

ภาคผนวกที่ 3

รายงานผลการวิเคราะห์คุณภาพสิ่งแวดล้อม

- | | |
|------------|------------------------|
| ลำดับที่ 1 | คุณภาพอากาศในบรรยากาศ |
| ลำดับที่ 2 | ความเร็วและทิศทางการลม |
| ลำดับที่ 3 | ระดับเสียงในบรรยากาศ |

ลำดับที่ 1

คุณภาพอากาศในบรรยากาศ



Ref. No. AR458(1)-AR458(7)/02/23

Report No. 2303/094

193/1/66

Ambient Air Quality Analysis Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Company : Hyundai Engineering Company
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling by : Thitinan Ruangram
S.P.S. Consulting Service Co., Ltd.

Sampling Date : 21-28 February 2023
Date Received : 1 March 2023
Date of Analysis : 1-13 March 2023
Date Reported : 15 March 2023

Parameter	Sampling Method	Analytical Method	Construction of a Production Control Building Area							Standard
			Project Area							
			February 2023							
			21-22	22-23	23-24	24-25	25-26	26-27	27-28	
Total Suspended Particulate (mg/m ³)	High Volume Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix B)	0.119	0.139	0.146	0.127	0.146	0.126	0.146	Less than 0.33
PM ₁₀ (mg/m ³)	High Volume PM ₁₀ Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix J)	0.046	0.059	0.075	0.059	0.064	0.052	0.069	Less than 0.12

Remark:

Standard = Ambient Air Quality Standards, Notification of the National Environment Board No. 24, B.E. 2547

Reported results refer to submitted samples only.

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----- End of Report -----



Ref. No. AR302(1)-AR302(7)/03/23

Report No. 2303/504

193/1/66

Ambient Air Quality Analysis Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Company : Hyundai Engineering Company
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling by : Thitinan Ruangram
S.P.S. Consulting Service Co., Ltd.

Sampling Date : 17-24 March 2023
Date Received : 27 March 2023
Date of Analysis : 27 March-5 April 2023
Date Reported : 10 April 2023

Parameter	Sampling Method	Analytical Method	New Cooling Tower Area							Standard
			March 2023							
			17-18	18-19	19-20	20-21	21-22	22-23	23-24	
Total Suspended Particulate (mg/m ³)	High Volume Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix B)	0.081	0.066	0.070	0.074	0.126	0.149	0.140	Less than 0.33
PM ₁₀ (mg/m ³)	High Volume PM ₁₀ Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix J)	0.034	0.030	0.029	0.032	0.068	0.073	0.063	Less than 0.12

Remark:

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Ref. No. AR311(1)-AR311(7)/03/23

Report No. 2303/531

193/1/66

Ambient Air Quality Analysis Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Company : Hyundai Engineering Company
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling by : Thitinan Ruangram
S.P.S. Consulting Service Co., Ltd.

Sampling Date : 18-25 March 2023
Date Received : 28 March 2023
Date of Analysis : 28 March-5 April 2023
Date Reported : 10 April 2023

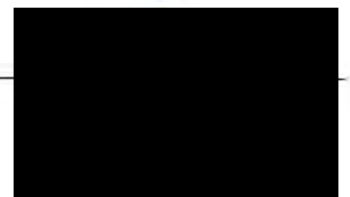
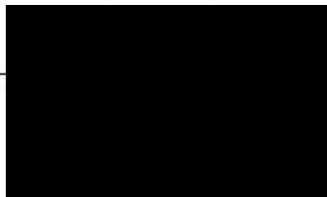
Parameter	Sampling Method	Analytical Method	Diesel Hydrotreating Unit Area							Standard
			Project Area							
			March 2023							
			18-19	19-20	20-21	21-22	22-23	23-24	24-25	
Total Suspended Particulate (mg/m ³)	High Volume Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix B)	0.082	0.074	0.094	0.097	0.171	0.084	0.167	Less than 0.33
PM ₁₀ (mg/m ³)	High Volume PM ₁₀ Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix J)	0.034	0.032	0.042	0.042	0.071	0.052	0.067	Less than 0.12

Remark:

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Ref. No. AR105(1)-AR105(7)/05/23

Report No. 2305/276

193/1/66

Ambient Air Quality Analysis Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Company : Hyundai Engineering Company
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling by : Thitinan Ruangram
S.P.S. Consulting Service Co., Ltd.

Sampling Date : 2-9 May 2023
Date Received : 10 May 2023
Date of Analysis : 10-19 May 2023
Date Reported : 23 May 2023

Parameter	Sampling Method	Analytical Method	Enclosed Ground Flare Area								Standard
			May 2023								
			2-3	3-4	4-5	5-6	6-7	7-8	8-9		
Total Suspended Particulate (mg/m ³)	High Volume Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix B)	0.057	0.035	0.028	0.033	0.049	0.059	0.041	Less than 0.33	
PM ₁₀ (mg/m ³)	High Volume PM ₁₀ Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix J)	0.033	0.027	0.012	0.015	0.021	0.027	0.037	Less than 0.12	

Remark:

Standard = Ambient Air Quality Standards, Notification of the National Environment Board No. 24, B.E. 2547

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 7 Soi Phaholyothin 24, Phaholyothin Rd., Jompol, Chaluchak, Bangkok 10900
 Tel : (662) 939-4370-72, Fax : (662) 513-4221, E-mail : sale@spscon.com, www.spscon.com

Ref. No. AR106(1)-AR106(7)/05/23

Report No. 2305/277

193/1/66

Ambient Air Quality Analysis Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
 Company : Hyundai Engineering Company
 Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
 Mueang, Rayong 21000
 Client Name/Address : Hyundai Engineering Company
 Sampling by : Thitinan Ruangram
 S.P.S. Consulting Service Co., Ltd.

Sampling Date : 2-9 May 2023
 Date Received : 10 May 2023
 Date of Analysis : 10-19 May 2023
 Date Reported : 23 May 2023

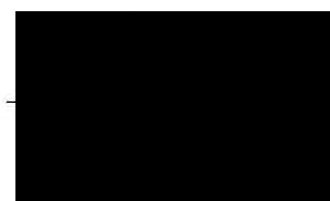
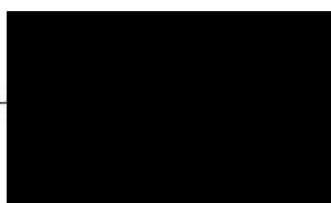
Parameter	Sampling Method	Analytical Method	Wastewater Treatment Plant 4 Area								Standard
			May 2023								
			2-3	3-4	4-5	5-6	6-7	7-8	8-9		
Total Suspended Particulate (mg/m ³)	High Volume Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix B)	0.035	0.040	0.030	0.032	0.034	0.033	0.036	Less than 0.33	
PM ₁₀ (mg/m ³)	High Volume PM ₁₀ Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix J)	0.015	0.018	0.014	0.013	0.016	0.015	0.017	Less than 0.12	

Remark:

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Ref. No. AR279(1)-AR279(7)/05/23

Report No. 2305/539

R-Pro-1091-2/2021

Ambient Air Quality Analysis Report

Project : HMU-2 Sampling Date : 11-18 May 2023
 Company : Wison Engineering Ltd. Date Received : 19 May 2023
 Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date of Analysis : 19-30 May 2023
 Mueang, Rayong 21000 Date Reported : 1 June 2023
 Client Name/Address : Wison Engineering Ltd.
 Sampling by : Atsawut Nirapai
 S.P.S. Consulting Service Co., Ltd.

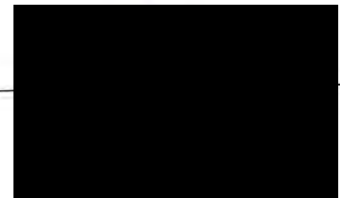
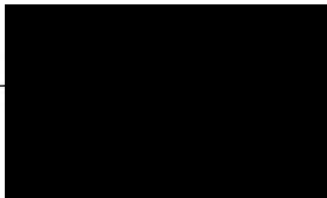
Parameter	Sampling Method	Analytical Method	Hydrogen Manufacturing Unit							Standard
			May 2023							
			11-12	12-13	13-14	14-15	15-16	16-17	17-18	
Total Suspended Particulate (mg/m ³)	High Volume Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix B)	0.018	0.033	0.024	0.028	0.043	0.037	0.031	Less than 0.33
PM ₁₀ (mg/m ³)	High Volume PM ₁₀ Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix J)	0.008	0.013	0.011	0.013	0.019	0.015	0.013	Less than 0.12

Remark:

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ลำดับที่ 2

ความเร็วและทิศทางการ



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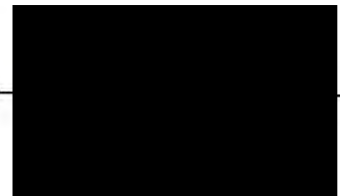
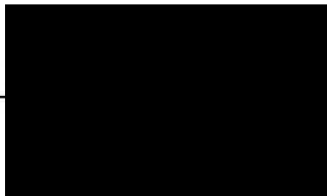
Wind Speed and Wind Direction Measurement Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 21-28 February 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 6 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Wind Speed Wind Direction	Construction of a Production Control Building Area				
	Percent of Wind Speed (%)				
	Light Air	Light Breeze	Gentle Breeze	Moderate Breeze	Fresh Breeze
	1-5 km/hr	6-11 km/hr	12-19 km/hr	20-28 km/hr	29-38 km/hr
N (349°-11°)	17.262	2.381	-	-	-
NNE (11°-34°)	8.930	2.381	-	-	-
NE (34°-56°)	6.548	1.786	-	-	-
ENE (56°-79°)	2.976	-	-	-	-
E (79°-102°)	1.190	-	-	-	-
ESE (102°-124°)	-	-	-	-	-
SE (124°-146°)	7.738	1.786	-	-	-
SSE (146°-169°)	7.738	-	-	-	-
S (169°-191°)	3.571	-	-	-	-
SSW (191°-214°)	2.381	1.190	-	-	-
SW (214°-236°)	1.190	-	-	-	-
WSW (236°-259°)	1.786	-	-	-	-
W (259°-281°)	-	-	-	-	-
WNW (281°-304°)	1.190	-	-	-	-
NW (304°-326°)	3.571	-	-	-	-
NNW (326°-349°)	23.215	1.190	-	-	-
Total	89.286	10.714	0.000	0.000	0.000
Calm (<1 km/hr)	0.000				

Reported results refer to measurement time only.

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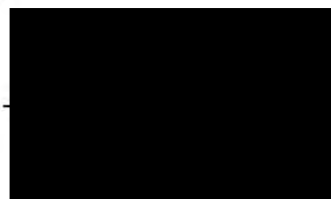
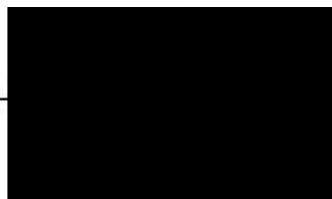
Wind Speed and Wind Direction Measurement Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 21-28 February 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 6 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Construction of a Production Control Building Area							
	February 2023							
	21-22		22-23		23-24		24-25	
	WS (km/hr)	WD	WS (km/hr)	WD	WS (km/hr)	WD	WS (km/hr)	WD
11:00-12:00	1.6	N	6.4	N	3.2	N	3.2	NNW
12:00-13:00	1.6	N	4.8	NNE	1.6	N	1.6	SSE
13:00-14:00	1.6	SE	4.8	NNE	1.6	N	3.2	S
14:00-15:00	4.8	SE	4.8	NNE	3.2	NE	3.2	SW
15:00-16:00	4.8	SSE	4.8	SE	3.2	NE	6.4	SE
16:00-17:00	3.2	SSW	6.4	SE	3.2	SE	3.2	SE
17:00-18:00	3.2	SW	6.4	SE	3.2	SE	1.6	SE
18:00-19:00	1.6	S	3.2	SSE	4.8	SE	1.6	SSE
19:00-20:00	1.6	SSE	1.6	SSE	4.8	SSE	1.6	SSE
20:00-21:00	1.6	SSW	1.6	SSE	4.8	SSE	3.2	SSW
21:00-22:00	1.6	SSE	3.2	ENE	3.2	SE	6.4	SSW
22:00-23:00	3.2	SSE	3.2	ENE	3.2	SE	6.4	SSW
23:00-00:00	3.2	SSE	4.8	NE	1.6	NNW	4.8	WSW
00:00-01:00	1.6	NNW	4.8	NE	1.6	NNW	4.8	WSW
01:00-02:00	1.6	NNW	1.6	NE	1.6	NNW	1.6	WNW
02:00-03:00	1.6	NNW	1.6	NNE	1.6	N	1.6	WNW
03:00-04:00	3.2	NW	3.2	NNE	1.6	N	1.6	N
04:00-05:00	3.2	NW	3.2	NNE	4.8	NW	3.2	N
05:00-06:00	1.6	NNW	4.8	NNE	4.8	NW	3.2	N
06:00-07:00	1.6	N	4.8	NNE	3.2	NW	3.2	NNW
07:00-08:00	3.2	N	4.8	NNW	3.2	NW	1.6	NNW
08:00-09:00	3.2	NNE	4.8	NNW	1.6	NNW	1.6	N
09:00-10:00	6.4	N	3.2	NNW	1.6	NNW	1.6	N
10:00-11:00	6.4	N	3.2	NNW	3.2	NNW	1.6	N
Temperature Average (°C)	29.5		28.9		29.0		29.3	
Barometric Pressure Average (mmHg)	758.05		757.87		757.17		757.68	
Sky Condition	Fair		Fair		Fair		Fair	

Reported results refer to measurement time only.

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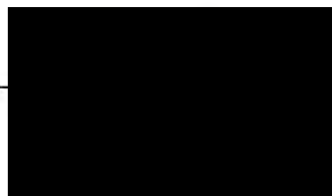
Wind Speed and Wind Direction Measurement Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 21-28 February 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 6 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Construction of a Production Control Building Area					
	February 2023					
	25-26		26-27		27-28	
	WS (km/hr)	WD	WS (km/hr)	WD	WS (km/hr)	WD
11:00-12:00	1.6	NNW	3.2	N	1.6	NNW
12:00-13:00	3.2	NNW	3.2	NNW	1.6	NNW
13:00-14:00	3.2	NNW	3.2	NNW	3.2	NNW
14:00-15:00	4.8	NNW	4.8	N	3.2	WSW
15:00-16:00	3.2	NNW	4.8	N	3.2	S
16:00-17:00	3.2	N	4.8	NNW	3.2	S
17:00-18:00	3.2	N	4.8	NNW	3.2	SSW
18:00-19:00	4.8	N	3.2	NNW	1.6	S
19:00-20:00	6.4	NNW	3.2	NNW	1.6	S
20:00-21:00	6.4	NNW	1.6	N	3.2	SE
21:00-22:00	4.8	NE	1.6	N	3.2	SE
22:00-23:00	4.8	NE	3.2	N	1.6	SE
23:00-00:00	4.8	NNE	1.6	NNW	1.6	E
00:00-01:00	6.4	NNE	1.6	NNW	3.2	E
01:00-02:00	6.4	NNE	1.6	NNW	3.2	ENE
02:00-03:00	3.2	NNE	3.2	N	3.2	ENE
03:00-04:00	3.2	N	3.2	NNW	4.8	NNE
04:00-05:00	1.6	NNW	3.2	NE	4.8	NNE
05:00-06:00	1.6	NE	4.8	NNE	4.8	NNE
06:00-07:00	1.6	N	4.8	NE	6.4	NNE
07:00-08:00	1.6	NNW	6.4	N	6.4	NNE
08:00-09:00	3.2	NNW	6.4	NE	6.4	NE
09:00-10:00	3.2	NNW	6.4	NE	4.8	ENE
10:00-11:00	3.2	N	1.6	N	3.2	NE
Temperature Average (°C)	29.6		28.4		28.0	
Barometric Pressure Average (mmHg)	758.07		759.03		758.25	
Sky Condition	Fair		Fair		Fair	

Reported results refer to measurement time only.

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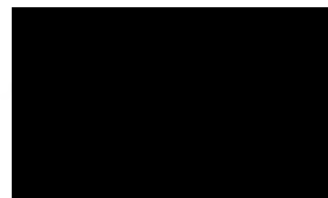
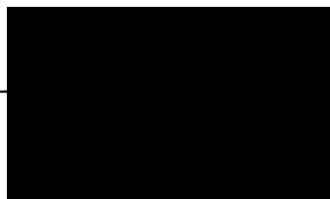
Wind Speed and Wind Direction Measurement Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 17-24 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Wind Speed Wind Direction	New Cooling Tower Area				
	Percent of Wind Speed (%)				
	Light Air	Light Breeze	Gentle Breeze	Moderate Breeze	Fresh Breeze
	1-5 km/hr	6-11 km/hr	12-19 km/hr	20-28 km/hr	29-38 km/hr
N (349°-11°)	-	-	-	-	-
NNE (11°-34°)	-	-	-	-	-
NE (34°-56°)	-	-	-	-	-
ENE (56°-79°)	-	-	-	-	-
E (79°-102°)	-	12.500	-	-	-
ESE (102°-124°)	-	16.667	-	-	-
SE (124°-146°)	-	-	-	-	-
SSE (146°-169°)	-	8.333	-	-	-
S (169°-191°)	-	-	-	-	-
SSW (191°-214°)	-	4.167	8.333	-	-
SW (214°-236°)	-	29.166	4.167	-	-
WSW (236°-259°)	-	16.667	-	-	-
W (259°-281°)	-	-	-	-	-
WNW (281°-304°)	-	-	-	-	-
NW (304°-326°)	-	-	-	-	-
NNW (326°-349°)	-	-	-	-	-
Total	0.000	87.500	12.500	0.000	0.000
Calm (<1 km/hr)	0.000				

Reported results refer to measurement time only.

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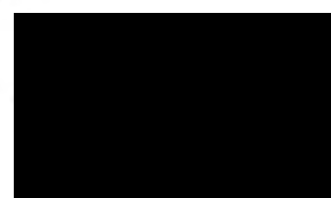
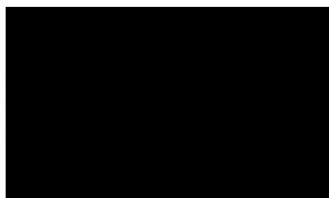
Wind Speed and Wind Direction Measurement Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area							
	March 2023							
	17-18		18-19		19-20		20-21	
	WS (km/hr)	WD	WS (km/hr)	WD	WS (km/hr)	WD	WS (km/hr)	WD
13:00-14:00	11.3	SW	12.9	SW	11.3	SW	12.9	SW
14:00-15:00	11.3	SW	11.3	SW	12.9	SW	14.5	SSW
15:00-16:00	12.9	SW	11.3	SW	11.3	SSW	14.5	SSW
16:00-17:00	12.9	SSW	12.9	SW	12.9	SSW	14.5	SSW
17:00-18:00	12.9	SSW	11.3	WSW	14.5	SSW	12.9	SW
18:00-19:00	11.3	SSW	11.3	WSW	12.9	SSW	11.3	SW
19:00-20:00	11.3	WSW	9.7	WSW	12.9	SW	9.7	SW
20:00-21:00	9.7	WSW	8.0	WSW	11.3	SW	9.7	SW
21:00-22:00	9.7	WSW	9.7	SW	11.3	SW	8.0	SSE
22:00-23:00	9.7	WSW	9.7	SW	11.3	SW	8.0	SSE
23:00-00:00	8.0	SW	11.3	SW	9.7	SW	9.7	SSE
00:00-01:00	8.0	SW	9.7	WSW	9.7	WSW	8.0	SSE
01:00-02:00	8.0	SW	9.7	WSW	9.7	WSW	9.7	SSW
02:00-03:00	8.0	SW	9.7	SW	8.0	WSW	11.3	SSW
03:00-04:00	9.7	SSE	11.3	SW	8.0	WSW	9.7	SSW
04:00-05:00	8.0	SSE	12.9	SW	9.7	SW	6.4	SW
05:00-06:00	8.0	ESE	11.3	SW	8.0	SW	4.8	SSW
06:00-07:00	6.4	E	9.7	SSE	8.0	WSW	6.4	SSE
07:00-08:00	6.4	ESE	9.7	SE	6.4	W	8.0	SSE
08:00-09:00	6.4	ESE	8.0	SE	8.0	W	6.4	SSE
09:00-10:00	8.0	E	8.0	E	9.7	W	9.7	SSE
10:00-11:00	9.7	E	8.0	E	9.7	SW	11.3	SSE
11:00-12:00	8.0	ESE	11.3	SSE	11.3	SW	11.3	SSW
12:00-13:00	9.7	SW	12.9	SSE	12.9	SW	9.7	SSW
Temperature Average (°C)	29.8		29.8		29.9		29.9	
Barometric Pressure Average (mmHg)	759.28		758.49		758.19		757.92	
Sky Condition	Fair		Fair		Fair		Fair	

Reported results refer to measurement time only.

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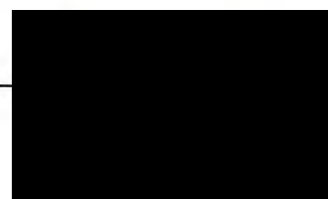
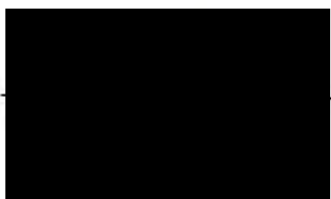
Wind Speed and Wind Direction Measurement Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 17-24 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	New Cooling Tower Area					
	March 2023					
	21-22		22-23		23-24	
	WS (km/hr)	WD	WS (km/hr)	WD	WS (km/hr)	WD
13:00-14:00	12.9	S	12.9	SW	11.3	WSW
14:00-15:00	14.5	S	12.9	SW	11.3	WSW
15:00-16:00	14.5	SW	12.9	SW	11.3	SW
16:00-17:00	12.9	SW	12.9	SW	9.7	SW
17:00-18:00	12.9	SW	11.3	SSE	9.7	SW
18:00-19:00	11.3	SW	11.3	SSE	8.0	SSE
19:00-20:00	9.7	SE	8.0	SSE	9.7	SSE
20:00-21:00	12.9	SE	8.0	SSE	9.7	SSE
21:00-22:00	11.3	SE	9.7	E	8.0	E
22:00-23:00	8.0	SW	11.3	E	11.3	E
23:00-00:00	8.0	SW	9.7	E	11.3	E
00:00-01:00	8.0	SE	9.7	E	8.0	E
01:00-02:00	6.4	SE	9.7	ESE	11.3	SW
02:00-03:00	8.0	SSW	11.3	ESE	9.7	SW
03:00-04:00	9.7	SSW	9.7	ESE	6.4	SW
04:00-05:00	9.7	SSW	9.7	ESE	6.4	SSE
05:00-06:00	9.7	SW	6.4	S	6.4	SSE
06:00-07:00	8.0	SW	6.4	S	6.4	ESE
07:00-08:00	6.4	SW	6.4	SSW	9.7	ESE
08:00-09:00	6.4	SW	6.4	SSW	9.7	SSE
09:00-10:00	8.0	WSW	8.0	SW	9.7	SSE
10:00-11:00	8.0	WSW	9.7	SW	11.3	SSE
11:00-12:00	11.3	WSW	11.3	WSW	11.3	E
12:00-13:00	11.3	WSW	12.9	WSW	12.9	E
Temperature Average (°C)	30.0		30.6		30.5	
Barometric Pressure Average (mmHg)	757.38		756.90		757.26	
Sky Condition	Fair		Fair		Fair	

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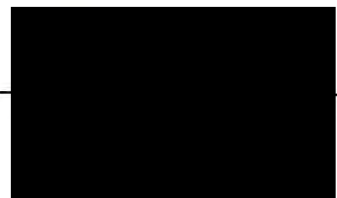
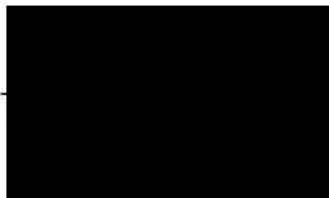
Wind Speed and Wind Direction Measurement Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 18-25 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Wind Speed Wind Direction	Diesel Hydrotreating Unit Area				
	Percent of Wind Speed (%)				
	Light Air	Light Breeze	Gentle Breeze	Moderate Breeze	Fresh Breeze
	1-5 km/hr	6-11 km/hr	12-19 km/hr	20-28 km/hr	29-38 km/hr
N (349°-11°)	-	-	-	-	-
NNE (11°-34°)	-	-	-	-	-
NE (34°-56°)	-	-	-	-	-
ENE (56°-79°)	-	-	-	-	-
E (79°-102°)	-	-	-	-	-
ESE (102°-124°)	8.333	-	-	-	-
SE (124°-146°)	8.333	-	-	-	-
SSE (146°-169°)	16.667	-	-	-	-
S (169°-191°)	4.167	-	-	-	-
SSW (191°-214°)	-	-	-	-	-
SW (214°-236°)	25.000	-	-	-	-
WSW (236°-259°)	29.167	8.333	-	-	-
W (259°-281°)	-	-	-	-	-
WNW (281°-304°)	-	-	-	-	-
NW (304°-326°)	-	-	-	-	-
NNW (326°-349°)	-	-	-	-	-
Total	91.667	8.333	0.000	0.000	0.000
Calm (<1 km/hr)	0.000				

Reported results refer to measurement time only.

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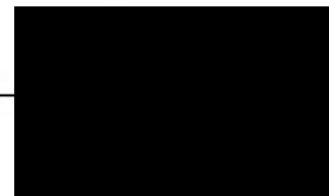
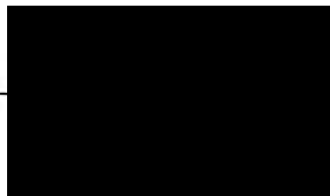
Wind Speed and Wind Direction Measurement Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 18-25 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Diesel Hydrotreating Unit Area							
	March 2023							
	18-19		19-20		20-21		21-22	
	WS (km/hr)	WD	WS (km/hr)	WD	WS (km/hr)	WD	WS (km/hr)	WD
08:30-09:30	3.2	SSE	3.2	SE	3.2	WSW	4.8	WSW
09:30-10:30	4.8	SSE	4.8	ESE	4.8	WSW	6.4	WSW
10:30-11:30	4.8	SSE	3.2	ESE	4.8	SW	6.4	WSW
11:30-12:30	3.2	SSE	3.2	SE	4.8	WSW	6.4	WSW
12:30-13:30	4.8	SW	3.2	SSW	4.8	WSW	4.8	WSW
13:30-14:30	4.8	SW	4.8	SW	6.4	S	4.8	ESE
14:30-15:30	4.8	WSW	4.8	SW	6.4	S	6.4	ESE
15:30-16:30	4.8	SW	4.8	SW	6.4	SSE	6.4	ESE
16:30-17:30	6.4	WSW	4.8	SSW	6.4	SSE	4.8	ESE
17:30-18:30	6.4	WSW	6.4	SSW	4.8	SSE	3.2	SE
18:30-19:30	4.8	WSW	6.4	SSW	3.2	ESE	4.8	SE
19:30-20:30	4.8	SW	6.4	SSW	3.2	ESE	4.8	ESE
20:30-21:30	4.8	SW	6.4	WSW	3.2	ESE	4.8	ESE
21:30-22:30	4.8	WSW	6.4	WSW	4.8	SSE	4.8	ESE
22:30-23:30	3.2	WSW	4.8	WSW	4.8	SSE	6.4	WSW
23:30-00:30	3.2	S	4.8	S	3.2	ESE	6.4	WSW
00:30-01:30	1.6	SW	4.8	S	3.2	ESE	6.4	SSE
01:30-02:30	3.2	ESE	6.4	WSW	3.2	ESE	3.2	SE
02:30-03:30	1.6	ESE	6.4	WSW	4.8	ESE	3.2	SE
03:30-04:30	3.2	WSW	6.4	WSW	3.2	SSW	3.2	SSW
04:30-05:30	4.8	WSW	6.4	WSW	4.8	SSW	4.8	SW
05:30-06:30	3.2	WSW	4.8	SSW	4.8	SW	4.8	WSW
06:30-07:30	3.2	SE	4.8	SSW	3.2	SW	4.8	WSW
07:30-08:30	3.2	SE	3.2	SSW	4.8	SW	4.8	WSW
Temperature Average (°C)	31.6		31.6		30.9		31.5	
Barometric Pressure Average (mmHg)	758.75		758.39		757.94		757.47	
Sky Condition	Fair		Fair		Fair		Fair	

Reported results refer to measurement time only.

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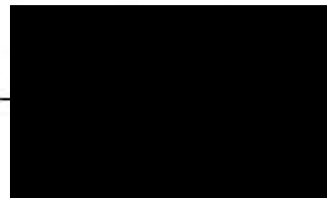
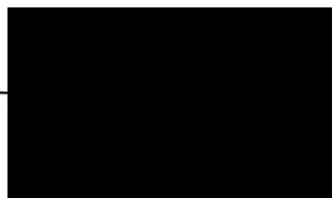
Wind Speed and Wind Direction Measurement Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 18-25 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Diesel Hydrotreating Unit Area					
	March 2023					
	22-23		23-24		24-25	
	WS (km/hr)	WD	WS (km/hr)	WD	WS (km/hr)	WD
08:30-09:30	4.8	WSW	4.8	ESE	4.8	ESE
09:30-10:30	4.8	WSW	4.8	ESE	3.2	ESE
10:30-11:30	4.8	WSW	4.8	SE	4.8	ESE
11:30-12:30	4.8	SSE	3.2	SE	4.8	SE
12:30-13:30	3.2	SSE	3.2	ESE	3.2	SE
13:30-14:30	3.2	ESE	4.8	ESE	3.2	SE
14:30-15:30	4.8	ESE	4.8	SSW	3.2	SE
15:30-16:30	4.8	ESE	4.8	SSW	4.8	ESE
16:30-17:30	6.4	ESE	3.2	WSW	4.8	ESE
17:30-18:30	4.8	SE	3.2	WSW	3.2	ESE
18:30-19:30	4.8	SE	3.2	SSW	3.2	ESE
19:30-20:30	1.6	SE	4.8	SSW	3.2	SE
20:30-21:30	1.6	SW	4.8	SSE	4.8	SE
21:30-22:30	3.2	WSW	4.8	SSE	4.8	SE
22:30-23:30	3.2	SE	6.4	SE	4.8	ESE
23:30-00:30	3.2	ESE	6.4	SE	6.4	ESE
00:30-01:30	3.2	ESE	6.4	SE	6.4	ESE
01:30-02:30	4.8	ESE	4.8	SE	4.8	ESE
02:30-03:30	4.8	ESE	4.8	SE	4.8	E
03:30-04:30	4.8	SE	4.8	SE	4.8	E
04:30-05:30	4.8	SE	4.8	ESE	6.4	ENE
05:30-06:30	4.8	SE	3.2	ESE	6.4	NE
06:30-07:30	4.8	ESE	3.2	ESE	4.8	ENE
07:30-08:30	3.2	SE	4.8	ESE	3.2	NE
Temperature Average (°C)	32.4		31.7		31.3	
Barometric Pressure Average (mmHg)	756.84		757.48		758.51	
Sky Condition	Fair		Fair		Fair	

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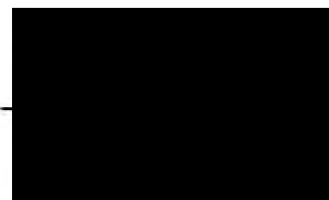
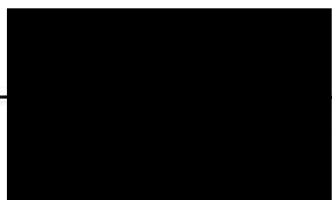
Wind Speed and Wind Direction Measurement Report

Project : Ultra Clean Flue (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Chpeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Wind Speed Wind Direction	Enclosed Ground Flare Area				
	Percent of Wind Speed (%)				
	Light Air	Light Breeze	Gentle Breeze	Moderate Breeze	Fresh Breeze
	0.3-1.6 m/s (1-5 km/hr)	1.7-3.3 m/s (6-11 km/hr)	3.4-5.5 m/s (12-19 km/hr)	5.6-8.0 m/s (20-28 km/hr)	8.1-10.8 m/s (29-38 km/hr)
N (349°-11°)	-	-	-	-	-
NNE (11°-34°)	-	-	-	-	-
NE (34°-56°)	1.786	0.595	-	-	-
ENE (56°-79°)	0.595	-	-	-	-
E (79°-102°)	-	-	-	-	-
ESE (102°-124°)	-	-	-	-	-
SE (124°-146°)	4.762	7.143	-	-	-
SSE (146°-169°)	19.643	18.453	-	-	-
S (169°-191°)	19.643	7.738	-	-	-
SSW (191°-214°)	7.738	1.786	-	-	-
SW (214°-236°)	6.548	1.190	-	-	-
WSW (236°-259°)	-	-	-	-	-
W (259°-281°)	-	-	-	-	-
WNW (281°-304°)	1.190	-	-	-	-
NW (304°-326°)	-	-	-	-	-
NNW (326°-349°)	1.190	-	-	-	-
Total	63.095	36.905	0.000	0.000	0.000
Calm <0.3 m/s (<1 km/hr)	0.000				

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.





RY059/06/66

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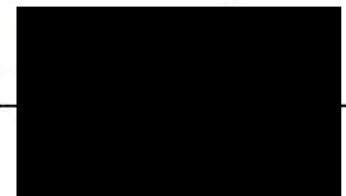
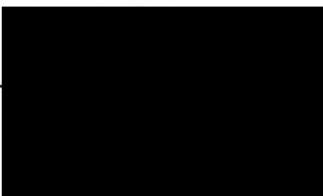
Wind Speed and Wind Direction Measurement Report

Project : Ultra Clean Flue (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area														
	May 2023														
	2-3			3-4			4-5			5-6			6-7		
	WS		WD	WS		WD	WS		WD	WS		WD	WS		WD
	m/s	km/hr		m/s	km/hr		m/s	km/hr		m/s	km/hr		m/s	km/hr	
13:00-14:00	2.2	8.0	SE	2.2	8.0	SW	2.2	8.0	S	1.8	6.4	S	1.8	6.4	SSW
14:00-15:00	1.8	6.4	SE	1.8	6.4	S	2.2	8.0	SSE	1.8	6.4	SSE	2.2	8.0	S
15:00-16:00	1.3	4.8	SSE	1.8	6.4	SW	1.8	6.4	S	1.8	6.4	S	2.2	8.0	SSE
16:00-17:00	1.3	4.8	S	1.8	6.4	SSE	1.8	6.4	SSE	2.2	8.0	S	1.8	6.4	S
17:00-18:00	1.3	4.8	S	1.3	4.8	SSE	1.8	6.4	SSW	1.8	6.4	SE	1.3	4.8	SE
18:00-19:00	0.9	3.2	S	1.3	4.8	SSE	1.8	6.4	SSE	1.3	4.8	SE	1.8	6.4	SE
19:00-20:00	0.4	1.6	SSW	0.9	3.2	SSE	1.3	4.8	SSE	1.3	4.8	SE	1.8	6.4	SSE
20:00-21:00	0.9	3.2	SW	0.4	1.6	SSE	0.9	3.2	SSE	0.9	3.2	SE	1.3	4.8	SSE
21:00-22:00	0.4	1.6	SSW	0.4	1.6	SSE	0.9	3.2	S	0.4	1.6	S	1.3	4.8	SE
22:00-23:00	0.4	1.6	SW	0.4	1.6	SSE	0.9	3.2	S	0.4	1.6	S	0.9	3.2	SSE
23:00-00:00	0.4	1.6	SW	0.4	1.6	SSE	0.9	3.2	S	0.9	3.2	S	0.4	1.6	SSE
00:00-01:00	0.4	1.6	SW	0.9	3.2	S	1.3	4.8	S	0.9	3.2	S	1.3	4.8	SSE
01:00-02:00	0.9	3.2	SW	0.4	1.6	S	1.3	4.8	S	1.3	4.8	S	1.8	6.4	SSE
02:00-03:00	0.9	3.2	SW	0.9	3.2	SSE	1.3	4.8	SSW	1.3	4.8	S	2.2	8.0	S
03:00-04:00	0.4	1.6	SW	0.4	1.6	SSE	0.9	3.2	SSW	1.3	4.8	S	2.2	8.0	SSE
04:00-05:00	0.4	1.6	SW	0.4	1.6	S	1.3	4.8	SSW	1.3	4.8	SSE	2.2	8.0	SSE
05:00-06:00	0.4	1.6	WNW	0.4	1.6	S	0.9	3.2	S	1.8	6.4	SSE	1.8	6.4	SSE
06:00-07:00	0.9	3.2	WNW	0.9	3.2	S	0.9	3.2	SSW	0.9	3.2	SSW	1.3	4.8	SSE
07:00-08:00	0.4	1.6	NNW	0.4	1.6	SSW	0.9	3.2	S	0.9	3.2	S	0.9	3.2	SW
08:00-09:00	0.4	1.6	NNW	0.9	3.2	SSE	1.3	4.8	SSW	0.9	3.2	S	0.9	3.2	SSW
09:00-10:00	1.3	4.8	SSW	1.3	4.8	SSE	1.8	6.4	SSE	1.3	4.8	SSW	1.3	4.8	SSW
10:00-11:00	0.4	1.6	SSE	1.3	4.8	SSE	2.2	8.0	SSE	1.3	4.8	S	1.3	4.8	SSE
11:00-12:00	0.9	3.2	SW	1.8	6.4	SSE	1.8	6.4	S	2.2	8.0	S	2.2	8.0	SSE
12:00-13:00	1.8	6.4	SSE	2.2	8.0	SSE	2.2	8.0	SSE	2.2	8.0	SSW	2.2	8.0	S
Temperature Average (°C)	30.7			30.8			31.6			32.2			32.5		
Barometric Pressure Average (mmHg)	756.77			756.89			757.04			757.14			757.28		
Sky Condition	Fair			Fair			Fair			Fair			Fair		

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.





บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด
S.P.S. CONSULTING SERVICE CO., LTD.
7 ซอยพหลโยธิน 24 ถนนพหลโยธิน แขวงจอมพล เขตจตุจักร กรุงเทพฯ 10900
7 Soi Phaholyothin 24, Phaholyothin Rd., Jompol, Chatuchak, Bangkok 10900
Tel : (662) 939-4370-72, Fax : (662) 513-4221, E-mail : sale@spscon.com., www.spscon.com

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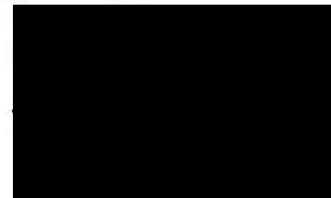
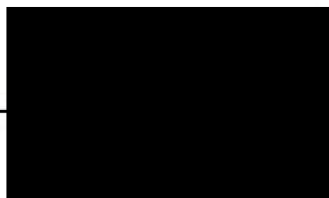
Wind Speed and Wind Direction Measurement Report

Project : Ultra Clean Flue (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area					
	May 2023					
	7-8			8-9		
	WS		WD	WS		WD
	m/s	km/hr		m/s	km/hr	
13:00-14:00	2.2	8.0	SSE	2.2	8.0	SSE
14:00-15:00	1.8	6.4	SSE	1.8	6.4	S
15:00-16:00	2.2	8.0	SSE	1.3	4.8	SE
16:00-17:00	1.8	6.4	SSE	1.3	4.8	SSE
17:00-18:00	1.3	4.8	S	0.9	3.2	S
18:00-19:00	1.8	6.4	SE	0.9	3.2	SE
19:00-20:00	1.3	4.8	SE	1.3	4.8	SSE
20:00-21:00	1.8	6.4	SE	0.9	3.2	SSE
21:00-22:00	1.8	6.4	SSE	0.9	3.2	SSE
22:00-23:00	1.8	6.4	SE	1.3	4.8	NE
23:00-00:00	1.3	4.8	SSE	2.2	8.0	SE
00:00-01:00	1.8	6.4	SE	2.2	8.0	SE
01:00-02:00	0.9	3.2	S	1.8	6.4	SE
02:00-03:00	0.9	3.2	S	0.9	3.2	ENE
03:00-04:00	1.3	4.8	S	0.9	3.2	SSE
04:00-05:00	1.3	4.8	S	2.2	8.0	NE
05:00-06:00	1.3	4.8	S	1.3	4.8	NE
06:00-07:00	0.9	3.2	S	0.9	3.2	NE
07:00-08:00	1.3	4.8	SSE	0.4	1.6	SSE
08:00-09:00	1.3	4.8	SW	0.9	3.2	SSE
09:00-10:00	2.2	8.0	SSE	1.8	6.4	SSE
10:00-11:00	1.8	6.4	SSE	1.3	4.8	SSE
11:00-12:00	1.8	6.4	SSE	1.8	6.4	SSE
12:00-13:00	1.8	6.4	SSE	2.2	8.0	SE
Temperature Average (°C)	32.3			31.6		
Barometric Pressure Average (mmHg)	757.20			757.07		
Sky Condition	Fair			Fair		

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.



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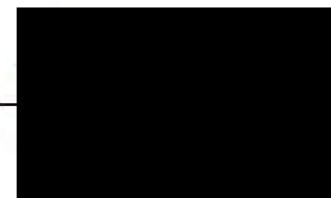
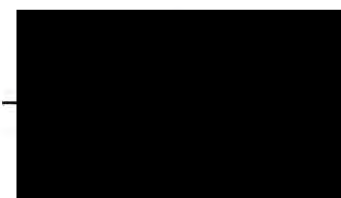
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Wind Speed and Wind Direction Measurement Report

Project : Ultra Clean Flue (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Wind Speed Wind Direction	Wastewater Treatment Plant 4 Area				
	Percent of Wind Speed (%)				
	Light Air	Light Breeze	Gentle Breeze	Moderate Breeze	Fresh Breeze
	0.3-1.6 m/s (1-5 km/hr)	1.7-3.3 m/s (6-11 km/hr)	3.4-5.5 m/s (12-19 km/hr)	5.6-8.0 m/s (20-28 km/hr)	8.1-10.8 m/s (29-38 km/hr)
N (349°-11°)	-	-	-	-	-
NNE (11°-34°)	-	-	-	-	-
NE (34°-56°)	-	-	-	-	-
ENE (56°-79°)	-	-	-	-	-
E (79°-102°)	-	-	-	-	-
ESE (102°-124°)	-	-	-	-	-
SE (124°-146°)	-	-	-	-	-
SSE (146°-169°)	8.929	2.381	-	-	-
S (169°-191°)	5.952	1.786	-	-	-
SSW (191°-214°)	25.595	2.976	-	-	-
SW (214°-236°)	22.025	3.571	-	-	-
WSW (236°-259°)	2.381	-	-	-	-
W (259°-281°)	-	-	-	-	-
WNW (281°-304°)	5.952	-	-	-	-
NW (304°-326°)	18.452	-	-	-	-
NNW (326°-349°)	-	-	-	-	-
Total	89.286	10.714	0.000	0.000	0.000
Calm <0.3 m/s (<1 km/hr)	0.000				

Reported results refer to measurement time only.
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Wind Speed and Wind Direction Measurement Report

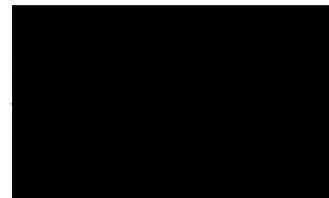
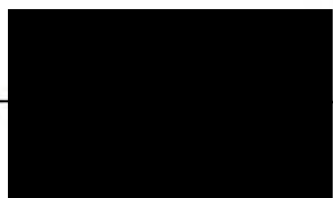
Project : Ultra Clean Flue (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area														
	May 2023														
	2-3			3-4			4-5			5-6			6-7		
	WS		WD	WS		WD	WS		WD	WS		WD	WS		WD
	m/s	km/hr		m/s	km/hr		m/s	km/hr		m/s	km/hr		m/s	km/hr	
15:00-16:00	0.9	3.2	SW	0.4	1.6	SSE	0.9	3.2	SSE	0.9	3.2	WNW	0.9	3.2	SW
16:00-17:00	1.3	4.8	SW	0.9	3.2	SW	0.9	3.2	SSW	1.3	4.8	WNW	0.9	3.2	SSW
17:00-18:00	1.3	4.8	SW	0.9	3.2	SW	0.4	1.6	NW	1.8	6.4	SW	1.3	4.8	SSW
18:00-19:00	0.9	3.2	S	0.9	3.2	NW	0.9	3.2	SSW	1.8	6.4	SSW	1.8	6.4	SSW
19:00-20:00	0.9	3.2	SW	0.9	3.2	SSW	0.9	3.2	SSW	1.8	6.4	SSE	1.8	6.4	SSW
20:00-21:00	0.4	1.6	SSW	1.3	4.8	SW	0.9	3.2	SW	1.8	6.4	SSW	1.8	6.4	S
21:00-22:00	0.4	1.6	SSW	0.9	3.2	NW	1.3	4.8	SSW	1.3	4.8	WSW	1.8	6.4	SSE
22:00-23:00	0.4	1.6	SSW	1.3	4.8	NW	0.9	3.2	SW	1.3	4.8	WNW	1.3	4.8	S
23:00-00:00	0.9	3.2	SSW	0.9	3.2	NW	0.9	3.2	SSW	1.3	4.8	WNW	1.3	4.8	SSW
00:00-01:00	0.4	1.6	SSW	0.9	3.2	SW	0.9	3.2	SSW	0.9	3.2	WNW	0.9	3.2	SSW
01:00-02:00	0.4	1.6	SW	0.9	3.2	SW	0.9	3.2	SW	0.9	3.2	NW	0.9	3.2	S
02:00-03:00	0.4	1.6	SSW	1.3	4.8	SSW	0.4	1.6	NW	0.4	1.6	NW	0.9	3.2	S
03:00-04:00	0.9	3.2	SW	0.9	3.2	SSW	0.4	1.6	NW	0.9	3.2	SW	1.3	4.8	S
04:00-05:00	0.4	1.6	NW	0.9	3.2	SSW	0.4	1.6	NW	0.9	3.2	SW	0.9	3.2	SW
05:00-06:00	0.4	1.6	NW	0.9	3.2	SSW	0.4	1.6	NW	0.9	3.2	SSW	0.9	3.2	SSE
06:00-07:00	0.4	1.6	WNW	0.4	1.6	SW	0.9	3.2	NW	0.4	1.6	NW	0.9	3.2	SSW
07:00-08:00	0.9	3.2	WNW	0.4	1.6	SSW	0.4	1.6	SW	0.4	1.6	NW	0.4	1.6	S
08:00-09:00	0.4	1.6	NW	0.4	1.6	SSW	0.4	1.6	WSW	0.4	1.6	NW	0.4	1.6	WNW
09:00-10:00	0.9	3.2	NW	0.9	3.2	SSW	0.9	3.2	S	0.9	3.2	NW	0.4	1.6	WNW
10:00-11:00	0.9	3.2	SW	0.9	3.2	SSE	0.9	3.2	SSW	0.4	1.6	NW	0.4	1.6	WSW
11:00-12:00	0.4	1.6	WSW	0.9	3.2	SSE	0.9	3.2	NW	0.4	1.6	SW	0.9	3.2	SW
12:00-13:00	0.4	1.6	SW	0.4	1.6	SW	0.4	1.6	SW	0.9	3.2	NW	0.9	3.2	SSE
13:00-14:00	0.4	1.6	SSW	0.9	3.2	SW	0.9	3.2	WNW	0.4	1.6	NW	0.9	3.2	SSW
14:00-15:00	0.9	3.2	SSW	0.9	3.2	SW	0.9	3.2	SW	0.9	3.2	NW	1.3	4.8	SSE
Temperature Average (°C)	30.3			31.1			31.9			32.5			32.7		
Barometric Pressure Average (mmHg)	756.68			756.91			757.08			757.23			757.34		
Sky Condition	Fair			Fair			Fair			Fair			Fair		

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.





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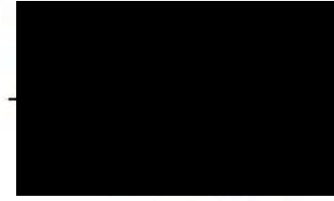
Wind Speed and Wind Direction Measurement Report

Project : Ultra Clean Flue (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Wastewater Treatment Plant 4 Area					
	May 2023					
	7-8			8-9		
	WS		WD	WS		WD
	m/s	km/hr		m/s	km/hr	
15:00-16:00	0.9	3.2	SSW	1.8	6.4	SW
16:00-17:00	0.9	3.2	SSW	1.3	4.8	SSE
17:00-18:00	1.3	4.8	SW	1.3	4.8	SW
18:00-19:00	1.8	6.4	SW	1.3	4.8	SSE
19:00-20:00	1.8	6.4	SW	0.4	1.6	SSE
20:00-21:00	2.2	8.0	SSW	0.9	3.2	SSE
21:00-22:00	1.8	6.4	S	0.4	1.6	SSW
22:00-23:00	1.8	6.4	S	0.4	1.6	SSE
23:00-00:00	1.3	4.8	S	0.4	1.6	SW
00:00-01:00	1.3	4.8	SSW	0.9	3.2	SSW
01:00-02:00	1.3	4.8	SSW	0.4	1.6	SW
02:00-03:00	0.9	3.2	SW	0.4	1.6	NW
03:00-04:00	0.9	3.2	SSW	0.9	3.2	NW
04:00-05:00	0.9	3.2	SSW	0.4	1.6	NW
05:00-06:00	0.9	3.2	SSW	0.4	1.6	NW
06:00-07:00	1.3	4.8	SSW	0.4	1.6	NW
07:00-08:00	0.9	3.2	SW	0.9	3.2	NW
08:00-09:00	0.9	3.2	SSE	0.4	1.6	SW
09:00-10:00	0.9	3.2	SSW	0.4	1.6	SSE
10:00-11:00	1.3	4.8	S	1.3	4.8	SSW
11:00-12:00	0.9	3.2	SSE	1.8	6.4	SSE
12:00-13:00	0.9	3.2	S	1.8	6.4	SSE
13:00-14:00	1.3	4.8	SSW	1.8	6.4	SW
14:00-15:00	0.9	3.2	SW	1.8	6.4	SW
Temperature Average (°C)	32.8			32.1		
Barometric Pressure Average (mmHg)	757.40			757.17		
Sky Condition	Fair			Fair		

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.





RY061/05/66

R-Pro-1091-2/2021

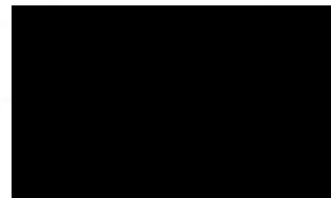
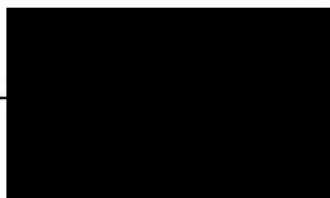
Wind Speed and Wind Direction Measurement Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Wind Speed Wind Direction	Project Area				
	Percent of Wind Speed (%)				
	Light Air	Light Breeze	Gentle Breeze	Moderate Breeze	Fresh Breeze
	0.3-1.6 m/s (1-5 km/hr)	1.7-3.3 m/s (6-11 km/hr)	3.4-5.5 m/s (12-19 km/hr)	5.6-8.0 m/s (20-28 km/hr)	8.1-10.8 m/s (29-38 km/hr)
N (349°-11°)	-	-	-	-	-
NNE (11°-34°)	1.786	-	-	-	-
NE (34°-56°)	21.429	2.381	-	-	-
ENE (56°-79°)	21.429	4.167	-	-	-
E (79°-102°)	3.571	0.595	-	-	-
ESE (102°-124°)	0.595	-	-	-	-
SE (124°-146°)	-	-	-	-	-
SSE (146°-169°)	3.571	1.190	-	-	-
S (169°-191°)	10.714	6.548	-	-	-
SSW (191°-214°)	11.310	-	-	-	-
SW (214°-236°)	7.143	1.190	-	-	-
WSW (236°-259°)	1.786	-	-	-	-
W (259°-281°)	0.595	-	-	-	-
WNW (281°-304°)	-	-	-	-	-
NW (304°-326°)	-	-	-	-	-
NNW (326°-349°)	-	-	-	-	-
Total	83.929	16.071	0.000	0.000	0.000
Calm <0.3 m/s (<1 km/hr)	0.000				

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.





RY061/05/66

R-Pro-1091-2/2021

Wind Speed and Wind Direction Measurement Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Project Area														
	May 2023														
	11-12			12-13			13-14			14-15			15-16		
	WS		WD	WS		WD	WS		WD	WS		WD	WS		WD
	m/s	km/hr		m/s	km/hr		m/s	km/hr		m/s	km/hr		m/s	km/hr	
11:00-12:00	2.2	8.0	ENE	1.8	6.4	NE	2.7	9.7	S	1.3	4.8	NE	0.9	3.2	S
12:00-13:00	1.8	6.4	NE	1.8	6.4	ENE	2.2	8.0	S	1.8	6.4	NE	1.3	4.8	S
13:00-14:00	0.9	3.2	NE	1.3	4.8	NE	1.8	6.4	S	1.3	4.8	NE	1.3	4.8	SSW
14:00-15:00	1.3	4.8	NE	0.9	3.2	ENE	1.8	6.4	S	1.3	4.8	SSE	1.3	4.8	S
15:00-16:00	1.3	4.8	NE	1.3	4.8	ENE	1.3	4.8	SSE	1.3	4.8	S	1.3	4.8	S
16:00-17:00	1.3	4.8	NE	0.9	3.2	ENE	1.3	4.8	NE	0.9	3.2	SW	0.9	3.2	SSW
17:00-18:00	0.9	3.2	NE	0.4	1.6	NE	1.3	4.8	ENE	0.9	3.2	NE	0.9	3.2	ENE
18:00-19:00	0.9	3.2	ENE	1.3	4.8	ENE	1.3	4.8	ENE	1.3	4.8	NE	1.3	4.8	ENE
19:00-20:00	0.4	1.6	ENE	1.8	6.4	ENE	1.8	6.4	ENE	1.3	4.8	ENE	0.9	3.2	E
20:00-21:00	0.9	3.2	ENE	1.8	6.4	ENE	1.3	4.8	ENE	0.9	3.2	ENE	0.4	1.6	NE
21:00-22:00	1.3	4.8	ENE	1.3	4.8	ENE	0.9	3.2	ENE	0.4	1.6	NE	0.9	3.2	ENE
22:00-23:00	1.3	4.8	ENE	1.3	4.8	ENE	0.4	1.6	NNE	0.4	1.6	NE	0.9	3.2	NE
23:00-00:00	0.9	3.2	NE	0.9	3.2	ENE	0.4	1.6	NE	0.4	1.6	E	0.4	1.6	ENE
00:00-01:00	0.9	3.2	ENE	1.3	4.8	NE	0.4	1.6	ENE	0.4	1.6	ENE	1.3	4.8	E
01:00-02:00	0.4	1.6	NNE	0.9	3.2	ENE	0.4	1.6	E	0.4	1.6	SW	0.4	1.6	NE
02:00-03:00	0.4	1.6	NE	0.9	3.2	NE	0.4	1.6	ENE	0.9	3.2	SW	0.9	3.2	NNE
03:00-04:00	1.3	4.8	W	0.4	1.6	NE	0.9	3.2	NE	0.9	3.2	ENE	1.8	6.4	SW
04:00-05:00	0.9	3.2	SW	0.4	1.6	S	0.9	3.2	SSE	1.8	6.4	E	0.9	3.2	WSW
05:00-06:00	0.4	1.6	WSW	0.4	1.6	SSW	0.9	3.2	ENE	1.3	4.8	E	0.9	3.2	SSE
06:00-07:00	0.4	1.6	SW	0.4	1.6	SW	0.4	1.6	ENE	1.3	4.8	ENE	1.8	6.4	NE
07:00-08:00	0.4	1.6	NE	1.3	4.8	SSW	0.9	3.2	NE	1.8	6.4	ENE	0.9	3.2	ENE
08:00-09:00	1.3	4.8	S	2.2	8.0	S	0.9	3.2	NE	1.3	4.8	ENE	1.3	4.8	ENE
09:00-10:00	2.2	8.0	SW	2.7	9.7	S	0.9	3.2	S	0.9	3.2	E	1.3	4.8	NE
10:00-11:00	1.3	4.8	SW	1.8	6.4	S	0.9	3.2	NE	0.4	1.6	WSW	1.8	6.4	ENE
Temperature Average (°C)	30.7			28.4			29.3			29.1			29.8		
Barometric Pressure Average (mmHg)	757.25			756.80			756.98			756.94			757.06		
Sky Condition	Fair			Cloudy and Rainy			Cloudy and Rainy			Cloudy and Rainy			Cloudy and Rainy		

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.



RY061/05/66

R-Pro-1091-2/2021

Wind Speed and Wind Direction Measurement Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Project Area					
	May 2023					
	16-17			17-18		
	WS		WD	WS		WD
	m/s	km/hr		m/s	km/hr	
11:00-12:00	1.3	4.8	ENE	1.3	4.8	S
12:00-13:00	0.9	3.2	NE	1.8	6.4	S
13:00-14:00	0.9	3.2	S	1.3	4.8	S
14:00-15:00	1.3	4.8	SSW	1.3	4.8	S
15:00-16:00	1.3	4.8	SSW	1.3	4.8	S
16:00-17:00	0.9	3.2	NE	1.3	4.8	S
17:00-18:00	0.9	3.2	SSW	0.9	3.2	SSW
18:00-19:00	0.4	1.6	SSW	0.9	3.2	NE
19:00-20:00	0.4	1.6	NE	0.4	1.6	NE
20:00-21:00	0.4	1.6	ENE	0.4	1.6	NE
21:00-22:00	0.4	1.6	SSW	0.4	1.6	SW
22:00-23:00	0.4	1.6	SW	0.4	1.6	ESE
23:00-00:00	0.9	3.2	SW	0.4	1.6	SSW
00:00-01:00	0.9	3.2	SSW	0.4	1.6	SSW
01:00-02:00	1.3	4.8	SSW	0.9	3.2	SW
02:00-03:00	1.3	4.8	S	0.9	3.2	SSW
03:00-04:00	0.4	1.6	S	1.3	4.8	SW
04:00-05:00	1.3	4.8	S	1.8	6.4	S
05:00-06:00	1.8	6.4	S	1.8	6.4	S
06:00-07:00	0.9	3.2	SSW	1.3	4.8	SSW
07:00-08:00	0.4	1.6	SSE	0.4	1.6	SSW
08:00-09:00	0.4	1.6	SSE	1.3	4.8	SSW
09:00-10:00	1.3	4.8	NE	2.2	8.0	SSE
10:00-11:00	0.4	1.6	S	2.2	8.0	SSE
Temperature Average (°C)	30.2			31.0		
Barometric Pressure Average (mmHg)	757.21			757.30		
Sky Codition	Fair			Fair		

Reported results refer to measurement time only.

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ลำดับที่ 3

ระดับเสียงในบรรยากาศ

Central Control Room (CCR) Building





บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด
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RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (East Area)		
	February 2023		
	21-22		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	74.1	73.7	107.7
11:00-12:00	73.5		
12:00-13:00	72.1		
13:00-14:00	73.1		
14:00-15:00	75.6		
15:00-16:00	74.9		
16:00-17:00	73.2		
17:00-18:00	71.4		
18:00-19:00	71.3	70.6	88.8
19:00-20:00	69.9		
20:00-21:00	70.3		
21:00-22:00	70.1		
22:00-23:00	70.2		
23:00-00:00	70.1		
00:00-01:00	70.5		
01:00-02:00	72.0		
02:00-03:00	72.2	72.4	96.7
03:00-04:00	72.2		
04:00-05:00	72.3		
05:00-06:00	71.8		
06:00-07:00	72.0		
07:00-08:00	71.7		
08:00-09:00	73.1		
09:00-10:00	73.5		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

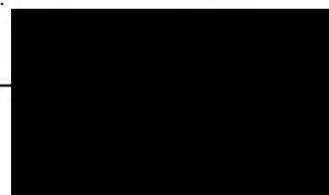
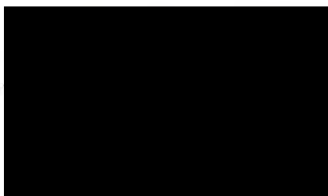
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 21-28 February 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 6 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Construction of Production Control Building Area (East Area)		
	February 2023		
	22-23		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	74.0	73.6	108.0
11:00-12:00	75.5		
12:00-13:00	74.0		
13:00-14:00	73.5		
14:00-15:00	72.4		
15:00-16:00	71.9		
16:00-17:00	73.7		
17:00-18:00	73.1	72.7	99.1
18:00-19:00	73.2		
19:00-20:00	72.3		
20:00-21:00	72.6		
21:00-22:00	72.4		
22:00-23:00	72.5		
23:00-00:00	72.8		
00:00-01:00	72.8	72.8	84.3
01:00-02:00	72.9		
02:00-03:00	73.0		
03:00-04:00	72.5		
04:00-05:00	72.0		
05:00-06:00	71.9		
06:00-07:00	71.6		
07:00-08:00	72.1		
08:00-09:00	73.6		
09:00-10:00	74.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)

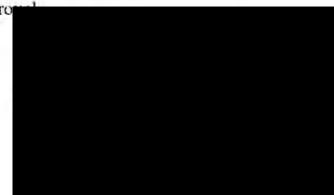
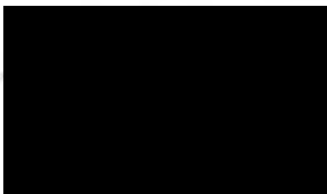
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (East Area)		
	February 2023		
	23-24		
	$L_{eq} 1 \text{ hr [dB(A)]}$	$L_{eq} 8 \text{ hr [dB(A)]}$	$L_{max} \text{ [dB(A)]}$
10:00-11:00	74.4	72.8	100.1
11:00-12:00	72.3		
12:00-13:00	71.5		
13:00-14:00	72.2		
14:00-15:00	72.7		
15:00-16:00	73.9		
16:00-17:00	72.6		
17:00-18:00	72.3	71.9	95.5
18:00-19:00	71.7		
19:00-20:00	71.2		
20:00-21:00	71.1		
21:00-22:00	71.6		
22:00-23:00	72.0		
23:00-00:00	72.6		
00:00-01:00	72.6	71.5	95.2
01:00-02:00	71.8		
02:00-03:00	71.7		
03:00-04:00	71.7		
04:00-05:00	71.5		
05:00-06:00	71.3		
06:00-07:00	70.9		
07:00-08:00	70.5	71.9	95.2
08:00-09:00	71.9		
09:00-10:00	72.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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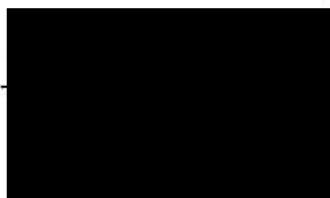
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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4/7

RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (East Area)		
	February 2023		
	24-25		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	71.2	71.2	100.2
11:00-12:00	69.9		
12:00-13:00	69.2		
13:00-14:00	70.6		
14:00-15:00	71.8		
15:00-16:00	72.6		
16:00-17:00	72.2		
17:00-18:00	71.1		
18:00-19:00	70.7	70.5	90.8
19:00-20:00	70.3		
20:00-21:00	70.3		
21:00-22:00	70.1		
22:00-23:00	70.4		
23:00-00:00	70.3		
00:00-01:00	70.8		
01:00-02:00	71.0		
02:00-03:00	71.0	71.4	97.6
03:00-04:00	71.1		
04:00-05:00	71.0		
05:00-06:00	70.9		
06:00-07:00	71.0		
07:00-08:00	71.9		
08:00-09:00	72.1		
09:00-10:00	72.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

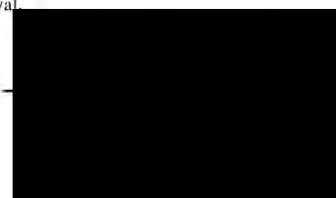
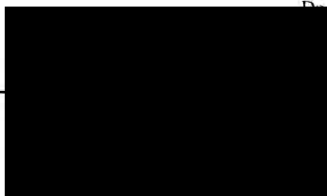
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.





RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 21-28 February 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 6 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Construction of Production Control Building Area (East Area)		
	February 2023		
	25-26		
	$L_{eq} 1 \text{ hr [dB(A)]}$	$L_{eq} 8 \text{ hr [dB(A)]}$	$L_{max} \text{ [dB(A)]}$
10:00-11:00	72.8	73.2	94.0
11:00-12:00	73.2		
12:00-13:00	74.0		
13:00-14:00	73.5		
14:00-15:00	74.1		
15:00-16:00	73.9		
16:00-17:00	72.6		
17:00-18:00	70.7		
18:00-19:00	70.4	70.0	82.1
19:00-20:00	69.9		
20:00-21:00	69.7		
21:00-22:00	69.9		
22:00-23:00	70.1		
23:00-00:00	70.3		
00:00-01:00	70.2		
01:00-02:00	69.3		
02:00-03:00	68.7	70.6	95.4
03:00-04:00	68.9		
04:00-05:00	69.3		
05:00-06:00	70.5		
06:00-07:00	71.0		
07:00-08:00	72.4		
08:00-09:00	71.6		
09:00-10:00	71.2		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)

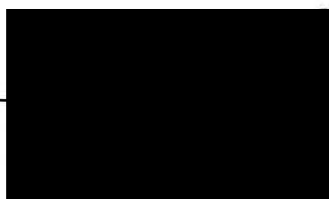
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY217/02/66

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (East Area)		
	February 2023		
	26-27		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
10:00-11:00	70.2	70.6	104.4
11:00-12:00	69.7		
12:00-13:00	70.4		
13:00-14:00	71.7		
14:00-15:00	71.0		
15:00-16:00	70.8		
16:00-17:00	70.4		
17:00-18:00	70.4		
18:00-19:00	70.3	69.6	80.8
19:00-20:00	70.2		
20:00-21:00	69.7		
21:00-22:00	69.5		
22:00-23:00	69.4		
23:00-00:00	69.0		
00:00-01:00	69.7		
01:00-02:00	69.2		
02:00-03:00	69.1	69.8	92.9
03:00-04:00	69.1		
04:00-05:00	69.3		
05:00-06:00	69.6		
06:00-07:00	69.9		
07:00-08:00	70.0		
08:00-09:00	70.3		
09:00-10:00	70.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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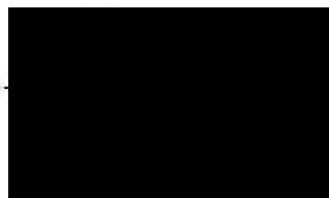
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Sampling Method = Sound Level Meter

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (East Area)		
	February 2023		
	27-28		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	71.0	70.4	92.0
11:00-12:00	70.7		
12:00-13:00	69.4		
13:00-14:00	70.6		
14:00-15:00	70.9		
15:00-16:00	70.2		
16:00-17:00	70.3		
17:00-18:00	69.5		
18:00-19:00	70.2	71.0	96.1
19:00-20:00	70.1		
20:00-21:00	70.5		
21:00-22:00	71.1		
22:00-23:00	71.1		
23:00-00:00	71.7		
00:00-01:00	71.5		
01:00-02:00	71.4		
02:00-03:00	71.2	71.7	93.2
03:00-04:00	71.3		
04:00-05:00	71.3		
05:00-06:00	71.5		
06:00-07:00	71.6		
07:00-08:00	71.6		
08:00-09:00	72.2		
09:00-10:00	72.5		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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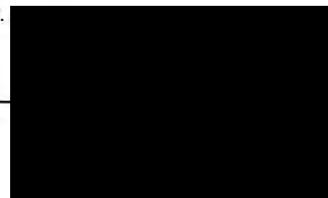
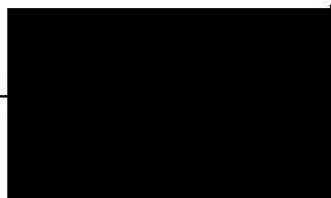
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Sampling Method = Sound Level Meter

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193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (South Area)		
	February 2023		
	21-22		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	67.2	66.0	95.4
11:00-12:00	65.4		
12:00-13:00	64.7		
13:00-14:00	64.3		
14:00-15:00	66.1		
15:00-16:00	67.8		
16:00-17:00	66.3		
17:00-18:00	64.6		
18:00-19:00	64.6	62.5	87.2
19:00-20:00	62.3		
20:00-21:00	62.5		
21:00-22:00	62.1		
22:00-23:00	62.1		
23:00-00:00	62.1		
00:00-01:00	61.8		
01:00-02:00	61.8		
02:00-03:00	61.6	63.2	93.9
03:00-04:00	61.8		
04:00-05:00	61.7		
05:00-06:00	62.0		
06:00-07:00	62.8		
07:00-08:00	63.4		
08:00-09:00	63.9		
09:00-10:00	66.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R03	ACO	6236	00132031
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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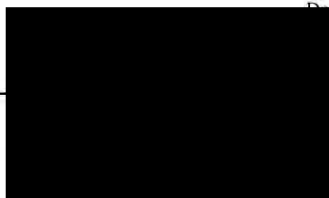
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (South Area)		
	February 2023		
	22-23		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
10:00-11:00	67.9	65.7	93.8
11:00-12:00	63.9		
12:00-13:00	62.2		
13:00-14:00	65.1		
14:00-15:00	67.8		
15:00-16:00	67.0		
16:00-17:00	64.9		
17:00-18:00	63.3		
18:00-19:00	63.6	62.6	90.2
19:00-20:00	63.1		
20:00-21:00	62.5		
21:00-22:00	62.7		
22:00-23:00	62.4		
23:00-00:00	62.4		
00:00-01:00	62.3		
01:00-02:00	61.7		
02:00-03:00	61.1	62.7	86.3
03:00-04:00	61.0		
04:00-05:00	61.4		
05:00-06:00	61.6		
06:00-07:00	62.6		
07:00-08:00	62.8		
08:00-09:00	64.7		
09:00-10:00	64.5		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R03	ACO	6236	00132031
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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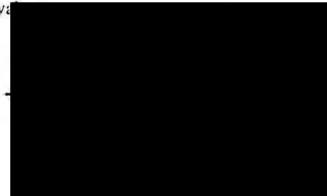
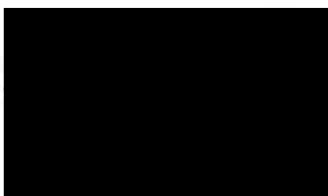
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 21-28 February 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 6 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Construction of Production Control Building Area (South Area)		
	February 2023		
	23-24		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
10:00-11:00	65.6	64.9	97.3
11:00-12:00	65.2		
12:00-13:00	64.6		
13:00-14:00	64.3		
14:00-15:00	66.1		
15:00-16:00	65.7		
16:00-17:00	63.7		
17:00-18:00	63.7		
18:00-19:00	63.4	62.4	80.8
19:00-20:00	62.7		
20:00-21:00	62.6		
21:00-22:00	62.6		
22:00-23:00	62.2		
23:00-00:00	62.1		
00:00-01:00	62.2		
01:00-02:00	61.6		
02:00-03:00	60.9	62.8	89.5
03:00-04:00	60.7		
04:00-05:00	61.0		
05:00-06:00	61.2		
06:00-07:00	62.4		
07:00-08:00	62.7		
08:00-09:00	64.1		
09:00-10:00	66.2		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R03	ACO	6236	00132031
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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Sampling Method = Sound Level Meter

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RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (South Area)		
	February 2023		
	24-25		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
10:00-11:00	67.2	66.5	104.2
11:00-12:00	66.6		
12:00-13:00	65.5		
13:00-14:00	63.0		
14:00-15:00	65.7		
15:00-16:00	67.3		
16:00-17:00	68.5		
17:00-18:00	66.6		
18:00-19:00	64.6	62.1	86.6
19:00-20:00	62.4		
20:00-21:00	62.1		
21:00-22:00	61.9		
22:00-23:00	61.8		
23:00-00:00	61.5		
00:00-01:00	61.0		
01:00-02:00	60.7		
02:00-03:00	61.0	63.4	101.1
03:00-04:00	60.6		
04:00-05:00	60.8		
05:00-06:00	61.3		
06:00-07:00	62.6		
07:00-08:00	62.4		
08:00-09:00	65.2		
09:00-10:00	67.6		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R03	ACO	6236	00132031
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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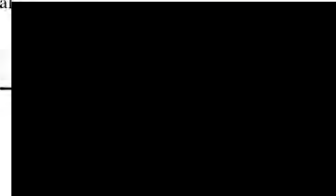
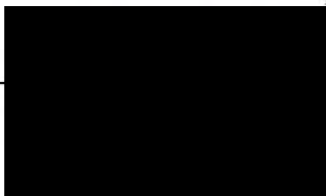
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Sampling Method = Sound Level Meter

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193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 21-28 February 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 6 March 2023
Mueang, Rayong 21000
Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Construction of Production Control Building Area (South Area)		
	February 2023		
	25-26		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
10:00-11:00	65.2	64.7	105.2
11:00-12:00	64.8		
12:00-13:00	62.5		
13:00-14:00	63.6		
14:00-15:00	65.3		
15:00-16:00	66.1		
16:00-17:00	64.9		
17:00-18:00	63.8		
18:00-19:00	62.8	61.7	86.5
19:00-20:00	61.7		
20:00-21:00	61.7		
21:00-22:00	61.8		
22:00-23:00	61.8		
23:00-00:00	61.7		
00:00-01:00	61.4		
01:00-02:00	60.6		
02:00-03:00	60.6	61.4	98.2
03:00-04:00	60.4		
04:00-05:00	60.4		
05:00-06:00	60.7		
06:00-07:00	61.9		
07:00-08:00	61.9		
08:00-09:00	62.3		
09:00-10:00	62.3		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R03	ACO	6236	00132031
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)

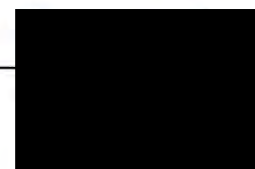
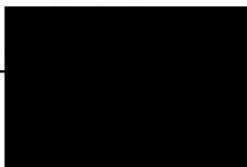
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY217/02/66

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (South Area)		
	February 2023		
	26-27		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	65.4	63.1	104.4
11:00-12:00	63.3		
12:00-13:00	62.0		
13:00-14:00	62.4		
14:00-15:00	63.1		
15:00-16:00	62.7		
16:00-17:00	62.2		
17:00-18:00	62.1	61.6	78.3
18:00-19:00	62.3		
19:00-20:00	61.9		
20:00-21:00	61.8		
21:00-22:00	61.8		
22:00-23:00	61.8		
23:00-00:00	61.5		
00:00-01:00	60.7	62.8	93.5
01:00-02:00	60.4		
02:00-03:00	60.3		
03:00-04:00	60.2		
04:00-05:00	61.0		
05:00-06:00	61.8		
06:00-07:00	62.5		
07:00-08:00	63.2	Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
08:00-09:00	64.7		
09:00-10:00	65.3		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R03	ACO	6236	00132031
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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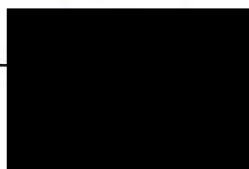
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Sampling Method = Sound Level Meter

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RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 21-28 February 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 6 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Construction of Production Control Building Area (South Area)		
	February 2023		
	27-28		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	66.9	67.7	91.9
11:00-12:00	66.3		
12:00-13:00	66.2		
13:00-14:00	66.7		
14:00-15:00	65.9		
15:00-16:00	67.5		
16:00-17:00	69.5		
17:00-18:00	70.3		
18:00-19:00	68.0	63.9	81.0
19:00-20:00	65.8		
20:00-21:00	63.7		
21:00-22:00	62.9		
22:00-23:00	61.9		
23:00-00:00	61.6		
00:00-01:00	60.7		
01:00-02:00	60.5		
02:00-03:00	60.6	63.9	96.0
03:00-04:00	60.7		
04:00-05:00	61.0		
05:00-06:00	61.8		
06:00-07:00	62.7		
07:00-08:00	63.1		
08:00-09:00	66.1		
09:00-10:00	68.2		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R03	ACO	6236	00132031
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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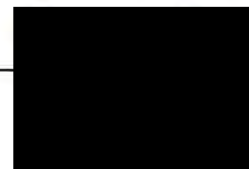
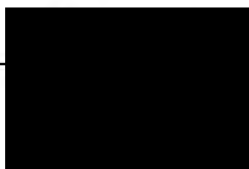
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Sampling Method = Sound Level Meter

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RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (West Area)		
	February 2023		
	21-22		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	68.9	69.3	99.1
11:00-12:00	68.2		
12:00-13:00	67.3		
13:00-14:00	68.4		
14:00-15:00	69.1		
15:00-16:00	70.7		
16:00-17:00	71.0		
17:00-18:00	69.1	66.1	94.6
18:00-19:00	67.9		
19:00-20:00	67.0		
20:00-21:00	65.7		
21:00-22:00	65.6		
22:00-23:00	65.4		
23:00-00:00	65.8		
00:00-01:00	65.5	66.6	103.2
01:00-02:00	65.0		
02:00-03:00	65.2		
03:00-04:00	65.3		
04:00-05:00	65.3		
05:00-06:00	65.5		
06:00-07:00	66.2		
07:00-08:00	66.2	68.5	
08:00-09:00	68.5		
09:00-10:00	68.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R38	ACO	6236	00192050
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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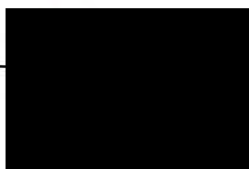
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Sampling Method = Sound Level Meter

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RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 21-28 February 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 6 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Construction of Production Control Building Area (West Area)		
	February 2023		
	22-23		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
10:00-11:00	68.8	69.8	99.1
11:00-12:00	69.5		
12:00-13:00	68.1		
13:00-14:00	68.9		
14:00-15:00	69.3		
15:00-16:00	70.7		
16:00-17:00	70.6		
17:00-18:00	71.2		
18:00-19:00	69.2	65.7	94.6
19:00-20:00	67.4		
20:00-21:00	65.7		
21:00-22:00	65.6		
22:00-23:00	64.2		
23:00-00:00	63.8		
00:00-01:00	62.7		
01:00-02:00	61.1		
02:00-03:00	60.3	62.2	103.2
03:00-04:00	60.3		
04:00-05:00	60.1		
05:00-06:00	60.5		
06:00-07:00	61.2		
07:00-08:00	62.2		
08:00-09:00	64.5		
09:00-10:00	64.8		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R38	ACO	6236	00192050
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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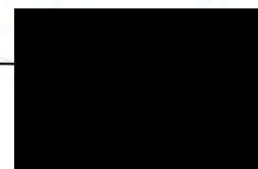
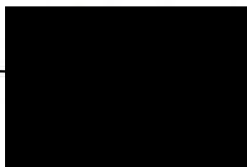
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (West Area)		
	February 2023		
	23-24		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
10:00-11:00	68.8	69.9	99.1
11:00-12:00	69.5		
12:00-13:00	70.1		
13:00-14:00	69.4		
14:00-15:00	69.1		
15:00-16:00	70.7		
16:00-17:00	70.2		
17:00-18:00	71.1		
18:00-19:00	70.9	66.7	94.6
19:00-20:00	68.0		
20:00-21:00	67.2		
21:00-22:00	65.6		
22:00-23:00	65.4		
23:00-00:00	64.3		
00:00-01:00	63.5		
01:00-02:00	62.1		
02:00-03:00	61.4	62.6	103.2
03:00-04:00	60.3		
04:00-05:00	59.5		
05:00-06:00	60.7		
06:00-07:00	61.2		
07:00-08:00	62.7		
08:00-09:00	64.5		
09:00-10:00	65.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R38	ACO	6236	00192050
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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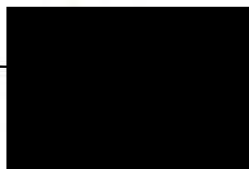
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Sampling Method = Sound Level Meter

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RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (West Area)		
	February 2023		
	24-25		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	68.8	68.0	99.1
11:00-12:00	69.5		
12:00-13:00	68.3		
13:00-14:00	66.4		
14:00-15:00	65.4		
15:00-16:00	66.7		
16:00-17:00	68.2		
17:00-18:00	69.3		
18:00-19:00	70.9	67.2	94.6
19:00-20:00	68.2		
20:00-21:00	67.1		
21:00-22:00	65.6		
22:00-23:00	65.4		
23:00-00:00	65.8		
00:00-01:00	65.5		
01:00-02:00	65.0		
02:00-03:00	64.3	66.6	103.2
03:00-04:00	65.3		
04:00-05:00	64.8		
05:00-06:00	65.5		
06:00-07:00	66.2		
07:00-08:00	67.5		
08:00-09:00	68.5		
09:00-10:00	68.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R38	ACO	6236	00192050
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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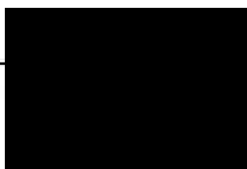
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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY217/02/66

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 21-28 February 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 6 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Construction of Production Control Building Area (West Area)		
	February 2023		
	25-26		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	68.8	69.2	99.1
11:00-12:00	69.9		
12:00-13:00	67.3		
13:00-14:00	66.4		
14:00-15:00	68.2		
15:00-16:00	69.7		
16:00-17:00	70.2		
17:00-18:00	71.1	66.8	94.6
18:00-19:00	70.9		
19:00-20:00	68.4		
20:00-21:00	66.7		
21:00-22:00	65.6		
22:00-23:00	65.4		
23:00-00:00	64.1		
00:00-01:00	64.5	65.4	103.2
01:00-02:00	63.1		
02:00-03:00	62.3		
03:00-04:00	60.5		
04:00-05:00	61.3		
05:00-06:00	62.5		
06:00-07:00	64.7		
07:00-08:00	66.2		
08:00-09:00	68.5		
09:00-10:00	68.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R38	ACO	6236	00192050
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

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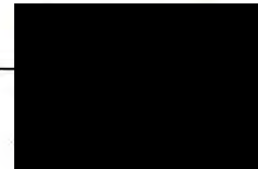
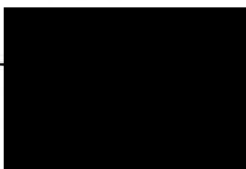
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RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 21-28 February 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 6 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Construction of Production Control Building Area (West Area)		
	February 2023		
	26-27		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
10:00-11:00	68.8	69.2	99.1
11:00-12:00	68.7		
12:00-13:00	67.3		
13:00-14:00	66.4		
14:00-15:00	68.1		
15:00-16:00	70.7		
16:00-17:00	70.2		
17:00-18:00	71.1		
18:00-19:00	68.2	66.0	94.6
19:00-20:00	67.0		
20:00-21:00	65.7		
21:00-22:00	65.6		
22:00-23:00	65.4		
23:00-00:00	64.8		
00:00-01:00	65.5		
01:00-02:00	65.0		
02:00-03:00	63.2	65.9	103.2
03:00-04:00	62.5		
04:00-05:00	63.8		
05:00-06:00	64.5		
06:00-07:00	65.2		
07:00-08:00	66.2		
08:00-09:00	68.5		
09:00-10:00	68.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R38	ACO	6236	00192050
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

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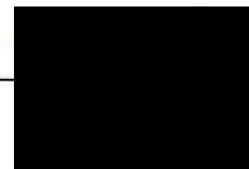
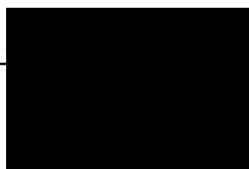
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Sampling Method = Sound Level Meter

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RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (West Area)		
	February 2023		
	27-28		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	68.8	69.6	99.1
11:00-12:00	70.6		
12:00-13:00	67.3		
13:00-14:00	66.4		
14:00-15:00	68.6		
15:00-16:00	70.7		
16:00-17:00	71.0		
17:00-18:00	71.2		
18:00-19:00	70.9	67.2	94.6
19:00-20:00	69.0		
20:00-21:00	67.2		
21:00-22:00	65.6		
22:00-23:00	65.4		
23:00-00:00	65.8		
00:00-01:00	64.6		
01:00-02:00	63.2		
02:00-03:00	62.7	66.3	103.2
03:00-04:00	63.3		
04:00-05:00	64.3		
05:00-06:00	65.5		
06:00-07:00	66.2		
07:00-08:00	66.7		
08:00-09:00	68.5		
09:00-10:00	68.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R38	ACO	6236	00192050
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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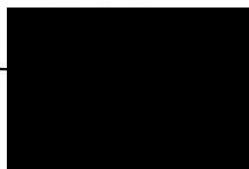
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Sampling Method = Sound Level Meter

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RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (North Area)		
	February 2023		
	21-22		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	70.7	70.7	99.1
11:00-12:00	72.0		
12:00-13:00	71.3		
13:00-14:00	69.4		
14:00-15:00	68.7		
15:00-16:00	70.7		
16:00-17:00	71.0		
17:00-18:00	71.1		
18:00-19:00	70.9	66.9	94.6
19:00-20:00	68.5		
20:00-21:00	66.4		
21:00-22:00	65.6		
22:00-23:00	65.4		
23:00-00:00	64.8		
00:00-01:00	64.5		
01:00-02:00	64.0		
02:00-03:00	63.2	66.4	103.2
03:00-04:00	64.3		
04:00-05:00	64.3		
05:00-06:00	65.5		
06:00-07:00	66.2		
07:00-08:00	67.2		
08:00-09:00	68.5		
09:00-10:00	68.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R28	ACO	6236	00192040
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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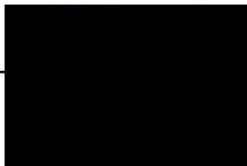
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (North Area)		
	February 2023		
	22-23		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	69.8	70.2	99.1
11:00-12:00	71.0		
12:00-13:00	69.3		
13:00-14:00	68.4		
14:00-15:00	69.3		
15:00-16:00	70.7		
16:00-17:00	71.0		
17:00-18:00	71.1		
18:00-19:00	69.9	65.9	94.6
19:00-20:00	67.0		
20:00-21:00	65.7		
21:00-22:00	65.6		
22:00-23:00	64.6		
23:00-00:00	63.9		
00:00-01:00	63.0		
01:00-02:00	62.4		
02:00-03:00	62.2	66.0	103.2
03:00-04:00	63.3		
04:00-05:00	63.8		
05:00-06:00	64.0		
06:00-07:00	66.2		
07:00-08:00	66.2		
08:00-09:00	68.5		
09:00-10:00	69.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R28	ACO	6236	00192040
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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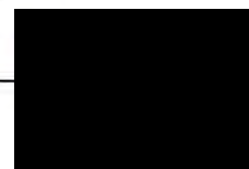
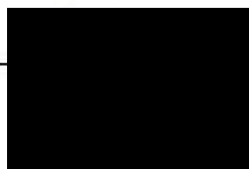
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Sampling Method = Sound Level Meter

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Noise Level Report

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Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
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Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (North Area)		
	February 2023		
	23-24		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	69.1	69.8	99.1
11:00-12:00	70.5		
12:00-13:00	68.8		
13:00-14:00	67.4		
14:00-15:00	68.7		
15:00-16:00	70.7		
16:00-17:00	71.0		
17:00-18:00	70.9		
18:00-19:00	69.4	66.0	94.6
19:00-20:00	67.4		
20:00-21:00	65.7		
21:00-22:00	65.6		
22:00-23:00	64.6		
23:00-00:00	64.8		
00:00-01:00	63.8		
01:00-02:00	63.0		
02:00-03:00	62.3	66.3	103.2
03:00-04:00	63.8		
04:00-05:00	64.3		
05:00-06:00	65.0		
06:00-07:00	66.2		
07:00-08:00	67.0		
08:00-09:00	68.5		
09:00-10:00	68.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R28	ACO	6236	00192040
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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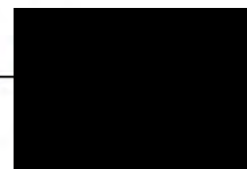
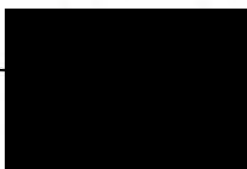
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Sampling Method = Sound Level Meter

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RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (North Area)		
	February 2023		
	24-25		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	68.9	69.9	99.1
11:00-12:00	70.0		
12:00-13:00	68.8		
13:00-14:00	67.4		
14:00-15:00	69.3		
15:00-16:00	70.7		
16:00-17:00	71.0		
17:00-18:00	71.4		
18:00-19:00	71.0	66.8	94.6
19:00-20:00	68.5		
20:00-21:00	66.7		
21:00-22:00	65.6		
22:00-23:00	65.4		
23:00-00:00	64.4		
00:00-01:00	63.5		
01:00-02:00	63.0		
02:00-03:00	64.2	66.2	103.2
03:00-04:00	64.3		
04:00-05:00	65.0		
05:00-06:00	65.5		
06:00-07:00	65.7		
07:00-08:00	66.2		
08:00-09:00	67.5		
09:00-10:00	68.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R28	ACO	6236	00192040
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)

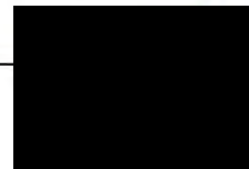
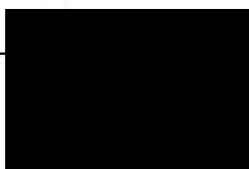
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (North Area)		
	February 2023		
	25-26		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	68.8	69.5	99.1
11:00-12:00	69.5		
12:00-13:00	67.8		
13:00-14:00	66.4		
14:00-15:00	68.2		
15:00-16:00	70.7		
16:00-17:00	71.0		
17:00-18:00	71.1	67.0	94.6
18:00-19:00	70.9		
19:00-20:00	68.5		
20:00-21:00	67.2		
21:00-22:00	65.6		
22:00-23:00	65.4		
23:00-00:00	64.8		
00:00-01:00	64.3	66.3	103.2
01:00-02:00	63.7		
02:00-03:00	62.2		
03:00-04:00	62.3		
04:00-05:00	63.8		
05:00-06:00	65.5		
06:00-07:00	66.2		
07:00-08:00	67.2	68.5	
08:00-09:00	68.5		
09:00-10:00	69.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R28	ACO	6236	00192040
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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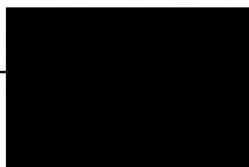
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (North Area)		
	February 2023		
	26-27		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	68.8	69.1	99.1
11:00-12:00	69.5		
12:00-13:00	67.8		
13:00-14:00	66.4		
14:00-15:00	67.2		
15:00-16:00	69.7		
16:00-17:00	70.2		
17:00-18:00	71.1	66.7	94.6
18:00-19:00	70.9		
19:00-20:00	68.5		
20:00-21:00	66.7		
21:00-22:00	65.6		
22:00-23:00	64.5		
23:00-00:00	63.9		
00:00-01:00	63.5	65.8	103.2
01:00-02:00	62.5		
02:00-03:00	62.2		
03:00-04:00	62.3		
04:00-05:00	63.3		
05:00-06:00	64.0		
06:00-07:00	65.2		
07:00-08:00	66.2	69.1	94.1
08:00-09:00	68.5		
09:00-10:00	69.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R28	ACO	6236	00192040
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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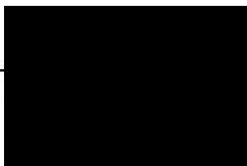
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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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7/7

RY217/02/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 21-28 February 2023
Date Reported : 6 March 2023

Time	Construction of Production Control Building Area (North Area)		
	February 2023		
	27-28		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:00-11:00	70.1	70.4	99.1
11:00-12:00	72.0		
12:00-13:00	70.5		
13:00-14:00	68.9		
14:00-15:00	69.2		
15:00-16:00	70.7		
16:00-17:00	70.2		
17:00-18:00	71.1		
18:00-19:00	70.6	66.8	94.6
19:00-20:00	68.4		
20:00-21:00	66.7		
21:00-22:00	65.6		
22:00-23:00	65.4		
23:00-00:00	64.8		
00:00-01:00	64.0		
01:00-02:00	63.7		
02:00-03:00	63.1	65.9	103.2
03:00-04:00	62.4		
04:00-05:00	63.3		
05:00-06:00	64.5		
06:00-07:00	65.2		
07:00-08:00	66.2		
08:00-09:00	68.5		
09:00-10:00	68.8		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_097/23		20 February 2023	
SLM No.	Brand	Model	Serial No.
ACO-R28	ACO	6236	00192040
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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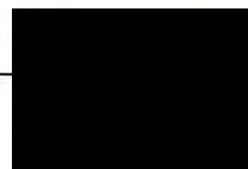
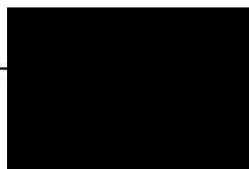
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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New Cooling Tower



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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (East Area)		
	March 2023		
	17-18		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
13:00-14:00	73.8	71.8	93.1
14:00-15:00	72.7		
15:00-16:00	71.8		
16:00-17:00	71.1		
17:00-18:00	70.4		
18:00-19:00	72.1		
19:00-20:00	71.3		
20:00-21:00	70.3		
21:00-22:00	68.2	68.4	83.3
22:00-23:00	67.7		
23:00-00:00	67.6		
00:00-01:00	67.0		
01:00-02:00	67.1		
02:00-03:00	68.4		
03:00-04:00	69.3		
04:00-05:00	70.5		
05:00-06:00	71.8	74.5	103.0
06:00-07:00	72.4		
07:00-08:00	71.7		
08:00-09:00	75.1		
09:00-10:00	74.8		
10:00-11:00	75.7		
11:00-12:00	76.0		
12:00-13:00	76.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R21	ACO	6236	00182004
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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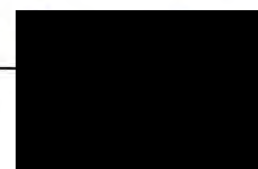
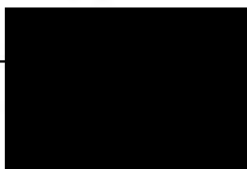
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (East Area)		
	March 2023		
	18-19		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
13:00-14:00	73.0	71.8	99.2
14:00-15:00	74.3		
15:00-16:00	73.1		
16:00-17:00	72.8		
17:00-18:00	71.0		
18:00-19:00	69.6		
19:00-20:00	68.0		
20:00-21:00	68.0		
21:00-22:00	67.7	69.9	81.9
22:00-23:00	68.4		
23:00-00:00	68.1		
00:00-01:00	69.5		
01:00-02:00	70.2		
02:00-03:00	71.1		
03:00-04:00	71.7		
04:00-05:00	70.8		
05:00-06:00	71.9	73.8	102.1
06:00-07:00	72.3		
07:00-08:00	73.6		
08:00-09:00	74.1		
09:00-10:00	74.9		
10:00-11:00	74.2		
11:00-12:00	75.2		
12:00-13:00	73.4		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R21	ACO	6236	00182004
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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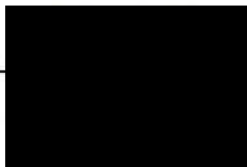
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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3/7

RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 17-24 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	New Cooling Tower Area (East Area)		
	March 2023		
	19-20		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
13:00-14:00	74.2	71.9	107.3
14:00-15:00	73.9		
15:00-16:00	72.6		
16:00-17:00	69.8		
17:00-18:00	71.4		
18:00-19:00	70.7		
19:00-20:00	70.6		
20:00-21:00	69.4		
21:00-22:00	68.6	68.5	86.5
22:00-23:00	69.4		
23:00-00:00	69.5		
00:00-01:00	68.8		
01:00-02:00	68.2		
02:00-03:00	67.9		
03:00-04:00	67.6		
04:00-05:00	67.4		
05:00-06:00	67.8	72.3	95.5
06:00-07:00	68.4		
07:00-08:00	69.1		
08:00-09:00	72.6		
09:00-10:00	72.4		
10:00-11:00	73.2		
11:00-12:00	74.4		
12:00-13:00	75.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R21	ACO	6236	00182004
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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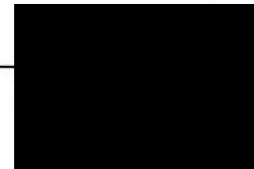
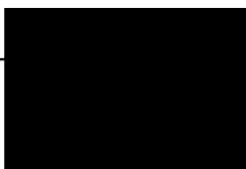
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Sampling Method = Sound Level Meter

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (East Area)		
	March 2023		
	20-21		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
13:00-14:00	73.9	71.6	100.6
14:00-15:00	72.5		
15:00-16:00	71.9		
16:00-17:00	72.4		
17:00-18:00	71.1		
18:00-19:00	70.0		
19:00-20:00	69.4		
20:00-21:00	69.1		
21:00-22:00	69.2	69.3	89.3
22:00-23:00	70.0		
23:00-00:00	71.7		
00:00-01:00	69.7		
01:00-02:00	69.0		
02:00-03:00	68.1		
03:00-04:00	67.8		
04:00-05:00	67.7		
05:00-06:00	67.9	72.3	96.4
06:00-07:00	68.8		
07:00-08:00	69.5		
08:00-09:00	71.8		
09:00-10:00	73.4		
10:00-11:00	74.1		
11:00-12:00	74.2		
12:00-13:00	73.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R21	ACO	6236	00182004
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

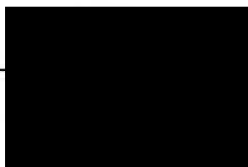
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (East Area)		
	March 2023		
	21-22		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
13:00-14:00	74.1	72.8	102.1
14:00-15:00	73.5		
15:00-16:00	74.5		
16:00-17:00	74.0		
17:00-18:00	72.3		
18:00-19:00	70.7		
19:00-20:00	70.2		
20:00-21:00	71.3		
21:00-22:00	70.1	69.2	83.3
22:00-23:00	69.6		
23:00-00:00	68.8		
00:00-01:00	68.0		
01:00-02:00	68.1		
02:00-03:00	68.4		
03:00-04:00	69.5		
04:00-05:00	70.4		
05:00-06:00	70.8	74.4	103.0
06:00-07:00	71.5		
07:00-08:00	73.8		
08:00-09:00	74.2		
09:00-10:00	74.3		
10:00-11:00	75.0		
11:00-12:00	75.8		
12:00-13:00	76.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R21	ACO	6236	00182004
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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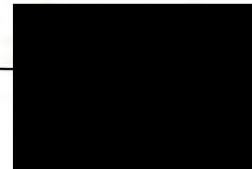
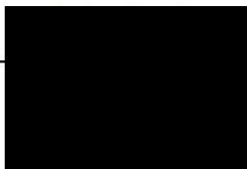
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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S.P.S. CONSULTING SERVICE CO., LTD.
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Tel : (662) 939-4370-72, Fax : (662) 513-4221, E-mail : sale@spscor.com, www.spscor.com

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (East Area)		
	March 2023		
	22-23		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
13:00-14:00	75.5	76.5	102.7
14:00-15:00	76.2		
15:00-16:00	77.8		
16:00-17:00	78.5		
17:00-18:00	77.6		
18:00-19:00	75.7		
19:00-20:00	74.8		
20:00-21:00	73.7	71.3	92.5
21:00-22:00	72.1		
22:00-23:00	70.6		
23:00-00:00	70.0		
00:00-01:00	70.1		
01:00-02:00	70.8		
02:00-03:00	71.7		
03:00-04:00	71.1	75.4	97.4
04:00-05:00	72.7		
05:00-06:00	72.9		
06:00-07:00	73.0		
07:00-08:00	74.7		
08:00-09:00	74.6		
09:00-10:00	74.3		
10:00-11:00	72.9	Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
11:00-12:00	77.7		
12:00-13:00	78.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R21	ACO	6236	00182004
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

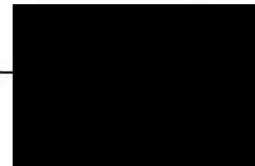
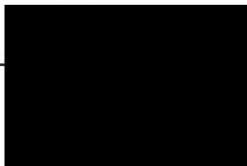
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (East Area)		
	March 2023		
	23-24		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
13:00-14:00	76.0	74.4	99.7
14:00-15:00	75.3		
15:00-16:00	74.7		
16:00-17:00	74.0		
17:00-18:00	75.7		
18:00-19:00	73.8		
19:00-20:00	72.0		
20:00-21:00	72.1		
21:00-22:00	71.7	69.1	102.6
22:00-23:00	70.7		
23:00-00:00	68.9		
00:00-01:00	68.2		
01:00-02:00	67.8		
02:00-03:00	67.6		
03:00-04:00	67.7		
04:00-05:00	68.5		
05:00-06:00	70.9	74.6	91.5
06:00-07:00	72.9		
07:00-08:00	73.0		
08:00-09:00	74.3		
09:00-10:00	76.3		
10:00-11:00	75.4		
11:00-12:00	75.6		
12:00-13:00	76.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R21	ACO	6236	00182004
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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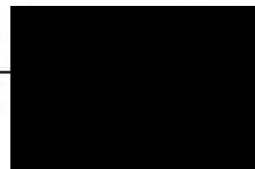
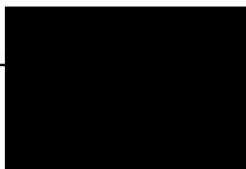
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Addr: : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (South Area)		
	March 2023		
	17-18		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
14:00-15:00	74.5	73.6	101.9
15:00-16:00	74.2		
16:00-17:00	73.8		
17:00-18:00	73.4		
18:00-19:00	73.5		
19:00-20:00	73.6		
20:00-21:00	73.2		
21:00-22:00	72.2		
22:00-23:00	70.8	70.9	87.4
23:00-00:00	70.4		
00:00-01:00	69.8		
01:00-02:00	69.5		
02:00-03:00	68.8		
03:00-04:00	71.1		
04:00-05:00	72.5		
05:00-06:00	72.8		
06:00-07:00	73.3	75.9	93.4
07:00-08:00	74.1		
08:00-09:00	74.6		
09:00-10:00	75.2		
10:00-11:00	76.4		
11:00-12:00	77.0		
12:00-13:00	77.9		
13:00-14:00	76.4		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R20	ACO	6236	00182003
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

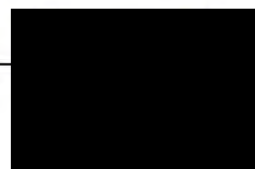
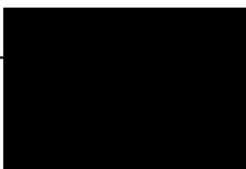
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (South Area)		
	March 2023		
	18-19		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
14:00-15:00	75.7	74.2	94.8
15:00-16:00	75.0		
16:00-17:00	75.4		
17:00-18:00	74.9		
18:00-19:00	73.3		
19:00-20:00	73.0		
20:00-21:00	72.4		
21:00-22:00	72.1		
22:00-23:00	73.3	71.8	82.4
23:00-00:00	73.4		
00:00-01:00	72.3		
01:00-02:00	71.8		
02:00-03:00	70.2		
03:00-04:00	69.7		
04:00-05:00	70.1		
05:00-06:00	72.3		
06:00-07:00	73.4	75.1	91.1
07:00-08:00	73.9		
08:00-09:00	74.2		
09:00-10:00	74.4		
10:00-11:00	75.3		
11:00-12:00	76.2		
12:00-13:00	76.8		
13:00-14:00	75.5		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R20	ACO	6236	00182003
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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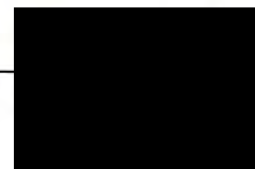
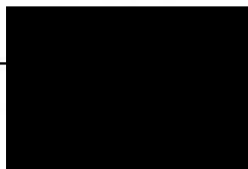
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY215/03/66

193/1/66

Noise Level Report

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Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (South Area)		
	March 2023		
	19-20		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
14:00-15:00	75.0	74.4	96.5
15:00-16:00	74.2		
16:00-17:00	73.2		
17:00-18:00	73.5		
18:00-19:00	74.1		
19:00-20:00	75.2		
20:00-21:00	75.0		
21:00-22:00	74.4		
22:00-23:00	73.1	71.9	88.7
23:00-00:00	72.9		
00:00-01:00	72.5		
01:00-02:00	71.4		
02:00-03:00	70.8		
03:00-04:00	70.6		
04:00-05:00	69.9		
05:00-06:00	72.7		
06:00-07:00	72.8	74.4	94.9
07:00-08:00	73.2		
08:00-09:00	73.1		
09:00-10:00	74.3		
10:00-11:00	74.3		
11:00-12:00	75.4		
12:00-13:00	75.2		
13:00-14:00	75.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R20	ACO	6236	00182003
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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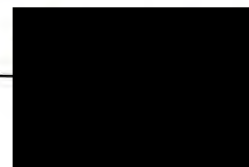
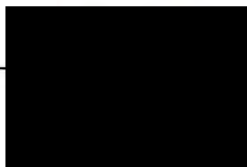
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (South Area)		
	March 2023		
	20-21		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
14:00-15:00	75.3	73.9	95.7
15:00-16:00	74.5		
16:00-17:00	73.9		
17:00-18:00	73.8		
18:00-19:00	74.2		
19:00-20:00	73.7		
20:00-21:00	72.9		
21:00-22:00	72.4	72.4	103.8
22:00-23:00	72.0		
23:00-00:00	73.1		
00:00-01:00	72.9		
01:00-02:00	72.3		
02:00-03:00	71.3		
03:00-04:00	72.7		
04:00-05:00	72.6		
05:00-06:00	71.9	74.2	97.1
06:00-07:00	72.2		
07:00-08:00	73.4		
08:00-09:00	74.1		
09:00-10:00	76.3		
10:00-11:00	75.6		
11:00-12:00	74.2		
12:00-13:00	72.2		
13:00-14:00	74.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R20	ACO	6236	00182003
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

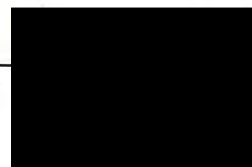
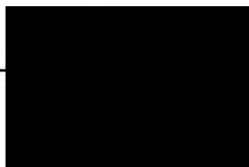
Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.
Do not copy partial of this measurement report without official approval.





RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (South Area)		
	March 2023		
	21-22		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
14:00-15:00	74.9	74.3	96.8
15:00-16:00	75.2		
16:00-17:00	76.1		
17:00-18:00	74.2		
18:00-19:00	73.5		
19:00-20:00	73.3		
20:00-21:00	73.1		
21:00-22:00	72.9	71.9	89.6
22:00-23:00	72.4		
23:00-00:00	73.0		
00:00-01:00	72.5		
01:00-02:00	71.6		
02:00-03:00	70.9		
03:00-04:00	70.3		
04:00-05:00	71.3	74.8	103.6
05:00-06:00	72.8		
06:00-07:00	74.6		
07:00-08:00	73.5		
08:00-09:00	74.8		
09:00-10:00	74.0		
10:00-11:00	75.1		
11:00-12:00	76.3		
12:00-13:00	75.7		
13:00-14:00	73.2		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R20	ACO	6236	00182003
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations,
Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

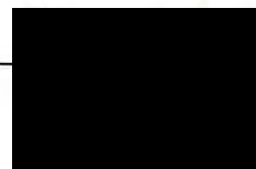
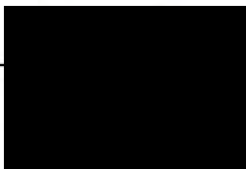
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (South Area)		
	March 2023		
	22-23		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
14:00-15:00	76.0	74.3	104.2
15:00-16:00	76.2		
16:00-17:00	76.4		
17:00-18:00	73.9		
18:00-19:00	72.7		
19:00-20:00	72.4		
20:00-21:00	72.2		
21:00-22:00	71.2		
22:00-23:00	70.8	72.2	91.0
23:00-00:00	71.4		
00:00-01:00	72.3		
01:00-02:00	73.9		
02:00-03:00	72.7		
03:00-04:00	72.3		
04:00-05:00	71.3		
05:00-06:00	72.1		
06:00-07:00	72.8	75.3	100.7
07:00-08:00	73.9		
08:00-09:00	75.2		
09:00-10:00	76.3		
10:00-11:00	77.0		
11:00-12:00	76.1		
12:00-13:00	74.3		
13:00-14:00	75.4		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R20	ACO	6236	00182003
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

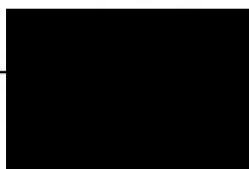
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด
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Tel : (662) 939-4370-72 Fax : (662) 513-4221 E-mail : sale@spscon.com, www.spscon.com

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 17-24 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	New Cooling Tower Area (South Area)		
	March 2023		
	23-24		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
14:00-15:00	78.3	75.7	109.6
15:00-16:00	76.4		
16:00-17:00	76.7		
17:00-18:00	75.6		
18:00-19:00	75.9		
19:00-20:00	73.5		
20:00-21:00	73.7		
21:00-22:00	72.9		
22:00-23:00	72.1	71.9	95.1
23:00-00:00	71.7		
00:00-01:00	71.2		
01:00-02:00	70.7		
02:00-03:00	71.4		
03:00-04:00	71.8		
04:00-05:00	72.7		
05:00-06:00	73.2		
06:00-07:00	73.5	75.2	98.5
07:00-08:00	74.3		
08:00-09:00	75.5		
09:00-10:00	75.7		
10:00-11:00	76.5		
11:00-12:00	75.6		
12:00-13:00	74.4		
13:00-14:00	75.8		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R20	ACO	6236	00182003
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

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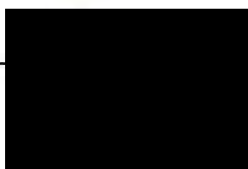
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY215/03/66

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (West Area)		
	March 2023		
	17-18		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
13:00-14:00	80.3	77.9	101.6
14:00-15:00	80.0		
15:00-16:00	77.4		
16:00-17:00	76.7		
17:00-18:00	76.8		
18:00-19:00	76.5		
19:00-20:00	76.7		
20:00-21:00	76.3		
21:00-22:00	76.1	75.9	97.7
22:00-23:00	76.2		
23:00-00:00	76.4		
00:00-01:00	75.5		
01:00-02:00	75.6		
02:00-03:00	75.9		
03:00-04:00	75.5		
04:00-05:00	75.6		
05:00-06:00	75.7	78.2	98.3
06:00-07:00	76.5		
07:00-08:00	76.8		
08:00-09:00	78.3		
09:00-10:00	79.0		
10:00-11:00	78.9		
11:00-12:00	79.9		
12:00-13:00	78.8		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R17	ACO	6236	00172064
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

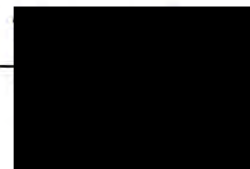
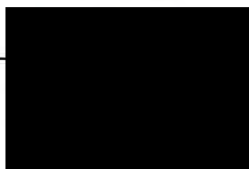
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (West Area)		
	March 2023		
	18-19		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
13:00-14:00	78.5	75.6	96.1
14:00-15:00	77.6		
15:00-16:00	75.2		
16:00-17:00	73.9		
17:00-18:00	74.8		
18:00-19:00	73.7		
19:00-20:00	73.9		
20:00-21:00	73.6		
21:00-22:00	73.7	73.0	89.3
22:00-23:00	73.7		
23:00-00:00	73.2		
00:00-01:00	72.5		
01:00-02:00	73.3		
02:00-03:00	72.6		
03:00-04:00	72.3		
04:00-05:00	72.2	73.8	94.9
05:00-06:00	72.4		
06:00-07:00	73.3		
07:00-08:00	74.0		
08:00-09:00	76.0		
09:00-10:00	74.6		
10:00-11:00	74.3		
11:00-12:00	73.2		
12:00-13:00	71.2		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R17	ACO	6236	00172064
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

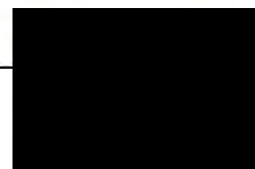
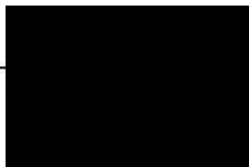
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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (West Area)		
	March 2023		
	19-20		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
13:00-14:00	80.8	78.7	90.5
14:00-15:00	81.7		
15:00-16:00	79.3		
16:00-17:00	77.6		
17:00-18:00	76.9		
18:00-19:00	76.5		
19:00-20:00	76.1		
20:00-21:00	76.3		
21:00-22:00	75.6	75.6	84.1
22:00-23:00	76.0		
23:00-00:00	75.7		
00:00-01:00	75.5		
01:00-02:00	75.7		
02:00-03:00	75.8		
03:00-04:00	74.9		
04:00-05:00	75.6		
05:00-06:00	76.0	79.3	98.8
06:00-07:00	76.4		
07:00-08:00	77.1		
08:00-09:00	80.1		
09:00-10:00	82.4		
10:00-11:00	81.1		
11:00-12:00	79.0		
12:00-13:00	78.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R17	ACO	6236	00172064
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

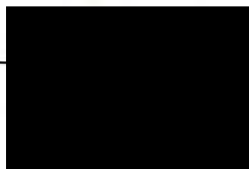
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (West Area)		
	March 2023		
	20-21		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
13:00-14:00	76.0	73.6	105.3
14:00-15:00	75.0		
15:00-16:00	74.8		
16:00-17:00	73.6		
17:00-18:00	72.1		
18:00-19:00	72.2		
19:00-20:00	71.4		
20:00-21:00	70.7		
21:00-22:00	70.2	70.3	95.2
22:00-23:00	70.4		
23:00-00:00	71.0		
00:00-01:00	69.2		
01:00-02:00	69.4		
02:00-03:00	69.7		
03:00-04:00	70.9		
04:00-05:00	71.4		
05:00-06:00	71.7	74.7	90.9
06:00-07:00	72.2		
07:00-08:00	73.1		
08:00-09:00	74.5		
09:00-10:00	74.8		
10:00-11:00	75.0		
11:00-12:00	75.6		
12:00-13:00	77.6		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R17	ACO	6236	00172064
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

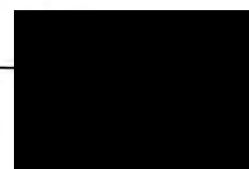
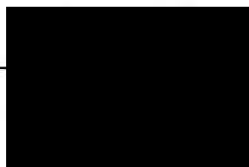
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 17-24 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	New Cooling Tower Area (West Area)		
	March 2023		
	21-22		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
13:00-14:00	72.6	72.1	108.6
14:00-15:00	74.7		
15:00-16:00	74.2		
16:00-17:00	71.8		
17:00-18:00	70.6		
18:00-19:00	69.0		
19:00-20:00	69.5		
20:00-21:00	70.6		
21:00-22:00	71.0	71.6	96.7
22:00-23:00	70.7		
23:00-00:00	70.4		
00:00-01:00	71.7		
01:00-02:00	72.0		
02:00-03:00	72.4		
03:00-04:00	71.9		
04:00-05:00	72.3		
05:00-06:00	73.2	74.2	102.0
06:00-07:00	74.3		
07:00-08:00	72.7		
08:00-09:00	72.0		
09:00-10:00	73.9		
10:00-11:00	74.7		
11:00-12:00	75.1		
12:00-13:00	76.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R17	ACO	6236	00172064
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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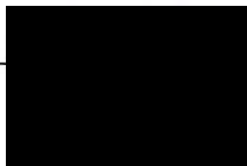
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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (West Area)		
	March 2023		
	22-23		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
13:00-14:00	75.6	74.5	107.5
14:00-15:00	74.8		
15:00-16:00	74.9		
16:00-17:00	74.4		
17:00-18:00	74.4		
18:00-19:00	75.2		
19:00-20:00	73.2		
20:00-21:00	73.1	71.3	81.4
21:00-22:00	72.8		
22:00-23:00	71.9		
23:00-00:00	70.5		
00:00-01:00	69.9		
01:00-02:00	70.3		
02:00-03:00	71.1		
03:00-04:00	71.6	76.1	93.1
04:00-05:00	71.9		
05:00-06:00	73.4		
06:00-07:00	75.3		
07:00-08:00	77.7		
08:00-09:00	75.6		
09:00-10:00	77.1		
10:00-11:00	75.4	76.7	93.1
11:00-12:00	75.9		
12:00-13:00	76.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R17	ACO	6236	00172064
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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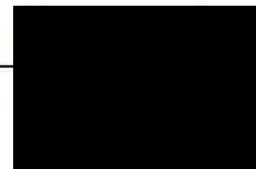
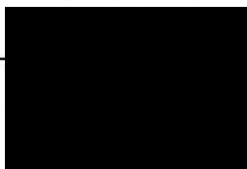
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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Addr: : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (West Area)		
	March 2023		
	23-24		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
13:00-14:00	76.2	73.4	100.7
14:00-15:00	75.3		
15:00-16:00	74.8		
16:00-17:00	73.1		
17:00-18:00	72.8		
18:00-19:00	70.7		
19:00-20:00	70.0		
20:00-21:00	69.3	70.5	93.1
21:00-22:00	68.3		
22:00-23:00	68.4		
23:00-00:00	69.7		
00:00-01:00	70.5		
01:00-02:00	70.3		
02:00-03:00	71.2		
03:00-04:00	71.8		
04:00-05:00	72.1	75.4	101.3
05:00-06:00	72.6		
06:00-07:00	73.0		
07:00-08:00	73.9		
08:00-09:00	75.2		
09:00-10:00	76.1		
10:00-11:00	76.9		
11:00-12:00	77.1		
12:00-13:00	76.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R17	ACO	6236	00172064
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

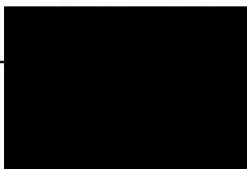
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (North Area)		
	March 2023		
	17-18		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
14:00-15:00	73.8	74.6	103.8
15:00-16:00	74.6		
16:00-17:00	75.3		
17:00-18:00	75.5		
18:00-19:00	74.8		
19:00-20:00	74.9		
20:00-21:00	74.0		
21:00-22:00	73.5		
22:00-23:00	72.3	71.6	81.1
23:00-00:00	72.4		
00:00-01:00	71.0		
01:00-02:00	71.8		
02:00-03:00	72.7		
03:00-04:00	71.6		
04:00-05:00	69.7		
05:00-06:00	70.6		
06:00-07:00	71.4	74.2	108.0
07:00-08:00	72.4		
08:00-09:00	73.4		
09:00-10:00	74.2		
10:00-11:00	74.9		
11:00-12:00	75.3		
12:00-13:00	75.8		
13:00-14:00	74.2		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R18	ACO	6236	00172065
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
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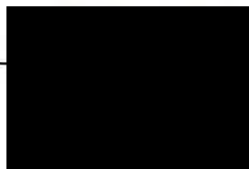
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (North Area)		
	March 2023		
	18-19		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
14:00-15:00	75.8	73.7	102.6
15:00-16:00	75.5		
16:00-17:00	74.5		
17:00-18:00	73.2		
18:00-19:00	73.7		
19:00-20:00	72.5		
20:00-21:00	71.4		
21:00-22:00	70.7		
22:00-23:00	69.7	71.7	85.7
23:00-00:00	71.8		
00:00-01:00	71.6		
01:00-02:00	71.4		
02:00-03:00	71.3		
03:00-04:00	71.8		
04:00-05:00	72.4		
05:00-06:00	72.9		
06:00-07:00	73.2	75.3	97.3
07:00-08:00	74.8		
08:00-09:00	75.0		
09:00-10:00	75.3		
10:00-11:00	75.5		
11:00-12:00	76.1		
12:00-13:00	76.3		
13:00-14:00	75.5		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R18	ACO	6236	00172065
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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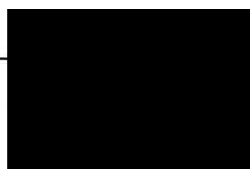
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Sampling Method = Sound Level Meter

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
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Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (North Area)			
	March 2023			
	19-20			
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]	
14:00-15:00	76.3	76.0	93.8	
15:00-16:00	75.6			
16:00-17:00	76.1			
17:00-18:00	77.4			
18:00-19:00	76.3			
19:00-20:00	75.7			
20:00-21:00	74.7			
21:00-22:00	74.9	71.9	99.6	
22:00-23:00	73.3			
23:00-00:00	72.8			
00:00-01:00	72.0			
01:00-02:00	71.9			
02:00-03:00	71.7			
03:00-04:00	70.9			
04:00-05:00	70.5	75.7	100.6	
05:00-06:00	71.7			
06:00-07:00	72.4			
07:00-08:00	73.8			
08:00-09:00	74.9			
09:00-10:00	75.1			
10:00-11:00	76.5			
11:00-12:00	75.8	Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]	
12:00-13:00	76.9			
13:00-14:00	77.7			
Standard				
Sound Level Meter Data				
Calibrate Sheet No.: Noise R_121/23		16 March 2023		
SLM No.	Brand	Model	Serial No.	
ACO-R18	ACO	6236	00172065	
Actual Reading [dB]				
Before Adjustment		After Adjustment		
94.1		94.0		

Remark:

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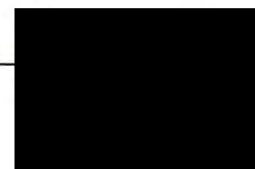
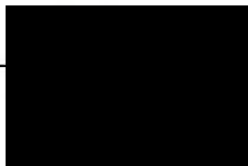
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Sampling Method = Sound Level Meter

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RY215/03/66

193/1/66

Noise Level Report

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Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (North Area)		
	March 2023		
	20-21		
	$L_{eq} 1 \text{ hr [dB(A)]}$	$L_{eq} 8 \text{ hr [dB(A)]}$	$L_{max} [dB(A)]$
14:00-15:00	75.6	75.7	103.3
15:00-16:00	76.4		
16:00-17:00	76.1		
17:00-18:00	75.3		
18:00-19:00	73.7		
19:00-20:00	73.4		
20:00-21:00	77.2		
21:00-22:00	76.6		
22:00-23:00	75.7	73.1	95.1
23:00-00:00	73.2		
00:00-01:00	72.9		
01:00-02:00	72.6		
02:00-03:00	72.0		
03:00-04:00	71.4		
04:00-05:00	72.6		
05:00-06:00	73.1		
06:00-07:00	74.2	75.9	99.7
07:00-08:00	74.7		
08:00-09:00	75.4		
09:00-10:00	76.7		
10:00-11:00	77.1		
11:00-12:00	76.7		
12:00-13:00	75.2		
13:00-14:00	76.4		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R18	ACO	6236	00172065
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations,
Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

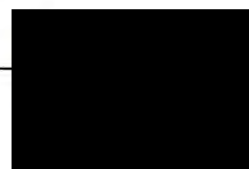
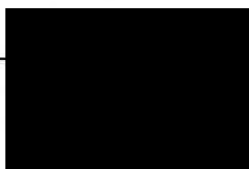
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (North Area)		
	March 2023		
	21-22		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
14:00-15:00	76.4	74.9	103.7
15:00-16:00	75.8		
16:00-17:00	74.9		
17:00-18:00	75.5		
18:00-19:00	73.6		
19:00-20:00	74.3		
20:00-21:00	73.7		
21:00-22:00	74.4		
22:00-23:00	72.6	70.4	79.6
23:00-00:00	72.3		
00:00-01:00	71.1		
01:00-02:00	71.0		
02:00-03:00	68.5		
03:00-04:00	68.1		
04:00-05:00	67.9		
05:00-06:00	68.3		
06:00-07:00	69.7	74.5	104.0
07:00-08:00	71.7		
08:00-09:00	72.3		
09:00-10:00	74.6		
10:00-11:00	76.3		
11:00-12:00	75.5		
12:00-13:00	76.1		
13:00-14:00	75.8		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R18	ACO	6236	00172065
Actual Reading [dB]			
* Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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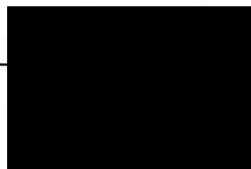
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY215/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
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Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (North Area)		
	March 2023		
	22-23		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
14:00-15:00	78.6	76.7	105.1
15:00-16:00	77.7		
16:00-17:00	77.4		
17:00-18:00	77.2		
18:00-19:00	76.3		
19:00-20:00	75.7		
20:00-21:00	75.0		
21:00-22:00	74.4		
22:00-23:00	75.0	74.7	92.6
23:00-00:00	74.7		
00:00-01:00	73.8		
01:00-02:00	73.5		
02:00-03:00	74.4		
03:00-04:00	74.6		
04:00-05:00	75.3		
05:00-06:00	75.9		
06:00-07:00	76.3	77.4	107.1
07:00-08:00	76.9		
08:00-09:00	78.4		
09:00-10:00	78.5		
10:00-11:00	78.1		
11:00-12:00	77.0		
12:00-13:00	76.4		
13:00-14:00	77.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R18	ACO	6236	00172065
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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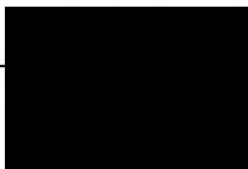
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Sampling Method = Sound Level Meter

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(Khemmarin Thirarathaset)

Technical Supervisor

..... / /

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
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Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 17-24 March 2023
Date Reported : 29 March 2023

Time	New Cooling Tower Area (North Area)		
	March 2023		
	23-24		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
14:00-15:00	77.0	75.7	107.8
15:00-16:00	76.7		
16:00-17:00	76.2		
17:00-18:00	77.2		
18:00-19:00	75.0		
19:00-20:00	74.9		
20:00-21:00	73.7		
21:00-22:00	72.9		
22:00-23:00	72.2	73.6	95.1
23:00-00:00	71.7		
00:00-01:00	71.2		
01:00-02:00	72.7		
02:00-03:00	73.9		
03:00-04:00	75.2		
04:00-05:00	74.6		
05:00-06:00	75.1		
06:00-07:00	75.2	77.6	106.7
07:00-08:00	76.1		
08:00-09:00	77.0		
09:00-10:00	77.3		
10:00-11:00	78.9		
11:00-12:00	77.1		
12:00-13:00	77.6		
13:00-14:00	79.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_121/23		16 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R18	ACO	6236	00172065
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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Diesel Hydrotreating Unit



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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 18-25 March 2023
Date Reported : 29 March 2023

Time	Diesel Hydrotreating Unit Area (East Area)		
	March 2023		
	18-19		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
10:30-11:30	78.0	75.0	96.7
11:30-12:30	76.2		
12:30-13:30	75.6		
13:30-14:30	74.8		
14:30-15:30	73.9		
15:30-16:30	74.3		
16:30-17:30	72.5		
17:30-18:30	70.8		
18:30-19:30	68.2	71.7	86.9
19:30-20:30	69.8		
20:30-21:30	71.6		
21:30-22:30	71.7		
22:30-23:30	72.2		
23:30-00:30	73.3		
00:30-01:30	72.9		
01:30-02:30	72.3		
02:30-03:30	73.7	76.1	106.7
03:30-04:30	74.8		
04:30-05:30	74.4		
05:30-06:30	75.1		
06:30-07:30	76.1		
07:30-08:30	77.3		
08:30-09:30	77.8		
09:30-10:30	77.5		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R15	ACO	6236	00172062
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

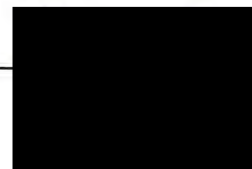
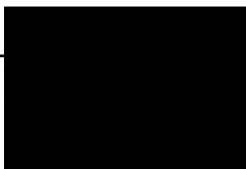
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in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY214/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 18-25 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Addr : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Diesel Hydrotreating Unit Area (East Area)		
	March 2023		
	19-20		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:30-11:30	74.7	73.8	102.0
11:30-12:30	73.2		
12:30-13:30	72.3		
13:30-14:30	71.9		
14:30-15:30	74.6		
15:30-16:30	75.6		
16:30-17:30	73.6		
17:30-18:30	72.9	73.6	87.5
18:30-19:30	71.3		
19:30-20:30	70.8		
20:30-21:30	71.7		
21:30-22:30	72.4		
22:30-23:30	73.7		
23:30-00:30	74.1		
00:30-01:30	75.5	75.6	96.3
01:30-02:30	76.2		
02:30-03:30	76.8		
03:30-04:30	76.9		
04:30-05:30	75.8		
05:30-06:30	75.0		
06:30-07:30	75.1		
07:30-08:30	75.2		
08:30-09:30	74.4		
09:30-10:30	75.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R15	ACO	6236	00172062
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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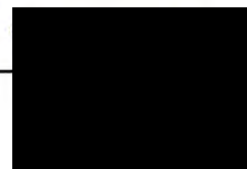
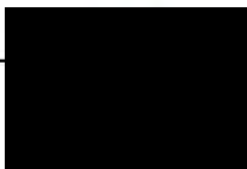
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Sampling Method = Sound Level Meter

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Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
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Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 18-25 March 2023
Date Reported : 29 March 2023

Time	Diesel Hydrotreating Unit Area (East Area)		
	March 2023		
	20-21		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
10:30-11:30	70.2	71.1	101.1
11:30-12:30	68.9		
12:30-13:30	69.1		
13:30-14:30	70.6		
14:30-15:30	72.4		
15:30-16:30	74.0		
16:30-17:30	71.0		
17:30-18:30	70.2	73.6	80.3
18:30-19:30	71.0		
19:30-20:30	71.4		
20:30-21:30	72.1		
21:30-22:30	73.2		
22:30-23:30	74.1		
23:30-00:30	74.6		
00:30-01:30	75.3	75.8	97.8
01:30-02:30	75.2		
02:30-03:30	76.0		
03:30-04:30	76.6		
04:30-05:30	76.9		
05:30-06:30	75.2		
06:30-07:30	75.0		
07:30-08:30	74.5		
08:30-09:30	76.0		
09:30-10:30	75.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R15	ACO	6236	00172062
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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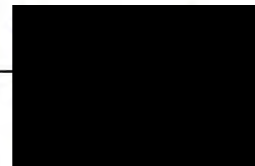
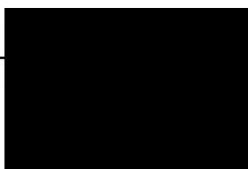
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Sampling Method = Sound Level Meter

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 18-25 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000.
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Diesel Hydrotreating Unit Area (East Area)		
	March 2023		
	21-22		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:30-11:30	73.0	71.9	93.7
11:30-12:30	71.2		
12:30-13:30	70.4		
13:30-14:30	69.8		
14:30-15:30	71.1		
15:30-16:30	71.8		
16:30-17:30	73.0		
17:30-18:30	73.5		
18:30-19:30	75.0	75.3	91.7
19:30-20:30	75.5		
20:30-21:30	76.3		
21:30-22:30	76.2		
22:30-23:30	75.2		
23:30-00:30	73.9		
00:30-01:30	74.0		
01:30-02:30	75.6		
02:30-03:30	75.2	76.1	101.4
03:30-04:30	74.3		
04:30-05:30	75.0		
05:30-06:30	76.6		
06:30-07:30	76.3		
07:30-08:30	76.1		
08:30-09:30	76.1		
09:30-10:30	78.3		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R15	ACO	6236	00172062
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

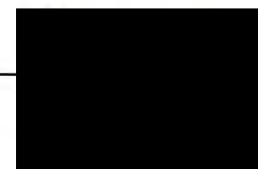
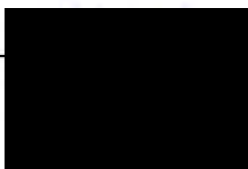
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY214/03/66

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 18-25 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Diesel Hydrotreating Unit Area (East Area)		
	March 2023		
	22-23		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:30-11:30	75.8	76.4	101.6
11:30-12:30	74.0		
12:30-13:30	73.1		
13:30-14:30	76.0		
14:30-15:30	78.4		
15:30-16:30	79.4		
16:30-17:30	75.1		
17:30-18:30	76.1	73.1	93.6
18:30-19:30	78.0		
19:30-20:30	74.3		
20:30-21:30	72.3		
21:30-22:30	70.7		
22:30-23:30	70.5		
23:30-00:30	69.8		
00:30-01:30	70.1		
01:30-02:30	71.5	73.0	106.7
02:30-03:30	70.6		
03:30-04:30	71.0		
04:30-05:30	72.5		
05:30-06:30	72.4		
06:30-07:30	73.3		
07:30-08:30	75.8		
08:30-09:30	73.3	73.1	73.1
09:30-10:30	73.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R15	ACO	6236	00172062
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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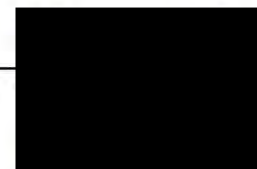
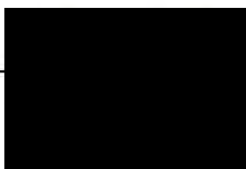
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY214/03/66

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 18-25 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Diesel Hydrotreating Unit Area (East Area)		
	March 2023		
	23-24		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
10:30-11:30	75.8	74.9	101.2
11:30-12:30	74.5		
12:30-13:30	74.2		
13:30-14:30	74.4		
14:30-15:30	74.6		
15:30-16:30	76.3		
16:30-17:30	75.0		
17:30-18:30	73.7		
18:30-19:30	75.6	75.0	99.1
19:30-20:30	74.3		
20:30-21:30	75.8		
21:30-22:30	76.1		
22:30-23:30	75.7		
23:30-00:30	75.1		
00:30-01:30	73.9		
01:30-02:30	72.4		
02:30-03:30	71.7	73.3	108.6
03:30-04:30	70.3		
04:30-05:30	71.4		
05:30-06:30	71.6		
06:30-07:30	73.7		
07:30-08:30	75.3		
08:30-09:30	75.5		
09:30-10:30	74.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R15	ACO	6236	00172062
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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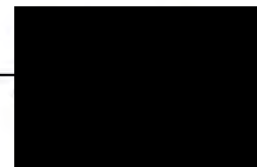
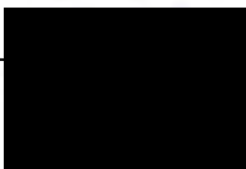
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY214/03/66

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 18-25 March 2023
Date Reported : 29 March 2023

Time	Diesel Hydrotreating Unit Area (East Area)		
	March 2023		
	24-25		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
10:30-11:30	75.8	74.8	105.9
11:30-12:30	73.9		
12:30-13:30	75.2		
13:30-14:30	74.9		
14:30-15:30	74.1		
15:30-16:30	75.7		
16:30-17:30	73.8		
17:30-18:30	74.6	73.2	89.0
18:30-19:30	75.4		
19:30-20:30	74.0		
20:30-21:30	73.8		
21:30-22:30	73.4		
22:30-23:30	73.2		
23:30-00:30	72.3		
00:30-01:30	71.3	72.6	97.6
01:30-02:30	70.5		
02:30-03:30	70.2		
03:30-04:30	71.7		
04:30-05:30	70.0		
05:30-06:30	71.2		
06:30-07:30	73.2		
07:30-08:30	73.8	74.8	97.6
08:30-09:30	74.8		
09:30-10:30	73.4		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R15	ACO	6236	00172062
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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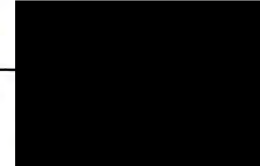
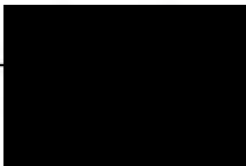
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY214/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 18-25 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Diesel Hydrotreating Unit Area (South Area)		
	March 2023		
	18-19		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
09:30-10:30	78.4	78.3	98.2
10:30-11:30	79.8		
11:30-12:30	80.4		
12:30-13:30	79.1		
13:30-14:30	77.8		
14:30-15:30	77.3		
15:30-16:30	76.6		
16:30-17:30	72.9		
17:30-18:30	74.4	74.8	86.6
18:30-19:30	73.8		
19:30-20:30	73.5		
20:30-21:30	74.5		
21:30-22:30	75.5		
22:30-23:30	76.1		
23:30-00:30	75.7		
00:30-01:30	74.7		
01:30-02:30	74.4	73.4	101.7
02:30-03:30	73.5		
03:30-04:30	72.8		
04:30-05:30	71.8		
05:30-06:30	71.4		
06:30-07:30	72.7		
07:30-08:30	74.0		
08:30-09:30	75.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R24	ACO	6236	00192036
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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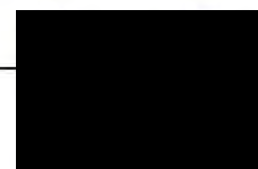
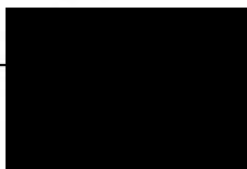
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY214/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 18-25 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Diesel Hydrotreating Unit Area (South Area)		
	March 2023		
	19-20		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
09:30-10:30	72.9	75.9	100.4
10:30-11:30	75.8		
11:30-12:30	76.1		
12:30-13:30	75.4		
13:30-14:30	75.7		
14:30-15:30	76.1		
15:30-16:30	76.4		
16:30-17:30	77.5		
17:30-18:30	78.8	75.3	84.4
18:30-19:30	77.8		
19:30-20:30	75.5		
20:30-21:30	74.5		
21:30-22:30	72.3		
22:30-23:30	71.8		
23:30-00:30	72.0		
00:30-01:30	73.4		
01:30-02:30	72.4	72.3	94.2
02:30-03:30	70.4		
03:30-04:30	69.6		
04:30-05:30	70.3		
05:30-06:30	71.7		
06:30-07:30	72.9		
07:30-08:30	73.6		
08:30-09:30	74.8		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R24	ACO	6236	00192036
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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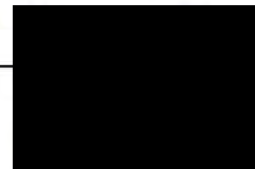
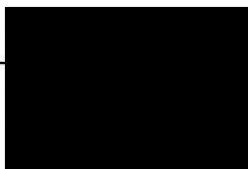
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000.
Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 18-25 March 2023
Date Reported : 29 March 2023

Time	Diesel Hydrotreating Unit Area (South Area)		
	March 2023		
	20-21		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
09:30-10:30	76.7	74.7	102.6
10:30-11:30	75.1		
11:30-12:30	73.0		
12:30-13:30	72.7		
13:30-14:30	74.3		
14:30-15:30	76.0		
15:30-16:30	75.2		
16:30-17:30	72.9		
17:30-18:30	71.4	70.6	93.2
18:30-19:30	70.4		
19:30-20:30	69.9		
20:30-21:30	69.6		
21:30-22:30	70.8		
22:30-23:30	71.9		
23:30-00:30	70.7		
00:30-01:30	69.9		
01:30-02:30	71.0	72.7	101.7
02:30-03:30	71.2		
03:30-04:30	72.2		
04:30-05:30	73.1		
05:30-06:30	73.1		
06:30-07:30	74.8		
07:30-08:30	72.9		
08:30-09:30	72.6		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R24	ACO	6236	00192036
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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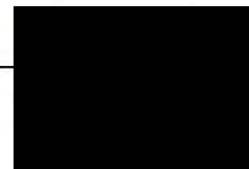
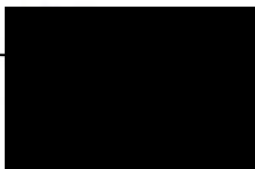
Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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Tel : (662) 939-4370-72, Fax : (662) 513-4221, E-mail : sale@spscon.com., www.spscon.com

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RY214/03/66

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 18-25 March 2023
Date Reported : 29 March 2023

Time	Diesel Hydrotreating Unit Area (South Area)		
	March 2023		
	21-22		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
09:30-10:30	76.6	76.9	98.2
10:30-11:30	77.1		
11:30-12:30	78.5		
12:30-13:30	77.8		
13:30-14:30	76.9		
14:30-15:30	76.8		
15:30-16:30	75.5		
16:30-17:30	74.9		
17:30-18:30	72.9	70.7	101.4
18:30-19:30	71.7		
19:30-20:30	70.5		
20:30-21:30	68.6		
21:30-22:30	68.4		
22:30-23:30	69.5		
23:30-00:30	70.6		
00:30-01:30	71.5		
01:30-02:30	72.3	75.0	97.5
02:30-03:30	73.4		
03:30-04:30	73.6		
04:30-05:30	74.4		
05:30-06:30	75.4		
06:30-07:30	76.3		
07:30-08:30	75.9		
08:30-09:30	76.5		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R24	ACO	6236	00192036
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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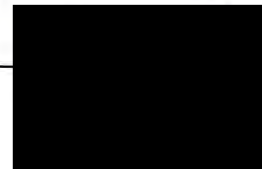
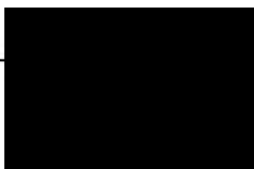
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY214/03/66

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Noise Level Report

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Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
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Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 18-25 March 2023
Date Reported : 29 March 2023

Time	Diesel Hydrotreating Unit Area (South Area)		
	March 2023		
	22-23		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
09:30-10:30	78.5	76.5	98.8
10:30-11:30	76.0		
11:30-12:30	75.1		
12:30-13:30	74.2		
13:30-14:30	76.5		
14:30-15:30	76.9		
15:30-16:30	77.3		
16:30-17:30	76.1		
17:30-18:30	74.7	72.0	86.4
18:30-19:30	73.5		
19:30-20:30	71.9		
20:30-21:30	69.8		
21:30-22:30	69.7		
22:30-23:30	70.8		
23:30-00:30	71.9		
00:30-01:30	70.8		
01:30-02:30	69.9	72.0	102.7
02:30-03:30	71.3		
03:30-04:30	70.8		
04:30-05:30	70.2		
05:30-06:30	71.1		
06:30-07:30	72.6		
07:30-08:30	74.1		
08:30-09:30	73.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R24	ACO	6236	00192036
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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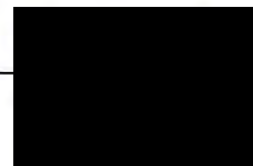
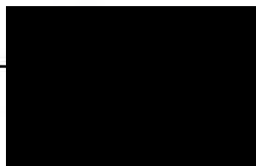
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RY214/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 18-25 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Diesel Hydrotreating Unit Area (South Area)		
	March 2023		
	23-24		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
09:30-10:30	75.7	75.9	104.8
10:30-11:30	73.7		
11:30-12:30	74.1		
12:30-13:30	75.5		
13:30-14:30	76.9		
14:30-15:30	77.7		
15:30-16:30	76.8		
16:30-17:30	75.1		
17:30-18:30	74.8	72.6	92.9
18:30-19:30	73.5		
19:30-20:30	73.4		
20:30-21:30	73.3		
21:30-22:30	72.2		
22:30-23:30	69.7		
23:30-00:30	70.7		
00:30-01:30	71.2		
01:30-02:30	71.0	72.8	96.3
02:30-03:30	69.2		
03:30-04:30	70.1		
04:30-05:30	71.2		
05:30-06:30	72.4		
06:30-07:30	73.6		
07:30-08:30	75.2		
08:30-09:30	75.6		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R24	ACO	6236	00192036
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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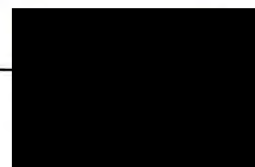
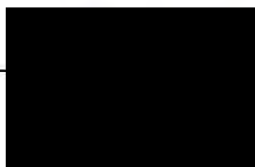
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Sampling Method = Sound Level Meter

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 18-25 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Diesel Hydrotreating Unit Area (South Area)		
	March 2023		
	24-25		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
09:30-10:30	76.1	75.9	100.2
10:30-11:30	74.2		
11:30-12:30	73.7		
12:30-13:30	75.4		
13:30-14:30	76.7		
14:30-15:30	77.2		
15:30-16:30	77.4		
16:30-17:30	75.2		
17:30-18:30	73.4	71.3	88.2
18:30-19:30	71.7		
19:30-20:30	70.9		
20:30-21:30	70.4		
21:30-22:30	68.8		
22:30-23:30	70.3		
23:30-00:30	71.8		
00:30-01:30	71.9		
01:30-02:30	72.4	73.7	99.0
02:30-03:30	71.8		
03:30-04:30	71.0		
04:30-05:30	71.9		
05:30-06:30	73.1		
06:30-07:30	73.8		
07:30-08:30	75.8		
08:30-09:30	76.4		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R24	ACO	6236	00192036
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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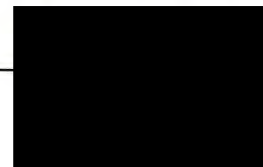
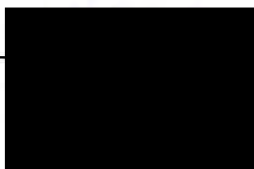
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY214/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 18-25 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Diesel Hydrotreating Unit Area (West Area)		
	March 2023		
	18-19		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
09:15-10:15	76.0	75.8	108.3
10:15-11:15	75.5		
11:15-12:15	74.4		
12:15-13:15	74.8		
13:15-14:15	76.5		
14:15-15:15	76.1		
15:15-16:15	77.0		
16:15-17:15	75.2		
17:15-18:15	73.5	71.1	94.7
18:15-19:15	71.3		
19:15-20:15	70.8		
20:15-21:15	70.8		
21:15-22:15	70.1		
22:15-23:15	70.7		
23:15-00:15	69.4		
00:15-01:15	70.6		
01:15-02:15	72.0	72.4	95.6
02:15-03:15	70.7		
03:15-04:15	71.8		
04:15-05:15	71.3		
05:15-06:15	71.0		
06:15-07:15	72.8		
07:15-08:15	73.2		
08:15-09:15	74.6		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R42	ACO	6236	00192054
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

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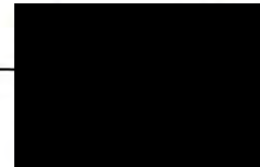
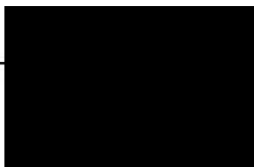
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Sampling Method = Sound Level Meter

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Noise Level Report

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Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Diesel Hydrotreating Unit Area (West Area)		
	March 2023		
	19-20		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
09:15-10:15	74.7	75.1	93.3
10:15-11:15	75.1		
11:15-12:15	76.0		
12:15-13:15	75.6		
13:15-14:15	74.1		
14:15-15:15	74.6		
15:15-16:15	75.2		
16:15-17:15	75.3		
17:15-18:15	74.2	72.3	83.8
18:15-19:15	74.3		
19:15-20:15	73.0		
20:15-21:15	71.0		
21:15-22:15	70.9		
22:15-23:15	71.2		
23:15-00:15	71.7		
00:15-01:15	69.6		
01:15-02:15	70.5	75.3	103.8
02:15-03:15	71.2		
03:15-04:15	73.9		
04:15-05:15	74.6		
05:15-06:15	75.1		
06:15-07:15	76.8		
07:15-08:15	78.0		
08:15-09:15	77.2		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R42	ACO	6236	00192054
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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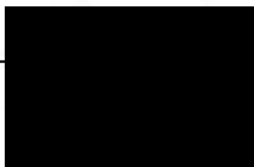
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Sampling Method = Sound Level Meter

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Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 18-25 March 2023
Date Reported : 29 March 2023

Time	Diesel Hydrotreating Unit Area (West Area)		
	March 2023		
	20-21		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
09:15-10:15	77.9	77.5	104.9
10:15-11:15	77.2		
11:15-12:15	76.5		
12:15-13:15	77.7		
13:15-14:15	77.8		
14:15-15:15	78.9		
15:15-16:15	77.0		
16:15-17:15	76.7		
17:15-18:15	75.2	73.9	87.9
18:15-19:15	74.8		
19:15-20:15	74.1		
20:15-21:15	74.0		
21:15-22:15	73.9		
22:15-23:15	73.4		
23:15-00:15	72.9		
00:15-01:15	72.4		
01:15-02:15	72.1	74.3	98.7
02:15-03:15	70.6		
03:15-04:15	72.6		
04:15-05:15	73.8		
05:15-06:15	73.9		
06:15-07:15	74.6		
07:15-08:15	76.3		
08:15-09:15	76.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R42	ACO	6236	00192054
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

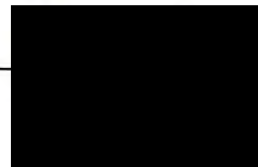
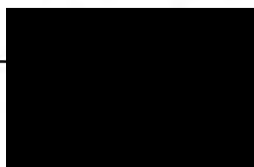
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY214/03/66

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 18-25 March 2023
Date Reported : 29 March 2023

Time	Diesel Hydrotreating Unit Area (West Area)		
	March 2023		
	21-22		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
09:15-10:15	77.2	76.3	97.1
10:15-11:15	76.5		
11:15-12:15	75.5		
12:15-13:15	76.0		
13:15-14:15	77.0		
14:15-15:15	76.4		
15:15-16:15	76.1		
16:15-17:15	75.3		
17:15-18:15	75.0	73.8	88.4
18:15-19:15	74.9		
19:15-20:15	74.4		
20:15-21:15	74.8		
21:15-22:15	73.9		
22:15-23:15	72.8		
23:15-00:15	71.4		
00:15-01:15	70.9		
01:15-02:15	71.4	74.5	93.2
02:15-03:15	72.6		
03:15-04:15	73.0		
04:15-05:15	75.1		
05:15-06:15	74.8		
06:15-07:15	75.1		
07:15-08:15	75.6		
08:15-09:15	76.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R42	ACO	6236	00192054
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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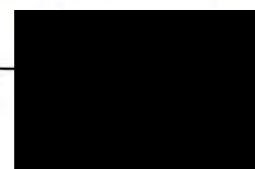
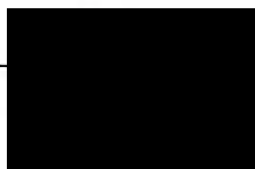
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Sampling Method = Sound Level Meter

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RY214/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 18-25 March 2023
Date Reported : 29 March 2023

Time	Diesel Hydrotreating Unit Area (West Area)		
	March 2023		
	22-23		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
09:15-10:15	76.9	76.1	103.0
10:15-11:15	75.8		
11:15-12:15	75.1		
12:15-13:15	75.6		
13:15-14:15	76.2		
14:15-15:15	76.5		
15:15-16:15	76.7		
16:15-17:15	75.7		
17:15-18:15	74.8	74.1	82.6
18:15-19:15	74.6		
19:15-20:15	74.3		
20:15-21:15	73.2		
21:15-22:15	74.0		
22:15-23:15	74.4		
23:15-00:15	74.0		
00:15-01:15	72.9		
01:15-02:15	71.3	72.4	93.8
02:15-03:15	70.3		
03:15-04:15	69.8		
04:15-05:15	70.4		
05:15-06:15	71.6		
06:15-07:15	72.6		
07:15-08:15	74.2		
08:15-09:15	75.5		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R42	ACO	6236	00192054
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

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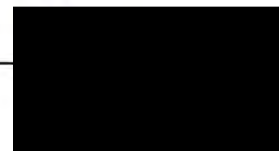
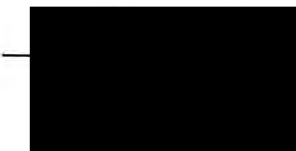
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Sampling Method = Sound Level Meter

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RY214/03/66

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 18-25 March 2023
Date Reported : 29 March 2023

Time	Diesel Hydrotreating Unit Area (West Area)			
	March 2023			
	23-24			
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]	
09:15-10:15	73.7	74.6	99.0	
10:15-11:15	72.2			
11:15-12:15	72.3			
12:15-13:15	74.4			
13:15-14:15	75.4			
14:15-15:15	76.3			
15:15-16:15	75.7			
16:15-17:15	74.7	71.7	84.0	
17:15-18:15	73.4			
18:15-19:15	72.6			
19:15-20:15	72.0			
20:15-21:15	71.6			
21:15-22:15	71.9			
22:15-23:15	70.9			
23:15-00:15	70.3	73.4	101.7	
00:15-01:15	69.7			
01:15-02:15	71.5			
02:15-03:15	71.7			
03:15-04:15	72.3			
04:15-05:15	72.0			
05:15-06:15	73.8			
06:15-07:15	74.4	Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]	
07:15-08:15	74.6			
08:15-09:15	75.3			
Standard				
Sound Level Meter Data				
Calibrate Sheet No.: Noise R_124/23		17 March 2023		
SLM No.	Brand	Model	Serial No.	
ACO-R42	ACO	6236	00192054	
Actual Reading [dB]				
Before Adjustment		After Adjustment		
94.0		94.0		

Remark:

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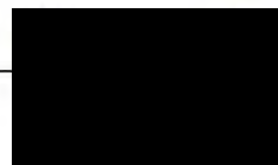
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in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY214/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 18-25 March 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 29 March 2023
Mueang, Rayong 21000
Client Name/Addr : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Diesel Hydrotreating Unit Area (West Area)		
	March 2023		
	24-25		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
09:15-10:15	74.2	74.1	106.0
10:15-11:15	72.3		
11:15-12:15	72.7		
12:15-13:15	74.8		
13:15-14:15	75.9		
14:15-15:15	75.4		
15:15-16:15	73.8		
16:15-17:15	72.4	71.4	77.7
17:15-18:15	71.7		
18:15-19:15	71.5		
19:15-20:15	71.3		
20:15-21:15	71.3		
21:15-22:15	71.3		
22:15-23:15	71.3		
23:15-00:15	71.3	72.5	100.0
00:15-01:15	71.3		
01:15-02:15	71.3		
02:15-03:15	71.3		
03:15-04:15	71.3		
04:15-05:15	71.3		
05:15-06:15	71.6		
06:15-07:15	73.1	74.2	
07:15-08:15	74.2		
08:15-09:15	74.2		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R42	ACO	6236	00192054
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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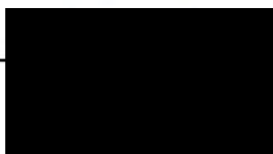
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY214/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 18-25 March 2023
Date Reported : 29 March 2023

Time	Diesel Hydrotreating Unit Area (North Area)		
	March 2023		
	18-19		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:30-11:30	75.9	78.8	91.1
11:30-12:30	76.5		
12:30-13:30	77.2		
13:30-14:30	79.8		
14:30-15:30	81.3		
15:30-16:30	80.0		
16:30-17:30	79.2		
17:30-18:30	77.3		
18:30-19:30	75.4	73.0	92.7
19:30-20:30	73.5		
20:30-21:30	71.8		
21:30-22:30	71.3		
22:30-23:30	72.2		
23:30-00:30	73.6		
00:30-01:30	73.4		
01:30-02:30	71.3		
02:30-03:30	71.4	73.5	96.7
03:30-04:30	70.7		
04:30-05:30	71.6		
05:30-06:30	71.8		
06:30-07:30	72.3		
07:30-08:30	73.8		
08:30-09:30	75.6		
09:30-10:30	76.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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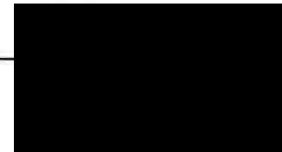
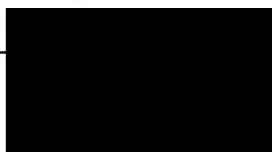
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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 18-25 March 2023
Date Reported : 29 March 2023

Time	Diesel Hydrotreating Unit Area (North Area)		
	March 2023		
	19-20		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:30-11:30	77.4	76.3	103.7
11:30-12:30	76.0		
12:30-13:30	75.7		
13:30-14:30	76.6		
14:30-15:30	77.8		
15:30-16:30	76.3		
16:30-17:30	75.0		
17:30-18:30	74.2		
18:30-19:30	73.8	73.6	94.7
19:30-20:30	73.3		
20:30-21:30	73.0		
21:30-22:30	71.6		
22:30-23:30	70.9		
23:30-00:30	73.1		
00:30-01:30	75.0		
01:30-02:30	75.9		
02:30-03:30	75.9	75.4	95.6
03:30-04:30	75.0		
04:30-05:30	74.3		
05:30-06:30	74.0		
06:30-07:30	75.3		
07:30-08:30	76.5		
08:30-09:30	75.9		
09:30-10:30	76.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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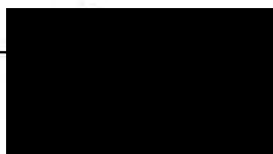
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RY214/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 18-25 March 2023
Date Reported : 29 March 2023

Time	Diesel Hydrotreating Unit Area (North Area)		
	March 2023		
	20-21		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:30-11:30	74.9	76.9	97.5
11:30-12:30	74.5		
12:30-13:30	76.2		
13:30-14:30	78.4		
14:30-15:30	78.2		
15:30-16:30	77.9		
16:30-17:30	77.4		
17:30-18:30	75.9		
18:30-19:30	73.8	72.4	93.0
19:30-20:30	74.4		
20:30-21:30	72.2		
21:30-22:30	72.8		
22:30-23:30	72.0		
23:30-00:30	70.8		
00:30-01:30	70.4		
01:30-02:30	71.5		
02:30-03:30	71.8	73.7	99.8
03:30-04:30	70.7		
04:30-05:30	71.1		
05:30-06:30	71.7		
06:30-07:30	72.3		
07:30-08:30	74.7		
08:30-09:30	75.5		
09:30-10:30	77.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations,
Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY214/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 18-25 March 2023
Date Reported : 29 March 2023

Time	Diesel Hydrotreating Unit Area (North Area)		
	March 2023		
	21-22		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
10:30-11:30	74.4	74.5	96.5
11:30-12:30	73.2		
12:30-13:30	75.2		
13:30-14:30	74.5		
14:30-15:30	73.2		
15:30-16:30	74.9		
16:30-17:30	75.3		
17:30-18:30	74.9		
18:30-19:30	73.8	71.0	102.7
19:30-20:30	71.9		
20:30-21:30	69.0		
21:30-22:30	70.9		
22:30-23:30	70.6		
23:30-00:30	70.1		
00:30-01:30	69.9		
01:30-02:30	70.1		
02:30-03:30	70.8	73.1	95.5
03:30-04:30	71.9		
04:30-05:30	72.1		
05:30-06:30	72.3		
06:30-07:30	72.9		
07:30-08:30	73.7		
08:30-09:30	74.1		
09:30-10:30	75.0		
Standard		Less Than 90.0 ⁽¹⁾	Less Than 140.0 ⁽¹⁾ , 115.0 ⁽²⁾
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23			
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Standard⁽¹⁾ = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

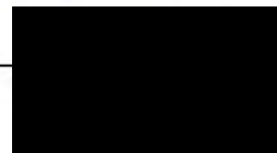
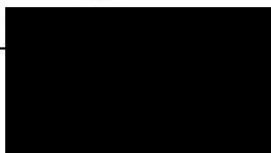
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY214/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 18-25 March 2023
Date Reported : 29 March 2023

Time	Diesel Hydrotreating Unit Area (North Area)		
	March 2023		
	22-23		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:30-11:30	73.1	73.9	95.3
11:30-12:30	74.4		
12:30-13:30	73.9		
13:30-14:30	73.2		
14:30-15:30	73.4		
15:30-16:30	74.3		
16:30-17:30	74.7		
17:30-18:30	73.8		
18:30-19:30	72.2	68.9	93.6
19:30-20:30	70.8		
20:30-21:30	68.6		
21:30-22:30	67.0		
22:30-23:30	66.7		
23:30-00:30	66.4		
00:30-01:30	67.6		
01:30-02:30	68.3		
02:30-03:30	68.8	72.4	101.8
03:30-04:30	69.4		
04:30-05:30	70.7		
05:30-06:30	71.6		
06:30-07:30	72.6		
07:30-08:30	73.4		
08:30-09:30	74.0		
09:30-10:30	75.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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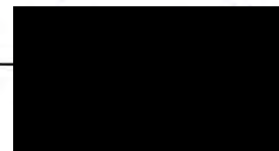
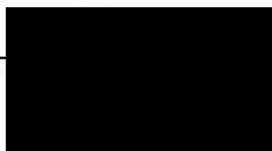
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY214/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 18-25 March 2023
Date Reported : 29 March 2023

Time	Diesel Hydrotreating Unit Area (North Area)		
	March 2023		
	23-24		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
10:30-11:30	71.5	76.0	94.1
11:30-12:30	72.6		
12:30-13:30	73.9		
13:30-14:30	74.5		
14:30-15:30	75.7		
15:30-16:30	77.3		
16:30-17:30	78.6		
17:30-18:30	78.2		
18:30-19:30	77.7	74.2	92.3
19:30-20:30	75.2		
20:30-21:30	75.1		
21:30-22:30	73.6		
22:30-23:30	72.3		
23:30-00:30	72.9		
00:30-01:30	71.5		
01:30-02:30	70.8		
02:30-03:30	69.9	73.7	103.4
03:30-04:30	71.3		
04:30-05:30	71.6		
05:30-06:30	72.8		
06:30-07:30	73.5		
07:30-08:30	74.7		
08:30-09:30	75.1		
09:30-10:30	76.8		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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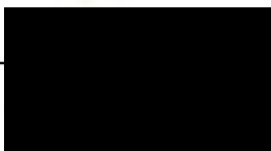
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Sampling Method = Sound Level Meter

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RY214/03/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address: Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 18-25 March 2023
Date Reported : 29 March 2023

Time	Diesel Hydrotreating Unit Area (North Area)		
	March 2023		
	24-25		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
10:30-11:30	75.9	76.5	98.6
11:30-12:30	75.1		
12:30-13:30	75.7		
13:30-14:30	77.8		
14:30-15:30	78.9		
15:30-16:30	77.0		
16:30-17:30	75.4		
17:30-18:30	74.4		
18:30-19:30	74.7	72.4	95.6
19:30-20:30	73.6		
20:30-21:30	72.1		
21:30-22:30	72.0		
22:30-23:30	71.6		
23:30-00:30	70.9		
00:30-01:30	71.6		
01:30-02:30	71.1		
02:30-03:30	70.7	73.2	93.1
03:30-04:30	71.4		
04:30-05:30	71.0		
05:30-06:30	70.8		
06:30-07:30	72.6		
07:30-08:30	74.5		
08:30-09:30	75.1		
09:30-10:30	75.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_124/23		17 March 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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Enclosed Ground Flare





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1/7

RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (East Area)		
	May 2023		
	2-3		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	73.1	75.2	101.8
12:00-13:00	73.2		
13:00-14:00	72.7		
14:00-15:00	76.6		
15:00-16:00	76.5		
16:00-17:00	77.3		
17:00-18:00	75.4		
18:00-19:00	74.4		
19:00-20:00	71.4	69.7	89.4
20:00-21:00	72.3		
21:00-22:00	70.0		
22:00-23:00	69.3		
23:00-00:00	68.7		
00:00-01:00	67.7		
01:00-02:00	67.6		
02:00-03:00	68.3		
03:00-04:00	69.9	73.6	99.6
04:00-05:00	69.7		
05:00-06:00	71.5		
06:00-07:00	73.9		
07:00-08:00	75.4		
08:00-09:00	74.4		
09:00-10:00	73.8		
10:00-11:00	75.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R09	ACO	6236	00172035
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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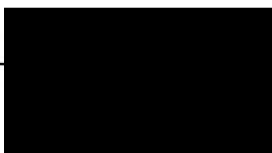
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Sampling Method = Sound Level Meter

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RS/H008/23/MAY



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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (East Area)		
	May 2023		
	3-4		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	76.4	74.8	105.8
12:00-13:00	75.8		
13:00-14:00	74.9		
14:00-15:00	74.2		
15:00-16:00	75.9		
16:00-17:00	73.7		
17:00-18:00	73.6		
18:00-19:00	72.4		
19:00-20:00	70.4	69.2	95.0
20:00-21:00	67.7		
21:00-22:00	69.3		
22:00-23:00	69.8		
23:00-00:00	70.4		
00:00-01:00	68.4		
01:00-02:00	68.3		
02:00-03:00	68.5		
03:00-04:00	68.6	72.5	82.3
04:00-05:00	69.3		
05:00-06:00	69.6		
06:00-07:00	71.7		
07:00-08:00	72.2		
08:00-09:00	74.6		
09:00-10:00	74.1		
10:00-11:00	75.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R09	ACO	6236	00172035
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (East Area)		
	May 2023		
	4-5		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	75.5	75.0	99.9
12:00-13:00	74.1		
13:00-14:00	75.0		
14:00-15:00	77.2		
15:00-16:00	75.1		
16:00-17:00	75.2		
17:00-18:00	73.3		
18:00-19:00	73.4		
19:00-20:00	71.9	71.0	93.4
20:00-21:00	73.0		
21:00-22:00	71.2		
22:00-23:00	69.9		
23:00-00:00	69.6		
00:00-01:00	71.8		
01:00-02:00	69.0		
02:00-03:00	69.8		
03:00-04:00	70.3	73.3	101.1
04:00-05:00	70.4		
05:00-06:00	71.3		
06:00-07:00	72.7		
07:00-08:00	73.2		
08:00-09:00	74.8		
09:00-10:00	74.5		
10:00-11:00	75.5		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R09	ACO	6236	00172035
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations,

Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong, 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (East Area)		
	May 2023		
	5-6		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
11:00-12:00	76.1	80.7	103.2
12:00-13:00	74.6		
13:00-14:00	77.2		
14:00-15:00	81.2		
15:00-16:00	83.5		
16:00-17:00	84.3		
17:00-18:00	80.0		
18:00-19:00	79.7		
19:00-20:00	76.8	72.4	83.7
20:00-21:00	72.5		
21:00-22:00	71.4		
22:00-23:00	71.2		
23:00-00:00	71.0		
00:00-01:00	70.8		
01:00-02:00	70.5		
02:00-03:00	70.3		
03:00-04:00	70.4	75.4	104.5
04:00-05:00	71.6		
05:00-06:00	72.7		
06:00-07:00	74.0		
07:00-08:00	74.5		
08:00-09:00	75.9		
09:00-10:00	77.1		
10:00-11:00	79.4		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R09	ACO	6236	00172035
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

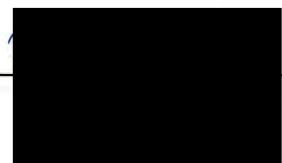
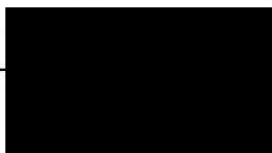
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (East Area)		
	May 2023		
	6-7		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
14:00-15:00	73.2	75.4	105.7
15:00-16:00	76.6		
13:00-14:00	77.2		
14:00-15:00	81.2		
15:00-16:00	83.5		
16:00-17:00	84.3		
17:00-18:00	80.0		
18:00-19:00	79.7	70.3	98.6
19:00-20:00	76.8		
20:00-21:00	72.5		
21:00-22:00	71.4		
22:00-23:00	71.2		
23:00-00:00	71.0		
00:00-01:00	70.8	72.7	101.7
01:00-02:00	70.5		
02:00-03:00	70.3		
03:00-04:00	70.4		
04:00-05:00	71.6		
05:00-06:00	72.7		
06:00-07:00	74.0		
07:00-08:00	74.5		
08:00-09:00	75.9		
09:00-10:00	77.1		
10:00-11:00	79.4		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R09	ACO	6236	00172035
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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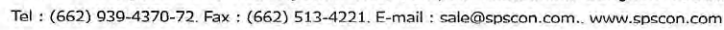
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Enclosed Ground Flare Area (East Area)		
	May 2023		
	8-9		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	74.1	75.6	108.9
12:00-13:00	73.5		
13:00-14:00	75.6		
14:00-15:00	77.7		
15:00-16:00	76.9		
16:00-17:00	75.8		
17:00-18:00	76.1		
18:00-19:00	72.3		
19:00-20:00	68.8	69.6	87.2
20:00-21:00	69.4		
21:00-22:00	70.1		
22:00-23:00	70.9		
23:00-00:00	69.7		
00:00-01:00	69.3		
01:00-02:00	69.0		
02:00-03:00	69.1		
03:00-04:00	69.6	74.0	107.9
04:00-05:00	69.8		
05:00-06:00	70.6		
06:00-07:00	71.6		
07:00-08:00	72.5		
08:00-09:00	74.5		
09:00-10:00	76.4		
10:00-11:00	78.2		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R09	ACO	6236	00172035
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (South Area)		
	May 2023		
	2-3		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	74.4	79.1	108.8
12:00-13:00	73.8		
13:00-14:00	76.4		
14:00-15:00	80.0		
15:00-16:00	80.6		
16:00-17:00	82.4		
17:00-18:00	80.0		
18:00-19:00	78.0		
19:00-20:00	76.7	72.4	91.9
20:00-21:00	74.2		
21:00-22:00	72.3		
22:00-23:00	72.2		
23:00-00:00	70.1		
00:00-01:00	69.6		
01:00-02:00	68.9		
02:00-03:00	68.0		
03:00-04:00	69.2	76.3	104.2
04:00-05:00	70.1		
05:00-06:00	71.6		
06:00-07:00	72.5		
07:00-08:00	75.7		
08:00-09:00	78.4		
09:00-10:00	79.5		
10:00-11:00	79.6		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R31	ACO	6236	00192043
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (South Area)		
	May 2023		
	3-4		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	73.5	72.4	105.9
12:00-13:00	71.4		
13:00-14:00	73.2		
14:00-15:00	74.8		
15:00-16:00	73.9		
16:00-17:00	71.2		
17:00-18:00	69.2		
18:00-19:00	68.4		
19:00-20:00	67.8	67.4	90.6
20:00-21:00	67.2		
21:00-22:00	66.8		
22:00-23:00	67.4		
23:00-00:00	66.8		
00:00-01:00	66.9		
01:00-02:00	68.0		
02:00-03:00	68.2		
03:00-04:00	69.3	73.3	106.1
04:00-05:00	70.1		
05:00-06:00	71.9		
06:00-07:00	71.4		
07:00-08:00	72.6		
08:00-09:00	74.3		
09:00-10:00	74.7		
10:00-11:00	76.8		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R31	ACO	6236	00192043
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (South Area)		
	May 2023		
	4-5		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	73.6	74.8	106.6
12:00-13:00	74.4		
13:00-14:00	75.7		
14:00-15:00	75.5		
15:00-16:00	76.5		
16:00-17:00	75.3		
17:00-18:00	73.9		
18:00-19:00	71.9		
19:00-20:00	69.1	67.7	82.1
20:00-21:00	67.2		
21:00-22:00	67.3		
22:00-23:00	68.7		
23:00-00:00	67.7		
00:00-01:00	66.7		
01:00-02:00	68.0		
02:00-03:00	66.4		
03:00-04:00	69.8	73.2	96.1
04:00-05:00	69.9		
05:00-06:00	70.3		
06:00-07:00	70.6		
07:00-08:00	71.7		
08:00-09:00	73.1		
09:00-10:00	75.7		
10:00-11:00	77.4		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R31	ACO	6236	00192043
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (South Area)		
	May 2023		
	5-6		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	76.0	74.7	105.6
12:00-13:00	75.1		
13:00-14:00	75.8		
14:00-15:00	76.5		
15:00-16:00	74.7		
16:00-17:00	73.6		
17:00-18:00	72.4		
18:00-19:00	70.7		
19:00-20:00	70.3	69.4	84.6
20:00-21:00	69.3		
21:00-22:00	69.0		
22:00-23:00	70.1		
23:00-00:00	69.2		
00:00-01:00	68.5		
01:00-02:00	69.8		
02:00-03:00	68.7		
03:00-04:00	68.6	72.0	107.5
04:00-05:00	69.0		
05:00-06:00	71.3		
06:00-07:00	71.1		
07:00-08:00	71.7		
08:00-09:00	72.8		
09:00-10:00	74.3		
10:00-11:00	74.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R31	ACO	6236	00192043
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

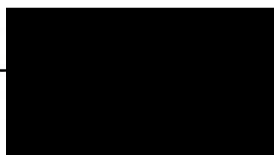
Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.
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S.P.S. CONSULTING SERVICE CO., LTD.

7 ซอยพหลโยธิน 24 ถนนพหลโยธิน แขวงจอมพล เขตจตุจักร กรุงเทพฯ 10900

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Tel : (662) 939-4370-72. Fax : (662) 513-4221. E-mail : sale@spscon.com.. www.spscon.com

5/7

RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Enclosed Ground Flare Area (South Area)		
	May 2023		
	6-7		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
11:00-12:00	75.3	73.6	98.6
12:00-13:00	74.0		
13:00-14:00	73.2		
14:00-15:00	72.7		
15:00-16:00	75.5		
16:00-17:00	73.4		
17:00-18:00	72.2		
18:00-19:00	70.4		
19:00-20:00	70.2	69.3	75.8
20:00-21:00	69.4		
21:00-22:00	69.0		
22:00-23:00	70.6		
23:00-00:00	68.7		
00:00-01:00	68.0		
01:00-02:00	68.8		
02:00-03:00	69.2		
03:00-04:00	69.3	73.3	101.0
04:00-05:00	70.9		
05:00-06:00	71.3		
06:00-07:00	72.4		
07:00-08:00	73.3		
08:00-09:00	73.8		
09:00-10:00	75.7		
10:00-11:00	75.8		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R31	ACO	6236	00192043
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (South Area)		
	May 2023		
	7-8		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	77.0	75.7	93.3
12:00-13:00	76.2		
13:00-14:00	75.9		
14:00-15:00	76.4		
15:00-16:00	76.5		
16:00-17:00	75.7		
17:00-18:00	74.0		
18:00-19:00	72.9		
19:00-20:00	71.1	69.5	108.0
20:00-21:00	69.2		
21:00-22:00	69.4		
22:00-23:00	68.7		
23:00-00:00	68.6		
00:00-01:00	69.5		
01:00-02:00	69.7		
02:00-03:00	69.4		
03:00-04:00	70.1	74.7	111.0
04:00-05:00	70.6		
05:00-06:00	72.9		
06:00-07:00	73.6		
07:00-08:00	73.5		
08:00-09:00	75.1		
09:00-10:00	77.2		
10:00-11:00	78.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R31	ACO	6236	00192043
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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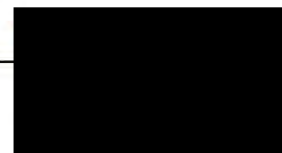
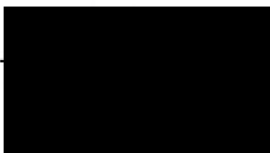
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Enclosed Ground Flare Area (South Area)		
	May 2023		
	8-9		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	76.9	74.4	101.7
12:00-13:00	75.0		
13:00-14:00	75.2		
14:00-15:00	74.7		
15:00-16:00	73.6		
16:00-17:00	73.8		
17:00-18:00	71.9		
18:00-19:00	70.9		
19:00-20:00	69.2	69.1	89.7
20:00-21:00	69.3		
21:00-22:00	70.3		
22:00-23:00	69.8		
23:00-00:00	67.2		
00:00-01:00	67.9		
01:00-02:00	69.6		
02:00-03:00	68.8		
03:00-04:00	68.3	71.9	94.8
04:00-05:00	68.5		
05:00-06:00	68.6		
06:00-07:00	68.2		
07:00-08:00	71.4		
08:00-09:00	73.6		
09:00-10:00	74.3		
10:00-11:00	75.2		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R31	ACO	6236	00192043
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (West Area)		
	May 2023		
	2-3		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	75.4	75.1	107.4
12:00-13:00	73.2		
13:00-14:00	74.7		
14:00-15:00	76.2		
15:00-16:00	76.1		
16:00-17:00	75.6		
17:00-18:00	75.5		
18:00-19:00	73.2		
19:00-20:00	73.0	70.1	89.3
20:00-21:00	70.6		
21:00-22:00	69.5		
22:00-23:00	68.9		
23:00-00:00	69.4		
00:00-01:00	69.2		
01:00-02:00	69.8		
02:00-03:00	68.7		
03:00-04:00	69.6	75.4	105.1
04:00-05:00	70.7		
05:00-06:00	71.6		
06:00-07:00	73.4		
07:00-08:00	76.0		
08:00-09:00	75.6		
09:00-10:00	78.6		
10:00-11:00	78.8		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R25	ACO	6236	00192037
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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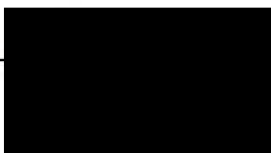
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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2/7

RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (West Area)		
	May 2023		
	3-4		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	77.3	75.8	103.1
12:00-13:00	75.7		
13:00-14:00	75.3		
14:00-15:00	76.5		
15:00-16:00	77.2		
16:00-17:00	76.2		
17:00-18:00	74.1		
18:00-19:00	71.6		
19:00-20:00	72.2	70.1	85.9
20:00-21:00	70.6		
21:00-22:00	69.7		
22:00-23:00	68.3		
23:00-00:00	69.6		
00:00-01:00	69.3		
01:00-02:00	69.5		
02:00-03:00	70.1		
03:00-04:00	70.6	75.5	98.4
04:00-05:00	71.4		
05:00-06:00	73.2		
06:00-07:00	74.3		
07:00-08:00	75.5		
08:00-09:00	76.0		
09:00-10:00	77.4		
10:00-11:00	78.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R25	ACO	6236	00192037
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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3/7

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Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (West Area)		
	May 2023		
	4-5		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	74.0	74.2	104.9
12:00-13:00	72.8		
13:00-14:00	74.3		
14:00-15:00	76.8		
15:00-16:00	74.4		
16:00-17:00	73.7		
17:00-18:00	73.0		
18:00-19:00	72.6		
19:00-20:00	70.3	69.7	89.5
20:00-21:00	70.2		
21:00-22:00	71.6		
22:00-23:00	69.5		
23:00-00:00	69.3		
00:00-01:00	68.0		
01:00-02:00	69.2		
02:00-03:00	68.6		
03:00-04:00	68.5	72.8	98.8
04:00-05:00	69.3		
05:00-06:00	71.3		
06:00-07:00	71.2		
07:00-08:00	73.4		
08:00-09:00	74.1		
09:00-10:00	74.1		
10:00-11:00	75.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R25	ACO	6236	00192037
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Sampling Method = Sound Level Meter

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4/7

RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (West Area)		
	May 2023		
	5-6		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
11:00-12:00	76.5	78.0	105.8
12:00-13:00	74.4		
13:00-14:00	75.2		
14:00-15:00	76.8		
15:00-16:00	77.7		
16:00-17:00	80.2		
17:00-18:00	80.8		
18:00-19:00	78.4		
19:00-20:00	76.0	72.3	71.8
20:00-21:00	75.5		
21:00-22:00	72.2		
22:00-23:00	70.4		
23:00-00:00	68.9		
00:00-01:00	69.9		
01:00-02:00	69.1		
02:00-03:00	67.9		
03:00-04:00	68.2	73.7	98.6
04:00-05:00	69.3		
05:00-06:00	71.9		
06:00-07:00	70.5		
07:00-08:00	73.4		
08:00-09:00	74.0		
09:00-10:00	76.8		
10:00-11:00	77.2		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R25	ACO	6236	00192037
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (West Area)		
	May 2023		
	6-7		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	76.1	75.9	99.8
12:00-13:00	73.7		
13:00-14:00	74.9		
14:00-15:00	75.6		
15:00-16:00	78.7		
16:00-17:00	76.2		
17:00-18:00	75.0		
18:00-19:00	74.7		
19:00-20:00	73.7	70.0	87.6
20:00-21:00	70.5		
21:00-22:00	69.2		
22:00-23:00	67.2		
23:00-00:00	66.3		
00:00-01:00	67.5		
01:00-02:00	70.1		
02:00-03:00	70.4		
03:00-04:00	71.2	72.8	103.6
04:00-05:00	69.7		
05:00-06:00	71.7		
06:00-07:00	70.4		
07:00-08:00	71.3		
08:00-09:00	74.1		
09:00-10:00	74.9		
10:00-11:00	75.3		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R25	ACO	6236	00192037
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

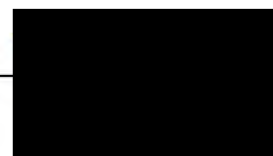
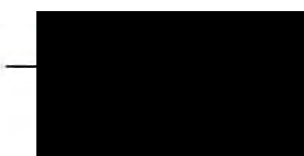
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (West Area)		
	May 2023		
	7-8		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	78.2	75.9	99.2
12:00-13:00	75.4		
13:00-14:00	76.2		
14:00-15:00	77.5		
15:00-16:00	74.3		
16:00-17:00	75.3		
17:00-18:00	75.0		
18:00-19:00	73.6		
19:00-20:00	72.9	71.2	81.7
20:00-21:00	71.7		
21:00-22:00	71.8		
22:00-23:00	72.9		
23:00-00:00	71.6		
00:00-01:00	69.5		
01:00-02:00	68.7		
02:00-03:00	68.2		
03:00-04:00	67.9	73.7	103.7
04:00-05:00	68.0		
05:00-06:00	70.1		
06:00-07:00	70.8		
07:00-08:00	72.4		
08:00-09:00	75.9		
09:00-10:00	77.7		
10:00-11:00	75.8		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R25	ACO	6236	00192037
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)

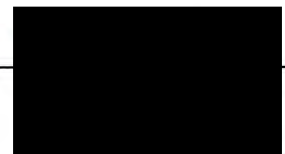
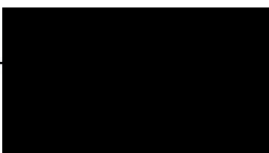
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Enclosed Ground Flare Area (West Area)		
	May 2023		
	8-9		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	76.3	77.1	102.7
12:00-13:00	75.1		
13:00-14:00	76.5		
14:00-15:00	76.0		
15:00-16:00	79.7		
16:00-17:00	78.3		
17:00-18:00	77.3		
18:00-19:00	75.5		
19:00-20:00	74.8	71.9	84.6
20:00-21:00	73.2		
21:00-22:00	72.4		
22:00-23:00	72.5		
23:00-00:00	70.6		
00:00-01:00	69.1		
01:00-02:00	69.5		
02:00-03:00	69.6		
03:00-04:00	69.3	73.0	99.2
04:00-05:00	69.1		
05:00-06:00	71.1		
06:00-07:00	70.5		
07:00-08:00	72.2		
08:00-09:00	73.8		
09:00-10:00	75.2		
10:00-11:00	76.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R25	ACO	6236	00192037
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (North Area)		
	May 2023		
	2-3		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	76.7	77.1	95.5
12:00-13:00	75.3		
13:00-14:00	76.9		
14:00-15:00	78.1		
15:00-16:00	79.6		
16:00-17:00	78.4		
17:00-18:00	75.6		
18:00-19:00	73.1		
19:00-20:00	72.6	71.1	81.9
20:00-21:00	70.2		
21:00-22:00	70.8		
22:00-23:00	71.0		
23:00-00:00	72.2		
00:00-01:00	70.6		
01:00-02:00	70.8		
02:00-03:00	70.3		
03:00-04:00	69.7	71.8	103.5
04:00-05:00	69.1		
05:00-06:00	68.6		
06:00-07:00	69.7		
07:00-08:00	71.4		
08:00-09:00	73.0		
09:00-10:00	73.3		
10:00-11:00	74.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R29	ACO	6236	00192041
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (North Area)		
	May 2023		
	3-4		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	77.1	75.3	107.9
12:00-13:00	77.5		
13:00-14:00	76.4		
14:00-15:00	75.3		
15:00-16:00	76.1		
16:00-17:00	73.8		
17:00-18:00	70.5		
18:00-19:00	70.0		
19:00-20:00	69.1	68.1	86.5
20:00-21:00	67.1		
21:00-22:00	69.5		
22:00-23:00	68.4		
23:00-00:00	67.5		
00:00-01:00	67.2		
01:00-02:00	67.0		
02:00-03:00	68.2		
03:00-04:00	69.6	71.8	94.7
04:00-05:00	69.7		
05:00-06:00	70.0		
06:00-07:00	71.4		
07:00-08:00	71.6		
08:00-09:00	72.4		
09:00-10:00	72.7		
10:00-11:00	74.3		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R29	ACO	6236	00192041
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

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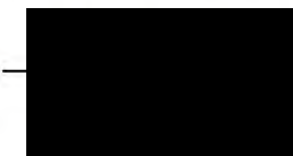
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Sampling Method = Sound Level Meter

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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Enclosed Ground Flare Area (North Area)		
	May 2023		
	4-5		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	77.1	76.2	97.9
12:00-13:00	76.9		
13:00-14:00	78.0		
14:00-15:00	76.4		
15:00-16:00	77.5		
16:00-17:00	75.1		
17:00-18:00	73.7		
18:00-19:00	71.2		
19:00-20:00	70.6	68.4	85.3
20:00-21:00	68.3		
21:00-22:00	67.5		
22:00-23:00	67.4		
23:00-00:00	68.8		
00:00-01:00	68.1		
01:00-02:00	68.2		
02:00-03:00	67.4		
03:00-04:00	69.8	73.5	105.8
04:00-05:00	70.7		
05:00-06:00	73.0		
06:00-07:00	72.5		
07:00-08:00	73.1		
08:00-09:00	73.9		
09:00-10:00	74.4		
10:00-11:00	76.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 235/23			
01 May 2023			
SLM No.	Brand	Model	Serial No.
ACO-R29	ACO	6236	00192041
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Enclosed Ground Flare Area (North Area)		
	May 2023		
	5-6		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	78.7	81.0	100.6
12:00-13:00	77.3		
13:00-14:00	79.8		
14:00-15:00	81.2		
15:00-16:00	84.6		
16:00-17:00	82.8		
17:00-18:00	80.0		
18:00-19:00	78.8		
19:00-20:00	74.7	70.8	77.9
20:00-21:00	72.0		
21:00-22:00	70.0		
22:00-23:00	68.9		
23:00-00:00	69.3		
00:00-01:00	69.0		
01:00-02:00	69.2		
02:00-03:00	68.9		
03:00-04:00	69.0	73.3	91.0
04:00-05:00	69.4		
05:00-06:00	71.0		
06:00-07:00	72.1		
07:00-08:00	74.0		
08:00-09:00	73.8		
09:00-10:00	75.4		
10:00-11:00	76.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R29	ACO	6236	00192041
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

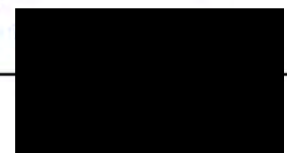
Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RS/H008/23/MAY



RY059/05/66

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (North Area)		
	May 2023		
	6-7		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	78.2	75.6	107.7
12:00-13:00	76.8		
13:00-14:00	75.7		
14:00-15:00	75.9		
15:00-16:00	75.7		
16:00-17:00	74.9		
17:00-18:00	72.6		
18:00-19:00	69.9		
19:00-20:00	68.6	67.6	81.9
20:00-21:00	68.9		
21:00-22:00	67.5		
22:00-23:00	68.2		
23:00-00:00	67.3		
00:00-01:00	67.1		
01:00-02:00	66.4		
02:00-03:00	66.3		
03:00-04:00	67.5	74.5	93.8
04:00-05:00	69.1		
05:00-06:00	71.1		
06:00-07:00	73.2		
07:00-08:00	75.4		
08:00-09:00	76.5		
09:00-10:00	76.8		
10:00-11:00	77.2		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R29	ACO	6236	00192041
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Enclosed Ground Flare Area (North Area)		
	May 2023		
	7-8		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	80.5	77.3	105.8
12:00-13:00	78.8		
13:00-14:00	77.4		
14:00-15:00	77.5		
15:00-16:00	76.6		
16:00-17:00	75.5		
17:00-18:00	74.1		
18:00-19:00	73.2		
19:00-20:00	72.9	70.3	100.7
20:00-21:00	71.3		
21:00-22:00	69.0		
22:00-23:00	70.4		
23:00-00:00	68.2		
00:00-01:00	69.1		
01:00-02:00	68.7		
02:00-03:00	70.3		
03:00-04:00	68.5	75.1	96.3
04:00-05:00	69.6		
05:00-06:00	71.6		
06:00-07:00	72.9		
07:00-08:00	75.9		
08:00-09:00	77.2		
09:00-10:00	77.0		
10:00-11:00	78.5		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R29	ACO	6236	00192041
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY059/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclosed Ground Flare Area (North Area)		
	May 2023		
	8-9		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	77.8	76.6	101.7
12:00-13:00	75.5		
13:00-14:00	74.9		
14:00-15:00	76.6		
15:00-16:00	78.5		
16:00-17:00	77.8		
17:00-18:00	75.5		
18:00-19:00	73.4		
19:00-20:00	70.6	68.9	89.7
20:00-21:00	69.5		
21:00-22:00	68.2		
22:00-23:00	68.7		
23:00-00:00	67.4		
00:00-01:00	67.8		
01:00-02:00	68.9		
02:00-03:00	69.4		
03:00-04:00	69.9	73.7	99.9
04:00-05:00	70.0		
05:00-06:00	70.8		
06:00-07:00	71.2		
07:00-08:00	73.2		
08:00-09:00	74.7		
09:00-10:00	75.1		
10:00-11:00	77.8		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 235/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R29	ACO	6236	00192041
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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Wastewater Treatment Plant 4



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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (East Area)		
	May 2023		
	2-3		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	73.2	72.2	89.8
16:00-17:00	73.8		
17:00-18:00	73.3		
18:00-19:00	73.0		
19:00-20:00	72.1		
20:00-21:00	71.0		
21:00-22:00	69.7		
22:00-23:00	69.5		
23:00-00:00	69.6	70.8	75.9
00:00-01:00	69.5		
01:00-02:00	70.9		
02:00-03:00	69.5		
03:00-04:00	68.7		
04:00-05:00	71.4		
05:00-06:00	72.0		
06:00-07:00	73.2		
07:00-08:00	74.6	75.5	103.8
08:00-09:00	75.7		
09:00-10:00	76.2		
10:00-11:00	75.5		
11:00-12:00	74.8		
12:00-13:00	75.4		
13:00-14:00	75.8		
14:00-15:00	75.6		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Wastewater Treatment Plant 4 Area (East Area)		
	May 2023		
	3-4		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	76.9	73.9	99.6
16:00-17:00	76.4		
17:00-18:00	74.5		
18:00-19:00	73.4		
19:00-20:00	72.6		
20:00-21:00	70.5		
21:00-22:00	70.4		
22:00-23:00	71.6		
23:00-00:00	68.7	71.3	86.5
00:00-01:00	67.7		
01:00-02:00	70.3		
02:00-03:00	70.2		
03:00-04:00	70.9		
04:00-05:00	71.3		
05:00-06:00	73.1		
06:00-07:00	74.4		
07:00-08:00	74.8	76.1	105.2
08:00-09:00	75.7		
09:00-10:00	76.6		
10:00-11:00	76.9		
11:00-12:00	77.0		
12:00-13:00	75.1		
13:00-14:00	75.6		
14:00-15:00	76.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (East Area)		
	May 2023		
	4-5		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	76.2	73.9	97.8
16:00-17:00	74.8		
17:00-18:00	75.0		
18:00-19:00	74.5		
19:00-20:00	73.2		
20:00-21:00	73.0		
21:00-22:00	71.7		
22:00-23:00	70.6		
23:00-00:00	69.8	72.4	85.6
00:00-01:00	69.4		
01:00-02:00	70.1		
02:00-03:00	70.7		
03:00-04:00	72.7		
04:00-05:00	73.9		
05:00-06:00	74.0		
06:00-07:00	74.7		
07:00-08:00	72.1	75.5	101.2
08:00-09:00	73.9		
09:00-10:00	76.8		
10:00-11:00	76.4		
11:00-12:00	75.2		
12:00-13:00	76.4		
13:00-14:00	74.5		
14:00-15:00	76.4		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Wastewater Treatment Plant 4 Area (East Area)		
	May 2023		
	5-6		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	77.6	74.8	109.7
16:00-17:00	76.2		
17:00-18:00	76.6		
18:00-19:00	75.4		
19:00-20:00	74.2		
20:00-21:00	72.3		
21:00-22:00	71.2		
22:00-23:00	69.6		
23:00-00:00	69.3	71.1	96.2
00:00-01:00	68.0		
01:00-02:00	69.1		
02:00-03:00	70.3		
03:00-04:00	71.2		
04:00-05:00	71.6		
05:00-06:00	72.1		
06:00-07:00	74.2		
07:00-08:00	74.3	75.0	101.7
08:00-09:00	75.4		
09:00-10:00	76.9		
10:00-11:00	75.3		
11:00-12:00	73.8		
12:00-13:00	73.6		
13:00-14:00	74.5		
14:00-15:00	75.3		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (East Area)		
	May 2023		
	6-7		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	75.0	74.6	101.2
16:00-17:00	76.2		
17:00-18:00	74.2		
18:00-19:00	74.7		
19:00-20:00	74.5		
20:00-21:00	74.0		
21:00-22:00	74.1		
22:00-23:00	73.9		
23:00-00:00	74.0	74.0	96.1
00:00-01:00	74.1		
01:00-02:00	73.9		
02:00-03:00	74.0		
03:00-04:00	73.9		
04:00-05:00	74.0		
05:00-06:00	74.1		
06:00-07:00	73.9		
07:00-08:00	74.3	75.5	105.4
08:00-09:00	75.8		
09:00-10:00	76.3		
10:00-11:00	76.1		
11:00-12:00	75.9		
12:00-13:00	75.4		
13:00-14:00	75.1		
14:00-15:00	74.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations.

Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

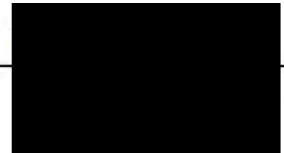
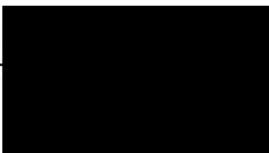
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Wastewater Treatment Plant 4 Area (East Area)		
	May 2023		
	7-8		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	76.2	74.4	89.4
16:00-17:00	75.6		
17:00-18:00	74.7		
18:00-19:00	74.6		
19:00-20:00	73.7		
20:00-21:00	73.3		
21:00-22:00	73.6		
22:00-23:00	72.6		
23:00-00:00	71.7	73.0	99.5
00:00-01:00	70.7		
01:00-02:00	70.6		
02:00-03:00	71.7		
03:00-04:00	72.8		
04:00-05:00	74.7		
05:00-06:00	74.7		
06:00-07:00	74.8		
07:00-08:00	74.7	76.7	107.6
08:00-09:00	76.9		
09:00-10:00	78.0		
10:00-11:00	77.5		
11:00-12:00	74.6		
12:00-13:00	73.7		
13:00-14:00	76.1		
14:00-15:00	79.4		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (East Area)		
	May 2023		
	8-9		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	76.2	75.4	101.7
16:00-17:00	76.9		
17:00-18:00	77.1		
18:00-19:00	75.0		
19:00-20:00	74.9		
20:00-21:00	74.8		
21:00-22:00	73.4		
22:00-23:00	72.7		
23:00-00:00	70.8	71.3	87.1
00:00-01:00	69.9		
01:00-02:00	70.0		
02:00-03:00	69.7		
03:00-04:00	70.3		
04:00-05:00	71.9		
05:00-06:00	72.7		
06:00-07:00	73.4		
07:00-08:00	75.0	74.5	102.6
08:00-09:00	76.5		
09:00-10:00	74.8		
10:00-11:00	73.2		
11:00-12:00	72.1		
12:00-13:00	72.0		
13:00-14:00	73.2		
14:00-15:00	76.3		
Standard		Less Than 90.0 ⁽¹⁾	Less Than 140.0 ⁽¹⁾ , 115.0 ⁽²⁾
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R33	ACO	6236	00192045
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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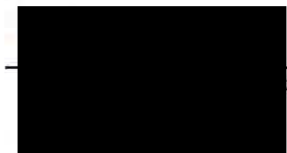
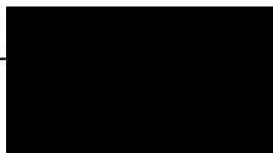
Standard⁽¹⁾ = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
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Standard⁽²⁾ = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Wastewater Treatment Plant 4 Area (South Area)		
	May 2023		
	2-3		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
13:00-14:00	80.6	79.6	98.1
14:00-15:00	79.5		
15:00-16:00	80.0		
16:00-17:00	80.5		
17:00-18:00	78.9		
18:00-19:00	79.2		
19:00-20:00	78.9		
20:00-21:00	79.1		
21:00-22:00	80.1	79.5	87.0
22:00-23:00	79.8		
23:00-00:00	79.3		
00:00-01:00	78.8		
01:00-02:00	79.7		
02:00-03:00	78.9		
03:00-04:00	79.7		
04:00-05:00	80.0		
05:00-06:00	80.7	80.4	98.2
06:00-07:00	79.7		
07:00-08:00	80.6		
08:00-09:00	81.3		
09:00-10:00	80.2		
10:00-11:00	79.9		
11:00-12:00	80.1		
12:00-13:00	80.4		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R48	ACO	6236	00192060
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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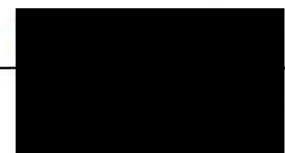
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (South Area)		
	May 2023		
	3-4		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
13:00-14:00	80.5	79.6	95.3
14:00-15:00	80.2		
15:00-16:00	79.3		
16:00-17:00	78.6		
17:00-18:00	80.2		
18:00-19:00	79.8		
19:00-20:00	79.4		
20:00-21:00	78.6		
21:00-22:00	79.5	79.2	90.1
22:00-23:00	77.6		
23:00-00:00	77.9		
00:00-01:00	79.5		
01:00-02:00	79.8		
02:00-03:00	79.2		
03:00-04:00	79.5		
04:00-05:00	79.8		
05:00-06:00	80.3	80.3	102.6
06:00-07:00	80.0		
07:00-08:00	80.6		
08:00-09:00	81.0		
09:00-10:00	80.8		
10:00-11:00	80.3		
11:00-12:00	79.9		
12:00-13:00	79.6		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R48	ACO	6236	00192060
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Wastewater Treatment Plant 4 Area (South Area)		
	May 2023		
	4-5		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
13:00-14:00	79.6	79.8	104.6
14:00-15:00	80.1		
15:00-16:00	80.1		
16:00-17:00	79.1		
17:00-18:00	80.0		
18:00-19:00	79.6		
19:00-20:00	79.6		
20:00-21:00	79.9		
21:00-22:00	79.9	79.6	89.5
22:00-23:00	79.6		
23:00-00:00	79.9		
00:00-01:00	79.9		
01:00-02:00	79.2		
02:00-03:00	79.3		
03:00-04:00	79.3		
04:00-05:00	79.7		
05:00-06:00	79.4	79.9	99.0
06:00-07:00	78.8		
07:00-08:00	79.6		
08:00-09:00	79.4		
09:00-10:00	80.6		
10:00-11:00	81.1		
11:00-12:00	79.8		
12:00-13:00	80.4		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R48	ACO	6236	00192060
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (South Area)		
	May 2023		
	5-6		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
13:00-14:00	79.8	80.3	101.3
14:00-15:00	81.5		
15:00-16:00	80.3		
16:00-17:00	80.0		
17:00-18:00	80.4		
18:00-19:00	80.0		
19:00-20:00	80.2		
20:00-21:00	79.6		
21:00-22:00	79.9	79.7	85.4
22:00-23:00	79.8		
23:00-00:00	78.4		
00:00-01:00	79.6		
01:00-02:00	80.1		
02:00-03:00	80.0		
03:00-04:00	79.9		
04:00-05:00	79.3		
05:00-06:00	80.1	80.1	95.3
06:00-07:00	80.5		
07:00-08:00	79.9		
08:00-09:00	79.2		
09:00-10:00	79.9		
10:00-11:00	80.3		
11:00-12:00	79.8		
12:00-13:00	80.6		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R48	ACO	6236	00192060
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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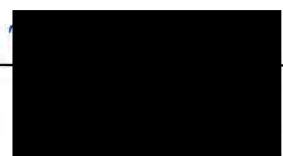
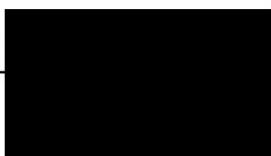
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RS/H008/23/MAY



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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Wastewater Treatment Plant 4 Area (South Area)		
	May 2023		
	6-7		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
13:00-14:00	80.3	79.9	99.2
14:00-15:00	79.9		
15:00-16:00	80.2		
16:00-17:00	80.5		
17:00-18:00	79.6		
18:00-19:00	78.7		
19:00-20:00	79.7		
20:00-21:00	80.2		
21:00-22:00	80.1	80.0	83.1
22:00-23:00	80.5		
23:00-00:00	79.6		
00:00-01:00	80.0		
01:00-02:00	79.9		
02:00-03:00	79.4		
03:00-04:00	80.0		
04:00-05:00	80.4		
05:00-06:00	79.8	80.9	94.2
06:00-07:00	80.1		
07:00-08:00	80.7		
08:00-09:00	81.4		
09:00-10:00	81.6		
10:00-11:00	81.6		
11:00-12:00	81.0		
12:00-13:00	80.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R48	ACO	6236	00192060
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (South Area)		
	May 2023		
	7-8		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
13:00-14:00	80.5	79.7	97.2
14:00-15:00	79.9		
15:00-16:00	79.8		
16:00-17:00	79.4		
17:00-18:00	79.8		
18:00-19:00	78.4		
19:00-20:00	79.6		
20:00-21:00	79.6		
21:00-22:00	80.0	79.8	84.6
22:00-23:00	79.9		
23:00-00:00	79.6		
00:00-01:00	79.9		
01:00-02:00	78.5		
02:00-03:00	79.5		
03:00-04:00	80.0		
04:00-05:00	80.5		
05:00-06:00	81.9	82.2	99.4
06:00-07:00	81.7		
07:00-08:00	81.6		
08:00-09:00	81.8		
09:00-10:00	82.4		
10:00-11:00	83.0		
11:00-12:00	82.3		
12:00-13:00	82.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R48	ACO	6236	00192060
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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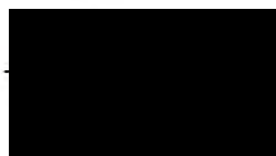
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (South Area)		
	May 2023		
	8-9		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
13:00-14:00	80.1	80.1	100.9
14:00-15:00	82.3		
15:00-16:00	80.3		
16:00-17:00	80.1		
17:00-18:00	79.6		
18:00-19:00	79.4		
19:00-20:00	78.4		
20:00-21:00	79.7		
21:00-22:00	79.6	79.7	84.1
22:00-23:00	78.1		
23:00-00:00	78.8		
00:00-01:00	79.6		
01:00-02:00	80.0		
02:00-03:00	80.5		
03:00-04:00	80.2		
04:00-05:00	80.1		
05:00-06:00	80.6	81.3	96.1
06:00-07:00	80.3		
07:00-08:00	80.8		
08:00-09:00	81.2		
09:00-10:00	81.7		
10:00-11:00	82.3		
11:00-12:00	81.4		
12:00-13:00	81.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R48	ACO	6236	00192060
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Wastewater Treatment Plant 4 Area (West Area)		
	May 2023		
	2-3		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	82.1	82.1	107.8
16:00-17:00	81.6		
17:00-18:00	80.7		
18:00-19:00	82.1		
19:00-20:00	83.5		
20:00-21:00	82.1		
21:00-22:00	82.5		
22:00-23:00	81.9		
23:00-00:00	80.5	81.1	86.2
00:00-01:00	79.4		
01:00-02:00	79.8		
02:00-03:00	80.5		
03:00-04:00	80.8		
04:00-05:00	81.8		
05:00-06:00	82.1		
06:00-07:00	83.0		
07:00-08:00	84.7	84.8	99.8
08:00-09:00	86.3		
09:00-10:00	85.7		
10:00-11:00	85.9		
11:00-12:00	83.5		
12:00-13:00	83.8		
13:00-14:00	83.1		
14:00-15:00	83.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R37	ACO	6236	00192049
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 2-9 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 15 May 2023
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Wastewater Treatment Plant 4 Area (West Area)		
	May 2023		
	3-4		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	80.5	79.4	89.9
16:00-17:00	80.1		
17:00-18:00	78.6		
18:00-19:00	79.7		
19:00-20:00	78.8		
20:00-21:00	79.3		
21:00-22:00	78.6		
22:00-23:00	78.9		
23:00-00:00	79.1	80.3	77.4
00:00-01:00	79.5		
01:00-02:00	79.8		
02:00-03:00	80.6		
03:00-04:00	81.0		
04:00-05:00	80.3		
05:00-06:00	80.8		
06:00-07:00	81.1		
07:00-08:00	81.3	81.0	95.4
08:00-09:00	81.7		
09:00-10:00	82.2		
10:00-11:00	81.3		
11:00-12:00	80.4		
12:00-13:00	79.6		
13:00-14:00	80.7		
14:00-15:00	80.6		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R37	ACO	6236	00192049
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (West Area)		
	May 2023		
	4-5		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	78.3	78.2	94.4
16:00-17:00	78.7		
17:00-18:00	78.0		
18:00-19:00	78.4		
19:00-20:00	78.2		
20:00-21:00	77.8		
21:00-22:00	78.2		
22:00-23:00	77.7		
23:00-00:00	78.0	78.2	82.6
00:00-01:00	77.6		
01:00-02:00	77.9		
02:00-03:00	78.0		
03:00-04:00	77.9		
04:00-05:00	78.0		
05:00-06:00	79.5		
06:00-07:00	78.7		
07:00-08:00	78.5	78.7	101.4
08:00-09:00	79.2		
09:00-10:00	79.9		
10:00-11:00	79.6		
11:00-12:00	77.3		
12:00-13:00	77.1		
13:00-14:00	78.0		
14:00-15:00	79.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R37	ACO	6236	00192049
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (West Area)		
	May 2023		
	5-6		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	80.4	79.3	94.9
16:00-17:00	79.5		
17:00-18:00	79.1		
18:00-19:00	78.7		
19:00-20:00	79.7		
20:00-21:00	78.6		
21:00-22:00	78.4		
22:00-23:00	79.4		
23:00-00:00	80.3	79.3	87.8
00:00-01:00	78.6		
01:00-02:00	79.1		
02:00-03:00	79.0		
03:00-04:00	79.4		
04:00-05:00	78.9		
05:00-06:00	79.2		
06:00-07:00	79.7		
07:00-08:00	80.2	80.4	93.3
08:00-09:00	81.0		
09:00-10:00	82.1		
10:00-11:00	80.4		
11:00-12:00	79.3		
12:00-13:00	79.2		
13:00-14:00	79.7		
14:00-15:00	80.5		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R37	ACO	6236	00192049
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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Tel : (662) 939-4370-72, Fax : (662) 513-4221, E-mail : sale@spscon.com., www.spscon.com

5/7

RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (West Area)		
	May 2023		
	6-7		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	79.9	79.4	94.0
16:00-17:00	80.3		
17:00-18:00	79.2		
18:00-19:00	79.4		
19:00-20:00	79.1		
20:00-21:00	78.9		
21:00-22:00	79.0		
22:00-23:00	79.3		
23:00-00:00	78.9	79.0	88.5
00:00-01:00	78.6		
01:00-02:00	79.0		
02:00-03:00	78.9		
03:00-04:00	78.7		
04:00-05:00	78.5		
05:00-06:00	79.3		
06:00-07:00	79.7		
07:00-08:00	79.2	79.6	101.8
08:00-09:00	80.4		
09:00-10:00	80.3		
10:00-11:00	80.8		
11:00-12:00	79.0		
12:00-13:00	78.4		
13:00-14:00	79.8		
14:00-15:00	78.4		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R37	ACO	6236	00192049
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (West Area)		
	May 2023		
	7-8		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	79.6	78.6	98.7
16:00-17:00	79.1		
17:00-18:00	78.3		
18:00-19:00	78.7		
19:00-20:00	78.0		
20:00-21:00	78.3		
21:00-22:00	77.9		
22:00-23:00	78.5		
23:00-00:00	79.2	79.2	87.7
00:00-01:00	78.8		
01:00-02:00	79.4		
02:00-03:00	78.9		
03:00-04:00	79.4		
04:00-05:00	79.7		
05:00-06:00	79.5		
06:00-07:00	78.5		
07:00-08:00	79.0	79.2	89.3
08:00-09:00	79.3		
09:00-10:00	79.8		
10:00-11:00	79.0		
11:00-12:00	78.7		
12:00-13:00	78.9		
13:00-14:00	79.1		
14:00-15:00	79.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R37	ACO	6236	00192049
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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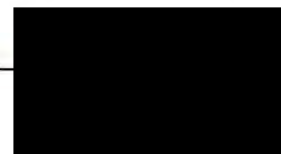
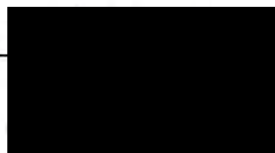
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (West Area)		
	May 2023		
	8-9		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	79.4	79.2	90.7
16:00-17:00	79.0		
17:00-18:00	78.9		
18:00-19:00	79.2		
19:00-20:00	79.8		
20:00-21:00	79.6		
21:00-22:00	79.3		
22:00-23:00	78.4		
23:00-00:00	78.2	78.5	81.6
00:00-01:00	78.7		
01:00-02:00	77.4		
02:00-03:00	78.5		
03:00-04:00	79.3		
04:00-05:00	78.7		
05:00-06:00	78.5		
06:00-07:00	78.9		
07:00-08:00	79.4	79.0	95.3
08:00-09:00	79.7		
09:00-10:00	79.8		
10:00-11:00	79.4		
11:00-12:00	78.7		
12:00-13:00	79.1		
13:00-14:00	78.6		
14:00-00:00	76.2		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R37	ACO	6236	00192049
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Dat : 2-9 May 2023
Date Reporte : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (North Area)		
	May 2023		
	2-3		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	79.8	78.9	98.3
16:00-17:00	81.4		
17:00-18:00	78.8		
18:00-19:00	78.1		
19:00-20:00	77.8		
20:00-21:00	77.9		
21:00-22:00	78.0		
22:00-23:00	78.2		
23:00-00:00	78.4	78.8	89.6
00:00-01:00	78.2		
01:00-02:00	78.5		
02:00-03:00	78.2		
03:00-04:00	78.7		
04:00-05:00	78.4		
05:00-06:00	79.7		
06:00-07:00	79.8		
07:00-08:00	79.1	80.2	105.9
08:00-09:00	81.6		
09:00-10:00	82.1		
10:00-11:00	80.7		
11:00-12:00	79.3		
12:00-13:00	77.6		
13:00-14:00	78.2		
14:00-15:00	80.6		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R47	ACO	6236	00192059
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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2/7

RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (North Area)		
	May 2023		
	3-4		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	81.0	79.3	102.4
16:00-17:00	81.4		
17:00-18:00	78.3		
18:00-19:00	77.6		
19:00-20:00	78.8		
20:00-21:00	79.2		
21:00-22:00	78.4		
22:00-23:00	77.4		
23:00-00:00	76.6	77.6	98.7
00:00-01:00	77.8		
01:00-02:00	78.1		
02:00-03:00	77.5		
03:00-04:00	76.6		
04:00-05:00	77.7		
05:00-06:00	78.2		
06:00-07:00	77.9		
07:00-08:00	78.3	79.0	100.3
08:00-09:00	79.6		
09:00-10:00	79.0		
10:00-11:00	79.3		
11:00-12:00	78.7		
12:00-13:00	77.2		
13:00-14:00	78.3		
14:00-15:00	81.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R47	ACO	6236	00192059
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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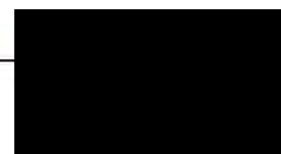
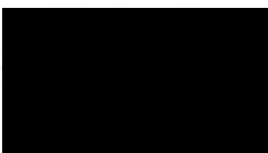
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Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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3/7

RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (North Area)		
	May 2023		
	4-5		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	79.4	77.0	102.2
16:00-17:00	78.1		
17:00-18:00	76.4		
18:00-19:00	76.3		
19:00-20:00	75.7		
20:00-21:00	76.0		
21:00-22:00	76.2		
22:00-23:00	76.5		
23:00-00:00	77.2	77.9	84.3
00:00-01:00	77.7		
01:00-02:00	76.2		
02:00-03:00	77.4		
03:00-04:00	78.0		
04:00-05:00	78.2		
05:00-06:00	79.1		
06:00-07:00	78.7		
07:00-08:00	79.1	80.8	100.7
08:00-09:00	81.0		
09:00-10:00	83.0		
10:00-11:00	83.6		
11:00-12:00	80.3		
12:00-13:00	78.1		
13:00-14:00	77.8		
14:00-15:00	79.8		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R47	ACO	6236	00192059
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen,
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Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (North Area)		
	May 2023		
	5-6		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	79.1	78.2	93.1
16:00-17:00	81.0		
17:00-18:00	78.6		
18:00-19:00	78.1		
19:00-20:00	77.3		
20:00-21:00	76.2		
21:00-22:00	76.1		
22:00-23:00	76.5		
23:00-00:00	77.6	77.4	72.5
00:00-01:00	76.4		
01:00-02:00	76.8		
02:00-03:00	76.1		
03:00-04:00	77.7		
04:00-05:00	78.0		
05:00-06:00	78.7		
06:00-07:00	77.2		
07:00-08:00	78.0	79.3	102.4
08:00-09:00	80.6		
09:00-10:00	80.8		
10:00-11:00	79.9		
11:00-12:00	78.6		
12:00-13:00	76.9		
13:00-14:00	78.8		
14:00-15:00	79.4		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R47	ACO	6236	00192059
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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Sampling Method = Sound Level Meter

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Tel : (662) 939-4370-72. Fax : (662) 513-4221. E-mail : sale@spscon.com.. www.spscon.com

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (North Area)		
	May 2023		
	6-7		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	80.4	78.3	101.0
16:00-17:00	80.0		
17:00-18:00	79.1		
18:00-19:00	78.6		
19:00-20:00	77.6		
20:00-21:00	75.8		
21:00-22:00	75.7		
22:00-23:00	76.2		
23:00-00:00	77.0	77.3	76.4
00:00-01:00	76.3		
01:00-02:00	76.6		
02:00-03:00	78.4		
03:00-04:00	77.4		
04:00-05:00	76.3		
05:00-06:00	77.5		
06:00-07:00	78.2		
07:00-08:00	78.5	80.4	104.7
08:00-09:00	81.5		
09:00-10:00	82.1		
10:00-11:00	80.7		
11:00-12:00	79.8		
12:00-13:00	78.6		
13:00-14:00	81.2		
14:00-15:00	79.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R47	ACO	6236	00192059
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)

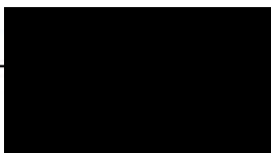
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (North Area)		
	May 2023		
	7-8		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
15:00-16:00	78.6	77.1	97.8
16:00-17:00	77.5		
17:00-18:00	76.4		
18:00-19:00	76.8		
19:00-20:00	75.9		
20:00-21:00	76.5		
21:00-22:00	76.8		
22:00-23:00	77.5		
23:00-00:00	76.4	78.0	83.3
00:00-01:00	77.8		
01:00-02:00	77.4		
02:00-03:00	77.8		
03:00-04:00	78.5		
04:00-05:00	78.1		
05:00-06:00	78.1		
06:00-07:00	79.3		
07:00-08:00	79.3	79.9	101.4
08:00-09:00	80.7		
09:00-10:00	81.1		
10:00-11:00	80.7		
11:00-12:00	78.3		
12:00-13:00	77.4		
13:00-14:00	79.6		
14:00-15:00	80.8		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R47	ACO	6236	00192059
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

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Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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RY060/05/66

193/1/66

Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Hyundai Engineering Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 2-9 May 2023
Date Reported : 15 May 2023

Time	Wastewater Treatment Plant 4 Area (North Area)		
	May 2023		
	8-9		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
15:00-16:00	77.4	76.7	98.4
16:00-17:00	76.9		
17:00-18:00	75.8		
18:00-19:00	76.4		
19:00-20:00	77.4		
20:00-21:00	75.9		
21:00-22:00	76.3		
22:00-23:00	76.9		
23:00-00:00	77.5	77.7	79.2
00:00-01:00	78.1		
01:00-02:00	77.8		
02:00-03:00	77.4		
03:00-04:00	76.8		
04:00-05:00	77.4		
05:00-06:00	78.0		
06:00-07:00	78.3		
07:00-08:00	77.8	78.0	101.4
08:00-09:00	77.2		
09:00-10:00	79.2		
10:00-11:00	78.2		
11:00-12:00	77.6		
12:00-13:00	76.2		
13:00-14:00	78.7		
14:00-15:00	78.5		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_236/23		01 May 2023	
SLM No.	Brand	Model	Serial No.
ACO-R47	ACO	6236	00192059
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

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Hydrogen Manufacturing Unit



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R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (East Area)		
	May 2023		
	11-12		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
11:00-12:00	65.4	67.0	89.1
12:00-13:00	61.1		
13:00-14:00	67.1		
14:00-15:00	68.7		
15:00-16:00	69.3		
16:00-17:00	67.9		
17:00-18:00	65.8		
18:00-19:00	66.3		
19:00-20:00	66.1	62.5	78.9
20:00-21:00	64.2		
21:00-22:00	61.0		
22:00-23:00	61.1		
23:00-00:00	60.5		
00:00-01:00	61.6		
01:00-02:00	60.4		
02:00-03:00	61.1		
03:00-04:00	61.1	64.6	91.5
04:00-05:00	61.7		
05:00-06:00	60.8		
06:00-07:00	60.5		
07:00-08:00	61.7		
08:00-09:00	67.0		
09:00-10:00	69.0		
10:00-11:00	65.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B02	Cirrus	CR161B	G301157
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization, Occupational Health and Work Environment, B.E. 2564 (2021)

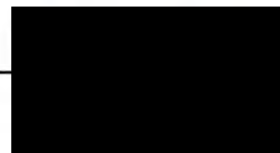
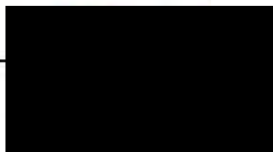
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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002, IEC 60942

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RY061/05/66

R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (East Area)		
	May 2023		
	12-13		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	63.6	66.2	86.7
12:00-13:00	64.9		
13:00-14:00	66.5		
14:00-15:00	67.7		
15:00-16:00	67.3		
16:00-17:00	66.6		
17:00-18:00	64.9		
18:00-19:00	66.4		
19:00-20:00	65.8	62.9	79.5
20:00-21:00	64.7		
21:00-22:00	61.9		
22:00-23:00	61.8		
23:00-00:00	61.5		
00:00-01:00	61.6		
01:00-02:00	61.6		
02:00-03:00	61.7		
03:00-04:00	61.4	66.3	90.6
04:00-05:00	62.2		
05:00-06:00	62.4		
06:00-07:00	61.8		
07:00-08:00	64.4		
08:00-09:00	69.1		
09:00-10:00	69.8		
10:00-11:00	68.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B02	Cirrus	CR161B	G301157
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002, IEC 60942

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R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (East Area)		
	May 2023		
	13-14		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	69.8	69.2	94.7
12:00-13:00	68.4		
13:00-14:00	66.4		
14:00-15:00	68.2		
15:00-16:00	69.9		
16:00-17:00	70.9		
17:00-18:00	70.5		
18:00-19:00	67.2		
19:00-20:00	68.8	64.1	84.9
20:00-21:00	66.9		
21:00-22:00	61.2		
22:00-23:00	61.2		
23:00-00:00	61.2		
00:00-01:00	61.3		
01:00-02:00	61.3		
02:00-03:00	61.4		
03:00-04:00	61.4	68.9	102.6
04:00-05:00	62.5		
05:00-06:00	62.6		
06:00-07:00	62.2		
07:00-08:00	67.1		
08:00-09:00	69.9		
09:00-10:00	71.9		
10:00-11:00	74.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B02	Cirrus	CR161B	G301157
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002, IEC 60942

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R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (East Area)		
	May 2023		
	14-15		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
11:00-12:00	69.4	65.2	82.0
12:00-13:00	61.7		
13:00-14:00	66.0		
14:00-15:00	66.1		
15:00-16:00	65.3		
16:00-17:00	61.2		
17:00-18:00	61.3		
18:00-19:00	63.1	61.4	67.1
19:00-20:00	61.7		
20:00-21:00	61.4		
21:00-22:00	61.3		
22:00-23:00	61.5		
23:00-00:00	61.4		
00:00-01:00	61.2		
01:00-02:00	61.2	65.8	90.0
02:00-03:00	61.3		
03:00-04:00	61.7		
04:00-05:00	62.5		
05:00-06:00	62.6		
06:00-07:00	61.9		
07:00-08:00	63.7		
08:00-09:00	66.9	69.2	
09:00-10:00	69.2		
10:00-11:00	69.2		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B02	Cirrus	CR161B	G301157
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002, IEC 60942

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R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (East Area)		
	May 2023		
	15-16		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	65.8	67.5	97.7
12:00-13:00	61.2		
13:00-14:00	68.6		
14:00-15:00	69.7		
15:00-16:00	68.3		
16:00-17:00	68.7		
17:00-18:00	66.3		
18:00-19:00	66.9		
19:00-20:00	66.0	63.7	83.1
20:00-21:00	64.2		
21:00-22:00	61.3		
22:00-23:00	61.3		
23:00-00:00	61.3		
00:00-01:00	61.2		
01:00-02:00	61.3		
02:00-03:00	67.4		
03:00-04:00	62.6	67.2	99.7
04:00-05:00	63.0		
05:00-06:00	63.4		
06:00-07:00	62.5		
07:00-08:00	64.5		
08:00-09:00	69.5		
09:00-10:00	71.3		
10:00-11:00	69.8		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B02	Cirrus	CR161B	G301157
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)

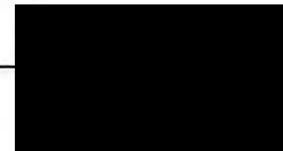
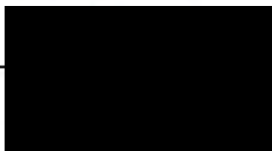
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUUS, Model CR515, S/N. 92002, IEC 60942

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RY061/05/66

R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (East Area)		
	May 2023		
	16-17		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	66.2	67.3	87.4
12:00-13:00	61.1		
13:00-14:00	68.6		
14:00-15:00	69.7		
15:00-16:00	68.3		
16:00-17:00	68.7		
17:00-18:00	66.3		
18:00-19:00	66.9		
19:00-20:00	66.0	63.6	82.7
20:00-21:00	64.2		
21:00-22:00	61.3		
22:00-23:00	61.3		
23:00-00:00	61.3		
00:00-01:00	61.2		
01:00-02:00	61.3		
02:00-03:00	67.4		
03:00-04:00	62.6	62.7	82.4
04:00-05:00	63.0		
05:00-06:00	63.4		
06:00-07:00	62.5		
07:00-08:00	64.5		
08:00-09:00	69.5		
09:00-10:00	71.3		
10:00-11:00	69.8		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B02	Cirrus	CR161B	G301157
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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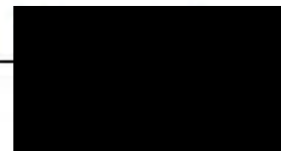
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Sampling Method = Sound Level Meter

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RY061/05/66

R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (East Area)		
	May 2023		
	17-18		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	68.6	71.1	93.5
12:00-13:00	61.3		
13:00-14:00	70.5		
14:00-15:00	72.7		
15:00-16:00	75.5		
16:00-17:00	71.3		
17:00-18:00	69.5		
18:00-19:00	68.9	64.3	88.7
19:00-20:00	70.3		
20:00-21:00	66.5		
21:00-22:00	60.4		
22:00-23:00	60.3		
23:00-00:00	60.2		
00:00-01:00	60.3		
01:00-02:00	60.2	69.3	94.9
02:00-03:00	60.1		
03:00-04:00	60.5		
04:00-05:00	61.3		
05:00-06:00	61.7		
06:00-07:00	61.4		
07:00-08:00	68.9		
08:00-09:00	69.5		
09:00-10:00	74.3		
10:00-11:00	72.8		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B02	Cirrus	CR161B	G301157
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRU, Model CR515, S/N. 92002, IEC 60942

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R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (South Area)		
	May 2023		
	11-12		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	67.4	68.8	95.2
12:00-13:00	61.5		
13:00-14:00	68.3		
14:00-15:00	70.8		
15:00-16:00	72.1		
16:00-17:00	70.0		
17:00-18:00	67.3		
18:00-19:00	64.1		
19:00-20:00	63.4	61.8	69.9
20:00-21:00	61.7		
21:00-22:00	61.2		
22:00-23:00	61.1		
23:00-00:00	61.5		
00:00-01:00	61.6		
01:00-02:00	61.6		
02:00-03:00	61.8		
03:00-04:00	62.0	63.7	82.5
04:00-05:00	62.0		
05:00-06:00	61.6		
06:00-07:00	61.5		
07:00-08:00	63.6		
08:00-09:00	65.3		
09:00-10:00	65.4		
10:00-11:00	65.6		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B08	Cirrus	CR161B	G301397
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRU, Model CR515, S/N. 92002, IEC 60942

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RY061/05/66

R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (South Area)		
	May 2023		
	12-13		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	65.2	69.9	101.9
12:00-13:00	61.5		
13:00-14:00	69.6		
14:00-15:00	73.0		
15:00-16:00	73.5		
16:00-17:00	72.2		
17:00-18:00	64.1		
18:00-19:00	65.4		
19:00-20:00	64.2	60.6	79.1
20:00-21:00	59.5		
21:00-22:00	59.6		
22:00-23:00	59.7		
23:00-00:00	59.9		
00:00-01:00	59.9		
01:00-02:00	59.8		
02:00-03:00	59.9		
03:00-04:00	59.9	69.1	103.0
04:00-05:00	60.2		
05:00-06:00	60.1		
06:00-07:00	60.0		
07:00-08:00	70.4		
08:00-09:00	69.2		
09:00-10:00	74.7		
10:00-11:00	70.7		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B08	Cirrus	CR161B	G301397
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUSS, Model CR515, S/N. 92002, IEC 60942

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R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (South Area)		
	May 2023		
	13-14		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
11:00-12:00	65.8	62.1	80.0
12:00-13:00	61.6		
13:00-14:00	60.6		
14:00-15:00	61.1		
15:00-16:00	61.4		
16:00-17:00	60.9		
17:00-18:00	61.8		
18:00-19:00	60.8		
19:00-20:00	61.5	61.6	64.7
20:00-21:00	61.0		
21:00-22:00	62.0		
22:00-23:00	61.7		
23:00-00:00	61.4		
00:00-01:00	61.8		
01:00-02:00	61.2		
02:00-03:00	62.2		
03:00-04:00	60.3	63.1	87.0
04:00-05:00	61.5		
05:00-06:00	61.6		
06:00-07:00	61.4		
07:00-08:00	61.7		
08:00-09:00	64.9		
09:00-10:00	66.5		
10:00-11:00	63.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B08	Cirrus	CR161B	G301397
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUSS, Model CR515, S/N. 92002, IEC 60942

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R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000 Date Reported : 22 May 2023
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (South Area)		
	May 2023		
	14-15		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	66.2	68.1	85.9
12:00-13:00	68.3		
13:00-14:00	70.7		
14:00-15:00	70.4		
15:00-16:00	68.4		
16:00-17:00	69.1		
17:00-18:00	60.9		
18:00-19:00	61.5		
19:00-20:00	60.3	60.5	63.3
20:00-21:00	60.6		
21:00-22:00	60.4		
22:00-23:00	60.7		
23:00-00:00	60.6		
00:00-01:00	60.4		
01:00-02:00	61.0		
02:00-03:00	60.4		
03:00-04:00	61.3	69.1	92.2
04:00-05:00	60.3		
05:00-06:00	60.9		
06:00-07:00	61.3		
07:00-08:00	62.3		
08:00-09:00	69.9		
09:00-10:00	75.0		
10:00-11:00	72.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B08	Cirrus	CR161B	G301397
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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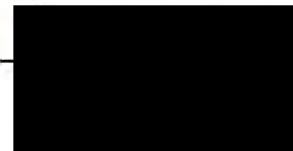
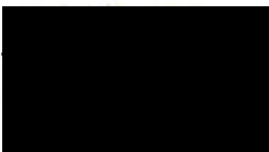
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Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002, IEC 60942

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Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (South Area)		
	May 2023		
	15-16		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	69.7	72.2	95.2
12:00-13:00	61.1		
13:00-14:00	70.8		
14:00-15:00	74.2		
15:00-16:00	73.5		
16:00-17:00	73.3		
17:00-18:00	73.1		
18:00-19:00	72.9		
19:00-20:00	72.4	71.9	89.6
20:00-21:00	73.0		
21:00-22:00	72.5		
22:00-23:00	71.6		
23:00-00:00	70.9		
00:00-01:00	70.3		
01:00-02:00	71.3		
02:00-03:00	72.8		
03:00-04:00	74.6	74.8	103.6
04:00-05:00	73.5		
05:00-06:00	74.8		
06:00-07:00	74.0		
07:00-08:00	75.1		
08:00-09:00	76.3		
09:00-10:00	75.7		
10:00-11:00	73.2		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B08	Cirrus	CR161B	G301397
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002, IEC 60942

Reported results refer to measurement time only.

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RY061/05/66

R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (South Area)		
	May 2023		
	16-17		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	70.0	73.7	92.3
12:00-13:00	70.9		
13:00-14:00	71.7		
14:00-15:00	75.2		
15:00-16:00	76.4		
16:00-17:00	77.0		
17:00-18:00	71.2		
18:00-19:00	70.4	71.1	83.8
19:00-20:00	71.3		
20:00-21:00	70.5		
21:00-22:00	70.9		
22:00-23:00	71.2		
23:00-00:00	70.9		
00:00-01:00	71.9		
01:00-02:00	71.0	73.3	97.7
02:00-03:00	71.3		
03:00-04:00	73.1		
04:00-05:00	71.5		
05:00-06:00	72.2		
06:00-07:00	71.6		
07:00-08:00	71.7		
08:00-09:00	74.5	Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
09:00-10:00	75.3		
10:00-11:00	74.6		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B08	Cirrus	CR161B	G301397
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRU, Model CR515, S/N. 92002, IEC 60942

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RY061/05/66

R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (South Area)		
	May 2023		
	17-18		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	73.3	70.5	87.2
12:00-13:00	71.8		
13:00-14:00	72.8		
14:00-15:00	70.2		
15:00-16:00	69.4		
16:00-17:00	68.1		
17:00-18:00	67.9		
18:00-19:00	62.9		
19:00-20:00	67.8	70.7	84.9
20:00-21:00	69.7		
21:00-22:00	70.7		
22:00-23:00	70.8		
23:00-00:00	70.8		
00:00-01:00	71.3		
01:00-02:00	71.7		
02:00-03:00	71.5		
03:00-04:00	71.9	75.1	98.3
04:00-05:00	72.2		
05:00-06:00	71.9		
06:00-07:00	72.0		
07:00-08:00	73.9		
08:00-09:00	75.0		
09:00-10:00	78.3		
10:00-11:00	78.4		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B08	Cirrus	CR161B	G301397
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRU, Model CR515, S/N. 92002, IEC 60942

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R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000 Date Reported : 22 May 2023
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (West Area)		
	May 2023		
	11-12		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	72.1	73.9	85.8
12:00-13:00	72.9		
13:00-14:00	73.9		
14:00-15:00	75.0		
15:00-16:00	74.6		
16:00-17:00	74.6		
17:00-18:00	73.8		
18:00-19:00	73.6		
19:00-20:00	73.5	73.4	79.1
20:00-21:00	73.3		
21:00-22:00	73.3		
22:00-23:00	73.5		
23:00-00:00	73.5		
00:00-01:00	73.4		
01:00-02:00	73.3		
02:00-03:00	73.4		
03:00-04:00	73.5	74.9	92.7
04:00-05:00	73.5		
05:00-06:00	73.5		
06:00-07:00	73.9		
07:00-08:00	73.6		
08:00-09:00	76.8		
09:00-10:00	75.5		
10:00-11:00	77.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B07	Cirrus	CR161B	G301167
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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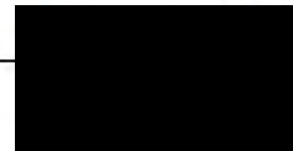
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Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUUS, Model CR515, S/N. 92002, IEC 60942

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R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (West Area)		
	May 2023		
	12-13		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	77.0	75.2	92.2
12:00-13:00	73.7		
13:00-14:00	75.9		
14:00-15:00	75.1		
15:00-16:00	74.7		
16:00-17:00	76.4		
17:00-18:00	73.7		
18:00-19:00	73.9		
19:00-20:00	73.7	73.3	83.8
20:00-21:00	73.1		
21:00-22:00	73.1		
22:00-23:00	73.3		
23:00-00:00	73.3		
00:00-01:00	73.3		
01:00-02:00	73.4		
02:00-03:00	73.3		
03:00-04:00	73.3	74.2	81.5
04:00-05:00	73.5		
05:00-06:00	73.5		
06:00-07:00	73.3		
07:00-08:00	73.2		
08:00-09:00	74.7		
09:00-10:00	75.8		
10:00-11:00	75.1		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B07	Cirrus	CR161B	G301167
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUSS, Model CR515, S/N. 92002, IEC 60942

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R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (West Area)		
	May 2023		
	13-14		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	73.0	74.1	93.5
12:00-13:00	72.1		
13:00-14:00	75.3		
14:00-15:00	76.6		
15:00-16:00	75.1		
16:00-17:00	72.8		
17:00-18:00	72.6		
18:00-19:00	72.7		
19:00-20:00	72.5	72.5	80.8
20:00-21:00	72.5		
21:00-22:00	72.4		
22:00-23:00	72.4		
23:00-00:00	72.4		
00:00-01:00	72.4		
01:00-02:00	72.5		
02:00-03:00	72.8		
03:00-04:00	72.9	72.7	94.1
04:00-05:00	72.8		
05:00-06:00	72.8		
06:00-07:00	72.7		
07:00-08:00	72.9		
08:00-09:00	73.1		
09:00-10:00	72.5		
10:00-11:00	72.3		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B07	Cirrus	CR161B	G301167
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRU, Model CR515, S/N. 92002, IEC 60942

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R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (West Area)		
	May 2023		
	14-15		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	72.3	72.0	91.9
12:00-13:00	71.4		
13:00-14:00	71.8		
14:00-15:00	72.4		
15:00-16:00	71.9		
16:00-17:00	71.7		
17:00-18:00	72.0		
18:00-19:00	72.2		
19:00-20:00	72.0	71.9	93.6
20:00-21:00	71.9		
21:00-22:00	72.0		
22:00-23:00	72.0		
23:00-00:00	71.9		
00:00-01:00	71.9		
01:00-02:00	71.9		
02:00-03:00	72.0		
03:00-04:00	71.9	73.7	96.6
04:00-05:00	72.0		
05:00-06:00	72.2		
06:00-07:00	72.5		
07:00-08:00	72.3		
08:00-09:00	73.8		
09:00-10:00	76.6		
10:00-11:00	75.3		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B07	Cirrus	CR161B	G301167
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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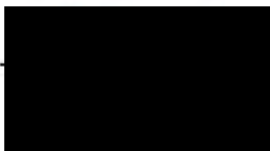
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Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002, IEC 60942

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R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (West Area)		
	May 2023		
	15-16		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
11:00-12:00	75.1	73.9	93.8
12:00-13:00	71.7		
13:00-14:00	73.4		
14:00-15:00	75.8		
15:00-16:00	73.3		
16:00-17:00	74.3		
17:00-18:00	72.8		
18:00-19:00	73.2		
19:00-20:00	72.6	72.8	97.7
20:00-21:00	72.0		
21:00-22:00	71.7		
22:00-23:00	71.8		
23:00-00:00	71.7		
00:00-01:00	71.8		
01:00-02:00	71.8		
02:00-03:00	76.5		
03:00-04:00	72.3	74.1	95.4
04:00-05:00	72.6		
05:00-06:00	72.1		
06:00-07:00	72.4		
07:00-08:00	72.4		
08:00-09:00	76.2		
09:00-10:00	77.2		
10:00-11:00	74.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B07	Cirrus	CR161B	G301167
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002, IEC 60942

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Tel : (662) 939-4370-72, Fax : (662) 513-4221, E-mail : sale@spscon.com., www.spscon.com

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RY061/05/66

R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (West Area)		
	May 2023		
	16-17		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	73.7	74.2	94.9
12:00-13:00	72.2		
13:00-14:00	73.3		
14:00-15:00	74.6		
15:00-16:00	75.6		
16:00-17:00	75.1		
17:00-18:00	75.0		
18:00-19:00	73.0		
19:00-20:00	73.2	72.2	93.2
20:00-21:00	72.5		
21:00-22:00	71.7		
22:00-23:00	71.8		
23:00-00:00	71.9		
00:00-01:00	72.1		
01:00-02:00	72.1		
02:00-03:00	72.1		
03:00-04:00	72.2	73.7	102.3
04:00-05:00	72.1		
05:00-06:00	71.8		
06:00-07:00	72.4		
07:00-08:00	73.0		
08:00-09:00	74.5		
09:00-10:00	75.0		
10:00-11:00	76.2		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B07	Cirrus	CR161B	G301167
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002, IEC 60942

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RY061/05/66

R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (West Area)		
	May 2023		
	17-18		
	L _{eq} 1 hr [dB(A)]	L _{eq} 8 hr [dB(A)]	L _{max} [dB(A)]
11:00-12:00	73.2	74.4	94.7
12:00-13:00	71.9		
13:00-14:00	75.4		
14:00-15:00	74.9		
15:00-16:00	75.7		
16:00-17:00	74.5		
17:00-18:00	75.0		
18:00-19:00	73.5	72.6	94.2
19:00-20:00	74.3		
20:00-21:00	72.6		
21:00-22:00	72.6		
22:00-23:00	72.5		
23:00-00:00	72.2		
00:00-01:00	72.4		
01:00-02:00	72.0		
02:00-03:00	71.9	75.4	101.5
03:00-04:00	72.1		
04:00-05:00	72.2		
05:00-06:00	72.0		
06:00-07:00	72.6		
07:00-08:00	72.1		
08:00-09:00	73.9		
09:00-10:00	76.3		
10:00-11:00	81.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B07	Cirrus	CR161B	G301167
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

Remark:

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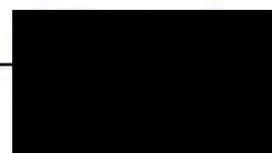
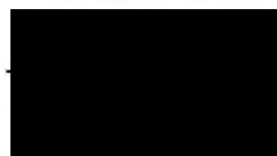
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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002, IEC 60942

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RY061/05/66

R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2 Sampling Date : 11-18 May 2023
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 22 May 2023
Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hydrogen Manufacturing Unit Area (North Area)		
	May 2023		
	11-12		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
11:00-12:00	69.6	72.3	95.3
12:00-13:00	68.0		
13:00-14:00	71.5		
14:00-15:00	75.5		
15:00-16:00	75.6		
16:00-17:00	71.4		
17:00-18:00	68.4		
18:00-19:00	71.3		
19:00-20:00	70.6	68.5	77.6
20:00-21:00	68.1		
21:00-22:00	67.8		
22:00-23:00	68.1		
23:00-00:00	68.0		
00:00-01:00	68.2		
01:00-02:00	68.1		
02:00-03:00	68.6		
03:00-04:00	68.8	72.1	90.0
04:00-05:00	68.4		
05:00-06:00	68.6		
06:00-07:00	68.6		
07:00-08:00	71.4		
08:00-09:00	74.3		
09:00-10:00	74.7		
10:00-11:00	75.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B03	Cirrus	CR161B	G301155
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

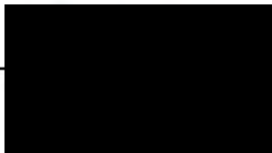
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002, IEC 60942

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RY061/05/66

R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 11-18 May 2023
Date Reported : 22 May 2023

Time	Hydrogen Manufacturing Unit Area (North Area)		
	May 2023		
	12-13		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
11:00-12:00	70.5	74.1	92.4
12:00-13:00	69.5		
13:00-14:00	73.9		
14:00-15:00	74.9		
15:00-16:00	76.5		
16:00-17:00	72.3		
17:00-18:00	72.6		
18:00-19:00	76.8		
19:00-20:00	75.0	74.0	86.7
20:00-21:00	74.7		
21:00-22:00	73.5		
22:00-23:00	74.2		
23:00-00:00	73.5		
00:00-01:00	73.4		
01:00-02:00	73.7		
02:00-03:00	73.7		
03:00-04:00	73.9	76.3	100.4
04:00-05:00	74.2		
05:00-06:00	74.0		
06:00-07:00	74.2		
07:00-08:00	76.0		
08:00-09:00	76.3		
09:00-10:00	78.7		
10:00-11:00	79.3		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B03	Cirrus	CR161B	G301155
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)

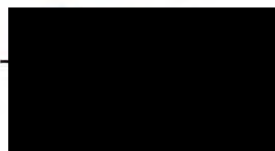
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002, IEC 60942

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R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 11-18 May 2023
Date Reported : 22 May 2023

Time	Hydrogen Manufacturing Unit Area (North Area)		
	May 2023		
	13-14		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
11:00-12:00	72.4	73.3	93.4
12:00-13:00	70.7		
13:00-14:00	72.5		
14:00-15:00	73.1		
15:00-16:00	73.5		
16:00-17:00	75.1		
17:00-18:00	73.4		
18:00-19:00	74.2		
19:00-20:00	73.1	70.2	83.9
20:00-21:00	73.9		
21:00-22:00	67.9		
22:00-23:00	68.0		
23:00-00:00	68.0		
00:00-01:00	68.0		
01:00-02:00	68.2		
02:00-03:00	68.6		
03:00-04:00	68.7	74.6	95.7
04:00-05:00	68.7		
05:00-06:00	68.4		
06:00-07:00	70.5		
07:00-08:00	71.4		
08:00-09:00	73.3		
09:00-10:00	76.3		
10:00-11:00	80.9		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B03	Cirrus	CR161B	G301155
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002, IEC 60942

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R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 11-18 May 2023
Date Reported : 22 May 2023

Time	Hydrogen Manufacturing Unit Area (North Area)		
	May 2023		
	14-15		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
11:00-12:00	74.7	73.7	109.3
12:00-13:00	73.1		
13:00-14:00	74.5		
14:00-15:00	76.9		
15:00-16:00	75.4		
16:00-17:00	71.3		
17:00-18:00	68.0		
18:00-19:00	68.8		
19:00-20:00	68.0	68.4	68.7
20:00-21:00	68.1		
21:00-22:00	68.8		
22:00-23:00	68.2		
23:00-00:00	68.2		
00:00-01:00	68.0		
01:00-02:00	69.4		
02:00-03:00	68.3		
03:00-04:00	68.3	73.1	95.9
04:00-05:00	69.4		
05:00-06:00	69.5		
06:00-07:00	70.2		
07:00-08:00	73.8		
08:00-09:00	74.1		
09:00-10:00	76.5		
10:00-11:00	75.2		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B03	Cirrus	CR161B	G301155
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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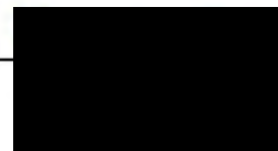
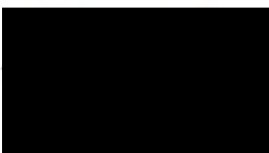
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002, IEC 60942

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RY061/05/66

R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 11-18 May 2023
Date Reported : 22 May 2023

Time	Hydrogen Manufacturing Unit Area (North Area)		
	May 2023		
	15-16		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
11:00-12:00	68.8	72.2	93.3
12:00-13:00	70.3		
13:00-14:00	71.1		
14:00-15:00	72.6		
15:00-16:00	73.3		
16:00-17:00	74.3		
17:00-18:00	71.8		
18:00-19:00	72.9		
19:00-20:00	72.2	69.6	84.1
20:00-21:00	68.6		
21:00-22:00	68.4		
22:00-23:00	69.2		
23:00-00:00	68.6		
00:00-01:00	68.7		
01:00-02:00	68.9		
02:00-03:00	70.9		
03:00-04:00	69.5	72.7	94.3
04:00-05:00	69.3		
05:00-06:00	70.3		
06:00-07:00	72.3		
07:00-08:00	74.1		
08:00-09:00	73.6		
09:00-10:00	75.1		
10:00-11:00	73.5		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B03	Cirrus	CR161B	G301155
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

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Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002, IEC 60942

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RY061/05/66

R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 11-18 May 2023
Date Reported : 22 May 2023

Time	Hydrogen Manufacturing Unit Area (North Area)		
	May 2023		
	16-17		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
11:00-12:00	69.6	70.6	92.7
12:00-13:00	72.9		
13:00-14:00	71.4		
14:00-15:00	72.1		
15:00-16:00	69.1		
16:00-17:00	68.3		
17:00-18:00	70.4		
18:00-19:00	68.1		
19:00-20:00	67.7	69.2	85.6
20:00-21:00	68.0		
21:00-22:00	68.4		
22:00-23:00	69.6		
23:00-00:00	69.3		
00:00-01:00	70.7		
01:00-02:00	69.9		
02:00-03:00	69.5		
03:00-04:00	69.1	73.5	95.7
04:00-05:00	70.0		
05:00-06:00	70.4		
06:00-07:00	71.0		
07:00-08:00	73.6		
08:00-09:00	75.3		
09:00-10:00	75.6		
10:00-11:00	76.3		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B03	Cirrus	CR161B	G301155
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002, IEC 60942

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.



บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด
S.P.S. CONSULTING SERVICE CO., LTD.
7 ซอยพหลโยธิน 24 ถนนพหลโยธิน แขวงจอมพล เขตจตุจักร กรุงเทพฯ 10900
7 Soi Phaholyothin 24, Phaholyothin Rd., Jompol, Chatuchak, Bangkok 10900
Tel : (662) 939-4370-72, Fax : (662) 513-4221, E-mail : sale@spscon.com., www.spscon.com

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RY061/05/66

R-Pro-1091-2/2021

Noise Level Report

Project : HMU-2
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000
Client Name/Address : Wison Engineering Ltd.
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 11-18 May 2023
Date Reported : 22 May 2023

Time	Hydrogen Manufacturing Unit Area (North Area)		
	May 2023		
	17-18		
	L_{eq} 1 hr [dB(A)]	L_{eq} 8 hr [dB(A)]	L_{max} [dB(A)]
11:00-12:00	79.0	78.2	102.6
12:00-13:00	81.3		
13:00-14:00	77.0		
14:00-15:00	79.3		
15:00-16:00	78.8		
16:00-17:00	77.9		
17:00-18:00	74.5		
18:00-19:00	71.3		
19:00-20:00	70.1	69.3	98.3
20:00-21:00	69.0		
21:00-22:00	68.8		
22:00-23:00	69.1		
23:00-00:00	68.6		
00:00-01:00	69.4		
01:00-02:00	69.8		
02:00-03:00	69.3		
03:00-04:00	68.7	73.4	97.3
04:00-05:00	69.4		
05:00-06:00	69.2		
06:00-07:00	69.0		
07:00-08:00	71.6		
08:00-09:00	75.3		
09:00-10:00	77.2		
10:00-11:00	76.0		
Standard		Less Than 90.0 ^[1]	Less Than 140.0 ^[1] , 115.0 ^[2]
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 245/23		10 May 2023	
SLM No.	Brand	Model	Serial No.
CR-B03	Cirrus	CR161B	G301155
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

Remark:

This Report is not Included in the Results of Measurement and Analysis Certified in Accordance with the Ministerial Regulations, Registration and Service Authorization. Occupational Health and Work Environment, B.E. 2564 (2021)

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Sampling Method = Sound Level Meter

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