

**Enclosed Ground Flare**



RY0275/11/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 14-21 November 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 25 November 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (East Area)		
	November 2022		
	14-15		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:10-16:10	65.1	61.4	96.5
16:10-17:10	63.8		
17:10-18:10	63.7		
18:10-19:10	64.2		
19:10-20:10	49.6		
20:10-21:10	48.4		
21:10-22:10	48.2		
22:10-23:10	47.6		
23:10-00:10	47.5	48.4	63.4
00:10-01:10	48.2		
01:10-02:10	48.1		
02:10-03:10	48.1		
03:10-04:10	48.5		
04:10-05:10	48.7		
05:10-06:10	48.7		
06:10-07:10	48.8		
07:10-08:10	53.6	61.9	69.6
08:10-09:10	64.0		
09:10-10:10	64.9		
10:10-11:10	64.7		
11:10-12:10	55.1		
12:10-13:10	49.1		
13:10-14:10	62.6		
14:10-15:10	61.7		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R23)	ACO	6236	00192035
		Standard	
		IEC 61672	
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = 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.

(Tinarom Khruawan)

Scientist

25 / 11 / 22

(Khemmarin Thirarathaset)

Technical Supervisor

25 / 11 / 22



RY0275/11/65

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Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (East Area)		
	November 2022		
	15-16		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:10-16:10	62.3	57.9	87.2
16:10-17:10	63.5		
17:10-18:10	57.2		
18:10-19:10	49.0		
19:10-20:10	49.2		
20:10-21:10	48.6		
21:10-22:10	49.7		
22:10-23:10	49.9		
23:10-00:10	49.8	50.2	67.4
00:10-01:10	50.1		
01:10-02:10	49.9		
02:10-03:10	49.9		
03:10-04:10	50.0		
04:10-05:10	50.1		
05:10-06:10	50.9		
06:10-07:10	50.7		
07:10-08:10	50.5	64.5	98.5
08:10-09:10	63.6		
09:10-10:10	67.6		
10:10-11:10	68.9		
11:10-12:10	57.5		
12:10-13:10	49.5		
13:10-14:10	62.3		
14:10-15:10	66.4		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R23)	ACO	6236	00192035
		Standard	
		IEC 61672	
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

#### Remark:

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Standard<sup>[2]</sup> = 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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(Punaron Khruaewat)

Scientist

25 / 11 / 22

  
(Khemmarin Thirarathaset)

Technical Supervisor

25 / 11 / 22



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7 ซอยพหลโยธิน 24 ถนนพหลโยธิน แขวงจอมพล เขตจตุจักร กรุงเทพฯ 10900  
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3/7

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Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (East Area)		
	November 2022		
	16-17		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:10-16:10	67.4	61.7	92.3
16:10-17:10	64.0		
17:10-18:10	63.7		
18:10-19:10	59.2		
19:10-20:10	55.0		
20:10-21:10	50.2		
21:10-22:10	50.0		
22:10-23:10	49.5	50.2	68.9
23:10-00:10	49.7		
00:10-01:10	50.1		
01:10-02:10	50.2		
02:10-03:10	50.2		
03:10-04:10	49.9		
04:10-05:10	49.9		
05:10-06:10	50.4		
06:10-07:10	51.3	64.8	100.0
07:10-08:10	53.2		
08:10-09:10	63.6		
09:10-10:10	68.1		
10:10-11:10	67.6		
11:10-12:10	66.1		
12:10-13:10	49.3		
13:10-14:10	61.9	Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
14:10-15:10	65.9		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R23)	ACO	6236	00192035
		Standard	
		IEC 61672	
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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Standard<sup>[2]</sup> = 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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(Tinarom Khruawan)

Scientist

25 / 11 / 22

(Khemmarin Thirarathaset)

Technical Supervisor

25 / 11 / 22





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4/7

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Time	Enclose Ground Flare Area (East Area)		
	November 2022		
	17-18		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:10-16:10	60.7	57.9	86.3
16:10-17:10	61.9		
17:10-18:10	59.8		
18:10-19:10	59.3		
19:10-20:10	54.4		
20:10-21:10	48.6		
21:10-22:10	47.8		
22:10-23:10	48.0	48.7	60.9
23:10-00:10	48.3		
00:10-01:10	48.5		
01:10-02:10	48.3		
02:10-03:10	48.5		
03:10-04:10	48.6		
04:10-05:10	48.7		
05:10-06:10	49.3	61.9	98.4
06:10-07:10	49.5		
07:10-08:10	49.1		
08:10-09:10	63.9		
09:10-10:10	65.6		
10:10-11:10	61.7		
11:10-12:10	59.6		
12:10-13:10	49.6		
13:10-14:10	63.9		
14:10-15:10	61.2		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R23)	ACO	6236	00192035
		Standard	
		IEC 61672	
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 80942

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(Tinarom Khruawan)

Scientist

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(Khemmarin Thirarathaset)

Technical Supervisor

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Time	Enclose Ground Flare Area (East Area)		
	November 2022		
	18-19		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:10-16:10	61.3	60.1	94.8
16:10-17:10	63.8		
17:10-18:10	62.5		
18:10-19:10	59.4		
19:10-20:10	59.8		
20:10-21:10	58.0		
21:10-22:10	48.9		
22:10-23:10	48.6		
23:10-00:10	49.1	49.8	70.4
00:10-01:10	48.4		
01:10-02:10	48.0		
02:10-03:10	47.4		
03:10-04:10	47.8		
04:10-05:10	47.7		
05:10-06:10	51.0		
06:10-07:10	53.9		
07:10-08:10	53.7	64.0	94.8
08:10-09:10	65.1		
09:10-10:10	66.2		
10:10-11:10	65.8		
11:10-12:10	58.0		
12:10-13:10	56.4		
13:10-14:10	66.0		
14:10-15:10	65.5		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R23)	ACO	6236	00192035
		Standard	
		IEC 61672	
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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(Tinarom Khruewan)

Scientist

25 / 11 / 22

(Khemmarin Thirarathaset)

Technical Supervisor

25 / 11 / 22



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6/7

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Time	Enclose Ground Flare Area (East Area)		
	November 2022		
	19-20		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
15:10-16:10	66.5	59.5	84.4
16:10-17:10	62.6		
17:10-18:10	55.6		
18:10-19:10	50.4		
19:10-20:10	50.0		
20:10-21:10	50.1		
21:10-22:10	49.9		
22:10-23:10	49.4	46.6	64.4
23:10-00:10	49.5		
00:10-01:10	49.6		
01:10-02:10	49.6		
02:10-03:10	49.1		
03:10-04:10	49.6		
04:10-05:10	49.8		
05:10-06:10	49.5	51.3	92.2
06:10-07:10	50.3		
07:10-08:10	50.4		
08:10-09:10	50.9		
09:10-10:10	55.2		
10:10-11:10	50.3		
11:10-12:10	48.8		
12:10-13:10	48.7		
13:10-14:10	50.4		
14:10-15:10	51.7		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
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Standard			
IEC 61672			
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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Scientist  
25 / 11 / 22

(Khemmarin Thirarathaset)  
Technical Supervisor  
25 / 11 / 22





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	November 2022		
	20-21		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:10-16:10	53.5	54.6	77.7
16:10-17:10	59.4		
17:10-18:10	57.3		
18:10-19:10	51.9		
19:10-20:10	51.7		
20:10-21:10	51.5		
21:10-22:10	50.7		
22:10-23:10	49.6	50.9	66.8
23:10-00:10	49.7		
00:10-01:10	49.4		
01:10-02:10	49.7		
02:10-03:10	49.5		
03:10-04:10	49.0		
04:10-05:10	49.6		
05:10-06:10	50.6	64.0	98.5
06:10-07:10	55.3		
07:10-08:10	56.6		
08:10-09:10	64.5		
09:10-10:10	65.3		
10:10-11:10	66.1		
11:10-12:10	61.1		
12:10-13:10	54.3		
13:10-14:10	66.3		
14:10-15:10	65.5		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R23)	ACO	6236	00192035
		Standard	
		IEC 61672	
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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Sampling Method = Sound Level Meter

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(Tinarom Khruawan)

Scientist

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Technical Supervisor

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1/7

RY0275/11/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 14-21 November 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 25 November 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (South Area)		
	November 2022		
	14-15		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:40-16:40	61.5	57.9	89.1
16:40-17:40	60.8		
17:40-18:40	59.0		
18:40-19:40	60.4		
19:40-20:40	51.0		
20:40-21:40	50.6		
21:40-22:40	50.5		
22:40-23:40	50.5		
23:40-00:40	50.8	51.5	72.8
00:40-01:40	51.4		
01:40-02:40	51.3		
02:40-03:40	51.2		
03:40-04:40	51.7		
04:40-05:40	51.4		
05:40-06:40	52.1		
06:40-07:40	51.7		
07:40-08:40	54.6	61.2	89.1
08:40-09:40	64.2		
09:40-10:40	66.7		
10:40-11:40	60.1		
11:40-12:40	51.4		
12:40-13:40	53.9		
13:40-14:40	57.6		
14:40-15:40	60.2		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R32)	ACO	6236	00192044
		Standard	
		IEC 61672	
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = 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.

(Tinarom Khruawan)

Scientist

25 / 11 / 22

(Khemmarin Thirarathaset)

Technical Supervisor

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2/7

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Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (South Area)		
	November 2022		
	15-16		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
15:40-16:40	62.7	57.9	81.8
16:40-17:40	63.5		
17:40-18:40	49.1		
18:40-19:40	50.1		
19:40-20:40	49.1		
20:40-21:40	51.9		
21:40-22:40	52.2		
22:40-23:40	52.8	51.5	73.7
23:40-00:40	52.9		
00:40-01:40	50.3		
01:40-02:40	50.5		
02:40-03:40	51.1		
03:40-04:40	51.1		
04:40-05:40	51.5		
05:40-06:40	51.5	61.0	91.1
06:40-07:40	52.7		
07:40-08:40	55.0		
08:40-09:40	57.4		
09:40-10:40	63.0		
10:40-11:40	63.6		
11:40-12:40	50.4		
12:40-13:40	52.8	59.4	
13:40-14:40	65.8		
14:40-15:40	59.4		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R32)	ACO	6236	00192044
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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Scientist

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Technical Supervisor

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3/7

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Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (South Area)		
	November 2022		
	16-17		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
15:40-16:40	66.9	60.0	81.6
16:40-17:40	63.4		
17:40-18:40	54.5		
18:40-19:40	53.4		
19:40-20:40	50.5		
20:40-21:40	50.3		
21:40-22:40	48.9		
22:40-23:40	49.2		
23:40-00:40	50.6	51.0	70.1
00:40-01:40	50.4		
01:40-02:40	50.1		
02:40-03:40	50.1		
03:40-04:40	50.4		
04:40-05:40	50.4		
05:40-06:40	52.5		
06:40-07:40	52.4		
07:40-08:40	52.4	58.1	92.3
08:40-09:40	60.2		
09:40-10:40	59.5		
10:40-11:40	56.7		
11:40-12:40	49.1		
12:40-13:40	52.1		
13:40-14:40	62.5		
14:40-15:40	57.7		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R32)	ACO	6236	00192044
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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Sampling Method = Sound Level Meter

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Scientist

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Technical Supervisor

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RY0275/11/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 14-21 November 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 25 November 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (South Area)		
	November 2022		
	17-18		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:40-16:40	59.4	55.1	80.7
16:40-17:40	59.6		
17:40-18:40	55.8		
18:40-19:40	53.4		
19:40-20:40	48.8		
20:40-21:40	47.4		
21:40-22:40	46.8		
22:40-23:40	47.6	49.0	73.1
23:40-00:40	47.3		
00:40-01:40	47.8		
01:40-02:40	48.1		
02:40-03:40	48.3		
03:40-04:40	49.2		
04:40-05:40	49.7		
05:40-06:40	50.5	68.7	112.2
06:40-07:40	50.1		
07:40-08:40	50.0		
08:40-09:40	56.6		
09:40-10:40	57.1		
10:40-11:40	60.0		
11:40-12:40	77.1		
12:40-13:40	64.9		
13:40-14:40	61.2		
14:40-15:40	62.2		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R32)	ACO	6236	00192044
		Standard	
		IEC 61672	
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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(Phatana Khruaewat)

Scientist

25 / 11 / 65

(Khemmarin Thirarathaset)

Technical Supervisor

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5/7

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Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 14-21 November 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 25 November 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (South Area)		
	November 2022		
	18-19		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
15:40-16:40	67.1	63.3	88.1
16:40-17:40	67.6		
17:40-18:40	65.0		
18:40-19:40	56.7		
19:40-20:40	63.7		
20:40-21:40	49.2		
21:40-22:40	48.8		
22:40-23:40	48.5		
23:40-00:40	50.1	56.2	78.1
00:40-01:40	48.9		
01:40-02:40	49.1		
02:40-03:40	49.4		
03:40-04:40	49.5		
04:40-05:40	48.8		
05:40-06:40	62.3		
06:40-07:40	60.4		
07:40-08:40	65.8	68.1	91.5
08:40-09:40	64.1		
09:40-10:40	64.7		
10:40-11:40	67.0		
11:40-12:40	65.6		
12:40-13:40	67.0		
13:40-14:40	72.3		
14:40-15:40	70.5		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R32)	ACO	6236	00192044
		Standard	
		IEC 61672	
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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Scientist

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Technical Supervisor

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6/7

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Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (South Area)		
	November 2022		
	19-20		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:40-16:40	71.2	63.4	82.4
16:40-17:40	65.0		
17:40-18:40	57.7		
18:40-19:40	51.6		
19:40-20:40	52.1		
20:40-21:40	51.5		
21:40-22:40	50.0		
22:40-23:40	49.7		
23:40-00:40	49.6	51.3	64.7
00:40-01:40	50.2		
01:40-02:40	50.0		
02:40-03:40	50.1		
03:40-04:40	50.4		
04:40-05:40	50.4		
05:40-06:40	52.5		
06:40-07:40	54.7		
07:40-08:40	54.5	56.0	83.3
08:40-09:40	55.0		
09:40-10:40	55.0		
10:40-11:40	54.4		
11:40-12:40	54.4		
12:40-13:40	56.0		
13:40-14:40	56.9		
14:40-15:40	59.1		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R32)	ACO	6236	00192044
		Standard	
		IEC 61672	
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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Sampling Method = Sound Level Meter

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(Tinarom Khruawan)

Scientist

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(Khemmarin Thirarathaset)

Technical Supervisor

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Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (South Area)		
	November 2022		
	20-21		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
15:40-16:40	61.5	57.6	73.9
16:40-17:40	62.1		
17:40-18:40	59.4		
18:40-19:40	51.9		
19:40-20:40	52.3		
20:40-21:40	51.7		
21:40-22:40	50.6		
22:40-23:40	49.8	57.5	73.0
23:40-00:40	49.4		
00:40-01:40	48.9		
01:40-02:40	49.3		
02:40-03:40	49.1		
03:40-04:40	49.6		
04:40-05:40	50.2		
05:40-06:40	55.9	65.1	90.0
06:40-07:40	65.5		
07:40-08:40	65.3		
08:40-09:40	66.0		
09:40-10:40	65.3		
10:40-11:40	64.8		
11:40-12:40	63.6		
12:40-13:40	63.8	Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
13:40-14:40	65.7		
14:40-15:40	65.6		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R32)	ACO	6236	00192044
		Standard	
		IEC 61672	
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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Scientist

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Technical Supervisor

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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

1/7

RY0275/11/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 14-21 November 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 25 November 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (West Area)		
	November 2022		
	14-15		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:30-16:30	65.4	61.7	97.9
16:30-17:30	66.3		
17:30-18:30	63.4		
18:30-19:30	62.0		
19:30-20:30	48.6		
20:30-21:30	48.2		
21:30-22:30	48.9		
22:30-23:30	48.4		
23:30-00:30	48.5	49.7	70.7
00:30-01:30	50.1		
01:30-02:30	49.9		
02:30-03:30	49.2		
03:30-04:30	49.4		
04:30-05:30	49.6		
05:30-06:30	50.5		
06:30-07:30	50.3		
07:30-08:30	50.5	59.3	91.2
08:30-09:30	62.5		
09:30-10:30	57.1		
10:30-11:30	57.2		
11:30-12:30	50.9		
12:30-13:30	50.6		
13:30-14:30	62.4		
14:30-15:30	62.8		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R37)	ACO	6236	00192049
Standard			
IEC 61672			
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = 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.

(Tinarom Khruawan)

Scientist

25 / 11 / 22

(Khemmarin Thirarathaset)

Technical Supervisor

25 / 11 / 22





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2/7

RY0275/11/65

R-Pro-1010-4/2021

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Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 25 November 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (West Area)		
	November 2022		
	15-16		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:30-16:30	63.9	57.3	84.9
16:30-17:30	60.2		
17:30-18:30	48.2		
18:30-19:30	49.9		
19:30-20:30	48.8		
20:30-21:30	52.0		
21:30-22:30	52.7		
22:30-23:30	53.6		
23:30-00:30	53.2	51.2	74.8
00:30-01:30	49.2		
01:30-02:30	49.0		
02:30-03:30	50.6		
03:30-04:30	50.8		
04:30-05:30	51.4		
05:30-06:30	50.7		
06:30-07:30	52.7		
07:30-08:30	52.3	67.1	103.7
08:30-09:30	61.9		
09:30-10:30	71.5		
10:30-11:30	73.1		
11:30-12:30	49.5		
12:30-13:30	52.5		
13:30-14:30	59.3		
14:30-15:30	64.9		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R37)	ACO	6236	00192049
		Standard	
		IEC 61672	
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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[Signature]

Scientist  
25 / 11 / 22

[Signature]

Technical Supervisor  
25 / 11 / 22



RY0275/11/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 14-21 November 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 25 November 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (West Area)		
	November 2022		
	16-17		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:30-16:30	74.3	67.2	89.9
16:30-17:30	71.5		
17:30-18:30	55.1		
18:30-19:30	50.3		
19:30-20:30	49.4		
20:30-21:30	50.3		
21:30-22:30	47.7		
22:30-23:30	47.7		
23:30-00:30	49.7	50.3	77.0
00:30-01:30	49.8		
01:30-02:30	49.4		
02:30-03:30	49.2		
03:30-04:30	49.5		
04:30-05:30	49.6		
05:30-06:30	52.0		
06:30-07:30	52.2		
07:30-08:30	50.4	69.3	101.9
08:30-09:30	73.4		
09:30-10:30	72.3		
10:30-11:30	71.6		
11:30-12:30	47.2		
12:30-13:30	56.4		
13:30-14:30	66.0		
14:30-15:30	70.0		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R37)	ACO	6236	00192049
Standard			
IEC 61672			
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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(Tinarom Khruawan)  
Scientist

25 / 11 / 22

(Khemmarin Thirathaset)  
Technical Supervisor

25 / 11 / 22



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4/7

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Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 25 November 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (West Area)		
	November 2022		
	17-18		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:30-16:30	65.2	59.7	93.1
16:30-17:30	66.0		
17:30-18:30	50.6		
18:30-19:30	48.1		
19:30-20:30	47.6		
20:30-21:30	45.6		
21:30-22:30	43.7		
22:30-23:30	43.8		
23:30-00:30	44.0	47.3	75.8
00:30-01:30	44.0		
01:30-02:30	44.4		
02:30-03:30	45.3		
03:30-04:30	48.0		
04:30-05:30	48.5		
05:30-06:30	49.7		
06:30-07:30	49.8		
07:30-08:30	51.2	68.9	97.9
08:30-09:30	69.5		
09:30-10:30	67.5		
10:30-11:30	66.0		
11:30-12:30	48.9		
12:30-13:30	62.5		
13:30-14:30	69.8		
14:30-15:30	75.0		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R37)	ACO	6236	00192049
		Standard	
		IEC 61672	
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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(Tinarom Khruewan)

Scientist

25 / 11 / 22

(Khemmarin Thirathaset)

Technical Supervisor

25 / 11 / 22





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5/7

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### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 14-21 November 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 25 November 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (West Area)		
	November 2022		
	18-19		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:30-16:30	71.9	69.1	98.4
16:30-17:30	76.7		
17:30-18:30	64.8		
18:30-19:30	56.9		
19:30-20:30	48.7		
20:30-21:30	46.9		
21:30-22:30	45.8		
22:30-23:30	45.8		
23:30-00:30	48.6	55.4	77.5
00:30-01:30	46.0		
01:30-02:30	46.1		
02:30-03:30	46.5		
03:30-04:30	47.3		
04:30-05:30	45.9		
05:30-06:30	60.2		
06:30-07:30	61.6		
07:30-08:30	64.4	73.7	102.8
08:30-09:30	67.3		
09:30-10:30	77.8		
10:30-11:30	75.3		
11:30-12:30	65.9		
12:30-13:30	66.5		
13:30-14:30	76.7		
14:30-15:30	75.1		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R37)	ACO	6236	00192049
Standard			
IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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Scientist

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(Khemmarin Thirarathaset)

Technical Supervisor

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6/7

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Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (West Area)		
	November 2022		
	19-20		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:30-16:30	64.6	58.4	80.9
16:30-17:30	61.9		
17:30-18:30	56.6		
18:30-19:30	52.6		
19:30-20:30	51.9		
20:30-21:30	51.3		
21:30-22:30	48.4		
22:30-23:30	47.5		
23:30-00:30	47.9	50.3	68.7
00:30-01:30	49.1		
01:30-02:30	48.9		
02:30-03:30	48.8		
03:30-04:30	49.4		
04:30-05:30	50.1		
05:30-06:30	50.4		
06:30-07:30	54.2		
07:30-08:30	54.4	54.7	90.0
08:30-09:30	54.6		
09:30-10:30	54.7		
10:30-11:30	53.6		
11:30-12:30	52.9		
12:30-13:30	54.4		
13:30-14:30	55.8		
14:30-15:30	56.3		
Standard		Less Than 90.0	Less Than 140.0 <sup>(1)</sup> , 115.0 <sup>(2)</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R37)	ACO	6236	00192049
Standard			
IEC 61672			
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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(Tinarom Khruawan)

Scientist

25 / 11 / 22

(Khemmarin Thirathaset)

Technical Supervisor

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Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (West Area)		
	November 2022		
	20-21		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:30-16:30	61.6	57.5	78.4
16:30-17:30	60.9		
17:30-18:30	59.9		
18:30-19:30	53.4		
19:30-20:30	52.9		
20:30-21:30	52.8		
21:30-22:30	51.0		
22:30-23:30	48.5	56.3	79.0
23:30-00:30	47.8		
00:30-01:30	46.9		
01:30-02:30	47.8		
02:30-03:30	47.3		
03:30-04:30	47.9		
04:30-05:30	48.9		
05:30-06:30	52.8	73.5	101.5
06:30-07:30	64.6		
07:30-08:30	65.1		
08:30-09:30	74.6		
09:30-10:30	76.5		
10:30-11:30	75.8		
11:30-12:30	65.3		
12:30-13:30	65.0		
13:30-14:30	74.3		
14:30-15:30	74.8		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R37)	ACO	6236	00192049
Standard			
IEC 61672			
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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Scientist

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(Khemmarin Thirathaset)

Technical Supervisor

25 / 11 / 22



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S.P.S. CONSULTING SERVICE CO., LTD.  
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1/7

RY0275/11/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 14-21 November 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 25 November 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (North Area)		
	November 2022		
	14-15		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:05-16:05	63.0	59.2	98.3
16:05-17:05	60.9		
17:05-18:05	58.9		
18:05-19:05	63.7		
19:05-20:05	48.7		
20:05-21:05	47.8		
21:05-22:05	47.7		
22:05-23:05	47.4		
23:05-00:05	47.2	48.3	74.9
00:05-01:05	48.3		
01:05-02:05	48.3		
02:05-03:05	48.2		
03:05-04:05	48.3		
04:05-05:05	48.7		
05:05-06:05	48.5		
06:05-07:05	48.6		
07:05-08:05	49.9	58.2	96.5
08:05-09:05	61.9		
09:05-10:05	57.6		
10:05-11:05	60.3		
11:05-12:05	55.3		
12:05-13:05	48.5		
13:05-14:05	57.4		
14:05-15:05	60.1		
Standard		Less Than 90.0	Less Than 140.0 <sup>(1)</sup> , 115.0 <sup>(2)</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R 595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R05)	ACO	6236	00142020
		Standard	
		IEC 61672	
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<sup>(1)</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>(2)</sup> = 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.

(Tinarom Khruawan)

Scientist

25 / 11 / 22

(Khemmarin Thirarathaset)

Technical Supervisor

25 / 11 / 22





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2/7

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Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (North Area)		
	November 2022		
	15-16		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:05-16:05	60.4	56.3	93.2
16:05-17:05	62.1		
17:05-18:05	55.7		
18:05-19:05	47.6		
19:05-20:05	47.4		
20:05-21:05	47.4		
21:05-22:05	49.0		
22:05-23:05	49.8		
23:05-00:05	49.2	48.6	60.9
00:05-01:05	48.3		
01:05-02:05	47.5		
02:05-03:05	48.4		
03:05-04:05	48.4		
04:05-05:05	48.6		
05:05-06:05	49.4		
06:05-07:05	49.0		
07:05-08:05	49.3	64.4	94.8
08:05-09:05	61.9		
09:05-10:05	69.8		
10:05-11:05	68.8		
11:05-12:05	57.3		
12:05-13:05	47.4		
13:05-14:05	59.3		
14:05-15:05	63.1		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R05)	ACO	6236	00142020
		Standard	
		IEC 61672	
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

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(Tinarom Khruawean)

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(Khemmarin Thirarathaset)

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Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (North Area)		
	November 2022		
	16-17		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:05-16:05	59.8	57.2	87.1
16:05-17:05	62.8		
17:05-18:05	59.0		
18:05-19:05	53.3		
19:05-20:05	52.2		
20:05-21:05	48.7		
21:05-22:05	48.5		
22:05-23:05	47.3		
23:05-00:05	48.0	49.1	76.3
00:05-01:05	48.8		
01:05-02:05	48.8		
02:05-03:05	50.9		
03:05-04:05	48.5		
04:05-05:05	48.3		
05:05-06:05	49.0		
06:05-07:05	50.1		
07:05-08:05	50.8	63.2	100.2
08:05-09:05	62.6		
09:05-10:05	64.9		
10:05-11:05	69.0		
11:05-12:05	56.4		
12:05-13:05	48.8		
13:05-14:05	63.5		
14:05-15:05	60.8		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R.595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R05)	ACO	6236	00142020
		Standard	
		IEC 61672	
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

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Scientist

25 / 11 / 22

(Khemmarin Thiraratthaset)

Technical Supervisor

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Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (North Area)		
	November 2022		
	17-18		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:05-16:05	60.1	57.3	82.4
16:05-17:05	60.4		
17:05-18:05	61.1		
18:05-19:05	57.8		
19:05-20:05	53.1		
20:05-21:05	46.4		
21:05-22:05	45.2		
22:05-23:05	45.5		
23:05-00:05	45.7	46.5	63.6
00:05-01:05	45.4		
01:05-02:05	45.5		
02:05-03:05	45.8		
03:05-04:05	46.5		
04:05-05:05	47.0		
05:05-06:05	47.4		
06:05-07:05	47.8		
07:05-08:05	47.2	61.0	93.0
08:05-09:05	57.6		
09:05-10:05	61.0		
10:05-11:05	61.6		
11:05-12:05	56.6		
12:05-13:05	50.5		
13:05-14:05	66.6		
14:05-15:05	62.1		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R05)	ACO	6236	00142020
		Standard	
		IEC 61672	
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

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Sampling Method = Sound Level Meter

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Scientist

25 / 11 / 22

(Khemmarin Thirarathaset)

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5/7

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Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (North Area)		
	November 2022		
	18-19		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:05-16:05	62.5	59.3	86.5
16:05-17:05	61.4		
17:05-18:05	63.3		
18:05-19:05	57.5		
19:05-20:05	58.6		
20:05-21:05	53.3		
21:05-22:05	46.0		
22:05-23:05	46.2		
23:05-00:05	47.3	51.3	71.7
00:05-01:05	47.4		
01:05-02:05	47.1		
02:05-03:05	47.4		
03:05-04:05	47.8		
04:05-05:05	47.2		
05:05-06:05	53.7		
06:05-07:05	57.1		
07:05-08:05	56.0	62.9	89.2
08:05-09:05	65.7		
09:05-10:05	60.4		
10:05-11:05	61.5		
11:05-12:05	60.4		
12:05-13:05	60.1		
13:05-14:05	64.9		
14:05-15:05	65.6		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R. 595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R05)	ACO	6236	00142020
		Standard	
		IEC 61672	
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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Scientist

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(Khemmarin Thiraratthaset)

Technical Supervisor

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Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (North Area)			
	November 2022			
	19-20			
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]		L <sub>max</sub> [dB(A)]
15:05-16:05	62.8	57.1		81.3
16:05-17:05	60.9			
17:05-18:05	56.1			
18:05-19:05	52.4			
19:05-20:05	50.1			
20:05-21:05	50.4			
21:05-22:05	48.2			
22:05-23:05	47.1			
23:05-00:05	47.2	48.5		61.0
00:05-01:05	48.0			
01:05-02:05	48.2			
02:05-03:05	47.5			
03:05-04:05	48.4			
04:05-05:05	48.6			
05:05-06:05	49.1			
06:05-07:05	50.0			
07:05-08:05	50.5	53.9		87.3
08:05-09:05	51.0			
09:05-10:05	60.4			
10:05-11:05	50.7			
11:05-12:05	48.6			
12:05-13:05	50.6			
13:05-14:05	52.4			
14:05-15:05	51.9			
Standard		Less Than 90.0		Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data				
Calibrate Sheet No.: Noise R_595/22			13 November 2022	
Equipment	Brand	Model	Serial No.	Standard
Sound Level Meter (No.R05)	ACO	6236	00142020	IEC 61672
Actual Reading [dB]				
Before Adjustment		After Adjustment		
94.0		94.0		

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Sampling Method = Sound Level Meter

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(Tinarom Khruewan)

Scientist

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(Khemmarin Thiraratthaset)

Technical Supervisor

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Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Enclose Ground Flare Area (North Area)		
	November 2022		
	20-21		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
15:05-16:05	56.0	55.2	74.2
16:05-17:05	56.6		
17:05-18:05	60.5		
18:05-19:05	54.0		
19:05-20:05	51.3		
20:05-21:05	51.5		
21:05-22:05	49.6		
22:05-23:05	48.0		
23:05-00:05	47.7	51.0	71.7
00:05-01:05	47.0		
01:05-02:05	47.8		
02:05-03:05	47.0		
03:05-04:05	47.2		
04:05-05:05	48.0		
05:05-06:05	51.2		
06:05-07:05	57.4		
07:05-08:05	59.8	64.7	100.2
08:05-09:05	62.8		
09:05-10:05	64.6		
10:05-11:05	65.7		
11:05-12:05	61.3		
12:05-13:05	59.0		
13:05-14:05	69.6		
14:05-15:05	64.9		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_595/22		13 November 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R05)	ACO	6236	00142020
		Standard	
		IEC 61672	
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = 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.

  
(Tharom Thirarathaset)

Scientist

25 / 11 / 22



(Khemmarin Thirarathaset)

Technical Supervisor

25 / 11 / 22



## **Wastewater Treatment Plant 4**



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1/7

RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	8-9		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
16:00-17:00	70.9	70.7	82.3
17:00-18:00	71.2		
18:00-19:00	70.5		
19:00-20:00	70.6		
20:00-21:00	70.8		
21:00-22:00	71.1		
22:00-23:00	70.2		
23:00-00:00	70.0		
00:00-01:00	69.9	69.3	80.6
01:00-02:00	69.7		
02:00-03:00	69.2		
03:00-04:00	68.5		
04:00-05:00	68.2		
05:00-06:00	68.8		
06:00-07:00	69.2		
07:00-08:00	70.7		
08:00-09:00	71.0	72.6	98.2
09:00-10:00	73.0		
10:00-11:00	73.1		
11:00-12:00	72.6		
12:00-13:00	72.3		
13:00-14:00	73.9		
14:00-15:00	72.2		
15:00-16:00	72.0		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R11)	ACO	6236	00172038
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

#### Remark:

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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

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

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(Darin Thongsri)

Scientist

20 / 09 / 22

(Kitti Srithonglor)

Technical Supervisor

20 / 09 / 22



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2/7

RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

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Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	9-10		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	72.1	70.5	90.9
17:00-18:00	70.3		
18:00-19:00	70.4		
19:00-20:00	70.6		
20:00-21:00	70.5		
21:00-22:00	70.7		
22:00-23:00	69.5		
23:00-00:00	69.0	69.6	83.8
00:00-01:00	67.8		
01:00-02:00	68.2		
02:00-03:00	68.9		
03:00-04:00	69.9		
04:00-05:00	69.8		
05:00-06:00	70.0		
06:00-07:00	70.6	72.4	95.5
07:00-08:00	70.4		
08:00-09:00	70.5		
09:00-10:00	72.1		
10:00-11:00	72.7		
11:00-12:00	75.1		
12:00-13:00	70.2		
13:00-14:00	71.5		
14:00-15:00	73.2		
15:00-16:00	71.6		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R11)	ACO	6236	00172038
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

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Sampling Method = Sound Level Meter

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(Darin Thongsri)

Scientist

20 / 09 / 22

(Kitti Srithonglor)

Technical Supervisor

20 / 09 / 22





RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	10-11		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	72.9	71.2	92.3
17:00-18:00	72.0		
18:00-19:00	71.5		
19:00-20:00	72.1		
20:00-21:00	70.5		
21:00-22:00	70.2		
22:00-23:00	69.9		
23:00-00:00	69.2		
00:00-01:00	68.5	69.4	88.3
01:00-02:00	69.6		
02:00-03:00	69.5		
03:00-04:00	69.5		
04:00-05:00	69.5		
05:00-06:00	69.3		
06:00-07:00	69.5		
07:00-08:00	69.6		
08:00-09:00	70.4	71.3	94.6
09:00-10:00	72.2		
10:00-11:00	70.9		
11:00-12:00	71.6		
12:00-13:00	70.0		
13:00-14:00	72.0		
14:00-15:00	71.6		
15:00-16:00	71.2		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R11)	ACO	6236	00172038
Standard IEC 61672			
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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Scientist

20 / 09 / 22



(Kitti Srithonglor)

Technical Supervisor

20 / 09 / 22



บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด  
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RY0071/09/65

R-Pro-1010-4/2021

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Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	11-12		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	71.8	71.0	89.3
17:00-18:00	71.5		
18:00-19:00	72.3		
19:00-20:00	70.7		
20:00-21:00	70.2		
21:00-22:00	70.4		
22:00-23:00	70.6		
23:00-00:00	69.8		
00:00-01:00	69.8	69.6	89.4
01:00-02:00	69.2		
02:00-03:00	68.7		
03:00-04:00	69.7		
04:00-05:00	69.5		
05:00-06:00	69.8		
06:00-07:00	69.8		
07:00-08:00	69.9		
08:00-09:00	70.0	72.1	94.1
09:00-10:00	72.1		
10:00-11:00	72.9		
11:00-12:00	73.5		
12:00-13:00	71.4		
13:00-14:00	72.3		
14:00-15:00	71.5		
15:00-16:00	72.2		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R11)	ACO	6236	00172038
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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Scientist

20, 09, 22

(Kitti Srithonglor)

Technical Supervisor

20, 09, 22



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5/7

RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	12-13		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	71.4	70.2	91.6
17:00-18:00	70.1		
18:00-19:00	70.8		
19:00-20:00	71.5		
20:00-21:00	69.4		
21:00-22:00	69.4		
22:00-23:00	69.3		
23:00-00:00	68.9		
00:00-01:00	68.8	69.0	85.7
01:00-02:00	68.8		
02:00-03:00	68.7		
03:00-04:00	68.7		
04:00-05:00	68.6		
05:00-06:00	68.7		
06:00-07:00	69.3		
07:00-08:00	69.9		
08:00-09:00	70.1	70.6	94.9
09:00-10:00	71.5		
10:00-11:00	71.2		
11:00-12:00	70.3		
12:00-13:00	69.4		
13:00-14:00	70.1		
14:00-15:00	71.0		
15:00-16:00	70.6		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R11)	ACO	6236	00172038
Standard IEC 61672			
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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Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22





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R-Pro-1010-4/2021

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Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	13-14		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	70.6	70.1	89.5
17:00-18:00	71.3		
18:00-19:00	71.0		
19:00-20:00	70.5		
20:00-21:00	70.2		
21:00-22:00	69.3		
22:00-23:00	69.2		
23:00-00:00	67.6		
00:00-01:00	68.5	69.7	79.0
01:00-02:00	68.2		
02:00-03:00	69.7		
03:00-04:00	68.8		
04:00-05:00	69.2		
05:00-06:00	70.2		
06:00-07:00	70.5		
07:00-08:00	71.4		
08:00-09:00	71.0	71.1	89.6
09:00-10:00	72.2		
10:00-11:00	71.2		
11:00-12:00	71.1		
12:00-13:00	70.6		
13:00-14:00	70.3		
14:00-15:00	71.2		
15:00-16:00	70.8		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R11)	ACO	6236	00172038
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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(Darin Thongsri) ✓

Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22



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Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	14-15		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	71.0	70.5	87.3
17:00-18:00	70.8		
18:00-19:00	70.7		
19:00-20:00	70.8		
20:00-21:00	70.8		
21:00-22:00	71.0		
22:00-23:00	69.8		
23:00-00:00	69.1		
00:00-01:00	68.9	69.3	78.5
01:00-02:00	68.7		
02:00-03:00	68.8		
03:00-04:00	68.6		
04:00-05:00	68.7		
05:00-06:00	68.6		
06:00-07:00	70.6		
07:00-08:00	70.6		
08:00-09:00	70.7	71.6	91.9
09:00-10:00	71.8		
10:00-11:00	72.2		
11:00-12:00	71.8		
12:00-13:00	70.8		
13:00-14:00	72.7		
14:00-15:00	70.8		
15:00-16:00	71.2		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R11)	ACO	6236	00172038
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

#### Remark:

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Standard<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
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Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October 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.

(Darin Thongsri)

Scientist

20/09/22

(Kitti Srithonglor)

Technical Supervisor

20/09/22



RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	8-9		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	77.4	78.6	98.3
17:00-18:00	78.6		
18:00-19:00	78.5		
19:00-20:00	79.0		
20:00-21:00	79.3		
21:00-22:00	79.5		
22:00-23:00	78.4		
23:00-00:00	77.7		
00:00-01:00	77.0	76.9	87.3
01:00-02:00	76.9		
02:00-03:00	76.7		
03:00-04:00	76.6		
04:00-05:00	76.7		
05:00-06:00	76.9		
06:00-07:00	77.1		
07:00-08:00	77.6		
08:00-09:00	79.3	79.7	93.9
09:00-10:00	81.3		
10:00-11:00	81.0		
11:00-12:00	81.1		
12:00-13:00	80.5		
13:00-14:00	78.0		
14:00-15:00	76.7		
15:00-16:00	77.0		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October 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.

(Darin Thongsri)

Scientist

20 / 09 / 22

(Kitri Srithonglor)

Technical Supervisor

20 / 09 / 22





RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	9-10		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
16:00-17:00	77.0	77.2	81.3
17:00-18:00	76.9		
18:00-19:00	77.0		
19:00-20:00	77.3		
20:00-21:00	77.3		
21:00-22:00	77.1		
22:00-23:00	77.3		
23:00-00:00	77.4		
00:00-01:00	77.3	77.2	79.9
01:00-02:00	77.2		
02:00-03:00	77.2		
03:00-04:00	77.0		
04:00-05:00	77.1		
05:00-06:00	77.2		
06:00-07:00	77.4		
07:00-08:00	77.1		
08:00-09:00	77.0	79.1	103.4
09:00-10:00	77.1		
10:00-11:00	78.2		
11:00-12:00	79.4		
12:00-13:00	76.8		
13:00-14:00	80.4		
14:00-15:00	81.0		
15:00-16:00	80.7		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R03)	ACO	6236	00132031
		Standard	
		IEC 61672	
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment  
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on 17 October 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.

Scientist

20 / 09 / 22

(Kitti Srithonglor)

Technical Supervisor

20 / 09 / 22



RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	10-11		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	77.9	77.4	98.3
17:00-18:00	79.9		
18:00-19:00	77.3		
19:00-20:00	77.6		
20:00-21:00	77.2		
21:00-22:00	76.5		
22:00-23:00	75.5		
23:00-00:00	76.0		
00:00-01:00	76.1	75.7	82.8
01:00-02:00	75.7		
02:00-03:00	75.6		
03:00-04:00	75.5		
04:00-05:00	75.6		
05:00-06:00	75.6		
06:00-07:00	75.7		
07:00-08:00	75.6		
08:00-09:00	78.6	78.3	103.2
09:00-10:00	80.2		
10:00-11:00	75.3		
11:00-12:00	75.8		
12:00-13:00	75.8		
13:00-14:00	77.4		
14:00-15:00	79.6		
15:00-16:00	80.4		
Standard		Less Than 90.0	Less Than 140.0 <sup>(1)</sup> , 115.0 <sup>(2)</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.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<sup>(1)</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>(2)</sup> = 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) Published in the Government Gazette on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

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

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Scientist

10 / 09 / 22

Technical Supervisor

10 / 09 / 22



RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	11-12		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	78.2	76.1	96.8
17:00-18:00	75.6		
18:00-19:00	76.6		
19:00-20:00	76.2		
20:00-21:00	76.1		
21:00-22:00	76.0		
22:00-23:00	76.1		
23:00-00:00	76.1		
00:00-01:00	75.6	77.4	89.6
01:00-02:00	79.6		
02:00-03:00	80.1		
03:00-04:00	76.1		
04:00-05:00	75.9		
05:00-06:00	75.9		
06:00-07:00	76.0		
07:00-08:00	76.3		
08:00-09:00	76.3	77.8	99.3
09:00-10:00	77.1		
10:00-11:00	77.7		
11:00-12:00	78.4		
12:00-13:00	77.4		
13:00-14:00	77.4		
14:00-15:00	78.8		
15:00-16:00	79.0		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.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)

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Standard<sup>[2]</sup> = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment  
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on 17 October 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.

Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22





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

5/7

RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	12-13		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
16:00-17:00	77.3	76.8	98.7
17:00-18:00	76.2		
18:00-19:00	76.4		
19:00-20:00	76.9		
20:00-21:00	76.7		
21:00-22:00	76.8		
22:00-23:00	76.4		
23:00-00:00	77.3		
00:00-01:00	77.6	77.4	81.2
01:00-02:00	77.8		
02:00-03:00	77.8		
03:00-04:00	77.6		
04:00-05:00	77.4		
05:00-06:00	77.3		
06:00-07:00	77.6		
07:00-08:00	76.3		
08:00-09:00	75.5	77.5	95.3
09:00-10:00	76.5		
10:00-11:00	76.9		
11:00-12:00	77.9		
12:00-13:00	77.2		
13:00-14:00	77.7		
14:00-15:00	78.8		
15:00-16:00	78.5		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.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)

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

Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October 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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(Darin Thongsri) ๑

Scientist

๒๐ / ๐๙ / ๒๒

Technical Supervisor

๒๐ / ๐๙ / ๒๒



RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	13-14		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	78.9	77.8	95.8
17:00-18:00	78.4		
18:00-19:00	77.8		
19:00-20:00	77.8		
20:00-21:00	77.6		
21:00-22:00	77.7		
22:00-23:00	77.4		
23:00-00:00	76.9		
00:00-01:00	77.4	77.4	89.1
01:00-02:00	77.7		
02:00-03:00	77.6		
03:00-04:00	78.8		
04:00-05:00	77.5		
05:00-06:00	78.3		
06:00-07:00	76.6		
07:00-08:00	76.5		
08:00-09:00	76.2	78.7	95.3
09:00-10:00	79.1		
10:00-11:00	79.0		
11:00-12:00	77.5		
12:00-13:00	77.0		
13:00-14:00	77.0		
14:00-15:00	80.5		
15:00-16:00	81.1		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
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Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October 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.

Scientist

20/09/22

Technical Supervisor

20/09/22



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

7/7

RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	14-15		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	80.5	80.0	82.9
17:00-18:00	80.3		
18:00-19:00	79.6		
19:00-20:00	80.1		
20:00-21:00	79.9		
21:00-22:00	80.2		
22:00-23:00	79.4		
23:00-00:00	79.6		
00:00-01:00	79.7	79.1	87.5
01:00-02:00	79.8		
02:00-03:00	79.0		
03:00-04:00	77.4		
04:00-05:00	78.6		
05:00-06:00	78.7		
06:00-07:00	78.8		
07:00-08:00	80.0		
08:00-09:00	81.3	80.7	90.6
09:00-10:00	81.2		
10:00-11:00	80.5		
11:00-12:00	80.6		
12:00-13:00	80.6		
13:00-14:00	80.7		
14:00-15:00	80.1		
15:00-16:00	80.5		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.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)

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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.

Scientist

20/09/22

Technical Supervisor

20/09/22





RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	8-9		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	71.2	69.9	96.1
17:00-18:00	69.8		
18:00-19:00	69.9		
19:00-20:00	69.4		
20:00-21:00	69.5		
21:00-22:00	69.9		
22:00-23:00	69.8		
23:00-00:00	69.6		
00:00-01:00	70.2	70.0	85.2
01:00-02:00	70.1		
02:00-03:00	70.1		
03:00-04:00	69.9		
04:00-05:00	69.9		
05:00-06:00	70.0		
06:00-07:00	70.1		
07:00-08:00	69.9		
08:00-09:00	69.9	70.8	94.2
09:00-10:00	70.3		
10:00-11:00	70.3		
11:00-12:00	70.2		
12:00-13:00	70.1		
13:00-14:00	71.5		
14:00-15:00	71.8		
15:00-16:00	71.7		
Standard		Less Than 90.0	Less Than 140.0 <sup>(1)</sup> , 115.0 <sup>(2)</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R06)	ACO	6236	00152005
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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Standard<sup>(2)</sup> = 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) Published in the Government Gazette  
on 17 October 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.

Scientist

20/09/22

Technical Supervisor

20/09/22



RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	9-10		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
16:00-17:00	70.1	69.8	86.7
17:00-18:00	69.8		
18:00-19:00	69.8		
19:00-20:00	70.0		
20:00-21:00	69.6		
21:00-22:00	69.4		
22:00-23:00	69.6		
23:00-00:00	70.0		
00:00-01:00	69.7	69.2	82.3
01:00-02:00	69.9		
02:00-03:00	69.8		
03:00-04:00	68.9		
04:00-05:00	68.7		
05:00-06:00	68.7		
06:00-07:00	68.7		
07:00-08:00	68.8		
08:00-09:00	68.8	72.8	92.5
09:00-10:00	72.0		
10:00-11:00	73.0		
11:00-12:00	73.8		
12:00-13:00	71.3		
13:00-14:00	73.1		
14:00-15:00	72.5		
15:00-16:00	75.2		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R06)	ACO	6236	00152005
		Standard	
		IEC 61672	
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October 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.

Scientist

20, 09, 22

Technical Supervisor

20, 09, 22



RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	10-11		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
16:00-17:00	72.2	69.6	87.3
17:00-18:00	70.7		
18:00-19:00	69.8		
19:00-20:00	69.5		
20:00-21:00	68.9		
21:00-22:00	68.8		
22:00-23:00	68.5		
23:00-00:00	68.5		
00:00-01:00	68.7	68.8	88.4
01:00-02:00	68.7		
02:00-03:00	68.8		
03:00-04:00	68.8		
04:00-05:00	68.8		
05:00-06:00	68.9		
06:00-07:00	69.0		
07:00-08:00	68.6		
08:00-09:00	69.0	69.5	91.0
09:00-10:00	69.9		
10:00-11:00	68.7		
11:00-12:00	68.6		
12:00-13:00	68.8		
13:00-14:00	69.6		
14:00-15:00	70.2		
15:00-16:00	70.8		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R06)	ACO	6236	00152005
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = 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) Published in the Government Gazette on 17 October 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.

Scientist

20 / 09 / 22

(Kitti Sirinongtor)

Technical Supervisor

20 / 09 / 22





RY0071/09/85

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	11-12		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	68.7	69.0	89.1
17:00-18:00	69.1		
18:00-19:00	69.3		
19:00-20:00	68.8		
20:00-21:00	68.7		
21:00-22:00	68.7		
22:00-23:00	69.0		
23:00-00:00	69.2		
00:00-01:00	70.0	69.6	86.6
01:00-02:00	71.1		
02:00-03:00	71.5		
03:00-04:00	68.5		
04:00-05:00	67.8		
05:00-06:00	68.2		
06:00-07:00	68.4		
07:00-08:00	69.5		
08:00-09:00	69.7	69.7	89.2
09:00-10:00	69.8		
10:00-11:00	69.4		
11:00-12:00	69.4		
12:00-13:00	69.6		
13:00-14:00	69.7		
14:00-15:00	70.0		
15:00-16:00	70.1		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R06)	ACO	6236	00152005
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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Standard<sup>[2]</sup> = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment  
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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

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

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Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22



RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	12-13		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	69.2	69.2	85.5
17:00-18:00	69.1		
18:00-19:00	69.3		
19:00-20:00	69.2		
20:00-21:00	69.0		
21:00-22:00	69.1		
22:00-23:00	69.3		
23:00-00:00	69.2		
00:00-01:00	69.1	69.1	83.3
01:00-02:00	69.0		
02:00-03:00	69.1		
03:00-04:00	69.0		
04:00-05:00	69.0		
05:00-06:00	69.1		
06:00-07:00	69.1		
07:00-08:00	69.0		
08:00-09:00	68.9	71.1	86.0
09:00-10:00	69.8		
10:00-11:00	72.1		
11:00-12:00	72.0		
12:00-13:00	69.8		
13:00-14:00	70.3		
14:00-15:00	73.9		
15:00-16:00	69.9		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R06)	ACO	6236	00152005
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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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

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

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Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22



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@spsscon.com., www.spsscon.com

6/7

RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000 Date Reported : 20 September 2022  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	13-14		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	70.6	69.6	92.6
17:00-18:00	69.9		
18:00-19:00	69.9		
19:00-20:00	69.3		
20:00-21:00	69.3		
21:00-22:00	69.2		
22:00-23:00	69.2		
23:00-00:00	69.4		
00:00-01:00	70.0	70.2	90.0
01:00-02:00	69.4		
02:00-03:00	69.5		
03:00-04:00	71.6		
04:00-05:00	69.9		
05:00-06:00	69.1		
06:00-07:00	70.6		
07:00-08:00	70.8		
08:00-09:00	69.7	71.4	88.1
09:00-10:00	69.4		
10:00-11:00	72.2		
11:00-12:00	70.4		
12:00-13:00	69.5		
13:00-14:00	71.6		
14:00-15:00	72.8		
15:00-16:00	73.8		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R06)	ACO	6236	00152005
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

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

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Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22





บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด  
S.P.S. CONSULTING SERVICE CO., LTD.  
7 ซอยพหลโยธิน 24 ถนนพหลโยธิน แขวงจตุจักร 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

7/7

RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	14-15		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	70.9	70.0	88.6
17:00-18:00	69.8		
18:00-19:00	70.1		
19:00-20:00	69.9		
20:00-21:00	70.0		
21:00-22:00	70.0		
22:00-23:00	69.8		
23:00-00:00	69.6		
00:00-01:00	69.7	69.2	83.9
01:00-02:00	69.7		
02:00-03:00	69.1		
03:00-04:00	69.3		
04:00-05:00	69.2		
05:00-06:00	69.0		
06:00-07:00	68.9		
07:00-08:00	69.0		
08:00-09:00	69.1	72.3	96.3
09:00-10:00	72.0		
10:00-11:00	73.8		
11:00-12:00	72.3		
12:00-13:00	69.3		
13:00-14:00	73.1		
14:00-15:00	73.6		
15:00-16:00	73.1		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R06)	ACO	6236	00152005
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment  
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on 17 October 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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Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22



RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area			
	September 2022			
	8-9			
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]	
16:00-17:00	74.4	74.7	94.3	
17:00-18:00	74.7			
18:00-19:00	74.7			
19:00-20:00	74.6			
20:00-21:00	74.7			
21:00-22:00	74.7			
22:00-23:00	74.9			
23:00-00:00	74.8			
00:00-01:00	75.0	75.0	80.5	
01:00-02:00	75.0			
02:00-03:00	75.0			
03:00-04:00	74.9			
04:00-05:00	74.9			
05:00-06:00	75.0			
06:00-07:00	74.9			
07:00-08:00	75.0			
08:00-09:00	74.9	74.9	100.9	
09:00-10:00	75.0			
10:00-11:00	74.9			
11:00-12:00	74.5			
12:00-13:00	74.3			
13:00-14:00	74.8			
14:00-15:00	75.4			
15:00-16:00	75.0			
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>	
Sound Level Meter Data				
Calibrate Sheet No.: Noise R_461/22		07 September 2022		
Equipment	Brand	Model	Serial No.	Standard
Sound Level Meter (No.R08)	ACO	6236	00152082	IEC 61672
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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on 17 October 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.

Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22



RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	9-10		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	74.7	74.7	87.6
17:00-18:00	74.6		
18:00-19:00	74.6		
19:00-20:00	74.8		
20:00-21:00	74.6		
21:00-22:00	74.5		
22:00-23:00	74.6		
23:00-00:00	74.8		
00:00-01:00	74.6	74.4	85.5
01:00-02:00	74.6		
02:00-03:00	74.4		
03:00-04:00	74.3		
04:00-05:00	74.4		
05:00-06:00	74.3		
06:00-07:00	74.3		
07:00-08:00	74.5		
08:00-09:00	74.3	76.5	98.7
09:00-10:00	75.3		
10:00-11:00	76.1		
11:00-12:00	76.8		
12:00-13:00	74.4		
13:00-14:00	77.3		
14:00-15:00	77.2		
15:00-16:00	78.6		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R08)	ACO	6236	00152082
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

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

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

Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22





RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	10-11		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	74.9	74.8	88.8
17:00-18:00	75.4		
18:00-19:00	75.0		
19:00-20:00	74.7		
20:00-21:00	74.6		
21:00-22:00	74.6		
22:00-23:00	74.7		
23:00-00:00	74.6		
00:00-01:00	74.5	74.5	85.7
01:00-02:00	74.6		
02:00-03:00	74.6		
03:00-04:00	74.7		
04:00-05:00	74.6		
05:00-06:00	74.4		
06:00-07:00	74.3		
07:00-08:00	74.3		
08:00-09:00	74.4	75.0	97.3
09:00-10:00	74.3		
10:00-11:00	74.4		
11:00-12:00	74.3		
12:00-13:00	75.1		
13:00-14:00	75.9		
14:00-15:00	76.7		
15:00-16:00	74.6		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R08)	ACO	6236	00152082
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October 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.

Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22



บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด  
S.P.S. CONSULTING SERVICE CO., LTD.  
7 ซอยพหลโยธิน 24 ถนนพหลโยธิน แขวงจตุจักร 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

4/7

RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	11-12		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
16:00-17:00	74.7	74.8	87.2
17:00-18:00	74.6		
18:00-19:00	74.7		
19:00-20:00	74.8		
20:00-21:00	74.8		
21:00-22:00	74.9		
22:00-23:00	74.8		
23:00-00:00	75.0		
00:00-01:00	75.0	75.0	81.4
01:00-02:00	75.0		
02:00-03:00	74.9		
03:00-04:00	75.0		
04:00-05:00	74.9		
05:00-06:00	75.0		
06:00-07:00	74.9		
07:00-08:00	74.9		
08:00-09:00	75.2	74.4	96.4
09:00-10:00	74.7		
10:00-11:00	74.4		
11:00-12:00	74.0		
12:00-13:00	73.6		
13:00-14:00	73.3		
14:00-15:00	72.8		
15:00-16:00	76.4		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R08)	ACO	6286	00152082
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October 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.

Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22



บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด  
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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

5/7

RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	12-13		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
16:00-17:00	75.5	74.6	95.7
17:00-18:00	74.4		
18:00-19:00	74.7		
19:00-20:00	75.1		
20:00-21:00	74.3		
21:00-22:00	74.2		
22:00-23:00	74.3		
23:00-00:00	74.3		
00:00-01:00	74.4	73.9	79.2
01:00-02:00	74.3		
02:00-03:00	74.3		
03:00-04:00	74.3		
04:00-05:00	73.0		
05:00-06:00	74.3		
06:00-07:00	73.2		
07:00-08:00	73.5		
08:00-09:00	74.0	74.6	96.2
09:00-10:00	74.1		
10:00-11:00	73.2		
11:00-12:00	73.0		
12:00-13:00	73.9		
13:00-14:00	74.6		
14:00-15:00	76.2		
15:00-16:00	76.2		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R08)	ACO	6236	00152082
		Standard	
		IEC 61672	
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
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Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October 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.

Scientist

20 / 09 / 22

Technical Supervisor

20 / 09 / 22





RY0071/09/65

R-Pro-1010-4/2021

## Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000 Date Reported : 20 September 2022  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area			
	September 2022			
	13-14			
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]	
16:00-17:00	76.3	75.0	94.3	
17:00-18:00	76.0			
18:00-19:00	75.5			
19:00-20:00	74.5			
20:00-21:00	74.2			
21:00-22:00	74.3			
22:00-23:00	74.2			
23:00-00:00	74.3			
00:00-01:00	74.4	74.6	93.6	
01:00-02:00	74.2			
02:00-03:00	74.3			
03:00-04:00	75.4			
04:00-05:00	74.4			
05:00-06:00	74.1			
06:00-07:00	74.8			
07:00-08:00	75.1			
08:00-09:00	74.6	75.0	96.2	
09:00-10:00	75.2			
10:00-11:00	75.4			
11:00-12:00	74.3			
12:00-13:00	74.2			
13:00-14:00	74.8			
14:00-15:00	75.6			
15:00-16:00	75.7			
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>	
Sound Level Meter Data				
Calibrate Sheet No.: Noise R_461/22		07 September 2022		
Equipment	Brand	Model	Serial No.	Standard
Sound Level Meter (No.R08)	ACO	6236	00152082	IEC 61672
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October 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.

Scientist

20/09/22

Technical Supervisor

20/09/22



RY0071/09/65

R-Pro-1010-4/2021

### Noise Level Report

Project : Ultra Clean Fule (UCF) Diesel Euro V Sampling Date : 8-15 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 20 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Hyundai Engineering Company  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	14-15		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
16:00-17:00	74.1	74.1	87.2
17:00-18:00	74.0		
18:00-19:00	74.1		
19:00-20:00	74.0		
20:00-21:00	74.1		
21:00-22:00	74.2		
22:00-23:00	74.0		
23:00-00:00	73.9		
00:00-01:00	74.0	73.9	86.1
01:00-02:00	73.9		
02:00-03:00	73.8		
03:00-04:00	74.1		
04:00-05:00	74.0		
05:00-06:00	73.9		
06:00-07:00	73.9		
07:00-08:00	73.8		
08:00-09:00	73.7	74.2	87.7
09:00-10:00	74.3		
10:00-11:00	74.9		
11:00-12:00	73.9		
12:00-13:00	73.5		
13:00-14:00	74.7		
14:00-15:00	74.1		
15:00-16:00	74.3		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_461/22		07 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R08)	ACO	6236	00152082
		Standard	
		IEC 61672	
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<sup>(1)</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>(2)</sup> = 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) Published in the Government Gazette  
on 17 October 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.

Scientist

20, 09, 22

Technical Supervisor

20, 09, 22

## **Hydrogen Manufacturing Unit**





RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 28 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	14-15		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
13:00-14:00	70.0	69.1	97.0
14:00-15:00	71.4		
15:00-16:00	70.1		
16:00-17:00	69.2		
17:00-18:00	68.9		
18:00-19:00	67.6		
19:00-20:00	66.8		
20:00-21:00	66.4		
21:00-22:00	66.2	66.0	85.5
22:00-23:00	66.9		
23:00-00:00	66.0		
00:00-01:00	65.2		
01:00-02:00	65.3		
02:00-03:00	65.9		
03:00-04:00	66.7		
04:00-05:00	65.6		
05:00-06:00	65.8	68.4	90.9
06:00-07:00	66.7		
07:00-08:00	66.3		
08:00-09:00	68.8		
09:00-10:00	70.2		
10:00-11:00	70.4		
11:00-12:00	69.1		
12:00-13:00	67.8		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R29)	ACO	6236	00192041
Standard			
IEC 61672			
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October 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.

Scientist

26/09/22

Technical Supervisor

26/09/22



RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	15-16		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
13:00-14:00	70.1	72.4	94.2
14:00-15:00	69.9		
15:00-16:00	75.4		
16:00-17:00	74.5		
17:00-18:00	72.6		
18:00-19:00	72.8		
19:00-20:00	71.3		
20:00-21:00	67.3		
21:00-22:00	66.7	65.9	70.1
22:00-23:00	65.2		
23:00-00:00	65.5		
00:00-01:00	65.9		
01:00-02:00	65.8		
02:00-03:00	65.8		
03:00-04:00	66.0		
04:00-05:00	66.0		
05:00-06:00	66.1	69.0	92.4
06:00-07:00	65.9		
07:00-08:00	65.8		
08:00-09:00	67.0		
09:00-10:00	72.6		
10:00-11:00	70.3		
11:00-12:00	68.4		
12:00-13:00	70.6		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R29)	ACO	6236	00192041
Standard			
IEC 61672			
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
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on 17 October 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.

(Darn Thongsri)

Scientist

26/09/22

(Kitti Sritonglor)

Technical Supervisor

26/09/22





RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	16-17		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
13:00-14:00	67.1	70.3	93.1
14:00-15:00	70.1		
15:00-16:00	73.7		
16:00-17:00	71.9		
17:00-18:00	71.8		
18:00-19:00	67.3		
19:00-20:00	68.3		
20:00-21:00	67.1	66.0	80.8
21:00-22:00	66.6		
22:00-23:00	66.4		
23:00-00:00	66.9		
00:00-01:00	66.2		
01:00-02:00	65.4		
02:00-03:00	65.2		
03:00-04:00	65.4	68.6	90.4
04:00-05:00	65.3		
05:00-06:00	65.5		
06:00-07:00	65.5		
07:00-08:00	65.7		
08:00-09:00	67.9		
09:00-10:00	68.6		
10:00-11:00	68.7		
11:00-12:00	71.4		
12:00-13:00	70.9		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R29)	ACO	6236	00192041
Standard IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

#### Remark:

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Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October 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.

Scientist

26 / 09 / 22

(Kitti Srithonglor)

Technical Supervisor

26 / 09 / 22





RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	17-18		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
13:00-14:00	70.3	69.2	89.1
14:00-15:00	68.7		
15:00-16:00	68.2		
16:00-17:00	69.1		
17:00-18:00	69.8		
18:00-19:00	69.6		
19:00-20:00	70.1		
20:00-21:00	67.5		
21:00-22:00	66.0	65.4	73.1
22:00-23:00	65.4		
23:00-00:00	65.4		
00:00-01:00	65.3		
01:00-02:00	65.4		
02:00-03:00	65.4		
03:00-04:00	65.3		
04:00-05:00	65.2		
05:00-06:00	65.7	70.0	93.2
06:00-07:00	65.4		
07:00-08:00	65.2		
08:00-09:00	66.0		
09:00-10:00	72.3		
10:00-11:00	71.3		
11:00-12:00	68.9		
12:00-13:00	74.3		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October 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.

Scientist

26, 09, 22

(Kitti Srithonglor)

Technical Supervisor

26, 09, 22



RY0073/09/85

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	18-19		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
13:00-14:00	71.8	70.8	96.3
14:00-15:00	73.0		
15:00-16:00	72.0		
16:00-17:00	69.3		
17:00-18:00	69.3		
18:00-19:00	71.6		
19:00-20:00	70.5		
20:00-21:00	65.5		
21:00-22:00	65.3	66.5	80.3
22:00-23:00	66.7		
23:00-00:00	67.4		
00:00-01:00	67.6		
01:00-02:00	67.2		
02:00-03:00	66.3		
03:00-04:00	65.7		
04:00-05:00	65.5		
05:00-06:00	65.7	68.3	91.3
06:00-07:00	65.7		
07:00-08:00	66.0		
08:00-09:00	68.2		
09:00-10:00	71.0		
10:00-11:00	69.8		
11:00-12:00	68.8		
12:00-13:00	68.2		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R29)	ACO	6236	00192041
Standard IEC 61672			
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

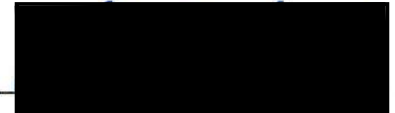
Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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



Scientist  
26 / 09 / 22



Technical Supervisor  
26 / 09 / 22



RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	19-20		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
13:00-14:00	67.8	70.0	91.1
14:00-15:00	69.5		
15:00-16:00	72.4		
16:00-17:00	72.3		
17:00-18:00	70.6		
18:00-19:00	68.8		
19:00-20:00	67.6		
20:00-21:00	67.2		
21:00-22:00	65.5	65.5	72.2
22:00-23:00	65.5		
23:00-00:00	65.5		
00:00-01:00	65.7		
01:00-02:00	65.6		
02:00-03:00	65.6		
03:00-04:00	65.5		
04:00-05:00	65.5		
05:00-06:00	65.7	67.6	90.3
06:00-07:00	65.7		
07:00-08:00	65.7		
08:00-09:00	66.6		
09:00-10:00	68.1		
10:00-11:00	69.0		
11:00-12:00	69.1		
12:00-13:00	69.0		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R29)	ACO	6236	00192041
Standard			
IEC 61672			
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October 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.

[Redacted Signature]

Scientist  
26, 09, 22

[Redacted Signature]

Technical Supervisor  
26, 09, 22





RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	East Area		
	September 2022		
	20-21		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
13:00-14:00	67.6	70.7	92.9
14:00-15:00	69.5		
15:00-16:00	70.1		
16:00-17:00	70.6		
17:00-18:00	69.1		
18:00-19:00	68.9		
19:00-20:00	70.8		
20:00-21:00	74.6		
21:00-22:00	66.2	65.6	74.3
22:00-23:00	65.8		
23:00-00:00	65.4		
00:00-01:00	65.3		
01:00-02:00	65.3		
02:00-03:00	65.4		
03:00-04:00	65.5		
04:00-05:00	65.5		
05:00-06:00	66.0	70.1	93.1
06:00-07:00	65.6		
07:00-08:00	65.4		
08:00-09:00	65.6		
09:00-10:00	72.9		
10:00-11:00	73.1		
11:00-12:00	71.5		
12:00-13:00	71.5		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R29)	ACO	6236	00192041
Standard			
IEC 61672			
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
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Standard<sup>[2]</sup> = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment  
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on 17 October 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.



Scientist

26/09/22



Technical Supervisor

26/09/22



RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	14-15		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
12:00-13:00	72.3	72.7	93.8
13:00-14:00	73.0		
14:00-15:00	73.0		
15:00-16:00	72.7		
16:00-17:00	73.2		
17:00-18:00	72.6		
18:00-19:00	72.7		
19:00-20:00	72.2		
20:00-21:00	72.3	70.6	81.8
21:00-22:00	71.9		
22:00-23:00	69.8		
23:00-00:00	69.8		
00:00-01:00	69.8		
01:00-02:00	69.9		
02:00-03:00	70.2		
03:00-04:00	70.1		
04:00-05:00	70.3	72.6	85.2
05:00-06:00	70.4		
06:00-07:00	72.8		
07:00-08:00	71.2		
08:00-09:00	72.5		
09:00-10:00	72.9		
10:00-11:00	74.2		
11:00-12:00	74.4		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R10)	ACO	6236	00172037
Standard			
IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

#### Remark:

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Standard<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
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on 17 October 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.

Scientist

26 / 09 / 22

Technical Supervisor

26 / 09 / 22





RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	15-16		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
12:00-13:00	72.3	72.9	87.1
13:00-14:00	72.6		
14:00-15:00	73.2		
15:00-16:00	73.8		
16:00-17:00	73.1		
17:00-18:00	72.6		
18:00-19:00	72.9		
19:00-20:00	72.5		
20:00-21:00	70.0	70.0	73.9
21:00-22:00	69.9		
22:00-23:00	69.8		
23:00-00:00	69.9		
00:00-01:00	69.9		
01:00-02:00	70.0		
02:00-03:00	70.1		
03:00-04:00	70.2		
04:00-05:00	70.2	71.6	88.4
05:00-06:00	70.3		
06:00-07:00	70.2		
07:00-08:00	70.9		
08:00-09:00	72.2		
09:00-10:00	73.2		
10:00-11:00	72.8		
11:00-12:00	72.1		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R10)	ACO	6236	00172037
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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on 17 October 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.

(Darn Ruongsi)

Scientist

16 / 09 / 22

Technical Supervisor

26 / 09 / 22





RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	16-17		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
12:00-13:00	72.4	72.6	88.7
13:00-14:00	72.2		
14:00-15:00	72.3		
15:00-16:00	72.8		
16:00-17:00	72.6		
17:00-18:00	73.0		
18:00-19:00	72.6		
19:00-20:00	72.7		
20:00-21:00	72.3	72.0	86.8
21:00-22:00	70.0		
22:00-23:00	71.2		
23:00-00:00	75.4		
00:00-01:00	73.4		
01:00-02:00	70.1		
02:00-03:00	69.8		
03:00-04:00	69.7		
04:00-05:00	69.9	72.7	89.9
05:00-06:00	70.0		
06:00-07:00	70.1		
07:00-08:00	71.6		
08:00-09:00	76.1		
09:00-10:00	74.4		
10:00-11:00	72.6		
11:00-12:00	72.6		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R10)	ACO	6236	00172037
Standard			
IEC 61672			
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 180006, IEC 60942

Reported results refer to measurement time only.

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

Scientist

16 / 09 / 22

Technical Supervisor

26 / 09 / 22



RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area				
	September 2022				
	17-18				
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]		
12:00-13:00	72.7	72.7	86.1		
13:00-14:00	72.8				
14:00-15:00	72.7				
15:00-16:00	72.7				
16:00-17:00	73.1				
17:00-18:00	72.7				
18:00-19:00	72.9				
19:00-20:00	72.1				
20:00-21:00	70.5	70.3	71.9		
21:00-22:00	70.5				
22:00-23:00	70.6				
23:00-00:00	70.5				
00:00-01:00	69.9				
01:00-02:00	70.0				
02:00-03:00	70.0				
03:00-04:00	70.1				
04:00-05:00	70.2	72.2	84.9		
05:00-06:00	71.2				
06:00-07:00	70.5				
07:00-08:00	71.2				
08:00-09:00	72.2				
09:00-10:00	74.9				
10:00-11:00	73.1				
11:00-12:00	72.6				
Standard	Less Than 90.0			Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>	
Sound Level Meter Data					
Calibrate Sheet No.: Noise R_469/22		13 September 2022			
Equipment	Brand	Model	Serial No.		
Sound Level Meter (No.R10)	ACO	6236	00172037		
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October 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.

Scientist

26, 09, 22

Technical Supervisor

26, 09, 22



RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000 Date Reported : 26 September 2022  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	18-19		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
12:00-13:00	71.5	73.0	83.7
13:00-14:00	71.8		
14:00-15:00	72.7		
15:00-16:00	72.6		
16:00-17:00	72.5		
17:00-18:00	74.5		
18:00-19:00	74.6		
19:00-20:00	73.0		
20:00-21:00	72.8	70.8	79.6
21:00-22:00	70.8		
22:00-23:00	70.4		
23:00-00:00	70.3		
00:00-01:00	70.2		
01:00-02:00	70.3		
02:00-03:00	70.5		
03:00-04:00	70.6		
04:00-05:00	70.7	71.9	91.1
05:00-06:00	70.8		
06:00-07:00	70.7		
07:00-08:00	71.4		
08:00-09:00	72.4		
09:00-10:00	72.6		
10:00-11:00	73.2		
11:00-12:00	72.5		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R10)	ACO	6236	00172037
Standard IEC 61672			
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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment  
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on 17 October 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.

Scientist

26 / 09 / 22

Technical Supervisor

26 / 09 / 22





RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	19-20		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
12:00-13:00	72.2	72.5	91.7
13:00-14:00	72.3		
14:00-15:00	72.5		
15:00-16:00	72.9		
16:00-17:00	72.5		
17:00-18:00	72.5		
18:00-19:00	72.6		
19:00-20:00	72.3		
20:00-21:00	70.7	70.5	78.9
21:00-22:00	70.3		
22:00-23:00	70.5		
23:00-00:00	70.5		
00:00-01:00	70.5		
01:00-02:00	70.5		
02:00-03:00	70.4		
03:00-04:00	70.3		
04:00-05:00	70.4	72.0	91.5
05:00-06:00	70.5		
06:00-07:00	70.5		
07:00-08:00	71.0		
08:00-09:00	72.0		
09:00-10:00	72.0		
10:00-11:00	73.2		
11:00-12:00	74.4		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R10)	ACO	6236	00172037
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.1		94.0	

**Remark:**

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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

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

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Scientist

26 / 09 / 22

Technical Supervisor

26 / 09 / 22



RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	South Area		
	September 2022		
	20-21		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
12:00-13:00	72.5	73.6	93.1
13:00-14:00	72.3		
14:00-15:00	72.8		
15:00-16:00	72.7		
16:00-17:00	73.2		
17:00-18:00	72.9		
18:00-19:00	75.4		
19:00-20:00	75.7		
20:00-21:00	75.9	72.4	80.8
21:00-22:00	74.5		
22:00-23:00	72.4		
23:00-00:00	70.5		
00:00-01:00	70.5		
01:00-02:00	70.5		
02:00-03:00	70.6		
03:00-04:00	70.5		
04:00-05:00	70.5	72.3	84.9
05:00-06:00	70.7		
06:00-07:00	70.5		
07:00-08:00	70.3		
08:00-09:00	70.0		
09:00-10:00	75.2		
10:00-11:00	73.2		
11:00-12:00	74.1		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R10)	ACO	6236	00172037
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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Scientist

26, 09, 22

Technical Supervisor

26, 09, 22





RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	14-15		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
12:00-13:00	68.8	74.7	100.2
13:00-14:00	71.3		
14:00-15:00	76.0		
15:00-16:00	77.0		
16:00-17:00	73.9		
17:00-18:00	78.4		
18:00-19:00	73.2		
19:00-20:00	71.3		
20:00-21:00	70.7	66.7	91.8
21:00-22:00	70.7		
22:00-23:00	63.5		
23:00-00:00	63.7		
00:00-01:00	63.5		
01:00-02:00	63.4		
02:00-03:00	63.6		
03:00-04:00	63.4		
04:00-05:00	64.0	68.9	94.8
05:00-06:00	64.0		
06:00-07:00	64.9		
07:00-08:00	63.4		
08:00-09:00	66.8		
09:00-10:00	69.5		
10:00-11:00	73.1		
11:00-12:00	72.4		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R31)	ACO	6236	00192043
Standard			
IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

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

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Scientist

26, 09, 22

Technical Supervisor

26, 09, 22





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R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	15-16		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
12:00-13:00	71.8	74.5	97.9
13:00-14:00	75.8		
14:00-15:00	76.6		
15:00-16:00	74.9		
16:00-17:00	74.1		
17:00-18:00	73.7		
18:00-19:00	73.2		
19:00-20:00	74.2		
20:00-21:00	68.2	66.8	95.3
21:00-22:00	71.7		
22:00-23:00	64.9		
23:00-00:00	64.6		
00:00-01:00	63.5		
01:00-02:00	63.8		
02:00-03:00	64.4		
03:00-04:00	64.8		
04:00-05:00	64.9	69.3	99.2
05:00-06:00	65.2		
06:00-07:00	65.1		
07:00-08:00	64.7		
08:00-09:00	69.0		
09:00-10:00	74.3		
10:00-11:00	71.2		
11:00-12:00	68.6		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R31)	ACO	6236	00192043
Standard IEC 61672			
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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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

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

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Scientist

26, 09, 22

Technical Supervisor

26, 09, 22



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R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	16-17		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
12:00-13:00	70.3	72.3	101.0
13:00-14:00	68.8		
14:00-15:00	68.0		
15:00-16:00	71.9		
16:00-17:00	70.3		
17:00-18:00	76.8		
18:00-19:00	72.4		
19:00-20:00	73.1		
20:00-21:00	72.2	66.5	91.0
21:00-22:00	68.6		
22:00-23:00	64.3		
23:00-00:00	64.0		
00:00-01:00	64.3		
01:00-02:00	61.2		
02:00-03:00	61.0		
03:00-04:00	61.1		
04:00-05:00	61.3	67.1	94.7
05:00-06:00	61.5		
06:00-07:00	61.7		
07:00-08:00	61.8		
08:00-09:00	66.6		
09:00-10:00	70.5		
10:00-11:00	71.6		
11:00-12:00	66.8		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R31)	ACO	6236	00192043
Standard			
IEC 61672			
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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Scientist

26, 09, 22

Technical Supervisor

26, 09, 22





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R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	17-18		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
12:00-13:00	72.3	76.2	102.4
13:00-14:00	73.7		
14:00-15:00	74.0		
15:00-16:00	79.1		
16:00-17:00	74.7		
17:00-18:00	76.2		
18:00-19:00	79.3		
19:00-20:00	74.5		
20:00-21:00	69.5	66.3	90.4
21:00-22:00	65.5		
22:00-23:00	65.8		
23:00-00:00	65.8		
00:00-01:00	65.7		
01:00-02:00	65.7		
02:00-03:00	65.6		
03:00-04:00	65.5		
04:00-05:00	65.6	70.0	99.5
05:00-06:00	65.8		
06:00-07:00	65.5		
07:00-08:00	65.1		
08:00-09:00	66.6		
09:00-10:00	74.6		
10:00-11:00	72.3		
11:00-12:00	71.7		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R31)	ACO	6236	00192043
Standard			
IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

**Remark:**

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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 180006, IEC 60942

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Scientist

26, 09, 22

Technical Supervisor

26, 09, 22





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

5/7

RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	18-19		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
12:00-13:00	72.0	74.3	98.1
13:00-14:00	76.1		
14:00-15:00	76.2		
15:00-16:00	74.7		
16:00-17:00	73.8		
17:00-18:00	73.2		
18:00-19:00	72.8		
19:00-20:00	73.6		
20:00-21:00	68.0	66.4	94.8
21:00-22:00	70.8		
22:00-23:00	64.8		
23:00-00:00	64.5		
00:00-01:00	63.5		
01:00-02:00	63.9		
02:00-03:00	64.5		
03:00-04:00	64.9		
04:00-05:00	65.0	70.5	97.3
05:00-06:00	65.2		
06:00-07:00	65.2		
07:00-08:00	64.7		
08:00-09:00	68.8		
09:00-10:00	78.2		
10:00-11:00	73.7		
11:00-12:00	66.6		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R31)	ACO	6236	00192043
Standard			
IEC 61672			
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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26, 09, 22

Technical Supervisor

26, 09, 22



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R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	19-20		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
12:00-13:00	72.1	75.6	101.6
13:00-14:00	73.5		
14:00-15:00	73.5		
15:00-16:00	78.6		
16:00-17:00	74.0		
17:00-18:00	75.7		
18:00-19:00	78.6		
19:00-20:00	73.8		
20:00-21:00	69.4	66.3	90.1
21:00-22:00	65.5		
22:00-23:00	65.8		
23:00-00:00	65.7		
00:00-01:00	65.7		
01:00-02:00	65.6		
02:00-03:00	65.5		
03:00-04:00	65.4		
04:00-05:00	65.6	72.8	102.7
05:00-06:00	65.8		
06:00-07:00	65.4		
07:00-08:00	65.1		
08:00-09:00	66.6		
09:00-10:00	74.2		
10:00-11:00	78.2		
11:00-12:00	76.3		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R31)	ACO	6236	00192043
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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on 17 October 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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Scientist

26/09/22

Technical Supervisor

26/09/22



RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	West Area		
	September 2022		
	20-21		
	L <sub>eq</sub> 1 hr [dB(A)]	L <sub>eq</sub> 8 hr [dB(A)]	L <sub>max</sub> [dB(A)]
12:00-13:00	78.1	75.7	101.5
13:00-14:00	71.8		
14:00-15:00	79.4		
15:00-16:00	75.2		
16:00-17:00	74.3		
17:00-18:00	72.4		
18:00-19:00	74.2		
19:00-20:00	74.5		
20:00-21:00	72.8	67.4	91.0
21:00-22:00	66.8		
22:00-23:00	65.8		
23:00-00:00	65.2		
00:00-01:00	65.1		
01:00-02:00	65.0		
02:00-03:00	65.2		
03:00-04:00	65.3		
04:00-05:00	65.1	74.0	101.7
05:00-06:00	65.4		
06:00-07:00	65.3		
07:00-08:00	64.8		
08:00-09:00	64.5		
09:00-10:00	77.4		
10:00-11:00	77.5		
11:00-12:00	78.7		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		18 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.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<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October 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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Scientist

26 / 09 / 22

Technical Supervisor

26 / 09 / 22





RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	14-15		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
12:00-13:00	74.0	73.9	98.3
13:00-14:00	74.4		
14:00-15:00	74.9		
15:00-16:00	74.7		
16:00-17:00	73.3		
17:00-18:00	73.5		
18:00-19:00	72.9		
19:00-20:00	73.0		
20:00-21:00	73.3	69.7	95.0
21:00-22:00	69.6		
22:00-23:00	68.6		
23:00-00:00	68.6		
00:00-01:00	68.5		
01:00-02:00	68.6		
02:00-03:00	68.6		
03:00-04:00	68.5		
04:00-05:00	68.9	72.7	97.7
05:00-06:00	68.9		
06:00-07:00	69.1		
07:00-08:00	68.6		
08:00-09:00	70.9		
09:00-10:00	75.0		
10:00-11:00	76.0		
11:00-12:00	75.1		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R22)	ACO	6236	00182010
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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on 17 October 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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Scientist

16, 09, 22



Technical Supervisor

26, 09, 22



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R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	15-16		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
12:00-13:00	76.8	75.8	101.7
13:00-14:00	77.8		
14:00-15:00	72.9		
15:00-16:00	74.6		
16:00-17:00	78.6		
17:00-18:00	76.8		
18:00-19:00	71.4		
19:00-20:00	70.7		
20:00-21:00	68.8	68.4	90.6
21:00-22:00	68.3		
22:00-23:00	68.2		
23:00-00:00	68.4		
00:00-01:00	68.2		
01:00-02:00	68.4		
02:00-03:00	68.5		
03:00-04:00	68.5		
04:00-05:00	68.5	73.1	101.2
05:00-06:00	68.6		
06:00-07:00	68.6		
07:00-08:00	68.4		
08:00-09:00	69.4		
09:00-10:00	74.3		
10:00-11:00	79.6		
11:00-12:00	69.6		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R22)	ACO	6236	00182010
Standard			
IEC 61672			
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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Standard<sup>[2]</sup> = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment  
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on 17 October 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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Scientist

26, 09, 22

(Kitti Sittonglor)

Technical Supervisor

26, 09, 22





RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Mueang, Rayong 21000 Date Reported : 26 September 2022  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	16-17		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
12:00-13:00	70.0	74.3	103.0
13:00-14:00	70.6		
14:00-15:00	71.9		
15:00-16:00	77.2		
16:00-17:00	74.7		
17:00-18:00	77.5		
18:00-19:00	70.7		
19:00-20:00	74.4		
20:00-21:00	72.2	70.2	92.4
21:00-22:00	73.2		
22:00-23:00	69.3		
23:00-00:00	69.4		
00:00-01:00	69.6		
01:00-02:00	68.4		
02:00-03:00	68.2		
03:00-04:00	68.3		
04:00-05:00	68.3	71.2	97.0
05:00-06:00	68.4		
06:00-07:00	68.4		
07:00-08:00	68.5		
08:00-09:00	69.8		
09:00-10:00	71.7		
10:00-11:00	74.1		
11:00-12:00	74.3		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R22)	ACO	6236	00182010
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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

Standard<sup>[2]</sup> = 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) Published in the Government Gazette on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

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

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Scientist

26, 09, 22



Technical Supervisor

26, 09, 22





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R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	17-18		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
12:00-13:00	72.4	74.2	100.8
13:00-14:00	75.4		
14:00-15:00	75.9		
15:00-16:00	73.6		
16:00-17:00	73.5		
17:00-18:00	74.4		
18:00-19:00	73.5		
19:00-20:00	73.3		
20:00-21:00	68.6	68.6	72.2
21:00-22:00	68.6		
22:00-23:00	68.6		
23:00-00:00	68.5		
00:00-01:00	68.6		
01:00-02:00	68.5		
02:00-03:00	68.6		
03:00-04:00	68.6		
04:00-05:00	68.5	71.9	100.0
05:00-06:00	68.6		
06:00-07:00	68.5		
07:00-08:00	68.3		
08:00-09:00	68.4		
09:00-10:00	74.3		
10:00-11:00	75.6		
11:00-12:00	74.2		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R22)	ACO	6236	00182010
Standard IEC 61672			
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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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

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

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26/09/22

Technical Supervisor

26/09/22



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R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	18-19		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
12:00-13:00	77.4	75.5	99.3
13:00-14:00	77.1		
14:00-15:00	77.3		
15:00-16:00	75.4		
16:00-17:00	71.9		
17:00-18:00	73.5		
18:00-19:00	75.2		
19:00-20:00	73.0		
20:00-21:00	68.7	68.4	78.3
21:00-22:00	68.5		
22:00-23:00	68.3		
23:00-00:00	68.2		
00:00-01:00	68.2		
01:00-02:00	68.3		
02:00-03:00	68.2		
03:00-04:00	68.5		
04:00-05:00	68.6	71.3	97.5
05:00-06:00	68.7		
06:00-07:00	68.7		
07:00-08:00	68.3		
08:00-09:00	71.3		
09:00-10:00	73.8		
10:00-11:00	74.9		
11:00-12:00	70.3		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R22)	ACO	6236	00182010
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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Standard<sup>[1]</sup> = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,  
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Standard<sup>[2]</sup> = 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) Published in the Government Gazette  
on 17 October 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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Scientist  
16, 09, 22



Technical Supervisor  
16, 09, 22





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R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	19-20		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
12:00-13:00	72.5	72.5	96.9
13:00-14:00	72.7		
14:00-15:00	72.0		
15:00-16:00	73.0		
16:00-17:00	73.3		
17:00-18:00	73.1		
18:00-19:00	72.4		
19:00-20:00	70.5		
20:00-21:00	70.0	68.8	88.1
21:00-22:00	68.6		
22:00-23:00	68.6		
23:00-00:00	68.7		
00:00-01:00	68.7		
01:00-02:00	68.7		
02:00-03:00	68.5		
03:00-04:00	68.5		
04:00-05:00	68.6	70.5	92.9
05:00-06:00	68.7		
06:00-07:00	68.5		
07:00-08:00	68.2		
08:00-09:00	68.8		
09:00-10:00	71.6		
10:00-11:00	73.3		
11:00-12:00	72.4		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_469/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R22)	ACO	6236	00182010
Standard			
IEC 61672			
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) Published in the Government Gazette  
on 17 October 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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26, 09, 22

Technical Supervisor

26, 09, 22





RY0073/09/65

R-Pro-1091-2/2021

### Noise Level Report

Project : HMU-2 Sampling Date : 14-21 September 2022  
Project Location : 299 Moo 5, Sukhumvit Road, Choeng Noen, Date Reported : 26 September 2022  
Mueang, Rayong 21000  
Client Name/Address : Wison Engineering Ltd.  
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	North Area		
	September 2022		
	20-21		
	$L_{eq}$ 1 hr [dB(A)]	$L_{eq}$ 8 hr [dB(A)]	$L_{max}$ [dB(A)]
12:00-13:00	73.6	75.6	104.0
13:00-14:00	71.1		
14:00-15:00	74.4		
15:00-16:00	76.4		
16:00-17:00	76.7		
17:00-18:00	76.8		
18:00-19:00	75.6		
19:00-20:00	77.4		
20:00-21:00	74.5	70.0	87.7
21:00-22:00	69.0		
22:00-23:00	68.9		
23:00-00:00	68.6		
00:00-01:00	68.5		
01:00-02:00	68.5		
02:00-03:00	68.6		
03:00-04:00	68.7		
04:00-05:00	68.7	72.8	97.2
05:00-06:00	68.9		
06:00-07:00	68.7		
07:00-08:00	68.3		
08:00-09:00	68.1		
09:00-10:00	76.0		
10:00-11:00	77.2		
11:00-12:00	74.0		
Standard		Less Than 90.0	Less Than 140.0 <sup>[1]</sup> , 115.0 <sup>[2]</sup>
Sound Level Meter Data			
Calibrate Sheet No.: Noise R_489/22		13 September 2022	
Equipment	Brand	Model	Serial No.
Sound Level Meter (No.R22)	ACO	6236	00182010
Actual Reading [dB]			
Before Adjustment		After Adjustment	
94.0		94.0	

#### Remark:

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Standard<sup>[2]</sup> = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment  
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on 17 October B.E. 2559 (2016)

Sampling Method = Sound Level Meter

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

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Technical Supervisor

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