

Request No. LA62-R1022

Report No. R6210-2047

**TEST REPORT**

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.  
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150  
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.  
SAMPLE POINT : Control Room  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  8 hr. &  $L_{max}$  SAMPLE NO. : 19347  
DETERMINATION METHOD : In-house Method : A-DM-001 MEASURED BY : ETC  
Based on ISO 11202:2010 MEASURING DATE : 08/10/2019  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 16/10/2019  
S/N 01147300 : Type 2 REPORTED DATE : 18/10/2019

MEASURING TIME	RESULT		UNIT
	$L_{eq}$ 1 hr.	$L_{max}$	
06:30-07:30	60.5	71.1	dB(A)
07:30-08:30	63.0	80.1	dB(A)
08:30-09:30	63.9	77.4	dB(A)
09:30-10:30	61.3	74.2	dB(A)
10:30-11:30	62.9	75.3	dB(A)
11:30-12:30	58.9	67.3	dB(A)
12:30-13:30	62.2	71.6	dB(A)
13:30-14:30	63.0	78.3	dB(A)
$L_{eq}$ 8 hr. (TWA)	62 <sup>#</sup>	-	dB(A)
Standard <sup>1</sup>	90	140	dB(A)

**REMARK :** <sup>1</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>#</sup> Based on Criteria 90 dB(A); 5 dB Exchange Rate

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsopon is Section Head / Mrs. Wenpen Lhaochindawat is Technical Management)

(Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

18/10/2019

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA62-R1022

Report No. R6210-2050

**TEST REPORT**

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.  
ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150  
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.  
SAMPLE POINT : Control Room  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  12 hr. &  $L_{max}$  SAMPLE NO. : 19350  
DETERMINATION METHOD : In-house Method : A-DM-001 MEASURED BY : ETC  
Based on ISO 11202:2010 MEASURING DATE : 08/10/2019  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 16/10/2019  
S/N 01147300 : Type 2 REPORTED DATE : 18/10/2019

MEASURING TIME	RESULT		UNIT
	$L_{eq}$ 1 hr.	$L_{max}$	
06:30-07:30	60.5	71.1	dB(A)
07:30-08:30	63.0	80.1	dB(A)
08:30-09:30	63.9	77.4	dB(A)
09:30-10:30	61.3	74.2	dB(A)
10:30-11:30	62.9	75.3	dB(A)
11:30-12:30	58.9	67.3	dB(A)
12:30-13:30	62.2	71.6	dB(A)
13:30-14:30	63.0	78.3	dB(A)
14:30-15:30	63.9	77.7	dB(A)
15:30-16:30	61.9	71.3	dB(A)
16:30-17:30	62.6	78.6	dB(A)
17:30-18:30	61.1	73.1	dB(A)
$L_{eq}$ 12 hr. (TWA)	62 <sup>#</sup>	—	dB(A)
Standard <sup>1/</sup>	87	140	dB(A)

**REMARK :** <sup>1/</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>#</sup> Based on Criteria 90 dB(A); 5 dB Exchange Rate

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsophon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคองซัลติง 1992 จำกัด

Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

18/10/2019

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA62-R1022

Report No. R6210-2048

**TEST REPORT**

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.  
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150  
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.  
SAMPLE POINT : Compressor Room  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  8 hr. &  $L_{max}$  SAMPLE NO. : 19348  
DETERMINATION METHOD : In-house Method : A-DM-001 MEASURED BY : ETC  
Based on ISO 11202:2010 MEASURING DATE : 09/10/2019  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 16/10/2019  
S/N 01147300 : Type 2 REPORTED DATE : 18/10/2019

MEASURING TIME	RESULT		UNIT
	$L_{eq}$ 1 hr.	$L_{max}$	
06:50-07:50	73.2	77.4	dB(A)
07:50-08:50	73.1	77.3	dB(A)
08:50-09:50	73.3	79.8	dB(A)
09:50-10:50	73.9	80.9	dB(A)
10:50-11:50	72.9	82.6	dB(A)
11:50-12:50	72.4	80.0	dB(A)
12:50-13:50	73.6	87.5	dB(A)
13:50-14:50	74.6	90.9	dB(A)
$L_{eq}$ 8 hr. (TWA)	73 <sup>#</sup>	-	dB(A)
Standard <sup>1</sup>	90	140	dB(A)

**REMARK :** <sup>1</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>#</sup> Based on Criteria 90 dB(A); 5 dB Exchange Rate

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsopon is Section Head / Mrs. Wenpen Lhaochindawat is Technical Management)

(Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

18/10/2019

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA62-R1022

Report No. R6210-2051

**TEST REPORT**

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.  
 ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150  
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.  
 SAMPLE POINT : Compressor Room  
 PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  12 hr. &  $L_{max}$  SAMPLE NO. : 19351  
 DETERMINATION METHOD : In-house Method : A-DM-001 MEASURED BY : ETC  
 Based on ISO 11202:2010 MEASURING DATE : 09/10/2019  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 16/10/2019  
 S/N 01147300 : Type 2 REPORTED DATE : 18/10/2019

MEASURING TIME	RESULT		UNIT
	$L_{eq}$ 1 hr.	$L_{max}$	
06:50-07:50	73.2	77.4	dB(A)
07:50-08:50	73.1	77.3	dB(A)
08:50-09:50	73.3	79.8	dB(A)
09:50-10:50	73.9	80.9	dB(A)
10:50-11:50	72.9	82.6	dB(A)
11:50-12:50	72.4	80.0	dB(A)
12:50-13:50	73.6	87.5	dB(A)
13:50-14:50	74.6	90.9	dB(A)
14:50-15:50	74.5	84.6	dB(A)
15:50-16:50	69.2	82.3	dB(A)
16:50-17:50	66.9	77.2	dB(A)
17:50-18:50	66.4	71.2	dB(A)
$L_{eq}$ 12 hr. (TWA)	72 <sup>#</sup>	-	dB(A)
Standard <sup>1)</sup>	87	140	dB(A)

**REMARK :** <sup>1)</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>#</sup> Based on Criteria 90 dB(A); 5 dB Exchange Rate

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsopon is Section Head / Mrs. Wenpen Lhaochindawat is Technical Management)

(Measurement By Mrs. Wenpen Lhaochindawat)



Approved By 

(MRS. WENPEN LHAOCHINDAWAT)

18/10/2019

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA62-R1022

Report No. R6210-2049

**TEST REPORT**

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.  
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150  
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.  
SAMPLE POINT : Cooling Tower  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  8 hr. &  $L_{max}$  SAMPLE NO. : 19349  
DETERMINATION METHOD : In-house Method : A-DM-001 MEASURED BY : ETC  
Based on ISO 11202:2010 MEASURING DATE : 10/10/2019  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 16/10/2019  
S/N 01147300 : Type 2 REPORTED DATE : 18/10/2019

MEASURING TIME	RESULT		UNIT
	$L_{eq}$ 1 hr.	$L_{max}$	
07:00-08:00	75.9	78.6	dB(A)
08:00-09:00	75.6	78.1	dB(A)
09:00-10:00	75.8	78.7	dB(A)
10:00-11:00	76.0	80.2	dB(A)
11:00-12:00	76.3	78.4	dB(A)
12:00-13:00	76.6	78.7	dB(A)
13:00-14:00	76.5	79.0	dB(A)
14:00-15:00	76.5	78.4	dB(A)
$L_{eq}$ 8 hr. (TWA)	76 <sup>#</sup>	-	dB(A)
Standard <sup>1</sup>	90	140	dB(A)

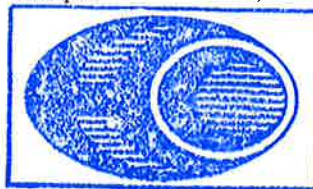
**REMARK :** <sup>1</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>#</sup> Based on Criteria 90 dB(A); 5 dB Exchange Rate

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsopon is Section Head / Mrs. Wenpen Lhaochindawat is Technical Management)

(Measurement By Mrs. Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

18/10/2019

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY



Request No. LA62-R1022

Report No. R6210-2052

**TEST REPORT**

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.  
ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150  
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.  
SAMPLE POINT : Cooling Tower  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  12 hr. &  $L_{max}$  SAMPLE NO. : 19352  
DETERMINATION METHOD : In-house Method : A-DM-001 MEASURED BY : ETC  
Based on ISO 11202:2010 MEASURING DATE : 10/10/2019  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 16/10/2019  
S/N 01147300 : Type 2 REPORTED DATE : 18/10/2019

MEASURING TIME	RESULT		UNIT
	$L_{eq}$ 1 hr.	$L_{max}$	
07:00-08:00	75.9	78.6	dB(A)
08:00-09:00	75.6	78.1	dB(A)
09:00-10:00	75.8	78.7	dB(A)
10:00-11:00	76.0	80.2	dB(A)
11:00-12:00	76.3	78.4	dB(A)
12:00-13:00	76.6	78.7	dB(A)
13:00-14:00	76.5	79.0	dB(A)
14:00-15:00	76.5	78.4	dB(A)
15:00-16:00	76.5	78.5	dB(A)
16:00-17:00	75.9	79.0	dB(A)
17:00-18:00	76.0	78.3	dB(A)
18:00-19:00	75.8	77.4	dB(A)
$L_{eq}$ 12 hr. (TWA)	76 <sup>#</sup>	—	dB(A)
Standard <sup>1)</sup>	87	140	dB(A)

**REMARK :** <sup>1)</sup> Notification of The Ministry of Industry B.E. 2546 (2003)

<sup>#</sup> Based on Criteria 90 dB(A); 5 dB Exchange Rate

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Ms. Thanatporn Klinsoon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mrs. Wanpen Lhaochindawat)



Approved By ..... *[Signature]* .....

(MRS. WANPEN LHAOCHINDAWAT)

18/10/2019

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA62-R1022

Report No. R6210-2053

**TEST REPORT**

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.  
ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150  
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.  
SAMPLE POINT : Control Room SAMPLE NO. : 19353  
PARAMETER\* : Noise Octave Band MEASURING TIME : 06:30-18:30  
MEASURED BY : ETC MEASURING DATE : 08/10/2019  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 16/10/2019  
: S/N 00157456 REPORTED DATE : 18/10/2019

TIME FREQUENCY	RESULT [dB(A)]										
	31.5HZ	63HZ	125HZ	250HZ	500HZ	1kHz	2kHz	4kHz	8kHz	16kHz	AP
06:30-07:30	23.4	31.5	46.2	51.2	55.8	56.1	53.9	47.0	36.1	23.2	61.0
07:30-08:30	23.3	31.4	46.1	52.2	58.9	58.6	56.3	48.5	36.3	22.7	63.4
08:30-09:30	23.4	31.5	46.2	52.3	59.2	60.2	57.4	49.2	38.0	24.5	64.4
09:30-10:30	23.4	31.5	45.8	51.5	56.2	56.9	55.7	46.9	34.2	20.5	61.8
10:30-11:30	23.7	31.5	46.1	52.3	58.5	58.7	56.1	48.6	35.3	22.1	63.3
11:30-12:30	23.5	31.4	45.5	50.2	53.6	54.5	52.4	45.2	32.8	18.7	59.4
12:30-13:30	23.7	31.6	46.3	52.2	58.3	57.8	55.4	47.3	35.4	22.2	62.8
13:30-14:30	23.7	31.6	46.4	52.3	58.2	59.4	55.9	47.9	35.5	22.2	63.4
14:30-15:30	23.7	31.6	46.9	52.3	59.6	60.4	56.8	49.0	36.2	22.0	64.4
15:30-16:30	23.7	31.6	46.1	51.6	57.4	58.0	55.2	47.5	35.7	22.9	62.5
16:30-17:30	23.6	31.5	46.2	51.6	58.2	59.5	56.0	48.4	36.2	23.1	63.4
17:30-18:30	23.6	31.5	45.8	50.8	56.3	56.7	55.0	47.0	34.9	20.6	61.5
<b>TWA<sup>#</sup></b>	23.6	31.5	46.1	51.7	57.7	58.3	55.6	47.8	35.6	22.2	62.7

**REMARK :** <sup>#</sup> Based on Criteria 90 dB(A); 5 dB Exchange Rate

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Measurement By Mrs. Wanpen Lhaochindawat)

ระดับเสียงตลอดช่วงความถี่ (AP)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By..........

(MRS. WANPEN LHAOCHINDAWAT)

18/10/2019

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA62-R1022

Report No. R6210-2054

**TEST REPORT**

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.  
 ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150  
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.  
 SAMPLE POINT : Air Compressor SAMPLE NO. : 19354  
 PARAMETER\* : Noise Octave Band MEASURING TIME : 06:50-18:50  
 MEASURED BY : ETC MEASURING DATE : 09/10/2019  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 16/10/2019  
 : S/N 00157456 REPORTED DATE : 18/10/2019

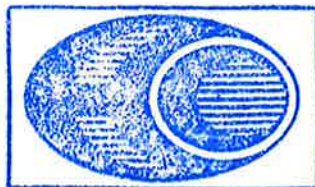
TIME	RESULT [dB(A)]										
	FREQUENCY	31.5HZ	63HZ	125HZ	250HZ	500HZ	1kHz	2kHz	4kHz	8kHz	16kHz
06:50-07:50	33.5	49.1	53.0	64.6	63.5	63.8	66.4	69.7	66.9	54.4	74.2
07:50-08:50	33.2	49.0	51.4	64.0	62.9	63.1	66.1	69.9	67.0	54.3	74.1
08:50-09:60	33.4	48.9	51.3	63.4	62.7	63.2	65.9	69.9	67.2	54.5	74.1
09:60-10:50	33.5	49.0	54.1	64.0	64.2	65.0	66.4	69.7	67.2	54.6	74.4
10:50-11:50	32.8	48.6	52.2	64.6	62.7	63.4	65.8	68.6	65.8	50.6	73.4
11:50-12:50	32.4	48.4	50.6	64.2	62.0	62.4	65.0	68.4	65.6	49.1	73.0
12:50-13:50	32.6	48.3	54.4	64.2	64.1	64.4	66.8	69.8	66.6	51.0	74.3
13:50-14:50	33.1	47.6	55.6	62.9	65.5	66.0	68.1	71.1	67.8	52.4	75.5
14:50-15:50	35.0	47.6	53.8	61.9	65.1	66.8	67.8	70.6	67.6	52.8	75.2
15:50-16:50	33.6	47.9	52.0	59.0	59.7	61.8	61.9	64.7	62.0	49.2	69.8
16:50-17:50	32.3	48.1	50.5	60.3	57.1	57.5	58.0	62.2	60.2	48.4	67.6
17:50-18:50	32.2	47.8	49.4	61.1	56.7	56.9	57.5	62.0	59.9	48.4	67.5
<b>TWA<sup>#</sup></b>	33.2	48.4	52.6	63.1	62.7	63.4	65.3	68.6	65.8	52.0	73.2

**REMARK :** # Based on Criteria 90 dB(A); 5 dB Exchange Rate

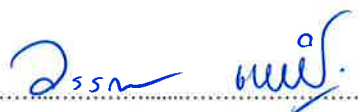
\* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Measurement By Mrs.Wanpen Lhaochindawat)

ระดับเสียงตลอดช่วงความถี่ (AP)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 

(MRS. WANPEN LHAOCHINDAWAT)

18/10/2019

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
 WITHOUT THE WRITTEN APPROVAL LABORATORY



Request No. LA62-R1022

Report No. R6210-2055

## TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.  
 ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150  
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.  
 SAMPLE POINT : Cooling Tower SAMPLE NO. : 19355  
 PARAMETER\* : Noise Octave Band MEASURING TIME : 07:00-19:00  
 MEASURED BY : ETC MEASURING DATE : 10/10/2019  
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 16/10/2019  
 : S/N 00157456 REPORTED DATE : 18/10/2019

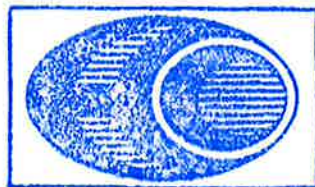
TIME FREQUENCY	RESULT [dB(A)]										
	31.5HZ	63HZ	125HZ	250HZ	500HZ	1kHz	2kHz	4kHz	8kHz	16kHz	AP
07:00-08:00	43.8	59.5	65.3	65.5	67.0	72.6	68.7	67.0	63.1	55.1	76.6
08:00-09:00	43.6	59.3	64.8	65.1	66.6	72.1	68.5	67.3	63.2	55.0	76.3
09:00-10:00	43.9	58.8	64.5	64.9	66.5	72.3	68.4	67.3	63.3	54.9	76.3
10:00-12:00	44.3	59.4	65.2	65.6	67.1	72.5	68.9	67.4	63.0	54.4	76.6
12:00-13:00	43.8	59.1	64.6	65.3	66.8	72.2	68.7	67.8	62.8	54.2	76.4
13:00-14:00	43.3	58.5	63.8	64.6	66.3	72.8	68.3	67.8	63.1	54.3	76.4
14:00-15:00	43.2	58.3	63.4	64.3	66.4	73.2	68.1	67.7	63.1	54.2	76.5
15:00-16:00	43.1	58.4	63.4	64.3	66.5	72.7	68.0	67.5	63.2	54.2	76.3
16:00-17:00	43.6	58.6	64.2	65.0	66.7	72.0	68.2	67.4	63.3	54.6	76.2
17:00-18:00	43.9	59.0	64.9	65.5	66.9	72.4	68.7	67.1	63.4	55.1	76.5
18:00-19:00	44.1	59.7	65.7	66.2	67.6	72.8	69.0	66.9	63.0	55.1	76.8
19:00-20:00	44.2	59.8	65.8	66.3	67.6	73.1	69.0	66.7	62.9	55.0	76.5
<b>TWA<sup>#</sup></b>	43.7	59.0	64.7	65.2	66.8	72.6	68.5	67.3	63.1	54.7	76.5

REMARK : <sup>#</sup> Based on Criteria 90 dB(A); 5 dB Exchange Rate

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Measurement By Mrs. Wanpen Lhaochindawat)

ระดับเสียงตลอดช่วงความถี่ (AP)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

18/10/2019

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA62-R1022

Report No. R6210-2041

**TEST REPORT**

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.  
 ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150  
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.  
 SAMPLE POINT : MMA\_AMS Operator (Mr. Sa-Ngad Kulpaisa)  
 MEASURING DATE : 11/10/2019 SAMPLE NO. : 19341  
 RECEIVED DATE : 16/10/2019 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter ; S/N CA8889 REPORTED DATE : 16/10/2019

PARAMETER*	RESULT	STD	UNIT
Time weighted average level (8-hr TWA) <sup>#</sup>	78	85 <sup>/1</sup>	dB(A)
% Dose	20.00	100 <sup>/2</sup>	%

**REMARK :** <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>#</sup> Based on Criteria 85 dB(A) ; 3 dB Exchange Rate  
 \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Measurement By Mrs.Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....  
 (MRS. WANPEN LHAOCHINDAWAT)

16/10/2019

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA62-R1022

Report No. R6210-2042

**TEST REPORT**

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.  
 ADDRESS : 20/9 Pakomsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150  
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.  
 SAMPLE POINT : AN\_PGU+AOG Operator (Mr. Sophon Potorn)  
 MEASURING DATE : 11/10/2019 SAMPLE NO. : 19342  
 RECEIVED DATE : 16/10/2019 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter ; S/N CA8887 REPORTED DATE : 16/10/2019

PARAMETER*	RESULT	STD	UNIT
Time weighted average level (8-hr TWA) <sup>#</sup>	82	85 <sup>/1</sup>	dB(A)
% Dose	50.00	100 <sup>/2</sup>	%

**REMARK :**

- <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- <sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- <sup>#</sup> Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Measurement By Mrs.Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

16/10/2019

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA62-R1105

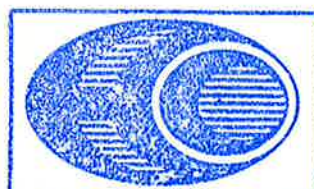
Report No. R6211-0115

## TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.  
 ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150  
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.  
 SAMPLE POINT : AN\_Cooling Tower + Metering & Flare + Refrigeration Operator (Mr. Saroj Doktunyong)  
 MEASURING DATE : 31/10/2019 SAMPLE NO. : 20122  
 RECEIVED DATE : 04/11/2019 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter ; S/N CB0644 REPORTED DATE : 05/11/2019

PARAMETER*	RESULT	STD	UNIT
Time weighted average level (8-hr TWA) <sup>#</sup>	82	85 <sup>/1</sup>	dB(A)
% Dose	57.00	100 <sup>/2</sup>	%

**REMARK :** <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>#</sup> Based on Criteria 85 dB(A) ; 3 dB Exchange Rate  
 \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Measurement By Mrs.Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

05/11/2019

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA62-R1022

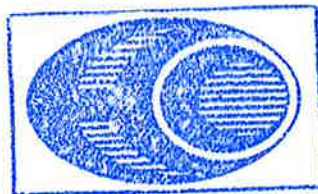
Report No. R6210-2044

**TEST REPORT**

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.  
 ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150  
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.  
 SAMPLE POINT : AN\_Recovery Operetor (Mr. Nipot Seepoon)  
 MEASURING DATE : 11/10/2019 SAMPLE NO. : 19344  
 RECEIVED DATE : 16/10/2019 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter ; S/N CA8879 REPORTED DATE : 16/10/2019

PARAMETER*	RESULT	STD	UNIT
Time weighted average level (8-hr TWA) <sup>#</sup>	83	85 <sup>/1</sup>	dB(A)
% Dose	75.00	100 <sup>/2</sup>	%

**REMARK :** <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>#</sup> Based on Criteria 85 dB(A) ; 3 dB Exchange Rate  
 \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Measurement By Mrs.Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

16/10/2019

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
 WITHOUT THE WRITTEN APPROVAL LABORATORY



Request No. LA62-R1044

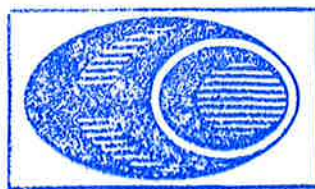
Report No. R6210-2563

**TEST REPORT**

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.  
 ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150  
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.  
 SAMPLE POINT : AN\_Reaction Operator (Mr. Charoensak Sroichit)  
 MEASURING DATE : 25/10/2019 SAMPLE NO. : 19883  
 RECEIVED DATE : 28/10/2019 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter ; S/N CA8879 REPORTED DATE : 28/10/2019

PARAMETER*	RESULT	STD	UNIT
Time weighted average level (8-hr TWA) <sup>#</sup>	80	85 <sup>/1</sup>	dB(A)
% Dose	37.00	100 <sup>/2</sup>	%

**REMARK :** <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>#</sup> Based on Criteria 85 dB(A) ; 3 dB Exchange Rate  
 \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Measurement By Mrs.Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

28/10/2019

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA62-R1022

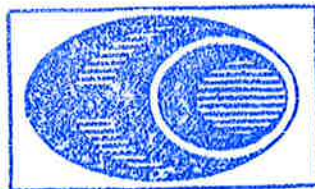
Report No. R6210-2046

## TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.  
 ADDRESS : 20/9 Pakornsongkrohrad Rd., T. Maptaphut A. Muangrayong, Rayong 21150  
 SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.  
 SAMPLE POINT : AN\_WWI Operator (Mr. Wichain Udom)  
 MEASURING DATE : 11/10/2019 SAMPLE NO. : 19346  
 RECEIVED DATE : 16/10/2019 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter ; S/N CB0641 REPORTED DATE : 16/10/2019

PARAMETER*	RESULT	STD	UNIT
Time weighted average level (8-hr TWA) <sup>#</sup>	79	85 <sup>/1</sup>	dB(A)
% Dose	30.00	100 <sup>/2</sup>	%

**REMARK :** <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>#</sup> Based on Criteria 85 dB(A) ; 3 dB Exchange Rate  
 \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Measurement By Mrs.Wanpen Lhaochindawat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

16/10/2019

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
 WITHOUT THE WRITTEN APPROVAL LABORATORY