

ภาคผนวก ค

รายงานผลการตรวจวัดคุณภาพสิ่งแวดล้อม

Request No. ATR6604035

Report No. 6604-0903 - 6604-0909

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE NAME : วัดมาบชลุค
 RECEIVED DATE : 24/04/2023 SAMPLE NO. : A66040903 - A66040909
 TESTED DATE : 24/04/2023-25/04/2023 REPORTED DATE : 25/04/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ¹	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	05-06/04/2023	0.084	0.33	mg/m ³
		06-07/04/2023	0.088	0.33	mg/m ³
		07-08/04/2023	0.058	0.33	mg/m ³
		08-09/04/2023	0.064	0.33	mg/m ³
		09-10/04/2023	0.077	0.33	mg/m ³
		10-11/04/2023	0.111	0.33	mg/m ³
		11-12/04/2023	0.086	0.33	mg/m ³

REMARK:

¹ Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

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

(Sampling By Mr. Tummarut Photankham)

GPS = Sampling at UTM 47P 736823E 1407369N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoyon)

25/04/2023

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6604035

Report No. 6604-0896 - 6604-0902

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE NAME : วัดมาบขลุค
 RECEIVED DATE : 24/04/2023 SAMPLE NO. : A66040896 - A66040902
 TESTED DATE : 24/04/2023-25/04/2023 REPORTED DATE : 25/04/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ¹	UNIT
Particulate matter less than or Equal					
10 micrometers (PM 10)	Gravimetric Method	05-06/04/2023	0.033	0.12	mg/m ³
		06-07/04/2023	0.033	0.12	mg/m ³
		07-08/04/2023	0.021	0.12	mg/m ³
		08-09/04/2023	0.030	0.12	mg/m ³
		09-10/04/2023	0.025	0.12	mg/m ³
		10-11/04/2023	0.031	0.12	mg/m ³
		11-12/04/2023	0.039	0.12	mg/m ³

REMARK:

¹ Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

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

(Sampling By Mr. Tummarut Photankham)

GPS = Sampling at UTM 47P 736823E 1407369N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoyon)

25/04/2023

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Request No. ATR6604035

Report No. 6604-0910 - 6604-0916

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE NAME : วัดมาบขลุค
 RECEIVED DATE : 24/04/2023 SAMPLE NO. : A66040910 - A66040916
 TESTED DATE : 24/04/2023-29/04/2023 REPORTED DATE : 05/05/2023

PARAMETER**	TEST METHOD	SAMPLING DATE	RESULT ^{/1}	UNIT
Propylene oxide	NIOSH1612/GC-FID	05-06/04/2023	0.12	mg/m ³
			0.05	ppm
		06-07/04/2023	ND	mg/m ³
			ND	ppm
		07-08/04/2023	ND	mg/m ³
			ND	ppm
		08-09/04/2023	ND	mg/m ³
			ND	ppm
		09-10/04/2023	ND	mg/m ³
			ND	ppm
		10-11/04/2023	ND	mg/m ³
			ND	ppm
		11-12/04/2023	ND	mg/m ³
			ND	ppm

REMARK:^{/1} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Tummarut Photankham)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 736823E 1407369N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsoyon)

05/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6607005

Report No. 6607-0022 - 6607-0028

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : วัดมาบชูด
RECEIVED DATE : 04/07/2023 SAMPLE NO. : A66070022 - A66070028
TESTED DATE : 04/07/2023-06/07/2023 REPORTED DATE : 11/07/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ^{/1}	UNIT
Particulate matter less than or Equal					
10 micrometers (PM 10)	Gravimetric Method	22-23/06/2023	0.031	0.12	mg/m ³
		23-24/06/2023	0.035	0.12	mg/m ³
		24-25/06/2023	0.023	0.12	mg/m ³
		25-26/06/2023	0.028	0.12	mg/m ³
		26-27/06/2023	0.028	0.12	mg/m ³
		27-28/06/2023	0.021	0.12	mg/m ³
		28-29/06/2023	0.026	0.12	mg/m ³

REMARK:

^{/1} Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

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

(Sampling By Mr. Tummarut Photankham)

GPS = Sampling at UTM 47P 736823E 1407369N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoyon)

11/07/2023

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Request No. ATR6607005

Report No. 6607-0029 - 6607-0035

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : วัดมาบชภูค
RECEIVED DATE : 04/07/2023 SAMPLE NO. : A66070029 - A66070035
TESTED DATE : 04/07/2023-06/07/2023 REPORTED DATE : 11/07/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ^{1/}	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	22-23/06/2023	0.047	0.33	mg/m ³
		23-24/06/2023	0.051	0.33	mg/m ³
		24-25/06/2023	0.032	0.33	mg/m ³
		25-26/06/2023	0.031	0.33	mg/m ³
		26-27/06/2023	0.032	0.33	mg/m ³
		27-28/06/2023	0.048	0.33	mg/m ³
		28-29/06/2023	0.037	0.33	mg/m ³

REMARK:

^{1/} Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

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

(Sampling By Mr. Tummarut Photankham)

GPS = Sampling at UTM 47P 736823E 1407369N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoon)

11/07/2023

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Request No. ATR6607005

Report No. 6607-0036 - 6607-0042

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : วัดมาบชลุต
RECEIVED DATE : 04/07/2023 SAMPLE NO. : A66070036 - A66070042
TESTED DATE : 04/07/2023-10/07/2023 REPORTED DATE : 11/07/2023

PARAMETER**	TEST METHOD	SAMPLING DATE	RESULT ¹	UNIT
Propylene oxide	NIOSH1612/GC-FID	22-23/06/2023	1.02	mg/m ³
			0.43	ppm
		23-24/06/2023	ND	mg/m ³
			ND	ppm
		24-25/06/2023	ND	mg/m ³
			ND	ppm
		25-26/06/2023	ND	mg/m ³
			ND	ppm
		26-27/06/2023	ND	mg/m ³
			ND	ppm
		27-28/06/2023	ND	mg/m ³
			ND	ppm
		28-29/06/2023	ND	mg/m ³
			ND	ppm

REMARK:

¹ ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Tummarut Photankham)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 736823E 1407369N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.

(Miss Thanatporn Klinsoon)

11/07/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-R0472

Report No. R6604-I891 - R6604-I897

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC19
SAMPLE POINT : วัดมาบขลุค
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model M200E S/N 3998

SAMPLE NO. : 05762-05768
SAMPLING DATE : 05-12/04/2023
RECEIVED DATE : 12/04/2023
REPORTED DATE : 26/04/2023

TIME / DATE	05-06/04/2023	06-07/04/2023	07-08/04/2023	UNIT
11:00 - 12:00 ^{/2}	0.006	0.012	0.008	ppm
12:00 - 13:00	0.007	0.010	0.008	ppm
13:00 - 14:00	0.006	0.015	0.009	ppm
14:00 - 15:00	0.012	0.018	0.007	ppm
15:00 - 16:00	0.009	0.011	0.013	ppm
16:00 - 17:00	0.011	0.009	0.029	ppm
17:00 - 18:00	0.013	0.006	0.028	ppm
18:00 - 19:00	0.009	0.006	0.009	ppm
19:00 - 20:00	0.011	0.007	0.008	ppm
20:00 - 21:00	0.017	0.006	0.010	ppm
21:00 - 22:00	0.010	0.009	0.022	ppm
22:00 - 23:00	0.014	0.009	0.021	ppm
23:00 - 00:00	0.009	0.012	0.021	ppm
00:00 - 01:00	0.008	0.008	0.018	ppm
01:00 - 02:00	0.008	0.007	0.013	ppm
02:00 - 03:00	0.015	0.006	0.013	ppm
03:00 - 04:00	0.008	0.007	0.012	ppm
04:00 - 05:00	0.015	0.006	0.010	ppm
05:00 - 06:00	0.012	0.006	0.009	ppm
06:00 - 07:00	0.016	0.006	0.010	ppm
07:00 - 08:00	0.016	0.006	0.011	ppm
08:00 - 09:00	0.018	0.007	0.014	ppm
09:00 - 10:00	0.015	0.007	0.017	ppm
10:00 - 11:00	0.014	0.007	0.019	ppm
Maximum 1 hr.	0.018	0.018	0.029	ppm
Average 24 hr.	0.012	0.008	0.014	ppm
Standard (1 hr.) ^{/1}	0.17	0.17	0.17	ppm

REMARK : ^{/1} Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)^{/2} Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Phrasankharn)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MS. THANATPORN KLINSOPON)

26/04/2023

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Request No. LA66-R0472

Report No. R6604-1891 - R6604-1897

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC19
SAMPLE POINT : วัดมาบขลุ่ย
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model M200E S/N 3998

SAMPLE NO. : 05762-05768
SAMPLING DATE : 05-12/04/2023
RECEIVED DATE : 12/04/2023
REPORTED DATE : 26/04/2023

TIME / DATE	08-09/04/2023	09-10/04/2023	10-11/04/2023	UNIT
11:00 - 12:00 ²	0.021	0.006	0.010	ppm
12:00 - 13:00	0.024	0.005	0.010	ppm
13:00 - 14:00	0.015	0.004	0.007	ppm
14:00 - 15:00	0.008	0.005	0.007	ppm
15:00 - 16:00	0.006	0.005	0.007	ppm
16:00 - 17:00	0.008	0.005	0.007	ppm
17:00 - 18:00	0.007	0.004	0.008	ppm
18:00 - 19:00	0.010	0.005	0.006	ppm
19:00 - 20:00	0.009	0.005	0.006	ppm
20:00 - 21:00	0.006	0.005	0.007	ppm
21:00 - 22:00	0.004	0.005	0.006	ppm
22:00 - 23:00	0.005	0.005	0.007	ppm
23:00 - 00:00	0.006	0.004	0.005	ppm
00:00 - 01:00	0.005	0.005	0.005	ppm
01:00 - 02:00	0.006	0.005	0.005	ppm
02:00 - 03:00	0.006	0.005	0.006	ppm
03:00 - 04:00	0.006	0.004	0.006	ppm
04:00 - 05:00	0.005	0.005	0.004	ppm
05:00 - 06:00	0.006	0.005	0.006	ppm
06:00 - 07:00	0.009	0.006	0.006	ppm
07:00 - 08:00	0.013	0.007	0.006	ppm
08:00 - 09:00	0.011	0.007	0.007	ppm
09:00 - 10:00	0.014	0.006	0.007	ppm
10:00 - 11:00	0.006	0.008	0.008	ppm
Maximum 1 hr.	0.024	0.008	0.010	ppm
Average 24 hr.	0.009	0.005	0.006	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time* Parameter Outside The Scope of The Regulation of The Department of Industrial Works
(Measurement By Mr. Tummarut Phatankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 

(MS. THANATPORN KLINSOPON)

26/04/2023

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Request No. LA66-R0472

Report No. R6604-1891 - R6604-1897

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC19
SAMPLE POINT : วัดมาบขลุค
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model M200E S/N 3998

SAMPLE NO. : 05762-05768
SAMPLING DATE : 05-12/04/2023
RECEIVED DATE : 12/04/2023
REPORTED DATE : 26/04/2023

TIME / DATE	11-12/04/2023	UNIT
11:00 - 12:00 ²	0.011	ppm
12:00 - 13:00	0.011	ppm
13:00 - 14:00	0.008	ppm
14:00 - 15:00	0.010	ppm
15:00 - 16:00	0.009	ppm
16:00 - 17:00	0.011	ppm
17:00 - 18:00	0.013	ppm
18:00 - 19:00	0.010	ppm
19:00 - 20:00	0.018	ppm
20:00 - 21:00	0.017	ppm
21:00 - 22:00	0.022	ppm
22:00 - 23:00	0.020	ppm
23:00 - 00:00	0.013	ppm
00:00 - 01:00	0.006	ppm
01:00 - 02:00	0.007	ppm
02:00 - 03:00	0.005	ppm
03:00 - 04:00	0.006	ppm
04:00 - 05:00	0.006	ppm
05:00 - 06:00	0.007	ppm
06:00 - 07:00	0.006	ppm
07:00 - 08:00	0.007	ppm
08:00 - 09:00	0.008	ppm
09:00 - 10:00	0.010	ppm
10:00 - 11:00	0.013	ppm
Maximum 1 hr.	0.022	ppm
Average 24 hr.	0.011	ppm
Standard (1 hr.) ¹	0.17	ppm

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Phorankham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MS. THANATPORN KLINSOPON)

26/04/2023

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Request No. LA66-R0704

Report No. R6607-0041 - R6607-0047

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC19
SAMPLE POINT : วัดมาบชูด
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model T200 S/N 7874

SAMPLE NO. : 16247-16253
SAMPLING DATE : 22-29/06/2023
RECEIVED DATE : 29/06/2023
REPORTED DATE : 04/07/2023

TIME / DATE	22-23/06/2023	23-24/06/2023	24-25/06/2023	UNIT
11:00 - 12:00 ^{/2}	0.006	0.003	0.004	ppm
12:00 - 13:00	0.005	0.008	0.007	ppm
13:00 - 14:00	0.009	0.005	0.007	ppm
14:00 - 15:00	0.013	0.002	0.006	ppm
15:00 - 16:00	0.007	0.004	0.004	ppm
16:00 - 17:00	0.003	0.003	0.003	ppm
17:00 - 18:00	0.002	0.003	0.001	ppm
18:00 - 19:00	0.002	0.003	0.001	ppm
19:00 - 20:00	0.002	0.003	0.001	ppm
20:00 - 21:00	0.002	0.004	0.002	ppm
21:00 - 22:00	0.002	0.005	0.002	ppm
22:00 - 23:00	0.002	0.008	0.003	ppm
23:00 - 00:00	0.004	0.007	0.004	ppm
00:00 - 01:00	0.009	0.007	0.003	ppm
01:00 - 02:00	0.005	0.003	0.003	ppm
02:00 - 03:00	0.005	0.002	0.002	ppm
03:00 - 04:00	0.008	0.003	0.002	ppm
04:00 - 05:00	0.005	0.001	0.002	ppm
05:00 - 06:00	0.003	0.001	0.002	ppm
06:00 - 07:00	0.002	0.001	0.002	ppm
07:00 - 08:00	0.002	0.001	0.003	ppm
08:00 - 09:00	0.002	0.002	0.003	ppm
09:00 - 10:00	0.001	0.002	0.003	ppm
10:00 - 11:00	0.001	0.002	0.002	ppm
Maximum 1 hr.	0.013	0.008	0.007	ppm
Average 24 hr.	0.004	0.003	0.003	ppm
Standard (1 hr.) ^{/1}	0.17	0.17	0.17	ppm

REMARK : ^{/1} Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)^{/2} Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankuln)



Approved By

(MS. THANATPORN KLINSOPON)

04/07/2023

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Request No. LA66-R0704

Report No. R6607-0041 - R6607-0047

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC19
SAMPLE POINT : วัดมาบขลุ่ย
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model T200 S/N 7874

SAMPLE NO. : 16247-16253
SAMPLING DATE : 22-29/06/2023
RECEIVED DATE : 29/06/2023
REPORTED DATE : 04/07/2023

TIME / DATE	25-26/06/2023	26-27/06/2023	27-28/06/2023	UNIT
11:00 - 12:00 ²	0.003	0.002	0.009	ppm
12:00 - 13:00	0.005	0.003	0.009	ppm
13:00 - 14:00	0.003	0.004	0.010	ppm
14:00 - 15:00	0.002	0.002	0.009	ppm
15:00 - 16:00	0.002	0.001	0.004	ppm
16:00 - 17:00	0.001	0.002	0.002	ppm
17:00 - 18:00	0.001	0.002	0.001	ppm
18:00 - 19:00	0.001	0.005	0.002	ppm
19:00 - 20:00	0.001	0.003	0.002	ppm
20:00 - 21:00	0.001	0.002	0.002	ppm
21:00 - 22:00	0.003	0.003	0.002	ppm
22:00 - 23:00	0.004	0.004	0.002	ppm
23:00 - 00:00	0.004	0.005	0.002	ppm
00:00 - 01:00	0.005	0.004	0.002	ppm
01:00 - 02:00	0.002	0.002	0.002	ppm
02:00 - 03:00	0.002	0.002	0.002	ppm
03:00 - 04:00	0.002	0.001	0.002	ppm
04:00 - 05:00	0.002	0.002	0.001	ppm
05:00 - 06:00	0.003	0.004	0.001	ppm
06:00 - 07:00	0.003	0.004	0.001	ppm
07:00 - 08:00	0.002	0.002	0.001	ppm
08:00 - 09:00	0.003	0.004	0.001	ppm
09:00 - 10:00	0.003	0.007	0.001	ppm
10:00 - 11:00	0.002	0.008	0.001	ppm
Maximum 1 hr.	0.005	0.008	0.010	ppm
Average 24 hr.	0.003	0.003	0.003	ppm
Standard (1 hr.) ¹	0.17	0.17	0.17	ppm

REMARK : ¹ Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)² Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MS. THANATPORN KLINSOPON)

04/07/2023

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

Request No. LA66-R0704

Report No. R6607-0041 - R6607-0047

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC19
SAMPLE POINT : วัดมาบขลุค
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model T200 S/N 7874

SAMPLE NO. : 16247-16253
SAMPLING DATE : 22-29/06/2023
RECEIVED DATE : 29/06/2023
REPORTED DATE : 04/07/2023

TIME / DATE	28-29/06/2023	UNIT
11:00 - 12:00 ^{/2}	0.003	ppm
12:00 - 13:00	0.004	ppm
13:00 - 14:00	0.002	ppm
14:00 - 15:00	0.002	ppm
15:00 - 16:00	0.002	ppm
16:00 - 17:00	0.002	ppm
17:00 - 18:00	0.003	ppm
18:00 - 19:00	0.007	ppm
19:00 - 20:00	0.009	ppm
20:00 - 21:00	0.012	ppm
21:00 - 22:00	0.013	ppm
22:00 - 23:00	0.014	ppm
23:00 - 00:00	0.025	ppm
00:00 - 01:00	0.020	ppm
01:00 - 02:00	0.016	ppm
02:00 - 03:00	0.006	ppm
03:00 - 04:00	0.004	ppm
04:00 - 05:00	0.002	ppm
05:00 - 06:00	0.001	ppm
06:00 - 07:00	0.001	ppm
07:00 - 08:00	0.001	ppm
08:00 - 09:00	0.001	ppm
09:00 - 10:00	0.001	ppm
10:00 - 11:00	0.005	ppm
Maximum 1 hr.	0.025	ppm
Average 24 hr.	0.007	ppm
Standard (1 hr.) ^{/1}	0.17	ppm

REMARK : ^{/1} Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)^{/2} Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Phetunkham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(MS. THANATPORN KLINSOPON)

04/07/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Wind Speed & Wind Direction

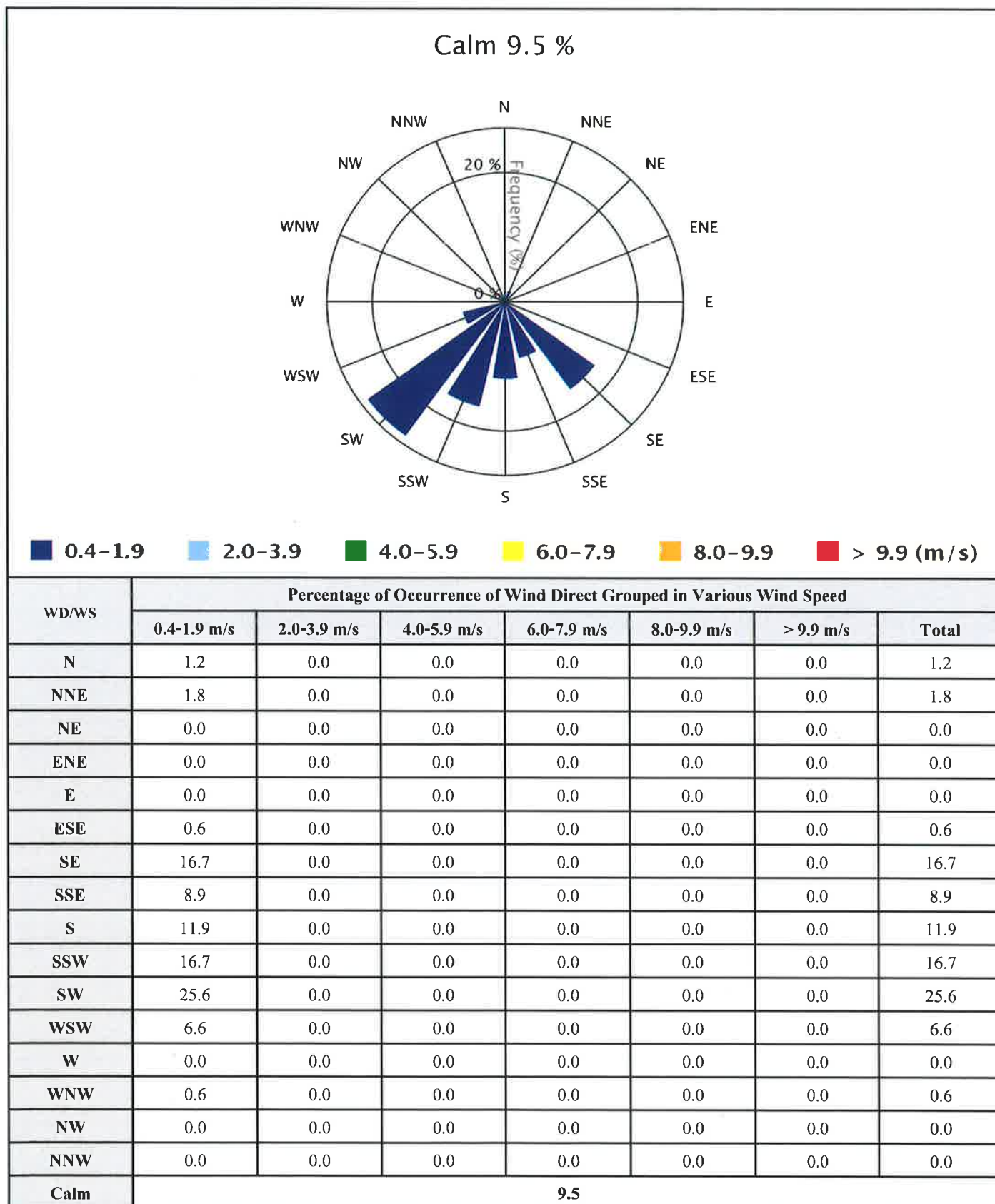
Request No. LA66-R0472

PTT Global Chemical Public Company Limited Branch 19 (GC 19)

Sample No. 05776

Sampling Source : วัดมาบขุด

Sampling Date : April 5-12, 2023



Wind Speed & Wind Direction

Request No. LA66-R0472

PTT Global Chemical Public Company Limited Branch 19 (GC 19)

Sample No. 05776

Sampling Source : วัดมาบขลุ่ด

Sampling Date : April 5-12, 2023

Time	April 5-6, 2023		April 6-7, 2023		April 7-8, 2023		April 8-9, 2023		April 9-10, 2023		April 10-11, 2023		April 11-12, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
11:00-12:00	0.4	SSW	0.9	ESE	1.3	N	0.4	SE	0.9	SSW	0.9	SW	0.9	SW
12:00-13:00	0.9	SSW	0.9	SSW	0.4	WNW	0.9	SE	0.9	SW	0.9	SW	0.9	SW
13:00-14:00	0.9	S	1.3	SSW	0.4	WSW	0.9	SW	0.9	SSE	0.9	SW	0.9	S
14:00-15:00	0.9	SSW	1.3	S	0.4	N	0.9	S	0.9	SSW	0.9	SSW	0.9	SW
15:00-16:00	0.9	SSE	1.3	SE	0.4	NNE	1.3	SW	0.9	SW	1.3	SSW	0.9	SSE
16:00-17:00	0.9	SSW	0.9	S	0.4	S	0.9	SSW	0.9	SSW	0.9	S	0.9	SSE
17:00-18:00	0.4	S	0.9	SW	0.4	SW	0.9	SW	0.9	SSW	0.9	SW	0.9	SSE
18:00-19:00	0.9	SE	0.9	SSW	0.9	SW	0.9	SE	0.9	SW	0.9	SW	0.4	S
19:00-20:00	0.4	SE	0.9	SW	0.4	WSW	0.9	SW	0.9	SW	0.4	SW	0.4	SSE
20:00-21:00	0.4	SE	0.4	SW	0.0	-	0.9	SW	0.9	SW	0.4	S	0.4	SE
21:00-22:00	0.4	SE	0.4	SE	0.0	-	0.9	WSW	0.4	SW	0.4	SW	0.4	SE
22:00-23:00	0.4	S	0.4	SE	0.4	NNE	0.4	WSW	0.4	SW	0.4	SSE	0.4	SSE
23:00-00:00	0.9	SSE	0.4	S	0.4	NNE	0.0	-	0.9	SW	0.4	SSW	0.4	SSE
00:00-01:00	0.4	SE	0.4	SE	0.0	-	0.0	-	0.4	SSW	0.9	SSW	0.4	SSE
01:00-02:00	0.4	SSE	0.4	S	0.4	SE	0.4	SE	0.4	SW	0.4	SSW	0.4	S
02:00-03:00	0.4	S	0.4	SSW	0.0	-	0.0	-	0.9	SW	0.9	SW	0.4	SW
03:00-04:00	0.4	SSW	0.0	-	0.4	SE	0.4	SE	0.4	SW	0.9	SSW	0.4	SSW
04:00-05:00	0.0	-	0.4	SSW	0.4	S	0.0	-	0.9	WSW	0.9	SW	0.4	SSE
05:00-06:00	0.4	S	0.4	S	0.0	-	0.4	SSE	0.9	SW	0.9	SSW	0.4	SE
06:00-07:00	0.0	-	0.9	SE	0.0	-	0.0	-	0.4	WSW	0.4	SW	0.4	SSW
07:00-08:00	0.4	SSE	0.4	S	0.4	SE	0.0	-	0.4	SW	0.4	SW	0.4	SE
08:00-09:00	0.4	S	0.9	SSW	0.4	SE	0.0	-	0.4	WSW	0.4	SW	0.9	SE
09:00-10:00	0.4	SW	0.9	SW	0.4	SE	0.4	WSW	0.9	WSW	0.4	SW	0.9	SE
10:00-11:00	0.4	SSW	0.4	SW	0.4	SE	0.9	WSW	0.4	WSW	0.9	SE	1.3	SSW

Wind Speed & Wind Direction

Request No. LA66-R0704

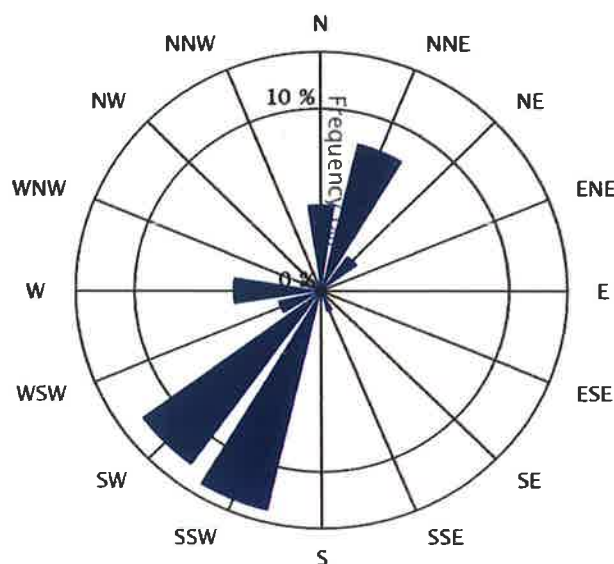
PTT Global Chemical Public Company Limited Branch 19 (GC 19)

Sample No. 16254

Sampling Source : วัดมาบขุด

Sampling Date : June 22-29, 2023

Calm 48.8 %


 0.4-1.9
 2.0-3.9
 4.0-5.9
 6.0-7.9
 8.0-9.9
 > 9.9 (m/s)

WD/WS	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.4-1.9 m/s	2.0-3.9 m/s	4.0-5.9 m/s	6.0-7.9 m/s	8.0-9.9 m/s	> 9.9 m/s	
N	4.8	0.0	0.0	0.0	0.0	0.0	4.8
NNE	8.3	0.0	0.0	0.0	0.0	0.0	8.3
NE	2.4	0.0	0.0	0.0	0.0	0.0	2.4
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	1.2	0.0	0.0	0.0	0.0	0.0	1.2
S	0.6	0.0	0.0	0.0	0.0	0.0	0.6
SSW	12.5	0.0	0.0	0.0	0.0	0.0	12.5
SW	11.9	0.0	0.0	0.0	0.0	0.0	11.9
WSW	2.4	0.0	0.0	0.0	0.0	0.0	2.4
W	4.8	0.0	0.0	0.0	0.0	0.0	4.8
WNW	1.2	0.0	0.0	0.0	0.0	0.0	1.2
NW	0.6	0.0	0.0	0.0	0.0	0.0	0.6
NNW	0.6	0.0	0.0	0.0	0.0	0.0	0.6
Calm	48.8						



Wind Speed & Wind Direction

Request No. LA66-R0704

PTT Global Chemical Public Company Limited Branch 19 (GC 19)

Sample No. 16254

Sampling Source : วัดมาบขุด

Sampling Date : June 22-29, 2023

Time	June 22-23, 2023		June 23-24, 2023		June 24-25, 2023		June 25-26, 2023		June 26-27, 2023		June 27-28, 2023		June 28-29, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
11:00-12:00	0.0	-	0.0	-	0.4	NNE	0.0	-	0.4	W	0.4	WNW	0.0	-
12:00-13:00	0.4	SW	0.0	-	0.9	NNE	0.4	SSW	0.4	SW	0.4	W	0.4	NNE
13:00-14:00	0.4	WSW	0.0	-	0.9	NNE	0.4	SSW	0.4	SW	0.4	SW	0.4	WSW
14:00-15:00	0.9	SW	0.4	SW	1.3	NNE	0.4	SW	0.4	SSW	0.4	WSW	0.4	SW
15:00-16:00	0.9	SW	0.4	SSW	0.4	NNE	0.4	W	0.4	SW	0.4	W	0.9	SSW
16:00-17:00	0.9	SSW	0.4	SW	0.4	WNW	0.4	NNE	0.4	NNE	0.4	WSW	0.9	SSW
17:00-18:00	0.4	SSW	0.4	SW	0.4	W	0.4	NNE	0.4	N	0.4	NW	0.9	SSW
18:00-19:00	0.4	SW	0.4	SW	0.0	-	0.4	NNE	0.4	W	0.4	NNW	0.9	SSW
19:00-20:00	0.4	SSE	0.4	SSW	0.0	-	0.0	-	0.4	W	0.4	W	0.4	SSW
20:00-21:00	0.4	SSE	0.0	-	0.0	-	0.4	SSW	0.0	-	0.0	-	0.4	SSW
21:00-22:00	0.4	N	0.0	-	0.4	SSW	0.0	-	0.0	-	0.4	SSW	0.4	SSW
22:00-23:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.4	SSW	0.4	SSW
23:00-00:00	0.4	N	0.4	SSW	0.4	SW	0.0	-	0.0	-	0.0	-	0.0	-
00:00-01:00	0.4	N	0.4	S	0.4	SW	0.0	-	0.0	-	0.0	-	0.0	-
01:00-02:00	0.4	N	0.0	-	0.4	SW	0.0	-	0.0	-	0.0	-	0.0	-
02:00-03:00	0.4	N	0.0	-	0.4	SSW	0.0	-	0.0	-	0.0	-	0.0	-
03:00-04:00	0.4	N	0.4	SW	0.4	SW	0.0	-	0.0	-	0.0	-	0.0	-
04:00-05:00	0.4	N	0.4	SW	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
05:00-06:00	0.9	NNE	0.0	-	0.0	-	0.0	-	0.0	-	0.4	NNE	0.0	-
06:00-07:00	0.9	NE	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
07:00-08:00	0.4	NE	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
08:00-09:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-
09:00-10:00	0.0	-	0.4	NE	0.4	NE	0.0	-	0.0	-	0.0	-	0.0	-
10:00-11:00	0.0	-	0.4	NNE	0.4	NNE	0.0	-	0.0	-	0.0	-	0.0	-

Request No. LA66-0423

Report No. 6604-0257

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE POINT : ปล่องของระบบ TO SAMPLE NO. : 01670
 SAMPLING DATE : 07/04/2023 SAMPLING TIME : 09:50-10:35
 RECEIVED DATE : 18/04/2023 REPORTED DATE : 28/04/2023
 TESTED DATE : 18-24/04/2023
 STACK DESCRIPTION

Height :	60.00	m	Type of Process :	Combustion	
Diameter :	2.70	m	Type of Fuel :	Natural Gas	
Temperature :	436.00	°C	Oxygen Content :	2.27	%
Air Velocity :	10.41	m/s	Barometric Pressure :	757.00	mm.Hg
Flow rate ² :	23.22	m ³ /s	Atmospheric Temperature :	30.00	°C
Moisture Content :	6.89	%			

PARAMETER*	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			2.27 % O ₂	7 % O ₂		
Particulate	Isokinetic, Gravimetric	09:50-10:35	1.5	1.1	320, 113 ³	mg/m ³
(TSP)			0.035	-	2.866 ³	g/s

REMARK:¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² DRY BASIS (25°C, 760 mm.Hg)³ ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)

* SAMPLING BY MR. METEE SUKPRASERT (ว-003-ท-8333)

GPS = Sampling at UTM 47P 731246E 1406443N

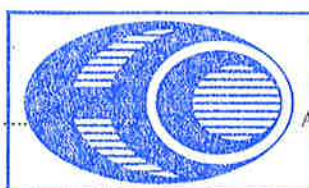
Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

28/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

28/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-0423

Report No. 6604-0258

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE POINT : ปล่องของระบบ TO SAMPLE NO. : 01671
SAMPLING DATE : 07/04/2023 SAMPLING TIME : 10:10-10:15
RECEIVED DATE : 18/04/2023 REPORTED DATE : 28/04/2023
TESTED DATE : 18-24/04/2023
STACK DESCRIPTION

Height :	60.00	m	Type of Process :	Combustion
Diameter :	2.70	m	Type of Fuel :	Natural Gas
Temperature :	436.00	°C	Oxygen Content :	2.27 %
Air Velocity :	10.41	m/s	Barometric Pressure :	757.00 mm.Hg
Flow rate ² :	23.22	m ³ /s	Atmospheric Temperature :	30.00 °C
Moisture Content :	6.89	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			2.27 % O ₂	7 % O ₂		
Oxides of Nitrogen	Chemical Absorption,	10:10-10:15	17.8	13.3	376, 28.6 ³	mg/m ³
(NO _x as NO ₂)	Colorimetric		9.5	7.1	200, 15.2 ³	ppm
			0.413	-	0.725 ³	g/s

REMARK:¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² DRY BASIS (25°C, 760 mm.Hg)³ ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)

* SAMPLING BY MR. METEE SUKPRASERT (ว-003-ท-8333)

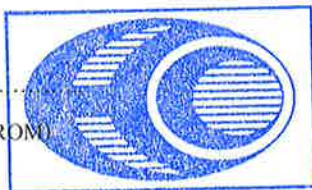
GPS = Sampling at UTM 47P 731246E 1406443N

Examined By

(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

28/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

Thongchai Boonsak

(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

28/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-0423

Report No. 6604-0260

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE POINT : ปล่องของระบบ TO SAMPLE NO. : 01673
SAMPLING DATE : 07/04/2023 SAMPLING TIME : 09:50-10:20
RECEIVED DATE : 18/04/2023 REPORTED DATE : 29/04/2023
TESTED DATE : 18-29/04/2023
STACK DESCRIPTION

Height :	60.00	m	Type of Process :	Combustion
Diameter :	2.70	m	Type of Fuel :	Natural Gas
Temperature :	436.00	°C	Oxygen Content :	2.27 %
Air Velocity :	10.41	m/s	Barometric Pressure :	757.00 mm.Hg
Flow rate ^{1/2} :	23.22	m ³ /s	Atmospheric Temperature :	30.00 °C
Moisture Content :	6.89	%		

PARAMETER	TEST METHOD	TIME	RESULT ^{1/2}		STD ^{1/3}	UNIT
			2.27 % O ₂	7 % O ₂		
Total Volatile Organic Compounds (TVOCs) ^{1/4}	U.S.EPA Method 25 A	09:50-10:20	2.07	1.54	- ^{1/3}	ppm
			0.048	-	2.383 ^{1/3}	g/s

REMARK:^{1/1} NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)^{1/2} DRY BASIS (25°C, 760 mm.Hg)^{1/3} ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)^{1/4} SAMPLING BY EASTERN THAI CONSULTING 1992 CO.,LTD.

(MR. METEE SUKPRASERT)

ANALYSED BY SECOT CO.,LTD.

GPS = Sampling at UTM 47P 731246E 1406443N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By: *Thongchai Boonsak*
(MR. THONGCHAI BOONSAK)

29/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-0423

Report No. 6604-0259

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE POINT : ปล่องของระบบ TO SAMPLE NO. : 01672
 SAMPLING DATE : 07/04/2023 SAMPLING TIME : 09:50-10:20
 RECEIVED DATE : 18/04/2023 REPORTED DATE : 28/04/2023
 TESTED DATE : 18-25/04/2023

STACK DESCRIPTION

Height :	60.00	m	Type of Process :	Combustion
Diameter :	2.70	m	Type of Fuel :	Natural Gas
Temperature :	436.00	°C	Oxygen Content :	2.27 %
Air Velocity :	10.41	m/s	Barometric Pressure :	757.00 mm.Hg
Flow rate ² :	23.22	m ³ /s	Atmospheric Temperature :	30.00 °C
Moisture Content :	6.89	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			2.27 % O ₂	7 % O ₂		
Carbon monoxide	Bag, Non Dispersive Infrared	09:50-10:20	2.6	1.9	790	mg/m ³
(CO)			2.3	1.7	690	ppm

REMARK:¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² DRY BASIS (25°C, 760 mm.Hg)

* SAMPLING BY MR. METEE SUKPRASERT (ว-003-ก-8333)

GPS = Sampling at UTM 47P 731246E 1406443N

Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

28/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ก-5618)

28/04/2023

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

Request No. LA66-0638

Report No. 6606-0383

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE POINT : ปล่อง Liquid Incinerator
SAMPLING DATE : 23/06/2023
RECEIVED DATE : 24/06/2023
TESTED DATE : 24-28/06/2023
SAMPLE NO. : 03557
SAMPLING TIME : 10:35-11:15
REPORTED DATE : 28/06/2023

STACK DESCRIPTION

Height :	60.00	m	Type of Process :	Combustion
Diameter :	2.20	m	Type of Fuel :	Natural Gas
Temperature :	315.00	°C	Oxygen Content :	11.14 %
Air Velocity :	17.85	m/s	Barometric Pressure :	753.25 mm.Hg
Flow rate ^{1/2} :	31.68	m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	6.93	%		

PARAMETER*	TEST METHOD	TIME	RESULT ^{1/2}		STD ^{1/}	UNIT
			11.14 % O ₂	7 % O ₂		
Particulate	Isokinetic, Gravimetric	10:35-11:15	0.2	0.3	35, 28 ³	mg/m ³
(TSP)			0.006	-	0.880 ³	g/s

REMARK:^{1/} NOTIFICATION OF MINISTRY OF INDUSTRY B.E. 2545 (2002)^{2/} DRY BASIS (25°C, 760 mm.Hg)^{3/} คำกำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)

* SAMPLING BY MR. METEE SUKPRASERT (จ-003-จ-8333)

GPS = Sampling at UTM 47P 731287E 1406416N

Examined By.....

(MISS APIRADEE CHUEN-AROM)

(จ-003-ค-4377)

28/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MR. THONGCHAI BOONSAK)

(จ-003-ค-5618)

28/06/2023

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

Request No. LA66-0638

Report No. 6606-0384

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE POINT : ปล่อง Liquid Incinerator SAMPLE NO. : 03558
 SAMPLING DATE : 23/06/2023 SAMPLING TIME : 10:45-10:50
 RECEIVED DATE : 24/06/2023 REPORTED DATE : 28/06/2023
 TESTED DATE : 24-28/06/2023
 STACK DESCRIPTION

Height :	60.00	m	Type of Process :	Combustion
Diameter :	2.20	m	Type of Fuel :	Natural Gas
Temperature :	315.00	°C	Oxygen Content :	11.14 %
Air Velocity :	17.85	m/s	Barometric Pressure :	753.25 mm.Hg
Flow rate ² :	31.68	m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	6.93	%		

PARAMETER*	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			11.14 % O ₂	7 % O ₂		
Oxides of Nitrogen (NO _x as NO ₂)	Chemical Absorption,	10:45-10:50	5.3	7.5	150, 15.7 ³	mg/m ³
	Colorimetric		2.8	4.0	79.7, 8.3 ³	ppm
			0.168	-	0.490 ³	g/s

REMARK:¹ NOTIFICATION OF MINISTRY OF INDUSTRY B.E. 2545 (2002)² DRY BASIS (25°C, 760 mm.Hg)³ ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)

* SAMPLING BY MR. METEE SUKPRASERT (ว-003-จ-8333)

GPS = Sampling at UTM 47P 731287E 1406416N

Examined By...

(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

28/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By...

Thongchai Boonsak

(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

28/06/2023

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

Request No. LA66-0638

Report No. 6606-0385

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE POINT : ปล่อง Liquid Incinerator SAMPLE NO. : 03559
 SAMPLING DATE : 23/06/2023 SAMPLING TIME : 10:40-11:10
 RECEIVED DATE : 24/06/2023 REPORTED DATE : 05/07/2023
 TESTED DATE : 24/06/2023-04/07/2023
 STACK DESCRIPTION

Height :	60.00	m	Type of Process :	Combustion
Diameter :	2.20	m	Type of Fuel :	Natural Gas
Temperature :	315.00	°C	Oxygen Content :	11.14 %
Air Velocity :	17.85	m/s	Barometric Pressure :	753.25 mm.Hg
Flow rate ² :	31.68	m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	6.93	%		

PARAMETER	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			11.14 % O ₂	7 % O ₂		
Total Volatile Organic Compounds (TVOCs) ⁴	U.S.EPA Method 25 A	10:40-11:10	1.67	2.38	-, - ³	ppm
			0.053	-	2.989 ³	g/s

REMARK:¹ NOTIFICATION OF MINISTRY OF INDUSTRY B.E. 2545 (2002)² DRY BASIS (25°C, 760 mm.Hg)³ ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)⁴ SAMPLING BY EASTERN THAI CONSULTING 1992 CO.,LTD.

(MR. METEE SUKPRASERT)

ANALYSED BY SECOT CO.,LTD.

GPS = San pling at UTM 47P 731287E 1406416N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By


(MR. THONGCHAI BOONSAK)

05/07/2023

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

Request No. LA66-0638

Report No. 6606-0386

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE POINT : ปล่อง Liquid Incinerator
SAMPLING DATE : 23/06/2023
RECEIVED DATE : 24/06/2023
TESTED DATE : 24-28/06/2023
STACK DESCRIPTION

Height :	60.00	m	Type of Process :	Combustion
Diameter :	2.20	m	Type of Fuel :	Natural Gas
Temperature :	315.00	°C	Oxygen Content :	11.14 %
Air Velocity :	17.85	m/s	Barometric Pressure :	753.25 mm.Hg
Flow rate ² :	31.68	m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	6.93	%		

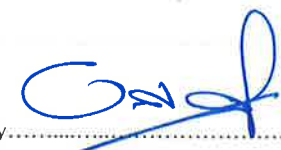
PARAMETER*	TEST METHOD	TIME	RESULT ²		STD ¹	UNIT
			11.14 % O ₂	7 % O ₂		
Carbon monoxide	Bag, Non Dispersive Infrared	10:40-11:10	12.7	18.1	790	mg/m ³
(CO)			11.1	15.8	690	ppm

REMARK:¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)² DRY BASIS (25°C, 760 mm.Hg)

* SAMPLING BY MR. METEE SUKPRASERT (จ-003-จ-8333)

GPS = Sampling at UTM 47P 731287E 1406416N

Examined By



(MISS APIRADEE CHUEN-AROM)

(จ-003-ค-4377)

28/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(จ-003-ค-5618)

28/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-0638

Report No. 6606-0387

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE POINT : ปล่อง Liquid Incinerator SAMPLE NO. : 03561
SAMPLING DATE : 23/06/2023 SAMPLING TIME : 10:40-11:10
RECEIVED DATE : 24/06/2023 REPORTED DATE : 28/06/2023
TESTED DATE : 24-28/06/2023

STACK DESCRIPTION

Height :	60.00	m	Type of Process :	Combustion
Diameter :	2.20	m	Type of Fuel :	Natural Gas
Temperature :	315.00	°C	Oxygen Content :	11.14 %
Air Velocity :	17.85	m/s	Barometric Pressure :	753.25 mm.Hg
Flow rate ¹ :	31.68	m ³ /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	6.93	%		

PARAMETER*	TEST METHOD	TIME	RESULT ¹		UNIT
			11.14 % O ₂	7 % O ₂	
Benzene	Sorbent Adsorption,	10:40-11:10	<1.68	<1.68 ²	mg/m ³
	Gas Chromatography		<0.52	<0.52 ²	ppm
			<0.053	-	g/s

REMARK:¹ DRY BASIS (25°C, 760 mm.Hg)² RESULTS OF ACTUAL %O₂

* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION

OF THE DEPARTMENT OF INDUSTRIAL WORKS

(SAMPLING BY MR. METEE SUKPRASERT)

GPS = Sampling at UTM 47P 731287E 1406416N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(MR. THONGCHAI BOONSAK)

28/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Test Report

Request No : W6601025

Report No : 6601-1084-I

Customer : PTT Global Chemical Public Company Limited Branch 19**
Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150**
Sampling Source : GC 19**
Sample Name : Final Check Basin**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 05/01/2023 - 16/01/2023

Sample No : W 66010078
Sampling Date : 04/01/2023**
Sampling Time : 10:40 AM**
Received Date : 05/01/2023
Reported Date : 12/06/2023

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	20.2	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	174	≤750
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	8.0	5.5 - 9
Phenol *	mg/L	Distillation, Direct Photometric Method (SM:5530B,D)	0.029	≤1
Temperature *	°C	Laboratory and Field Method	27	≤45
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	252	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	9	≤200

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L [2 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L]


Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

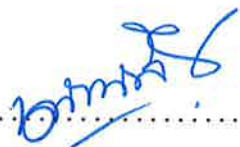
3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (จ-003-ก-7281)*

5. ** = These data are non laboratory data.

Examined By : 
(Miss Apiradee Chuen-arom)
(จ-003-ก-4377)
12/06/2023



Approved By : 
(Miss Nunnaphat Bakhuntod)
(จ-003-ก-4367)
12/06/2023

REPORTED TEST RESULTS ARE VALID FOR THE SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

TEST REPORT

Customer	: PTT Global Chemical Public Company Limited Branch 19**	Sample No.	: W 66010079
Address	: Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150**	Sampling Date	: 04/01/2023**
Sampling Source	: GC 19**	Sampling Time	: 10:30 AM**
Sample Name	: Salt Solution Package**	Received Date	: 05/01/2023
Sampling By	: ETC**	Reported Date	: 20/06/2023
Sampling Method	: Grab**		
Tested Date	: 05/01/2023 – 16/01/2023		

Parameter	Unit	Method	Result	Standard ^{1/,2}
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5
pH (on site) *		Electrometric Method	7.8	5.5-9.0
Phenol *	mg/L	Distillation, Direct Photometric Method (SM:5530B,D)	0.006	≤ 1
Temperature *	°C	Laboratory and Field Method	31	≤ 40
Total Dissolved Solids *	mg/L	Dried at 180 C (SM:2540C)	9,875	38,500***
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	16	≤ 50

Physical Appearance : 1. Sample : yellowish, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

- Remark :
- 1./1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
 - 2./2 Notification of the Ministry of Natural Resources and Environmental, B.E. 2559 (2016)
 3. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
 4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
 5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (จ-003-ค-5637)*
 6. *** ของแข็งละลายน้ำทั้งหมด (Total Dissolved Solids) กรณีระบายลงแหล่งน้ำที่มีค่าของแข็งละลายน้ำทั้งหมดเกินกว่า 3,000 มิลลิกรัมต่อลิตร ค่าของแข็งละลายน้ำทั้งหมดในน้ำทิ้งที่จะระบายได้ต้องมีค่าเกินกว่าค่าของแข็งละลายน้ำทั้งหมดที่มีอยู่ในแหล่งน้ำนั้นไม่เกิน 5,000 มิลลิกรัมต่อลิตร (คลองบางเบิด บริเวณระยะห่างจากจุดระบายน้ำทิ้งของนิคมอุตสาหกรรมผาแดง 500 เมตร มีค่า Total Dissolved Solids = 33,500 มิลลิกรัมต่อลิตร)
 7. ** = These data are non laboratory data.

Examined By

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

20/06/2023

SUPPLEMENT TO TEST REPORT NO. 6601-1085



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Nunnaphat Bakhuntod)

(จ-003-ค-4367)

20/06/2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

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Test Report

Request No : W6601025

Report No : 6601-1086-1

Customer : PTT Global Chemical Public Company Limited Branch 19**
Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150**
Sampling Source : GC 19**
Sample Name : Cooling Water Blowdown**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 05/01/2023 - 11/01/2023

Sample No : W 66010080
Sampling Date : 04/01/2023**
Sampling Time : 10:20 AM**
Received Date : 05/01/2023
Reported Date : 12/06/2023

Parameter	Unit	Method	Result	Standard ¹
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	40	≤750
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.7	5.5 - 9
Temperature *	°C	Laboratory and Field Method	30	≤45
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	618	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	6	≤200

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]


Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.


4. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (จ-003-ก-7281)*

5. ** = These data are non laboratory data.

Examined By : 
(Miss Apiradee Chuen-arom)
(จ-003-ก-4377)
12/06/2023

SUPPLEMENT TO TEST REPORT NO. 6601-1086



Approved By : 
(Miss Nunnaphat Bakhuntod)
(จ-003-ก-4367)
12/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6604172

Report No : 6604-1627

Customer : PTT Global Chemical Public Company Limited Branch 19**
Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150**
Sampling Source : GC 19** Sample No : W 66040659
Sample Name : Final Check Basin** Sampling Date : 05/04/2023**
Sampling By : ETC** Sampling Time : 9:50 AM**
Sampling Method : Grab** Received Date : 06/04/2023
Tested Date : 10/04/2023 - 18/04/2023 Reported Date : 18/04/2023

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	3.4	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	61	≤750
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	8.9	5.5 - 9
Phenol *	mg/L	Distillation, Direct Photometric Method (SM:5530B,D)	0.015	≤1
Temperature *	°C	Laboratory and Field Method	31	≤45
Total Dissolved Solids #	mg/L	Dried at 180 °C (SM:2540C)	640	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 °C (SM:2540D)	10	≤200

Physical Appearance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharek Phatklang (๖-๐๐3-๖-5637)*

5. ** = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)

(๖-๐๐3-๖-4377)

18/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(๖-๐๐3-๖-2205)

18/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

TEST REPORT

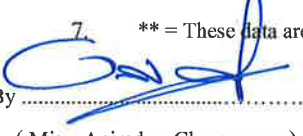
Customer	: PTT Global Chemical Public Company Limited Branch 19**	Sample No.	: W 66040660
Address	: Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150**	Sampling Date	: 05/04/2023**
Sampling Source	: GC 19**	Sampling Time	: 10:00 AM**
Sample Name	: Salt Solution Package**	Received Date	: 06/04/2023
Sampling By	: ETC**	Reported Date	: 18/04/2023
Sampling Method	: Grab**		
Tested Date	: 10/04/2023 – 18/04/2023		

Parameter	Unit	Method	Result	Standard ^{1/,2}
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5
pH (on site) *		Electrometric Method	8.5	5.5-9.0
Phenol *	mg/L	Distillation, Direct Photometric Method (SM:5530B,D)	< 0.005	≤ 1
Temperature *	°C	Laboratory and Field Method	34	≤ 40
Total Dissolved Solids *	mg/L	Dried at 180 C (SM:2540C)	11,700	42,060***
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	18	≤ 50

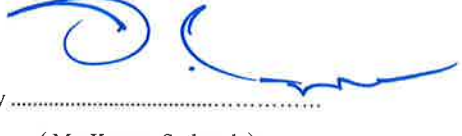
Physical Appearance :
1. Sample : yellowish, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark :
1./1 Industrial Effluent Standard, Notification of the Ministry of Industry, B.E. 2560 (2017)
2./2 Notification of the Ministry of Natural Resources and Environmental, B.E. 2559 (2016)
3. @ = ISO/IEC 17025:2017 Accredited by TISL, # = ISO/IEC 17025:2017 Accredited by DSS,
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (จ-003-ค-5637)*
6. *** ของแข็งละลายน้ำทั้งหมด (Total Dissolved Solids) กรณีระบายลงแหล่งน้ำที่มีค่าของแข็งละลายน้ำทั้งหมดเกินกว่า 3,000 มิลลิกรัมต่อลิตร ค่าของแข็งละลายน้ำทั้งหมดในน้ำทิ้งที่จะระบายได้ต้องมีค่าเกินกว่าค่าของแข็งละลายน้ำทั้งหมดที่มีอยู่ในแหล่งน้ำนั้นไม่เกิน 5,000 มิลลิกรัมต่อลิตร (คลองบางเบิด บริเวณระยะห่างจากจุดระบายน้ำทิ้งของนิคมอุตสาหกรรมมาบตาพุด 500 เมตร มีค่า Total Dissolved Solids = 37,060 มิลลิกรัมต่อลิตร)

** = These data are non laboratory data

Examined By 
(Miss Apiradee Chuen-arom)
(จ-003-ค-4377)
18/04/2023



Approved By 
(Mr. Kawee Suthasub)
(จ-003-ค-2205)
18/04/2023

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

Test Report

Customer : PTT Global Chemical Public Company Limited Branch 19**
Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150**
Sampling Source : GC 19**
Sample Name : Cooling Water Blowdown**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 10/04/2023 - 18/04/2023

Request No : W 6604172

Report No : 6604-1629

Sample No : W 66040661
Sampling Date : 05/04/2023**
Sampling Time : 9:40 AM**
Received Date : 06/04/2023
Reported Date : 18/04/2023

Parameter	Unit	Method	Result	Standard ¹
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	48	≤750
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	8.0	5.5 - 9
Temperature *	°C	Laboratory and Field Method	33	≤45
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	498	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	10	≤200

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (จ-003-จ-5637)*

5. ** = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)
(จ-003-ค-4377)
18/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)
(จ-003-ค-2205)
18/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6607008

Report No : 6607-0771

Customer : PTT Global Chemical Public Company Limited Branch 19**

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150**

Sampling Source : GC 19**

Sample No : W 66070041

Sample Name : Final Check Basin**

Sampling Date : 30/06/2023**

Sampling By : ETC**

Sampling Time : 3:30 PM**

Sampling Method : Grab**

Received Date : 01/07/2023

Tested Date : 03/07/2023 - 11/07/2023

Reported Date : 11/07/2023

Parameter	Unit	Method	Result	Standard ^{1/}
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	68.8	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	172	≤750
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	8.1	5.5 - 9
Phenol *	mg/L	Distillation, Direct Photometric Method (SM:5530B,D)	0.863	≤1
Temperature *	°C	Laboratory and Field Method	35	≤45
Total Dissolved Solids #	mg/L	Dried at 180 °C (SM:2540C)	194	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 °C (SM:2540D)	7	≤200

Physical Appearance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 0.5 L(2 Bottle), PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant

2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

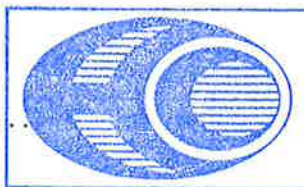
4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (ว-003-จ-5637)*

5. ** = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)
(ว-003-ค-4377)

11/07/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)

(ว-003-ค-4367)

11/07/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
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TEST REPORT

Customer	: PTT Global Chemical Public Company Limited Branch 19**	Sample No.	: W 66070042
Address	: Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150**	Sampling Date	: 30/06/2023**
Sampling Source	: GC 19**	Sampling Time	: 3:25 PM**
Sample Name	: Salt Solution Package**	Received Date	: 01/07/2023
Sampling By	: ETC**	Reported Date	: 11/07/2023
Sampling Method	: Grab**		
Tested Date	: 03/07/2023 – 11/07/2023		

Parameter	Unit	Method	Result	Standard ^{1/,2}
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5
pH (on site) *		Electrometric Method	8.6	5.5-9.0
Phenol *	mg/L	Distillation, Direct Photometric Method (SM:5530B,D)	< 0.005	≤ 1
Temperature *	°C	Laboratory and Field Method	36	≤ 40
Total Dissolved Solids *	mg/L	Dried at 180 C (SM:2540C)	17,895	41,160***
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	14	≤ 50

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1./1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2./2 Notification of the Ministry of Natural Resources and Environmental, B.E. 2559 (2016)
3. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (จ-003-ค-5637)*
6. *** ของแข็งละลายน้ำทั้งหมด (Total Dissolved Solids) กรณีระบายลงแหล่งน้ำที่มีค่าของแข็งละลายน้ำทั้งหมดเกินกว่า 3,000 มิลลิกรัมต่อลิตร ค่าของแข็งละลายน้ำทั้งหมดในน้ำทิ้งที่จะระบายได้ต้องมีค่าเกินกว่าค่าของแข็งละลายน้ำทั้งหมดที่มีอยู่ในแหล่งน้ำนั้น ไม่เกิน 5,000 มิลลิกรัมต่อลิตร (คลองบางเบิด บริเวณระยะห่างจากจุดระบายน้ำทิ้งของนิคมอุตสาหกรรมผาแดง 500 เมตร มีค่า Total Dissolved Solids = 36,160 มิลลิกรัมต่อลิตร)

7. ** = These data are non laboratory data.

Examined By 

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

11/07/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(Miss Nunnaphat Bakhuntod)

(จ-003-ค-4367)

11/07/2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6607008

Customer : PTT Global Chemical Public Company Limited Branch 19**

Report No : 6607- 0773

Address : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150**

Sampling Source : GC 19**

Sample No : W 66070043

Sample Name : Cooling Water Blowdown**

Sampling Date : 30/06/2023**

Sampling By : ETC**

Sampling Time : 3:10 PM**

Sampling Method : Grab**

Received Date : 01/07/2023

Tested Date : 03/07/2023 - 11/07/2023

Reported Date : 11/07/2023

Parameter	Unit	Method	Result	Standard/ ¹
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	48	≤750
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	<3.0	≤10
pH (on site) *		Electrometric Method	8.4	5.5 - 9
Temperature *	°C	Laboratory and Field Method	36	≤45
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	812	≤3000
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	10	≤200

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, G 1.0 L]

Remark : 1. /1 Eastern Industrial Estate (Map ta Phut) , Maximum levels for Wastewater Discharging to Central Wastewater Treatment Plant
2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

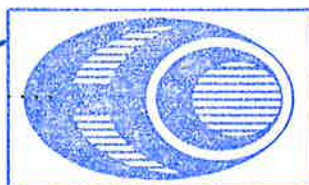
4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (จ-003-ก-5637)*

5. ** = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)
(จ-003-ก-4377)

11/07/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
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Approved By :

(Miss Nunnaphat Bakhuntod)
(จ-003-ก-4367)

11/07/2023

Request No. LA66-R0472

Report No. R6604-1898

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GC19
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศตะวันตก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , L_{90} & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01120946 : Class 2

SAMPLE NO. : 05769
MEASURING DATE : 05-06/04/2023
RECEIVED DATE : 12/04/2023
REPORTED DATE : 26/04/2023

TIME \ DATE	05-06/04/2023 (L_{eq})	05-06/04/2023 (L_{max})	05-06/04/2023 (L_{90})	UNIT
13:00 - 14:00 ¹³	61.1	67.4	60.1	dB(A)
14:00 - 15:00	62.3	80.6	59.8	dB(A)
15:00 - 16:00	60.5	65.6	59.5	dB(A)
16:00 - 17:00	61.3	70.1	60.4	dB(A)
17:00 - 18:00	60.9	65.0	60.1	dB(A)
18:00 - 19:00	61.0	65.9	60.1	dB(A)
19:00 - 20:00	60.6	65.4	59.7	dB(A)
20:00 - 21:00	60.5	76.1	59.5	dB(A)
21:00 - 22:00	60.5	64.2	59.6	dB(A)
22:00 - 23:00	60.7	65.4	59.7	dB(A)
23:00 - 00:00	60.6	65.2	59.6	dB(A)
00:00 - 01:00	61.0	66.6	60.0	dB(A)
01:00 - 02:00	61.2	65.3	60.2	dB(A)
02:00 - 03:00	61.0	66.9	60.2	dB(A)
03:00 - 04:00	60.9	65.3	60.0	dB(A)
04:00 - 05:00	60.7	65.3	59.8	dB(A)
05:00 - 06:00	60.8	65.3	60.0	dB(A)
06:00 - 07:00	60.7	67.7	59.8	dB(A)
07:00 - 08:00	60.5	64.2	59.7	dB(A)
08:00 - 09:00	60.5	64.1	59.6	dB(A)
09:00 - 10:00	60.5	65.4	59.6	dB(A)
10:00 - 11:00	60.7	70.1	59.7	dB(A)
11:00 - 12:00	60.5	65.2	59.5	dB(A)
12:00 - 13:00	60.8	65.9	59.7	dB(A)
L_{eq} 24 hr.	60.8	-	-	dB(A)
L_{dn}	67.3	-	-	dB(A)
Maximum	-	80.6	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	$115^{1/1}, 115^{1/2}$	-	dB(A)

REMARK : ¹¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)¹² Notification of Ministry of the Industry B.E. 2548 (2005)* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Phetankum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

¹³ Start TimeApproved By 

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-R0472

Report No. R6604-1899

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GC19
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศตะวันตก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , L_{90} & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01120946 : Class 2

SAMPLE NO. : 05770
MEASURING DATE : 06-07/04/2023
RECEIVED DATE : 12/04/2023
REPORTED DATE : 26/04/2023

TIME \ DATE	06-07/04/2023 (L_{eq})	06-07/04/2023 (L_{max})	06-07/04/2023 (L_{90})	UNIT
13:00 - 14:00 ¹³	61.0	72.5	60.0	dB(A)
14:00 - 15:00	61.1	70.9	60.1	dB(A)
15:00 - 16:00	61.1	65.9	60.1	dB(A)
16:00 - 17:00	60.7	66.3	59.7	dB(A)
17:00 - 18:00	61.3	74.0	60.3	dB(A)
18:00 - 19:00	61.2	75.6	60.2	dB(A)
19:00 - 20:00	61.0	63.6	60.2	dB(A)
20:00 - 21:00	60.5	67.0	59.7	dB(A)
21:00 - 22:00	60.4	63.8	59.6	dB(A)
22:00 - 23:00	60.4	64.7	59.5	dB(A)
23:00 - 00:00	60.9	65.6	59.9	dB(A)
00:00 - 01:00	61.1	67.6	60.0	dB(A)
01:00 - 02:00	60.9	65.4	59.9	dB(A)
02:00 - 03:00	60.6	64.0	59.8	dB(A)
03:00 - 04:00	60.8	63.5	60.0	dB(A)
04:00 - 05:00	61.0	66.7	60.1	dB(A)
05:00 - 06:00	61.4	67.5	60.4	dB(A)
06:00 - 07:00	61.2	69.6	60.2	dB(A)
07:00 - 08:00	61.1	66.8	60.2	dB(A)
08:00 - 09:00	61.5	67.7	60.5	dB(A)
09:00 - 10:00	61.8	67.7	60.8	dB(A)
10:00 - 11:00	63.3	90.2	61.6	dB(A)
11:00 - 12:00	61.2	74.0	60.3	dB(A)
12:00 - 13:00	60.3	64.4	59.6	dB(A)
L_{eq} 24 hr.	61.1	-	-	dB(A)
L_{dn}	67.4	-	-	dB(A)
Maximum	-	90.2	-	dB(A)
Standard	$70^{/1}, 70^{/2}$	$115^{/1}, 115^{/2}$	-	dB(A)

REMARK : ^{/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)^{/2} Notification of Ministry of the Industry B.E. 2548 (1998)* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Phothaisanin)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

^{/3} Start TimeApproved By: 
(MRS. WANPEN LHAOCHINDAWAT)

26/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-R0472

Report No. R6604-1900

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
 SAMPLE SOURCE : GC19
 SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศตะวันตก
 PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , L_{90} & L_{dn}
 DETERMINATION METHOD : ISO 1996-1:2016
 INSTRUMENT : Integrated Sound Level Meter
 S/N 01120946 : Class 2

SAMPLE NO. : 05771
 MEASURING DATE : 07-08/04/2023
 RECEIVED DATE : 12/04/2023
 REPORTED DATE : 26/04/2023

TIME \ DATE	07-08/04/2023 (L_{eq})	07-08/04/2023 (L_{max})	07-08/04/2023 (L_{90})	UNIT
13:00 - 14:00 ¹³	59.7	63.6	59.0	dB(A)
14:00 - 15:00	59.0	69.8	58.2	dB(A)
15:00 - 16:00	60.6	64.8	59.9	dB(A)
16:00 - 17:00	60.6	73.1	59.9	dB(A)
17:00 - 18:00	61.3	65.0	60.5	dB(A)
18:00 - 19:00	60.8	66.7	60.3	dB(A)
19:00 - 20:00	60.9	64.9	60.5	dB(A)
20:00 - 21:00	60.4	66.2	59.9	dB(A)
21:00 - 22:00	60.9	64.4	60.3	dB(A)
22:00 - 23:00	60.9	69.7	60.3	dB(A)
23:00 - 00:00	61.2	65.1	60.7	dB(A)
00:00 - 01:00	61.7	67.2	60.8	dB(A)
01:00 - 02:00	61.2	65.4	60.4	dB(A)
02:00 - 03:00	61.2	66.6	60.4	dB(A)
03:00 - 04:00	61.5	67.3	60.6	dB(A)
04:00 - 05:00	61.6	65.7	60.6	dB(A)
05:00 - 06:00	61.8	67.8	60.8	dB(A)
06:00 - 07:00	61.5	66.0	60.5	dB(A)
07:00 - 08:00	61.3	73.5	60.4	dB(A)
08:00 - 09:00	61.0	66.4	60.2	dB(A)
09:00 - 10:00	61.2	73.4	60.3	dB(A)
10:00 - 11:00	61.1	70.2	60.2	dB(A)
11:00 - 12:00	61.1	67.7	60.0	dB(A)
12:00 - 13:00	61.2	67.1	60.2	dB(A)
L_{eq} 24 hr.	61.0	-	-	dB(A)
L_{dn}	67.7	-	-	dB(A)
Maximum	-	73.5	-	dB(A)
Standard	$70^{11}, 70^{12}$	$115^{11}, 115^{12}$	-	dB(A)

REMARK : ¹¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)¹² Notification of Ministry of the Industry Dec. 2548 (2005)* Parameter Outside The Scope of The Regulation of The Department of Industrial Works
(Measurement By Mr. Tummarut Phosakum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

¹³ Start TimeApproved By: 
(MRS. WANPEN LHAOCHINDAWAT)

26/04/2023

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

Request No. LA66-R0472

Report No. R6604-1901

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GC19
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศตะวันตก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , L_{90} & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01120946 : Class 2

SAMPLE NO. : 05772
MEASURING DATE : 08-09/04/2023
RECEIVED DATE : 12/04/2023
REPORTED DATE : 26/04/2023

TIME \ DATE	08-09/04/2023 (L_{eq})	08-09/04/2023 (L_{max})	08-09/04/2023 (L_{90})	UNIT
13:00 - 14:00 ^{1/3}	61.4	71.4	60.3	dB(A)
14:00 - 15:00	61.6	68.3	60.6	dB(A)
15:00 - 16:00	61.6	70.5	60.5	dB(A)
16:00 - 17:00	61.4	67.4	60.4	dB(A)
17:00 - 18:00	61.8	66.1	60.8	dB(A)
18:00 - 19:00	61.9	66.7	60.9	dB(A)
19:00 - 20:00	61.4	65.2	60.6	dB(A)
20:00 - 21:00	61.0	66.1	60.4	dB(A)
21:00 - 22:00	61.1	65.0	60.5	dB(A)
22:00 - 23:00	60.9	68.8	60.3	dB(A)
23:00 - 00:00	61.1	66.3	60.2	dB(A)
00:00 - 01:00	61.3	64.9	60.4	dB(A)
01:00 - 02:00	61.2	65.2	60.4	dB(A)
02:00 - 03:00	61.1	65.6	60.3	dB(A)
03:00 - 04:00	61.2	64.7	60.3	dB(A)
04:00 - 05:00	61.0	66.7	60.1	dB(A)
05:00 - 06:00	61.1	65.9	60.3	dB(A)
06:00 - 07:00	61.2	65.8	60.5	dB(A)
07:00 - 08:00	60.4	64.5	59.7	dB(A)
08:00 - 09:00	60.6	65.5	59.7	dB(A)
09:00 - 10:00	60.4	64.6	59.5	dB(A)
10:00 - 11:00	61.0	67.8	60.0	dB(A)
11:00 - 12:00	61.0	68.8	60.0	dB(A)
12:00 - 13:00	61.2	67.1	60.2	dB(A)
L_{eq} 24 hr.	61.2	-	-	dB(A)
L_{dn}	67.5	-	-	dB(A)
Maximum	-	71.4	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	$115^{1/1}, 115^{1/2}$	-	dB(A)

REMARK : ^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)^{1/2} Notification of Ministry of the Industry P.4-2544 (2005)* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Phoungkham)^{1/3} Start Time

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2023

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

Request No. LA66-R0472

Report No. R6604-1902

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GC19
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศตะวันตก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , L_{90} & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01120946 : Class 2

SAMPLE NO. : 05773
MEASURING DATE : 09-10/04/2023
RECEIVED DATE : 12/04/2023
REPORTED DATE : 26/04/2023

TIME \ DATE	09-10/04/2023 (L_{eq})	09-10/04/2023 (L_{max})	09-10/04/2023 (L_{90})	UNIT
13:00 - 14:00 ¹³	61.4	67.6	60.3	dB(A)
14:00 - 15:00	61.5	67.6	60.5	dB(A)
15:00 - 16:00	61.9	70.2	61.0	dB(A)
16:00 - 17:00	61.9	69.5	60.9	dB(A)
17:00 - 18:00	61.9	70.5	60.9	dB(A)
18:00 - 19:00	61.9	68.0	60.9	dB(A)
19:00 - 20:00	61.7	70.4	60.8	dB(A)
20:00 - 21:00	61.3	64.6	60.5	dB(A)
21:00 - 22:00	61.3	65.6	60.5	dB(A)
22:00 - 23:00	61.0	66.2	60.1	dB(A)
23:00 - 00:00	60.9	64.1	60.1	dB(A)
00:00 - 01:00	61.1	64.3	60.2	dB(A)
01:00 - 02:00	61.1	64.7	60.3	dB(A)
02:00 - 03:00	60.8	63.8	60.1	dB(A)
03:00 - 04:00	61.0	64.7	60.2	dB(A)
04:00 - 05:00	61.0	64.3	60.2	dB(A)
05:00 - 06:00	60.9	66.1	60.1	dB(A)
06:00 - 07:00	60.8	71.3	60.1	dB(A)
07:00 - 08:00	60.7	69.2	59.9	dB(A)
08:00 - 09:00	62.1	66.3	61.4	dB(A)
09:00 - 10:00	62.1	74.6	61.4	dB(A)
10:00 - 11:00	62.4	66.5	61.5	dB(A)
11:00 - 12:00	61.0	66.0	60.1	dB(A)
12:00 - 13:00	60.3	64.6	59.4	dB(A)
L_{eq} 24 hr.	61.4	-	-	dB(A)
L_{dn}	67.5	-	-	dB(A)
Maximum	-	74.6	-	dB(A)
Standard	$70^{11}, 70^{12}$	$115^{11}, 115^{12}$	-	dB(A)

REMARK : ¹¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)¹² Notification of Ministry of the Industry B.E. 2548 (2005)* Parameter Outside The Scope of The Regulation of The Department of Industrial Works
(Measurement By Mr. Tummarut Photakshum)¹³ Start Time

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-R0472

Report No. R6604-1903

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GC19
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศตะวันตก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , L_{90} & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01120946 : Class 2

SAMPLE NO. : 05774
MEASURING DATE : 10-11/04/2023
RECEIVED DATE : 12/04/2023
REPORTED DATE : 26/04/2023

TIME \ DATE	10-11/04/2023 (L_{eq})	10-11/04/2023 (L_{max})	10-11/04/2023 (L_{90})	UNIT
13:00 - 14:00 ^{/3}	60.7	75.3	59.8	dB(A)
14:00 - 15:00	60.9	65.4	59.9	dB(A)
15:00 - 16:00	60.9	74.1	60.0	dB(A)
16:00 - 17:00	61.1	73.3	60.2	dB(A)
17:00 - 18:00	61.0	70.1	60.1	dB(A)
18:00 - 19:00	60.9	66.2	60.0	dB(A)
19:00 - 20:00	61.1	65.8	60.1	dB(A)
20:00 - 21:00	60.9	64.9	60.0	dB(A)
21:00 - 22:00	60.9	64.9	60.0	dB(A)
22:00 - 23:00	60.9	65.0	60.0	dB(A)
23:00 - 00:00	60.8	65.0	60.0	dB(A)
00:00 - 01:00	61.1	65.5	60.3	dB(A)
01:00 - 02:00	61.1	64.1	60.3	dB(A)
02:00 - 03:00	61.1	65.1	60.3	dB(A)
03:00 - 04:00	61.0	65.5	60.2	dB(A)
04:00 - 05:00	61.0	65.0	60.2	dB(A)
05:00 - 06:00	61.0	66.6	60.2	dB(A)
06:00 - 07:00	60.9	65.1	60.2	dB(A)
07:00 - 08:00	60.6	66.4	59.7	dB(A)
08:00 - 09:00	59.8	64.6	58.9	dB(A)
09:00 - 10:00	60.1	75.3	59.1	dB(A)
10:00 - 11:00	60.6	72.0	59.7	dB(A)
11:00 - 12:00	60.5	65.6	59.6	dB(A)
12:00 - 13:00	60.3	64.1	59.4	dB(A)
L_{eq} 24 hr.	60.8	-	-	dB(A)
L_{dn}	67.4	-	-	dB(A)
Maximum	-	75.3	-	dB(A)
Standard	$70^{/1}, 70^{/2}$	$115^{/1}, 115^{/2}$	-	dB(A)

REMARK : ^{/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)^{/2} Notification of Ministry of the Industry B.E. 2542 (2003)* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankhum)^{/3} Start Time

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 
(MRS. WANPEN LHAOCHINDAWAT)

26/04/2023

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Request No. LA66-R0472

Report No. R6604-1904

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong 21150
SAMPLE SOURCE : GC19
SAMPLE POINT : บริเวณริมรั้วโรงงานด้านทิศตะวันตก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , L_{90} & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01120946 : Class 2

SAMPLE NO. : 05775
MEASURING DATE : 11-12/04/2023
RECEIVED DATE : 12/04/2023
REPORTED DATE : 26/04/2023

TIME \ DATE	11-12/04/2023 (L_{eq})	11-12/04/2023 (L_{max})	11-12/04/2023 (L_{90})	UNIT
13:00 - 14:00 ¹³	60.5	65.9	59.5	dB(A)
14:00 - 15:00	60.2	65.4	59.3	dB(A)
15:00 - 16:00	60.5	67.5	59.6	dB(A)
16:00 - 17:00	60.5	65.6	59.7	dB(A)
17:00 - 18:00	60.6	64.7	59.6	dB(A)
18:00 - 19:00	60.6	65.0	59.8	dB(A)
19:00 - 20:00	60.2	65.0	59.4	dB(A)
20:00 - 21:00	60.3	65.3	59.4	dB(A)
21:00 - 22:00	60.2	63.7	59.3	dB(A)
22:00 - 23:00	60.9	66.2	60.0	dB(A)
23:00 - 00:00	61.0	65.2	60.0	dB(A)
00:00 - 01:00	61.1	67.0	60.2	dB(A)
01:00 - 02:00	60.7	64.7	60.0	dB(A)
02:00 - 03:00	60.8	65.2	59.9	dB(A)
03:00 - 04:00	61.0	64.7	60.0	dB(A)
04:00 - 05:00	60.8	66.9	59.9	dB(A)
05:00 - 06:00	60.8	66.8	59.9	dB(A)
06:00 - 07:00	60.2	70.6	59.4	dB(A)
07:00 - 08:00	60.0	68.5	59.2	dB(A)
08:00 - 09:00	61.4	65.6	60.7	dB(A)
09:00 - 10:00	61.2	73.9	60.5	dB(A)
10:00 - 11:00	61.1	65.2	60.2	dB(A)
11:00 - 12:00	61.2	66.1	60.3	dB(A)
12:00 - 13:00	60.8	76.3	59.8	dB(A)
L_{eq} 24 hr.	60.7	-	-	dB(A)
L_{dn}	67.2	-	-	dB(A)
Maximum	-	76.3	-	dB(A)
Standard	$70^{11}, 70^{12}$	$115^{11}, 115^{12}$	-	dB(A)

REMARK : ¹¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)¹² Notification of Ministry of the Industry B.E. 2548 (2005)* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Phatankhum)¹³ Start Time

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6604040

Report No. 6604-0931

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE NAME : Oxidation Section
 SAMPLING DATE : 12/04/2023 SAMPLE NO. : A66040931
 RECEIVED DATE : 24/04/2023 SAMPLING TIME : 09:08-10:08
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 24/04/2023-28/04/2023
 Serial No. 218385 REPORTED DATE : 28/04/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Cumene	Sorbent Adsorption, Gas	< 0.72	245	mg/m ³
	Chromatography/NIOSH1501	< 0.15	50	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47P 731088E 1406270N

Examined By

(Miss Thanatporn Klinsopon)

28/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

28/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6604040

Report No. 6604-0932

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE NAME : Expoxidation Section
 SAMPLING DATE : 12/04/2023 SAMPLE NO. : A66040932
 RECEIVED DATE : 24/04/2023 SAMPLING TIME : 08:59-09:59
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 24/04/2023-28/04/2023
 Serial No. 218406 REPORTED DATE : 28/04/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Cumene	Sorbent Adsorption, Gas	< 0.72	245	mg/m ³
	Chromatography/NIOSH1501	< 0.15	50	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47P 731244E 1406145N

Examined By

(Miss Thanatporn Klinsopon)

28/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

28/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6604040

Report No. 6604-0933

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE NAME : Expoxidation Section
 SAMPLING DATE : 12/04/2023 SAMPLE NO. : A66040933
 RECEIVED DATE : 24/04/2023 SAMPLING TIME : 08:59-09:59
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.05 L/min TESTED DATE : 24/04/2023-28/04/2023
 Serial No. 218406 REPORTED DATE : 28/04/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Acetone	Sorbent Adsorption, Gas	< 13.17	2,400	mg/m ³
	Chromatography/NIOSH 2555	< 5.54	1,000	ppm

REMARK:^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

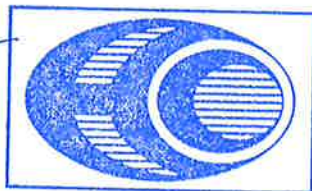
(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47P 731244E 1406145N

Examined By

(Miss Thanatporn Klinsopon)

28/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

28/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6604040

Report No. 6604-0934

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE NAME : Expoxidation Section
 SAMPLING DATE : 12/04/2023 SAMPLE NO. : A66040934
 RECEIVED DATE : 24/04/2023 SAMPLING TIME : 08:59-09:49
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 24/04/2023-05/05/2023
 Serial No. 218411 REPORTED DATE : 05/05/2023

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

REMARK:

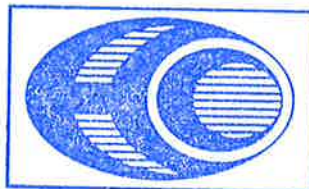
^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731244E 1406145N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsopon)

05/05/2023

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

Request No. ATR6604040

Report No. 6604-0935

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : C3-PO Purification Section
SAMPLING DATE : 12/04/2023
RECEIVED DATE : 24/04/2023
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min
Serial No. 218383

SAMPLE NO. : A66040935
SAMPLING TIME : 09:01-10:01
TESTED DATE : 24/04/2023-28/04/2023
REPORTED DATE : 28/04/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Cumene	Sorbent Adsorption, Gas	< 0.72	245	mg/m ³
	Chromatography/NIOSH1501	< 0.15	50	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47P 731204E 1406197N

Examined By

(Miss Thanatporn Klinsopon)

28/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

28/04/2023



REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
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Request No. ATR6604040

Report No. 6604-0936

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : C3-PO Purification Section
SAMPLING DATE : 12/04/2023
RECEIVED DATE : 24/04/2023
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.05 L/min
Serial No. 218403

SAMPLE NO. : A66040936
SAMPLING TIME : 09:01-10:01
TESTED DATE : 24/04/2023-28/04/2023
REPORTED DATE : 28/04/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Acetone	Sorbent Adsorption, Gas Chromatography/NIOSH 2555	< 13.17	2,400	mg/m ³
		< 5.54	1,000	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and
No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47P 731204E 1406197N

Examined By

(Miss Thanatporn Klinsoon)

28/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

28/04/2023

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

Request No. ATR6604040

Report No. 6604-0937

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE NAME : C3-PO Purification Section
 SAMPLING DATE : 12/04/2023 SAMPLE NO. : A66040937
 RECEIVED DATE : 24/04/2023 SAMPLING TIME : 09:01-09:51
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 24/04/2023-05/05/2023
 Serial No. 218445 REPORTED DATE : 05/05/2023

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

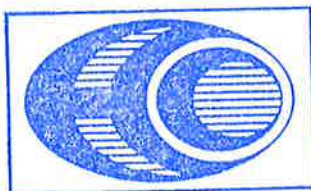
REMARK:^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731204E 1406197N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsoon)

05/05/2023

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

Request No. ATR6604040

Report No. 6604-0938

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE NAME : Hydrogenation Section
 SAMPLING DATE : 12/04/2023 SAMPLE NO. : A66040938
 RECEIVED DATE : 24/04/2023 SAMPLING TIME : 09:04-10:04
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 24/04/2023-28/04/2023
 Serial No. 218412 REPORTED DATE : 28/04/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Cumene	Sorbent Adsorption, Gas	< 0.72	245	mg/m ³
	Chromatography/NIOSH1501	< 0.15	50	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

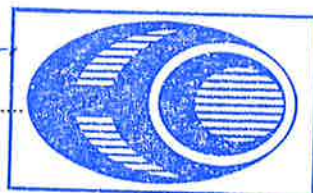
(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47P 731204E 1406213N

Examined By

(Miss Thanatporn Klinsopon)

28/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

28/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6604040

Report No. 6604-0939

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : PO Purification Section
SAMPLING DATE : 12/04/2023
RECEIVED DATE : 24/04/2023
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.05 L/min
Serial No. 218388

SAMPLE NO. : A66040939
SAMPLING TIME : 09:06-10:06
TESTED DATE : 24/04/2023-28/04/2023
REPORTED DATE : 28/04/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{1/}	UNIT
Acetone	Sorbent Adsorption, Gas	< 13.17	2,400	mg/m ³
	Chromatography/NIOSH 2555	< 5.54	1,000	ppm

REMARK:

^{1/} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47P 731136E 1406237N

Examined By

(Miss Thanatporn Klinsoon)

28/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

28/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6604040

Report No. 6604-0940

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : PO Purification Section
SAMPLING DATE : 12/04/2023 SAMPLE NO. : A66040940
RECEIVED DATE : 24/04/2023 SAMPLING TIME : 09:06-09:56
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 24/04/2023-05/05/2023
Serial No. 218388 REPORTED DATE : 05/05/2023

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

REMARK:

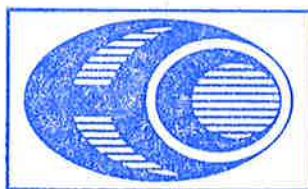
^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731136E 1406237N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsohon)

05/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6604040

Report No. 6604-0942

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : Tank Farm 1 (TK-1460)
SAMPLING DATE : 12/04/2023 SAMPLE NO. : A66040942
RECEIVED DATE : 24/04/2023 SAMPLING TIME : 09:17-10:17
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 24/04/2023-09/05/2023
Serial No. 20160502013 REPORTED DATE : 09/05/2023

PARAMETER**	TEST METHOD	RESULT	UNIT
Total Volatile Organic Compounds (TVOCs)	GC - FID	1.73	ppm

REMARK:

** Parameter not have License Registration of Department of Labour Protection and Welfare.

Sampling By Eastern Thai Consulting 1992 Co., Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co., Ltd.

GPS = Sampling at UTM 47P 730981E 1406187N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsoon)

09/05/2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6604040

Report No. 6604-0943

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : Tank Farm 2 (TK-1456)
SAMPLING DATE : 12/04/2023
RECEIVED DATE : 24/04/2023
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min
Serial No. 20150302004

SAMPLE NO. : A66040943
SAMPLING TIME : 09:20-10:20
TESTED DATE : 24/04/2023-09/05/2023
REPORTED DATE : 09/05/2023

PARAMETER**	TEST METHOD	RESULT	UNIT
Total Volatile Organic Compounds (TVOCs)	GC - FID	1.96	ppm

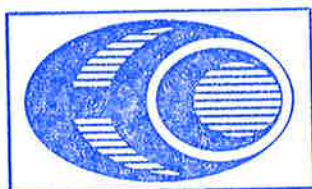
REMARK:

** Parameter not have License Registration of Department of Labour Protection and Welfare.

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731017E 1406244N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsoapon)

09/05/2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6604040

Report No. 6604-0941

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : Tank Farm 3 (TK-1693)
SAMPLING DATE : 12/04/2023 SAMPLE NO. : A66040941
RECEIVED DATE : 24/04/2023 SAMPLING TIME : 09:15-10:15
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 24/04/2023-09/05/2023
Serial No. 20150302005 REPORTED DATE : 09/05/2023

PARAMETER**	TEST METHOD	RESULT	UNIT
Total Volatile Organic Compounds (TVOCs)	GC - FID	1.40	ppm

REMARK:

** Parameter not have License Registration of Department of Labour Protection and Welfare.

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731342E 1406131N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsoon)

09/05/2023

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Request No. ATR6604040

Report No. 6604-0944

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : Tank Farm 4 (TK-5402)
SAMPLING DATE : 12/04/2023 SAMPLE NO. : A66040944
RECEIVED DATE : 24/04/2023 SAMPLING TIME : 09:25-10:25
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 24/04/2023-09/05/2023
Serial No. 20180903076 REPORTED DATE : 09/05/2023

PARAMETER**	TEST METHOD	RESULT	UNIT
Total Volatile Organic Compounds (TVOCs)	GC - FID	1.57	ppm

REMARK:

** Parameter not have License Registration of Department of Labour Protection and Welfare.

Sampling By Eastern Thai Consulting 1992 Co., Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co., Ltd.

GPS = Sampling at UTM 47P 730961E 1406269N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Examined By.....

(Miss Thanatporn Klinsopon)

09/05/2023

Request No. ATR6604040

Report No. 6604-0945

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : พนักงานปฏิบัติงานในพื้นที่เสี่ยงในกระบวนการผลิต (คุณธีระเดช แสงเดช)
SAMPLING DATE : 12/04/2023 SAMPLE NO. : A66040945
RECEIVED DATE : 24/04/2023 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.01 L/min TESTED DATE : 24/04/2023-05/05/2023
Serial No. 218432 REPORTED DATE : 05/05/2023

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

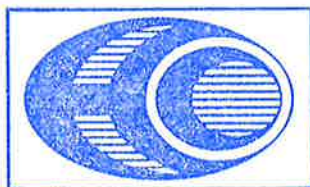
REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsoon)

05/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6604040

Report No. 6604-0946

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : พนักงานปฏิบัติงานในพื้นที่เสี่ยงในกระบวนการผลิต (คุณชัยพฤกษ์ วิริญโท)
SAMPLING DATE : 12/04/2023 SAMPLE NO. : A66040946
RECEIVED DATE : 24/04/2023 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.01 L/min TESTED DATE : 24/04/2023-05/05/2023
Serial No. 218413 REPORTED DATE : 05/05/2023

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsoapon)

05/05/2023

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Request No. ATR6604040

Report No. 6604-0947

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : พนักงานปฏิบัติงานในพื้นที่เสี่ยงในกระบวนการผลิต (คุณเจริญพงษ์ เกษโต)
SAMPLING DATE : 12/04/2023 SAMPLE NO. : A66040947
RECEIVED DATE : 24/04/2023 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.01 L/min TESTED DATE : 24/04/2023-05/05/2023
Serial No. 218402 REPORTED DATE : 05/05/2023

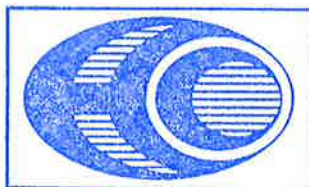
PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

REMARK:^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsopon)

05/05/2023

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Request No. ATR6604040

Report No. 6604-0948

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : พนักงานปฏิบัติงานในพื้นที่เสี่ยงในกระบวนการผลิต (คุณวิจิตร เทิงสูงเนิน)
SAMPLING DATE : 12/04/2023 SAMPLE NO. : A66040948
RECEIVED DATE : 24/04/2023 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.01 L/min TESTED DATE : 24/04/2023-05/05/2023
Serial No. 218444 REPORTED DATE : 05/05/2023

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsoon)

05/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6604040

Report No. 6604-0949

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE NAME : พนักงานปฏิบัติงานในพื้นที่เสี่ยงในกระบวนการผลิต (คุณนวกาศย์ แสงสุรินทร์)
 SAMPLING DATE : 12/04/2023 SAMPLE NO. : A66040949
 RECEIVED DATE : 24/04/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.01 L/min TESTED DATE : 24/04/2023-05/05/2023
 Serial No. 218408 REPORTED DATE : 05/05/2023

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

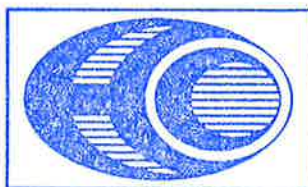
REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsopon)

05/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6607008

Report No. 6607-0097

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : Oxidation Section
SAMPLING DATE : 29/06/2023 SAMPLE NO. : A66070097
RECEIVED DATE : 04/07/2023 SAMPLING TIME : 10:12-11:12
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 04/07/2023-06/07/2023
Serial No. 20211103003 REPORTED DATE : 06/07/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{1/}	UNIT
Cumene	Sorbent Adsorption, Gas	< 0.72	245	mg/m ³
	Chromatography/NIOSH1501	< 0.15	50	ppm

REMARK:

^{1/} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47P 731088E 1406270N

Examined By

(Miss Thanatporn Klinsopon)

06/07/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

06/07/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6607008

Report No. 6607-0098

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : Expoxidation Section
SAMPLING DATE : 29/06/2023 SAMPLE NO. : A66070098
RECEIVED DATE : 04/07/2023 SAMPLING TIME : 10:00-11:00
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 04/07/2023-06/07/2023
Serial No. 218411 REPORTED DATE : 06/07/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{1/}	UNIT
Cumene	Sorbent Adsorption, Gas	< 0.72	245	mg/m ³
	Chromatography/NIOSH1501	< 0.15	50	ppm

REMARK:

^{1/} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and
No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47P 731244E 1406145N

Examined By

(Miss Thanatporn Klinsopon)

06/07/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

06/07/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6607008

Report No. 6607-0099

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE NAME : Expoxidation Section
 SAMPLING DATE : 29/06/2023 SAMPLE NO. : A66070099
 RECEIVED DATE : 04/07/2023 SAMPLING TIME : 10:00-11:00
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.05 L/min TESTED DATE : 04/07/2023-06/07/2023
 Serial No. 218411 REPORTED DATE : 06/07/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{1/}	UNIT
Acetone	Sorbent Adsorption, Gas	< 13.17	2,400	mg/m ³
	Chromatography/NIOSH 2555	< 5.54	1,000	ppm

REMARK:

^{1/} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

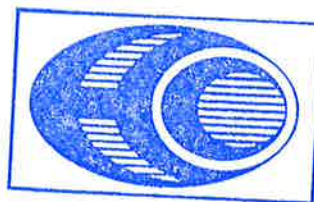
(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47P 731244E 1406145N

Examined By

(Miss Thanatporn Klinsopon)

06/07/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

06/07/2023

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Request No. ATR6607008

Report No. 6607-0100

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : Expoxidation Section
SAMPLING DATE : 29/06/2023 SAMPLE NO. : A66070100
RECEIVED DATE : 04/07/2023 SAMPLING TIME : 10:00-10:50
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 04/07/2023-10/07/2023
Serial No. 218411 REPORTED DATE : 10/07/2023

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

REMARK:^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731244E 1406145N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Thanatporn Klinsohon)

10/07/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6607008

Report No. 6607-0101

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE NAME : C3-PO Purification Section
 SAMPLING DATE : 29/06/2023 SAMPLE NO. : A66070101
 RECEIVED DATE : 04/07/2023 SAMPLING TIME : 10:05-11:05
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 04/07/2023-06/07/2023
 Serial No. 218391 REPORTED DATE : 06/07/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{1/}	UNIT
Cumene	Sorbent Adsorption, Gas	< 0.72	245	mg/m ³
	Chromatography/NIOSH1501	< 0.15	50	ppm

REMARK:^{1/} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

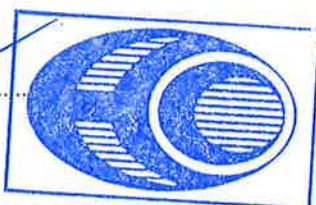
(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47P 731204E 1406197N

Examined By

(Miss Thanatporn Klinsopon)

06/07/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By

(Mr. Kawee Suthasub)

06/07/2023

Request No. ATR6607008

Report No. 6607-0102

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : C3-PO Purification Section
SAMPLING DATE : 29/06/2023
RECEIVED DATE : 04/07/2023
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.05 L/min
Serial No. 218391

SAMPLE NO. : A66070102
SAMPLING TIME : 10:05-11:05
TESTED DATE : 04/07/2023-06/07/2023
REPORTED DATE : 06/07/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Acetone	Sorbent Adsorption, Gas Chromatography/NIOSH 2555	< 13.17	2,400	mg/m ³
		< 5.54	1,000	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and
No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47P 731204E 1406197N

Examined By

(Miss Thanatporn Klinsoon)

06/07/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

06/07/2023

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Request No. ATR6607008

Report No. 6607-0103

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : C3-PO Purification Section
SAMPLING DATE : 29/06/2023
RECEIVED DATE : 04/07/2023
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min
Serial No. 218391

SAMPLE NO. : A66070103
SAMPLING TIME : 10:05-10:55
TESTED DATE : 04/07/2023-10/07/2023
REPORTED DATE : 10/07/2023

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731204E 1406197N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Thanatporn Klinsopon)

10/07/2023

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Request No. ATR6607008

Report No. 6607-0104

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE NAME : Hydrogenation Section
 SAMPLING DATE : 29/06/2023 SAMPLE NO. : A66070104
 RECEIVED DATE : 04/07/2023 SAMPLING TIME : 10:06-11:06
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 04/07/2023-06/07/2023
 Serial No. 20200403064 REPORTED DATE : 06/07/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Cumene	Sorbent Adsorption, Gas	< 0.72	245	mg/m ³
	Chromatography/NIOSH1501	< 0.15	50	ppm

REMARK:^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

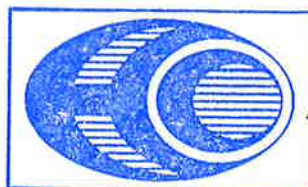
(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47P 731204E 1406213N

Examined By

(Miss Thanatporn Klinsopon)

06/07/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

06/07/2023

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Request No. ATR6607008

Report No. 6607-0105

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : PO Purification Section
SAMPLING DATE : 29/06/2023
RECEIVED DATE : 04/07/2023
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.05 L/min
Serial No. 218383

SAMPLE NO. : A66070105
SAMPLING TIME : 10:08-11:08
TESTED DATE : 04/07/2023-06/07/2023
REPORTED DATE : 06/07/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Acetone	Sorbent Adsorption, Gas	< 13.17	2,400	mg/m ³
	Chromatography/NIOSH 2555	< 5.54	1,000	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47P 731136E 1406237N

Examined By

(Miss Thanatporn Klinsopon)

06/07/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

06/07/2023

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Request No. ATR6607008

Report No. 6607-0106

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE NAME : PO Purification Section
 SAMPLING DATE : 29/06/2023 SAMPLE NO. : A66070106
 RECEIVED DATE : 04/07/2023 SAMPLING TIME : 10:08-10:58
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 04/07/2023-10/07/2023
 Serial No. 218383 REPORTED DATE : 10/07/2023

PARAMETER**	TEST METHOD	RESULT ²	STD ¹	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

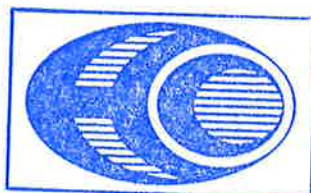
REMARK:¹ Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.² ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731136E 1406237N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsoon)

10/07/2023

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Request No. ATR6607008

Report No. 6607-0107

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : Tank Farm 1 (TK-1460)
SAMPLING DATE : 29/06/2023 SAMPLE NO. : A66070107
RECEIVED DATE : 04/07/2023 SAMPLING TIME : 10:21-11:21
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 04/07/2023-12/07/2023
Serial No. 20100401021 REPORTED DATE : 12/07/2023

PARAMETER**	TEST METHOD	RESULT	UNIT
Total Volatile Organic Compounds (TVOCs)	GC - FID	2.25	ppm

REMARK:

** Parameter not have License Registration of Department of Labour Protection and Welfare.

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 730981E 1406187N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsoyon)

12/07/2023

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Request No. ATR6607008

Report No. 6607-0110

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : Tank Farm 2 (TK-1456)
SAMPLING DATE : 29/06/2023 SAMPLE NO. : A66070110
RECEIVED DATE : 04/07/2023 SAMPLING TIME : 10:25-11:25
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 04/07/2023-12/07/2023
Serial No. 20100401018 REPORTED DATE : 12/07/2023

PARAMETER**	TEST METHOD	RESULT	UNIT
Total Volatile Organic Compounds (TVOCs)	GC - FID	2.45	ppm

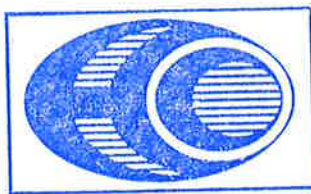
REMARK:

** Parameter not have License Registration of Department of Labour Protection and Welfare.

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731017E 1406244N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By...

(Miss Thanatporn Klinsopon)

12/07/2023

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Request No. ATR6607008

Report No. 6607-0108

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : Tank Farm 3 (TK-1693)
SAMPLING DATE : 29/06/2023 SAMPLE NO. : A66070108
RECEIVED DATE : 04/07/2023 SAMPLING TIME : 09:50-10:50
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 04/07/2023-12/07/2023
Serial No. 20100401022 REPORTED DATE : 12/07/2023

PARAMETER**	TEST METHOD	RESULT	UNIT
Total Volatile Organic Compounds (TVOCs)	GC - FID	2.15	ppm

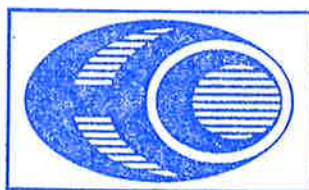
REMARK:

** Parameter not have License Registration of Department of Labour Protection and Welfare.

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 731342E 1406131N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsohon)

12/07/2023

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Request No. ATR6607008

Report No. 6607-0109

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC 19
 SAMPLE NAME : Tank Farm 4 (TK-5402)
 SAMPLING DATE : 29/06/2023 SAMPLE NO. : A66070109
 RECEIVED DATE : 04/07/2023 SAMPLING TIME : 10:16-11:16
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.20 L/min TESTED DATE : 04/07/2023-12/07/2023
 Serial No. 20150302001 REPORTED DATE : 12/07/2023

PARAMETER**	TEST METHOD	RESULT	UNIT
Total Volatile Organic Compounds (TVOCs)	GC - FID	2.38	ppm

REMARK:

** Parameter not have License Registration of Department of Labour Protection and Welfare.

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.

GPS = Sampling at UTM 47P 730961E 1406269N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By...

(Miss Thanatporn Klinsopon)

12/07/2023

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Request No. ATR6607008

Report No. 6607-0111

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : พนักงานปฏิบัติงานในพื้นที่เสี่ยงในกระบวนการผลิต (คุณสมบัติ คำภาพงษ์)
SAMPLING DATE : 29/06/2023 SAMPLE NO. : A66070111
RECEIVED DATE : 04/07/2023 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.01 L/min TESTED DATE : 04/07/2023-10/07/2023
Serial No. 218412 REPORTED DATE : 10/07/2023

PARAMETER**	TEST METHOD	RESULT ²	STD ¹	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

REMARK:

¹ Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.² ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsoapon)

10/07/2023

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Request No. ATR6607008

Report No. 6607-0112

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : พนักงานปฏิบัติงานในพื้นที่เสี่ยงในกระบวนการผลิต (คุณจตุรงค์ แสงกระจ่าง)
SAMPLING DATE : 29/06/2023 SAMPLE NO. : A66070112
RECEIVED DATE : 04/07/2023 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.01 L/min TESTED DATE : 04/07/2023-10/07/2023
Serial No. 218388 REPORTED DATE : 10/07/2023

PARAMETER**	TEST METHOD	RESULT ²	STD ¹	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

REMARK:¹ Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.² ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsoyon)

10/07/2023

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

Request No. ATR6607008

Report No. 6607-0113

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : พนักงานปฏิบัติงานในพื้นที่เสี่ยงในกระบวนการผลิต (คุณนารากร สุดสายตา)
SAMPLING DATE : 29/06/2023 SAMPLE NO. : A66070113
RECEIVED DATE : 04/07/2023 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.01 L/min TESTED DATE : 04/07/2023-10/07/2023
Serial No. 218406 REPORTED DATE : 10/07/2023

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

REMARK:^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.^{/2} ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsopon)

10/07/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6607008

Report No. 6607-0114

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : พนักงานปฏิบัติงานในพื้นที่เสี่ยงในกระบวนการผลิต (คุณภาพวัฒน์ อินนังแก่น)
SAMPLING DATE : 29/06/2023 SAMPLE NO. : A66070114
RECEIVED DATE : 04/07/2023 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.01 L/min TESTED DATE : 04/07/2023-10/07/2023
Serial No. 218444 REPORTED DATE : 10/07/2023

PARAMETER**	TEST METHOD	RESULT ²	STD ¹	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	ND	240	mg/m ³
		ND	100	ppm

REMARK:

¹ Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.² ND = Non detectable : When detection limit of Propylene Oxide is less than 0.10 mg/m³ or 0.05 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsoon)

10/07/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6607008

Report No. 6607-0115

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC 19
SAMPLE NAME : พนักงานปฏิบัติงานในพื้นที่เสี่ยงในกระบวนการผลิต (คุณเจริญพงษ์ เกตุใส)
SAMPLING DATE : 29/06/2023 SAMPLE NO. : A66070115
RECEIVED DATE : 04/07/2023 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.01 L/min TESTED DATE : 04/07/2023-10/07/2023
Serial No. 218432 REPORTED DATE : 10/07/2023

PARAMETER**	TEST METHOD	RESULT	STD ¹	UNIT
Propylene Oxide	NIOSH 1612/GC-FID	0.41	240	mg/m ³
		0.17	100	ppm

REMARK:¹ Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008

Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr, Suttha Songthaninai)

Analysed By SECOT Co.,Ltd.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsopon)

10/07/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA66-R0468

Report No. R6604-1829

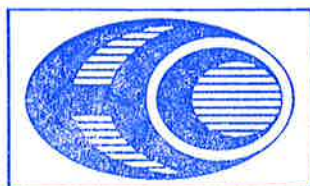
TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 12
 ADDRESS : 8, I-10 Road, Mab Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong 21150
 SAMPLE SOURCE : GC12-Polyethylene Plant
 SAMPLE POINT : Air Compressors
 PARAMETER* : L_{eq} 1 hr., L_{eq} 12 hr. & L_{max} SAMPLE NO. : 05699
 DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 12/04/2023
 INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 12/04/2023
 S/N 00322755 : Class 2 REPORTED DATE : 26/04/2023

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
09:10-10:10	86.2	89.0	dB(A)
10:10-11:10	86.3	89.2	dB(A)
11:10-12:10	86.1	88.3	dB(A)
12:10-13:10	85.8	88.5	dB(A)
13:10-14:10	85.2	88.0	dB(A)
14:10-15:10	85.5	88.0	dB(A)
15:10-16:10	85.7	106.9	dB(A)
16:10-17:10	62.9	67.6	dB(A)
17:10-18:10	63.0	65.1	dB(A)
18:10-19:10	66.6	95.0	dB(A)
19:10-20:10	71.9	95.7	dB(A)
20:10-21:10	70.3	95.1	dB(A)
L_{eq} 12 hr.	83.6	—	dB(A)
Standard	$87^{/1}$	$140^{/1}, 115^{/2}$	dB(A)

REMARK : ^{/1} Notification of The Ministry of Industry B.E. 2546 (2003)^{/2} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Measurement By Ms. Savita Kittinoavarat



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2023

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Request No. LA66-R0468

Report No. R6604-1830

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 12
ADDRESS : 8, I-10 Road, Mab Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong 21150
SAMPLE SOURCE : GC19
SAMPLE POINT : C3 Recycle Compressors
PARAMETER* : L_{eq} 1 hr., L_{eq} 12 hr. & L_{max} SAMPLE NO. : 05700
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 12/04/2023
INSTRUMENT : Integrated Sound Level Meter ; RECEIVED DATE : 12/04/2023
S/N 00322750 : Class 2 REPORTED DATE : 26/04/2023

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
09:15-10:15	88.3	88.8	dB(A)
10:15-11:15	88.3	88.9	dB(A)
11:15-12:15	88.3	93.2	dB(A)
12:15-13:15	88.3	89.0	dB(A)
13:15-14:15	88.3	89.0	dB(A)
14:15-15:15	88.3	88.9	dB(A)
15:15-16:15	87.0	105.6	dB(A)
16:15-17:15	62.4	67.9	dB(A)
17:15-18:15	62.6	66.5	dB(A)
18:15-19:15	68.6	98.0	dB(A)
19:15-20:15	73.0	97.1	dB(A)
20:15-21:15	71.0	97.3	dB(A)
L_{eq} 12 hr.	85.8	—	dB(A)
Standard	$87^{/1}$	$140^{/1}, 115^{/2}$	dB(A)

REMARK : ^{/1} Notification of The Ministry of Industry B.E. 2546 (2003)^{/2} Regulation of The Ministry of Labour B.E. 2559 (2016)

* Measurement By Ms. Savita Kittinoavarat



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2023

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Request No. LA66-R0468

Report No. R6604-1821

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC19
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (คุณธีระเดช แสงเดช ID 26008020)
 MEASURING DATE : 12/04/2023 SAMPLE NO. : 05691
 RECEIVED DATE : 12/04/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1365 REPORTED DATE : 26/04/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	73.2	83 ^{/1}	dB(A)
L _{max} 12 hr	90.4	115 ^{/3}	dB(A)
12 Hour dose	10.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	75.0	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2023

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Request No. LA66-R0457

Report No. R6604-1426

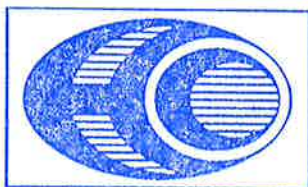
TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC19
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (จุดกึ่งกลาง นุ่มนึ่ง ID 26008019)
 MEASURING DATE : 18/04/2023 SAMPLE NO. : 05289
 RECEIVED DATE : 19/04/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0958 REPORTED DATE : 26/04/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	65.8	83 ^{/1}	dB(A)
L _{max} 12 hr	88.9	115 ^{/3}	dB(A)
12 Hour dose	1.80	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	67.6	85 ^{/1}	dB(A)

REMARK :

^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2023

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Request No. LA66-R0497

Report No. R6604-3325

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC19
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (ถนนวิระวาร ฮอร์คสังข์ ID 26008182)
MEASURING DATE : 26/04/2023 SAMPLE NO. : 07152
RECEIVED DATE : 26/04/2023 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0958 REPORTED DATE : 29/04/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	76.9	83 ^{/1}	dB(A)
L _{max} 12 hr	101.8	115 ^{/3}	dB(A)
12 Hour dose	23.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	78.6	85 ^{/1}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Pornnapa Phongphet)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

29/04/2023

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Request No. LA66-R0457

Report No. R6604-1425

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC19
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณวัฒน์ชัย สุวรรณเมฆ ID 26008185)
 MEASURING DATE : 18/04/2023 SAMPLE NO. : 05288
 RECEIVED DATE : 19/04/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0954 REPORTED DATE : 26/04/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	81.9	83 ^{/1}	dB(A)
L _{max} 12 hr	98.4	115 ^{/3}	dB(A)
12 Hour dose	74.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	83.7	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....



(MRS. WANPEN LHAOCHINDAWAT)

26/04/2023

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Request No. LA66-R0457

Report No. R6604-1427

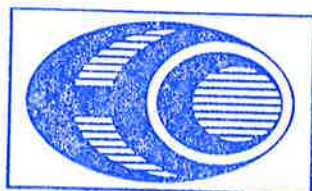
TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC19
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณอรรถโกวิท สิงห์โตทอง ID 26008184)
 MEASURING DATE : 18/04/2023 SAMPLE NO. : 05290
 RECEIVED DATE : 19/04/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CA8889 REPORTED DATE : 26/04/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	78.2	83 ^{/1}	dB(A)
L _{max} 12 hr	95.1	115 ^{/3}	dB(A)
12 Hour dose	31.20	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	79.9	85 ^{/1}	dB(A)

REMARK :

^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2023

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Request No. LA66-R0468

Report No. R6604-1825

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
SAMPLE SOURCE : GC19
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (คุณนงนภักดิ์ แสงสุรินทร์ ID 26008183)
MEASURING DATE : 12/04/2023 SAMPLE NO. : 05695
RECEIVED DATE : 12/04/2023 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB1500 REPORTED DATE : 26/04/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	72.8	83 ^{/1}	dB(A)
L _{max} 12 hr	87.5	115 ^{/3}	dB(A)
12 Hour dose	9.00	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	74.5	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Ms. Savita Kittinoavarat)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2023

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Request No. LA66-R0457

Report No. R6604-1424

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC19
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (คุณสรายุทธ วิลังคะ ID 26008174)
 MEASURING DATE : 19/04/2023 SAMPLE NO. : 05287
 RECEIVED DATE : 19/04/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0955 REPORTED DATE : 26/04/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	62.8	83 ^{/1}	dB(A)
L _{max} 12 hr	88.0	115 ^{/3}	dB(A)
12 Hour dose	0.90	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	64.5	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- ^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- ^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
- [#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
- * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

26/04/2023

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Request No. LA66-R0485

Report No. R6604-2693

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC19
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณภาพวัสดุ อินนิงแท่น ID 26008189)
 MEASURING DATE : 24/04/2023 SAMPLE NO. : 06573
 RECEIVED DATE : 24/04/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0955 REPORTED DATE : 28/04/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	51.7	83 ^{/1}	dB(A)
L _{max} 12 hr	76.8	115 ^{/3}	dB(A)
12 Hour dose	0.07	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	53.5	85 ^{/1}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

28/04/2023

Request No. LA66-R0485

Report No. R6604-2692

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC19
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณอริคม แก้วพวง ID 26008191)
 MEASURING DATE : 24/04/2023 SAMPLE NO. : 06572
 RECEIVED DATE : 24/04/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0954 REPORTED DATE : 28/04/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	57.2	83 ^{/1}	dB(A)
L _{max} 12 hr	76.8	115 ^{/3}	dB(A)
12 Hour dose	0.25	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	59.0	85 ^{/1}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

28/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA66-R0485

Report No. R6604-2694

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC19
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณสมบัติ ค่าพียง ID 26008172)
 MEASURING DATE : 24/04/2023 SAMPLE NO. : 06574
 RECEIVED DATE : 24/04/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0956 REPORTED DATE : 28/04/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	74.2	83 ^{/1}	dB(A)
L _{max} 12 hr	94.3	115 ^{/3}	dB(A)
12 Hour dose	12.40	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	75.9	85 ^{/1}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

28/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-R0485

Report No. R6604-2695

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC19
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (จุดตรวจวัด แสงกระจ่าง ID 26008173)
 MEASURING DATE : 24/04/2023 SAMPLE NO. : 06575
 RECEIVED DATE : 24/04/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0957 REPORTED DATE : 28/04/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	81.7	83 ^{/1}	dB(A)
L _{max} 12 hr	97.3	115 ^{/3}	dB(A)
12 Hour dose	70.70	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	83.5	85 ^{/1}	dB(A)

REMARK : ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

28/04/2023

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Request No. LA66-R0485

Report No. R6604-2696

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 19
 ADDRESS : Noen Phra Sub-district, Mueang Rayong District, Rayong, 21150
 SAMPLE SOURCE : GC19
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (ถนนรากร สูดสายดา ID 26008186)
 MEASURING DATE : 24/04/2023 SAMPLE NO. : 06576
 RECEIVED DATE : 24/04/2023 SAMPLING TIME : 07:00-19:00
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0958 REPORTED DATE : 28/04/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) [#]	52.3	83 ^{/1}	dB(A)
L _{max} 12 hr	75.9	115 ^{/3}	dB(A)
12 Hour dose	0.08	100 ^{/2}	%
Time weighted average level (8-hr TWA) [#]	54.0	85 ^{/1}	dB(A)

REMARK :

- ^{/1} Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
^{/2} Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
^{/3} Regulation of The Ministry of Labour B.E. 2559 (2016)
[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate
 * Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009
 (Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

28/04/2023

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