

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

ผลการทดสอบคุณภาพอากาศในบรรยากาศ

ช่วงระหว่างการก่อสร้าง

Request No. ATR6602009

Report No. 6602-0135 - 6602-0141

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch17  
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE NAME : บริเวณพื้นที่ก่อสร้างบ่อพักน้ำ  
 RECEIVED DATE : 10/02/2023 SAMPLE NO. : A66020135 - A66020141  
 TESTED DATE : 10/02/2023-15/02/2023 REPORTED DATE : 17/02/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>/1</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	01-02/02/2023	0.180	0.33	mg/m <sup>3</sup>
		02-03/02/2023	0.062	0.33	mg/m <sup>3</sup>
		03-04/02/2023	0.091	0.33	mg/m <sup>3</sup>
		04-05/02/2023	0.041	0.33	mg/m <sup>3</sup>
		05-06/02/2023	0.041	0.33	mg/m <sup>3</sup>
		06-07/02/2023	0.030	0.33	mg/m <sup>3</sup>
		07-08/02/2023	0.060	0.33	mg/m <sup>3</sup>

## REMARK:

<sup>/1</sup> 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. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Thanatporn Klinsopon)

17/02/2023

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

Request No. ATR6602009

Report No. 6602-0142 - 6602-0148

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch17  
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE NAME : โรงเรียนบ้านหนองแพบ  
 RECEIVED DATE : 10/02/2023 SAMPLE NO. : A66020142 - A66020148  
 TESTED DATE : 10/02/2023-15/02/2023 REPORTED DATE : 17/02/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>1/</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	01-02/02/2023	0.199	0.33	mg/m <sup>3</sup>
		02-03/02/2023	0.089	0.33	mg/m <sup>3</sup>
		03-04/02/2023	0.069	0.33	mg/m <sup>3</sup>
		04-05/02/2023	0.037	0.33	mg/m <sup>3</sup>
		05-06/02/2023	0.039	0.33	mg/m <sup>3</sup>
		06-07/02/2023	0.037	0.33	mg/m <sup>3</sup>
		07-08/02/2023	0.040	0.33	mg/m <sup>3</sup>

## REMARK:

<sup>1/</sup> 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. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsopon)

17/02/2023

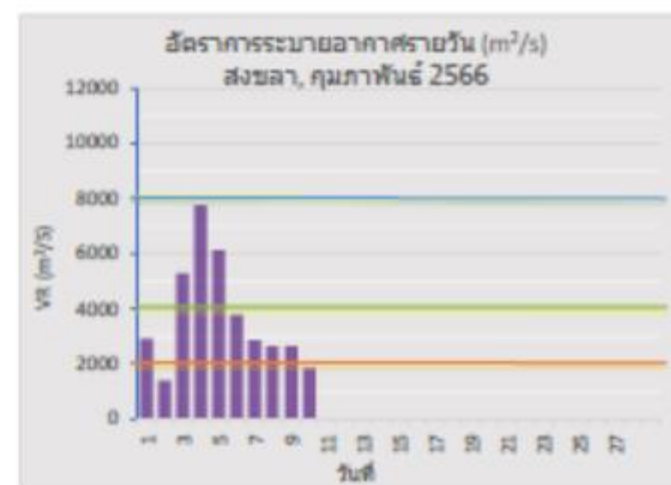
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
 WITHOUT THE WRITTEN APPROVAL LABORATORY

ข้อมูลจากกรมอุตุนิยมวิทยา



# คำอธิบายแนวโน้มการระบายอากาศ

เดือนกุมภาพันธ์ 2566



# สรุปลักษณะการระบายอากาศ

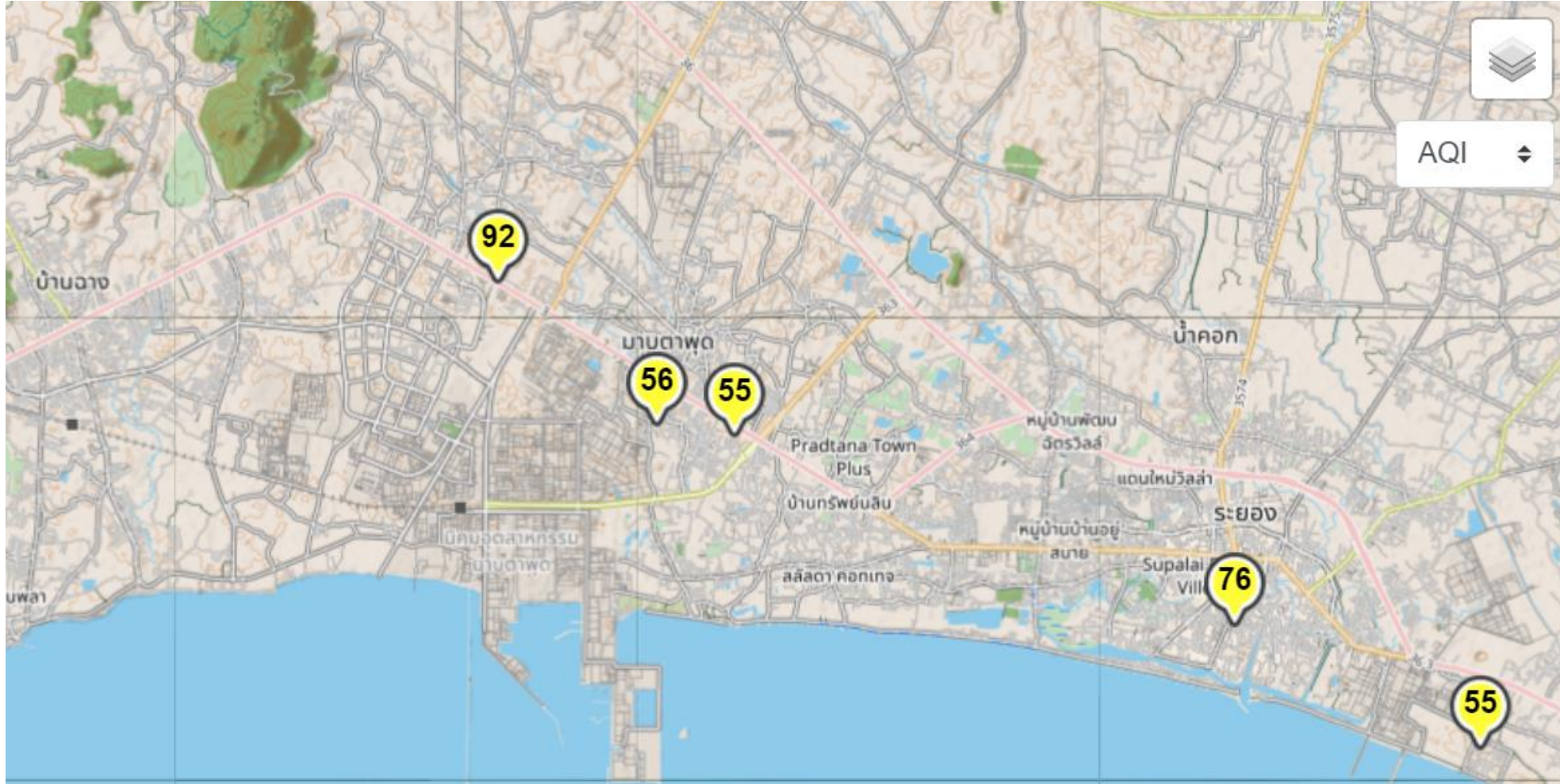
ภาคเหนือ	วันที่ 1-10 ก.พ. อัตราระบายอากาศอยู่ในเกณฑ์ "ไม่ดี/อ่อน"
ภาคตะวันออกเฉียงเหนือ	วันที่ 1-10 ก.พ. อัตราระบายอากาศอยู่ในเกณฑ์ "ไม่ดี/อ่อน" ยกเว้นวันที่ 8 ก.พ.อยู่ในเกณฑ์ "ดี"
ภาคกลาง	วันที่ 1-2 ก.พ. อัตราระบายอากาศอยู่ในเกณฑ์ "ไม่ดี" ส่วนวันที่ 3-5, 8-10 ก.พ.อยู่ในเกณฑ์ "อ่อน" และวันที่ 6-7 ก.พ.อยู่ในเกณฑ์ "ดี"
กรุงเทพมหานครและปริมณฑล	วันที่ 1 ก.พ. อัตราระบายอากาศอยู่ในเกณฑ์ "ไม่ดี" ส่วนวันที่ 2-4 ก.พ.อยู่ในเกณฑ์ "อ่อน" และวันที่ 5-10 ก.พ.อยู่ในเกณฑ์ "ดี"
ภาคตะวันออก	วันที่ 1-4 ก.พ. อัตราระบายอากาศอยู่ในเกณฑ์ "ไม่ดี" ส่วนวันที่ 5-10 ก.พ.อยู่ในเกณฑ์ "อ่อน"
ภาคใต้	วันที่ 1, 7-9 ก.พ. อัตราระบายอากาศอยู่ในเกณฑ์ "อ่อน" ส่วนวันที่ 2, 10 ก.พ.อยู่ในเกณฑ์ "ไม่ดี" และวันที่ 3-5 ก.พ.อยู่ในเกณฑ์ "ดี"
**หมายเหตุ** ถึงแม้การระบายอากาศอ่อนหรือไม่ดีในบางพื้นที่ แต่หากมีฝนตกเป็นบริเวณกว้าง มักทำให้ค่า PM2.5 ลดลงได้ ถือเป็นปัจจัยบวกต่อคุณภาพอากาศ	

อัตราการระบายอากาศ : เป็นค่าที่บอกความสามารถในการเคลื่อนที่ของอากาศทั้งแนวราบ และแนวตั้ง หรือผลคูณของความเร็วลมกับความสูงของชั้นอากาศใกล้ผิวพื้นโลก โดยหากค่าอัตราการระบายอากาศเพิ่มขึ้น ถือเป็นปัจจัยบวกที่ทำให้คุณภาพอากาศดีขึ้น (ค่าความเข้มข้น PM2.5 ลดลง) ในทางกลับกัน หากอัตราการระบายอากาศลดลง มักส่งผลให้คุณภาพอากาศลดลง (ค่าความเข้มข้น PM2.5 เพิ่มขึ้น) ทั้งนี้ ยังมีปัจจัยอื่นๆที่ส่งผลต่อค่าความเข้มข้นของ PM2.5 อย่างมีนัยสำคัญได้แก่ ฝน และกิจกรรมของมนุษย์

ความหมายอัตราการระบายอากาศ (Ventilation Rate, m <sup>2</sup> /s)		
> 16000	ดีที่สุด (Excellent)	อากาศไม่มีเสถียรภาพ อมแรง การระบายในที่โล่งด้วยความระมัดระวัง ส่งผลกระทบน้อย
8000-16000	ดีมาก (Very Good)	การระบายในที่โล่ง ส่งผลกระทบน้อย
4000-8000	ดี (Good)	การระบายในที่โล่ง ในเวลากลางวันเมื่ออากาศมีการรอกตัว ส่งผลกระทบบานกลาง
2000-4000	อ่อน (Fair)	การระบายในที่โล่ง ก่อน 11.00 น. และหลัง 16.00 น. ส่งผลกระทบน้อย
< 2000	ไม่ดี (Poor)	การระบายในที่โล่ง ส่งผลกระทบต่อคุณภาพอากาศมาก

ข้อมูลจากกรมควบคุมมลพิษ

## สถานีตรวจวัดของกรมควบคุมมลพิษในจังหวัดระยอง



92 = สถานี 31t ตำบลห้วยโป่ง อำเภอเมือง จังหวัดระยอง

55 = สถานี 74t ตำบลเนินพระ อำเภอเมือง จังหวัดระยอง

56 = สถานี 29t ตำบลมาบตาพุด อำเภอเมือง จังหวัดระยอง

<http://air4thai.pcd.go.th/webV3/#/History>

## ข้อมูลย้อนหลัง

รายชั่วโมง

รายวัน

รายเดือน

รายปี

ภาคตะวันออก

เลือกอยู่ 3 สถานี

☒ PM<sub>2.5</sub> ☒ PM<sub>10</sub> ☐ O<sub>3</sub> ☐ CO ☐ NO<sub>2</sub> ☐ SO<sub>2</sub> ☐ ความเร็วลม ☐ ทิศทางลม ☐ อุณหภูมิ ☐ ความชื้นสัมพัทธ์  
☐ ความกดอากาศ ☐ ปริมาณน้ำฝน

วันที่เริ่มต้น

1 ก.พ. 2566

10:00

>

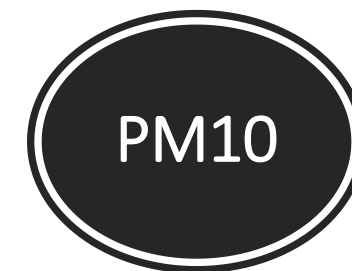
วันที่สิ้นสุด

2 ก.พ. 2566

10:00

ตรวจสอบ →

	29t	31t	74t
ค่าสูงสุด	172	-	133
ค่าน้อยสุด	49	-	80
ค่าเฉลี่ย	122.68	-	105.68
จำนวนที่เก็บค่าได้	25	0	25
จำนวนชั่วโมงทั้งหมด	25	25	25
เปอร์เซ็นต์การเก็บค่าได้	100	0	100



ระหว่างวันที่ 1-2 กุมภาพันธ์ 2566



วันที่เริ่มต้น

1 ก.พ. 2566

10:00



วันที่สิ้นสุด

8 ก.พ. 2566

10:00

ตรวจสอบ →

PM<sub>2.5</sub>

PM<sub>10</sub>

PM<sub>10</sub>

ความเข้มข้น (µg/m<sup>3</sup>)

200

150

100

50

0



● 29t (โรงพยาบาลส่งเสริมสุขภาพตำบลมามดาทุต ต.มามดาทุต อ.เมือง, ระยอง)

◆ 31t (ศูนย์วิจัยพืชไร่ระยอง ต.ท้ายโป่ง อ.เมือง, ระยอง)

■ 74t (ศูนย์ราชการจังหวัดระยอง ต.เนินพระ อ.เมือง, ระยอง)

## Wind Speed &amp; Wind Direction

Request No. LA66-R0210

PTT Global Chemical Public Company Limited Branch 17 (GC 17 Polystyrene Plant)

Sample No. 01330

Sampling Source : บริเวณพื้นที่ก่อสร้างบ่อพักน้ำ

Sampling Date : February 1-8, 2023

Time	February 1-2, 2023		February 2-3, 2023		February 3-4, 2023		February 4-5, 2023		February 5-6, 2023		February 6-7, 2023		February 7-8, 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
10:00-11:00	0.9	WNW	0.9	SSE	1.3	SSE	0.9	ESE	0.9	NW	1.8	SSE	2.2	SSE
11:00-12:00	2.2	S	1.3	SSE	1.3	E	2.2	ESE	1.8	S	2.2	SSE	2.2	S
12:00-13:00	2.2	S	1.8	SSE	1.8	E	1.8	ESE	2.7	SSW	2.7	SSE	2.7	S
13:00-14:00	2.7	SSE	2.7	SSE	2.2	SSE	2.2	ESE	2.7	S	3.1	SSE	2.7	S
14:00-15:00	2.7	SSE	3.1	SSE	2.7	SSE	2.7	S	3.1	S	3.1	S	3.1	S
15:00-16:00	2.2	S	3.1	SSE	3.1	SSE	2.2	S	2.7	S	3.1	S	2.7	SSE
16:00-17:00	2.2	S	3.1	SSE	2.7	SSE	2.7	S	2.7	S	2.7	SE	2.2	SSE
17:00-18:00	2.2	S	2.2	SE	1.8	W	2.7	S	2.7	S	2.2	S	2.2	S
18:00-19:00	1.3	SSW	1.8	SE	1.8	WNW	2.7	S	1.3	S	1.8	S	1.8	SSW
19:00-20:00	1.3	SSE	1.8	SSE	1.3	SSW	1.8	SSE	1.3	S	1.8	SSE	1.8	SSE
20:00-21:00	0.9	SSE	1.8	S	1.3	SSW	1.8	SSE	1.3	SSE	2.2	SSE	1.8	SSE
21:00-22:00	0.4	SW	0.9	SSE	0.9	W	0.9	SSE	1.3	SE	2.2	SSE	1.8	SSE
22:00-23:00	0.4	SW	1.3	SSE	0.4	S	0.4	S	1.3	SSE	2.2	SSE	1.8	SSE
23:00-00:00	0.0	-	1.3	SSE	3.1	ESE	0.4	S	1.3	SSE	2.2	SSE	1.8	SSE
00:00-01:00	0.4	SSW	0.9	SE	0.0	-	0.0	-	0.9	SSE	1.8	SSE	1.8	SSE
01:00-02:00	0.0	-	1.3	SSE	0.0	-	0.4	SSE	1.3	SSE	2.2	SSE	1.8	SSE
02:00-03:00	0.0	-	0.9	SSE	0.0	-	0.4	SSE	1.3	SSE	1.8	SSE	1.3	SSE
03:00-04:00	0.4	WNW	0.4	SE	0.4	S	0.4	SW	1.3	S	1.8	SSE	1.8	S
04:00-05:00	0.0	-	0.4	SE	0.0	-	0.9	SW	1.8	SSE	1.8	SSE	1.3	SSE
05:00-06:00	0.0	-	0.9	SE	0.4	NW	0.4	SW	1.8	SSE	1.8	SSE	0.4	SSE
06:00-07:00	0.0	-	0.4	ESE	0.9	NW	0.4	SSW	0.9	S	2.2	SSE	0.4	S
07:00-08:00	0.0	-	0.4	SE	0.4	WNW	0.4	WNW	0.4	WNW	1.8	SSE	0.4	S
08:00-09:00	0.0	-	0.9	E	0.0	-	0.4	NW	0.4	S	2.2	SSE	1.3	SSE
09:00-10:00	0.4	WNW	1.3	SE	0.4	E	0.9	NW	0.9	S	2.2	SSE	1.3	SSE

## Wind Speed &amp; Wind Direction

Request No. LA66-R0210

PTT Global Chemical Public Company Limited Branch 17 (GC 17 Polystyrene Plant)

Sample No. 01331

Sampling Source : บริเวณโรงเรียนบ้านหนองแฟบ

Sampling Date : February 1-8, 2023

Time	February 1-2, 2023		February 2-3, 2023		February 3-4, 2023		February 4-5, 2023		February 5-6, 2023		February 6-7, 2023		February 7-8, 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
10:00-11:00	1.8	N	0.9	N	0.9	SE	0.4	S	0.9	SSW	0.9	NNE	1.3	SSW
11:00-12:00	0.9	N	1.3	N	0.9	SE	0.9	SE	0.9	SSW	0.9	N	1.3	S
12:00-13:00	1.3	N	1.3	N	1.3	SE	1.3	SE	1.8	N	1.3	N	1.3	S
13:00-14:00	1.8	N	1.8	N	1.3	N	1.8	SSE	1.8	N	2.2	N	1.8	S
14:00-15:00	1.8	N	2.2	N	1.8	N	1.8	SSW	1.8	NNE	2.2	N	1.8	SSW
15:00-16:00	1.8	N	1.8	N	1.8	NNE	1.8	SSW	1.8	NNE	2.2	NNE	1.8	SSW
16:00-17:00	1.3	N	1.8	NNE	1.3	N	1.8	SSW	1.3	NNE	2.2	NNE	1.8	SW
17:00-18:00	1.3	N	1.3	N	0.9	WSW	1.8	SSW	0.9	NNE	1.8	NNE	1.3	WSW
18:00-19:00	0.4	N	0.9	N	0.9	W	1.8	SSW	0.9	NNE	0.9	NNE	0.9	SSW
19:00-20:00	0.4	SSW	0.9	N	0.4	W	1.3	SSW	0.4	NNE	0.9	NNE	0.9	SSW
20:00-21:00	0.4	SSW	0.4	N	0.4	W	0.9	SSW	0.0	-	1.3	SSW	0.9	SSW
21:00-22:00	0.0	-	0.4	SSW	0.0	-	0.4	SSW	0.0	-	1.3	SSW	0.4	S
22:00-23:00	0.0	-	0.4	SSW	0.0	-	0.0	-	0.9	SSW	1.3	SSW	0.9	SSW
23:00-00:00	0.0	-	0.4	SSW	2.2	ESE	0.0	-	0.4	SSW	1.3	SSW	1.3	SSW
00:00-01:00	0.0	-	0.4	SSE	0.4	E	0.0	-	0.0	-	1.3	SSW	1.3	SSW
01:00-02:00	0.0	-	0.4	SSW	0.0	-	0.0	-	0.0	-	1.3	SSW	0.4	SSW
02:00-03:00	0.0	-	0.4	SSW	0.0	-	0.0	-	0.4	W	1.3	SSW	0.9	SSW
03:00-04:00	0.0	-	0.4	SSW	0.0	-	0.0	-	0.0	-	0.9	SSW	0.0	-
04:00-05:00	0.0	-	0.4	SSW	0.0	-	0.0	-	0.4	SSW	0.9	SSW	0.0	-
05:00-06:00	0.0	-	0.4	S	0.0	-	0.0	-	0.4	SSW	0.9	SSW	0.0	-
06:00-07:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.9	SSW	0.0	-
07:00-08:00	0.0	-	0.0	-	0.0	-	0.0	-	0.0	-	0.9	SSW	0.0	-
08:00-09:00	0.0	-	0.4	S	0.0	-	0.0	-	0.0	-	0.9	SSW	0.0	-
09:00-10:00	0.4	W	0.4	SE	0.0	-	0.4	NW	0.4	W	1.3	SSW	0.9	SE

## Wind Speed &amp; Wind Direction

Request No. LA66-R0210

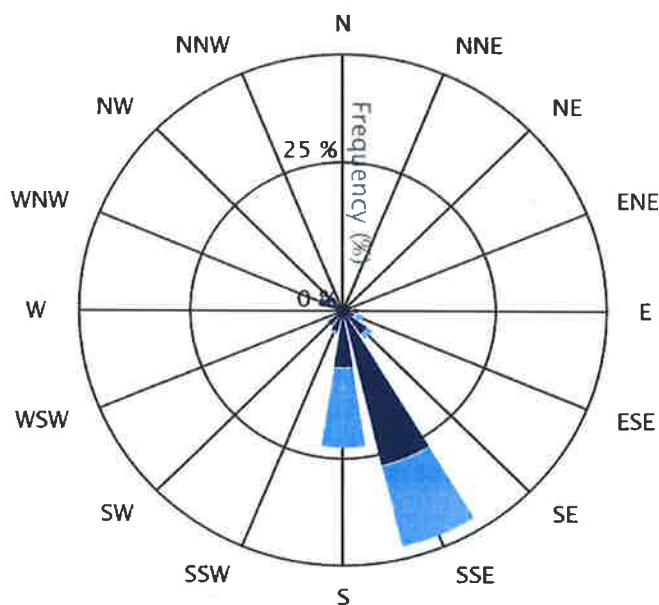
PTT Global Chemical Public Company Limited Branch 17 (GC 17 Polystyrene Plant)

Sample No. 01330

Sampling Source : บริเวณพื้นที่ก่อสร้างบ่อกักน้ำ

Sampling Date : February 1-8, 2023

Calm 8.3 %


 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	2.4	0.0	0.0	0.0	0.0	0.0	2.4
ESE	1.8	1.8	0.0	0.0	0.0	0.0	3.6
SE	4.8	1.2	0.0	0.0	0.0	0.0	6.0
SSE	26.8	14.3	0.0	0.0	0.0	0.0	41.1
S	9.5	13.7	0.0	0.0	0.0	0.0	23.2
SSW	3.6	0.6	0.0	0.0	0.0	0.0	4.2
SW	3.0	0.0	0.0	0.0	0.0	0.0	3.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	1.2	0.0	0.0	0.0	0.0	0.0	1.2
WNW	4.2	0.0	0.0	0.0	0.0	0.0	4.2
NW	3.0	0.0	0.0	0.0	0.0	0.0	3.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calm	8.3						

## Wind Speed & Wind Direction

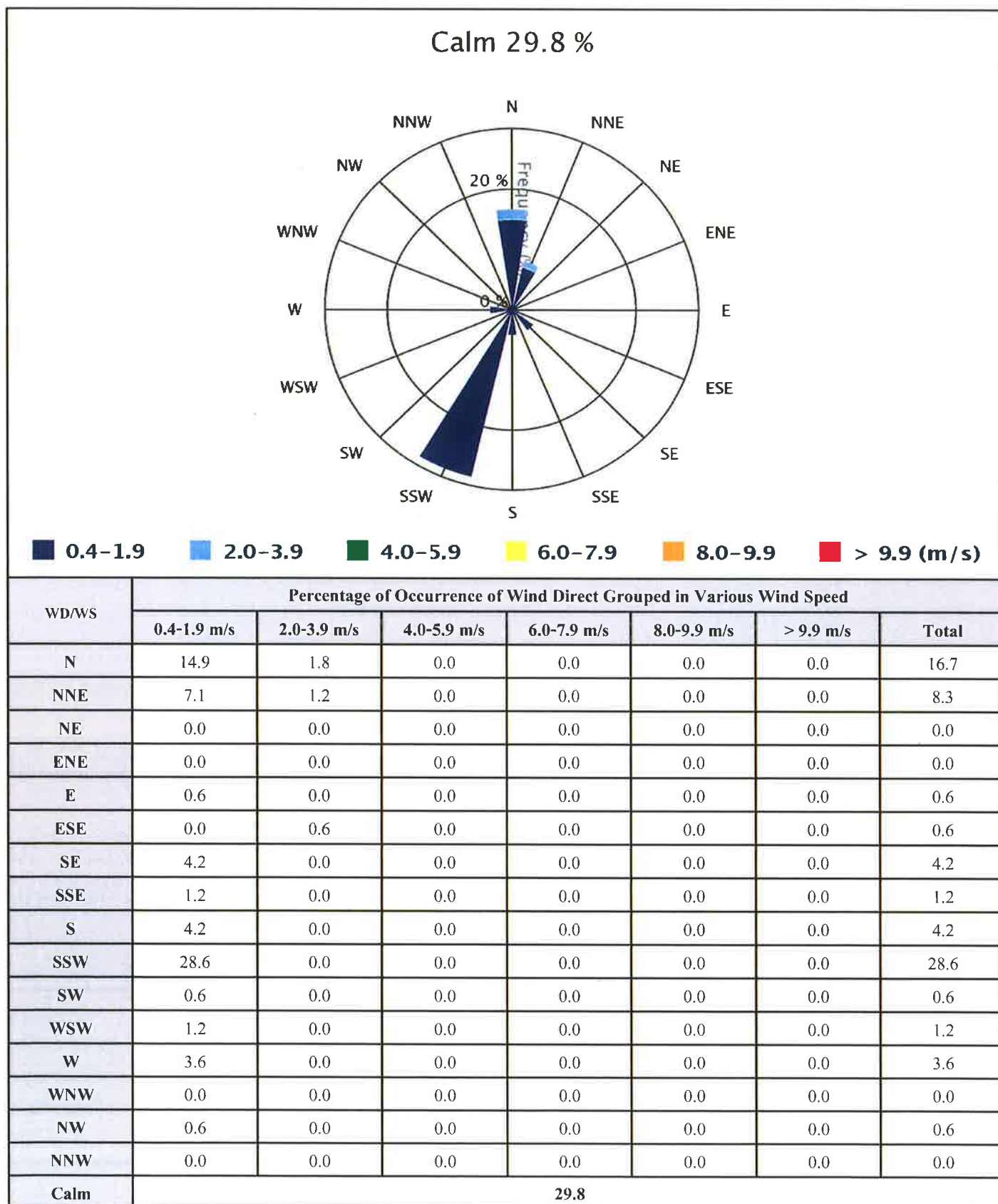
Request No. LA66-R0210

PTT Global Chemical Public Company Limited Branch 17 (GC 17 Polystyrene Plant)

Sample No. 01331

Sampling Source : บริเวณโรงเรียนบ้านหนองแฟบ

Sampling Date : February 1-8, 2023



ผลการตรวจวัดระดับเสียงโดยทั่วไป  
ช่วงระหว่างการก่อสร้าง

**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 E-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอซีทีล จำกัด (TPAC)  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90\#}$  &  $L_{dn\#}$  SAMPLE NO. : 01316  
DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 01-02/02/2023  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 08/02/2023  
S/N G301661 : Class 2 REPORTED DATE : 10/02/2023

TIME \ DATE	01-02/02/2023 ( $L_{eq}$ )	01-02/02/2023 ( $L_{max}$ )	01-02/02/2023 ( $L_{90\#}$ )	UNIT
09:50 - 10:50 <sup>/3</sup>	62.8	77.5	61.8	dB(A)
10:50 - 11:50	62.5	76.2	61.4	dB(A)
11:50 - 12:50	61.5	69.8	60.8	dB(A)
12:50 - 13:50	62.0	70.0	61.2	dB(A)
13:50 - 14:50	62.6	70.6	61.8	dB(A)
14:50 - 15:50	62.3	70.7	61.2	dB(A)
15:50 - 16:50	62.4	74.2	61.6	dB(A)
16:50 - 17:50	62.3	70.7	61.5	dB(A)
17:50 - 18:50	62.1	75.0	61.3	dB(A)
18:50 - 19:50	62.4	72.4	61.7	dB(A)
19:50 - 20:50	62.9	79.9	61.2	dB(A)
20:50 - 21:50	63.8	83.6	61.2	dB(A)
21:50 - 22:50	61.4	78.2	60.8	dB(A)
22:50 - 23:50	61.5	67.0	61.0	dB(A)
23:50 - 00:50	60.8	64.7	60.3	dB(A)
00:50 - 01:50	61.7	69.1	61.2	dB(A)
01:50 - 02:50	61.2	64.1	60.8	dB(A)
02:50 - 03:50	61.5	66.9	61.1	dB(A)
03:50 - 04:50	61.7	64.9	61.4	dB(A)
04:50 - 05:50	62.2	67.9	61.7	dB(A)
05:50 - 06:50	62.6	69.4	62.0	dB(A)
06:50 - 07:50	62.2	72.0	61.4	dB(A)
07:50 - 08:50	61.4	76.7	60.3	dB(A)
08:50 - 09:50	61.9	67.8	61.1	dB(A)
$L_{eq}$ 24 hr.	62.1	-	-	dB(A)
$L_{dn\#}$	68.2	-	-	dB(A)
Maximum	-	83.6	-	dB(A)
Standard	70 <sup>/1</sup> , 70 <sup>/2</sup>	115 <sup>/1</sup> , 115 <sup>/2</sup>	-	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)  
<sup>/3</sup> Start Time  
 \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Ms. Thanatporn Klinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
 (Measurement By Mr. Tummarut Photanachorn)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

10/02/2023

REPORTED TEST 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 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอซีที จำกัด (TPAC)  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90\#}$  &  $L_{dn\#}$  SAMPLE NO. : 01317  
DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 02-03/02/2023  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 08/02/2023  
S/N G301661 : Class 2 REPORTED DATE : 10/02/2023

TIME \ DATE	02-03/02/2023 ( $L_{eq}$ )	02-03/02/2023 ( $L_{max}$ )	02-03/02/2023 ( $L_{90\#}$ )	UNIT
09:50 - 10:50 <sup>13</sup>	62.1	74.0	61.1	dB(A)
10:50 - 11:50	61.2	65.8	60.5	dB(A)
11:50 - 12:50	60.8	72.6	59.9	dB(A)
12:50 - 13:50	62.4	72.5	61.0	dB(A)
13:50 - 14:50	62.1	72.4	61.1	dB(A)
14:50 - 15:50	62.4	74.3	61.1	dB(A)
15:50 - 16:50	62.3	74.9	60.9	dB(A)
16:50 - 17:50	62.3	71.0	61.4	dB(A)
17:50 - 18:50	62.0	69.6	61.2	dB(A)
18:50 - 19:50	62.2	73.5	61.3	dB(A)
19:50 - 20:50	61.1	69.4	60.4	dB(A)
20:50 - 21:50	61.6	65.8	61.2	dB(A)
21:50 - 22:50	61.3	72.1	60.8	dB(A)
22:50 - 23:50	60.6	65.3	60.2	dB(A)
23:50 - 00:50	60.6	63.0	60.1	dB(A)
00:50 - 01:50	61.5	64.8	61.1	dB(A)
01:50 - 02:50	61.3	64.1	60.9	dB(A)
02:50 - 03:50	60.9	63.2	60.6	dB(A)
03:50 - 04:50	60.9	68.4	60.5	dB(A)
04:50 - 05:50	61.4	66.1	60.9	dB(A)
05:50 - 06:50	61.6	68.6	61.0	dB(A)
06:50 - 07:50	61.7	70.5	61.0	dB(A)
07:50 - 08:50	61.9	75.9	60.9	dB(A)
08:50 - 09:50	63.2	73.3	62.1	dB(A)
$L_{eq}$ 24 hr.	61.7	-	-	dB(A)
$L_{dn\#}$	67.7	-	-	dB(A)
Maximum	-	75.9	-	dB(A)
Standard	70 <sup>11</sup> , 70 <sup>12</sup>	115 <sup>11</sup> , 115 <sup>12</sup>	-	dB(A)

**REMARK :** <sup>13</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>11</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>12</sup> Notification of Ministry of the Industry B.E. 2549 (2005)  
\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinson is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Phonasumrit)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)  
10/02/2023

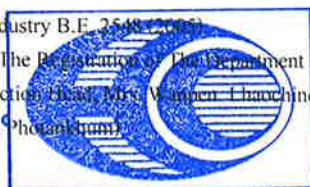
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL  
WITHOUT THE WRITTEN APPROVAL LABORATORY

**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอซีที จำกัด (TPAC)  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90\#}$  &  $L_{dn\#}$  SAMPLE NO. : 01318  
DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 03-04/02/2023  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 08/02/2023  
S/N G301661 : Class 2 REPORTED DATE : 10/02/2023

TIME \ DATE	03-04/02/2023 ( $L_{eq}$ )	03-04/02/2023 ( $L_{max}$ )	03-04/02/2023 ( $L_{90\#}$ )	UNIT
09:50 - 10:50 <sup>1/3</sup>	62.2	70.4	61.3	dB(A)
10:50 - 11:50	62.3	72.2	61.1	dB(A)
11:50 - 12:50	62.0	73.9	60.6	dB(A)
12:50 - 13:50	61.7	70.3	61.0	dB(A)
13:50 - 14:50	62.3	70.9	61.5	dB(A)
14:50 - 15:50	62.3	71.9	61.5	dB(A)
15:50 - 16:50	63.0	71.0	61.7	dB(A)
16:50 - 17:50	62.8	76.7	61.9	dB(A)
17:50 - 18:50	62.9	69.1	62.2	dB(A)
18:50 - 19:50	62.0	68.1	61.3	dB(A)
19:50 - 20:50	61.5	69.4	60.9	dB(A)
20:50 - 21:50	61.6	73.0	61.1	dB(A)
21:50 - 22:50	64.0	71.2	63.0	dB(A)
22:50 - 23:50	64.5	86.6	63.3	dB(A)
23:50 - 00:50	62.7	71.4	62.2	dB(A)
00:50 - 01:50	62.9	69.7	62.5	dB(A)
01:50 - 02:50	62.0	64.7	61.7	dB(A)
02:50 - 03:50	62.9	66.8	62.5	dB(A)
03:50 - 04:50	62.2	68.5	61.8	dB(A)
04:50 - 05:50	62.8	66.9	62.3	dB(A)
05:50 - 06:50	63.3	78.8	62.6	dB(A)
06:50 - 07:50	63.4	72.0	62.6	dB(A)
07:50 - 08:50	62.9	74.0	61.9	dB(A)
08:50 - 09:50	62.8	73.0	61.7	dB(A)
$L_{eq}$ 24 hr.	62.7	-	-	dB(A)
$L_{dn\#}$	69.4	-	-	dB(A)
Maximum	-	86.6	-	dB(A)
Standard	70 <sup>1/1</sup> , 70 <sup>1/2</sup>	115 <sup>1/1</sup> , 115 <sup>1/2</sup>	-	dB(A)

**REMARK :** <sup>1/3</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)  
\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Pholanturum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)  
10/02/2023

REPORTED TEST 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 17  
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอธีล จำกัด (TPAC)  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90\#}$  &  $L_{dn\#}$  SAMPLE NO. : 01319  
DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 04-05/02/2023  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 08/02/2023  
S/N G301661 : Class 2 REPORTED DATE : 10/02/2023

TIME \ DATE	04-05/02/2023 ( $L_{eq}$ )	04-05/02/2023 ( $L_{max}$ )	04-05/02/2023 ( $L_{90\#}$ )	UNIT
09:50 - 10:50 <sup>13</sup>	62.3	71.7	61.5	dB(A)
10:50 - 11:50	61.8	70.5	60.8	dB(A)
11:50 - 12:50	61.5	71.4	60.4	dB(A)
12:50 - 13:50	61.1	71.1	60.3	dB(A)
13:50 - 14:50	61.6	70.9	60.8	dB(A)
14:50 - 15:50	61.9	69.7	61.2	dB(A)
15:50 - 16:50	61.9	68.7	60.9	dB(A)
16:50 - 17:50	61.8	74.7	60.9	dB(A)
17:50 - 18:50	62.3	69.3	61.6	dB(A)
18:50 - 19:50	61.8	70.4	61.2	dB(A)
19:50 - 20:50	61.8	68.8	61.2	dB(A)
20:50 - 21:50	62.4	74.6	61.7	dB(A)
21:50 - 22:50	62.4	71.5	61.9	dB(A)
22:50 - 23:50	61.7	66.7	61.3	dB(A)
23:50 - 00:50	61.7	64.9	61.3	dB(A)
00:50 - 01:50	61.8	64.2	61.4	dB(A)
01:50 - 02:50	61.8	65.9	61.5	dB(A)
02:50 - 03:50	61.8	65.0	61.3	dB(A)
03:50 - 04:50	61.9	64.8	61.4	dB(A)
04:50 - 05:50	62.4	67.9	61.8	dB(A)
05:50 - 06:50	62.6	71.4	62.0	dB(A)
06:50 - 07:50	62.3	70.3	61.6	dB(A)
07:50 - 08:50	62.5	70.9	61.7	dB(A)
08:50 - 09:50	63.2	75.1	62.2	dB(A)
$L_{eq}$ 24 hr.	62.0	-	-	dB(A)
$L_{dn\#}$	68.4	-	-	dB(A)
Maximum	-	75.1	-	dB(A)
Standard	70 <sup>1/1</sup> , 70 <sup>1/2</sup>	115 <sup>1/1</sup> , 115 <sup>1/2</sup>	-	dB(A)

**REMARK :** <sup>13</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Phosankham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

10/02/2023

REPORTED TEST 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 17  
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอธีลีน จำกัด (TPAC)  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90\#}$  &  $L_{dn\#}$  SAMPLE NO. : 01320  
DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 05-06/02/2023  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 08/02/2023  
S/N G301661 : Class 2 REPORTED DATE : 10/02/2023

TIME \ DATE	05-06/02/2023 ( $L_{eq}$ )	05-06/02/2023 ( $L_{max}$ )	05-06/02/2023 ( $L_{90\#}$ )	UNIT
09:50 - 10:50 <sup>/3</sup>	63.0	71.3	62.0	dB(A)
10:50 - 11:50	61.7	73.0	60.8	dB(A)
11:50 - 12:50	60.7	70.3	60.0	dB(A)
12:50 - 13:50	61.7	69.8	60.9	dB(A)
13:50 - 14:50	61.5	72.4	60.8	dB(A)
14:50 - 15:50	61.5	67.1	60.8	dB(A)
15:50 - 16:50	62.0	68.2	61.4	dB(A)
16:50 - 17:50	62.3	68.6	61.6	dB(A)
17:50 - 18:50	62.5	69.6	62.0	dB(A)
18:50 - 19:50	62.4	73.4	61.8	dB(A)
19:50 - 20:50	62.0	68.1	61.5	dB(A)
20:50 - 21:50	62.6	70.9	62.2	dB(A)
21:50 - 22:50	62.3	72.7	61.8	dB(A)
22:50 - 23:50	62.0	67.3	61.5	dB(A)
23:50 - 00:50	61.9	64.2	61.5	dB(A)
00:50 - 01:50	62.4	65.3	62.0	dB(A)
01:50 - 02:50	61.9	65.3	61.4	dB(A)
02:50 - 03:50	62.2	65.8	61.7	dB(A)
03:50 - 04:50	61.4	66.2	61.0	dB(A)
04:50 - 05:50	61.7	65.0	61.3	dB(A)
05:50 - 06:50	62.4	71.9	61.6	dB(A)
06:50 - 07:50	62.5	72.8	61.7	dB(A)
07:50 - 08:50	62.3	75.8	61.3	dB(A)
08:50 - 09:50	62.3	69.5	61.6	dB(A)
$L_{eq}$ 24 hr.	62.1	-	-	dB(A)
$L_{dn\#}$	68.5	-	-	dB(A)
Maximum	-	75.8	-	dB(A)
Standard	70 <sup>/1</sup> , 70 <sup>/2</sup>	115 <sup>/1</sup> , 115 <sup>/2</sup>	-	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
/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 (2005)  
\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Photankham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)  
10/02/2023

REPORTED TEST 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 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอธีลีน จำกัด (TPAC)  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90\#}$  &  $L_{dn\#}$  SAMPLE NO. : 01321  
DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 06-07/02/2023  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 08/02/2023  
S/N G301661 : Class 2 REPORTED DATE : 10/02/2023

TIME \ DATE	06-07/02/2023 ( $L_{eq}$ )	06-07/02/2023 ( $L_{max}$ )	06-07/02/2023 ( $L_{90\#}$ )	UNIT
09:50 - 10:50 <sup>1/3</sup>	61.8	72.3	60.9	dB(A)
10:50 - 11:50	61.7	72.1	60.7	dB(A)
11:50 - 12:50	60.6	72.5	59.7	dB(A)
12:50 - 13:50	61.7	70.0	60.7	dB(A)
13:50 - 14:50	61.6	75.6	60.6	dB(A)
14:50 - 15:50	61.5	70.9	60.8	dB(A)
15:50 - 16:50	61.4	70.6	60.6	dB(A)
16:50 - 17:50	61.5	69.5	60.7	dB(A)
17:50 - 18:50	62.1	66.5	61.5	dB(A)
18:50 - 19:50	61.9	68.0	61.2	dB(A)
19:50 - 20:50	62.0	67.9	61.4	dB(A)
20:50 - 21:50	61.3	67.3	60.8	dB(A)
21:50 - 22:50	61.7	67.8	61.3	dB(A)
22:50 - 23:50	61.2	68.9	60.6	dB(A)
23:50 - 00:50	61.8	68.1	61.3	dB(A)
00:50 - 01:50	61.1	65.1	60.6	dB(A)
01:50 - 02:50	61.6	64.9	61.1	dB(A)
02:50 - 03:50	61.3	65.1	60.9	dB(A)
03:50 - 04:50	61.5	64.8	61.0	dB(A)
04:50 - 05:50	61.5	71.9	60.9	dB(A)
05:50 - 06:50	62.1	71.1	61.4	dB(A)
06:50 - 07:50	61.7	73.7	61.0	dB(A)
07:50 - 08:50	61.4	69.5	60.7	dB(A)
08:50 - 09:50	61.5	68.3	60.7	dB(A)
$L_{eq}$ 24 hr.	61.6	-	-	dB(A)
$L_{dn\#}$	68.0	-	-	dB(A)
Maximum	-	75.6	-	dB(A)
Standard	70 <sup>1/1</sup> , 70 <sup>2/2</sup>	115 <sup>1/1</sup> , 115 <sup>2/2</sup>	-	dB(A)

**REMARK :** Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)  
<sup>1/3</sup> Start Time  
 \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Ms. Thanatporn Klinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
 (Measurement By Mr. Tummarut Pholankham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

10/02/2023

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 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอธีลีน จำกัด (TPAC)  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90\#}$  &  $L_{dn\#}$  SAMPLE NO. : 01322  
DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 07-08/02/2023  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 08/02/2023  
S/N G301661 : Class 2 REPORTED DATE : 10/02/2023

TIME \ DATE	07-08/02/2023 ( $L_{eq}$ )	07-08/02/2023 ( $L_{max}$ )	07-08/02/2023 ( $L_{90\#}$ )	UNIT
09:50 - 10:50 <sup>/3</sup>	61.9	67.0	61.3	dB(A)
10:50 - 11:50	61.4	70.7	60.4	dB(A)
11:50 - 12:50	60.8	73.6	59.6	dB(A)
12:50 - 13:50	61.0	65.6	60.4	dB(A)
13:50 - 14:50	61.2	67.3	60.5	dB(A)
14:50 - 15:50	60.8	70.0	60.1	dB(A)
15:50 - 16:50	60.8	71.1	60.1	dB(A)
16:50 - 17:50	61.4	73.2	60.7	dB(A)
17:50 - 18:50	62.1	71.3	61.4	dB(A)
18:50 - 19:50	61.9	67.8	61.3	dB(A)
19:50 - 20:50	62.0	69.4	61.5	dB(A)
20:50 - 21:50	62.3	67.9	61.8	dB(A)
21:50 - 22:50	62.1	67.7	61.6	dB(A)
22:50 - 23:50	61.3	68.6	60.8	dB(A)
23:50 - 00:50	61.5	66.0	61.1	dB(A)
00:50 - 01:50	61.2	68.7	60.7	dB(A)
01:50 - 02:50	61.7	63.3	61.3	dB(A)
02:50 - 03:50	61.2	65.8	60.8	dB(A)
03:50 - 04:50	61.7	65.0	61.3	dB(A)
04:50 - 05:50	61.6	66.7	60.9	dB(A)
05:50 - 06:50	62.2	75.0	61.4	dB(A)
06:50 - 07:50	61.9	71.9	61.1	dB(A)
07:50 - 08:50	61.7	76.6	60.5	dB(A)
08:50 - 09:50	61.5	69.9	60.7	dB(A)
$L_{eq}$ 24 hr.	61.6	-	-	dB(A)
$L_{dn\#}$	68.0	-	-	dB(A)
Maximum	-	76.6	-	dB(A)
Standard	70 <sup>/1</sup> , 70 <sup>/2</sup>	115 <sup>/1</sup> , 115 <sup>/2</sup>	-	dB(A)

**REMARK :** Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)  
<sup>/3</sup> Start Time  
 \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
 (Measurement By Mr. Tummarut Photankorn)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

10/02/2023

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 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : โรงเรือนบ้านหนองแฟบ  
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 G301039 : Type 2

SAMPLE NO. : 01323  
MEASURING DATE : 01-02/02/2023  
RECEIVED DATE : 08/02/2023  
REPORTED DATE : 10/02/2023

TIME \ DATE	01-02/02/2023 ( $L_{eq}$ )	01-02/02/2023 ( $L_{max}$ )	01-02/02/2023 ( $L_{90\#}$ )	UNIT
10:30 - 11:30 <sup>/3</sup>	54.9	72.5	49.5	dB(A)
11:30 - 12:30	60.5	89.1	52.0	dB(A)
12:30 - 13:30	62.1	88.2	52.1	dB(A)
13:30 - 14:30	55.9	69.8	49.8	dB(A)
14:30 - 15:30	55.0	73.2	51.1	dB(A)
15:30 - 16:30	55.2	71.2	50.8	dB(A)
16:30 - 17:30	53.9	67.0	50.7	dB(A)
17:30 - 18:30	53.6	71.6	48.7	dB(A)
18:30 - 19:30	53.3	76.3	48.0	dB(A)
19:30 - 20:30	49.6	62.2	47.1	dB(A)
20:30 - 21:30	48.6	65.7	46.2	dB(A)
21:30 - 22:30	48.7	62.3	46.9	dB(A)
22:30 - 23:30	47.8	57.8	46.7	dB(A)
23:30 - 00:30	47.8	65.4	46.3	dB(A)
00:30 - 01:30	47.8	65.9	46.1	dB(A)
01:30 - 02:30	48.0	62.7	46.6	dB(A)
02:30 - 03:30	48.7	62.7	47.8	dB(A)
03:30 - 04:30	50.6	63.5	49.6	dB(A)
04:30 - 05:30	51.9	68.1	50.3	dB(A)
05:30 - 06:30	52.5	62.9	50.7	dB(A)
06:30 - 07:30	55.1	70.2	52.1	dB(A)
07:30 - 08:30	55.9	67.9	52.2	dB(A)
08:30 - 09:30	53.3	66.2	49.8	dB(A)
09:30 - 10:30	55.5	73.4	51.8	dB(A)
$L_{eq}$ 24 hr.	54.7	-	-	dB(A)
$L_{dn\#}$	58.5	-	-	dB(A)
Maximum	-	89.1	-	dB(A)
Standard	70 <sup>/1</sup> , 70 <sup>/2</sup>	115 <sup>/1</sup> , 115 <sup>/2</sup>	-	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>/2</sup> Notification of Ministry of the Industry B.E. 2516 (1973)  
<sup>/3</sup> Start Time  
 \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
 (Measurement By Mr. Tummarut Phonkham)



บริษัท อีสเทิร์นไทยคอนซัลต์ 1992 จำกัด

Approved By:   
 (MRS. WANPEN LHAOCHINDAWAT)  
 10/02/2023

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 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : โรงรีไซเคิลบ้านหนองแฟบ  
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 G301039 : Type 2

SAMPLE NO. : 01324  
MEASURING DATE : 02-03/02/2023  
RECEIVED DATE : 08/02/2023  
REPORTED DATE : 10/02/2023

TIME \ DATE	02-03/02/2023 ( $L_{eq}$ )	02-03/02/2023 ( $L_{max}$ )	02-03/02/2023 ( $L_{90\#}$ )	UNIT
10:30 - 11:30 <sup>1/3</sup>	53.1	68.6	49.7	dB(A)
11:30 - 12:30	58.6	74.6	52.1	dB(A)
12:30 - 13:30	51.3	62.6	48.5	dB(A)
13:30 - 14:30	55.4	72.9	51.1	dB(A)
14:30 - 15:30	55.5	70.3	51.7	dB(A)
15:30 - 16:30	54.1	72.3	49.8	dB(A)
16:30 - 17:30	53.5	69.4	50.2	dB(A)
17:30 - 18:30	53.1	71.0	49.3	dB(A)
18:30 - 19:30	51.7	64.5	48.3	dB(A)
19:30 - 20:30	50.8	63.5	48.4	dB(A)
20:30 - 21:30	51.3	63.4	48.7	dB(A)
21:30 - 22:30	52.8	66.9	50.0	dB(A)
22:30 - 23:30	52.3	66.1	49.9	dB(A)
23:30 - 00:30	51.2	68.6	48.6	dB(A)
00:30 - 01:30	48.4	65.4	45.9	dB(A)
01:30 - 02:30	47.5	63.1	45.6	dB(A)
02:30 - 03:30	46.8	55.4	45.6	dB(A)
03:30 - 04:30	47.7	59.5	46.0	dB(A)
04:30 - 05:30	49.3	63.3	45.6	dB(A)
05:30 - 06:30	51.8	64.5	47.2	dB(A)
06:30 - 07:30	54.3	66.5	51.0	dB(A)
07:30 - 08:30	57.0	73.3	52.7	dB(A)
08:30 - 09:30	54.2	64.5	51.2	dB(A)
09:30 - 10:30	57.2	72.3	51.6	dB(A)
$L_{eq}$ 24 hr.	53.5	-	-	dB(A)
$L_{dn\#}$	57.9	-	-	dB(A)
Maximum	-	74.6	-	dB(A)
Standard	70 <sup>1/1</sup> , 70 <sup>2/2</sup>	115 <sup>1/1</sup> , 115 <sup>2/2</sup>	-	dB(A)

**REMARK :** <sup>1/3</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

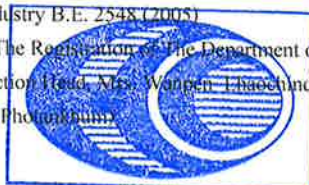
<sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

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

(Ms. Thanatporn Klinsoon is Section Head, Miss Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Phonkham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)  
10/02/2023

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**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : โรงเรือนบ้านหนองแฟบ  
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 G301039 : Type 2

SAMPLE NO. : 01325  
MEASURING DATE : 03-04/02/2023  
RECEIVED DATE : 08/02/2023  
REPORTED DATE : 10/02/2023

TIME \ DATE	03-04/02/2023 ( $L_{eq}$ )	03-04/02/2023 ( $L_{max}$ )	03-04/02/2023 ( $L_{90\#}$ )	UNIT
10:30 - 11:30 <sup>/3</sup>	53.4	66.5	50.2	dB(A)
11:30 - 12:30	55.3	70.1	51.6	dB(A)
12:30 - 13:30	57.4	76.6	50.9	dB(A)
13:30 - 14:30	53.3	64.9	49.9	dB(A)
14:30 - 15:30	54.9	67.9	51.0	dB(A)
15:30 - 16:30	53.9	67.8	49.9	dB(A)
16:30 - 17:30	53.4	71.8	50.0	dB(A)
17:30 - 18:30	50.7	61.4	48.2	dB(A)
18:30 - 19:30	51.1	65.5	48.0	dB(A)
19:30 - 20:30	54.5	65.3	51.4	dB(A)
20:30 - 21:30	52.4	68.3	49.7	dB(A)
21:30 - 22:30	52.0	66.3	49.6	dB(A)
22:30 - 23:30	63.9	78.4	61.8	dB(A)
23:30 - 00:30	51.1	63.1	49.3	dB(A)
00:30 - 01:30	48.2	55.8	47.1	dB(A)
01:30 - 02:30	53.1	78.6	48.5	dB(A)
02:30 - 03:30	49.3	57.5	47.9	dB(A)
03:30 - 04:30	51.3	60.1	50.1	dB(A)
04:30 - 05:30	50.9	68.2	49.5	dB(A)
05:30 - 06:30	53.1	70.8	49.6	dB(A)
06:30 - 07:30	54.2	67.6	51.9	dB(A)
07:30 - 08:30	55.0	74.6	50.8	dB(A)
08:30 - 09:30	54.2	78.4	50.7	dB(A)
09:30 - 10:30	52.0	64.3	49.2	dB(A)
$L_{eq}$ 24 hr.	54.9	-	-	dB(A)
$L_{dn\#}$	62.3	-	-	dB(A)
Maximum	-	78.6	-	dB(A)
Standard	$70^{/1}, 70^{/2}$	$115^{/1}, 115^{/2}$	-	dB(A)

**REMARK :** <sup>/1</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)  
<sup>/3</sup> Start Time  
\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Photakham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

10/02/2023

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**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : โรงเรือนบ้านหนองแฟบ  
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 G301039 : Type 2


SAMPLE NO. : 01326  
MEASURING DATE : 04-05/02/2023  
RECEIVED DATE : 08/02/2023  
REPORTED DATE : 10/02/2023

TIME \ DATE	04-05/02/2023 ( $L_{eq}$ )	04-05/02/2023 ( $L_{max}$ )	04-05/02/2023 ( $L_{90\#}$ )	UNIT
10:30 - 11:30 <sup>1/3</sup>	52.0	65.2	49.1	dB(A)
11:30 - 12:30	51.8	73.2	49.1	dB(A)
12:30 - 13:30	50.5	68.2	47.8	dB(A)
13:30 - 14:30	50.9	72.1	46.9	dB(A)
14:30 - 15:30	50.4	68.3	47.0	dB(A)
15:30 - 16:30	51.0	66.0	47.2	dB(A)
16:30 - 17:30	64.2	78.6	55.4	dB(A)
17:30 - 18:30	66.7	78.0	58.2	dB(A)
18:30 - 19:30	56.2	68.3	51.7	dB(A)
19:30 - 20:30	54.7	67.6	50.2	dB(A)
20:30 - 21:30	55.3	69.0	50.6	dB(A)
21:30 - 22:30	55.2	70.8	49.9	dB(A)
22:30 - 23:30	55.8	69.7	52.4	dB(A)
23:30 - 00:30	51.2	70.8	48.6	dB(A)
00:30 - 01:30	49.8	71.7	46.3	dB(A)
01:30 - 02:30	47.5	62.6	45.6	dB(A)
02:30 - 03:30	48.3	63.9	45.4	dB(A)
03:30 - 04:30	48.1	69.8	45.4	dB(A)
04:30 - 05:30	49.5	62.9	46.1	dB(A)
05:30 - 06:30	68.6	79.1	59.1	dB(A)
06:30 - 07:30	69.1	84.3	61.1	dB(A)
07:30 - 08:30	65.5	84.5	58.2	dB(A)
08:30 - 09:30	52.1	62.9	48.1	dB(A)
09:30 - 10:30	53.3	67.0	48.6	dB(A)
$L_{eq}$ 24 hr.	60.9	-	-	dB(A)
$L_{dn\#}$	68.7	-	-	dB(A)
Maximum	-	84.5	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	$115^{1/1}, 115^{1/2}$	-	dB(A)

**REMARK :** Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2538 (2005)  
<sup>1/3</sup> Start Time  
 \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
 (Measurement By Mr. Tummarut Phatanchinn)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

10/02/2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : โรงเรียนบ้านหนองแฟบ  
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 G301039 : Type 2

SAMPLE NO. : 01327  
MEASURING DATE : 05-06/02/2023  
RECEIVED DATE : 08/02/2023  
REPORTED DATE : 10/02/2023

TIME \ DATE	05-06/02/2023 ( $L_{eq}$ )	05-06/02/2023 ( $L_{max}$ )	05-06/02/2023 ( $L_{90\#}$ )	UNIT
10:30 - 11:30 <sup>1/3</sup>	51.6	63.0	47.8	dB(A)
11:30 - 12:30	49.8	62.8	46.5	dB(A)
12:30 - 13:30	48.8	63.5	46.0	dB(A)
13:30 - 14:30	49.9	61.4	46.4	dB(A)
14:30 - 15:30	51.0	66.8	46.4	dB(A)
15:30 - 16:30	54.5	66.6	49.6	dB(A)
16:30 - 17:30	52.2	69.5	47.6	dB(A)
17:30 - 18:30	54.2	80.4	49.0	dB(A)
18:30 - 19:30	53.3	66.8	48.8	dB(A)
19:30 - 20:30	52.5	68.7	49.4	dB(A)
20:30 - 21:30	54.4	65.8	50.7	dB(A)
21:30 - 22:30	55.1	67.7	50.7	dB(A)
22:30 - 23:30	55.6	67.8	51.1	dB(A)
23:30 - 00:30	49.2	63.2	47.0	dB(A)
00:30 - 01:30	47.2	55.6	46.3	dB(A)
01:30 - 02:30	47.2	56.2	46.4	dB(A)
02:30 - 03:30	47.4	62.4	46.3	dB(A)
03:30 - 04:30	48.0	61.0	46.8	dB(A)
04:30 - 05:30	52.2	74.1	47.5	dB(A)
05:30 - 06:30	52.9	65.8	49.6	dB(A)
06:30 - 07:30	55.8	69.3	52.5	dB(A)
07:30 - 08:30	56.7	71.8	53.1	dB(A)
08:30 - 09:30	53.7	66.0	50.8	dB(A)
09:30 - 10:30	52.4	66.0	49.8	dB(A)
$L_{eq}$ 24 hr.	52.8	-	-	dB(A)
$L_{dn\#}$	58.6	-	-	dB(A)
Maximum	-	80.4	-	dB(A)
Standard	70 <sup>1/1</sup> , 70 <sup>2/2</sup>	115 <sup>1/1</sup> , 115 <sup>2/2</sup>	-	dB(A)

**REMARK :** Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)  
<sup>1/3</sup> Start Time  
 \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
 (Measurement By Mr. Tummarut Phatankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
 (MRS. WANPEN LHAOCHINDAWAT)

10/02/2023

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 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : โรงเรียนบ้านหนองแฟบ  
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 G301039 : Type 2

SAMPLE NO. : 01328  
MEASURING DATE : 06-07/02/2023  
RECEIVED DATE : 08/02/2023  
REPORTED DATE : 10/02/2023

TIME \ DATE	06-07/02/2023 ( $L_{eq}$ )	06-07/02/2023 ( $L_{max}$ )	06-07/02/2023 ( $L_{90\%}$ )	UNIT
10:30 - 11:30 <sup>1/3</sup>	52.3	63.3	49.5	dB(A)
11:30 - 12:30	58.4	77.1	52.5	dB(A)
12:30 - 13:30	50.6	62.9	48.1	dB(A)
13:30 - 14:30	49.9	63.7	47.2	dB(A)
14:30 - 15:30	52.3	67.8	49.5	dB(A)
15:30 - 16:30	53.1	65.7	49.7	dB(A)
16:30 - 17:30	51.1	63.4	48.4	dB(A)
17:30 - 18:30	52.2	64.3	49.0	dB(A)
18:30 - 19:30	54.5	68.0	50.4	dB(A)
19:30 - 20:30	60.1	69.7	56.9	dB(A)
20:30 - 21:30	59.1	68.4	55.7	dB(A)
21:30 - 22:30	56.2	71.4	51.5	dB(A)
22:30 - 23:30	55.5	70.1	50.9	dB(A)
23:30 - 00:30	50.4	66.8	46.9	dB(A)
00:30 - 01:30	48.6	58.1	46.2	dB(A)
01:30 - 02:30	48.6	68.1	46.2	dB(A)
02:30 - 03:30	47.0	58.9	46.1	dB(A)
03:30 - 04:30	48.0	58.9	46.3	dB(A)
04:30 - 05:30	49.8	63.1	46.5	dB(A)
05:30 - 06:30	51.1	67.5	47.9	dB(A)
06:30 - 07:30	54.6	68.0	50.8	dB(A)
07:30 - 08:30	56.0	68.4	52.4	dB(A)
08:30 - 09:30	53.4	67.6	50.5	dB(A)
09:30 - 10:30	52.4	64.3	50.0	dB(A)
$L_{eq}$ 24 hr.	54.2	-	-	dB(A)
$L_{dn\#}$	58.6	-	-	dB(A)
Maximum	-	77.1	-	dB(A)
Standard	70 <sup>1/1</sup> , 70 <sup>1/2</sup>	115 <sup>1/1</sup> , 115 <sup>1/2</sup>	-	dB(A)

**REMARK :** Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2542 (1999)  
<sup>1/3</sup> Start Time  
 \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaechindawat is Technical Management)  
 (Measurement By Mr. Tummarut Photankom)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
 (MRS. WANPEN LHAEOCHINDAWAT)  
 10/02/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : โรงเรียนบ้านหนองแฟบ  
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 G301039 : Type 2

SAMPLE NO. : 01329  
MEASURING DATE : 07-08/02/2023  
RECEIVED DATE : 08/02/2023  
REPORTED DATE : 10/02/2023

TIME \ DATE	07-08/02/2023 ( $L_{eq}$ )	07-08/02/2023 ( $L_{max}$ )	07-08/02/2023 ( $L_{90\#}$ )	UNIT
10:30 - 11:30 <sup>/3</sup>	53.4	67.8	51.4	dB(A)
11:30 - 12:30	55.1	64.0	53.2	dB(A)
12:30 - 13:30	56.6	72.3	52.7	dB(A)
13:30 - 14:30	51.8	69.5	48.5	dB(A)
14:30 - 15:30	52.6	73.6	49.0	dB(A)
15:30 - 16:30	53.2	65.0	49.9	dB(A)
16:30 - 17:30	52.0	68.9	48.4	dB(A)
17:30 - 18:30	53.3	76.7	48.8	dB(A)
18:30 - 19:30	52.0	63.4	49.3	dB(A)
19:30 - 20:30	50.6	64.1	48.6	dB(A)
20:30 - 21:30	50.4	63.7	48.8	dB(A)
21:30 - 22:30	49.8	63.2	48.0	dB(A)
22:30 - 23:30	48.4	61.2	46.6	dB(A)
23:30 - 00:30	47.7	59.2	46.3	dB(A)
00:30 - 01:30	47.7	61.5	46.5	dB(A)
01:30 - 02:30	50.1	63.5	45.9	dB(A)
02:30 - 03:30	47.0	57.3	45.6	dB(A)
03:30 - 04:30	48.6	59.0	46.4	dB(A)
04:30 - 05:30	50.0	62.9	47.2	dB(A)
05:30 - 06:30	51.0	63.8	48.5	dB(A)
06:30 - 07:30	54.9	68.8	51.5	dB(A)
07:30 - 08:30	55.2	68.6	52.4	dB(A)
08:30 - 09:30	53.1	67.3	50.7	dB(A)
09:30 - 10:30	53.2	63.5	51.0	dB(A)
$L_{eq}$ 24 hr.	52.3	-	-	dB(A)
$L_{dn\#}$	57.2	-	-	dB(A)
Maximum	-	76.7	-	dB(A)
Standard	70 <sup>/1</sup> , 70 <sup>/2</sup>	115 <sup>/1</sup> , 115 <sup>/2</sup>	-	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)  
<sup>/3</sup> Start Time  
 \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
 (Measurement By Mr. Tummarut Photanakhum)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

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

10/02/2023

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ผลการทดสอบคุณภาพอากาศในปล่องระบาย

Request No. LA66-0620

Report No. 6606-0331

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE POINT : Hot Oil Heater Stack 1 (S-140A) SAMPLE NO. : 03415  
SAMPLING DATE : 12/06/2023 SAMPLING TIME : 14:20-15:15  
RECEIVED DATE : 15/06/2023 REPORTED DATE : 20/06/2023  
TESTED DATE : 15-20/06/2023

## STACK DESCRIPTION

Height :	20.00	m	Type of Process :	Combustion
Diameter :	0.45	m	Type of Fuel :	Recovered Volatile
Temperature :	217.00	°C	Oxygen Content :	4.61 %
Air Velocity :	2.79	m/s	Barometric Pressure :	754.75 mm.Hg
Flow rate <sup>2</sup> :	0.25	m <sup>3</sup> /s	Atmospheric Temperature :	31.00 °C
Moisture Content :	6.87	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>		STD <sup>1</sup>	UNIT
			4.61 % O <sub>2</sub>	7 % O <sub>2</sub>		
Particulate	Isokinetic, Gravimetric	14:20-15:15	0.9	0.8	320, 216.0 <sup>3</sup>	mg/m <sup>3</sup>
(TSP)			0.0002	-	0.065 <sup>3</sup>	g/s

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

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

Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

20/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

20/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. LA66-0620

Report No. 6606-0332

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE POINT : Hot Oil Heater Stack 1 (S-140A) SAMPLE NO. : 03416  
SAMPLING DATE : 12/06/2023 SAMPLING TIME : 14:20-14:50  
RECEIVED DATE : 15/06/2023 REPORTED DATE : 20/06/2023  
TESTED DATE : 15-20/06/2023  
STACK DESCRIPTION

Height :	20.00	m	Type of Process :	Combustion
Diameter :	0.45	m	Type of Fuel :	Recovered Volatile
Temperature :	217.00	°C	Oxygen Content :	4.61 %
Air Velocity :	2.79	m/s	Barometric Pressure :	754.75 mm.Hg
Flow rate <sup>2</sup> :	0.25	m <sup>3</sup> /s	Atmospheric Temperature :	31.00 °C
Moisture Content :	6.87	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>		STD <sup>1</sup>	UNIT
			4.61 % O <sub>2</sub>	7 % O <sub>2</sub>		
Sulfur Dioxide (SO <sub>2</sub> )	Barium Thorin Titrimetric	14:20-14:50	<3.4	<3.4	157, 23.1 <sup>3</sup>	mg/m <sup>3</sup>
			<1.3	<1.3	60, 8.8 <sup>3</sup>	ppm
			< 0.0009	-	0.007 <sup>3</sup>	g/s

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

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

Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

20/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

20/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. LA66-0620

Report No. 6606-0333

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
 SAMPLE SOURCE : GC 17 Polystyrene Plant  
 SAMPLE POINT : Hot Oil Heater Stack 1 (S-140A) SAMPLE NO. : 03417  
 SAMPLING DATE : 12/06/2023 SAMPLING TIME : 15:35-15:40  
 RECEIVED DATE : 15/06/2023 REPORTED DATE : 20/06/2023  
 TESTED DATE : 15-16/06/2023

## STACK DESCRIPTION

Height :	20.00	m	Type of Process :	Combustion
Diameter :	0.45	m	Type of Fuel :	Recovered Volatile
Temperature :	217.00	°C	Oxygen Content :	4.61 %
Air Velocity :	2.79	m/s	Barometric Pressure :	754.75 mm.Hg
Flow rate <sup>2</sup> :	0.25	m <sup>3</sup> /s	Atmospheric Temperature :	31.00 °C
Moisture Content :	6.87	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>		STD <sup>1</sup>	UNIT
			4.61 % O <sub>2</sub>	7 % O <sub>2</sub>		
Oxides of Nitrogen	Chemical Absorption,	15:35-15:40	46.1	39.3	376, 74.5 <sup>3</sup>	mg/m <sup>3</sup>
(NO <sub>x</sub> as NO <sub>2</sub> )	Colorimetric		24.5	20.9	200, 39.6 <sup>3</sup>	ppm
			0.0115	-	0.022 <sup>3</sup>	g/s

## REMARK:

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

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

Examined By.....



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

20/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

20/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. LA66-0424

Report No. 6604-0246

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE POINT : Hot Oil Heater Stack 2 (S-140B) SAMPLE NO. : 01682  
SAMPLING DATE : 07/04/2023 SAMPLING TIME : 09:30-10:25  
RECEIVED DATE : 18/04/2023 REPORTED DATE : 27/04/2023  
TESTED DATE : 18-24/04/2023

## STACK DESCRIPTION

Height :	22.00	m	Type of Process :	Combustion
Diameter :	0.60	m	Type of Fuel :	Recovered Volatile
Temperature :	210.00	°C	Oxygen Content :	1.26 %
Air Velocity :	2.29	m/s	Barometric Pressure :	757.75 mm.Hg
Flow rate <sup>2</sup> :	0.37	m <sup>3</sup> /s	Atmospheric Temperature :	32.00 °C
Moisture Content :	7.63	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>		STD <sup>1</sup>	UNIT
			1.26 % O <sub>2</sub>	7 % O <sub>2</sub>		
Particulate	Isokinetic, Gravimetric	09:30-10:25	29.4	20.8	320, 216.0 <sup>3</sup>	mg/m <sup>3</sup>
(TSP)			0.0109	-	0.103 <sup>3</sup>	g/s

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

\* SAMPLING BY MR. TEERAPONG NAULIN (ว-003-ค-5620)

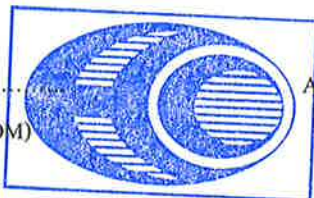
Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

27/04/2023



บริษัท อีสเทิร์นไทยคอนซัลต์ติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

27/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-0424

Report No. 6604-0247

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE POINT : Hot Oil Heater Stack 2 (S-140B) SAMPLE NO. : 01683  
SAMPLING DATE : 07/04/2023 SAMPLING TIME : 09:30-10:00  
RECEIVED DATE : 18/04/2023 REPORTED DATE : 27/04/2023  
TESTED DATE : 18-24/04/2023  
STACK DESCRIPTION

Height :	22.00	m	Type of Process :	Combustion
Diameter :	0.60	m	Type of Fuel :	Recovered Volatile
Temperature :	210.00	°C	Oxygen Content :	1.26 %
Air Velocity :	2.29	m/s	Barometric Pressure :	757.75 mm.Hg
Flow rate <sup>2</sup> :	0.37	m <sup>3</sup> /s	Atmospheric Temperature :	32.00 °C
Moisture Content :	7.63	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>		STD <sup>1</sup>	UNIT
			1.26 % O <sub>2</sub>	7 % O <sub>2</sub>		
Sulfur Dioxide (SO <sub>2</sub> )	Barium Thorin Titrimetric	09:30-10:00	<3.4	<3.4	157, 23.1 <sup>3</sup>	mg/m <sup>3</sup>
			<1.3	<1.3	60, 8.8 <sup>3</sup>	ppm
			<0.0013	-	0.011 <sup>3</sup>	g/s

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

\* SAMPLING BY MR. TEERAPONG NAULIN (ว-003-ค-5620)

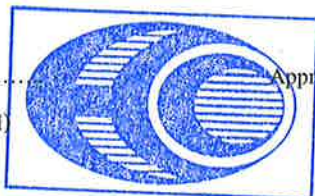
Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

27/04/2023



บริษัท อีสเทิร์นไทยคอนซัลต์ติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

27/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. LA66-0424

Report No. 6604-0248

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE POINT : Hot Oil Heater Stack 2 (S-140B) SAMPLE NO. : 01684  
SAMPLING DATE : 07/04/2023 SAMPLING TIME : 09:40-09:45  
RECEIVED DATE : 18/04/2023 REPORTED DATE : 27/04/2023  
TESTED DATE : 18-24/04/2023

## STACK DESCRIPTION

Height :	22.00	m	Type of Process :	Combustion
Diameter :	0.60	m	Type of Fuel :	Recovered Volatile
Temperature :	210.00	°C	Oxygen Content :	1.26 %
Air Velocity :	2.29	m/s	Barometric Pressure :	757.75 mm.Hg
Flow rate <sup>2</sup> :	0.37	m <sup>3</sup> /s	Atmospheric Temperature :	32.00 °C
Moisture Content :	7.63	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>		STD <sup>1</sup>	UNIT
			1.26% O <sub>2</sub>	7 % O <sub>2</sub>		
Oxides of Nitrogen (NO <sub>x</sub> as NO <sub>2</sub> )	Chemical Absorption,	09:40-09:45	63.3	44.8	376, 74.5 <sup>3</sup>	mg/m <sup>3</sup>
	Colorimetric		33.6	23.8	200, 39.6 <sup>3</sup>	ppm
			0.0234	-	0.035 <sup>3</sup>	g/s

## REMARK:

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

\* SAMPLING BY MR. TEERAPONG NAULIN (ว-003-ค-5620)

Examined By



(MISS APIRADEE CHUEN-AROM)

(ว-003-ค-4377)

27/04/2023



บริษัท อีสเทิร์นไทยคอนซัลต์ติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

(ว-003-ค-5618)

27/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-0620

Report No. 6606-0334

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
 SAMPLE SOURCE : GC 17 Polystyrene Plant  
 SAMPLE POINT : Die-Fume Scrubber Stack of HIPS  
 SAMPLING DATE : 12/06/2023  
 RECEIVED DATE : 15/06/2023  
 TESTED DATE : 15-16/06/2023  
 SAMPLE NO. : 03418  
 SAMPLING TIME : 15:05-15:20  
 REPORTED DATE : 20/06/2023

## STACK DESCRIPTION

Height :	13.00	m	Type of Process :	Exhaust
Diameter :	0.35	m	Type of Fuel :	-
Temperature :	42.20	°C	Oxygen Content :	20.90 %
Air Velocity :	4.04	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate <sup>2</sup> :	0.36	m <sup>3</sup> /s	Atmospheric Temperature :	39.10 °C
Moisture Content :	-	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Styrene monomer	Adsorption, Gas Chromatographic (U.S. EPA Method 18)	15:05-15:20	36.65	44.0	mg/m <sup>3</sup>
			8.60	-	ppm
			0.0132	0.0604	g/s

**REMARK:**<sup>1</sup> ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)<sup>2</sup> WET BASIS (Actual Condition)

\* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION

OF THE DEPARTMENT OF INDUSTRIAL WORKS

(SAMPLING BY MR. METEE SUKPRASERT)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

20/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-0620

Report No. 6606-0335

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE POINT : Die-Fume Scrubber Stack of HIPS  
SAMPLING DATE : 12/06/2023  
RECEIVED DATE : 15/06/2023  
TESTED DATE : 15-16/06/2023

SAMPLE NO. : 03419  
SAMPLING TIME : 15:05-15:20  
REPORTED DATE : 20/06/2023

## STACK DESCRIPTION

Height :	13.00	m	Type of Process :	Exhaust
Diameter :	0.35	m	Type of Fuel :	-
Temperature :	42.20	°C	Oxygen Content :	20.90 %
Air Velocity :	4.04	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate <sup>2</sup> :	0.36	m <sup>3</sup> /s	Atmospheric Temperature :	39.10 °C
Moisture Content :	-	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Ethylbenzene	Adsorption, Gas Chromatographic (U.S. EPA Method 18)	15:05-15:20	37.90	60.0	mg/m <sup>3</sup>
			8.73	-	ppm
			0.0136	0.0824	g/s

**REMARK:**<sup>1</sup> ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)<sup>2</sup> WET BASIS (Actual Condition)

\* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION

OF THE DEPARTMENT OF INDUSTRIAL WORKS

(SAMPLING BY MR. METEE SUKPRASERT)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

20/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-0424

Report No. 6604-0251

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE POINT : Pellet Dryer of HIPS  
SAMPLING DATE : 07/04/2023  
RECEIVED DATE : 18/04/2023  
TESTED DATE : 18-25/04/2023

SAMPLE NO. : 01687  
SAMPLING TIME : 14:15-14:30  
REPORTED DATE : 27/04/2023

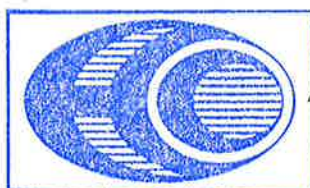
## STACK DESCRIPTION

Height :	11.00	m	Type of Process :	Exhaust
Diameter :	0.33	m	Type of Fuel :	-
Temperature :	55.00	°C	Oxygen Content :	20.80 %
Air Velocity :	4.48	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate <sup>2</sup> :	0.38	m <sup>3</sup> /s	Atmospheric Temperature :	40.00 °C
Moisture Content :	-	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Styrene monomer	US.EPA Method 18	14:15-14:30	<0.45	1.5	mg/m <sup>3</sup>
			<0.11	-	ppm
			<0.0002	0.00104	g/s

**REMARK:**<sup>1</sup> ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)<sup>2</sup> WET BASIS (Actual Condition)

\* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION  
OF THE DEPARTMENT OF INDUSTRIAL WORKS  
(SAMPLING BY MR. TEERAPONG NAULIN)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

27/04/2023

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

Request No. LA66-0424

Report No. 6604-0252

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE POINT : Pellet Dryer of HIPS  
SAMPLING DATE : 07/04/2023  
RECEIVED DATE : 18/04/2023  
TESTED DATE : 18-25/04/2023

SAMPLE NO. : 01688  
SAMPLING TIME : 14:15-14:30  
REPORTED DATE : 27/04/2023

## STACK DESCRIPTION

Height :	11.00	m	Type of Process :	Exhaust
Diameter :	0.33	m	Type of Fuel :	-
Temperature :	55.00	°C	Oxygen Content :	20.80 %
Air Velocity :	4.48	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate <sup>2</sup> :	0.38	m <sup>3</sup> /s	Atmospheric Temperature :	40.00 °C
Moisture Content :	-	%		

PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Ethylbenzene	Adsorption, Gas Chromatographic (U.S. EPA Method 18)	14:15-14:30	<2.07	16.0	mg/m <sup>3</sup>
			<0.48	-	ppm
			<0.0008	0.01111	g/s

**REMARK:**<sup>1</sup> ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)<sup>2</sup> WET BASIS (Actual Condition)

\* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION

OF THE DEPARTMENT OF INDUSTRIAL WORKS

(SAMPLING BY MR. TEERAPONG NAULIN)



บริษัท อีสเทิร์นไทยคอนซัลต์ติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

27/04/2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-0424

Report No. 6604-0253

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-I Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
 SAMPLE SOURCE : GC 17 Polystyrene Plant  
 SAMPLE POINT : Vacuum Pump 2 (จาก Devolatilizer, Recycle Receiver) SAMPLE NO. : 01689  
 SAMPLING DATE : 10/04/2023 SAMPLING TIME : 10:15-10:30  
 RECEIVED DATE : 18/04/2023 REPORTED DATE : 27/04/2023  
 TESTED DATE : 18-25/04/2023

## STACK DESCRIPTION

Height :	15.30	m	Type of Process :	Exhaust
Diameter :	0.08	m	Type of Fuel :	-
Temperature :	34.00	°C	Oxygen Content :	20.90 %
Air Velocity :	1.65	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate <sup>2</sup> :	0.01	m <sup>3</sup> /s	Atmospheric Temperature :	33.00 °C
Moisture Content :	-	%		

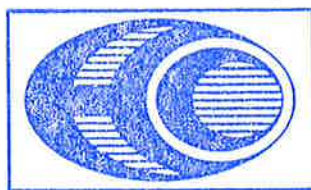
PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Styrene monomer	US.EPA Method 18	10:15-10:30	<0.45	262.0	mg/m <sup>3</sup>
			<0.11	-	ppm
			<0.000005	0.00064	g/s

**REMARK:**<sup>1</sup> ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)<sup>2</sup> WET BASIS (Actual Condition)

\* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION

OF THE DEPARTMENT OF INDUSTRIAL WORKS

(SAMPLING BY MR. TEERAPONG NAULIN)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

27/04/2023

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-0424

Report No. 6604-0254

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE POINT : Vacuum Pump 1 (จาก Reflux Receiver) SAMPLE NO. : 01690  
SAMPLING DATE : 10/04/2023 SAMPLING TIME : 10:16-10:31  
RECEIVED DATE : 18/04/2023 REPORTED DATE : 27/04/2023  
TESTED DATE : 18-25/04/2023

## STACK DESCRIPTION

Height :	15.00	m	Type of Process :	Exhaust
Diameter :	0.04	m	Type of Fuel :	-
Temperature :	35.00	°C	Oxygen Content :	20.90 %
Air Velocity :	1.76	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate <sup>2</sup> :	0.002	m <sup>3</sup> /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	-	%		

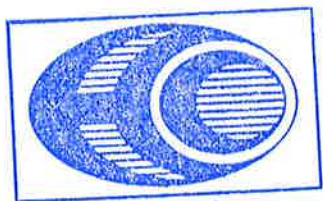
PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Styrene monomer	US.EPA Method 18	10:16-10:31	<0.45	262.0	mg/m <sup>3</sup>
			<0.11	-	ppm
			<0.000001	0.00048	g/s

**REMARK:**<sup>1</sup> ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)<sup>2</sup> WET BASIS (Actual Condition)

\* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION

OF THE DEPARTMENT OF INDUSTRIAL WORKS

(SAMPLING BY MR. TEERAPONG NAULIN)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

27/04/2023

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Request No. LA66-0424

Report No. 6604-0255

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE POINT : Die-Fume Scrubber Stack of GPPS  
SAMPLE NO. : 01691  
SAMPLING DATE : 10/04/2023  
SAMPLING TIME : 10:35-10:50  
RECEIVED DATE : 18/04/2023  
REPORTED DATE : 27/04/2023  
TESTED DATE : 18-25/04/2023

## STACK DESCRIPTION

Height :	15.30	m	Type of Process :	Exhaust
Diameter :	0.30	m	Type of Fuel :	-
Temperature :	39.00	°C	Oxygen Content :	20.90 %
Air Velocity :	1.99	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate <sup>2</sup> :	0.14	m <sup>3</sup> /s	Atmospheric Temperature :	35.00 °C
Moisture Content :	-	%		

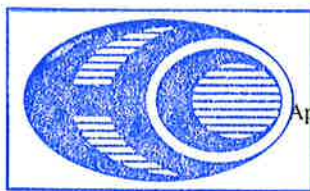
PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Styrene monomer	US.EPA Method 18	10:35-10:50	<0.45	2.7	mg/m <sup>3</sup>
			<0.11	-	ppm
			<0.00006	0.0020	g/s

**REMARK:**<sup>1</sup> ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)<sup>2</sup> WET BASIS (Actual Condition)

\* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION

OF THE DEPARTMENT OF INDUSTRIAL WORKS

(SAMPLING BY MR. TEERAPONG NAULIN)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

27/04/2023

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Request No. LA66-0424

Report No. 6604-0256

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE POINT : Pellet Dryer of GPPS  
SAMPLING DATE : 10/04/2023  
RECEIVED DATE : 18/04/2023  
TESTED DATE : 18-25/04/2023

SAMPLE NO. : 01692  
SAMPLING TIME : 10:35-10:50  
REPORTED DATE : 27/04/2023

## STACK DESCRIPTION

Height :	6.00	m	Type of Process :	Exhaust
Diameter :	0.58	m	Type of Fuel :	-
Temperature :	51.00	°C	Oxygen Content :	20.90 %
Air Velocity :	2.25	m/s	Barometric Pressure :	759.25 mm.Hg
Flow rate <sup>2</sup> :	0.60	m <sup>3</sup> /s	Atmospheric Temperature :	34.00 °C
Moisture Content :	-	%		

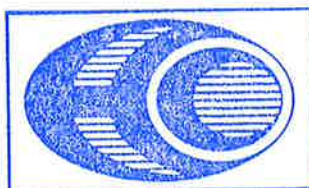
PARAMETER*	TEST METHOD	TIME	RESULT <sup>2</sup>	STD <sup>1</sup>	UNIT
Styrene monomer	US.EPA Method 18	10:35-10:50	<0.45	5.0	mg/m <sup>3</sup>
			<0.11	-	ppm
			<0.0003	0.0057	g/s

**REMARK:**<sup>1</sup> ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)<sup>2</sup> WET BASIS (Actual Condition)

\* PARAMETER OUTSIDE THE SCOPE OF THE REGISTRATION

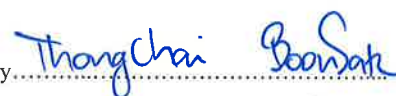
OF THE DEPARTMENT OF INDUSTRIAL WORKS

(SAMPLING BY MR. TEERAPONG NAULIN)



บริษัท อีสเทิร์นไทยคอนซัลต์ติ้ง 1992 จำกัด

Approved By



(MR. THONGCHAI BOONSAK)

27/04/2023

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

ผลการทดสอบคุณภาพอากาศในบรรยากาศ

Request No. ATR6604034

Report No. 6604-0854 - 6604-0860

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7,1-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE NAME : ริมรั้วด้านทิศเหนือของบริษัทไทยโพลีเอทิล จำกัด (TPAC)  
 RECEIVED DATE : 24/04/2023 SAMPLE NO. : A66040854 - A66040860  
 TESTED DATE : 24/04/2023-25/04/2023 REPORTED DATE : 02/05/2023

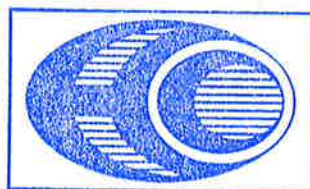
PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>/1</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	05-06/04/2023	0.041	0.33	mg/m <sup>3</sup>
		06-07/04/2023	0.048	0.33	mg/m <sup>3</sup>
		07-08/04/2023	0.047	0.33	mg/m <sup>3</sup>
		08-09/04/2023	0.025	0.33	mg/m <sup>3</sup>
		09-10/04/2023	0.022	0.33	mg/m <sup>3</sup>
		10-11/04/2023	0.029	0.33	mg/m <sup>3</sup>
		11-12/04/2023	0.034	0.33	mg/m <sup>3</sup>

## REMARK:

<sup>/1</sup> 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. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Miss Thanatporn Klinsoyon)

02/05/2023

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6604034

Report No. 6604-0868 - 6604-0874

## TEST REPORT

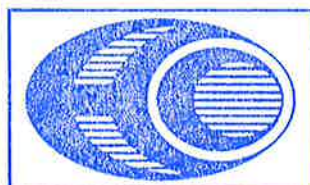
CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE NAME : ริมรั้วด้านทิศเหนือของบริษัท ไทยโพลีเอซีทิล จำกัด (TPAC)  
 RECEIVED DATE : 24/04/2023 SAMPLE NO. : A66040868 - A66040874  
 TESTED DATE : 24/04/2023-28/04/2023 REPORTED DATE : 02/05/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Styrene	Sorbent Adsorption, Gas	05-06/04/2023	< 0.16	mg/m <sup>3</sup>
			< 0.04	ppm
	Chromatography Method	06-07/04/2023	< 0.16	mg/m <sup>3</sup>
			< 0.04	ppm
		07-08/04/2023	< 0.16	mg/m <sup>3</sup>
			< 0.04	ppm
		08-09/04/2023	< 0.16	mg/m <sup>3</sup>
			< 0.04	ppm
		09-10/04/2023	< 0.16	mg/m <sup>3</sup>
			< 0.04	ppm
		10-11/04/2023	< 0.16	mg/m <sup>3</sup>
			< 0.04	ppm
		11-12/04/2023	< 0.16	mg/m <sup>3</sup>
			< 0.04	ppm

## REMARK:

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoon)

02/05/2023

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

Request No. ATR6604034

Report No. 6604-0861 - 6604-0867

## TEST REPORT

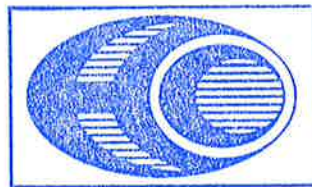
CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE NAME : ริมรั้วด้านทิศเหนือของบริษัทไทยโพลีเอทิล จำกัด (TPAC)  
 RECEIVED DATE : 24/04/2023 SAMPLE NO. : A66040861 - A66040867  
 TESTED DATE : 24/04/2023-28/04/2023 REPORTED DATE : 02/05/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Ethylbenzene	Sorbent Adsorption, Gas	05-06/04/2023	< 0.15	mg/m <sup>3</sup>
			< 0.03	ppm
	Chromatography Method	06-07/04/2023	< 0.15	mg/m <sup>3</sup>
			< 0.03	ppm
		07-08/04/2023	< 0.15	mg/m <sup>3</sup>
			< 0.03	ppm
		08-09/04/2023	< 0.15	mg/m <sup>3</sup>
			< 0.03	ppm
		09-10/04/2023	< 0.15	mg/m <sup>3</sup>
			< 0.03	ppm
		10-11/04/2023	< 0.15	mg/m <sup>3</sup>
			< 0.03	ppm
		11-12/04/2023	< 0.15	mg/m <sup>3</sup>
			< 0.03	ppm

## REMARK:

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoyon)

02/05/2023

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Request No. ATR6604034

Report No. 6604-0875 - 6604-0881

**TEST REPORT**

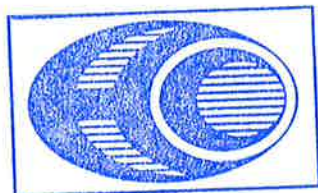
CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE NAME : โรงเรียนบ้านหนองแพบ  
 RECEIVED DATE : 24/04/2023 SAMPLE NO. : A66040875 - A66040881  
 TESTED DATE : 24/04/2023-25/04/2023 REPORTED DATE : 02/05/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD <sup>/1</sup>	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	05-06/04/2023	0.051	0.33	mg/m <sup>3</sup>
		06-07/04/2023	0.063	0.33	mg/m <sup>3</sup>
		07-08/04/2023	0.033	0.33	mg/m <sup>3</sup>
		08-09/04/2023	0.031	0.33	mg/m <sup>3</sup>
		09-10/04/2023	0.028	0.33	mg/m <sup>3</sup>
		10-11/04/2023	0.037	0.33	mg/m <sup>3</sup>
		11-12/04/2023	0.022	0.33	mg/m <sup>3</sup>

**REMARK:**<sup>/1</sup> 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. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลต์ติ้ง 1992 จำกัด

Approved By .....

(Miss Thanatporn Klinsoon)

02/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. ATR6604034

Report No. 6604-0889 - 6604-0895

## TEST REPORT

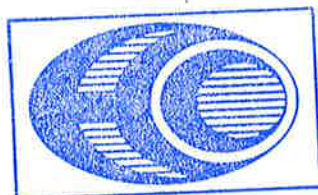
CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE NAME : โรงเรียนบ้านหนองแพบ  
 RECEIVED DATE : 24/04/2023 SAMPLE NO. : A66040889 - A66040895  
 TESTED DATE : 24/04/2023-28/04/2023 REPORTED DATE : 02/05/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Styrene	Sorbent Adsorption, Gas	05-06/04/2023	< 0.16	mg/m <sup>3</sup>
			< 0.04	ppm
	Chromatography Method	06-07/04/2023	< 0.16	mg/m <sup>3</sup>
			< 0.04	ppm
		07-08/04/2023	< 0.16	mg/m <sup>3</sup>
			< 0.04	ppm
		08-09/04/2023	< 0.16	mg/m <sup>3</sup>
			< 0.04	ppm
		09-10/04/2023	< 0.16	mg/m <sup>3</sup>
			< 0.04	ppm
		10-11/04/2023	< 0.16	mg/m <sup>3</sup>
			< 0.04	ppm
		11-12/04/2023	< 0.16	mg/m <sup>3</sup>
			< 0.04	ppm

## REMARK:

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoyon)

02/05/2023

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Request No. ATR6604034

Report No. 6604-0882 - 6604-0888

## TEST REPORT

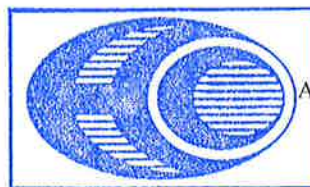
CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE NAME : โรงเรียนบ้านหนองแฟบ  
 RECEIVED DATE : 24/04/2023 SAMPLE NO. : A66040882 - A66040888  
 TESTED DATE : 24/04/2023-28/04/2023 REPORTED DATE : 02/05/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Ethylbenzene	Sorbent Adsorption, Gas	05-06/04/2023	< 0.15	mg/m <sup>3</sup>
			< 0.03	ppm
	Chromatography Method	06-07/04/2023	< 0.15	mg/m <sup>3</sup>
			< 0.03	ppm
		07-08/04/2023	< 0.15	mg/m <sup>3</sup>
			< 0.03	ppm
		08-09/04/2023	< 0.15	mg/m <sup>3</sup>
			< 0.03	ppm
		09-10/04/2023	< 0.15	mg/m <sup>3</sup>
			< 0.03	ppm
		10-11/04/2023	< 0.15	mg/m <sup>3</sup>
			< 0.03	ppm
		11-12/04/2023	< 0.15	mg/m <sup>3</sup>
			< 0.03	ppm

## REMARK:

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

(Sampling By Mr. Tummarat Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsopon)

02/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. LA66-R0469

Report No. R6604-1831 – R6604-1837

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอซีทิล จำกัด (TPAC)  
 PARAMETER\* : Sulfur Dioxide SAMPLE NO. : 05702-05708  
 DETERMINATION METHOD : UV-Fluorescence SAMPLING DATE : 05-12/04/2023  
 INSTRUMENT : API Model M100E S/N 3137 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
10:00 – 11:00 <sup>3</sup>	0.005	0.004	0.004	ppm
11:00 – 12:00	0.004	0.004	0.004	ppm
12:00 – 13:00	0.004	0.004	0.004	ppm
13:00 – 14:00	0.004	0.004	0.004	ppm
14:00 – 15:00	0.004	0.004	0.003	ppm
15:00 – 16:00	0.004	0.004	0.003	ppm
16:00 – 17:00	0.004	0.004	0.004	ppm
17:00 – 18:00	0.004	0.004	0.004	ppm
18:00 – 19:00	0.004	0.004	0.003	ppm
19:00 – 20:00	0.004	0.004	0.004	ppm
20:00 – 21:00	0.004	0.004	0.004	ppm
21:00 – 22:00	0.004	0.004	0.004	ppm
22:00 – 23:00	0.004	0.004	0.004	ppm
23:00 – 00:00	0.004	0.004	0.004	ppm
00:00 – 01:00	0.005	0.004	0.004	ppm
01:00 – 02:00	0.004	0.004	0.004	ppm
02:00 – 03:00	0.004	0.004	0.005	ppm
03:00 – 04:00	0.004	0.004	0.005	ppm
04:00 – 05:00	0.004	0.004	0.008	ppm
05:00 – 06:00	0.005	0.004	0.006	ppm
06:00 – 07:00	0.005	0.004	0.007	ppm
07:00 – 08:00	0.005	0.005	0.007	ppm
08:00 – 09:00	0.004	0.004	0.007	ppm
09:00 – 10:00	0.004	0.004	0.007	ppm
Maximum 1 hr.	0.005	0.005	0.008	ppm
Average 24 hr.	0.004	0.004	0.005	ppm
Standard (1 hr.) <sup>1</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2</sup>	0.12	0.12	0.12	ppm

REMARK : <sup>1</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)<sup>2</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)<sup>3</sup> Start Time\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarat Phorankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By   
(MS. THANATPORN KLINSOPON)

26/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. LA66-R0469

Report No. R6604-1831 – R6604-1837

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอซีทิล จำกัด (TPAC)  
PARAMETER\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : API Model M100E S/N 3137

SAMPLE NO. : 05702-05708  
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
10:00 – 11:00 <sup>3</sup>	0.006	0.006	0.006	ppm
11:00 – 12:00	0.006	0.007	0.006	ppm
12:00 – 13:00	0.006	0.006	0.007	ppm
13:00 – 14:00	0.006	0.006	0.006	ppm
14:00 – 15:00	0.006	0.006	0.006	ppm
15:00 – 16:00	0.006	0.006	0.006	ppm
16:00 – 17:00	0.006	0.006	0.006	ppm
17:00 – 18:00	0.006	0.006	0.006	ppm
18:00 – 19:00	0.006	0.006	0.006	ppm
19:00 – 20:00	0.006	0.006	0.006	ppm
20:00 – 21:00	0.006	0.006	0.006	ppm
21:00 – 22:00	0.006	0.006	0.006	ppm
22:00 – 23:00	0.006	0.006	0.006	ppm
23:00 – 00:00	0.006	0.006	0.006	ppm
00:00 – 01:00	0.006	0.006	0.006	ppm
01:00 – 02:00	0.006	0.006	0.006	ppm
02:00 – 03:00	0.006	0.006	0.006	ppm
03:00 – 04:00	0.006	0.006	0.006	ppm
04:00 – 05:00	0.006	0.006	0.006	ppm
05:00 – 06:00	0.006	0.006	0.006	ppm
06:00 – 07:00	0.006	0.006	0.006	ppm
07:00 – 08:00	0.006	0.006	0.006	ppm
08:00 – 09:00	0.006	0.006	0.006	ppm
09:00 – 10:00	0.006	0.006	0.006	ppm
Maximum 1 hr.	0.006	0.007	0.007	ppm
Average 24 hr.	0.006	0.006	0.006	ppm
Standard (1 hr.) <sup>1</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2</sup>	0.12	0.12	0.12	ppm

REMARK : <sup>1</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)<sup>2</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)<sup>3</sup> Start Time\* Parameter Outside The Scope of The Registration 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-R0469

Report No. R6604-1831 – R6604-1837

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอธีล จำกัด (TPAC)  
 PARAMETER\* : Sulfur Dioxide SAMPLE NO. : 05702-05708  
 DETERMINATION METHOD : UV-Fluorescence SAMPLING DATE : 05-12/04/2023  
 INSTRUMENT : API Model M100E S/N 3137 RECEIVED DATE : 12/04/2023  
 REPORTED DATE : 26/04/2023

TIME / DATE	11-12/04/2023	UNIT
10:00 – 11:00 <sup>3</sup>	0.006	ppm
11:00 – 12:00	0.009	ppm
12:00 – 13:00	0.007	ppm
13:00 – 14:00	0.006	ppm
14:00 – 15:00	0.004	ppm
15:00 – 16:00	0.004	ppm
16:00 – 17:00	0.004	ppm
17:00 – 18:00	0.004	ppm
18:00 – 19:00	0.004	ppm
19:00 – 20:00	0.004	ppm
20:00 – 21:00	0.004	ppm
21:00 – 22:00	0.004	ppm
22:00 – 23:00	0.004	ppm
23:00 – 00:00	0.004	ppm
00:00 – 01:00	0.005	ppm
01:00 – 02:00	0.005	ppm
02:00 – 03:00	0.008	ppm
03:00 – 04:00	0.006	ppm
04:00 – 05:00	0.007	ppm
05:00 – 06:00	0.007	ppm
06:00 – 07:00	0.007	ppm
07:00 – 08:00	0.006	ppm
08:00 – 09:00	0.006	ppm
09:00 – 10:00	0.006	ppm
Maximum 1 hr.	0.009	ppm
Average 24 hr.	0.005	ppm
Standard (1 hr.) <sup>1</sup>	0.30	ppm
Standard (Average 24 hr.) <sup>2</sup>	0.12	ppm

REMARK : <sup>1</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)  
<sup>2</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)  
<sup>3</sup> Start Time  
 \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Measurement By Mr. Tummarut Phosankham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS, THANATPORN KLINSOPON)

26/04/2023

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Request No. LA66-R0469

Report No. R6604-1845 – R6604-1851

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : โรงเรียนบ้านหนองแพบ  
PARAMETER\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : API Model T100 S/N 5701

SAMPLE NO. : 05716-05722  
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 <sup>3</sup>	0.024	0.040	0.049	ppm
12:00 – 13:00	0.030	0.040	0.054	ppm
13:00 – 14:00	0.035	0.041	0.042	ppm
14:00 – 15:00	0.021	0.041	0.043	ppm
15:00 – 16:00	0.023	0.041	0.043	ppm
16:00 – 17:00	0.026	0.040	0.042	ppm
17:00 – 18:00	0.028	0.041	0.042	ppm
18:00 – 19:00	0.030	0.041	0.042	ppm
19:00 – 20:00	0.032	0.040	0.042	ppm
20:00 – 21:00	0.033	0.041	0.043	ppm
21:00 – 22:00	0.035	0.042	0.042	ppm
22:00 – 23:00	0.035	0.039	0.042	ppm
23:00 – 00:00	0.036	0.045	0.043	ppm
00:00 – 01:00	0.037	0.047	0.042	ppm
01:00 – 02:00	0.038	0.042	0.042	ppm
02:00 – 03:00	0.038	0.041	0.042	ppm
03:00 – 04:00	0.038	0.042	0.042	ppm
04:00 – 05:00	0.039	0.042	0.042	ppm
05:00 – 06:00	0.039	0.042	0.042	ppm
06:00 – 07:00	0.039	0.042	0.041	ppm
07:00 – 08:00	0.040	0.042	0.041	ppm
08:00 – 09:00	0.040	0.039	0.041	ppm
09:00 – 10:00	0.041	0.040	0.042	ppm
10:00 – 11:00	0.040	0.045	0.043	ppm
Maximum 1 hr.	0.041	0.047	0.054	ppm
Average 24 hr.	0.034	0.041	0.043	ppm
Standard (1 hr.) <sup>1</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2</sup>	0.12	0.12	0.12	ppm

REMARK : <sup>1</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)<sup>2</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)<sup>3</sup> Start Time\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarut Phutankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By: 

(MS. THANATPORN KLINSOPON)

26/04/2023

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Request No. LA66-R0469

Report No. R6604-1845 – R6604-1851

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : โรงเรียนบ้านหนองแฟบ  
 PARAMETER\* : Sulfur Dioxide SAMPLE NO. : 05716-05722  
 DETERMINATION METHOD : UV-Fluorescence SAMPLING DATE : 05-12/04/2023  
 INSTRUMENT : API Model T100 S/N 5701 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 <sup>3</sup>	0.043	0.049	0.053	ppm
12:00 – 13:00	0.042	0.051	0.053	ppm
13:00 – 14:00	0.038	0.052	0.053	ppm
14:00 – 15:00	0.038	0.050	0.053	ppm
15:00 – 16:00	0.038	0.049	0.054	ppm
16:00 – 17:00	0.040	0.050	0.053	ppm
17:00 – 18:00	0.042	0.050	0.053	ppm
18:00 – 19:00	0.044	0.049	0.053	ppm
19:00 – 20:00	0.046	0.050	0.054	ppm
20:00 – 21:00	0.042	0.050	0.053	ppm
21:00 – 22:00	0.050	0.051	0.054	ppm
22:00 – 23:00	0.046	0.050	0.054	ppm
23:00 – 00:00	0.049	0.050	0.053	ppm
00:00 – 01:00	0.049	0.051	0.051	ppm
01:00 – 02:00	0.050	0.051	0.051	ppm
02:00 – 03:00	0.049	0.051	0.050	ppm
03:00 – 04:00	0.049	0.051	0.050	ppm
04:00 – 05:00	0.048	0.053	0.051	ppm
05:00 – 06:00	0.049	0.053	0.050	ppm
06:00 – 07:00	0.051	0.053	0.050	ppm
07:00 – 08:00	0.049	0.053	0.049	ppm
08:00 – 09:00	0.048	0.053	0.050	ppm
09:00 – 10:00	0.050	0.053	0.048	ppm
10:00 – 11:00	0.050	0.053	0.049	ppm
Maximum 1 hr.	0.051	0.053	0.054	ppm
Average 24 hr.	0.046	0.051	0.052	ppm
Standard (1 hr.) <sup>1</sup>	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) <sup>2</sup>	0.12	0.12	0.12	ppm

## REMARK :

<sup>1</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)<sup>2</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)<sup>3</sup> Start Time\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarut Photankharn)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By..

(MS. THANATPORN KLINSOPON)

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-R0469

Report No. R6604-1845 – R6604-1851

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : โรงเรียนบ้านหนองแฟบ  
PARAMETER\* : Sulfur Dioxide  
DETERMINATION METHOD : UV-Fluorescence  
INSTRUMENT : API Model T100 S/N 5701

SAMPLE NO. : 05716-05722  
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 <sup>3</sup>	0.049	ppm
12:00 – 13:00	0.050	ppm
13:00 – 14:00	0.050	ppm
14:00 – 15:00	0.051	ppm
15:00 – 16:00	0.051	ppm
16:00 – 17:00	0.050	ppm
17:00 – 18:00	0.050	ppm
18:00 – 19:00	0.050	ppm
19:00 – 20:00	0.051	ppm
20:00 – 21:00	0.050	ppm
21:00 – 22:00	0.051	ppm
22:00 – 23:00	0.050	ppm
23:00 – 00:00	0.050	ppm
00:00 – 01:00	0.050	ppm
01:00 – 02:00	0.050	ppm
02:00 – 03:00	0.051	ppm
03:00 – 04:00	0.051	ppm
04:00 – 05:00	0.050	ppm
05:00 – 06:00	0.051	ppm
06:00 – 07:00	0.051	ppm
07:00 – 08:00	0.051	ppm
08:00 – 09:00	0.050	ppm
09:00 – 10:00	0.049	ppm
10:00 – 11:00	0.046	ppm
Maximum 1 hr.	0.051	ppm
Average 24 hr.	0.050	ppm
Standard (1 hr.) <sup>1</sup>	0.30	ppm
Standard (Average 24 hr.) <sup>2</sup>	0.12	ppm

## REMARK :

<sup>1</sup> Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)<sup>2</sup> Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)<sup>3</sup> Start Time\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarut Phorakham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

26/04/2023

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Request No. LA66-R0469

Report No. R6604-I838 – R6604-I844

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอซีที จำกัด (TPAC)  
 PARAMETER\* : Nitrogen Dioxide SAMPLE NO. : 05709-05715  
 DETERMINATION METHOD : Chemiluminescence SAMPLING DATE : 05-12/04/2023  
 INSTRUMENT : API Model M200E S/N 4084 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
10:00 – 11:00 <sup>2</sup>	0.004	0.006	0.004	ppm
11:00 – 12:00	0.003	0.006	0.009	ppm
12:00 – 13:00	0.005	0.009	0.010	ppm
13:00 – 14:00	0.003	0.005	0.006	ppm
14:00 – 15:00	0.003	0.002	0.004	ppm
15:00 – 16:00	0.004	0.004	0.009	ppm
16:00 – 17:00	0.004	0.005	0.004	ppm
17:00 – 18:00	0.004	0.005	0.005	ppm
18:00 – 19:00	0.004	0.005	0.005	ppm
19:00 – 20:00	0.004	0.005	0.005	ppm
20:00 – 21:00	0.004	0.004	0.002	ppm
21:00 – 22:00	0.001	0.004	0.006	ppm
22:00 – 23:00	0.006	0.003	0.005	ppm
23:00 – 00:00	0.004	0.004	0.007	ppm
00:00 – 01:00	0.007	0.003	0.005	ppm
01:00 – 02:00	0.004	0.005	0.001	ppm
02:00 – 03:00	0.005	0.004	0.002	ppm
03:00 – 04:00	0.005	0.004	0.002	ppm
04:00 – 05:00	0.005	0.005	0.004	ppm
05:00 – 06:00	0.005	0.005	0.004	ppm
06:00 – 07:00	0.005	0.005	0.003	ppm
07:00 – 08:00	0.004	0.004	0.002	ppm
08:00 – 09:00	0.002	0.004	0.003	ppm
09:00 – 10:00	0.006	0.004	0.002	ppm
Maximum 1 hr.	0.007	0.009	0.010	ppm
Average 24 hr.	0.004	0.004	0.004	ppm
Standard (1 hr.) <sup>1</sup>	0.17	0.17	0.17	ppm

## REMARK :

<sup>1</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)<sup>2</sup> Start Time

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MS. THANATPORN KLINSOPON)

26/04/2023

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

Request No. LA66-R0469

Report No. R6604-1838 – R6604-1844

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอซีที จำกัด (TPAC)  
PARAMETER\* : Nitrogen Dioxide SAMPLE NO. : 05709-05715  
DETERMINATION METHOD : Chemiluminescence SAMPLING DATE : 05-12/04/2023  
INSTRUMENT : API Model M200E S/N 4084 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
10:00 – 11:00 <sup>2</sup>	0.006	0.006	0.005	ppm
11:00 – 12:00	0.006	0.005	0.006	ppm
12:00 – 13:00	0.003	0.005	0.006	ppm
13:00 – 14:00	0.004	0.006	0.006	ppm
14:00 – 15:00	0.005	0.006	0.007	ppm
15:00 – 16:00	0.005	0.006	0.007	ppm
16:00 – 17:00	0.005	0.005	0.007	ppm
17:00 – 18:00	0.005	0.005	0.006	ppm
18:00 – 19:00	0.005	0.005	0.007	ppm
19:00 – 20:00	0.005	0.006	0.007	ppm
20:00 – 21:00	0.005	0.006	0.006	ppm
21:00 – 22:00	0.005	0.006	0.007	ppm
22:00 – 23:00	0.005	0.006	0.006	ppm
23:00 – 00:00	0.006	0.006	0.007	ppm
00:00 – 01:00	0.005	0.006	0.007	ppm
01:00 – 02:00	0.005	0.006	0.007	ppm
02:00 – 03:00	0.005	0.006	0.007	ppm
03:00 – 04:00	0.005	0.006	0.007	ppm
04:00 – 05:00	0.005	0.007	0.007	ppm
05:00 – 06:00	0.005	0.006	0.007	ppm
06:00 – 07:00	0.004	0.006	0.007	ppm
07:00 – 08:00	0.005	0.006	0.007	ppm
08:00 – 09:00	0.005	0.005	0.007	ppm
09:00 – 10:00	0.006	0.004	0.007	ppm
Maximum 1 hr.	0.006	0.007	0.007	ppm
Average 24 hr.	0.005	0.006	0.007	ppm
Standard (1 hr.) <sup>1</sup>	0.17	0.17	0.17	ppm

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

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MS. THANATPORN KLINSOPON)

26/04/2023

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Request No. LA66-R0469

Report No. R6604-1838 – R6604-1844

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอซีที จำกัด (TPAC)  
 PARAMETER\* : Nitrogen Dioxide SAMPLE NO. : 05709-05715  
 DETERMINATION METHOD : Chemiluminescence SAMPLING DATE : 05-12/04/2023  
 INSTRUMENT : API Model M200E S/N 4084 RECEIVED DATE : 12/04/2023  
 REPORTED DATE : 26/04/2023

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

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

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By


  
(MS. THANATPORN KLINSOPON)

26/04/2023

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Request No. LA66-R0469

Report No. R6604-1852 – R6604-1858

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : โรงเรียนบ้านหนองแฟบ  
PARAMETER\* : Nitrogen Dioxide  
DETERMINATION METHOD : Chemiluminescence  
INSTRUMENT : Ecotech Model ML9841A S/N 03-0029

SAMPLE NO. : 05723-05729  
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 <sup>2</sup>	0.001	0.005	0.005	ppm
12:00 – 13:00	0.001	0.001	0.004	ppm
13:00 – 14:00	0.001	0.001	0.003	ppm
14:00 – 15:00	0.001	0.001	0.001	ppm
15:00 – 16:00	0.001	0.001	0.005	ppm
16:00 – 17:00	0.001	0.001	0.006	ppm
17:00 – 18:00	0.001	0.001	0.005	ppm
18:00 – 19:00	0.002	0.001	0.002	ppm
19:00 – 20:00	0.002	0.001	0.002	ppm
20:00 – 21:00	0.002	0.001	0.003	ppm
21:00 – 22:00	0.002	0.001	0.004	ppm
22:00 – 23:00	0.001	0.001	0.005	ppm
23:00 – 00:00	0.001	0.001	0.003	ppm
00:00 – 01:00	0.001	0.001	0.002	ppm
01:00 – 02:00	0.001	0.001	0.001	ppm
02:00 – 03:00	0.001	0.001	0.001	ppm
03:00 – 04:00	0.001	0.001	0.002	ppm
04:00 – 05:00	0.001	0.001	0.002	ppm
05:00 – 06:00	0.002	0.001	0.001	ppm
06:00 – 07:00	0.001	0.001	0.001	ppm
07:00 – 08:00	0.001	0.001	0.001	ppm
08:00 – 09:00	0.002	0.002	0.003	ppm
09:00 – 10:00	0.001	0.002	0.002	ppm
10:00 – 11:00	0.004	0.001	0.002	ppm
Maximum 1 hr.	0.004	0.005	0.006	ppm
Average 24 hr.	0.001	0.001	0.003	ppm
Standard (1 hr.) <sup>1</sup>	0.17	0.17	0.17	ppm

REMARK : <sup>1</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)<sup>2</sup> Start Time\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarat Phoonkham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

26/04/2023

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Request No. LA66-R0469

Report No. R6604-1852 – R6604-1858

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : โรงเรียนบ้านหนองแฟบ  
PARAMETER\* : Nitrogen Dioxide  
DETERMINATION METHOD : Chemiluminescence  
INSTRUMENT : Ecotech Model ML9841A S/N 03-0029

SAMPLE NO. : 05723-05729  
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 <sup>2</sup>	0.004	0.001	0.001	ppm
12:00 – 13:00	0.002	0.001	0.001	ppm
13:00 – 14:00	0.002	0.001	0.001	ppm
14:00 – 15:00	0.001	0.001	0.001	ppm
15:00 – 16:00	0.001	0.001	0.001	ppm
16:00 – 17:00	0.001	0.001	0.001	ppm
17:00 – 18:00	0.001	0.001	0.001	ppm
18:00 – 19:00	0.001	0.001	0.001	ppm
19:00 – 20:00	0.001	0.001	0.001	ppm
20:00 – 21:00	0.001	0.001	0.001	ppm
21:00 – 22:00	0.001	0.001	0.001	ppm
22:00 – 23:00	0.001	0.001	0.002	ppm
23:00 – 00:00	0.001	0.002	0.001	ppm
00:00 – 01:00	0.001	0.002	0.002	ppm
01:00 – 02:00	0.001	0.002	0.002	ppm
02:00 – 03:00	0.001	0.002	0.002	ppm
03:00 – 04:00	0.001	0.002	0.002	ppm
04:00 – 05:00	0.002	0.002	0.002	ppm
05:00 – 06:00	0.001	0.002	0.002	ppm
06:00 – 07:00	0.001	0.001	0.002	ppm
07:00 – 08:00	0.001	0.001	0.001	ppm
08:00 – 09:00	0.001	0.002	0.001	ppm
09:00 – 10:00	0.001	0.002	0.001	ppm
10:00 – 11:00	0.001	0.001	0.001	ppm
Maximum 1 hr.	0.004	0.002	0.002	ppm
Average 24 hr.	0.001	0.001	0.001	ppm
Standard (1 hr.) <sup>1</sup>	0.17	0.17	0.17	ppm

## REMARK :

<sup>1</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)<sup>2</sup> Start Time\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Measurement By Mr. Tummarat Phatankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

26/04/2023

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Request No. LA66-R0469

Report No. R6604-1852 – R6604-1858

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : โรงเรียนบ้านหนองแฟบ  
PARAMETER\* : Nitrogen Dioxide  
DETERMINATION METHOD : Chemiluminescence  
INSTRUMENT : Ecotech Model ML9841A S/N 03-0029

SAMPLE NO. : 05723-05729  
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 <sup>2</sup>	0.001	ppm
12:00 – 13:00	0.001	ppm
13:00 – 14:00	0.001	ppm
14:00 – 15:00	0.001	ppm
15:00 – 16:00	0.001	ppm
16:00 – 17:00	0.001	ppm
17:00 – 18:00	0.001	ppm
18:00 – 19:00	0.001	ppm
19:00 – 20:00	0.001	ppm
20:00 – 21:00	0.002	ppm
21:00 – 22:00	0.001	ppm
22:00 – 23:00	0.001	ppm
23:00 – 00:00	0.001	ppm
00:00 – 01:00	0.001	ppm
01:00 – 02:00	0.002	ppm
02:00 – 03:00	0.002	ppm
03:00 – 04:00	0.001	ppm
04:00 – 05:00	0.002	ppm
05:00 – 06:00	0.002	ppm
06:00 – 07:00	0.002	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	0.001	ppm
Maximum 1 hr.	0.002	ppm
Average 24 hr.	0.001	ppm
Standard (1 hr.) <sup>1</sup>	0.17	ppm

## REMARK :

<sup>1</sup> Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)<sup>2</sup> Start Time

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By, 

(MS. THANATPORN KLINSOPON)

26/04/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Wind Speed &amp; Wind Direction

Request No. LA66-R0469

PTT Global Chemical Public Company Limited Branch 17 (GC 17 Polystyrene Plant)

Sample No. 05702

Sampling Source : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอซีที จำกัด (TPAC)

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
10:00-11:00	1.8	SW	1.3	SE	2.7	SW	1.3	ESE	2.2	SW	2.2	SW	2.7	SW
11:00-12:00	0.4	SW	1.8	ESE	1.8	E	1.8	ESE	2.2	SW	2.7	SW	2.7	SW
12:00-13:00	2.7	SW	1.8	SE	0.4	N	2.2	SW	2.7	SW	2.7	SW	3.1	SW
13:00-14:00	2.7	SW	1.8	S	0.0	-	3.1	SW	3.1	SW	3.1	SW	2.7	SW
14:00-15:00	2.7	SW	3.1	SW	0.0	-	3.6	SW	3.1	SW	3.1	SW	2.7	SW
15:00-16:00	1.8	SW	3.6	SW	0.4	SW	3.6	SW	3.1	SW	3.6	SW	2.7	SW
16:00-17:00	2.7	SW	2.7	SW	0.9	S	3.1	SW	3.1	SW	3.6	SW	2.7	SW
17:00-18:00	2.7	SW	3.1	SW	1.8	SW	2.2	SW	3.1	SW	3.1	SW	2.7	SW
18:00-19:00	2.2	SW	2.7	SW	2.7	SW	2.2	SW	2.7	SW	3.1	SW	2.2	SW
19:00-20:00	1.8	SW	2.2	SW	1.8	WSW	2.2	SW	2.7	SW	2.2	SW	2.2	SW
20:00-21:00	1.3	SE	2.2	SW	0.9	SW	2.7	SW	2.2	SW	2.7	SW	1.3	SW
21:00-22:00	0.4	SSE	1.8	SW	0.4	SE	1.8	SW	2.2	SW	2.7	SW	0.9	SSE
22:00-23:00	0.4	S	0.9	SW	0.4	ESE	1.8	SW	2.7	SW	2.2	SW	0.9	SSE
23:00-00:00	0.9	S	1.8	SW	0.4	E	1.8	SW	3.1	SW	2.7	SW	1.8	SW
00:00-01:00	0.4	S	2.2	SW	0.4	SE	1.8	SW	2.7	SW	3.1	SW	2.2	SW
01:00-02:00	1.8	SW	2.2	SW	0.4	SSE	1.8	SW	3.1	SW	3.1	SW	2.2	SW
02:00-03:00	2.7	SW	1.8	SW	0.9	SSW	1.3	SW	3.1	SW	3.1	SW	2.7	SW
03:00-04:00	2.2	SW	1.8	SW	0.9	S	1.8	SW	2.7	SW	3.1	SW	1.8	SW
04:00-05:00	1.8	SW	2.2	SW	1.3	SW	1.8	SW	2.7	SW	3.1	SW	1.8	SW
05:00-06:00	1.3	SW	2.7	SW	1.3	SW	1.8	SW	2.7	SW	2.7	SW	1.8	SW
06:00-07:00	1.8	SW	2.7	SW	1.3	SW	1.3	SW	2.2	SW	2.7	SW	1.8	SW
07:00-08:00	1.8	SW	2.7	SW	0.9	S	1.8	SW	1.8	SW	2.7	SW	2.2	SW
08:00-09:00	1.8	SW	2.7	SW	0.9	SW	1.8	SW	1.3	SW	2.7	SW	2.7	SW
09:00-10:00	0.9	SE	2.7	SW	0.9	ESE	2.2	SW	1.8	SW	2.7	SW	2.2	SW

## Wind Speed &amp; Wind Direction

Request No. LA66-R0469

PTT Global Chemical Public Company Limited Branch 17 (GC 17 Polystyrene Plant)

Sample No. 05701

Sampling Source : โรงเรียนบ้านหนองแฟบ

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	1.3	W	1.8	SSE	2.2	N	1.3	S	0.9	WNW	1.3	WSW	1.3	NW
12:00-13:00	0.4	W	1.8	S	0.0	-	1.3	S	1.3	WNW	1.3	WNW	1.3	WNW
13:00-14:00	1.8	W	2.2	SW	0.4	N	1.8	WSW	1.3	W	1.3	W	1.3	SSW
14:00-15:00	1.8	SW	1.8	SW	0.0	-	1.8	W	1.3	W	1.3	W	1.3	S
15:00-16:00	1.8	SW	1.8	SW	0.9	N	1.8	W	1.3	WNW	1.8	WNW	1.3	SSW
16:00-17:00	1.3	WSW	1.3	SW	1.3	SW	1.3	WNW	1.3	WNW	1.3	WNW	1.3	SSW
17:00-18:00	1.3	SW	1.3	W	0.9	WSW	1.3	WNW	1.3	WNW	1.3	NW	1.3	S
18:00-19:00	0.9	SW	0.9	W	0.4	WNW	1.3	WSW	1.3	WNW	0.9	NW	1.3	S
19:00-20:00	0.9	SSW	0.4	W	0.4	NW	0.9	WNW	0.9	WNW	1.3	NW	0.9	S
20:00-21:00	1.3	S	0.9	W	0.4	WSW	0.9	WNW	0.9	WNW	1.8	W	0.9	SE
21:00-22:00	0.9	SSE	0.9	SW	0.4	S	0.4	NW	0.4	WNW	1.3	WNW	0.9	SE
22:00-23:00	1.3	S	0.9	SSE	0.9	S	0.4	NW	0.9	WNW	0.9	WNW	0.9	SE
23:00-00:00	1.3	SSE	0.9	S	0.9	S	0.4	WNW	0.9	WNW	1.3	NW	0.9	SSW
00:00-01:00	0.9	SSE	0.9	SW	0.4	S	0.4	WSW	1.3	W	0.9	NW	1.3	SW
01:00-02:00	0.9	SW	1.3	SW	0.9	SW	0.9	WSW	1.3	WNW	1.3	NW	1.3	SSW
02:00-03:00	0.9	W	0.9	SW	0.9	SSW	0.9	W	0.9	WNW	1.3	NW	1.3	SW
03:00-04:00	0.9	WSW	0.9	SW	0.9	S	0.9	WSW	0.9	WNW	1.3	NW	0.9	SW
04:00-05:00	0.9	WSW	0.9	W	0.4	WSW	0.4	WSW	0.9	WNW	1.3	NW	1.3	SW
05:00-06:00	0.9	SW	1.3	WSW	0.4	WSW	0.9	WSW	0.9	WNW	0.9	NW	1.3	SW
06:00-07:00	0.4	SW	1.8	SW	0.4	WSW	0.4	WSW	0.4	WNW	0.9	NW	0.9	SW
07:00-08:00	0.4	SW	1.3	WSW	0.9	SW	0.0	-	0.4	WNW	0.9	NW	1.3	S
08:00-09:00	0.9	SSE	1.3	SW	0.9	S	0.4	NW	0.0	-	0.9	NNW	1.3	SSW
09:00-10:00	1.3	SSE	0.9	W	1.3	S	0.4	WNW	0.4	WNW	0.9	NW	1.3	SSE
10:00-11:00	1.3	SSE	0.9	W	1.3	S	0.4	WNW	1.3	W	1.3	WNW	1.3	SSE

## Wind Speed &amp; Wind Direction

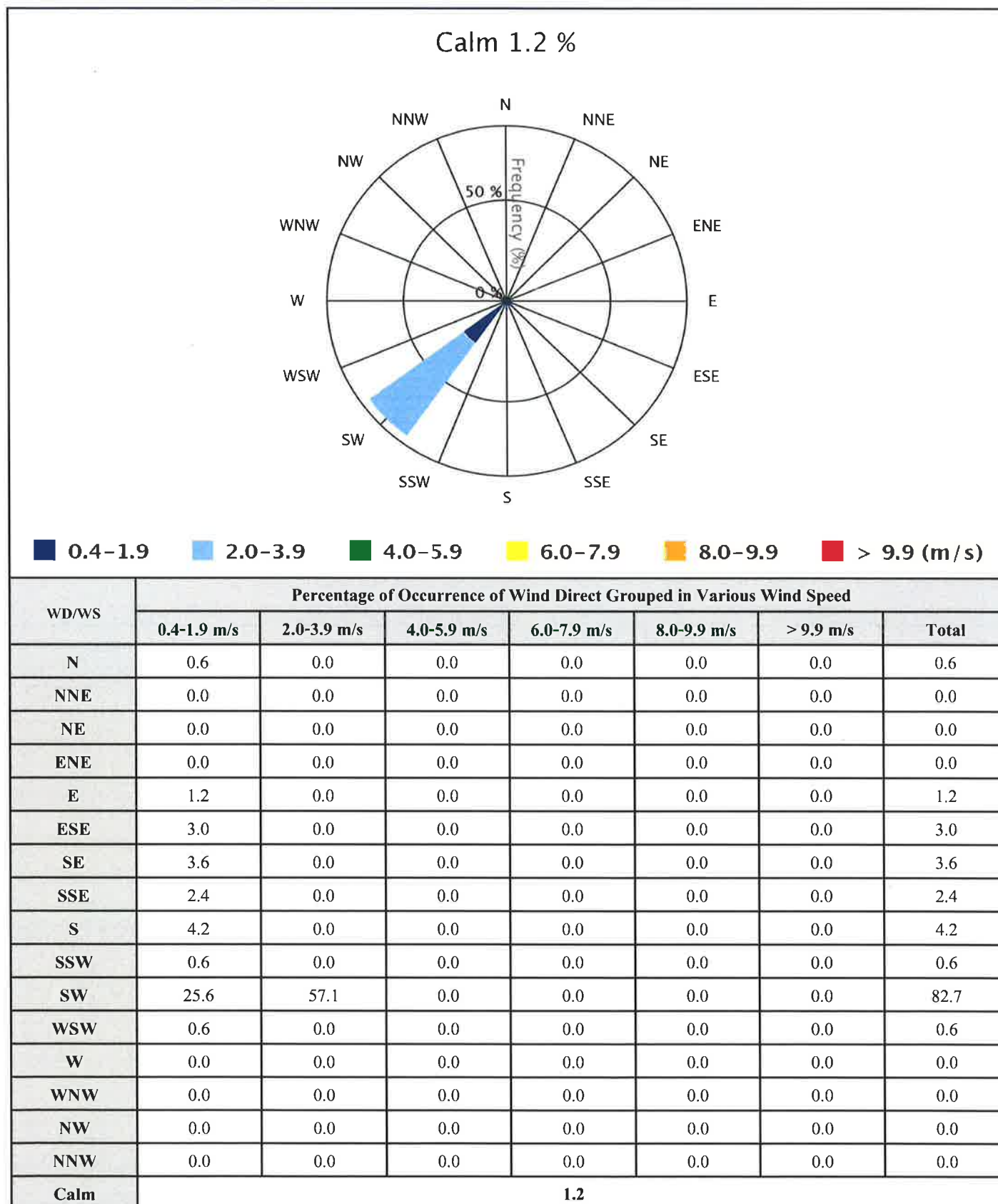
Request No. LA66-R0469

PTT Global Chemical Public Company Limited Branch 17 (GC 17 Polystyrene Plant)

Sample No. 05702

Sampling Source : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอซีที จำกัด (TPAC)

Sampling Date : April 5-12, 2023



## Wind Speed &amp; Wind Direction

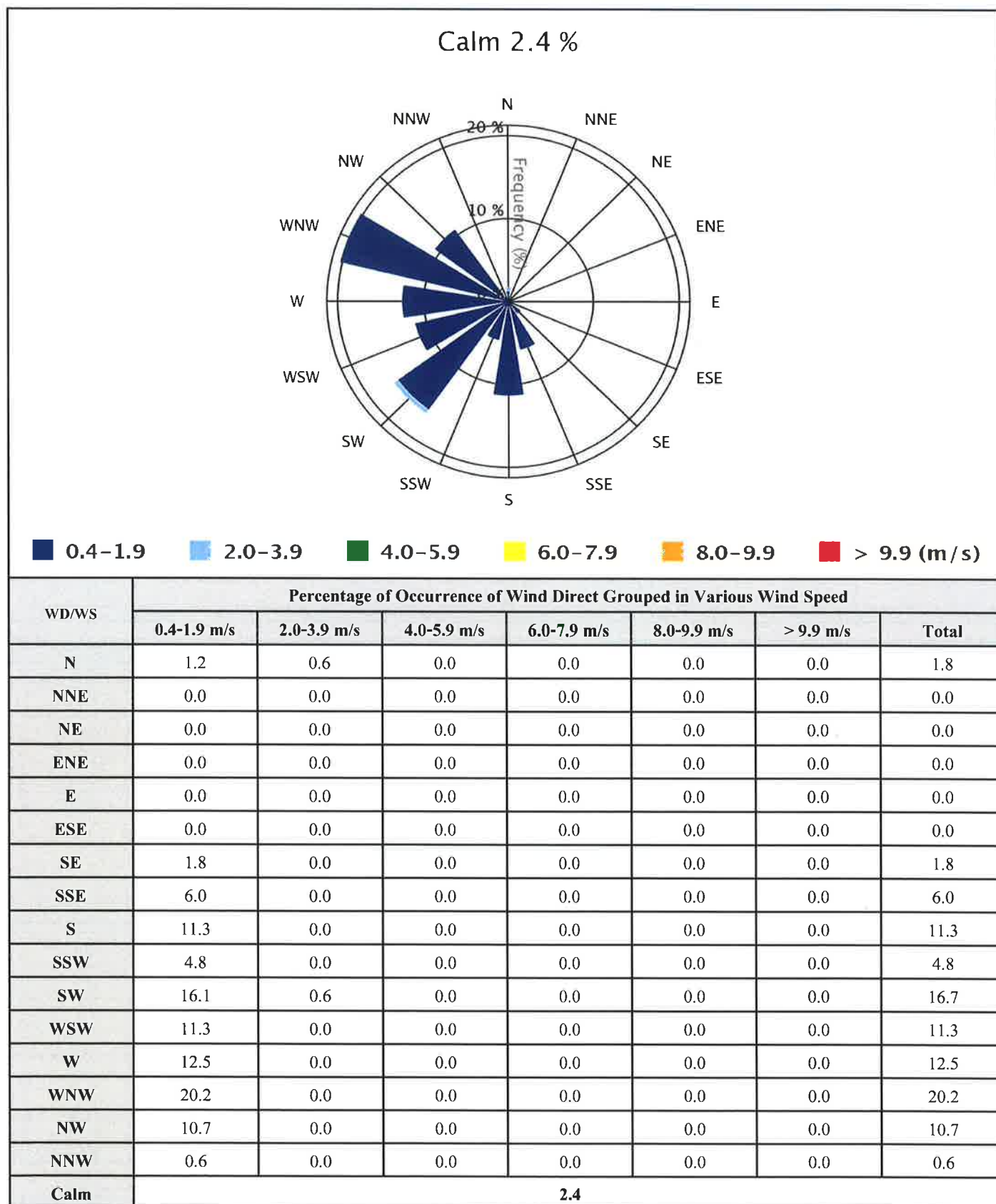
Request No. LA66-R0469

PTT Global Chemical Public Company Limited Branch 17 (GC 17 Polystyrene Plant)

Sample No. 05701

Sampling Source : โรงเรียนบ้านหนองแฟบ

Sampling Date : April 5-12, 2023



ผลการทดสอบคุณภาพน้ำทิ้ง

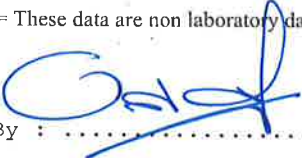
## Test Report

Customer : PTT Global Chemical Public Company Limited Branch 17\*\*  
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*  
Sampling Source : GC17 Polystyrene Plant\*\* Sample No : W 66011544  
Sample Name : บ่อพักน้ำขนาด 3.5 ลบ.ม. บริเวณจุดปล่อยน้ำทิ้ง###\*\* Sampling Date : 20/01/2023\*\*  
Sampling By : ETC\*\* Sampling Time : 9:20 AM\*\*  
Sampling Method : Grab\*\* Received Date : 21/01/2023  
Tested Date : 21/01/2023 - 27/01/2023 Reported Date : 28/01/2023


Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	6.9	≤ 20	≤20
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120	≤120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.8	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	28	≤ 40	≤40
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	5	≤ 50	≤50

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 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 TISI, # = 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-จ-5637)\*  
6. \*\* = These data are non laboratory data. / ### บ่อพักน้ำขนาด 3.5 ลบ.ม. บริเวณจุดปล่อยน้ำทิ้งจากอาคารสำนักงานและโรงอาหาร

Examined By :   
(Miss Apiradee Chuen-arom)  
(จ-003-ค-4377)  
28/01/2023



Approved By :   
(Mr. Kawee Suthasub)  
(จ-003-ค-2205)  
28/01/2023

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

## Test Report

Request No : W 6602047

Report No : 6602-0881-1

Customer : PTT Global Chemical Public Company Limited Branch 17\*\*

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*

Sampling Source : GC17 Polystyrene Plant\*\*

Sample No : W 66020189

Sample Name : บ่อพักน้ำขนาด 3.5 ลบ.ม. บริเวณจุดปล่อยน้ำทิ้ง\*\*\* Sampling Date : 01/02/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 10:25 AM\*\*

Sampling Method : Grab\*\*

Received Date : 02/02/2023

Tested Date : 02/02/2023 - 08/02/2023

Reported Date : 29/06/2023

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤ 20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120	≤ 120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤ 5
pH (on site) *		Electrometric Method	7.4	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	28	≤ 40	≤ 40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	7	≤ 50	≤ 50

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, G 0.25 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 / Mr. Kawee Suthasub is Technical Management.

5. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (จ-003-ค-7280)\*

6. \*\* = These data are non laboratory data. / ## บ่อพักน้ำขนาด 3.5 ลบ.ม. บริเวณจุดปล่อยน้ำทิ้งจากอาคารสำนักงานและโรงอาหาร

SUPPLEMENT TO TEST REPORT NO. 6602-0881

Examined By : .....

(Miss Apiradee Chuen-arom)  
(จ-003-ค-4377)  
29/06/2023



Approved By : .....

(Miss Nunnaphat Bakhuntod)  
(จ-003-ค-4367)  
29/06/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
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WITHOUT THE WRITTEN APPROVAL LABORATORY


## Test Report

Customer : PTT Global Chemical Public Company Limited Branch 17\*\*  
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*  
Sampling Source : GC17 Polyethylene Plant\*\* Sample No : W 66031607  
Sample Name : บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้ง### Sampling Date : 15/03/2023\*\*  
Sampling By : ETC\*\* Sampling Time : 11:05 AM\*\*  
Sampling Method : Grab\*\* Received Date : 16/03/2023  
Tested Date : 16/03/2023 - 24/03/2023 Reported Date : 27/03/2023

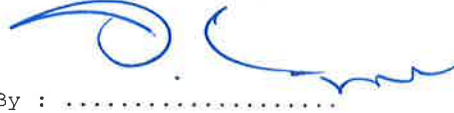
Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	9.4	≤ 20	≤ 20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120	≤ 120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤ 5
pH (on site) *		Electrometric Method	7.4	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	31	≤ 40	≤ 40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	7	≤ 50	≤ 50

Physical Apperance : 1. Sample : yellow, lightly SS  
2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 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 TISI., # = 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. Parkpoom Buasawad (ว-003-ก-7280)\*  
6. \*\* = These data are non laboratory data. /### บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้งจากอาคารสำนักงานและโรงอาหาร

Examined By :   
(Miss Apiradee Chuen-arom)  
(ว-003-ก-4377)  
27/03/2023



Approved By :   
(Mr. Kawee Suthasub)  
(ว-003-ก-2205)  
27/03/2023

## Test Report

Customer : PTT Global Chemical Public Company Limited Branch 17\*\*

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*

Sampling Source : GC17 Polyethylene Plant\*\*

Sample No : W 66040656

Sample Name : บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้ง###

Sampling Date : 05/04/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 11:30 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 <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	6.0	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	54	≤ 120	≤120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	22	≤ 300	≤300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	22	≤ 300	≤300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.8	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	33	≤ 40	≤40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	10	≤ 50	≤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, G 0.25 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 TISI., # = 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-จ-5637)\*

6. \*\* = These data are non laboratory data / ## บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้งจากอาคารสำนักงานและโรงอาหาร

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

## Test Report

Request No : W6605084

Report No : 6605-1354

Customer : PTT Global Chemical Public Company Limited Branch 17\*\*

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*

Sampling Source : GC17 Polyethylene Plant\*\*

Sample No : W 66050317

Sample Name : บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้ง###

Sampling Date : 03/05/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:10 AM\*\*

Sampling Method : Grab\*\*

Received Date : 05/05/2023

Tested Date : 05/05/2023 - 12/05/2023

Reported Date : 19/05/2023

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	9.2	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120	≤120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.3	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	29	≤ 40	≤40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	8	≤ 50	≤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 / Mr. Kawee Suthasub is Technical Management.

5. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (ว-003-จ-8334)\*

6. \*\* = These data are non laboratory data. /### บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้งจากอาคารสำนักงานและโรงอาหาร

Examined By :

(Miss Apiradee Chuen-arom)  
(ว-003-ค-4377)  
19/05/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)  
(ว-003-ค-2205)  
19/05/2023

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

## Test Report

Request No : W6606202

Report No : 6606-1709

Customer : PTT Global Chemical Public Company Limited Branch 17\*\*  
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*  
Sampling Source : GC17 Polyethylene Plant\*\* Sample No : W 66060813  
Sample Name : บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้ง### Sampling Date : 07/06/2023\*\*  
Sampling By : ETC\*\* Sampling Time : 10:15 AM\*\*  
Sampling Method : Grab\*\* Received Date : 08/06/2023  
Tested Date : 10/06/2023 - 19/06/2023 Reported Date : 19/06/2023

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	8.8	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120	≤120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	21	≤ 300	≤300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	21	≤ 300	≤300
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.6	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	31	≤ 40	≤40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	< 5	≤ 50	≤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)

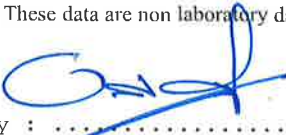
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

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

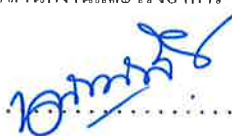
4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod Suthasub is Technical Management.

5. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (ว-003-ท-7279)\*

6. \*\* = These data are non laboratory data. ## บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้งจากอาคารสำนักงานและโรงอาหาร

Examined By :   
(Miss Apiradee Chuen-arom)  
(ว-003-ท-4377)  
19/06/2023



Approved By :   
(Miss Nunnaphat Bakhuntod)  
(ว-003-ท-4367)  
19/06/2023

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

## Test Report

Request No : W6601437

Report No : 6601-1885

Customer : PTT Global Chemical Public Company Limited Branch 17\*\*  
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*  
Sampling Source : GC17 Polystyrene Plant\*\* Sample No : W 66011545  
Sample Name : จุลินทรีย์น้ำทิ้งจาก Process (Effluent from process)\*\* Sampling Date : 20/01/2023\*\*  
Sampling By : ETC\*\* Sampling Time : 9:30 AM\*\*  
Sampling Method : Grab\*\* Received Date : 21/01/2023  
Tested Date : 21/01/2023 - 27/01/2023 Reported Date : 28/01/2023

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	7.9	≤ 20	≤20
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120	≤120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	20	≤ 300	≤300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.9	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	30	≤ 40	≤40
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5	≤ 50	≤50

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 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 TISI., # = 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-จ-5637)\*

6. \*\* = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)  
(จ-003-ค-4377)  
28/01/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)  
(จ-003-ค-2205)  
28/01/2023

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

## Test Report

Request No : W6601437

Report No : 6601 - 1885

Customer : PTT Global Chemical Public Company Limited Branch 17

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GC17 Polystyrene Plant

Sample No : W 66011545

Sample Name : จุละปนน้ำทิ้งจาก Process (Effluent from process)

Sampling Date : 20/01/2023

Sampling By : ETC

Sampling Time : 9:30 AM

Sampling Method : Grab

Received Date : 21/01/2023

Tested Date : 21/01/2023 - 27/01/2023

Reported Date : 28/01/2023

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Ethylbenzene #	mg/l	US EPA 5030C/8260C	ND	-	-
Styrene monomer #	mg/l	US EPA 5030C/8260C	ND	-	-

Physical Apperance : 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 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. # Tested by SECOT Co., Ltd.

4. ND = Non-Detectable (Ethylbenzene, Styrene monomer = &lt; 0.0002 mg/l)

5. Sampling By Mr. Supharek Phatklang (๖-003-๖-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

28/01/2023

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

## Test Report

Request No : W6602047

Report No : 6602-0882

Customer : PTT Global Chemical Public Company Limited Branch 17\*\*  
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*  
Sampling Source : GC17 Polystyrene Plant\*\* Sample No : W 66020190  
Sample Name : จุลินทรีย์น้ำทิ้งจาก Process (Effluent from Process)\*\* Sampling Date : 01/02/2023\*\*  
Sampling By : ETC\*\* Sampling Time : 10:00 AM\*\*  
Sampling Method : Grab\*\* Received Date : 02/02/2023  
Tested Date : 02/02/2023 - 10/02/2023 Reported Date : 13/02/2023

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	4.9	≤ 20	≤20
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120	≤120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	20	≤ 300	≤300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	8.0	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	30	≤ 40	≤40
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	5	≤ 50	≤50

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, G 0.25 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 TISI, # = 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. Parkpoom Buasawad (จ-003-ก-7280)\*

6. \*\* = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

13/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

13/02/2023

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



## Test Report

Request No : W6602047

Report No : 6602 - 0882

Customer : PTT Global Chemical Public Company Limited Branch 17

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GC17 Polystyrene Plant

Sample No : W 66020190

Sample Name : จุละบายน้ำทิ้งจาก Process (Effluent from Process)

Sampling Date : 01/02/2023

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 02/02/2023

Tested Date : 02/02/2023 - 10/02/2023

Reported Date : 13/02/2023

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Ethylbenzene #	mg/l	US EPA 5030C/8260C	ND	-	-
Styrene monomer #	mg/l	US EPA 5030C/8260C	ND	-	-

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 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. # Tested by SECOT Co., Ltd.

4. ND = Non-Detectable (Ethylbenzene, Styrene monomer = &lt; 0.0002 mg/l)

5. Sampling By Mr. Parkpoom Buasawad (๖-003-๓-7280)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

13/02/2023

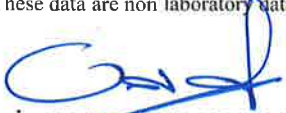
## Test Report

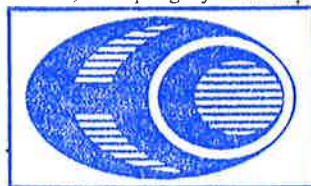
Customer : PTT Global Chemical Public Company Limited Branch 17\*\*  
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*  
Sampling Source : GC17 Polyethylene Plant\*\* Sample No : W 66031608  
Sample Name : จุลระบายน้ําทิ้งจาก Process (Effluent From Process)\*\* Sampling Date : 15/03/2023\*\*  
Sampling By : ETC\*\* Sampling Time : 11:25 AM\*\*  
Sampling Method : Grab\*\* Received Date : 16/03/2023  
Tested Date : 16/03/2023 - 03/04/2023 Reported Date : 03/04/2023

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤ 20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120	≤ 120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤ 5
pH (on site) *		Electrometric Method	7.7	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	32	≤ 40	≤ 40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	< 5	≤ 50	≤ 50


Physical Apperance : 1. Sample : yellow, lightly SS  
2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 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. Parkpoom Buasawad (จ-003-ก-7280)\*  
6. \*\* = These data are non laboratory data.

Examined By :   
(Miss Apiradee Chuen-arom)  
(จ-003-ก-4377)  
03/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :   
(Mr. Kawee Suthasub)  
(จ-003-ก-2205)  
03/04/2023

REPORTED TEST 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 17

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GC17 Polyethylene Plant

Sample No : W 66031608

Sample Name : จุละปนน้ำทิ้งจาก Process (Effluent From Process)

Sampling Date : 15/03/2023

Sampling By : ETC

Sampling Time : 11:25 AM

Sampling Method : Grab

Received Date : 16/03/2023

Tested Date : 16/03/2023 - 03/04/2023

Reported Date : 03/04/2023

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Ethylbenzene #	mg/l	US EPA 5030C/8260C	ND	-	-
Styrene monomer #	mg/l	US EPA 5030C/8260C	ND	-	-

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L ]

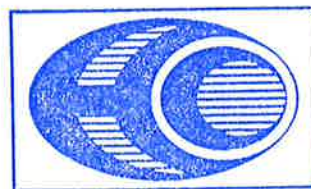
Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. # Tested by SECOT Co., Ltd.

4. ND = Non-Detectable (Ethylbenzene, Styrene monomer = &lt; 0.0002 mg/l)

5. Sampling By Mr. Parkpoom Buasawad (๖-003-๗-7280)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

03/04/2023

## Test Report

Customer : PTT Global Chemical Public Company Limited Branch 17\*\*  
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*  
Sampling Source : GC17 Polyethylene Plant\*\*  
Sample Name : อุตสาหกรรมน้ำทิ้งจาก Process (Effluent From Process)\*\*  
Sampling By : ETC\*\*  
Sampling Method : Grab\*\*  
Tested Date : 10/04/2023 - 21/04/2023

Request No : W6604171

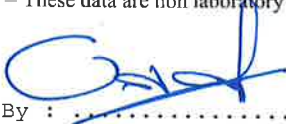
Report No : 6604-1458

Sample No : W 66040657  
Sampling Date : 05/04/2023\*\*  
Sampling Time : 11:20 AM\*\*  
Received Date : 06/04/2023  
Reported Date : 21/04/2023

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	3.6	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	48	≤ 120	≤120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	25	≤ 300	≤300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	26	≤ 300	≤300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.8	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	33	≤ 40	≤40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	< 5	≤ 50	≤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, G 0.25 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 TISI., # = 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-ท-5637)\*  
6. \*\* = These data are non laboratory data.

Examined By :   
(Miss Apiradee Chuen-arom)  
(จ-003-ท-4377)  
21/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :   
(Mr. Kawee Suthasub)  
(จ-003-ท-2205)  
21/04/2023

REPORTED TEST 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 17

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GC17 Polyethylene Plant

Sample No : W 66040657

Sample Name : จุละปนน้ำทิ้งจาก Process (Effluent From Process)

Sampling Date : 05/04/2023

Sampling By : ETC

Sampling Time : 11:20 AM

Sampling Method : Grab

Received Date : 06/04/2023

Tested Date : 10/04/2023 - 21/04/2023

Reported Date : 21/04/2023

Request No : W6604171

Report No : 6604 - 1458

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Ethylbenzene #	mg/l	US EPA 5030C/8260C	ND	-	-
Styrene monomer #	mg/l	US EPA 5030C/8260C	ND	-	-

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L ]

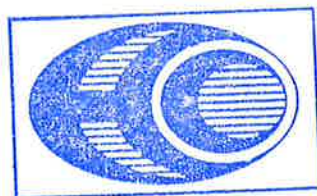
Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. # Tested by SECOT Co., Ltd.

4. ND = Non-Detectable (Ethylbenzene, Styrene monomer = &lt; 0.0002 mg/l)

5. Sampling By Mr. Supharek Phatklang (๖-003-๖-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

21/04/2023

## Test Report

Request No : W6605084

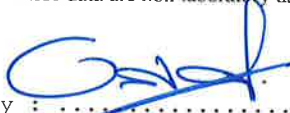
Report No : 6605-1355

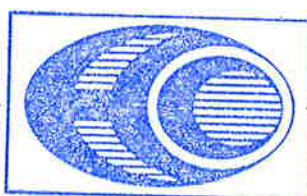
Customer : PTT Global Chemical Public Company Limited Branch 17\*\*  
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*  
Sampling Source : GC17 Polyethylene Plant\*\* Sample No : W 66050318  
Sample Name : จุลินทรีย์น้ำทิ้งจาก Process (Effluent From Process)\*\* Sampling Date : 03/05/2023\*\*  
Sampling By : ETC\*\* Sampling Time : 9:03 AM\*\*  
Sampling Method : Grab\*\* Received Date : 05/05/2023  
Tested Date : 05/05/2023 - 18/05/2023 Reported Date : 19/05/2023


Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤ 20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120	≤ 120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤ 300
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤ 5
pH (on site) *		Electrometric Method	7.4	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	28	≤ 40	≤ 40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	12	≤ 50	≤ 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 / Mr. Kawee Suthasub is Technical Management.  
5. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-ก-8334)\*  
6. \*\* = These data are non laboratory data.

Examined By :   
(Miss Apiradee Chuen-arom)  
(จ-003-ก-4377)  
19/05/2023



Approved By :   
(Mr. Kawee Suthasub)  
(จ-003-ก-2205)  
19/05/2023

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## Test Report

Request No : W6605084

Report No : 6605 - 1355

Customer : PTT Global Chemical Public Company Limited Branch 17

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GC17 Polyethylene Plant

Sample No : W 66050318

Sample Name : จุกระบายน้ำทิ้งจาก Process (Effluent From Process)

Sampling Date : 03/05/2023

Sampling By : ETC

Sampling Time : 9:03 AM

Sampling Method : Grab

Received Date : 05/05/2023

Tested Date : 05/05/2023 - 18/05/2023

Reported Date : 19/05/2023

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Ethylbenzene #	mg/l	US EPA 5030C/8260C	0.0056	-	-
Styrene monomer #	mg/l	US EPA 5030C/8260C	0.0316	-	-

Physical Apperance : 1. Sample : yellowish, lightly SS

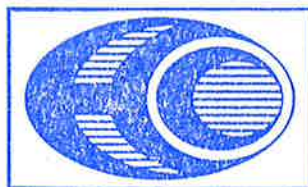
2. Container : Normal [ PE 0.5 L , PE 1.0 L , PE 1.8 L , G 1.0 L ]

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. # Tested by SECOT Co., Ltd.

4. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-ท-8334)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

19/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Test Report

Request No : W6606202

Report No : 6606-1710

Customer : PTT Global Chemical Public Company Limited Branch 17\*\*  
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*  
Sampling Source : GC17 Polyethylene Plant\*\* Sample No : W 66060814  
Sample Name : วัสดุระบายน้ำทิ้งจาก Process (Effluent From Process)\*\* Sampling Date : 07/06/2023\*\*  
Sampling By : ETC\*\* Sampling Time : 10:00 AM\*\*  
Sampling Method : Grab\*\* Received Date : 08/06/2023  
Tested Date : 10/06/2023 - 20/06/2023 Reported Date : 20/06/2023

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤ 20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 120	≤ 120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	37	≤ 300	≤ 300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	38	≤ 300	≤ 300
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤ 5
pH (on site) *		Electrometric Method	7.3	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	31	≤ 40	≤ 40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	7	≤ 50	≤ 50

Physical Apperance : 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 Suthasub is Technical Management.  
5. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwan (จ-003-ท-7279)\*  
6. \*\* = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)  
(จ-003-ท-4377)  
20/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Miss Nunnaphat Bakhuntod)  
(จ-003-ท-4367)  
20/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Test Report

Request No : W6606202

Report No : 6606 - 1710

Customer : PTT Global Chemical Public Company Limited Branch 17

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source : GC17 Polyethylene Plant

Sample No : W 66060814

Sample Name : จุกระบายน้ำทิ้งจาก Process (Effluent From Process) Sampling Date : 07/06/2023

Sampling By : ETC

Sampling Time : 10:00 AM

Sampling Method : Grab

Received Date : 08/06/2023

Tested Date : 10/06/2023 - 20/06/2023

Reported Date : 20/06/2023

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Ethylbenzene #	mg/L	US EPA 5030C/8260C	ND	-	-
Styrene monomer #	mg/L	US EPA 5030C/8260C	ND	-	-

Physical Apperance : 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. # Tested by SECOT Co., Ltd.

4. Sampling By Mr. Songpon Phiwuan (๖-003-๓-7279)

5. ND = Non-Detectable (Ethylbenzene, Styrene monomer = &lt; 0.0002 mg/L)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : .....

(Miss Apiradee Chuen-arom)

20/06/2023

## Test Report

Customer : PTT Global Chemical Public Company Limited Branch 17\*\*  
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*  
Sampling Source : GC17 Polystyrene Plant\*\*  
Sample Name : Cooling tower GPPS\*\*  
Sampling By : ETC\*\*  
Sampling Method : Grab\*\*  
Tested Date : 21/01/2023 - 27/01/2023

Request No : W6601437  
Report No : 6601-1886

Sample No : W 66011546  
Sampling Date : 20/01/2023\*\*  
Sampling Time : 9:15 AM\*\*  
Received Date : 21/01/2023  
Reported Date : 28/01/2023


Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	6.2	≤ 20	≤20
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	47	≤ 120	≤120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	8.1	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	25	≤ 40	≤40
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5	≤ 50	≤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 TISI., # = 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-003-๖-5637)\*  
6. \*\* = These data are non laboratory data.

Examined By :   
(Miss Apiradee Chuen-arom)  
(จ-003-ค-4377)  
28/01/2023



Approved By :   
(Mr. Kawee Suthasub)  
(จ-003-ค-2205)  
28/01/2023

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## Test Report

Customer : PTT Global Chemical Public Company Limited Branch 17\*\*  
Address : 7 I-I Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*  
Sampling Source : GC17 Polystyrene Plant\*\*  
Sample Name : Cooling Tower GPPS\*\*  
Sampling By : ETC\*\*  
Sampling Method : Grab\*\*  
Tested Date : 02/02/2023 - 08/02/2023

Request No : W6602047

Report No : 6602-0883

Sample No : W 66020191  
Sampling Date : 01/02/2023\*\*  
Sampling Time : 10:15 AM\*\*  
Received Date : 02/02/2023  
Reported Date : 13/02/2023

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤20
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	49	≤ 120	≤120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease @	mg/l	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	8.5	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	27	≤ 40	≤40
Total Suspended Solids #	mg/l	Dried at 103-105 C (SM:2540D)	< 5	≤ 50	≤50

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 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 TISI, # = 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. Parkpoom Buasawad (จ-003-ก-7280)\*

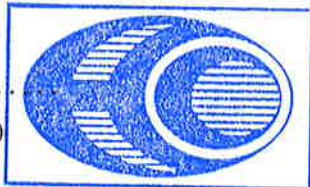
6. \*\* = These data are non laboratory data.

Examined By : .....

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

13/02/2023



Approved By : .....

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

13/02/2023

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## Test Report

Request No : W6603377

Report No : 6604-0251

Customer : PTT Global Chemical Public Company Limited Branch 17\*\*

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*

Sampling Source : GC17 Polyethylene Plant\*\*

Sample No : W 66031609

Sample Name : Cooling Tower GPPS\*\*

Sampling Date : 15/03/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 11:10 AM\*\*

Sampling Method : Grab\*\*

Received Date : 16/03/2023

Tested Date : 16/03/2023 - 24/03/2023

Reported Date : 27/03/2023

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	4.3	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	44	≤ 120	≤120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	8.1	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	32	≤ 40	≤40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	< 5	≤ 50	≤50

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 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 TISI., # = 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. Parkpoom Buasawad (จ-003-ก-7280)\*

6. \*\* = These data are non laboratory data.

Examined By : .....

(Miss Apiradee Chuen-arom)  
(จ-003-ก-4377)  
27/03p/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Mr. Kawee Suthasub)  
(จ-003-ก-2205)  
27/03/2023

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## Test Report

Request No : W6604171

Report No : 6604-1459

Customer : PTT Global Chemical Public Company Limited Branch 17\*\*

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*

Sampling Source : GC17 Polyethylene Plant\*\*

Sample No : W 66040658

Sample Name : Cooling Tower GPPS\*\*

Sampling Date : 05/04/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 11:40 AM\*\*

Sampling Method : Grab\*\*

Received Date : 06/04/2023

Tested Date : 10/04/2023 - 18/04/2023

Reported Date : 24/04/2023

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	2.1	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	54	≤ 120	≤120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	8.2	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	34	≤ 40	≤40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	7	≤ 50	≤50

Physical Apperance : 1. Sample : lightly SS

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

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 TISI., # = 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 (๖-003-๖-5637)\*

6. \*\* = These data are non laboratory data.

Examined By : .....

(Miss Apiradee Chuen-arom)

(๖-003-๖-4377)

24/04/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....

(Mr. Kawee Suthasub)

(๖-003-๖-2205)

24/04/2023

REPORTED TEST 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 17\*\*  
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*  
Sampling Source : GC17 Polyethylene Plant\*\*  
Sample Name : Cooling Tower GPPS\*\*  
Sampling By : ETC\*\*  
Sampling Method : Grab\*\*  
Tested Date : 05/05/2023 - 12/05/2023

Request No : W6605084  
Report No : 6605-1356  
Sample No : W 66050319  
Sampling Date : 03/05/2023\*\*  
Sampling Time : 9:22 AM\*\*  
Received Date : 05/05/2023  
Reported Date : 19/05/2023


Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	7.7	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	67	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	8.1	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	29	≤ 40	≤40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	20	≤ 50	≤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 / Mr. Kawee Suthasub is Technical Management.  
5. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-จ-8334)\*  
6. \*\* = These data are non laboratory data.

Examined By :   
(Miss Apiradee Chuen-arom)  
(จ-003-ก-4377)  
19/05/2023



Approved By :   
(Mr. Kawee Suthasub)  
(จ-003-ก-2205)  
19/05/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Test Report

Request No : W 6606202

Report No : 6606-1711

Customer : PTT Global Chemical Public Company Limited Branch 17\*\*

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150\*\*

Sampling Source : GC17 Polyethylene Plant\*\*

Sample No : W 66060815

Sample Name : Cooling Tower GPPS\*\*

Sampling Date : 07/06/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 10:30 AM\*\*

Sampling Method : Grab\*\*

Received Date : 08/06/2023

Tested Date : 10/06/2023 - 17/06/2023

Reported Date : 17/06/2023

Parameter	Unit	Method	Result	Standard <sup>2</sup>	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	5.9	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	45	≤ 120	≤120
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	23	≤ 300	≤300
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	23	≤ 300	≤300
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	8.0	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	32	≤ 40	≤40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	< 5	≤ 50	≤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 Suthasub is Technical Management.

5. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwan (จ-003-ก-7279)\*

6. \*\* = These data are non laboratory data

Examined By : 

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

17/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : 

(Miss Nunnaphat Bakhuntod)

(จ-003-ก-4367)

17/06/2023

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

ผลการตรวจวัดระดับเสียงโดยทั่วไป

**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ  
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 G301661 : Class 2

SAMPLE NO. : 05751  
MEASURING DATE : 05-06/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	05-06/04/2023 ( $L_{eq}$ )	05-06/04/2023 ( $L_{max}$ )	05-06/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>13</sup>	61.5	75.0	58.5	dB(A)
12:00 - 13:00	60.4	74.0	58.0	dB(A)
13:00 - 14:00	60.4	72.4	58.3	dB(A)
14:00 - 15:00	61.2	71.6	59.1	dB(A)
15:00 - 16:00	60.8	71.2	58.7	dB(A)
16:00 - 17:00	61.0	71.3	58.9	dB(A)
17:00 - 18:00	62.0	72.5	60.1	dB(A)
18:00 - 19:00	61.0	76.7	58.7	dB(A)
19:00 - 20:00	60.0	72.9	58.3	dB(A)
20:00 - 21:00	60.5	69.9	59.2	dB(A)
21:00 - 22:00	60.6	68.4	59.6	dB(A)
22:00 - 23:00	60.5	67.1	59.6	dB(A)
23:00 - 00:00	59.9	69.2	58.6	dB(A)
00:00 - 01:00	59.7	72.8	58.7	dB(A)
01:00 - 02:00	59.1	65.1	58.3	dB(A)
02:00 - 03:00	59.1	65.0	58.0	dB(A)
03:00 - 04:00	58.2	68.3	57.6	dB(A)
04:00 - 05:00	58.9	64.7	57.9	dB(A)
05:00 - 06:00	59.3	72.1	58.0	dB(A)
06:00 - 07:00	60.5	73.5	58.5	dB(A)
07:00 - 08:00	60.4	72.2	58.1	dB(A)
08:00 - 09:00	60.8	71.4	58.4	dB(A)
09:00 - 10:00	61.1	74.1	59.0	dB(A)
10:00 - 11:00	60.8	76.2	58.3	dB(A)
$L_{eq}$ 24 hr.	60.4	-	-	dB(A)
$L_{dn\#}$	66.2	-	-	dB(A)
Maximum	-	76.7	-	dB(A)
Standard	70 <sup>11</sup> , 70 <sup>12</sup>	115 <sup>11</sup> , 115 <sup>12</sup>	-	dB(A)

**REMARK :** <sup>11</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>11</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>12</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Photankhum)

<sup>13</sup> Start Time

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

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

26/4/2023

REPORTED TEST 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 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ  
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 G301661 : Class 2

SAMPLE NO. : 05752  
MEASURING DATE : 06-07/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	06-07/04/2023 ( $L_{eq}$ )	06-07/04/2023 ( $L_{max}$ )	06-07/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>1/3</sup>	59.5	75.7	56.8	dB(A)
12:00 - 13:00	59.4	74.0	57.0	dB(A)
13:00 - 14:00	60.7	73.1	58.8	dB(A)
14:00 - 15:00	61.3	77.6	59.0	dB(A)
15:00 - 16:00	60.6	76.5	58.5	dB(A)
16:00 - 17:00	60.6	77.0	58.8	dB(A)
17:00 - 18:00	60.6	71.4	59.2	dB(A)
18:00 - 19:00	60.6	73.3	59.0	dB(A)
19:00 - 20:00	60.0	67.8	58.4	dB(A)
20:00 - 21:00	60.5	69.5	59.4	dB(A)
21:00 - 22:00	60.0	69.8	59.1	dB(A)
22:00 - 23:00	59.4	66.3	58.4	dB(A)
23:00 - 00:00	59.0	68.6	58.1	dB(A)
00:00 - 01:00	59.2	64.3	58.4	dB(A)
01:00 - 02:00	58.9	65.8	58.0	dB(A)
02:00 - 03:00	58.6	63.3	58.0	dB(A)
03:00 - 04:00	58.7	66.0	57.9	dB(A)
04:00 - 05:00	59.0	65.8	58.0	dB(A)
05:00 - 06:00	60.3	77.4	58.6	dB(A)
06:00 - 07:00	61.1	71.8	59.1	dB(A)
07:00 - 08:00	61.1	74.9	58.8	dB(A)
08:00 - 09:00	61.4	75.8	58.7	dB(A)
09:00 - 10:00	62.0	79.2	59.9	dB(A)
10:00 - 11:00	65.3	80.0	61.6	dB(A)
$L_{eq}$ 24 hr.	60.6	-	-	dB(A)
$L_{dn\#}$	66.1	-	-	dB(A)
Maximum	-	80.0	-	dB(A)
Standard	70 <sup>1/1</sup> , 70 <sup>1/2</sup>	115 <sup>1/1</sup> , 115 <sup>1/2</sup>	-	dB(A)

**REMARK :** <sup>1/</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>1/2</sup> Notification of Ministry of The Industry B.E. 2548 (2005)

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

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

(Measurement By Mr. Tummarut Photankhump)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

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 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ  
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 G301661 : Class 2

SAMPLE NO. : 05753  
MEASURING DATE : 07-08/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	07-08/04/2023 ( $L_{eq}$ )	07-08/04/2023 ( $L_{max}$ )	07-08/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>1/3</sup>	62.2	74.1	59.5	dB(A)
12:00 - 13:00	61.5	76.5	59.1	dB(A)
13:00 - 14:00	61.7	74.8	59.2	dB(A)
14:00 - 15:00	61.2	74.8	58.6	dB(A)
15:00 - 16:00	61.3	72.6	59.4	dB(A)
16:00 - 17:00	61.1	75.3	59.1	dB(A)
17:00 - 18:00	61.7	72.3	59.7	dB(A)
18:00 - 19:00	61.8	73.9	59.7	dB(A)
19:00 - 20:00	61.3	75.6	59.4	dB(A)
20:00 - 21:00	60.4	71.1	58.9	dB(A)
21:00 - 22:00	59.9	69.7	58.7	dB(A)
22:00 - 23:00	60.1	71.0	58.6	dB(A)
23:00 - 00:00	59.2	73.5	58.1	dB(A)
00:00 - 01:00	59.1	65.4	58.4	dB(A)
01:00 - 02:00	59.3	67.0	58.6	dB(A)
02:00 - 03:00	59.6	66.8	59.1	dB(A)
03:00 - 04:00	59.2	65.0	58.5	dB(A)
04:00 - 05:00	59.2	63.9	58.6	dB(A)
05:00 - 06:00	60.3	68.3	59.2	dB(A)
06:00 - 07:00	61.1	71.8	59.4	dB(A)
07:00 - 08:00	61.2	77.4	58.8	dB(A)
08:00 - 09:00	60.3	70.5	58.4	dB(A)
09:00 - 10:00	60.1	70.8	58.1	dB(A)
10:00 - 11:00	60.1	76.3	58.0	dB(A)
$L_{eq}$ 24 hr.	60.6	-	-	dB(A)
$L_{dn\#}$	66.4	-	-	dB(A)
Maximum	-	77.4	-	dB(A)
Standard	70 <sup>1/1</sup> , 70 <sup>1/2</sup>	115 <sup>1/1</sup> , 115 <sup>1/2</sup>	-	dB(A)

**REMARK :** <sup>1</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>1/2</sup> Notification of Ministry of The Industry B.E. 2548 (2005)

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

(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wannan Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photanajitum)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By: 

(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

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 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ  
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 G301661 : Class 2

SAMPLE NO. : 05754  
MEASURING DATE : 08-09/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	08-09/04/2023 ( $L_{eq}$ )	08-09/04/2023 ( $L_{max}$ )	08-09/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>13</sup>	59.4	70.6	57.4	dB(A)
12:00 - 13:00	59.5	70.2	57.6	dB(A)
13:00 - 14:00	60.7	76.2	58.7	dB(A)
14:00 - 15:00	60.5	70.9	58.6	dB(A)
15:00 - 16:00	60.2	70.8	58.1	dB(A)
16:00 - 17:00	60.7	69.4	58.8	dB(A)
17:00 - 18:00	60.5	74.1	58.8	dB(A)
18:00 - 19:00	61.9	72.7	59.7	dB(A)
19:00 - 20:00	60.6	75.5	58.7	dB(A)
20:00 - 21:00	59.1	69.4	58.1	dB(A)
21:00 - 22:00	59.4	69.3	58.2	dB(A)
22:00 - 23:00	59.0	68.6	58.1	dB(A)
23:00 - 00:00	59.2	76.8	58.0	dB(A)
00:00 - 01:00	59.0	65.6	58.3	dB(A)
01:00 - 02:00	59.0	65.9	58.3	dB(A)
02:00 - 03:00	59.2	67.7	58.5	dB(A)
03:00 - 04:00	58.7	65.4	58.1	dB(A)
04:00 - 05:00	59.1	66.4	58.2	dB(A)
05:00 - 06:00	59.7	72.9	58.6	dB(A)
06:00 - 07:00	60.8	78.3	58.9	dB(A)
07:00 - 08:00	60.0	70.9	57.9	dB(A)
08:00 - 09:00	59.7	77.4	57.4	dB(A)
09:00 - 10:00	59.5	71.4	57.4	dB(A)
10:00 - 11:00	60.1	70.9	58.2	dB(A)
$L_{eq}$ 24 hr.	59.9	-	-	dB(A)
$L_{dn\#}$	65.9	-	-	dB(A)
Maximum	-	78.3	-	dB(A)
Standard	70 <sup>11</sup> , 70 <sup>12</sup>	115 <sup>11</sup> , 115 <sup>12</sup>	-	dB(A)

**REMARK :** Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

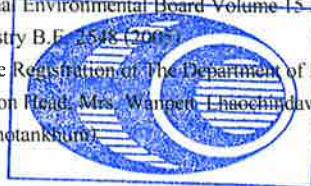
<sup>11</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>12</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

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

(Ms. Thanatporn Klinsoopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

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

26/4/2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ  
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 G301661 : Class 2

SAMPLE NO. : 05755  
MEASURING DATE : 09-10/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	09-10/04/2023 ( $L_{eq}$ )	09-10/04/2023 ( $L_{max}$ )	09-10/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>/3</sup>	59.6	73.4	57.0	dB(A)
12:00 - 13:00	59.0	70.2	57.0	dB(A)
13:00 - 14:00	59.8	75.4	57.8	dB(A)
14:00 - 15:00	60.7	81.1	58.4	dB(A)
15:00 - 16:00	59.7	69.5	57.7	dB(A)
16:00 - 17:00	60.4	72.4	58.9	dB(A)
17:00 - 18:00	60.2	69.0	58.9	dB(A)
18:00 - 19:00	61.0	68.7	59.4	dB(A)
19:00 - 20:00	59.9	71.0	58.6	dB(A)
20:00 - 21:00	60.1	66.5	59.0	dB(A)
21:00 - 22:00	60.3	79.9	58.7	dB(A)
22:00 - 23:00	60.1	72.9	59.1	dB(A)
23:00 - 00:00	59.3	73.3	58.3	dB(A)
00:00 - 01:00	59.3	69.1	58.3	dB(A)
01:00 - 02:00	59.5	68.7	58.5	dB(A)
02:00 - 03:00	59.4	65.5	58.4	dB(A)
03:00 - 04:00	58.7	63.5	58.1	dB(A)
04:00 - 05:00	59.3	67.4	58.4	dB(A)
05:00 - 06:00	59.6	72.5	58.4	dB(A)
06:00 - 07:00	61.0	72.5	59.0	dB(A)
07:00 - 08:00	60.7	73.0	58.1	dB(A)
08:00 - 09:00	60.5	72.8	58.3	dB(A)
09:00 - 10:00	61.2	72.4	59.0	dB(A)
10:00 - 11:00	61.1	77.7	59.1	dB(A)
$L_{eq}$ 24 hr.	60.1	-	-	dB(A)
$L_{dn\#}$	66.1	-	-	dB(A)
Maximum	-	81.1	-	dB(A)
Standard	$70^{/1}, 70^{/2}$	$115^{/1}, 115^{/2}$	-	dB(A)

**REMARK :**

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<sup>/1</sup> Notification of Office of The National Environmental Board Volume 13 B.E. 2540 (1997)

<sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Photankham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{y(H)}$  &  $L_{dn\#}$   
DETERMINATION METHOD : ISO 1996-1:2016  
INSTRUMENT : Integrated Sound Level Meter  
S/N G301661 : Class 2

SAMPLE NO. : 05756  
MEASURING DATE : 10-11/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	10-11/04/2023 ( $L_{eq}$ )	10-11/04/2023 ( $L_{max}$ )	10-11/04/2023 ( $L_{90}$ )#	UNIT
11:00 - 12:00 <sup>3</sup>	59.9	73.5	57.1	dB(A)
12:00 - 13:00	59.3	73.2	57.1	dB(A)
13:00 - 14:00	60.8	73.5	58.8	dB(A)
14:00 - 15:00	61.1	74.4	59.0	dB(A)
15:00 - 16:00	61.1	74.2	58.9	dB(A)
16:00 - 17:00	61.0	74.7	59.0	dB(A)
17:00 - 18:00	61.7	75.6	59.3	dB(A)
18:00 - 19:00	61.8	75.4	59.8	dB(A)
19:00 - 20:00	60.3	71.4	58.6	dB(A)
20:00 - 21:00	60.0	74.5	58.5	dB(A)
21:00 - 22:00	59.9	69.4	58.6	dB(A)
22:00 - 23:00	59.8	67.1	58.9	dB(A)
23:00 - 00:00	59.6	69.3	58.5	dB(A)
00:00 - 01:00	59.8	69.9	58.8	dB(A)
01:00 - 02:00	59.5	67.7	58.7	dB(A)
02:00 - 03:00	59.6	70.3	58.5	dB(A)
03:00 - 04:00	59.3	65.8	58.6	dB(A)
04:00 - 05:00	59.5	70.7	58.8	dB(A)
05:00 - 06:00	59.6	73.4	58.5	dB(A)
06:00 - 07:00	61.3	76.6	59.1	dB(A)
07:00 - 08:00	61.2	73.7	58.9	dB(A)
08:00 - 09:00	61.1	72.1	59.0	dB(A)
09:00 - 10:00	60.8	74.6	58.9	dB(A)
10:00 - 11:00	60.9	74.4	59.1	dB(A)
$L_{eq}$ 24 hr.	60.4	-	-	dB(A)
$L_{dn\#}$	66.4	-	-	dB(A)
Maximum	-	76.6	-	dB(A)
Standard	70 <sup>1</sup> , 70 <sup>2</sup>	115 <sup>1</sup> , 115 <sup>2</sup>	-	dB(A)

**REMARK :** Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

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

(Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankharn)

<sup>3</sup> Start Time



Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

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**TEST REPORT**

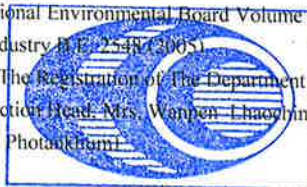
CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90\#}$  &  $L_{dn\#}$   
DETERMINATION METHOD : ISO 1996-1:2016  
INSTRUMENT : Integrated Sound Level Meter  
S/N G301661 : Class 2

SAMPLE NO. : 05757  
MEASURING DATE : 11-12/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023


TIME \ DATE	11-12/04/2023 ( $L_{eq}$ )	11-12/04/2023 ( $L_{max}$ )	11-12/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>23</sup>	60.1	77.0	57.8	dB(A)
12:00 - 13:00	59.1	71.6	57.4	dB(A)
13:00 - 14:00	60.7	74.1	58.8	dB(A)
14:00 - 15:00	60.6	71.5	58.6	dB(A)
15:00 - 16:00	60.7	78.6	58.4	dB(A)
16:00 - 17:00	60.4	72.3	58.6	dB(A)
17:00 - 18:00	61.2	73.3	59.2	dB(A)
18:00 - 19:00	61.5	72.5	60.0	dB(A)
19:00 - 20:00	60.8	68.6	59.4	dB(A)
20:00 - 21:00	60.1	71.7	58.7	dB(A)
21:00 - 22:00	59.6	71.2	58.6	dB(A)
22:00 - 23:00	59.2	68.8	58.4	dB(A)
23:00 - 00:00	59.6	66.9	58.9	dB(A)
00:00 - 01:00	59.3	72.9	58.5	dB(A)
01:00 - 02:00	59.4	70.5	58.5	dB(A)
02:00 - 03:00	59.0	66.1	58.2	dB(A)
03:00 - 04:00	59.0	66.7	58.3	dB(A)
04:00 - 05:00	59.1	65.9	58.3	dB(A)
05:00 - 06:00	59.3	68.7	58.3	dB(A)
06:00 - 07:00	60.8	71.0	59.0	dB(A)
07:00 - 08:00	61.2	75.0	59.1	dB(A)
08:00 - 09:00	60.6	70.6	58.7	dB(A)
09:00 - 10:00	60.6	67.1	59.1	dB(A)
10:00 - 11:00	61.2	74.6	59.5	dB(A)
$L_{eq}$ 24 hr.	60.2	-	-	dB(A)
$L_{dn\#}$	66.0	-	-	dB(A)
Maximum	-	78.6	-	dB(A)
Standard	$70^{1/1}, 70^{2/2}$	$115^{1/1}, 115^{2/2}$	-	dB(A)

**REMARK :**

- \* Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
- <sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
- <sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)
- \* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management) (Measurement By Mr. Tummarut Photakham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

REPORTED TEST 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 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้  
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 G301013 : Class 2

SAMPLE NO. : 05744  
MEASURING DATE : 05-06/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	05-06/04/2023 ( $L_{eq}$ )	05-06/04/2023 ( $L_{max}$ )	05-06/04/2023 ( $L_{90\%}$ )#	UNIT
11:00 - 12:00 <sup>13</sup>	56.6	65.5	55.3	dB(A)
12:00 - 13:00	59.3	81.8	55.0	dB(A)
13:00 - 14:00	56.1	63.9	54.8	dB(A)
14:00 - 15:00	55.7	61.1	54.5	dB(A)
15:00 - 16:00	55.9	62.9	54.6	dB(A)
16:00 - 17:00	56.2	68.2	54.8	dB(A)
17:00 - 18:00	55.9	65.8	54.3	dB(A)
18:00 - 19:00	57.1	80.1	54.4	dB(A)
19:00 - 20:00	55.3	61.2	53.9	dB(A)
20:00 - 21:00	55.1	64.9	53.7	dB(A)
21:00 - 22:00	55.0	60.8	53.9	dB(A)
22:00 - 23:00	55.8	65.3	54.8	dB(A)
23:00 - 00:00	55.9	60.7	55.0	dB(A)
00:00 - 01:00	56.1	66.2	55.0	dB(A)
01:00 - 02:00	56.2	58.9	55.1	dB(A)
02:00 - 03:00	56.3	59.2	55.3	dB(A)
03:00 - 04:00	55.6	59.4	54.6	dB(A)
04:00 - 05:00	55.6	63.0	54.5	dB(A)
05:00 - 06:00	56.1	63.3	54.8	dB(A)
06:00 - 07:00	56.3	66.9	55.0	dB(A)
07:00 - 08:00	57.4	71.7	55.0	dB(A)
08:00 - 09:00	55.9	71.8	54.6	dB(A)
09:00 - 10:00	55.8	63.5	54.4	dB(A)
10:00 - 11:00	55.7	62.6	54.2	dB(A)
$L_{eq}$ 24 hr.	56.2	-	-	dB(A)
$L_{dn\#}$	62.5	-	-	dB(A)
Maximum	-	81.8	-	dB(A)
Standard	70 <sup>1</sup> , 70 <sup>2</sup>	115 <sup>1</sup> , 115 <sup>2</sup>	-	dB(A)

**REMARK :**

# Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Photankharn)



Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)  
26/4/2023

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด  
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 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้  
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 G301013 : Class 2

SAMPLE NO. : 05745  
MEASURING DATE : 06-07/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	06-07/04/2023 ( $L_{eq}$ )	06-07/04/2023 ( $L_{max}$ )	06-07/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>13</sup>	55.6	61.5	54.4	dB(A)
12:00 - 13:00	55.9	62.5	54.7	dB(A)
13:00 - 14:00	56.0	62.6	55.0	dB(A)
14:00 - 15:00	56.1	60.2	54.8	dB(A)
15:00 - 16:00	55.9	62.1	54.8	dB(A)
16:00 - 17:00	56.0	65.3	55.0	dB(A)
17:00 - 18:00	56.3	62.4	55.3	dB(A)
18:00 - 19:00	56.0	64.0	54.9	dB(A)
19:00 - 20:00	56.1	69.2	55.0	dB(A)
20:00 - 21:00	55.4	64.2	54.1	dB(A)
21:00 - 22:00	55.0	61.5	53.9	dB(A)
22:00 - 23:00	55.9	58.9	54.8	dB(A)
23:00 - 00:00	56.6	61.2	55.6	dB(A)
00:00 - 01:00	57.2	62.1	56.3	dB(A)
01:00 - 02:00	56.4	61.0	55.3	dB(A)
02:00 - 03:00	56.2	61.7	55.3	dB(A)
03:00 - 04:00	56.4	61.5	55.5	dB(A)
04:00 - 05:00	56.6	64.8	55.5	dB(A)
05:00 - 06:00	57.1	66.5	55.9	dB(A)
06:00 - 07:00	57.2	66.2	56.0	dB(A)
07:00 - 08:00	57.8	70.9	56.0	dB(A)
08:00 - 09:00	57.6	70.5	55.9	dB(A)
09:00 - 10:00	57.6	65.9	56.2	dB(A)
10:00 - 11:00	64.5	77.8	56.6	dB(A)
$L_{eq}$ 24 hr.	57.3	-	-	dB(A)
$L_{dn\#}$	63.2	-	-	dB(A)
Maximum	-	77.8	-	dB(A)
Standard	70 <sup>1/1</sup> , 70 <sup>2/2</sup>	115 <sup>1/1</sup> , 115 <sup>2/2</sup>	-	dB(A)

**REMARK :**

<sup>13</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2543 (2000)

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Photankham)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

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 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้  
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 G301013 : Class 2

SAMPLE NO. : 05746  
MEASURING DATE : 07-08/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	07-08/04/2023 ( $L_{eq}$ )	07-08/04/2023 ( $L_{max}$ )	07-08/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>3</sup>	58.0	71.7	56.5	dB(A)
12:00 - 13:00	57.1	64.8	55.5	dB(A)
13:00 - 14:00	55.3	64.0	53.4	dB(A)
14:00 - 15:00	55.7	64.2	54.4	dB(A)
15:00 - 16:00	56.5	66.3	55.1	dB(A)
16:00 - 17:00	56.3	69.9	54.8	dB(A)
17:00 - 18:00	57.0	66.1	55.7	dB(A)
18:00 - 19:00	57.6	70.8	55.6	dB(A)
19:00 - 20:00	57.9	68.9	55.7	dB(A)
20:00 - 21:00	60.6	63.8	58.8	dB(A)
21:00 - 22:00	61.7	64.5	60.1	dB(A)
22:00 - 23:00	60.8	65.2	58.3	dB(A)
23:00 - 00:00	59.8	63.2	56.8	dB(A)
00:00 - 01:00	59.7	63.7	56.8	dB(A)
01:00 - 02:00	59.0	63.7	56.1	dB(A)
02:00 - 03:00	57.7	62.9	55.4	dB(A)
03:00 - 04:00	56.3	61.3	55.1	dB(A)
04:00 - 05:00	56.0	65.4	54.8	dB(A)
05:00 - 06:00	56.3	71.4	54.9	dB(A)
06:00 - 07:00	57.6	77.3	55.0	dB(A)
07:00 - 08:00	57.7	73.3	55.1	dB(A)
08:00 - 09:00	57.2	72.6	54.5	dB(A)
09:00 - 10:00	65.9	79.3	54.8	dB(A)
10:00 - 11:00	59.4	80.8	54.9	dB(A)
$L_{eq}$ 24 hr.	59.0	-	-	dB(A)
$L_{dn\#}$	65.0	-	-	dB(A)
Maximum	-	80.8	-	dB(A)
Standard	70 <sup>1</sup> , 70 <sup>2</sup>	115 <sup>1</sup> , 115 <sup>2</sup>	-	dB(A)

**REMARK :** <sup>1</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)  
\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

REPORTED TEST 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 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้  
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 G301013 : Class 2

SAMPLE NO. : 05747  
MEASURING DATE : 08-09/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	08-09/04/2023 ( $L_{eq}$ )	08-09/04/2023 ( $L_{max}$ )	08-09/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>1/3</sup>	56.9	71.1	55.5	dB(A)
12:00 - 13:00	56.9	67.7	55.1	dB(A)
13:00 - 14:00	56.5	65.8	55.1	dB(A)
14:00 - 15:00	57.9	74.4	55.4	dB(A)
15:00 - 16:00	56.7	72.4	55.1	dB(A)
16:00 - 17:00	56.3	70.9	54.5	dB(A)
17:00 - 18:00	56.2	68.4	54.7	dB(A)
18:00 - 19:00	57.2	69.2	55.4	dB(A)
19:00 - 20:00	57.2	64.5	55.7	dB(A)
20:00 - 21:00	56.4	63.1	54.5	dB(A)
21:00 - 22:00	55.6	63.5	54.5	dB(A)
22:00 - 23:00	55.7	60.3	54.4	dB(A)
23:00 - 00:00	55.8	59.0	54.6	dB(A)
00:00 - 01:00	56.0	59.9	55.0	dB(A)
01:00 - 02:00	55.7	60.0	54.7	dB(A)
02:00 - 03:00	55.9	60.5	54.8	dB(A)
03:00 - 04:00	55.7	58.4	54.8	dB(A)
04:00 - 05:00	55.7	61.2	54.9	dB(A)
05:00 - 06:00	58.8	87.7	54.7	dB(A)
06:00 - 07:00	56.9	69.9	54.6	dB(A)
07:00 - 08:00	56.7	70.1	54.4	dB(A)
08:00 - 09:00	56.3	69.5	54.4	dB(A)
09:00 - 10:00	56.5	70.7	54.3	dB(A)
10:00 - 11:00	56.1	68.4	54.5	dB(A)
$L_{eq}$ 24 hr.	56.6	-	-	dB(A)
$L_{dn\#}$	62.8	-	-	dB(A)
Maximum	-	87.7	-	dB(A)
Standard	70 <sup>1/1</sup> , 70 <sup>2/2</sup>	115 <sup>1/1</sup> , 115 <sup>2/2</sup>	-	dB(A)

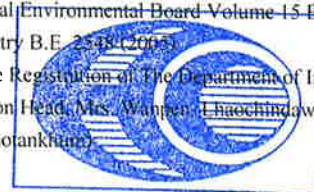
**REMARK :**

<sup>1/1</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1/2</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Phorankham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้  
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 G301013 : Class 2

SAMPLE NO. : 05748  
MEASURING DATE : 09-10/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	09-10/04/2023 ( $L_{eq}$ )	09-10/04/2023 ( $L_{max}$ )	09-10/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>13</sup>	56.1	72.0	54.3	dB(A)
12:00 - 13:00	56.1	65.8	54.5	dB(A)
13:00 - 14:00	55.6	65.2	54.2	dB(A)
14:00 - 15:00	55.6	68.7	54.3	dB(A)
15:00 - 16:00	56.1	64.0	54.9	dB(A)
16:00 - 17:00	56.3	65.6	54.9	dB(A)
17:00 - 18:00	56.0	64.2	54.8	dB(A)
18:00 - 19:00	56.1	66.9	54.6	dB(A)
19:00 - 20:00	55.5	66.3	54.2	dB(A)
20:00 - 21:00	55.1	60.6	54.1	dB(A)
21:00 - 22:00	55.3	59.5	54.0	dB(A)
22:00 - 23:00	55.5	60.7	54.3	dB(A)
23:00 - 00:00	55.6	60.6	54.4	dB(A)
00:00 - 01:00	55.6	59.4	54.4	dB(A)
01:00 - 02:00	55.4	58.6	54.2	dB(A)
02:00 - 03:00	55.2	60.6	54.0	dB(A)
03:00 - 04:00	55.2	58.9	54.1	dB(A)
04:00 - 05:00	55.1	59.0	54.1	dB(A)
05:00 - 06:00	55.7	70.2	53.8	dB(A)
06:00 - 07:00	56.3	69.5	54.0	dB(A)
07:00 - 08:00	56.1	67.1	54.2	dB(A)
08:00 - 09:00	56.4	68.6	54.5	dB(A)
09:00 - 10:00	56.7	66.8	55.1	dB(A)
10:00 - 11:00	56.9	65.9	55.5	dB(A)
$L_{eq}$ 24 hr.	55.8	-	-	dB(A)
$L_{dn\#}$	62.0	-	-	dB(A)
Maximum	-	72.0	-	dB(A)
Standard	70 <sup>11</sup> , 70 <sup>12</sup>	115 <sup>11</sup> , 115 <sup>12</sup>	-	dB(A)

**REMARK :** \* Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>11</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>12</sup> Notification of Ministry of the Industry P.E. 2548 (2005)  
<sup>13</sup> Start Time  
 \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
 (Measurement By Mr. Tummarut Photankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้  
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 G301013 : Class 2

SAMPLE NO. : 05749  
MEASURING DATE : 10-11/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	10-11/04/2023 ( $L_{eq}$ )	10-11/04/2023 ( $L_{max}$ )	10-11/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>13</sup>	56.4	76.0	54.4	dB(A)
12:00 - 13:00	56.0	67.3	54.6	dB(A)
13:00 - 14:00	56.3	66.8	54.7	dB(A)
14:00 - 15:00	56.6	66.5	54.9	dB(A)
15:00 - 16:00	56.7	68.2	55.2	dB(A)
16:00 - 17:00	57.3	72.4	55.7	dB(A)
17:00 - 18:00	56.7	67.0	55.3	dB(A)
18:00 - 19:00	56.8	72.2	54.8	dB(A)
19:00 - 20:00	56.4	68.8	54.9	dB(A)
20:00 - 21:00	55.7	63.3	54.1	dB(A)
21:00 - 22:00	55.4	59.6	54.1	dB(A)
22:00 - 23:00	56.1	64.1	54.9	dB(A)
23:00 - 00:00	56.2	60.1	55.0	dB(A)
00:00 - 01:00	56.3	59.7	55.2	dB(A)
01:00 - 02:00	56.7	59.9	55.6	dB(A)
02:00 - 03:00	56.6	59.8	55.4	dB(A)
03:00 - 04:00	56.3	59.4	55.1	dB(A)
04:00 - 05:00	56.1	60.4	55.1	dB(A)
05:00 - 06:00	56.7	72.5	54.9	dB(A)
06:00 - 07:00	58.6	84.3	54.9	dB(A)
07:00 - 08:00	56.7	66.0	55.1	dB(A)
08:00 - 09:00	57.0	67.0	55.2	dB(A)
09:00 - 10:00	56.7	67.5	55.4	dB(A)
10:00 - 11:00	56.6	72.6	55.1	dB(A)
$L_{eq}$ 24 hr.	56.6	-	-	dB(A)
$L_{dn\#}$	63.1	-	-	dB(A)
Maximum	-	84.3	-	dB(A)
Standard	70 <sup>11</sup> , 70 <sup>12</sup>	115 <sup>11</sup> , 115 <sup>12</sup>	-	dB(A)

**REMARK :** \* Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>11</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>12</sup> Notification of Ministry of the Industry B.E. 2548 (2005)  
\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Photankham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

REPORTED TEST 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 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้  
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 G301013 : Class 2

SAMPLE NO. : 05750  
MEASURING DATE : 11-12/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	11-12/04/2023 ( $L_{eq}$ )	11-12/04/2023 ( $L_{max}$ )	11-12/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>13</sup>	56.1	66.4	54.7	dB(A)
12:00 - 13:00	56.0	62.3	54.6	dB(A)
13:00 - 14:00	56.0	75.2	54.2	dB(A)
14:00 - 15:00	55.6	65.5	54.4	dB(A)
15:00 - 16:00	55.5	67.6	54.1	dB(A)
16:00 - 17:00	55.5	61.1	54.2	dB(A)
17:00 - 18:00	55.3	62.3	54.0	dB(A)
18:00 - 19:00	55.3	61.3	53.6	dB(A)
19:00 - 20:00	54.6	61.8	53.3	dB(A)
20:00 - 21:00	54.4	65.7	52.9	dB(A)
21:00 - 22:00	54.2	60.2	53.0	dB(A)
22:00 - 23:00	55.1	58.7	53.8	dB(A)
23:00 - 00:00	55.4	59.0	54.3	dB(A)
00:00 - 01:00	55.5	59.8	54.3	dB(A)
01:00 - 02:00	55.6	58.2	54.6	dB(A)
02:00 - 03:00	55.2	58.1	54.2	dB(A)
03:00 - 04:00	55.1	57.3	54.1	dB(A)
04:00 - 05:00	55.6	58.6	54.5	dB(A)
05:00 - 06:00	55.6	63.3	54.4	dB(A)
06:00 - 07:00	56.2	62.8	54.7	dB(A)
07:00 - 08:00	56.6	64.7	55.3	dB(A)
08:00 - 09:00	56.4	64.3	54.6	dB(A)
09:00 - 10:00	56.2	61.0	55.1	dB(A)
10:00 - 11:00	57.8	75.1	56.0	dB(A)
$L_{eq}$ 24 hr.	55.7	-	-	dB(A)
$L_{dn\#}$	61.9	-	-	dB(A)
Maximum	-	75.2	-	dB(A)
Standard	70 <sup>1</sup> , 70 <sup>2</sup>	115 <sup>1</sup> , 115 <sup>2</sup>	-	dB(A)

**REMARK :** Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)  
<sup>3</sup> Start Time  
 \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Ms. Thanatporn Klinsonon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
 (Measurement By Mr. Tummarut Photankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.   
(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

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**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันออก  
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 G300957 : Class 2

SAMPLE NO. : 05737  
MEASURING DATE : 05-06/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	05-06/04/2023 ( $L_{eq}$ )	05-06/04/2023 ( $L_{max}$ )	05-06/04/2023 ( $L_{90\%}$ )#	UNIT
11:00 - 12:00 <sup>13</sup>	65.0	84.9	58.2	dB(A)
12:00 - 13:00	63.5	78.9	57.2	dB(A)
13:00 - 14:00	65.2	84.9	58.4	dB(A)
14:00 - 15:00	64.8	83.6	58.6	dB(A)
15:00 - 16:00	65.5	84.8	58.9	dB(A)
16:00 - 17:00	65.9	83.0	59.3	dB(A)
17:00 - 18:00	66.5	80.8	58.1	dB(A)
18:00 - 19:00	64.1	82.1	57.6	dB(A)
19:00 - 20:00	63.1	82.0	56.7	dB(A)
20:00 - 21:00	63.6	82.6	56.6	dB(A)
21:00 - 22:00	60.1	76.9	57.1	dB(A)
22:00 - 23:00	60.9	77.6	58.1	dB(A)
23:00 - 00:00	61.7	77.9	58.8	dB(A)
00:00 - 01:00	61.6	81.7	58.4	dB(A)
01:00 - 02:00	60.1	78.4	58.0	dB(A)
02:00 - 03:00	60.8	80.0	58.1	dB(A)
03:00 - 04:00	60.5	77.6	57.9	dB(A)
04:00 - 05:00	64.5	88.0	58.0	dB(A)
05:00 - 06:00	62.1	85.9	58.1	dB(A)
06:00 - 07:00	64.7	84.0	58.9	dB(A)
07:00 - 08:00	65.3	80.8	58.9	dB(A)
08:00 - 09:00	68.1	93.5	59.2	dB(A)
09:00 - 10:00	63.7	85.3	58.4	dB(A)
10:00 - 11:00	64.8	79.8	59.3	dB(A)
$L_{eq}$ 24 hr.	64.1	-	-	dB(A)
$L_{dn\#}$	69.1	-	-	dB(A)
Maximum	-	93.5	-	dB(A)
Standard	$70^{11}, 70^{12}$	$115^{11}, 115^{12}$	-	dB(A)

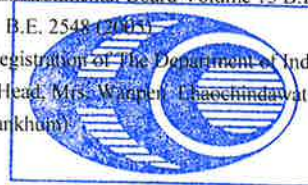
**REMARK :**

<sup>11</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>12</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>13</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Photarkhuni)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

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**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันออก  
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 G300957 : Class 2

SAMPLE NO. : 05738  
MEASURING DATE : 06-07/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	06-07/04/2023 ( $L_{eq}$ )	06-07/04/2023 ( $L_{max}$ )	06-07/04/2023 ( $L_{90\#}$ )#	UNIT
11:00 - 12:00 <sup>13</sup>	64.8	80.6	58.9	dB(A)
12:00 - 13:00	62.9	80.9	57.5	dB(A)
13:00 - 14:00	63.7	79.8	58.6	dB(A)
14:00 - 15:00	64.4	78.2	58.5	dB(A)
15:00 - 16:00	64.9	91.2	58.0	dB(A)
16:00 - 17:00	65.0	87.7	58.8	dB(A)
17:00 - 18:00	63.9	79.9	57.6	dB(A)
18:00 - 19:00	62.5	83.5	57.6	dB(A)
19:00 - 20:00	62.9	80.5	58.3	dB(A)
20:00 - 21:00	63.9	88.7	57.0	dB(A)
21:00 - 22:00	60.3	81.0	55.9	dB(A)
22:00 - 23:00	60.3	75.9	57.6	dB(A)
23:00 - 00:00	61.6	82.1	59.0	dB(A)
00:00 - 01:00	61.3	78.8	59.0	dB(A)
01:00 - 02:00	60.2	76.4	58.4	dB(A)
02:00 - 03:00	60.8	77.9	58.1	dB(A)
03:00 - 04:00	60.9	78.8	58.4	dB(A)
04:00 - 05:00	61.2	80.9	57.8	dB(A)
05:00 - 06:00	62.0	83.7	58.5	dB(A)
06:00 - 07:00	64.7	81.1	59.0	dB(A)
07:00 - 08:00	67.3	91.9	59.3	dB(A)
08:00 - 09:00	66.7	85.9	59.3	dB(A)
09:00 - 10:00	66.2	86.6	59.8	dB(A)
10:00 - 11:00	69.3	88.5	60.3	dB(A)
$L_{eq}$ 24 hr.	64.1	-	-	dB(A)
$L_{dn\#}$	68.8	-	-	dB(A)
Maximum	-	91.9	-	dB(A)
Standard	70 <sup>11</sup> , 70 <sup>12</sup>	115 <sup>11</sup> , 115 <sup>12</sup>	-	dB(A)

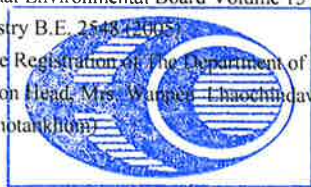
**REMARK :**

<sup>11</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>12</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>13</sup> Notification of Ministry of the Industry B.E. 2543/2005

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Photakhanon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

26/4/2023

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**TEST REPORT**

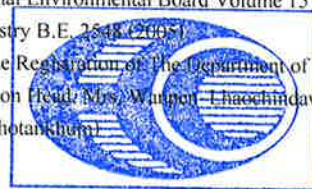
CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันออก  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  24 hr.,  $L_{max}$ ,  $L_{90\#}$  &  $L_{dn\#}$   
DETERMINATION METHOD : ISO 1996-1:2016  
INSTRUMENT : Integrated Sound Level Meter  
S/N G300957 : Class 2

SAMPLE NO. : 05739  
MEASURING DATE : 07-08/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	07-08/04/2023 ( $L_{eq}$ )	07-08/04/2023 ( $L_{max}$ )	07-08/04/2023 ( $L_{90\#}$ )#	UNIT
11:00 - 12:00 <sup>/3</sup>	68.1	86.4	61.1	dB(A)
12:00 - 13:00	66.7	81.4	59.1	dB(A)
13:00 - 14:00	67.3	82.7	59.8	dB(A)
14:00 - 15:00	67.7	89.4	59.9	dB(A)
15:00 - 16:00	67.4	81.1	59.5	dB(A)
16:00 - 17:00	66.8	79.4	59.9	dB(A)
17:00 - 18:00	67.7	84.3	59.7	dB(A)
18:00 - 19:00	67.3	84.8	59.5	dB(A)
19:00 - 20:00	66.0	82.6	58.4	dB(A)
20:00 - 21:00	65.7	82.7	58.4	dB(A)
21:00 - 22:00	62.8	79.3	57.2	dB(A)
22:00 - 23:00	63.1	79.6	59.4	dB(A)
23:00 - 00:00	61.6	76.3	59.2	dB(A)
00:00 - 01:00	62.9	77.5	59.7	dB(A)
01:00 - 02:00	63.1	79.1	58.9	dB(A)
02:00 - 03:00	62.7	78.9	58.8	dB(A)
03:00 - 04:00	64.4	81.4	58.7	dB(A)
04:00 - 05:00	65.0	82.9	58.1	dB(A)
05:00 - 06:00	66.6	89.2	58.4	dB(A)
06:00 - 07:00	66.0	85.3	59.2	dB(A)
07:00 - 08:00	66.6	82.0	59.3	dB(A)
08:00 - 09:00	67.0	81.6	59.3	dB(A)
09:00 - 10:00	66.3	82.4	59.0	dB(A)
10:00 - 11:00	66.1	81.0	59.0	dB(A)
$L_{eq}$ 24 hr.	66.0	-	-	dB(A)
$L_{dn\#}$	71.1	-	-	dB(A)
Maximum	-	89.4	-	dB(A)
Standard	$70^{/1}, 70^{/2}$	$115^{/1}, 115^{/2}$	-	dB(A)

**REMARK :**

- # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory
- <sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
- <sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)
- \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Photanachum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

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**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันออก  
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 G300957 : Class 2

SAMPLE NO. : 05740  
MEASURING DATE : 08-09/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	08-09/04/2023 ( $L_{eq}$ )	08-09/04/2023 ( $L_{max}$ )	08-09/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>1/3</sup>	66.2	87.2	58.2	dB(A)
12:00 - 13:00	65.8	89.9	57.7	dB(A)
13:00 - 14:00	65.8	84.3	58.4	dB(A)
14:00 - 15:00	65.9	85.5	58.6	dB(A)
15:00 - 16:00	66.2	82.0	58.3	dB(A)
16:00 - 17:00	66.8	82.5	59.1	dB(A)
17:00 - 18:00	67.0	83.9	58.2	dB(A)
18:00 - 19:00	65.2	85.9	57.4	dB(A)
19:00 - 20:00	64.5	85.8	56.7	dB(A)
20:00 - 21:00	64.2	86.2	56.2	dB(A)
21:00 - 22:00	61.1	75.4	57.0	dB(A)
22:00 - 23:00	62.9	80.4	59.2	dB(A)
23:00 - 00:00	60.8	77.8	58.9	dB(A)
00:00 - 01:00	61.6	79.6	59.0	dB(A)
01:00 - 02:00	60.0	75.7	58.6	dB(A)
02:00 - 03:00	61.5	78.0	58.4	dB(A)
03:00 - 04:00	61.9	81.3	58.4	dB(A)
04:00 - 05:00	59.6	74.1	58.6	dB(A)
05:00 - 06:00	60.6	80.9	58.5	dB(A)
06:00 - 07:00	63.2	82.4	58.8	dB(A)
07:00 - 08:00	64.5	80.6	58.0	dB(A)
08:00 - 09:00	66.8	88.9	58.3	dB(A)
09:00 - 10:00	64.8	86.1	57.6	dB(A)
10:00 - 11:00	65.4	82.7	58.5	dB(A)
$L_{eq}$ 24 hr.	64.4	-	-	dB(A)
$L_{dn\#}$	68.8	-	-	dB(A)
Maximum	-	89.9	-	dB(A)
Standard	$70^{1/1} 70^{1/2}$	$115^{1/1} 115^{1/2}$	-	dB(A)

**REMARK :**

<sup>1</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548-1-2015

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Photakultham)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันออก  
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 G300957 : Class 2

SAMPLE NO. : 05741  
MEASURING DATE : 09-10/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	09-10/04/2023 ( $L_{eq}$ )	09-10/04/2023 ( $L_{max}$ )	09-10/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00	65.3	85.7	57.8	dB(A)
12:00 - 13:00	64.7	84.0	55.8	dB(A)
13:00 - 14:00	64.0	88.0	56.0	dB(A)
14:00 - 15:00	64.5	85.2	56.1	dB(A)
15:00 - 16:00	64.5	82.9	56.4	dB(A)
16:00 - 17:00	65.0	85.2	56.8	dB(A)
17:00 - 18:00	62.6	83.7	56.6	dB(A)
18:00 - 19:00	61.8	81.2	57.1	dB(A)
19:00 - 20:00	61.7	80.6	56.9	dB(A)
20:00 - 21:00	62.3	84.5	56.8	dB(A)
21:00 - 22:00	61.2	77.6	56.5	dB(A)
22:00 - 23:00	65.2	76.9	56.8	dB(A)
23:00 - 00:00	62.3	75.6	55.8	dB(A)
00:00 - 01:00	59.7	77.0	56.4	dB(A)
01:00 - 02:00	57.7	75.8	56.3	dB(A)
02:00 - 03:00	57.4	78.8	56.2	dB(A)
03:00 - 04:00	57.2	73.2	56.0	dB(A)
04:00 - 05:00	58.3	76.9	56.0	dB(A)
05:00 - 06:00	59.9	78.1	56.0	dB(A)
06:00 - 07:00	64.5	82.0	56.6	dB(A)
07:00 - 08:00	65.7	83.1	57.5	dB(A)
08:00 - 09:00	67.4	84.0	59.1	dB(A)
09:00 - 10:00	67.0	88.9	59.1	dB(A)
10:00 - 11:00	67.6	85.3	58.9	dB(A)
$L_{eq}$ 24 hr.	63.8	-	-	dB(A)
$L_{dn\#}$	68.4	-	-	dB(A)
Maximum	-	88.9	-	dB(A)
Standard	$70^{/1}, 70^{/2}$	$115^{/1}, 115^{/2}$	-	dB(A)

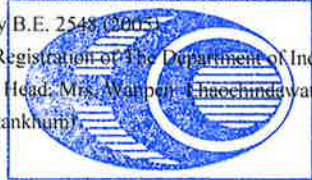
**REMARK :** Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporm Klinsoopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Photankhum)

<sup>/3</sup> Start Time



บริษัท สีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

26/4/2023

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 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันออก  
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 G300957 : Class 2

SAMPLE NO. : 05742  
MEASURING DATE : 10-11/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	10-11/04/2023 ( $L_{eq}$ )	10-11/04/2023 ( $L_{max}$ )	10-11/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>/1</sup>	68.0	89.8	58.6	dB(A)
12:00 - 13:00	67.0	90.4	58.4	dB(A)
13:00 - 14:00	68.4	88.8	59.2	dB(A)
14:00 - 15:00	68.8	91.9	59.3	dB(A)
15:00 - 16:00	68.1	88.7	58.8	dB(A)
16:00 - 17:00	69.7	94.7	59.7	dB(A)
17:00 - 18:00	68.3	91.8	58.9	dB(A)
18:00 - 19:00	67.3	82.8	58.2	dB(A)
19:00 - 20:00	66.8	88.7	56.6	dB(A)
20:00 - 21:00	64.8	86.7	56.3	dB(A)
21:00 - 22:00	62.1	78.6	56.9	dB(A)
22:00 - 23:00	62.7	81.4	57.7	dB(A)
23:00 - 00:00	62.2	78.6	58.4	dB(A)
00:00 - 01:00	63.2	81.3	58.0	dB(A)
01:00 - 02:00	62.5	81.5	57.4	dB(A)
02:00 - 03:00	61.8	78.9	57.6	dB(A)
03:00 - 04:00	62.0	82.1	57.4	dB(A)
04:00 - 05:00	61.1	78.2	57.4	dB(A)
05:00 - 06:00	61.4	78.6	57.7	dB(A)
06:00 - 07:00	64.6	80.5	58.4	dB(A)
07:00 - 08:00	66.1	87.0	58.8	dB(A)
08:00 - 09:00	68.4	86.3	59.9	dB(A)
09:00 - 10:00	67.7	86.8	58.9	dB(A)
10:00 - 11:00	69.1	93.8	59.4	dB(A)
$L_{eq}$ 24 hr.	66.4	-	-	dB(A)
$L_{dn\#}$	70.2	-	-	dB(A)
Maximum	-	94.7	-	dB(A)
Standard	70 <sup>/1</sup> , 70 <sup>/2</sup>	115 <sup>/1</sup> , 115 <sup>/2</sup>	-	dB(A)

**REMARK :** <sup>/1</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

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<sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

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

(Ms. Thanatporn Klinsoopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankham)

<sup>/3</sup> Start Time



Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

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**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันออก  
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 G300957 : Class 2

SAMPLE NO. : 05743  
MEASURING DATE : 11-12/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	11-12/04/2023 ( $L_{eq}$ )	11-12/04/2023 ( $L_{max}$ )	11-12/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>1/3</sup>	67.7	84.2	59.3	dB(A)
12:00 - 13:00	66.0	82.4	58.2	dB(A)
13:00 - 14:00	67.4	84.9	59.5	dB(A)
14:00 - 15:00	65.9	79.1	58.7	dB(A)
15:00 - 16:00	66.5	84.1	58.2	dB(A)
16:00 - 17:00	65.7	82.9	57.7	dB(A)
17:00 - 18:00	66.3	81.1	57.6	dB(A)
18:00 - 19:00	64.7	82.7	56.7	dB(A)
19:00 - 20:00	62.8	77.2	56.1	dB(A)
20:00 - 21:00	63.9	87.3	55.8	dB(A)
21:00 - 22:00	59.9	77.1	56.2	dB(A)
22:00 - 23:00	60.7	81.1	57.0	dB(A)
23:00 - 00:00	60.9	75.7	57.7	dB(A)
00:00 - 01:00	60.3	76.8	57.7	dB(A)
01:00 - 02:00	59.7	76.3	57.9	dB(A)
02:00 - 03:00	62.2	81.4	57.8	dB(A)
03:00 - 04:00	61.7	81.7	57.8	dB(A)
04:00 - 05:00	64.5	82.0	57.9	dB(A)
05:00 - 06:00	60.6	76.6	57.8	dB(A)
06:00 - 07:00	64.2	81.4	58.1	dB(A)
07:00 - 08:00	65.8	83.3	58.0	dB(A)
08:00 - 09:00	66.2	88.9	58.1	dB(A)
09:00 - 10:00	63.2	79.2	56.9	dB(A)
10:00 - 11:00	65.0	78.5	58.8	dB(A)
$L_{eq}$ 24 hr.	64.5	-	-	dB(A)
$L_{dn\#}$	69.1	-	-	dB(A)
Maximum	-	88.9	-	dB(A)
Standard	70 <sup>1/1</sup> , 70 <sup>1/2</sup>	115 <sup>1/1</sup> , 115 <sup>1/2</sup>	-	dB(A)

**REMARK :** <sup>1/</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>1/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)  
<sup>1/3</sup> Start Time  
\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Photankham)



บริษัท อีสเทิร์นไทยคอนซัลต์ 1992 จำกัด

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

26/4/2023

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**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตก  
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 G301039 : Class 2

SAMPLE NO. : 05730  
MEASURING DATE : 05-06/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	05-06/04/2023 ( $L_{eq}$ )	05-06/04/2023 ( $L_{max}$ )	05-06/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>13</sup>	63.9	76.9	63.2	dB(A)
12:00 - 13:00	63.4	64.9	63.0	dB(A)
13:00 - 14:00	63.3	65.9	62.9	dB(A)
14:00 - 15:00	63.5	67.1	63.1	dB(A)
15:00 - 16:00	63.5	73.6	63.0	dB(A)
16:00 - 17:00	63.4	65.2	63.0	dB(A)
17:00 - 18:00	63.7	66.4	63.4	dB(A)
18:00 - 19:00	63.7	65.2	63.4	dB(A)
19:00 - 20:00	63.7	66.6	63.3	dB(A)
20:00 - 21:00	63.8	65.5	63.6	dB(A)
21:00 - 22:00	63.9	64.6	63.6	dB(A)
22:00 - 23:00	63.9	64.8	63.5	dB(A)
23:00 - 00:00	63.7	66.0	63.4	dB(A)
00:00 - 01:00	63.7	64.5	63.4	dB(A)
01:00 - 02:00	63.7	65.9	63.3	dB(A)
02:00 - 03:00	63.7	64.6	63.4	dB(A)
03:00 - 04:00	63.5	64.2	63.2	dB(A)
04:00 - 05:00	63.7	65.7	63.3	dB(A)
05:00 - 06:00	63.6	67.5	63.3	dB(A)
06:00 - 07:00	63.7	66.9	63.3	dB(A)
07:00 - 08:00	63.5	65.7	63.2	dB(A)
08:00 - 09:00	63.5	66.2	63.2	dB(A)
09:00 - 10:00	63.6	66.3	63.2	dB(A)
10:00 - 11:00	63.4	65.0	63.0	dB(A)
$L_{eq}$ 24 hr.	63.6	-	-	dB(A)
$L_{dn\#}$	70.1	-	-	dB(A)
Maximum	-	76.9	-	dB(A)
Standard	70 <sup>11</sup> , 70 <sup>12</sup>	115 <sup>11</sup> , 115 <sup>12</sup>	-	dB(A)

**REMARK :** <sup>11</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>11</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>12</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

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

(Ms. Thanatpoom Klinsoopon is Section Head Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Phonakum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By   
(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

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**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตก  
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 G301039 : Class 2

SAMPLE NO. : 05731  
MEASURING DATE : 06-07/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	06-07/04/2023 ( $L_{eq}$ )	06-07/04/2023 ( $L_{max}$ )	06-07/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>1/3</sup>	63.2	66.3	62.8	dB(A)
12:00 - 13:00	63.5	69.0	63.0	dB(A)
13:00 - 14:00	63.4	65.6	63.0	dB(A)
14:00 - 15:00	63.5	65.3	63.1	dB(A)
15:00 - 16:00	63.3	65.8	62.9	dB(A)
16:00 - 17:00	63.4	65.3	62.9	dB(A)
17:00 - 18:00	63.5	67.2	63.2	dB(A)
18:00 - 19:00	63.6	65.1	63.4	dB(A)
19:00 - 20:00	63.5	66.5	63.2	dB(A)
20:00 - 21:00	63.8	67.9	63.5	dB(A)
21:00 - 22:00	63.7	64.5	63.4	dB(A)
22:00 - 23:00	63.6	64.6	63.3	dB(A)
23:00 - 00:00	63.5	64.3	63.1	dB(A)
00:00 - 01:00	63.7	66.1	63.3	dB(A)
01:00 - 02:00	63.6	64.7	63.2	dB(A)
02:00 - 03:00	63.6	64.3	63.3	dB(A)
03:00 - 04:00	63.5	64.4	63.2	dB(A)
04:00 - 05:00	63.6	64.7	63.2	dB(A)
05:00 - 06:00	63.8	66.4	63.4	dB(A)
06:00 - 07:00	63.7	66.1	63.3	dB(A)
07:00 - 08:00	63.5	65.9	63.2	dB(A)
08:00 - 09:00	63.5	67.3	63.1	dB(A)
09:00 - 10:00	63.8	72.1	63.4	dB(A)
10:00 - 11:00	66.8	83.2	64.5	dB(A)
$L_{eq}$ 24 hr.	63.8	-	-	dB(A)
$L_{dn\#}$	70.1	-	-	dB(A)
Maximum	-	83.2	-	dB(A)
Standard	70 <sup>1/1</sup> , 70 <sup>1/2</sup>	115 <sup>1/1</sup> , 115 <sup>1/2</sup>	-	dB(A)

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<sup>1/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)  
\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsoon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Photankhum)



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

26/4/2023

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**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตก  
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 G301039 : Class 2

SAMPLE NO. : 05732  
MEASURING DATE : 07-08/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	07-08/04/2023 ( $L_{eq}$ )	07-08/04/2023 ( $L_{max}$ )	07-08/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>/3</sup>	64.5	72.0	63.8	dB(A)
12:00 - 13:00	64.2	69.0	63.7	dB(A)
13:00 - 14:00	65.6	82.9	63.5	dB(A)
14:00 - 15:00	64.5	77.0	63.5	dB(A)
15:00 - 16:00	63.9	72.0	63.4	dB(A)
16:00 - 17:00	63.6	65.4	63.2	dB(A)
17:00 - 18:00	63.7	67.8	63.3	dB(A)
18:00 - 19:00	63.8	66.3	63.3	dB(A)
19:00 - 20:00	63.9	66.6	63.5	dB(A)
20:00 - 21:00	63.9	65.6	63.5	dB(A)
21:00 - 22:00	63.9	67.0	63.5	dB(A)
22:00 - 23:00	64.0	68.9	63.5	dB(A)
23:00 - 00:00	64.0	74.7	63.3	dB(A)
00:00 - 01:00	63.8	71.2	63.4	dB(A)
01:00 - 02:00	63.8	66.7	63.5	dB(A)
02:00 - 03:00	64.9	76.0	63.5	dB(A)
03:00 - 04:00	63.7	68.8	63.3	dB(A)
04:00 - 05:00	63.7	74.4	63.3	dB(A)
05:00 - 06:00	63.8	64.6	63.4	dB(A)
06:00 - 07:00	63.8	67.8	63.4	dB(A)
07:00 - 08:00	63.6	71.1	63.2	dB(A)
08:00 - 09:00	63.6	66.5	63.3	dB(A)
09:00 - 10:00	63.5	66.2	63.0	dB(A)
10:00 - 11:00	63.5	66.1	63.1	dB(A)
$L_{eq}$ 24 hr.	64.0	-	-	dB(A)
$L_{dn\#}$	70.4	-	-	dB(A)
Maximum	-	82.9	-	dB(A)
Standard	70 <sup>/1</sup> , 70 <sup>/2</sup>	115 <sup>/1</sup> , 115 <sup>/2</sup>	-	dB(A)

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<sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

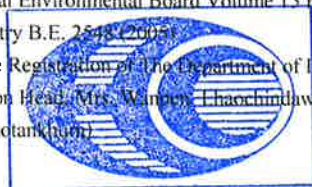
<sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

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

(Ms. Thanatporn Klinsoopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankhum)

<sup>/3</sup> Start Time



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

  
(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตก  
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 G301039 : Class 2

SAMPLE NO. : 05733  
MEASURING DATE : 08-09/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	08-09/04/2023 ( $L_{eq}$ )	08-09/04/2023 ( $L_{max}$ )	08-09/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>1)</sup>	63.2	66.4	62.8	dB(A)
12:00 - 13:00	63.3	68.5	62.8	dB(A)
13:00 - 14:00	63.4	68.9	62.9	dB(A)
14:00 - 15:00	63.4	65.4	63.0	dB(A)
15:00 - 16:00	63.5	71.2	62.9	dB(A)
16:00 - 17:00	63.4	68.4	63.0	dB(A)
17:00 - 18:00	63.5	67.4	63.1	dB(A)
18:00 - 19:00	63.7	66.0	63.3	dB(A)
19:00 - 20:00	63.5	64.5	63.2	dB(A)
20:00 - 21:00	63.6	66.0	63.3	dB(A)
21:00 - 22:00	63.7	66.8	63.2	dB(A)
22:00 - 23:00	63.5	66.3	63.1	dB(A)
23:00 - 00:00	63.6	65.9	63.2	dB(A)
00:00 - 01:00	63.6	66.7	63.2	dB(A)
01:00 - 02:00	63.5	64.5	63.2	dB(A)
02:00 - 03:00	63.6	64.5	63.3	dB(A)
03:00 - 04:00	63.5	65.1	63.2	dB(A)
04:00 - 05:00	63.6	75.9	63.2	dB(A)
05:00 - 06:00	63.7	66.3	63.3	dB(A)
06:00 - 07:00	63.6	66.7	63.3	dB(A)
07:00 - 08:00	63.4	68.8	63.1	dB(A)
08:00 - 09:00	63.5	73.9	62.9	dB(A)
09:00 - 10:00	63.3	71.3	62.9	dB(A)
10:00 - 11:00	63.2	67.0	62.8	dB(A)
$L_{eq}$ 24 hr.	63.5	-	-	dB(A)
$L_{dn\#}$	70.0	-	-	dB(A)
Maximum	-	75.9	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	$115^{1/1}, 115^{1/2}$	-	dB(A)

**REMARK :**

<sup>1)</sup> Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>1)</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>1/2)</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsonop is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Photanichum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

26/4/2023

REPORTED TEST 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 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตก  
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 G301039 : Class 2

SAMPLE NO. : 05734  
MEASURING DATE : 09-10/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	09-10/04/2023 ( $L_{eq}$ )	09-10/04/2023 ( $L_{max}$ )	09-10/04/2023 ( $L_{90\#}$ )#	UNIT
11:00 - 12:00 <sup>/3</sup>	63.1	65.3	62.7	dB(A)
12:00 - 13:00	63.0	64.4	62.6	dB(A)
13:00 - 14:00	63.0	65.7	62.6	dB(A)
14:00 - 15:00	63.3	65.1	62.9	dB(A)
15:00 - 16:00	63.1	68.3	62.7	dB(A)
16:00 - 17:00	63.4	75.8	63.0	dB(A)
17:00 - 18:00	63.4	67.5	63.1	dB(A)
18:00 - 19:00	63.6	66.0	63.3	dB(A)
19:00 - 20:00	63.4	64.2	63.1	dB(A)
20:00 - 21:00	63.7	68.9	63.3	dB(A)
21:00 - 22:00	63.5	68.4	63.2	dB(A)
22:00 - 23:00	63.6	70.9	63.3	dB(A)
23:00 - 00:00	63.5	64.6	63.2	dB(A)
00:00 - 01:00	63.5	66.4	63.1	dB(A)
01:00 - 02:00	63.7	72.3	63.3	dB(A)
02:00 - 03:00	63.8	70.5	63.3	dB(A)
03:00 - 04:00	63.4	64.4	63.1	dB(A)
04:00 - 05:00	63.5	66.3	63.2	dB(A)
05:00 - 06:00	63.5	69.1	63.2	dB(A)
06:00 - 07:00	63.7	68.0	63.4	dB(A)
07:00 - 08:00	63.7	71.6	63.1	dB(A)
08:00 - 09:00	63.5	69.8	63.1	dB(A)
09:00 - 10:00	63.5	67.1	63.1	dB(A)
10:00 - 11:00	63.5	65.9	63.1	dB(A)
$L_{eq}$ 24 hr.	63.5	-	-	dB(A)
$L_{dn\#}$	70.0	-	-	dB(A)
Maximum	-	75.8	-	dB(A)
Standard	70 <sup>/1</sup> , 70 <sup>/2</sup>	115 <sup>/1</sup> , 115 <sup>/2</sup>	-	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (1995)  
\* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
(Ms. Thanatporn Klinsoopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
(Measurement By Mr. Tummarut Photankhuma)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

26/4/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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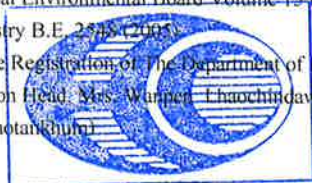
**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตก  
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 G301039 : Class 2

SAMPLE NO. : 05735  
MEASURING DATE : 10-11/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	10-11/04/2023 ( $L_{eq}$ )	10-11/04/2023 ( $L_{max}$ )	10-11/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00	63.2	64.7	62.8	dB(A)
12:00 - 13:00	63.0	64.6	62.6	dB(A)
13:00 - 14:00	63.3	65.3	62.9	dB(A)
14:00 - 15:00	63.4	66.5	63.0	dB(A)
15:00 - 16:00	63.3	64.9	62.9	dB(A)
16:00 - 17:00	63.3	64.6	62.9	dB(A)
17:00 - 18:00	63.5	78.6	63.0	dB(A)
18:00 - 19:00	63.6	67.9	63.2	dB(A)
19:00 - 20:00	63.9	68.9	63.5	dB(A)
20:00 - 21:00	63.9	67.0	63.4	dB(A)
21:00 - 22:00	63.6	65.0	63.2	dB(A)
22:00 - 23:00	63.6	75.9	63.1	dB(A)
23:00 - 00:00	63.4	65.9	63.0	dB(A)
00:00 - 01:00	63.5	64.8	63.1	dB(A)
01:00 - 02:00	63.7	69.2	63.4	dB(A)
02:00 - 03:00	63.8	65.7	63.4	dB(A)
03:00 - 04:00	63.8	69.0	63.4	dB(A)
04:00 - 05:00	63.8	69.0	63.4	dB(A)
05:00 - 06:00	63.5	66.3	63.2	dB(A)
06:00 - 07:00	63.5	69.8	63.1	dB(A)
07:00 - 08:00	63.5	77.8	63.1	dB(A)
08:00 - 09:00	63.5	67.2	63.1	dB(A)
09:00 - 10:00	63.4	66.9	63.0	dB(A)
10:00 - 11:00	63.3	68.5	63.0	dB(A)
$L_{eq}$ 24 hr.	63.5	-	-	dB(A)
$L_{dn\#}$	70.0	-	-	dB(A)
Maximum	-	78.6	-	dB(A)
Standard	$70^{/1}, 70^{/2}$	$115^{/1}, 115^{/2}$	-	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory  
<sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)  
<sup>/2</sup> Notification of Ministry of the Industry B.E. 2545 (2002)  
<sup>/3</sup> Start Time  
 \* Parameter Outside The Scope of The Registration of The Department of Industrial Works  
 (Ms. Thanatporn Klinsoopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)  
 (Measurement By Mr. Tummarut Photankhum)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

26/4/2023

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**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตก  
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 G301039 : Class 2

SAMPLE NO. : 05736  
MEASURING DATE : 11-12/04/2023  
RECEIVED DATE : 12/4/2023  
REPORTED DATE : 26/4/2023

TIME \ DATE	11-12/04/2023 ( $L_{eq}$ )	11-12/04/2023 ( $L_{max}$ )	11-12/04/2023 ( $L_{90\#}$ )	UNIT
11:00 - 12:00 <sup>/3</sup>	63.1	64.7	62.7	dB(A)
12:00 - 13:00	63.0	65.2	62.6	dB(A)
13:00 - 14:00	63.3	66.6	62.9	dB(A)
14:00 - 15:00	63.3	66.0	62.9	dB(A)
15:00 - 16:00	63.2	70.1	62.8	dB(A)
16:00 - 17:00	63.3	70.4	62.9	dB(A)
17:00 - 18:00	63.5	67.3	63.2	dB(A)
18:00 - 19:00	63.6	66.0	63.3	dB(A)
19:00 - 20:00	63.6	66.4	63.4	dB(A)
20:00 - 21:00	63.7	66.3	63.4	dB(A)
21:00 - 22:00	63.7	67.0	63.3	dB(A)
22:00 - 23:00	63.5	64.1	63.2	dB(A)
23:00 - 00:00	63.7	64.4	63.4	dB(A)
00:00 - 01:00	63.7	64.6	63.3	dB(A)
01:00 - 02:00	63.7	64.6	63.4	dB(A)
02:00 - 03:00	63.6	64.3	63.3	dB(A)
03:00 - 04:00	63.7	66.3	63.4	dB(A)
04:00 - 05:00	63.7	68.0	63.4	dB(A)
05:00 - 06:00	63.7	66.1	63.4	dB(A)
06:00 - 07:00	63.7	66.7	63.4	dB(A)
07:00 - 08:00	63.7	65.8	63.3	dB(A)
08:00 - 09:00	63.6	74.4	63.2	dB(A)
09:00 - 10:00	63.6	75.9	63.2	dB(A)
10:00 - 11:00	64.6	75.6	63.3	dB(A)
$L_{eq}$ 24 hr.	63.6	-	-	dB(A)
$L_{dn\#}$	70.1	-	-	dB(A)
Maximum	-	75.9	-	dB(A)
Standard	70 <sup>/1</sup> , 70 <sup>/2</sup>	115 <sup>/1</sup> , 115 <sup>/2</sup>	-	dB(A)

**REMARK :** # Test Report/Sampling marked 'Not TISI Accredited' in this report are not included in the TISI Accreditation Schedule for our laboratory

<sup>/1</sup> Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

<sup>/2</sup> Notification of Ministry of the Industry B.E. 2548 (2005)

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

(Ms. Thanatporn Klinsoopon is Section Head, Mrs. Wanpen Lhaochindawat is Technical Management)

(Measurement By Mr. Tummarut Photankhum)

<sup>/3</sup> Start Time

Approved By:   
(MRS. WANPEN LHAOCHINDAWAT)

26/4/2023

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

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ผลการทดสอบคุณภาพน้ำใต้ดิน

Request No : W6603379

Report No. 6603-1594

## TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 17  
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
Sampling Source : GC17 Polystyrene Plant Sample No. : W 66031618  
Sample Name : MW 05 (เหนือน้ำ) Sampling Date : 15/03/2023  
Sampling By : ETC Sampling Time : 1:50 PM  
Sampling Method : Grab Received Date : 16/03/2023  
Tested Date : 16/03/2023 – 23/03/2023 Reported Date : 27/03/2023

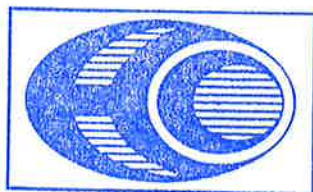
Parameter	Unit	Method	Result	Standard <sup>1/</sup>
Ethylbenzene	mg/L	Purge-and-Trap / GC – MS	Not Detected	$\leq 2$
Styrene monomer	mg/L	Purge-and-Trap / GC – MS	Not Detected	$\leq 24$

## Physical Apperance :

1. Sample : orange, turbid
2. Container : Normal [ PE 0.5 L, PE 2.0 L, G 2.5 L [2 Bottle] ]

## Remark :

1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Parameter Outside The Scope of The Registration of Department of Industrial Works
3. Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017., Part 6200B.
4. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
5. MDL = Method Detection Limit ( MDL of Ethylbenzene = 0.00025 mg/L, MDL of Styrene monomer = 0.00050 mg/L)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....  
( Miss Apiradee Chuen-arom )

27 / 03 / 2023

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

Request No : W6603379

Report No. 6603-1591

## TEST REPORT

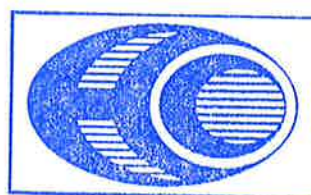
Customer : PTT Global Chemical Public Company Limited Branch 17  
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
Sampling Source : GC17 Polystyrene Plant Sample No. : W 66031615  
Sample Name : MW 02 (ท้ายน้ำ) Sampling Date : 15/03/2023  
Sampling By : ETC Sampling Time : 2:45 PM  
Sampling Method : Grab Received Date : 16/03/2023  
Tested Date : 16/03/2023 – 23/03/2023 Reported Date : 27/03/2023

Parameter	Unit	Method	Result	Standard <sup>1/</sup>
Ethylbenzene	mg/L	Purge-and-Trap / GC – MS	Not Detected	≤ 2
Styrene monomer	mg/L	Purge-and-Trap / GC – MS	Not Detected	≤ 24

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [ PE 0.5 L, PE 2.0 L, G 2.5 L [2 Bottle] ]

- Remark :
1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
  2. Parameter Outside The Scope of The Registration of Department of Industrial Works
  3. Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017., Part 6200B.
  4. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
  5. MDL = Method Detection Limit ( MDL of Ethylbenzene = 0.00025 mg/L, MDL of Styrene monomer = 0.00050 mg/L)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด


  
Examined By.....

( Miss Apiradee Chuen-arom )

27 / 03 / 2023

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

Request No : W6603379

Report No. 6603-1592

## TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 17  
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
Sampling Source : GC17 Polystyrene Plant Sample No. : W 66031616  
Sample Name : MW 03 (ท้ายน้ำ) Sampling Date : 15/03/2023  
Sampling By : ETC Sampling Time : 2:25 PM  
Sampling Method : Grab Received Date : 16/03/2023  
Tested Date : 16/03/2023 – 23/03/2023 Reported Date : 27/03/2023

Parameter	Unit	Method	Result	Standard <sup>1)</sup>
Ethylbenzene	mg/L	Purge-and-Trap / GC – MS	Not Detected	≤ 2
Styrene monomer	mg/L	Purge-and-Trap / GC – MS	Not Detected	≤ 24

Physical Apperance : 1. Sample : yellowish, lightly SS  
2. Container : Normal [ PE 0.5 L, PE 2.0 L, G 2.5 L [2 Bottle] ]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)  
2. Parameter Outside The Scope of The Registration of Department of Industrial Works  
3. Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017., Part 6200B.  
4. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)  
5. MDL = Method Detection Limit ( MDL of Ethylbenzene = 0.00025 mg/L, MDL of Styrene monomer = 0.00050 mg/L)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 

( Miss Apiradee Chuen-arom )

27 / 03 / 2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY  
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การตรวจสอบระดับน้ำและทิศทางการไหลของน้ำใต้ดิน



รายงานผลการสำรวจระดับน้ำภายในบ่อสังเกตการณ์  
และทิศทางการไหลของน้ำใต้ดิน  
วันที่ 28 มีนาคม พ.ศ.2566

ชื่อโครงการ	โรงโพลีสไตรีน
ที่ตั้งโครงการ	เลขที่ 7 ถนนไอนหนึ่ง นิคมอุตสาหกรรมมาบตาพุด อำเภอเมืองระยอง จังหวัดระยอง โทร 038-976-600
ชื่อเจ้าของโครงการ	บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17
สถานที่ติดต่อ	เลขที่ 555/1 ศูนย์เอนเนอร์ยี่คอมเพล็กซ์ อาคารเอ ชั้น 15 ถนนวิภาวดีรังสิต แขวงจตุจักร เขตจตุจักร กรุงเทพมหานคร โทรศัพท์ 02-265-8400



จัดทำโดย  
บริษัท ซีคอต จำกัด  
เลขที่ 239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร 10800  
โทรศัพท์ : +66(0)2959-3600 โทรสาร : +66(0)2959-3535  
Website : [www.secot.co.th](http://www.secot.co.th) Email : [envserv@secot.co.th](mailto:envserv@secot.co.th)

## รายงานผลการสำรวจระดับน้ำภายในบ่อสังเกตการณ์ และทิศทางการไหลของน้ำใต้ดิน

- |                       |  |
|-----------------------|--|
| 1. ชื่อโครงการ        | โรงโพลีสไตรีน  |
| 2. ที่ตั้งโครงการ     | เลขที่ 7 ถนนไอนหนึ่ง นิคมอุตสาหกรรมมาบตาพุด<br>อำเภอเมืองระยอง จังหวัดระยอง  |
| 3. ชื่อเจ้าของโครงการ | บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17   |
| 4. สถานที่ติดต่อ      | เลขที่ 555/1 ศูนย์เอนเนอร์ยี่คอมเพล็กซ์ อาคารเอ ชั้น 15<br>ถนนวิภาวดีรังสิต แขวงจตุจักร เขตจตุจักร กรุงเทพมหานคร<br>โทรศัพท์ : 02-265-8400 |
| 5. จัดทำโดย           | บริษัท ซีคอท จำกัด   |



บริษัท ซีคอต จำกัด  
SECOT CO., LTD.

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

หนังสือรับรองการจัดทำรายงานผลการสำรวจระดับน้ำภายในบ่อสังเกตการณ์  
และทิศทางการไหลของน้ำใต้ดิน

โรงโพลีสไตรีน บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17

วันที่ 2 มิถุนายน พ.ศ.2566

หนังสือฉบับนี้ขอรับรองว่า บริษัท ซีคอต จำกัด เป็นผู้จัดทำรายงานผลการสำรวจระดับน้ำภายในบ่อสังเกตการณ์และทิศทางการไหลของน้ำใต้ดิน โรงโพลีสไตรีน ตั้งอยู่ที่เลขที่ 7 ถนนไอนึ่ง นิคมอุตสาหกรรมมาบตาพุด อำเภอเมืองระยอง จังหวัดระยอง ของบริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17

โดยมีคณะผู้จัดทำรายงาน ดังต่อไปนี้

นายศักดา จันเดชชนะวงศ์

นางสาวลดาวัลย์ วงศ์เจริญ

นางสาวศศิธร พรหมประเสริฐ

  
.....  
(นายขรรชัย เกรียงไกรอุดม)

กรรมการผู้จัดการ

## รายงานผลการสำรวจระดับน้ำภายในบ่อสังเกตการณ์

### และทิศทางการไหลของน้ำใต้ดิน

#### โรงโพลีเอทรีน

#### บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17

บริษัท จีซี สโตรีนิคส์ จำกัด ได้มอบหมายให้บริษัท ซีคอต จำกัด ดำเนินการตรวจวัดระดับน้ำภายในบ่อสังเกตการณ์ และทิศทางการไหลของน้ำใต้ดิน ในวันที่ 28 มีนาคม พ.ศ.2566 ซึ่งมีรายละเอียดดังต่อไปนี้

#### 1. วัตถุประสงค์

เพื่อตรวจวัดค่าระดับน้ำภายในบ่อสังเกตการณ์ และทิศทางการไหลของน้ำใต้ดิน โรงโพลีเอทรีน บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17

#### 2. ขอบเขตของการตรวจวัด

ดำเนินการตรวจวัดค่าระดับน้ำภายในบ่อสังเกตการณ์ และทิศทางการไหลของน้ำใต้ดิน โรงโพลีเอทรีน บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17 จำนวน 5 บริเวณ ได้แก่ บ่อสังเกตการณ์ที่ 1 (MW-01) บ่อสังเกตการณ์ที่ 2 (MW-02) บ่อสังเกตการณ์ที่ 3 (MW-03) บ่อสังเกตการณ์ที่ 4 (MW-04) และบ่อสังเกตการณ์ที่ 5 (MW-05) (ตำแหน่งการตรวจวัด ดังแสดงในรูปที่ 1)

#### 3. วิธีการตรวจวัดและวิเคราะห์

ดำเนินการตรวจวัดระดับน้ำใต้ดินโดยหย่อนหัววัด (Water Level Meter) ลงไปในบ่อสังเกตการณ์ ซึ่งบริเวณหัววัดจะมีอุปกรณ์ตรวจจับสัญญาณ (Sensor) เมื่อสัมผัสกับน้ำในบ่อสังเกตการณ์จะส่งสัญญาณเสียงให้ทราบ และอ่านค่าได้จากความลึกของสายที่หย่อนลงไปในบ่อเทียบกับระดับปากท่อ

จากนั้นนำค่าระดับน้ำใต้ดินที่ได้ของแต่ละบ่อมาคำนวณอ้างอิงที่ระดับน้ำทะเลปานกลาง (MSL) ที่ได้ทำการถ่ายระดับมาไว้ที่ปากบ่อสังเกตการณ์ และนำมาพลอตลงในแผนที่ตามตำแหน่งที่ตรวจวัด และนำมาสร้างเส้นชั้นความสูงของน้ำใต้ดิน ด้วยโปรแกรม Surfer เพื่อให้ทราบทิศทางการไหลของน้ำใต้ดิน



รูปที่ 1 ตำแหน่งการสำรวจระดับน้ำใต้ดิน และทิศทางการไหลของน้ำใต้ดิน  
บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17



#### 4. ผลการตรวจวัด

ผลการตรวจวัดค่าระดับน้ำภายในบ่อสังเกตการณ์ และทิศทางการไหลของน้ำใต้ดิน ภายในพื้นที่ของโรงโพลีเอไตรีน บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17 ซึ่งดำเนินการตรวจวัดโดยบริษัท ซีคอท จำกัด ในวันที่ 28 มีนาคม พ.ศ.2566 จำนวน 5 บริเวณ ได้แก่ บ่อสังเกตการณ์ที่ 1 (MW-01) บ่อสังเกตการณ์ที่ 2 (MW-02) บ่อสังเกตการณ์ที่ 3 (MW-03) บ่อสังเกตการณ์ที่ 4 (MW-04) และบ่อสังเกตการณ์ที่ 5 (MW-05) โดยมีค่าระดับน้ำภายในบ่อสังเกตการณ์ ดังแสดงในตารางที่ 1 ค่าระดับน้ำใต้ดินเทียบกับระดับ MSL มีค่าระหว่าง 9.37-12.95 เมตร และทิศทางการไหลของน้ำใต้ดิน ดังแสดงในรูปที่ 2

ตารางที่ 1 ผลการสำรวจค่าระดับน้ำภายในบ่อสังเกตการณ์

สถานตรวจวัด	พิกัด	Zone	ระดับน้ำใต้ดิน (เมตร)		
			ความสูงของปากบ่อจากระดับน้ำทะเลปานกลาง (Elevation )	ระยะปากบ่อถึงระดับน้ำใต้ดิน (Water Level)	ค่าระดับน้ำใต้ดินเทียบกับระดับ MSL
บ่อสังเกตการณ์ที่ 1 (MW-01)	731636E, 1403623N	47P	10.83	0.97	9.86
บ่อสังเกตการณ์ที่ 2 (MW-02)	731597E, 1403519N	47P	11.86	2.49	9.37
บ่อสังเกตการณ์ที่ 3 (MW-03)	731419E, 1403514N	47P	12.06	0.98	11.08
บ่อสังเกตการณ์ที่ 4 (MW-04)	731425E, 1403680N	47P	13.68	1.40	12.28
บ่อสังเกตการณ์ที่ 5 (MW-05)	731521E, 1403801N	47P	14.38	1.43	12.95

หมายเหตุ : MSL หมายถึง Mean Sea Level ค่าระดับน้ำทะเลปานกลาง

ชื่อผู้ตรวจวัด : นายนิติพงษ์ จัมลิ้ม

ชื่อผู้บันทึก : นายนิติพงษ์ จัมลิ้ม

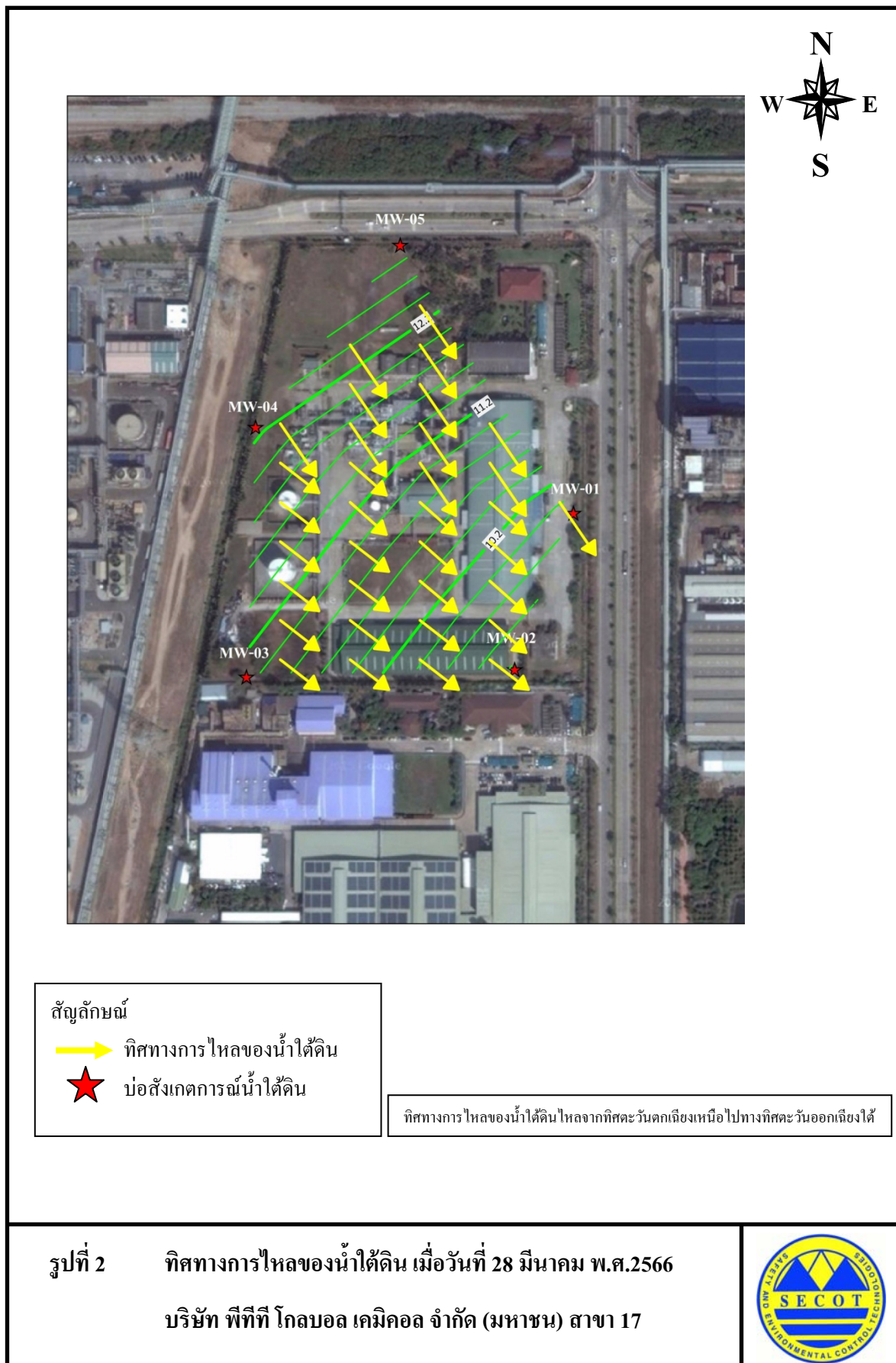
ชื่อผู้ตรวจสอบ/ควบคุม : นางสาวปรีดา สมใจ

ชื่อบริษัทผู้ตรวจวัดและวิเคราะห์ตัวอย่าง : บริษัท ซีคอท จำกัด

ชื่อผู้วิเคราะห์ : นางสาวเกศรินทร์ วรเดชาวิทยา

เลขที่ทะเบียนผู้วิเคราะห์ : -

เบอร์โทรศัพท์ : 02-959-3600



## 5. สรุปผลการตรวจวัด

จากการตรวจวัดค่าระดับน้ำภายในบ่อสังเกตการณ์ และทิศทางการไหลของน้ำใต้ดินภายในพื้นที่ของโรงโพลีสไตรีน บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17 ในวันที่ 28 มีนาคม พ.ศ.2566 จำนวน 5 บริเวณ ได้แก่ บ่อสังเกตการณ์ที่ 1 (MW-01) บ่อสังเกตการณ์ที่ 2 (MW-02) บ่อสังเกตการณ์ที่ 3 (MW-03) บ่อสังเกตการณ์ที่ 4 (MW-04) และบ่อสังเกตการณ์ที่ 5 (MW-05) พบว่าทิศทางการไหลของน้ำใต้ดินไหลจากทิศตะวันตกเฉียงเหนือไปทางทิศตะวันออกเฉียงใต้

ภาคผนวก

ภาพถ่ายการตรวจวัด



บริเวณบ่อสังเกตการณ์ที่ 1 (MW-01)



บริเวณบ่อสังเกตการณ์ที่ 2 (MW-02)



บริเวณบ่อสังเกตการณ์ที่ 3 (MW-03)

ภาพถ่ายการสำรวจระดับน้ำใต้ดิน และทิศทางการไหลของน้ำใต้ดิน

บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17





บริเวณบ่อสังเกตการณ์ที่ 4 (MW-04)



บริเวณบ่อสังเกตการณ์ที่ 5 (MW-05)

ภาพถ่ายการสำรวจระดับน้ำใต้ดิน และทิศทางการไหลของน้ำใต้ดิน(ต่อ)  
บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17



ผลการทดสอบคุณภาพอากาศในบริเวณการทำงาน

Request No. ATR6603034

Report No. 6603-0639

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch17  
ADDRESS : 7 I-1 Rd, Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE NAME : บริเวณ Pelletizer 1  
SAMPLING DATE : 14/03/2023 SAMPLE NO. : A66030639  
RECEIVED DATE : 17/03/2023 SAMPLING TIME : 08:05-10:05  
SAMPLING INSTRUMENT : Personal Pump Flow rate 1.00 L/min TESTED DATE : 17/03/2023-21/03/2023  
Serial No. 20200403079 REPORTED DATE : 24/03/2023

PARAMETER*	TEST METHOD	RESULT <sup>/3</sup>	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	ND	15	10	mg/m <sup>3</sup>

## REMARK:

<sup>/1</sup> Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)<sup>/3</sup> MDL = Method Detection Limit [ MDL of Total Dust = 0.3 mg/m<sup>3</sup> ] / ND = Not Detected

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

(Sampling By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

24/03/2023

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

Request No. ATR6606051

Report No. 6606-1205

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE NAME : บริเวณ Pelletizer 1  
 SAMPLING DATE : 19/06/2023 SAMPLE NO. : A66061205  
 RECEIVED DATE : 23/06/2023 SAMPLING TIME : 09:52-11:52  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 23/06/2023-26/06/2023  
 Serial No. 20181001044 REPORTED DATE : 26/06/2023

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	< 0.8	15	10	mg/m <sup>3</sup>

**REMARK:**<sup>/1</sup> Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

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

(Sampling By Mr. Aocha Khvansirimongkon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

26/06/2023

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6603034

Report No. 6603-0640

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch17  
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
 SAMPLE SOURCE : GC 17 Polystyrene Plant  
 SAMPLE NAME : บริเวณ Pelletizer 1  
 SAMPLING DATE : 14/03/2023  
 RECEIVED DATE : 17/03/2023  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min  
 Serial No. 218412

SAMPLE NO. : A66030640  
 SAMPLING TIME : 08:05-10:05  
 TESTED DATE : 17/03/2023-24/03/2023  
 REPORTED DATE : 24/03/2023

PARAMETER*	TEST METHOD	RESULT	STD <sup>1</sup>	STD <sup>2</sup>	UNIT
Styrene monomer	Sorbent Adsorption, Gas	< 3.78	426	42	mg/m <sup>3</sup>
	Chromatography/NIOSH 1501	< 0.89	100	10	ppm

## REMARK:

<sup>1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.<sup>2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

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

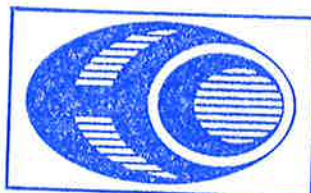
(Sampling By Mr. Wattana Khotla)

Examined By



(Miss Thanatporn Klinsohon)

24/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

24/03/2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6606051

Report No. 6606-1206

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE NAME : บริเวณ Pelletizer 1  
 SAMPLING DATE : 19/06/2023 SAMPLE NO. : A66061206  
 RECEIVED DATE : 23/06/2023 SAMPLING TIME : 09:52-11:52  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 23/06/2023-30/06/2023  
 Serial No. 218402 REPORTED DATE : 30/06/2023

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Styrene monomer	Sorbent Adsorption, Gas	< 3.78	426	42	mg/m <sup>3</sup>
	Chromatography/NIOSH 1501	< 0.89	100	10	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

\* 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. Aocha Khwansirimongkon)

Examined By

(Miss Thanatporn Klinsopon)

30/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

30/06/2023

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6603034

Report No. 6603-0641

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE NAME : บริเวณ Pelletizer 1  
SAMPLING DATE : 14/03/2023  
RECEIVED DATE : 17/03/2023  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min  
Serial No. 218408

SAMPLE NO. : A66030641  
SAMPLING TIME : 08:05-10:05  
TESTED DATE : 17/03/2023-24/03/2023  
REPORTED DATE : 24/03/2023

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Ethylbenzene	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.63	435	87	mg/m <sup>3</sup>
		< 0.83	100	20	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

\* 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. Wattana Khotla)

Examined By

(Miss Thanatporn Klinsoyon)

24/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

24/03/2023

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

Request No. ATR6606051

Report No. 6606-1207

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE NAME : บริเวณ Pelletizer 1  
SAMPLING DATE : 19/06/2023 SAMPLE NO. : A66061207  
RECEIVED DATE : 23/06/2023 SAMPLING TIME : 09:52-11:52  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 23/06/2023-30/06/2023  
Serial No. 218411 REPORTED DATE : 30/06/2023

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Ethylbenzene	Sorbent Adsorption, Gas	< 3.63	435	87	mg/m <sup>3</sup>
	Chromatography/NIOSH 1501	< 0.83	100	20	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

\* 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. Aocha Khwansirimongkon)

Examined By

(Miss Thanatporn Klinsopon)

30/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

30/06/2023

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

Request No. ATR6603034

Report No. 6603-0642

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE NAME : บริเวณ Pelletizer 2  
SAMPLING DATE : 14/03/2023  
RECEIVED DATE : 17/03/2023  
SAMPLING INSTRUMENT : Personal Pump Flow rate 1.00 L/min  
Serial No. 20200403061

SAMPLE NO. : A66030642  
SAMPLING TIME : 08:00-10:00  
TESTED DATE : 17/03/2023-21/03/2023  
REPORTED DATE : 24/03/2023

PARAMETER*	TEST METHOD	RESULT <sup>/3</sup>	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	ND	15	10	mg/m <sup>3</sup>

**REMARK:**<sup>/1</sup> Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)<sup>/3</sup> MDL = Method Detection Limit [ MDL of Total Dust = 0.3 mg/m<sup>3</sup> ] / ND = Not Detected

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

(Sampling By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

24/03/2023

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

Request No. ATR6606051

Report No. 6606-1208

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE NAME : บริเวณ Pelletizer 2  
 SAMPLING DATE : 19/06/2023 SAMPLE NO. : A66061208  
 RECEIVED DATE : 23/06/2023 SAMPLING TIME : 09:45-11:45  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 23/06/2023-26/06/2023  
 Serial No. 20180903082 REPORTED DATE : 26/06/2023

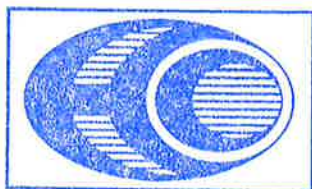
PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	< 0.8	15	10	mg/m <sup>3</sup>

## REMARK:

<sup>/1</sup> Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

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

(Sampling By Mr. Aocha Khwansirimongkon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

26/06/2023

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

Request No. ATR6603034

Report No. 6603-0643

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE NAME : บริเวณ Pelletizer 2  
SAMPLING DATE : 14/03/2023  
RECEIVED DATE : 17/03/2023  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min  
Serial No. 218432

SAMPLE NO. : A66030643  
SAMPLING TIME : 08:00-10:00  
TESTED DATE : 17/03/2023-24/03/2023  
REPORTED DATE : 24/03/2023

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Styrene monomer	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.78	426	42	mg/m <sup>3</sup>
		< 0.89	100	10	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

\* 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. Wattana Khotla)

Examined By

(Miss Thanatporn Klinsopon)

24/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

24/03/2023

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

Request No. ATR6606051

Report No. 6606-1209

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE NAME : บริเวณ Pelletizer 2  
 SAMPLING DATE : 19/06/2023 SAMPLE NO. : A66061209  
 RECEIVED DATE : 23/06/2023 SAMPLING TIME : 09:45-11:45  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 23/06/2023-30/06/2023  
 Serial No. 218406 REPORTED DATE : 30/06/2023

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Styrene monomer	Sorbent Adsorption, Gas	< 3.78	426	42	mg/m <sup>3</sup>
	Chromatography/NIOSH 1501	< 0.89	100	10	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

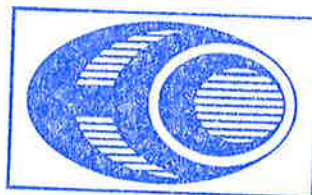
\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Aocha Khwansirimongkon)

Examined By

(Miss Thanatporn Klinsoon)

30/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

30/06/2023

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

Request No. ATR6603034

Report No. 6603-0644

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE NAME : บริเวณ Zn Loading Plant 1  
SAMPLING DATE : 14/03/2023  
RECEIVED DATE : 17/03/2023  
SAMPLING INSTRUMENT : Personal Pump Flow rate 1.00 L/min  
Serial No. 20180903078

SAMPLE NO. : A66030644  
SAMPLING TIME : 11:00-13:00  
TESTED DATE : 17/03/2023-21/03/2023  
REPORTED DATE : 24/03/2023

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	1.4	15	10	mg/m <sup>3</sup>

## REMARK:

<sup>/1</sup> Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)\* Parameter not have License Registration of Department of Labour Protection and Welfare.  
(Sampling By Mr. Wattana Khotla)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

24/03/2023

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

Request No. ATR6606051

Report No. 6606-1210

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7,1-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE NAME : บริเวณ Zn Loading at Plant 1  
 SAMPLING DATE : 19/06/2023 SAMPLE NO. : A66061210  
 RECEIVED DATE : 23/06/2023 SAMPLING TIME : 11:03-13:03  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 23/06/2023-26/06/2023  
 Serial No. 20200403078 REPORTED DATE : 26/06/2023

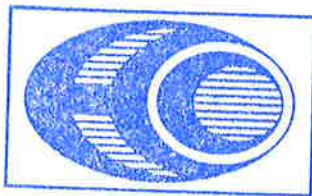
PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	< 0.8	15	10	mg/m <sup>3</sup>

## REMARK:

<sup>/1</sup> Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

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

(Sampling By Mr. Aocha Khwansirimongkon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

26/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. ATR6603034

Report No. 6603-0645

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch17  
 ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
 SAMPLE SOURCE : GC 17 Polystyrene Plant  
 SAMPLE NAME : บริเวณ Zn Loading Plant 2  
 SAMPLING DATE : 14/03/2023 SAMPLE NO. : A66030645  
 RECEIVED DATE : 17/03/2023 SAMPLING TIME : 11:00-13:00  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 1.00 L/min TESTED DATE : 17/03/2023-21/03/2023  
 Serial No. 20200403064 REPORTED DATE : 24/03/2023

PARAMETER*	TEST METHOD	RESULT <sup>/3</sup>	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	ND	15	10	mg/m <sup>3</sup>

## REMARK:

<sup>/1</sup> Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)<sup>/3</sup> MDL = Method Detection Limit [ MDL of Total Dust = 0.3 mg/m<sup>3</sup> ] / ND = Not Detected\* Parameter not have License Registration of Department of Labour Protection and Welfare.  
(Sampling By Mr. Wattana Khotla)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

24/03/2023

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

Request No. ATR6606051

Report No. 6606-1211

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE NAME : บริเวณ Zn Loading at Plant 2  
 SAMPLING DATE : 19/06/2023 SAMPLE NO. : A66061211  
 RECEIVED DATE : 23/06/2023 SAMPLING TIME : 11:00-13:00  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 23/06/2023-26/06/2023  
 Serial No. 20200403073 REPORTED DATE : 26/06/2023

PARAMETER*	TEST METHOD	RESULT <sup>/3</sup>	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	ND	15	10	mg/m <sup>3</sup>

## REMARK:

<sup>/1</sup> Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)<sup>/3</sup> MDL = Method Detection Limit [ MDL of Total Dust = 0.3 mg/m<sup>3</sup> ] / ND = Not Detected

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

(Sampling By Mr. Aocha Khwansirimongkon)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

26/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6603034

Report No. 6603-0646

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE NAME : บริเวณ Bagging Unit  
SAMPLING DATE : 14/03/2023 SAMPLE NO. : A66030646  
RECEIVED DATE : 17/03/2023 SAMPLING TIME : 08:08-10:08  
SAMPLING INSTRUMENT : Personal Pump Flow rate 1.00 L/min TESTED DATE : 17/03/2023-21/03/2023  
Serial No. 20150302004 REPORTED DATE : 24/03/2023

PARAMETER*	TEST METHOD	RESULT <sup>/3</sup>	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	ND	15	10	mg/m <sup>3</sup>

**REMARK:**<sup>/1</sup> Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)<sup>/3</sup> MDL = Method Detection Limit [ MDL of Total Dust = 0.3 mg/m<sup>3</sup> ] / ND = Not Detected

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

(Sampling By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

24/03/2023

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

Request No. ATR6606051

Report No. 6606-1212

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7, I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE NAME : บริเวณ Bagging Unit  
 SAMPLING DATE : 19/06/2023 SAMPLE NO. : A66061212  
 RECEIVED DATE : 23/06/2023 SAMPLING TIME : 09:55-11:55  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 2.00 L/min TESTED DATE : 23/06/2023-26/06/2023  
 Serial No. 20200403062 REPORTED DATE : 26/06/2023

PARAMETER*	TEST METHOD	RESULT <sup>3</sup>	STD <sup>1</sup>	STD <sup>2</sup>	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	ND	15	10	mg/m <sup>3</sup>

## REMARK:

<sup>1</sup> Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.<sup>2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)<sup>3</sup> MDL = Method Detection Limit [ MDL of Total Dust = 0.3 mg/m<sup>3</sup> ] / ND = Not Detected

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

(Sampling By Mr. Aocha Khvansirimongkon)



Examined By.....

(Mr. Kawee Suthasub)

26/06/2023

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

Request No. ATR6603034

Report No. 6603-0647

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE NAME : บริเวณห้องตัดยาง  
SAMPLING DATE : 14/03/2023  
RECEIVED DATE : 17/03/2023  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min  
Serial No. 20150302004

SAMPLE NO. : A66030647  
SAMPLING TIME : 08:02-10:02  
TESTED DATE : 17/03/2023-24/03/2023  
REPORTED DATE : 24/03/2023

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Styrene monomer	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.78	426	42	mg/m <sup>3</sup>
		< 0.89	100	10	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

\* 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. Wattana Khotla)

Examined By

(Miss Thanatporn Klinsoon)

24/03/2023



Approved By

(Mr. Kawee Suthasub)

24/03/2023

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

Request No. ATR6606051

Report No. 6606-1213

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE NAME : บริเวณห้องตัดยาง  
 SAMPLING DATE : 19/06/2023  
 RECEIVED DATE : 23/06/2023  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min  
 Serial No. 218413  
 SAMPLE NO. : A66061213  
 SAMPLING TIME : 09:49-11:49  
 TESTED DATE : 23/06/2023-30/06/2023  
 REPORTED DATE : 30/06/2023

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Styrene monomer	Sorbent Adsorption, Gas	< 3.78	426	42	mg/m <sup>3</sup>
	Chromatography/NIOSH 1501	< 0.89	100	10	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

\* 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. Aocha Khwansirimongkon)

Examined By

(Miss Thanatporn Klinsopon)

30/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

30/06/2023

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

Request No. ATR6603044

Report No. 6603-0796

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE NAME : บริเวณ SM Truck Loading  
SAMPLING DATE : 20/03/2023  
RECEIVED DATE : 23/03/2023  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min  
Serial No. 218412

SAMPLE NO. : A66030796  
SAMPLING TIME : 08:15-10:15  
TESTED DATE : 23/03/2023-24/03/2023  
REPORTED DATE : 24/03/2023

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Styrene monomer	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.78	426	42	mg/m <sup>3</sup>
		< 0.89	100	10	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

\* 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. Wattana Khotla)

Examined By

(Miss Thanatporn Klinsopon)

24/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

24/03/2023

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

Request No. ATR6606048

Report No. 6606-1041

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7,1-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE NAME : บริเวณ SM Truck Loading  
SAMPLING DATE : 14/06/2023  
RECEIVED DATE : 20/06/2023  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min  
Serial No. 218405

SAMPLE NO. : A66061041  
SAMPLING TIME : 08:35-09:35  
TESTED DATE : 20/06/2023-22/06/2023  
REPORTED DATE : 22/06/2023

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Styrene monomer	Sorbent Adsorption, Gas	< 3.78	426	42	mg/m <sup>3</sup>
	Chromatography/NIOSH 1501	< 0.89	100	10	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

\* 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. Aocha Khwansirimongkon)

Examined By

(Miss Thanatporn Klinsopon)

22/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

22/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. ATR6603044

Report No. 6603-0798

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch17  
ADDRESS : 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150  
SAMPLE SOURCE : GC 17 Polystyrene Plant  
SAMPLE NAME : บริเวณ จุดขนถ่าย Ethyl Benzene  
SAMPLING DATE : 20/03/2023 SAMPLE NO. : A66030798  
RECEIVED DATE : 23/03/2023 SAMPLING TIME : 17:40-19:40  
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 23/03/2023-24/03/2023  
Serial No. 218444 REPORTED DATE : 24/03/2023

PARAMETER*	TEST METHOD	RESULT	STD <sup>1/</sup>	STD <sup>2/</sup>	UNIT
Ethylbenzene	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.63	435	87	mg/m <sup>3</sup>
		< 0.83	100	20	ppm

## REMARK:

<sup>1/</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.<sup>2/</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

\* 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. Wattana Khotla)

Examined By

(Miss Thanatporn Klinsoyon)

24/03/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

24/03/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. ATR6606058

Report No. 6606-1391

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7,1-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE NAME : บริเวณจุดขนถ่าย Ethylbenzene  
 SAMPLING DATE : 23/06/2023  
 RECEIVED DATE : 26/06/2023  
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min  
 Serial No. 218432

SAMPLE NO. : A66061391  
 SAMPLING TIME : 14:22-16:22  
 TESTED DATE : 26/06/2023-30/06/2023  
 REPORTED DATE : 30/06/2023

PARAMETER*	TEST METHOD	RESULT	STD <sup>/1</sup>	STD <sup>/2</sup>	UNIT
Ethylbenzene	Sorbent Adsorption, Gas	< 3.63	435	87	mg/m <sup>3</sup>
	Chromatography/NIOSH 1501	< 0.83	100	20	ppm

## REMARK:

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.<sup>/2</sup> American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

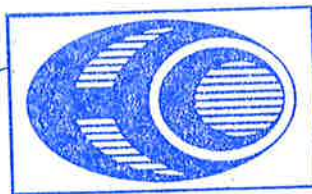
\* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

Examined By

(Miss Thanatporn Klinsoon)

30/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

30/06/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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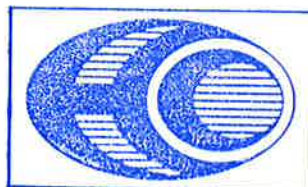
ผลการตรวจวัดระดับเสียงในบริเวณการทำงาน

**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : ห้องตัดเม็ด (X-133)  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  12 hr. &  $L_{max}$  SAMPLE NO. : 02835  
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 14/03/2023  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 14/03/2023  
S/N 01209912 : Class 2 REPORTED DATE : 20/03/2023

MEASURING TIME	RESULT		UNIT
	$L_{eq}$ 1 hr.	$L_{max}$	
07:20-08:20	86.0	88.8	dB(A)
08:20-09:20	68.1	73.5	dB(A)
09:20-10:20	68.0	70.3	dB(A)
10:20-11:20	68.2	69.8	dB(A)
11:20-12:20	67.5	76.3	dB(A)
12:20-13:20	67.5	73.1	dB(A)
13:20-14:20	68.1	73.9	dB(A)
14:20-15:20	68.2	69.5	dB(A)
15:20-16:20	67.6	68.4	dB(A)
16:20-17:20	68.2	77.3	dB(A)
17:20-18:20	79.1	88.0	dB(A)
18:20-19:20	87.2	88.2	dB(A)
$L_{eq}$ 12 hr.	79.5	—	dB(A)
Standard	87 <sup>1)</sup>	140 <sup>1)</sup> , 115 <sup>2)</sup>	dB(A)

**REMARK :** <sup>1)</sup> Notification of The Ministry of Industry B.E. 2546 (2003)  
<sup>2)</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
\* Ms. Thanatporn Klinsoon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management  
(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By   
(MRS. WANPEN LHAOCHINDAWAT)

20/03/2023

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**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : ห้องตัดเม็ด (2X-233)  
PARAMETER\* : L<sub>eq</sub> 1 hr., L<sub>eq</sub> 12 hr. & L<sub>max</sub> SAMPLE NO. : 02836  
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 14/03/2023  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 14/03/2023  
S/N 01209915 : Class 2 REPORTED DATE : 20/03/2023

MEASURING TIME	RESULT		UNIT
	L <sub>eq</sub> 1 hr.	L <sub>max</sub>	
07:05-08:05	90.0	91.2	dB(A)
08:05-09:05	81.9	90.2	dB(A)
09:05-10:05	71.8	73.2	dB(A)
10:05-11:05	72.0	73.6	dB(A)
11:05-12:05	71.9	73.2	dB(A)
12:05-13:05	71.8	73.1	dB(A)
13:05-14:05	72.6	73.9	dB(A)
14:05-15:05	72.3	74.0	dB(A)
15:05-16:05	70.9	71.9	dB(A)
16:05-17:05	71.1	78.5	dB(A)
17:05-18:05	70.7	71.9	dB(A)
18:05-19:05	90.1	92.2	dB(A)
L <sub>eq</sub> 12 hr.	82.8	—	dB(A)
Standard	87 <sup>1)</sup>	140 <sup>1)</sup> , 115 <sup>2)</sup>	dB(A)

**REMARK :** <sup>1)</sup> Notification of The Ministry of Industry B.E. 2546 (2003)  
<sup>2)</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
\* Ms. Thanatporn Klinsopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management  
(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(MRS. WANPEN LHAOCHINDAWAT)

20/03/2023

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**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : Bagging Unit  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  8 hr. &  $L_{max}$  SAMPLE NO. : 02843  
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 14/03/2023  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 14/03/2023  
S/N 00310458 : Class 2 REPORTED DATE : 20/03/2023

MEASURING TIME	RESULT		UNIT
	$L_{eq}$ 1 hr.	$L_{max}$	
08:00-09:00	80.3	86.6	dB(A)
09:00-10:00	80.4	82.7	dB(A)
10:00-11:00	75.9	82.1	dB(A)
11:00-12:00	72.9	82.0	dB(A)
12:00-13:00	80.1	88.2	dB(A)
13:00-14:00	81.1	89.9	dB(A)
14:00-15:00	80.8	93.1	dB(A)
15:00-16:00	80.2	84.7	dB(A)
$L_{eq}$ 8 hr.	79.6	—	dB(A)
Standard	90 <sup>1)</sup>	140 <sup>1)</sup> , 115 <sup>2)</sup>	dB(A)

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

<sup>2)</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)

\* Ms. Thanatporn Klinsoon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management  
(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

  
(MRS. WANPEN LHAOCHINDAWAT)

20/03/2023

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**TEST REPORT**

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : Vacuum Pump  
PARAMETER\* :  $L_{eq}$  1 hr.,  $L_{eq}$  12 hr. &  $L_{max}$  SAMPLE NO. : 02837  
DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 14/03/2023  
INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 14/03/2023  
S/N 00443359 : Class 2 REPORTED DATE : 20/03/2023

MEASURING TIME	RESULT		UNIT
	$L_{eq}$ 1 hr.	$L_{max}$	
07:15-08:15	87.6	89.1	dB(A)
08:15-09:15	80.4	89.8	dB(A)
09:15-10:15	78.8	89.9	dB(A)
10:15-11:15	77.7	92.1	dB(A)
11:15-12:15	77.3	79.3	dB(A)
12:15-13:15	77.3	78.3	dB(A)
13:15-14:15	78.6	92.3	dB(A)
14:15-15:15	77.7	84.7	dB(A)
15:15-16:15	78.8	91.6	dB(A)
16:15-17:15	80.3	99.0	dB(A)
17:15-18:15	79.7	88.0	dB(A)
18:15-19:15	87.6	88.1	dB(A)
$L_{eq}$ 12 hr.	82.0	—	dB(A)
Standard	87 <sup>1)</sup>	140 <sup>1)</sup> , 115 <sup>2)</sup>	dB(A)

**REMARK :** <sup>1)</sup> Notification of The Ministry of Industry B.E. 2546 (2003)  
<sup>2)</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
\* Ms. Thanatporn Klinsopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management  
(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

20/03/2023

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**TEST REPORT**

CUSTOMER	PTT Global Chemical Public Company Limited Branch 17	SAMPLE NO.	02838
ADDRESS	7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150	MEASURING DATE	14/03/2023
SAMPLE SOURCE	GC17 Polystyrene Plant	RECEIVED DATE	14/03/2023
SAMPLE POINT	ห้องตัดยาง	REPORTED DATE	20/03/2023
PARAMETER*	$L_{eq}$ 1 hr., $L_{eq}$ 12 hr. & $L_{max}$		
DETERMINATION METHOD	ISO 11202:2010		
INSTRUMENT	Integrated Sound Level Meter		
	S/N 00209079 : Class 2		

MEASURING TIME	RESULT		UNIT
	$L_{eq}$ 1 hr.	$L_{max}$	
07:10-08:10	78.7	82.2	dB(A)
08:10-09:10	82.9	97.3	dB(A)
09:10-10:10	82.9	97.0	dB(A)
10:10-11:10	79.3	87.0	dB(A)
11:10-12:10	78.2	79.4	dB(A)
12:10-13:10	78.2	78.6	dB(A)
13:10-14:10	83.1	100.4	dB(A)
14:10-15:10	78.2	81.1	dB(A)
15:10-16:10	82.0	96.4	dB(A)
16:10-17:10	83.2	97.4	dB(A)
17:10-18:10	83.2	98.0	dB(A)
18:10-19:10	78.6	82.0	dB(A)
$L_{eq}$ 12 hr.	81.3	—	dB(A)
Standard	87 <sup>1)</sup>	140 <sup>1)</sup> , 115 <sup>2)</sup>	dB(A)

**REMARK :**

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

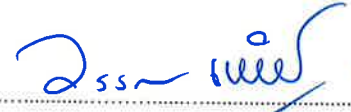
<sup>2)</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)

\* Ms. Thanatporn Klinsopon is Section Head / Mrs. Wanpen Lhaochindawat is Technical Management  
(Measurement By Mr. Wattana Khotla)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

  
(MRS. WANPEN LHAOCHINDAWAT)

20/03/2023

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## ผลการตรวจวัดระดับเสียงสะสม (Noise Dose)

Request No. LA66-R0369

Report No. R6603-1530

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (ศูนย์วัดแวนน์ หมู่แก้วเครือ ID 26004537)  
 MEASURING DATE : 24/03/2023 SAMPLE NO. : 03466  
 RECEIVED DATE : 24/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0956 REPORTED DATE : 29/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	78.6	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	93.7	115 <sup>/3</sup>	dB(A)
12 Hour dose	34.70	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	80.4	85 <sup>/1</sup>	dB(A)

**REMARK :**

- <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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 อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

29/03/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA66-R0369

Report No. R6603-1531

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (คุณนันท์วัฒน์ จิตรเอื้อ ID 26004560)  
 MEASURING DATE : 24/03/2023 SAMPLE NO. : 03467  
 RECEIVED DATE : 24/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0958 REPORTED DATE : 29/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	58.0	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	83.7	115 <sup>/3</sup>	dB(A)
12 Hour dose	0.30	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	59.8	85 <sup>/1</sup>	dB(A)

**REMARK :**

- <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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)

29/03/2023

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Request No. LA66-R0356

Report No. R6603-1171

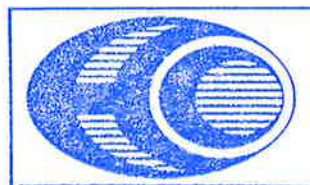
## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (คู่มือประจำ อ่อนนามวงศ์ ID 26004526)  
 MEASURING DATE : 16/03/2023 SAMPLE NO. : 03116  
 RECEIVED DATE : 20/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0956 REPORTED DATE : 24/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	67.2	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	90.0	115 <sup>/3</sup>	dB(A)
12 Hour dose	2.50	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	69.0	85 <sup>/1</sup>	dB(A)

**REMARK :**

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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 อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/03/2023

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 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-R0356

Report No. R6603-1172

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (คุณอชิษฐ์ อึ้งพิทักษ์เดช ID 26008372)  
 MEASURING DATE : 16/03/2023 SAMPLE NO. : 03117  
 RECEIVED DATE : 20/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0643 REPORTED DATE : 24/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	65.5	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	87.8	115 <sup>/3</sup>	dB(A)
12 Hour dose	1.70	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	67.3	85 <sup>/1</sup>	dB(A)

**REMARK :**

- <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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)

24/03/2023

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Request No. LA66-R0356

Report No. R6603-1173

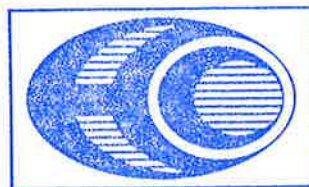
## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (คุณอิทธิพล วาดถนน ID 26004571)  
 MEASURING DATE : 16/03/2023 SAMPLE NO. : 03118  
 RECEIVED DATE : 20/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0640 REPORTED DATE : 24/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	75.9	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	93.4	115 <sup>/3</sup>	dB(A)
12 Hour dose	18.50	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	77.7	85 <sup>/1</sup>	dB(A)

**REMARK :**

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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)



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

24/03/2023

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Request No. LA66-R0356

Report No. R6603-1174

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (คุณสุรเชษฐ์ ศรีสุวรรณ ID 26004543)  
 MEASURING DATE : 16/03/2023 SAMPLE NO. : 03119  
 RECEIVED DATE : 20/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0957 REPORTED DATE : 24/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	77.6	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	101.1	115 <sup>/3</sup>	dB(A)
12 Hour dose	27.00	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	79.3	85 <sup>/1</sup>	dB(A)

**REMARK :**

- <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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)

24/03/2023

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Request No. LA66-R0356

Report No. R6603-1183

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณนเรศ น่วมบัว ID 26004552)  
 MEASURING DATE : 20/03/2023 SAMPLE NO. : 03128  
 RECEIVED DATE : 20/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0956 REPORTED DATE : 24/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	81.2	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	93.3	115 <sup>/3</sup>	dB(A)
12 Hour dose	62.60	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	83.0	85 <sup>/1</sup>	dB(A)

**REMARK :**

- <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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)

24/03/2023

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Request No. LA66-R0356

Report No. R6603-1184

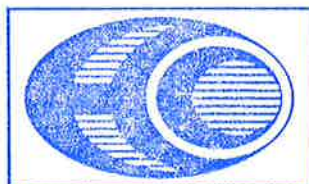
## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณภาพสินค้า ID 26009930)  
 MEASURING DATE : 20/03/2023 SAMPLE NO. : 03129  
 RECEIVED DATE : 20/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0644 REPORTED DATE : 24/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	78.7	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	96.2	115 <sup>/3</sup>	dB(A)
12 Hour dose	35.20	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	80.5	85 <sup>/1</sup>	dB(A)

**REMARK :**

- <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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)



Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/03/2023

 บริษัท อีสเทิร์นไทย คอนซัลติ้ง 1992 จำกัด  
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Request No. LA66-R0356

Report No. R6603-1185

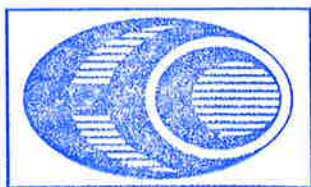
## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณกฤษฎา พรหมกุลจันทร์ ID 26004547)  
 MEASURING DATE : 20/03/2023 SAMPLE NO. : 03130  
 RECEIVED DATE : 20/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0957 REPORTED DATE : 24/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	78.7	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	96.2	115 <sup>/3</sup>	dB(A)
12 Hour dose	35.20	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	80.5	85 <sup>/1</sup>	dB(A)

**REMARK :**

- <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- <sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- <sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)
- <sup>#</sup> 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)

24/03/2023

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Request No. LA66-R0376

Report No. R6603-1644

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณภาพ สูงแสง ID 26004540)  
 MEASURING DATE : 29/03/2023 SAMPLE NO. : 03583  
 RECEIVED DATE : 29/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0957 REPORTED DATE : 01/04/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	72.6	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	88.8	115 <sup>/3</sup>	dB(A)
12 Hour dose	8.70	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	74.4	85 <sup>/1</sup>	dB(A)

**REMARK :**

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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. Jutarat Suksaget)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

01/04/2023

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Request No. LA66-R0376

Report No. R6603-1645

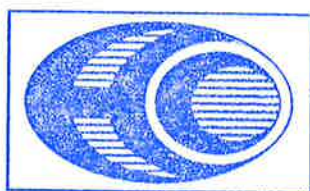
## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณนิเวศ ใจจิตร ID 26004557)  
 MEASURING DATE : 29/03/2023 SAMPLE NO. : 03584  
 RECEIVED DATE : 29/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0956 REPORTED DATE : 01/04/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	70.9	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	92.3	115 <sup>/3</sup>	dB(A)
12 Hour dose	5.80	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	72.6	85 <sup>/1</sup>	dB(A)

**REMARK :**

- <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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. Jutarat Suksaget)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

01/04/2023

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Request No. LA66-R0376

Report No. R6603-1646

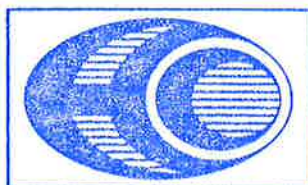
## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณสมบัติเกียรติ ทองทวีทรัพย์ ID 26004536)  
 MEASURING DATE : 29/03/2023 SAMPLE NO. : 03585  
 RECEIVED DATE : 29/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0958 REPORTED DATE : 01/04/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	78.5	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	94.1	115 <sup>/3</sup>	dB(A)
12 Hour dose	33.60	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	80.3	85 <sup>/1</sup>	dB(A)

**REMARK :**

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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. Jutarat Suksaget)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

01/04/2023

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Request No. LA66-R0345

Report No. R6603-0886

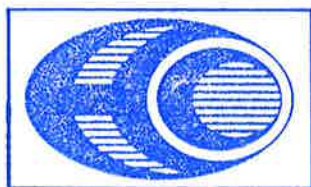
## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (คุณชาญวิทย์ อภิรัชตกุล ID 26004569)  
MEASURING DATE : 14/03/2023 SAMPLE NO. : 02828  
RECEIVED DATE : 14/03/2023 SAMPLING TIME : 07:00-19:00  
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0642 REPORTED DATE : 20/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	67.0	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	87.9	115 <sup>/3</sup>	dB(A)
12 Hour dose	2.40	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	68.8	85 <sup>/1</sup>	dB(A)

**REMARK :**

- <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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)

20/03/2023

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Request No. LA66-R0345

Report No. R6603-0887

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (คุณปวนิตย์ รัตนภูษา ID 26004533)  
 MEASURING DATE : 14/03/2023 SAMPLE NO. : 02829  
 RECEIVED DATE : 14/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0641 REPORTED DATE : 20/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	60.2	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	85.5	115 <sup>/3</sup>	dB(A)
12 Hour dose	0.50	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	62.0	85 <sup>/1</sup>	dB(A)

**REMARK :**

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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 อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Approved By

(MRS. WANPEN LHAOCHINDAWAT)

20/03/2023

Request No. LA66-R0345

Report No. R6603-0888

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (จุดบันทึก คงสาร ID 26004561)  
 MEASURING DATE : 14/03/2023 SAMPLE NO. : 02830  
 RECEIVED DATE : 14/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0958 REPORTED DATE : 20/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	67.9	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	90.8	115 <sup>/3</sup>	dB(A)
12 Hour dose	2.90	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	69.6	85 <sup>/1</sup>	dB(A)

**REMARK :**

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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)

20/03/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA66-R0345

Report No. R6603-0889

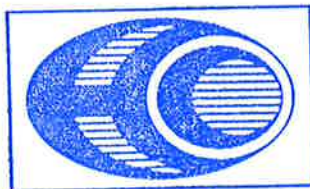
## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (คุณสมบัติพิเศษ ID 26004532)  
 MEASURING DATE : 14/03/2023 SAMPLE NO. : 02831  
 RECEIVED DATE : 14/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0956 REPORTED DATE : 20/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	79.0	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	101.0	115 <sup>/3</sup>	dB(A)
12 Hour dose	38.00	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	80.8	85 <sup>/1</sup>	dB(A)

**REMARK :**

- <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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)



Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

20/03/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA66-R0345

Report No. R6603-0890

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (คุณเดชา ไพฑูริย์ ID 26004524)  
 MEASURING DATE : 14/03/2023 SAMPLE NO. : 02832  
 RECEIVED DATE : 14/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0957 REPORTED DATE : 20/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	60.2	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	85.4	115 <sup>/3</sup>	dB(A)
12 Hour dose	0.50	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	62.0	85 <sup>/1</sup>	dB(A)

**REMARK :**

- <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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)

20/03/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA66-R0356

Report No. R6603-1175

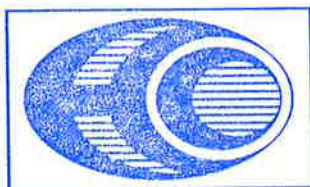
## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณสมบัติพจนานุกรม ID 26004539)  
 MEASURING DATE : 16/03/2023 SAMPLE NO. : 03120  
 RECEIVED DATE : 20/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0644 REPORTED DATE : 24/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	62.8	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	87.2	115 <sup>/3</sup>	dB(A)
12 Hour dose	0.90	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	64.5	85 <sup>/1</sup>	dB(A)

**REMARK :**

- <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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)



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

24/03/2023

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด  
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Request No. LA66-R0356

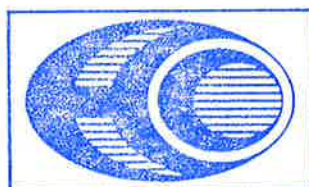
Report No. R6603-1176

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณสมบัติ พรหมสร ID 26004556)  
 MEASURING DATE : 16/03/2023 SAMPLE NO. : 03121  
 RECEIVED DATE : 20/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0958 REPORTED DATE : 24/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	64.4	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	90.7	115 <sup>/3</sup>	dB(A)
12 Hour dose	1.30	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	66.1	85 <sup>/1</sup>	dB(A)

**REMARK :** <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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)

24/03/2023

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Request No. LA66-R0356

Report No. R6603-1179

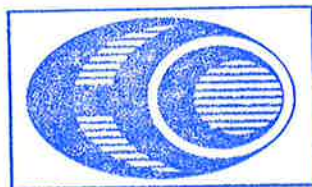
## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณพิเชษฐ์ หวานสนิท ID 26004553)  
MEASURING DATE : 17/03/2023 SAMPLE NO. : 03124  
RECEIVED DATE : 20/03/2023 SAMPLING TIME : 07:00-19:00  
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0957 REPORTED DATE : 24/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	56.2	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	85.3	115 <sup>/3</sup>	dB(A)
12 Hour dose	0.20	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	58.0	85 <sup>/1</sup>	dB(A)

**REMARK :**

- <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)
- <sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998
- <sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)
- <sup>#</sup> 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 อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

24/03/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA66-R0356

Report No. R6603-1180

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (ศูนย์วัดแฉก ฆรรคนเสว็ด ID 26004535)  
 MEASURING DATE : 17/03/2023 SAMPLE NO. : 03125  
 RECEIVED DATE : 20/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0956 REPORTED DATE : 24/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	61.7	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	85.8	115 <sup>/3</sup>	dB(A)
12 Hour dose	0.70	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	63.5	85 <sup>/1</sup>	dB(A)

**REMARK :**

- <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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 อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/03/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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Request No. LA66-R0356

Report No. R6603-1181

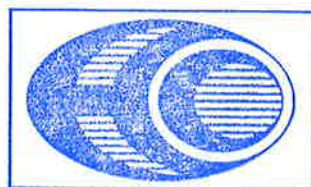
## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณจักรกริณี สมพรชัยกิจ ID 26004563)  
 MEASURING DATE : 17/03/2023 SAMPLE NO. : 03126  
 RECEIVED DATE : 20/03/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0644 REPORTED DATE : 24/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	73.9	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	91.2	115 <sup>/3</sup>	dB(A)
12 Hour dose	11.60	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	75.6	85 <sup>/1</sup>	dB(A)

**REMARK :**

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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 อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

24/03/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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Request No. LA66-R0418

Report No. R6604-0240

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณณรงค์ สว่างดี ID 26004574)  
 MEASURING DATE : 05/04/2023 SAMPLE NO. : 04080  
 RECEIVED DATE : 05/04/2023 SAMPLING TIME : 07:00-19:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0641 REPORTED DATE : 11/04/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA) <sup>#</sup>	67.4	83 <sup>/1</sup>	dB(A)
L <sub>max</sub> 12 hr	90.9	115 <sup>/3</sup>	dB(A)
12 Hour dose	2.60	100 <sup>/2</sup>	%
Time weighted average level (8-hr TWA) <sup>#</sup>	69.1	85 <sup>/1</sup>	dB(A)

**REMARK :**

- <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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)

11/04/2023

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Request No. LA66-R0345

Report No. R6603-0892

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : Bagging Unit (GPPS) (คุณอภิวัฒน์ สารรัมย์ ID 30633901)  
MEASURING DATE : 14/03/2023 SAMPLE NO. : 02834  
RECEIVED DATE : 14/03/2023 SAMPLING TIME : 08:00-17:00  
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0644 REPORTED DATE : 20/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (8-hr TWA) <sup>#</sup>	70.3	85 <sup>/1</sup>	dB(A)
L <sub>max</sub> 8 hr	84.2	115 <sup>/3</sup>	dB(A)
8 Hour dose	3.40	100 <sup>/2</sup>	%


**REMARK :**

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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 อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

  
(MRS. WANPEN LHAOCHINDAWAT)

20/03/2023

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Request No. LA66-R0345

Report No. R6603-1178

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : Bagging Unit (HIPS, GPPS) (คุณสิทธิกร เมืองชมพร ID 30657101)  
 MEASURING DATE : 16-17/03/2023 SAMPLE NO. : 03123  
 RECEIVED DATE : 20/03/2023 SAMPLING TIME : 16:00-01:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0641 REPORTED DATE : 24/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (8-hr TWA) <sup>#</sup>	69.0	85 <sup>/1</sup>	dB(A)
L <sub>max</sub> 8 hr	89.0	115 <sup>/3</sup>	dB(A)
8 Hour dose	2.50	100 <sup>/2</sup>	%

**REMARK :**

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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 อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

24/03/2023

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Request No. LA66-R0345

Report No. R6603-0891

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
 ADDRESS : 7 I-I Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
 SAMPLE SOURCE : GC17 Polystyrene Plant  
 SAMPLE POINT : Bagging Unit (HIPS) (คุณสมบัติ พรหมรอด ID 30621897)  
 MEASURING DATE : 14/03/2023 SAMPLE NO. : 02833  
 RECEIVED DATE : 14/03/2023 SAMPLING TIME : 08:00-17:00  
 SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0643 REPORTED DATE : 20/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (8-hr TWA) <sup>#</sup>	62.3	85 <sup>/1</sup>	dB(A)
L <sub>max</sub> 8 hr	84.2	115 <sup>/3</sup>	dB(A)
8 Hour dose	0.54	100 <sup>/2</sup>	%

**REMARK :**

- <sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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)



Approved By

(MRS. WANPEN LHAOCHINDAWAT)

20/03/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด  
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Request No. LA66-R0345

Report No. R6603-1177

## TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17  
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150  
SAMPLE SOURCE : GC17 Polystyrene Plant  
SAMPLE POINT : บริเวณพื้นที่กระบวนการผลิต (Morning Shift) ผู้ช่วยช่าง (คุณอุดม ชื่นอารมย์ ID OOGI02181)  
MEASURING DATE : 16/03/2023 SAMPLE NO. : 03122  
RECEIVED DATE : 20/03/2023 SAMPLING TIME : 08:00-17:00  
SAMPLING INSTRUMENT : Noise dosimeter : S/N CB0642 REPORTED DATE : 24/03/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (8-hr TWA) <sup>#</sup>	84.3	85 <sup>/1</sup>	dB(A)
L <sub>max</sub> 8 hr	102.7	115 <sup>/3</sup>	dB(A)
8 Hour dose	85.00	100 <sup>/2</sup>	%

**REMARK :**

<sup>/1</sup> Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)  
<sup>/2</sup> Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998  
<sup>/3</sup> Regulation of The Ministry of Labour B.E. 2559 (2016)  
<sup>#</sup> 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)

24/03/2023

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