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ภาคผนวก

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หนังสือรับรองผลการตรวจวิเคราะห์

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คุณภาพอากาศจากปล่องระบาย

**Report No. : 2024-500001524-2 / 001-1 (Page 1 of 3)**

**Issued date :** June 21, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** **Fax. :** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Emission Air Quality

**SAMPLING DATE :** May 28, 2024

**SAMPLING LOCATION :** RTO Stack

**SAMPLING TIME :** 11.05-11.58

**SAMPLING BY :**

Parameter		Unit	Value	Standard <sup>1/</sup>	Standard <sup>2/</sup>	Analytical Method
Fuel Type		-	Natural gas	-	-	-
Stack Diameter		cm	182	-	-	-
Stack Height		m	30.5	-	-	-
Stack Temperature		°C	105.8	-	-	-
Dry Gas Temperature		°C	34.8	-	-	-
Absolute Stack Pressure		mm.Hg	755.7	-	-	-
Air Velocity		m/s	10.82	-	-	U.S.EPA Method 2
Volumetric Flow Rate		Nm³/hr	72,160	-	-	U.S.EPA Method 2
Moisture		%	8.91	-	-	U.S.EPA Method 4
O <sub>2</sub>		%	20.50	-	-	U.S.EPA Method 3
CO <sub>2</sub>		%	0.32	-	-	U.S.EPA Method 3
TSP	at actual O <sub>2</sub>	mg/Nm³	0.48	320	200	U.S.EPA Method 5
	at 7 % O <sub>2</sub>	mg/Nm³	16.75	-	-	
	Emission Rate	g/sec	0.00966	-	5.94	-
SO <sub>2</sub>	at actual O <sub>2</sub>	mg/Nm³ (ppm)	3.90 (1.49)	157 (60)	157 (60)	U.S.EPA Method 6
	at 7 % O <sub>2</sub>	mg/Nm³ (ppm)	132.07 (50.40)	-	-	
	Emission Rate	g/sec	0.07826	-	4.66	-

**Remarks :** - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.

**Sources :** <sup>1/</sup> Notification of Ministry of Industry B.E.2549 (2006)

<sup>2/</sup> Emission Air Standard according to EIA study of ABS/SAN Plant, Approval Letter No. Tor Sor 1010.8/8026.

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**Report No. : 2024-500001524-2 / 001-1 (Page 2 of 3)**

**Issued date :** June 21, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
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## Analysis Report

**SAMPLE DESIGNATED AS :** Emission Air Quality

**SAMPLING DATE :** May 28, 2024

**SAMPLING LOCATION :** RTO Stack

**SAMPLING TIME :** 11.05-11.58

**SAMPLING BY :** [REDACTED]

Parameter		Unit	Value	Standard <sup>1/</sup>	Standard <sup>2/</sup>	Analytical Method
NO <sub>x</sub> (as NO <sub>2</sub> )	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	16.15 (8.58)	376 (200)	376 (200)	U.S.EPA Method 7
	at 7 % O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	545.76 (290.02)	-	-	
	Emission Rate	g/sec	0.32363	-	11.17	-
CO	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	3.59 (3.13)	790 (690)	250 (218)	U.S.EPA Method 10
	at 7 % O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	121.11 (105.72)	-	-	
	Emission Rate	g/sec	0.07187	-	7.43	-
Acrylonitrile	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	-	U.S.EPA Method 18
	at 7 % O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	-	
	Emission Rate	g/sec	N.D.	-	-	-
Styrene	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	-	U.S.EPA Method 18
	at 7 % O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	-	
	Emission Rate	g/sec	N.D.	-	-	-
1,3-Butadiene	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	-	U.S.EPA Method 18
	at 7 % O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	-	
	Emission Rate	g/sec	N.D.	-	-	-

**Remarks :** - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.  
 - N.D. = Not Detected; Detection Limit Acrylonitrile <1.78 mg/Nm<sup>3</sup>, <61.87 mg/Nm<sup>3</sup> (<0.03569 g/s), Styrene <0.18 mg/Nm<sup>3</sup>, <6.19 mg/Nm<sup>3</sup> (<0.00357 g/s), 1,3-Butadiene <1.79 mg/Nm<sup>3</sup>, <62.08 mg/Nm<sup>3</sup> (<0.03581 g/s) and Alpha Methyl Styrene <0.89 mg/Nm<sup>3</sup>, <30.94 mg/Nm<sup>3</sup> (<0.01785 g/s) at actual O<sub>2</sub> and at 7% O<sub>2</sub>, respectively.

**Sources :** <sup>1/</sup> Notification of Ministry of Industry B.E.2549 (2006)  
<sup>2/</sup> Emission Air Standard according to EIA study of ABS/SAN Plant, Approval Letter No. Tor Sor 1010.8/8026

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**Report No. : 2024-500001524-2 / 001-1 (Page 3 of 3)**

**Issued date : June 21, 2024**

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## Analysis Report

**SAMPLE DESIGNATED AS :** Emission Air Quality

**SAMPLING DATE :** May 28, 2024

**SAMPLING LOCATION :** RTO Stack

**SAMPLING TIME :** 11.05-11.58

**SAMPLING BY :** [REDACTED]

Parameter		Unit	Value	Standard <sup>1/</sup>	Standard <sup>2/</sup>	Analytical Method
Alpha Methyl Styrene	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	-	Based on NIOSH 1501
	at 7 % O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	-	
	Emission Rate	g/sec	N.D.	-	-	
Total VOCs as C <sub>3</sub> H <sub>8</sub>	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	6.58 (4.47)	-	-	U.S.EPA Method 25
	at 7 % O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	228.71 (155.33)	-	-	
	Emission Rate	g/sec	0.13192	-	-	

**Remarks :** - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.  
 - N.D. = Not Detected; Detection Limit Acrylonitrile <1.78 mg/Nm<sup>3</sup>, <61.87 mg/Nm<sup>3</sup> (<0.03569 g/s), Styrene <0.18 mg/Nm<sup>3</sup>, <6.19 mg/Nm<sup>3</sup> (<0.00357 g/s), 1,3-Butadiene <1.79 mg/Nm<sup>3</sup>, <62.08 mg/Nm<sup>3</sup> (<0.03581 g/s) and Alpha Methyl Styrene <0.89 mg/Nm<sup>3</sup>, <30.94 mg/Nm<sup>3</sup> (<0.01785 g/s) at actual O<sub>2</sub> and at 7% O<sub>2</sub>, respectively.

**Sources :** <sup>1/</sup> Notification of Ministry of Industry B.E.2549 (2006)  
<sup>2/</sup> Emission Air Standard according to EIA study of ABS/SAN Plant, Approval Letter No. Tor Sor 1010.8/8026

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**Report No. : 2024-500001524-2 / 001-2 (Page 1 of 3)** Issued date : June 21, 2024

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## Analysis Report

**SAMPLE DESIGNATED AS :** Emission Air Quality **SAMPLING DATE :** May 28, 2024  
**SAMPLING LOCATION :** Therminol Oil Heater Unit 2/3 of SAN (DN) **SAMPLING TIME :** 14.35-15.13  
 ABS/SAN Plant  
**SAMPLING BY :** [REDACTED]

Parameter	Unit	Value	Standard <sup>1/</sup>	Standard <sup>2/</sup>	Analytical Method
Fuel Type	-	Natural Gas	-	-	-
Stack Diameter	cm	96	-	-	-
Stack Height	m	30.5	-	-	-
Stack Temperature	°C	171.0	-	-	-
Dry Gas Temperature	°C	40.4	-	-	-
Absolute Stack Pressure	mm.Hg	755.7	-	-	-
Air Velocity	m/s	1.99	-	-	U.S.EPA Method 2
Volumetric Flow Rate	Nm <sup>3</sup> /hr	3,091	-	-	U.S.EPA Method 2
Moisture	%	10.68	-	-	U.S.EPA Method 4
O <sub>2</sub>	%	8.40	-	-	U.S.EPA Method 3
CO <sub>2</sub>	%	6.34	-	-	U.S.EPA Method 3
TSP	at actual O <sub>2</sub>	mg/Nm <sup>3</sup>	0.49	-	U.S.EPA Method 5
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup>	0.54	320	
	Emission Rate	g/sec	0.00042	-	-
SO <sub>2</sub>	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	2.36 (0.90)	-	U.S.EPA Method 6
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	2.59 (0.99)	157 (60)	
	Emission Rate	g/sec	0.00202	-	-

**Remarks :** - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.  
**Sources :** 1/ Notification of Ministry of Industry B.E 2549 (2006)  
 2/ Emission Air Standard according to EIA study of ABS/SAN Plant, Approval Letter No. Tor Sor 1010.8/8026.

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**Report No. : 2024-500001524-2 / 001-2 (Page 2 of 3)** Issued date : June 21, 2024

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## Analysis Report

**SAMPLE DESIGNATED AS :** Emission Air Quality **SAMPLING DATE :** May 28, 2024  
**SAMPLING LOCATION :** Therminol Oil Heater Unit 2/3 of SAN (DN) **SAMPLING TIME :** 14.35-15.13  
**ABS/SAN Plant**  
**SAMPLING BY :** [REDACTED]

Parameter		Unit	Value	Standard <sup>1/</sup>	Standard <sup>2/</sup>	Analytical Method
NO <sub>x</sub> (as NO <sub>2</sub> )	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	26.23 (13.94)	-	-	U.S.EPA Method 7
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	28.70 (15.25)	376 (200)	139 (74)	
	Emission Rate	g/sec	0.02252	-	0.170	
CO	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	1.78 (1.55)	-	-	U.S.EPA Method 10
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	1.95 (1.70)	790 (690)	-	
	Emission Rate	g/sec	0.00152	-	-	
Acrylonitrile	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	-	U.S.EPA Method 18
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	15.0	
	Emission Rate	g/sec	N.D.	-	0.018	
Styrene	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	-	U.S.EPA Method 18
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	1.155	
	Emission Rate	g/sec	N.D.	-	0.001	
Alpha Methyl Styrene	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	-	Based on NIOSH 1501
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	32.0	
	Emission Rate	g/sec	N.D.	-	0.039	

**Remarks :** - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.  
- N.D. = Not Detected; Detection Limit Acrylonitrile <1.82 mg/Nm<sup>3</sup>, <2.02 mg/Nm<sup>3</sup> (<0.00156 g/s), Styrene <0.18 mg/Nm<sup>3</sup>, <0.20 mg/Nm<sup>3</sup>, (<0.00016 g/s), Alpha Methyl Styrene <0.91 mg/Nm<sup>3</sup>, <1.01 mg/Nm<sup>3</sup> (<0.00078 g/s) and Ethylbenzene <0.18 mg/Nm<sup>3</sup>, <0.20 mg/Nm<sup>3</sup> (<0.00016 g/s) at actual O<sub>2</sub> and at 7% O<sub>2</sub>, respectively.

**Sources :** <sup>1/</sup> Notification of Ministry of Industry B.E.2549 (2006)  
<sup>2/</sup> Emission Air Standard according to EIA study of ABS/SAN Plant, Approval Letter No. Tor Sor 1010.8/8026.

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**Report No. : 2024-500001524-2 / 001-2 (Page 3 of 3)** Issued date : June 21, 2024

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## Analysis Report

**SAMPLE DESIGNATED AS :** Emission Air Quality **SAMPLING DATE :** May 28, 2024  
**SAMPLING LOCATION :** Therminol Oil Heater Unit 2/3 of SAN (DN) **SAMPLING TIME :** 14.35-15.13  
 ABS/SAN Plant  
**SAMPLING BY :** [REDACTED]

Parameter		Unit	Value	Standard <sup>1/</sup>	Standard <sup>2/</sup>	Analytical Method
Ethylbenzene	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	-	U.S.EPA Method 18
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	5.0	
	Emission Rate	g/sec	N.D.	-	0.006	-
Total VOCs as C <sub>3</sub> H <sub>8</sub>	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	4.93 (3.35)	-	-	U.S.EPA Method 25
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	5.48 (3.72)	-	-	
	Emission Rate	g/sec	0.00424	-	-	-

**Remarks :**

- N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.
- N.D. = Not Detected; Detection Limit Acrylonitrile <1.82 mg/Nm<sup>3</sup>, <2.02 mg/Nm<sup>3</sup> (<0.00156 g/s), Styrene <0.18 mg/Nm<sup>3</sup>, <0.20 mg/Nm<sup>3</sup> (<0.00016 g/s), Alpha Methyl Styrene <0.91 mg/Nm<sup>3</sup>, <1.01 mg/Nm<sup>3</sup> (<0.00078 g/s) and Ethylbenzene <0.18 mg/Nm<sup>3</sup>, <0.20 mg/Nm<sup>3</sup> (<0.00016 g/s) at actual O<sub>2</sub> and at 7% O<sub>2</sub>, respectively.

**Sources :**

- <sup>1/</sup> Notification of Ministry of Industry B.E.2549 (2006)
- <sup>2/</sup> Emission Air Standard according to EIA study of ABS/SAN Plant, Approval Letter No. Tor Sor 1010.8/8026.

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**Report No. : 2024-500000778-2 / 001 (Page 1 of 2)**

**Issued date : June 05, 2024**

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**Tel. :** **Fax. :** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Emission Air Quality  
**SAMPLING LOCATION :** Pyrolysis Oven, ABS/SAN Plant  
**SAMPLING BY :**

**SAMPLING DATE :** April 25, 2024  
**SAMPLING TIME :** 11.40-12.36

Parameter	Unit	Value	Standard <sup>1/</sup>	Standard <sup>2/</sup>	Analytical Method
Fuel Type	-	Natural Gas	-	-	-
Stack Diameter	cm	60	-	-	-
Stack Height	m	30.5	-	-	-
Stack Temperature	°C	266.0	-	-	-
Dry Gas Temperature	°C	37.9	-	-	-
Absolute Stack Pressure	mm.Hg	756.8	-	-	-
Air Velocity	m/s	8.79	-	-	U.S.EPA Method 2
Volumetric Flow Rate	Nm <sup>3</sup> /hr	4,580	-	-	U.S.EPA Method 2
Moisture	%	6.96	-	-	U.S.EPA Method 4
O <sub>2</sub>	%	17.62	-	-	U.S.EPA Method 3
CO <sub>2</sub>	%	1.80	-	-	U.S.EPA Method 3
TSP	at actual O <sub>2</sub>	mg/Nm <sup>3</sup>	2.11	-	-
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup>	8.94	320	5.0
	Emission Rate	g/sec	0.00268	-	0.010
SO <sub>2</sub>	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	3.51 (1.34)	-	-
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	14.86 (5.67)	157 (60)	83.4 (32)
	Emission Rate	g/sec	0.00447	-	0.168
NO <sub>x</sub> (as NO <sub>2</sub> )	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	28.62 (15.21)	-	-
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	121.23 (64.42)	376 (200)	180.8 (96)
	Emission Rate	g/sec	0.03641	-	0.364

**Remarks :** - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.  
**Sources :** <sup>1/</sup> Notification of Ministry of Industry B.E.2549 (2006)  
<sup>2/</sup> Emission Air Standard according to EIA study of ABS/SAN Plant, Approval Letter No. Tor Sor 1010.8/8026.



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E 280340

**Report No. : 2024-500000778-2 / 001 (Page 2 of 2)**

**Issued date : June 05, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** **Fax. :** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Emission Air Quality  
**SAMPLING LOCATION :** Pyrolysis Oven, ABS/SAN Plant  
**SAMPLING BY :**

**SAMPLING DATE :** April 25, 2024  
**SAMPLING TIME :** 11.40-12.36

Parameter		Unit	Value	Standard <sup>1/</sup>	Standard <sup>2/</sup>	Analytical Method
CO	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	144.32 (125.98)	-	-	-
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	611.12 (533.45)	790 (690)	-	U.S.EPA Method 10
	Emission Rate	g/sec	0.18361	-	-	-
Acrylonitrile	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	-	-
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup>	N.D.	-	5.0	U.S.EPA Method 18
	Emission Rate	g/sec	N.D.	-	0.010	-
Styrene	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	-	-
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup>	N.D.	-	20.0	U.S.EPA Method 18
	Emission Rate	g/sec	N.D.	-	0.040	-
1,3-Butadiene	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	-	-
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup>	N.D.	-	-	U.S.EPA Method 18
	Emission Rate	g/sec	N.D.	-	-	-
Ethylbenzene	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	N.D.	-	-	-
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup>	N.D.	-	0.59	U.S.EPA Method 18
	Emission Rate	g/sec	N.D.	-	0.001	-
Total VOCs as C <sub>3</sub> H <sub>8</sub>	at actual O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	20.93 (14.22)	-	-	-
	at 7% O <sub>2</sub>	mg/Nm <sup>3</sup> (ppm)	88.71 (60.25)	-	-	U.S.EPA Method 25
	Emission Rate	g/sec	0.02664	-	-	-

**Remarks :** - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.  
- N.D. = Not Detected; Detection Limit Acrylonitrile <1.81 mg/Nm<sup>3</sup>, <7.69 mg/Nm<sup>3</sup> (<0.00231 g/s), Styrene <0.18 mg/Nm<sup>3</sup>, <0.77 mg/Nm<sup>3</sup> (<0.00023 g/s), 1,3-Butadiene <1.81 mg/Nm<sup>3</sup>, <7.69 mg/Nm<sup>3</sup> (<0.00231 g/s) and Ethylbenzene <0.18 mg/Nm<sup>3</sup>, <0.77 mg/Nm<sup>3</sup> (<0.00023 g/s) at actual O<sub>2</sub> and at 7% O<sub>2</sub>, respectively

**Sources :** <sup>1/</sup> Notification of Ministry of Industry B.E.2549 (2006)  
<sup>2/</sup> Emission Air Standard according to EIA study of ABS/SAN Plant, Approval Letter No. Tor Sor 1010.8/8026.

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E 280341

คุณภาพอากาศในบรรยากาศ

**Report No. : 2024-500001524-2 / 002-1 (Page 2 of 2)** Issued date : June 17, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. [REDACTED] Fax. [REDACTED] E-mail: E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality  
**MEASUREMENT LOCATION :** Ban Aow Pradoo  
**MEASUREMENT DATE :** May 28-June 4, 2024  
**MEASURED BY :** [REDACTED]

Time	SO <sub>2</sub> Concentration (mg/m <sup>3</sup> )						
	May 28-29,2024	May 29-30,2024	May 30-31,2024	May 31- June 1,2024	June 1-2,2024	June 2-3,2024	June 3-4,2024
12:00-13:00	0.005	0.005	0.005	0.004	0.004	0.004	0.005
13:00-14:00	0.005	0.004	0.005	0.005	0.004	0.001	0.005
14:00-15:00	0.004	0.005	0.004	0.005	0.005	0.001	0.007
15:00-16:00	0.005	0.005	0.005	0.004	0.004	0.004	0.007
16:00-17:00	0.004	0.004	0.004	0.005	0.004	0.004	0.007
17:00-18:00	0.006	0.005	0.004	0.005	0.004	0.005	0.006
18:00-19:00	0.005	0.005	0.005	0.004	0.004	0.006	0.006
19:00-20:00	0.003	0.006	0.005	0.005	0.004	0.006	0.006
20:00-21:00	0.002	0.004	0.005	0.006	0.004	0.003	0.006
21:00-22:00	0.005	0.004	0.006	0.005	0.004	0.003	0.007
22:00-23:00	0.003	0.005	0.004	0.007	0.005	0.001	0.006
23:00-00:00	0.004	0.005	0.005	0.006	0.004	0.002	0.006
00:00-01:00	0.005	0.005	0.005	0.005	0.004	0.004	0.007
01:00-02:00	0.004	0.006	0.006	0.005	0.004	0.002	0.006
02:00-03:00	0.004	0.007	0.005	0.004	0.005	0.003	0.006
03:00-04:00	0.005	0.005	0.007	0.005	0.005	0.003	0.006
04:00-05:00	0.006	0.004	0.006	0.004	0.005	0.004	0.007
05:00-06:00	0.006	0.005	0.005	0.005	0.005	0.003	0.007
06:00-07:00	0.007	0.006	0.007	0.005	0.004	0.004	0.007
07:00-08:00	0.006	0.007	0.006	0.005	0.003	0.005	0.006
08:00-09:00	0.007	0.006	0.005	0.005	0.002	0.004	0.006
09:00-10:00	0.006	0.005	0.005	0.007	0.007	0.003	0.006
10:00-11:00	0.006	0.005	0.005	0.005	0.005	0.008	0.007
11:00-12:00	0.006	0.007	0.005	0.005	0.003	0.004	0.007
<b>1 hr-Minimum</b>	<b>0.002</b>	<b>0.004</b>	<b>0.004</b>	<b>0.004</b>	<b>0.002</b>	<b>0.001</b>	<b>0.005</b>
<b>1 hr-Maximum</b>	<b>0.007</b>	<b>0.007</b>	<b>0.007</b>	<b>0.007</b>	<b>0.007</b>	<b>0.008</b>	<b>0.007</b>
<b>Avg. 24 hr</b>	<b>0.005</b>	<b>0.005</b>	<b>0.005</b>	<b>0.005</b>	<b>0.004</b>	<b>0.004</b>	<b>0.006</b>
<b>Standard* (avg. 1 hr)</b>	<b>0.78</b>						
<b>Standard** (avg. 24 hr)</b>	<b>0.30</b>						

**Analytical Method :** - UV Fluorescence Method

**Sources :** \* Notification of the National Environment Board No.21, B.E. 2544 (2001), dated April 9, B.E. 2544 (2001)  
 \*\* Notification of the National Environment Board No.24, B.E. 2547 (2004), dated August 9, B.E. 2547 (2004)

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E 282057

**Report No. : 2024-500001524-2 / 002-1 (Page 1 of 2)** Issued date : June 17, 2024

**CLIENT :** INFOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. [REDACTED] Fax. [REDACTED] E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality  
**MEASUREMENT DATE :** May 28-June 4, 2024  
**MEASUREMENT LOCATION :** Ban Aow Pradoo  
**MEASURED BY :** [REDACTED]

Time	NO <sub>2</sub> Concentration (mg/m <sup>3</sup> )						
	May 28-29,2024	May 29-30,2024	May 30-31,2024	May 31- June 1,2024	June 1-2,2024	June 2-3,2024	June 3-4,2024
12:00-13:00	0.016	0.011	0.016	0.016	0.008	0.009	0.017
13:00-14:00	0.018	0.010	0.014	0.017	0.007	0.014	0.016
14:00-15:00	0.016	0.009	0.010	0.012	0.006	0.018	0.017
15:00-16:00	0.017	0.008	0.007	0.010	0.006	0.021	0.015
16:00-17:00	0.019	0.009	0.007	0.009	0.006	0.023	0.014
17:00-18:00	0.011	0.010	0.009	0.008	0.007	0.023	0.014
18:00-19:00	0.009	0.007	0.020	0.008	0.009	0.024	0.016
19:00-20:00	0.007	0.009	0.016	0.025	0.007	0.023	0.015
20:00-21:00	0.007	0.009	0.018	0.023	0.006	0.026	0.015
21:00-22:00	0.006	0.010	0.016	0.017	0.009	0.027	0.014
22:00-23:00	0.006	0.010	0.020	0.010	0.009	0.023	0.014
23:00-00:00	0.010	0.008	0.017	0.011	0.007	0.020	0.012
00:00-01:00	0.008	0.007	0.011	0.010	0.010	0.020	0.011
01:00-02:00	0.013	0.009	0.010	0.007	0.027	0.023	0.012
02:00-03:00	0.022	0.009	0.016	0.006	0.026	0.023	0.013
03:00-04:00	0.014	0.016	0.023	0.009	0.034	0.028	0.014
04:00-05:00	0.014	0.014	0.014	0.009	0.028	0.017	0.015
05:00-06:00	0.018	0.012	0.015	0.006	0.021	0.017	0.016
06:00-07:00	0.017	0.018	0.013	0.007	0.021	0.033	0.019
07:00-08:00	0.015	0.025	0.011	0.006	0.024	0.035	0.018
08:00-09:00	0.014	0.022	0.011	0.007	0.024	0.039	0.011
09:00-10:00	0.020	0.020	0.009	0.007	0.017	0.019	0.018
10:00-11:00	0.022	0.021	0.010	0.009	0.019	0.020	0.017
11:00-12:00	0.020	0.018	0.012	0.007	0.011	0.020	0.017
<b>1 hr-Minimum</b>	<b>0.006</b>	<b>0.007</b>	<b>0.007</b>	<b>0.006</b>	<b>0.006</b>	<b>0.009</b>	<b>0.011</b>
<b>1 hr-Maximum</b>	<b>0.022</b>	<b>0.025</b>	<b>0.023</b>	<b>0.025</b>	<b>0.034</b>	<b>0.039</b>	<b>0.019</b>
<b>Standard* (avg. 1 hr)</b>	<b>0.32</b>						

**Analytical Method :** - Chemiluminescence Method

**Source :** \* Notification of the National Environment Board No.33, B.E. 2552 (2009), dated June 17, B.E. 2552 (2009)

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E 282056

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**Report No. : 2024-500001524-2 / 002-2 (Page 2 of 2)** Issued date : June 17, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality **MEASUREMENT DATE :** May 28-June 4, 2024  
**MEASUREMENT LOCATION :** New CO Plant of BTC **MEASURED BY :** [REDACTED]

Time	SO <sub>2</sub> Concentration (mg/m <sup>3</sup> )						
	May 28-29,2024	May 29-30,2024	May 30-31,2024	May 31- June 1,2024	June 1-2,2024	June 2-3,2024	June 3-4,2024
11:00-12:00	0.005	0.005	0.004	0.004	0.004	0.004	0.005
12:00-13:00	0.005	0.005	0.004	0.004	0.004	0.003	0.006
13:00-14:00	0.007	0.003	0.004	0.004	0.004	0.004	0.004
14:00-15:00	0.008	0.004	0.004	0.004	0.004	0.004	0.004
15:00-16:00	0.005	0.004	0.004	0.004	0.004	0.003	0.004
16:00-17:00	0.005	0.004	0.005	0.005	0.004	0.004	0.004
17:00-18:00	0.004	0.004	0.004	0.004	0.004	0.004	0.004
18:00-19:00	0.004	0.004	0.004	0.004	0.004	0.005	0.004
19:00-20:00	0.004	0.003	0.004	0.004	0.004	0.004	0.004
20:00-21:00	0.004	0.004	0.004	0.005	0.004	0.004	0.003
21:00-22:00	0.004	0.004	0.004	0.005	0.004	0.004	0.004
22:00-23:00	0.004	0.004	0.004	0.007	0.004	0.004	0.004
23:00-00:00	0.004	0.004	0.004	0.008	0.004	0.004	0.004
00:00-01:00	0.005	0.004	0.007	0.005	0.003	0.004	0.004
01:00-02:00	0.004	0.004	0.007	0.004	0.004	0.004	0.004
02:00-03:00	0.004	0.004	0.007	0.004	0.004	0.006	0.004
03:00-04:00	0.005	0.004	0.007	0.004	0.004	0.005	0.004
04:00-05:00	0.010	0.004	0.004	0.004	0.004	0.004	0.004
05:00-06:00	0.009	0.008	0.004	0.004	0.006	0.004	0.013
06:00-07:00	0.006	0.008	0.006	0.004	0.005	0.004	0.008
07:00-08:00	0.007	0.005	0.005	0.004	0.003	0.004	0.004
08:00-09:00	0.006	0.004	0.005	0.004	0.003	0.004	0.004
09:00-10:00	0.005	0.004	0.004	0.004	0.004	0.004	0.004
10:00-11:00	0.004	0.004	0.004	0.004	0.004	0.004	0.004
1 hr-Minimum	0.004	0.003	0.004	0.004	0.003	0.003	0.003
1 hr-Maximum	0.010	0.008	0.007	0.008	0.006	0.006	0.013
Avg. 24 hr	0.005	0.005	0.005	0.004	0.004	0.004	0.005
Standard* (avg. 1 hr)	0.78						
Standard** (avg. 24 hr)	0.30						

**Analytical Method :** - UV Fluorescence Method

**Sources :** \* Notification of the National Environment Board No.21, B.E. 2544 (2001), dated April 9, B.E. 2544 (2001)  
 \*\* Notification of the National Environment Board No.24, B.E. 2547 (2004), dated August 9 B.E. 2547 (2004)

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E 282059

**Report No. : 2024-500001524-2 / 002-2 (Page 1 of 2)** Issued date : June 17, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality **MEASUREMENT DATE :** May 28-June 4, 2024  
**MEASUREMENT LOCATION :** New CO Plant of BTC **MEASURED BY :**

Time	NO <sub>2</sub> Concentration (mg/m <sup>3</sup> )						
	May 28-29,2024	May 29-30,2024	May 30-31,2024	May 31- June 1,2024	June 1-2,2024	June 2-3,2024	June 3-4,2024
11:00-12:00	0.014	0.006	0.009	0.018	0.014	0.020	0.022
12:00-13:00	0.011	0.006	0.010	0.019	0.014	0.020	0.025
13:00-14:00	0.013	0.007	0.010	0.017	0.016	0.022	0.031
14:00-15:00	0.015	0.005	0.009	0.018	0.014	0.017	0.018
15:00-16:00	0.015	0.006	0.009	0.015	0.015	0.015	0.013
16:00-17:00	0.013	0.009	0.013	0.017	0.013	0.019	0.020
17:00-18:00	0.015	0.011	0.014	0.015	0.012	0.023	0.025
18:00-19:00	0.015	0.009	0.014	0.014	0.015	0.020	0.016
19:00-20:00	0.013	0.009	0.013	0.014	0.013	0.025	0.015
20:00-21:00	0.010	0.006	0.011	0.013	0.017	0.022	0.012
21:00-22:00	0.008	0.008	0.012	0.013	0.018	0.018	0.012
22:00-23:00	0.006	0.004	0.012	0.012	0.015	0.017	0.009
23:00-00:00	0.006	0.006	0.007	0.013	0.012	0.019	0.012
00:00-01:00	0.006	0.006	0.008	0.009	0.012	0.021	0.009
01:00-02:00	0.006	0.004	0.008	0.008	0.011	0.020	0.012
02:00-03:00	0.006	0.005	0.009	0.008	0.013	0.016	0.008
03:00-04:00	0.007	0.004	0.012	0.009	0.011	0.022	0.011
04:00-05:00	0.006	0.005	0.009	0.010	0.012	0.023	0.013
05:00-06:00	0.006	0.007	0.012	0.014	0.014	0.026	0.017
06:00-07:00	0.009	0.009	0.012	0.015	0.016	0.029	0.021
07:00-08:00	0.008	0.020	0.011	0.017	0.016	0.023	0.014
08:00-09:00	0.007	0.022	0.013	0.015	0.014	0.016	0.016
09:00-10:00	0.007	0.017	0.013	0.012	0.018	0.016	0.016
10:00-11:00	0.007	0.019	0.011	0.013	0.021	0.020	0.014
1 hr-Minimum	0.006	0.004	0.007	0.008	0.011	0.015	0.008
1 hr-Maximum	0.015	0.022	0.014	0.019	0.021	0.029	0.031
Standard* (avg. 1 hr)	0.32						

**Analytical Method :** - Chemiluminescence Method

**Source :** \* Notification of the National Environment Board No.33, B.E. 2552 (2009), dated June 17, B.E. 2552 (2009)

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E 282058

**Report No. : 2024-500001524-2 / 002-3 (Page 2 of 2)** Issued date : June 17, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality **MEASUREMENT DATE :** May 28-June 4, 2024  
**MEASUREMENT LOCATION :** In front of Siam Yamato Steel **MEASURED BY :**

Time	SO <sub>2</sub> Concentration (mg/m <sup>3</sup> )						
	May 28-29,2024	May 29-30,2024	May 30-31,2024	May 31- June 1,2024	June 1-2,2024	June 2-3,2024	June 3-4,2024
10:00-11:00	0.004	0.012	0.017	0.007	0.005	0.005	0.010
11:00-12:00	0.004	0.012	0.028	0.007	0.008	0.008	0.016
12:00-13:00	0.001	0.017	0.022	0.009	0.013	0.008	0.010
13:00-14:00	0.001	0.007	0.014	0.009	0.024	0.005	0.008
14:00-15:00	0.001	0.009	0.014	0.009	0.031	0.008	0.005
15:00-16:00	0.007	0.012	0.012	0.009	0.024	0.008	0.005
16:00-17:00	0.001	0.004	0.009	0.009	0.018	0.008	0.005
17:00-18:00	0.001	0.007	0.009	0.007	0.013	0.005	0.005
18:00-19:00	0.009	0.009	0.009	0.007	0.010	0.005	0.003
19:00-20:00	0.004	0.017	0.014	0.007	0.008	0.005	0.003
20:00-21:00	0.007	0.017	0.009	0.004	0.005	0.005	0.003
21:00-22:00	0.004	0.014	0.007	0.004	0.005	0.003	0.005
22:00-23:00	0.012	0.012	0.007	0.004	0.005	0.003	0.005
23:00-00:00	0.007	0.014	0.007	0.004	0.005	0.005	0.003
00:00-01:00	0.004	0.012	0.009	0.001	0.003	0.003	0.005
01:00-02:00	0.020	0.014	0.012	0.001	0.005	0.005	0.008
02:00-03:00	0.007	0.012	0.009	0.004	0.005	0.003	0.010
03:00-04:00	0.017	0.009	0.007	0.009	0.005	0.003	0.010
04:00-05:00	0.020	0.007	0.004	0.004	0.005	0.008	0.008
05:00-06:00	0.017	0.007	0.004	0.004	0.005	0.005	0.013
06:00-07:00	0.017	0.009	0.004	0.005	0.005	0.003	0.013
07:00-08:00	0.014	0.009	0.004	0.005	0.003	0.003	0.010
08:00-09:00	0.012	0.009	0.004	0.005	0.005	0.003	0.008
09:00-10:00	0.014	0.012	0.004	0.005	0.005	0.005	0.005
1 hr-Minimum	0.001	0.004	0.004	0.001	0.003	0.003	0.003
1 hr-Maximum	0.020	0.017	0.028	0.009	0.031	0.008	0.016
Avg. 24 hr	0.009	0.011	0.010	0.006	0.009	0.005	0.007
Standard* (avg. 1 hr)	0.78						
Standard** (avg. 24 hr)	0.30						

**Analytical Method :** - UV Fluorescence Method

**Sources :** \* Notification of the National Environment Board No.21, B.E. 2544 (2001), dated April 9, B.E. 2544 (2001)  
 \*\* Notification of the National Environment Board No.24, B.E. 2547 (2004), dated August 9 B.E. 2547 (2004)

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Member of the SGS Group

**Report No. : 2024-500001524-2 / 002-3 (Page 1 of 2)** Issued date : June 17, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality **MEASUREMENT DATE :** May 28-June 4, 2024  
**MEASUREMENT LOCATION :** In front of Siam Yamato Steel **MEASURED BY :**

Time	NO <sub>2</sub> Concentration (mg/m <sup>3</sup> )						
	May 28-29,2024	May 29-30,2024	May 30-31,2024	May 31- June 1,2024	June 1-2,2024	June 2-3,2024	June 3-4,2024
10:00-11:00	0.015	0.022	0.016	0.014	0.015	0.021	0.026
11:00-12:00	0.019	0.023	0.020	0.018	0.014	0.013	0.025
12:00-13:00	0.008	0.013	0.019	0.018	0.011	0.013	0.015
13:00-14:00	0.008	0.012	0.012	0.011	0.009	0.009	0.006
14:00-15:00	0.008	0.014	0.013	0.012	0.012	0.008	0.007
15:00-16:00	0.007	0.014	0.012	0.009	0.020	0.009	0.005
16:00-17:00	0.012	0.012	0.013	0.008	0.014	0.009	0.006
17:00-18:00	0.017	0.017	0.014	0.013	0.009	0.013	0.009
18:00-19:00	0.008	0.015	0.025	0.015	0.010	0.010	0.015
19:00-20:00	0.011	0.012	0.023	0.027	0.007	0.009	0.015
20:00-21:00	0.008	0.012	0.026	0.031	0.013	0.017	0.012
21:00-22:00	0.009	0.013	0.025	0.025	0.006	0.024	0.006
22:00-23:00	0.017	0.021	0.025	0.015	0.006	0.017	0.006
23:00-00:00	0.013	0.017	0.020	0.016	0.006	0.010	0.006
00:00-01:00	0.011	0.022	0.009	0.015	0.009	0.019	0.015
01:00-02:00	0.023	0.028	0.012	0.014	0.013	0.015	0.015
02:00-03:00	0.033	0.023	0.018	0.017	0.016	0.021	0.017
03:00-04:00	0.020	0.026	0.014	0.022	0.026	0.022	0.017
04:00-05:00	0.013	0.016	0.012	0.014	0.024	0.008	0.019
05:00-06:00	0.022	0.010	0.013	0.013	0.017	0.015	0.024
06:00-07:00	0.024	0.022	0.011	0.010	0.025	0.026	0.026
07:00-08:00	0.021	0.024	0.006	0.008	0.025	0.027	0.030
08:00-09:00	0.018	0.021	0.016	0.016	0.021	0.021	0.028
09:00-10:00	0.020	0.019	0.016	0.015	0.016	0.017	0.025
<b>1 hr-Minimum</b>	<b>0.007</b>	<b>0.010</b>	<b>0.006</b>	<b>0.008</b>	<b>0.006</b>	<b>0.008</b>	<b>0.005</b>
<b>1 hr-Maximum</b>	<b>0.033</b>	<b>0.028</b>	<b>0.026</b>	<b>0.031</b>	<b>0.026</b>	<b>0.027</b>	<b>0.030</b>
<b>Standard* (avg. 1 hr)</b>	<b>0.32</b>						

**Analytical Method :** - Chemiluminescence Method

**Source :** \* Notification of the National Environment Board No.33, B.E. 2552 (2009), dated June 17, B.E. 2552 (2009)

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E 282060

**Report No. : 2024-500001524-2 / 002-5 (Page 1 of 3)**

**Issued date : June 17, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel.** **Fax.** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** Ban Aow Pradoo

**MEASUREMENT DATE :** May 28-June 4, 2024  
**MEASURED BY :**

TIME	May 28-29, 2024		May 29-30, 2024		May 30-31, 2024		May 31-June 1, 2024		June 1-2, 2024		June 2-3, 2024		June 3-4, 2024	
	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)
12:00-13:00	SSW	2.2	SW	1.3	W	1.8	W	2.7	SW	2.2	WSW	1.8	W	1.8
13:00-14:00	SW	2.2	SSW	1.3	SW	1.8	WSW	2.2	WSW	2.2	SW	1.3	SW	1.8
14:00-15:00	SSW	2.2	SW	2.2	SW	2.2	SW	2.2	WSW	2.2	W	1.8	SW	1.3
15:00-16:00	SSW	2.2	S	1.8	SW	2.2	SW	2.2	SW	1.8	W	1.3	SW	1.8
16:00-17:00	S	2.2	SSW	2.2	SW	1.8	WSW	2.2	SW	1.8	WNW	2.2	WSW	1.8
17:00-18:00	SSW	2.2	S	1.8	W	1.8	SW	2.2	S	1.8	WNW	1.3	SW	1.8
18:00-19:00	S	2.2	S	1.3	W	2.2	SW	2.2	S	1.8	WNW	1.3	WSW	1.3
19:00-20:00	S	1.8	S	1.3	WSW	1.3	WNW	2.7	S	1.8	W	0.9	W	1.3
20:00-21:00	S	1.8	S	0.9	WSW	1.8	WNW	3.1	S	1.3	WNW	2.2	SW	0.9
21:00-22:00	S	1.8	S	0.9	W	2.2	WNW	2.7	S	1.3	W	1.3	-	CALM
22:00-23:00	SSW	1.8	S	1.3	W	2.7	WNW	3.1	S	1.3	WNW	0.9	-	CALM
23:00-00:00	WSW	2.2	S	1.3	W	3.1	WNW	1.3	SSW	1.3	NW	0.9	-	CALM
00:00-01:00	SW	1.8	WSW	1.3	WNW	3.1	E	1.8	WSW	1.3	W	0.9	-	CALM
01:00-02:00	SW	1.8	SW	1.8	WNW	3.1	ESE	2.7	W	2.2	WNW	2.7	WSW	0.9
02:00-03:00	SW	1.8	W	1.3	WNW	3.1	S	1.8	W	1.8	WNW	2.2	W	0.9
03:00-04:00	SSW	1.8	W	1.8	W	1.8	S	1.3	W	2.7	W	1.3	W	1.8
04:00-05:00	SW	1.8	WNW	2.7	W	1.8	S	1.3	WNW	2.7	S	1.8	WNW	3.1
05:00-06:00	SW	2.2	WNW	2.7	WNW	2.2	S	1.8	WNW	2.2	W	1.3	W	2.7
06:00-07:00	SSW	2.2	W	2.7	S	1.8	S	1.8	WNW	2.2	WNW	2.7	W	1.3
07:00-08:00	SW	1.8	W	2.7	S	1.3	S	2.7	W	1.3	W	1.3	W	1.3
08:00-09:00	WSW	1.3	W	2.2	SW	0.9	SW	2.2	W	1.8	W	2.2	WNW	1.3
09:00-10:00	SW	1.8	W	1.8	SW	1.8	SSW	2.2	W	1.8	WNW	2.7	WNW	2.7
10:00-11:00	SSW	1.8	W	2.7	SW	2.2	S	1.8	W	1.8	W	2.7	W	2.7
11:00-12:00	SW	1.8	W	2.7	SW	2.2	SW	2.2	SSW	1.8	W	2.2	W	2.7

**Measurement Method :** - Wind speed and direction recording meter

**Remarks :** - WS = Wind Speed  
 - WD = Wind Direction

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E 282064

**Report No. : 2024-500001524-2 / 002-5 (Page 2 of 3)**

**Issued date : June 17, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel.**

**Fax.**

**E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS : Wind Speed and Direction**

**MEASUREMENT LOCATION : Ban Aow Pradoo**

**MEASUREMENT DATE : May 28-June 4, 2024**

**MEASURED BY :**

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	0.60	-	-	-
ESE	-	-	0.60	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	1.19	14.29	1.79	-	-
SSW	-	3.57	4.17	-	-
SW	1.19	11.31	8.33	-	-
WSW	0.60	4.76	2.98	-	-
W	1.79	13.69	10.12	0.60	-
WNW	0.60	2.38	8.93	3.57	-
NW	0.60	-	-	-	-
NNW	-	-	-	-	-
<b>CALM</b>	<b>2.38</b>				

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**Report No. : 2024-500001524-2 / 002-5 (Page 3 of 3)**

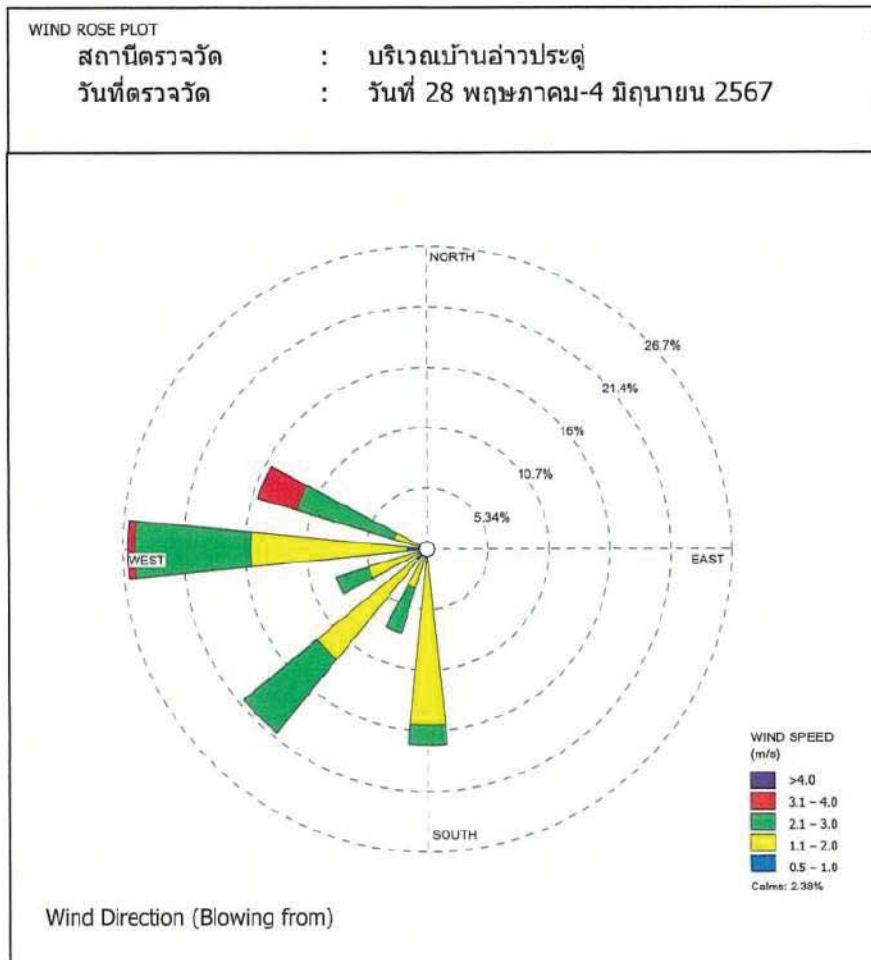
**Issued date : June 17, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** Ban Aow Pradoo

**MEASUREMENT DATE :** May 28-June 4, 2024  
**MEASURED BY :** [REDACTED]



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E 282066

**Report No. : 2024-500001524-2 / 002-6 (Page 1 of 3)**

**Issued date :** June 17, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.

**CONTACT :**

**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate. T. Map Ta Phut, A. Muang, Rayong 21150

**Tel.**

**Fax.**

**E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction

**MEASUREMENT DATE :** May 28-June 4, 2024

**MEASUREMENT LOCATION :** New CO Plant of BTC

**MEASURED BY :**

TIME	May 28-29,2024		May 29-30,2024		May 30-31,2024		May 31-June 1,2024		June 1-2,2024		June 2-3,2024		June 3-4,2024	
	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)
11:00-12:00	SW	2.2	SW	1.3	SSW	1.3	SW	2.7	SW	2.2	SW	2.2	SW	0.9
12:00-13:00	SSW	2.2	SW	1.3	SSW	1.8	SW	1.8	SSW	2.2	SSW	1.3	SSW	1.3
13:00-14:00	SW	2.2	SSW	0.9	SSW	2.2	SW	1.8	SW	2.7	SW	1.8	SSW	1.3
14:00-15:00	SSW	2.2	SW	1.8	SW	2.2	SW	2.2	SSW	2.2	SW	0.9	SW	1.3
15:00-16:00	SW	1.8	SSW	1.3	SSW	2.2	SW	1.8	SSW	1.8	SW	0.9	SSW	1.3
16:00-17:00	S	1.8	S	1.8	SW	1.8	SW	2.2	SW	1.8	SW	0.9	SSW	2.2
17:00-18:00	S	1.8	S	1.8	SW	1.8	SW	2.2	SW	1.8	SW	0.9	SSW	2.2
18:00-19:00	S	1.8	S	1.3	SW	1.8	SSW	2.2	SW	1.3	SSW	1.3	SW	1.3
19:00-20:00	S	1.3	SSW	1.3	SSW	1.8	SW	0.9	SSW	1.3	SW	0.9	SW	0.9
20:00-21:00	S	1.3	SSW	0.9	SW	1.3	SW	0.9	SSW	1.3	SW	0.9	SW	0.9
21:00-22:00	S	1.3	SSW	0.9	SW	1.8	SW	1.3	SSW	1.3	SW	0.9	SSW	0.9
22:00-23:00	S	1.3	SW	1.3	SW	1.3	SW	1.3	SSW	1.3	SW	0.9	-	CALM
23:00-00:00	SSW	1.8	SW	1.8	SW	1.3	-	CALM	SW	1.3	-	CALM	-	CALM
00:00-01:00	SW	1.3	SSW	1.3	SW	1.3	NNE	0.9	SW	1.3	SSW	0.9	SW	0.9
01:00-02:00	SSW	1.3	SSW	2.2	SW	1.3	S	1.8	SW	1.3	SW	1.3	SSW	1.3
02:00-03:00	SW	1.3	SSW	1.3	SW	0.9	SSW	1.8	SW	0.9	SW	0.9	SW	0.9
03:00-04:00	SW	1.3	SW	0.9	SSW	1.8	SSW	1.8	SSW	1.3	SSW	1.3	-	CALM
04:00-05:00	SW	1.3	SW	1.3	SSW	1.3	S	1.3	SW	1.3	SW	1.3	-	CALM
05:00-06:00	SW	0.9	SW	1.8	SW	0.9	S	1.3	SW	0.9	SSW	1.3	SSW	0.9
06:00-07:00	SSW	1.3	SW	0.9	SW	1.3	S	2.2	-	CALM	SW	0.9	SW	0.9
07:00-08:00	SSW	0.9	SW	1.3	SW	0.9	S	2.2	SSW	0.9	SW	0.9	SSW	1.3
08:00-09:00	SSW	0.9	SW	1.3	SSW	1.3	SSW	2.2	SW	1.3	SW	0.9	SW	0.9
09:00-10:00	SSW	1.3	SW	1.3	SW	1.8	S	2.2	SW	1.3	SSW	0.9	SW	0.9
10:00-11:00	SSW	1.3	SW	1.3	SSW	2.2	SSW	1.8	SW	1.3	SW	0.9	SW	1.3

**Measurement Method :** - Wind speed and direction recording meter

**Remarks :** - WS = Wind Speed  
- WD = Wind Direction

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E 282067

SGS (Thailand) Limited

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**Report No. : 2024-500001524-2 / 002-6 (Page 2 of 3)**

**Issued date : June 17, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel.** **Fax.** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** New CO Plant of BTC

**MEASUREMENT DATE :** May 28-June 4, 2024  
**MEASURED BY :**

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	0.60	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	7.74	1.79	-	-
SSW	5.95	19.64	7.14	-	-
SW	18.45	28.57	5.95	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	0.60	0.60	-	-
CALM	4.17				

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E 282068

**Report No. : 2024-500001524-2 / 002-6 (Page 3 of 3)**

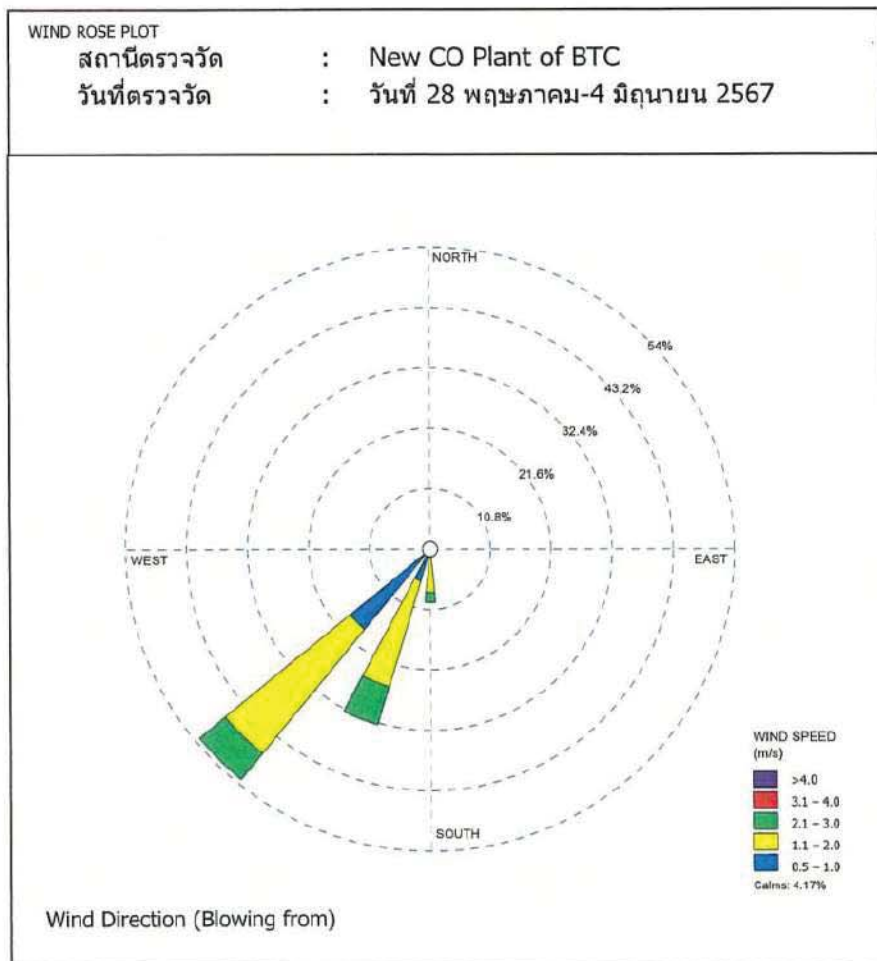
**Issued date : June 17, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** New CO Plant of BTC

**MEASUREMENT DATE :** May 28-June 4, 2024  
**MEASURED BY :** [REDACTED]



TY/RS/SV/SV

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E 282069

**Report No. : 2024-500001524-2 / 002-7 (Page 1 of 3)**

**Issued date : June 17, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate. T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel.** **Fax.** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** Siam Yamato Steel Plant

**MEASUREMENT DATE :** May 28-June 4, 2024  
**MEASURED BY :**

TIME	May 28-29, 2024		May 29-30, 2024		May 30-31, 2024		May 31-June 1, 2024		June 1-2, 2024		June 2-3, 2024		June 3-4, 2024	
	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)
10:00-11:00	WSW	2.2	WSW	2.2	W	3.6	SW	2.2	WSW	3.1	WSW	3.6	WSW	3.1
11:00-12:00	WSW	2.7	WSW	2.2	W	3.6	SW	2.2	SW	3.1	SW	2.7	WSW	3.1
12:00-13:00	WSW	2.7	WSW	2.2	WSW	3.6	WSW	3.1	SW	3.6	WSW	2.7	WSW	2.7
13:00-14:00	SW	3.1	WSW	2.2	WSW	2.7	WSW	3.6	WSW	3.1	WSW	2.7	SW	2.7
14:00-15:00	SW	2.7	SW	2.7	WSW	3.1	WSW	2.7	SW	3.6	WSW	2.2	SW	3.1
15:00-16:00	SW	2.7	WSW	2.7	WSW	2.7	WSW	3.1	WSW	3.1	WSW	2.7	SW	3.1
16:00-17:00	SSW	2.7	WSW	3.1	W	3.1	WSW	3.1	WSW	3.1	WSW	2.7	WSW	3.1
17:00-18:00	WSW	2.7	WSW	2.7	W	3.1	WSW	3.6	WSW	3.1	SW	2.7	WSW	2.7
18:00-19:00	WSW	2.2	WSW	2.7	W	4.0	WSW	3.6	SW	3.1	WSW	2.2	WSW	2.7
19:00-20:00	SSW	2.2	WSW	2.7	WSW	2.7	WSW	3.6	SW	3.1	WSW	2.7	WSW	2.7
20:00-21:00	WSW	2.2	W	2.7	WSW	4.0	WSW	3.1	SSW	2.7	WSW	2.2	WSW	2.7
21:00-22:00	WSW	2.2	W	2.7	WSW	4.9	W	2.2	SW	3.1	WSW	2.7	SW	3.1
22:00-23:00	SSW	2.2	WSW	3.1	WSW	3.6	W	2.2	SW	3.1	W	1.8	SW	2.7
23:00-00:00	SSW	2.2	WSW	2.7	W	2.7	WSW	0.9	SW	2.7	WSW	2.2	WSW	2.7
00:00-01:00	SW	2.2	WSW	2.7	W	1.8	NE	1.3	WSW	3.6	WSW	2.7	WSW	2.7
01:00-02:00	WSW	2.2	WSW	3.1	W	1.8	E	2.7	WSW	4.5	W	1.8	WSW	2.7
02:00-03:00	WSW	2.2	WSW	2.7	W	2.7	WSW	2.2	WSW	4.0	WSW	2.2	WSW	2.7
03:00-04:00	WSW	2.2	W	2.7	WSW	3.6	WSW	2.7	WSW	3.6	WSW	2.7	WSW	2.2
04:00-05:00	WSW	2.2	W	1.8	WSW	2.7	SW	2.2	W	1.8	WSW	2.7	W	1.8
05:00-06:00	WSW	2.7	W	1.8	W	2.2	SW	1.8	WSW	1.3	WSW	2.7	WSW	1.8
06:00-07:00	WSW	2.2	WSW	2.7	WSW	3.1	SW	2.7	WSW	2.2	WSW	3.1	WSW	2.7
07:00-08:00	WSW	2.2	WSW	3.1	WSW	2.7	SSE	1.8	WSW	3.1	WSW	3.6	WSW	2.7
08:00-09:00	WSW	1.8	WSW	3.1	WSW	2.7	WSW	3.6	WSW	3.1	WSW	3.1	WSW	3.1
09:00-10:00	WSW	2.2	WSW	3.6	SW	2.7	WSW	2.7	WSW	3.6	WSW	3.6	WSW	3.1

**Measurement Method :** - Wind speed and direction recording meter

**Remarks :**  
 - WS = Wind Speed  
 - WD = Wind Direction

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E 282070

**Report No. : 2024-500001524-2 / 002-7 (Page 2 of 3)**

**Issued date : June 17, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel.**

**Fax.**

**E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS : Wind Speed and Direction**

**MEASUREMENT LOCATION : Siam Yamato Steel Plant**

**MEASUREMENT DATE : May 28-June 4, 2024**

**MEASURED BY :**

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	0.60	-	-	-
ENE	-	-	-	-	-
E	-	-	0.60	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	0.60	-	-	-
S	-	-	-	-	-
SSW	-	-	2.98	-	-
SW	-	0.60	8.33	6.55	-
WSW	0.60	1.79	38.69	25.00	1.19
W	-	4.76	4.76	2.98	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
<b>CALM</b>	<b>0.00</b>				

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E 282071

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**Report No. : 2024-500001524-2 / 002-7 (Page 3 of 3)**

**Issued date :** June 17, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
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**Tel.** **Fax.** **E-mail**

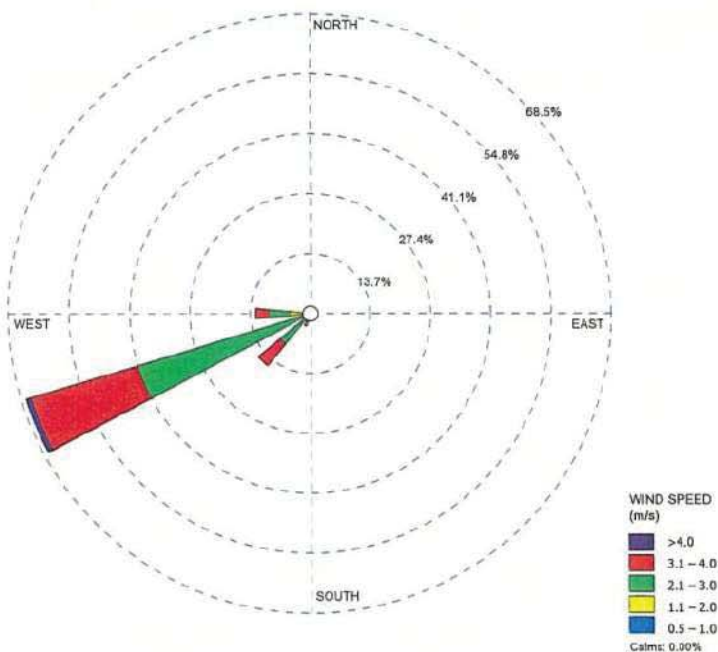
## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** Siam Yamato Steel Plant

**MEASUREMENT DATE :** May 28-June 4, 2024  
**MEASURED BY :**

WIND ROSE PLOT

**สถานที่ตรวจวัด :** Siam Yamato Steel Plant  
**วันที่ตรวจวัด :** วันที่ 28 พฤษภาคม-4 มิถุนายน 2567



Wind Direction (Blowing from)

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E 282072

คุณภาพอากาศในบรรยากาศ (VOCs by Canister)

**Report No. : 2024-500000557 / 002-1 (Page 1 of 4)**
**Issued date :** February 9, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.

**CONTACT :**
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

**Tel. :**
**Fax. :**
**E-mail :**

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister)

**SAMPLING DATE :** January 9-10, 2024

**SAMPLING LOCATION :** Ban Aow Pradoo

**SAMPLING BY :**
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs</b>				
1. Propene	2.95	5.08	-	-
2. Dichlorodifluoromethane (F-12)	0.46	2.28	-	-
3. Chlorodifluoromethane (F-22)	0.40	1.41	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	1.14	2.32	-	-
6. Isobutene	0.98	2.24	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	3.41	6.15	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.20	1.12	-	-
14. Pentane	1.80	5.30	-	-
15. Ethanol	2.80	5.28	-	-
16. Isoprene	0.24	0.67	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	6.53	15.50	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	0.24	0.40	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.70	2.43	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

**\*\*** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500000557 / 002-1 (Page 2 of 4)** Issued date : February 9, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** **Fax. :** **E-mail :**

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** January 9-10, 2024  
**SAMPLING LOCATION :** Ban Aow Pradoo **SAMPLING BY :**   
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
29. Hexane	0.44	1.55	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	2.10	6.17	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.40	1.37	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.76	2.43	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	0.20	0.82	-	-
54. Toluene	4.01	15.11	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500000557 / 002-1 (Page 3 of 4)** Issued date : February 9, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. [REDACTED] Fax. [REDACTED] E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** January 9-10, 2024  
**SAMPLING LOCATION :** Ban Aow Pradoo **SAMPLING BY :** [REDACTED]  
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ( $\mu\text{g}/\text{m}^3$ )	Standard** ( $\mu\text{g}/\text{m}^3$ )
	(ppb)	( $\mu\text{g}/\text{m}^3$ )		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.24	1.04	-	-
64. p,m-Xylene	0.40	1.74	-	-
65. o-Xylene	0.12	0.52	-	-
66. Styrene	0.44	1.87	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4-dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark: -** Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources: \*** Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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**Report No. : 2024-500000557 / 002-1 (Page 4 of 4)**

**Issued date : February 9, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS :**

4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality**

**SAMPLING DATE : January 9-10, 2024**

**SAMPLING LOCATION : Ban Aow Pradoo**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ( $\mu\text{g}/\text{m}^3$ )	Standard** ( $\mu\text{g}/\text{m}^3$ )
	(ppm)	( $\text{mg}/\text{m}^3$ )		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500000557 / 002-2 (Page 1 of 4)**

**Issued date : February 9, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, 1-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel.:**

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**E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**

**SAMPLING DATE : January 9-10, 2024**

**SAMPLING LOCATION : New CO Plant of BTC**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m <sup>3</sup> )	Standard** (µg/m <sup>3</sup> )
	(ppb)	(µg/m <sup>3</sup> )		
<b>VOCs</b>				
1. Propene	4.12	7.09	-	-
2. Dichlorodifluoromethane (F-12)	0.48	2.38	-	-
3. Chlorodifluoromethane (F-22)	0.40	1.41	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	1.24	2.54	-	-
6. Isobutene	1.52	3.48	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	1.12	2.48	5.3	-
9. Acetaldehyde	5.84	10.53	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	0.12	0.47	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.24	1.35	-	-
14. Pentane	2.20	6.49	-	-
15. Ethanol	3.20	6.03	-	-
16. Isoprene	0.12	0.33	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	6.60	15.68	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	0.24	0.40	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.92	3.20	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500000557 / 002-2 (Page 2 of 4)**
**Issued date : February 9, 2024**
**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**
**CONTACT :**
**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**
**Tel. :**
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## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**
**SAMPLING DATE : January 9-10, 2024**
**SAMPLING LOCATION : New CO Plant of BTC**
**SAMPLING BY :**
**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ( $\mu\text{g}/\text{m}^3$ )	Standard** ( $\mu\text{g}/\text{m}^3$ )
	(ppb)	( $\mu\text{g}/\text{m}^3$ )		
VOCs (Cont.)				
29. Hexane	0.52	1.83	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	2.00	5.89	-	-
38. Chloroform	0.08	0.39	57	-
39. Cyclohexane	0.28	0.96	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.96	3.07	7.6	-
43. 1,2-dichloroethane (EDC)	0.16	0.65	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	2.20	6.67	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	0.72	2.59	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. trans-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	0.20	0.82	-	-
54. Toluene	3.20	12.06	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

**Remark: -** Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources: \*** Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

**\*\*** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500000557 / 002-2 (Page 3 of 4)**
**Issued date : February 9, 2024**
**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**
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## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**
**SAMPLING DATE : January 9-10, 2024**
**SAMPLING LOCATION : New CO Plant of BTC**
**SAMPLING BY :**
**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	0.08	0.37	-	-
63. Ethylbenzene	0.32	1.39	-	-
64. p,m-Xylene	0.80	3.47	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	2.12	9.03	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	0.16	0.79	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark: -** Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources: \*** Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

**\*\*** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500000557 / 002-2 (Page 4 of 4)**

**Issued date :** February 9, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.

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## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality

**SAMPLING DATE :** January 9-10, 2024

**SAMPLING LOCATION :** New CO Plant of BTC

**SAMPLING BY :** [REDACTED]

**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ( $\mu\text{g}/\text{m}^3$ )	Standard** ( $\mu\text{g}/\text{m}^3$ )
	(ppm)	( $\text{mg}/\text{m}^3$ )		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500000557 / 002-3 (Page 1 of 4)**

**Issued date : February 9, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

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## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**

**SAMPLING DATE : January 9-10, 2024**

**SAMPLING LOCATION : Siam Yamato Steel Plant(I-8 Road)**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m <sup>3</sup> )	Standard** (µg/m <sup>3</sup> )
	(ppb)	(µg/m <sup>3</sup> )		
<b>VOCs</b>				
1. Propene	3.10	5.34	-	-
2. Dichlorodifluoromethane (F-12)	0.48	2.38	-	-
3. Chlorodifluoromethane (F-22)	0.44	1.56	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	1.07	2.19	-	-
6. Isobutene	0.88	2.02	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	1.99	4.40	5.3	-
9. Acetaldehyde	2.95	5.32	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.24	1.35	-	-
14. Pentane	1.99	5.87	-	-
15. Ethanol	3.50	6.59	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	6.49	15.42	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	0.20	0.34	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	1.31	4.55	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

**Remark: -** Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources: \*** Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

**\*\*** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500000557 / 002-3 (Page 2 of 4)**
**Issued date : February 9, 2024**
**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**
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**E-mail: [REDACTED]**

## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**
**SAMPLING DATE : January 9-10, 2024**
**SAMPLING LOCATION : Siam Yamato Steel Plant (I-8 Road)**
**SAMPLING BY : [REDACTED]**
**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m <sup>3</sup> )	Standard** (µg/m <sup>3</sup> )
	(ppb)	(µg/m <sup>3</sup> )		
<b>VOCs (Cont.)</b>				
29. Hexane	0.76	2.68	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	2.07	6.10	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.64	2.20	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.84	2.68	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	0.20	0.82	-	-
54. Toluene	3.38	12.74	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

**\*\*** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500000557 / 002-3 (Page 3 of 4)**
**Issued date : February 9, 2024**
**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**
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**Tel. : Fax. : E-mail:** 

## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**
**SAMPLING DATE : January 9-10, 2024**
**SAMPLING LOCATION : Siam Yamato Steel Plant(I-8 Road)**
**SAMPLING BY :**
**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ( $\mu\text{g}/\text{m}^3$ )	Standard** ( $\mu\text{g}/\text{m}^3$ )
	(ppb)	( $\mu\text{g}/\text{m}^3$ )		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	0.32	1.47	-	-
63. Ethylbenzene	1.15	4.99	-	-
64. p,m-Xylene	0.88	3.82	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	10.07	42.90	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	0.24	1.18	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark: -** Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources: \*** Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

**\*\*** Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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E 275203

 SGS (Thailand) Limited Environment, Health and Safety 100 Nanglinchee Road Chongnonsee Yannawa Bangkok 10120  
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Member of the SGS Group

**Report No. : 2024-500000557 / 002-3 (Page 4 of 4)** Issued date : February 9, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality  
 SAMPLING LOCATION : Siam Yamato Steel Plant (I-8 Road)  
 LABORATORY NAME : SGS (Thailand) Limited  
 SAMPLING DATE : January 9-10, 2024  
 SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.  
**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).  
 \*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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E 275204

**Report No. : 2024-500000557 / 002-5 (Page 1 of 3)** Issued date : February 9, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :  
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction  
 MEASUREMENT LOCATION : Ban Aow Pradoo  
 LABORATORY NAME : SGS (Thailand) Limited  
 MEASUREMENT DATE : January 9-10, 2024  
 MEASURED BY :

Location	TIME	January 9-10, 2024	
		WD	WS (m/s)
Ban Aow Pradoo	10:00-11:00	SE	1.8
	11:00-12:00	SE	1.3
	12:00-13:00	S	1.8
	13:00-14:00	SSW	1.3
	14:00-15:00	SSW	1.3
	15:00-16:00	S	1.3
	16:00-17:00	SSW	1.3
	17:00-18:00	SSW	0.9
	18:00-19:00	-	CALM
	19:00-20:00	WNW	0.9
	20:00-21:00	-	CALM
	21:00-22:00	-	CALM
	22:00-23:00	-	CALM
	23:00-00:00	-	CALM
	00:00-01:00	-	CALM
	01:00-02:00	-	CALM
	02:00-03:00	-	CALM
	03:00-04:00	-	CALM
	04:00-05:00	-	CALM
	05:00-06:00	-	CALM
	06:00-07:00	-	CALM
	07:00-08:00	-	CALM
	08:00-09:00	ENE	1.3
	09:00-10:00	ESE	1.3

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed  
 - WD = Wind Direction

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E 275209

**Report No. : 2024-500000557 / 002-5 (Page 2 of 3)** Issued date : February 9, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : January 9-10, 2024  
 MEASUREMENT LOCATION : Ban Aow Pradoo MEASURED BY :   
 LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	4.17	-	-	-
E	-	-	-	-	-
ESE	-	4.17	-	-	-
SE	-	8.33	-	-	-
SSE	-	-	-	-	-
S	-	8.33	-	-	-
SSW	4.17	12.50	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	4.17	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	54.17				

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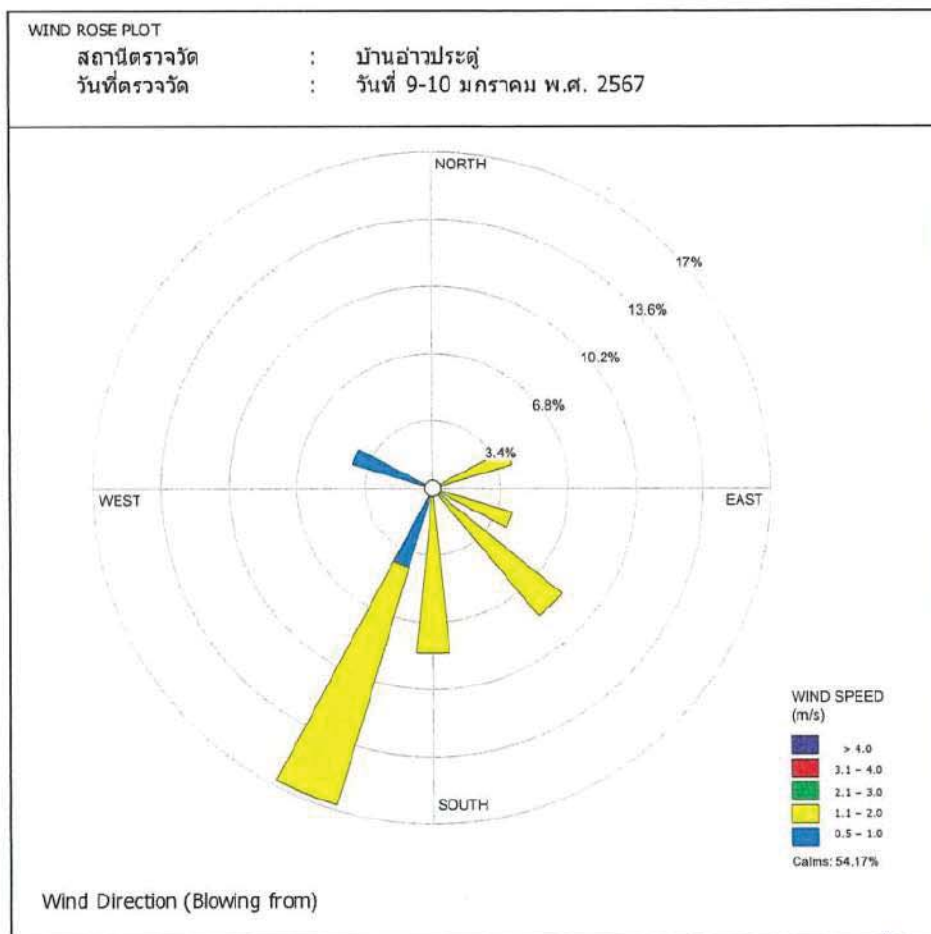
E 275210

**Report No. : 2024-500000557 / 002-5 (Page 3 of 3)** Issued date : February 9, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : January 9-10, 2024  
 MEASUREMENT LOCATION : Ban Aow Pradoo MEASURED BY :   
 LABORATORY NAME : SGS (Thailand) Limited



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E 275211

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Member of the SGS Group

**Report No. : 2024-500000557 / 002-6 (Page 1 of 3)** Issued date : February 9, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : January 9-10, 2024  
 MEASUREMENT LOCATION : New CO Plant of BTC MEASURED BY :   
 LABORATORY NAME : SGS (Thailand) Limited

Location	TIME	January 9-10, 2024	
		WD	WS (m/s)
New CO Plant of BTC	10:00-11:00	WSW	2.2
	11:00-12:00	S	2.2
	12:00-13:00	S	3.1
	13:00-14:00	S	2.7
	14:00-15:00	WSW	2.2
	15:00-16:00	WSW	2.7
	16:00-17:00	WSW	1.3
	17:00-18:00	WSW	1.8
	18:00-19:00	WSW	2.2
	19:00-20:00	WSW	2.2
	20:00-21:00	SW	1.8
	21:00-22:00	WSW	1.8
	22:00-23:00	WSW	1.3
	23:00-00:00	NNE	0.9
	00:00-01:00	NNE	0.9
	01:00-02:00	-	CALM
	02:00-03:00	-	CALM
	03:00-04:00	ENE	0.9
	04:00-05:00	ENE	0.9
	05:00-06:00	ENE	0.9
	06:00-07:00	-	CALM
	07:00-08:00	NE	0.9
	08:00-09:00	NE	1.3
	09:00-10:00	ENE	2.7

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed  
 - WD = Wind Direction

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E 275212

**Report No. : 2024-500000557 / 002-6 (Page 2 of 3)** Issued date : February 9, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** **Fax. :** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction **MEASUREMENT DATE :** January 9-10, 2024  
**MEASUREMENT LOCATION :** New CO Plant of BTC **MEASURED BY :**   
**LABORATORY NAME :** SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	8.33	-	-	-	-
NE	4.17	4.17	-	-	-
ENE	12.50	-	4.17	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	8.33	4.17	-
SSW	-	-	-	-	-
SW	-	4.17	-	-	-
WSW	-	16.67	20.83	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	12.50				

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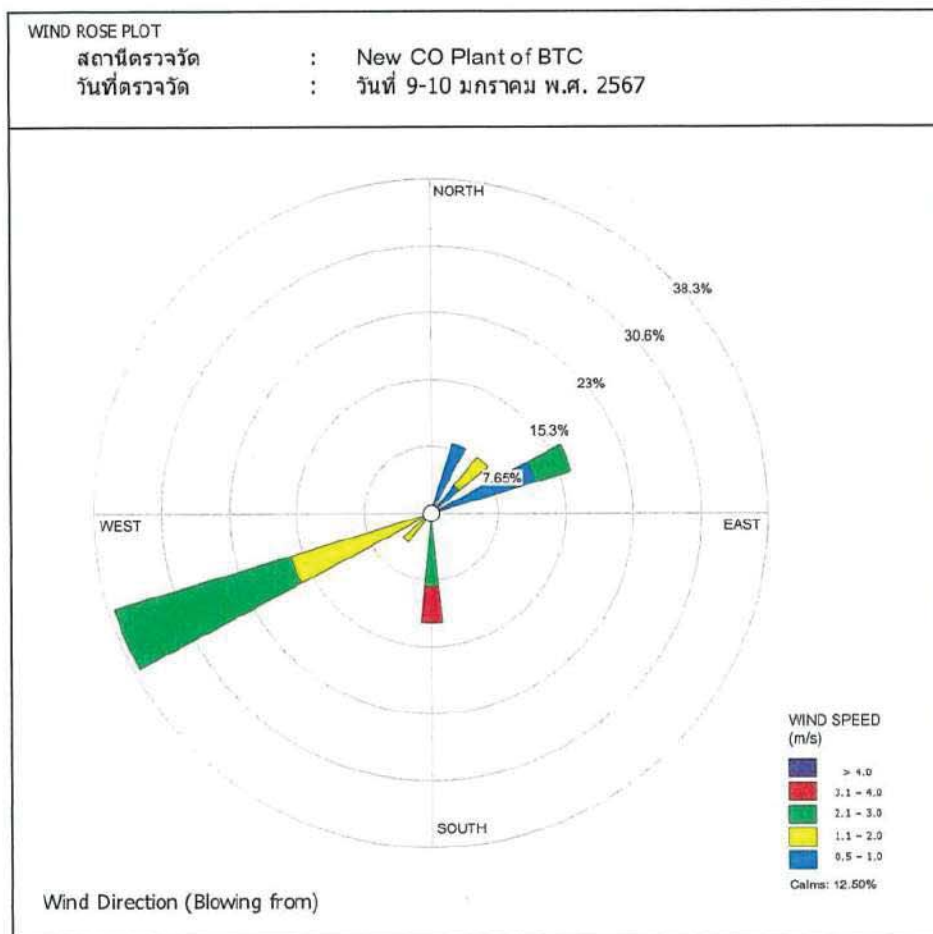
E 275213

**Report No. : 2024-500000557 / 002-6 (Page 3 of 3)** Issued date : February 9, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :  
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : January 9-10, 2024  
 MEASUREMENT LOCATION : New CO Plant of BTC MEASURED BY :  
 LABORATORY NAME : SGS (Thailand) Limited



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SGS (THAILAND) LIMITED



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E 275214

**Report No. : 2024-500000557 / 002-7 (Page 1 of 3)** Issued date : February 9, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction **MEASUREMENT DATE :** January 9-10, 2024  
**MEASUREMENT LOCATION :** Siam Yamato Steel Plant (I-8 Road) **MEASURED BY :**   
**LABORATORY NAME :** SGS (Thailand) Limited

Location	TIME	January 9-10, 2024	
		WD	WS (m/s)
Siam Yamato Steel Plant	10:00-11:00	WSW	3.1
	11:00-12:00	WSW	3.1
	12:00-13:00	WSW	3.1
	13:00-14:00	WSW	3.1
	14:00-15:00	WSW	2.7
	15:00-16:00	WSW	2.7
	16:00-17:00	WSW	2.7
	17:00-18:00	WSW	2.7
	18:00-19:00	WSW	2.7
	19:00-20:00	W	1.8
	20:00-21:00	W	1.3
	21:00-22:00	W	1.3
	22:00-23:00	W	1.8
	23:00-00:00	WSW	1.8
	00:00-01:00	-	CALM
	01:00-02:00	-	CALM
	02:00-03:00	-	CALM
	03:00-04:00	-	CALM
	04:00-05:00	NE	0.9
	05:00-06:00	-	CALM
	06:00-07:00	NE	0.9
	07:00-08:00	NE	0.9
	08:00-09:00	NE	1.3
	09:00-10:00	ESE	2.2

**Measurement Method :** - Wind speed and direction recording meter

**Remarks :** - WS = Wind Speed  
 - WD = Wind Direction

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SGS (THAILAND) LIMITED



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E 275215

**Report No. : 2024-500000557 / 002-7 (Page 2 of 3)** Issued date : February 9, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction **MEASUREMENT DATE :** January 9-10, 2024  
**MEASUREMENT LOCATION :** Siam Yamato Steel Plant(I-8 Road) **MEASURED BY :** [REDACTED]  
**LABORATORY NAME :** SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	12.50	4.17	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	4.17	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	4.17	20.83	16.67	-
W	-	16.67	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	20.83				

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SGS (THAILAND) LIMITED



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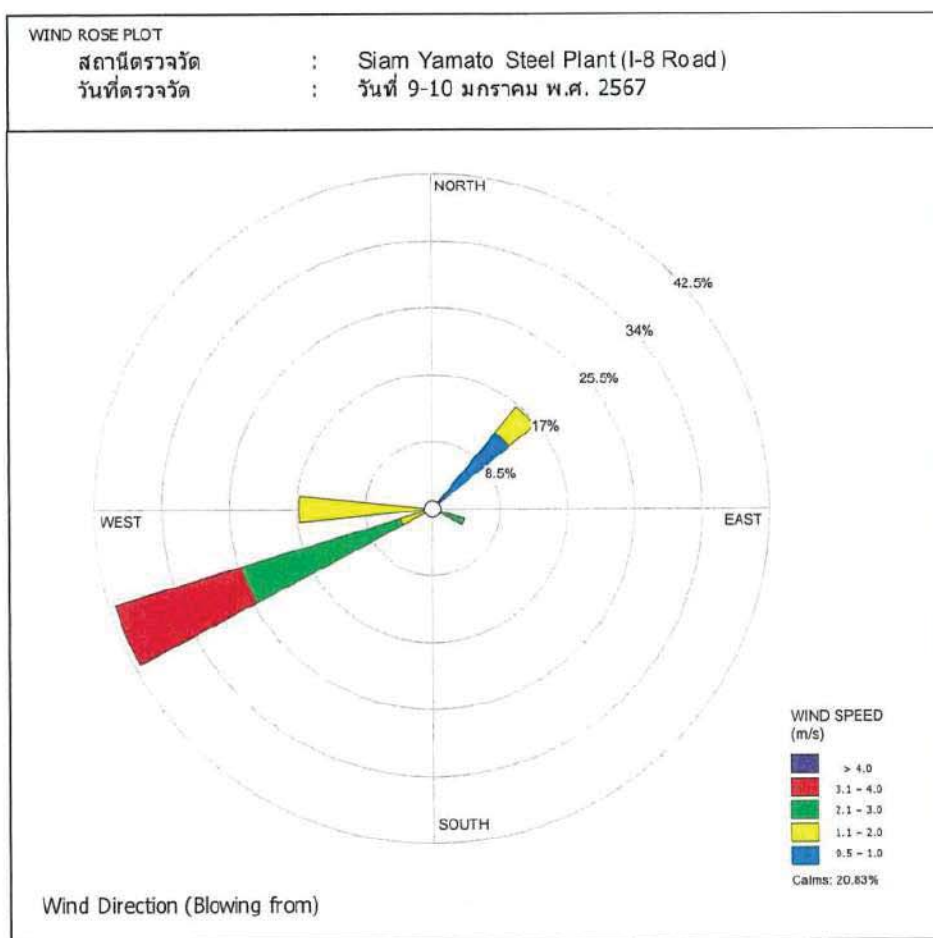
E 275216

**Report No. : 2024-500000557 / 002-7 (Page 3 of 3)** Issued date : February 9, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction **MEASUREMENT DATE :** January 9-10, 2024  
**MEASUREMENT LOCATION :** Siam Yamato Steel Plant (I-8 Road) **MEASURED BY :** [REDACTED]  
**LABORATORY NAME :** SGS (Thailand) Limited



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SGS (THAILAND) LIMITED



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E 275217

**Report No. : 2024-500000778 / 002-1 (Page 1 of 4)**
**Issued date :** February 16, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :**  **Fax. :**  **E-mail :**

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** February 6-7, 2024  
**SAMPLING LOCATION :** Ban Aow Pradoo **SAMPLING BY :**   
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs</b>				
1. Propene	1.48	2.54	-	-
2. Dichlorodifluoromethane (F-12)	0.44	2.18	-	-
3. Chlorodifluoromethane (F-22)	0.32	1.13	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.84	1.72	-	-
6. Isobutene	<0.05	<0.11	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	2.92	5.26	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.20	1.12	-	-
14. Pentane	0.94	2.77	-	-
15. Ethanol	0.90	1.70	-	-
16. Isoprene	0.16	0.44	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	2.56	6.07	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.54	1.88	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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E 276062

**Report No. : 2024-500000778 / 002-1 (Page 2 of 4)**
**Issued date :** February 16, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** **Fax. :** **E-mail :**

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** February 6-7, 2024  
**SAMPLING LOCATION :** Ban Aow Pradoo **SAMPLING BY :**   
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
29. Hexane	0.16	0.56	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	0.16	0.47	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	<0.05	<0.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.16	0.51	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	0.20	0.75	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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E 276063

**Report No. : 2024-500000778 / 002-1 (Page 3 of 4)**
**Issued date :** February 16, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :**  **Fax. :**  **E-mail :**

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** February 6-7, 2024  
**SAMPLING LOCATION :** Ban Aow Pradoo **SAMPLING BY :**   
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	<0.05	<0.22	-	-
64. p,m-Xylene	<0.05	<0.22	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	<0.05	<0.21	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**E 276064**

**Report No. : 2024-500000778 / 002-1 (Page 4 of 4)**

**Issued date :** February 16, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** **Fax. :** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality  
**SAMPLING LOCATION :** Ban Aow Pradoo  
**LABORATORY NAME :** SGS (Thailand) Limited

**SAMPLING DATE :** February 6-7, 2024  
**SAMPLING BY :**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m <sup>3</sup> )	Standard** (µg/m <sup>3</sup> )
	(ppm)	(mg/m <sup>3</sup> )		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500000778 / 002-2 (Page 1 of 4)**
**Issued date : February 16, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :**  **Fax. :**  **E-mail :**

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE:** February 6-7, 2024  
**SAMPLING LOCATION :** New CO Plant of BTC **SAMPLING BY :**   
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ( $\mu\text{g}/\text{m}^3$ )	Standard** ( $\mu\text{g}/\text{m}^3$ )
	(ppb)	( $\mu\text{g}/\text{m}^3$ )		
<b>VOCs</b>				
1. Propene	0.72	1.24	-	-
2. Dichlorodifluoromethane (F-12)	0.44	2.18	-	-
3. Chlorodifluoromethane (F-22)	0.32	1.13	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.84	1.72	-	-
6. Isobutene	<0.05	<0.11	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	1.31	2.90	5.3	-
9. Acetaldehyde	3.26	5.88	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.20	1.12	-	-
14. Pentane	0.24	0.71	-	-
15. Ethanol	0.4	0.75	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	3.14	7.46	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.88	3.06	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500000778 / 002-2 (Page 2 of 4)**
**Issued date :** February 16, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :**  **Fax. :**  **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE:** February 6-7, 2024  
**SAMPLING LOCATION :** New CO Plant of BTC **SAMPLING BY :**   
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m <sup>3</sup> )	Standard** (µg/m <sup>3</sup> )
	(ppb)	(µg/m <sup>3</sup> )		
<b>VOCs (Cont.)</b>				
29. Hexane	<0.05	<0.18	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	0.16	0.47	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	<0.05	<0.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.12	0.38	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	0.12	0.45	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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E 276067

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**Report No. : 2024-500000778 / 002-2 (Page 3 of 4)**
**Issued date : February 16, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :**  **Fax. :**  **E-mail :**

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE:** February 6-7, 2024  
**SAMPLING LOCATION :** New CO Plant of BTC **SAMPLING BY :**   
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m <sup>3</sup> )	Standard** (µg/m <sup>3</sup> )
	(ppb)	(µg/m <sup>3</sup> )		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	0.16	0.74	-	-
63. Ethylbenzene	<0.05	<0.22	-	-
64. p,m-Xylene	<0.05	<0.22	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	0.24	1.02	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500000778 / 002-2 (Page 4 of 4)**

**Issued date :** February 16, 2024

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**Tel. :** **Fax. :** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality  
**SAMPLING LOCATION :** New CO Plant of BTC  
**LABORATORY NAME :** SGS (Thailand) Limited

**SAMPLING DATE:** February 6-7, 2024  
**SAMPLING BY :**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m <sup>3</sup> )	Standard** (µg/m <sup>3</sup> )
	(ppm)	(mg/m <sup>3</sup> )		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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Member of the SGS Group

**Report No. : 2024-500000778 / 002-3 (Page 1 of 4)**
**Issued date :** February 16, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel.:**  **Fax:**  **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** February 6-7, 2024  
**SAMPLING LOCATION :** Siam Yamato Steel Plant **SAMPLING BY :**   
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ( $\mu\text{g}/\text{m}^3$ )	Standard** ( $\mu\text{g}/\text{m}^3$ )
	(ppb)	( $\mu\text{g}/\text{m}^3$ )		
<b>VOCs</b>				
1. Propene	0.28	0.48	-	-
2. Dichlorodifluoromethane (F-12)	0.40	1.98	-	-
3. Chlorodifluoromethane (F-22)	0.32	1.13	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.84	1.72	-	-
6. Isobutene	<0.05	<0.11	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	1.71	3.08	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.20	1.12	-	-
14. Pentane	<0.05	<0.15	-	-
15. Ethanol	0.8	1.51	-	-
16. Isoprene	0.44	1.22	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	4.02	9.55	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.52	1.81	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500000778 / 002-3 (Page 2 of 4)**
**Issued date : February 16, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :**  **Fax. :**  **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** February 6-7, 2024  
**SAMPLING LOCATION :** Siam Yamato Steel Plant **SAMPLING BY :**   
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
29. Hexane	<0.05	<0.18	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	0.12	0.35	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	<0.05	<0.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.20	0.64	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	0.08	0.30	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500000778 / 002-3 (Page 3 of 4)**
**Issued date :** February 16, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
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**Tel.:** **Fax.:** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** February 6-7, 2024  
**SAMPLING LOCATION :** Siam Yamato Steel Plant **SAMPLING BY :**   
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	<0.05	<0.22	-	-
64. p,m-Xylene	<0.05	<0.22	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	<0.05	<0.21	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4-dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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**Report No. : 2024-500000778 / 002-3 (Page 4 of 4)**

**Issued date :** February 16, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
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**Tel. :** **Fax. :** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality  
**SAMPLING LOCATION :** Siam Yamato Steel Plant  
**LABORATORY NAME :** SGS (Thailand) Limited

**SAMPLING DATE:** February 6-7, 2024  
**SAMPLING BY :**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m <sup>3</sup> )	Standard** (µg/m <sup>3</sup> )
	(ppm)	(mg/m <sup>3</sup> )		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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**Report No. : 2024-500000778 / 002-5 (Page 1 of 3)** Issued date : February 16, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
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 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail :

## Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction  
 MEASUREMENT LOCATION : Ban Aow Pradoo  
 LABORATORY NAME : SGS (Thailand) Limited  
 MEASUREMENT DATE : February 6-7, 2024  
 MEASURED BY :

Location	TIME	February 6-7, 2024	
		WD	WS (m/s)
Ban Aow Pradoo	15:00-16:00	SW	1.8
	16:00-17:00	SW	1.3
	17:00-18:00	SW	1.3
	18:00-19:00	S	0.9
	19:00-20:00	SW	0.9
	20:00-21:00	-	CALM
	21:00-22:00	-	CALM
	22:00-23:00	-	CALM
	23:00-00:00	-	CALM
	00:00-01:00	-	CALM
	01:00-02:00	SW	0.9
	02:00-03:00	SW	0.9
	03:00-04:00	SW	0.9
	04:00-05:00	SW	0.9
	05:00-06:00	SSW	0.9
	06:00-07:00	S	0.9
	07:00-08:00	SSE	0.9
	08:00-09:00	SSE	1.3
	09:00-10:00	SSW	1.3
	10:00-11:00	SW	1.3
	11:00-12:00	SW	1.8
	12:00-13:00	SW	1.3
	13:00-14:00	SW	1.8
	14:00-15:00	SW	1.8

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed  
 - WD = Wind Direction

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**Report No. : 2024-500000778 / 002-5 (Page 2 of 3)** Issued date : February 16, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
CONTACT :   
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
Tel. Fax. E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : February 6-7, 2024  
MEASUREMENT LOCATION : Ban Aow Pradoo MEASURED BY :   
LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	4.17	4.17	-	-	-
S	8.33	-	-	-	-
SSW	4.17	4.17	-	-	-
SW	20.83	33.33	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	20.83				

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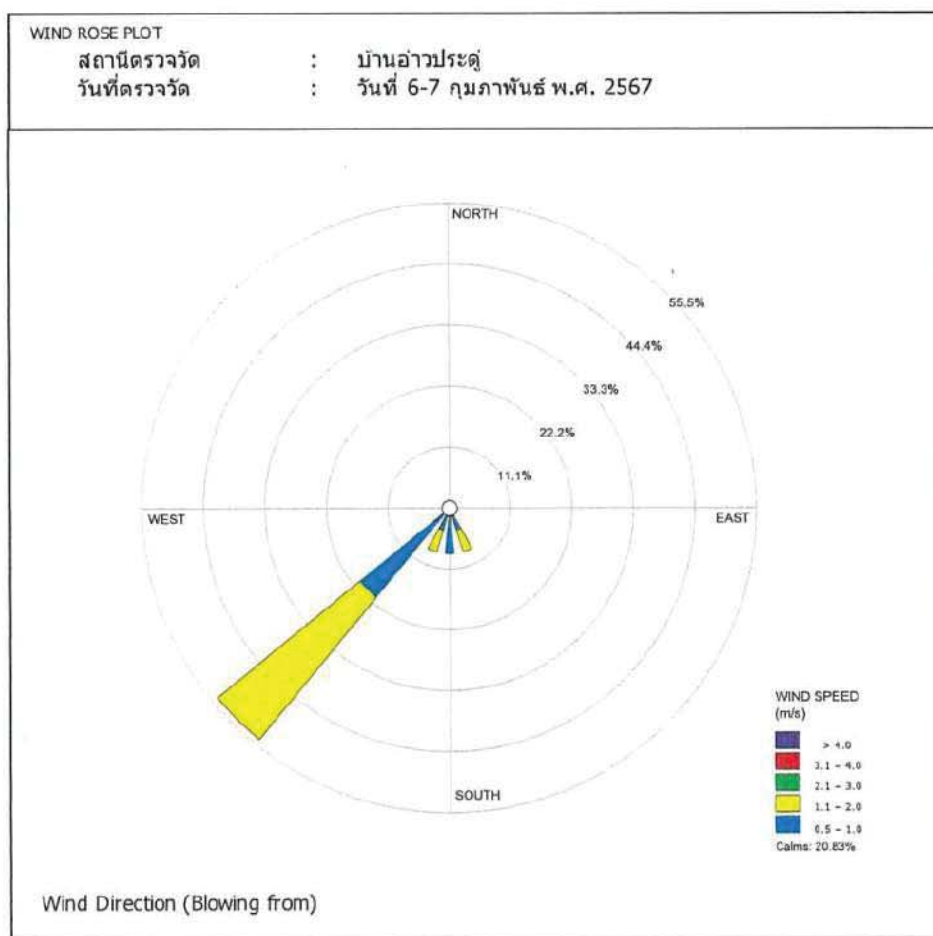
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**Report No. : 2024-500000778 / 002-5 (Page 3 of 3)** Issued date : February 16, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
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## Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : February 6-7, 2024  
 MEASUREMENT LOCATION : Ban Aow Pradoo MEASURED BY :   
 LABORATORY NAME : SGS (Thailand) Limited



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SGS (THAILAND) LIMITED



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**Report No. : 2024-500000778 / 002-6 (Page 1 of 3)** Issued date : February 16, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :  
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction  
 MEASUREMENT LOCATION : New CO Plant of BTC  
 LABORATORY NAME : SGS (Thailand) Limited  
 MEASUREMENT DATE : February 6-7, 2024  
 MEASURED BY :

Location	TIME	February 6-7, 2024	
		WD	WS (m/s)
New CO Plant of BTC	15:00-16:00	S	2.7
	16:00-17:00	WSW	2.2
	17:00-18:00	WSW	2.2
	18:00-19:00	WSW	2.2
	19:00-20:00	S	1.8
	20:00-21:00	S	1.3
	21:00-22:00	S	1.3
	22:00-23:00	ENE	1.3
	23:00-00:00	S	1.3
	00:00-01:00	S	1.8
	01:00-02:00	S	1.8
	02:00-03:00	S	1.8
	03:00-04:00	SW	1.3
	04:00-05:00	S	1.8
	05:00-06:00	S	1.8
	06:00-07:00	S	1.3
	07:00-08:00	WSW	1.3
	08:00-09:00	S	1.8
	09:00-10:00	S	2.2
	10:00-11:00	S	2.2
	11:00-12:00	S	2.7
	12:00-13:00	WSW	2.7
	13:00-14:00	S	2.7
	14:00-15:00	S	2.7

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed  
 - WD = Wind Direction

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E 276081

**Report No. : 2024-500000778 / 002-6 (Page 2 of 3)** Issued date : February 16, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : February 6-7, 2024  
 MEASUREMENT LOCATION : New CO Plant of BTC MEASURED BY :   
 LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	4.17	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	45.83	25.00	-	-
SSW	-	-	-	-	-
SW	-	4.17	-	-	-
WSW	-	4.17	16.67	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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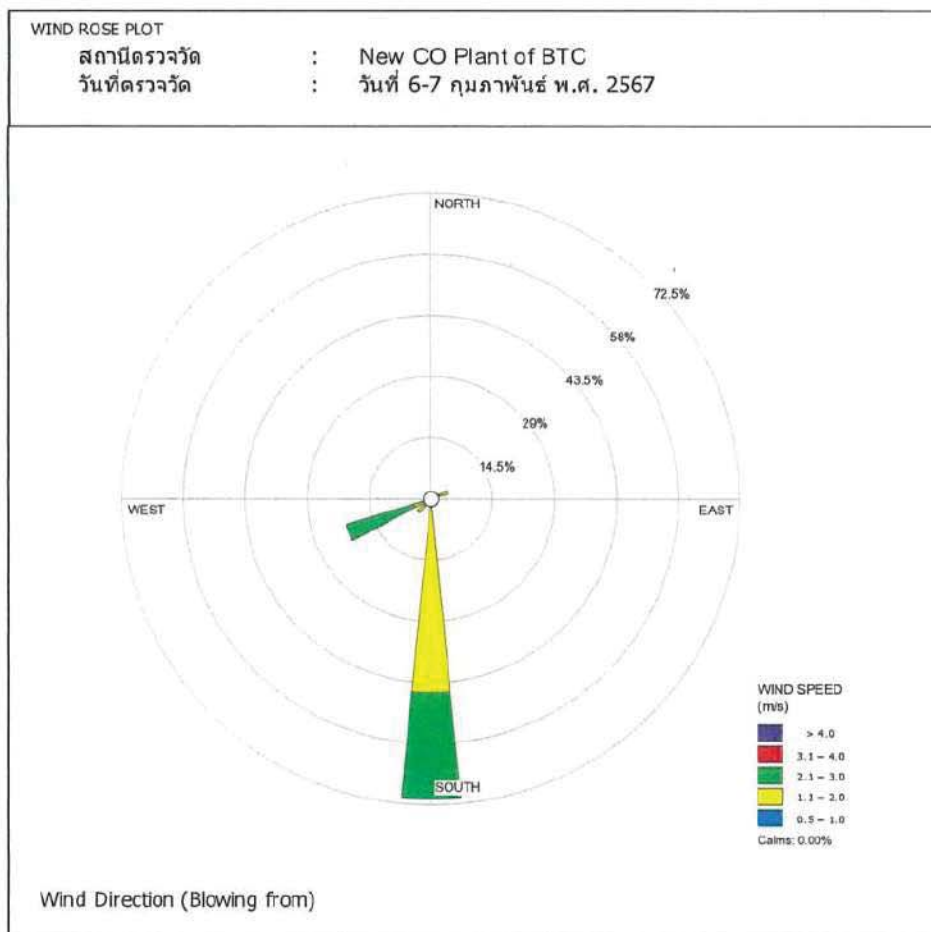
E 276082

**Report No. : 2024-500000778 / 002-6 (Page 3 of 3)** Issued date : February 16, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :  
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : February 6-7, 2024  
 MEASUREMENT LOCATION : New CO Plant of BTC MEASURED BY :  
 LABORATORY NAME : SGS (Thailand) Limited



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E 276083

**Report No. : 2024-500000778 / 002-7 (Page 1 of 3)** Issued date : February 16, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction  
 MEASUREMENT LOCATION : Siam Yamato Steel Plant  
 LABORATORY NAME : SGS (Thailand) Limited  
 MEASUREMENT DATE : February 6-7, 2024  
 MEASURED BY :

Location	TIME	February 6-7, 2024	
		WD	WS (m/s)
Siam Yamato Steel Plant	15:00-16:00	WSW	2.7
	16:00-17:00	WSW	2.7
	17:00-18:00	WSW	2.2
	18:00-19:00	WSW	2.2
	19:00-20:00	WSW	2.2
	20:00-21:00	SW	1.8
	21:00-22:00	SW	1.8
	22:00-23:00	WSW	1.8
	23:00-00:00	WSW	1.8
	00:00-01:00	WSW	1.8
	01:00-02:00	SW	1.8
	02:00-03:00	WSW	2.2
	03:00-04:00	WSW	2.2
	04:00-05:00	WSW	2.2
	05:00-06:00	WSW	2.2
	06:00-07:00	SW	1.8
	07:00-08:00	WSW	1.8
	08:00-09:00	WSW	2.2
	09:00-10:00	WSW	2.2
	10:00-11:00	WSW	2.2
	11:00-12:00	WSW	2.2
	12:00-13:00	SW	2.7
	13:00-14:00	WSW	3.1
	14:00-15:00	WSW	2.2

Measurement Method : - Wind speed and direction recording meter

Remarks : - WS = Wind Speed  
 - WD = Wind Direction

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E 276084

**Report No. : 2024-500000778 / 002-7 (Page 2 of 3)** Issued date : February 16, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : February 6-7, 2024  
 MEASUREMENT LOCATION : Siam Yamato Steel Plant MEASURED BY :   
 LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	16.67	4.17	-	-
WSW	-	16.67	58.33	4.17	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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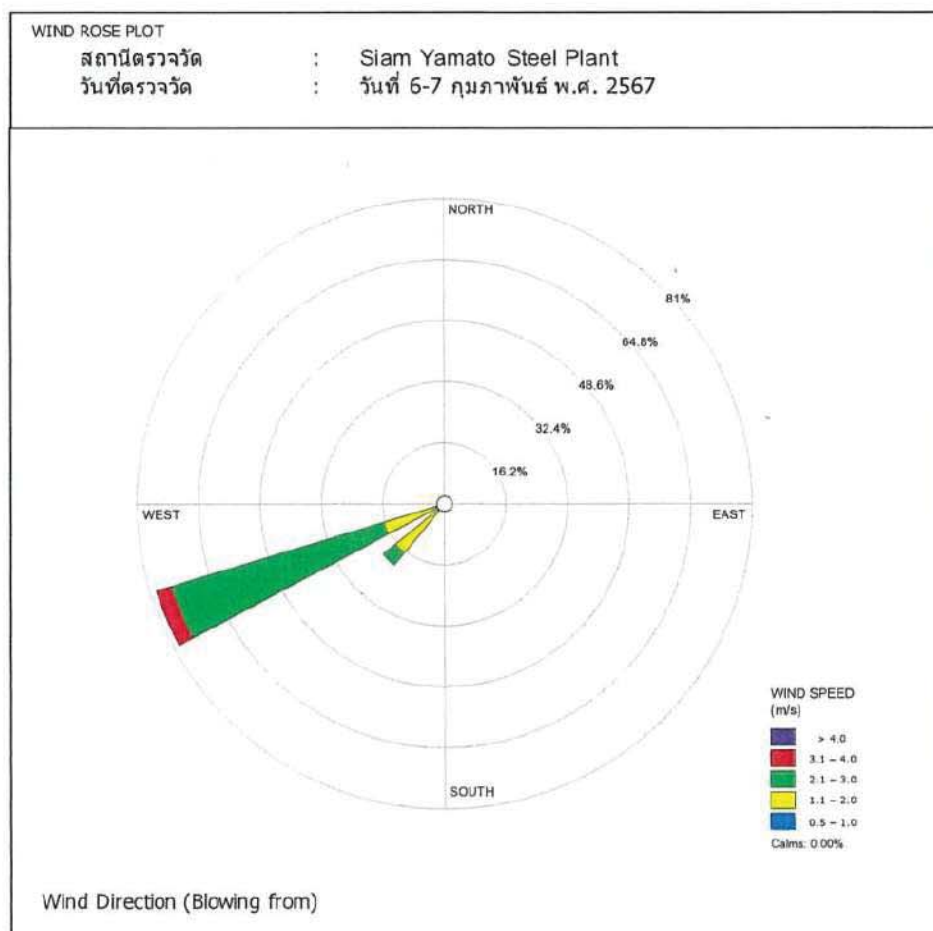
E 276085

**Report No. : 2024-500000778 / 002-7 (Page 3 of 3)** Issued date : February 16, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :  
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : February 6-7, 2024  
 MEASUREMENT LOCATION : Siam Yamato Steel Plant MEASURED BY :  
 LABORATORY NAME : SGS (Thailand) Limited



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E 276086

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** March 11-12, 2024  
**SAMPLING LOCATION :** Ban Aow Pradoo **SAMPLING BY :** [REDACTED]  
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs</b>				
1. Propene	0.30	0.52	-	-
2. Dichlorodifluoromethane (F-12)	0.40	1.98	-	-
3. Chlorodifluoromethane (F-22)	0.40	1.41	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.96	1.96	-	-
6. Isobutene	0.90	2.06	-	-
7. Vinyl Chloride	0.05	0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.05	0.11	5.3	-
9. Acetaldehyde	3.17	5.72	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.20	1.12	-	-
14. Pentane	<0.05	<0.15	-	-
15. Ethanol	2.05	3.85	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	<0.05	<0.12	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.86	<2.11	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.08	0.28	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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Report No. : 2024-500000976 / 002-1 (Page 2 of 4)

Issued date : March 29, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
CONTACT :   
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : March 11-12, 2024  
SAMPLING LOCATION : Ban Aow Pradoo SAMPLING BY :   
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m <sup>3</sup> )	Standard** (µg/m <sup>3</sup> )
	(ppb)	(µg/m <sup>3</sup> )		
VOCs (Cont.)				
29. Hexane	0.63	2.20	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	<0.05	<0.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.20	0.64	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. trans-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	3.38	12.75	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

SGS (THAILAND) LIMITED

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**Report No. : 2024-500000976 / 002-1 (Page 3 of 4)****Issued date : March 29, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** March 11-12, 2024  
**SAMPLING LOCATION :** Ban Aow Pradoo **SAMPLING BY :** [REDACTED]  
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.18	0.76	-	-
64. p,m-Xylene	<0.05	<0.22	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	<0.05	<0.21	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500000976 / 002-1 (Page 4 of 4)**

**Issued date : March 29, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. : Fax. : E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality**

**SAMPLING DATE : March 11-12, 2024**

**SAMPLING LOCATION : Ban Aow Pradoo**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ( $\mu\text{g}/\text{m}^3$ )	Standard** ( $\mu\text{g}/\text{m}^3$ )
	(ppm)	( $\text{mg}/\text{m}^3$ )		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500000976 / 002-2 (Page 1 of 4)**

**Issued date : March 29, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT : [REDACTED]**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. [REDACTED] Fax. [REDACTED] E-mail: [REDACTED]**

## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**

**SAMPLING DATE : March 11-12, 2024**

**SAMPLING LOCATION : New CO Plant of BTC**

**SAMPLING BY : [REDACTED]**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m <sup>3</sup> )	Standard** (µg/m <sup>3</sup> )
	(ppb)	(µg/m <sup>3</sup> )		
<b>VOCs</b>				
1. Propene	0.36	0.62	-	-
2. Dichlorodifluoromethane (F-12)	0.40	1.98	-	-
3. Chlorodifluoromethane (F-22)	0.40	1.41	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.92	1.88	-	-
6. Isobutene	0.72	1.65	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	3.82	6.89	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.20	1.12	-	-
14. Pentane	0.24	0.71	-	-
15. Ethanol	2.12	3.99	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	6.03	14.32	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.16	0.56	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



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**Report No. : 2024-500000976 / 002-2 (Page 2 of 4)**

**Issued date : March 29, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

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## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**

**SAMPLING DATE : March 11-12, 2024**

**SAMPLING LOCATION : New CO Plant of BTC**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
29. Hexane	1.31	4.62	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.12	0.41	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.12	0.38	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	3.90	14.70	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500000976 / 002-2 (Page 3 of 4)**

**Issued date : March 29, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

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## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**

**SAMPLING DATE : March 11-12, 2024**

**SAMPLING LOCATION : New CO Plant of BTC**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.60	2.61	-	-
64. p,m-Xylene	0.32	1.39	-	-
65. o-Xylene	0.08	0.35	-	-
66. Styrene	0.12	0.51	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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**Report No. : 2024-500000976 / 002-2 (Page 4 of 4)**

**Issued date : March 29, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

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## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality**

**SAMPLING DATE : March 11-12, 2024**

**SAMPLING LOCATION : New CO Plant of BTC**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



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Report No. : 2024-500000976 / 002-3 (Page 1 of 4)

Issued date : March 29, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
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Tel. : Fax: E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : March 11-12, 2024

SAMPLING LOCATION : Siam Yamato Steel Plant

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ( $\mu\text{g}/\text{m}^3$ )	Standard** ( $\mu\text{g}/\text{m}^3$ )
	(ppb)	( $\mu\text{g}/\text{m}^3$ )		
<b>VOCs</b>				
1. Propene	0.36	0.62	-	-
2. Dichlorodifluoromethane (F-12)	0.40	1.98	-	-
3. Chlorodifluoromethane (F-22)	0.36	1.27	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.72	1.47	-	-
6. Isobutene	<0.05	<0.11	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	2.36	4.26	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.20	1.12	-	-
14. Pentane	1.36	4.01	-	-
15. Ethanol	1.4	2.64	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	5.32	12.64	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	<0.05	<0.17	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
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## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister)  
**SAMPLING LOCATION :** Siam Yamato Steel Plant  
**LABORATORY NAME :** SGS (Thailand) Limited

**SAMPLING DATE :** March 11-12, 2024  
**SAMPLING BY :**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
29. Hexane	1.32	4.65	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	1.32	4.53	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.64	2.04	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	1.12	4.22	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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**Report No. : 2024-500000976 / 002-3 (Page 3 of 4)**

**Issued date : March 29, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
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## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister)  
**SAMPLING LOCATION :** Siam Yamato Steel Plant  
**LABORATORY NAME :** SGS (Thailand) Limited

**SAMPLING DATE :** March 11-12, 2024  
**SAMPLING BY :**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.08	0.35	-	-
64. p,m-Xylene	0.16	0.69	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	<0.05	<0.21	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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**Report No. : 2024-500000976 / 002-3 (Page 4 of 4)**

**Issued date :** March 29, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.

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## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality

**SAMPLING DATE :** March 11-12, 2024

**SAMPLING LOCATION :** Siam Yamato Steel Plant

**SAMPLING BY :** [REDACTED]

**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ( $\mu\text{g}/\text{m}^3$ )	Standard** ( $\mu\text{g}/\text{m}^3$ )
	(ppm)	( $\text{mg}/\text{m}^3$ )		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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**Report No. : 2024-500000976 / 002-5 (Page 1 of 3)** Issued date : March 29, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
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**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** Ban Aow Pradoo  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** March 11-12, 2024  
**MEASURED BY :**

Location	TIME	March 11-12, 2024	
		WD	WS (m/s)
Ban Aow Pradoo	09:00-10:00	SSW	1.3
	10:00-11:00	SSW	1.3
	11:00-12:00	SW	1.3
	12:00-13:00	SW	1.8
	13:00-14:00	S	1.8
	14:00-15:00	SE	2.2
	15:00-16:00	SSW	2.2
	16:00-17:00	SW	1.8
	17:00-18:00	SSW	1.3
	18:00-19:00	S	0.9
	19:00-20:00	SE	0.9
	20:00-21:00	SSE	0.9
	21:00-22:00	SSE	0.9
	22:00-23:00	SSE	0.9
	23:00-00:00	SSW	1.3
	00:00-01:00	SSW	1.3
	01:00-02:00	SW	0.9
	02:00-03:00	S	1.3
	03:00-04:00	SSW	1.3
	04:00-05:00	SSW	1.3
	05:00-06:00	SSW	0.9
	06:00-07:00	SW	0.9
	07:00-08:00	S	0.9
	08:00-09:00	SSW	1.3

**Measurement Method :** - Wind speed and direction recording meter

**Remarks :** - WS = Wind Speed  
 - WD = Wind Direction

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SGS (THAILAND) LIMITED



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E 277637



Report No. : 2024-500000976 / 002-5 (Page 2 of 3) Issued date : March 29, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
CONTACT :   
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
Tel. : Fax. : E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : March 11-12, 2024  
MEASUREMENT LOCATION : Ban Aow Pradoo MEASURED BY :   
LABORATORY NAME : SGS (Thailand) Limited

Wind Speed  Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	4.17	-	4.17	-	-
SSE	12.50	-	-	-	-
S	8.33	8.33	-	-	-
SSW	4.17	33.33	4.17	-	-
SW	8.33	12.50	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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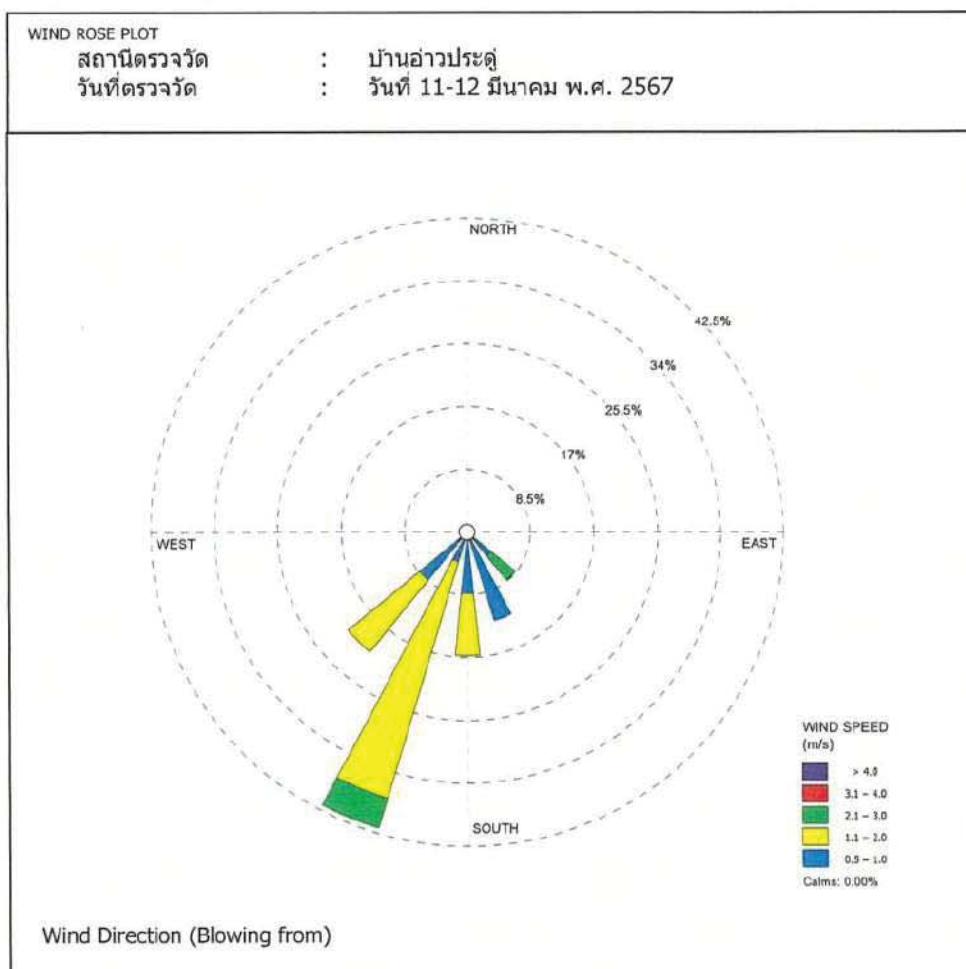
E 277638

**Report No. : 2024-500000976 / 002-5 (Page 3 of 3)** Issued date : March 29, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut. A. Muang. Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** Ban Aow Pradoo  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** March 11-12, 2024  
**MEASURED BY :**



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SGS (THAILAND) LIMITED



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E 277639

**Report No. : 2024-500000976 / 002-6 (Page 1 of 3)** Issued date : March 29, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** New CO Plant of BTC  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** March 11-12, 2024  
**MEASURED BY :**

Location	TIME	March 11-12, 2024	
		WD	WS (m/s)
New CO Plant of BTC	11:00-12:00	SSW	2.1
	12:00-13:00	SSW	2.0
	13:00-14:00	SE	2.0
	14:00-15:00	SW	1.6
	15:00-16:00	SW	1.6
	16:00-17:00	S	1.6
	17:00-18:00	SW	1.2
	18:00-19:00	SW	1.2
	19:00-20:00	WSW	1.2
	20:00-21:00	SW	1.2
	21:00-22:00	SSW	1.2
	22:00-23:00	SSE	1.2
	23:00-00:00	SSW	1.6
	00:00-01:00	S	2.1
	01:00-02:00	SSW	2.5
	02:00-03:00	SW	1.2
	03:00-04:00	SSW	2.1
	04:00-05:00	SW	1.6
	05:00-06:00	SSW	1.6
	06:00-07:00	SW	2.1
	07:00-08:00	SSW	2.1
	08:00-09:00	SW	2.1
	09:00-10:00	SW	1.6
	10:00-11:00	SW	1.6

**Measurement Method :** - Wind speed and direction recording meter

**Remarks :** - WS = Wind Speed  
 - WD = Wind Direction

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E 277640



Report No. : 2024-500000976 / 002-6 (Page 2 of 3) Issued date : March 29, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
CONTACT :   
ADDRESS : 4/2, I-8 Rd.. Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
Tel. Fax. E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : March 11-12, 2024  
MEASUREMENT LOCATION : New CO Plant of BTC MEASURED BY :   
LABORATORY NAME : SGS (Thailand) Limited

Wind Speed  Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	4.17	-	-	-
SSE	-	4.17	-	-	-
S	-	4.17	4.17	-	-
SSW	-	16.67	16.67	-	-
SW	-	37.50	8.33	-	-
WSW	-	4.17	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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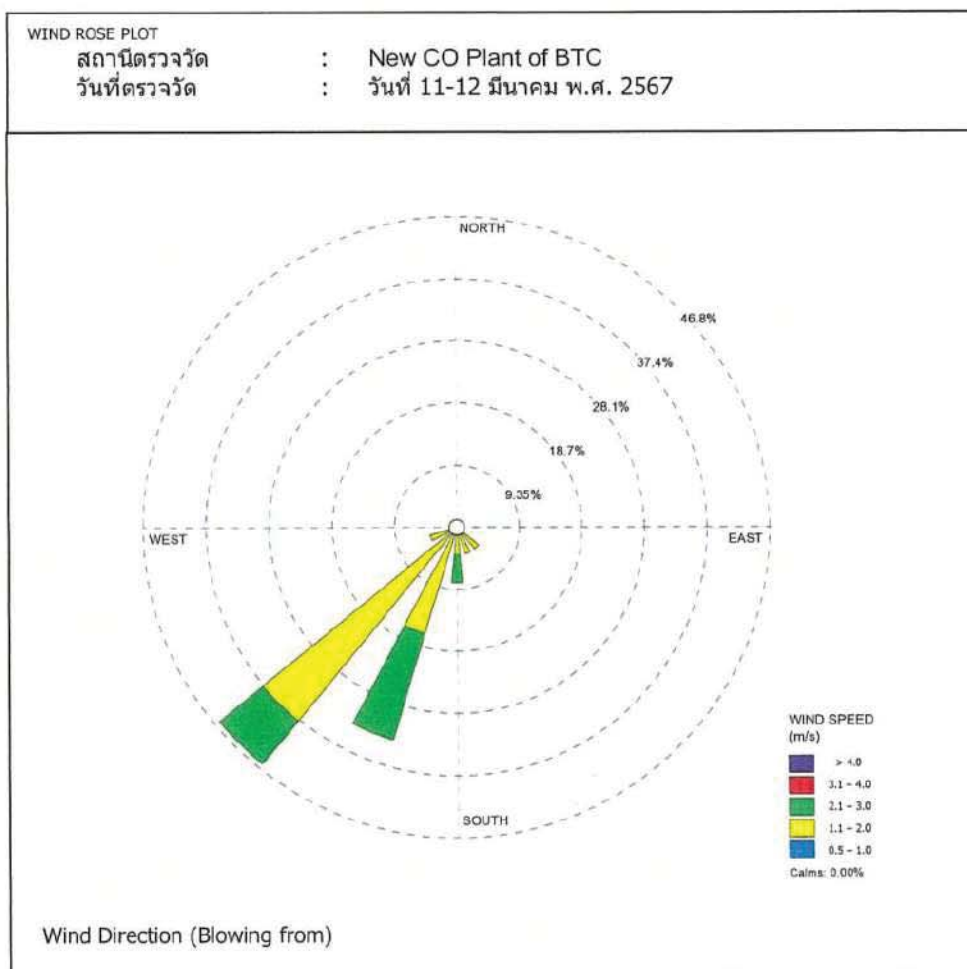
E 277641

**Report No. : 2024-500000976 / 002-6 (Page 3 of 3)** Issued date : March 29, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. [REDACTED] Fax. [REDACTED] E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** New CO Plant of BTC  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** March 11-12, 2024  
**MEASURED BY :** [REDACTED]



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SGS (THAILAND) LIMITED



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E 277642

**Report No. : 2024-500000976 / 002-7 (Page 1 of 3)** Issued date : March 29, 2024

**CLIENT** : INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT** :   
**ADDRESS** : 4/2, I-8 Rd., Mao Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS** : Wind Speed and Direction  
**MEASUREMENT LOCATION** : Siam Yamato Steel Plant  
**LABORATORY NAME** : SGS (Thailand) Limited  
**MEASUREMENT DATE** : March 11-12, 2024  
**MEASURED BY** :

Location	TIME	March 11-12, 2024	
		WD	WS (m/s)
Siam Yamato Steel Plant	09:00-10:00	SW	2.2
	10:00-11:00	WSW	2.7
	11:00-12:00	WSW	3.1
	12:00-13:00	WSW	3.1
	13:00-14:00	WSW	2.7
	14:00-15:00	SE	2.7
	15:00-16:00	WSW	2.7
	16:00-17:00	SW	2.7
	17:00-18:00	SW	2.7
	18:00-19:00	WSW	2.7
	19:00-20:00	WSW	2.2
	20:00-21:00	SW	2.2
	21:00-22:00	WSW	2.2
	22:00-23:00	WSW	2.2
	23:00-00:00	WSW	2.2
	00:00-01:00	WSW	2.2
	01:00-02:00	WSW	2.7
	02:00-03:00	WSW	2.7
	03:00-04:00	WSW	2.7
	04:00-05:00	SW	2.7
	05:00-06:00	SW	2.7
	06:00-07:00	SW	2.7
	07:00-08:00	SW	3.1
	08:00-09:00	WSW	2.7

**Measurement Method** : - Wind speed and direction recording meter

**Remarks** :  
 - WS = Wind Speed  
 - WD = Wind Direction

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E 277643

**Report No. : 2024-500000976 / 002-7 (Page 2 of 3)** Issued date : March 29, 2024

**CLIENT** : INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT** :   
**ADDRESS** : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS** : Wind Speed and Direction  
**MEASUREMENT LOCATION** : Siam Yamato Steel Plant  
**LABORATORY NAME** : SGS (Thailand) Limited  
**MEASUREMENT DATE** : March 11-12, 2024  
**MEASURED BY** :

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	4.17	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	29.17	4.17	-
WSW	-	-	54.17	8.33	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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SGS (THAILAND) LIMITED



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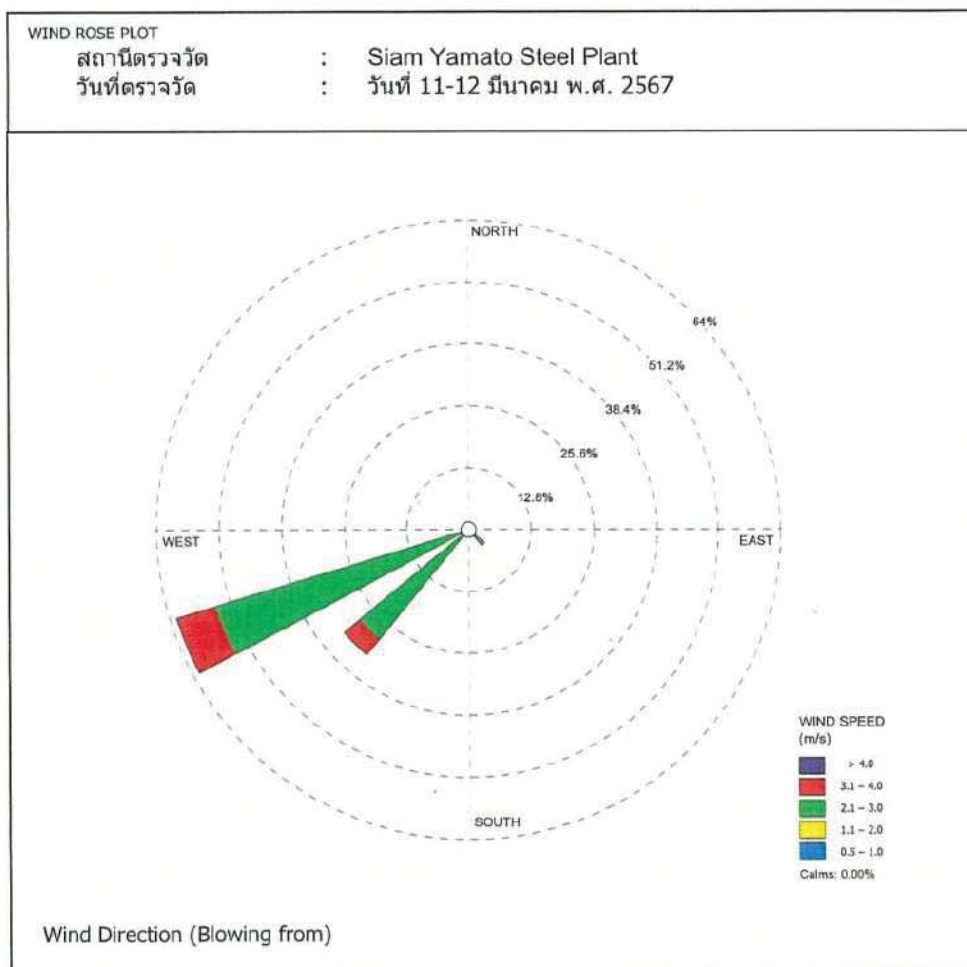
E 277644

**Report No. : 2024-500000976 / 002-7 (Page 3 of 3)** Issued date : March 29, 2024

**CLIENT** : INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT** :   
**ADDRESS** : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS** : Wind Speed and Direction  
**MEASUREMENT LOCATION** : Siam Yamato Steel Plant  
**LABORATORY NAME** : SGS (Thailand) Limited  
**MEASUREMENT DATE** : March 11-12, 2024  
**MEASURED BY** :



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SGS (THAILAND) LIMITED



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E 277645

SGS (Thailand) Limited

Environment, Health and Safety 100 Nanglinchee Road Chongnonsee Yannawa Bangkok 10120  
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Report No. : 2024-500001219 / 002-1 (Page 1 of 4)

Issued date : April 25, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
CONTACT :   
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : April 4-5, 2024  
SAMPLING LOCATION : Ban Aow Pradoo SAMPLING BY :   
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs</b>				
1. Propene	0.24	0.41	-	-
2. Dichlorodifluoromethane (F-12)	0.40	1.98	-	-
3. Chlorodifluoromethane (F-22)	0.24	0.85	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.60	1.23	-	-
6. Isobutene	<0.05	<0.11	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	2.39	4.31	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.16	0.90	-	-
14. Pentane	0.07	0.19	-	-
15. Ethanol	0.65	1.22	-	-
16. Isoprene	0.26	0.72	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	4.02	9.55	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	<0.05	<0.17	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.  
**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).  
\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

SGS (THAILAND) LIMITED

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E 280305

SGS (Thailand) Limited

Environment, Health and Safety 100 Nanglinchee Road Chongnonsee Yannawa Bangkok 10120  
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Member of the SGS Group

**Report No. : 2024-500001219 / 002-1 (Page 2 of 4)**

**Issued date : April 25, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. :**

**Fax. :**

**E-mail: :**

## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**

**SAMPLING DATE : April 4-5, 2024**

**SAMPLING LOCATION : Ban Aow Pradoo**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
29. Hexane	<0.05	<0.18	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	0.12	0.35	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	<0.05	<0.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	<0.05	<0.16	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	<0.05	<0.19	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500001219 / 002-1 (Page 3 of 4)**

**Issued date : April 25, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
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## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** April 4-5, 2024  
**SAMPLING LOCATION :** Ban Aow Pradoo **SAMPLING BY :**   
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	<0.05	<0.22	-	-
64. p,m-Xylene	<0.05	<0.22	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	0.20	0.85	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-Trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500001219 / 002-1 (Page 4 of 4)**

**Issued date : April 25, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
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## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality  
**SAMPLING LOCATION :** Ban Aow Pradoo  
**LABORATORY NAME :** SGS (Thailand) Limited

**SAMPLING DATE :** April 4-5, 2024  
**SAMPLING BY :**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500001219 / 002-2 (Page 1 of 4)**

**Issued date : April 25, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
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**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** April 4-5, 2024  
**SAMPLING LOCATION :** New CO Plant of BTC **SAMPLING BY :** [REDACTED]  
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs</b>				
1. Propene	0.56	0.96	-	-
2. Dichlorodifluoromethane (F-12)	0.40	1.98	-	-
3. Chlorodifluoromethane (F-22)	0.24	0.85	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.64	1.31	-	-
6. Isobutene	0.16	0.37	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	2.19	3.95	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.16	0.90	-	-
14. Pentane	1.19	3.51	-	-
15. Ethanol	0.40	0.75	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	1.87	4.44	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.16	0.56	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.  
**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).  
 \*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



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**Report No. : 2024-500001219 / 002-2 (Page 2 of 4)**

**Issued date : April 25, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

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## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**

**SAMPLING DATE : April 4-5, 2024**

**SAMPLING LOCATION : New CO Plant of BTC**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
29. Hexane	0.40	1.41	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	0.12	0.35	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	<0.05	<0.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.28	0.89	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	0.32	1.21	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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**Report No. : 2024-500001219 / 002-2 (Page 3 of 4)**

**Issued date : April 25, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

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## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**

**SAMPLING DATE : April 4-5, 2024**

**SAMPLING LOCATION : New CO Plant of BTC**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.08	0.35	-	-
64. p,m-Xylene	<0.05	<0.22	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	0.08	0.34	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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**Report No. : 2024-500001219 / 002-2 (Page 4 of 4)**

**Issued date : April 25, 2024**

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## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality  
**SAMPLING LOCATION :** New CO Plant of BTC  
**LABORATORY NAME :** SGS (Thailand) Limited

**SAMPLING DATE :** April 4-5, 2024  
**SAMPLING BY :** [REDACTED]

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.  
**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).  
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**Report No. : 2024-500001219 / 002-3 (Page 1 of 4)**

**Issued date : April 25, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

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**Tel. :**

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## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**

**SAMPLING DATE : April 4-5, 2024**

**SAMPLING LOCATION : Siam Yamato Steel Plant**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs</b>				
1. Propene	0.48	0.83	-	-
2. Dichlorodifluoromethane (F-12)	0.40	1.98	-	-
3. Chlorodifluoromethane (F-22)	0.28	0.99	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.64	1.31	-	-
6. Isobutene	0.64	1.47	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	1.47	2.65	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.16	0.90	-	-
14. Pentane	4.02	11.86	-	-
15. Ethanol	0.50	0.94	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	1.79	4.25	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	<0.05	<0.17	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



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**Report No. : 2024-500001219 / 002-3 (Page 2 of 4)**

**Issued date : April 25, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

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**E-mail: :**

## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**

**SAMPLING DATE : April 4-5, 2024**

**SAMPLING LOCATION : Siam Yamato Steel Plant**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
29. Hexane	2.43	8.57	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	0.12	0.35	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.76	2.61	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.92	2.94	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	0.80	3.01	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500001219 / 002-3 (Page 3 of 4)**

**Issued date : April 25, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. :**

**Fax. :**

**E-mail: :**

## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**

**SAMPLING DATE : April 4-5, 2024**

**SAMPLING LOCATION : Siam Yamato Steel Plant**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	<0.05	<0.22	-	-
64. p,m-Xylene	<0.05	<0.22	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	<0.05	<0.21	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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**Report No. : 2024-500001219 / 002-3 (Page 4 of 4)**

**Issued date : April 25, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality  
**SAMPLING LOCATION :** Siam Yamato Steel Plant  
**LABORATORY NAME :** SGS (Thailand) Limited

**SAMPLING DATE :** April 4-5, 2024  
**SAMPLING BY :** [REDACTED]

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500001219 / 002-5 (Page 1 of 3)** Issued date : April 25, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** Ban Aow Pradoo  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** April 4-5, 2024  
**MEASURED BY :**

Location	TIME	April 4-5, 2024	
		WD	WS (m/s)
Ban Aow Pradoo	13:00-14:00	SSE	1.8
	14:00-15:00	SSE	2.2
	15:00-16:00	SSE	2.2
	16:00-17:00	SSE	2.2
	17:00-18:00	SSE	1.8
	18:00-19:00	SSE	1.8
	19:00-20:00	SSE	0.9
	20:00-21:00	S	0.9
	21:00-22:00	SSE	1.3
	22:00-23:00	SSW	1.3
	23:00-00:00	SW	1.3
	00:00-01:00	SW	1.3
	01:00-02:00	S	1.3
	02:00-03:00	SSW	0.9
	03:00-04:00	SSW	0.9
	04:00-05:00	SSE	0.9
	05:00-06:00	SSE	1.3
	06:00-07:00	SSE	1.3
	07:00-08:00	SSE	1.8
	08:00-09:00	SE	2.2
	09:00-10:00	SSE	1.8
	10:00-11:00	SSE	2.2
	11:00-12:00	SSE	2.7
	12:00-13:00	SSE	2.7

**Measurement Method :** - Wind speed and direction recording meter

**Remarks :** - WS = Wind Speed  
 - WD = Wind Direction

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**Report No. : 2024-500001219 / 002-5 (Page 2 of 3)** Issued date : April 25, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. [REDACTED] Fax. [REDACTED] E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** Ban Aow Pradoo  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** April 4-5, 2024  
**MEASURED BY :** [REDACTED]

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	4.17	-	-
SSE	8.33	33.33	25.00	-	-
S	4.17	4.17	-	-	-
SSW	8.33	4.17	-	-	-
SW	-	8.33	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
<b>CALM</b>	<b>0.00</b>				

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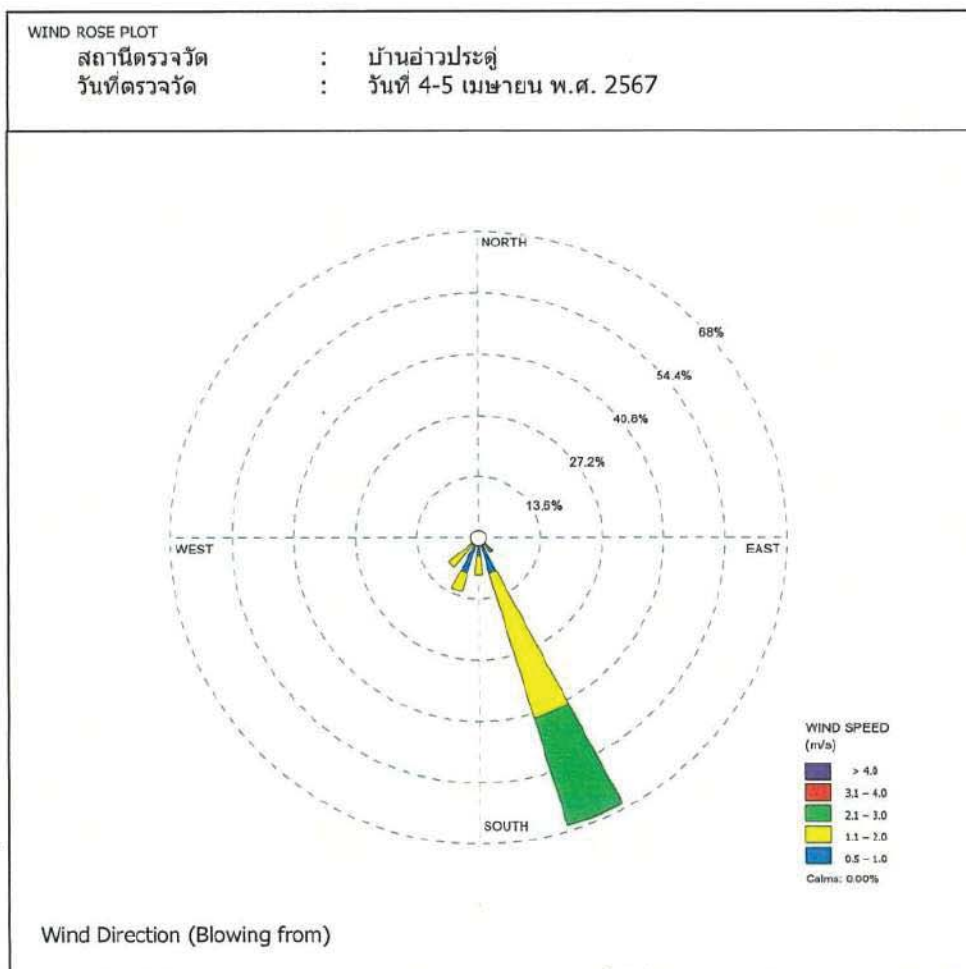
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**Report No. : 2024-500001219 / 002-5 (Page 3 of 3)** Issued date : April 25, 2024

**CLIENT** : INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT** :   
**ADDRESS** : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
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## Analysis Report

**SAMPLE DESIGNATED AS** : Wind Speed and Direction  
**MEASUREMENT LOCATION** : Ban Aow Pradoo  
**LABORATORY NAME** : SGS (Thailand) Limited  
**MEASUREMENT DATE** : April 4-5, 2024  
**MEASURED BY** :



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**Report No. : 2024-500001219 / 002-6 (Page 1 of 3)** Issued date : April 25, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** New CO Plant of BTC  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** April 4-5, 2024  
**MEASURED BY :**

Location	TIME	April 4-5, 2024	
		WD	WS (m/s)
New CO Plant of BTC	11:00-12:00	S	2.7
	12:00-13:00	S	2.7
	13:00-14:00	S	2.7
	14:00-15:00	S	2.7
	15:00-16:00	S	2.7
	16:00-17:00	S	2.7
	17:00-18:00	S	1.8
	18:00-19:00	E	2.2
	19:00-20:00	S	2.2
	20:00-21:00	S	1.3
	21:00-22:00	SSW	1.8
	22:00-23:00	S	2.2
	23:00-00:00	S	2.2
	00:00-01:00	S	2.2
	01:00-02:00	SSW	2.2
	02:00-03:00	S	2.7
	03:00-04:00	S	2.2
	04:00-05:00	S	1.8
	05:00-06:00	S	2.2
	06:00-07:00	SSW	1.8
	07:00-08:00	S	2.2
	08:00-09:00	SSE	2.7
	09:00-10:00	S	2.7
	10:00-11:00	SSW	2.7

**Measurement Method :** - Wind speed and direction recording meter

**Remarks :** - WS = Wind Speed  
 - WD = Wind Direction

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SGS (THAILAND) LIMITED



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**Report No. : 2024-500001219 / 002-6 (Page 2 of 3)** Issued date : April 25, 2024

**CLIENT** : INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT** :  
**ADDRESS** : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS** : Wind Speed and Direction  
**MEASUREMENT LOCATION** : New CO Plant of BTC  
**LABORATORY NAME** : SGS (Thailand) Limited  
**MEASUREMENT DATE** : April 4-5, 2024  
**MEASURED BY** :

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	4.17	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	4.17	-	-
S	-	12.50	62.50	-	-
SSW	-	8.33	8.33	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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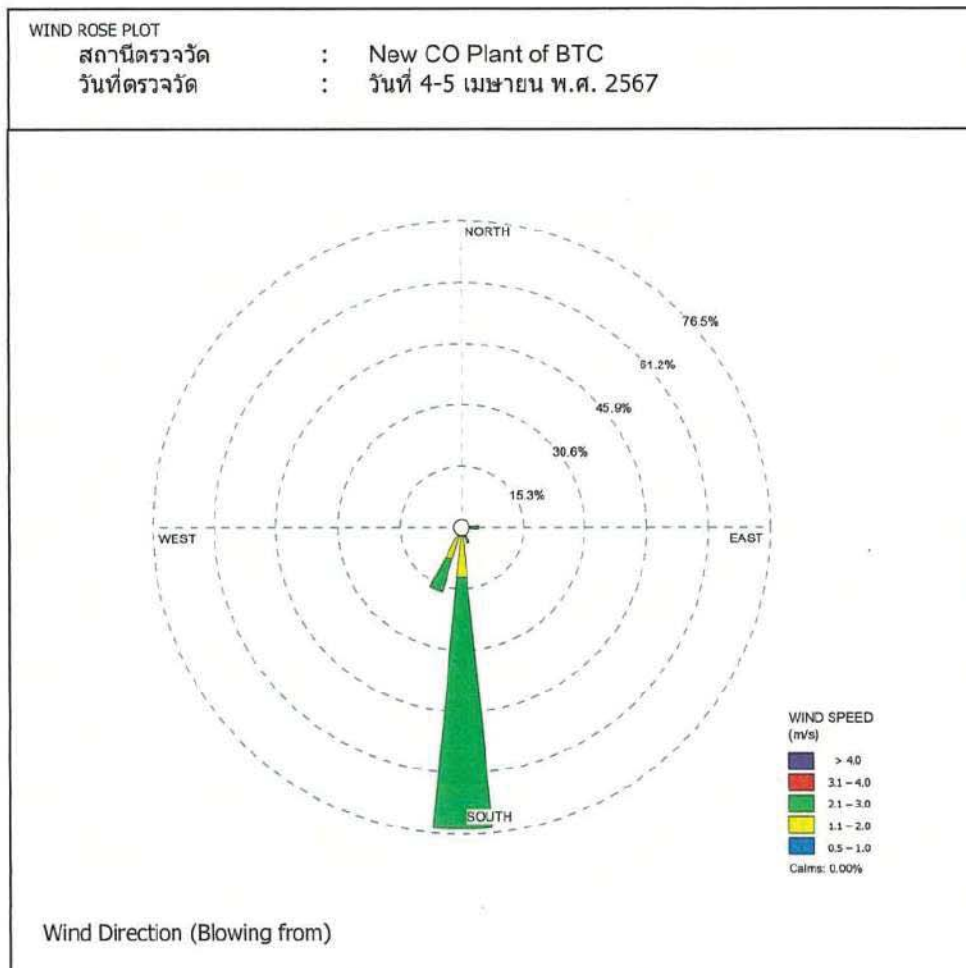
E 280325

**Report No. : 2024-500001219 / 002-6 (Page 3 of 3)** Issued date : April 25, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. [REDACTED] Fax. [REDACTED] E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** New CO Plant of BTC  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** April 4-5, 2024  
**MEASURED BY :** [REDACTED]



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**Report No. : 2024-500001219 / 002-7 (Page 1 of 3)**

**Issued date : April 25, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. Fax. E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS : Wind Speed and Direction**

**MEASUREMENT DATE : April 4-5, 2024**

**MEASUREMENT LOCATION : Siam Yamato Steel Plant**

**MEASURED BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Location	TIME	April 4-5, 2024	
		WD	WS (m/s)
Siam Yamato Steel Plant	12:00-13:00	SSW	3.1
	13:00-14:00	S	3.1
	14:00-15:00	SSW	2.7
	15:00-16:00	SSW	2.7
	16:00-17:00	SSE	2.7
	17:00-18:00	S	2.7
	18:00-19:00	S	2.2
	19:00-20:00	S	2.2
	20:00-21:00	S	1.8
	21:00-22:00	SW	1.8
	22:00-23:00	SW	1.8
	23:00-00:00	SSW	2.2
	00:00-01:00	S	1.8
	01:00-02:00	S	1.8
	02:00-03:00	S	1.8
	03:00-04:00	S	1.8
	04:00-05:00	SSW	1.8
	05:00-06:00	SSW	2.2
	06:00-07:00	S	2.7
	07:00-08:00	SSW	2.7
	08:00-09:00	S	2.7
	09:00-10:00	S	2.2
	10:00-11:00	SSW	2.2
	11:00-12:00	S	2.7

**Measurement Method : - Wind speed and direction recording meter**

**Remarks : - WS = Wind Speed  
- WD = Wind Direction**

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**Report No. : 2024-500001219 / 002-7 (Page 2 of 3)**

**Issued date : April 25, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. Fax. E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS : Wind Speed and Direction**

**MEASUREMENT DATE : April 4-5, 2024**

**MEASUREMENT LOCATION : Siam Yamato Steel Plant**

**MEASURED BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	4.17	-	-
S	-	20.83	29.17	4.17	-
SSW	-	4.17	25.00	4.17	-
SW	-	8.33	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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**Report No. : 2024-500001219 / 002-7 (Page 3 of 3)**

**Issued date : April 25, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. : Fax. : E-mail:**

## Analysis Report

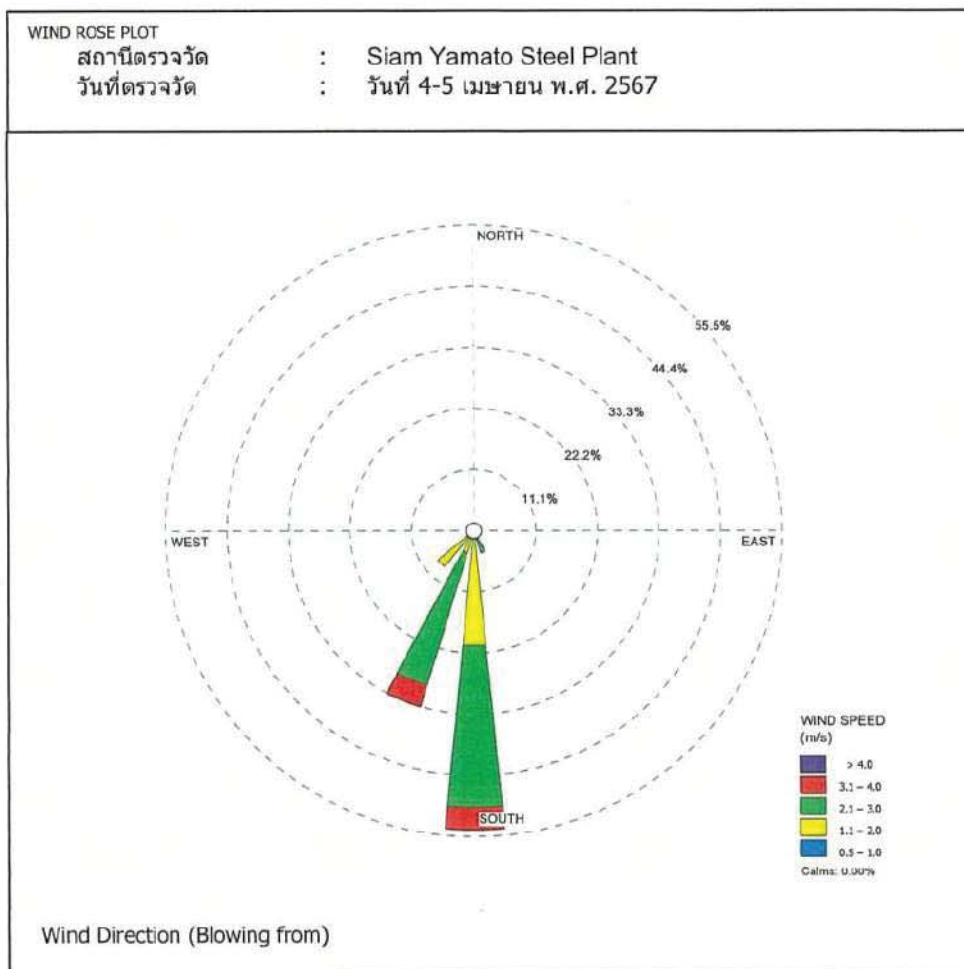
**SAMPLE DESIGNATED AS : Wind Speed and Direction**

**MEASUREMENT DATE : April 4-5, 2024**

**MEASUREMENT LOCATION : Siam Yamato Steel Plant**

**MEASURED BY :**

**LABORATORY NAME : SGS (Thailand) Limited**



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**Report No. : 2024-500001524-2 / 001-1 (Page 1 of 4)**

**Issued date : June 14, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. :**

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**E-mail: :**

## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**

**SAMPLING DATE : May 27-28, 2024**

**SAMPLING LOCATION : Ban Aow Pradoo**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs</b>				
1. Propene	0.36	0.62	-	-
2. Dichlorodifluoromethane (F-12)	0.38	1.88	-	-
3. Chlorodifluoromethane (F-22)	0.30	1.06	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.68	1.39	-	-
6. Isobutene	0.84	1.92	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.18	0.40	5.3	-
9. Acetaldehyde	2.60	4.68	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.22	1.24	-	-
14. Pentane	2.68	7.91	-	-
15. Ethanol	2.30	4.33	-	-
16. Isoprene	0.86	2.38	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	3.33	7.91	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	0.25	0.70	-	-
27. Dichloromethane	0.12	0.42	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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E 282028

**Report No. : 2024-500001524-2 / 001-1 (Page 2 of 4)**

**Issued date : June 14, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
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**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** May 27-28, 2024  
**SAMPLING LOCATION :** Ban Aow Pradoo **SAMPLING BY :** [REDACTED]  
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
29. Hexane	0.46	1.62	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.18	0.62	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.20	0.64	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	0.28	1.06	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.  
**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).  
 \*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



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E 282029

**Report No. : 2024-500001524-2 / 001-1 (Page 3 of 4)**

**Issued date : June 14, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

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**Tel. :**

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**E-mail: :**

## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**

**SAMPLING DATE : May 27-28, 2024**

**SAMPLING LOCATION : Ban Aow Pradoo**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.11	0.46	-	-
64. p,m-Xylene	0.11	0.46	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	0.15	0.62	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500001524-2 / 001-1 (Page 4 of 4)**

**Issued date : June 14, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
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**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality  
**SAMPLING LOCATION :** Ban Aow Pradoo  
**LABORATORY NAME :** SGS (Thailand) Limited

**SAMPLING DATE :** May 27-28, 2024  
**SAMPLING BY :** [REDACTED]

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ( $\mu\text{g}/\text{m}^3$ )	Standard** ( $\mu\text{g}/\text{m}^3$ )
	(ppm)	( $\text{mg}/\text{m}^3$ )		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.  
**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).  
 \*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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E 282031

**Report No. : 2024-500001524-2 / 001-2 (Page 1 of 4)**

**Issued date : June 14, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

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**Fax. :**

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## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**

**SAMPLING DATE : May 27-28, 2024**

**SAMPLING LOCATION : New CO Plant of BTC**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m <sup>3</sup> )	Standard** (µg/m <sup>3</sup> )
	(ppb)	(µg/m <sup>3</sup> )		
<b>VOCs</b>				
1. Propene	0.32	0.55	-	-
2. Dichlorodifluoromethane (F-12)	0.36	1.78	-	-
3. Chlorodifluoromethane (F-22)	0.32	1.13	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.68	1.39	-	-
6. Isobutene	1.28	2.93	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.80	1.77	5.3	-
9. Acetaldehyde	2.00	3.61	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	2.52	9.79	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.20	1.12	-	-
14. Pentane	1.04	3.07	-	-
15. Ethanol	0.40	0.75	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	2.28	5.42	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.12	0.42	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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E 282032

Report No. : 2024-500001524-2 / 001-2 (Page 2 of 4)

Issued date : June 14, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.

CONTACT : [REDACTED]

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Tel. [REDACTED] Fax. [REDACTED] E-mail [REDACTED]

## Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)

SAMPLING DATE : May 27-28, 2024

SAMPLING LOCATION : New CO Plant of BTC

SAMPLING BY : [REDACTED]

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
29. Hexane	0.20	0.70	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	<0.05	<0.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	2.48	7.92	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	1.64	6.18	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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E 282033

**Report No. : 2024-500001524-2 / 001-2 (Page 3 of 4)**

**Issued date : June 14, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. :**

**Fax. :**

**E-mail: :**

## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**

**SAMPLING DATE : May 27-28, 2024**

**SAMPLING LOCATION : New CO Plant of BTC**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ( $\mu\text{g}/\text{m}^3$ )	Standard** ( $\mu\text{g}/\text{m}^3$ )
	(ppb)	( $\mu\text{g}/\text{m}^3$ )		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	<0.05	<0.22	-	-
64. p,m-Xylene	9.04	39.25	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	0.56	2.39	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500001524-2 / 001-2 (Page 4 of 4)**

**Issued date : June 14, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. Fax. E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality**

**SAMPLING DATE : May 27-28, 2024**

**SAMPLING LOCATION : New CO Plant of BTC**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ( $\mu\text{g}/\text{m}^3$ )	Standard** ( $\mu\text{g}/\text{m}^3$ )
	(ppm)	( $\text{mg}/\text{m}^3$ )		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500001524-2 / 001-3 (Page 1 of 4)**

**Issued date : June 14, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. :**

**Fax :**

**E-mail: :**

## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**

**SAMPLING DATE : May 27-28, 2024**

**SAMPLING LOCATION : Siam Yamato Steel Plant**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs</b>				
1. Propene	0.32	0.55	-	-
2. Dichlorodifluoromethane (F-12)	0.40	1.98	-	-
3. Chlorodifluoromethane (F-22)	0.40	1.41	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.68	1.39	-	-
6. Isobutene	0.36	0.82	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.16	0.35	5.3	-
9. Acetaldehyde	2.12	3.82	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.20	1.12	-	-
14. Pentane	1.36	4.01	-	-
15. Ethanol	0.60	1.13	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	3.12	7.41	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	0.08	0.28	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500001524-2 / 001-3 (Page 2 of 4)**

**Issued date : June 14, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. :**

**Fax. :**

**E-mail: :**

## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)**

**SAMPLING DATE : May 27-28, 2024**

**SAMPLING LOCATION : Siam Yamato Steel Plant**

**SAMPLING BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
29. Hexane	0.24	0.85	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	<0.05	<0.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.12	0.38	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	0.20	0.75	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500001524-2 / 001-3 (Page 3 of 4)**

**Issued date : June 14, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** **Fax. :** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** May 27-28, 2024  
**SAMPLING LOCATION :** Siam Yamato Steel Plant **SAMPLING BY :**   
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	<0.05	<0.22	-	-
64. p,m-Xylene	<0.05	<0.22	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	<0.05	<0.21	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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**Report No. : 2024-500001524-2 / 001-3 (Page 4 of 4)**

**Issued date : June 14, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.

**CONTACT :**

**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate. T. Map Ta Phut, A. Muang, Rayong 21150

Tel. [REDACTED]

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E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality

**SAMPLING DATE :** May 27-28, 2024

**SAMPLING LOCATION :** Siam Yamato Steel Plant

**SAMPLING BY :** [REDACTED]

**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* ( $\mu\text{g}/\text{m}^3$ )	Standard** ( $\mu\text{g}/\text{m}^3$ )
	(ppm)	( $\text{mg}/\text{m}^3$ )		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

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**Report No. : 2024-500001524-2 / 001-5 (Page 1 of 3)** Issued date : June 14, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** Ban Aow Pradoo  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** May 27-28, 2024  
**MEASURED BY :**

Location	TIME	May 27-28, 2024	
		WD	WS (m/s)
Ban Aow Pradoo	11:00-12:00	W	2.2
	12:00-13:00	W	2.2
	13:00-14:00	SSW	3.1
	14:00-15:00	SSW	2.2
	15:00-16:00	S	2.7
	16:00-17:00	S	2.7
	17:00-18:00	S	2.2
	18:00-19:00	SSW	2.2
	19:00-20:00	SSW	2.7
	20:00-21:00	SSW	2.2
	21:00-22:00	SSW	2.2
	22:00-23:00	S	2.2
	23:00-00:00	S	2.7
	00:00-01:00	SSW	2.2
	01:00-02:00	W	1.8
	02:00-03:00	W	2.2
	03:00-04:00	W	2.7
	04:00-05:00	WNW	2.2
	05:00-06:00	W	2.7
	06:00-07:00	W	2.7
	07:00-08:00	WNW	2.2
	08:00-09:00	WNW	1.3
	09:00-10:00	W	2.2
	10:00-11:00	W	2.7

**Measurement Method :** - Wind speed and direction recording meter

**Remarks :** - WS = Wind Speed  
 - WD = Wind Direction

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**Report No. : 2024-500001524-2 / 001-5 (Page 2 of 3)** Issued date : June 14, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
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 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : May 27-28, 2024  
 MEASUREMENT LOCATION : Ban Aow Pradoo MEASURED BY :   
 LABORATORY NAME : SGS (Thailand) Limited

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	20.83	-	-
SSW	-	-	25.00	4.17	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	4.17	33.33	-	-
WNW	-	4.17	8.33	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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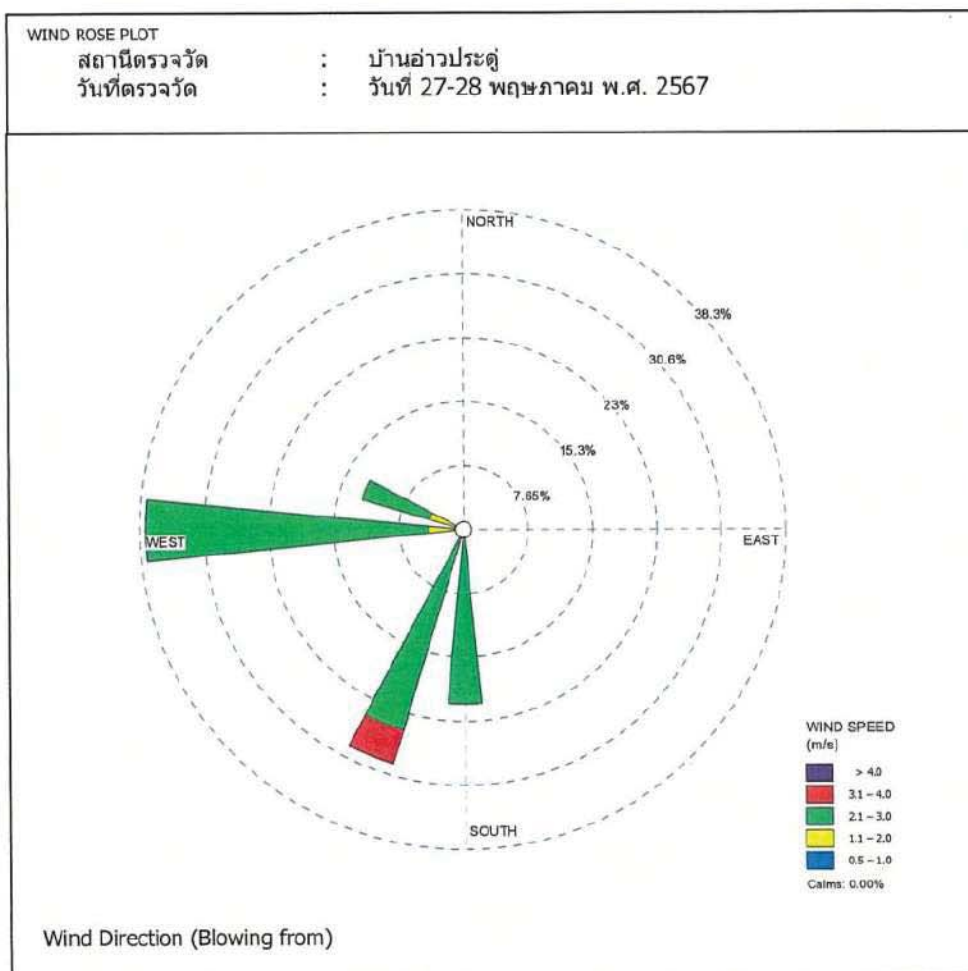
E 282045

**Report No. : 2024-500001524-2 / 001-5 (Page 3 of 3)** Issued date : June 14, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel.   
 Fax.   
 E-mail

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** Ban Aow Pradoo  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** May 27-28, 2024  
**MEASURED BY :**



TY/RS/SV/SV



SGS (THAILAND) LIMITED

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E 282046

**Report No. : 2024-500001524-2 / 001-6 (Page 1 of 3)** Issued date : June 14, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. [REDACTED] Fax. [REDACTED] E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** New CO Plant of BTC  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** May 27-28, 2024  
**MEASURED BY :** [REDACTED]

Location	TIME	May 27-28, 2024	
		WD	WS (m/s)
New CO Plant of BTC	10:00-11:00	SSW	1.8
	11:00-12:00	SSW	1.8
	12:00-13:00	SW	2.2
	13:00-14:00	SSW	2.2
	14:00-15:00	SSW	1.8
	15:00-16:00	S	1.8
	16:00-17:00	SSE	1.8
	17:00-18:00	S	1.8
	18:00-19:00	S	1.3
	19:00-20:00	S	1.3
	20:00-21:00	S	1.8
	21:00-22:00	SSW	1.3
	22:00-23:00	WSW	1.8
	23:00-00:00	SW	1.8
	00:00-01:00	SW	1.3
	01:00-02:00	SW	1.3
	02:00-03:00	SSW	1.3
	03:00-04:00	SW	1.3
	04:00-05:00	SW	0.9
	05:00-06:00	SSW	0.9
	06:00-07:00	SW	0.9
	07:00-08:00	WSW	0.9
	08:00-09:00	SW	1.8
	09:00-10:00	SSW	1.8

**Measurement Method :** - Wind speed and direction recording meter

**Remarks :** - WS = Wind Speed  
 - WD = Wind Direction

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E 282047

**Report No. : 2024-500001524-2 / 001-6 (Page 2 of 3)** Issued date : June 14, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** New CO Plant of BTC  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** May 27-28, 2024  
**MEASURED BY :**

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	4.17	-	-	-
S	-	20.83	-	-	-
SSW	4.17	25.00	4.17	-	-
SW	8.33	20.83	4.17	-	-
WSW	4.17	4.17	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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SGS (THAILAND) LIMITED



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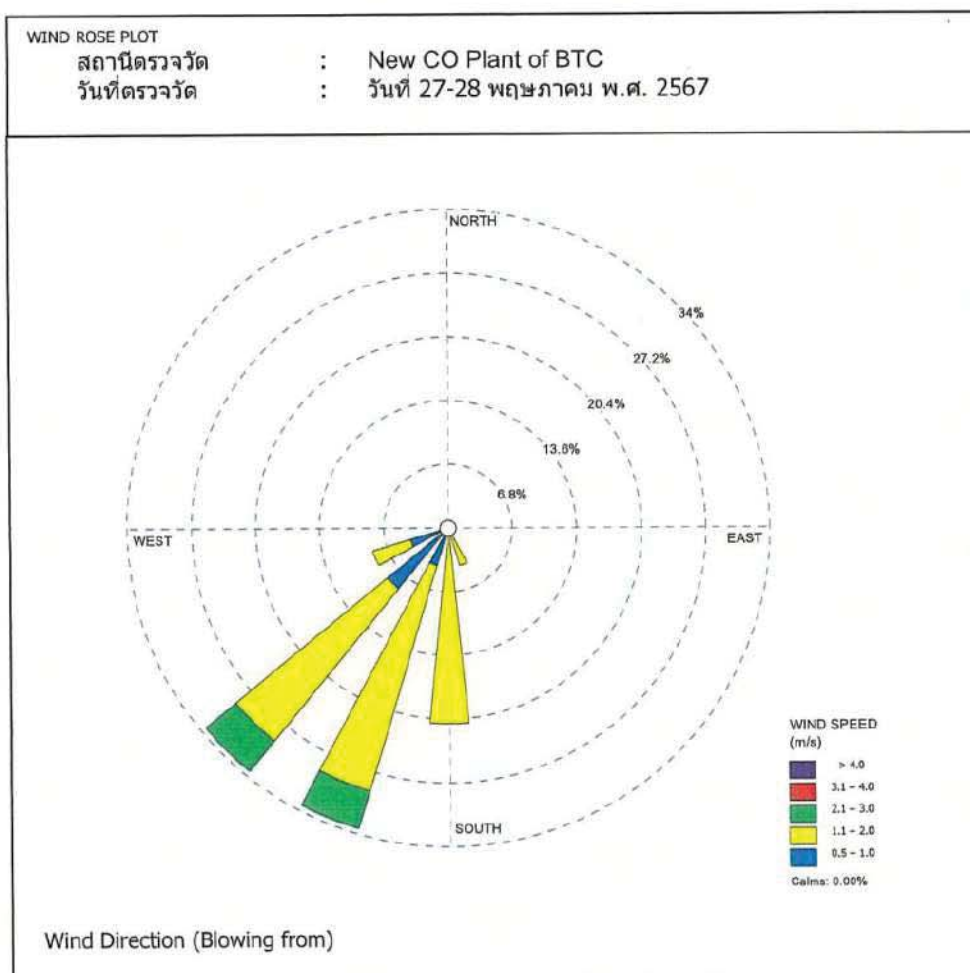
E 282048

**Report No. : 2024-500001524-2 / 001-6 (Page 3 of 3)** Issued date : June 14, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** **Fax. :** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** New CO Plant of BTC  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** May 27-28, 2024  
**MEASURED BY :**



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SGS (THAILAND) LIMITED

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E 282049

**Report No. : 2024-500001524-2 / 001-7 (Page 1 of 3) Issued date : June 14, 2024**

**CLIENT** : INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT** :   
**ADDRESS** : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS** : Wind Speed and Direction  
**MEASUREMENT LOCATION** : Siam Yamato Steel Plant  
**LABORATORY NAME** : SGS (Thailand) Limited  
**MEASUREMENT DATE** : May 27-28, 2024  
**MEASURED BY** :

Location	TIME	May 27-28, 2024	
		WD	WS (m/s)
Siam Yamato Steel Plant	11:00-12:00	S	2.2
	12:00-13:00	SSW	2.2
	13:00-14:00	SSW	2.7
	14:00-15:00	S	2.7
	15:00-16:00	S	2.2
	16:00-17:00	SSW	2.2
	17:00-18:00	SSW	2.7
	18:00-19:00	S	2.7
	19:00-20:00	S	2.2
	20:00-21:00	SSW	2.2
	21:00-22:00	SSW	1.8
	22:00-23:00	S	1.8
	23:00-00:00	SSW	1.8
	00:00-01:00	S	1.8
	01:00-02:00	SW	2.2
	02:00-03:00	W	1.8
	03:00-04:00	W	1.8
	04:00-05:00	W	2.2
	05:00-06:00	WNW	2.2
	06:00-07:00	WNW	2.2
	07:00-08:00	WNW	2.2
	08:00-09:00	W	2.7
	09:00-10:00	W	2.7
	10:00-11:00	WNW	2.2

**Measurement Method :** - Wind speed and direction recording meter

**Remarks :** - WS = Wind Speed  
 - WD = Wind Direction

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SGS (THAILAND) LIMITED



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E 282050

**Report No. : 2024-500001524-2 / 001-7 (Page 2 of 3)** Issued date : June 14, 2024

**CLIENT** : INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT** :   
**ADDRESS** : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS** : Wind Speed and Direction  
**MEASUREMENT LOCATION** : Siam Yamato Steel Plant  
**LABORATORY NAME** : SGS (Thailand) Limited  
**MEASUREMENT DATE** : May 27-28, 2024  
**MEASURED BY** :

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	8.33	20.83	-	-
SSW	-	8.33	20.83	-	-
SW	-	-	4.17	-	-
WSW	-	-	-	-	-
W	-	8.33	12.50	-	-
WNW	-	-	16.67	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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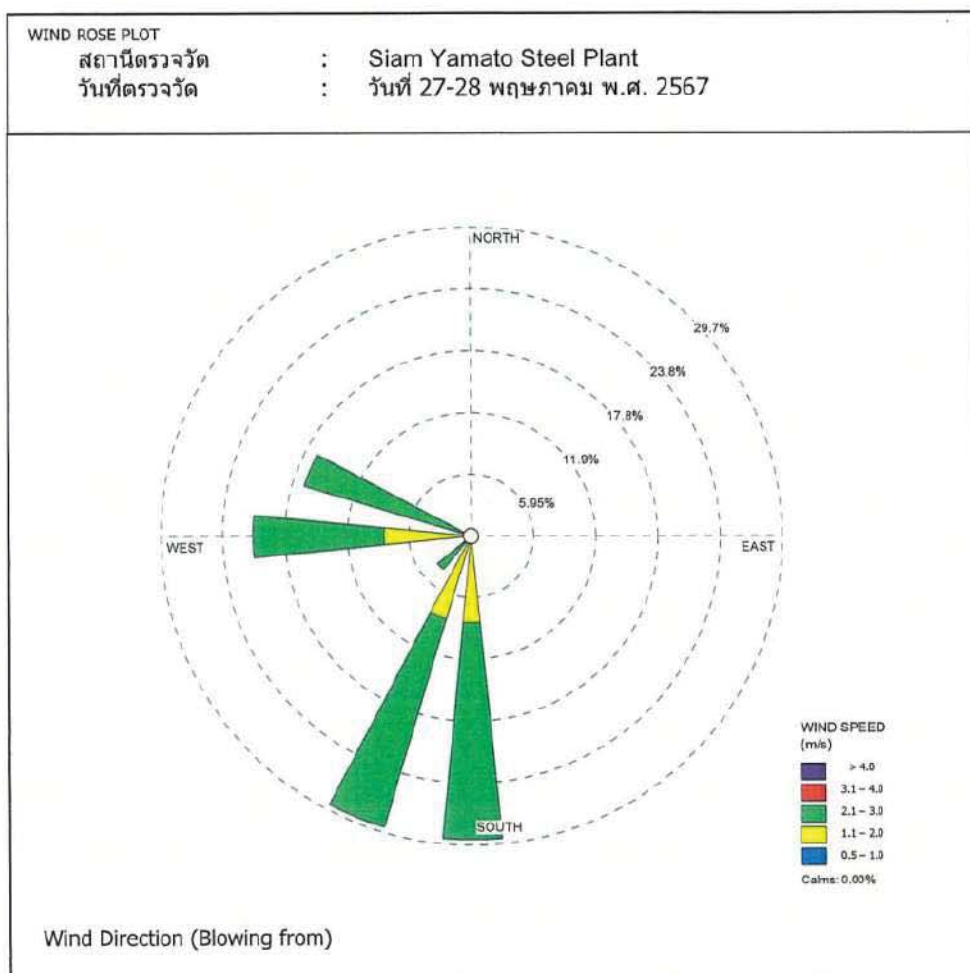
E 282051

**Report No. : 2024-500001524-2 / 001-7 (Page 3 of 3) Issued date : June 14, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. [REDACTED] Fax. [REDACTED] E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** Siam Yamato Steel Plant  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** May 27-28, 2024  
**MEASURED BY :** [REDACTED]



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SGS (THAILAND) LIMITED



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E 282052

Report No. : 2024-500001648 / 002-1 (Page 1 of 4)

Issued date : July 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
CONTACT :   
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : June 24-25, 2024  
SAMPLING LOCATION : Ban Aow Pradoo SAMPLING BY :   
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs</b>				
1. Propene	0.85	1.46	-	-
2. Dichlorodifluoromethane (F-12)	0.24	1.16	-	-
3. Chlorodifluoromethane (F-22)	0.20	0.69	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.41	0.84	-	-
6. Isobutene	<0.05	<0.11	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	1.72	3.09	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	<0.05	<0.28	-	-
14. Pentane	1.21	3.57	-	-
15. Ethanol	4.65	8.76	-	-
16. Isoprene	0.29	0.81	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	2.46	5.84	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	0.13	0.36	-	-
27. Dichloromethane	0.14	0.49	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.  
**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).  
\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



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E 283256

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t +66 (0)2 678 18 13 f +66 (0)2 678 06 22 www.sgs.com

Report No. : 2024-500001648 / 002-1 (Page 2 of 4)

Issued date : July 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister) SAMPLING DATE : June 24-25, 2024  
 SAMPLING LOCATION : Ban Aow Pradoo SAMPLING BY :   
 LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
29. Hexane	0.92	3.24	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	<0.05	<0.15	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	<0.05	<0.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	<0.05	<0.16	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	0.62	2.32	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.  
 Sources: \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).  
 \*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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E 283257

**Report No. : 2024-500001648 / 002-1 (Page 3 of 4)**

**Issued date : July 11, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** June 24-25, 2024  
**SAMPLING LOCATION :** Ban Aow Pradoo **SAMPLING BY :** [REDACTED]  
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	<0.05	<0.22	-	-
64. p,m-Xylene	<0.05	<0.22	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	<0.05	<0.21	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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E 283258

**Report No. : 2024-500001648 / 002-1 (Page 4 of 4)**

**Issued date :** July 11, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. Fax. E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality  
**SAMPLING LOCATION :** Ban Aow Pradoo  
**LABORATORY NAME :** SGS (Thailand) Limited

**SAMPLING DATE :** June 24-25, 2024  
**SAMPLING BY :**

Parameter	Analytical Value (avg-24 hr)		Surveillant value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.  
**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).  
 \*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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SGS (THAILAND) LIMITED



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E 283259

**Report No. : 2024-500001648 / 002-2 (Page 1 of 4)**

**Issued date :** July 11, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** June 24-25, 2024  
**SAMPLING LOCATION :** New CO Plant of BTC **SAMPLING BY :** [REDACTED]  
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant Value* (µg/m <sup>3</sup> )	Standard** (µg/m <sup>3</sup> )
	(ppb)	(µg/m <sup>3</sup> )		
<b>VOCs</b>				
1. Propene	1.23	2.12	-	-
2. Dichlorodifluoromethane (F-12)	0.20	0.99	-	-
3. Chlorodifluoromethane (F-22)	0.20	0.71	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.40	0.82	-	-
6. Isobutene	3.18	7.28	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	0.76	1.68	5.3	-
9. Acetaldehyde	1.39	2.51	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	0.12	0.47	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.12	0.67	-	-
14. Pentane	1.27	3.75	-	-
15. Ethanol	0.40	0.75	-	-
16. Isoprene	0.08	0.22	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	1.11	2.64	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	<0.05	<0.14	-	-
27. Dichloromethane	<0.05	<0.17	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.  
**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).  
 \*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



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E 283260

**Report No. : 2024-500001648 / 002-2 (Page 2 of 4)**

**Issued date : July 11, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister)  
**SAMPLING LOCATION :** New CO Plant of BTC  
**LABORATORY NAME :** SGS (Thailand) Limited

**SAMPLING DATE :** June 24-25, 2024  
**SAMPLING BY :** [REDACTED]

Parameter	Analytical Value (avg-24 hr)		Surveillant Value* (µg/m <sup>3</sup> )	Standard** (µg/m <sup>3</sup> )
	(ppb)	(µg/m <sup>3</sup> )		
<b>VOCs (Cont.)</b>				
29. Hexane	0.24	0.85	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	0.16	0.47	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	0.12	0.41	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.24	0.77	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	1.07	4.03	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

SGS (THAILAND) LIMITED

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E 283261

**Report No. : 2024-500001648 / 002-2 (Page 3 of 4)**

**Issued date :** July 11, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** June 24-25, 2024  
**SAMPLING LOCATION :** New CO Plant of BTC **SAMPLING BY :** [REDACTED]  
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant Value* (µg/m <sup>3</sup> )	Standard** (µg/m <sup>3</sup> )
	(ppb)	(µg/m <sup>3</sup> )		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.32	1.39	-	-
64. p,m-Xylene	0.80	3.47	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	2.51	10.69	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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SGS (THAILAND) LIMITED



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E 283262

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**Report No. : 2024-500001648 / 002-2 (Page 4 of 4)**

**Issued date : July 11, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. Fax. E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS : Ambient Air Quality**  
**SAMPLING LOCATION : New CO Plant of BTC**  
**LABORATORY NAME : SGS (Thailand) Limited**

**SAMPLING DATE : June 24-25, 2024**

**SAMPLING BY :**

Parameter	Analytical Value (avg-24 hr)		Surveillant Value* (µg/m³)	Standard** (µg/m³)
	(ppm)	(mg/m³)		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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E 283263

**Report No. : 2024-500001648 / 002-3 (Page 1 of 4)**

**Issued date : July 11, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister)  
**SAMPLING LOCATION :** In front of Siam Yamato Steel Plant  
**LABORATORY NAME :** SGS (Thailand) Limited  
**SAMPLING DATE :** June 24-25, 2024  
**SAMPLING BY :** [REDACTED]

Parameter	Analytical Value (avg-24 hr)		Surveillant Value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs</b>				
1. Propene	1.15	1.98	-	-
2. Dichlorodifluoromethane (F-12)	0.16	0.79	-	-
3. Chlorodifluoromethane (F-22)	0.16	0.57	-	-
4. 1,2-dichlorotetrafluoroethane (F-114)	<0.05	<0.35	-	-
5. Chloromethane	0.40	0.82	-	-
6. Isobutene	<0.05	<0.11	-	-
7. Vinyl Chloride	<0.05	<0.13	20	-
8. 1,3-Butadiene (Butadiene)	<0.05	<0.11	5.3	-
9. Acetaldehyde	0.92	1.66	860	-
10. Methanol	<0.10	<0.13	-	-
11. Bromomethane	<0.05	<0.19	190	-
12. Ethyl Chloride	<0.05	<0.13	-	-
13. Trichloromonofluoromethane	0.12	0.67	-	-
14. Pentane	1.63	4.81	-	-
15. Ethanol	0.40	0.75	-	-
16. Isoprene	<0.05	<0.14	-	-
17. 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)	<0.05	<0.38	-	-
18. Acrolein	<0.10	<0.23	0.55	-
19. 1,1-dichloroethene	<0.05	<0.20	-	-
20. Propanal	<0.05	<0.12	-	-
21. Acetone	1.71	4.06	-	-
22. Iodomethane	<0.05	<0.29	-	-
23. Carbondisulfide	<0.05	<0.16	-	100
24. Isopropanol	<0.05	<0.12	-	-
25. Acetonitrile	<0.05	<0.08	-	-
26. Cyclopentane	0.16	0.46	-	-
27. Dichloromethane	<0.05	<0.17	210	-
28. 2-methoxy-2-methyl-propane (Methyl Tert-Butyl Ether)	<0.05	<0.18	-	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.  
**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).  
 \*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



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E 283264

Report No. : 2024-500001648 / 002-3 (Page 2 of 4)

Issued date : July 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
CONTACT :  
ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality (VOCs by Canister)  
SAMPLING LOCATION : In front of Siam Yamato Steel Plant  
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : June 24-25, 2024  
SAMPLING BY :

Parameter	Analytical Value (avg-24 hr)		Surveillant Value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
VOCs (Cont.)				
29. Hexane	0.36	1.27	-	-
30. Methacrolein	<0.05	<0.14	-	-
31. 1,1-dichloroethane	<0.05	<0.20	-	-
32. Vinyl Acetate	<0.05	<0.18	-	-
33. 1-Propanol	<0.05	<0.12	-	-
34. Butanal	<0.10	<0.29	-	-
35. Methyl Vinyl Ketone	<0.05	<0.14	-	-
36. cis-1,2-dichloroethene	<0.05	<0.20	-	-
37. Methyl Ethyl Ketone	0.16	0.47	-	-
38. Chloroform	<0.05	<0.24	57	-
39. Cyclohexane	<0.05	<0.17	-	-
40. 1,1,1-trichloroethane	<0.05	<0.27	-	-
41. Carbon Tetrachloride	<0.05	<0.31	150	-
42. Benzene	0.20	0.64	7.6	-
43. 1,2-dichloroethane (EDC)	<0.05	<0.20	48	-
44. Trichloroethylene	<0.05	<0.27	130	-
45. 1-Butanol	<0.10	<0.30	-	-
46. 2-Pentanone	<0.05	<0.18	-	-
47. 1,2-dichloropropane	<0.05	<0.23	82	-
48. Pentanal	<0.05	<0.18	-	-
49. 3-Pentanone	<0.05	<0.18	-	-
50. 1,4-Dioxane	<0.05	<0.18	860	-
51. Bromodichloromethane	<0.05	<0.33	-	-
52. tran-1,3-dichloropropane	<0.05	<0.22	-	-
53. Methyl Isobutyl Ketone	<0.05	<0.20	-	-
54. Toluene	0.36	1.36	-	-
55. cis-1,3-dichloropropane	<0.05	<0.22	-	-
56. 1,1,2-trichloroethane	<0.05	<0.27	-	-
57. Tetrachloroethylene	<0.05	<0.34	400	-
58. 3-Hexanone	<0.05	<0.20	-	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

Sources: \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).



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E 283265

**Report No. : 2024-500001648 / 002-3 (Page 3 of 4)**

**Issued date : July 11, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail :** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality (VOCs by Canister) **SAMPLING DATE :** June 24-25, 2024  
**SAMPLING LOCATION :** In front of Siam Yamato Steel Plant **SAMPLING BY :** [REDACTED]  
**LABORATORY NAME :** SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr)		Surveillant Value* (µg/m³)	Standard** (µg/m³)
	(ppb)	(µg/m³)		
<b>VOCs (Cont.)</b>				
59. 2-Hexanone	<0.05	<0.20	-	-
60. Hexanal	<0.05	<0.20	-	-
61. 1,2-dibromoethane	<0.05	<0.38	370	-
62. Chlorobenzene	<0.05	<0.23	-	-
63. Ethylbenzene	0.08	0.35	-	-
64. p,m-Xylene	<0.05	<0.22	-	-
65. o-Xylene	<0.05	<0.22	-	-
66. Styrene	0.08	0.34	-	-
67. Tribromomethane	<0.05	<0.52	-	-
68. 1,1,2,2-tetrachloroethane	<0.05	<0.34	83	-
69. 1,3,5-trimethylbenzene	<0.05	<0.25	-	-
70. 1,2,4-trimethylbenzene	<0.05	<0.25	-	-
71. 1,3-dichlorobenzene	<0.05	<0.30	-	-
72. 1,4- dichlorobenzene	<0.05	<0.30	1,100	-
73. 1,2,3-trimethylbenzene	<0.05	<0.25	-	-
74. Benzyl Chloride	<0.05	<0.26	12	-
75. 1,2-dichlorobenzene	<0.05	<0.30	-	-
76. 1,2,4-trichlorobenzene	<0.05	<0.37	-	-
77. Acrylonitrile	<0.05	<0.11	10	-

**Remark:** - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.

**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).

\*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500001648 / 002-3 (Page 4 of 4)**

**Issued date : July 11, 2024**

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel.   
 Fax.   
 E-mail:

## Analysis Report

**SAMPLE DESIGNATED AS :** Ambient Air Quality  
**SAMPLING LOCATION :** In front of Siam Yamato Steel Plant  
**LABORATORY NAME :** SGS (Thailand) Limited

**SAMPLING DATE :** June 24-25, 2024  
**SAMPLING BY :**

Parameter	Analytical Value (avg-24 hr)		Surveillant Value* (µg/m <sup>3</sup> )	Standard** (µg/m <sup>3</sup> )
	(ppm)	(mg/m <sup>3</sup> )		
Alpha Methyl Styrene	<0.01	<0.04	-	-

**Remark:** - Sampling and analytical technique of Alpha Methyl Styrene based on NIOSH 1501.  
**Sources:** \* Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).  
 \*\* Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230D, dated September 20, B.E. 2560 (2017).

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**Report No. : 2024-500001648 / 002-5 (Page 1 of 3)** Issued date : July 11, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** **Fax. :** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** Ban Aow Pradoo  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** June 24-25, 2024  
**MEASURED BY :**

Location	TIME	June 24-25, 2024	
		WD	WS (m/s)
Ban Aow Pradoo	11:00-12:00	WSW	1.8
	12:00-13:00	SW	1.8
	13:00-14:00	SW	1.8
	14:00-15:00	SW	1.3
	15:00-16:00	SSW	1.3
	16:00-17:00	SW	1.3
	17:00-18:00	WSW	1.8
	18:00-19:00	WSW	1.8
	19:00-20:00	SW	1.8
	20:00-21:00	SW	1.8
	21:00-22:00	WSW	1.8
	22:00-23:00	WSW	2.2
	23:00-00:00	SW	1.3
	00:00-01:00	WSW	0.9
	01:00-02:00	W	0.9
	02:00-03:00	WSW	1.3
	03:00-04:00	WSW	0.9
	04:00-05:00	SSW	0.9
	05:00-06:00	S	0.9
	06:00-07:00	SE	0.9
	07:00-08:00	S	0.9
	08:00-09:00	SW	1.3
	09:00-10:00	SSE	0.9
	10:00-11:00	SSE	0.9

**Measurement Method :** - Wind speed and direction recording meter

**Remarks :** - WS = Wind Speed  
 - WD = Wind Direction

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**Report No. : 2024-500001648 / 002-5 (Page 2 of 3)** Issued date : July 11, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** **Fax. :** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** Ban Aow Pradoo  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** June 24-25, 2024  
**MEASURED BY :**

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	4.17	-	-	-	-
SSE	8.33	-	-	-	-
S	8.33	-	-	-	-
SSW	4.17	4.17	-	-	-
SW	-	33.33	-	-	-
WSW	8.33	20.83	4.17	-	-
W	4.17	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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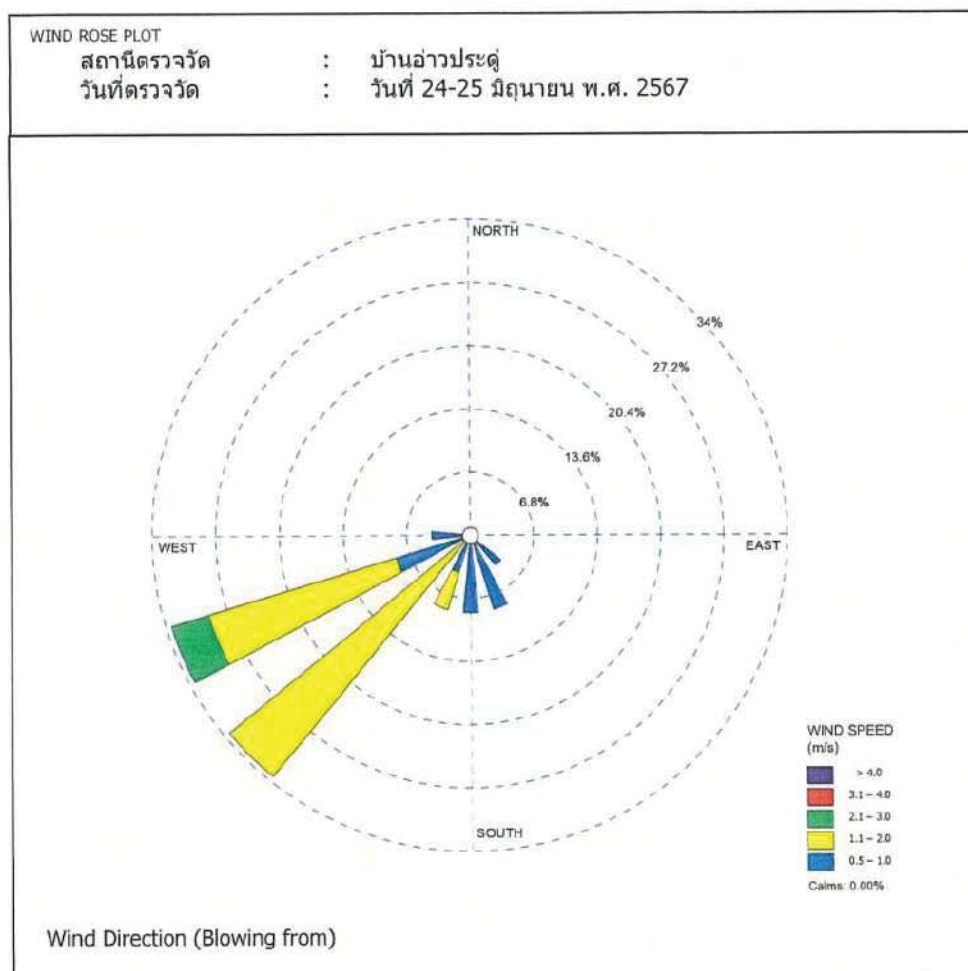
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**Report No. : 2024-500001648 / 002-5 (Page 3 of 3)** Issued date : July 11, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** Ban Aow Pradoo  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** June 24-25, 2024  
**MEASURED BY :** [REDACTED]



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**Report No. : 2024-500001648 / 002-6 (Page 1 of 3)** Issued date : July 11, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** **Fax. :** **E-mail:**

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** New CO Plant of BTC  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** June 24-25, 2024  
**MEASURED BY :**

Location	TIME	June 24-25, 2024	
		WD	WS (m/s)
New CO Plant of BTC	09:00-10:00	WSW	4.0
	10:00-11:00	W	3.6
	11:00-12:00	W	3.6
	12:00-13:00	WSW	3.1
	13:00-14:00	W	3.1
	14:00-15:00	WSW	3.1
	15:00-16:00	WSW	3.1
	16:00-17:00	WSW	3.1
	17:00-18:00	WSW	3.1
	18:00-19:00	W	3.6
	19:00-20:00	WSW	3.1
	20:00-21:00	WSW	2.7
	21:00-22:00	WSW	2.7
	22:00-23:00	WSW	3.6
	23:00-00:00	W	2.7
	00:00-01:00	WSW	2.2
	01:00-02:00	W	2.2
	02:00-03:00	WSW	2.7
	03:00-04:00	W	2.2
	04:00-05:00	WSW	2.7
	05:00-06:00	WSW	2.2
	06:00-07:00	W	2.7
	07:00-08:00	WSW	2.7
	08:00-09:00	WSW	3.1

**Measurement Method :** - Wind speed and direction recording meter

**Remarks :** - WS = Wind Speed  
 - WD = Wind Direction

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**Report No. : 2024-500001648 / 002-6 (Page 2 of 3)** Issued date : July 11, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :**   
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** **Fax. :** **E-mail: :**

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** New CO Plant of BTC  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** June 24-25, 2024  
**MEASURED BY :**

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	29.17	37.50	-
W	-	-	16.67	16.67	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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SGS (THAILAND) LIMITED



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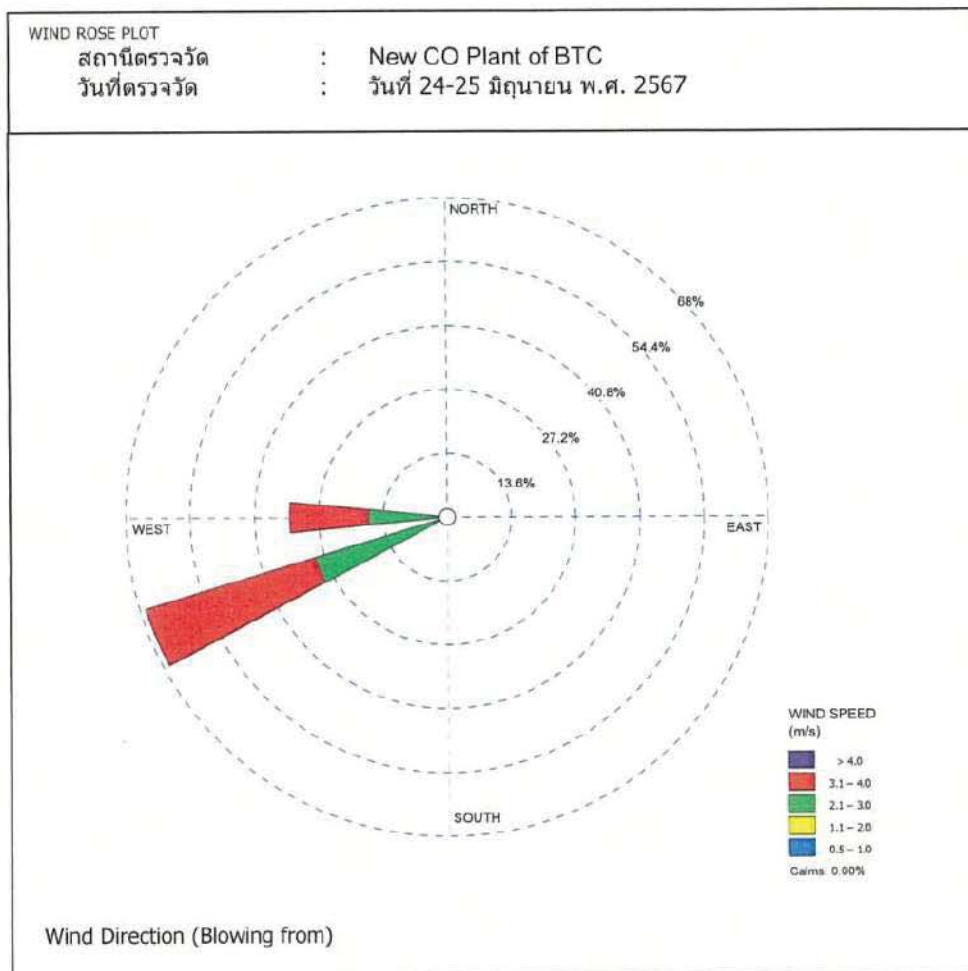
E 283276

**Report No. : 2024-500001648 / 002-6 (Page 3 of 3)** Issued date : July 11, 2024

**CLIENT :** INEOS STYROLUTION (THAILAND) CO., LTD.  
**CONTACT :** [REDACTED]  
**ADDRESS :** 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
**Tel. :** [REDACTED] **Fax. :** [REDACTED] **E-mail:** [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS :** Wind Speed and Direction  
**MEASUREMENT LOCATION :** New CO Plant of BTC  
**LABORATORY NAME :** SGS (Thailand) Limited  
**MEASUREMENT DATE :** June 24-25, 2024  
**MEASURED BY :** [REDACTED]



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**Report No. : 2024-500001648 / 002-7 (Page 1 of 3)**

**Issued date : July 11, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT : [REDACTED]**

**ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150**

**Tel. [REDACTED] Fax. [REDACTED] E-mail: [REDACTED]**

## Analysis Report

**SAMPLE DESIGNATED AS : Wind Speed and Direction**

**MEASUREMENT DATE : June 24-25, 2024**

**MEASUREMENT LOCATION : In front of Siam Yamato Steel Plant**

**MEASURED BY : [REDACTED]**

**LABORATORY NAME : SGS (Thailand) Limited**

Location	TIME	June 24-25, 2024	
		WD	WS (m/s)
Siam Yamato Steel Plant	10:00-11:00	WSW	4.0
	11:00-12:00	WSW	4.9
	12:00-13:00	W	3.6
	13:00-14:00	WSW	3.6
	14:00-15:00	N	3.1
	15:00-16:00	N	3.1
	16:00-17:00	N	3.6
	17:00-18:00	N	5.4
	18:00-19:00	W	4.5
	19:00-20:00	N	4.5
	20:00-21:00	WSW	4.5
	21:00-22:00	WSW	4.0
	22:00-23:00	W	4.5
	23:00-00:00	WSW	4.5
	00:00-01:00	N	4.0
	01:00-02:00	N	3.6
	02:00-03:00	W	4.0
	03:00-04:00	WSW	4.0
	04:00-05:00	N	3.1
	05:00-06:00	N	2.7
	06:00-07:00	W	2.7
	07:00-08:00	N	3.1
	08:00-09:00	W	3.1
	09:00-10:00	WSW	2.7

**Measurement Method : - Wind speed and direction recording meter**

**Remarks : - WS = Wind Speed  
- WD = Wind Direction**

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**Report No. : 2024-500001648 / 002-7 (Page 2 of 3)**

**Issued date : July 11, 2024**

**CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.**

**CONTACT :**

**ADDRESS :**

4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150

Tel. [REDACTED]

Fax. [REDACTED]

E-mail: [REDACTED]

## Analysis Report

**SAMPLE DESIGNATED AS : Wind Speed and Direction**

**MEASUREMENT DATE : June 24-25, 2024**

**MEASUREMENT LOCATION : In front of Siam Yamato Steel Plant**

**MEASURED BY :**

**LABORATORY NAME : SGS (Thailand) Limited**

Wind Speed Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	4.17	29.17	8.33
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	4.17	16.67	12.50
W	-	-	4.17	12.50	8.33
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	0.00				

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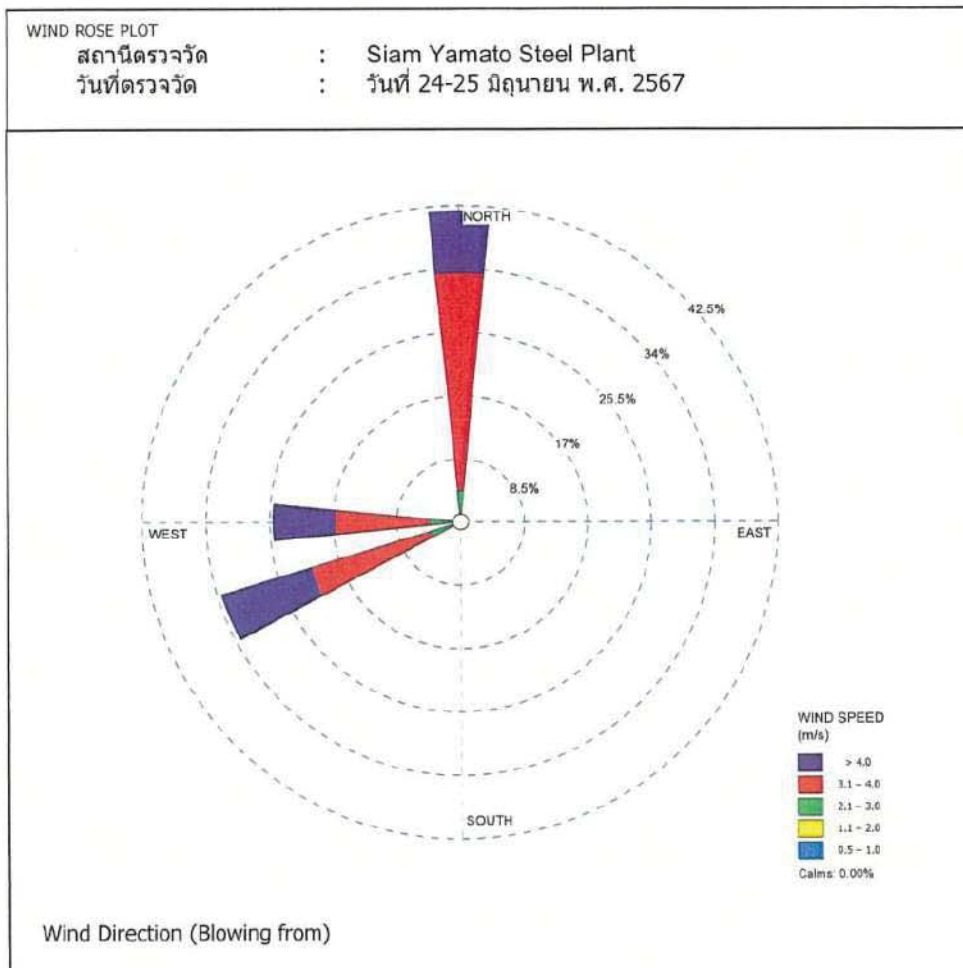
Report No. : 2024-500001648 / 002-7 (Page 3 of 3)

Issued date : July 11, 2024

CLIENT : INEOS STYROLUTION (THAILAND) CO., LTD.  
 CONTACT :   
 ADDRESS : 4/2, I-8 Rd., Map Ta Phut Industrial Estate, T. Map Ta Phut, A. Muang, Rayong 21150  
 Tel. : Fax. : E-mail:

## Analysis Report

SAMPLE DESIGNATED AS : Wind Speed and Direction MEASUREMENT DATE : June 24-25, 2024  
 MEASUREMENT LOCATION : In front of Siam Yamato Steel Plant MEASURED BY :   
 LABORATORY NAME : SGS (Thailand) Limited



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SGS (THAILAND) LIMITED



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