



284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Woodard & Curran

Project Name: US EPA Riverside Industrial Park Superfund Site

Project # N/A

Chemtech Project # Q1665

Test Name: TO-15

A. Number of Samples and Date of Receipt:

11 Air samples were received on 03/26/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: TO-15. This data package contains results for TO-15.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator. The analysis of TO-15 was based on method TO-15.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD for {Q1665-01DUP} with File ID: VL042291.D met criteria except for m/p-Xylene[200%], due to difference in results of original and DUP.

The RPD for {Q1665-03DUP} with File ID: VL042318.D met criteria except for m/p-Xylene[200%], due to difference in results of original and DUP.

The Blank Spike for {VL0411ABS01} with File ID: VL042314.D met requirements for all samples except for 1,1,2,2-Tetrachloroethane[132%], 1,2-Dichlorobenzene[132%], these compounds did not meet the NJDKQP criteria and the in-house criteria also it is failing high but no positive hit in associated samples therefore no corrective action taken.

The Blank Spike for {VL0415ABS01} with File ID: VL042328.D met requirements for all samples except for Methylene Chloride[67%], tert-Butyl Alcohol[68%], these compounds did not meet the NJDKQP criteria and the in-house criteria also it is failing low but only dilution samples analyzed under this Blank spike therefore no corrective action taken.



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The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID VL042326.D met the requirements except for Methylene Chloride and tert-Butyl alcohol are failing low but only dilution samples analyzed under this Continuous Calibration therefore no corrective action taken.

The Tuning criteria met requirements.

Samples IA-B10-2-3242025, IA-B10-4-3242025, IA-B10-4-3242025DL, IA-B10-1-3242025, IA-B14-1-3242025 and IA-B10-3-3242025 were diluted due to high concentrations.

E. Additional Comments:

The not QT review data is reported in the Miscellaneous.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The Sample #AA-DUP-1-3242025,IA-B10-2-3242025,AA-1-3242025, IA-B9-1-3242025, IA-DUP-2-3242025,IA-B9-2-3242025 ,IA-B10-4-3242025, IA-B10-1-3242025,IA-B14-1-3242025,IA-B14-1-3242025DL,IA-B10-3-3242025 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

The Manual Integrations are performed for the followings.

Manual Integration Report			
Sequence	VL032725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042172.D	m/p-Xylene	SAM	3/31/2025 11:24:55 AM	MMDado da	4/3/2025 8:05:09 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042173.D	1,4-Dioxane	SAM	3/31/2025 11:25:00 AM	MMDado da	4/3/2025 8:05:13 AM	Peak Integrated by Software incorrect

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VSTDIC002	VL042173.D	Ethanol	SAM	3/31/2025 11:25:00 AM	MMDado da	4/3/2025 8:05:13 AM	Peak Integrated by Software incorrectly
VSTDIC002	VL042173.D	m/p-Xylene	SAM	3/31/2025 11:25:00 AM	MMDado da	4/3/2025 8:05:13 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	1,4-Dioxane	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	4-Methyl-2-Pentanone	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	Ethanol	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	m/p-Xylene	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	Methyl Methacrylate	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software

							incorrectly
VSTDIC001	VL042174.D	Propene	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	t-1,3-Dichloropropene	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	trans-1,2-Dichloroethene	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042174.D	Vinyl Acetate	SAM	3/31/2025 11:26:28 AM	MMDado da	4/3/2025 8:05:22 AM	Peak Integrated by Software incorrectly
VSTDIC005	VL042175.D	1,1,2-Trichloroethane	SAM	3/31/2025 11:26:33 AM	MMDado da	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDIC005	VL042175.D	1,4-Dioxane	SAM	3/31/2025 11:26:33 AM	MMDado da	4/3/2025 8:05:37 AM	Peak Integrated by Software incorrectly
VSTDIC005	VL042175.D	cis-1,3-Dichloropropene	SAM	3/31/2025 11:26:33 AM	MMDado da	4/3/2025 8:05:37 AM	Peak Integrated by Software

							e incorrect ly
VSTDICCO. 5	VL042175 .D	Cyclohexane	SAM	3/31/20 25 11:26:3 3 AM	MMDado da	4/3/202 5 8:05:37 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICCO. 5	VL042175 .D	m/p-Xylene	SAM	3/31/20 25 11:26:3 3 AM	MMDado da	4/3/202 5 8:05:37 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICCO. 5	VL042175 .D	Methyl Methacrylate	SAM	3/31/20 25 11:26:3 3 AM	MMDado da	4/3/202 5 8:05:37 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICCO. 5	VL042175 .D	Propene	SAM	3/31/20 25 11:26:3 3 AM	MMDado da	4/3/202 5 8:05:37 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICCO. 5	VL042175 .D	Tetrahydrofura n	SAM	3/31/20 25 11:26:3 3 AM	MMDado da	4/3/202 5 8:05:37 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICCO. 5	VL042175 .D	Trichloroethen e	SAM	3/31/20 25 11:26:3 3 AM	MMDado da	4/3/202 5 8:05:37 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICCO. 1	VL042176 .D	1,1,1- Trichloroethan e	SAM	3/31/20 25 11:25:0	MMDado da	4/3/202 5 8:05:45	Peak Integrat ed by

				4 AM		AM	Software incorrectly
VSTDICC0. 1	VL042176 .D	1,1,2,2- Tetrachloroeth ane	SAM	3/31/20 25 11:25:0 4 AM	MMDado da	4/3/202 5 8:05:45 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICC0. 1	VL042176 .D	1,2- Dibromoethan e	SAM	3/31/20 25 11:25:0 4 AM	MMDado da	4/3/202 5 8:05:45 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICC0. 1	VL042176 .D	Carbon Tetrachloride	SAM	3/31/20 25 11:25:0 4 AM	MMDado da	4/3/202 5 8:05:45 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICC0. 1	VL042176 .D	Trichloroethen e	SAM	3/31/20 25 11:25:0 4 AM	MMDado da	4/3/202 5 8:05:45 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICC0. 03	VL042177 .D	1,1,1- Trichloroethan e	SAM	3/31/20 25 11:26:3 9 AM	MMDado da	4/3/202 5 8:05:59 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICC0. 03	VL042177 .D	1,1,2,2- Tetrachloroeth ane	SAM	3/31/20 25 11:26:3 9 AM	MMDado da	4/3/202 5 8:05:59 AM	Peak Integrat ed by Softwar e incorrect ly
VSTDICC0. 03	VL042177 .D	Carbon Tetrachloride	SAM	3/31/20 25	MMDado da	4/3/202 5	Peak Integrat

				11:26:39 AM		8:05:59 AM	ed by Software incorrectly
VSTDIC0.03	VL042177.D	Tetrachloroethene	SAM	3/31/2025 11:26:39 AM	MMDado da	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042177.D	Trichloroethene	SAM	3/31/2025 11:26:39 AM	MMDado da	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042177.D	Vinyl Chloride	SAM	3/31/2025 11:26:39 AM	MMDado da	4/3/2025 8:05:59 AM	Peak Integrated by Software incorrectly
VSTDIC015	VL042178.D	m/p-Xylene	SAM	3/31/2025 11:25:14 AM	MMDado da	4/3/2025 8:06:09 AM	Peak Integrated by Software incorrectly
VSTDICV010	VL042179.D	m/p-Xylene	SAM	3/31/2025 11:28:50 AM	MMDado da	4/3/2025 8:06:14 AM	Peak Integrated by Software incorrectly

Manual Integration Report			
Sequence	VL040925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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VSTDCCC010	VL042286.D	m/p-Xylene	SAM	4/10/2025 12:04:04 PM	MMDado da	4/10/2025 3:39:20 PM	Peak Integrated by Software incorrectly
VL0409AB S01	VL042288.D	m/p-Xylene	SAM	4/10/2025 12:04:11 PM	MMDado da	4/10/2025 7:20:44 PM	Peak Integrated by Software incorrectly
VL0409AB S02	VL042289.D	m/p-Xylene	SAM	4/10/2025 12:04:58 PM	MMDado da	4/10/2025 7:20:47 PM	Peak Integrated by Software incorrectly
Q1665-01	VL042290.D	Benzene	SAM	4/10/2025 12:05:04 PM	MMDado da	4/10/2025 7:20:50 PM	Peak Integrated by Software incorrectly
Q1665-01	VL042290.D	Carbon Tetrachloride	SAM	4/10/2025 12:05:04 PM	MMDado da	4/10/2025 7:20:50 PM	Peak Integrated by Software incorrectly
Q1665-01	VL042290.D	Chlorodifluoromethane	SAM	4/10/2025 12:05:04 PM	MMDado da	4/10/2025 7:20:50 PM	Peak Integrated by Software incorrectly
Q1665-01	VL042290.D	Heptane	SAM	4/10/2025 12:05:04 PM	MMDado da	4/10/2025 7:20:50 PM	Peak Integrated by Software incorrectly

Q1665-01	VL04229 0.D	m/p-Xylene	SAM	4/10/20 25 12:05:0 4 PM	MMDado da	4/10/20 25 7:20:50 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-01	VL04229 0.D	Toluene	SAM	4/10/20 25 12:05:0 4 PM	MMDado da	4/10/20 25 7:20:50 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-01DUP	VL04229 1.D	Carbon Tetrachloride	SAM	4/10/20 25 12:05:0 9 PM	MMDado da	4/10/20 25 7:20:53 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-01DUP	VL04229 1.D	Chlorodifluoromet hane	SAM	4/10/20 25 12:05:0 9 PM	MMDado da	4/10/20 25 7:20:53 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-01DUP	VL04229 1.D	Heptane	SAM	4/10/20 25 12:05:0 9 PM	MMDado da	4/10/20 25 7:20:53 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-01DUP	VL04229 1.D	m/p-Xylene	SAM	4/10/20 25 12:05:0 9 PM	MMDado da	4/10/20 25 7:20:53 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-01DUP	VL04229 1.D	Trichlorofluoromet hane	SAM	4/10/20 25 12:05:0 9 PM	MMDado da	4/10/20 25 7:20:53 PM	Peak Integrat ed by Softwar e incorrec tly

Q1665-04	VL04229 2.D	Chlorodifluoromet hane	SAM	4/10/20 25 12:05:1 4 PM	MMDado da	4/10/20 25 7:20:55 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-04	VL04229 2.D	m/p-Xylene	SAM	4/10/20 25 12:05:1 4 PM	MMDado da	4/10/20 25 7:20:55 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-04	VL04229 2.D	Toluene	SAM	4/10/20 25 12:05:1 4 PM	MMDado da	4/10/20 25 7:20:55 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-06	VL04229 3.D	Carbon Tetrachloride	SAM	4/10/20 25 12:04:3 0 PM	MMDado da	4/10/20 25 7:20:58 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-06	VL04229 3.D	Chlorodifluoromet hane	SAM	4/10/20 25 12:04:3 0 PM	MMDado da	4/10/20 25 7:20:58 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-06	VL04229 3.D	Heptane	SAM	4/10/20 25 12:04:3 0 PM	MMDado da	4/10/20 25 7:20:58 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-06	VL04229 3.D	Propene	SAM	4/10/20 25 12:04:3 0 PM	MMDado da	4/10/20 25 7:20:58 PM	Peak Integrat ed by Softwar e incorrec tly

Q1665-06	VL04229 3.D	Tetrahydrofuran	SAM	4/10/20 25 12:04:3 0 PM	MMDado da	4/10/20 25 7:20:58 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-08	VL04229 4.D	Benzene	SAM	4/10/20 25 12:04:4 3 PM	MMDado da	4/10/20 25 7:21:00 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-08	VL04229 4.D	Carbon Tetrachloride	SAM	4/10/20 25 12:04:4 3 PM	MMDado da	4/10/20 25 7:21:00 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-08	VL04229 4.D	Chlorodifluoromet hane	SAM	4/10/20 25 12:04:4 3 PM	MMDado da	4/10/20 25 7:21:00 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-08	VL04229 4.D	Propene	SAM	4/10/20 25 12:04:4 3 PM	MMDado da	4/10/20 25 7:21:00 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-08	VL04229 4.D	tert-Butyl alcohol	SAM	4/10/20 25 12:04:4 3 PM	MMDado da	4/10/20 25 7:21:00 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-09	VL04229 5.D	Carbon Tetrachloride	SAM	4/10/20 25 12:04:2 6 PM	MMDado da	4/10/20 25 7:21:01 PM	Peak Integrat ed by Softwar e incorrec tly

Q1665-09	VL04229 5.D	Chlorodifluoromet hane	SAM	4/10/20 25 12:04:2 6 PM	MMDado da	4/10/20 25 7:21:01 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-09	VL04229 5.D	Heptane	SAM	4/10/20 25 12:04:2 6 PM	MMDado da	4/10/20 25 7:21:01 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-09	VL04229 5.D	m/p-Xylene	SAM	4/10/20 25 12:04:2 6 PM	MMDado da	4/10/20 25 7:21:01 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-09	VL04229 5.D	Propene	SAM	4/10/20 25 12:04:2 6 PM	MMDado da	4/10/20 25 7:21:01 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-20	VL04229 6.D	Chlorobenzene	SAM	4/10/20 25 12:05:2 0 PM	MMDado da	4/10/20 25 7:21:06 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-20	VL04229 6.D	Chlorodifluoromet hane	SAM	4/10/20 25 12:05:2 0 PM	MMDado da	4/10/20 25 7:21:06 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-20	VL04229 6.D	Heptane	SAM	4/10/20 25 12:05:2 0 PM	MMDado da	4/10/20 25 7:21:06 PM	Peak Integrat ed by Softwar e incorrec tly

Q1665-20	VL042296.D	m/p-Xylene	SAM	4/10/2025 12:05:20 PM	MMDado da	4/10/2025 7:21:06 PM	Peak Integrated by Software incorrectly
Q1665-20	VL042296.D	Propene	SAM	4/10/2025 12:05:20 PM	MMDado da	4/10/2025 7:21:06 PM	Peak Integrated by Software incorrectly

Manual Integration Report			
Sequence	VL041125	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042312.D	m/p-Xylene	SAM	4/16/2025 9:17:16 PM	MMDado da	4/17/2025 1:40:05 PM	Peak Integrated by Software incorrectly
VL0411AB S01	VL042314.D	m/p-Xylene	SAM	4/16/2025 9:17:26 PM	MMDado da	4/17/2025 1:40:08 PM	Peak Integrated by Software incorrectly
Q1665-03	VL042317.D	Carbon Tetrachloride	SAM	4/16/2025 9:17:31 PM	MMDado da	4/17/2025 1:40:15 PM	Peak Integrated by Software incorrectly
Q1665-03	VL042317.D	Heptane	SAM	4/16/2025 9:17:31 PM	MMDado da	4/17/2025 1:40:15 PM	Peak Integrated by Software

							incorrectly
Q1665-03	VL042317.D	m/p-Xylene	SAM	4/16/2025 9:17:31 PM	MMDado da	4/17/2025 1:40:15 PM	Peak Integrated by Software incorrectly
Q1665-03	VL042317.D	Propene	SAM	4/16/2025 9:17:31 PM	MMDado da	4/17/2025 1:40:15 PM	Peak Integrated by Software incorrectly
Q1665-03	VL042317.D	Tetrachloroethene	SAM	4/16/2025 9:17:31 PM	MMDado da	4/17/2025 1:40:15 PM	Peak Integrated by Software incorrectly
Q1665-03DUP	VL042318.D	Carbon Tetrachloride	SAM	4/16/2025 9:17:45 PM	MMDado da	4/17/2025 1:40:17 PM	Peak Integrated by Software incorrectly
Q1665-03DUP	VL042318.D	Heptane	SAM	4/16/2025 9:17:45 PM	MMDado da	4/17/2025 1:40:17 PM	Peak Integrated by Software incorrectly
Q1665-03DUP	VL042318.D	m/p-Xylene	SAM	4/16/2025 9:17:45 PM	MMDado da	4/17/2025 1:40:17 PM	Peak Integrated by Software incorrectly
Q1665-03DUP	VL042318.D	o-Xylene	SAM	4/16/2025 9:17:45 PM	MMDado da	4/17/2025 1:40:17 PM	Peak Integrated by Software

							e incorec tly
Q1665-03DUP	VL042318.D	Propene	SAM	4/16/2025 9:17:45 PM	MMDado da	4/17/2025 1:40:17 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-03DUP	VL042318.D	tert-Butyl alcohol	SAM	4/16/2025 9:17:45 PM	MMDado da	4/17/2025 1:40:17 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-03DUP	VL042318.D	Tetrachloroethene	SAM	4/16/2025 9:17:45 PM	MMDado da	4/17/2025 1:40:17 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-03DUP	VL042318.D	Toluene	SAM	4/16/2025 9:17:45 PM	MMDado da	4/17/2025 1:40:17 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-10	VL042319.D	2,2,4-Trimethylpentane	SAM	4/16/2025 9:18:13 PM	MMDado da	4/17/2025 1:40:19 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-10	VL042319.D	Carbon Tetrachloride	SAM	4/16/2025 9:18:13 PM	MMDado da	4/17/2025 1:40:19 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-10	VL042319.D	Chlorodifluoromet hane	SAM	4/16/2025 9:18:13	MMDado da	4/17/2025 1:40:19	Peak Integrat ed by

				PM		PM	Software incorrectly
Q1665-10	VL042319.D	Heptane	SAM	4/16/2025 9:18:13 PM	MMDado da	4/17/2025 1:40:19 PM	Peak Integrated by Software incorrectly
Q1665-10	VL042319.D	m/p-Xylene	SAM	4/16/2025 9:18:13 PM	MMDado da	4/17/2025 1:40:19 PM	Peak Integrated by Software incorrectly
Q1665-10	VL042319.D	Propene	SAM	4/16/2025 9:18:13 PM	MMDado da	4/17/2025 1:40:19 PM	Peak Integrated by Software incorrectly
Q1665-10	VL042319.D	Toluene	SAM	4/16/2025 9:18:13 PM	MMDado da	4/17/2025 1:40:19 PM	Peak Integrated by Software incorrectly
Q1665-11	VL042320.D	4-Methyl-2-Pentanone	SAM	4/16/2025 9:18:07 PM	MMDado da	4/17/2025 1:40:21 PM	Peak Integrated by Software incorrectly
Q1665-11	VL042320.D	Carbon Tetrachloride	SAM	4/16/2025 9:18:07 PM	MMDado da	4/17/2025 1:40:21 PM	Peak Integrated by Software incorrectly
Q1665-11	VL042320.D	m/p-Xylene	SAM	4/16/2025	MMDado da	4/17/2025	Peak Integrated

				9:18:07 PM		1:40:21 PM	ed by Software incorrectly
Q1665-11	VL04232 0.D	Propene	SAM	4/16/2025 9:18:07 PM	MMDado da	4/17/2025 1:40:21 PM	Peak Integrated by Software incorrectly
Q1665-11	VL04232 0.D	tert-Butyl alcohol	SAM	4/16/2025 9:18:07 PM	MMDado da	4/17/2025 1:40:21 PM	Peak Integrated by Software incorrectly
Q1665-11	VL04232 0.D	Toluene	SAM	4/16/2025 9:18:07 PM	MMDado da	4/17/2025 1:40:21 PM	Peak Integrated by Software incorrectly
Q1665-18	VL04232 1.D	4-Methyl-2-Pentanone	SAM	4/16/2025 9:18:36 PM	MMDado da	4/17/2025 1:40:23 PM	Peak Integrated by Software incorrectly
Q1665-18	VL04232 1.D	Carbon Tetrachloride	SAM	4/16/2025 9:18:36 PM	MMDado da	4/17/2025 1:40:23 PM	Peak Integrated by Software incorrectly
Q1665-18	VL04232 1.D	Chlorodifluoromethane	SAM	4/16/2025 9:18:36 PM	MMDado da	4/17/2025 1:40:23 PM	Peak Integrated by Software incorrectly
Q1665-18	VL04232	Heptane	SAM	4/16/20	MMDado	4/17/20	Peak

	1.D			25 9:18:36 PM	da	25 1:40:23 PM	Integrat ed by Softwar e incorrec tly
Q1665-18	VL04232 1.D	m/p-Xylene	SAM	4/16/20 25 9:18:36 PM	MMDado da	4/17/20 25 1:40:23 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-18	VL04232 1.D	o-Xylene	SAM	4/16/20 25 9:18:36 PM	MMDado da	4/17/20 25 1:40:23 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-18	VL04232 1.D	Propene	SAM	4/16/20 25 9:18:36 PM	MMDado da	4/17/20 25 1:40:23 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-18	VL04232 1.D	tert-Butyl alcohol	SAM	4/16/20 25 9:18:36 PM	MMDado da	4/17/20 25 1:40:23 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-18	VL04232 1.D	Tetrachloroethene	SAM	4/16/20 25 9:18:36 PM	MMDado da	4/17/20 25 1:40:23 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665- 10DL	VL04232 3.D	Propene	SAM	4/16/20 25 9:18:02 PM	MMDado da	4/17/20 25 1:40:25 PM	Peak Integrat ed by Softwar e incorrec tly

Q1665-11DL	VL042324.D	Chloroform	SAM	4/16/2025 9:17:57 PM	MMDadoda	4/17/2025 1:40:26 PM	Peak Integrated by Software incorrectly
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Manual Integration Report			
Sequence	VL041525	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042326.D	m/p-Xylene	SAM	4/16/2025 2:13:04 PM	MMDadoda	4/16/2025 3:47:21 PM	Peak Integrated by Software incorrectly
VL0415ABS01	VL042328.D	m/p-Xylene	SAM	4/16/2025 2:13:09 PM	MMDadoda	4/16/2025 3:47:23 PM	Peak Integrated by Software incorrectly
Q1665-10DL2	VL042332.D	Propene	SAM	4/16/2025 2:13:14 PM	MMDadoda	4/16/2025 3:47:25 PM	Peak Integrated by Software incorrectly

Manual Integration Report			
Sequence	VL041725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042349.D	m/p-Xylene	SAM	4/18/2025 4:19:07 PM	MMDadoda	4/18/2025 10:45:20 PM	Peak Integrated by Software incorrectly

VSTDICCO 02	VL04235 0.D	1,4-Dioxane	SAM	4/18/20 25 4:19:12 PM	MMDado da	4/18/20 25 10:45:1 7 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 02	VL04235 0.D	cis-1,3- Dichloropropene	SAM	4/18/20 25 4:19:12 PM	MMDado da	4/18/20 25 10:45:1 7 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 02	VL04235 0.D	Ethanol	SAM	4/18/20 25 4:19:12 PM	MMDado da	4/18/20 25 10:45:1 7 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 02	VL04235 0.D	Heptane	SAM	4/18/20 25 4:19:12 PM	MMDado da	4/18/20 25 10:45:1 7 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 02	VL04235 0.D	m/p-Xylene	SAM	4/18/20 25 4:19:12 PM	MMDado da	4/18/20 25 10:45:1 7 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 02	VL04235 0.D	Trichloroethene	SAM	4/18/20 25 4:19:12 PM	MMDado da	4/18/20 25 10:45:1 7 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 01	VL04235 1.D	1,1,2- Trichloroethane	SAM	4/18/20 25 4:19:17 PM	MMDado da	4/18/20 25 10:45:1 5 PM	Peak Integrat ed by Softwar e incorrec tly

VSTDICCO01	VL042351.D	1,3-Butadiene	SAM	4/18/2025 4:19:17 PM	MMDado da	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042351.D	1,4-Dioxane	SAM	4/18/2025 4:19:17 PM	MMDado da	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042351.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:19:17 PM	MMDado da	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042351.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:19:17 PM	MMDado da	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042351.D	Cyclohexane	SAM	4/18/2025 4:19:17 PM	MMDado da	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042351.D	Ethanol	SAM	4/18/2025 4:19:17 PM	MMDado da	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042351.D	Heptane	SAM	4/18/2025 4:19:17 PM	MMDado da	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly

VSTDICCO01	VL042351.D	m/p-Xylene	SAM	4/18/2025 4:19:17 PM	MMDado da	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042351.D	Methyl Methacrylate	SAM	4/18/2025 4:19:17 PM	MMDado da	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042351.D	t-1,3-Dichloropropene	SAM	4/18/2025 4:19:17 PM	MMDado da	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL042352.D	1,1,2-Trichloroethane	SAM	4/18/2025 4:20:33 PM	MMDado da	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL042352.D	1,2-Dichloropropane	SAM	4/18/2025 4:20:33 PM	MMDado da	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL042352.D	1,4-Dioxane	SAM	4/18/2025 4:20:33 PM	MMDado da	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL042352.D	4-Methyl-2-Pentanone	SAM	4/18/2025 4:20:33 PM	MMDado da	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly

VSTDIC0.5	VL04235 2.D	Chlorobenzene	SAM	4/18/20 25 4:20:33 PM	MMDado da	4/18/20 25 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL04235 2.D	cis-1,3-Dichloropropene	SAM	4/18/20 25 4:20:33 PM	MMDado da	4/18/20 25 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL04235 2.D	Ethanol	SAM	4/18/20 25 4:20:33 PM	MMDado da	4/18/20 25 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL04235 2.D	Heptane	SAM	4/18/20 25 4:20:33 PM	MMDado da	4/18/20 25 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL04235 2.D	m/p-Xylene	SAM	4/18/20 25 4:20:33 PM	MMDado da	4/18/20 25 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL04235 2.D	Methyl Methacrylate	SAM	4/18/20 25 4:20:33 PM	MMDado da	4/18/20 25 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL04235 2.D	t-1,3-Dichloropropene	SAM	4/18/20 25 4:20:33 PM	MMDado da	4/18/20 25 10:45:07 PM	Peak Integrated by Software incorrectly

VSTDICCO.5	VL04235 2.D	Tetrahydrofuran	SAM	4/18/20 25 4:20:33 PM	MMDado da	4/18/20 25 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04235 3.D	1,1,1-Trichloroethane	SAM	4/18/20 25 4:20:37 PM	MMDado da	4/18/20 25 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04235 3.D	1,1,2,2-Tetrachloroethane	SAM	4/18/20 25 4:20:37 PM	MMDado da	4/18/20 25 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04235 3.D	1,2-Dibromoethane	SAM	4/18/20 25 4:20:37 PM	MMDado da	4/18/20 25 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04235 3.D	Tetrachloroethene	SAM	4/18/20 25 4:20:37 PM	MMDado da	4/18/20 25 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04235 3.D	Trichloroethene	SAM	4/18/20 25 4:20:37 PM	MMDado da	4/18/20 25 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL04235 4.D	1,1,1-Trichloroethane	SAM	4/18/20 25 4:19:24 PM	MMDado da	4/18/20 25 10:45:02 PM	Peak Integrated by Software incorrectly

VSTDICCO.03	VL042354.D	1,1,2,2-Tetrachloroethane	SAM	4/18/2025 4:19:24 PM	MMDado da	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL042354.D	Carbon Tetrachloride	SAM	4/18/2025 4:19:24 PM	MMDado da	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL042354.D	Tetrachloroethene	SAM	4/18/2025 4:19:24 PM	MMDado da	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL042354.D	Trichloroethene	SAM	4/18/2025 4:19:24 PM	MMDado da	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectly
VSTDICCO15	VL042355.D	m/p-Xylene	SAM	4/18/2025 4:21:35 PM	MMDado da	4/18/2025 10:44:59 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042356.D	m/p-Xylene	SAM	4/18/2025 4:20:42 PM	MMDado da	4/18/2025 10:44:57 PM	Peak Integrated by Software incorrectly
VL0417ABS01	VL042358.D	m/p-Xylene	SAM	4/18/2025 4:21:39 PM	MMDado da	4/18/2025 10:44:55 PM	Peak Integrated by Software incorrectly

Q1665-15	VL04235 9.D	1,1,1- Trichloroethane	SAM	4/18/20 25 4:22:27 PM	MMDado da	4/18/20 25 10:44:5 3 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-15	VL04235 9.D	1,4-Dioxane	SAM	4/18/20 25 4:22:27 PM	MMDado da	4/18/20 25 10:44:5 3 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-15	VL04235 9.D	2,2,4- Trimethylpentane	SAM	4/18/20 25 4:22:27 PM	MMDado da	4/18/20 25 10:44:5 3 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-15	VL04235 9.D	2-Hexanone	SAM	4/18/20 25 4:22:27 PM	MMDado da	4/18/20 25 10:44:5 3 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-15	VL04235 9.D	4-Methyl-2- Pentanone	SAM	4/18/20 25 4:22:27 PM	MMDado da	4/18/20 25 10:44:5 3 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-15	VL04235 9.D	Benzene	SAM	4/18/20 25 4:22:27 PM	MMDado da	4/18/20 25 10:44:5 3 PM	Peak Integrat ed by Softwar e incorrec tly
Q1665-15	VL04235 9.D	Carbon Tetrachloride	SAM	4/18/20 25 4:22:27 PM	MMDado da	4/18/20 25 10:44:5 3 PM	Peak Integrat ed by Softwar e incorrec tly

Q1665-15	VL042359.D	Chlorodifluoromethane	SAM	4/18/2025 4:22:27 PM	MMDado da	4/18/2025 10:44:53 PM	Peak Integrated by Software incorrectly
Q1665-15	VL042359.D	Heptane	SAM	4/18/2025 4:22:27 PM	MMDado da	4/18/2025 10:44:53 PM	Peak Integrated by Software incorrectly
Q1665-15	VL042359.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:22:27 PM	MMDado da	4/18/2025 10:44:53 PM	Peak Integrated by Software incorrectly
Q1665-15DL	VL042360.D	2-Butanone	SAM	4/18/2025 4:21:44 PM	MMDado da	4/18/2025 10:44:49 PM	Peak Integrated by Software incorrectly
Q1665-15DL	VL042360.D	Ethanol	SAM	4/18/2025 4:21:44 PM	MMDado da	4/18/2025 10:44:49 PM	Peak Integrated by Software incorrectly
Q1665-15DL	VL042360.D	m/p-Xylene	SAM	4/18/2025 4:21:44 PM	MMDado da	4/18/2025 10:44:49 PM	Peak Integrated by Software incorrectly
Q1665-15DL	VL042360.D	Toluene	SAM	4/18/2025 4:21:44 PM	MMDado da	4/18/2025 10:44:49 PM	Peak Integrated by Software incorrectly



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F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____