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CASE NARRATIVE

Apex Companies, LLC.

Project Name: Emerson Vapor Intrusion REG006-0309010-25011690

Project # N/A

Order ID # Q3037

Test Name: VOCMS Group2

A. Number of Samples and Date of Receipt:

1 Air sample was received on 09/05/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group2. This data package contains results for VOCMS Group2.

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 VOCMS Group2 was based on method TO-15.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

E. Additional Comments:

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

The not QT review data is reported in the Miscellaneous.

The Manual Integrations are performed for the followings:

Manual Integration Report			
Sequence	VL081325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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VSTDICCC010	VL042842.D	m/p-Xylene	SAM	8/14/2025 7:48:06 AM	MMDadoda	8/18/2025 8:42:07 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042843.D	1,1,2-Trichloroethane	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042843.D	1,4-Dioxane	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042843.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042843.D	Ethanol	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042843.D	m/p-Xylene	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042843.D	Methyl Methacrylate	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL042844.D	1,2-Dichloropropane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL042844.D	1,4-Dioxane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL042844.D	2,2,4-Trimethylpentane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL042844.D	Ethanol	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly
VSTDICCC001	VL042844.D	Heptane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly

VSTDIC001	VL042844.D	m/p-Xylene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042844.D	Methyl Methacrylate	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042844.D	t-1,3- Dichloropropene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly
VSTDIC001	VL042844.D	trans-1,2- Dichloroethene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042845.D	1,1,2- Trichloroethane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042845.D	1,4-Dioxane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042845.D	2,2,4- Trimethylpentane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042845.D	4-Methyl-2- Pentanone	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042845.D	cis-1,3- Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042845.D	m/p-Xylene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042845.D	Methyl Methacrylate	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042845.D	t-1,3- Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042845.D	Toluene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDIC0.1	VL042846.D	1,1,1- Trichloroethane	SAM	8/14/2025 7:48:23	MMDadoda	8/18/2025 8:42:18	Peak Integrated

				AM		AM	by Software incorrectly
VSTDIC0.1	VL042846.D	1,2-Dibromoethane	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDIC0.1	VL042846.D	Naphthalene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDIC0.1	VL042846.D	Tetrachloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDIC0.1	VL042846.D	Trichloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042847.D	1,1,1-Trichloroethane	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042847.D	1,1,2,2-Tetrachloroethane	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042847.D	Carbon Tetrachloride	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042847.D	Tetrachloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042847.D	Trichloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software incorrectly
VSTDIC015	VL042848.D	m/p-Xylene	SAM	8/14/2025 7:49:35 AM	MMDadoda	8/18/2025 8:42:35 AM	Peak Integrated by Software incorrectly
VSTDICV010	VL042849.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrated by Software incorrectly
VSTDICV010	VL042849.D	m/p-Xylene	SAM	8/14/2025 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrated by Software incorrectly

VSTDCCC010	VL042900.	m/p-Xylene	sa	9/9/202	MMDadod	9/11/202	Peak
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	D		m	5 12:26:3 4 PM	a	5 5:28:20 PM	Integrate d by Software incorrectl y
VL0908ABS0 1	VL042902. D	m/p-Xylene	sa m	9/9/202 5 12:26:3 8 PM	MMDadod a	9/11/202 5 5:24:29 PM	Peak Integrate d by Software incorrectl y
VL0908ABS0 1	VL042902. D	Propene	sa m	9/9/202 5 12:26:3 8 PM	MMDadod a	9/11/202 5 5:24:29 PM	Peak Integrate d by Software incorrectl y
Q3037-01	VL042904. D	4-Methyl-2-Pentanone	sa m	9/9/202 5 12:26:4 3 PM	MMDadod a	9/11/202 5 5:28:18 PM	Peak Integrate d by Software incorrectl y
Q3037-01	VL042904. D	Benzene	sa m	9/9/202 5 12:26:4 3 PM	MMDadod a	9/11/202 5 5:28:18 PM	Peak Integrate d by Software incorrectl y
Q3037-01	VL042904. D	Carbon Tetrachloride	sa m	9/9/202 5 12:26:4 3 PM	MMDadod a	9/11/202 5 5:28:18 PM	Peak Integrate d by Software incorrectl y
Q3037-01	VL042904. D	m/p-Xylene	sa m	9/9/202 5 12:26:4 3 PM	MMDadod a	9/11/202 5 5:28:18 PM	Peak Integrate d by Software incorrectl y
Q3037-01	VL042904. D	Methyl Methacrylate	sa m	9/9/202 5 12:26:4 3 PM	MMDadod a	9/11/202 5 5:28:18 PM	Peak Integrate d by Software incorrectl y
Q3037-01	VL042904. D	n-propylbenzene	sa m	9/9/202 5 12:26:4 3 PM	MMDadod a	9/11/202 5 5:28:18 PM	Peak Integrate d by Software incorrectl y
Q3037-01	VL042904. D	Propene	sa m	9/9/202 5 12:26:4	MMDadod a	9/11/202 5 5:28:18 PM	Peak Integrate d by

				3 PM			Software incorrectl y
Q3037-01	VL042904.D	Trichlorofluoromethane	sa m	9/9/202 5 12:26:4 3 PM	MMDadod a	9/11/202 5 5:28:18 PM	Peak Integrate d by Software incorrectl y
Q3037-01	VL042904.D	Vinyl Acetate	sa m	9/9/202 5 12:26:4 3 PM	MMDadod a	9/11/202 5 5:28:18 PM	Peak Integrate d by Software incorrectl y
Q3037-01DUP	VL042905.D	Benzene	sa m	9/9/202 5 12:31:1 0 PM	MMDadod a	9/11/202 5 5:28:16 PM	Peak Integrate d by Software incorrectl y
Q3037-01DUP	VL042905.D	m/p-Xylene	sa m	9/9/202 5 12:31:1 0 PM	MMDadod a	9/11/202 5 5:28:16 PM	Peak Integrate d by Software incorrectl y
Q3037-01DUP	VL042905.D	Methyl Methacrylate	sa m	9/9/202 5 12:31:1 0 PM	MMDadod a	9/11/202 5 5:28:16 PM	Peak Integrate d by Software incorrectl y
Q3037-01DUP	VL042905.D	n-propylbenzene	sa m	9/9/202 5 12:31:1 0 PM	MMDadod a	9/11/202 5 5:28:16 PM	Peak Integrate d by Software incorrectl y
Q3037-01DUP	VL042905.D	Propene	sa m	9/9/202 5 12:31:1 0 PM	MMDadod a	9/11/202 5 5:28:16 PM	Peak Integrate d by Software incorrectl y
Q3037-01DUP	VL042905.D	Tetrahydrofuran	sa m	9/9/202 5 12:31:1 0 PM	MMDadod a	9/11/202 5 5:28:16 PM	Peak Integrate d by Software incorrectl y
Q3037-01DUP	VL042905.D	Toluene	sa m	9/9/202 5 12:31:1 0 PM	MMDadod a	9/11/202 5 5:28:16 PM	Peak Integrate d by Software incorrectl

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Q3037-01DUP	VL042905.D	Trichlorofluoromethane	sa m	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly
Q3037-01DUP	VL042905.D	Vinyl Acetate	sa m	9/9/2025 12:31:10 PM	MMDadoda	9/11/2025 5:28:16 PM	Peak Integrated by Software incorrectly

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_____