

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
 Data File : VX046777.D
 Acq On : 20 Jun 2025 09:16
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Jun 20 23:11:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 11 06:20:28 2025
 Response via : Initial Calibration

06/23/2025
 Supervised By :Mahesh
 Dadoda

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.904	128	22575m	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.763	114	140486	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	129246	30.000	ug/l	0.00

06/23/2025

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	54245	29.684	ug/l	-0.01
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.933%
60) 4-Bromofluorobenzene	11.079	95	64960	29.819	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.400%
63) Toluene-d8	8.647	98	168309	29.154	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.167%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	28793	19.618	ug/l	97
3) Chloromethane	1.307	50	30955	20.471	ug/l	92
4) Vinyl Chloride	1.386	62	32642	22.391	ug/l	99
5) Bromomethane	1.630	94	19924	22.885	ug/l	88
6) Chloroethane	1.709	64	20308	24.248	ug/l	96
7) Trichlorofluoromethane	1.904	101	47875	22.928	ug/l	94
8) Diethyl Ether	2.148	74	15271	20.873	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.349	101	27484	19.783	ug/l	91
10) 1,1-Dichloroethene	2.337	96	28698	21.295	ug/l	96
11) Methyl Iodide	2.465	142	30595	16.652	ug/l #	44
12) Methyl Acetate	2.709	43	22118	13.021	ug/l	98
13) Acrolein	2.245	56	16319	98.040	ug/l	100
14) Acrylonitrile	3.068	53	55198	79.072	ug/l	99
15) Acetone	2.386	58	12387	77.599	ug/l	78
16) Carbon Disulfide	2.526	76	81390	21.768	ug/l	99
17) Allyl chloride	2.678	41	49288	20.158	ug/l	95
18) Methylene Chloride	2.800	84	29832	20.058	ug/l	98
19) trans-1,2-Dichloroethene	3.105	96	29121	20.852	ug/l	98
20) Diisopropyl ether	3.763	45	97531	21.084	ug/l	93
21) 1,1-Dichloroethane	3.623	63	55393	20.899	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	30483	18.722	ug/l	86
23) tert-Butyl Alcohol	2.947	59	7915	56.138	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	74481	18.092	ug/l	96
25) Chloroform	5.099	83	54460	19.962	ug/l	97
26) Cyclohexane	5.477	56	51000	21.090	ug/l #	96
29) 1,1-Dichloropropene	5.696	75	39641	17.934	ug/l	97
30) 2-Butanone	4.562	43	58354	59.249	ug/l	99
31) 2,2-Dichloropropane	4.483	77	40775	20.779	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	46106	16.881	ug/l	97
33) Carbon Tetrachloride	5.678	117	33349m	13.758	ug/l	
34) Benzene	6.044	78	117663	18.119	ug/l #	93
35) Methacrylonitrile	4.928	41	16922m	14.011	ug/l	
36) 1,2-Dichloroethane	6.086	62	39738	16.173	ug/l #	92
37) Trichloroethene	7.123	130	29997	18.408	ug/l	90
38) Methylcyclohexane	7.379	83	52584	18.742	ug/l	95
39) 1,2-Dichloropropane	7.434	63	29100	17.963	ug/l	97
40) Dibromomethane	7.580	93	19688	16.257	ug/l	75
41) Bromodichloromethane	7.818	83	43072	17.458	ug/l #	98
42) Vinyl Acetate	3.727	43	341046	80.249	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	27553m	13.207	ug/l	
44) Isopropyl Acetate	6.336	43	44872	13.750	ug/l	97
45) 1,4-Dioxane	7.659	88	5172	251.260	ug/l	97
46) Methyl methacrylate	7.690	41	23572m	13.229	ug/l	
47) n-amyl Acetate	10.841	43	41232	14.126	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	38046	17.202	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	43744	17.715	ug/l	93
50) 1,1,2-Trichloroethane	9.147	97	25905	16.972	ug/l #	80
51) Ethyl methacrylate	9.116	69	33976	14.640	ug/l	91
52) 1,3-Dichloropropane	9.305	76	45649	17.171	ug/l	99
53) Dibromochloromethane	9.506	129	9465m	5.261	ug/l	
54) 1,2-Dibromoethane	9.610	107	26332	16.401	ug/l	97
55) 2-Chloroethyl vinyl ether	8.238	63	111608	92.082	ug/l	99
56) Bromoform	10.811	173	1662m	1.495	ug/l	
58) 4-Methyl-2-Pentanone	8.567	43	128955	61.339	ug/l	98
59) 2-Hexanone	9.427	43	84809	57.183	ug/l	95
61) Tetrachloroethene	9.269	164	25971	19.174	ug/l	97
62) Toluene	8.714	91	128254	18.311	ug/l	100
64) Chlorobenzene	10.073	112	82695	18.304	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.159	131	27512	18.171	ug/l	99
66) Ethyl Benzene	10.189	91	143200	17.905	ug/l	98
67) m/p-Xylenes	10.299	106	109605	37.051	ug/l	95
68) o-Xylene	10.640	106	52326	18.371	ug/l	96
69) Styrene	10.652	104	89777	18.389	ug/l	97
70) Isopropylbenzene	10.957	105	137878	18.038	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	33606	14.967	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	26637m	14.210	ug/l	
73) Bromobenzene	11.195	156	33374	18.627	ug/l	95
74) n-propylbenzene	11.299	91	169277	18.520	ug/l	100
75) 2-Chlorotoluene	11.360	91	98731	18.044	ug/l	97
76) 1,3,5-Trimethylbenzene	11.445	105	115156	18.132	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	9363	14.786	ug/l #	76
78) 4-Chlorotoluene	11.451	91	114830	18.139	ug/l	96
79) tert-butylbenzene	11.713	119	118400	18.694	ug/l	94
80) 1,2,4-Trimethylbenzene	11.750	105	113653	18.120	ug/l	100
81) sec-Butylbenzene	11.884	105	150809	18.607	ug/l	98
82) p-Isopropyltoluene	12.006	119	125207	18.822	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	63193	18.947	ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	63997	19.081	ug/l	97
85) n-Butylbenzene	12.329	91	118315	18.462	ug/l	98
86) Hexachloroethane	12.536	117	15682m	13.574	ug/l	
87) 1,2-Dichlorobenzene	12.335	146	60525	18.863	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	5664	12.228	ug/l	88
89) 1,2,4-Trichlorobenzene	13.585	180	40598	19.192	ug/l	98
90) Hexachlorobutadiene	13.719	225	17210	18.476	ug/l	73
91) Naphthalene	13.774	128	100889	15.033	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	37700	18.156	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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