

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU050622\
 Data File : VU048452.D
 Acq On : 06 May 2022 13:24
 Operator : SY/MD
 Sample : VSTD00562
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD005062

Quant Time: May 06 23:20:03 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM050622WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri May 06 23:19:19 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/09/2022
 Supervised By : Mahesh Dadoda 05/09/2022

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	403501	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	385333	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.813	152	179052	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	17773	4.863	ug/L	0.00
7) Chloroethane-d5	1.913	69	12640	4.987	ug/L	0.01
11) 1,1-Dichloroethene-d2	2.572	63	31889	5.349	ug/L	0.00
21) 2-Butanone-d5	4.633	46	27657	8.932	ug/L	0.01
24) Chloroform-d	5.067	84	30297	4.607	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.707	65	19832	4.986	ug/L	0.00
32) Benzene-d6	5.733	84	60235	5.012	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.691	67	18891	4.738	ug/L	0.00
41) Toluene-d8	7.900	98	49687	4.589	ug/L	0.00
43) trans-1,3-Dichloroprop...	8.183	79	8386	4.756	ug/L	0.00
47) 2-Hexanone-d5	8.636	63	14650	7.118	ug/L	0.00
56) 1,1,2,2-Tetrachloroeth...	10.758	84	28496	4.213	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	12.195	152	19508	4.982	ug/L	0.00
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.385	85	20772	6.702	ug/L	97
3) Chloromethane	1.524	50	24182	6.786	ug/L	96
5) Vinyl chloride	1.604	62	21993	6.220	ug/L	94
6) Bromomethane	1.858	94	12088	7.026	ug/L	100
8) Chloroethane	1.935	64	13201	6.725	ug/L	97
9) Trichlorofluoromethane	2.141	101	29152	6.353	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.582	101	17460	5.858	ug/L	98
12) 1,1-Dichloroethene	2.582	96	15405	5.826	ug/L	98
13) Acetone	2.630	43	32799	16.289	ug/L	95
14) Carbon disulfide	2.794	76	48607	7.173	ug/L	99
15) Methyl Acetate	2.955	43	25115	6.199	ug/L	99
16) Methylene chloride	3.048	84	18870	5.619	ug/L	99
17) trans-1,2-Dichloroethene	3.356	96	16075	5.820	ug/L	88
18) Methyl tert-butyl Ether	3.363	73	52444	5.773	ug/L	99
19) 1,1-Dichloroethane	3.877	63	34416	5.992	ug/L	97
20) cis-1,2-Dichloroethene	4.668	96	18489	5.685	ug/L	99
22) 2-Butanone	4.710	43	36069	12.118	ug/L	99
23) Bromochloromethane	4.980	128	10609	5.912	ug/L	88
25) Chloroform	5.093	83	33564	5.769	ug/L	97
27) 1,2-Dichloroethane	5.797	62	28398	6.518	ug/L	100
29) Cyclohexane	5.389	56	27603	7.071	ug/L	99
30) 1,1,1-Trichloroethane	5.318	97	29876	6.681	ug/L	99
31) Carbon tetrachloride	5.530	117	25048	6.567	ug/L	95
33) Benzene	5.778	78	74567	6.484	ug/L	100
34) Trichloroethene	6.546	95	18756	6.640	ug/L	99
35) Methylcyclohexane	6.765	83	27215	6.647	ug/L	98
37) 1,2-Dichloropropane	6.794	63	20587m	6.302	ug/L	
38) Bromodichloromethane	7.106	83	24872	6.061	ug/L	95
39) cis-1,3-Dichloropropene	7.610	75	26717	5.775	ug/L	97
40) 4-Methyl-2-pentanone	7.794	43	60336	12.296	ug/L	99
42) Toluene	7.970	91	73830	6.156	ug/L	98
44) trans-1,3-Dichloropropene	8.212	75	25838	5.765	ug/L	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.401	97	18565	5.621	ug/L	99
46) Tetrachloroethene	8.556	164	13446	5.701	ug/L	98
48) 2-Hexanone	8.684	43	53185	13.046	ug/L	97
49) Dibromochloromethane	8.813	129	18844	5.195	ug/L	95
50) 1,2-Dibromoethane	8.925	107	19099	5.610	ug/L	99
51) Chlorobenzene	9.449	112	47711	5.644	ug/L	97
52) Ethylbenzene	9.572	91	72746	5.841	ug/L	97
53) m,p-Xylene	9.697	106	27245	5.609	ug/L	99
54) o-Xylene	10.102	106	27187	5.564	ug/L	100
55) Styrene	10.115	104	41834	5.102	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.784	83	32653	5.046	ug/L	100
59) Bromoform	10.292	173	14190	5.619	ug/L	95
60) 1,2,3-Trichloropropane	10.822	75	27567	6.578	ug/L	98
61) Isopropylbenzene	10.485	105	65779	6.449	ug/L	98
62) 1,3,5-Trimethylbenzene	11.089	105	35653	6.583	ug/L	98
63) 1,2,4-Trimethylbenzene	11.469	105	49627	6.024	ug/L	95
64) 1,3-Dichlorobenzene	11.748	146	33765	6.132	ug/L	99
65) 1,4-Dichlorobenzene	11.838	146	34623	6.132	ug/L	96
67) 1,2-Dichlorobenzene	12.215	146	34826	5.986	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.996	75	7638	6.721	ug/L	97
69) 1,3,5-Trichlorobenzene	13.218	180	24641	6.071	ug/L	97
70) 1,2,4-trichlorobenzene	13.842	180	23841	7.387	ug/L	96
71) Naphthalene	14.089	128	111612	11.736	ug/L	99
72) 1,2,3-Trichlorobenzene	14.330	180	26595	8.032	ug/L	95

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

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Chromatogram plot showing Abundance vs Time (min). The y-axis ranges from 0 to 800,000. The x-axis ranges from 2.00 to 17.00 minutes. Numerous peaks are labeled with chemical names and retention times. The most prominent peak is 1,4-Difluorobenzene at approximately 6.5 minutes.

Retention Time (min)	Chemical Name
1.5	1,1,1-Trichloroethane, T
1.8	Chloroform, T
2.1	1,1,2-Trichloroethane, T
2.4	1,1,1-Trichloroethane, T
2.7	1,1,2-Trichloroethane, T
3.0	1,1,1-Trichloroethane, T
3.3	1,1,2-Trichloroethane, T
3.6	1,1,1-Trichloroethane, T
3.9	1,1,2-Trichloroethane, T
4.2	1,1,1-Trichloroethane, T
4.5	1,1,2-Trichloroethane, T
4.8	1,1,1-Trichloroethane, T
5.1	1,1,2-Trichloroethane, T
5.4	1,1,1-Trichloroethane, T
5.7	1,1,2-Trichloroethane, T
6.0	1,1,1-Trichloroethane, T
6.3	1,1,2-Trichloroethane, T
6.5	1,4-Difluorobenzene, I
6.8	1,1,1-Trichloroethane, T
7.1	1,1,2-Trichloroethane, T
7.4	1,1,1-Trichloroethane, T
7.7	1,1,2-Trichloroethane, T
8.0	1,1,1-Trichloroethane, T
8.3	1,1,2-Trichloroethane, T
8.6	1,1,1-Trichloroethane, T
8.9	1,1,2-Trichloroethane, T
9.2	1,1,1-Trichloroethane, T
9.5	1,1,2-Trichloroethane, T
9.8	1,1,1-Trichloroethane, T
10.1	1,1,2-Trichloroethane, T
10.4	1,1,1-Trichloroethane, T
10.7	1,1,2-Trichloroethane, T
11.0	1,1,1-Trichloroethane, T
11.3	1,1,2-Trichloroethane, T
11.6	1,1,1-Trichloroethane, T
11.9	1,1,2-Trichloroethane, T
12.2	1,1,1-Trichloroethane, T
12.5	1,1,2-Trichloroethane, T
12.8	1,1,1-Trichloroethane, T
13.1	1,1,2-Trichloroethane, T
13.4	1,1,1-Trichloroethane, T
13.7	1,1,2-Trichloroethane, T
14.0	1,1,1-Trichloroethane, T
14.3	1,1,2-Trichloroethane, T
14.6	1,1,1-Trichloroethane, T
14.9	1,1,2-Trichloroethane, T
15.2	1,1,1-Trichloroethane, T
15.5	1,1,2-Trichloroethane, T
15.8	1,1,1-Trichloroethane, T
16.1	1,1,2-Trichloroethane, T
16.4	1,1,1-Trichloroethane, T
16.7	1,1,2-Trichloroethane, T
17.0	1,1,1-Trichloroethane, T