

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
 Data File : VX045008.D
 Acq On : 21 Feb 2025 09:58
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/24/2025
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 00:46:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 00:21:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.885	128	19850	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	107647	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	98661	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	57190	29.664	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.867%	
60) 4-Bromofluorobenzene	11.079	95	53212	28.855	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	96.200%	
63) Toluene-d8	8.641	98	163004	29.865	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.533%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	8269	4.942	ug/l	90
3) Chloromethane	1.295	50	9993	4.986	ug/l	99
4) Vinyl Chloride	1.374	62	9648	4.989	ug/l	97
5) Bromomethane	1.593	94	3693	5.486	ug/l	95
6) Chloroethane	1.666	64	6026	5.753	ug/l #	88
7) Trichlorofluoromethane	1.874	101	13174	5.068	ug/l	95
8) Diethyl Ether	2.130	74	4984	5.068	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	7865	5.095	ug/l	99
10) 1,1-Dichloroethene	2.313	96	7277	4.826	ug/l	90
11) Methyl Iodide	2.447	142	6353	3.722	ug/l	92
12) Methyl Acetate	2.697	43	8331	4.758	ug/l	99
13) Acrolein	2.233	56	8331	23.736	ug/l	98
14) Acrylonitrile	3.063	53	19916	23.285	ug/l	98
15) Acetone	2.380	58	6140	26.175	ug/l	89
16) Carbon Disulfide	2.502	76	20739	4.849	ug/l	98
17) Allyl chloride	2.654	41	13453	4.770	ug/l	99
18) Methylene Chloride	2.782	84	8146	4.803	ug/l	96
19) trans-1,2-Dichloroethene	3.081	96	7385	4.841	ug/l	90
20) Diisopropyl ether	3.751	45	25687	4.740	ug/l #	87
21) 1,1-Dichloroethane	3.599	63	14970	4.967	ug/l	99
22) cis-1,2-Dichloroethene	4.477	96	9065	4.959	ug/l	95
23) tert-Butyl Alcohol	2.971	59	7280m	24.352	ug/l	
24) Methyl tert-Butyl Ether	3.105	73	23498	4.775	ug/l	96
25) Chloroform	5.087	83	14134	4.855	ug/l	99
26) Cyclohexane	5.452	56	13400	4.816	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	9965	5.032	ug/l	97
30) 2-Butanone	4.562	43	28712	25.103	ug/l	97
31) 2,2-Dichloropropane	4.459	77	11020	4.922	ug/l #	69
32) 1,1,1-Trichloroethane	5.373	97	12088	5.038	ug/l	99
33) Carbon Tetrachloride	5.666	117	10269	5.071	ug/l	91
34) Benzene	6.031	78	31321	5.044	ug/l	97
35) Methacrylonitrile	4.916	41	5515m	4.506	ug/l	
36) 1,2-Dichloroethane	6.074	62	10725	5.045	ug/l #	82
37) Trichloroethene	7.123	130	7309	5.031	ug/l	95
38) Methylcyclohexane	7.373	83	13407	5.042	ug/l	95
39) 1,2-Dichloropropane	7.428	63	7710	4.994	ug/l	96
40) Dibromomethane	7.574	93	5709	5.153	ug/l	97
41) Bromodichloromethane	7.818	83	10949	4.973	ug/l	97
42) Vinyl Acetate	3.715	43	101864	22.951	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	9903	4.617	ug/l #	78
44) Isopropyl Acetate	6.336	43	15951	4.518	ug/l	95
45) 1,4-Dioxane	7.665	88	3476	94.718	ug/l #	94
46) Methyl methacrylate	7.696	41	7550	4.362	ug/l	95
47) n-amyl Acetate	10.842	43	12931	4.221	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	9461	4.458	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	11016	4.585	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	7268	5.030	ug/l	96
51) Ethyl methacrylate	9.116	69	9742	4.287	ug/l	97
52) 1,3-Dichloropropane	9.305	76	12611	4.981	ug/l	99
53) Dibromochloromethane	9.519	129	7657	4.791	ug/l	97
54) 1,2-Dibromoethane	9.610	107	7119	4.851	ug/l	95
55) 2-Chloroethyl vinyl ether	8.238	63	26987	23.123	ug/l	97
56) Bromoform	10.799	173	4498	4.491	ug/l	97
58) 4-Methyl-2-Pentanone	8.568	43	52017	23.177	ug/l	99
59) 2-Hexanone	9.427	43	36637	22.584	ug/l	99
61) Tetrachloroethene	9.269	164	6401	5.269	ug/l	99
62) Toluene	8.714	91	33141	5.071	ug/l	95
64) Chlorobenzene	10.073	112	20106	4.965	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	6593	4.934	ug/l	98
66) Ethyl Benzene	10.189	91	34439	4.813	ug/l	97
67) m/p-Xylenes	10.299	106	25804	9.679	ug/l	98
68) o-Xylene	10.640	106	12618	4.824	ug/l	97
69) Styrene	10.653	104	20710	4.741	ug/l	97
70) Isopropylbenzene	10.957	105	32576	4.826	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	10940	4.929	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	8856m	4.851	ug/l	
73) Bromobenzene	11.195	156	7592	4.886	ug/l	99
74) n-propylbenzene	11.299	91	37507	4.669	ug/l	99
75) 2-Chlorotoluene	11.360	91	24091	4.961	ug/l	97
76) 1,3,5-Trimethylbenzene	11.445	105	26935	4.837	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	2182	3.552	ug/l	82
78) 4-Chlorotoluene	11.451	91	25983	4.800	ug/l	99
79) tert-butylbenzene	11.713	119	26773	4.772	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	26568	4.763	ug/l	97
81) sec-Butylbenzene	11.884	105	33807	4.801	ug/l	99
82) p-Isopropyltoluene	12.006	119	26547	4.653	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	14060	4.863	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	13556	4.755	ug/l	95
85) n-Butylbenzene	12.329	91	22634	4.344	ug/l	99
86) Hexachloroethane	12.536	117	4340	4.313	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	14188	5.001	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	2067	4.810	ug/l	86
89) 1,2,4-Trichlorobenzene	13.585	180	7586	4.412	ug/l	98
90) Hexachlorobutadiene	13.725	225	3570	5.091	ug/l	96
91) Naphthalene	13.774	128	26410	4.356	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	8240	4.655	ug/l	99

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

