

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121222\
 Data File : VX033363.D
 Acq On : 12 Dec 2022 10:35
 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 12/13/2022
 Supervised By : Mahesh Dadoda 12/13/2022

Quant Time: Dec 12 12:25:29 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 12 12:25:09 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	12167	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	84063	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	89935	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	33578	28.607	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.367%		
60) 4-Bromofluorobenzene	11.079	95	50247	29.208	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.367%		
63) Toluene-d8	8.647	98	91654	30.198	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.667%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	5151	4.784	ug/l	91
3) Chloromethane	1.294	50	5120	4.792	ug/l	94
4) Vinyl Chloride	1.374	62	6282	5.199	ug/l	93
5) Bromomethane	1.618	94	4805	4.479	ug/l	95
6) Chloroethane	1.691	64	5197	5.446	ug/l	92
7) Trichlorofluoromethane	1.892	101	13911	5.973	ug/l	100
8) Diethyl Ether	2.130	74	4384	5.822	ug/l	76
9) 1,1,2-Trichlorotrifluo...	2.331	101	7069	5.706	ug/l	95
10) 1,1-Dichloroethene	2.319	96	6504	5.495	ug/l	93
11) Methyl Iodide	2.453	142	5920	4.652	ug/l	90
12) Methyl Acetate	2.703	43	8061	4.598	ug/l	90
13) Acrolein	2.239	56	6499	27.796	ug/l	97
14) Acrylonitrile	3.068	53	14933	23.759	ug/l	98
15) Acetone	2.392	58	5154	31.535	ug/l	85
16) Carbon Disulfide	2.514	76	17691	6.004	ug/l	99
17) Allyl chloride	2.666	41	9798	5.210	ug/l	88
18) Methylene Chloride	2.788	84	7320	5.363	ug/l	89
19) trans-1,2-Dichloroethene	3.093	96	6955	5.334	ug/l #	76
20) Diisopropyl ether	3.757	45	20566	4.877	ug/l #	93
21) 1,1-Dichloroethane	3.611	63	12410	5.242	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	7940	5.216	ug/l	87
23) tert-Butyl Alcohol	3.008	59	7088m	34.731	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	21531	5.080	ug/l	92
25) Chloroform	5.093	83	14333	5.428	ug/l	97
26) Cyclohexane	5.477	56	10916	5.280	ug/l #	83
29) 1,1-Dichloropropene	5.690	75	9879	5.299	ug/l	98
30) 2-Butanone	4.568	43	21878	25.167	ug/l #	89
31) 2,2-Dichloropropane	4.477	77	10535	6.607	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	12904	5.502	ug/l	94
33) Carbon Tetrachloride	5.678	117	12165	5.908	ug/l	96
34) Benzene	6.031	78	28625	5.449	ug/l	96
35) Methacrylonitrile	4.922	41	4573	4.645	ug/l	94
36) 1,2-Dichloroethane	6.086	62	11218	5.187	ug/l #	93
37) Trichloroethene	7.129	130	7870	5.355	ug/l #	81
38) Methylcyclohexane	7.379	83	11841	5.669	ug/l	90
39) 1,2-Dichloropropane	7.434	63	6995	5.261	ug/l	100
40) Dibromomethane	7.586	93	5569	5.486	ug/l	98
41) Bromodichloromethane	7.818	83	11158	5.766	ug/l	95
42) Vinyl Acetate	3.721	43	75895	22.721	ug/l #	92

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	8035m	4.595	ug/l	
44) Isopropyl Acetate	6.336	43	13528	4.616	ug/l	95
45) 1,4-Dioxane	7.714	88	3098m	110.059	ug/l	
46) Methyl methacrylate	7.696	41	6495	4.403	ug/l	85
47) n-amyl Acetate	10.841	43	10264	3.940	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	10115	5.095	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	11206	5.346	ug/l #	86
50) 1,1,2-Trichloroethane	9.153	97	7120	5.101	ug/l	93
51) Ethyl methacrylate	9.116	69	9487	4.551	ug/l	89
52) 1,3-Dichloropropane	9.311	76	12043	5.277	ug/l	99
53) Dibromochloromethane	9.519	129	8804	5.800	ug/l	100
54) 1,2-Dibromoethane	9.610	107	7683	5.110	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	25637	25.448	ug/l	94
56) Bromoform	10.799	173	6001	5.522	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	41903	23.801	ug/l	92
59) 2-Hexanone	9.433	43	31130	24.016	ug/l	93
61) Tetrachloroethene	9.275	164	7471	5.944	ug/l	93
62) Toluene	8.720	91	31863	5.448	ug/l	99
64) Chlorobenzene	10.079	112	20249	5.600	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.165	131	7977	5.791	ug/l	98
66) Ethyl Benzene	10.195	91	34942	5.325	ug/l	94
67) m/p-Xylenes	10.299	106	27194	10.652	ug/l	90
68) o-Xylene	10.640	106	13081	5.222	ug/l	89
69) Styrene	10.659	104	20959	5.033	ug/l	95
70) Isopropylbenzene	10.963	105	35158	5.256	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	10671	5.260	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	9058m	5.141	ug/l	
73) Bromobenzene	11.201	156	8804	5.418	ug/l	89
74) n-propylbenzene	11.305	91	40009	5.264	ug/l	93
75) 2-Chlorotoluene	11.366	91	25089	5.452	ug/l	93
76) 1,3,5-Trimethylbenzene	11.451	105	29051	5.137	ug/l	96
77) t-1,4-Dichloro-2-butene	11.018	75	2667	4.960	ug/l	87
78) 4-Chlorotoluene	11.457	91	27835	5.251	ug/l	94
79) tert-butylbenzene	11.713	119	29297	5.331	ug/l	95
80) 1,2,4-Trimethylbenzene	11.750	105	28826	5.213	ug/l	94
81) sec-Butylbenzene	11.890	105	34850	5.267	ug/l	93
82) p-Isopropyltoluene	12.012	119	29762	5.338	ug/l	95
83) 1,3-Dichlorobenzene	11.969	146	15779	5.292	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	16407	5.480	ug/l	99
85) n-Butylbenzene	12.335	91	24079	5.095	ug/l	94
86) Hexachloroethane	12.536	117	5431	5.933	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	15974	5.389	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	2242	5.209	ug/l #	77
89) 1,2,4-Trichlorobenzene	13.591	180	9061	4.978	ug/l	96
90) Hexachlorobutadiene	13.725	225	4230	5.774	ug/l	97
91) Naphthalene	13.774	128	28454	4.631	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	9360	5.113	ug/l	95

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

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