

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112423\
 Data File : VX039017.D
 Acq On : 24 Nov 2023 10:53
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/27/2023
 Supervised By : Mahesh Dadoda 11/27/2023

Quant Time: Nov 27 03:08:52 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:05:03 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	11373	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	86778	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	107911	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	44253	28.442	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	94.800%	
60) 4-Bromofluorobenzene	11.079	95	71921	30.514	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	101.700%	
63) Toluene-d8	8.647	98	127866	29.970	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.900%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	227270	133.511	ug/l	99
3) Chloromethane	1.294	50	252248	129.417	ug/l	96
4) Vinyl Chloride	1.374	62	256787	130.500	ug/l	100
5) Bromomethane	1.599	94	137356	114.128	ug/l	99
6) Chloroethane	1.672	64	150770	127.488	ug/l	98
7) Trichlorofluoromethane	1.880	101	355027	130.726	ug/l	95
8) Diethyl Ether	2.130	74	137507	131.902	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.325	101	204225	133.073	ug/l	97
10) 1,1-Dichloroethene	2.312	96	208040	134.481	ug/l	95
11) Methyl Iodide	2.447	142	242379	142.981	ug/l	98
12) Methyl Acetate	2.703	43	624507	129.436	ug/l	98
13) Acrolein	2.233	56	266371	630.208	ug/l	100
14) Acrylonitrile	3.062	53	773503	655.475	ug/l	98
15) Acetone	2.380	58	238515	556.048	ug/l	98
16) Carbon Disulfide	2.508	76	614670	131.193	ug/l	97
17) Allyl chloride	2.660	41	404330	131.661	ug/l	95
18) Methylene Chloride	2.788	84	241977	131.958	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	233558	133.490	ug/l	96
20) Diisopropyl ether	3.763	45	774553	132.534	ug/l #	85
21) 1,1-Dichloroethane	3.605	63	426155	131.151	ug/l	100
22) cis-1,2-Dichloroethene	4.483	96	267539	131.944	ug/l	99
23) tert-Butyl Alcohol	2.983	59	405545	620.764	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	750126	131.631	ug/l	99
25) Chloroform	5.092	83	434416	133.205	ug/l	97
26) Cyclohexane	5.470	56	389444	132.422	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	328654	135.103	ug/l	99
30) 2-Butanone	4.556	43	1167817	637.619	ug/l	99
31) 2,2-Dichloropropane	4.471	77	376862	135.495	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	388232	138.078	ug/l	97
33) Carbon Tetrachloride	5.678	117	332869	140.548	ug/l	98
34) Benzene	6.037	78	960782	135.581	ug/l	98
35) Methacrylonitrile	4.922	41	225838	139.204	ug/l	97
36) 1,2-Dichloroethane	6.086	62	347465	133.632	ug/l	100
37) Trichloroethene	7.123	130	244097	135.717	ug/l	98
38) Methylcyclohexane	7.379	83	416339	137.358	ug/l	99
39) 1,2-Dichloropropane	7.427	63	254366	136.104	ug/l	98
40) Dibromomethane	7.580	93	179364	135.833	ug/l	98
41) Bromodichloromethane	7.818	83	350908	138.326	ug/l	99
42) Vinyl Acetate	3.721	43	2965135	679.714	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	424601	134.751	ug/l	100
44) Isopropyl Acetate	6.336	43	684880	137.879	ug/l	100
45) 1,4-Dioxane	7.659	88	140951	2779.631	ug/l	98
46) Methyl methacrylate	7.690	41	387417	136.414	ug/l	97
47) n-amyl Acetate	10.841	43	609332	144.932	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	409190	139.110	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	421674	138.963	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	248108	138.316	ug/l	98
51) Ethyl methacrylate	9.116	69	321258	143.073	ug/l	95
52) 1,3-Dichloropropane	9.305	76	412613	134.148	ug/l	100
53) Dibromochloromethane	9.518	129	269580	139.937	ug/l	98
54) 1,2-Dibromoethane	9.610	107	271071	137.801	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	1003469	705.451	ug/l	100
56) Bromoform	10.799	173	203419	146.306	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	2216109	677.217	ug/l	98
59) 2-Hexanone	9.433	43	1802080	670.891	ug/l	99
61) Tetrachloroethene	9.275	164	189413	135.004	ug/l	98
62) Toluene	8.720	91	1054826	137.682	ug/l	100
64) Chlorobenzene	10.079	112	639479	137.221	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	236114	140.683	ug/l	99
66) Ethyl Benzene	10.195	91	1185980	135.946	ug/l	99
67) m/p-Xylenes	10.299	106	880457	273.124	ug/l	97
68) o-Xylene	10.640	106	432721	138.575	ug/l	98
69) Styrene	10.652	104	654902	141.711	ug/l	99
70) Isopropylbenzene	10.963	105	1156493	138.423	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	430578	138.053	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	356851m	99.564	ug/l	
73) Bromobenzene	11.195	156	265758	139.714	ug/l	98
74) n-propylbenzene	11.305	91	1424220	139.135	ug/l	99
75) 2-Chlorotoluene	11.366	91	828146	137.898	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	997603	138.602	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	157421	150.531	ug/l	96
78) 4-Chlorotoluene	11.457	91	966719	136.915	ug/l	100
79) tert-butylbenzene	11.713	119	954112	139.407	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	1007365	139.843	ug/l	100
81) sec-Butylbenzene	11.890	105	1210566	139.916	ug/l	100
82) p-Isopropyltoluene	12.006	119	1030819	140.575	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	509847	140.059	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	515536	138.023	ug/l	100
85) n-Butylbenzene	12.329	91	1023543	141.354	ug/l	100
86) Hexachloroethane	12.536	117	203535	146.491	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	479259	136.913	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	111317	139.554	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	325580	140.287	ug/l	98
90) Hexachlorobutadiene	13.725	225	115996	139.976	ug/l	98
91) Naphthalene	13.774	128	1199120	140.098	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	317654	141.307	ug/l	99

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

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