

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070920\
 Data File : VX017305.D
 Acq On : 09 Jul 2020 14:18
 Operator : JC/SP
 Sample : L3216-07 2.5PPB LOD
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2020

Manual Integrations
 APPROVED

MMDadoda
 7/10/2020 12:36:43 PM

Quant Time: Jul 10 07:00:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X070920W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 09 12:25:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	58627	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	302665	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	286312	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	128301	30.45	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.50%
60) 4-Bromofluorobenzene	11.12	95	133687	27.37	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.23%
63) Toluene-d8	8.70	98	361898	29.88	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	7572	2.955 ug/l	96
3) Chloromethane	1.31	50	6800	2.491 ug/l	92
4) Vinyl Chloride	1.39	62	6896	2.451 ug/l	92
5) Bromomethane	1.63	94	5859	3.125 ug/l	96
6) Chloroethane	1.72	64	4610	2.478 ug/l	98
7) Trichlorofluoromethane	1.92	101	12941	2.589 ug/l	99
8) Diethyl Ether	2.17	74	4496	2.536 ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	7293	2.669 ug/l	96
10) 1,1-Dichloroethene	2.36	96	6920	2.569 ug/l	87
11) Methyl Iodide	2.49	142	5674	1.789 ug/l	99
12) Methyl Acetate	2.75	43	9087m	2.421 ug/l	
13) Acrolein	2.28	56	6036	12.434 ug/l	95
14) Acrylonitrile	3.12	53	21905	12.933 ug/l	95
15) Acetone	2.42	58	5747	13.454 ug/l	92
16) Carbon Disulfide	2.55	76	17164	2.349 ug/l	99
17) Allyl chloride	2.71	41	12645	2.523 ug/l	96
18) Methylene Chloride	2.83	84	9583	2.888 ug/l	93
19) trans-1,2-Dichloroethene	3.14	96	8265	2.624 ug/l	95
20) Diisopropyl ether	3.82	45	24137	2.409 ug/l	93
21) 1,1-Dichloroethane	3.67	63	14352	2.555 ug/l	97
22) cis-1,2-Dichloroethene	4.57	96	8999	2.504 ug/l	95
23) tert-Butyl Alcohol	3.01	59	8843	12.653 ug/l #	100
24) Methyl tert-Butyl Ether	3.17	73	25037	2.434 ug/l	99
25) Chloroform	5.18	83	15248m	2.548 ug/l	
26) Cyclohexane	5.55	56	9534	2.179 ug/l #	66
29) 1,1-Dichloropropene	5.77	75	9943	2.382 ug/l	98
30) 2-Butanone	4.64	43	27643	12.109 ug/l #	83
31) 2,2-Dichloropropane	4.54	77	14004m	2.678 ug/l	
32) 1,1,1-Trichloroethane	5.46	97	14057	2.587 ug/l	98
33) Carbon Tetrachloride	5.76	117	12531	2.501 ug/l #	89
34) Benzene	6.11	78	31270	2.518 ug/l	96
35) Methacrylonitrile	5.01	41	6411m	2.508 ug/l	
36) 1,2-Dichloroethane	6.16	62	12025	2.459 ug/l #	87
37) Trichloroethene	7.19	130	9956	2.665 ug/l	87
38) Methylcyclohexane	7.44	83	10629	2.417 ug/l	98
39) 1,2-Dichloropropane	7.49	63	8233	2.537 ug/l	94
40) Dibromomethane	7.64	93	6188	2.647 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.88	83	12074	2.475	ug/l #	97
42) Vinyl Acetate	3.78	43	100422	11.510	ug/l	98
43) Ethyl Acetate	4.80	43	11014	2.453	ug/l	97
44) Isopropyl Acetate	6.42	43	18508	2.477	ug/l	97
45) 1,4-Dioxane	7.72	88	3442	48.331	ug/l #	64
46) Methyl methacrylate	7.75	41	7819	2.148	ug/l	93
47) n-amyl Acetate	10.88	43	13343	2.017	ug/l	98
48) t-1,3-Dichloropropene	9.02	75	11875	2.205	ug/l	97
49) cis-1,3-Dichloropropene	8.42	75	12817	2.274	ug/l	89
50) 1,1,2-Trichloroethane	9.20	97	8917	2.575	ug/l	92
51) Ethyl methacrylate	9.16	69	10792	2.139	ug/l	99
52) 1,3-Dichloropropane	9.35	76	13617	2.414	ug/l	94
53) Dibromochloromethane	9.57	129	9524	2.253	ug/l	96
54) 1,2-Dibromoethane	9.65	107	8987	2.427	ug/l	98
55) 2-Chloroethyl vinyl ether	8.29	63	29487	12.560	ug/l	99
56) Bromoform	10.84	173	7406	2.246	ug/l	96
58) 4-Methyl-2-Pentanone	8.62	43	53853	11.871	ug/l	97
59) 2-Hexanone	9.47	43	39318	11.369	ug/l	99
61) Tetrachloroethene	9.32	164	10100	2.769	ug/l	92
62) Toluene	8.76	91	33583	2.478	ug/l	98
64) Chlorobenzene	10.12	112	23329	2.580	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.21	131	8875	2.402	ug/l	95
66) Ethyl Benzene	10.24	91	36207	2.374	ug/l	98
67) m/p-Xylenes	10.34	106	26617	4.517	ug/l	100
68) o-Xylene	10.68	106	12846	2.294	ug/l	96
69) Styrene	10.70	104	20438	2.058	ug/l	98
70) Isopropylbenzene	11.00	105	34004	2.214	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.25	83	11960	2.483	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	12266m	2.592	ug/l	
73) Bromobenzene	11.24	156	11037	2.557	ug/l	97
74) n-propylbenzene	11.34	91	38713	2.176	ug/l	99
75) 2-Chlorotoluene	11.40	91	25548	2.355	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	28880	2.192	ug/l	99
77) t-1,4-Dichloro-2-butene	11.05	75	3750	2.078	ug/l	96
78) 4-Chlorotoluene	11.49	91	29152	2.267	ug/l	99
79) tert-butylbenzene	11.76	119	27434	2.145	ug/l	97
80) 1,2,4-Trimethylbenzene	11.79	105	28275	2.127	ug/l	100
81) sec-Butylbenzene	11.93	105	31849	2.161	ug/l	98
82) p-Isopropyltoluene	12.05	119	29034	2.083	ug/l	98
83) 1,3-Dichlorobenzene	12.01	146	18897	2.433	ug/l	96
84) 1,4-Dichlorobenzene	12.08	146	18500	2.354	ug/l	99
85) n-Butylbenzene	12.37	91	24185	2.054	ug/l	100
86) Hexachloroethane	12.58	117	6273	2.327	ug/l	99
87) 1,2-Dichlorobenzene	12.38	146	17577	2.367	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	2947	2.525	ug/l	88
89) 1,2,4-Trichlorobenzene	13.63	180	10647	2.114	ug/l	98
90) Hexachlorobutadiene	13.76	225	4981	2.465	ug/l	98
91) Naphthalene	13.82	128	30117	1.950	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	11184	2.232	ug/l	98

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

