

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072921\
 Data File : VX023500.D
 Acq On : 28 Jul 2021 19:19
 Operator : JC/MD
 Sample : M2940-07 2.5PPB LOD
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2021

Manual Integrations
 APPROVED

MMDadoda
 7/30/2021 6:17:30 PM

Quant Time: Jul 29 03:16:18 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X072921W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 29 03:13:17 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	35740	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	196366	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	174787	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	81608	30.065	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.233%	
60) 4-Bromofluorobenzene	11.085	95	80096	28.355	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 94.533%	
63) Toluene-d8	8.653	98	241138	30.581	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.933%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	4882	2.337	ug/l	93
3) Chloromethane	1.295	50	5917	2.513	ug/l	96
4) Vinyl Chloride	1.374	62	5854	2.488	ug/l	100
5) Bromomethane	1.605	94	5434	3.810	ug/l	93
6) Chloroethane	1.685	64	4405	3.004	ug/l	93
7) Trichlorofluoromethane	1.886	101	8766	2.341	ug/l	98
8) Diethyl Ether	2.142	74	3360	2.487	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.331	101	4968	2.372	ug/l	98
10) 1,1-Dichloroethene	2.319	96	5134	2.538	ug/l	91
11) Methyl Iodide	2.459	142	5253	1.852	ug/l	94
12) Methyl Acetate	2.715	43	7387	2.421	ug/l	96
13) Acrolein	2.239	56	5205	14.776	ug/l	96
14) Acrylonitrile	3.075	53	16307	11.943	ug/l	96
15) Acetone	2.392	58	4936	12.749	ug/l	68
16) Carbon Disulfide	2.508	76	10910	2.250	ug/l	95
17) Allyl chloride	2.666	41	8577	2.313	ug/l	99
18) Methylene Chloride	2.794	84	7463	3.093	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	5216	2.405	ug/l	90
20) Diisopropyl ether	3.776	45	17000	2.272	ug/l	96
21) 1,1-Dichloroethane	3.623	63	9275	2.284	ug/l	97
22) cis-1,2-Dichloroethene	4.495	96	5941	2.317	ug/l	93
23) tert-Butyl Alcohol	2.977	59	7666	12.748	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	16391	2.276	ug/l	99
25) Chloroform	5.111	83	9899	2.355	ug/l	96
26) Cyclohexane	5.471	56	8406m	2.235	ug/l	
29) 1,1-Dichloropropene	5.702	75	7122	2.370	ug/l #	51
30) 2-Butanone	4.574	43	22863	11.604	ug/l #	98
31) 2,2-Dichloropropane	4.483	77	7101	2.183	ug/l #	77
32) 1,1,1-Trichloroethane	5.391	97	7991	2.257	ug/l	96
33) Carbon Tetrachloride	5.696	117	6485m	2.113	ug/l	
34) Benzene	6.044	78	21467	2.407	ug/l	95
35) Methacrylonitrile	4.928	41	4806m	2.417	ug/l	
36) 1,2-Dichloroethane	6.092	62	8366	2.477	ug/l #	89
37) Trichloroethene	7.129	130	5886	2.432	ug/l	99
38) Methylcyclohexane	7.391	83	8587	2.260	ug/l	98
39) 1,2-Dichloropropane	7.440	63	5417	2.324	ug/l	94
40) Dibromomethane	7.592	93	3673	2.277	ug/l	95
41) Bromodichloromethane	7.830	83	6040	2.066	ug/l	91
42) Vinyl Acetate	3.733	43	70670	10.941	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.733	43	9254m	2.473	ug/l	
44) Isopropyl Acetate	6.348	43	13279	2.242	ug/l	99
45) 1,4-Dioxane	7.671	88	3138	51.902	ug/l #	89
46) Methyl methacrylate	7.702	41	6454	2.266	ug/l	97
47) n-amyl Acetate	10.848	43	10040	2.024	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	6374	1.866	ug/l	98
49) cis-1,3-Dichloropropene	8.373	75	6905	1.892	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	5228	2.206	ug/l	94
51) Ethyl methacrylate	9.122	69	7670	2.007	ug/l	91
52) 1,3-Dichloropropane	9.311	76	9391	2.386	ug/l	98
53) Dibromochloromethane	9.525	129	4465	1.939	ug/l	97
54) 1,2-Dibromoethane	9.616	107	5591	2.227	ug/l	96
55) 2-Chloroethyl vinyl ether	8.251	63	21211	11.211	ug/l	99
56) Bromoform	10.805	173	2754	1.693	ug/l #	94
58) 4-Methyl-2-Pentanone	8.580	43	42915	11.742	ug/l	99
59) 2-Hexanone	9.433	43	33438	11.836	ug/l	97
61) Tetrachloroethene	9.281	164	5901	2.588	ug/l	96
62) Toluene	8.720	91	24177	2.502	ug/l	95
64) Chlorobenzene	10.086	112	14207	2.360	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	4548	2.110	ug/l	98
66) Ethyl Benzene	10.201	91	24274	2.274	ug/l	99
67) m/p-Xylenes	10.305	106	18560	4.569	ug/l	98
68) o-Xylene	10.646	106	9291	2.301	ug/l	97
69) Styrene	10.659	104	14192	2.170	ug/l	100
70) Isopropylbenzene	10.964	105	23491	2.235	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	8383	2.487	ug/l	96
72) 1,2,3-Trichloropropane	11.244	75	7772m	2.479	ug/l	
73) Bromobenzene	11.201	156	6283	2.409	ug/l	92
74) n-propylbenzene	11.305	91	25846	2.129	ug/l	100
75) 2-Chlorotoluene	11.366	91	16673	2.293	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	20300	2.321	ug/l	96
77) t-1,4-Dichloro-2-butene	11.018	75	1718	1.574	ug/l	83
78) 4-Chlorotoluene	11.457	91	18454	2.260	ug/l	100
79) tert-butylbenzene	11.719	119	19713	2.316	ug/l	98
80) 1,2,4-Trimethylbenzene	11.756	105	18682	2.168	ug/l	100
81) sec-Butylbenzene	11.896	105	22681	2.085	ug/l	98
82) p-Isopropyltoluene	12.012	119	19099	2.127	ug/l	99
83) 1,3-Dichlorobenzene	11.976	146	10595	2.293	ug/l	97
84) 1,4-Dichlorobenzene	12.043	146	10738	2.339	ug/l	97
85) n-Butylbenzene	12.335	91	16060	2.022	ug/l	97
86) Hexachloroethane	12.542	117	2883	2.038	ug/l	87
87) 1,2-Dichlorobenzene	12.335	146	10607	2.385	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1313	1.809	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	5257	1.903	ug/l	97
90) Hexachlorobutadiene	13.731	225	2846	2.312	ug/l	99
91) Naphthalene	13.780	128	17427	1.814	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	5423	1.940	ug/l	93

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

