

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061721\
 Data File : VN067375.D
 Acq On : 17 Jun 2021 13:58
 Operator : JC/MD
 Sample : M2262-09 2.5PPB MDL
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2021

Manual Integrations
 APPROVED

MMDadoda
 6/18/2021 9:12:51 AM

Quant Time: Jun 18 04:42:25 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N061121W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 12 09:13:15 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	63281	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	395446	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	347564	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	199489	29.997	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.000%			
60) 4-Bromofluorobenzene	12.733	95	184217	27.454	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 91.500%			
63) Toluene-d8	10.443	98	528653	31.893	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 106.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.070	85	12046	2.552	ug/l	95
3) Chloromethane	2.301	50	12241	2.419	ug/l	94
4) Vinyl Chloride	2.445	62	12050	2.412	ug/l	89
5) Bromomethane	2.856	94	8451m	3.370	ug/l	
6) Chloroethane	3.022	64	7443	2.551	ug/l #	82
7) Trichlorofluoromethane	3.373	101	16626	2.491	ug/l	100
8) Diethyl Ether	3.829	74	6703m	2.465	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.199	101	9927m	2.516	ug/l	
10) 1,1-Dichloroethene	4.181	96	9729	2.538	ug/l	93
11) Methyl Iodide	4.417	142	8161	1.770	ug/l	97
12) Methyl Acetate	4.857	43	15385m	2.706	ug/l	
13) Acrolein	4.039	56	8837m	13.023	ug/l	
14) Acrylonitrile	5.562	53	31256m	13.092	ug/l	
15) Acetone	4.288	58	7849m	13.145	ug/l	
16) Carbon Disulfide	4.524	76	33608	2.765	ug/l	98
17) Allyl chloride	4.846	41	23435m	2.810	ug/l	
18) Methylene Chloride	5.090	84	13854m	2.946	ug/l	
19) trans-1,2-Dichloroethene	5.591	96	10963m	2.624	ug/l	
20) Diisopropyl ether	6.503	45	37209	2.299	ug/l	95
21) 1,1-Dichloroethane	6.393	63	23733	2.648	ug/l	98
22) cis-1,2-Dichloroethene	7.335	96	12756m	2.569	ug/l	
23) tert-Butyl Alcohol	5.390	59	14062m	13.289	ug/l	
24) Methyl tert-Butyl Ether	5.618	73	39910m	2.451	ug/l	
25) Chloroform	7.820	83	22455m	2.447	ug/l	
26) Cyclohexane	8.102	56	21724	2.797	ug/l #	99
29) 1,1-Dichloropropene	8.220	75	17018	2.404	ug/l	98
30) 2-Butanone	7.348	43	44034	12.119	ug/l #	76
31) 2,2-Dichloropropane	7.332	77	21481m	2.834	ug/l	
32) 1,1,1-Trichloroethane	8.016	97	20061	2.230	ug/l #	78
33) Carbon Tetrachloride	8.204	117	15468m	2.046	ug/l	
34) Benzene	8.458	78	50220	2.522	ug/l #	43
35) Methacrylonitrile	7.638	41	9453m	2.414	ug/l	
36) 1,2-Dichloroethane	8.531	62	20238	2.389	ug/l #	88
37) Trichloroethene	9.215	130	11095	2.354	ug/l	88
38) Methylcyclohexane	9.461	83	20904	2.868	ug/l	97
39) 1,2-Dichloropropane	9.494	63	13699	2.549	ug/l	98
40) Dibromomethane	9.582	93	8738	2.368	ug/l	97
41) Bromodichloromethane	9.762	83	17459	2.194	ug/l #	97
42) Vinyl Acetate	6.436	43	176922	11.570	ug/l #	86

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	18881m	2.554	ug/l	
44) Isopropyl Acetate	8.563	43	31477	2.303	ug/l #	81
45) 1,4-Dioxane	9.571	88	3701	41.597	ug/l #	88
46) Methyl methacrylate	9.561	41	13901	2.290	ug/l	91
47) n-amyl Acetate	12.390	43	23681	2.043	ug/l	96
48) t-1,3-Dichloropropene	10.719	75	19137	2.177	ug/l	98
49) cis-1,3-Dichloropropene	10.194	75	21536	2.439	ug/l	95
50) 1,1,2-Trichloroethane	10.902	97	11687	2.438	ug/l	97
51) Ethyl methacrylate	10.765	69	19807	2.261	ug/l	92
52) 1,3-Dichloropropane	11.047	76	21591	2.472	ug/l	98
53) Dibromochloromethane	11.242	129	10435	1.957	ug/l	99
54) 1,2-Dibromoethane	11.347	107	10714	2.142	ug/l	95
55) 2-Chloroethyl vinyl ether	10.046	63	20565	9.263	ug/l	98
56) Bromoform	12.463	173	6465	1.787	ug/l #	77
58) 4-Methyl-2-Pentanone	10.333	43	88536	11.589	ug/l	99
59) 2-Hexanone	11.089	43	62265	11.270	ug/l	99
61) Tetrachloroethene	10.979	164	10550	2.619	ug/l	96
62) Toluene	10.507	91	54060	2.599	ug/l	98
64) Chlorobenzene	11.771	112	28590	2.340	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	9783	2.118	ug/l	96
66) Ethyl Benzene	11.848	91	57630	2.386	ug/l	100
67) m/p-Xylenes	11.961	106	42191	4.952	ug/l	96
68) o-Xylene	12.283	106	20968	2.465	ug/l	92
69) Styrene	12.296	104	32278	2.257	ug/l	98
70) Isopropylbenzene	12.581	105	52918	2.415	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.830	83	16338	2.451	ug/l	94
72) 1,2,3-Trichloropropane	12.881	75	16972m	2.555	ug/l	
73) Bromobenzene	12.862	156	9791	2.147	ug/l	92
74) n-propylbenzene	12.924	91	65405	2.483	ug/l	96
75) 2-Chlorotoluene	13.010	91	39186	2.350	ug/l #	100
76) 1,3,5-Trimethylbenzene	13.063	105	42776	2.304	ug/l	98
77) t-1,4-Dichloro-2-butene	12.629	75	4449	1.923	ug/l	92
78) 4-Chlorotoluene	13.109	91	38682	2.333	ug/l	100
79) tert-butylbenzene	13.326	119	35621	2.388	ug/l	99
80) 1,2,4-Trimethylbenzene	13.372	105	41379	2.257	ug/l #	65
81) sec-Butylbenzene	13.506	105	50471	2.437	ug/l	98
82) p-Isopropyltoluene	13.621	119	38881	2.329	ug/l	100
83) 1,3-Dichlorobenzene	13.619	146	18798	2.287	ug/l	99
84) 1,4-Dichlorobenzene	13.699	146	18363	2.226	ug/l	94
85) n-Butylbenzene	13.946	91	39106	2.518	ug/l	99
86) Hexachloroethane	14.214	117	7024	2.056	ug/l	94
87) 1,2-Dichlorobenzene	13.991	146	18039	2.249	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.603	75	3078	1.823	ug/l	90
89) 1,2,4-Trichlorobenzene	15.268	180	7988	1.958	ug/l #	20
90) Hexachlorobutadiene	15.378	225	4618m	2.132	ug/l	
91) Naphthalene	15.512	128	22838	1.667	ug/l	96
92) 1,2,3-Trichlorobenzene	15.702	180	7084	1.785	ug/l	89

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

