

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032521\
 Data File : VN066326.D
 Acq On : 25 Mar 2021 12:14
 Operator : JC/MD
 Sample : M1458-09
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT1-2021

Manual Integrations
 APPROVED

SAM
 3/29/2021 5:11:47 PM

Quant Time: Mar 26 05:13:11 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 26 05:05:11 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.102	128	87382	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.512	114	466417	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.350	117	398824	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.947	65	199263	29.67	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.90%		
60) 4-Bromofluorobenzene	12.345	95	173579	27.89	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	92.97%		
63) Toluene-d8	10.028	98	567656	30.33	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.10%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.816	85	10264	2.10	ug/l	99
3) Chloromethane	2.014	50	15929	2.59	ug/l	100
4) Vinyl Chloride	2.145	62	14040	2.17	ug/l	95
5) Bromomethane	2.521	94	11026	2.41	ug/l	92
6) Chloroethane	2.655	64	8650	2.09	ug/l	97
7) Trichlorofluoromethane	2.961	101	20302	2.18	ug/l	99
8) Diethyl Ether	3.347	74	9007	2.86	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.682	101	11645	2.55	ug/l	64
10) 1,1-Dichloroethene	3.658	96	11632	2.58	ug/l	93
11) Methyl Iodide	3.867	142	15121	2.33	ug/l	93
12) Methyl Acetate	4.232	43	21011	3.00	ug/l	93
13) Acrolein	3.532	56	17161	35.35	ug/l	95
14) Acrylonitrile	4.884	53	32197	11.14	ug/l	98
15) Acetone	3.741	58	13647	16.22	ug/l	88
16) Carbon Disulfide	3.964	76	33770	2.70	ug/l	100
17) Allyl chloride	4.229	41	34776m	4.27	ug/l	
18) Methylene Chloride	4.452	84	14945	2.77	ug/l	95
19) trans-1,2-Dichloroethene	4.929	96	11075	2.23	ug/l	96
20) Diisopropyl ether	5.860	45	36390	2.03	ug/l	100
21) 1,1-Dichloroethane	5.745	63	21102	2.18	ug/l	98
22) cis-1,2-Dichloroethene	6.732	96	13267m	2.23	ug/l	
23) tert-Butyl Alcohol	4.709	59	13961m	11.77	ug/l	
24) Methyl tert-Butyl Ether	4.943	73	37953m	2.20	ug/l	
25) Chloroform	7.281	83	21186	2.17	ug/l	97
26) Cyclohexane	7.566	56	18116	2.11	ug/l #	99
29) 1,1-Dichloropropene	7.710	75	14959	2.14	ug/l	83
30) 2-Butanone	6.750	43	44029	10.77	ug/l #	80
31) 2,2-Dichloropropane	6.724	77	19204	2.22	ug/l #	78
32) 1,1,1-Trichloroethane	7.483	97	16865	1.99	ug/l	89
33) Carbon Tetrachloride	7.686	117	14649	2.05	ug/l	98
34) Benzene	7.960	78	45111	2.12	ug/l #	1
35) Methacrylonitrile	7.080	41	8424m	2.44	ug/l	
36) 1,2-Dichloroethane	8.043	62	17205	2.21	ug/l	97
37) Trichloroethene	8.762	130	12081	2.18	ug/l	98
38) Methylcyclohexane	9.011	83	17395m	2.02	ug/l	
39) 1,2-Dichloropropane	9.046	63	12655	2.20	ug/l	98
40) Dibromomethane	9.137	93	8213	2.22	ug/l	97
41) Bromodichloromethane	9.333	83	16296	2.08	ug/l	96
42) Vinyl Acetate	5.798	43	153617	9.97	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.844	43	16903	2.15	ug/l #	100
44) Isopropyl Acetate	8.091	43	30345	2.16	ug/l #	100
45) 1,4-Dioxane	9.145	88	3651	40.71	ug/l #	29
46) Methyl methacrylate	9.135	41	12954	1.97	ug/l	95
47) n-amyl Acetate	12.028	43	7813	1.37	ug/l	92
48) t-1,3-Dichloropropene	10.323	75	17013	2.00	ug/l	96
49) cis-1,3-Dichloropropene	9.776	75	19574	2.14	ug/l	93
50) 1,1,2-Trichloroethane	10.505	97	11259	2.13	ug/l	96
51) Ethyl methacrylate	10.371	69	16562	2.00	ug/l	95
52) 1,3-Dichloropropane	10.645	76	19259	2.18	ug/l	97
53) Dibromochloromethane	10.840	129	12086	2.03	ug/l	97
54) 1,2-Dibromoethane	10.945	107	11386	2.09	ug/l	99
55) 2-Chloroethyl vinyl ether	9.633	63	5487	4.45	ug/l #	87
56) Bromoform	12.069	173	8686	1.99	ug/l #	100
58) 4-Methyl-2-Pentanone	9.923	43	87985	11.01	ug/l	100
59) 2-Hexanone	10.696	43	61064	11.11	ug/l	99
61) Tetrachloroethene	10.569	164	12589	2.29	ug/l	98
62) Toluene	10.092	91	46986	2.13	ug/l	99
64) Chlorobenzene	11.374	112	28561	2.20	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.449	131	11051	2.17	ug/l	92
66) Ethyl Benzene	11.452	91	49920	2.10	ug/l	93
67) m/p-Xylenes	11.564	106	37024	4.19	ug/l	94
68) o-Xylene	11.889	106	18152	2.08	ug/l	99
69) Styrene	11.908	104	27283	1.95	ug/l	96
70) Isopropylbenzene	12.192	105	46105	2.01	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.450	83	15116	2.06	ug/l	95
72) 1,2,3-Trichloropropane	12.500	75	16994m	2.39	ug/l	
73) Bromobenzene	12.471	156	12040	2.13	ug/l	93
74) n-propylbenzene	12.535	91	46832	1.85	ug/l	99
75) 2-Chlorotoluene	12.618	91	30537	1.99	ug/l	100
76) 1,3,5-Trimethylbenzene	12.678	105	36245	1.92	ug/l	100
77) t-1,4-Dichloro-2-butene	12.248	75	3292	1.43	ug/l	81
78) 4-Chlorotoluene	12.720	91	25701	1.71	ug/l	100
79) tert-butylbenzene	12.940	119	31374	1.91	ug/l	98
80) 1,2,4-Trimethylbenzene	12.986	105	34400	1.88	ug/l	97
81) sec-Butylbenzene	13.117	105	38473	1.84	ug/l	96
82) p-Isopropyltoluene	13.235	119	34385	1.86	ug/l	98
83) 1,3-Dichlorobenzene	13.233	146	16911	1.82	ug/l	98
84) 1,4-Dichlorobenzene	13.313	146	14894	1.65	ug/l	94
85) n-Butylbenzene	13.563	91	29435	1.95	ug/l	95
86) Hexachloroethane	13.815	117	7002	2.05	ug/l	89
87) 1,2-Dichlorobenzene	13.600	146	16813	1.83	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.222	75	3226m	2.15	ug/l	
89) 1,2,4-Trichlorobenzene	14.855	180	13646	2.33	ug/l #	93
90) Hexachlorobutadiene	14.949	225	7074	2.23	ug/l	95
91) Naphthalene	15.075	128	65528	3.67	ug/l #	88
92) 1,2,3-Trichlorobenzene	15.255	180	17375	3.03	ug/l	85

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

