

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102320\
 Data File : VN064293.D
 Acq On : 23 Oct 2020 18:06
 Operator : JC/MD
 Sample : L4214-08 5.0PPB LOO
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2020

Manual Integrations
 APPROVED

MMDadoda
 10/26/2020 1:39:10 PM

Quant Time: Oct 26 03:23:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Oct 26 01:30:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.16	128	45080	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	269392	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	240444	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	129018	32.79	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	109.30%
60) 4-Bromofluorobenzene	12.38	95	125577	29.34	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.80%
63) Toluene-d8	10.06	98	327389	30.46	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.53%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	12544	4.277 ug/l	94
3) Chloromethane	2.04	50	14941	4.824 ug/l	92
4) Vinyl Chloride	2.16	62	14211	4.567 ug/l	97
5) Bromomethane	2.53	94	10764	5.270 ug/l	97
6) Chloroethane	2.68	64	10009	5.485 ug/l	98
7) Trichlorofluoromethane	2.99	101	25731	4.889 ug/l	98
8) Diethyl Ether	3.37	74	9141	5.271 ug/l	85
9) 1,1,2-Trichlorotrifluoroet	3.71	101	13959m	5.321 ug/l	
10) 1,1-Dichloroethene	3.70	96	13384	5.321 ug/l	85
11) Methyl Iodide	3.92	142	16881	4.683 ug/l	97
12) Methyl Acetate	4.28	43	14843m	5.046 ug/l	
13) Acrolein	3.57	56	7929m	32.848 ug/l	
14) Acrylonitrile	4.94	53	26409	23.198 ug/l	97
15) Acetone	3.78	58	10403	28.547 ug/l	76
16) Carbon Disulfide	4.01	76	35228	4.834 ug/l	95
17) Allyl chloride	4.28	41	25400	5.267 ug/l	88
18) Methylene Chloride	4.51	84	15805m	5.374 ug/l	
19) trans-1,2-Dichloroethene	4.99	96	14652	5.124 ug/l	93
20) Diisopropyl ether	5.90	45	47103	5.126 ug/l #	91
21) 1,1-Dichloroethane	5.79	63	27954m	5.101 ug/l	
22) cis-1,2-Dichloroethene	6.78	96	16639	5.072 ug/l	97
23) tert-Butyl Alcohol	4.73	59	15099m	28.603 ug/l	
24) Methyl tert-Butyl Ether	4.99	73	46326	5.302 ug/l #	88
25) Chloroform	7.33	83	31005	5.227 ug/l	94
26) Cyclohexane	7.61	56	21266	5.004 ug/l #	98
29) 1,1-Dichloropropene	7.75	75	22499	4.831 ug/l	96
30) 2-Butanone	6.79	43	48352	23.641 ug/l #	77
31) 2,2-Dichloropropane	6.78	77	28051	4.813 ug/l	92
32) 1,1,1-Trichloroethane	7.53	97	29396	4.940 ug/l	97
33) Carbon Tetrachloride	7.73	117	25433	4.771 ug/l	98
34) Benzene	8.00	78	61007	4.794 ug/l #	70
35) Methacrylonitrile	7.14	41	11143m	5.404 ug/l	
36) 1,2-Dichloroethane	8.09	62	27273	5.026 ug/l	97
37) Trichloroethene	8.80	130	18352	5.240 ug/l	96
38) Methylcyclohexane	9.05	83	20787	4.889 ug/l	94
39) 1,2-Dichloropropane	9.08	63	16500	4.850 ug/l	96
40) Dibromomethane	9.17	93	11214	4.711 ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	24233	4.694	ug/l	88
42) Vinyl Acetate	5.85	43	208787	23.145	ug/l	99
43) Ethyl Acetate	6.88	43	18884	4.361	ug/l	97
44) Isopropyl Acetate	8.13	43	38335m	4.936	ug/l	
45) 1,4-Dioxane	9.17	88	4745	100.046	ug/l #	64
46) Methyl methacrylate	9.17	41	19104	5.088	ug/l	93
47) n-amyl Acetate	12.05	43	31030	4.631	ug/l	99
48) t-1,3-Dichloropropene	10.35	75	28203	4.894	ug/l	94
49) cis-1,3-Dichloropropene	9.81	75	27630	4.616	ug/l	92
50) 1,1,2-Trichloroethane	10.53	97	14810	4.723	ug/l #	90
51) Ethyl methacrylate	10.40	69	22095	4.581	ug/l	88
52) 1,3-Dichloropropane	10.68	76	27660	4.989	ug/l	98
53) Dibromochloromethane	10.87	129	17001	4.340	ug/l	96
54) 1,2-Dibromoethane	10.97	107	15017	4.482	ug/l	98
55) 2-Chloroethyl vinyl ether	9.66	63	56367	24.055	ug/l	99
56) Bromoform	12.10	173	12462	4.499	ug/l #	97
58) 4-Methyl-2-Pentanone	9.95	43	104105	25.122	ug/l	98
59) 2-Hexanone	10.72	43	74421	23.686	ug/l	99
61) Tetrachloroethene	10.60	164	17980	5.352	ug/l	92
62) Toluene	10.13	91	67672	4.889	ug/l	98
64) Chlorobenzene	11.41	112	40515	4.719	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.48	131	15841	4.619	ug/l	97
66) Ethyl Benzene	11.49	91	75904	4.783	ug/l	98
67) m/p-Xylenes	11.59	106	55586	9.446	ug/l	98
68) o-Xylene	11.92	106	26594	4.654	ug/l	98
69) Styrene	11.94	104	41590	4.371	ug/l	99
70) Isopropylbenzene	12.22	105	70105	4.640	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.48	83	19392	4.785	ug/l	97
72) 1,2,3-Trichloropropane	12.52	75	21154m	5.027	ug/l	
73) Bromobenzene	12.50	156	18762	5.105	ug/l	94
74) n-propylbenzene	12.57	91	77116	4.449	ug/l	99
75) 2-Chlorotoluene	12.65	91	51190	4.782	ug/l	97
76) 1,3,5-Trimethylbenzene	12.71	105	58568	4.574	ug/l	100
77) t-1,4-Dichloro-2-butene	12.28	75	6878	4.227	ug/l	75
78) 4-Chlorotoluene	12.75	91	50333	4.510	ug/l	99
79) tert-butylbenzene	12.97	119	49610	4.741	ug/l	97
80) 1,2,4-Trimethylbenzene	13.01	105	57440	4.420	ug/l	100
81) sec-Butylbenzene	13.14	105	61042	4.493	ug/l	98
82) p-Isopropyltoluene	13.26	119	56201	4.508	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	29168	4.500	ug/l	98
84) 1,4-Dichlorobenzene	13.34	146	29017	4.396	ug/l	95
85) n-Butylbenzene	13.59	91	48360	4.409	ug/l	95
86) Hexachloroethane	13.85	117	9311	4.423	ug/l	94
87) 1,2-Dichlorobenzene	13.63	146	27399	4.332	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.24	75	5294	5.361	ug/l #	85
89) 1,2,4-Trichlorobenzene	14.88	180	13489	3.739	ug/l	95
90) Hexachlorobutadiene	14.98	225	8452	4.278	ug/l	94
91) Naphthalene	15.11	128	40510	3.840	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	13042	3.769	ug/l	95

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

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