

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102020\
 Data File : VN064198.D
 Acq On : 20 Oct 2020 16:19
 Operator : JC/MD
 Sample : L4214-08 5.0PPB LOO
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 10/23/2020 2:28:50 PM

Quant Time: Oct 21 05:53:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 20 11:51:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	51334	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	289538	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	252109	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	131331	31.25	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.17%
60) 4-Bromofluorobenzene	12.37	95	134475	29.76	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.20%
63) Toluene-d8	10.06	98	342282	29.99	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	13125	3.727 ug/l	91
3) Chloromethane	2.04	50	15586	4.318 ug/l	99
4) Vinyl Chloride	2.16	62	15340	4.320 ug/l	90
5) Bromomethane	2.53	94	10658	5.017 ug/l	94
6) Chloroethane	2.67	64	9762	4.720 ug/l	96
7) Trichlorofluoromethane	2.99	101	27536	4.831 ug/l	98
8) Diethyl Ether	3.37	74	9351	4.832 ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.73	101	13303	4.422 ug/l	92
10) 1,1-Dichloroethene	3.70	96	13564	4.631 ug/l	97
11) Methyl Iodide	3.91	142	18211	4.313 ug/l	95
12) Methyl Acetate	4.28	43	15808	5.120 ug/l	100
13) Acrolein	3.57	56	9060	26.838 ug/l #	31
14) Acrylonitrile	4.93	53	28787	23.138 ug/l	97
15) Acetone	3.78	58	8311m	24.742 ug/l	
16) Carbon Disulfide	4.01	76	37796	4.512 ug/l	97
17) Allyl chloride	4.28	41	24667	4.529 ug/l	92
18) Methylene Chloride	4.51	84	16673	4.977 ug/l	94
19) trans-1,2-Dichloroethene	4.99	96	14696	4.651 ug/l	84
20) Diisopropyl ether	5.90	45	48078	4.777 ug/l #	93
21) 1,1-Dichloroethane	5.80	63	30005	4.883 ug/l	98
22) cis-1,2-Dichloroethene	6.78	96	17872	4.838 ug/l	95
23) tert-Butyl Alcohol	4.73	59	14979m	26.031 ug/l	
24) Methyl tert-Butyl Ether	4.99	73	47550	4.913 ug/l #	68
25) Chloroform	7.32	83	32890	5.151 ug/l	100
26) Cyclohexane	7.61	56	22861	4.692 ug/l #	87
29) 1,1-Dichloropropene	7.75	75	23502	4.888 ug/l	59
30) 2-Butanone	6.78	43	51582	26.014 ug/l #	90
31) 2,2-Dichloropropane	6.78	77	28550	4.677 ug/l #	64
32) 1,1,1-Trichloroethane	7.53	97	30253m	4.938 ug/l	
33) Carbon Tetrachloride	7.74	117	26955	4.826 ug/l	93
34) Benzene	8.00	78	64532	4.819 ug/l #	70
35) Methacrylonitrile	7.12	41	11227m	5.162 ug/l	
36) 1,2-Dichloroethane	8.08	62	28794	5.317 ug/l	98
37) Trichloroethene	8.80	130	17904	4.856 ug/l	97
38) Methylcyclohexane	9.05	83	20744	4.511 ug/l	94
39) 1,2-Dichloropropane	9.08	63	17203	4.814 ug/l	91
40) Dibromomethane	9.18	93	11717	4.713 ug/l	98

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

41) Bromodichloromethane	9.37	83	26810	4.983	ug/l	98
42) Vinyl Acetate	5.84	43	225803	23.987	ug/l	100
43) Ethyl Acetate	6.88	43	20623m	4.762	ug/l	
44) Isopropyl Acetate	8.13	43	45695	5.496	ug/l #	86
45) 1,4-Dioxane	9.16	88	4918	101.139	ug/l #	85
46) Methyl methacrylate	9.17	41	19644	4.980	ug/l	98
47) n-amyl Acetate	12.04	43	31366	4.253	ug/l	99
48) t-1,3-Dichloropropene	10.35	75	29826	4.915	ug/l	99
49) cis-1,3-Dichloropropene	9.81	75	29797	4.752	ug/l	98
50) 1,1,2-Trichloroethane	10.53	97	15465	4.643	ug/l	94
51) Ethyl methacrylate	10.40	69	26549	5.041	ug/l	99
52) 1,3-Dichloropropane	10.68	76	27923	4.863	ug/l	98
53) Dibromochloromethane	10.87	129	20054	4.784	ug/l	94
54) 1,2-Dibromoethane	10.98	107	17026	4.809	ug/l	91
55) 2-Chloroethyl vinyl ether	9.66	63	63781	24.639	ug/l	99
56) Bromoform	12.10	173	13084	4.482	ug/l	99
58) 4-Methyl-2-Pentanone	9.95	43	108355	25.363	ug/l	99
59) 2-Hexanone	10.72	43	78251	24.672	ug/l	98
61) Tetrachloroethene	10.60	164	17006	5.004	ug/l	90
62) Toluene	10.12	91	70068	4.861	ug/l	100
64) Chlorobenzene	11.41	112	44138	4.918	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.48	131	17421	4.954	ug/l	100
66) Ethyl Benzene	11.48	91	80605	4.864	ug/l	96
67) m/p-Xylenes	11.59	106	57890	9.394	ug/l	95
68) o-Xylene	11.92	106	27491	4.597	ug/l	94
69) Styrene	11.94	104	46126	4.559	ug/l	98
70) Isopropylbenzene	12.22	105	76920	4.870	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	21369	4.937	ug/l #	97
72) 1,2,3-Trichloropropane	12.53	75	21475m	4.755	ug/l	
73) Bromobenzene	12.50	156	17331	4.550	ug/l	90
74) n-propylbenzene	12.57	91	83917	4.655	ug/l	99
75) 2-Chlorotoluene	12.65	91	54634	4.896	ug/l	96
76) 1,3,5-Trimethylbenzene	12.70	105	63565	4.730	ug/l	98
77) t-1,4-Dichloro-2-butene	12.27	75	8546	4.840	ug/l	94
78) 4-Chlorotoluene	12.75	91	55574	4.761	ug/l	99
79) tert-butylbenzene	12.97	119	52780	4.804	ug/l	99
80) 1,2,4-Trimethylbenzene	13.01	105	64398	4.720	ug/l	99
81) sec-Butylbenzene	13.14	105	68206	4.771	ug/l	97
82) p-Isopropyltoluene	13.26	119	62396	4.716	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	31589	4.627	ug/l	98
84) 1,4-Dichlorobenzene	13.34	146	30771	4.502	ug/l	95
85) n-Butylbenzene	13.59	91	50756	4.321	ug/l	99
86) Hexachloroethane	13.85	117	10423	4.576	ug/l	91
87) 1,2-Dichlorobenzene	13.62	146	30835	4.631	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.24	75	5319	4.852	ug/l	90
89) 1,2,4-Trichlorobenzene	14.88	180	16474	4.121	ug/l	94
90) Hexachlorobutadiene	14.98	225	9803	4.837	ug/l	93
91) Naphthalene	15.10	128	54218	4.474	ug/l	97
92) 1,2,3-Trichlorobenzene	15.28	180	16334	4.272	ug/l	99

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

