

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102320\
 Data File : VN064292.D
 Acq On : 23 Oct 2020 17:43
 Operator : JC/MD
 Sample : L4214-07 2.5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Manual Integrations
 APPROVED

MMDadoda
 10/26/2020 1:39:05 PM

Quant Time: Oct 26 07:20:14 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	42072	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	245458	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	219209	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	121320	33.04	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	110.13%#
60) 4-Bromofluorobenzene	12.38	95	109191	27.99	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.30%
63) Toluene-d8	10.06	98	298205	30.44	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	4625	1.690 ug/l	100
3) Chloromethane	2.04	50	5136	1.777 ug/l	98
4) Vinyl Chloride	2.16	62	5302	1.826 ug/l #	88
5) Bromomethane	2.54	94	4452m	2.336 ug/l	
6) Chloroethane	2.68	64	3156	1.853 ug/l #	56
7) Trichlorofluoromethane	2.98	101	9452	1.924 ug/l	96
8) Diethyl Ether	3.38	74	3005m	1.857 ug/l	
9) 1,1,2-Trichlorotrifluoroet	3.72	101	5003m	2.043 ug/l	
10) 1,1-Dichloroethene	3.69	96	4921m	2.096 ug/l	
11) Methyl Iodide	3.91	142	5600m	1.665 ug/l	
12) Methyl Acetate	4.27	43	6211m	2.262 ug/l	
13) Acrolein	3.57	56	2589m	11.493 ug/l	
14) Acrylonitrile	4.94	53	10259m	9.656 ug/l	
15) Acetone	3.78	58	3803m	11.182 ug/l	
16) Carbon Disulfide	4.01	76	13644	2.006 ug/l #	92
17) Allyl chloride	4.28	41	10286	2.285 ug/l	85
18) Methylene Chloride	4.50	84	6668m	2.429 ug/l	
19) trans-1,2-Dichloroethene	4.99	96	4825	1.808 ug/l #	80
20) Diisopropyl ether	5.90	45	16716m	1.949 ug/l	
21) 1,1-Dichloroethane	5.79	63	9414	1.841 ug/l #	95
22) cis-1,2-Dichloroethene	6.78	96	6376m	2.083 ug/l	
23) tert-Butyl Alcohol	4.74	59	5660m	11.489 ug/l	
24) Methyl tert-Butyl Ether	4.98	73	15544m	1.906 ug/l	
25) Chloroform	7.33	83	12328m	2.227 ug/l	
26) Cyclohexane	7.61	56	7442	1.876 ug/l #	98
29) 1,1-Dichloropropene	7.75	75	8010m	1.888 ug/l	
30) 2-Butanone	6.79	43	16748	8.987 ug/l #	59
31) 2,2-Dichloropropane	6.78	77	10213m	1.923 ug/l	
32) 1,1,1-Trichloroethane	7.53	97	9928	1.831 ug/l #	84
33) Carbon Tetrachloride	7.73	117	9564	1.969 ug/l	93
34) Benzene	8.00	78	22175	1.912 ug/l #	1
35) Methacrylonitrile	7.12	41	3166	1.685 ug/l	93
36) 1,2-Dichloroethane	8.09	62	9933	2.009 ug/l #	93
37) Trichloroethene	8.80	130	5762	1.806 ug/l	97
38) Methylcyclohexane	9.04	83	7077m	1.827 ug/l	
39) 1,2-Dichloropropane	9.09	63	6343	2.046 ug/l	97
40) Dibromomethane	9.18	93	4553	2.099 ug/l	87

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

41) Bromodichloromethane	9.37	83	8744	1.859	ug/l #	94
42) Vinyl Acetate	5.85	43	73804	8.979	ug/l	96
43) Ethyl Acetate	6.89	43	7700	1.952	ug/l #	85
44) Isopropyl Acetate	8.13	43	13402	1.894	ug/l #	59
45) 1,4-Dioxane	9.16	88	1627	37.649	ug/l #	52
46) Methyl methacrylate	9.17	41	5984	1.749	ug/l	84
47) n-amyl Acetate	12.05	43	9573	1.568	ug/l	95
48) t-1,3-Dichloropropene	10.35	75	9533	1.815	ug/l	89
49) cis-1,3-Dichloropropene	9.81	75	9631	1.766	ug/l	88
50) 1,1,2-Trichloroethane	10.54	97	5178	1.812	ug/l	96
51) Ethyl methacrylate	10.40	69	8083	1.839	ug/l	90
52) 1,3-Dichloropropane	10.68	76	9349	1.851	ug/l	94
53) Dibromochloromethane	10.87	129	6103	1.710	ug/l	92
54) 1,2-Dibromoethane	10.98	107	5876	1.925	ug/l	95
55) 2-Chloroethyl vinyl ether	9.67	63	17110	8.014	ug/l	94
56) Bromoform	12.10	173	4489	1.779	ug/l #	93
58) 4-Methyl-2-Pentanone	9.95	43	35847	9.488	ug/l	98
59) 2-Hexanone	10.73	43	28235	9.857	ug/l	95
61) Tetrachloroethene	10.60	164	6423	2.097	ug/l	94
62) Toluene	10.12	91	25252	2.001	ug/l	94
64) Chlorobenzene	11.41	112	14042	1.794	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.48	131	5921	1.894	ug/l	93
66) Ethyl Benzene	11.49	91	27046	1.869	ug/l	97
67) m/p-Xylenes	11.59	106	18887	3.520	ug/l	99
68) o-Xylene	11.92	106	9137	1.754	ug/l	89
69) Styrene	11.94	104	14870	1.714	ug/l #	74
70) Isopropylbenzene	12.23	105	24260	1.761	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.48	83	6757	1.829	ug/l #	95
72) 1,2,3-Trichloropropane	12.53	75	7911m	2.062	ug/l	
73) Bromobenzene	12.50	156	5978	1.784	ug/l	94
74) n-propylbenzene	12.57	91	28019	1.773	ug/l	99
75) 2-Chlorotoluene	12.65	91	18631	1.909	ug/l	95
76) 1,3,5-Trimethylbenzene	12.71	105	19315	1.655	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	2342	1.579	ug/l	74
78) 4-Chlorotoluene	12.75	91	16909	1.662	ug/l	99
79) tert-butylbenzene	12.97	119	16822	1.763	ug/l	95
80) 1,2,4-Trimethylbenzene	13.02	105	20126	1.699	ug/l	95
81) sec-Butylbenzene	13.14	105	21230	1.714	ug/l	97
82) p-Isopropyltoluene	13.26	119	18949	1.667	ug/l	97
83) 1,3-Dichlorobenzene	13.26	146	8844	1.497	ug/l	90
84) 1,4-Dichlorobenzene	13.34	146	10903	1.812	ug/l	95
85) n-Butylbenzene	13.59	91	15082	1.508	ug/l	99
86) Hexachloroethane	13.85	117	3115	1.623	ug/l	99
87) 1,2-Dichlorobenzene	13.63	146	9301	1.613	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.25	75	1482	1.646	ug/l	96
89) 1,2,4-Trichlorobenzene	14.88	180	4409	1.340	ug/l #	87
90) Hexachlorobutadiene	14.98	225	3838	2.131	ug/l	96
91) Naphthalene	15.10	128	11883	1.235	ug/l	98
92) 1,2,3-Trichlorobenzene	15.29	180	3823	1.212	ug/l	81

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

