

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080619\
 Data File : VN057107.D
 Acq On : 6 Aug 2019 16:49
 Operator : JC/SP
 Sample : VN0806WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0806WBSD02

Manual Integrations
 APPROVED

MMdadoda
 8/9/2019 12:51:39 AM

Quant Time: Aug 07 08:52:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 24 04:19:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	74643	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	8.58	114	401986	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	359776	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	145688	29.82	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.40%
60) 4-Bromofluorobenzene	12.40	95	153891	28.54	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.13%
63) Toluene-d8	10.08	98	496586	29.22	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	89040	19.952	ug/l 96
3) Chloromethane	2.05	50	100473	18.450	ug/l 99
4) Vinyl Chloride	2.18	62	93764	17.858	ug/l 99
5) Bromomethane	2.52	94	55623m	17.254	ug/l
6) Chloroethane	2.68	64	50279	17.264	ug/l 99
7) Trichlorofluoromethane	3.00	101	130939	20.478	ug/l 97
8) Diethyl Ether	3.40	74	47879	20.096	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	77396	19.274	ug/l 96
10) 1,1-Dichloroethene	3.72	96	75276	18.890	ug/l 94
11) Methyl Iodide	3.94	142	86942	14.747	ug/l 97
12) Methyl Acetate	4.31	43	84725	17.373	ug/l 93
13) Acrolein	3.59	56	63862	115.705	ug/l 98
14) Acrylonitrile	4.97	53	171737	91.310	ug/l 99
15) Acetone	3.81	58	49613	102.032	ug/l 87
16) Carbon Disulfide	4.04	76	189200	17.608	ug/l 99
17) Allyl chloride	4.31	41	113054	16.954	ug/l 98
18) Methylene Chloride	4.54	84	89538	19.305	ug/l 94
19) trans-1,2-Dichloroethene	5.02	96	80282	19.036	ug/l 94
20) Diisopropyl ether	5.94	45	245424	18.127	ug/l 97
21) 1,1-Dichloroethane	5.83	63	146228	18.585	ug/l 99
22) cis-1,2-Dichloroethene	6.82	96	93495	19.128	ug/l 98
23) tert-Butyl Alcohol	4.78	59	52966	84.387	ug/l # 100
24) Methyl tert-Butyl Ether	5.03	73	228557	18.971	ug/l 99
25) Chloroform	7.36	83	146892	19.137	ug/l 100
26) Cyclohexane	7.64	56	131640	18.213	ug/l # 97
29) 1,1-Dichloropropene	7.78	75	108246	18.975	ug/l 99
30) 2-Butanone	6.82	43	209743	91.516	ug/l 100
31) 2,2-Dichloropropane	6.81	77	110887	20.947	ug/l 98
32) 1,1,1-Trichloroethane	7.56	97	124404	19.848	ug/l 97
33) Carbon Tetrachloride	7.76	117	106835	19.529	ug/l 96
34) Benzene	8.03	78	335932	18.690	ug/l 98
35) Methacrylonitrile	7.16	41	38226	16.701	ug/l 96
36) 1,2-Dichloroethane	8.11	62	109795	19.649	ug/l 98
37) Trichloroethene	8.83	130	92396	19.174	ug/l 95
38) Methylcyclohexane	9.07	83	133007	18.329	ug/l 98
39) 1,2-Dichloropropane	9.11	63	87460	18.229	ug/l 96
40) Dibromomethane	9.20	93	56357	19.148	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	107530	19.013	ug/l	98
42) Vinyl Acetate	5.88	43	932923	91.405	ug/l	99
43) Ethyl Acetate	6.92	43	85789	18.259	ug/l #	93
44) Isopropyl Acetate	8.16	43	154845	19.772	ug/l #	83
45) 1,4-Dioxane	9.19	88	27794	372.787	ug/l	92
46) Methyl methacrylate	9.19	41	69866	17.882	ug/l	99
47) n-amyl Acetate	12.07	43	111735	17.822	ug/l	99
48) t-1,3-Dichloropropene	10.37	75	111750	18.988	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	129032	18.814	ug/l	97
50) 1,1,2-Trichloroethane	10.55	97	81562	19.301	ug/l	95
51) Ethyl methacrylate	10.42	69	114503	18.733	ug/l	98
52) 1,3-Dichloropropane	10.70	76	134828	18.905	ug/l	98
53) Dibromochloromethane	10.90	129	83698	19.055	ug/l	100
54) 1,2-Dibromoethane	11.00	107	84102	19.508	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	188007	71.022	ug/l	98
56) Bromoform	12.12	173	58594	19.280	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	429365	88.932	ug/l	97
59) 2-Hexanone	10.75	43	295810	89.914	ug/l	98
61) Tetrachloroethene	10.63	164	91129	18.073	ug/l	99
62) Toluene	10.15	91	365085	18.658	ug/l	100
64) Chlorobenzene	11.43	112	224733	19.067	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.50	131	84785	18.992	ug/l	98
66) Ethyl Benzene	11.51	91	386639	18.751	ug/l	100
67) m/p-Xylenes	11.62	106	291530	37.916	ug/l	100
68) o-Xylene	11.94	106	145552	19.254	ug/l	98
69) Styrene	11.96	104	225121	18.377	ug/l	100
70) Isopropylbenzene	12.25	105	378146	18.998	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	103632	18.588	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	92058m	18.767	ug/l	
73) Bromobenzene	12.52	156	96764	18.839	ug/l	98
74) n-propylbenzene	12.59	91	396068	18.198	ug/l	98
75) 2-Chlorotoluene	12.67	91	244295	18.514	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	323499	19.305	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	27115	17.606	ug/l	97
78) 4-Chlorotoluene	12.77	91	218282	17.403	ug/l	98
79) tert-butylbenzene	12.99	119	281160	19.444	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	299638	18.343	ug/l	97
81) sec-Butylbenzene	13.17	105	349827	18.530	ug/l	99
82) p-Isopropyltoluene	13.29	119	310019	18.285	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	135614	16.769	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	123644	16.170	ug/l	99
85) n-Butylbenzene	13.61	91	219397	16.479	ug/l	98
86) Hexachloroethane	13.87	117	52432	18.478	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	135600	16.881	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	13983	16.212	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	43906	15.950	ug/l	98
90) Hexachlorobutadiene	15.00	225	53632	18.164	ug/l	98
91) Naphthalene	15.12	128	111005	15.498	ug/l	100
92) 1,2,3-Trichlorobenzene	15.29	180	53263	12.543	ug/l	97

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

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