

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN080119\
 Data File : VN057049.D
 Acq On : 1 Aug 2019 19:50
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 8/2/2019 11:18:26 AM

Quant Time: Aug 02 10:31:18 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	82549	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	8.58	114	438766	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	375392	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	156792	29.02	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.73%
60) 4-Bromofluorobenzene	12.40	95	162440	28.87	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.23%
63) Toluene-d8	10.08	98	536163	30.24	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	103176	20.905	ug/l 99
3) Chloromethane	2.05	50	116284	19.308	ug/l 98
4) Vinyl Chloride	2.18	62	111562	19.213	ug/l 99
5) Bromomethane	2.55	94	73775	20.693	ug/l 99
6) Chloroethane	2.69	64	58941	18.300	ug/l 92
7) Trichlorofluoromethane	3.00	101	150949	21.347	ug/l 98
8) Diethyl Ether	3.40	74	55932	21.228	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.74	101	89230	20.093	ug/l 96
10) 1,1-Dichloroethene	3.73	96	88451	20.071	ug/l 96
11) Methyl Iodide	3.94	142	124302	19.065	ug/l 97
12) Methyl Acetate	4.31	43	87783	16.276	ug/l 94
13) Acrolein	3.59	56	68556	112.313	ug/l 97
14) Acrylonitrile	4.97	53	198129	95.254	ug/l 99
15) Acetone	3.81	58	51869	96.455	ug/l 93
16) Carbon Disulfide	4.04	76	228994	19.270	ug/l 99
17) Allyl chloride	4.31	41	137894	18.698	ug/l 97
18) Methylene Chloride	4.54	84	101930	19.872	ug/l 99
19) trans-1,2-Dichloroethene	5.03	96	94568	20.276	ug/l 99
20) Diisopropyl ether	5.94	45	289781	19.354	ug/l 98
21) 1,1-Dichloroethane	5.83	63	173007	19.882	ug/l 98
22) cis-1,2-Dichloroethene	6.82	96	107349	19.859	ug/l 98
23) tert-Butyl Alcohol	4.77	59	72644	104.654	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	267119	20.048	ug/l 97
25) Chloroform	7.36	83	171200	20.168	ug/l 98
26) Cyclohexane	7.64	56	156099	19.528	ug/l # 98
29) 1,1-Dichloropropene	7.78	75	129080	20.731	ug/l 96
30) 2-Butanone	6.82	43	242119	96.787	ug/l 98
31) 2,2-Dichloropropane	6.81	77	119589	20.697	ug/l 98
32) 1,1,1-Trichloroethane	7.56	97	143205	20.932	ug/l 99
33) Carbon Tetrachloride	7.76	117	124103	20.783	ug/l 99
34) Benzene	8.03	78	394536	20.110	ug/l 98
35) Methacrylonitrile	7.18	41	58416m	23.383	ug/l
36) 1,2-Dichloroethane	8.11	62	124215	20.366	ug/l 99
37) Trichloroethene	8.82	130	109038	20.731	ug/l 98
38) Methylcyclohexane	9.07	83	158025	19.951	ug/l 98
39) 1,2-Dichloropropane	9.11	63	105307	20.109	ug/l 99
40) Dibromomethane	9.20	93	65136	20.275	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	124194	20.118	ug/l	99
42) Vinyl Acetate	5.88	43	1076676	96.646	ug/l	98
43) Ethyl Acetate	6.92	43	103628	20.207	ug/l	96
44) Isopropyl Acetate	8.16	43	163814	19.164	ug/l #	87
45) 1,4-Dioxane	9.19	88	32961	405.030	ug/l	95
46) Methyl methacrylate	9.19	41	79555	18.655	ug/l	96
47) n-amyl Acetate	12.07	43	124920	18.255	ug/l	99
48) t-1,3-Dichloropropene	10.37	75	126992	19.769	ug/l	100
49) cis-1,3-Dichloropropene	9.83	75	149406	19.958	ug/l	97
50) 1,1,2-Trichloroethane	10.55	97	92027	19.952	ug/l	96
51) Ethyl methacrylate	10.42	69	129721	19.444	ug/l	98
52) 1,3-Dichloropropane	10.70	76	156138	20.058	ug/l	100
53) Dibromochloromethane	10.90	129	98373	20.518	ug/l	99
54) 1,2-Dibromoethane	11.00	107	96793	20.570	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	231147	79.999	ug/l	97
56) Bromoform	12.12	173	67645	20.392	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	491197	97.506	ug/l	97
59) 2-Hexanone	10.74	43	339715	98.964	ug/l	99
61) Tetrachloroethene	10.63	164	113695	21.611	ug/l	97
62) Toluene	10.15	91	419974	20.571	ug/l	100
64) Chlorobenzene	11.43	112	256512	20.858	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.50	131	97369	20.903	ug/l	98
66) Ethyl Benzene	11.51	91	445611	20.712	ug/l	99
67) m/p-Xylenes	11.62	106	333172	41.529	ug/l	99
68) o-Xylene	11.94	106	165782	21.017	ug/l	97
69) Styrene	11.96	104	258357	20.212	ug/l	99
70) Isopropylbenzene	12.25	105	438124	21.095	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	120208	20.664	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	105074m	20.530	ug/l	
73) Bromobenzene	12.52	156	108802	20.301	ug/l	98
74) n-propylbenzene	12.59	91	454133	19.998	ug/l	99
75) 2-Chlorotoluene	12.67	91	280838	20.398	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	367050	20.993	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	31047	19.320	ug/l	96
78) 4-Chlorotoluene	12.77	91	256511	19.600	ug/l	98
79) tert-butylbenzene	12.99	119	321518	21.310	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	350952	20.590	ug/l	98
81) sec-Butylbenzene	13.17	105	406753	20.649	ug/l	98
82) p-Isopropyltoluene	13.29	119	358062	20.240	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	163824	19.415	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	149346	18.719	ug/l	99
85) n-Butylbenzene	13.61	91	256634	18.474	ug/l	98
86) Hexachloroethane	13.87	117	63376	21.406	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	168397	20.092	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	17792	19.770	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	59856	18.386	ug/l	99
90) Hexachlorobutadiene	15.00	225	68110	22.108	ug/l	98
91) Naphthalene	15.12	128	153272	18.022	ug/l	99
92) 1,2,3-Trichlorobenzene	15.29	180	71812	16.207	ug/l	97

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

