

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082719\
 Data File : VN057542.D
 Acq On : 27 Aug 2019 9:13
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 8/28/2019 4:26:34 PM

Quant Time: Aug 27 10:06:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 23:15:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	67695	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	395858	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	338005	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	196826	30.16	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.53%
60) 4-Bromofluorobenzene	12.40	95	158585	28.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.83%
63) Toluene-d8	10.08	98	513664	30.09	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	71387	20.158	ug/l 96
3) Chloromethane	2.05	50	106002	19.932	ug/l 96
4) Vinyl Chloride	2.17	62	137176	20.304	ug/l 100
5) Bromomethane	2.55	94	87623	20.048	ug/l 98
6) Chloroethane	2.69	64	90476	19.993	ug/l 93
7) Trichlorofluoromethane	3.00	101	210339	19.574	ug/l 94
8) Diethyl Ether	3.39	74	79997	19.378	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.73	101	121226	20.030	ug/l 97
10) 1,1-Dichloroethene	3.71	96	113552	19.434	ug/l 96
11) Methyl Iodide	3.92	142	89217	16.986	ug/l 98
12) Methyl Acetate	4.30	43	106308	18.061	ug/l 92
13) Acrolein	3.58	56	68360	91.319	ug/l 98
14) Acrylonitrile	4.96	53	197647	96.656	ug/l 98
15) Acetone	3.80	58	112950	118.077	ug/l 90
16) Carbon Disulfide	4.02	76	197989	19.023	ug/l 98
17) Allyl chloride	4.29	41	150506	18.881	ug/l 95
18) Methylene Chloride	4.52	84	86648	20.221	ug/l 97
19) trans-1,2-Dichloroethene	5.01	96	82481m	20.440	ug/l
20) Diisopropyl ether	5.93	45	335506	19.715	ug/l 98
21) 1,1-Dichloroethane	5.82	63	179341	20.280	ug/l 97
22) cis-1,2-Dichloroethene	6.81	96	100998	20.578	ug/l 99
23) tert-Butyl Alcohol	4.78	59	66808	89.942	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	269937	19.996	ug/l # 50
25) Chloroform	7.36	83	178189	20.296	ug/l 98
26) Cyclohexane	7.63	56	155695	19.772	ug/l # 96
29) 1,1-Dichloropropene	7.77	75	130638	19.418	ug/l 98
30) 2-Butanone	6.82	43	318676	98.522	ug/l 98
31) 2,2-Dichloropropane	6.80	77	153323	19.946	ug/l 98
32) 1,1,1-Trichloroethane	7.55	97	149574	19.448	ug/l 97
33) Carbon Tetrachloride	7.75	117	120452	18.861	ug/l 95
34) Benzene	8.03	78	388817	19.653	ug/l 99
35) Methacrylonitrile	7.16	41	52439	16.019	ug/l 98
36) 1,2-Dichloroethane	8.11	62	153168	19.750	ug/l # 89
37) Trichloroethene	8.82	130	90034	19.947	ug/l 99
38) Methylcyclohexane	9.07	83	147258	19.501	ug/l 98
39) 1,2-Dichloropropane	9.11	63	108683	19.320	ug/l 100
40) Dibromomethane	9.20	93	68013	19.783	ug/l 95

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

41) Bromodichloromethane	9.39	83	131420	18.024	ug/l	96
42) Vinyl Acetate	5.87	43	1324921	91.531	ug/l	100
43) Ethyl Acetate	6.92	43	122330	19.429	ug/l	98
44) Isopropyl Acetate	8.15	43	213761	17.785	ug/l #	92
45) 1,4-Dioxane	9.20	88	25331	350.636	ug/l	97
46) Methyl methacrylate	9.19	41	102506	17.959	ug/l	95
47) n-amyl Acetate	12.07	43	168867	17.457	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	138354	17.961	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	150730	17.804	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	90398	20.052	ug/l	99
51) Ethyl methacrylate	10.43	69	134994	18.014	ug/l	97
52) 1,3-Dichloropropane	10.70	76	157433	19.155	ug/l	100
53) Dibromochloromethane	10.90	129	86488	17.996	ug/l	99
54) 1,2-Dibromoethane	11.00	107	88190	19.119	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	186799	101.122	ug/l	100
56) Bromoform	12.12	173	45345	15.809	ug/l #	97
58) 4-Methyl-2-Pentanone	9.98	43	617057	93.058	ug/l	99
59) 2-Hexanone	10.75	43	433430	94.304	ug/l	99
61) Tetrachloroethene	10.63	164	81977	21.148	ug/l	96
62) Toluene	10.15	91	414743	20.077	ug/l	100
64) Chlorobenzene	11.43	112	226264	20.147	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	83702	19.611	ug/l	96
66) Ethyl Benzene	11.51	91	447481	20.240	ug/l	99
67) m/p-Xylenes	11.62	106	305696	39.865	ug/l	98
68) o-Xylene	11.95	106	149060	19.670	ug/l	98
69) Styrene	11.96	104	232195	19.180	ug/l	98
70) Isopropylbenzene	12.25	105	403738	19.916	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	112317	19.158	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	100923m	18.964	ug/l	
73) Bromobenzene	12.53	156	80462	19.609	ug/l	95
74) n-propylbenzene	12.59	91	443577	19.188	ug/l	99
75) 2-Chlorotoluene	12.67	91	269230	19.776	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	334193	20.087	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	29520	15.468	ug/l	97
78) 4-Chlorotoluene	12.77	91	247099	19.209	ug/l	99
79) tert-butylbenzene	12.99	119	281818	19.907	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	310134	19.994	ug/l	99
81) sec-Butylbenzene	13.17	105	369251	19.793	ug/l	99
82) p-Isopropyltoluene	13.29	119	301525	19.225	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	119808	18.756	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	116021	18.670	ug/l	99
85) n-Butylbenzene	13.62	91	262858	19.224	ug/l	96
86) Hexachloroethane	13.88	117	54433	17.201	ug/l	100
87) 1,2-Dichlorobenzene	13.66	146	121137	19.310	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	15561	15.816	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	32623	13.879	ug/l	95
90) Hexachlorobutadiene	15.01	225	37931	20.988	ug/l	97
91) Naphthalene	15.13	128	102124	18.752	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	35460	15.085	ug/l	95

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

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