

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082020\
 Data File : VN063034.D
 Acq On : 20 Aug 2020 13:52
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 ICVVN082020

Manual Integrations
 APPROVED

MMDadoda
 8/21/2020 9:21:50 AM

Quant Time: Aug 21 05:53:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Aug 20 14:01:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	29064	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	154053	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	145641	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.98	65	63105	30.64	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.13%
60) 4-Bromofluorobenzene	12.37	95	68895	29.94	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.80%
63) Toluene-d8	10.06	98	201982	30.22	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	49639	23.888	ug/l 97
3) Chloromethane	2.03	50	52065	22.643	ug/l 99
4) Vinyl Chloride	2.16	62	52674	22.755	ug/l 100
5) Bromomethane	2.53	94	32096	22.494	ug/l 99
6) Chloroethane	2.67	64	30543	22.325	ug/l 98
7) Trichlorofluoromethane	2.98	101	62345	22.334	ug/l 100
8) Diethyl Ether	3.37	74	19669	21.186	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.72	101	32471	21.513	ug/l 99
10) 1,1-Dichloroethene	3.70	96	29148	21.491	ug/l 97
11) Methyl Iodide	3.91	142	37918	20.377	ug/l 97
12) Methyl Acetate	4.28	43	37043	20.490	ug/l 99
13) Acrolein	3.56	56	15016	81.043	ug/l 97
14) Acrylonitrile	4.93	53	80993	102.316	ug/l 97
15) Acetone	3.78	58	25576	111.635	ug/l 94
16) Carbon Disulfide	4.01	76	79994	21.970	ug/l 98
17) Allyl chloride	4.27	41	52932	21.269	ug/l 93
18) Methylene Chloride	4.50	84	39600	20.868	ug/l 96
19) trans-1,2-Dichloroethene	4.99	96	31829	21.342	ug/l 94
20) Diisopropyl ether	5.90	45	128871	22.109	ug/l 97
21) 1,1-Dichloroethane	5.79	63	68167	21.309	ug/l 99
22) cis-1,2-Dichloroethene	6.78	96	38814	21.001	ug/l 98
23) tert-Butyl Alcohol	4.73	59	26584	102.507	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	105170	21.137	ug/l 99
25) Chloroform	7.33	83	69206	21.723	ug/l 100
26) Cyclohexane	7.61	56	59172	21.487	ug/l # 99
29) 1,1-Dichloropropene	7.75	75	47316	21.150	ug/l 98
30) 2-Butanone	6.78	43	106104	101.754	ug/l 100
31) 2,2-Dichloropropane	6.77	77	57250	21.053	ug/l 99
32) 1,1,1-Trichloroethane	7.52	97	56583	20.999	ug/l 99
33) Carbon Tetrachloride	7.73	117	47249	20.592	ug/l 96
34) Benzene	8.00	78	149971	20.918	ug/l 98
35) Methacrylonitrile	7.13	41	20377	20.561	ug/l 96
36) 1,2-Dichloroethane	8.08	62	50417	20.613	ug/l 99
37) Trichloroethene	8.80	130	36808	20.964	ug/l 100
38) Methylcyclohexane	9.05	83	58069	20.694	ug/l 99
39) 1,2-Dichloropropane	9.08	63	42717	20.472	ug/l 98
40) Dibromomethane	9.17	93	25580	21.115	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	55719	20.755	ug/l	96
42) Vinyl Acetate	5.84	43	384576	97.356	ug/l	100
43) Ethyl Acetate	6.88	43	38694	19.441	ug/l	99
44) Isopropyl Acetate	8.12	43	66885	20.018	ug/l	98
45) 1,4-Dioxane	9.17	88	12821	409.704	ug/l	97
46) Methyl methacrylate	9.17	41	32059	19.488	ug/l	93
47) n-amyl Acetate	12.05	43	55612	18.753	ug/l	99
48) t-1,3-Dichloropropene	10.35	75	56481	19.920	ug/l	97
49) cis-1,3-Dichloropropene	9.81	75	63748	20.656	ug/l	99
50) 1,1,2-Trichloroethane	10.53	97	37730	20.199	ug/l	96
51) Ethyl methacrylate	10.40	69	48725	19.173	ug/l	98
52) 1,3-Dichloropropane	10.68	76	62953	20.399	ug/l	100
53) Dibromochloromethane	10.87	129	42103	20.540	ug/l	98
54) 1,2-Dibromoethane	10.98	107	37272	20.800	ug/l	98
55) 2-Chloroethyl vinyl ether	9.66	63	49874	95.542	ug/l	99
56) Bromoform	12.10	173	29573	19.702	ug/l	96
58) 4-Methyl-2-Pentanone	9.95	43	211607	101.000	ug/l	100
59) 2-Hexanone	10.72	43	149248	99.861	ug/l	99
61) Tetrachloroethene	10.60	164	32762	20.520	ug/l	96
62) Toluene	10.12	91	161451	20.917	ug/l	100
64) Chlorobenzene	11.40	112	100205	20.980	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.48	131	38831	20.513	ug/l	99
66) Ethyl Benzene	11.48	91	171579	20.392	ug/l	98
67) m/p-Xylenes	11.60	106	132727	42.108	ug/l	99
68) o-Xylene	11.92	106	61308	20.248	ug/l	99
69) Styrene	11.94	104	108016	20.422	ug/l	100
70) Isopropylbenzene	12.22	105	174144	21.142	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	54043	20.460	ug/l	100
72) 1,2,3-Trichloropropane	12.53	75	43517m	18.567	ug/l	
73) Bromobenzene	12.50	156	45057	20.285	ug/l	99
74) n-propylbenzene	12.56	91	205517	20.800	ug/l	99
75) 2-Chlorotoluene	12.65	91	121668	20.661	ug/l	99
76) 1,3,5-Trimethylbenzene	12.71	105	145327	20.675	ug/l	99
77) t-1,4-Dichloro-2-butene	12.27	75	16092	19.426	ug/l	95
78) 4-Chlorotoluene	12.75	91	123508	20.343	ug/l	99
79) tert-butylbenzene	12.97	119	119433	20.193	ug/l	99
80) 1,2,4-Trimethylbenzene	13.01	105	142023	20.756	ug/l	99
81) sec-Butylbenzene	13.15	105	167132	20.514	ug/l	100
82) p-Isopropyltoluene	13.26	119	145082	20.087	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	78641	20.277	ug/l	99
84) 1,4-Dichlorobenzene	13.34	146	74567	19.672	ug/l	99
85) n-Butylbenzene	13.59	91	114449	19.067	ug/l	100
86) Hexachloroethane	13.85	117	28798	20.244	ug/l	98
87) 1,2-Dichlorobenzene	13.63	146	75032	20.201	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.24	75	7847	18.729	ug/l	96
89) 1,2,4-Trichlorobenzene	14.88	180	33373	18.206	ug/l	97
90) Hexachlorobutadiene	14.98	225	28154	20.751	ug/l	99
91) Naphthalene	15.10	128	65721	16.226	ug/l	98
92) 1,2,3-Trichlorobenzene	15.28	180	33196	18.140	ug/l	98

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

