

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051420\
 Data File : VN061393.D
 Acq On : 14 May 2020 14:37
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 5/15/2020 2:10:38 PM

Quant Time: May 14 15:40:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N051420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 14 15:22:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	18171	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	106036	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	99359	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	49706	31.85	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.17%
60) 4-Bromofluorobenzene	12.37	95	49381	28.70	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.67%
63) Toluene-d8	10.06	98	138586	29.73	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	15748	16.849	ug/l 98
3) Chloromethane	2.03	50	31023	22.917	ug/l 99
4) Vinyl Chloride	2.16	62	41694	27.955	ug/l 99
5) Bromomethane	2.54	94	20906	24.056	ug/l 96
6) Chloroethane	2.68	64	28522	29.632	ug/l 95
7) Trichlorofluoromethane	2.98	101	44216	25.005	ug/l 98
8) Diethyl Ether	3.37	74	13488	21.061	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.72	101	18678	19.539	ug/l 95
10) 1,1-Dichloroethene	3.70	96	19237	20.330	ug/l 95
11) Methyl Iodide	3.91	142	20182	16.020	ug/l 98
12) Methyl Acetate	4.28	43	23443	16.157	ug/l 97
13) Acrolein	3.57	56	18945	109.176	ug/l 98
14) Acrylonitrile	4.93	53	56214	94.720	ug/l 97
15) Acetone	3.77	58	13613	79.934	ug/l 98
16) Carbon Disulfide	4.01	76	60068	21.443	ug/l 99
17) Allyl chloride	4.28	41	39694	20.878	ug/l 96
18) Methylene Chloride	4.50	84	22351	19.639	ug/l 93
19) trans-1,2-Dichloroethene	4.99	96	22296	21.386	ug/l 97
20) Diisopropyl ether	5.90	45	92022	23.086	ug/l 94
21) 1,1-Dichloroethane	5.80	63	48004	22.058	ug/l 100
22) cis-1,2-Dichloroethene	6.78	96	26959	21.592	ug/l 96
23) tert-Butyl Alcohol	4.73	59	18447	79.019	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	78343	21.742	ug/l 98
25) Chloroform	7.33	83	46028	21.400	ug/l 95
26) Cyclohexane	7.61	56	45792	23.442	ug/l # 97
29) 1,1-Dichloropropene	7.75	75	37033	21.794	ug/l 98
30) 2-Butanone	6.79	43	79732	86.979	ug/l 98
31) 2,2-Dichloropropane	6.78	77	42718	21.281	ug/l # 75
32) 1,1,1-Trichloroethane	7.53	97	40734	21.022	ug/l 97
33) Carbon Tetrachloride	7.73	117	30568	18.723	ug/l 98
34) Benzene	8.00	78	105396	21.245	ug/l 98
35) Methacrylonitrile	7.13	41	19615	22.818	ug/l 90
36) 1,2-Dichloroethane	8.09	62	40473	21.342	ug/l 99
37) Trichloroethene	8.80	130	25320	20.873	ug/l 100
38) Methylcyclohexane	9.05	83	44296	22.259	ug/l 98
39) 1,2-Dichloropropane	9.08	63	29330	21.616	ug/l 99
40) Dibromomethane	9.18	93	17379	20.524	ug/l 92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	38466	21.837	ug/l	99
42) Vinyl Acetate	5.84	43	372595	111.309	ug/l	99
43) Ethyl Acetate	6.88	43	36141	19.713	ug/l	94
44) Isopropyl Acetate	8.12	43	66100	21.627	ug/l	99
45) 1,4-Dioxane	9.17	88	5006	238.424	ug/l #	90
46) Methyl methacrylate	9.17	41	30831	21.812	ug/l	93
47) n-amyl Acetate	12.04	43	57750	21.284	ug/l	97
48) t-1,3-Dichloropropene	10.35	75	45231	21.985	ug/l	97
49) cis-1,3-Dichloropropene	9.81	75	47338	21.988	ug/l	95
50) 1,1,2-Trichloroethane	10.53	97	24053	20.005	ug/l	99
51) Ethyl methacrylate	10.40	69	41926	21.279	ug/l	93
52) 1,3-Dichloropropane	10.68	76	45731	21.068	ug/l	99
53) Dibromochloromethane	10.87	129	26273	20.204	ug/l	98
54) 1,2-Dibromoethane	10.98	107	24954	19.960	ug/l	98
55) 2-Chloroethyl vinyl ether	9.66	63	91519	97.306	ug/l	99
56) Bromoform	12.10	173	16026	18.048	ug/l #	98
58) 4-Methyl-2-Pentanone	9.95	43	180365	101.031	ug/l	99
59) 2-Hexanone	10.72	43	127380	92.100	ug/l	99
61) Tetrachloroethene	10.60	164	24132	22.166	ug/l	93
62) Toluene	10.12	91	112011	20.938	ug/l	98
64) Chlorobenzene	11.41	112	65662	20.224	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	24020	19.795	ug/l	99
66) Ethyl Benzene	11.48	91	127085	21.334	ug/l	99
67) m/p-Xylenes	11.59	106	93318	42.015	ug/l	98
68) o-Xylene	11.92	106	45138	20.943	ug/l	98
69) Styrene	11.94	104	75236	21.018	ug/l	98
70) Isopropylbenzene	12.22	105	120276	20.777	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	34188	18.094	ug/l	97
72) 1,2,3-Trichloropropane	12.53	75	33780m	19.479	ug/l	
73) Bromobenzene	12.50	156	24530	17.974	ug/l	89
74) n-propylbenzene	12.56	91	142951	21.090	ug/l	99
75) 2-Chlorotoluene	12.65	91	82862	20.371	ug/l	96
76) 1,3,5-Trimethylbenzene	12.71	105	100828	20.397	ug/l	98
77) t-1,4-Dichloro-2-butene	12.27	75	13018	19.416	ug/l	97
78) 4-Chlorotoluene	12.75	91	85502	20.352	ug/l	99
79) tert-butylbenzene	12.97	119	84213	20.024	ug/l	97
80) 1,2,4-Trimethylbenzene	13.01	105	99308	20.259	ug/l	99
81) sec-Butylbenzene	13.15	105	116169	20.454	ug/l	99
82) p-Isopropyltoluene	13.27	119	103520	20.287	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	44956	18.148	ug/l	97
84) 1,4-Dichlorobenzene	13.34	146	45122	18.227	ug/l	98
85) n-Butylbenzene	13.59	91	95541	20.294	ug/l	98
86) Hexachloroethane	13.85	117	13865	15.711	ug/l	83
87) 1,2-Dichlorobenzene	13.63	146	44081	18.031	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.25	75	7479	17.828	ug/l	90
89) 1,2,4-Trichlorobenzene	14.89	180	25303	16.606	ug/l	96
90) Hexachlorobutadiene	14.99	225	10092	13.361	ug/l	96
91) Naphthalene	15.10	128	78000	17.234	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	24365	16.474	ug/l	97

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

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