

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051420\
 Data File : VN061392.D
 Acq On : 14 May 2020 14:14
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 5/15/2020 2:10:35 PM

Quant Time: May 14 15:38:41 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	7.14	128	18631	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.54	114	109909	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	100223	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.98	65	51479	32.17	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	107.23%
60) 4-Bromofluorobenzene	12.37	95	48527	27.96	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.20%
63) Toluene-d8	10.06	98	141788	30.15	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	4323	4.511	ug/l 94
3) Chloromethane	2.03	50	8699	6.267	ug/l 97
4) Vinyl Chloride	2.16	62	11646	7.615	ug/l 99
5) Bromomethane	2.54	94	6120	6.868	ug/l 94
6) Chloroethane	2.67	64	8318	8.428	ug/l 92
7) Trichlorofluoromethane	2.98	101	12706	7.008	ug/l 90
8) Diethyl Ether	3.37	74	3835	5.840	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.71	101	4957	5.057	ug/l 69
10) 1,1-Dichloroethene	3.69	96	5385	5.551	ug/l 94
11) Methyl Iodide	3.91	142	5423	4.198	ug/l 98
12) Methyl Acetate	4.27	43	6405	4.305	ug/l 93
13) Acrolein	3.57	56	6647m	37.359	ug/l
14) Acrylonitrile	4.92	53	14518	23.859	ug/l 99
15) Acetone	3.77	58	3942	22.575	ug/l 87
16) Carbon Disulfide	4.00	76	16343	5.690	ug/l 99
17) Allyl chloride	4.27	41	10597	5.436	ug/l 97
18) Methylene Chloride	4.49	84	6657	5.705	ug/l 92
19) trans-1,2-Dichloroethene	4.98	96	6393	5.981	ug/l 81
20) Diisopropyl ether	5.90	45	24538	6.004	ug/l 90
21) 1,1-Dichloroethane	5.80	63	12552	5.625	ug/l # 93
22) cis-1,2-Dichloroethene	6.78	96	7143m	5.580	ug/l
23) tert-Butyl Alcohol	4.73	59	5111	21.353	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	21168	5.730	ug/l 99
25) Chloroform	7.32	83	12194	5.529	ug/l 95
26) Cyclohexane	7.61	56	12632	6.307	ug/l # 97
29) 1,1-Dichloropropene	7.75	75	10040	5.700	ug/l 96
30) 2-Butanone	6.78	43	21577	22.709	ug/l # 94
31) 2,2-Dichloropropane	6.78	77	12209	5.868	ug/l 96
32) 1,1,1-Trichloroethane	7.53	97	11115	5.534	ug/l 95
33) Carbon Tetrachloride	7.73	117	7991	4.722	ug/l 93
34) Benzene	8.00	78	27697	5.386	ug/l # 60
35) Methacrylonitrile	7.11	41	3979	4.466	ug/l 82
36) 1,2-Dichloroethane	8.08	62	10848	5.519	ug/l 98
37) Trichloroethene	8.80	130	6662	5.299	ug/l 96
38) Methylcyclohexane	9.04	83	12341	5.983	ug/l 98
39) 1,2-Dichloropropane	9.08	63	7882	5.604	ug/l 95
40) Dibromomethane	9.17	93	4830	5.503	ug/l 89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	10103	5.533	ug/l	98
42) Vinyl Acetate	5.84	43	99168	28.581	ug/l	100
43) Ethyl Acetate	6.87	43	7451m	3.921	ug/l	
44) Isopropyl Acetate	8.12	43	17691	5.584	ug/l	98
45) 1,4-Dioxane	9.16	88	1451	66.672	ug/l	91
46) Methyl methacrylate	9.17	41	8659	5.910	ug/l	92
47) n-amyl Acetate	12.04	43	14529	5.166	ug/l	91
48) t-1,3-Dichloropropene	10.35	75	11561	5.421	ug/l	95
49) cis-1,3-Dichloropropene	9.81	75	13053	5.849	ug/l	92
50) 1,1,2-Trichloroethane	10.53	97	6587	5.285	ug/l	93
51) Ethyl methacrylate	10.40	69	10896	5.335	ug/l	93
52) 1,3-Dichloropropane	10.68	76	11504	5.113	ug/l	98
53) Dibromochloromethane	10.87	129	6698	4.969	ug/l	97
54) 1,2-Dibromoethane	10.98	107	6685	5.159	ug/l	93
55) 2-Chloroethyl vinyl ether	9.66	63	23991	24.609	ug/l	99
56) Bromoform	12.10	173	3928	4.268	ug/l #	96
58) 4-Methyl-2-Pentanone	9.95	43	47985	26.647	ug/l	98
59) 2-Hexanone	10.72	43	32797	23.509	ug/l	100
61) Tetrachloroethene	10.60	164	6070	5.527	ug/l	94
62) Toluene	10.12	91	29278	5.426	ug/l	99
64) Chlorobenzene	11.40	112	17140	5.234	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.48	131	6137	5.014	ug/l	99
66) Ethyl Benzene	11.48	91	33744	5.616	ug/l	99
67) m/p-Xylenes	11.59	106	23993	10.709	ug/l	98
68) o-Xylene	11.92	106	11227	5.164	ug/l	96
69) Styrene	11.94	104	18472	5.116	ug/l	97
70) Isopropylbenzene	12.22	105	31255	5.353	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	9078	4.763	ug/l	99
72) 1,2,3-Trichloropropane	12.53	75	8102m	4.632	ug/l	
73) Bromobenzene	12.50	156	6250	4.540	ug/l	92
74) n-propylbenzene	12.56	91	37112	5.428	ug/l	98
75) 2-Chlorotoluene	12.65	91	20880	5.089	ug/l	98
76) 1,3,5-Trimethylbenzene	12.71	105	25647	5.144	ug/l	98
77) t-1,4-Dichloro-2-butene	12.28	75	3175	4.695	ug/l	94
78) 4-Chlorotoluene	12.75	91	21178	4.997	ug/l	96
79) tert-butylbenzene	12.97	119	21424	5.050	ug/l	96
80) 1,2,4-Trimethylbenzene	13.01	105	25701	5.198	ug/l	97
81) sec-Butylbenzene	13.15	105	28497	4.974	ug/l	100
82) p-Isopropyltoluene	13.26	119	25579	4.969	ug/l	97
83) 1,3-Dichlorobenzene	13.26	146	11267	4.509	ug/l	98
84) 1,4-Dichlorobenzene	13.34	146	10756	4.307	ug/l	96
85) n-Butylbenzene	13.59	91	23222	4.890	ug/l	98
86) Hexachloroethane	13.85	117	3682	4.136	ug/l	80
87) 1,2-Dichlorobenzene	13.63	146	10421	4.226	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.24	75	1825	4.313	ug/l	85
89) 1,2,4-Trichlorobenzene	14.89	180	5292	3.443	ug/l	99
90) Hexachlorobutadiene	14.99	225	2566	3.368	ug/l	95
91) Naphthalene	15.11	128	16847	3.690	ug/l	100
92) 1,2,3-Trichlorobenzene	15.28	180	5466m	3.664	ug/l	

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

