

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082020\
 Data File : VN063027.D
 Acq On : 20 Aug 2020 10:11
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/21/2020 9:22:54 AM

Quant Time: Aug 20 11:37:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Aug 20 11:30:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.14	128	30694	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	148222	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	144373	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	65897	25.18	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	83.93%
60) 4-Bromofluorobenzene	12.38	95	61281	24.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	81.37%
63) Toluene-d8	10.06	98	199505	29.52	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	7132	2.932	ug/l 100
3) Chloromethane	2.03	50	8836	3.914	ug/l 100
4) Vinyl Chloride	2.16	62	9053	3.780	ug/l 96
5) Bromomethane	2.53	94	6513	3.416	ug/l 99
6) Chloroethane	2.67	64	6040	3.190	ug/l 98
7) Trichlorofluoromethane	2.98	101	13096	3.167	ug/l 98
8) Diethyl Ether	3.37	74	4331	4.439	ug/l 92
9) 1,1,2-Trichlorotrifluoroet	3.72	101	8332	5.583	ug/l 95
10) 1,1-Dichloroethene	3.70	96	7096	5.172	ug/l 93
11) Methyl Iodide	3.91	142	8396	4.406	ug/l 99
12) Methyl Acetate	4.27	43	8354m	4.111	ug/l
13) Acrolein	3.57	56	5460	20.878	ug/l 97
14) Acrylonitrile	4.93	53	16387	18.444	ug/l # 87
15) Acetone	3.78	58	5730	24.005	ug/l 88
16) Carbon Disulfide	4.00	76	16988	4.337	ug/l 98
17) Allyl chloride	4.27	41	11309	4.742	ug/l 96
18) Methylene Chloride	4.50	84	9751	5.466	ug/l 96
19) trans-1,2-Dichloroethene	4.98	96	7328	4.803	ug/l 97
20) Diisopropyl ether	5.90	45	24542	4.429	ug/l # 87
21) 1,1-Dichloroethane	5.80	63	16307	5.085	ug/l 98
22) cis-1,2-Dichloroethene	6.78	96	9171	5.029	ug/l 97
23) tert-Butyl Alcohol	4.73	59	5933m	16.415	ug/l
24) Methyl tert-Butyl Ether	4.99	73	20709	3.614	ug/l 98
25) Chloroform	7.33	83	16428	4.754	ug/l 98
26) Cyclohexane	7.61	56	9377	3.444	ug/l # 97
29) 1,1-Dichloropropene	7.75	75	9617	4.596	ug/l 97
30) 2-Butanone	6.79	43	21762	20.355	ug/l 96
31) 2,2-Dichloropropane	6.77	77	13609	6.280	ug/l # 77
32) 1,1,1-Trichloroethane	7.52	97	13714	4.841	ug/l 99
33) Carbon Tetrachloride	7.73	117	11155	4.484	ug/l 94
34) Benzene	8.00	78	34744	5.426	ug/l # 71
35) Methacrylonitrile	7.12	41	3892	4.044	ug/l 92
36) 1,2-Dichloroethane	8.08	62	12324	4.589	ug/l 95
37) Trichloroethene	8.80	130	8793	5.556	ug/l 99
38) Methylcyclohexane	9.04	83	9457	3.765	ug/l 96
39) 1,2-Dichloropropane	9.08	63	9974	5.651	ug/l 94
40) Dibromomethane	9.17	93	5871	5.035	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	12555	4.833	ug/l	96
42) Vinyl Acetate	5.84	43	86539	23.576	ug/l	99
43) Ethyl Acetate	6.88	43	7907	3.852	ug/l #	68
44) Isopropyl Acetate	8.12	43	14291	4.137	ug/l	92
45) 1,4-Dioxane	9.16	88	2218m	66.884	ug/l	
46) Methyl methacrylate	9.17	41	6092	3.568	ug/l	96
47) n-amyl Acetate	12.05	43	9631	3.179	ug/l	98
48) t-1,3-Dichloropropene	10.35	75	11552	4.254	ug/l	96
49) cis-1,3-Dichloropropene	9.81	75	12670	4.563	ug/l	96
50) 1,1,2-Trichloroethane	10.53	97	8840	5.233	ug/l	98
51) Ethyl methacrylate	10.40	69	8553	3.403	ug/l	99
52) 1,3-Dichloropropane	10.68	76	13957	4.821	ug/l	98
53) Dibromochloromethane	10.87	129	9845	4.943	ug/l	94
54) 1,2-Dibromoethane	10.98	107	8275	4.789	ug/l	97
55) 2-Chloroethyl vinyl ether	9.66	63	8088	13.344	ug/l	98
56) Bromoform	12.10	173	6285	4.439	ug/l #	96
58) 4-Methyl-2-Pentanone	9.95	43	39722	16.862	ug/l	98
59) 2-Hexanone	10.72	43	28187	16.489	ug/l	94
61) Tetrachloroethene	10.60	164	8129	5.547	ug/l	98
62) Toluene	10.12	91	35783	4.856	ug/l	98
64) Chlorobenzene	11.40	112	22018	4.767	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	9377	4.960	ug/l	96
66) Ethyl Benzene	11.48	91	32818	4.039	ug/l	99
67) m/p-Xylenes	11.59	106	24200	8.054	ug/l	99
68) o-Xylene	11.92	106	11386	3.946	ug/l	99
69) Styrene	11.94	104	18875	3.695	ug/l	99
70) Isopropylbenzene	12.22	105	31319	3.843	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.48	83	12179	4.517	ug/l	97
72) 1,2,3-Trichloropropane	12.53	75	10258m	3.997	ug/l	
73) Bromobenzene	12.50	156	9717	4.770	ug/l	97
74) n-propylbenzene	12.56	91	36276	3.831	ug/l	97
75) 2-Chlorotoluene	12.65	91	24074	4.077	ug/l	98
76) 1,3,5-Trimethylbenzene	12.71	105	25275	3.493	ug/l	99
77) t-1,4-Dichloro-2-butene	12.28	75	2806	3.276	ug/l	89
78) 4-Chlorotoluene	12.75	91	22661	3.754	ug/l	99
79) tert-butylbenzene	12.97	119	22195	3.722	ug/l	98
80) 1,2,4-Trimethylbenzene	13.01	105	22880	3.241	ug/l	96
81) sec-Butylbenzene	13.15	105	29659	3.722	ug/l	98
82) p-Isopropyltoluene	13.26	119	24037	3.401	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	15451	4.335	ug/l	98
84) 1,4-Dichlorobenzene	13.34	146	13748	3.926	ug/l	96
85) n-Butylbenzene	13.59	91	19232	3.167	ug/l	99
86) Hexachloroethane	13.85	117	6515	4.224	ug/l	94
87) 1,2-Dichlorobenzene	13.63	146	14247	3.865	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.25	75	1545	2.492	ug/l	92
89) 1,2,4-Trichlorobenzene	14.89	180	4273	2.527	ug/l	94
90) Hexachlorobutadiene	14.98	225	5970	5.123	ug/l	97
91) Naphthalene	15.10	128	9183	2.051	ug/l	98
92) 1,2,3-Trichlorobenzene	15.29	180	5160	3.041	ug/l	99

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

