

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082020\
 Data File : VN063029.D
 Acq On : 20 Aug 2020 10:59
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 8/21/2020 9:22:40 AM

Quant Time: Aug 20 14:01:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Aug 20 13:39:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	31982	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	161461	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	155374	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	68005	30.01	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.03%
60) 4-Bromofluorobenzene	12.37	95	76489	31.15	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.83%
63) Toluene-d8	10.06	98	216488	30.36	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	128051	56.000	ug/l 98
3) Chloromethane	2.03	50	136442	53.924	ug/l 98
4) Vinyl Chloride	2.16	62	138724	54.461	ug/l 100
5) Bromomethane	2.52	94	80805	51.464	ug/l 99
6) Chloroethane	2.66	64	80848	53.704	ug/l 99
7) Trichlorofluoromethane	2.98	101	164968	53.705	ug/l 99
8) Diethyl Ether	3.37	74	52581	51.468	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.72	101	86169	51.881	ug/l 99
10) 1,1-Dichloroethene	3.70	96	77524	51.944	ug/l 99
11) Methyl Iodide	3.91	142	114097	55.720	ug/l 97
12) Methyl Acetate	4.28	43	102957	51.754	ug/l 100
13) Acrolein	3.57	56	53180	260.830	ug/l 97
14) Acrylonitrile	4.93	53	227609	261.296	ug/l 98
15) Acetone	3.77	58	68538	271.863	ug/l 97
16) Carbon Disulfide	4.01	76	208514	52.043	ug/l 99
17) Allyl chloride	4.27	41	140109	51.162	ug/l 96
18) Methylene Chloride	4.50	84	102171	48.929	ug/l 99
19) trans-1,2-Dichloroethene	4.99	96	85551	52.129	ug/l 97
20) Diisopropyl ether	5.90	45	347339	54.153	ug/l 92
21) 1,1-Dichloroethane	5.80	63	181685	51.613	ug/l 99
22) cis-1,2-Dichloroethene	6.78	96	104850	51.554	ug/l 99
23) tert-Butyl Alcohol	4.74	59	68096	238.619	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	290659	53.087	ug/l 99
25) Chloroform	7.33	83	181989	51.913	ug/l 98
26) Cyclohexane	7.61	56	165897	54.746	ug/l # 99
29) 1,1-Dichloropropene	7.75	75	126317	53.871	ug/l 99
30) 2-Butanone	6.79	43	293408	268.468	ug/l 100
31) 2,2-Dichloropropane	6.77	77	152357	53.456	ug/l 99
32) 1,1,1-Trichloroethane	7.53	97	149983	53.108	ug/l 99
33) Carbon Tetrachloride	7.73	117	127834	53.156	ug/l 96
34) Benzene	8.00	78	400452	53.293	ug/l # 92
35) Methacrylonitrile	7.14	41	57817m	56.727	ug/l
36) 1,2-Dichloroethane	8.09	62	135507	52.859	ug/l 98
37) Trichloroethene	8.80	130	96509	52.445	ug/l 100
38) Methylcyclohexane	9.05	83	163390	55.555	ug/l 97
39) 1,2-Dichloropropane	9.09	63	116931	53.468	ug/l 98
40) Dibromomethane	9.18	93	67642	53.273	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	148032	52.610	ug/l	99
42) Vinyl Acetate	5.84	43	1088499	262.913	ug/l	100
43) Ethyl Acetate	6.88	43	109810	52.641	ug/l	100
44) Isopropyl Acetate	8.12	43	183054	52.273	ug/l #	84
45) 1,4-Dioxane	9.17	88	36089	1100.337	ug/l	95
46) Methyl methacrylate	9.17	41	91179	52.884	ug/l	99
47) n-amyl Acetate	12.05	43	167454	53.876	ug/l	100
48) t-1,3-Dichloropropene	10.35	75	157796	53.100	ug/l	99
49) cis-1,3-Dichloropropene	9.81	75	174448	53.931	ug/l	98
50) 1,1,2-Trichloroethane	10.53	97	103195	52.711	ug/l	98
51) Ethyl methacrylate	10.40	69	144924	54.410	ug/l	100
52) 1,3-Dichloropropane	10.68	76	172160	53.227	ug/l	99
53) Dibromochloromethane	10.87	129	115462	53.745	ug/l	99
54) 1,2-Dibromoethane	10.98	107	100114	53.307	ug/l	97
55) 2-Chloroethyl vinyl ether	9.66	63	141609	258.830	ug/l	99
56) Bromoform	12.10	173	83766	53.247	ug/l	97
58) 4-Methyl-2-Pentanone	9.95	43	599750	268.330	ug/l	99
59) 2-Hexanone	10.72	43	430399	269.939	ug/l	97
61) Tetrachloroethene	10.60	164	88667	52.056	ug/l	95
62) Toluene	10.12	91	435419	52.877	ug/l	98
64) Chlorobenzene	11.41	112	270670	53.122	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	108027	53.491	ug/l	100
66) Ethyl Benzene	11.48	91	486993	54.254	ug/l	99
67) m/p-Xylenes	11.60	106	373351	111.027	ug/l	99
68) o-Xylene	11.92	106	175285	54.264	ug/l	99
69) Styrene	11.94	104	317792	56.318	ug/l	99
70) Isopropylbenzene	12.22	105	485817	55.287	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	148669	52.758	ug/l	99
72) 1,2,3-Trichloropropane	12.53	75	131868m	54.145	ug/l	
73) Bromobenzene	12.50	156	127271	53.708	ug/l	99
74) n-propylbenzene	12.57	91	581695	55.185	ug/l	100
75) 2-Chlorotoluene	12.65	91	339906	54.105	ug/l	99
76) 1,3,5-Trimethylbenzene	12.71	105	416649	55.560	ug/l	98
77) t-1,4-Dichloro-2-butene	12.27	75	47700	53.976	ug/l	96
78) 4-Chlorotoluene	12.75	91	351554	54.276	ug/l	98
79) tert-butylbenzene	12.97	119	347830	55.126	ug/l	98
80) 1,2,4-Trimethylbenzene	13.01	105	410755	56.271	ug/l	100
81) sec-Butylbenzene	13.15	105	482882	55.556	ug/l	100
82) p-Isopropyltoluene	13.26	119	433656	56.279	ug/l	100
83) 1,3-Dichlorobenzene	13.26	146	227030	54.872	ug/l	98
84) 1,4-Dichlorobenzene	13.34	146	223827	55.351	ug/l	100
85) n-Butylbenzene	13.59	91	349651	54.603	ug/l	98
86) Hexachloroethane	13.85	117	82238	54.189	ug/l	98
87) 1,2-Dichlorobenzene	13.63	146	220370	55.613	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.24	75	23755	53.146	ug/l	96
89) 1,2,4-Trichlorobenzene	14.88	180	107878	55.166	ug/l	99
90) Hexachlorobutadiene	14.98	225	77265	53.381	ug/l	98
91) Naphthalene	15.10	128	224556	51.968	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	104081	53.312	ug/l	98

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

