

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071320\
 Data File : VN062518.D
 Acq On : 13 Jul 2020 16:13
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/14/2020 11:37:00 AM

Quant Time: Jul 14 01:21:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Jul 14 00:52:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	41938	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	230544	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	210163	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	102869	28.55	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.17%
60) 4-Bromofluorobenzene	12.37	95	106003	29.64	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.80%
63) Toluene-d8	10.06	98	302774	30.49	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	50505	20.404	ug/l 96
3) Chloromethane	2.04	50	71492	20.002	ug/l 99
4) Vinyl Chloride	2.16	62	62443	19.986	ug/l 99
5) Bromomethane	2.54	94	27325	17.629	ug/l 91
6) Chloroethane	2.67	64	29177	18.970	ug/l 97
7) Trichlorofluoromethane	2.98	101	69427	18.960	ug/l 98
8) Diethyl Ether	3.37	74	34687	19.705	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.72	101	46668	19.714	ug/l 97
10) 1,1-Dichloroethene	3.70	96	47408	19.631	ug/l 94
11) Methyl Iodide	3.91	142	56011	18.939	ug/l 97
12) Methyl Acetate	4.28	43	60135	18.567	ug/l 98
13) Acrolein	3.57	56	43323	89.526	ug/l 99
14) Acrylonitrile	4.93	53	139560	92.649	ug/l 99
15) Acetone	3.77	58	35907	77.652	ug/l 99
16) Carbon Disulfide	4.01	76	151574	19.260	ug/l 99
17) Allyl chloride	4.27	41	93772	18.257	ug/l 97
18) Methylene Chloride	4.50	84	58095	19.550	ug/l 98
19) trans-1,2-Dichloroethene	4.99	96	51933	19.429	ug/l 95
20) Diisopropyl ether	5.90	45	209445	19.837	ug/l 99
21) 1,1-Dichloroethane	5.80	63	109429	19.604	ug/l 98
22) cis-1,2-Dichloroethene	6.78	96	59501	19.739	ug/l 99
23) tert-Butyl Alcohol	4.73	59	47968	95.153	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	172444	19.368	ug/l 99
25) Chloroform	7.33	83	100274	19.588	ug/l 98
26) Cyclohexane	7.61	56	97732	19.864	ug/l # 98
29) 1,1-Dichloropropene	7.75	75	79106	20.229	ug/l 98
30) 2-Butanone	6.78	43	188826	91.047	ug/l 98
31) 2,2-Dichloropropane	6.77	77	86615	19.643	ug/l # 71
32) 1,1,1-Trichloroethane	7.52	97	84770	20.169	ug/l 98
33) Carbon Tetrachloride	7.73	117	72007	19.763	ug/l 99
34) Benzene	8.00	78	236125	20.324	ug/l 97
35) Methacrylonitrile	7.12	41	42375	23.260	ug/l 97
36) 1,2-Dichloroethane	8.08	62	84510	20.238	ug/l 100
37) Trichloroethene	8.80	130	52560	20.141	ug/l 98
38) Methylcyclohexane	9.05	83	87757	20.004	ug/l 98
39) 1,2-Dichloropropane	9.08	63	66602	20.122	ug/l 100
40) Dibromomethane	9.17	93	37965	19.903	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	80734	19.955	ug/l	99
42) Vinyl Acetate	5.84	43	862073	100.030	ug/l	100
43) Ethyl Acetate	6.88	43	80403	19.283	ug/l	99
44) Isopropyl Acetate	8.12	43	136883	19.567	ug/l	98
45) 1,4-Dioxane	9.16	88	18211	380.544	ug/l	95
46) Methyl methacrylate	9.17	41	62747	18.906	ug/l	96
47) n-amyl Acetate	12.04	43	110119	18.674	ug/l	97
48) t-1,3-Dichloropropene	10.35	75	92516	19.605	ug/l	98
49) cis-1,3-Dichloropropene	9.81	75	101423	19.910	ug/l	98
50) 1,1,2-Trichloroethane	10.53	97	53911	20.163	ug/l	98
51) Ethyl methacrylate	10.40	69	87509	19.439	ug/l	99
52) 1,3-Dichloropropane	10.68	76	96884	19.743	ug/l	97
53) Dibromochloromethane	10.87	129	58059	19.930	ug/l	99
54) 1,2-Dibromoethane	10.98	107	54150	19.786	ug/l	100
55) 2-Chloroethyl vinyl ether	9.66	63	141560	98.454	ug/l	100
56) Bromoform	12.10	173	39388	19.796	ug/l	99
58) 4-Methyl-2-Pentanone	9.95	43	404504	98.788	ug/l	100
59) 2-Hexanone	10.72	43	282971	94.229	ug/l	99
61) Tetrachloroethene	10.60	164	44383	20.622	ug/l	93
62) Toluene	10.12	91	244055	20.470	ug/l	99
64) Chlorobenzene	11.40	112	142497	20.340	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	52508	20.248	ug/l	99
66) Ethyl Benzene	11.48	91	263416	19.951	ug/l	99
67) m/p-Xylenes	11.59	106	193397	40.357	ug/l	100
68) o-Xylene	11.92	106	91358	19.865	ug/l	100
69) Styrene	11.94	104	153526	19.669	ug/l	99
70) Isopropylbenzene	12.22	105	248120	20.098	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	80010	20.053	ug/l	100
72) 1,2,3-Trichloropropane	12.53	75	69639m	17.943	ug/l	
73) Bromobenzene	12.50	156	56737	19.844	ug/l	98
74) n-propylbenzene	12.56	91	294510	20.069	ug/l	100
75) 2-Chlorotoluene	12.65	91	177862	20.131	ug/l	99
76) 1,3,5-Trimethylbenzene	12.71	105	210523	20.013	ug/l	98
77) t-1,4-Dichloro-2-butene	12.27	75	27254	18.776	ug/l	97
78) 4-Chlorotoluene	12.75	91	179360	19.895	ug/l	99
79) tert-butylbenzene	12.97	119	175468	20.145	ug/l	99
80) 1,2,4-Trimethylbenzene	13.01	105	202806	19.603	ug/l	99
81) sec-Butylbenzene	13.15	105	233041	19.922	ug/l	100
82) p-Isopropyltoluene	13.26	119	203746	19.737	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	98309	19.799	ug/l	99
84) 1,4-Dichlorobenzene	13.34	146	95781	19.549	ug/l	97
85) n-Butylbenzene	13.59	91	166084	18.756	ug/l	98
86) Hexachloroethane	13.85	117	38181	19.168	ug/l	98
87) 1,2-Dichlorobenzene	13.63	146	96621	20.236	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.25	75	14419	19.135	ug/l	98
89) 1,2,4-Trichlorobenzene	14.89	180	44558	18.745	ug/l	99
90) Hexachlorobutadiene	14.99	225	26888	20.395	ug/l	96
91) Naphthalene	15.10	128	118454	18.380	ug/l	100
92) 1,2,3-Trichlorobenzene	15.28	180	46401	19.368	ug/l	99

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

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