

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082120\
 Data File : VN063072.D
 Acq On : 21 Aug 2020 11:16
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

sam
 8/24/2020 5:52:05 PM

Quant Time: Aug 22 00:58:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Aug 20 14:01:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	30746	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	160468	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	152760	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	65417	30.03	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.10%
60) 4-Bromofluorobenzene	12.38	95	72402	29.99	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.97%
63) Toluene-d8	10.06	98	210643	30.05	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.17%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	48784	22.192	ug/l 97
3) Chloromethane	2.04	50	52258	21.483	ug/l 97
4) Vinyl Chloride	2.16	62	52692	21.518	ug/l 100
5) Bromomethane	2.53	94	31417	20.813	ug/l 98
6) Chloroethane	2.67	64	30798	21.280	ug/l 96
7) Trichlorofluoromethane	2.98	101	62570	21.189	ug/l 98
8) Diethyl Ether	3.37	74	19839	20.200	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.72	101	32286	20.220	ug/l 99
10) 1,1-Dichloroethene	3.69	96	28527	19.883	ug/l 97
11) Methyl Iodide	3.91	142	38341	19.477	ug/l 98
12) Methyl Acetate	4.28	43	40438	21.144	ug/l 98
13) Acrolein	3.57	56	14527	74.114	ug/l 98
14) Acrylonitrile	4.93	53	85972	102.664	ug/l 98
15) Acetone	3.78	58	27278	112.551	ug/l 96
16) Carbon Disulfide	4.01	76	74937	19.455	ug/l 99
17) Allyl chloride	4.27	41	52236	19.841	ug/l 96
18) Methylene Chloride	4.50	84	38526	19.192	ug/l 95
19) trans-1,2-Dichloroethene	4.99	96	31320	19.852	ug/l 97
20) Diisopropyl ether	5.90	45	129336	20.975	ug/l 95
21) 1,1-Dichloroethane	5.80	63	68751	20.316	ug/l 99
22) cis-1,2-Dichloroethene	6.78	96	39171	20.035	ug/l 99
23) tert-Butyl Alcohol	4.73	59	24916	90.820	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	107573	20.437	ug/l 100
25) Chloroform	7.33	83	68754	20.401	ug/l 97
26) Cyclohexane	7.61	56	56967	19.555	ug/l # 98
29) 1,1-Dichloropropene	7.75	75	45554	19.548	ug/l 99
30) 2-Butanone	6.79	43	111045	102.235	ug/l 100
31) 2,2-Dichloropropane	6.77	77	56813	20.057	ug/l 98
32) 1,1,1-Trichloroethane	7.53	97	56575	20.157	ug/l 99
33) Carbon Tetrachloride	7.73	117	46857	19.605	ug/l 98
34) Benzene	8.00	78	148650	19.905	ug/l 97
35) Methacrylonitrile	7.13	41	20054m	19.426	ug/l
36) 1,2-Dichloroethane	8.08	62	50980	20.009	ug/l 98
37) Trichloroethene	8.80	130	36669	20.050	ug/l 100
38) Methylcyclohexane	9.04	83	55822	19.098	ug/l 99
39) 1,2-Dichloropropane	9.08	63	43550	20.037	ug/l 98
40) Dibromomethane	9.17	93	24534	19.442	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	55235	19.752	ug/l	97
42) Vinyl Acetate	5.84	43	397079	96.503	ug/l	100
43) Ethyl Acetate	6.88	43	39774	19.185	ug/l	100
44) Isopropyl Acetate	8.12	43	68870	19.788	ug/l	100
45) 1,4-Dioxane	9.17	88	12480	382.864	ug/l	99
46) Methyl methacrylate	9.17	41	33683	19.657	ug/l	96
47) n-amyl Acetate	12.05	43	57535	18.626	ug/l	99
48) t-1,3-Dichloropropene	10.35	75	57644	19.518	ug/l	94
49) cis-1,3-Dichloropropene	9.81	75	63004	19.598	ug/l	99
50) 1,1,2-Trichloroethane	10.53	97	39998	20.557	ug/l	97
51) Ethyl methacrylate	10.40	69	50637	19.129	ug/l	97
52) 1,3-Dichloropropane	10.68	76	64957	20.207	ug/l	100
53) Dibromochloromethane	10.87	129	41918	19.633	ug/l	99
54) 1,2-Dibromoethane	10.98	107	36996	19.821	ug/l	99
55) 2-Chloroethyl vinyl ether	9.66	63	39032	71.783	ug/l	99
56) Bromoform	12.10	173	30239	19.341	ug/l	97
58) 4-Methyl-2-Pentanone	9.95	43	221190	100.654	ug/l	100
59) 2-Hexanone	10.72	43	158331	101.002	ug/l	99
61) Tetrachloroethene	10.60	164	33855	20.216	ug/l	97
62) Toluene	10.12	91	162082	20.020	ug/l	100
64) Chlorobenzene	11.40	112	100460	20.054	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.48	131	39125	19.705	ug/l	99
66) Ethyl Benzene	11.48	91	172076	19.498	ug/l	99
67) m/p-Xylenes	11.59	106	132191	39.983	ug/l	99
68) o-Xylene	11.92	106	62651	19.727	ug/l	100
69) Styrene	11.94	104	109956	19.820	ug/l	99
70) Isopropylbenzene	12.22	105	172539	19.971	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	54789	19.776	ug/l	98
72) 1,2,3-Trichloropropane	12.53	75	49379m	20.086	ug/l	
73) Bromobenzene	12.50	156	45670	19.602	ug/l	99
74) n-propylbenzene	12.57	91	201787	19.471	ug/l	100
75) 2-Chlorotoluene	12.65	91	120879	19.570	ug/l	100
76) 1,3,5-Trimethylbenzene	12.71	105	144875	19.650	ug/l	100
77) t-1,4-Dichloro-2-butene	12.27	75	16500	18.990	ug/l	98
78) 4-Chlorotoluene	12.75	91	125334	19.681	ug/l	99
79) tert-butylbenzene	12.97	119	120959	19.498	ug/l	98
80) 1,2,4-Trimethylbenzene	13.01	105	138027	19.232	ug/l	98
81) sec-Butylbenzene	13.15	105	166628	19.499	ug/l	100
82) p-Isopropyltoluene	13.26	119	144367	19.056	ug/l	100
83) 1,3-Dichlorobenzene	13.26	146	79135	19.454	ug/l	99
84) 1,4-Dichlorobenzene	13.34	146	77009	19.370	ug/l	100
85) n-Butylbenzene	13.59	91	110271	17.515	ug/l	98
86) Hexachloroethane	13.85	117	29138	19.528	ug/l	96
87) 1,2-Dichlorobenzene	13.63	146	76062	19.523	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.25	75	8657	19.700	ug/l	99
89) 1,2,4-Trichlorobenzene	14.88	180	34068	17.719	ug/l	99
90) Hexachlorobutadiene	14.98	225	26349	18.516	ug/l	98
91) Naphthalene	15.10	128	72931	17.167	ug/l	98
92) 1,2,3-Trichlorobenzene	15.28	180	34637	18.045	ug/l	98

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

