

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082120\
 Data File : VN063085.D
 Acq On : 21 Aug 2020 17:03
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

sam
 8/24/2020 5:52:39 PM

Quant Time: Aug 22 01:17:57 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	27748	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	148293	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	138480	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	61413	31.24	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.13%
60) 4-Bromofluorobenzene	12.38	95	64688	29.56	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.53%
63) Toluene-d8	10.06	98	192728	30.33	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	39273	19.796	ug/l 97
3) Chloromethane	2.04	50	42668	19.436	ug/l 99
4) Vinyl Chloride	2.16	62	42427	19.198	ug/l 99
5) Bromomethane	2.49	94	17273	12.680	ug/l 98
6) Chloroethane	2.59	64	17637	13.503	ug/l 99
7) Trichlorofluoromethane	2.93	101	50940	19.114	ug/l 97
8) Diethyl Ether	3.37	74	17570	19.822	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.69	101	25094	17.414	ug/l 100
10) 1,1-Dichloroethene	3.67	96	23602	18.227	ug/l 96
11) Methyl Iodide	3.89	142	28361	15.964	ug/l 99
12) Methyl Acetate	4.28	43	38262	22.168	ug/l 98
13) Acrolein	3.56	56	17264	97.595	ug/l 97
14) Acrylonitrile	4.93	53	74817	98.996	ug/l 99
15) Acetone	3.79	58	16376	74.869	ug/l 88
16) Carbon Disulfide	3.98	76	59066	16.992	ug/l 97
17) Allyl chloride	4.26	41	41977	17.667	ug/l 94
18) Methylene Chloride	4.49	84	32442	17.907	ug/l 97
19) trans-1,2-Dichloroethene	4.98	96	25389	17.831	ug/l 96
20) Diisopropyl ether	5.90	45	107686	19.351	ug/l 95
21) 1,1-Dichloroethane	5.79	63	56979	18.656	ug/l 99
22) cis-1,2-Dichloroethene	6.78	96	32064	18.171	ug/l 97
23) tert-Butyl Alcohol	4.79	59	14238m	57.505	ug/l
24) Methyl tert-Butyl Ether	4.99	73	90012	18.949	ug/l 99
25) Chloroform	7.33	83	57165	18.795	ug/l 99
26) Cyclohexane	7.61	56	44917	17.084	ug/l # 100
29) 1,1-Dichloropropene	7.75	75	36681	17.033	ug/l 99
30) 2-Butanone	6.79	43	84131	83.815	ug/l 100
31) 2,2-Dichloropropane	6.77	77	40788	15.582	ug/l 99
32) 1,1,1-Trichloroethane	7.52	97	45812	17.662	ug/l 99
33) Carbon Tetrachloride	7.73	117	38073	17.237	ug/l 95
34) Benzene	8.00	78	123338	17.872	ug/l 98
35) Methacrylonitrile	7.12	41	16014	16.786	ug/l 92
36) 1,2-Dichloroethane	8.08	62	43772	18.591	ug/l 99
37) Trichloroethene	8.80	130	29554	17.486	ug/l 99
38) Methylcyclohexane	9.05	83	38560	14.275	ug/l 98
39) 1,2-Dichloropropane	9.08	63	37134	18.488	ug/l 98
40) Dibromomethane	9.17	93	21929	18.804	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	46463	17.979	ug/l	96
42) Vinyl Acetate	5.84	43	330660	86.959	ug/l	99
43) Ethyl Acetate	6.89	43	36860	19.239	ug/l	100
44) Isopropyl Acetate	8.13	43	60903	18.936	ug/l	95
45) 1,4-Dioxane	9.18	88	5046	167.512	ug/l #	92
46) Methyl methacrylate	9.17	41	28722	18.138	ug/l	99
47) n-amyl Acetate	12.05	43	53139	18.615	ug/l	97
48) t-1,3-Dichloropropene	10.36	75	48096	17.622	ug/l	98
49) cis-1,3-Dichloropropene	9.81	75	52035	17.515	ug/l	95
50) 1,1,2-Trichloroethane	10.54	97	33736	18.762	ug/l	98
51) Ethyl methacrylate	10.40	69	43022	17.586	ug/l	99
52) 1,3-Dichloropropane	10.68	76	55254	18.600	ug/l	100
53) Dibromochloromethane	10.87	129	34999	17.738	ug/l	98
54) 1,2-Dibromoethane	10.98	107	31599	18.319	ug/l	99
55) 2-Chloroethyl vinyl ether	9.66	63	58596	116.611	ug/l	100
56) Bromoform	12.10	173	25306	17.514	ug/l	96
58) 4-Methyl-2-Pentanone	9.96	43	196467	98.623	ug/l	100
59) 2-Hexanone	10.73	43	131771	92.727	ug/l	99
61) Tetrachloroethene	10.60	164	26052	17.161	ug/l	98
62) Toluene	10.12	91	132975	18.118	ug/l	99
64) Chlorobenzene	11.41	112	82015	18.060	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	32833	18.241	ug/l	99
66) Ethyl Benzene	11.49	91	136643	17.080	ug/l	100
67) m/p-Xylenes	11.60	106	105338	35.147	ug/l	97
68) o-Xylene	11.92	106	49473	17.184	ug/l	99
69) Styrene	11.94	104	87001	17.299	ug/l	99
70) Isopropylbenzene	12.23	105	130543	16.668	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	48008	19.115	ug/l	99
72) 1,2,3-Trichloropropane	12.53	75	40959m	18.379	ug/l	
73) Bromobenzene	12.50	156	36712	17.382	ug/l	96
74) n-propylbenzene	12.57	91	148723	15.831	ug/l	100
75) 2-Chlorotoluene	12.65	91	95298	17.020	ug/l	98
76) 1,3,5-Trimethylbenzene	12.71	105	105546	15.792	ug/l	99
77) t-1,4-Dichloro-2-butene	12.28	75	14304	18.161	ug/l	97
78) 4-Chlorotoluene	12.75	91	96960	16.796	ug/l	99
79) tert-butylbenzene	12.97	119	88022	15.652	ug/l	99
80) 1,2,4-Trimethylbenzene	13.02	105	97300	14.956	ug/l	99
81) sec-Butylbenzene	13.15	105	114657	14.801	ug/l	100
82) p-Isopropyltoluene	13.26	119	94969	13.828	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	62706	17.005	ug/l	100
84) 1,4-Dichlorobenzene	13.34	146	60645	16.827	ug/l	98
85) n-Butylbenzene	13.59	91	74216	13.004	ug/l	99
86) Hexachloroethane	13.85	117	21384	15.809	ug/l	98
87) 1,2-Dichlorobenzene	13.63	146	61947	17.540	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.25	75	7834	19.665	ug/l	96
89) 1,2,4-Trichlorobenzene	14.89	180	27905	16.011	ug/l	100
90) Hexachlorobutadiene	14.99	225	18097	14.028	ug/l	99
91) Naphthalene	15.11	128	63944	16.603	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	27883	16.024	ug/l	100

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

