

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081420\
 Data File : VN062928.D
 Acq On : 13 Aug 2020 22:57
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 8/17/2020 9:20:02 AM

Quant Time: Aug 14 05:44:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 14 05:30:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	27199	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	141223	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	133514	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	74210	31.43	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.77%
60) 4-Bromofluorobenzene	12.38	95	66385	29.27	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.57%
63) Toluene-d8	10.06	98	187194	29.86	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.53%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	50012	27.983	ug/l 100
3) Chloromethane	2.03	50	37333	16.676	ug/l 100
4) Vinyl Chloride	2.16	62	37352	18.662	ug/l 100
5) Bromomethane	2.52	94	36801	31.015	ug/l 100
6) Chloroethane	2.66	64	37929	32.236	ug/l 100
7) Trichlorofluoromethane	2.98	101	92025	32.758	ug/l 100
8) Diethyl Ether	3.37	74	17555	16.121	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.72	101	26633	17.781	ug/l 100
10) 1,1-Dichloroethene	3.69	96	24021	16.033	ug/l 100
11) Methyl Iodide	3.91	142	32494	17.328	ug/l 100
12) Methyl Acetate	4.28	43	36523	17.755	ug/l 100
13) Acrolein	3.57	56	21008	71.901	ug/l 100
14) Acrylonitrile	4.93	53	77899	82.657	ug/l 100
15) Acetone	3.78	58	22162m	80.799	ug/l 100
16) Carbon Disulfide	4.01	76	64617	13.576	ug/l 100
17) Allyl chloride	4.27	41	39401	12.966	ug/l 100
18) Methylene Chloride	4.50	84	30918	16.714	ug/l 100
19) trans-1,2-Dichloroethene	4.98	96	26021m	15.719	ug/l 100
20) Diisopropyl ether	5.91	45	99136	15.329	ug/l 100
21) 1,1-Dichloroethane	5.80	63	58809	16.857	ug/l 100
22) cis-1,2-Dichloroethene	6.79	96	32192	17.020	ug/l 100
23) tert-Butyl Alcohol	4.74	59	34711	105.068	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	104917	18.455	ug/l 100
25) Chloroform	7.33	83	62621	19.031	ug/l 100
26) Cyclohexane	7.61	56	46729	15.408	ug/l # 100
29) 1,1-Dichloropropene	7.75	75	40805	17.489	ug/l 100
30) 2-Butanone	6.79	43	103847	86.004	ug/l 100
31) 2,2-Dichloropropane	6.77	77	41820	16.249	ug/l 100
32) 1,1,1-Trichloroethane	7.53	97	56424	21.496	ug/l 100
33) Carbon Tetrachloride	7.73	117	50165	21.897	ug/l 100
34) Benzene	8.00	78	122441	17.694	ug/l 100
35) Methacrylonitrile	7.13	41	16386	15.633	ug/l 100
36) 1,2-Dichloroethane	8.09	62	53906	20.805	ug/l 100
37) Trichloroethene	8.80	130	30664	19.313	ug/l 100
38) Methylcyclohexane	9.05	83	47478	17.971	ug/l 100
39) 1,2-Dichloropropane	9.09	63	33560	17.151	ug/l 100
40) Dibromomethane	9.18	93	23082	19.814	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	51719	20.669	ug/l	100
42) Vinyl Acetate	5.85	43	336993	69.018	ug/l	100
43) Ethyl Acetate	6.89	43	40117	16.411	ug/l	100
44) Isopropyl Acetate	8.13	43	63942	15.673	ug/l	100
45) 1,4-Dioxane	9.17	88	13187	442.518	ug/l	100
46) Methyl methacrylate	9.17	41	32061	16.435	ug/l	100
47) n-amyl Acetate	12.05	43	56660	16.247	ug/l	100
48) t-1,3-Dichloropropene	10.35	75	52479	18.390	ug/l	100
49) cis-1,3-Dichloropropene	9.81	75	52024	17.178	ug/l	100
50) 1,1,2-Trichloroethane	10.53	97	33087	20.194	ug/l	100
51) Ethyl methacrylate	10.40	69	46810	17.423	ug/l	100
52) 1,3-Dichloropropane	10.68	76	56802	19.110	ug/l	100
53) Dibromochloromethane	10.87	129	39302	21.578	ug/l	100
54) 1,2-Dibromoethane	10.98	107	32623	19.443	ug/l	100
55) 2-Chloroethyl vinyl ether	9.66	63	50764	62.425	ug/l	100
56) Bromoform	12.10	173	27395	21.856	ug/l	100
58) 4-Methyl-2-Pentanone	9.95	43	221980	88.525	ug/l	100
59) 2-Hexanone	10.72	43	161714	88.100	ug/l	100
61) Tetrachloroethene	10.61	164	26304	19.419	ug/l	100
62) Toluene	10.13	91	135604	18.358	ug/l	100
64) Chlorobenzene	11.41	112	84174	19.059	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.48	131	35781	21.353	ug/l	100
66) Ethyl Benzene	11.48	91	145682	17.815	ug/l	100
67) m/p-Xylenes	11.60	106	112370	37.369	ug/l	100
68) o-Xylene	11.92	106	52004	18.165	ug/l	100
69) Styrene	11.94	104	94311	19.122	ug/l	100
70) Isopropylbenzene	12.22	105	149517	19.204	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	49965	19.771	ug/l	100
72) 1,2,3-Trichloropropane	12.53	75	52433m	21.000	ug/l	
73) Bromobenzene	12.50	156	36593	20.031	ug/l	100
74) n-propylbenzene	12.57	91	168964	18.355	ug/l	100
75) 2-Chlorotoluene	12.65	91	108980	19.458	ug/l	100
76) 1,3,5-Trimethylbenzene	12.71	105	130621	19.498	ug/l	100
77) t-1,4-Dichloro-2-butene	12.27	75	14838	16.621	ug/l	100
78) 4-Chlorotoluene	12.75	91	108348	19.014	ug/l	100
79) tert-butylbenzene	12.97	119	107932	19.526	ug/l	100
80) 1,2,4-Trimethylbenzene	13.01	105	126670	19.321	ug/l	100
81) sec-Butylbenzene	13.15	105	140215	18.940	ug/l	100
82) p-Isopropyltoluene	13.26	119	124228	18.977	ug/l	100
83) 1,3-Dichlorobenzene	13.26	146	63074	19.848	ug/l	100
84) 1,4-Dichlorobenzene	13.34	146	60092	19.204	ug/l	100
85) n-Butylbenzene	13.59	91	92416	16.691	ug/l	100
86) Hexachloroethane	13.85	117	26070	20.311	ug/l	100
87) 1,2-Dichlorobenzene	13.63	146	61813	20.186	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.24	75	9650	20.106	ug/l	100
89) 1,2,4-Trichlorobenzene	14.89	180	24782	16.661	ug/l	100
90) Hexachlorobutadiene	14.99	225	19017	21.926	ug/l	100
91) Naphthalene	15.11	128	61913	15.551	ug/l	100
92) 1,2,3-Trichlorobenzene	15.28	180	25141	16.832	ug/l	100

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

