

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110220\
 Data File : VN064413.D
 Acq On : 2 Nov 2020 14:14
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 11/3/2020 2:20:43 PM

Quant Time: Nov 02 15:16:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110220W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 02 15:04:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	54895	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	308656	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	283707	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	141189	29.10	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.00%
60) 4-Bromofluorobenzene	12.38	95	139515	28.03	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.43%
63) Toluene-d8	10.06	98	375604	29.79	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	70685	16.380	ug/l 100
3) Chloromethane	2.04	50	69297	16.904	ug/l 100
4) Vinyl Chloride	2.16	62	71629	17.771	ug/l 100
5) Bromomethane	2.54	94	47201	18.832	ug/l 100
6) Chloroethane	2.68	64	42344	18.620	ug/l 100
7) Trichlorofluoromethane	2.99	101	124006	19.687	ug/l 100
8) Diethyl Ether	3.37	74	35824	18.069	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.73	101	59640	18.585	ug/l 100
10) 1,1-Dichloroethene	3.70	96	55261	18.096	ug/l 100
11) Methyl Iodide	3.91	142	71185	16.426	ug/l 100
12) Methyl Acetate	4.28	43	59329	16.579	ug/l 100
13) Acrolein	3.57	56	28809m	109.387	ug/l
14) Acrylonitrile	4.93	53	130822	83.589	ug/l 100
15) Acetone	3.77	58	54671	116.305	ug/l 100
16) Carbon Disulfide	4.01	76	157584	17.360	ug/l 100
17) Allyl chloride	4.28	41	95893	16.609	ug/l 100
18) Methylene Chloride	4.50	84	64989	18.578	ug/l 100
19) trans-1,2-Dichloroethene	4.99	96	61213	18.205	ug/l 100
20) Diisopropyl ether	5.90	45	213879	18.179	ug/l 100
21) 1,1-Dichloroethane	5.80	63	120251	18.226	ug/l 100
22) cis-1,2-Dichloroethene	6.78	96	73011	18.860	ug/l 100
23) tert-Butyl Alcohol	4.73	59	51700	73.891	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	200668	17.517	ug/l 100
25) Chloroform	7.33	83	129926	18.977	ug/l 100
26) Cyclohexane	7.61	56	92006	17.146	ug/l 100
29) 1,1-Dichloropropene	7.75	75	90280	17.256	ug/l 100
30) 2-Butanone	6.78	43	225842	91.014	ug/l 100
31) 2,2-Dichloropropane	6.77	77	113489	17.982	ug/l 100
32) 1,1,1-Trichloroethane	7.53	97	123109	18.573	ug/l 100
33) Carbon Tetrachloride	7.73	117	110399	18.243	ug/l 100
34) Benzene	8.00	78	262564	18.473	ug/l 100
35) Methacrylonitrile	7.12	41	38550	15.271	ug/l 100
36) 1,2-Dichloroethane	8.08	62	112833	18.101	ug/l 100
37) Trichloroethene	8.80	130	71567	18.402	ug/l 100
38) Methylcyclohexane	9.05	83	82292	16.338	ug/l 100
39) 1,2-Dichloropropane	9.08	63	66983	17.748	ug/l 100
40) Dibromomethane	9.17	93	49230	18.537	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.37	83	104607	18.269	ug/l	100
42) Vinyl Acetate	5.84	43	886259	84.896	ug/l	100
43) Ethyl Acetate	6.88	43	72422	14.905	ug/l	100
44) Isopropyl Acetate	8.12	43	146698	16.194	ug/l #	73
45) 1,4-Dioxane	9.16	88	20059	291.889	ug/l	100
46) Methyl methacrylate	9.16	41	71436	16.189	ug/l	100
47) n-amyl Acetate	12.04	43	120384	15.785	ug/l	100
48) t-1,3-Dichloropropene	10.35	75	109071	17.159	ug/l	100
49) cis-1,3-Dichloropropene	9.80	75	115448	17.607	ug/l	100
50) 1,1,2-Trichloroethane	10.53	97	65949	18.574	ug/l	100
51) Ethyl methacrylate	10.40	69	89441	16.416	ug/l	100
52) 1,3-Dichloropropane	10.68	76	112641	18.127	ug/l	100
53) Dibromochloromethane	10.87	129	77638	17.932	ug/l	100
54) 1,2-Dibromoethane	10.97	107	69588	18.363	ug/l	100
55) 2-Chloroethyl vinyl ether	9.66	63	233757	85.745	ug/l	100
56) Bromoform	12.10	173	52136	17.014	ug/l	100
58) 4-Methyl-2-Pentanone	9.95	43	420999	82.855	ug/l	100
59) 2-Hexanone	10.72	43	324955	84.918	ug/l	100
61) Tetrachloroethene	10.60	164	72040	18.973	ug/l	100
62) Toluene	10.12	91	292504	18.670	ug/l	100
64) Chlorobenzene	11.40	112	182381	18.644	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.48	131	72809	18.867	ug/l	100
66) Ethyl Benzene	11.48	91	321269	18.125	ug/l	100
67) m/p-Xylenes	11.59	106	240752	36.672	ug/l	100
68) o-Xylene	11.92	106	115957	17.996	ug/l	100
69) Styrene	11.94	104	187099	17.553	ug/l	100
70) Isopropylbenzene	12.22	105	301556	17.779	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	85141	17.781	ug/l	100
72) 1,2,3-Trichloropropane	12.53	75	86126m	17.375	ug/l	
73) Bromobenzene	12.50	156	78744	18.711	ug/l	100
74) n-propylbenzene	12.56	91	327764	17.069	ug/l	100
75) 2-Chlorotoluene	12.65	91	212607	17.829	ug/l	100
76) 1,3,5-Trimethylbenzene	12.70	105	244325	17.150	ug/l	100
77) t-1,4-Dichloro-2-butene	12.27	75	29670	15.936	ug/l	100
78) 4-Chlorotoluene	12.75	91	214801	17.257	ug/l	100
79) tert-butylbenzene	12.97	119	200319	17.018	ug/l	100
80) 1,2,4-Trimethylbenzene	13.01	105	249637	17.347	ug/l	100
81) sec-Butylbenzene	13.14	105	248070	16.360	ug/l	100
82) p-Isopropyltoluene	13.26	119	225162	16.200	ug/l	100
83) 1,3-Dichlorobenzene	13.25	146	128621	17.706	ug/l	100
84) 1,4-Dichlorobenzene	13.33	146	130446	17.839	ug/l	100
85) n-Butylbenzene	13.59	91	180599	15.029	ug/l	100
86) Hexachloroethane	13.85	117	41111	15.965	ug/l	100
87) 1,2-Dichlorobenzene	13.63	146	128662	17.976	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.24	75	17488	14.881	ug/l	100
89) 1,2,4-Trichlorobenzene	14.88	180	58727	14.858	ug/l	100
90) Hexachlorobutadiene	14.98	225	32775	15.382	ug/l	100
91) Naphthalene	15.10	128	165266	14.135	ug/l	100
92) 1,2,3-Trichlorobenzene	15.28	180	55424	14.644	ug/l	100

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

