

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102020\
 Data File : VN064191.D
 Acq On : 20 Oct 2020 10:24
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 10/23/2020 2:28:35 PM

Quant Time: Oct 20 11:20:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 20 11:03:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.14	128	54515	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	313721	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	276900	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.98	65	139155	28.78	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.93%
60) 4-Bromofluorobenzene	12.37	95	150427	31.17	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.90%
63) Toluene-d8	10.06	98	379335	30.20	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	71511	20.080	ug/l 100
3) Chloromethane	2.04	50	71700	19.393	ug/l 100
4) Vinyl Chloride	2.16	62	71068	19.323	ug/l 100
5) Bromomethane	2.54	94	41015	17.600	ug/l 100
6) Chloroethane	2.68	64	40777	17.918	ug/l 100
7) Trichlorofluoromethane	2.99	101	118296	20.090	ug/l 100
8) Diethyl Ether	3.37	74	37084	19.453	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.72	101	59574	19.639	ug/l 100
10) 1,1-Dichloroethene	3.70	96	56320	19.639	ug/l 100
11) Methyl Iodide	3.91	142	77992	20.948	ug/l 100
12) Methyl Acetate	4.28	43	57576	16.913	ug/l 100
13) Acrolein	3.57	56	27321	79.073	ug/l # 1
14) Acrylonitrile	4.93	53	114776	81.717	ug/l 100
15) Acetone	3.77	58	29720	74.941	ug/l 100
16) Carbon Disulfide	4.01	76	161064	19.054	ug/l 100
17) Allyl chloride	4.28	41	103584	19.701	ug/l 100
18) Methylene Chloride	4.51	84	61641	18.327	ug/l 100
19) trans-1,2-Dichloroethene	4.99	96	60317	18.654	ug/l 100
20) Diisopropyl ether	5.90	45	191990	18.176	ug/l 100
21) 1,1-Dichloroethane	5.80	63	117420	18.435	ug/l 100
22) cis-1,2-Dichloroethene	6.78	96	70931	19.218	ug/l 100
23) tert-Butyl Alcohol	4.72	59	50856	84.406	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	185619	19.377	ug/l 100
25) Chloroform	7.33	83	120942	18.135	ug/l 100
26) Cyclohexane	7.61	56	91012	19.352	ug/l 100
29) 1,1-Dichloropropene	7.75	75	93315	17.766	ug/l 100
30) 2-Butanone	6.78	43	179120	71.955	ug/l 100
31) 2,2-Dichloropropane	6.77	77	117695	18.609	ug/l 100
32) 1,1,1-Trichloroethane	7.53	97	116450	17.488	ug/l 100
33) Carbon Tetrachloride	7.73	117	106378	18.049	ug/l 100
34) Benzene	8.00	78	250955	16.970	ug/l 100
35) Methacrylonitrile	7.12	41	38779	15.855	ug/l 100
36) 1,2-Dichloroethane	8.08	62	102426	15.941	ug/l 100
37) Trichloroethene	8.80	130	69108	17.564	ug/l 100
38) Methylcyclohexane	9.05	83	85537	18.871	ug/l 100
39) 1,2-Dichloropropane	9.08	63	67600	16.906	ug/l 100
40) Dibromomethane	9.17	93	46202	16.607	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	100684	17.152	ug/l	100
42) Vinyl Acetate	5.84	43	881265	83.235	ug/l	100
43) Ethyl Acetate	6.87	43	79719	14.781	ug/l	100
44) Isopropyl Acetate	8.12	43	155899	17.130	ug/l	100
45) 1,4-Dioxane	9.16	88	16648	292.384	ug/l	100
46) Methyl methacrylate	9.16	41	74473	16.585	ug/l	100
47) n-amyl Acetate	12.04	43	130427	16.084	ug/l	100
48) t-1,3-Dichloropropene	10.35	75	112777	17.661	ug/l	100
49) cis-1,3-Dichloropropene	9.80	75	115622	17.423	ug/l	100
50) 1,1,2-Trichloroethane	10.53	97	63041	16.781	ug/l	100
51) Ethyl methacrylate	10.40	69	97256	17.569	ug/l	100
52) 1,3-Dichloropropane	10.68	76	106817	16.597	ug/l	100
53) Dibromochloromethane	10.87	129	77887	17.841	ug/l	100
54) 1,2-Dibromoethane	10.98	107	66387	16.881	ug/l	100
55) 2-Chloroethyl vinyl ether	9.66	63	251802	84.744	ug/l	100
56) Bromoform	12.10	173	53596	17.525	ug/l	100
58) 4-Methyl-2-Pentanone	9.95	43	404622	80.386	ug/l	100
59) 2-Hexanone	10.72	43	298158	79.241	ug/l	100
61) Tetrachloroethene	10.60	164	65291	19.212	ug/l	100
62) Toluene	10.12	91	276865	18.050	ug/l	100
64) Chlorobenzene	11.40	112	172693	18.445	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.48	131	66822	18.311	ug/l	100
66) Ethyl Benzene	11.48	91	321488	18.832	ug/l	100
67) m/p-Xylenes	11.59	106	234672	37.176	ug/l	100
68) o-Xylene	11.92	106	111426	18.451	ug/l	100
69) Styrene	11.94	104	190174	18.444	ug/l	100
70) Isopropylbenzene	12.22	105	302657	18.812	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	81525	16.512	ug/l	100
72) 1,2,3-Trichloropropane	12.53	75	83364m	16.907	ug/l	100
73) Bromobenzene	12.50	156	74375	18.254	ug/l	100
74) n-propylbenzene	12.56	91	343581	18.355	ug/l	100
75) 2-Chlorotoluene	12.65	91	211566	18.512	ug/l	100
76) 1,3,5-Trimethylbenzene	12.71	105	254936	18.770	ug/l	100
77) t-1,4-Dichloro-2-butene	12.27	75	32894	17.873	ug/l	100
78) 4-Chlorotoluene	12.75	91	218337	18.124	ug/l	100
79) tert-butylbenzene	12.97	119	209657	19.129	ug/l	100
80) 1,2,4-Trimethylbenzene	13.01	105	262175	19.198	ug/l	100
81) sec-Butylbenzene	13.14	105	274822	19.128	ug/l	100
82) p-Isopropyltoluene	13.26	119	253420	19.341	ug/l	100
83) 1,3-Dichlorobenzene	13.26	146	126743	17.645	ug/l	100
84) 1,4-Dichlorobenzene	13.34	146	129988	18.082	ug/l	100
85) n-Butylbenzene	13.59	91	219925	19.207	ug/l	100
86) Hexachloroethane	13.85	117	43535	19.292	ug/l	100
87) 1,2-Dichlorobenzene	13.63	146	122053	17.440	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.24	75	19871	16.774	ug/l	100
89) 1,2,4-Trichlorobenzene	14.88	180	76806	20.562	ug/l	100
90) Hexachlorobutadiene	14.98	225	38383	19.861	ug/l	100
91) Naphthalene	15.10	128	223643	19.887	ug/l	100
92) 1,2,3-Trichlorobenzene	15.28	180	71623	19.957	ug/l	100

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

