

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110220\
 Data File : VN064417.D
 Acq On : 2 Nov 2020 16:15
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN110220

Manual Integrations
 APPROVED

MMDadoda
 11/3/2020 2:20:52 PM

Quant Time: Nov 03 03:14:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110220W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 03 02:03:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	62167	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	342745	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	305212	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.98	65	152462	30.04	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.13%
60) 4-Bromofluorobenzene	12.37	95	157037	30.44	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.47%
63) Toluene-d8	10.06	98	413361	30.37	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	75365	18.849 ug/l	97
3) Chloromethane	2.04	50	78158	18.923 ug/l	97
4) Vinyl Chloride	2.16	62	77097	18.091 ug/l	96
5) Bromomethane	2.53	94	53675	19.298 ug/l	93
6) Chloroethane	2.68	64	44166	17.760 ug/l	89
7) Trichlorofluoromethane	2.99	101	131652	18.648 ug/l	98
8) Diethyl Ether	3.38	74	40866	18.868 ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.72	101	66825	19.019 ug/l	79
10) 1,1-Dichloroethene	3.70	96	62052	18.451 ug/l	94
11) Methyl Iodide	3.91	142	74906	16.593 ug/l	98
12) Methyl Acetate	4.28	43	65365	18.573 ug/l	93
13) Acrolein	3.57	56	30254	89.060 ug/l	93
14) Acrylonitrile	4.92	53	143234	90.458 ug/l	92
15) Acetone	3.77	58	43539	79.357 ug/l	92
16) Carbon Disulfide	4.01	76	175448	18.382 ug/l	97
17) Allyl chloride	4.28	41	103318	17.515 ug/l	96
18) Methylene Chloride	4.51	84	71757	18.440 ug/l	97
19) trans-1,2-Dichloroethene	4.99	96	68426	18.485 ug/l	85
20) Diisopropyl ether	5.90	45	230192	18.236 ug/l	94
21) 1,1-Dichloroethane	5.80	63	129909	18.247 ug/l	99
22) cis-1,2-Dichloroethene	6.79	96	79757	18.183 ug/l	97
23) tert-Butyl Alcohol	4.73	59	57302	95.296 ug/l	# 100
24) Methyl tert-Butyl Ether	4.99	73	218078	18.120 ug/l	# 65
25) Chloroform	7.33	83	136369	17.883 ug/l	93
26) Cyclohexane	7.61	56	103165	18.296 ug/l	# 97
29) 1,1-Dichloropropene	7.75	75	99640	18.070 ug/l	87
30) 2-Butanone	6.79	43	220491	88.075 ug/l	99
31) 2,2-Dichloropropane	6.77	77	122994	18.170 ug/l	98
32) 1,1,1-Trichloroethane	7.52	97	132648	18.351 ug/l	# 87
33) Carbon Tetrachloride	7.73	117	119741	18.388 ug/l	96
34) Benzene	8.00	78	284002	18.177 ug/l	99
35) Methacrylonitrile	7.13	41	47498m	19.192 ug/l	
36) 1,2-Dichloroethane	8.08	62	118389	18.323 ug/l	100
37) Trichloroethene	8.80	130	80750	18.410 ug/l	99
38) Methylcyclohexane	9.05	83	90311	18.056 ug/l	94
39) 1,2-Dichloropropane	9.08	63	75177	18.754 ug/l	97
40) Dibromomethane	9.17	93	51500	17.727 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	111430	18.159	ug/l	99
42) Vinyl Acetate	5.84	43	976503	92.140	ug/l	100
43) Ethyl Acetate	6.88	43	93282	19.242	ug/l #	84
44) Isopropyl Acetate	8.12	43	163162	18.921	ug/l #	82
45) 1,4-Dioxane	9.16	88	24358	402.533	ug/l	89
46) Methyl methacrylate	9.16	41	78021	18.327	ug/l	98
47) n-amyl Acetate	12.04	43	133347	18.181	ug/l	100
48) t-1,3-Dichloropropene	10.35	75	119800	17.690	ug/l	100
49) cis-1,3-Dichloropropene	9.81	75	125434	17.900	ug/l	93
50) 1,1,2-Trichloroethane	10.53	97	69793	17.892	ug/l	93
51) Ethyl methacrylate	10.40	69	101344	18.086	ug/l	95
52) 1,3-Dichloropropane	10.68	76	120415	18.306	ug/l	100
53) Dibromochloromethane	10.87	129	86081	17.966	ug/l	100
54) 1,2-Dibromoethane	10.97	107	71884	17.216	ug/l	97
55) 2-Chloroethyl vinyl ether	9.66	63	270586	89.845	ug/l	99
56) Bromoform	12.10	173	59077	17.481	ug/l #	98
58) 4-Methyl-2-Pentanone	9.95	43	453655	93.905	ug/l	100
59) 2-Hexanone	10.72	43	329098	91.527	ug/l	99
61) Tetrachloroethene	10.60	164	78827	19.052	ug/l	96
62) Toluene	10.12	91	327597	19.162	ug/l	97
64) Chlorobenzene	11.41	112	199811	18.670	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.48	131	80007	19.241	ug/l	99
66) Ethyl Benzene	11.48	91	347867	18.440	ug/l	99
67) m/p-Xylenes	11.59	106	263122	37.083	ug/l	100
68) o-Xylene	11.92	106	128173	18.745	ug/l	99
69) Styrene	11.94	104	206705	18.130	ug/l	98
70) Isopropylbenzene	12.22	105	324603	18.350	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.48	83	91884	18.679	ug/l	100
72) 1,2,3-Trichloropropane	12.53	75	88739m	17.277	ug/l	
73) Bromobenzene	12.50	156	86212	18.783	ug/l	98
74) n-propylbenzene	12.56	91	364163	18.774	ug/l	99
75) 2-Chlorotoluene	12.65	91	234741	19.104	ug/l	99
76) 1,3,5-Trimethylbenzene	12.70	105	275906	18.934	ug/l	100
77) t-1,4-Dichloro-2-butene	12.27	75	33627	18.572	ug/l	92
78) 4-Chlorotoluene	12.75	91	240161	18.918	ug/l	97
79) tert-butylbenzene	12.97	119	217542	18.665	ug/l	99
80) 1,2,4-Trimethylbenzene	13.01	105	269945	18.284	ug/l	98
81) sec-Butylbenzene	13.14	105	277385	18.868	ug/l	98
82) p-Isopropyltoluene	13.26	119	253574	18.771	ug/l	99
83) 1,3-Dichlorobenzene	13.26	146	144965	18.591	ug/l	99
84) 1,4-Dichlorobenzene	13.33	146	139586	17.772	ug/l	98
85) n-Butylbenzene	13.59	91	206751	19.175	ug/l	99
86) Hexachloroethane	13.85	117	46528	18.367	ug/l	96
87) 1,2-Dichlorobenzene	13.63	146	136771	18.167	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.24	75	20277	19.135	ug/l	94
89) 1,2,4-Trichlorobenzene	14.88	180	67113	18.230	ug/l	95
90) Hexachlorobutadiene	14.98	225	38925	19.867	ug/l	97
91) Naphthalene	15.10	128	191820	17.540	ug/l	99
92) 1,2,3-Trichlorobenzene	15.28	180	66716	18.327	ug/l	97

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

