

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
 Data File : VN057473.D
 Acq On : 23 Aug 2019 14:40
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 1:12:28 PM

Quant Time: Aug 24 00:03:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 23:15:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.17	128	66861	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	377977	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	320125	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	193432	30.01	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.03%
60) 4-Bromofluorobenzene	12.40	95	152374	28.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.20%
63) Toluene-d8	10.08	98	490837	30.36	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	73913	21.131 ug/l	99
3) Chloromethane	2.05	50	112317	21.383 ug/l	98
4) Vinyl Chloride	2.17	62	140429	21.045 ug/l	98
5) Bromomethane	2.54	94	91685	21.239 ug/l	98
6) Chloroethane	2.69	64	92499	20.695 ug/l	99
7) Trichlorofluoromethane	3.00	101	223780	21.085 ug/l	92
8) Diethyl Ether	3.39	74	84267	20.667 ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.72	101	123793	20.709 ug/l	97
10) 1,1-Dichloroethene	3.71	96	120364	20.856 ug/l	94
11) Methyl Iodide	3.92	142	90374	17.421 ug/l	97
12) Methyl Acetate	4.30	43	116463	20.033 ug/l	98
13) Acrolein	3.58	56	70835	95.805 ug/l	97
14) Acrylonitrile	4.97	53	213236	105.581 ug/l #	81
15) Acetone	3.80	58	84380	89.310 ug/l	93
16) Carbon Disulfide	4.02	76	206450	20.084 ug/l	100
17) Allyl chloride	4.29	41	161839	20.556 ug/l	94
18) Methylene Chloride	4.52	84	88452m	20.899 ug/l	
19) trans-1,2-Dichloroethene	5.00	96	78082	19.591 ug/l	94
20) Diisopropyl ether	5.93	45	349536	20.795 ug/l	95
21) 1,1-Dichloroethane	5.82	63	180271	20.640 ug/l	97
22) cis-1,2-Dichloroethene	6.81	96	96741	19.957 ug/l	96
23) tert-Butyl Alcohol	4.78	59	74898m	102.091 ug/l	
24) Methyl tert-Butyl Ether	5.02	73	275664	20.675 ug/l	99
25) Chloroform	7.36	83	176329	20.334 ug/l	98
26) Cyclohexane	7.63	56	152677	19.631 ug/l #	98
29) 1,1-Dichloropropene	7.77	75	130637	20.336 ug/l	98
30) 2-Butanone	6.82	43	311400	100.826 ug/l	99
31) 2,2-Dichloropropane	6.80	77	143002	19.484 ug/l	99
32) 1,1,1-Trichloroethane	7.55	97	152210	20.727 ug/l	99
33) Carbon Tetrachloride	7.76	117	122796	20.137 ug/l	100
34) Benzene	8.03	78	381792	20.211 ug/l	100
35) Methacrylonitrile	7.16	41	66597	21.306 ug/l	90
36) 1,2-Dichloroethane	8.11	62	156815	21.177 ug/l #	89
37) Trichloroethene	8.82	130	86574	20.088 ug/l	99
38) Methylcyclohexane	9.07	83	141209	19.585 ug/l	99
39) 1,2-Dichloropropane	9.11	63	109964	20.473 ug/l	97
40) Dibromomethane	9.20	93	66682	20.313 ug/l	97

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

41) Bromodichloromethane	9.40	83	137053	19.685	ug/l	96
42) Vinyl Acetate	5.88	43	1403748	101.565	ug/l	100
43) Ethyl Acetate	6.92	43	136152	22.648	ug/l	95
44) Isopropyl Acetate	8.16	43	234084	20.398	ug/l #	92
45) 1,4-Dioxane	9.20	88	29288	424.588	ug/l	97
46) Methyl methacrylate	9.19	41	108361	19.883	ug/l	98
47) n-amyl Acetate	12.07	43	182032	19.708	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	140357	19.083	ug/l	96
49) cis-1,3-Dichloropropene	9.83	75	156167	19.319	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	87515	20.331	ug/l	98
51) Ethyl methacrylate	10.43	69	146821	20.519	ug/l	98
52) 1,3-Dichloropropane	10.70	76	159041	20.266	ug/l	100
53) Dibromochloromethane	10.90	129	90655	19.756	ug/l	99
54) 1,2-Dibromoethane	11.00	107	87796	19.934	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	311943	176.856	ug/l	99
56) Bromoform	12.13	173	52750	19.261	ug/l #	97
58) 4-Methyl-2-Pentanone	9.98	43	672937	107.154	ug/l	99
59) 2-Hexanone	10.75	43	461050	105.917	ug/l	98
61) Tetrachloroethene	10.63	164	77694	21.163	ug/l	91
62) Toluene	10.15	91	402124	20.553	ug/l	99
64) Chlorobenzene	11.43	112	217294	20.429	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	84443	20.890	ug/l	97
66) Ethyl Benzene	11.51	91	420873	20.100	ug/l	100
67) m/p-Xylenes	11.62	106	293292	40.383	ug/l	97
68) o-Xylene	11.95	106	147797	20.592	ug/l	99
69) Styrene	11.96	104	228906	19.965	ug/l	98
70) Isopropylbenzene	12.25	105	388403	20.229	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	115815	20.858	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	108705m	21.567	ug/l	
73) Bromobenzene	12.53	156	78999	20.327	ug/l	99
74) n-propylbenzene	12.59	91	418587	19.119	ug/l	100
75) 2-Chlorotoluene	12.67	91	254698	19.753	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	315030	19.992	ug/l	97
77) t-1,4-Dichloro-2-butene	12.30	75	35405	19.588	ug/l	96
78) 4-Chlorotoluene	12.77	91	230730	18.938	ug/l	100
79) tert-butylbenzene	12.99	119	263258	19.634	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	291572	19.848	ug/l	98
81) sec-Butylbenzene	13.17	105	343323	19.431	ug/l	99
82) p-Isopropyltoluene	13.29	119	281936	18.980	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	117579	19.435	ug/l	97
84) 1,4-Dichlorobenzene	13.37	146	108965	18.514	ug/l	99
85) n-Butylbenzene	13.62	91	242206	18.703	ug/l	97
86) Hexachloroethane	13.88	117	59256	19.770	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	117447	19.767	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	18826	20.204	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	33432	15.017	ug/l	97
90) Hexachlorobutadiene	15.01	225	35369	20.664	ug/l	96
91) Naphthalene	15.13	128	109128	19.909	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	37084	16.657	ug/l	98

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

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