

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110818\
 Data File : VN052222.D
 Acq On : 8 Nov 2018 16:09
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 11/9/2018 1:12:48 PM

Quant Time: Nov 08 16:29:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:39:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	60049	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	361755	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	320488	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	132005	29.62	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.73%
60) 4-Bromofluorobenzene	12.40	95	150720	29.40	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.00%
63) Toluene-d8	10.09	98	450568	29.90	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	79800	19.897 ug/l	93
3) Chloromethane	2.06	50	89644	19.557 ug/l	99
4) Vinyl Chloride	2.19	62	84598	18.814 ug/l	100
5) Bromomethane	2.58	94	56985	18.567 ug/l	94
6) Chloroethane	2.71	64	52098	18.120 ug/l	97
7) Trichlorofluoromethane	3.02	101	123235	20.239 ug/l	96
8) Diethyl Ether	3.42	74	36901	17.948 ug/l	90
9) 1,1,2-Trichlorotrifluoroet	3.76	101	70459	19.798 ug/l	94
10) 1,1-Dichloroethene	3.74	96	65394	19.692 ug/l	95
11) Methyl Iodide	3.96	142	92602	19.287 ug/l	97
12) Methyl Acetate	4.33	43	54750	19.588 ug/l	96
13) Acrolein	3.61	56	21975	74.122 ug/l	98
14) Acrylonitrile	4.99	53	112349	90.638 ug/l	98
15) Acetone	3.82	58	28815	98.359 ug/l	98
16) Carbon Disulfide	4.06	76	177596	18.113 ug/l	100
17) Allyl chloride	4.33	41	104382	18.513 ug/l	94
18) Methylene Chloride	4.56	84	75664	18.460 ug/l	94
19) trans-1,2-Dichloroethene	5.05	96	71333	19.605 ug/l	92
20) Diisopropyl ether	5.95	45	242207	19.769 ug/l	99
21) 1,1-Dichloroethane	5.85	63	141491	19.761 ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	81461	19.173 ug/l	98
23) tert-Butyl Alcohol	4.78	59	17529m	90.764 ug/l	
24) Methyl tert-Butyl Ether	5.04	73	173204	18.398 ug/l	94
25) Chloroform	7.37	83	138644	19.284 ug/l	99
26) Cyclohexane	7.65	56	126299	19.677 ug/l #	96
29) 1,1-Dichloropropene	7.80	75	103342	17.993 ug/l	96
30) 2-Butanone	6.84	43	141202	92.318 ug/l #	79
31) 2,2-Dichloropropane	6.83	77	107342	18.143 ug/l #	75
32) 1,1,1-Trichloroethane	7.57	97	116824	18.179 ug/l	98
33) Carbon Tetrachloride	7.78	117	106247	18.591 ug/l	99
34) Benzene	8.04	78	319797	19.016 ug/l	97
35) Methacrylonitrile	7.20	41	50468m	24.056 ug/l	
36) 1,2-Dichloroethane	8.12	62	98752	17.563 ug/l	100
37) Trichloroethene	8.83	130	79169	18.809 ug/l	94
38) Methylcyclohexane	9.08	83	130829	18.673 ug/l	98
39) 1,2-Dichloropropane	9.12	63	83117	18.567 ug/l	92
40) Dibromomethane	9.21	93	49225	17.840 ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	103836	18.392	ug/l	99
42) Vinyl Acetate	5.90	43	796237	88.924	ug/l	100
43) Ethyl Acetate	7.21	43	17863	2.324	ug/l	97
44) Isopropyl Acetate	8.16	43	108790	17.094	ug/l	99
45) 1,4-Dioxane	9.20	88	9707	334.351	ug/l #	57
46) Methyl methacrylate	9.20	41	54945	17.344	ug/l	96
47) n-amyl Acetate	12.07	43	95076	16.481	ug/l #	100
48) t-1,3-Dichloropropene	10.38	75	98563	17.581	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	117569	18.170	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	65787	18.030	ug/l	94
51) Ethyl methacrylate	10.43	69	81748	17.335	ug/l	95
52) 1,3-Dichloropropane	10.71	76	115656	18.197	ug/l	99
53) Dibromochloromethane	10.90	129	72753	18.469	ug/l	95
54) 1,2-Dibromoethane	11.00	107	65992	17.836	ug/l	96
55) 2-Chloroethyl vinyl ether	9.69	63	238509	92.364	ug/l	98
56) Bromoform	12.12	173	40758	17.915	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	309985	90.264	ug/l	99
59) 2-Hexanone	10.75	43	207416	87.719	ug/l	99
61) Tetrachloroethene	10.63	164	69842	20.038	ug/l	95
62) Toluene	10.15	91	342977	19.064	ug/l	100
64) Chlorobenzene	11.43	112	216628	18.999	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	75558	19.470	ug/l	99
66) Ethyl Benzene	11.51	91	370050	19.042	ug/l	97
67) m/p-Xylenes	11.62	106	281714	37.653	ug/l	99
68) o-Xylene	11.95	106	135217	18.956	ug/l	95
69) Styrene	11.96	104	217204	18.896	ug/l	97
70) Isopropylbenzene	12.25	105	367509	19.192	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	78865	18.725	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	56456m	15.245	ug/l	
73) Bromobenzene	12.53	156	84982	20.029	ug/l	85
74) n-propylbenzene	12.59	91	420577	18.861	ug/l	97
75) 2-Chlorotoluene	12.67	91	240217	18.685	ug/l	96
76) 1,3,5-Trimethylbenzene	12.73	105	288673	18.800	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	17830	15.388	ug/l	91
78) 4-Chlorotoluene	12.77	91	236510	18.269	ug/l	98
79) tert-butylbenzene	12.99	119	259105	19.372	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	292172	19.100	ug/l	98
81) sec-Butylbenzene	13.17	105	354861	19.278	ug/l	99
82) p-Isopropyltoluene	13.29	119	296755	19.077	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	146985	19.585	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	141626	19.062	ug/l	96
85) n-Butylbenzene	13.61	91	254203	18.881	ug/l	98
86) Hexachloroethane	13.87	117	48986	18.661	ug/l	93
87) 1,2-Dichlorobenzene	13.65	146	141767	19.881	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	9347	16.229	ug/l #	73
89) 1,2,4-Trichlorobenzene	14.91	180	53232	18.390	ug/l	95
90) Hexachlorobutadiene	15.01	225	33137	20.925	ug/l	96
91) Naphthalene	15.13	128	121642	18.232	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	50050	19.840	ug/l	96

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

