

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056678.D
 Acq On : 12 Jul 2019 10:08
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/16/2019 9:57:38 AM

Quant Time: Jul 12 23:49:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:38:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	55431	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	303198	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	257531	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	114625	30.18	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.60%
60) 4-Bromofluorobenzene	12.40	95	106494	26.80	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.33%
63) Toluene-d8	10.09	98	370393	31.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	12633	4.383 ug/l	96
3) Chloromethane	2.06	50	18797	4.569 ug/l	99
4) Vinyl Chloride	2.18	62	18678	4.772 ug/l	97
5) Bromomethane	2.57	94	13002	6.121 ug/l	93
6) Chloroethane	2.70	64	11543	5.310 ug/l	96
7) Trichlorofluoromethane	3.01	101	24601	4.907 ug/l	94
8) Diethyl Ether	3.41	74	10078	4.802 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	16114	5.086 ug/l	63
10) 1,1-Dichloroethene	3.73	96	15361	4.975 ug/l	97
11) Methyl Iodide	3.95	142	16687	3.802 ug/l	98
12) Methyl Acetate	4.33	43	24537	5.929 ug/l	95
13) Acrolein	3.61	56	9322	24.706 ug/l	96
14) Acrylonitrile	4.99	53	44092	24.198 ug/l #	89
15) Acetone	3.82	58	14512	26.047 ug/l	96
16) Carbon Disulfide	4.05	76	36709	4.825 ug/l	98
17) Allyl chloride	4.32	41	25644	4.736 ug/l	96
18) Methylene Chloride	4.55	84	18409	5.036 ug/l	97
19) trans-1,2-Dichloroethene	5.04	96	16547	4.936 ug/l	91
20) Diisopropyl ether	5.95	45	53742	4.843 ug/l	98
21) 1,1-Dichloroethane	5.85	63	30624	4.883 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	19695	5.003 ug/l	97
23) tert-Butyl Alcohol	4.79	59	15101	22.102 ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	48792	4.802 ug/l #	84
25) Chloroform	7.37	83	31113	5.051 ug/l	97
26) Cyclohexane	7.65	56	27339	4.697 ug/l #	100
29) 1,1-Dichloropropene	7.79	75	22259	4.832 ug/l	99
30) 2-Butanone	6.84	43	62669	24.168 ug/l	99
31) 2,2-Dichloropropane	6.82	77	21604m	4.875 ug/l	
32) 1,1,1-Trichloroethane	7.57	97	24341	4.973 ug/l	99
33) Carbon Tetrachloride	7.77	117	19852	4.751 ug/l	93
34) Benzene	8.04	78	71560	4.989 ug/l #	71
35) Methacrylonitrile	7.18	41	11283m	5.283 ug/l	
36) 1,2-Dichloroethane	8.12	62	23874	5.132 ug/l	100
37) Trichloroethene	8.83	130	18956	5.016 ug/l	98
38) Methylcyclohexane	9.08	83	27671	4.782 ug/l	98
39) 1,2-Dichloropropane	9.12	63	19459	5.054 ug/l	100
40) Dibromomethane	9.21	93	11952	4.996 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	21556	4.845	ug/l	93
42) Vinyl Acetate	5.90	43	199311	22.042	ug/l	99
43) Ethyl Acetate	6.93	43	21952	4.479	ug/l	96
44) Isopropyl Acetate	8.16	43	34958	4.586	ug/l	90
45) 1,4-Dioxane	9.20	88	5579	73.687	ug/l #	89
46) Methyl methacrylate	9.20	41	17357	4.627	ug/l	96
47) n-amyl Acetate	12.07	43	24055	3.809	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	20833	4.360	ug/l	95
49) cis-1,3-Dichloropropene	9.84	75	24471	4.455	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	17857	5.086	ug/l	98
51) Ethyl methacrylate	10.43	69	24405	4.443	ug/l	97
52) 1,3-Dichloropropane	10.71	76	29304	4.891	ug/l	95
53) Dibromochloromethane	10.90	129	15962	4.605	ug/l	99
54) 1,2-Dibromoethane	11.00	107	17869	4.876	ug/l	96
55) 2-Chloroethyl vinyl ether	9.69	63	57165	20.607	ug/l	99
56) Bromoform	12.12	173	10994	4.332	ug/l #	98
58) 4-Methyl-2-Pentanone	9.98	43	120002	25.524	ug/l	99
59) 2-Hexanone	10.75	43	83485	23.607	ug/l	98
61) Tetrachloroethene	10.63	164	18681	5.556	ug/l	95
62) Toluene	10.15	91	77221	5.271	ug/l	96
64) Chlorobenzene	11.43	112	44871	5.077	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	16139	5.033	ug/l	98
66) Ethyl Benzene	11.51	91	77213	4.855	ug/l	99
67) m/p-Xylenes	11.62	106	55992	9.484	ug/l	99
68) o-Xylene	11.95	106	27988	4.831	ug/l	99
69) Styrene	11.96	104	42160	4.378	ug/l	99
70) Isopropylbenzene	12.25	105	75680	4.988	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	25512	5.114	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	22811m	5.450	ug/l	
73) Bromobenzene	12.52	156	18436	4.706	ug/l	100
74) n-propylbenzene	12.59	91	76672	4.432	ug/l	99
75) 2-Chlorotoluene	12.67	91	49145	4.765	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	61037	4.722	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	4820	3.541	ug/l	87
78) 4-Chlorotoluene	12.77	91	42947	4.290	ug/l	99
79) tert-butylbenzene	12.99	119	53899	4.897	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	58806	4.605	ug/l	100
81) sec-Butylbenzene	13.17	105	67936	4.649	ug/l	99
82) p-Isopropyltoluene	13.29	119	59768	4.528	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	26860	4.114	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	25008	3.980	ug/l	99
85) n-Butylbenzene	13.61	91	41469	3.754	ug/l	98
86) Hexachloroethane	13.87	117	8947	4.456	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	29676	4.511	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	3981	4.479	ug/l	85
89) 1,2,4-Trichlorobenzene	14.91	180	9862m	2.719	ug/l	
90) Hexachlorobutadiene	15.01	225	11493	5.019	ug/l	98
91) Naphthalene	15.13	128	27496	2.754	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	13392	3.527	ug/l	98

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

