

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041119\
 Data File : VN054981.D
 Acq On : 11 Apr 2019 16:39
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041119

Manual Integrations
 APPROVED

MMDadoda
 4/12/2019 1:41:30 PM

Quant Time: Apr 12 08:17:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	80259	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	430719	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	377036	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	179301	29.31	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.70%
60) 4-Bromofluorobenzene	12.40	95	172034	29.31	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.70%
63) Toluene-d8	10.09	98	551834	30.78	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	91606	19.407	ug/l 96
3) Chloromethane	2.06	50	128914	20.217	ug/l 98
4) Vinyl Chloride	2.19	62	107449	19.486	ug/l 99
5) Bromomethane	2.56	94	70299	22.040	ug/l 90
6) Chloroethane	2.71	64	59952	19.413	ug/l 98
7) Trichlorofluoromethane	3.02	101	138113	19.601	ug/l 96
8) Diethyl Ether	3.41	74	45319	20.031	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	74783	19.415	ug/l 99
10) 1,1-Dichloroethene	3.73	96	67822	19.045	ug/l 96
11) Methyl Iodide	3.94	142	91698	17.015	ug/l 99
12) Methyl Acetate	4.34	43	92501	21.118	ug/l 97
13) Acrolein	3.61	56	38738	100.908	ug/l 97
14) Acrylonitrile	4.99	53	179087	99.793	ug/l 99
15) Acetone	3.82	58	41081	92.509	ug/l 98
16) Carbon Disulfide	4.04	76	236604	19.808	ug/l 99
17) Allyl chloride	4.32	41	174519	19.900	ug/l 99
18) Methylene Chloride	4.54	84	99917	18.981	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	92690	19.994	ug/l 98
20) Diisopropyl ether	5.96	45	349666	19.681	ug/l 98
21) 1,1-Dichloroethane	5.84	63	185743	19.574	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	104631	19.418	ug/l 100
23) tert-Butyl Alcohol	4.82	59	30908	108.014	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	241209	20.172	ug/l # 67
25) Chloroform	7.37	83	178992	19.692	ug/l 96
26) Cyclohexane	7.65	56	169577	19.260	ug/l # 100
29) 1,1-Dichloropropene	7.79	75	135286	20.168	ug/l 98
30) 2-Butanone	6.85	43	223079	100.186	ug/l 99
31) 2,2-Dichloropropane	6.82	77	125945	20.400	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	143066	20.178	ug/l 98
33) Carbon Tetrachloride	7.77	117	120126	19.569	ug/l 96
34) Benzene	8.04	78	397213	19.982	ug/l 99
35) Methacrylonitrile	7.18	41	61681	23.503	ug/l 95
36) 1,2-Dichloroethane	8.12	62	133871	19.705	ug/l 99
37) Trichloroethene	8.83	130	100941	19.919	ug/l 93
38) Methylcyclohexane	9.08	83	152889	19.654	ug/l 100
39) 1,2-Dichloropropane	9.12	63	108812	19.824	ug/l 100
40) Dibromomethane	9.21	93	62467	20.134	ug/l 98

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

41) Bromodichloromethane	9.40	83	123997	19.365	ug/l	99
42) Vinyl Acetate	5.90	43	1142590	101.501	ug/l	100
43) Ethyl Acetate	6.94	43	86945	19.167	ug/l #	86
44) Isopropyl Acetate	8.17	43	155157	20.183	ug/l	96
45) 1,4-Dioxane	9.20	88	17954	421.564	ug/l	95
46) Methyl methacrylate	9.20	41	79467	19.983	ug/l	94
47) n-amyl Acetate	12.07	43	120469	21.276	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	113304	19.270	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	142139	19.582	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	83107	19.722	ug/l	98
51) Ethyl methacrylate	10.43	69	100423	19.992	ug/l	97
52) 1,3-Dichloropropane	10.71	76	149415	20.235	ug/l	99
53) Dibromochloromethane	10.90	129	83507	19.239	ug/l	96
54) 1,2-Dibromoethane	11.00	107	79856	20.186	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	189739	90.352	ug/l	100
56) Bromoform	12.13	173	51642	18.934	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	447826	102.995	ug/l	100
59) 2-Hexanone	10.75	43	290636	105.219	ug/l	99
61) Tetrachloroethene	10.63	164	96183	19.602	ug/l	95
62) Toluene	10.16	91	414397	19.947	ug/l	97
64) Chlorobenzene	11.43	112	252270	20.114	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	87404	19.595	ug/l	97
66) Ethyl Benzene	11.51	91	443166	19.900	ug/l	98
67) m/p-Xylenes	11.62	106	325043	39.267	ug/l	100
68) o-Xylene	11.95	106	162575	19.874	ug/l	99
69) Styrene	11.96	104	245287	19.310	ug/l	99
70) Isopropylbenzene	12.25	105	434261	19.855	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	102781	20.546	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	91052m	22.040	ug/l	
73) Bromobenzene	12.53	156	103037	19.931	ug/l	97
74) n-propylbenzene	12.59	91	480836	19.638	ug/l	100
75) 2-Chlorotoluene	12.67	91	291475	19.738	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	346259	19.582	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	19700	18.918	ug/l	95
78) 4-Chlorotoluene	12.77	91	275479	19.578	ug/l	100
79) tert-butylbenzene	12.99	119	303400	19.830	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	345559	19.893	ug/l	99
81) sec-Butylbenzene	13.17	105	412833	20.194	ug/l	100
82) p-Isopropyltoluene	13.29	119	341802	19.811	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	172048	19.893	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	161077	19.600	ug/l	99
85) n-Butylbenzene	13.62	91	267285	19.448	ug/l	100
86) Hexachloroethane	13.87	117	50983	18.459	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	169393	20.000	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	13642	20.519	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	78529	20.739	ug/l	97
90) Hexachlorobutadiene	15.01	225	62951	22.802	ug/l	99
91) Naphthalene	15.13	128	179234	22.605	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	81416	21.499	ug/l	99

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

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