

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041219\
 Data File : VN054996.D
 Acq On : 12 Apr 2019 13:28
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 9:37:03 AM

Quant Time: Apr 12 23:30:55 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	72062	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	385865	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	332505	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	165288	30.09	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.30%
60) 4-Bromofluorobenzene	12.40	95	153648	29.68	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.93%
63) Toluene-d8	10.09	98	478219	30.25	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	79600	18.781 ug/l	99
3) Chloromethane	2.06	50	110940	19.377 ug/l	100
4) Vinyl Chloride	2.19	62	93382	18.861 ug/l	96
5) Bromomethane	2.56	94	57223	19.982 ug/l	92
6) Chloroethane	2.71	64	51904	18.719 ug/l	96
7) Trichlorofluoromethane	3.02	101	124836	19.732 ug/l	97
8) Diethyl Ether	3.41	74	39784	19.585 ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	67198	19.430 ug/l	96
10) 1,1-Dichloroethene	3.73	96	60041	18.778 ug/l	98
11) Methyl Iodide	3.94	142	90198	18.641 ug/l	99
12) Methyl Acetate	4.33	43	90895	23.111 ug/l	97
13) Acrolein	3.61	56	32181	93.363 ug/l	97
14) Acrylonitrile	5.00	53	167424	103.906 ug/l	99
15) Acetone	3.82	58	34936	87.620 ug/l	100
16) Carbon Disulfide	4.04	76	195686	18.245 ug/l	99
17) Allyl chloride	4.32	41	153706	19.520 ug/l	97
18) Methylene Chloride	4.55	84	93523	19.787 ug/l	99
19) trans-1,2-Dichloroethene	5.04	96	81589	19.602 ug/l	97
20) Diisopropyl ether	5.96	45	314204	19.697 ug/l	98
21) 1,1-Dichloroethane	5.85	63	168357	19.760 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	93555	19.337 ug/l	99
23) tert-Butyl Alcohol	4.82	59	29505	114.840 ug/l	# 100
24) Methyl tert-Butyl Ether	5.06	73	220631	20.550 ug/l	# 63
25) Chloroform	7.37	83	161084	19.738 ug/l	98
26) Cyclohexane	7.65	56	147444	18.651 ug/l	# 99
29) 1,1-Dichloropropene	7.79	75	120271	20.014 ug/l	98
30) 2-Butanone	6.85	43	202173	101.351 ug/l	100
31) 2,2-Dichloropropane	6.82	77	105832	19.134 ug/l	# 100
32) 1,1,1-Trichloroethane	7.57	97	127585	20.086 ug/l	98
33) Carbon Tetrachloride	7.77	117	106044	19.283 ug/l	98
34) Benzene	8.04	78	355489	19.962 ug/l	98
35) Methacrylonitrile	7.18	41	46820	19.914 ug/l	93
36) 1,2-Dichloroethane	8.12	62	127104	20.883 ug/l	100
37) Trichloroethene	8.83	130	89154	19.638 ug/l	95
38) Methylcyclohexane	9.08	83	133244	19.120 ug/l	98
39) 1,2-Dichloropropane	9.12	63	103290	21.005 ug/l	100
40) Dibromomethane	9.21	93	55972	20.138 ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	114825	20.017	ug/l	96
42) Vinyl Acetate	5.90	43	1037202	102.850	ug/l	100
43) Ethyl Acetate	6.94	43	83763	20.612	ug/l	99
44) Isopropyl Acetate	8.17	43	146996	21.344	ug/l	95
45) 1,4-Dioxane	9.20	88	17239	451.828	ug/l	94
46) Methyl methacrylate	9.20	41	73803	20.716	ug/l	99
47) n-amyl Acetate	12.07	43	104387	20.579	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	98949	18.784	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	125255	19.261	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	77146	20.436	ug/l	99
51) Ethyl methacrylate	10.43	69	89212	19.825	ug/l	95
52) 1,3-Dichloropropane	10.71	76	137738	20.822	ug/l	99
53) Dibromochloromethane	10.90	129	75319	19.369	ug/l	98
54) 1,2-Dibromoethane	11.01	107	70676	19.942	ug/l	96
55) 2-Chloroethyl vinyl ether	9.70	63	195787	104.070	ug/l	99
56) Bromoform	12.13	173	45490	18.618	ug/l #	97
58) 4-Methyl-2-Pentanone	9.99	43	423744	110.509	ug/l	100
59) 2-Hexanone	10.75	43	259375	106.478	ug/l	99
61) Tetrachloroethene	10.63	164	85519	19.763	ug/l	96
62) Toluene	10.16	91	373361	20.379	ug/l	99
64) Chlorobenzene	11.43	112	225300	20.370	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	78735	20.015	ug/l	96
66) Ethyl Benzene	11.51	91	394497	20.087	ug/l	99
67) m/p-Xylenes	11.62	106	297814	40.796	ug/l	99
68) o-Xylene	11.95	106	149434	20.714	ug/l	97
69) Styrene	11.96	104	222381	19.851	ug/l	99
70) Isopropylbenzene	12.25	105	392525	20.350	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	96601	21.897	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	78228m	21.472	ug/l	
73) Bromobenzene	12.53	156	91531	20.077	ug/l	98
74) n-propylbenzene	12.59	91	425547	19.707	ug/l	99
75) 2-Chlorotoluene	12.67	91	266009	20.425	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	318315	20.413	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	18123	19.734	ug/l	94
78) 4-Chlorotoluene	12.77	91	246193	19.840	ug/l	100
79) tert-butylbenzene	12.99	119	282923	20.968	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	309839	20.226	ug/l	99
81) sec-Butylbenzene	13.17	105	364562	20.221	ug/l	100
82) p-Isopropyltoluene	13.29	119	296826	19.508	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	151606	19.877	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	141194	19.481	ug/l	99
85) n-Butylbenzene	13.61	91	218899	18.060	ug/l	98
86) Hexachloroethane	13.87	117	46187	18.962	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	157610	21.101	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	12683	21.631	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	58591	17.546	ug/l	97
90) Hexachlorobutadiene	15.01	225	48574	19.951	ug/l	97
91) Naphthalene	15.13	128	127484	18.232	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	62530	18.723	ug/l	99

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

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