

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041119\
 Data File : VN054989.D
 Acq On : 11 Apr 2019 20:42
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 4/12/2019 1:42:11 PM

Quant Time: Apr 12 08:46:10 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	7.20	128	75680	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	413066	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	355167	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	174358	30.23	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.77%
60) 4-Bromofluorobenzene	12.40	95	161131	29.14	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.13%
63) Toluene-d8	10.09	98	522683	30.95	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.17%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	83293	18.713	ug/l 97
3) Chloromethane	2.06	50	120643	20.064	ug/l 97
4) Vinyl Chloride	2.19	62	105691	20.327	ug/l 99
5) Bromomethane	2.57	94	61977	20.607	ug/l 92
6) Chloroethane	2.71	64	57503	19.747	ug/l 99
7) Trichlorofluoromethane	3.02	101	131200	19.746	ug/l 94
8) Diethyl Ether	3.41	74	43623	20.448	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	70881	19.516	ug/l 98
10) 1,1-Dichloroethene	3.73	96	65603	19.536	ug/l 97
11) Methyl Iodide	3.94	142	99489	19.578	ug/l 100
12) Methyl Acetate	4.33	43	87657	21.223	ug/l 97
13) Acrolein	3.61	56	34650	95.720	ug/l 95
14) Acrylonitrile	4.99	53	170957	101.027	ug/l 99
15) Acetone	3.82	58	32479	77.564	ug/l 92
16) Carbon Disulfide	4.04	76	212050	18.826	ug/l 97
17) Allyl chloride	4.32	41	164437	19.885	ug/l 99
18) Methylene Chloride	4.55	84	97046	19.551	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	86958	19.893	ug/l 97
20) Diisopropyl ether	5.96	45	336828	20.106	ug/l 98
21) 1,1-Dichloroethane	5.85	63	180942	20.222	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	100350	19.750	ug/l 98
23) tert-Butyl Alcohol	4.82	59	27690	102.623	ug/l # 100
24) Methyl tert-Butyl Ether	5.06	73	236657	20.989	ug/l # 69
25) Chloroform	7.37	83	172630	20.141	ug/l 97
26) Cyclohexane	7.65	56	160514	19.334	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	126966	19.737	ug/l 98
30) 2-Butanone	6.85	43	200407	93.850	ug/l 99
31) 2,2-Dichloropropane	6.82	77	108538	18.331	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	137757	20.260	ug/l 98
33) Carbon Tetrachloride	7.77	117	114933	19.523	ug/l 97
34) Benzene	8.04	78	377524	19.803	ug/l 99
35) Methacrylonitrile	7.18	41	46546	18.494	ug/l 95
36) 1,2-Dichloroethane	8.12	62	133032	20.418	ug/l 100
37) Trichloroethene	8.83	130	96605	19.878	ug/l 92
38) Methylcyclohexane	9.08	83	138285	18.536	ug/l 99
39) 1,2-Dichloropropane	9.12	63	106125	20.161	ug/l 100
40) Dibromomethane	9.21	93	60169	20.223	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	121292	19.752	ug/l	98
42) Vinyl Acetate	5.90	43	1084484	100.457	ug/l	100
43) Ethyl Acetate	6.94	43	86548	19.895	ug/l	99
44) Isopropyl Acetate	8.17	43	149092	20.223	ug/l	99
45) 1,4-Dioxane	9.20	88	15944	390.368	ug/l #	85
46) Methyl methacrylate	9.20	41	73009	19.144	ug/l	96
47) n-amyl Acetate	12.07	43	106553	19.623	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	105103	18.639	ug/l	95
49) cis-1,3-Dichloropropene	9.84	75	135199	19.422	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	83454	20.651	ug/l	96
51) Ethyl methacrylate	10.43	69	94876	19.695	ug/l	99
52) 1,3-Dichloropropane	10.71	76	143766	20.302	ug/l	99
53) Dibromochloromethane	10.90	129	80814	19.414	ug/l	99
54) 1,2-Dibromoethane	11.00	107	75928	20.013	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	188797	93.746	ug/l	99
56) Bromoform	12.13	173	48060	18.374	ug/l #	98
58) 4-Methyl-2-Pentanone	9.99	43	431519	105.356	ug/l	100
59) 2-Hexanone	10.75	43	260704	100.194	ug/l	99
61) Tetrachloroethene	10.63	164	91202	19.732	ug/l	94
62) Toluene	10.16	91	397410	20.308	ug/l	98
64) Chlorobenzene	11.43	112	236249	19.997	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	85179	20.272	ug/l	99
66) Ethyl Benzene	11.51	91	422040	20.118	ug/l	99
67) m/p-Xylenes	11.62	106	313376	40.189	ug/l	98
68) o-Xylene	11.95	106	152913	19.844	ug/l	98
69) Styrene	11.96	104	231489	19.346	ug/l	98
70) Isopropylbenzene	12.25	105	415229	20.154	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	98283	20.857	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	86090m	22.122	ug/l	
73) Bromobenzene	12.53	156	97423	20.006	ug/l	98
74) n-propylbenzene	12.59	91	448552	19.447	ug/l	99
75) 2-Chlorotoluene	12.67	91	275966	19.838	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	325817	19.561	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	17138	17.471	ug/l	96
78) 4-Chlorotoluene	12.77	91	255599	19.284	ug/l	100
79) tert-butylbenzene	12.99	119	284909	19.768	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	322240	19.693	ug/l	99
81) sec-Butylbenzene	13.17	105	374450	19.444	ug/l	99
82) p-Isopropyltoluene	13.29	119	306325	18.848	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	155040	19.031	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	145779	18.830	ug/l	97
85) n-Butylbenzene	13.61	91	220033	16.996	ug/l	100
86) Hexachloroethane	13.87	117	47730	18.345	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	160365	20.100	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	12350	19.719	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	57419	16.097	ug/l	94
90) Hexachlorobutadiene	15.01	225	44747	17.206	ug/l	99
91) Naphthalene	15.13	128	126930	16.994	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	62025	17.387	ug/l	96

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

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