

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071819\
 Data File : VN056804.D
 Acq On : 18 Jul 2019 10:55
 Operator : JC/SP
 Sample : VN0718WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0718WBS01

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 11:31:33 PM

Quant Time: Jul 19 05:44:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:58:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	51811	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	278379	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	243331	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	102451	29.19	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.30%
60) 4-Bromofluorobenzene	12.40	95	107620	28.90	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.33%
63) Toluene-d8	10.09	98	340245	30.60	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	58421	19.844	ug/l 97
3) Chloromethane	2.06	50	76213	19.356	ug/l 99
4) Vinyl Chloride	2.18	62	75515	19.499	ug/l 97
5) Bromomethane	2.56	94	47668	19.528	ug/l 99
6) Chloroethane	2.70	64	43133	19.492	ug/l 99
7) Trichlorofluoromethane	3.01	101	97894	19.708	ug/l 97
8) Diethyl Ether	3.41	74	39694	19.541	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	60580	19.558	ug/l 98
10) 1,1-Dichloroethene	3.74	96	59431	19.449	ug/l 92
11) Methyl Iodide	3.95	142	71294	17.556	ug/l 99
12) Methyl Acetate	4.33	43	73819	18.047	ug/l 98
13) Acrolein	3.61	56	31802	110.275	ug/l 99
14) Acrylonitrile	4.99	53	173471	96.271	ug/l 98
15) Acetone	3.81	58	54180	87.107	ug/l 98
16) Carbon Disulfide	4.05	76	148610	18.439	ug/l 99
17) Allyl chloride	4.32	41	102363	19.150	ug/l 96
18) Methylene Chloride	4.55	84	70440	19.634	ug/l 97
19) trans-1,2-Dichloroethene	5.04	96	62944	19.241	ug/l 97
20) Diisopropyl ether	5.95	45	208525	19.578	ug/l 99
21) 1,1-Dichloroethane	5.85	63	118785	19.519	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	73384	19.184	ug/l 99
23) tert-Butyl Alcohol	4.79	59	60294	95.923	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	186609	19.146	ug/l 99
25) Chloroform	7.37	83	116383	19.630	ug/l 99
26) Cyclohexane	7.65	56	106719	18.866	ug/l # 100
29) 1,1-Dichloropropene	7.79	75	86852	19.627	ug/l 98
30) 2-Butanone	6.84	43	237064	92.531	ug/l 98
31) 2,2-Dichloropropane	6.83	77	85490	19.962	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	93647	19.854	ug/l 99
33) Carbon Tetrachloride	7.78	117	81509	20.081	ug/l 98
34) Benzene	8.04	78	277016	20.374	ug/l 99
35) Methacrylonitrile	7.17	41	31942m	16.320	ug/l
36) 1,2-Dichloroethane	8.12	62	87633	20.065	ug/l 99
37) Trichloroethene	8.84	130	75050	20.325	ug/l 98
38) Methylcyclohexane	9.08	83	107253	19.186	ug/l 99
39) 1,2-Dichloropropane	9.12	63	73772	20.215	ug/l 99
40) Dibromomethane	9.21	93	46362	19.945	ug/l 98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071819\
 Data File : VN056804.D
 Acq On : 18 Jul 2019 10:55
 Operator : JC/SP
 Sample : VN0718WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS01

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 11:31:33 PM

Quant Time: Jul 19 05:44:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:58:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	85976	20.069	ug/l	99
42) Vinyl Acetate	5.90	43	854536	100.218	ug/l	99
43) Ethyl Acetate	6.93	43	93328	20.158	ug/l	99
44) Isopropyl Acetate	8.17	43	139886	19.372	ug/l	99
45) 1,4-Dioxane	9.20	88	28296	387.335	ug/l	97
46) Methyl methacrylate	9.20	41	67594	19.485	ug/l	95
47) n-amyl Acetate	12.07	43	106781	18.081	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	88699	18.823	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	105075	19.766	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	69232	20.443	ug/l	98
51) Ethyl methacrylate	10.43	69	101477	19.481	ug/l	99
52) 1,3-Dichloropropane	10.71	76	114772	20.254	ug/l	98
53) Dibromochloromethane	10.90	129	68115	19.901	ug/l	98
54) 1,2-Dibromoethane	11.00	107	69621	19.781	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	234972	93.281	ug/l	99
56) Bromoform	12.13	173	49334	19.471	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	462259	100.933	ug/l	100
59) 2-Hexanone	10.75	43	329916	94.900	ug/l	99
61) Tetrachloroethene	10.63	164	73491	21.019	ug/l	99
62) Toluene	10.16	91	290414	20.320	ug/l	99
64) Chlorobenzene	11.43	112	175131	20.091	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	66353	20.763	ug/l	98
66) Ethyl Benzene	11.51	91	307703	19.918	ug/l	100
67) m/p-Xylenes	11.62	106	227610	39.040	ug/l	99
68) o-Xylene	11.95	106	111753	19.652	ug/l	99
69) Styrene	11.96	104	183222	19.445	ug/l	99
70) Isopropylbenzene	12.25	105	297602	19.966	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	97596	20.173	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	87435m	21.145	ug/l	
73) Bromobenzene	12.53	156	77010	19.771	ug/l	99
74) n-propylbenzene	12.59	91	322029	19.149	ug/l	100
75) 2-Chlorotoluene	12.67	91	197548	19.505	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	253664	19.952	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	25085	18.250	ug/l	96
78) 4-Chlorotoluene	12.77	91	183346	18.668	ug/l	99
79) tert-butylbenzene	12.99	119	212965	19.691	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	250649	19.879	ug/l	100
81) sec-Butylbenzene	13.17	105	277591	19.390	ug/l	100
82) p-Isopropyltoluene	13.29	119	249079	19.131	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	119479	18.404	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	111718	17.952	ug/l	99
85) n-Butylbenzene	13.61	91	189979	17.691	ug/l	99
86) Hexachloroethane	13.87	117	39124	19.152	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	124183	19.034	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	15594	18.682	ug/l	100
89) 1,2,4-Trichlorobenzene	14.90	180	50216	14.310	ug/l	100
90) Hexachlorobutadiene	15.01	225	42033	18.423	ug/l	97
91) Naphthalene	15.13	128	126838	13.438	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	56576	15.375	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071819\
Data File : VN056804.D
Acq On : 18 Jul 2019 10:55
Operator : JC/SP
Sample : VN0718WBS01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS01

Manual Integrations
APPROVED

MMDadoda
7/19/2019 11:31:33 PM

Quant Time: Jul 19 05:44:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 12 23:58:13 2019
Response via : Initial Calibration

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

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071819\
 Data File : VN056804.D
 Acq On : 18 Jul 2019 10:55
 Operator : JC/SP
 Sample : VN0718WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 Client Sample Id :
 VN0718WBS01

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 11:31:33 PM

Quant Time: Jul 19 05:44:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:58:13 2019
 Response via : Initial Calibration

