

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092118\
 Data File : VN051363.D
 Acq On : 21 Sep 2018 12:19
 Operator : MD\SY
 Sample : VN0921WBSD01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0921WBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/25/2018 10:53:33 AM

Quant Time: Sep 22 07:02:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	123659	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	667918	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	564847	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	221148	28.02	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	93.40%
60) 4-Bromofluorobenzene	12.40	95	243104	28.94	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.47%
63) Toluene-d8	10.09	98	818310	31.07	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.57%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	114621	14.926	ug/l 99
3) Chloromethane	2.06	50	134452	14.827	ug/l 99
4) Vinyl Chloride	2.18	62	150109	16.754	ug/l 95
5) Bromomethane	2.57	94	89794	16.442	ug/l 100
6) Chloroethane	2.71	64	93813	17.751	ug/l 97
7) Trichlorofluoromethane	3.02	101	216182	18.200	ug/l 96
8) Diethyl Ether	3.41	74	69717	16.647	ug/l 90
9) 1,1,2-Trichlorotrifluoroet	3.76	101	132481	18.011	ug/l 95
10) 1,1-Dichloroethene	3.74	96	115514	17.288	ug/l 97
11) Methyl Iodide	3.95	142	157070	25.195	ug/l 99
12) Methyl Acetate	4.33	43	91297	11.816	ug/l 98
13) Acrolein	3.61	56	23249	135.889	ug/l 99
14) Acrylonitrile	4.99	53	182957	70.035	ug/l 97
15) Acetone	3.82	58	47215	70.630	ug/l 85
16) Carbon Disulfide	4.05	76	327545	16.303	ug/l 99
17) Allyl chloride	4.33	41	160597	15.275	ug/l 96
18) Methylene Chloride	4.55	84	137332	17.510	ug/l 97
19) trans-1,2-Dichloroethene	5.04	96	123968	17.413	ug/l 95
20) Diisopropyl ether	5.95	45	355951	16.310	ug/l 94
21) 1,1-Dichloroethane	5.85	63	226215	16.906	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	141469	17.592	ug/l 98
23) tert-Butyl Alcohol	4.79	59	35649	64.167	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	301789	16.513	ug/l 100
25) Chloroform	7.37	83	244096	18.277	ug/l 99
26) Cyclohexane	7.66	56	182461	16.459	ug/l # 97
29) 1,1-Dichloropropene	7.80	75	174527	17.454	ug/l 99
30) 2-Butanone	6.84	43	188372	61.237	ug/l # 96
31) 2,2-Dichloropropane	6.83	77	191553	19.687	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	212100	18.705	ug/l 97
33) Carbon Tetrachloride	7.78	117	194526	19.050	ug/l 97
34) Benzene	8.04	78	533182	17.236	ug/l 98
35) Methacrylonitrile	7.17	41	38850	11.528	ug/l 91
36) 1,2-Dichloroethane	8.13	62	163264	17.451	ug/l 98
37) Trichloroethene	8.84	130	149272	18.462	ug/l 95
38) Methylcyclohexane	9.08	83	197861	18.424	ug/l 97
39) 1,2-Dichloropropane	9.12	63	138719	17.170	ug/l 99
40) Dibromomethane	9.21	93	84091	17.279	ug/l 97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092118\
 Data File : VN051363.D
 Acq On : 21 Sep 2018 12:19
 Operator : MD\SY
 Sample : VN0921WBSD01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0921WBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/25/2018 10:53:33 AM

Quant Time: Sep 22 07:02:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	184522	17.986	ug/l	97
42) Vinyl Acetate	5.90	43	1085115	76.584	ug/l	96
43) Ethyl Acetate	6.93	43	75829	12.033	ug/l	95
44) Isopropyl Acetate	8.17	43	161888	14.559	ug/l #	73
45) 1,4-Dioxane	9.20	88	22940	277.718	ug/l #	94
46) Methyl methacrylate	9.20	41	74150	13.315	ug/l	98
47) n-amyl Acetate	12.07	43	114829	12.844	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	168783	16.784	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	203700	17.633	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	126224	17.850	ug/l	95
51) Ethyl methacrylate	10.43	69	132376	15.300	ug/l	95
52) 1,3-Dichloropropane	10.71	76	198774	16.971	ug/l	100
53) Dibromochloromethane	10.90	129	145261	18.066	ug/l	99
54) 1,2-Dibromoethane	11.01	107	116343	16.639	ug/l	96
55) 2-Chloroethyl vinyl ether	9.70	63	311278	86.469	ug/l	97
56) Bromoform	12.12	173	98435	17.213	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	426517	65.996	ug/l	96
59) 2-Hexanone	10.75	43	266330	63.047	ug/l	98
61) Tetrachloroethene	10.63	164	141166	20.056	ug/l	98
62) Toluene	10.16	91	586482	18.611	ug/l	100
64) Chlorobenzene	11.43	112	366669	18.774	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	146220	19.829	ug/l	98
66) Ethyl Benzene	11.51	91	583620	17.880	ug/l	99
67) m/p-Xylenes	11.62	106	471357	37.531	ug/l	98
68) o-Xylene	11.95	106	228179	19.015	ug/l	96
69) Styrene	11.96	104	349812	18.334	ug/l	99
70) Isopropylbenzene	12.25	105	605624	18.992	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	139937	16.208	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	118199m	15.869	ug/l	
73) Bromobenzene	12.53	156	158929	18.943	ug/l	91
74) n-propylbenzene	12.59	91	651729	18.078	ug/l	97
75) 2-Chlorotoluene	12.67	91	402791	18.391	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	505570	19.401	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	34298	16.163	ug/l	94
78) 4-Chlorotoluene	12.77	91	388020	17.993	ug/l	97
79) tert-butylbenzene	12.99	119	447301	19.765	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	499767	19.236	ug/l	100
81) sec-Butylbenzene	13.17	105	581469	19.637	ug/l	99
82) p-Isopropyltoluene	13.29	119	510640	19.979	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	264390	18.639	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	247836	18.440	ug/l	99
85) n-Butylbenzene	13.61	91	363844	18.657	ug/l	98
86) Hexachloroethane	13.87	117	101797	20.751	ug/l	93
87) 1,2-Dichlorobenzene	13.65	146	263162	18.849	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	18240	15.101	ug/l	84
89) 1,2,4-Trichlorobenzene	14.91	180	108514	17.458	ug/l	99
90) Hexachlorobutadiene	15.01	225	102258	24.215	ug/l	99
91) Naphthalene	15.13	128	174128	17.540	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	114814	18.409	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092118\
Data File : VN051363.D
Acq On : 21 Sep 2018 12:19
Operator : MD\SY
Sample : VN0921WBSD01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0921WBSD01

Manual Integrations
APPROVED

MMDadoda
9/25/2018 10:53:33 AM

Quant Time: Sep 22 07:02:25 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N082818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 29 01:38:44 2018
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\VN092118\
Data File : VN051363.D
Acq On : 21 Sep 2018 12:19
Operator : MD\SY
Sample : VN0921WBSD01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
Client Sample Id :
VN0921WBSD01

Manual Integrations
APPROVED

MMDadoda
9/25/2018 10:53:33 AM

Quant Time: Sep 22 07:02:25 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N082818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 29 01:38:44 2018
Response via : Initial Calibration

