

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055736.D
 Acq On : 22 May 2019 23:12
 Operator : JC/SP
 Sample : VN0522WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0522WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 12:30:00 PM

Quant Time: May 23 06:48:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	57833	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	314509	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	271268	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	113402	30.00	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.00%
60) 4-Bromofluorobenzene	12.40	95	124070	29.40	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.00%
63) Toluene-d8	10.09	98	377381	30.44	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	47702	18.812	ug/l 98
3) Chloromethane	2.06	50	71192	19.738	ug/l 97
4) Vinyl Chloride	2.19	62	74591	20.263	ug/l 100
5) Bromomethane	2.54	94	46874	21.749	ug/l 99
6) Chloroethane	2.69	64	46106	21.440	ug/l 96
7) Trichlorofluoromethane	3.01	101	93974	20.348	ug/l 99
8) Diethyl Ether	3.40	74	42869	21.116	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.74	101	57621	19.746	ug/l 99
10) 1,1-Dichloroethene	3.72	96	62410	20.445	ug/l 97
11) Methyl Iodide	3.94	142	84187	19.332	ug/l 99
12) Methyl Acetate	4.33	43	72716	19.477	ug/l 100
13) Acrolein	3.60	56	46901	90.411	ug/l 100
14) Acrylonitrile	4.99	53	170436	100.132	ug/l 99
15) Acetone	3.82	58	46247	87.486	ug/l 95
16) Carbon Disulfide	4.04	76	176467	20.163	ug/l 98
17) Allyl chloride	4.31	41	107064	19.474	ug/l 99
18) Methylene Chloride	4.55	84	71019	20.314	ug/l 98
19) trans-1,2-Dichloroethene	5.03	96	66336	20.201	ug/l 99
20) Diisopropyl ether	5.96	45	214053	20.070	ug/l 97
21) 1,1-Dichloroethane	5.84	63	120902	20.058	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	77948	20.353	ug/l 96
23) tert-Butyl Alcohol	4.81	59	72053	96.388	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	210881	20.360	ug/l 99
25) Chloroform	7.37	83	124223	20.866	ug/l 99
26) Cyclohexane	7.65	56	108741	19.555	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	88665	20.138	ug/l 99
30) 2-Butanone	6.84	43	222889	94.978	ug/l 99
31) 2,2-Dichloropropane	6.82	77	90242	17.613	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	108329	20.758	ug/l 99
33) Carbon Tetrachloride	7.77	117	96021	20.569	ug/l 99
34) Benzene	8.04	78	280848	20.661	ug/l 99
35) Methacrylonitrile	7.18	41	46071	21.270	ug/l 90
36) 1,2-Dichloroethane	8.12	62	90970	20.479	ug/l 100
37) Trichloroethene	8.83	130	76430	20.152	ug/l 99
38) Methylcyclohexane	9.08	83	105560	18.923	ug/l 99
39) 1,2-Dichloropropane	9.12	63	72265	19.776	ug/l 95
40) Dibromomethane	9.21	93	49219	20.859	ug/l 95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055736.D
 Acq On : 22 May 2019 23:12
 Operator : JC/SP
 Sample : VN0522WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0522WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 12:30:00 PM

Quant Time: May 23 06:48:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	99113	20.494	ug/l	98
42) Vinyl Acetate	5.90	43	915298	100.457	ug/l	99
43) Ethyl Acetate	6.93	43	90994	19.726	ug/l #	100
44) Isopropyl Acetate	8.17	43	150266	19.672	ug/l #	87
45) 1,4-Dioxane	9.21	88	28441	395.781	ug/l	97
46) Methyl methacrylate	9.20	41	69616	19.534	ug/l	98
47) n-amyl Acetate	12.07	43	119969	18.989	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	103034	19.301	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	114546	19.603	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	70139	20.418	ug/l	98
51) Ethyl methacrylate	10.43	69	110747	20.002	ug/l	100
52) 1,3-Dichloropropane	10.71	76	113076	19.970	ug/l	99
53) Dibromochloromethane	10.90	129	81620	20.113	ug/l	98
54) 1,2-Dibromoethane	11.01	107	72852	20.495	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	201277	93.429	ug/l	99
56) Bromoform	12.13	173	63419	19.052	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	455231	101.371	ug/l	99
59) 2-Hexanone	10.75	43	312982	97.488	ug/l	99
61) Tetrachloroethene	10.63	164	76306	20.780	ug/l	96
62) Toluene	10.16	91	305410	20.936	ug/l	99
64) Chlorobenzene	11.43	112	182644	20.640	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	74399	20.867	ug/l	99
66) Ethyl Benzene	11.51	91	326074	20.458	ug/l	100
67) m/p-Xylenes	11.62	106	248104	40.977	ug/l	99
68) o-Xylene	11.95	106	124343	20.753	ug/l	98
69) Styrene	11.96	104	199770	20.209	ug/l	99
70) Isopropylbenzene	12.25	105	321801	20.527	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	98014	20.316	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	88602m	21.338	ug/l	
73) Bromobenzene	12.53	156	81261	19.594	ug/l	98
74) n-propylbenzene	12.59	91	334102	19.761	ug/l	100
75) 2-Chlorotoluene	12.68	91	208958	20.232	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	260741	20.122	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	29370	17.807	ug/l	97
78) 4-Chlorotoluene	12.77	91	193152	19.733	ug/l	99
79) tert-butylbenzene	12.99	119	234735	20.605	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	258011	20.058	ug/l	98
81) sec-Butylbenzene	13.17	105	287880	19.889	ug/l	100
82) p-Isopropyltoluene	13.29	119	263341	19.769	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	124611	19.167	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	117142	18.920	ug/l	98
85) n-Butylbenzene	13.61	91	194525	18.771	ug/l	99
86) Hexachloroethane	13.87	117	52365	19.986	ug/l	93
87) 1,2-Dichlorobenzene	13.65	146	128719	19.662	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	17527	19.168	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	57663	16.318	ug/l	99
90) Hexachlorobutadiene	15.01	225	45986	17.441	ug/l	99
91) Naphthalene	15.13	128	165820	17.174	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	62555	16.938	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
Data File : VN055736.D
Acq On : 22 May 2019 23:12
Operator : JC/SP
Sample : VN0522WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

Manual Integrations
APPROVED

MMDadoda
5/23/2019 12:30:00 PM

Quant Time: May 23 06:48:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 23 05:54:54 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:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN052219\
Data File : VN055736.D
Acq On : 22 May 2019 23:12
Operator : JC/SP
Sample : VN0522WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0522WBSD01

Manual Integrations
APPROVED

MMDadoda
5/23/2019 12:30:00 PM

Quant Time: May 23 06:48:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 23 05:54:54 2019
Response via : Initial Calibration

