

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111219\
 Data File : VX013380.D
 Acq On : 12 Nov 2019 12:45
 Operator : JC/SP
 Sample : VX1112WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1112WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/13/2019 9:38:14 AM

Quant Time: Nov 12 13:07:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	119890	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	657077	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	588098	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	251130	28.37	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.57%
60) 4-Bromofluorobenzene	11.13	95	275000	29.09	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.97%
63) Toluene-d8	8.71	98	802449	30.17	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	182259	20.290	ug/l 99
3) Chloromethane	1.31	50	206205	21.063	ug/l 97
4) Vinyl Chloride	1.40	62	229740	20.652	ug/l 100
5) Bromomethane	1.63	94	130667	19.539	ug/l 97
6) Chloroethane	1.72	64	128540	21.021	ug/l 99
7) Trichlorofluoromethane	1.92	101	245891	20.532	ug/l 98
8) Diethyl Ether	2.17	74	111634	20.415	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	145691	20.220	ug/l 99
10) 1,1-Dichloroethene	2.36	96	150620	20.342	ug/l 100
11) Methyl Iodide	2.50	142	169327	18.521	ug/l 99
12) Methyl Acetate	2.76	43	256669	19.782	ug/l 93
13) Acrolein	2.28	56	107644	78.105	ug/l 98
14) Acrylonitrile	3.12	53	444820	93.232	ug/l 98
15) Acetone	2.43	58	134576	93.132	ug/l 96
16) Carbon Disulfide	2.56	76	411064	19.904	ug/l 99
17) Allyl chloride	2.72	41	273363	20.048	ug/l 99
18) Methylene Chloride	2.84	84	170823	20.334	ug/l 99
19) trans-1,2-Dichloroethene	3.15	96	160766	20.316	ug/l 100
20) Diisopropyl ether	3.84	45	538808	20.539	ug/l # 86
21) 1,1-Dichloroethane	3.69	63	295566	20.686	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	184251	20.422	ug/l 98
23) tert-Butyl Alcohol	3.03	59	212254	92.442	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	503353	20.540	ug/l 99
25) Chloroform	5.20	83	292197	20.892	ug/l 97
26) Cyclohexane	5.57	56	260899	20.107	ug/l # 100
29) 1,1-Dichloropropene	5.79	75	214144	21.337	ug/l 99
30) 2-Butanone	4.65	43	679165	102.525	ug/l 100
31) 2,2-Dichloropropane	4.58	77	229705	21.134	ug/l 99
32) 1,1,1-Trichloroethane	5.48	97	237978	21.333	ug/l 99
33) Carbon Tetrachloride	5.78	117	204670	21.123	ug/l 99
34) Benzene	6.13	78	667761	21.936	ug/l 97
35) Methacrylonitrile	5.03	41	141514	21.392	ug/l 96
36) 1,2-Dichloroethane	6.18	62	231197	21.698	ug/l 100
37) Trichloroethene	7.21	130	173596	21.286	ug/l 99
38) Methylcyclohexane	7.45	83	257950	20.962	ug/l 100
39) 1,2-Dichloropropane	7.51	63	166556	21.160	ug/l 99
40) Dibromomethane	7.65	93	111526	21.291	ug/l 99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111219\
 Data File : VX013380.D
 Acq On : 12 Nov 2019 12:45
 Operator : JC/SP
 Sample : VX1112WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX1112WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/13/2019 9:38:14 AM

Quant Time: Nov 12 13:07:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	216066	21.130	ug/l	94
42) Vinyl Acetate	3.80	43	2235622	107.193	ug/l	100
43) Ethyl Acetate	4.82	43	253660	20.995	ug/l	97
44) Isopropyl Acetate	6.43	43	402024	20.700	ug/l	98
45) 1,4-Dioxane	7.73	88	87896	409.926	ug/l	100
46) Methyl methacrylate	7.76	41	201927	20.902	ug/l	99
47) n-amyl Acetate	10.89	43	348138	20.436	ug/l	100
48) t-1,3-Dichloropropene	9.03	75	235703	20.556	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	264727	21.070	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	170243	21.963	ug/l	98
51) Ethyl methacrylate	9.17	69	262983	20.606	ug/l	97
52) 1,3-Dichloropropane	9.37	76	285099	21.515	ug/l	99
53) Dibromochloromethane	9.57	129	172048	20.942	ug/l	98
54) 1,2-Dibromoethane	9.67	107	180834	21.817	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	521985	95.721	ug/l	100
56) Bromoform	10.85	173	130078	19.896	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	1305999	106.304	ug/l	100
59) 2-Hexanone	9.48	43	992024	102.053	ug/l	98
61) Tetrachloroethene	9.33	164	158475	21.853	ug/l	97
62) Toluene	8.78	91	717441	21.901	ug/l	99
64) Chlorobenzene	10.14	112	439809	21.473	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	162467	21.191	ug/l	99
66) Ethyl Benzene	10.25	91	779438	21.658	ug/l	100
67) m/p-Xylenes	10.35	106	590616	42.545	ug/l	98
68) o-Xylene	10.70	106	291037	21.723	ug/l	98
69) Styrene	10.71	104	488332	21.346	ug/l	99
70) Isopropylbenzene	11.01	105	762480	21.599	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	263425	20.840	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	248170m	23.252	ug/l	
73) Bromobenzene	11.25	156	200438	21.530	ug/l	97
74) n-propylbenzene	11.35	91	854253	21.293	ug/l	100
75) 2-Chlorotoluene	11.42	91	510463	21.397	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	627200	21.137	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	84591	19.602	ug/l	96
78) 4-Chlorotoluene	11.51	91	579041	21.184	ug/l	100
79) tert-butylbenzene	11.76	119	618713	20.666	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	628023	21.238	ug/l	100
81) sec-Butylbenzene	11.94	105	723403	21.178	ug/l	100
82) p-Isopropyltoluene	12.06	119	668776	21.250	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	344329	21.037	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	337885	20.797	ug/l	99
85) n-Butylbenzene	12.39	91	553777	20.388	ug/l	100
86) Hexachloroethane	12.59	117	114804	19.878	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	343592	20.993	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.99	75	56401	19.952	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	226648	20.084	ug/l	97
90) Hexachlorobutadiene	13.78	225	108347	20.036	ug/l	97
91) Naphthalene	13.83	128	733595	20.531	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	230973	20.253	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111219\
Data File : VX013380.D
Acq On : 12 Nov 2019 12:45
Operator : JC/SP
Sample : VX1112WBS01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1112WBS01

Manual Integrations
APPROVED

MMDadoda
11/13/2019 9:38:14 AM

Quant Time: Nov 12 13:07:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 12 01:16:13 2019
Response via : Initial Calibration

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

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

