

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120719\
 Data File : VX0137840.D
 Acq On : 07 Dec 2019 14:56
 Operator : JC/SP
 Sample : VX1207WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Manual Integrations
 APPROVED

apatel
 12/9/2019 2:07:29 PM

Quant Time: Dec 09 02:46:01 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	100745	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	556230	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	497615	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	214243	28.80	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.00%
60) 4-Bromofluorobenzene	11.13	95	239613	29.96	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.87%
63) Toluene-d8	8.71	98	668196	29.69	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	148895	19.725	ug/l 97
3) Chloromethane	1.32	50	160432	19.501	ug/l 98
4) Vinyl Chloride	1.40	62	182217	19.493	ug/l 99
5) Bromomethane	1.63	94	101407	18.045	ug/l 99
6) Chloroethane	1.72	64	105482	20.528	ug/l 99
7) Trichlorofluoromethane	1.92	101	194945	19.372	ug/l 97
8) Diethyl Ether	2.18	74	95006	20.676	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	122717	20.268	ug/l 99
10) 1,1-Dichloroethene	2.36	96	119733	19.244	ug/l 97
11) Methyl Iodide	2.50	142	139966	18.218	ug/l 100
12) Methyl Acetate	2.76	43	217029	19.906	ug/l 99
13) Acrolein	2.28	56	103783	89.614	ug/l 98
14) Acrylonitrile	3.13	53	380114	94.810	ug/l 98
15) Acetone	2.43	58	116030	95.556	ug/l 100
16) Carbon Disulfide	2.56	76	317622	18.302	ug/l 100
17) Allyl chloride	2.72	41	218636	19.081	ug/l 95
18) Methylene Chloride	2.84	84	146101	20.696	ug/l 100
19) trans-1,2-Dichloroethene	3.16	96	131385	19.758	ug/l 99
20) Diisopropyl ether	3.84	45	452948	20.547	ug/l 94
21) 1,1-Dichloroethane	3.68	63	240425	20.024	ug/l 97
22) cis-1,2-Dichloroethene	4.58	96	154902	20.432	ug/l 97
23) tert-Butyl Alcohol	3.02	59	172536	89.424	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	425613	20.668	ug/l 99
25) Chloroform	5.20	83	238086	20.258	ug/l 96
26) Cyclohexane	5.56	56	208701	19.141	ug/l # 5
29) 1,1-Dichloropropene	5.79	75	175260	20.629	ug/l 98
30) 2-Butanone	4.65	43	548894	97.882	ug/l # 98
31) 2,2-Dichloropropane	4.57	77	188602	20.498	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	193499	20.491	ug/l 99
33) Carbon Tetrachloride	5.77	117	166520	20.302	ug/l 99
34) Benzene	6.13	78	542497	21.052	ug/l 98
35) Methacrylonitrile	5.02	41	110521	19.736	ug/l 99
36) 1,2-Dichloroethane	6.18	62	195697	21.696	ug/l 99
37) Trichloroethene	7.20	130	145978	21.145	ug/l 98
38) Methylcyclohexane	7.45	83	215480	20.685	ug/l 98
39) 1,2-Dichloropropane	7.50	63	141348	21.214	ug/l 95
40) Dibromomethane	7.65	93	93730	21.137	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	179806	20.772	ug/l	98
42) Vinyl Acetate	3.80	43	1859111	105.301	ug/l	99
43) Ethyl Acetate	4.81	43	195830	19.147	ug/l	95
44) Isopropyl Acetate	6.43	43	331698	20.176	ug/l	99
45) 1,4-Dioxane	7.73	88	66185	364.634	ug/l	97
46) Methyl methacrylate	7.76	41	165266	20.209	ug/l	100
47) n-amyl Acetate	10.89	43	283211	19.639	ug/l	97
48) t-1,3-Dichloropropene	9.03	75	198778	20.479	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	223558	21.019	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	140878	21.469	ug/l	97
51) Ethyl methacrylate	9.17	69	224250	20.757	ug/l	99
52) 1,3-Dichloropropane	9.36	76	243264	21.686	ug/l	99
53) Dibromochloromethane	9.57	129	145323	20.896	ug/l	98
54) 1,2-Dibromoethane	9.67	107	149087	21.248	ug/l	97
55) 2-Chloroethyl vinyl ether	8.30	63	404331	87.588	ug/l	100
56) Bromoform	10.85	173	110874	20.033	ug/l	97
58) 4-Methyl-2-Pentanone	8.63	43	1058627	101.837	ug/l	99
59) 2-Hexanone	9.48	43	812187	98.745	ug/l	100
61) Tetrachloroethene	9.33	164	134884	21.982	ug/l	97
62) Toluene	8.78	91	581417	20.976	ug/l	99
64) Chlorobenzene	10.13	112	368181	21.244	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	136892	21.101	ug/l	99
66) Ethyl Benzene	10.25	91	646027	21.215	ug/l	100
67) m/p-Xylenes	10.36	106	489505	41.673	ug/l	99
68) o-Xylene	10.70	106	241419	21.297	ug/l	98
69) Styrene	10.71	104	411288	21.247	ug/l	99
70) Isopropylbenzene	11.01	105	628714	21.048	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	219724	20.544	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	181381m	20.085	ug/l	
73) Bromobenzene	11.25	156	168118	21.342	ug/l	98
74) n-propylbenzene	11.35	91	721553	21.256	ug/l	100
75) 2-Chlorotoluene	11.42	91	430920	21.347	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	529930	21.106	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	68467	18.750	ug/l	96
78) 4-Chlorotoluene	11.51	91	489972	21.185	ug/l	100
79) tert-butylbenzene	11.76	119	518870	20.482	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	528426	21.120	ug/l	99
81) sec-Butylbenzene	11.94	105	616244	21.321	ug/l	100
82) p-Isopropyltoluene	12.06	119	554935	20.839	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	289132	20.877	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	292111	21.249	ug/l	99
85) n-Butylbenzene	12.39	91	474543	20.647	ug/l	99
86) Hexachloroethane	12.59	117	98529	20.163	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	290426	20.971	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	45795	19.146	ug/l	96
89) 1,2,4-Trichlorobenzene	13.64	180	197765	20.711	ug/l	99
90) Hexachlorobutadiene	13.78	225	94498	20.652	ug/l	96
91) Naphthalene	13.83	128	595050	19.682	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	198835	20.605	ug/l	100

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

