

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121219\
 Data File : VX013993.D
 Acq On : 12 Dec 2019 23:44
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

apatel
 12/13/2019 11:25:43 AM

Quant Time: Dec 13 01:28:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:15:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	92602	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	513537	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	468231	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	194369	28.37	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.57%
60) 4-Bromofluorobenzene	11.13	95	226694	30.02	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.07%
63) Toluene-d8	8.71	98	627934	29.63	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	228936	35.172	ug/l 97
3) Chloromethane	1.32	50	321732	43.240	ug/l 94
4) Vinyl Chloride	1.40	62	332232	40.172	ug/l 100
5) Bromomethane	1.63	94	227415	43.463	ug/l 100
6) Chloroethane	1.71	64	209606	45.122	ug/l 99
7) Trichlorofluoromethane	1.92	101	414058	45.073	ug/l 98
8) Diethyl Ether	2.18	74	191278	45.525	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	2.37	101	245075	44.603	ug/l 98
10) 1,1-Dichloroethene	2.36	96	251884	44.463	ug/l 98
11) Methyl Iodide	2.50	142	351469	49.817	ug/l 100
12) Methyl Acetate	2.76	43	402545	41.315	ug/l 99
13) Acrolein	2.28	56	255321	238.044	ug/l 98
14) Acrylonitrile	3.13	53	794900	220.064	ug/l 100
15) Acetone	2.44	58	261205	247.150	ug/l 85
16) Carbon Disulfide	2.56	76	698212	44.480	ug/l 97
17) Allyl chloride	2.72	41	461870	44.421	ug/l 99
18) Methylene Chloride	2.85	84	301187	45.964	ug/l 96
19) trans-1,2-Dichloroethene	3.15	96	276732	45.450	ug/l 98
20) Diisopropyl ether	3.84	45	939183	46.241	ug/l 98
21) 1,1-Dichloroethane	3.69	63	503707	45.663	ug/l 100
22) cis-1,2-Dichloroethene	4.58	96	318746	45.712	ug/l 99
23) tert-Butyl Alcohol	3.04	59	311685	182.847	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	859794	45.592	ug/l 99
25) Chloroform	5.20	83	486703	45.222	ug/l 100
26) Cyclohexane	5.57	56	458505	45.739	ug/l # 100
29) 1,1-Dichloropropene	5.79	75	376369	48.121	ug/l 99
30) 2-Butanone	4.66	43	1181566	236.939	ug/l 99
31) 2,2-Dichloropropane	4.58	77	346026	42.205	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	410443	47.550	ug/l 100
33) Carbon Tetrachloride	5.78	117	355127	47.603	ug/l 98
34) Benzene	6.14	78	1161094	48.838	ug/l 98
35) Methacrylonitrile	5.03	41	240847	47.173	ug/l 95
36) 1,2-Dichloroethane	6.18	62	396613	47.981	ug/l 98
37) Trichloroethene	7.20	130	312827	48.921	ug/l 97
38) Methylcyclohexane	7.46	83	458152	48.174	ug/l 99
39) 1,2-Dichloropropane	7.51	63	298363	48.440	ug/l 94
40) Dibromomethane	7.65	93	192120	47.272	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	373716	47.468	ug/l	98
42) Vinyl Acetate	3.80	43	3772898	232.200	ug/l	99
43) Ethyl Acetate	4.82	43	439436	47.568	ug/l	100
44) Isopropyl Acetate	6.43	43	709401	47.351	ug/l	99
45) 1,4-Dioxane	7.73	88	138091	846.459	ug/l	98
46) Methyl methacrylate	7.76	41	348192	46.663	ug/l	99
47) n-amyl Acetate	10.89	43	643294	48.627	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	412007	46.782	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	465316	48.042	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	294168	48.638	ug/l	99
51) Ethyl methacrylate	9.17	69	479419	48.281	ug/l	98
52) 1,3-Dichloropropane	9.37	76	501911	48.502	ug/l	99
53) Dibromochloromethane	9.58	129	305508	48.206	ug/l	98
54) 1,2-Dibromoethane	9.67	107	309210	48.277	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	1071131	252.075	ug/l	100
56) Bromoform	10.85	173	234580	46.687	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	2258214	234.715	ug/l	99
59) 2-Hexanone	9.49	43	1765978	234.524	ug/l	99
61) Tetrachloroethene	9.33	164	358841	61.202	ug/l	98
62) Toluene	8.78	91	1248002	48.079	ug/l	99
64) Chlorobenzene	10.14	112	779531	47.780	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.21	131	286787	47.302	ug/l	99
66) Ethyl Benzene	10.24	91	1380590	48.357	ug/l	99
67) m/p-Xylenes	10.35	106	1057940	95.973	ug/l	99
68) o-Xylene	10.70	106	515172	48.179	ug/l	99
69) Styrene	10.71	104	890624	49.082	ug/l	99
70) Isopropylbenzene	11.01	105	1350862	48.287	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	459606	45.924	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	427926m	49.395	ug/l	
73) Bromobenzene	11.25	156	357440	48.278	ug/l	99
74) n-propylbenzene	11.35	91	1545645	48.615	ug/l	98
75) 2-Chlorotoluene	11.42	91	912217	48.040	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	1138692	48.317	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	149195	45.111	ug/l	88
78) 4-Chlorotoluene	11.51	91	1051008	48.283	ug/l	98
79) tert-butylbenzene	11.76	119	1038982	44.066	ug/l	96
80) 1,2,4-Trimethylbenzene	11.81	105	1143828	48.611	ug/l	99
81) sec-Butylbenzene	11.94	105	1313313	48.439	ug/l	99
82) p-Isopropyltoluene	12.06	119	1196816	48.165	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	621814	47.830	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	613838	47.505	ug/l	100
85) n-Butylbenzene	12.38	91	1013131	47.562	ug/l	99
86) Hexachloroethane	12.59	117	211971	46.734	ug/l	98
87) 1,2-Dichlorobenzene	12.38	146	632417	48.682	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	97801	44.282	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	412790	46.813	ug/l	100
90) Hexachlorobutadiene	13.77	225	194468	45.820	ug/l	99
91) Naphthalene	13.83	128	1272538	46.058	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	418269	47.039	ug/l	99

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

