

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111219\
 Data File : VX013374.D
 Acq On : 12 Nov 2019 09:58
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 11/13/2019 9:39:51 AM

Quant Time: Nov 12 12:36:20 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	130935	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	710652	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	637083	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	275761	28.52	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.07%
60) 4-Bromofluorobenzene	11.13	95	309715	30.25	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.83%
63) Toluene-d8	8.71	98	879136	30.52	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	176619	18.003	ug/l 97
3) Chloromethane	1.32	50	199571	18.666	ug/l 98
4) Vinyl Chloride	1.40	62	216545	17.824	ug/l 99
5) Bromomethane	1.63	94	128564	17.603	ug/l 97
6) Chloroethane	1.72	64	122939	18.409	ug/l 99
7) Trichlorofluoromethane	1.92	101	221398	16.928	ug/l 98
8) Diethyl Ether	2.18	74	104895	17.565	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	137608	17.487	ug/l 98
10) 1,1-Dichloroethene	2.36	96	141176	17.458	ug/l 94
11) Methyl Iodide	2.50	142	147659	14.788	ug/l 99
12) Methyl Acetate	2.76	43	245371	17.316	ug/l 99
13) Acrolein	2.28	56	134850	89.592	ug/l 99
14) Acrylonitrile	3.12	53	439390	84.326	ug/l 97
15) Acetone	2.43	58	157137	99.572	ug/l 95
16) Carbon Disulfide	2.56	76	391809	17.371	ug/l 99
17) Allyl chloride	2.72	41	261552	17.564	ug/l 99
18) Methylene Chloride	2.84	84	160567	17.501	ug/l 94
19) trans-1,2-Dichloroethene	3.15	96	154665	17.896	ug/l 97
20) Diisopropyl ether	3.84	45	511696	17.860	ug/l 92
21) 1,1-Dichloroethane	3.68	63	277747	17.799	ug/l 98
22) cis-1,2-Dichloroethene	4.58	96	174821	17.743	ug/l 97
23) tert-Butyl Alcohol	3.02	59	208445	83.125	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	483557	18.068	ug/l 100
25) Chloroform	5.19	83	274418	17.966	ug/l 98
26) Cyclohexane	5.56	56	241575	17.047	ug/l # 98
29) 1,1-Dichloropropene	5.78	75	200602	18.481	ug/l 99
30) 2-Butanone	4.65	43	694219	96.897	ug/l 99
31) 2,2-Dichloropropane	4.56	77	226179	19.241	ug/l 99
32) 1,1,1-Trichloroethane	5.48	97	224229	18.586	ug/l 99
33) Carbon Tetrachloride	5.77	117	189191	18.054	ug/l 95
34) Benzene	6.13	78	631400	19.178	ug/l 99
35) Methacrylonitrile	5.02	41	132080	18.461	ug/l 94
36) 1,2-Dichloroethane	6.18	62	222325	19.292	ug/l 98
37) Trichloroethene	7.20	130	166790	18.910	ug/l 94
38) Methylcyclohexane	7.45	83	242971	18.256	ug/l 98
39) 1,2-Dichloropropane	7.50	63	160089	18.805	ug/l 100
40) Dibromomethane	7.65	93	104371	18.423	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	206943	18.712	ug/l	97
42) Vinyl Acetate	3.80	43	2145536	95.118	ug/l	100
43) Ethyl Acetate	4.82	43	237875	18.204	ug/l	96
44) Isopropyl Acetate	6.43	43	386777	18.414	ug/l	100
45) 1,4-Dioxane	7.73	88	86810	374.339	ug/l	100
46) Methyl methacrylate	7.76	41	193532	18.523	ug/l	97
47) n-amyl Acetate	10.89	43	341307	18.525	ug/l	100
48) t-1,3-Dichloropropene	9.03	75	231741	18.687	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	259328	19.084	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	153871	18.354	ug/l	98
51) Ethyl methacrylate	9.17	69	255085	18.480	ug/l	97
52) 1,3-Dichloropropane	9.36	76	271258	18.927	ug/l	99
53) Dibromochloromethane	9.57	129	166342	18.721	ug/l	97
54) 1,2-Dibromoethane	9.67	107	168922	18.844	ug/l	98
55) 2-Chloroethyl vinyl ether	8.30	63	547150	92.771	ug/l	99
56) Bromoform	10.85	173	127552	18.039	ug/l	99
58) 4-Methyl-2-Pentanone	8.63	43	1228910	92.338	ug/l	100
59) 2-Hexanone	9.48	43	1008165	95.739	ug/l	99
61) Tetrachloroethene	9.33	164	150703	19.183	ug/l	94
62) Toluene	8.78	91	675430	19.033	ug/l	100
64) Chlorobenzene	10.14	112	424494	19.131	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	154446	18.595	ug/l	99
66) Ethyl Benzene	10.25	91	737266	18.911	ug/l	99
67) m/p-Xylenes	10.35	106	569269	37.854	ug/l	100
68) o-Xylene	10.70	106	275627	18.991	ug/l	99
69) Styrene	10.71	104	466488	18.823	ug/l	98
70) Isopropylbenzene	11.01	105	727910	19.034	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	255527	18.661	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	241195m	20.861	ug/l	
73) Bromobenzene	11.25	156	191511	18.989	ug/l	97
74) n-propylbenzene	11.35	91	826790	19.024	ug/l	99
75) 2-Chlorotoluene	11.42	91	490156	18.966	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	608517	18.930	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	82764	17.704	ug/l	98
78) 4-Chlorotoluene	11.51	91	550923	18.606	ug/l	100
79) tert-butylbenzene	11.76	119	596540	18.393	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	609297	19.021	ug/l	99
81) sec-Butylbenzene	11.94	105	698713	18.882	ug/l	99
82) p-Isopropyltoluene	12.06	119	647576	18.994	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	339318	19.137	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	333089	18.925	ug/l	98
85) n-Butylbenzene	12.39	91	546033	18.557	ug/l	99
86) Hexachloroethane	12.59	117	113629	18.162	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	338788	19.108	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	53912	17.606	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	227743	18.629	ug/l	98
90) Hexachlorobutadiene	13.78	225	106523	18.184	ug/l	96
91) Naphthalene	13.83	128	720276	18.609	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	228578	18.502	ug/l	99

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

