

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101619\
 Data File : VX013085.D
 Acq On : 16 Oct 2019 09:59
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 4:51:35 PM

Quant Time: Oct 17 03:43:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 17 03:05:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	29930	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	274304	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	246265	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	102017	44.45	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	148.17%
60) 4-Bromofluorobenzene	11.14	95	122908	28.51	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.03%
63) Toluene-d8	8.71	98	308620	27.47	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	91.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	81221	40.251	ug/l 100
3) Chloromethane	1.32	50	81595	41.196	ug/l 99
4) Vinyl Chloride	1.40	62	84302	42.669	ug/l 96
5) Bromomethane	1.62	94	31830	34.473	ug/l 99
6) Chloroethane	1.71	64	54552	44.911	ug/l 99
7) Trichlorofluoromethane	1.92	101	133303	45.919	ug/l 97
8) Diethyl Ether	2.18	74	49134	45.990	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	88037	48.108	ug/l 98
10) 1,1-Dichloroethene	2.36	96	81181	45.095	ug/l 98
11) Methyl Iodide	2.50	142	94558	42.946	ug/l 99
12) Methyl Acetate	2.76	43	115128	45.732	ug/l 100
13) Acrolein	2.28	56	90144	248.844	ug/l 99
14) Acrylonitrile	3.13	53	242686	230.961	ug/l 100
15) Acetone	2.44	58	94350	253.637	ug/l 87
16) Carbon Disulfide	2.56	76	197229	40.513	ug/l 99
17) Allyl chloride	2.72	41	140131	45.869	ug/l 99
18) Methylene Chloride	2.84	84	94771	46.274	ug/l 96
19) trans-1,2-Dichloroethene	3.15	96	87500	45.393	ug/l 96
20) Diisopropyl ether	3.84	45	284095	48.471	ug/l 97
21) 1,1-Dichloroethane	3.69	63	161293	47.719	ug/l 100
22) cis-1,2-Dichloroethene	4.58	96	102643	46.333	ug/l 99
23) tert-Butyl Alcohol	3.03	59	110452	208.051	ug/l 100
24) Methyl tert-Butyl Ether	3.18	73	292917	47.739	ug/l 99
25) Chloroform	5.19	83	165567	47.371	ug/l 96
26) Cyclohexane	5.57	56	141822	46.175	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	122480	29.273	ug/l 99
30) 2-Butanone	4.65	43	372922	151.317	ug/l 99
31) 2,2-Dichloropropane	4.57	77	142707	30.150	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	146915	30.015	ug/l 98
33) Carbon Tetrachloride	5.77	117	126096	30.028	ug/l 99
34) Benzene	6.13	78	366512	29.506	ug/l 99
35) Methacrylonitrile	5.03	41	68145	28.197	ug/l 96
36) 1,2-Dichloroethane	6.18	62	132941	29.602	ug/l 99
37) Trichloroethene	7.20	130	100086	30.160	ug/l 97
38) Methylcyclohexane	7.45	83	153203	29.917	ug/l 99
39) 1,2-Dichloropropane	7.50	63	92845	29.763	ug/l 100
40) Dibromomethane	7.65	93	64244	30.326	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	128431	30.534	ug/l	100
42) Vinyl Acetate	3.80	43	1209060	149.810	ug/l	100
43) Ethyl Acetate	4.81	43	127277	28.696	ug/l	97
44) Isopropyl Acetate	6.43	43	208248	29.116	ug/l	100
45) 1,4-Dioxane	7.73	88	48886	556.125	ug/l	97
46) Methyl methacrylate	7.76	41	102577	29.343	ug/l	88
47) n-amyl Acetate	10.89	43	183756	30.175	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	139132	29.888	ug/l	94
49) cis-1,3-Dichloropropene	8.43	75	155598	30.298	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	95196	29.776	ug/l	98
51) Ethyl methacrylate	9.17	69	148817	29.596	ug/l	97
52) 1,3-Dichloropropane	9.37	76	160064	29.831	ug/l	100
53) Dibromochloromethane	9.57	129	100038	30.470	ug/l	99
54) 1,2-Dibromoethane	9.67	107	99001	29.440	ug/l	97
55) 2-Chloroethyl vinyl ether	8.30	63	344374	155.675	ug/l	100
56) Bromoform	10.85	173	68640	30.044	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	642313	143.343	ug/l	100
59) 2-Hexanone	9.48	43	529003	151.287	ug/l	100
61) Tetrachloroethene	9.33	164	98011	31.238	ug/l	95
62) Toluene	8.78	91	392735	29.345	ug/l	100
64) Chlorobenzene	10.14	112	249579	29.343	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	93855	30.043	ug/l	99
66) Ethyl Benzene	10.25	91	456275	29.871	ug/l	99
67) m/p-Xylenes	10.35	106	344466	59.941	ug/l	97
68) o-Xylene	10.70	106	168607	30.129	ug/l	98
69) Styrene	10.71	104	293848	30.502	ug/l	100
70) Isopropylbenzene	11.01	105	459312	30.730	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	141735	29.138	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	120775m	29.860	ug/l	
73) Bromobenzene	11.25	156	108704	30.493	ug/l	95
74) n-propylbenzene	11.35	91	506145	30.317	ug/l	100
75) 2-Chlorotoluene	11.42	91	312292	30.534	ug/l	96
76) 1,3,5-Trimethylbenzene	11.50	105	380137	29.888	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	47589	30.404	ug/l	93
78) 4-Chlorotoluene	11.51	91	345939	29.250	ug/l	99
79) tert-butylbenzene	11.77	119	352126	29.431	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	391728	30.884	ug/l	100
81) sec-Butylbenzene	11.94	105	441557	30.637	ug/l	99
82) p-Isopropyltoluene	12.06	119	409533	31.161	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	190448	29.475	ug/l	97
84) 1,4-Dichlorobenzene	12.09	146	202438	31.150	ug/l	97
85) n-Butylbenzene	12.38	91	341253	30.420	ug/l	99
86) Hexachloroethane	12.59	117	69563	30.544	ug/l	95
87) 1,2-Dichlorobenzene	12.38	146	196759	30.875	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	33173	29.699	ug/l	98
89) 1,2,4-Trichlorobenzene	13.64	180	123728	31.118	ug/l	99
90) Hexachlorobutadiene	13.78	225	57150	30.283	ug/l	97
91) Naphthalene	13.83	128	403071	29.805	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	122633	30.790	ug/l	99

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

