

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050719\
 Data File : VX009368.D
 Acq On : 07 May 2019 10:18
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 10:10:25 AM

Quant Time: May 08 02:15:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	35057	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	205769	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	183723	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	85776	29.50	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.33%
60) 4-Bromofluorobenzene	11.13	95	93073	29.81	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.37%
63) Toluene-d8	8.71	98	262264	30.11	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	35768	19.201	ug/l 100
3) Chloromethane	1.32	50	48458	19.353	ug/l 98
4) Vinyl Chloride	1.41	62	47516	19.022	ug/l 100
5) Bromomethane	1.64	94	29707	18.762	ug/l 97
6) Chloroethane	1.72	64	30799	18.801	ug/l 99
7) Trichlorofluoromethane	1.93	101	62198	20.165	ug/l 97
8) Diethyl Ether	2.19	74	28271	19.739	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	39733	20.806	ug/l 99
10) 1,1-Dichloroethene	2.37	96	38560	20.110	ug/l 99
11) Methyl Iodide	2.51	142	36288	17.409	ug/l 98
12) Methyl Acetate	2.77	43	68992	19.102	ug/l 100
13) Acrolein	2.29	56	38126	76.965	ug/l 99
14) Acrylonitrile	3.14	53	153653	98.029	ug/l 99
15) Acetone	2.44	58	47142	104.754	ug/l 96
16) Carbon Disulfide	2.57	76	96790	18.656	ug/l 100
17) Allyl chloride	2.73	41	90902	19.746	ug/l 98
18) Methylene Chloride	2.85	84	46250	19.958	ug/l 96
19) trans-1,2-Dichloroethene	3.17	96	40602	19.859	ug/l 95
20) Diisopropyl ether	3.85	45	181547	20.026	ug/l 97
21) 1,1-Dichloroethane	3.70	63	86511	19.719	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	49491	20.097	ug/l 99
23) tert-Butyl Alcohol	3.04	59	62620	94.482	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	149409	19.910	ug/l 99
25) Chloroform	5.21	83	80332	20.065	ug/l 98
26) Cyclohexane	5.58	56	80772	19.754	ug/l # 96
29) 1,1-Dichloropropene	5.80	75	59518	19.713	ug/l 99
30) 2-Butanone	4.67	43	237594	100.481	ug/l 99
31) 2,2-Dichloropropane	4.58	77	66464	19.968	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	65907	20.136	ug/l 98
33) Carbon Tetrachloride	5.78	117	55554	20.286	ug/l 96
34) Benzene	6.14	78	186863	20.074	ug/l 98
35) Methacrylonitrile	5.04	41	49084	19.841	ug/l 96
36) 1,2-Dichloroethane	6.19	62	67504	19.986	ug/l 100
37) Trichloroethene	7.21	130	44538	19.876	ug/l 96
38) Methylcyclohexane	7.46	83	75300	20.186	ug/l 99
39) 1,2-Dichloropropane	7.51	63	53298	20.107	ug/l 100
40) Dibromomethane	7.66	93	30549	20.305	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	62469	20.327	ug/l	97
42) Vinyl Acetate	3.81	43	776378	99.483	ug/l	99
43) Ethyl Acetate	4.83	43	82003	19.192	ug/l	98
44) Isopropyl Acetate	6.44	43	133839	19.336	ug/l	99
45) 1,4-Dioxane	7.74	88	26737	393.436	ug/l	99
46) Methyl methacrylate	7.76	41	66508	19.251	ug/l	96
47) n-amyl Acetate	10.90	43	120170	19.272	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	70007	19.524	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	77908	19.792	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	47539	20.624	ug/l	98
51) Ethyl methacrylate	9.18	69	82837	19.447	ug/l	99
52) 1,3-Dichloropropane	9.37	76	82695	20.215	ug/l	100
53) Dibromochloromethane	9.58	129	47067	20.503	ug/l	97
54) 1,2-Dibromoethane	9.67	107	47116	19.930	ug/l	99
55) 2-Chloroethyl vinyl ether	8.30	63	180690	79.606	ug/l	99
56) Bromoform	10.85	173	34687	19.684	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	444554	98.406	ug/l	100
59) 2-Hexanone	9.49	43	351104	99.089	ug/l	100
61) Tetrachloroethene	9.34	164	41571	20.525	ug/l	99
62) Toluene	8.78	91	196477	20.013	ug/l	99
64) Chlorobenzene	10.13	112	119630	20.247	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	43869	20.278	ug/l	99
66) Ethyl Benzene	10.25	91	220799	20.189	ug/l	98
67) m/p-Xylenes	10.36	106	161101	40.345	ug/l	100
68) o-Xylene	10.69	106	79780	20.319	ug/l	96
69) Styrene	10.71	104	139084	20.179	ug/l	100
70) Isopropylbenzene	11.02	105	216163	20.471	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	77206	19.965	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	68967m	20.695	ug/l	
73) Bromobenzene	11.25	156	52807	20.241	ug/l	99
74) n-propylbenzene	11.36	91	250017	20.432	ug/l	100
75) 2-Chlorotoluene	11.42	91	148551	20.240	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	182033	20.351	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	25017	18.610	ug/l	98
78) 4-Chlorotoluene	11.51	91	168949	20.268	ug/l	99
79) tert-butylbenzene	11.77	119	173660	20.084	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	183325	20.449	ug/l	99
81) sec-Butylbenzene	11.94	105	210653	20.505	ug/l	99
82) p-Isopropyltoluene	12.06	119	191624	20.505	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	94746	20.335	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	94785	20.419	ug/l	98
85) n-Butylbenzene	12.38	91	174121	20.363	ug/l	99
86) Hexachloroethane	12.59	117	31672	19.917	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	95137	20.285	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	17648	19.638	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	68545	20.505	ug/l	99
90) Hexachlorobutadiene	13.78	225	35136	21.042	ug/l	99
91) Naphthalene	13.83	128	227124	20.751	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	71772	21.121	ug/l	99

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

