

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030819\
 Data File : VX007921.D
 Acq On : 08 Mar 2019 10:20
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 9:30:47 AM

Quant Time: Mar 08 12:10:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X030819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 08 11:07:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	45260	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	241473	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	215289	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	89122	30.44	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.47%
60) 4-Bromofluorobenzene	11.13	95	103147	31.22	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	104.07%
63) Toluene-d8	8.71	98	295632	30.38	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	54369	23.722	ug/l 98
3) Chloromethane	1.33	50	59243	23.520	ug/l 96
4) Vinyl Chloride	1.41	62	55738	19.672	ug/l 100
5) Bromomethane	1.64	94	31642	12.506	ug/l 98
6) Chloroethane	1.73	64	33513	17.401	ug/l 96
7) Trichlorofluoromethane	1.93	101	69119	15.563	ug/l 99
8) Diethyl Ether	2.19	74	37886	21.354	ug/l 88
9) 1,1,2-Trichlorotrifluoroet	2.39	101	54816	21.875	ug/l 98
10) 1,1-Dichloroethene	2.38	96	52517	21.121	ug/l 94
11) Methyl Iodide	2.51	142	81900	22.917	ug/l 93
12) Methyl Acetate	2.78	43	79831	23.281	ug/l 94
13) Acrolein	2.30	56	44808	74.909	ug/l 97
14) Acrylonitrile	3.15	53	179978	113.911	ug/l 99
15) Acetone	2.45	58	73635	171.727	ug/l 100
16) Carbon Disulfide	2.57	76	166128	25.194	ug/l 99
17) Allyl chloride	2.73	41	107405	25.211	ug/l 92
18) Methylene Chloride	2.86	84	60177	21.521	ug/l 98
19) trans-1,2-Dichloroethene	3.17	96	55474	20.859	ug/l 97
20) Diisopropyl ether	3.87	45	199666	24.800	ug/l 96
21) 1,1-Dichloroethane	3.70	63	107156	23.740	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	63515	21.460	ug/l 91
23) tert-Butyl Alcohol	3.06	59	74217	111.758	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	179902	20.849	ug/l 96
25) Chloroform	5.21	83	101135	21.215	ug/l 94
26) Cyclohexane	5.57	56	97909	25.868	ug/l # 91
29) 1,1-Dichloropropene	5.80	75	77269	22.940	ug/l 97
30) 2-Butanone	4.70	43	283684	142.317	ug/l 98
31) 2,2-Dichloropropane	4.59	77	69014	25.219	ug/l # 79
32) 1,1,1-Trichloroethane	5.49	97	82878	20.586	ug/l 98
33) Carbon Tetrachloride	5.79	117	72662	20.417	ug/l 96
34) Benzene	6.15	78	238219	22.434	ug/l 97
35) Methacrylonitrile	5.06	41	51359	24.781	ug/l 94
36) 1,2-Dichloroethane	6.20	62	78240	21.651	ug/l 99
37) Trichloroethene	7.21	130	63567	20.822	ug/l 94
38) Methylcyclohexane	7.46	83	96126	24.653	ug/l 94
39) 1,2-Dichloropropane	7.51	63	61893	23.434	ug/l 99
40) Dibromomethane	7.66	93	39035	20.464	ug/l 91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	72947	21.549	ug/l	97
42) Vinyl Acetate	3.82	43	871013	124.838	ug/l	97
43) Ethyl Acetate	4.85	43	91802	24.049	ug/l #	82
44) Isopropyl Acetate	6.46	43	138817	23.553	ug/l	99
45) 1,4-Dioxane	7.75	88	30784	442.569	ug/l	94
46) Methyl methacrylate	7.77	41	73778	24.720	ug/l	90
47) n-amyl Acetate	10.90	43	121791	23.445	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	77203	22.092	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	88342	22.701	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	60550	21.770	ug/l	97
51) Ethyl methacrylate	9.18	69	91153	22.606	ug/l	91
52) 1,3-Dichloropropane	9.37	76	100556	22.414	ug/l	99
53) Dibromochloromethane	9.58	129	60679	20.976	ug/l	99
54) 1,2-Dibromoethane	9.67	107	63978	21.007	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	204375	99.695	ug/l	98
56) Bromoform	10.86	173	47646	21.836	ug/l #	98
58) 4-Methyl-2-Pentanone	8.65	43	474070	122.422	ug/l	99
59) 2-Hexanone	9.49	43	386913	131.543	ug/l	99
61) Tetrachloroethene	9.34	164	64207	21.009	ug/l	98
62) Toluene	8.78	91	254688	21.722	ug/l	99
64) Chlorobenzene	10.14	112	164215	21.552	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	57251	20.744	ug/l	98
66) Ethyl Benzene	10.25	91	271302	21.805	ug/l	97
67) m/p-Xylenes	10.36	106	209128	42.853	ug/l	95
68) o-Xylene	10.69	106	101626	21.352	ug/l	97
69) Styrene	10.71	104	168582	21.949	ug/l	99
70) Isopropylbenzene	11.02	105	273319	21.766	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.27	83	92969	22.397	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	87301m	23.003	ug/l	
73) Bromobenzene	11.26	156	72878	21.258	ug/l	95
74) n-propylbenzene	11.36	91	307085	22.025	ug/l	98
75) 2-Chlorotoluene	11.42	91	185807	22.289	ug/l	95
76) 1,3,5-Trimethylbenzene	11.51	105	226814	22.128	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	24627	22.480	ug/l	95
78) 4-Chlorotoluene	11.51	91	209580	22.025	ug/l	96
79) tert-butylbenzene	12.06	119	241677	22.204	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	229453	22.052	ug/l	97
81) sec-Butylbenzene	11.94	105	267957	21.891	ug/l	99
82) p-Isopropyltoluene	12.06	119	241677	22.204	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	126472	20.985	ug/l	96
84) 1,4-Dichlorobenzene	12.10	146	128329	21.338	ug/l	98
85) n-Butylbenzene	12.39	91	200018	22.146	ug/l	99
86) Hexachloroethane	12.60	117	37392	20.692	ug/l	82
87) 1,2-Dichlorobenzene	12.39	146	127273	21.040	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	18530	21.391	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	90403	22.755	ug/l	99
90) Hexachlorobutadiene	13.78	225	51067	27.511	ug/l	99
91) Naphthalene	13.83	128	262011	20.679	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	90207	22.336	ug/l	99

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

