

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012519\
 Data File : VX007217.D
 Acq On : 25 Jan 2019 09:24
 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
 1/28/2019 12:05:03 PM

Quant Time: Jan 28 05:46:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X012519W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 25 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	84817	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	451398	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	408559	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	166249	25.79	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	85.97%
60) 4-Bromofluorobenzene	11.13	95	193180	28.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.83%
63) Toluene-d8	8.71	98	560677	30.74	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	68498	10.373	ug/l 99
3) Chloromethane	1.33	50	80870	11.803	ug/l 99
4) Vinyl Chloride	1.41	62	91548	13.070	ug/l 99
5) Bromomethane	1.64	94	95325	28.362	ug/l 95
6) Chloroethane	1.72	64	59806	14.872	ug/l 96
7) Trichlorofluoromethane	1.93	101	152622	17.106	ug/l 98
8) Diethyl Ether	2.19	74	58335	16.038	ug/l 86
9) 1,1,2-Trichlorotrifluoroet	2.39	101	88881	17.346	ug/l 96
10) 1,1-Dichloroethene	2.38	96	82543	17.007	ug/l 88
11) Methyl Iodide	2.51	142	132348	33.493	ug/l 95
12) Methyl Acetate	2.78	43	141575	14.466	ug/l 92
13) Acrolein	2.30	56	47268	52.275	ug/l 99
14) Acrylonitrile	3.15	53	271368	67.853	ug/l 100
15) Acetone	2.45	58	78798	58.942	ug/l 96
16) Carbon Disulfide	2.57	76	186751	13.119	ug/l 98
17) Allyl chloride	2.73	41	143453	13.292	ug/l 86
18) Methylene Chloride	2.86	84	97324	17.243	ug/l 91
19) trans-1,2-Dichloroethene	3.17	96	88138	16.998	ug/l 90
20) Diisopropyl ether	3.87	45	273140	14.844	ug/l # 94
21) 1,1-Dichloroethane	3.70	63	157048	15.490	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	99017	17.263	ug/l 89
23) tert-Butyl Alcohol	3.07	59	115120	62.363	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	290804	16.305	ug/l 100
25) Chloroform	5.21	83	161314	16.906	ug/l 98
26) Cyclohexane	5.58	56	127599	14.665	ug/l # 88
29) 1,1-Dichloropropene	5.80	75	114289	17.110	ug/l 96
30) 2-Butanone	4.70	43	356826	65.705	ug/l # 93
31) 2,2-Dichloropropane	4.59	77	112370	15.333	ug/l 96
32) 1,1,1-Trichloroethane	5.49	97	133015	17.323	ug/l 97
33) Carbon Tetrachloride	5.78	117	112917	16.744	ug/l 97
34) Benzene	6.14	78	355166	17.522	ug/l 97
35) Methacrylonitrile	5.06	41	70064	13.883	ug/l 96
36) 1,2-Dichloroethane	6.20	62	122035	16.712	ug/l 98
37) Trichloroethene	7.21	130	104093	19.496	ug/l 94
38) Methylcyclohexane	7.46	83	137846	17.382	ug/l 91
39) 1,2-Dichloropropane	7.52	63	87690	16.236	ug/l 96
40) Dibromomethane	7.66	93	62854	17.956	ug/l 100

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

41) Bromodichloromethane	7.90	83	106957	15.849	ug/l #	96
42) Vinyl Acetate	3.82	43	1139803	72.544	ug/l #	95
43) Ethyl Acetate	4.85	43	127631	14.247	ug/l	98
44) Isopropyl Acetate	6.46	43	192792	14.421	ug/l	97
45) 1,4-Dioxane	7.75	88	49372	313.464	ug/l	89
46) Methyl methacrylate	7.77	41	101657	14.656	ug/l	93
47) n-amyl Acetate	10.90	43	172831	14.012	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	113609	14.716	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	130528	15.598	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	95285	17.979	ug/l	96
51) Ethyl methacrylate	9.18	69	134367	15.975	ug/l	96
52) 1,3-Dichloropropane	9.37	76	152531	17.060	ug/l	98
53) Dibromochloromethane	9.58	129	92137	16.757	ug/l	99
54) 1,2-Dibromoethane	9.67	107	104387	18.900	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	381007	85.849	ug/l	98
56) Bromoform	10.85	173	67518	14.704	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	684579	74.627	ug/l	97
59) 2-Hexanone	9.49	43	540628	71.532	ug/l	100
61) Tetrachloroethene	9.34	164	117741	23.681	ug/l	97
62) Toluene	8.79	91	401405	18.695	ug/l	100
64) Chlorobenzene	10.14	112	263620	19.011	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	91019	18.057	ug/l	97
66) Ethyl Benzene	10.25	91	433055	18.474	ug/l	99
67) m/p-Xylenes	10.36	106	342029	37.474	ug/l	94
68) o-Xylene	10.69	106	167585	19.048	ug/l	93
69) Styrene	10.71	104	267491	18.081	ug/l	97
70) Isopropylbenzene	11.02	105	445708	18.919	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.27	83	143633	16.414	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	137263m	17.218	ug/l	
73) Bromobenzene	11.26	156	122482	18.913	ug/l	94
74) n-propylbenzene	11.36	91	500311	18.049	ug/l	97
75) 2-Chlorotoluene	11.42	91	298568	17.661	ug/l	96
76) 1,3,5-Trimethylbenzene	11.51	105	370655	18.234	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	33717	12.864	ug/l	91
78) 4-Chlorotoluene	11.51	91	344396	17.526	ug/l	97
79) tert-butylbenzene	12.06	119	395440	18.330	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	379224	18.293	ug/l	97
81) sec-Butylbenzene	11.94	105	448510	18.692	ug/l	98
82) p-Isopropyltoluene	12.06	119	395440	18.330	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	218192	18.220	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	220089	18.110	ug/l	99
85) n-Butylbenzene	12.39	91	325473	16.611	ug/l	98
86) Hexachloroethane	12.60	117	56868	16.003	ug/l	89
87) 1,2-Dichlorobenzene	12.39	146	216635	17.796	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.00	75	27550	13.625	ug/l	83
89) 1,2,4-Trichlorobenzene	13.65	180	144012	15.859	ug/l	100
90) Hexachlorobutadiene	13.78	225	68599	15.302	ug/l	99
91) Naphthalene	13.83	128	443740	15.715	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	145911	15.670	ug/l	98

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

