

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011520\
 Data File : VX014611.D
 Acq On : 15 Jan 2020 11:34
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 1/16/2020 9:42:01 AM

Quant Time: Jan 15 12:20:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:07:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	76827	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	422724	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	382541	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	161186	29.30	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.67%
60) 4-Bromofluorobenzene	11.13	95	187249	30.31	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.03%
63) Toluene-d8	8.71	98	518784	30.34	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	283882	73.149	ug/l 99
3) Chloromethane	1.32	50	305597	55.870	ug/l 95
4) Vinyl Chloride	1.40	62	346978	61.881	ug/l 100
5) Bromomethane	1.63	94	201849	49.245	ug/l 99
6) Chloroethane	1.72	64	187801	54.223	ug/l 97
7) Trichlorofluoromethane	1.92	101	368073	52.753	ug/l 98
8) Diethyl Ether	2.18	74	163348	50.934	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	2.37	101	216423	52.009	ug/l 98
10) 1,1-Dichloroethene	2.37	96	219901	51.114	ug/l 99
11) Methyl Iodide	2.50	142	310809	56.121	ug/l 98
12) Methyl Acetate	2.76	43	404541	60.741	ug/l 98
13) Acrolein	2.28	56	197888	244.976	ug/l 100
14) Acrylonitrile	3.13	53	681641	261.805	ug/l 99
15) Acetone	2.43	58	238089	311.289	ug/l 83
16) Carbon Disulfide	2.56	76	609565	52.303	ug/l 99
17) Allyl chloride	2.72	41	406751	52.615	ug/l 95
18) Methylene Chloride	2.85	84	252290	47.859	ug/l 96
19) trans-1,2-Dichloroethene	3.16	96	237208	50.351	ug/l 95
20) Diisopropyl ether	3.84	45	807120m	50.882	ug/l
21) 1,1-Dichloroethane	3.69	63	432638	50.253	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	268059	49.084	ug/l 97
23) tert-Butyl Alcohol	3.03	59	278549	272.761	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	731050	50.304	ug/l 99
25) Chloroform	5.20	83	418387	50.974	ug/l 98
26) Cyclohexane	5.57	56	404824	52.734	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	324491	53.142	ug/l 99
30) 2-Butanone	4.65	43	1030325	286.274	ug/l 99
31) 2,2-Dichloropropane	4.58	77	336736	59.618	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	352579	52.204	ug/l 99
33) Carbon Tetrachloride	5.78	117	304011	52.952	ug/l 100
34) Benzene	6.14	78	989577	51.975	ug/l 98
35) Methacrylonitrile	5.03	41	204506	52.832	ug/l 97
36) 1,2-Dichloroethane	6.18	62	333459	50.419	ug/l 99
37) Trichloroethene	7.21	130	268552	51.836	ug/l 98
38) Methylcyclohexane	7.46	83	405857	55.722	ug/l 99
39) 1,2-Dichloropropane	7.51	63	255783	51.725	ug/l 91
40) Dibromomethane	7.65	93	164679	52.130	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	323834	52.942	ug/l #	99
42) Vinyl Acetate	3.80	43	3116906	245.294	ug/l	99
43) Ethyl Acetate	4.82	43	368768	53.398	ug/l	100
44) Isopropyl Acetate	6.43	43	594777	51.422	ug/l	99
45) 1,4-Dioxane	7.73	88	121724	1123.779	ug/l	99
46) Methyl methacrylate	7.76	41	296410	52.758	ug/l	100
47) n-amyl Acetate	10.89	43	506700	49.267	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	357787	53.592	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	404886	53.928	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	251623	51.611	ug/l	99
51) Ethyl methacrylate	9.17	69	398843	51.431	ug/l	97
52) 1,3-Dichloropropane	9.37	76	422566	51.015	ug/l	98
53) Dibromochloromethane	9.57	129	259464	53.224	ug/l	100
54) 1,2-Dibromoethane	9.67	107	263360	52.466	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	891806	260.878	ug/l	100
56) Bromoform	10.85	173	199805	52.557	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	1893661	264.569	ug/l	99
59) 2-Hexanone	9.48	43	1489662	274.248	ug/l	99
61) Tetrachloroethene	9.33	164	301612	59.599	ug/l	98
62) Toluene	8.78	91	1059031	52.052	ug/l	100
64) Chlorobenzene	10.14	112	650854	51.061	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.21	131	243750	51.644	ug/l	99
66) Ethyl Benzene	10.25	91	1157588	51.990	ug/l	96
67) m/p-Xylenes	10.36	106	888423	104.380	ug/l	100
68) o-Xylene	10.70	106	438080	51.955	ug/l	98
69) Styrene	10.71	104	744426	51.916	ug/l	99
70) Isopropylbenzene	11.01	105	1140040	52.321	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	369485	47.816	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	317076m	46.099	ug/l	
73) Bromobenzene	11.25	156	293820	50.514	ug/l	100
74) n-propylbenzene	11.35	91	1317123	53.295	ug/l	98
75) 2-Chlorotoluene	11.42	91	770313	51.585	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	956233	51.733	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	129085	56.832	ug/l	91
78) 4-Chlorotoluene	11.51	91	875780	51.324	ug/l	98
79) tert-butylbenzene	11.76	119	871969	48.942	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	942583	50.999	ug/l	98
81) sec-Butylbenzene	11.94	105	1098199	51.822	ug/l	99
82) p-Isopropyltoluene	12.06	119	1007169	52.665	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	517882	51.081	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	513094	50.825	ug/l	100
85) n-Butylbenzene	12.39	91	891155	55.423	ug/l	100
86) Hexachloroethane	12.59	117	178808	51.540	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	519429	50.441	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	83056	53.927	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	356918	54.230	ug/l	100
90) Hexachlorobutadiene	13.78	225	171573	54.844	ug/l	97
91) Naphthalene	13.83	128	1096920	55.450	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	352399	52.789	ug/l	100

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

