

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011520\
 Data File : VX014613.D
 Acq On : 15 Jan 2020 12:20
 Operator : JC/SP
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 1/16/2020 9:42:10 AM

Quant Time: Jan 15 12:42:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:24:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	74621	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	427416	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	395252	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	158527	30.28	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.93%
60) 4-Bromofluorobenzene	11.13	95	193295	30.70	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.33%
63) Toluene-d8	8.71	98	521393	29.01	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	819299	161.255	ug/l 100
3) Chloromethane	1.31	50	869852	155.112	ug/l 96
4) Vinyl Chloride	1.40	62	992287	158.241	ug/l 100
5) Bromomethane	1.63	94	664345	173.106	ug/l 98
6) Chloroethane	1.70	64	528028	147.196	ug/l 98
7) Trichlorofluoromethane	1.92	101	1055379	150.437	ug/l 99
8) Diethyl Ether	2.18	74	471506	154.757	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	2.37	101	623725	152.351	ug/l 100
10) 1,1-Dichloroethene	2.36	96	645250	157.834	ug/l 97
11) Methyl Iodide	2.50	142	936036	174.475	ug/l 99
12) Methyl Acetate	2.76	43	1188727	161.805	ug/l 99
13) Acrolein	2.28	56	578312	734.825	ug/l 99
14) Acrylonitrile	3.13	53	2009153	796.646	ug/l 100
15) Acetone	2.44	58	658091	773.631	ug/l 91
16) Carbon Disulfide	2.56	76	1826014	163.943	ug/l 98
17) Allyl chloride	2.72	41	1196552	158.233	ug/l 99
18) Methylene Chloride	2.84	84	722014	149.181	ug/l 97
19) trans-1,2-Dichloroethene	3.16	96	690035	156.523	ug/l 98
20) Diisopropyl ether	3.84	45	2321980	154.418	ug/l 96
21) 1,1-Dichloroethane	3.69	63	1255724	153.540	ug/l 99
22) cis-1,2-Dichloroethene	4.59	96	795287	157.108	ug/l 98
23) tert-Butyl Alcohol	3.05	59	803179	763.293	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	2134082	156.600	ug/l 100
25) Chloroform	5.20	83	1206860	152.028	ug/l 97
26) Cyclohexane	5.57	56	1186566	158.279	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	948881	151.722	ug/l 99
30) 2-Butanone	4.66	43	2982203	751.293	ug/l 98
31) 2,2-Dichloropropane	4.58	77	1011748	151.060	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	1036731	149.370	ug/l 99
33) Carbon Tetrachloride	5.78	117	907667	153.080	ug/l 98
34) Benzene	6.14	78	2871437	147.809	ug/l 98
35) Methacrylonitrile	5.03	41	608363	154.279	ug/l 95
36) 1,2-Dichloroethane	6.18	62	970757	142.589	ug/l 99
37) Trichloroethene	7.21	130	791039	148.940	ug/l 97
38) Methylcyclohexane	7.46	83	1206481	155.774	ug/l 99
39) 1,2-Dichloropropane	7.51	63	750944	148.863	ug/l 92
40) Dibromomethane	7.65	93	486972	150.546	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	979262	155.643	ug/l	100
42) Vinyl Acetate	3.80	43	9094243	741.352	ug/l	100
43) Ethyl Acetate	4.82	43	1091275	152.276	ug/l	100
44) Isopropyl Acetate	6.43	43	1820004	158.792	ug/l	99
45) 1,4-Dioxane	7.73	88	327196	2779.297	ug/l	98
46) Methyl methacrylate	7.76	41	907572	161.621	ug/l	99
47) n-amyl Acetate	10.89	43	1649427	175.542	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	1144145	169.651	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	1231630	160.055	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	731053	148.026	ug/l	99
51) Ethyl methacrylate	9.17	69	1248923	166.406	ug/l	97
52) 1,3-Dichloropropane	9.37	76	1248240	149.463	ug/l	99
53) Dibromochloromethane	9.58	129	803325	161.995	ug/l	99
54) 1,2-Dibromoethane	9.67	107	774273	151.962	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	2644751	750.430	ug/l	100
56) Bromoform	10.85	173	653790	173.820	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	5586264	750.643	ug/l	98
59) 2-Hexanone	9.49	43	4424165	773.334	ug/l	99
61) Tetrachloroethene	9.33	164	866622	147.934	ug/l	96
62) Toluene	8.78	91	3079686	146.096	ug/l	99
64) Chlorobenzene	10.14	112	1972621	150.861	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.21	131	733373	152.111	ug/l	99
66) Ethyl Benzene	10.25	91	3479403	152.927	ug/l	98
67) m/p-Xylenes	10.35	106	2701390	311.039	ug/l	97
68) o-Xylene	10.70	106	1309549	154.669	ug/l	100
69) Styrene	10.71	104	2298374	161.711	ug/l	99
70) Isopropylbenzene	11.01	105	3407357	153.345	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	1160694	155.520	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	938356m	144.924	ug/l	
73) Bromobenzene	11.25	156	905355	153.797	ug/l	100
74) n-propylbenzene	11.35	91	3945059	155.901	ug/l	97
75) 2-Chlorotoluene	11.42	91	2303198	150.854	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	2906665	157.947	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	437501	185.015	ug/l	87
78) 4-Chlorotoluene	11.51	91	2687305	156.057	ug/l	97
79) tert-butylbenzene	11.76	119	2697423	156.313	ug/l	97
80) 1,2,4-Trimethylbenzene	11.80	105	2879254	156.584	ug/l	99
81) sec-Butylbenzene	11.94	105	3363265	157.818	ug/l	98
82) p-Isopropyltoluene	12.06	119	3113548	160.631	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	1621128	158.755	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	1600035	157.858	ug/l	99
85) n-Butylbenzene	12.39	91	2854454	170.493	ug/l	99
86) Hexachloroethane	12.59	117	587263	171.331	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	1611609	155.806	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.99	75	260306	165.415	ug/l	93
89) 1,2,4-Trichlorobenzene	13.64	180	1149808	172.025	ug/l	99
90) Hexachlorobutadiene	13.78	225	538105	158.241	ug/l	98
91) Naphthalene	13.83	128	3436440	169.839	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	1134057	165.220	ug/l	100

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

