

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111119\
 Data File : VX013371.D
 Acq On : 11 Nov 2019 18:02
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 11/12/2019 11:49:50 AM

Quant Time: Nov 12 01:16:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:01:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	108385	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	661906	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	599927	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	244728	29.19	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.30%
60) 4-Bromofluorobenzene	11.14	95	298843	29.12	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.07%
63) Toluene-d8	8.71	98	790602	29.63	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	1313930	168.893	ug/l 99
3) Chloromethane	1.31	50	1399682	195.571	ug/l 99
4) Vinyl Chloride	1.40	62	1598688	211.496	ug/l 99
5) Bromomethane	1.62	94	986161	249.485	ug/l 100
6) Chloroethane	1.70	64	843441	183.001	ug/l 100
7) Trichlorofluoromethane	1.91	101	1680927	152.090	ug/l 99
8) Diethyl Ether	2.18	74	775053	193.285	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.36	101	1009365	148.540	ug/l 100
10) 1,1-Dichloroethene	2.36	96	1053568	159.990	ug/l 99
11) Methyl Iodide	2.50	142	1452851	172.547	ug/l 99
12) Methyl Acetate	2.76	43	1881035	207.882	ug/l 97
13) Acrolein	2.28	56	953361	767.282	ug/l 99
14) Acrylonitrile	3.14	53	3409610	929.720	ug/l 98
15) Acetone	2.44	58	967946	800.382	ug/l 97
16) Carbon Disulfide	2.55	76	3018218	169.954	ug/l 100
17) Allyl chloride	2.71	41	1947837	180.463	ug/l 93
18) Methylene Chloride	2.84	84	1174099	154.727	ug/l 99
19) trans-1,2-Dichloroethene	3.15	96	1123694	160.912	ug/l 99
20) Diisopropyl ether	3.84	45	3694902	178.018	ug/l # 85
21) 1,1-Dichloroethane	3.68	63	2012522	162.752	ug/l 98
22) cis-1,2-Dichloroethene	4.58	96	1284757	161.645	ug/l 98
23) tert-Butyl Alcohol	3.05	59	1646573	875.774	ug/l 100
24) Methyl tert-Butyl Ether	3.19	73	3489263	154.451	ug/l 100
25) Chloroform	5.20	83	1954752	152.398	ug/l 100
26) Cyclohexane	5.57	56	1829222	167.463	ug/l # 99
29) 1,1-Dichloropropene	5.79	75	1549220	153.618	ug/l 99
30) 2-Butanone	4.66	43	4969498	885.769	ug/l 99
31) 2,2-Dichloropropane	4.57	77	1646299	141.499	ug/l 99
32) 1,1,1-Trichloroethane	5.48	97	1712121	141.369	ug/l 99
33) Carbon Tetrachloride	5.78	117	1500210	143.530	ug/l 100
34) Benzene	6.13	78	4580141	155.359	ug/l 99
35) Methacrylonitrile	5.03	41	1031571	180.482	ug/l 97
36) 1,2-Dichloroethane	6.18	62	1601010	145.694	ug/l 100
37) Trichloroethene	7.20	130	1267598	156.239	ug/l 96
38) Methylcyclohexane	7.46	83	1874857	150.806	ug/l 99
39) 1,2-Dichloropropane	7.51	63	1178744	161.422	ug/l 97
40) Dibromomethane	7.65	93	789135	153.320	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	1593370	153.875	ug/l	97
42) Vinyl Acetate	3.80	43	15429228	814.983	ug/l	99
43) Ethyl Acetate	4.82	43	1869431	182.131	ug/l	97
44) Isopropyl Acetate	6.43	43	3044927	180.528	ug/l	99
45) 1,4-Dioxane	7.73	88	683360	3313.096	ug/l	98
46) Methyl methacrylate	7.76	41	1535472	184.928	ug/l	99
47) n-amyl Acetate	10.89	43	2809568	194.773	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	1867518	164.181	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	1978417	159.513	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	1187898	155.719	ug/l	98
51) Ethyl methacrylate	9.17	69	2056783	171.102	ug/l	99
52) 1,3-Dichloropropane	9.37	76	2005442	155.863	ug/l	99
53) Dibromochloromethane	9.58	129	1320229	161.145	ug/l	98
54) 1,2-Dibromoethane	9.67	107	1272743	156.330	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	4106315	824.727	ug/l	100
56) Bromoform	10.85	173	1117101	188.035	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	9369094	895.658	ug/l	97
59) 2-Hexanone	9.49	43	7486825	908.574	ug/l	97
61) Tetrachloroethene	9.33	164	1084789	141.241	ug/l	97
62) Toluene	8.78	91	4900301	151.461	ug/l	99
64) Chlorobenzene	10.14	112	3175827	154.216	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	1203872	156.603	ug/l	99
66) Ethyl Benzene	10.25	91	5505300	149.136	ug/l	99
67) m/p-Xylenes	10.35	106	4294803	306.474	ug/l	95
68) o-Xylene	10.70	106	2101237	155.929	ug/l	96
69) Styrene	10.71	104	3641412	157.918	ug/l	98
70) Isopropylbenzene	11.01	105	5360337	146.427	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.26	83	2011203	173.205	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	1797933m	186.758	ug/l	
73) Bromobenzene	11.25	156	1475054	164.482	ug/l	97
74) n-propylbenzene	11.35	91	6205736	153.403	ug/l	98
75) 2-Chlorotoluene	11.42	91	3705180	147.965	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	4665189	151.187	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	751896	192.264	ug/l	94
78) 4-Chlorotoluene	11.51	91	4335764	151.163	ug/l	98
79) tert-butylbenzene	11.77	119	4778972	158.588	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	4664491	151.470	ug/l	100
81) sec-Butylbenzene	11.94	105	5434232	154.090	ug/l	99
82) p-Isopropyltoluene	12.06	119	5037035	155.549	ug/l	98
83) 1,3-Dichlorobenzene	12.03	146	2674801	164.965	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	2641316	164.684	ug/l	100
85) n-Butylbenzene	12.39	91	4559473	165.263	ug/l	98
86) Hexachloroethane	12.59	117	995427	175.290	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	2638314	167.315	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	481501	174.360	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	1929457	192.135	ug/l	98
90) Hexachlorobutadiene	13.78	225	887585	174.866	ug/l	98
91) Naphthalene	13.83	128	6035948	185.835	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	1905437	185.466	ug/l	99

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

