

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111119\
 Data File : VX013367.D
 Acq On : 11 Nov 2019 16:29
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 11/12/2019 11:49:34 AM

Quant Time: Nov 12 01:08:32 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	5.00	128	126917	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	714641	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	631942	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	275580	28.08	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	93.60%
60) 4-Bromofluorobenzene	11.13	95	301194	27.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.87%
63) Toluene-d8	8.71	98	879564	31.29	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	40137	4.406	ug/l 93
3) Chloromethane	1.31	50	47854	5.710	ug/l 99
4) Vinyl Chloride	1.40	62	52289	5.907	ug/l 99
5) Bromomethane	1.62	94	36122	7.804	ug/l 97
6) Chloroethane	1.71	64	33689	6.242	ug/l 95
7) Trichlorofluoromethane	1.92	101	64131	4.955	ug/l 98
8) Diethyl Ether	2.17	74	28536	6.077	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	37475	4.710	ug/l 94
10) 1,1-Dichloroethene	2.36	96	37863	4.910	ug/l 98
11) Methyl Iodide	2.50	142	37393	3.793	ug/l 97
12) Methyl Acetate	2.76	43	62411	5.890	ug/l 96
13) Acrolein	2.28	56	37975	26.100	ug/l 90
14) Acrylonitrile	3.12	53	120980	28.172	ug/l 100
15) Acetone	2.43	58	35854	25.318	ug/l 97
16) Carbon Disulfide	2.56	76	101319	4.872	ug/l 99
17) Allyl chloride	2.72	41	67603	5.349	ug/l 98
18) Methylene Chloride	2.84	84	46358	5.217	ug/l 93
19) trans-1,2-Dichloroethene	3.15	96	41216	5.040	ug/l 96
20) Diisopropyl ether	3.84	45	137281	5.648	ug/l 94
21) 1,1-Dichloroethane	3.69	63	74231	5.126	ug/l 96
22) cis-1,2-Dichloroethene	4.58	96	46583	5.005	ug/l 97
23) tert-Butyl Alcohol	3.03	59	63856	29.004	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	125543	4.746	ug/l 97
25) Chloroform	5.20	83	75415	5.021	ug/l 99
26) Cyclohexane	5.56	56	68629	5.365	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	55526	5.100	ug/l 88
30) 2-Butanone	4.65	43	176755	29.180	ug/l 99
31) 2,2-Dichloropropane	4.57	77	58821	4.683	ug/l 99
32) 1,1,1-Trichloroethane	5.48	97	60380	4.618	ug/l 98
33) Carbon Tetrachloride	5.77	117	51352	4.550	ug/l 96
34) Benzene	6.13	78	167625	5.266	ug/l 98
35) Methacrylonitrile	5.03	41	32964	5.342	ug/l 94
36) 1,2-Dichloroethane	6.18	62	60002	5.057	ug/l 99
37) Trichloroethene	7.21	130	44382	5.067	ug/l 96
38) Methylcyclohexane	7.45	83	67850	5.055	ug/l 98
39) 1,2-Dichloropropane	7.50	63	43574	5.527	ug/l 100
40) Dibromomethane	7.65	93	29769	5.357	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	53336	4.771	ug/l	98
42) Vinyl Acetate	3.80	43	581751	28.461	ug/l	99
43) Ethyl Acetate	4.82	43	63593	5.738	ug/l	98
44) Isopropyl Acetate	6.43	43	103127	5.663	ug/l	98
45) 1,4-Dioxane	7.73	88	22683	101.858	ug/l	98
46) Methyl methacrylate	7.76	41	50178	5.597	ug/l	98
47) n-amyl Acetate	10.89	43	83196	5.342	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	57523	4.684	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	63110	4.713	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	42428	5.151	ug/l	97
51) Ethyl methacrylate	9.17	69	65595	5.054	ug/l	96
52) 1,3-Dichloropropane	9.37	76	73413	5.285	ug/l	99
53) Dibromochloromethane	9.57	129	41125	4.649	ug/l	99
54) 1,2-Dibromoethane	9.67	107	45027	5.123	ug/l	95
55) 2-Chloroethyl vinyl ether	8.30	63	157590	29.315	ug/l	99
56) Bromoform	10.85	173	30972	4.829	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	329694	29.921	ug/l	100
59) 2-Hexanone	9.48	43	257168	29.628	ug/l	99
61) Tetrachloroethene	9.33	164	42538	5.258	ug/l	99
62) Toluene	8.78	91	184232	5.406	ug/l	99
64) Chlorobenzene	10.14	112	112390	5.181	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	41037	5.068	ug/l	97
66) Ethyl Benzene	10.25	91	196586	5.056	ug/l	99
67) m/p-Xylenes	10.35	106	152449	10.328	ug/l	98
68) o-Xylene	10.69	106	71834	5.061	ug/l	98
69) Styrene	10.71	104	117557	4.840	ug/l	98
70) Isopropylbenzene	11.01	105	194420	5.042	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	67058	5.482	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	54854m	5.409	ug/l	
73) Bromobenzene	11.25	156	50732	5.370	ug/l	99
74) n-propylbenzene	11.35	91	215614	5.060	ug/l	99
75) 2-Chlorotoluene	11.42	91	132168	5.011	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	159034	4.893	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	18661	4.530	ug/l	97
78) 4-Chlorotoluene	11.51	91	147941	4.897	ug/l	99
79) tert-butylbenzene	11.76	119	157442	4.960	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	157679	4.861	ug/l	99
81) sec-Butylbenzene	11.94	105	180855	4.868	ug/l	100
82) p-Isopropyltoluene	12.06	119	164278	4.816	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	87597	5.129	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	87363	5.171	ug/l	99
85) n-Butylbenzene	12.38	91	132520	4.560	ug/l	99
86) Hexachloroethane	12.59	117	28351	4.740	ug/l	98
87) 1,2-Dichlorobenzene	12.38	146	87557	5.271	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	12.99	75	13594	4.673	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	54457	5.148	ug/l	97
90) Hexachlorobutadiene	13.78	225	28545	5.339	ug/l	96
91) Naphthalene	13.83	128	167258	4.889	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	56882	5.256	ug/l	97

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

