

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101520\
 Data File : VX018936.D
 Acq On : 15 Oct 2020 14:48
 Operator : JC/SP
 Sample : VSTDIC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 Client Sample ID :
 VSTDIC100

Manual Integrations
 APPROVED

apatel
 10/16/2020 2:11:34 PM

Quant Time: Oct 15 15:30:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 15 14:34:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	52596	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	287331	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	253403	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	99530	24.98	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	83.27%
60) 4-Bromofluorobenzene	11.12	95	119904	27.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.87%
63) Toluene-d8	8.70	98	332477	30.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	261547	96.286	ug/l 98
3) Chloromethane	1.31	50	280541	94.600	ug/l 100
4) Vinyl Chloride	1.39	62	360127	113.593	ug/l 100
5) Bromomethane	1.62	94	168193	79.817	ug/l 99
6) Chloroethane	1.70	64	245727	125.407	ug/l 97
7) Trichlorofluoromethane	1.91	101	560764	105.926	ug/l 100
8) Diethyl Ether	2.17	74	226633	130.260	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.36	101	310027	112.825	ug/l 100
10) 1,1-Dichloroethene	2.35	96	325597	119.587	ug/l 98
11) Methyl Iodide	2.49	142	428345	140.570	ug/l 97
12) Methyl Acetate	2.75	43	329510	96.864	ug/l 95
13) Acrolein	2.28	56	323036	974.970	ug/l 98
14) Acrylonitrile	3.12	53	758638	490.409	ug/l 99
15) Acetone	2.42	58	224386	502.760	ug/l 100
16) Carbon Disulfide	2.54	76	796965	104.081	ug/l 99
17) Allyl chloride	2.70	41	425429	92.477	ug/l 99
18) Methylene Chloride	2.83	84	319155	103.137	ug/l 98
19) trans-1,2-Dichloroethene	3.14	96	327797	110.332	ug/l 98
20) Diisopropyl ether	3.82	45	793927	88.555	ug/l 94
21) 1,1-Dichloroethane	3.67	63	536894	101.237	ug/l 100
22) cis-1,2-Dichloroethene	4.56	96	377382	114.953	ug/l 98
23) tert-Butyl Alcohol	3.03	59	403363	566.160	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	909967	98.119	ug/l 100
25) Chloroform	5.18	83	570288	100.821	ug/l 95
26) Cyclohexane	5.54	56	429080	99.477	ug/l # 99
29) 1,1-Dichloropropene	5.77	75	436901	100.570	ug/l 99
30) 2-Butanone	4.64	43	1101268	472.615	ug/l 99
31) 2,2-Dichloropropane	4.55	77	510345	97.803	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	530732	95.026	ug/l 99
33) Carbon Tetrachloride	5.75	117	486053	93.799	ug/l 98
34) Benzene	6.11	78	1297445	104.481	ug/l 99
35) Methacrylonitrile	5.01	41	228060	92.662	ug/l 97
36) 1,2-Dichloroethane	6.16	62	428451	86.273	ug/l 99
37) Trichloroethene	7.19	130	383715	105.915	ug/l 97
38) Methylcyclohexane	7.44	83	497377	105.239	ug/l 98
39) 1,2-Dichloropropane	7.49	63	318173	97.312	ug/l 96
40) Dibromomethane	7.64	93	232376	97.941	ug/l 96

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

41) Bromodichloromethane	7.87	83	472540	96.145	ug/l	99
42) Vinyl Acetate	3.79	43	3944261	456.608	ug/l	100
43) Ethyl Acetate	4.79	43	444495	95.780	ug/l	99
44) Isopropyl Acetate	6.42	43	724388	95.820	ug/l #	100
45) 1,4-Dioxane	7.71	88	156239	2338.057	ug/l	96
46) Methyl methacrylate	7.74	41	340209	91.601	ug/l	97
47) n-amyl Acetate	10.88	43	604849	90.590	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	537778	100.288	ug/l	97
49) cis-1,3-Dichloropropene	8.42	75	575087	102.214	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	331599	99.181	ug/l	98
51) Ethyl methacrylate	9.16	69	522711	105.642	ug/l	99
52) 1,3-Dichloropropane	9.35	76	542948	97.934	ug/l	100
53) Dibromochloromethane	9.57	129	395924	95.172	ug/l	100
54) 1,2-Dibromoethane	9.65	107	361920	98.262	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	1380960	536.331	ug/l	99
56) Bromoform	10.84	173	320249	101.114	ug/l	100
58) 4-Methyl-2-Pentanone	8.62	43	2126174	500.813	ug/l	100
59) 2-Hexanone	9.48	43	1613027	498.029	ug/l	100
61) Tetrachloroethene	9.32	164	328748	105.412	ug/l	99
62) Toluene	8.77	91	1421208	111.178	ug/l	100
64) Chlorobenzene	10.12	112	896244	108.894	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.20	131	351360	106.049	ug/l	99
66) Ethyl Benzene	10.24	91	1571705	110.268	ug/l	97
67) m/p-Xylenes	10.34	106	1243715	227.983	ug/l	99
68) o-Xylene	10.68	106	583806	112.530	ug/l	100
69) Styrene	10.70	104	1021027	113.638	ug/l	99
70) Isopropylbenzene	11.00	105	1553901	108.888	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	494466	108.041	ug/l	100
72) 1,2,3-Trichloropropane	11.28	75	454857m	103.698	ug/l	
73) Bromobenzene	11.24	156	412696	106.983	ug/l	98
74) n-propylbenzene	11.34	91	1753986	104.979	ug/l	99
75) 2-Chlorotoluene	11.40	91	1031113	102.887	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	1331193	107.824	ug/l	98
77) t-1,4-Dichloro-2-butene	11.06	75	200482	114.032	ug/l	98
78) 4-Chlorotoluene	11.49	91	1216068	101.987	ug/l	100
79) tert-butylbenzene	11.76	119	1325135	110.441	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	1304642	107.031	ug/l	99
81) sec-Butylbenzene	11.93	105	1535388	109.746	ug/l	100
82) p-Isopropyltoluene	12.05	119	1418263	108.646	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	731124	106.807	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	740300	108.121	ug/l	99
85) n-Butylbenzene	12.37	91	1289776	111.954	ug/l	99
86) Hexachloroethane	12.58	117	243546	97.246	ug/l	92
87) 1,2-Dichlorobenzene	12.37	146	708373	109.625	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	121557	103.750	ug/l	99
89) 1,2,4-Trichlorobenzene	13.63	180	538552	121.393	ug/l	99
90) Hexachlorobutadiene	13.76	225	221504	119.523	ug/l	98
91) Naphthalene	13.82	128	1739341	124.080	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	523305	119.341	ug/l	99

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

