

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX121219\
 Data File : VX013992.D
 Acq On : 12 Dec 2019 22:58
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

apatel
 12/13/2019 11:25:39 AM

Quant Time: Dec 13 01:26:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:15:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	88733	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	499484	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	448276	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	191798	29.22	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.40%
60) 4-Bromofluorobenzene	11.13	95	216536	29.95	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.83%
63) Toluene-d8	8.71	98	617082	30.41	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	86806	13.918	ug/l 100
3) Chloromethane	1.32	50	126947	17.805	ug/l 100
4) Vinyl Chloride	1.40	62	126039	15.905	ug/l 100
5) Bromomethane	1.63	94	90122	17.975	ug/l 100
6) Chloroethane	1.70	64	76704	17.232	ug/l 100
7) Trichlorofluoromethane	1.92	101	157971	17.946	ug/l 100
8) Diethyl Ether	2.18	74	72483	18.003	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	92891	17.643	ug/l 100
10) 1,1-Dichloroethene	2.36	96	95782	17.645	ug/l 100
11) Methyl Iodide	2.50	142	117336	17.356	ug/l 100
12) Methyl Acetate	2.76	43	151922	16.272	ug/l 100
13) Acrolein	2.28	56	98353	95.696	ug/l 100
14) Acrylonitrile	3.13	53	290792	84.015	ug/l 100
15) Acetone	2.44	58	83925	82.872	ug/l 100
16) Carbon Disulfide	2.56	76	253630	16.862	ug/l 100
17) Allyl chloride	2.72	41	174050	17.469	ug/l 100
18) Methylene Chloride	2.84	84	118782	18.918	ug/l 100
19) trans-1,2-Dichloroethene	3.15	96	104659	17.939	ug/l 100
20) Diisopropyl ether	3.84	45	362096	18.605	ug/l 100
21) 1,1-Dichloroethane	3.69	63	193715	18.327	ug/l 100
22) cis-1,2-Dichloroethene	4.59	96	122370	18.314	ug/l 100
23) tert-Butyl Alcohol	3.05	59	115707	70.838	ug/l 100
24) Methyl tert-Butyl Ether	3.19	73	328536	18.181	ug/l 100
25) Chloroform	5.20	83	187296	18.161	ug/l 100
26) Cyclohexane	5.57	56	174666	18.184	ug/l # 100
29) 1,1-Dichloropropene	5.79	75	139935	18.395	ug/l 100
30) 2-Butanone	4.66	43	409477	84.423	ug/l 100
31) 2,2-Dichloropropane	4.57	77	130055	16.309	ug/l 100
32) 1,1,1-Trichloroethane	5.48	97	153096	18.235	ug/l 100
33) Carbon Tetrachloride	5.78	117	130319	17.960	ug/l 100
34) Benzene	6.13	78	443115	19.163	ug/l 100
35) Methacrylonitrile	5.03	41	90607	18.246	ug/l 100
36) 1,2-Dichloroethane	6.18	62	149567	18.603	ug/l 100
37) Trichloroethene	7.21	130	118468	19.048	ug/l 100
38) Methylcyclohexane	7.46	83	165893	17.934	ug/l 100
39) 1,2-Dichloropropane	7.51	63	114137	19.052	ug/l 100
40) Dibromomethane	7.65	93	73045	18.479	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	137458	17.951	ug/l	100
42) Vinyl Acetate	3.80	43	1493147	94.480	ug/l	100
43) Ethyl Acetate	4.83	43	158337	17.622	ug/l	100
44) Isopropyl Acetate	6.43	43	259067	17.779	ug/l	100
45) 1,4-Dioxane	7.73	88	52388	330.159	ug/l	100
46) Methyl methacrylate	7.76	41	127753	17.603	ug/l	100
47) n-amyl Acetate	10.89	43	229019	17.799	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	143751	16.782	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	166356	17.659	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	113058	19.219	ug/l	100
51) Ethyl methacrylate	9.17	69	173471	17.961	ug/l	100
52) 1,3-Dichloropropane	9.37	76	193558	19.231	ug/l	100
53) Dibromochloromethane	9.57	129	107558	17.449	ug/l	100
54) 1,2-Dibromoethane	9.67	107	114362	18.358	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	395191	95.619	ug/l	100
56) Bromoform	10.85	173	80693	16.512	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	831549	90.277	ug/l	100
59) 2-Hexanone	9.49	43	625707	86.794	ug/l	100
61) Tetrachloroethene	9.33	164	113096	20.148	ug/l	100
62) Toluene	8.78	91	473520	19.054	ug/l	100
64) Chlorobenzene	10.14	112	296089	18.956	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	105994	18.261	ug/l	100
66) Ethyl Benzene	10.25	91	514254	18.814	ug/l	100
67) m/p-Xylenes	10.35	106	395184	37.446	ug/l	100
68) o-Xylene	10.70	106	194451	18.995	ug/l	100
69) Styrene	10.71	104	323038	18.595	ug/l	100
70) Isopropylbenzene	11.01	105	503132	18.785	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	178905	18.672	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	160372m	19.336	ug/l	
73) Bromobenzene	11.25	156	132256	18.658	ug/l	100
74) n-propylbenzene	11.35	91	564231	18.537	ug/l	100
75) 2-Chlorotoluene	11.42	91	344040	18.925	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	422850	18.741	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	46708	14.751	ug/l	100
78) 4-Chlorotoluene	11.51	91	388768	18.655	ug/l	100
79) tert-butylbenzene	11.76	119	408371	18.091	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	423129	18.783	ug/l	100
81) sec-Butylbenzene	11.94	105	479145	18.459	ug/l	100
82) p-Isopropyltoluene	12.06	119	429671	18.062	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	225527	18.120	ug/l	100
84) 1,4-Dichlorobenzene	12.09	146	225984	18.268	ug/l	100
85) n-Butylbenzene	12.39	91	346618	16.996	ug/l	100
86) Hexachloroethane	12.59	117	72332	16.657	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	229048	18.416	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.99	75	34708	16.414	ug/l	100
89) 1,2,4-Trichlorobenzene	13.64	180	139660	16.543	ug/l	100
90) Hexachlorobutadiene	13.78	225	69514	17.108	ug/l	100
91) Naphthalene	13.83	128	423404	16.007	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	142013	16.682	ug/l	100

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

