

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022820\
 Data File : VX015059.D
 Acq On : 28 Feb 2020 15:44
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 3/2/2020 11:09:30 AM

Quant Time: Feb 29 00:22:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X022120W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 00:37:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	75071	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	390354	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	335455	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	147853	28.32	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.40%
60) 4-Bromofluorobenzene	11.13	95	168002	32.16	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	107.20%
63) Toluene-d8	8.70	98	471132	32.21	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	107.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	58668	17.501	ug/l 99
3) Chloromethane	1.32	50	84096	19.401	ug/l 98
4) Vinyl Chloride	1.41	62	86017	18.438	ug/l 100
5) Bromomethane	1.64	94	55807	17.082	ug/l 99
6) Chloroethane	1.72	64	57052	18.257	ug/l 99
7) Trichlorofluoromethane	1.93	101	114704	16.894	ug/l 100
8) Diethyl Ether	2.18	74	51018	17.862	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.38	101	72523	18.475	ug/l 99
10) 1,1-Dichloroethene	2.37	96	70263	17.804	ug/l 96
11) Methyl Iodide	2.50	142	71871	14.988	ug/l 100
12) Methyl Acetate	2.76	43	94169	19.176	ug/l 96
13) Acrolein	2.28	56	82011	83.971	ug/l 99
14) Acrylonitrile	3.12	53	219719	99.072	ug/l 98
15) Acetone	2.42	58	65144	82.078	ug/l 92
16) Carbon Disulfide	2.56	76	186700	17.595	ug/l 100
17) Allyl chloride	2.72	41	134061	19.529	ug/l 93
18) Methylene Chloride	2.85	84	85395	18.781	ug/l 99
19) trans-1,2-Dichloroethene	3.16	96	79412	18.320	ug/l 98
20) Diisopropyl ether	3.84	45	271232	19.346	ug/l 95
21) 1,1-Dichloroethane	3.69	63	146507	19.063	ug/l 100
22) cis-1,2-Dichloroethene	4.58	96	89161	17.975	ug/l 93
23) tert-Butyl Alcohol	3.01	59	76428	86.936	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	247304	18.836	ug/l 97
25) Chloroform	5.19	83	144530	18.649	ug/l 98
26) Cyclohexane	5.57	56	128237	18.670	ug/l 98
29) 1,1-Dichloropropene	5.78	75	109444	19.822	ug/l 99
30) 2-Butanone	4.65	43	301210	94.514	ug/l 100
31) 2,2-Dichloropropane	4.57	77	115747	19.092	ug/l 99
32) 1,1,1-Trichloroethane	5.48	97	121471	19.373	ug/l 98
33) Carbon Tetrachloride	5.77	117	105433	19.209	ug/l 95
34) Benzene	6.13	78	331501	19.898	ug/l 98
35) Methacrylonitrile	5.01	41	64949	19.979	ug/l 97
36) 1,2-Dichloroethane	6.17	62	116922	19.827	ug/l 98
37) Trichloroethene	7.20	130	93218	19.928	ug/l 93
38) Methylcyclohexane	7.45	83	134418	19.641	ug/l 99
39) 1,2-Dichloropropane	7.50	63	86654	20.206	ug/l 98
40) Dibromomethane	7.65	93	55599	19.416	ug/l 97

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	111259	19.669	ug/l	97
42) Vinyl Acetate	3.80	43	1134743	101.160	ug/l	99
43) Ethyl Acetate	4.81	43	116900	20.273	ug/l	96
44) Isopropyl Acetate	6.42	43	188846	19.481	ug/l	99
45) 1,4-Dioxane	7.72	88	32818	366.390	ug/l	96
46) Methyl methacrylate	7.76	41	93152	19.424	ug/l	99
47) n-amyl Acetate	10.89	43	154669	18.418	ug/l	98
48) t-1,3-Dichloropropene	9.03	75	117443	18.713	ug/l	94
49) cis-1,3-Dichloropropene	8.43	75	135919	19.672	ug/l	97
50) 1,1,2-Trichloroethane	9.20	97	84604	19.831	ug/l	99
51) Ethyl methacrylate	9.17	69	123119	18.698	ug/l	96
52) 1,3-Dichloropropane	9.36	76	142512	19.746	ug/l	99
53) Dibromochloromethane	9.57	129	86528	18.759	ug/l	99
54) 1,2-Dibromoethane	9.67	107	86747	19.151	ug/l	100
55) 2-Chloroethyl vinyl ether	8.30	63	349351	99.599	ug/l	98
56) Bromoform	10.85	173	66946	18.515	ug/l	99
58) 4-Methyl-2-Pentanone	8.63	43	587220	106.812	ug/l	100
59) 2-Hexanone	9.48	43	424659	98.861	ug/l	99
61) Tetrachloroethene	9.33	164	95013	21.088	ug/l	99
62) Toluene	8.78	91	349433	20.337	ug/l	100
64) Chlorobenzene	10.13	112	213845	19.498	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	77529	19.085	ug/l	98
66) Ethyl Benzene	10.25	91	370098	19.553	ug/l	98
67) m/p-Xylenes	10.35	106	292612	40.091	ug/l	98
68) o-Xylene	10.69	106	144320	20.436	ug/l	98
69) Styrene	10.70	104	245127	20.324	ug/l	98
70) Isopropylbenzene	11.01	105	393535	20.979	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	128559	21.285	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	109001m	21.757	ug/l	
73) Bromobenzene	11.25	156	103789	20.477	ug/l	98
74) n-propylbenzene	11.35	91	448046	20.986	ug/l	99
75) 2-Chlorotoluene	11.42	91	264600	20.972	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	321833	20.471	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	38143	18.881	ug/l	99
78) 4-Chlorotoluene	11.50	91	302178	20.705	ug/l	100
79) tert-butylbenzene	11.76	119	314126	20.682	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	326178	20.869	ug/l	98
81) sec-Butylbenzene	11.94	105	387683	21.314	ug/l	100
82) p-Isopropyltoluene	12.06	119	352642	20.869	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	181979	20.481	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	180299	20.151	ug/l	97
85) n-Butylbenzene	12.38	91	299944	20.398	ug/l	99
86) Hexachloroethane	12.59	117	60415	19.780	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	180617	20.428	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	25863	19.662	ug/l	100
89) 1,2,4-Trichlorobenzene	13.64	180	123307	19.393	ug/l	100
90) Hexachlorobutadiene	13.78	225	64622	20.465	ug/l	98
91) Naphthalene	13.83	128	345547	19.196	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	124750	19.762	ug/l	99

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

