

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112219\
 Data File : VX013521.D
 Acq On : 22 Nov 2019 10:02
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 11/25/2019 10:40:39 AM

Quant Time: Nov 22 14:13:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	129293	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	730760	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	646204	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	272498	28.54	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.13%
60) 4-Bromofluorobenzene	11.13	95	312393	30.08	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.27%
63) Toluene-d8	8.71	98	894388	30.61	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.03%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	187034	19.307	ug/l 99
3) Chloromethane	1.32	50	195406	18.508	ug/l 99
4) Vinyl Chloride	1.40	62	228503	19.047	ug/l 100
5) Bromomethane	1.63	94	121953	16.910	ug/l 98
6) Chloroethane	1.72	64	119532	18.126	ug/l 98
7) Trichlorofluoromethane	1.92	101	244453	18.928	ug/l 96
8) Diethyl Ether	2.17	74	110744	18.780	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	155205	19.974	ug/l 99
10) 1,1-Dichloroethene	2.36	96	149860	18.767	ug/l 97
11) Methyl Iodide	2.50	142	153415	15.560	ug/l 100
12) Methyl Acetate	2.76	43	256497	18.331	ug/l 98
13) Acrolein	2.28	56	123459	83.065	ug/l 99
14) Acrylonitrile	3.12	53	454765	88.385	ug/l 97
15) Acetone	2.43	58	155117	99.540	ug/l 95
16) Carbon Disulfide	2.56	76	406151	18.236	ug/l 100
17) Allyl chloride	2.72	41	270231	18.377	ug/l 96
18) Methylene Chloride	2.84	84	167619	18.501	ug/l 98
19) trans-1,2-Dichloroethene	3.15	96	162368	19.026	ug/l 98
20) Diisopropyl ether	3.84	45	532825	18.834	ug/l 91
21) 1,1-Dichloroethane	3.69	63	286504	18.593	ug/l 98
22) cis-1,2-Dichloroethene	4.58	96	186085	19.126	ug/l 97
23) tert-Butyl Alcohol	3.02	59	207346	83.737	ug/l 100
24) Methyl tert-Butyl Ether	3.18	73	491584	18.601	ug/l 100
25) Chloroform	5.20	83	283224	18.778	ug/l 96
26) Cyclohexane	5.56	56	265945	19.005	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	217316	19.470	ug/l 99
30) 2-Butanone	4.65	43	707160	95.987	ug/l 99
31) 2,2-Dichloropropane	4.57	77	238972	19.770	ug/l 100
32) 1,1,1-Trichloroethane	5.48	97	236958	19.100	ug/l 99
33) Carbon Tetrachloride	5.77	117	204658	18.992	ug/l 99
34) Benzene	6.13	78	656161	19.381	ug/l 99
35) Methacrylonitrile	5.03	41	138275	18.795	ug/l 97
36) 1,2-Dichloroethane	6.18	62	222387	18.767	ug/l 100
37) Trichloroethene	7.20	130	181314	19.991	ug/l 96
38) Methylcyclohexane	7.45	83	274370	20.048	ug/l 99
39) 1,2-Dichloropropane	7.50	63	166070	18.971	ug/l 98
40) Dibromomethane	7.65	93	109156	18.737	ug/l 98

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

41) Bromodichloromethane	7.89	83	216364	19.025	ug/l	96
42) Vinyl Acetate	3.80	43	2204779	95.055	ug/l	100
43) Ethyl Acetate	4.81	43	248732	18.511	ug/l #	83
44) Isopropyl Acetate	6.43	43	398632	18.456	ug/l	98
45) 1,4-Dioxane	7.73	88	83533	350.297	ug/l	98
46) Methyl methacrylate	7.76	41	197222	18.357	ug/l	98
47) n-amyl Acetate	10.89	43	341343	18.017	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	238582	18.709	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	264599	18.936	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	171017	19.838	ug/l	95
51) Ethyl methacrylate	9.17	69	266457	18.773	ug/l	97
52) 1,3-Dichloropropane	9.36	76	282073	19.140	ug/l	99
53) Dibromochloromethane	9.57	129	170451	18.656	ug/l	99
54) 1,2-Dibromoethane	9.67	107	175465	19.035	ug/l	98
55) 2-Chloroethyl vinyl ether	8.30	63	538172	88.738	ug/l	99
56) Bromoform	10.85	173	130809	17.990	ug/l	100
58) 4-Methyl-2-Pentanone	8.63	43	1262721	93.539	ug/l	99
59) 2-Hexanone	9.48	43	1006233	94.207	ug/l	99
61) Tetrachloroethene	9.33	164	162815	20.432	ug/l	98
62) Toluene	8.78	91	708063	19.671	ug/l	100
64) Chlorobenzene	10.14	112	440789	19.585	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	163556	19.414	ug/l	98
66) Ethyl Benzene	10.25	91	780000	19.725	ug/l	100
67) m/p-Xylenes	10.35	106	594407	38.968	ug/l	98
68) o-Xylene	10.70	106	292280	19.855	ug/l	96
69) Styrene	10.71	104	487633	19.399	ug/l	99
70) Isopropylbenzene	11.01	105	772246	19.908	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	264082	19.014	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	214929m	18.327	ug/l	
73) Bromobenzene	11.25	156	199778	19.529	ug/l	98
74) n-propylbenzene	11.35	91	876813	19.890	ug/l	100
75) 2-Chlorotoluene	11.42	91	518282	19.771	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	649399	19.917	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	84400	17.799	ug/l	99
78) 4-Chlorotoluene	11.51	91	582509	19.395	ug/l	100
79) tert-butylbenzene	11.76	119	635022	19.303	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	641466	19.742	ug/l	100
81) sec-Butylbenzene	11.94	105	745918	19.873	ug/l	99
82) p-Isopropyltoluene	12.06	119	687440	19.879	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	346325	19.256	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	351921	19.713	ug/l	98
85) n-Butylbenzene	12.39	91	583537	19.551	ug/l	99
86) Hexachloroethane	12.59	117	119806	18.879	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	347964	19.349	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	55347	17.819	ug/l	99
89) 1,2,4-Trichlorobenzene	13.64	180	236511	19.074	ug/l	97
90) Hexachlorobutadiene	13.78	225	114676	19.299	ug/l	95
91) Naphthalene	13.83	128	735329	18.729	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	242741	19.371	ug/l	99

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

