

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112219\
 Data File : VX013547.D
 Acq On : 22 Nov 2019 20:37
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 11/25/2019 5:21:26 PM

Quant Time: Nov 23 00:17:39 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	110785	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	617051	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	559234	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	237095	28.98	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.60%
60) 4-Bromofluorobenzene	11.14	95	267822	29.80	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.33%
63) Toluene-d8	8.71	98	767019	30.33	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	157680	18.996	ug/l 96
3) Chloromethane	1.32	50	168370	18.612	ug/l 99
4) Vinyl Chloride	1.40	62	195217	18.991	ug/l 100
5) Bromomethane	1.63	94	106472	17.229	ug/l 100
6) Chloroethane	1.72	64	104105	18.424	ug/l 97
7) Trichlorofluoromethane	1.92	101	207536	18.754	ug/l 99
8) Diethyl Ether	2.18	74	96073	19.014	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	124965	18.769	ug/l 98
10) 1,1-Dichloroethene	2.36	96	129515	18.929	ug/l 96
11) Methyl Iodide	2.50	142	143752	17.015	ug/l 99
12) Methyl Acetate	2.76	43	238019	19.853	ug/l 96
13) Acrolein	2.28	56	111601	87.631	ug/l 98
14) Acrylonitrile	3.13	53	417821	94.771	ug/l 99
15) Acetone	2.43	58	110073	82.435	ug/l 93
16) Carbon Disulfide	2.56	76	337210	17.670	ug/l 99
17) Allyl chloride	2.72	41	223251	17.718	ug/l 98
18) Methylene Chloride	2.85	84	150625	19.403	ug/l 98
19) trans-1,2-Dichloroethene	3.16	96	139855	19.126	ug/l 96
20) Diisopropyl ether	3.84	45	456180	18.819	ug/l # 83
21) 1,1-Dichloroethane	3.69	63	244918	18.550	ug/l 97
22) cis-1,2-Dichloroethene	4.59	96	157422	18.883	ug/l 96
23) tert-Butyl Alcohol	3.03	59	182008	85.784	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	431322	19.047	ug/l 100
25) Chloroform	5.20	83	238693	18.469	ug/l 97
26) Cyclohexane	5.57	56	219916	18.341	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	180840	19.188	ug/l 99
30) 2-Butanone	4.66	43	579457	93.147	ug/l 100
31) 2,2-Dichloropropane	4.58	77	166716	16.334	ug/l 100
32) 1,1,1-Trichloroethane	5.49	97	202865	19.365	ug/l 98
33) Carbon Tetrachloride	5.78	117	172302	18.936	ug/l 97
34) Benzene	6.14	78	564754	19.756	ug/l 99
35) Methacrylonitrile	5.03	41	126870	20.423	ug/l 93
36) 1,2-Dichloroethane	6.18	62	195420	19.530	ug/l 100
37) Trichloroethene	7.21	130	158667	20.718	ug/l 99
38) Methylcyclohexane	7.45	83	221494	19.167	ug/l 99
39) 1,2-Dichloropropane	7.51	63	146580	19.830	ug/l 91
40) Dibromomethane	7.65	93	94280	19.166	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	182184	18.972	ug/l	99
42) Vinyl Acetate	3.80	43	1508325	77.012	ug/l	99
43) Ethyl Acetate	4.82	43	214095	18.870	ug/l	96
44) Isopropyl Acetate	6.43	43	351866	19.293	ug/l	99
45) 1,4-Dioxane	7.73	88	74851	371.731	ug/l	98
46) Methyl methacrylate	7.76	41	174826	19.271	ug/l	99
47) n-amyl Acetate	10.89	43	301909	18.872	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	191474	17.782	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	219199	18.578	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	145423	19.978	ug/l	96
51) Ethyl methacrylate	9.17	69	229568	19.154	ug/l	100
52) 1,3-Dichloropropane	9.37	76	247851	19.917	ug/l	99
53) Dibromochloromethane	9.57	129	145159	18.815	ug/l	97
54) 1,2-Dibromoethane	9.67	107	152397	19.579	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	468077	91.403	ug/l	98
56) Bromoform	10.85	173	109750	17.876	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	1140296	97.607	ug/l	99
59) 2-Hexanone	9.48	43	886472	95.902	ug/l	99
61) Tetrachloroethene	9.33	164	210720	30.557	ug/l	97
62) Toluene	8.78	91	608391	19.531	ug/l	100
64) Chlorobenzene	10.14	112	378234	19.419	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	141003	19.340	ug/l	97
66) Ethyl Benzene	10.25	91	662097	19.347	ug/l	99
67) m/p-Xylenes	10.35	106	505489	38.292	ug/l	100
68) o-Xylene	10.70	106	249521	19.586	ug/l	96
69) Styrene	10.71	104	413801	19.022	ug/l	99
70) Isopropylbenzene	11.01	105	652560	19.439	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	219609	18.270	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	187578m	18.482	ug/l	
73) Bromobenzene	11.25	156	169103	19.101	ug/l	99
74) n-propylbenzene	11.35	91	737939	19.343	ug/l	100
75) 2-Chlorotoluene	11.42	91	440212	19.404	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	543746	19.270	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	65004	15.840	ug/l	96
78) 4-Chlorotoluene	11.51	91	497110	19.125	ug/l	99
79) tert-butylbenzene	11.76	119	472744	16.605	ug/l	91
80) 1,2,4-Trimethylbenzene	11.80	105	550229	19.568	ug/l	98
81) sec-Butylbenzene	11.94	105	620582	19.105	ug/l	99
82) p-Isopropyltoluene	12.06	119	567804	18.973	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	295971	19.016	ug/l	100
84) 1,4-Dichlorobenzene	12.09	146	293148	18.975	ug/l	99
85) n-Butylbenzene	12.39	91	479368	18.559	ug/l	99
86) Hexachloroethane	12.59	117	97422	17.739	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	298405	19.173	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	49715	18.495	ug/l	96
89) 1,2,4-Trichlorobenzene	13.64	180	205606	19.160	ug/l	98
90) Hexachlorobutadiene	13.78	225	97241	18.910	ug/l	97
91) Naphthalene	13.83	128	646582	19.030	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	206530	19.044	ug/l	98

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

