

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031320\
 Data File : VX015273.D
 Acq On : 13 Mar 2020 20:59
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 3/16/2020 2:07:32 PM

Quant Time: Mar 16 09:40:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031220W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 12 14:12:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	47837	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	259662	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	247187	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	95434	29.57	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.57%
60) 4-Bromofluorobenzene	11.13	95	117285	29.81	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.37%
63) Toluene-d8	8.71	98	325826	30.77	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	41323	17.177 ug/l	95
3) Chloromethane	1.32	50	59171	17.035 ug/l	96
4) Vinyl Chloride	1.40	62	58992	16.690 ug/l	98
5) Bromomethane	1.64	94	37353	16.221 ug/l	93
6) Chloroethane	1.72	64	36189	16.301 ug/l	97
7) Trichlorofluoromethane	1.93	101	74724	16.583 ug/l	98
8) Diethyl Ether	2.18	74	31927	15.986 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.38	101	47320	17.123 ug/l	99
10) 1,1-Dichloroethene	2.37	96	48196	17.299 ug/l	98
11) Methyl Iodide	2.51	142	42587	14.861 ug/l	96
12) Methyl Acetate	2.76	43	65952	19.190 ug/l	99
13) Acrolein	2.29	56	39657	73.067 ug/l	99
14) Acrylonitrile	3.14	53	150438	94.329 ug/l	98
15) Acetone	2.44	58	38269	81.780 ug/l	98
16) Carbon Disulfide	2.56	76	134366	17.222 ug/l	99
17) Allyl chloride	2.72	41	93689	18.126 ug/l	94
18) Methylene Chloride	2.85	84	56986	18.099 ug/l	98
19) trans-1,2-Dichloroethene	3.16	96	54469	18.125 ug/l	95
20) Diisopropyl ether	3.84	45	189294	18.436 ug/l	96
21) 1,1-Dichloroethane	3.69	63	101170	18.596 ug/l	98
22) cis-1,2-Dichloroethene	4.59	96	61751	18.178 ug/l	98
23) tert-Butyl Alcohol	3.04	59	57213	91.757 ug/l	100
24) Methyl tert-Butyl Ether	3.19	73	161345	17.923 ug/l	99
25) Chloroform	5.20	83	96610	18.668 ug/l	98
26) Cyclohexane	5.58	56	90177	17.836 ug/l #	100
29) 1,1-Dichloropropene	5.79	75	75093	18.846 ug/l	98
30) 2-Butanone	4.67	43	199317	93.406 ug/l	99
31) 2,2-Dichloropropane	4.58	77	66315	16.200 ug/l	99
32) 1,1,1-Trichloroethane	5.49	97	80275	18.513 ug/l	99
33) Carbon Tetrachloride	5.78	117	69155	18.636 ug/l	97
34) Benzene	6.14	78	231360	19.161 ug/l	99
35) Methacrylonitrile	5.03	41	45245	19.612 ug/l	98
36) 1,2-Dichloroethane	6.18	62	75631	18.778 ug/l	99
37) Trichloroethene	7.21	130	65476	19.608 ug/l	95
38) Methylcyclohexane	7.46	83	86391	17.844 ug/l	97
39) 1,2-Dichloropropane	7.51	63	61889	19.842 ug/l	93
40) Dibromomethane	7.65	93	38736	19.540 ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	73963	18.864	ug/l	95
42) Vinyl Acetate	3.81	43	781286	92.845	ug/l	100
43) Ethyl Acetate	4.83	43	81446	20.117	ug/l	99
44) Isopropyl Acetate	6.43	43	129812	18.956	ug/l	99
45) 1,4-Dioxane	7.75	88	28911	429.848	ug/l	98
46) Methyl methacrylate	7.76	41	64440	19.083	ug/l	95
47) n-amyl Acetate	10.89	43	109647	17.844	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	79884	18.737	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	92574	19.120	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	58215	19.860	ug/l	96
51) Ethyl methacrylate	9.17	69	87520	19.134	ug/l	97
52) 1,3-Dichloropropane	9.37	76	102061	20.572	ug/l	98
53) Dibromochloromethane	9.57	129	60792	19.474	ug/l	94
54) 1,2-Dibromoethane	9.67	107	61432	20.316	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	226182	98.735	ug/l	99
56) Bromoform	10.85	173	45831	18.725	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	413490	98.257	ug/l	99
59) 2-Hexanone	9.48	43	304432	95.712	ug/l	99
61) Tetrachloroethene	9.33	164	66744	19.397	ug/l	96
62) Toluene	8.78	91	249645	19.085	ug/l	100
64) Chlorobenzene	10.14	112	155824	18.644	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	57988	18.836	ug/l	99
66) Ethyl Benzene	10.25	91	271921	18.661	ug/l	99
67) m/p-Xylenes	10.35	106	209157	37.393	ug/l	99
68) o-Xylene	10.70	106	98785	18.420	ug/l	99
69) Styrene	10.71	104	172039	18.433	ug/l	99
70) Isopropylbenzene	11.01	105	265135	18.575	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	87465	18.877	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	71550m	18.866	ug/l	
73) Bromobenzene	11.25	156	72469	18.616	ug/l	98
74) n-propylbenzene	11.35	91	312747	18.546	ug/l	98
75) 2-Chlorotoluene	11.42	91	181516	18.436	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	221036	18.140	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	26255	16.529	ug/l	96
78) 4-Chlorotoluene	11.51	91	211323	18.643	ug/l	98
79) tert-butylbenzene	11.76	119	212389	18.592	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	226443	18.797	ug/l	100
81) sec-Butylbenzene	11.94	105	262791	18.536	ug/l	100
82) p-Isopropyltoluene	12.06	119	239392	18.362	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	130227	18.933	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	131038	19.046	ug/l	99
85) n-Butylbenzene	12.38	91	208484	18.247	ug/l	99
86) Hexachloroethane	12.59	117	41714	18.277	ug/l	92
87) 1,2-Dichlorobenzene	12.38	146	128787	19.203	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	17280	18.114	ug/l	98
89) 1,2,4-Trichlorobenzene	13.64	180	90952	18.348	ug/l	100
90) Hexachlorobutadiene	13.77	225	44651	17.508	ug/l	99
91) Naphthalene	13.83	128	256155	18.653	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	93295	18.700	ug/l	97

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

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