

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021319\
 Data File : VX007510.D
 Acq On : 13 Feb 2019 03:55
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 2/13/2019 11:53:22 AM

Quant Time: Feb 13 08:13:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 13 07:51:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	79648	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	413716	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	367503	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	151552	29.41	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.03%
60) 4-Bromofluorobenzene	11.13	95	169346	30.02	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.07%
63) Toluene-d8	8.71	98	496469	29.89	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	78153	19.377 ug/l	97
3) Chloromethane	1.33	50	87841	19.817 ug/l	96
4) Vinyl Chloride	1.41	62	96831	19.421 ug/l	99
5) Bromomethane	1.64	94	81035	18.200 ug/l	93
6) Chloroethane	1.73	64	64546	19.044 ug/l	99
7) Trichlorofluoromethane	1.93	101	150516	19.258 ug/l	96
8) Diethyl Ether	2.19	74	61943	19.840 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	82561	18.722 ug/l	98
10) 1,1-Dichloroethene	2.38	96	85270	19.487 ug/l	97
11) Methyl Iodide	2.51	142	112988	17.966 ug/l	99
12) Methyl Acetate	2.78	43	112605	18.660 ug/l	100
13) Acrolein	2.30	56	73631	69.949 ug/l	94
14) Acrylonitrile	3.15	53	269868	97.059 ug/l	99
15) Acetone	2.45	58	74974	99.358 ug/l	90
16) Carbon Disulfide	2.57	76	221641	19.101 ug/l	100
17) Allyl chloride	2.73	41	142169	18.963 ug/l	96
18) Methylene Chloride	2.86	84	96941	19.700 ug/l	95
19) trans-1,2-Dichloroethene	3.17	96	89033	19.024 ug/l	100
20) Diisopropyl ether	3.87	45	278236	19.638 ug/l	97
21) 1,1-Dichloroethane	3.70	63	157778	19.863 ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	101134	19.418 ug/l	99
23) tert-Butyl Alcohol	3.07	59	115843	99.125 ug/l	100
24) Methyl tert-Butyl Ether	3.20	73	296203	19.506 ug/l	97
25) Chloroform	5.21	83	166167	19.807 ug/l	97
26) Cyclohexane	5.57	56	130301	19.563 ug/l	# 99
29) 1,1-Dichloropropene	5.79	75	115431	20.002 ug/l	99
30) 2-Butanone	4.70	43	348611	102.077 ug/l	99
31) 2,2-Dichloropropane	4.59	77	80121m	17.088 ug/l	
32) 1,1,1-Trichloroethane	5.50	97	138551	20.086 ug/l	# 87
33) Carbon Tetrachloride	5.78	117	119623	19.618 ug/l	97
34) Benzene	6.15	78	369358	20.303 ug/l	99
35) Methacrylonitrile	5.06	41	70693	19.909 ug/l	95
36) 1,2-Dichloroethane	6.20	62	126239	20.390 ug/l	98
37) Trichloroethene	7.21	130	105444	20.159 ug/l	99
38) Methylcyclohexane	7.46	83	127071	19.021 ug/l	99
39) 1,2-Dichloropropane	7.52	63	90850	20.077 ug/l	98
40) Dibromomethane	7.66	93	65840	20.146 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	115077	19.842	ug/l	99
42) Vinyl Acetate	3.82	43	1186730	99.275	ug/l	99
43) Ethyl Acetate	4.86	43	129941	19.868	ug/l #	79
44) Isopropyl Acetate	6.46	43	200145	19.821	ug/l	99
45) 1,4-Dioxane	7.75	88	48946	410.714	ug/l	99
46) Methyl methacrylate	7.77	41	103401	20.222	ug/l	96
47) n-amyl Acetate	10.90	43	170628	19.171	ug/l	97
48) t-1,3-Dichloropropene	9.04	75	112486	18.788	ug/l	98
49) cis-1,3-Dichloropropene	8.44	75	128212	19.230	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	96943	20.344	ug/l	98
51) Ethyl methacrylate	9.18	69	139024	20.124	ug/l	99
52) 1,3-Dichloropropane	9.37	76	157442	20.483	ug/l	98
53) Dibromochloromethane	9.59	129	96248	19.419	ug/l	99
54) 1,2-Dibromoethane	9.67	107	106548	20.420	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	333651	94.995	ug/l	99
56) Bromoform	10.85	173	70502	18.858	ug/l	100
58) 4-Methyl-2-Pentanone	8.65	43	687882	104.062	ug/l	100
59) 2-Hexanone	9.49	43	521609	103.886	ug/l	99
61) Tetrachloroethene	9.34	164	105678	20.256	ug/l	99
62) Toluene	8.78	91	403592	20.165	ug/l	99
64) Chlorobenzene	10.13	112	264739	20.354	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	94693	20.100	ug/l	99
66) Ethyl Benzene	10.25	91	429284	20.212	ug/l	99
67) m/p-Xylenes	10.36	106	334045	40.099	ug/l	99
68) o-Xylene	10.69	106	164494	20.246	ug/l	98
69) Styrene	10.71	104	262537	20.024	ug/l	99
70) Isopropylbenzene	11.02	105	428283	19.981	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	146205	20.634	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	118124m	18.233	ug/l	
73) Bromobenzene	11.26	156	120085	20.520	ug/l	99
74) n-propylbenzene	11.36	91	471088	19.794	ug/l	100
75) 2-Chlorotoluene	11.42	91	282777	19.871	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	349267	19.961	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	32626	17.446	ug/l	96
78) 4-Chlorotoluene	11.51	91	316167	19.465	ug/l	99
79) tert-butylbenzene	12.06	119	356811	19.205	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	354576	19.963	ug/l	98
81) sec-Butylbenzene	11.94	105	415399	19.880	ug/l	100
82) p-Isopropyltoluene	12.06	119	356811	19.205	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	204167	19.845	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	202151	19.691	ug/l	98
85) n-Butylbenzene	12.39	91	289413	18.772	ug/l	99
86) Hexachloroethane	12.60	117	58451	18.949	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	209401	20.279	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	28998	19.611	ug/l	100
89) 1,2,4-Trichlorobenzene	13.65	180	129418	19.083	ug/l	99
90) Hexachlorobutadiene	13.78	225	58630	18.503	ug/l	96
91) Naphthalene	13.83	128	426118	19.701	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	134774	19.549	ug/l	98

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

