

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062620\
 Data File : VX017003.D
 Acq On : 27 Jun 2020 00:48
 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
 6/29/2020 12:32:59 PM

Quant Time: Jun 27 03:13:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X062520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 26 09:03:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	54930	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	296009	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	276508	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	124474	29.11	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.03%
60) 4-Bromofluorobenzene	11.12	95	142308	30.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.87%
63) Toluene-d8	8.70	98	359950	29.53	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	58906	22.053	ug/l 98
3) Chloromethane	1.32	50	69442	19.171	ug/l 99
4) Vinyl Chloride	1.39	62	67042	18.149	ug/l 99
5) Bromomethane	1.64	94	42572	16.006	ug/l 99
6) Chloroethane	1.72	64	41944	17.606	ug/l 97
7) Trichlorofluoromethane	1.92	101	97294	16.195	ug/l 97
8) Diethyl Ether	2.17	74	37111	16.977	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	59767	18.745	ug/l 95
10) 1,1-Dichloroethene	2.36	96	61309	19.497	ug/l 93
11) Methyl Iodide	2.50	142	72449	17.255	ug/l 93
12) Methyl Acetate	2.75	43	86859	21.898	ug/l 100
13) Acrolein	2.27	56	50033	79.938	ug/l 100
14) Acrylonitrile	3.12	53	185344	98.656	ug/l 98
15) Acetone	2.42	58	47204	97.091	ug/l 94
16) Carbon Disulfide	2.55	76	175069	17.710	ug/l 99
17) Allyl chloride	2.71	41	110707	18.806	ug/l 95
18) Methylene Chloride	2.84	84	70970	18.738	ug/l 96
19) trans-1,2-Dichloroethene	3.14	96	67320	18.895	ug/l 98
20) Diisopropyl ether	3.82	45	227337	19.324	ug/l 97
21) 1,1-Dichloroethane	3.67	63	122036	18.812	ug/l 99
22) cis-1,2-Dichloroethene	4.57	96	77247	19.473	ug/l 94
23) tert-Butyl Alcohol	3.01	59	73972	88.887	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	215888	19.227	ug/l 97
25) Chloroform	5.18	83	124753	18.968	ug/l 100
26) Cyclohexane	5.55	56	103335	18.261	ug/l # 100
29) 1,1-Dichloropropene	5.77	75	89726	18.607	ug/l 99
30) 2-Butanone	4.64	43	256098	101.890	ug/l 99
31) 2,2-Dichloropropane	4.55	77	87460	15.815	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	114248	19.580	ug/l 96
33) Carbon Tetrachloride	5.76	117	101581	19.631	ug/l 96
34) Benzene	6.12	78	272668	19.420	ug/l 98
35) Methacrylonitrile	5.00	41	56937	20.526	ug/l 94
36) 1,2-Dichloroethane	6.17	62	101548	18.884	ug/l 100
37) Trichloroethene	7.19	130	81126	21.174	ug/l 89
38) Methylcyclohexane	7.44	83	96609	17.592	ug/l 96
39) 1,2-Dichloropropane	7.49	63	71822	19.634	ug/l 99
40) Dibromomethane	7.64	93	48385	19.192	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	100366	19.225	ug/l	92
42) Vinyl Acetate	3.79	43	954183	94.205	ug/l	100
43) Ethyl Acetate	4.79	43	101992	19.590	ug/l	99
44) Isopropyl Acetate	6.42	43	162249	18.906	ug/l	98
45) 1,4-Dioxane	7.71	88	29001	334.977	ug/l	96
46) Methyl methacrylate	7.75	41	78536	19.775	ug/l	91
47) n-amyl Acetate	10.88	43	136999	18.061	ug/l	98
48) t-1,3-Dichloropropene	9.02	75	106450	18.442	ug/l	96
49) cis-1,3-Dichloropropene	8.42	75	114347	18.849	ug/l	96
50) 1,1,2-Trichloroethane	9.20	97	71597	20.349	ug/l	97
51) Ethyl methacrylate	9.16	69	102496	18.982	ug/l	96
52) 1,3-Dichloropropane	9.35	76	118910	19.685	ug/l	97
53) Dibromochloromethane	9.57	129	79162	19.575	ug/l	99
54) 1,2-Dibromoethane	9.65	107	73756	19.755	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	291893	102.724	ug/l	99
56) Bromoform	10.84	173	56389	19.643	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	510782	100.284	ug/l	99
59) 2-Hexanone	9.47	43	381251	100.297	ug/l	99
61) Tetrachloroethene	9.32	164	68903	19.540	ug/l	99
62) Toluene	8.76	91	289407	19.136	ug/l	100
64) Chlorobenzene	10.12	112	183335	19.350	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.20	131	69132	19.381	ug/l	99
66) Ethyl Benzene	10.24	91	316255	18.857	ug/l	98
67) m/p-Xylenes	10.34	106	242745	38.368	ug/l	100
68) o-Xylene	10.68	106	115002	18.923	ug/l	99
69) Styrene	10.70	104	199737	19.195	ug/l	98
70) Isopropylbenzene	11.00	105	311531	18.900	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.25	83	97998	19.358	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	99521m	20.471	ug/l	
73) Bromobenzene	11.24	156	79249	19.050	ug/l	93
74) n-propylbenzene	11.34	91	363518	18.574	ug/l	99
75) 2-Chlorotoluene	11.40	91	218264	19.124	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	264437	19.112	ug/l	99
77) t-1,4-Dichloro-2-butene	11.06	75	34265	17.392	ug/l	97
78) 4-Chlorotoluene	11.49	91	257562	19.060	ug/l	100
79) tert-butylbenzene	11.76	119	251330	18.962	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	263809	18.992	ug/l	98
81) sec-Butylbenzene	11.93	105	300314	18.714	ug/l	100
82) p-Isopropyltoluene	12.05	119	274269	18.929	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	144102	19.330	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	145040	19.363	ug/l	99
85) n-Butylbenzene	12.37	91	234250	17.466	ug/l	99
86) Hexachloroethane	12.58	117	53812	18.977	ug/l	98
87) 1,2-Dichlorobenzene	12.38	146	138880	19.903	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.98	75	24045	20.877	ug/l	99
89) 1,2,4-Trichlorobenzene	13.63	180	86248	18.321	ug/l	99
90) Hexachlorobutadiene	13.76	225	33342	18.618	ug/l	99
91) Naphthalene	13.82	128	300114	19.449	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	88591	19.283	ug/l	100

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

