

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031220\
 Data File : VX015230.D
 Acq On : 12 Mar 2020 12:16
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 3/16/2020 11:43:33 AM

Quant Time: Mar 12 14:10:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031220W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 12 13:50:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	47389	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	270987	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	252223	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	100024	30.35	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.17%
60) 4-Bromofluorobenzene	11.13	95	119911	30.52	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.73%
63) Toluene-d8	8.71	98	313114	28.47	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	94.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	46334	21.895 ug/l	95
3) Chloromethane	1.32	50	69479	25.392 ug/l	97
4) Vinyl Chloride	1.40	62	70348	23.888 ug/l	99
5) Bromomethane	1.64	94	45126	21.882 ug/l	98
6) Chloroethane	1.72	64	44522	22.569 ug/l	100
7) Trichlorofluoromethane	1.93	101	90658	21.152 ug/l	94
8) Diethyl Ether	2.18	74	39916	22.139 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.38	101	54174	21.862 ug/l	98
10) 1,1-Dichloroethene	2.37	96	54783	21.991 ug/l	98
11) Methyl Iodide	2.50	142	46339	15.309 ug/l	97
12) Methyl Acetate	2.76	43	64811	20.907 ug/l	95
13) Acrolein	2.28	56	51201	83.048 ug/l	98
14) Acrylonitrile	3.13	53	147135	105.098 ug/l	99
15) Acetone	2.44	58	51643	103.077 ug/l	95
16) Carbon Disulfide	2.56	76	140399	20.961 ug/l	99
17) Allyl chloride	2.72	41	95511	22.040 ug/l	90
18) Methylene Chloride	2.85	84	58525	20.390 ug/l	94
19) trans-1,2-Dichloroethene	3.16	96	54619	19.961 ug/l	98
20) Diisopropyl ether	3.84	45	192284	21.727 ug/l	96
21) 1,1-Dichloroethane	3.69	63	100965	20.812 ug/l	100
22) cis-1,2-Dichloroethene	4.59	96	64251	20.520 ug/l	99
23) tert-Butyl Alcohol	3.03	59	55984	100.880 ug/l	100
24) Methyl tert-Butyl Ether	3.19	73	166127	20.044 ug/l	95
25) Chloroform	5.20	83	101217	20.689 ug/l	97
26) Cyclohexane	5.58	56	96403	22.234 ug/l #	95
29) 1,1-Dichloropropene	5.79	75	79803	20.820 ug/l	99
30) 2-Butanone	4.66	43	217776	98.435 ug/l	99
31) 2,2-Dichloropropane	4.58	77	79008	18.772 ug/l	97
32) 1,1,1-Trichloroethane	5.49	97	87820	20.176 ug/l	98
33) Carbon Tetrachloride	5.78	117	74049	19.434 ug/l	97
34) Benzene	6.14	78	247883	21.432 ug/l	98
35) Methacrylonitrile	5.03	41	44207	19.588 ug/l	97
36) 1,2-Dichloroethane	6.19	62	83079m	20.294 ug/l	
37) Trichloroethene	7.20	130	65391	20.137 ug/l	100
38) Methylcyclohexane	7.46	83	91484	19.256 ug/l	98
39) 1,2-Dichloropropane	7.51	63	60905	20.458 ug/l	97
40) Dibromomethane	7.65	93	38953	19.595 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	74150	18.883	ug/l	95
42) Vinyl Acetate	3.81	43	806026	103.507	ug/l	99
43) Ethyl Acetate	4.82	43	78244	19.546	ug/l	97
44) Isopropyl Acetate	6.44	43	138460	20.575	ug/l	96
45) 1,4-Dioxane	7.75	88	25605	411.781	ug/l	98
46) Methyl methacrylate	7.76	41	65239	19.596	ug/l	97
47) n-amyl Acetate	10.89	43	120654	20.696	ug/l	97
48) t-1,3-Dichloropropene	9.04	75	80087	18.382	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	94676	19.739	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	57406	19.383	ug/l	94
51) Ethyl methacrylate	9.17	69	88150	19.284	ug/l	95
52) 1,3-Dichloropropane	9.37	76	97881	19.536	ug/l	100
53) Dibromochloromethane	9.57	129	59599	18.613	ug/l	95
54) 1,2-Dibromoethane	9.67	107	59774	19.009	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	222679	91.450	ug/l	98
56) Bromoform	10.85	173	47999	19.122	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	401837	97.212	ug/l	99
59) 2-Hexanone	9.48	43	304450	94.265	ug/l	99
61) Tetrachloroethene	9.33	164	66966	19.768	ug/l	95
62) Toluene	8.78	91	247286	19.141	ug/l	99
64) Chlorobenzene	10.14	112	165893	20.118	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	61089	20.000	ug/l	99
66) Ethyl Benzene	10.25	91	286778	20.151	ug/l	100
67) m/p-Xylenes	10.36	106	219617	40.020	ug/l	100
68) o-Xylene	10.70	106	104402	19.662	ug/l	99
69) Styrene	10.71	104	183251	20.207	ug/l	99
70) Isopropylbenzene	11.01	105	283535	20.103	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	90369	19.900	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	76076m	20.196	ug/l	
73) Bromobenzene	11.25	156	75526	19.818	ug/l	94
74) n-propylbenzene	11.35	91	323724	20.166	ug/l	100
75) 2-Chlorotoluene	11.42	91	190525	20.084	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	236121	19.976	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	28827	18.978	ug/l	99
78) 4-Chlorotoluene	11.51	91	221394	20.176	ug/l	99
79) tert-butylbenzene	11.76	119	209044	18.305	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	223113	18.986	ug/l	100
81) sec-Butylbenzene	11.94	105	260409	19.041	ug/l	100
82) p-Isopropyltoluene	12.06	119	241382	18.998	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	128117	19.177	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	126668	18.828	ug/l	99
85) n-Butylbenzene	12.39	91	209987	18.993	ug/l	99
86) Hexachloroethane	12.59	117	40314	17.554	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	124717	18.760	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	17141	17.331	ug/l	94
89) 1,2,4-Trichlorobenzene	13.64	180	89731	18.769	ug/l	99
90) Hexachlorobutadiene	13.78	225	47814	20.138	ug/l	96
91) Naphthalene	13.83	128	250474	18.506	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	90548	19.077	ug/l	100

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

