

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032520\
 Data File : VX015347.D
 Acq On : 25 Mar 2020 18:31
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDICCC020

Manual Integrations
 APPROVED

apatel
 3/26/2020 11:01:13 AM

Quant Time: Mar 26 02:24:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 26 02:14:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	192882	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	1082704	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	971700	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	455663	34.20	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	114.00%
60) 4-Bromofluorobenzene	11.12	95	504486	32.04	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	106.80%
63) Toluene-d8	8.70	98	1270664	30.22	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	169066	17.798	ug/l 100
3) Chloromethane	1.31	50	201831	15.303	ug/l 100
4) Vinyl Chloride	1.39	62	200027	14.948	ug/l 100
5) Bromomethane	1.64	94	134250	15.280	ug/l 100
6) Chloroethane	1.72	64	129133	15.325	ug/l 100
7) Trichlorofluoromethane	1.92	101	294407	16.907	ug/l 100
8) Diethyl Ether	2.17	74	111144	14.749	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	195474	17.957	ug/l 100
10) 1,1-Dichloroethene	2.36	96	198257	18.057	ug/l 100
11) Methyl Iodide	2.50	142	245535	20.266	ug/l 100
12) Methyl Acetate	2.75	43	292000	20.668	ug/l 100
13) Acrolein	2.27	56	191965	89.112	ug/l 100
14) Acrylonitrile	3.12	53	632919	97.460	ug/l 100
15) Acetone	2.42	58	163153	91.067	ug/l 100
16) Carbon Disulfide	2.55	76	579796	18.394	ug/l 100
17) Allyl chloride	2.71	41	449287	20.965	ug/l 100
18) Methylene Chloride	2.84	84	222722	17.771	ug/l 100
19) trans-1,2-Dichloroethene	3.14	96	215676	17.895	ug/l 100
20) Diisopropyl ether	3.83	45	820393	19.651	ug/l 100
21) 1,1-Dichloroethane	3.67	63	413833	18.853	ug/l 100
22) cis-1,2-Dichloroethene	4.57	96	244888	18.110	ug/l 100
23) tert-Butyl Alcohol	3.01	59	315622	117.444	ug/l 100
24) Methyl tert-Butyl Ether	3.17	73	744967	20.157	ug/l 100
25) Chloroform	5.18	83	404602	19.472	ug/l 100
26) Cyclohexane	5.55	56	391614	19.231	ug/l # 100
29) 1,1-Dichloropropene	5.77	75	308575	18.688	ug/l 100
30) 2-Butanone	4.64	43	948045	104.717	ug/l 100
31) 2,2-Dichloropropane	4.56	77	379832	21.440	ug/l 100
32) 1,1,1-Trichloroethane	5.47	97	381700	20.759	ug/l 100
33) Carbon Tetrachloride	5.76	117	346685	21.709	ug/l 100
34) Benzene	6.12	78	903896	18.268	ug/l 100
35) Methacrylonitrile	5.01	41	212095	21.263	ug/l 100
36) 1,2-Dichloroethane	6.17	62	356089	20.928	ug/l 100
37) Trichloroethene	7.19	130	252570	18.253	ug/l 100
38) Methylcyclohexane	7.45	83	383326	18.822	ug/l 100
39) 1,2-Dichloropropane	7.50	63	241570	18.600	ug/l 100
40) Dibromomethane	7.64	93	159402	19.197	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	346373	20.556	ug/l	100
42) Vinyl Acetate	3.79	43	3705770	102.772	ug/l	100
43) Ethyl Acetate	4.79	43	376979	21.512	ug/l	100
44) Isopropyl Acetate	6.42	43	657923	22.226	ug/l	100
45) 1,4-Dioxane	7.72	88	124297	426.230	ug/l	100
46) Methyl methacrylate	7.75	41	327236	22.192	ug/l	100
47) n-amyl Acetate	10.88	43	554459	21.041	ug/l	100
48) t-1,3-Dichloropropene	9.03	75	398932	21.487	ug/l	100
49) cis-1,3-Dichloropropene	8.42	75	415299	20.200	ug/l	100
50) 1,1,2-Trichloroethane	9.20	97	229755	18.802	ug/l	100
51) Ethyl methacrylate	9.16	69	390561	20.084	ug/l	100
52) 1,3-Dichloropropane	9.36	76	402016	19.332	ug/l	100
53) Dibromochloromethane	9.57	129	281348	20.912	ug/l	100
54) 1,2-Dibromoethane	9.65	107	247707	19.507	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	963370	99.324	ug/l	100
56) Bromoform	10.84	173	227499	21.538	ug/l	100
58) 4-Methyl-2-Pentanone	8.62	43	1886923	109.606	ug/l	100
59) 2-Hexanone	9.48	43	1421823	109.391	ug/l	100
61) Tetrachloroethene	9.32	164	242076	18.114	ug/l	100
62) Toluene	8.77	91	959555	18.640	ug/l	100
64) Chlorobenzene	10.12	112	603772	18.581	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	245172	20.102	ug/l	100
66) Ethyl Benzene	10.24	91	1101334	19.243	ug/l	100
67) m/p-Xylenes	10.34	106	822719	37.625	ug/l	100
68) o-Xylene	10.68	106	402189	19.083	ug/l	100
69) Styrene	10.70	104	702861	19.179	ug/l	100
70) Isopropylbenzene	11.00	105	1078379	19.272	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	341533	18.824	ug/l	100
72) 1,2,3-Trichloropropane	11.28	75	326494m	21.425	ug/l	
73) Bromobenzene	11.24	156	278656	18.371	ug/l	100
74) n-propylbenzene	11.34	91	1242493	18.760	ug/l	100
75) 2-Chlorotoluene	11.40	91	754213	19.393	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	926602	19.282	ug/l	100
77) t-1,4-Dichloro-2-butene	11.06	75	138137	21.240	ug/l	100
78) 4-Chlorotoluene	11.49	91	870778	19.469	ug/l	100
79) tert-butylbenzene	11.76	119	916903	19.928	ug/l	100
80) 1,2,4-Trimethylbenzene	11.79	105	937377	19.479	ug/l	100
81) sec-Butylbenzene	11.93	105	1058822	18.815	ug/l	100
82) p-Isopropyltoluene	12.05	119	981704	18.968	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	499081	18.425	ug/l	100
84) 1,4-Dichlorobenzene	12.08	146	502323	18.479	ug/l	100
85) n-Butylbenzene	12.37	91	879685	19.287	ug/l	100
86) Hexachloroethane	12.58	117	183177	19.807	ug/l	100
87) 1,2-Dichlorobenzene	12.38	146	492406	18.598	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.98	75	91341	22.852	ug/l	99
89) 1,2,4-Trichlorobenzene	13.63	180	377631	19.070	ug/l	100
90) Hexachlorobutadiene	13.77	225	193278	19.111	ug/l	100
91) Naphthalene	13.82	128	1176874	20.982	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	381887	19.154	ug/l	100

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

