

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112020\
 Data File : VX019471.D
 Acq On : 19 Nov 2020 17:22
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 11/20/2020 12:25:07 PM

Quant Time: Nov 19 17:46:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 19 17:22:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	50371	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	277080	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	246718	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	107674	31.71	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	105.70%
60) 4-Bromofluorobenzene	11.12	95	123845	32.87	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	109.57%
63) Toluene-d8	8.70	98	334123	30.67	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	294645	110.303	ug/l 99
3) Chloromethane	1.31	50	310368	123.338	ug/l 98
4) Vinyl Chloride	1.39	62	352743	111.866	ug/l 99
5) Bromomethane	1.62	94	124445	60.174	ug/l 98
6) Chloroethane	1.69	64	80647	41.701	ug/l 97
7) Trichlorofluoromethane	1.89	101	500339	94.471	ug/l 97
8) Diethyl Ether	2.17	74	203624	101.539	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.36	101	282105	108.362	ug/l 100
10) 1,1-Dichloroethene	2.34	96	288098	108.962	ug/l 98
11) Methyl Iodide	2.48	142	392047	145.804	ug/l 98
12) Methyl Acetate	2.75	43	346875	127.401	ug/l 96
13) Acrolein	2.28	56	256154	876.359	ug/l 99
14) Acrylonitrile	3.12	53	845390	653.726	ug/l 99
15) Acetone	2.43	58	242570	645.210	ug/l 99
16) Carbon Disulfide	2.54	76	790456	109.531	ug/l 99
17) Allyl chloride	2.70	41	446347	130.502	ug/l 98
18) Methylene Chloride	2.83	84	339152	110.761	ug/l 97
19) trans-1,2-Dichloroethene	3.14	96	328986	107.941	ug/l 98
20) Diisopropyl ether	3.82	45	941331	133.529	ug/l 98
21) 1,1-Dichloroethane	3.67	63	569614	114.895	ug/l 100
22) cis-1,2-Dichloroethene	4.56	96	379288	107.378	ug/l 97
23) tert-Butyl Alcohol	3.06	59	355730	570.686	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	1021117	120.473	ug/l 100
25) Chloroform	5.17	83	588833	108.177	ug/l 99
26) Cyclohexane	5.54	56	496180	126.302	ug/l # 99
29) 1,1-Dichloropropene	5.76	75	446606	110.027	ug/l 99
30) 2-Butanone	4.64	43	1101322	639.431	ug/l 99
31) 2,2-Dichloropropane	4.54	77	502048	108.108	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	516239	106.023	ug/l 99
33) Carbon Tetrachloride	5.75	117	448343	106.402	ug/l 97
34) Benzene	6.11	78	1354025	111.461	ug/l 99
35) Methacrylonitrile	5.01	41	230450	126.793	ug/l 96
36) 1,2-Dichloroethane	6.16	62	460605	110.179	ug/l 100
37) Trichloroethene	7.19	130	358830	104.323	ug/l 96
38) Methylcyclohexane	7.44	83	549098	118.661	ug/l 98
39) 1,2-Dichloropropane	7.49	63	338912	117.864	ug/l 99
40) Dibromomethane	7.63	93	232982	106.761	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	473090	110.527	ug/l	98
42) Vinyl Acetate	3.79	43	4125369	633.681	ug/l	99
43) Ethyl Acetate	4.80	43	433526	123.417	ug/l	98
44) Isopropyl Acetate	6.42	43	702606	120.065	ug/l	99
45) 1,4-Dioxane	7.72	88	156265	2512.044	ug/l	96
46) Methyl methacrylate	7.74	41	347905	125.442	ug/l	96
47) n-amyl Acetate	10.88	43	610514	129.486	ug/l	97
48) t-1,3-Dichloropropene	9.02	75	516782	108.585	ug/l	99
49) cis-1,3-Dichloropropene	8.42	75	567858	111.481	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	337248	105.491	ug/l	95
51) Ethyl methacrylate	9.16	69	514609	112.366	ug/l	99
52) 1,3-Dichloropropane	9.35	76	571080	109.767	ug/l	99
53) Dibromochloromethane	9.57	129	355711	102.411	ug/l	98
54) 1,2-Dibromoethane	9.65	107	352999	103.027	ug/l	98
55) 2-Chloroethyl vinyl ether	8.29	63	1386349	572.672	ug/l	100
56) Bromoform	10.84	173	262841	108.399	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	2092204	629.341	ug/l	99
59) 2-Hexanone	9.48	43	1616668	650.049	ug/l	99
61) Tetrachloroethene	9.32	164	328120	106.619	ug/l	97
62) Toluene	8.76	91	1442885	107.662	ug/l	99
64) Chlorobenzene	10.12	112	874965	104.805	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.20	131	328829	108.221	ug/l	99
66) Ethyl Benzene	10.23	91	1602411	108.802	ug/l	97
67) m/p-Xylenes	10.34	106	1206363	215.148	ug/l	98
68) o-Xylene	10.68	106	575881	107.694	ug/l	99
69) Styrene	10.70	104	992368	109.803	ug/l	99
70) Isopropylbenzene	11.00	105	1532011	106.090	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	526855	122.834	ug/l	99
72) 1,1,2,3-Trichloropropane	11.28	75	471606m	122.872	ug/l	
73) Bromobenzene	11.24	156	379487	107.393	ug/l	99
74) n-propylbenzene	11.34	91	1818432	111.154	ug/l	100
75) 2-Chlorotoluene	11.40	91	1066497	113.372	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	1316693	111.738	ug/l	99
77) t-1,4-Dichloro-2-butene	11.06	75	180718	123.053	ug/l	92
78) 4-Chlorotoluene	11.49	91	1270170	115.305	ug/l	99
79) tert-butylbenzene	11.76	119	1276768	110.978	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	1339847	114.387	ug/l	99
81) sec-Butylbenzene	11.93	105	1524232	111.147	ug/l	98
82) p-Isopropyltoluene	12.05	119	1413214	112.304	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	718214	112.755	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	721342	111.595	ug/l	99
85) n-Butylbenzene	12.37	91	1312893	116.755	ug/l	99
86) Hexachloroethane	12.58	117	246656	125.318	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	700150	114.186	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.98	75	118120	124.597	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	492286	114.123	ug/l	99
90) Hexachlorobutadiene	13.76	225	212087	112.683	ug/l	97
91) Naphthalene	13.82	128	1620512	115.335	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	498080	118.813	ug/l	98

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

