

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070920\
 Data File : VX017298.D
 Acq On : 09 Jul 2020 10:29
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/10/2020 12:36:32 PM

Quant Time: Jul 09 11:57:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X070920W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 09 11:39:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	58348	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.82	114	309025	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	291154	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	128054	28.66	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.53%
60) 4-Bromofluorobenzene	11.12	95	143352	29.28	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.60%
63) Toluene-d8	8.70	98	380849	29.76	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	15305	5.398	ug/l 98
3) Chloromethane	1.31	50	14124	3.925	ug/l 94
4) Vinyl Chloride	1.39	62	15472	4.209	ug/l 99
5) Bromomethane	1.63	94	11576	4.418	ug/l 91
6) Chloroethane	1.71	64	10205	4.267	ug/l 94
7) Trichlorofluoromethane	1.92	101	27824	4.534	ug/l 89
8) Diethyl Ether	2.17	74	9862	4.466	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	15690	4.808	ug/l 98
10) 1,1-Dichloroethene	2.36	96	14889	4.669	ug/l 94
11) Methyl Iodide	2.49	142	11088	2.628	ug/l 99
12) Methyl Acetate	2.75	43	18684	4.545	ug/l 97
13) Acrolein	2.27	56	10270	16.150	ug/l 99
14) Acrylonitrile	3.11	53	42842	22.307	ug/l 99
15) Acetone	2.42	58	10869	22.048	ug/l 91
16) Carbon Disulfide	2.55	76	35658	3.596	ug/l 96
17) Allyl chloride	2.70	41	27177	4.589	ug/l 92
18) Methylene Chloride	2.83	84	19447	5.030	ug/l 96
19) trans-1,2-Dichloroethene	3.14	96	16801	4.577	ug/l 94
20) Diisopropyl ether	3.82	45	53168	4.433	ug/l 88
21) 1,1-Dichloroethane	3.67	63	30484	4.615	ug/l 98
22) cis-1,2-Dichloroethene	4.56	96	19607	4.822	ug/l 96
23) tert-Butyl Alcohol	3.01	59	16656	19.850	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	53514	4.648	ug/l 98
25) Chloroform	5.17	83	31862	4.714	ug/l 94
26) Cyclohexane	5.54	56	22700	3.988	ug/l # 100
29) 1,1-Dichloropropene	5.76	75	21632	4.435	ug/l 86
30) 2-Butanone	4.64	43	55736	21.887	ug/l # 98
31) 2,2-Dichloropropane	4.54	77	29710	5.261	ug/l # 86
32) 1,1,1-Trichloroethane	5.46	97	29077	4.873	ug/l 98
33) Carbon Tetrachloride	5.74	117	27617	5.184	ug/l 98
34) Benzene	6.11	78	66357	4.680	ug/l 97
35) Methacrylonitrile	5.00	41	12895	4.591	ug/l 95
36) 1,2-Dichloroethane	6.17	62	26072	4.771	ug/l # 90
37) Trichloroethene	7.19	130	20526	5.220	ug/l 99
38) Methylcyclohexane	7.44	83	22533	4.088	ug/l 97
39) 1,2-Dichloropropane	7.49	63	17106	4.621	ug/l 96
40) Dibromomethane	7.63	93	12673	4.949	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	25759	4.855	ug/l	91
42) Vinyl Acetate	3.78	43	219268	21.542	ug/l	100
43) Ethyl Acetate	4.79	43	21577	4.114	ug/l	97
44) Isopropyl Acetate	6.41	43	37053	4.290	ug/l	100
45) 1,4-Dioxane	7.71	88	6887	80.854	ug/l #	88
46) Methyl methacrylate	7.74	41	16640	4.133	ug/l	92
47) n-amyl Acetate	10.88	43	29989	3.932	ug/l	99
48) t-1,3-Dichloropropene	9.02	75	27552	4.687	ug/l	98
49) cis-1,3-Dichloropropene	8.41	75	28606	4.639	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	18813	5.193	ug/l	96
51) Ethyl methacrylate	9.16	69	23224	4.243	ug/l	91
52) 1,3-Dichloropropane	9.35	76	29213	4.775	ug/l	98
53) Dibromochloromethane	9.56	129	22034	5.242	ug/l	97
54) 1,2-Dibromoethane	9.65	107	19210	4.999	ug/l	97
55) 2-Chloroethyl vinyl ether	8.29	63	22983	7.971	ug/l	97
56) Bromoform	10.84	173	17008	5.611	ug/l	96
58) 4-Methyl-2-Pentanone	8.62	43	109908	21.125	ug/l	98
59) 2-Hexanone	9.47	43	83929	21.570	ug/l	98
61) Tetrachloroethene	9.32	164	21847	5.861	ug/l	93
62) Toluene	8.76	91	73423	4.747	ug/l	100
64) Chlorobenzene	10.12	112	49262	5.032	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.20	131	20310	5.463	ug/l	95
66) Ethyl Benzene	10.23	91	78818	4.592	ug/l	99
67) m/p-Xylenes	10.34	106	60138	9.215	ug/l	99
68) o-Xylene	10.68	106	27706	4.463	ug/l	97
69) Styrene	10.70	104	47786	4.443	ug/l	98
70) Isopropylbenzene	11.00	105	78754	4.628	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.25	83	25161	4.798	ug/l	98
72) 1,2,3-Trichloropropane	11.28	75	25597m	5.078	ug/l	
73) Bromobenzene	11.24	156	22760	5.226	ug/l	98
74) n-propylbenzene	11.34	91	92179	4.592	ug/l	98
75) 2-Chlorotoluene	11.40	91	56795	4.793	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	65511	4.570	ug/l	100
77) t-1,4-Dichloro-2-butene	11.05	75	8396	4.139	ug/l	97
78) 4-Chlorotoluene	11.49	91	67533	4.823	ug/l	99
79) tert-butylbenzene	11.76	119	62878	4.587	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	66025	4.591	ug/l	99
81) sec-Butylbenzene	11.93	105	75199	4.557	ug/l	99
82) p-Isopropyltoluene	12.05	119	69959	4.661	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	42646	5.451	ug/l	98
84) 1,4-Dichlorobenzene	12.08	146	44235	5.629	ug/l	95
85) n-Butylbenzene	12.37	91	60157	4.393	ug/l	97
86) Hexachloroethane	12.58	117	14074	4.820	ug/l	99
87) 1,2-Dichlorobenzene	12.38	146	40296	5.489	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	5664	4.717	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	26529	5.345	ug/l	99
90) Hexachlorobutadiene	13.77	225	12459	6.473	ug/l	97
91) Naphthalene	13.82	128	70526	4.411	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	26397	5.419	ug/l	99

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

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