

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062520\
 Data File : VX016948.D
 Acq On : 25 Jun 2020 12:39
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 6/26/2020 3:33:40 PM

Quant Time: Jun 26 08:56:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X062520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 26 08:49:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	37947	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.83	114	216122	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	196272	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	90481	30.63	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.10%
60) 4-Bromofluorobenzene	11.12	95	94774	28.95	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.50%
63) Toluene-d8	8.70	98	264088	30.52	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	10127	5.488	ug/l 98
3) Chloromethane	1.32	50	13548	5.414	ug/l 98
4) Vinyl Chloride	1.39	62	14074	5.515	ug/l 94
5) Bromomethane	1.63	94	11598	6.312	ug/l 99
6) Chloroethane	1.71	64	8945	5.435	ug/l 99
7) Trichlorofluoromethane	1.92	101	22725	5.476	ug/l 98
8) Diethyl Ether	2.17	74	8260	5.470	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	12609	5.725	ug/l 97
10) 1,1-Dichloroethene	2.36	96	11837	5.449	ug/l 93
11) Methyl Iodide	2.49	142	13497	4.653	ug/l 88
12) Methyl Acetate	2.75	43	14754	5.384	ug/l 100
13) Acrolein	2.27	56	11205	25.914	ug/l 98
14) Acrylonitrile	3.12	53	33558	25.857	ug/l 96
15) Acetone	2.42	58	9060	26.975	ug/l 89
16) Carbon Disulfide	2.55	76	38398	5.623	ug/l 100
17) Allyl chloride	2.70	41	20411	5.019	ug/l 98
18) Methylene Chloride	2.83	84	15291	5.844	ug/l 90
19) trans-1,2-Dichloroethene	3.14	96	13421	5.453	ug/l 89
20) Diisopropyl ether	3.82	45	41421	5.097	ug/l 98
21) 1,1-Dichloroethane	3.67	63	23783	5.307	ug/l 99
22) cis-1,2-Dichloroethene	4.56	96	14250	5.200	ug/l 100
23) tert-Butyl Alcohol	3.01	59	15140	99.520	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	39279	5.064	ug/l 97
25) Chloroform	5.17	83	24237	5.334	ug/l 84
26) Cyclohexane	5.54	56	20578	5.264	ug/l # 99
29) 1,1-Dichloropropene	5.77	75	17935	5.094	ug/l 99
30) 2-Butanone	4.64	43	44155	24.061	ug/l 99
31) 2,2-Dichloropropane	4.55	77	21138	5.235	ug/l 97
32) 1,1,1-Trichloroethane	5.46	97	22008	5.166	ug/l # 86
33) Carbon Tetrachloride	5.75	117	19034	5.038	ug/l 97
34) Benzene	6.11	78	52223	5.094	ug/l 93
35) Methacrylonitrile	5.00	41	9795	4.836	ug/l 90
36) 1,2-Dichloroethane	6.16	62	20677	5.266	ug/l # 81
37) Trichloroethene	7.19	130	14534	5.196	ug/l 91
38) Methylcyclohexane	7.43	83	19997	4.987	ug/l 96
39) 1,2-Dichloropropane	7.49	63	13792	5.164	ug/l 97
40) Dibromomethane	7.63	93	9365	5.088	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	18620	4.885	ug/l	97
42) Vinyl Acetate	3.78	43	173417	23.450	ug/l	99
43) Ethyl Acetate	4.79	43	19362m	5.106	ug/l	
44) Isopropyl Acetate	6.42	43	30460	4.861	ug/l	98
45) 1,4-Dioxane	7.72	88	5820	92.073	ug/l	92
46) Methyl methacrylate	7.74	41	12390	4.273	ug/l	95
47) n-amyl Acetate	10.88	43	24279	4.384	ug/l	97
48) t-1,3-Dichloropropene	9.02	75	20077	4.764	ug/l	96
49) cis-1,3-Dichloropropene	8.42	75	21476	4.849	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	13069	5.087	ug/l	95
51) Ethyl methacrylate	9.16	69	17029	4.319	ug/l	99
52) 1,3-Dichloropropane	9.35	76	21461	4.866	ug/l	90
53) Dibromochloromethane	9.56	129	14132	4.786	ug/l	98
54) 1,2-Dibromoethane	9.65	107	13679	5.018	ug/l	97
55) 2-Chloroethyl vinyl ether	8.29	63	47210	22.756	ug/l	99
56) Bromoform	10.84	173	9402	4.486	ug/l	97
58) 4-Methyl-2-Pentanone	8.62	43	87681	24.252	ug/l	98
59) 2-Hexanone	9.47	43	63077	23.377	ug/l	99
61) Tetrachloroethene	9.32	164	13995	5.591	ug/l	94
62) Toluene	8.76	91	55781	5.196	ug/l	97
64) Chlorobenzene	10.12	112	34655	5.153	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	12439	4.913	ug/l	98
66) Ethyl Benzene	10.23	91	58317	4.899	ug/l	100
67) m/p-Xylenes	10.34	106	43995	9.797	ug/l	99
68) o-Xylene	10.68	106	20830	4.829	ug/l	99
69) Styrene	10.70	104	33601	4.549	ug/l	99
70) Isopropylbenzene	11.00	105	57877	4.947	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	18094	5.035	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	17511m	5.075	ug/l	
73) Bromobenzene	11.24	156	14458	4.896	ug/l	94
74) n-propylbenzene	11.34	91	67403	4.852	ug/l	99
75) 2-Chlorotoluene	11.40	91	40508	5.000	ug/l	98
76) 1,3,5-Trimethylbenzene	11.49	105	46645	4.749	ug/l	99
77) t-1,4-Dichloro-2-butene	11.05	75	6823	4.879	ug/l	92
78) 4-Chlorotoluene	11.49	91	46886	4.888	ug/l	97
79) tert-butylbenzene	11.76	119	43984	4.675	ug/l	97
80) 1,2,4-Trimethylbenzene	11.79	105	47118	4.779	ug/l	100
81) sec-Butylbenzene	11.93	105	54505	4.785	ug/l	98
82) p-Isopropyltoluene	12.05	119	48926	4.757	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	27199	5.140	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	27233	5.122	ug/l	99
85) n-Butylbenzene	12.37	91	44309	4.654	ug/l	99
86) Hexachloroethane	12.58	117	9470	4.705	ug/l	91
87) 1,2-Dichlorobenzene	12.38	146	24939	5.035	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	3894	4.763	ug/l	95
89) 1,2,4-Trichlorobenzene	13.63	180	16537	4.949	ug/l	97
90) Hexachlorobutadiene	13.77	225	6991	5.500	ug/l	95
91) Naphthalene	13.82	128	49878	4.554	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	16607	5.092	ug/l	97

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

