

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX043020\
 Data File : VX015987.D
 Acq On : 30 Apr 2020 10:32
 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
 5/4/2020 3:10:08 PM

Quant Time: Apr 30 12:40:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 30 12:23:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	53346	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	301886	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	273879	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	125825	30.25	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.83%
60) 4-Bromofluorobenzene	11.12	95	133526	28.79	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.97%
63) Toluene-d8	8.70	98	359092	30.82	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	13706	4.353	ug/l 97
3) Chloromethane	1.32	50	16591	4.824	ug/l 92
4) Vinyl Chloride	1.39	62	20155	5.746	ug/l 95
5) Bromomethane	1.62	94	14578	7.388	ug/l 99
6) Chloroethane	1.71	64	13209	5.937	ug/l 97
7) Trichlorofluoromethane	1.92	101	28484	5.706	ug/l 99
8) Diethyl Ether	2.17	74	12400	6.437	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.36	101	16043	5.480	ug/l 99
10) 1,1-Dichloroethene	2.35	96	15935	5.373	ug/l 98
11) Methyl Iodide	2.49	142	18177	4.615	ug/l 95
12) Methyl Acetate	2.75	43	24215	5.119	ug/l 96
13) Acrolein	2.27	56	11248	22.647	ug/l 98
14) Acrylonitrile	3.12	53	49203	26.386	ug/l 99
15) Acetone	2.42	58	13492	28.135	ug/l 97
16) Carbon Disulfide	2.55	76	49628	5.642	ug/l 99
17) Allyl chloride	2.71	41	28694	4.605	ug/l 96
18) Methylene Chloride	2.83	84	17910	5.396	ug/l 95
19) trans-1,2-Dichloroethene	3.14	96	17028	5.299	ug/l 97
20) Diisopropyl ether	3.82	45	55340	4.868	ug/l 93
21) 1,1-Dichloroethane	3.67	63	31235	5.181	ug/l 98
22) cis-1,2-Dichloroethene	4.56	96	19727	5.368	ug/l 97
23) tert-Butyl Alcohol	3.01	59	23968	26.236	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	55363	5.120	ug/l 99
25) Chloroform	5.18	83	32132	5.328	ug/l 100
26) Cyclohexane	5.54	56	28158	4.936	ug/l # 99
29) 1,1-Dichloropropene	5.76	75	23577	5.122	ug/l 98
30) 2-Butanone	4.63	43	68349	24.926	ug/l 99
31) 2,2-Dichloropropane	4.55	77	29306	5.294	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	28746	5.139	ug/l 98
33) Carbon Tetrachloride	5.76	117	25664	5.063	ug/l 98
34) Benzene	6.11	78	69155	5.191	ug/l 99
35) Methacrylonitrile	5.00	41	14898	4.906	ug/l 93
36) 1,2-Dichloroethane	6.16	62	27204	5.345	ug/l # 89
37) Trichloroethene	7.19	130	27378	6.519	ug/l 99
38) Methylcyclohexane	7.44	83	29312	5.216	ug/l 99
39) 1,2-Dichloropropane	7.49	63	18153	5.167	ug/l 93
40) Dibromomethane	7.64	93	12364	5.185	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.88	83	25211	4.993	ug/l	100
42) Vinyl Acetate	3.78	43	232742	23.961	ug/l	100
43) Ethyl Acetate	4.79	43	27677	4.684	ug/l	99
44) Isopropyl Acetate	6.41	43	44204	4.767	ug/l	99
45) 1,4-Dioxane	7.71	88	9593	107.204	ug/l	97
46) Methyl methacrylate	7.74	41	20279	4.471	ug/l	95
47) n-amyl Acetate	10.88	43	37136	4.608	ug/l	97
48) t-1,3-Dichloropropene	9.02	75	28330	4.852	ug/l	99
49) cis-1,3-Dichloropropene	8.41	75	30006	4.973	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	17135	5.070	ug/l	96
51) Ethyl methacrylate	9.16	69	26440	4.633	ug/l	97
52) 1,3-Dichloropropane	9.35	76	30115	5.153	ug/l	98
53) Dibromochloromethane	9.57	129	18150	4.482	ug/l	96
54) 1,2-Dibromoethane	9.65	107	18891	5.156	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	88765	31.824	ug/l	99
56) Bromoform	10.84	173	12840	3.987	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	132821	25.496	ug/l	100
59) 2-Hexanone	9.47	43	101422	25.416	ug/l	99
61) Tetrachloroethene	9.32	164	28911	6.762	ug/l	98
62) Toluene	8.76	91	76171	5.434	ug/l	99
64) Chlorobenzene	10.12	112	47455	5.266	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.20	131	17465	4.870	ug/l	97
66) Ethyl Benzene	10.24	91	84085	5.272	ug/l	99
67) m/p-Xylenes	10.34	106	63501	10.459	ug/l	97
68) o-Xylene	10.68	106	30253	5.139	ug/l	100
69) Styrene	10.69	104	48687	4.784	ug/l	98
70) Isopropylbenzene	11.00	105	83438	5.308	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	10051	2.418	ug/l	100
72) 1,2,3-Trichloropropane	11.28	75	25186m	5.266	ug/l	
73) Bromobenzene	11.24	156	20647	4.981	ug/l	98
74) n-propylbenzene	11.35	91	96535	5.337	ug/l	100
75) 2-Chlorotoluene	11.40	91	57136	5.256	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	68681	5.124	ug/l	98
77) t-1,4-Dichloro-2-butene	11.06	75	9876	4.815	ug/l	99
78) 4-Chlorotoluene	11.49	91	66036	5.215	ug/l	98
79) tert-butylbenzene	11.76	119	59071	4.663	ug/l	98
80) 1,2,4-Trimethylbenzene	11.79	105	69498	5.147	ug/l	100
81) sec-Butylbenzene	11.93	105	78757	5.107	ug/l	99
82) p-Isopropyltoluene	12.05	119	73385	5.071	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	38100	5.117	ug/l	98
84) 1,4-Dichlorobenzene	12.08	146	37285	5.033	ug/l	98
85) n-Butylbenzene	12.37	91	66399	5.127	ug/l	98
86) Hexachloroethane	12.58	117	12436	4.616	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	36380	5.025	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	6229	4.832	ug/l	95
89) 1,2,4-Trichlorobenzene	13.63	180	26932	4.738	ug/l	98
90) Hexachlorobutadiene	13.76	225	11323	3.961	ug/l	98
91) Naphthalene	13.82	128	82998	4.942	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	25274	4.549	ug/l	98

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

