

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072419\
 Data File : VX011058.D
 Acq On : 24 Jul 2019 13:42
 Operator : JC/SP
 Sample : VX0724WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0724WBS01

Manual Integrations
 APPROVED

MMDadoda

7/25/2019 3:54:50 PM

Quant Time: Jul 25 03:37:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:27:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	36654	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	203026	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	182572	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	72536	29.19	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.30%
60) 4-Bromofluorobenzene	11.13	95	88597	29.48	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.27%
63) Toluene-d8	8.71	98	242651	30.24	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	46946	19.373	ug/l 99
3) Chloromethane	1.33	50	38384	18.013	ug/l 99
4) Vinyl Chloride	1.41	62	41257	18.566	ug/l 97
5) Bromomethane	1.64	94	26250	21.459	ug/l 100
6) Chloroethane	1.73	64	24938	18.969	ug/l 92
7) Trichlorofluoromethane	1.93	101	70981	19.233	ug/l 94
8) Diethyl Ether	2.19	74	23492	19.383	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	40493	19.852	ug/l 98
10) 1,1-Dichloroethene	2.37	96	39151	19.099	ug/l 99
11) Methyl Iodide	2.51	142	47448	17.236	ug/l 99
12) Methyl Acetate	2.78	43	57185	19.862	ug/l 98
13) Acrolein	2.29	56	31958	92.576	ug/l 98
14) Acrylonitrile	3.14	53	112561	99.891	ug/l 99
15) Acetone	2.45	58	36189	115.332	ug/l 91
16) Carbon Disulfide	2.57	76	83486	15.850	ug/l 98
17) Allyl chloride	2.73	41	57900	19.510	ug/l 98
18) Methylene Chloride	2.85	84	43876	19.222	ug/l 98
19) trans-1,2-Dichloroethene	3.17	96	39935	18.441	ug/l 100
20) Diisopropyl ether	3.85	45	122109	19.491	ug/l 99
21) 1,1-Dichloroethane	3.70	63	70050	19.429	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	47301	18.992	ug/l 96
23) tert-Butyl Alcohol	3.04	59	54109	91.970	ug/l 100
24) Methyl tert-Butyl Ether	3.20	73	128412	19.514	ug/l 99
25) Chloroform	5.21	83	76244	19.308	ug/l 100
26) Cyclohexane	5.58	56	59023	17.890	ug/l # 96
29) 1,1-Dichloropropene	5.80	75	53226	18.642	ug/l 98
30) 2-Butanone	4.67	43	158479	102.829	ug/l 99
31) 2,2-Dichloropropane	4.58	77	57282	22.984	ug/l 97
32) 1,1,1-Trichloroethane	5.50	97	67092	19.486	ug/l 99
33) Carbon Tetrachloride	5.78	117	57263	19.128	ug/l 98
34) Benzene	6.15	78	165429	19.315	ug/l 100
35) Methacrylonitrile	5.04	41	30721	19.148	ug/l 97
36) 1,2-Dichloroethane	6.20	62	59300	19.364	ug/l 98
37) Trichloroethene	7.21	130	49074	19.572	ug/l 96
38) Methylcyclohexane	7.46	83	66495	18.454	ug/l 99
39) 1,2-Dichloropropane	7.51	63	41551	19.409	ug/l 99
40) Dibromomethane	7.66	93	29933	19.011	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	55210	19.265	ug/l	99
42) Vinyl Acetate	3.81	43	494940	97.474	ug/l	100
43) Ethyl Acetate	4.84	43	57948	19.588	ug/l	100
44) Isopropyl Acetate	6.44	43	92338	19.163	ug/l	100
45) 1,4-Dioxane	7.74	88	25370	404.512	ug/l	97
46) Methyl methacrylate	7.77	41	44682	19.104	ug/l	96
47) n-amyl Acetate	10.90	43	81797	18.927	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	56969	18.862	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	64316	19.513	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	46610	20.227	ug/l	97
51) Ethyl methacrylate	9.18	69	67279	18.878	ug/l	97
52) 1,3-Dichloropropane	9.37	76	73025	19.721	ug/l	100
53) Dibromochloromethane	9.58	129	46096	18.523	ug/l	97
54) 1,2-Dibromoethane	9.67	107	49718	19.854	ug/l	96
55) 2-Chloroethyl vinyl ether	8.31	63	146505	97.076	ug/l	99
56) Bromoform	10.85	173	33731	18.199	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	308071	99.915	ug/l	99
59) 2-Hexanone	9.49	43	241240	102.247	ug/l	100
61) Tetrachloroethene	9.34	164	48006	19.915	ug/l	96
62) Toluene	8.78	91	189555	19.544	ug/l	100
64) Chlorobenzene	10.13	112	122178	19.662	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	44336	19.631	ug/l	99
66) Ethyl Benzene	10.25	91	209168	19.157	ug/l	99
67) m/p-Xylenes	10.36	106	163889	39.232	ug/l	99
68) o-Xylene	10.69	106	78806	19.253	ug/l	98
69) Styrene	10.71	104	134216	19.508	ug/l	99
70) Isopropylbenzene	11.02	105	215431	19.765	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	69388	19.743	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	58887m	20.074	ug/l	
73) Bromobenzene	11.25	156	56675	19.272	ug/l	98
74) n-propylbenzene	11.36	91	241000	19.646	ug/l	100
75) 2-Chlorotoluene	11.42	91	142044	19.442	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	180953	19.614	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	19598	20.248	ug/l	95
78) 4-Chlorotoluene	11.51	91	165242	19.693	ug/l	99
79) tert-butylbenzene	11.77	119	178584	19.956	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	179466	19.317	ug/l	99
81) sec-Butylbenzene	11.94	105	212003	20.098	ug/l	99
82) p-Isopropyltoluene	12.06	119	192765	19.693	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	100990	19.452	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	100701	19.515	ug/l	100
85) n-Butylbenzene	12.38	91	163492	19.615	ug/l	100
86) Hexachloroethane	12.59	117	28852	18.689	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	101356	19.940	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	15420	19.930	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	68741	19.607	ug/l	99
90) Hexachlorobutadiene	13.78	225	34804	20.532	ug/l	100
91) Naphthalene	13.83	128	213152	19.925	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	72529	20.640	ug/l	97

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

