

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040219\
 Data File : VX008588.D
 Acq On : 02 Apr 2019 12:04
 Operator : JC/SP
 Sample : VX0402WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0402WBS01

Manual Integrations
 APPROVED

MMDadoda
 4/3/2019 10:48:30 AM

Quant Time: Apr 02 15:26:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 12:01:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	33825	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	192829	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	171952	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	83988	29.68	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.93%
60) 4-Bromofluorobenzene	11.13	95	88605m	29.57	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.57%
63) Toluene-d8	8.71	98	247181	30.28	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.93%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	42104	18.204	ug/l 98
3) Chloromethane	1.32	50	57787	19.069	ug/l 95
4) Vinyl Chloride	1.40	62	55257	18.090	ug/l 98
5) Bromomethane	1.64	94	22957	14.505	ug/l 97
6) Chloroethane	1.72	64	33164	16.588	ug/l 98
7) Trichlorofluoromethane	1.93	101	61969	18.278	ug/l 98
8) Diethyl Ether	2.19	74	29980	18.751	ug/l 82
9) 1,1,2-Trichlorotrifluoroet	2.38	101	38856	18.403	ug/l 92
10) 1,1-Dichloroethene	2.37	96	40071	18.707	ug/l 83
11) Methyl Iodide	2.51	142	28310	12.764	ug/l 96
12) Methyl Acetate	3.20	43	32876m	18.937	ug/l
13) Acrolein	2.29	56	48641	97.663	ug/l 100
14) Acrylonitrile	3.14	53	160583	100.047	ug/l 99
15) Acetone	2.44	58	47722	96.416	ug/l 95
16) Carbon Disulfide	2.57	76	118955	17.852	ug/l 98
17) Allyl chloride	2.73	41	91041	18.911	ug/l 93
18) Methylene Chloride	2.85	84	48903	19.099	ug/l # 84
19) trans-1,2-Dichloroethene	3.17	96	42813	18.708	ug/l 88
20) Diisopropyl ether	3.85	45	180759	19.292	ug/l # 87
21) 1,1-Dichloroethane	3.70	63	89140	18.953	ug/l 96
22) cis-1,2-Dichloroethene	4.59	96	49863	18.855	ug/l # 82
23) tert-Butyl Alcohol	3.04	59	63219	97.540	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	148089	18.812	ug/l 99
25) Chloroform	5.21	83	80720	18.947	ug/l 99
26) Cyclohexane	5.58	56	85526	18.718	ug/l # 83
29) 1,1-Dichloropropene	5.80	75	62244	19.187	ug/l 93
30) 2-Butanone	4.67	43	242646	101.716	ug/l 93
31) 2,2-Dichloropropane	4.59	77	62227	19.206	ug/l 95
32) 1,1,1-Trichloroethane	5.49	97	64265	19.077	ug/l # 94
33) Carbon Tetrachloride	5.79	117	52727	18.707	ug/l 96
34) Benzene	6.14	78	192132	19.375	ug/l # 95
35) Methacrylonitrile	5.04	41	48874	20.146	ug/l 92
36) 1,2-Dichloroethane	6.20	62	70249	19.870	ug/l 97
37) Trichloroethene	7.21	130	43334	19.002	ug/l # 80
38) Methylcyclohexane	7.46	83	76979	18.831	ug/l 88
39) 1,2-Dichloropropane	7.51	63	54266	19.294	ug/l 98
40) Dibromomethane	7.66	93	31140	19.112	ug/l 89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	61525	19.205	ug/l	98
42) Vinyl Acetate	3.81	43	803215	99.325	ug/l #	94
43) Ethyl Acetate	4.83	43	89094	20.751	ug/l #	80
44) Isopropyl Acetate	6.45	43	135869	19.570	ug/l	98
45) 1,4-Dioxane	7.74	88	27758	401.632	ug/l #	82
46) Methyl methacrylate	7.77	41	68348	19.384	ug/l	87
47) n-amyl Acetate	10.90	43	119002	18.870	ug/l	95
48) t-1,3-Dichloropropene	9.04	75	66760	18.449	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	75837	18.737	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	45719	18.898	ug/l	96
51) Ethyl methacrylate	9.18	69	85070	18.896	ug/l	91
52) 1,3-Dichloropropane	9.37	76	84607	19.657	ug/l	98
53) Dibromochloromethane	9.58	129	43573	18.302	ug/l	98
54) 1,2-Dibromoethane	9.67	107	47005	18.848	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	227642	100.228	ug/l	95
56) Bromoform	10.85	173	30837	17.773	ug/l	97
58) 4-Methyl-2-Pentanone	8.64	43	457748	100.906	ug/l	95
59) 2-Hexanone	9.49	43	359030	100.177	ug/l	96
61) Tetrachloroethene	9.34	164	37625	20.004	ug/l	97
62) Toluene	8.78	91	201892	19.392	ug/l	99
64) Chlorobenzene	10.13	112	116091	19.030	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	40542	18.850	ug/l	98
66) Ethyl Benzene	10.25	91	219468	18.992	ug/l	96
67) m/p-Xylenes	10.36	106	157730	37.423	ug/l	91
68) o-Xylene	10.69	106	77520	18.795	ug/l	92
69) Styrene	10.71	104	133021	18.535	ug/l	96
70) Isopropylbenzene	11.02	105	205136	18.855	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.27	83	79063	19.452	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	68127m	19.830	ug/l	
73) Bromobenzene	11.26	156	47488	18.346	ug/l	74
74) n-propylbenzene	11.36	91	240337	18.543	ug/l	94
75) 2-Chlorotoluene	11.42	91	145216	18.832	ug/l	89
76) 1,3,5-Trimethylbenzene	11.51	105	172247	18.518	ug/l	96
77) t-1,4-Dichloro-2-butene	11.07	75	24188	18.355	ug/l	97
78) 4-Chlorotoluene	11.51	91	161707	18.221	ug/l	90
79) tert-butylbenzene	12.06	119	175407	18.453	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	171884	18.533	ug/l	97
81) sec-Butylbenzene	11.94	105	197967	18.627	ug/l	96
82) p-Isopropyltoluene	12.06	119	175407	18.453	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	85161	18.532	ug/l	96
84) 1,4-Dichlorobenzene	12.10	146	84015	18.295	ug/l	97
85) n-Butylbenzene	12.38	91	160854	17.810	ug/l	96
86) Hexachloroethane	12.60	117	28870	18.177	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	86696	18.723	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	17710	19.659	ug/l #	75
89) 1,2,4-Trichlorobenzene	13.65	180	57898	18.127	ug/l	98
90) Hexachlorobutadiene	13.78	225	28887	18.773	ug/l	99
91) Naphthalene	13.83	128	207566	18.968	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	60081	18.674	ug/l	99

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

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