

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021319\
 Data File : VX007508.D
 Acq On : 13 Feb 2019 03:02
 Operator : JC/SP
 Sample : VX0213WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0213WBS01

Manual Integrations
 APPROVED

MMDadoda
 2/13/2019 11:53:09 AM

Quant Time: Feb 13 08:09:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 13 07:51:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	76538	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	393287	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	349349	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	148172	29.93	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.77%
60) 4-Bromofluorobenzene	11.13	95	161883	30.19	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.63%
63) Toluene-d8	8.71	98	470934	29.83	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	71641	18.484	ug/l 99
3) Chloromethane	1.33	50	86436	20.292	ug/l 97
4) Vinyl Chloride	1.41	62	92391	19.283	ug/l 99
5) Bromomethane	1.64	94	72134	16.859	ug/l 95
6) Chloroethane	1.73	64	60761	18.656	ug/l 93
7) Trichlorofluoromethane	1.93	101	137273	18.277	ug/l 98
8) Diethyl Ether	2.19	74	59438	19.811	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	74376	17.552	ug/l 98
10) 1,1-Dichloroethene	2.38	96	79328	18.866	ug/l 98
11) Methyl Iodide	2.51	142	103986	17.207	ug/l 95
12) Methyl Acetate	2.78	43	109524	18.887	ug/l 100
13) Acrolein	2.30	56	84865	83.897	ug/l 99
14) Acrylonitrile	3.15	53	264582	99.025	ug/l 98
15) Acetone	2.45	58	69845	96.322	ug/l 92
16) Carbon Disulfide	2.57	76	207394	18.599	ug/l 99
17) Allyl chloride	2.73	41	139250	19.329	ug/l 100
18) Methylene Chloride	2.86	84	94841	20.057	ug/l 94
19) trans-1,2-Dichloroethene	3.17	96	83020	18.460	ug/l 97
20) Diisopropyl ether	3.87	45	275497	20.235	ug/l 97
21) 1,1-Dichloroethane	3.70	63	151692	19.873	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	99053	19.791	ug/l 98
23) tert-Butyl Alcohol	3.07	59	110028	97.975	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	292414	20.039	ug/l 97
25) Chloroform	5.21	83	159226	19.751	ug/l 95
26) Cyclohexane	5.58	56	117381	18.339	ug/l # 98
29) 1,1-Dichloropropene	5.80	75	104777	19.099	ug/l 99
30) 2-Butanone	4.70	43	338742	104.340	ug/l 98
31) 2,2-Dichloropropane	4.58	77	76260	17.110	ug/l 97
32) 1,1,1-Trichloroethane	5.50	97	128344	19.573	ug/l 99
33) Carbon Tetrachloride	5.78	117	109438	18.880	ug/l 92
34) Benzene	6.15	78	353513	20.441	ug/l 98
35) Methacrylonitrile	5.06	41	70302	20.827	ug/l 95
36) 1,2-Dichloroethane	6.20	62	123285	20.947	ug/l 99
37) Trichloroethene	7.21	130	98087	19.727	ug/l 94
38) Methylcyclohexane	7.46	83	118120	18.600	ug/l 99
39) 1,2-Dichloropropane	7.51	63	88881	20.662	ug/l 98
40) Dibromomethane	7.66	93	64590	20.790	ug/l 97

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

41) Bromodichloromethane	7.90	83	110505	20.043	ug/l	99
42) Vinyl Acetate	3.82	43	1193017	104.985	ug/l	100
43) Ethyl Acetate	4.85	43	127938	20.578	ug/l #	81
44) Isopropyl Acetate	6.46	43	196990	20.521	ug/l	99
45) 1,4-Dioxane	7.75	88	45266	399.565	ug/l	97
46) Methyl methacrylate	7.77	41	102006	20.985	ug/l	99
47) n-amyl Acetate	10.90	43	173143	20.464	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	109401	19.221	ug/l	95
49) cis-1,3-Dichloropropene	8.44	75	122804	19.376	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	96923	21.396	ug/l	94
51) Ethyl methacrylate	9.18	69	136031	20.713	ug/l	99
52) 1,3-Dichloropropane	9.37	76	154365	21.126	ug/l	98
53) Dibromochloromethane	9.59	129	94836	20.128	ug/l	99
54) 1,2-Dibromoethane	9.67	107	103560	20.878	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	329052	98.552	ug/l	99
56) Bromoform	10.86	173	68739	19.342	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	672630	107.042	ug/l	100
59) 2-Hexanone	9.49	43	512639	107.406	ug/l	99
61) Tetrachloroethene	9.34	164	97647	19.690	ug/l	97
62) Toluene	8.79	91	381976	20.076	ug/l	99
64) Chlorobenzene	10.14	112	252040	20.385	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	89216	19.921	ug/l	98
66) Ethyl Benzene	10.25	91	392180	19.425	ug/l	100
67) m/p-Xylenes	10.36	106	308731	38.986	ug/l	99
68) o-Xylene	10.69	106	152405	19.733	ug/l	99
69) Styrene	10.71	104	247793	19.881	ug/l	100
70) Isopropylbenzene	11.02	105	395445	19.407	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	143238	21.266	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	133890m	21.740	ug/l	
73) Bromobenzene	11.26	156	113231	20.354	ug/l	99
74) n-propylbenzene	11.36	91	431731	19.083	ug/l	99
75) 2-Chlorotoluene	11.42	91	265207	19.605	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	324459	19.507	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	32927	18.522	ug/l	98
78) 4-Chlorotoluene	11.51	91	298599	19.338	ug/l	99
79) tert-butylbenzene	12.06	119	335212	18.980	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	332113	19.670	ug/l	100
81) sec-Butylbenzene	11.94	105	382992	19.282	ug/l	100
82) p-Isopropyltoluene	12.06	119	335212	18.980	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	193530	19.789	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	192877	19.764	ug/l	98
85) n-Butylbenzene	12.39	91	270277	18.441	ug/l	99
86) Hexachloroethane	12.60	117	54116	18.455	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	200858	20.463	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	28974	20.613	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	128342	19.908	ug/l	100
90) Hexachlorobutadiene	13.78	225	55736	18.504	ug/l	99
91) Naphthalene	13.83	128	422626	20.555	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	131781	20.108	ug/l	98

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

