

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX080718\
 Data File : VX003898.D
 Acq On : 08 Aug 2018 00:05
 Operator : JC/MD
 Sample : VX0807WBSD02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0807WBSD02

Manual Integrations
 APPROVED

apatel
 8/13/2018 5:33:55 PM

Quant Time: Aug 13 16:59:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 27 16:17:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	69063	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	371844	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	345210	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	142570	28.12	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	93.73%
60) 4-Bromofluorobenzene	11.14	95	161867	29.12	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.07%
63) Toluene-d8	8.72	98	461658	29.69	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.97%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	96290	26.40	ug/l	100
3) Chloromethane	1.32	50	98294	20.02	ug/l	98
4) Vinyl Chloride	1.40	62	100052	19.38	ug/l	100
5) Bromomethane	1.64	94	59758	19.36	ug/l	99
6) Chloroethane	1.72	64	76047	22.50	ug/l	99
7) Trichlorofluoromethane	1.93	101	130305	18.76	ug/l	99
8) Diethyl Ether	2.19	74	55482	18.64	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.38	101	79402	18.86	ug/l	92
10) 1,1-Dichloroethene	2.37	96	73879	18.66	ug/l	95
11) Methyl Iodide	2.51	142	93580	17.05	ug/l	96
12) Methyl Acetate	2.78	43	155622	21.24	ug/l	93
13) Acrolein	2.29	56	72953	127.67	ug/l	98
14) Acrylonitrile	3.15	53	259984	90.06	ug/l	99
15) Acetone	2.45	58	73771	94.17	ug/l	73
16) Carbon Disulfide	2.57	76	198411	18.04	ug/l	99
17) Allyl chloride	2.73	41	139884	17.07	ug/l	93
18) Methylene Chloride	2.86	84	88240	18.81	ug/l	96
19) trans-1,2-Dichloroethene	3.16	96	79026	18.46	ug/l	97
20) Diisopropyl ether	3.87	45	255169	16.96	ug/l	97
21) 1,1-Dichloroethane	3.70	63	158140	18.56	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	89311	20.66	ug/l #	69
23) tert-Butyl Alcohol	3.07	59	114878	94.74	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	258855m	18.23	ug/l	
25) Chloroform	5.22	83	146371	19.84	ug/l	98
26) Cyclohexane	5.57	56	124956	19.52	ug/l #	90
29) 1,1-Dichloropropene	5.80	75	109648	19.97	ug/l	99
30) 2-Butanone	4.71	43	330518	94.26	ug/l	93
31) 2,2-Dichloropropane	4.59	77	79116	14.87	ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	124309	19.79	ug/l	98
33) Carbon Tetrachloride	5.78	117	105377	19.30	ug/l	98
34) Benzene	6.14	78	340832	20.20	ug/l	97
35) Methacrylonitrile	5.07	41	68570	18.82	ug/l	89
36) 1,2-Dichloroethane	6.20	62	116817	19.26	ug/l #	94
37) Trichloroethene	7.21	130	89242	20.30	ug/l	92
38) Methylcyclohexane	7.46	83	121593	19.49	ug/l	95
39) 1,2-Dichloropropane	7.52	63	84721	19.00	ug/l	98
40) Dibromomethane	7.67	93	56040	19.42	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	104681	18.99	ug/l	98
42) Vinyl Acetate	3.82	43	1009634	74.93	ug/l	96
43) Ethyl Acetate	4.87	43	118828	18.14	ug/l	97
44) Isopropyl Acetate	6.47	43	181186	18.03	ug/l	93
45) 1,4-Dioxane	7.76	88	45311	406.11	ug/l #	84
46) Methyl methacrylate	7.78	41	95183	18.36	ug/l	90
47) n-amyl Acetate	10.90	43	152332	16.06	ug/l #	88
48) t-1,3-Dichloropropene	8.44	75	120858	18.07	ug/l	99
49) cis-1,3-Dichloropropene	9.04	75	107910	17.20	ug/l	93
50) 1,1,2-Trichloroethane	9.22	97	86754	18.94	ug/l	97
51) Ethyl methacrylate	9.18	69	119781	17.37	ug/l	84
52) 1,3-Dichloropropane	9.37	76	146444	19.21	ug/l	99
53) Dibromochloromethane	9.59	129	81383	18.09	ug/l	99
54) 1,2-Dibromoethane	9.68	107	88254	18.43	ug/l	98
55) 2-Chloroethyl vinyl ether	8.32	63	320468	90.10	ug/l	98
56) Bromoform	10.86	173	61888	17.73	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	636975	97.72	ug/l #	91
59) 2-Hexanone	9.50	43	486109	93.66	ug/l	91
61) Tetrachloroethene	9.34	164	87147	21.69	ug/l	99
62) Toluene	8.79	91	366282	20.44	ug/l	100
64) Chlorobenzene	10.14	112	237344	20.50	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	81916	19.99	ug/l	98
66) Ethyl Benzene	10.26	91	393640	19.96	ug/l	99
67) m/p-Xylenes	10.36	106	309099	40.70	ug/l	96
68) o-Xylene	10.70	106	147501	20.30	ug/l	95
69) Styrene	10.71	104	245649	19.97	ug/l	95
70) Isopropylbenzene	11.02	105	396820	19.84	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	136524	19.12	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	118057m	19.87	ug/l	
73) Bromobenzene	11.26	156	104795	19.44	ug/l	99
74) n-propylbenzene	11.36	91	454738	19.30	ug/l	99
75) 2-Chlorotoluene	11.42	91	276515	19.91	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	329985	19.44	ug/l	97
77) t-1,4-Dichloro-2-butene	11.08	75	31908	15.76	ug/l	94
78) 4-Chlorotoluene	11.51	91	310016	19.08	ug/l	99
79) tert-butylbenzene	12.07	119	323291	18.51	ug/l	97
80) 1,2,4-Trimethylbenzene	11.81	105	339695	19.56	ug/l	97
81) sec-Butylbenzene	11.95	105	371474	18.79	ug/l	100
82) p-Isopropyltoluene	12.07	119	323291	18.51	ug/l	97
83) 1,3-Dichlorobenzene	12.03	146	182100	18.50	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	184380	18.60	ug/l	96
85) n-Butylbenzene	12.39	91	263198	16.98	ug/l	99
86) Hexachloroethane	12.60	117	45642	16.22	ug/l	94
87) 1,2-Dichlorobenzene	12.39	146	179323	18.14	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	23785	15.78	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	130535	18.81	ug/l	99
90) Hexachlorobutadiene	13.79	225	61041	19.41	ug/l	99
91) Naphthalene	13.83	128	415410	19.59	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	140304	19.86	ug/l	99

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

