

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072718\
 Data File : VX003715.D
 Acq On : 27 Jul 2018 14:24
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 7/30/2018 3:42:29 PM

Quant Time: Jul 28 02:19:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 27 14:47:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	22570	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	118315	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	110305	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	48101	31.20	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.00%
60) 4-Bromofluorobenzene	11.14	95	53706	30.30	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.00%
63) Toluene-d8	8.72	98	152478	31.27	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	51673	30.160	ug/l 99
3) Chloromethane	1.32	50	73267	43.058	ug/l 99
4) Vinyl Chloride	1.40	62	75454	40.669	ug/l 100
5) Bromomethane	1.64	94	44985	58.478	ug/l 99
6) Chloroethane	1.71	64	48099	43.498	ug/l 97
7) Trichlorofluoromethane	1.92	101	102191	41.344	ug/l 97
8) Diethyl Ether	2.19	74	43254	42.793	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.38	101	61415	40.591	ug/l 95
10) 1,1-Dichloroethene	2.37	96	57995	41.309	ug/l 96
11) Methyl Iodide	2.51	142	83389	56.134	ug/l 96
12) Methyl Acetate	2.78	43	113108	49.625	ug/l 98
13) Acrolein	2.29	56	48316	272.815	ug/l 99
14) Acrylonitrile	3.15	53	215306	251.005	ug/l 99
15) Acetone	2.45	58	57188	254.318	ug/l 82
16) Carbon Disulfide	2.57	76	161784	40.343	ug/l 100
17) Allyl chloride	2.73	41	123051	46.079	ug/l 93
18) Methylene Chloride	2.85	84	68531	41.596	ug/l 100
19) trans-1,2-Dichloroethene	3.16	96	63119	41.691	ug/l 96
20) Diisopropyl ether	3.88	45	231240	47.924	ug/l 98
21) 1,1-Dichloroethane	3.70	63	126749	44.790	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	67800	42.121	ug/l # 76
23) tert-Butyl Alcohol	3.08	59	90696	254.656	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	211061	45.015	ug/l 92
25) Chloroform	5.22	83	115572	45.350	ug/l 100
26) Cyclohexane	5.57	56	102288	46.303	ug/l # 98
29) 1,1-Dichloropropene	5.80	75	85923	46.058	ug/l 100
30) 2-Butanone	4.71	43	275186	264.001	ug/l 96
31) 2,2-Dichloropropane	4.59	77	83551	41.469	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	98152	46.473	ug/l 99
33) Carbon Tetrachloride	5.78	117	84892	45.800	ug/l 94
34) Benzene	6.15	78	267621	48.717	ug/l 96
35) Methacrylonitrile	5.07	41	56848	51.549	ug/l 92
36) 1,2-Dichloroethane	6.20	62	93265	48.823	ug/l 97
37) Trichloroethene	7.22	130	67388	44.360	ug/l 89
38) Methylcyclohexane	7.46	83	98318	46.628	ug/l 98
39) 1,2-Dichloropropane	7.52	63	69793	49.171	ug/l 98
40) Dibromomethane	7.67	93	44312	47.538	ug/l 97

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

41) Bromodichloromethane	7.90	83	85146	48.883	ug/l	98
42) Vinyl Acetate	3.83	43	1005698	251.140	ug/l	100
43) Ethyl Acetate	4.87	43	101869	51.451	ug/l	96
44) Isopropyl Acetate	6.47	43	157179	51.794	ug/l	96
45) 1,4-Dioxane	7.76	88	34737	1072.412	ug/l #	87
46) Methyl methacrylate	7.78	41	83243	53.044	ug/l	92
47) n-amyl Acetate	10.90	43	144631	55.332	ug/l #	89
48) t-1,3-Dichloropropene	8.44	75	104558	49.322	ug/l	98
49) cis-1,3-Dichloropropene	9.04	75	96174	50.096	ug/l	94
50) 1,1,2-Trichloroethane	9.22	97	68351	48.616	ug/l	98
51) Ethyl methacrylate	9.18	69	104877	51.187	ug/l	89
52) 1,3-Dichloropropane	9.38	76	113235	49.037	ug/l	99
53) Dibromochloromethane	9.59	129	67454	48.008	ug/l	99
54) 1,2-Dibromoethane	9.68	107	70506	48.358	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	277977	287.572	ug/l	99
56) Bromoform	10.86	173	52672	49.031	ug/l	100
58) 4-Methyl-2-Pentanone	8.65	43	540306	274.973	ug/l	95
59) 2-Hexanone	9.50	43	419424	278.695	ug/l	95
61) Tetrachloroethene	9.34	164	61456	36.402	ug/l	97
62) Toluene	8.79	91	287662	47.800	ug/l	99
64) Chlorobenzene	10.14	112	181780	45.614	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	65217	46.137	ug/l	99
66) Ethyl Benzene	10.26	91	314022	47.221	ug/l	100
67) m/p-Xylenes	10.36	106	245981	95.061	ug/l	99
68) o-Xylene	10.70	106	117163	47.059	ug/l	98
69) Styrene	10.71	104	201796	48.759	ug/l	97
70) Isopropylbenzene	11.02	105	318325	48.220	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	110273	53.260	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	95087m	39.265	ug/l	
73) Bromobenzene	11.26	156	82220	44.805	ug/l	99
74) n-propylbenzene	11.36	91	376988	49.029	ug/l	100
75) 2-Chlorotoluene	11.42	91	218908	47.596	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	271450	48.592	ug/l	100
77) t-1,4-Dichloro-2-butene	11.08	75	32498	56.192	ug/l	98
78) 4-Chlorotoluene	11.51	91	256155	47.678	ug/l	99
79) tert-butylbenzene	12.07	119	284185	48.033	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	279351	49.213	ug/l	99
81) sec-Butylbenzene	11.95	105	316425	47.877	ug/l	99
82) p-Isopropyltoluene	12.07	119	284185	48.033	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	154034	45.304	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	155302	45.256	ug/l	100
85) n-Butylbenzene	12.39	91	251551	48.426	ug/l	100
86) Hexachloroethane	12.60	117	45029	51.704	ug/l	97
87) 1,2-Dichlorobenzene	12.40	146	155037	45.616	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	24785	57.620	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	111165	45.557	ug/l	100
90) Hexachlorobutadiene	13.79	225	49495	41.398	ug/l	98
91) Naphthalene	13.83	128	355437	50.507	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	114343	46.222	ug/l	100

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

