

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072018\
 Data File : VX003501.D
 Acq On : 20 Jul 2018 11:26
 Operator : JC/SP
 Sample : VX0720WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0720WBS01

Manual Integrations
 APPROVED

MMDadoda
 7/23/2018 12:34:41 PM

Quant Time: Jul 20 12:07:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 12 13:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	59674	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	320311	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	292953	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	118208	29.00	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.67%
60) 4-Bromofluorobenzene	11.14	95	140691	29.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.63%
63) Toluene-d8	8.72	98	401913	31.03	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.43%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	52985	11.70	ug/l	98
3) Chloromethane	1.32	50	68865	15.31	ug/l	95
4) Vinyl Chloride	1.40	62	76362	15.57	ug/l	100
5) Bromomethane	1.64	94	40262	19.80	ug/l	97
6) Chloroethane	1.73	64	49187	16.82	ug/l	96
7) Trichlorofluoromethane	1.93	101	108043	16.53	ug/l	99
8) Diethyl Ether	2.19	74	45758	17.12	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.39	101	68126	17.03	ug/l	99
10) 1,1-Dichloroethene	2.37	96	63255	17.04	ug/l	90
11) Methyl Iodide	2.51	142	65880	20.22	ug/l	92
12) Methyl Acetate	2.78	43	96630	16.03	ug/l	96
13) Acrolein	2.29	56	32648	69.72	ug/l	98
14) Acrylonitrile	3.15	53	200027	88.20	ug/l	98
15) Acetone	2.45	58	55254	92.94	ug/l	76
16) Carbon Disulfide	2.57	76	174262	16.44	ug/l	100
17) Allyl chloride	2.73	41	122119	17.30	ug/l	93
18) Methylene Chloride	2.86	84	74471	17.10	ug/l	91
19) trans-1,2-Dichloroethene	3.17	96	70148	17.52	ug/l	96
20) Diisopropyl ether	3.87	45	225346	17.66	ug/l	98
21) 1,1-Dichloroethane	3.70	63	131087	17.52	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	78689	18.49	ug/l	82
23) tert-Butyl Alcohol	3.06	59	84604	89.85	ug/l	# 100
24) Methyl tert-Butyl Ether	3.20	73	218156	17.60	ug/l	# 90
25) Chloroform	5.21	83	124051	18.41	ug/l	100
26) Cyclohexane	5.57	56	109127	18.68	ug/l	# 93
29) 1,1-Dichloropropene	5.80	75	93126	18.44	ug/l	98
30) 2-Butanone	4.70	43	256030	90.73	ug/l	93
31) 2,2-Dichloropropane	4.58	77	95541	17.52	ug/l	97
32) 1,1,1-Trichloroethane	5.50	97	104568	18.29	ug/l	98
33) Carbon Tetrachloride	5.79	117	92909	18.51	ug/l	90
34) Benzene	6.15	78	283943	19.09	ug/l	97
35) Methacrylonitrile	5.06	41	54376	18.21	ug/l	94
36) 1,2-Dichloroethane	6.20	62	95280	18.42	ug/l	# 95
37) Trichloroethene	7.21	130	82953	20.17	ug/l	92
38) Methylcyclohexane	7.46	83	108280	18.97	ug/l	97
39) 1,2-Dichloropropane	7.52	63	74336	19.34	ug/l	96
40) Dibromomethane	7.67	93	47525	18.83	ug/l	95

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	88644	18.80	ug/l	97
42) Vinyl Acetate	3.82	43	961198	88.66	ug/l	98
43) Ethyl Acetate	4.85	43	100465	18.74	ug/l	98
44) Isopropyl Acetate	6.46	43	146799	17.87	ug/l	93
45) 1,4-Dioxane	7.76	88	33490	381.90	ug/l #	84
46) Methyl methacrylate	7.78	41	74497	17.53	ug/l	87
47) n-amyl Acetate	10.90	43	115133	16.27	ug/l #	88
48) t-1,3-Dichloropropene	8.44	75	107175	18.67	ug/l	98
49) cis-1,3-Dichloropropene	9.04	75	94905	18.26	ug/l	93
50) 1,1,2-Trichloroethane	9.22	97	72460	19.04	ug/l	99
51) Ethyl methacrylate	9.18	69	100004	18.03	ug/l	84
52) 1,3-Dichloropropane	9.37	76	120157	19.22	ug/l	100
53) Dibromochloromethane	9.59	129	70753	18.60	ug/l	100
54) 1,2-Dibromoethane	9.68	107	75925	19.24	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	246681	94.26	ug/l	98
56) Bromoform	10.86	173	53854	18.52	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	485372	93.01	ug/l	93
59) 2-Hexanone	9.50	43	365544	91.46	ug/l	93
61) Tetrachloroethene	9.34	164	97098	21.66	ug/l	99
62) Toluene	8.79	91	316118	19.78	ug/l	99
64) Chlorobenzene	10.14	112	205348	19.40	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	72896	19.42	ug/l	99
66) Ethyl Benzene	10.26	91	334488	18.94	ug/l	98
67) m/p-Xylenes	10.36	106	264545	38.49	ug/l	97
68) o-Xylene	10.70	106	123127	18.62	ug/l	98
69) Styrene	10.71	104	209630	19.07	ug/l	97
70) Isopropylbenzene	11.02	105	342666	19.54	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	103036	18.74	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	90806m	14.12	ug/l	
73) Bromobenzene	11.26	156	92843	19.05	ug/l	95
74) n-propylbenzene	11.36	91	389205	19.06	ug/l	99
75) 2-Chlorotoluene	11.42	91	234105	19.17	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	283741	19.12	ug/l	98
77) t-1,4-Dichloro-2-butene	11.08	75	27564	17.95	ug/l	98
78) 4-Chlorotoluene	11.51	91	271181	19.01	ug/l	98
79) tert-butylbenzene	12.07	119	294631	18.75	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	289395	19.20	ug/l	97
81) sec-Butylbenzene	11.95	105	333771	19.02	ug/l	100
82) p-Isopropyltoluene	12.07	119	294631	18.75	ug/l	98
83) 1,3-Dichlorobenzene	12.03	146	168876	18.70	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	169109	18.55	ug/l	99
85) n-Butylbenzene	12.39	91	249577	18.09	ug/l	99
86) Hexachloroethane	12.60	117	38829	16.79	ug/l	96
87) 1,2-Dichlorobenzene	12.40	146	169040	18.73	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	19234	16.84	ug/l	92
89) 1,2,4-Trichlorobenzene	13.65	180	118236	18.24	ug/l	99
90) Hexachlorobutadiene	13.79	225	57328	18.05	ug/l	99
91) Naphthalene	13.83	128	336444	18.00	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	122432	18.63	ug/l	99

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

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