

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061818\
 Data File : VX002681.D
 Acq On : 18 Jun 2018 14:29
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 6/19/2018 1:05:30 PM

Quant Time: Jun 18 15:13:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X061818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 18 14:58:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	44293	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	250790	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	238515	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	101572	29.14	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.13%
60) 4-Bromofluorobenzene	11.14	95	122050	29.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.63%
63) Toluene-d8	8.72	98	307958	28.97	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.57%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	301915	128.39	ug/l	100
3) Chloromethane	1.32	50	319710	114.30	ug/l	99
4) Vinyl Chloride	1.41	62	371285	133.43	ug/l	100
5) Bromomethane	1.64	94	211113	135.42	ug/l	100
6) Chloroethane	1.71	64	254504	154.61	ug/l	96
7) Trichlorofluoromethane	1.92	101	668839	157.60	ug/l	100
8) Diethyl Ether	2.19	74	244545	153.10	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.38	101	383587	167.83	ug/l	98
10) 1,1-Dichloroethene	2.37	96	339961	154.27	ug/l	99
11) Methyl Iodide	2.51	142	510056	147.33	ug/l	99
12) Methyl Acetate	2.78	43	567519	158.88	ug/l	100
13) Acrolein	2.30	56	171381	563.54	ug/l	98
14) Acrylonitrile	3.16	53	1053076	716.60	ug/l	99
15) Acetone	2.46	58	275448	703.11	ug/l	96
16) Carbon Disulfide	2.56	76	879887	139.83	ug/l	100
17) Allyl chloride	2.73	41	688788	151.44	ug/l	96
18) Methylene Chloride	2.86	84	387633	156.51	ug/l	98
19) trans-1,2-Dichloroethene	3.16	96	367084	157.55	ug/l	99
20) Diisopropyl ether	3.88	45	1276456	146.98	ug/l	97
21) 1,1-Dichloroethane	3.70	63	662592	143.34	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	401258	144.45	ug/l #	74
23) tert-Butyl Alcohol	3.10	59	448563	588.50	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	1293658	150.40	ug/l	99
25) Chloroform	5.22	83	700193	144.06	ug/l	100
26) Cyclohexane	5.57	56	584855	137.47	ug/l #	95
29) 1,1-Dichloropropene	5.80	75	506734	144.42	ug/l	98
30) 2-Butanone	4.72	43	1422148	581.07	ug/l	97
31) 2,2-Dichloropropane	4.59	77	539031	174.80	ug/l	99
32) 1,1,1-Trichloroethane	5.50	97	629258	137.31	ug/l	99
33) Carbon Tetrachloride	5.79	117	573394	137.69	ug/l	96
34) Benzene	6.15	78	1491485	140.77	ug/l	99
35) Methacrylonitrile	5.07	41	325503	120.10	ug/l	97
36) 1,2-Dichloroethane	6.20	62	580212	140.55	ug/l	99
37) Trichloroethene	7.22	130	439092	146.09	ug/l	88
38) Methylcyclohexane	7.46	83	619162	151.24	ug/l	97
39) 1,2-Dichloropropane	7.52	63	390794	136.41	ug/l	97
40) Dibromomethane	7.67	93	274298	142.71	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	543822	136.38	ug/l	98
42) Vinyl Acetate	3.83	43	5444119	703.10	ug/l	99
43) Ethyl Acetate	4.87	43	567846	118.20	ug/l	98
44) Isopropyl Acetate	6.48	43	969159	121.32	ug/l	100
45) 1,4-Dioxane	7.76	88	180662	2377.28	ug/l #	85
46) Methyl methacrylate	7.79	41	496980	122.85	ug/l	96
47) n-amyl Acetate	10.90	43	985823	134.14	ug/l #	91
48) t-1,3-Dichloropropene	8.44	75	647079	144.41	ug/l	100
49) cis-1,3-Dichloropropene	9.05	75	625827	144.27	ug/l	98
50) 1,1,2-Trichloroethane	9.22	97	411201	149.02	ug/l	97
51) Ethyl methacrylate	9.19	69	649066	135.79	ug/l	96
52) 1,3-Dichloropropane	9.38	76	665482	142.98	ug/l	99
53) Dibromochloromethane	9.59	129	478126	141.84	ug/l	100
54) 1,2-Dibromoethane	9.68	107	438632	146.83	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	1519378	677.22	ug/l	99
56) Bromoform	10.86	173	408417	137.78	ug/l	100
58) 4-Methyl-2-Pentanone	8.66	43	3130163	603.06	ug/l	98
59) 2-Hexanone	9.51	43	2396388	594.97	ug/l	99
61) Tetrachloroethene	9.34	164	481391	132.33	ug/l	99
62) Toluene	8.79	91	1726660	141.75	ug/l	98
64) Chlorobenzene	10.14	112	1153805	146.35	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	447170	139.38	ug/l	100
66) Ethyl Benzene	10.26	91	1984363	144.95	ug/l	100
67) m/p-Xylenes	10.37	106	1556594	299.51	ug/l	99
68) o-Xylene	10.70	106	765427	147.05	ug/l	97
69) Styrene	10.72	104	1316428	150.65	ug/l	99
70) Isopropylbenzene	11.02	105	2120227	152.16	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	637852	146.05	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	531149m	129.12	ug/l	
73) Bromobenzene	11.26	156	587881	157.07	ug/l	93
74) n-propylbenzene	11.37	91	2438532	156.78	ug/l	98
75) 2-Chlorotoluene	11.43	91	1418206	147.84	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	1821463	153.74	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	201987	135.53	ug/l	93
78) 4-Chlorotoluene	11.51	91	1718606	157.53	ug/l	98
79) tert-butylbenzene	12.07	119	2016911	162.36	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	1842425	153.83	ug/l	99
81) sec-Butylbenzene	11.95	105	2206862	158.92	ug/l	99
82) p-Isopropyltoluene	12.07	119	2016911	162.36	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	1091273	164.55	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	1104013	167.25	ug/l	99
85) n-Butylbenzene	12.39	91	1823176	175.00	ug/l	99
86) Hexachloroethane	12.60	117	339597	137.37	ug/l	95
87) 1,2-Dichlorobenzene	12.40	146	1101548	161.26	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	152531	119.91	ug/l	94
89) 1,2,4-Trichlorobenzene	13.65	180	848095	174.82	ug/l	100
90) Hexachlorobutadiene	13.79	225	434475	168.37	ug/l	99
91) Naphthalene	13.84	128	2259779	147.63	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	839958	165.78	ug/l	99

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

