

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
 Data File : VL031212.D
 Acq On : 13 Dec 2017 22:26
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 14 03:55:57 2017

Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 03:40:57 2017

QLast Update : Thu Dec 14 03:40:57 2017

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1387553	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3271884	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3772736m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2612696	8.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.60%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.18	85	1103754	7.79	ppbv	100
3) Chlorodifluoromethane	3.11	51	1710276	9.01	ppbv	100
4) Chloromethane	3.27	50	923183	12.95	ppbv	100
5) Vinyl Chloride	3.40	62	902724	11.60	ppbv	100
6) Bromomethane	3.63	94	555914	11.80	ppbv	100
7) Chloroethane	3.71	64	352753	12.73	ppbv	100
8) Dichlorotetrafluoroethane	3.32	85	1677015	10.14	ppbv	100
9) Propene	3.13	41	845543	10.74	ppbv	100
10) Heptane	8.41	43	2405780	10.28	ppbv	99
11) Trichlorofluoromethane	4.13	101	2036506	12.26	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.68	101	1334835	13.50	ppbv	100
13) Ethanol	3.77	45	190609	12.65	ppbv	100
14) Bromoethene	3.91	108	618070	12.15	ppbv	100
15) Acetone	4.02	43	1664290	11.95	ppbv	100
16) 1,3-Butadiene	3.47	39	862651	13.14	ppbv	100
17) tert-Butyl alcohol	4.48	59	1118589	16.54	ppbv	100
18) 1,1-Dichloroethene	4.48	96	634051	13.18	ppbv	100
19) Isopropyl Alcohol	4.14	45	1240607	15.25	ppbv	100
20) Methylene Chloride	4.54	84	604559	12.48	ppbv	100
21) Allyl Chloride	4.61	41	1174508	16.91	ppbv	100
22) trans-1,2-Dichloroethene	5.10	96	772834	12.83	ppbv	100
23) Vinyl Acetate	5.30	43	2798661	11.28	ppbv	100
24) 1,1-Dichloroethane	5.23	63	2154595	10.07	ppbv	100
25) Ethyl Acetate	5.91	43	3754775	10.84	ppbv	100
26) Hexane	5.93	57	1740010	10.33	ppbv	100
27) Carbon Disulfide	4.76	76	1885166	15.94	ppbv	100
28) Methyl tert-Butyl Ether	5.25	73	2349915	12.64	ppbv	100
29) Chloroform	6.00	83	2338770	9.69	ppbv	100
30) Cyclohexane	7.41	84	1391310	10.34	ppbv	100
31) cis-1,2-Dichloroethene	5.79	61	1652813	10.25	ppbv	100
32) 1,1,1-Trichloroethane	6.78	97	2436917	12.10	ppbv	100
34) 2-Butanone	5.47	43	2551338	9.51	ppbv	100
35) Carbon Tetrachloride	7.30	117	2338546	10.17	ppbv	100
36) Benzene	7.17	78	3441676	9.19	ppbv	100
37) 1,2-Dichloroethane	6.57	62	1928421	8.77	ppbv	100
38) Trichloroethene	8.12	130	1309356	9.19	ppbv	100
39) 1,2-Dichloropropane	7.90	63	1277738	8.91	ppbv	100
40) 1,4-Dioxane	8.12	88	494906	8.69	ppbv #	100
41) Tetrahydrofuran	6.30	42	1424658	10.13	ppbv	100
42) Bromodichloromethane	8.08	83	2570850	9.81	ppbv	100
43) Methyl Methacrylate	8.30	69	1314047	10.03	ppbv	100

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QLast Update : Thu Dec 14 03:40:57 2017

Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	8.15	57	5598529	8.94	ppbv	100
45) t-1,3-Dichloropropene	9.58	75	1892518	11.66	ppbv	100
46) cis-1,3-Dichloropropene	9.00	75	2297556	10.69	ppbv	100
47) 1,1,2-Trichloroethane	9.79	97	1418456	9.33	ppbv	100
48) Dibromochloromethane	10.63	129	2280318	11.15	ppbv	100
49) Bromoform	13.38	173	1807695	11.70	ppbv	100
50) 4-Methyl-2-Pentanone	9.03	43	3142785	9.25	ppbv	100
51) 2-Hexanone	10.44	43	3054370	9.50	ppbv #	100
52) Tetrachloroethene	11.55	164	1297210	9.76	ppbv	100
53) Toluene	10.12	91	4115570	9.71	ppbv	100
54) 1,2-Dibromoethane	10.94	107	2149679	9.94	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.45	131	1556135	10.05	ppbv #	63
57) Chlorobenzene	12.48	112	3138704	8.51	ppbv	100
58) Ethyl Benzene	13.04	91	5680091	8.79	ppbv	100
59) m/p-Xylene	13.32	91	8982405m	16.48	ppbv	
60) o-Xylene	14.03	91	4505893	8.31	ppbv	100
61) Styrene	13.86	104	1391820	10.21	ppbv	100
62) Isopropylbenzene	15.00	105	5988174	9.23	ppbv	100
63) 1,1,2,2-Tetrachloroethane	14.01	83	2893392	6.85	ppbv	100
64) n-propylbenzene	15.90	120	1609839	9.07	ppbv	100
65) tert-Butylbenzene	17.08	119	4965954	8.72	ppbv	100
66) Benzyl Chloride	17.33	91	694610	14.25	ppbv	100
67) sec-Butylbenzene	17.63	105	7045090	8.17	ppbv	100
69) p-Isopropyltoluene	17.99	119	5842784	8.79	ppbv	100
70) n-Butylbenzene	18.89	91	5691372	7.77	ppbv	100
71) 2-Chlorotoluene	15.79	91	4461727	8.53	ppbv	100
72) 4-Ethyltoluene	16.17	105	5035165	9.19	ppbv	100
73) 1,3,5-Trimethylbenzene	16.33	105	4439320	8.77	ppbv	100
74) 1,2,4-Trimethylbenzene	17.10	105	4446378	7.98	ppbv	100
75) 1,3-Dichlorobenzene	17.34	146	2902719	8.23	ppbv	100
76) 1,4-Dichlorobenzene	17.48	146	2997037	8.46	ppbv	100
77) 1,2-Dichlorobenzene	18.16	146	2835725	8.15	ppbv	100
78) Hexachloro-1,3-Butadiene	23.71	225	626740	9.42	ppbv	100
79) Naphthalene	22.61	128	3814149	10.09	ppbv	100
80) Naphthalene, 2-methyl-	25.25	142	1652904	14.86	ppbv	100
81) 1,2,4-Trichlorobenzene	22.34	180	1751583	9.29	ppbv	100

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

[illegible]