

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL121317\
 Data File : VL031219.D
 Acq On : 14 Dec 2017 3:31
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121317

Manual Integrations
 APPROVED

MMDadoda
 12/15/2017 4:07:01 PM

Quant Time: Dec 14 08:42:23 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 2017
 QLast Update : Thu Dec 14 04:29:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1644952	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.46	114	4007506	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.42	117	4103317m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	3143389	10.77	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.70%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.18	85	1551067	11.16	ppbv	100
3) Chlorodifluoromethane	3.12	51	1534314	8.20	ppbv	100
4) Chloromethane	3.27	50	984458	9.74	ppbv	97
5) Vinyl Chloride	3.40	62	936142	8.96	ppbv	98
6) Bromomethane	3.63	94	583164	9.42	ppbv	99
7) Chloroethane	3.72	64	367038	9.48	ppbv	95
8) Dichlorotetrafluoroethane	3.32	85	1990719	10.32	ppbv	98
9) Propene	3.13	41	866135	9.44	ppbv	100
10) Heptane	8.41	43	2332018	8.35	ppbv	99
11) Trichlorofluoromethane	4.13	101	2095700	9.18	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.68	101	1368616	8.55	ppbv	98
13) Ethanol	3.77	45	194263	7.34	ppbv	100
14) Bromoethene	3.91	108	652259	9.48	ppbv	99
15) Acetone	4.02	43	1843498	8.49	ppbv	98
16) 1,3-Butadiene	3.47	39	849898	9.10	ppbv	97
17) tert-Butyl alcohol	4.49	59	900563	7.39	ppbv	99
18) 1,1-Dichloroethene	4.48	96	661706	9.23	ppbv	97
19) Isopropyl Alcohol	4.14	45	1186649	8.64	ppbv #	88
20) Methylene Chloride	4.54	84	606515	8.44	ppbv	97
21) Allyl Chloride	4.61	41	1126092	8.82	ppbv	98
22) trans-1,2-Dichloroethene	5.10	96	739766	8.39	ppbv	97
23) Vinyl Acetate	5.30	43	2730645	7.81	ppbv	99
24) 1,1-Dichloroethane	5.23	63	2125229	8.37	ppbv	100
25) Ethyl Acetate	5.92	43	3521546	7.94	ppbv	99
26) Hexane	5.93	57	1676150	7.97	ppbv	98
27) Carbon Disulfide	4.76	76	1807667	8.58	ppbv	99
28) Methyl tert-Butyl Ether	5.25	73	2242168	8.15	ppbv	99
29) Chloroform	6.00	83	2338590	8.23	ppbv	99
30) Cyclohexane	7.41	84	1388566	7.49	ppbv	99
31) cis-1,2-Dichloroethene	5.79	61	1539801	8.07	ppbv	99
32) 1,1,1-Trichloroethane	6.78	97	2378809	7.83	ppbv	99
34) 2-Butanone	5.47	43	2375626	8.39	ppbv	100
35) Carbon Tetrachloride	7.30	117	2304116	8.03	ppbv	97
36) Benzene	7.17	78	3428822	8.07	ppbv	99
37) 1,2-Dichloroethane	6.57	62	1913688	8.17	ppbv	100
38) Trichloroethene	8.13	130	1326277	8.01	ppbv	98
39) 1,2-Dichloropropane	7.90	63	1285439	8.56	ppbv	99
40) 1,4-Dioxane	8.12	88	499886	9.22	ppbv #	96
41) Tetrahydrofuran	6.30	42	1355502	8.52	ppbv	99
42) Bromodichloromethane	8.08	83	2531722	9.17	ppbv	99
43) Methyl Methacrylate	8.30	69	1280922	9.00	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.16	57	5612538	8.75	ppbv	100
45) t-1,3-Dichloropropene	9.58	75	1739079	8.94	ppbv	99
46) cis-1,3-Dichloropropene	9.00	75	2165796	8.85	ppbv	98
47) 1,1,2-Trichloroethane	9.79	97	1429016	9.17	ppbv	98
48) Dibromochloromethane	10.63	129	2302240	9.46	ppbv	99
49) Bromoform	13.38	173	1711246	9.53	ppbv	100
50) 4-Methyl-2-Pentanone	9.04	43	3019269	8.72	ppbv	100
51) 2-Hexanone	10.44	43	2839357	8.59	ppbv #	100
52) Tetrachloroethene	11.55	164	1261373	8.05	ppbv	97
53) Toluene	10.12	91	4189756	9.09	ppbv	100
54) 1,2-Dibromoethane	10.94	107	2150042	9.11	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.46	131	1541506	8.42	ppbv	93
57) Chlorobenzene	12.48	112	3097092	8.10	ppbv	99
58) Ethyl Benzene	13.04	91	5605398	8.27	ppbv	98
59) m/p-Xylene	13.32	91	8777448m	16.18	ppbv	
60) o-Xylene	14.03	91	4405838	8.06	ppbv	99
61) Styrene	13.86	104	1288410	8.22	ppbv	99
62) Isopropylbenzene	15.00	105	5941855	8.29	ppbv	99
63) 1,1,2,2-Tetrachloroethane	14.01	83	2863815	7.82	ppbv	100
64) n-propylbenzene	15.90	120	1594260	8.38	ppbv	100
65) tert-Butylbenzene	17.08	119	5054202	7.96	ppbv	99
66) Benzyl Chloride	17.33	91	616747	9.01	ppbv	99
67) sec-Butylbenzene	17.63	105	7194405	8.24	ppbv	99
69) p-Isopropyltoluene	17.99	119	5908909	8.11	ppbv	100
70) n-Butylbenzene	18.88	91	5841180	8.32	ppbv	100
71) 2-Chlorotoluene	15.79	91	4431196	8.33	ppbv	100
72) 4-Ethyltoluene	16.18	105	4953493	8.27	ppbv	100
73) 1,3,5-Trimethylbenzene	16.33	105	4377370	8.21	ppbv	100
74) 1,2,4-Trimethylbenzene	17.10	105	4388230	7.83	ppbv	98
75) 1,3-Dichlorobenzene	17.34	146	2862599	8.05	ppbv	100
76) 1,4-Dichlorobenzene	17.48	146	2889607	8.04	ppbv	99
77) 1,2-Dichlorobenzene	18.16	146	2872043	8.27	ppbv	99
78) Hexachloro-1,3-Butadiene	23.71	225	636922	7.98	ppbv	100
79) Naphthalene	22.62	128	3834192	8.45	ppbv	100
80) Naphthalene, 2-methyl-	25.25	142	1222873	7.24	ppbv	100
81) 1,2,4-Trichlorobenzene	22.34	180	1726671	8.17	ppbv	100

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

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