

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031969.D
 Acq On : 3 May 2018 18:34
 Operator : SY/AP
 Sample : VL0503ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0503ABS01

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:01:03 PM

Quant Time: May 04 03:48:26 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 15:52:13 2018
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1253614	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2976263	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.40	117	2758125m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.73	95	2113581	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.16	85	1390880	8.40	ppbv	100
3) Chlorodifluoromethane	3.10	51	1132619	9.60	ppbv	98
4) Chloromethane	3.26	50	584452	9.41	ppbv	99
5) Vinyl Chloride	3.38	62	621998	8.87	ppbv	99
6) Bromomethane	3.61	94	432104	9.46	ppbv	95
7) Chloroethane	3.69	64	263733	9.89	ppbv	96
8) Dichlorotetrafluoroethane	3.31	85	1526608	9.26	ppbv	99
9) Propene	3.12	41	425207	9.84	ppbv	98
10) Heptane	8.39	43	1447587	9.74	ppbv	99
11) Trichlorofluoromethane	4.11	101	1738167	8.69	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.66	101	1347828	9.57	ppbv	98
13) Ethanol	3.74	45	120573	7.47	ppbv #	100
14) Bromoethene	3.88	108	495522	9.52	ppbv	98
15) Acetone	4.00	43	1208716	6.82	ppbv	98
16) 1,3-Butadiene	3.45	39	563352	9.89	ppbv	95
17) tert-Butyl alcohol	4.46	59	585909	7.99	ppbv	98
18) 1,1-Dichloroethene	4.46	96	518640	8.40	ppbv	98
19) Isopropyl Alcohol	4.13	45	794244	8.29	ppbv	99
20) Methylene Chloride	4.52	84	510067	8.53	ppbv	97
21) Allyl Chloride	4.59	41	1013551	10.03	ppbv	99
22) trans-1,2-Dichloroethene	5.08	96	657494	9.60	ppbv	96
23) Vinyl Acetate	5.27	43	2006392	9.91	ppbv	99
24) 1,1-Dichloroethane	5.21	63	1715957	9.08	ppbv	99
25) Ethyl Acetate	5.89	43	2785998	9.16	ppbv	100
26) Hexane	5.90	57	1311800	9.17	ppbv	99
27) Carbon Disulfide	4.73	76	1706937	10.65	ppbv	99
28) Methyl tert-Butyl Ether	5.23	73	1686280	9.59	ppbv	99
29) Chloroform	5.98	83	2075116	9.17	ppbv	98
30) Cyclohexane	7.39	84	1047360	10.99	ppbv	100
31) cis-1,2-Dichloroethene	5.77	61	1242135	9.49	ppbv	99
32) 1,1,1-Trichloroethane	6.76	97	2202283	10.56	ppbv	98
34) 2-Butanone	5.45	43	1767834	7.20	ppbv	99
35) Carbon Tetrachloride	7.27	117	2360425	10.01	ppbv	100
36) Benzene	7.14	78	2789768	9.95	ppbv	98
37) 1,2-Dichloroethane	6.55	62	1788120	8.87	ppbv	99
38) Trichloroethene	8.10	130	886911	8.33	ppbv	97
39) 1,2-Dichloropropane	7.88	63	810533	8.30	ppbv	98
40) 1,4-Dioxane	8.10	88	324259	7.37	ppbv	78
41) Tetrahydrofuran	6.27	42	949444	8.88	ppbv	99
42) Bromodichloromethane	8.06	83	1878090	8.36	ppbv	99
43) Methyl Methacrylate	8.28	69	823111	8.71	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	3700432	8.18	ppbv	100
45) t-1,3-Dichloropropene	9.56	75	1178378	9.41	ppbv	99
46) cis-1,3-Dichloropropene	8.98	75	1457874	9.43	ppbv	99
47) 1,1,2-Trichloroethane	9.76	97	927082	8.03	ppbv	98
48) Dibromochloromethane	10.60	129	1604891	8.67	ppbv	99
49) Bromoform	13.36	173	1257519	8.75	ppbv	100
50) 4-Methyl-2-Pentanone	9.01	43	1975224	8.51	ppbv	99
51) 2-Hexanone	10.42	43	1915461	9.07	ppbv #	99
52) Tetrachloroethene	11.53	164	857797	8.26	ppbv	98
53) Toluene	10.10	91	2676107	8.86	ppbv	99
54) 1,2-Dibromoethane	10.91	107	1463785	8.51	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.43	131	1096901	8.73	ppbv #	59
57) Chlorobenzene	12.46	112	2082647	8.76	ppbv	98
58) Ethyl Benzene	13.02	91	3714386	9.40	ppbv	97
59) m/p-Xylene	13.30	91	6180673m	18.45	ppbv	
60) o-Xylene	14.00	91	3109387	9.25	ppbv	100
61) Styrene	13.84	104	738269	10.83	ppbv	100
62) Isopropylbenzene	14.98	105	3911106	9.10	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.99	83	2017999	8.45	ppbv	98
64) n-propylbenzene	15.87	120	996791	9.25	ppbv	97
65) tert-Butylbenzene	17.06	119	3336009	8.70	ppbv	100
66) Benzyl Chloride	17.31	91	329269	9.45	ppbv	99
67) sec-Butylbenzene	17.61	105	4714286	8.86	ppbv	100
69) p-Isopropyltoluene	17.96	119	3916150	9.15	ppbv	99
70) n-Butylbenzene	18.86	91	4114305	9.30	ppbv	99
71) 2-Chlorotoluene	15.77	91	2953594	9.39	ppbv	99
72) 4-Ethyltoluene	16.15	105	3269253	9.58	ppbv	99
73) 1,3,5-Trimethylbenzene	16.31	105	2950025	9.35	ppbv	95
74) 1,2,4-Trimethylbenzene	17.08	105	3080126	8.82	ppbv	96
75) 1,3-Dichlorobenzene	17.32	146	1930296	8.96	ppbv	100
76) 1,4-Dichlorobenzene	17.46	146	1952575	9.16	ppbv	100
77) 1,2-Dichlorobenzene	18.14	146	1926510	8.88	ppbv	99
78) Hexachloro-1,3-Butadiene	23.68	225	883197	8.96	ppbv	100
79) Naphthalene	22.59	128	3479906	14.31	ppbv	99
80) Naphthalene, 2-methyl-	25.23	142	1532356	26.43	ppbv	98
81) 1,2,4-Trichlorobenzene	22.32	180	1695902	12.58	ppbv	100

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

