

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091819\
 Data File : VL034186.D
 Acq On : 18 Sep 2019 17:07
 Operator : SY/AP
 Sample : VL0918ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0918ABS01

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:37:15 AM

Quant Time: Sep 19 06:58:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 19
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1180226	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	2028421	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	2162140m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.50	95	1842353	9.81	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1365382	7.832	ppbv	99
3) Chlorodifluoromethane	2.97	51	1274435	9.210	ppbv	100
4) Chloromethane	3.13	50	767365	9.436	ppbv	98
5) Vinyl Chloride	3.25	62	676017	9.096	ppbv	98
6) Bromomethane	3.47	94	329743	9.510	ppbv	96
7) Chloroethane	3.55	64	244788	9.424	ppbv	95
8) Dichlorotetrafluoroethane	3.18	85	1401324	9.108	ppbv	98
9) Propene	2.99	41	625503	9.162	ppbv	99
10) Heptane	8.18	43	1663525	9.349	ppbv	100
11) Trichlorofluoromethane	3.95	101	1484340	9.354	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.50	101	978084	9.418	ppbv	99
13) Ethanol	3.60	45	135255	8.181	ppbv	95
14) Bromoethene	3.74	108	420196	9.896	ppbv	99
15) Acetone	3.85	43	1269623	8.026	ppbv	100
16) 1,3-Butadiene	3.32	39	677327	9.812	ppbv	97
17) tert-Butyl alcohol	4.30	59	1109222	11.067	ppbv	100
18) 1,1-Dichloroethene	4.29	96	448281	9.897	ppbv	95
19) Isopropyl Alcohol	3.97	45	1013067	10.415	ppbv	100
20) Methylene Chloride	4.35	84	406826	8.920	ppbv	96
21) Allyl Chloride	4.42	41	892901	9.994	ppbv	99
22) trans-1,2-Dichloroethene	4.90	96	444965	9.818	ppbv	99
23) Vinyl Acetate	5.10	43	2225364	9.547	ppbv	99
24) 1,1-Dichloroethane	5.03	63	1437011	9.156	ppbv	99
25) Ethyl Acetate	5.70	43	2678448	8.954	ppbv	99
26) Hexane	5.72	57	1126080	9.050	ppbv	99
27) Carbon Disulfide	4.56	76	1204066	10.492	ppbv	100
28) Methyl tert-Butyl Ether	5.05	73	1750014	9.470	ppbv	100
29) Chloroform	5.79	83	1670045	9.392	ppbv	100
30) Cyclohexane	7.18	84	851739	9.481	ppbv	100
31) cis-1,2-Dichloroethene	5.58	61	1210236	9.541	ppbv	98
32) 1,1,1-Trichloroethane	6.55	97	1585124	9.244	ppbv	99
34) 2-Butanone	5.27	43	1860578	8.983	ppbv	99
35) Carbon Tetrachloride	7.07	117	1581840	9.387	ppbv	99
36) Benzene	6.94	78	2073555	9.256	ppbv	99
37) 1,2-Dichloroethane	6.35	62	1503983	9.439	ppbv	100
38) Trichloroethene	7.89	130	684281	8.549	ppbv	98
39) 1,2-Dichloropropane	7.67	63	910334	9.044	ppbv	97
40) 1,4-Dioxane	7.88	88	297125	9.122	ppbv #	94
41) Tetrahydrofuran	6.08	42	1114627	9.555	ppbv	99
42) Bromodichloromethane	7.85	83	1836283	9.602	ppbv #	99
43) Methyl Methacrylate	8.07	69	908132	9.813	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3838450	8.900	ppbv	100
45) t-1,3-Dichloropropene	9.34	75	1171484	10.706	ppbv	99
46) cis-1,3-Dichloropropene	8.76	75	1327915	10.088	ppbv	97
47) 1,1,2-Trichloroethane	9.54	97	822005	9.094	ppbv	96
48) Dibromochloromethane	10.38	129	1365918	9.535	ppbv	100
49) Bromoform	13.12	173	1129401	9.742	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	2742158	9.097	ppbv	99
51) 2-Hexanone	10.19	43	2328871	9.206	ppbv	99
52) Tetrachloroethene	11.29	164	624930	8.443	ppbv	96
53) Toluene	9.87	91	2259979	9.230	ppbv	100
54) 1,2-Dibromoethane	10.68	107	1227881	9.135	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.20	131	881634	9.143	ppbv	98
57) Chlorobenzene	12.22	112	1590010	8.446	ppbv	97
58) Ethyl Benzene	12.79	91	3082557	8.836	ppbv	98
59) m/p-Xylene	13.07	91	5001996m	17.310	ppbv	
60) o-Xylene	13.77	91	2495543	8.637	ppbv	100
61) Styrene	13.61	104	1866223	9.017	ppbv	100
62) Isopropylbenzene	14.75	105	3243523	8.672	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.76	83	1817607	7.672	ppbv	100
64) n-propylbenzene	15.64	120	832467	8.797	ppbv	92
65) tert-Butylbenzene	16.83	119	2731190	8.357	ppbv	99
66) Benzyl Chloride	17.08	91	1241687	10.739	ppbv	99
67) sec-Butylbenzene	17.38	105	3983520	8.524	ppbv	99
69) p-Isopropyltoluene	17.74	119	3195763	8.445	ppbv	100
70) n-Butylbenzene	18.64	91	3660294	8.307	ppbv	99
71) 2-Chlorotoluene	15.54	91	2630755	8.608	ppbv	100
72) 4-Ethyltoluene	15.92	105	2851644	8.735	ppbv	100
73) 1,3,5-Trimethylbenzene	16.08	105	2753081	8.730	ppbv	100
74) 1,2,4-Trimethylbenzene	16.85	105	2749270	8.210	ppbv	97
75) 1,3-Dichlorobenzene	17.09	146	1458700	8.119	ppbv	100
76) 1,4-Dichlorobenzene	17.23	146	1512792	8.222	ppbv	99
77) 1,2-Dichlorobenzene	17.91	146	1493847	8.215	ppbv	99
78) Hexachloro-1,3-Butadiene	23.47	225	971634	8.067	ppbv	98
79) Naphthalene	22.31	128	2490841	8.449	ppbv	96
80) Naphthalene, 2-methyl-	25.05	142	563717	4.112	ppbv	96
81) 1,2,4-Trichlorobenzene	22.04	180	1342689	8.222	ppbv	100

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

