

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071119\
 Data File : VL034032.D
 Acq On : 12 Jul 2019 8:51
 Operator : SY/AP
 Sample : VL0711ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

Manual Integrations
 APPROVED

MMDadoda
 7/15/2019 2:54:18 PM

Quant Time: Jul 12 15:48:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1079031	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.25	114	2808681	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.20	117	2911912m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2190191	8.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	88.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	1716189	7.707	ppbv	99
3) Chlorodifluoromethane	2.99	51	1279404	9.602	ppbv	95
4) Chloromethane	3.15	50	686383	8.959	ppbv	96
5) Vinyl Chloride	3.27	62	743558	8.631	ppbv	99
6) Bromomethane	3.49	94	486151	9.569	ppbv	97
7) Chloroethane	3.58	64	288864	9.381	ppbv	98
8) Dichlorotetrafluoroethane	3.20	85	1834474	8.450	ppbv	99
9) Propene	3.02	41	517781	10.563	ppbv	96
10) Heptane	8.21	43	1467019	11.953	ppbv	99
11) Trichlorofluoromethane	3.98	101	1941669	7.755	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.52	101	1559351	8.798	ppbv	100
13) Ethanol	3.63	45	181895	11.945	ppbv	93
14) Bromoethene	3.76	108	611157	9.234	ppbv	98
15) Acetone	3.88	43	1439875	7.937	ppbv	97
16) 1,3-Butadiene	3.34	39	639076	9.976	ppbv	98
17) tert-Butyl alcohol	4.33	59	1622969	11.221	ppbv	100
18) 1,1-Dichloroethene	4.32	96	732575	9.281	ppbv	99
19) Isopropyl Alcohol	4.00	45	1171537	9.620	ppbv	# 99
20) Methylene Chloride	4.38	84	625915	7.911	ppbv	95
21) Allyl Chloride	4.45	41	1106668	9.783	ppbv	97
22) trans-1,2-Dichloroethene	4.93	96	665206	8.844	ppbv	92
23) Vinyl Acetate	5.12	43	1984907	10.962	ppbv	99
24) 1,1-Dichloroethane	5.06	63	1568799	9.776	ppbv	98
25) Ethyl Acetate	5.73	43	2659943	10.720	ppbv	100
26) Hexane	5.74	57	1264369	11.135	ppbv	95
27) Carbon Disulfide	4.59	76	1831259	9.487	ppbv	99
28) Methyl tert-Butyl Ether	5.08	73	2127048	11.061	ppbv	98
29) Chloroform	5.81	83	1994176	9.345	ppbv	96
30) Cyclohexane	7.21	84	1054565	12.026	ppbv	98
31) cis-1,2-Dichloroethene	5.61	61	1257719	11.465	ppbv	98
32) 1,1,1-Trichloroethane	6.58	97	2029011	9.381	ppbv	99
34) 2-Butanone	5.29	43	1623949	10.925	ppbv	100
35) Carbon Tetrachloride	7.09	117	2085841	9.381	ppbv	99
36) Benzene	6.97	78	2540652	11.560	ppbv	98
37) 1,2-Dichloroethane	6.38	62	1523389	9.409	ppbv	98
38) Trichloroethene	7.92	130	1052564	10.764	ppbv	99
39) 1,2-Dichloropropane	7.70	63	948271	11.604	ppbv	99
40) 1,4-Dioxane	7.91	88	381818	10.120	ppbv	# 92
41) Tetrahydrofuran	6.11	42	910545	12.490	ppbv	98
42) Bromodichloromethane	7.88	83	2272528	10.461	ppbv	99
43) Methyl Methacrylate	8.10	69	1034254	12.403	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.95	57	4343308	11.449	ppbv	99
45) t-1,3-Dichloropropene	9.37	75	1257315	11.531	ppbv	99
46) cis-1,3-Dichloropropene	8.80	75	1487167	11.777	ppbv	98
47) 1,1,2-Trichloroethane	9.57	97	1079096	10.502	ppbv	98
48) Dibromochloromethane	10.41	129	1942569	9.908	ppbv	99
49) Bromoform	13.16	173	1708390	10.200	ppbv	99
50) 4-Methyl-2-Pentanone	8.83	43	2534473	11.490	ppbv	99
51) 2-Hexanone	10.23	43	2055278	11.554	ppbv #	99
52) Tetrachloroethene	11.33	164	990263	10.469	ppbv	96
53) Toluene	9.90	91	3066483	12.189	ppbv	99
54) 1,2-Dibromoethane	10.71	107	1670372	11.016	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.24	131	1315228	10.106	ppbv	99
57) Chlorobenzene	12.26	112	2291148	9.883	ppbv	99
58) Ethyl Benzene	12.82	91	4067019	11.614	ppbv	99
59) m/p-Xylene	13.11	91	6721102m	21.198	ppbv	
60) o-Xylene	13.80	91	3334643	10.513	ppbv	99
61) Styrene	13.64	104	2407889	11.471	ppbv	99
62) Isopropylbenzene	14.79	105	4565913	9.364	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.79	83	2339609	9.529	ppbv	99
64) n-propylbenzene	15.68	120	1162728	9.196	ppbv	98
65) tert-Butylbenzene	16.87	119	4096821	9.880	ppbv	99
66) Benzyl Chloride	17.11	91	1682957	7.933	ppbv	99
67) sec-Butylbenzene	17.42	105	5808261	9.980	ppbv	99
69) p-Isopropyltoluene	17.77	119	4773703	9.948	ppbv	100
70) n-Butylbenzene	18.67	91	4991769	9.902	ppbv	99
71) 2-Chlorotoluene	15.57	91	3464116	9.708	ppbv	100
72) 4-Ethyltoluene	15.96	105	3900338	9.575	ppbv	98
73) 1,3,5-Trimethylbenzene	16.12	105	3750714	9.896	ppbv	99
74) 1,2,4-Trimethylbenzene	16.88	105	3877749	9.238	ppbv	98
75) 1,3-Dichlorobenzene	17.12	146	2236137	8.386	ppbv	100
76) 1,4-Dichlorobenzene	17.26	146	2192646	8.731	ppbv	99
77) 1,2-Dichlorobenzene	17.94	146	2198136	8.902	ppbv	99
78) Hexachloro-1,3-Butadiene	23.50	225	1521299	7.241	ppbv	99
79) Naphthalene	22.36	128	3173426	8.992	ppbv	98
80) Naphthalene, 2-methyl-	25.08	142	593456	4.621	ppbv	97
81) 1,2,4-Trichlorobenzene	22.08	180	1859316	8.203	ppbv	100

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

