

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034136.D
 Acq On : 5 Sep 2019 15:04
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:15:20 AM

Quant Time: Sep 06 05:11:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 06 05:11:15 2019
 QLast Update : Thu Sep 05 10:21:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	905828	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	1758969	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	1949219m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.51	95	1480844	9.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1140889	7.636	ppbv	98
3) Chlorodifluoromethane	2.98	51	1016437m	10.066	ppbv	
4) Chloromethane	3.13	50	562648	8.913	ppbv	100
5) Vinyl Chloride	3.25	62	515400	8.963	ppbv	97
6) Bromomethane	3.47	94	276390	9.739	ppbv	94
7) Chloroethane	3.55	64	189052	9.650	ppbv	94
8) Dichlorotetrafluoroethane	3.18	85	1111045	9.239	ppbv	98
9) Propene	3.00	41	522566	9.250	ppbv	98
10) Heptane	8.18	43	1392009	9.494	ppbv	100
11) Trichlorofluoromethane	3.96	101	1132356	9.293	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.50	101	765022	9.385	ppbv	96
13) Ethanol	3.61	45	132484m	11.971	ppbv	
14) Bromoethene	3.74	108	343460	9.732	ppbv	98
15) Acetone	3.85	43	979087	8.968	ppbv	100
16) 1,3-Butadiene	3.32	39	525399	9.503	ppbv	96
17) tert-Butyl alcohol	4.31	59	889948	11.229	ppbv	99
18) 1,1-Dichloroethene	4.30	96	361542	9.707	ppbv	96
19) Isopropyl Alcohol	3.98	45	834299	11.322	ppbv	100
20) Methylene Chloride	4.35	84	313983	8.699	ppbv	98
21) Allyl Chloride	4.43	41	689389	9.579	ppbv	98
22) trans-1,2-Dichloroethene	4.91	96	354663	9.514	ppbv	99
23) Vinyl Acetate	5.10	43	1768787	9.550	ppbv	99
24) 1,1-Dichloroethane	5.04	63	1128571	9.181	ppbv	100
25) Ethyl Acetate	5.71	43	2104533	8.782	ppbv	99
26) Hexane	5.72	57	925356	8.685	ppbv	97
27) Carbon Disulfide	4.57	76	924074	9.610	ppbv	99
28) Methyl tert-Butyl Ether	5.06	73	1448205	9.277	ppbv	99
29) Chloroform	5.80	83	1335563	9.294	ppbv	98
30) Cyclohexane	7.18	84	749643	9.732	ppbv	99
31) cis-1,2-Dichloroethene	5.58	61	958210	9.391	ppbv	97
32) 1,1,1-Trichloroethane	6.56	97	1241846	9.147	ppbv	99
34) 2-Butanone	5.27	43	1499909	8.870	ppbv	100
35) Carbon Tetrachloride	7.07	117	1185875	8.647	ppbv	98
36) Benzene	6.94	78	1811575	9.010	ppbv	97
37) 1,2-Dichloroethane	6.35	62	1084971	8.797	ppbv	100
38) Trichloroethene	7.90	130	583027	7.771	ppbv	95
39) 1,2-Dichloropropane	7.67	63	769992	8.949	ppbv	95
40) 1,4-Dioxane	7.89	88	283378	8.962	ppbv	# 88
41) Tetrahydrofuran	6.09	42	927614	9.150	ppbv	100
42) Bromodichloromethane	7.85	83	1464189	9.108	ppbv	100
43) Methyl Methacrylate	8.07	69	790529	9.544	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	3200764	8.635	ppbv	99
45) t-1,3-Dichloropropene	9.35	75	908272	9.330	ppbv	98
46) cis-1,3-Dichloropropene	8.77	75	1086719	9.176	ppbv	98
47) 1,1,2-Trichloroethane	9.55	97	710705	9.066	ppbv	98
48) Dibromochloromethane	10.38	129	1117013	9.550	ppbv	98
49) Bromoform	13.13	173	964396	9.404	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	2249920	8.719	ppbv	98
51) 2-Hexanone	10.20	43	1928168	8.650	ppbv	99
52) Tetrachloroethene	11.31	164	576648	8.134	ppbv	98
53) Toluene	9.88	91	2037489	9.163	ppbv	98
54) 1,2-Dibromoethane	10.69	107	1075827	9.212	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.21	131	734758	8.789	ppbv	99
57) Chlorobenzene	12.23	112	1395333	8.322	ppbv	98
58) Ethyl Benzene	12.80	91	2751387	8.608	ppbv	98
59) m/p-Xylene	13.08	91	4410499m	16.916	ppbv	
60) o-Xylene	13.78	91	2170231	8.357	ppbv	99
61) Styrene	13.61	104	1628553	8.384	ppbv	100
62) Isopropylbenzene	14.76	105	2902695	8.590	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.77	83	1594056	7.532	ppbv	100
64) n-propylbenzene	15.66	120	755106	8.921	ppbv	94
65) tert-Butylbenzene	16.84	119	2454823	8.418	ppbv	100
66) Benzyl Chloride	17.09	91	946689	8.805	ppbv	100
67) sec-Butylbenzene	17.39	105	3566398	8.505	ppbv	99
69) p-Isopropyltoluene	17.75	119	2910129	8.673	ppbv	99
70) n-Butylbenzene	18.64	91	3298829	8.641	ppbv	99
71) 2-Chlorotoluene	15.55	91	2401096	8.699	ppbv	99
72) 4-Ethyltoluene	15.93	105	2508095	8.560	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	2428891	8.529	ppbv	96
74) 1,2,4-Trimethylbenzene	16.86	105	2421760	8.259	ppbv	97
75) 1,3-Dichlorobenzene	17.10	146	1305386	8.402	ppbv	100
76) 1,4-Dichlorobenzene	17.24	146	1349495	8.287	ppbv	99
77) 1,2-Dichlorobenzene	17.92	146	1348200	8.476	ppbv	99
78) Hexachloro-1,3-Butadiene	23.48	225	1045038	9.630	ppbv	98
79) Naphthalene	22.33	128	2353980	8.880	ppbv	99
80) Naphthalene, 2-methyl-	25.05	142	892420	9.698	ppbv	99
81) 1,2,4-Trichlorobenzene	22.05	180	1193823	8.276	ppbv	99

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

