

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091019\
 Data File : VL034140.D
 Acq On : 10 Sep 2019 12:10
 Operator : SY/AP
 Sample : VL0910ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0910ABS01

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:16:45 AM

Quant Time: Sep 11 02:04:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 0
 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	5.70	49	1011219	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	1849324	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2089811m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.51	95	1567752	9.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	1554664	9.321	ppbv 98
3) Chlorodifluoromethane	2.98	51	1127037	9.999	ppbv 100
4) Chloromethane	3.13	50	622403	8.832	ppbv 99
5) Vinyl Chloride	3.25	62	560009	8.724	ppbv 96
6) Bromomethane	3.47	94	289448	9.137	ppbv 99
7) Chloroethane	3.56	64	204644	9.357	ppbv 99
8) Dichlorotetrafluoroethane	3.18	85	1189228	8.858	ppbv 98
9) Propene	3.00	41	553752	8.780	ppbv 98
10) Heptane	8.18	43	1471176	8.989	ppbv 100
11) Trichlorofluoromethane	3.96	101	1225151	9.007	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.50	101	815573	8.962	ppbv 99
13) Ethanol	3.61	45	108154	8.754	ppbv 98
14) Bromoethene	3.74	108	347446	8.819	ppbv 99
15) Acetone	3.85	43	1039321	8.528	ppbv 100
16) 1,3-Butadiene	3.32	39	560391	9.080	ppbv 100
17) tert-Butyl alcohol	4.31	59	758883	8.578	ppbv 99
18) 1,1-Dichloroethene	4.30	96	373117	8.974	ppbv 93
19) Isopropyl Alcohol	3.98	45	671269	8.160	ppbv 100
20) Methylene Chloride	4.36	84	332783	8.259	ppbv 97
21) Allyl Chloride	4.43	41	733202	9.126	ppbv 99
22) trans-1,2-Dichloroethene	4.91	96	368886	8.864	ppbv 99
23) Vinyl Acetate	5.10	43	1895729	9.168	ppbv 98
24) 1,1-Dichloroethane	5.04	63	1234279	8.994	ppbv 99
25) Ethyl Acetate	5.71	43	2211378	8.266	ppbv 99
26) Hexane	5.72	57	971687	8.170	ppbv 97
27) Carbon Disulfide	4.56	76	1010291	9.412	ppbv 98
28) Methyl tert-Butyl Ether	5.06	73	1552759	8.910	ppbv 99
29) Chloroform	5.79	83	1424257	8.878	ppbv 98
30) Cyclohexane	7.19	84	763887	8.884	ppbv 96
31) cis-1,2-Dichloroethene	5.58	61	1042334	9.151	ppbv 96
32) 1,1,1-Trichloroethane	6.56	97	1351863	8.919	ppbv 98
34) 2-Butanone	5.28	43	1617915	9.100	ppbv 99
35) Carbon Tetrachloride	7.07	117	1291036	8.954	ppbv 99
36) Benzene	6.94	78	1866878	8.832	ppbv 96
37) 1,2-Dichloroethane	6.35	62	1212348	9.349	ppbv 98
38) Trichloroethene	7.89	130	598931	7.593	ppbv 94
39) 1,2-Dichloropropane	7.67	63	820918	9.075	ppbv 92
40) 1,4-Dioxane	7.89	88	249643	7.509	ppbv # 99
41) Tetrahydrofuran	6.09	42	987292	9.263	ppbv 98
42) Bromodichloromethane	7.85	83	1557682	9.217	ppbv 98
43) Methyl Methacrylate	8.07	69	807053	9.268	ppbv 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	3378973	8.670	ppbv	100
45) t-1,3-Dichloropropene	9.35	75	984545	9.619	ppbv	99
46) cis-1,3-Dichloropropene	8.77	75	1149394	9.231	ppbv	96
47) 1,1,2-Trichloroethane	9.55	97	743739	9.024	ppbv	97
48) Dibromochloromethane	10.38	129	1181309	9.606	ppbv	99
49) Bromoform	13.13	173	998729	9.263	ppbv	98
50) 4-Methyl-2-Pentanone	8.80	43	2403362	8.859	ppbv	98
51) 2-Hexanone	10.20	43	2054424	8.766	ppbv #	99
52) Tetrachloroethene	11.30	164	591987	7.942	ppbv	98
53) Toluene	9.88	91	2094574	8.959	ppbv	99
54) 1,2-Dibromoethane	10.69	107	1132871	9.227	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.21	131	773244	8.627	ppbv #	60
57) Chlorobenzene	12.23	112	1445345	8.040	ppbv	99
58) Ethyl Benzene	12.80	91	2832130	8.264	ppbv	98
59) m/p-Xylene	13.08	91	4516391m	16.156	ppbv	
60) o-Xylene	13.78	91	2258194	8.111	ppbv	98
61) Styrene	13.62	104	1686246	8.097	ppbv	99
62) Isopropylbenzene	14.75	105	2994152	8.265	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.76	83	1644157	7.246	ppbv	99
64) n-propylbenzene	15.65	120	779767	8.592	ppbv	97
65) tert-Butylbenzene	16.84	119	2497845	7.989	ppbv	99
66) Benzyl Chloride	17.09	91	1032251	8.955	ppbv	97
67) sec-Butylbenzene	17.39	105	3675234	8.175	ppbv	99
69) p-Isopropyltoluene	17.74	119	2958273	8.224	ppbv	100
70) n-Butylbenzene	18.64	91	3389718	8.282	ppbv	99
71) 2-Chlorotoluene	15.55	91	2472047	8.353	ppbv	100
72) 4-Ethyltoluene	15.93	105	2606039	8.296	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	2500813	8.191	ppbv	98
74) 1,2,4-Trimethylbenzene	16.86	105	2463297	7.835	ppbv	96
75) 1,3-Dichlorobenzene	17.09	146	1314090	7.889	ppbv	99
76) 1,4-Dichlorobenzene	17.24	146	1356681	7.771	ppbv	99
77) 1,2-Dichlorobenzene	17.92	146	1362285	7.988	ppbv	100
78) Hexachloro-1,3-Butadiene	23.47	225	1065101	9.154	ppbv	100
79) Naphthalene	22.32	128	2404944	8.461	ppbv	98
80) Naphthalene, 2-methyl-	25.06	142	883594	8.956	ppbv	99
81) 1,2,4-Trichlorobenzene	22.05	180	1211209	7.832	ppbv	99

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

