

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091019\
 Data File : VL034138.D
 Acq On : 10 Sep 2019 9:58
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

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

Quant Time: Sep 11 01:58:32 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	992665	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	1890507	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2061701m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1629176	9.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1567471	9.573	ppbv 98
3) Chlorodifluoromethane	2.97	51	1067882	9.651	ppbv 99
4) Chloromethane	3.13	50	665270	9.617	ppbv 94
5) Vinyl Chloride	3.25	62	586583	9.309	ppbv 97
6) Bromomethane	3.47	94	290814	9.351	ppbv 100
7) Chloroethane	3.56	64	212008	9.875	ppbv 95
8) Dichlorotetrafluoroethane	3.18	85	1212019	9.197	ppbv 100
9) Propene	3.00	41	585190	9.452	ppbv 99
10) Heptane	8.18	43	1513641	9.421	ppbv 100
11) Trichlorofluoromethane	3.95	101	1251800	9.375	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.50	101	831297	9.306	ppbv 98
13) Ethanol	3.60	45	86040	7.094	ppbv 98
14) Bromoethene	3.74	108	375345	9.705	ppbv 99
15) Acetone	3.85	43	1102780	9.218	ppbv 99
16) 1,3-Butadiene	3.32	39	581557	9.599	ppbv 99
17) tert-Butyl alcohol	4.30	59	744050	8.567	ppbv 100
18) 1,1-Dichloroethene	4.30	96	397942	9.750	ppbv 97
19) Isopropyl Alcohol	3.98	45	609914	7.553	ppbv 100
20) Methylene Chloride	4.36	84	350628	8.864	ppbv 94
21) Allyl Chloride	4.43	41	784620	9.948	ppbv 97
22) trans-1,2-Dichloroethene	4.91	96	394539	9.658	ppbv 98
23) Vinyl Acetate	5.10	43	1979678	9.753	ppbv 99
24) 1,1-Dichloroethane	5.03	63	1260104	9.354	ppbv 100
25) Ethyl Acetate	5.71	43	2364914	9.005	ppbv 99
26) Hexane	5.72	57	1022573	8.758	ppbv 98
27) Carbon Disulfide	4.56	76	1058448	10.045	ppbv 98
28) Methyl tert-Butyl Ether	5.06	73	1617986	9.458	ppbv 99
29) Chloroform	5.79	83	1452616	9.224	ppbv 98
30) Cyclohexane	7.18	84	803444	9.518	ppbv 97
31) cis-1,2-Dichloroethene	5.58	61	1085465	9.708	ppbv 98
32) 1,1,1-Trichloroethane	6.56	97	1375560	9.245	ppbv 98
34) 2-Butanone	5.27	43	1680689	9.247	ppbv 99
35) Carbon Tetrachloride	7.07	117	1342308	9.107	ppbv 98
36) Benzene	6.94	78	1984123	9.182	ppbv 99
37) 1,2-Dichloroethane	6.35	62	1237950	9.339	ppbv 99
38) Trichloroethene	7.90	130	640051	7.938	ppbv 94
39) 1,2-Dichloropropane	7.67	63	852207	9.215	ppbv 99
40) 1,4-Dioxane	7.88	88	239598	7.050	ppbv # 96
41) Tetrahydrofuran	6.09	42	1030429	9.457	ppbv 100
42) Bromodichloromethane	7.85	83	1623867	9.399	ppbv 98
43) Methyl Methacrylate	8.08	69	853455	9.587	ppbv 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.93	57	3477475	8.729	ppbv	99
45) t-1,3-Dichloropropene	9.35	75	1126371	10.765	ppbv	100
46) cis-1,3-Dichloropropene	8.77	75	1275810	10.023	ppbv	99
47) 1,1,2-Trichloroethane	9.55	97	776241	9.213	ppbv	97
48) Dibromochloromethane	10.38	129	1245790	9.910	ppbv	98
49) Bromoform	13.13	173	1072315	9.729	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	2479773	8.941	ppbv	98
51) 2-Hexanone	10.20	43	2153950	8.990	ppbv #	99
52) Tetrachloroethene	11.30	164	618290	8.114	ppbv	98
53) Toluene	9.88	91	2198903	9.201	ppbv	99
54) 1,2-Dibromoethane	10.69	107	1161605	9.255	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.21	131	796981	9.013	ppbv #	58
57) Chlorobenzene	12.23	112	1521723	8.580	ppbv	96
58) Ethyl Benzene	12.79	91	2963817	8.767	ppbv	98
59) m/p-Xylene	13.08	91	4725089m	17.133	ppbv	
60) o-Xylene	13.78	91	2319149	8.443	ppbv	99
61) Styrene	13.61	104	1842417	8.967	ppbv	100
62) Isopropylbenzene	14.75	105	3036621	8.496	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.76	83	1695235	7.573	ppbv	98
64) n-propylbenzene	15.65	120	788330	8.805	ppbv	94
65) tert-Butylbenzene	16.84	119	2523929	8.183	ppbv	99
66) Benzyl Chloride	17.08	91	1293205	11.372	ppbv	98
67) sec-Butylbenzene	17.39	105	3669961	8.274	ppbv	99
69) p-Isopropyltoluene	17.74	119	2977846	8.391	ppbv	99
70) n-Butylbenzene	18.64	91	3358405	8.317	ppbv	98
71) 2-Chlorotoluene	15.54	91	2506527	8.585	ppbv	100
72) 4-Ethyltoluene	15.93	105	2711654	8.750	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	2565392	8.517	ppbv	99
74) 1,2,4-Trimethylbenzene	16.86	105	2524322	8.139	ppbv	99
75) 1,3-Dichlorobenzene	17.09	146	1337356	8.138	ppbv	99
76) 1,4-Dichlorobenzene	17.23	146	1448246	8.408	ppbv	99
77) 1,2-Dichlorobenzene	17.91	146	1394571	8.289	ppbv	99
78) Hexachloro-1,3-Butadiene	23.48	225	1105380m	9.630	ppbv	
79) Naphthalene	22.32	128	2457280	8.764	ppbv	99
80) Naphthalene, 2-methyl-	25.05	142	1483548	15.242	ppbv	99
81) 1,2,4-Trichlorobenzene	22.05	180	1286214m	8.430	ppbv	

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

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