

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091219\
 Data File : VL034160.D
 Acq On : 12 Sep 2019 15:49
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 9/14/2019 12:09:45 AM

Quant Time: Sep 13 01:53:49 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	1293685	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2365406	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2641332m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.51	95	2071269	9.59	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	2030314	9.515	ppbv 98
3) Chlorodifluoromethane	2.98	51	1386772	9.617	ppbv 100
4) Chloromethane	3.13	50	864735	9.592	ppbv 96
5) Vinyl Chloride	3.25	62	770475	9.382	ppbv 96
6) Bromomethane	3.47	94	389605	9.613	ppbv 99
7) Chloroethane	3.56	64	284479	10.168	ppbv 94
8) Dichlorotetrafluoroethane	3.18	85	1545372	8.998	ppbv 99
9) Propene	3.00	41	736287	9.126	ppbv 99
10) Heptane	8.18	43	1922198	9.180	ppbv 100
11) Trichlorofluoromethane	3.96	101	1623519	9.330	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1092237	9.382	ppbv 99
13) Ethanol	3.60	45	107920	6.828	ppbv 96
14) Bromoethene	3.74	108	479767	9.518	ppbv 98
15) Acetone	3.85	43	1411512	9.053	ppbv 100
16) 1,3-Butadiene	3.32	39	750211	9.501	ppbv 100
17) tert-Butyl alcohol	4.30	59	881485	7.788	ppbv 100
18) 1,1-Dichloroethene	4.30	96	510510	9.598	ppbv 96
19) Isopropyl Alcohol	3.98	45	805461	7.654	ppbv 100
20) Methylene Chloride	4.36	84	459844	8.920	ppbv 98
21) Allyl Chloride	4.43	41	993007	9.661	ppbv 99
22) trans-1,2-Dichloroethene	4.91	96	506954	9.522	ppbv 100
23) Vinyl Acetate	5.10	43	2475659	9.359	ppbv 99
24) 1,1-Dichloroethane	5.04	63	1622651	9.242	ppbv 99
25) Ethyl Acetate	5.71	43	2973179	8.687	ppbv 100
26) Hexane	5.72	57	1285555	8.449	ppbv 98
27) Carbon Disulfide	4.57	76	1374092	10.006	ppbv 100
28) Methyl tert-Butyl Ether	5.06	73	2056604	9.225	ppbv 100
29) Chloroform	5.79	83	1879187	9.156	ppbv 96
30) Cyclohexane	7.19	84	1026806	9.334	ppbv 98
31) cis-1,2-Dichloroethene	5.58	61	1392265	9.554	ppbv 98
32) 1,1,1-Trichloroethane	6.56	97	1752384	9.037	ppbv 97
34) 2-Butanone	5.27	43	2149931	9.454	ppbv 99
35) Carbon Tetrachloride	7.07	117	1725554	9.357	ppbv 99
36) Benzene	6.95	78	2459747	9.098	ppbv 96
37) 1,2-Dichloroethane	6.36	62	1622798	9.784	ppbv 100
38) Trichloroethene	7.90	130	808095	8.010	ppbv 94
39) 1,2-Dichloropropane	7.67	63	1090664	9.426	ppbv 96
40) 1,4-Dioxane	7.89	88	310089	7.292	ppbv # 47
41) Tetrahydrofuran	6.09	42	1317067	9.661	ppbv 98
42) Bromodichloromethane	7.85	83	2082096	9.632	ppbv 97
43) Methyl Methacrylate	8.08	69	1102222	9.896	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	4363356	8.753	ppbv	99
45) t-1,3-Dichloropropene	9.35	75	1395823	10.662	ppbv	98
46) cis-1,3-Dichloropropene	8.77	75	1581454	9.930	ppbv	97
47) 1,1,2-Trichloroethane	9.55	97	983697	9.332	ppbv	96
48) Dibromochloromethane	10.38	129	1580645	10.049	ppbv	98
49) Bromoform	13.13	173	1346929	9.767	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	3138852	9.045	ppbv	99
51) 2-Hexanone	10.20	43	2724889	9.090	ppbv #	99
52) Tetrachloroethene	11.30	164	785584	8.240	ppbv	96
53) Toluene	9.88	91	2713047	9.073	ppbv	100
54) 1,2-Dibromoethane	10.69	107	1459995	9.297	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.21	131	1024907	9.047	ppbv #	58
57) Chlorobenzene	12.23	112	1906425	8.390	ppbv	99
58) Ethyl Benzene	12.79	91	3681670	8.500	ppbv	97
59) m/p-Xylene	13.08	91	5915219m	16.742	ppbv	
60) o-Xylene	13.78	91	2958503	8.407	ppbv	99
61) Styrene	13.62	104	2298344	8.731	ppbv	99
62) Isopropylbenzene	14.76	105	3781805	8.259	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.76	83	2143274	7.474	ppbv	100
64) n-propylbenzene	15.65	120	992513	8.653	ppbv	98
65) tert-Butylbenzene	16.83	119	3184991	8.060	ppbv	99
66) Benzyl Chloride	17.09	91	1514038	10.392	ppbv	99
67) sec-Butylbenzene	17.39	105	4571675	8.045	ppbv	100
69) p-Isopropyltoluene	17.74	119	3735563	8.216	ppbv	100
70) n-Butylbenzene	18.64	91	4198978	8.117	ppbv	99
71) 2-Chlorotoluene	15.55	91	3127066	8.360	ppbv	100
72) 4-Ethyltoluene	15.93	105	3396105	8.553	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	3226711	8.362	ppbv	99
74) 1,2,4-Trimethylbenzene	16.86	105	3173215	7.986	ppbv	98
75) 1,3-Dichlorobenzene	17.09	146	1713392	8.138	ppbv	98
76) 1,4-Dichlorobenzene	17.23	146	1825212m	8.271	ppbv	
77) 1,2-Dichlorobenzene	17.92	146	1749755	8.118	ppbv	98
78) Hexachloro-1,3-Butadiene	23.47	225	1191298	8.101	ppbv	99
79) Naphthalene	22.32	128	3068943	8.543	ppbv	97
80) Naphthalene, 2-methyl-	25.06	142	1768761	14.185	ppbv	99
81) 1,2,4-Trichlorobenzene	22.05	180	1607811m	8.225	ppbv	

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

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