

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034374.D
 Acq On : 19 Nov 2019 9:49
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:52:54 PM

Quant Time: Nov 19 11:25:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 1
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1064840	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2182058	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.14	117	2284667m	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.48	95	1911448	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	1858347	10.123	ppbv 97
3) Chlorodifluoromethane	2.96	51	1186579	9.507	ppbv 99
4) Chloromethane	3.11	50	692935	9.386	ppbv 97
5) Vinyl Chloride	3.23	62	653766	9.287	ppbv 95
6) Bromomethane	3.45	94	349899	10.151	ppbv 94
7) Chloroethane	3.54	64	240763	9.718	ppbv 99
8) Dichlorotetrafluoroethane	3.16	85	1529498	9.615	ppbv 98
9) Propene	2.98	41	526489	9.516	ppbv 99
10) Heptane	8.16	43	1397552	9.842	ppbv 99
11) Trichlorofluoromethane	3.94	101	1685520	9.671	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1120742	9.815	ppbv 100
13) Ethanol	3.59	45	124169	10.024	ppbv 92
14) Bromoethene	3.72	108	485145	10.791	ppbv 99
15) Acetone	3.83	43	1233448	8.098	ppbv 100
16) 1,3-Butadiene	3.30	39	621004	10.035	ppbv 99
17) tert-Butyl alcohol	4.29	59	1219970	12.550	ppbv 100
18) 1,1-Dichloroethene	4.28	96	506527	10.131	ppbv 94
19) Isopropyl Alcohol	3.95	45	978176	11.512	ppbv 99
20) Methylene Chloride	4.34	84	450618	8.184	ppbv 98
21) Allyl Chloride	4.41	41	865447	10.278	ppbv 98
22) trans-1,2-Dichloroethene	4.89	96	520309	10.434	ppbv 95
23) Vinyl Acetate	5.08	43	1862283	9.791	ppbv 98
24) 1,1-Dichloroethane	5.01	63	1371789	9.718	ppbv 99
25) Ethyl Acetate	5.69	43	2420183	9.412	ppbv 99
26) Hexane	5.70	57	1039382	9.483	ppbv 98
27) Carbon Disulfide	4.55	76	1330473	11.693	ppbv 99
28) Methyl tert-Butyl Ether	5.03	73	1822945	10.990	ppbv 98
29) Chloroform	5.77	83	1717162	9.905	ppbv 100
30) Cyclohexane	7.16	84	855081	10.608	ppbv 93
31) cis-1,2-Dichloroethene	5.56	61	1150058	10.339	ppbv 99
32) 1,1,1-Trichloroethane	6.54	97	1722561	10.217	ppbv 99
34) 2-Butanone	5.25	43	1614392	9.051	ppbv 98
35) Carbon Tetrachloride	7.05	117	1780031	9.366	ppbv 99
36) Benzene	6.92	78	2018546	9.641	ppbv 97
37) 1,2-Dichloroethane	6.33	62	1477922	9.472	ppbv 100
38) Trichloroethene	7.87	130	805154m	9.584	ppbv
39) 1,2-Dichloropropane	7.65	63	846618	9.391	ppbv 98
40) 1,4-Dioxane	7.86	88	326448	10.304	ppbv # 1
41) Tetrahydrofuran	6.06	42	931867	9.414	ppbv 95
42) Bromodichloromethane	7.83	83	1919079	10.042	ppbv 99
43) Methyl Methacrylate	8.05	69	857922	9.908	ppbv 96

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 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	3558401	9.183	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	1226245	11.623	ppbv	100
46) cis-1,3-Dichloropropene	8.74	75	1350935	11.146	ppbv	98
47) 1,1,2-Trichloroethane	9.52	97	867274	9.498	ppbv	97
48) Dibromochloromethane	10.36	129	1592475	10.631	ppbv	99
49) Bromoform	13.10	173	1446067	10.895	ppbv	99
50) 4-Methyl-2-Pentanone	8.78	43	2393452	9.374	ppbv	99
51) 2-Hexanone	10.18	43	2025042	9.675	ppbv	98
52) Tetrachloroethene	11.28	164	783775	9.551	ppbv	94
53) Toluene	9.85	91	2362570	10.225	ppbv	99
54) 1,2-Dibromoethane	10.66	107	1335949	9.871	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.19	131	1044182	9.917	ppbv	97
57) Chlorobenzene	12.20	112	1802786	9.459	ppbv	98
58) Ethyl Benzene	12.77	91	3248646	10.172	ppbv	99
59) m/p-Xylene	13.06	91	5482492m	19.813	ppbv	
60) o-Xylene	13.75	91	2687744	9.754	ppbv	99
61) Styrene	13.59	104	2040767	10.520	ppbv	99
62) Isopropylbenzene	14.73	105	3545761	9.748	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	1886379	8.519	ppbv	100
64) n-propylbenzene	15.63	120	927981	9.941	ppbv	98
65) tert-Butylbenzene	16.81	119	3128206	9.703	ppbv	100
66) Benzyl Chloride	17.06	91	1523315	11.964	ppbv	100
67) sec-Butylbenzene	17.36	105	4319791	9.522	ppbv	99
69) p-Isopropyltoluene	17.72	119	3619565	9.786	ppbv	99
70) n-Butylbenzene	18.62	91	3832024	9.522	ppbv	99
71) 2-Chlorotoluene	15.52	91	2808849	9.959	ppbv	100
72) 4-Ethyltoluene	15.90	105	3116971	10.063	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	3013369	9.819	ppbv	96
74) 1,2,4-Trimethylbenzene	16.83	105	3063462	9.572	ppbv #	93
75) 1,3-Dichlorobenzene	17.07	146	1751571	9.116	ppbv	100
76) 1,4-Dichlorobenzene	17.21	146	1757986	9.367	ppbv	99
77) 1,2-Dichlorobenzene	17.89	146	1708186	9.068	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1426326	9.153	ppbv	99
79) Naphthalene	22.29	128	2734147	11.695	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	1521462	22.515	ppbv	95
81) 1,2,4-Trichlorobenzene	22.02	180	1640936	10.747	ppbv	99

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

