

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120418\
 Data File : VL032903.D
 Acq On : 5 Dec 2018 9:07
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 12/10/2018 1:02:17 PM

Quant Time: Dec 05 09:42:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1377155	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3489427	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3880899	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2670375	9.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1726872	8.723	ppbv	100
3) Chlorodifluoromethane	3.02	51	1011487	9.264	ppbv	96
4) Chloromethane	3.17	50	585139	9.665	ppbv	96
5) Vinyl Chloride	3.30	62	605689	9.442	ppbv	99
6) Bromomethane	3.52	94	384634	9.801	ppbv	95
7) Chloroethane	3.61	64	223245	9.656	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1378474	8.837	ppbv	95
9) Propene	3.04	41	483048	11.056	ppbv	100
10) Heptane	8.25	43	1881667	11.280	ppbv	97
11) Trichlorofluoromethane	4.01	101	1597383	8.562	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1207923	7.927	ppbv	95
13) Ethanol	3.66	45	124667	8.711	ppbv	100
14) Bromoethene	3.80	108	490597	9.704	ppbv	99
15) Acetone	3.91	43	1077341	8.566	ppbv	99
16) 1,3-Butadiene	3.37	39	534264	10.970	ppbv	96
17) tert-Butyl alcohol	4.36	59	312343	7.919	ppbv	99
18) 1,1-Dichloroethene	4.36	96	525483	7.013	ppbv	98
19) Isopropyl Alcohol	4.03	45	861042	10.277	ppbv #	99
20) Methylene Chloride	4.42	84	451107	6.929	ppbv	96
21) Allyl Chloride	4.48	41	851142	8.053	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	712535	9.738	ppbv	97
23) Vinyl Acetate	5.16	43	2390501	10.427	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1692506	9.286	ppbv	99
25) Ethyl Acetate	5.78	43	3207324	10.942	ppbv	100
26) Hexane	5.79	57	1452443	11.131	ppbv	98
27) Carbon Disulfide	4.63	76	1829201	11.056	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2166878	10.414	ppbv	98
29) Chloroform	5.86	83	2267509	9.750	ppbv	97
30) Cyclohexane	7.25	84	1270214	11.130	ppbv	98
31) cis-1,2-Dichloroethene	5.65	61	1313586	10.013	ppbv	96
32) 1,1,1-Trichloroethane	6.63	97	2295128	9.004	ppbv	98
34) 2-Butanone	5.34	43	1831121	10.118	ppbv	99
35) Carbon Tetrachloride	7.14	117	2454307	8.749	ppbv	99
36) Benzene	7.01	78	3032976	10.915	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1670376	8.930	ppbv #	97
38) Trichloroethene	7.97	130	1223738	10.882	ppbv	97
39) 1,2-Dichloropropane	7.74	63	1152882	10.890	ppbv	95
40) 1,4-Dioxane	7.96	88	433638	11.468	ppbv #	1
41) Tetrahydrofuran	6.16	42	1225120	11.801	ppbv	98
42) Bromodichloromethane	7.93	83	2439853	9.622	ppbv #	99
43) Methyl Methacrylate	8.15	69	1196274	11.532	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5033134	10.839	ppbv	98
45) t-1,3-Dichloropropene	9.43	75	1662289	11.942	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	1847907	10.988	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	1218495	9.733	ppbv	98
48) Dibromochloromethane	10.46	129	2179772	10.245	ppbv	100
49) Bromoform	13.21	173	1876087	10.677	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2878364	10.182	ppbv	100
51) 2-Hexanone	10.28	43	2384120	13.091	ppbv #	99
52) Tetrachloroethene	11.38	164	1163189	12.034	ppbv	97
53) Toluene	9.96	91	3503281	12.085	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1881322	10.631	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1630852	9.010	ppbv	97
57) Chlorobenzene	12.31	112	2821751	9.498	ppbv	97
58) Ethyl Benzene	12.88	91	4961123	10.622	ppbv	97
59) m/p-Xylene	13.13	91	8158476m	19.622	ppbv	
60) o-Xylene	13.86	91	3864203	9.243	ppbv	97
61) Styrene	13.70	104	3082812	11.328	ppbv	97
62) Isopropylbenzene	14.84	105	5625409	9.955	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2566112	7.874	ppbv	99
64) n-propylbenzene	15.74	120	1384605	9.316	ppbv	93
65) tert-Butylbenzene	16.92	119	4805524	9.487	ppbv	95
66) Benzyl Chloride	17.17	91	2650865	9.466	ppbv	98
67) sec-Butylbenzene	17.47	105	6433373	8.812	ppbv	100
69) p-Isopropyltoluene	17.83	119	5391474	9.288	ppbv	98
70) n-Butylbenzene	18.72	91	5473807	9.287	ppbv	99
71) 2-Chlorotoluene	15.63	91	4019001	9.537	ppbv	97
72) 4-Ethyltoluene	16.01	105	4262238	9.301	ppbv	98
73) 1,3,5-Trimethylbenzene	16.17	105	4020871	8.975	ppbv	97
74) 1,2,4-Trimethylbenzene	16.94	105	4268682	8.904	ppbv	92
75) 1,3-Dichlorobenzene	17.18	146	2397268	8.717	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2381344	9.270	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2370013	9.315	ppbv	99
78) Hexachloro-1,3-Butadiene	23.56	225	1889581	13.762	ppbv	99
79) Naphthalene	22.43	128	5016015	15.926	ppbv	99
80) Naphthalene, 2-methyl-	25.13	142	1261695	15.995	ppbv	96
81) 1,2,4-Trichlorobenzene	22.15	180	2304149	14.568	ppbv	99

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

