

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL103018\
 Data File : VL032710.D
 Acq On : 31 Oct 2018 9:50
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/31/2018 10:40:10 AM

Quant Time: Oct 31 10:20:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 2
 QLast Update : Thu Oct 25 05:15:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1406629	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3625636	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3720963m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2772528	10.01	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	994632	6.940	ppbv	99
3) Chlorodifluoromethane	3.02	51	1158414	10.531	ppbv	98
4) Chloromethane	3.18	50	673863	10.962	ppbv	98
5) Vinyl Chloride	3.30	62	675765	10.149	ppbv	98
6) Bromomethane	3.52	94	406196	9.784	ppbv	95
7) Chloroethane	3.61	64	242745	9.900	ppbv	98
8) Dichlorotetrafluoroethane	3.23	85	1515043	10.030	ppbv	90
9) Propene	3.04	41	548526	12.117	ppbv	99
10) Heptane	8.25	43	1999254	11.460	ppbv	98
11) Trichlorofluoromethane	4.01	101	1562841	8.349	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1118786	7.187	ppbv	89
13) Ethanol	3.65	45	138234	10.684	ppbv	95
14) Bromoethene	3.80	108	516126	9.810	ppbv	99
15) Acetone	3.91	43	1112291	8.563	ppbv	99
16) 1,3-Butadiene	3.37	39	552193	11.556	ppbv	82
17) tert-Butyl alcohol	4.36	59	388245	10.163	ppbv #	100
18) 1,1-Dichloroethene	4.36	96	541973	7.925	ppbv	99
19) Isopropyl Alcohol	4.03	45	926873	10.020	ppbv #	96
20) Methylene Chloride	4.42	84	460281	6.981	ppbv	92
21) Allyl Chloride	4.49	41	898583	8.426	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	634817	9.049	ppbv	89
23) Vinyl Acetate	5.17	43	2716973	11.804	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1884019	10.427	ppbv	98
25) Ethyl Acetate	5.78	43	3153824	10.549	ppbv	99
26) Hexane	5.79	57	1452537	10.268	ppbv	98
27) Carbon Disulfide	4.63	76	1479040	8.619	ppbv	98
28) Methyl tert-Butyl Ether	5.12	73	2435804	11.981	ppbv	99
29) Chloroform	5.86	83	2279161	10.086	ppbv	98
30) Cyclohexane	7.26	84	1321138	11.799	ppbv	97
31) cis-1,2-Dichloroethene	5.65	61	1514137	11.543	ppbv	98
32) 1,1,1-Trichloroethane	6.63	97	2440023	10.626	ppbv	98
34) 2-Butanone	5.34	43	2158203	11.104	ppbv	100
35) Carbon Tetrachloride	7.15	117	2533794	9.847	ppbv	98
36) Benzene	7.02	78	3130229	10.632	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1822311	10.091	ppbv	98
38) Trichloroethene	7.97	130	1239715	11.375	ppbv	98
39) 1,2-Dichloropropane	7.75	63	1225881	10.782	ppbv	98
40) 1,4-Dioxane	7.97	88	405991	10.456	ppbv #	98
41) Tetrahydrofuran	6.16	42	1207051	11.145	ppbv	99
42) Bromodichloromethane	7.93	83	2600644	10.279	ppbv	99
43) Methyl Methacrylate	8.15	69	1282207	11.883	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5274796	10.495	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1876568	12.992	ppbv	97
46) cis-1,3-Dichloropropene	8.85	75	1954441	11.843	ppbv	99
47) 1,1,2-Trichloroethane	9.63	97	1414455	10.529	ppbv	97
48) Dibromochloromethane	10.47	129	2490432	11.122	ppbv	100
49) Bromoform	13.22	173	1894874	10.769	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	3009030	10.450	ppbv	99
51) 2-Hexanone	10.28	43	2582867	12.067	ppbv #	99
52) Tetrachloroethene	11.39	164	1133868	11.046	ppbv	97
53) Toluene	9.96	91	3967891	11.757	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1981627	10.853	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.30	131	1610013	9.895	ppbv	99
57) Chlorobenzene	12.32	112	2768982	10.119	ppbv	94
58) Ethyl Benzene	12.88	91	4897239	11.329	ppbv	98
59) m/p-Xylene	13.14	91	8086650m	21.007	ppbv	
60) o-Xylene	13.87	91	3866307	10.412	ppbv	99
61) Styrene	13.70	104	3023084	12.142	ppbv	97
62) Isopropylbenzene	14.84	105	5529727	10.522	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2592498	8.911	ppbv	100
64) n-propylbenzene	15.74	120	1416757	10.848	ppbv	91
65) tert-Butylbenzene	16.93	119	4650431	10.390	ppbv	95
66) Benzyl Chloride	17.17	91	2714209	11.745	ppbv	98
67) sec-Butylbenzene	17.47	105	6525017	10.251	ppbv	99
69) p-Isopropyltoluene	17.83	119	5308566	10.524	ppbv	98
70) n-Butylbenzene	18.73	91	5681112	10.940	ppbv	99
71) 2-Chlorotoluene	15.63	91	4054484	10.856	ppbv	97
72) 4-Ethyltoluene	16.02	105	4460404	11.278	ppbv	100
73) 1,3,5-Trimethylbenzene	16.17	105	4154263	10.784	ppbv	98
74) 1,2,4-Trimethylbenzene	16.94	105	4189985	10.185	ppbv	96
75) 1,3-Dichlorobenzene	17.18	146	2337532	9.882	ppbv	98
76) 1,4-Dichlorobenzene	17.32	146	2328478	10.667	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2209525	9.859	ppbv	98
78) Hexachloro-1,3-Butadiene	23.56	225	1382785	13.059	ppbv	98
79) Naphthalene	22.43	128	3526251	13.791	ppbv	99
80) Naphthalene, 2-methyl-	25.13	142	1466299	23.583	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1712864	12.935	ppbv	99

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

