

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110718\
 Data File : VL032714.D
 Acq On : 7 Nov 2018 12:58
 Operator : SY/AP
 Sample : VL1107ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABS01

Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:30:01 PM

Quant Time: Nov 07 13:51:47 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	5.78	49	1519813	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3847275	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3969230	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2859677	9.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1832502	11.834	ppbv	99
3) Chlorodifluoromethane	3.02	51	1159770	9.758	ppbv	99
4) Chloromethane	3.18	50	648148	9.758	ppbv	99
5) Vinyl Chloride	3.30	62	683417	9.499	ppbv	99
6) Bromomethane	3.53	94	443399	9.885	ppbv	92
7) Chloroethane	3.61	64	258019	9.739	ppbv	92
8) Dichlorotetrafluoroethane	3.23	85	1607753	9.851	ppbv	93
9) Propene	3.05	41	508159	10.389	ppbv	99
10) Heptane	8.26	43	2030900	10.774	ppbv	100
11) Trichlorofluoromethane	4.02	101	1796397	8.881	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1587239	9.436	ppbv	93
13) Ethanol	3.66	45	129604	9.271	ppbv	99
14) Bromoethene	3.80	108	563302	9.909	ppbv	99
15) Acetone	3.91	43	1193304	8.503	ppbv	99
16) 1,3-Butadiene	3.37	39	555895	10.767	ppbv	84
17) tert-Butyl alcohol	4.37	59	507831	12.303	ppbv #	100
18) 1,1-Dichloroethene	4.36	96	832951	11.272	ppbv	97
19) Isopropyl Alcohol	4.04	45	862274	8.627	ppbv #	97
20) Methylene Chloride	4.42	84	718517	10.086	ppbv	97
21) Allyl Chloride	4.49	41	1347937	11.698	ppbv	98
22) trans-1,2-Dichloroethene	4.98	96	792701	10.459	ppbv	85
23) Vinyl Acetate	5.17	43	2708770	10.892	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1959074	10.035	ppbv	100
25) Ethyl Acetate	5.78	43	3247416	10.053	ppbv	99
26) Hexane	5.79	57	1526756	9.989	ppbv	99
27) Carbon Disulfide	4.63	76	2082228	11.230	ppbv	98
28) Methyl tert-Butyl Ether	5.13	73	2479576	11.288	ppbv	100
29) Chloroform	5.87	83	2578756	10.562	ppbv	99
30) Cyclohexane	7.26	84	1377521	11.386	ppbv	97
31) cis-1,2-Dichloroethene	5.66	61	1534069	10.824	ppbv	97
32) 1,1,1-Trichloroethane	6.63	97	2604983	10.499	ppbv	98
34) 2-Butanone	5.35	43	2097819	10.172	ppbv	100
35) Carbon Tetrachloride	7.15	117	2792240	10.226	ppbv	97
36) Benzene	7.02	78	3275220	10.483	ppbv	99
37) 1,2-Dichloroethane	6.43	62	1989605	10.383	ppbv	98
38) Trichloroethene	7.98	130	1285378	11.114	ppbv	96
39) 1,2-Dichloropropane	7.75	63	1238155	10.263	ppbv	96
40) 1,4-Dioxane	7.97	88	433822	10.529	ppbv #	100
41) Tetrahydrofuran	6.16	42	1310235	11.401	ppbv	100
42) Bromodichloromethane	7.93	83	2807661	10.458	ppbv	99
43) Methyl Methacrylate	8.15	69	1299805	11.352	ppbv	97

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

44) 2,2,4-Trimethylpentane	8.01	57	5518161	10.347	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1821628	11.886	ppbv	99
46) cis-1,3-Dichloropropene	8.85	75	2205305	12.594	ppbv	96
47) 1,1,2-Trichloroethane	9.63	97	1440970	10.108	ppbv	97
48) Dibromochloromethane	10.47	129	2382846	10.028	ppbv	100
49) Bromoform	13.22	173	2054685	11.004	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	3496756	11.444	ppbv	98
51) 2-Hexanone	10.29	43	2441793	10.751	ppbv #	98
52) Tetrachloroethene	11.39	164	1119081	10.274	ppbv	96
53) Toluene	9.96	91	3791810	10.588	ppbv	99
54) 1,2-Dibromoethane	10.78	107	2050185	10.582	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.30	131	1691419	9.745	ppbv	98
57) Chlorobenzene	12.32	112	2822541	9.669	ppbv	95
58) Ethyl Benzene	12.88	91	5093638	11.046	ppbv	99
59) m/p-Xylene	13.16	91	8446216m	20.569	ppbv	
60) o-Xylene	13.87	91	4093269	10.334	ppbv	99
61) Styrene	13.70	104	3097826	11.664	ppbv	98
62) Isopropylbenzene	14.84	105	5807337	10.359	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2856694	9.205	ppbv	99
64) n-propylbenzene	15.74	120	1472267	10.567	ppbv	96
65) tert-Butylbenzene	16.92	119	5343738	11.193	ppbv	97
66) Benzyl Chloride	17.17	91	3241967	13.152	ppbv	100
67) sec-Butylbenzene	17.48	105	7304805	10.758	ppbv	99
69) p-Isopropyltoluene	17.83	119	5752648	10.691	ppbv	99
70) n-Butylbenzene	18.73	91	6347528	11.459	ppbv	99
71) 2-Chlorotoluene	15.63	91	4293633	10.777	ppbv	98
72) 4-Ethyltoluene	16.02	105	4685300	11.106	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	4441375	10.809	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	4813025	10.968	ppbv #	92
75) 1,3-Dichlorobenzene	17.18	146	2696117	10.685	ppbv	99
76) 1,4-Dichlorobenzene	17.33	146	2655187	11.402	ppbv	98
77) 1,2-Dichlorobenzene	18.00	146	2416666	10.109	ppbv	98
78) Hexachloro-1,3-Butadiene	23.56	225	1280887	11.340	ppbv	100
79) Naphthalene	22.43	128	3452760	12.659	ppbv	99
80) Naphthalene, 2-methyl-	25.13	142	1244380	18.762	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1698391	12.023	ppbv	100

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

