

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032953.D
 Acq On : 11 Dec 2018 12:51
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 12/13/2018 7:58:36 AM

Quant Time: Dec 12 16:06:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1229024	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3273254	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3349865	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2586230	10.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1794667	10.938	ppbv	99
3) Chlorodifluoromethane	3.02	51	971090	10.433	ppbv	100
4) Chloromethane	3.17	50	528525	9.753	ppbv	97
5) Vinyl Chloride	3.29	62	552991	10.029	ppbv	98
6) Bromomethane	3.52	94	356911	10.350	ppbv	98
7) Chloroethane	3.61	64	208782	10.565	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	1408828	10.333	ppbv	100
9) Propene	3.04	41	382925	10.404	ppbv	99
10) Heptane	8.25	43	1704471	12.329	ppbv	100
11) Trichlorofluoromethane	4.01	101	1568747	10.148	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1455414	11.036	ppbv	98
13) Ethanol	3.65	45	89093m	7.031	ppbv	
14) Bromoethene	3.79	108	454632	10.383	ppbv	100
15) Acetone	3.90	43	968820	9.184	ppbv	99
16) 1,3-Butadiene	3.36	39	451734	10.793	ppbv	95
17) tert-Butyl alcohol	4.36	59	319430	11.893	ppbv #	81
18) 1,1-Dichloroethene	4.35	96	614190	11.891	ppbv	98
19) Isopropyl Alcohol	4.03	45	648936	9.796	ppbv	100
20) Methylene Chloride	4.41	84	536123	10.398	ppbv #	93
21) Allyl Chloride	4.48	41	976747	11.362	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	608628	9.494	ppbv	96
23) Vinyl Acetate	5.16	43	1870390	10.472	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1488070	9.581	ppbv	99
25) Ethyl Acetate	5.78	43	2533045	10.165	ppbv	100
26) Hexane	5.79	57	1168925	10.160	ppbv	99
27) Carbon Disulfide	4.62	76	1671355	11.619	ppbv	100
28) Methyl tert-Butyl Ether	5.12	73	1843668	10.670	ppbv	99
29) Chloroform	5.86	83	2224793	10.838	ppbv	96
30) Cyclohexane	7.25	84	1058160	11.097	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1212171	11.481	ppbv	97
32) 1,1,1-Trichloroethane	6.63	97	2231186	10.272	ppbv	100
34) 2-Butanone	5.34	43	1409396	9.885	ppbv	100
35) Carbon Tetrachloride	7.14	117	2405859	9.351	ppbv	99
36) Benzene	7.01	78	2482294	10.310	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1578803	9.632	ppbv	100
38) Trichloroethene	7.97	130	1065764	10.637	ppbv	96
39) 1,2-Dichloropropane	7.75	63	955960	10.470	ppbv	94
40) 1,4-Dioxane	7.96	88	353512	10.511	ppbv #	34
41) Tetrahydrofuran	6.16	42	912964	10.296	ppbv	99
42) Bromodichloromethane	7.93	83	2368472	10.429	ppbv	100
43) Methyl Methacrylate	8.15	69	1025533	11.496	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4386829	10.734	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1393372	12.739	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1572843	11.748	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	1071804	10.665	ppbv	99
48) Dibromochloromethane	10.46	129	2051015	10.879	ppbv	100
49) Bromoform	13.21	173	1741331	11.230	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2397920	10.517	ppbv	99
51) 2-Hexanone	10.28	43	1895496	12.259	ppbv #	100
52) Tetrachloroethene	11.38	164	962978	10.996	ppbv	98
53) Toluene	9.96	91	3235494	12.671	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1683039	10.720	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.29	131	1439531	9.639	ppbv	99
57) Chlorobenzene	12.31	112	2302524	9.517	ppbv	97
58) Ethyl Benzene	12.87	91	4122219	11.535	ppbv	99
59) m/p-Xylene	13.15	91	7043360m	21.740	ppbv	
60) o-Xylene	13.86	91	3639630	11.124	ppbv	100
61) Styrene	13.69	104	2645753	12.156	ppbv	99
62) Isopropylbenzene	14.84	105	5287741	11.584	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2500319	9.842	ppbv	100
64) n-propylbenzene	15.73	120	1240752	10.465	ppbv	99
65) tert-Butylbenzene	16.92	119	4581949	10.827	ppbv	99
66) Benzyl Chloride	17.16	91	2544698	10.849	ppbv	100
67) sec-Butylbenzene	17.47	105	5975048	9.576	ppbv	100
69) p-Isopropyltoluene	17.82	119	4987678	9.864	ppbv	99
70) n-Butylbenzene	18.72	91	5105928	10.976	ppbv	100
71) 2-Chlorotoluene	15.63	91	3604753	10.619	ppbv	99
72) 4-Ethyltoluene	16.01	105	3962814	10.849	ppbv	100
73) 1,3,5-Trimethylbenzene	16.17	105	4018779	11.270	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	4185955	10.396	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	2200137	9.279	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	2133252	9.642	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2121017	9.579	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1382929	11.356	ppbv	99
79) Naphthalene	22.42	128	2987608	11.491	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	903881	16.272	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1477918	10.719	ppbv	99

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

