

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032955.D
 Acq On : 11 Dec 2018 15:20
 Operator : SY/AP
 Sample : VL1211ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1211ABS01

Manual Integrations
 APPROVED

MMDadoda
 12/13/2018 7:58:37 AM

Quant Time: Dec 12 01:02:03 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	1290673	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3401834	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3350538m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2668831	10.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1767636	10.259	ppbv	98
3) Chlorodifluoromethane	3.02	51	933987	9.555	ppbv	100
4) Chloromethane	3.17	50	530556	9.323	ppbv	96
5) Vinyl Chloride	3.29	62	554285	9.573	ppbv	99
6) Bromomethane	3.52	94	365075	10.081	ppbv	97
7) Chloroethane	3.61	64	211000	10.167	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1417663	9.901	ppbv	100
9) Propene	3.04	41	370591	9.588	ppbv	99
10) Heptane	8.25	43	1660832	11.439	ppbv	99
11) Trichlorofluoromethane	4.01	101	1572227	9.685	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1424905	10.288	ppbv	98
13) Ethanol	3.65	45	95496	7.176	ppbv	94
14) Bromoethene	3.79	108	467257	10.162	ppbv	100
15) Acetone	3.91	43	976563	8.815	ppbv	99
16) 1,3-Butadiene	3.37	39	452675	10.299	ppbv	96
17) tert-Butyl alcohol	4.36	59	327716	11.619	ppbv #	81
18) 1,1-Dichloroethene	4.36	96	650250	11.988	ppbv	98
19) Isopropyl Alcohol	4.03	45	657340	9.448	ppbv	100
20) Methylene Chloride	4.41	84	553869	10.229	ppbv	97
21) Allyl Chloride	4.48	41	1011918	11.209	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	607721	9.027	ppbv	98
23) Vinyl Acetate	5.16	43	1869132	9.965	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1718346	10.535	ppbv	99
25) Ethyl Acetate	5.77	43	2557402	9.772	ppbv	100
26) Hexane	5.79	57	1188310	9.835	ppbv	99
27) Carbon Disulfide	4.62	76	1631027	10.797	ppbv	100
28) Methyl tert-Butyl Ether	5.12	73	1895392	10.445	ppbv	99
29) Chloroform	5.86	83	2129380	9.877	ppbv	97
30) Cyclohexane	7.25	84	1081641	10.801	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1261508	11.378	ppbv	99
32) 1,1,1-Trichloroethane	6.63	97	2253625	9.880	ppbv	99
34) 2-Butanone	5.34	43	1195856	8.070	ppbv	99
35) Carbon Tetrachloride	7.14	117	2437620	9.116	ppbv	98
36) Benzene	7.01	78	2544668	10.170	ppbv	100
37) 1,2-Dichloroethane	6.42	62	1607493	9.436	ppbv	99
38) Trichloroethene	7.97	130	1092962	10.496	ppbv	98
39) 1,2-Dichloropropane	7.74	63	976312	10.289	ppbv	96
40) 1,4-Dioxane	7.97	88	365929	10.469	ppbv #	94
41) Tetrahydrofuran	6.15	42	919329	9.976	ppbv	99
42) Bromodichloromethane	7.93	83	2398969	10.164	ppbv	98
43) Methyl Methacrylate	8.15	69	1043077	11.250	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4471615	10.528	ppbv	100
45) t-1,3-Dichloropropene	9.43	75	1414115	12.440	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1610481	11.575	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1096768	10.501	ppbv	99
48) Dibromochloromethane	10.46	129	2089699	10.665	ppbv	100
49) Bromoform	13.21	173	1780329	11.047	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2501659	10.558	ppbv	100
51) 2-Hexanone	10.28	43	1928186	11.999	ppbv	99
52) Tetrachloroethene	11.38	164	1008381	11.079	ppbv	98
53) Toluene	9.96	91	3290786	12.401	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1712626	10.496	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1460184	9.775	ppbv	99
57) Chlorobenzene	12.31	112	2330760	9.632	ppbv	98
58) Ethyl Benzene	12.88	91	4186645	11.713	ppbv	99
59) m/p-Xylene	13.13	91	7138624m	22.029	ppbv	
60) o-Xylene	13.86	91	3724166	11.380	ppbv	100
61) Styrene	13.70	104	2575082	11.829	ppbv	99
62) Isopropylbenzene	14.84	105	5336233	11.688	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2562721	10.085	ppbv	100
64) n-propylbenzene	15.73	120	1249894	10.540	ppbv	100
65) tert-Butylbenzene	16.92	119	4616436	10.906	ppbv	99
66) Benzyl Chloride	17.17	91	2728170	11.629	ppbv	100
67) sec-Butylbenzene	17.47	105	6220359	9.968	ppbv	100
69) p-Isopropyltoluene	17.83	119	5191460	10.265	ppbv	100
70) n-Butylbenzene	18.73	91	5319850	11.433	ppbv	99
71) 2-Chlorotoluene	15.63	91	3638997	10.718	ppbv	99
72) 4-Ethyltoluene	16.01	105	4023361	11.012	ppbv	100
73) 1,3,5-Trimethylbenzene	16.17	105	3884241	10.890	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	4206076	10.444	ppbv	98
75) 1,3-Dichlorobenzene	17.18	146	2369429	9.991	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	2233660	10.093	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2209091	9.974	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	978802	8.036	ppbv	99
79) Naphthalene	22.42	128	3093938	11.898	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	803211	14.457	ppbv	100
81) 1,2,4-Trichlorobenzene	22.15	180	1538185	11.154	ppbv	100

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

