

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121719\
 Data File : VL034493.D
 Acq On : 17 Dec 2019 13:16
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 12/19/2019 3:46:48 PM

Quant Time: Dec 18 04:32:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	941729	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1906503	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2116204	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.48	95	1680623	9.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1681089	9.867	ppbv	98
3) Chlorodifluoromethane	2.96	51	1109792	9.445	ppbv	98
4) Chloromethane	3.11	50	580224	8.372	ppbv	99
5) Vinyl Chloride	3.23	62	571985	8.809	ppbv	96
6) Bromomethane	3.45	94	325223	9.954	ppbv	94
7) Chloroethane	3.54	64	213165	9.044	ppbv	94
8) Dichlorotetrafluoroethane	3.16	85	1368507	8.945	ppbv	99
9) Propene	2.98	41	423282	8.114	ppbv	98
10) Heptane	8.15	43	1159205	8.611	ppbv	99
11) Trichlorofluoromethane	3.94	101	1605799	9.471	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1067626	9.482	ppbv	99
13) Ethanol	3.59	45	127901	8.802	ppbv	97
14) Bromoethene	3.72	108	423273	9.245	ppbv	99
15) Acetone	3.84	43	1135312	8.419	ppbv	100
16) 1,3-Butadiene	3.30	39	525553	8.947	ppbv	99
17) tert-Butyl alcohol	4.29	59	1167284	10.298	ppbv	100
18) 1,1-Dichloroethene	4.28	96	459506	9.329	ppbv	94
19) Isopropyl Alcohol	3.96	45	914681	10.582	ppbv	100
20) Methylene Chloride	4.34	84	407354	8.519	ppbv	95
21) Allyl Chloride	4.41	41	775805	9.601	ppbv	100
22) trans-1,2-Dichloroethene	4.89	96	464774	9.361	ppbv	98
23) Vinyl Acetate	5.08	43	1626053	9.231	ppbv	98
24) 1,1-Dichloroethane	5.01	63	1207549	8.924	ppbv	99
25) Ethyl Acetate	5.69	43	2005137	8.333	ppbv	100
26) Hexane	5.70	57	887504	8.583	ppbv	97
27) Carbon Disulfide	4.55	76	1197359	10.632	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1533457	8.944	ppbv	100
29) Chloroform	5.77	83	1479216	8.834	ppbv	96
30) Cyclohexane	7.16	84	697908	8.928	ppbv	99
31) cis-1,2-Dichloroethene	5.56	61	934233	8.743	ppbv	96
32) 1,1,1-Trichloroethane	6.53	97	1508363	9.608	ppbv	100
34) 2-Butanone	5.25	43	1339560	8.536	ppbv	99
35) Carbon Tetrachloride	7.04	117	1624741	9.912	ppbv	99
36) Benzene	6.92	78	1640368	8.607	ppbv	97
37) 1,2-Dichloroethane	6.33	62	1269699	8.968	ppbv	100
38) Trichloroethene	7.87	130	671230	8.582	ppbv	96
39) 1,2-Dichloropropane	7.65	63	694438	9.458	ppbv	96
40) 1,4-Dioxane	7.86	88	268176	8.361	ppbv #	98
41) Tetrahydrofuran	6.06	42	751533	8.538	ppbv	99
42) Bromodichloromethane	7.83	83	1644122	9.285	ppbv	100
43) Methyl Methacrylate	8.05	69	723574	9.154	ppbv	96

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44) 2,2,4-Trimethylpentane	7.90	57	3013861	8.653	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	945006	9.322	ppbv	99
46) cis-1,3-Dichloropropene	8.74	75	1054326	9.259	ppbv	98
47) 1,1,2-Trichloroethane	9.52	97	720656	8.823	ppbv	97
48) Dibromochloromethane	10.35	129	1372576	9.788	ppbv	99
49) Bromoform	13.10	173	1254548	10.022	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	1993167	8.778	ppbv	100
51) 2-Hexanone	10.18	43	1665066	8.755	ppbv	98
52) Tetrachloroethene	11.27	164	639063	7.750	ppbv	96
53) Toluene	9.85	91	1930091	8.916	ppbv	99
54) 1,2-Dibromoethane	10.66	107	1145152	9.145	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.18	131	932580	9.009	ppbv	96
57) Chlorobenzene	12.20	112	1525486	7.974	ppbv	97
58) Ethyl Benzene	12.76	91	2709056	8.249	ppbv	99
59) m/p-Xylene	13.05	91	4581659m	16.140	ppbv	
60) o-Xylene	13.75	91	2304530	8.211	ppbv	100
61) Styrene	13.59	104	1630755	8.057	ppbv	100
62) Isopropylbenzene	14.73	105	3061011	8.246	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	1674773	7.938	ppbv	100
64) n-propylbenzene	15.62	120	797420	8.272	ppbv	97
65) tert-Butylbenzene	16.81	119	2791985	8.373	ppbv	100
66) Benzyl Chloride	17.06	91	1336631	10.420	ppbv	99
67) sec-Butylbenzene	17.36	105	3843508	8.240	ppbv	100
69) p-Isopropyltoluene	17.72	119	3196448	8.257	ppbv	100
70) n-Butylbenzene	18.62	91	3408591	8.184	ppbv	99
71) 2-Chlorotoluene	15.52	91	2413186	8.153	ppbv	100
72) 4-Ethyltoluene	15.90	105	2634435	8.123	ppbv	100
73) 1,3,5-Trimethylbenzene	16.06	105	2561127	8.068	ppbv	98
74) 1,2,4-Trimethylbenzene	16.83	105	2679638	7.946	ppbv #	90
75) 1,3-Dichlorobenzene	17.07	146	1484255	7.658	ppbv	100
76) 1,4-Dichlorobenzene	17.21	146	1490204	7.917	ppbv	100
77) 1,2-Dichlorobenzene	17.89	146	1477224	7.891	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1240573	7.713	ppbv	99
79) Naphthalene	22.29	128	2249753	7.696	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	605990	4.591	ppbv	99
81) 1,2,4-Trichlorobenzene	22.02	180	1267727	7.059	ppbv	98

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

