

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101118\
 Data File : VL032599.D
 Acq On : 11 Oct 2018 9:41
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 10/12/2018 2:07:26 PM

Quant Time: Oct 12 12:51:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 08 2018
 QLast Update : Mon Oct 01 06:49:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1576044	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3611928	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.27	117	3848310m	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2849410	9.82	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	1795293	12.315	ppbv	99
3) Chlorodifluoromethane	3.03	51	1109446	8.465	ppbv	95
4) Chloromethane	3.19	50	625381	8.183	ppbv	97
5) Vinyl Chloride	3.31	62	646764	8.375	ppbv	100
6) Bromomethane	3.53	94	400320	9.479	ppbv	98
7) Chloroethane	3.62	64	250483	9.104	ppbv	98
8) Dichlorotetrafluoroethane	3.24	85	1484040	9.318	ppbv	97
9) Propene	3.05	41	450152	7.916	ppbv	100
10) Heptane	8.28	43	1866272	8.948	ppbv	96
11) Trichlorofluoromethane	4.02	101	1670391	9.639	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.57	101	1415849	9.995	ppbv	99
13) Ethanol	3.67	45	135667	7.937	ppbv	96
14) Bromoethene	3.81	108	499506	9.938	ppbv	100
15) Acetone	3.92	43	1164114	8.415	ppbv	99
16) 1,3-Butadiene	3.38	39	525878	9.373	ppbv	97
17) tert-Butyl alcohol	4.38	59	153850	8.850	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	696017	10.492	ppbv	93
19) Isopropyl Alcohol	4.04	45	885307	9.187	ppbv	99
20) Methylene Chloride	4.43	84	603767	9.013	ppbv	98
21) Allyl Chloride	4.50	41	1107736	9.797	ppbv	97
22) trans-1,2-Dichloroethene	4.98	96	665558	10.645	ppbv	96
23) Vinyl Acetate	5.18	43	1901980	7.780	ppbv	99
24) 1,1-Dichloroethane	5.12	63	1809318	8.888	ppbv	99
25) Ethyl Acetate	5.80	43	2992244	8.914	ppbv	99
26) Hexane	5.80	57	1404190	9.261	ppbv	99
27) Carbon Disulfide	4.64	76	1676722	10.286	ppbv	98
28) Methyl tert-Butyl Ether	5.13	73	1684332	8.917	ppbv	97
29) Chloroform	5.88	83	2226337	9.569	ppbv	99
30) Cyclohexane	7.28	84	1203871	9.751	ppbv	95
31) cis-1,2-Dichloroethene	5.67	61	1344154	9.308	ppbv	95
32) 1,1,1-Trichloroethane	6.65	97	2239582	9.033	ppbv	98
34) 2-Butanone	5.35	43	1894326	8.807	ppbv	97
35) Carbon Tetrachloride	7.16	117	2331297	9.289	ppbv	99
36) Benzene	7.04	78	2883841	9.880	ppbv	99
37) 1,2-Dichloroethane	6.44	62	1746807	9.930	ppbv	98
38) Trichloroethene	7.99	130	1106329	9.902	ppbv	98
39) 1,2-Dichloropropane	7.77	63	1167489	8.875	ppbv	98
40) 1,4-Dioxane	7.98	88	430627	10.677	ppbv #	1
41) Tetrahydrofuran	6.17	42	1116429	9.554	ppbv	94
42) Bromodichloromethane	7.95	83	2552961	9.687	ppbv	100
43) Methyl Methacrylate	8.16	69	1213673	9.953	ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.02	57	5196240	9.109	ppbv	99
45) t-1,3-Dichloropropene	9.45	75	1663912	10.970	ppbv	98
46) cis-1,3-Dichloropropene	8.87	75	1841769	10.352	ppbv	97
47) 1,1,2-Trichloroethane	9.64	97	1339679	9.170	ppbv	97
48) Dibromochloromethane	10.49	129	2283745	9.941	ppbv	100
49) Bromoform	13.23	173	1811876	10.322	ppbv	100
50) 4-Methyl-2-Pentanone	8.90	43	2983047	8.823	ppbv	99
51) 2-Hexanone	10.30	43	2640453	9.443	ppbv	99
52) Tetrachloroethene	11.41	164	962056	9.466	ppbv	97
53) Toluene	9.97	91	3644918	10.247	ppbv	100
54) 1,2-Dibromoethane	10.79	107	2025143	9.745	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.31	131	1646315	9.517	ppbv #	60
57) Chlorobenzene	12.34	112	2759418	8.901	ppbv	97
58) Ethyl Benzene	12.90	91	4639262	9.938	ppbv	98
59) m/p-Xylene	13.18	91	7710905m	18.566	ppbv	
60) o-Xylene	13.88	91	3807039	9.415	ppbv	100
61) Styrene	13.72	104	2753870	10.411	ppbv	99
62) Isopropylbenzene	14.86	105	5347013	9.350	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.87	83	2905472	8.088	ppbv	99
64) n-propylbenzene	15.75	120	1376557	9.370	ppbv	96
65) tert-Butylbenzene	16.94	119	4558032	9.299	ppbv	99
66) Benzyl Chloride	17.19	91	2771937	9.812	ppbv	100
67) sec-Butylbenzene	17.49	105	6685186	9.174	ppbv	100
69) p-Isopropyltoluene	17.85	119	5374338	9.548	ppbv	100
70) n-Butylbenzene	18.75	91	5791434	9.420	ppbv	99
71) 2-Chlorotoluene	15.65	91	4241267	9.738	ppbv	100
72) 4-Ethyltoluene	16.03	105	4397345	10.019	ppbv	99
73) 1,3,5-Trimethylbenzene	16.19	105	4213880	9.879	ppbv	96
74) 1,2,4-Trimethylbenzene	16.96	105	4252381	9.259	ppbv	98
75) 1,3-Dichlorobenzene	17.20	146	2395209	8.452	ppbv	100
76) 1,4-Dichlorobenzene	17.34	146	2361108	9.099	ppbv	99
77) 1,2-Dichlorobenzene	18.02	146	2390395	8.969	ppbv	100
78) Hexachloro-1,3-Butadiene	23.58	225	1464716	14.643	ppbv	99
79) Naphthalene	22.45	128	3777771	11.405	ppbv	100
80) Naphthalene, 2-methyl-	25.14	142	1208034	15.534	ppbv	99
81) 1,2,4-Trichlorobenzene	22.17	180	1781542	10.494	ppbv	100

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

