

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110718\
 Data File : VL032712.D
 Acq On : 7 Nov 2018 10:45
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 11/12/2018 12:29:59 PM

Quant Time: Nov 07 13:46:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 2018
 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	1624542	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	4045735	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	4275360m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2954854	9.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2060265	12.447	ppbv	98
3) Chlorodifluoromethane	3.02	51	1210963	9.532	ppbv	100
4) Chloromethane	3.18	50	689060	9.705	ppbv	100
5) Vinyl Chloride	3.30	62	716539	9.317	ppbv	97
6) Bromomethane	3.53	94	441535	9.208	ppbv	91
7) Chloroethane	3.61	64	254911	9.002	ppbv	96
8) Dichlorotetrafluoroethane	3.23	85	1634627	9.370	ppbv	92
9) Propene	3.05	41	537107	10.273	ppbv	100
10) Heptane	8.26	43	2077707	10.312	ppbv	99
11) Trichlorofluoromethane	4.01	101	1810480	8.374	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1578706	8.781	ppbv	91
13) Ethanol	3.66	45	138480	9.267	ppbv	98
14) Bromoethene	3.80	108	570462	9.388	ppbv	99
15) Acetone	3.91	43	1210057	8.066	ppbv	99
16) 1,3-Butadiene	3.37	39	634412	11.496	ppbv #	76
17) tert-Butyl alcohol	4.37	59	549060	12.445	ppbv #	100
18) 1,1-Dichloroethene	4.36	96	860556	10.895	ppbv	96
19) Isopropyl Alcohol	4.04	45	909579	8.514	ppbv #	97
20) Methylene Chloride	4.42	84	722962	9.494	ppbv	93
21) Allyl Chloride	4.49	41	1404332	11.402	ppbv	99
22) trans-1,2-Dichloroethene	4.98	96	829466	10.238	ppbv	90
23) Vinyl Acetate	5.17	43	2883839	10.849	ppbv	98
24) 1,1-Dichloroethane	5.11	63	2074549	9.942	ppbv	99
25) Ethyl Acetate	5.78	43	3464957	10.035	ppbv	99
26) Hexane	5.80	57	1607288	9.838	ppbv	98
27) Carbon Disulfide	4.63	76	2124181	10.718	ppbv	98
28) Methyl tert-Butyl Ether	5.13	73	2606152	11.099	ppbv	100
29) Chloroform	5.86	83	2651313	10.159	ppbv	98
30) Cyclohexane	7.26	84	1433200	11.082	ppbv	97
31) cis-1,2-Dichloroethene	5.66	61	1605855	10.600	ppbv	99
32) 1,1,1-Trichloroethane	6.64	97	2655528	10.013	ppbv	98
34) 2-Butanone	5.34	43	2244808	10.350	ppbv	100
35) Carbon Tetrachloride	7.15	117	2838967	9.887	ppbv	99
36) Benzene	7.02	78	3393288	10.329	ppbv	100
37) 1,2-Dichloroethane	6.43	62	2023724	10.043	ppbv	98
38) Trichloroethene	7.98	130	1316589	10.826	ppbv	98
39) 1,2-Dichloropropane	7.75	63	1296714	10.221	ppbv	99
40) 1,4-Dioxane	7.97	88	464161	10.713	ppbv #	100
41) Tetrahydrofuran	6.16	42	1364693	11.292	ppbv	99
42) Bromodichloromethane	7.93	83	2854033	10.109	ppbv	100
43) Methyl Methacrylate	8.15	69	1351083	11.221	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	5630956	10.040	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1951975	12.111	ppbv	99
46) cis-1,3-Dichloropropene	8.85	75	2297523	12.477	ppbv	98
47) 1,1,2-Trichloroethane	9.63	97	1481683	9.884	ppbv	98
48) Dibromochloromethane	10.47	129	2439159	9.762	ppbv	100
49) Bromoform	13.22	173	2042650	10.403	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	3532717	10.995	ppbv	99
51) 2-Hexanone	10.29	43	2518160	10.543	ppbv #	98
52) Tetrachloroethene	11.39	164	1176634	10.273	ppbv	94
53) Toluene	9.96	91	3923361	10.418	ppbv	99
54) 1,2-Dibromoethane	10.78	107	2099581	10.305	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.30	131	1756693	9.397	ppbv	100
57) Chlorobenzene	12.32	112	2935250	9.335	ppbv	92
58) Ethyl Benzene	12.88	91	5252595	10.575	ppbv	99
59) m/p-Xylene	13.16	91	8690869m	19.649	ppbv	
60) o-Xylene	13.87	91	4153776	9.736	ppbv	100
61) Styrene	13.70	104	3180047	11.117	ppbv	97
62) Isopropylbenzene	14.84	105	5838404	9.669	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2780886	8.319	ppbv	98
64) n-propylbenzene	15.74	120	1486940	9.909	ppbv	94
65) tert-Butylbenzene	16.93	119	5271949	10.252	ppbv	97
66) Benzyl Chloride	17.17	91	3105912	11.697	ppbv	99
67) sec-Butylbenzene	17.47	105	6912870	9.452	ppbv	99
69) p-Isopropyltoluene	17.83	119	5621547	9.699	ppbv	99
70) n-Butylbenzene	18.73	91	6107689	10.236	ppbv	99
71) 2-Chlorotoluene	15.63	91	4375574	10.196	ppbv	99
72) 4-Ethyltoluene	16.02	105	4712490	10.370	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	4393026	9.925	ppbv	96
74) 1,2,4-Trimethylbenzene	16.94	105	4756178	10.062	ppbv	94
75) 1,3-Dichlorobenzene	17.18	146	2669107	9.820	ppbv	99
76) 1,4-Dichlorobenzene	17.33	146	2633918	10.501	ppbv	98
77) 1,2-Dichlorobenzene	18.01	146	2361266	9.170	ppbv	99
78) Hexachloro-1,3-Butadiene	23.56	225	1545336	12.701	ppbv	100
79) Naphthalene	22.43	128	3712881	12.638	ppbv	100
80) Naphthalene, 2-methyl-	25.13	142	1368241	19.153	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1771133	11.641	ppbv	100

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

