

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102115\
 Data File : VL026251.D
 Acq On : 21 Oct 2015 23:40
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:36:18 PM

Quant Time: Oct 22 15:05:21 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 22 2015
 QLast Update : Wed Oct 21 01:20:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	448222	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	8.31	114	1308204	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.72	117	1680819m	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.26	95	1297233	10.01	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.62	85	1072240	11.54	ppbv	99
3) Chlorodifluoromethane	3.56	51	594895	10.48	ppbv	100
4) Chloromethane	3.73	50	335699	10.96	ppbv	100
5) Vinyl Chloride	3.87	62	349384	10.84	ppbv	98
6) Bromomethane	4.12	94	259226	11.20	ppbv	95
7) Chloroethane	4.22	64	152622	11.29	ppbv	99
8) Dichlorotetrafluoroethane	3.79	85	869486	10.89	ppbv	98
9) Propene	3.58	41	275034	10.36	ppbv	100
10) Heptane	9.33	43	956573	10.76	ppbv	99
11) Trichlorofluoromethane	4.67	101	1059872	11.63	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	5.28	101	672407	10.81	ppbv	98
13) Ethanol	4.31	45	45218	11.35	ppbv	98
14) Bromoethene	4.43	108	294336	11.21	ppbv	100
15) Acetone	4.58	43	643417	9.75	ppbv	98
16) 1,3-Butadiene	3.95	39	319043	10.84	ppbv	98
17) tert-Butyl alcohol	5.10	59	494729	10.97	ppbv	99
18) 1,1-Dichloroethene	5.06	96	306343	10.91	ppbv	98
19) Isopropyl Alcohol	4.73	45	314504	12.19	ppbv	95
20) Methylene Chloride	5.13	84	280620	10.66	ppbv	98
21) Allyl Chloride	5.20	41	470714	10.92	ppbv	98
22) trans-1,2-Dichloroethene	5.74	96	401446	11.09	ppbv	100
23) Vinyl Acetate	5.96	43	1335013	10.97	ppbv	99
24) 1,1-Dichloroethane	5.89	63	849784	11.08	ppbv	100
25) Ethyl Acetate	6.65	43	1318953	10.66	ppbv	100
26) Hexane	6.63	57	651384	10.54	ppbv	99
27) Carbon Disulfide	5.37	76	872621	11.04	ppbv	99
28) Methyl tert-Butyl Ether	5.93	73	1209382	10.76	ppbv	99
29) Chloroform	6.73	83	996729	11.11	ppbv	100
30) Cyclohexane	8.26	84	625908	10.12	ppbv	99
31) cis-1,2-Dichloroethene	6.49	61	623911	11.12	ppbv	99
32) 1,1,1-Trichloroethane	7.57	97	1031434	10.37	ppbv	99
34) 2-Butanone	6.18	43	831011	11.24	ppbv	100
35) Carbon Tetrachloride	8.13	117	1023582	10.27	ppbv	97
36) Benzene	8.00	78	1414967	10.62	ppbv	99
37) 1,2-Dichloroethane	7.35	62	809724	11.82	ppbv	99
38) Trichloroethene	9.04	130	602365	9.32	ppbv	98
39) 1,2-Dichloropropane	8.80	63	521644	11.13	ppbv	95
40) 1,4-Dioxane	9.09	88	133782	15.19	ppbv	95
41) Tetrahydrofuran	7.10	42	480753	11.23	ppbv	99
42) Bromodichloromethane	9.00	83	1123967	11.41	ppbv	100
43) Methyl Methacrylate	9.24	69	566553	11.68	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.06	57	2307090	10.69	ppbv	100
45) t-1,3-Dichloropropene	10.62	75	883272	11.67	ppbv	99
46) cis-1,3-Dichloropropene	9.99	75	1008945	11.39	ppbv	99
47) 1,1,2-Trichloroethane	10.85	97	661631	11.24	ppbv	99
48) Dibromochloromethane	11.77	129	1069053	11.14	ppbv	100
49) Bromoform	14.79	173	873249	10.78	ppbv	100
50) 4-Methyl-2-Pentanone	10.06	43	1179729	11.82	ppbv	99
51) 2-Hexanone	11.59	43	1116214	11.97	ppbv #	100
52) Tetrachloroethene	12.77	164	676042	8.85	ppbv	99
53) Toluene	11.21	91	1975098	10.90	ppbv	99
54) 1,2-Dibromoethane	12.12	107	1022721	11.23	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.76	131	769381	9.54	ppbv	97
57) Chlorobenzene	13.79	112	1631846	10.14	ppbv	98
58) Ethyl Benzene	14.38	91	2832285	10.40	ppbv	99
59) m/p-Xylene	14.69	91	4355660	20.42	ppbv	99
60) o-Xylene	15.46	91	2223798	9.97	ppbv	99
61) Styrene	15.28	104	1097097	10.88	ppbv	99
62) Isopropylbenzene	16.52	105	3144137	10.14	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.46	83	1466802	9.95	ppbv	100
64) n-propylbenzene	17.49	120	872639	10.23	ppbv	92
65) tert-Butylbenzene	18.78	119	2753051	9.72	ppbv	99
66) Benzyl Chloride	19.07	91	1118526	9.57	ppbv	99
67) sec-Butylbenzene	19.38	105	3991499	10.11	ppbv	99
69) p-Isopropyltoluene	19.76	119	3301508	10.00	ppbv	100
70) n-Butylbenzene	20.72	91	3134450	10.39	ppbv	99
71) 2-Chlorotoluene	17.39	91	2391895	10.47	ppbv	99
72) 4-Ethyltoluene	17.79	105	2714302	10.46	ppbv	99
73) 1,3,5-Trimethylbenzene	17.96	105	2499655	10.34	ppbv	100
74) 1,2,4-Trimethylbenzene	18.80	105	2452514	9.78	ppbv	99
75) 1,3-Dichlorobenzene	19.09	146	1634472	9.98	ppbv	100
76) 1,4-Dichlorobenzene	19.24	146	1708763	9.99	ppbv	99
77) 1,2-Dichlorobenzene	19.99	146	1648474	9.98	ppbv	100
78) Hexachloro-1,3-Butadiene	24.64	225	617870	7.29	ppbv	99
79) Naphthalene	23.91	128	1926640	8.72	ppbv	100
80) Naphthalene, 2-methyl-	26.02	142	527169	13.29	ppbv	99
81) 1,2,4-Trichlorobenzene	23.70	180	891135	8.38	ppbv	100

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

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