

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026212.D
 Acq On : 20 Oct 2015 14:43
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:31:05 PM

Quant Time: Oct 20 15:24:36 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Oct 20 2015
 QLast Update : Tue Oct 20 14:37:50 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.64	49	546260	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	8.31	114	1757093	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.73	117	2371584m	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.27	95	1701138	9.25	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.50%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.63	85	1414279	12.41	ppbv	100
3) Chlorodifluoromethane	3.56	51	941176	13.80	ppbv	99
4) Chloromethane	3.73	50	543602	14.71	ppbv	100
5) Vinyl Chloride	3.87	62	575803	14.78	ppbv	99
6) Bromomethane	4.13	94	410403	14.66	ppbv	99
7) Chloroethane	4.22	64	242607	14.78	ppbv	97
8) Dichlorotetrafluoroethane	3.79	85	1376963	14.42	ppbv	100
9) Propene	3.58	41	455216	14.28	ppbv	98
10) Heptane	9.34	43	1536086	14.26	ppbv	100
11) Trichlorofluoromethane	4.68	101	1601034	14.72	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	5.29	101	1073290	14.40	ppbv	99
13) Ethanol	4.31	45	33639	6.42	ppbv	99
14) Bromoethene	4.43	108	462906	14.69	ppbv	99
15) Acetone	4.58	43	980657	12.20	ppbv	99
16) 1,3-Butadiene	3.95	39	523616	14.84	ppbv	99
17) tert-Butyl alcohol	5.10	59	947672	18.80	ppbv	99
18) 1,1-Dichloroethene	5.07	96	496300	14.63	ppbv	93
19) Isopropyl Alcohol	4.73	45	438212	13.99	ppbv	90
20) Methylene Chloride	5.14	84	453298	14.21	ppbv	99
21) Allyl Chloride	5.21	41	764201	14.57	ppbv	97
22) trans-1,2-Dichloroethene	5.75	96	650997	15.04	ppbv	99
23) Vinyl Acetate	5.97	43	2143099	14.53	ppbv	99
24) 1,1-Dichloroethane	5.90	63	1345371	14.66	ppbv	100
25) Ethyl Acetate	6.65	43	2149511	14.51	ppbv	99
26) Hexane	6.64	57	1059959	14.24	ppbv	96
27) Carbon Disulfide	5.37	76	1420269	14.94	ppbv	99
28) Methyl tert-Butyl Ether	5.93	73	1984815	15.05	ppbv	98
29) Chloroform	6.73	83	1603035	15.04	ppbv	99
30) Cyclohexane	8.26	84	1083105	14.67	ppbv	98
31) cis-1,2-Dichloroethene	6.50	61	1013207	15.11	ppbv	99
32) 1,1,1-Trichloroethane	7.58	97	1720675	14.54	ppbv	100
34) 2-Butanone	6.18	43	1360969	13.65	ppbv	99
35) Carbon Tetrachloride	8.15	117	1794312	13.62	ppbv	98
36) Benzene	8.01	78	2416915	13.62	ppbv	98
37) 1,2-Dichloroethane	7.36	62	1311979	14.46	ppbv	100
38) Trichloroethene	9.05	130	986574	11.52	ppbv	99
39) 1,2-Dichloropropane	8.81	63	853290	13.59	ppbv	99
40) 1,4-Dioxane	9.10	88	117345	9.18	ppbv #	1
41) Tetrahydrofuran	7.10	42	805074	13.92	ppbv	99
42) Bromodichloromethane	9.01	83	1829624	14.06	ppbv	100
43) Methyl Methacrylate	9.25	69	938990	14.56	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.07	57	3668865	12.80	ppbv	99
45) t-1,3-Dichloropropene	10.63	75	1506117	15.18	ppbv	99
46) cis-1,3-Dichloropropene	10.01	75	1695399	14.49	ppbv	98
47) 1,1,2-Trichloroethane	10.87	97	1096104	14.11	ppbv	98
48) Dibromochloromethane	11.79	129	1822939	14.56	ppbv	100
49) Bromoform	14.80	173	1567586	15.00	ppbv	99
50) 4-Methyl-2-Pentanone	10.07	43	1928830	14.42	ppbv	100
51) 2-Hexanone	11.60	43	1879463	15.21	ppbv #	98
52) Tetrachloroethene	12.77	164	1111068	11.03	ppbv	99
53) Toluene	11.22	91	3281624	13.75	ppbv	100
54) 1,2-Dibromoethane	12.13	107	1702870	14.22	ppbv	98
56) 1,1,1,2-Tetrachloroethane	13.77	131	1282437	11.32	ppbv	89
57) Chlorobenzene	13.80	112	2681765	11.85	ppbv	99
58) Ethyl Benzene	14.40	91	4697757	12.26	ppbv	99
59) m/p-Xylene	14.70	91	7160461	23.83	ppbv	100
60) o-Xylene	15.47	91	3649224	11.61	ppbv	100
61) Styrene	15.29	104	1931379	13.69	ppbv	100
62) Isopropylbenzene	16.53	105	5248429	12.08	ppbv	99
63) 1,1,2,2-Tetrachloroethane	15.47	83	2337897	11.19	ppbv	100
64) n-propylbenzene	17.50	120	1492212	12.54	ppbv	98
65) tert-Butylbenzene	18.80	119	4509907	11.36	ppbv	99
66) Benzyl Chloride	19.08	91	2167915	13.54	ppbv	99
67) sec-Butylbenzene	19.39	105	6534442	11.87	ppbv	99
69) p-Isopropyltoluene	19.77	119	5501801	11.97	ppbv	99
70) n-Butylbenzene	20.74	91	5134623	12.19	ppbv	99
71) 2-Chlorotoluene	17.41	91	3932885	12.27	ppbv	99
72) 4-Ethyltoluene	17.80	105	4548460	12.53	ppbv	99
73) 1,3,5-Trimethylbenzene	17.97	105	4216459	12.44	ppbv	100
74) 1,2,4-Trimethylbenzene	18.82	105	3998271	11.34	ppbv	97
75) 1,3-Dichlorobenzene	19.11	146	2756508	12.05	ppbv	100
76) 1,4-Dichlorobenzene	19.26	146	2928184	12.30	ppbv	100
77) 1,2-Dichlorobenzene	20.01	146	2833231	12.36	ppbv	100
78) Hexachloro-1,3-Butadiene	24.66	225	1246118	12.03	ppbv	100
79) Naphthalene	23.91	128	4084577	15.70	ppbv	99
80) Naphthalene, 2-methyl-	26.02	142	642123	11.52	ppbv	98
81) 1,2,4-Trichlorobenzene	23.72	180	1775387	13.75	ppbv	100

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

