

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026207.D
 Acq On : 20 Oct 2015 11:16
 Operator : SY/MD
 Sample : VSTDIC002
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:30:50 PM

Quant Time: Oct 20 14:06:56 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 12:43:06 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.62	49	638533	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.29	114	1857860	10.00	ppbv	-0.01
55) Chlorobenzene-d5	13.71	117	2261578	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.25	95	1697755	9.77	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.62	85	271403	2.13	ppbv	98
3) Chlorodifluoromethane	3.55	51	174782	2.30	ppbv	96
4) Chloromethane	3.73	50	90539	2.13	ppbv	99
5) Vinyl Chloride	3.87	62	93646	2.18	ppbv	96
6) Bromomethane	4.12	94	66461	2.12	ppbv	93
7) Chloroethane	4.22	64	39917	2.12	ppbv	97
8) Dichlorotetrafluoroethane	3.79	85	234442	2.19	ppbv	100
9) Propene	3.58	41	79497	2.30	ppbv	99
10) Heptane	9.32	43	252868	2.09	ppbv	99
11) Trichlorofluoromethane	4.67	101	255975	2.11	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	5.28	101	175681	2.13	ppbv	99
13) Ethanol	4.31	45	12491m	2.25	ppbv	
14) Bromoethene	4.43	108	76712	2.25	ppbv	99
15) Acetone	4.59	43	193930	2.26	ppbv #	83
16) 1,3-Butadiene	3.95	39	85107	2.18	ppbv	100
17) tert-Butyl alcohol	5.11	59	122108	2.34	ppbv	99
18) 1,1-Dichloroethene	5.06	96	77840	2.07	ppbv	98
19) Isopropyl Alcohol	4.74	45	75740	2.20	ppbv #	49
20) Methylene Chloride	5.12	84	75206	2.07	ppbv	98
21) Allyl Chloride	5.20	41	121362	2.17	ppbv	99
22) trans-1,2-Dichloroethene	5.74	96	103649	2.18	ppbv	97
23) Vinyl Acetate	5.96	43	349794	2.28	ppbv	97
24) 1,1-Dichloroethane	5.89	63	224573	2.21	ppbv	99
25) Ethyl Acetate	6.65	43	369352	2.27	ppbv	100
26) Hexane	6.63	57	185834	2.33	ppbv	97
27) Carbon Disulfide	5.37	76	225926	2.32	ppbv	98
28) Methyl tert-Butyl Ether	5.93	73	323553	2.48	ppbv	99
29) Chloroform	6.71	83	258530	2.21	ppbv	98
30) Cyclohexane	8.25	84	178180	2.34	ppbv	92
31) cis-1,2-Dichloroethene	6.49	61	163704	2.28	ppbv	99
32) 1,1,1-Trichloroethane	7.57	97	273735	2.43	ppbv	98
34) 2-Butanone	6.18	43	227896	2.22	ppbv	100
35) Carbon Tetrachloride	8.13	117	278889	2.34	ppbv	98
36) Benzene	7.99	78	402182	2.25	ppbv	100
37) 1,2-Dichloroethane	7.34	62	195657	2.06	ppbv	99
38) Trichloroethene	9.03	130	175160	2.13	ppbv	98
39) 1,2-Dichloropropane	8.79	63	140204	2.13	ppbv	98
40) 1,4-Dioxane	9.12	88	25871	2.11	ppbv #	1
41) Tetrahydrofuran	7.10	42	133377	2.32	ppbv	99
42) Bromodichloromethane	8.99	83	294673	2.32	ppbv	100
43) Methyl Methacrylate	9.23	69	143567	2.29	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.06	57	653827	2.21	ppbv	98
45) t-1,3-Dichloropropene	10.62	75	223833	2.56	ppbv	99
46) cis-1,3-Dichloropropene	9.99	75	260593	2.43	ppbv	99
47) 1,1,2-Trichloroethane	10.84	97	175128	2.20	ppbv	98
48) Dibromochloromethane	11.76	129	287015	2.51	ppbv	100
49) Bromoform	14.77	173	244303	2.78	ppbv	99
50) 4-Methyl-2-Pentanone	10.06	43	290810	2.14	ppbv	99
51) 2-Hexanone	11.59	43	273003	2.25	ppbv #	99
52) Tetrachloroethene	12.76	164	191813	2.17	ppbv	98
53) Toluene	11.20	91	546783	2.37	ppbv	99
54) 1,2-Dibromoethane	12.10	107	272099	2.28	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.75	131	215526	2.34	ppbv #	1
57) Chlorobenzene	13.77	112	465780	2.26	ppbv	99
58) Ethyl Benzene	14.38	91	778041	2.35	ppbv	100
59) m/p-Xylene	14.68	91	1244284m	4.68	ppbv	
60) o-Xylene	15.46	91	649147	2.33	ppbv	100
61) Styrene	15.27	104	290626	2.52	ppbv	99
62) Isopropylbenzene	16.50	105	892985	2.41	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.45	83	414435	2.01	ppbv	100
64) n-propylbenzene	17.49	120	244255	2.45	ppbv	93
65) tert-Butylbenzene	18.77	119	828027	2.53	ppbv	98
66) Benzyl Chloride	19.07	91	343462	3.34	ppbv	100
67) sec-Butylbenzene	19.38	105	1146174	2.52	ppbv	99
69) p-Isopropyltoluene	19.75	119	960167	2.62	ppbv	99
70) n-Butylbenzene	20.72	91	876728	2.53	ppbv	100
71) 2-Chlorotoluene	17.39	91	659746	2.45	ppbv	100
72) 4-Ethyltoluene	17.78	105	742109	2.48	ppbv	99
73) 1,3,5-Trimethylbenzene	17.95	105	700618	2.48	ppbv	99
74) 1,2,4-Trimethylbenzene	18.80	105	736548	2.49	ppbv	94
75) 1,3-Dichlorobenzene	19.08	146	475557	2.50	ppbv	99
76) 1,4-Dichlorobenzene	19.24	146	498133	2.59	ppbv	98
77) 1,2-Dichlorobenzene	19.99	146	475359	2.55	ppbv	99
78) Hexachloro-1,3-Butadiene	24.64	225	250469	3.74	ppbv	99
79) Naphthalene	23.91	128	647222	3.91	ppbv	97
80) Naphthalene, 2-methyl-	26.02	142	99578	1.98	ppbv	96
81) 1,2,4-Trichlorobenzene	23.70	180	313610	3.77	ppbv	99

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

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