

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026215.D
 Acq On : 20 Oct 2015 19:49
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL102015

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:31:33 PM

Quant Time: Oct 21 02:29:37 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 20:24:48 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	531906	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	1659053	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.72	117	1940350m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.27	95	1596779	10.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.63	85	873007	7.92	ppbv	99
3) Chlorodifluoromethane	3.56	51	631226	9.37	ppbv	100
4) Chloromethane	3.73	50	366604	10.09	ppbv	98
5) Vinyl Chloride	3.87	62	392488	10.26	ppbv	97
6) Bromomethane	4.13	94	280331	10.21	ppbv	97
7) Chloroethane	4.22	64	165867	10.34	ppbv	100
8) Dichlorotetrafluoroethane	3.79	85	949049	10.02	ppbv	100
9) Propene	3.58	41	302851	9.61	ppbv	99
10) Heptane	9.33	43	1016795	9.63	ppbv	100
11) Trichlorofluoromethane	4.68	101	1124771	10.40	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	5.29	101	764453	10.36	ppbv	99
13) Ethanol	4.31	45	35769	7.56	ppbv	97
14) Bromoethene	4.43	108	326646	10.49	ppbv	99
15) Acetone	4.58	43	687282	8.78	ppbv	100
16) 1,3-Butadiene	3.95	39	347935	9.96	ppbv	99
17) tert-Butyl alcohol	5.10	59	681834	12.74	ppbv	100
18) 1,1-Dichloroethene	5.07	96	354686	10.64	ppbv	99
19) Isopropyl Alcohol	4.73	45	340420	11.12	ppbv	93
20) Methylene Chloride	5.13	84	321592	10.29	ppbv	98
21) Allyl Chloride	5.21	41	549155	10.74	ppbv	99
22) trans-1,2-Dichloroethene	5.74	96	434595	10.11	ppbv	97
23) Vinyl Acetate	5.96	43	1435153	9.94	ppbv	100
24) 1,1-Dichloroethane	5.89	63	905245	9.94	ppbv	100
25) Ethyl Acetate	6.65	43	1420550	9.68	ppbv	100
26) Hexane	6.64	57	704334	9.60	ppbv	99
27) Carbon Disulfide	5.37	76	1002340	10.69	ppbv	97
28) Methyl tert-Butyl Ether	5.93	73	1337326	10.03	ppbv	99
29) Chloroform	6.73	83	1064851	10.00	ppbv	100
30) Cyclohexane	8.26	84	712019	9.70	ppbv	100
31) cis-1,2-Dichloroethene	6.50	61	668614	10.04	ppbv	98
32) 1,1,1-Trichloroethane	7.57	97	1142742	9.68	ppbv	100
34) 2-Butanone	6.18	43	877354	9.36	ppbv	99
35) Carbon Tetrachloride	8.14	117	1191423	9.43	ppbv	96
36) Benzene	8.00	78	1594133	9.44	ppbv	99
37) 1,2-Dichloroethane	7.35	62	866175	9.97	ppbv	100
38) Trichloroethene	9.04	130	680557	8.30	ppbv	99
39) 1,2-Dichloropropane	8.81	63	560327	9.43	ppbv	99
40) 1,4-Dioxane	9.10	88	99837	8.94	ppbv #	1
41) Tetrahydrofuran	7.10	42	525456	9.68	ppbv	99
42) Bromodichloromethane	9.01	83	1221454	9.78	ppbv	98
43) Methyl Methacrylate	9.24	69	606909	9.87	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.07	57	2509803	9.17	ppbv	100
45) t-1,3-Dichloropropene	10.63	75	976326	10.17	ppbv	100
46) cis-1,3-Dichloropropene	10.00	75	1106158	9.85	ppbv	99
47) 1,1,2-Trichloroethane	10.86	97	716877	9.60	ppbv	98
48) Dibromochloromethane	11.78	129	1204321	9.90	ppbv	100
49) Bromoform	14.79	173	1026368	9.99	ppbv	99
50) 4-Methyl-2-Pentanone	10.07	43	1248078	9.86	ppbv	100
51) 2-Hexanone	11.59	43	1205614	10.20	ppbv #	100
52) Tetrachloroethene	12.77	164	753814	7.78	ppbv	99
53) Toluene	11.21	91	2167413	9.43	ppbv	100
54) 1,2-Dibromoethane	12.12	107	1115417	9.65	ppbv	100
56) 1,1,1,2-Tetrachloroethane	13.76	131	867071	9.32	ppbv	99
57) Chlorobenzene	13.79	112	1807137	9.73	ppbv	99
58) Ethyl Benzene	14.39	91	3113827	9.90	ppbv	99
59) m/p-Xylene	14.69	91	4816091	19.56	ppbv	100
60) o-Xylene	15.47	91	2465566	9.58	ppbv	100
61) Styrene	15.29	104	1244696	10.69	ppbv	99
62) Isopropylbenzene	16.52	105	3504612	9.79	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.46	83	1560356	9.17	ppbv	100
64) n-propylbenzene	17.50	120	984229	10.00	ppbv	97
65) tert-Butylbenzene	18.79	119	3163678	9.68	ppbv	100
66) Benzyl Chloride	19.08	91	1441625	10.69	ppbv	100
67) sec-Butylbenzene	19.39	105	4533778	9.95	ppbv	100
69) p-Isopropyltoluene	19.77	119	3815818	10.02	ppbv	99
70) n-Butylbenzene	20.74	91	3472035	9.97	ppbv	100
71) 2-Chlorotoluene	17.40	91	2605442	9.88	ppbv	99
72) 4-Ethyltoluene	17.80	105	3074404	10.27	ppbv	100
73) 1,3,5-Trimethylbenzene	17.97	105	2847165	10.20	ppbv	100
74) 1,2,4-Trimethylbenzene	18.81	105	2794764	9.66	ppbv	99
75) 1,3-Dichlorobenzene	19.10	146	1879712	9.94	ppbv	100
76) 1,4-Dichlorobenzene	19.25	146	1983780	10.04	ppbv	99
77) 1,2-Dichlorobenzene	20.00	146	1915708	10.05	ppbv	100
78) Hexachloro-1,3-Butadiene	24.65	225	870708	8.90	ppbv	100
79) Naphthalene	23.91	128	2638095	10.34	ppbv	100
80) Naphthalene, 2-methyl-	26.02	142	476474	10.41	ppbv	97
81) 1,2,4-Trichlorobenzene	23.71	180	1197709	9.76	ppbv	100

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

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