

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026655.D
 Acq On : 9 Jan 2016 00:15
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400mL/MSVOA L
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL010816

Manual Integrations
 APPROVED

MMDADODA
 1/21/2016 12:06:11 PM

Quant Time: Jan 12 06:17:46 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 18
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	752459	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	2340699	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.73	117	2945222m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.27	95	2557686	10.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.63	85	2074246	10.37	ppbv	99
3) Chlorodifluoromethane	3.56	51	877176	8.76	ppbv	94
4) Chloromethane	3.74	50	402566	8.22	ppbv	98
5) Vinyl Chloride	3.87	62	493055	8.31	ppbv	98
6) Bromomethane	4.13	94	407698	9.65	ppbv	100
7) Chloroethane	4.23	64	210211	8.76	ppbv	97
8) Dichlorotetrafluoroethane	3.79	85	1508583	9.59	ppbv	100
9) Propene	3.58	41	293888	8.16	ppbv	99
10) Heptane	9.34	43	1182700	8.81	ppbv	94
11) Trichlorofluoromethane	4.68	101	2163952	10.43	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	5.29	101	1244357	9.77	ppbv	99
13) Ethanol	4.32	45	35933	5.25	ppbv	98
14) Bromoethene	4.44	108	434055	9.46	ppbv	98
15) Acetone	4.59	43	1003822	8.11	ppbv	99
16) 1,3-Butadiene	3.96	39	433388	8.77	ppbv	99
17) tert-Butyl alcohol	5.10	59	864793	9.26	ppbv	100
18) 1,1-Dichloroethene	5.07	96	509282	9.58	ppbv	99
19) Isopropyl Alcohol	4.73	45	392649	7.69	ppbv #	99
20) Methylene Chloride	5.14	84	465535	9.17	ppbv	94
21) Allyl Chloride	5.21	41	661581	8.71	ppbv	88
22) trans-1,2-Dichloroethene	5.74	96	565081	9.31	ppbv	98
23) Vinyl Acetate	5.96	43	1610332	8.47	ppbv	99
24) 1,1-Dichloroethane	5.89	63	1249494	9.12	ppbv	99
25) Ethyl Acetate	6.65	43	1695865	8.87	ppbv	99
26) Hexane	6.64	57	876550	8.87	ppbv	96
27) Carbon Disulfide	5.37	76	1461310	9.95	ppbv	97
28) Methyl tert-Butyl Ether	5.93	73	1856602	9.45	ppbv	98
29) Chloroform	6.73	83	1765237	9.84	ppbv	97
30) Cyclohexane	8.26	84	937600	9.61	ppbv	97
31) cis-1,2-Dichloroethene	6.50	61	958663	9.63	ppbv	96
32) 1,1,1-Trichloroethane	7.58	97	1955105	9.66	ppbv	99
34) 2-Butanone	6.18	43	1007076	8.07	ppbv	97
35) Carbon Tetrachloride	8.14	117	1963072	9.53	ppbv	97
36) Benzene	8.01	78	2093134	8.69	ppbv	99
37) 1,2-Dichloroethane	7.35	62	1577681	9.58	ppbv	98
38) Trichloroethene	9.04	130	867577	8.07	ppbv	98
39) 1,2-Dichloropropane	8.81	63	696891	8.37	ppbv	94
40) 1,4-Dioxane	9.10	88	154292	8.06	ppbv #	1
41) Tetrahydrofuran	7.10	42	508726	8.23	ppbv	95
42) Bromodichloromethane	9.01	83	2039193	9.58	ppbv	100
43) Methyl Methacrylate	9.24	69	835350	9.50	ppbv	97

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44) 2,2,4-Trimethylpentane	9.07	57	3254954	8.37	ppbv	97
45) t-1,3-Dichloropropene	10.63	75	1450880	10.18	ppbv	97
46) cis-1,3-Dichloropropene	10.00	75	1588743	9.81	ppbv	98
47) 1,1,2-Trichloroethane	10.86	97	1058710	8.92	ppbv	98
48) Dibromochloromethane	11.78	129	1775794	9.97	ppbv	100
49) Bromoform	14.79	173	1464451	10.08	ppbv	100
50) 4-Methyl-2-Pentanone	10.07	43	1528962	8.72	ppbv	99
51) 2-Hexanone	11.59	43	1503777	9.31	ppbv #	98
52) Tetrachloroethene	12.77	164	997628	8.28	ppbv	98
53) Toluene	11.21	91	3170046	9.34	ppbv	99
54) 1,2-Dibromoethane	12.12	107	1722829	9.17	ppbv	98
56) 1,1,1,2-Tetrachloroethane	13.76	131	1328260	9.80	ppbv	98
57) Chlorobenzene	13.79	112	2679108	8.83	ppbv	99
58) Ethyl Benzene	14.39	91	5137747	9.77	ppbv	99
59) m/p-Xylene	14.69	91	8025880m	18.51	ppbv	
60) o-Xylene	15.47	91	4188227	8.94	ppbv	100
61) Styrene	15.29	104	1944933	10.62	ppbv	99
62) Isopropylbenzene	16.52	105	5880512	9.48	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.46	83	2591737	7.42	ppbv	99
64) n-propylbenzene	17.50	120	1552848	9.33	ppbv	98
65) tert-Butylbenzene	18.79	119	5026958	8.84	ppbv	100
66) Benzyl Chloride	19.08	91	1994049	9.82	ppbv	100
67) sec-Butylbenzene	19.39	105	7793336	9.24	ppbv	99
69) p-Isopropyltoluene	19.77	119	6126663	9.50	ppbv	100
70) n-Butylbenzene	20.74	91	6375278	9.50	ppbv	99
71) 2-Chlorotoluene	17.41	91	4723691	9.78	ppbv	99
72) 4-Ethyltoluene	17.80	105	5115813	9.77	ppbv	99
73) 1,3,5-Trimethylbenzene	17.96	105	4749094	9.56	ppbv	100
74) 1,2,4-Trimethylbenzene	18.81	105	4577063	8.68	ppbv #	92
75) 1,3-Dichlorobenzene	19.10	146	2849380	8.75	ppbv	100
76) 1,4-Dichlorobenzene	19.25	146	2993704	8.96	ppbv	98
77) 1,2-Dichlorobenzene	20.00	146	2938157	8.89	ppbv	99
78) Hexachloro-1,3-Butadiene	24.65	225	935277	6.93	ppbv	99
79) Naphthalene	23.91	128	2575996	7.24	ppbv	99
80) Naphthalene, 2-methyl-	26.02	142	242425	4.39	ppbv #	94
81) 1,2,4-Trichlorobenzene	23.71	180	1234699	7.62	ppbv	99

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

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