

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026209.D
 Acq On : 20 Oct 2015 12:32
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:31:00 PM

Quant Time: Oct 20 14:12:25 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Oct 20 14:12:25 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	6.63	49	565624	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.30	114	1674743	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.71	117	2025026	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.26	95	1606849	10.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.63	85	62019	0.55	ppbv	93
3) Chlorodifluoromethane	3.56	51	37552	0.56	ppbv	99
4) Chloromethane	3.73	50	19551	0.52	ppbv	97
5) Vinyl Chloride	3.87	62	19669	0.52	ppbv	97
6) Bromomethane	4.13	94	14837	0.53	ppbv	88
7) Chloroethane	4.22	64	8292	0.50	ppbv	100
8) Dichlorotetrafluoroethane	3.79	85	51367	0.54	ppbv	99
9) Propene	3.58	41	17269	0.56	ppbv	100
10) Heptane	9.33	43	59418	0.56	ppbv	96
11) Trichlorofluoromethane	4.68	101	59559	0.56	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	5.29	101	40933	0.56	ppbv	99
13) Ethanol	4.35	45	2886	0.59	ppbv	83
14) Bromoethene	4.44	108	16794	0.56	ppbv	99
15) Acetone	4.61	43	51685	0.68	ppbv #	83
16) 1,3-Butadiene	3.96	39	19341	0.56	ppbv	92
17) tert-Butyl alcohol	5.16	59	23856	0.52	ppbv	98
18) 1,1-Dichloroethene	5.06	96	18379	0.55	ppbv	98
19) Isopropyl Alcohol	4.78	45	14807	0.49	ppbv #	2
20) Methylene Chloride	5.13	84	17552	0.55	ppbv	96
21) Allyl Chloride	5.21	41	28352	0.57	ppbv	91
22) trans-1,2-Dichloroethene	5.74	96	23046	0.55	ppbv	92
23) Vinyl Acetate	5.97	43	78228	0.58	ppbv	98
24) 1,1-Dichloroethane	5.89	63	49169	0.55	ppbv	98
25) Ethyl Acetate	6.67	43	78266m	0.54	ppbv	
26) Hexane	6.63	57	40011	0.57	ppbv	96
27) Carbon Disulfide	5.37	76	49328	0.57	ppbv #	92
28) Methyl tert-Butyl Ether	5.96	73	72128	0.62	ppbv	99
29) Chloroform	6.72	83	56978	0.55	ppbv	94
30) Cyclohexane	8.26	84	40686	0.60	ppbv #	59
31) cis-1,2-Dichloroethene	6.49	61	35621	0.56	ppbv	92
32) 1,1,1-Trichloroethane	7.57	97	61829	0.62	ppbv	99
34) 2-Butanone	6.21	43	48896	0.53	ppbv	99
35) Carbon Tetrachloride	8.13	117	64122	0.60	ppbv	95
36) Benzene	7.99	78	89515	0.56	ppbv	98
37) 1,2-Dichloroethane	7.35	62	46061	0.54	ppbv	98
38) Trichloroethene	9.03	130	41154	0.56	ppbv	94
39) 1,2-Dichloropropane	8.80	63	31728	0.54	ppbv	100
40) 1,4-Dioxane	9.19	88	4540m	0.41	ppbv	
41) Tetrahydrofuran	7.14	42	27305	0.53	ppbv	99
42) Bromodichloromethane	8.99	83	64805	0.57	ppbv	99
43) Methyl Methacrylate	9.25	69	30519	0.54	ppbv	98

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44) 2,2,4-Trimethylpentane	9.06	57	150917	0.57	ppbv	97
45) t-1,3-Dichloropropene	10.62	75	46963	0.59	ppbv	97
46) cis-1,3-Dichloropropene	9.99	75	57220	0.59	ppbv	98
47) 1,1,2-Trichloroethane	10.85	97	38812	0.54	ppbv	98
48) Dibromochloromethane	11.77	129	62157	0.60	ppbv	99
49) Bromoform	14.77	173	51679	0.65	ppbv	100
50) 4-Methyl-2-Pentanone	10.09	43	64161	0.52	ppbv	100
51) 2-Hexanone	11.62	43	58572	0.54	ppbv #	99
52) Tetrachloroethene	12.76	164	45762	0.57	ppbv	99
53) Toluene	11.21	91	122547	0.59	ppbv	99
54) 1,2-Dibromoethane	12.11	107	60276	0.56	ppbv	98
56) 1,1,1,2-Tetrachloroethane	13.76	131	50740	0.62	ppbv #	1
57) Chlorobenzene	13.78	112	109850	0.60	ppbv	97
58) Ethyl Benzene	14.38	91	182435	0.62	ppbv	99
59) m/p-Xylene	14.69	91	286957	1.20	ppbv	100
60) o-Xylene	15.46	91	154012	0.62	ppbv	100
61) Styrene	15.28	104	60524	0.59	ppbv	99
62) Isopropylbenzene	16.51	105	210073	0.63	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.46	83	96009	0.52	ppbv	99
64) n-propylbenzene	17.49	120	56876	0.64	ppbv	94
65) tert-Butylbenzene	18.78	119	199488	0.68	ppbv	97
66) Benzyl Chloride	19.08	91	70656	0.77	ppbv	99
67) sec-Butylbenzene	19.38	105	269072	0.66	ppbv	99
69) p-Isopropyltoluene	19.75	119	223639	0.68	ppbv	98
70) n-Butylbenzene	20.73	91	200691	0.65	ppbv	99
71) 2-Chlorotoluene	17.39	91	151469	0.63	ppbv	100
72) 4-Ethyltoluene	17.79	105	170432	0.64	ppbv	99
73) 1,3,5-Trimethylbenzene	17.96	105	158072	0.63	ppbv	99
74) 1,2,4-Trimethylbenzene	18.80	105	175570	0.66	ppbv	96
75) 1,3-Dichlorobenzene	19.08	146	110108	0.65	ppbv	100
76) 1,4-Dichlorobenzene	19.24	146	116178	0.67	ppbv	99
77) 1,2-Dichlorobenzene	19.99	146	111100	0.67	ppbv	100
78) Hexachloro-1,3-Butadiene	24.65	225	63522	1.06	ppbv	99
79) Naphthalene	23.91	128	138397	0.93	ppbv	97
80) Naphthalene, 2-methyl-	26.03	142	19624	0.44	ppbv	97
81) 1,2,4-Trichlorobenzene	23.71	180	71691	0.96	ppbv	99

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

