

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026660.D
 Acq On : 9 Jan 2016 4:32
 Operator : SY/AP
 Sample : H1002-16
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-2

Manual Integrations
 APPROVED

MMdadoda
 1/14/2016 10:51:16 AM

Quant Time: Jan 12 05:15:34 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
 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	678244	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	2179985	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.72	117	2952696	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.26	95	2447394	10.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.64	85	92116	0.51	ppbv	98
3) Chlorodifluoromethane	3.56	51	42606	0.47	ppbv	98
4) Chloromethane	3.75	50	18664	0.42	ppbv	91
5) Vinyl Chloride	3.88	62	20771	0.39	ppbv #	88
6) Bromomethane	4.14	94	16474	0.43	ppbv	99
7) Chloroethane	4.24	64	10420	0.48	ppbv #	85
8) Dichlorotetrafluoroethane	3.80	85	67681	0.48	ppbv	99
9) Propene	3.59	41	12761	0.39	ppbv	83
10) Heptane	9.34	43	41642	0.34	ppbv	90
11) Trichlorofluoromethane	4.68	101	97516	0.52	ppbv	87
12) 1,1,2-Trichlorotrifluoroet	5.29	101	58257	0.51	ppbv	95
13) Ethanol	4.36	45	2567m	0.42	ppbv	
14) Bromoethene	4.44	108	17455m	0.42	ppbv	
15) Acetone	4.62	43	65557	0.59	ppbv #	56
16) 1,3-Butadiene	3.96	39	20119m	0.45	ppbv	
17) tert-Butyl alcohol	5.15	59	32290m	0.38	ppbv	
18) 1,1-Dichloroethene	5.07	96	20189	0.42	ppbv	95
19) Isopropyl Alcohol	4.78	45	18961m	0.41	ppbv	
20) Methylene Chloride	5.14	84	24568	0.54	ppbv	95
21) Allyl Chloride	5.22	41	26771	0.39	ppbv #	68
22) trans-1,2-Dichloroethene	5.76	96	23638	0.43	ppbv	92
23) Vinyl Acetate	5.98	43	59482	0.35	ppbv #	95
24) 1,1-Dichloroethane	5.89	63	55812	0.45	ppbv	99
25) Ethyl Acetate	6.68	43	41322m	0.24	ppbv	
26) Hexane	6.65	57	32143	0.36	ppbv	94
27) Carbon Disulfide	5.38	76	57821	0.44	ppbv #	87
28) Methyl tert-Butyl Ether	5.96	73	63582	0.36	ppbv	100
29) Chloroform	6.73	83	76026	0.47	ppbv	92
30) Cyclohexane	8.27	84	36553m	0.42	ppbv	
31) cis-1,2-Dichloroethene	6.50	61	34234	0.38	ppbv	92
32) 1,1,1-Trichloroethane	7.58	97	76041	0.42	ppbv	98
34) 2-Butanone	6.21	43	43550m	0.37	ppbv	
35) Carbon Tetrachloride	8.13	117	76610	0.40	ppbv	97
36) Benzene	8.00	78	75815	0.34	ppbv #	93
37) 1,2-Dichloroethane	7.35	62	62875	0.41	ppbv	99
38) Trichloroethene	9.05	130	35952	0.36	ppbv	94
39) 1,2-Dichloropropane	8.80	63	31188	0.40	ppbv	91
40) 1,4-Dioxane	9.18	88	4162m	0.23	ppbv	
41) Tetrahydrofuran	7.15	42	16328	0.28	ppbv	97
42) Bromodichloromethane	9.00	83	80406m	0.41	ppbv	
43) Methyl Methacrylate	9.25	69	24219	0.30	ppbv	91

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 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)
44) 2,2,4-Trimethylpentane	9.06	57	119761	0.33	ppbv	97
45) t-1,3-Dichloropropene	10.63	75	37592m	0.28	ppbv	
46) cis-1,3-Dichloropropene	10.00	75	43717m	0.29	ppbv	
47) 1,1,2-Trichloroethane	10.85	97	44944	0.41	ppbv	94
48) Dibromochloromethane	11.78	129	66972	0.40	ppbv	97
49) Bromoform	14.79	173	52992	0.39	ppbv	97
50) 4-Methyl-2-Pentanone	10.09	43	48033	0.29	ppbv	94
51) 2-Hexanone	11.63	43	40599m	0.27	ppbv	
52) Tetrachloroethene	12.77	164	44180	0.39	ppbv	97
53) Toluene	11.21	91	96036	0.30	ppbv	98
54) 1,2-Dibromoethane	12.12	107	71150	0.41	ppbv	81
56) 1,1,1,2-Tetrachloroethane	13.76	131	58577	0.43	ppbv #	1
57) Chlorobenzene	13.79	112	139959	0.46	ppbv #	87
58) Ethyl Benzene	14.39	91	173064	0.33	ppbv	95
59) m/p-Xylene	14.69	91	324277m	0.75	ppbv	
60) o-Xylene	15.47	91	196539	0.42	ppbv	93
61) Styrene	15.29	104	55761m	0.30	ppbv	
62) Isopropylbenzene	16.52	105	238599	0.38	ppbv	97
63) 1,1,2,2-Tetrachloroethane	15.46	83	152734	0.44	ppbv	100
64) n-propylbenzene	17.49	120	65054m	0.39	ppbv	
65) tert-Butylbenzene	18.78	119	235124	0.41	ppbv	94
66) Benzyl Chloride	19.08	91	66212	0.33	ppbv	97
67) sec-Butylbenzene	19.38	105	345919	0.41	ppbv	96
69) p-Isopropyltoluene	19.77	119	238119	0.37	ppbv	98
70) n-Butylbenzene	20.74	91	229520	0.34	ppbv	96
71) 2-Chlorotoluene	17.39	91	155132	0.32	ppbv	98
72) 4-Ethyltoluene	17.80	105	175770	0.33	ppbv #	97
73) 1,3,5-Trimethylbenzene	17.96	105	183766	0.37	ppbv	92
74) 1,2,4-Trimethylbenzene	18.80	105	227187	0.43	ppbv #	90
75) 1,3-Dichlorobenzene	19.10	146	149581	0.46	ppbv	96
76) 1,4-Dichlorobenzene	19.25	146	139175	0.42	ppbv	98
77) 1,2-Dichlorobenzene	20.00	146	142432	0.43	ppbv	97
78) Hexachloro-1,3-Butadiene	24.65	225	54969	0.41	ppbv	96
79) Naphthalene	23.92	128	89809m	0.25	ppbv	
80) Naphthalene, 2-methyl-	26.04	142	17487	0.32	ppbv #	86
81) 1,2,4-Trichlorobenzene	23.72	180	51122m	0.31	ppbv	

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

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