

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031426.D
 Acq On : 22 Jan 2018 21:51
 Operator : SY/AP
 Sample : J1089-08 0.1 PPBV MDL
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-1DL

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:21 PM

Quant Time: Jan 23 10:26:01 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 22 2018
 QLast Update : Mon Jan 22 17:52:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.90	49	1169477	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.44	114	2832875	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2723667	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2222080	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	36762	0.22	ppbv	96
3) Chlorodifluoromethane	3.11	51	21140	0.14	ppbv	96
4) Chloromethane	3.28	50	10051	0.15	ppbv	99
5) Vinyl Chloride	3.40	62	9544	0.14	ppbv	99
6) Bromomethane	3.63	94	7167m	0.15	ppbv	
7) Chloroethane	3.71	64	4889m	0.17	ppbv	
8) Dichlorotetrafluoroethane	3.32	85	27204	0.15	ppbv	99
9) Propene	3.13	41	7150m	0.13	ppbv	
10) Heptane	8.40	43	16145	0.10	ppbv	96
11) Trichlorofluoromethane	4.13	101	32070	0.14	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.68	101	19733	0.14	ppbv	99
13) Ethanol	3.78	45	3205m	0.20	ppbv	
14) Bromoethene	3.90	108	7942m	0.14	ppbv	
15) Acetone	4.04	43	32046	0.21	ppbv	99
16) 1,3-Butadiene	3.47	39	9709m	0.15	ppbv	
17) tert-Butyl alcohol	4.52	59	9666m	0.13	ppbv	
18) 1,1-Dichloroethene	4.48	96	8194	0.14	ppbv	89
19) Isopropyl Alcohol	4.17	45	13776m	0.14	ppbv	
20) Methylene Chloride	4.53	84	15325	0.25	ppbv	86
21) Allyl Chloride	4.61	41	12288m	0.13	ppbv	
22) trans-1,2-Dichloroethene	5.10	96	7424	0.12	ppbv	85
23) Vinyl Acetate	5.30	43	22507m	0.12	ppbv	
24) 1,1-Dichloroethane	5.23	63	22597	0.14	ppbv #	96
25) Ethyl Acetate	5.93	43	35366	0.13	ppbv	98
26) Hexane	5.93	57	14941	0.12	ppbv #	86
27) Carbon Disulfide	4.75	76	18369	0.11	ppbv #	65
28) Methyl tert-Butyl Ether	5.27	73	16143	0.11	ppbv	93
29) Chloroform	5.99	83	27376	0.13	ppbv	98
30) Cyclohexane	7.40	84	19290m	0.20	ppbv	
31) cis-1,2-Dichloroethene	5.78	61	14275	0.12	ppbv #	78
32) 1,1,1-Trichloroethane	6.77	97	26116	0.13	ppbv	93
34) 2-Butanone	5.49	43	23140	0.13	ppbv	94
35) Carbon Tetrachloride	7.29	117	29111m	0.13	ppbv	
36) Benzene	7.16	78	28095	0.11	ppbv #	89
37) 1,2-Dichloroethane	6.57	62	25039	0.13	ppbv	98
38) Trichloroethene	8.12	130	13117m	0.13	ppbv	
39) 1,2-Dichloropropane	7.89	63	11888	0.13	ppbv	93
40) 1,4-Dioxane	8.19	88	3978m	0.10	ppbv	
41) Tetrahydrofuran	6.34	42	9247m	0.09	ppbv	
42) Bromodichloromethane	8.07	83	29204	0.12	ppbv #	85
43) Methyl Methacrylate	8.30	69	7690	0.08	ppbv #	79

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.15	57	38784	0.09	ppbv	# 84
45) t-1,3-Dichloropropene	9.58	75	10161m	0.08	ppbv	
46) cis-1,3-Dichloropropene	8.99	75	13302	0.08	ppbv	92
47) 1,1,2-Trichloroethane	9.78	97	13919	0.13	ppbv	# 80
48) Dibromochloromethane	10.62	129	21015m	0.11	ppbv	
49) Bromoform	13.38	173	14953	0.10	ppbv	97
50) 4-Methyl-2-Pentanone	9.06	43	22049m	0.09	ppbv	
51) 2-Hexanone	10.47	43	18342m	0.08	ppbv	
52) Tetrachloroethene	11.54	164	11268	0.12	ppbv	# 70
53) Toluene	10.12	91	25070m	0.08	ppbv	
54) 1,2-Dibromoethane	10.93	107	19392m	0.11	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.44	131	17712m	0.14	ppbv	
57) Chlorobenzene	12.47	112	31573	0.13	ppbv	97
58) Ethyl Benzene	13.03	91	36564m	0.09	ppbv	
59) m/p-Xylene	13.32	91	58622m	0.17	ppbv	
60) o-Xylene	14.01	91	29442m	0.09	ppbv	
61) Styrene	13.85	104	5846m	0.08	ppbv	
62) Isopropylbenzene	14.99	105	43578	0.10	ppbv	100
63) 1,1,2,2-Tetrachloroethane	14.01	83	28521m	0.12	ppbv	
64) n-propylbenzene	15.88	120	9827m	0.09	ppbv	
65) tert-Butylbenzene	17.08	119	31030m	0.08	ppbv	
66) Benzyl Chloride	17.33	91	4318m	0.11	ppbv	
67) sec-Butylbenzene	17.63	105	45739	0.09	ppbv	96
69) p-Isopropyltoluene	17.98	119	33291m	0.08	ppbv	
70) n-Butylbenzene	18.89	91	37708m	0.09	ppbv	
71) 2-Chlorotoluene	15.78	91	31119m	0.10	ppbv	
72) 4-Ethyltoluene	16.16	105	29310m	0.08	ppbv	
73) 1,3,5-Trimethylbenzene	16.33	105	28830m	0.09	ppbv	
74) 1,2,4-Trimethylbenzene	17.09	105	30730	0.09	ppbv	90
75) 1,3-Dichlorobenzene	17.34	146	29232m	0.14	ppbv	
76) 1,4-Dichlorobenzene	17.48	146	26748m	0.13	ppbv	
77) 1,2-Dichlorobenzene	18.16	146	25515m	0.12	ppbv	
78) Hexachloro-1,3-Butadiene	23.70	225	14299m	0.19	ppbv	
79) Naphthalene	22.62	128	17614m	0.08	ppbv	
80) Naphthalene, 2-methyl-	25.25	142	4738	0.08	ppbv	93
81) 1,2,4-Trichlorobenzene	22.34	180	12778m	0.11	ppbv	

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

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