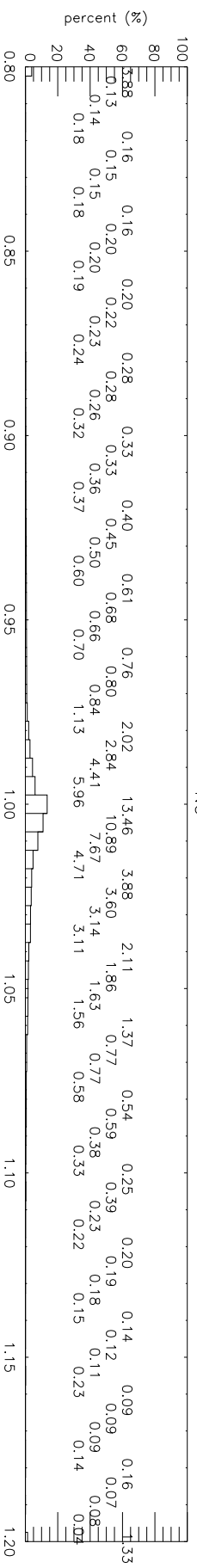


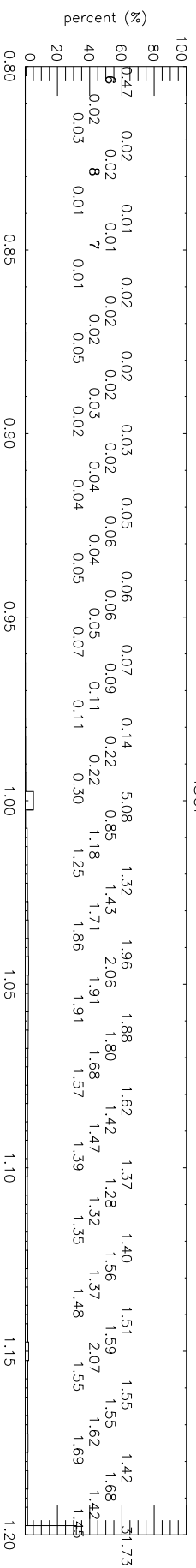
GEOS-Chem v9-02j Frequency Distribution
ctm.bpch.v9-02j / ctm.bpch.v9-02i

NO

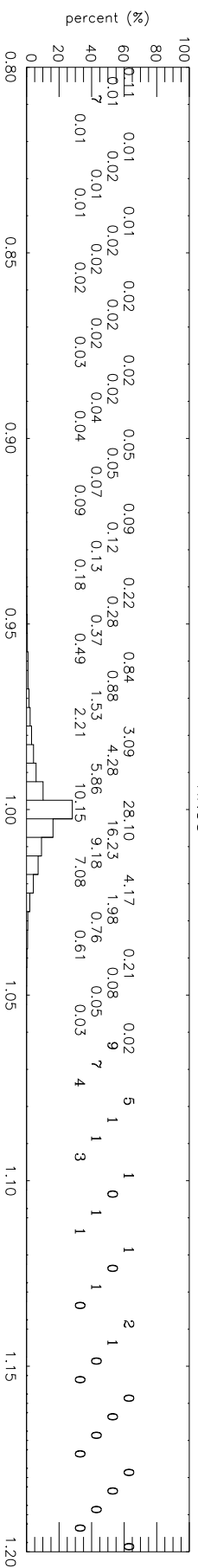


GEOS-Chem v9-02j Frequency Distribution
ctm.bpch.v9-02j / ctm.bpch.v9-02i

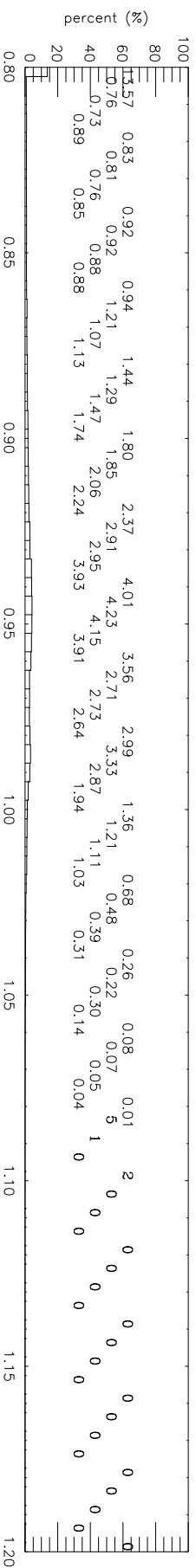
ISOP



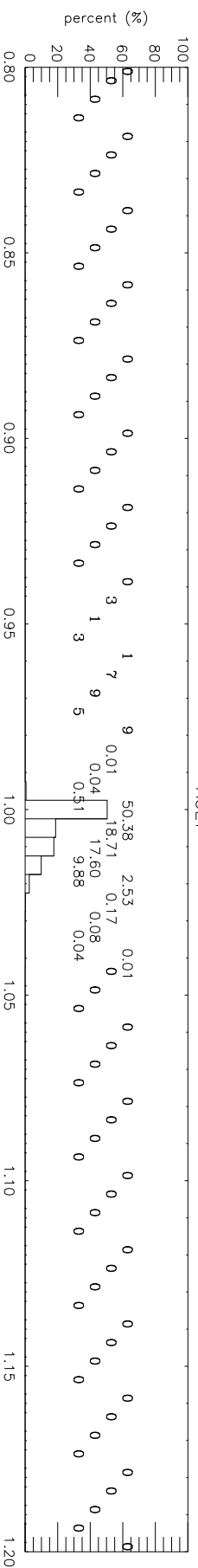
HNO3



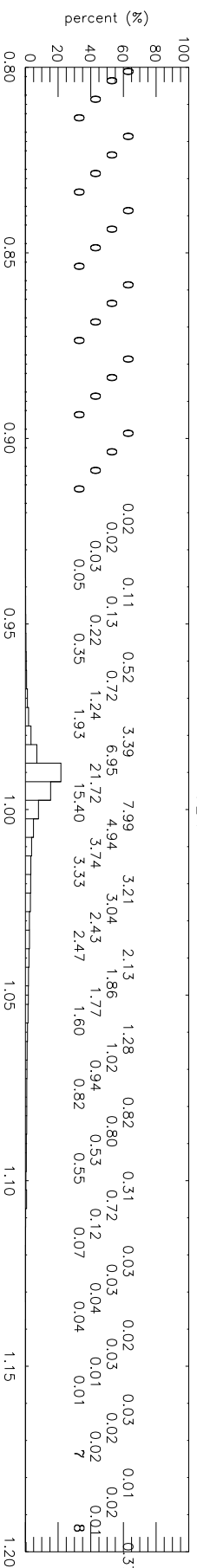
H2O2



ACET

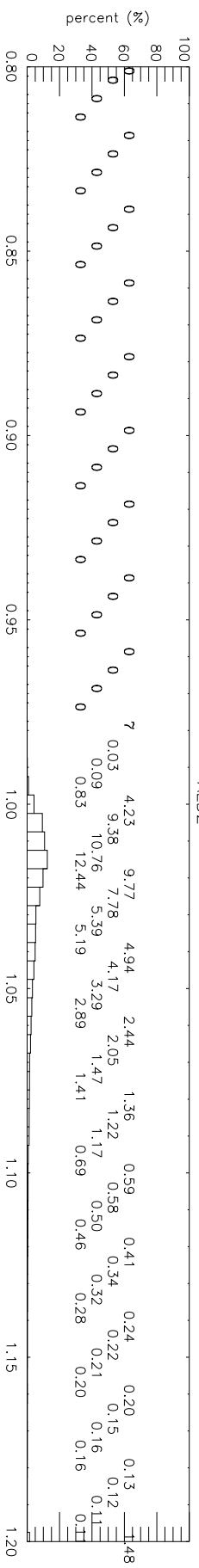


MEK



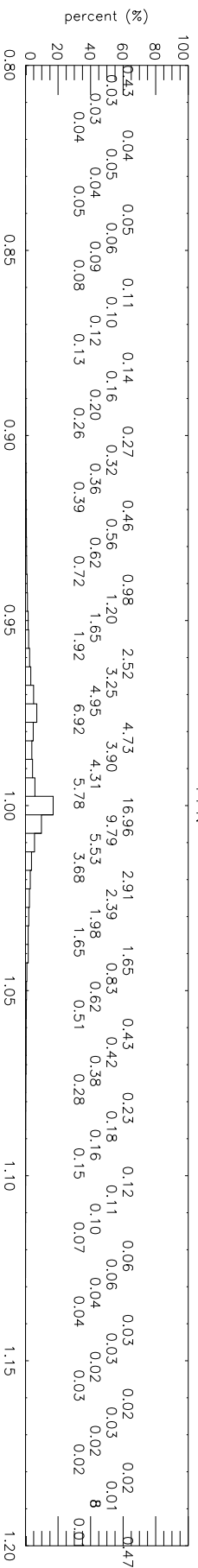
GEOS-Chem v9-02j Frequency Distribution
ctm.bpch.v9-02j / ctm.bpch.v9-02i

ALD2

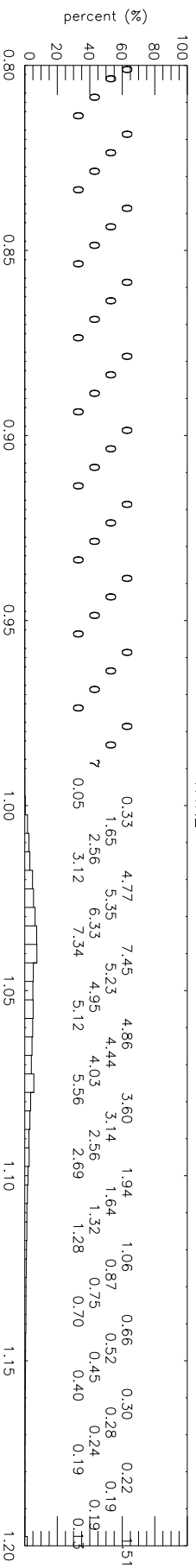


GEOS-Chem v9-02j Frequency Distribution
ctm.bpch.v9-02j / ctm.bpch.v9-02i

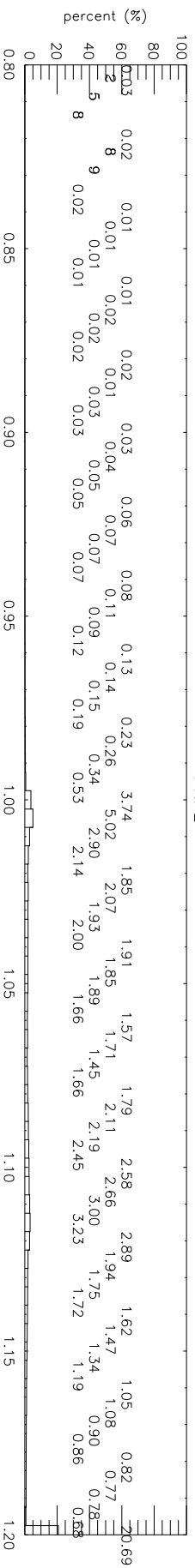
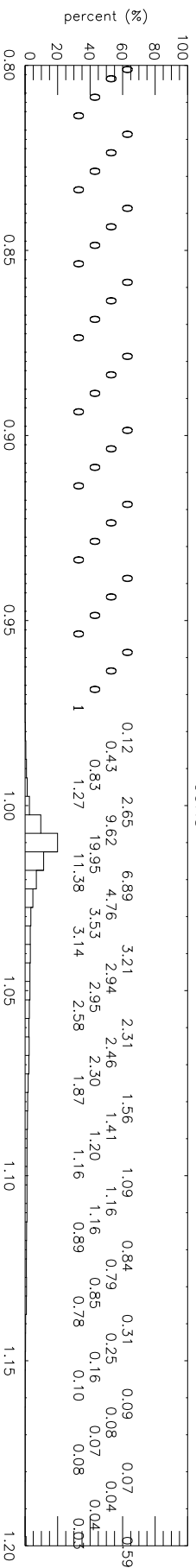
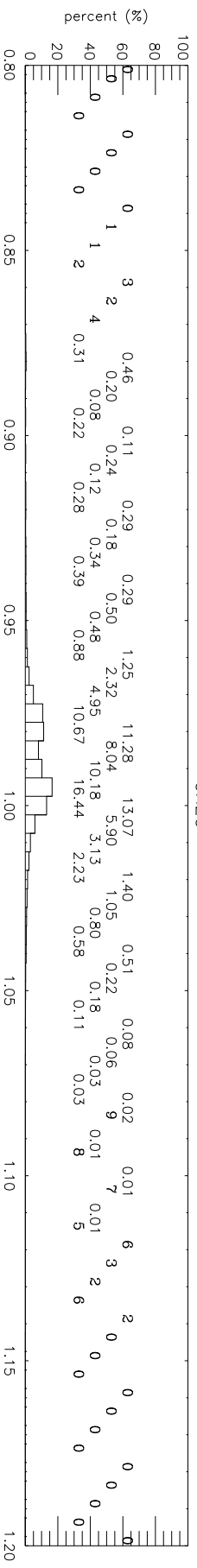
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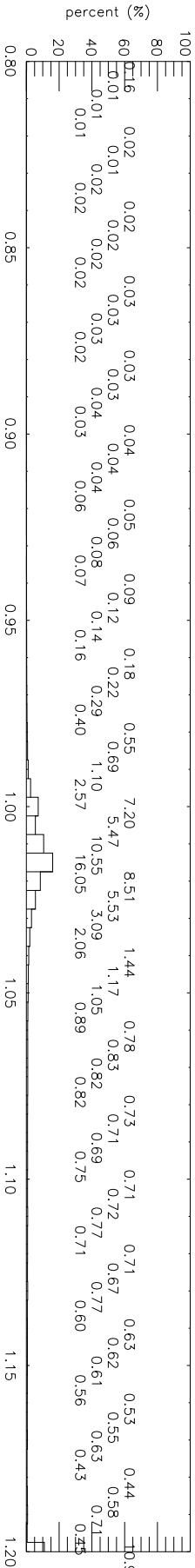
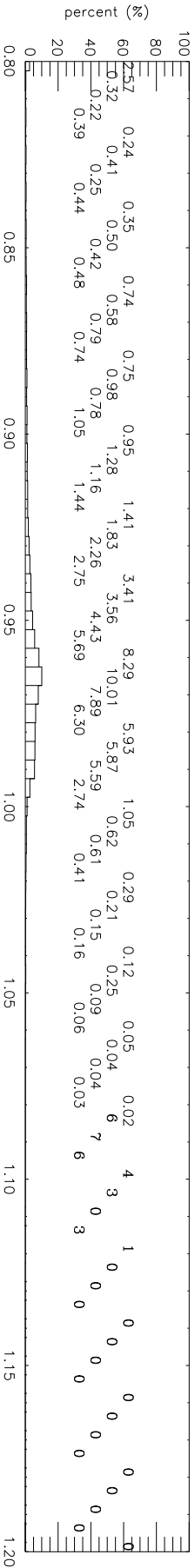
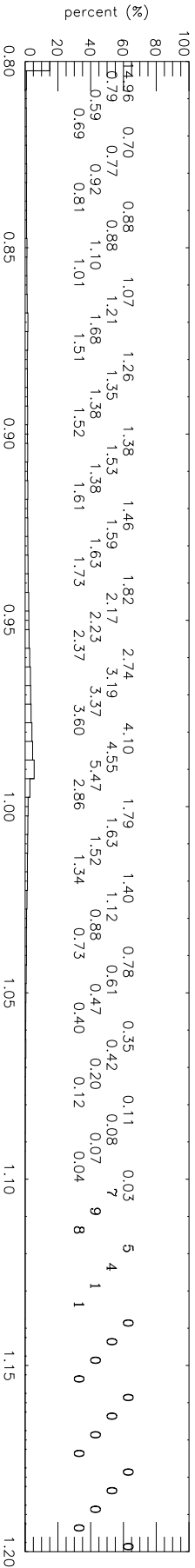
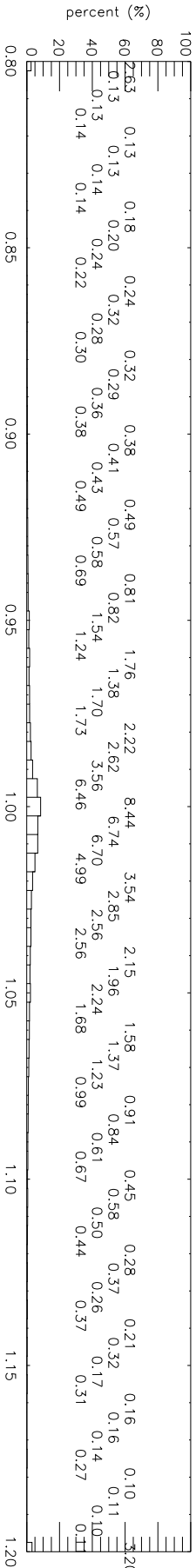
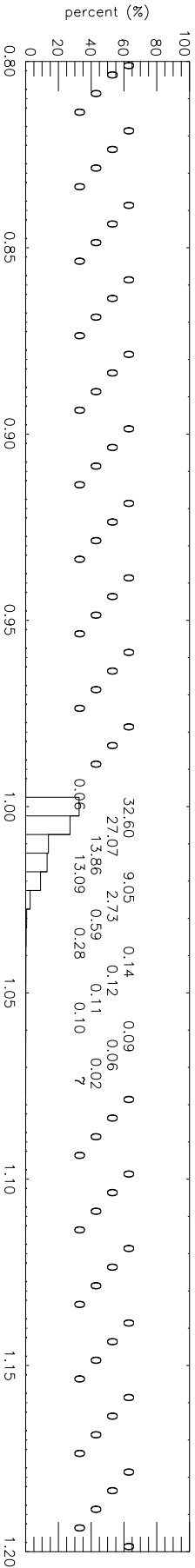
R4N2



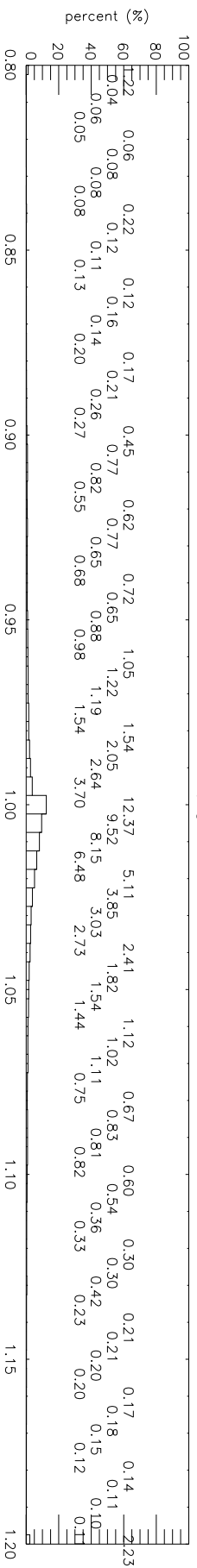
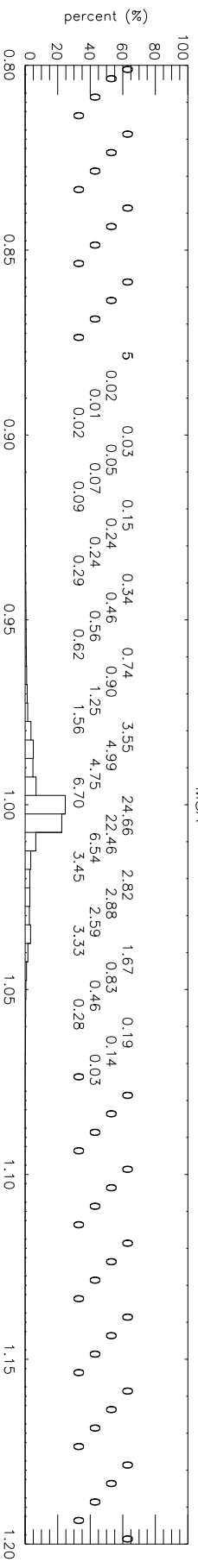
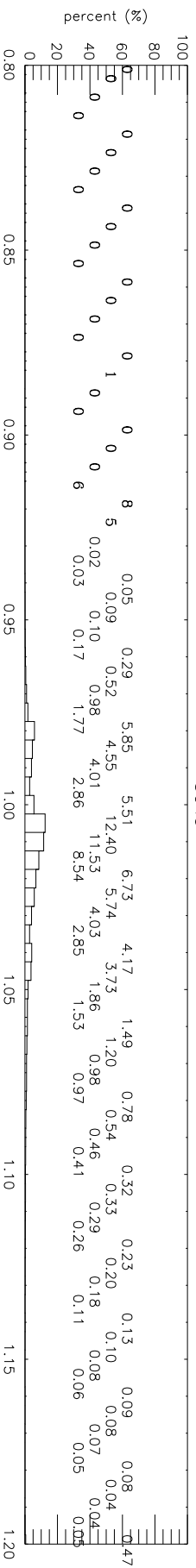
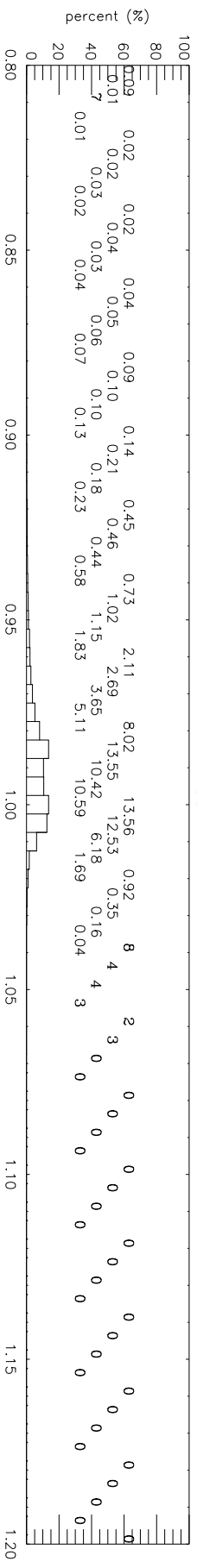
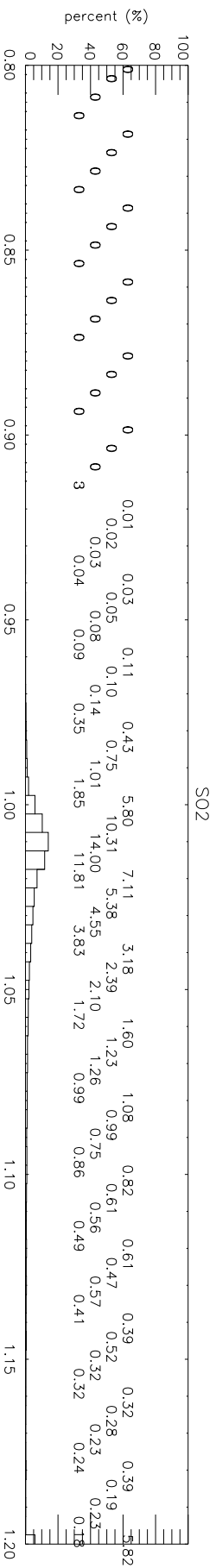
PRPE

 C_3H_8 CH₂O

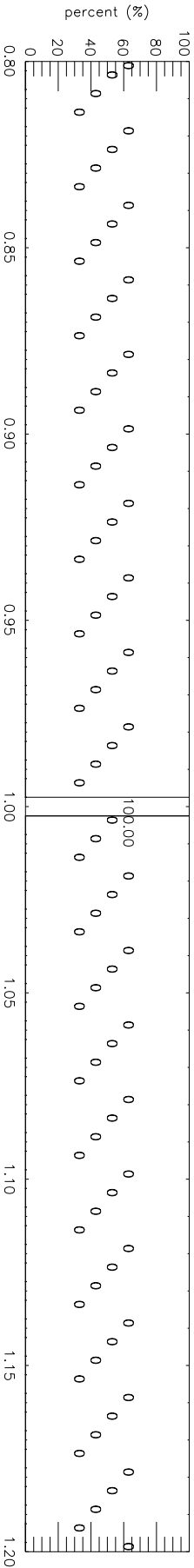
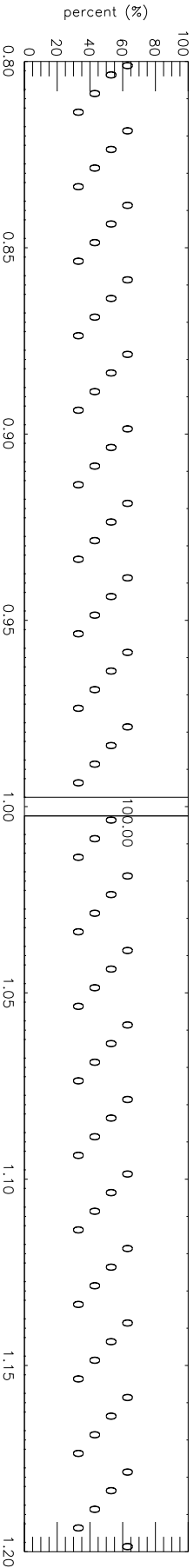
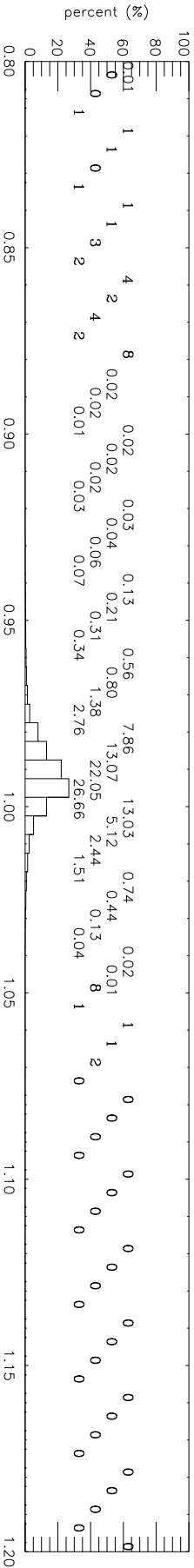
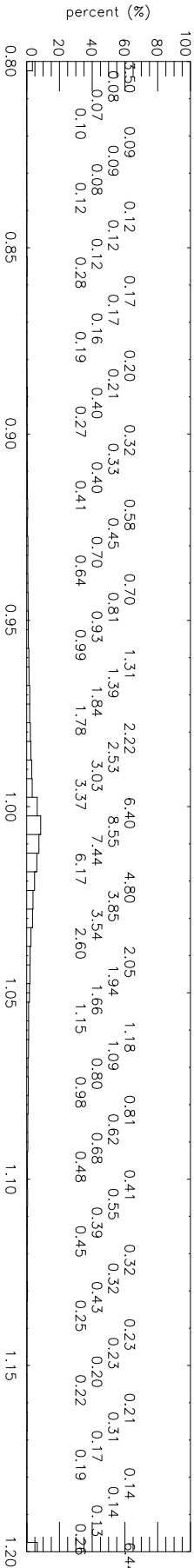
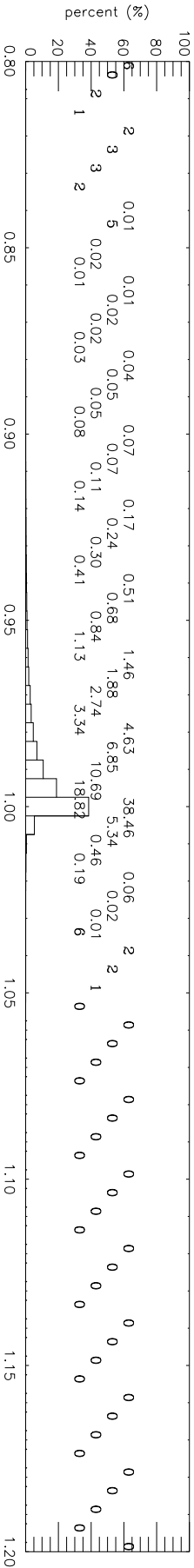
ctm.bpch.v9-02j / ctm.bpch.v9-02i



GEOS-Chem v9-02j Frequency Distribution
ctm.bpch.v9-02j / ctm.bpch.v9-02i

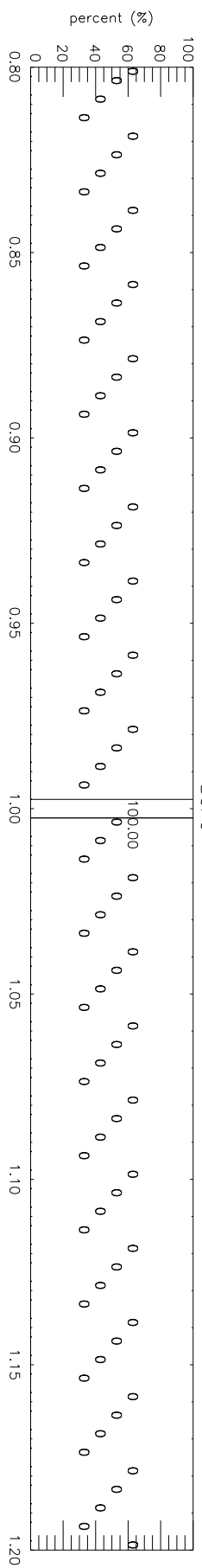


ctm.bpch.v9-02j / ctm.bpch.v9-02i

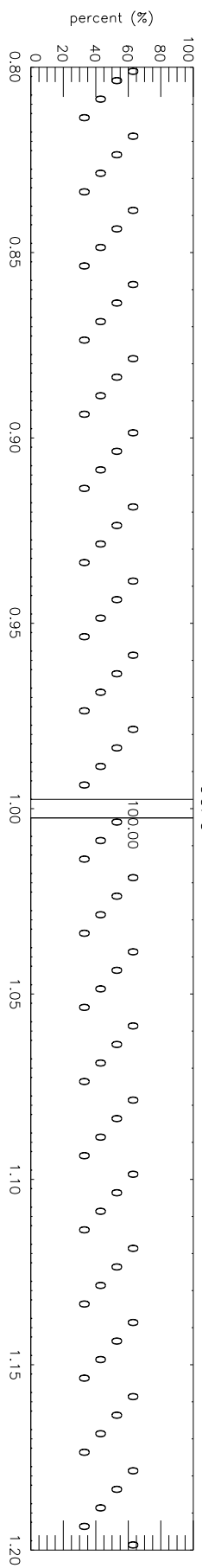


GEOS-Chem v9-02j Frequency Distribution
ctm.bpch.v9-02j / ctm.bpch.v9-02i

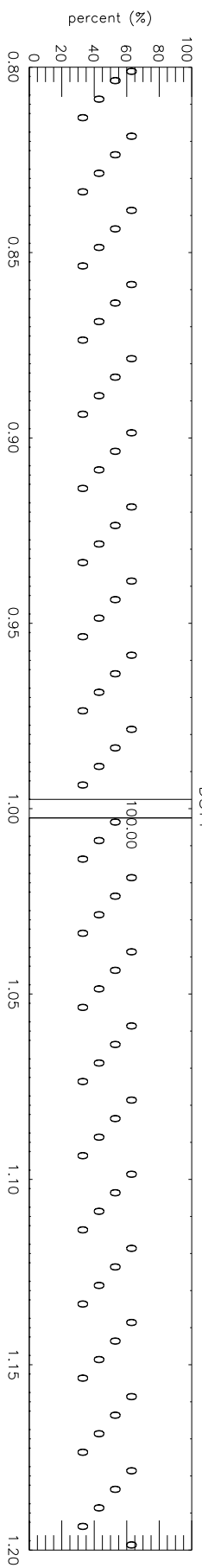
BCPO



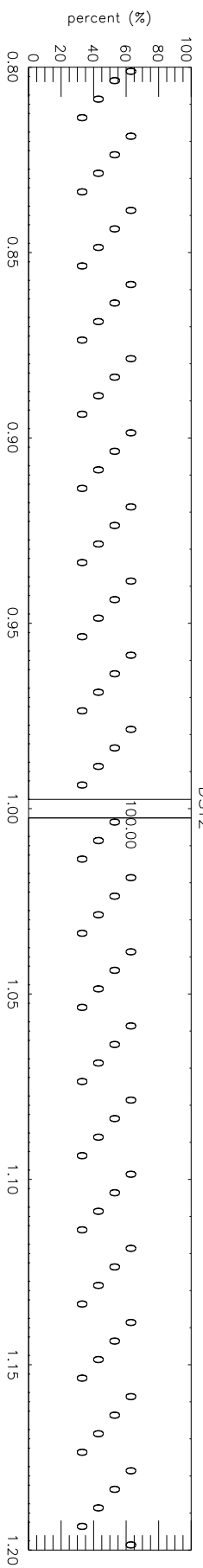
OCPO



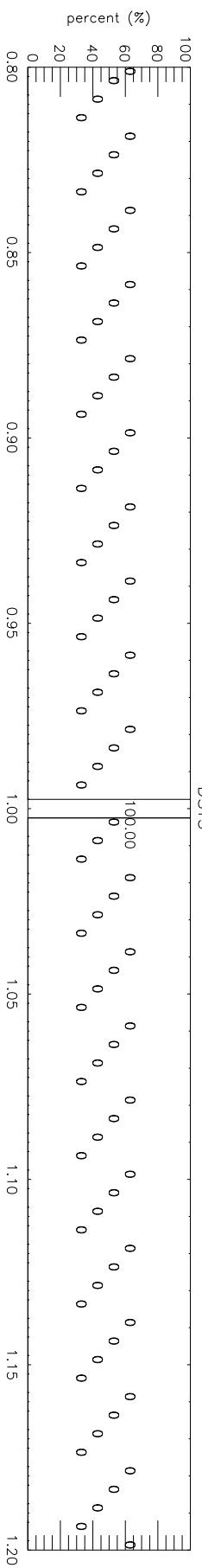
DST1



DST2

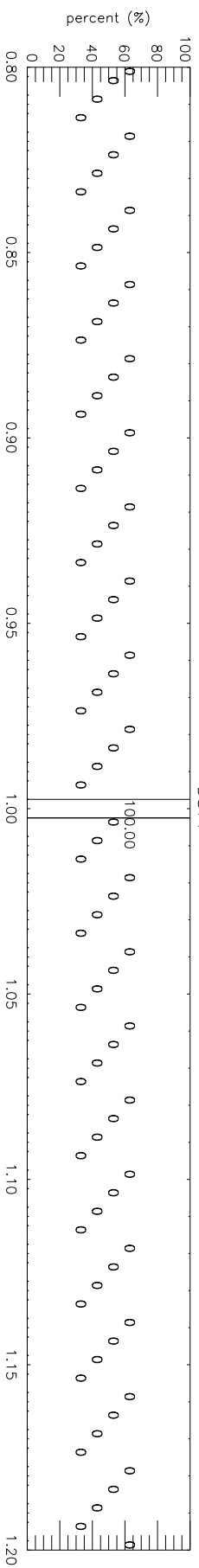


DST3

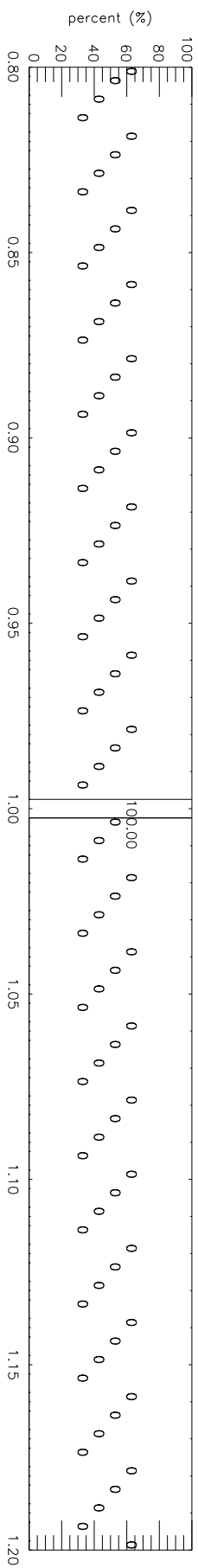


GEOS-Chem v9-02j Frequency Distribution
ctm.bpch.v9-02j / ctm.bpch.v9-02i

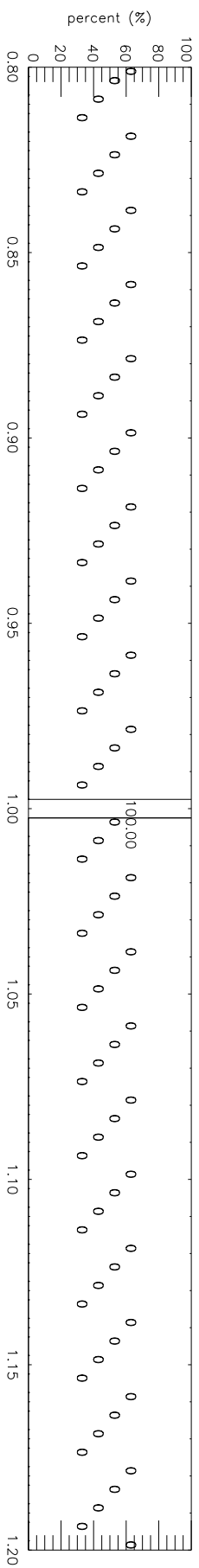
DST4



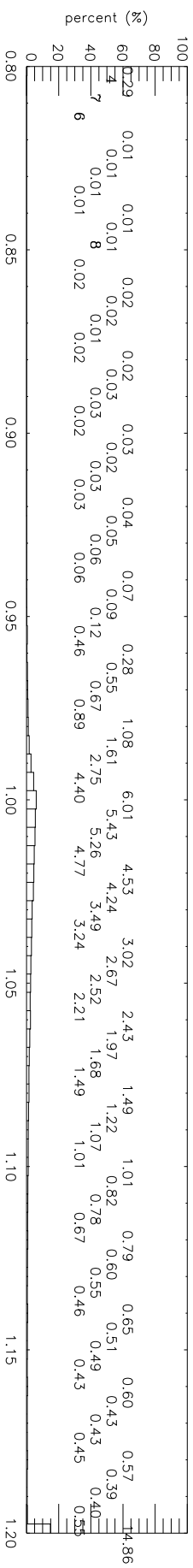
SALA



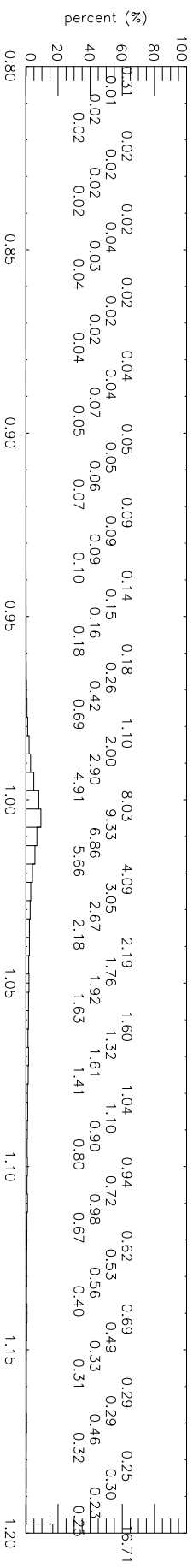
SALC



Br-2

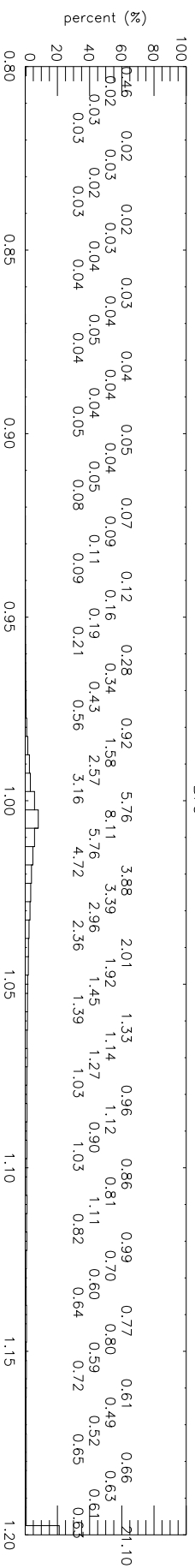


Br

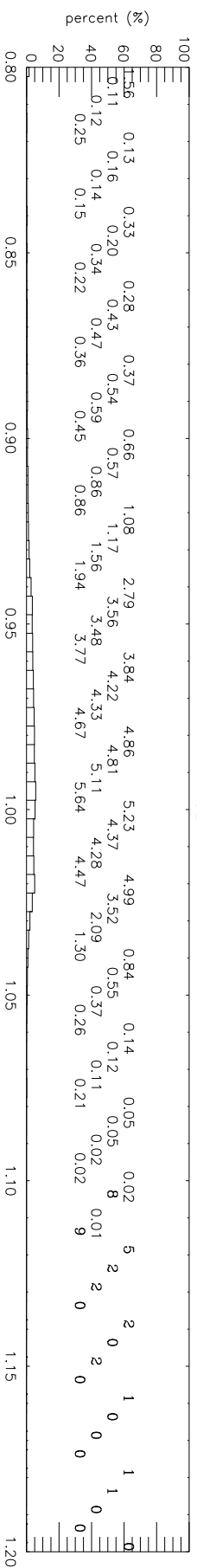


GEOS-Chem v9-02j Frequency Distribution
ctm.bpch.v9-02j / ctm.bpch.v9-02i

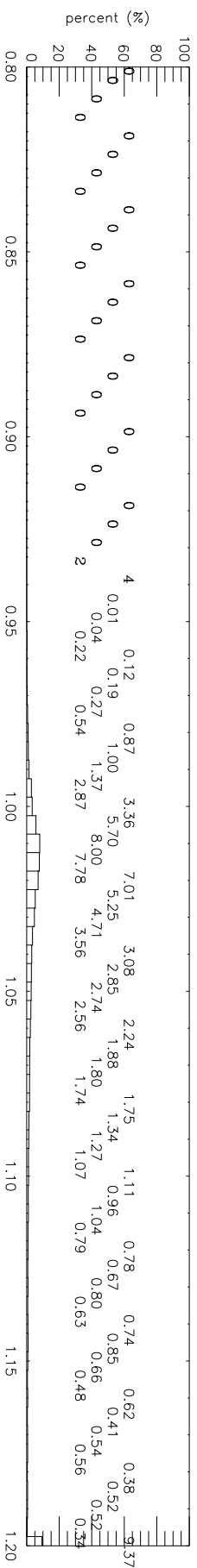
BrO



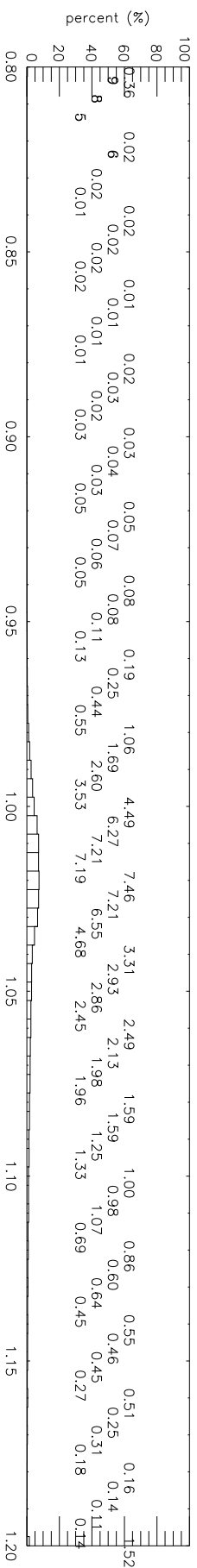
HOBr



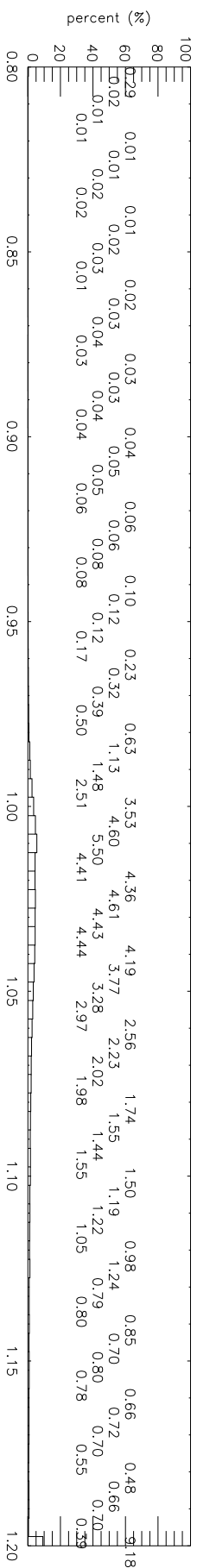
HBr



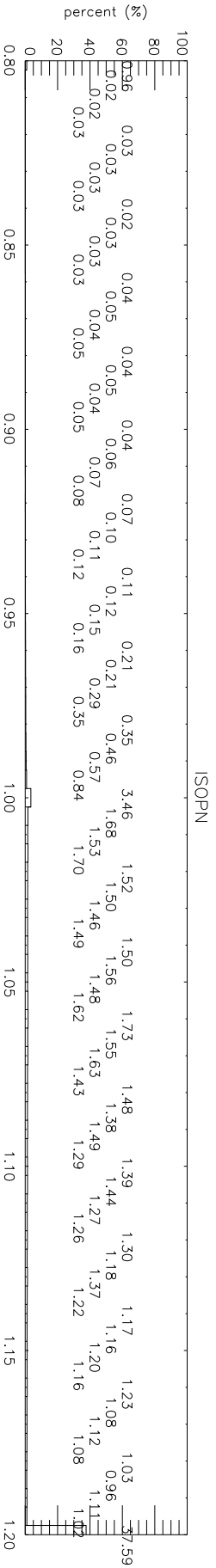
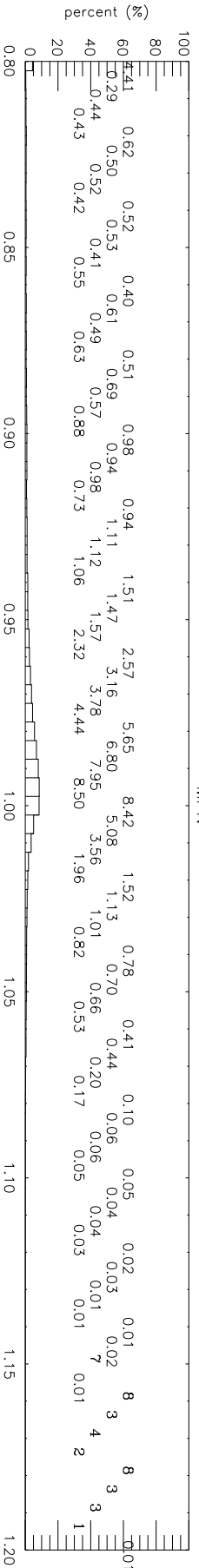
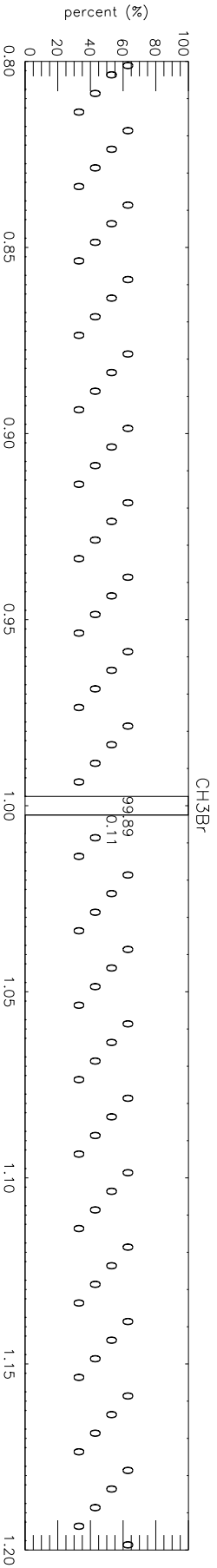
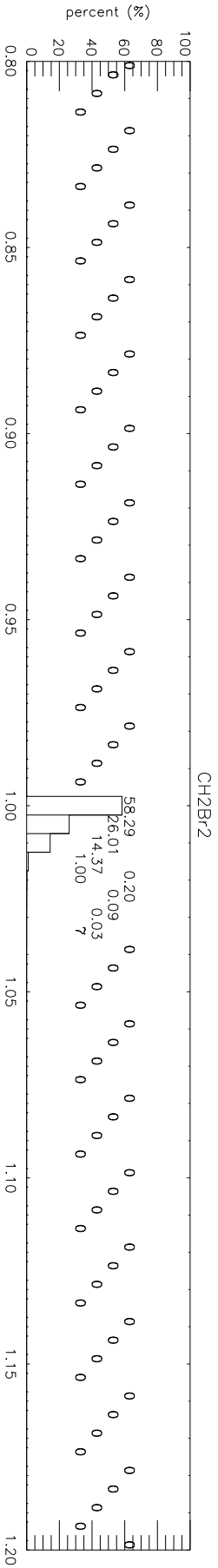
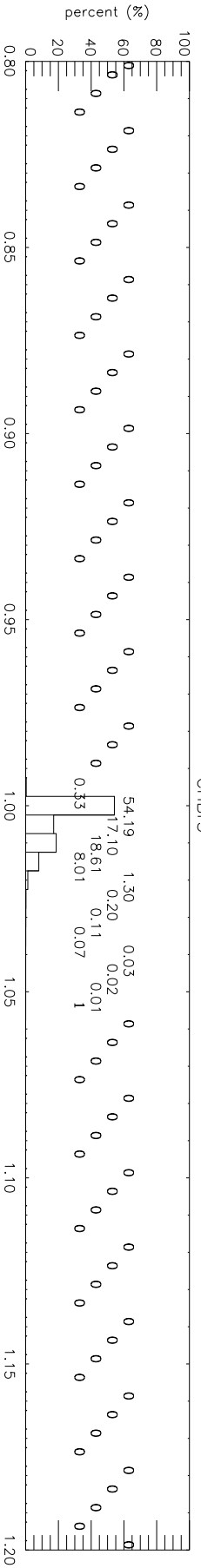
BrNO2



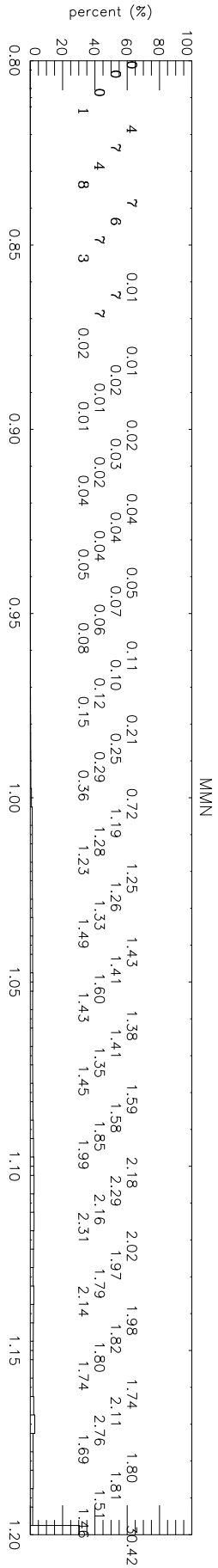
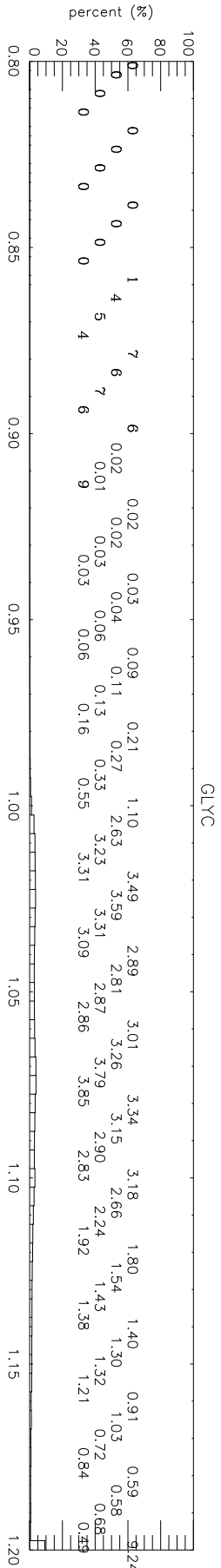
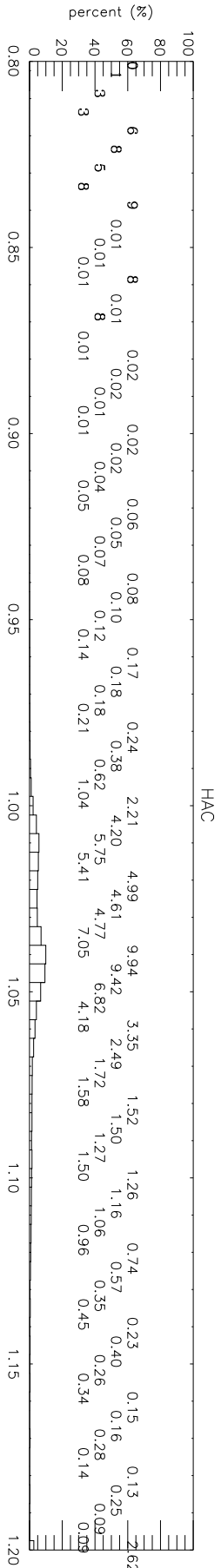
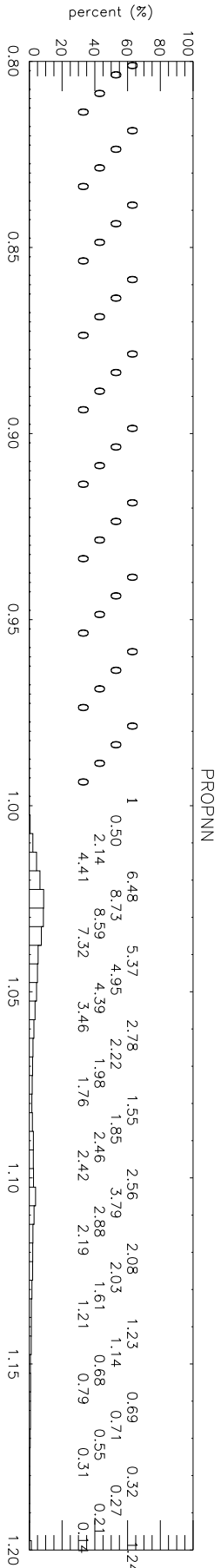
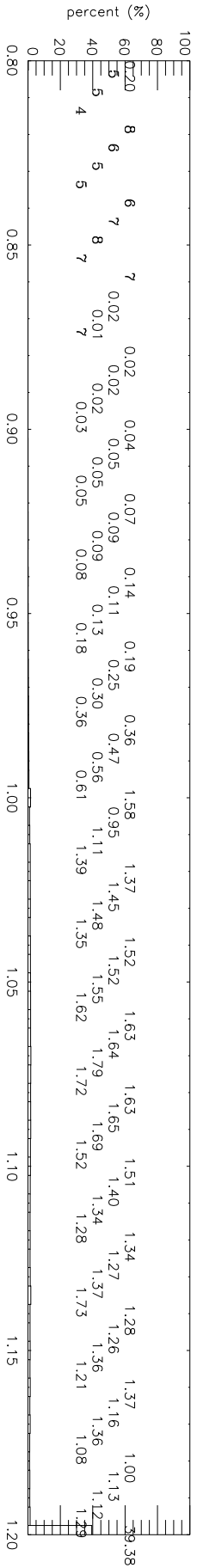
BrNO3



ctm.bpch.v9-02j / ctm.bpch.v9-02i



ctm.bpch.v9-02j / ctm.bpch.v9-02i



ctm.bpch.v9-02j / ctm.bpch.v9-02i

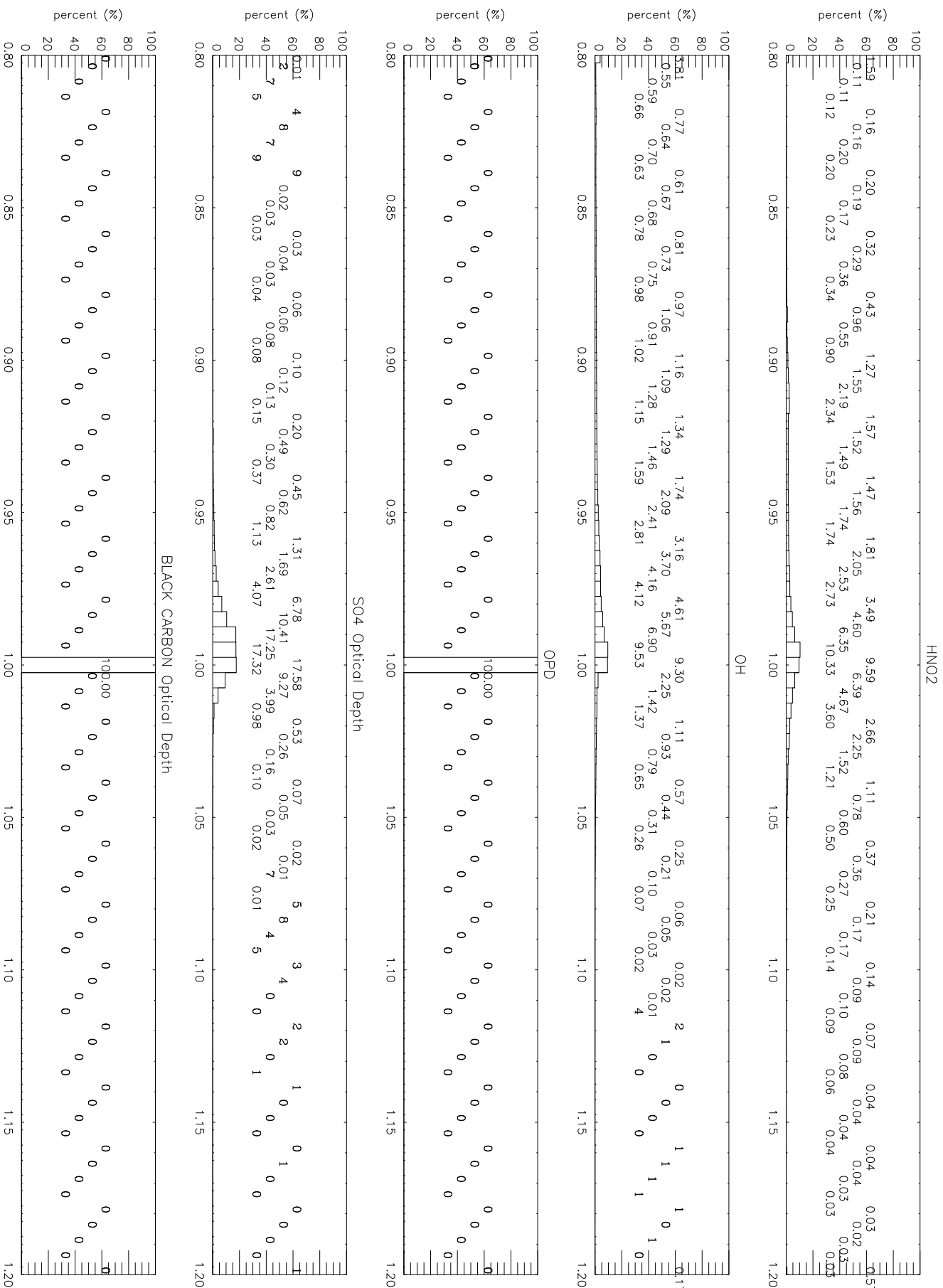
Figure 1 is a histogram showing the distribution of the number of non-zero elements in the sparse matrix. The x-axis represents the number of non-zero elements, ranging from 0.80 to 1.20. The y-axis represents the percentage of matrices, ranging from 0 to 100. The distribution is unimodal and centered around 1.00, with a peak at 1.00 (10.91%).

Number of non-zero elements	Percent (%)
0.80	0.21
0.81	0.35
0.82	0.46
0.83	0.23
0.84	0.33
0.85	0.27
0.86	0.37
0.87	0.55
0.88	0.28
0.89	0.65
0.90	0.82
0.91	1.06
0.92	1.24
0.93	1.67
0.94	1.95
0.95	2.34
0.96	2.51
0.97	2.85
0.98	3.63
0.99	6.92
1.00	10.91
1.01	12.04
1.02	3.66
1.03	0.87
1.04	0.04
1.05	0.01
1.06	0
1.07	0
1.08	0
1.09	0
1.10	0
1.11	0
1.12	0
1.13	0
1.14	0
1.15	0
1.16	0
1.17	0
1.18	0
1.19	0
1.20	0

[illegible]

Number of non-zero elements (x-axis)	Percent (%) (y-axis)
0.80	0.15
0.85	0.17
0.90	0.21
0.95	0.28
1.00	0.63
1.05	0.90
1.10	1.00
1.15	1.28
1.20	1.25
1.25	1.54
1.30	1.93
1.35	2.40
1.40	7.44
1.45	5.22
1.50	12.99
1.55	4.23
1.60	3.36
1.65	2.40
1.70	0.98
1.75	0.75
1.80	0.58
1.85	0.38
1.90	0.35
1.95	0.25
2.00	0.09
2.05	0.07
2.10	0.06
2.15	0.03
2.20	0.03
2.25	0.02
2.30	0.01
2.35	0.01
2.40	0.02

GEOS-Chem v9-02j Frequency Distribution
ctm.bpch.v9-02j / ctm.bpch.v9-02i



GEOS-Chem v9-02j Frequency Distribution
ctm.bpch.v9-02j / ctm.bpch.v9-02i

