1_IMS_Plots.doc

- Summary **preliminary TOF** data obtained with the IMS prototype.
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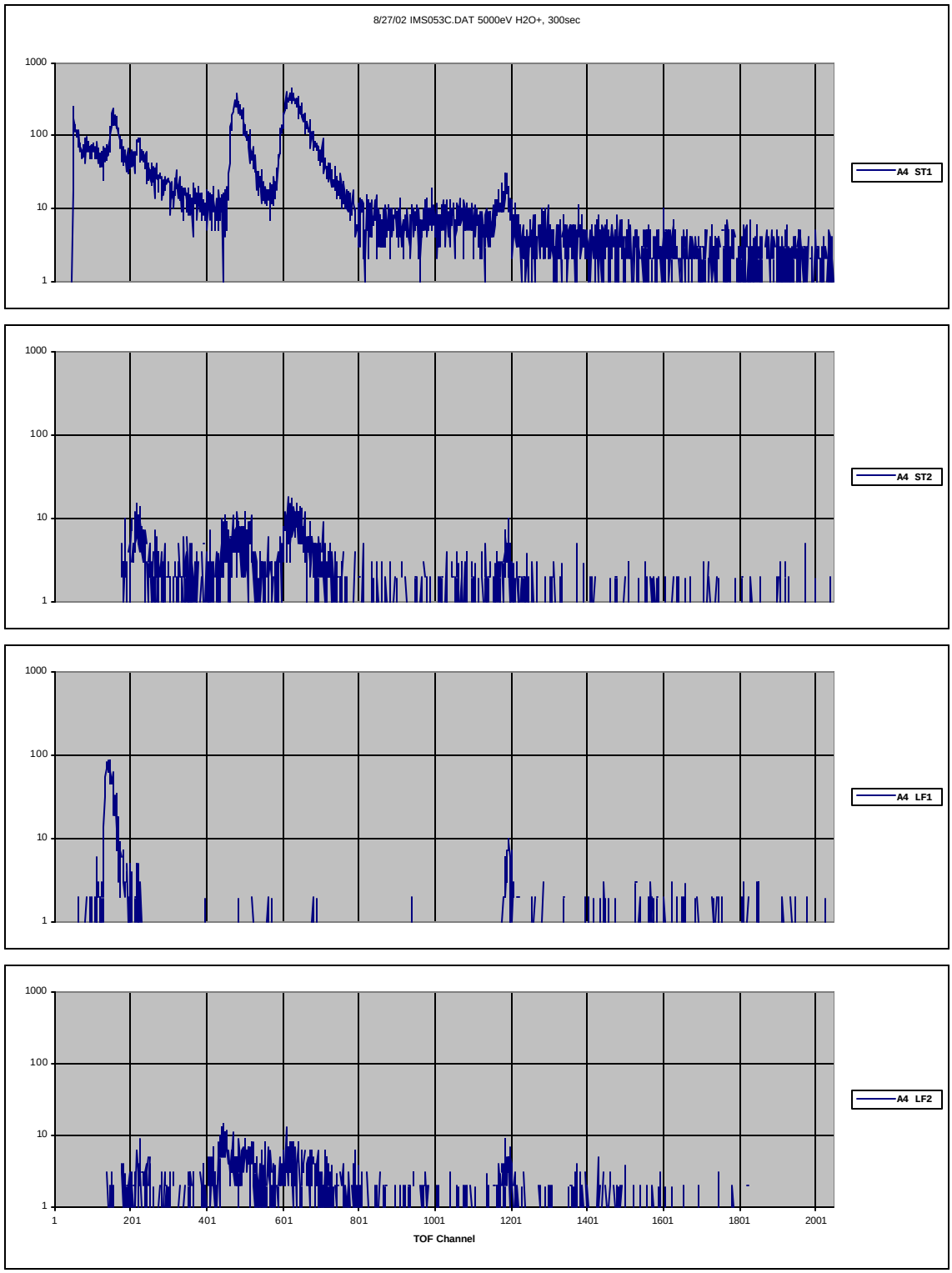
Note if you have downloaded and are viewing the *.doc file with e.g. MS Office, then you can manipulate the plots as follows:-

double click of a plot you want to inspect/change
double click on the y-axis, this will pull up the “Format Axis” Excel Menu.
Make changes (e.g. in scale sub menu, change from Logarithmic to Linear Scale etc)
Hit OK when done.

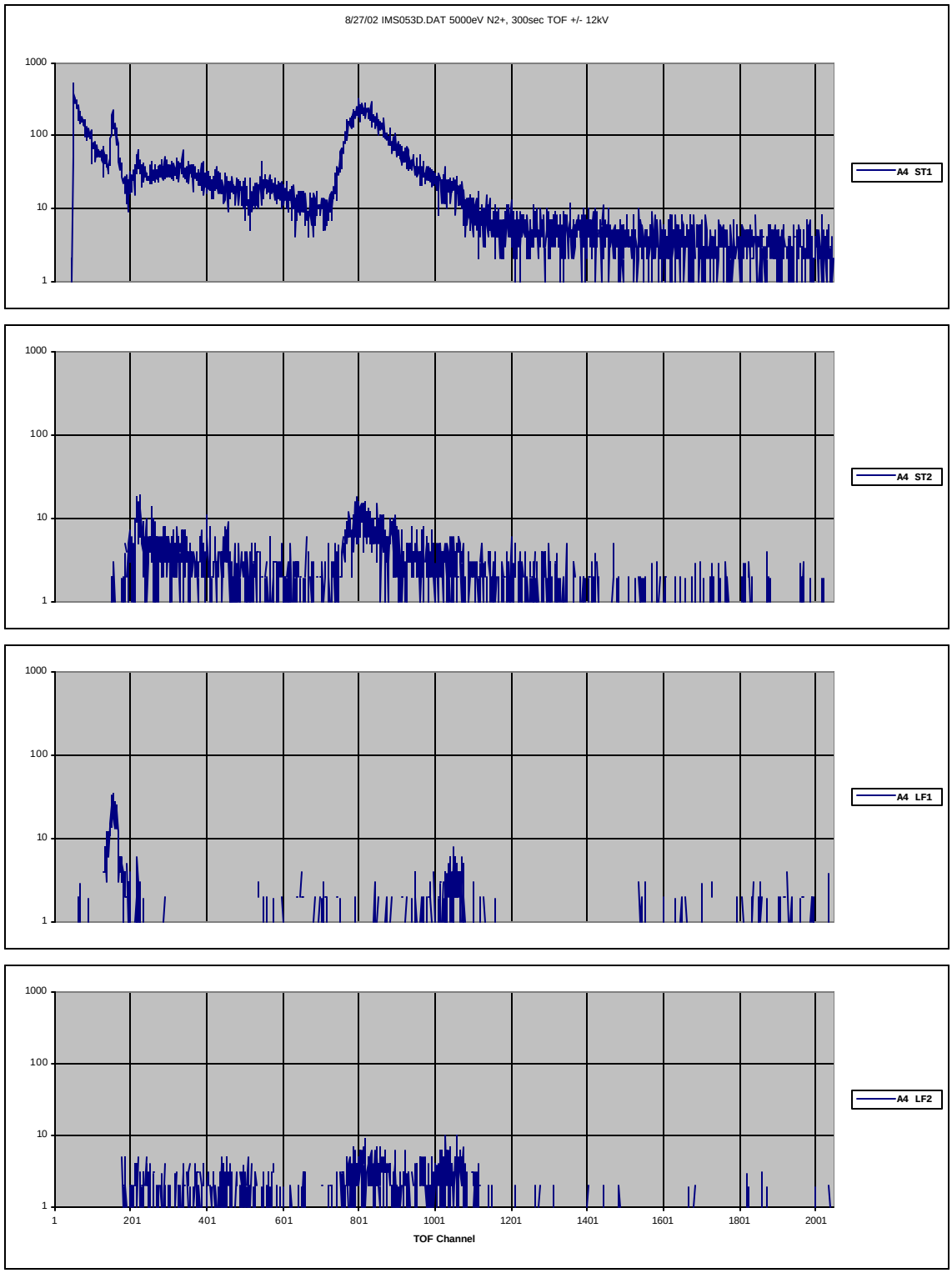
Each page here has 4 TOF plots, ST Singles, ST Doubles, LEF Singles, LEF Doubles

File/Plot	Egy (eV)	Species	TOF	Thr	Anode	Time	Intensity
IMS053C.DAT	5000	H2O+	12.00kV	4,4	4	300	
IMS053D.DAT	5000	N2+	12.00kV	4,4	4	300	
IMS053E.DAT	5000	O2+	12.00kV	4,4	4	300	
IMS053F.DAT	5000	H2O+	14.56kV	4,4	4	300	
IMS053G.DAT	5000	N2+	14.56kV	4,4	4	300	
IMS053H.DAT	5000	O2+	14.56kV	4,4	4	300	
IMS054A.DAT	5000	O2+	14.56kV	4,4	4	300	High
IMS054C.DAT	5000	O2+	14.56kV	4,4	4	300	Medium
IMS054D.DAT	5000	O2+	14.56kV	4,4	4	300	Low
IMS054M.DAT	500	O2+	14.56kV	4,4	0	300	
IMS054N.DAT	5000	O2+	14.56kV	4,4	4	1860	High

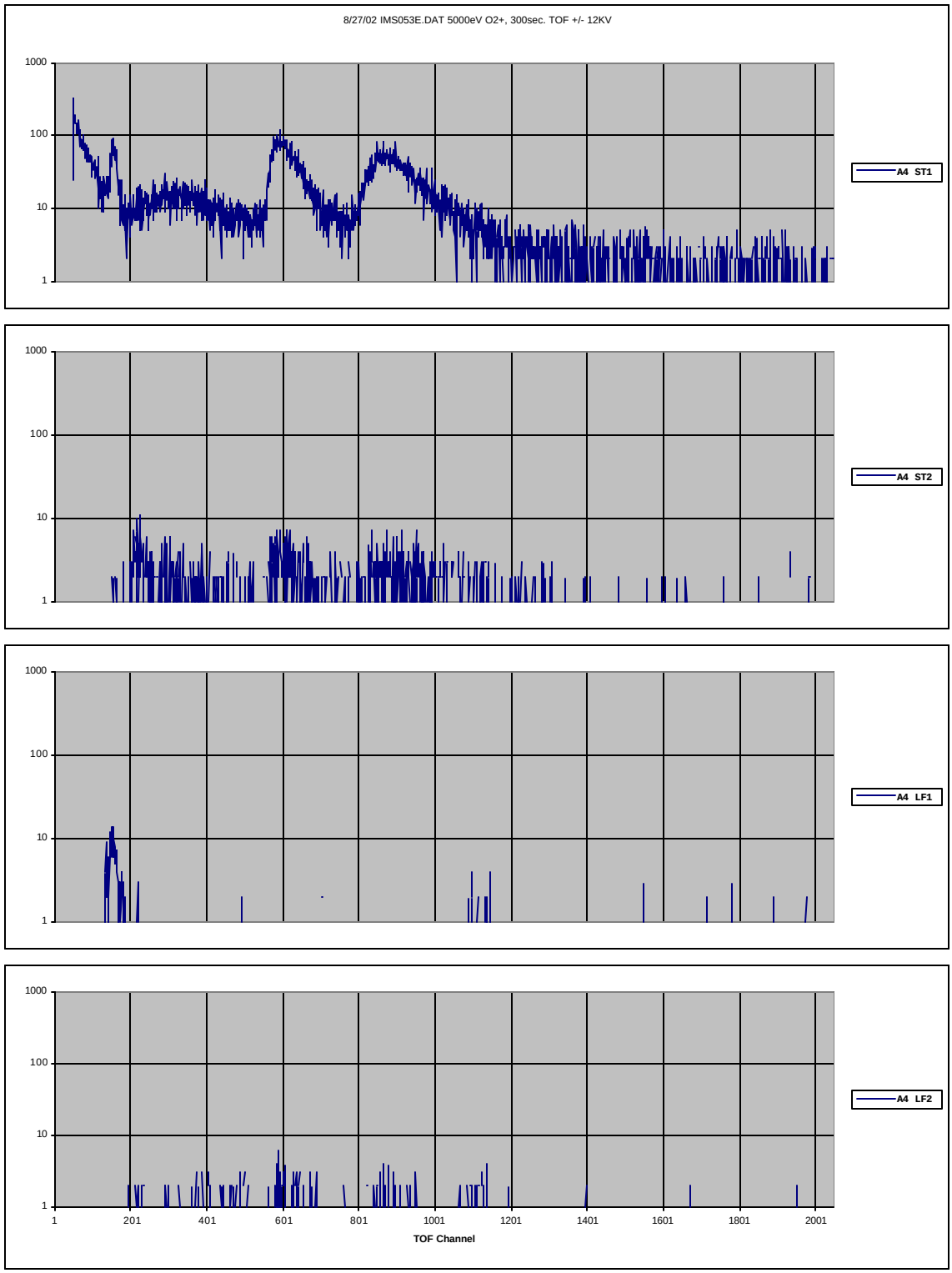
8/27/02, IMS053C.DAT, 5000eV, H2O+ Beam, background gas, TOF +/- 12kV
Anode 4, (~2184 Starts, 221 LEF Stops, 1253 ST Stops/Sec),
Time = 300 Secs. 58999 ST coincidences/300 sec, 2742 LEF coincidences/300 sec.



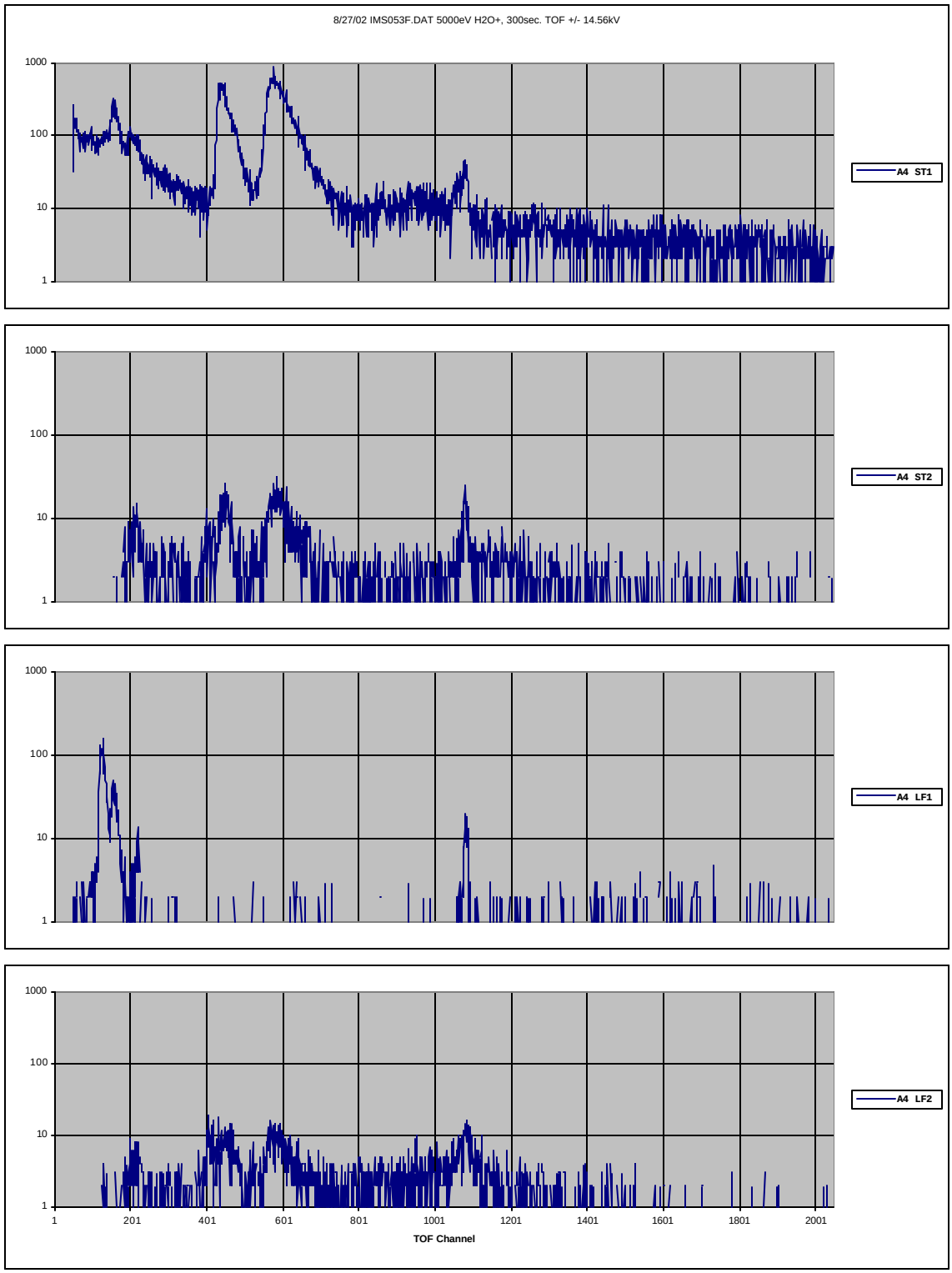
8/27/02, IMS053D.DAT, 5000eV, N2+ Beam, background gas. TOF +/- 12kV
Anode 4 (~2277 Starts, 189 LEF Stops, 1065 ST Stops/Sec),
Time = 300 Secs. 59963 ST coincidences/300 sec, 1639 LEF coincidences/300 sec.



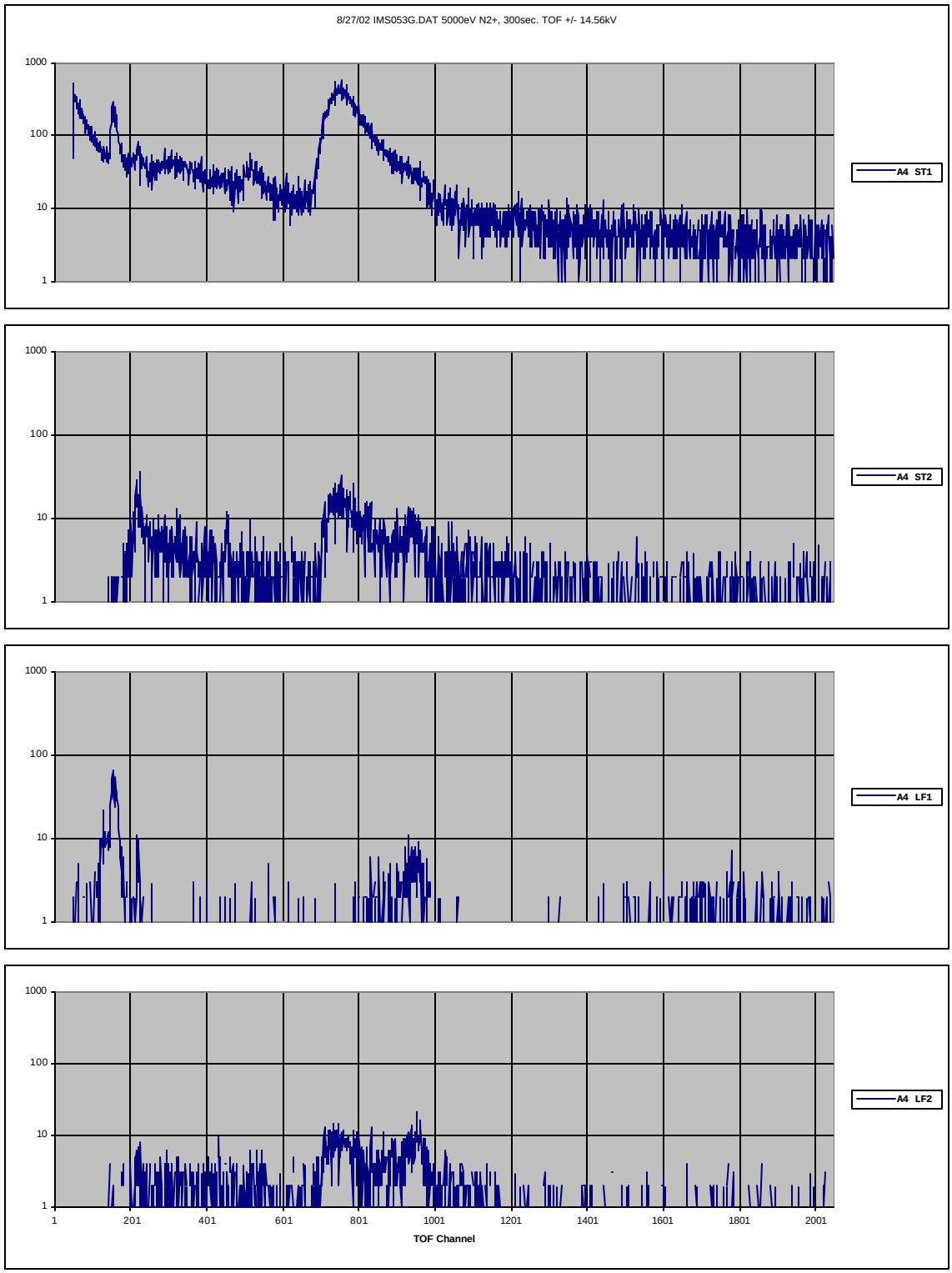
8/27/02, IMS053E.DAT, 5000eV, O2+ Beam, background gas. TOF +/- 12kV
Anode 4, (~837 Starts, 111 LEF Stops, 437 ST Stops/Sec),
Time = 300 Secs. 28532 ST coincidences/300 sec, 623 LEF coincidences/300 sec.



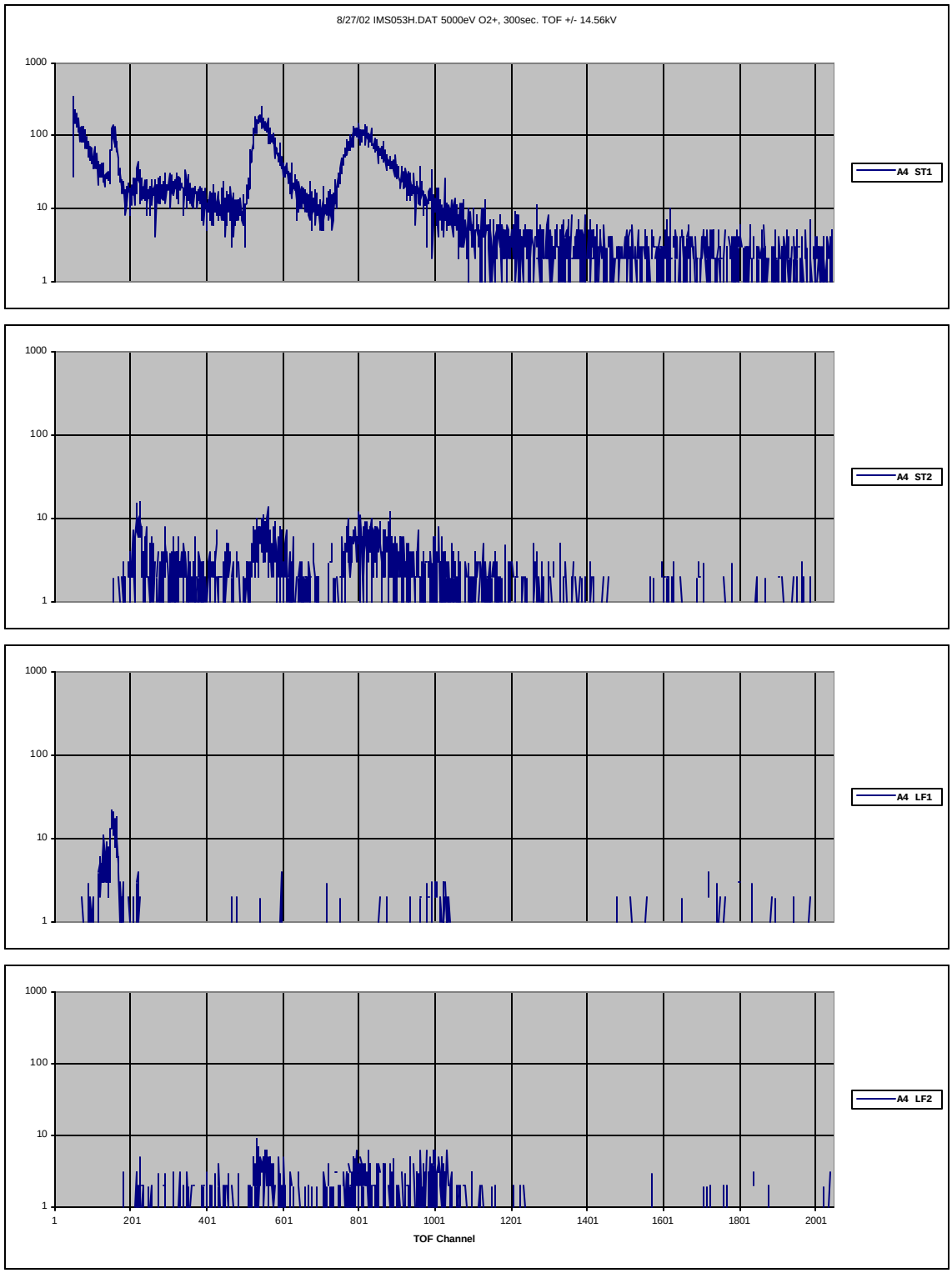
8/27/02, IMS053F.DAT, 5000eV, H2O+ Beam, background gas. TOF +/- 14.56kV
Anode 4, (~2294 Starts, 538 LEF Stops, 1572 ST Stops/Sec),
Time = 300 Secs. 84773 ST coincidences/300 sec, 4068 LEF coincidences/300 sec.



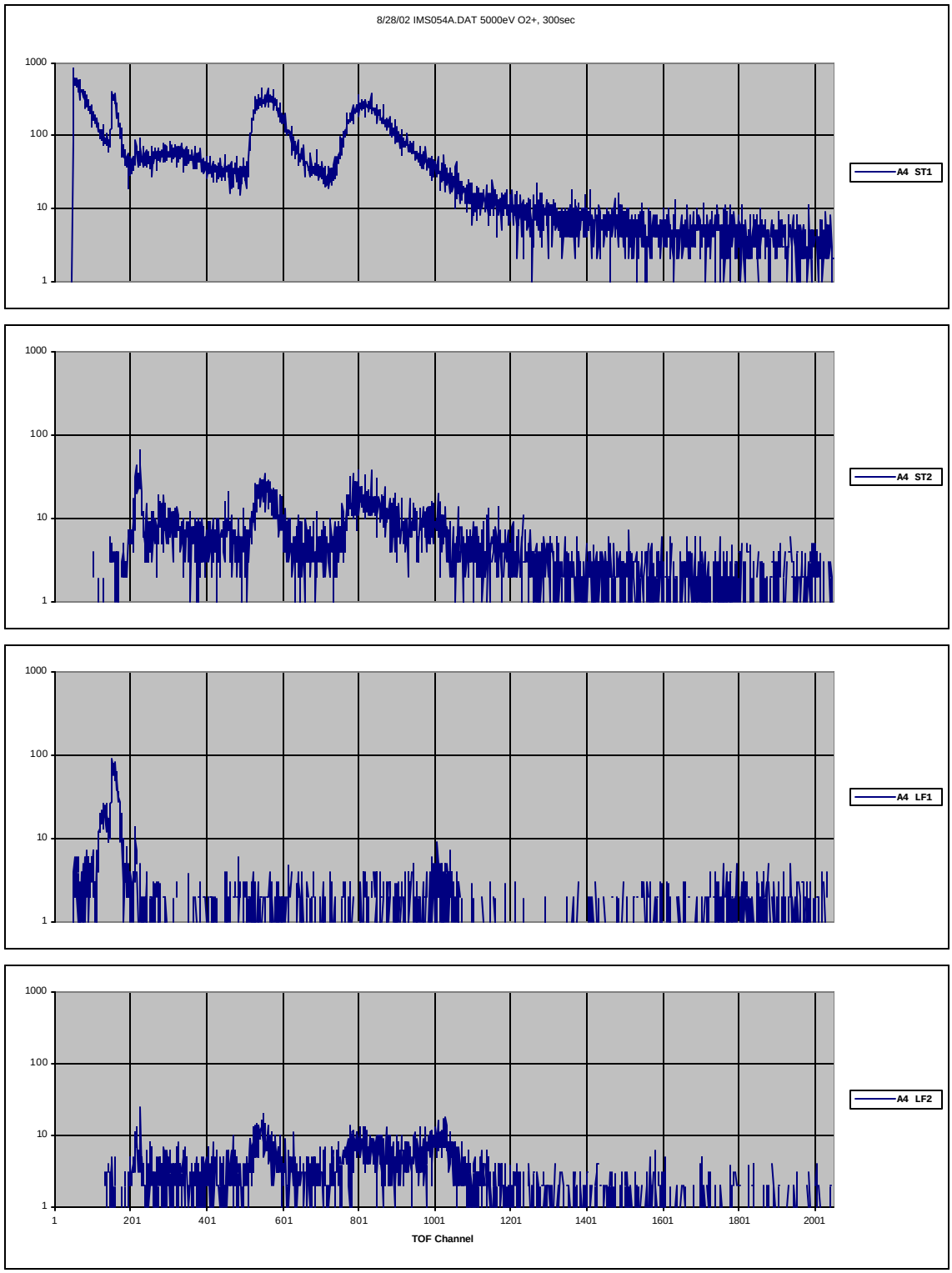
8/27/02, IMS053G.DAT, 5000eV, N2+ Beam, background gas. TOF +/- 14.56kV
Anode 4, (~2673 Starts, 515 LEF Stops, 1484 ST Stops/Sec),
Time = 300 Secs. 81652 ST coincidences/300 sec, 2660 LEF coincidences/300 sec.



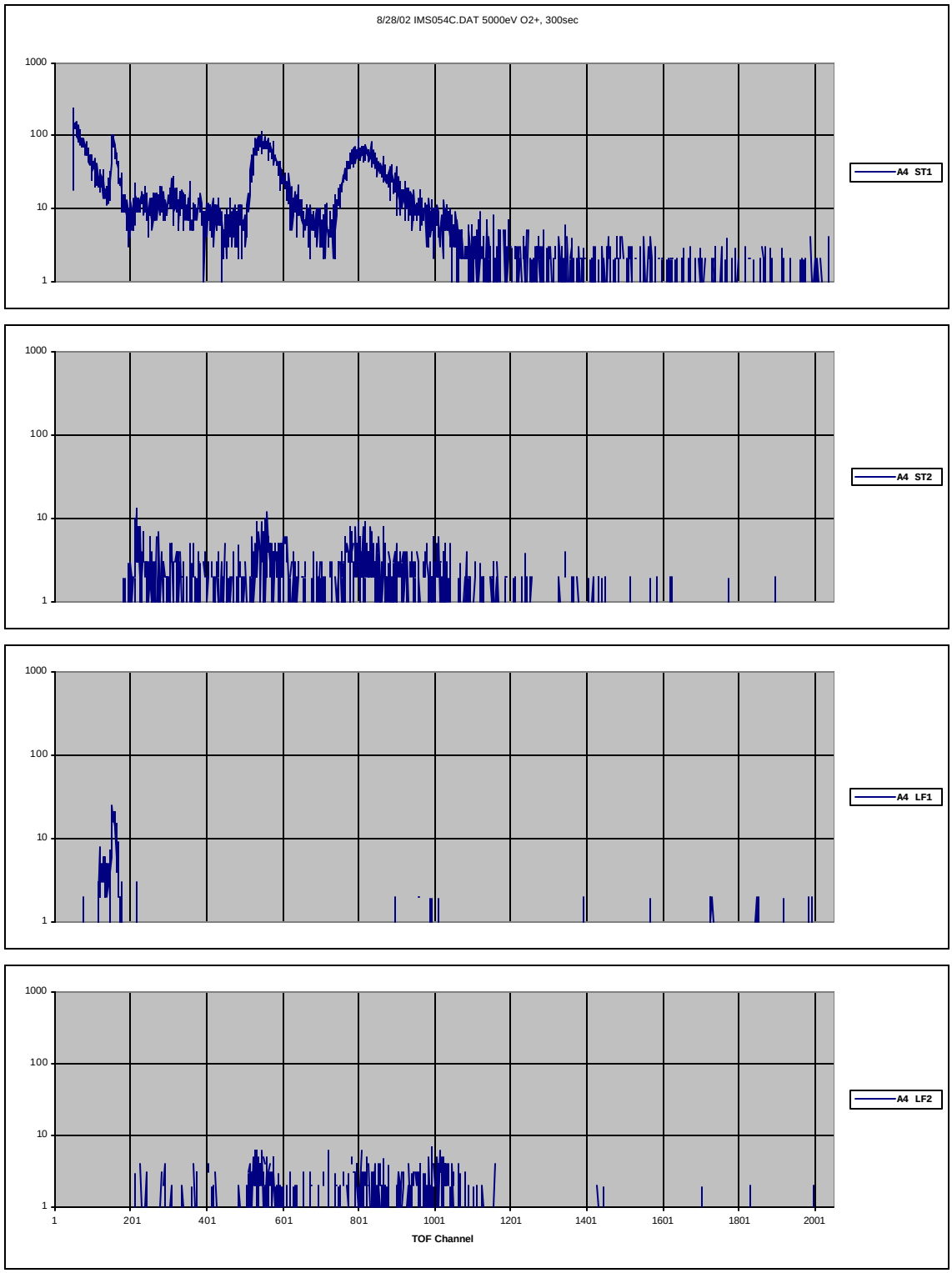
8/27/02, IMS053H.DAT, 5000eV, O2+ Beam, background gas. TOF +/- 14.56kV
Anode 4, (~1139 Starts, 296 LEF Stops, 703 ST Stops/Sec),
Time = 300 Secs. 42636 ST coincidences/300 sec, 1116 LEF coincidences/300 sec.



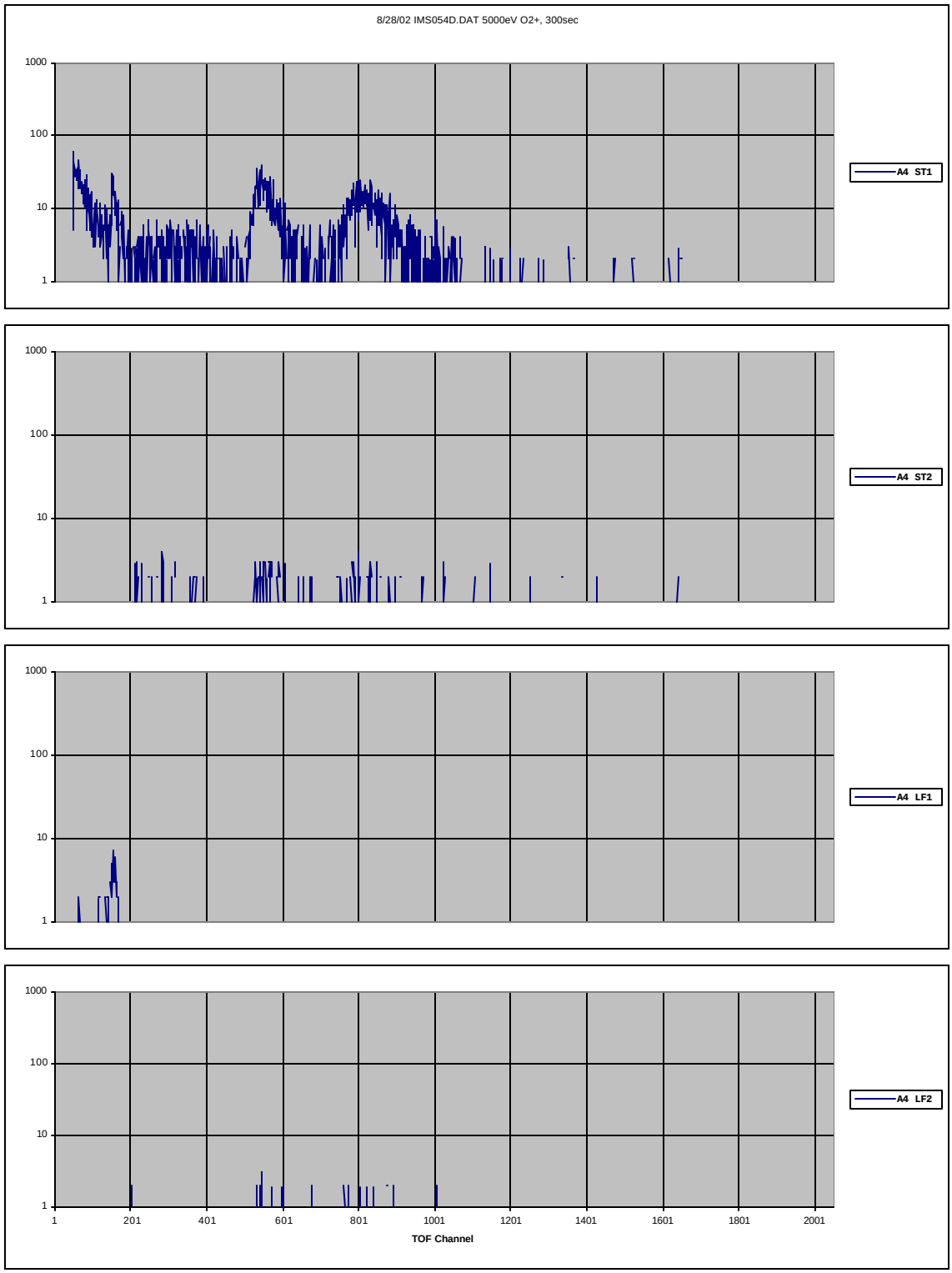
8/28/02, IMS054A.DAT, 5000eV, O2+ Beam, background gas. TOF +/- 14.56kV, High Rate Anode 4, (~2752 Starts, 1950 LEF Stops, 1950 ST Stops/Sec),
Time = 300 Secs. 122646 ST coincidences/300 sec, 4249 LEF coincidences/300 sec.



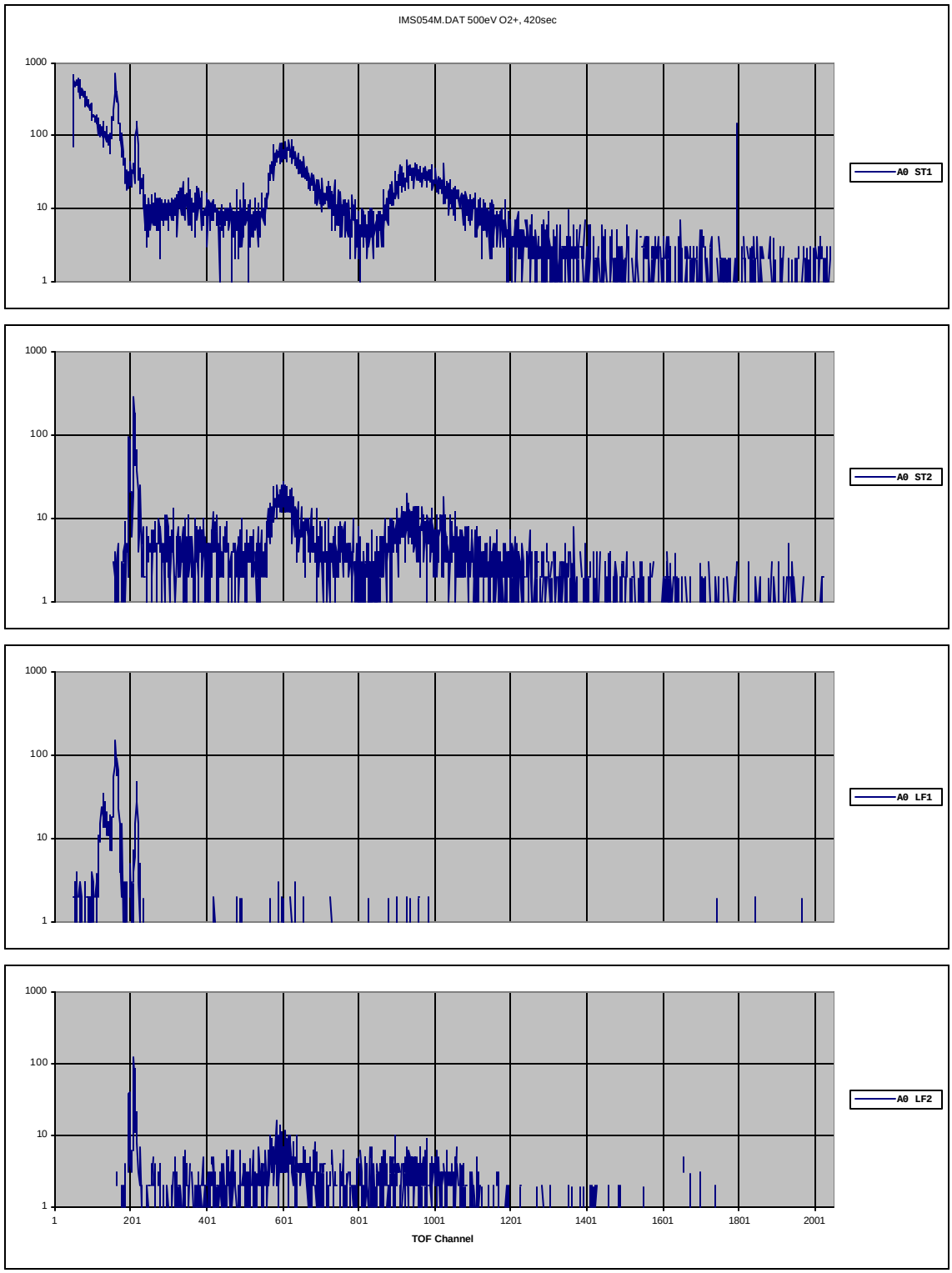
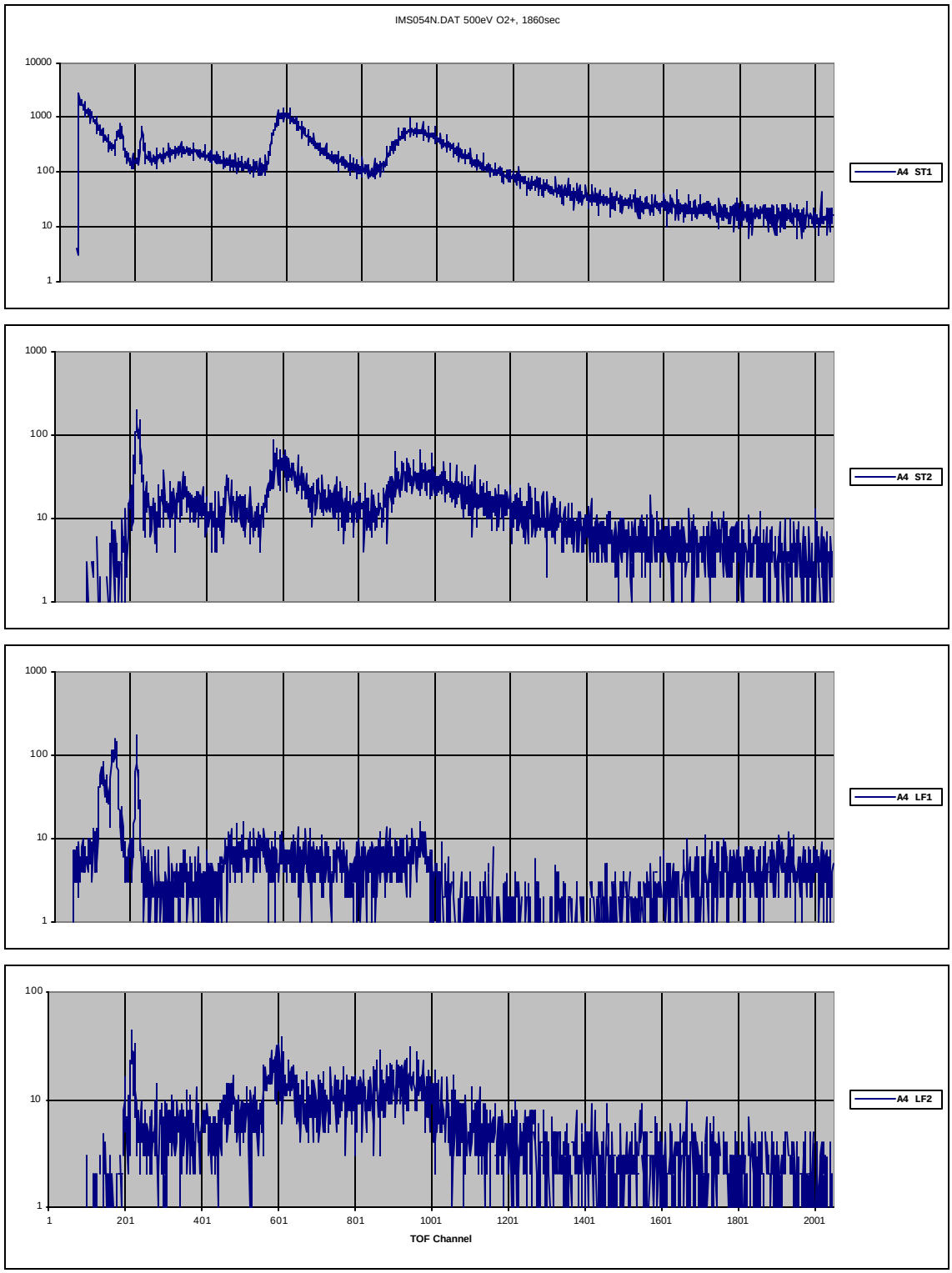
8/28/02, IMS054C.DAT, 5000eV, O2+ Beam, background gas. TOF +/- 14.56kV, Medium Rate Anode 4, (~705 Starts, 519 LEF Stops, 471 ST Stops/Sec),
Time = 300 Secs. 26110 ST coincidences/300 sec, 33 LEF coincidences/300 sec.



8/28/02, IMS054D.DAT, 5000eV, O2+ Beam, background gas. TOF +/- 14.56kV, LOW Rate
Anode 4, (~146 Starts, 310 LEF Stops, 189 ST Stops/Sec),
Time = 300 Secs. 6181 ST coincidences/300 sec, 200 LEF coincidences/300 sec.



8/28/02, IMS054M.DAT, 500eV, O2+ Beam, background gas, TOF +/- 14.56kV
Anode 0, (~2150 Starts, 450 LEF Stops, 1060 ST Stops/Sec),
Time = 420 Secs. 53167 ST coincidences/420 sec, 2721 LEF coincidences/420 sec.



8/28/02, IMS054N.DAT, 500eV, O2+ Beam, background gas. TOF +/- 14.56kV
Anode 4, (~1620 Starts, 950 LEF Stops, 1005 ST Stops/Sec),
Time = 1860 Secs. 416267 ST coincidences/1860 sec, 11839 LEF coincidences/1860 sec.