

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 4285 - L2 Version _e1
Chandra X-Ray Center

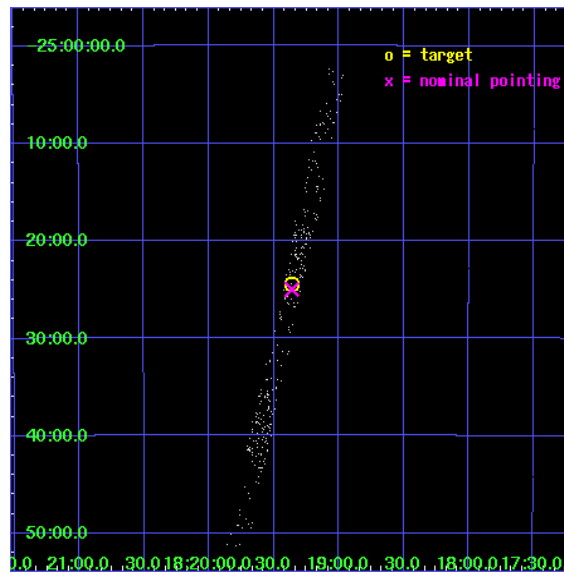
L2 Processing Date : Sep 30 2006

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1 Front

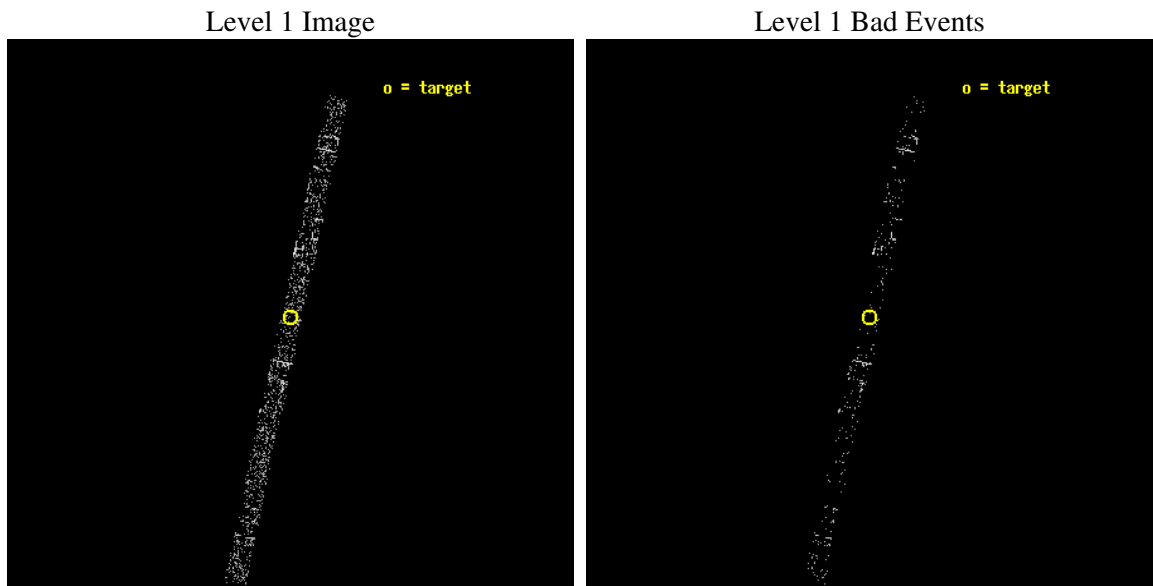
seq_num	400315
obs_id	4285
title	V4641 SGR DURING OUTBURST: FAST JETS & VARIABLE CORE
observer	DR. MICHAEL RUPEN
object	V4641SGR
dtcycle	0
cycle	P
ra_targ	274.84
dec_targ	-25.407111
ra_nom	274.84036537682
dec_nom	-25.416795637706
roll_nom	282.15679738191
revision	2
ontime	373.4352875948
livedtime	79.189229160849
ontime4	373.47632759809
ontime5	373.3942475915
ontime6	373.37485313416
ontime7	373.4352875948
ontime8	373.37485313416
ontime9	373.37485313416
l2events	302



2 OBI Primary

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 4

Chip 5

Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.3
date	2006-09-30T06:42:22
revision	2

sched_exp_time	5000.000000
ontime	376.31551969051
ontime4	376.31551969051
ontime5	376.31551969051
ontime6	376.31551969051
ontime7	376.31551969051
ontime8	376.31551969051
ontime9	376.31551969051
l1events	2244

2.1.4 Events

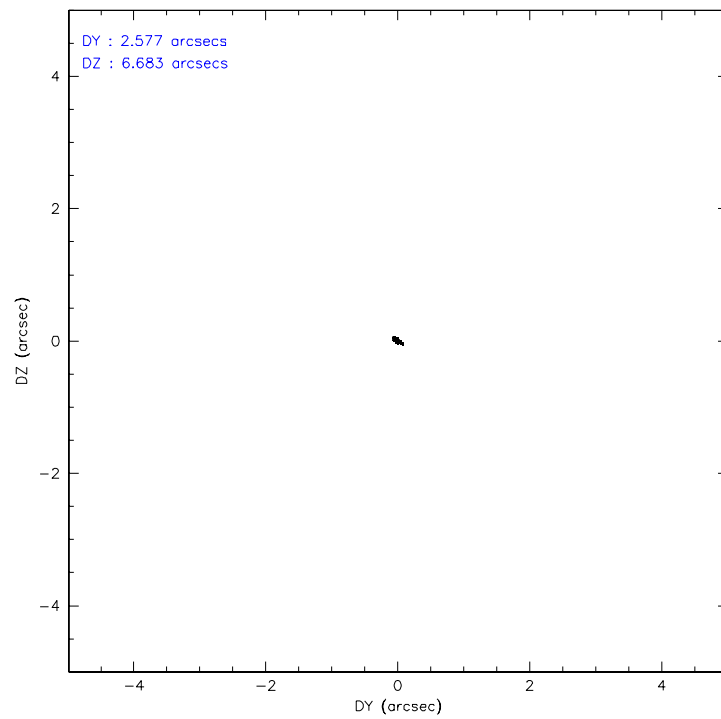
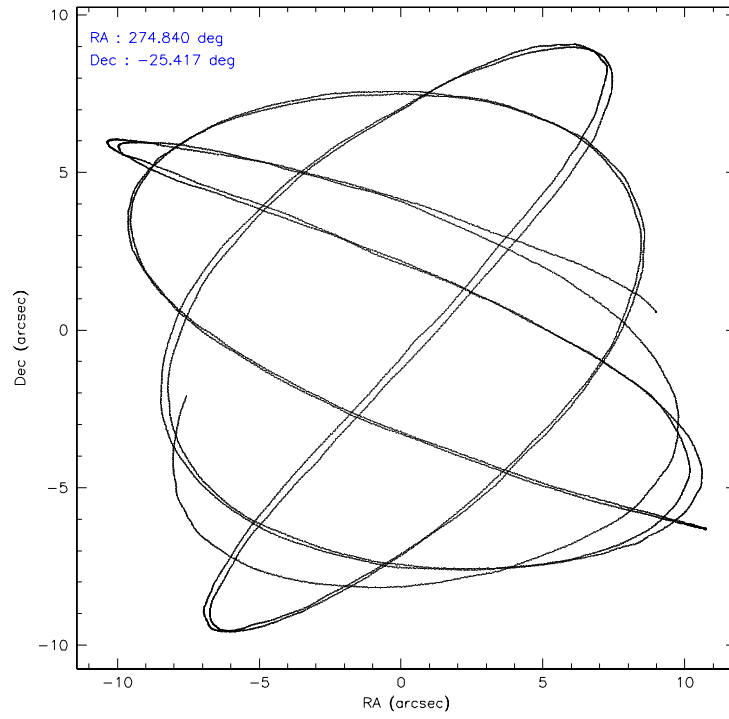
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	338	312	459	281	480	374
rejected events	313	205	419	188	417	337
rejected %	92%	65%	91%	66%	86%	90%

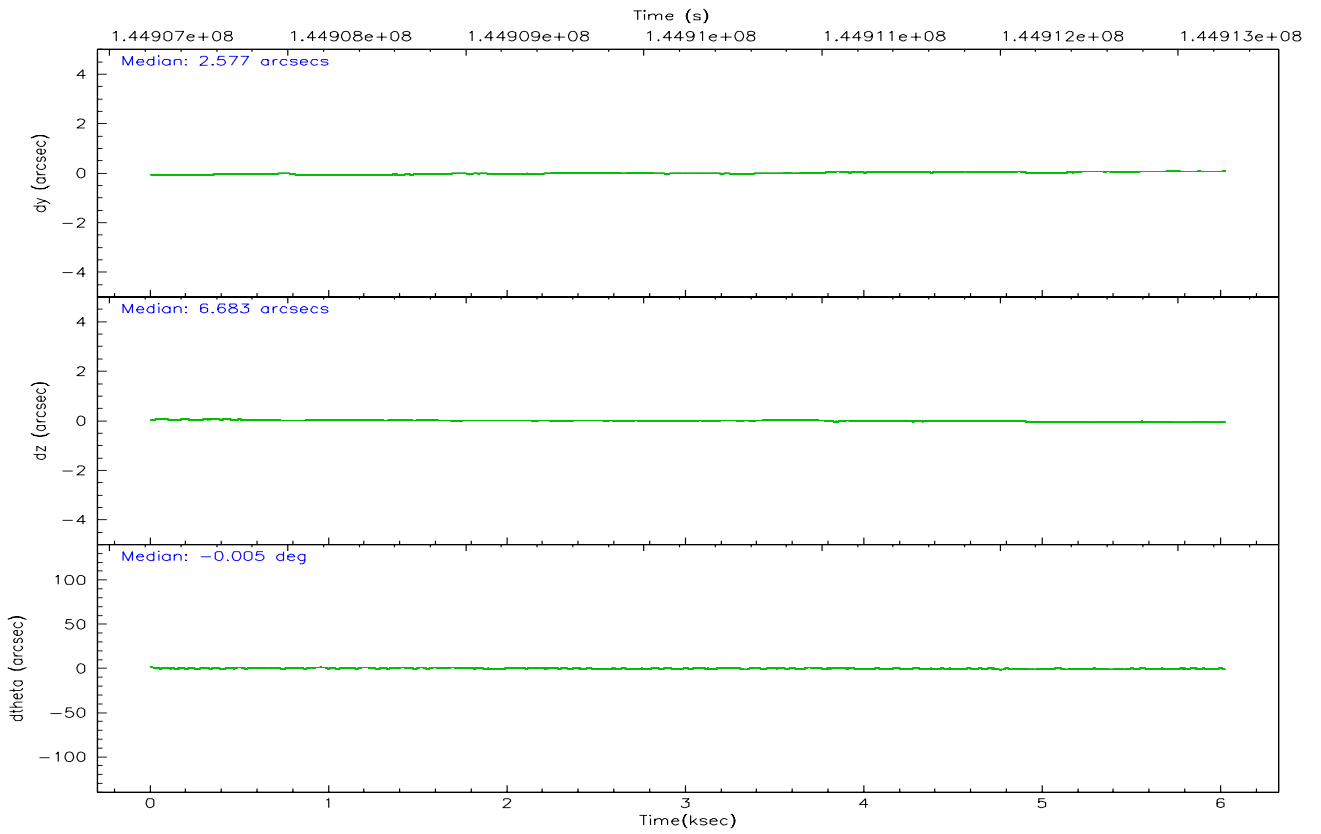
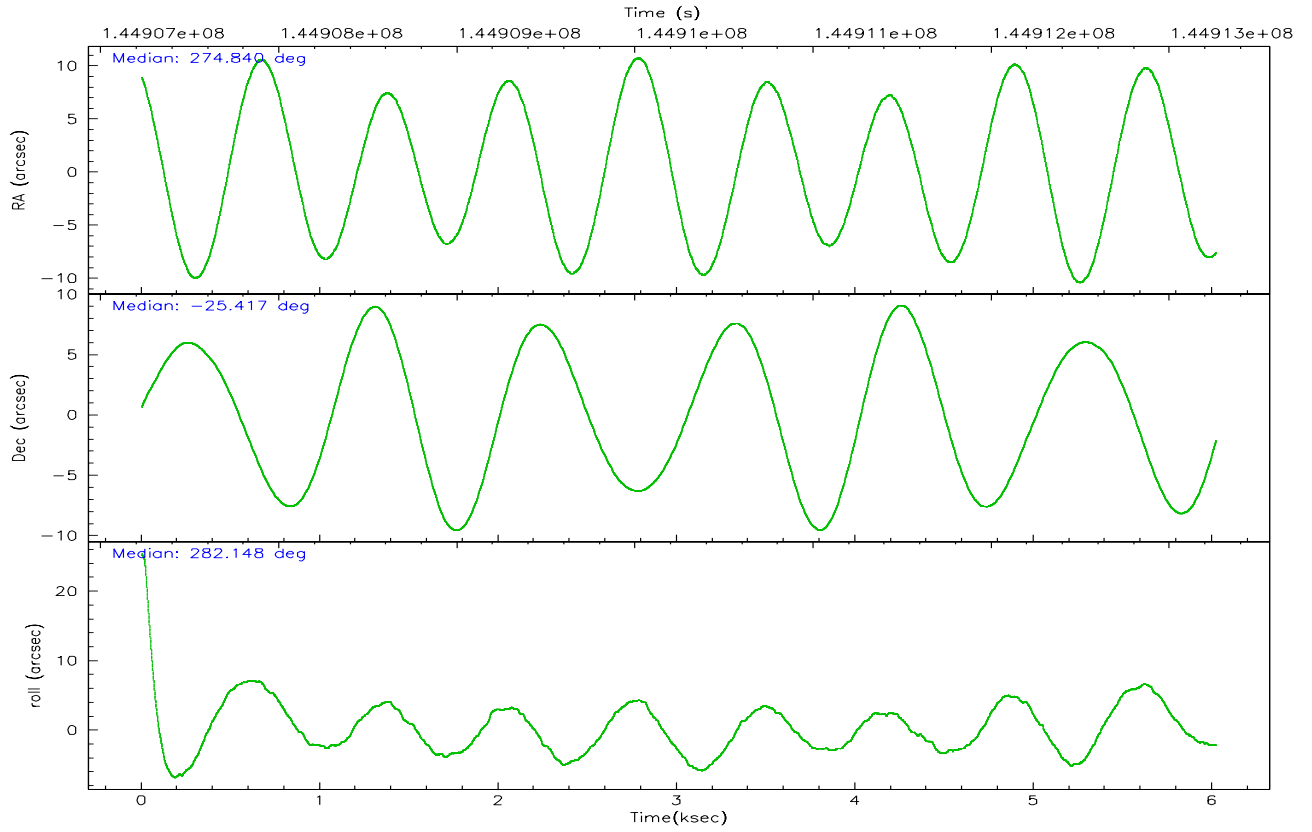
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	9	6	8	13	19	16
	2%	1%	1%	4%	3%	4%
grade 1 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	4	33	12	25	12	5
	1%	10%	2%	8%	2%	1%
grade 3 events	2	6	7	7	6	5
	0%	1%	1%	2%	1%	1%
grade 4 events	4	10	6	14	9	2
	1%	3%	1%	4%	1%	0%
grade 5 events	3	16	12	21	18	9
	0%	5%	2%	7%	3%	2%
grade 6 events	6	52	7	35	18	9
	1%	16%	1%	12%	3%	2%
grade 7 events	310	189	407	166	398	328
	91%	60%	88%	59%	82%	87%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	274.819853	274.8403653768181	Subarray requested	1/4	1/4
Pointing Dec	-25.396841	-25.41679563770573	Subarray start row	0	385
Pointing Roll	281.991357	282.1567973819131	Subarray row count	1024	256
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	Y	Y
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.200000	0.3
SIM translation stage pos (mm)	-190.132523	-190.1400660498719	Secondary exposure time	0.000000	3.2
SIM translation stage offset (mm)	0	0.00754346686406393	Duty cycle	5	5
Observation start time	144908260.184000	144906880.29628			
Observation start date	2002-08-05T04:16:36	2002-08-05T03:54:40			
Observation end time	144913260.184000	144914877.34661			
Observation end date	2002-08-05T05:39:56	2002-08-05T06:07:57			
Read mode	TIMED	TIMED			

2.3 Aspect



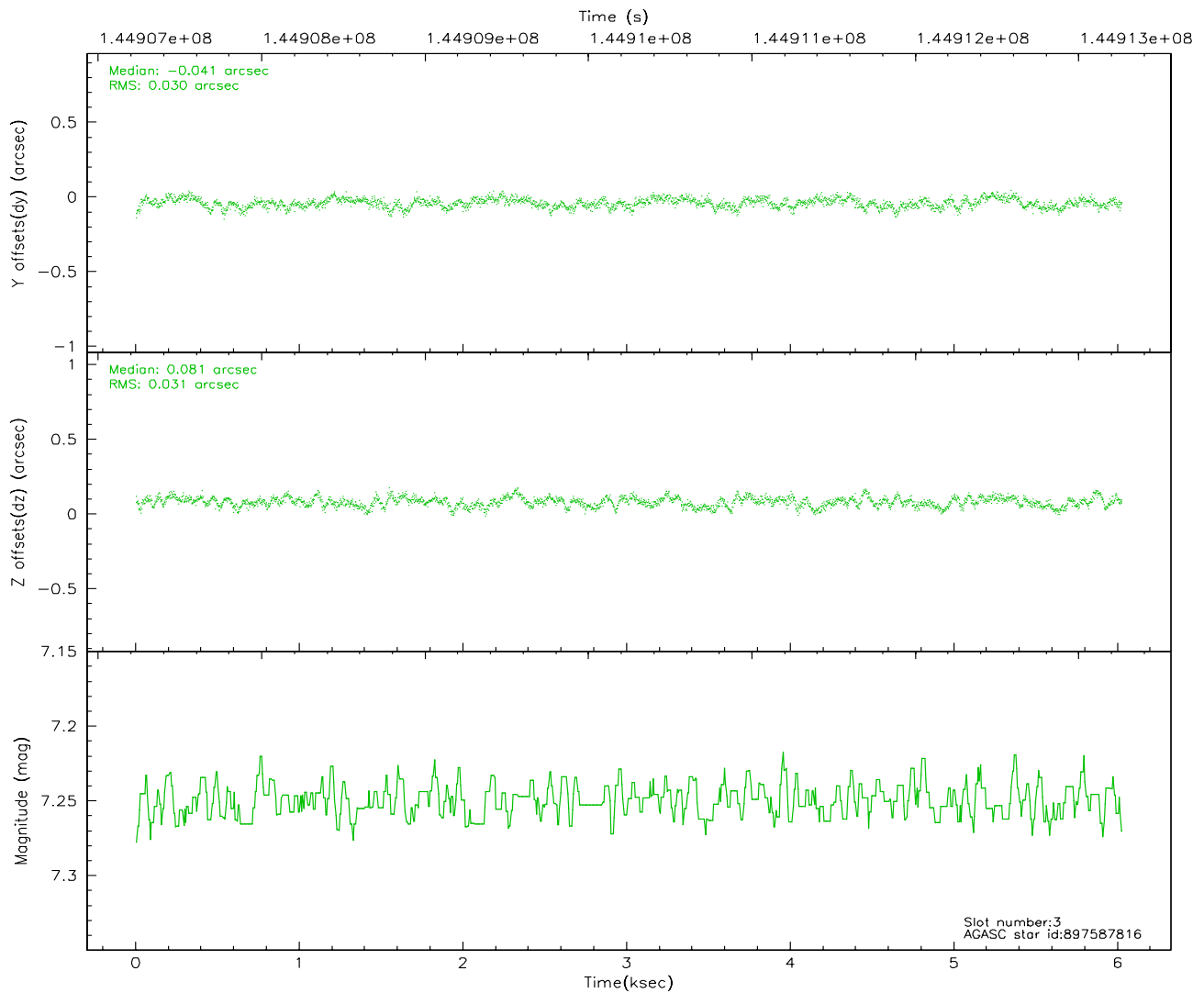
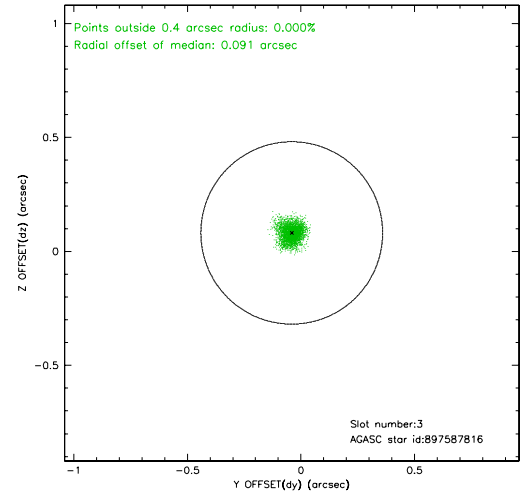
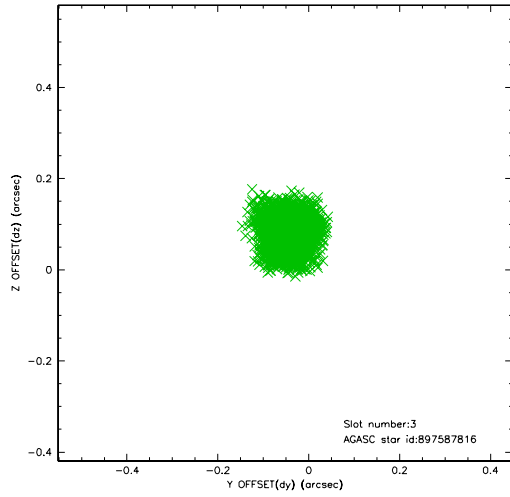


Slot Statistics

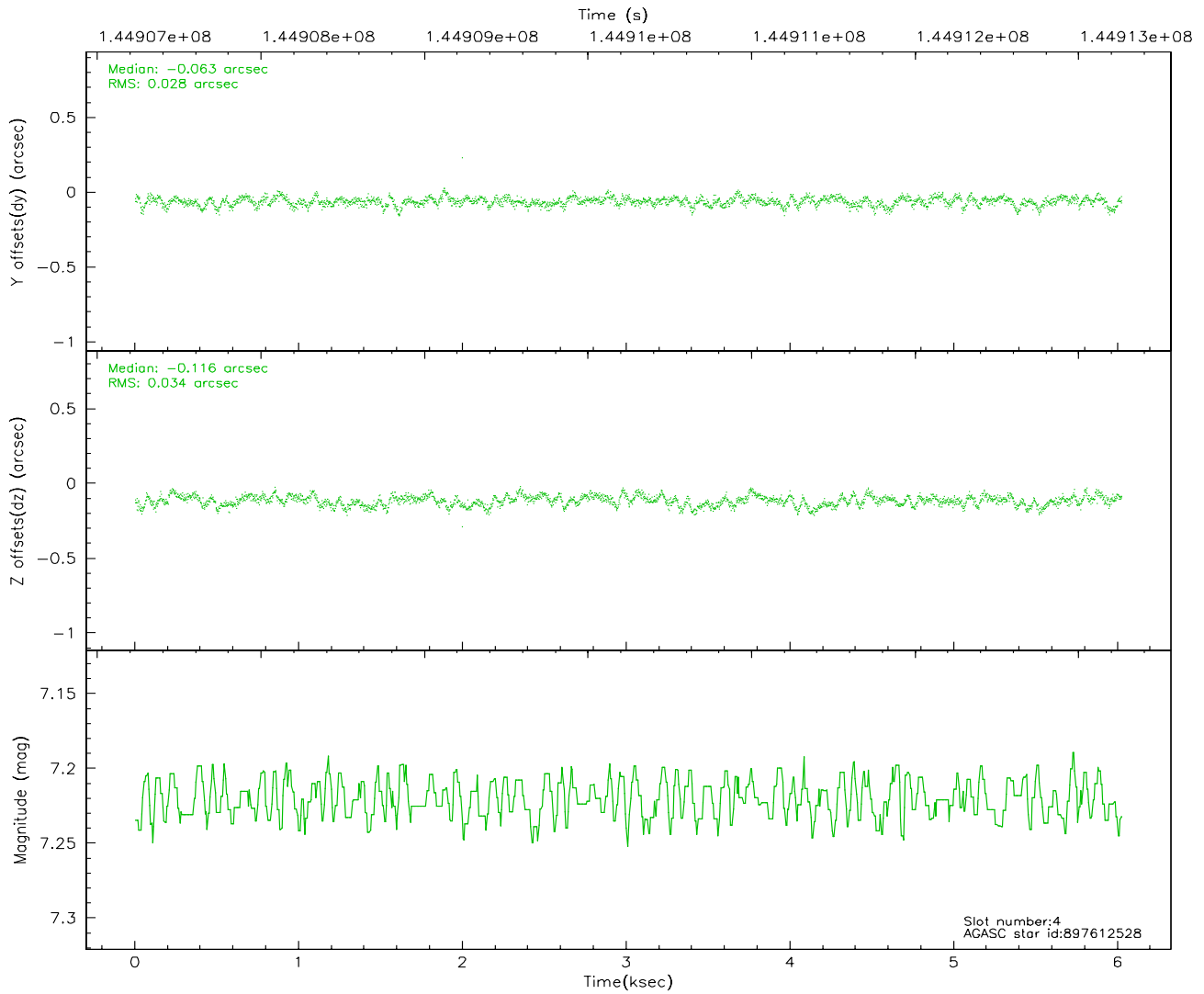
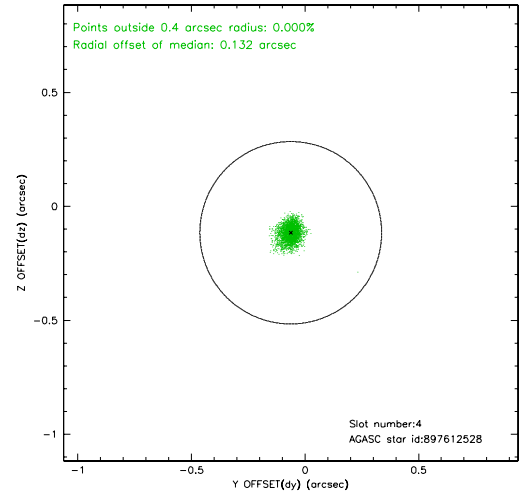
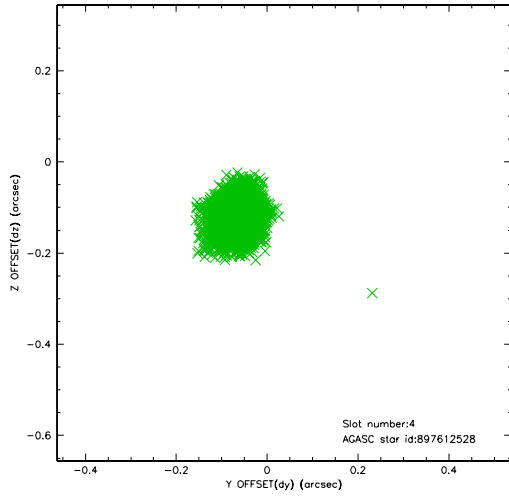
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	1469	-0.016	0.029	0.008	0.014	0.000000	0.000000	-755.21	-1727.82
1	FID	ACIS-S-4	7.21	1469	-0.062	0.000	0.005	0.009	0.000000	0.000000	2157.56	179.65
2	FID	ACIS-S-5	7.24	1470	0.047	-0.020	0.007	0.010	0.000000	0.000000	-1806.74	174.38
3	GUIDE	897587816	7.25	2938	-0.041	0.081	0.047	0.075	274.674880	-25.935265	1798.20	-861.24
4	GUIDE	897612528	7.22	2938	-0.063	-0.116	0.047	0.075	274.400257	-25.341874	-475.03	-1294.90
5	GUIDE	897588456	9.11	2933	0.034	0.054	0.082	0.130	275.492900	-25.751784	1707.70	1868.30
6	GUIDE	897607632	9.05	2938	0.067	0.016	0.105	0.164	275.528210	-25.239953	-67.62	2373.26
7	GUIDE	897601280	9.71	2937	0.006	-0.028	0.109	0.179	274.221964	-25.156854	-1246.07	-1726.25

2.4 Star Slots

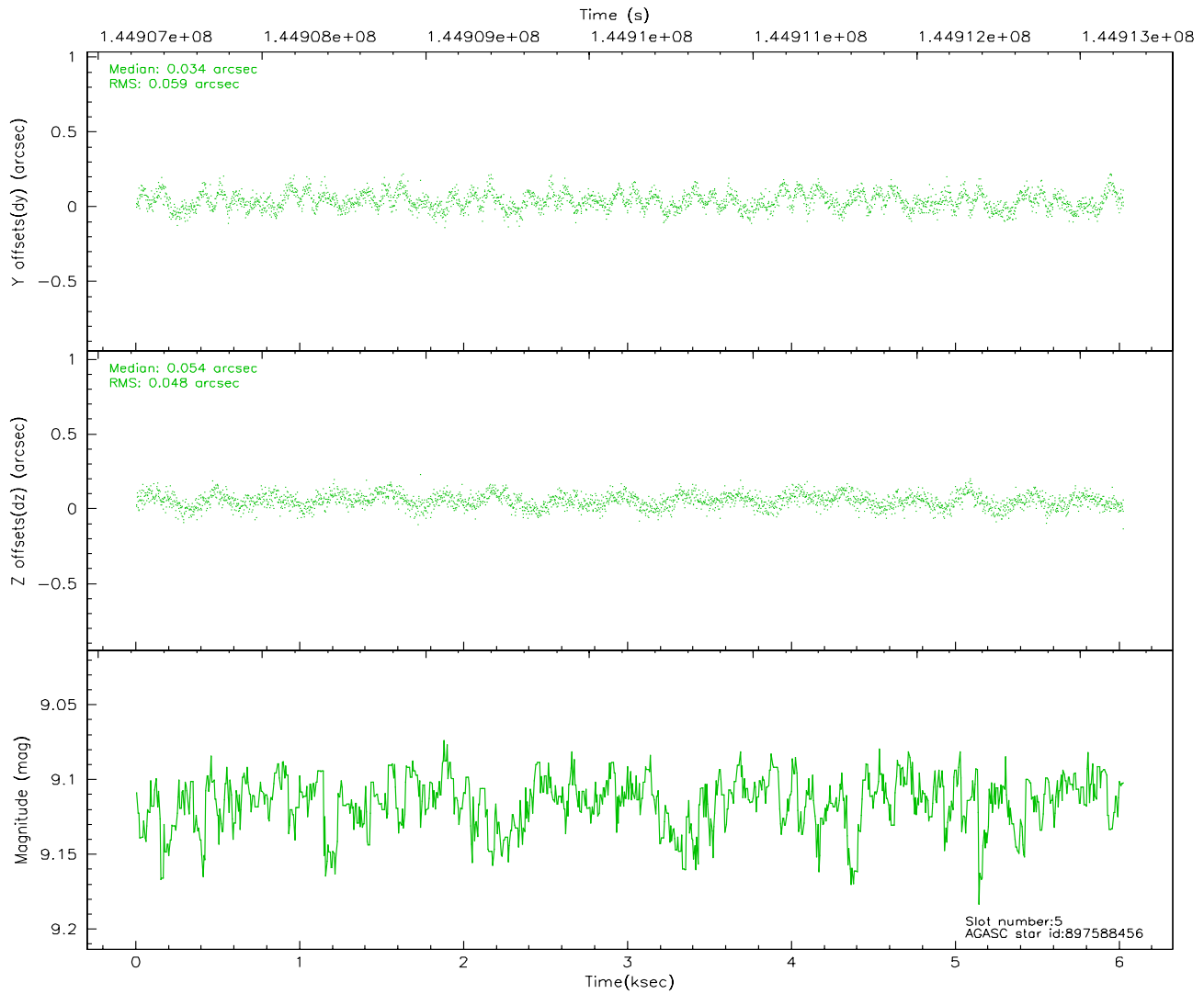
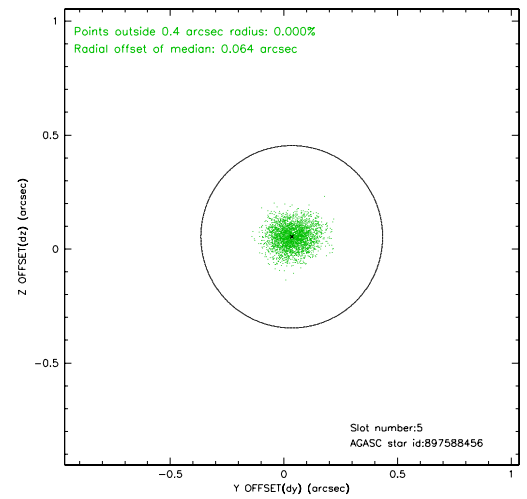
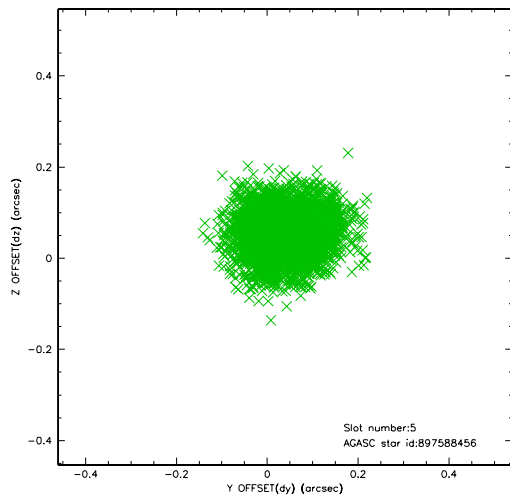
2.4.1 Slot 3



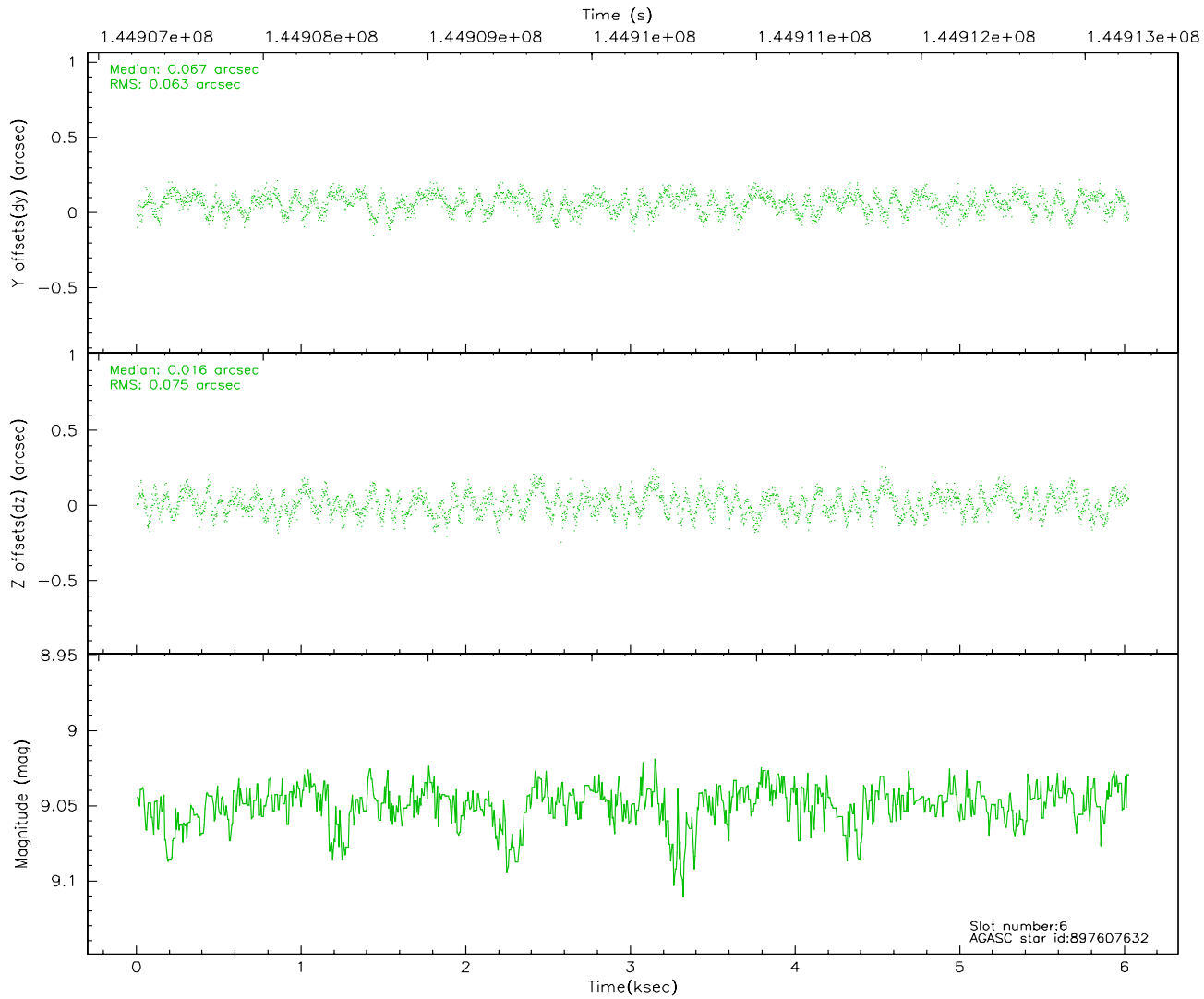
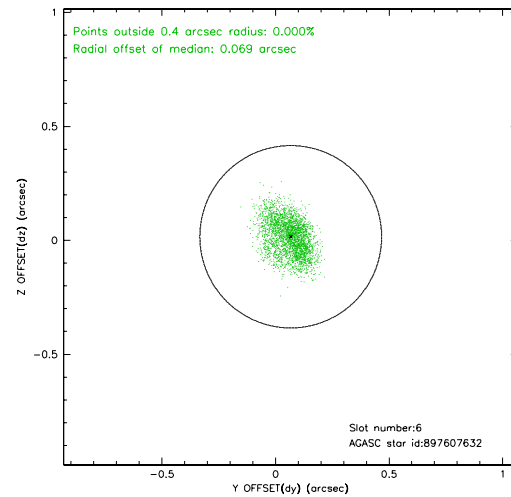
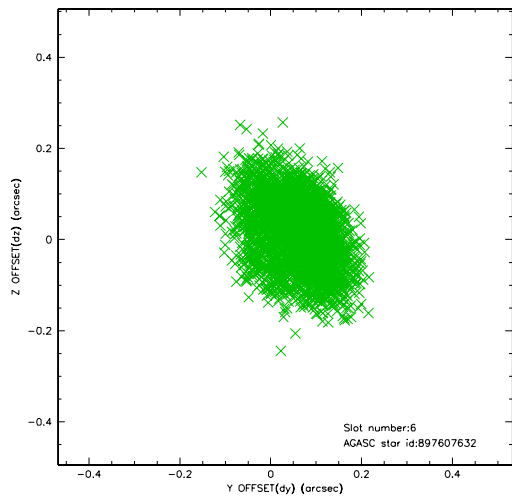
2.4.2 Slot 4



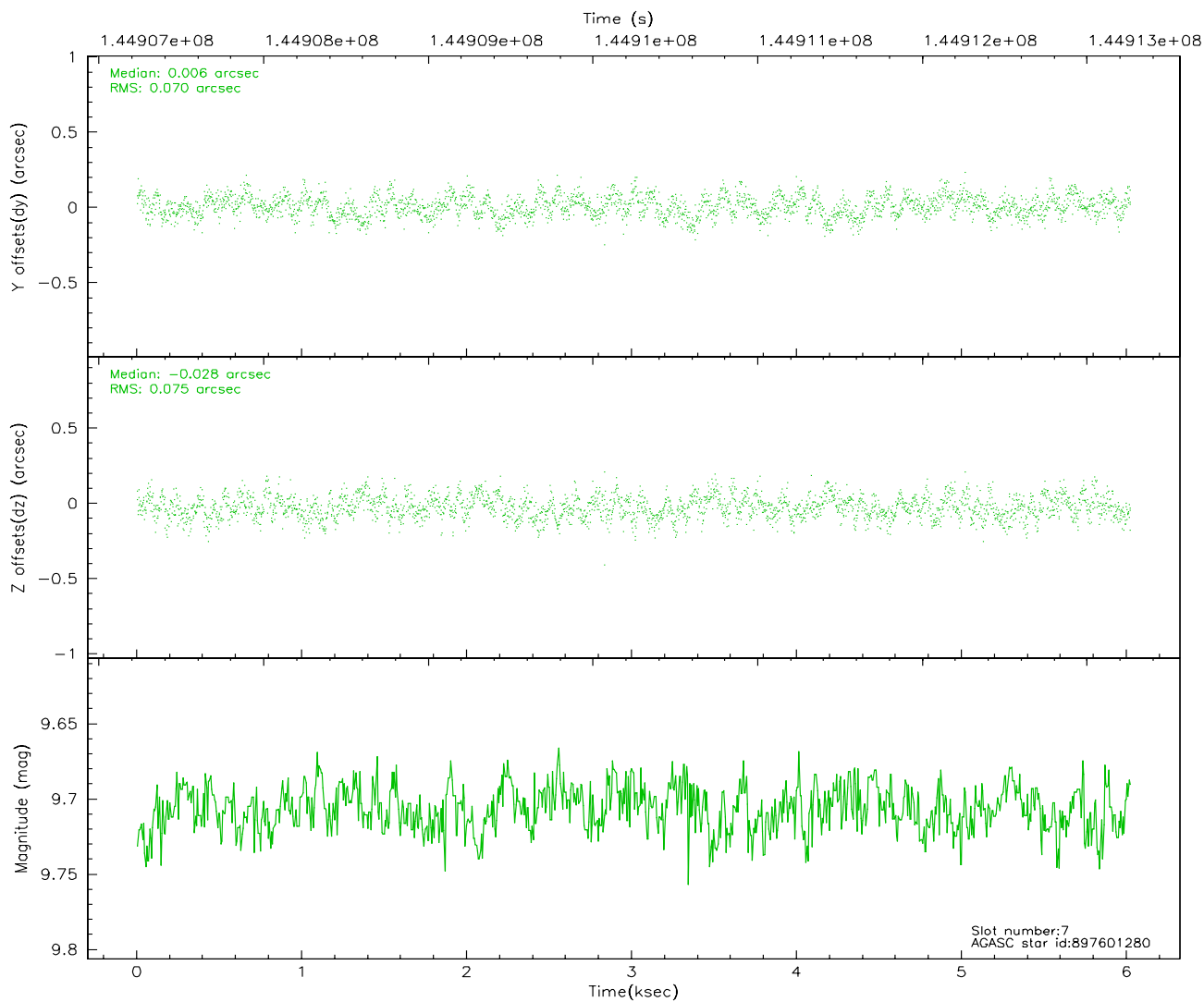
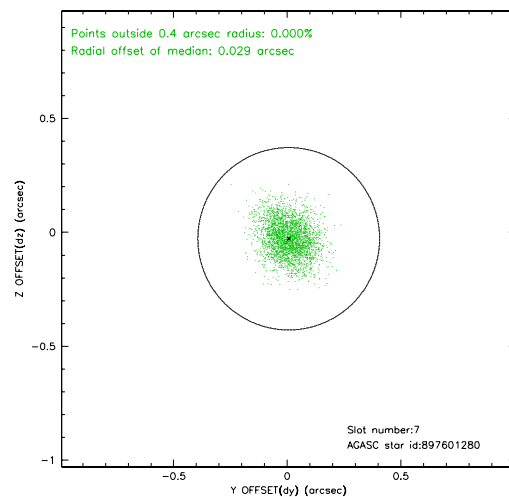
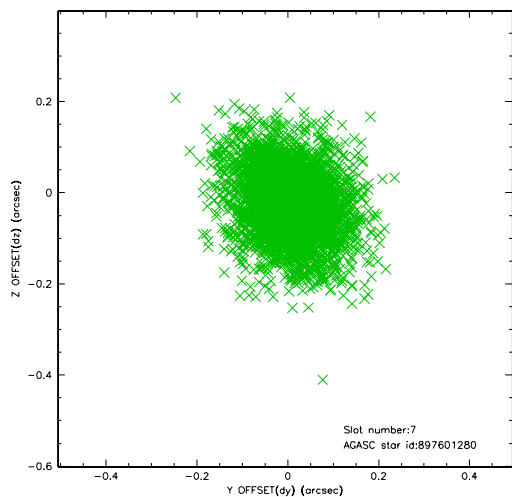
2.4.3 Slot 5



2.4.4 Slot 6

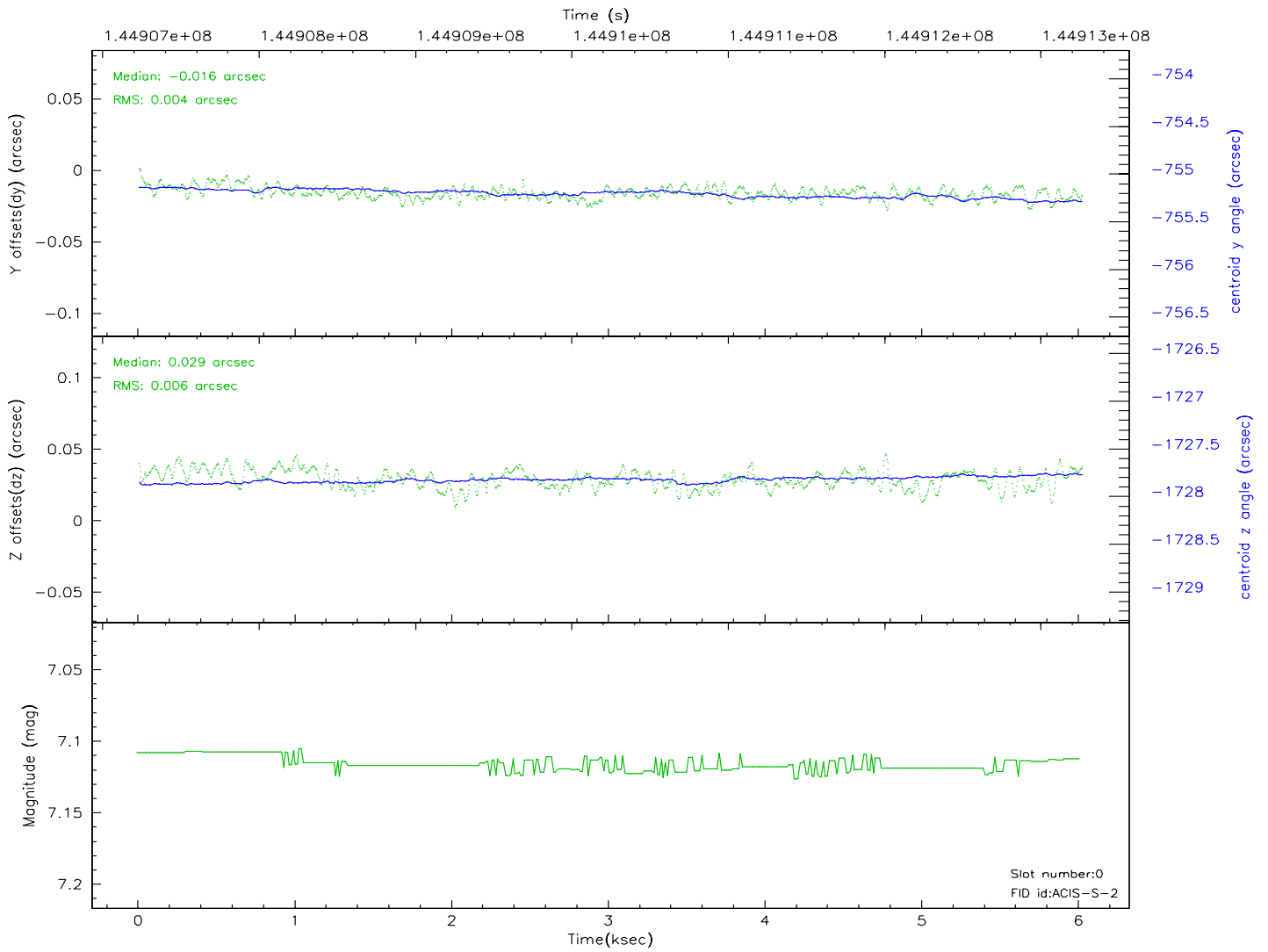
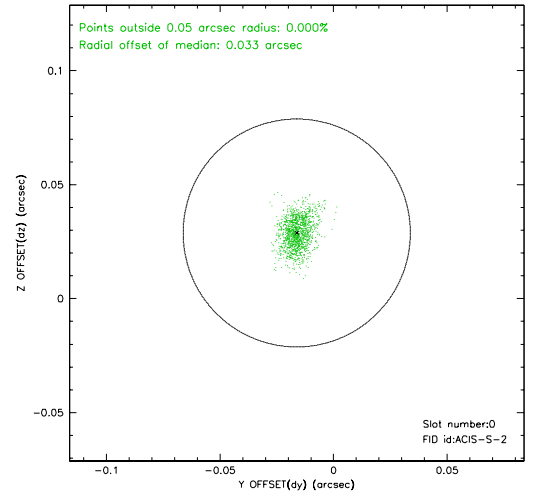
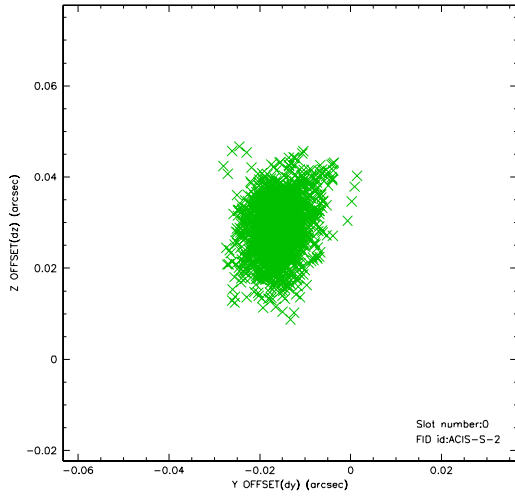


2.4.5 Slot 7

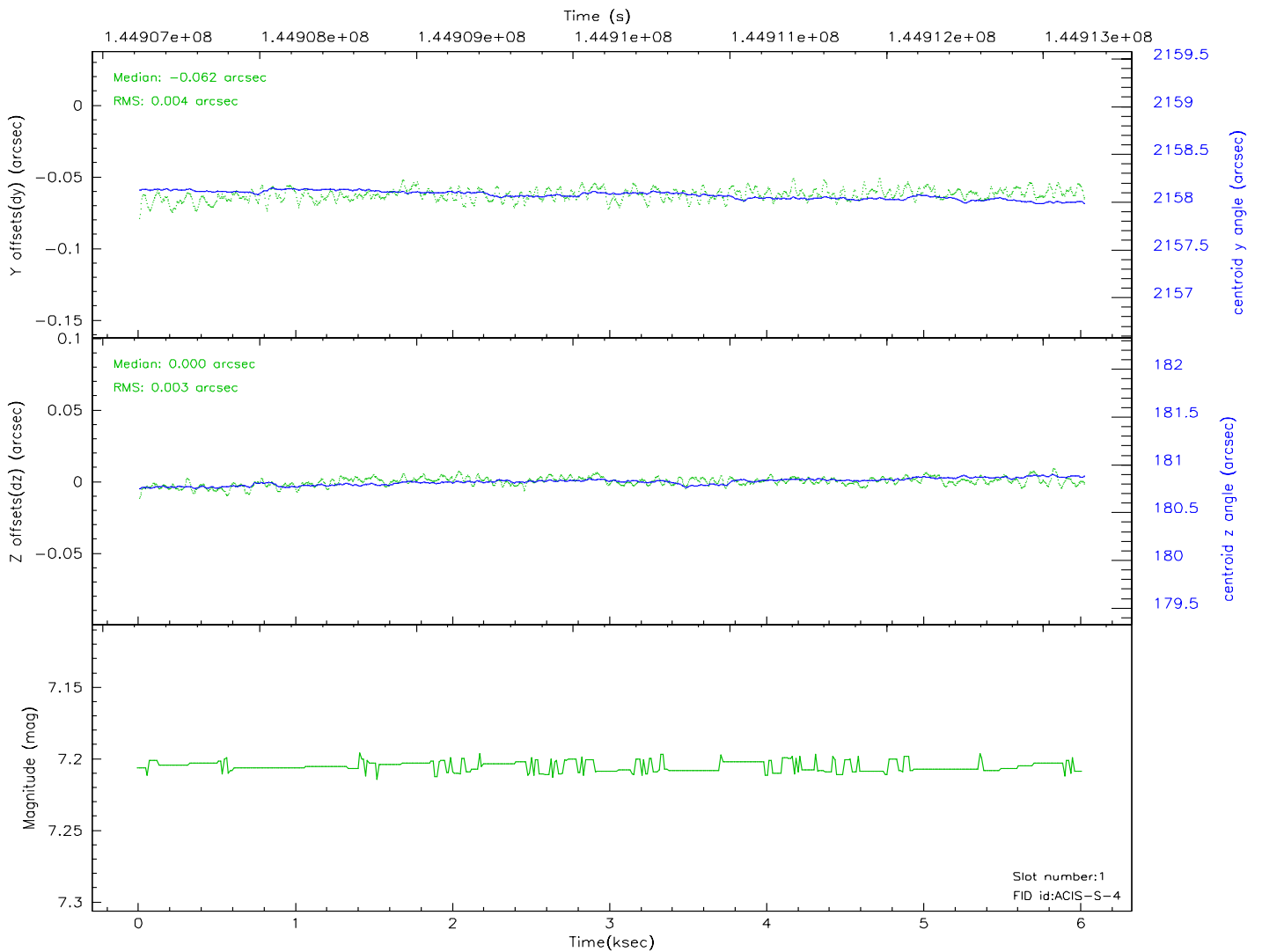
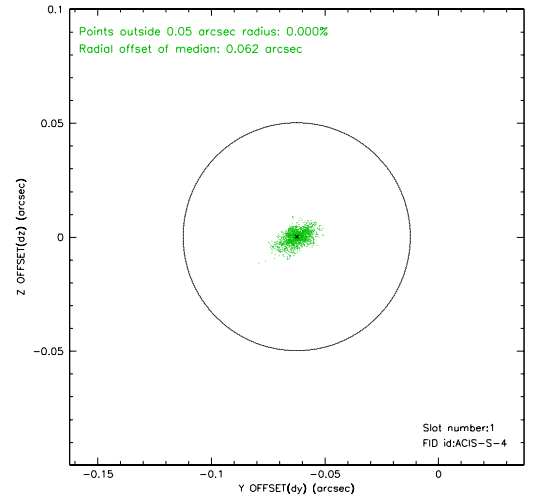
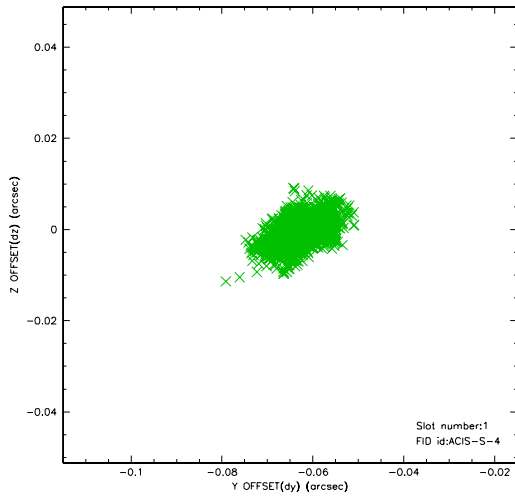


2.5 FID Slots

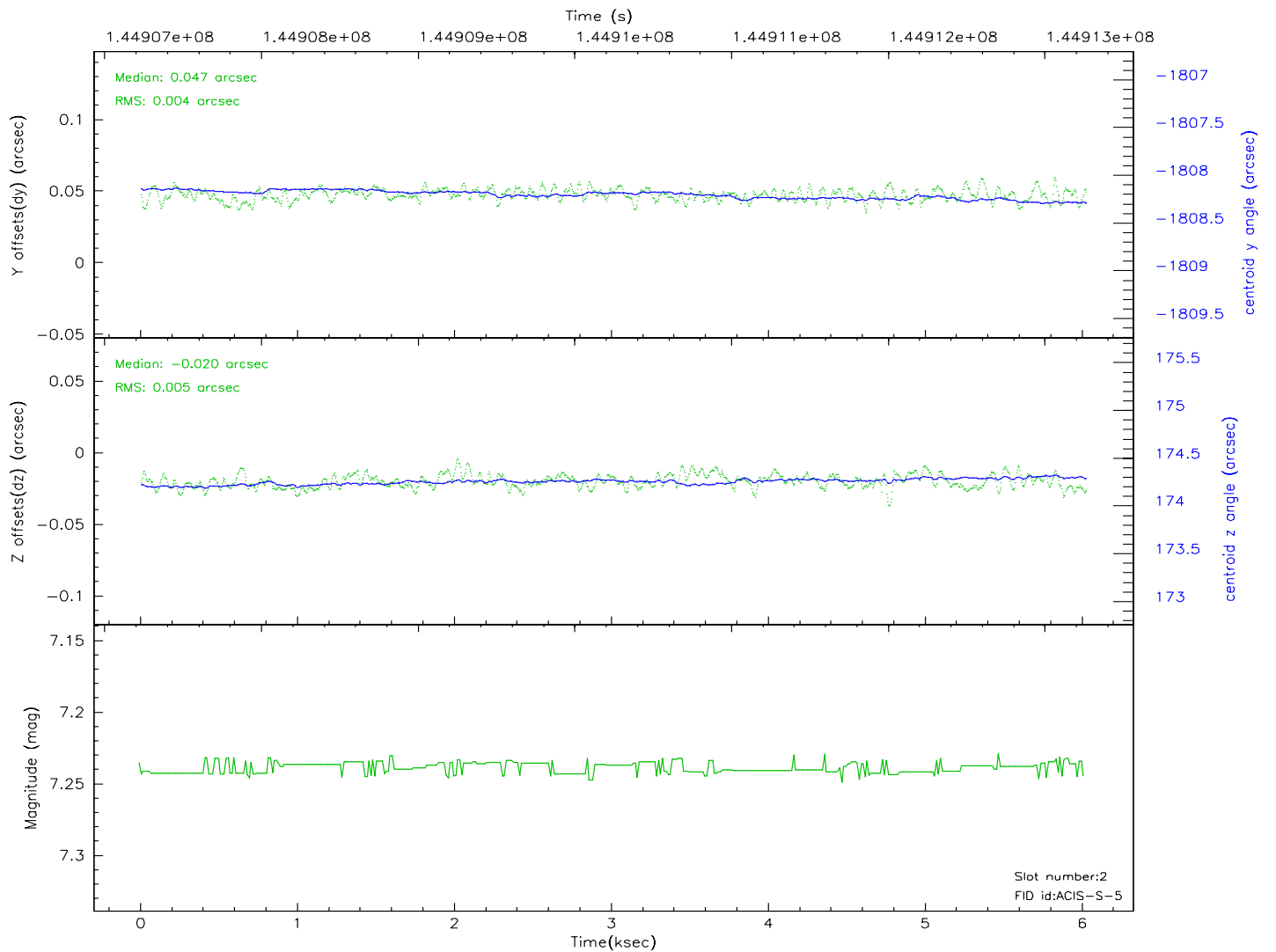
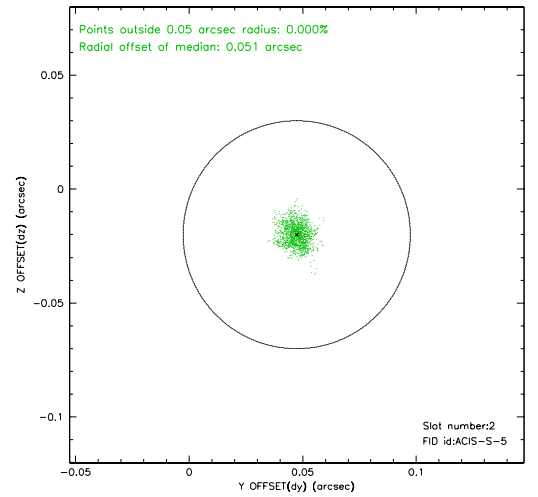
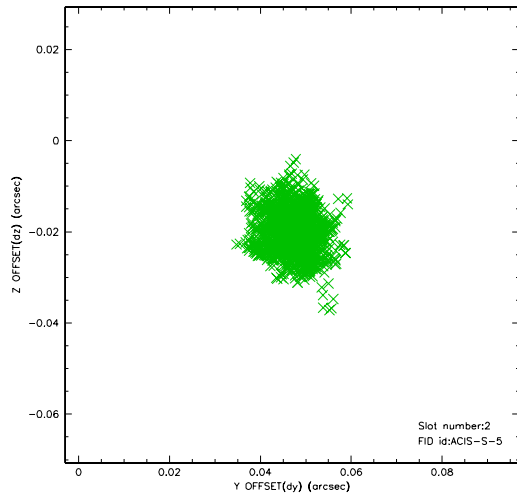
2.5.1 Slot 0



2.5.2 Slot 1



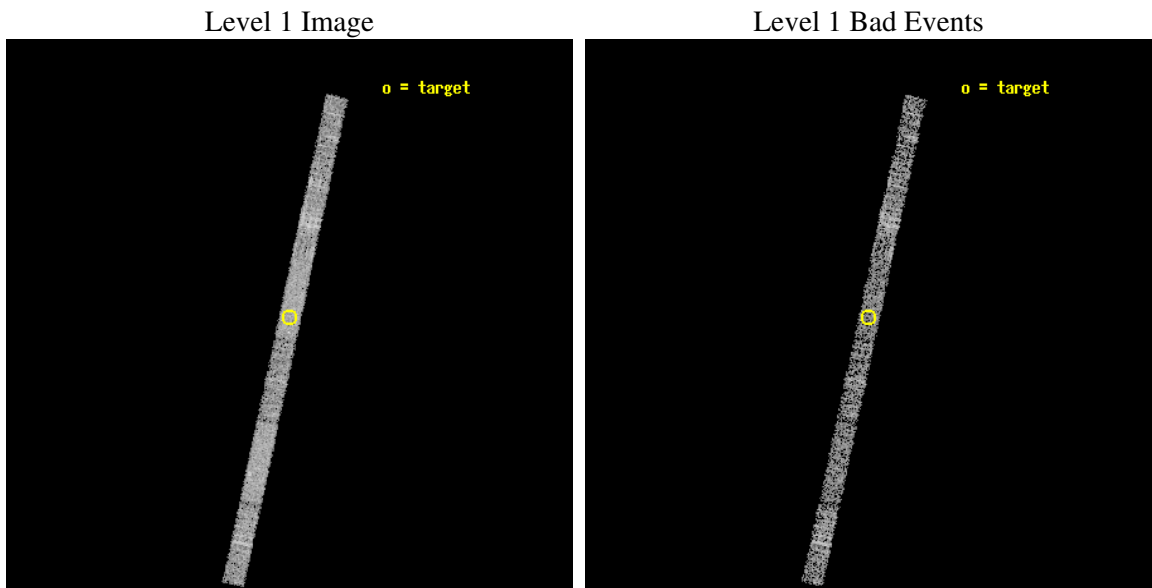
2.5.3 Slot 2



3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias

Chip 4

Chip 5

Chip 6



Chip 7

Chip 8

Chip 9



3.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.3
date	2006-09-30T06:47:22
revision	2

sched_exp_time	5000.000000
ontime	4317.0300898552
ontime4	4317.0300997198
ontime5	4317.0300400853
ontime6	4317.0300799608
ontime7	4317.0300898552
ontime8	4317.0300500691
ontime9	4317.0301696658
l1events	38554

3.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	5992	7530	4983	7347	7636	5066
rejected events	5106	3738	4129	3789	5601	4197
rejected %	85%	49%	82%	51%	73%	82%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	438	332	439	340	709	398
	7%	4%	8%	4%	9%	7%
grade 1 events	3	9	6	4	1	1
	0%	0%	0%	0%	0%	0%
grade 2 events	181	1229	152	911	376	185
	3%	16%	3%	12%	4%	3%
grade 3 events	68	97	60	232	217	70
	1%	1%	1%	3%	2%	1%
grade 4 events	77	104	68	224	216	72
	1%	1%	1%	3%	2%	1%
grade 5 events	226	353	218	520	311	241
	3%	4%	4%	7%	4%	4%
grade 6 events	124	2038	135	1856	517	145
	2%	27%	2%	25%	6%	2%
grade 7 events	4875	3368	3905	3260	5289	3954
	81%	44%	78%	44%	69%	78%

4 Point Sources

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.687

A.2 Comments

Roll preference: 288 degrees. Observed roll: 282 degrees.

Focal plane temperature is warmer than -118.7 C degrees during the first 2.6 ksec of this observation. The ACIS spectral response calibration for the front-illuminated chips is less accurate at these warmer temperatures than it is at -119.7 C. The back-illuminated chips are not affected at the focal plane temperatures recorded for this observation. Users whose science objectives depend on the most accurate spectral response (i.e.: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.