

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 5886 - L2 Version 002
Chandra X-Ray Center

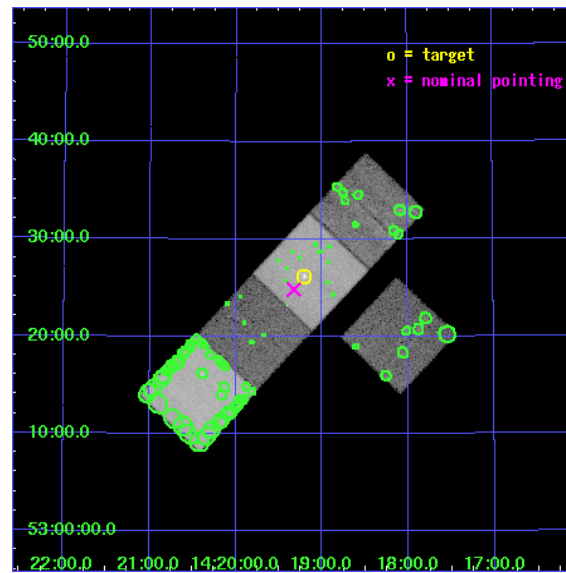
L2 Processing Date : Mar 25 2006

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1 Front

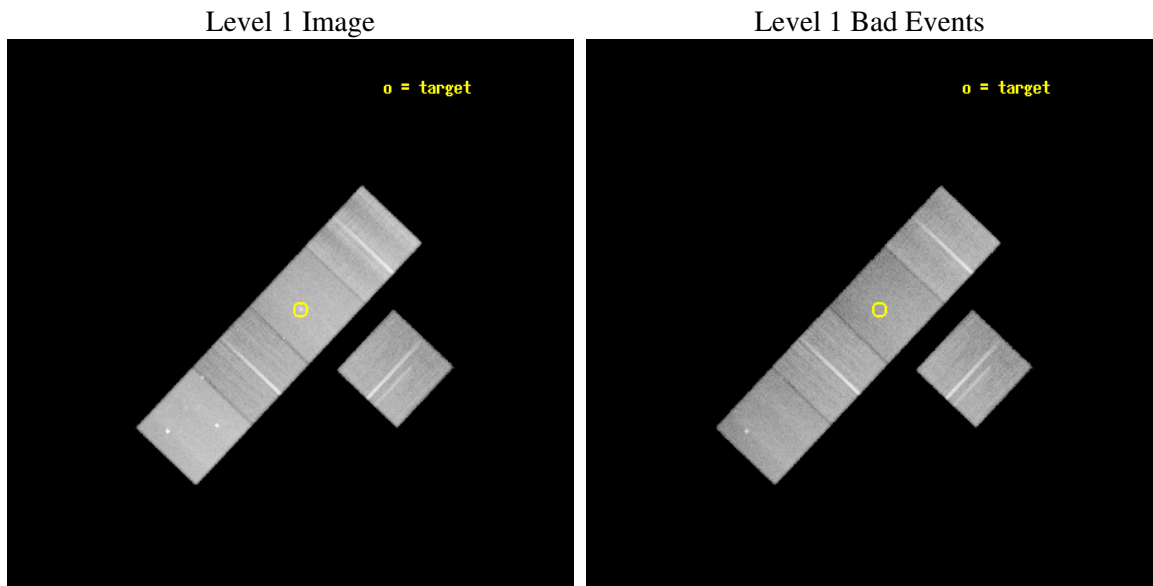
seq_num	900386
obs_id	5886
title	X-ray Emission from Optically-Selected, High-Redshift Galaxy Clusters from the RCS Survey
observer	Professor Gordon Garmire
object	RCS1419+5326
dtcycle	0
cycle	P
ra_targ	214.800417
dec_targ	53.436389
ra_nom	214.83171410649
dec_nom	53.414098004595
roll_nom	313.36077312467
revision	2
ontime	48180.199907362
livetime	47550.690125826
ontime3	48180.199907362
ontime5	48180.199907362
ontime6	48177.058927119
ontime7	48180.199907362
ontime8	48180.199907362
l2events	392200



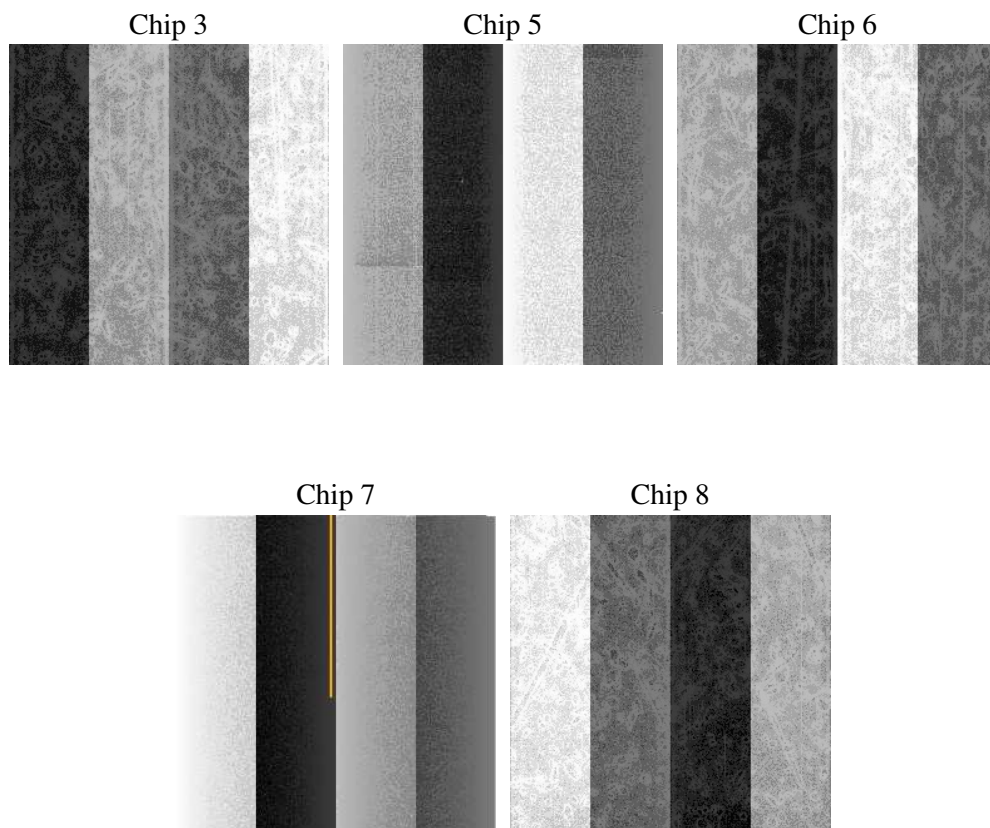
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-03-25T19:29:33
revision	2

sched_exp_time	48000.000000
ontime	48572.469843477
ontime3	48572.469813526
ontime5	48572.469843477
ontime6	48569.328863233
ontime7	48572.469843477
ontime8	48572.469843477
l1events	1545517

2.1.4 Events

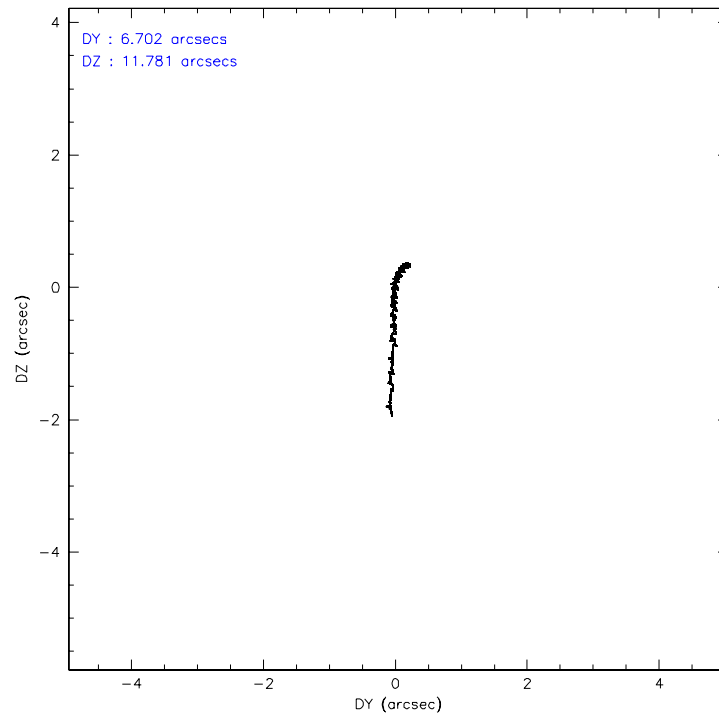
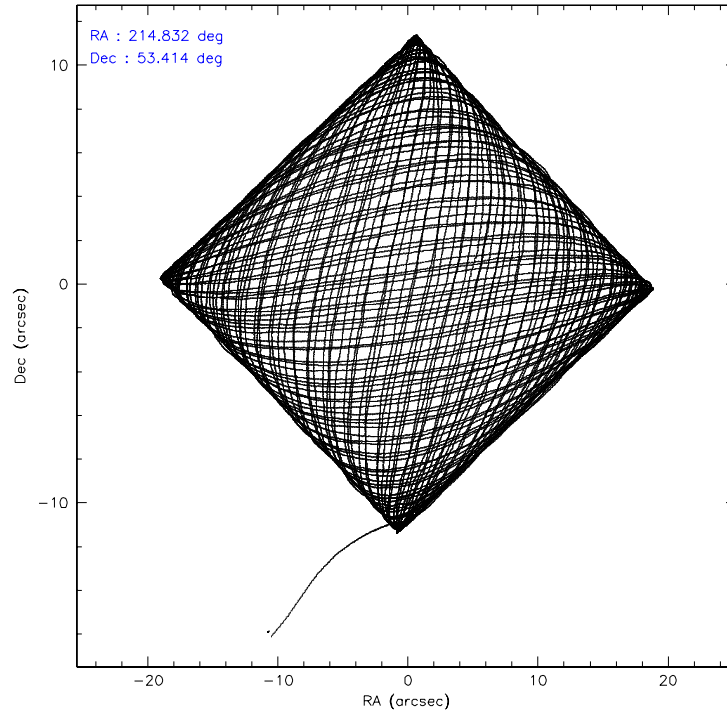
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	253113	369998	261619	309225	351562
rejected events	226865	189714	231354	170988	247925
rejected %	89%	51%	88%	55%	70%

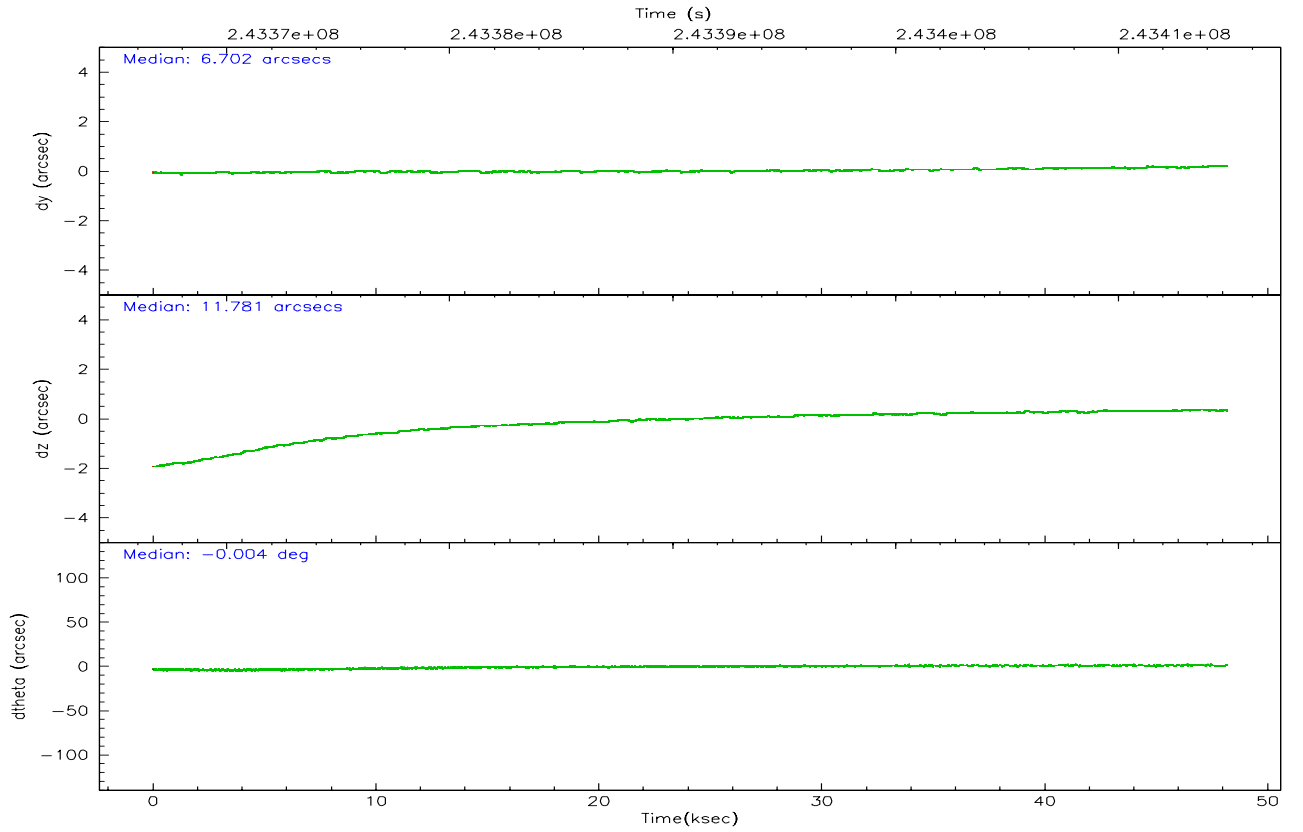
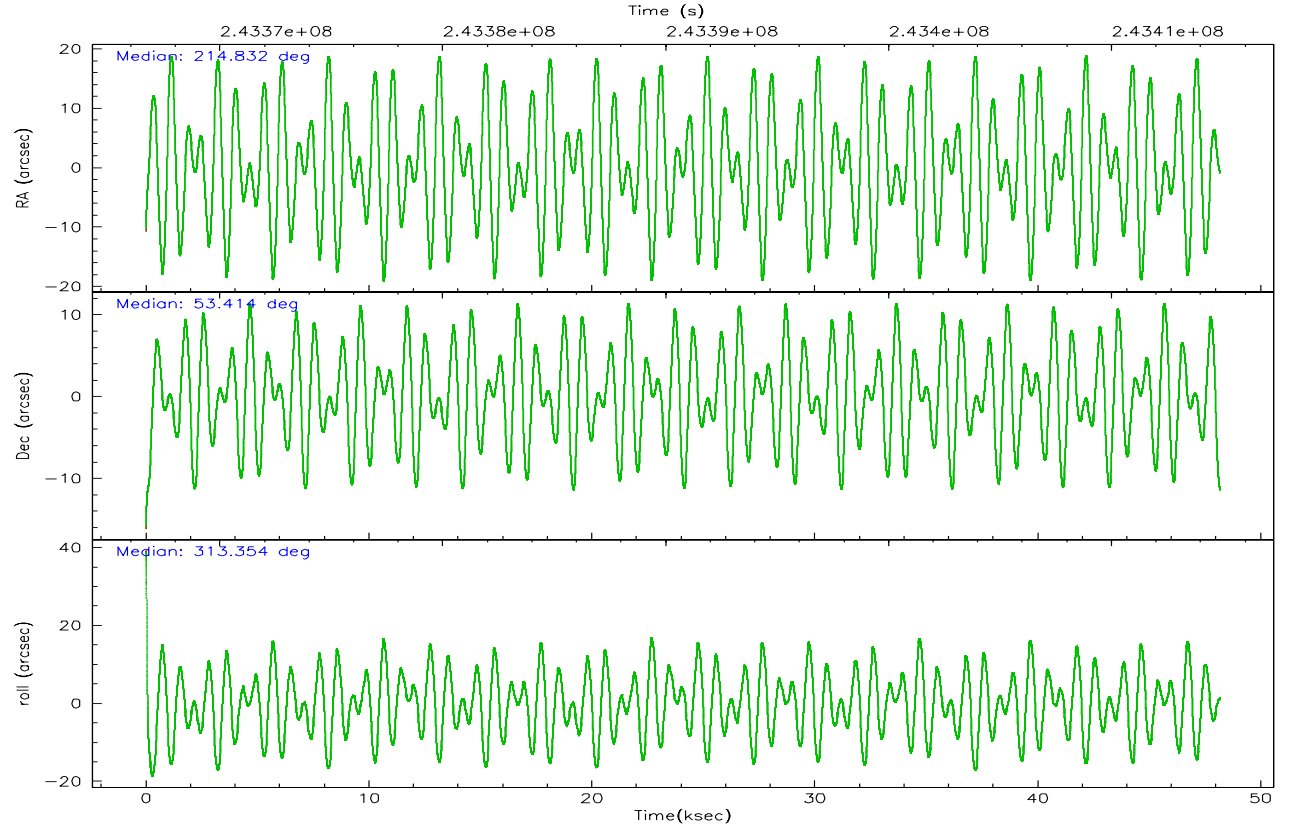
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	9755	10643	11209	9875	33330
	3%	2%	4%	3%	9%
grade 1 events	124	1189	136	122	274
	0%	0%	0%	0%	0%
grade 2 events	5568	60054	6763	35071	20572
	2%	16%	2%	11%	5%
grade 3 events	3028	5038	3089	8216	12948
	1%	1%	1%	2%	3%
grade 4 events	2830	4894	3111	8232	11940
	1%	1%	1%	2%	3%
grade 5 events	10416	19876	10685	22986	15545
	4%	5%	4%	7%	4%
grade 6 events	5297	101404	6325	77970	25673
	2%	27%	2%	25%	7%
grade 7 events	216095	166900	220301	146753	231280
	85%	45%	84%	47%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-35678	ACIS-35678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	214.787773	214.8317141064896	Alternating exposures requested	N	N
Pointing Dec	53.421526	53.41409800459451	Primary exposure time	0.000000	3.1
Pointing Roll	313.239426	313.3607731246699			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	243366877.184000	243365684.23377			
Observation start date	2005-09-17T17:53:33	2005-09-17T17:34:44			
Observation end time	243414877.184000	243415884.12357			
Observation end date	2005-09-18T07:13:33	2005-09-18T07:31:24			
Read mode	TIMED	TIMED			

2.3 Aspect



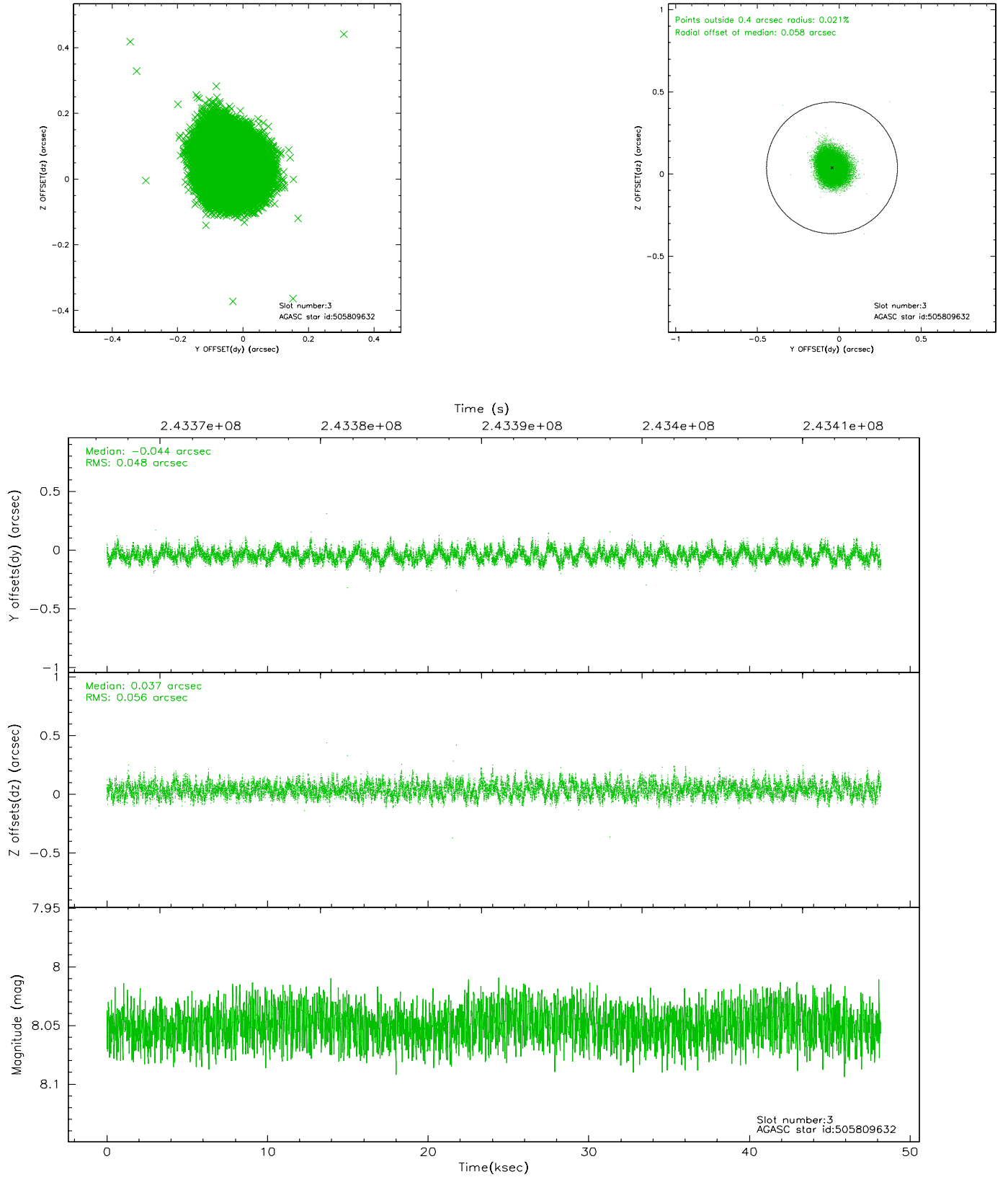


Slot Statistics

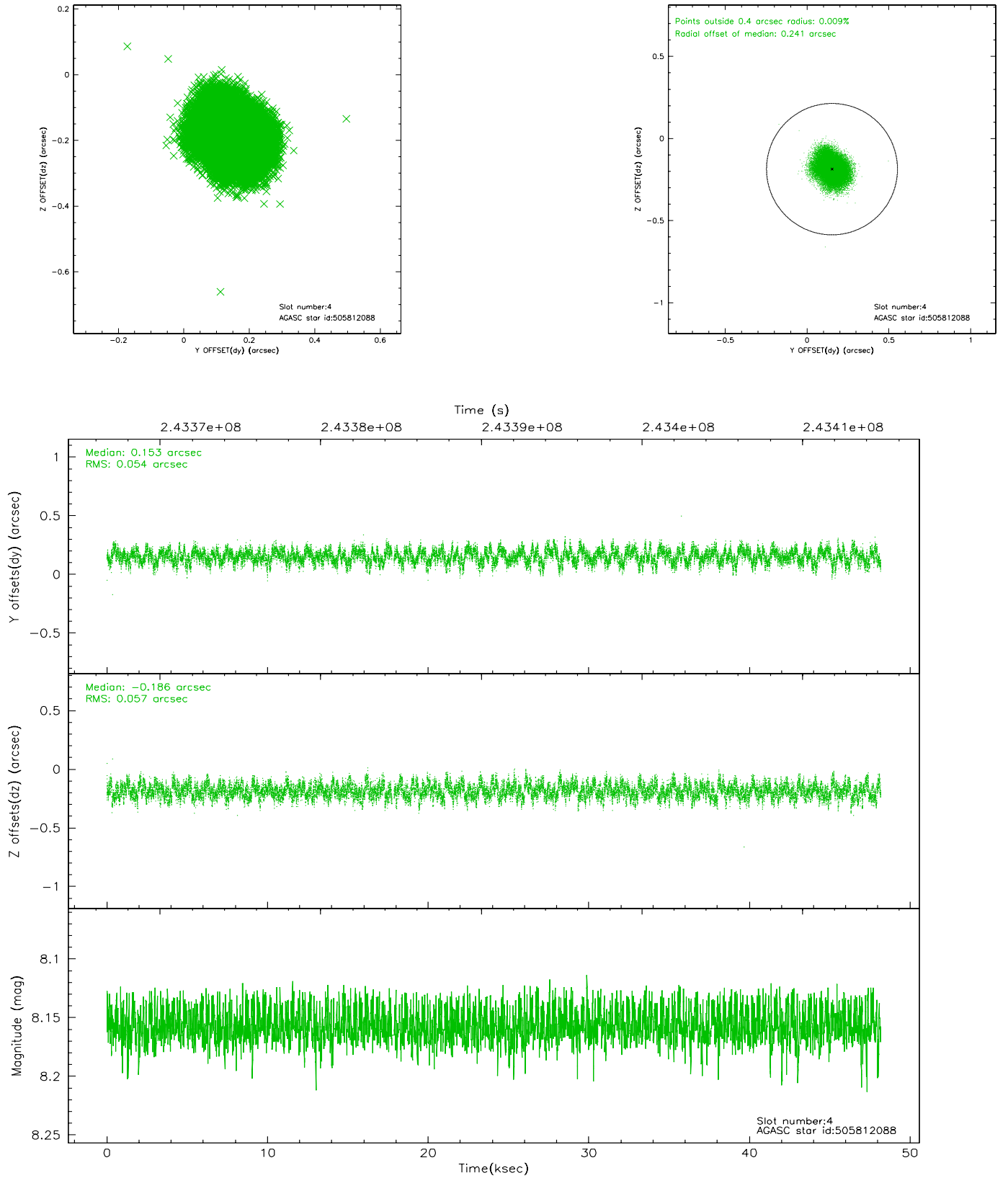
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	11753	-0.027	-0.000	0.015	0.029	0.000000	0.000000	-759.49	-1732.85
1	FID	ACIS-S-4	7.20	11753	0.035	0.013	0.015	0.034	0.000000	0.000000	2153.85	175.67
2	FID	ACIS-S-5	7.23	11751	-0.040	-0.004	0.011	0.018	0.000000	0.000000	-1812.37	169.29
3	GUIDE	505809632	8.05	23500	-0.044	0.037	0.079	0.124	215.499426	53.521185	776.58	1360.78
4	GUIDE	505812088	8.16	23432	0.153	-0.186	0.086	0.132	214.186617	53.263562	-475.89	-1328.96
5	GUIDE	505817208	10.14	23452	0.042	0.019	0.163	0.269	216.079038	53.466425	1759.54	2143.95
6	GUIDE	505817616	10.10	23297	0.047	0.140	0.152	0.243	216.040487	53.402541	1874.26	1928.38
7	GUIDE	505812376	7.65	23504	-0.197	-0.012	0.079	0.124	214.039537	52.937930	150.39	-2369.29

2.4 Star Slots

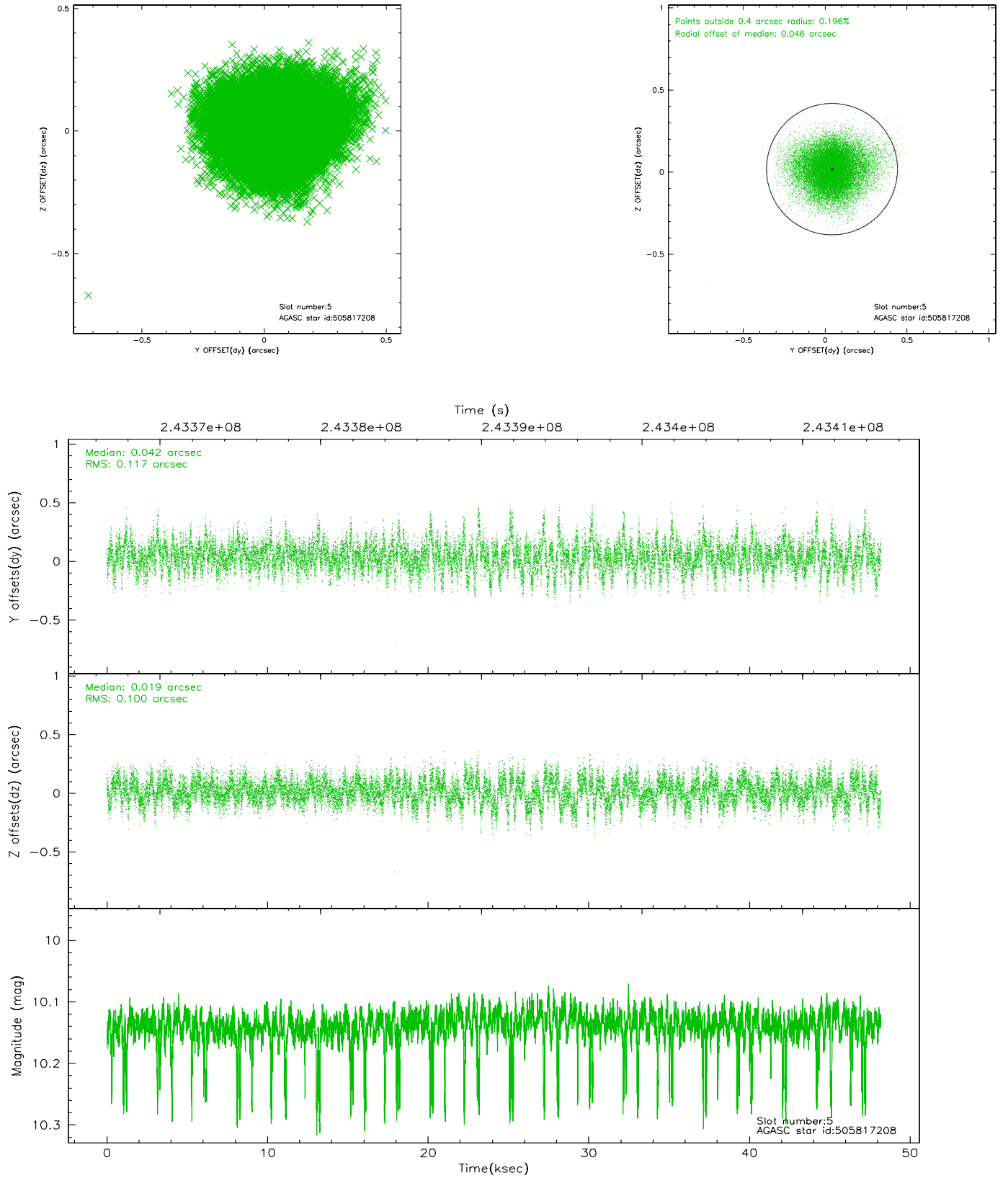
2.4.1 Slot 3



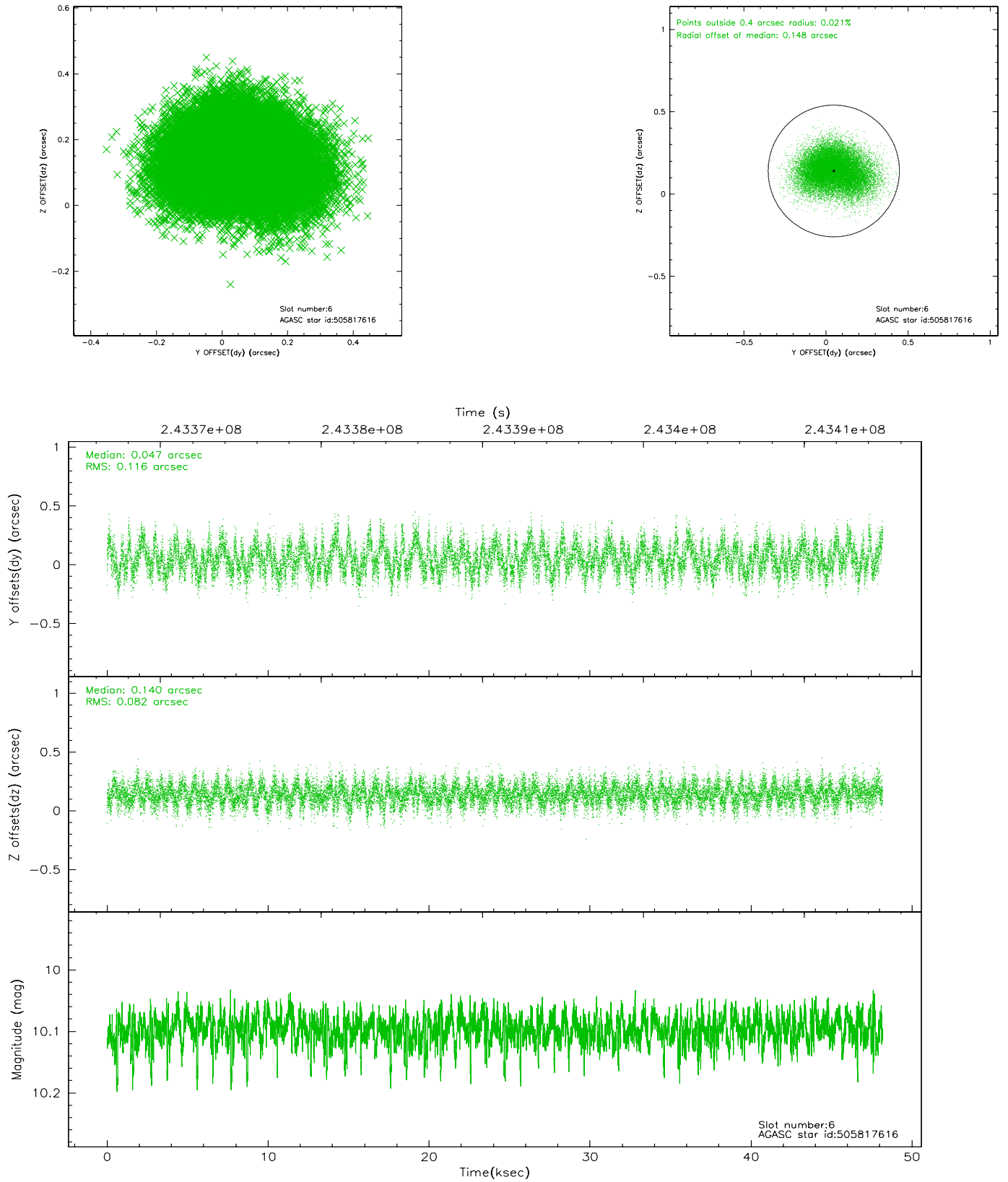
2.4.2 Slot 4



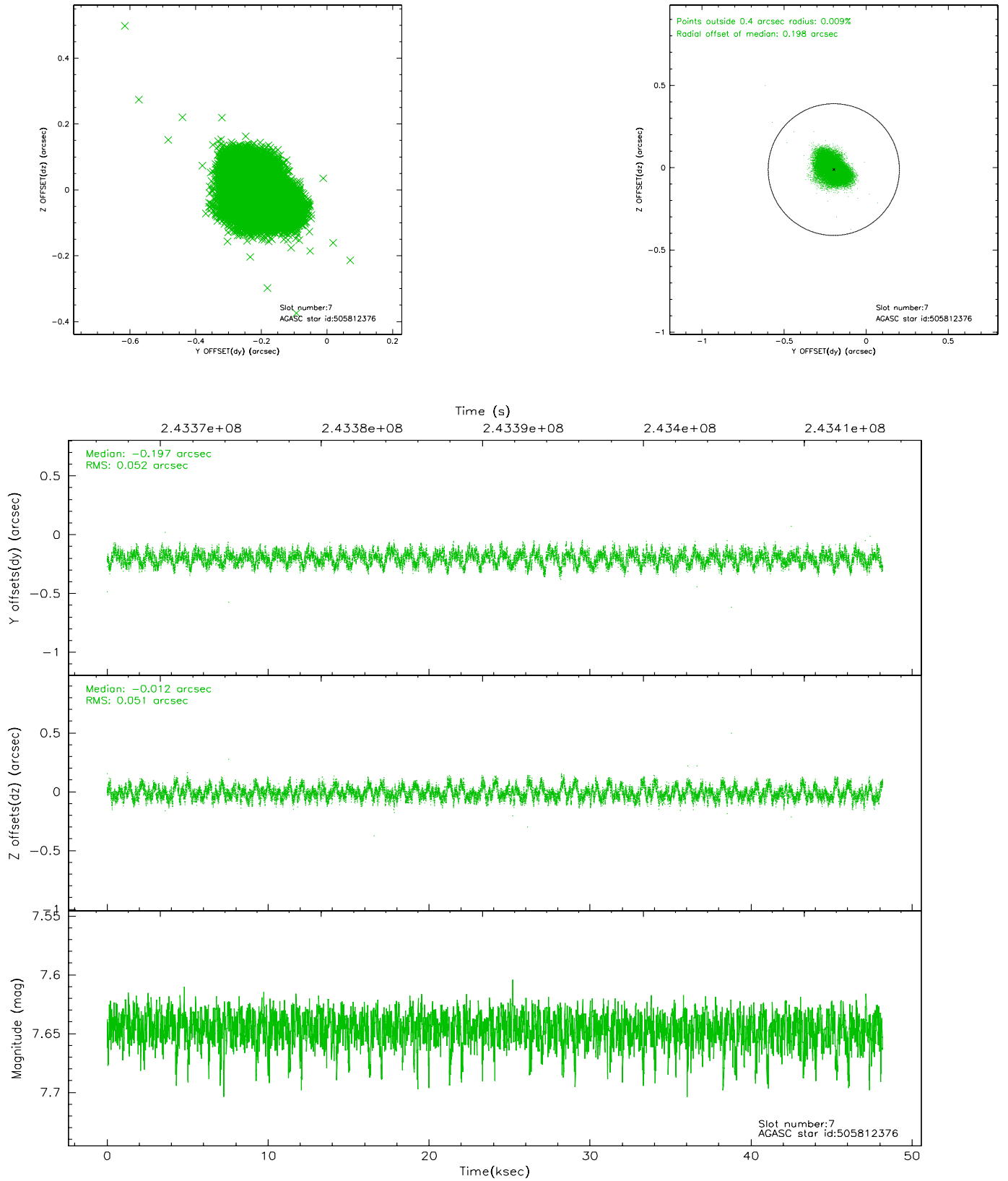
2.4.3 Slot 5



2.4.4 Slot 6

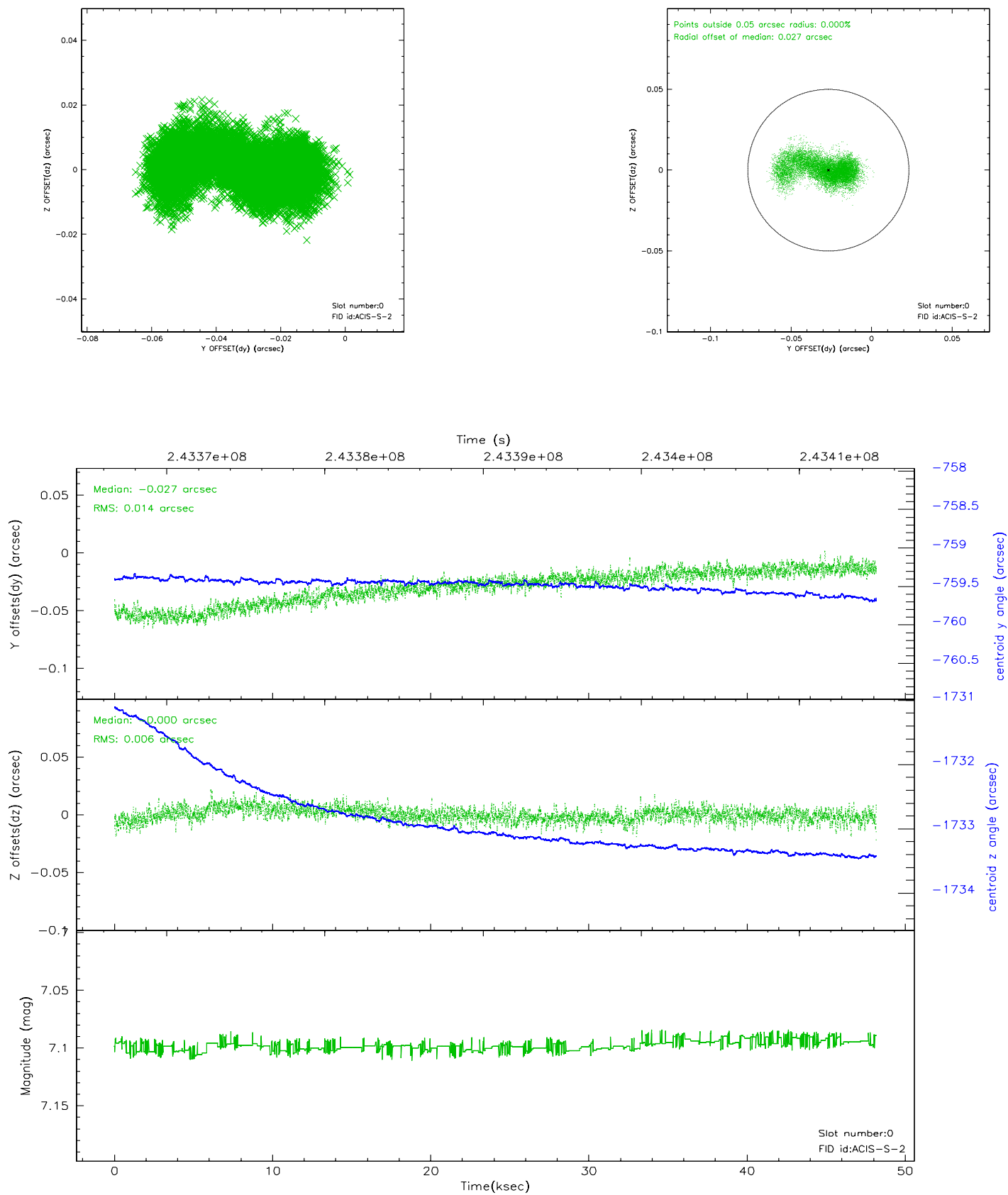


2.4.5 Slot 7

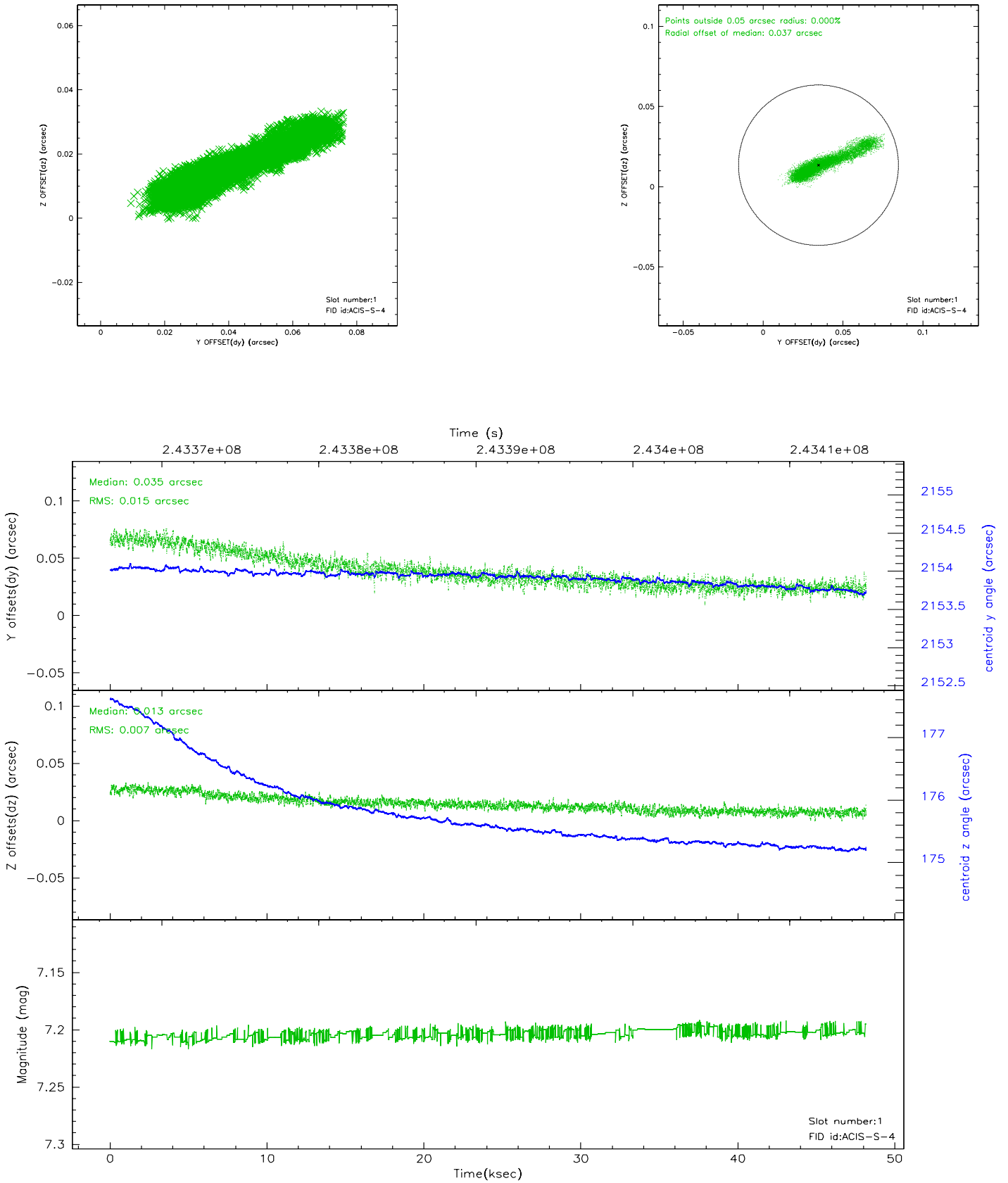


2.5 FID Slots

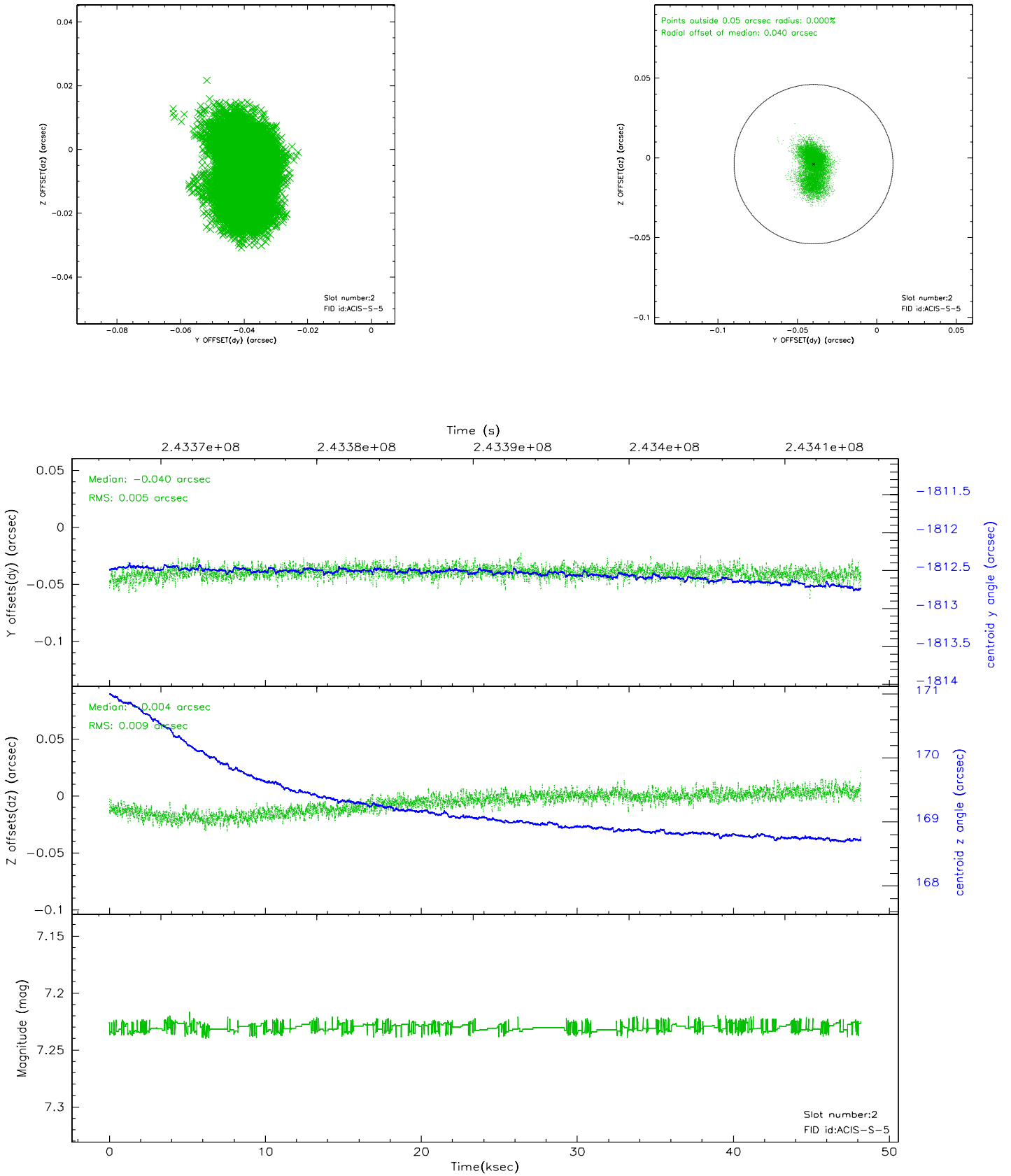
2.5.1 Slot 0



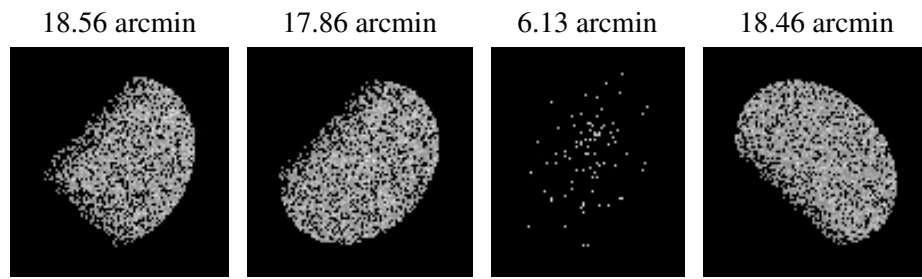
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.03.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	48.18019

A.2 Comments

As a consequence of the DEA-A shutdown anomaly on Sep 15th (DOY258), the the reported value of the ACIS FP temperature was ~1.3 degrees warmer than the actual temperature. GOs should subtract 1.3 degrees from the reported temperature to determine the true temperature. In addition the FP temperature was not regulating during this period. The FP temperature fluctuated between -121.3 C and -118.8 C during this time. For analysis of line-dominated spectra from the FI CCDs, GOs might notice a systematic gain shift by up to 0.5%, either towards higher/lower energies depending on if the FP temperature was colder/warmer than -119.7 C. Analysis of line-dominated spectra on S3 are mostly unaffected (where mostly unaffected means that the changes are smaller than the current uncertainties in the calibration). Analysis of continuum-dominated spectra on both the FI and BI CCDs are mostly unaffected. Imaging analysis on both the FI and BI CCDs are mostly unaffected.