

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 12839 - L2 Version 3  
Chandra X-Ray Center

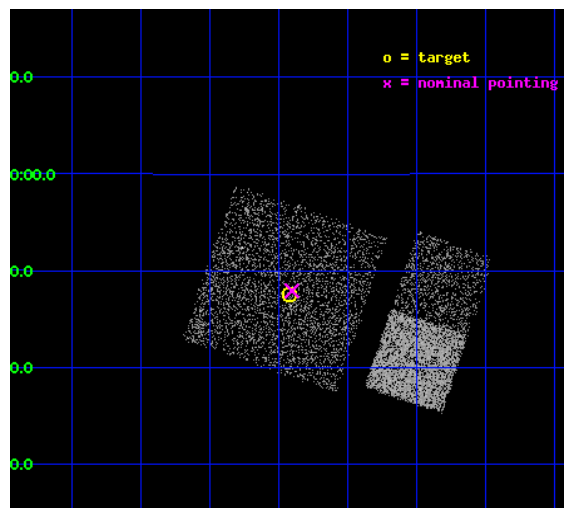
L2 Processing Date : Feb 23 2012

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# 1 Front

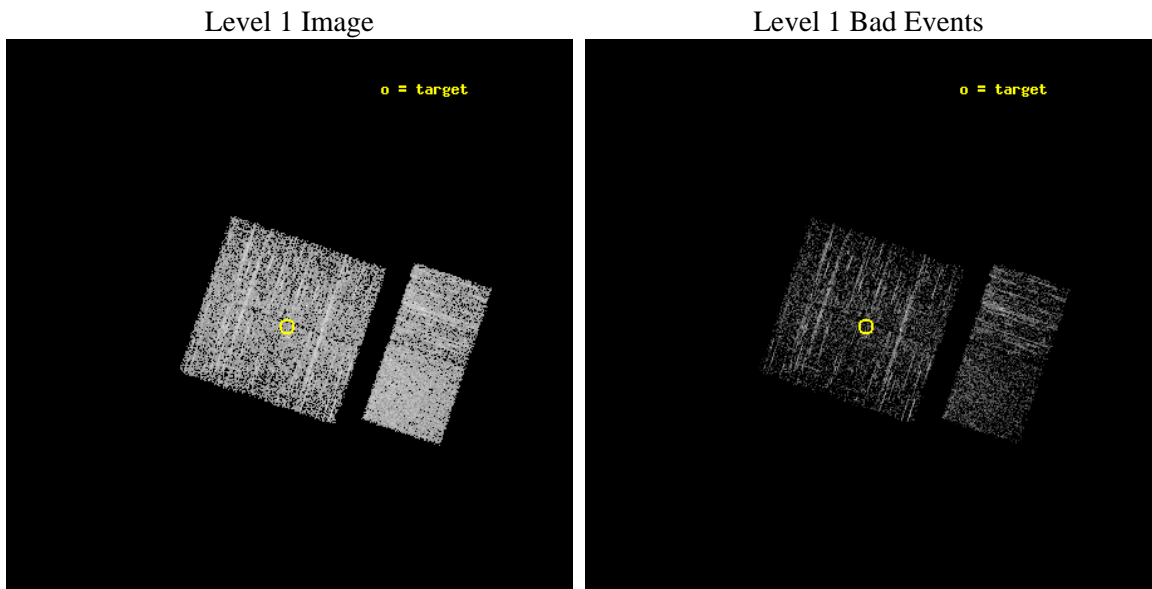
seq_num	702472	Sequence number
obs_id	12839	Observation id
title	Chandra observations of unidentified Fermi sources detected by INTEGRAL	Proposal title
observer	Mr. Claudio Ricci	Principal investigator
object	1FGL J0147.4+1547	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	26.85625	Observer's specified target RA [deg]
dec_targ	15.792194	Observer's specified target Dec [deg]
ra_nom	26.851280053812	Nominal RA [deg]
dec_nom	15.798914064944	Nominal Dec [deg]
roll_nom	108.74551200584	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2060.2481043339	Sum of GTIs [s]
livetime	2034.1600023043	Livetime [s]
ontime0	2060.124984324	Sum of GTIs [s]
ontime1	2060.1660243273	Sum of GTIs [s]
ontime2	2060.2070643306	Sum of GTIs [s]
ontime3	2060.2481043339	Sum of GTIs [s]
ontime6	2060.3301843405	Sum of GTIs [s]
ontime7	2060.2891443372	Sum of GTIs [s]
l2events	12300	Number of level 2 events



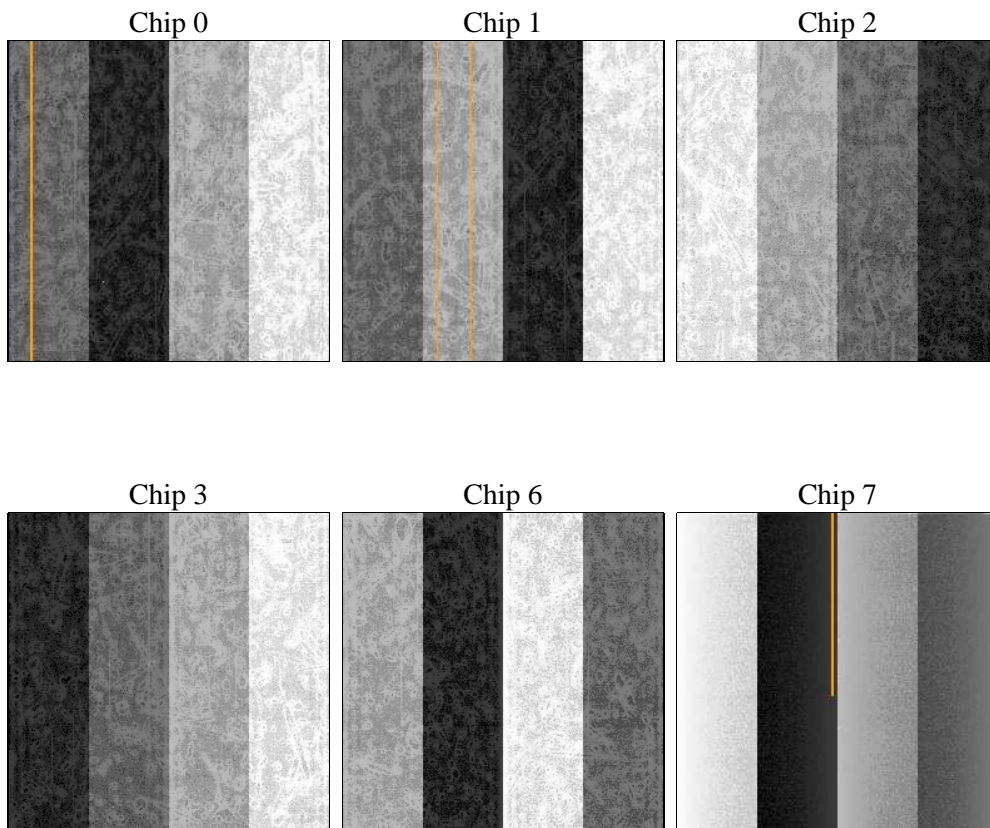
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	2060.2481043339	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	2060.124984324	Sum of GTIs [s]
date	2012-02-23T19:36:42	Date and time of file creation	ontime1	2060.1660243273	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	2060.2070643306	Sum of GTIs [s]
			ontime3	2060.2481043339	Sum of GTIs [s]
			ontime6	2060.3301843405	Sum of GTIs [s]
			ontime7	2060.2891443372	Sum of GTIs [s]
			l1events	71370	Number of level 1 events

### 2.1.4 Events

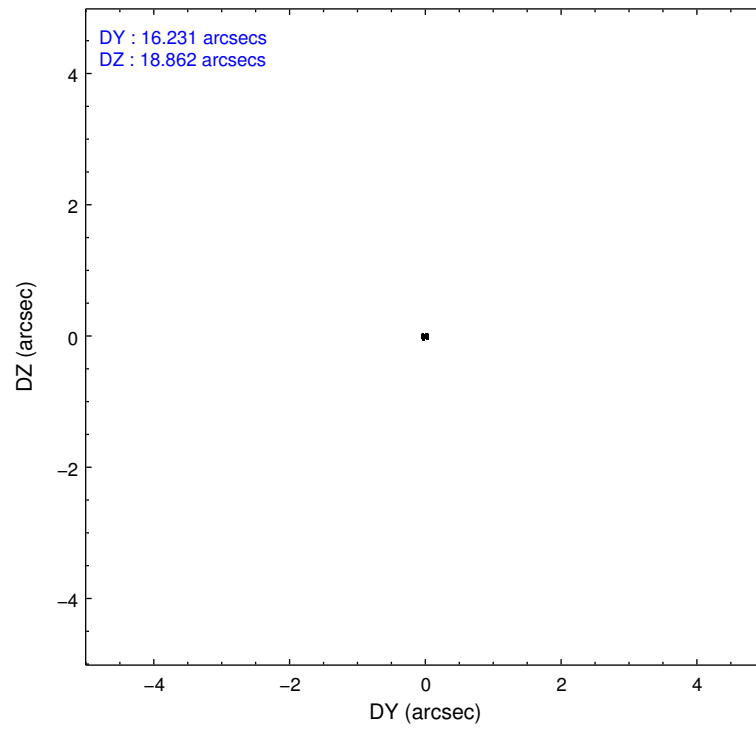
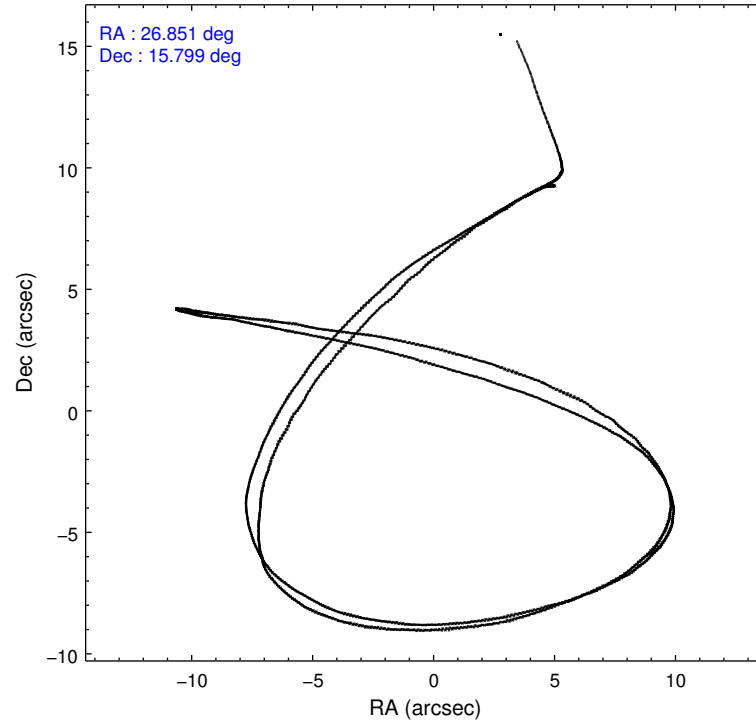
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	11296	10679	11091	10738	12569	14997
rejected events	9923	9179	9797	9376	11243	8356
rejected %	87%	85%	88%	87%	89%	55%

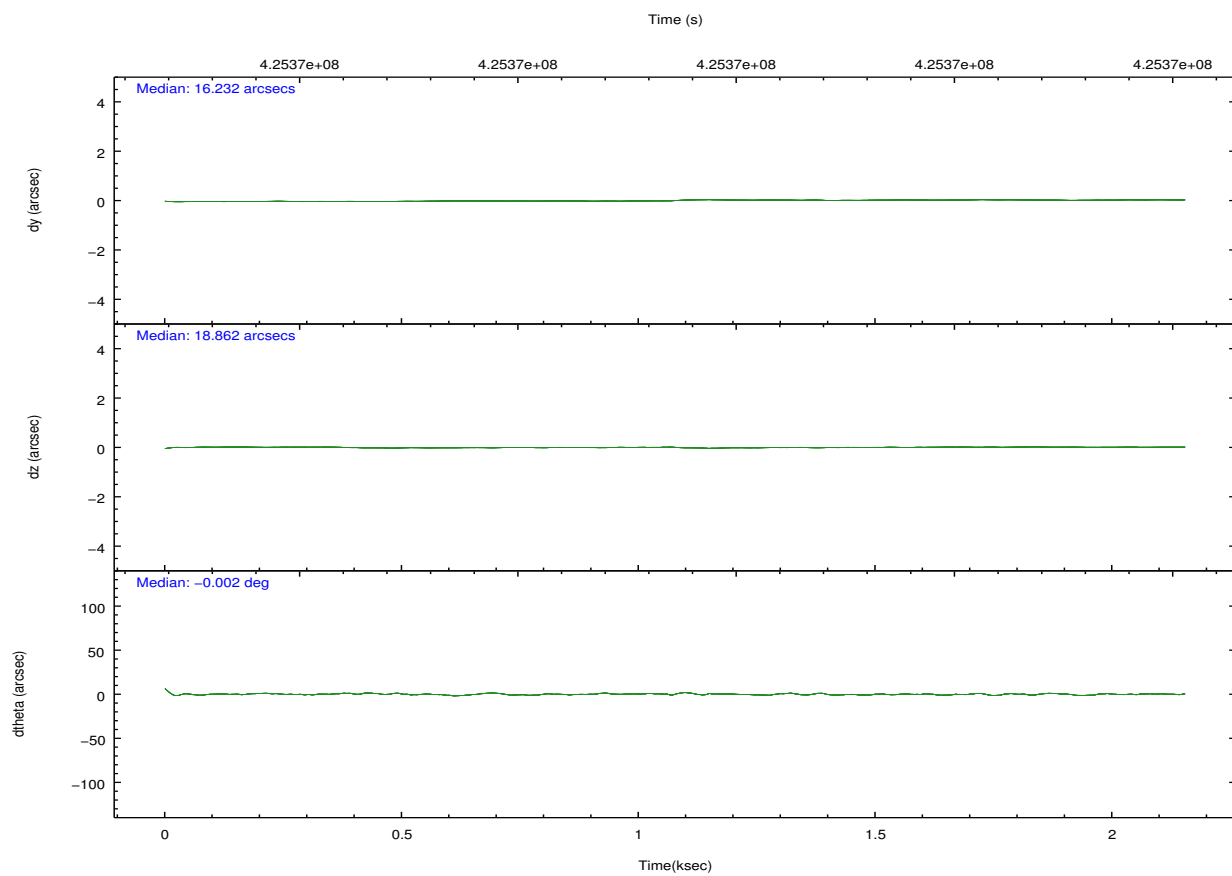
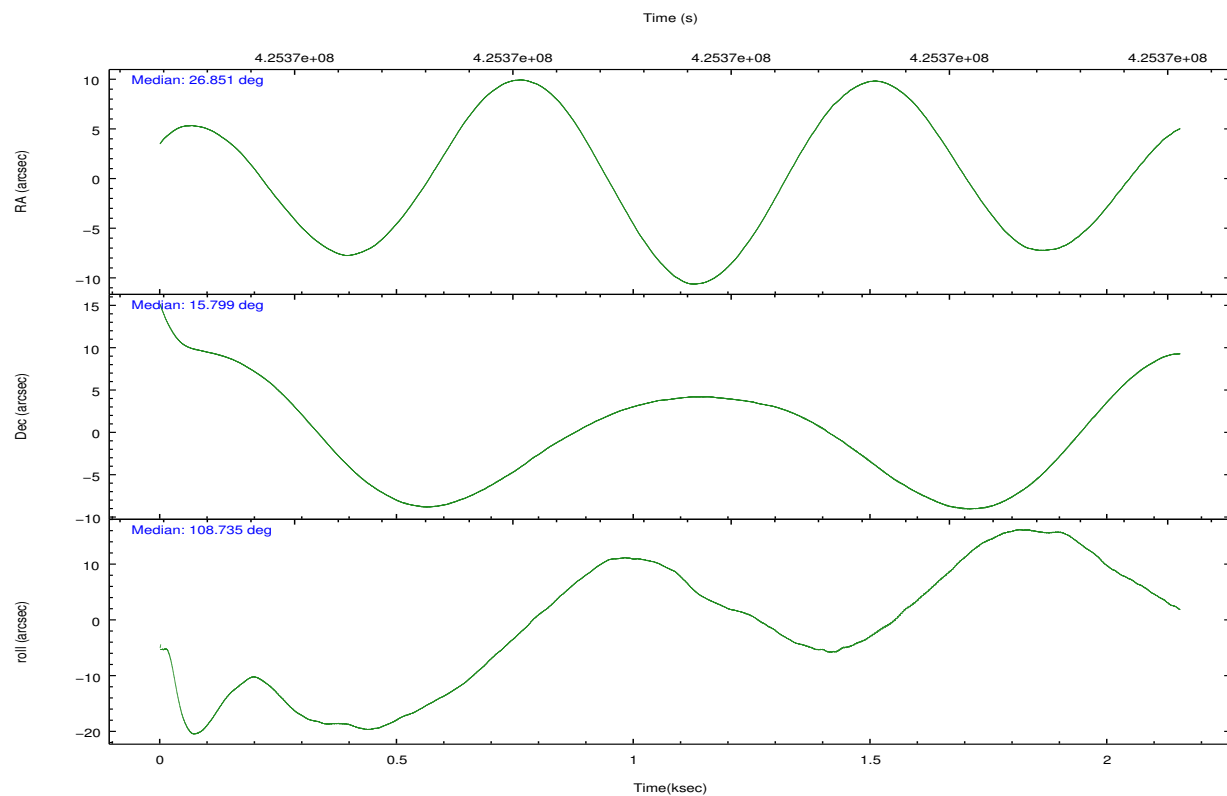
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	493	554	498	496	452	615
	4%	5%	4%	4%	3%	4%
grade 1 events	13	9	6	12	7	9
	0%	0%	0%	0%	0%	0%
grade 2 events	338	312	306	329	315	1391
	2%	2%	2%	3%	2%	9%
grade 3 events	139	146	128	137	128	608
	1%	1%	1%	1%	1%	4%
grade 4 events	129	176	126	144	124	556
	1%	1%	1%	1%	0%	3%
grade 5 events	505	547	444	549	590	1551
	4%	5%	4%	5%	4%	10%
grade 6 events	276	313	238	259	311	3480
	2%	2%	2%	2%	2%	23%
grade 7 events	9403	8622	9345	8812	10642	6787
	83%	80%	84%	82%	84%	45%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	26.872866	26.85128005381157	CCD I2 on	Y	Y
[deg] Pointing Dec	15.780680	15.79891406494441	CCD I3 on	Y	Y
[deg] Pointing Roll	108.530847	108.7455120058437	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	425368444.184000	425367288.23251	CCD S5 on	N	N
Observation start date	2011-06-25T05:52:58	2011-06-25T05:34:48	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	425370444.184000	425371288.80772	On-chip summing requested	N	N
Observation end date	2011-06-25T06:26:18	2011-06-25T06:41:28	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





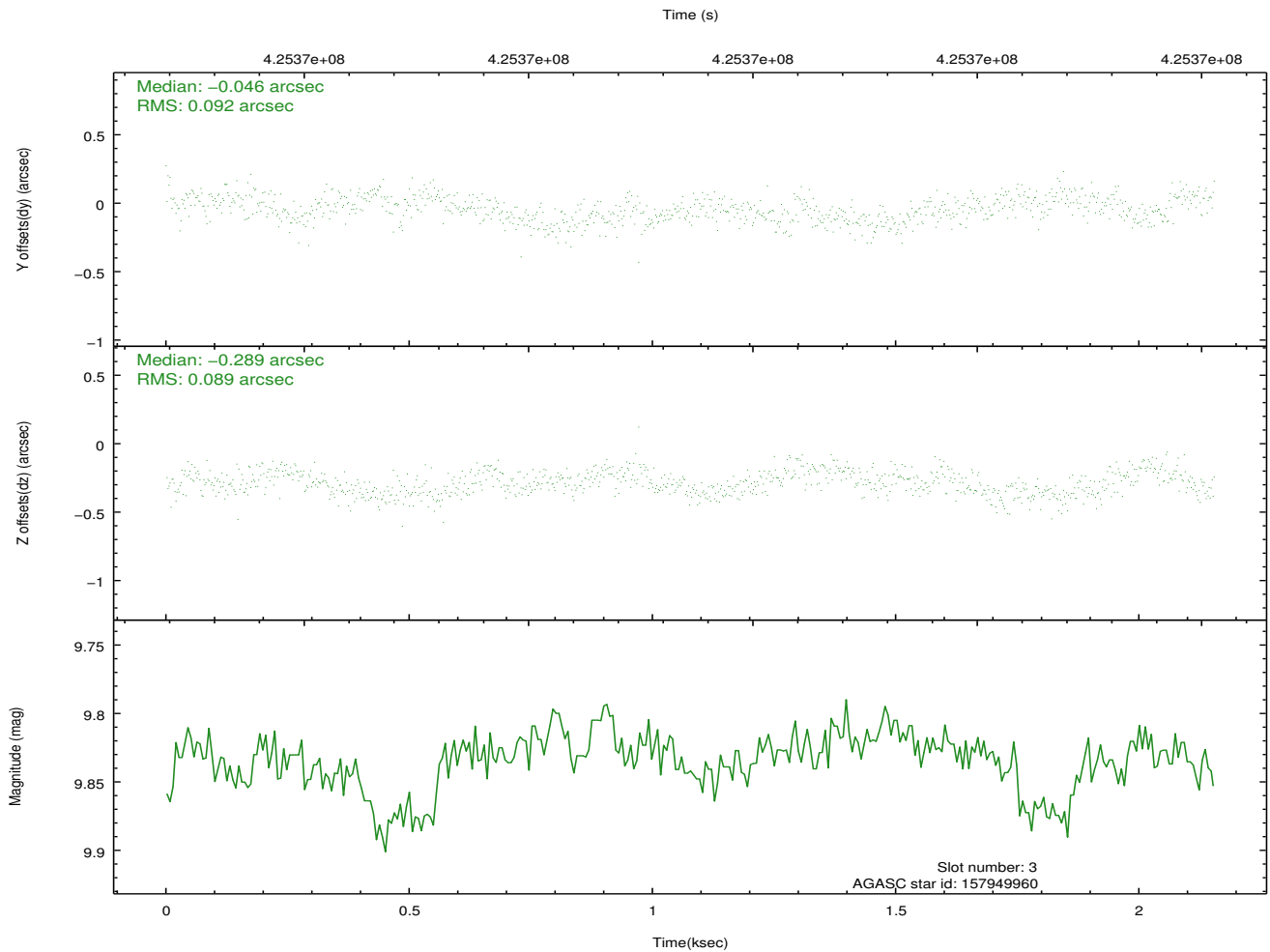
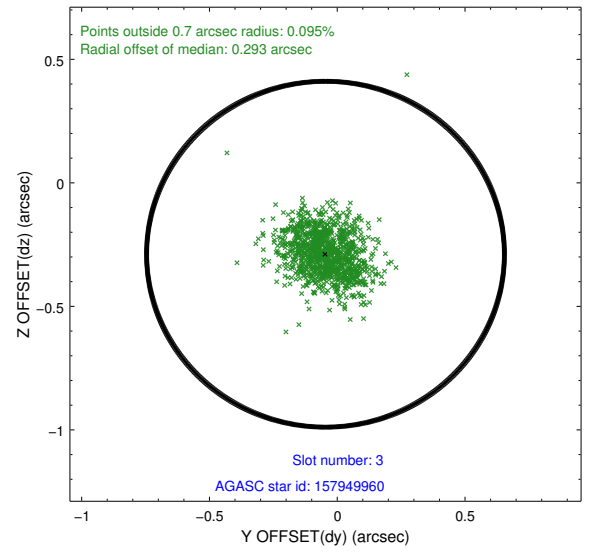
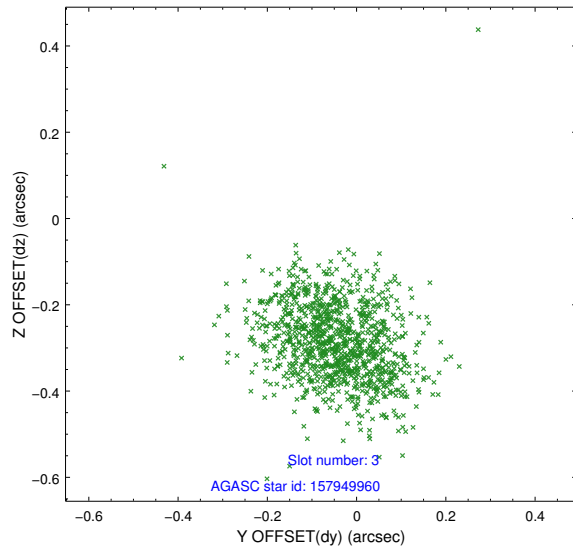
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	526	-0.033	0.076	0.007	0.012	0.000000	0.000000	923.16	-842.49
1	FID	ACIS-I-2	6.94	525	-0.069	-0.045	0.007	0.012	0.000000	0.000000	-769.29	-850.57
2	FID	ACIS-I-6	7.03	526	0.011	0.036	0.006	0.012	0.000000	0.000000	387.46	1697.75
3	GUIDE	157949960	9.83	1052	-0.046	-0.289	0.135	0.214	26.378832	16.266072	2200.69	1062.94
4	GUIDE	158073512	9.35	1052	-0.024	0.054	0.122	0.203	26.962712	16.455768	2207.68	-1065.03
5	GUIDE	158074376	8.71	1049	0.038	0.123	0.098	0.151	27.130230	16.318477	1555.75	-1458.74
6	GUIDE	158080256	7.87	1052	0.031	0.115	0.074	0.114	27.227304	16.377465	1650.47	-1844.64
7	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

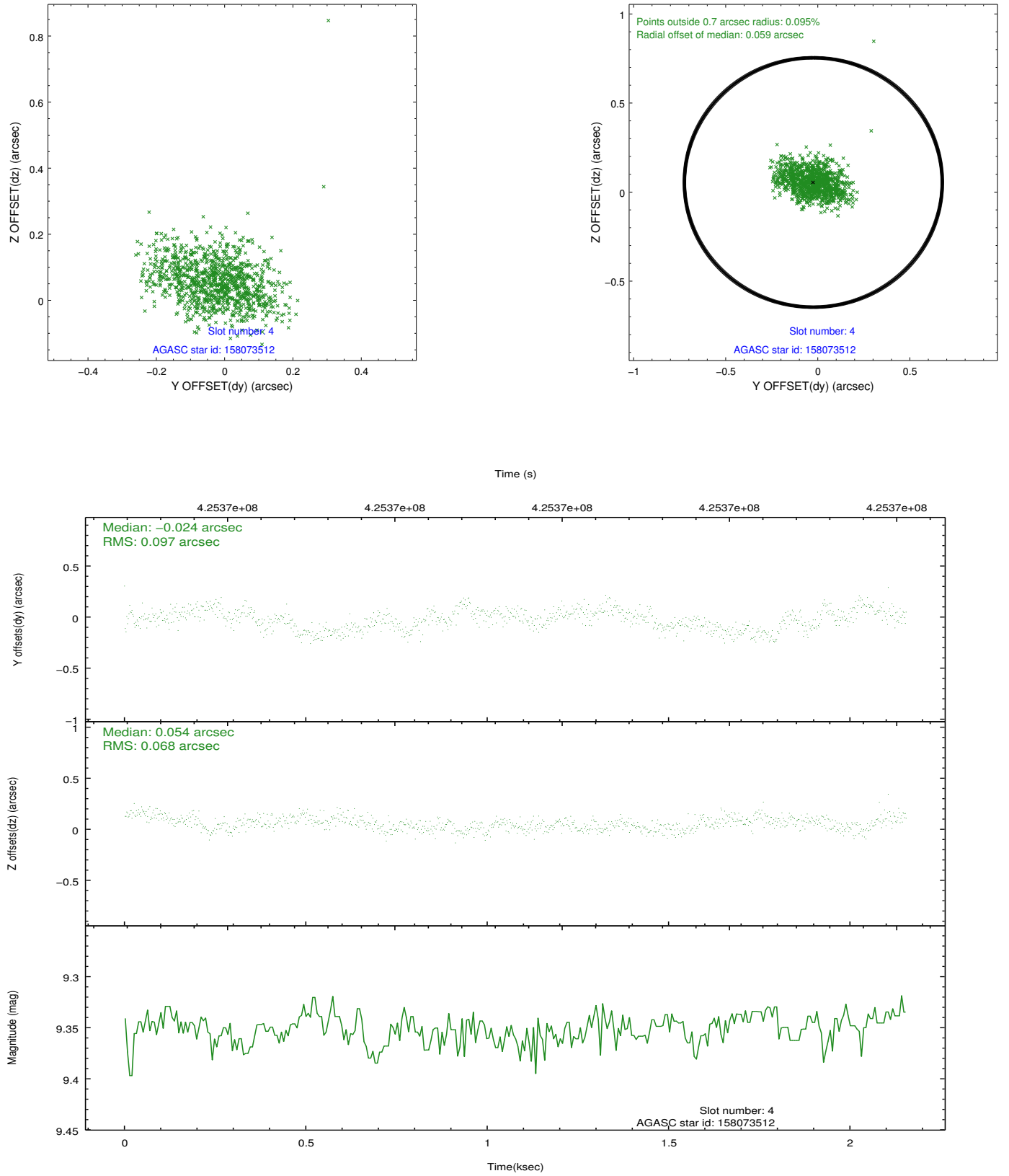


## 2.4 Star Slots

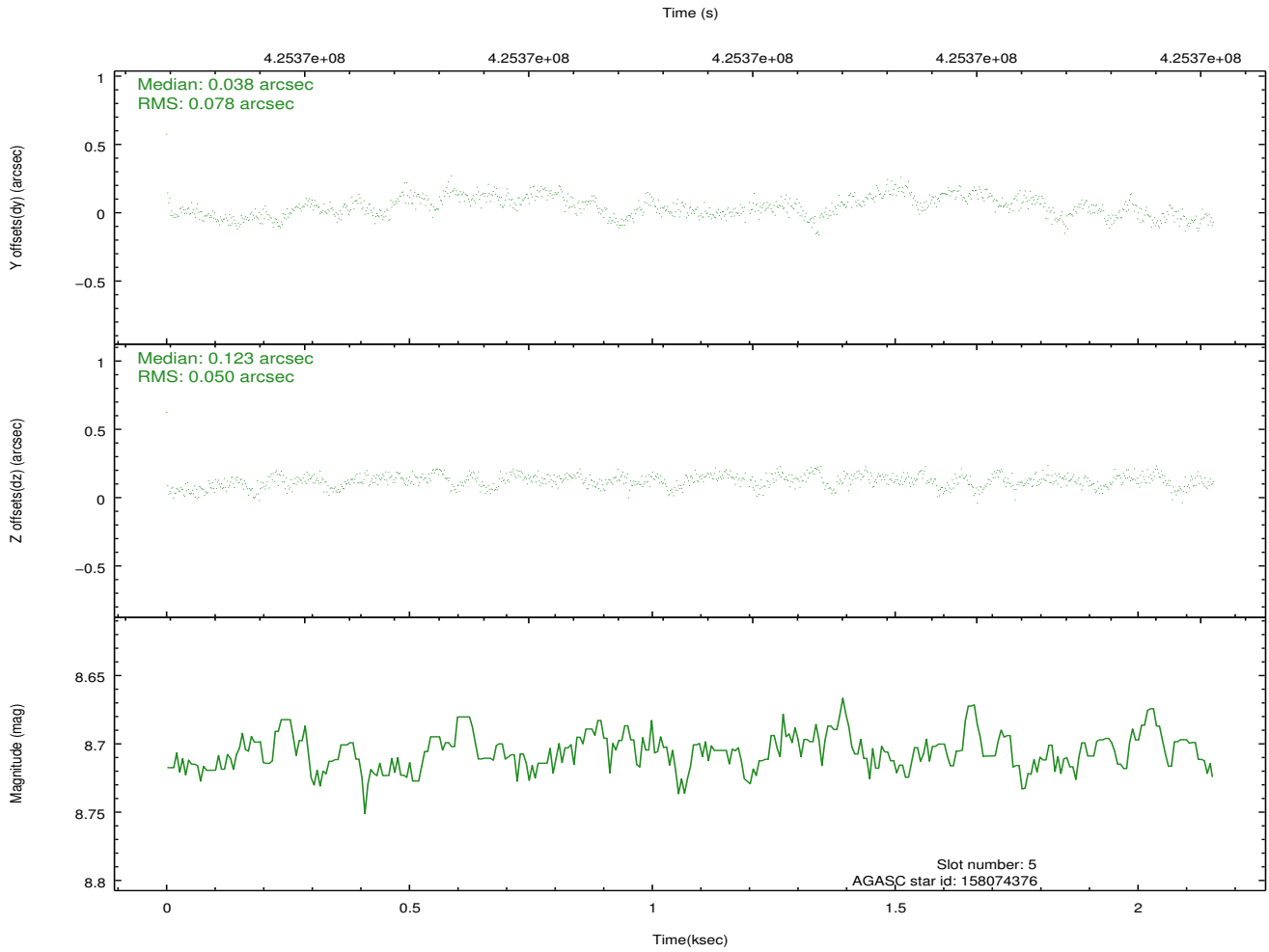
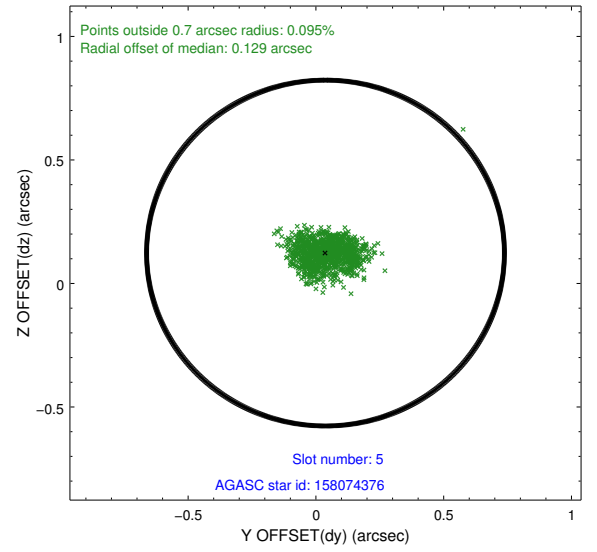
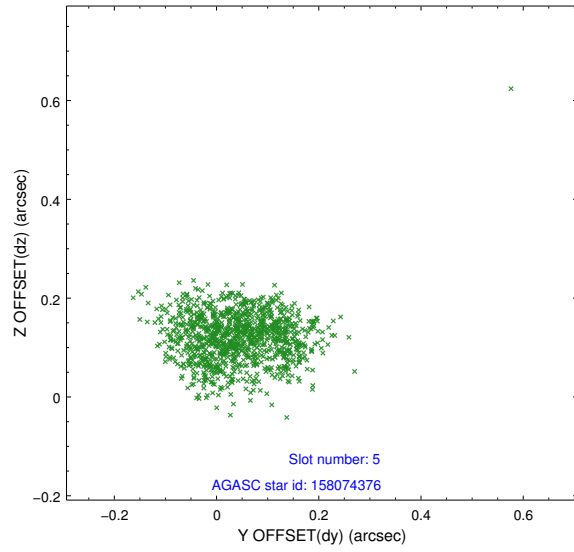
### 2.4.1 Slot 3



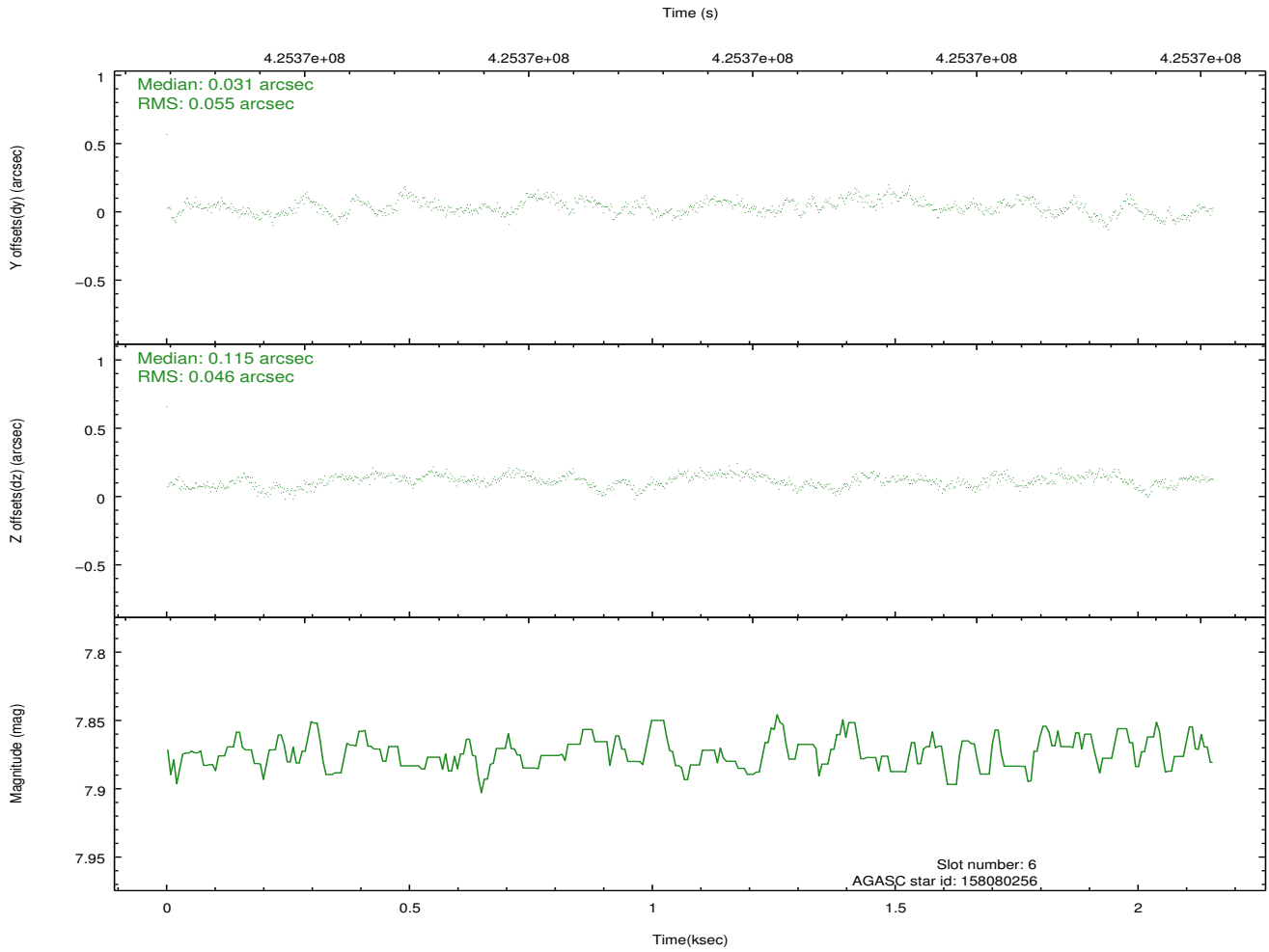
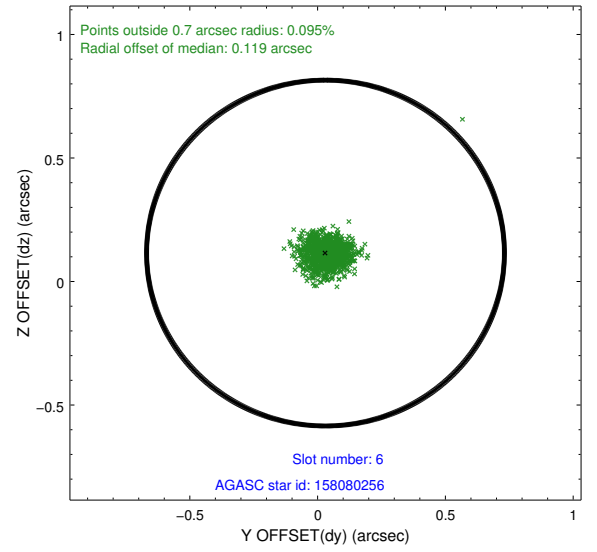
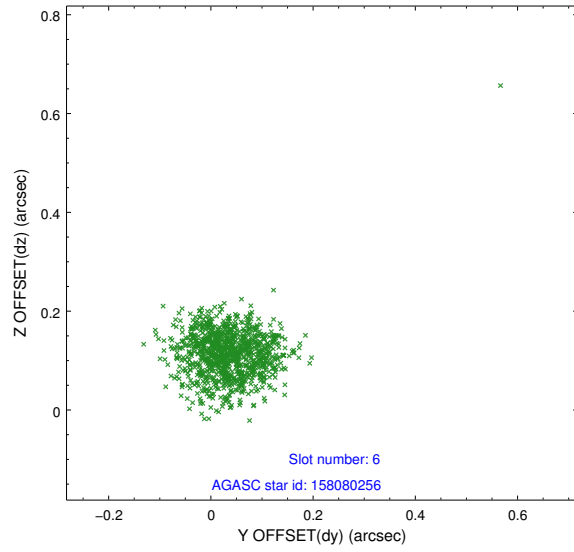
## 2.4.2 Slot 4



### 2.4.3 Slot 5

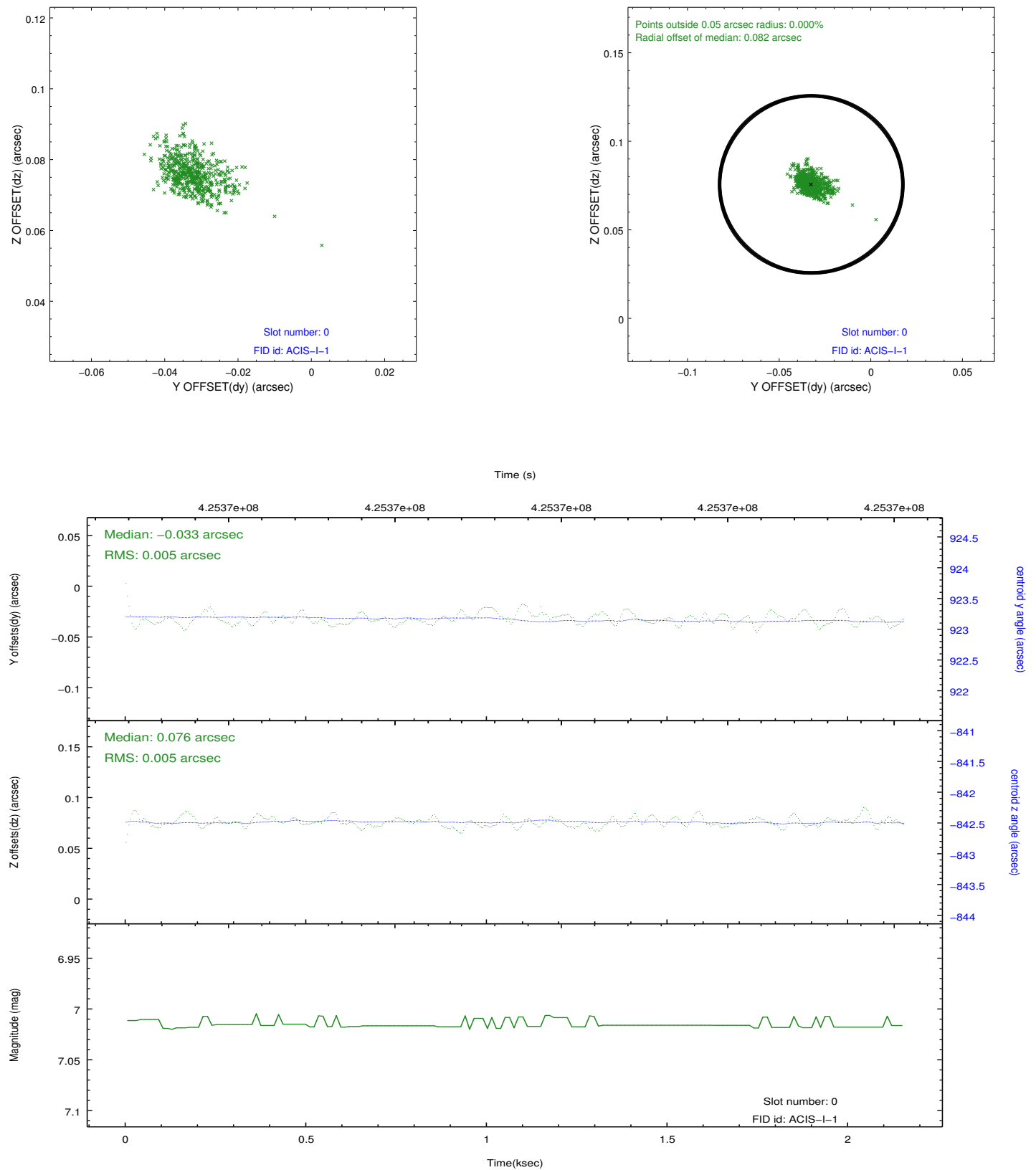


## 2.4.4 Slot 6

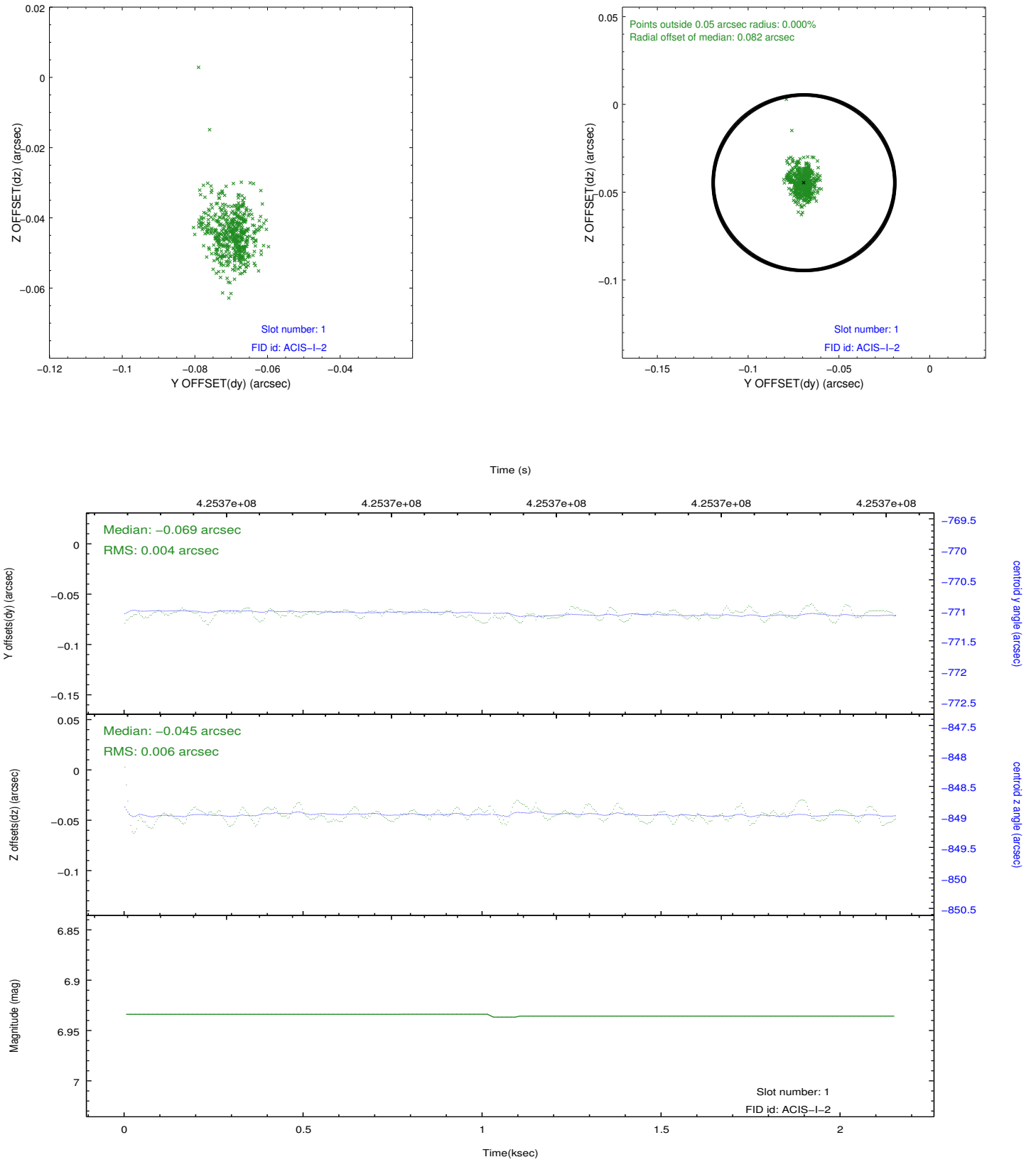


## 2.5 FID Slots

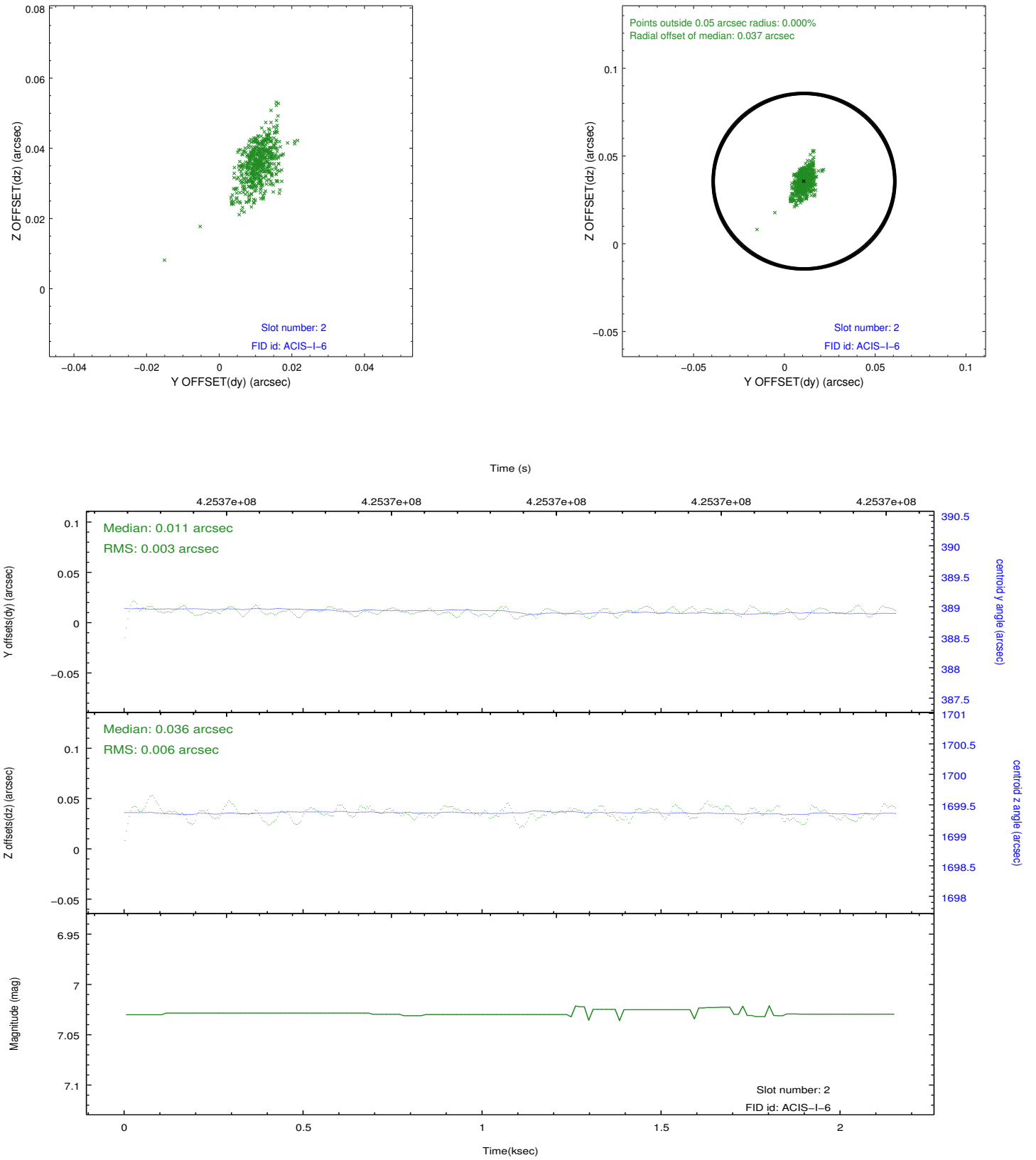
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.0602481037974

### A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.