

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 16272 - L2 Version 1  
Chandra X-Ray Center

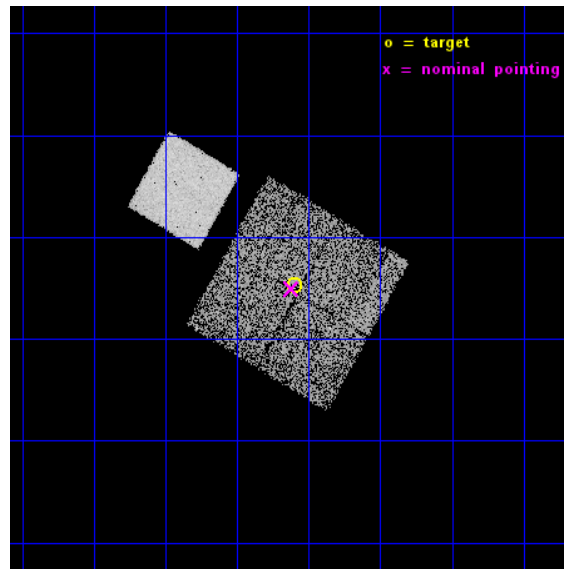
L2 Processing Date : Jan 21 2015

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# 1 Front

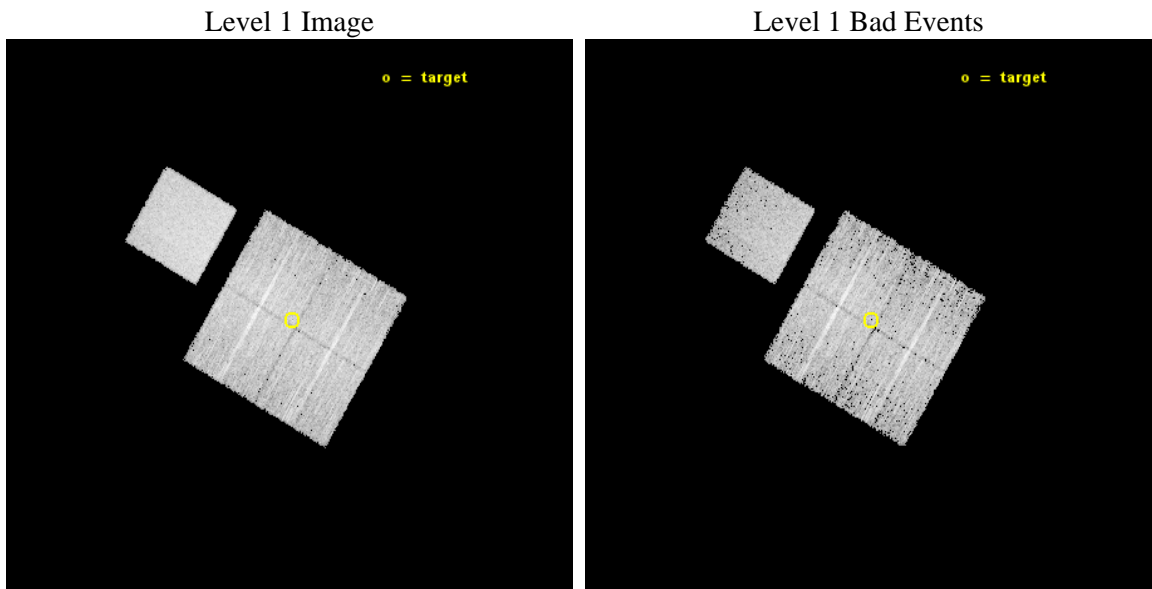
seq_num	703016	Sequence number
obs_id	16272	Observation id
title	X-ray Properties of Selected SDSS Stripe 82 Red Quasars	Proposal t
observer	Dr. Stephen Murray	Principal investigator
object	J235535.83-011444.1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	358.899167	Observer's specified target RA [deg]
dec_targ	-1.245583	Observer's specified target Dec [deg]
ra_nom	358.90519913997	Nominal RA [deg]
dec_nom	-1.2510686010137	Nominal Dec [deg]
roll_nom	300.20883085595	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9067.5000698566	Sum of GTIs [s]
livetime	8949.0265060475	Livetime [s]
ontime0	9067.5000698566	Sum of GTIs [s]
ontime1	9067.5000698566	Sum of GTIs [s]
ontime2	9067.5000698566	Sum of GTIs [s]
ontime3	9067.5000698566	Sum of GTIs [s]
ontime7	9067.5000698566	Sum of GTIs [s]
l2events	44473	Number of level 2 events



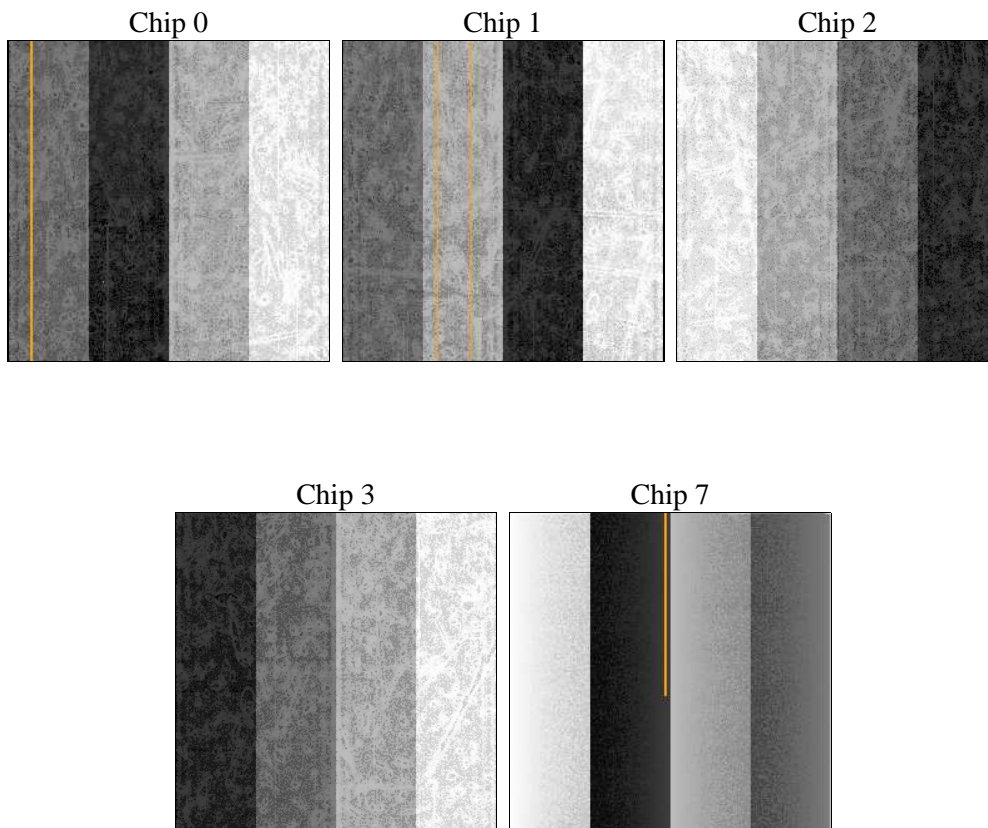
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	9067.5000698566	Sum of GTIs [s]
caldsver	4.6.6	&#160	ontime0	9067.5000698566	Sum of GTIs [s]
date	2015-01-21T20:36:07	Date and time of file creation	ontime1	9067.5000698566	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	9067.5000698566	Sum of GTIs [s]
			ontime3	9067.5000698566	Sum of GTIs [s]
			ontime7	9067.5000698566	Sum of GTIs [s]
			l1events	234295	Number of level 1 events

### 2.1.4 Events

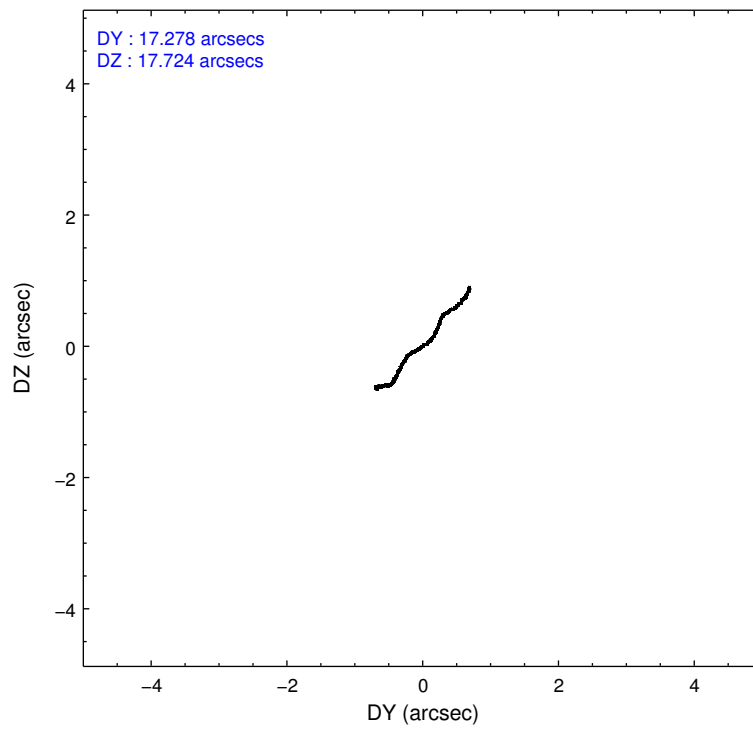
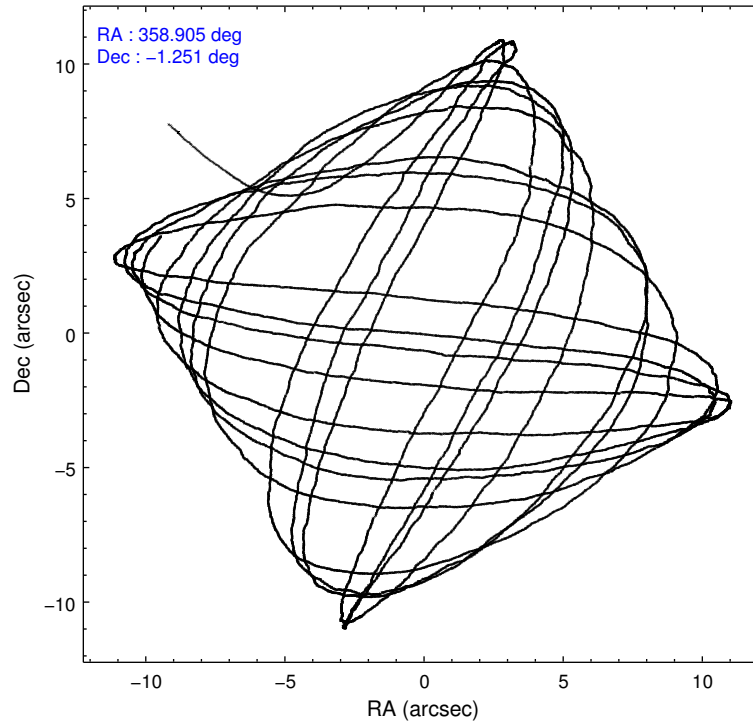
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	41308	42018	44292	45276	61401
rejected events	35891	35892	38920	40250	34539
rejected %	86%	85%	87%	88%	56%

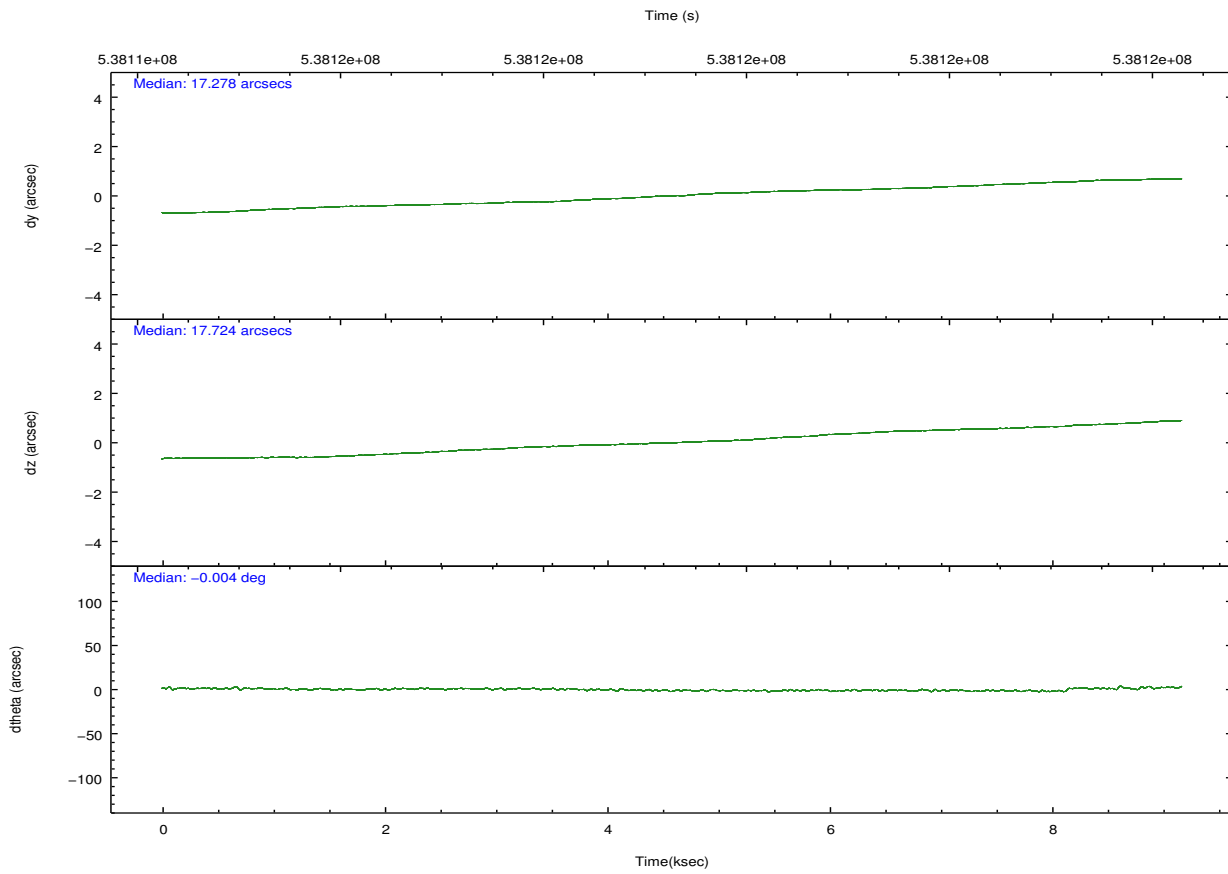
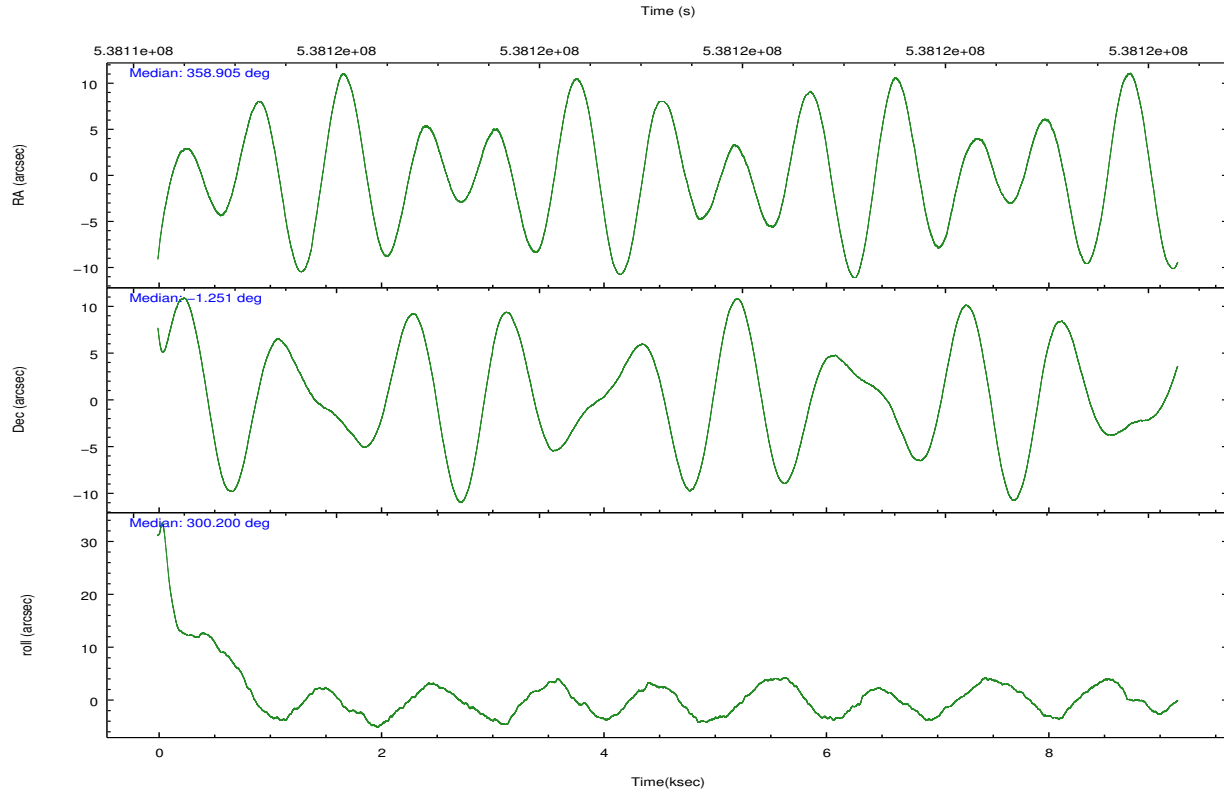
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1834	2092	1883	1697	2384
	4%	4%	4%	3%	3%
grade 1 events	25	19	23	24	88
	0%	0%	0%	0%	0%
grade 2 events	1355	1526	1296	1175	5508
	3%	3%	2%	2%	8%
grade 3 events	571	569	566	558	2298
	1%	1%	1%	1%	3%
grade 4 events	503	605	559	552	2167
	1%	1%	1%	1%	3%
grade 5 events	2227	2309	2069	2359	6259
	5%	5%	4%	5%	10%
grade 6 events	1155	1334	1068	1046	14512
	2%	3%	2%	2%	23%
grade 7 events	33638	33564	36828	37865	28185
	81%	79%	83%	83%	45%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	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	358.881202	358.9051991399735	CCD I2 on	Y	Y
[deg] Pointing Dec	-1.237474	-1.251068601013711	CCD I3 on	Y	Y
[deg] Pointing Roll	299.999619	300.2088308559511	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	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	538114846.184000	538113525.33187	CCD S5 on	N	N
Observation start date	2015-01-20T04:19:39	2015-01-20T03:58:45	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	538123846.184000	538124115.63247	On-chip summing requested	N	N
Observation end date	2015-01-20T06:49:39	2015-01-20T06:55:15	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





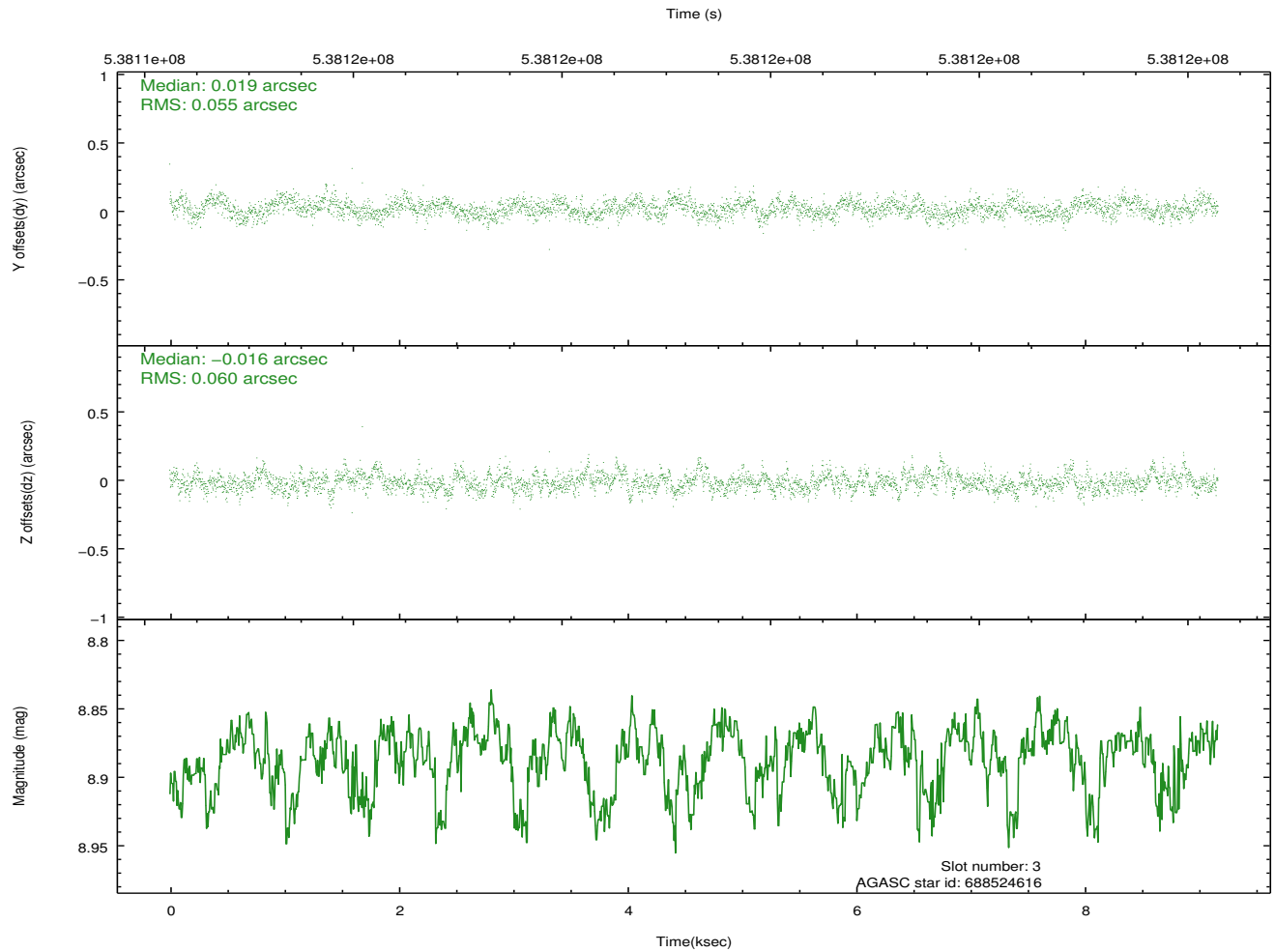
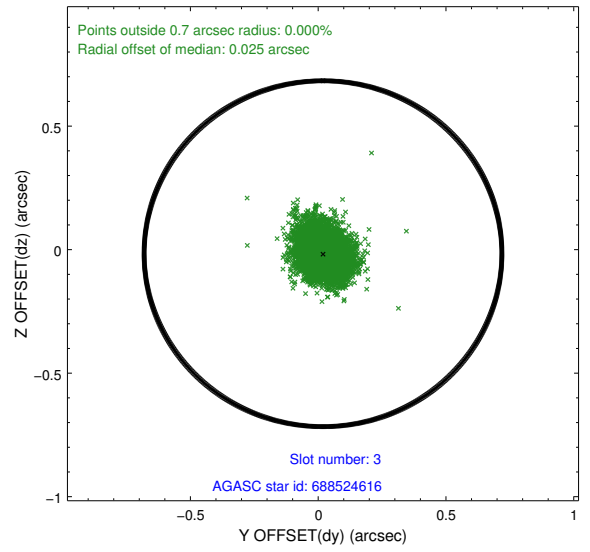
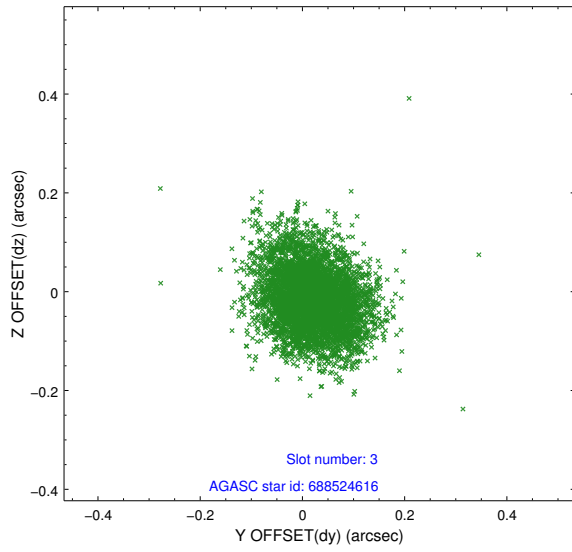
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	6.96	2237	-0.144	-0.106	0.015	0.039	0.000000	0.000000	-772.16	-847.94
1	FID		ACIS-I-4	6.98	2237	0.343	0.109	0.021	0.039	0.000000	0.000000	2142.03	1058.26
2	FID		ACIS-I-5	7.03	2236	-0.299	0.065	0.025	0.043	0.000000	0.000000	-1825.46	1056.59
3	GUIDE	used	688524616	8.88	4474	0.019	-0.016	0.085	0.140	358.823399	-1.572868	942.18	-783.54
4	GUIDE	used	688526336	9.66	4470	0.045	0.226	0.142	0.224	358.185662	-1.015243	-1943.46	-1768.69
5	GUIDE	used	688526568	8.81	4474	-0.035	-0.109	0.103	0.179	359.115698	-0.932325	-529.38	1279.86
6	GUIDE	used	688530528	6.92	4473	0.058	-0.063	0.084	0.135	358.661059	-1.946239	1814.50	-1961.34
7	GUIDE	used	688522368	9.58	4468	-0.079	-0.037	0.133	0.221	359.208550	-0.509657	-1679.55	2330.82

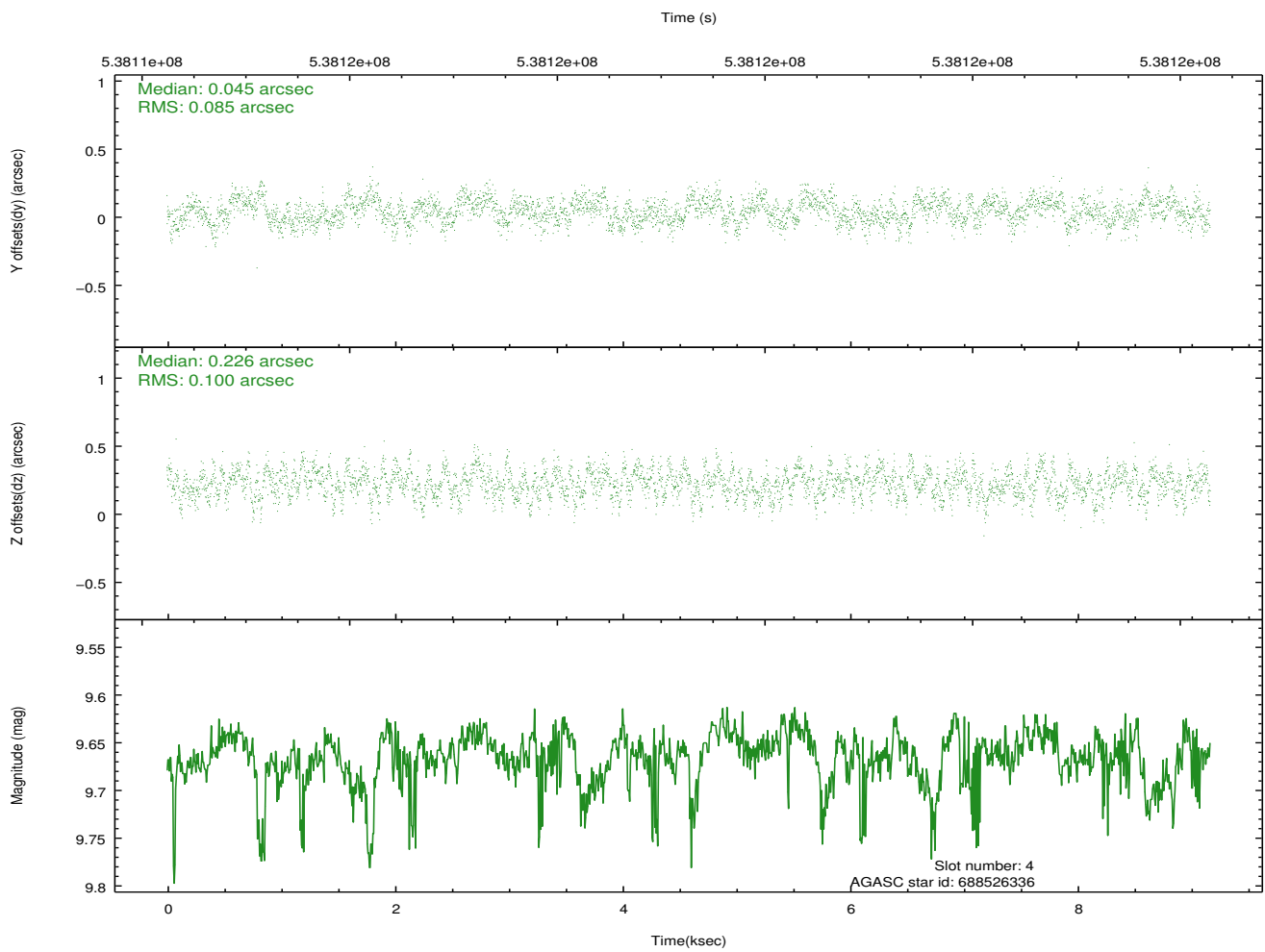
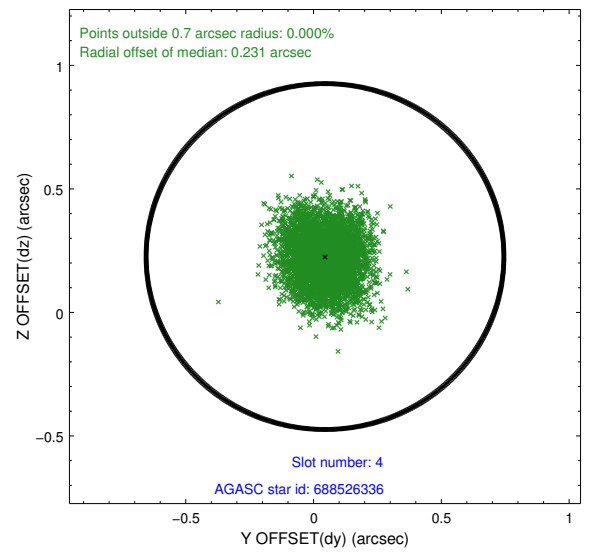
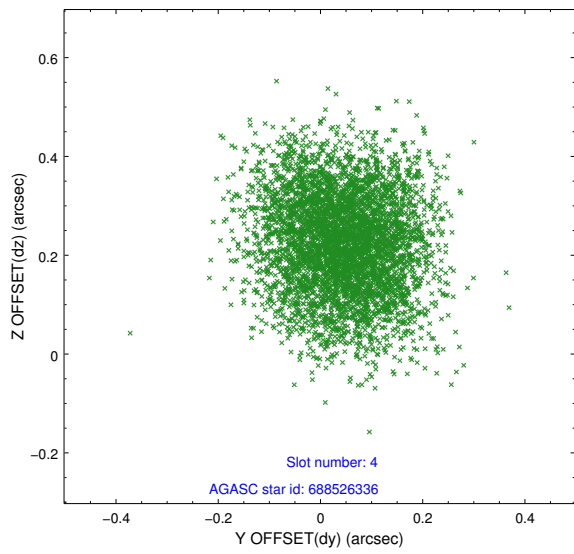
∞

## 2.4 Star Slots

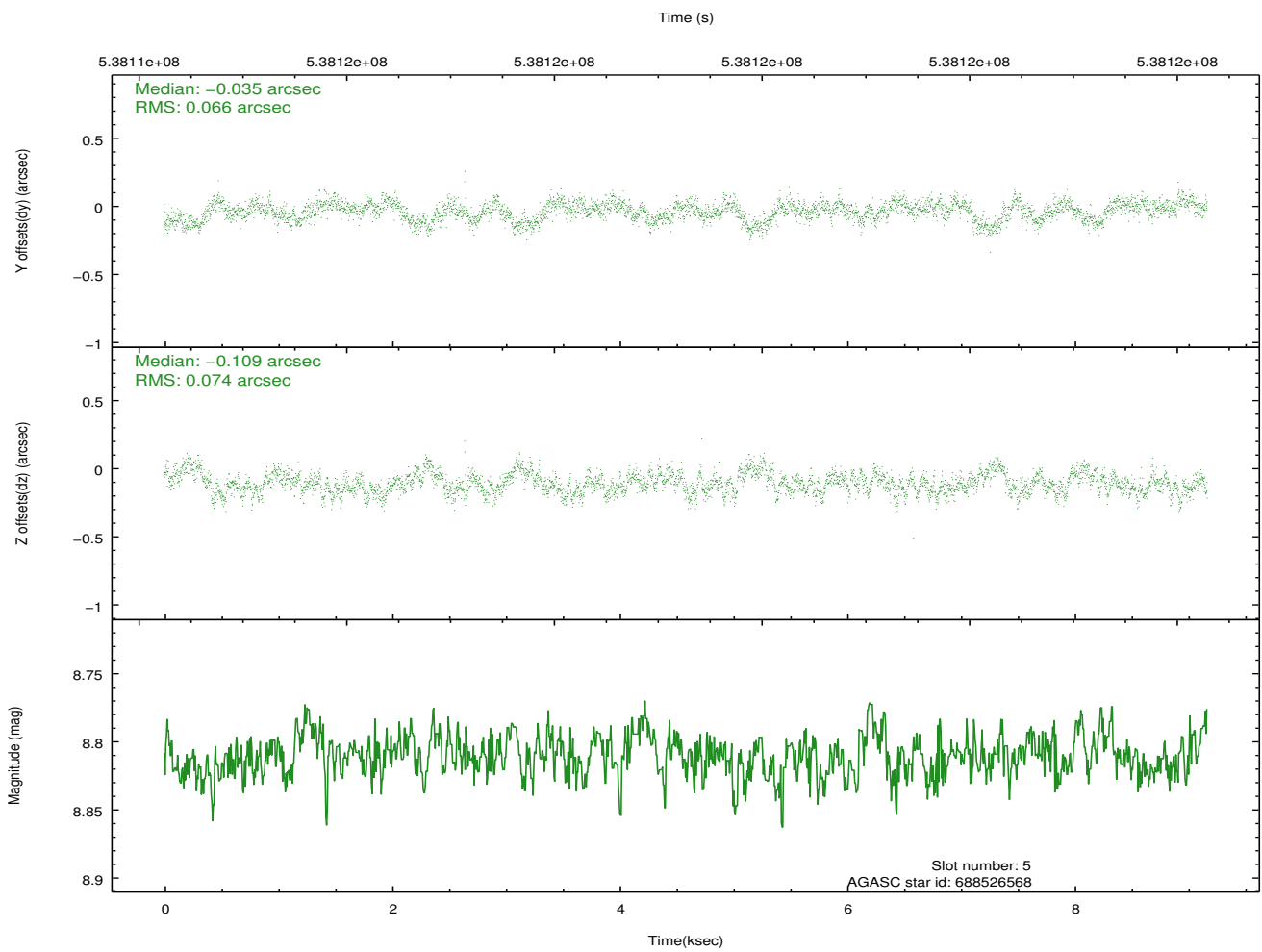
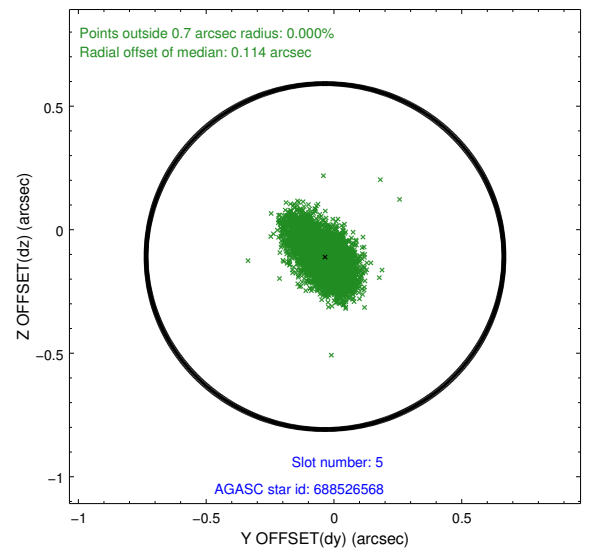
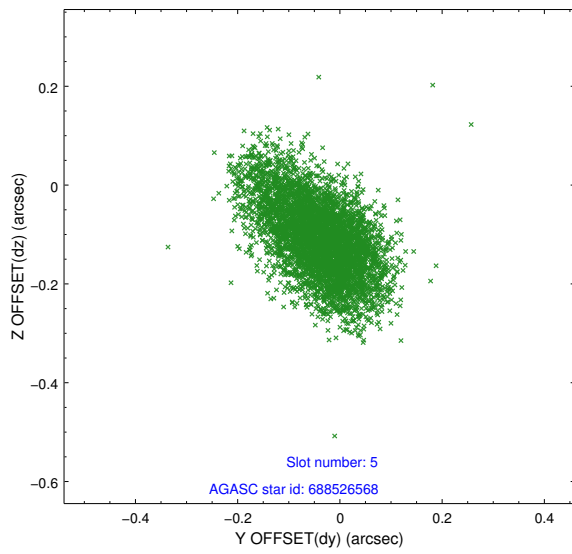
### 2.4.1 Slot 3



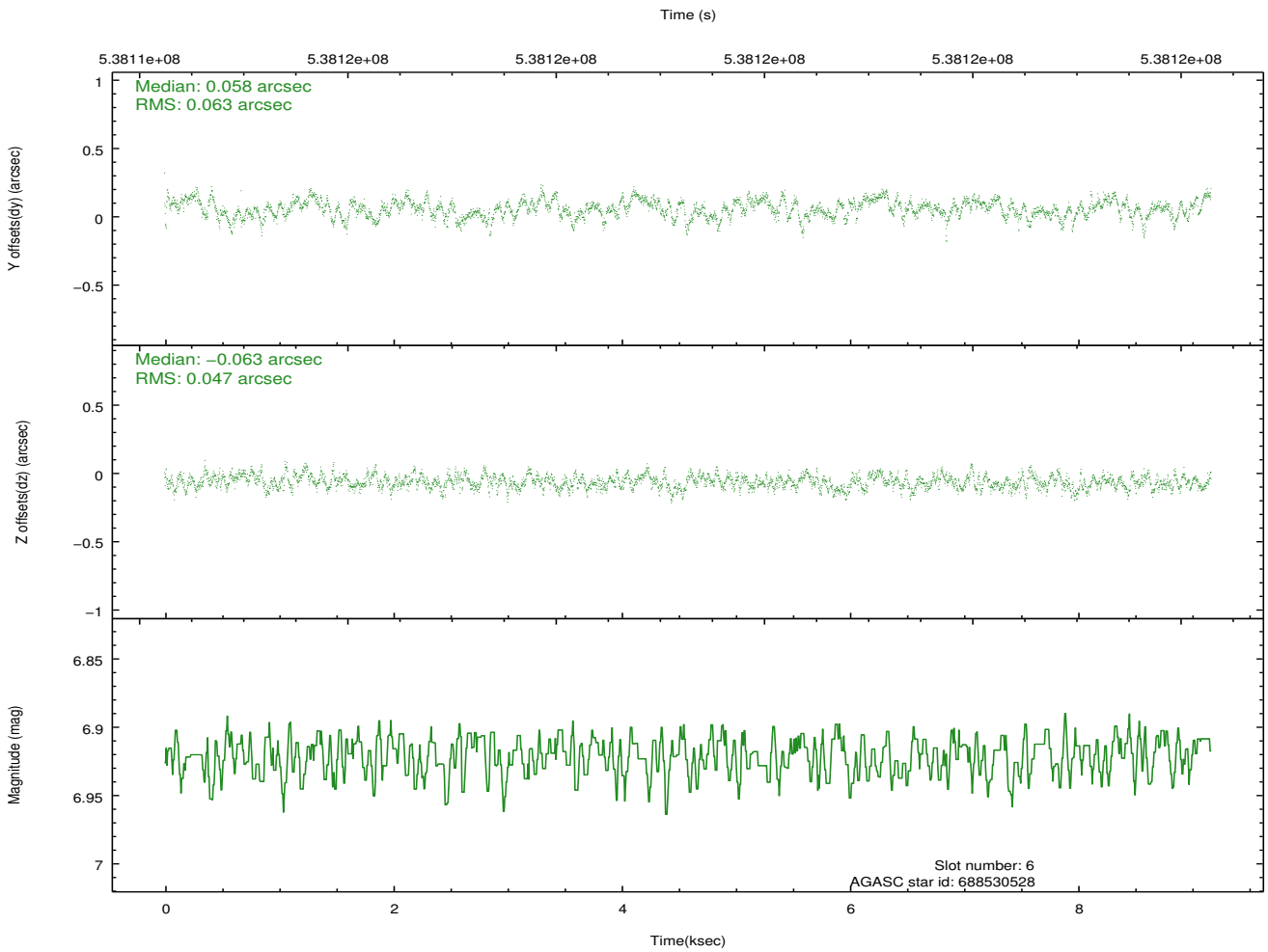
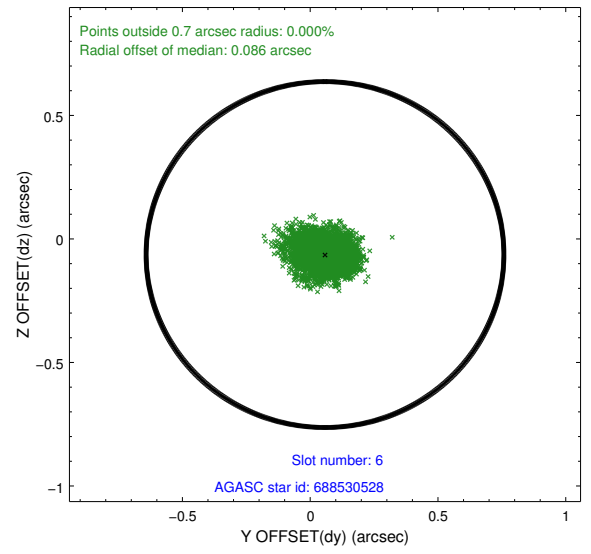
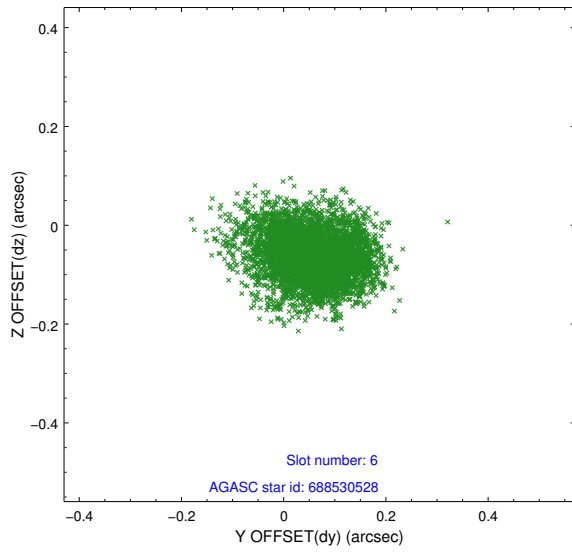
## 2.4.2 Slot 4



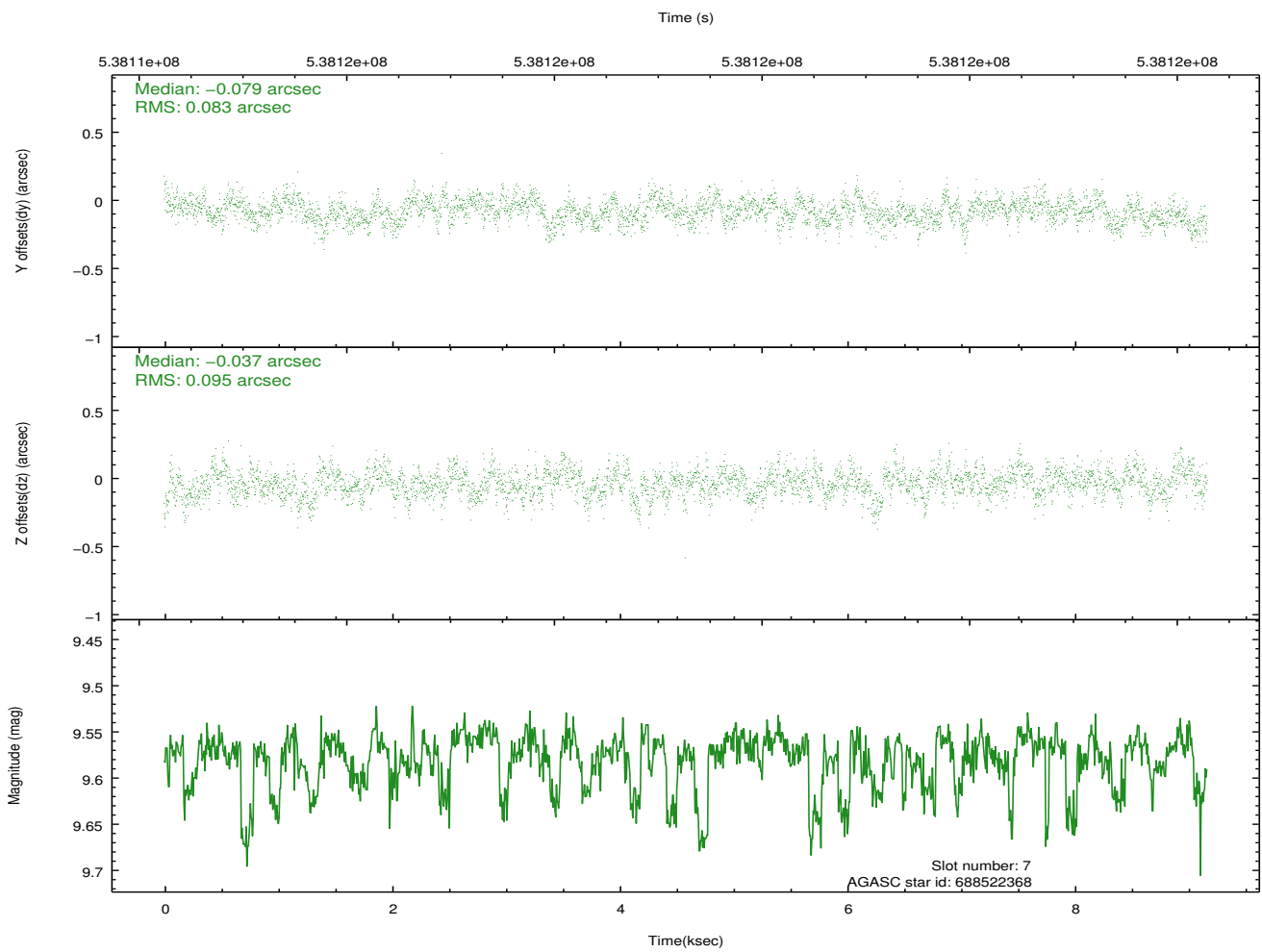
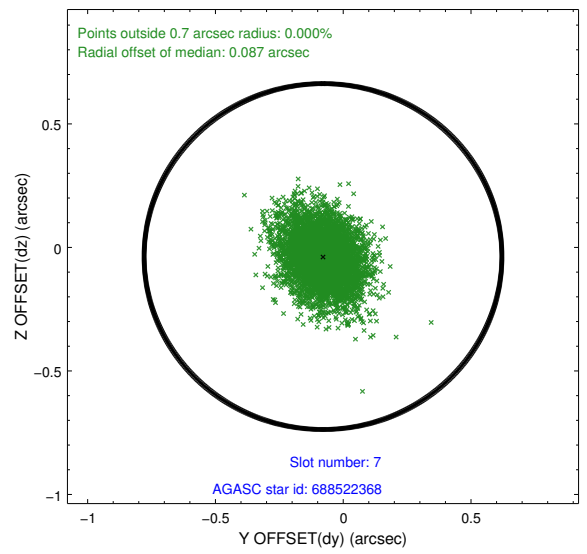
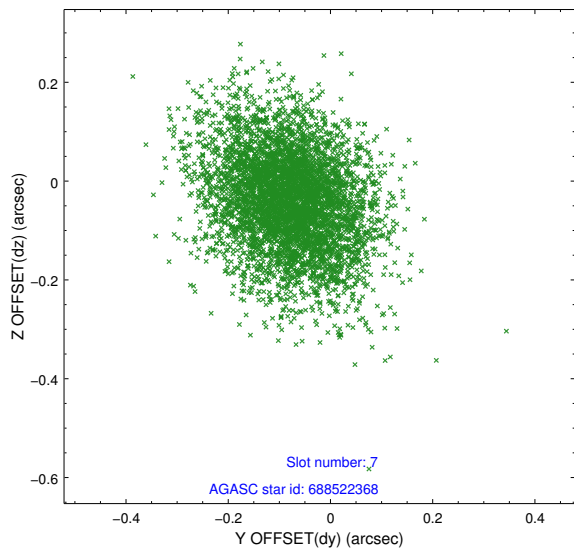
### 2.4.3 Slot 5



## 2.4.4 Slot 6

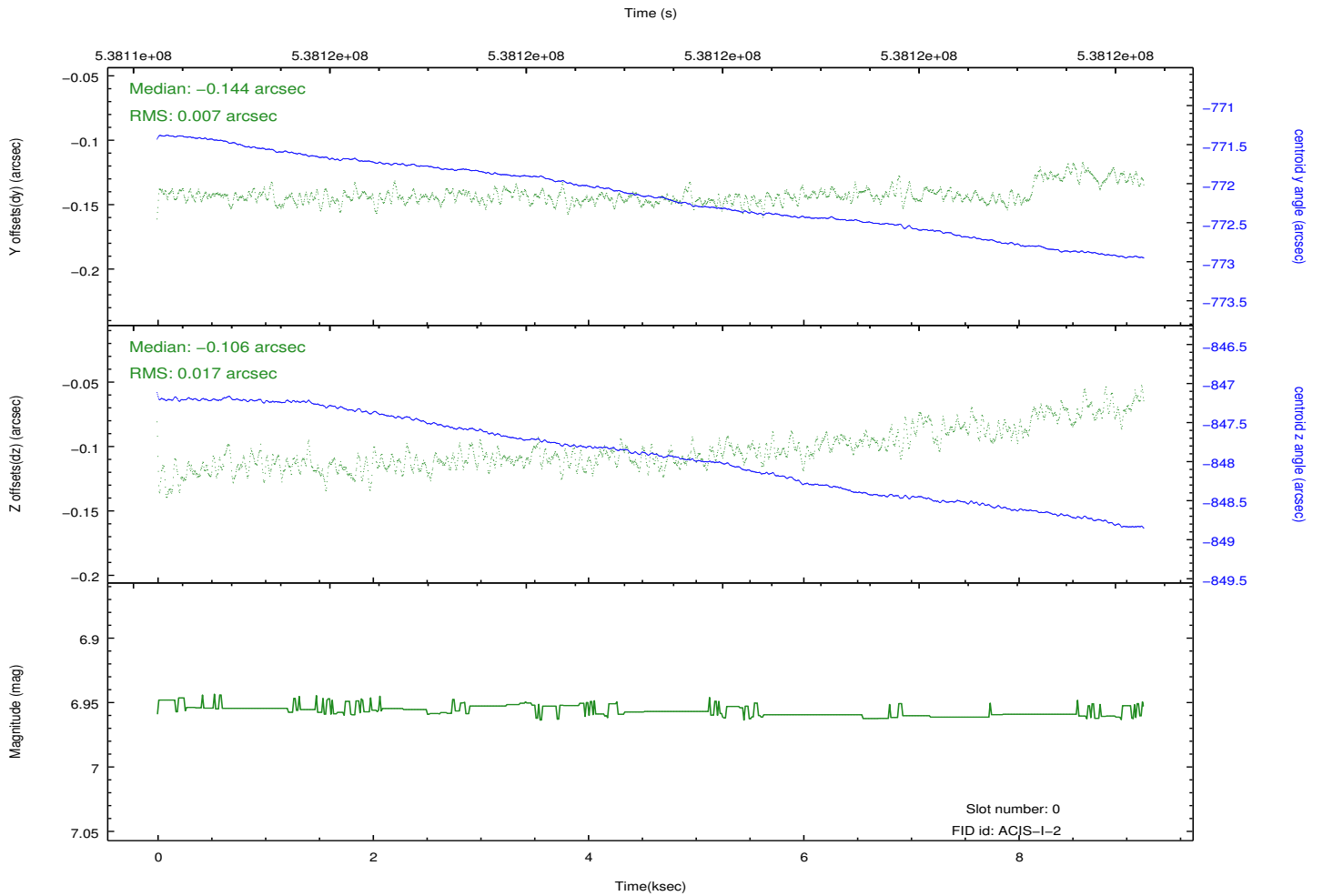
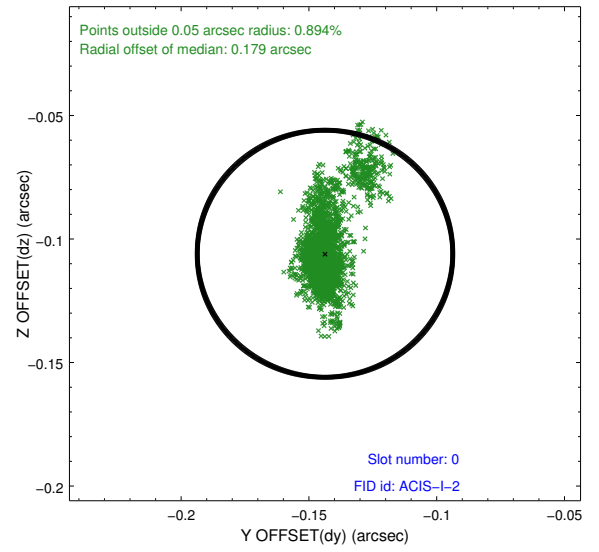
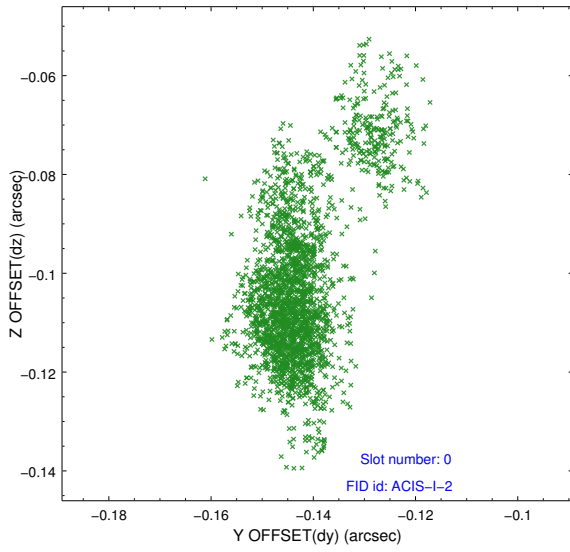


## 2.4.5 Slot 7

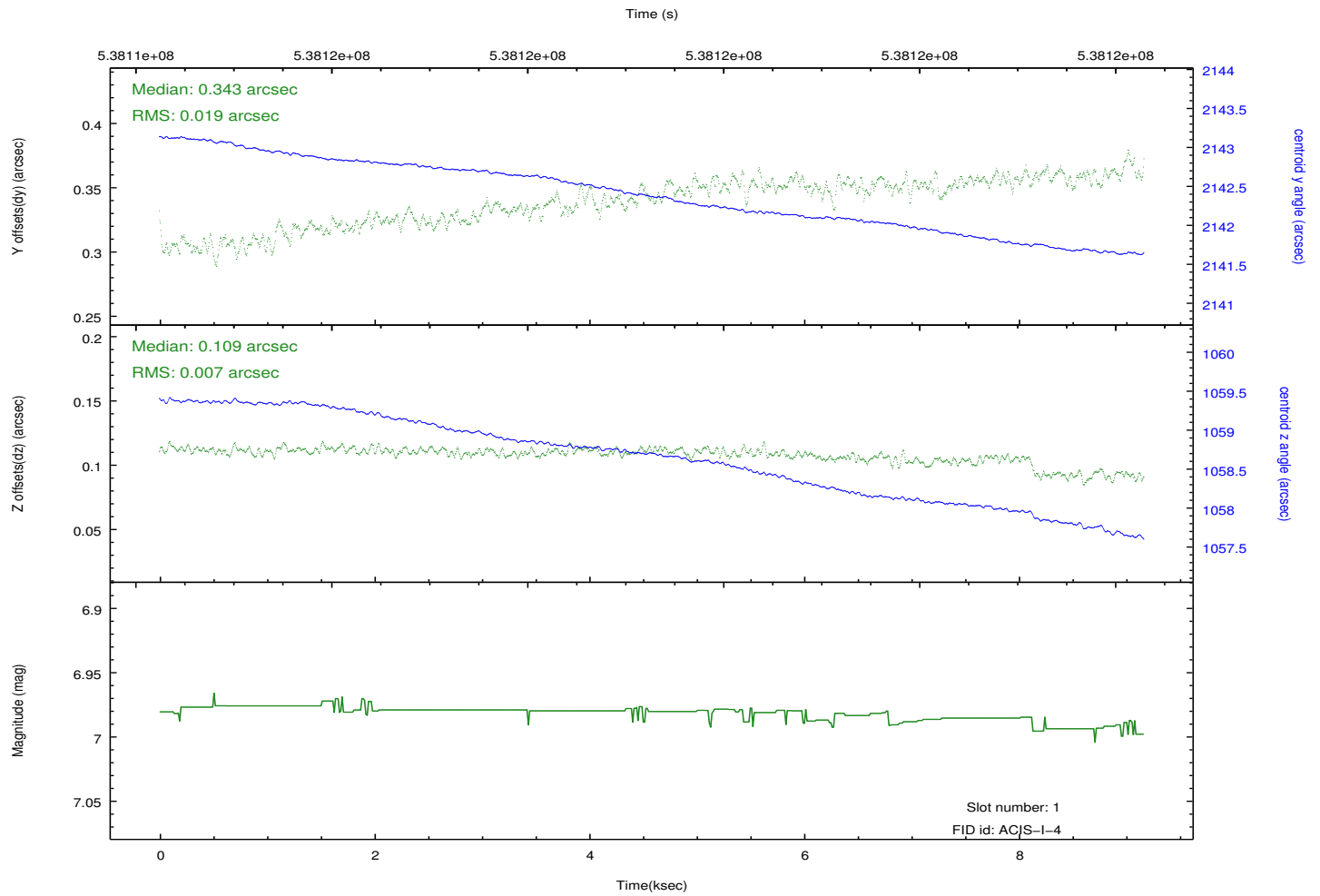
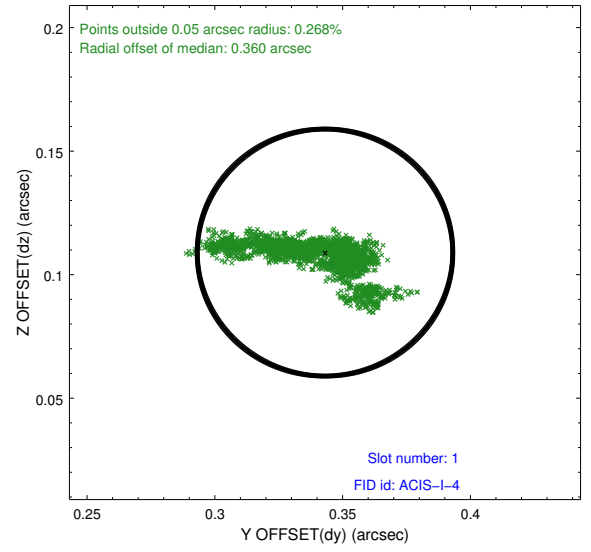
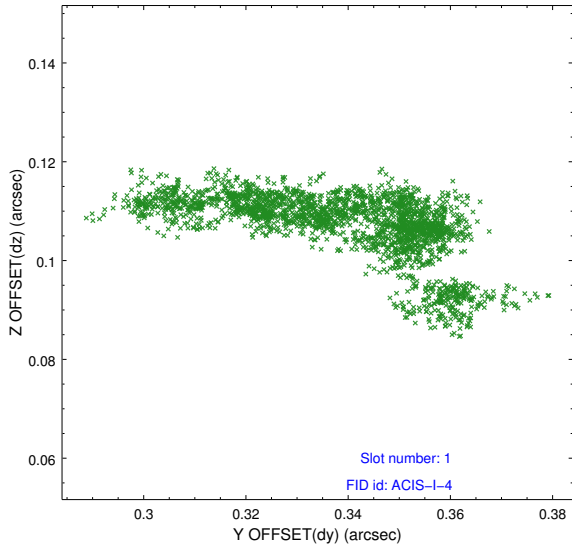


## 2.5 FID Slots

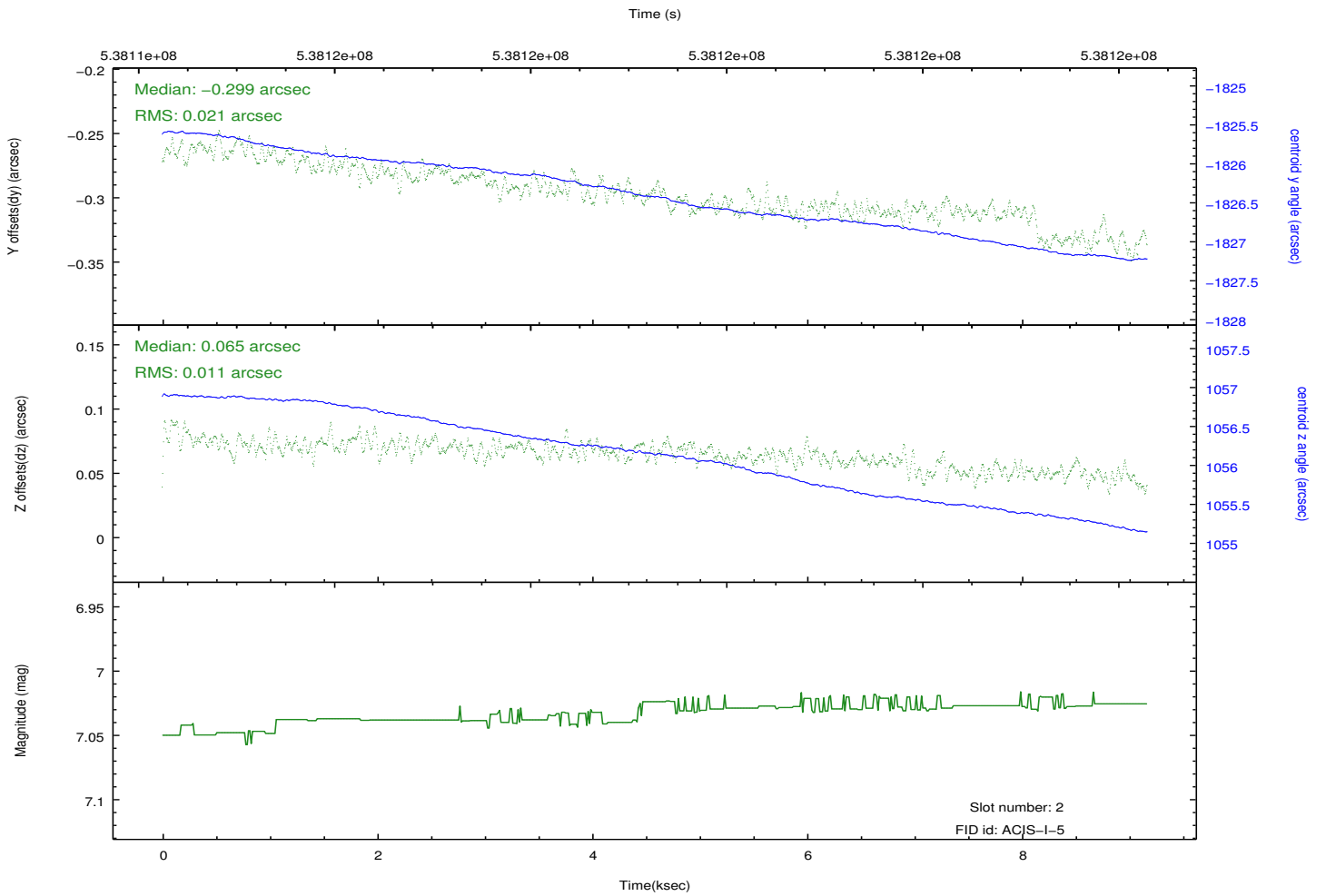
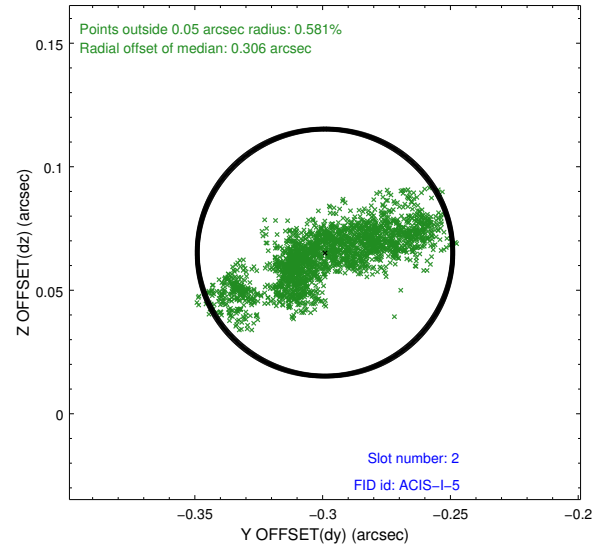
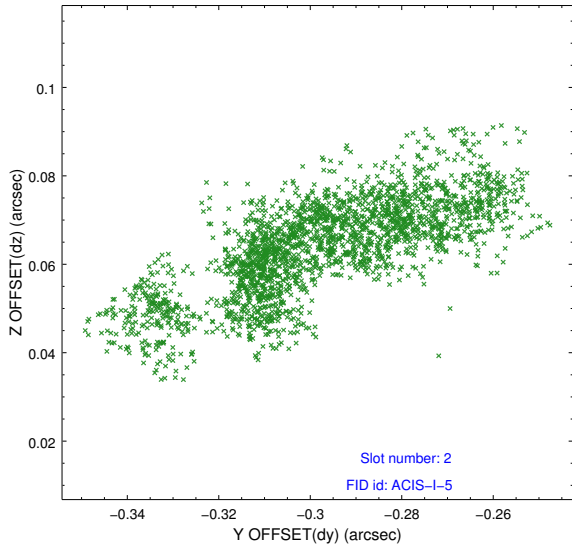
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.01.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.0675000698566

## A.2 Comments