

# V&V Reference Report

## L2 ASCDS Version : 10.3.1

Observation 17167 - L2 Version 1  
Chandra X-Ray Center

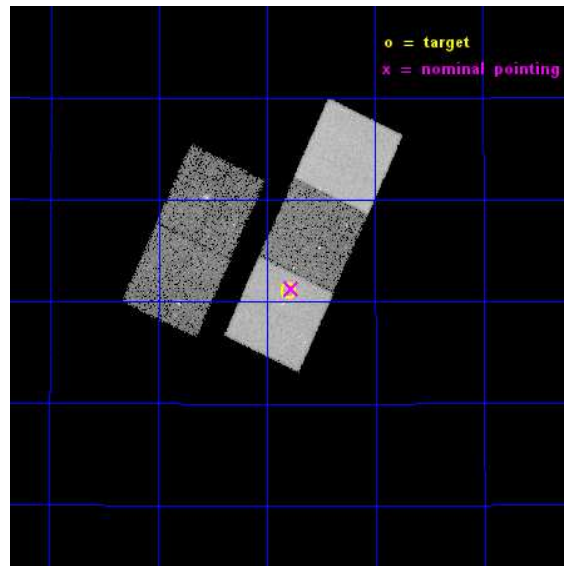
L2 Processing Date : Dec 15 2014

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# 1 Front

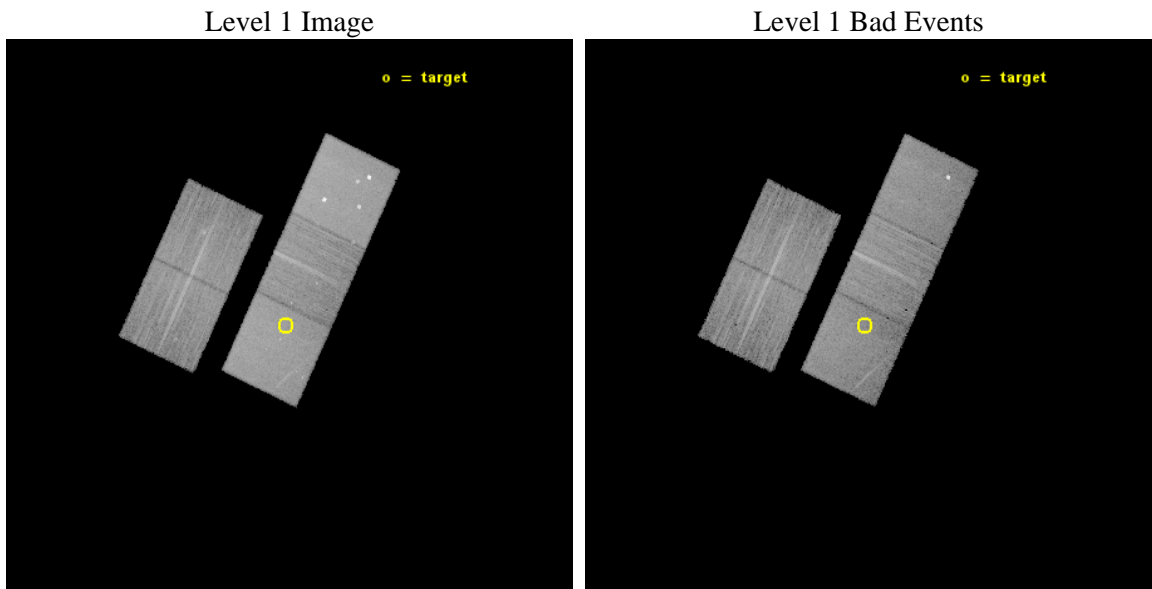
seq_num	801454	Sequence number
obs_id	17167	Observation id
title	An X-ray view of peculiar radio tails lacking optical counterparts in Abell 585	Proposal title
observer	Dr. Aurora Simionescu	Principal investigator
object	Abell 585	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	112.7	Observer's specified target RA [deg]
dec_targ	40.852778	Observer's specified target Dec [deg]
ra_nom	112.69354662242	Nominal RA [deg]
dec_nom	40.85515478073	Nominal Dec [deg]
roll_nom	115.07731841662	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20066.300154328	Sum of GTIs [s]
livetime	19804.119170217	Livetime [s]
ontime2	20060.018063843	Sum of GTIs [s]
ontime3	20063.159133852	Sum of GTIs [s]
ontime5	20066.300154328	Sum of GTIs [s]
ontime6	20066.300154328	Sum of GTIs [s]
ontime7	20066.300154328	Sum of GTIs [s]
l2events	174571	Number of level 2 events



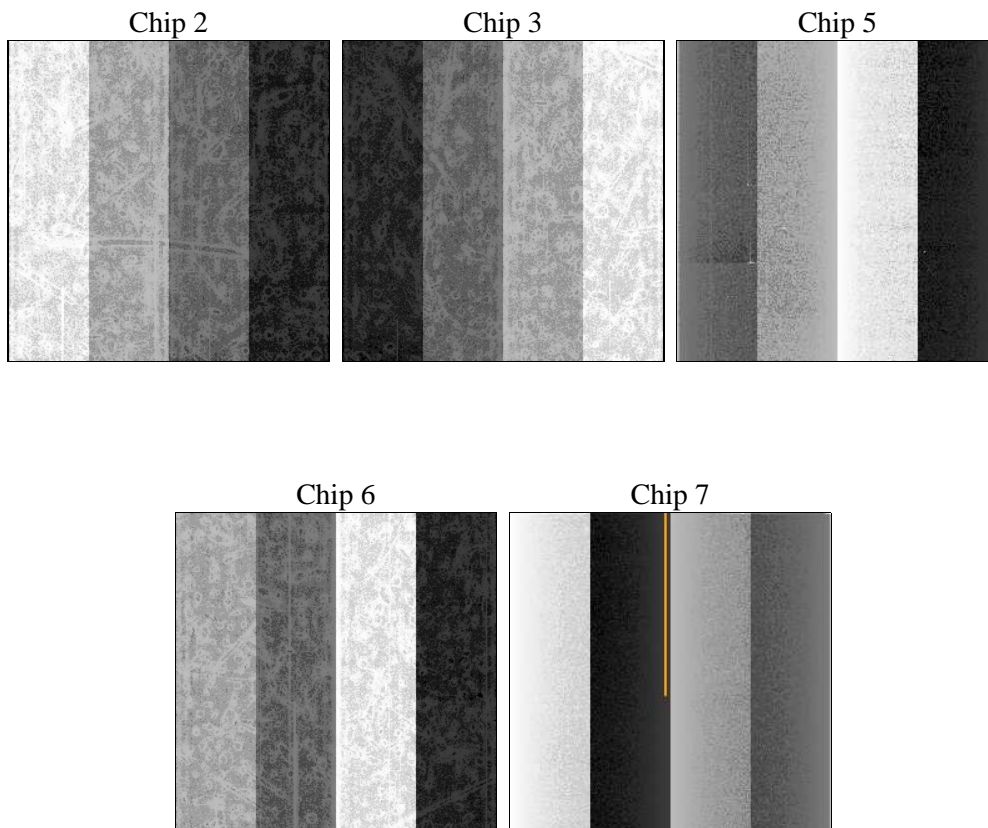
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	20066.300154328	Sum of GTIs [s]
caldbver	4.6.4	&#160	ontime2	20060.018063843	Sum of GTIs [s]
date	2014-12-15T15:55:07	Date and time of file creation	ontime3	20063.159133852	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	20066.300154328	Sum of GTIs [s]
			ontime6	20066.300154328	Sum of GTIs [s]
			ontime7	20066.300154328	Sum of GTIs [s]
			l1events	642513	Number of level 1 events

### 2.1.4 Events

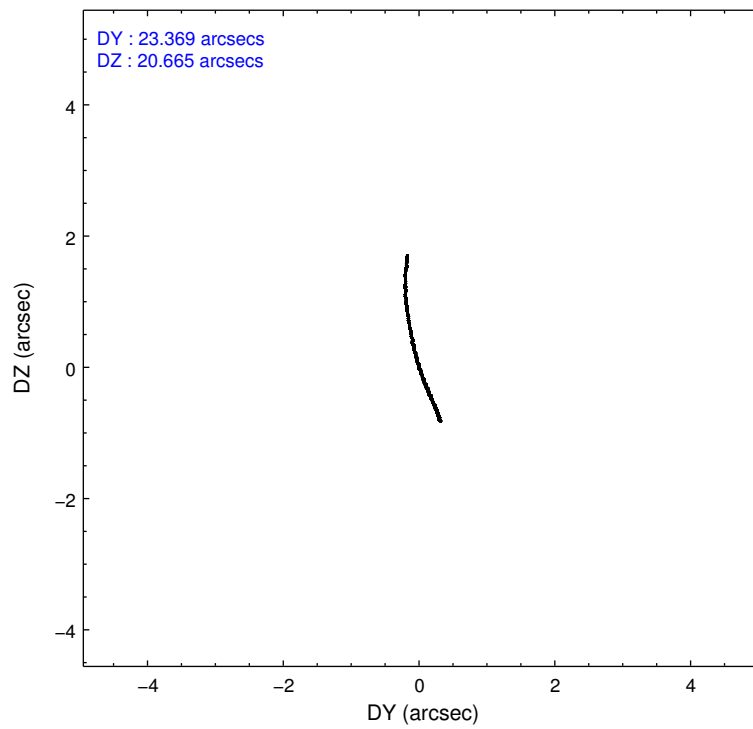
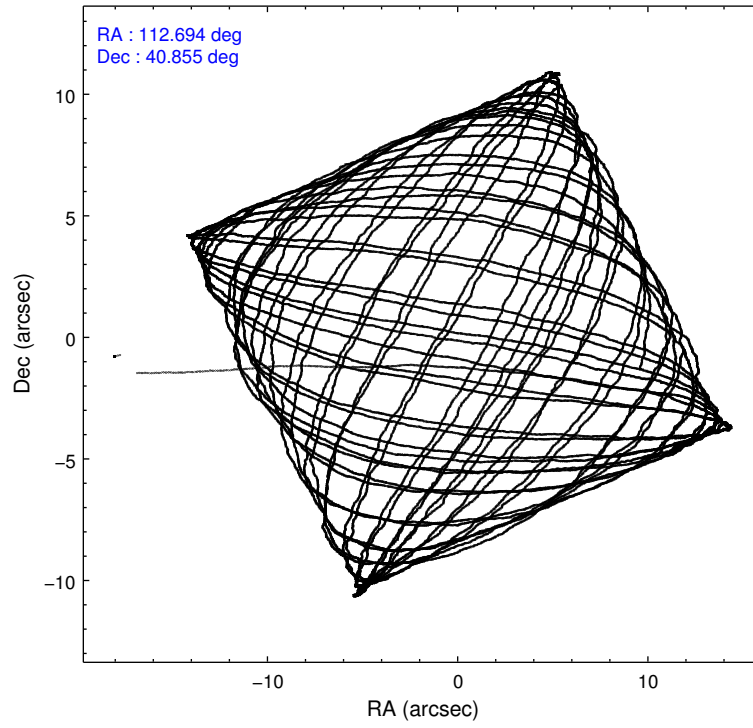
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	102206	99827	184873	110145	145462
rejected events	90104	88363	92449	96825	80979
rejected %	88%	88%	50%	87%	55%

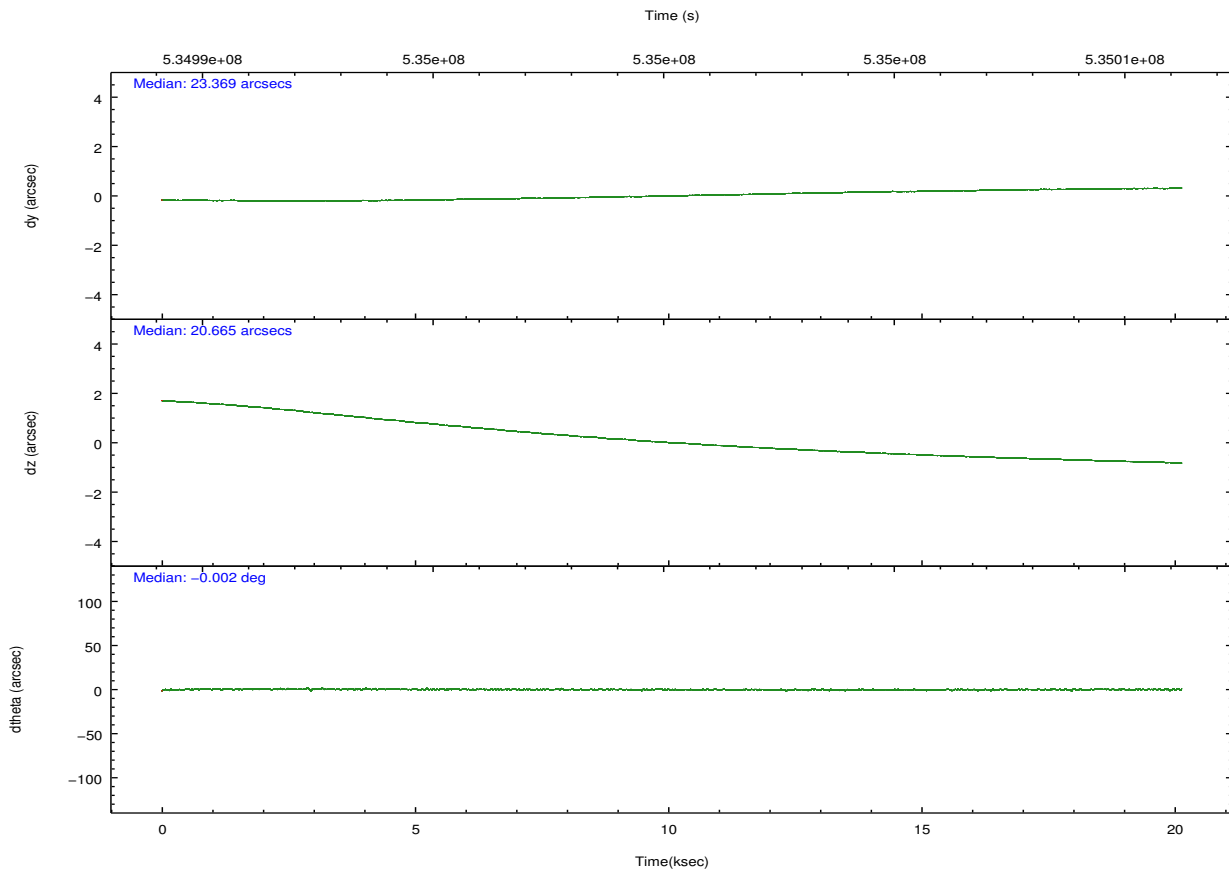
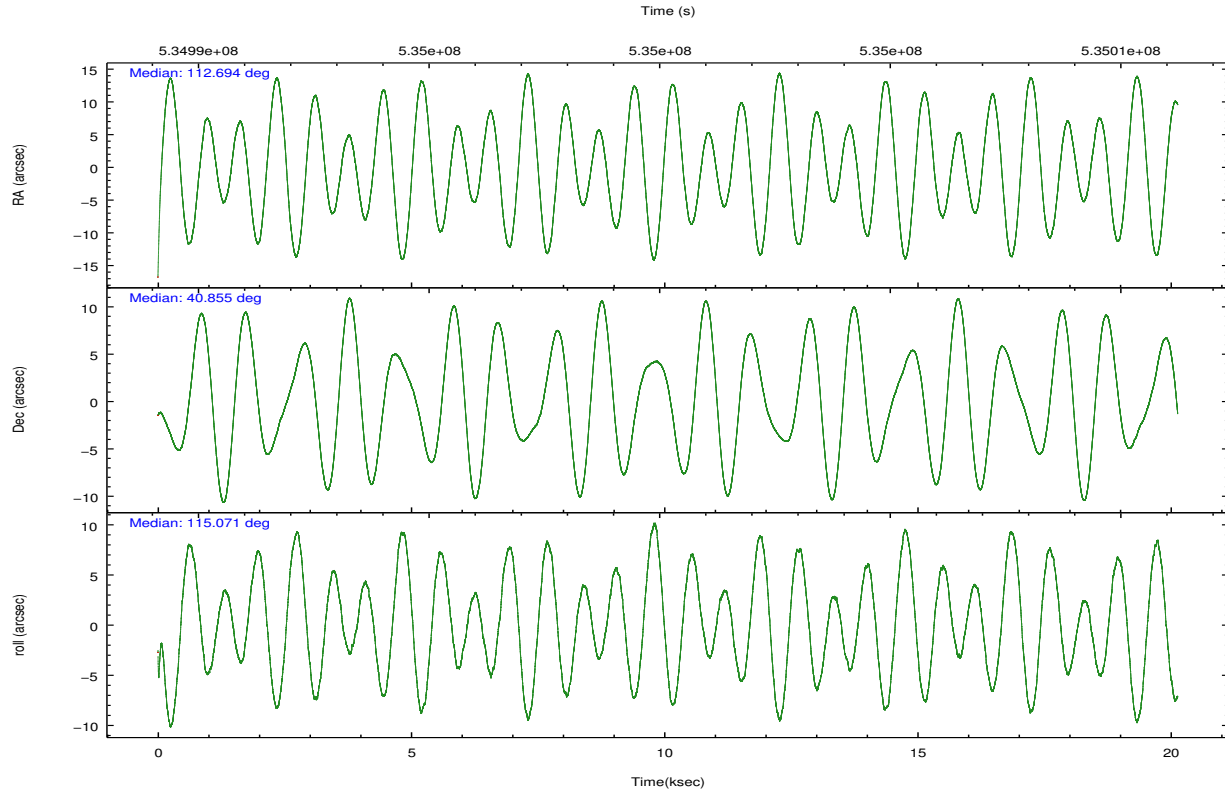
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	4452	4050	13449	4810	5913
	4%	4%	7%	4%	4%
grade 1 events	52	69	305	55	175
	0%	0%	0%	0%	0%
grade 2 events	2951	2578	27865	3040	13569
	2%	2%	15%	2%	9%
grade 3 events	1157	1273	2784	1299	5426
	1%	1%	1%	1%	3%
grade 4 events	1233	1197	2789	1245	5585
	1%	1%	1%	1%	3%
grade 5 events	4527	5401	13052	5565	14350
	4%	5%	7%	5%	9%
grade 6 events	2310	2368	45558	2927	33998
	2%	2%	24%	2%	23%
grade 7 events	85524	82891	79071	91204	66446
	83%	83%	42%	82%	45%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	112.723552	112.6935466224225	CCD I2 on	O1	Y
[deg] Pointing Dec	40.839744	40.85515478072953	CCD I3 on	O2	Y
[deg] Pointing Roll	114.901075	115.0773184166184	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	534990240.184000	534989019.70761	CCD S5 on	N	N
Observation start date	2014-12-15T00:22:53	2014-12-15T00:03:39	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	535010240.184000	535011043.88384	On-chip summing requested	N	N
Observation end date	2014-12-15T05:56:13	2014-12-15T06:10:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





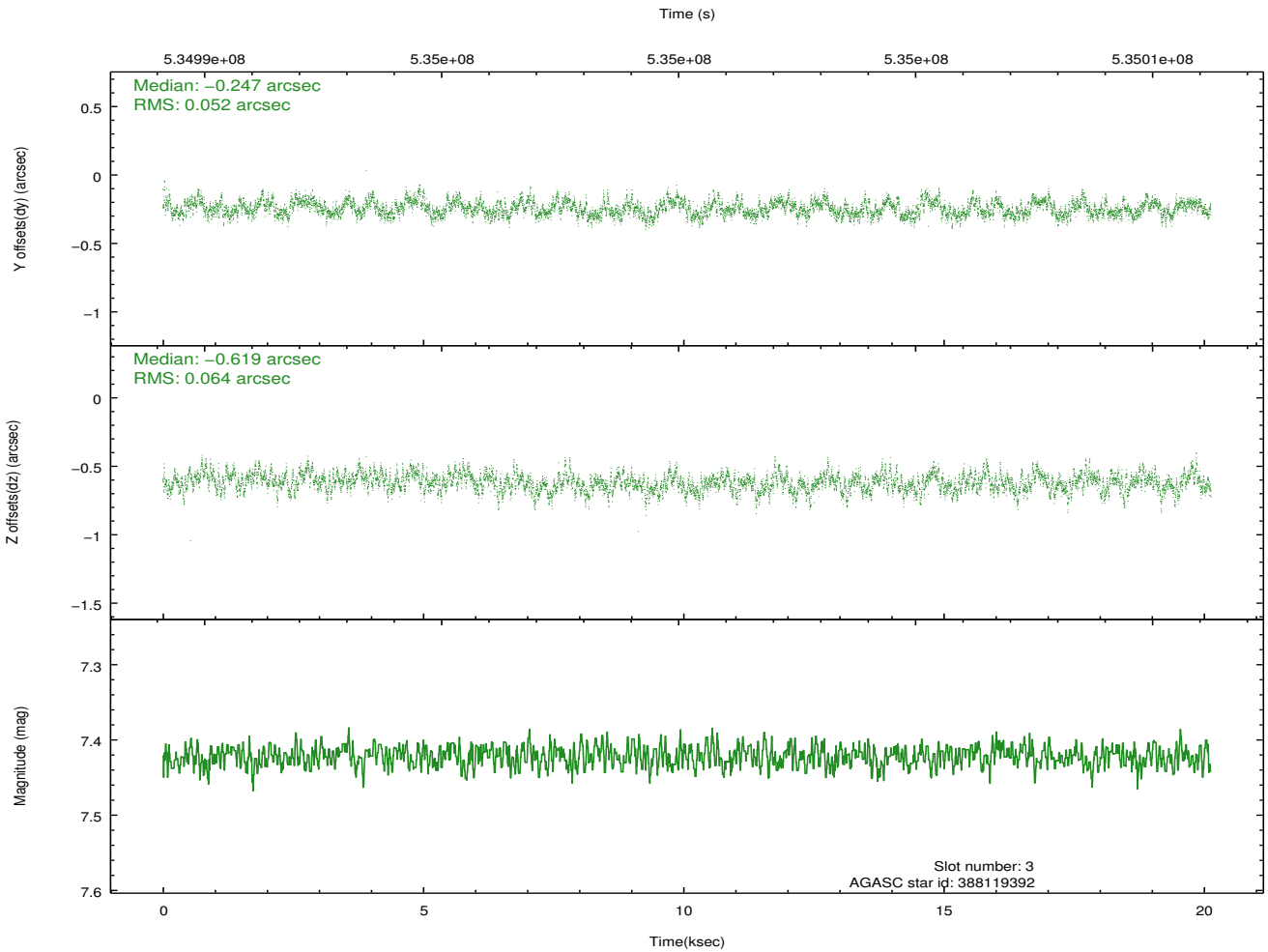
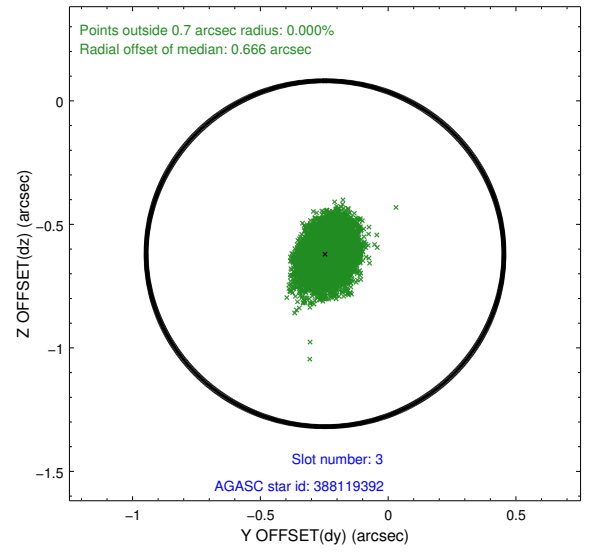
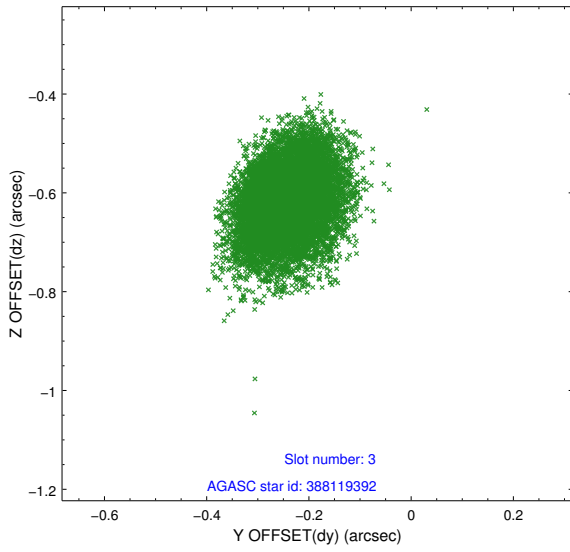
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	4912	-0.169	-0.097	0.016	0.024	0.000000	0.000000	-776.84	-1742.45
1	FID		ACIS-S-4	7.05	4912	0.204	0.098	0.021	0.028	0.000000	0.000000	2136.81	165.91
2	FID		ACIS-S-6	7.18	4912	-0.062	0.001	0.018	0.032	0.000000	0.000000	385.60	803.50
3	GUIDE	used	388119392	7.42	9821	-0.247	-0.619	0.087	0.144	112.044138	40.656586	188.48	1956.23
4	GUIDE	used	388245200	7.47	9821	-0.137	-0.381	0.085	0.141	112.557176	40.846148	212.00	401.55
5	GUIDE	used	388771448	8.64	9819	-0.002	0.117	0.105	0.166	112.939221	41.466193	1801.76	-1477.00
6	GUIDE	used	388238336	7.23	9823	0.049	0.257	0.101	0.159	113.439888	41.173941	281.98	-2270.17
7	GUIDE	used	388244952	7.74	9819	0.327	0.627	0.090	0.148	113.817171	40.506408	-2331.10	-2217.40

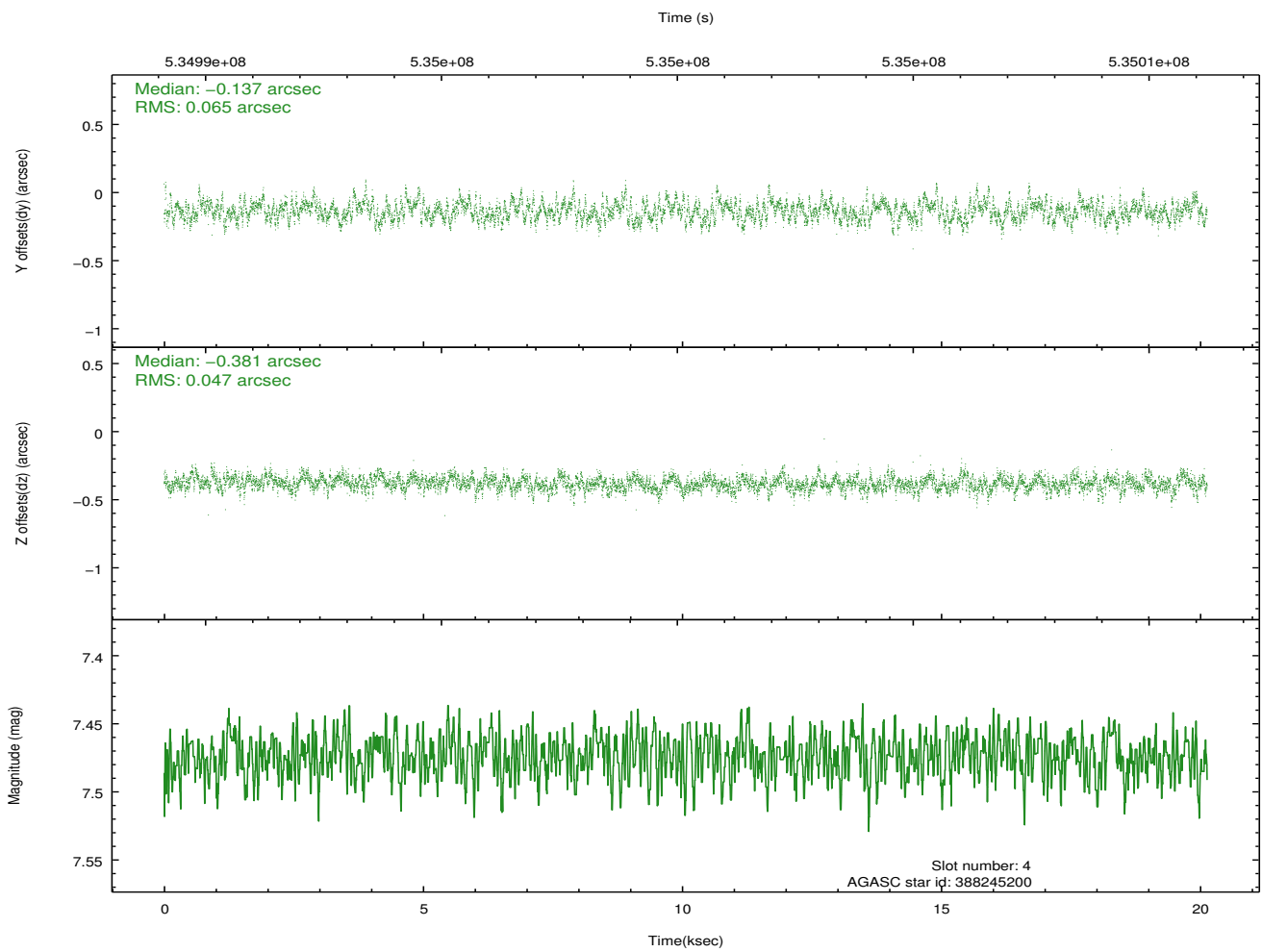
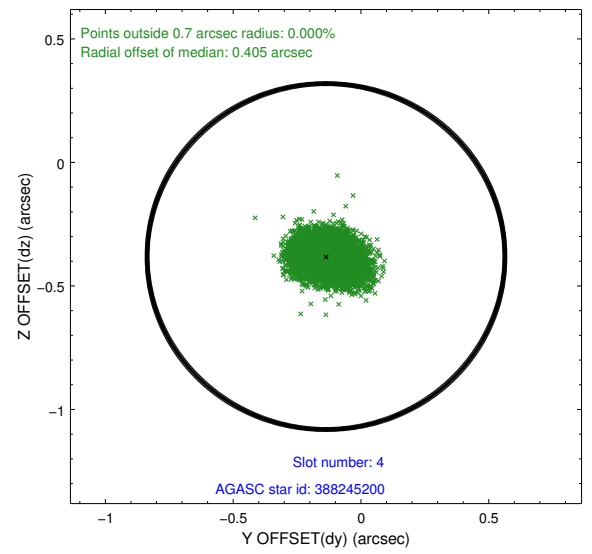
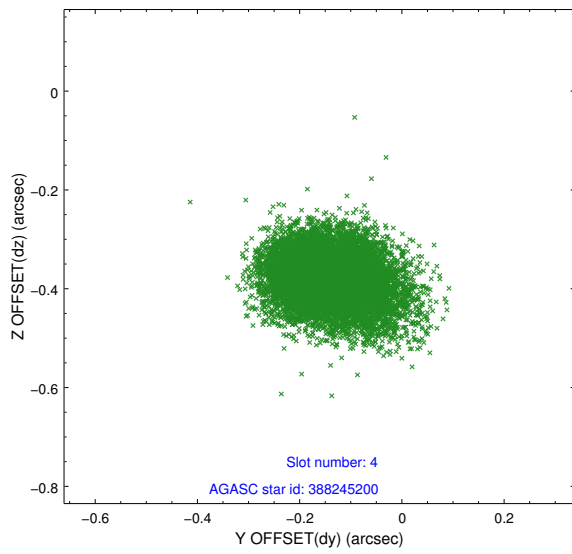
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## 2.4 Star Slots

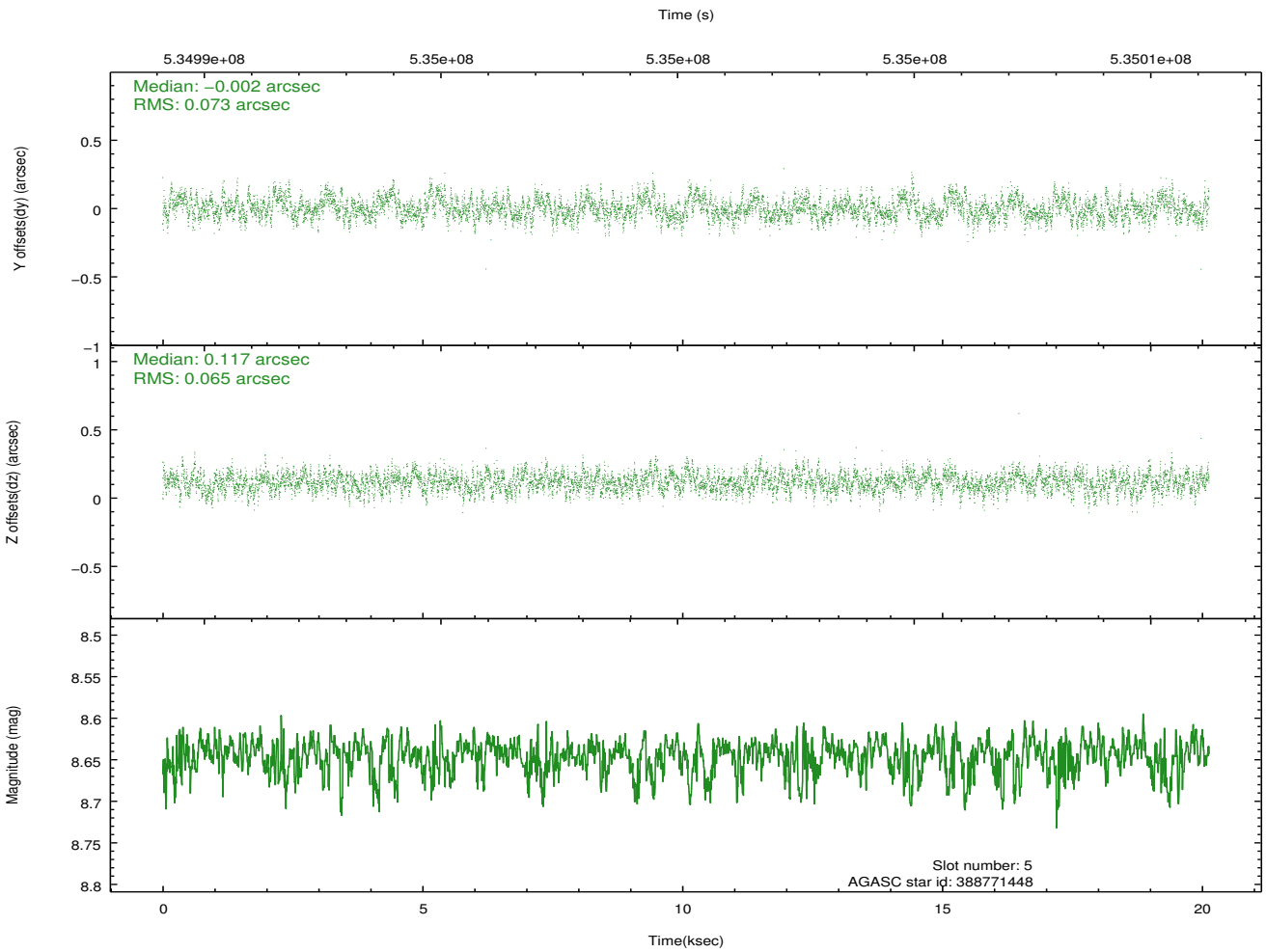
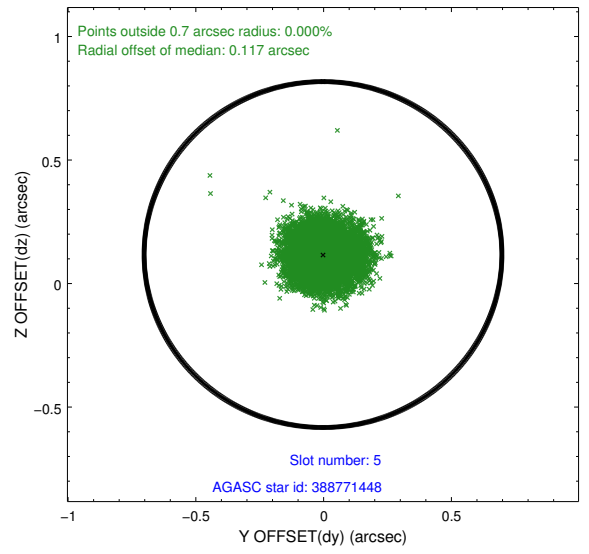
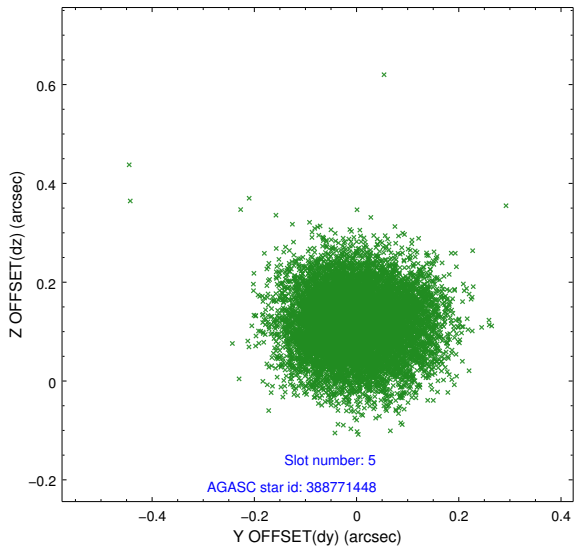
### 2.4.1 Slot 3



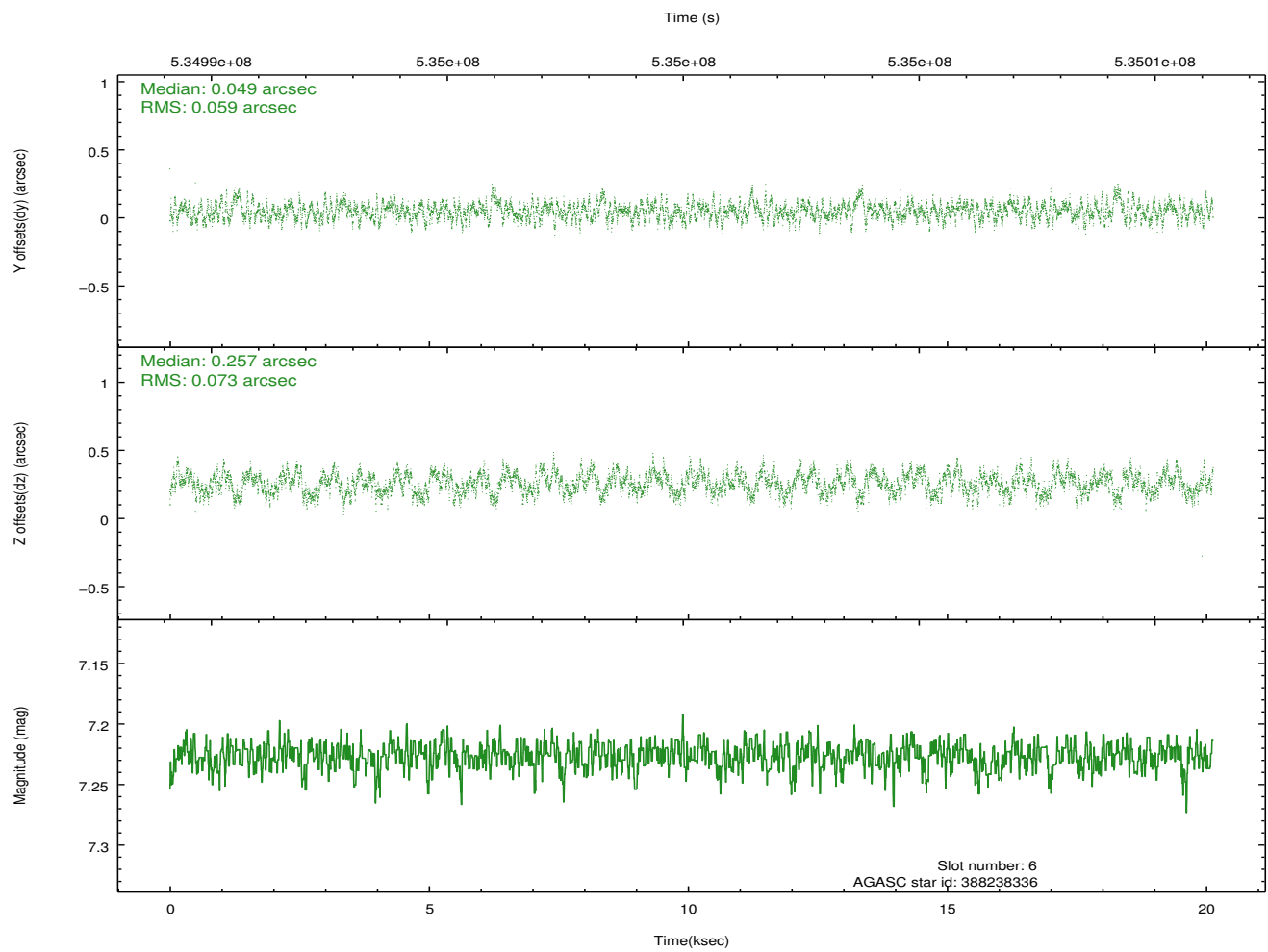
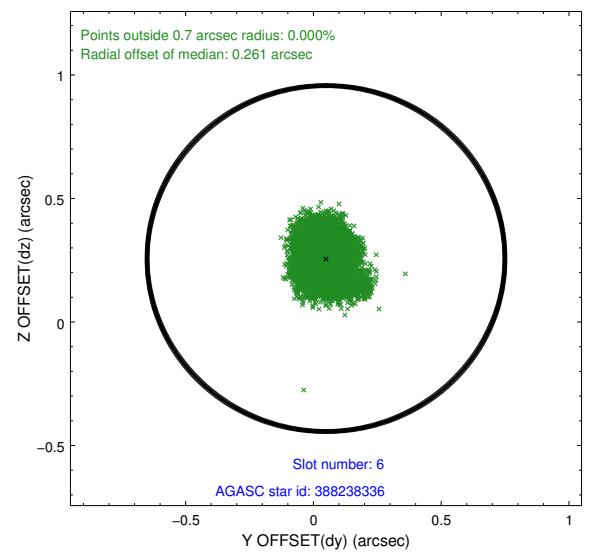
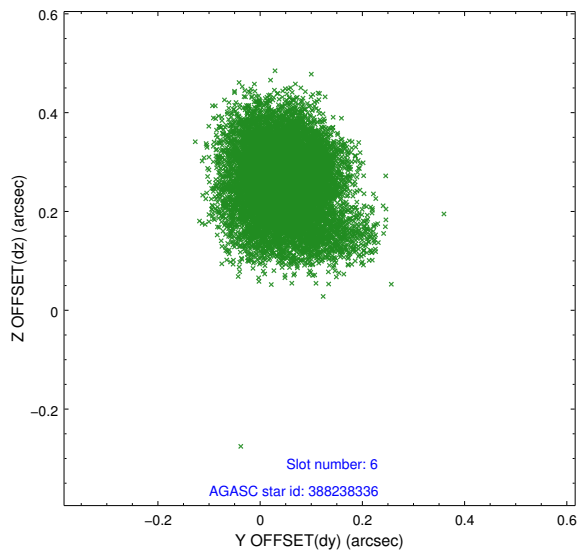
## 2.4.2 Slot 4



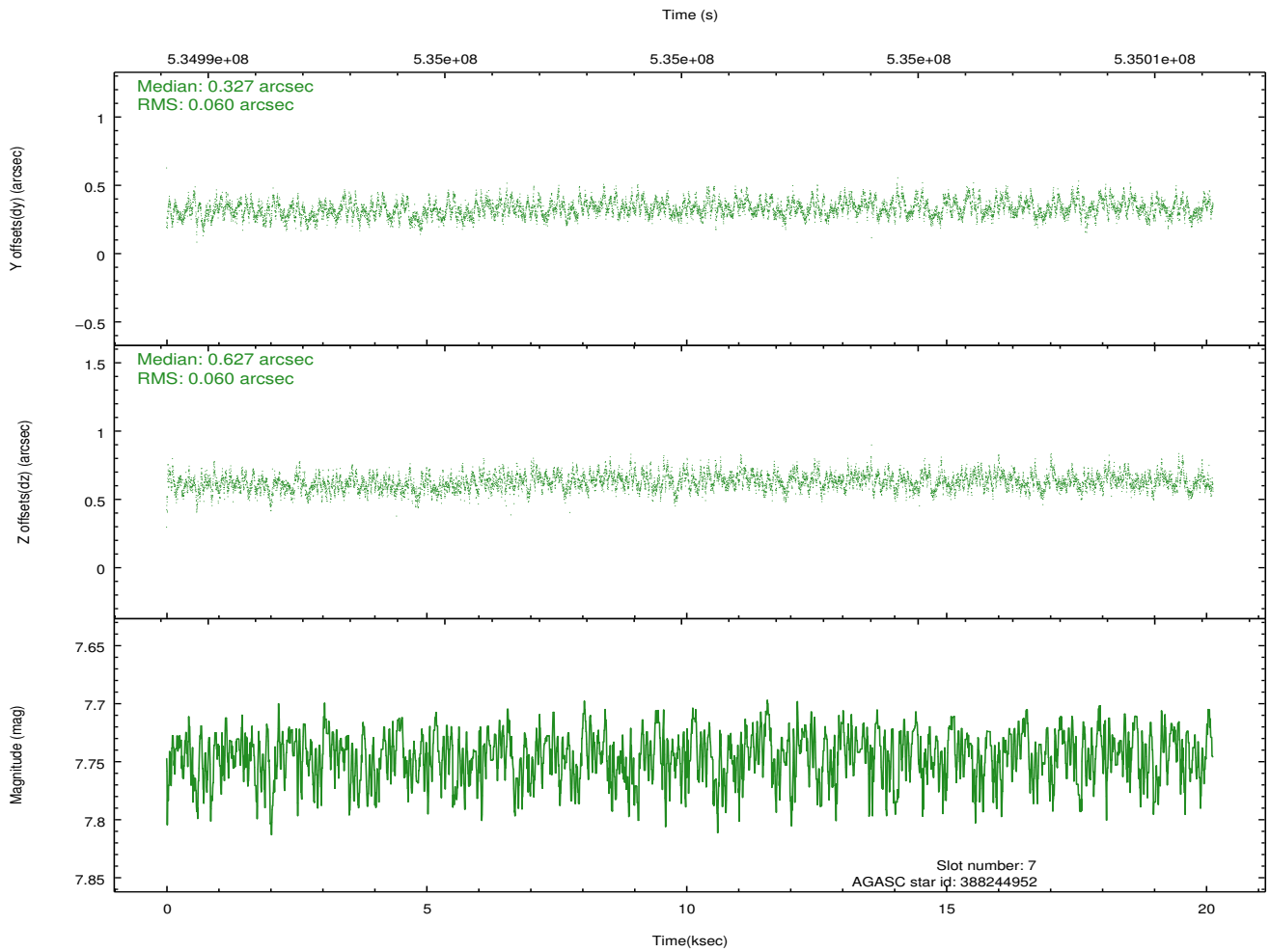
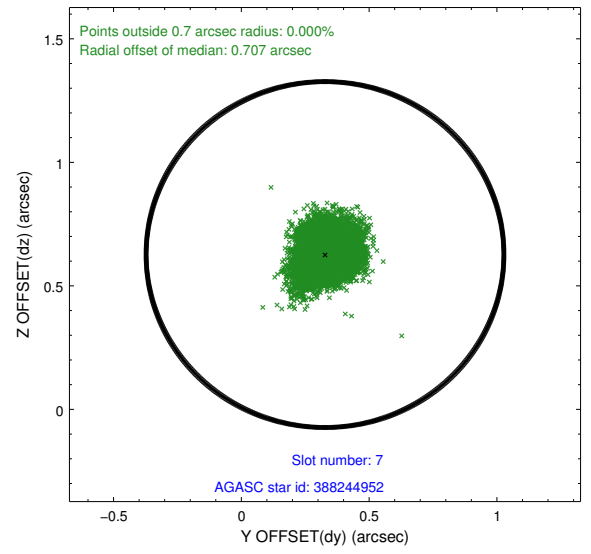
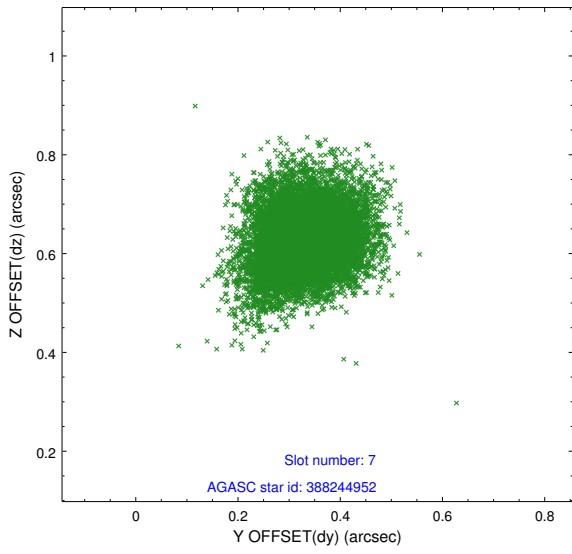
### 2.4.3 Slot 5



## 2.4.4 Slot 6

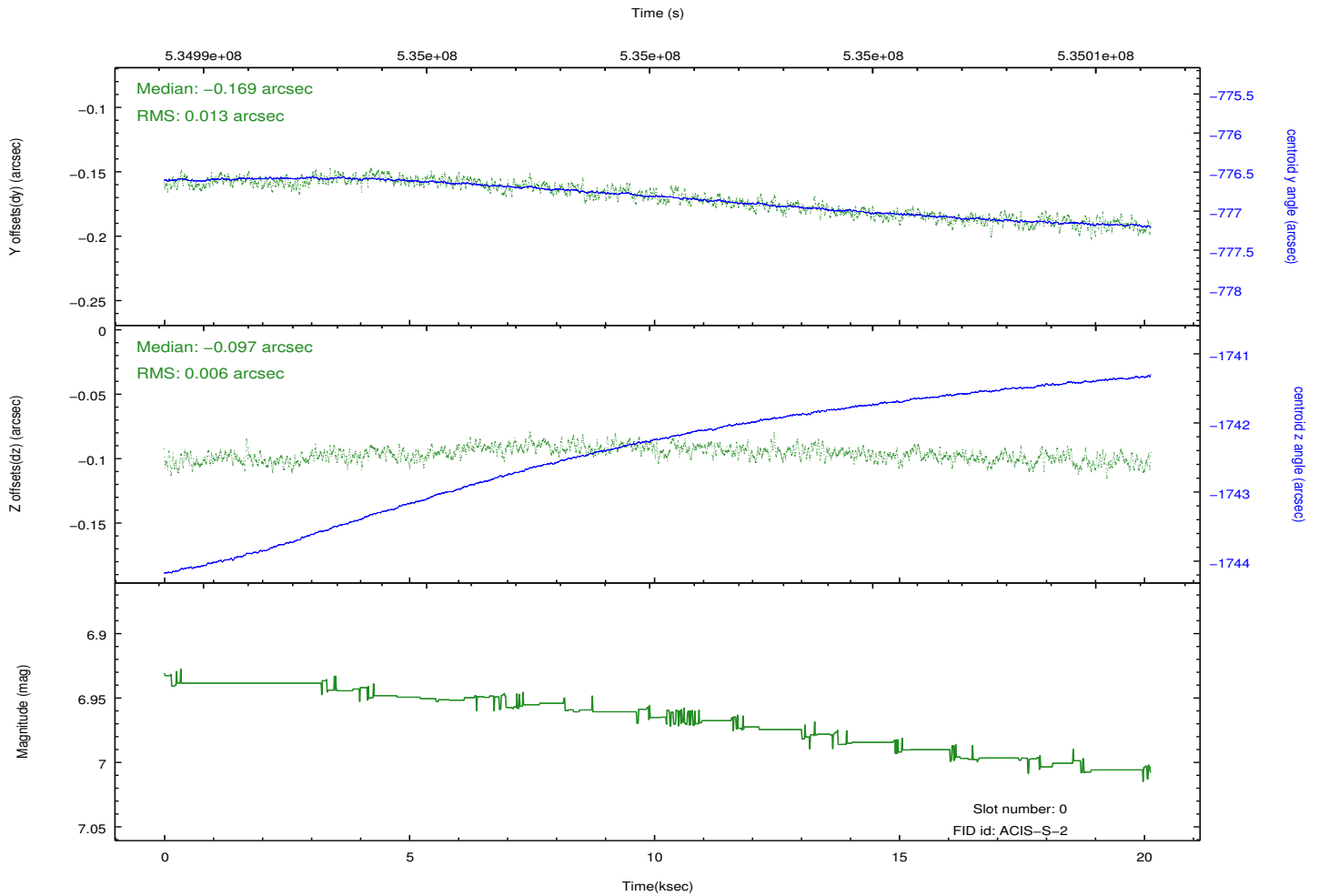
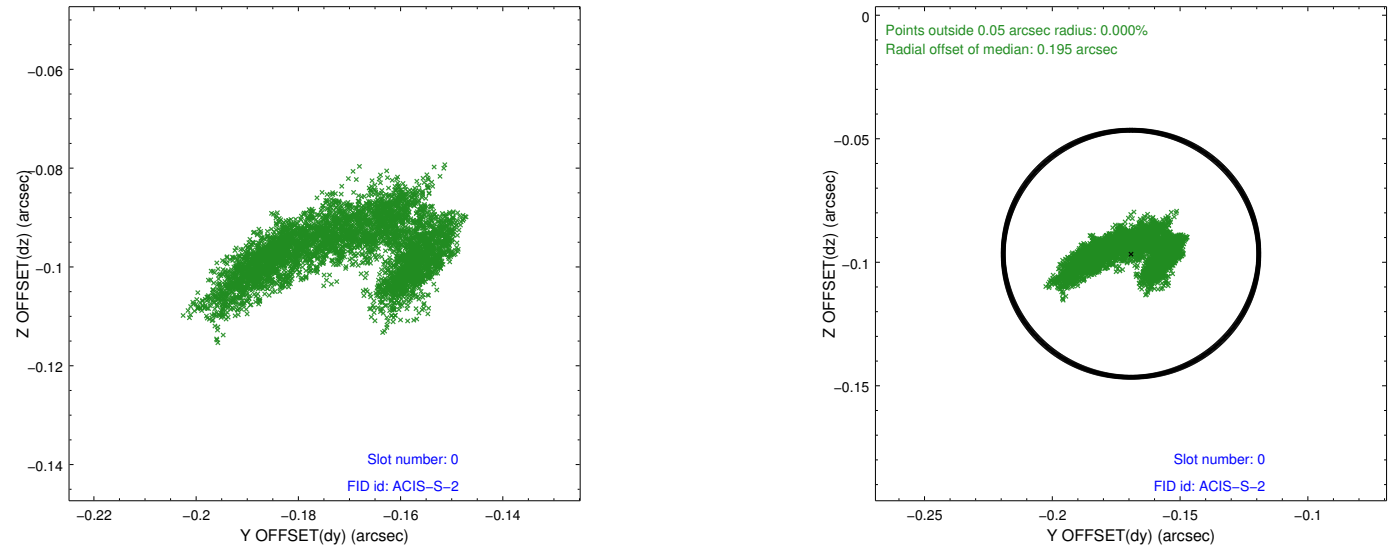


### 2.4.5 Slot 7

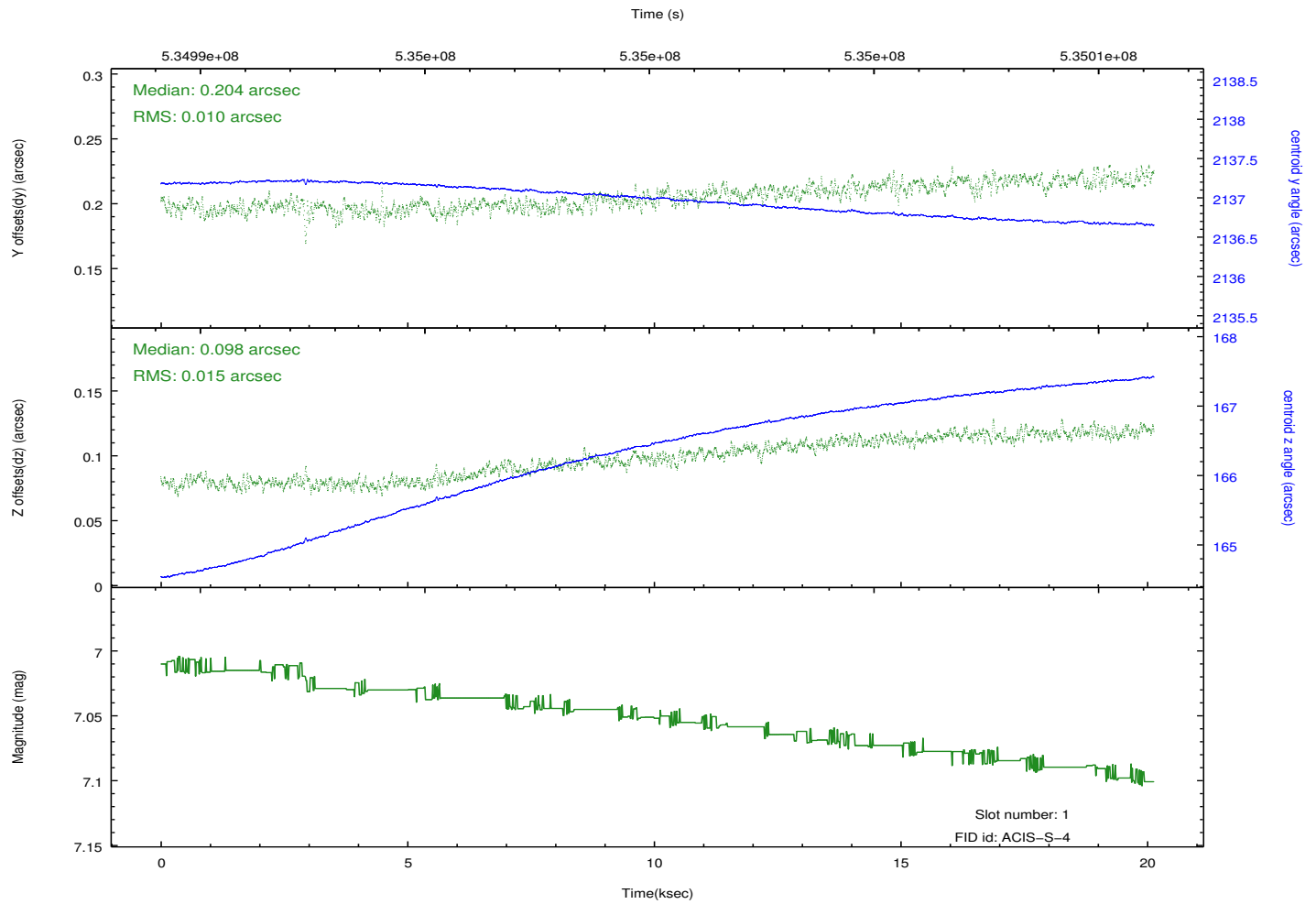
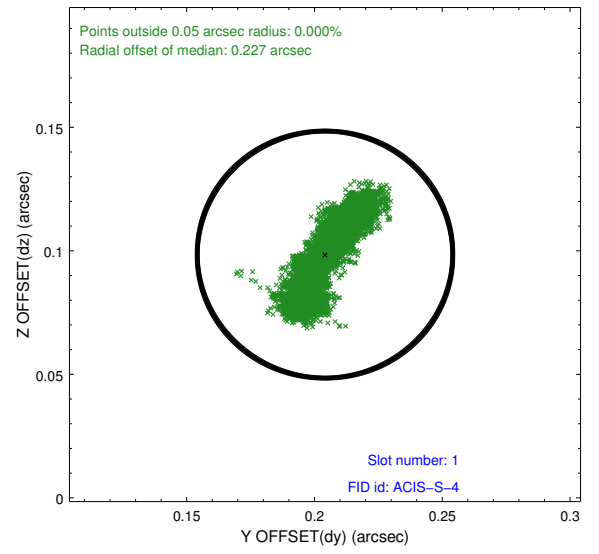
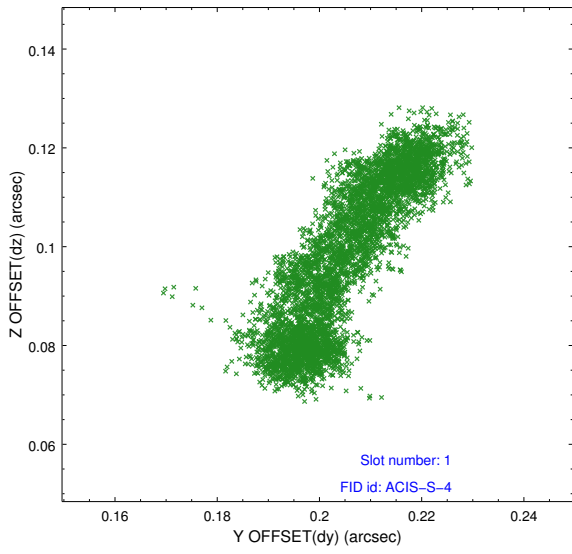


## 2.5 FID Slots

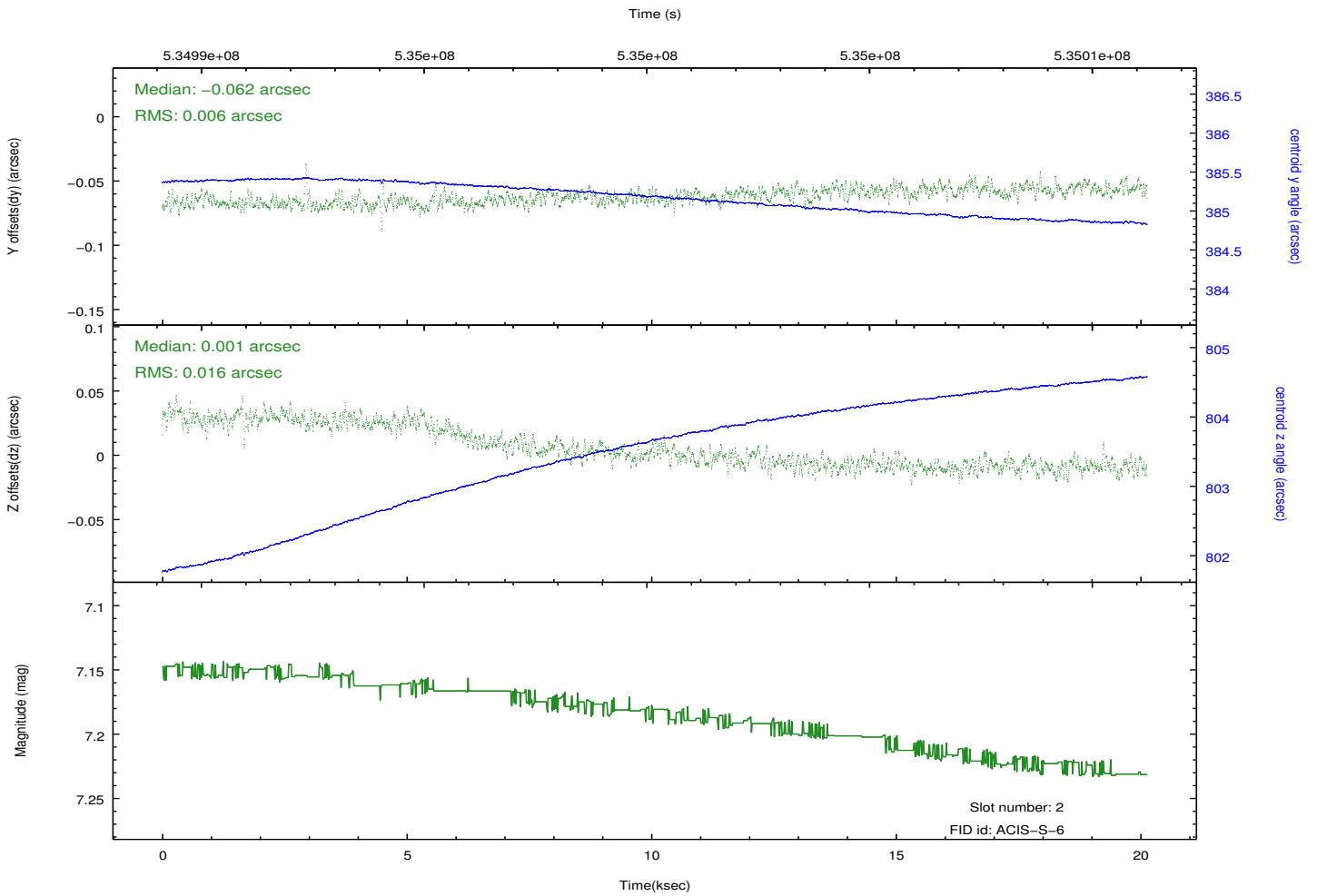
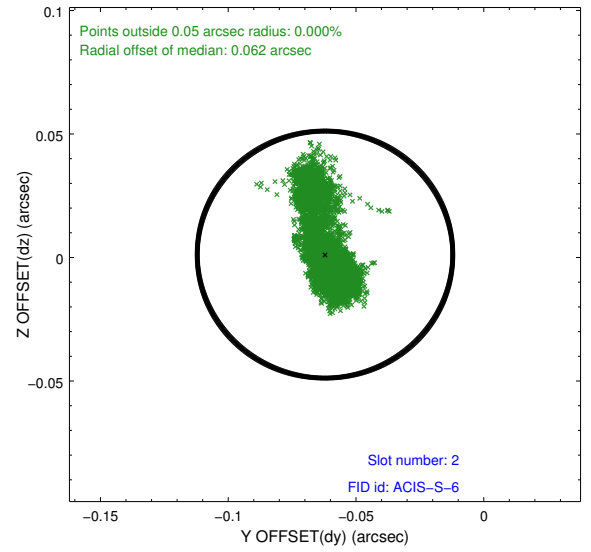
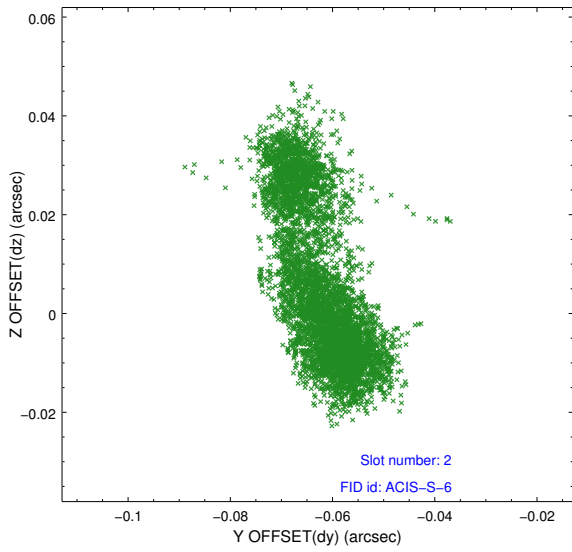
### 2.5.1 Slot 0



## 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)	2014.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.066300154328

## A.2 Comments