

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3840 - L2 Version 3  
Chandra X-Ray Center

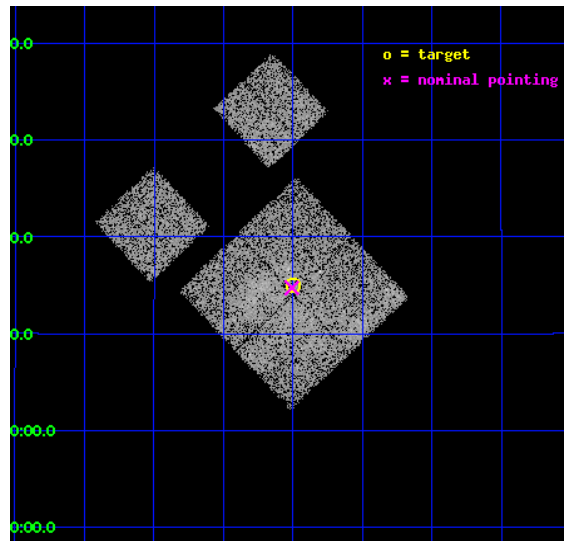
L2 Processing Date : Oct 19 2012

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# 1 Front

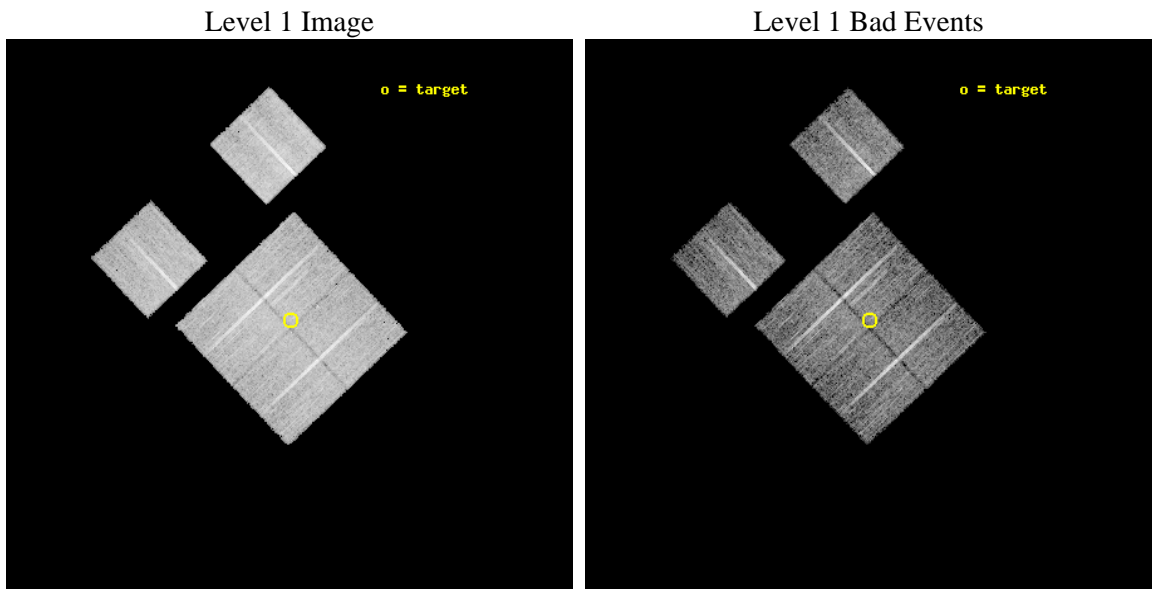
seq_num	500319	Sequence number
obs_id	3840	Observation id
title	SUPERNOVA REMNANT(S) AND STAR-FORMING REGIONS IN THE W51 COMPLEX	P
observer	PROF. BON-CHUL KOO	Principal investigator
object	W51 NORTH	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	290.75	Observer's specified target RA [deg]
dec_targ	14.25	Observer's specified target Dec [deg]
ra_nom	290.75189357146	Nominal RA [deg]
dec_nom	14.245777669932	Nominal Dec [deg]
roll_nom	316.53562569085	Nominal Roll [deg]
revision	3	Processing version of data
ontime	11753.599956214	Sum of GTIs [s]
livetime	11604.768796401	Livetime [s]
ontime0	11753.599956214	Sum of GTIs [s]
ontime1	11753.599956214	Sum of GTIs [s]
ontime2	11750.358995914	Sum of GTIs [s]
ontime3	11753.599956214	Sum of GTIs [s]
ontime6	11753.599956214	Sum of GTIs [s]
ontime8	11753.599956214	Sum of GTIs [s]
l2events	38596	Number of level 2 events



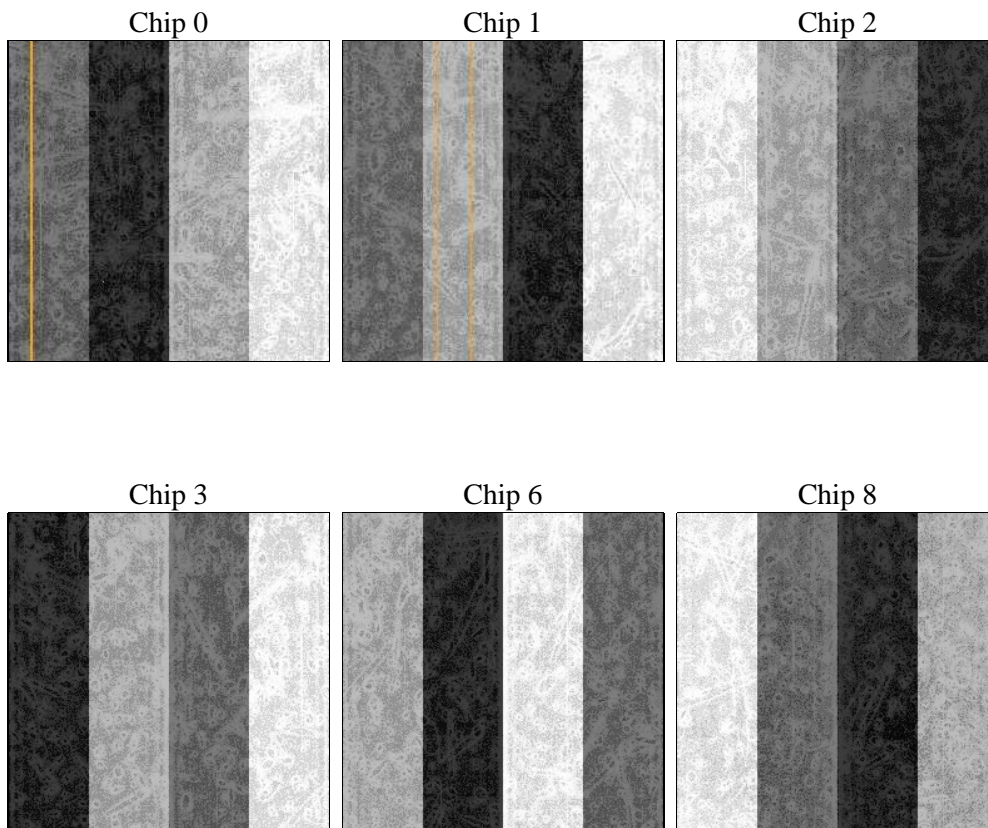
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	11753.599956214	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime0	11753.599956214	Sum of GTIs [s]
date	2012-10-19T05:05:23	Date and time of file creation	ontime1	11753.599956214	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	11750.358995914	Sum of GTIs [s]
			ontime3	11753.599956214	Sum of GTIs [s]
			ontime6	11753.599956214	Sum of GTIs [s]
			ontime8	11753.599956214	Sum of GTIs [s]
			l1events	382322	Number of level 1 events

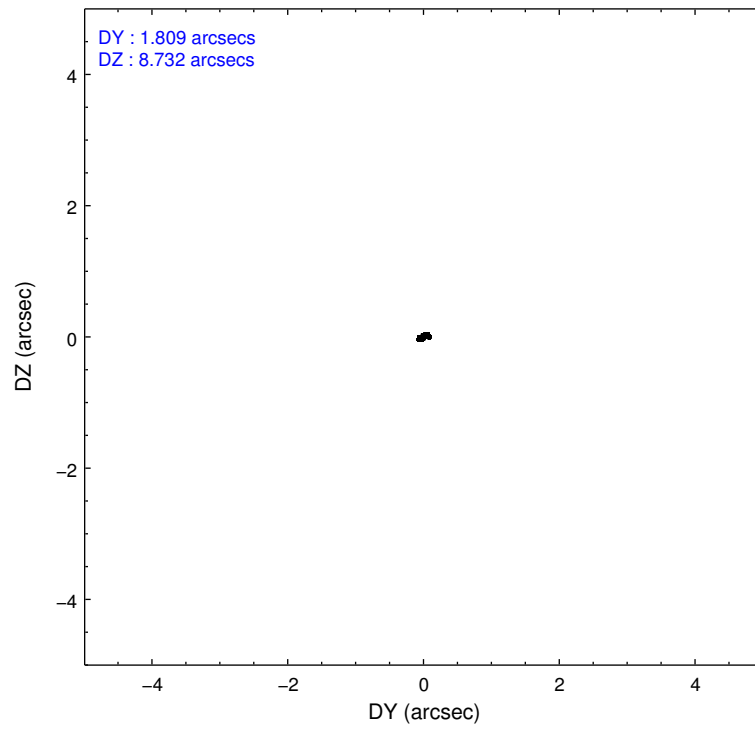
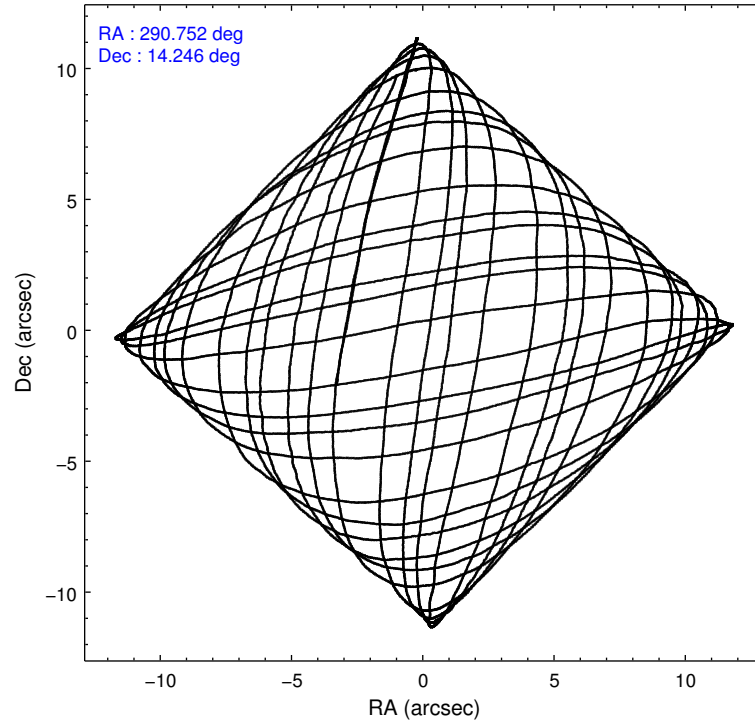
### 2.1.4 Events

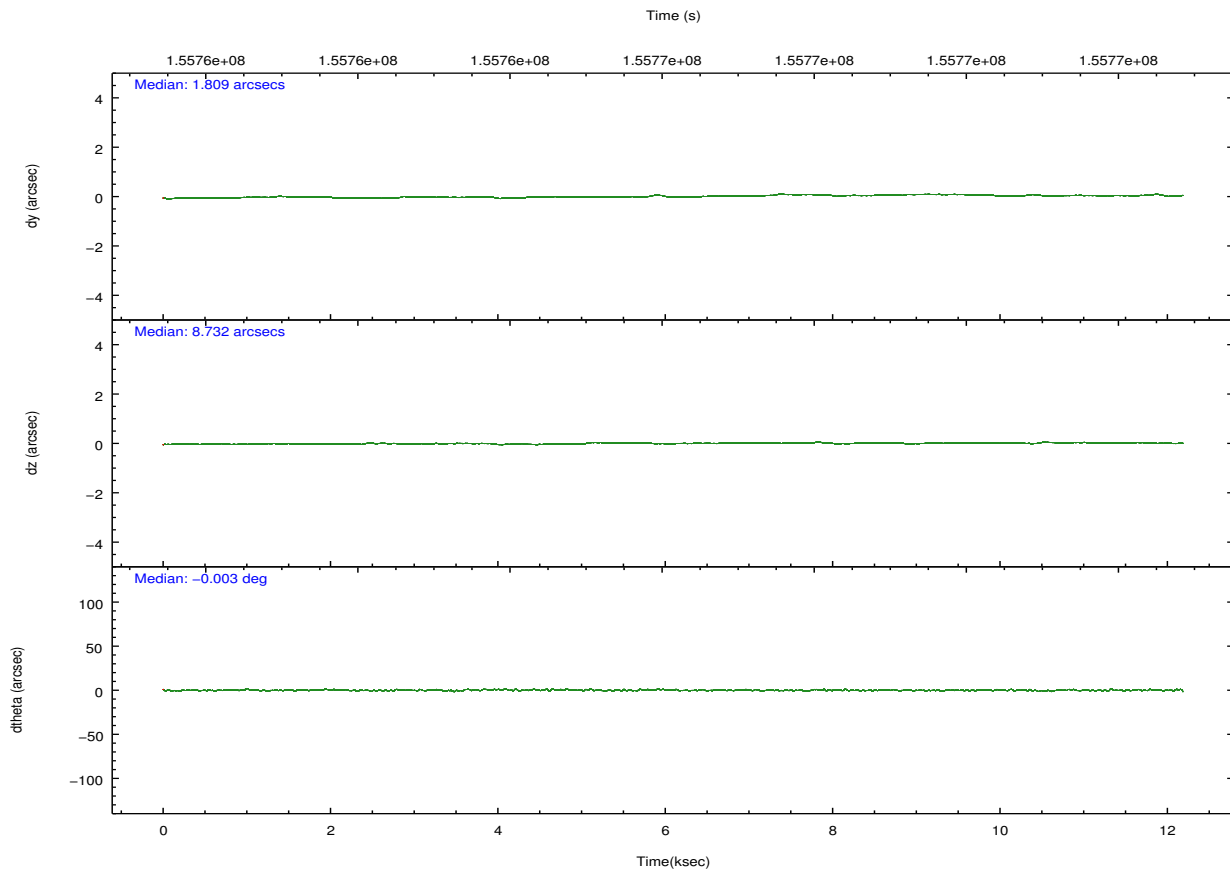
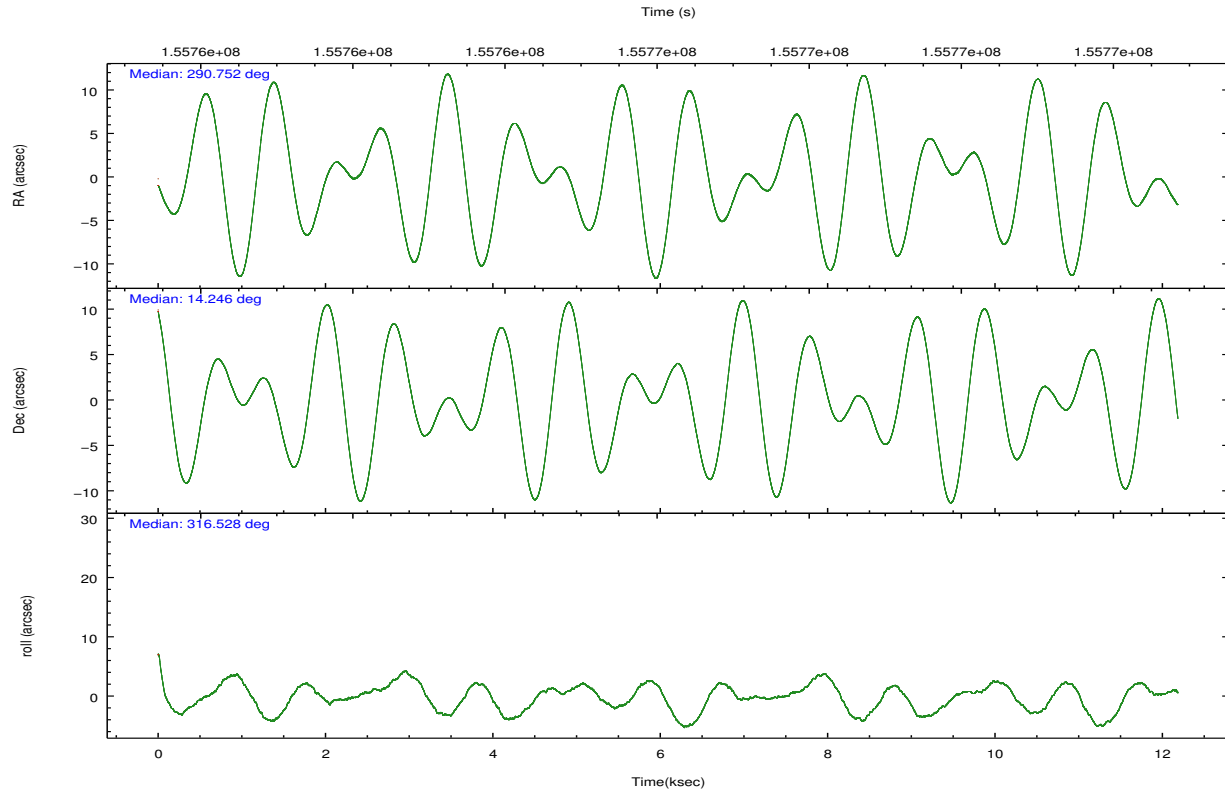
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 8		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 8
level 1 events	58768	57444	66154	61887	58740	79329	grade 0 events	4077	3755	4331	2617	2647	5414
rejected events	50397	49145	57730	55485	52191	61661		6%	6%	6%	4%	4%	6%
rejected %	85%	85%	87%	89%	88%	77%	grade 1 events	49	35	51	27	36	57
								0%	0%	0%	0%	0%	0%
							grade 2 events	1619	1552	1572	1326	1300	3817
								2%	2%	2%	2%	2%	4%
							grade 3 events	724	804	731	711	666	1967
								1%	1%	1%	1%	1%	2%
							grade 4 events	764	790	687	691	662	1803
								1%	1%	1%	1%	1%	2%
							grade 5 events	2091	2211	1930	2169	2192	3281
								3%	3%	2%	3%	3%	4%
							grade 6 events	1190	1402	1108	1059	1275	4687
								2%	2%	1%	1%	2%	5%
							grade 7 events	48254	46895	55744	53287	49962	58303
								82%	81%	84%	86%	85%	73%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012368	ACIS-012368	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	290.724406	290.7518935714649	Subarray requested	NONE	NONE
[deg] Pointing Dec	14.252014	14.2457776699325	Alternating exposures requested	N	N
[deg] Pointing Roll	316.333706	316.5356256908503	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	155760234.184000	155759858.52102			
Observation start date	2002-12-08T18:42:50	2002-12-08T18:37:38			
[s] Observation end time (MET)	155772234.184000	155772698.18405			
Observation end date	2002-12-08T22:02:50	2002-12-08T22:11:38			
Read mode	TIMED	TIMED			

## 2.3 Aspect



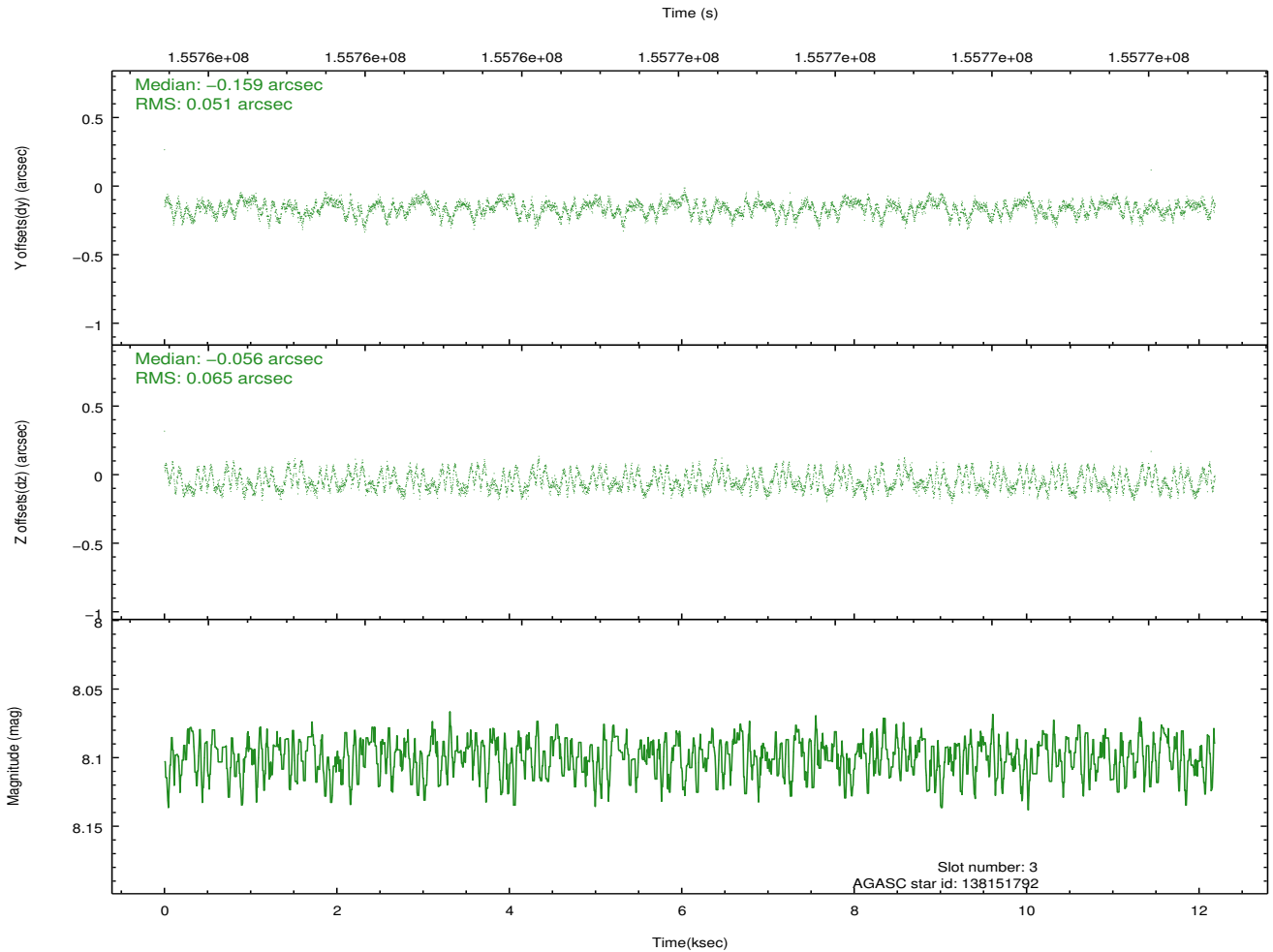
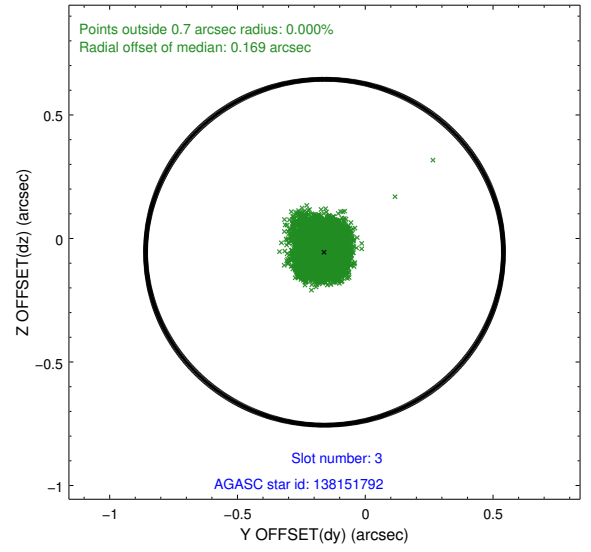
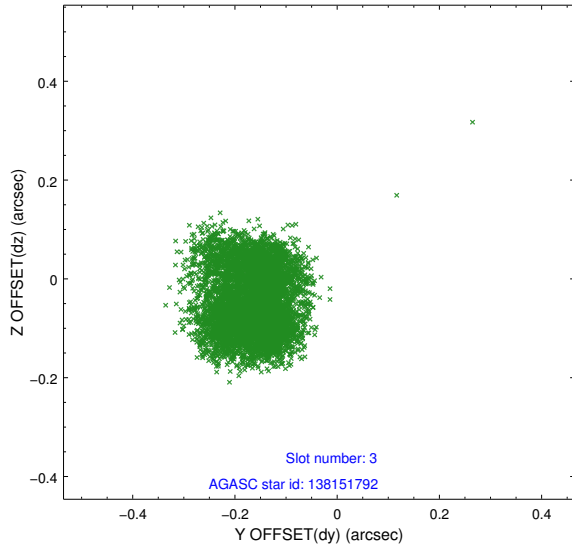


### Slot Statistics

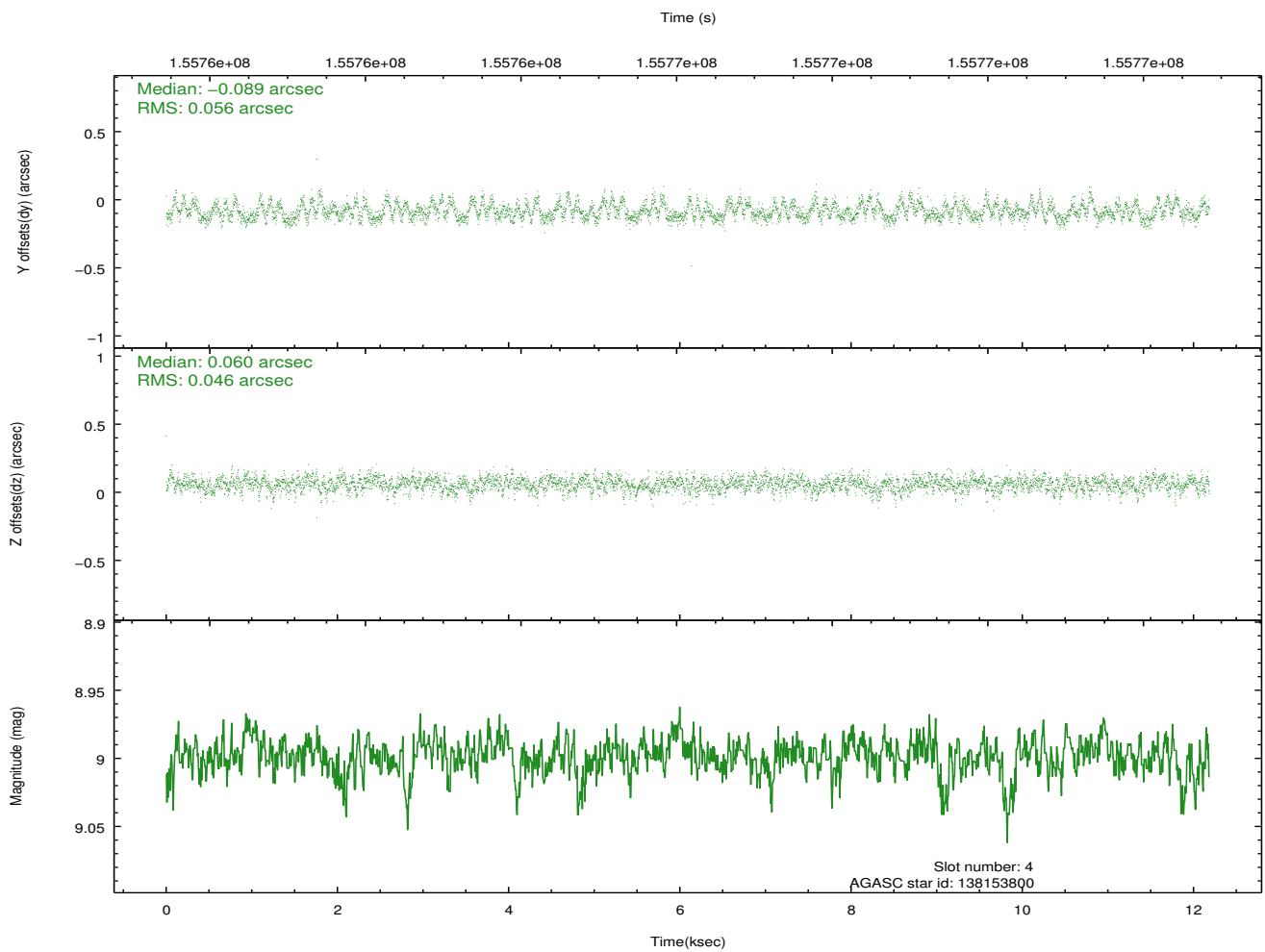
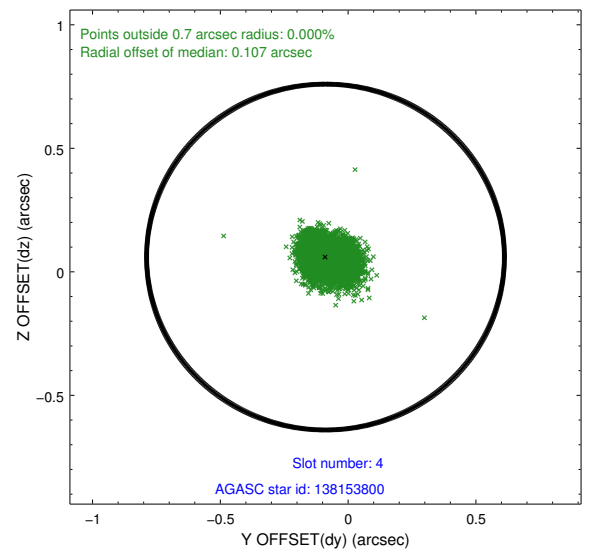
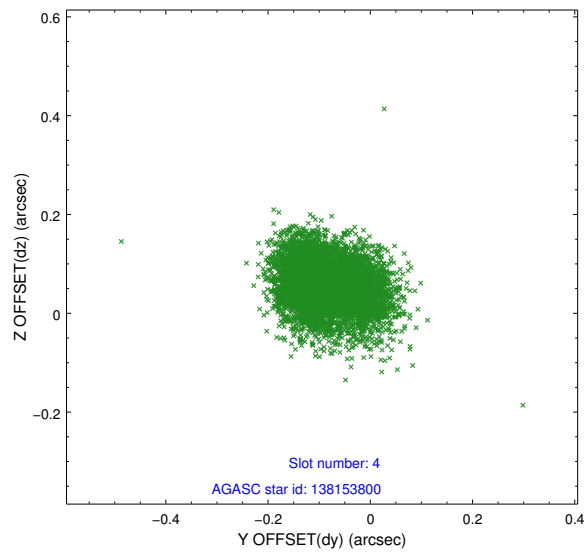
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	2973	-0.071	0.061	0.006	0.011	0.000000	0.000000	937.96	-832.09
1	FID	ACIS-I-2	7.15	2973	0.009	-0.071	0.009	0.017	0.000000	0.000000	-755.82	-838.90
2	FID	ACIS-I-5	7.23	2973	-0.030	0.083	0.007	0.014	0.000000	0.000000	-1810.50	1065.15
3	GUIDE	138151792	8.10	5943	-0.159	-0.056	0.090	0.136	290.048456	14.138751	-1426.52	-1922.00
4	GUIDE	138153800	9.00	5945	-0.089	0.060	0.077	0.124	290.997179	14.820950	-727.22	2137.18
5	GUIDE	138155968	9.14	5943	0.257	-0.218	0.097	0.161	290.713024	13.375477	2151.66	-2309.76
6	GUIDE	139860136	8.52	5941	0.059	0.129	0.094	0.154	291.441042	14.451940	1308.96	2248.33
7	GUIDE	209730616	9.03	5942	-0.063	0.079	0.094	0.157	290.681780	15.146698	-2330.08	2227.88

## 2.4 Star Slots

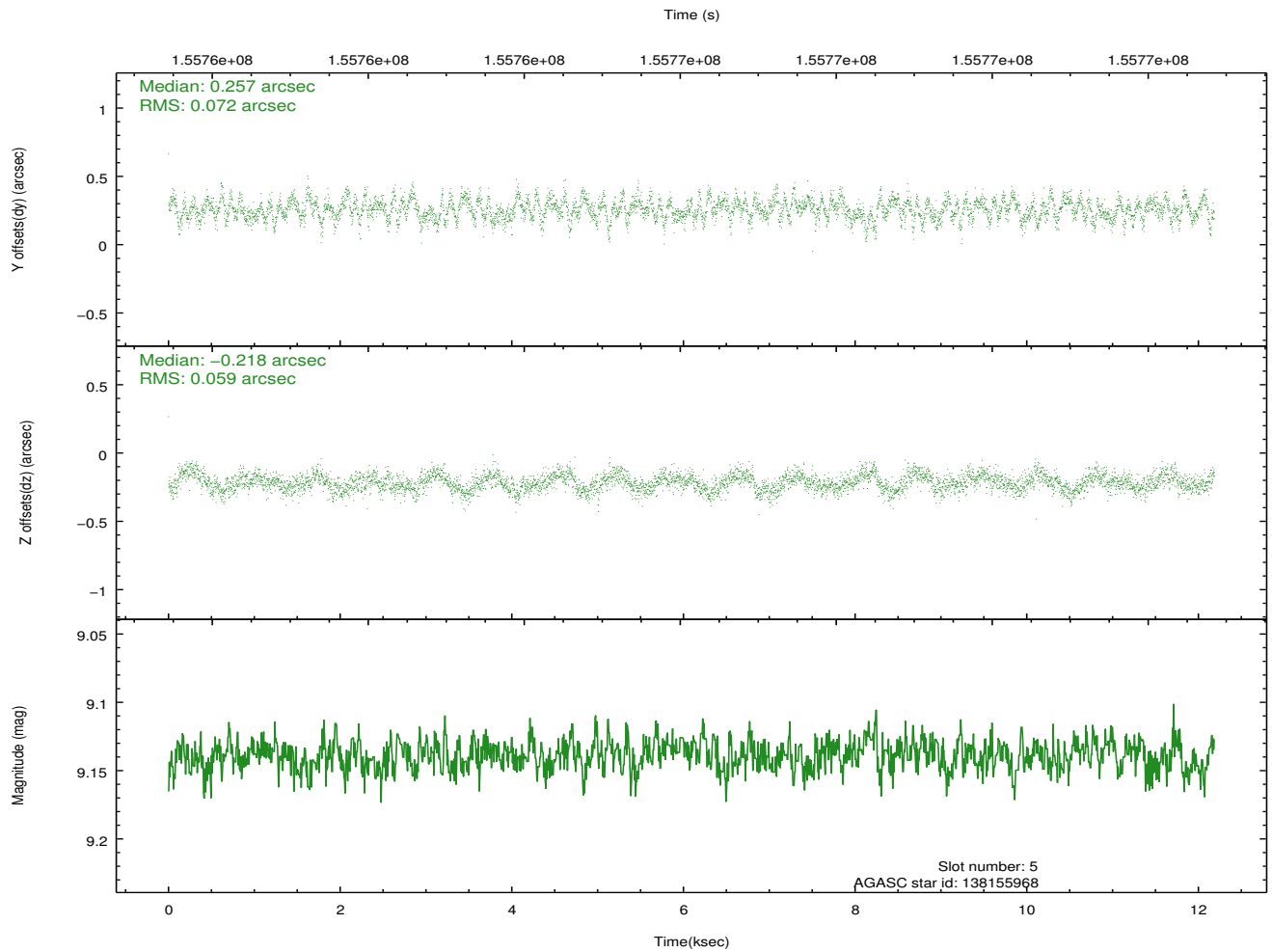
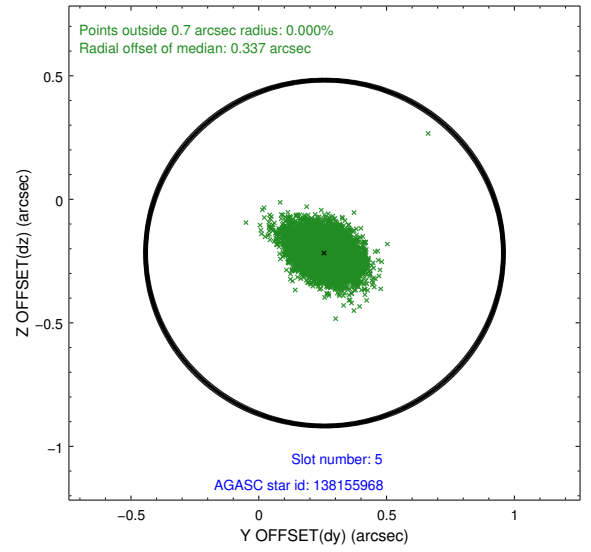
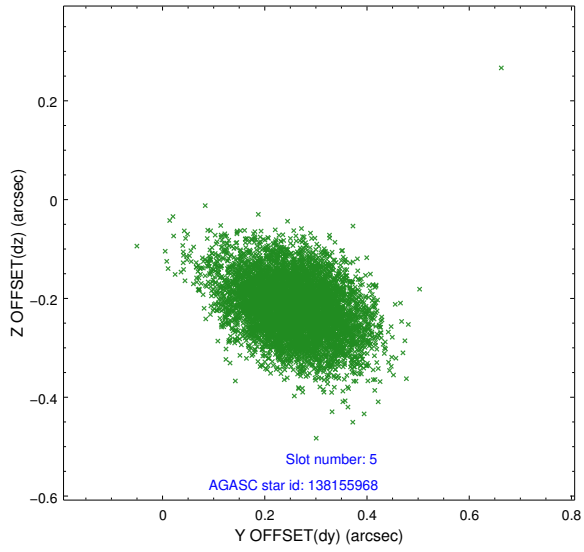
### 2.4.1 Slot 3



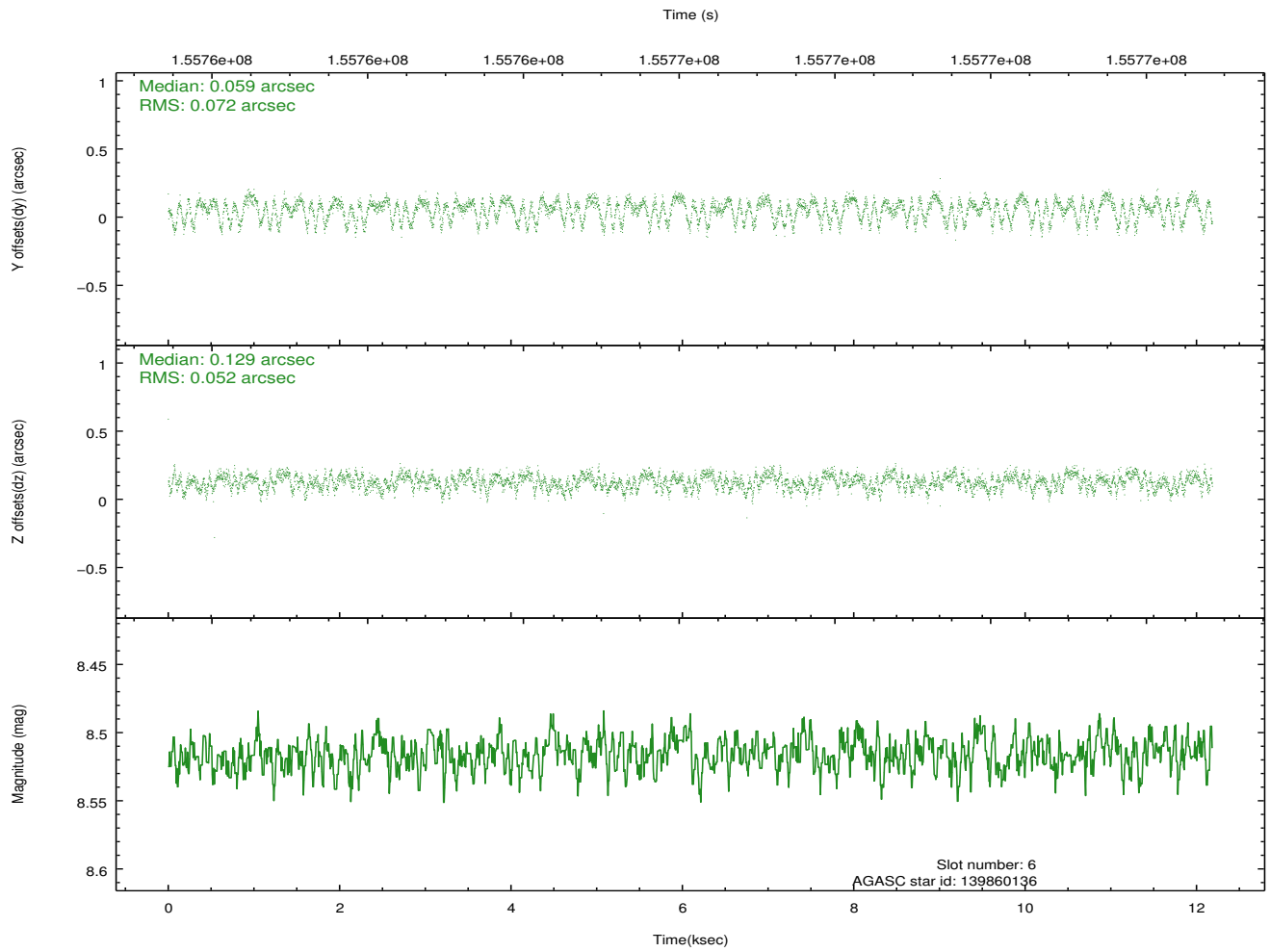
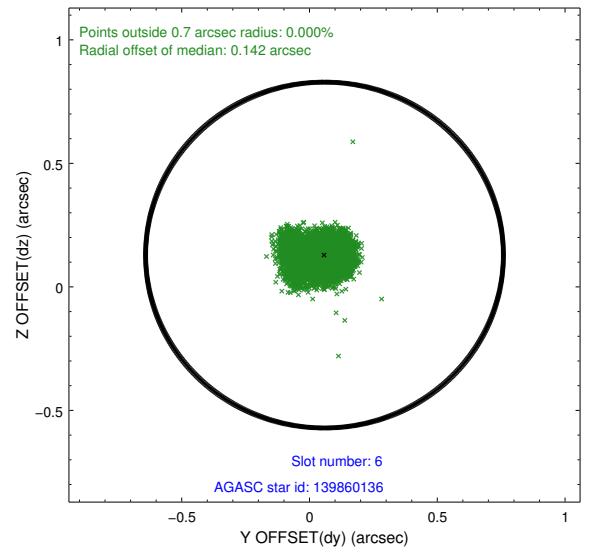
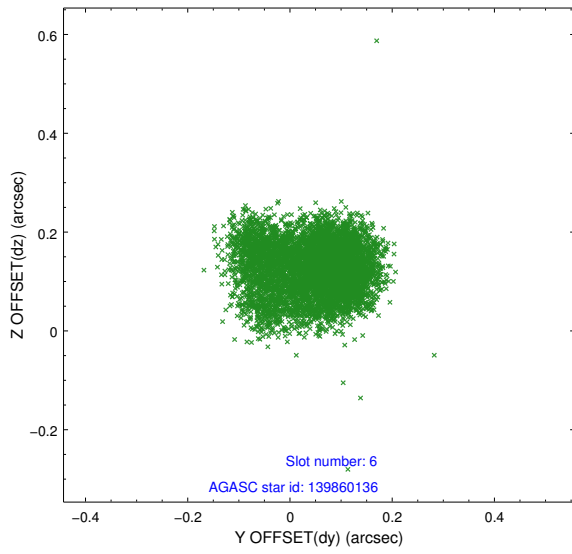
## 2.4.2 Slot 4



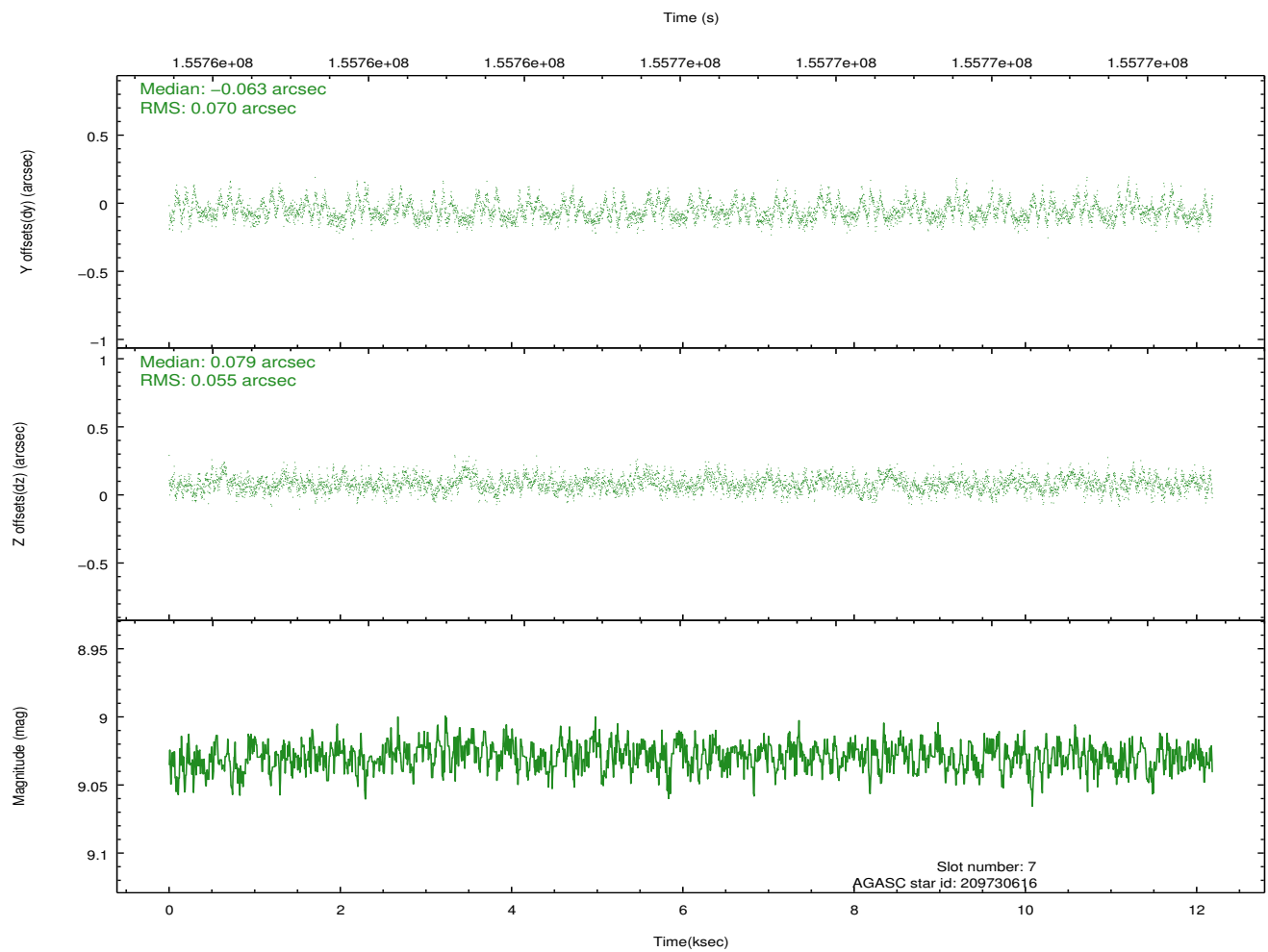
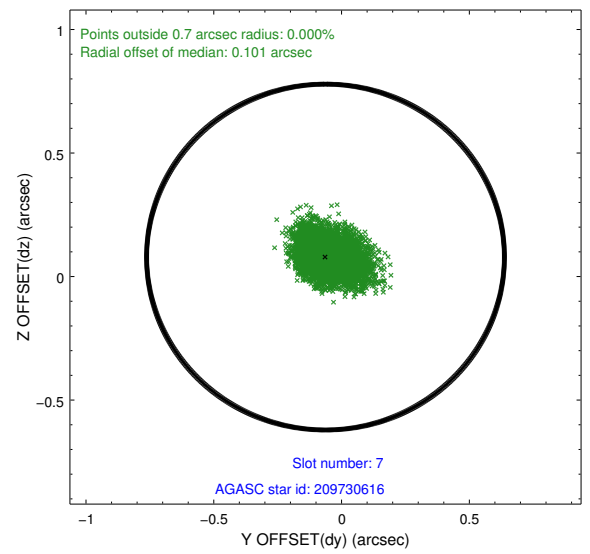
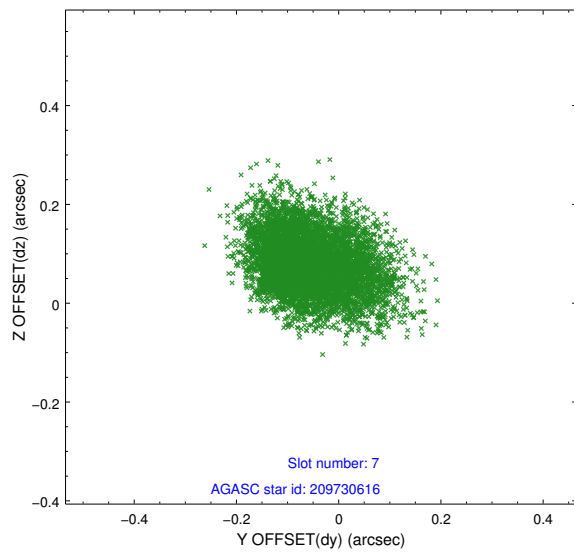
### 2.4.3 Slot 5



## 2.4.4 Slot 6

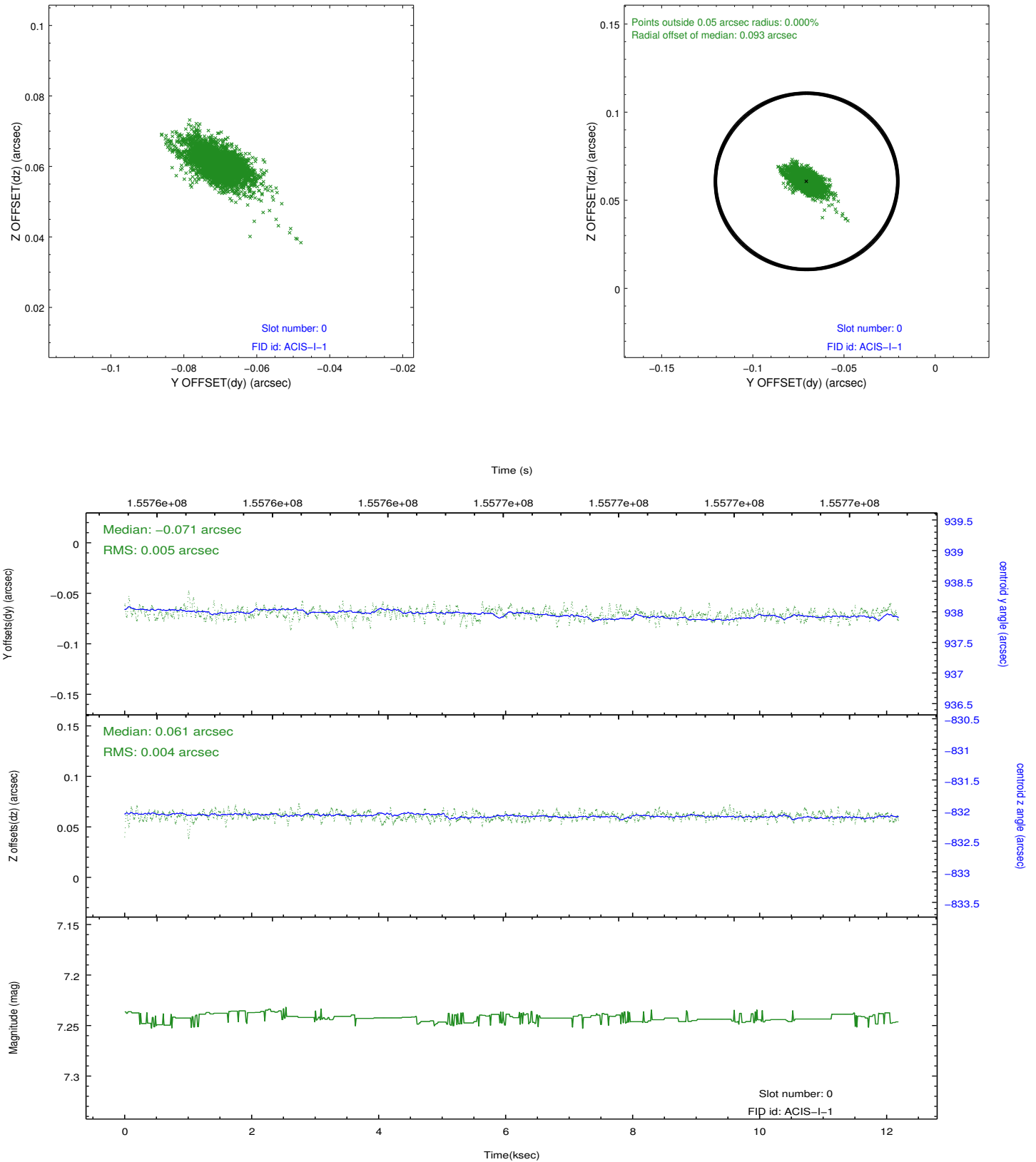


## 2.4.5 Slot 7

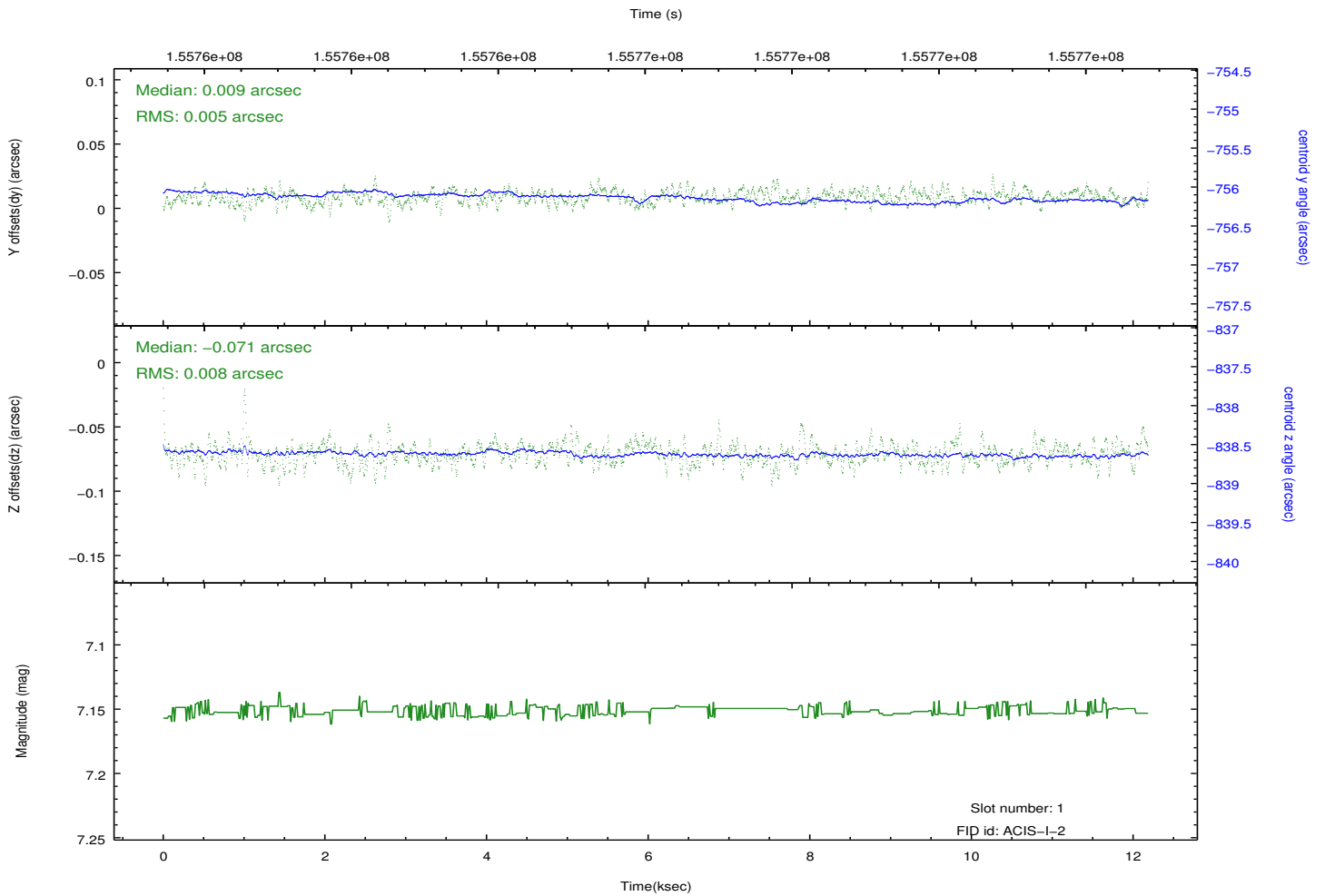
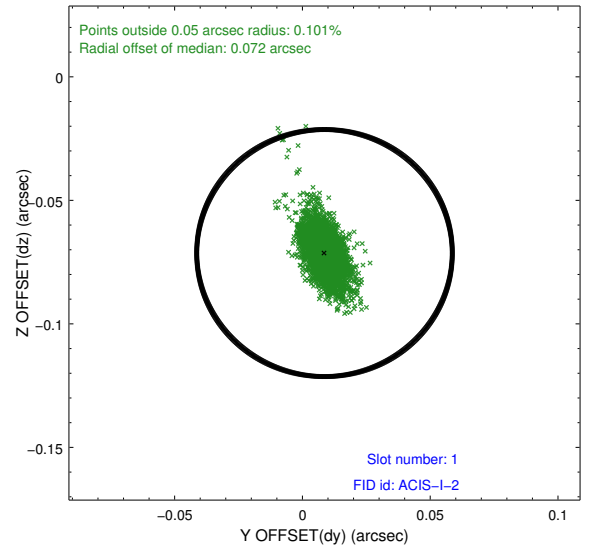
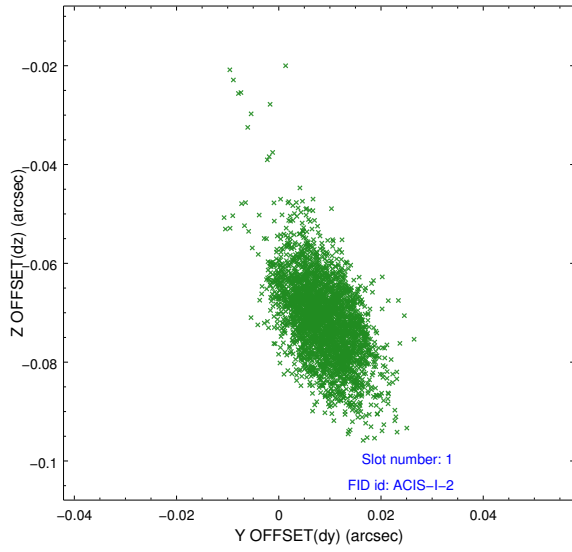


## 2.5 FID Slots

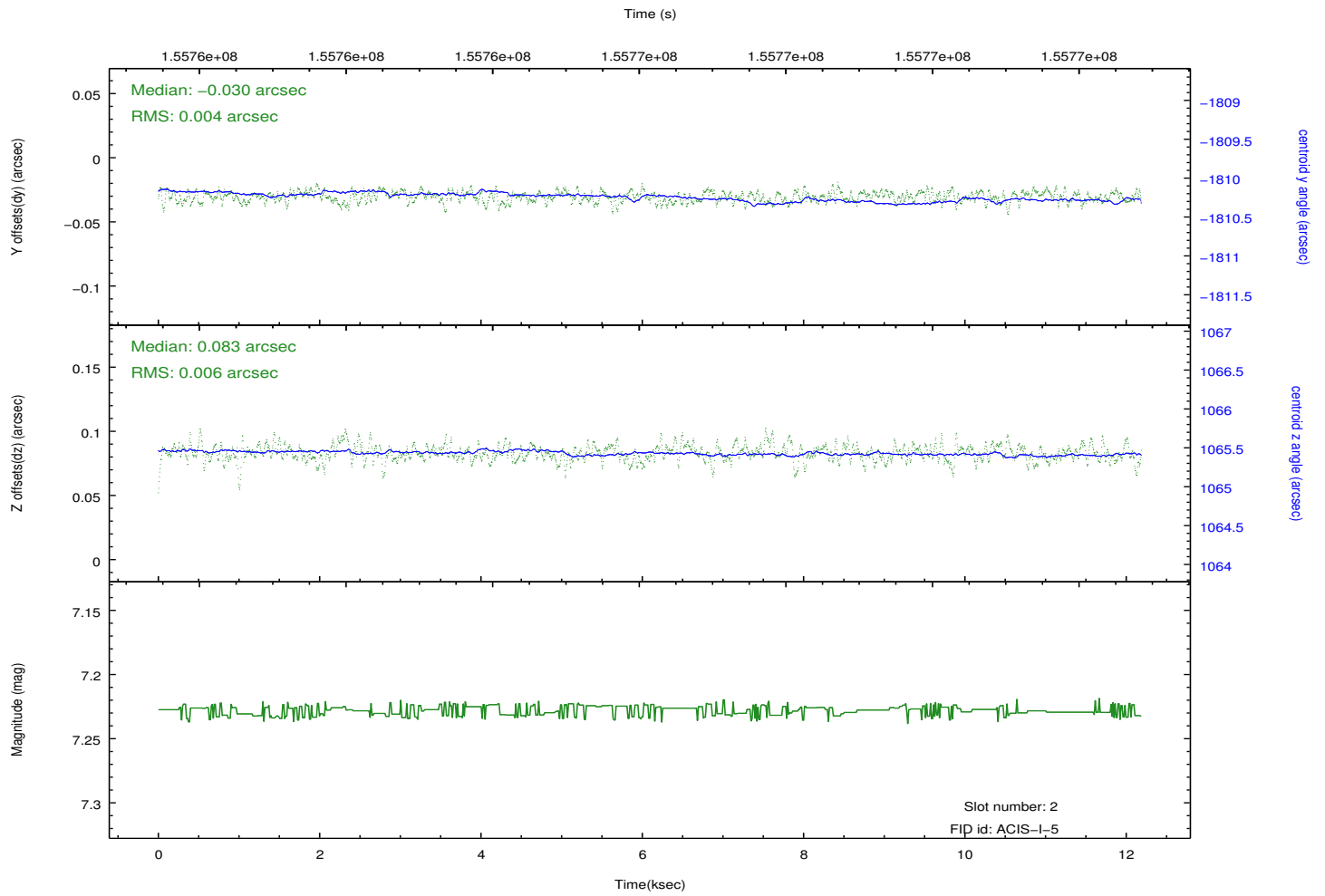
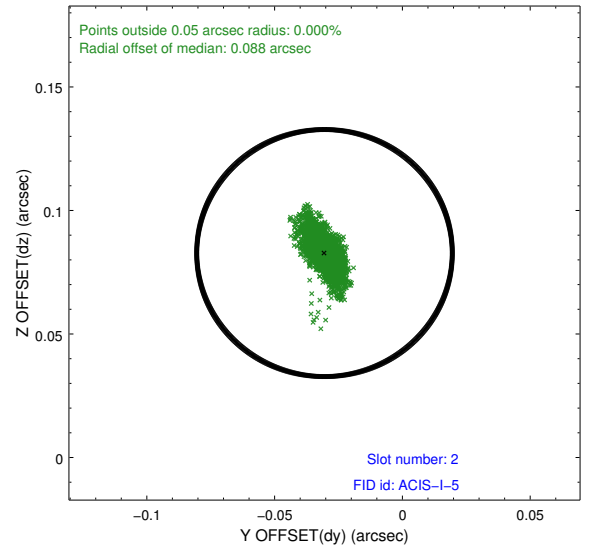
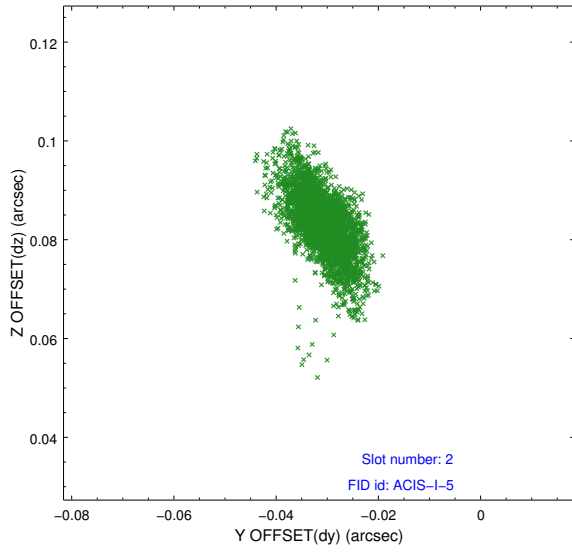
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.756

### A.2 Comments