

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3107 - L2 Version 3  
Chandra X-Ray Center

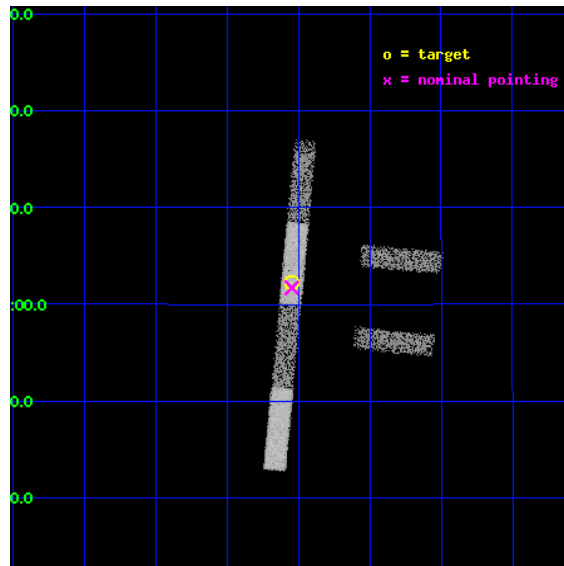
L2 Processing Date : Oct 15 2012

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# 1 Front

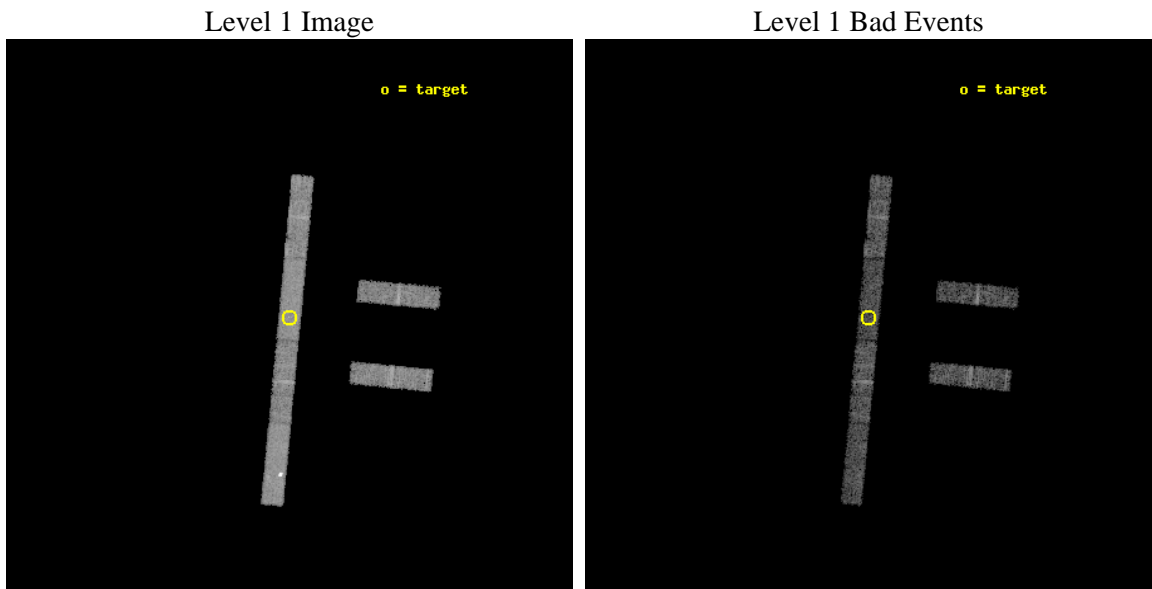
seq_num	700546	Sequence number
obs_id	3107	Observation id
title	X-RAY IMAGING OF GPS AND CSS QUASARS	Proposal title
observer	Dr. Aneta Siemiginowska	Principal investigator
object	Q2127+040	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	322.637083	Observer's specified target RA [deg]
dec_targ	5.038056	Observer's specified target Dec [deg]
ra_nom	322.63631533302	Nominal RA [deg]
dec_nom	5.0283992288205	Nominal Dec [deg]
roll_nom	275.41655215901	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5924.5999678671	Sum of GTIs [s]
livetime	5711.5087680132	Livetime [s]
ontime2	5924.5999678671	Sum of GTIs [s]
ontime3	5924.5418602526	Sum of GTIs [s]
ontime5	5924.5999678671	Sum of GTIs [s]
ontime6	5924.5829002559	Sum of GTIs [s]
ontime7	5924.5999678671	Sum of GTIs [s]
ontime8	5924.5008202791	Sum of GTIs [s]
l2events	23759	Number of level 2 events



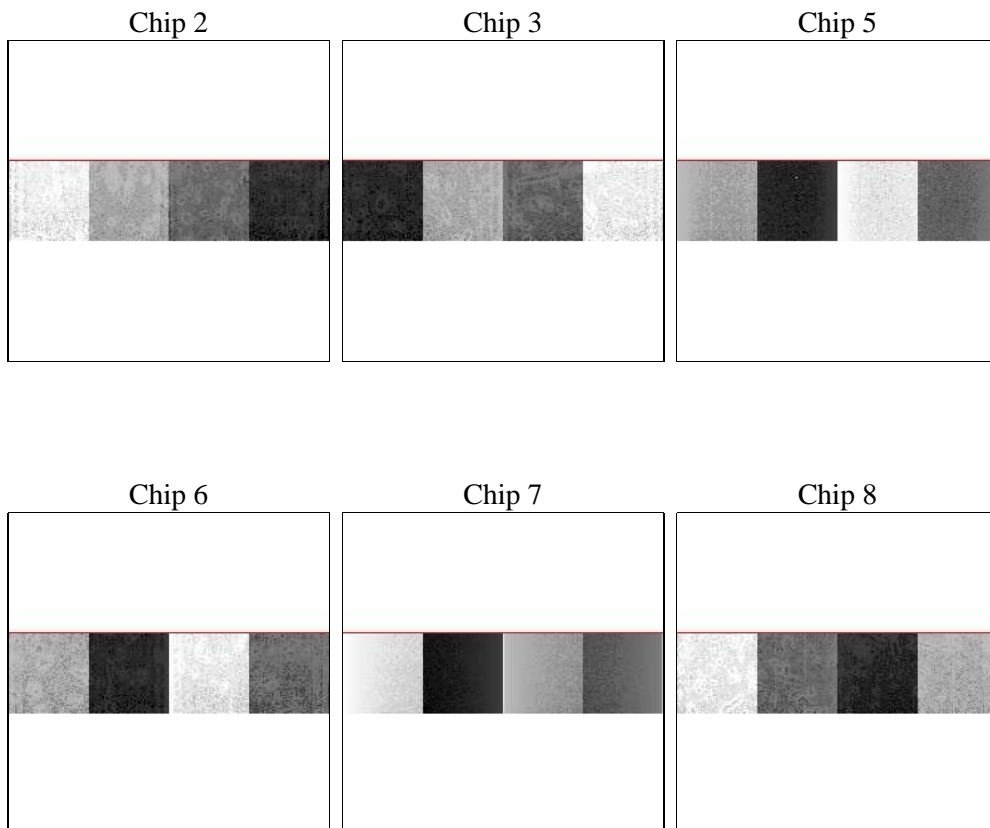
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5373.123000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5924.5999678671	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	5924.5999678671	Sum of GTIs [s]
date	2012-10-15T12:59:50	Date and time of file creation	ontime3	5924.5418602526	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5924.5999678671	Sum of GTIs [s]
			ontime6	5924.5829002559	Sum of GTIs [s]
			ontime7	5924.5999678671	Sum of GTIs [s]
			ontime8	5924.5008202791	Sum of GTIs [s]
			l1events	93542	Number of level 1 events

### 2.1.4 Events

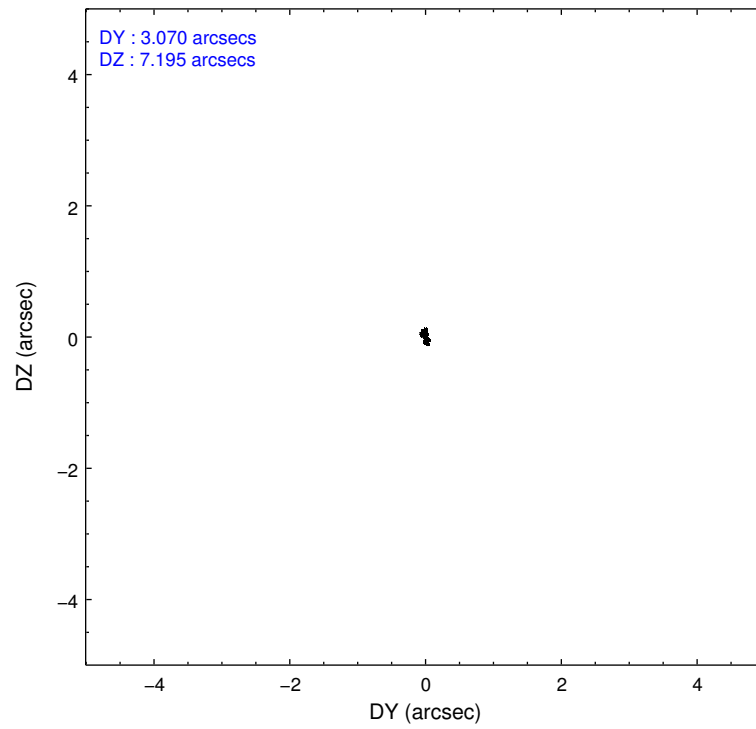
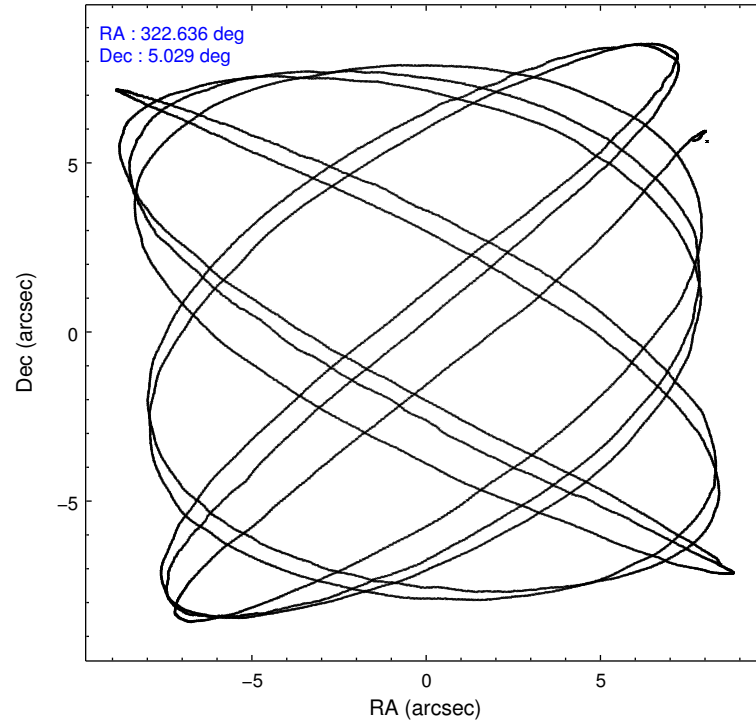
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	13564	11370	22642	13224	16979	15763
rejected events	11876	9791	8288	11394	8198	12687
rejected %	87%	86%	36%	86%	48%	80%

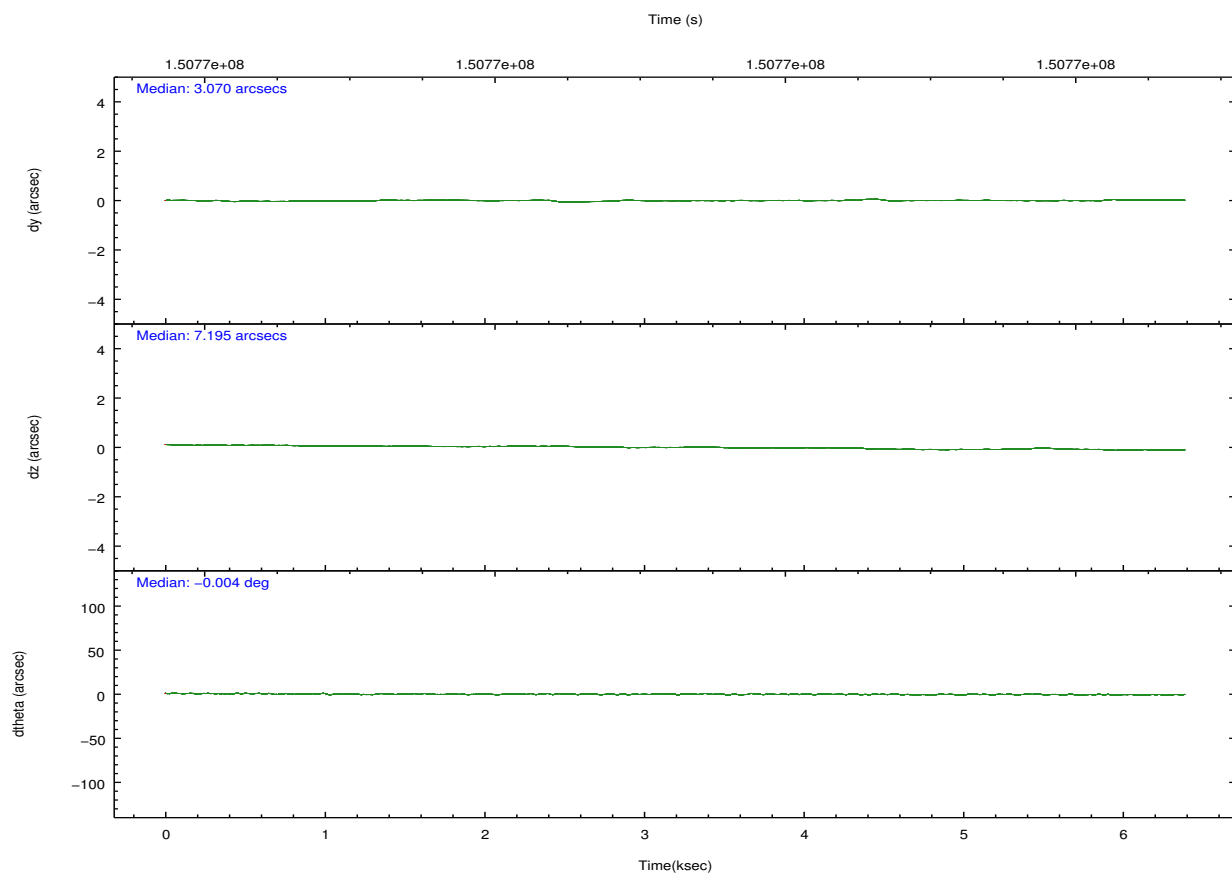
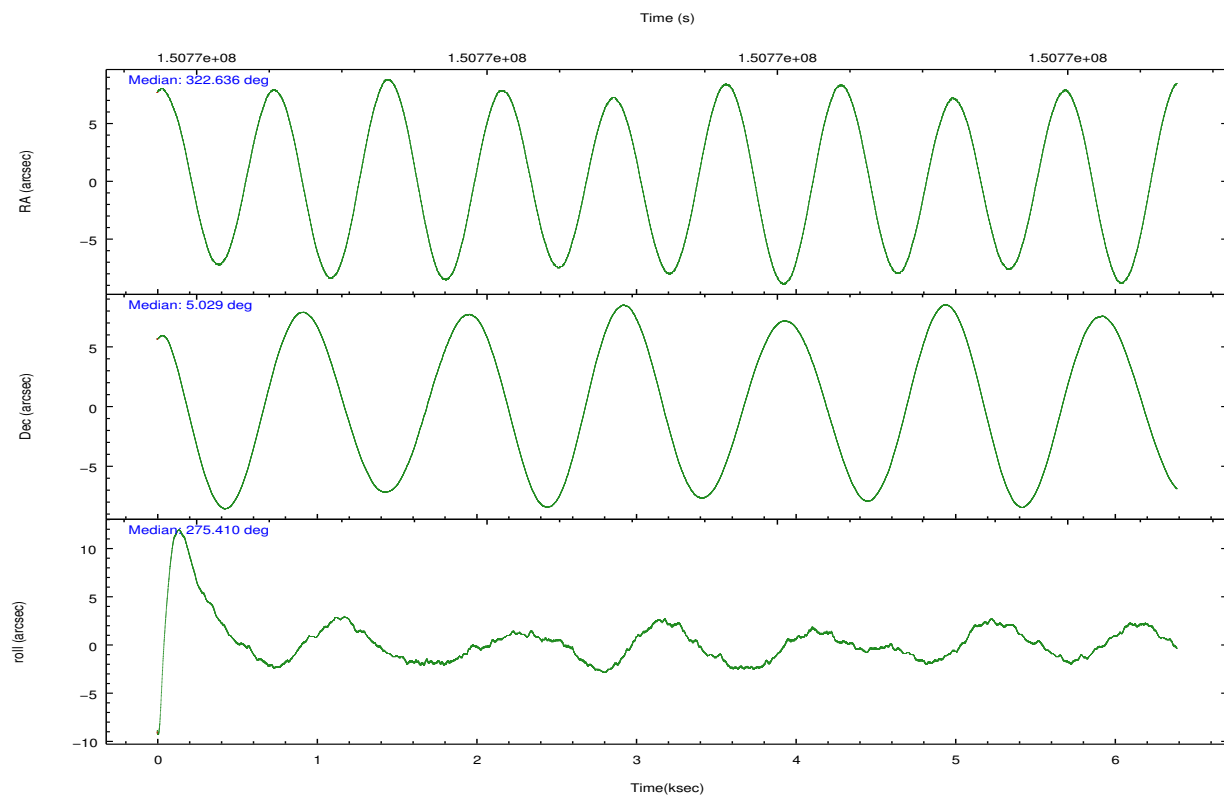
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	771	758	5489	891	1030	1069
	5%	6%	24%	6%	6%	6%
grade 1 events	12	7	54	6	20	8
	0%	0%	0%	0%	0%	0%
grade 2 events	297	250	3189	263	1744	577
	2%	2%	14%	1%	10%	3%
grade 3 events	182	191	672	224	818	307
	1%	1%	2%	1%	4%	1%
grade 4 events	209	177	597	194	885	284
	1%	1%	2%	1%	5%	1%
grade 5 events	448	433	1272	478	1372	603
	3%	3%	5%	3%	8%	3%
grade 6 events	229	204	4410	258	4307	853
	1%	1%	19%	1%	25%	5%
grade 7 events	11416	9350	6959	10910	6803	12062
	84%	82%	30%	82%	40%	76%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	322.620149	322.636315333022	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	5.050389	5.028399228820512	Subarray start row	385	385
[deg] Pointing Roll	275.261371	275.4165521590105	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1.1
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	150769061.184000	150767686.01336			
Observation start date	2002-10-12T00:16:37	2002-10-11T23:54:46			
[s] Observation end time (MET)	150774434.184000	150774749.28865			
Observation end date	2002-10-12T01:46:10	2002-10-12T01:52:29			
Read mode	TIMED	TIMED			

## 2.3 Aspect



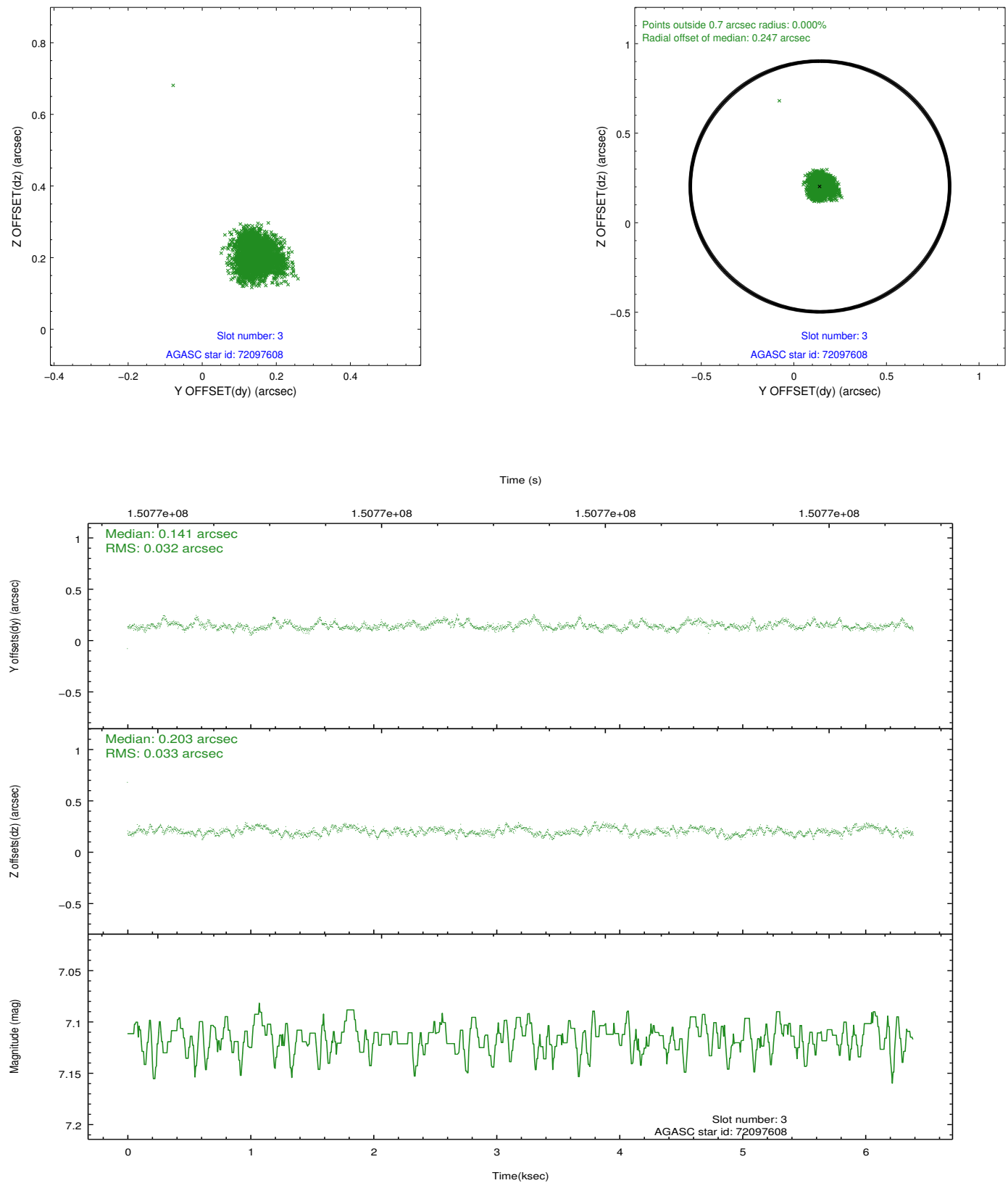


### Slot Statistics

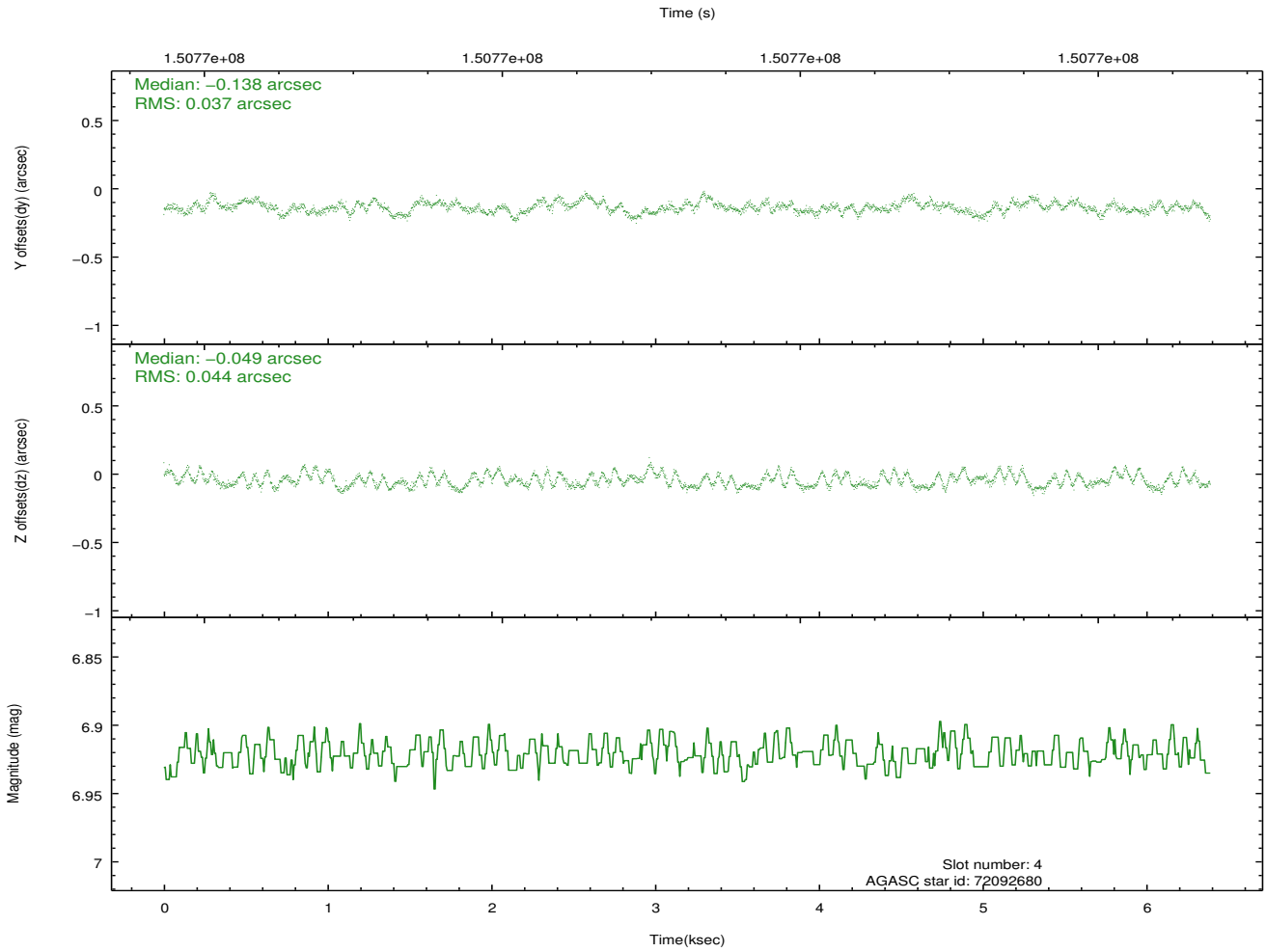
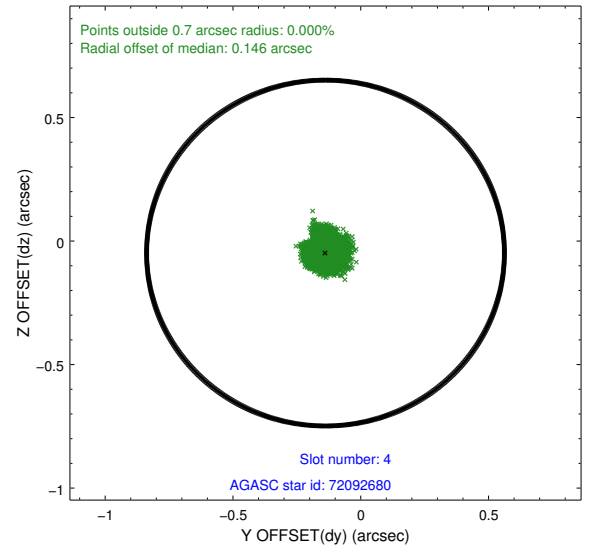
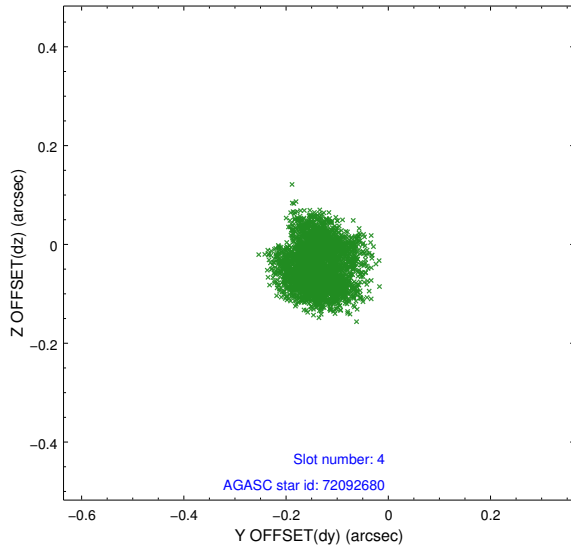
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1559	-0.019	0.001	0.007	0.010	0.000000	0.000000	-755.73	-1728.36
1	FID	ACIS-S-4	7.20	1559	0.001	0.009	0.005	0.010	0.000000	0.000000	2157.15	179.18
2	FID	ACIS-S-5	7.24	1559	-0.014	-0.001	0.006	0.011	0.000000	0.000000	-1807.38	173.88
3	GUIDE	72097608	7.11	3118	0.141	0.203	0.049	0.078	323.296203	4.563178	1968.86	2256.62
4	GUIDE	72092680	6.92	3118	-0.138	-0.049	0.063	0.096	322.788468	5.579192	-1839.00	776.61
5	GUIDE	70388496	8.84	3118	0.018	-0.156	0.068	0.113	322.220710	5.171318	-564.60	-1385.09
6	GUIDE	70387856	8.99	3116	-0.090	0.145	0.073	0.119	322.345857	5.531253	-1813.31	-819.49
7	GUIDE	70388568	9.57	3114	0.065	-0.148	0.111	0.179	322.014493	4.667209	1174.29	-2289.80

## 2.4 Star Slots

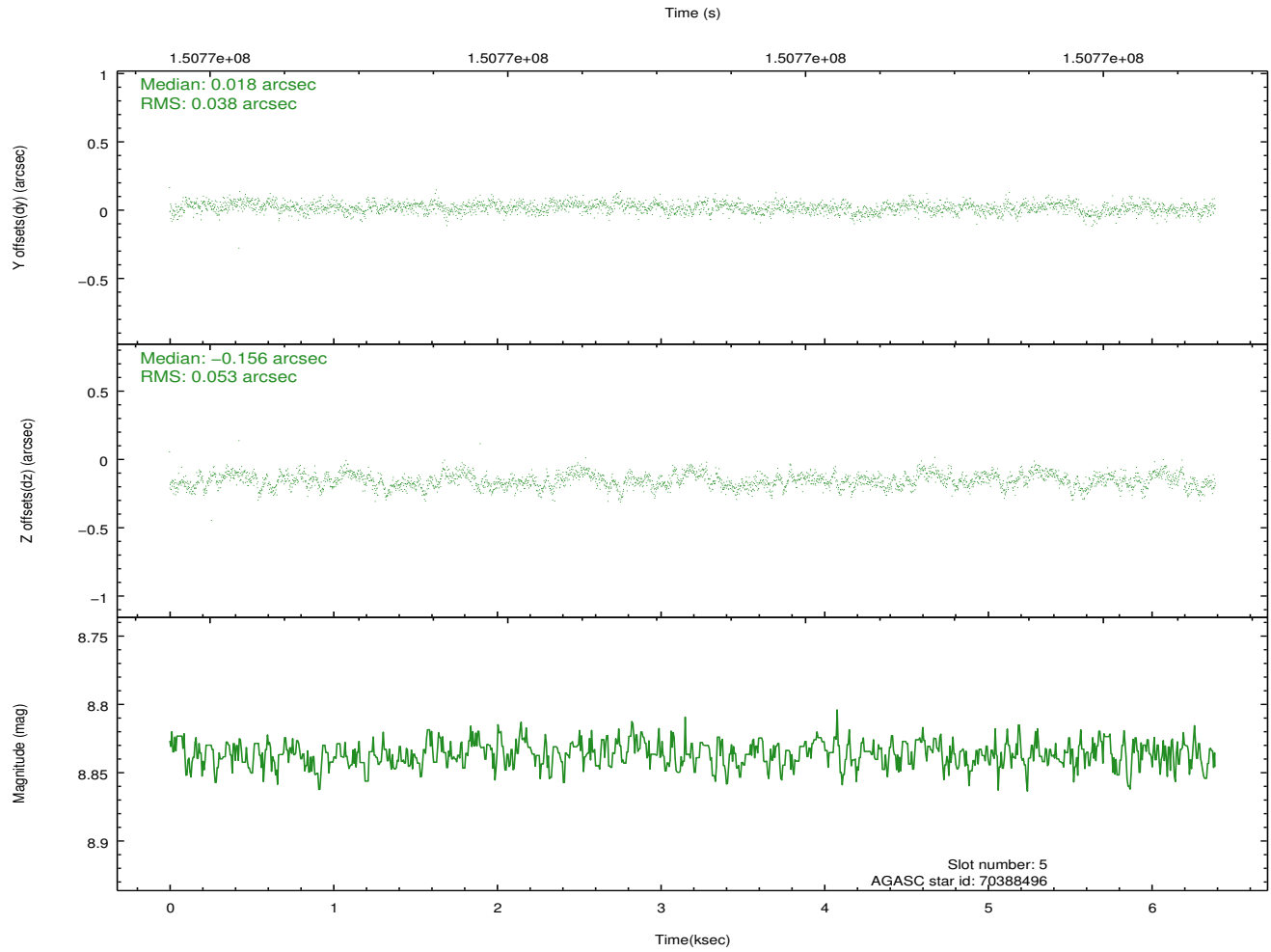
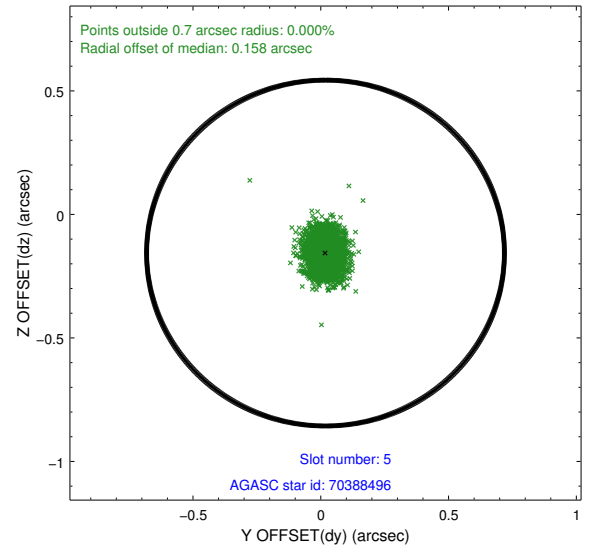
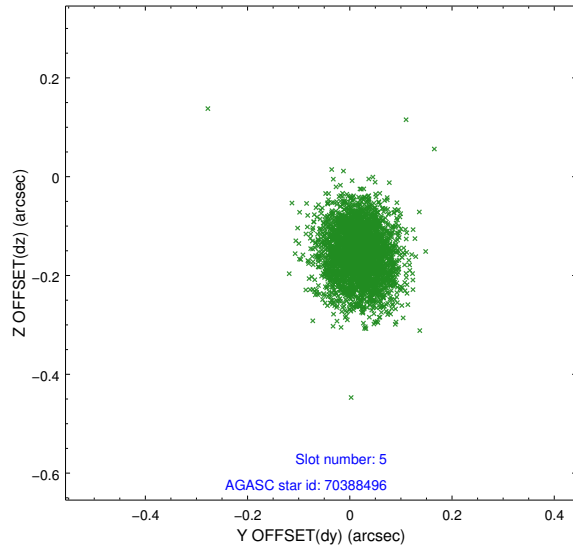
### 2.4.1 Slot 3



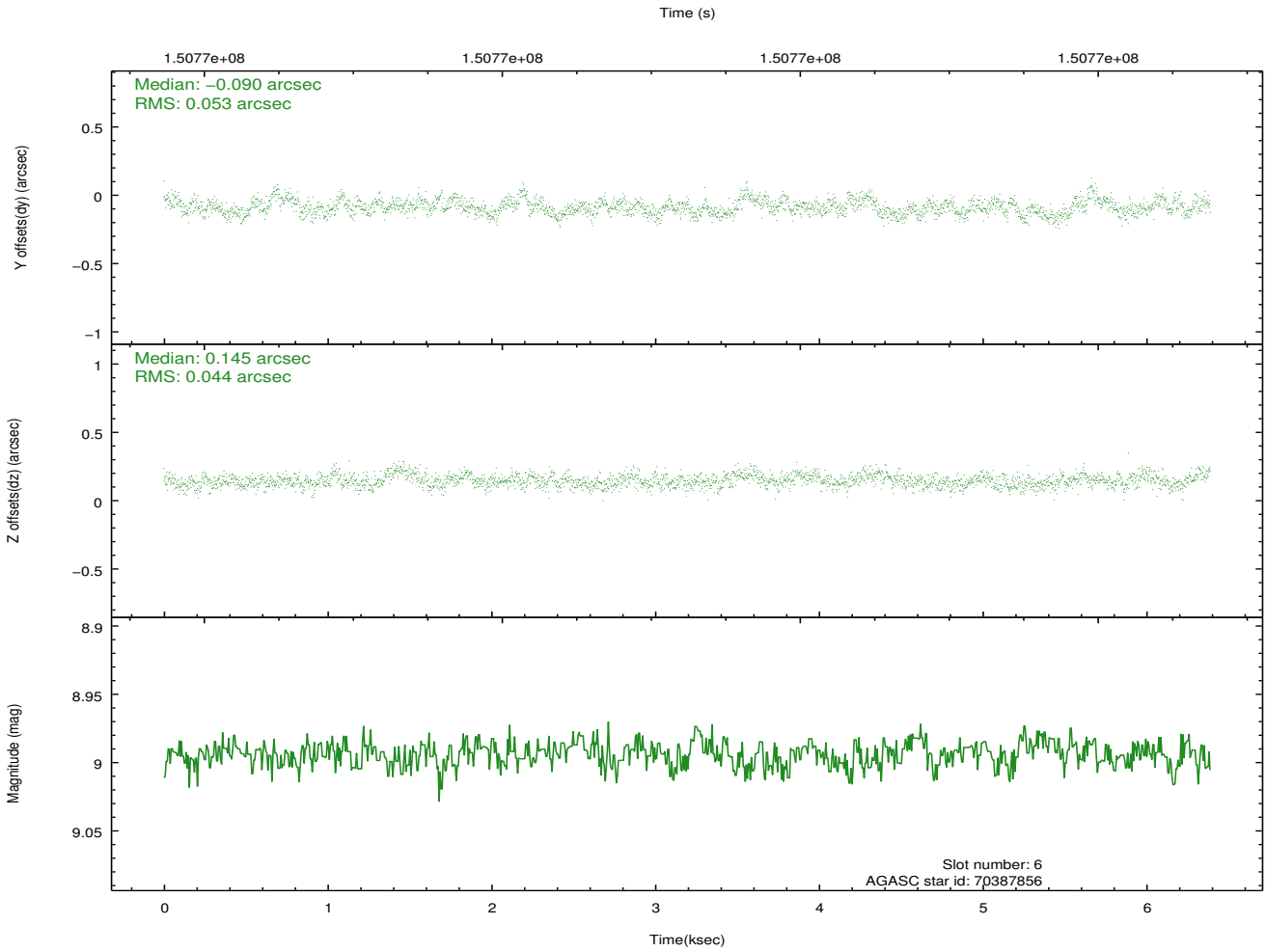
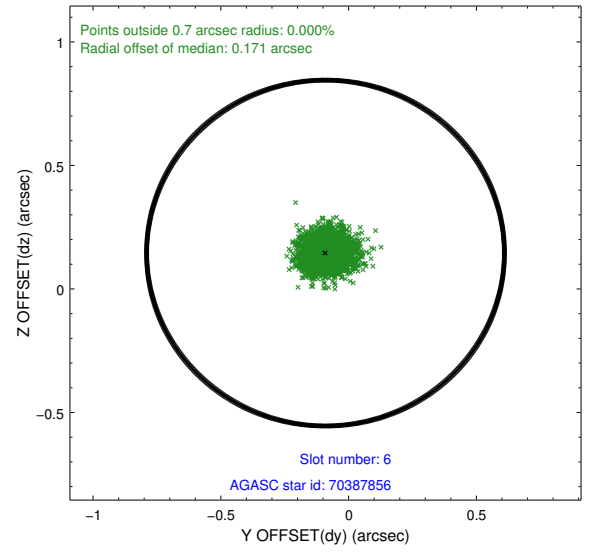
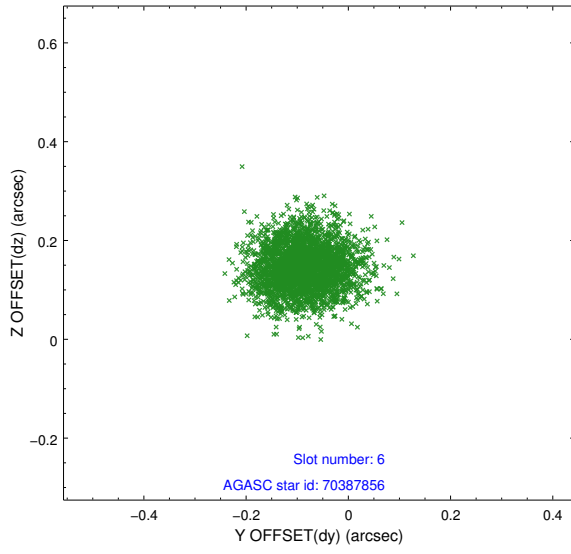
## 2.4.2 Slot 4



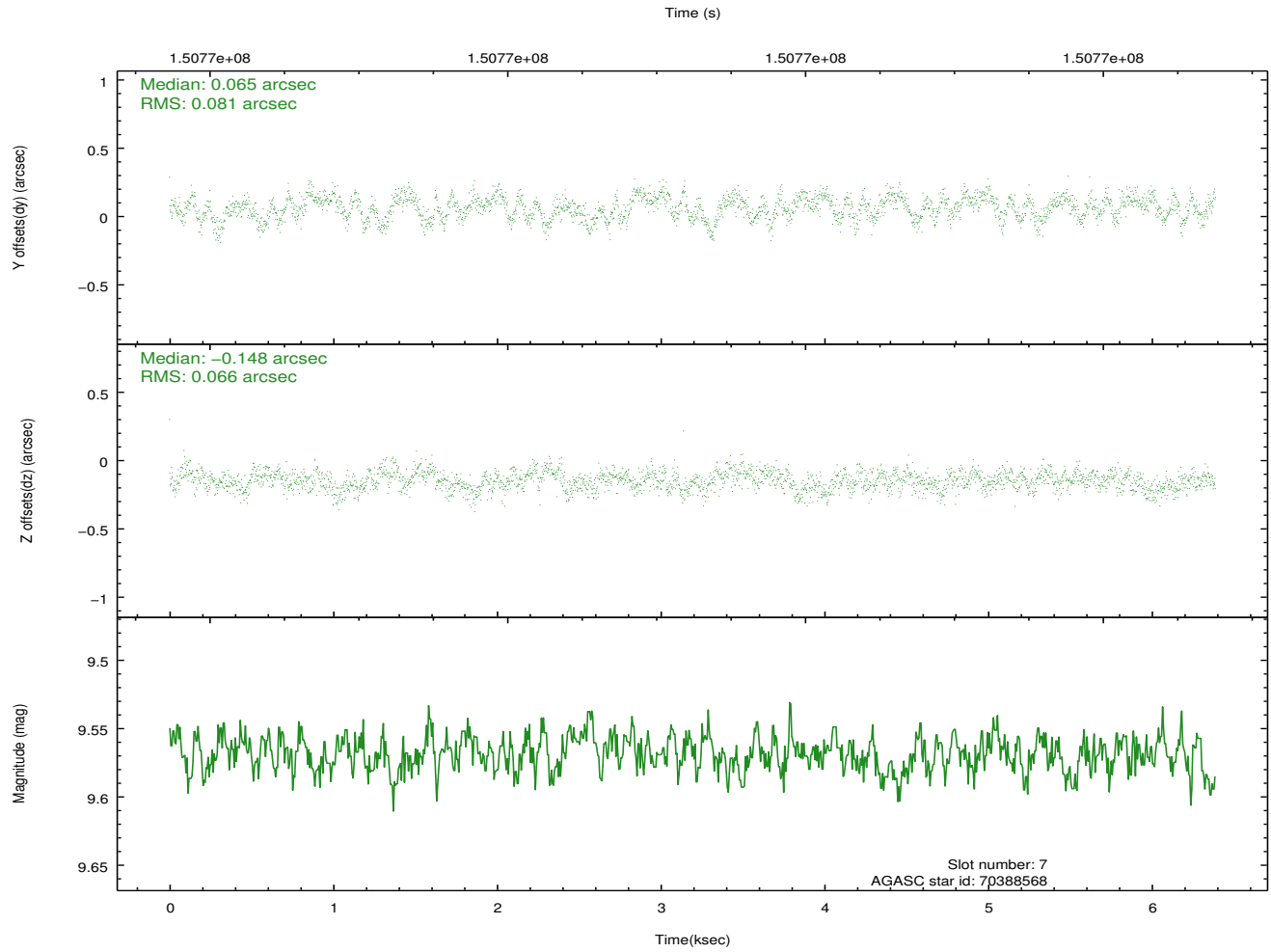
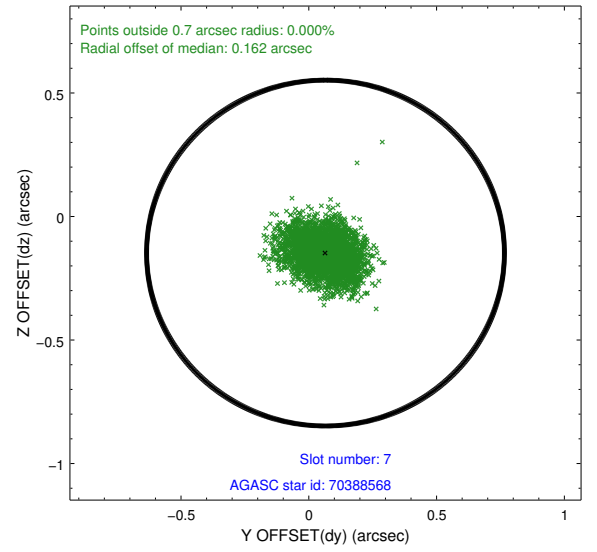
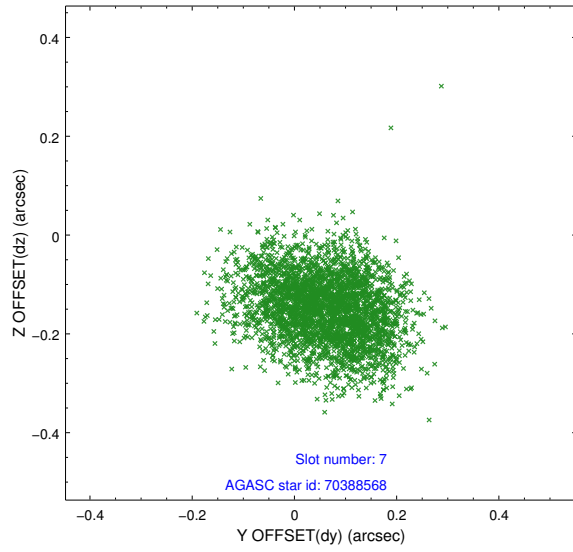
### 2.4.3 Slot 5



## 2.4.4 Slot 6

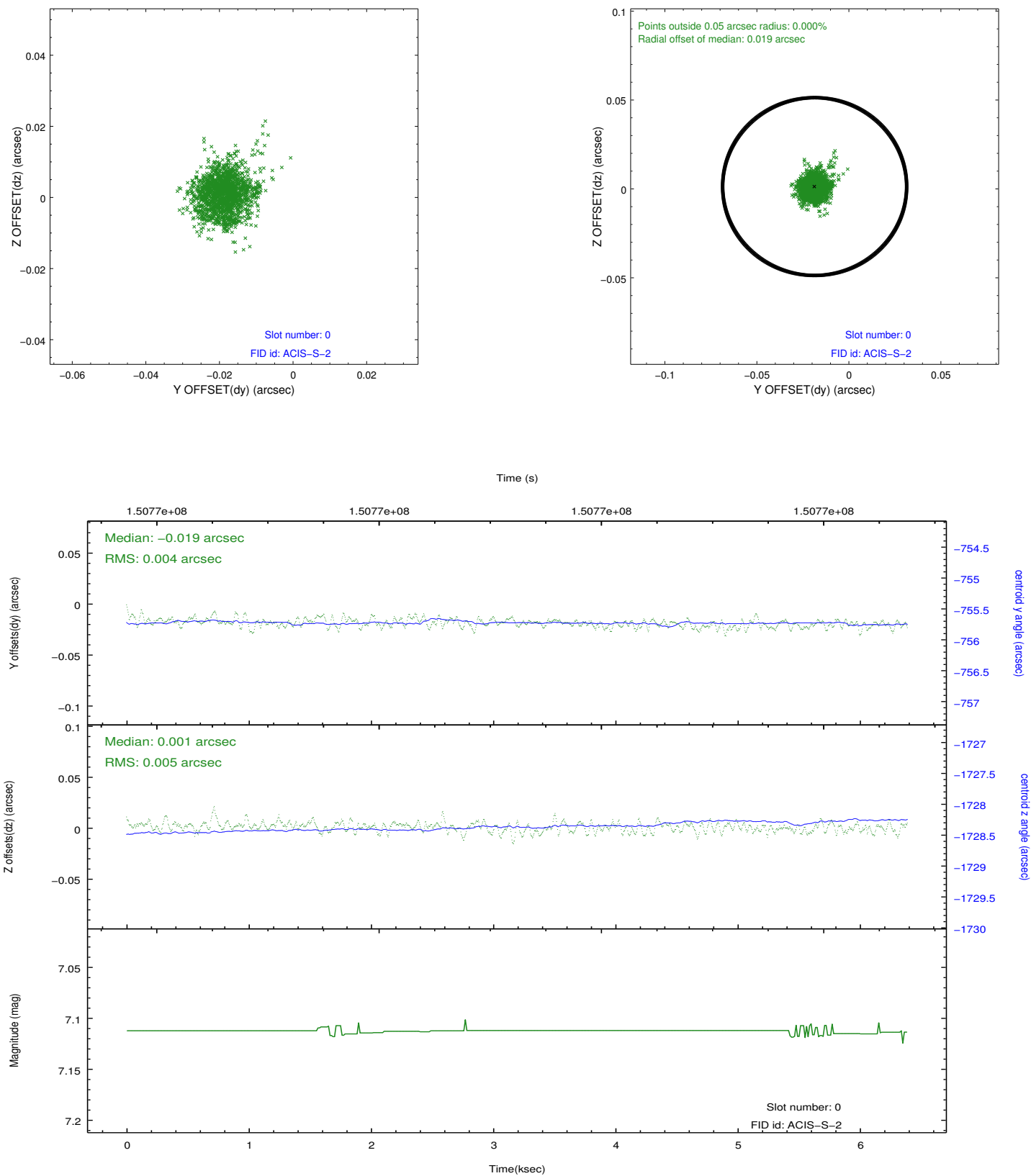


## 2.4.5 Slot 7

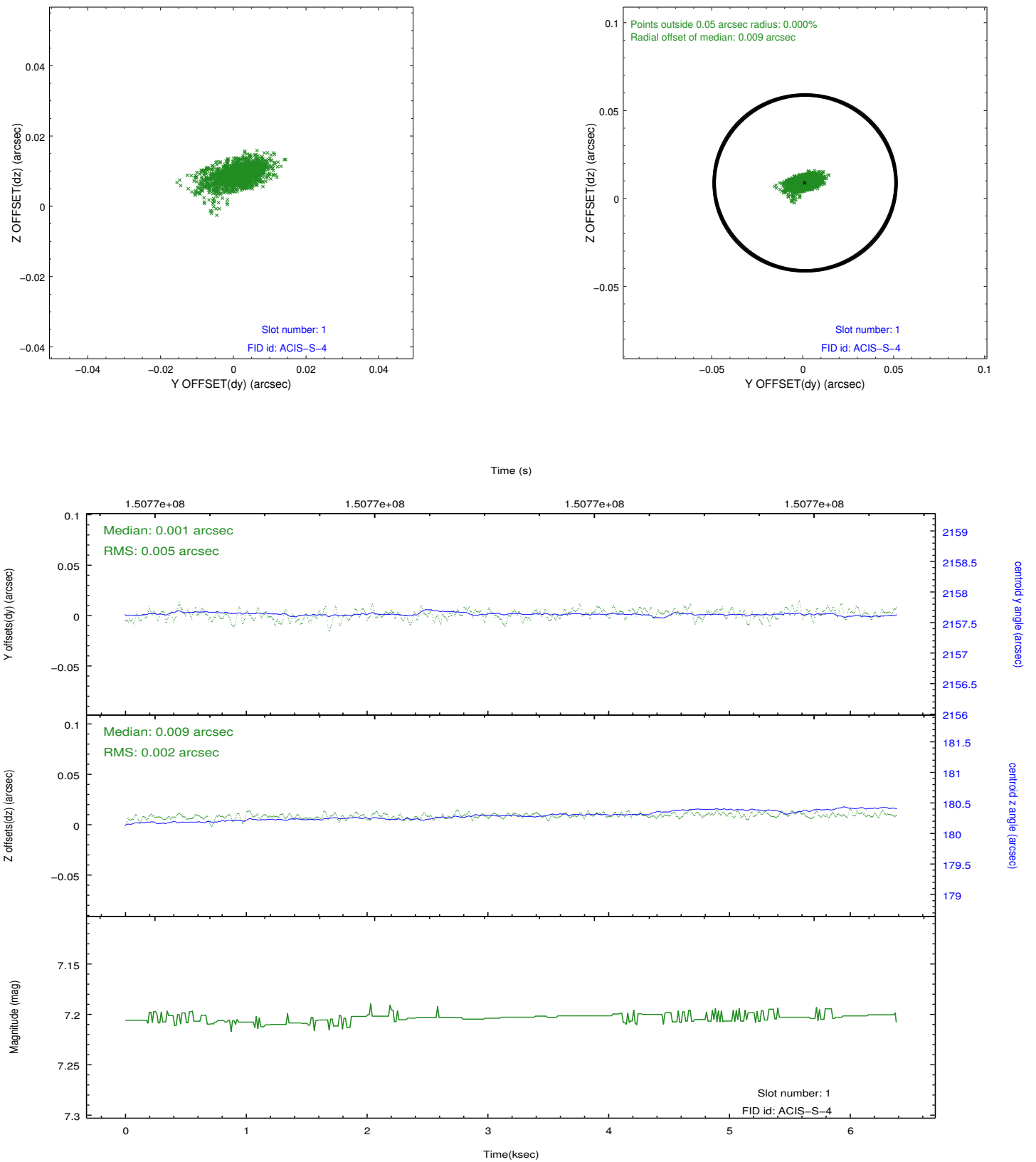


## 2.5 FID Slots

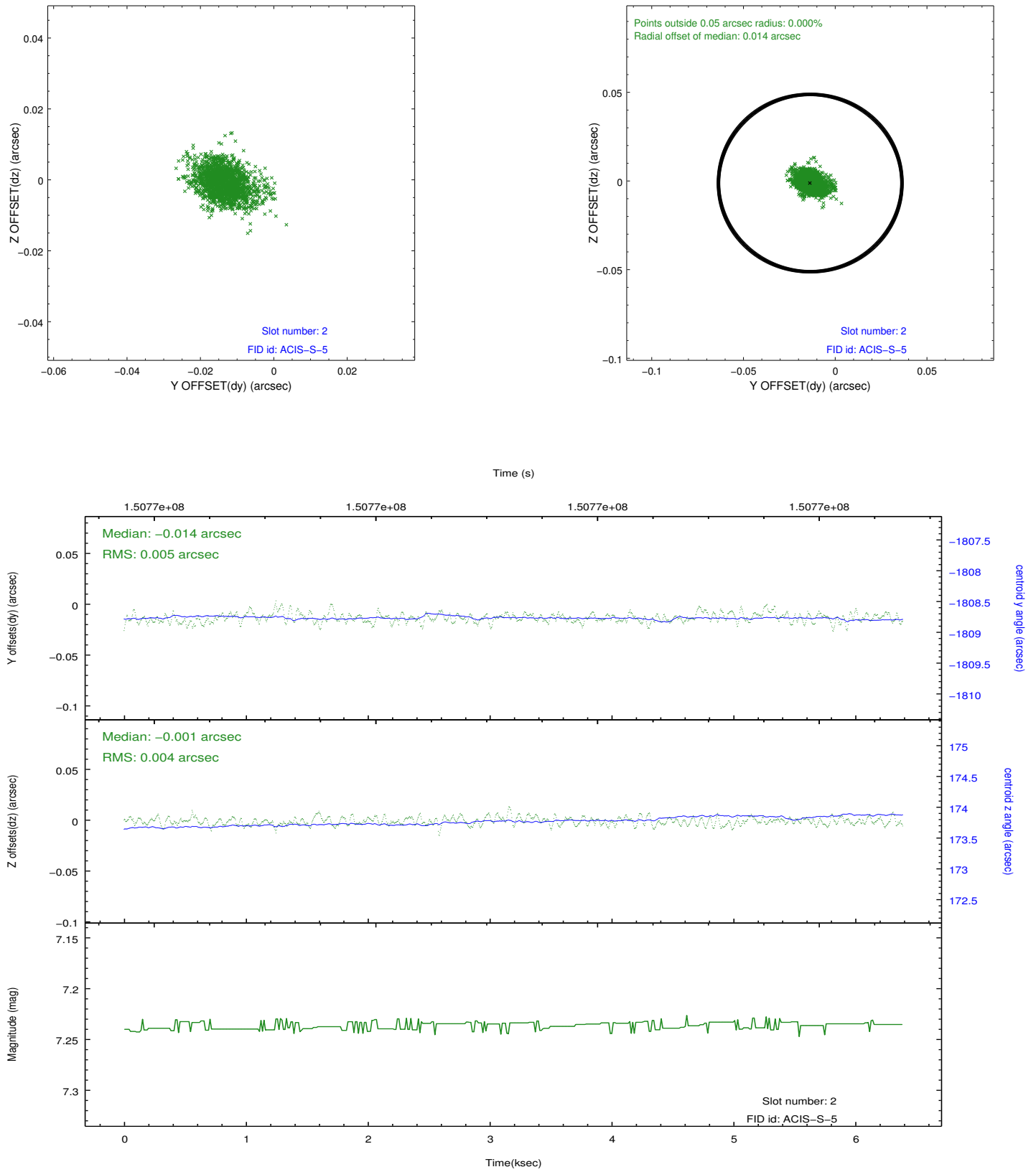
### 2.5.1 Slot 0



## 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)	2012.10.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.925

## A.2 Comments

Joint proposal with HST and NOAO.