

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2179 - L2 Version 3  
Chandra X-Ray Center

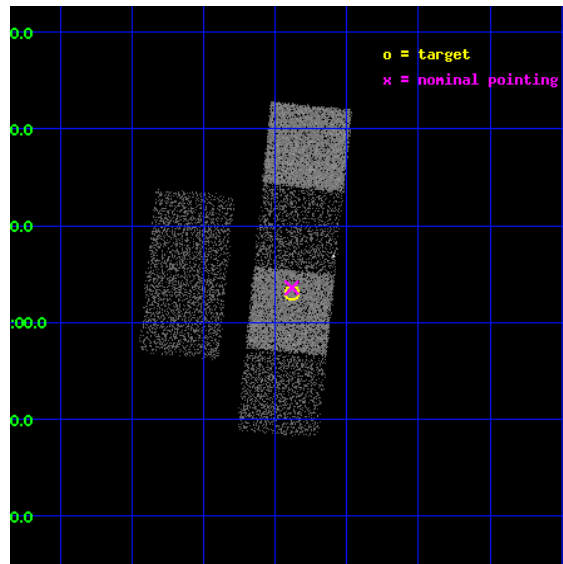
L2 Processing Date : Sep 24 2012

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# 1 Front

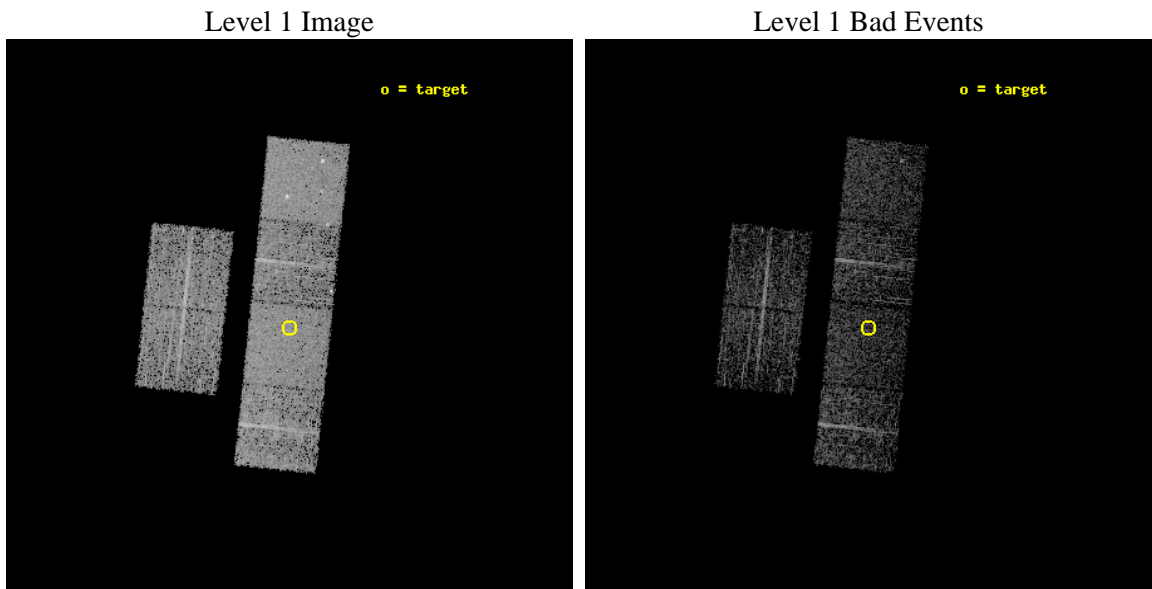
seq_num	700369	Sequence number
obs_id	2179	Observation id
title	SURVEY OF RADIO QUIET Z>4 QUASARS	Proposal title
observer	Dr. Jill Bechtold	Principal investigator
object	PSS 0059+0003	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	14.845	Observer's specified target RA [deg]
dec_targ	0.050278	Observer's specified target Dec [deg]
ra_nom	14.845834312323	Nominal RA [deg]
dec_nom	0.059847760359649	Nominal Dec [deg]
roll_nom	95.943127515186	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2713.6000025123	Sum of GTIs [s]
livetime	2679.2387653468	Livetime [s]
ontime2	2713.6000025123	Sum of GTIs [s]
ontime3	2710.3590322584	Sum of GTIs [s]
ontime5	2713.6000025123	Sum of GTIs [s]
ontime6	2713.6000025123	Sum of GTIs [s]
ontime7	2713.6000025123	Sum of GTIs [s]
ontime8	2713.6000025123	Sum of GTIs [s]
l2events	27753	Number of level 2 events



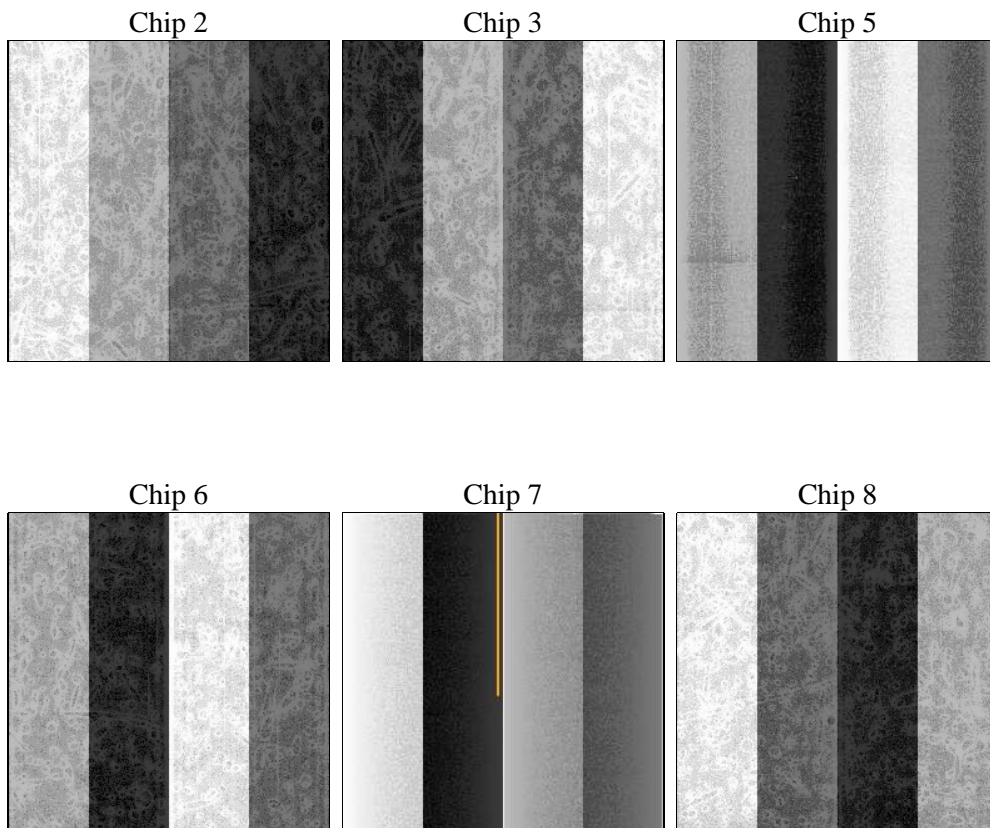
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2800.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2713.6000025123	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	2713.6000025123	Sum of GTIs [s]
date	2012-09-24T09:39:36	Date and time of file creation	ontime3	2710.3590322584	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	2713.6000025123	Sum of GTIs [s]
			ontime6	2713.6000025123	Sum of GTIs [s]
			ontime7	2713.6000025123	Sum of GTIs [s]
			ontime8	2713.6000025123	Sum of GTIs [s]
			l1events	126201	Number of level 1 events

### 2.1.4 Events

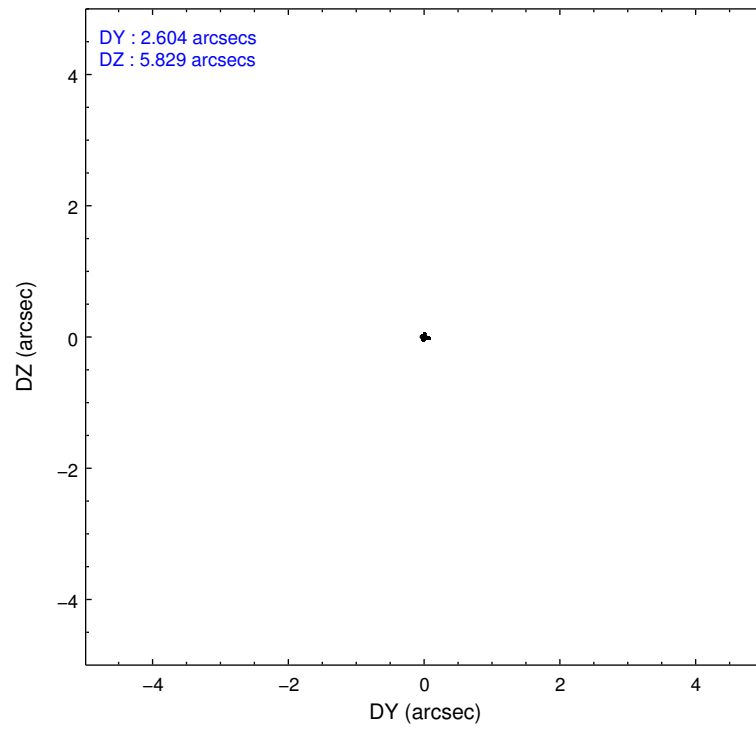
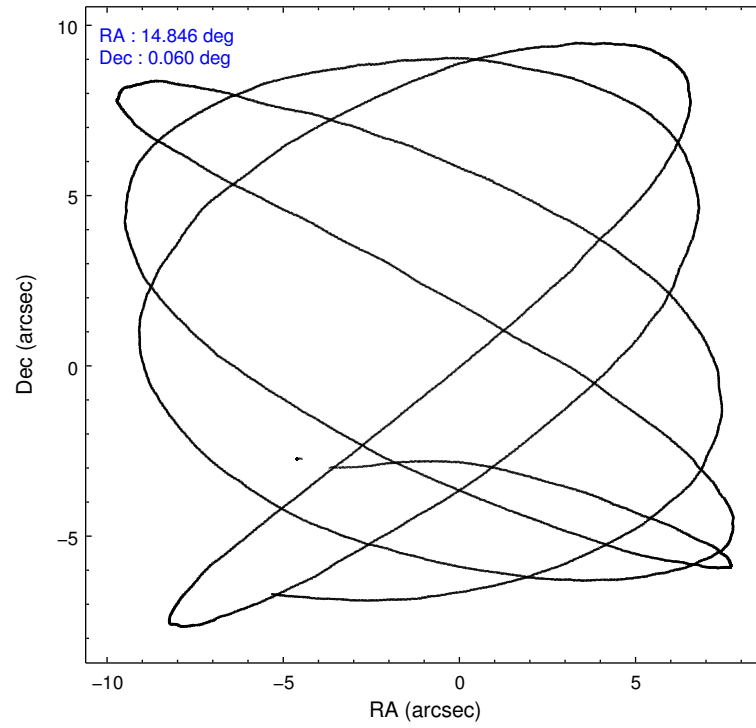
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	18038	17883	26325	18447	23045	22463	grade 0 events	868	796	1523	1137	885	1391
rejected events	16009	15923	13990	16021	13484	17894		4%	4%	5%	6%	3%	6%
rejected %	88%	89%	53%	86%	58%	79%	grade 1 events	14	2	57	11	18	8
								0%	0%	0%	0%	0%	0%
							grade 2 events	405	401	3642	423	1915	1055
								2%	2%	13%	2%	8%	4%
							grade 3 events	204	188	518	216	874	489
								1%	1%	1%	1%	3%	2%
							grade 4 events	185	208	483	236	801	435
								1%	1%	1%	1%	3%	1%
							grade 5 events	678	667	1902	688	2156	928
								3%	3%	7%	3%	9%	4%
							grade 6 events	369	373	6190	420	5100	1204
								2%	2%	23%	2%	22%	5%
							grade 7 events	15315	15248	12010	15316	11296	16953
								84%	85%	45%	83%	49%	75%

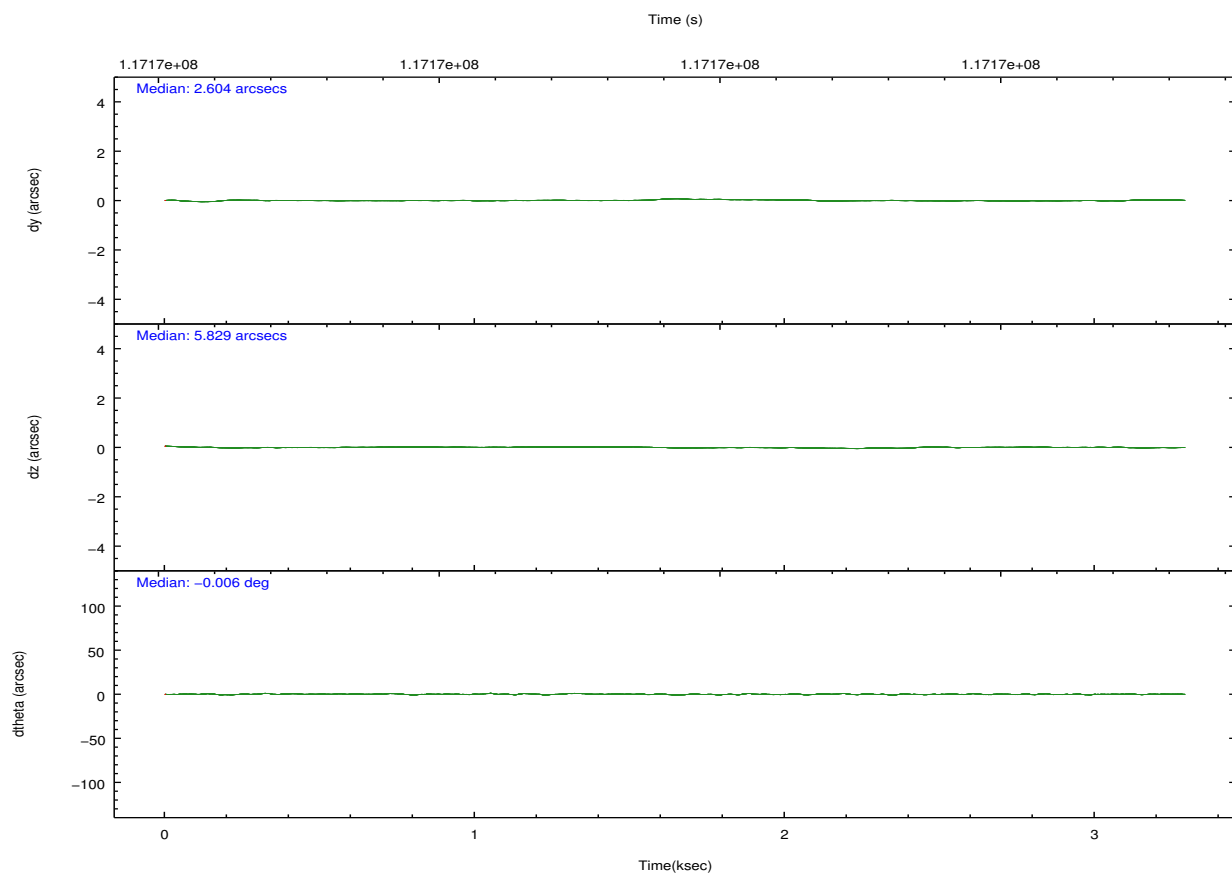
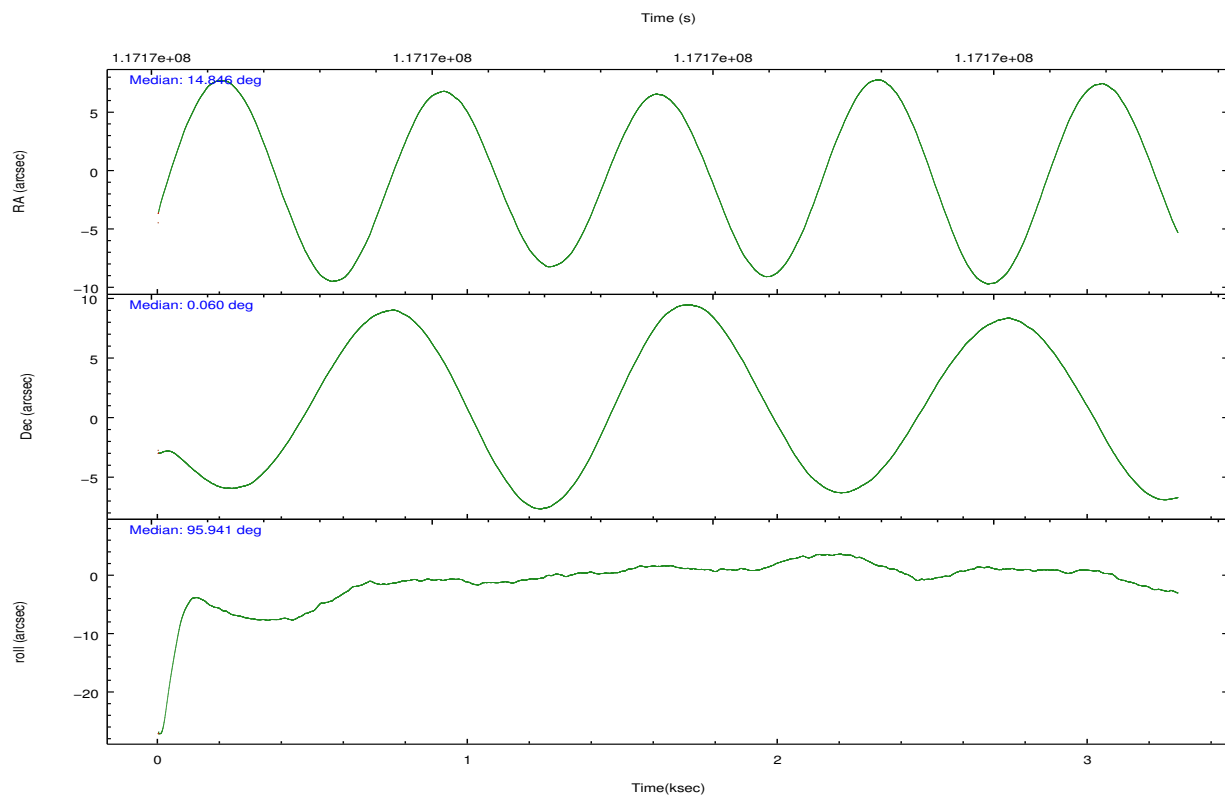


## 2.2 Compared Parameters

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	14.861982	14.845834312323	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.038091	0.059847760359649	Alternating exposures requested	N	N
[deg] Pointing Roll	95.786547	95.94312751518584	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	117169685.184000	117168575.6881			
Observation start date	2001-09-18T03:07:01	2001-09-18T02:49:35			
[s] Observation end time (MET)	117172485.184000	117172670.56326			
Observation end date	2001-09-18T03:53:41	2001-09-18T03:57:50			
Read mode	TIMED	TIMED			

## 2.3 Aspect



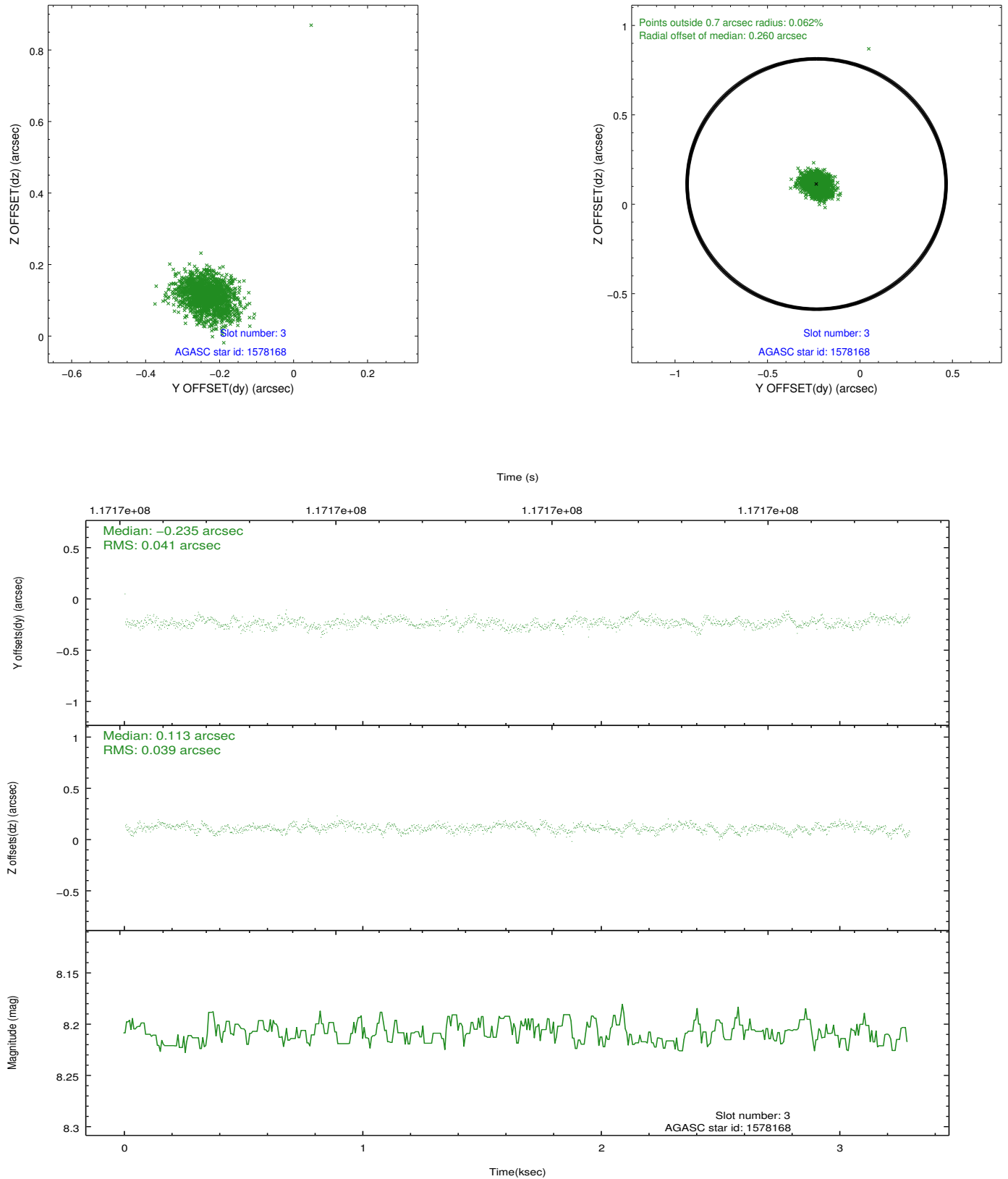


### Slot Statistics

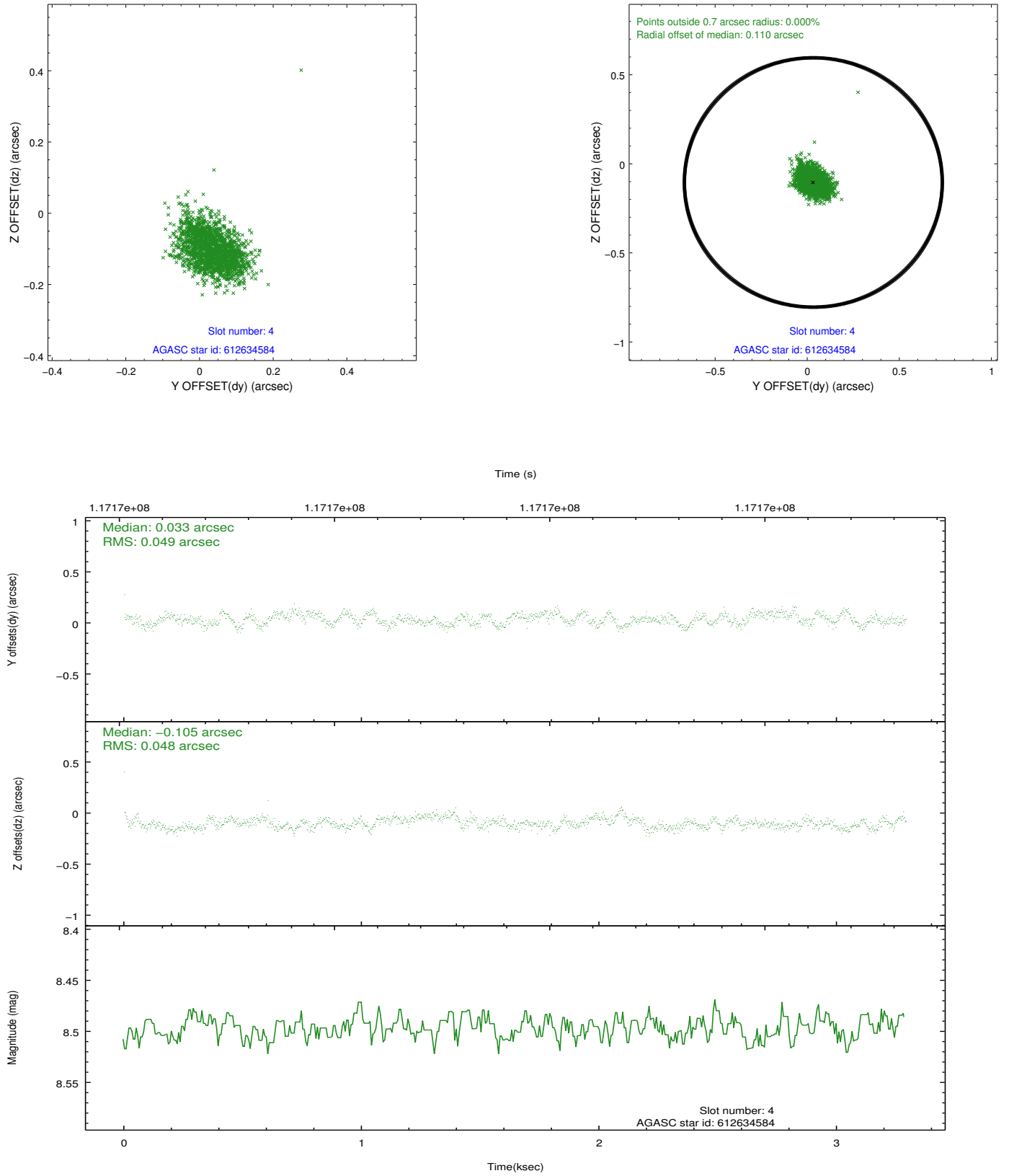
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	803	-0.041	-0.002	0.008	0.013	0.000000	0.000000	-755.23	-1726.98
1	FID	ACIS-S-4	7.20	803	-0.019	0.020	0.009	0.015	0.000000	0.000000	2157.14	179.61
2	FID	ACIS-S-5	7.24	803	0.029	-0.009	0.008	0.013	0.000000	0.000000	-1805.57	175.34
3	GUIDE	1578168	8.21	1606	-0.235	0.113	0.057	0.091	14.902539	0.670706	2250.92	-374.78
4	GUIDE	612634584	8.50	1606	0.033	-0.105	0.072	0.114	14.779562	-0.145020	-624.46	361.19
5	GUIDE	612634776	9.34	1604	0.160	-0.199	0.116	0.188	14.252004	-0.472149	-1606.48	2369.77
6	GUIDE	1581416	10.26	1603	0.009	0.032	0.149	0.234	14.987380	0.673896	2230.70	-678.35
7	GUIDE	613556408	9.10	1605	0.024	0.154	0.097	0.148	15.393003	-0.320388	-1475.27	-1772.42

## 2.4 Star Slots

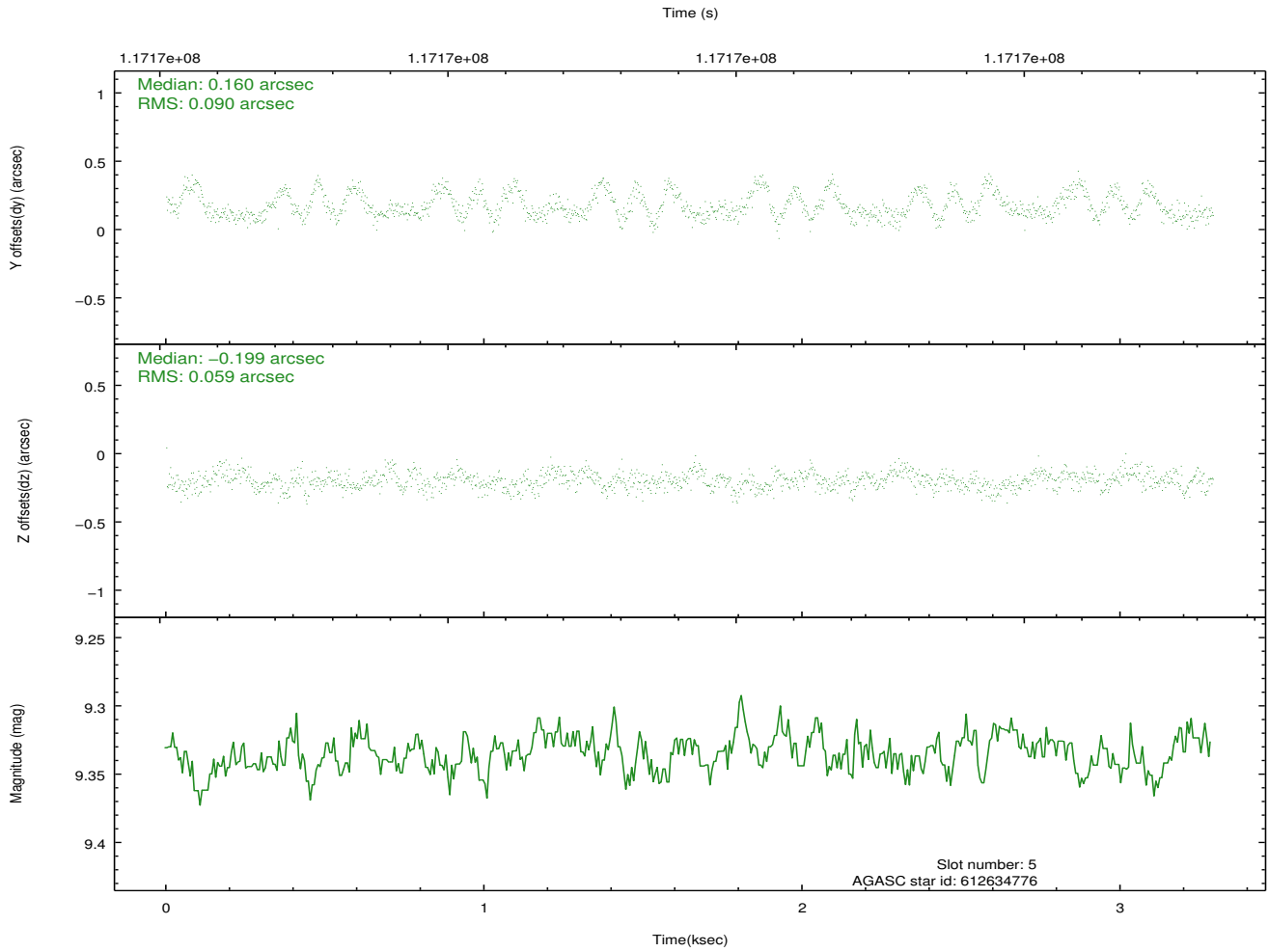
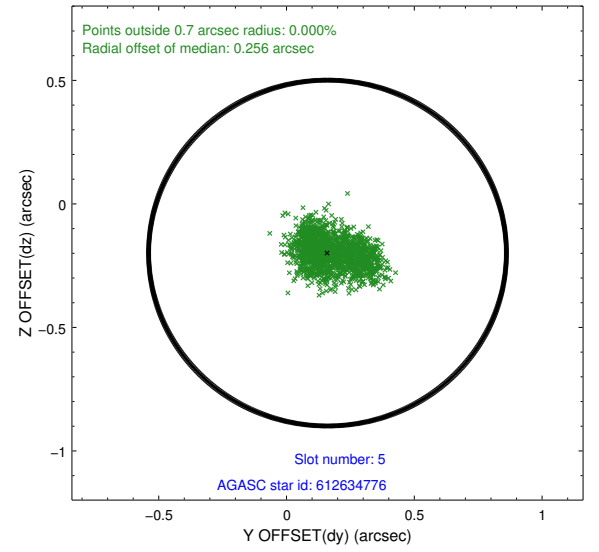
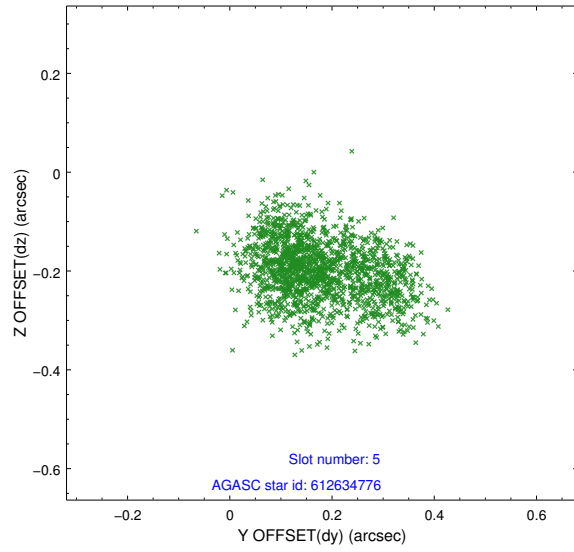
### 2.4.1 Slot 3



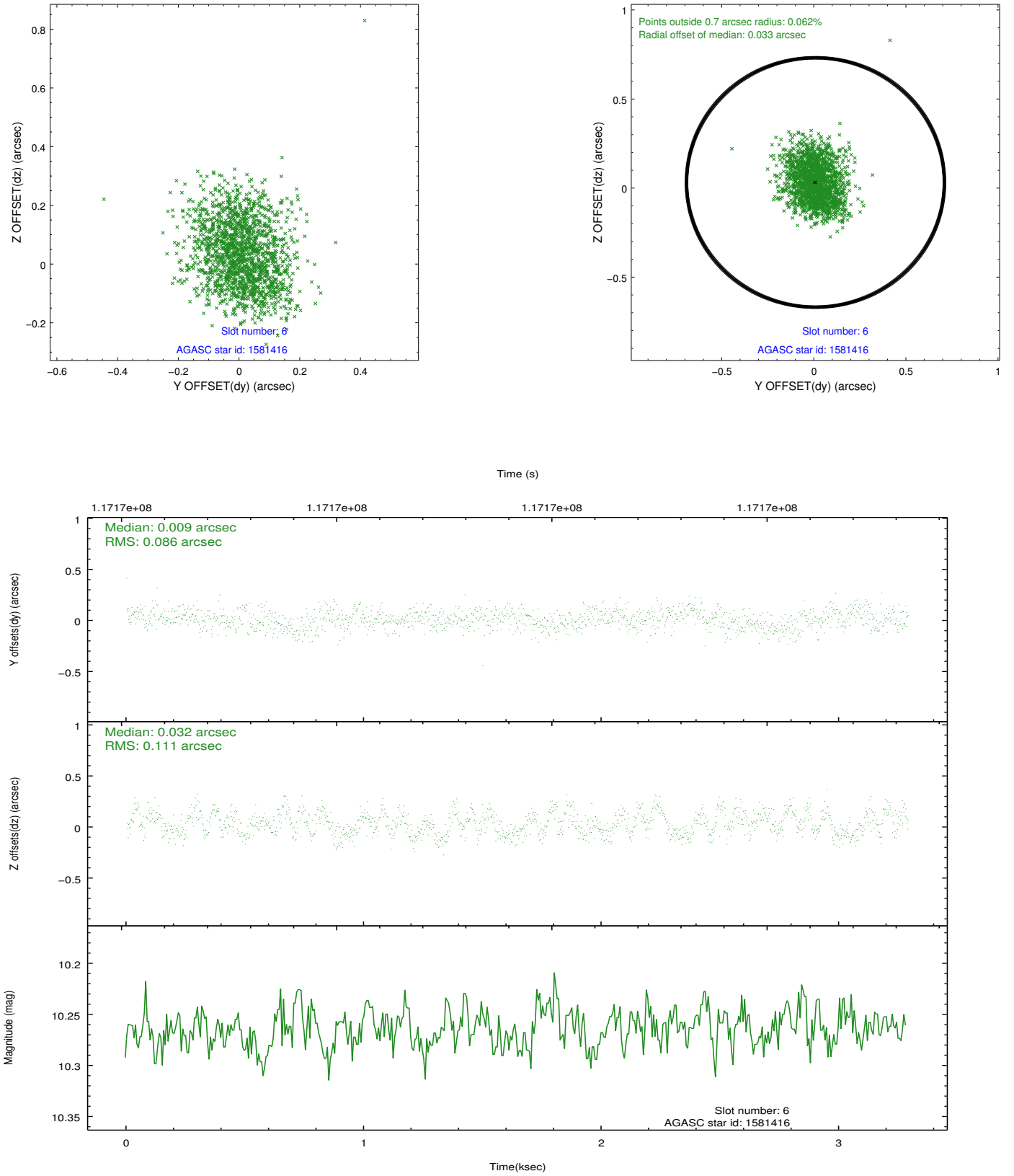
## 2.4.2 Slot 4



### 2.4.3 Slot 5

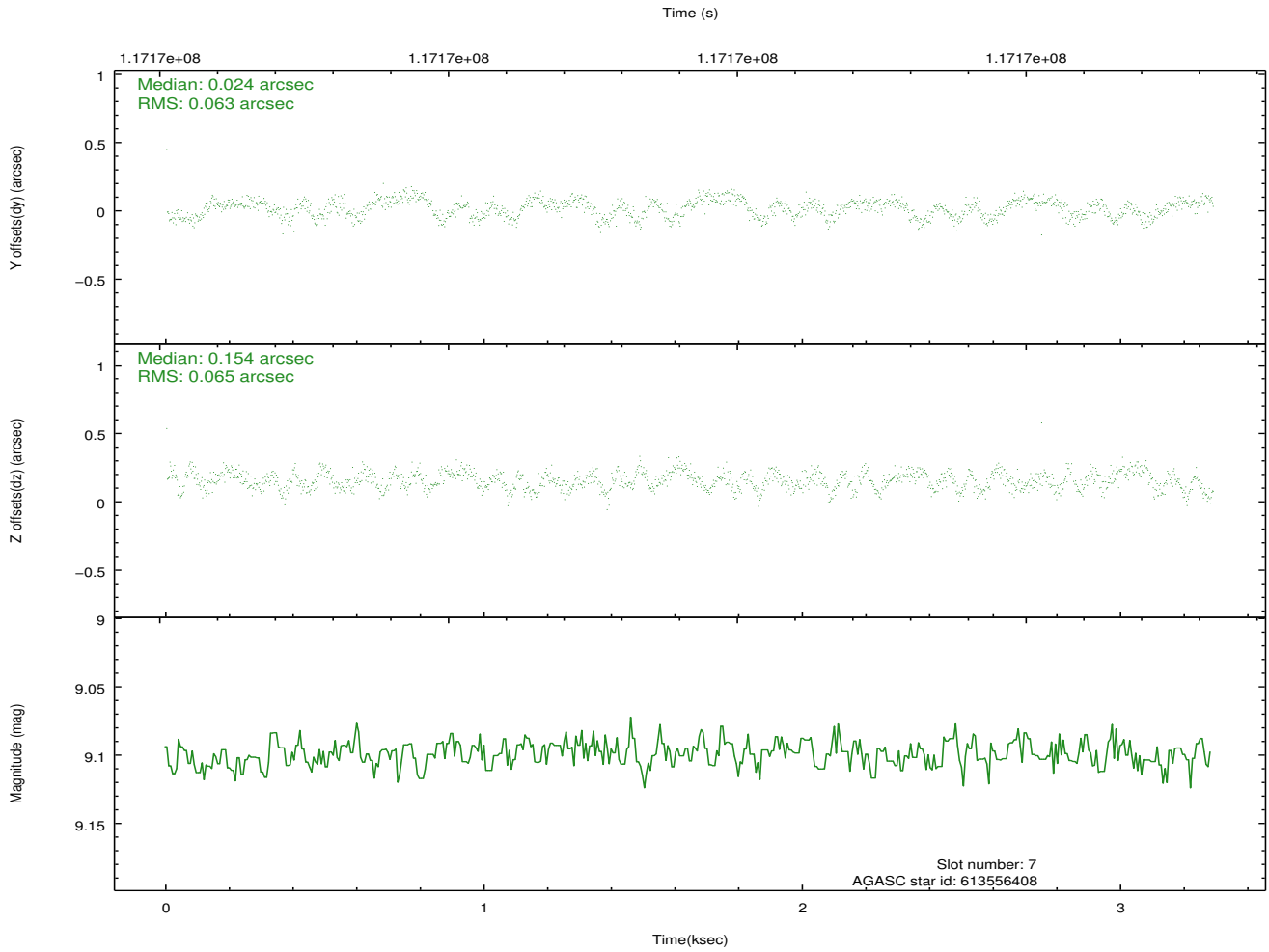
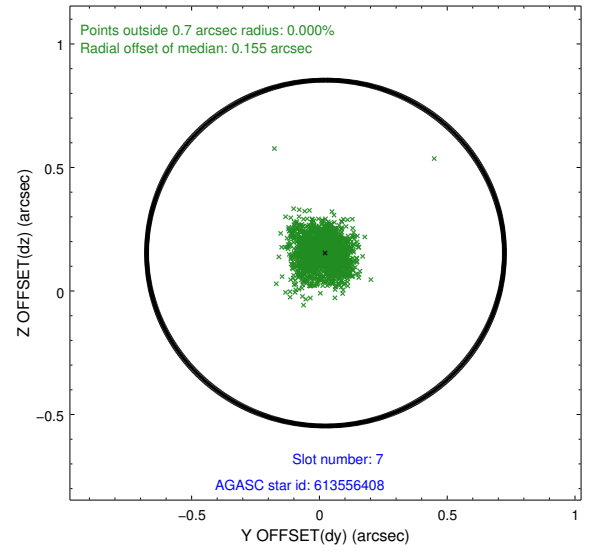
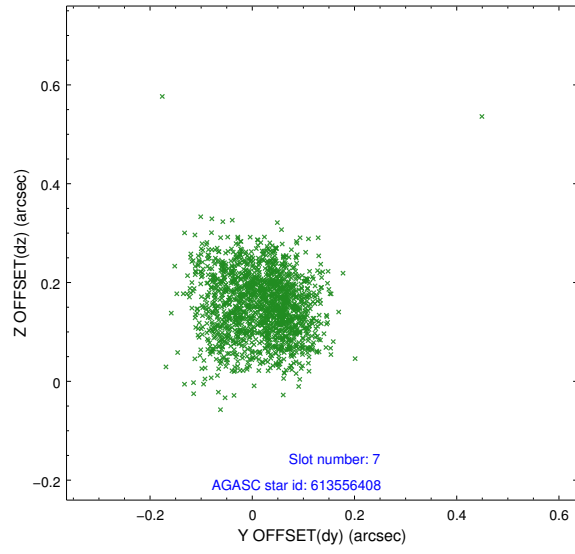


## 2.4.4 Slot 6



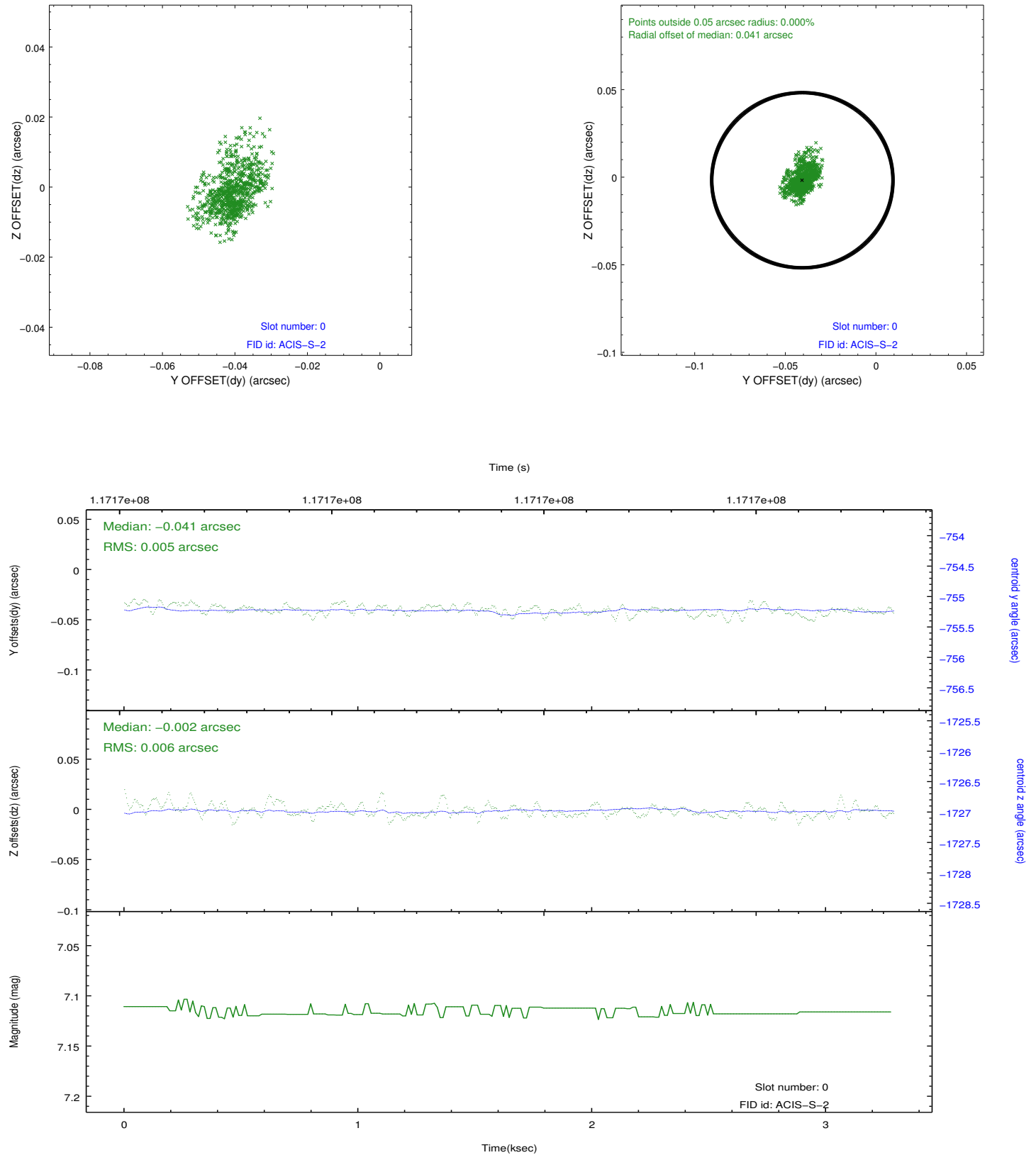


## 2.4.5 Slot 7

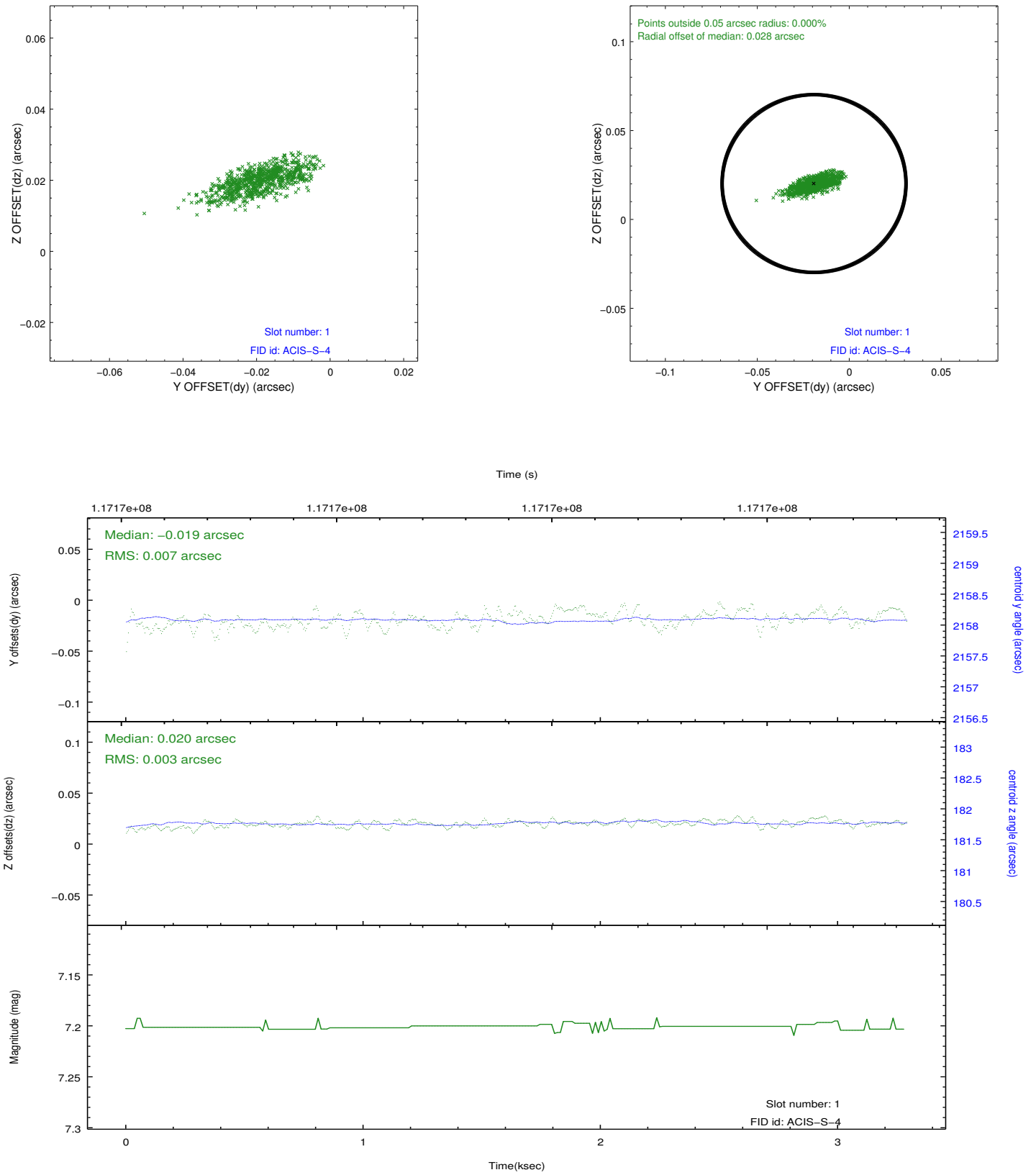


## 2.5 FID Slots

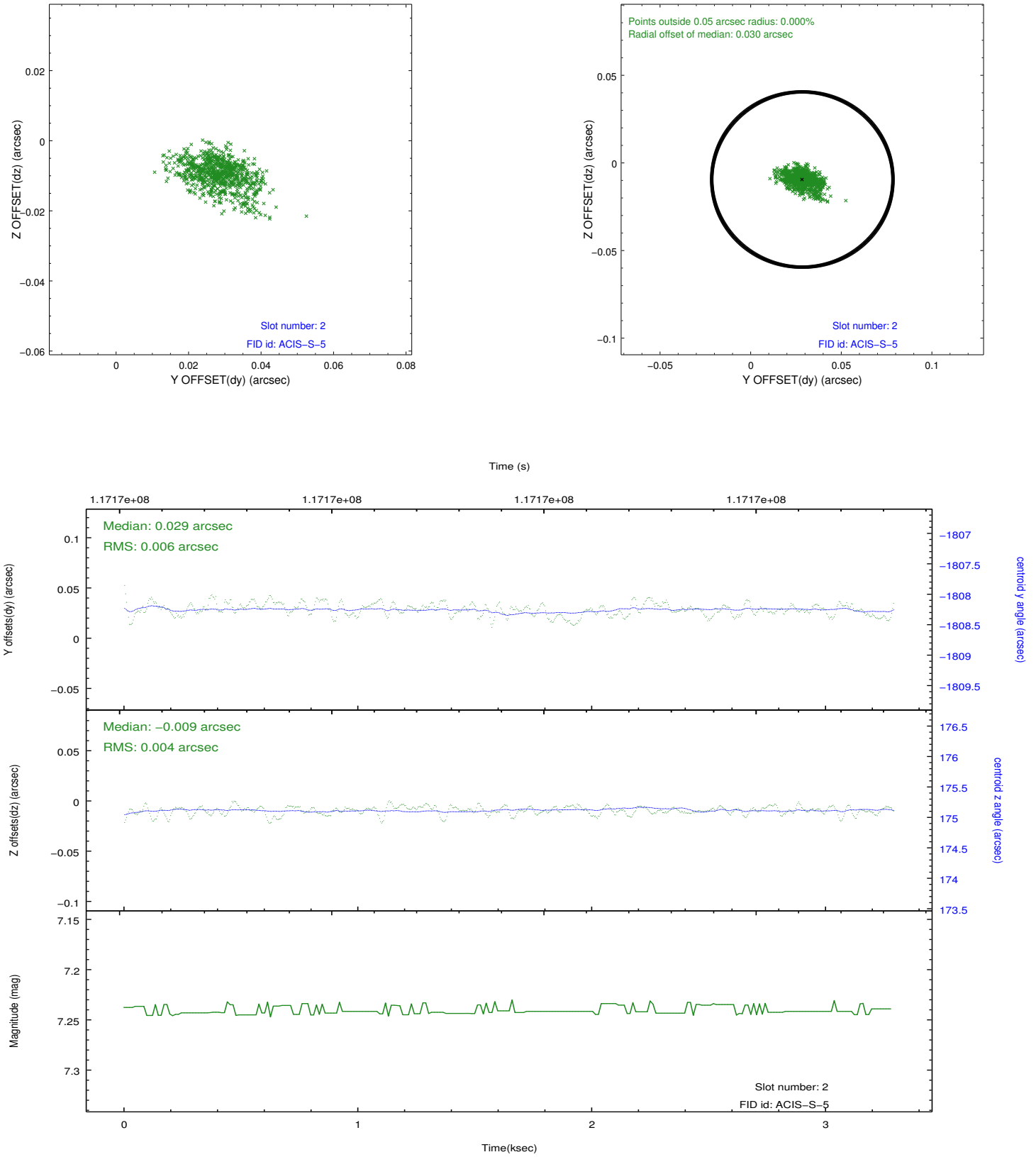
### 2.5.1 Slot 0



## 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)	2012.09.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.716

### A.2 Comments