

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7581 - L2 Version 2  
Chandra X-Ray Center

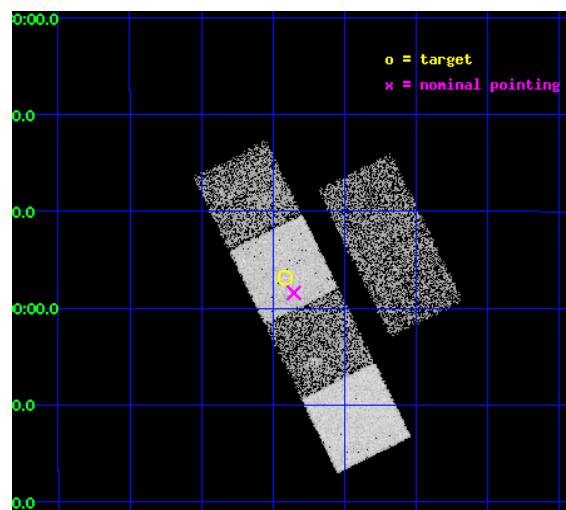
L2 Processing Date : Apr 28 2012

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# 1 Front

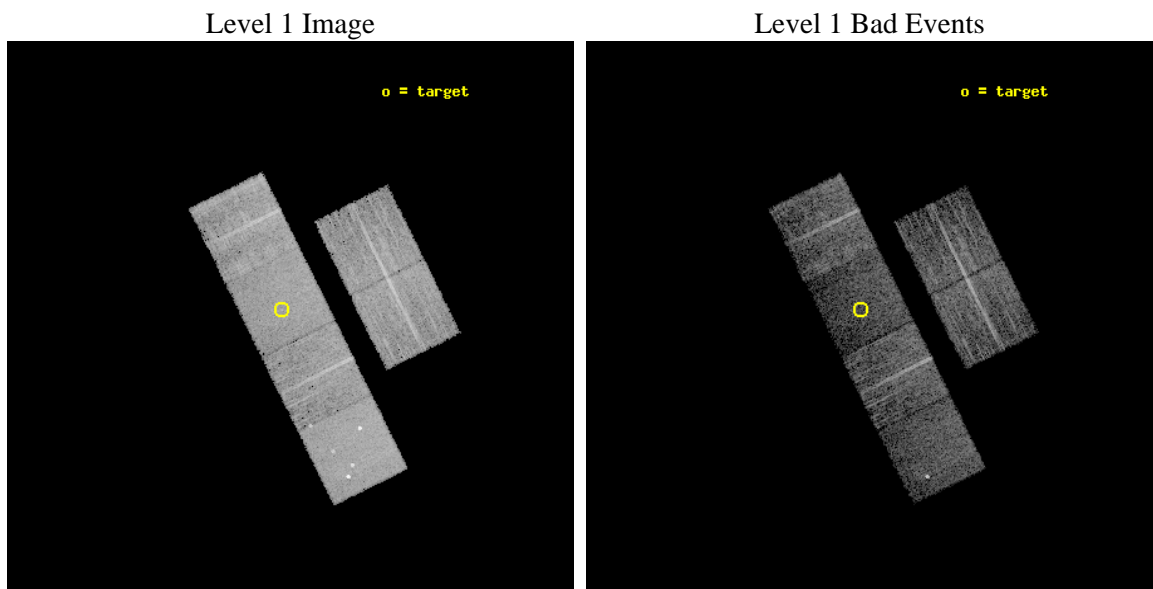
seq_num	500713	Sequence number
obs_id	7581	Observation id
title	Chandra monitoring of the candidate Anomalous X-ray Pulsar AX J1845-0258	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	AX J1845-0258	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	281.227833	Observer's specified target RA [deg]
dec_targ	-2.948083	Observer's specified target Dec [deg]
ra_nom	281.21331452791	Nominal RA [deg]
dec_nom	-2.9734428275517	Nominal Dec [deg]
roll_nom	243.63624458986	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5148.333828032	Sum of GTIs [s]
livetime	5083.142525147	Livetime [s]
ontime2	5148.3748680353	Sum of GTIs [s]
ontime3	5148.2107080221	Sum of GTIs [s]
ontime5	5148.2927880287	Sum of GTIs [s]
ontime6	5148.2517480254	Sum of GTIs [s]
ontime7	5148.333828032	Sum of GTIs [s]
ontime8	5148.1696680188	Sum of GTIs [s]
l2events	61818	Number of level 2 events



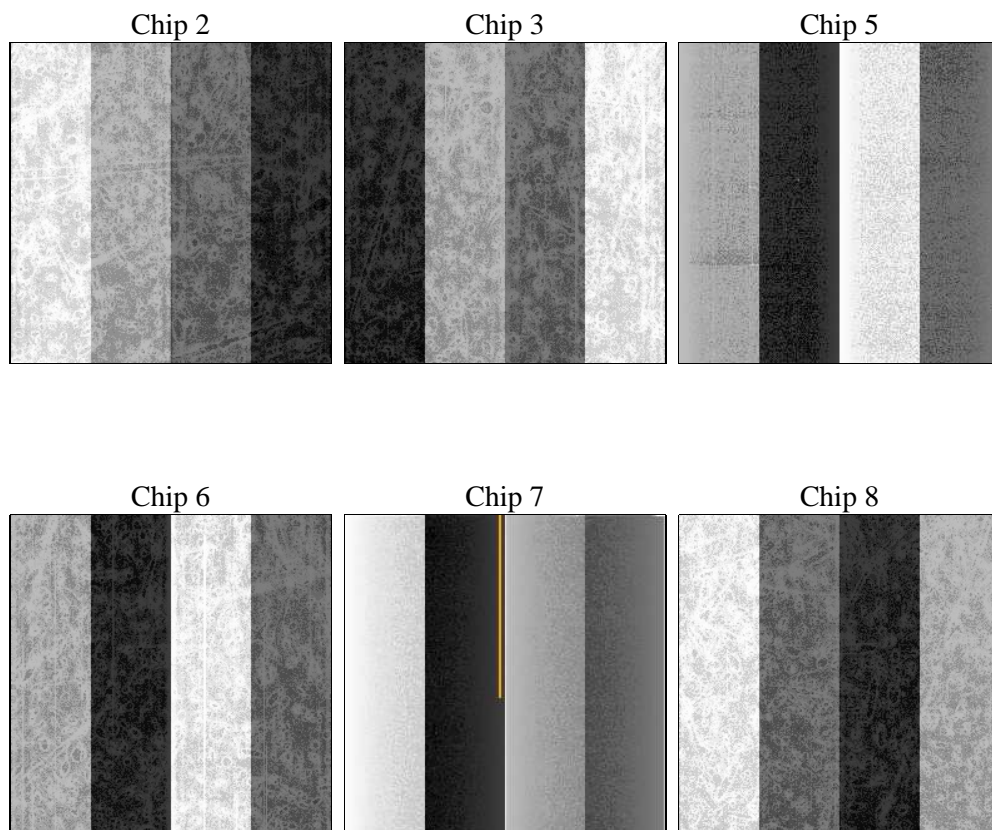
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5148.333828032	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	5148.3748680353	Sum of GTIs [s]
date	2012-04-29T02:11:03	Date and time of file creation	ontime3	5148.2107080221	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5148.2927880287	Sum of GTIs [s]
			ontime6	5148.2517480254	Sum of GTIs [s]
			ontime7	5148.333828032	Sum of GTIs [s]
			ontime8	5148.1696680188	Sum of GTIs [s]
			l1events	278568	Number of level 1 events

### 2.1.4 Events

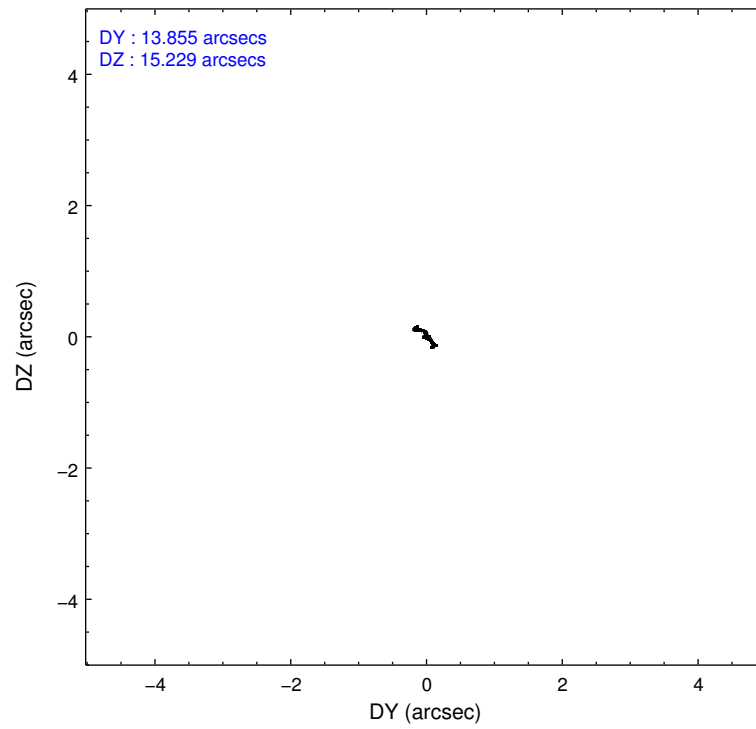
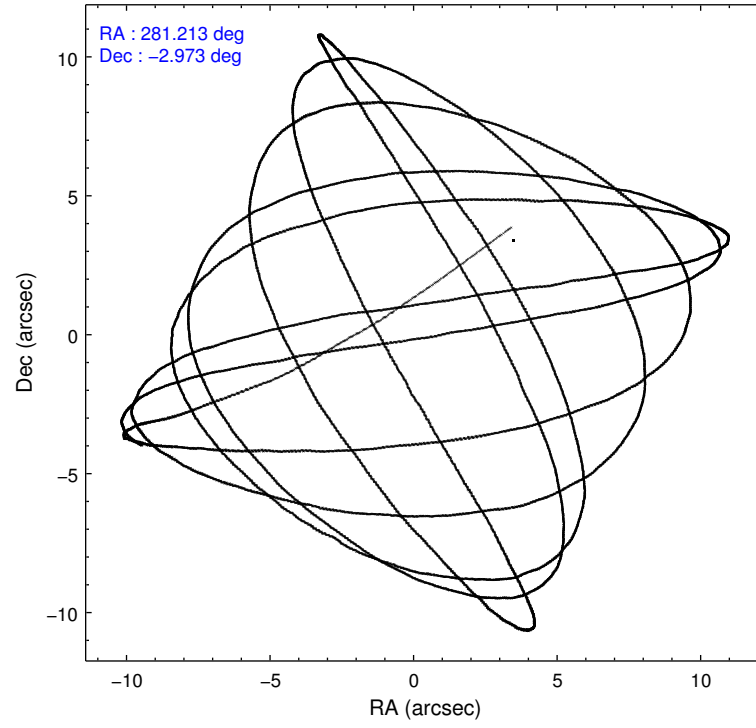
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	43755	39745	58462	41829	44474	50303	grade 0 events	1581	1484	4680	1863	2091	3631
rejected events	39577	35846	28116	37150	23639	38105		3%	3%	8%	4%	4%	7%
rejected %	90%	90%	48%	88%	53%	75%	grade 1 events	18	24	243	23	58	40
								0%	0%	0%	0%	0%	0%
							grade 2 events	967	854	8854	984	4231	2783
								2%	2%	15%	2%	9%	5%
							grade 3 events	447	391	1368	506	1971	1351
								1%	0%	2%	1%	4%	2%
							grade 4 events	444	419	1203	453	1935	1137
								1%	1%	2%	1%	4%	2%
							grade 5 events	1269	1537	4794	1579	4701	2252
								2%	3%	8%	3%	10%	4%
							grade 6 events	740	754	14275	880	10642	3327
								1%	1%	24%	2%	23%	6%
							grade 7 events	38289	34282	23045	35541	18845	35782
								87%	86%	39%	84%	42%	71%

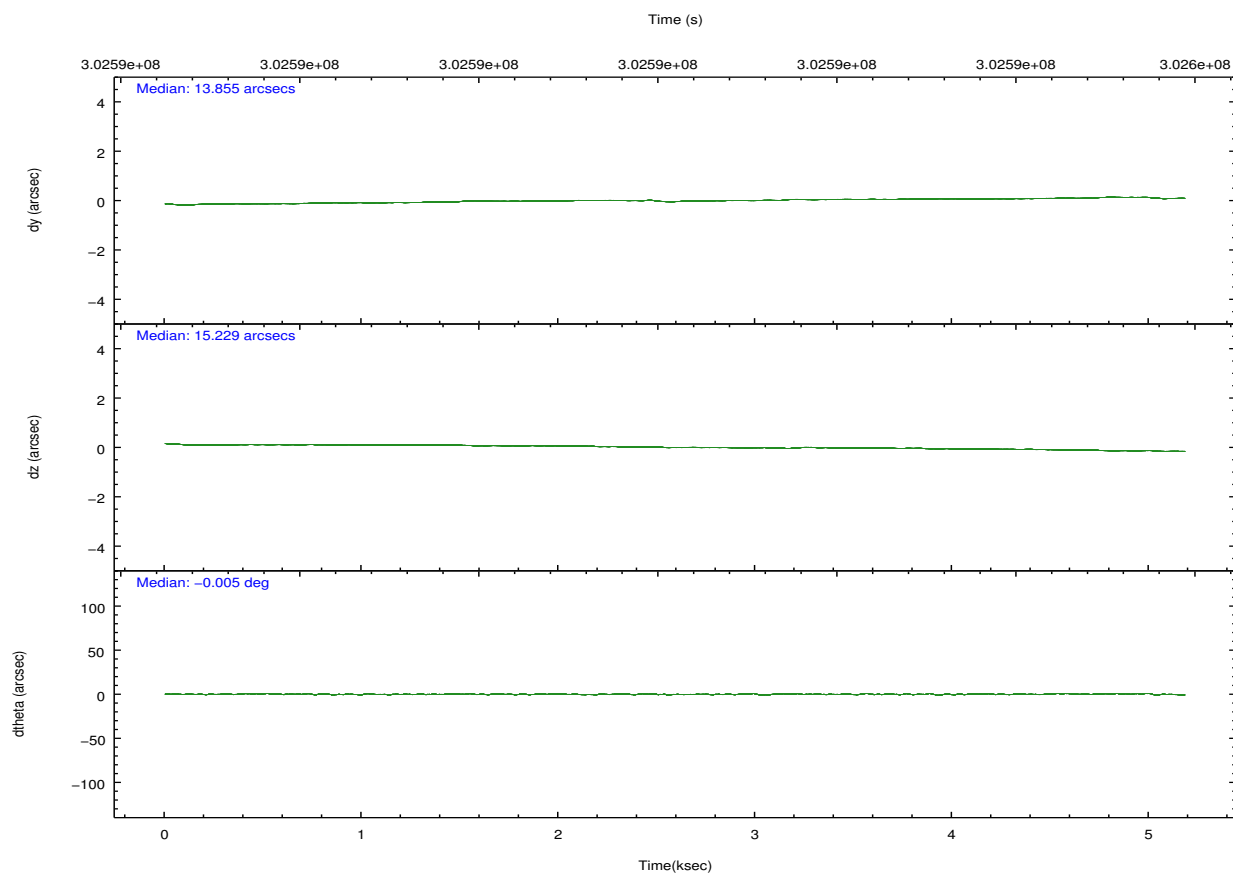
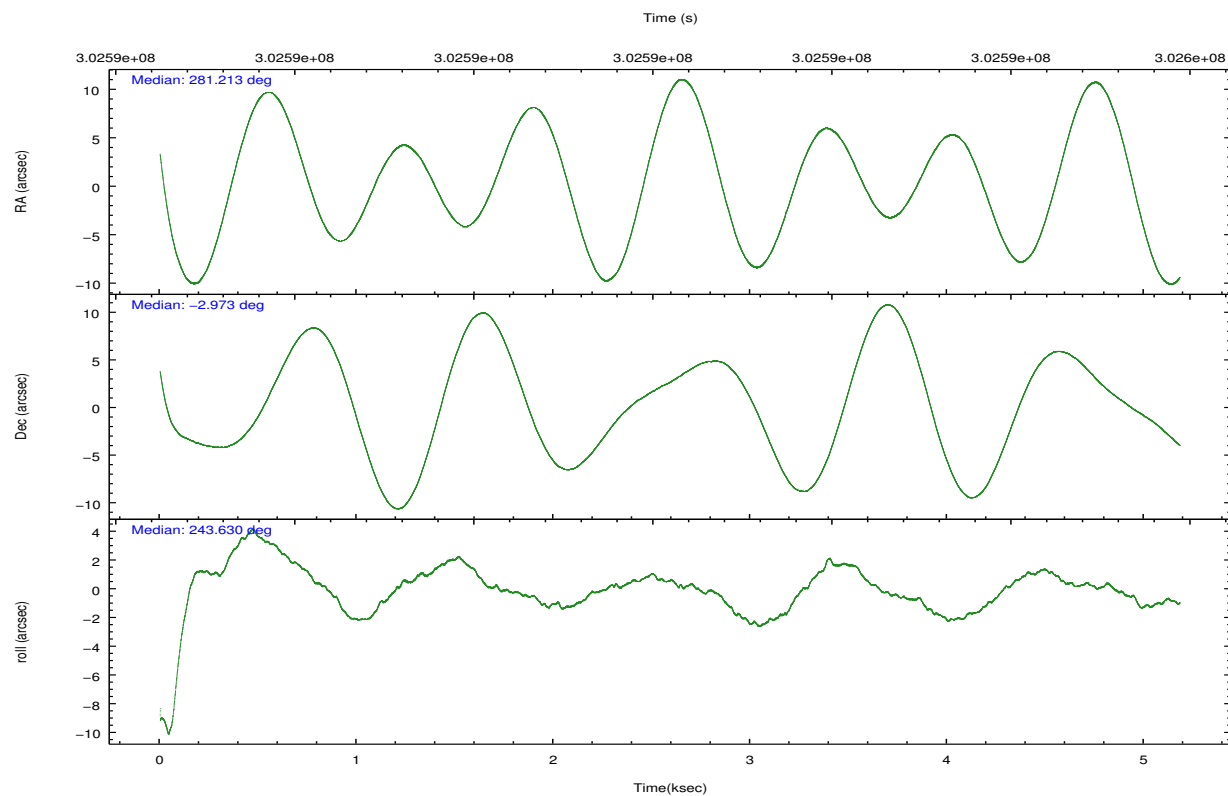


## 2.2 Compared Parameters

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	281.211259	281.2133145279138	CCD I2 on	O1	Y
[deg] Pointing Dec	-2.946153	-2.973442827551741	CCD I3 on	Y	Y
[deg] Pointing Roll	243.479512	243.6362445898602	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	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	Y	Y
[s] Observation start time (MET)	302589692.184000	302588634.65386	CCD S5 on	N	N
Observation start date	2007-08-04T04:40:27	2007-08-04T04:23:54	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	302594692.184000	302595086.00417	On-chip summing requested	N	N
Observation end date	2007-08-04T06:03:47	2007-08-04T06:11:26	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



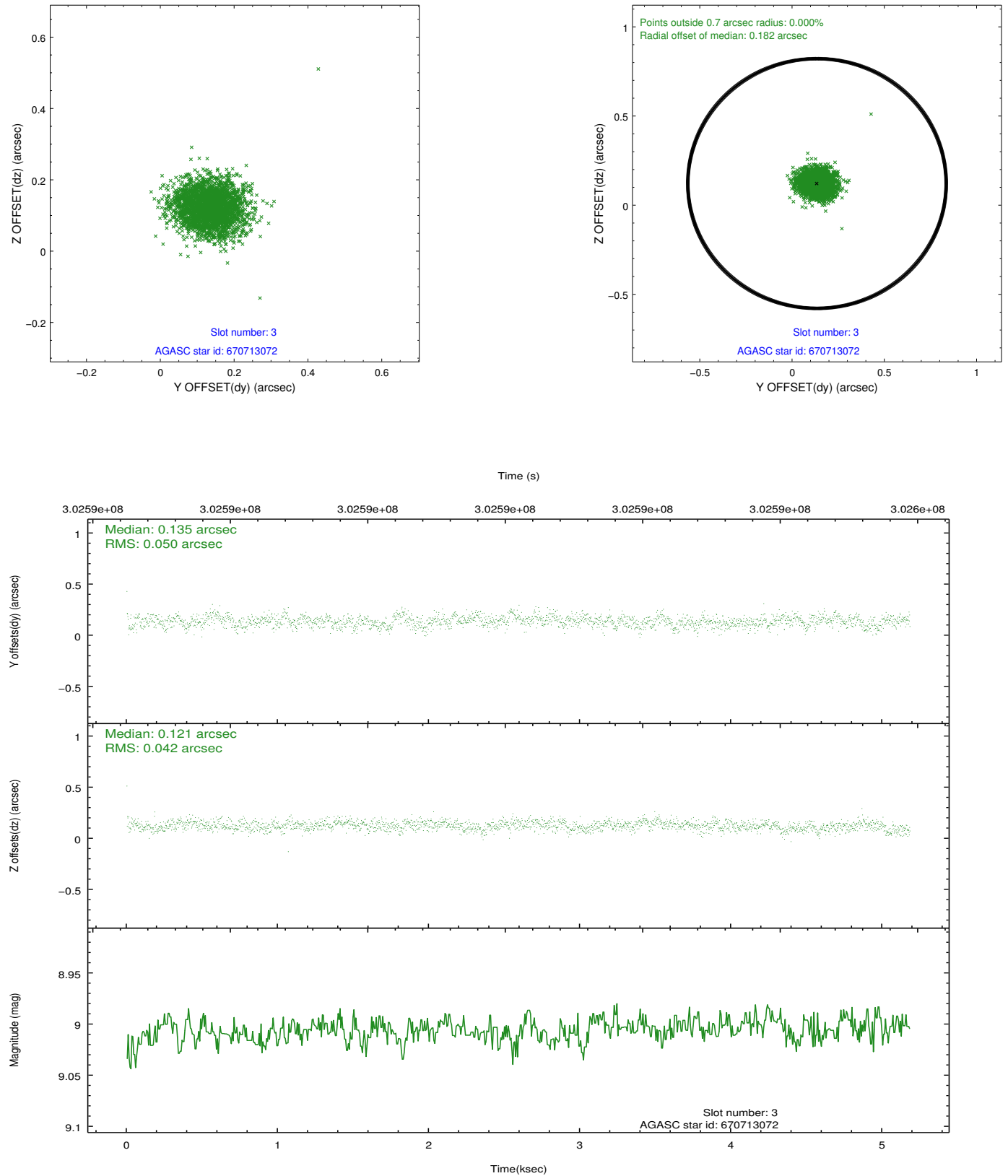


### Slot Statistics

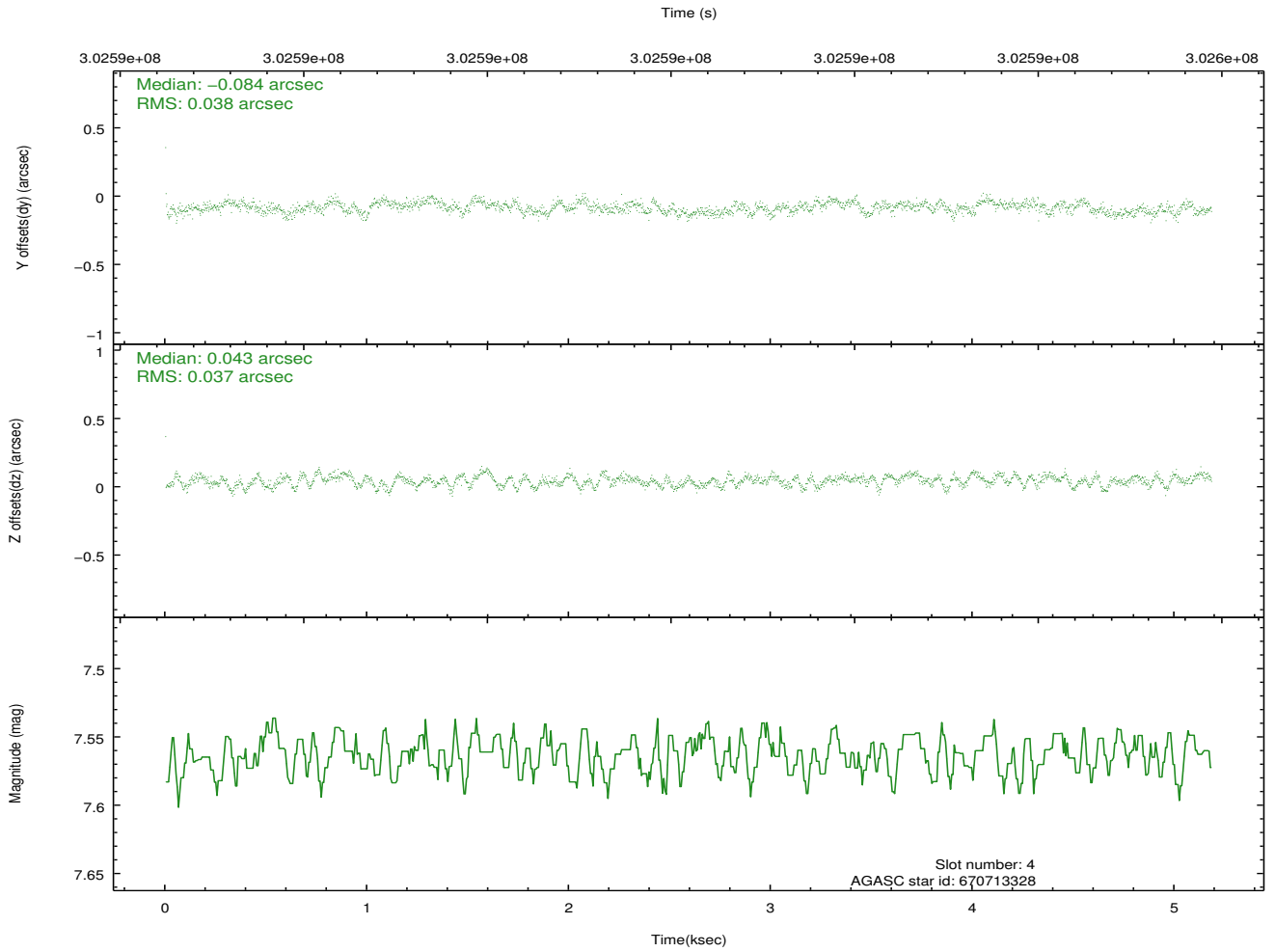
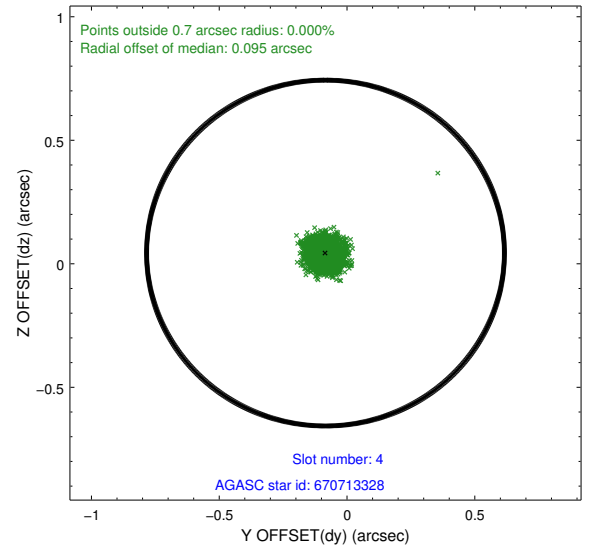
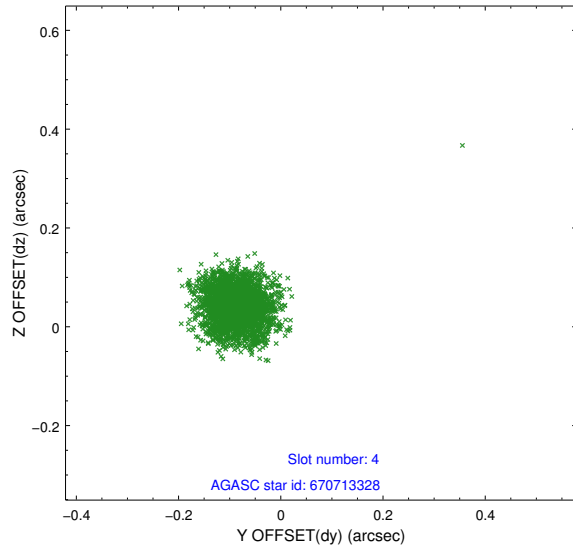
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1263	-0.072	-0.034	0.009	0.016	0.000000	0.000000	-766.84	-1736.67
1	FID	ACIS-S-4	7.19	1262	0.216	0.044	0.009	0.020	0.000000	0.000000	2146.17	170.71
2	FID	ACIS-S-5	7.22	1264	-0.175	-0.001	0.009	0.019	0.000000	0.000000	-1818.31	165.62
3	GUIDE	670713072	9.01	2529	0.135	0.121	0.069	0.112	281.205407	-3.604132	2129.18	1039.46
4	GUIDE	670713328	7.56	2528	-0.084	0.043	0.055	0.086	280.824681	-3.187771	1399.95	-854.18
5	GUIDE	670714008	9.01	2528	0.046	-0.138	0.079	0.127	281.129237	-3.153193	799.45	68.81
6	GUIDE	670830264	8.73	2527	-0.083	-0.012	0.078	0.123	281.361536	-3.231556	678.61	942.38
7	GUIDE	670713528	6.49	2528	-0.013	-0.014	0.070	0.109	280.393663	-3.118473	1869.00	-2351.09

## 2.4 Star Slots

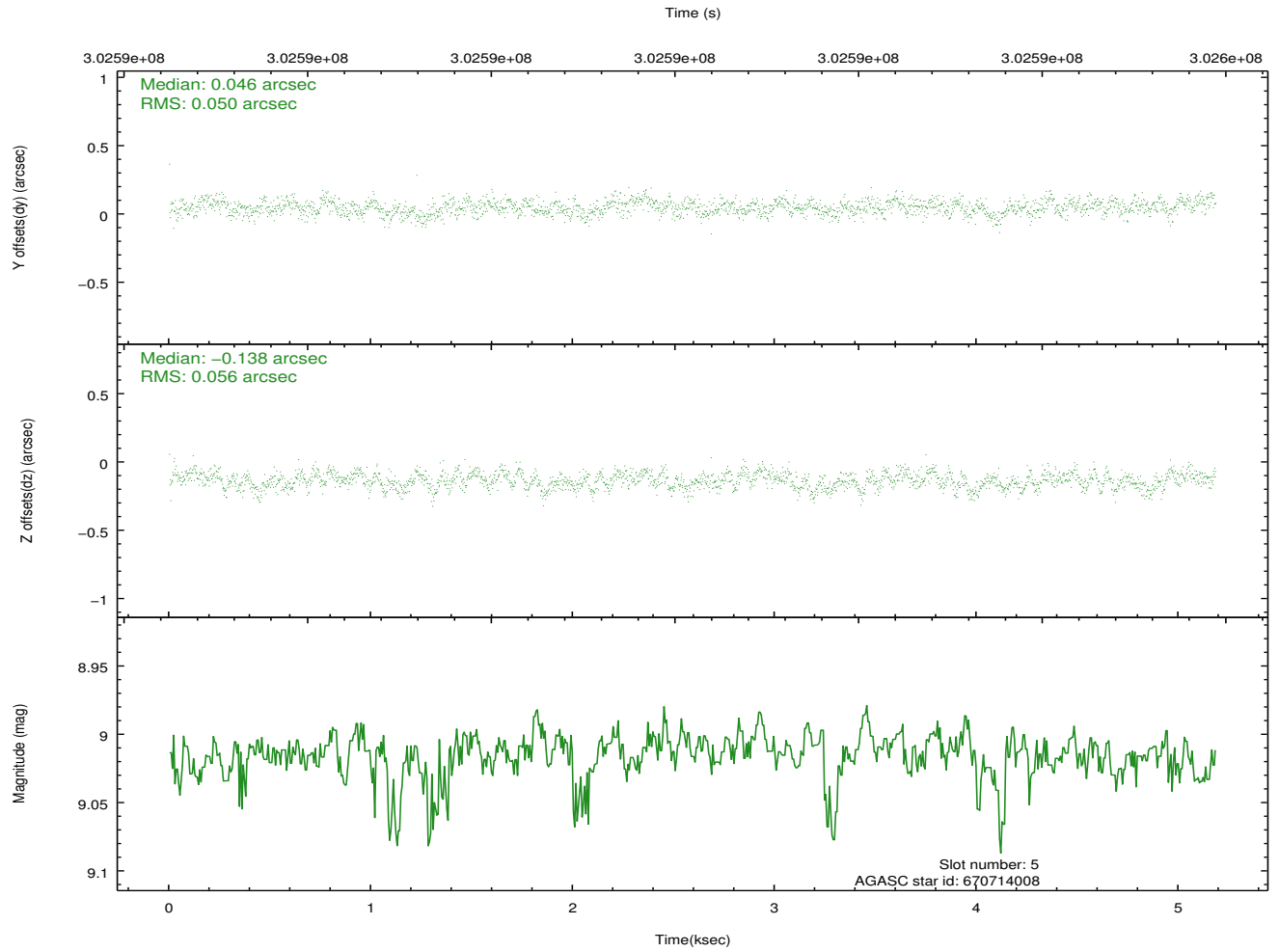
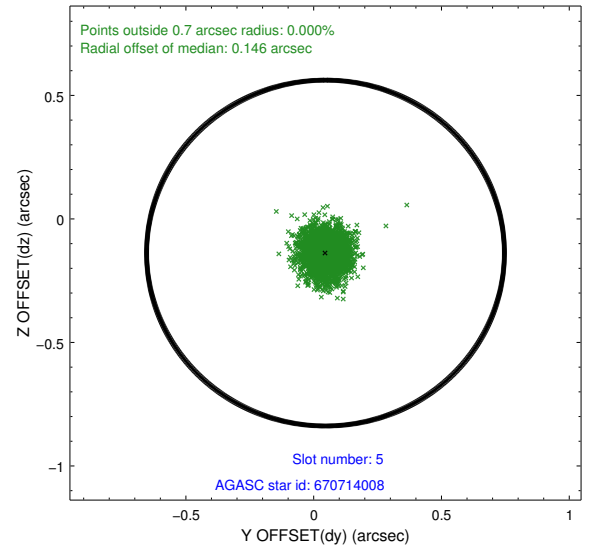
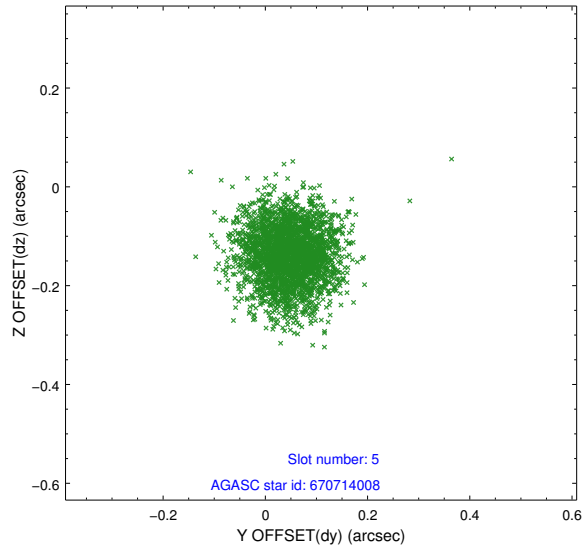
### 2.4.1 Slot 3



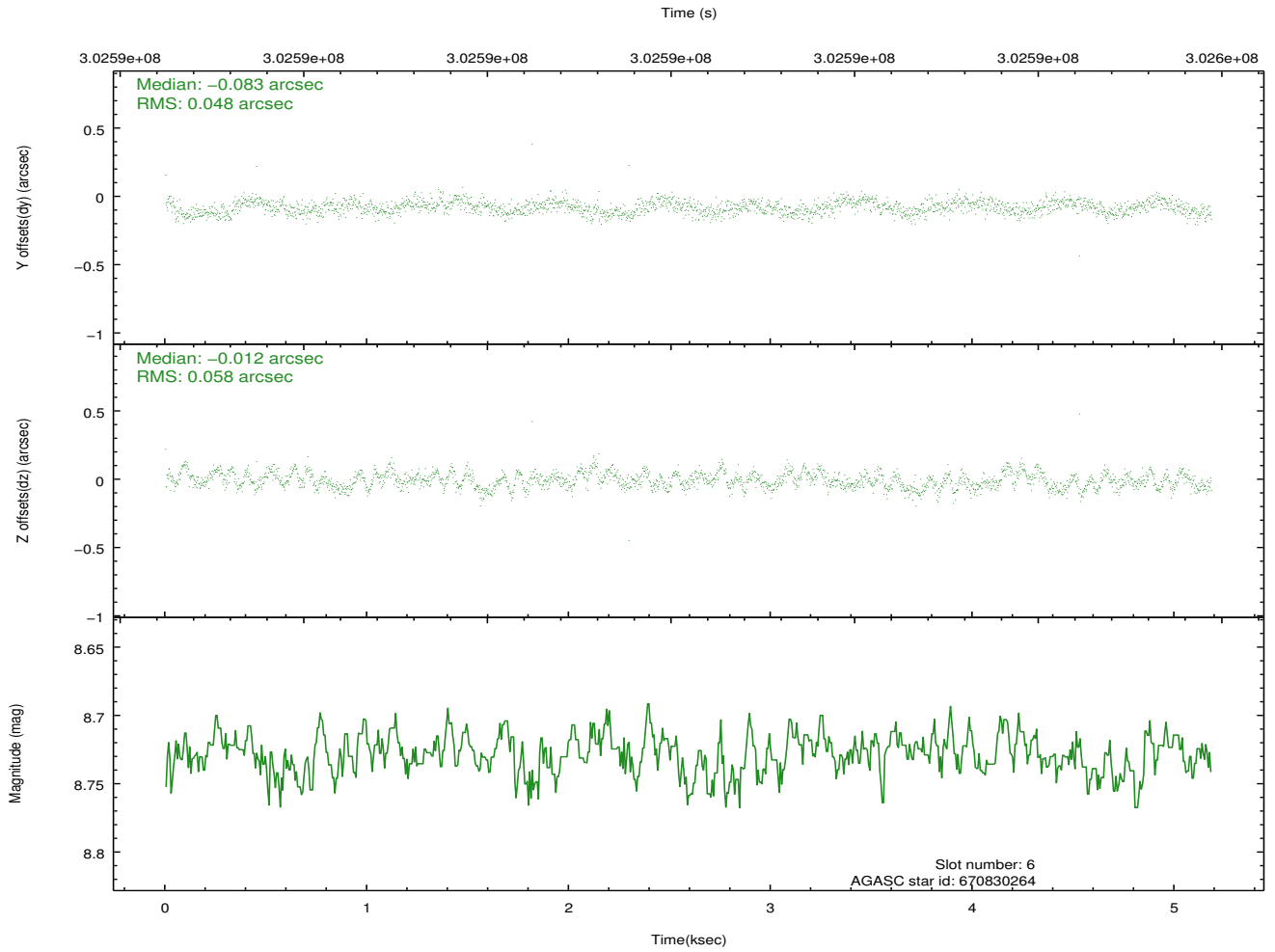
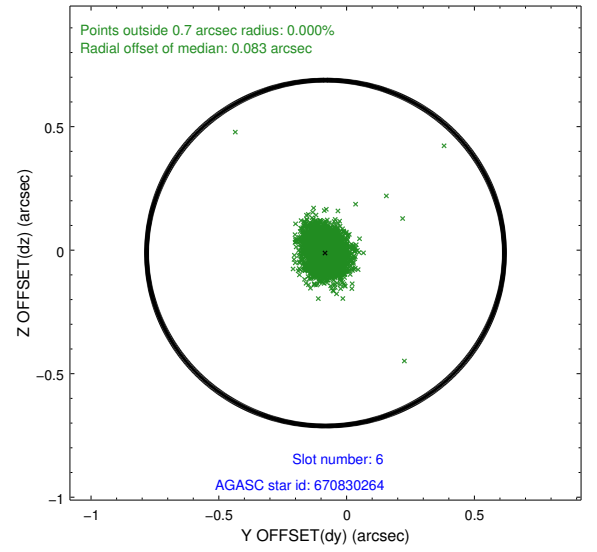
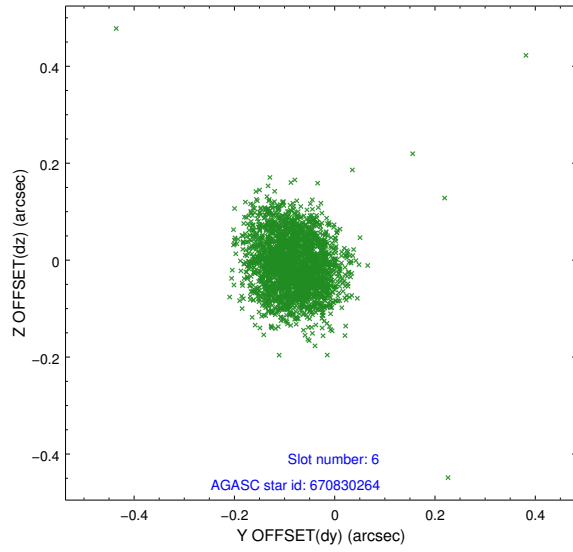
## 2.4.2 Slot 4



### 2.4.3 Slot 5

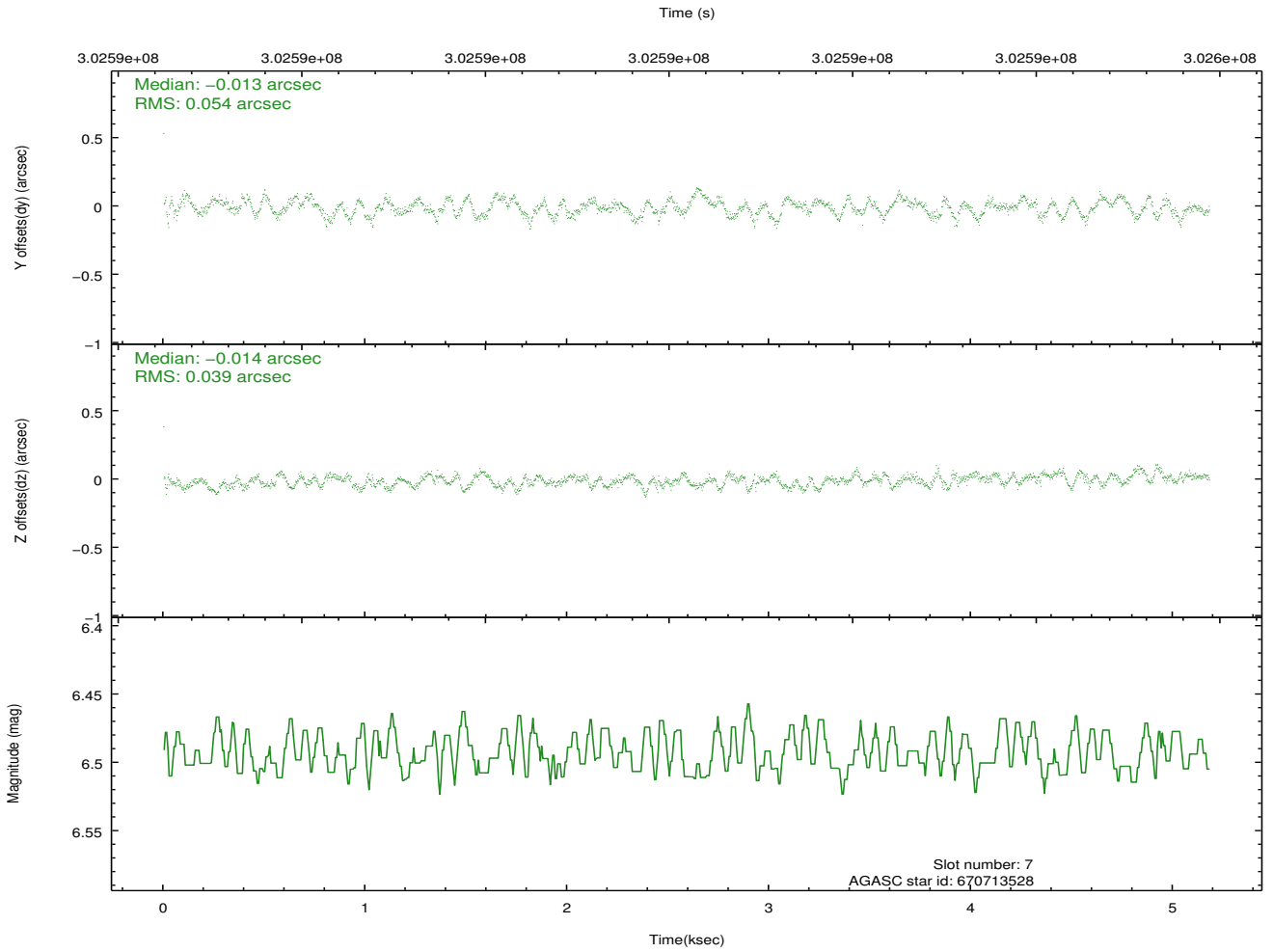
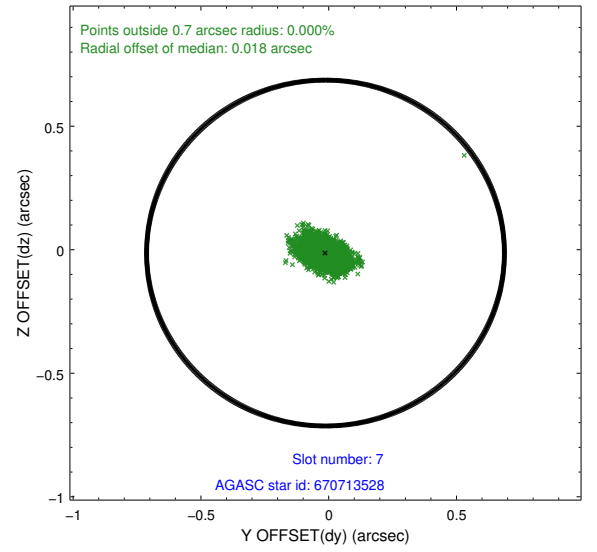
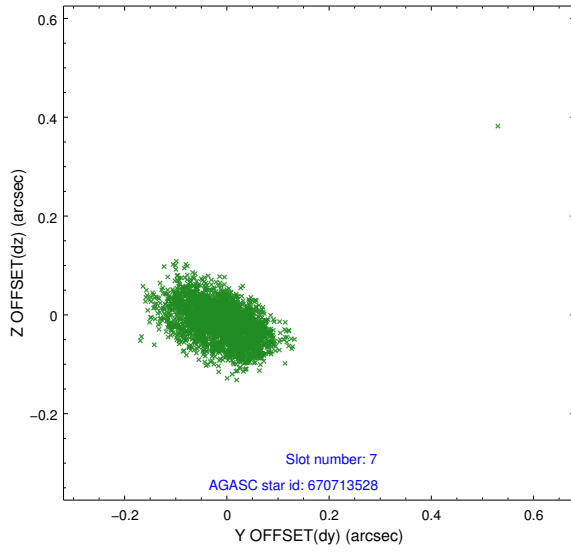


## 2.4.4 Slot 6



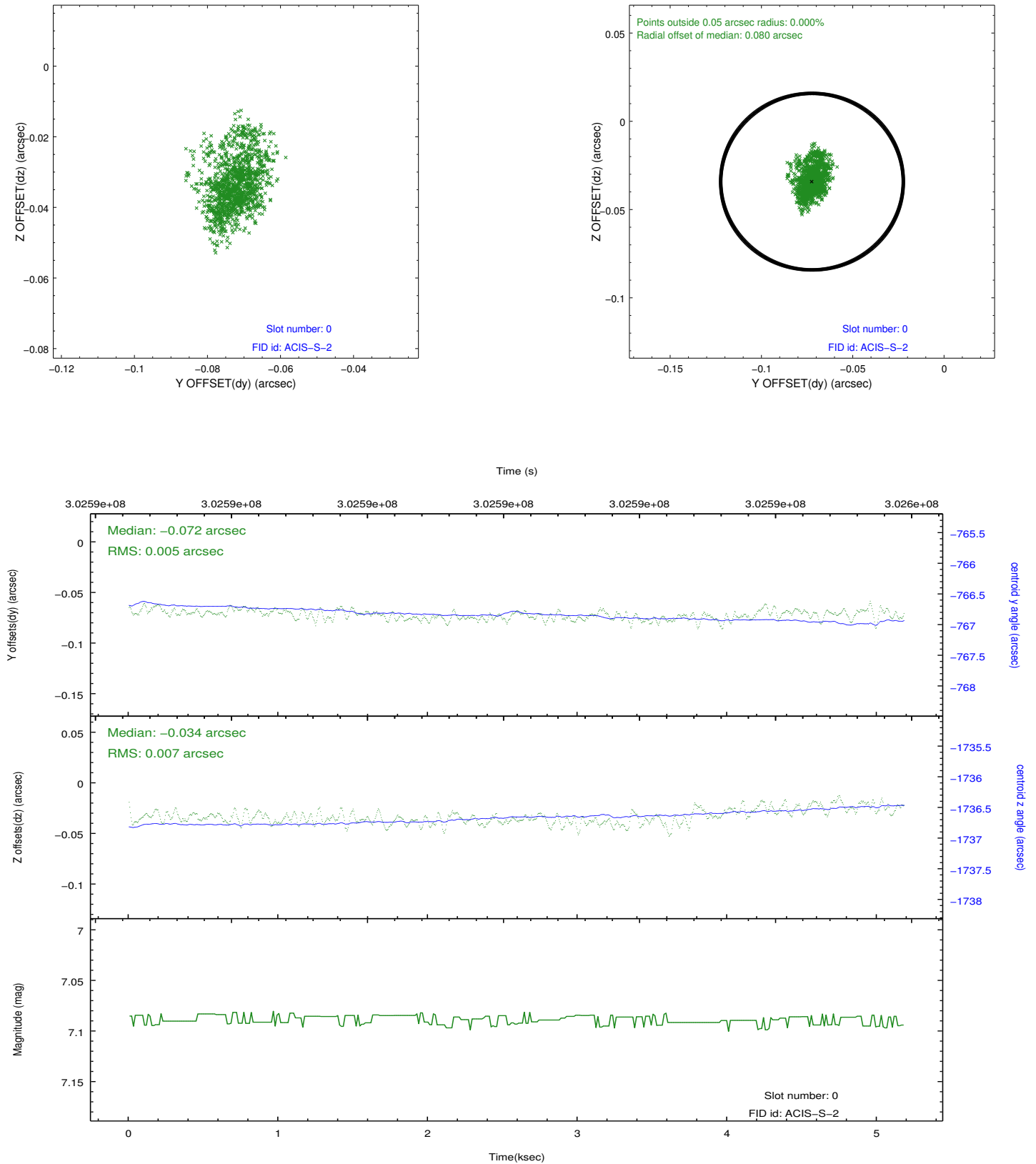


## 2.4.5 Slot 7

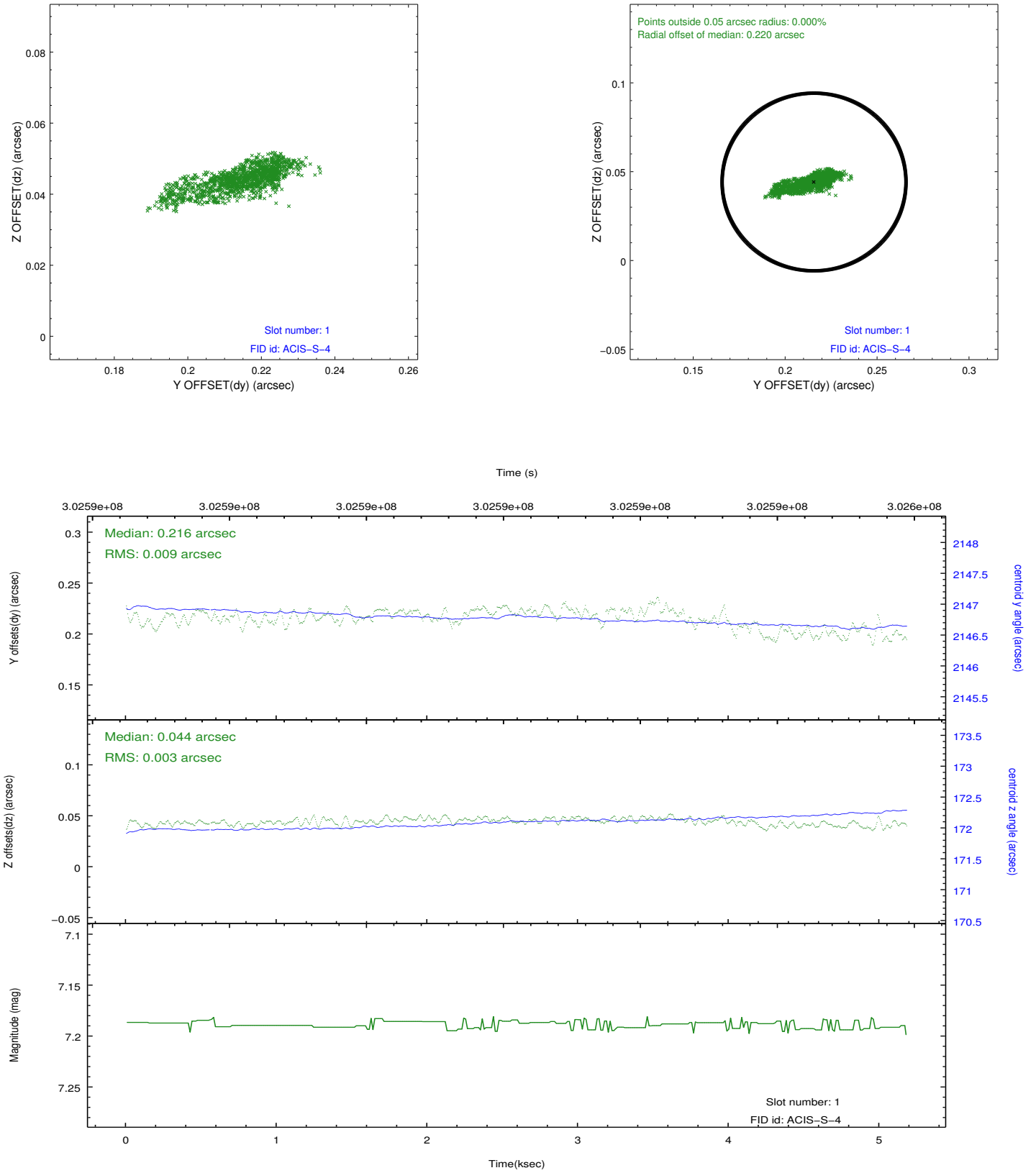


## 2.5 FID Slots

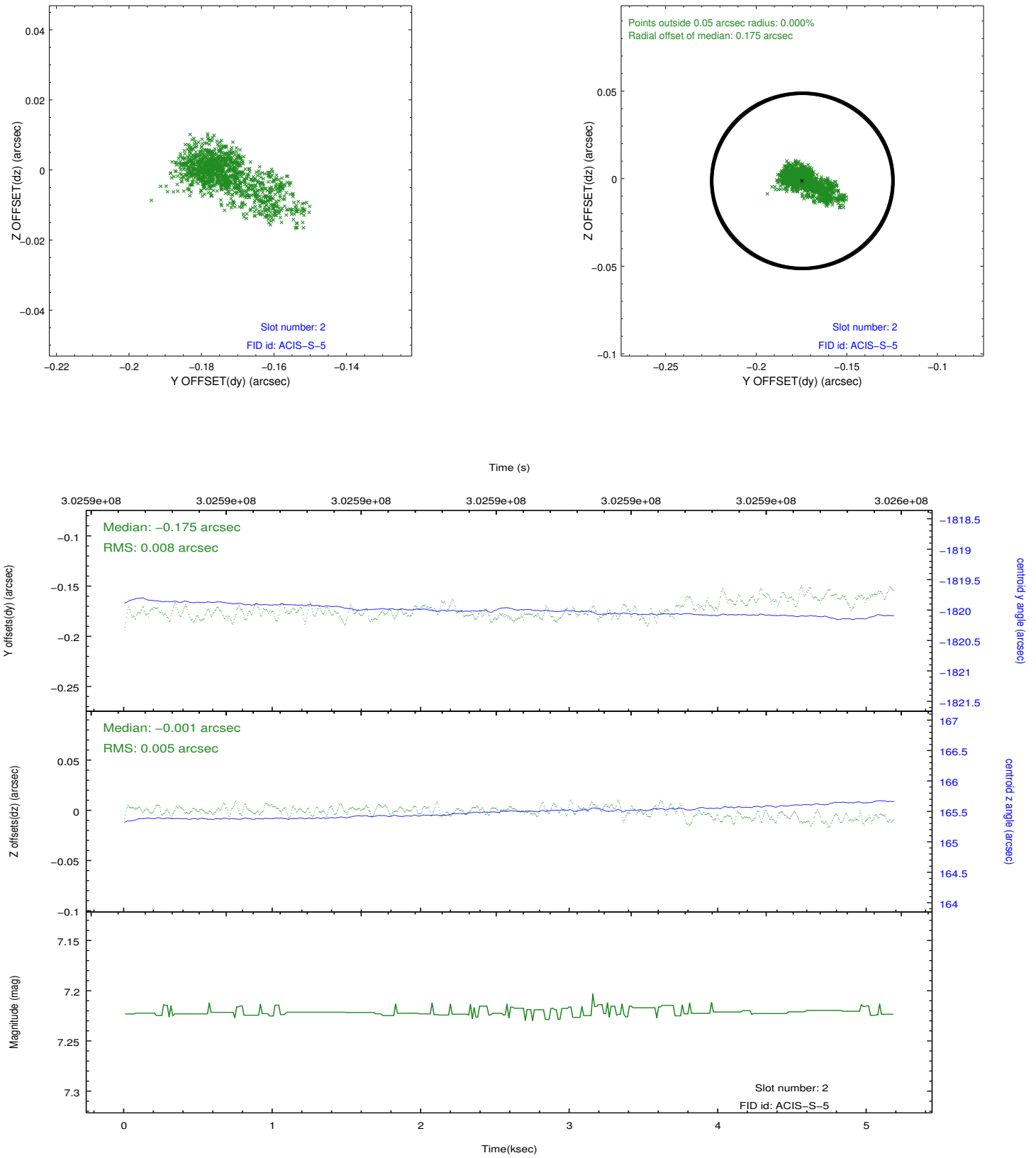
### 2.5.1 Slot 0



## 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)	2012.05.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.14879998

### A.2 Comments

Monitor constraint met, follows obs7580 by 57 days.