

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3558 - L2 Version 3  
Chandra X-Ray Center

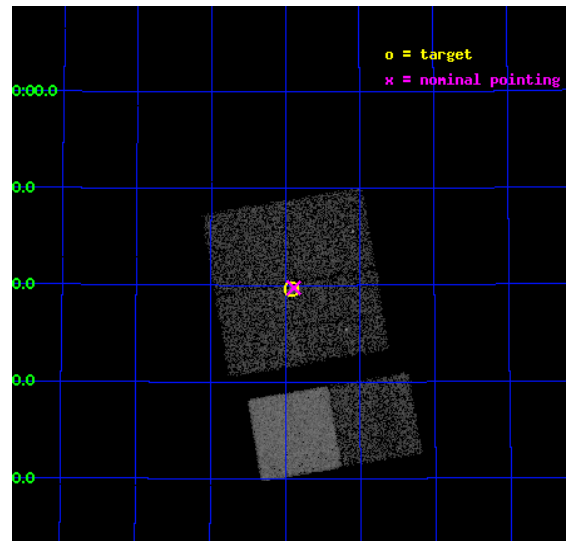
L2 Processing Date : Oct 24 2012

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# 1 Front

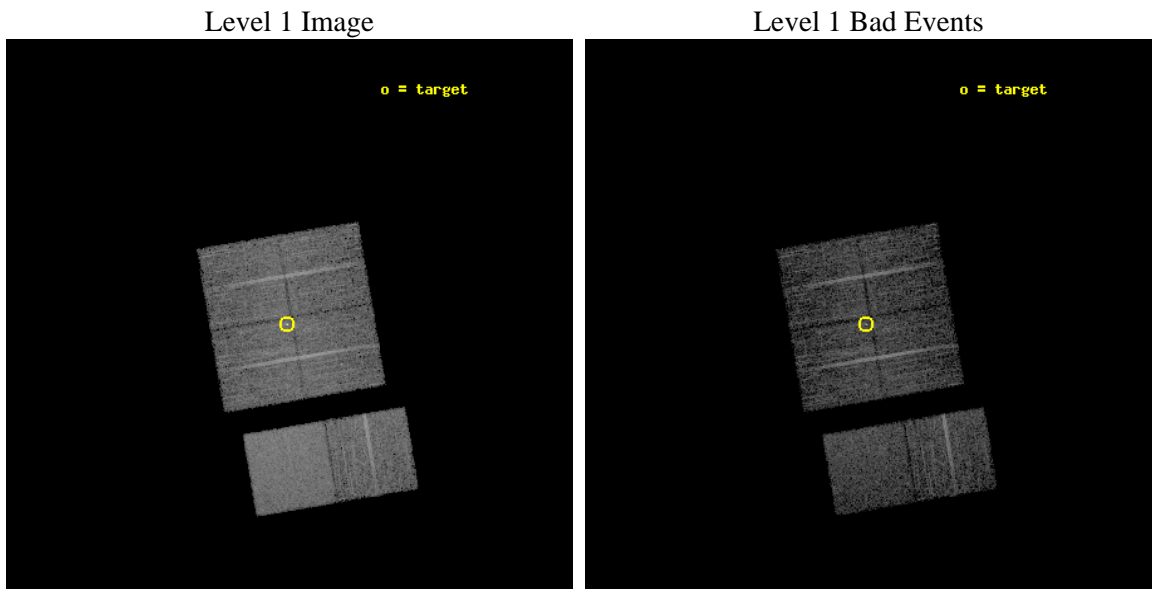
seq_num	700620	Sequence number
obs_id	3558	Observation id
title	PRECISE DETERMINATION OF THE BRIGHT END OF THE LOCAL GALAXY X-RAY LUMINOSITY FUNCTION	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	MRK 202	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	184.479167	Observer's specified target RA [deg]
dec_targ	58.66	Observer's specified target Dec [deg]
ra_nom	184.4715395888	Nominal RA [deg]
dec_nom	58.662447660354	Nominal Dec [deg]
roll_nom	170.34494745855	Nominal Roll [deg]
revision	3	Processing version of data
ontime	6319.9999764562	Sum of GTIs [s]
livetime	6239.9723313072	Livetime [s]
ontime0	6319.9999764562	Sum of GTIs [s]
ontime1	6319.9999764562	Sum of GTIs [s]
ontime2	6319.9999764562	Sum of GTIs [s]
ontime3	6319.9999764562	Sum of GTIs [s]
ontime6	6319.9999764562	Sum of GTIs [s]
ontime7	6319.9999764562	Sum of GTIs [s]
l2events	44756	Number of level 2 events



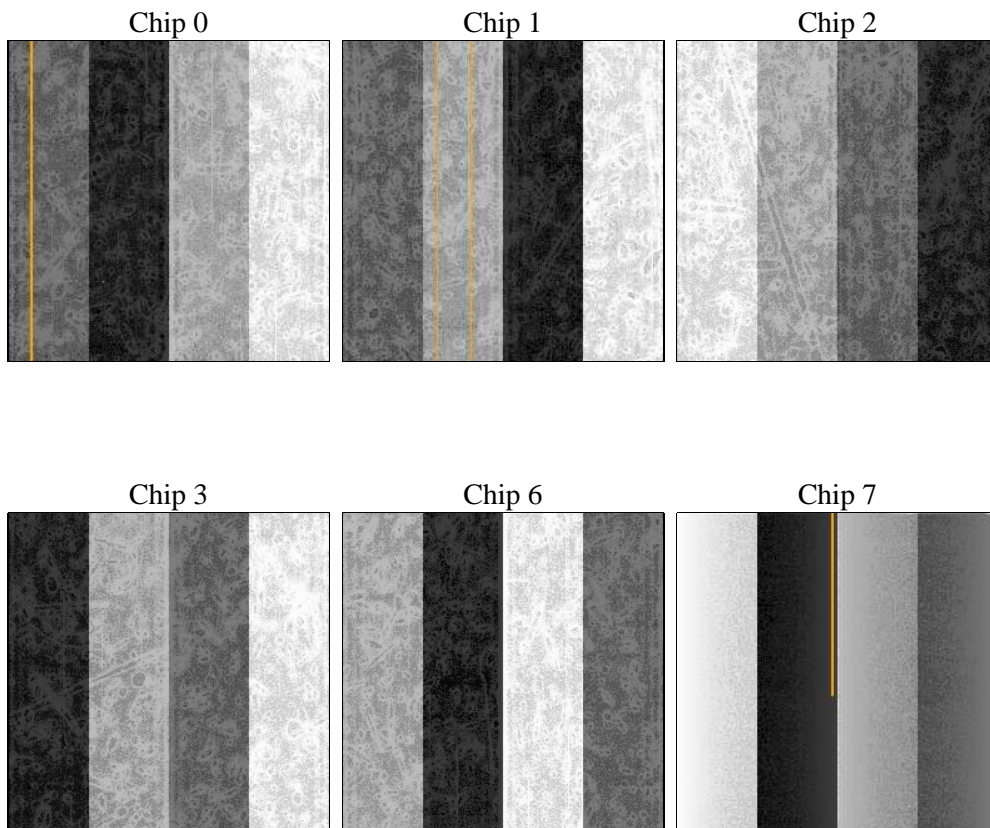
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6358.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6319.9999764562	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	6319.9999764562	Sum of GTIs [s]
date	2012-10-24T18:33:07	Date and time of file creation	ontime1	6319.9999764562	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	6319.9999764562	Sum of GTIs [s]
			ontime3	6319.9999764562	Sum of GTIs [s]
			ontime6	6319.9999764562	Sum of GTIs [s]
			ontime7	6319.9999764562	Sum of GTIs [s]
			l1events	250692	Number of level 1 events

### 2.1.4 Events

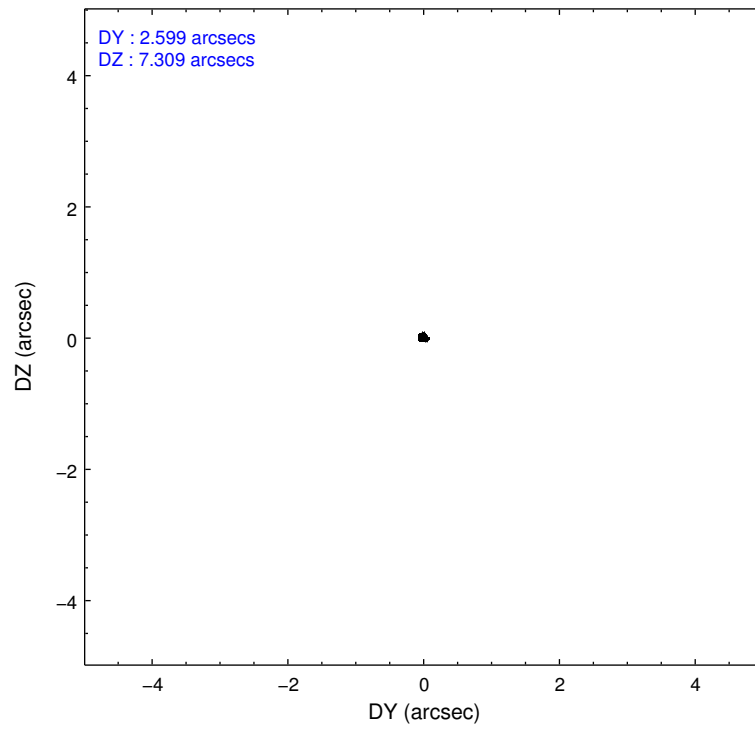
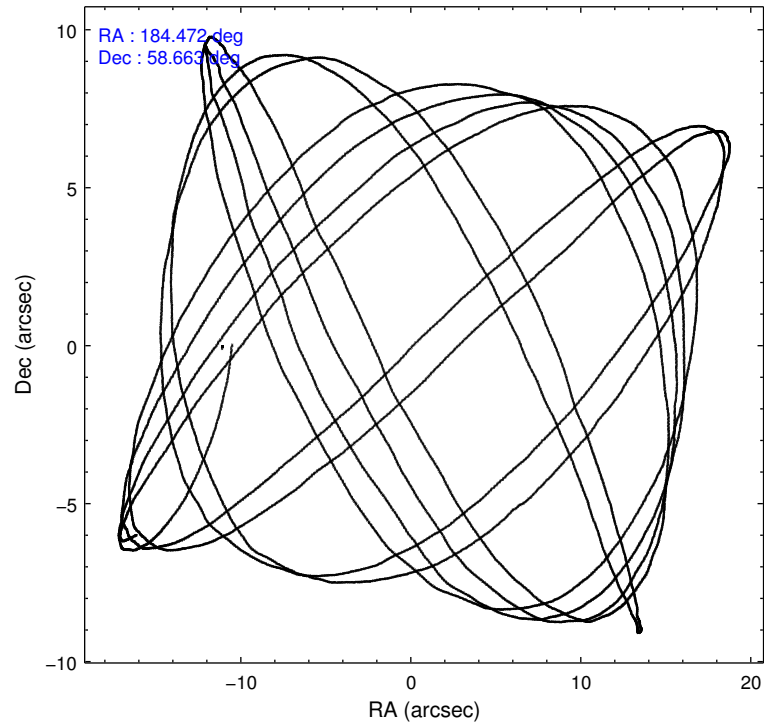
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	36309	37786	39312	42087	40327	54871	grade 0 events	2126	2008	2074	3120	1883	2189
rejected events	31407	32759	34675	35769	35584	31887		5%	5%	5%	7%	4%	3%
rejected %	86%	86%	88%	84%	88%	58%	grade 1 events	15	22	20	215	23	49
								0%	0%	0%	0%	0%	0%
							grade 2 events	994	1075	873	1156	979	4443
								2%	2%	2%	2%	2%	8%
							grade 3 events	482	511	451	581	457	2055
								1%	1%	1%	1%	1%	3%
							grade 4 events	454	526	450	581	467	2063
								1%	1%	1%	1%	1%	3%
							grade 5 events	1564	1597	1507	1853	1817	5216
								4%	4%	3%	4%	4%	9%
							grade 6 events	850	915	793	891	959	12256
								2%	2%	2%	2%	2%	22%
							grade 7 events	29824	31132	33144	33690	33742	26600
								82%	82%	84%	80%	83%	48%

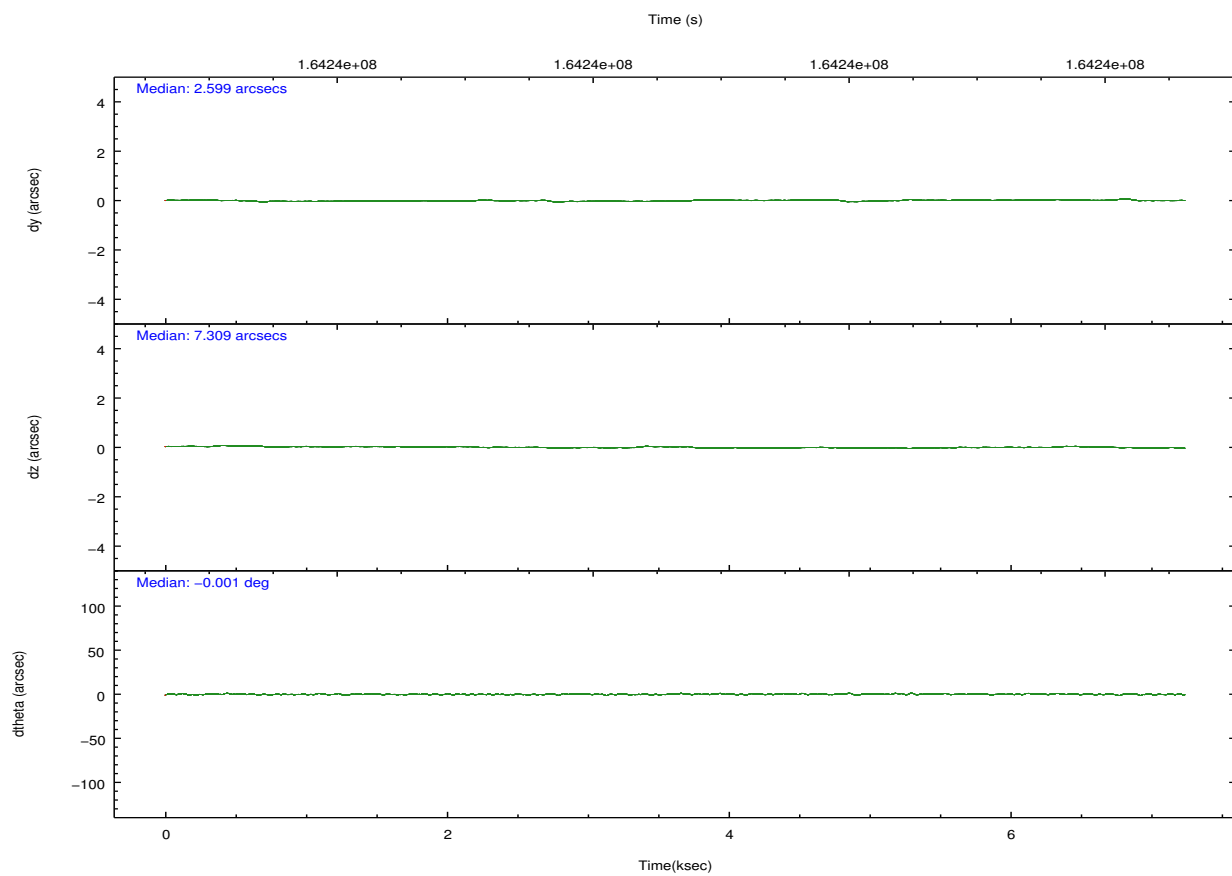
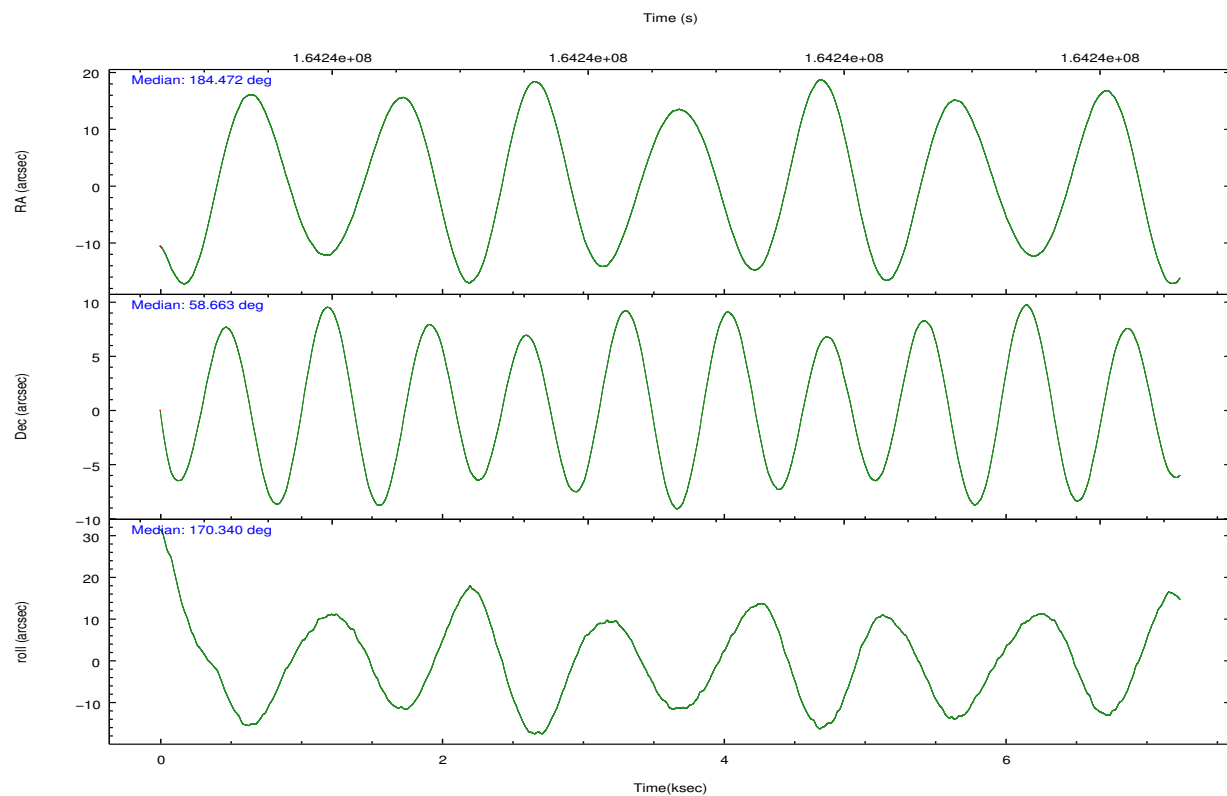


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	184.520977	184.4715395888809	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.672114	58.66244766035435	Alternating exposures requested	N	N
[deg] Pointing Roll	170.094018	170.344947458547	[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)	164235900.184000	164234593.72622			
Observation start date	2003-03-16T21:03:56	2003-03-16T20:43:13			
[s] Observation end time (MET)	164242258.184000	164242650.22656			
Observation end date	2003-03-16T22:49:54	2003-03-16T22:57:30			
Read mode	TIMED	TIMED			

## 2.3 Aspect



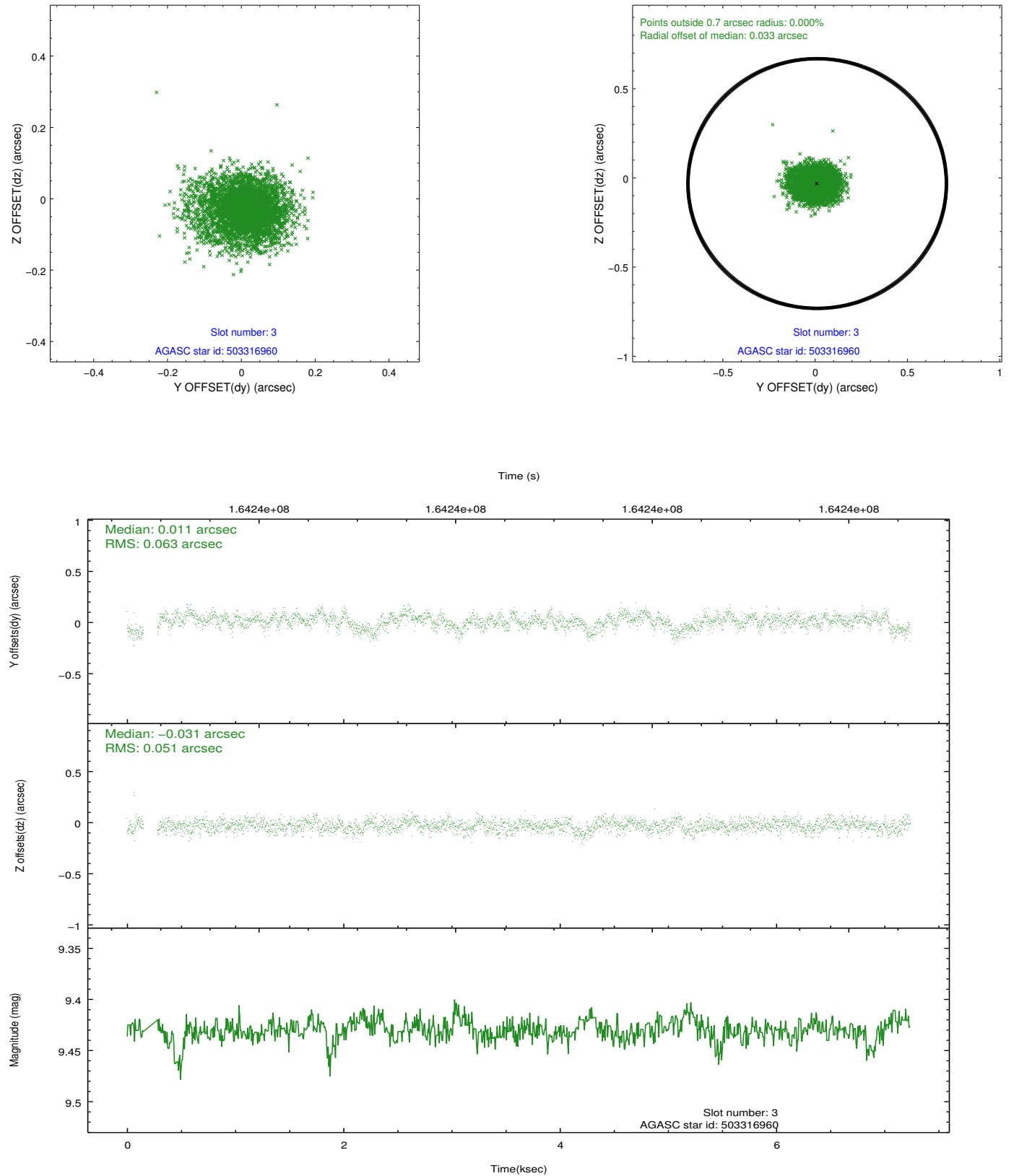


### Slot Statistics

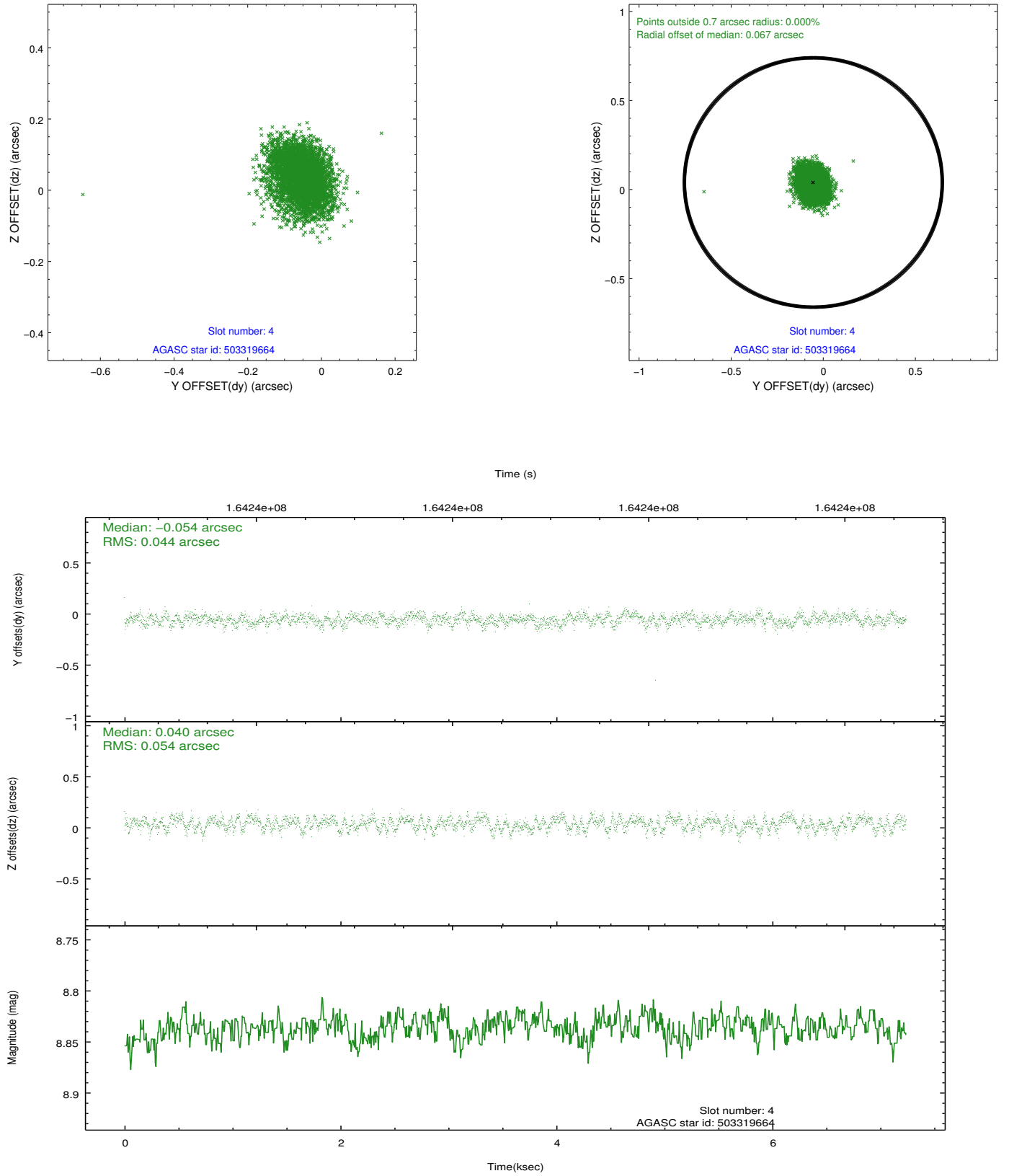
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1765	0.015	0.009	0.006	0.011	0.000000	0.000000	937.21	-830.72
1	FID	ACIS-I-5	7.24	1766	-0.085	0.057	0.006	0.010	0.000000	0.000000	-1810.52	1066.47
2	FID	ACIS-I-6	7.26	1766	-0.021	0.004	0.007	0.012	0.000000	0.000000	401.90	1711.78
3	GUIDE	503316960	9.43	3466	0.011	-0.031	0.086	0.143	185.586011	58.940862	-1779.23	-1308.79
4	GUIDE	503319664	8.84	3532	-0.054	0.040	0.075	0.121	184.221790	58.423854	401.26	976.01
5	GUIDE	503322128	9.09	3531	-0.001	0.021	0.083	0.134	184.366563	59.251936	639.65	-2007.07
6	GUIDE	503322336	9.70	3529	-0.019	-0.044	0.103	0.163	185.374272	59.122757	-1271.67	-1879.80
7	GUIDE	503324728	9.61	3528	0.068	0.010	0.112	0.187	185.552208	58.082934	-2296.34	1736.44

## 2.4 Star Slots

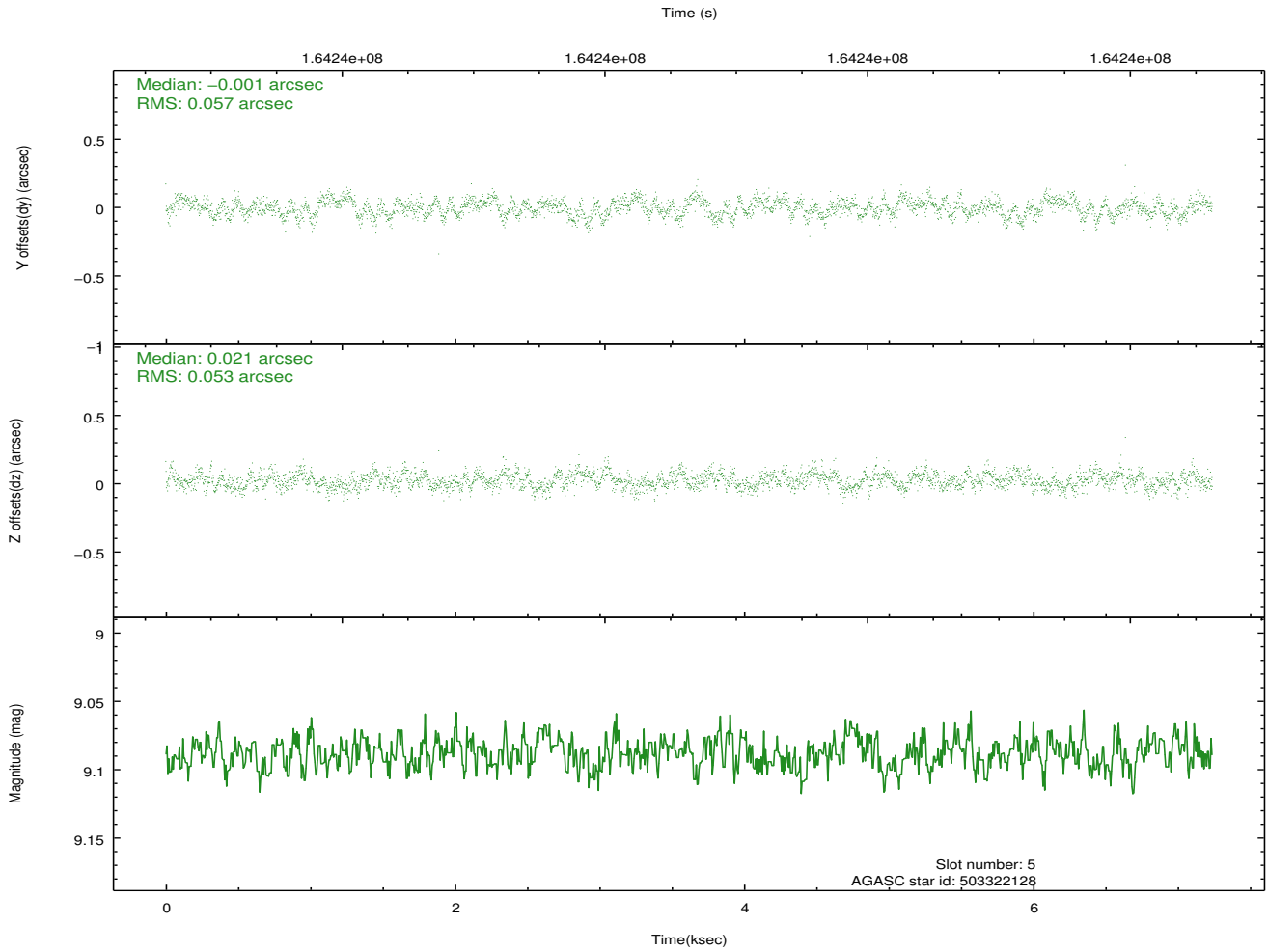
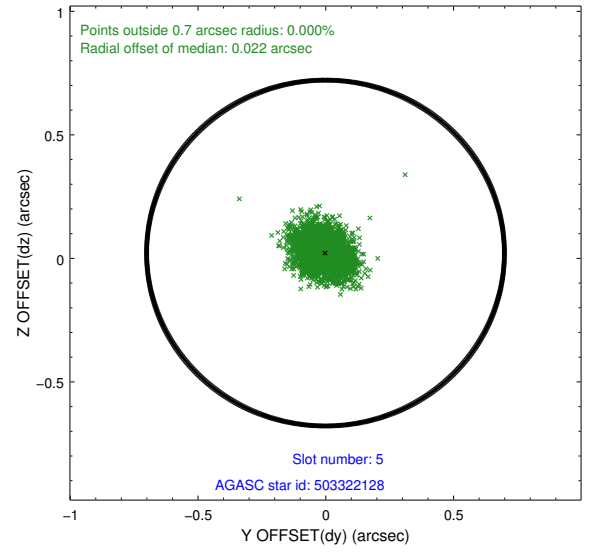
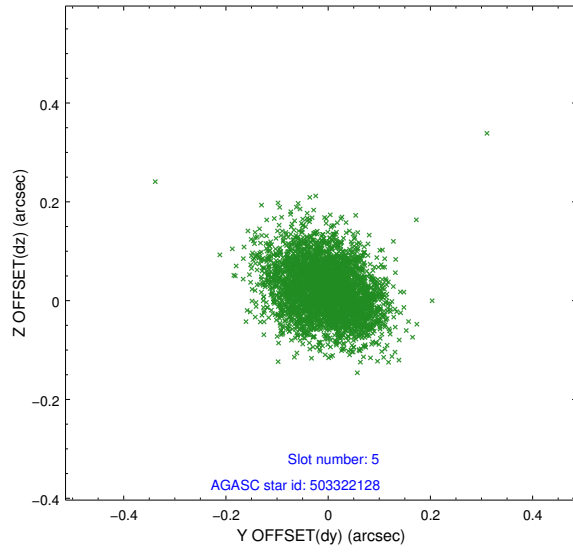
### 2.4.1 Slot 3



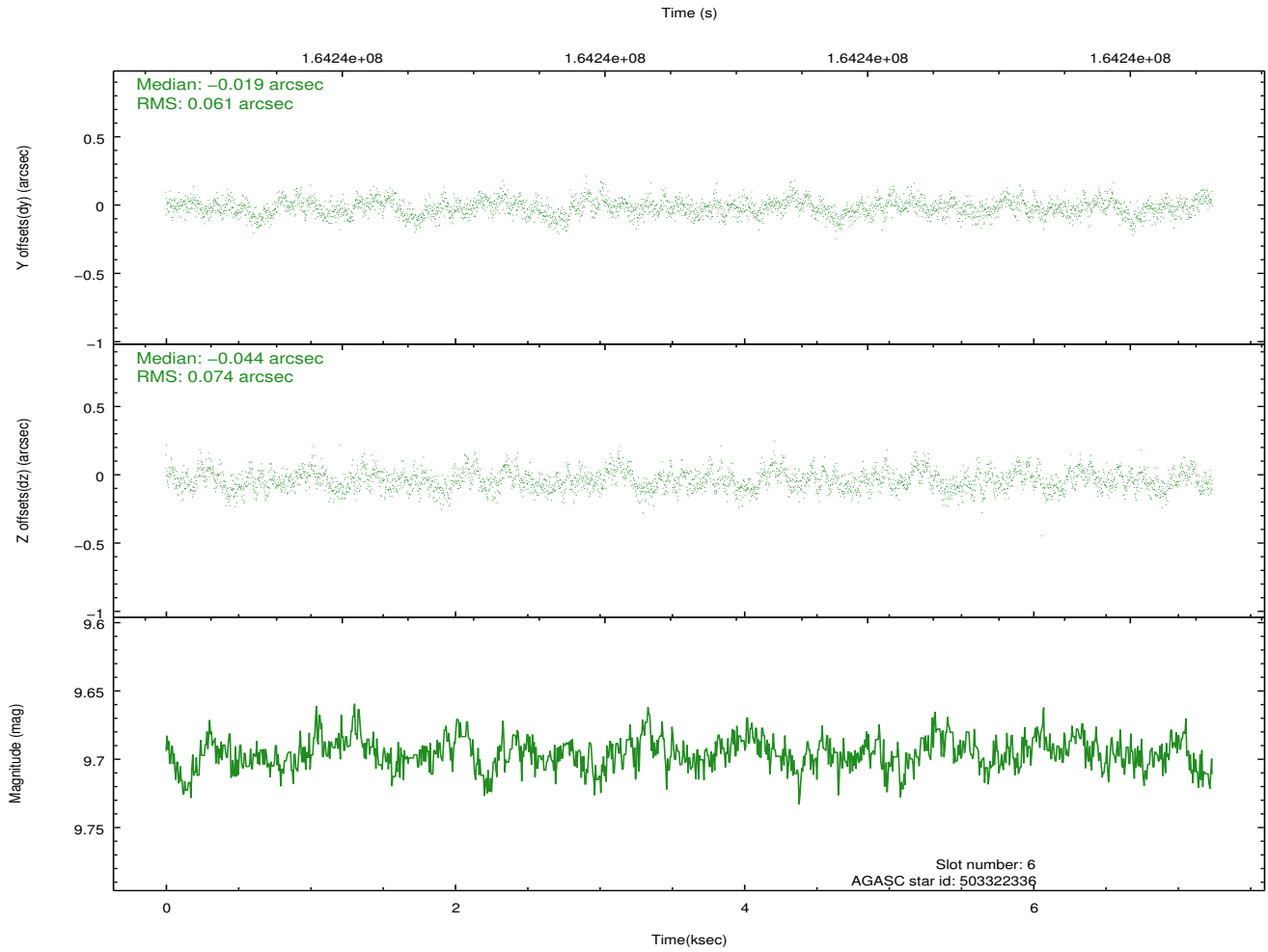
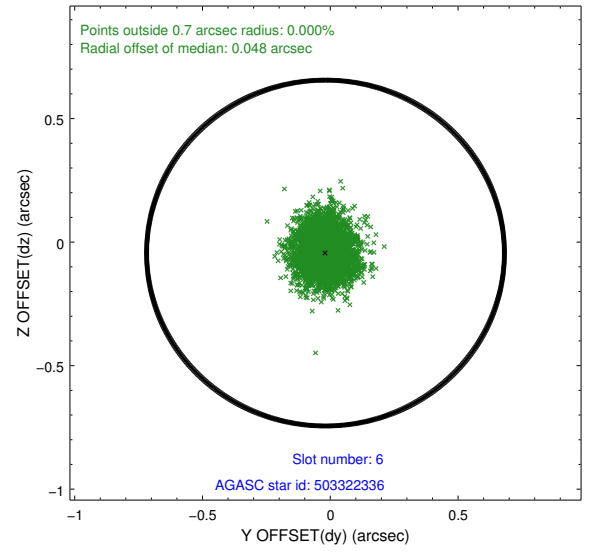
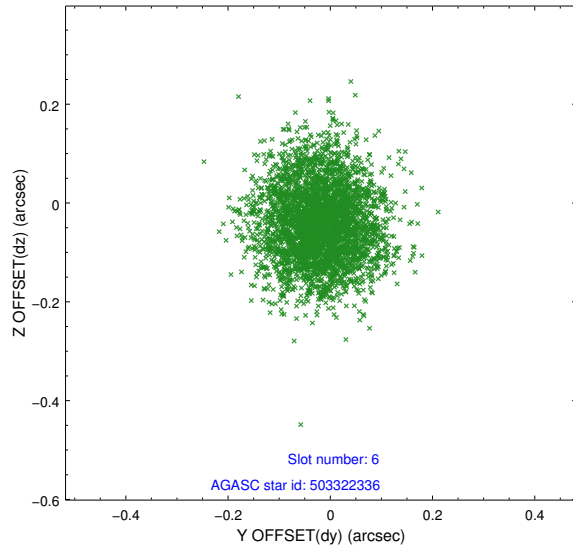
## 2.4.2 Slot 4



### 2.4.3 Slot 5

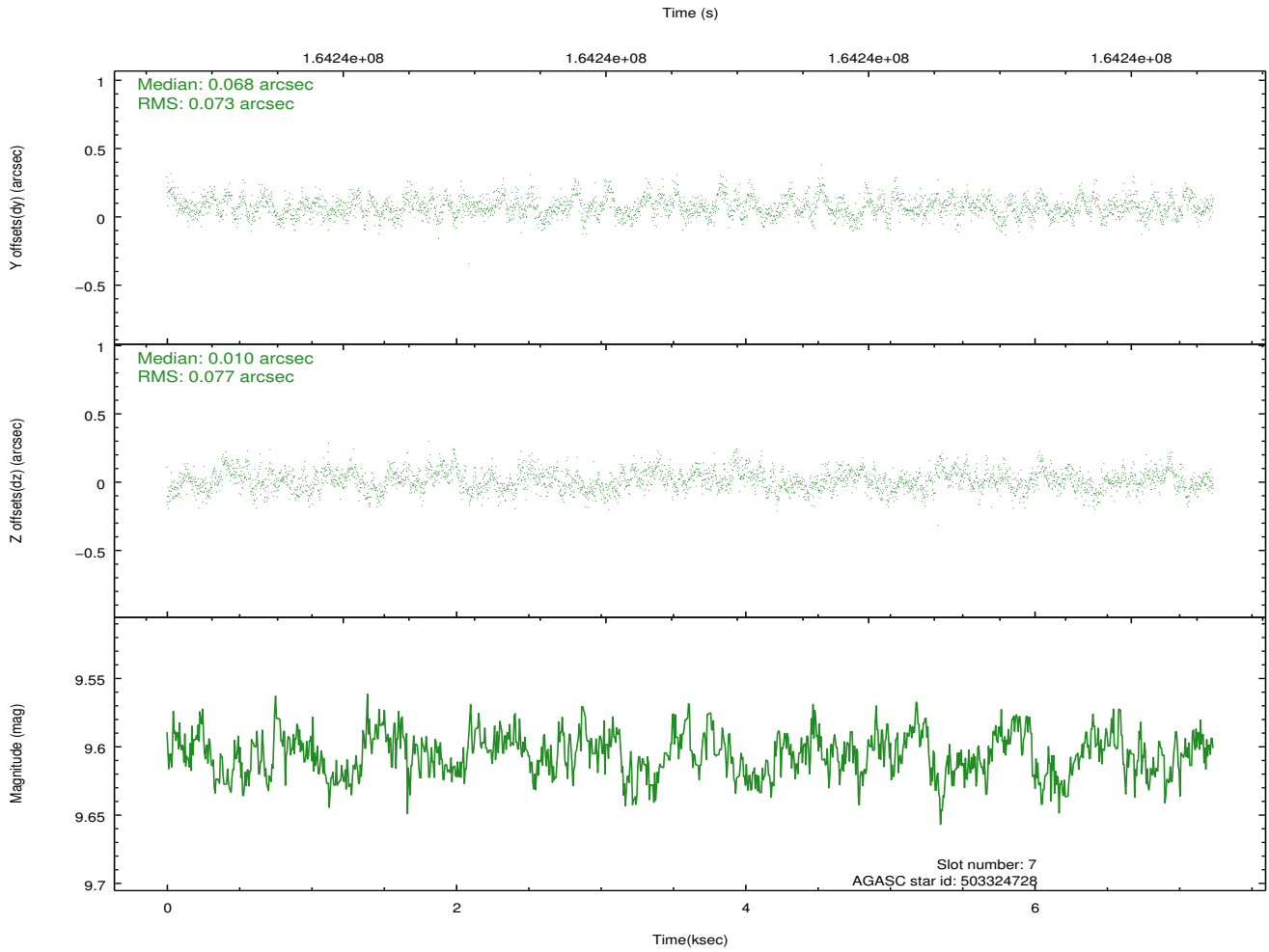
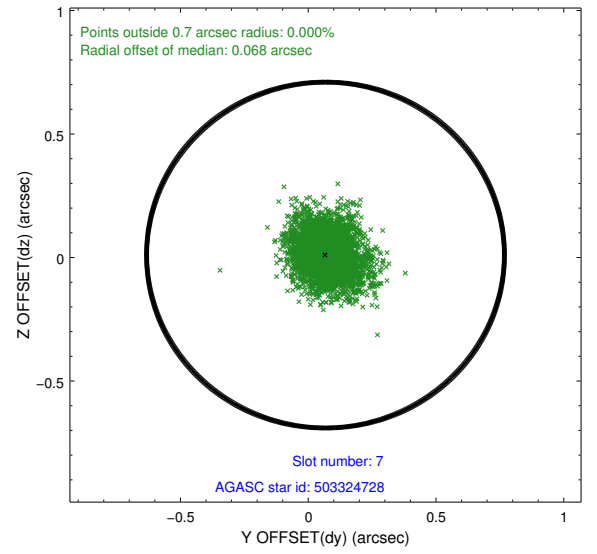
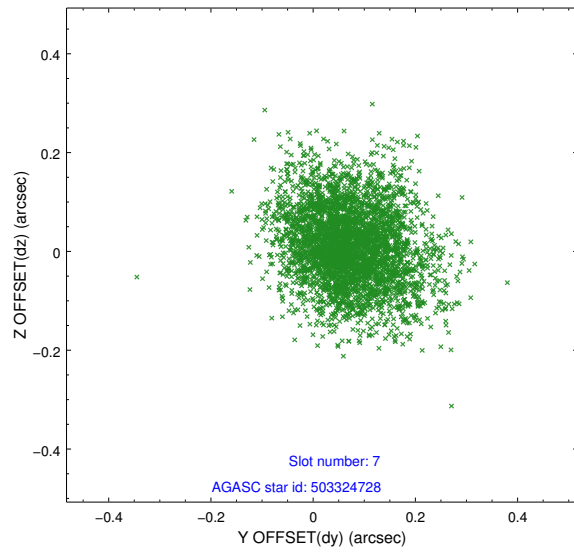


## 2.4.4 Slot 6



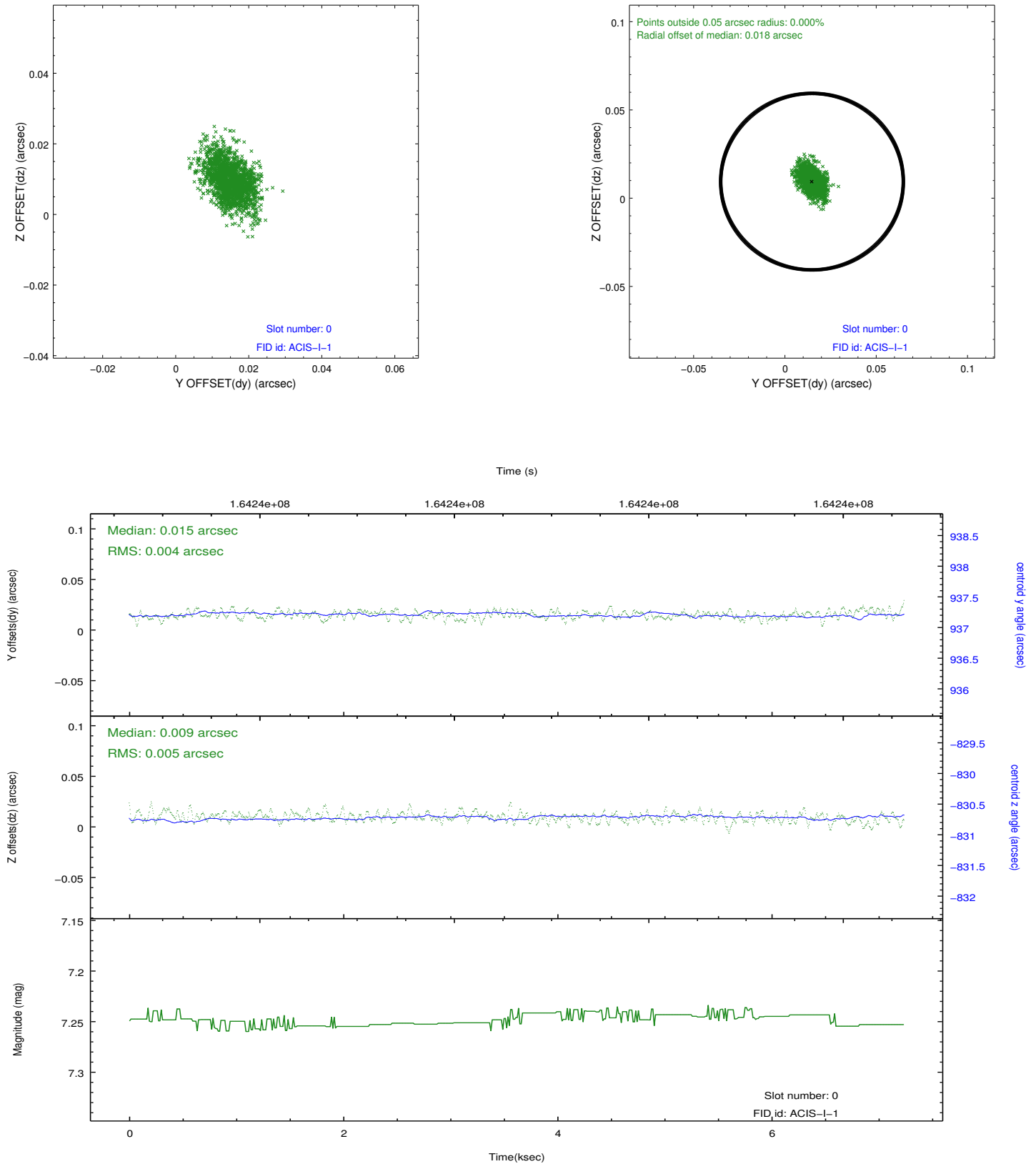


## 2.4.5 Slot 7

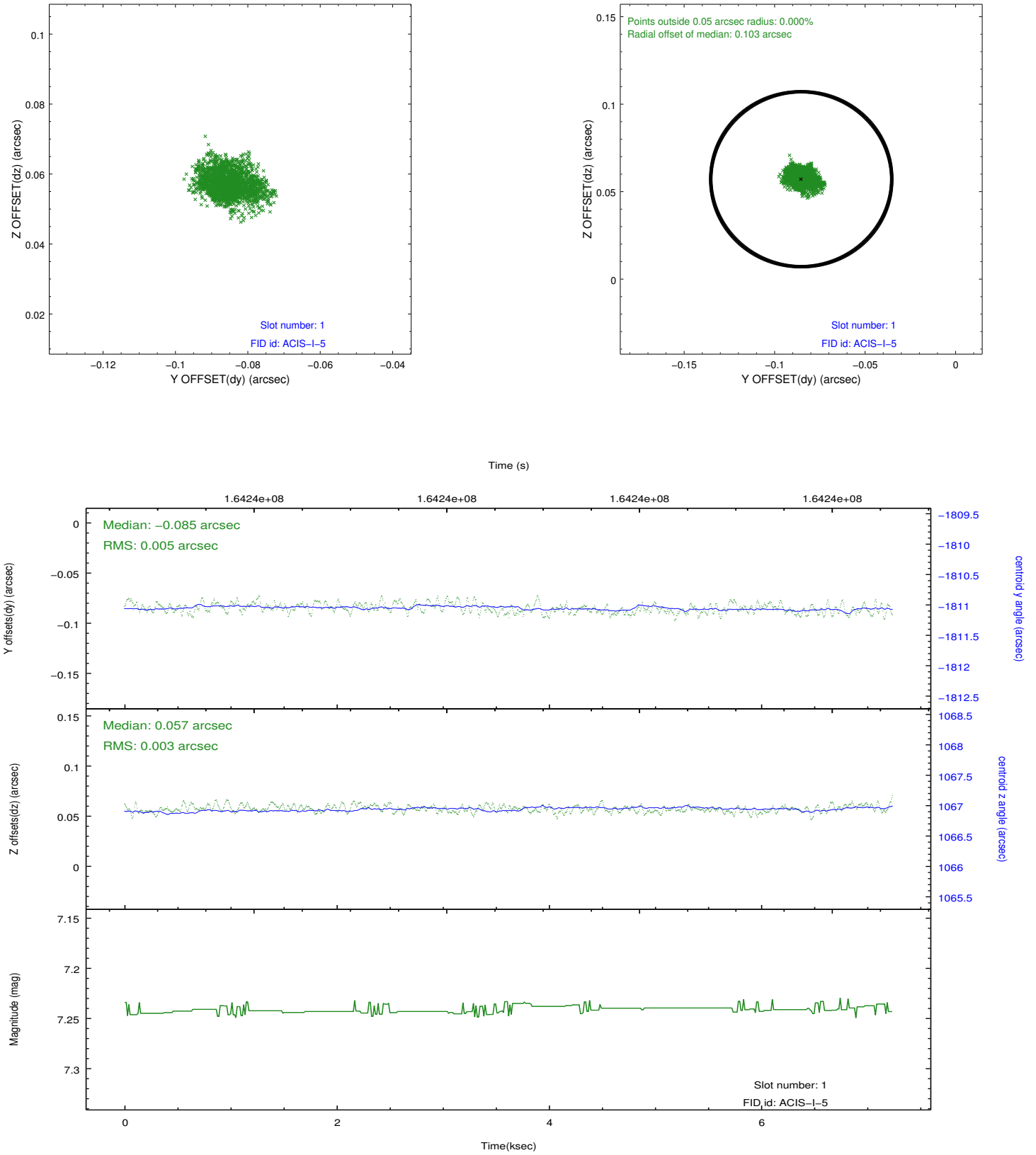


## 2.5 FID Slots

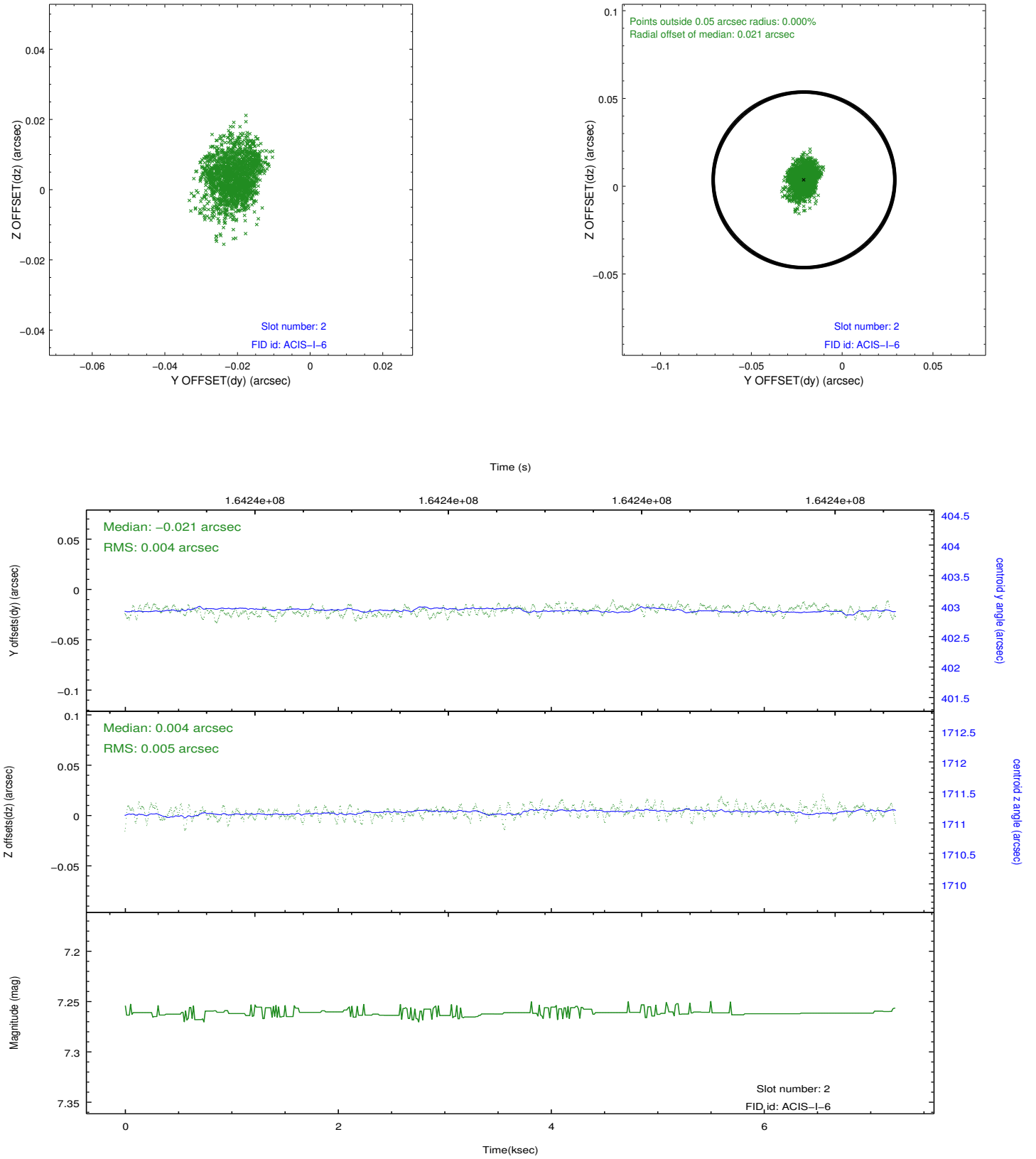
### 2.5.1 Slot 0



## 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)	2012.11.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.323

### A.2 Comments