

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4864 - L2 Version 3  
Chandra X-Ray Center

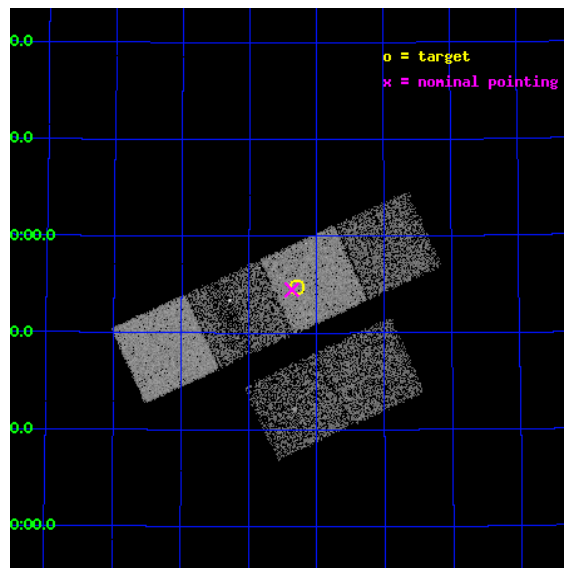
L2 Processing Date : Nov 7 2012

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# 1 Front

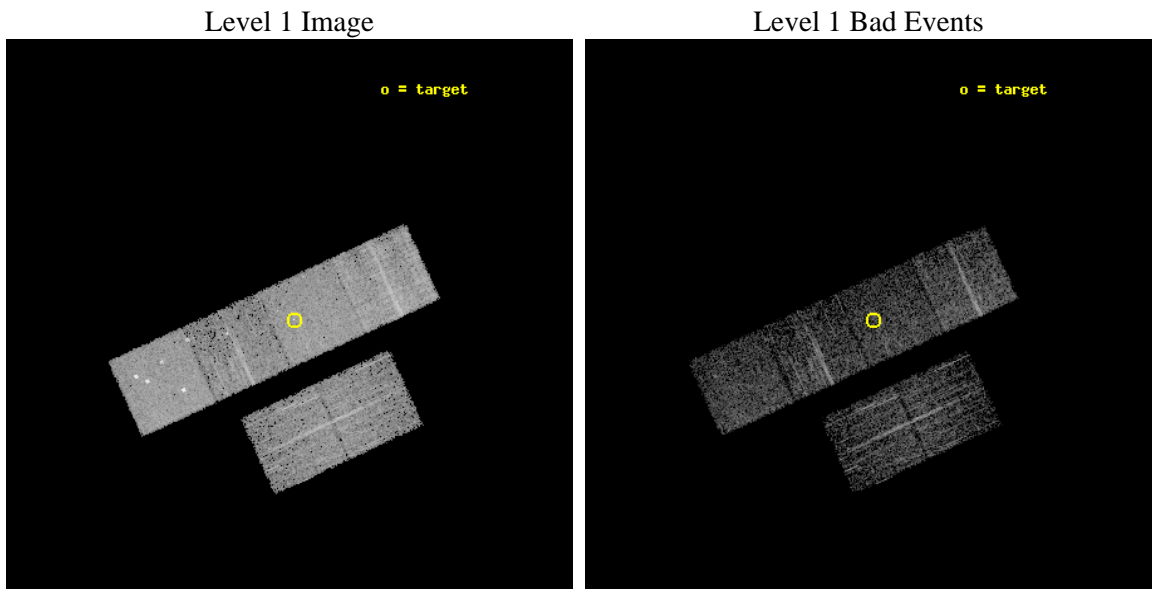
seq_num	700946	Sequence number
obs_id	4864	Observation id
title	X-ray Properties of Dust Reddened Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Dr. Gordon Richards	Principal investigator
object	SDSS J170817.87+615448.6	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	257.074583	Observer's specified target RA [deg]
dec_targ	61.9135	Observer's specified target Dec [deg]
ra_nom	257.09147281239	Nominal RA [deg]
dec_nom	61.908027726643	Nominal Dec [deg]
roll_nom	335.36873043778	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4108.7999846935	Sum of GTIs [s]
livetime	4056.771885265	Livetime [s]
ontime2	4108.7999846935	Sum of GTIs [s]
ontime3	4108.7999846935	Sum of GTIs [s]
ontime5	4108.7999846935	Sum of GTIs [s]
ontime6	4108.7999846935	Sum of GTIs [s]
ontime7	4108.7999846935	Sum of GTIs [s]
ontime8	4105.5590244234	Sum of GTIs [s]
l2events	45133	Number of level 2 events



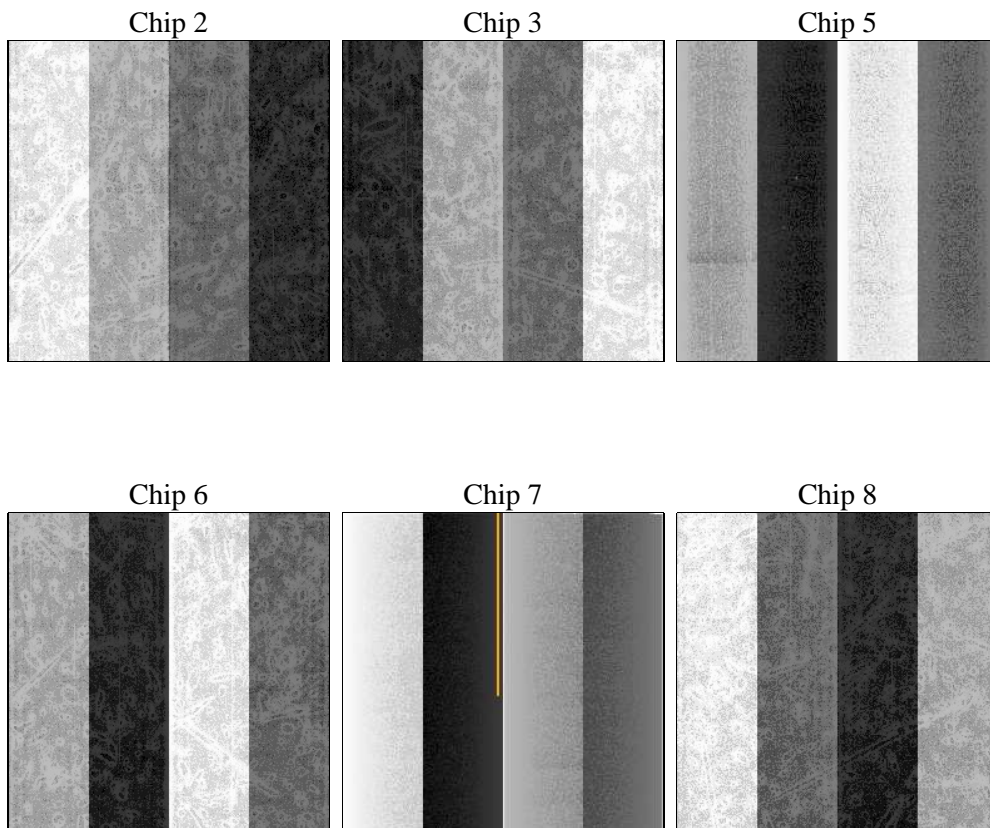
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4350.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4108.7999846935	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	4108.7999846935	Sum of GTIs [s]
date	2012-11-08T02:09:33	Date and time of file creation	ontime3	4108.7999846935	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4108.7999846935	Sum of GTIs [s]
			ontime6	4108.7999846935	Sum of GTIs [s]
			ontime7	4108.7999846935	Sum of GTIs [s]
			ontime8	4105.5590244234	Sum of GTIs [s]
			l1events	177801	Number of level 1 events

### 2.1.4 Events

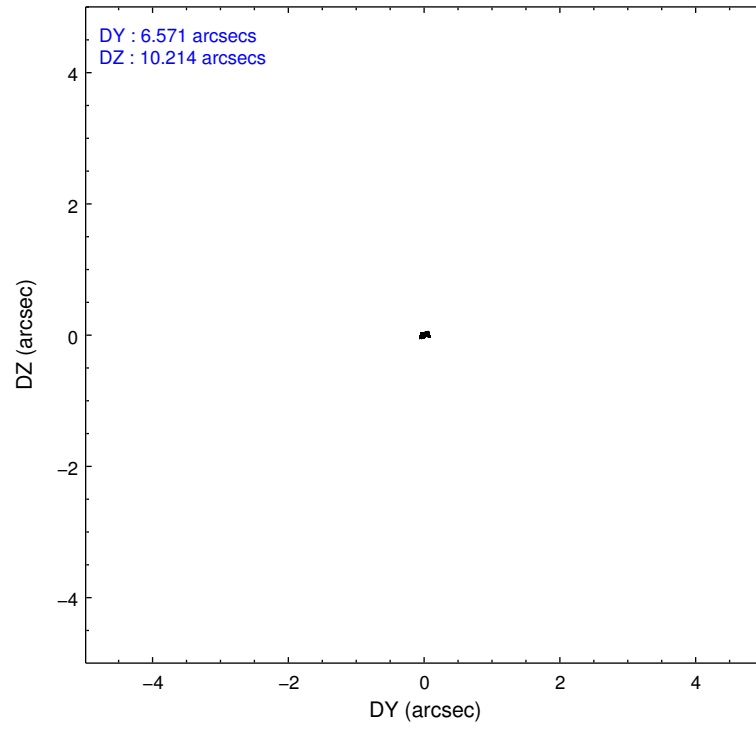
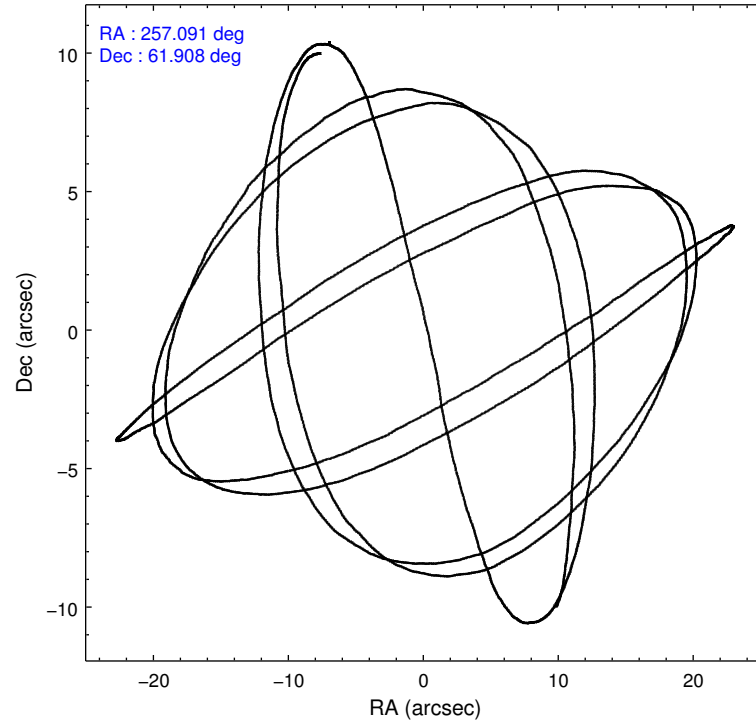
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	23396	22701	37837	23735	31623	38509	grade 0 events	1980	1766	4136	2028	1431	4858
rejected events	19245	18581	18242	19134	17456	25812		8%	7%	10%	8%	4%	12%
rejected %	82%	81%	48%	80%	55%	67%	grade 1 events	16	15	150	8	38	45
								0%	0%	0%	0%	0%	0%
							grade 2 events	885	976	5343	1151	2801	2140
								3%	4%	14%	4%	8%	5%
							grade 3 events	276	292	793	287	1215	1830
								1%	1%	2%	1%	3%	4%
							grade 4 events	312	288	793	289	1264	1601
								1%	1%	2%	1%	3%	4%
							grade 5 events	904	934	2514	987	2903	1353
								3%	4%	6%	4%	9%	3%
							grade 6 events	699	800	8538	849	7462	2274
								2%	3%	22%	3%	23%	5%
							grade 7 events	18324	17630	15570	18136	14509	24408
								78%	77%	41%	76%	45%	63%

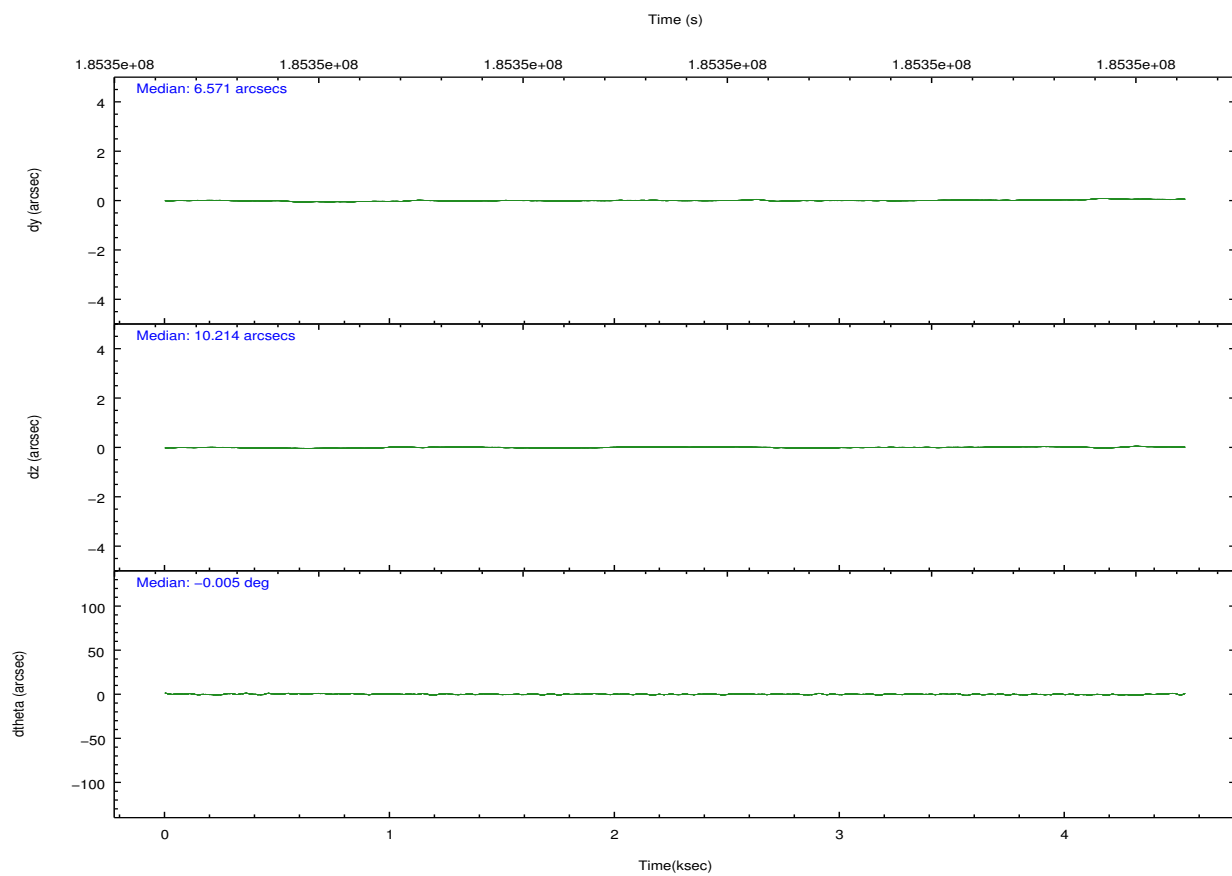
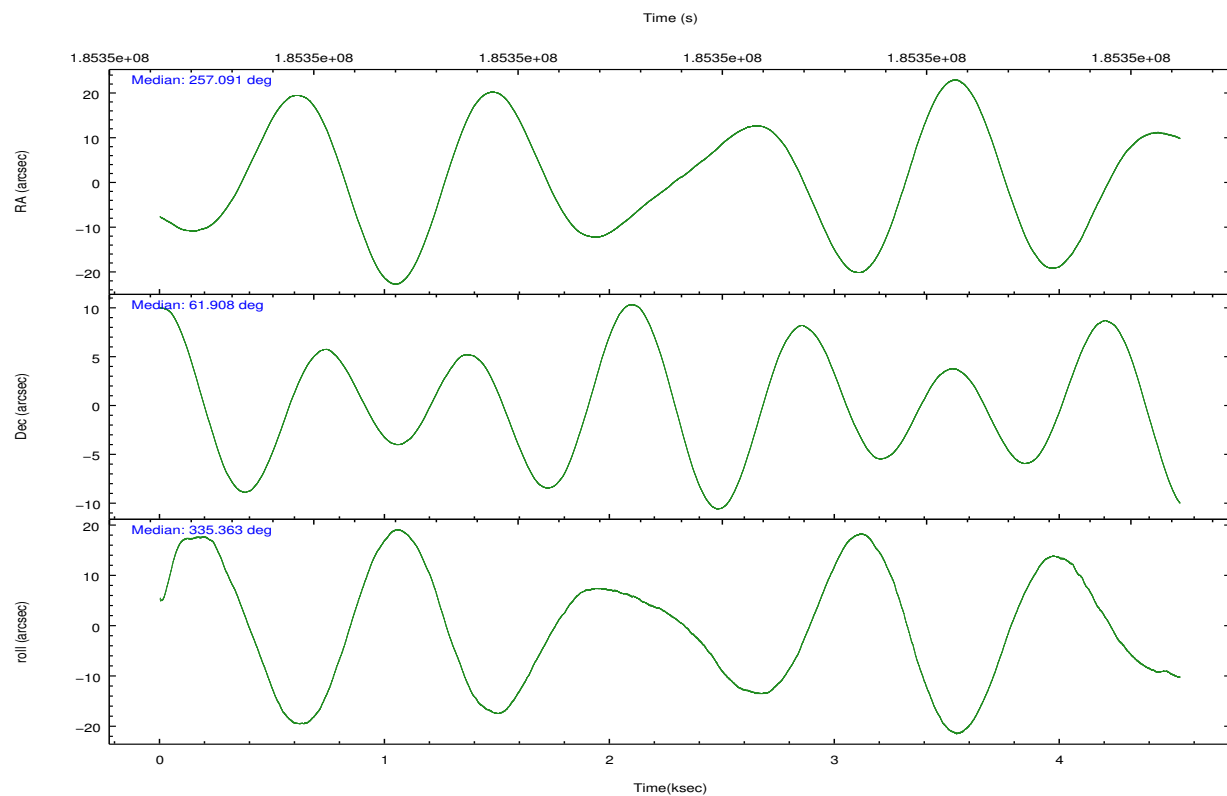


## 2.2 Compared Parameters

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	257.033964	257.0914728123901	Subarray requested	NONE	NONE
[deg] Pointing Dec	61.905064	61.90802772664306	Alternating exposures requested	N	N
[deg] Pointing Roll	335.262836	335.3687304377779	[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)	185349659.184000	185349170.78888			
Observation start date	2003-11-16T05:59:55	2003-11-16T05:52:50			
[s] Observation end time (MET)	185354009.184000	185355402.27665			
Observation end date	2003-11-16T07:12:25	2003-11-16T07:36:42			
Read mode	TIMED	TIMED			

## 2.3 Aspect



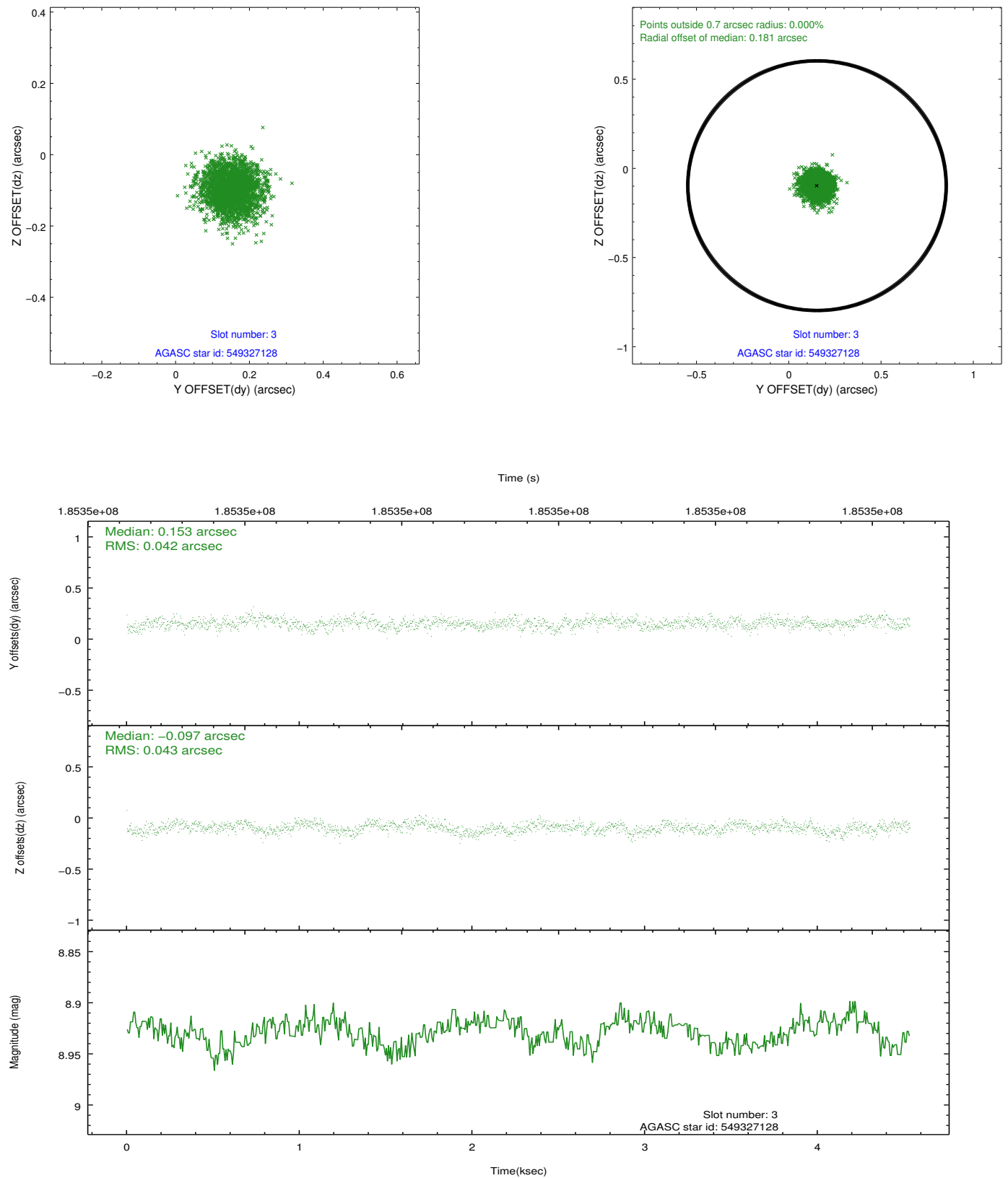


### Slot Statistics

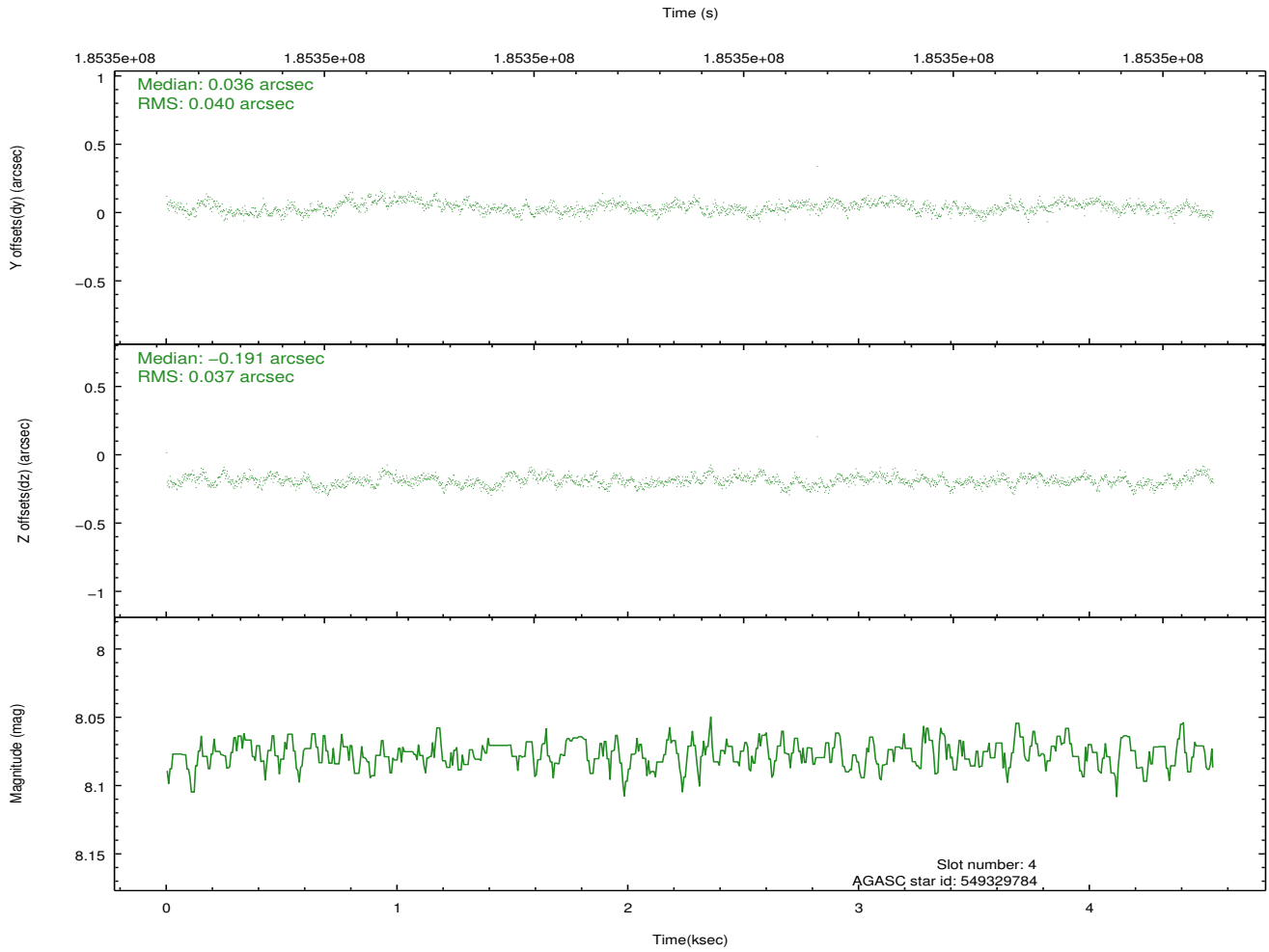
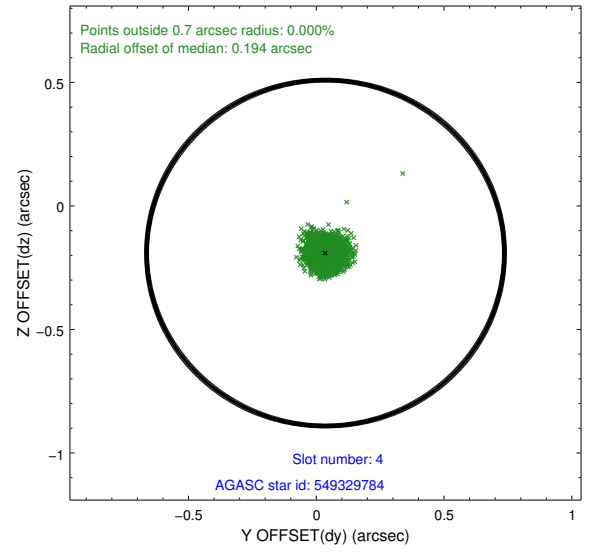
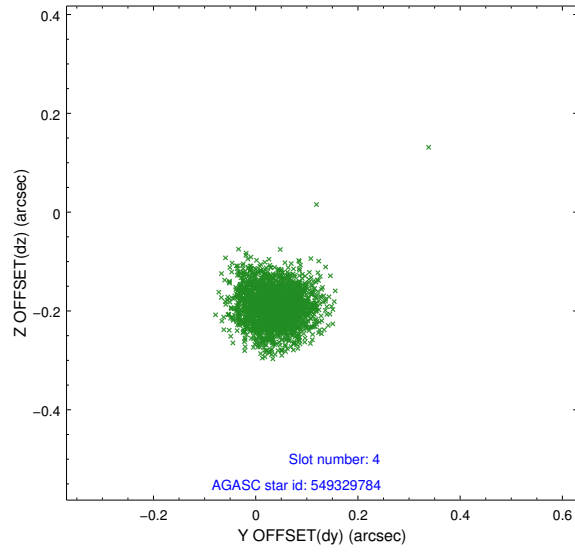
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1107	-0.064	-0.046	0.005	0.010	0.000000	0.000000	-759.36	-1731.52
1	FID	ACIS-S-4	7.20	1106	0.057	0.030	0.006	0.010	0.000000	0.000000	2153.40	175.66
2	FID	ACIS-S-6	7.35	1106	-0.021	0.023	0.007	0.011	0.000000	0.000000	404.39	814.58
3	GUIDE	549327128	8.93	2212	0.153	-0.097	0.065	0.102	255.986843	62.207313	-2057.32	265.76
4	GUIDE	549329784	8.08	2213	0.036	-0.191	0.058	0.092	256.133381	62.172125	-1781.81	249.22
5	GUIDE	549342520	8.65	2212	-0.132	0.120	0.076	0.121	256.593856	61.305117	211.43	-2277.34
6	GUIDE	550767104	9.32	2212	0.076	0.082	0.082	0.134	258.785636	62.176018	2248.58	2152.91
7	GUIDE	549325920	6.91	2212	-0.141	0.090	0.058	0.102	257.031396	61.159618	1120.29	-2437.87

## 2.4 Star Slots

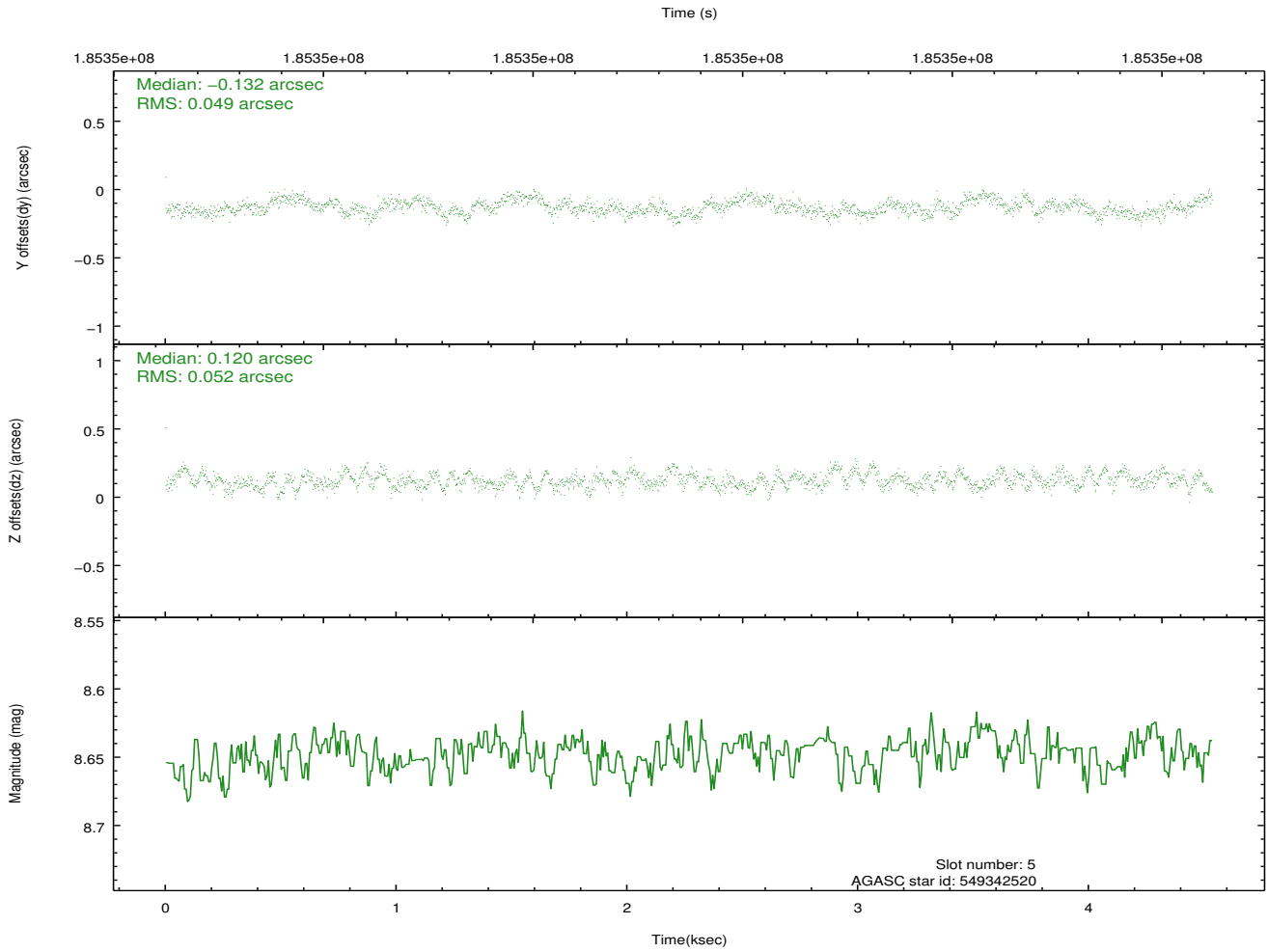
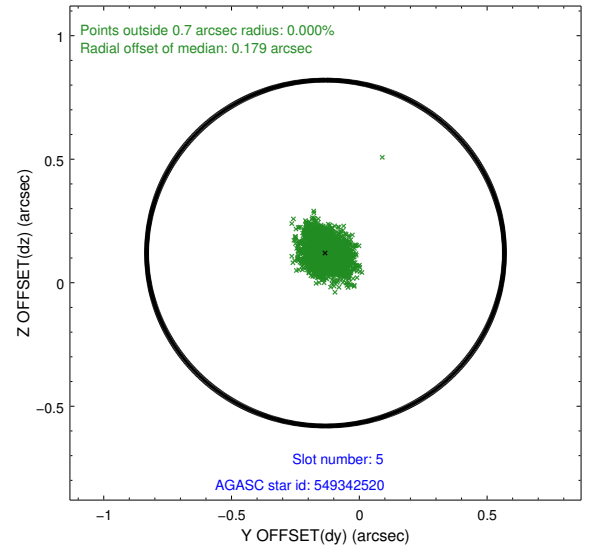
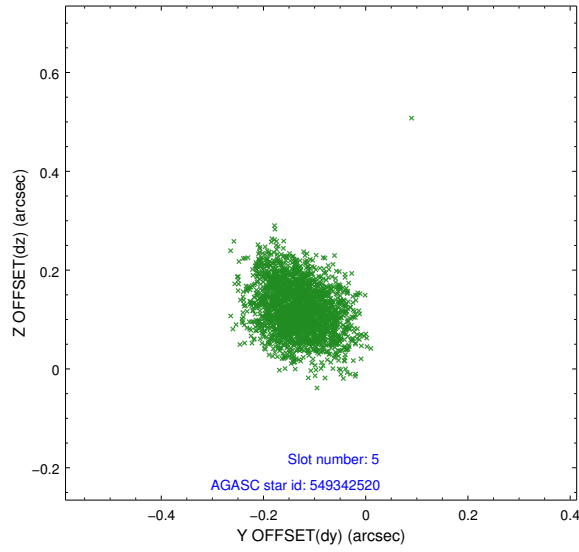
### 2.4.1 Slot 3



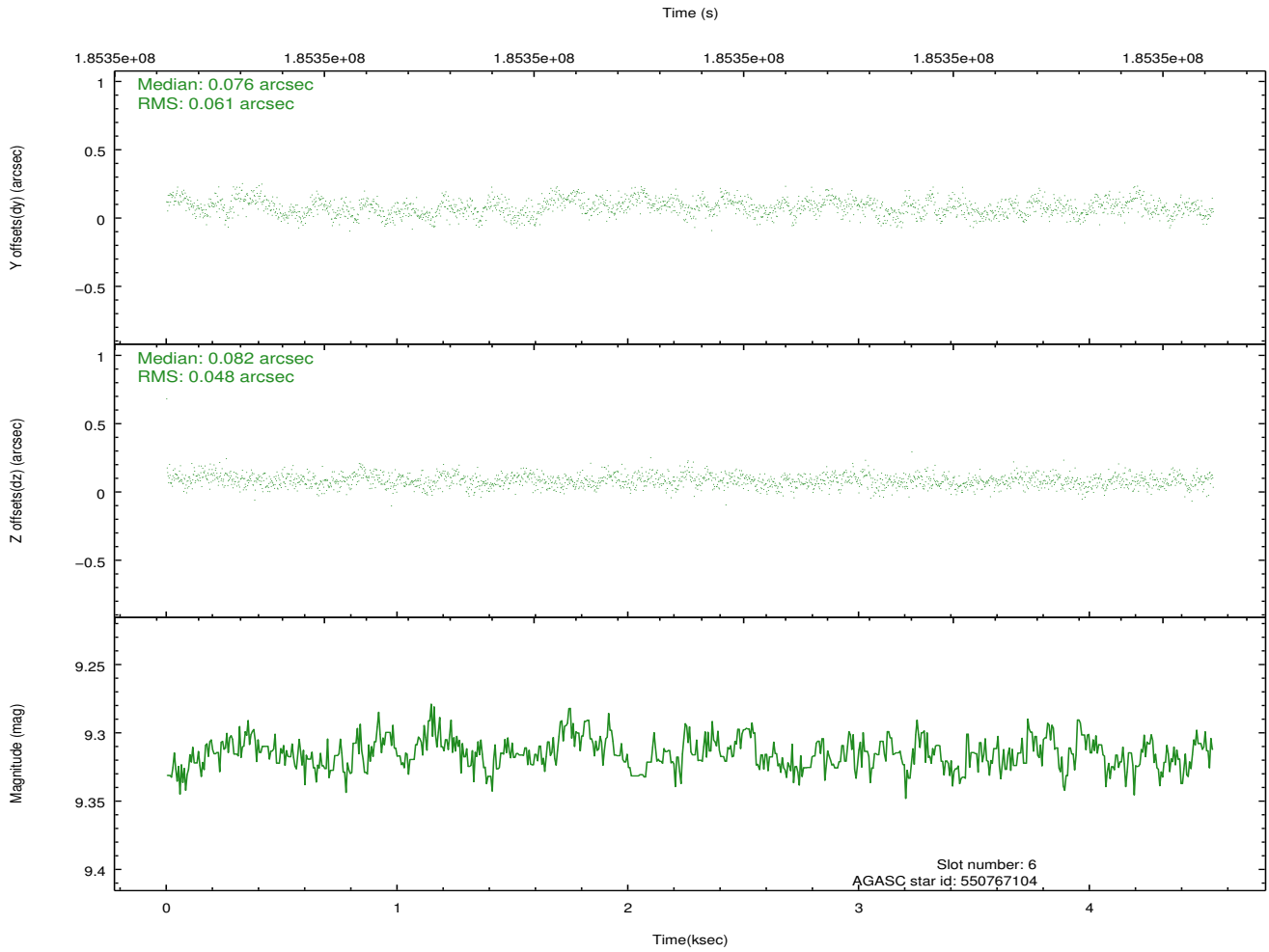
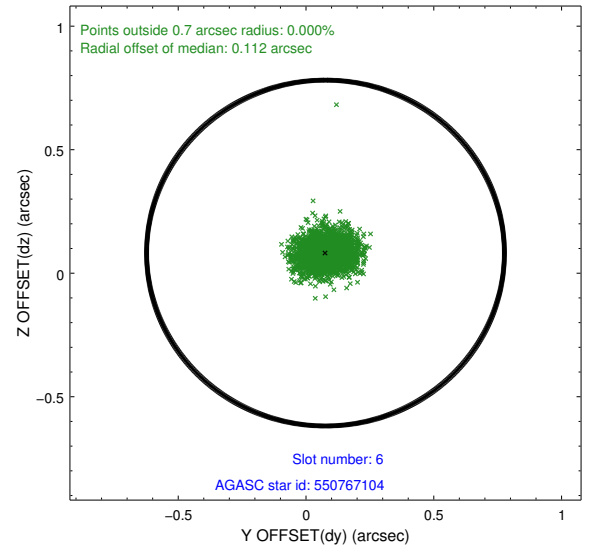
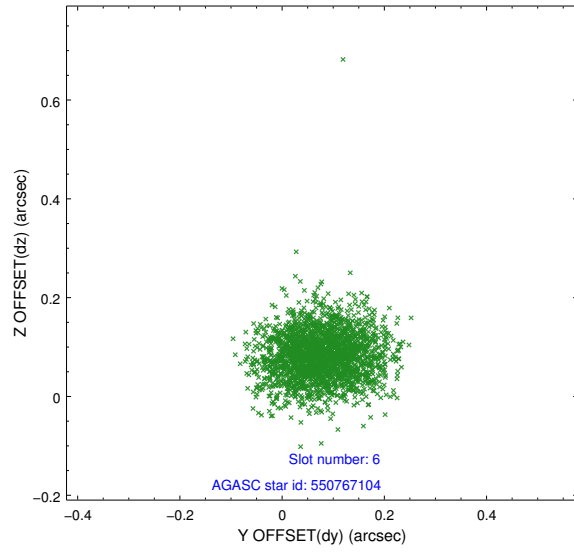
## 2.4.2 Slot 4



### 2.4.3 Slot 5

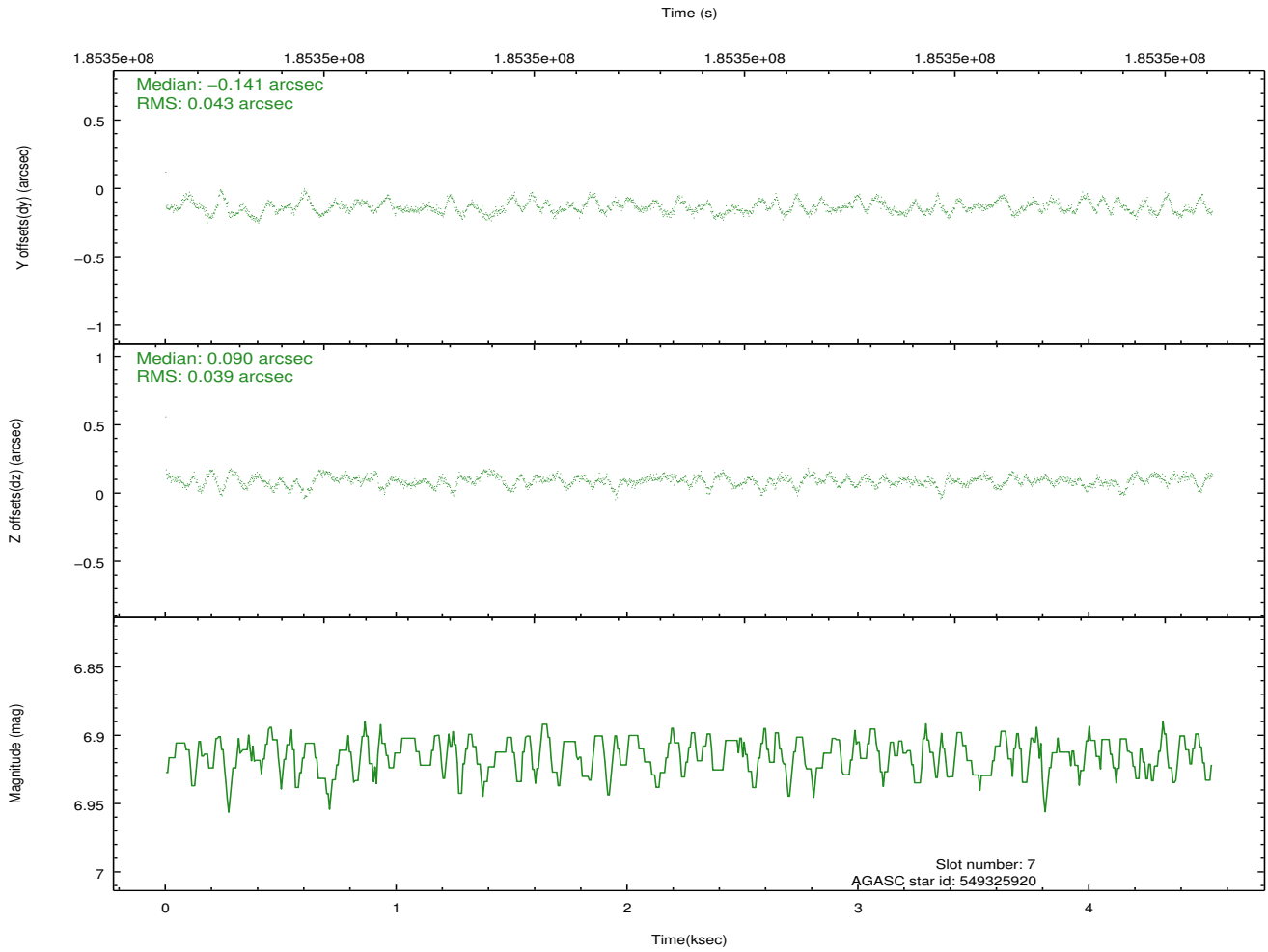
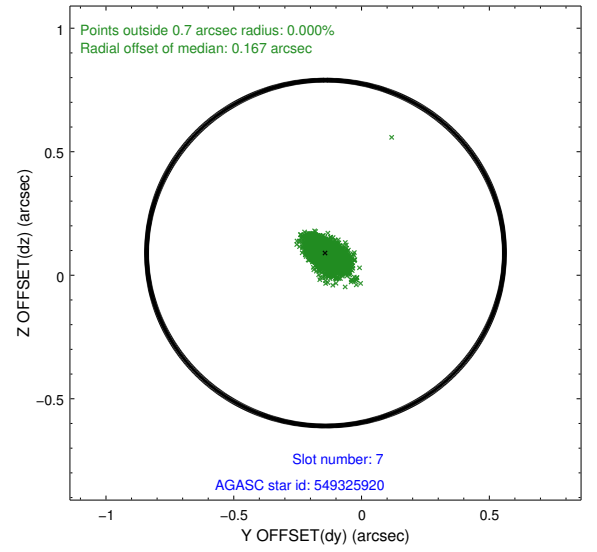
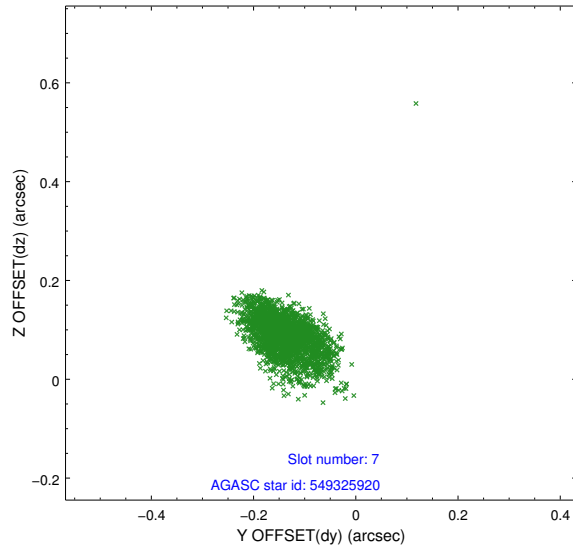


## 2.4.4 Slot 6



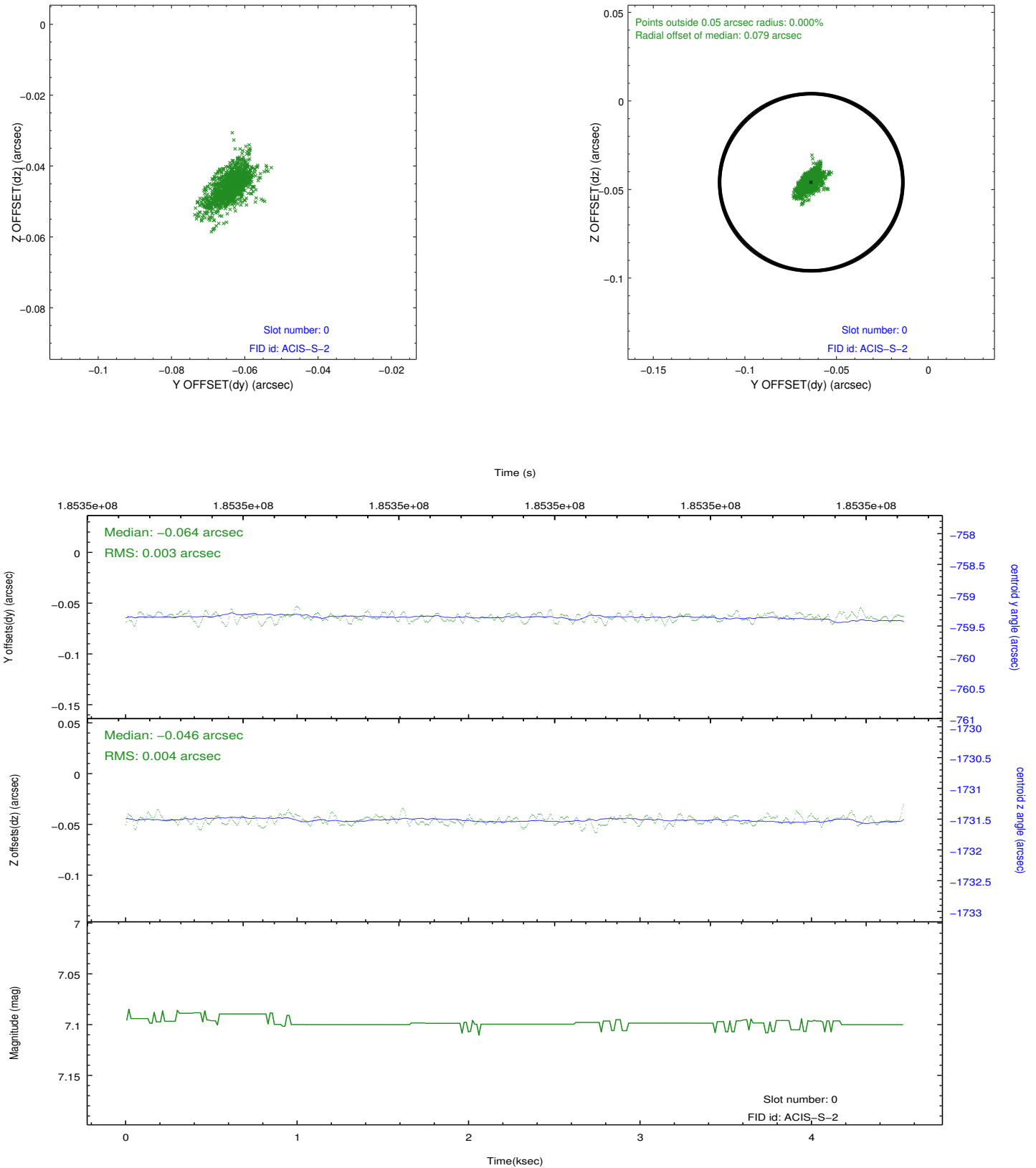


## 2.4.5 Slot 7

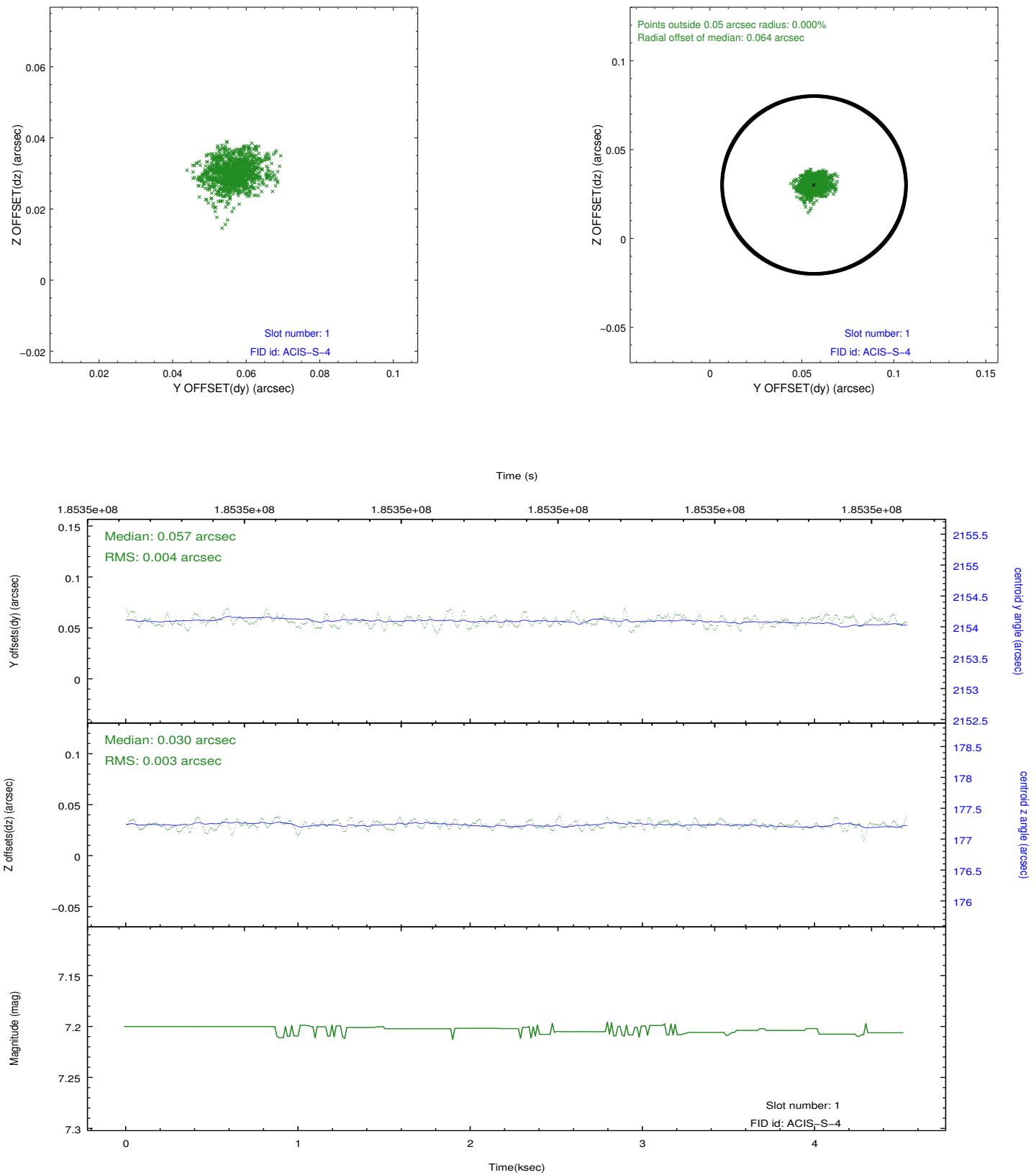


## 2.5 FID Slots

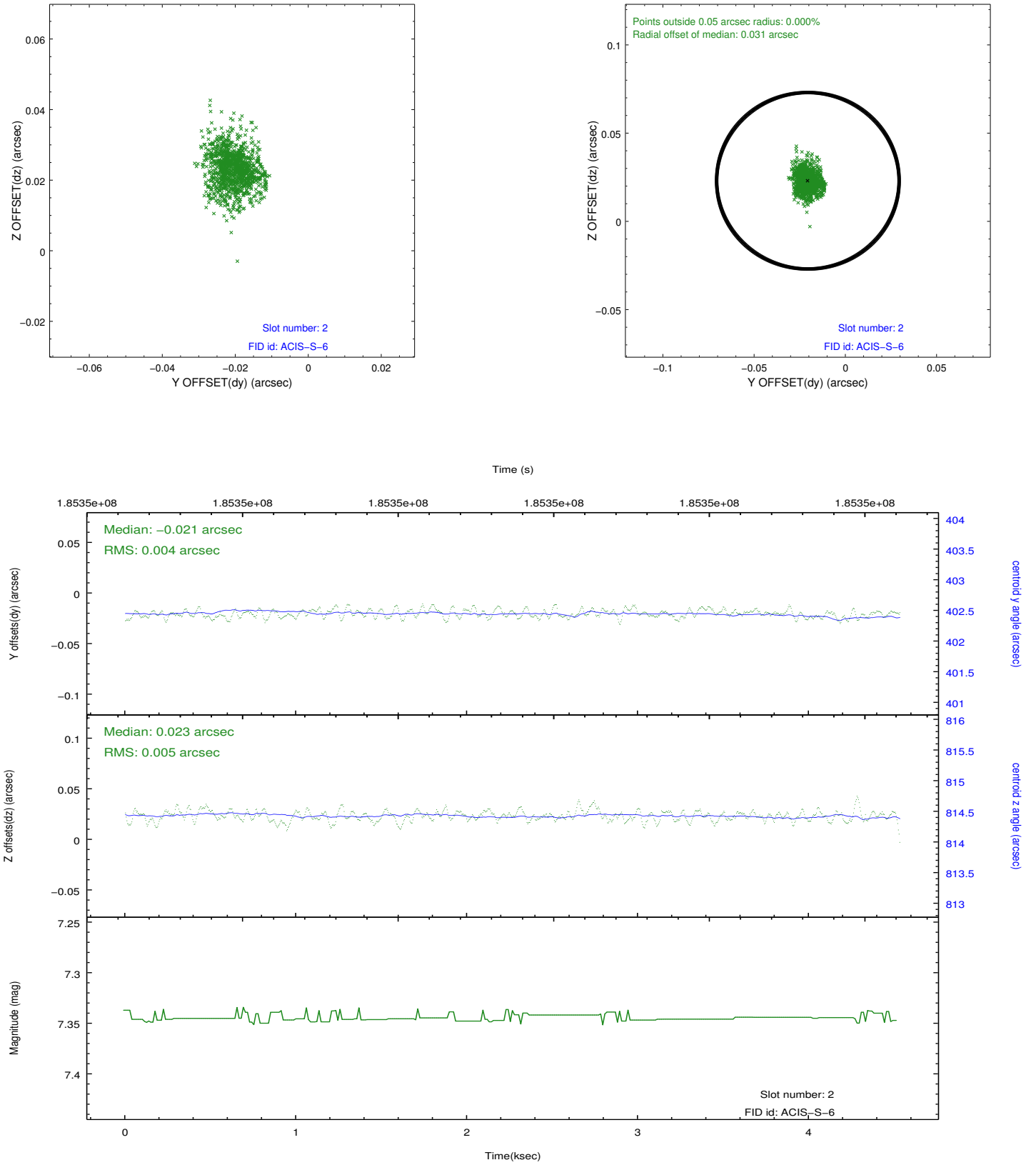
### 2.5.1 Slot 0



## 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)	2012.11.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.111

### **A.2 Comments**