

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 12723 - L2 Version 2  
Chandra X-Ray Center

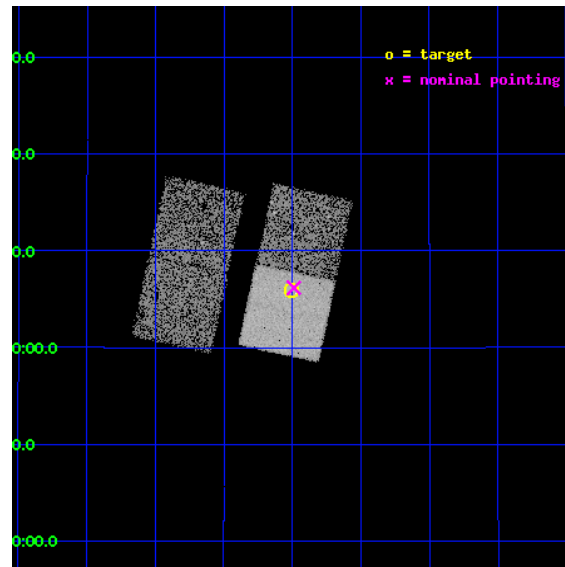
L2 Processing Date : Jul 5 2012

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# 1 Front

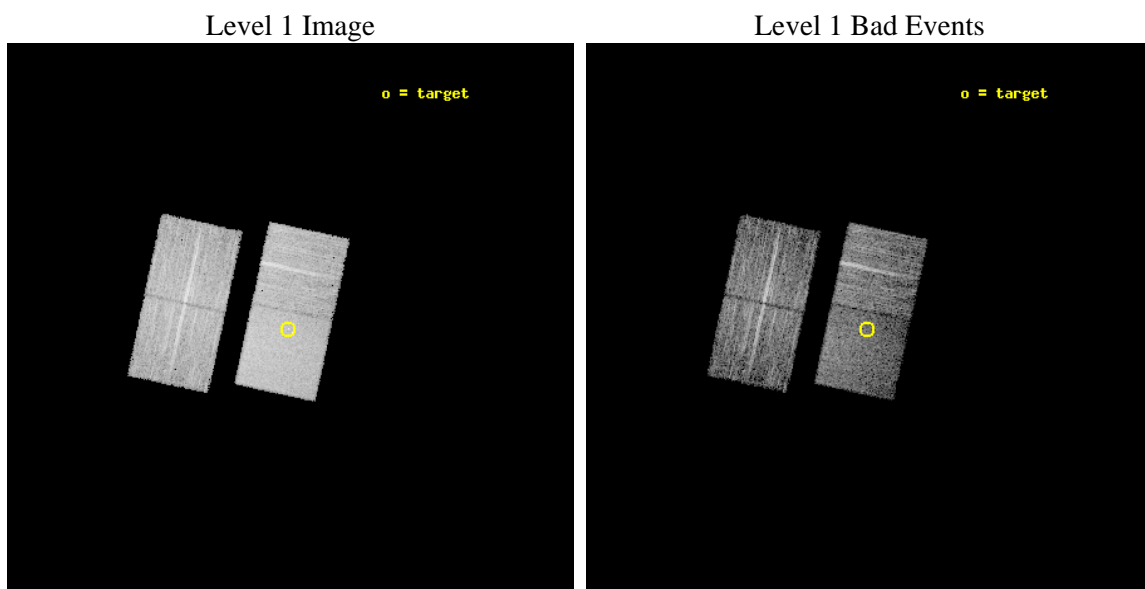
seq_num	702359	Sequence number
obs_id	12723	Observation id
title	Completing the Chandra 3C Snapshot Survey: Extragalactic Radio Sources with $z < 0.3$	Proposal title
observer	Dr. Daniel Harris	Principal investigator
object	3C 79	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	47.500833	Observer's specified target RA [deg]
dec_targ	17.099583	Observer's specified target Dec [deg]
ra_nom	47.497230894349	Nominal RA [deg]
dec_nom	17.103084022002	Nominal Dec [deg]
roll_nom	102.19268371374	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7790.3000599146	Sum of GTIs [s]
livetime	7688.5140544963	Livetime [s]
ontime2	7787.1590896249	Sum of GTIs [s]
ontime3	7790.3000599146	Sum of GTIs [s]
ontime6	7790.3000599146	Sum of GTIs [s]
ontime7	7790.3000599146	Sum of GTIs [s]
l2events	44771	Number of level 2 events



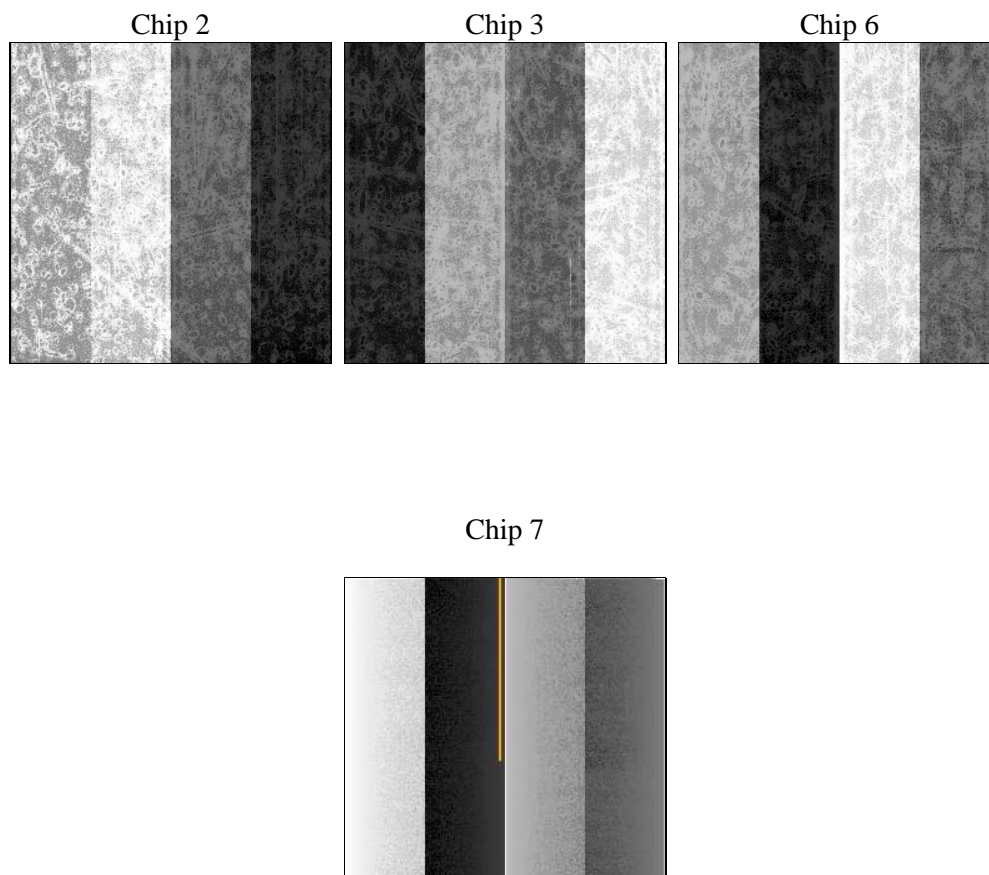
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7790.3000599146	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime2	7787.1590896249	Sum of GTIs [s]
date	2012-07-05T21:18:50	Date and time of file creation	ontime3	7790.3000599146	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	7790.3000599146	Sum of GTIs [s]
			ontime7	7790.3000599146	Sum of GTIs [s]
			l1events	228325	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	54965	51028	55162	67170
rejected events	49055	45449	48958	36850
rejected %	89%	89%	88%	54%

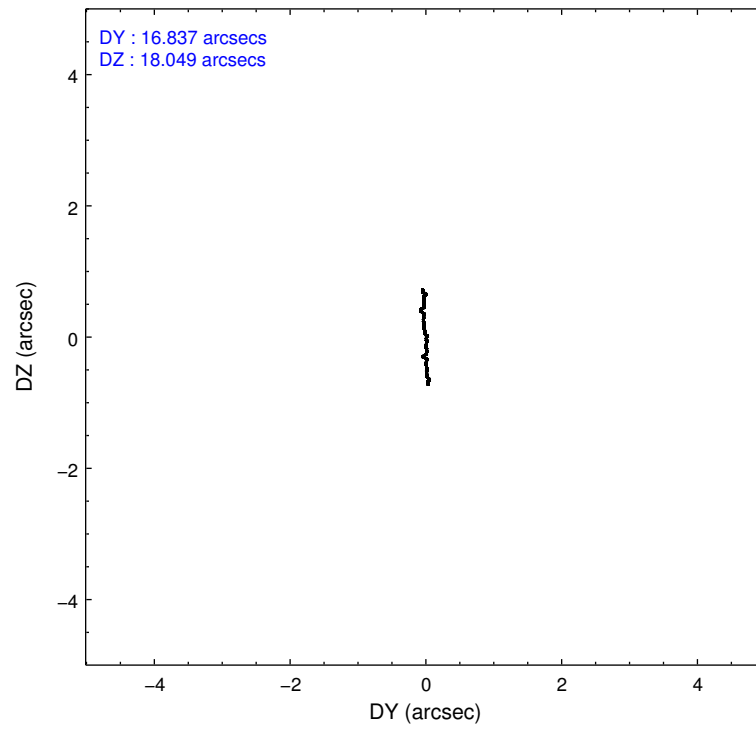
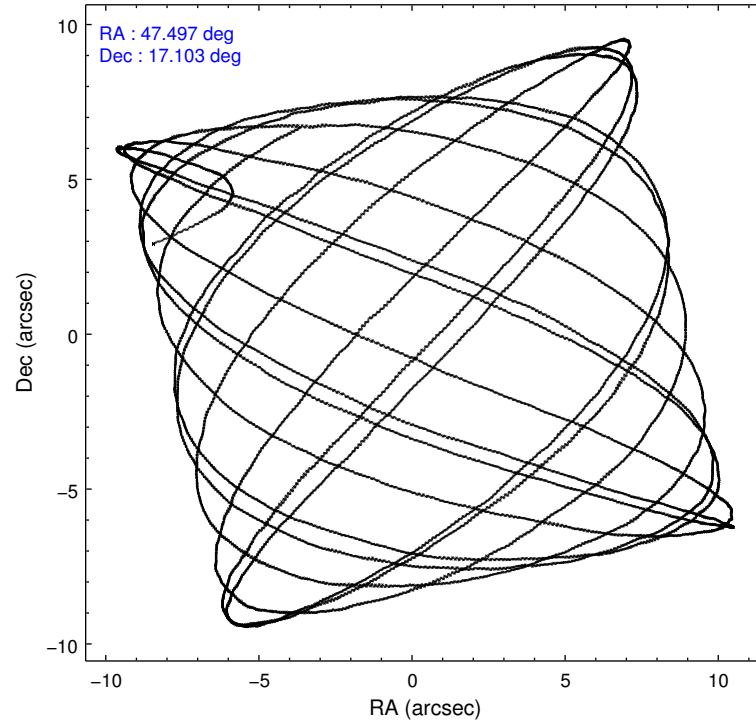
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2073	1984	2189	2749
	3%	3%	3%	4%
grade 1 events	31	45	33	70
	0%	0%	0%	0%
grade 2 events	1424	1213	1316	6193
	2%	2%	2%	9%
grade 3 events	612	641	657	2679
	1%	1%	1%	3%
grade 4 events	634	599	624	2609
	1%	1%	1%	3%
grade 5 events	2130	2485	2459	7000
	3%	4%	4%	10%
grade 6 events	1169	1143	1419	16098
	2%	2%	2%	23%
grade 7 events	46892	42918	46465	29772
	85%	84%	84%	44%

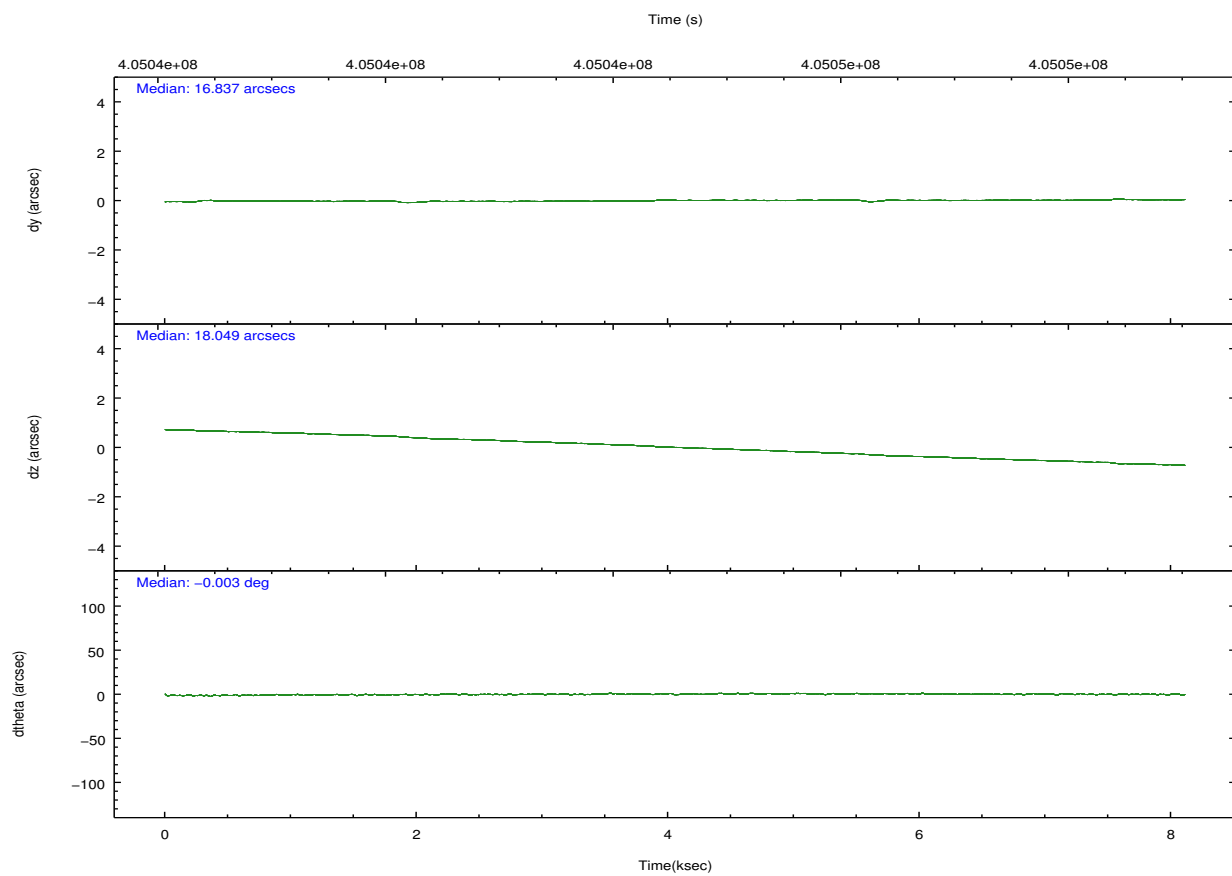
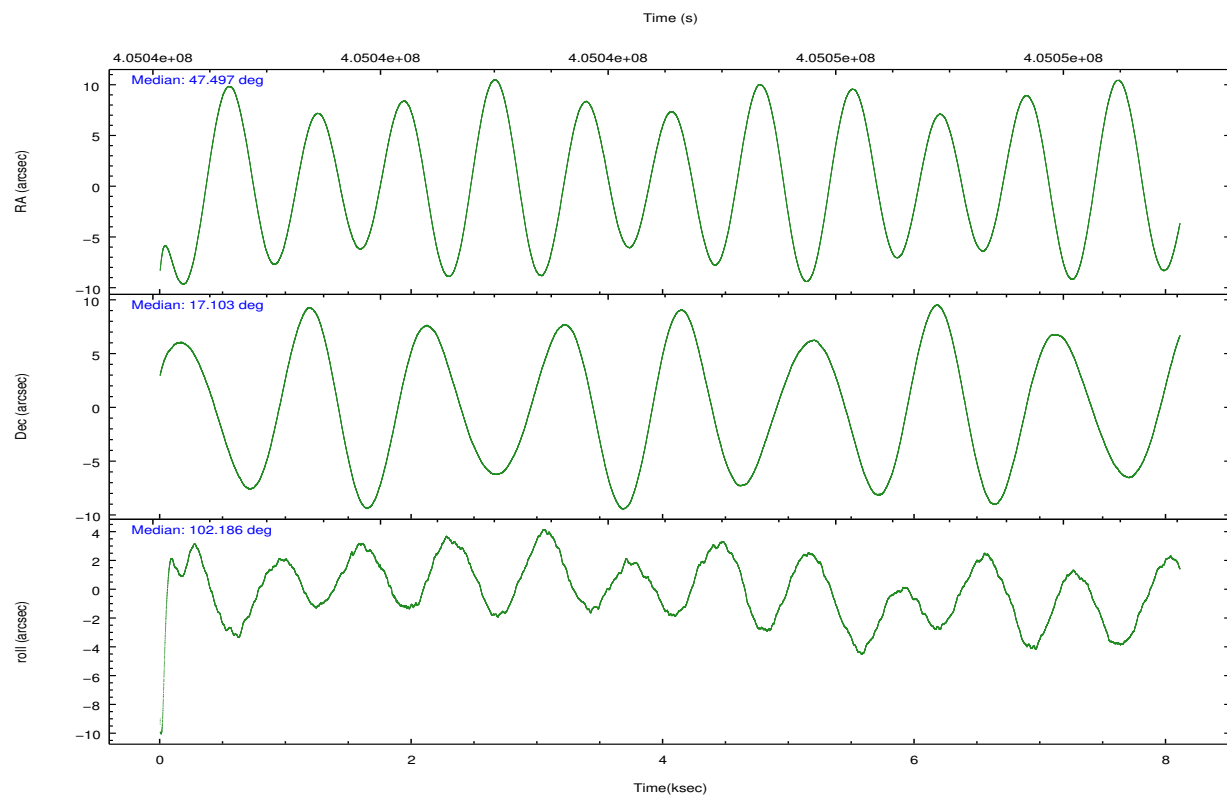


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	47.516811	47.49723089434946	CCD I2 on	O1	Y
[deg] Pointing Dec	17.083078	17.10308402200243	CCD I3 on	O2	Y
[deg] Pointing Roll	102.030320	102.1926837137403	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	N	N
[s] Observation start time (MET)	405040594.184000	405039245.7926	CCD S5 on	N	N
Observation start date	2010-11-01T23:15:28	2010-11-01T22:54:05	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	405048594.184000	405049326.15562	On-chip summing requested	N	N
Observation end date	2010-11-02T01:28:48	2010-11-02T01:42:06	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



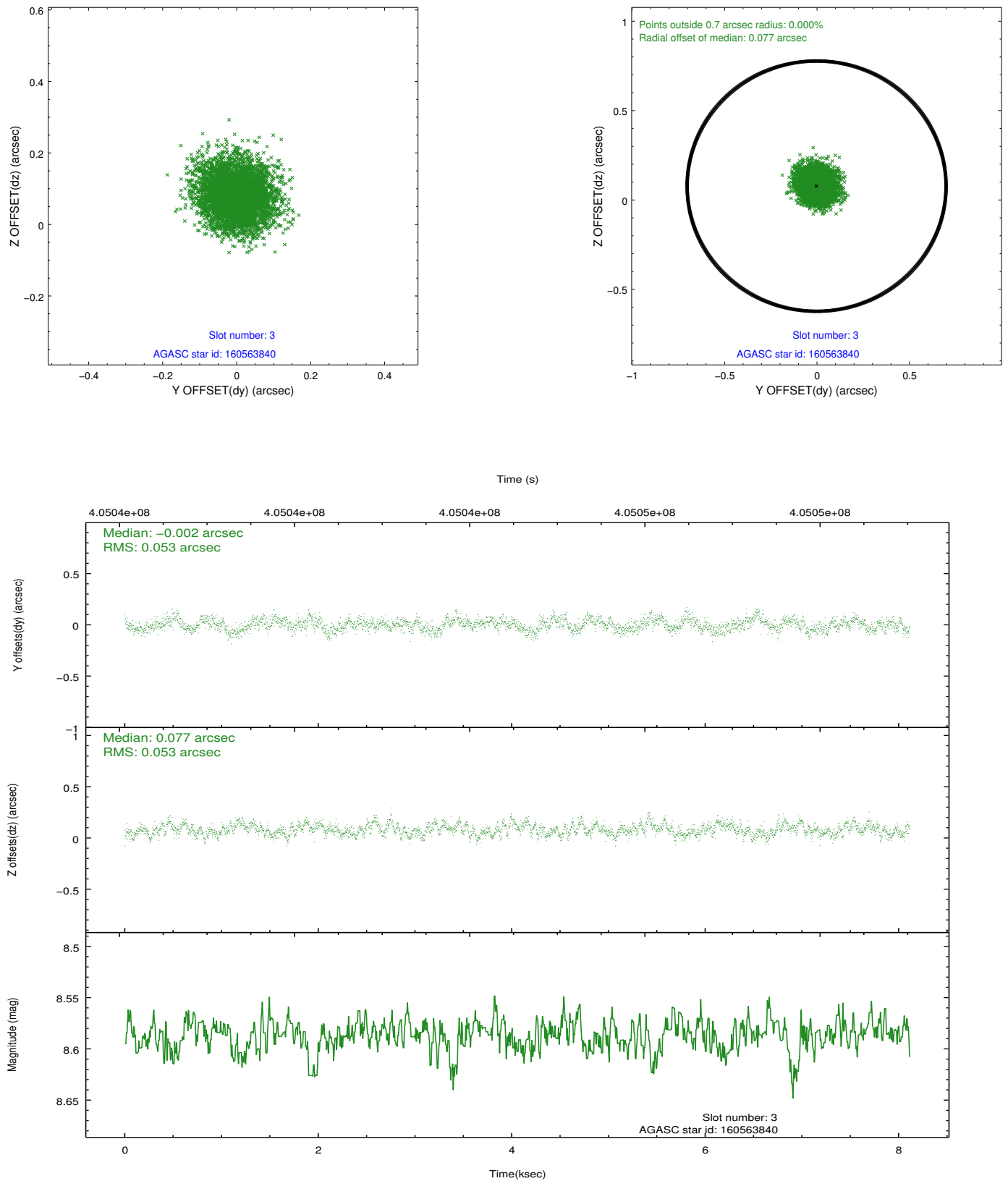


### Slot Statistics

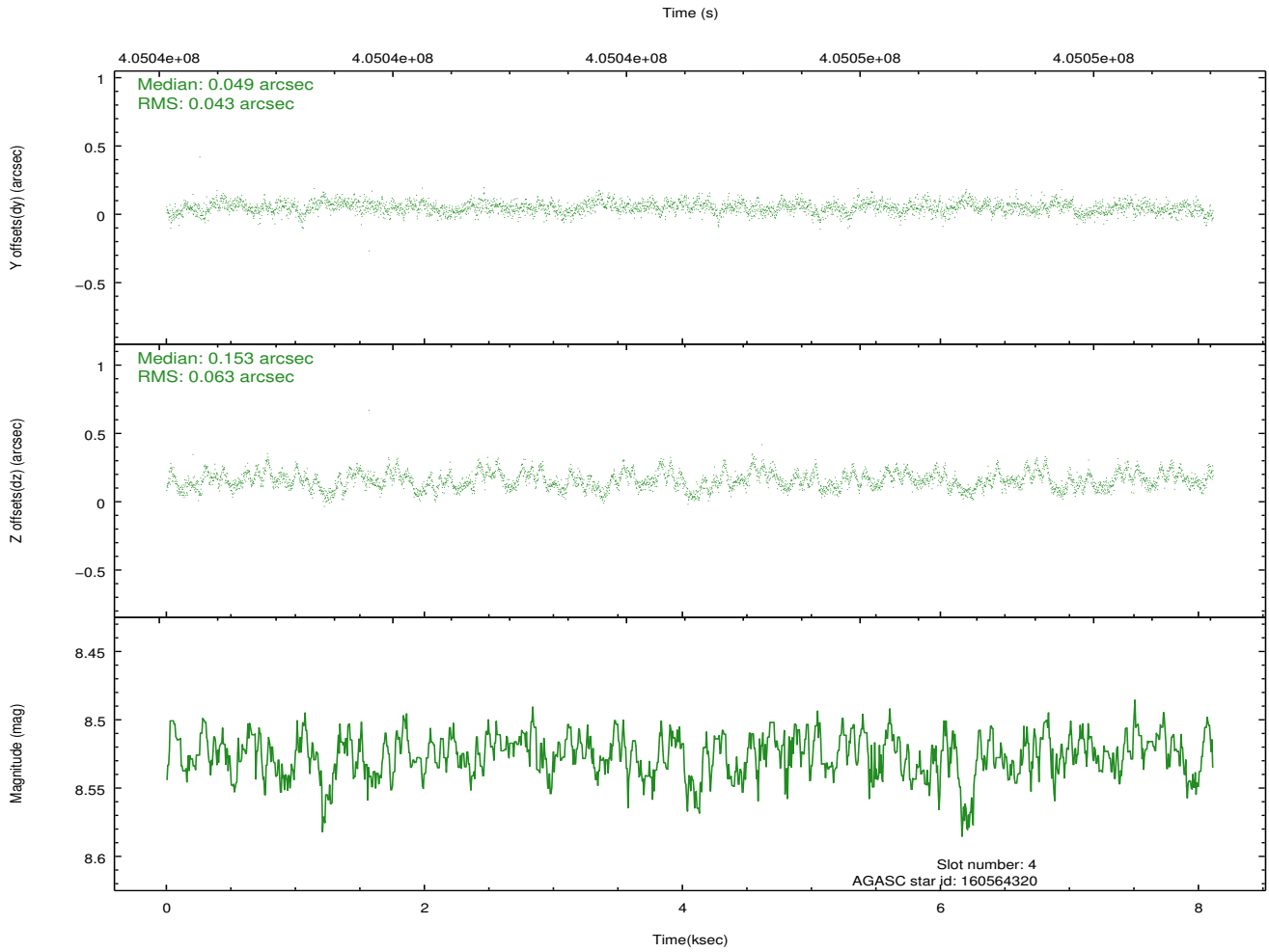
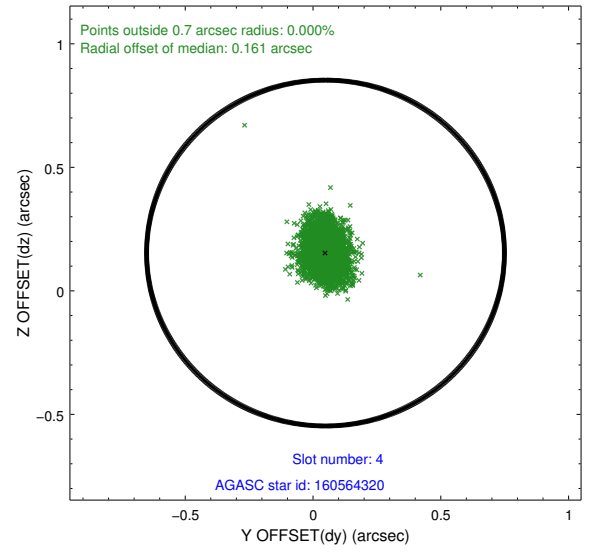
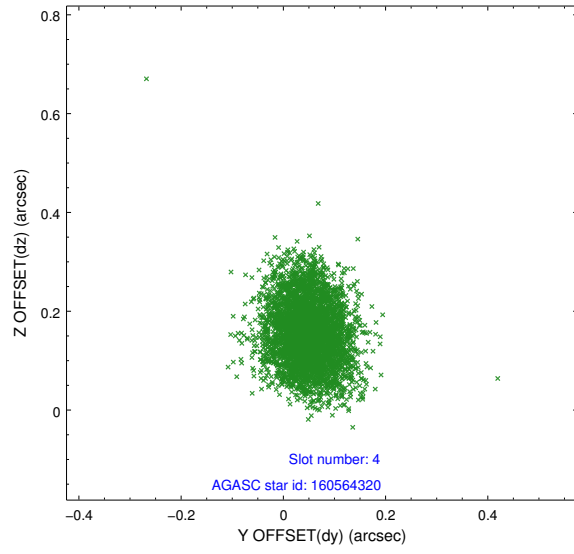
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.89	1979	-0.068	-0.048	0.009	0.015	0.000000	0.000000	-769.95	-1739.50
1	FID	ACIS-S-4	6.97	1979	0.168	0.045	0.008	0.014	0.000000	0.000000	2143.28	168.30
2	FID	ACIS-S-5	7.01	1979	-0.132	0.010	0.007	0.012	0.000000	0.000000	-1821.94	162.81
3	GUIDE	160563840	8.59	3957	-0.002	0.077	0.081	0.126	47.769917	17.304115	597.97	-1017.24
4	GUIDE	160564320	8.53	3958	0.049	0.153	0.082	0.134	47.024010	16.925465	-198.86	1777.49
5	GUIDE	160565072	7.18	3957	-0.120	-0.309	0.066	0.107	47.418988	17.260873	695.84	195.77
6	GUIDE	160579040	9.05	3951	0.147	-0.064	0.102	0.169	47.408348	16.904698	-549.76	498.89
7	GUIDE	160961024	8.77	3891	-0.077	0.148	0.076	0.122	47.425098	17.660913	2100.17	-125.68

## 2.4 Star Slots

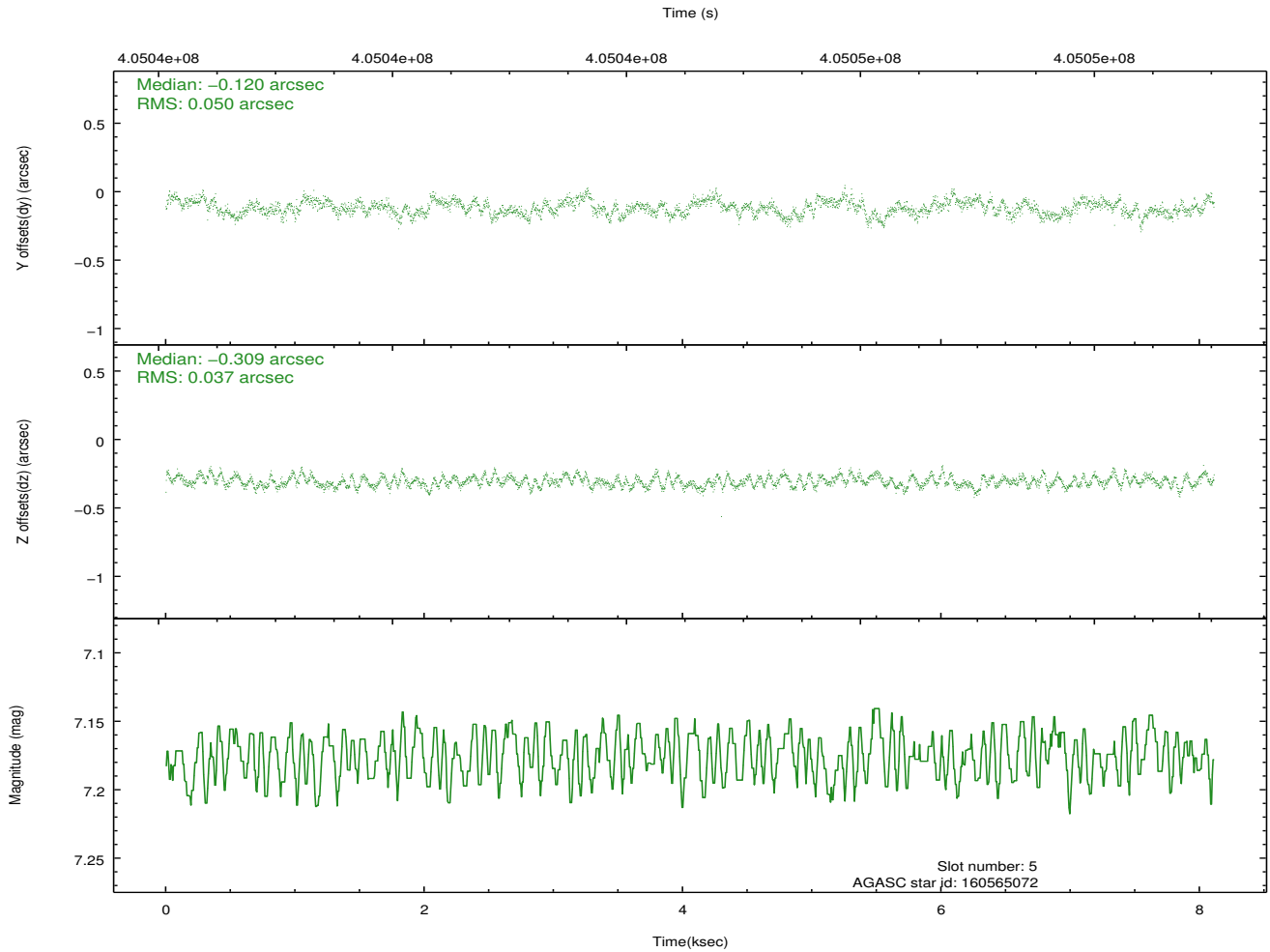
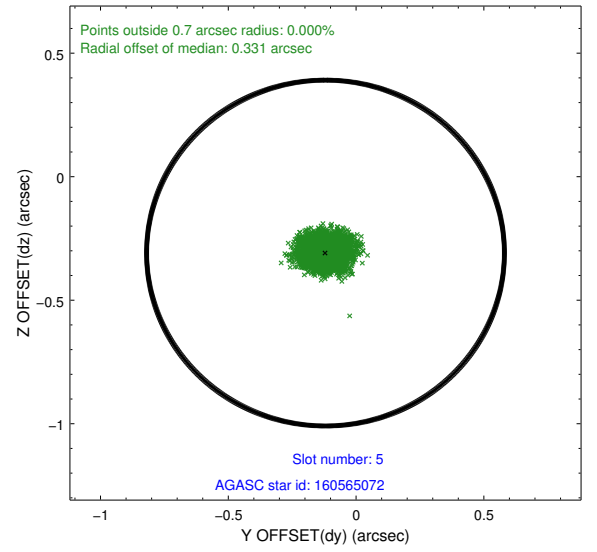
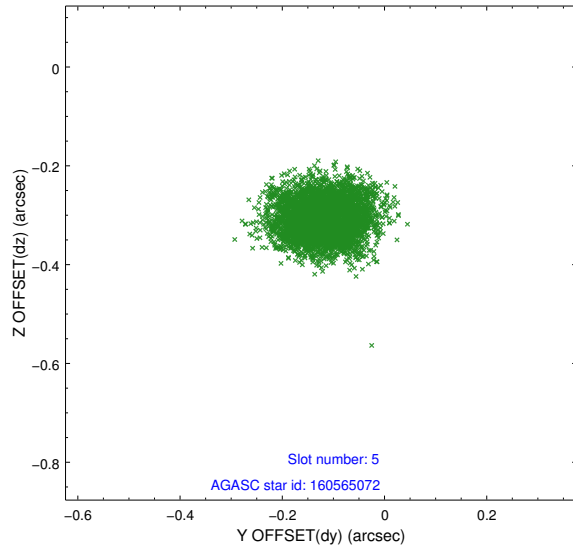
### 2.4.1 Slot 3



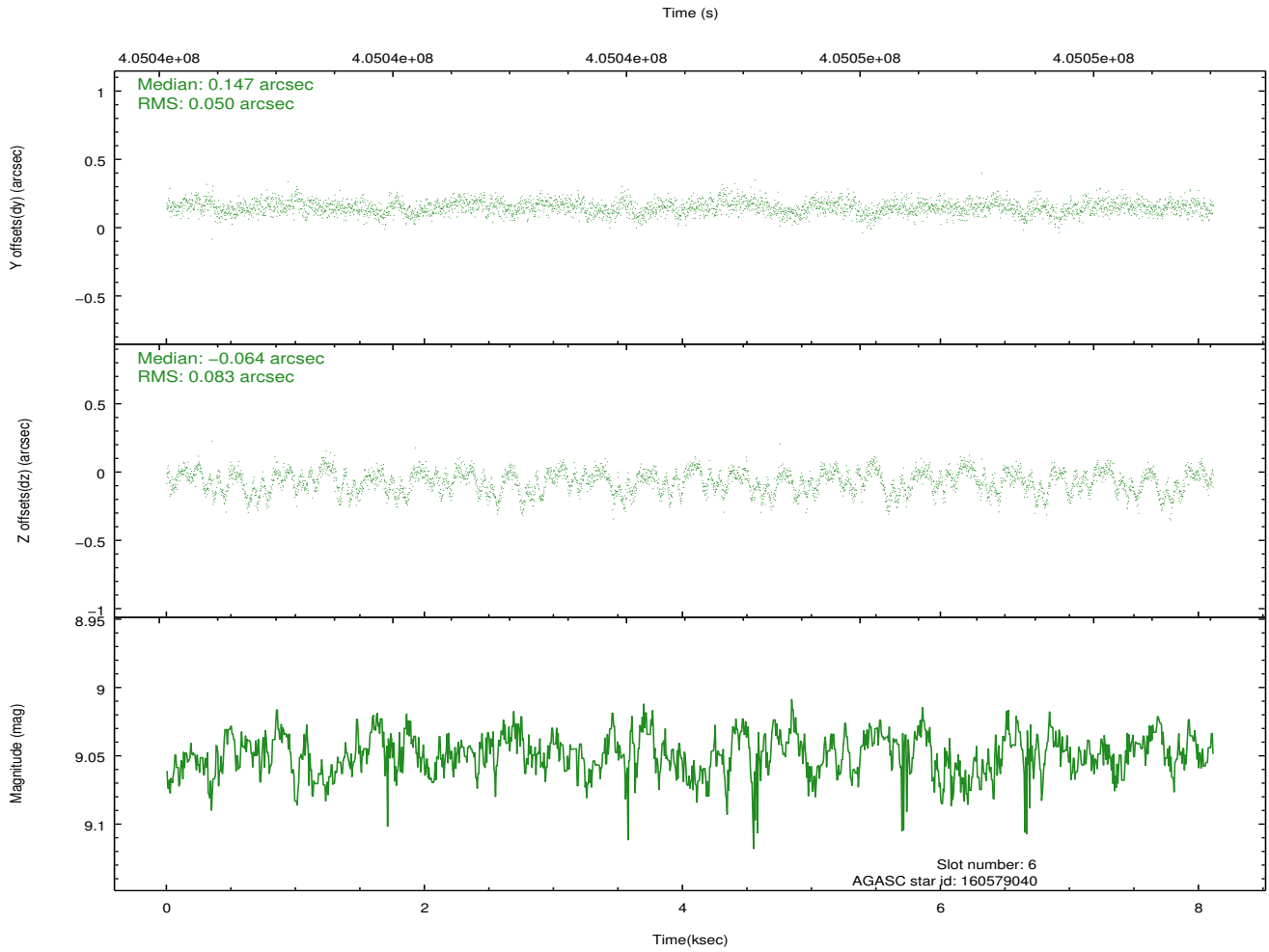
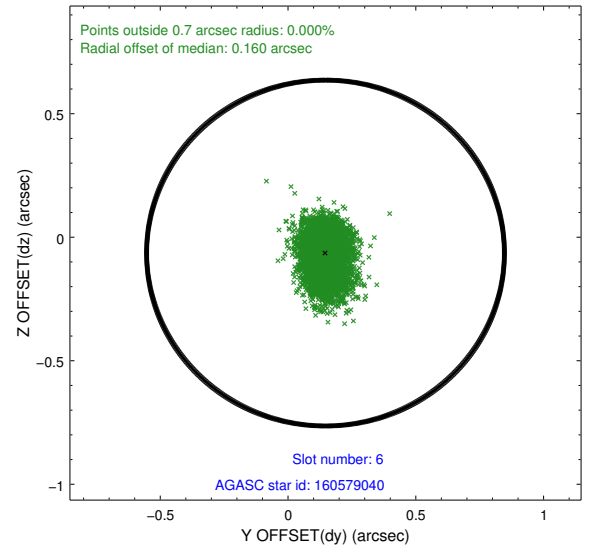
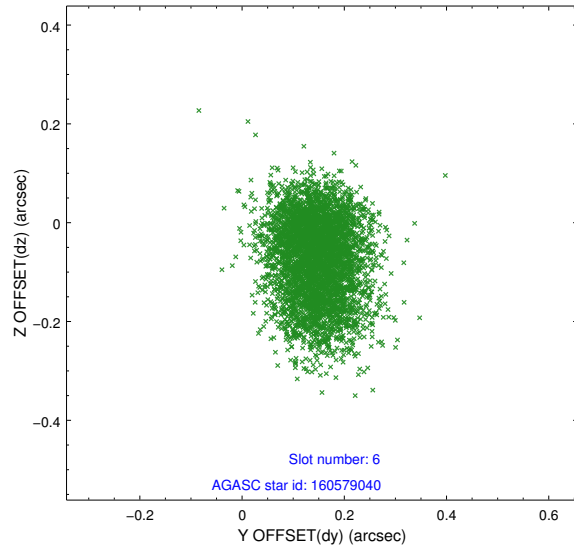
## 2.4.2 Slot 4



### 2.4.3 Slot 5

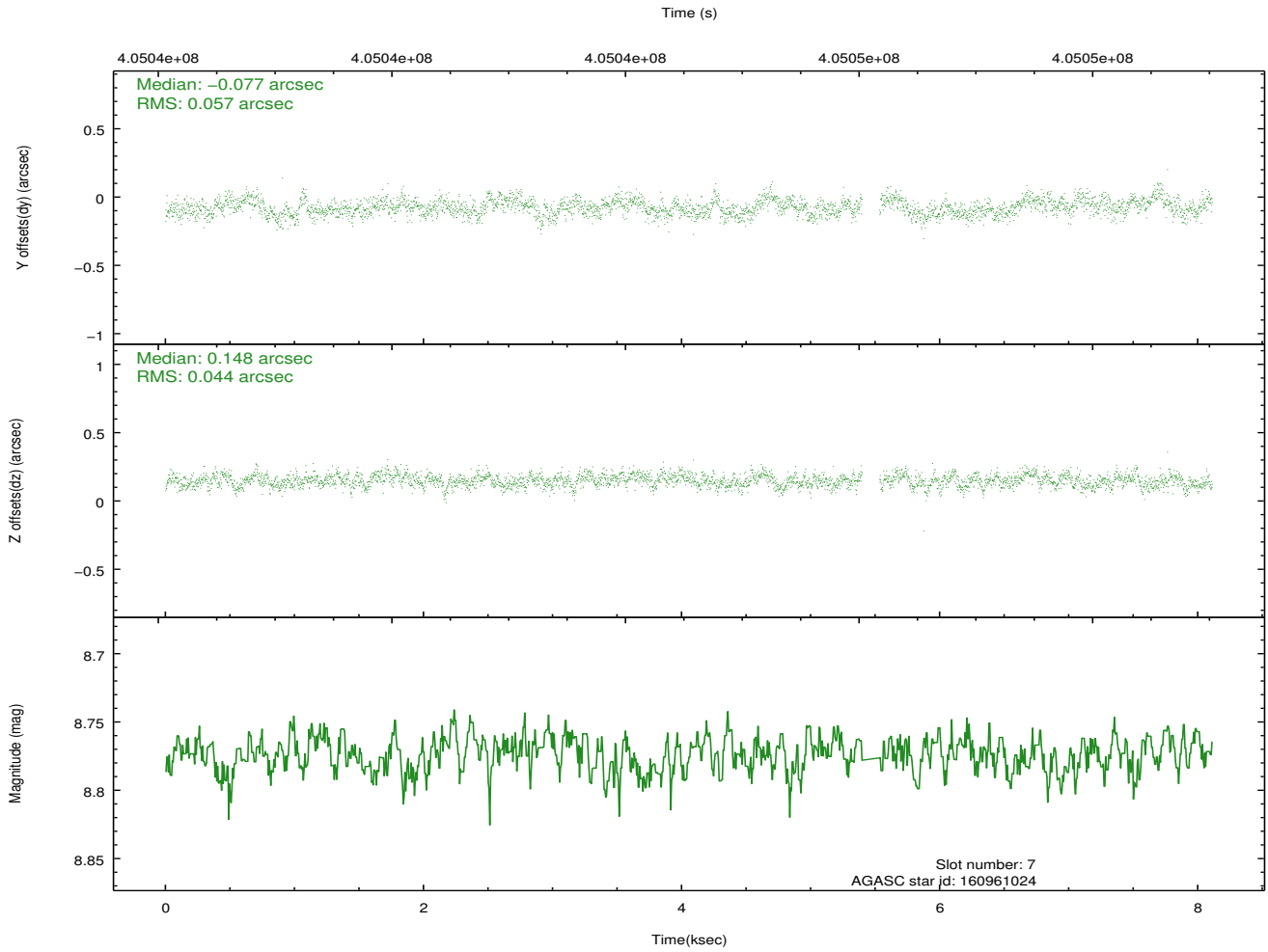
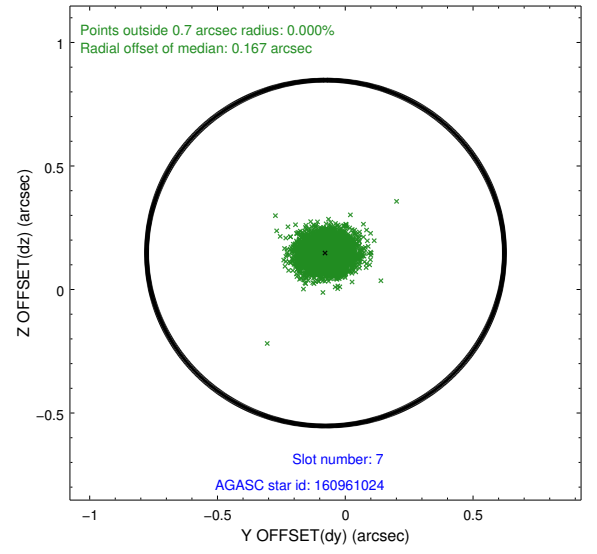
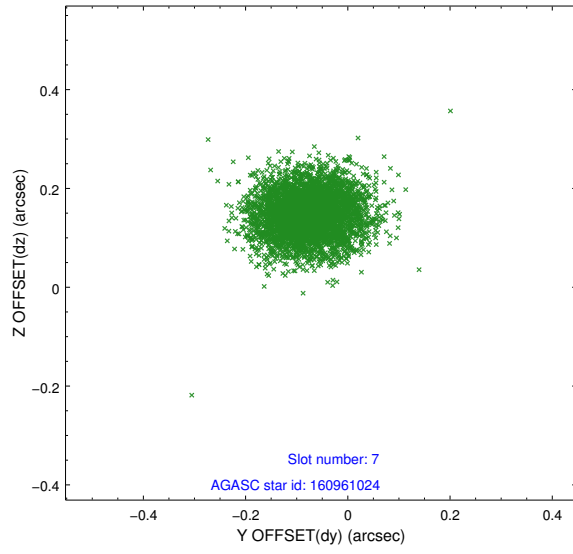


## 2.4.4 Slot 6



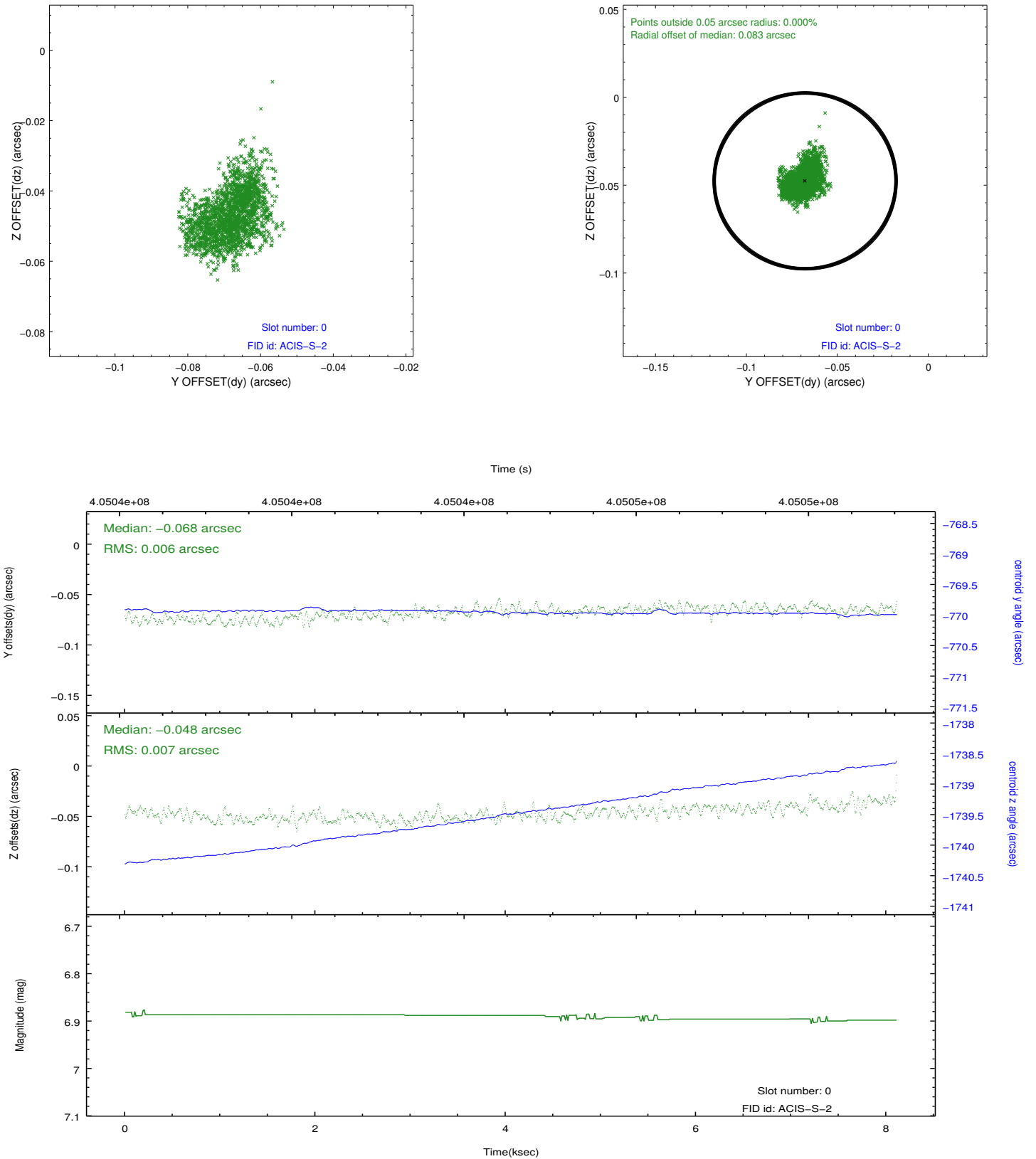


### 2.4.5 Slot 7

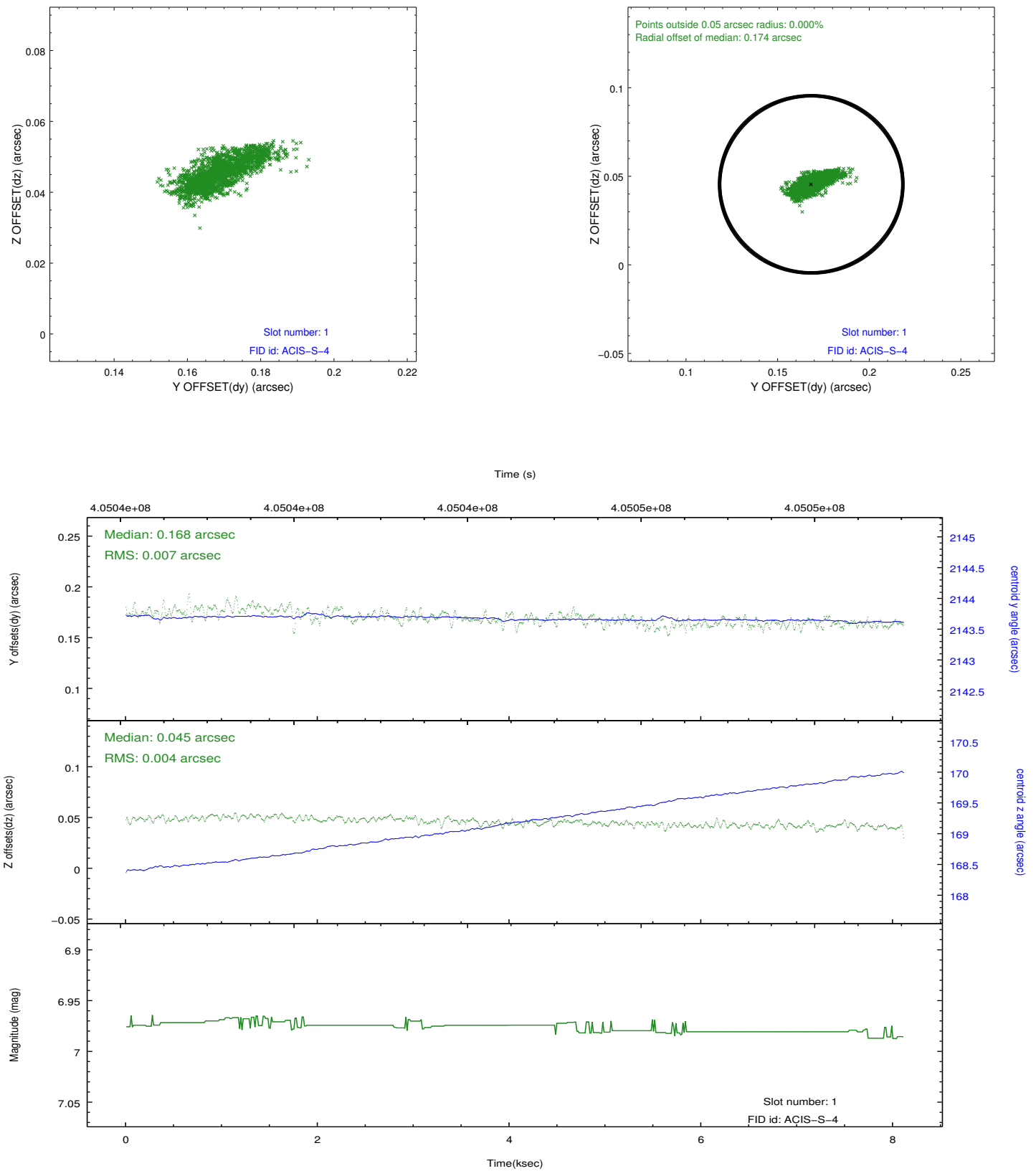


## 2.5 FID Slots

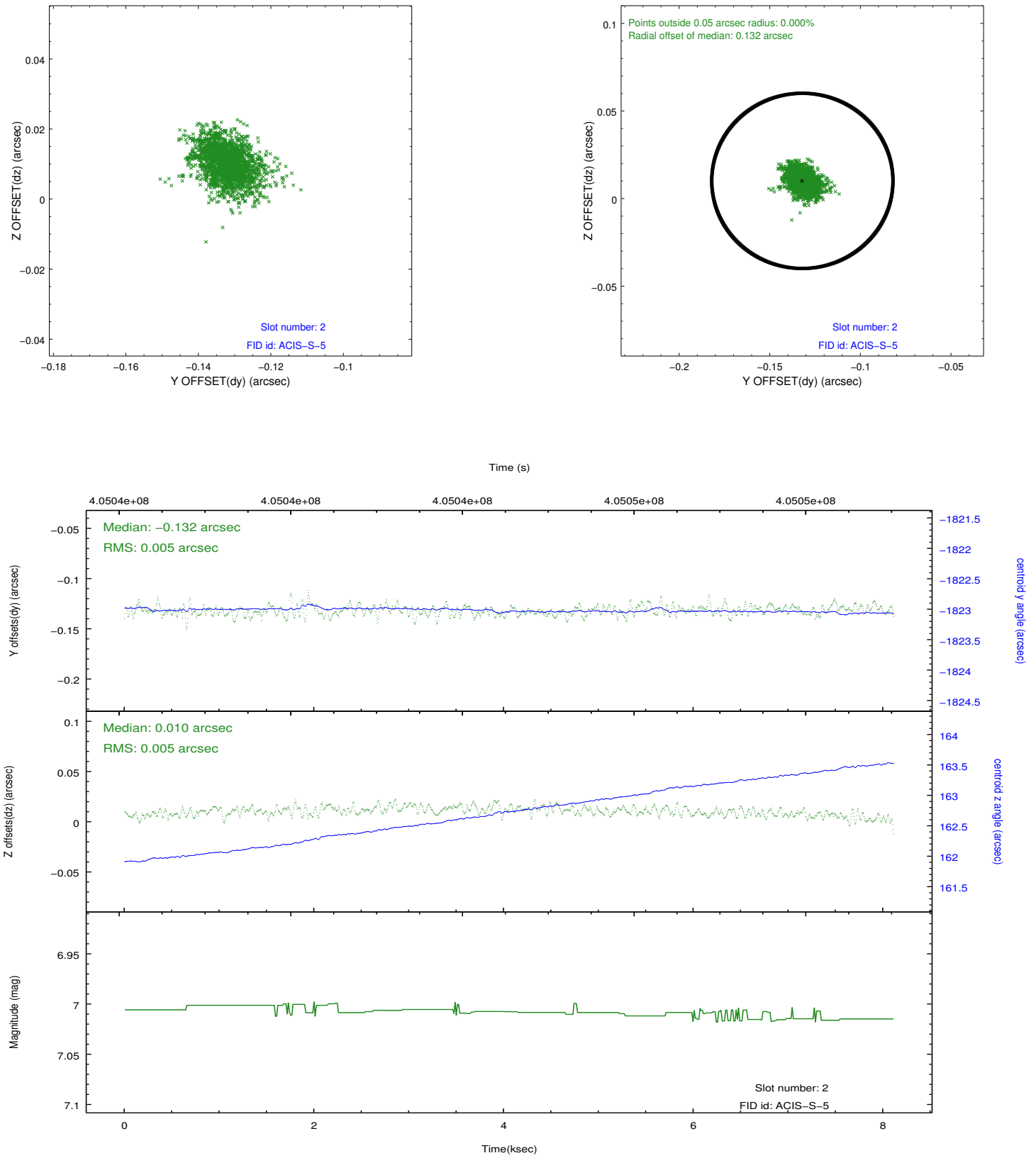
### 2.5.1 Slot 0



## 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)	2012.07.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.7903000599146

### A.2 Comments