

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9161 - L2 Version 2  
Chandra X-Ray Center

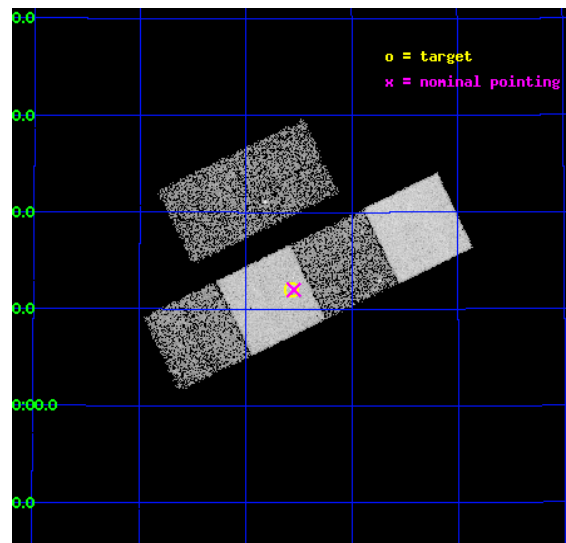
L2 Processing Date : May 12 2012

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# 1 Front

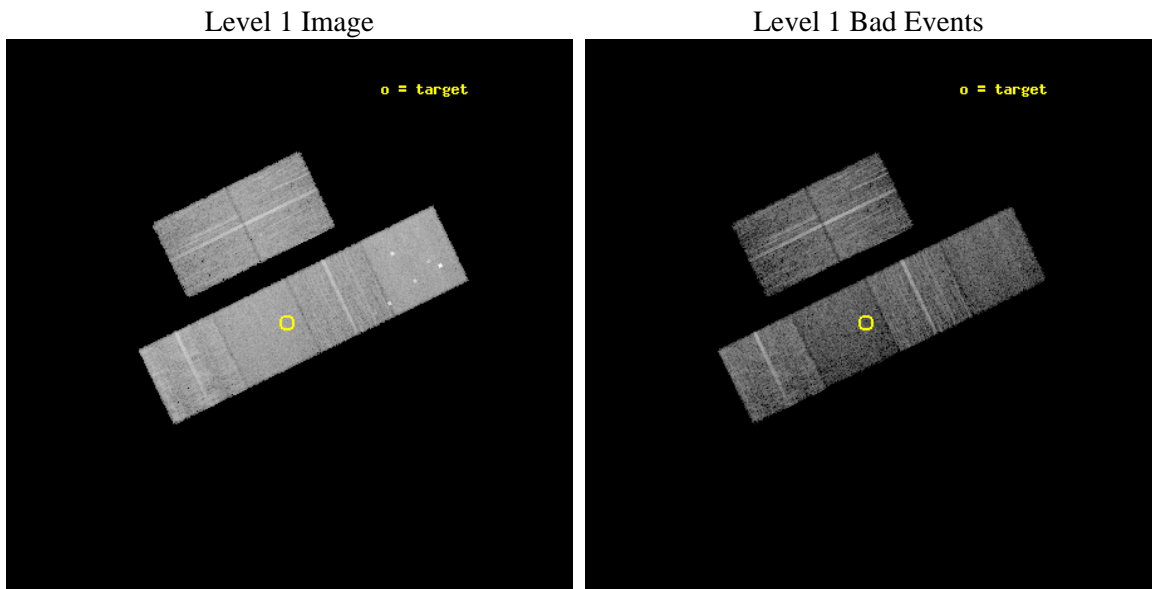
seq_num	701603	Sequence number
obs_id	9161	Observation id
title	Chandra ACIS Snapshots of the Brightest Radio-Loud Broad Absorption Line Quasars in the SDSS	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J141334.38+421201.7	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	213.393333	Observer's specified target RA [deg]
dec_targ	42.2005	Observer's specified target Dec [deg]
ra_nom	213.38675565914	Nominal RA [deg]
dec_nom	42.199992429937	Nominal Dec [deg]
roll_nom	154.13860624376	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7042.4015935659	Sum of GTIs [s]
livetime	6953.2264641631	Livetime [s]
ontime2	7039.2016032338	Sum of GTIs [s]
ontime3	7039.0374433398	Sum of GTIs [s]
ontime5	7042.3605535626	Sum of GTIs [s]
ontime6	7039.0784932375	Sum of GTIs [s]
ontime7	7042.4015935659	Sum of GTIs [s]
ontime8	7042.2374335527	Sum of GTIs [s]
l2events	83249	Number of level 2 events



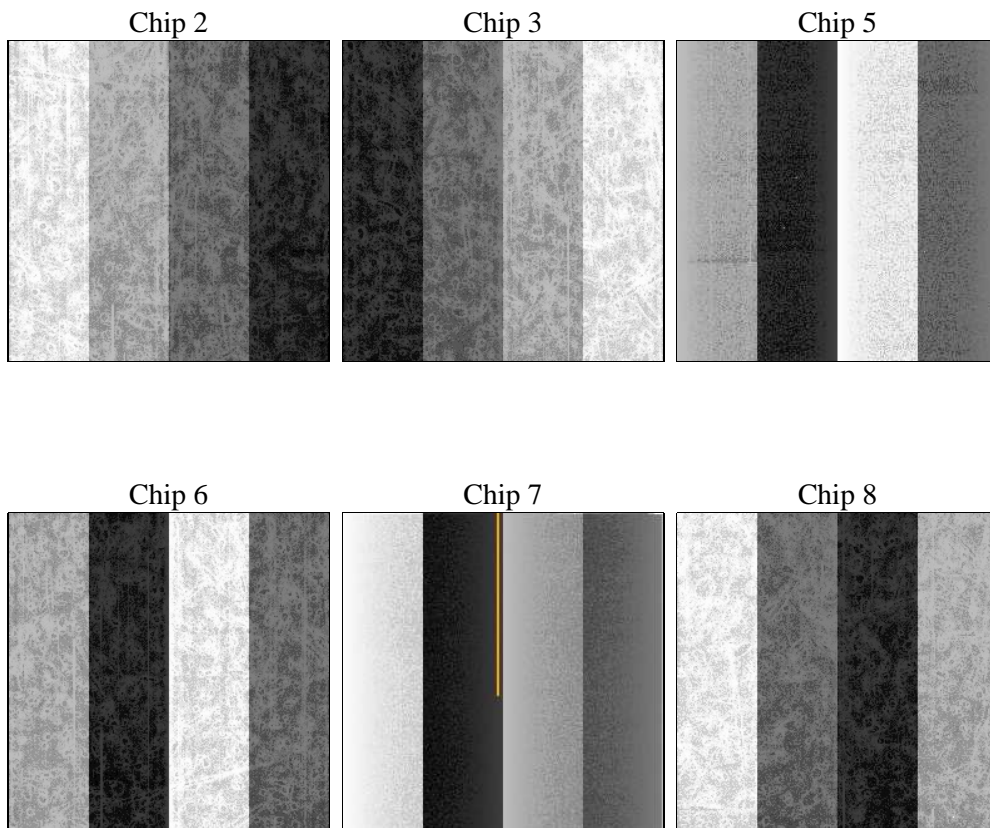
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	7042.4015935659	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	7039.2016032338	Sum of GTIs [s]
date	2012-05-12T13:14:08	Date and time of file creation	ontime3	7039.0374433398	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	7042.3605535626	Sum of GTIs [s]
			ontime6	7039.0784932375	Sum of GTIs [s]
			ontime7	7042.4015935659	Sum of GTIs [s]
			ontime8	7042.2374335527	Sum of GTIs [s]
			l1events	388930	Number of level 1 events

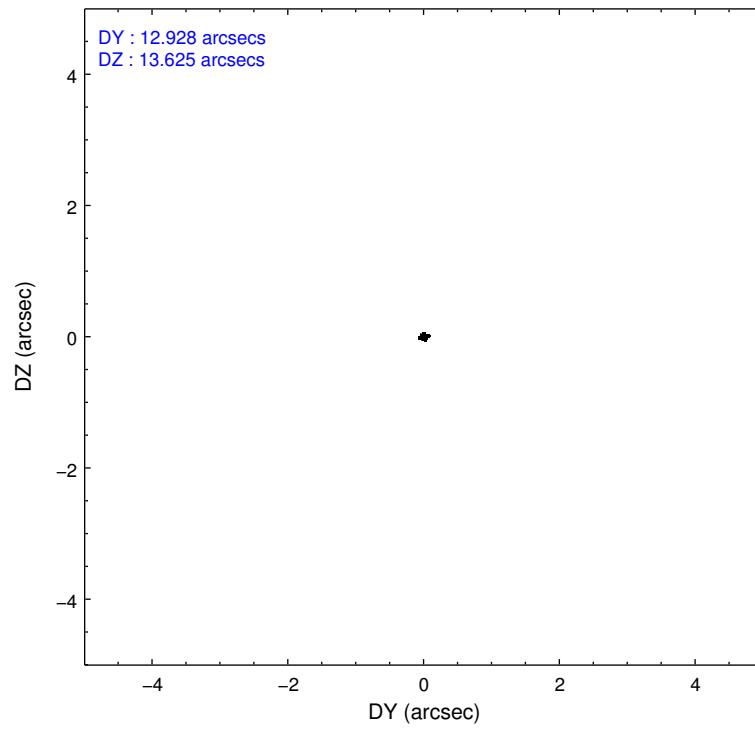
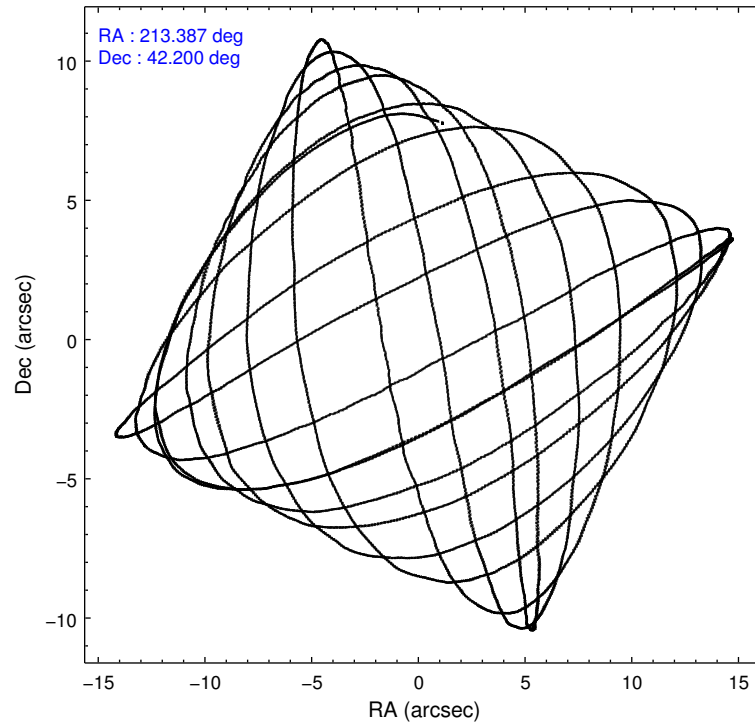
### 2.1.4 Events

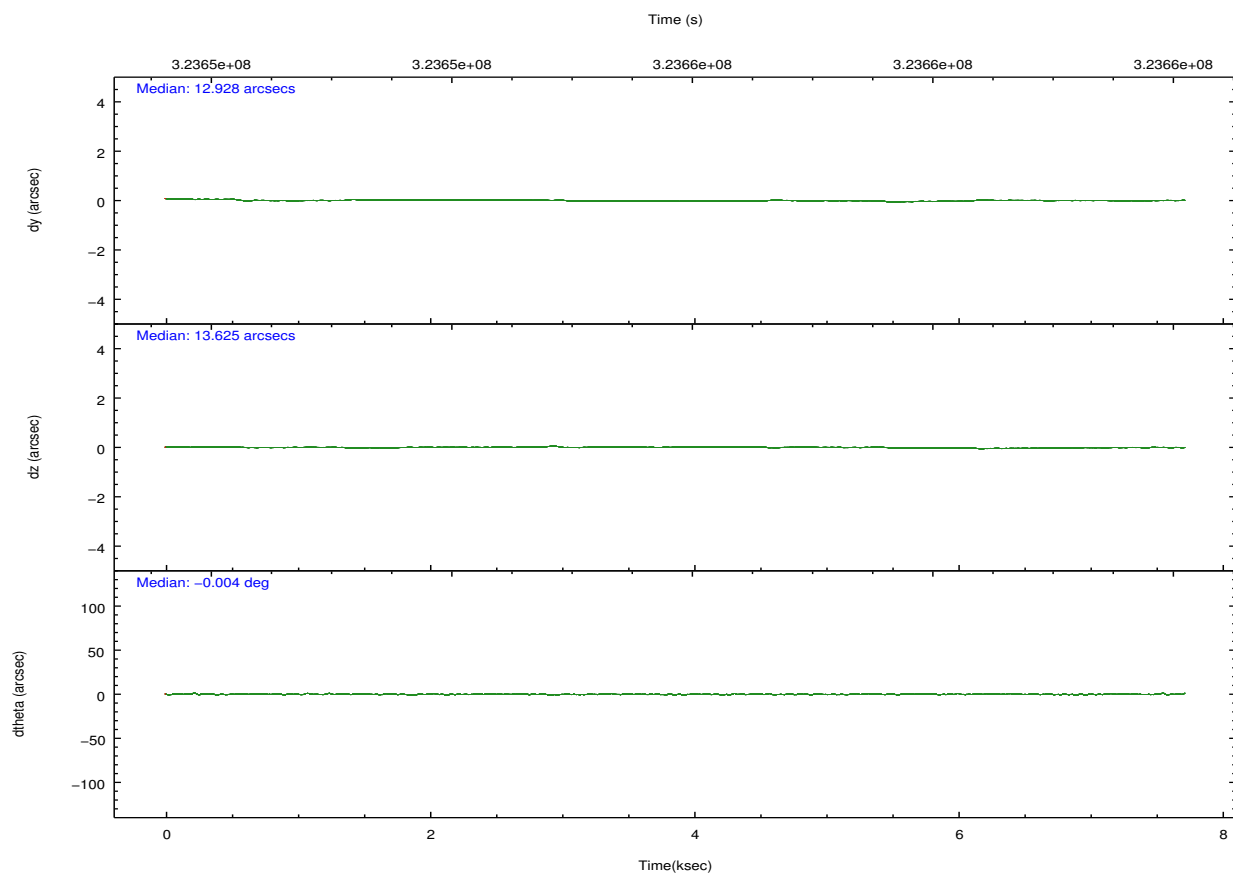
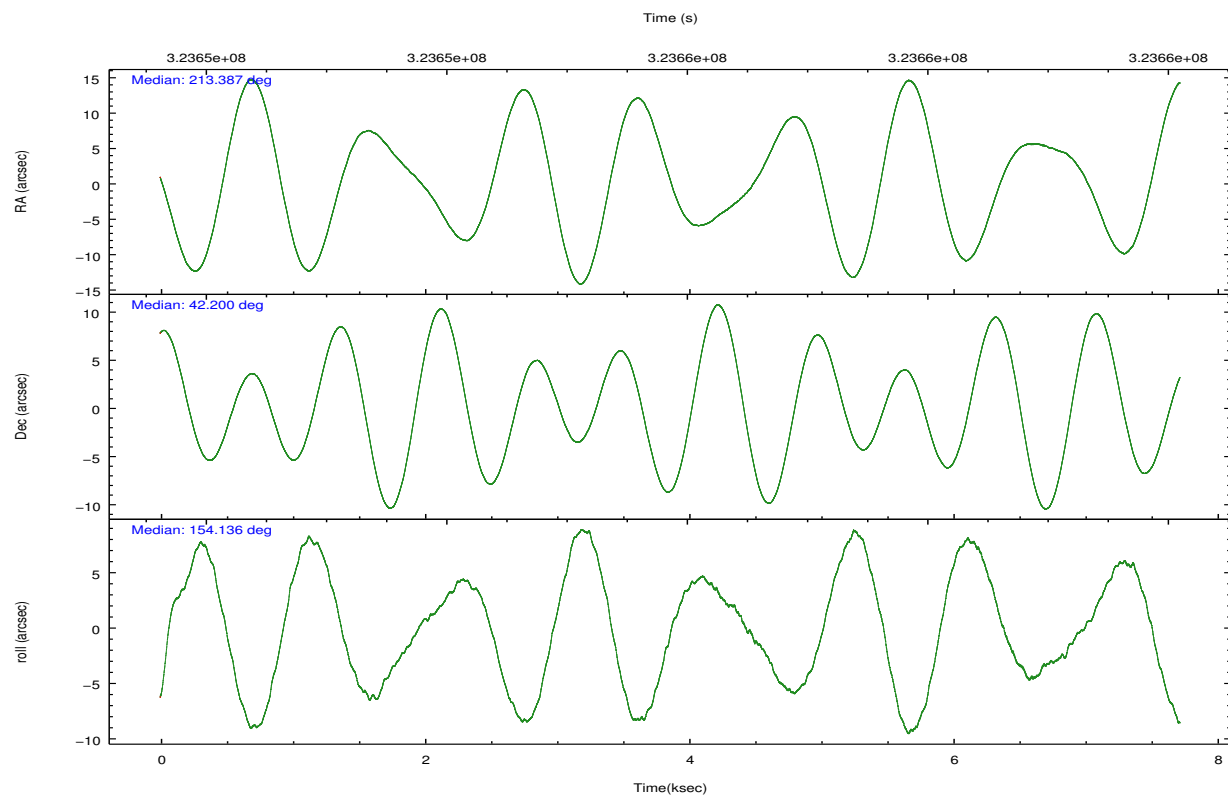
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	63205	53022	80708	58258	63222	70515	grade 0 events	1960	1813	5865	2068	2677	4950
rejected events	57709	47956	39217	52416	34571	54117		3%	3%	7%	3%	4%	7%
rejected %	91%	90%	48%	89%	54%	76%	grade 1 events	30	25	224	31	72	57
								0%	0%	0%	0%	0%	0%
							grade 2 events	1294	1039	12279	1270	5659	3681
								2%	1%	15%	2%	8%	5%
							grade 3 events	578	614	1438	594	2577	1880
								0%	1%	1%	1%	4%	2%
							grade 4 events	554	605	1588	639	2447	1601
								0%	1%	1%	1%	3%	2%
							grade 5 events	1872	2243	5739	2221	6473	3302
								2%	4%	7%	3%	10%	4%
							grade 6 events	1113	996	20343	1272	15308	4289
								1%	1%	25%	2%	24%	6%
							grade 7 events	55804	45687	33232	50163	28009	50755
								88%	86%	41%	86%	44%	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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	213.423595	213.3867556591385	CCD I2 on	O1	Y
[deg] Pointing Dec	42.202348	42.19999242993702	CCD I3 on	O2	Y
[deg] Pointing Roll	153.957237	154.1386062437606	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[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	Y	Y
[s] Observation start time (MET)	323652709.184000	323651435.49702	CCD S5 on	N	N
Observation start date	2008-04-03T23:30:44	2008-04-03T23:10:35	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	323659709.184000	323660041.39743	On-chip summing requested	N	N
Observation end date	2008-04-04T01:27:24	2008-04-04T01:34:01	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



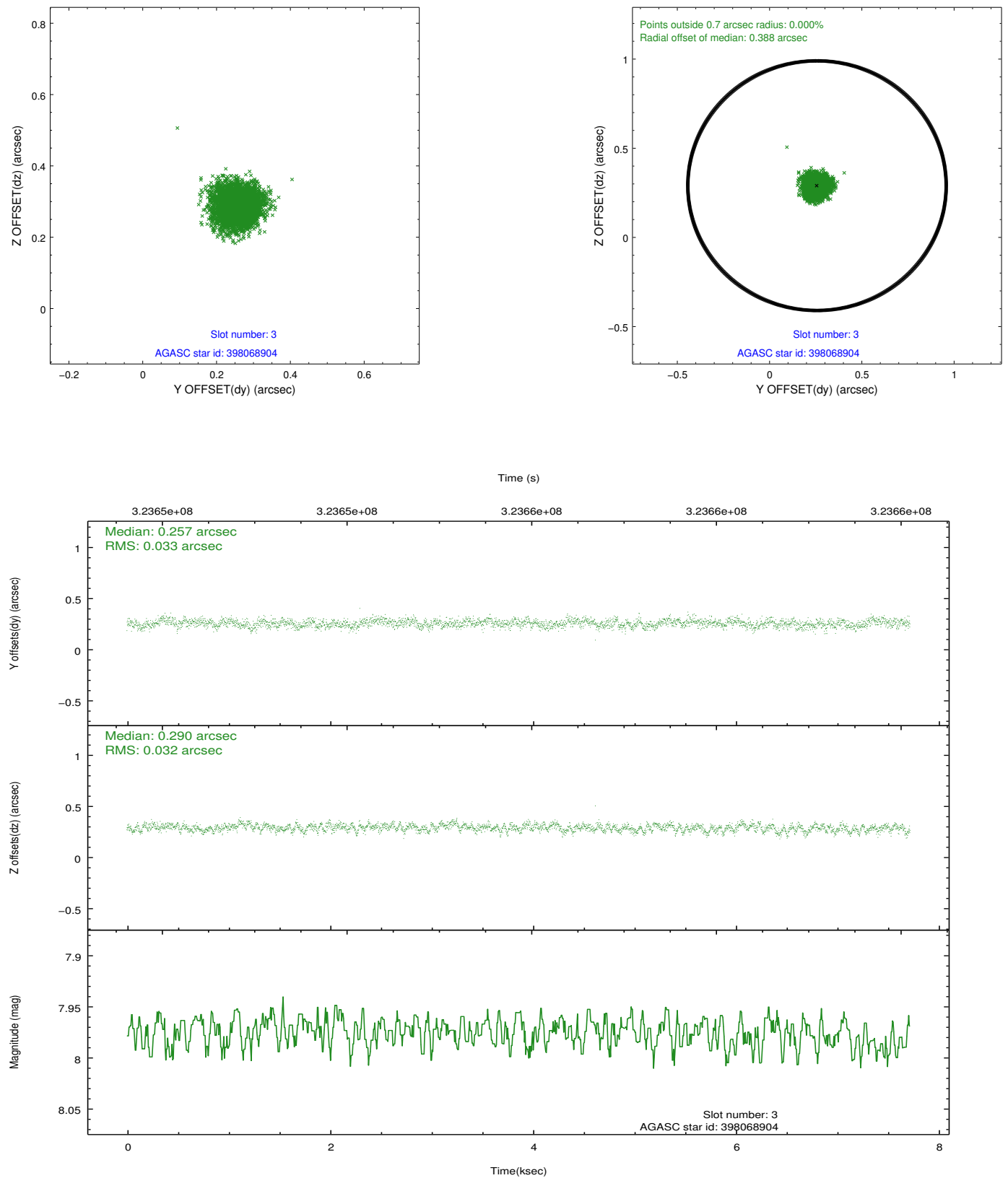


### Slot Statistics

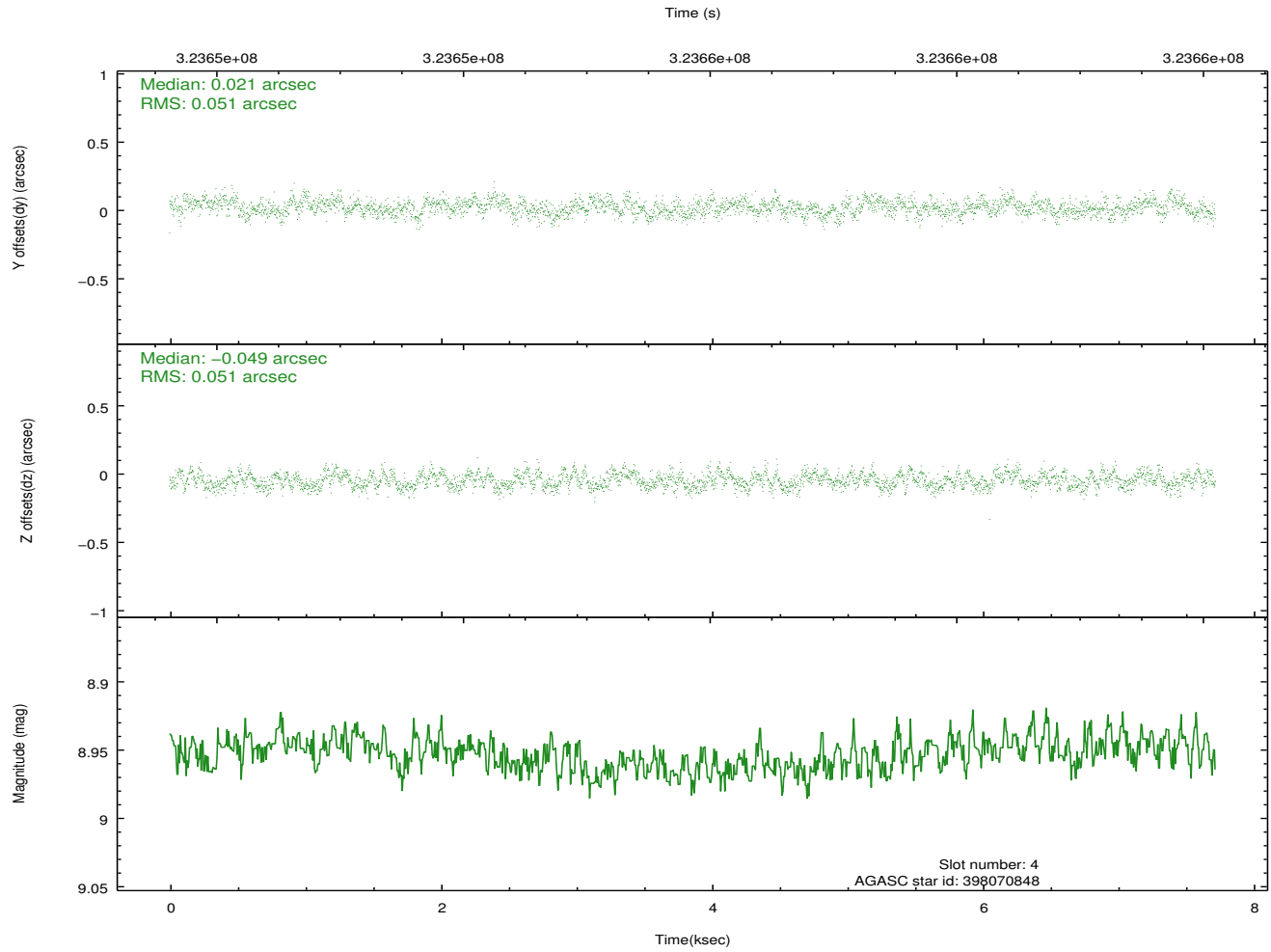
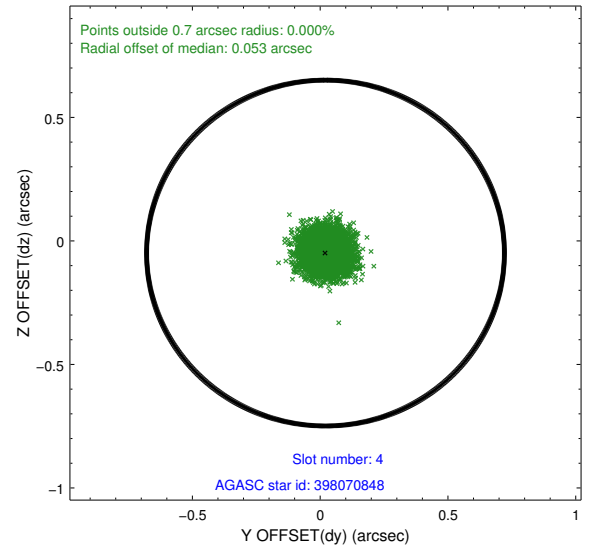
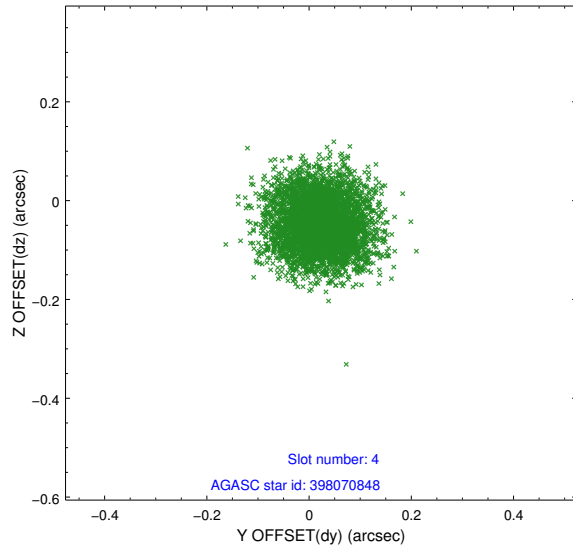
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1884	-0.036	-0.065	0.007	0.011	0.000000	0.000000	-765.88	-1734.98
1	FID	ACIS-S-4	7.19	1884	0.161	0.035	0.005	0.011	0.000000	0.000000	2147.26	172.85
2	FID	ACIS-S-5	7.23	1884	-0.156	0.038	0.006	0.011	0.000000	0.000000	-1817.90	167.35
3	GUIDE	398068904	7.97	3767	0.257	0.290	0.049	0.078	213.040633	42.411921	1247.06	-232.54
4	GUIDE	398070848	8.95	3761	0.021	-0.049	0.078	0.122	212.718398	42.166740	1638.42	934.46
5	GUIDE	398071224	6.80	3767	-0.081	-0.286	0.053	0.088	212.904534	42.340724	1462.18	155.24
6	GUIDE	398203384	8.61	3767	-0.068	0.066	0.067	0.110	214.300226	42.208206	-2085.11	-1055.89
7	GUIDE	398203816	8.54	3764	-0.128	-0.022	0.069	0.113	213.906992	41.460247	-2344.03	1824.40

## 2.4 Star Slots

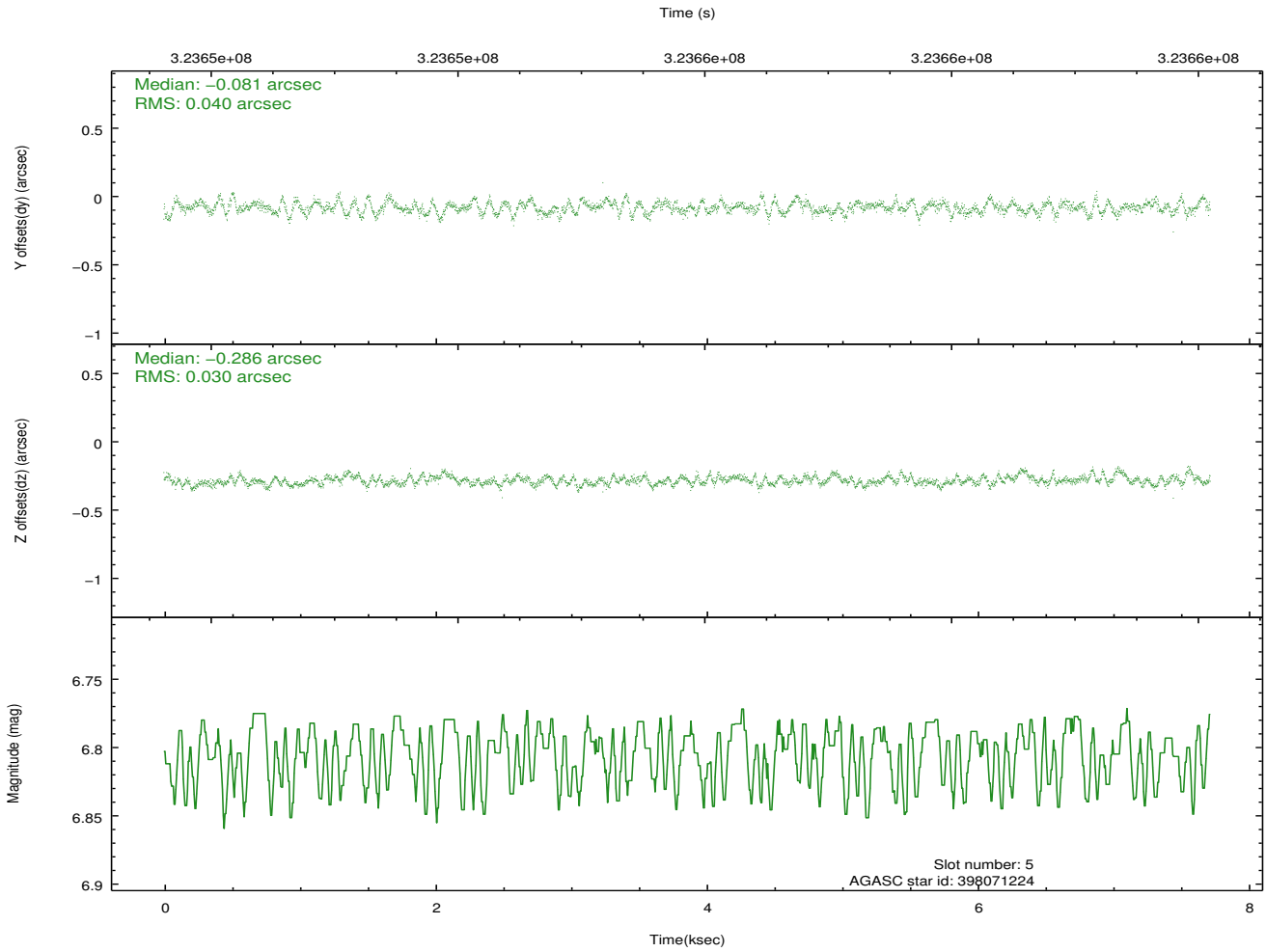
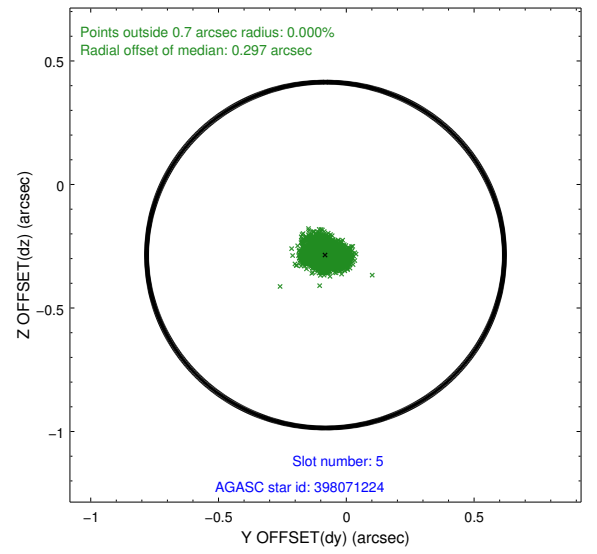
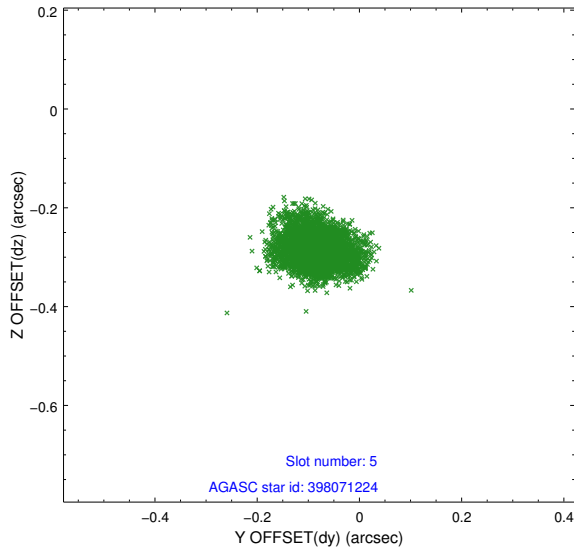
### 2.4.1 Slot 3



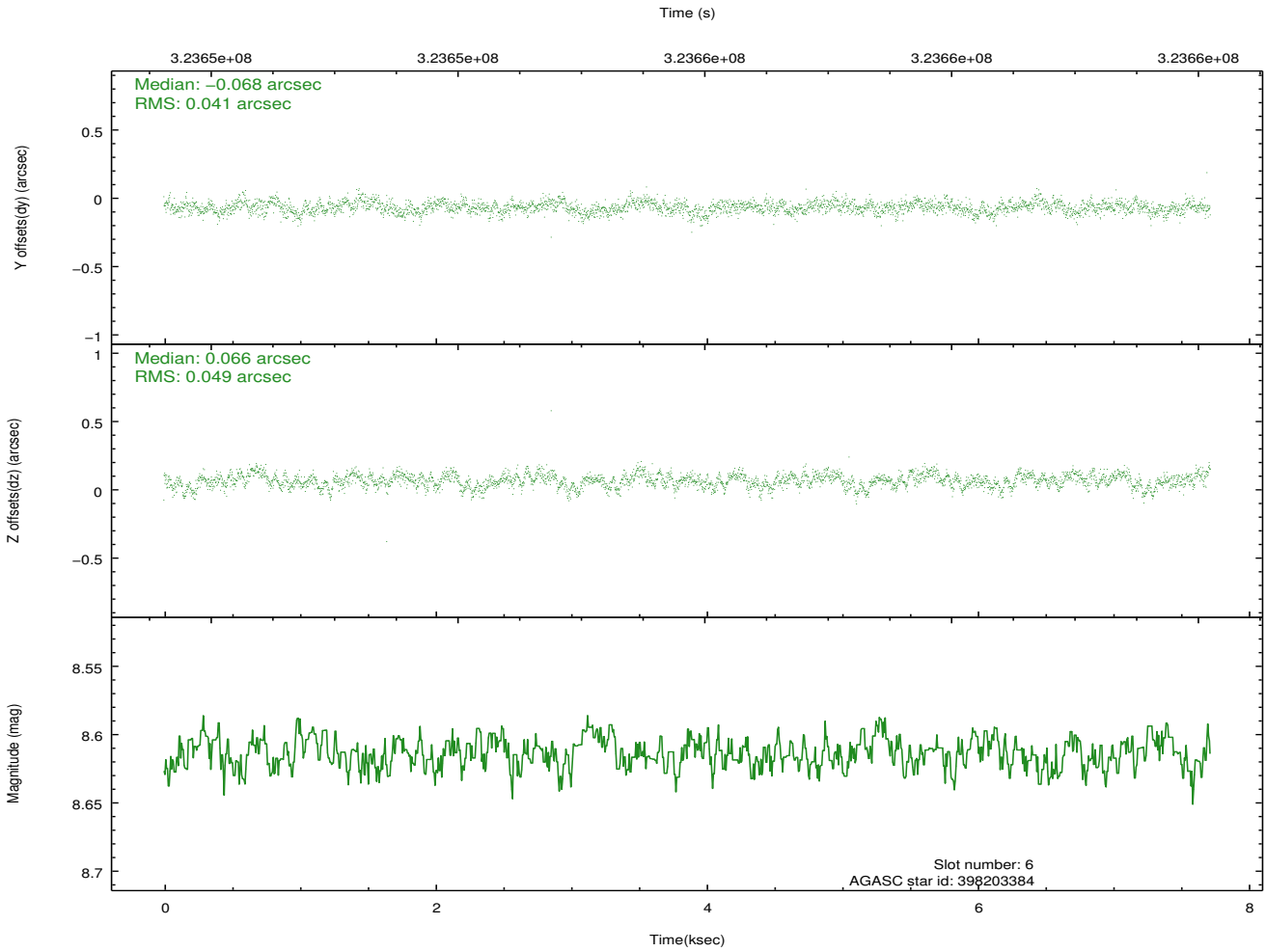
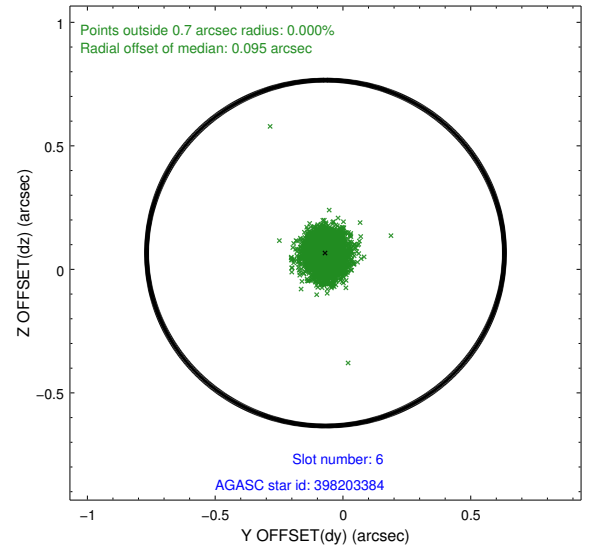
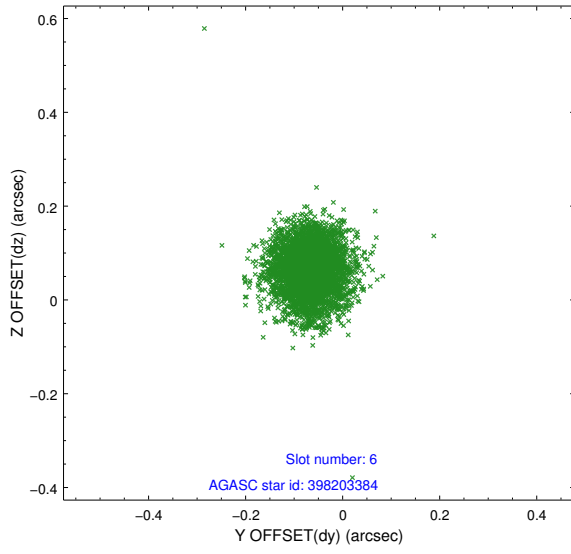
## 2.4.2 Slot 4



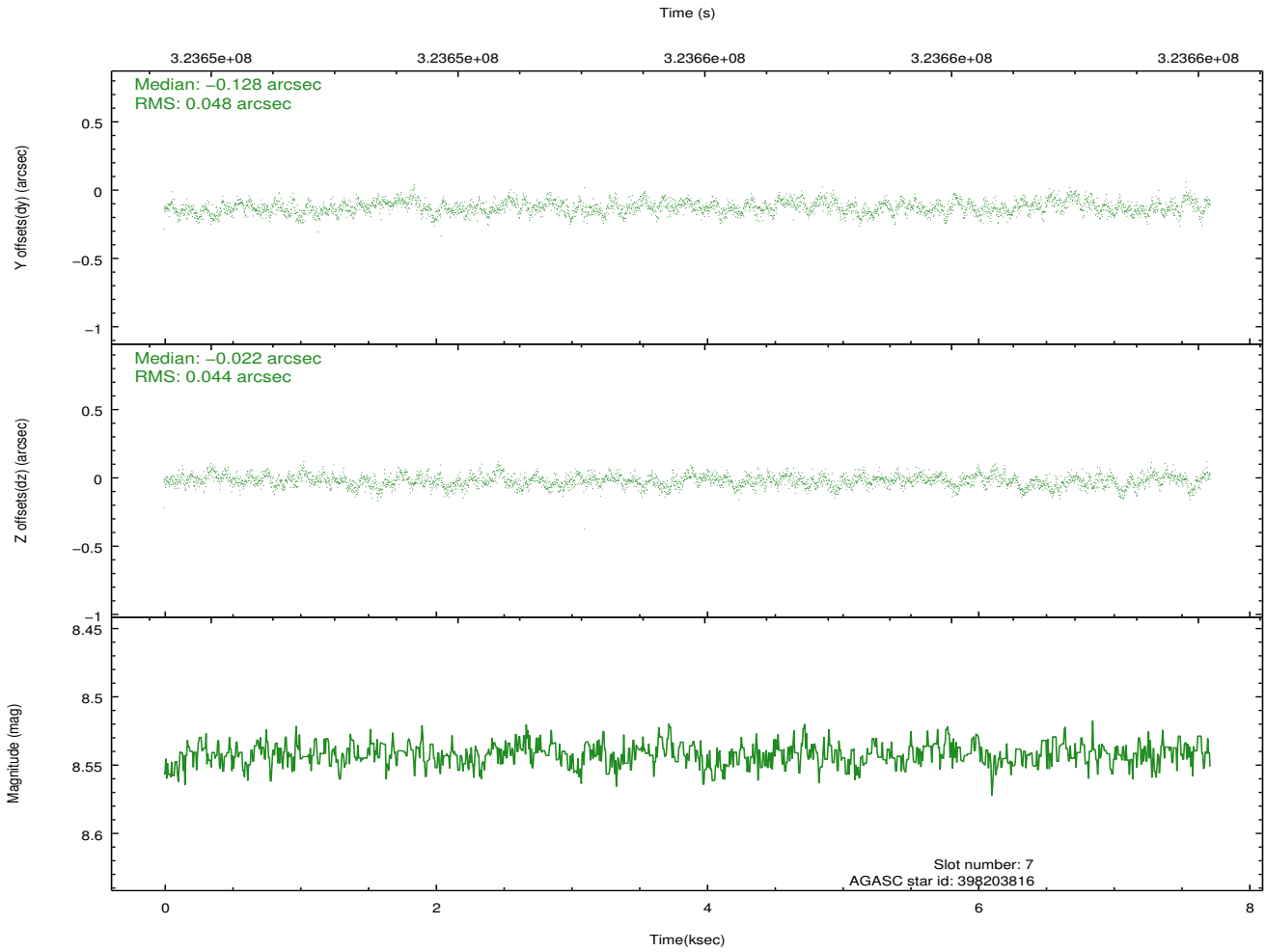
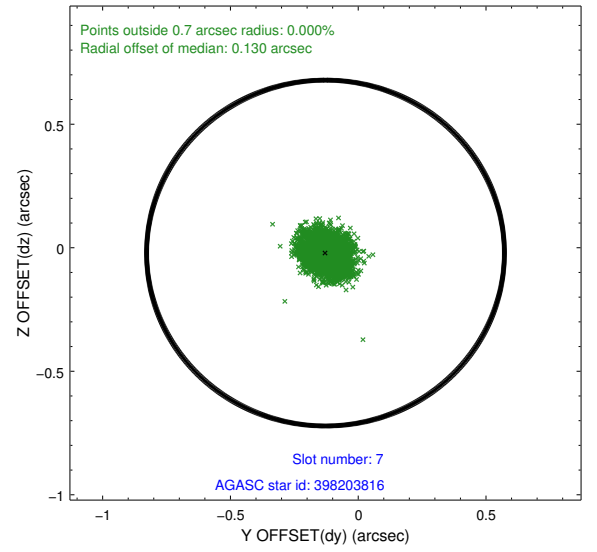
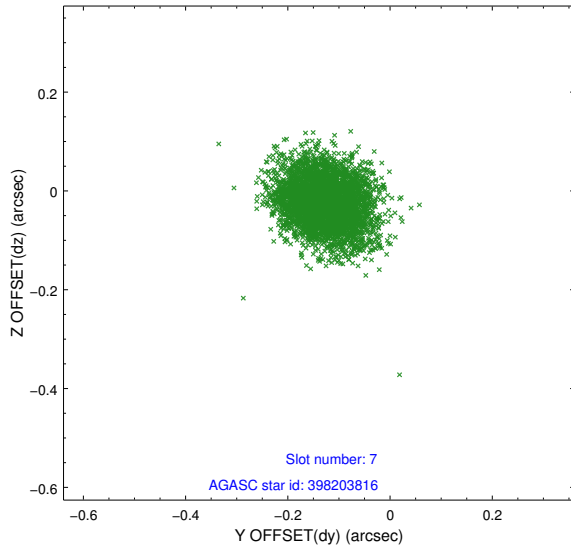
### 2.4.3 Slot 5



## 2.4.4 Slot 6

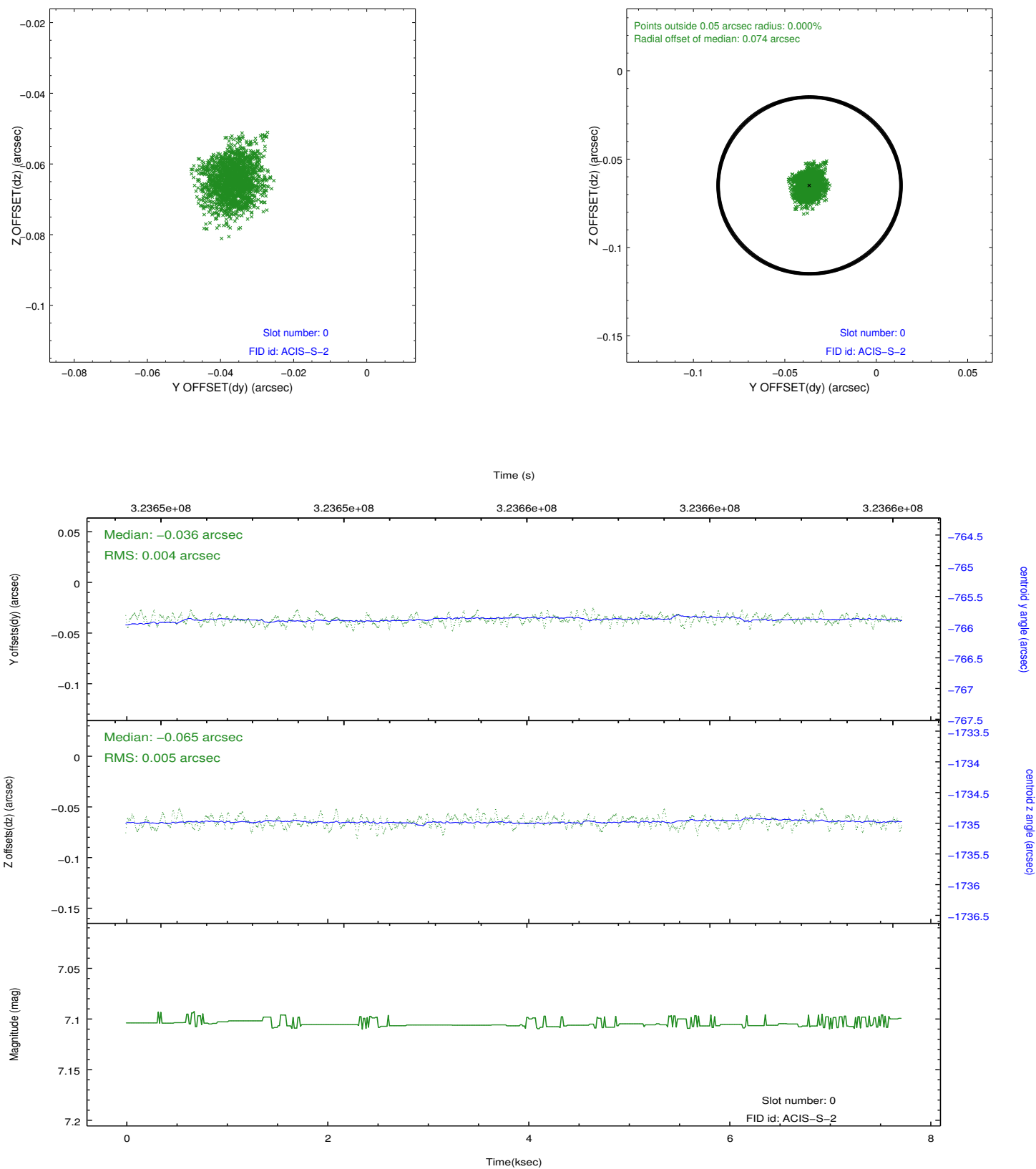


## 2.4.5 Slot 7

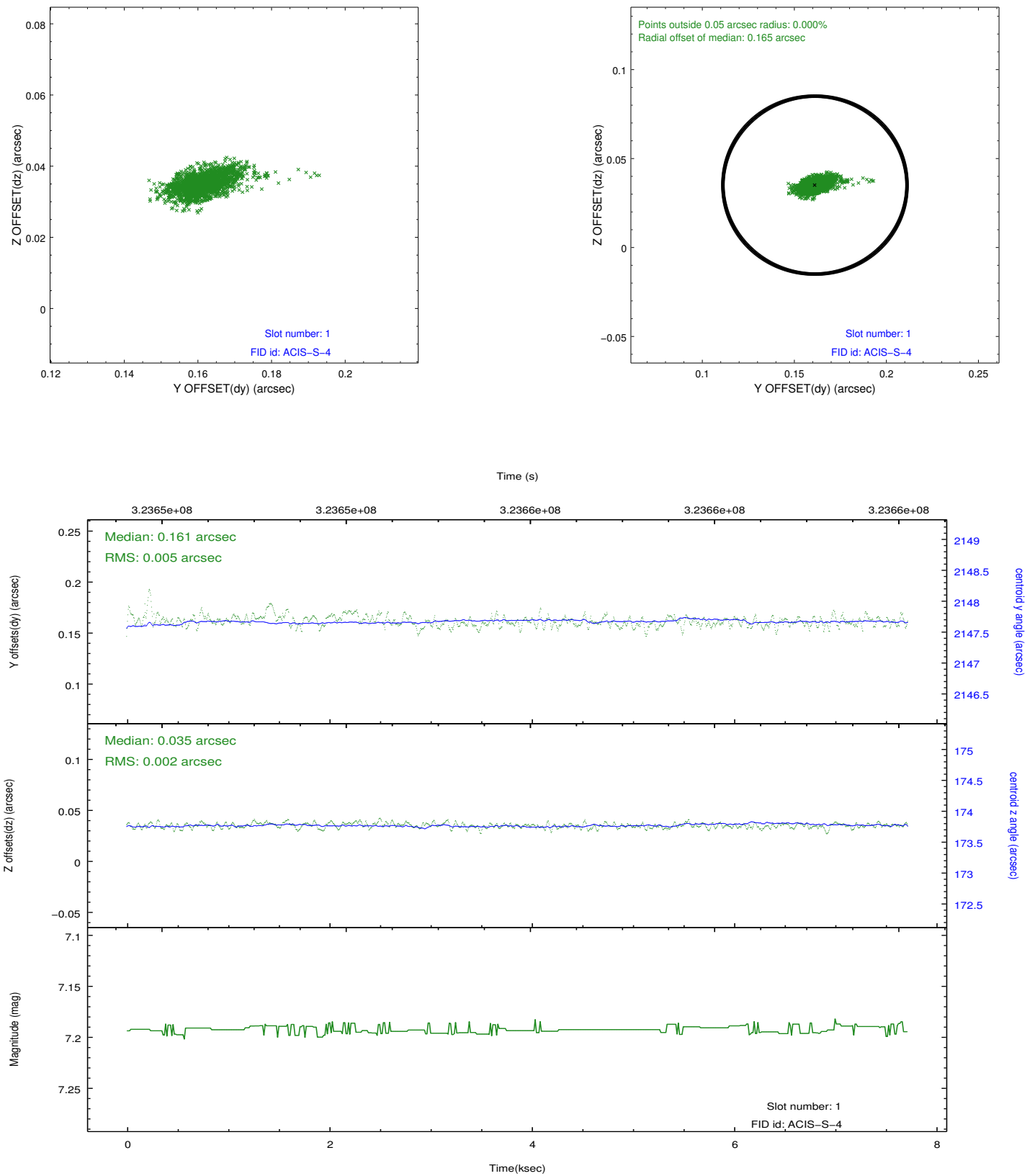


## 2.5 FID Slots

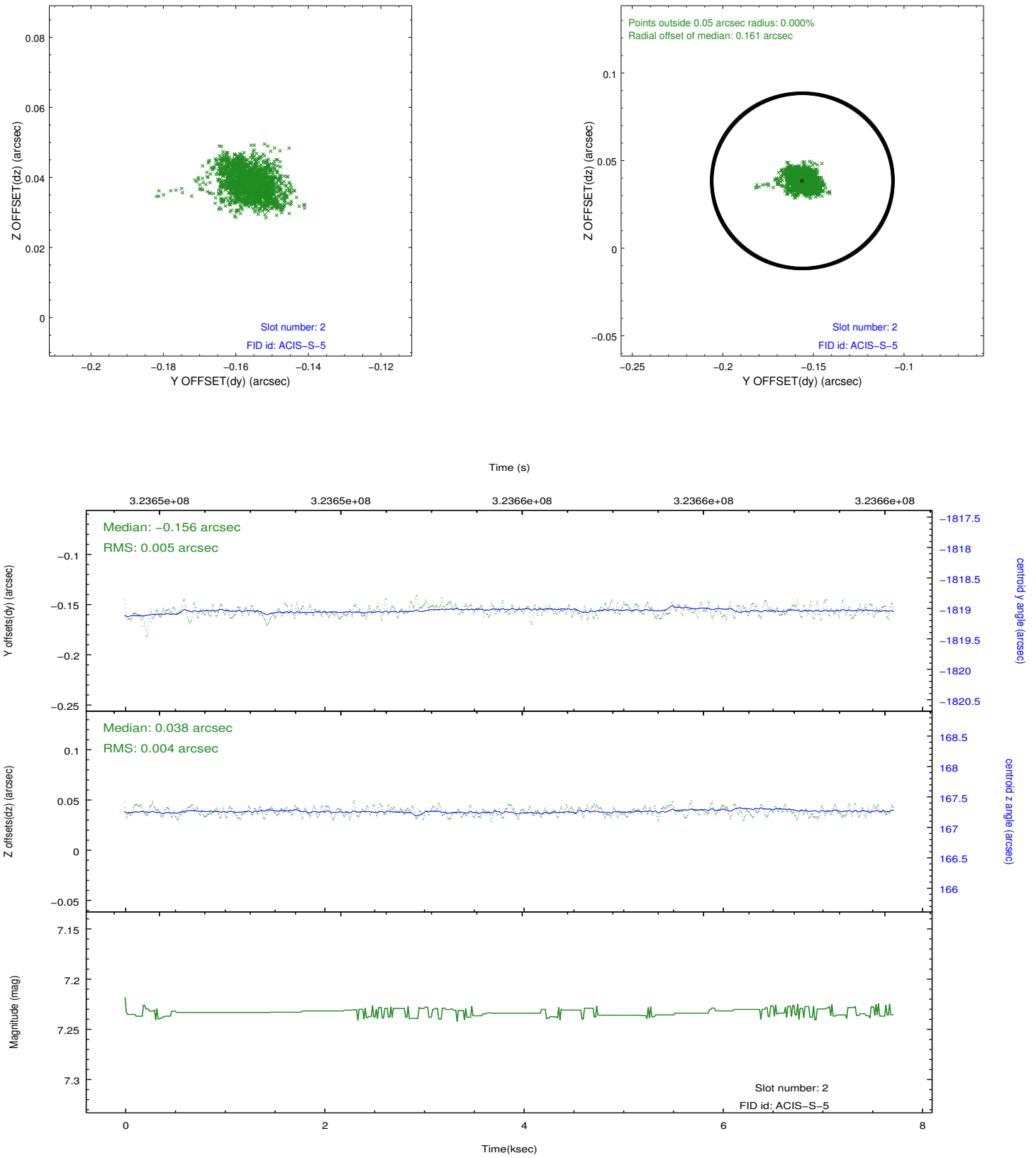
### 2.5.1 Slot 0



## 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)	2012.05.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.04319997

### A.2 Comments