

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 5742 - L2 Version 002
Chandra X-Ray Center

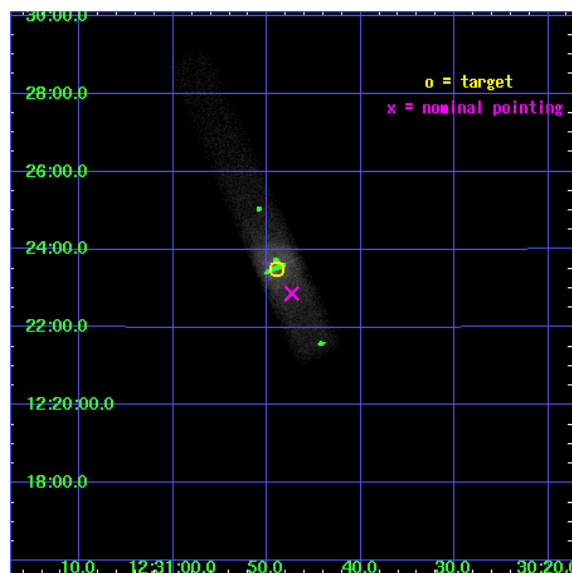
L2 Processing Date : Mar 10 2006

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1 Front

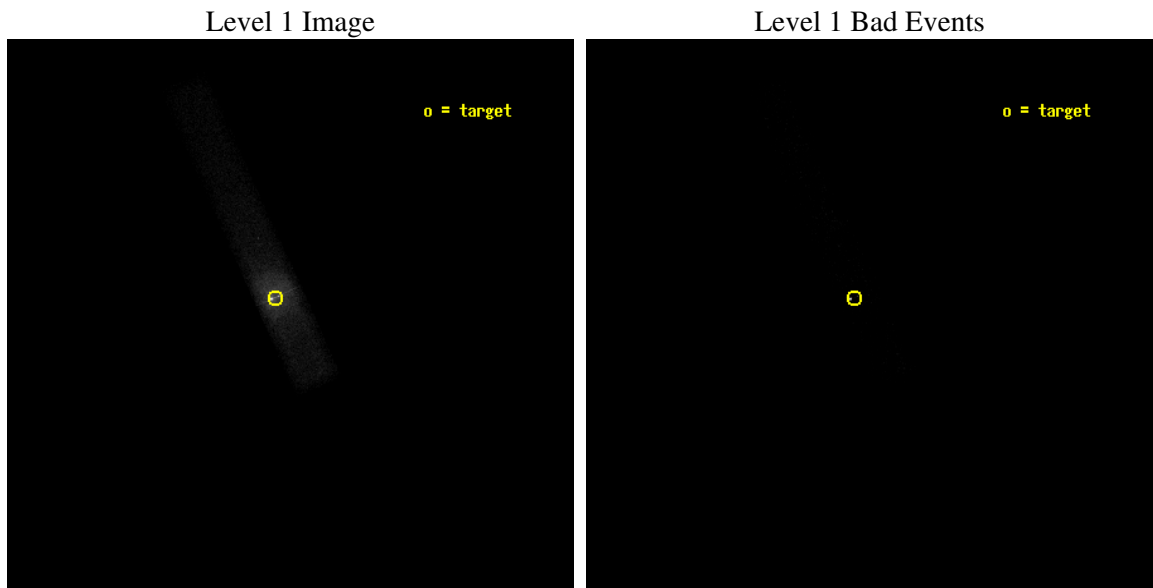
seq_num	701164
obs_id	5742
title	The X-ray Flares of Knot 'HST-1' in the M87 Jet (monitoring)
observer	Dr. John Biretta
object	M87
dtcycle	0
cycle	P
ra_targ	187.704167
dec_targ	12.391667
ra_nom	187.69736356058
dec_nom	12.381094961744
roll_nom	245.5949958815
revision	2
ontime	5185.6000772715
livetime	4703.0655516701
ontime7	5185.6000772715
l2events	59073



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-03-10T16:59:09
revision	2

sched_exp_time	5000.000000
ontime	6305.4789379835
ontime7	6305.4789379835
l1events	76353

2.1.4 Events

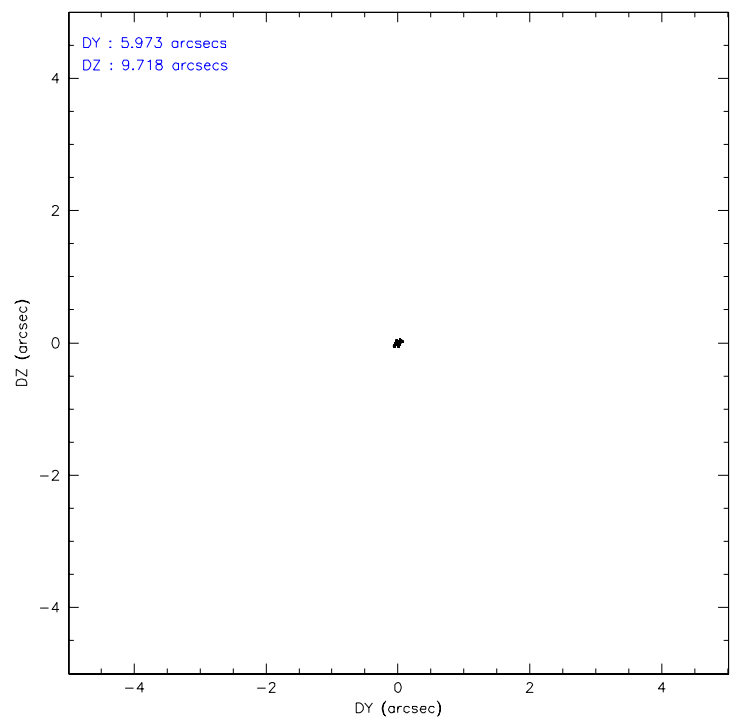
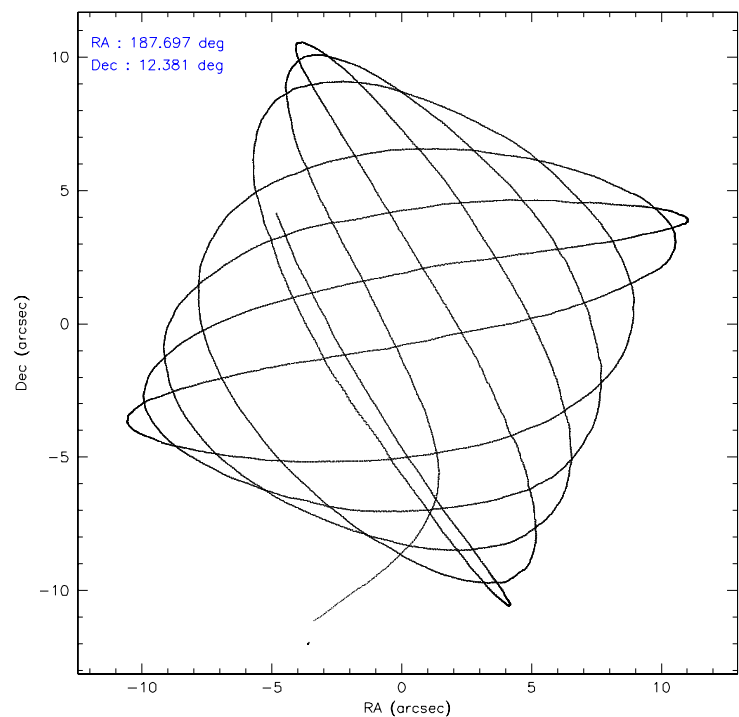
	ccd 7
level 1 events	76353
rejected events	16695
rejected %	21%

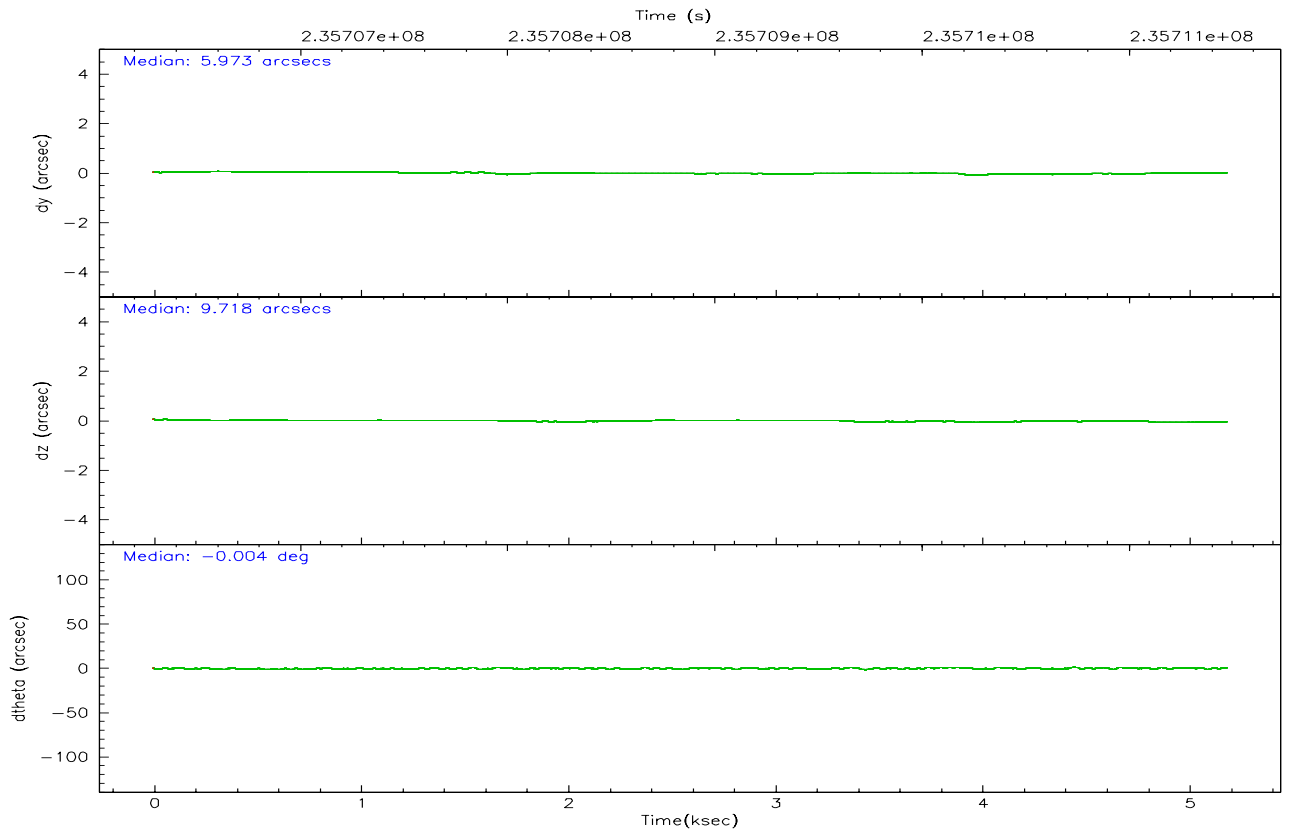
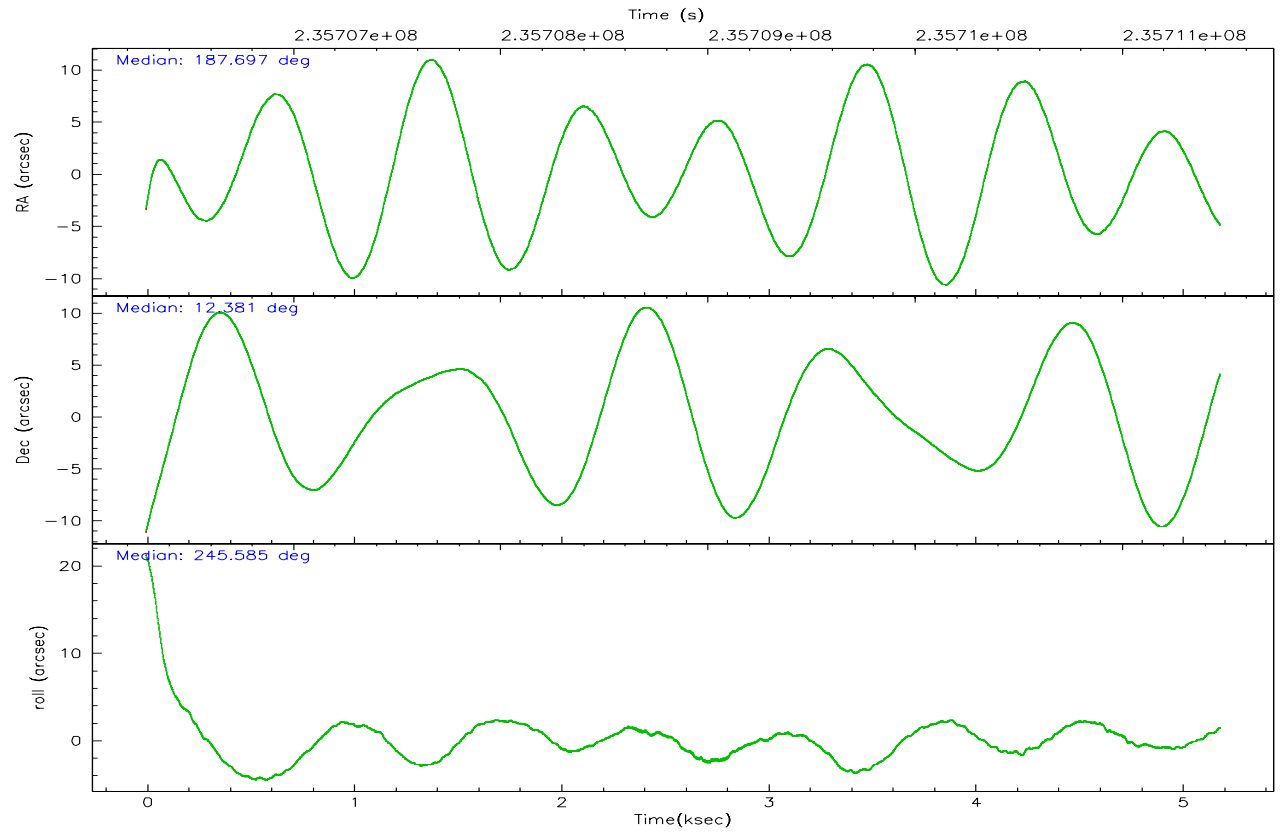
	ccd 7
grade 0 events	17126
	22%
grade 1 events	419
	0%
grade 2 events	16213
	21%
grade 3 events	6806
	8%
grade 4 events	6554
	8%
grade 5 events	2728
	3%
grade 6 events	15351
	20%
grade 7 events	11156
	14%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	1/8	1/8
Pointing RA	187.694256	187.6973635605789	Subarray start row	0	449
Pointing Dec	12.408188	12.38109496174367	Subarray row count	1024	128
Pointing Roll	245.439015	245.5949958815005	Alternating exposures requested	N	N
Window start time	235612864.184000	235612864.184000	Primary exposure time	0.000000	0.4
Window stop time	236217664.184000	236217664.184000			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	235706467.184000	235705161.88275			
Observation start date	2005-06-21T02:00:03	2005-06-21T01:39:21			
Observation end time	235711467.184000	235711982.23307			
Observation end date	2005-06-21T03:23:23	2005-06-21T03:33:02			
Read mode	TIMED	TIMED			

2.3 Aspect



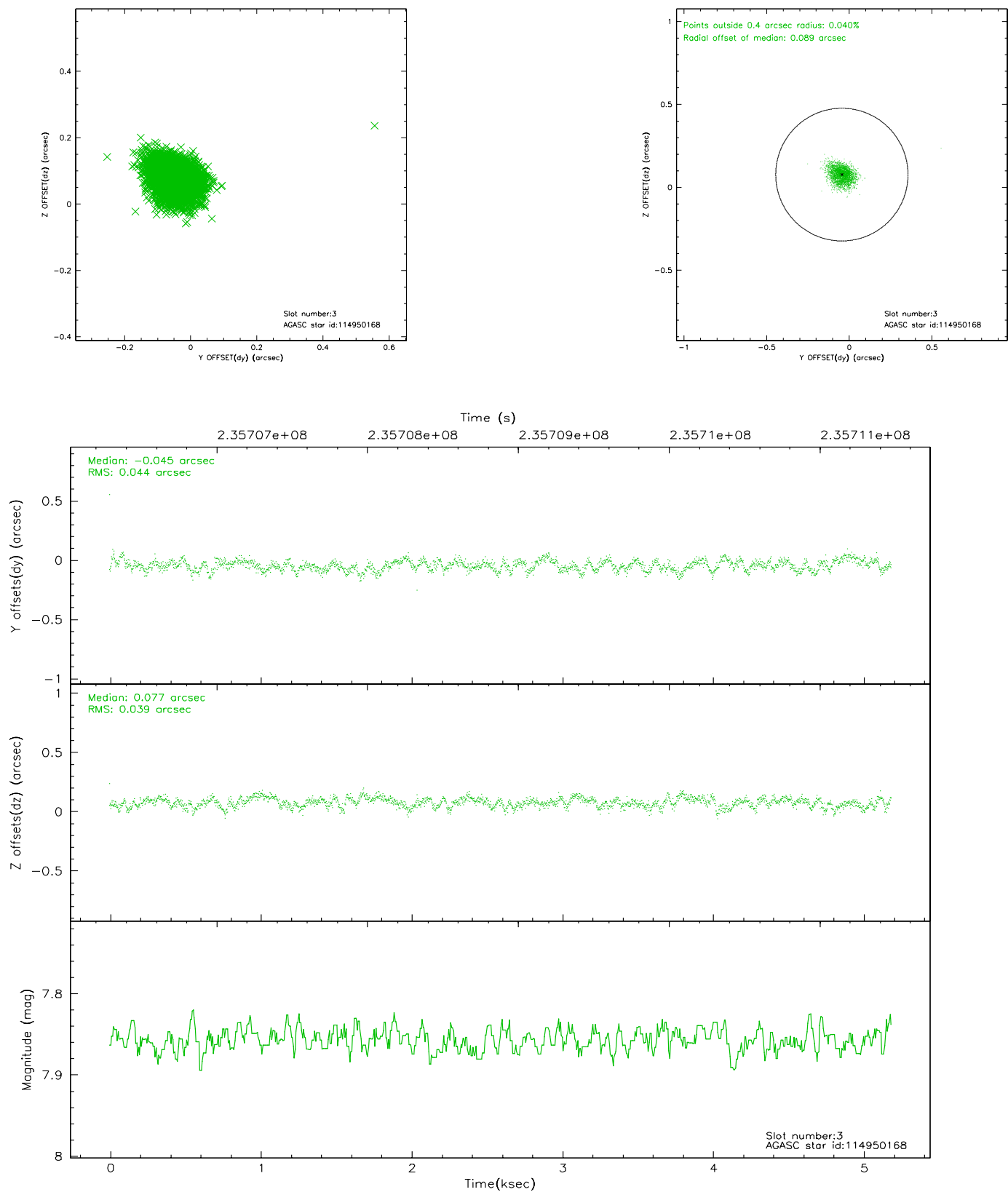


Slot Statistics

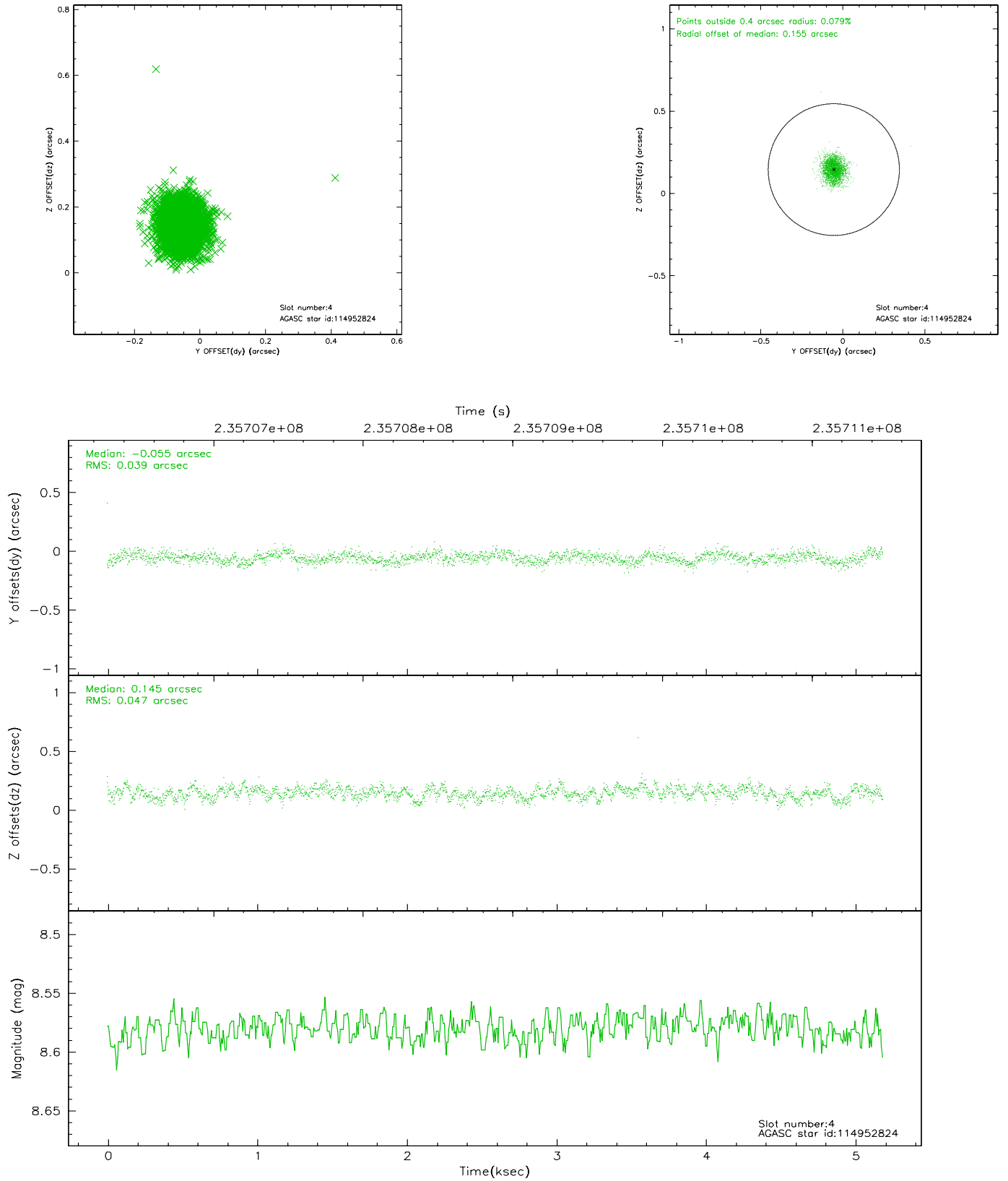
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1266	-0.024	-0.015	0.006	0.010	0.000000	0.000000	-758.72	-1730.97
1	FID	ACIS-S-5	7.24	1266	-0.040	-0.013	0.006	0.011	0.000000	0.000000	-1812.38	169.80
2	FID	ACIS-S-6	7.35	1266	0.038	0.036	0.005	0.009	0.000000	0.000000	401.69	815.08
3	GUIDE	114950168	7.86	2531	-0.045	0.077	0.061	0.098	187.143398	12.117441	1756.61	-1328.86
4	GUIDE	114952824	8.58	2529	-0.055	0.145	0.064	0.101	187.703904	12.486727	-270.27	-87.33
5	GUIDE	114954440	9.19	2531	0.030	-0.022	0.091	0.160	186.915066	12.219118	1755.48	-2211.55
6	GUIDE	114955056	8.33	2529	-0.021	-0.097	0.066	0.103	187.914001	12.127854	596.83	1121.84
7	GUIDE	114957008	8.26	2530	0.093	-0.099	0.068	0.115	186.894794	12.099160	2178.93	-2098.51

2.4 Star Slots

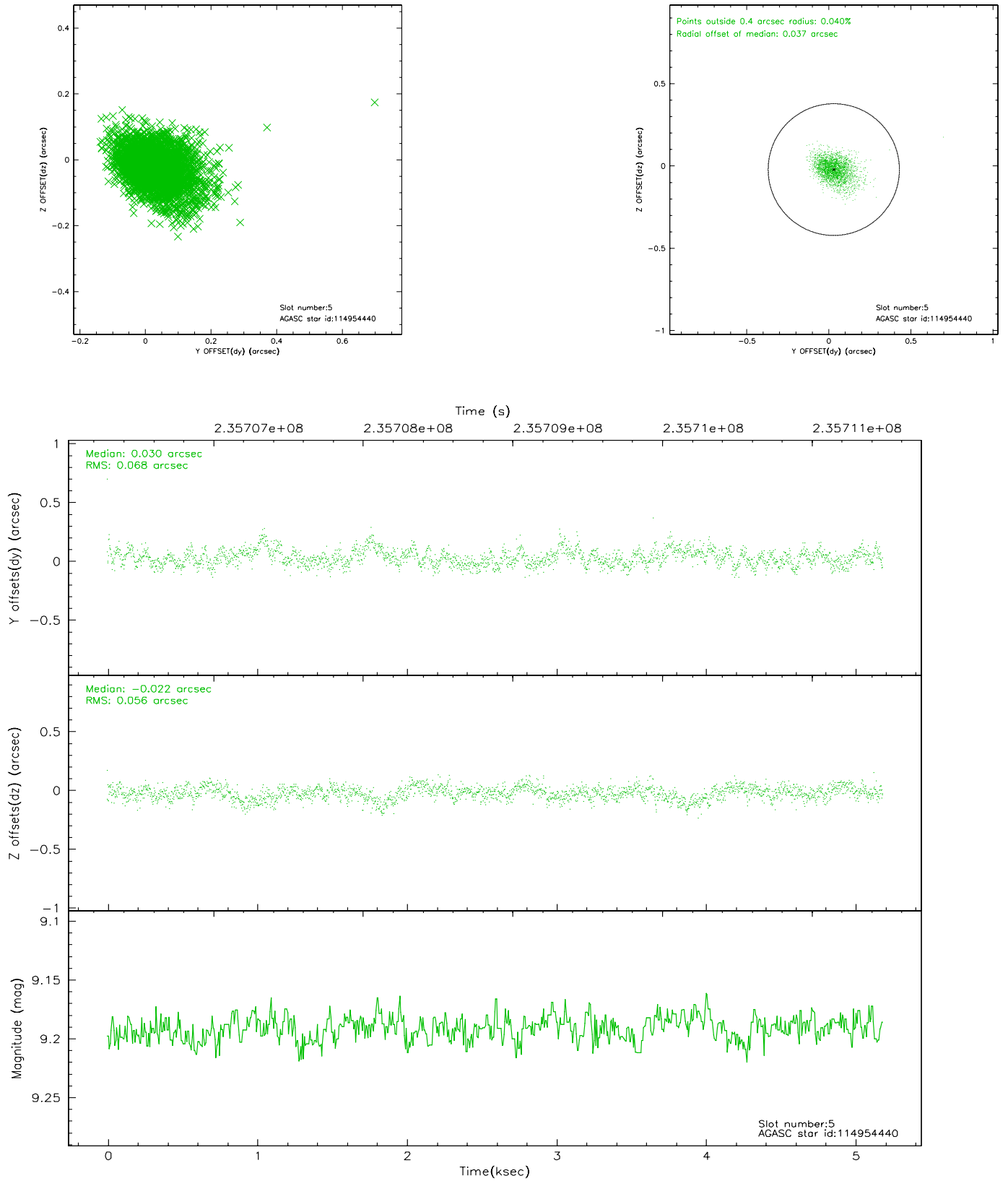
2.4.1 Slot 3



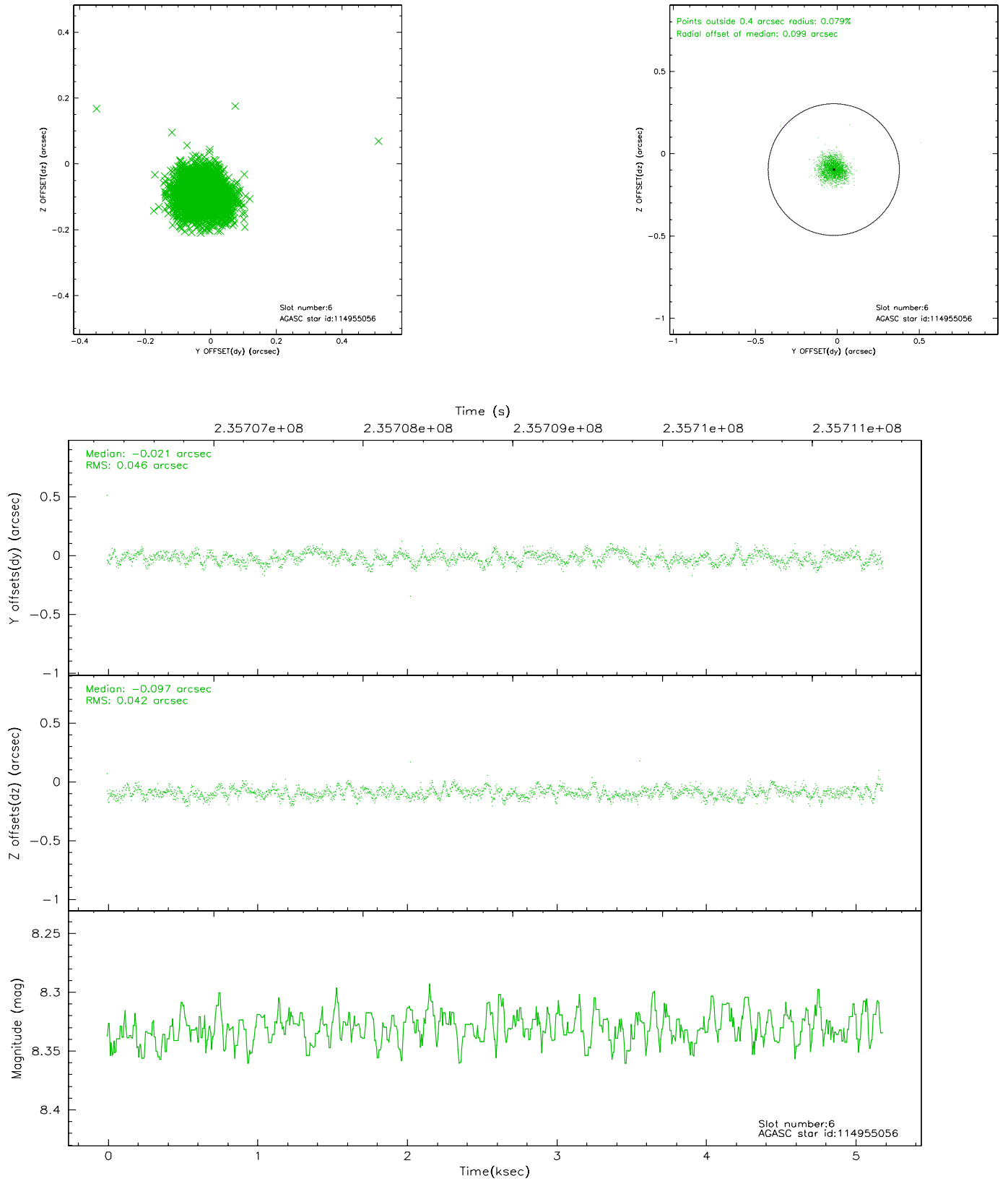
2.4.2 Slot 4



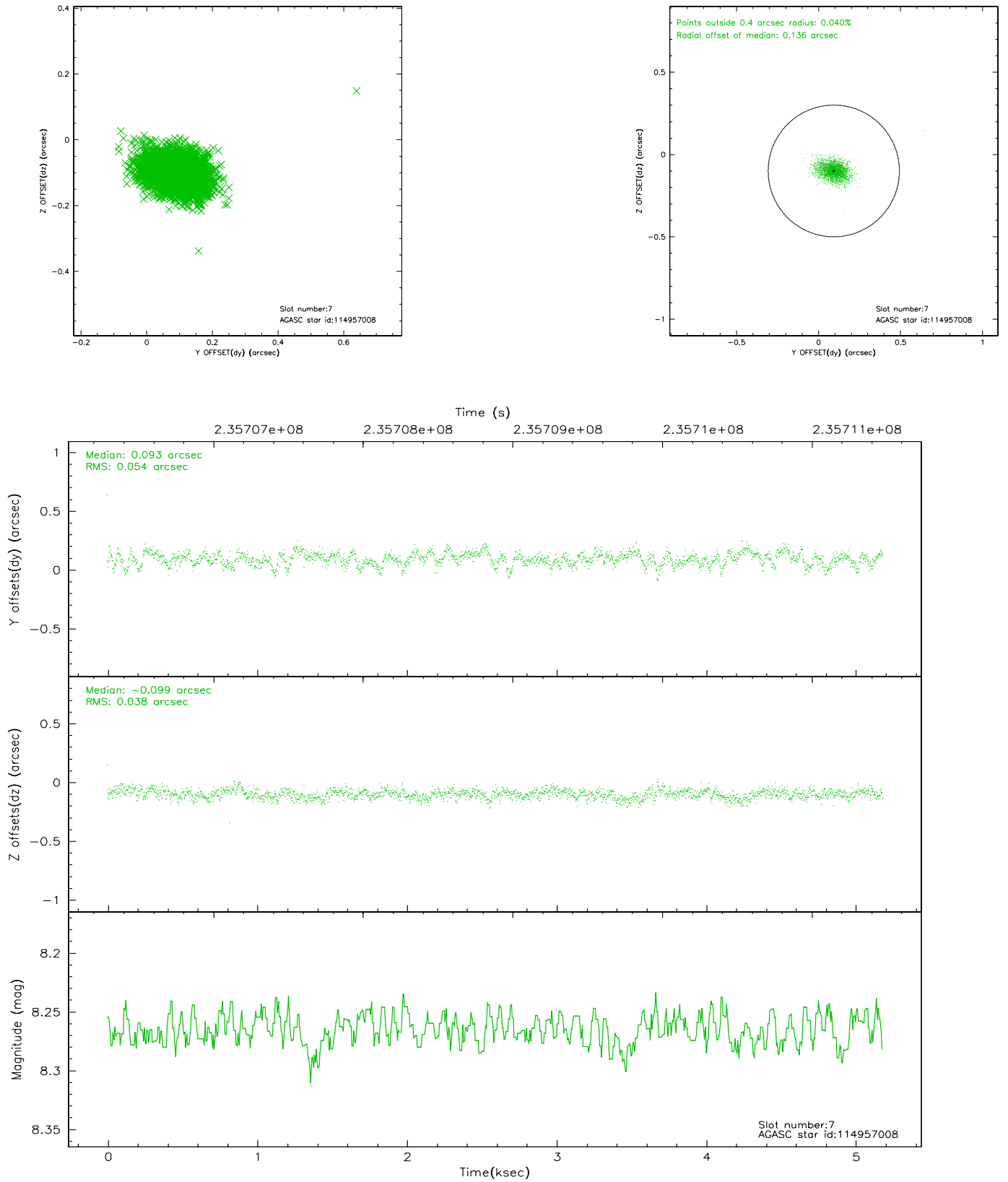
2.4.3 Slot 5



2.4.4 Slot 6

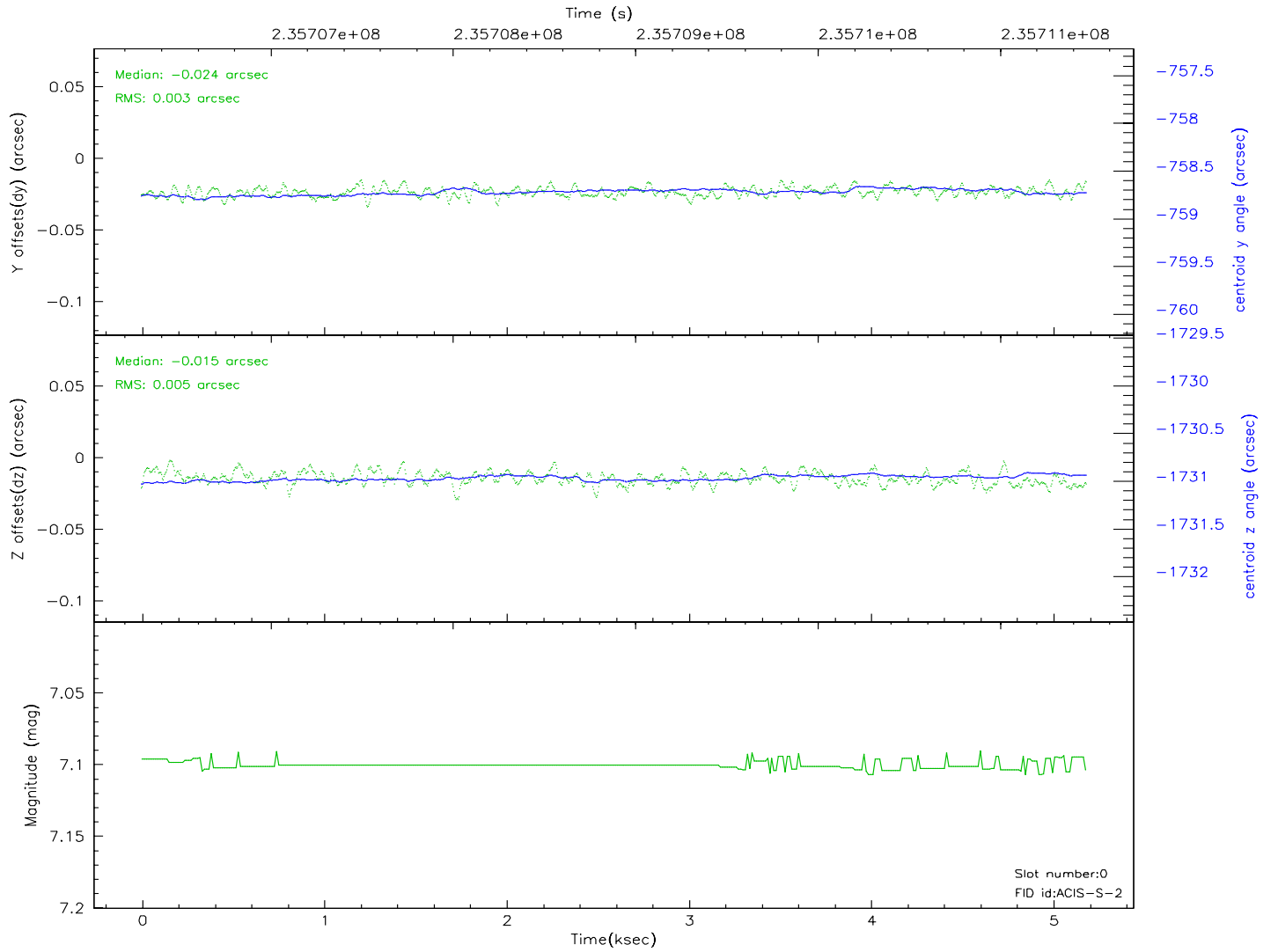
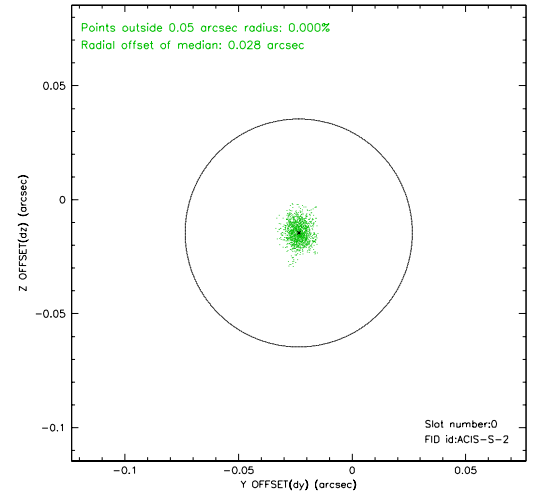
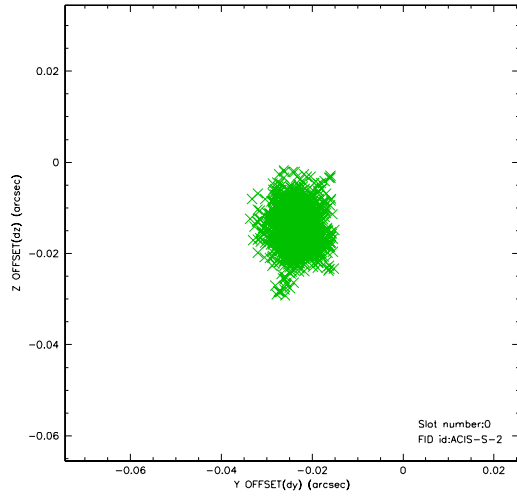


2.4.5 Slot 7

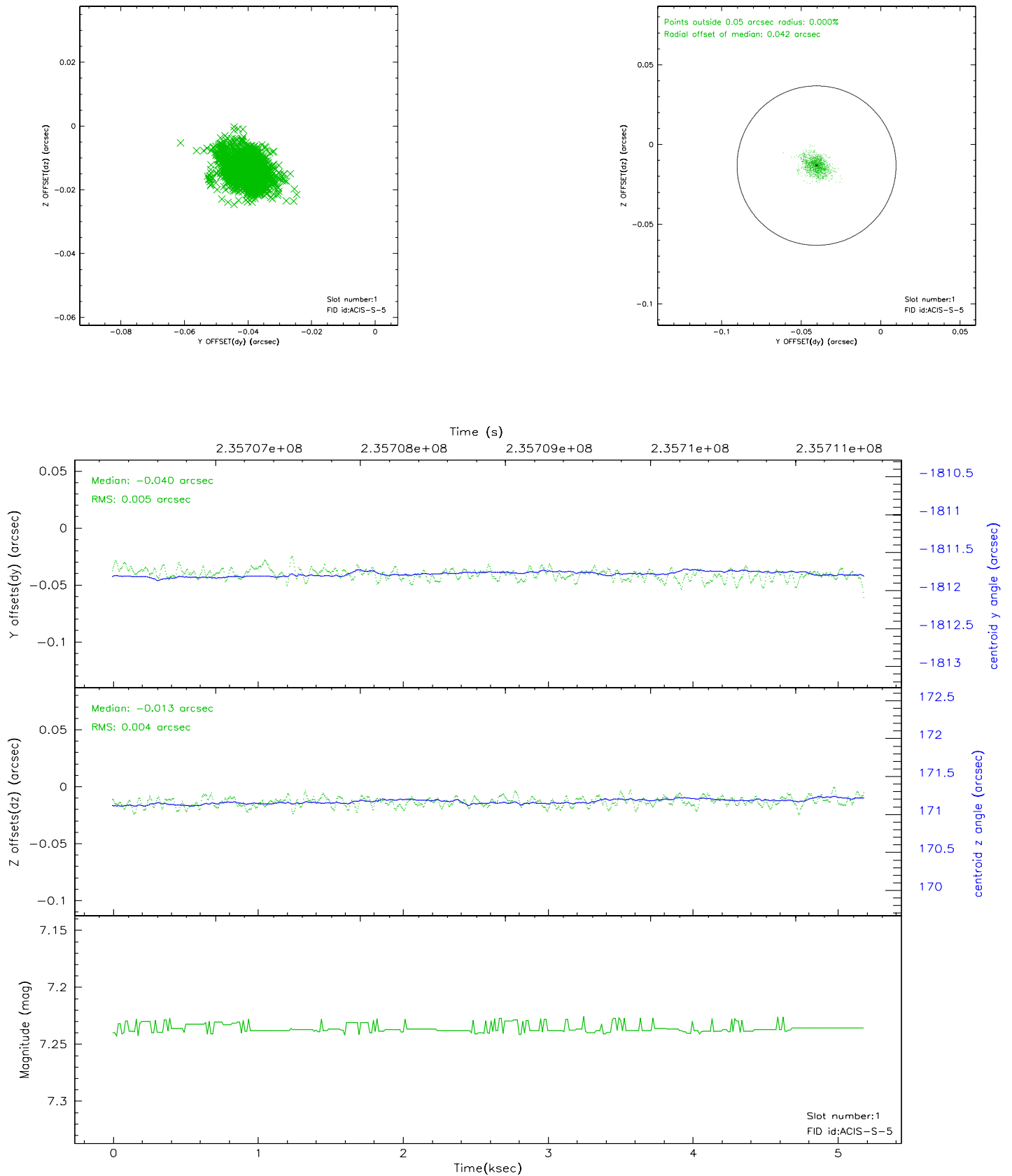


2.5 FID Slots

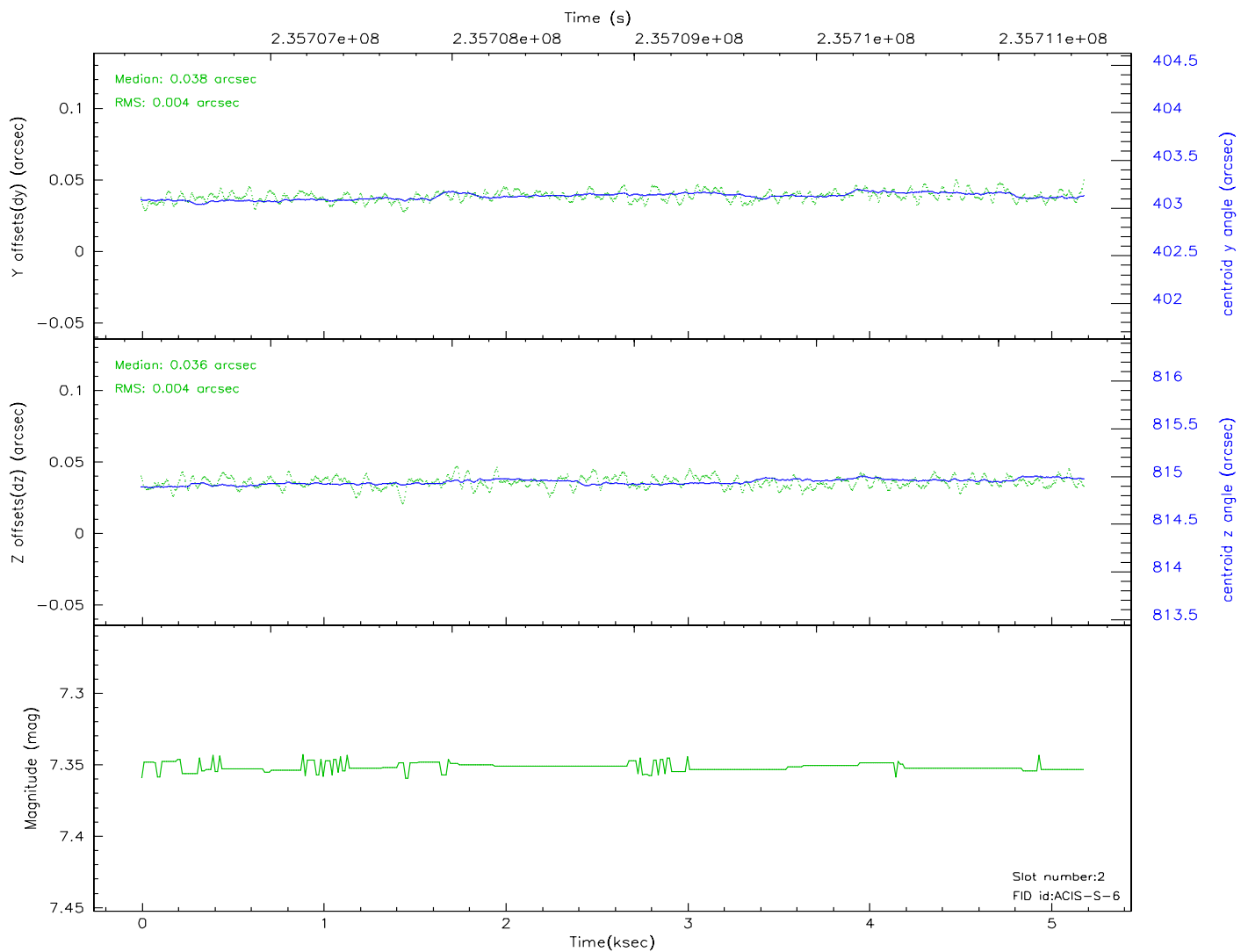
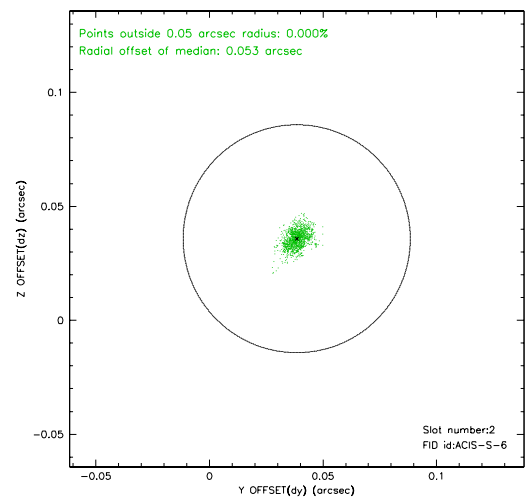
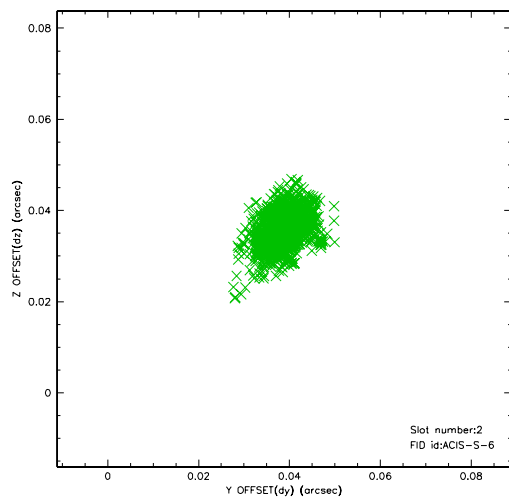
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.03.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1856

A.2 Comments

Window constraint met. Roll angle preference not met. The knot in the jet does fall on the readout streak, which is what the observer was trying to avoid. Since request for off-nominal roll was a preference rather than a constraint, all required constraints have been met.