

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3976 - L2 Version 3
Chandra X-Ray Center

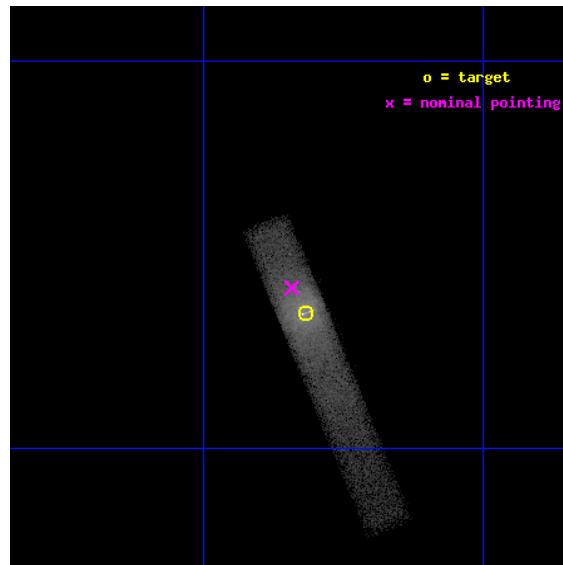
L2 Processing Date : Oct 19 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

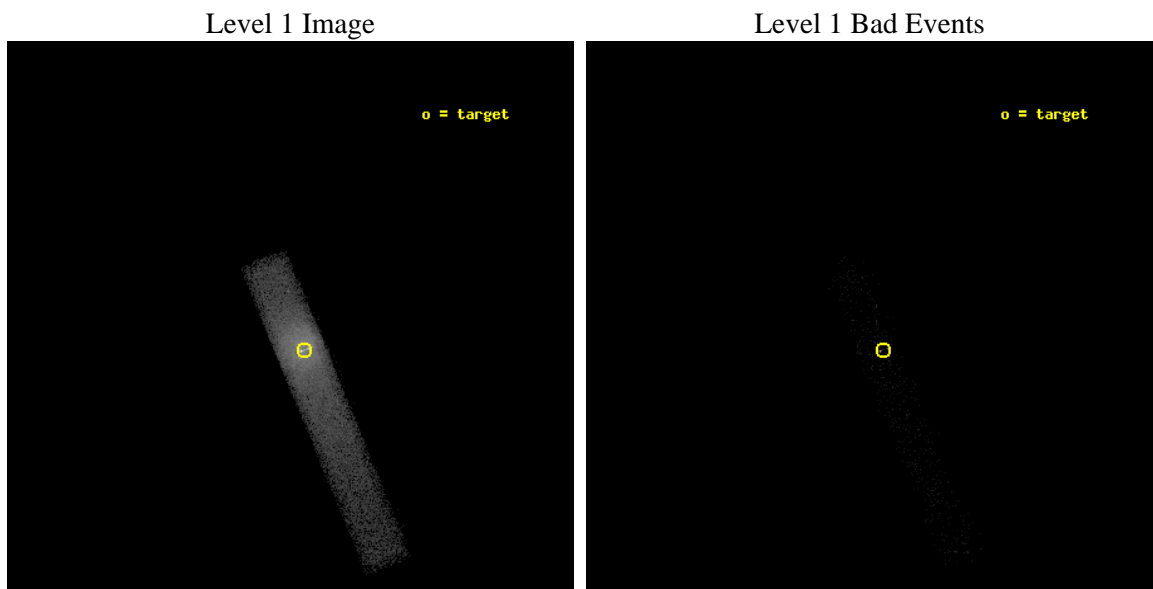
seq_num	700655	Sequence number
obs_id	3976	Observation id
title	X-RAY VARIABILITY IN THE JET AND CORE OF M87	Proposal title
observer	Dr. Daniel Harris	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.71059409424	Nominal RA [deg]
dec_nom	12.402489905717	Nominal Dec [deg]
roll_nom	67.493316611644	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5284.0000787079	Sum of GTIs [s]
livetime	4792.3091589951	Livetime [s]
ontime7	5284.0000787079	Sum of GTIs [s]
l2events	58890	Number of level 2 events



2 OBI

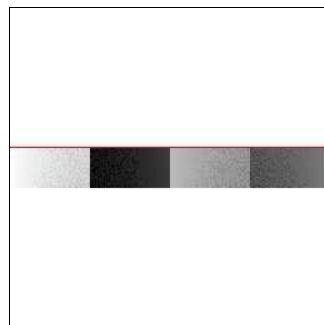
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5284.0000787079	Sum of GTIs [s]
caldsver	4.5.2	 	ontime7	5284.0000787079	Sum of GTIs [s]
date	2012-10-19T14:18:07	Date and time of file creation	l1events	65786	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

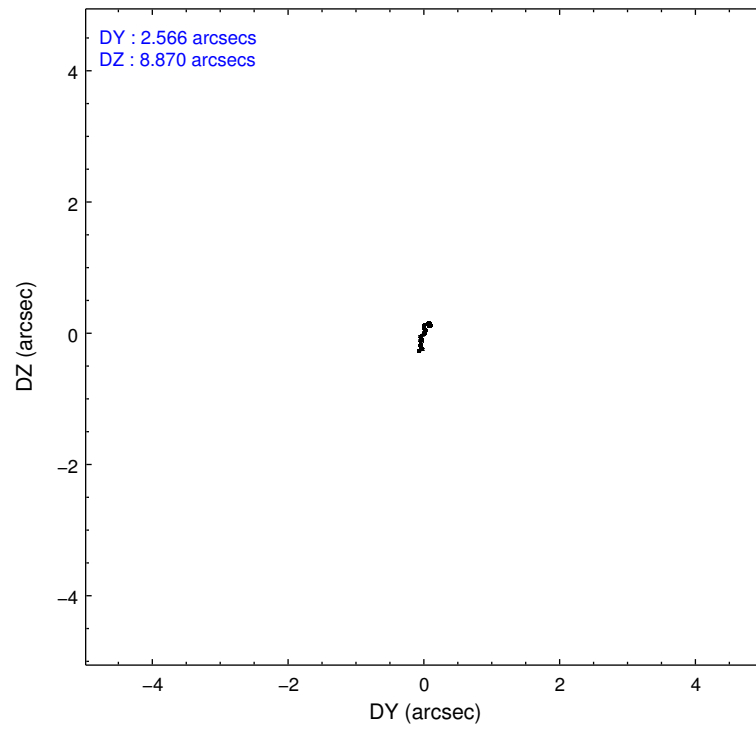
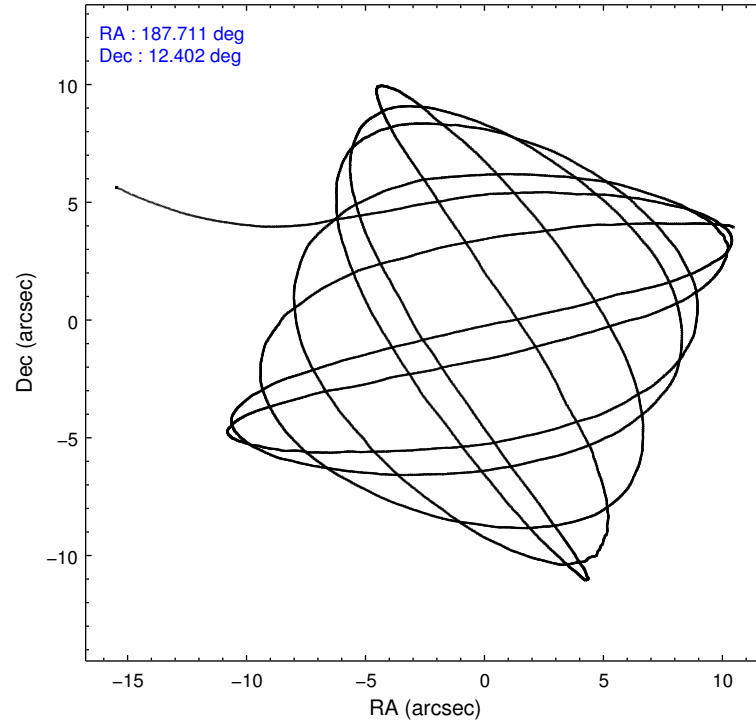
	ccd 7
level 1 events	65786
rejected events	6158
rejected %	9%

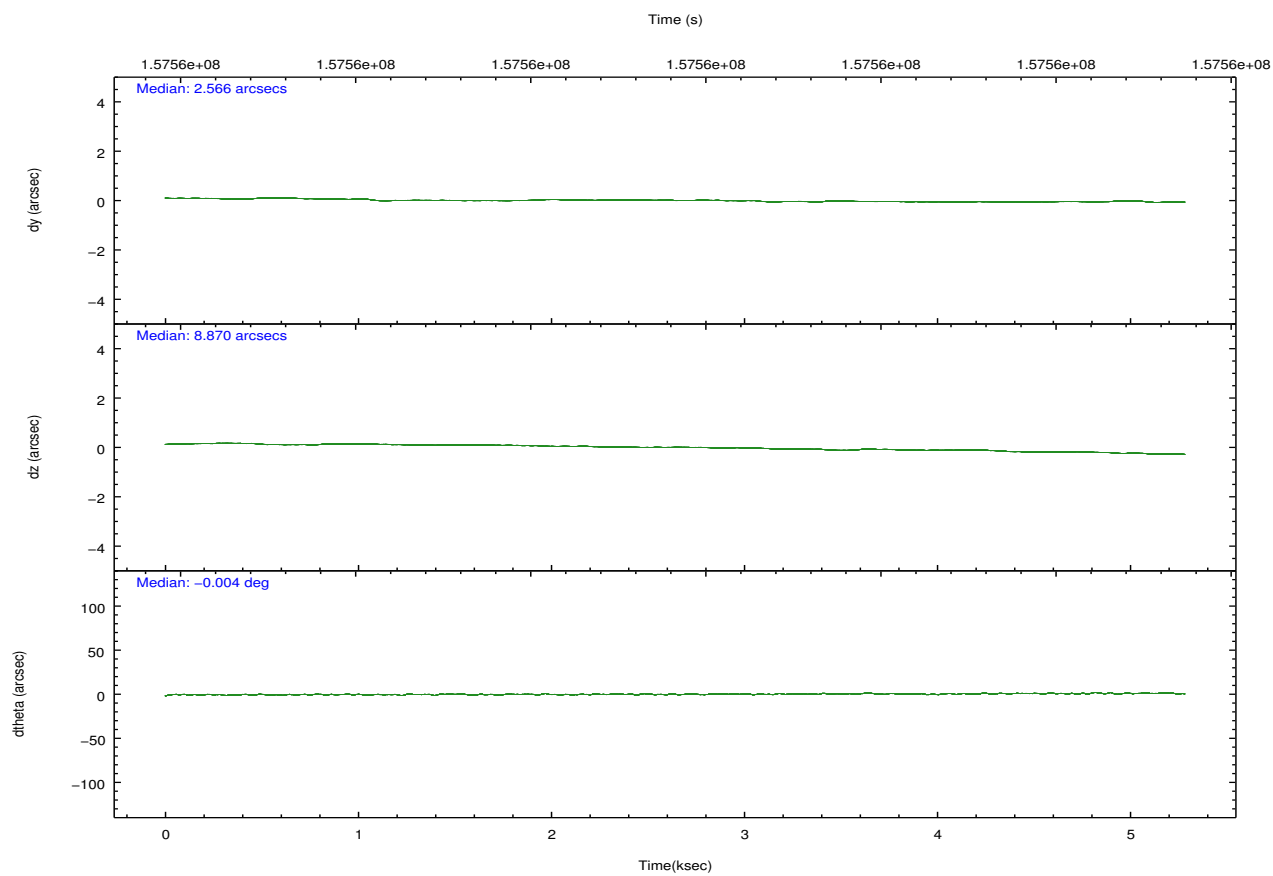
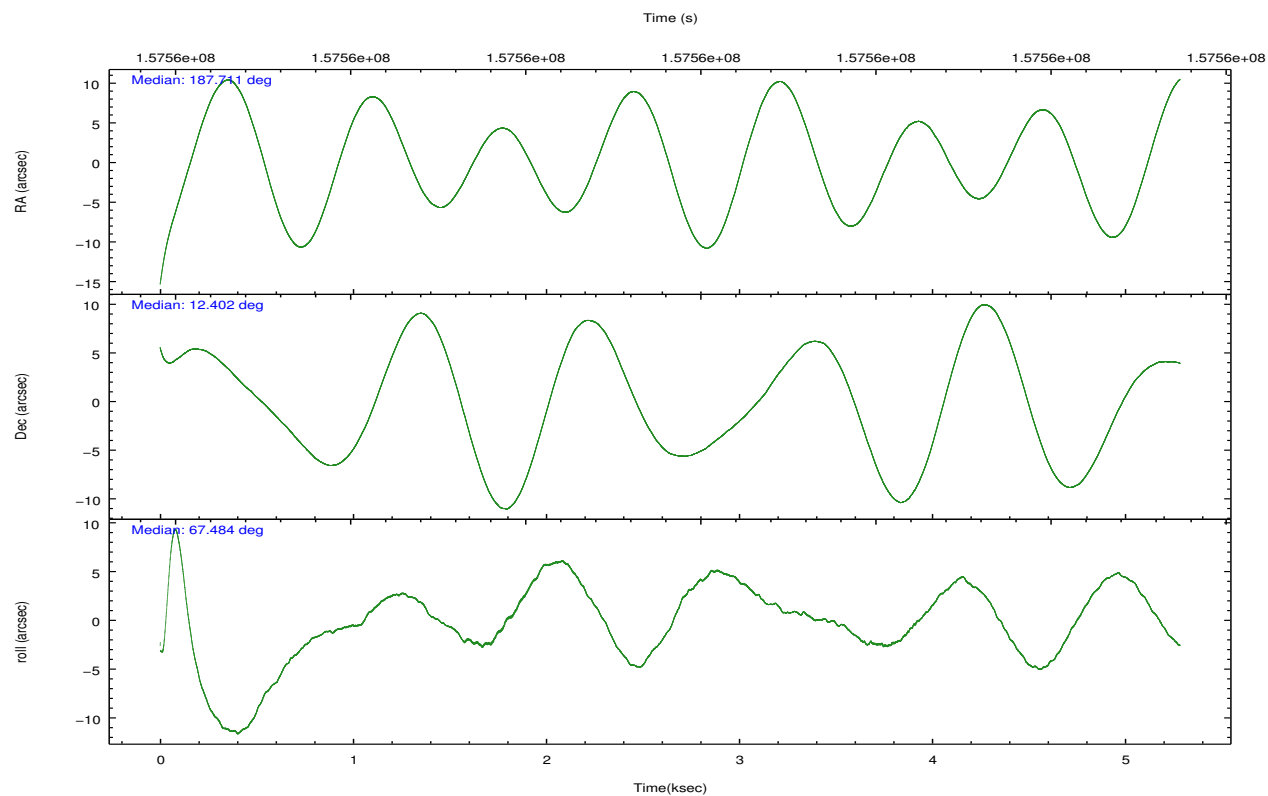
	ccd 7
grade 0 events	20200
	30%
grade 1 events	98
	0%
grade 2 events	15769
	23%
grade 3 events	7272
	11%
grade 4 events	7161
	10%
grade 5 events	1116
	1%
grade 6 events	11121
	16%
grade 7 events	3049
	4%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	187.714633	187.7105940942382	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.375484	12.40248990571724	Subarray start row	449	449
[deg] Pointing Roll	67.335853	67.49331661164352	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	157559467.184000	157558432.24609			
Observation start date	2002-12-29T14:30:03	2002-12-29T14:13:52			
[s] Observation end time (MET)	157564467.184000	157565075.27137			
Observation end date	2002-12-29T15:53:23	2002-12-29T16:04:35			
Read mode	TIMED	TIMED			

2.3 Aspect



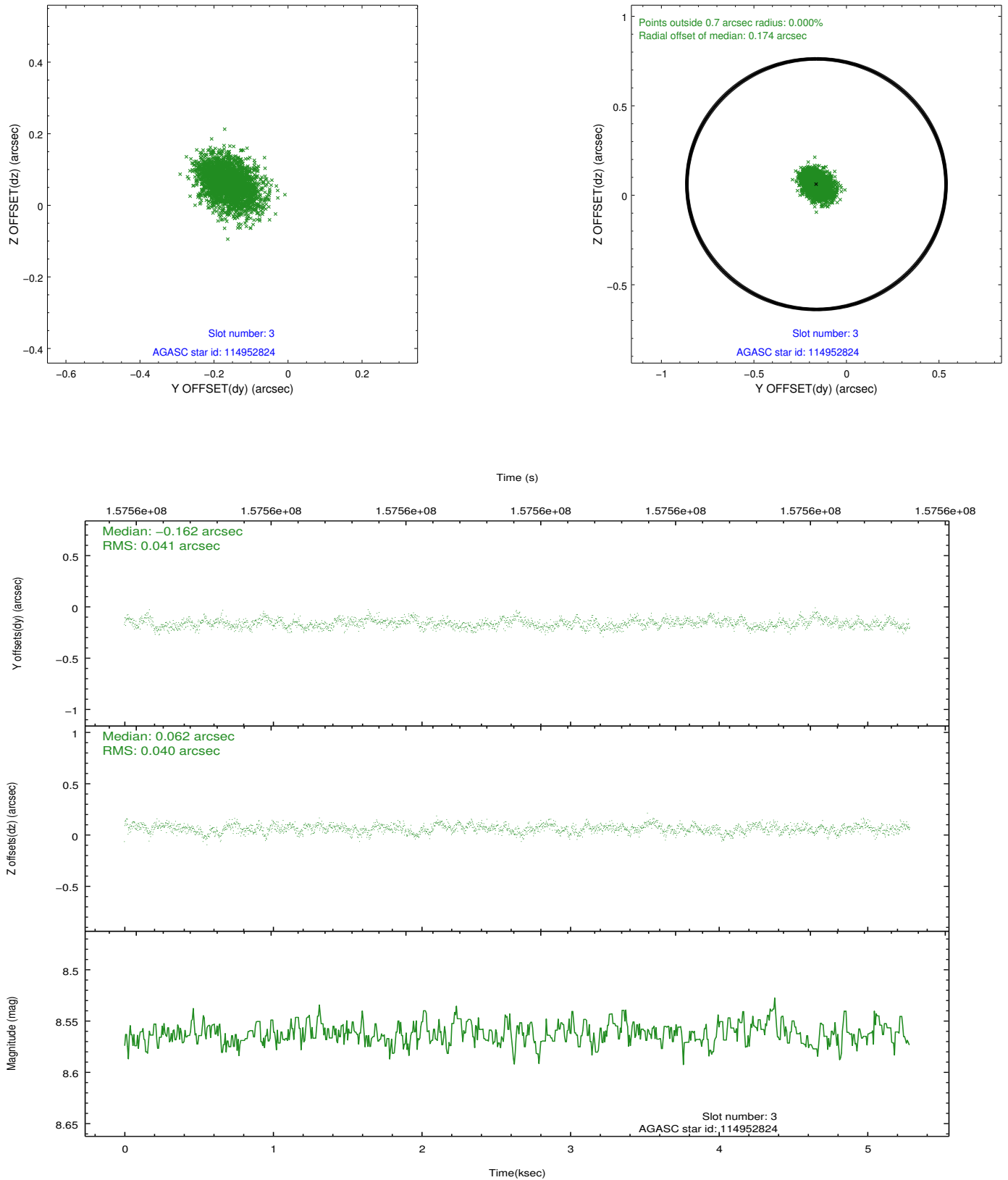


Slot Statistics

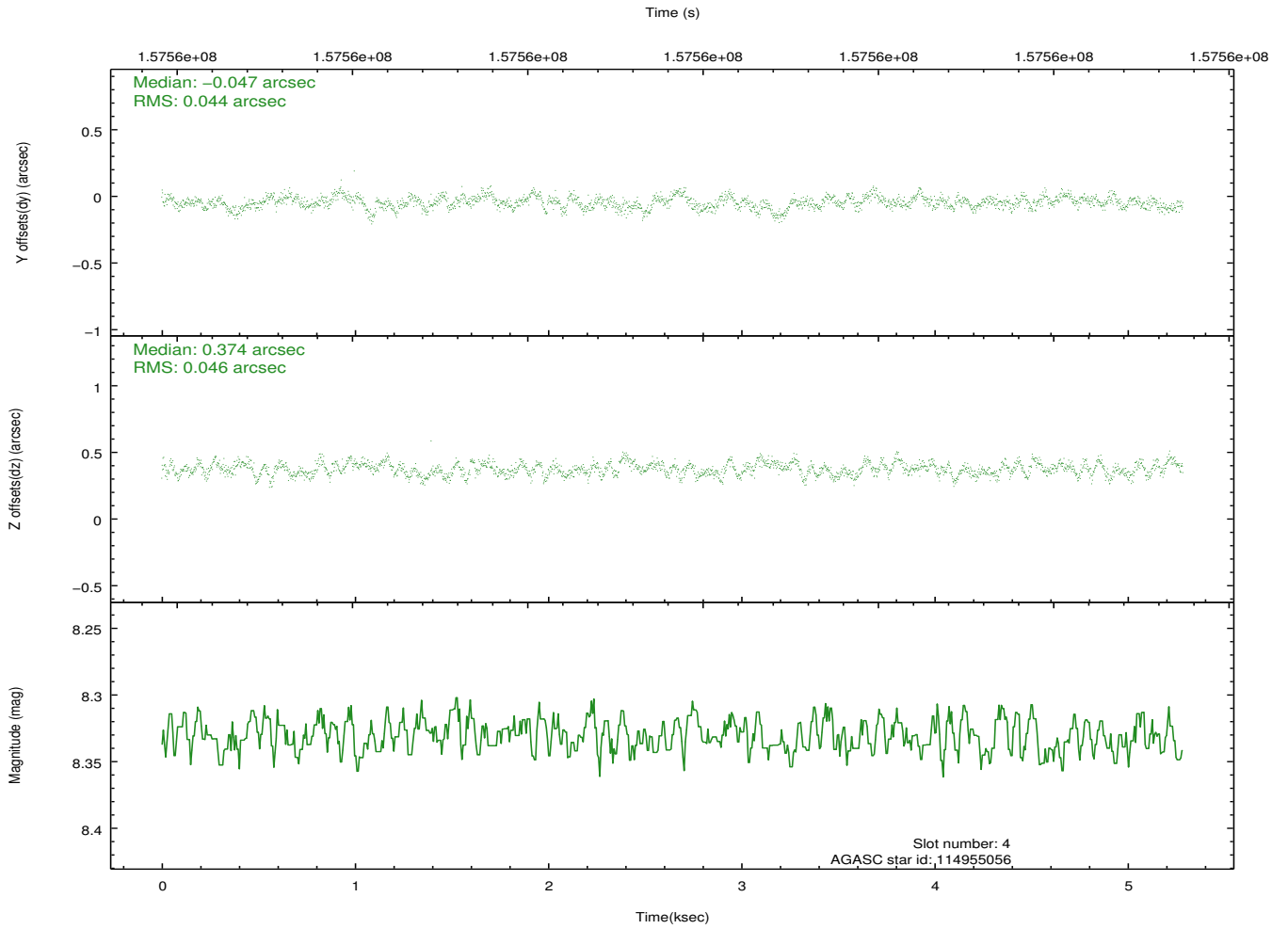
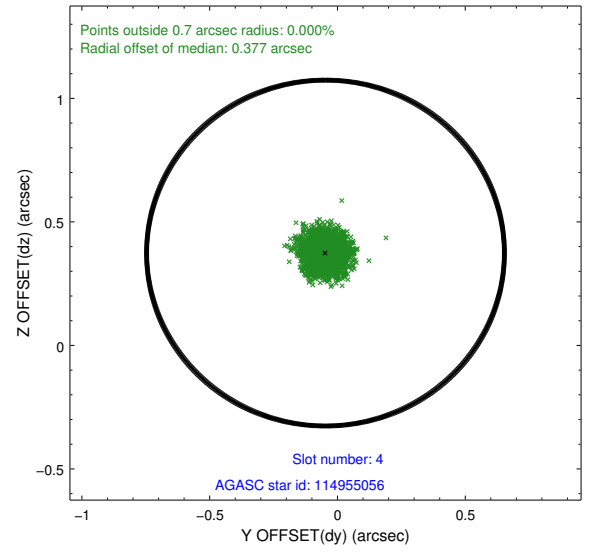
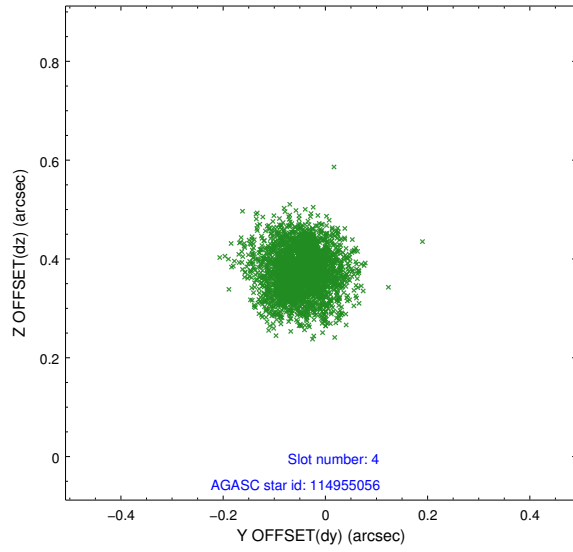
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1289	-0.020	-0.003	0.007	0.011	0.000000	0.000000	-755.22	-1730.02
1	FID	ACIS-S-4	7.20	1289	-0.012	0.011	0.006	0.011	0.000000	0.000000	2157.55	177.30
2	FID	ACIS-S-5	7.23	1288	0.001	0.001	0.007	0.012	0.000000	0.000000	-1806.56	172.26
3	GUIDE	114952824	8.56	2578	-0.162	0.062	0.061	0.100	187.703904	12.486727	354.64	189.61
4	GUIDE	114955056	8.33	2578	-0.047	0.374	0.068	0.109	187.914001	12.127854	-551.89	-990.25
5	GUIDE	114957008	8.25	2579	0.062	-0.089	0.090	0.151	186.894794	12.099160	-2026.72	2281.12
6	GUIDE	114954440	9.21	2579	0.099	-0.253	0.114	0.181	186.915066	12.219118	-1600.82	2381.12
7	GUIDE	114952792	9.52	2578	0.044	-0.092	0.109	0.179	187.070263	12.344747	-974.07	2050.69

2.4 Star Slots

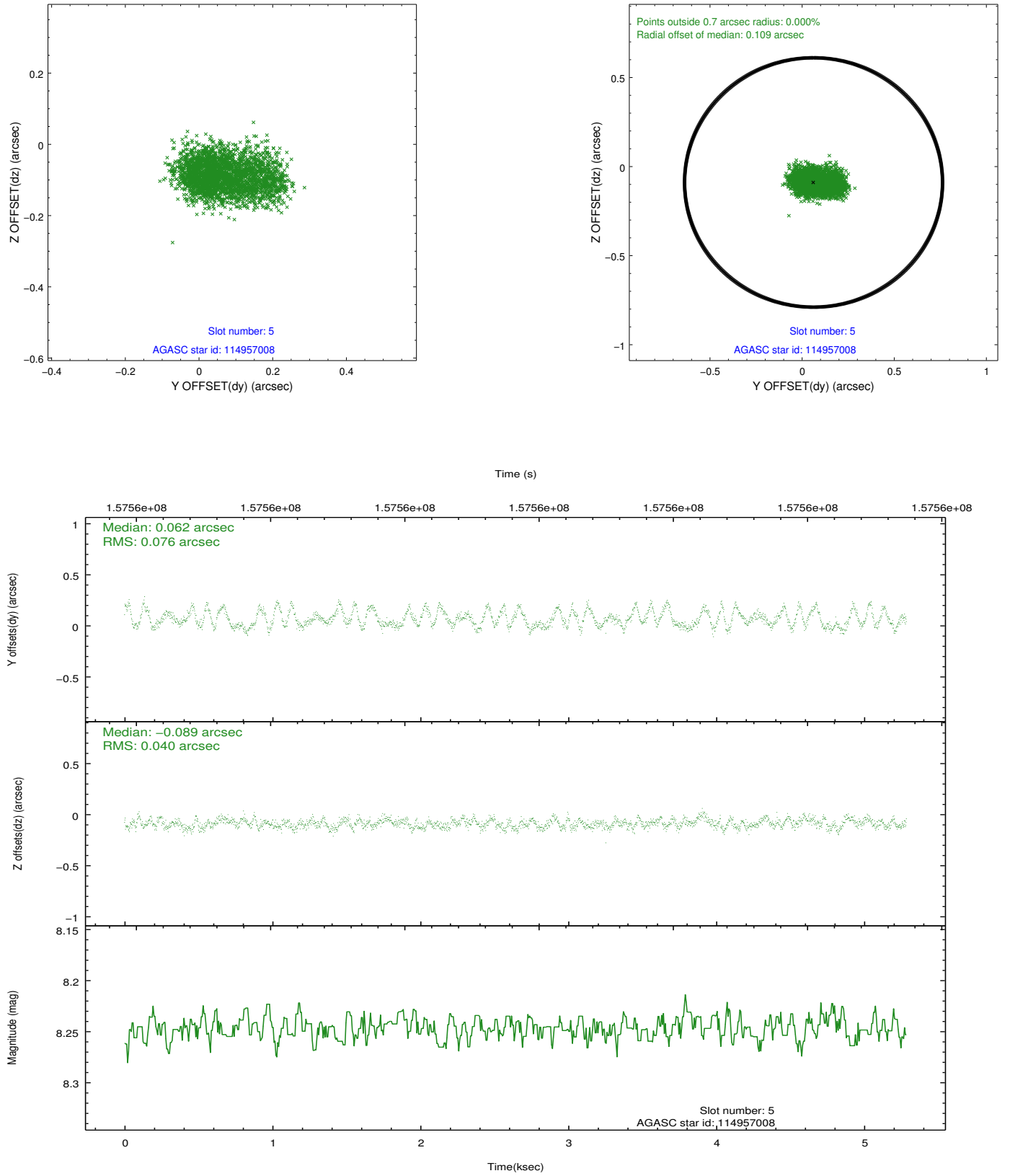
2.4.1 Slot 3



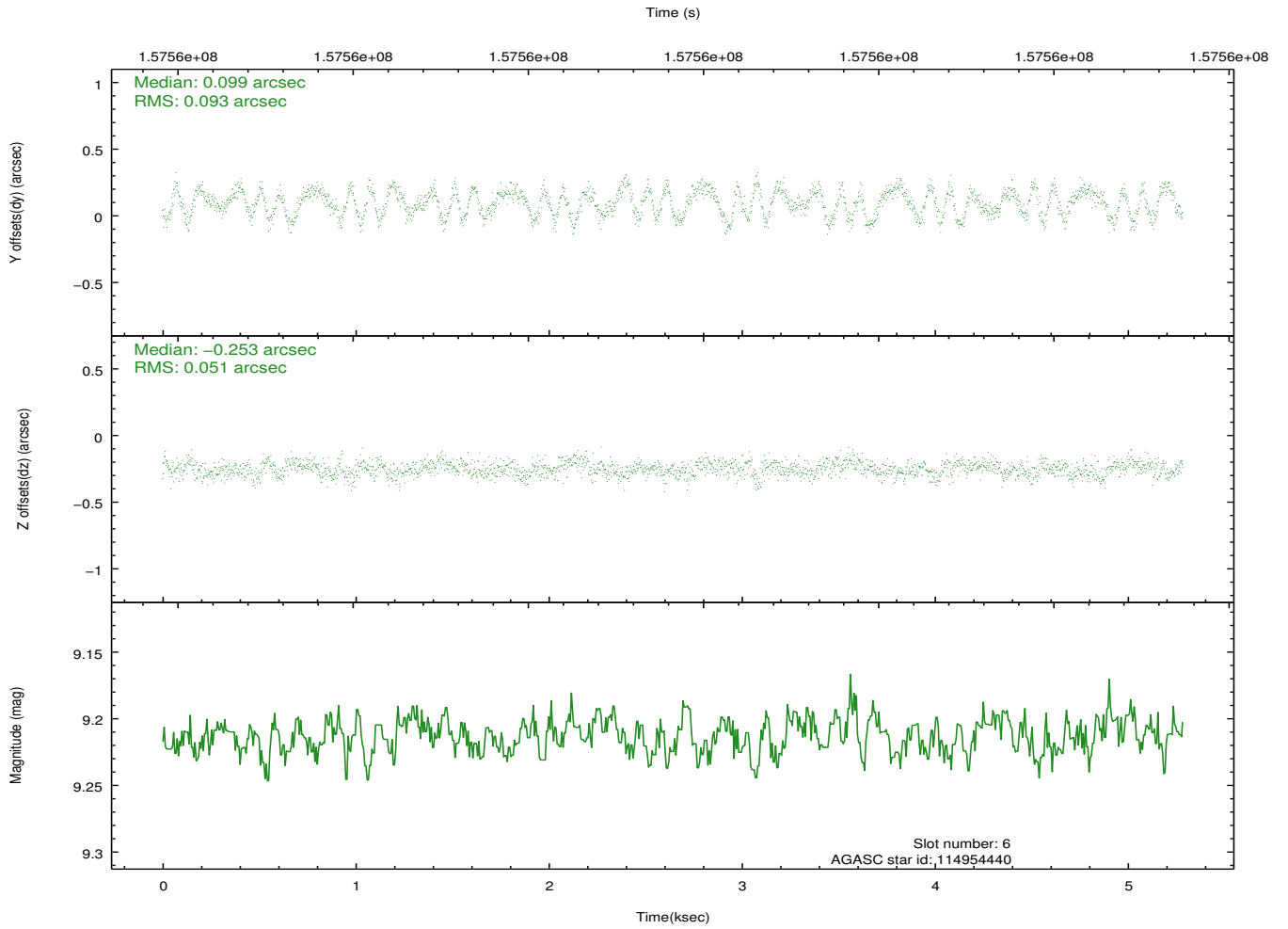
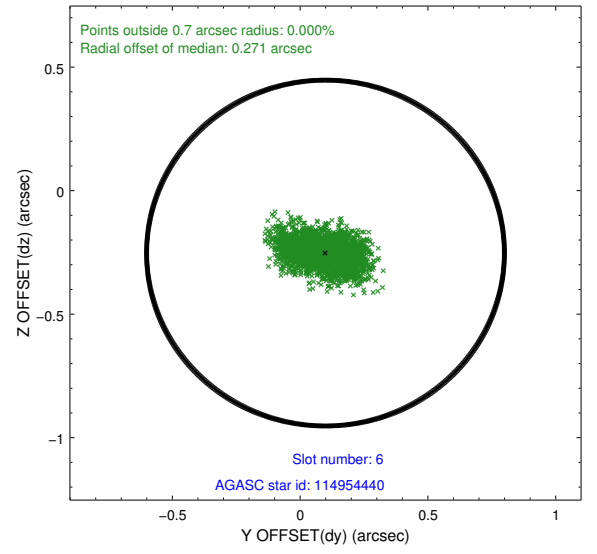
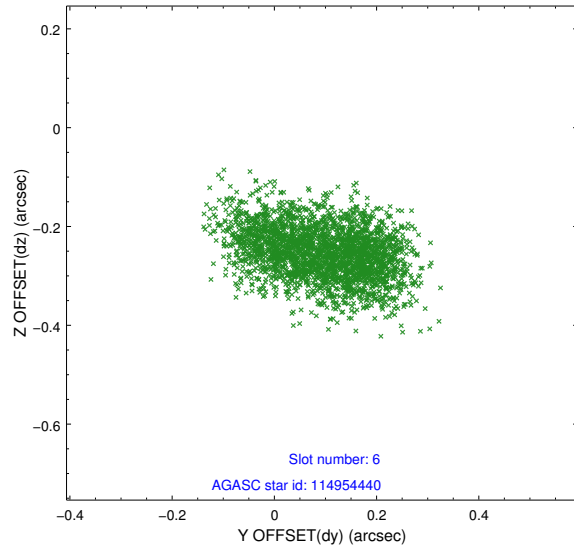
2.4.2 Slot 4



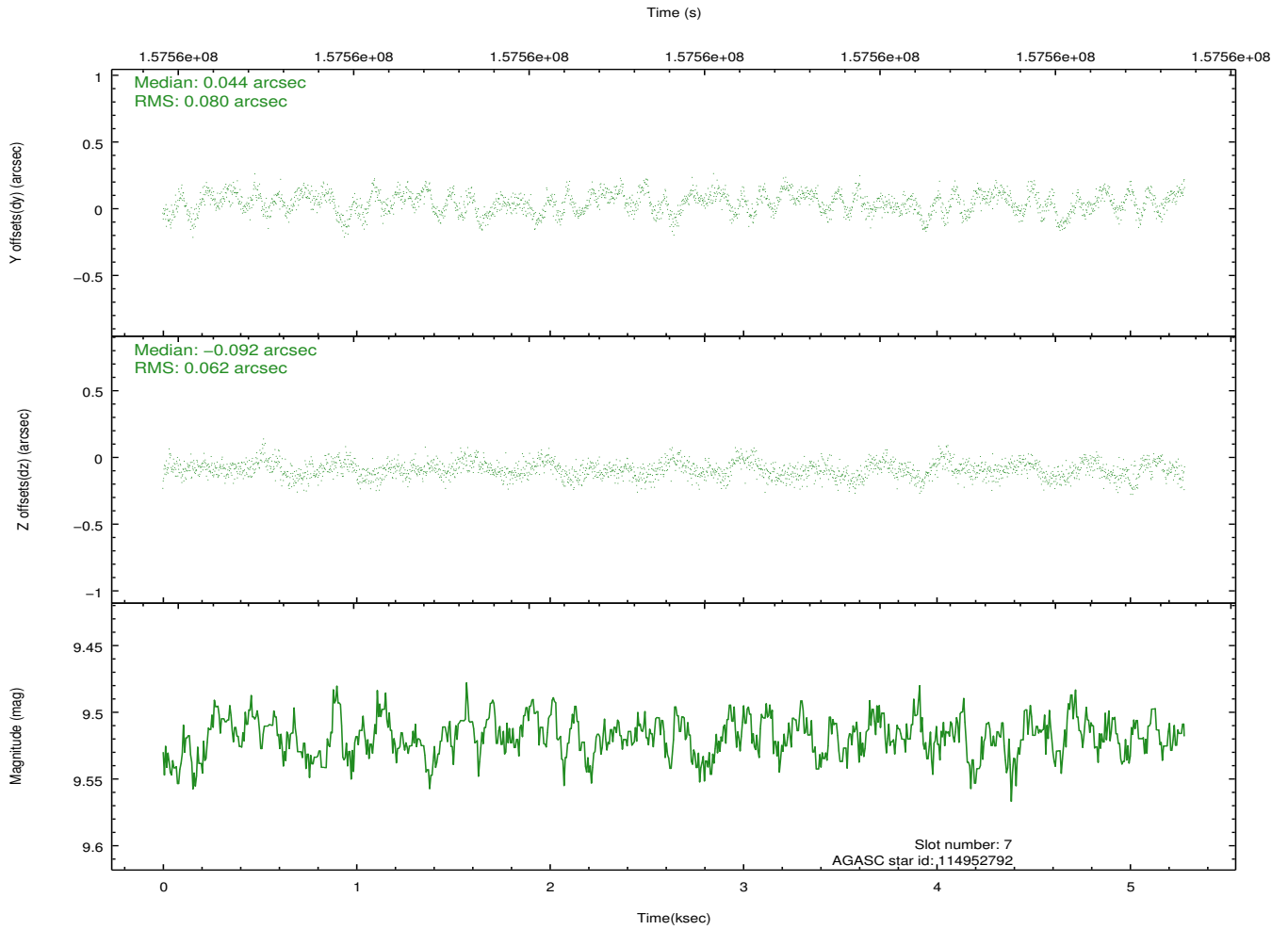
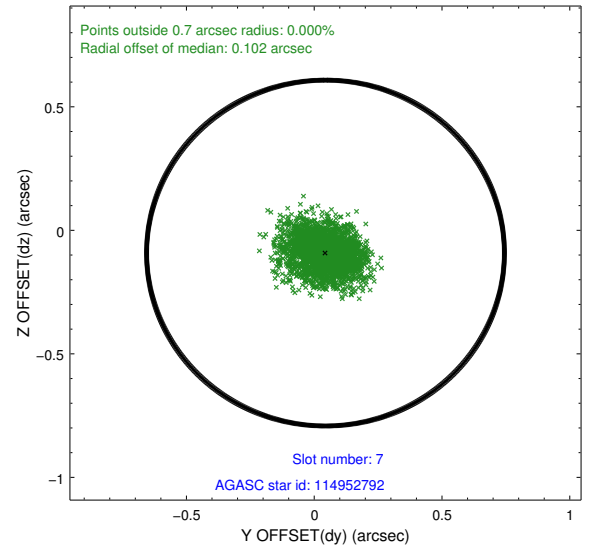
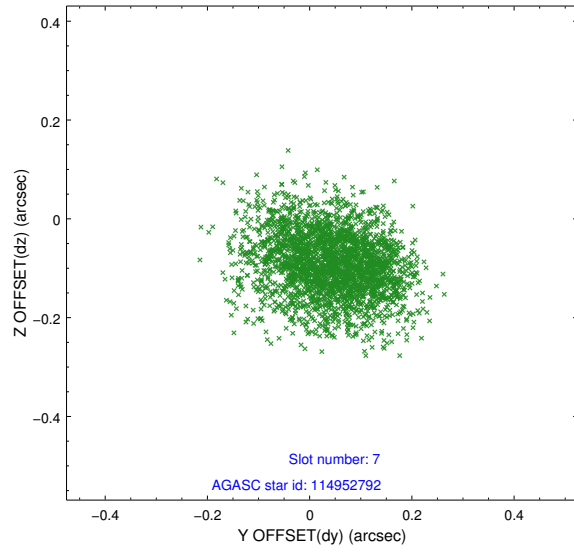
2.4.3 Slot 5



2.4.4 Slot 6

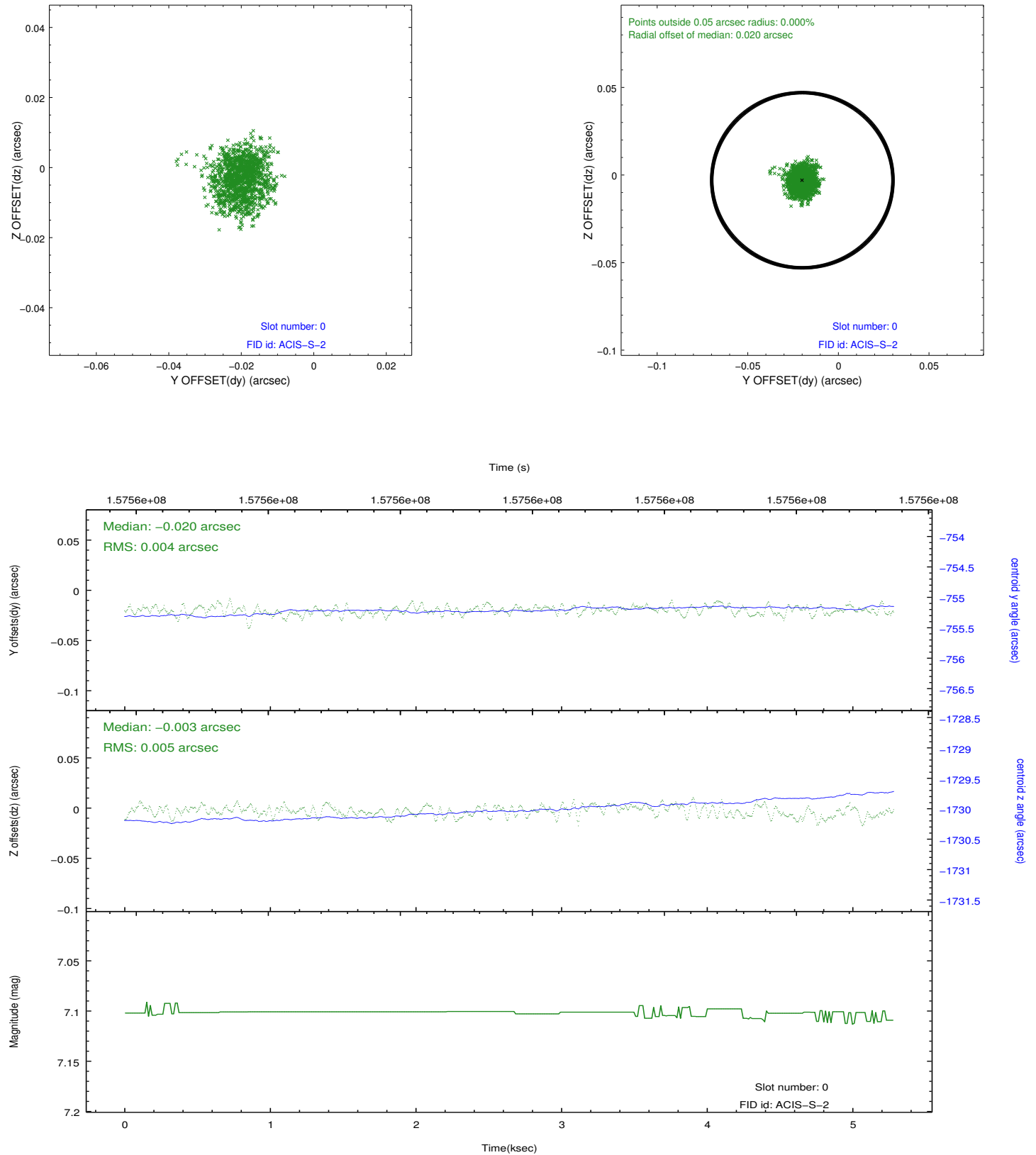


2.4.5 Slot 7

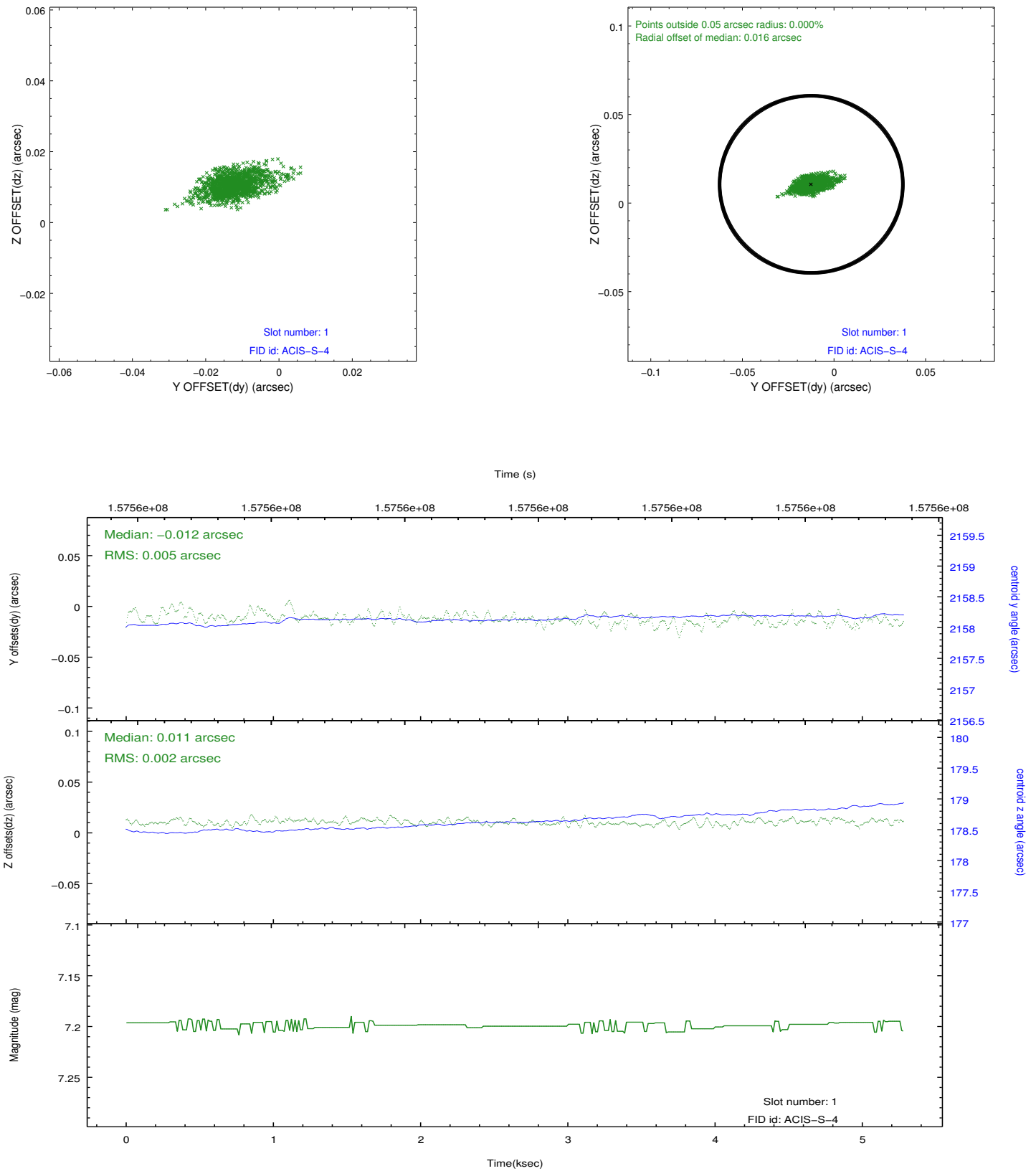


2.5 FID Slots

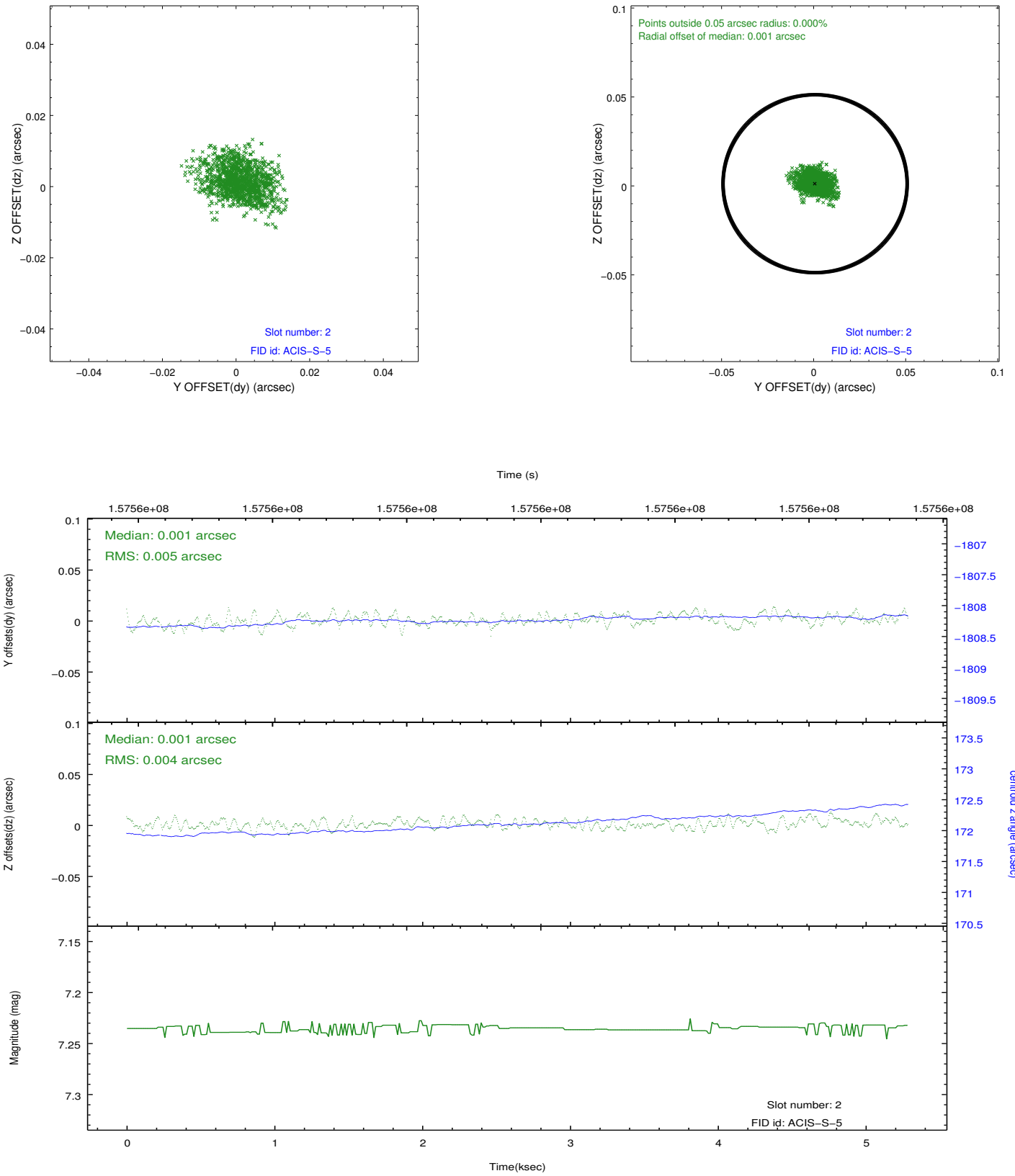
2.5.1 Slot 0



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)	2012.10.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.284

A.2 Comments