

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18809 - L2 Version 1
Chandra X-Ray Center

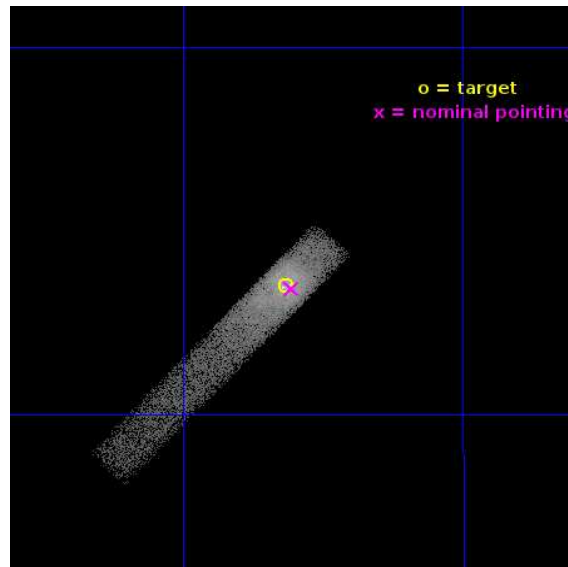
L2 Processing Date : Mar 12 2016

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1 Front

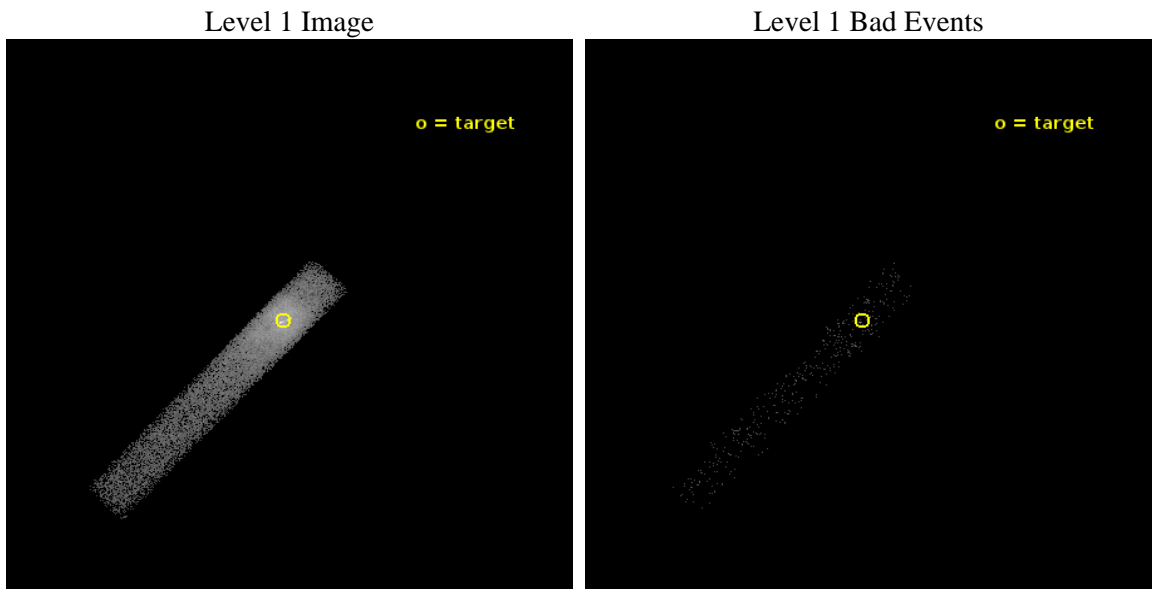
seq_num	703297	Sequence number
obs_id	18809	Observation id
title	Detecting an X-ray Counterpart to an Active TeV Flaring Event in the M87 Jet	Proposal title
observer	C. (Teddy) Cheung	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.70166195046	Nominal RA [deg]
dec_nom	12.390468636309	Nominal Dec [deg]
roll_nom	133.15714741312	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4984.3997027874	Sum of GTIs [s]
livetime	4520.5874322396	Livetime [s]
ontime7	4984.3997027874	Sum of GTIs [s]
l2events	32741	Number of level 2 events



2 OBI

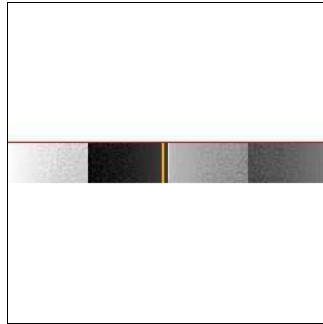
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4914.832000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	4984.3997027874	Sum of GTIs [s]
caldsver	4.7.0	 	ontime7	4984.3997027874	Sum of GTIs [s]
date	2016-03-12T20:15:22	Date and time of file creation	l1events	35900	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

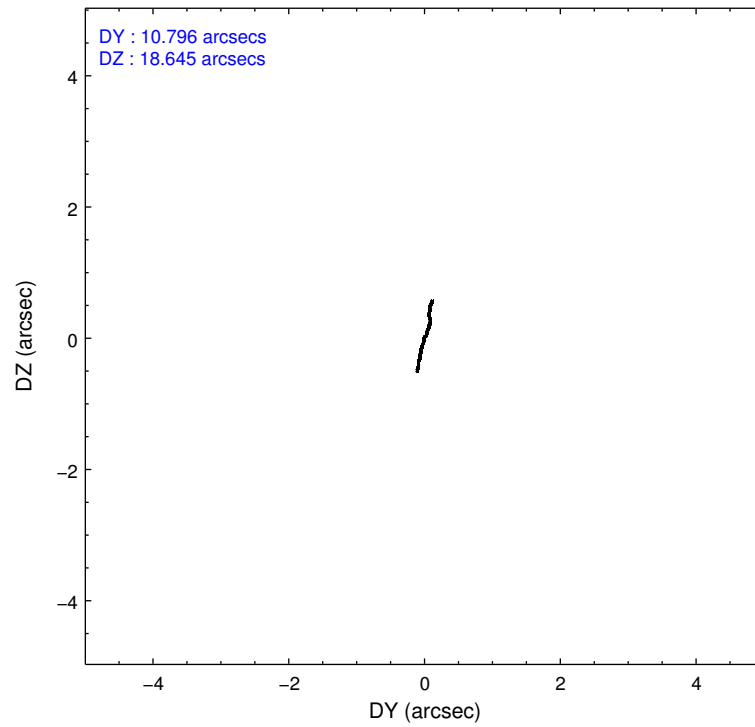
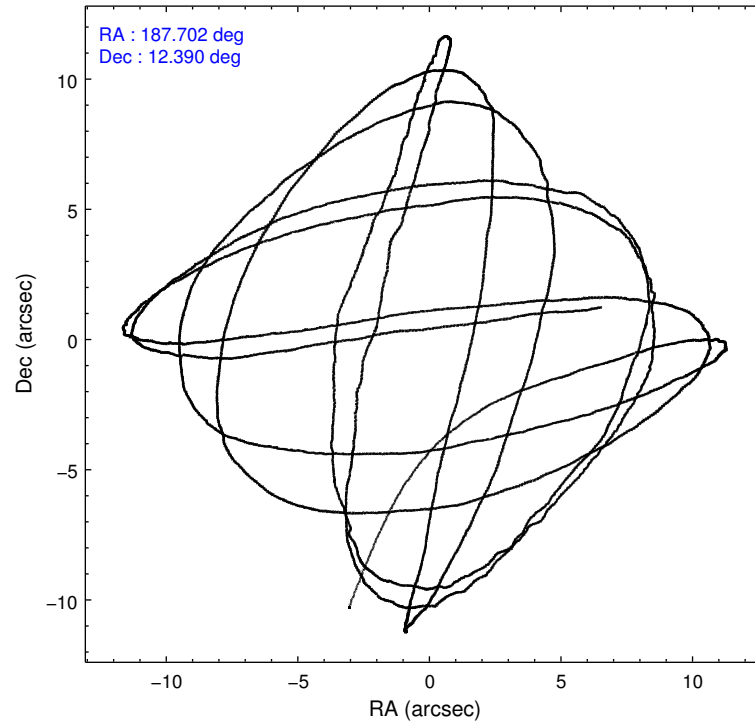
	ccd 7
level 1 events	35900
rejected events	2814
rejected %	7%

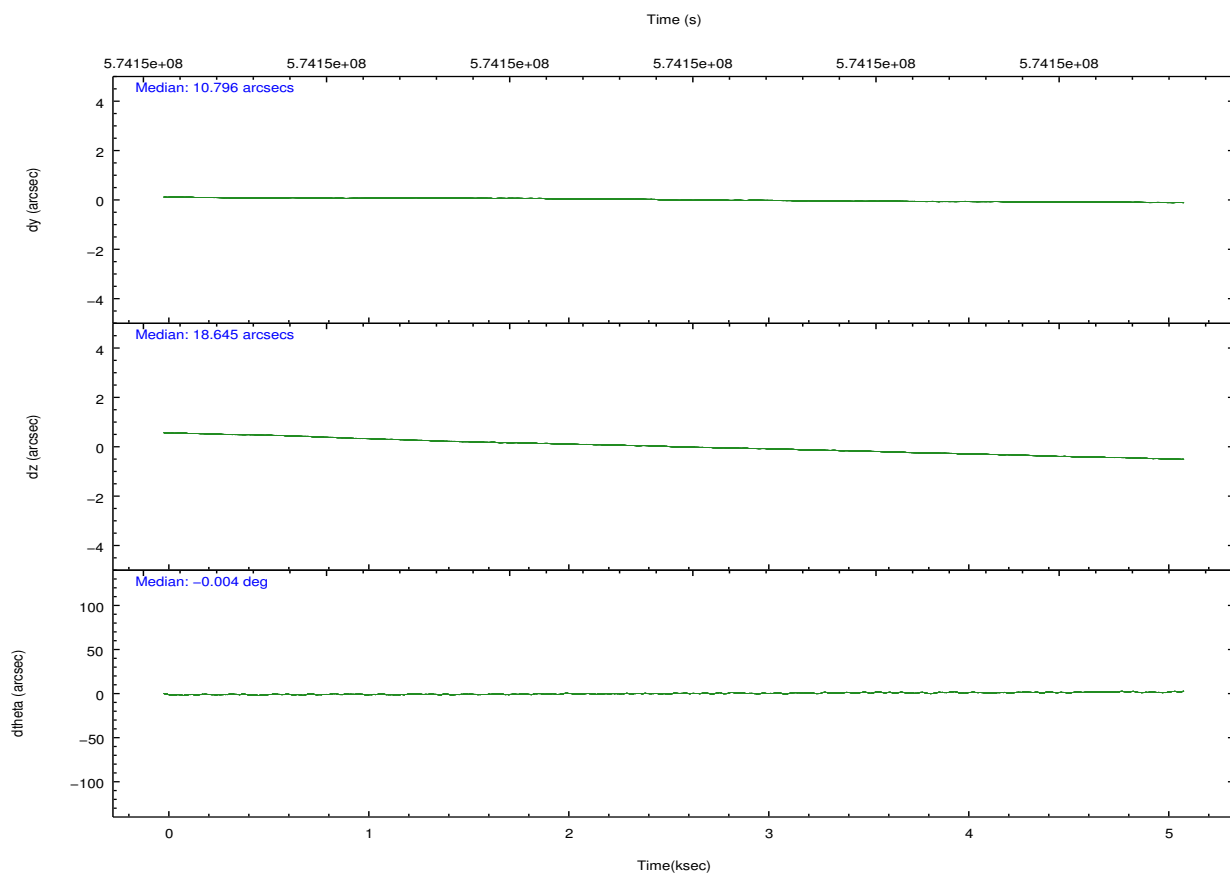
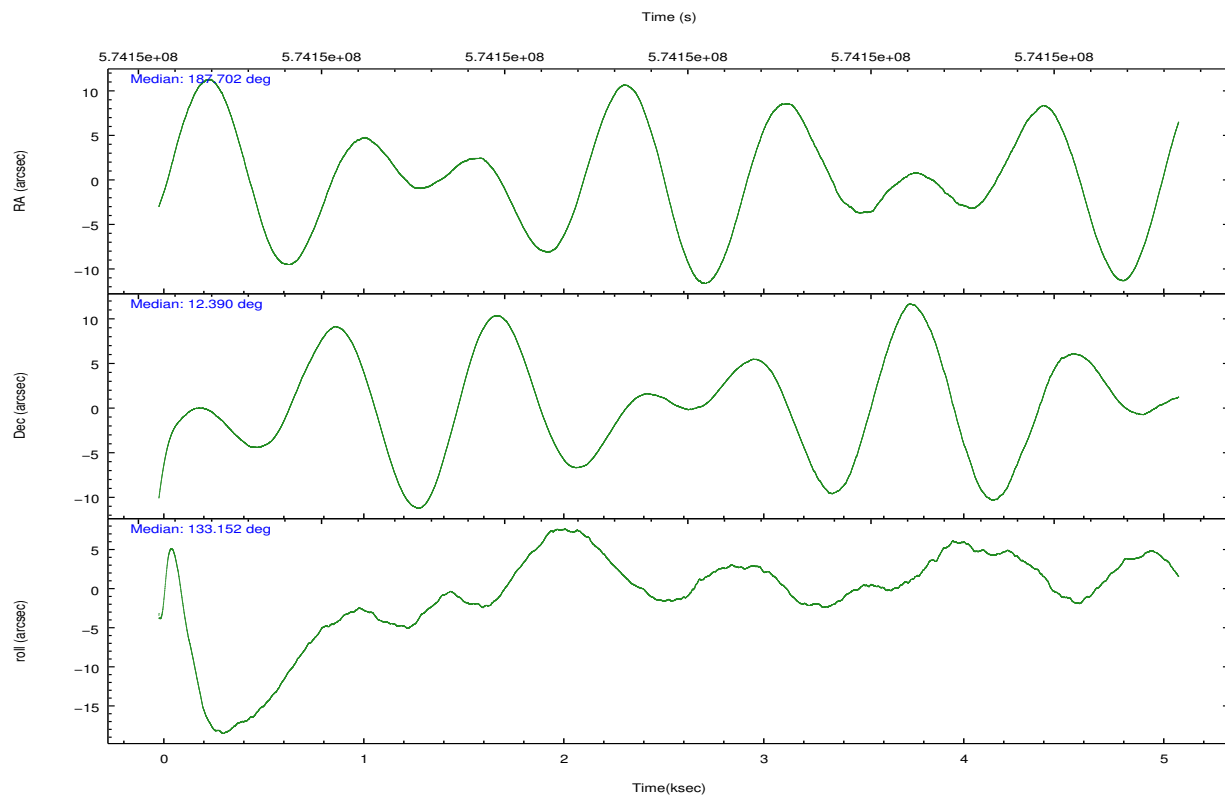
	ccd 7
grade 0 events	9398
	26%
grade 1 events	17
	0%
grade 2 events	8548
	23%
grade 3 events	4023
	11%
grade 4 events	3854
	10%
grade 5 events	719
	2%
grade 6 events	7268
	20%
grade 7 events	2073
	5%

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	187.728644	187.7016619504624	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.382902	12.39046863630918	Subarray start row	449	449
[deg] Pointing Roll	132.994744	133.1571474131189	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)	574146528.184000	574145153.72521			
Observation start date	2016-03-12T05:07:40	2016-03-12T04:45:53			
[s] Observation end time (MET)	574151442.184000	574151668.11308			
Observation end date	2016-03-12T06:29:34	2016-03-12T06:34:28			
Read mode	TIMED	TIMED			

2.3 Aspect



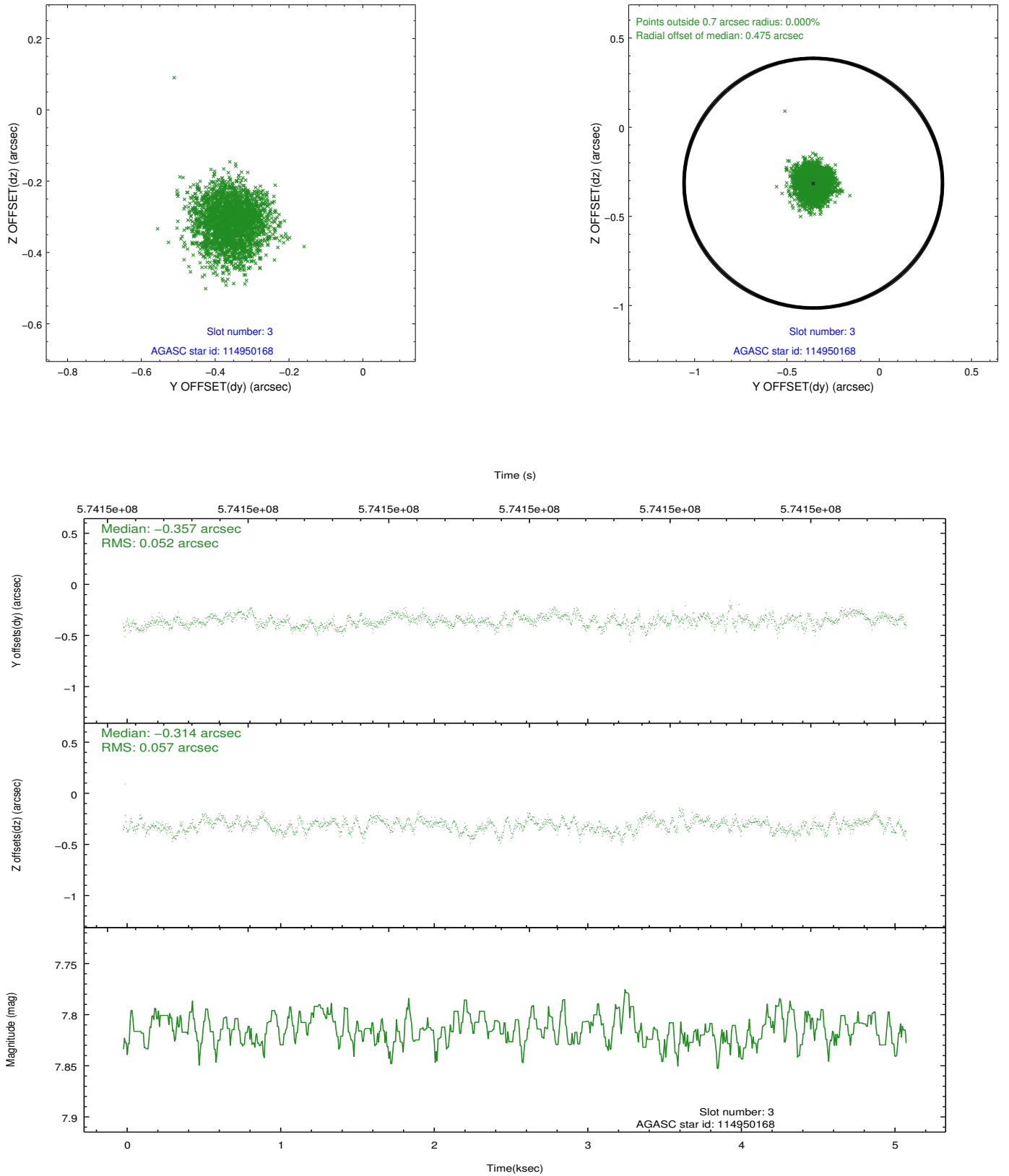


Slot Statistics

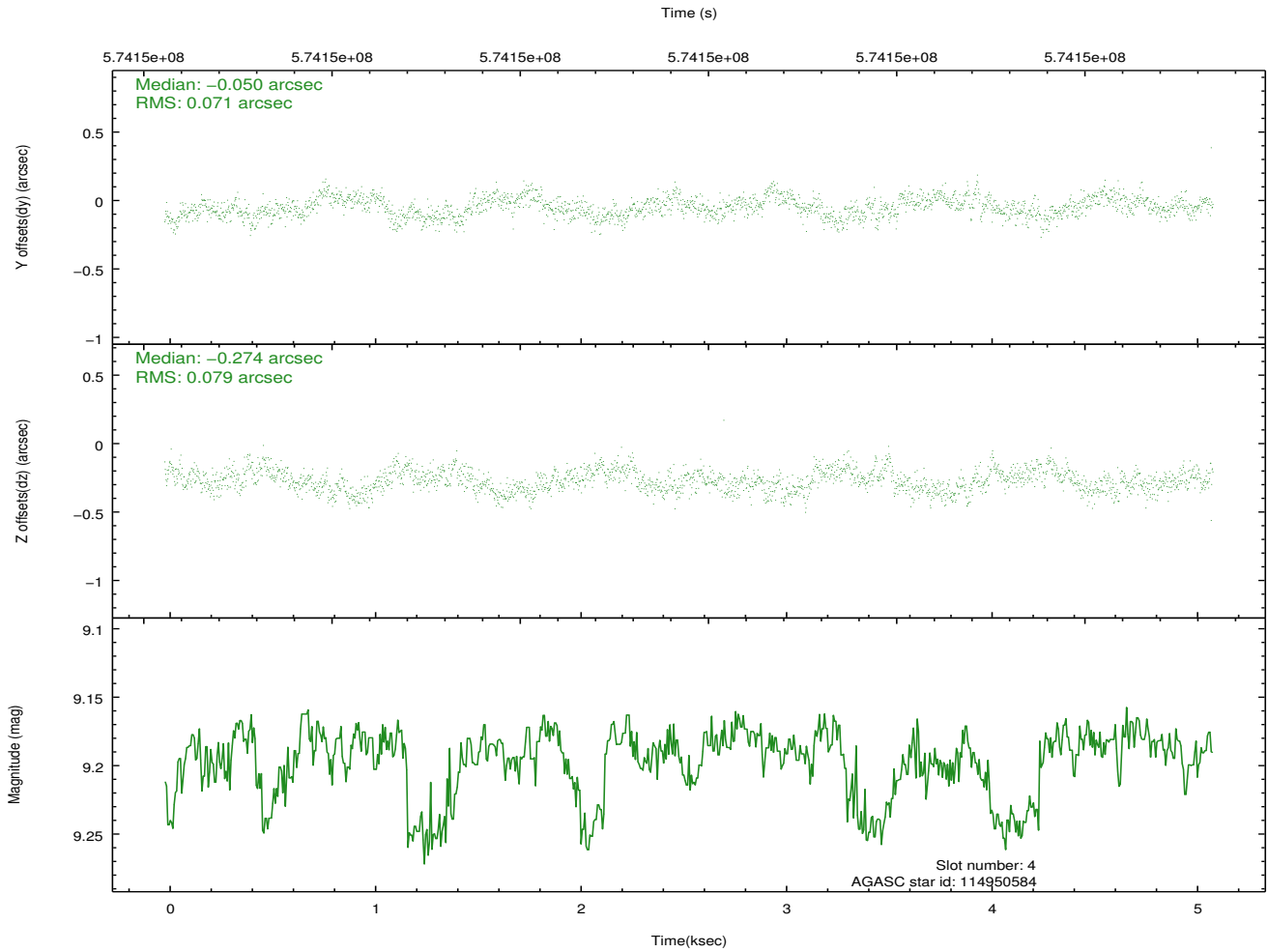
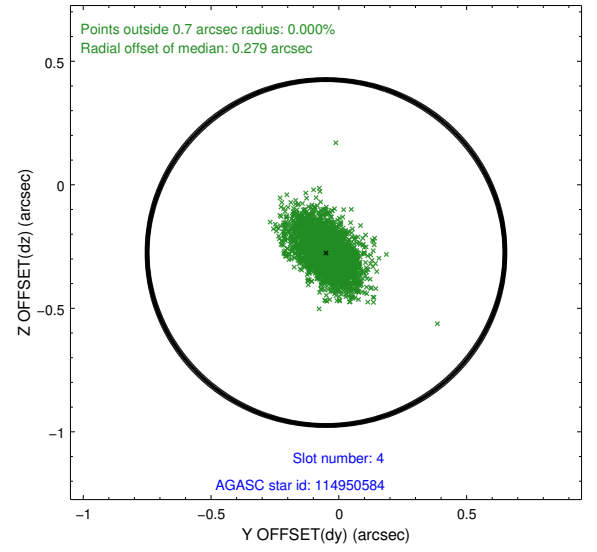
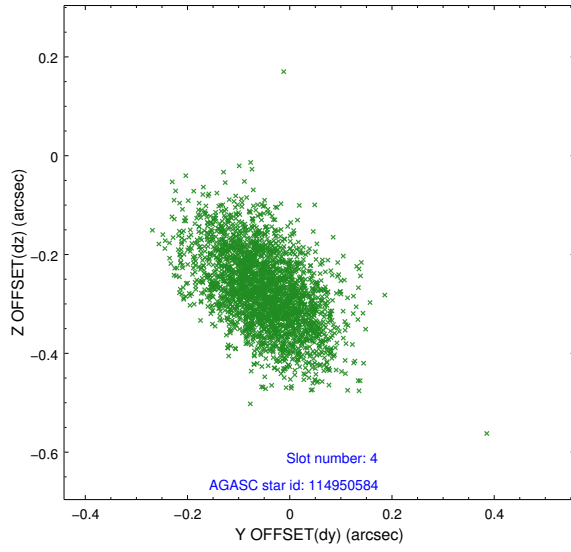
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	1244	-0.137	-0.088	0.013	0.022	0.000000	0.000000	-763.80	-1740.17
1	FID		ACIS-S-4	7.21	1244	0.354	0.090	0.008	0.015	0.000000	0.000000	2149.43	167.24
2	FID		ACIS-S-5	7.23	1244	-0.247	0.006	0.012	0.020	0.000000	0.000000	-1815.22	162.20
3	GUIDE	used	114950168	7.81	2487	-0.357	-0.314	0.083	0.128	187.143398	12.117441	706.86	2156.76
4	GUIDE	used	114950584	9.19	2484	-0.050	-0.274	0.111	0.186	187.487323	11.827248	-882.40	1986.77
5	GUIDE	used	114952792	9.43	2489	-0.116	-0.307	0.146	0.235	187.070263	12.344747	1480.68	1787.44
6	GUIDE	used	114952824	8.55	2489	-0.106	0.312	0.128	0.201	187.703904	12.486727	333.81	-189.70
7	GUIDE	used	114955056	8.32	2487	0.641	0.577	0.088	0.150	187.914001	12.127854	-1115.09	149.32

2.4 Star Slots

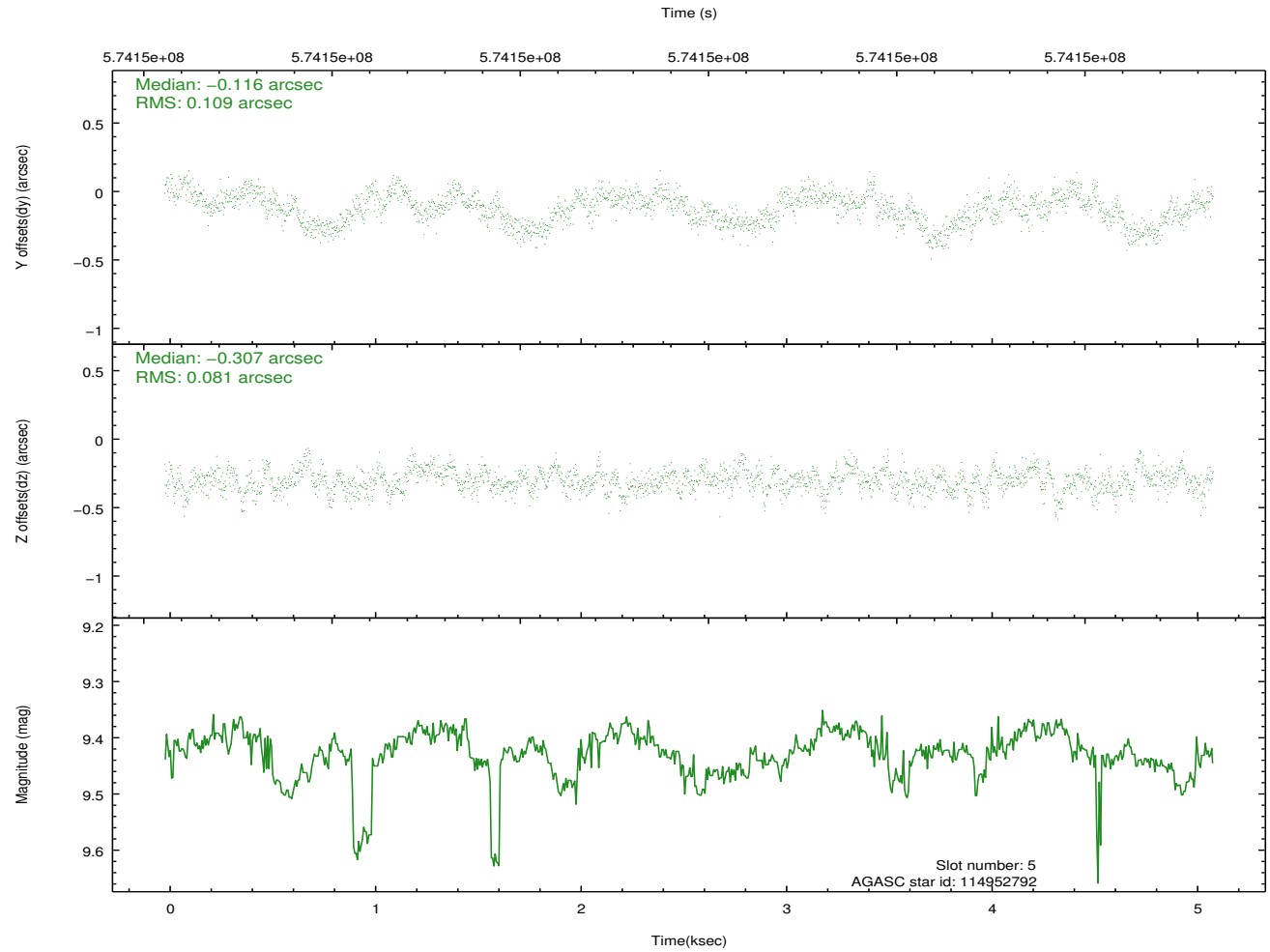
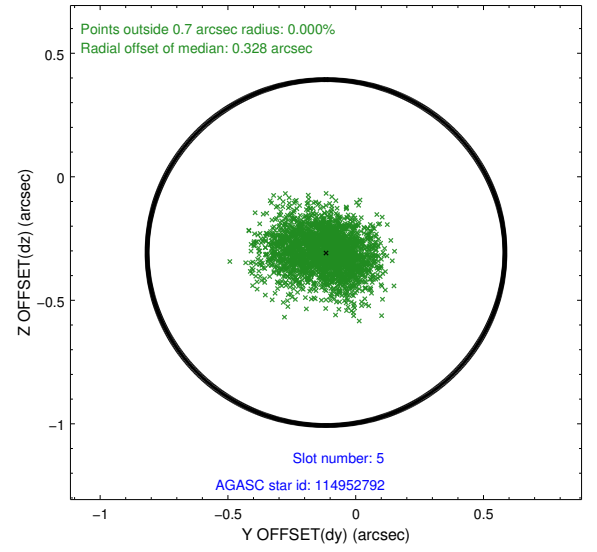
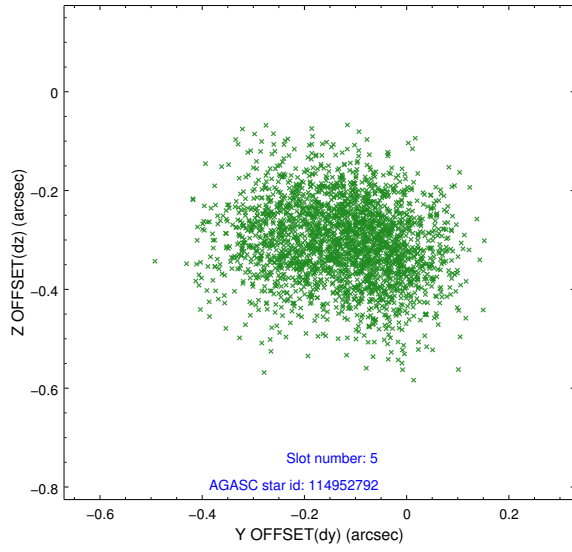
2.4.1 Slot 3



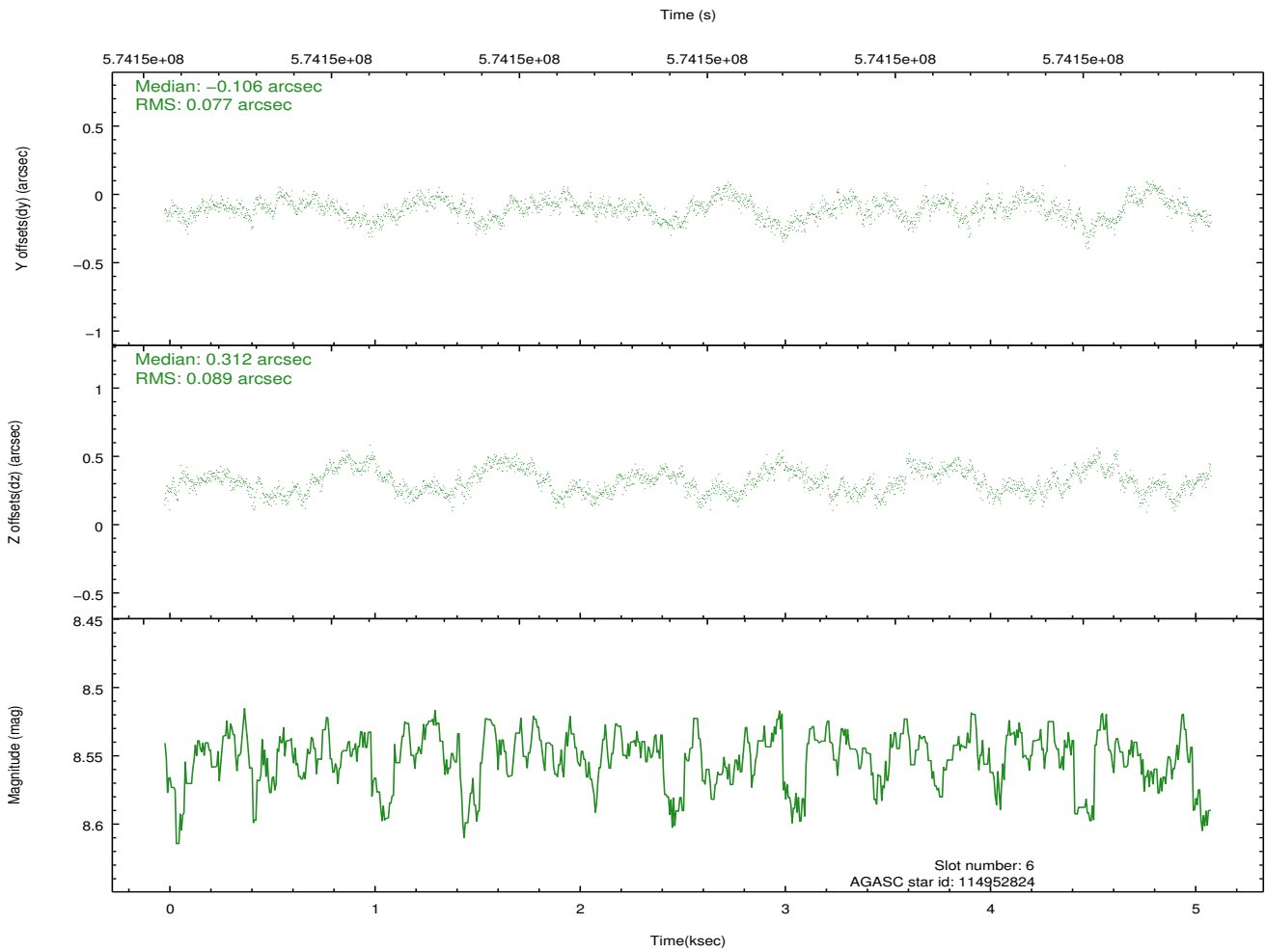
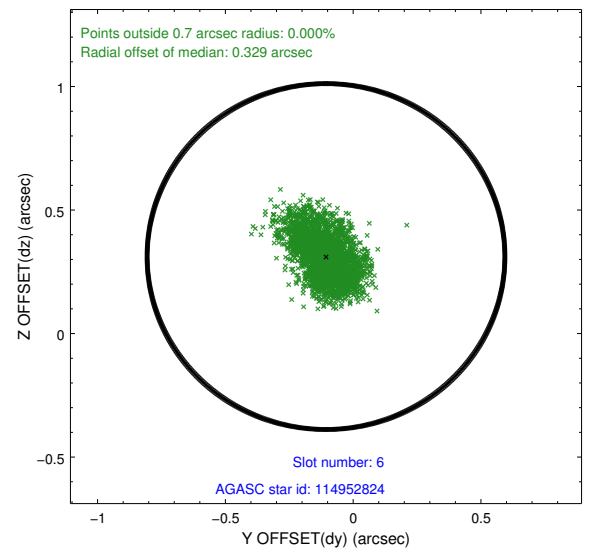
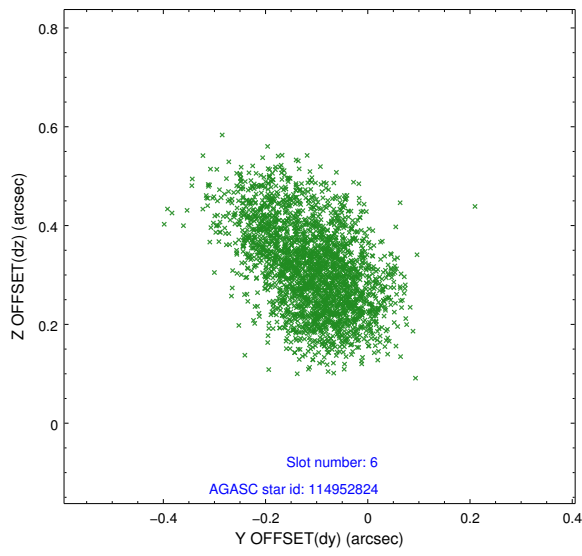
2.4.2 Slot 4



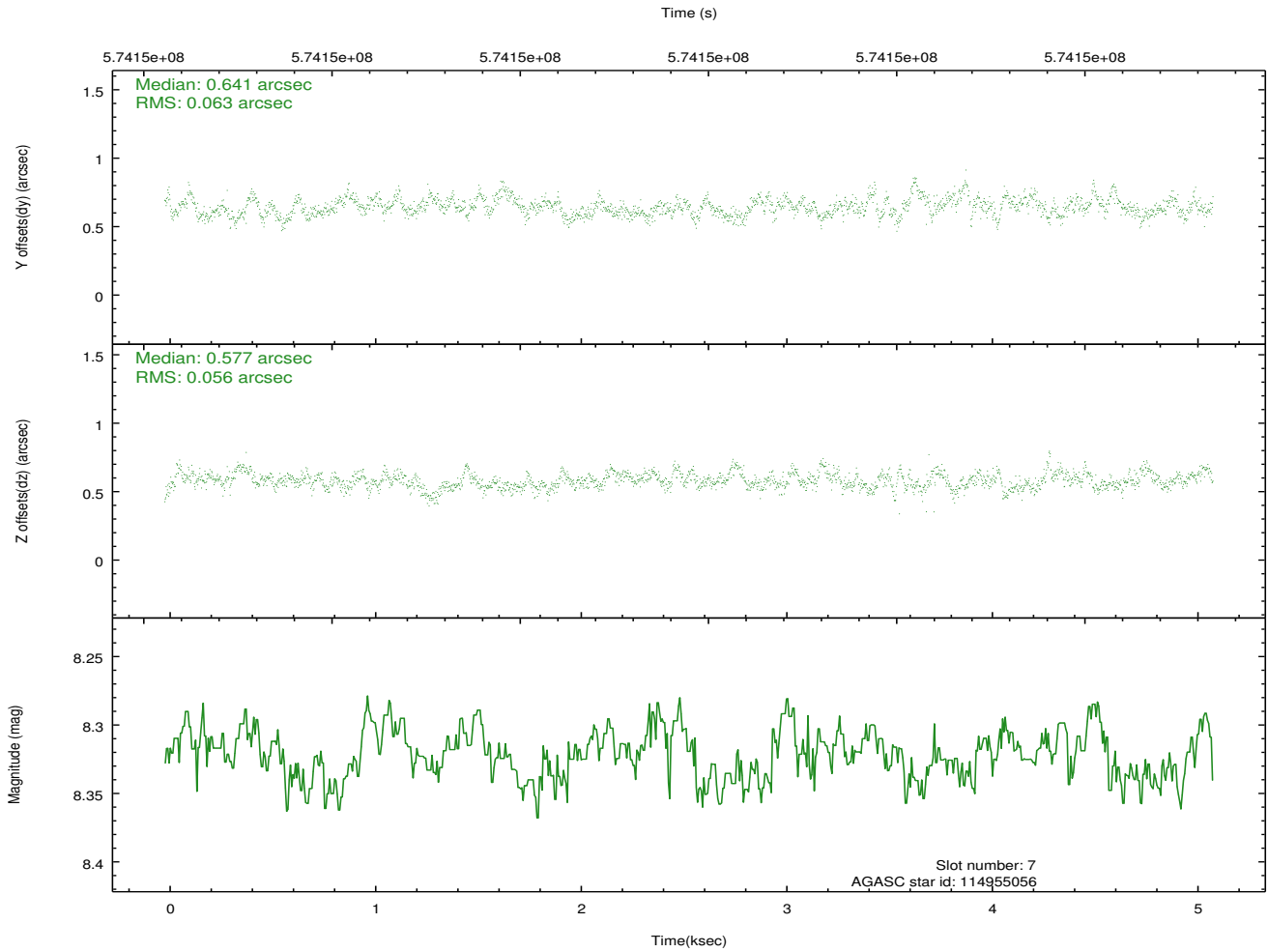
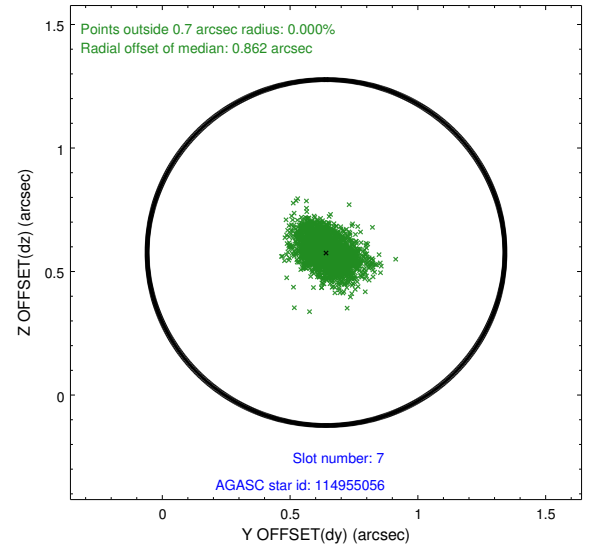
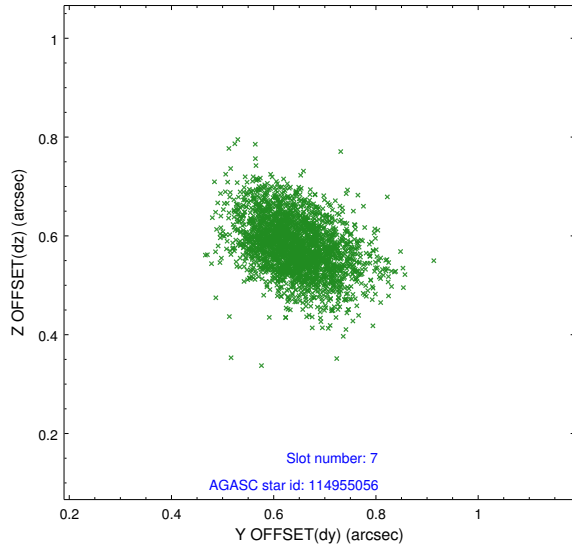
2.4.3 Slot 5



2.4.4 Slot 6

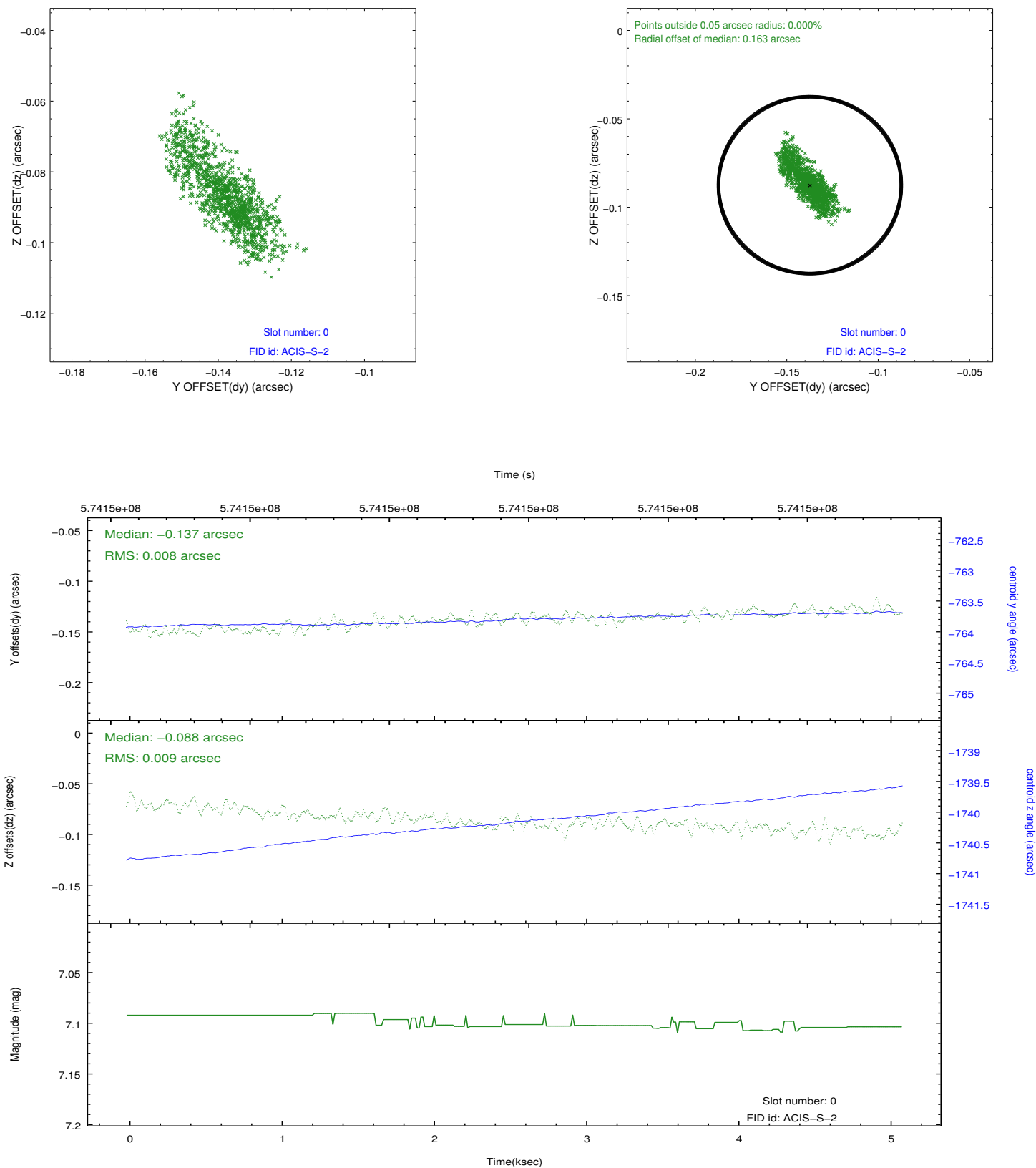


2.4.5 Slot 7

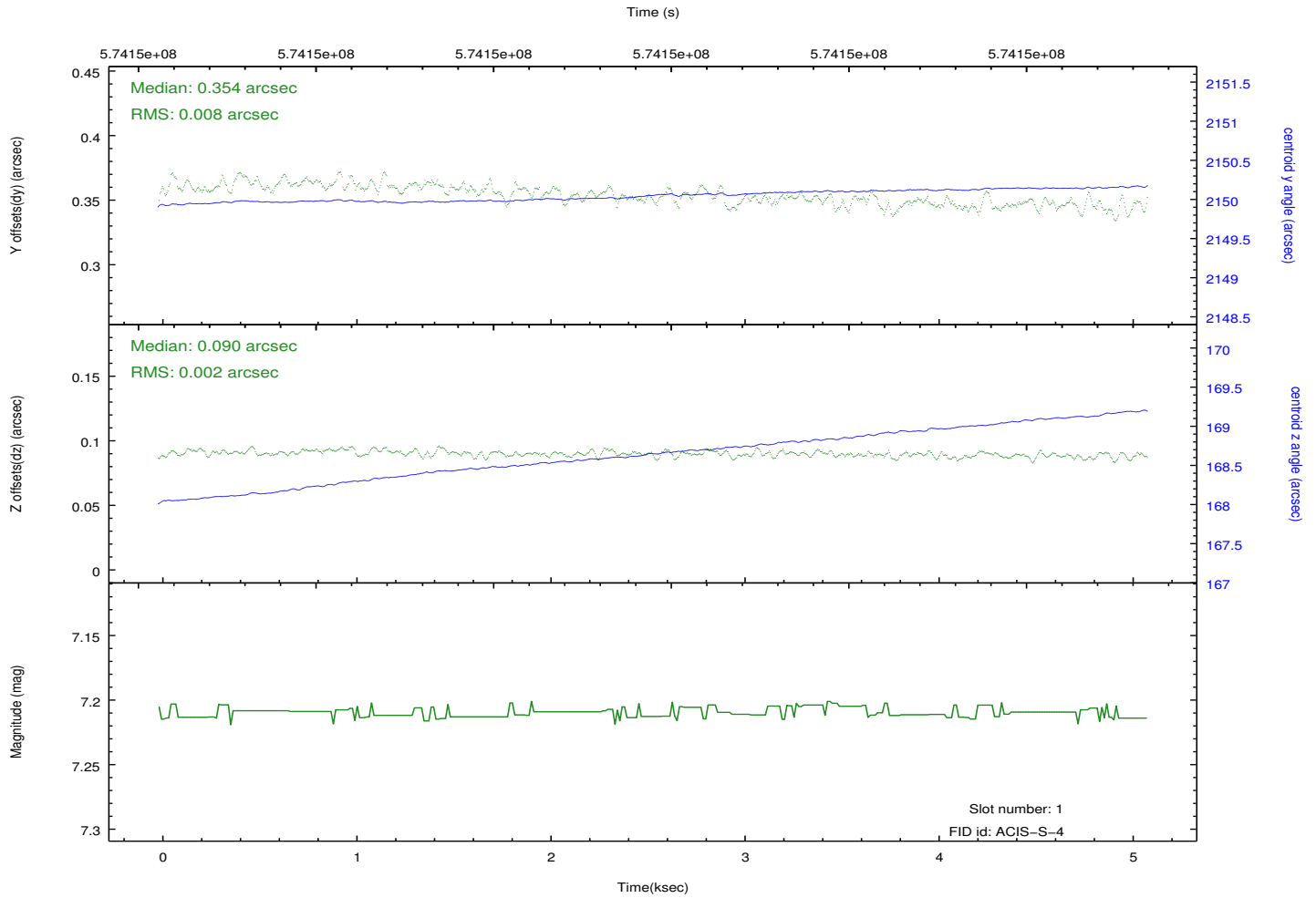
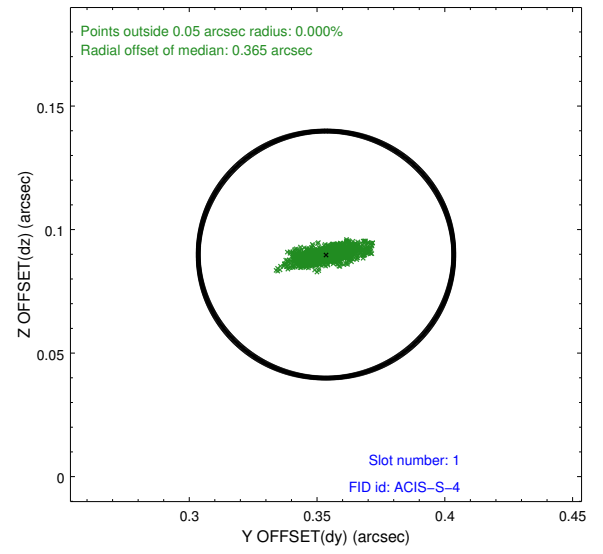
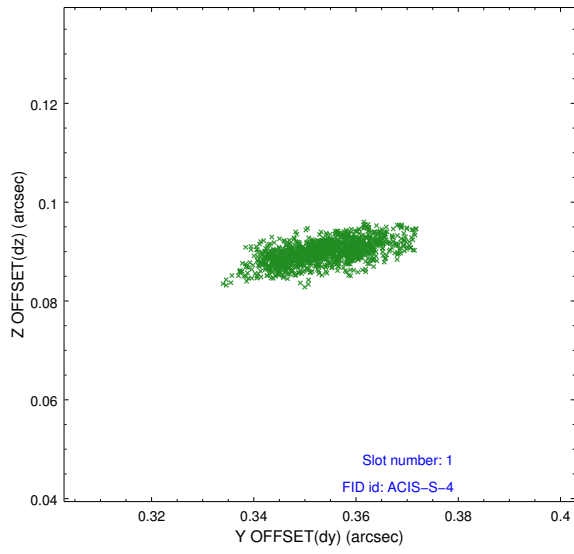


2.5 FID Slots

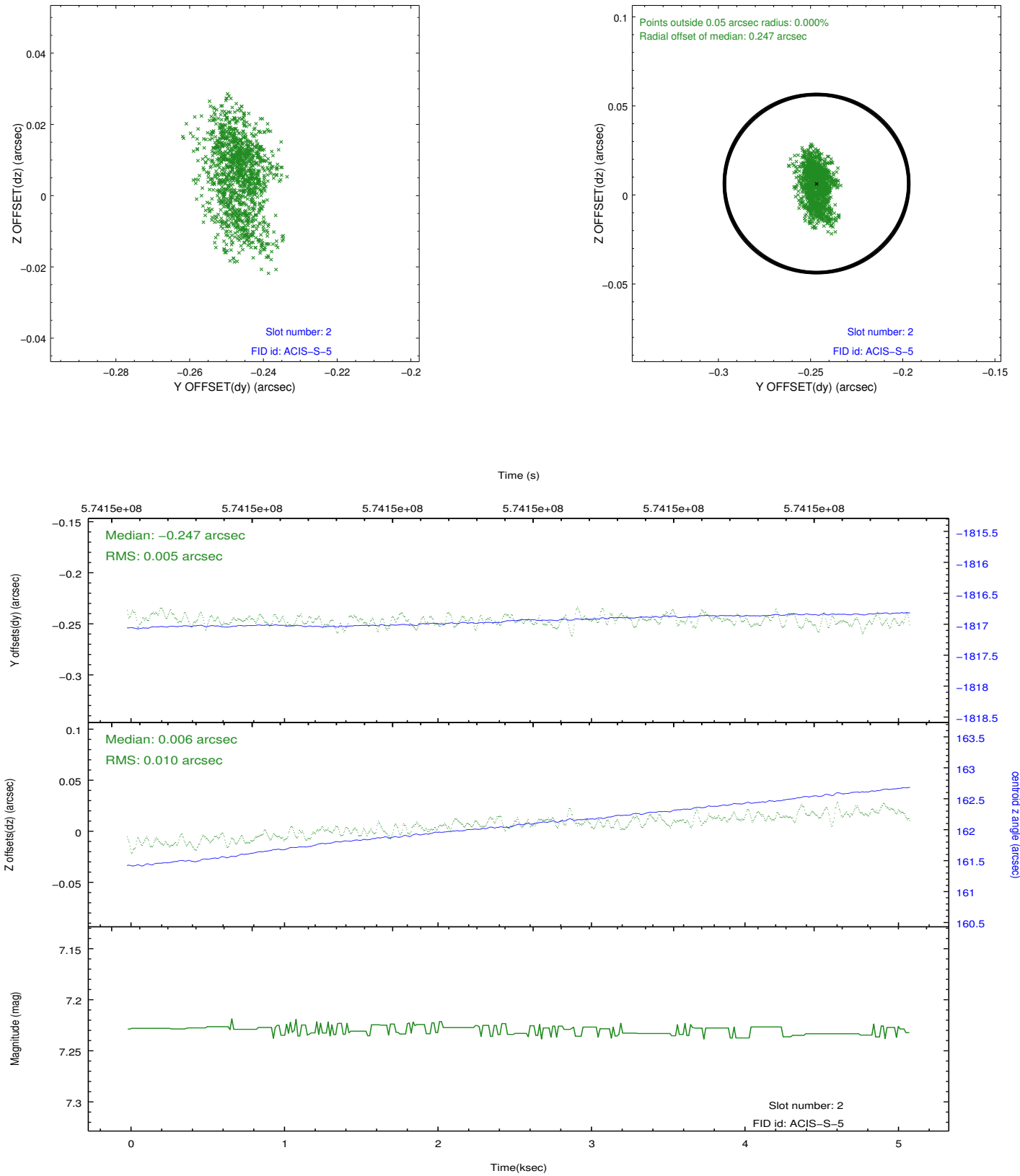
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.03.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9843997027874

A.2 Comments