

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8513 - L2 Version 3
Chandra X-Ray Center

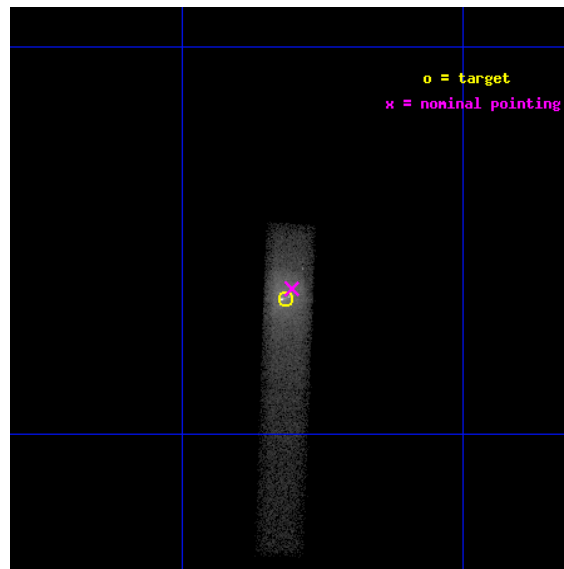
L2 Processing Date : Apr 20 2012

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

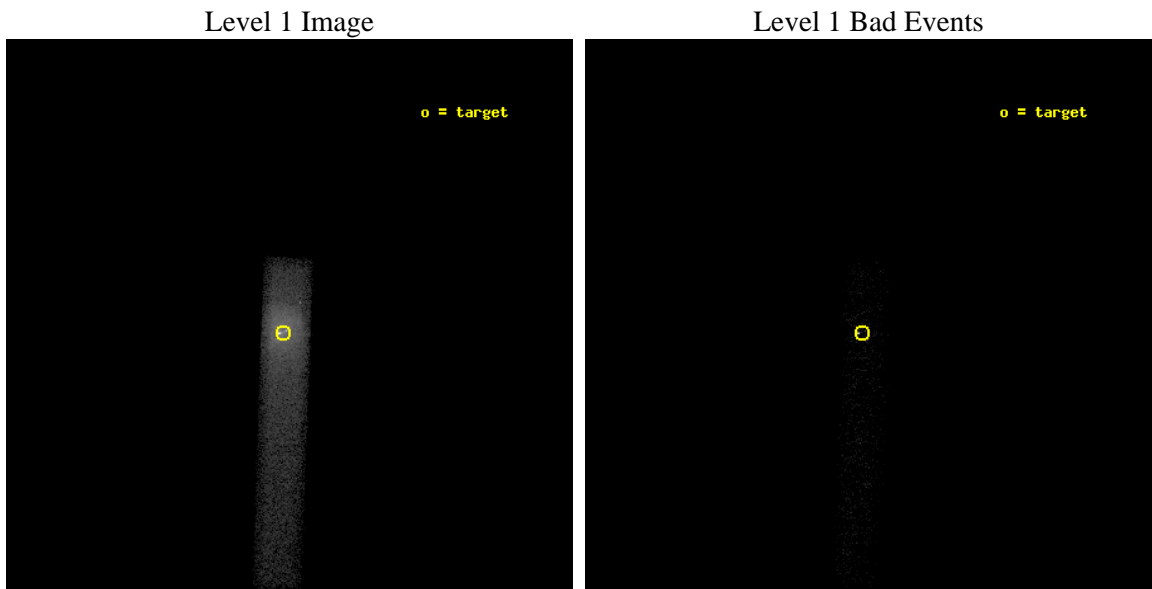
seq_num	701579	Sequence number
obs_id	8513	Observation id
title	Short Timescale X-ray Variability in the M87 Jet: the TeV connection	
observer	Dr. Daniel Harris	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.70128247913	Nominal RA [deg]
dec_nom	12.39566130657	Nominal Dec [deg]
roll_nom	92.035209217978	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5182.799691081	Sum of GTIs [s]
livetime	4700.5257492119	Livetime [s]
ontime7	5182.799691081	Sum of GTIs [s]
l2events	57977	Number of level 2 events



2 OBI

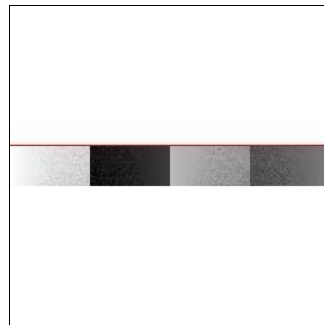
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5182.799691081	Sum of GTIs [s]
caldsver	4.4.9	 	ontime7	5182.799691081	Sum of GTIs [s]
date	2012-04-20T14:33:22	Date and time of file creation	l1events	68970	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

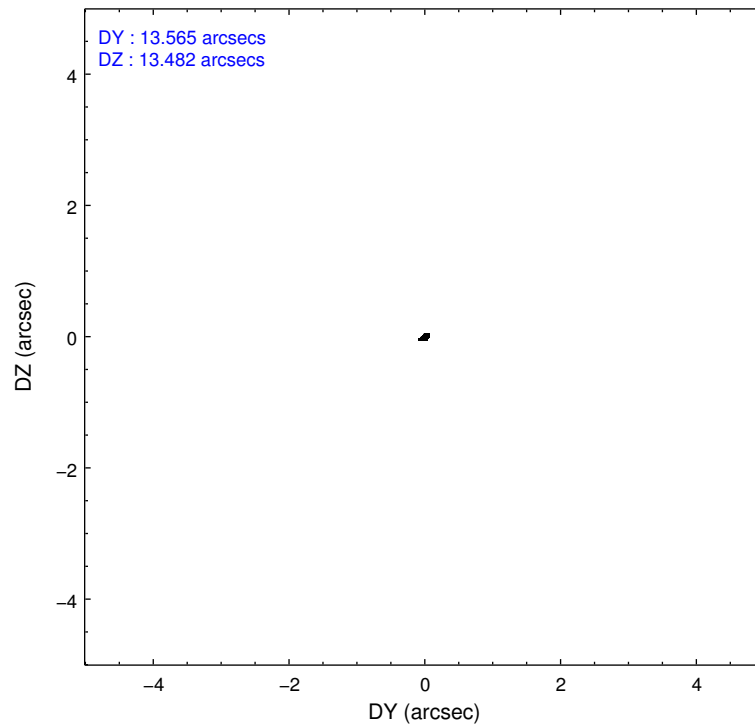
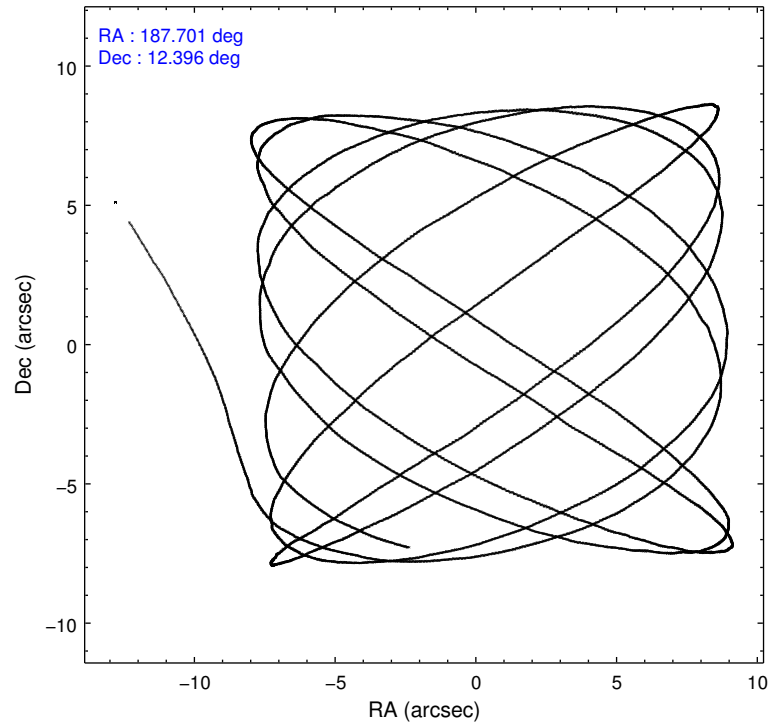
	ccd 7
level 1 events	68970
rejected events	10342
rejected %	14%

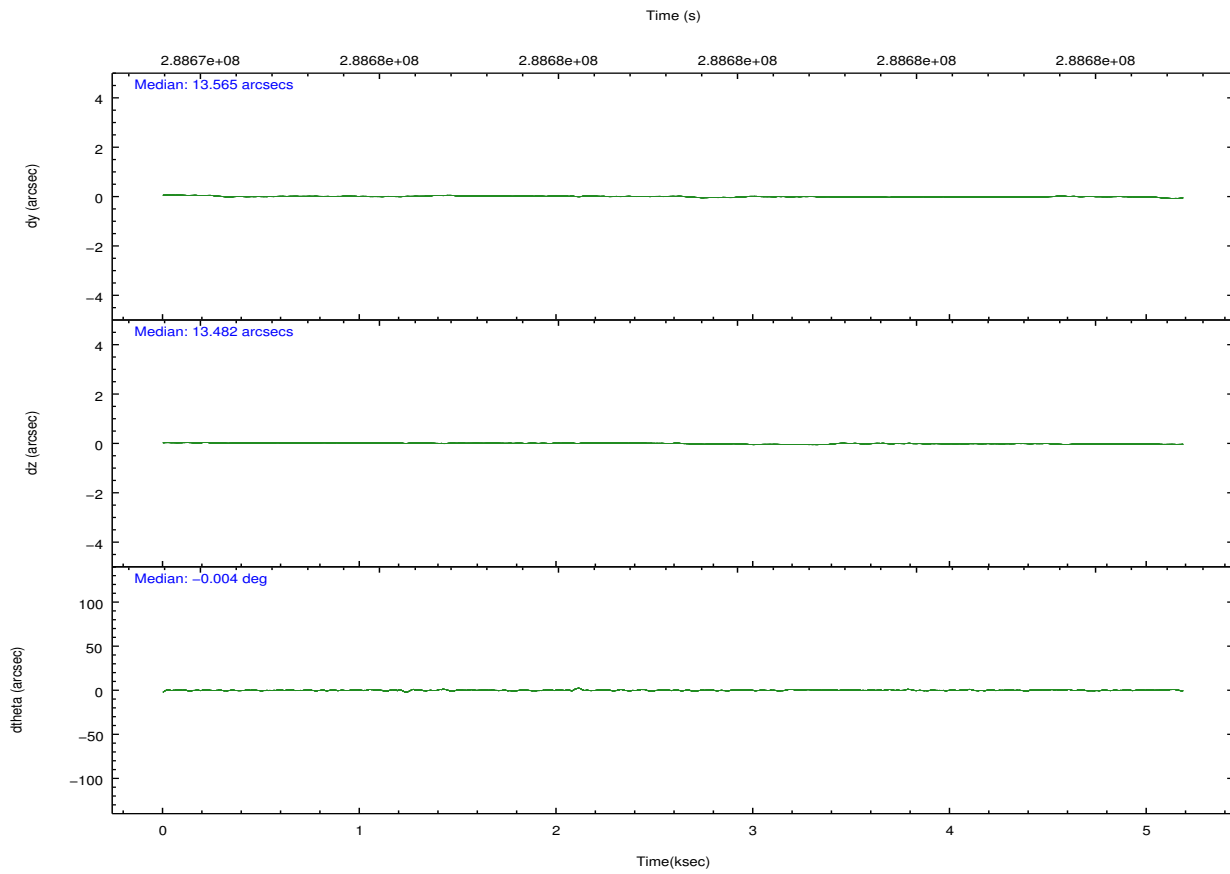
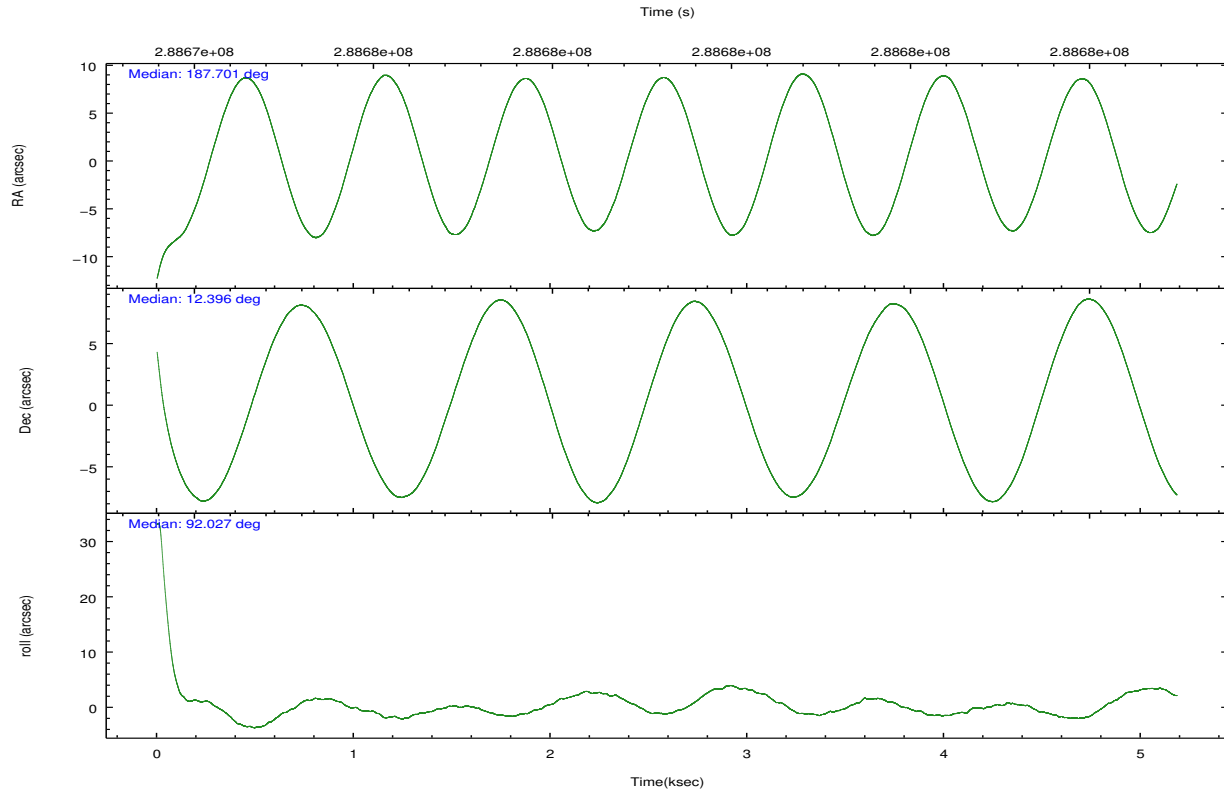
	ccd 7
grade 0 events	17432
	25%
grade 1 events	331
	0%
grade 2 events	15484
	22%
grade 3 events	7184
	10%
grade 4 events	6907
	10%
grade 5 events	2309
	3%
grade 6 events	13477
	19%
grade 7 events	5846
	8%

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	187.716587	187.7012824791294	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.372722	12.39566130657015	Subarray start row	449	449
[deg] Pointing Roll	91.875217	92.03520921797788	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)	288674234.184000	288673324.70193			
Observation start date	2007-02-24T03:16:09	2007-02-24T03:02:04			
[s] Observation end time (MET)	288679234.184000	288680160.42725			
Observation end date	2007-02-24T04:39:29	2007-02-24T04:56:00			
Read mode	TIMED	TIMED			

2.3 Aspect



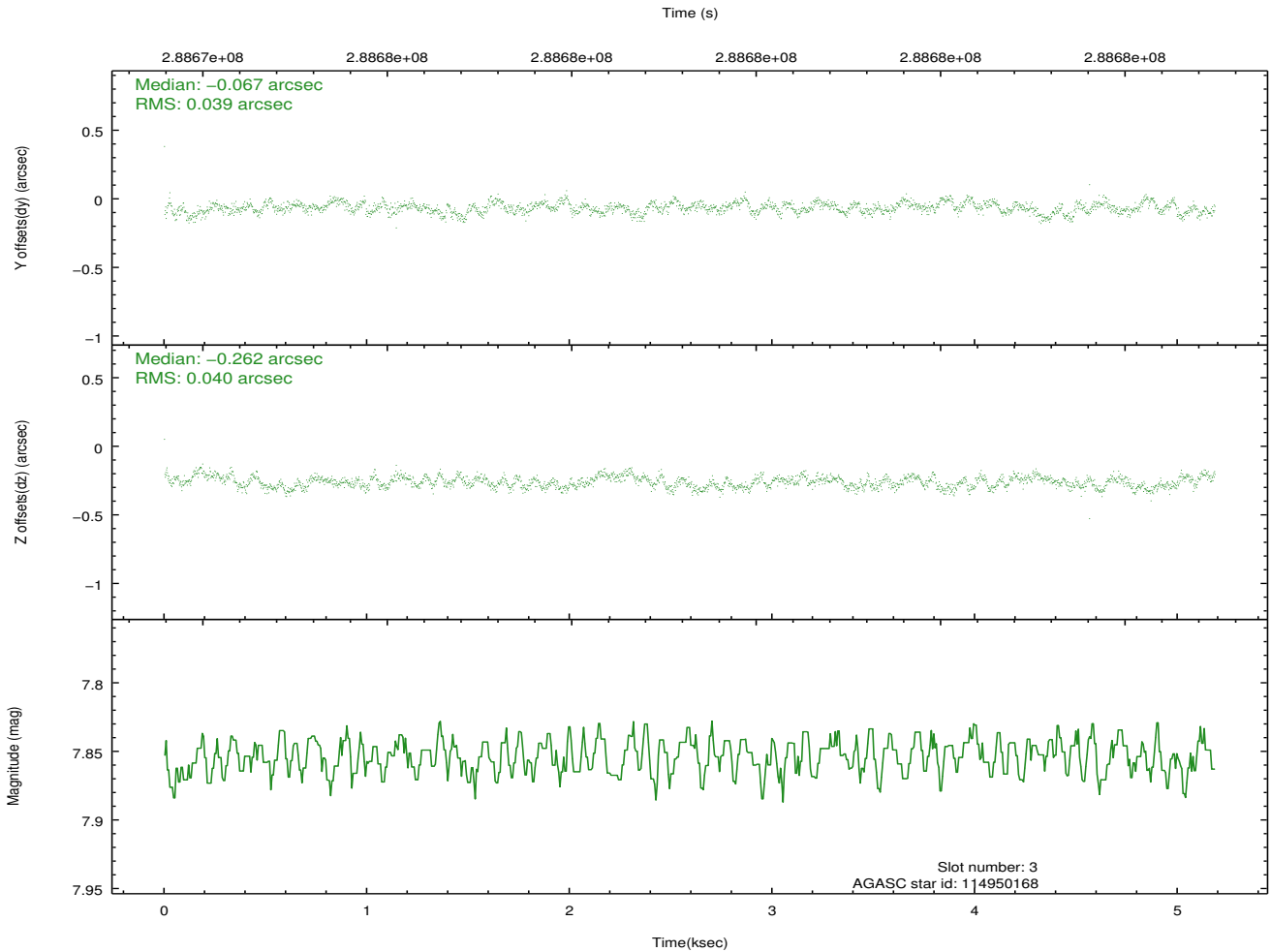
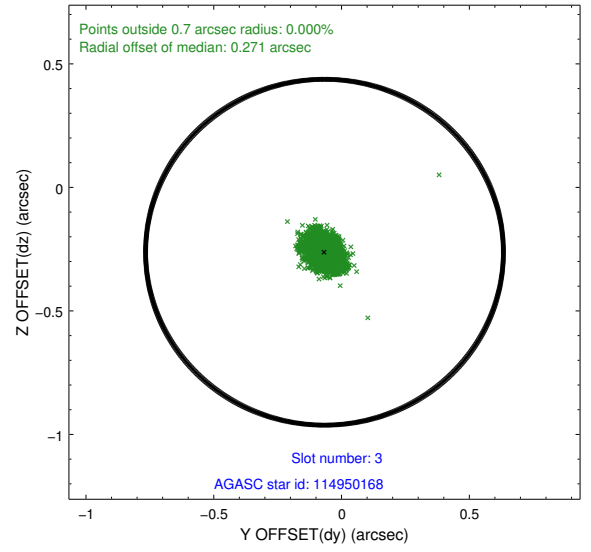
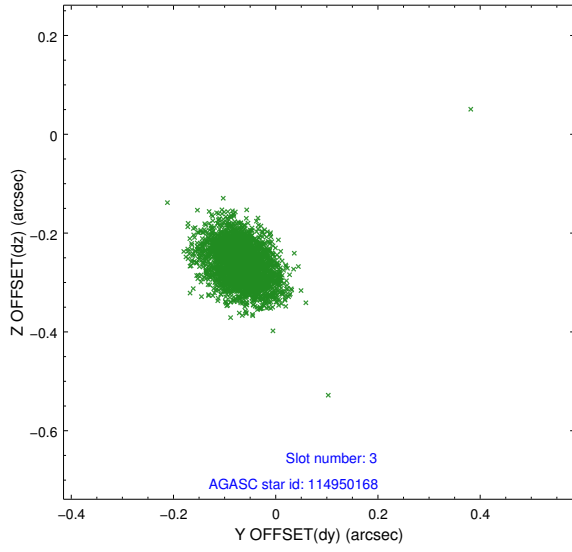


Slot Statistics

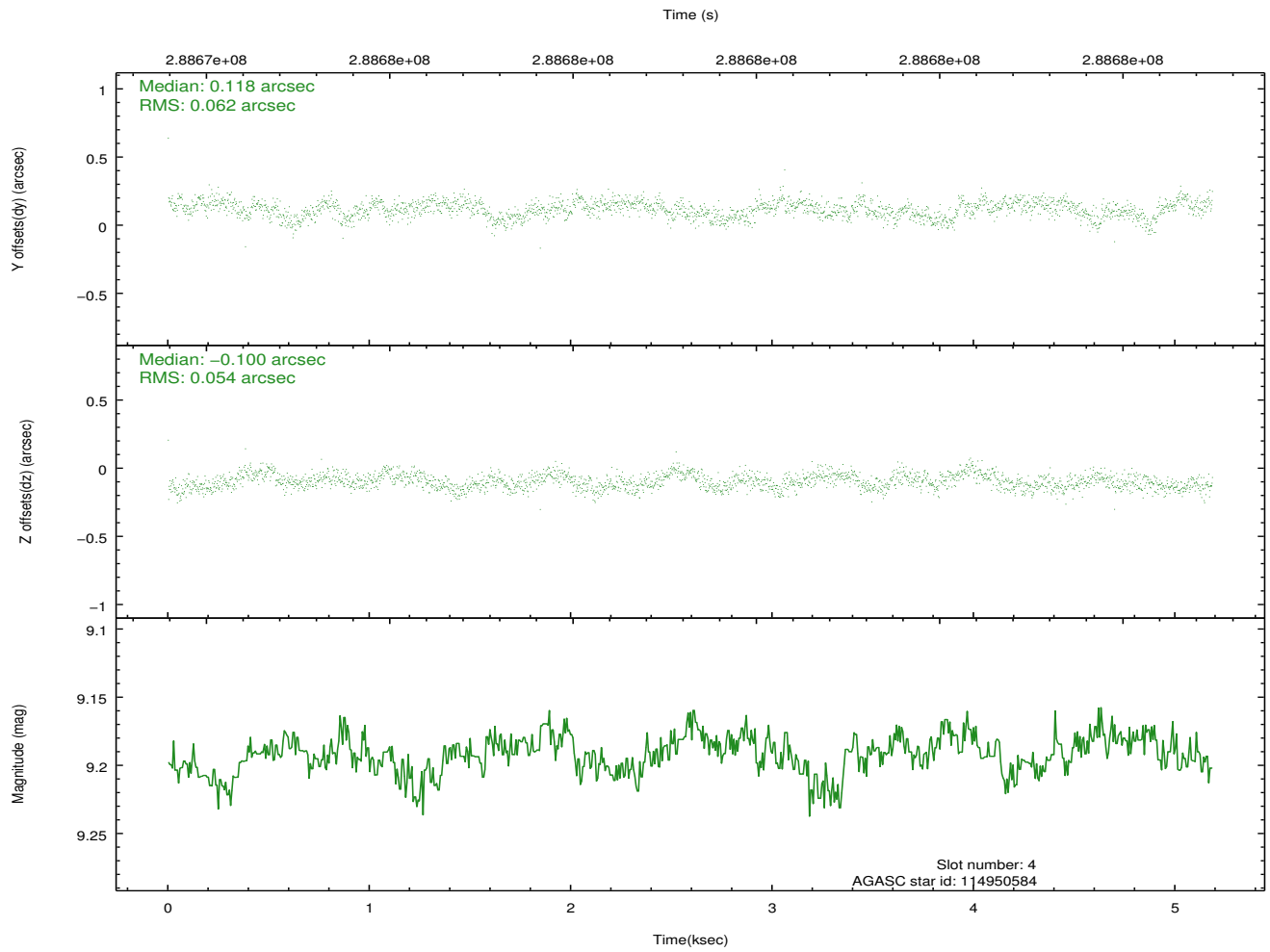
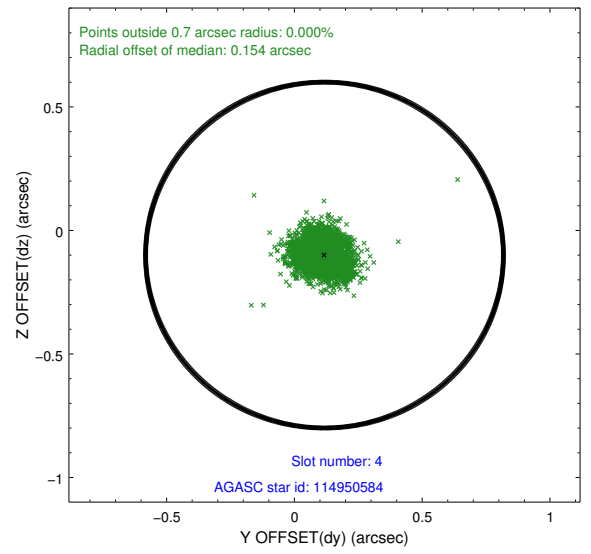
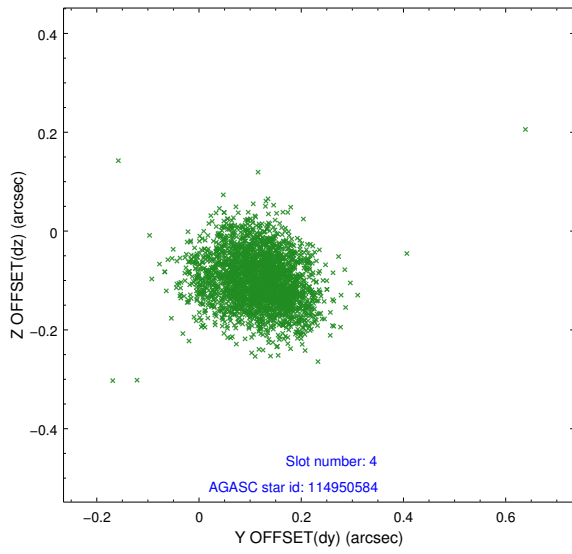
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1265	-0.039	-0.072	0.007	0.012	0.000000	0.000000	-766.54	-1734.83
1	FID	ACIS-S-4	7.20	1265	0.184	0.038	0.006	0.011	0.000000	0.000000	2146.43	172.53
2	FID	ACIS-S-5	7.23	1264	-0.176	0.042	0.007	0.012	0.000000	0.000000	-1818.01	167.56
3	GUIDE	114950168	7.85	2530	-0.067	-0.262	0.058	0.095	187.143398	12.117441	-850.64	2045.96
4	GUIDE	114950584	9.19	2528	0.118	-0.100	0.086	0.138	187.487323	11.827248	-1936.04	872.28
5	GUIDE	114952824	8.57	2530	-0.099	-0.190	0.063	0.103	187.703904	12.486727	410.99	31.54
6	GUIDE	114955056	8.33	2529	0.116	0.442	0.079	0.121	187.914001	12.127854	-902.92	-665.28
7	GUIDE	114955568	7.53	2529	-0.067	0.111	0.054	0.094	187.061916	11.826551	-1887.48	2369.50

2.4 Star Slots

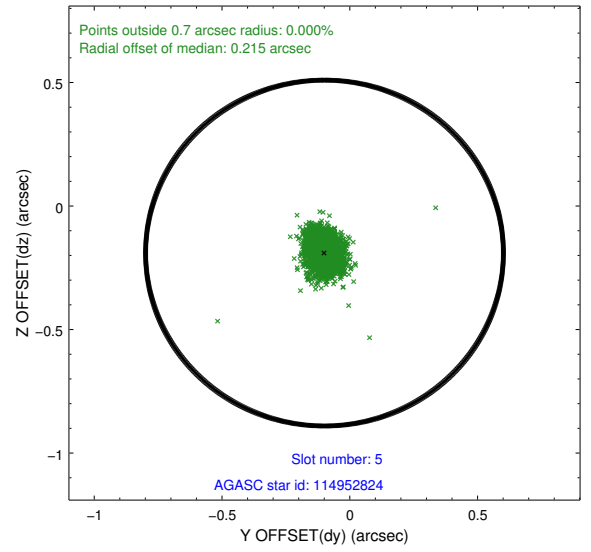
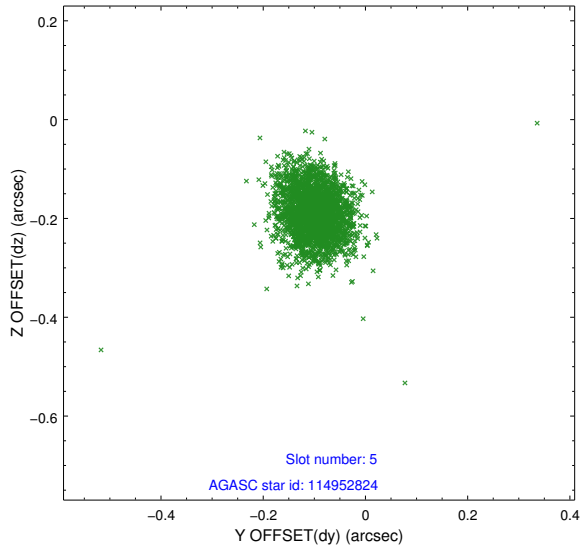
2.4.1 Slot 3



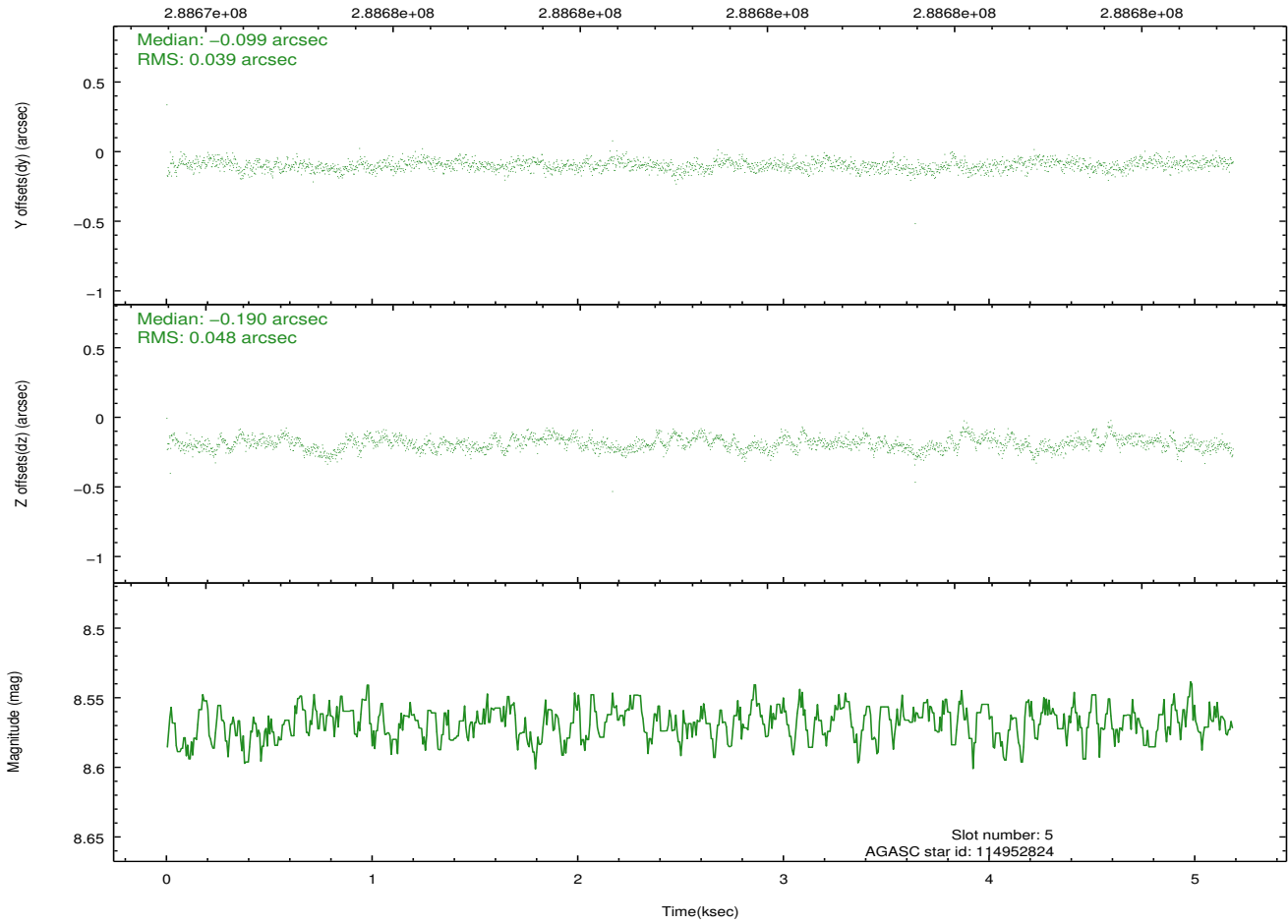
2.4.2 Slot 4



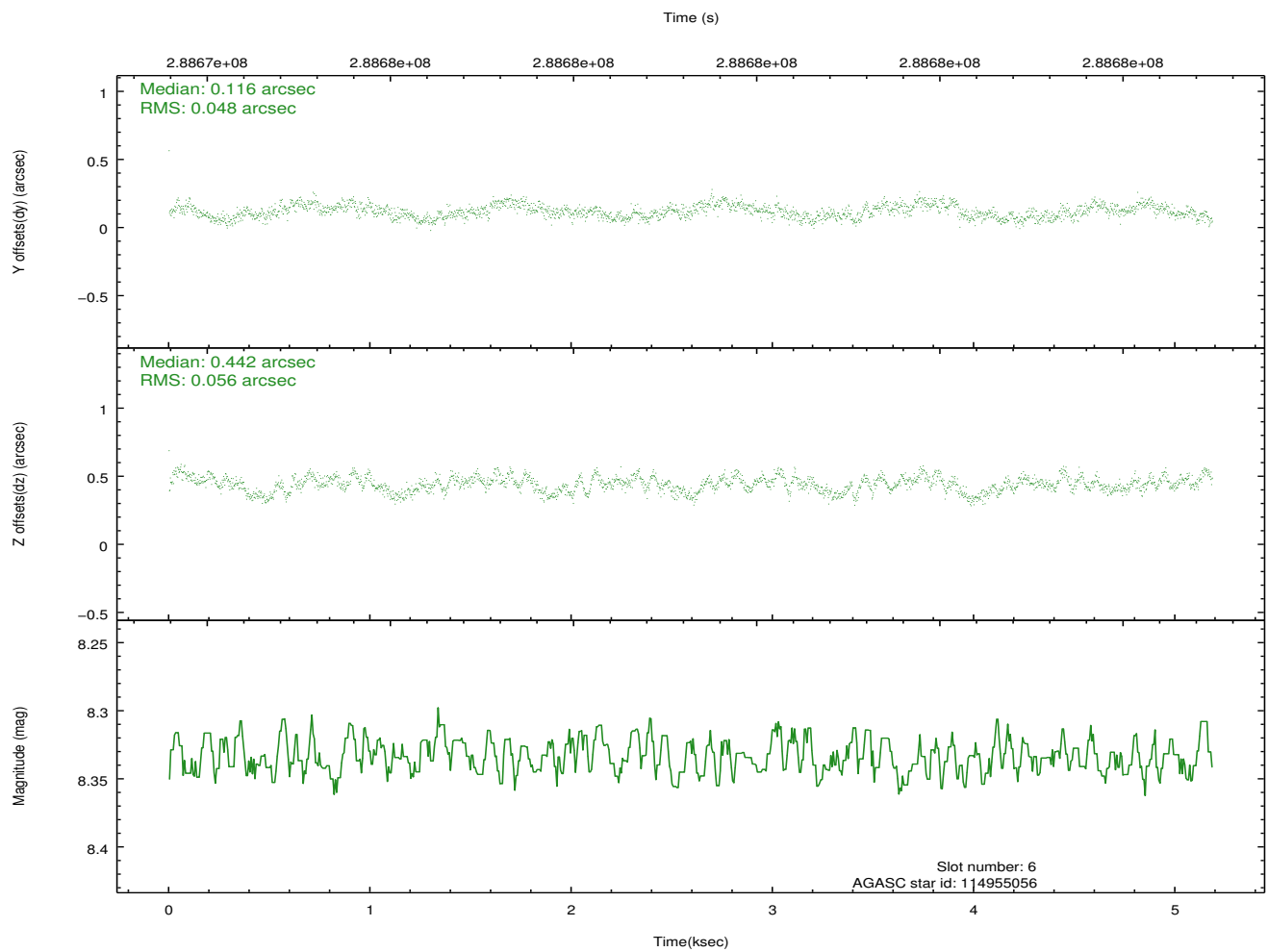
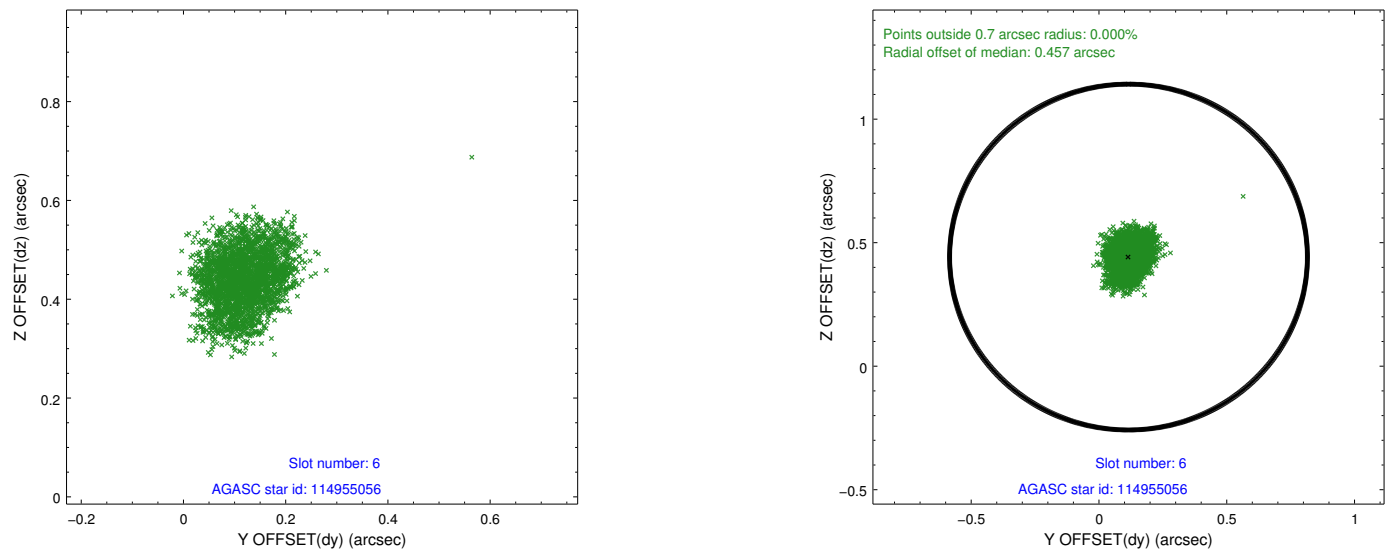
2.4.3 Slot 5



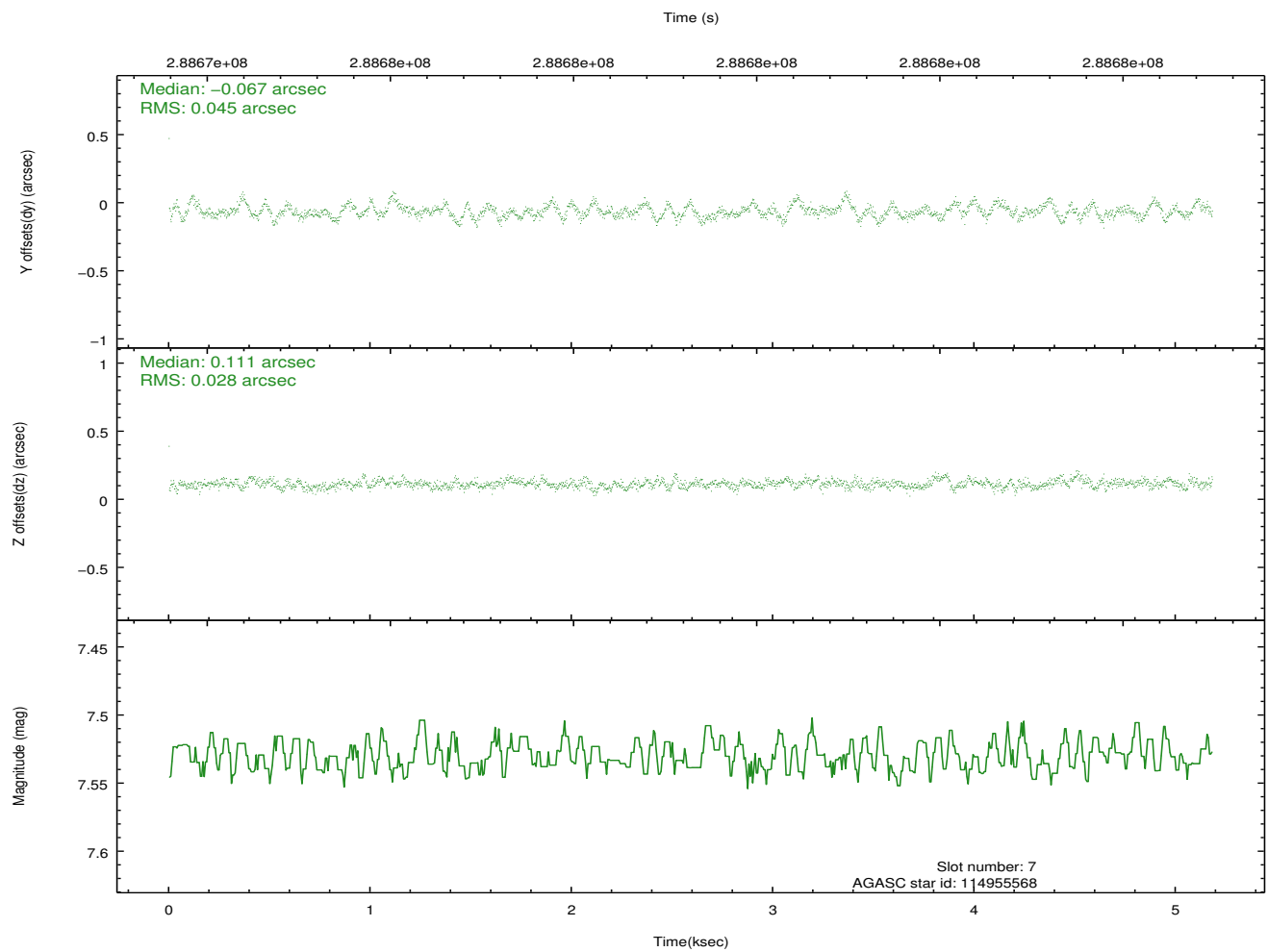
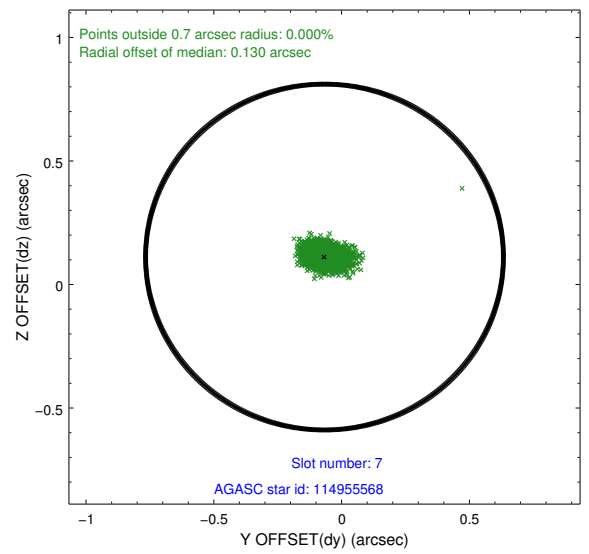
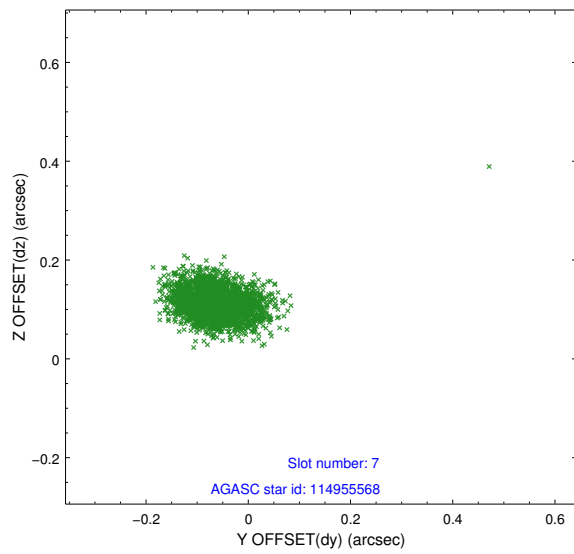
Time (s)



2.4.4 Slot 6

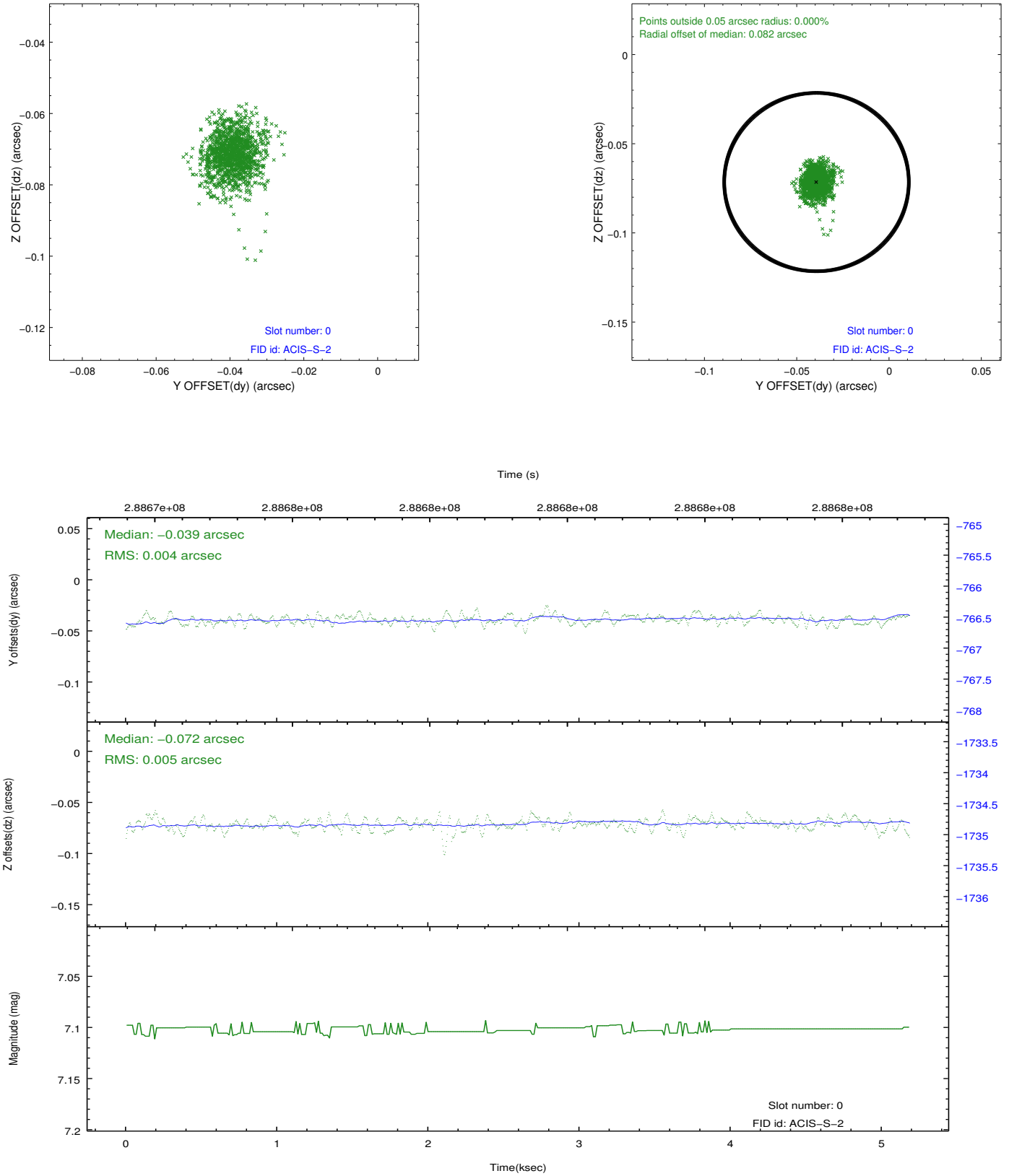


2.4.5 Slot 7

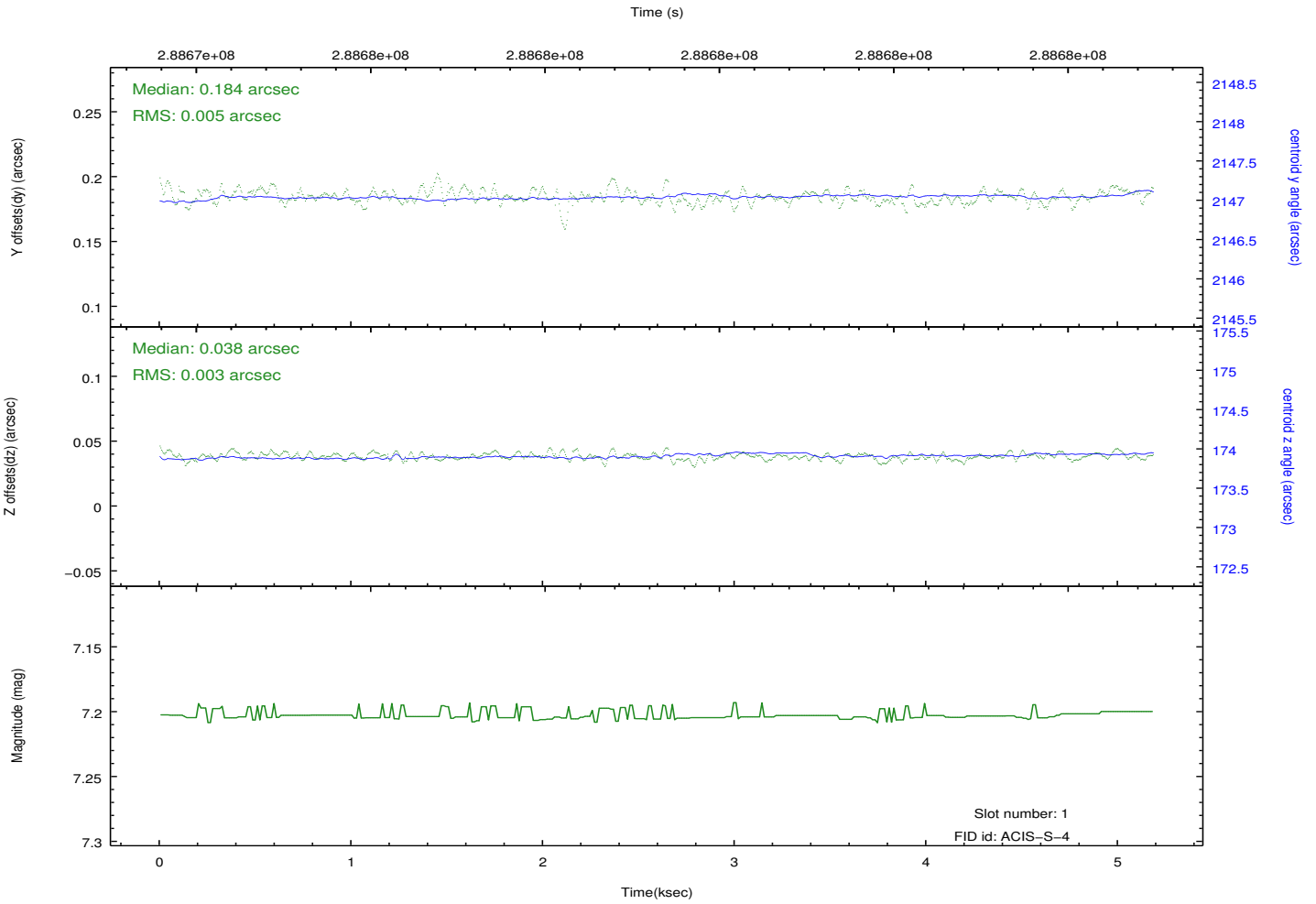
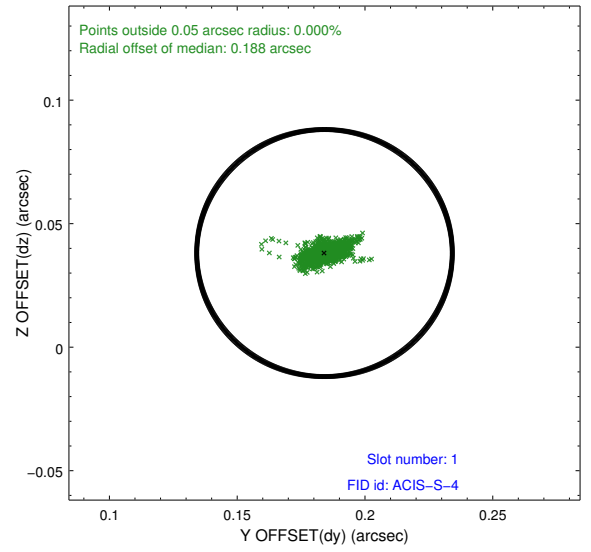
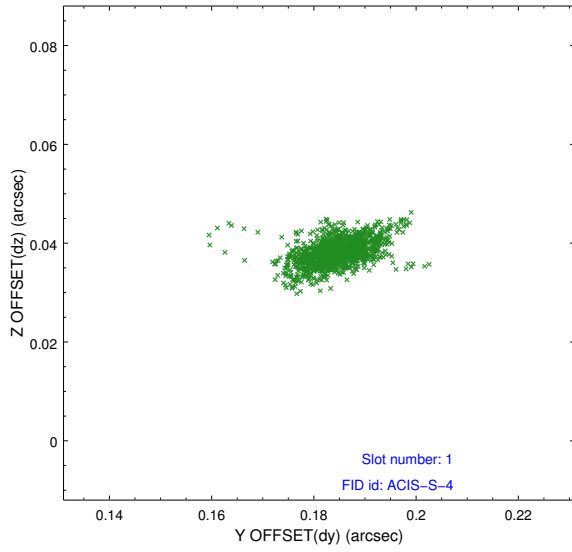


2.5 FID Slots

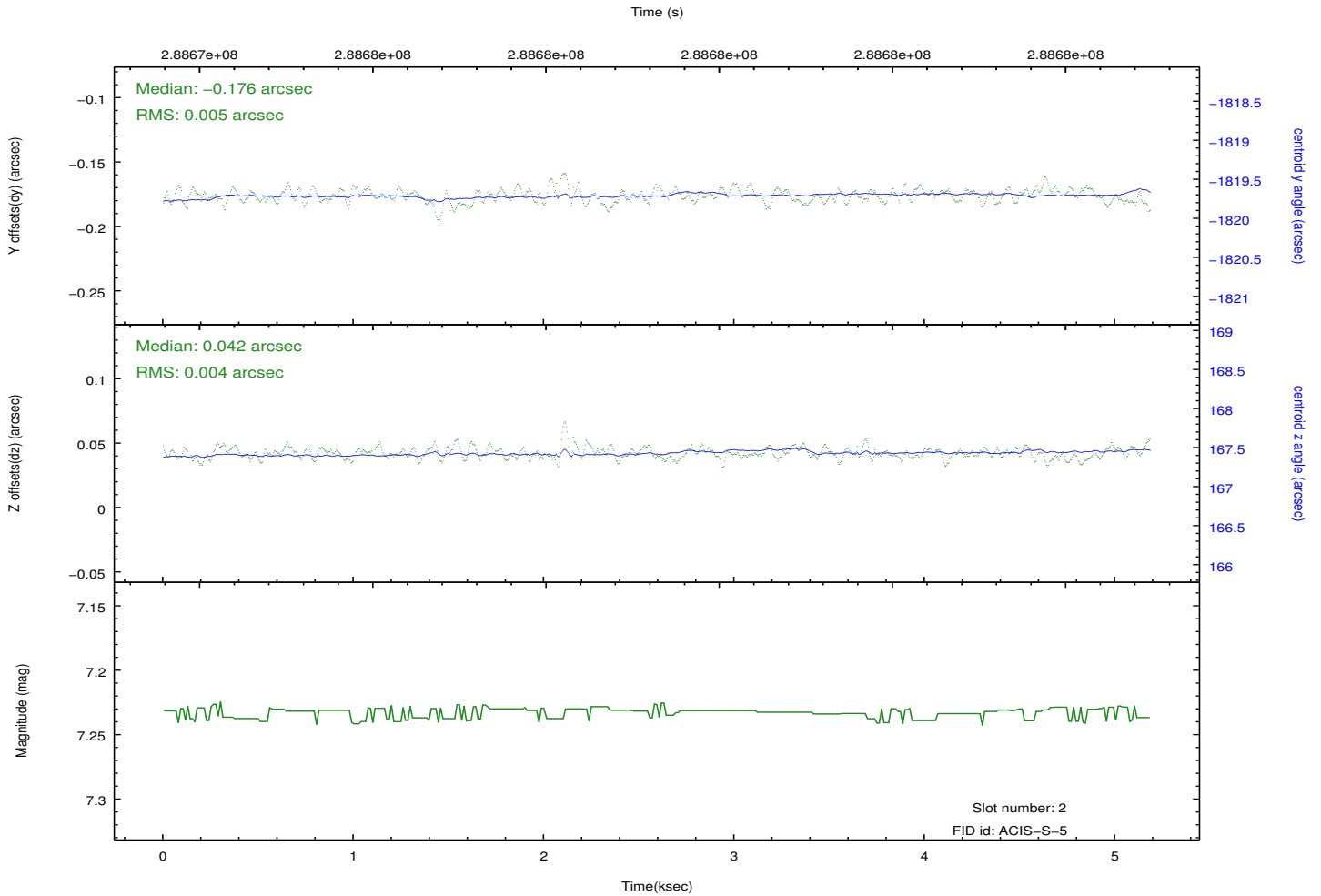
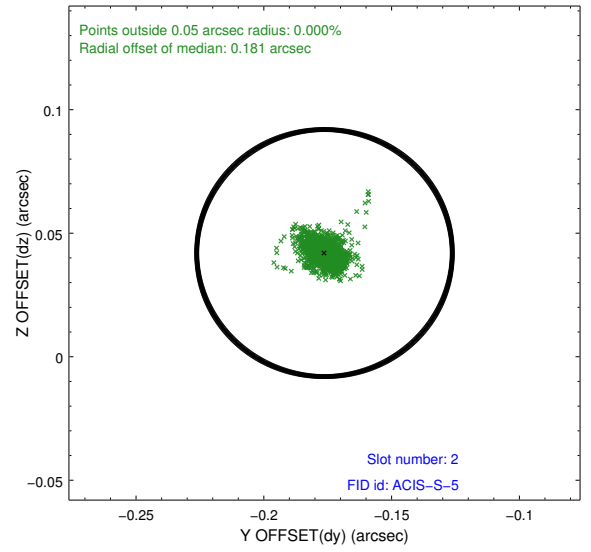
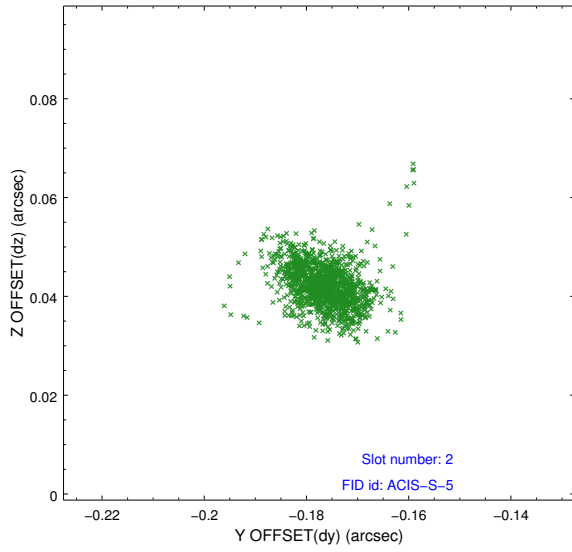
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.04.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.18279969

A.2 Comments