

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18069 - L2 Version 1
Chandra X-Ray Center

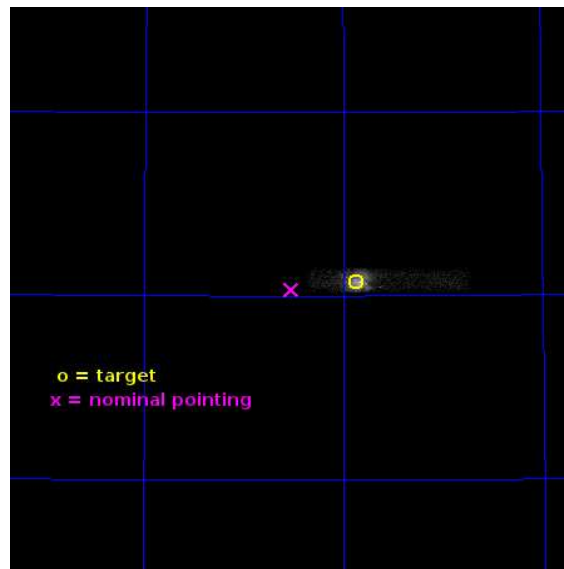
L2 Processing Date : Jun 4 2016

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1 Front

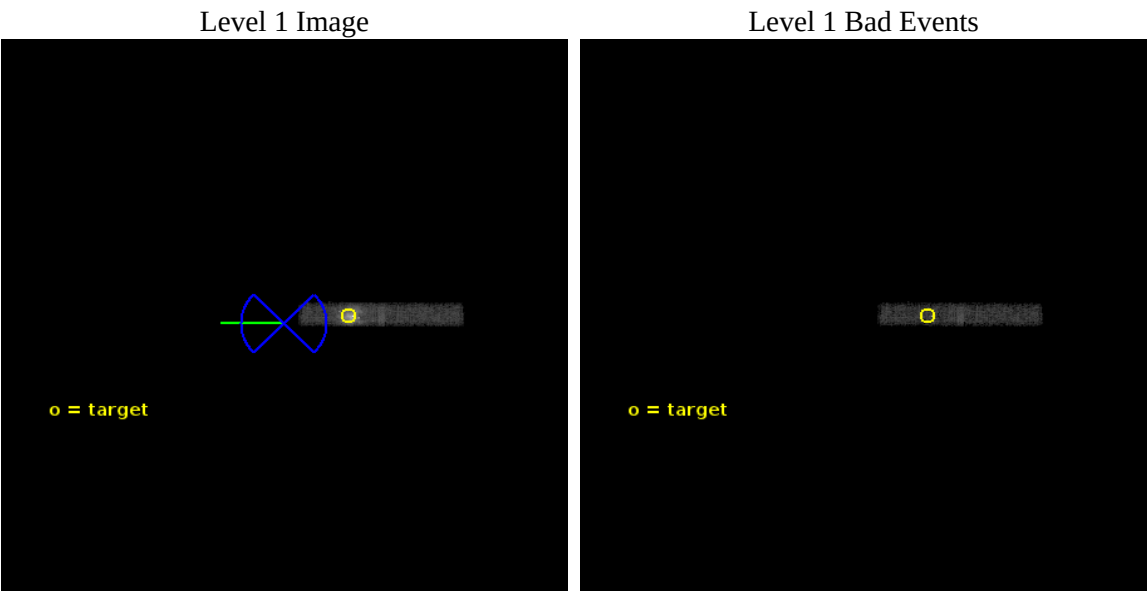
seq_num	601251	Sequence number
obs_id	18069	Observation id
title	Timing and Spectral Studies of the Extreme Binary Population in M82	
observer	Professor Fiona Harrison	Principal investigator
object	M82 offset 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.969583	Observer's specified target RA [deg]
dec_targ	69.679444	Observer's specified target Dec [deg]
ra_nom	149.13050966563	Nominal RA [deg]
dec_nom	69.672416840935	Nominal Dec [deg]
roll_nom	270.05779333388	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25102.335826516	Sum of GTIs [s]
livetime	23198.225479185	Livetime [s]
ontime1	25102.335826516	Sum of GTIs [s]
l2events	39930	Number of level 2 events



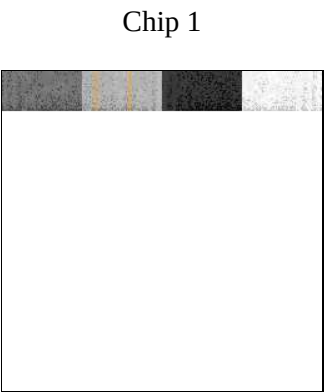
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	25102.335826516	Sum of GTIs [s]
caldsver	4.7.2	 	ontime1	25102.335826516	Sum of GTIs [s]
date	2016-06-05T00:39:31	Date and time of file creation	l1events	68813	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 1
level 1 events	68813
rejected events	25004
rejected %	36%

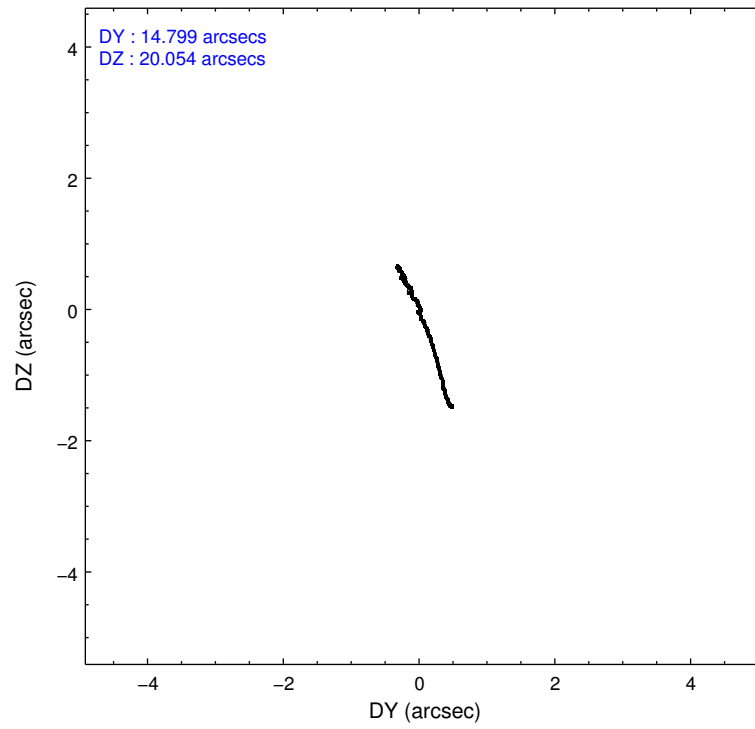
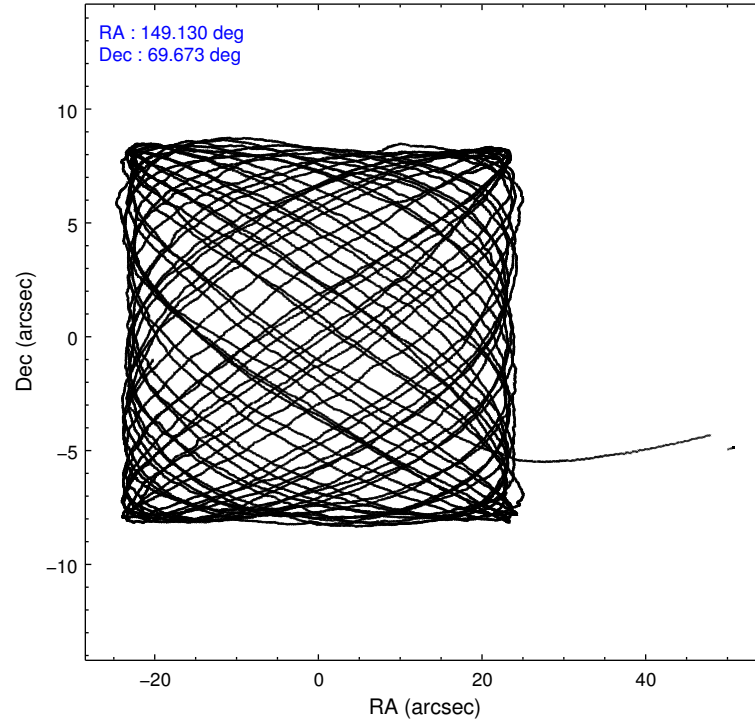
	ccd 1
grade 0 events	32511
	47%
grade 1 events	370
	0%
grade 2 events	5200
	7%
grade 3 events	2079
	3%
grade 4 events	1997
	2%
grade 5 events	1331
	1%
grade 6 events	2022
	2%
grade 7 events	23303
	33%

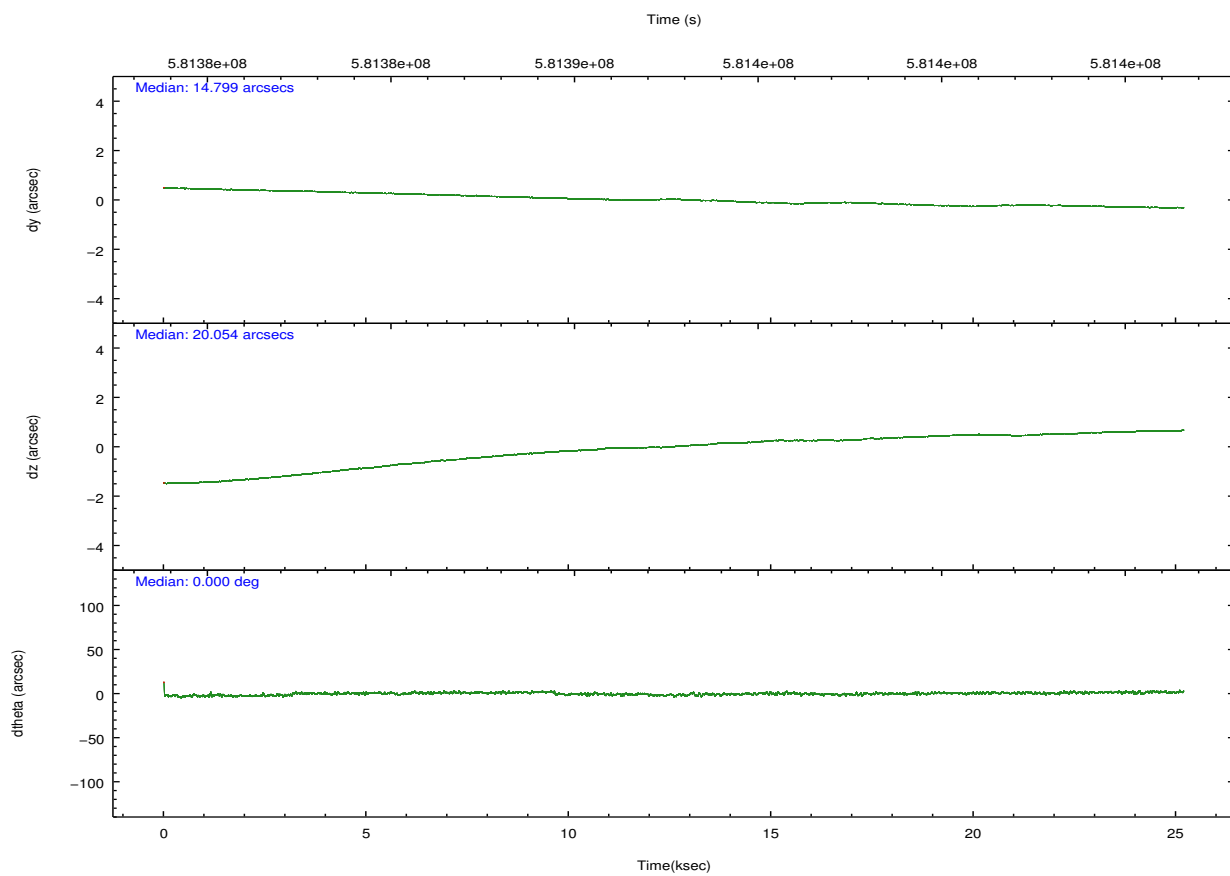
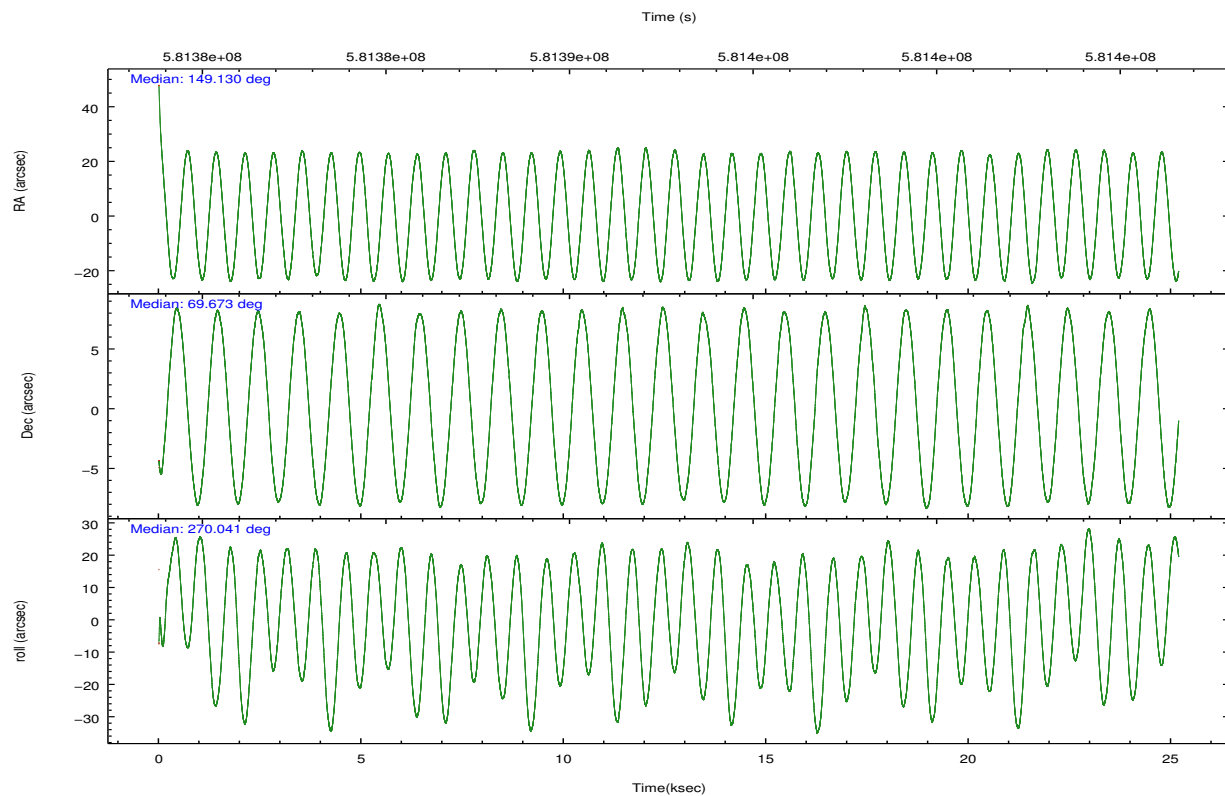
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-1	ACIS-1
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	149.090408	149.1305096656341
[deg] Pointing Dec	69.696251	69.67241684093513
[deg] Pointing Roll	269.886690	270.0577933338782
[deg] Roll angle	270.000000	270.000000
[deg] Roll tolerance	45.000000	45.000000
Roll constraint allows 180D rotation	Y	Y
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	581380298.184000	581379126.4887
Observation start date	2016-06-03T22:30:30	2016-06-03T22:12:06
[s] Observation end time (MET)	581405298.184000	581406227.49025
Observation end date	2016-06-04T05:27:10	2016-06-04T05:43:47
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	897	897
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.5

2.3 Aspect



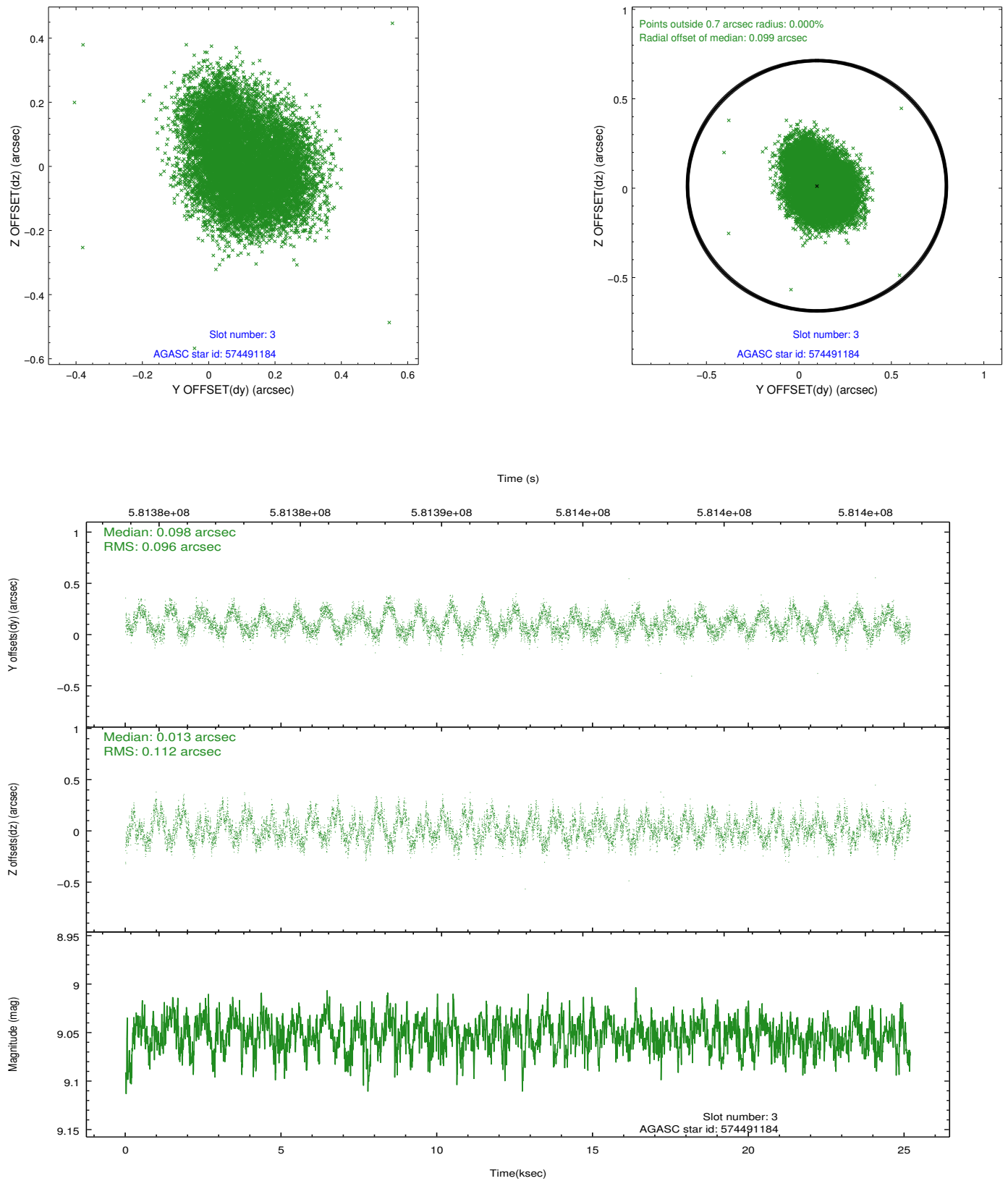


Slot Statistics

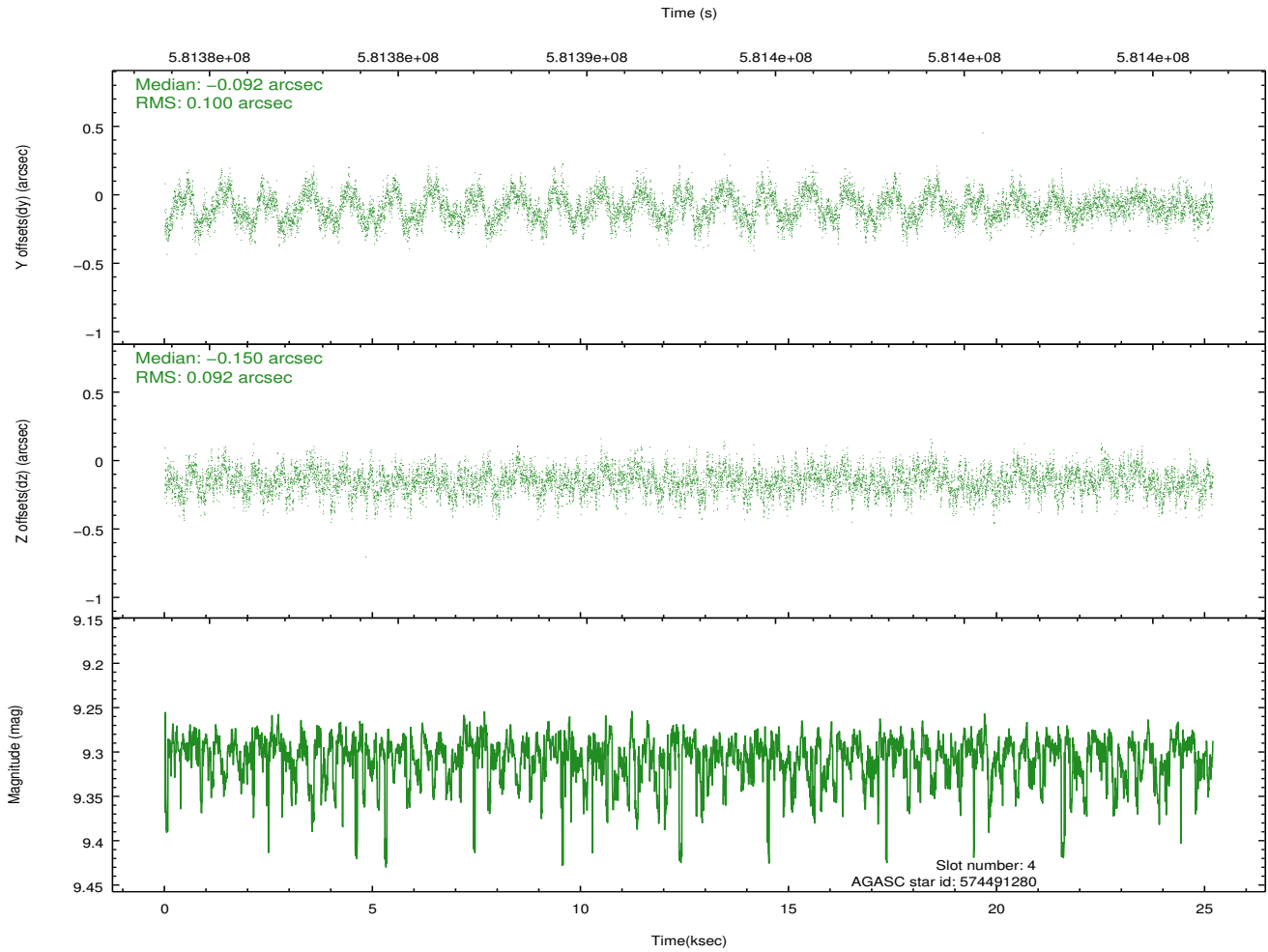
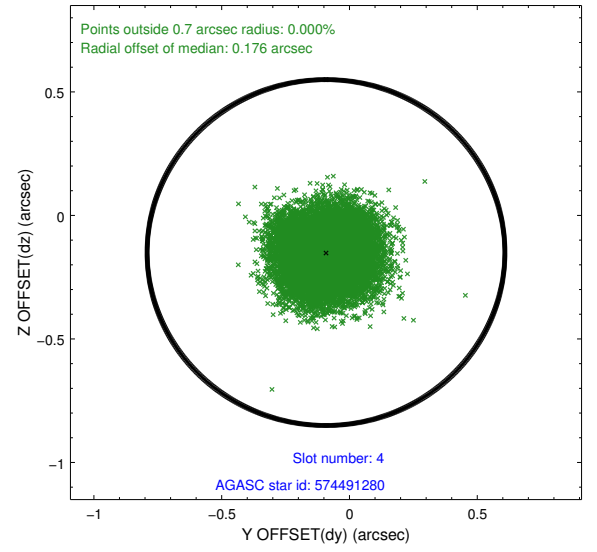
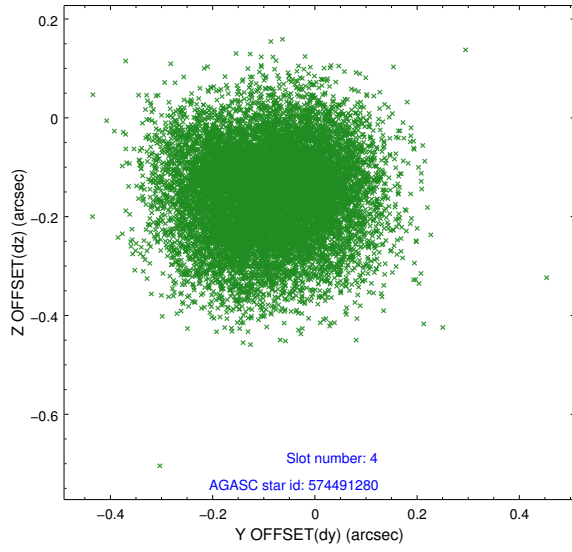
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.16	6144	-0.288	-0.140	0.010	0.017	0.000000	0.000000	-769.86	-850.10
1	FID		ACIS-I-4	7.21	6143	0.245	0.183	0.012	0.019	0.000000	0.000000	2144.76	1056.22
2	FID		ACIS-I-6	7.26	6143	-0.058	0.021	0.014	0.022	0.000000	0.000000	390.71	1698.45
3	GUIDE	used	574491184	9.05	12277	0.098	0.013	0.160	0.242	148.582453	69.768699	-261.38	-632.25
4	GUIDE	used	574491280	9.30	12276	-0.092	-0.150	0.146	0.229	148.611567	69.450135	887.07	-604.62
5	GUIDE	used	574491872	9.23	12274	0.059	0.154	0.139	0.227	147.207613	69.765453	-273.92	-2344.37
6	GUIDE	used	574886464	9.74	12268	-0.003	-0.012	0.239	0.334	149.898674	70.203982	-1836.15	981.75
7	GUIDE	used	574886496	8.48	12281	-0.063	0.004	0.138	0.207	148.945563	70.041136	-1241.42	-180.20

2.4 Star Slots

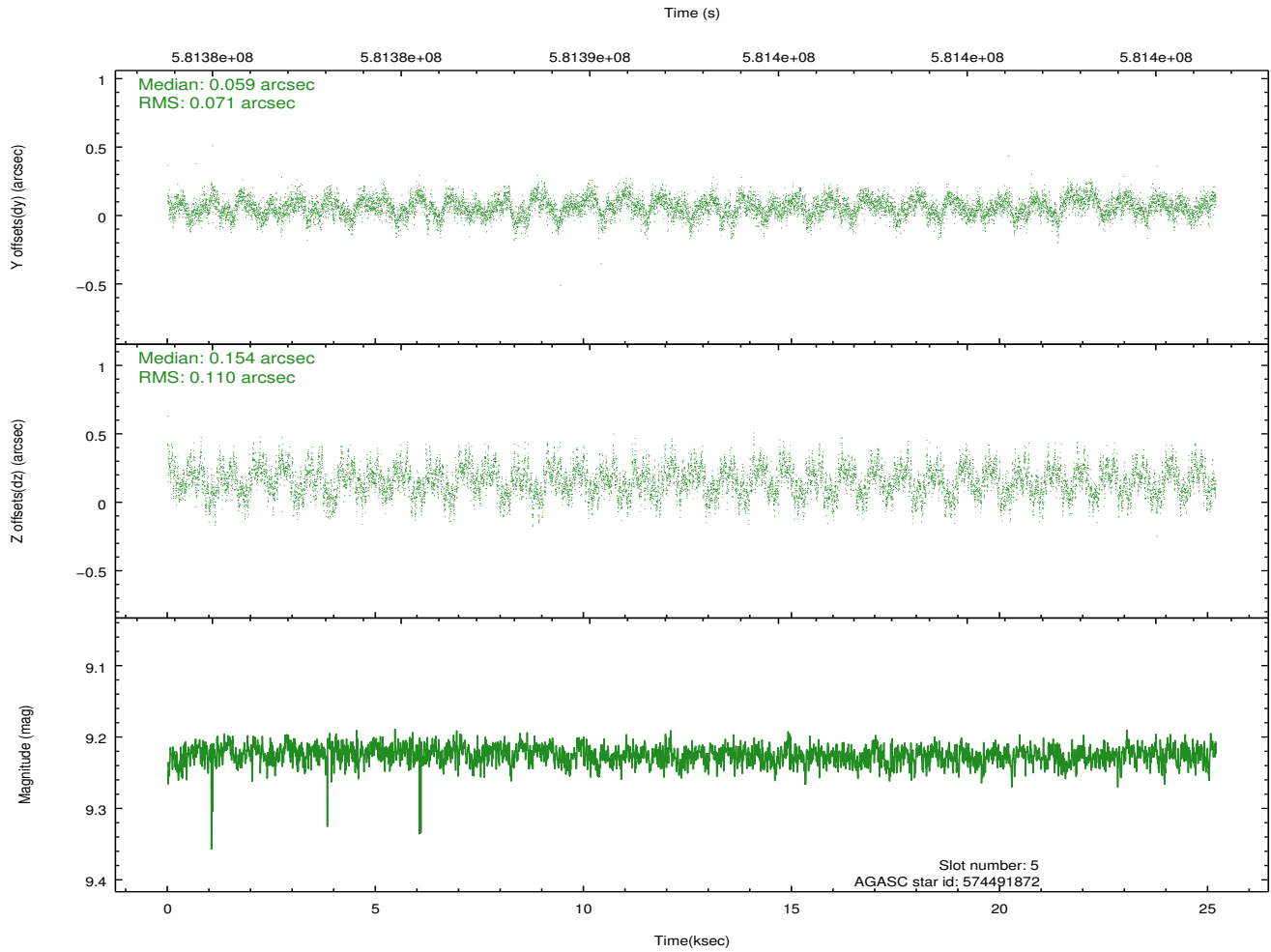
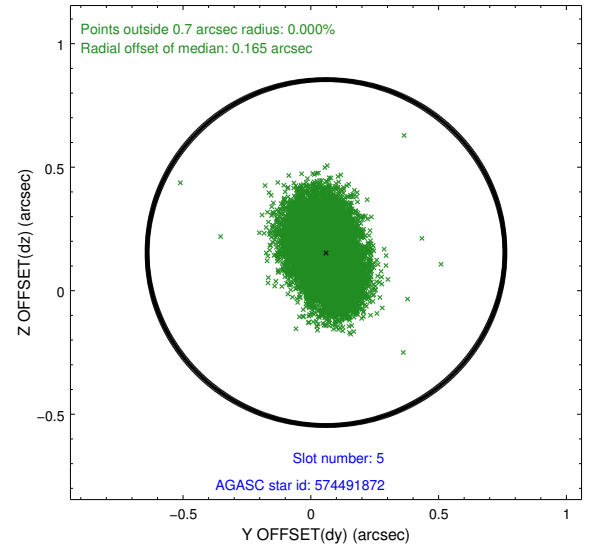
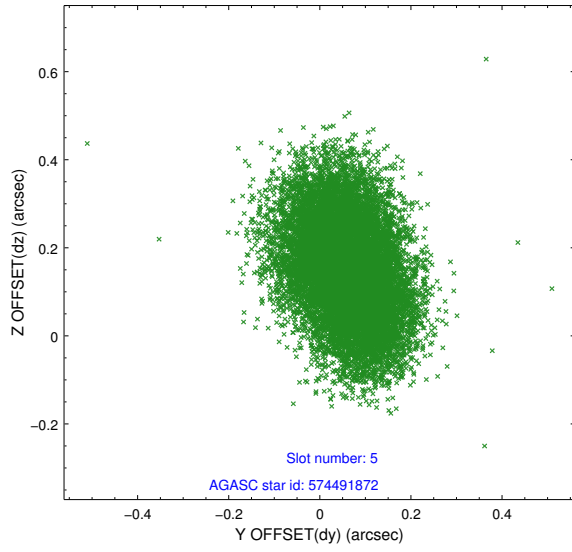
2.4.1 Slot 3



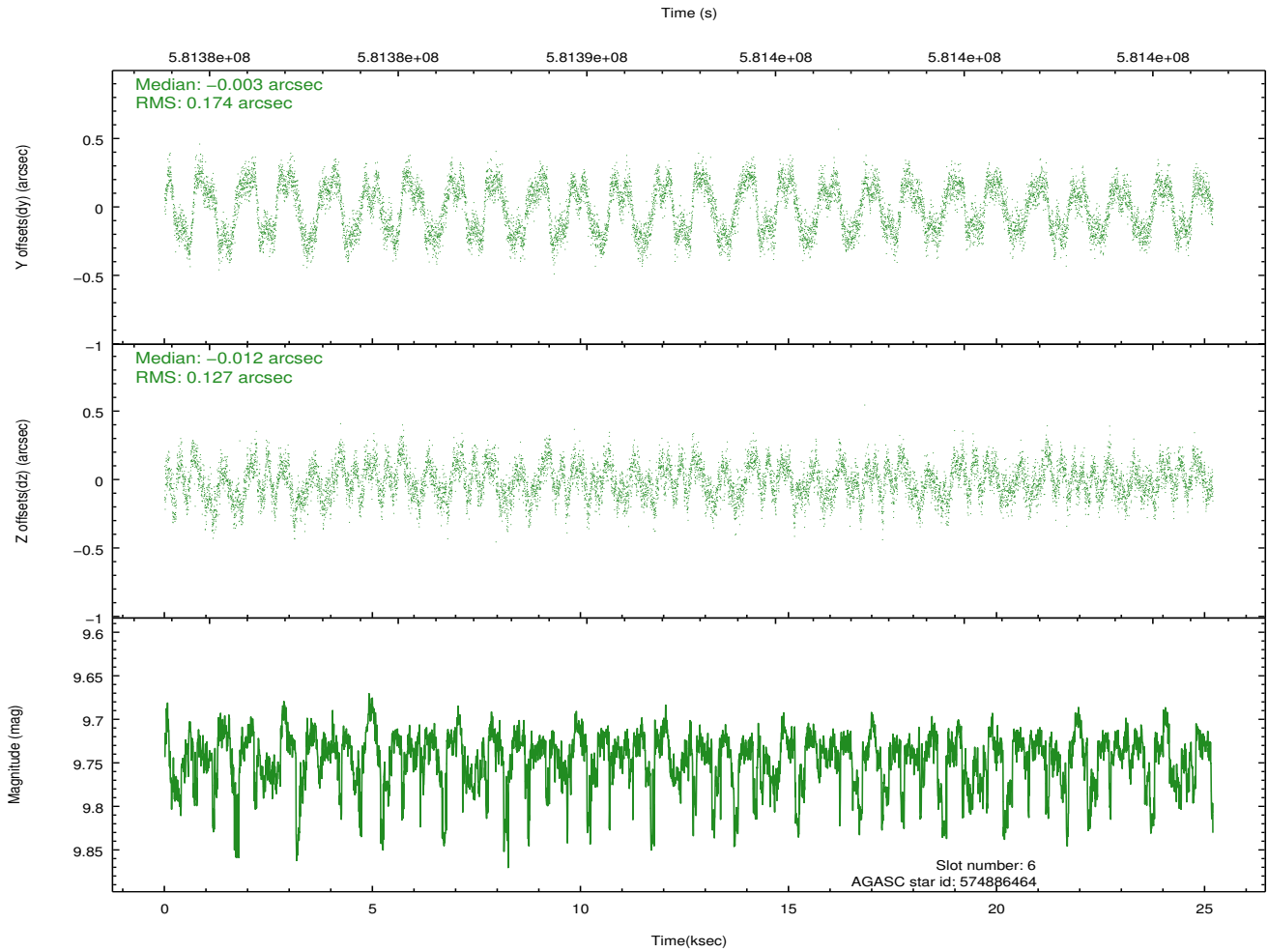
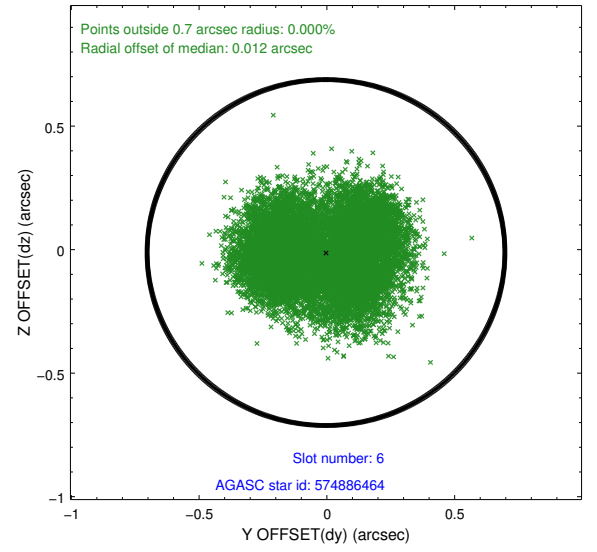
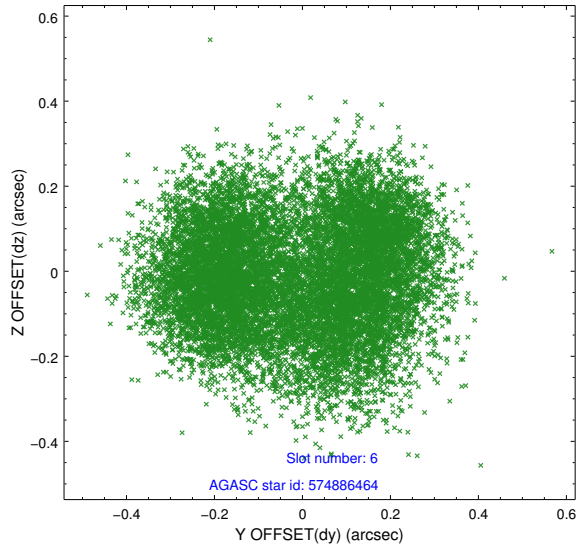
2.4.2 Slot 4



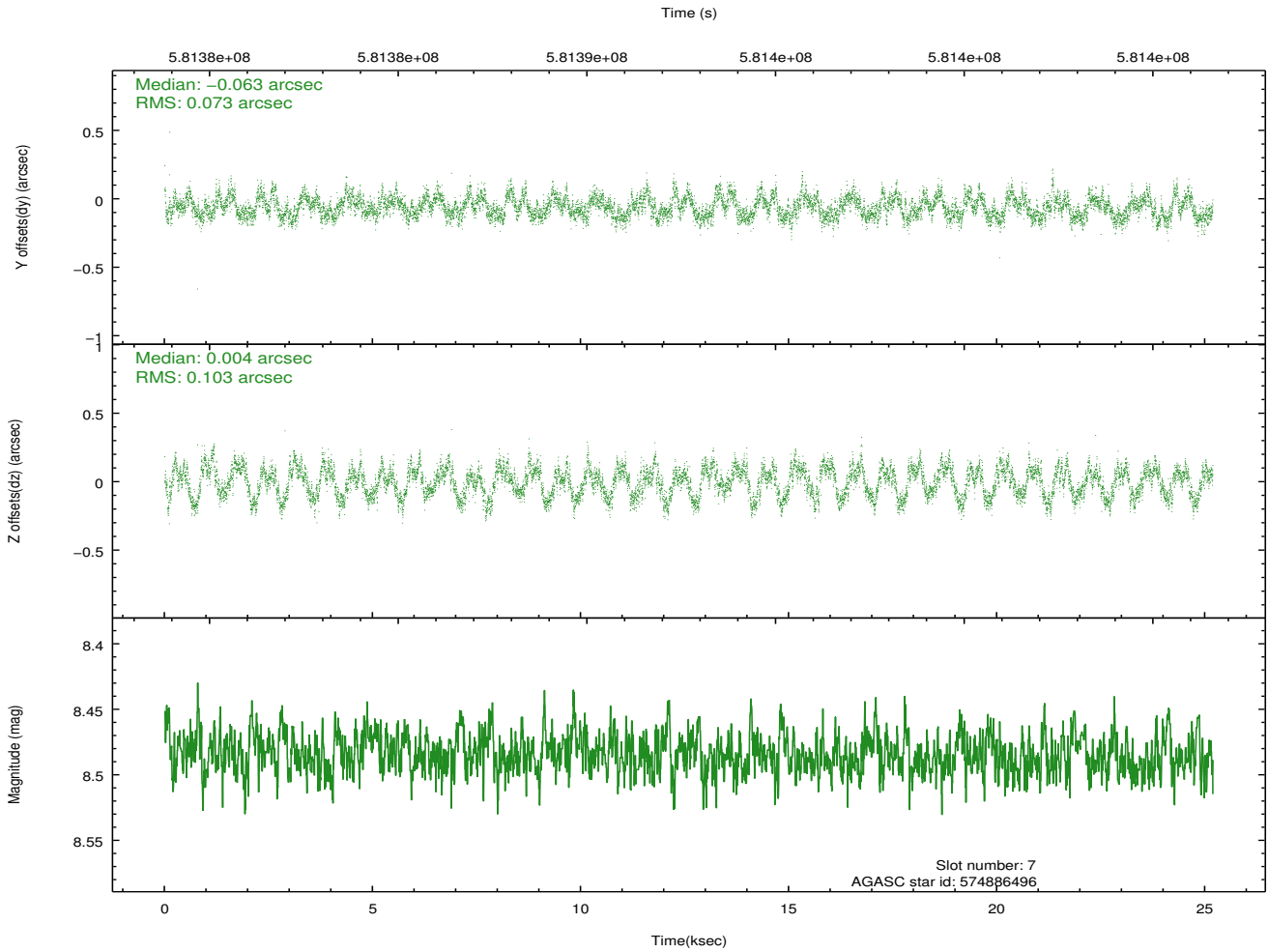
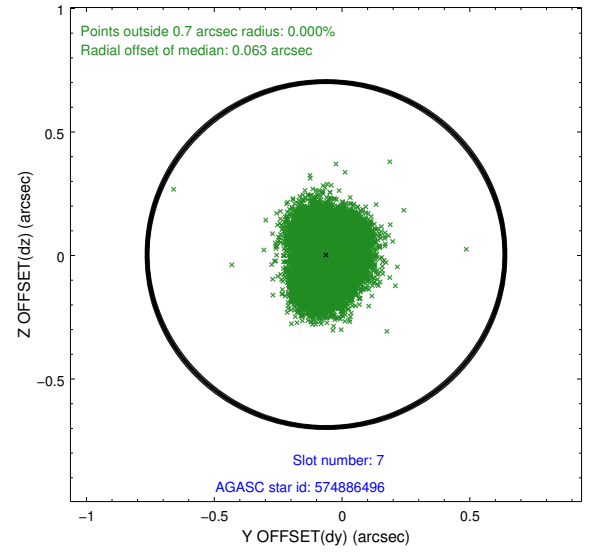
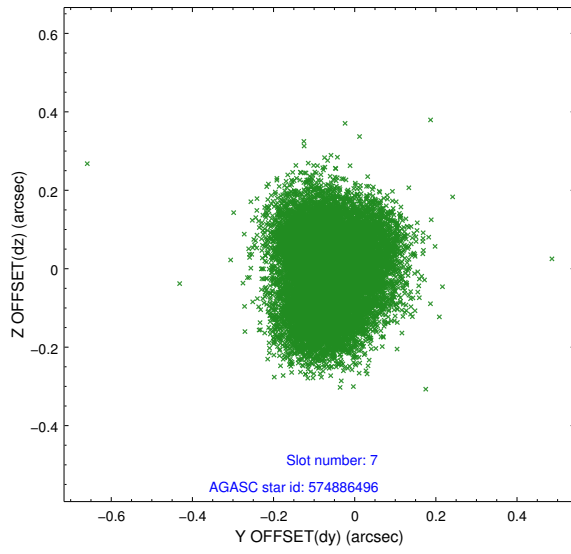
2.4.3 Slot 5



2.4.4 Slot 6

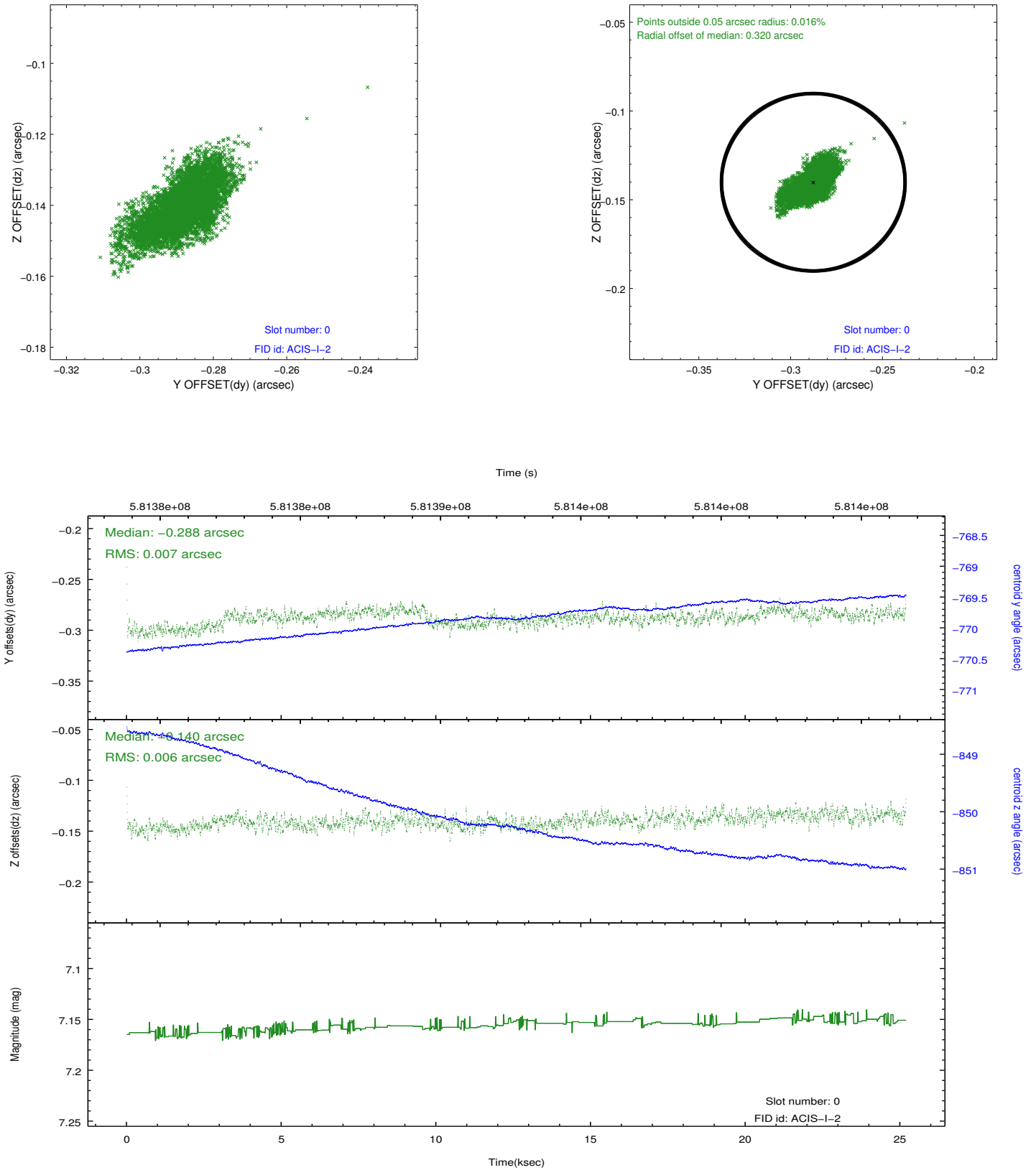


2.4.5 Slot 7

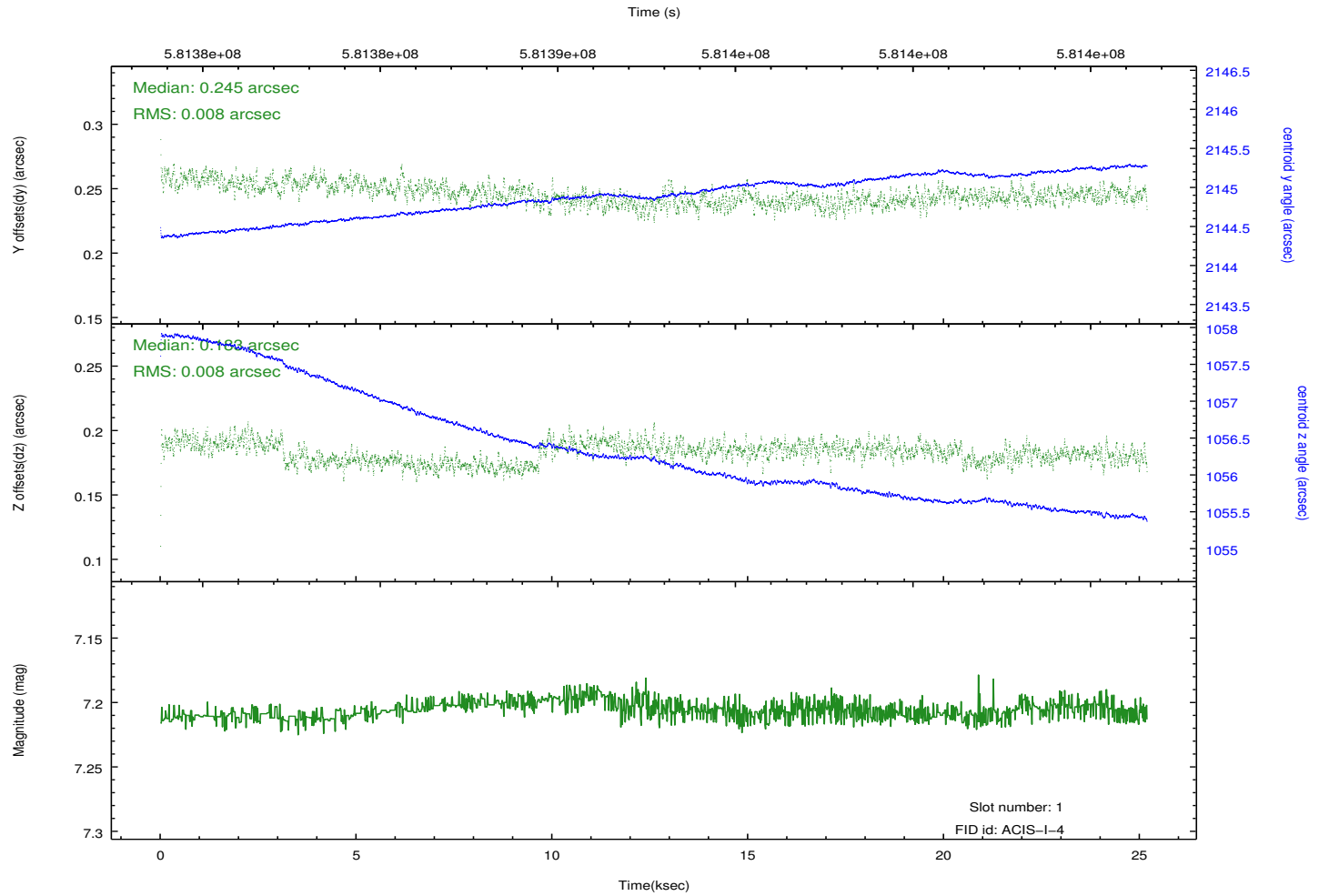
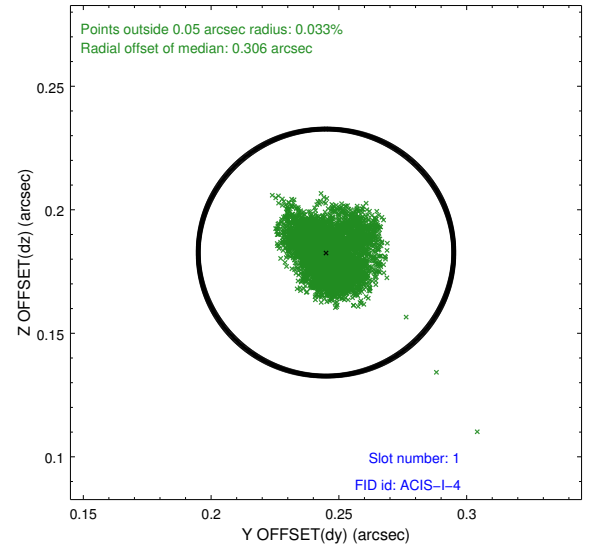
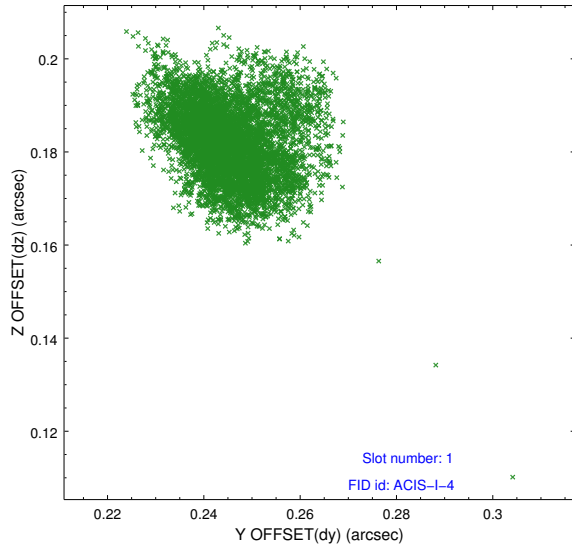


2.5 FID Slots

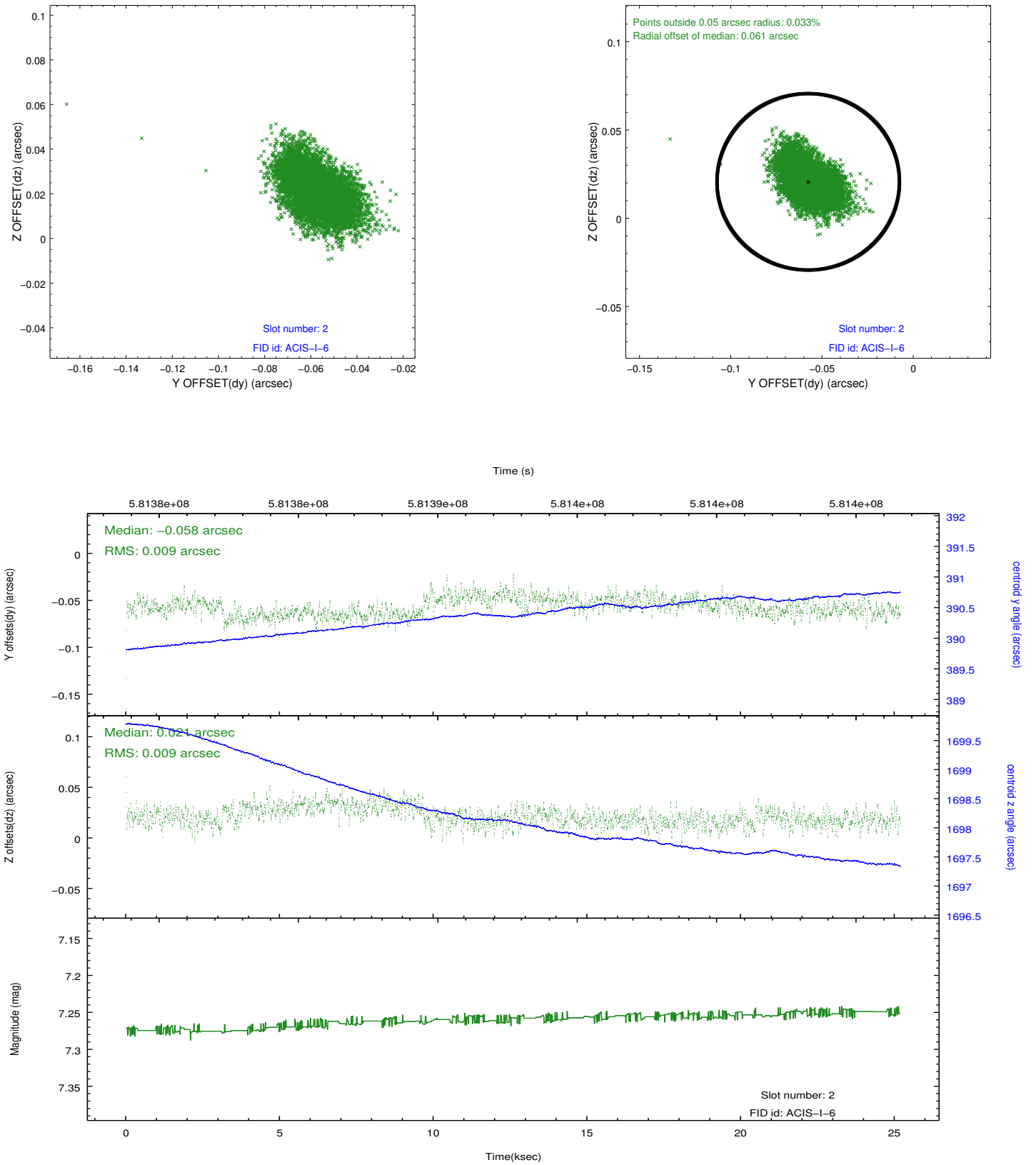
2.5.1 Slot 0



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)	2016.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.102335826516

A.2 Comments

Roll constraint met. Monitor constraint met.