

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18756 - L2 Version 1
Chandra X-Ray Center

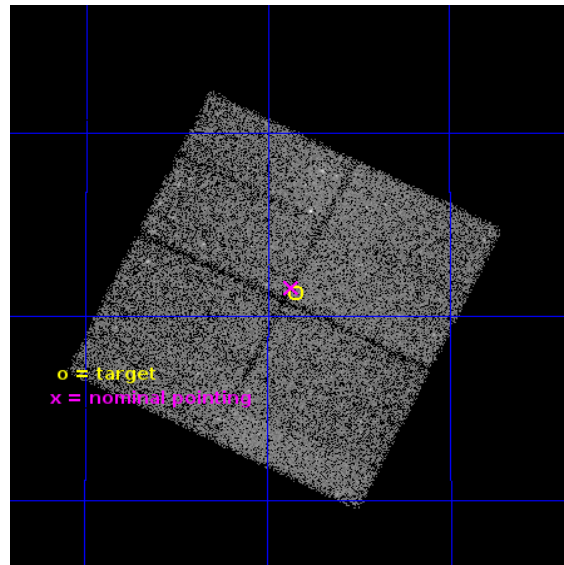
L2 Processing Date : Feb 8 2016

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1 Front

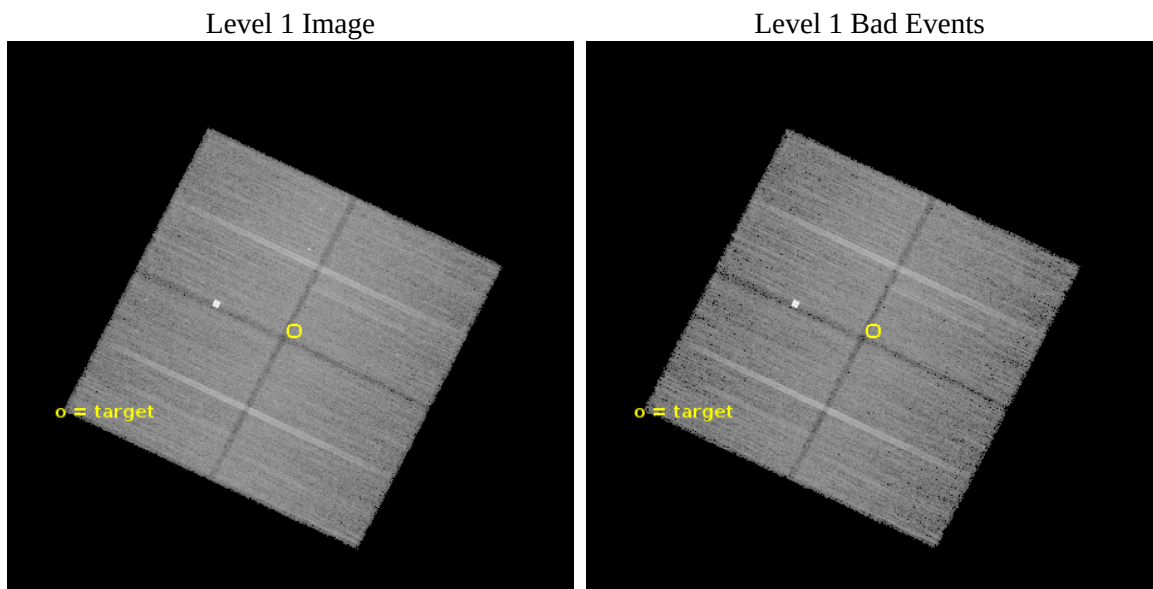
seq_num	200969	Sequence number
obs_id	18756	Observation id
title	The ABCs of the old G1.5V/G2.5V/M4-5V Star System 16 Cygni: Calibrating Coronal X-ray Emission for Old Benchmark Stars	Proposal title
observer	Prof. Edward Guinan	Principal investigator
object	16 Cyg ABC	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	295.460417	Observer's specified target RA [deg]
dec_targ	50.521389	Observer's specified target Dec [deg]
ra_nom	295.46735652989	Nominal RA [deg]
dec_nom	50.526256673578	Nominal Dec [deg]
roll_nom	26.203335538441	Nominal Roll [deg]
revision	1	Processing version of data
ontime	39080.497801423	Sum of GTIs [s]
livetime	38569.882327004	Livetime [s]
ontime0	39077.233721256	Sum of GTIs [s]
ontime1	39080.415721416	Sum of GTIs [s]
ontime2	39080.456761479	Sum of GTIs [s]
ontime3	39080.497801423	Sum of GTIs [s]
l2events	94153	Number of level 2 events



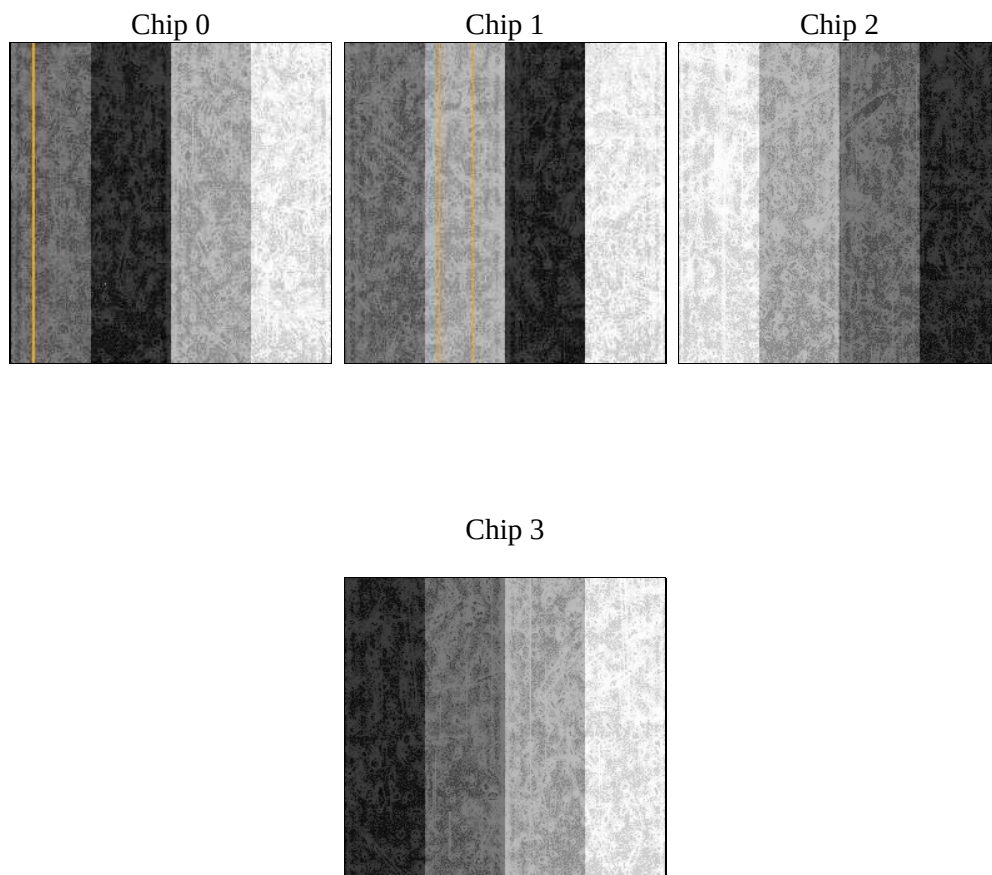
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	39000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	39080.497801423	Sum of GTIs [s]
caldsver	4.7.0	 	ontime0	39077.233721256	Sum of GTIs [s]
date	2016-02-08T18:04:08	Date and time of file creation	ontime1	39080.415721416	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	39080.456761479	Sum of GTIs [s]
			ontime3	39080.497801423	Sum of GTIs [s]
			l1events	923068	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	214914	220524	255299	232331
rejected events	188383	190958	226355	205145
rejected %	87%	86%	88%	88%

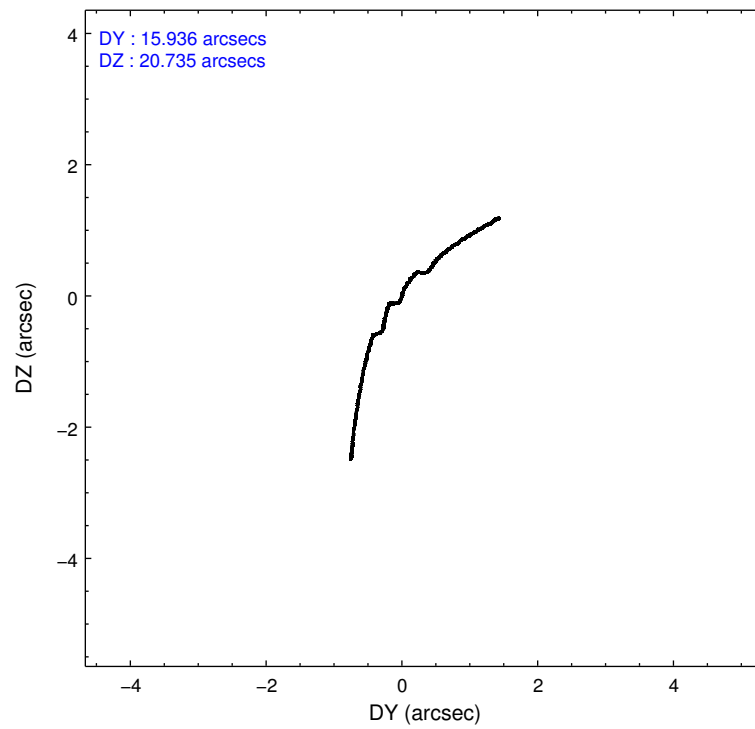
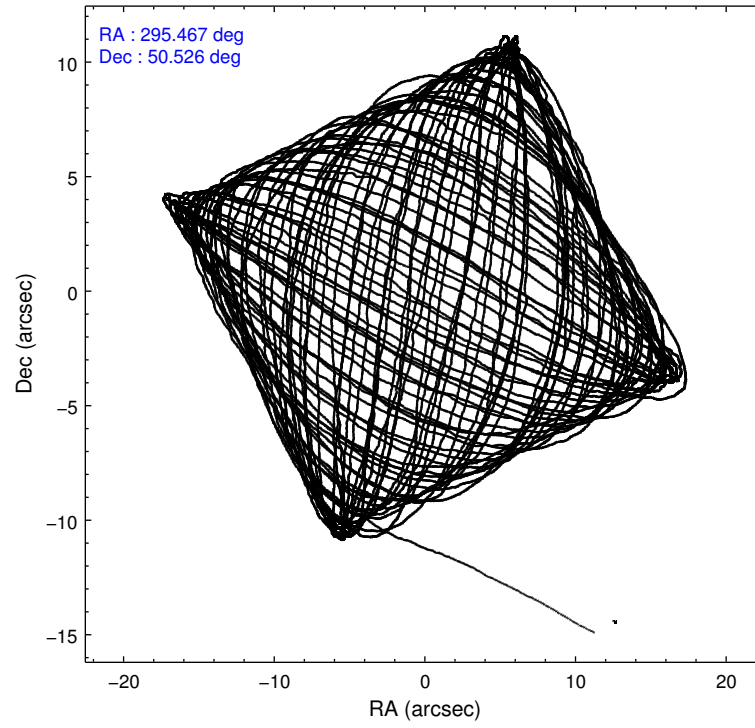
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9242	10243	11711	10757
	4%	4%	4%	4%
grade 1 events	102	106	12125	152
	0%	0%	4%	0%
grade 2 events	6567	7514	6853	5660
	3%	3%	2%	2%
grade 3 events	2742	2680	2582	2739
	1%	1%	1%	1%
grade 4 events	2588	2773	2641	2769
	1%	1%	1%	1%
grade 5 events	10086	10655	9437	11551
	4%	4%	3%	4%
grade 6 events	5393	6358	5160	5265
	2%	2%	2%	2%
grade 7 events	178194	180195	204790	193438
	82%	81%	80%	83%

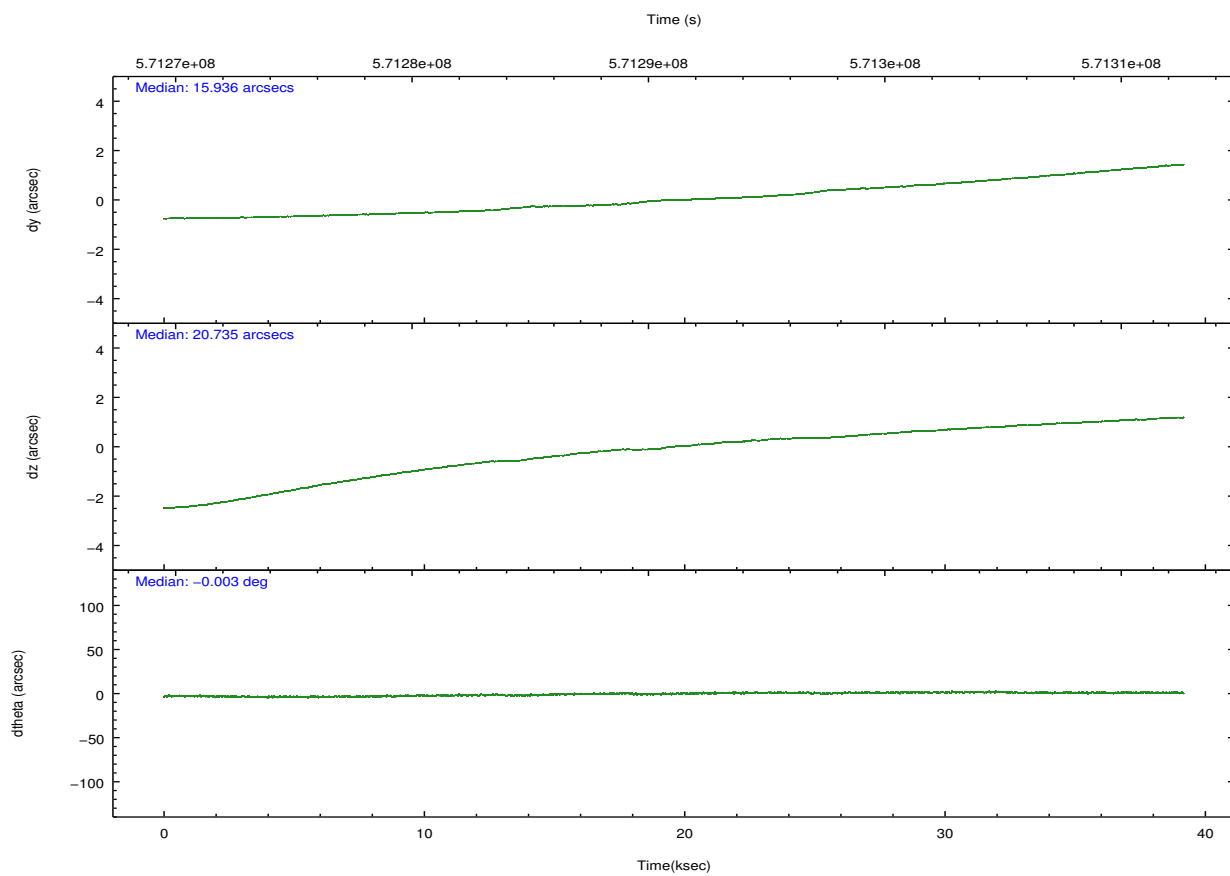
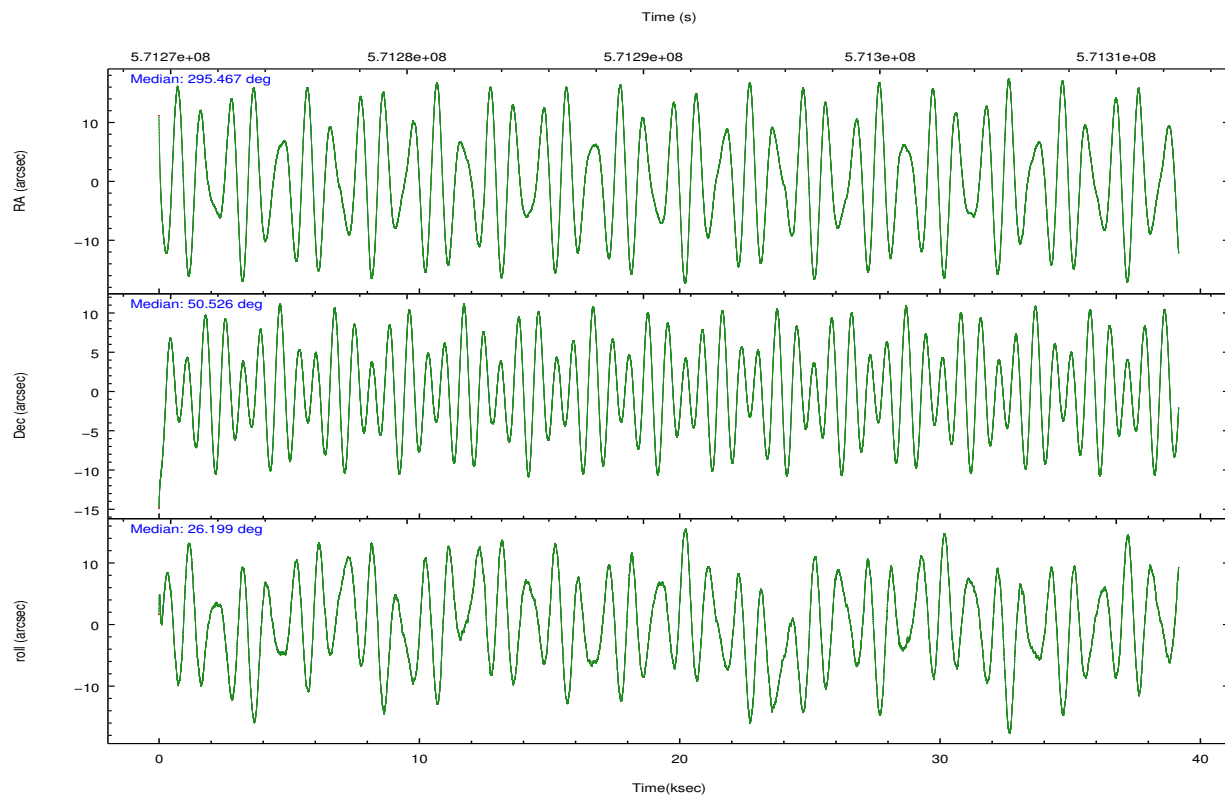
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	295.443349	295.4673565298879
[deg] Pointing Dec	50.503285	50.52625667357824
[deg] Pointing Roll	26.013173	26.20333553844149
[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)	571271654.184000	571270506.27598
Observation start date	2016-02-07T22:33:06	2016-02-07T22:15:06
[s] Observation end time (MET)	571310654.184000	571311601.0908099
Observation end date	2016-02-08T09:23:06	2016-02-08T09:40:01
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	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



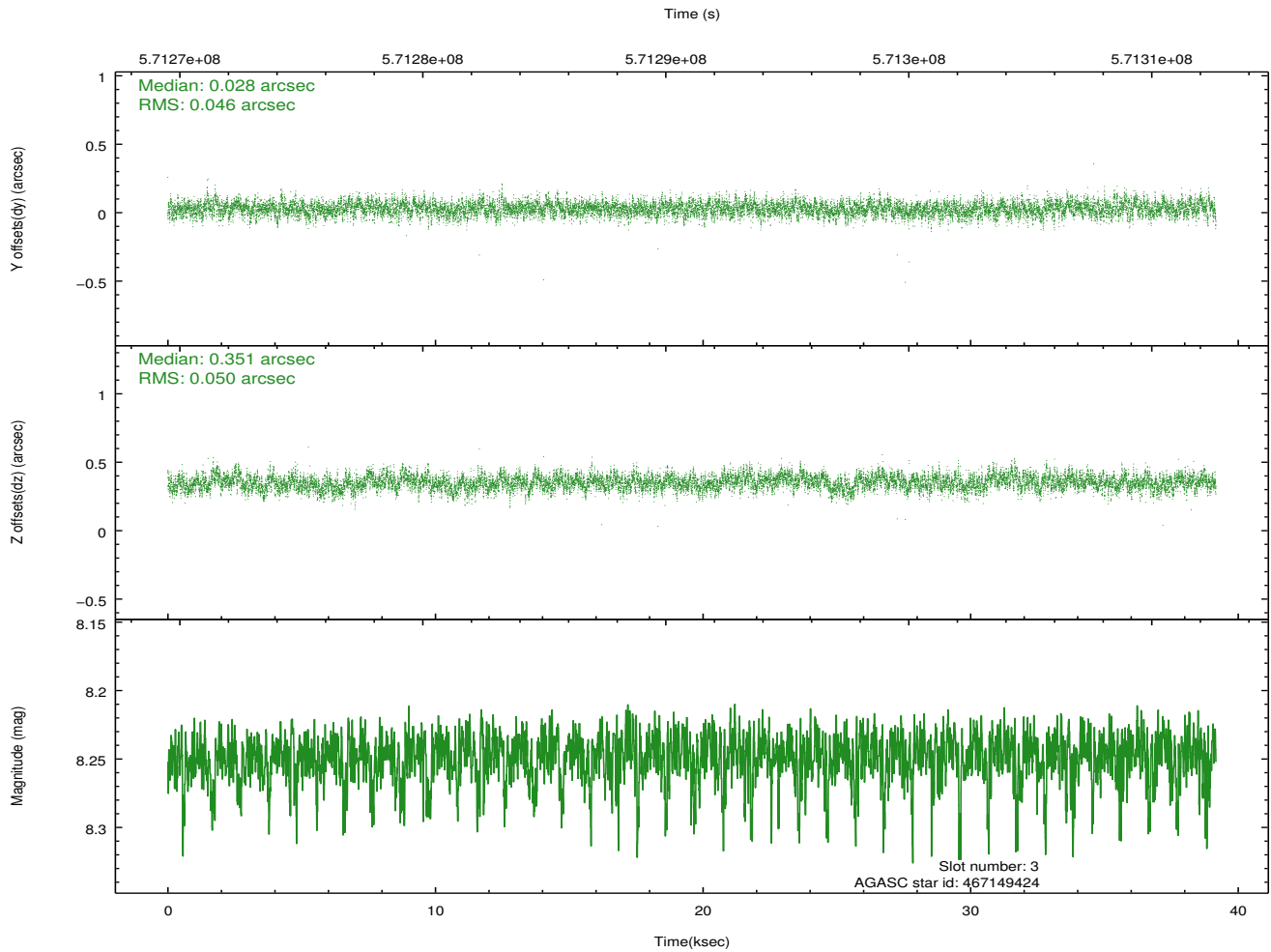
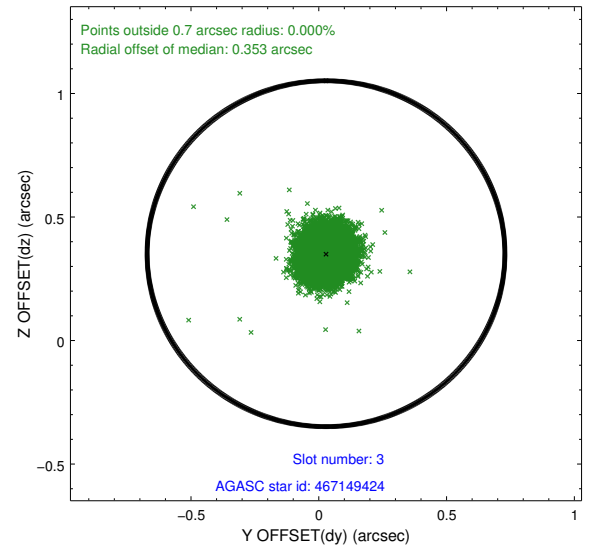
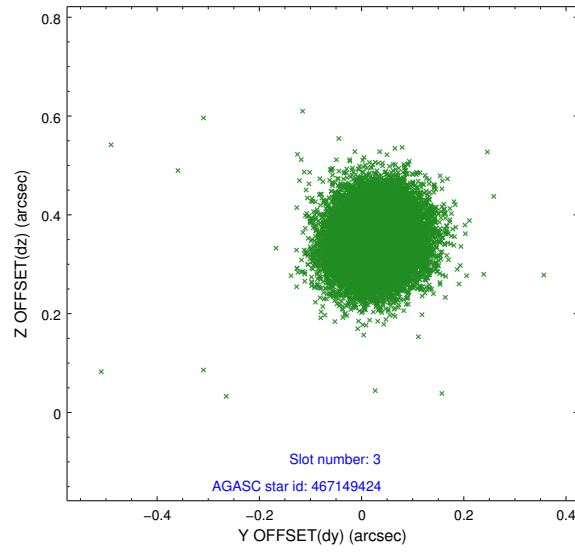


Slot Statistics

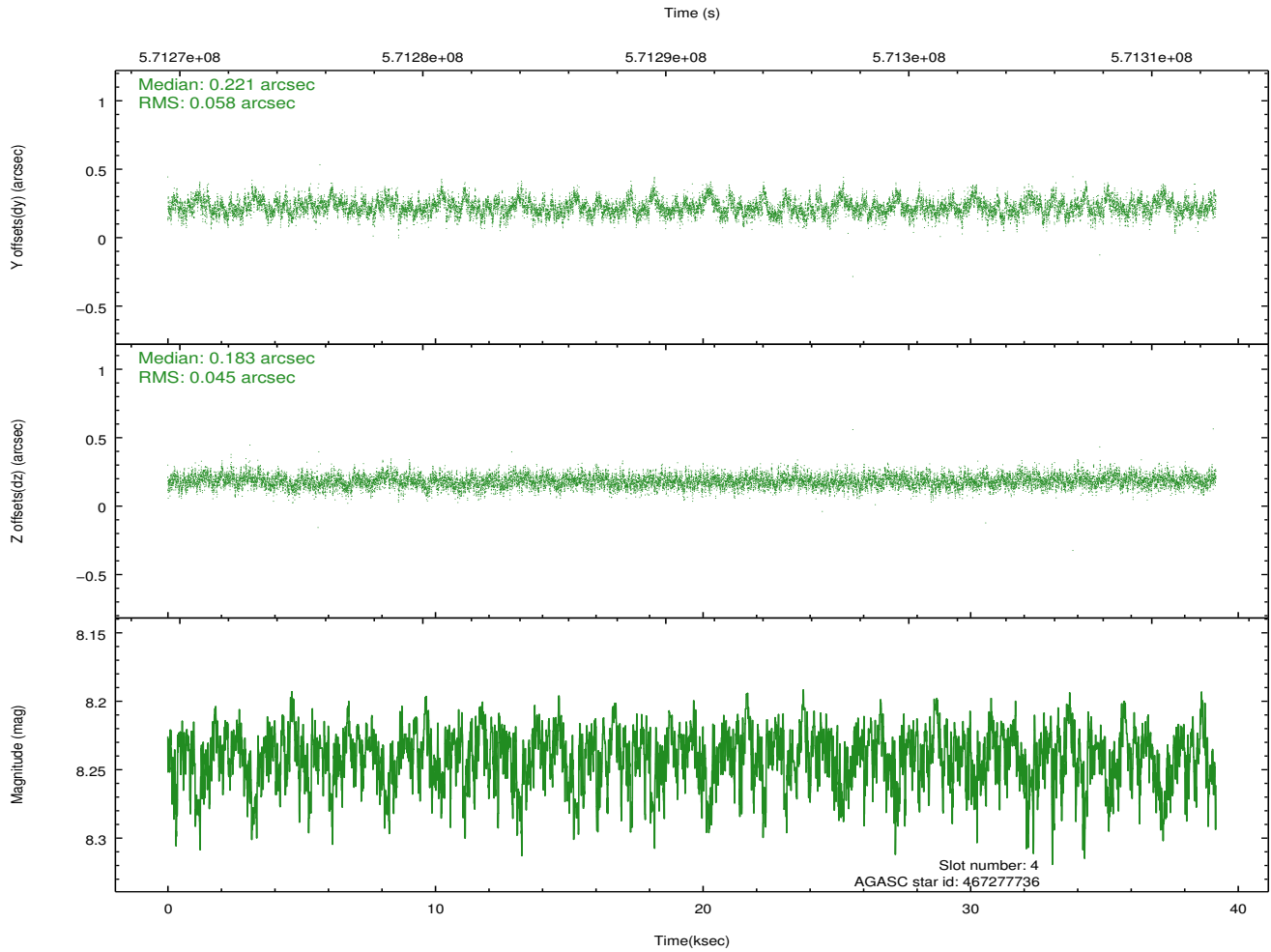
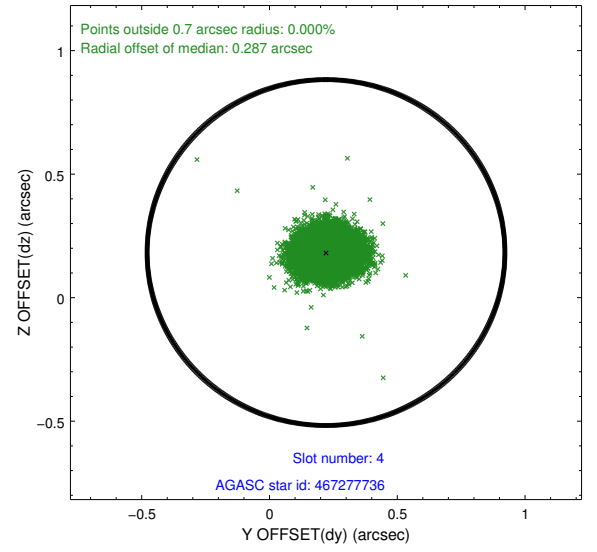
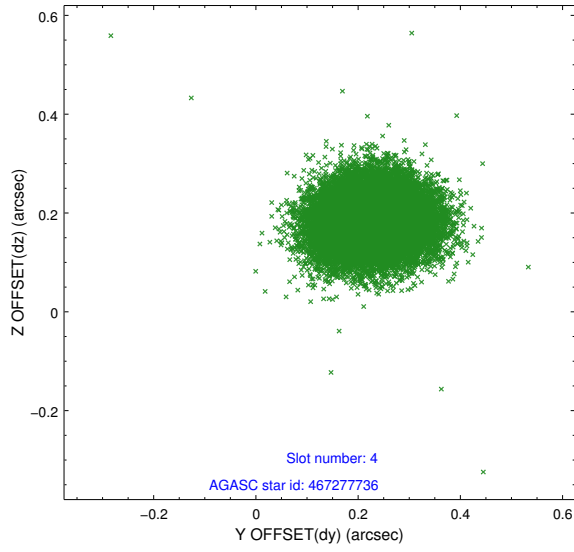
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	9555	0.086	-0.053	0.028	0.058	0.000000	0.000000	923.51	-844.27
1	FID		ACIS-I-5	7.26	9555	-0.341	0.047	0.017	0.024	0.000000	0.000000	-1825.06	1053.23
2	FID		ACIS-I-6	7.26	9553	0.165	0.073	0.018	0.039	0.000000	0.000000	389.05	1697.83
3	GUIDE	used	467149424	8.25	19107	0.028	0.351	0.072	0.117	294.659229	50.204608	-2090.72	-164.93
4	GUIDE	used	467277736	8.24	19101	0.221	0.183	0.077	0.128	295.465798	49.988796	-765.07	-1686.97
5	GUIDE	used	467278280	8.67	19093	0.244	0.010	0.092	0.148	295.658635	49.972383	-389.29	-1935.48
6	GUIDE	used	467280824	8.35	19101	0.112	-0.029	0.113	0.200	296.736039	50.203107	2215.23	-2253.76
7	GUIDE	used	467798616	6.85	19107	-0.604	-0.514	0.083	0.128	295.929610	51.066831	1879.75	1343.78

2.4 Star Slots

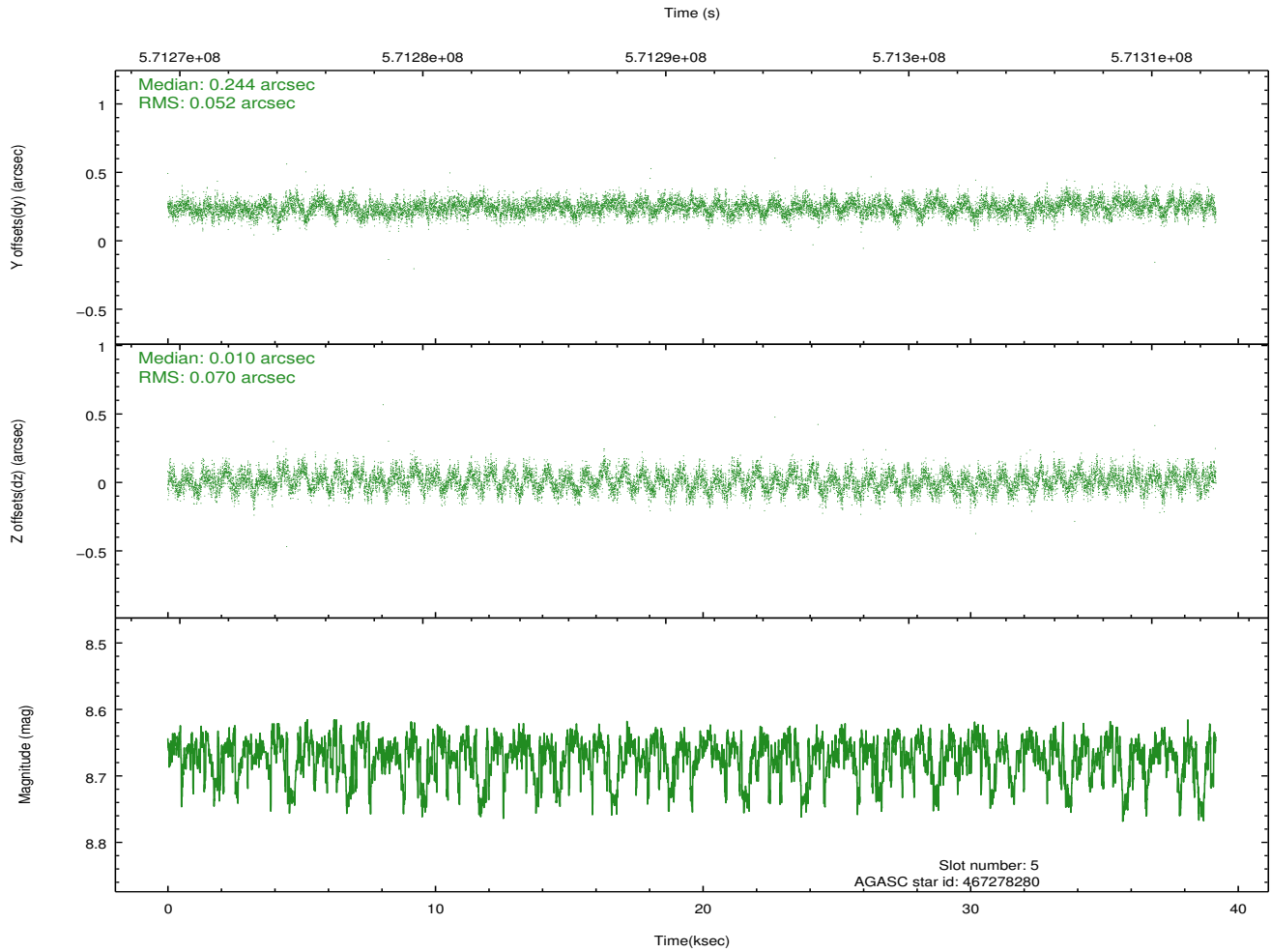
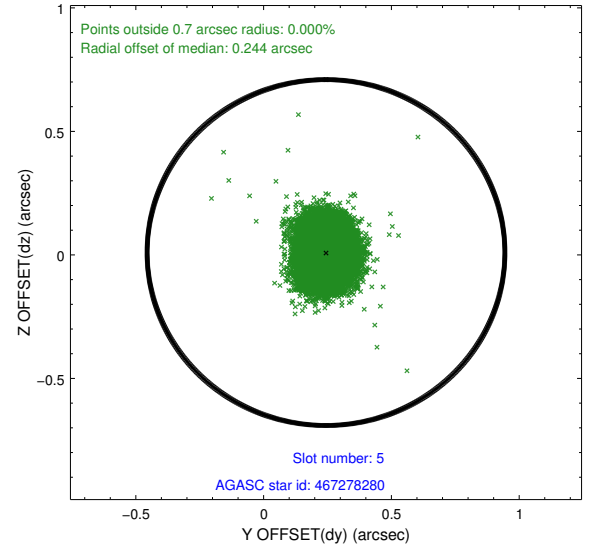
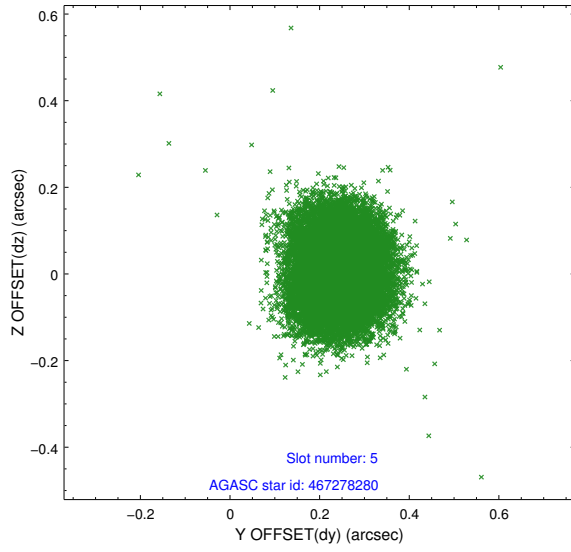
2.4.1 Slot 3



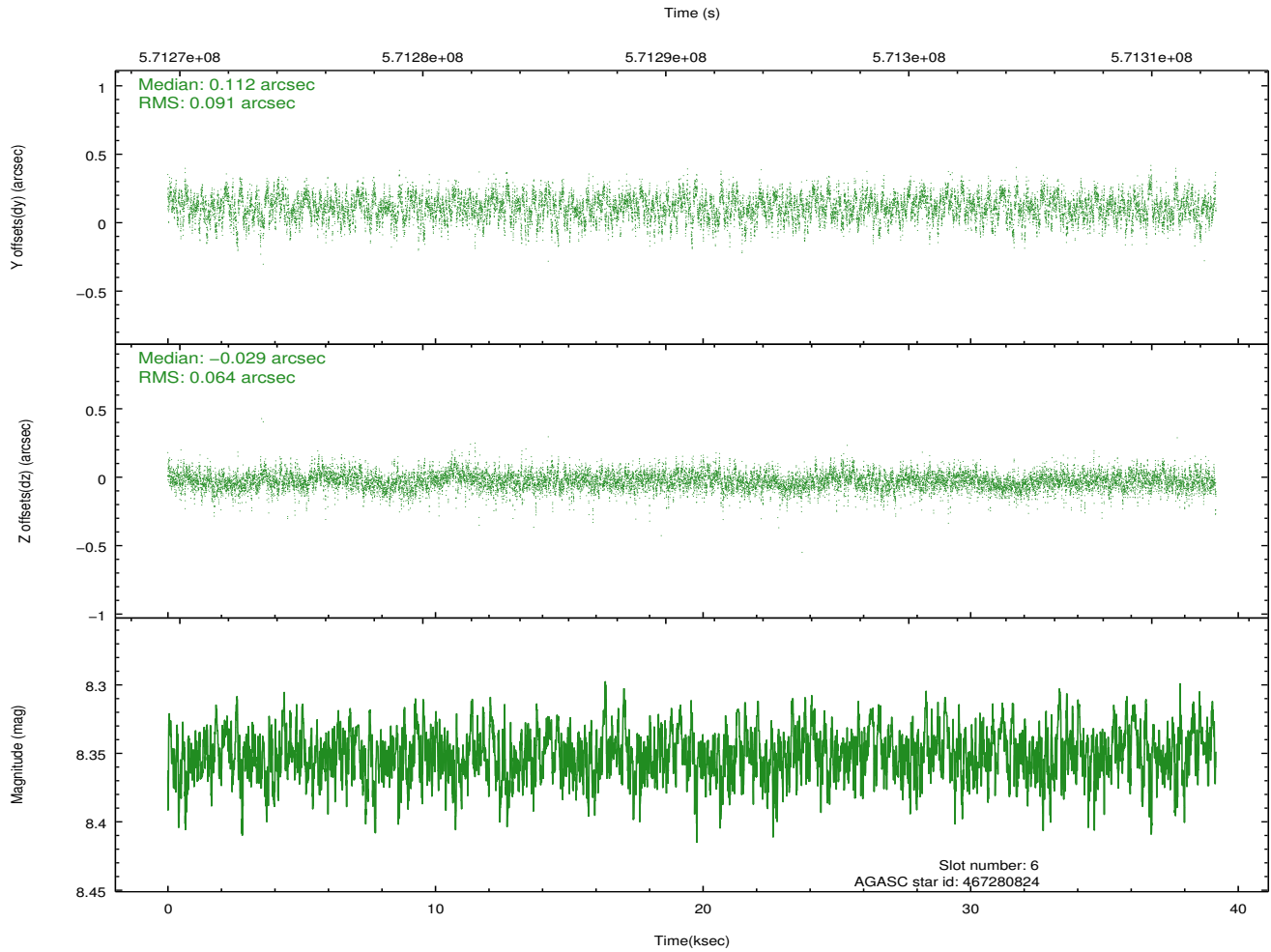
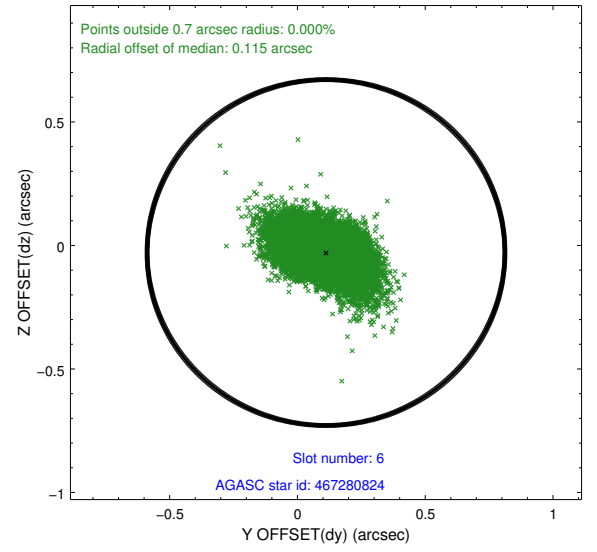
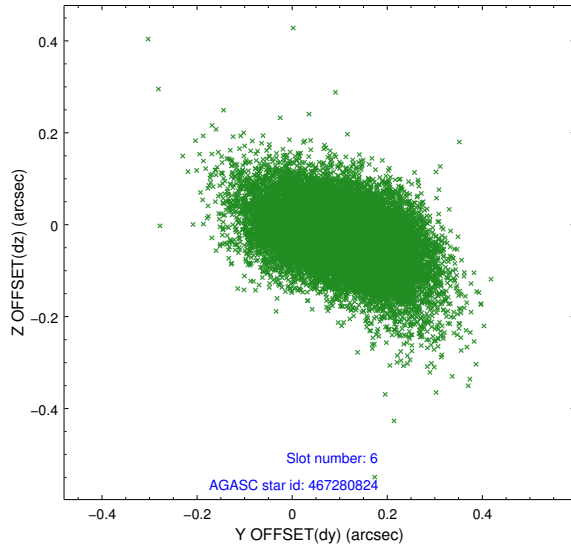
2.4.2 Slot 4



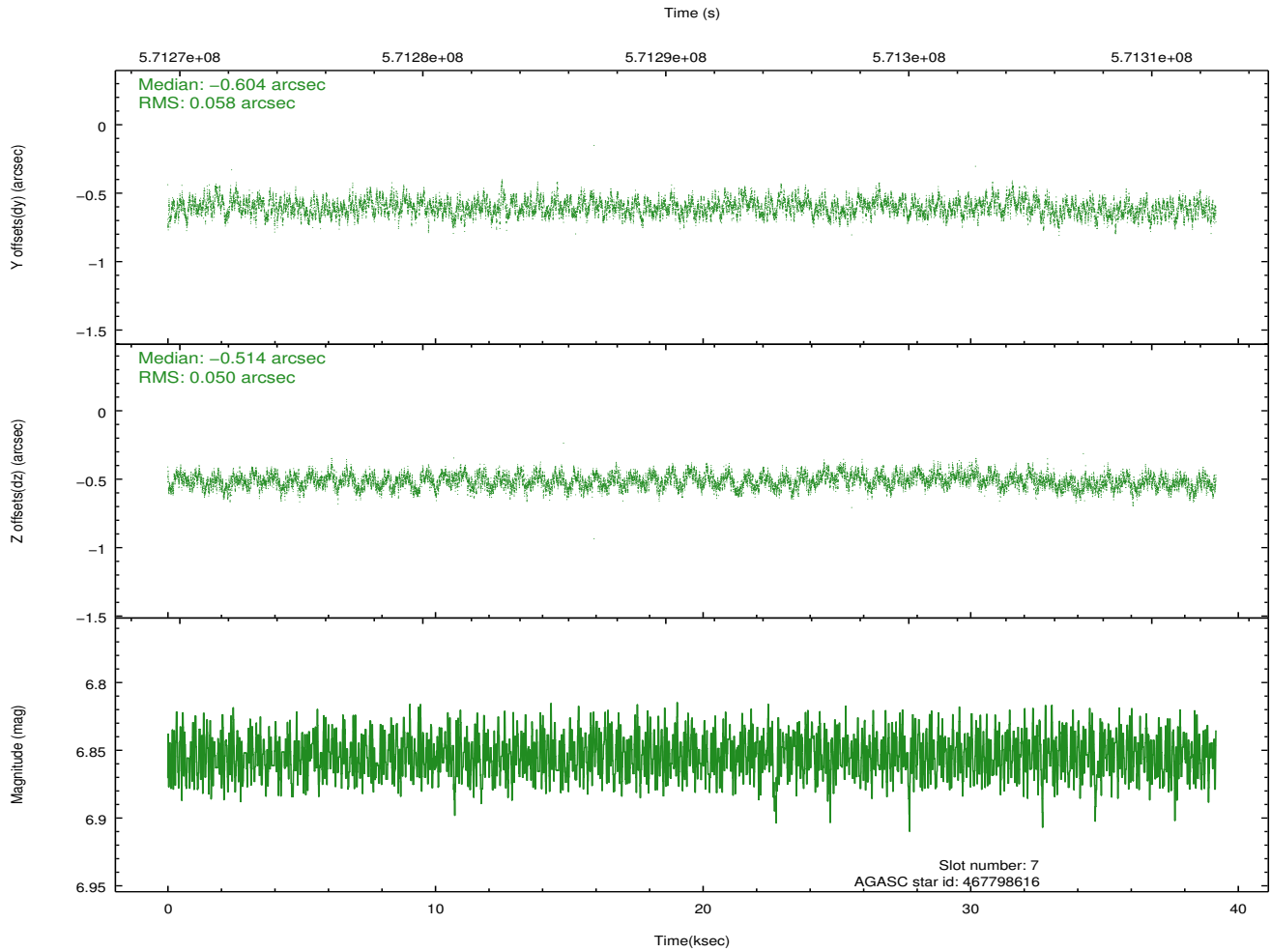
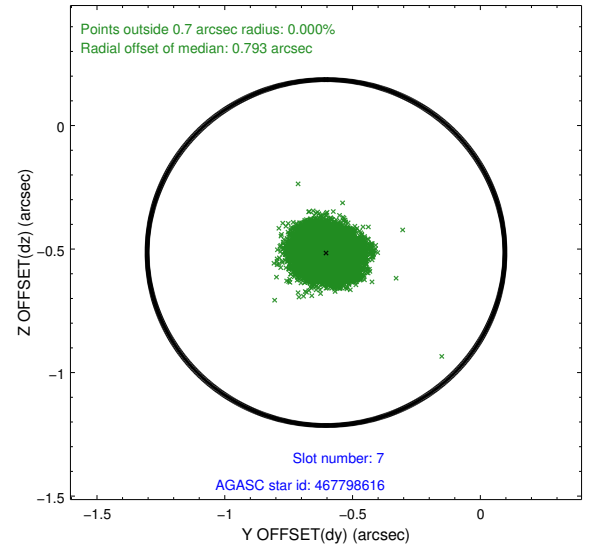
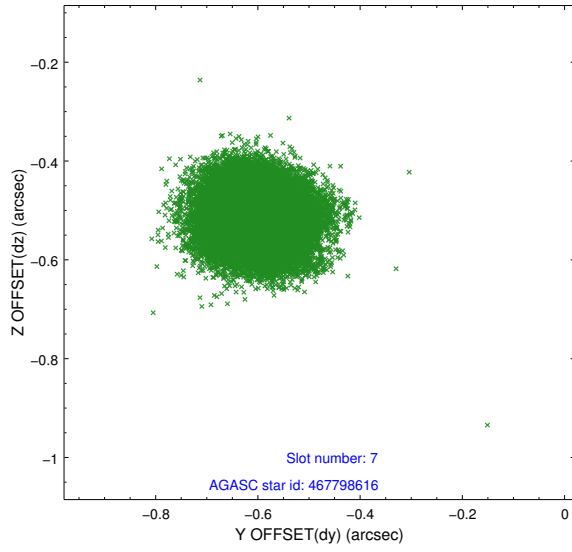
2.4.3 Slot 5



2.4.4 Slot 6

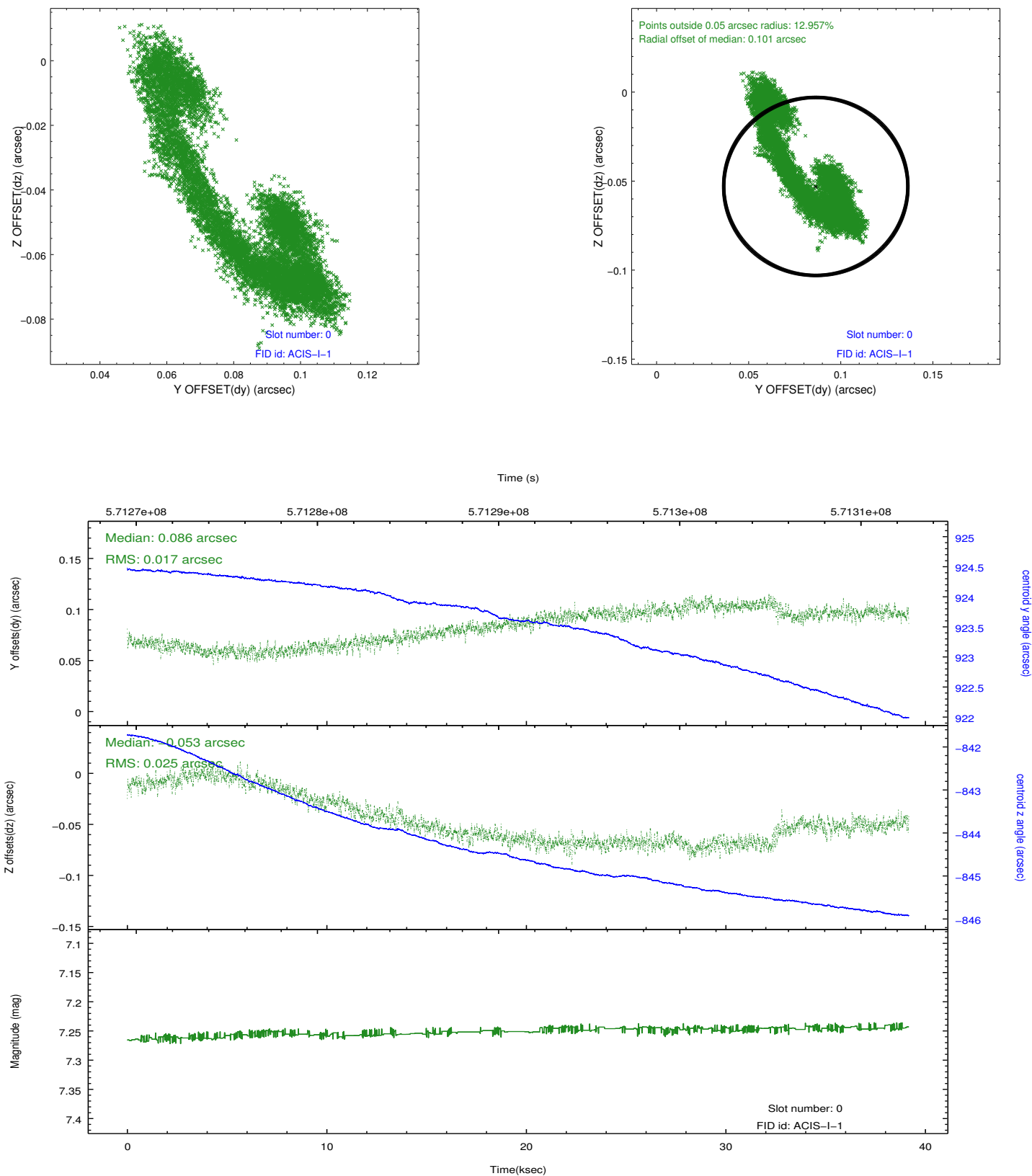


2.4.5 Slot 7

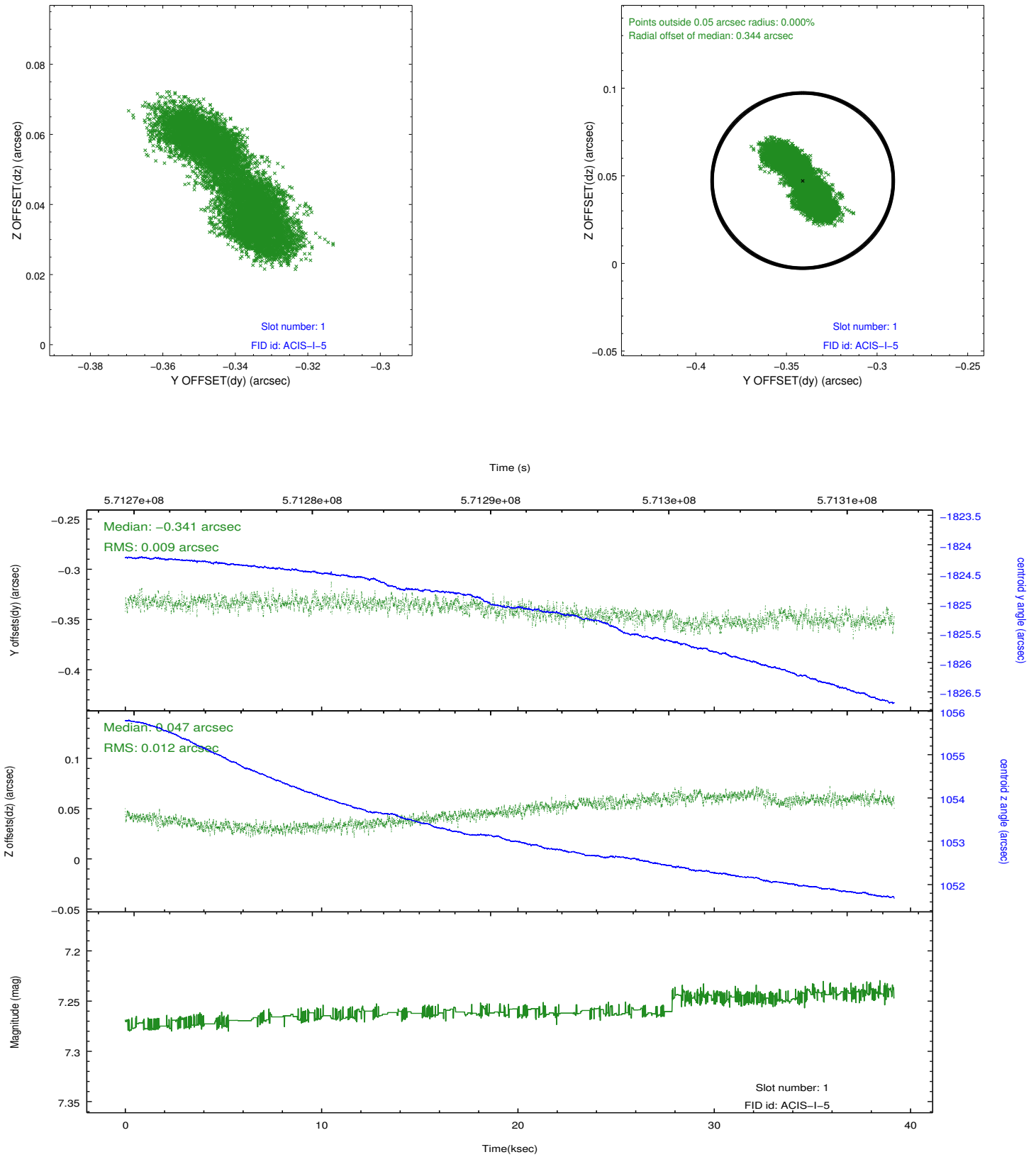


2.5 FID Slots

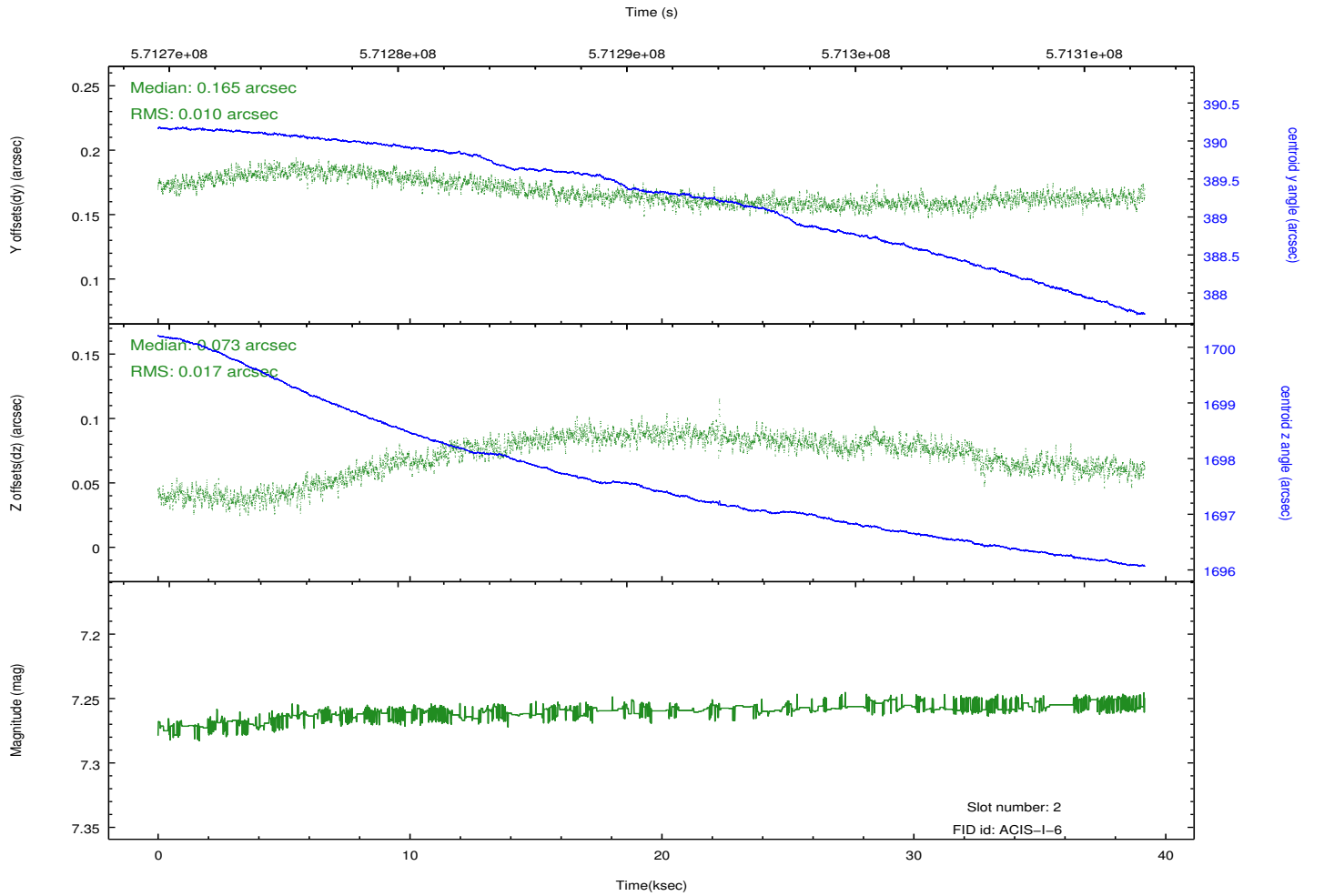
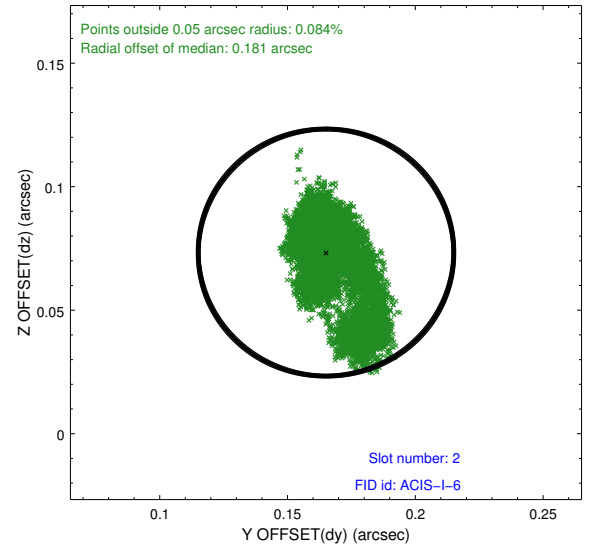
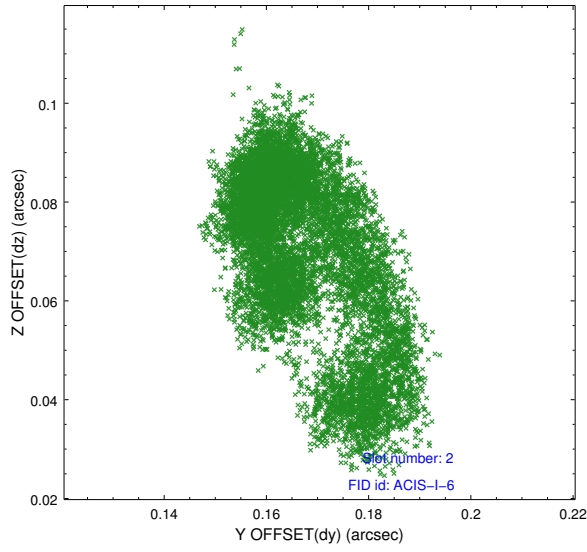
2.5.1 Slot 0



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)	2016.02.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.080497801423

A.2 Comments