

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18033 - L2 Version 1
Chandra X-Ray Center

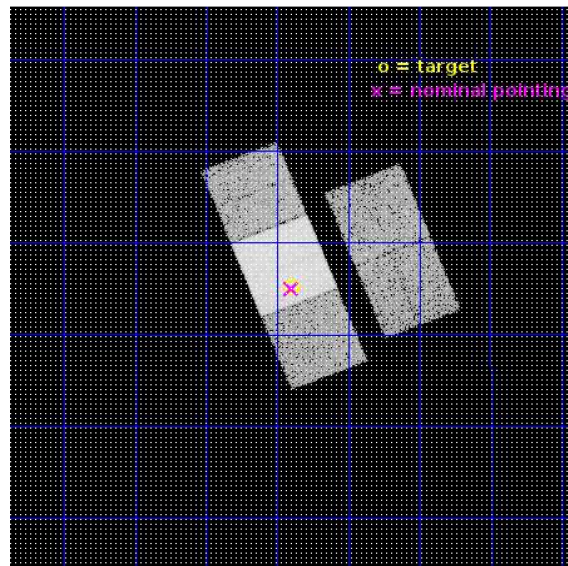
L2 Processing Date : Sep 4 2016

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1 Front

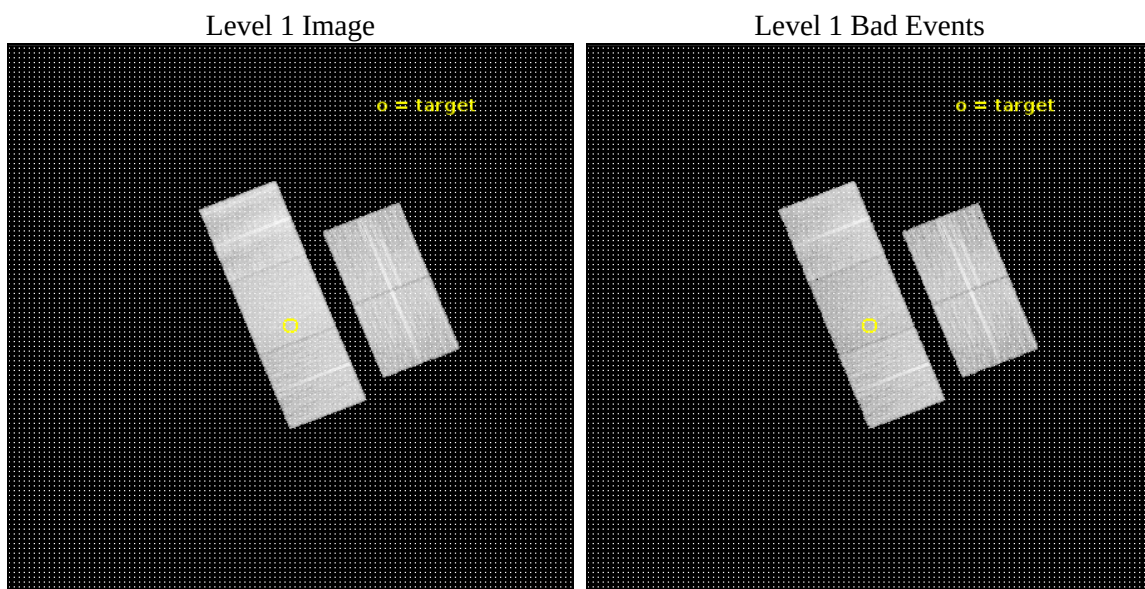
seq_num	502649	Sequence number
obs_id	18033	Observation id
title	The Astrophysics of the Most Energetic Gamma-Ray Bursts	Proposal t
observer	Dr. Andrew Fruchter	Principal investigator
object	GRB160625B	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	308.597946	Observer's specified target RA [deg]
dec_targ	6.918858	Observer's specified target Dec [deg]
ra_nom	308.60006946986	Nominal RA [deg]
dec_nom	6.9164742370446	Nominal Dec [deg]
roll_nom	248.24385841652	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20060.1001544	Sum of GTIs [s]
livetime	19798.000177852	Livetime [s]
ontime2	20060.1001544	Sum of GTIs [s]
ontime3	20060.1001544	Sum of GTIs [s]
ontime6	20060.1001544	Sum of GTIs [s]
ontime7	20060.1001544	Sum of GTIs [s]
ontime8	20060.1001544	Sum of GTIs [s]
l2events	120423	Number of level 2 events



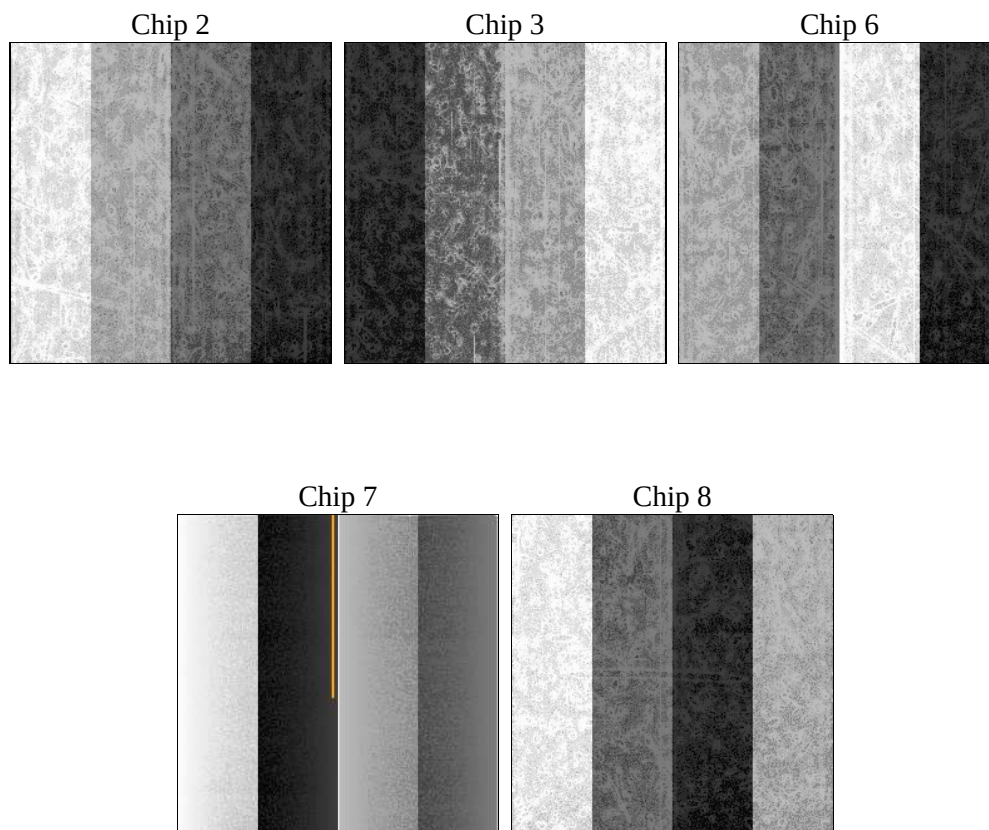
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	20060.1001544	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	20060.1001544	Sum of GTIs [s]
date	2016-09-04T13:09:32	Date and time of file creation	ontime3	20060.1001544	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	20060.1001544	Sum of GTIs [s]
			ontime7	20060.1001544	Sum of GTIs [s]
			ontime8	20060.1001544	Sum of GTIs [s]
			l1events	703785	Number of level 1 events

2.1.4 Events

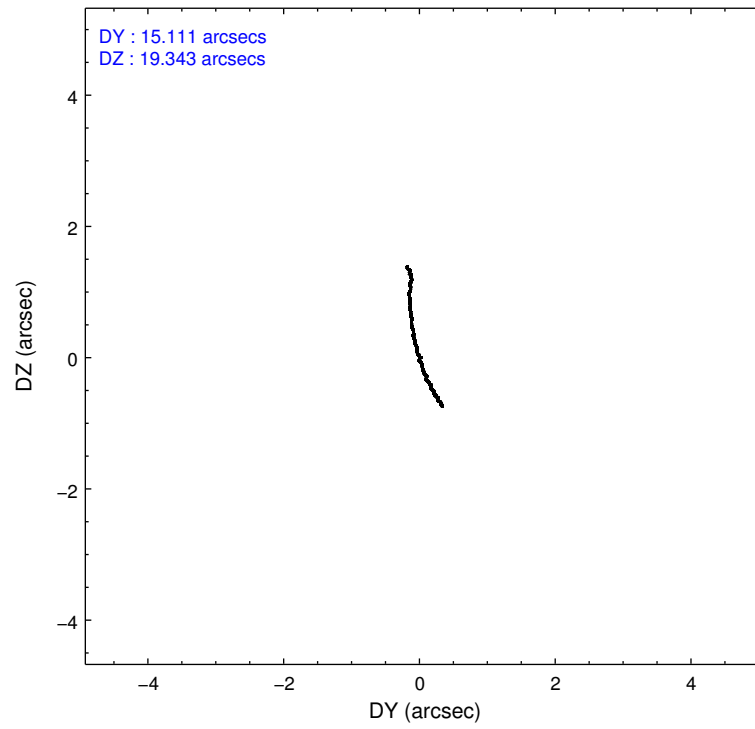
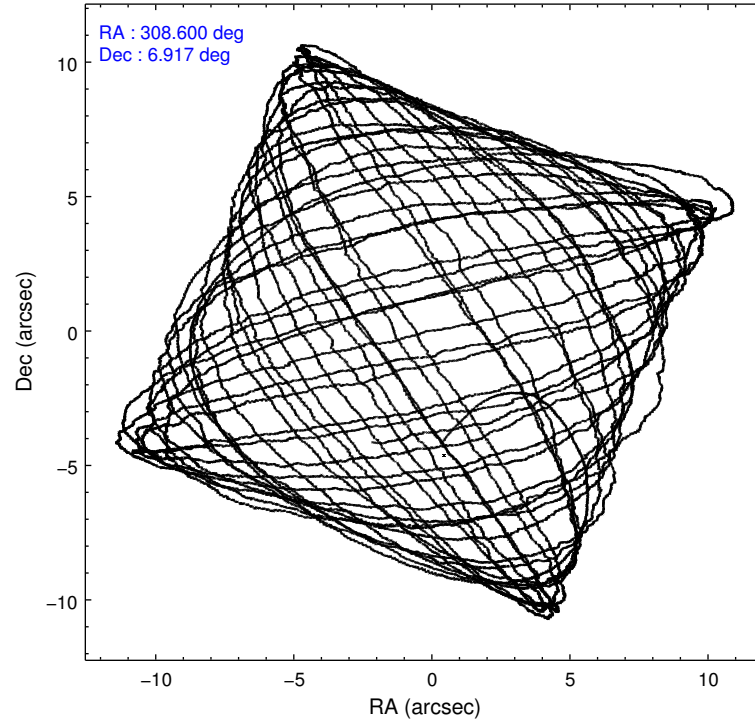
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	119122	123484	127551	165550	168078
rejected events	105289	110140	113049	94026	121384
rejected %	88%	89%	88%	56%	72%

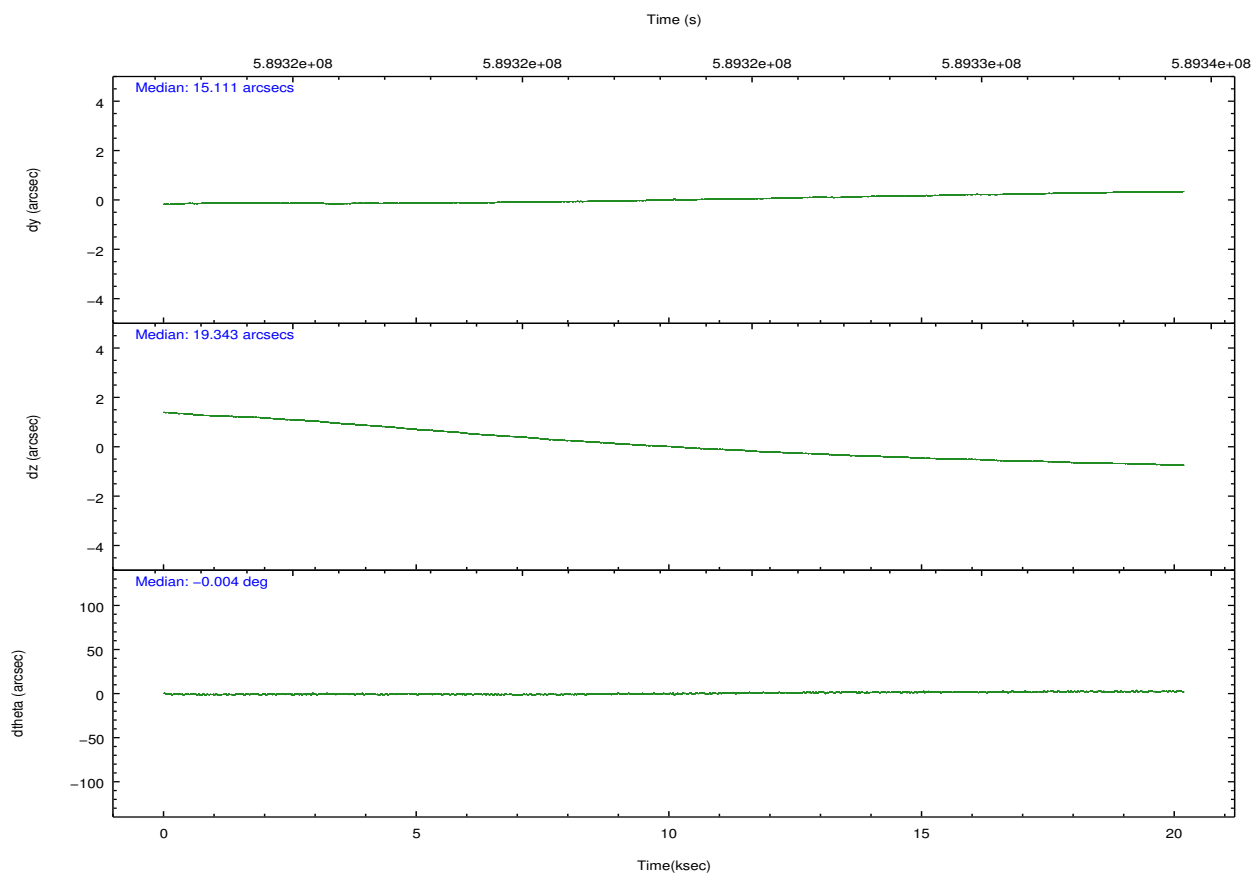
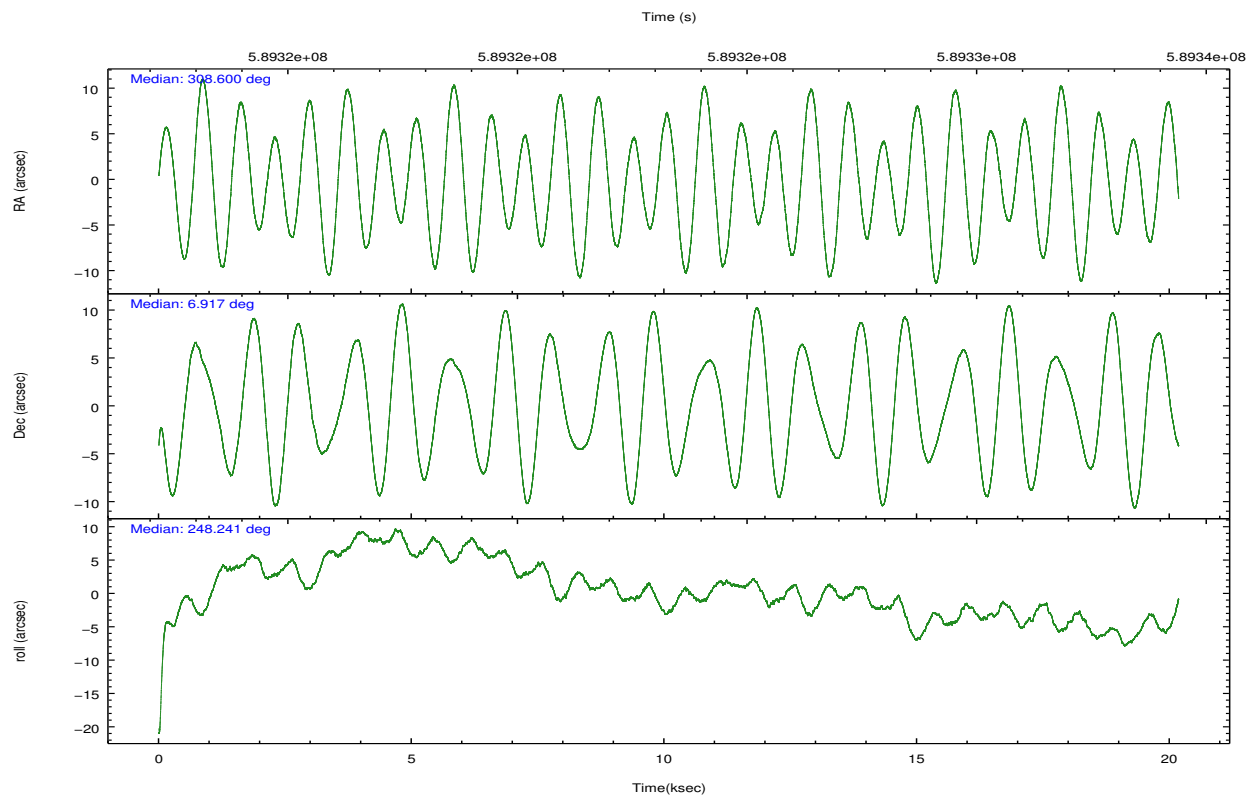
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	4910	4659	4772	6106	13084
	4%	3%	3%	3%	7%
grade 1 events	72	68	62	214	123
	0%	0%	0%	0%	0%
grade 2 events	3418	3022	3469	14995	11383
	2%	2%	2%	9%	6%
grade 3 events	1359	1439	1479	5736	4862
	1%	1%	1%	3%	2%
grade 4 events	1391	1439	1433	5713	4493
	1%	1%	1%	3%	2%
grade 5 events	5203	6380	6185	16762	9100
	4%	5%	4%	10%	5%
grade 6 events	2755	2787	3351	38985	12878
	2%	2%	2%	23%	7%
grade 7 events	100014	103690	106800	77039	112155
	83%	83%	83%	46%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	308.595728	308.6000694698616	Subarray requested	NONE	NONE
[deg] Pointing Dec	6.943601	6.916474237044596	Alternating exposures requested	N	N
[deg] Pointing Roll	248.087768	248.2438584165191	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	588729668.184000	588729668.184000			
[s] Window stop time (MET)	589507268.184000	589507268.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	589313404.184000	589312122.64399			
Observation start date	2016-09-03T18:08:56	2016-09-03T17:48:42			
[s] Observation end time (MET)	589333404.184000	589334095.05775			
Observation end date	2016-09-03T23:42:16	2016-09-03T23:54:55			
Read mode	TIMED	TIMED			

2.3 Aspect



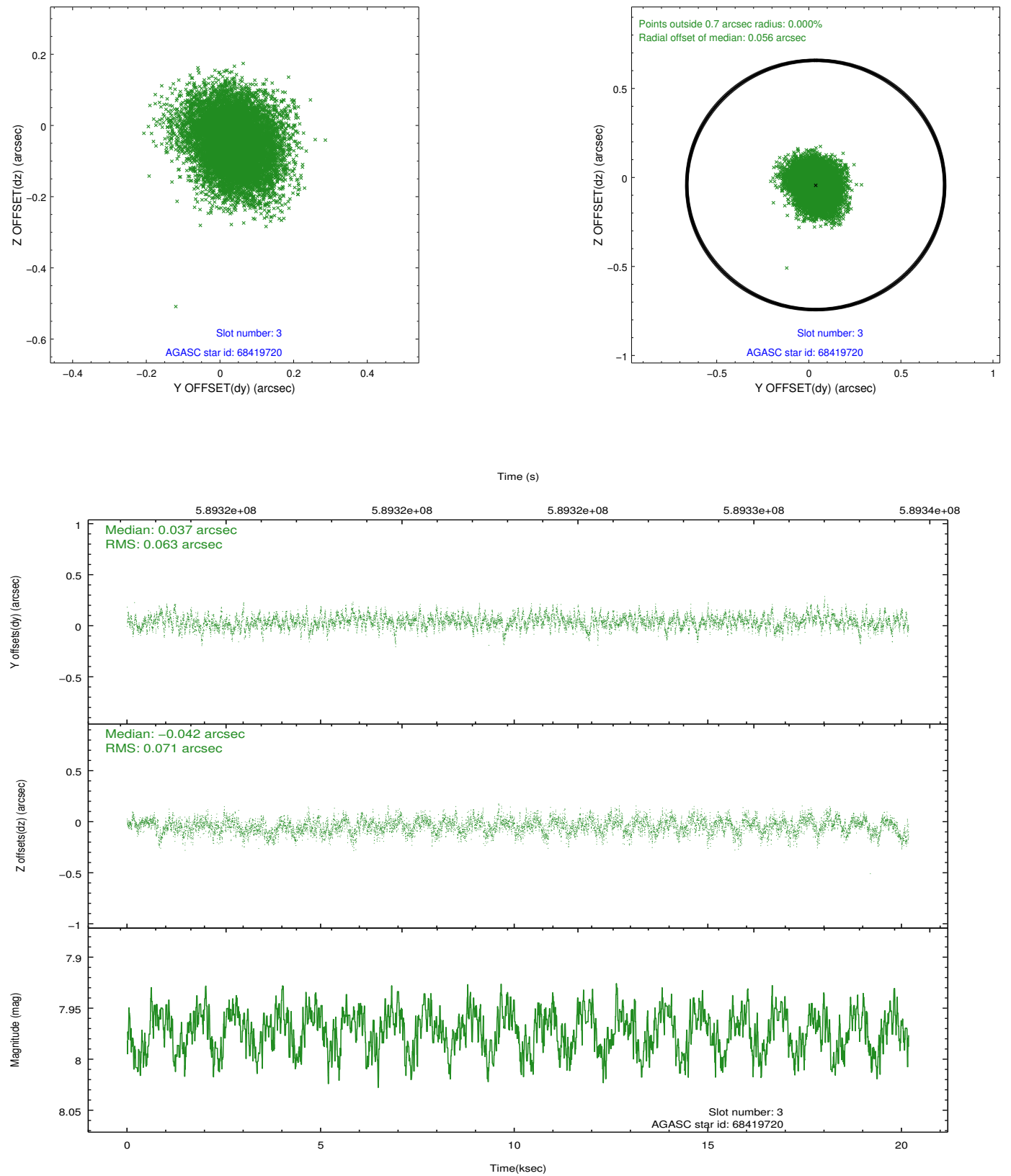


Slot Statistics

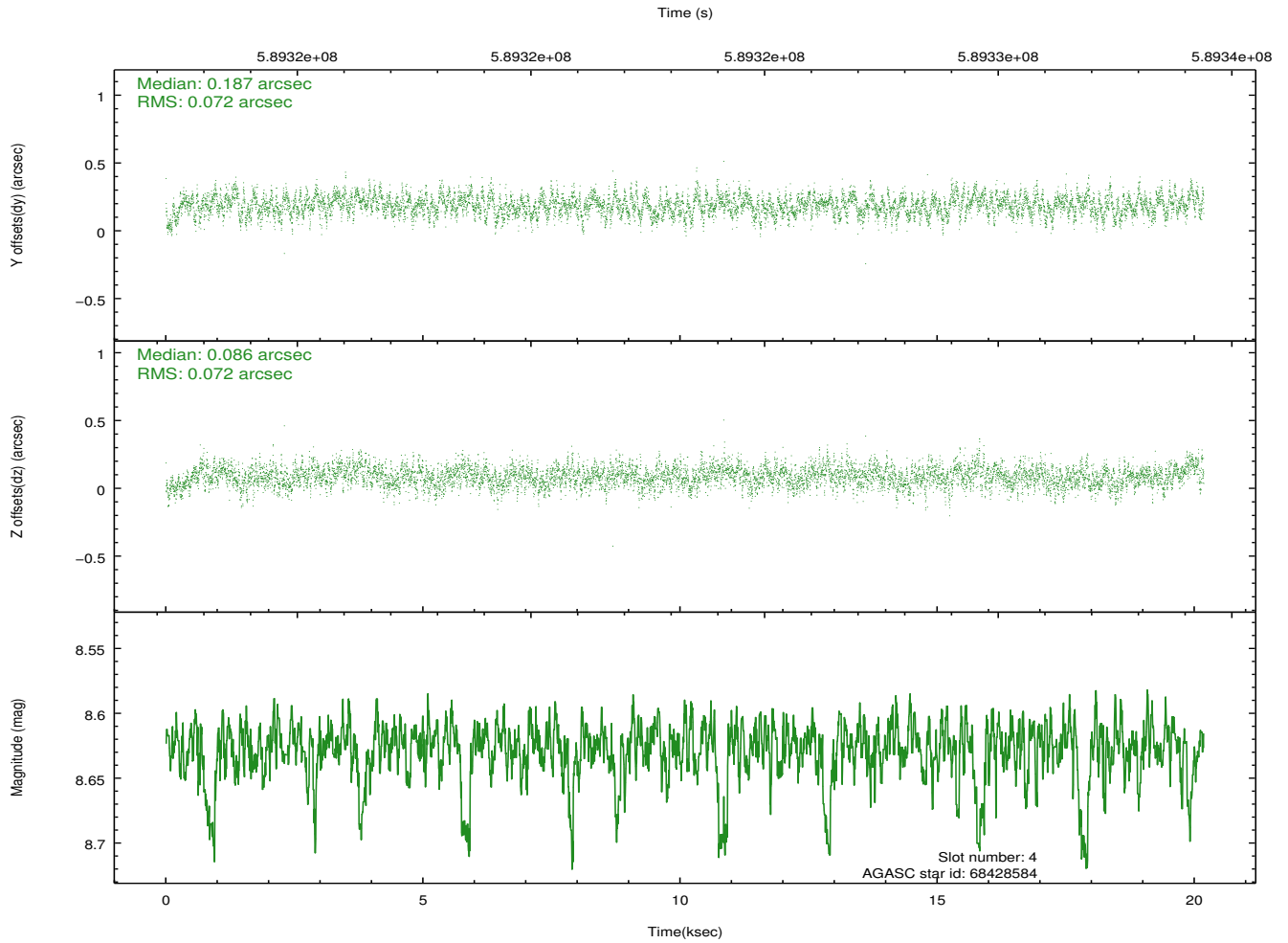
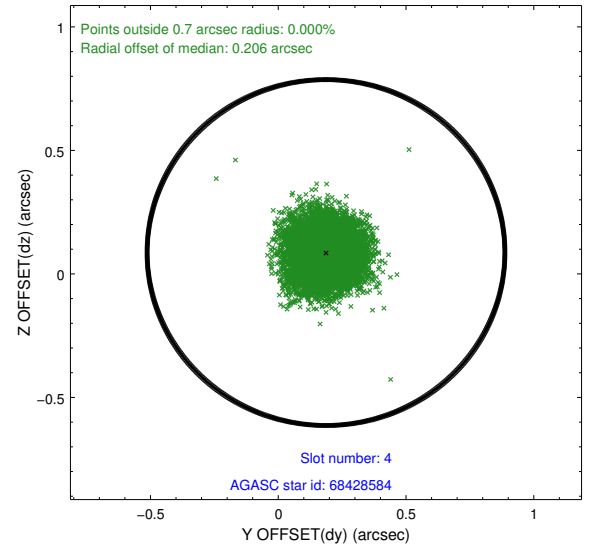
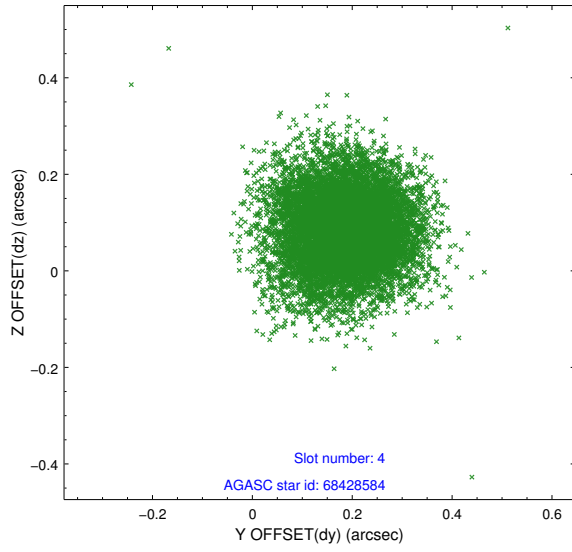
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.99	4922	-0.194	-0.070	0.023	0.031	0.000000	0.000000	-768.30	-1741.00
1	FID		ACIS-S-4	7.09	4922	0.412	0.112	0.007	0.012	0.000000	0.000000	2145.48	167.49
2	FID		ACIS-S-5	7.10	4921	-0.251	-0.034	0.021	0.030	0.000000	0.000000	-1820.98	161.21
3	GUIDE	used	68419720	7.97	9842	0.037	-0.042	0.100	0.165	308.776991	7.263129	-1308.39	171.55
4	GUIDE	used	68428584	8.63	9838	0.187	0.086	0.108	0.175	308.099966	6.517570	2083.44	-1071.71
5	GUIDE	used	68430312	7.52	9841	-0.070	-0.501	0.094	0.154	308.749482	6.535620	1157.66	1058.53
6	GUIDE	used	68430608	7.29	9844	0.098	0.108	0.082	0.137	307.936353	6.632150	1919.53	-1769.53
7	GUIDE	used	68426832	9.11	9837	-0.254	0.352	0.119	0.199	309.317003	7.328979	-2250.02	1871.18

2.4 Star Slots

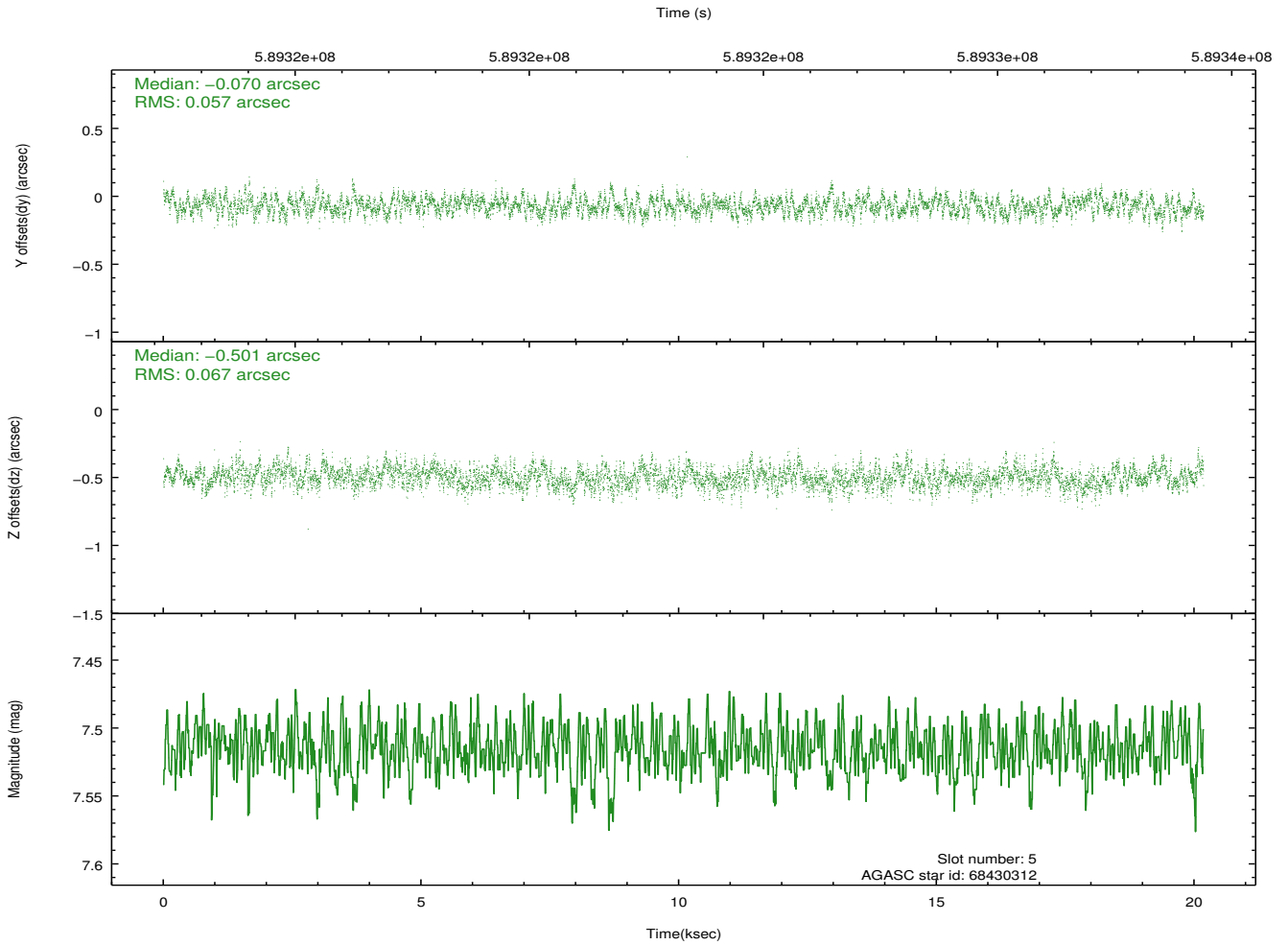
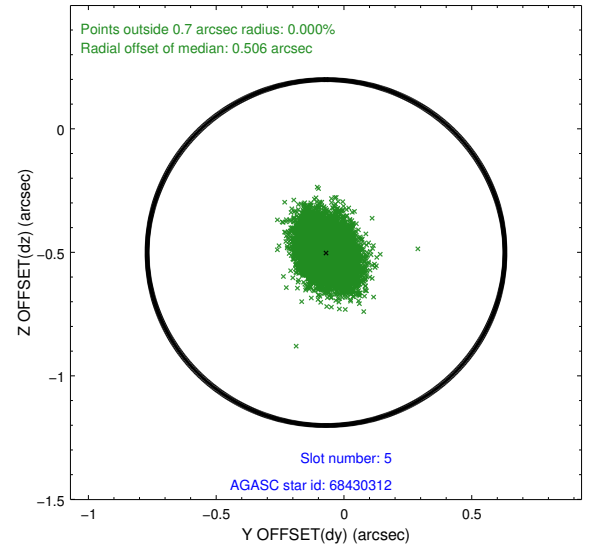
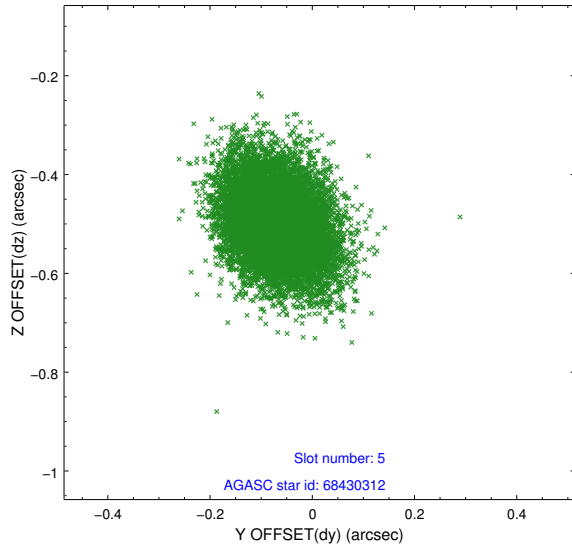
2.4.1 Slot 3



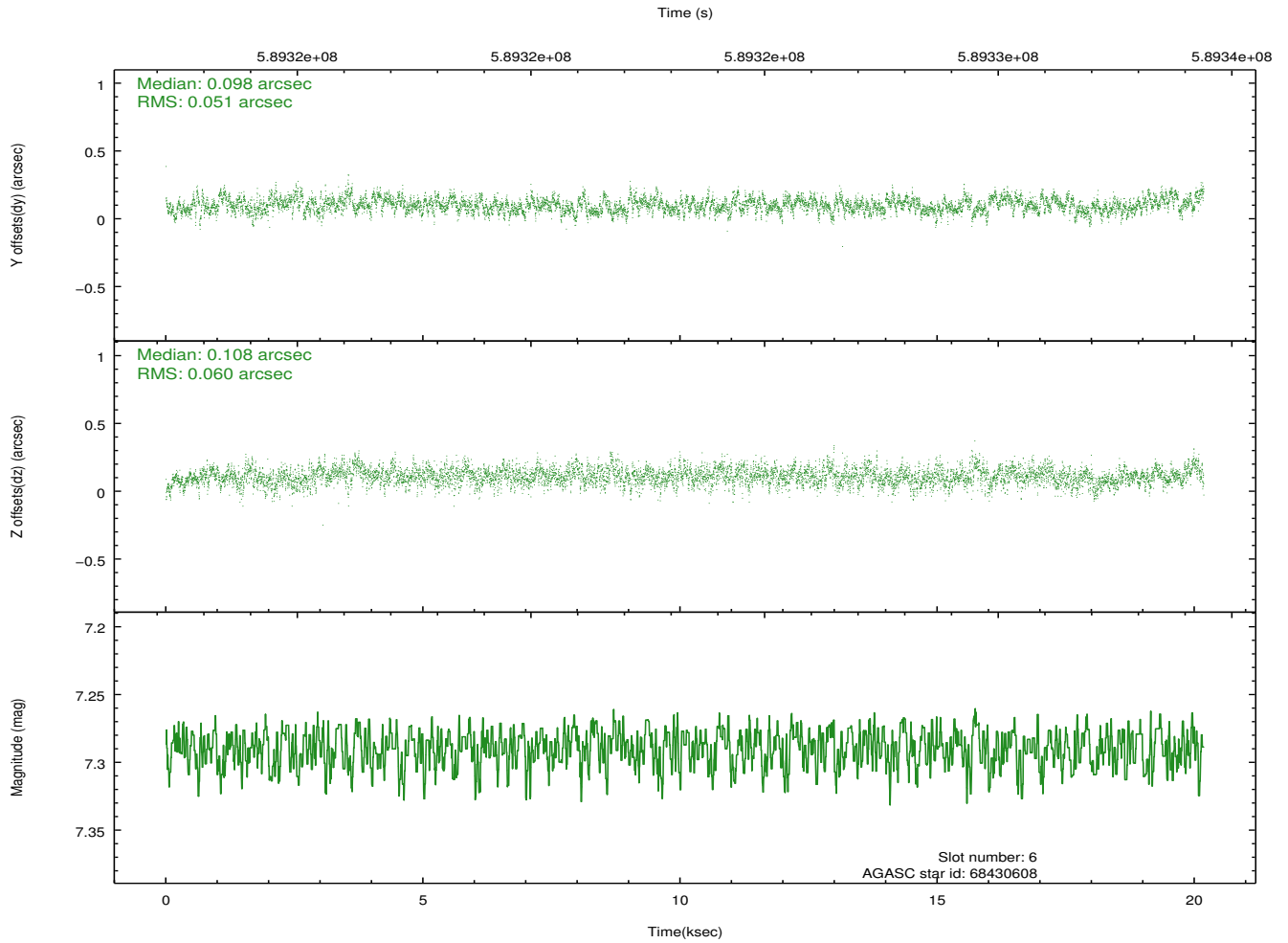
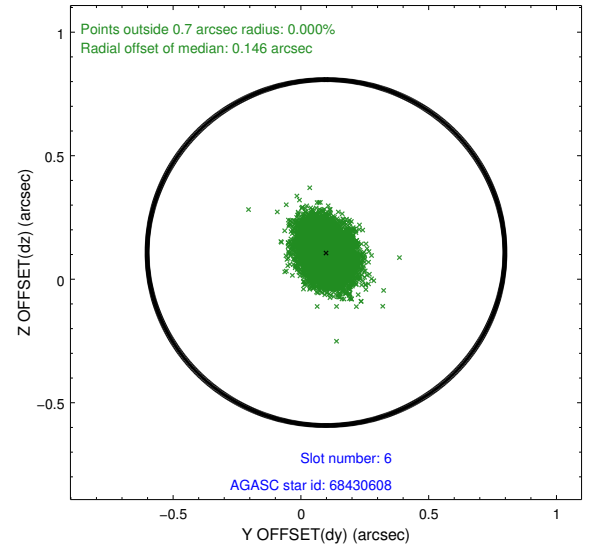
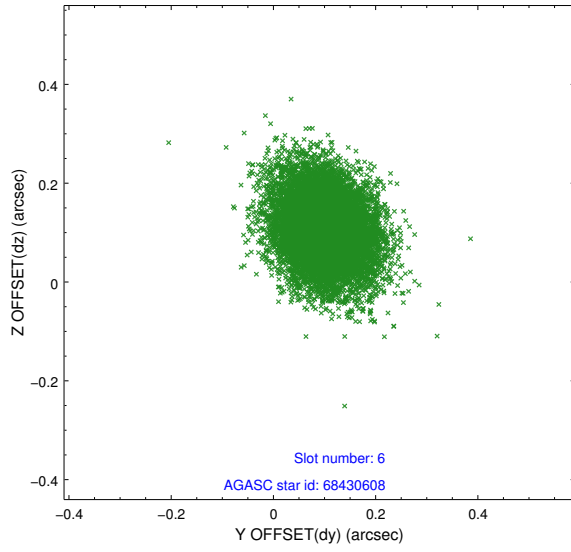
2.4.2 Slot 4



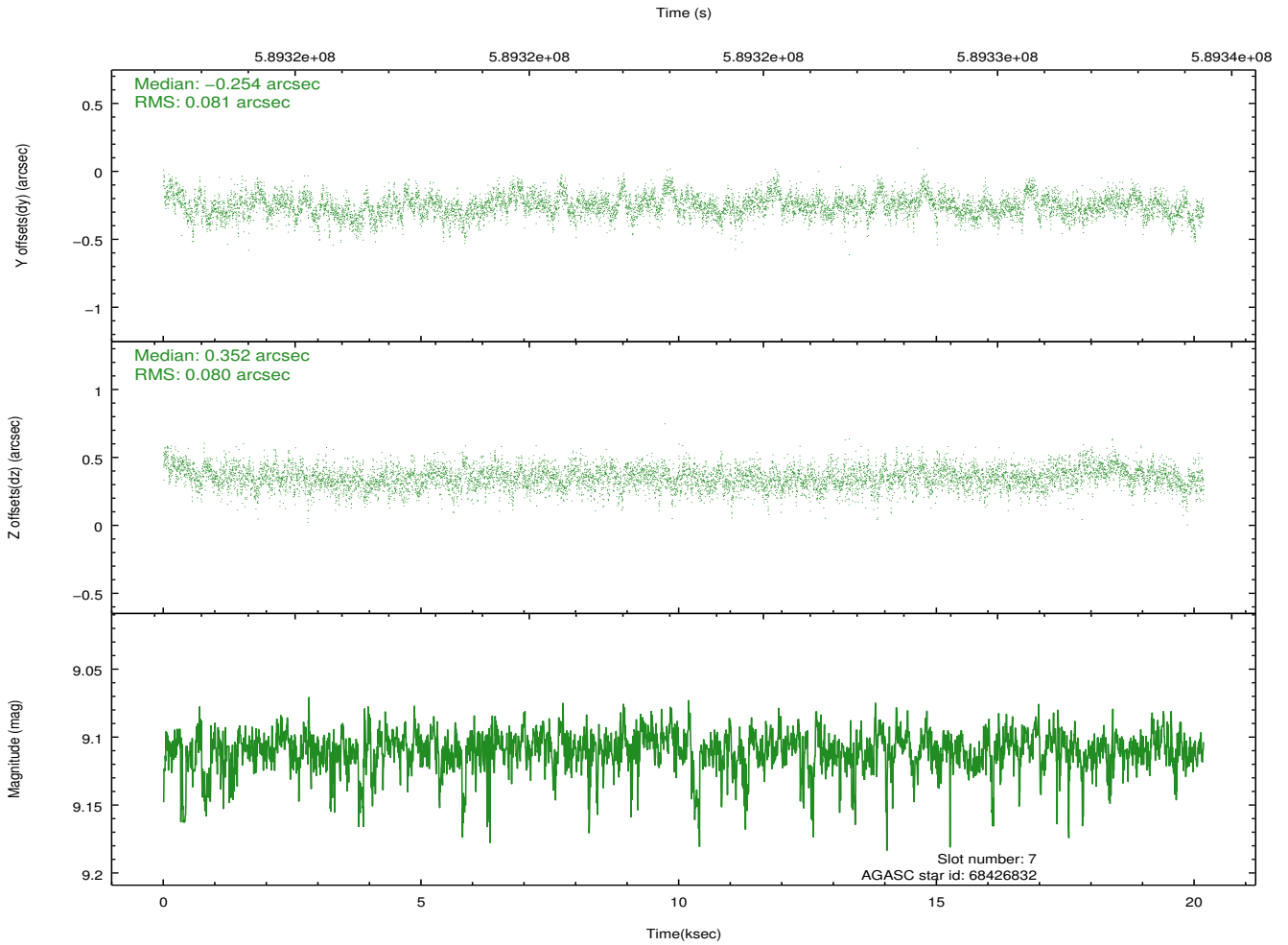
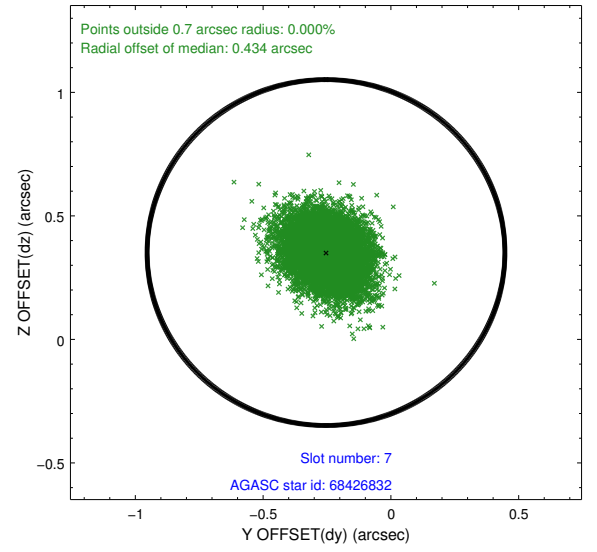
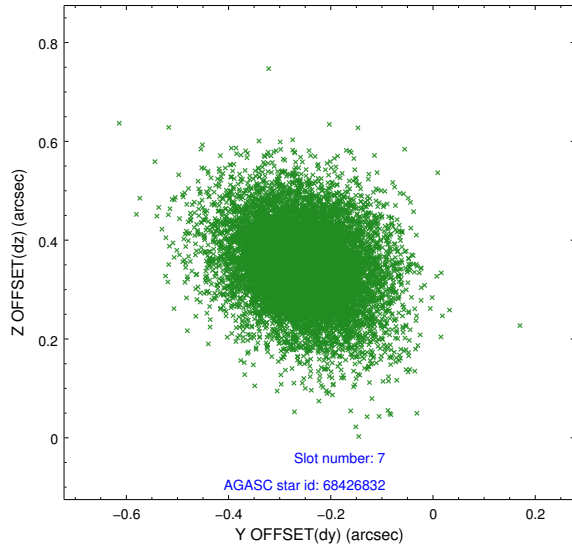
2.4.3 Slot 5



2.4.4 Slot 6

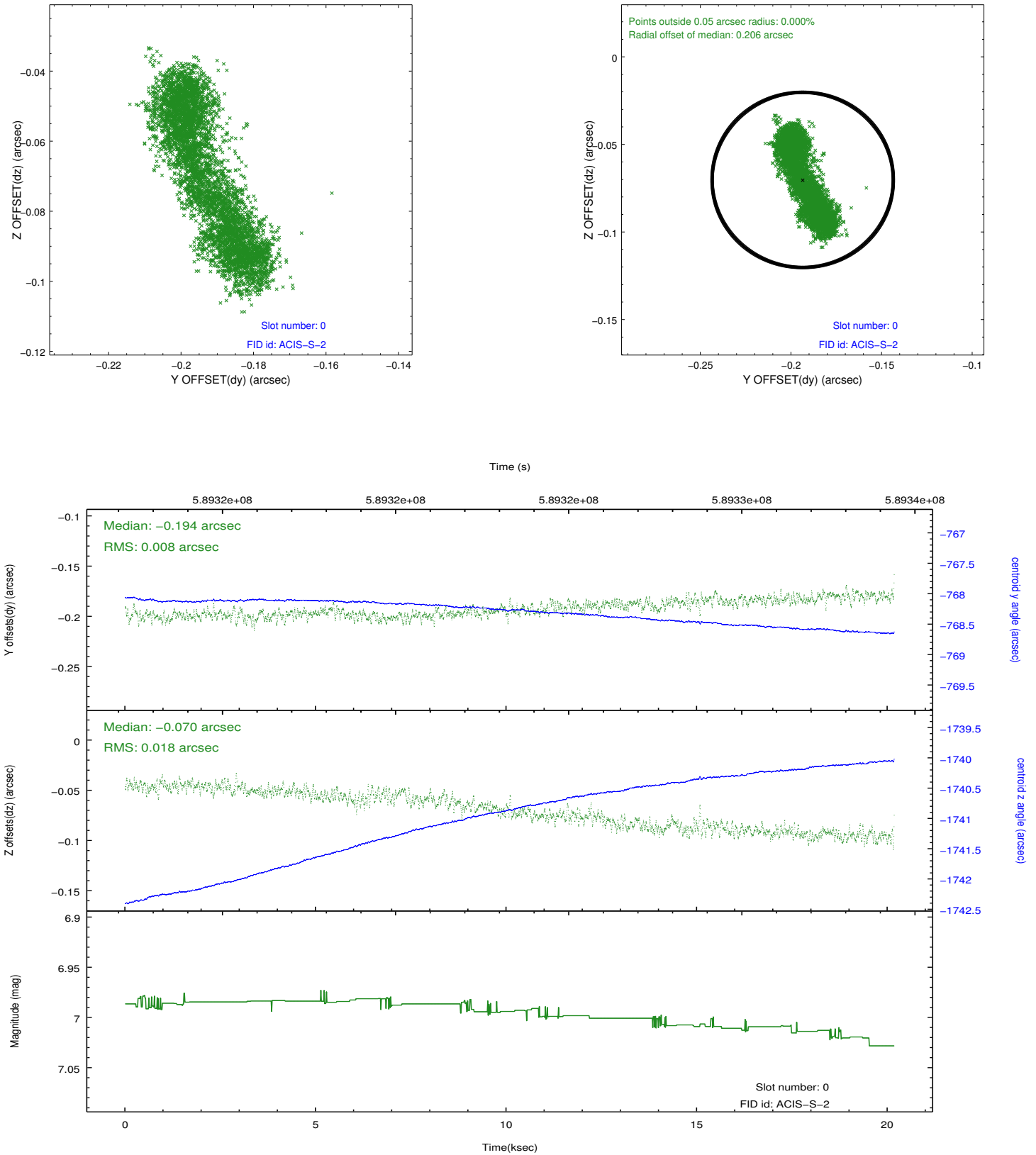


2.4.5 Slot 7

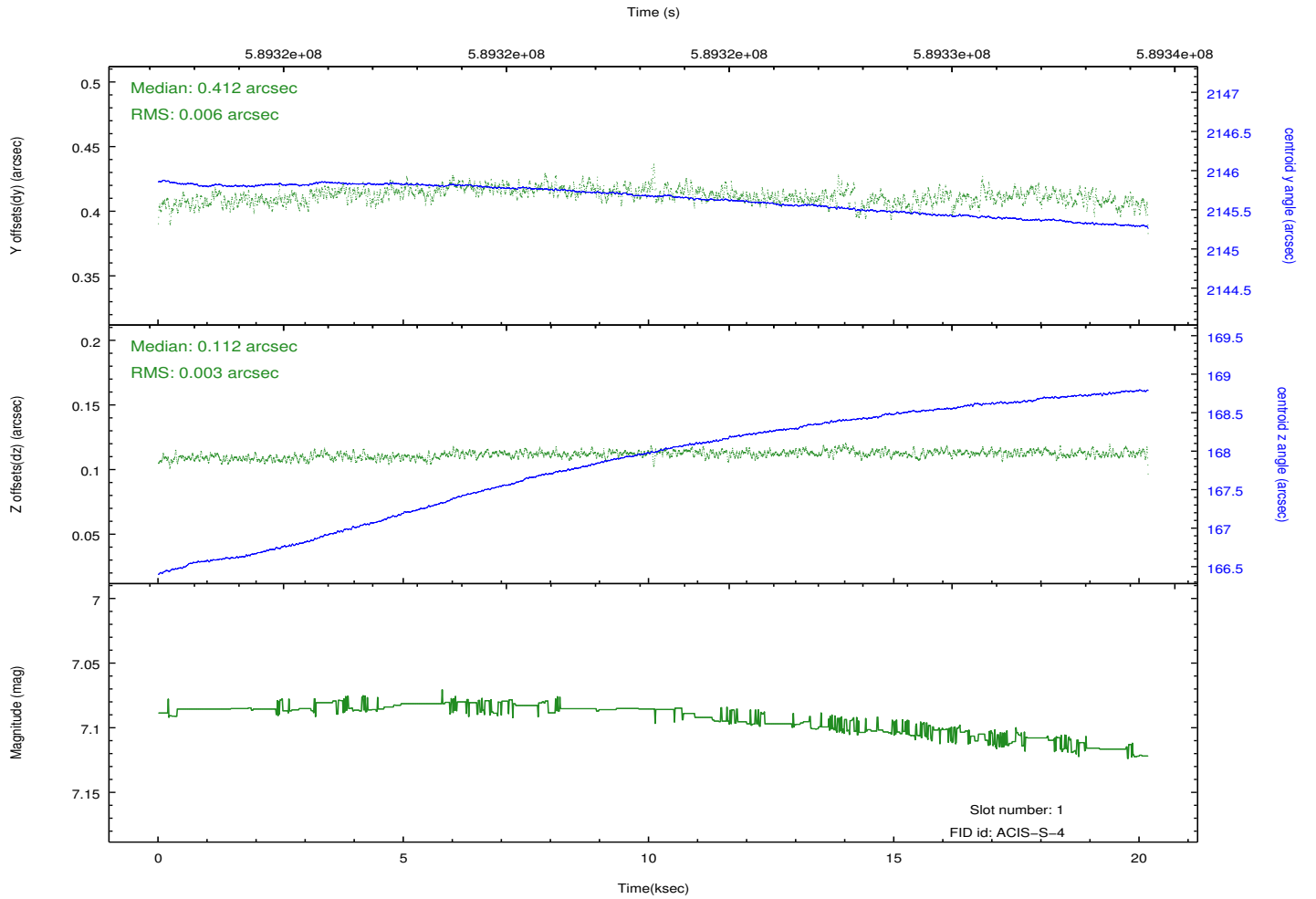
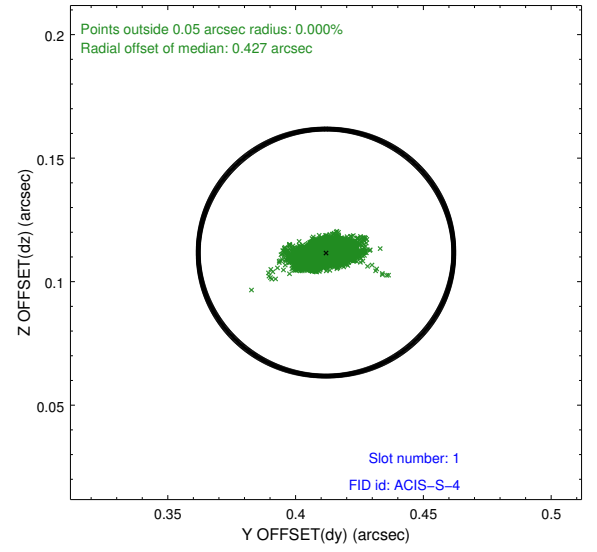
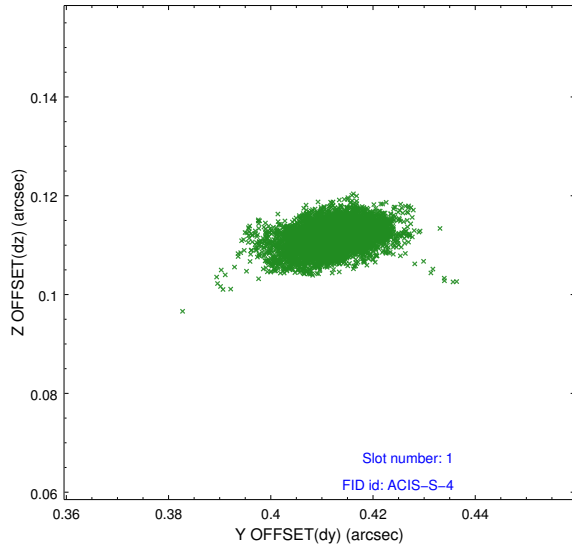


2.5 FID Slots

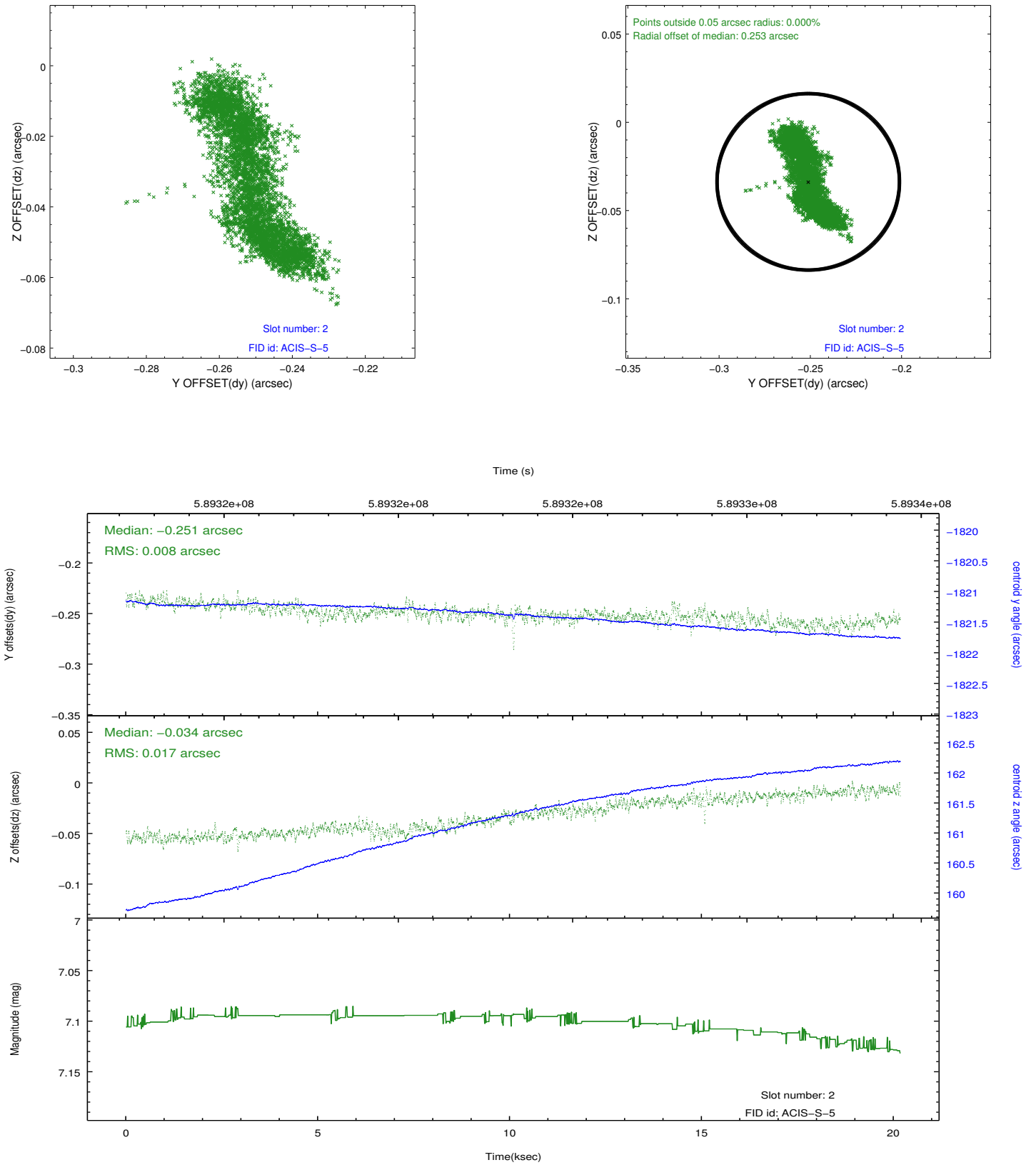
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.09.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.0601001544

A.2 Comments

Joint proposal with HST and NRAO.

Window preference met.