

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 17905 - L2 Version 2
Chandra X-Ray Center

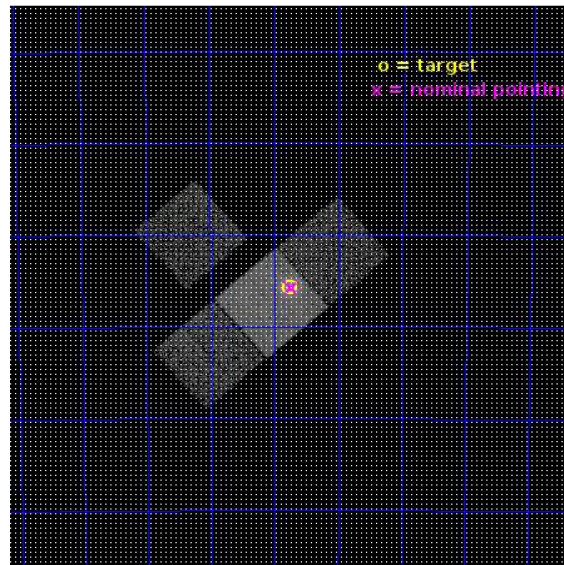
L2 Processing Date : Dec 9 2016

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1 Front

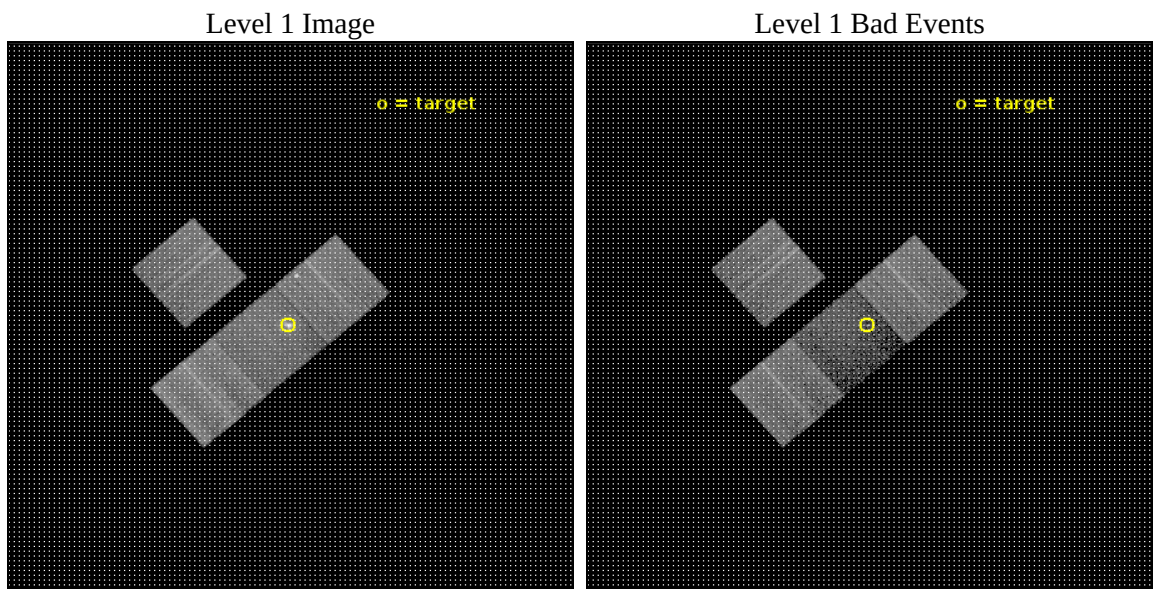
seq_num	502524	Sequence number
obs_id	17905	Observation id
title	A Search for Expansion and Brightness Changes in the Young Supernova Remnant/Pulsar-Wind Nebula G310.6-1.6	Proposal title
observer	Stephen Reynolds	Principal investigator
object	G310.6-1.6	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	210.190417	Observer's specified target RA [deg]
dec_targ	-63.4285	Observer's specified target Dec [deg]
ra_nom	210.18384777843	Nominal RA [deg]
dec_nom	-63.429709447739	Nominal Dec [deg]
roll_nom	139.08898564011	Nominal Roll [deg]
revision	2	Processing version of data
ontime	14089.214094877	Sum of GTIs [s]
livetime	13905.128140399	Livetime [s]
ontime3	14089.132014871	Sum of GTIs [s]
ontime6	14086.032084584	Sum of GTIs [s]
ontime7	14089.214094877	Sum of GTIs [s]
ontime8	14089.090974927	Sum of GTIs [s]
l2events	64371	Number of level 2 events



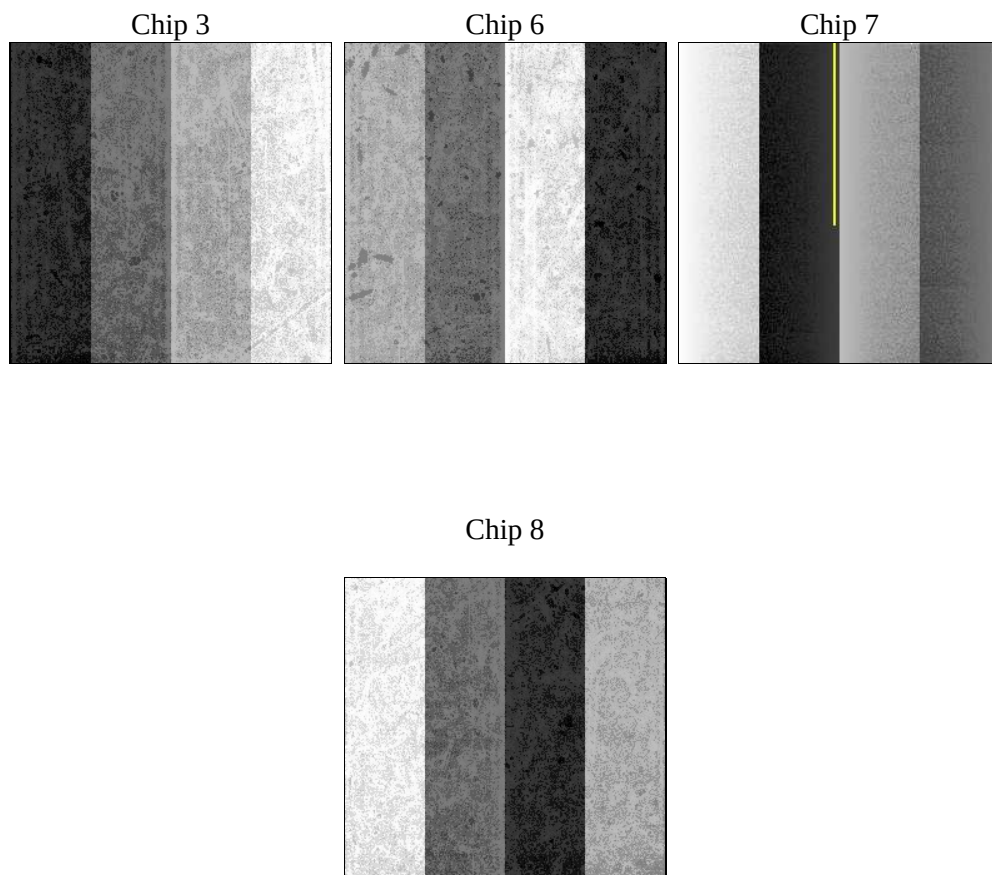
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	14000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	14089.214094877	Sum of GTIs [s]
caldbver	4.7.2	 	ontime3	14089.132014871	Sum of GTIs [s]
date	2016-12-09T15:07:12	Date and time of file creation	ontime6	14086.032084584	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	14089.214094877	Sum of GTIs [s]
			ontime8	14089.090974927	Sum of GTIs [s]
			l1events	321488	Number of level 1 events

2.1.4 Events

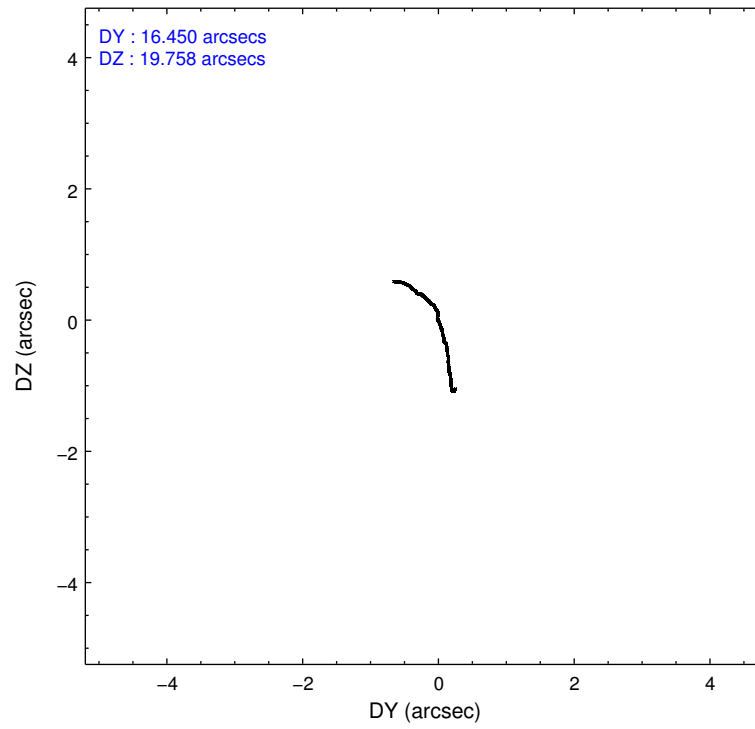
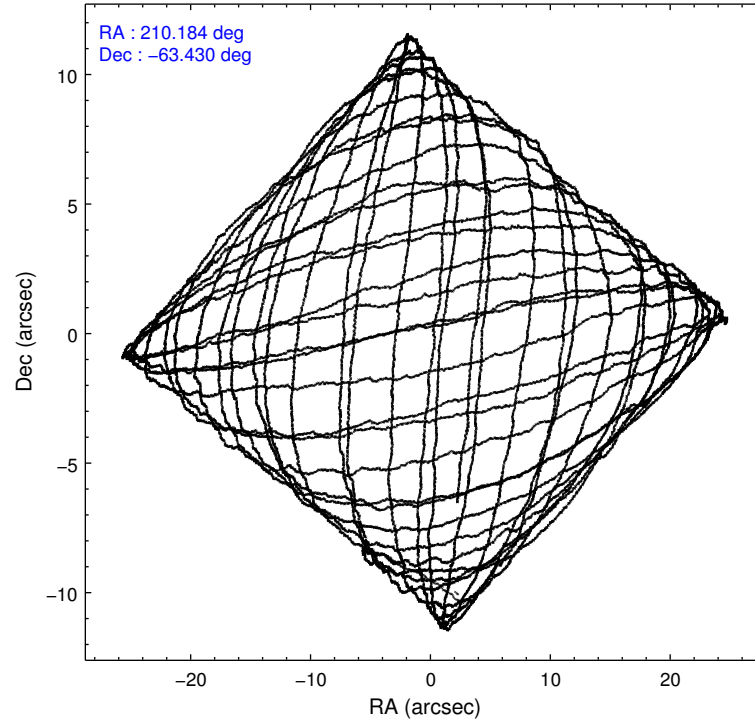
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	74200	83724	69101	94463
rejected events	67210	72126	24606	66899
rejected %	90%	86%	35%	70%

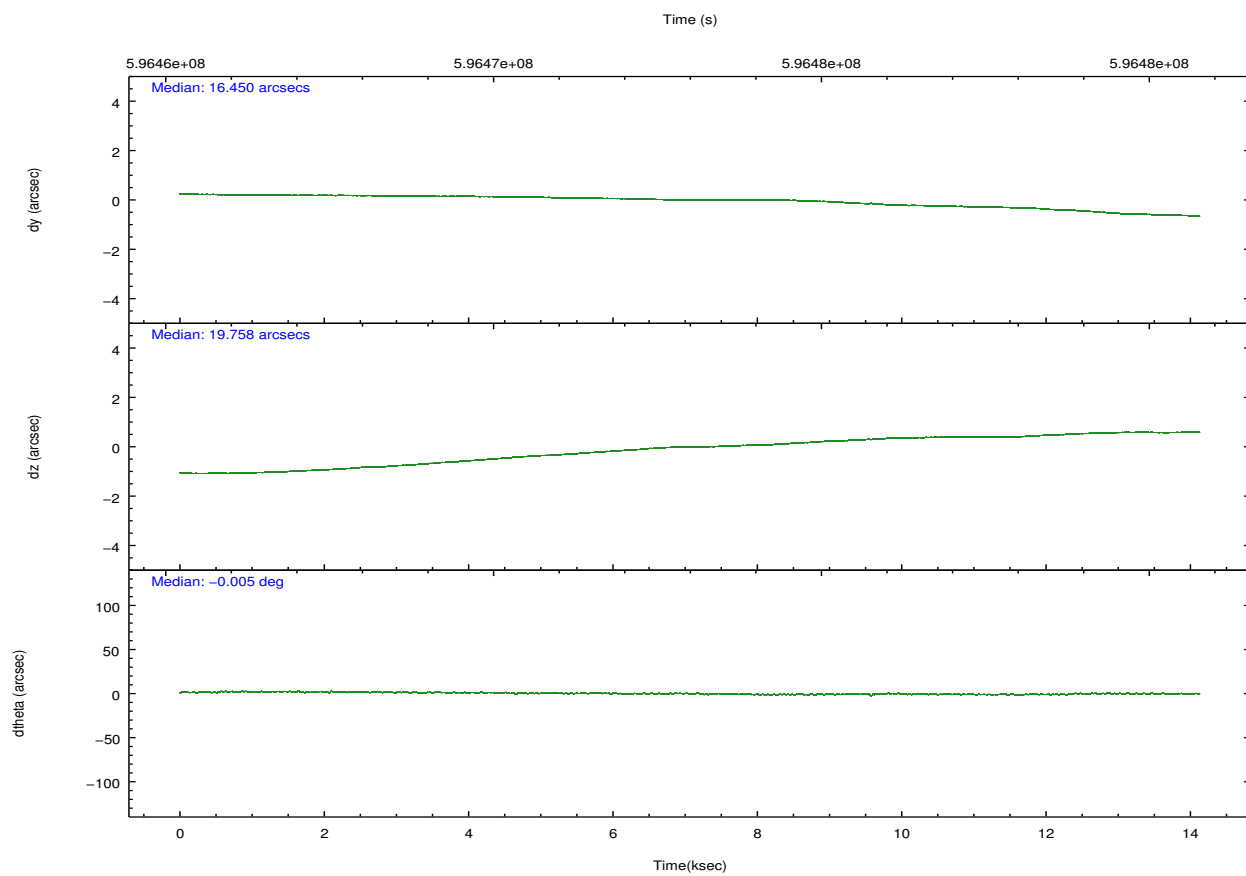
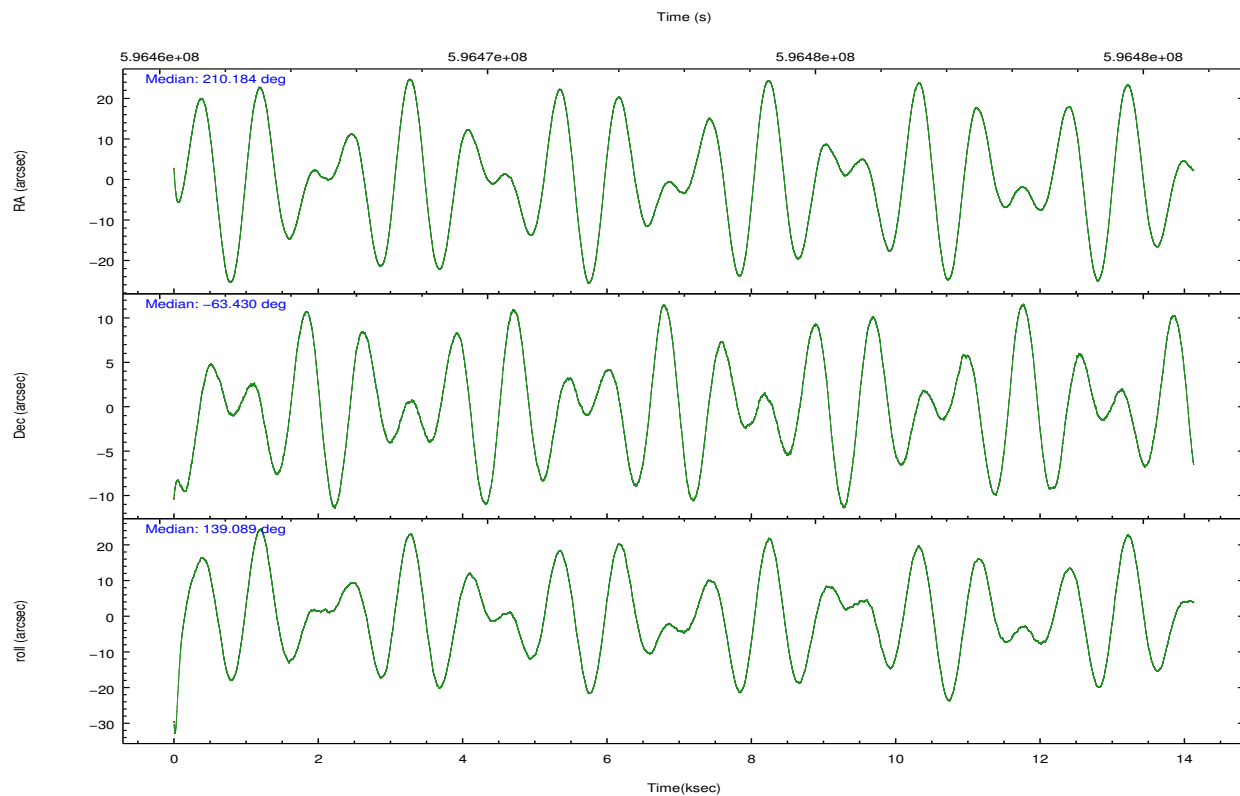
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2910	6898	6506	7893
	3%	8%	9%	8%
grade 1 events	46	52	130	80
	0%	0%	0%	0%
grade 2 events	1539	1852	11088	6762
	2%	2%	16%	7%
grade 3 events	736	789	4363	2826
	0%	0%	6%	2%
grade 4 events	714	738	4425	2587
	0%	0%	6%	2%
grade 5 events	1860	1862	5773	3315
	2%	2%	8%	3%
grade 6 events	1091	1324	18121	7499
	1%	1%	26%	7%
grade 7 events	65304	70209	18695	63501
	88%	83%	27%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	210.244243	210.1838477784329	CCD I2 on	N	N
[deg] Pointing Dec	-63.434532	-63.42970944773853	CCD I3 on	O1	Y
[deg] Pointing Roll	138.986406	139.0889856401149	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	596466069.184000	596464804.70623	CCD S5 on	N	N
Observation start date	2016-11-25T13:00:01	2016-11-25T12:40:04	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	596480069.184000	596481249.80717	On-chip summing requested	N	N
Observation end date	2016-11-25T16:53:21	2016-11-25T17:14:09	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



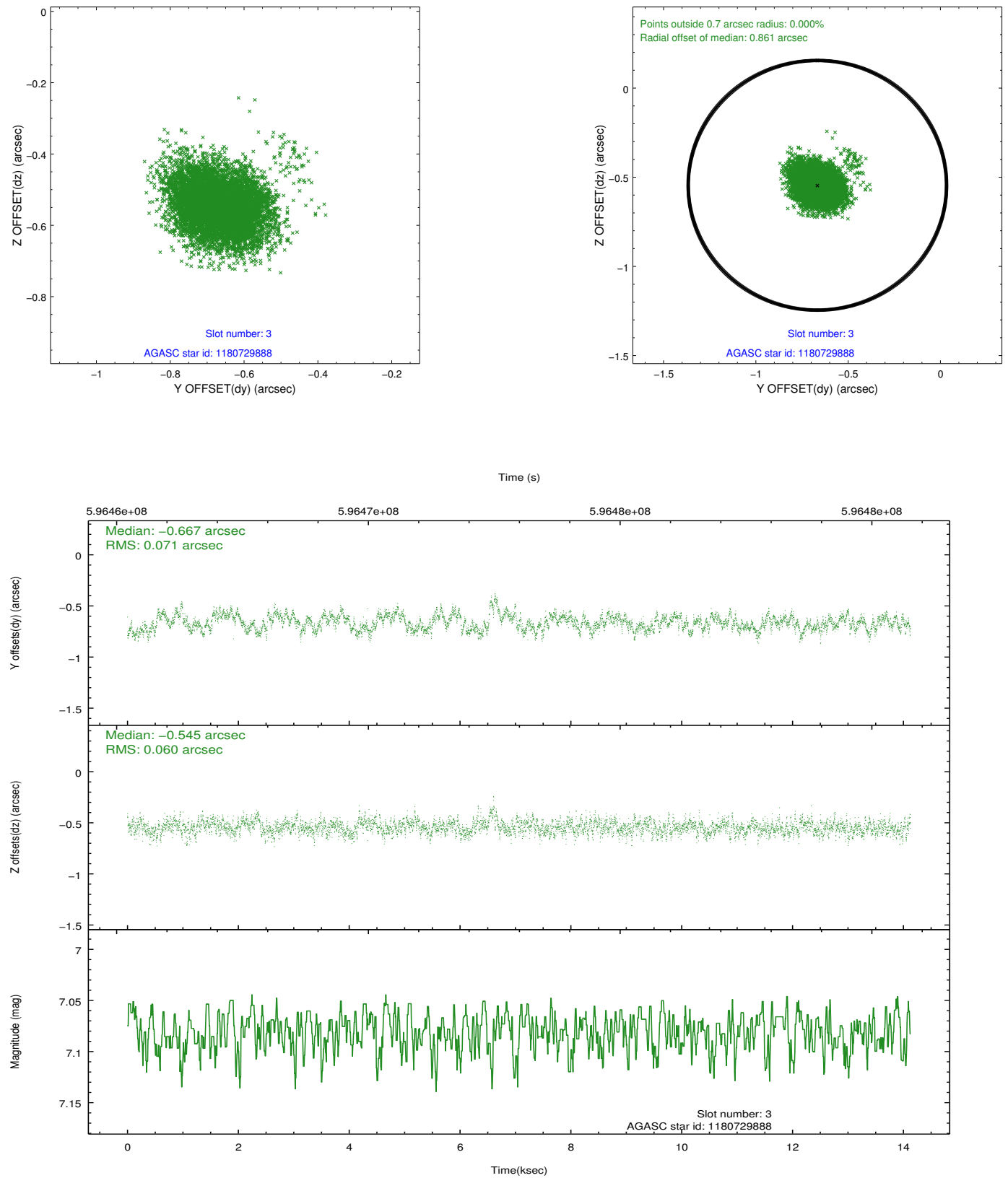


Slot Statistics

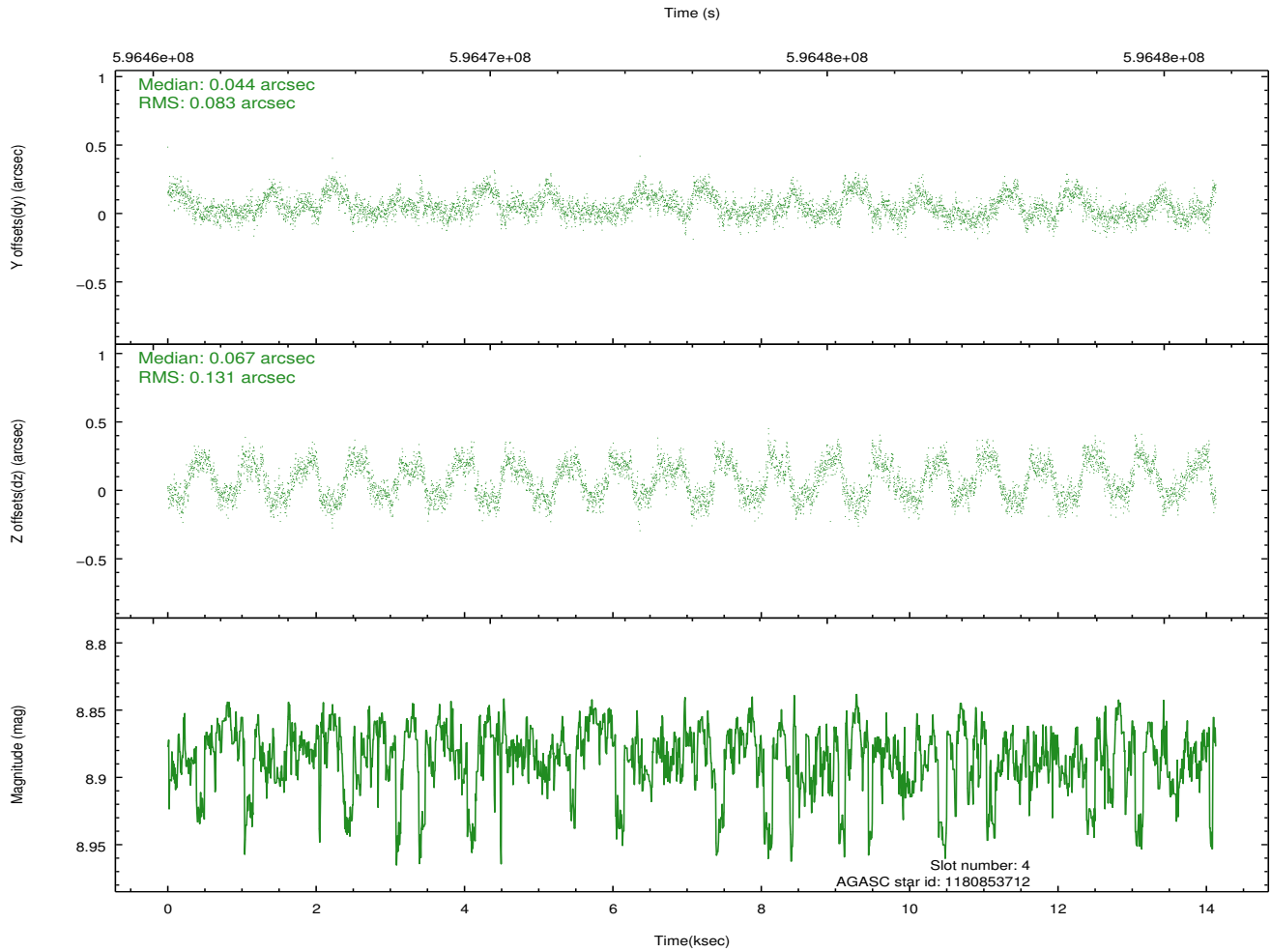
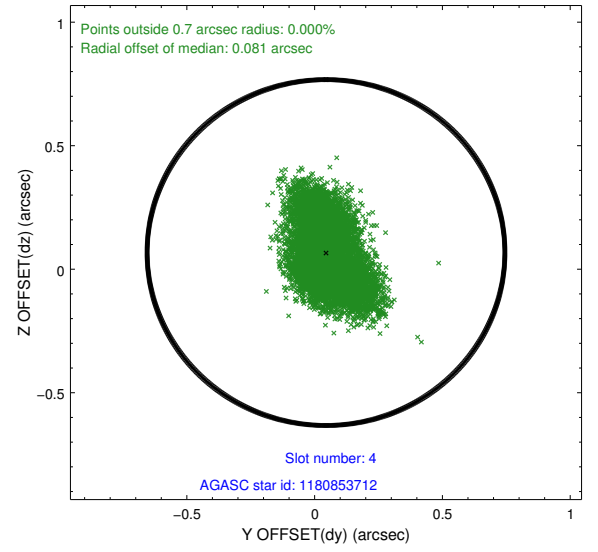
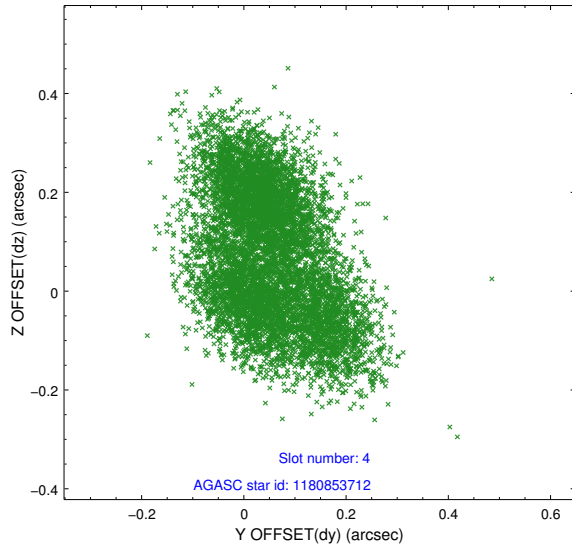
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.02	3447	-0.208	-0.109	0.029	0.041	0.000000	0.000000	-769.57	-1741.24
1	FID		ACIS-S-4	7.14	3447	0.467	0.129	0.008	0.014	0.000000	0.000000	2144.20	167.18
2	FID		ACIS-S-5	7.12	3447	-0.291	-0.012	0.033	0.047	0.000000	0.000000	-1822.11	161.03
3	GUIDE	used	1180729888	7.08	6893	-0.667	-0.545	0.099	0.157	209.075631	-63.565145	1093.23	1596.77
4	GUIDE	used	1180853712	8.88	6885	0.044	0.067	0.168	0.255	210.053788	-63.077742	1077.41	-764.54
5	GUIDE	used	1181358272	8.51	6890	-0.000	-0.085	0.092	0.155	210.845135	-63.958092	-1955.95	802.40
6	GUIDE	used	1180858176	8.74	6820	0.453	0.503	0.099	0.165	211.543919	-63.606624	-1989.16	-880.55
7	GUIDE	used	1181358704	9.32	6886	0.163	0.059	0.144	0.234	210.964162	-63.823492	-1785.59	311.34

2.4 Star Slots

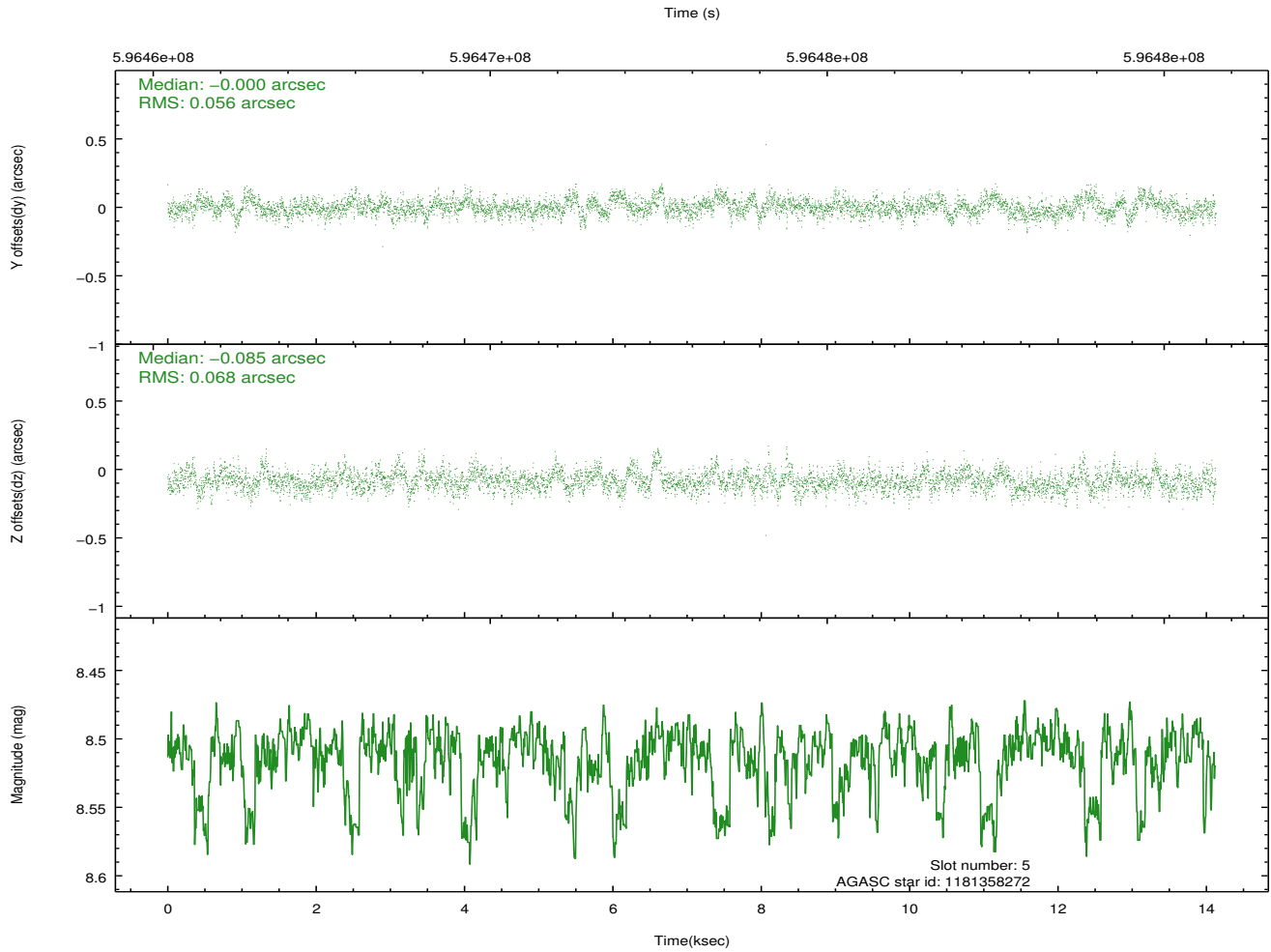
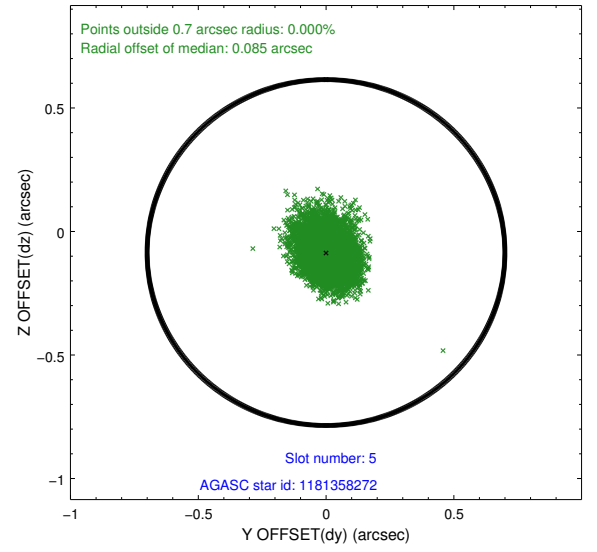
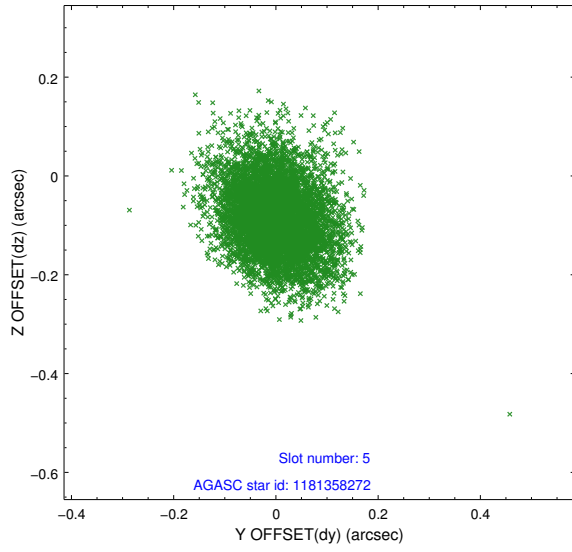
2.4.1 Slot 3



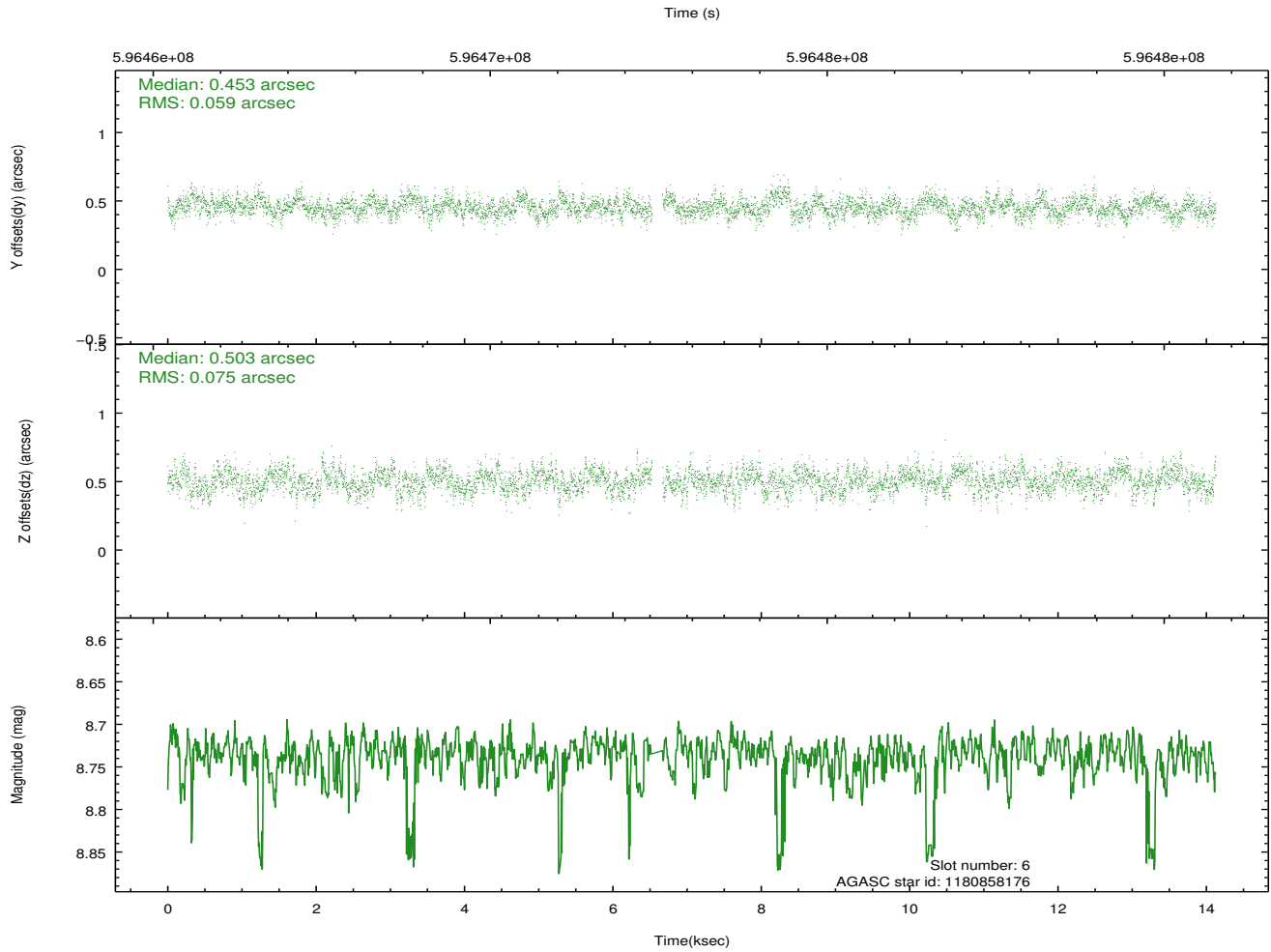
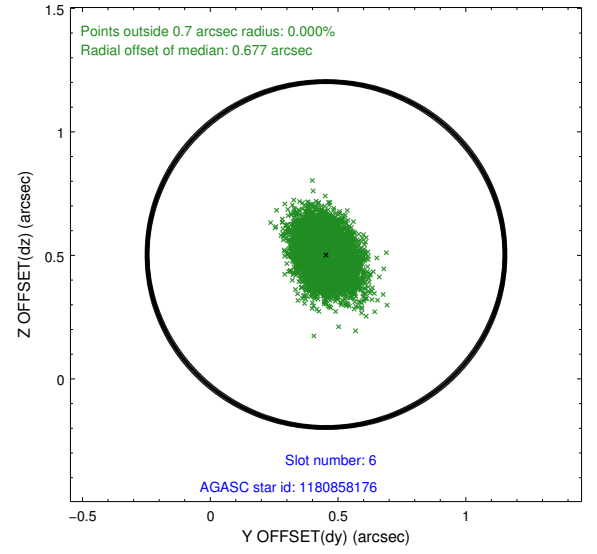
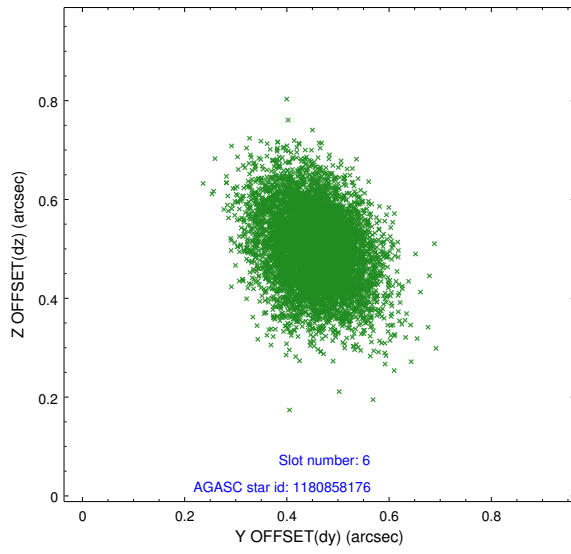
2.4.2 Slot 4



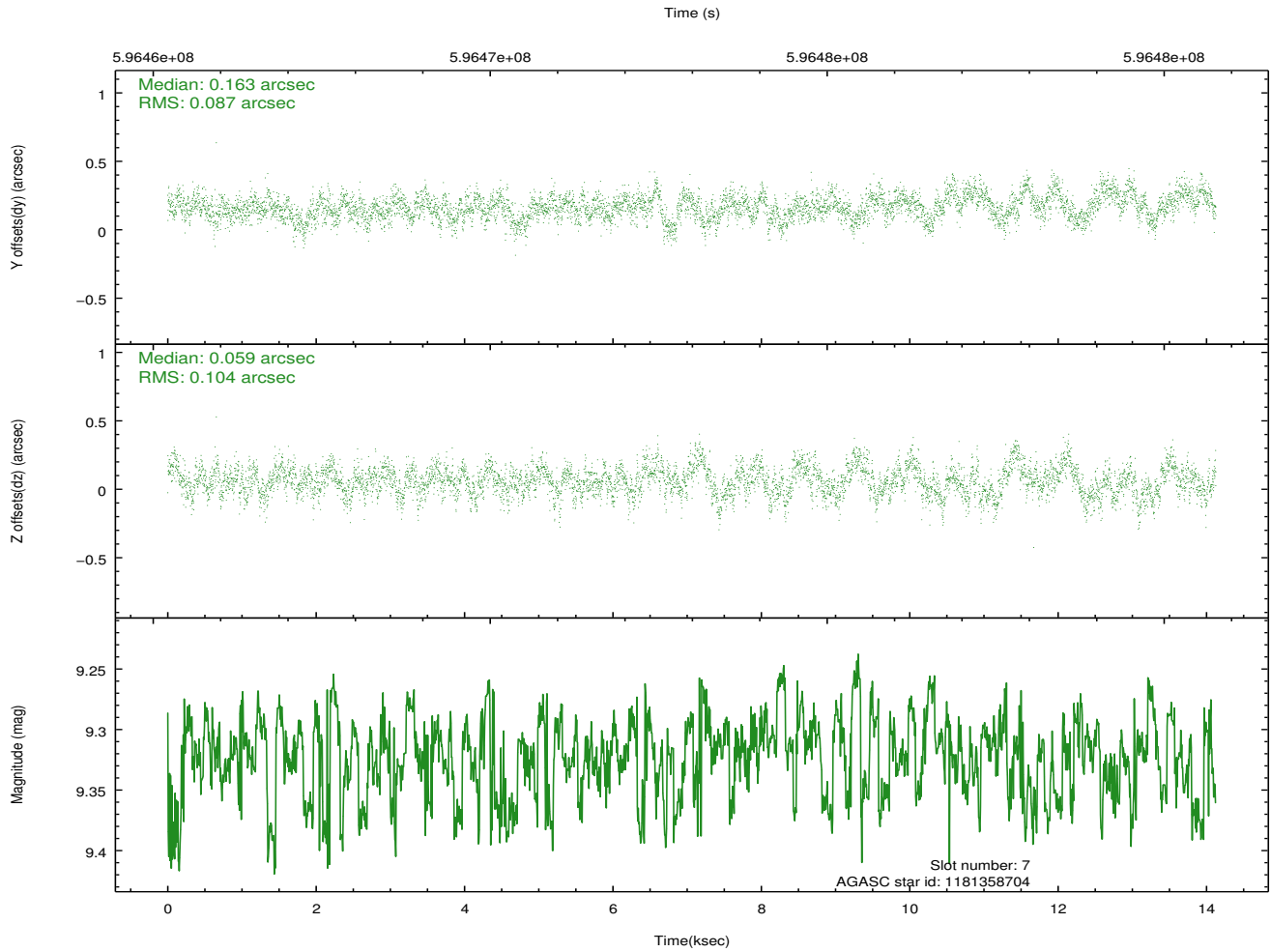
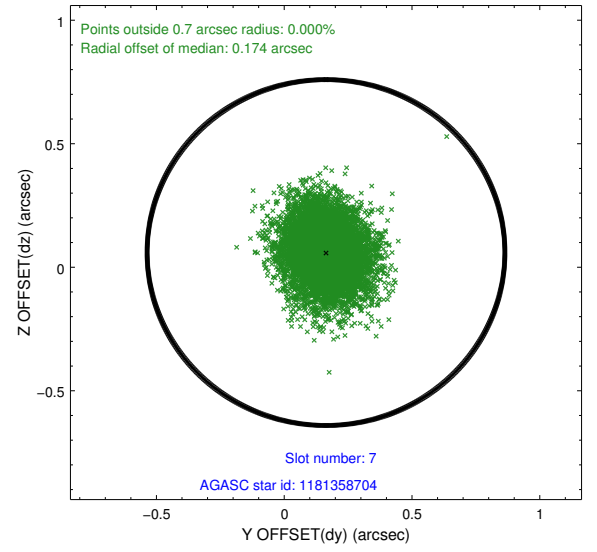
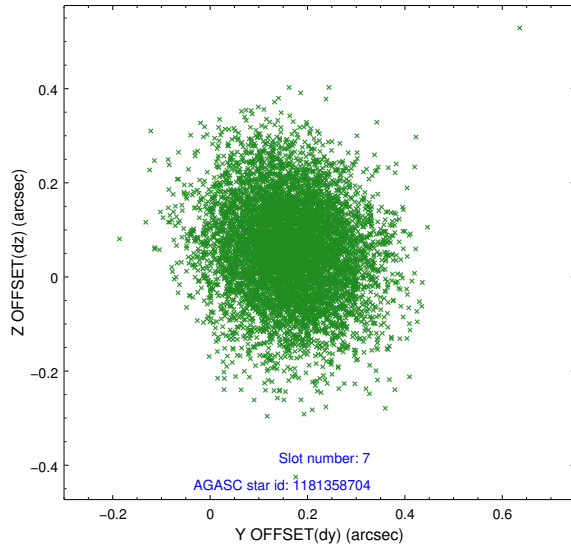
2.4.3 Slot 5



2.4.4 Slot 6

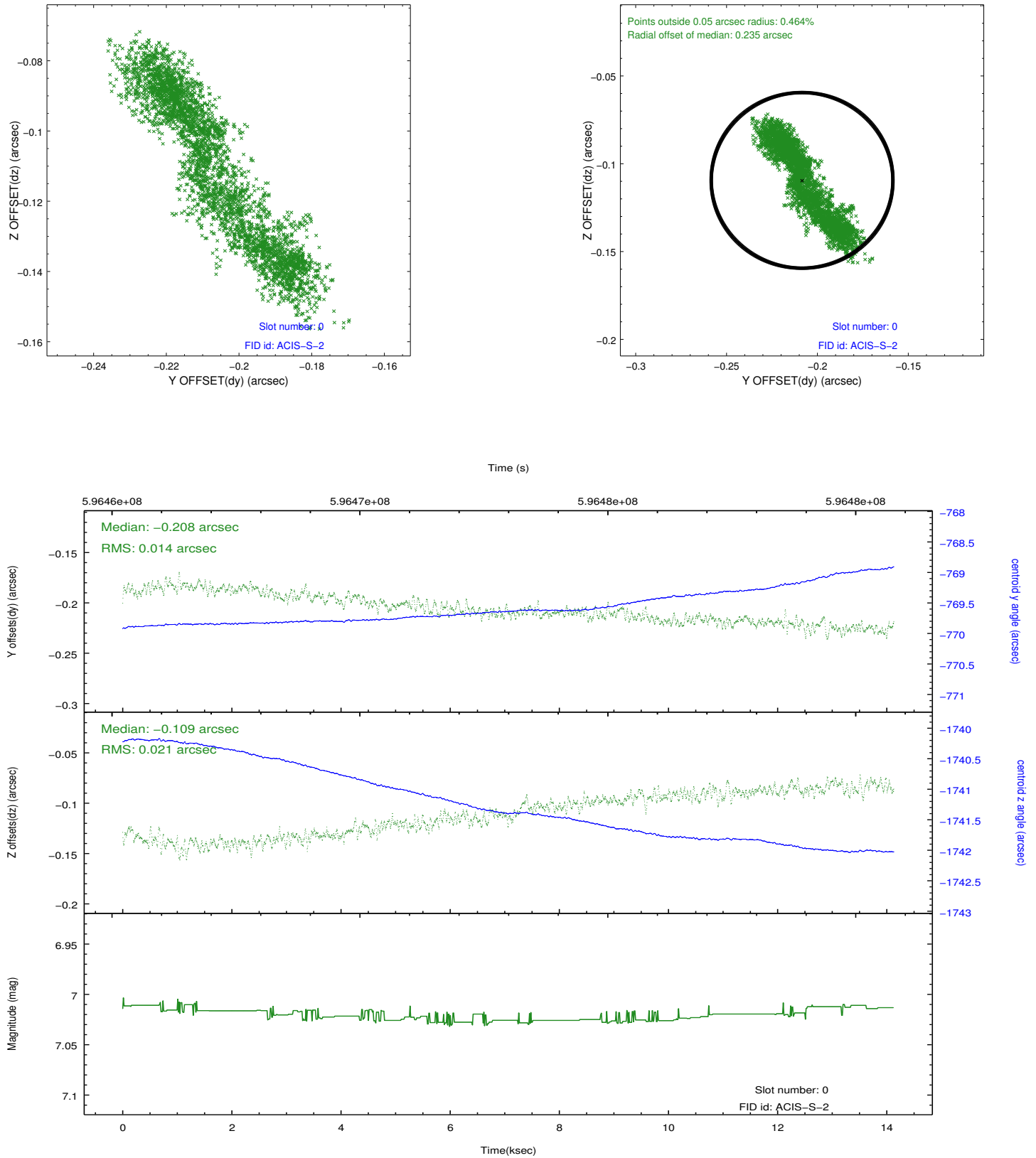


2.4.5 Slot 7

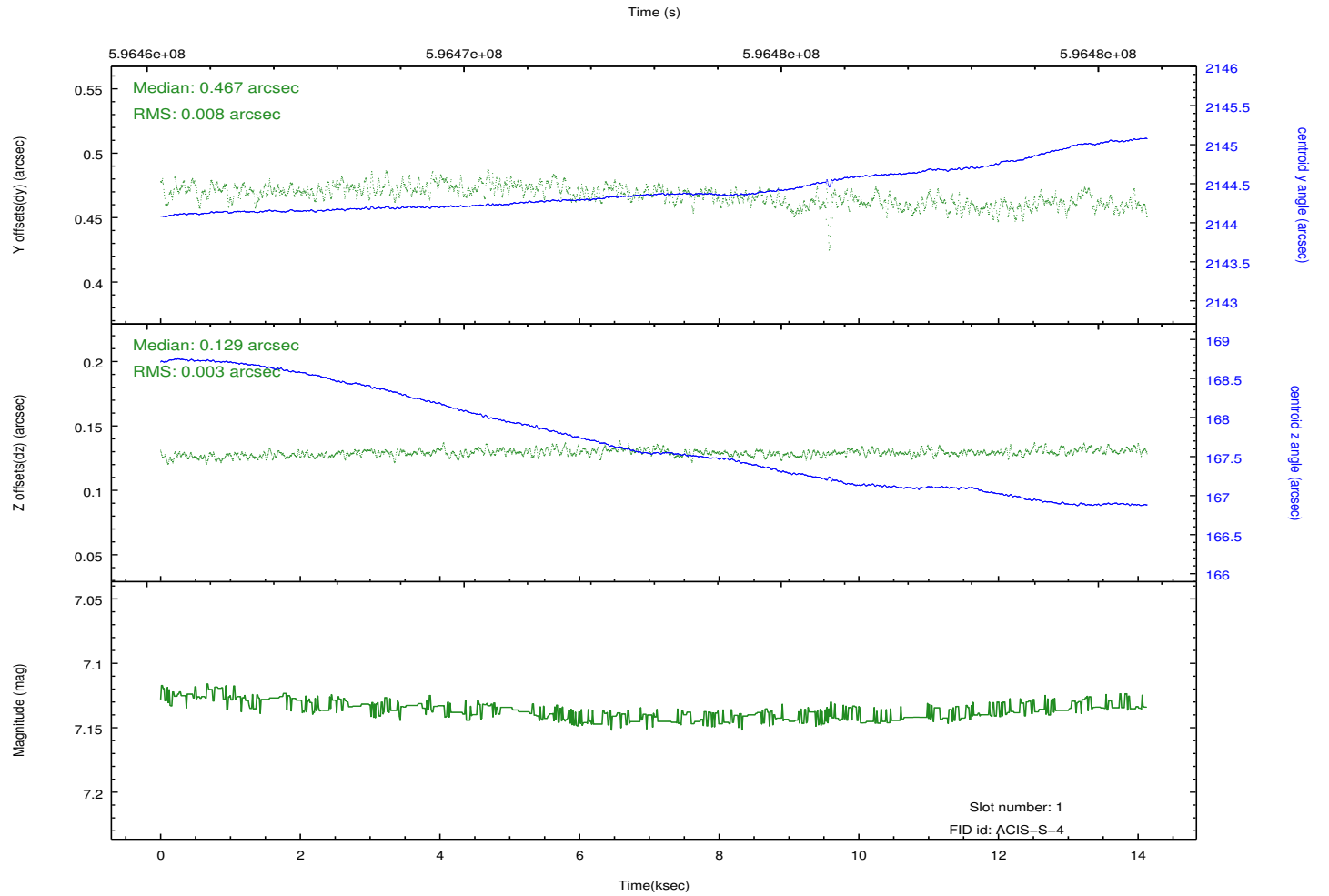
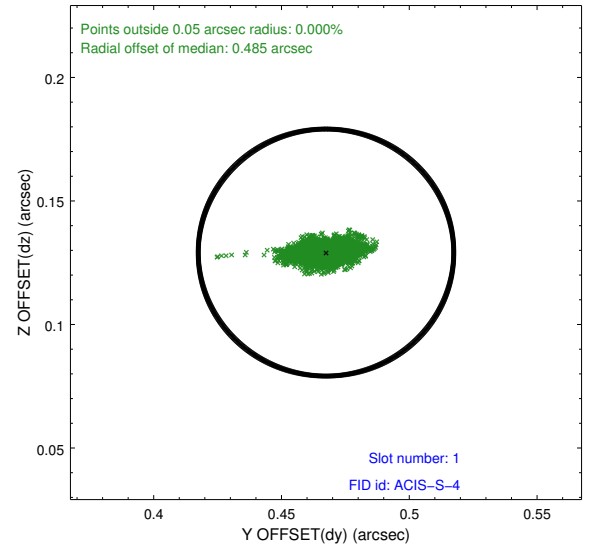
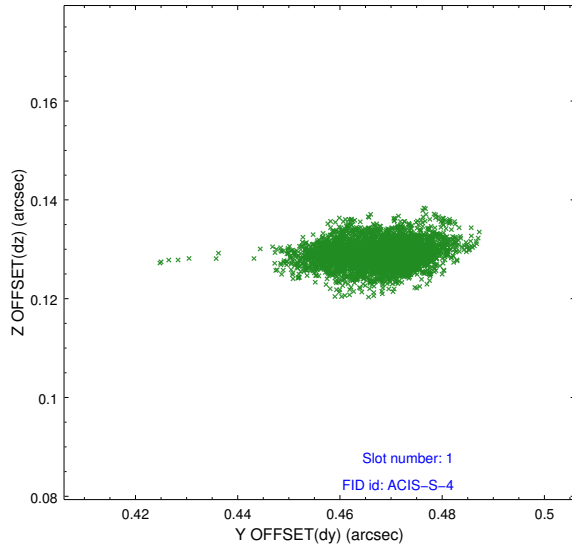


2.5 FID Slots

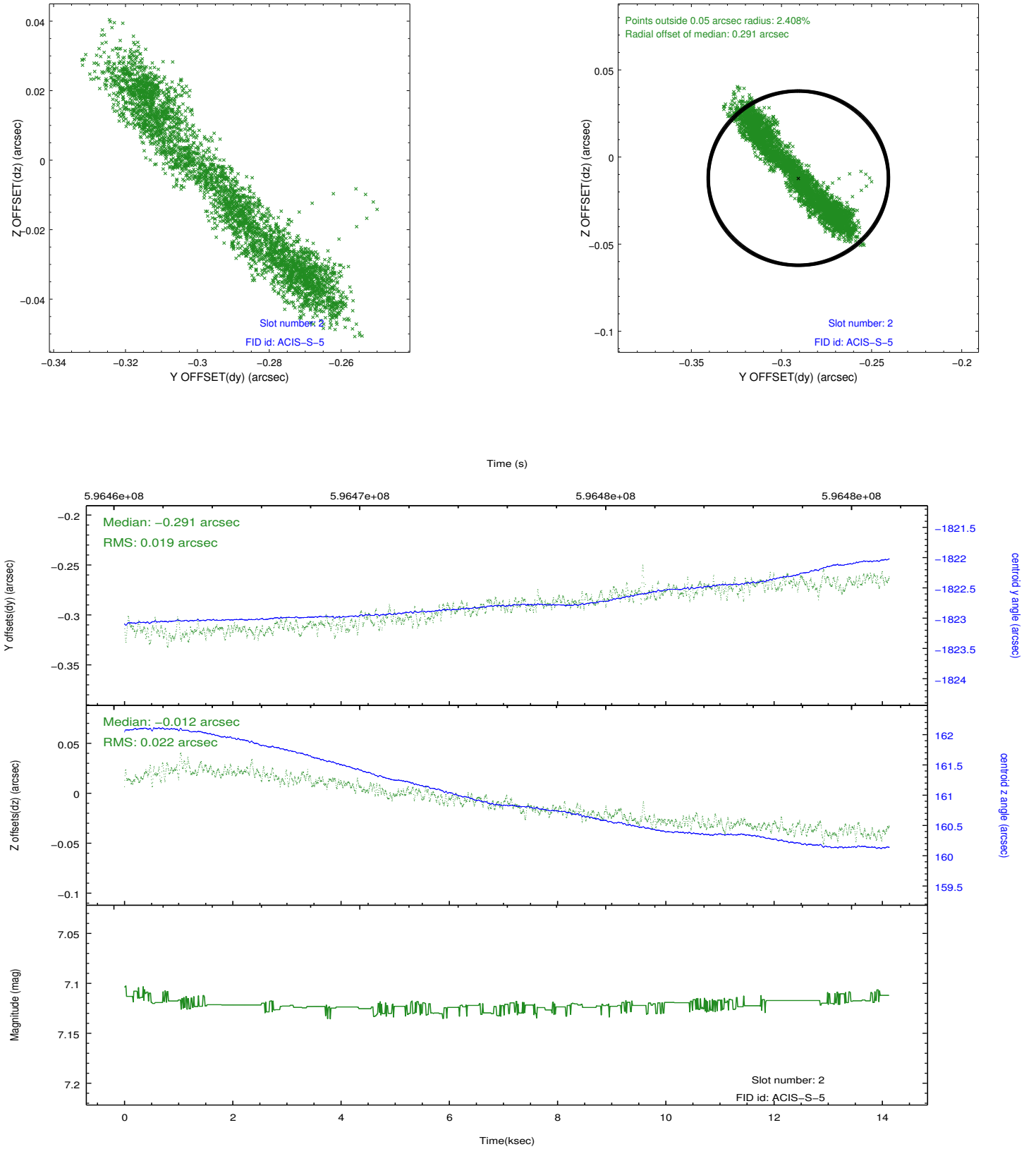
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Glenn Allen
V&V Date (YYYY-MM-DD)	2016.12.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.089214094877

A.2 Comments

Since some of the nodes of some of biases had systematic offsets of 2 adu or more, the bias data were adjusted to compensate for the node-dependent anomalous offsets. The adjustments were up to 3 adu (i.e. ~ 10 eV) for this observation. The event data were reprocessed using the new biases. A visual inspection of the source events suggests that the pulse heights are more accurate now.