

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21489 - L2 Version 1
Chandra X-Ray Center

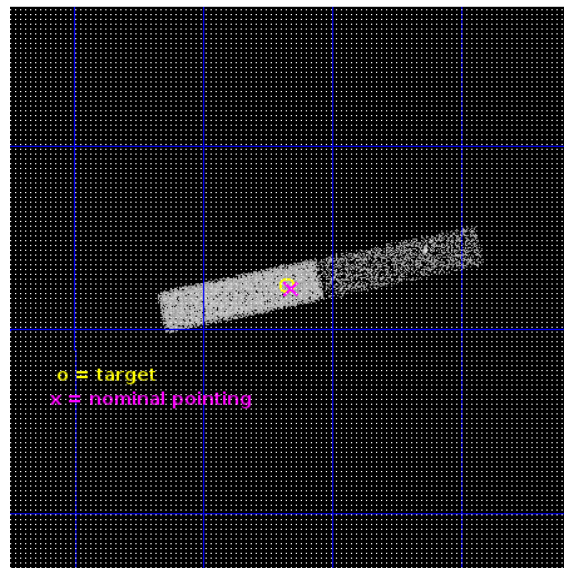
L2 Processing Date : May 29 2019

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1 Front

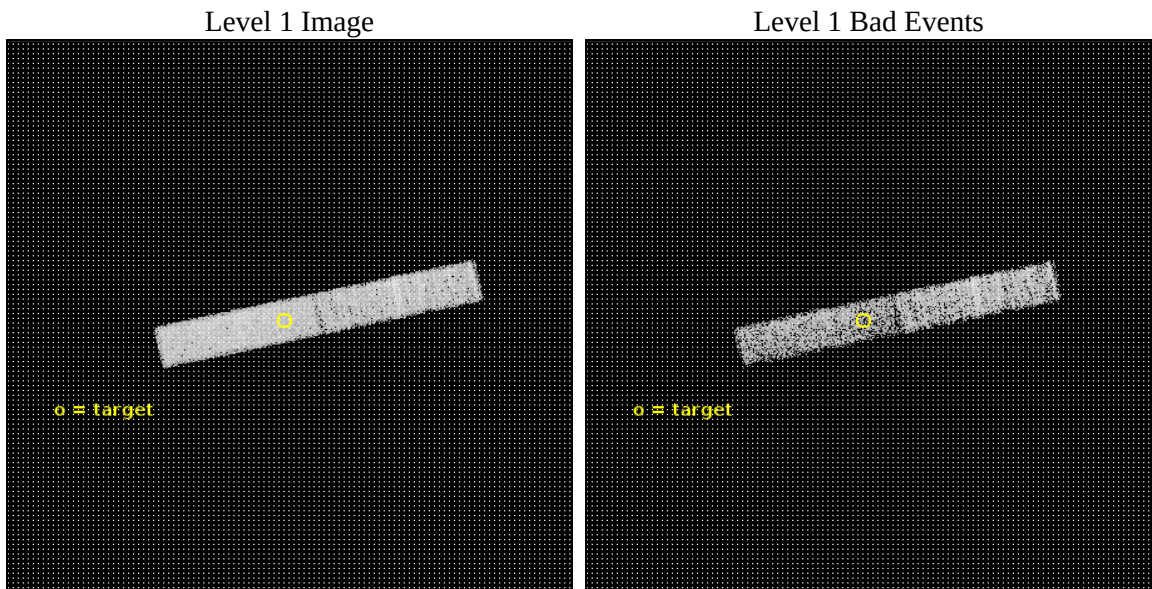
seq_num	703782	Sequence number
obs_id	21489	Observation id
title	Synchrotron emission in low-redshift quasars	Proposal title
observer	Mark Birkinshaw	Principal investigator
object	MRC0338-259	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	55.16875	Observer's specified target RA [deg]
dec_targ	-25.793194	Observer's specified target Dec [deg]
ra_nom	55.164720922087	Nominal RA [deg]
dec_nom	-25.796533467332	Nominal Dec [deg]
roll_nom	167.57167746372	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10344.599725842	Sum of GTIs [s]
livetime	9893.4580392525	Livetime [s]
ontime6	10343.632053733	Sum of GTIs [s]
ontime7	10344.599725842	Sum of GTIs [s]
l2events	14646	Number of level 2 events



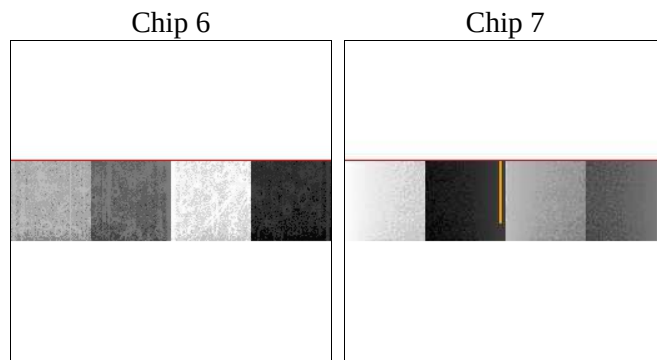
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10240.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	10344.599725842	Sum of GTIs [s]
caldsver	4.8.3	 	ontime6	10343.632053733	Sum of GTIs [s]
date	2019-05-29T12:10:50	Date and time of file creation	ontime7	10344.599725842	Sum of GTIs [s]
revision	1	Processing version of data	l1events	49019	Number of level 1 events

2.1.4 Events

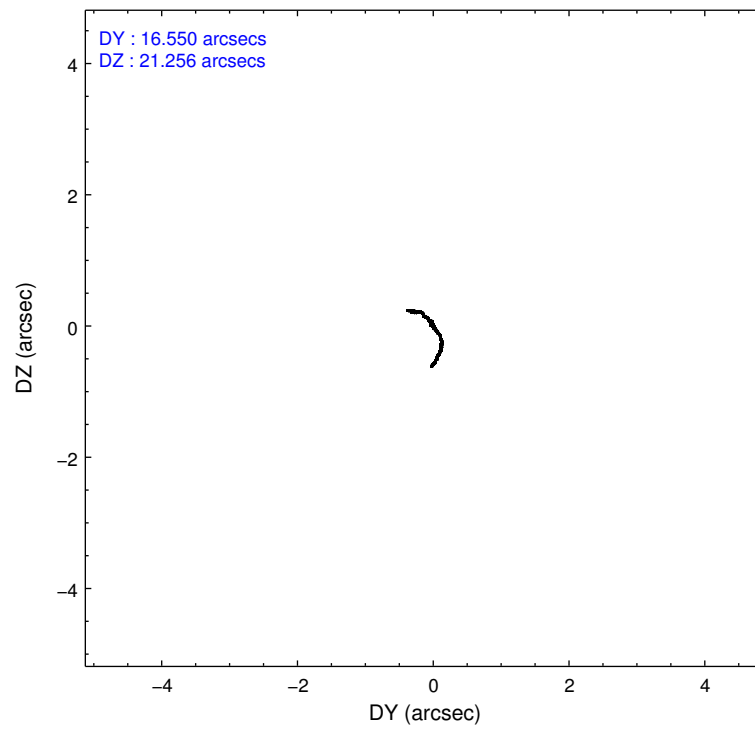
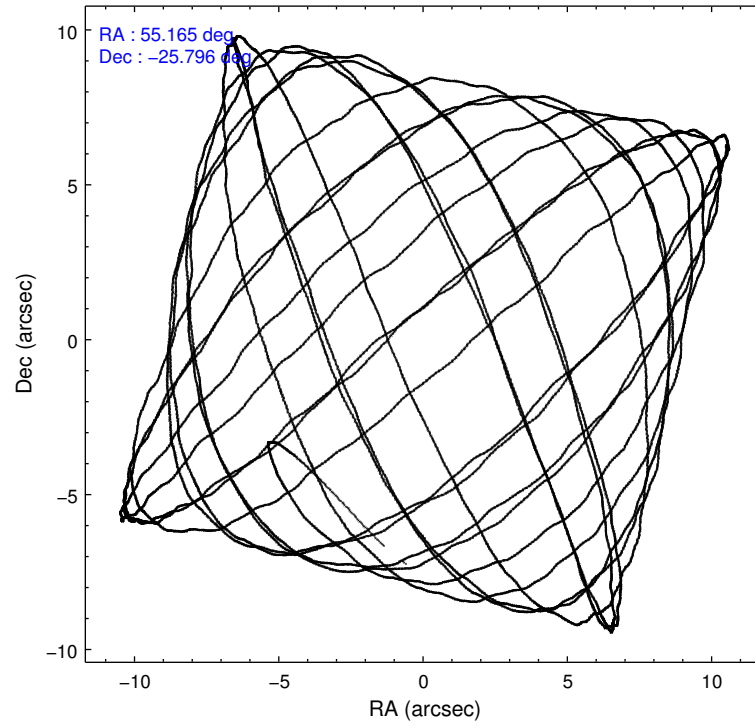
	ccd 6	ccd 7
level 1 events	22979	26040
rejected events	20115	13339
rejected %	87%	51%

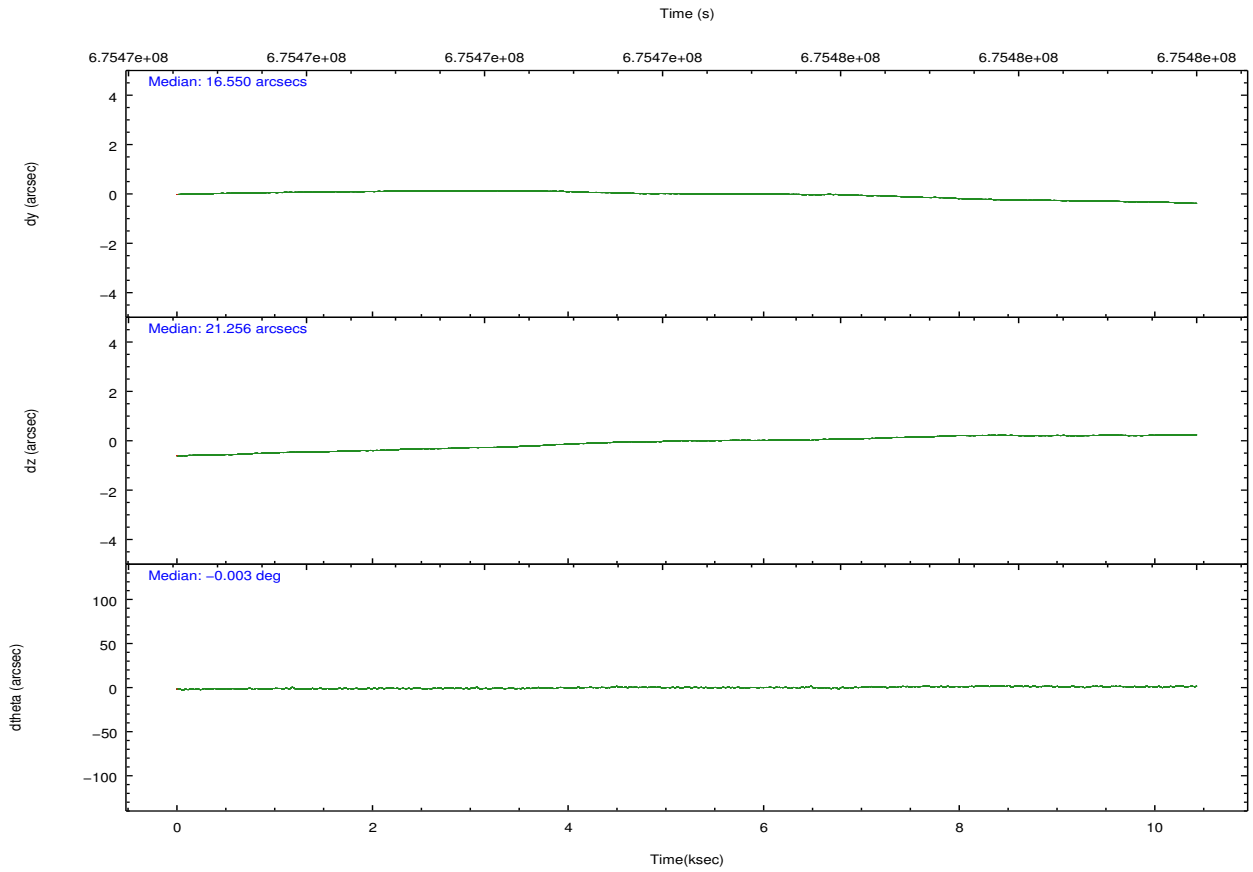
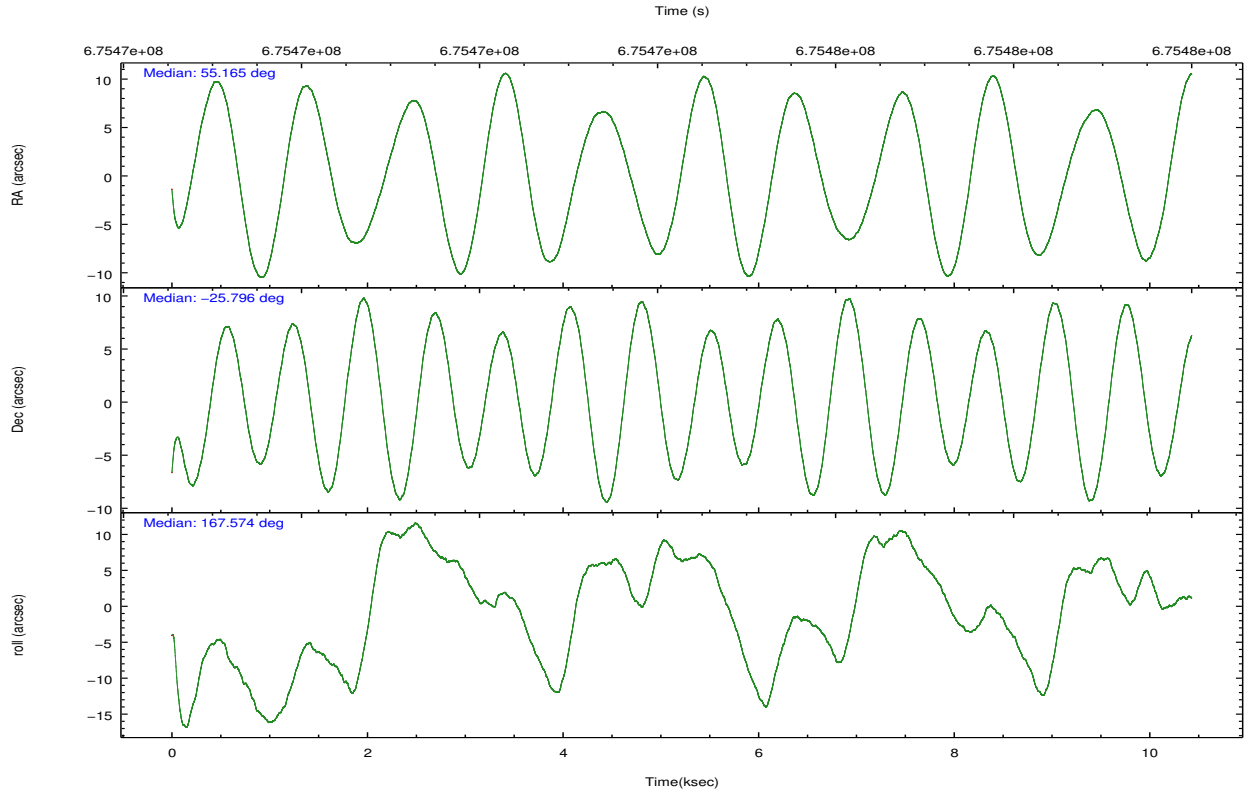
	ccd 6	ccd 7
grade 0 events	913	1297
	3%	4%
grade 1 events	9	58
	0%	0%
grade 2 events	574	2763
	2%	10%
grade 3 events	423	1339
	1%	5%
grade 4 events	399	1281
	1%	4%
grade 5 events	1008	2654
	4%	10%
grade 6 events	556	6022
	2%	23%
grade 7 events	19097	10626
	83%	40%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-67	ACIS-67	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	55.193637	55.16472092208702	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-25.787860	-25.79653346733181	Subarray start row	385	385
[deg] Pointing Roll	167.427614	167.5716774637184	Subarray row count	256	256
[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	0.9
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	675469228.184000	675468035.9015501			
Observation start date	2019-05-28T22:19:19	2019-05-28T22:00:35			
[s] Observation end time (MET)	675479468.184000	675480535.2647901			
Observation end date	2019-05-29T01:09:59	2019-05-29T01:28:55			
Read mode	TIMED	TIMED			

2.3 Aspect



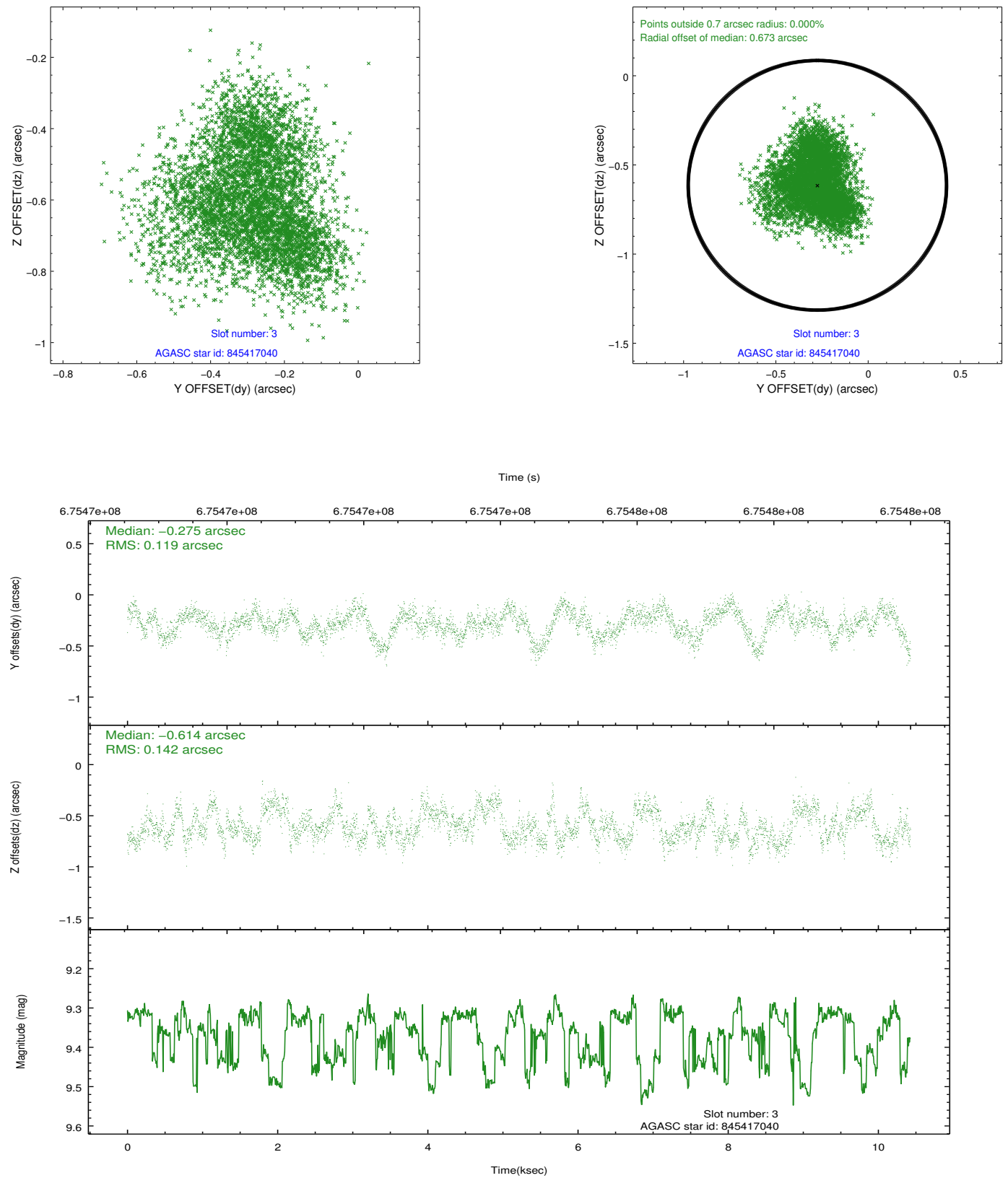


Slot Statistics

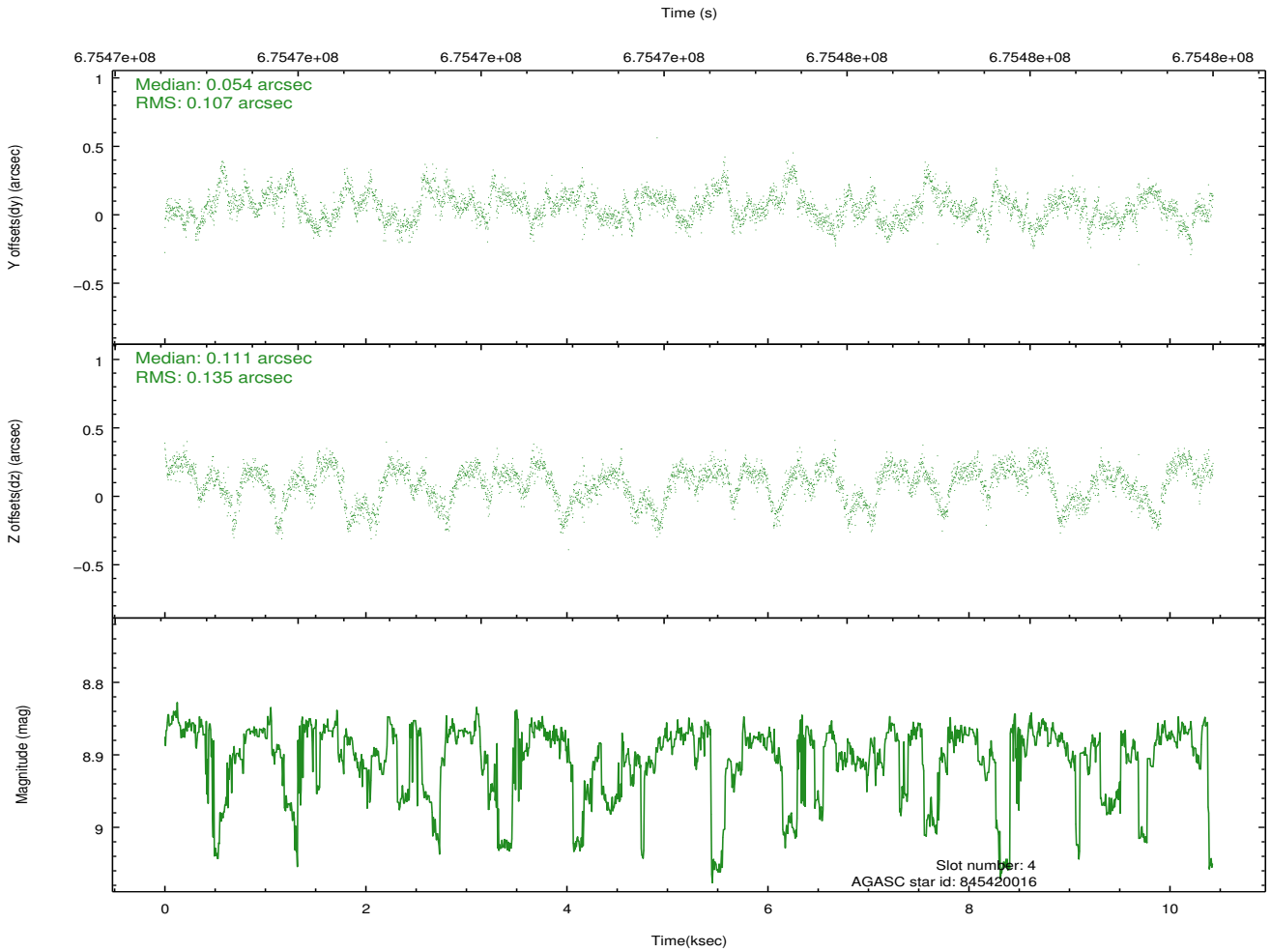
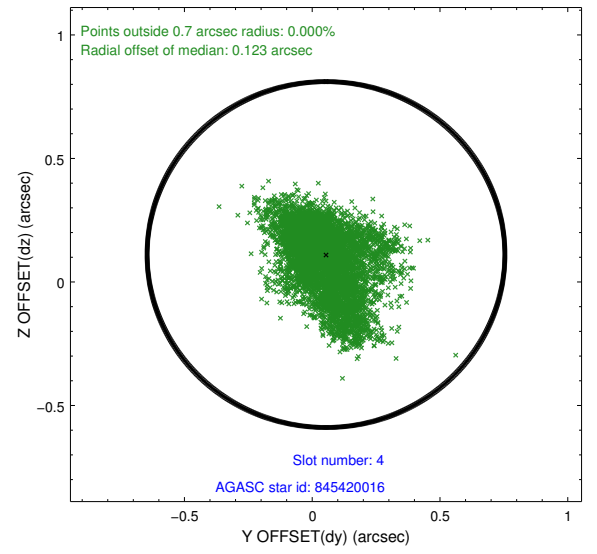
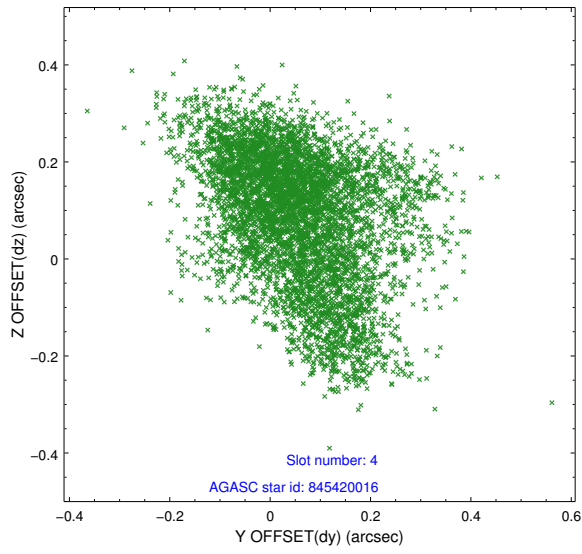
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.97	2544	1.000	-0.465	-0.330	0.007	0.012	0.000000	0.000000	-770.02	-1743
1	FID		ACIS-S-4	7.10	2544	1.000	0.491	0.267	0.007	0.011	0.000000	0.000000	2144.02	165
2	FID		ACIS-S-6	7.24	2544	1.000	-0.054	0.071	0.008	0.013	0.000000	0.000000	393.07	803
3	GUIDE	used	845417040	9.36	5081	1.000	-0.275	-0.614	0.201	0.309	54.985949	-26.222354	314.35	1672
4	GUIDE	used	845420016	8.89	5086	1.000	0.054	0.111	0.180	0.309	54.916639	-25.360598	1214.51	-1303
5	GUIDE	used	845420136	8.90	5079	1.000	0.221	0.449	0.168	0.252	55.349748	-25.345189	-149.13	-1665
6	GUIDE	used	845421056	7.80	5084	1.000	-0.201	-0.132	0.115	0.201	54.698247	-25.608490	1709.54	-277
7	GUIDE	used	845421224	8.32	5086	1.000	0.224	0.200	0.095	0.160	55.779027	-25.975819	-1998.23	252

2.4 Star Slots

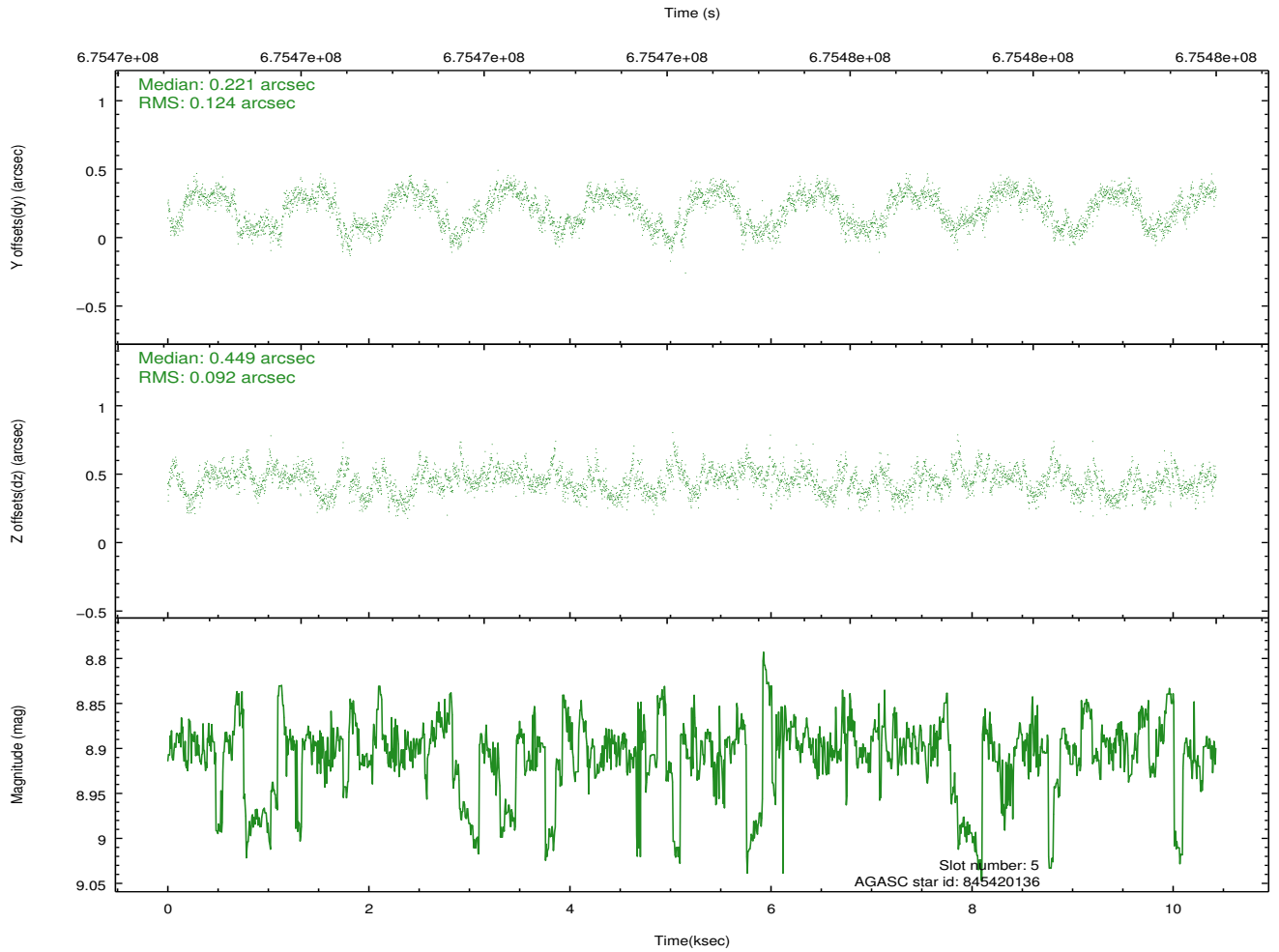
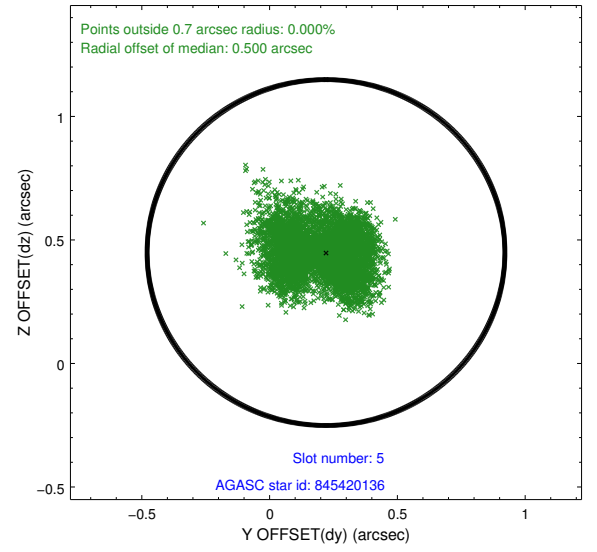
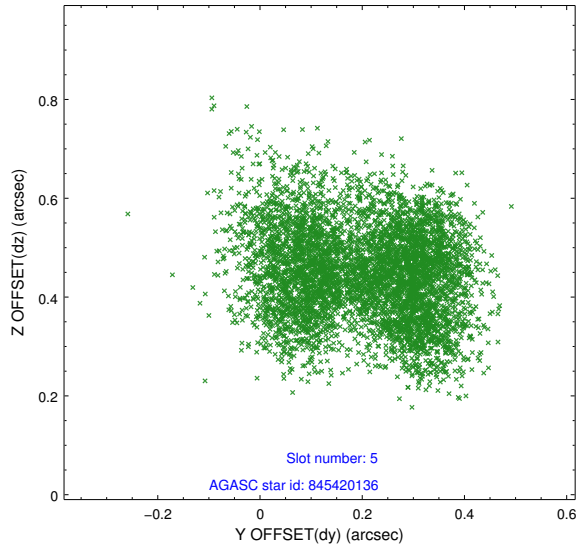
2.4.1 Slot 3



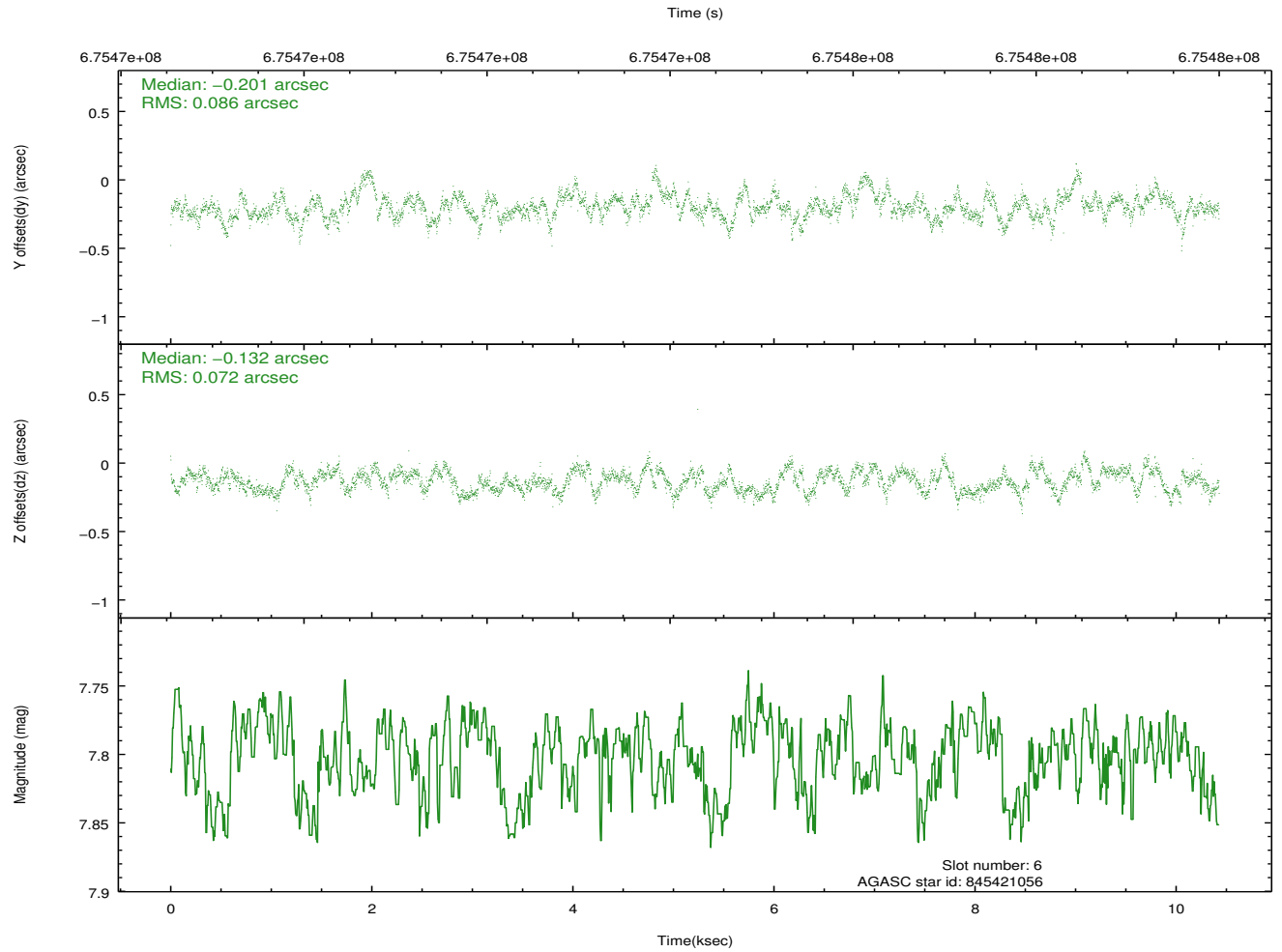
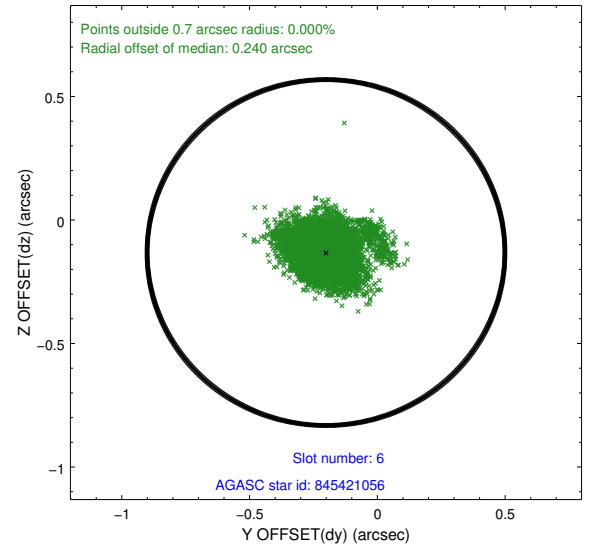
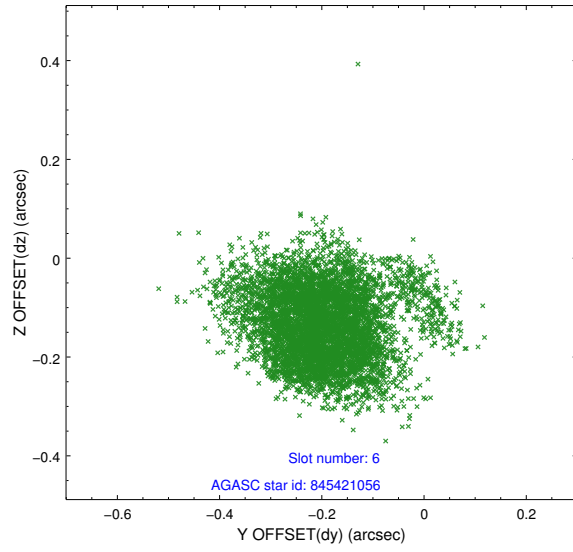
2.4.2 Slot 4



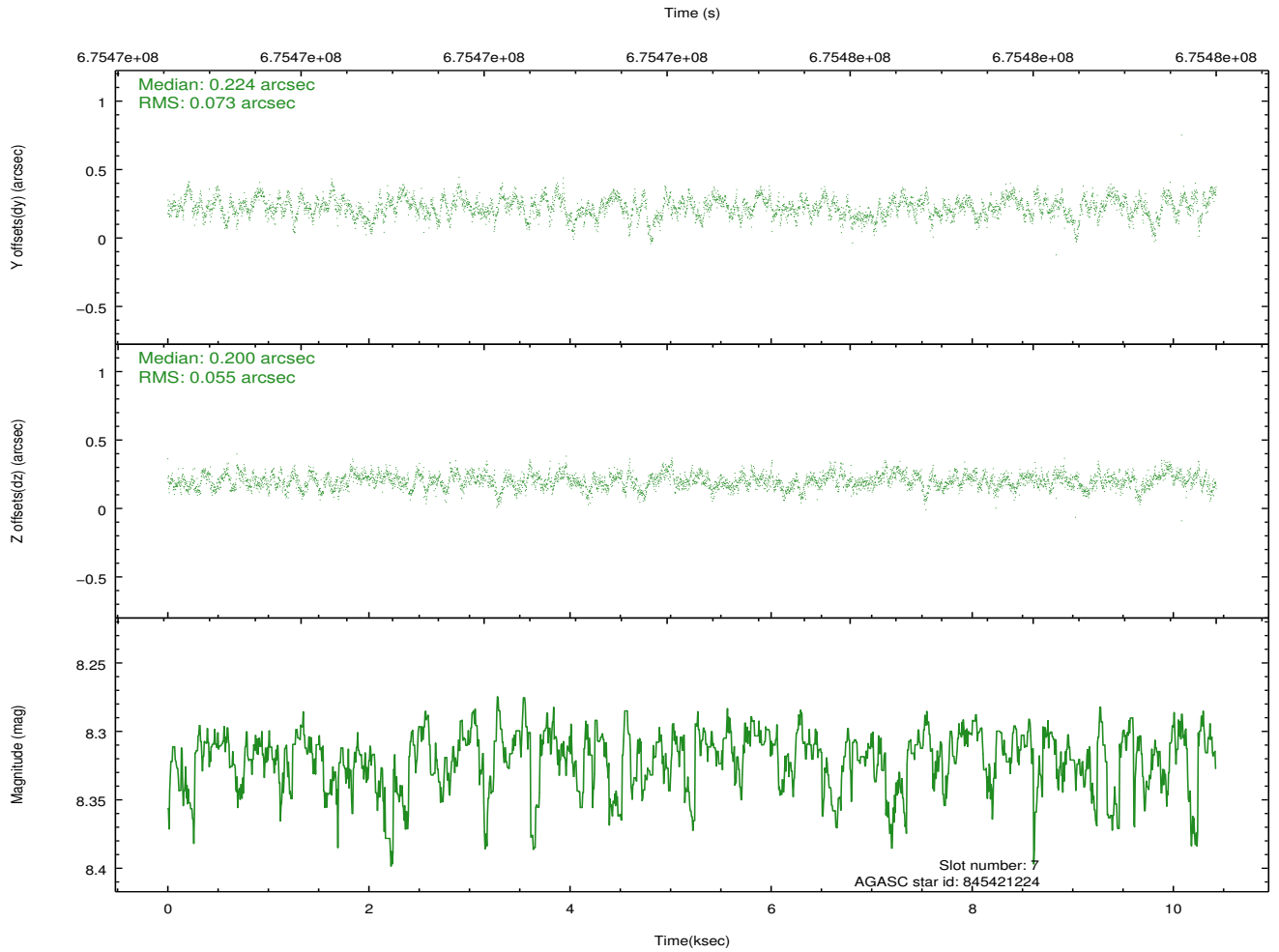
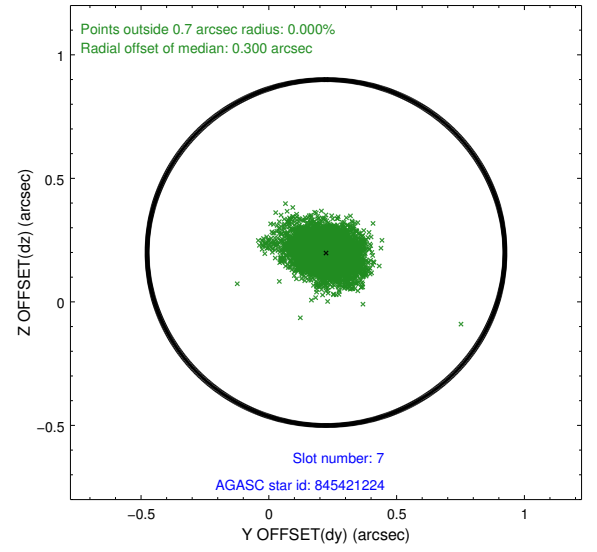
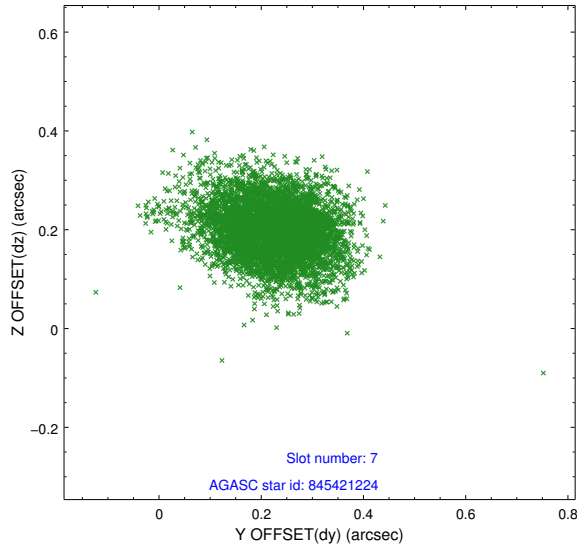
2.4.3 Slot 5



2.4.4 Slot 6

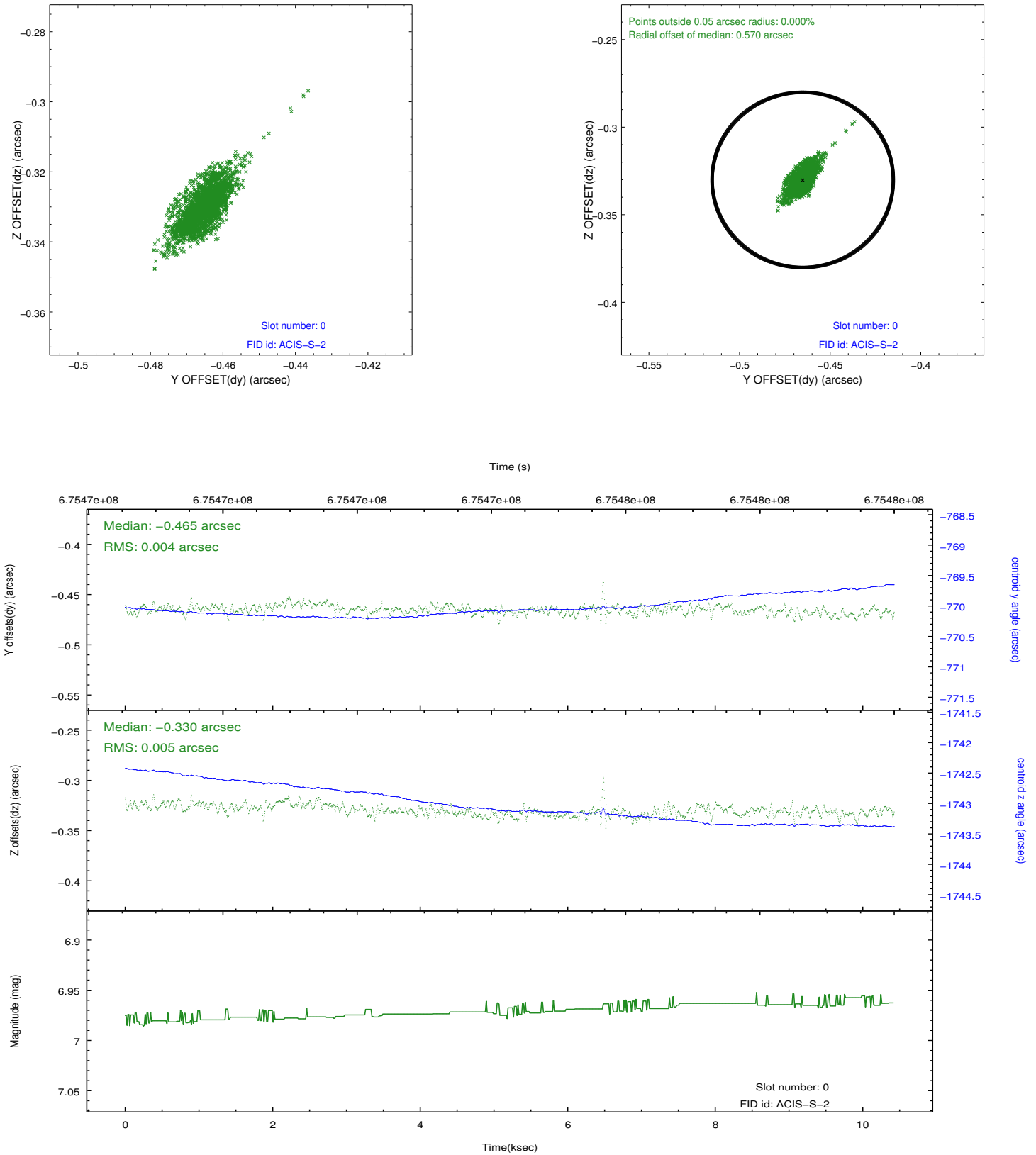


2.4.5 Slot 7

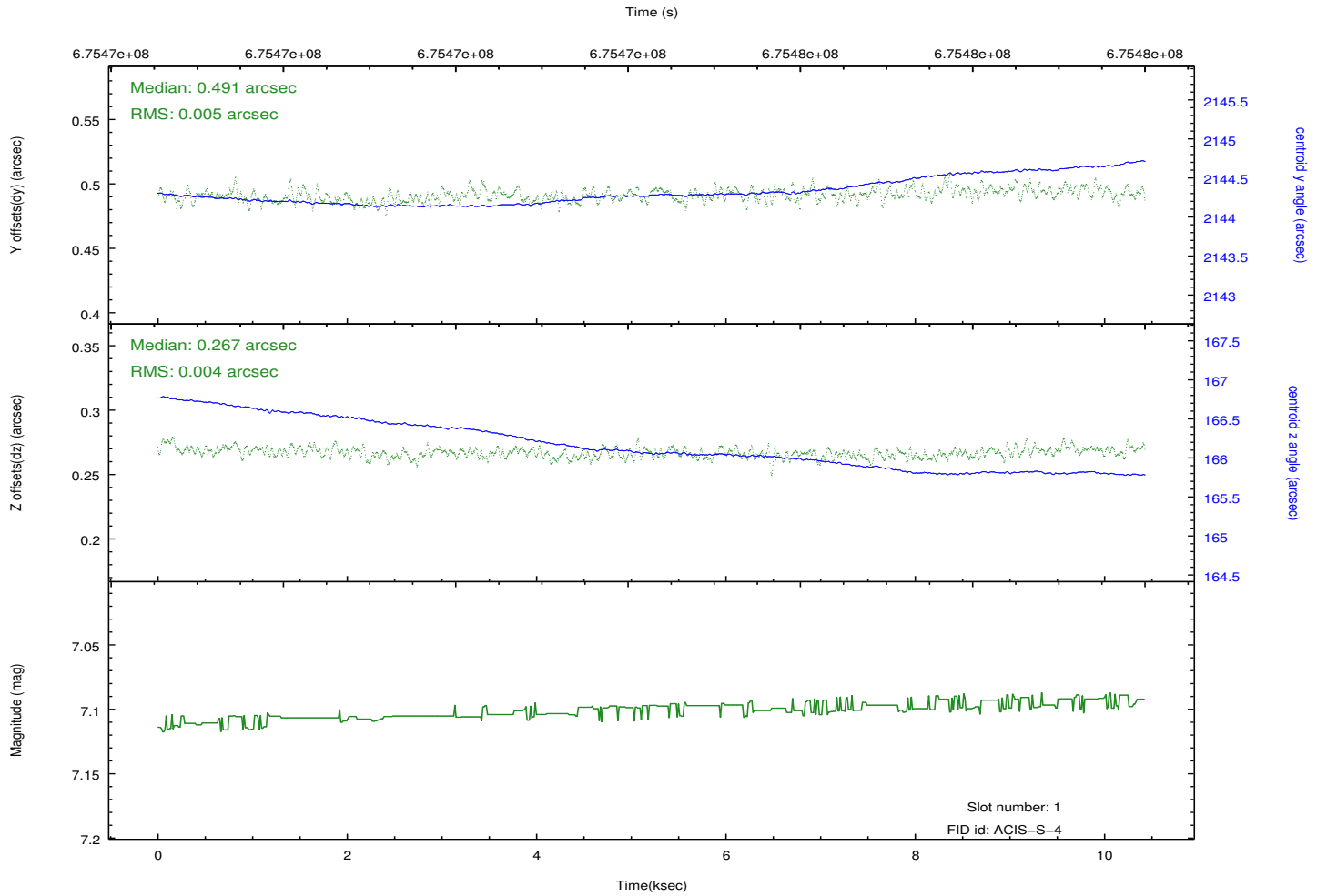
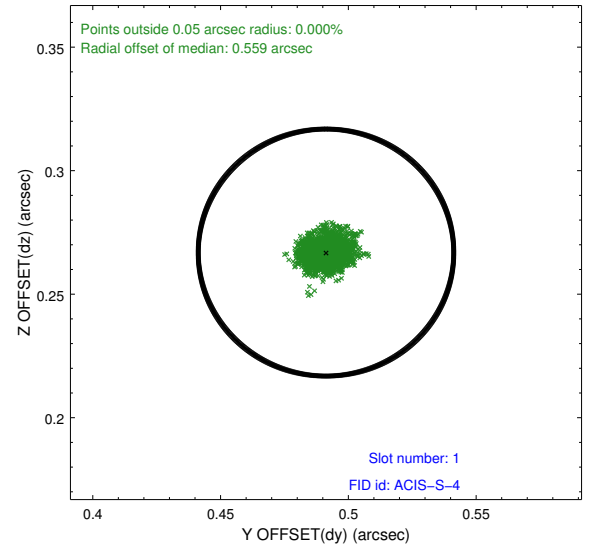
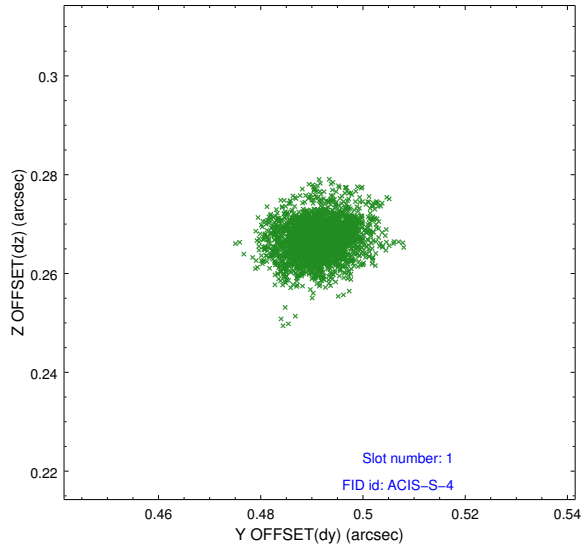


2.5 FID Slots

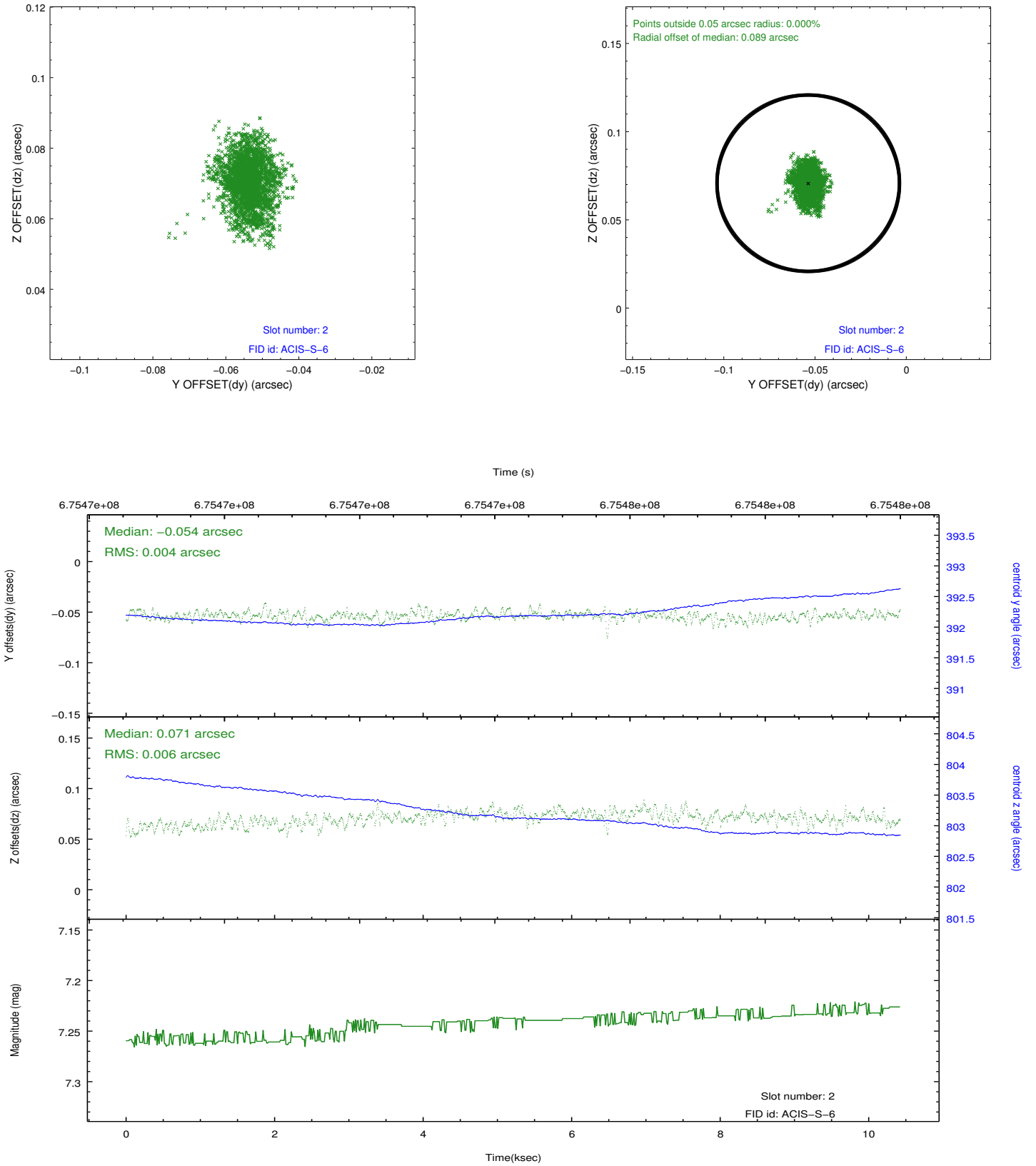
2.5.1 Slot 0



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)	2019.05.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.344599725842

A.2 Comments

Roll preference met.