

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 18681 - L2 Version 1
Chandra X-Ray Center

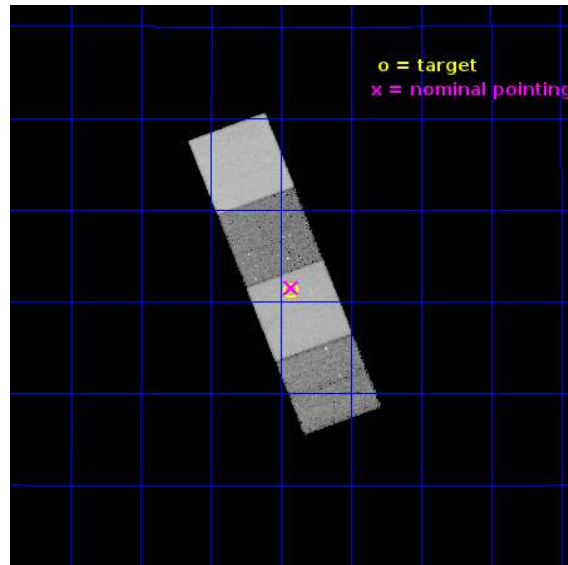
L2 Processing Date : Oct 15 2015

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

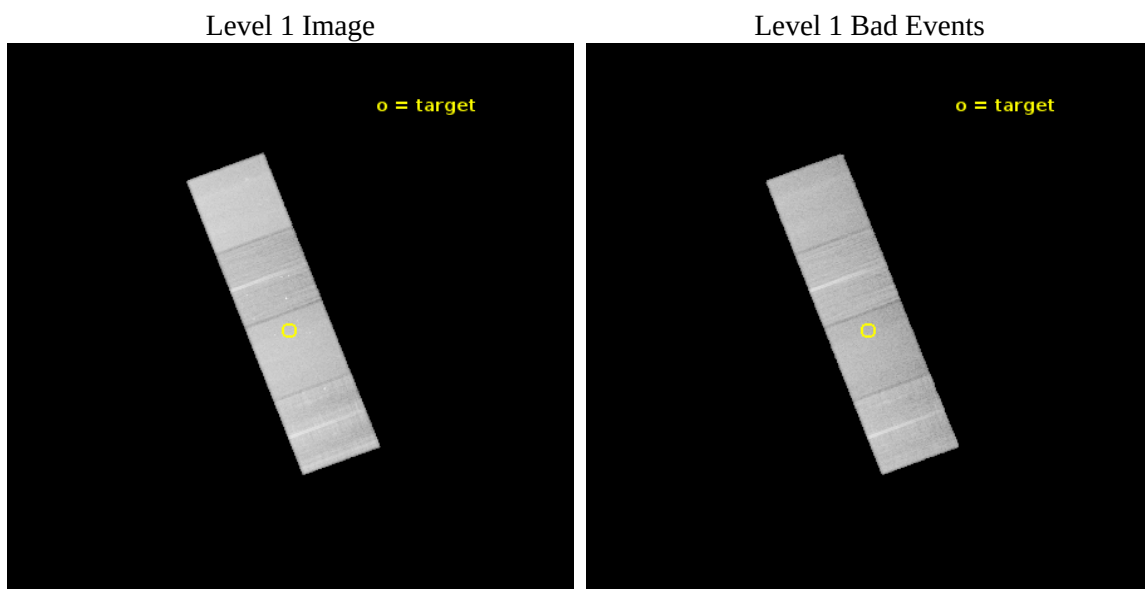
seq_num	901140	Sequence number
obs_id	18681	Observation id
title	The Local Leo Cold Cloud: Separating Solar Wind Charge Exchange from Local Bubble X-ray Emission	Proposal title
observer	Dr. Jonathan Slavin	Principal investigator
object	Local Leo Cold Cloud	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	145.6083	Observer's specified target RA [deg]
dec_targ	12.3538	Observer's specified target Dec [deg]
ra_nom	145.60656473913	Nominal RA [deg]
dec_nom	12.358960644171	Nominal Dec [deg]
roll_nom	69.15699415006	Nominal Roll [deg]
revision	1	Processing version of data
ontime	46056.700354338	Sum of GTIs [s]
livetime	45454.935657759	Livetime [s]
ontime5	46056.700354338	Sum of GTIs [s]
ontime6	46053.5593642	Sum of GTIs [s]
ontime7	46056.700354338	Sum of GTIs [s]
ontime8	46056.700354338	Sum of GTIs [s]
l2events	373017	Number of level 2 events



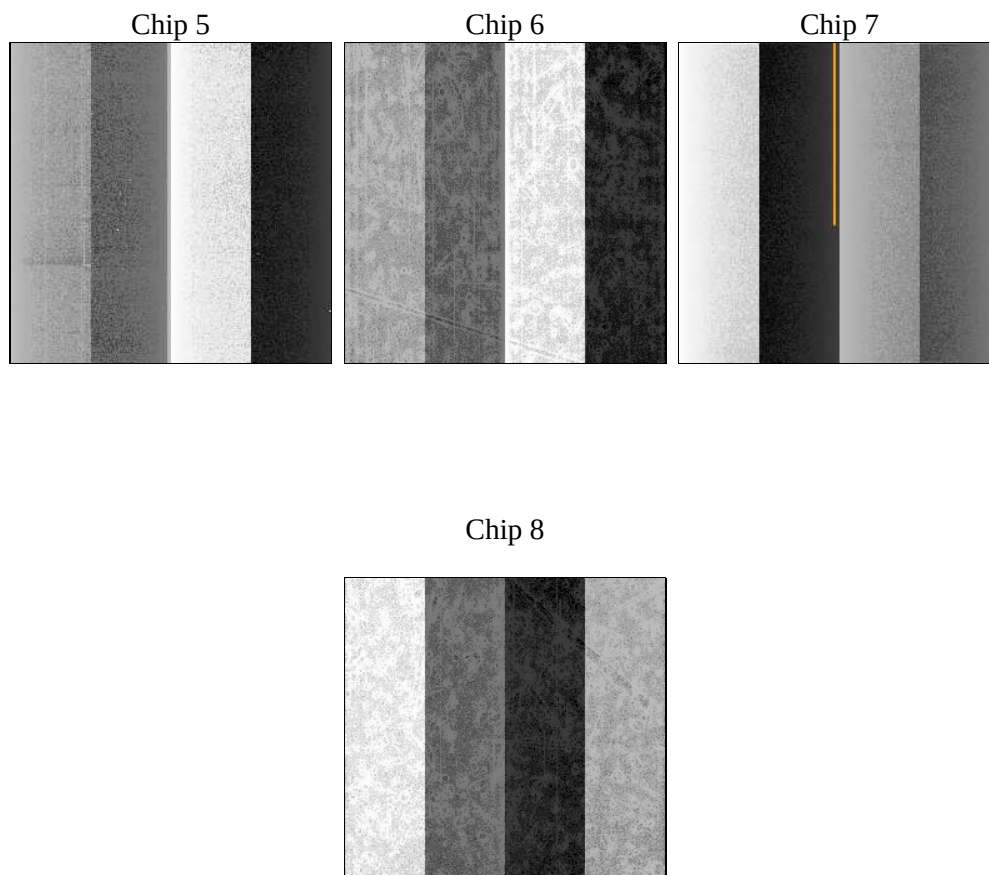
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	46000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	46056.700354338	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime5	46056.700354338	Sum of GTIs [s]
date	2015-10-15T22:15:03	Date and time of file creation	ontime6	46053.5593642	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	46056.700354338	Sum of GTIs [s]
			ontime8	46056.700354338	Sum of GTIs [s]
			l1events	1279903	Number of level 1 events

2.1.4 Events

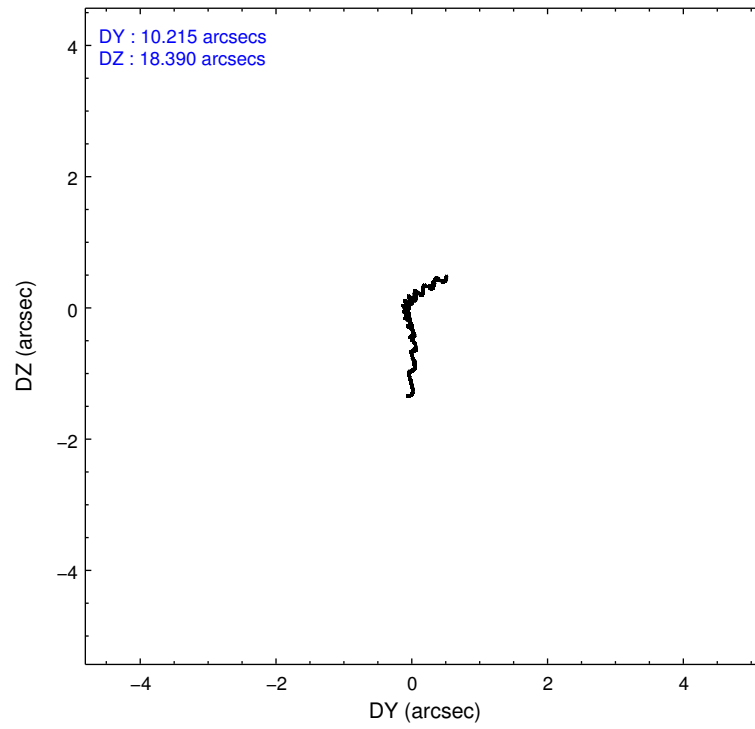
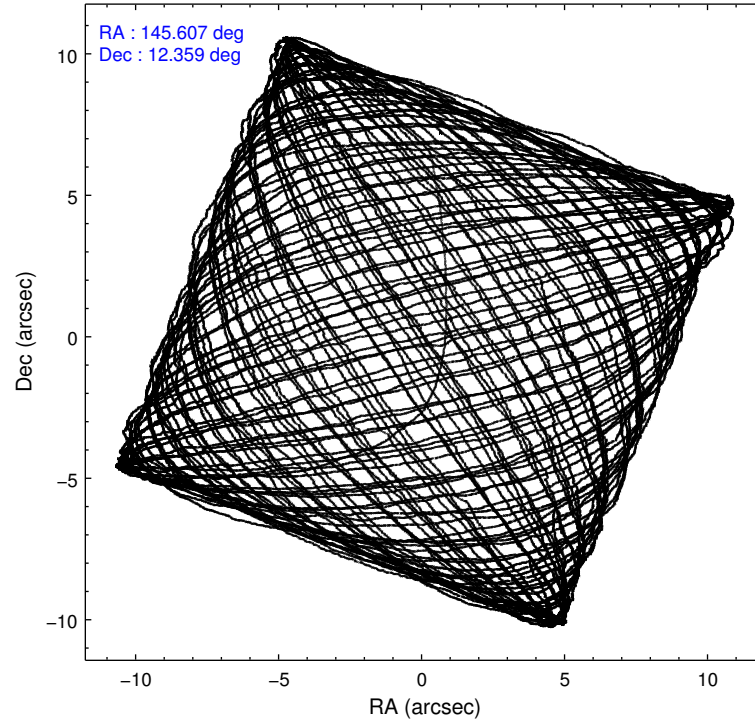
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	387501	246399	322668	323335
rejected events	203576	216176	182814	233710
rejected %	52%	87%	56%	72%

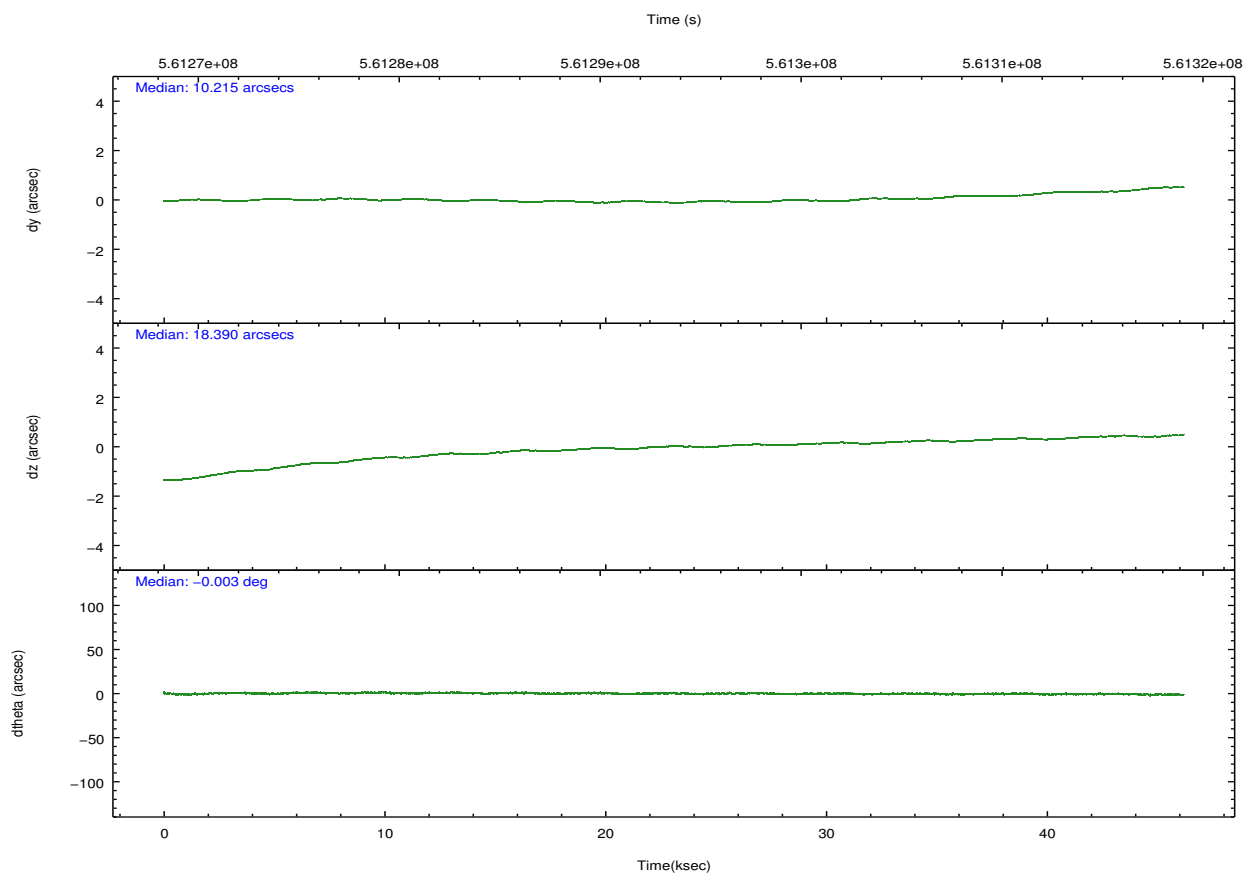
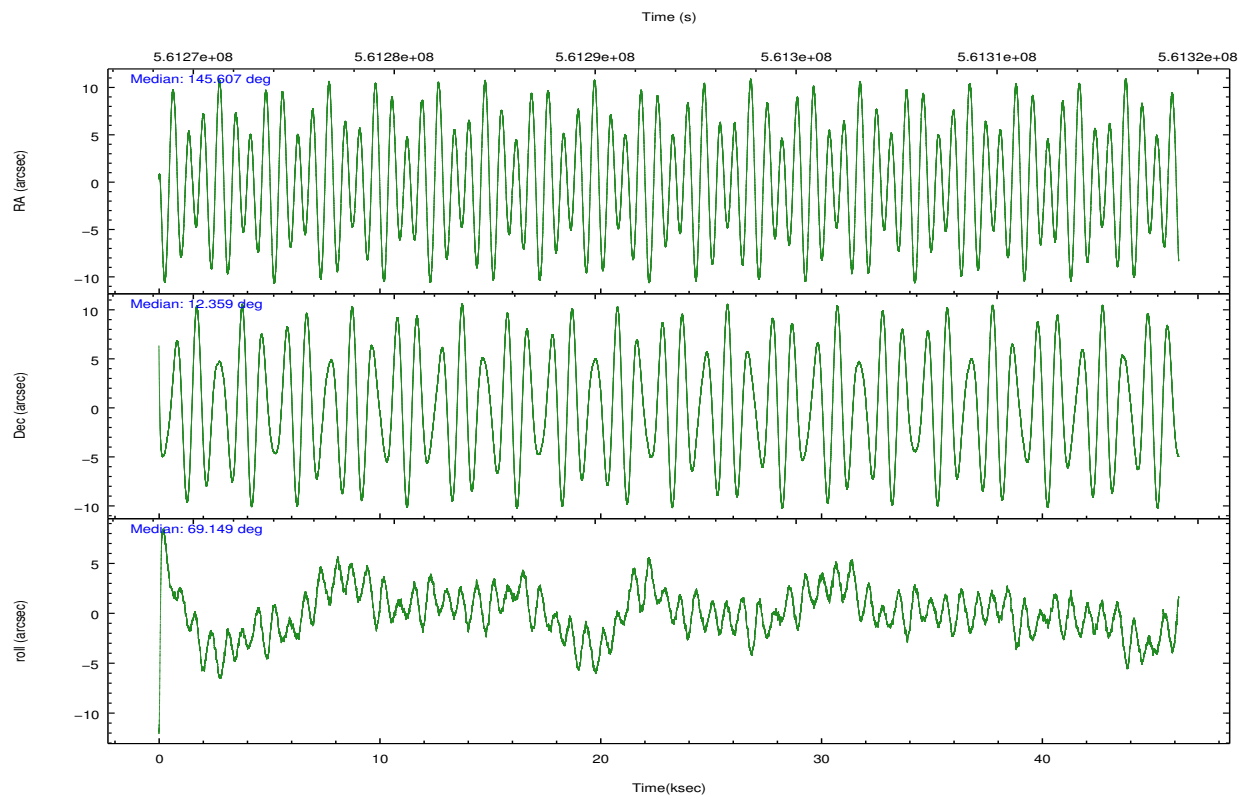
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	10705	10739	12141	26612
	2%	4%	3%	8%
grade 1 events	770	115	408	242
	0%	0%	0%	0%
grade 2 events	57450	6806	29177	21174
	14%	2%	9%	6%
grade 3 events	6273	3020	11483	9082
	1%	1%	3%	2%
grade 4 events	6159	2880	11363	8663
	1%	1%	3%	2%
grade 5 events	28787	12235	33212	18155
	7%	4%	10%	5%
grade 6 events	103361	6782	75706	24108
	26%	2%	23%	7%
grade 7 events	173996	203822	149178	215299
	44%	82%	46%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	145.611402	145.6065647391284	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.331936	12.35896064417082	Alternating exposures requested	N	N
[deg] Pointing Roll	68.999337	69.15699415005987	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	560390468.184000	560390468.184000			
[s] Window stop time (MET)	564364868.184000	564364868.184000			
[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)	561270764.184000	561269709.859			
Observation start date	2015-10-15T04:31:36	2015-10-15T04:15:09			
[s] Observation end time (MET)	561316764.184000	561317936.62422			
Observation end date	2015-10-15T17:18:16	2015-10-15T17:38:56			
Read mode	TIMED	TIMED			

2.3 Aspect



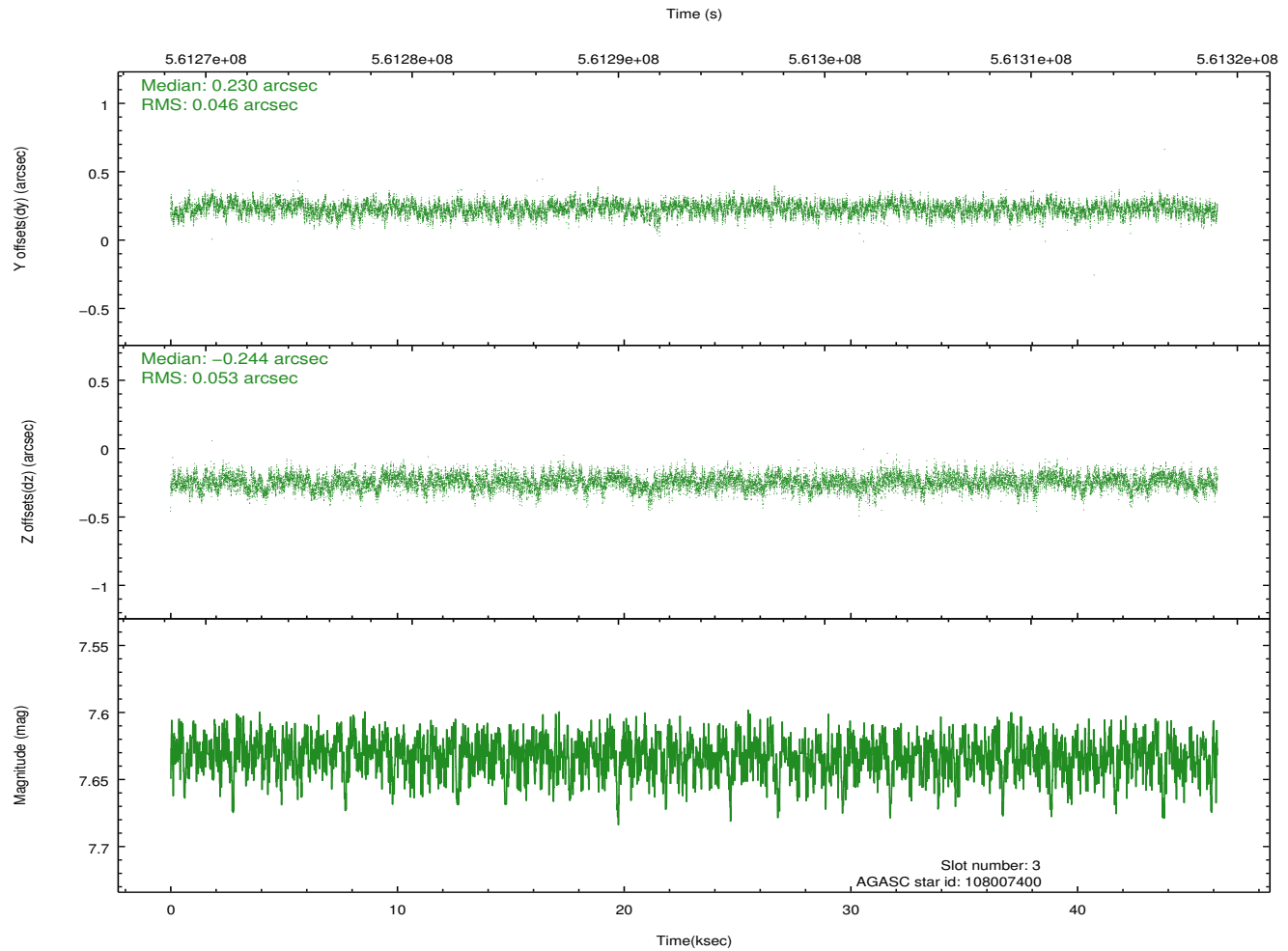
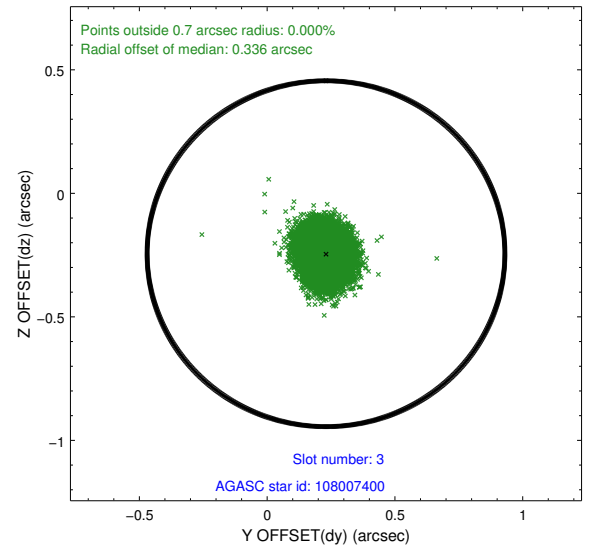
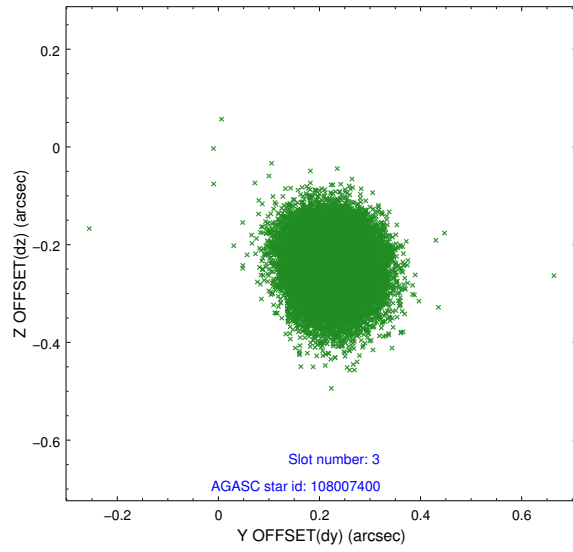


Slot Statistics

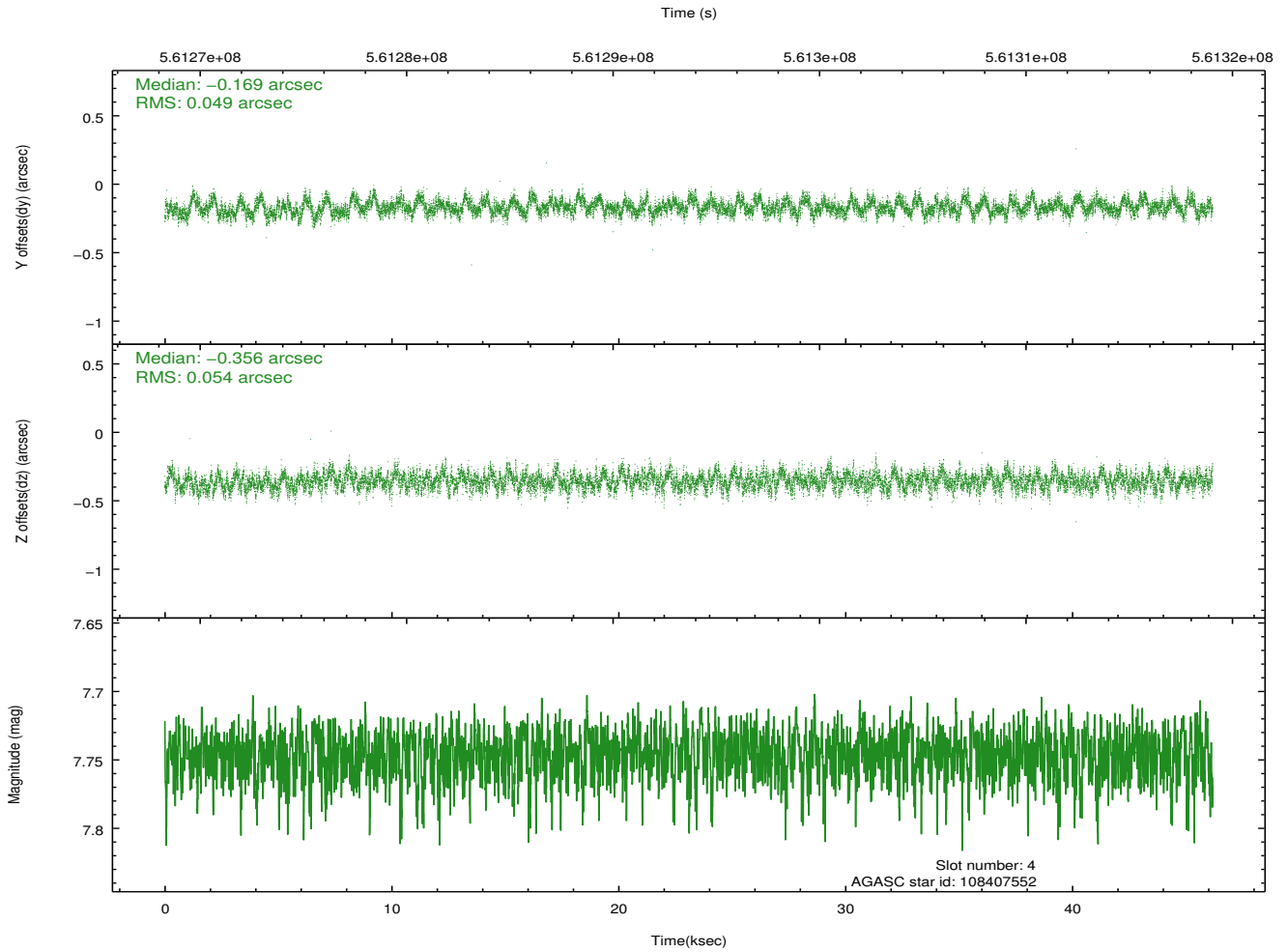
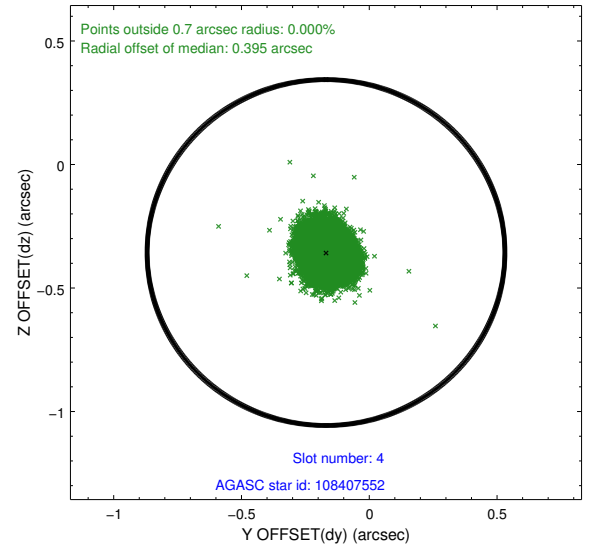
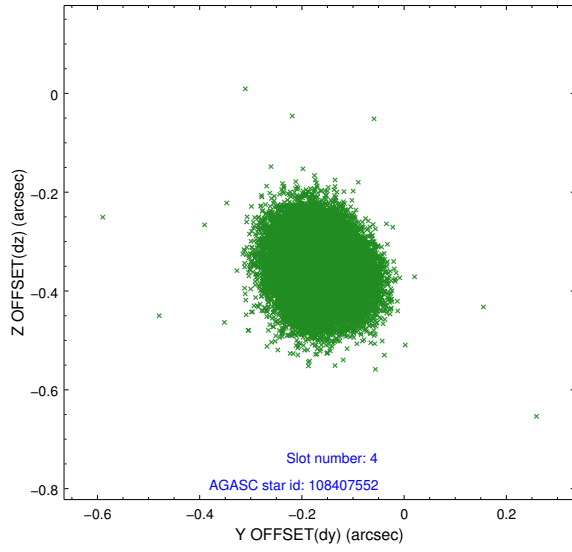
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	11265	-0.127	-0.109	0.009	0.018	0.000000	0.000000	-763.25	-1739.77
1	FID		ACIS-S-4	7.20	11265	0.362	0.090	0.006	0.012	0.000000	0.000000	2150.53	168.89
2	FID		ACIS-S-5	7.23	11265	-0.266	0.028	0.009	0.018	0.000000	0.000000	-1816.23	162.52
3	GUIDE	used	108007400	7.63	22528	0.230	-0.244	0.074	0.120	144.894890	12.166080	-1458.18	2140.90
4	GUIDE	used	108407552	7.75	22529	-0.169	-0.356	0.079	0.123	145.411440	12.898641	1653.25	1385.87
5	GUIDE	used	108933040	7.13	22529	0.048	0.143	0.066	0.110	145.930414	12.159796	-174.97	-1269.76
6	GUIDE	used	109314160	8.91	22521	-0.042	0.225	0.111	0.185	145.841992	12.599197	1188.11	-410.31
7	GUIDE	used	109322304	8.58	22518	-0.072	0.236	0.080	0.132	146.016782	12.535162	1194.68	-1067.29

2.4 Star Slots

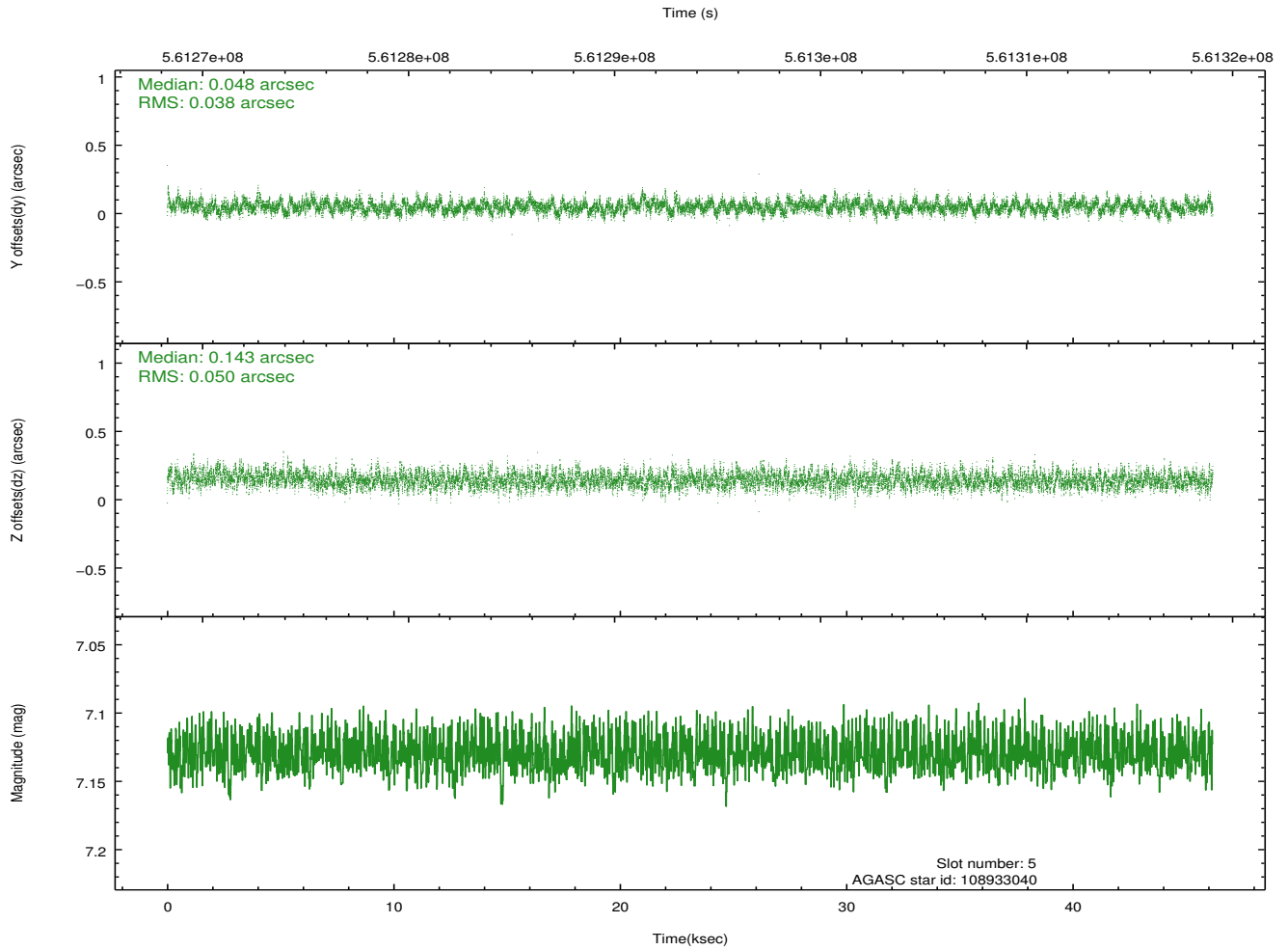
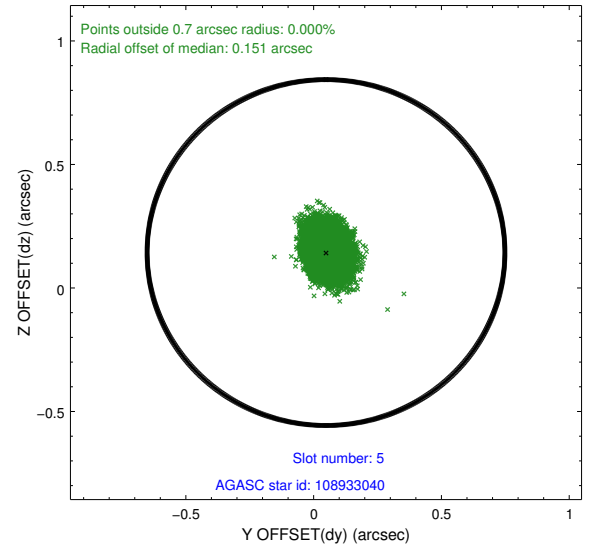
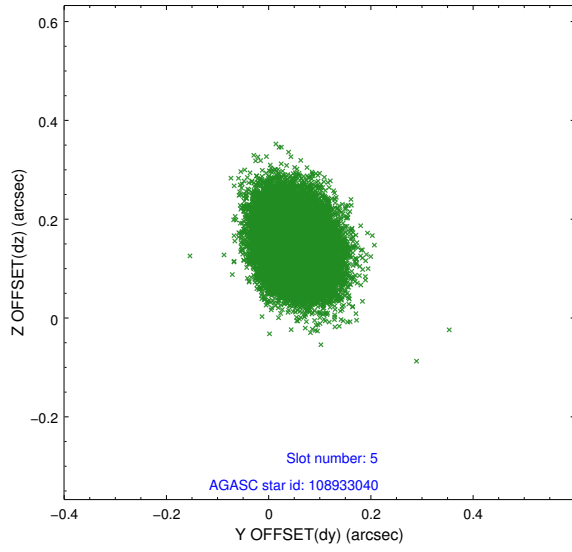
2.4.1 Slot 3



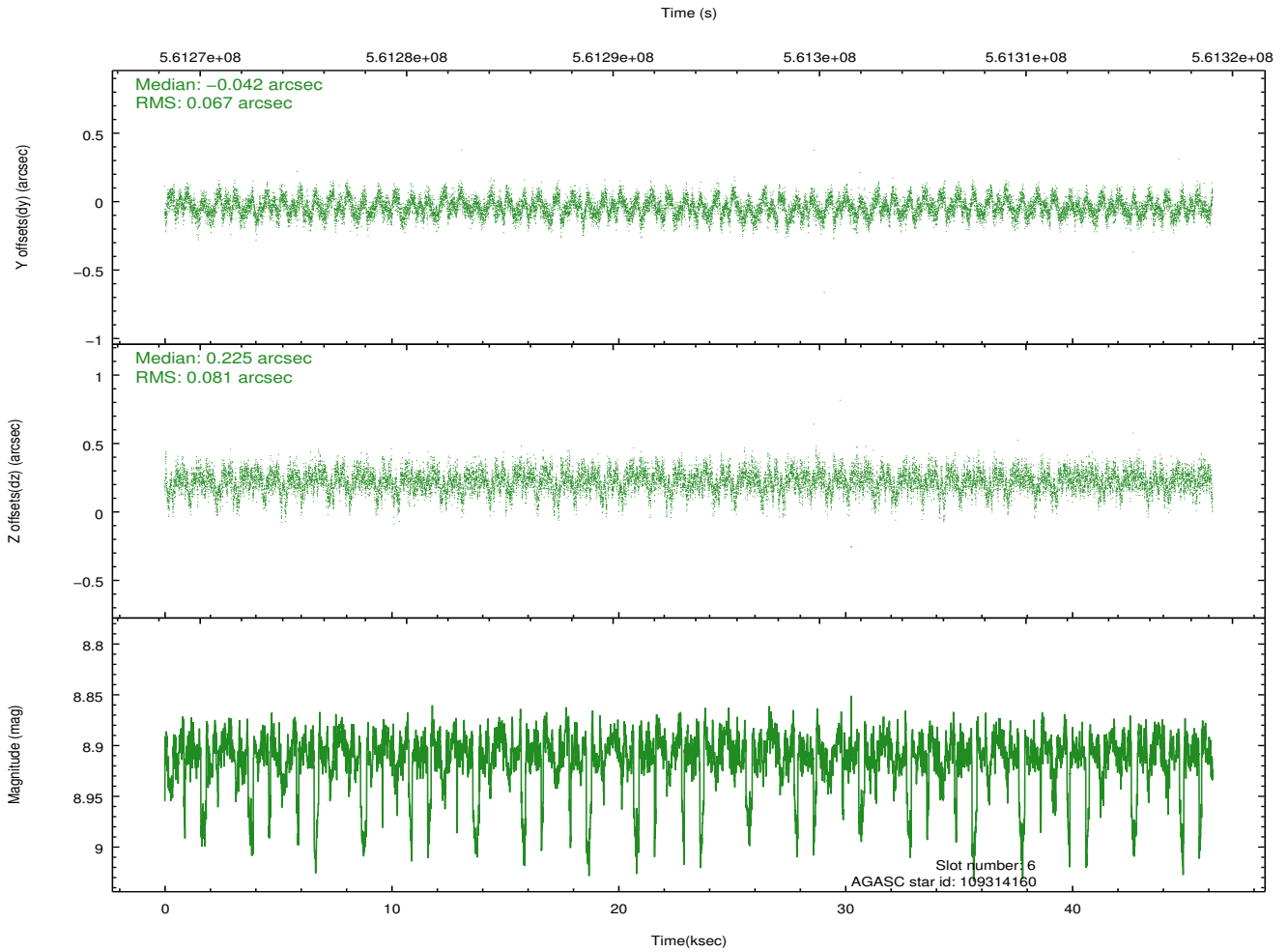
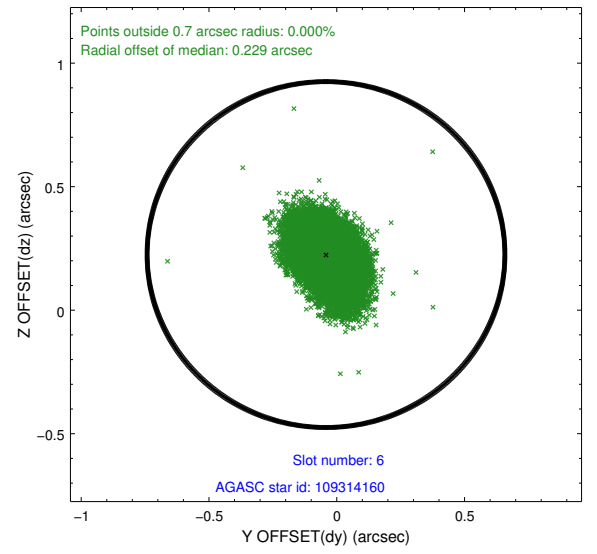
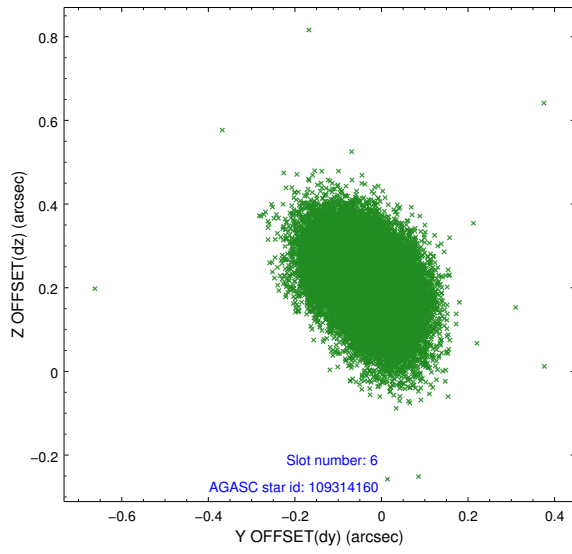
2.4.2 Slot 4



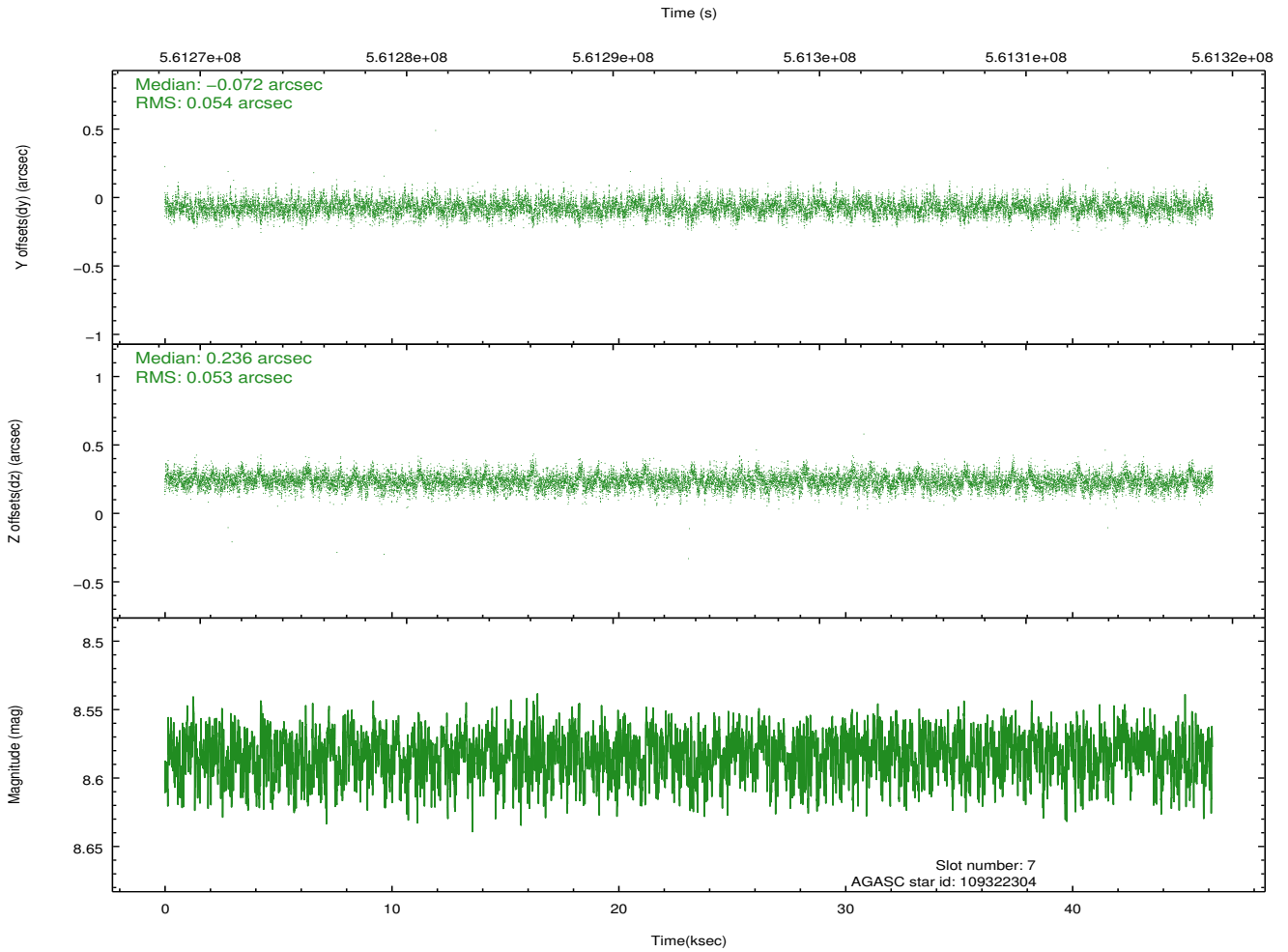
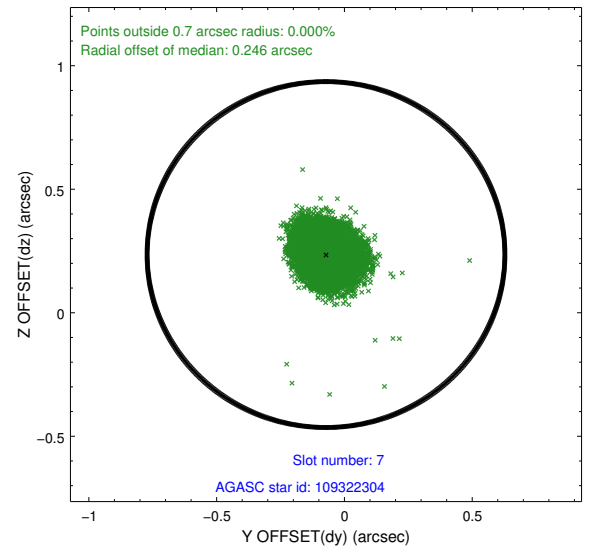
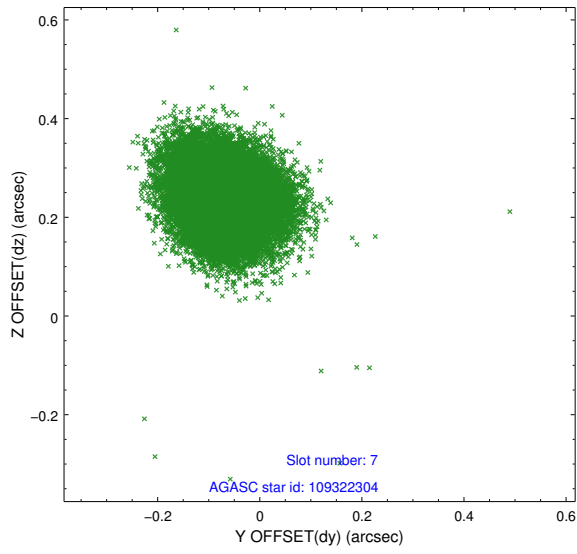
2.4.3 Slot 5



2.4.4 Slot 6

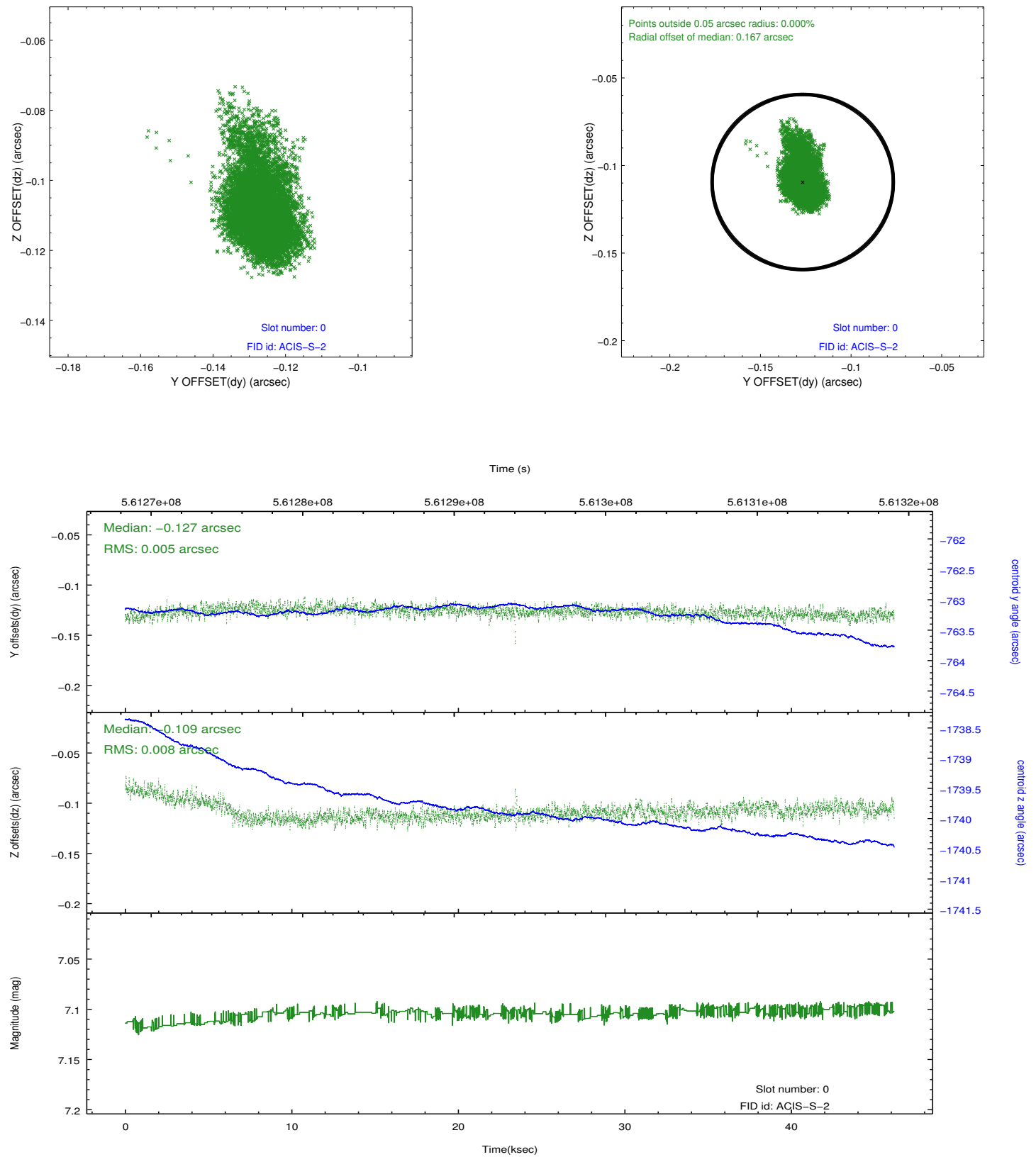


2.4.5 Slot 7

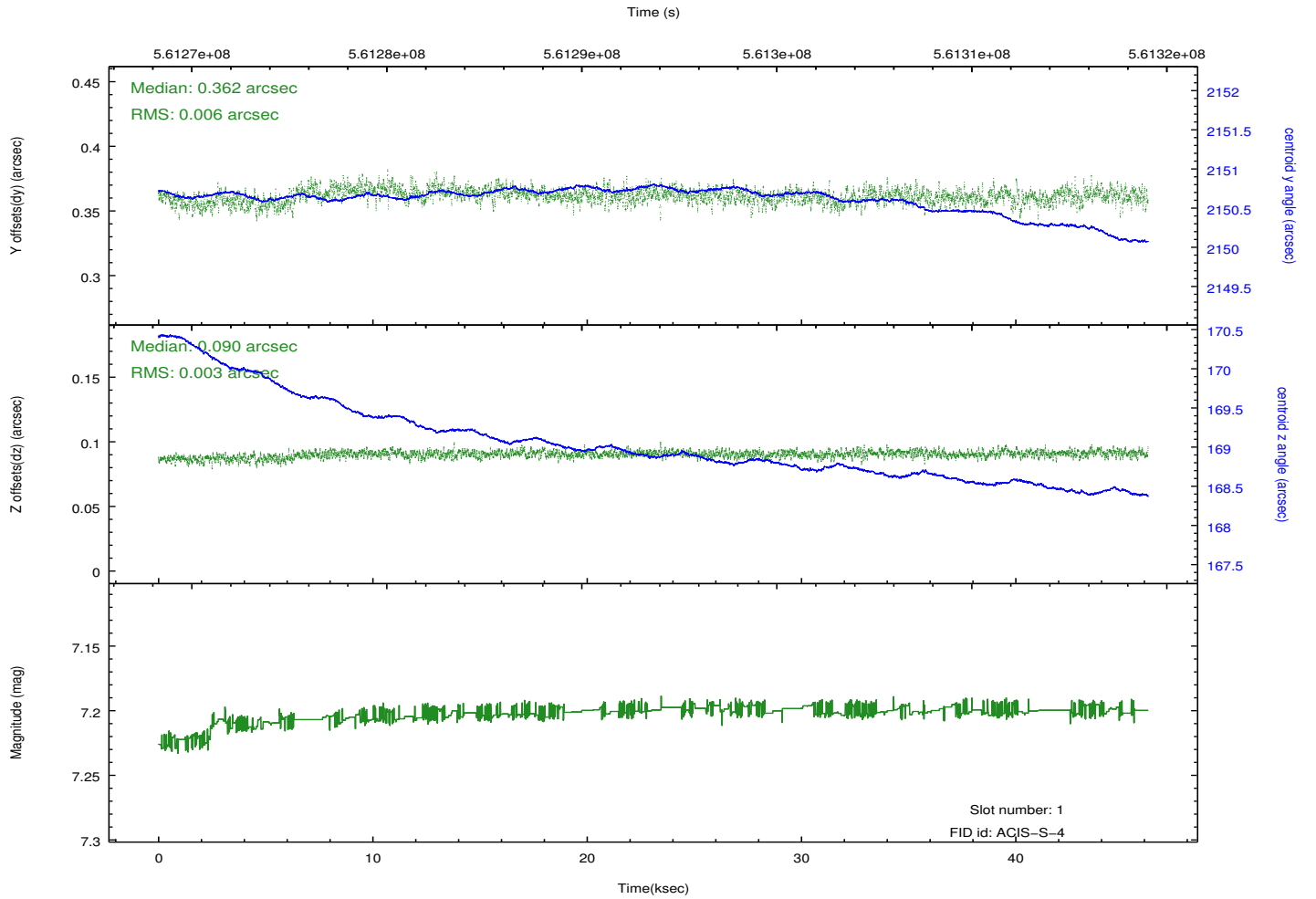
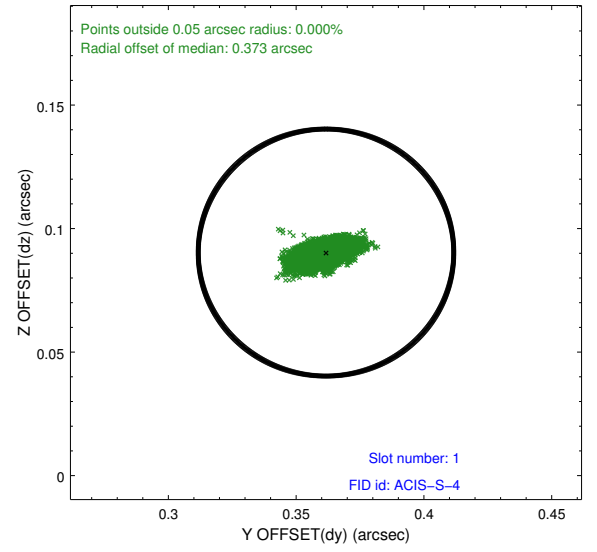
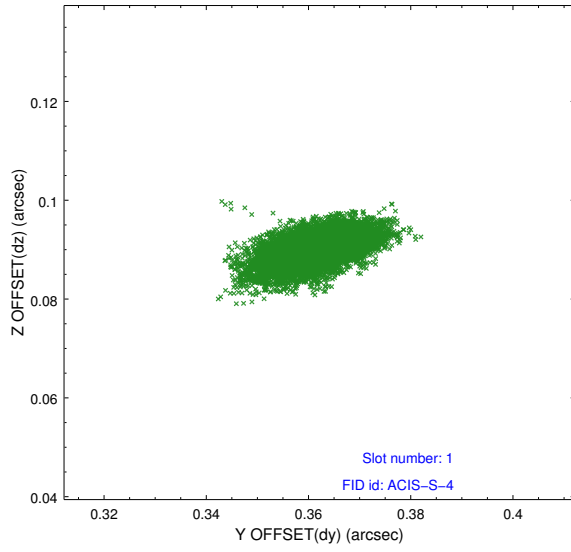


2.5 FID Slots

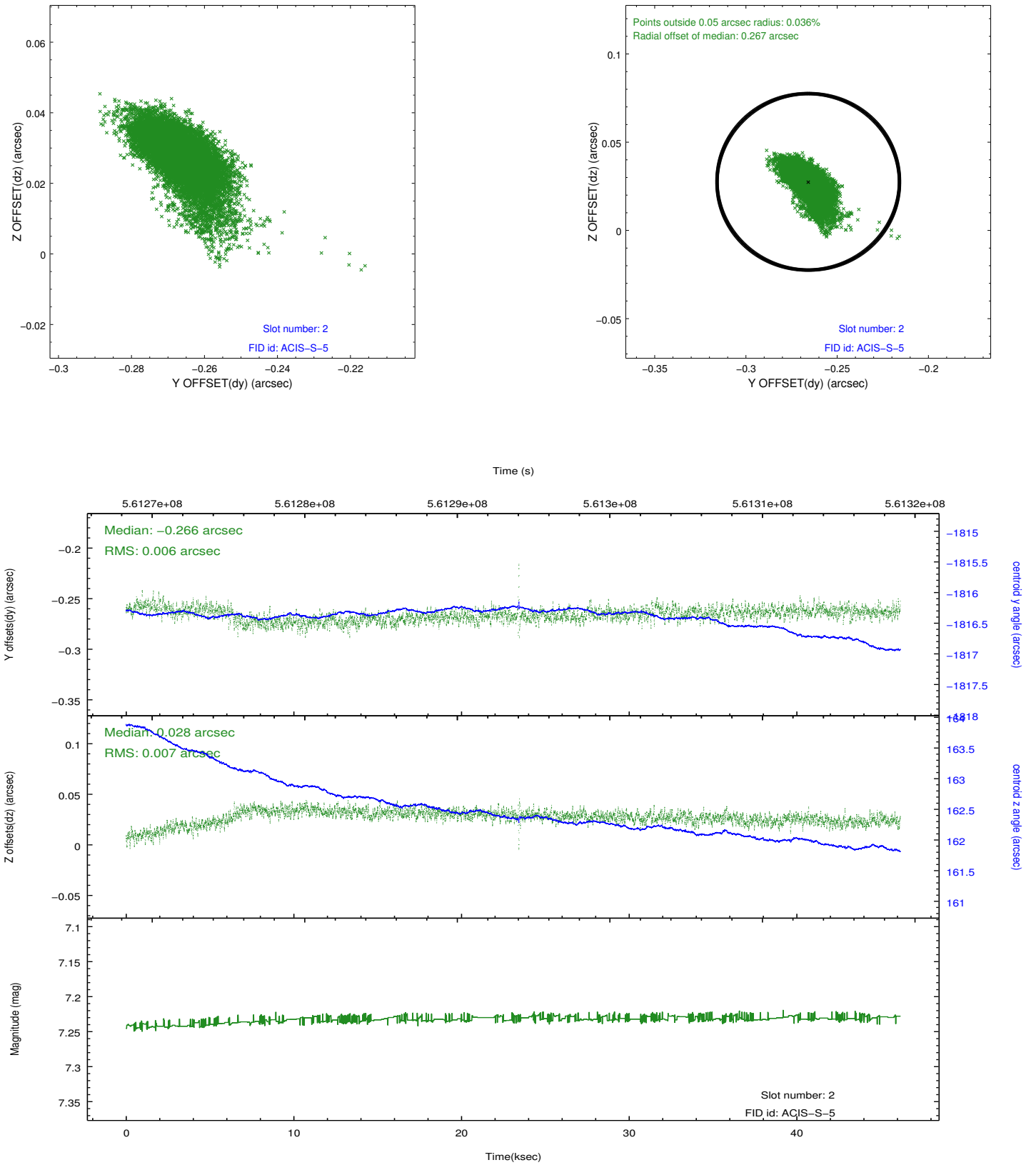
2.5.1 Slot 0



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)	2015.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.056700354338

A.2 Comments

Window constraint met. Roll preference met.