

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4097 - L2 Version 4
Chandra X-Ray Center

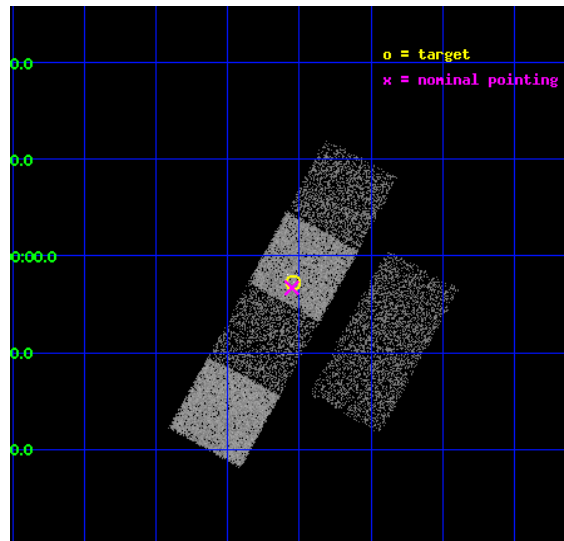
L2 Processing Date : Oct 17 2012

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
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

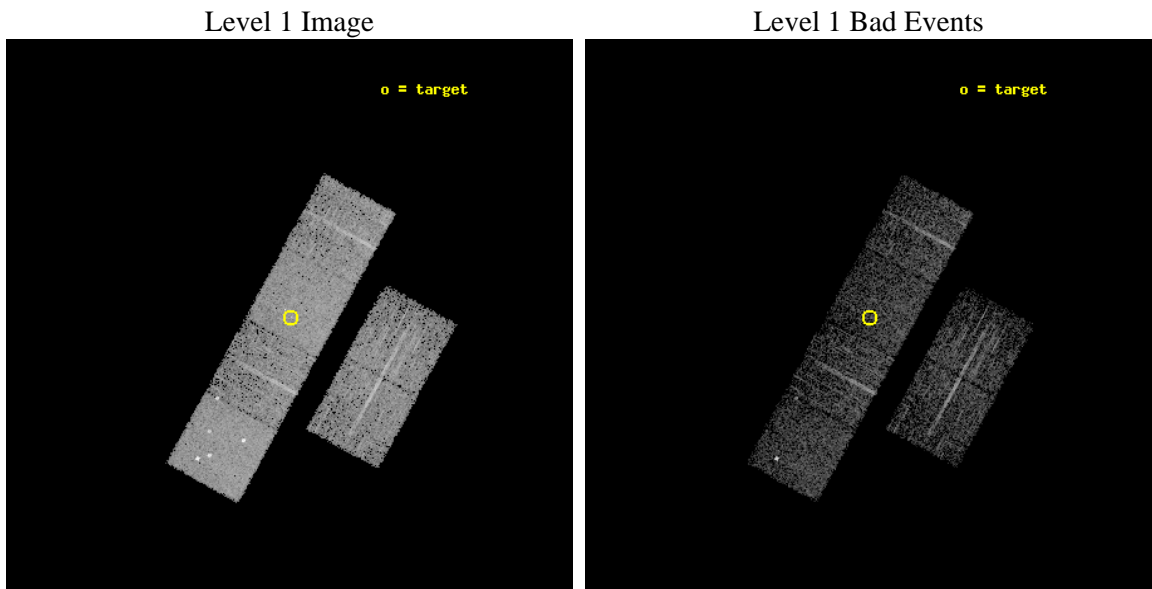
seq_num	700776	Sequence number
obs_id	4097	Observation id
title	X-RAY CONSTRAINTS ON THE STRUCTURE OF THE BROAD EMISSION LINE REGION IN QUASARS	Proposal title
observer	Dr. Gordon Richards	Principal investigator
object	SDSS J005102.42-010244.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	12.76	Observer's specified target RA [deg]
dec_targ	-1.045639	Observer's specified target Dec [deg]
ra_nom	12.763167957716	Nominal RA [deg]
dec_nom	-1.0548743753541	Nominal Dec [deg]
roll_nom	298.7395363443	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3545.5999867916	Sum of GTIs [s]
livetime	3500.7034648549	Livetime [s]
ontime2	3545.5999867916	Sum of GTIs [s]
ontime3	3545.5999867916	Sum of GTIs [s]
ontime5	3545.5999867916	Sum of GTIs [s]
ontime6	3545.5999867916	Sum of GTIs [s]
ontime7	3545.5999867916	Sum of GTIs [s]
ontime8	3545.584952414	Sum of GTIs [s]
l2events	31975	Number of level 2 events



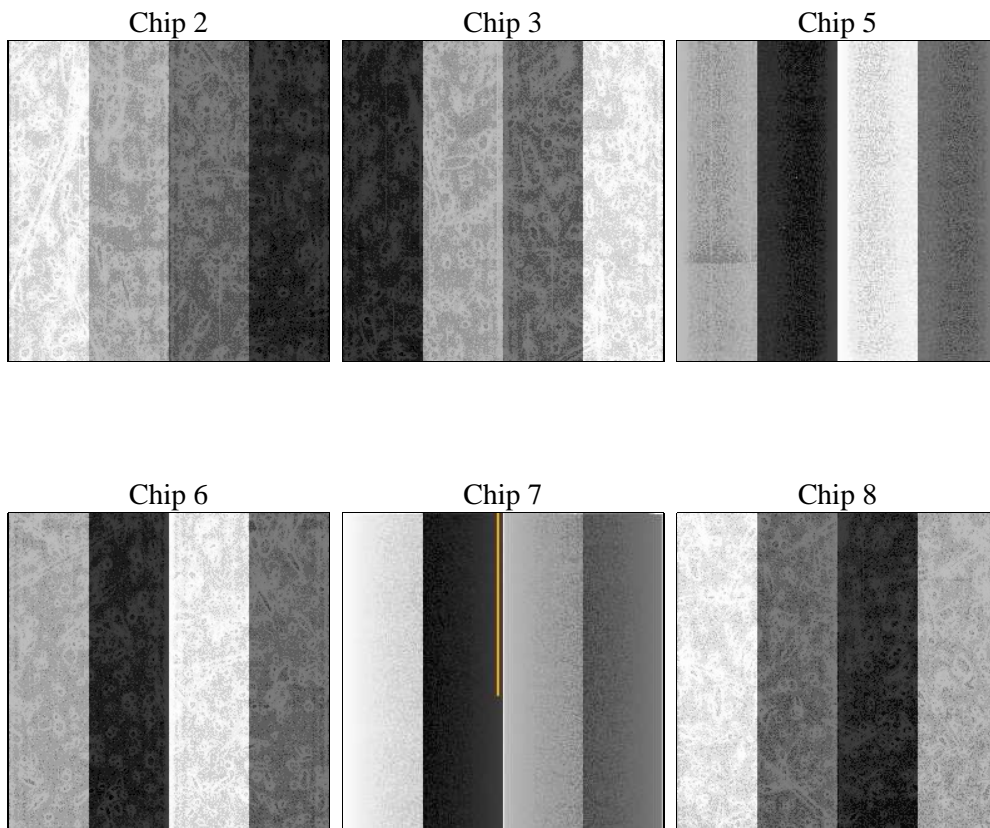
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3614.321000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3545.5999867916	Sum of GTIs [s]
caldsver	4.5.2	 	ontime2	3545.5999867916	Sum of GTIs [s]
date	2012-10-17T11:56:54	Date and time of file creation	ontime3	3545.5999867916	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	3545.5999867916	Sum of GTIs [s]
			ontime6	3545.5999867916	Sum of GTIs [s]
			ontime7	3545.5999867916	Sum of GTIs [s]
			ontime8	3545.584952414	Sum of GTIs [s]
			l1events	143772	Number of level 1 events

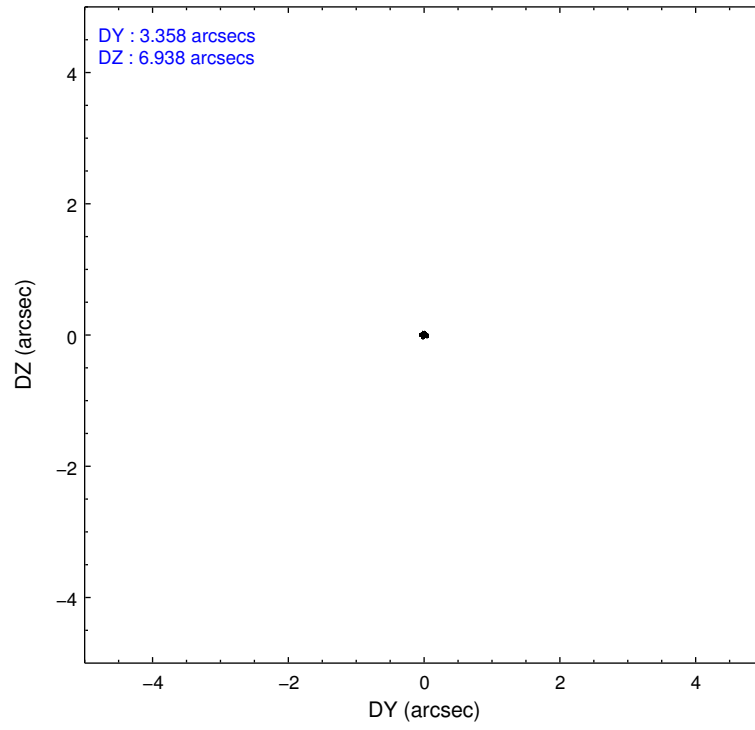
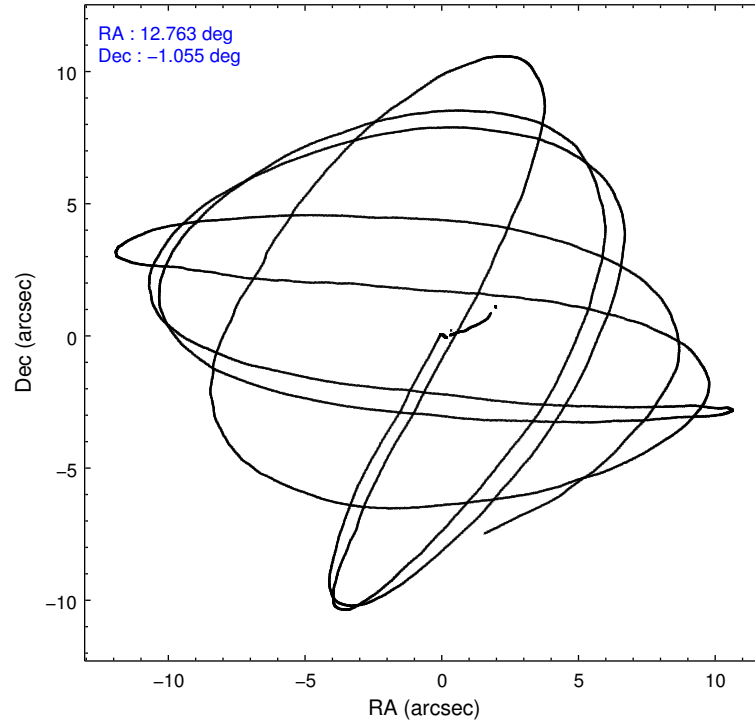
2.1.4 Events

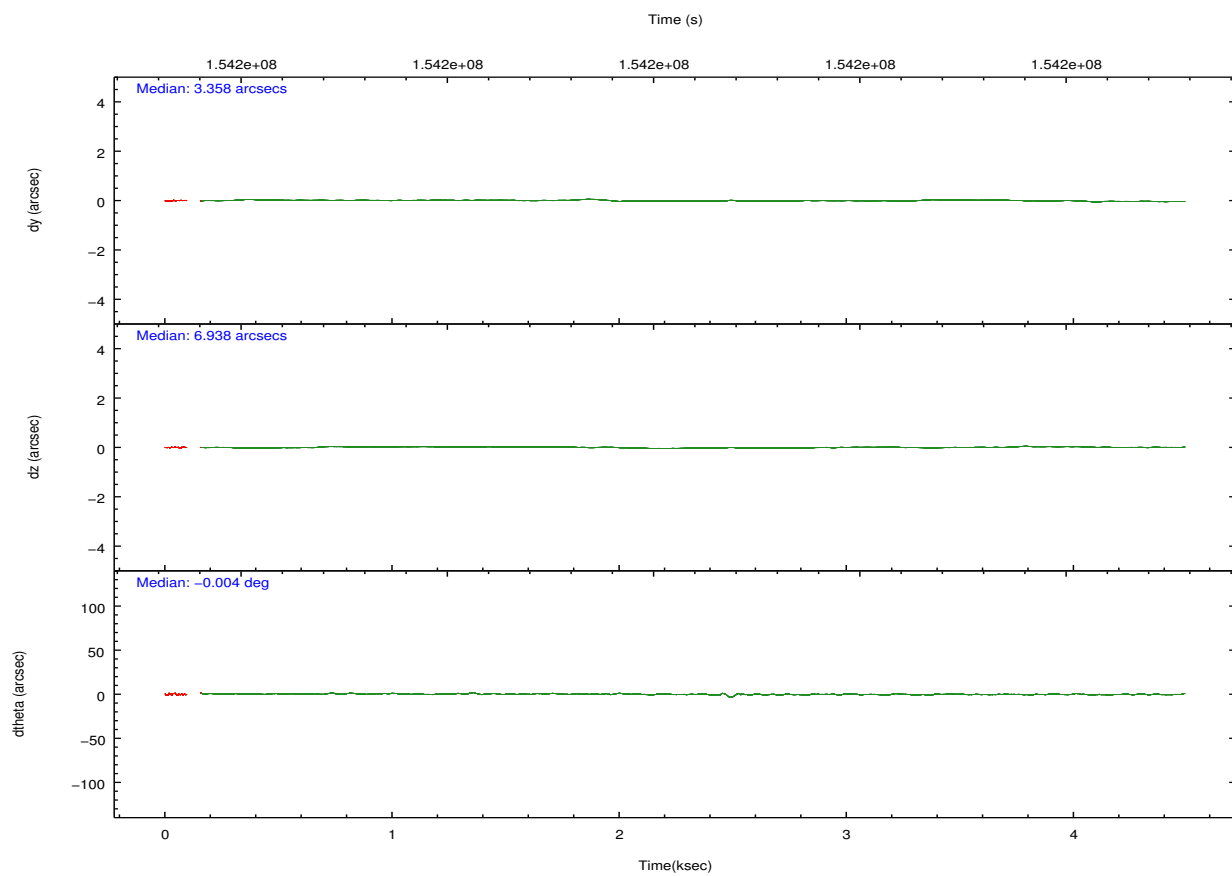
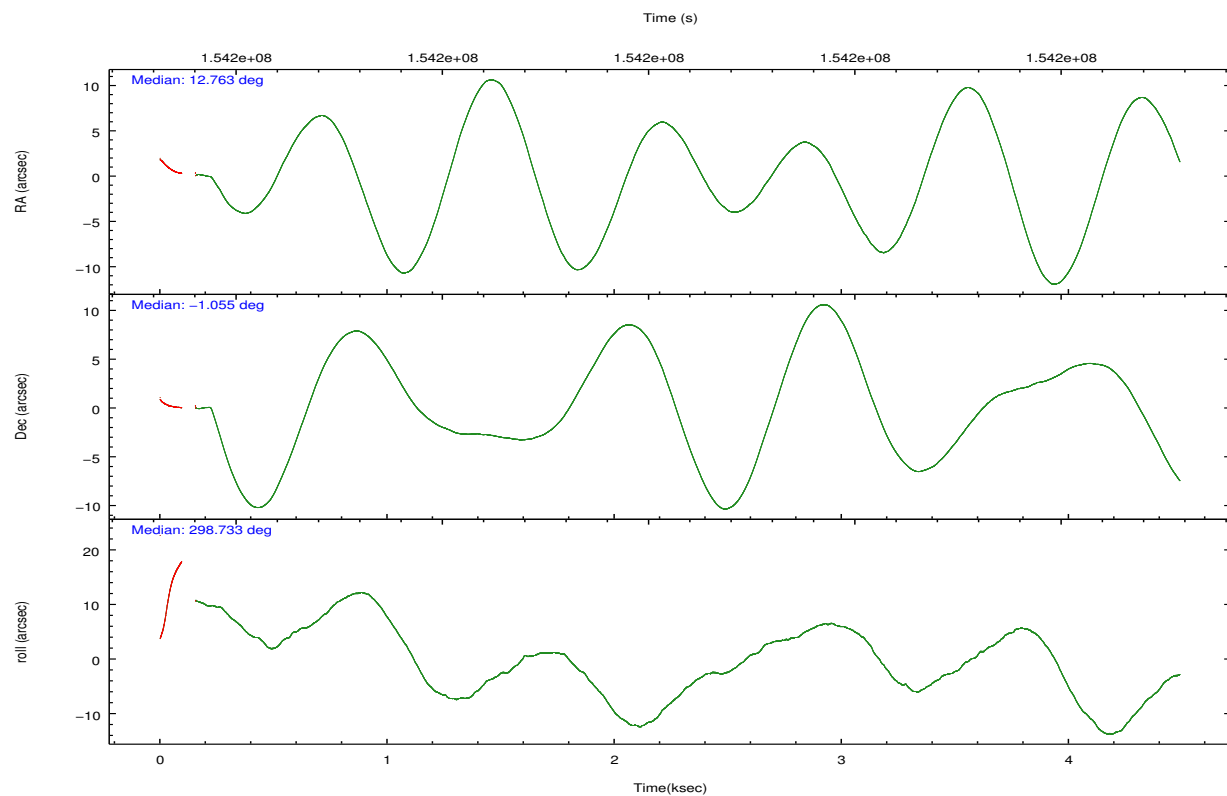
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	19540	19267	32679	20965	27008	24313	grade 0 events	1038	1004	2840	986	1146	1758
rejected events	17211	16941	17073	18524	15867	19108		5%	5%	8%	4%	4%	7%
rejected %	88%	87%	52%	88%	58%	78%	grade 1 events	18	15	111	13	31	11
								0%	0%	0%	0%	0%	0%
							grade 2 events	450	435	4582	478	2194	1054
								2%	2%	14%	2%	8%	4%
							grade 3 events	240	235	537	233	919	582
								1%	1%	1%	1%	3%	2%
							grade 4 events	239	240	523	246	988	552
								1%	1%	1%	1%	3%	2%
							grade 5 events	782	880	2283	907	2536	1191
								4%	4%	6%	4%	9%	4%
							grade 6 events	364	414	7149	500	5916	1268
								1%	2%	21%	2%	21%	5%
							grade 7 events	16409	16044	14654	17602	13278	17897
								83%	83%	44%	83%	49%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	12.739620	12.7631679577162	Subarray requested	NONE	NONE
[deg] Pointing Dec	-1.040989	-1.054874375354108	Alternating exposures requested	N	N
[deg] Pointing Roll	298.582494	298.7395363442966	[s] Primary exposure time	0.000000	3.2
[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)	154196734.184000	154195427.60581			
Observation start date	2002-11-20T16:24:30	2002-11-20T16:03:47			
[s] Observation end time (MET)	154200348.184000	154200662.79353			
Observation end date	2002-11-20T17:24:44	2002-11-20T17:31:02			
Read mode	TIMED	TIMED			

2.3 Aspect



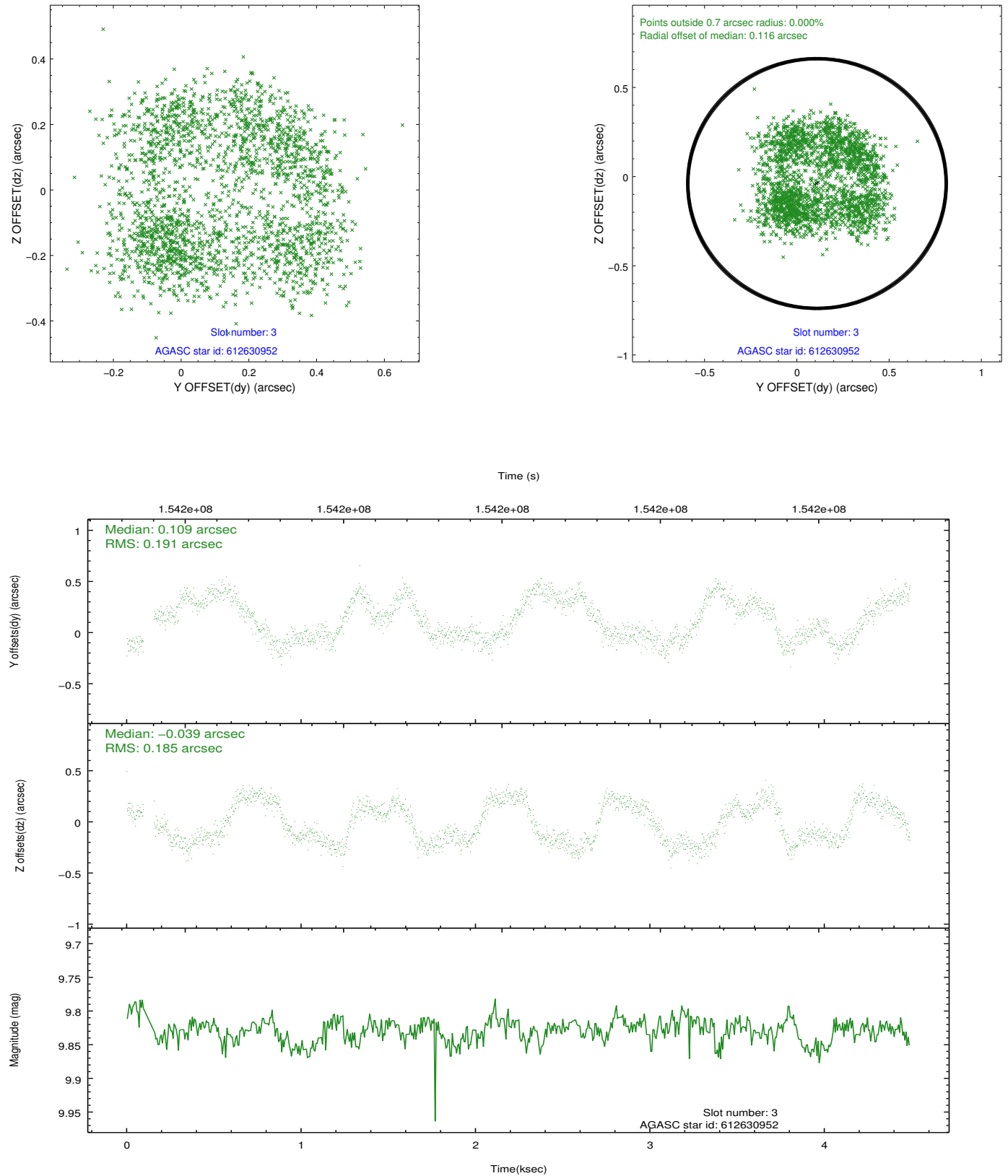


Slot Statistics

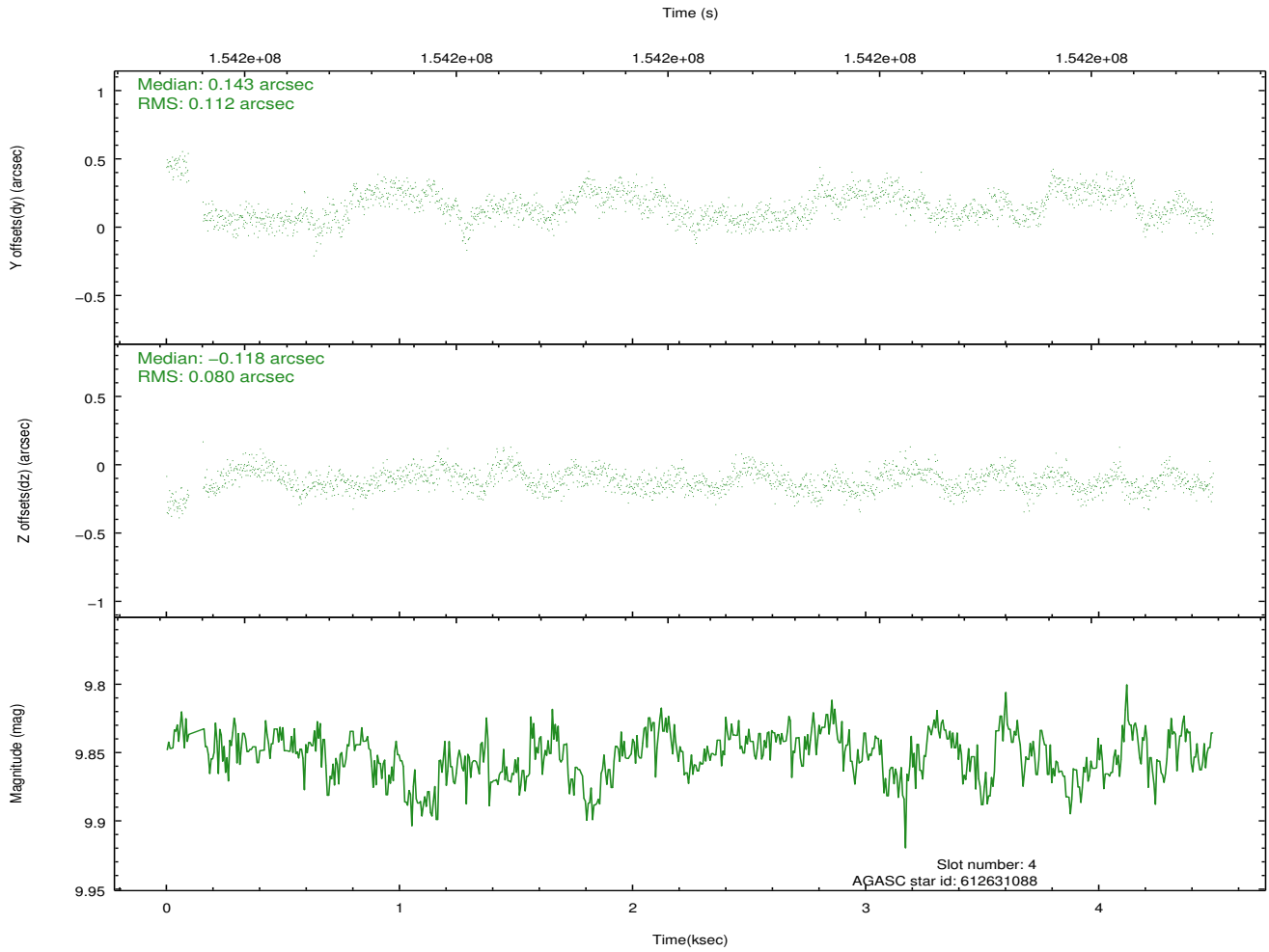
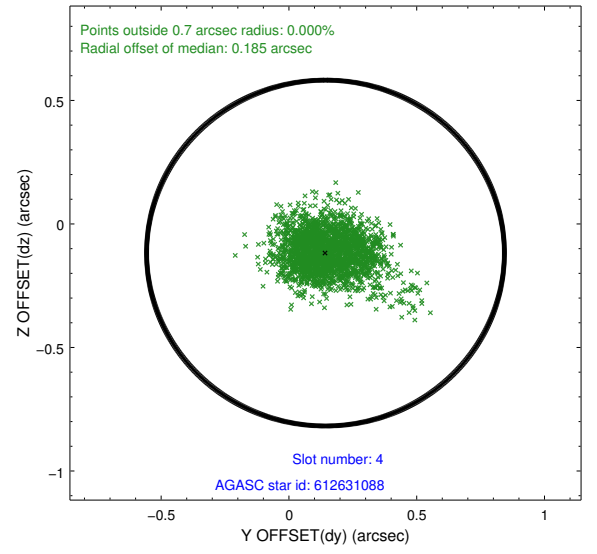
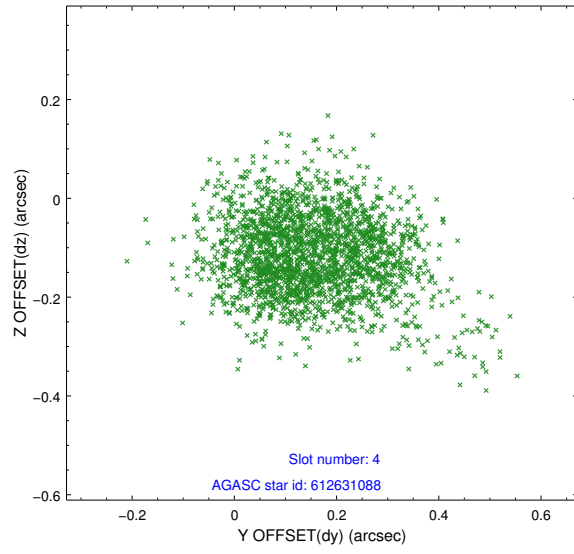
	status	id	mag	n_pts	med_dy	med_dz	drl
	FID	ACIS-S-2	7.12	1082	-0.022	0.002	0.009
	FID	ACIS-S-4	7.20	1082	0.017	0.010	0.011
	FID	ACIS-S-5	7.24	1082	-0.025	-0.003	0.009
	GUIDE	612630952	9.83	2161	0.109	-0.039	0.295
	GUIDE	612631088	9.85	2151	0.143	-0.118	0.139
	GUIDE	612633000	9.81	2162	-0.193	0.024	0.169
	GUIDE	612633056	9.42	2160	-0.081	0.120	0.135
0.0000.0000.0000.0000000.00000000.000.00							

2.4 Star Slots

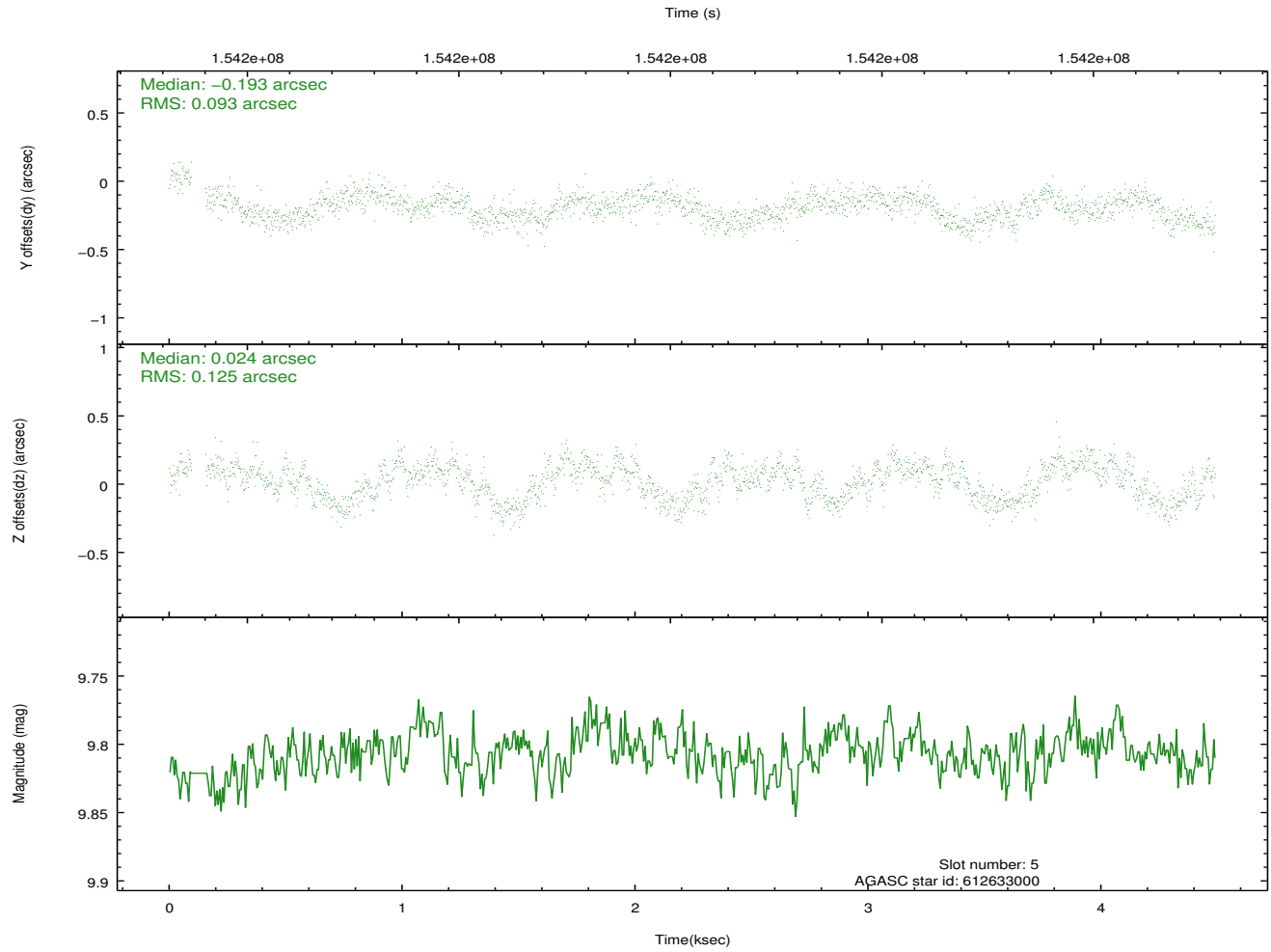
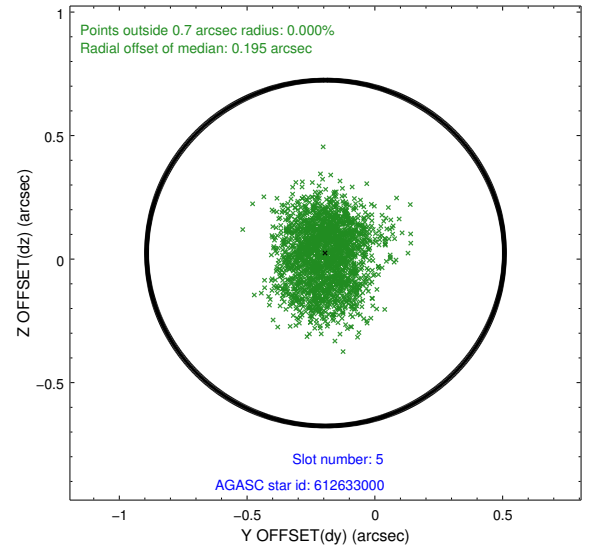
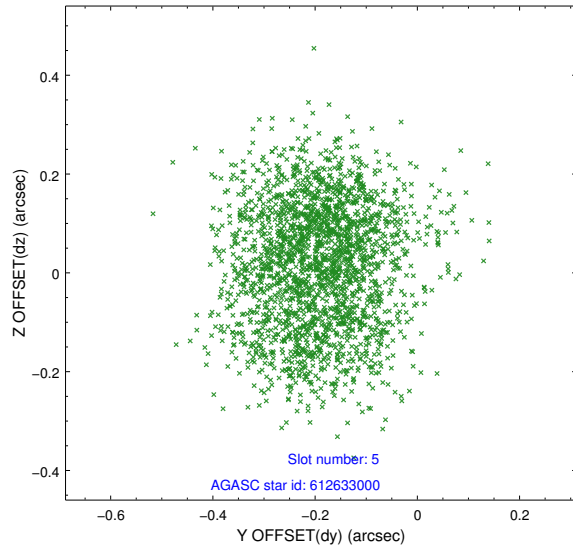
2.4.1 Slot 3



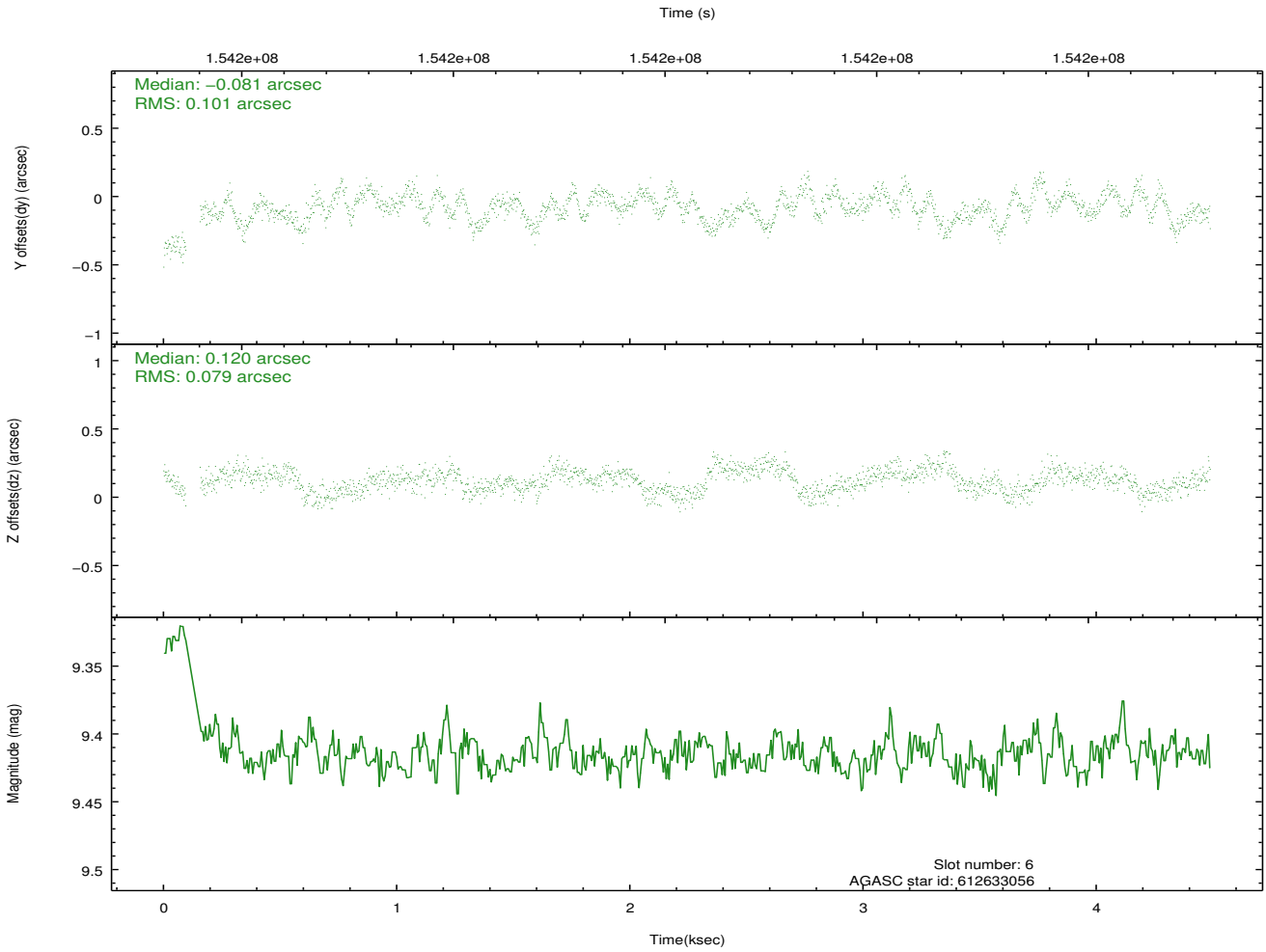
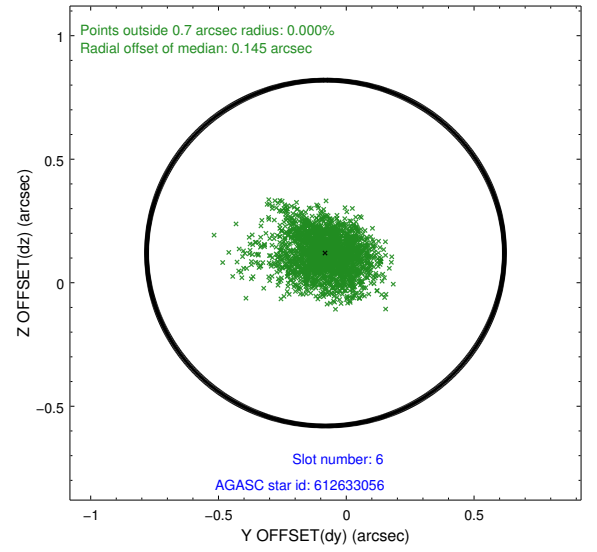
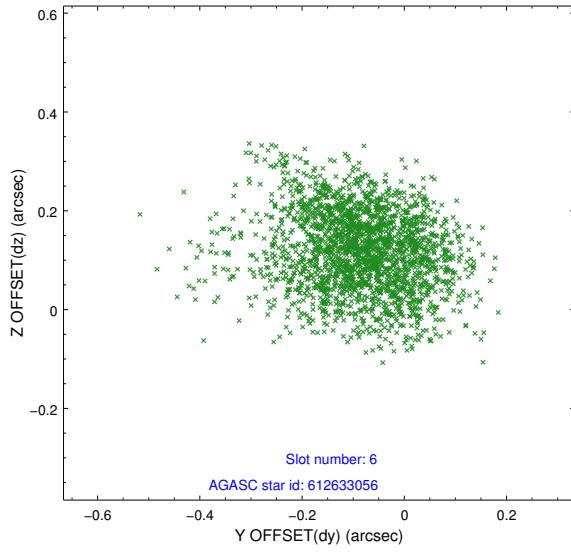
2.4.2 Slot 4



2.4.3 Slot 5

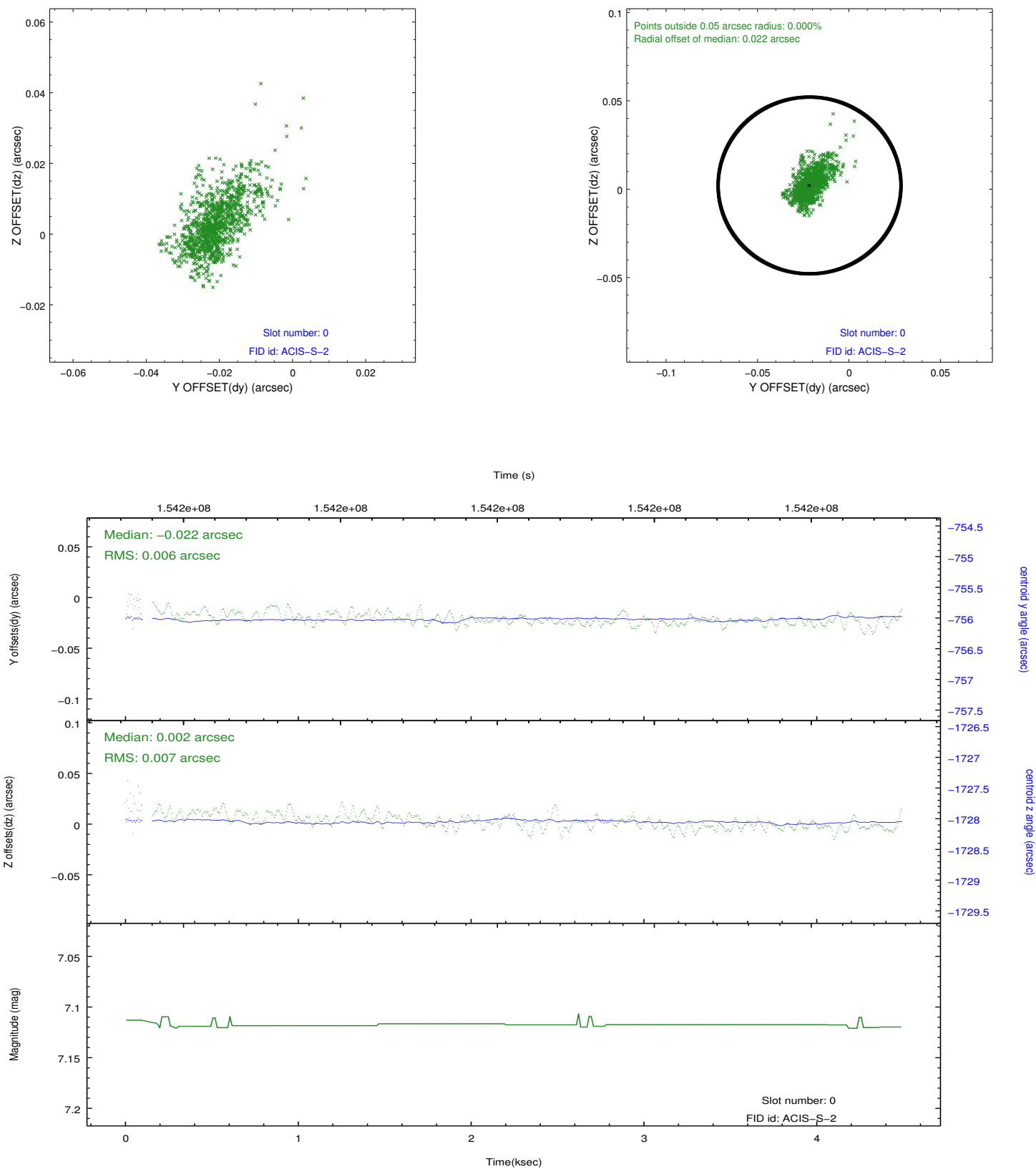


2.4.4 Slot 6

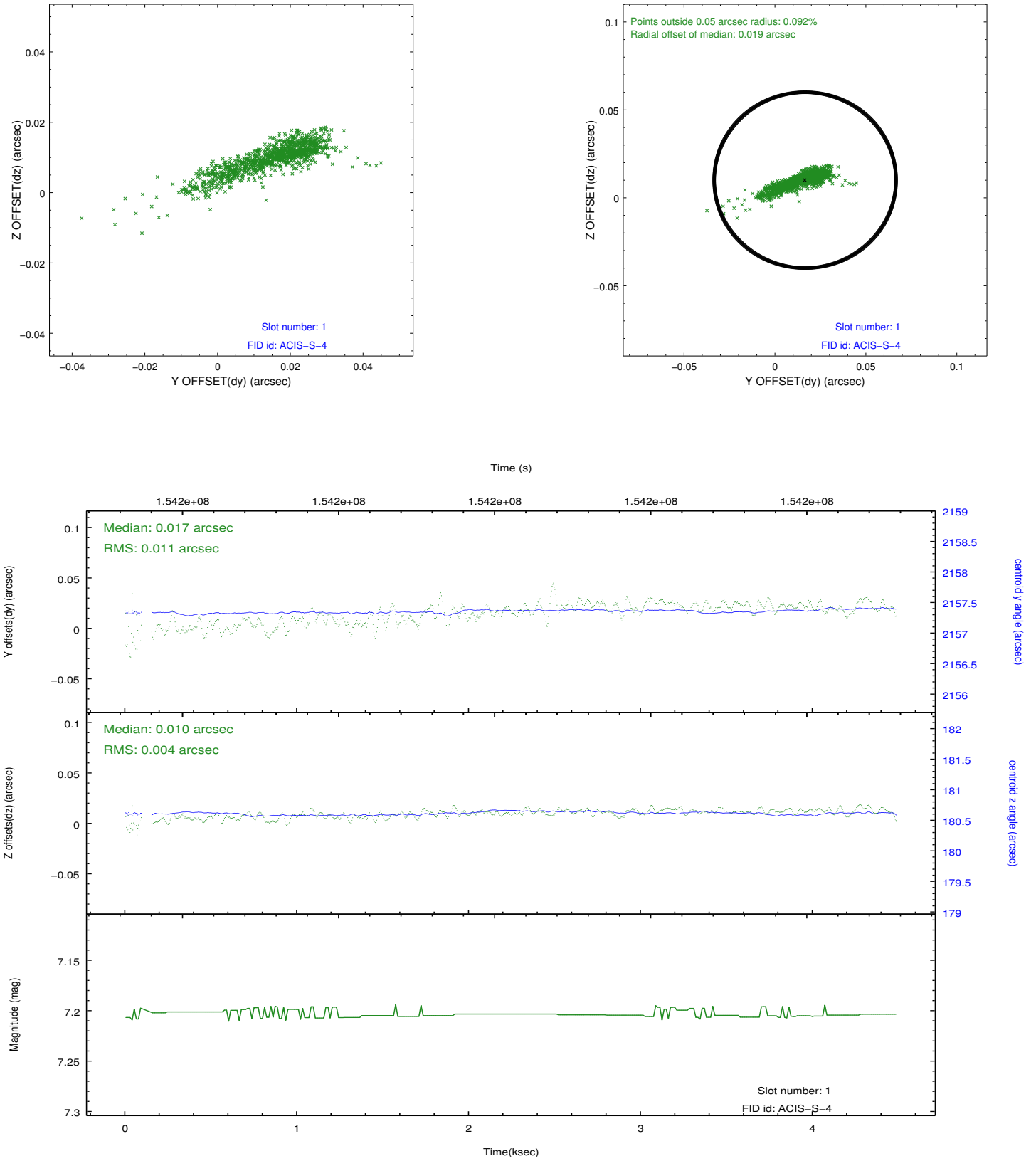


2.5 FID Slots

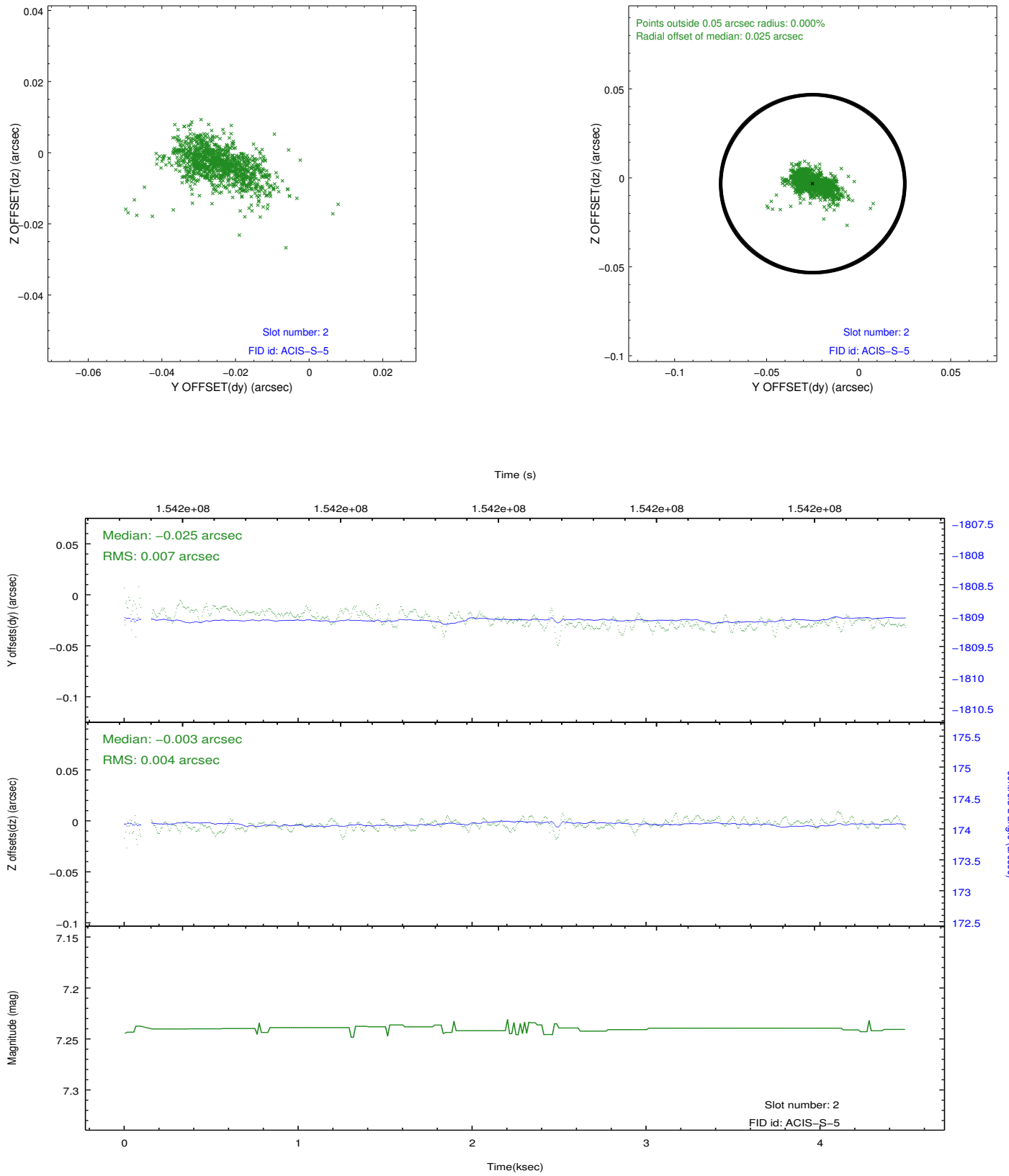
2.5.1 Slot 0



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)	2012.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.548

A.2 Comments