

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14227 - L2 Version 1
Chandra X-Ray Center

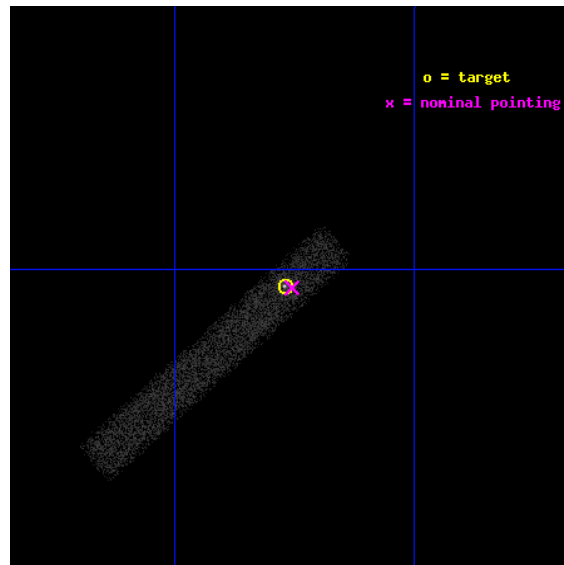
L2 Processing Date : Jul 30 2012

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1 Front

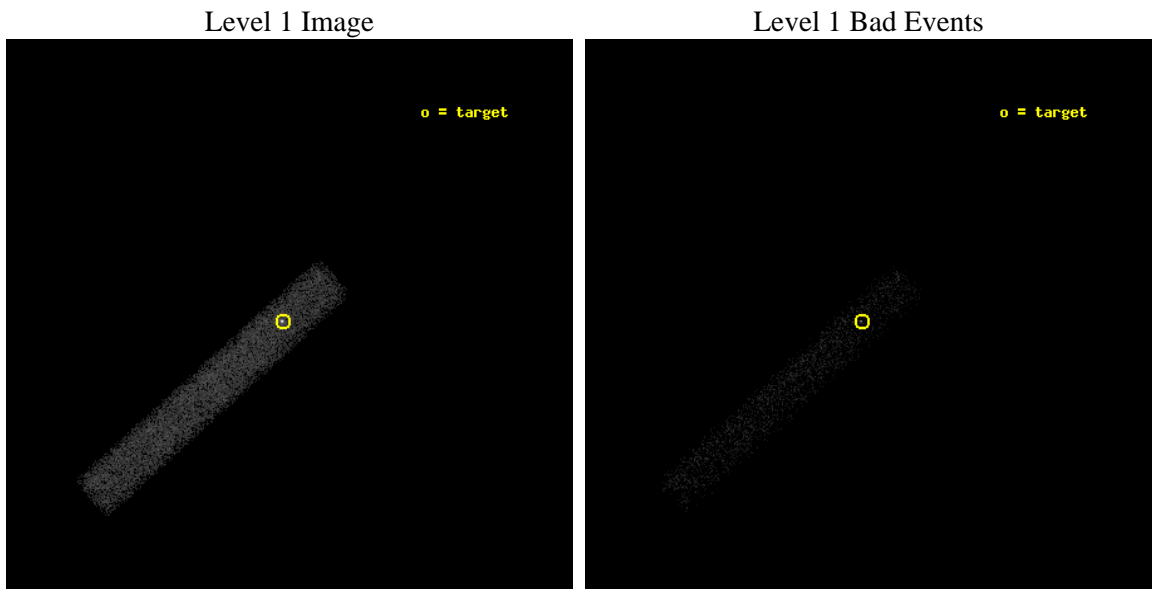
seq_num	401423	Sequence number
obs_id	14227	Observation id
title	Crust cooling of accretion heated neutron stars	Proposal title
observer	Dr. Rudy Wijnands	Principal investigator
object	MAXI J0556-332	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	89.1925	Observer's specified target RA [deg]
dec_targ	-33.173972	Observer's specified target Dec [deg]
ra_nom	89.189019407369	Nominal RA [deg]
dec_nom	-33.174757918028	Nominal Dec [deg]
roll_nom	137.90994503232	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20068.685772896	Sum of GTIs [s]
livetime	18201.238683925	Livetime [s]
ontime7	20068.685772896	Sum of GTIs [s]
l2events	14267	Number of level 2 events



2 OBI

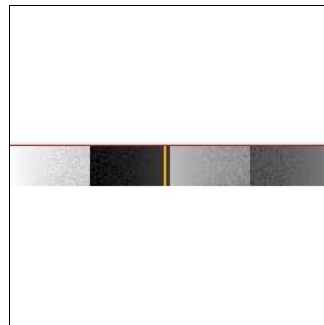
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	20068.685772896	Sum of GTIs [s]
caldbver	4.5.1	 	ontime7	20068.685772896	Sum of GTIs [s]
date	2012-07-30T03:27:41	Date and time of file creation	l1events	24212	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

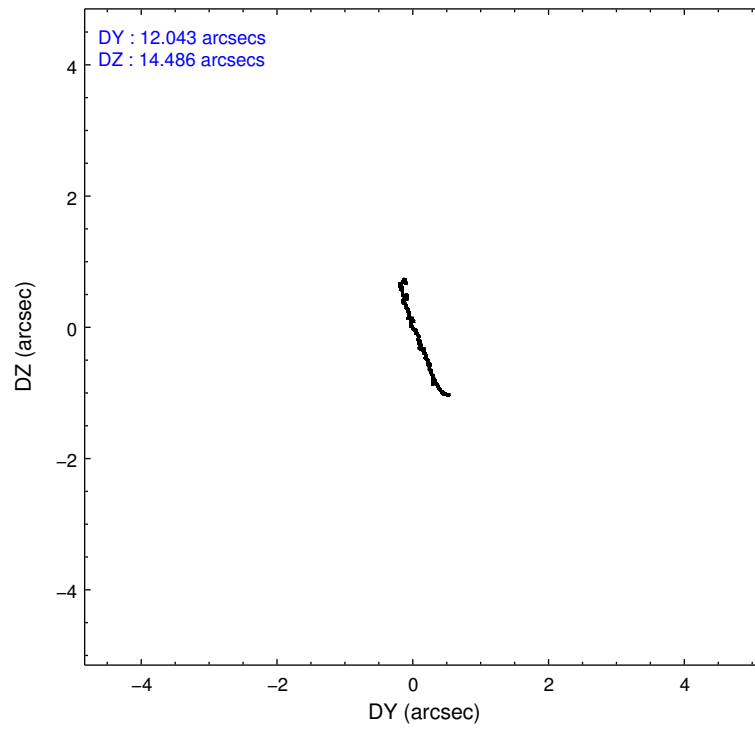
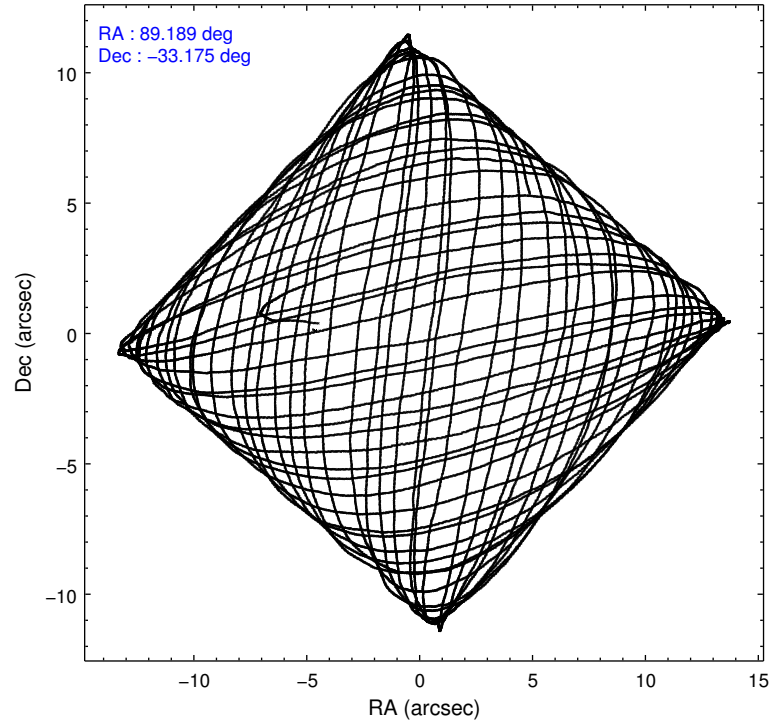
	ccd 7
level 1 events	24212
rejected events	9536
rejected %	39%

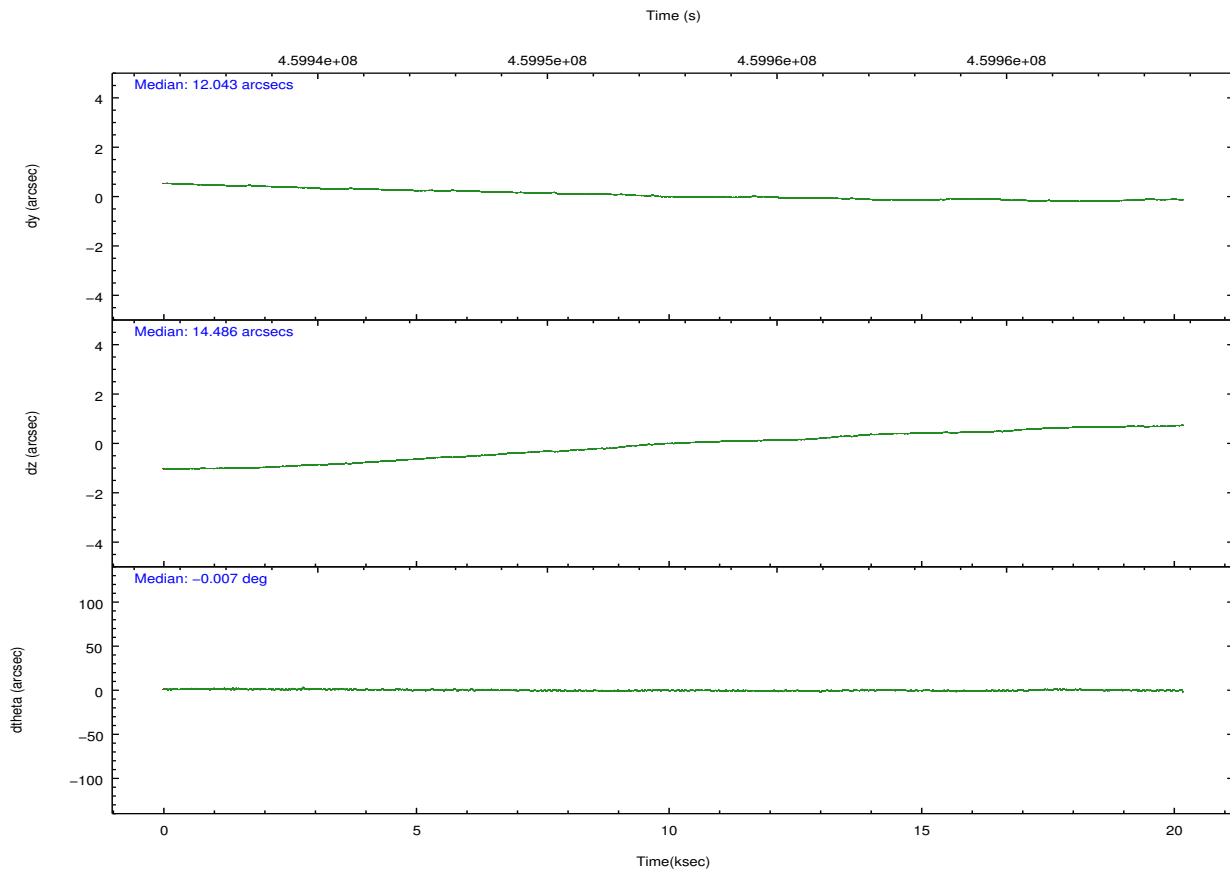
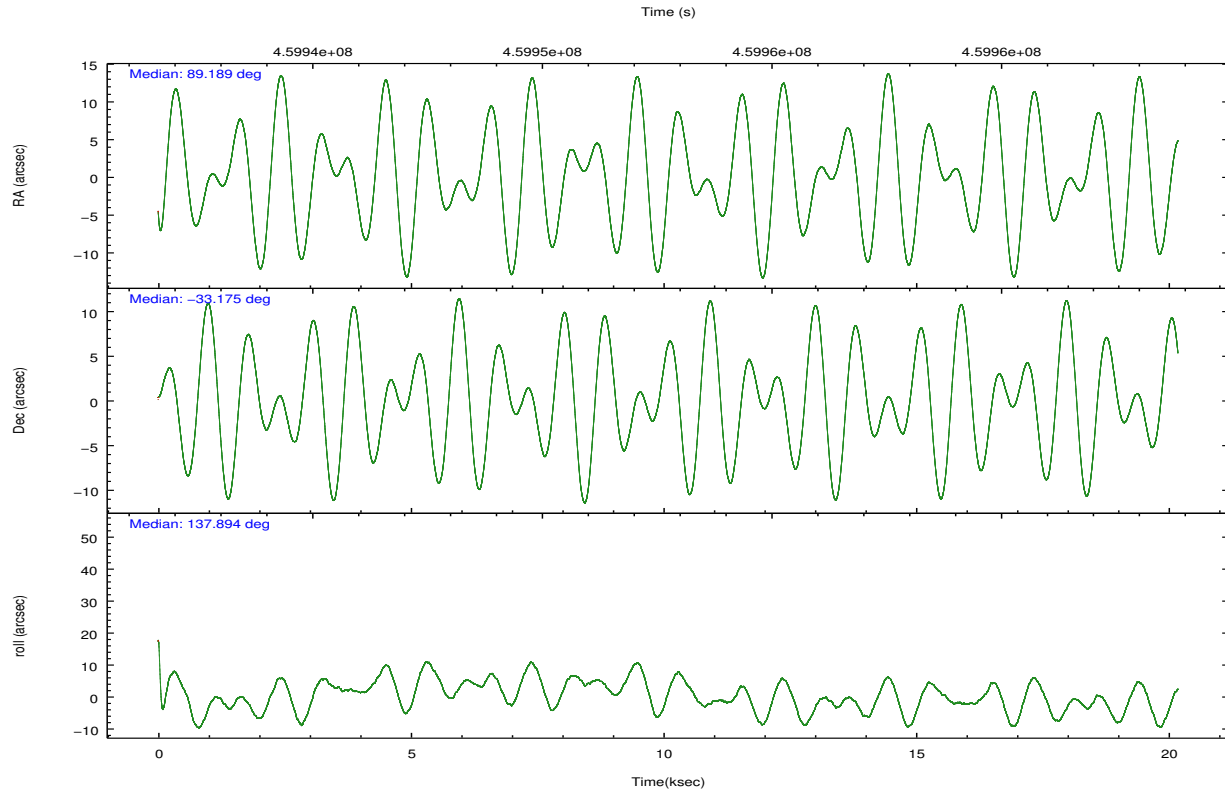
	ccd 7
grade 0 events	2458
	10%
grade 1 events	41
	0%
grade 2 events	3165
	13%
grade 3 events	1881
	7%
grade 4 events	1844
	7%
grade 5 events	2042
	8%
grade 6 events	5330
	22%
grade 7 events	7451
	30%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	89.221047	89.18901940736913	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-33.180132	-33.17475791802848	Subarray start row	449	449
[deg] Pointing Roll	137.770832	137.9099450323225	Subarray row count	128	128
[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	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	459942828.184000	459941605.46977			
Observation start date	2012-07-29T09:52:41	2012-07-29T09:33:25			
[s] Observation end time (MET)	459962828.184000	459964065.78347			
Observation end date	2012-07-29T15:26:01	2012-07-29T15:47:45			
Read mode	TIMED	TIMED			

2.3 Aspect





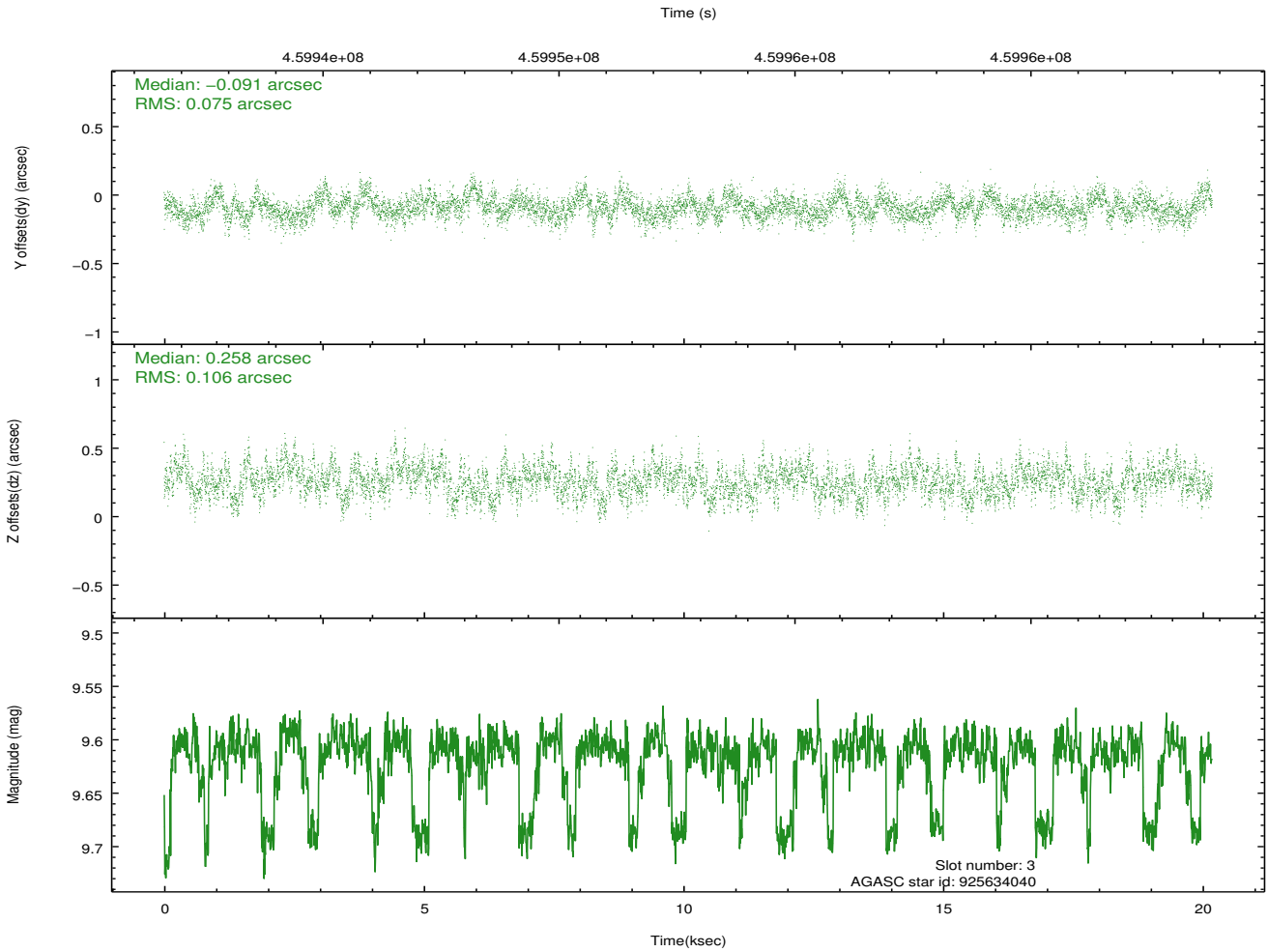
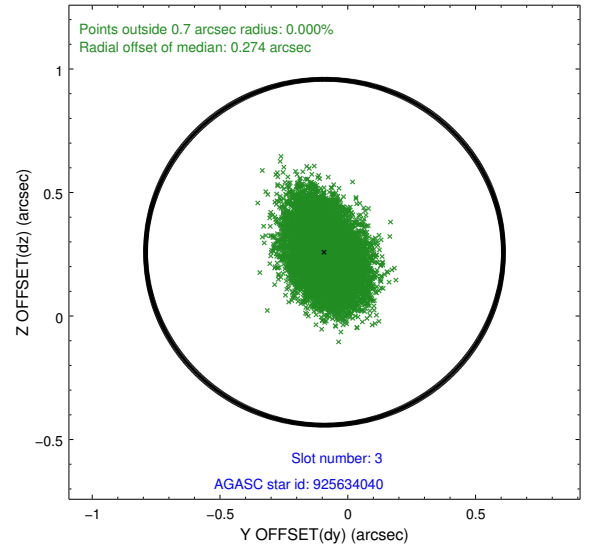
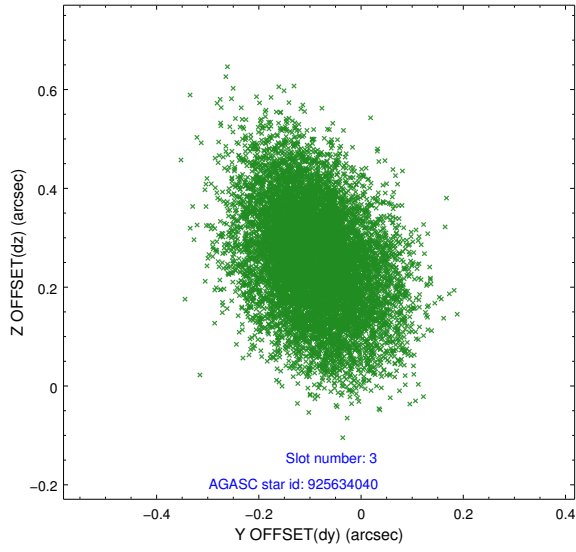
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.01	4924	0.078	-0.045	0.020	0.027	0.000000	0.000000	931.15	-1731.39
1	FID	ACIS-S-5	7.05	4924	-0.122	0.057	0.013	0.023	0.000000	0.000000	-1817.99	166.00
2	FID	ACIS-S-6	7.14	4924	0.022	0.001	0.029	0.037	0.000000	0.000000	396.38	810.17
3	GUIDE	925634040	9.61	9837	-0.091	0.258	0.138	0.228	89.491534	-32.836989	223.49	-1463.10
4	GUIDE	925642712	9.36	9840	0.126	0.026	0.104	0.167	89.246145	-33.485552	-794.69	763.76
5	GUIDE	925642880	7.76	9844	0.021	-0.007	0.087	0.143	89.133148	-33.434507	-420.02	855.73
6	GUIDE	925643520	9.25	9842	0.065	-0.025	0.123	0.191	88.970468	-33.727415	-769.86	1964.68
7	GUIDE	925645552	7.59	9843	-0.126	-0.250	0.069	0.110	88.738097	-33.665766	-106.40	2269.80

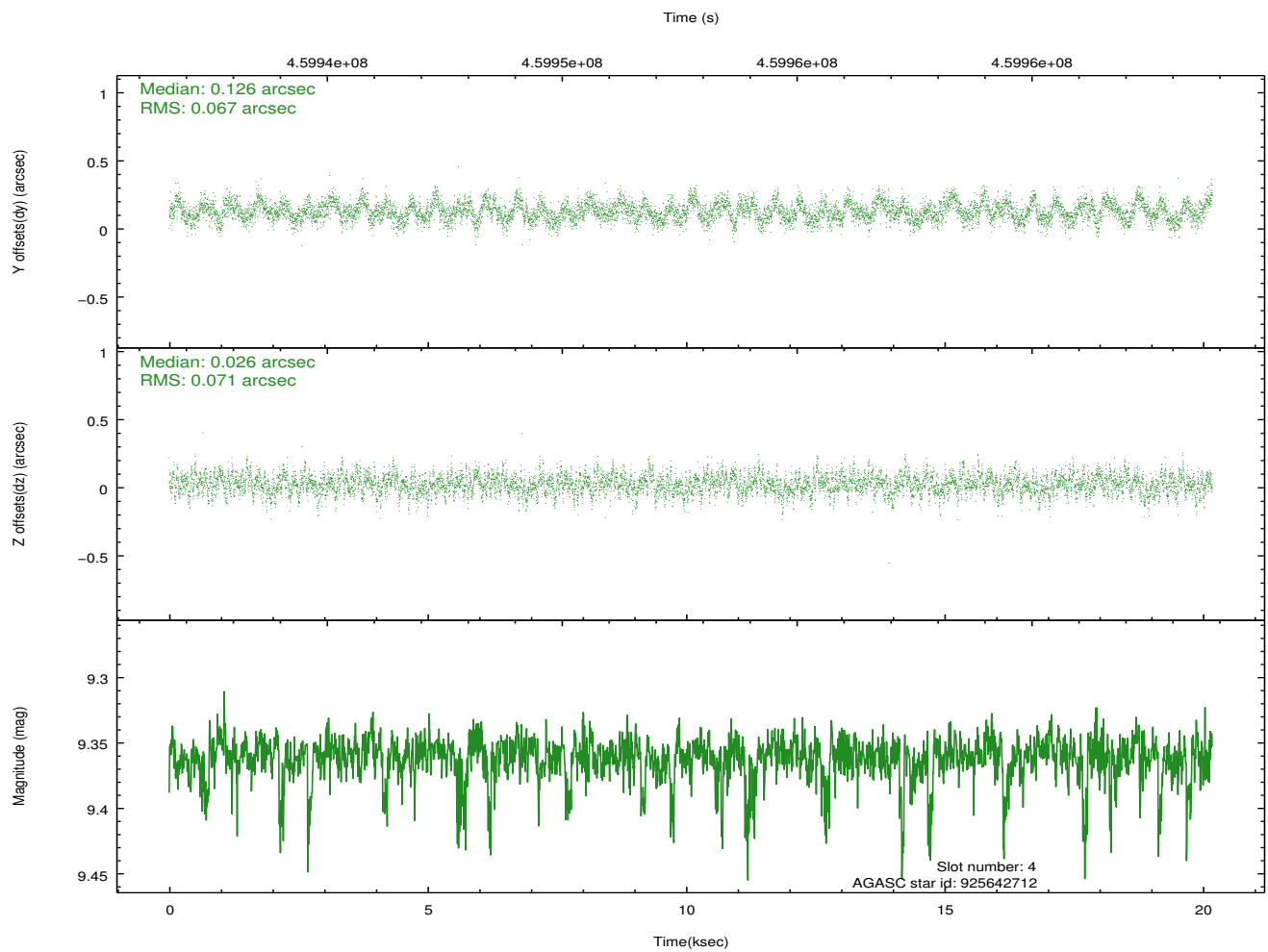
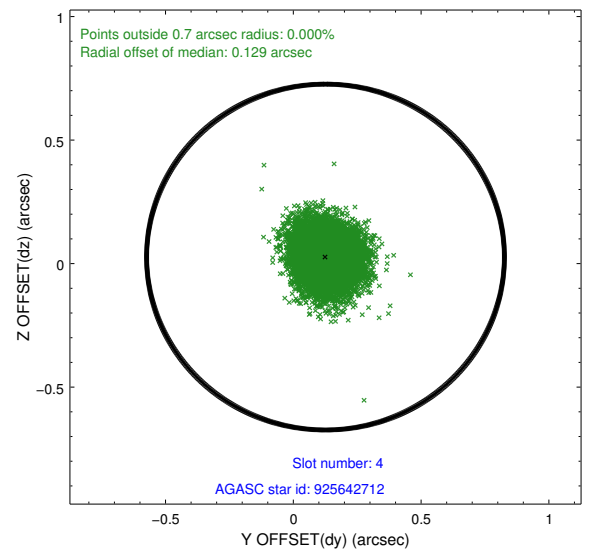
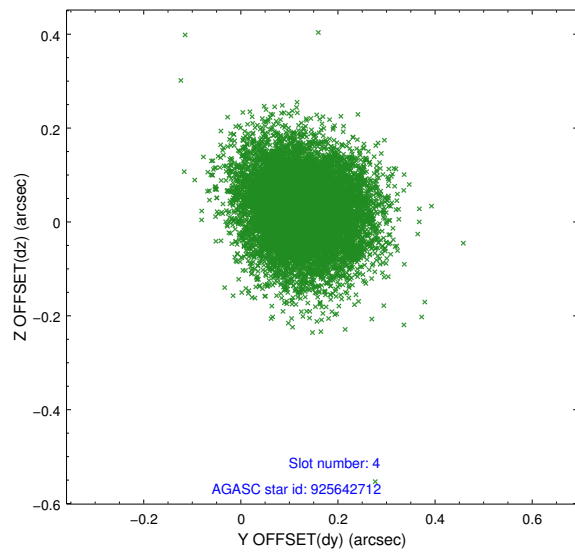
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2.4 Star Slots

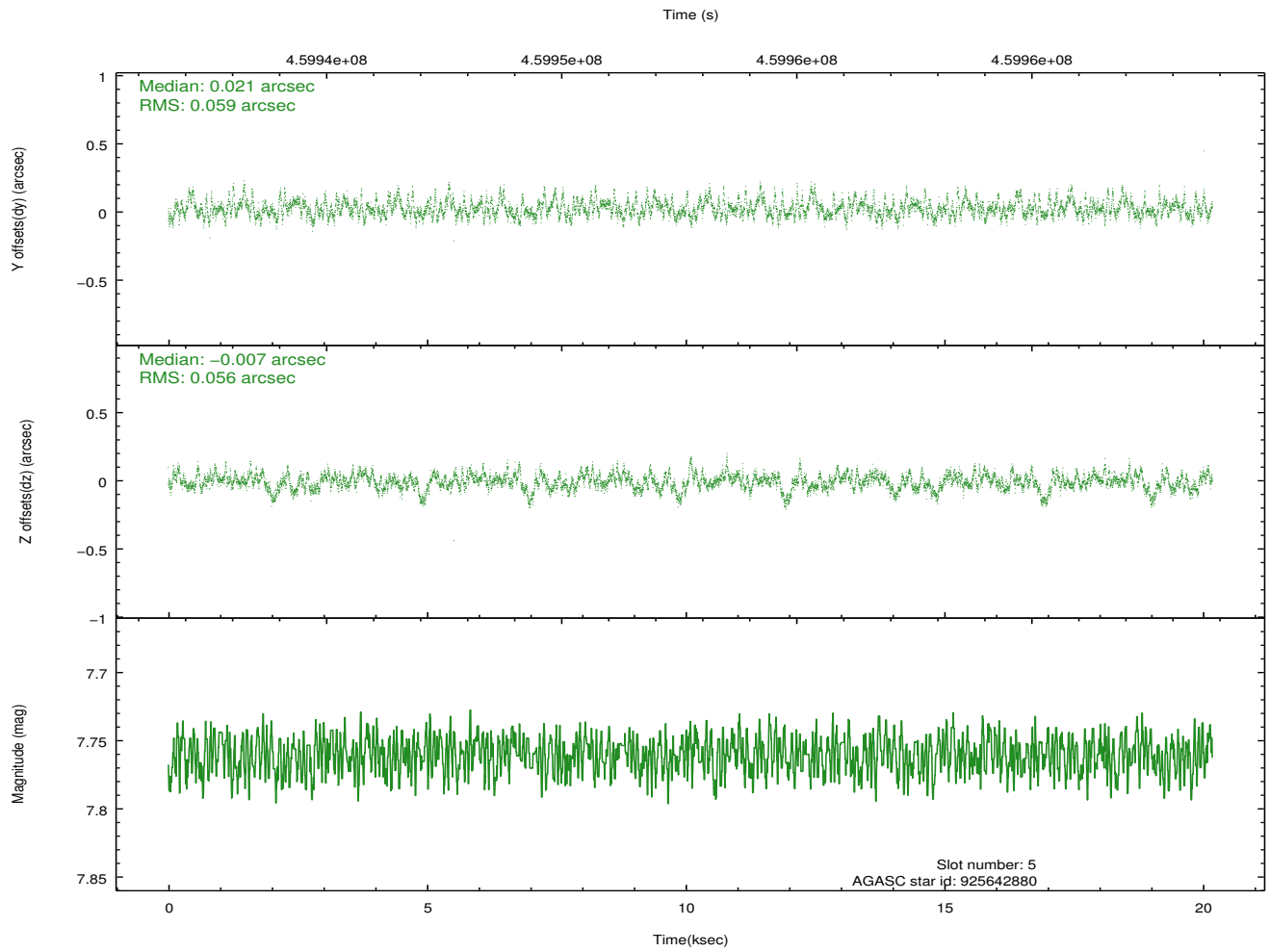
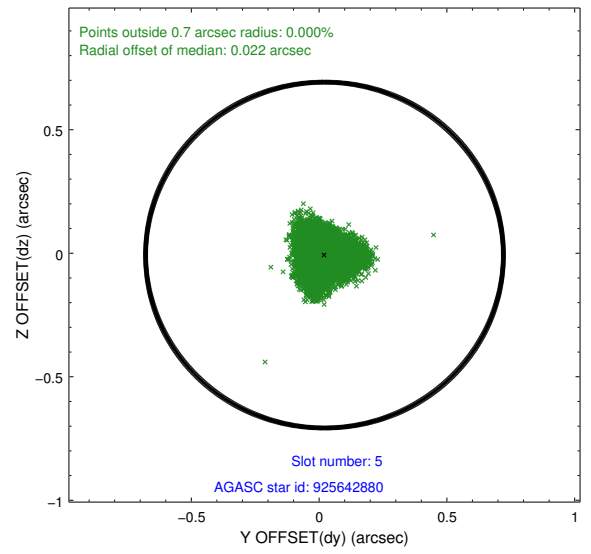
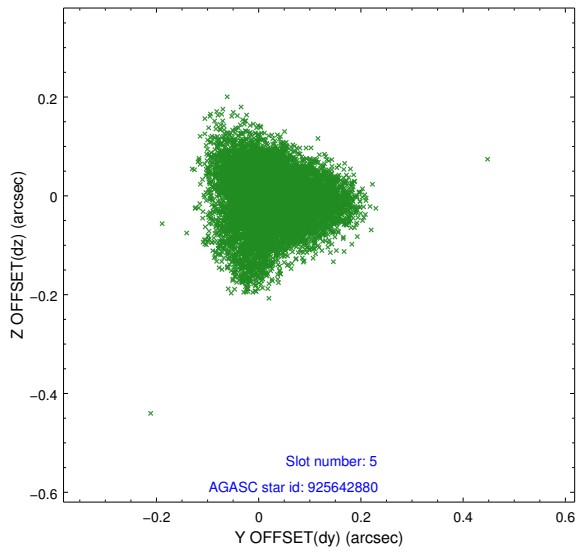
2.4.1 Slot 3



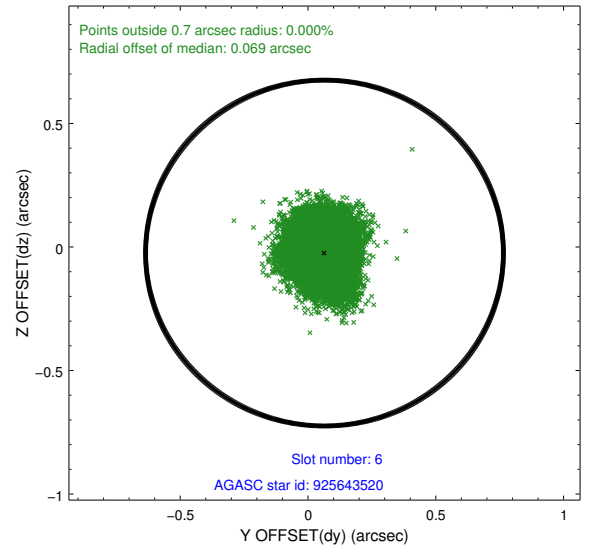
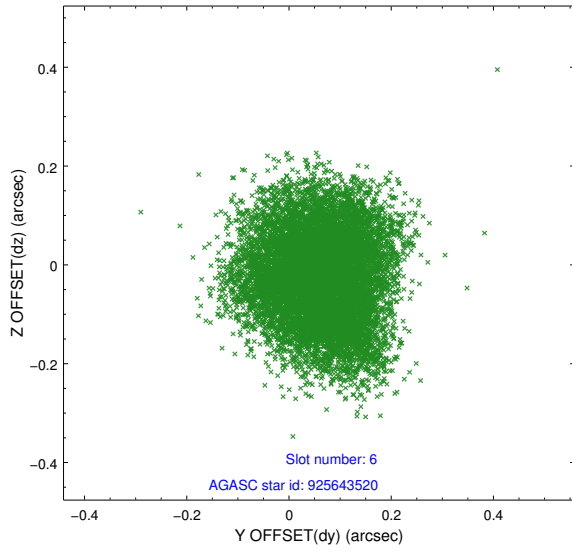
2.4.2 Slot 4



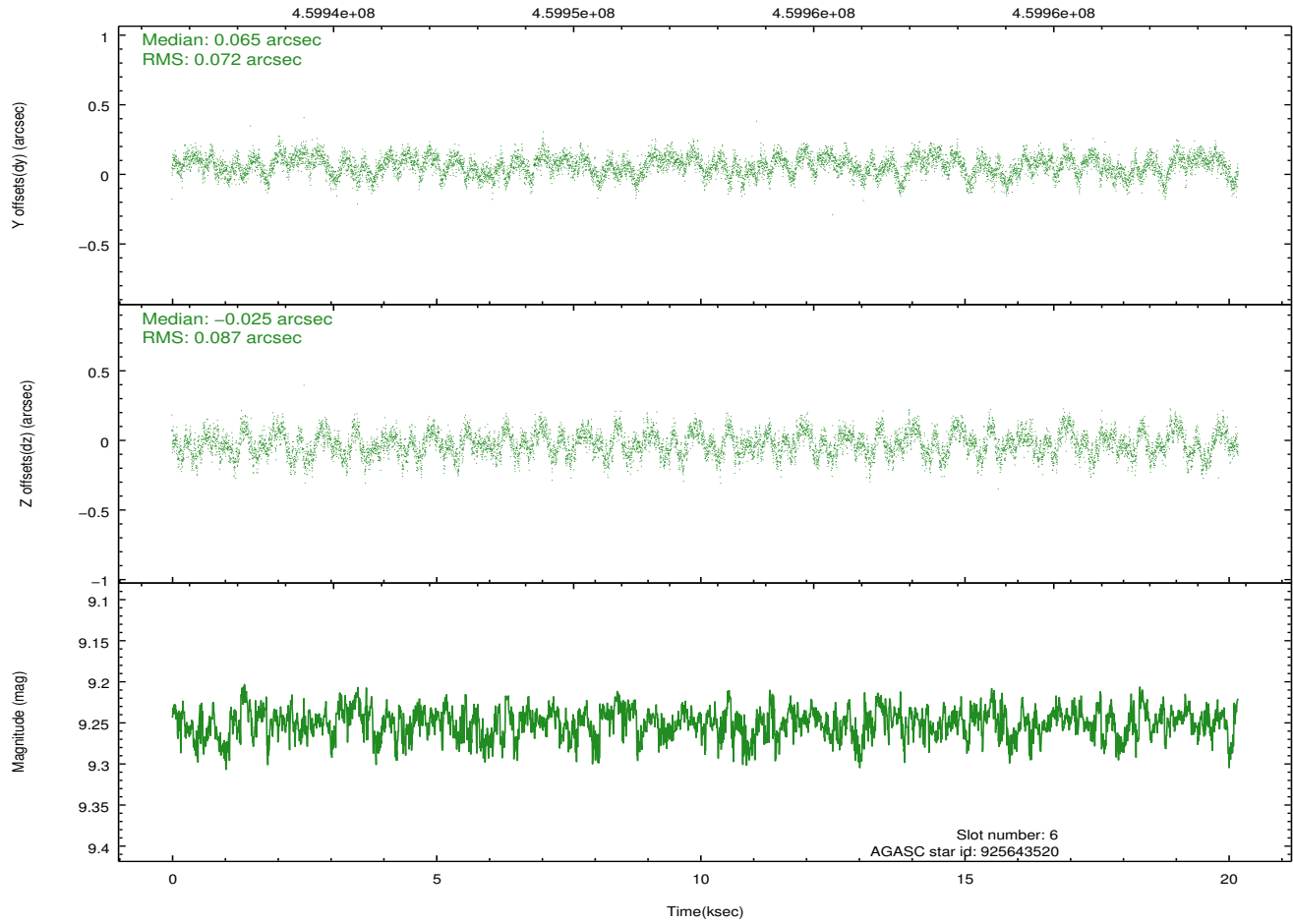
2.4.3 Slot 5



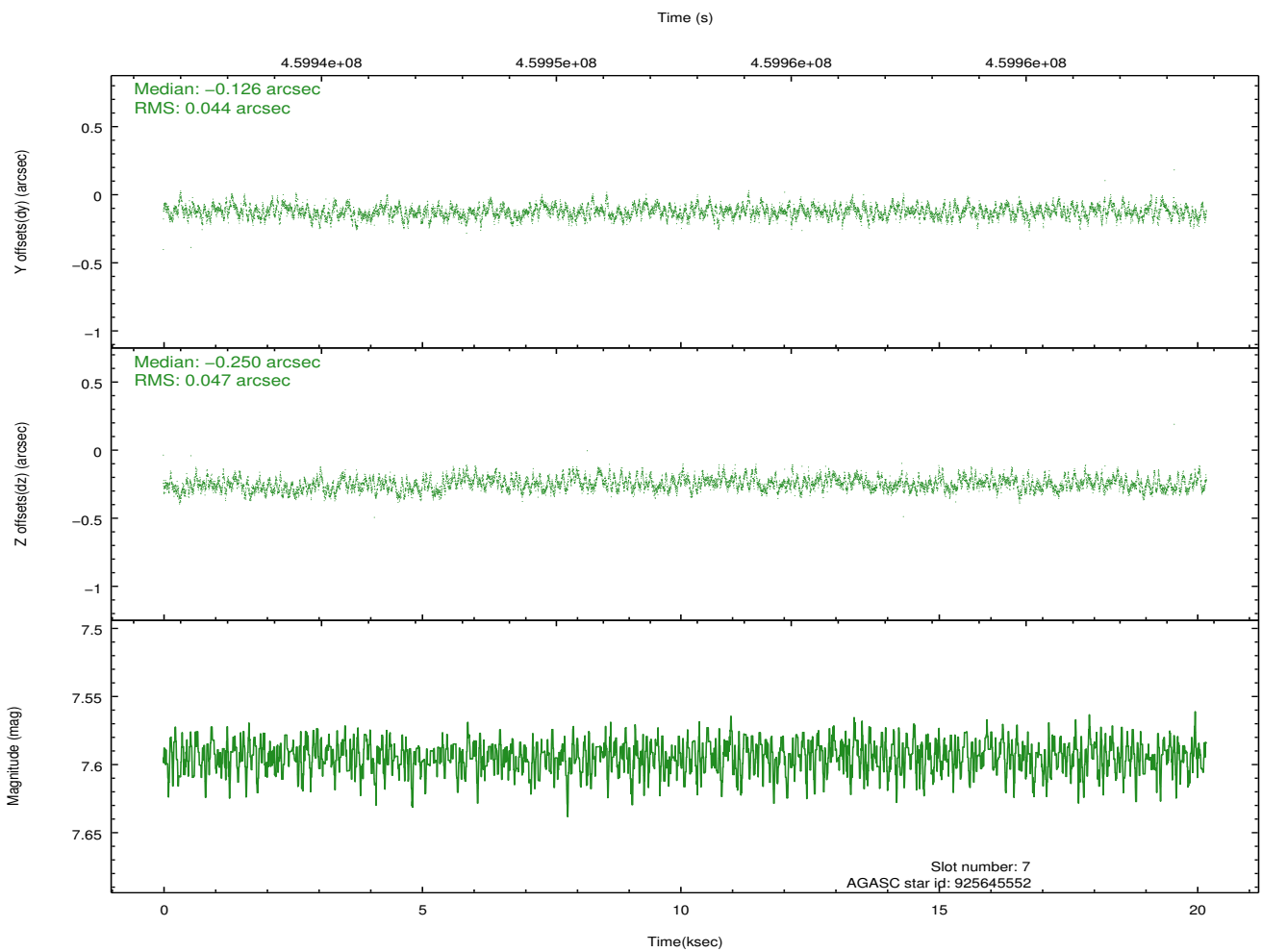
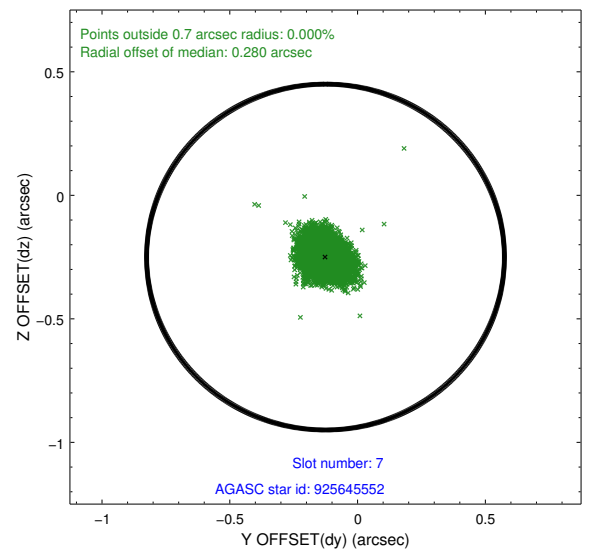
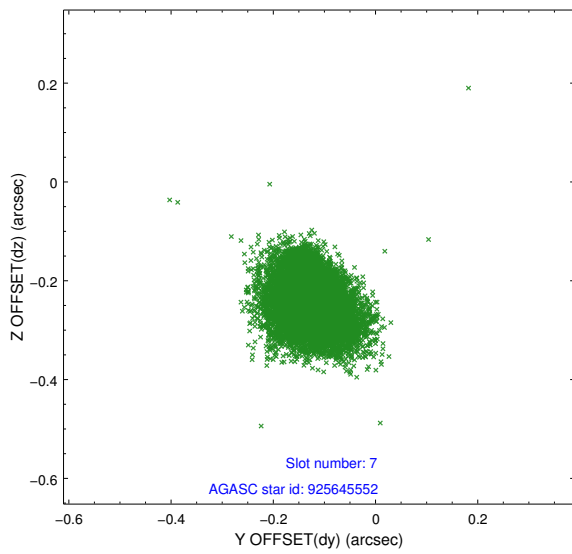
2.4.4 Slot 6



Time (s)

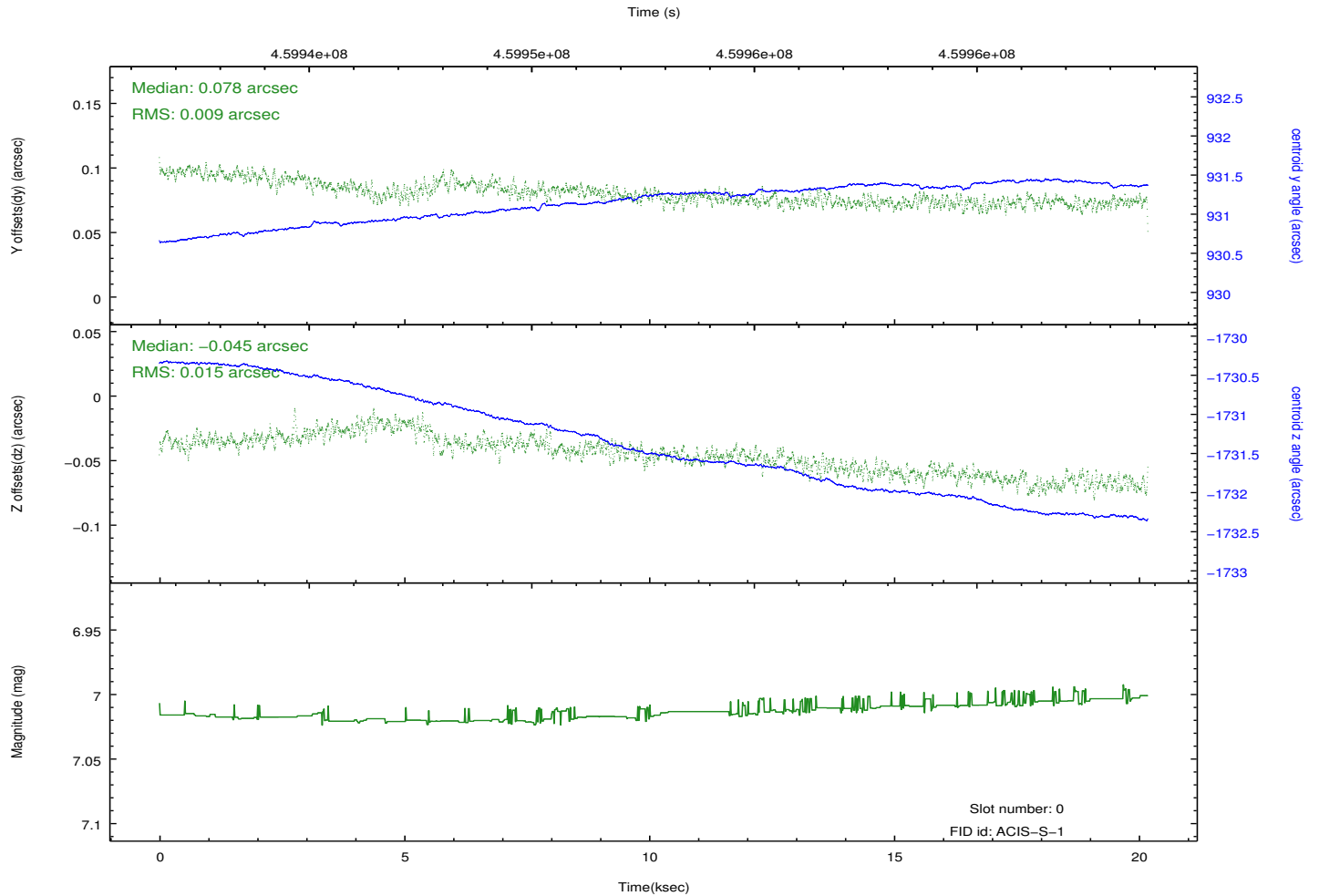
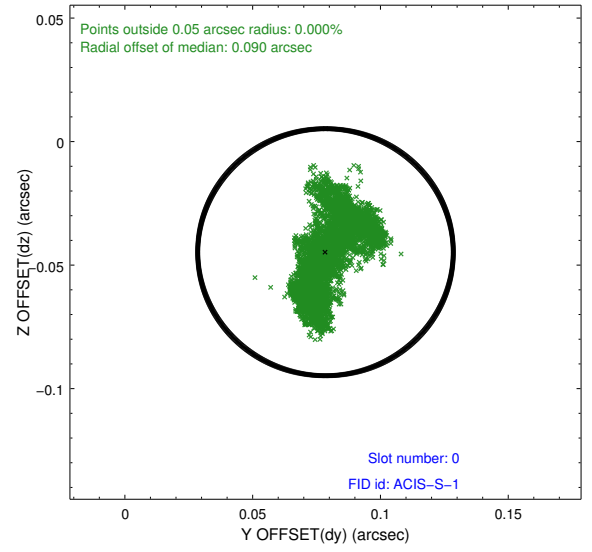
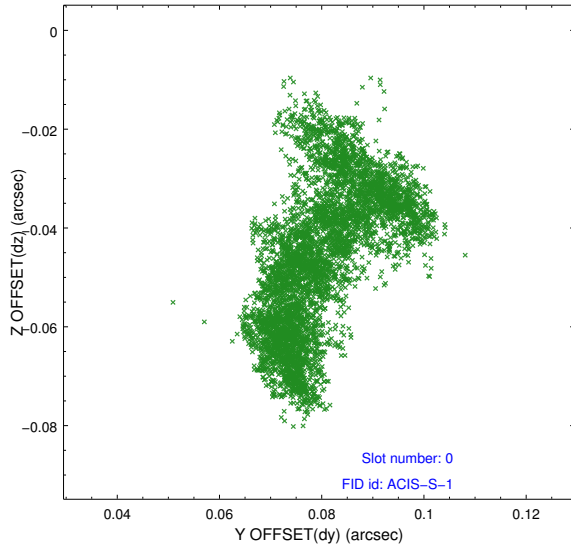


2.4.5 Slot 7

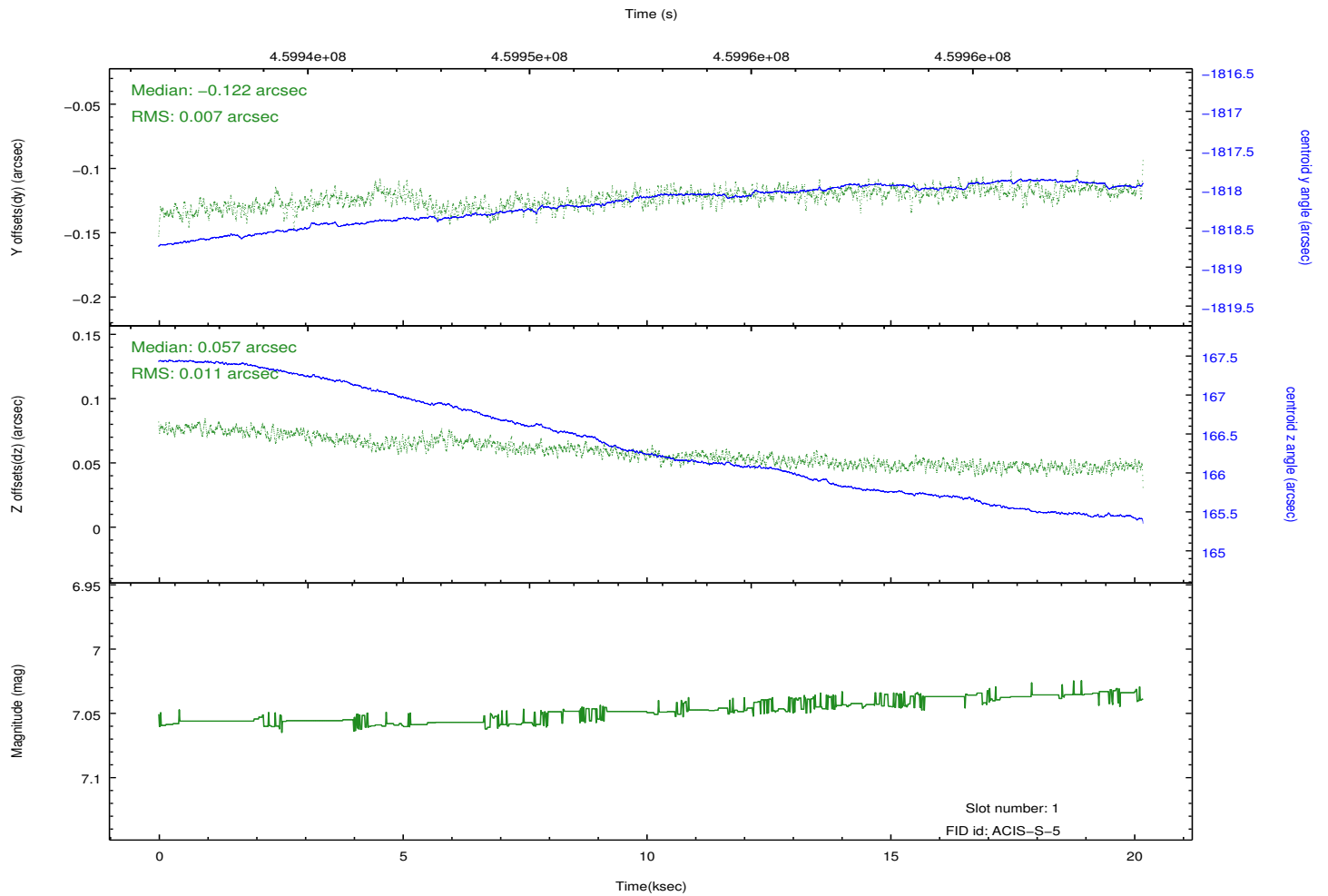
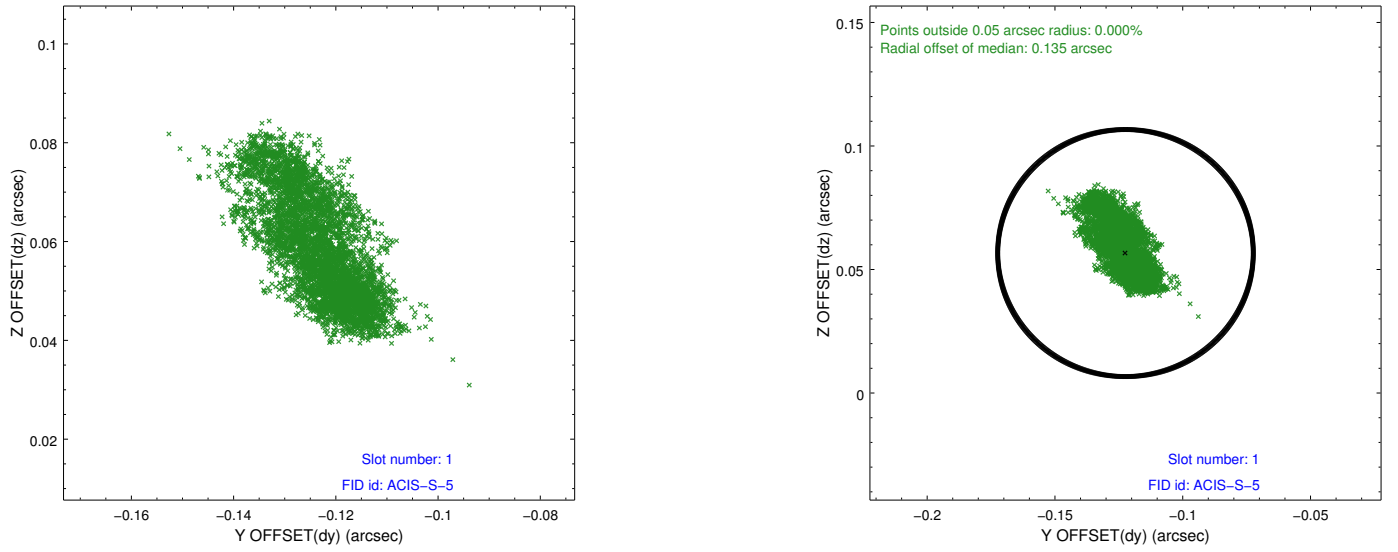


2.5 FID Slots

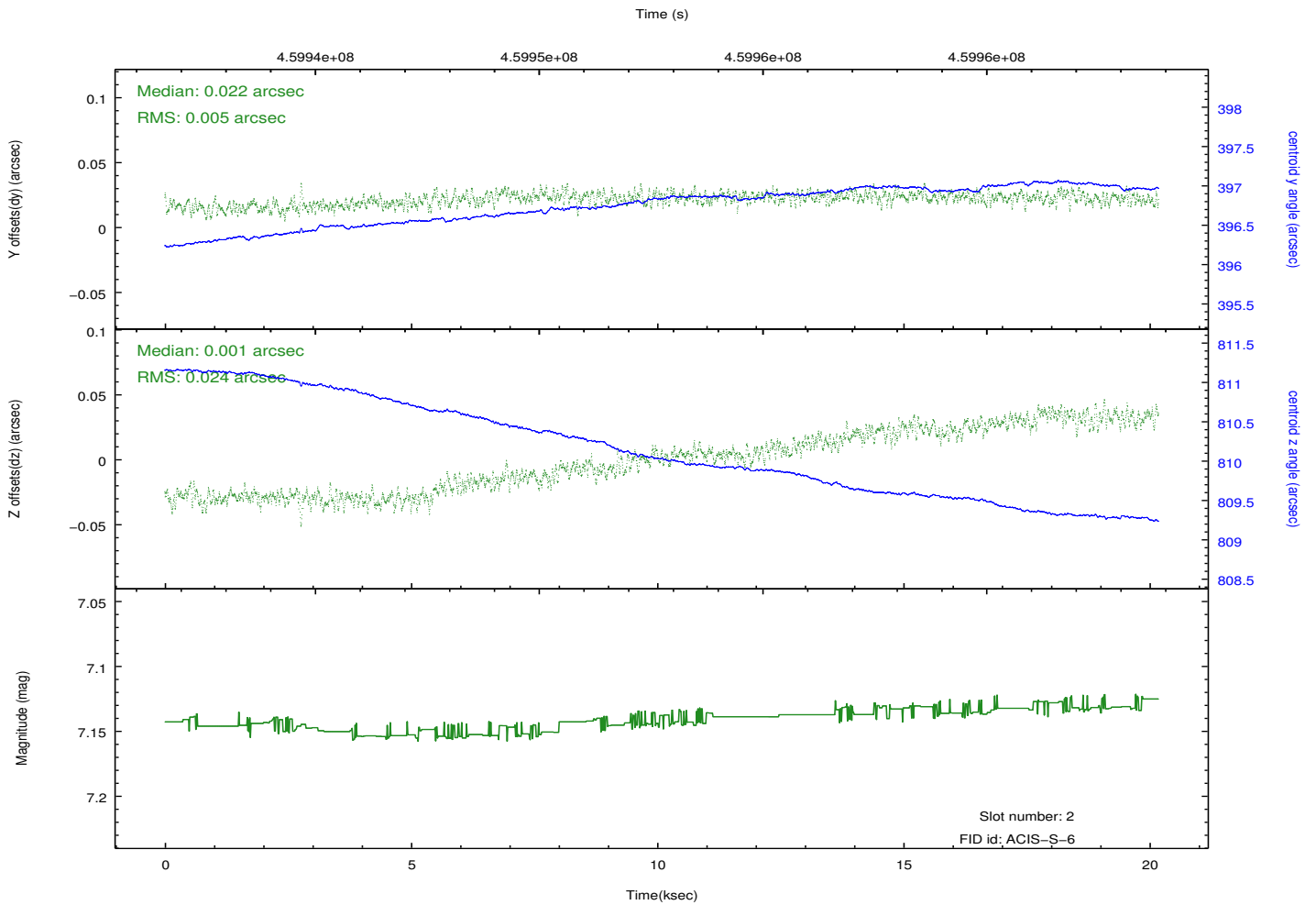
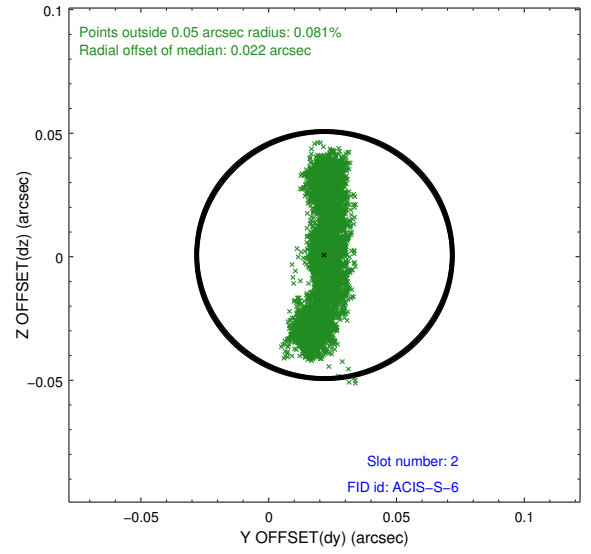
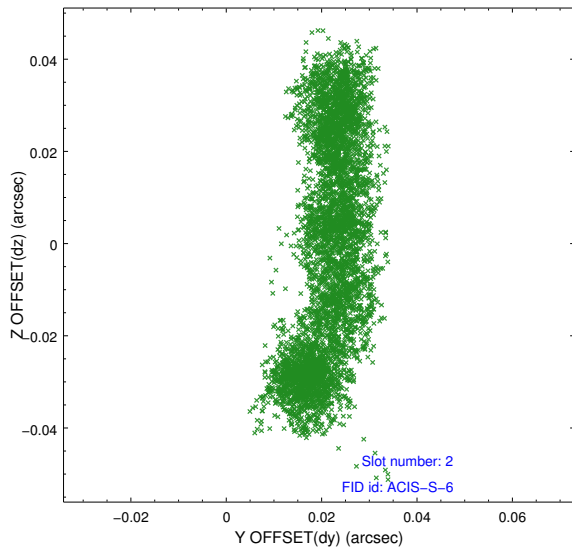
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.07.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.068685772896

A.2 Comments

Live time is low by about 10%, due to the subarray chosen that has exposure times of 0.4 s with a detector read time of 0.7 s.