

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9845 - L2 Version 2
Chandra X-Ray Center

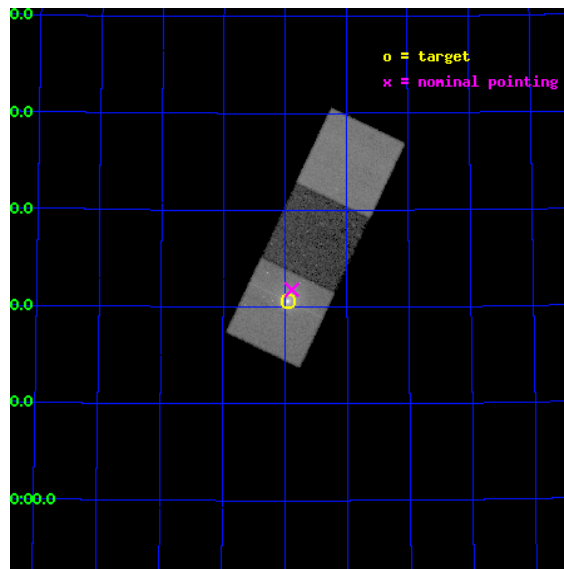
L2 Processing Date : May 12 2012

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1 Front

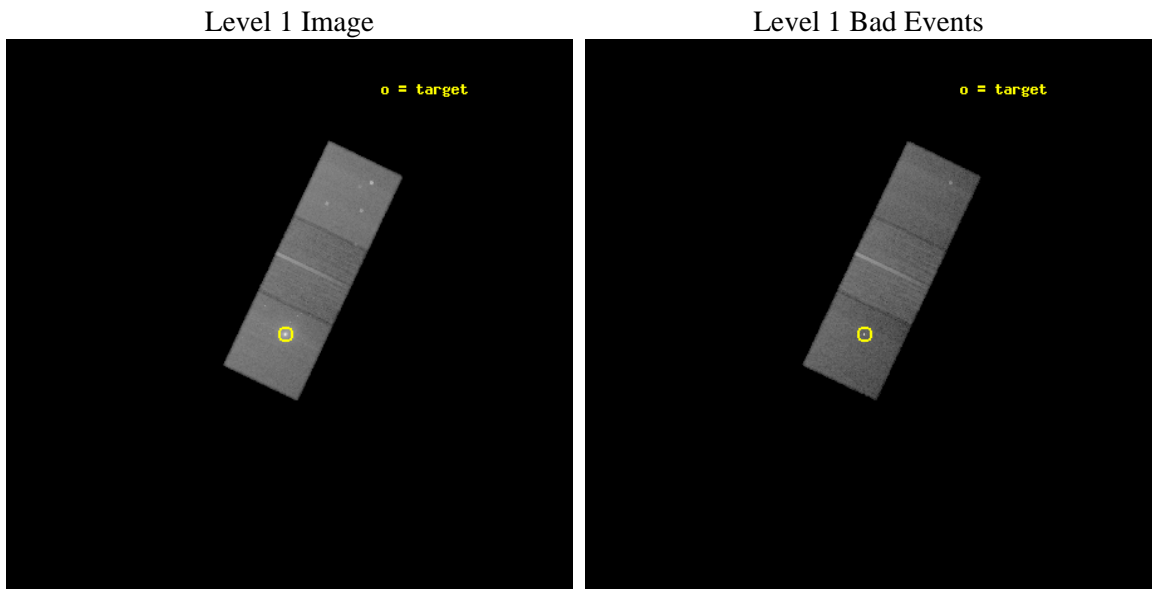
seq_num	800735	Sequence number
obs_id	9845	Observation id
title	The X-ray Luminous Cluster underlying the Radio-Quiet Quasar H1821+643	Proposal title
observer	Professor Andrew Fabian	Principal investigator
object	H1821+643	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	275.489167	Observer's specified target RA [deg]
dec_targ	64.343611	Observer's specified target Dec [deg]
ra_nom	275.47208865265	Nominal RA [deg]
dec_nom	64.363097949335	Nominal Dec [deg]
roll_nom	115.37202622143	Nominal Roll [deg]
revision	2	Processing version of data
ontime	24514.265072763	Sum of GTIs [s]
livetime	24193.968152448	Livetime [s]
ontime5	24514.22403276	Sum of GTIs [s]
ontime6	24514.182992756	Sum of GTIs [s]
ontime7	24514.265072763	Sum of GTIs [s]
l2events	284231	Number of level 2 events



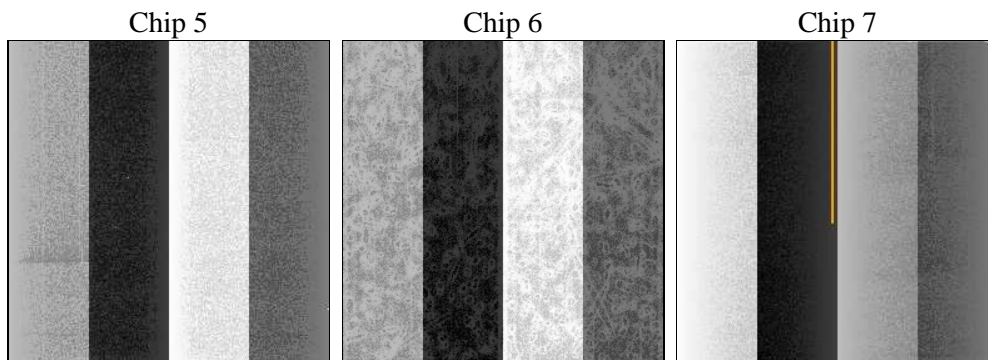
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24456.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	24514.265072763	Sum of GTIs [s]
caldsver	4.4.9	 	ontime5	24514.22403276	Sum of GTIs [s]
date	2012-05-13T00:38:58	Date and time of file creation	ontime6	24514.182992756	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	24514.265072763	Sum of GTIs [s]
			l1events	731532	Number of level 1 events

2.1.4 Events

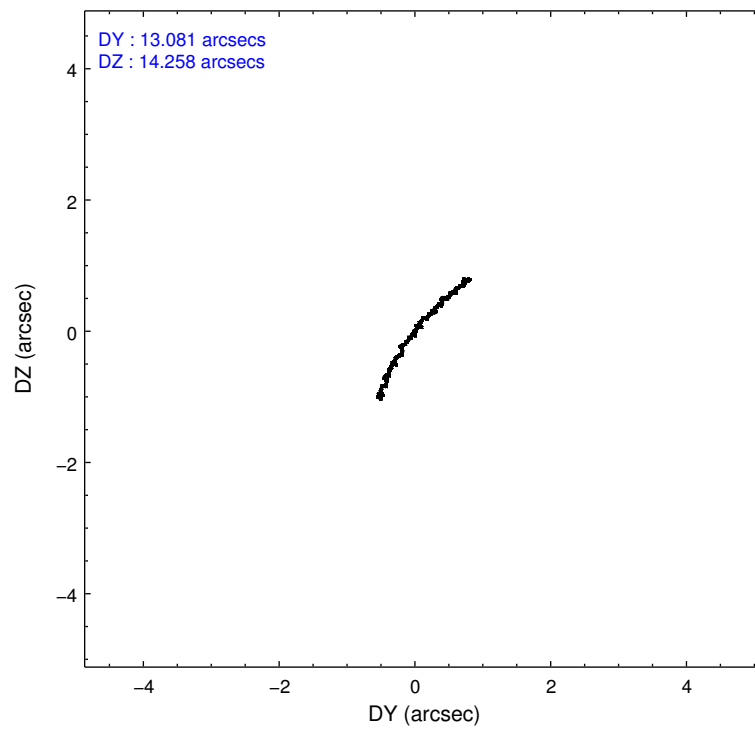
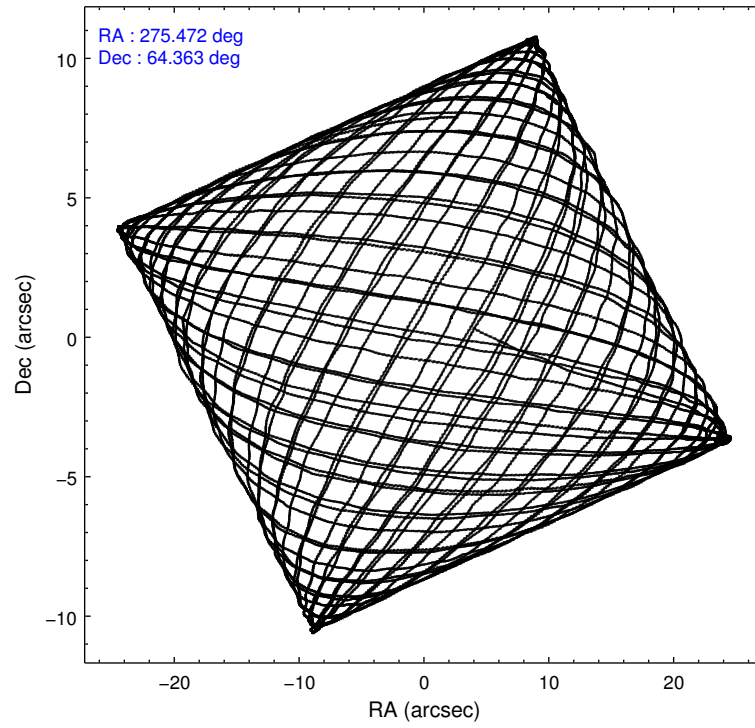
	ccd 5	ccd 6	ccd 7
level 1 events	272416	193505	265611
rejected events	135874	172289	125149
rejected %	49%	89%	47%

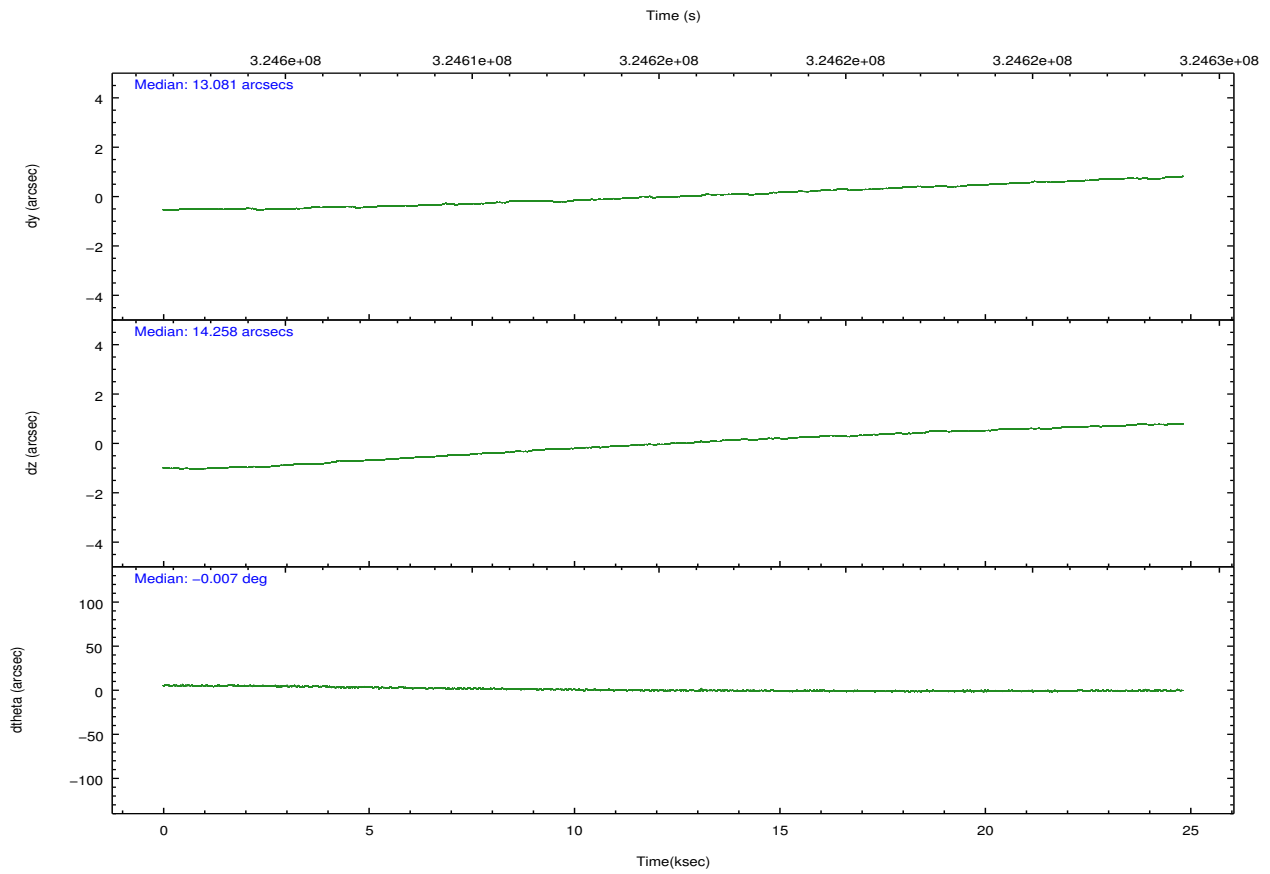
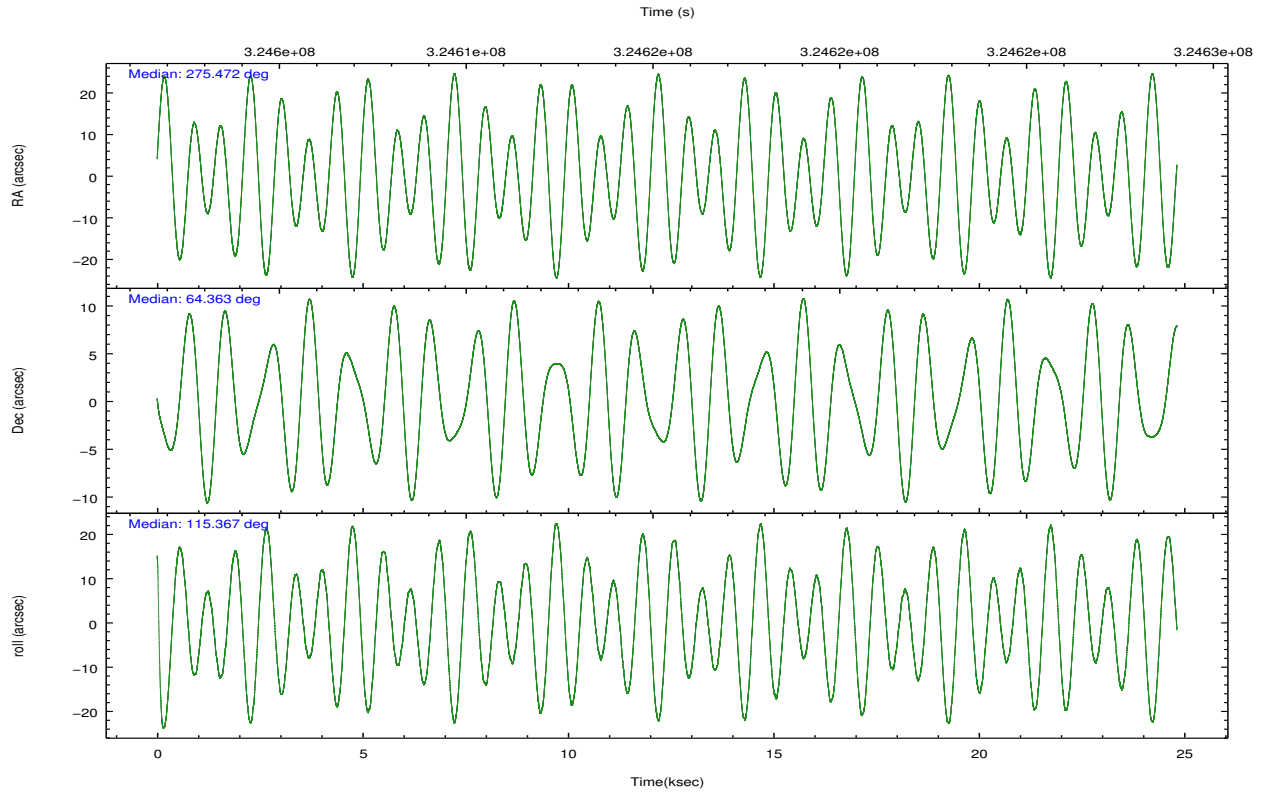
	ccd 5	ccd 6	ccd 7
grade 0 events	14036	7692	21719
	5%	3%	8%
grade 1 events	1112	92	494
	0%	0%	0%
grade 2 events	40574	4659	30477
	14%	2%	11%
grade 3 events	5844	2256	13843
	2%	1%	5%
grade 4 events	5583	2191	13648
	2%	1%	5%
grade 5 events	21266	7844	24278
	7%	4%	9%
grade 6 events	70524	4418	60791
	25%	2%	22%
grade 7 events	113477	164353	100361
	41%	84%	37%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-567	ACIS-567	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	275.524529	275.4720886526519	Subarray requested	NONE	NONE
[deg] Pointing Dec	64.347863	64.36309794933527	Alternating exposures requested	N	N
[deg] Pointing Roll	115.168123	115.3720262214333	[s] Primary exposure time	0.000000	3.1
[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)	324603329.184000	324602427.46832			
Observation start date	2008-04-14T23:34:24	2008-04-14T23:20:27			
[s] Observation end time (MET)	324627785.184000	324628932.43211			
Observation end date	2008-04-15T06:22:00	2008-04-15T06:42:12			
Read mode	TIMED	TIMED			

2.3 Aspect



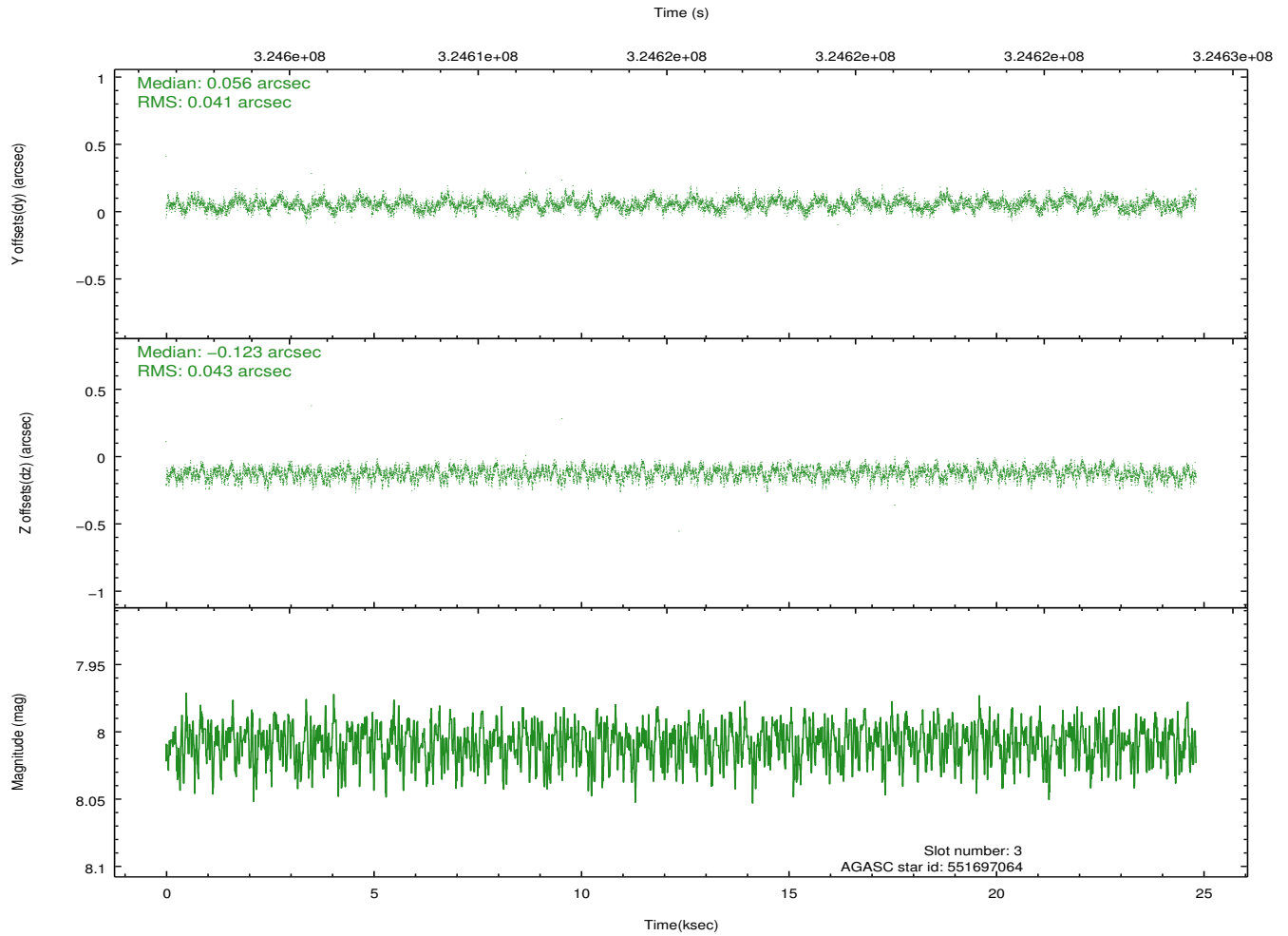
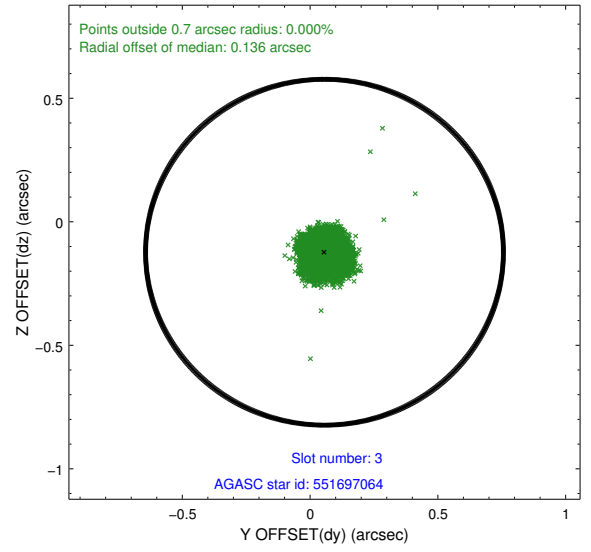
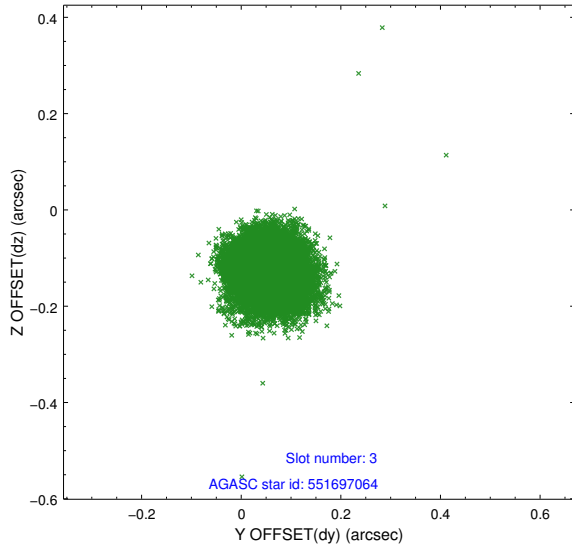


Slot Statistics

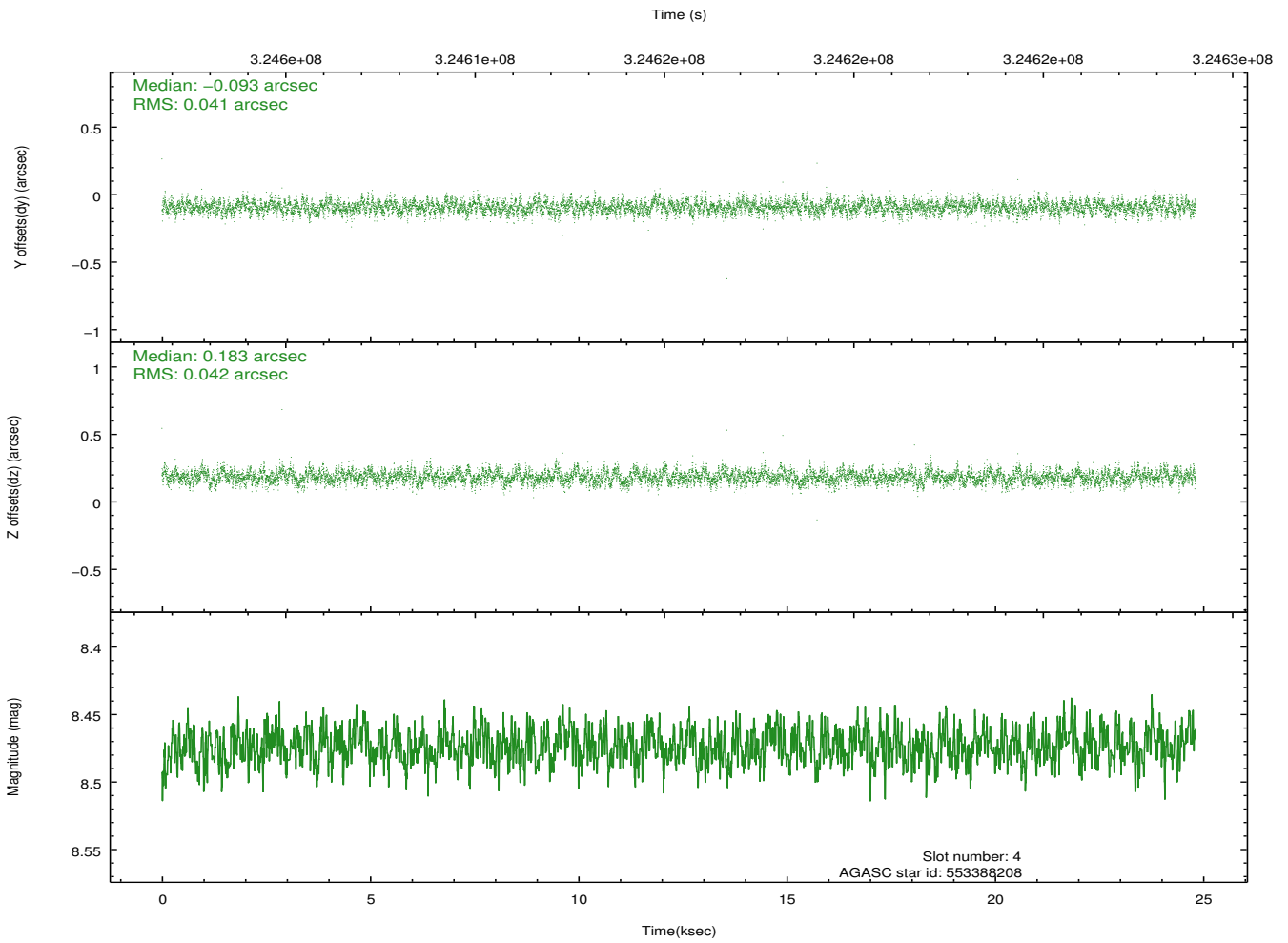
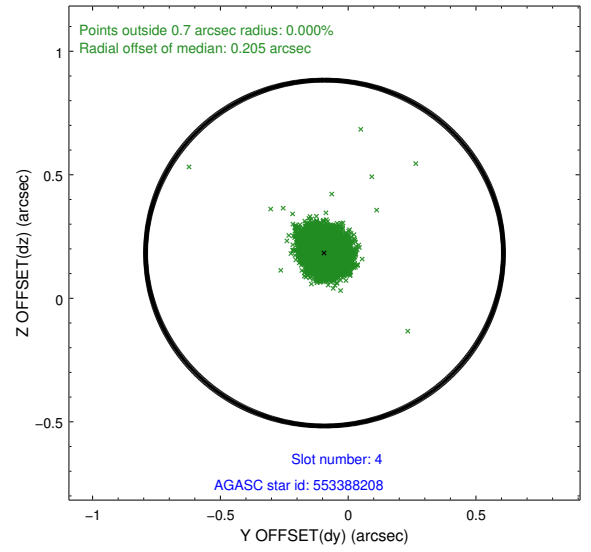
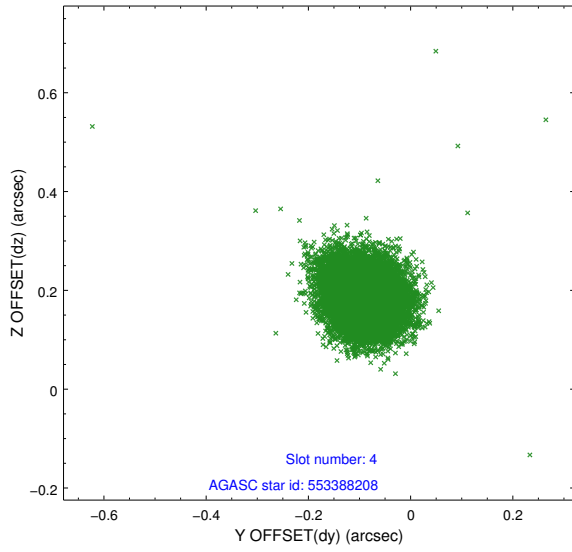
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.99	6054	0.104	-0.038	0.009	0.014	0.000000	0.000000	930.13	-1731.15
1	FID	ACIS-S-2	6.90	6053	-0.054	-0.011	0.010	0.017	0.000000	0.000000	-765.86	-1735.83
2	FID	ACIS-S-5	7.01	6054	-0.074	0.056	0.009	0.015	0.000000	0.000000	-1819.28	166.33
3	GUIDE	551697064	8.01	12102	0.056	-0.123	0.063	0.098	274.138245	64.538359	1554.50	1640.28
4	GUIDE	553388208	8.47	12107	-0.093	0.183	0.061	0.099	276.332157	64.911426	1319.63	-1981.54
5	GUIDE	553402720	7.31	12108	0.006	-0.170	0.064	0.102	275.081751	64.202988	-174.47	848.41
6	GUIDE	553404184	8.64	12106	0.112	-0.044	0.058	0.094	276.556964	64.060570	-1614.99	-1037.14
7	GUIDE	553396016	6.74	12107	-0.090	0.154	0.057	0.095	276.292154	64.838422	1105.97	-1817.22

2.4 Star Slots

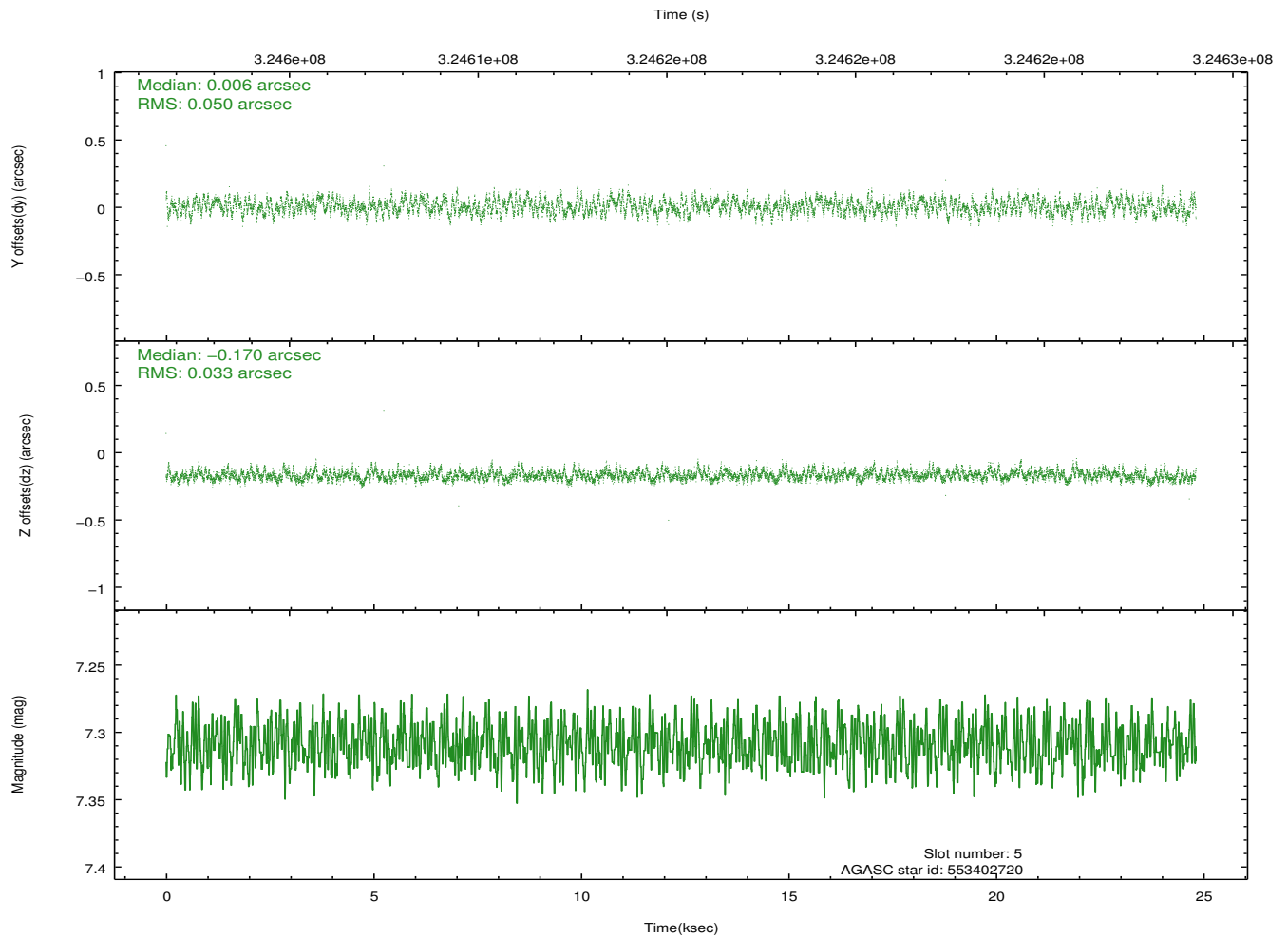
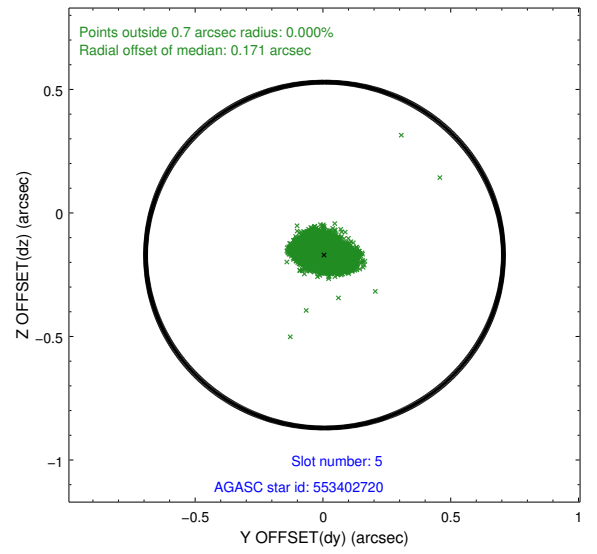
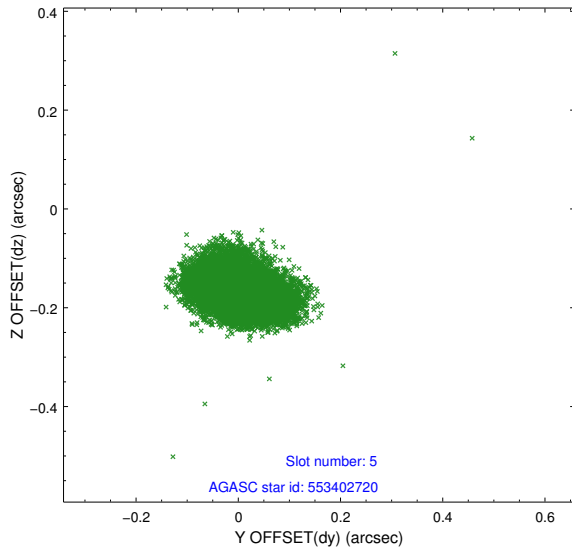
2.4.1 Slot 3



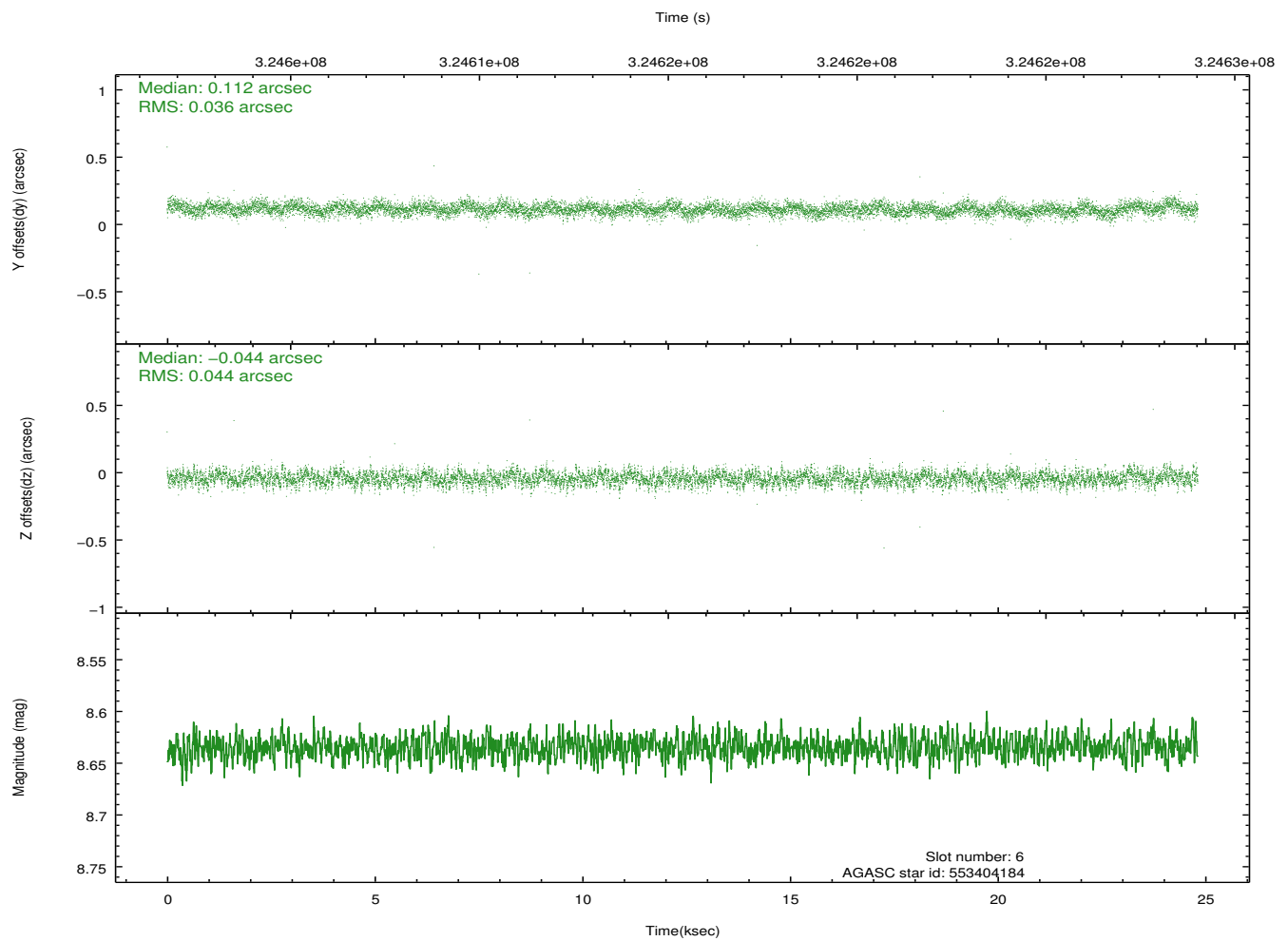
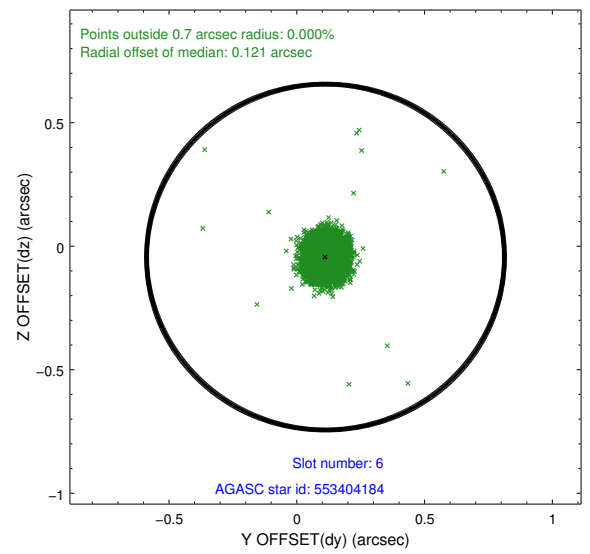
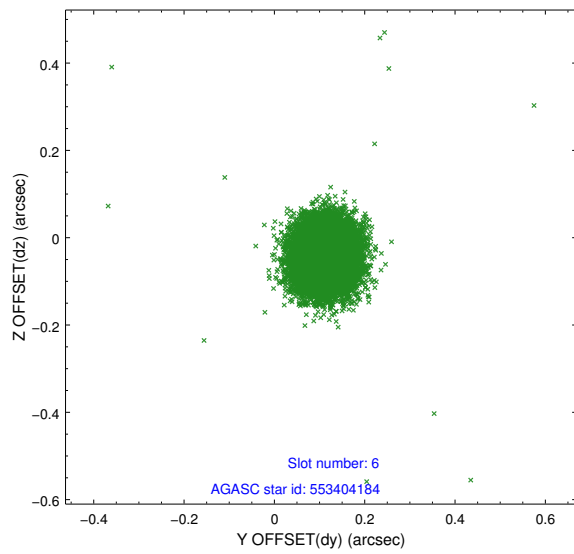
2.4.2 Slot 4



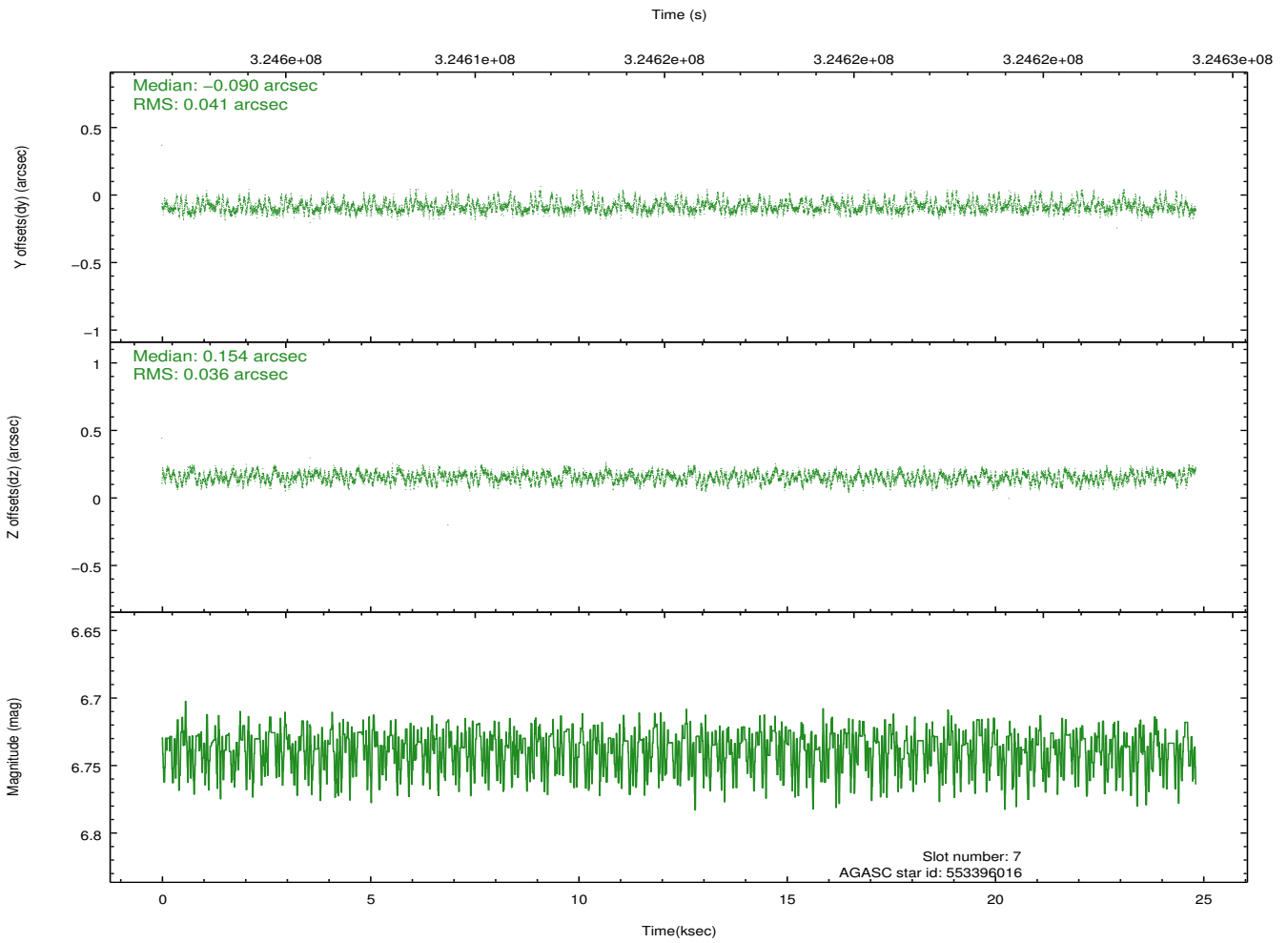
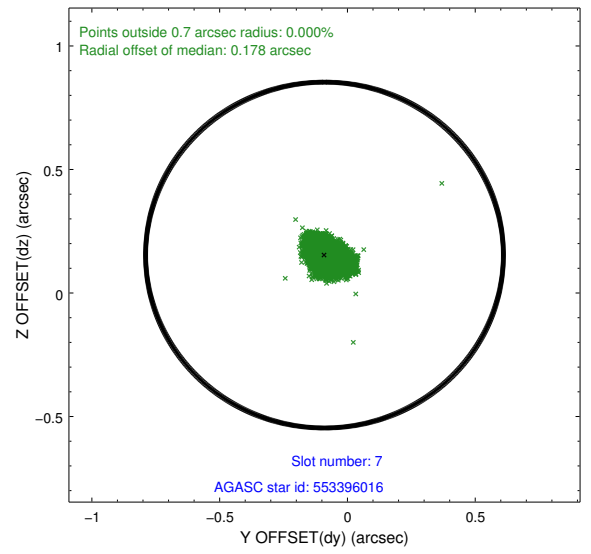
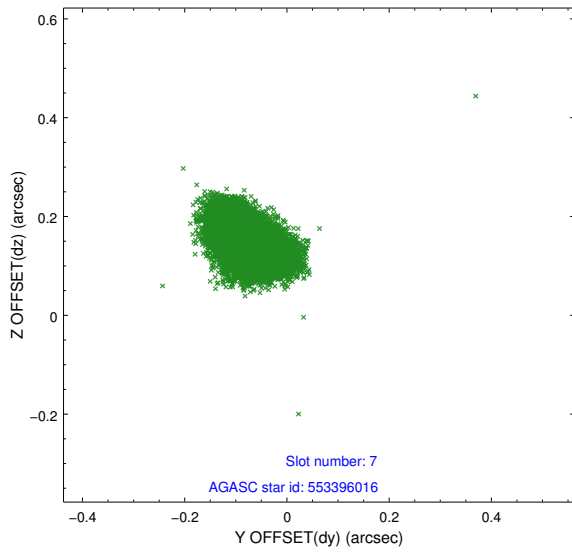
2.4.3 Slot 5



2.4.4 Slot 6

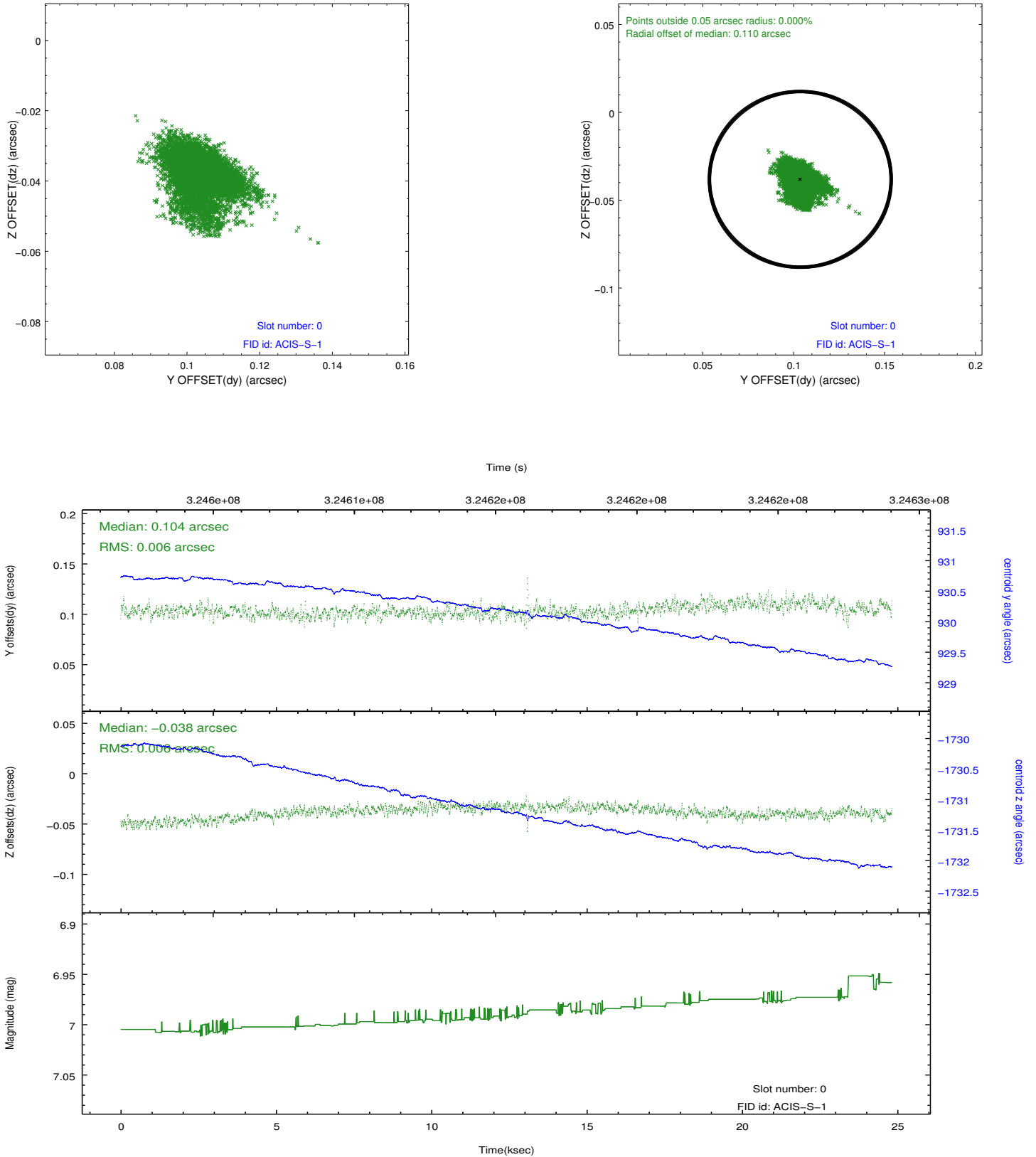


2.4.5 Slot 7

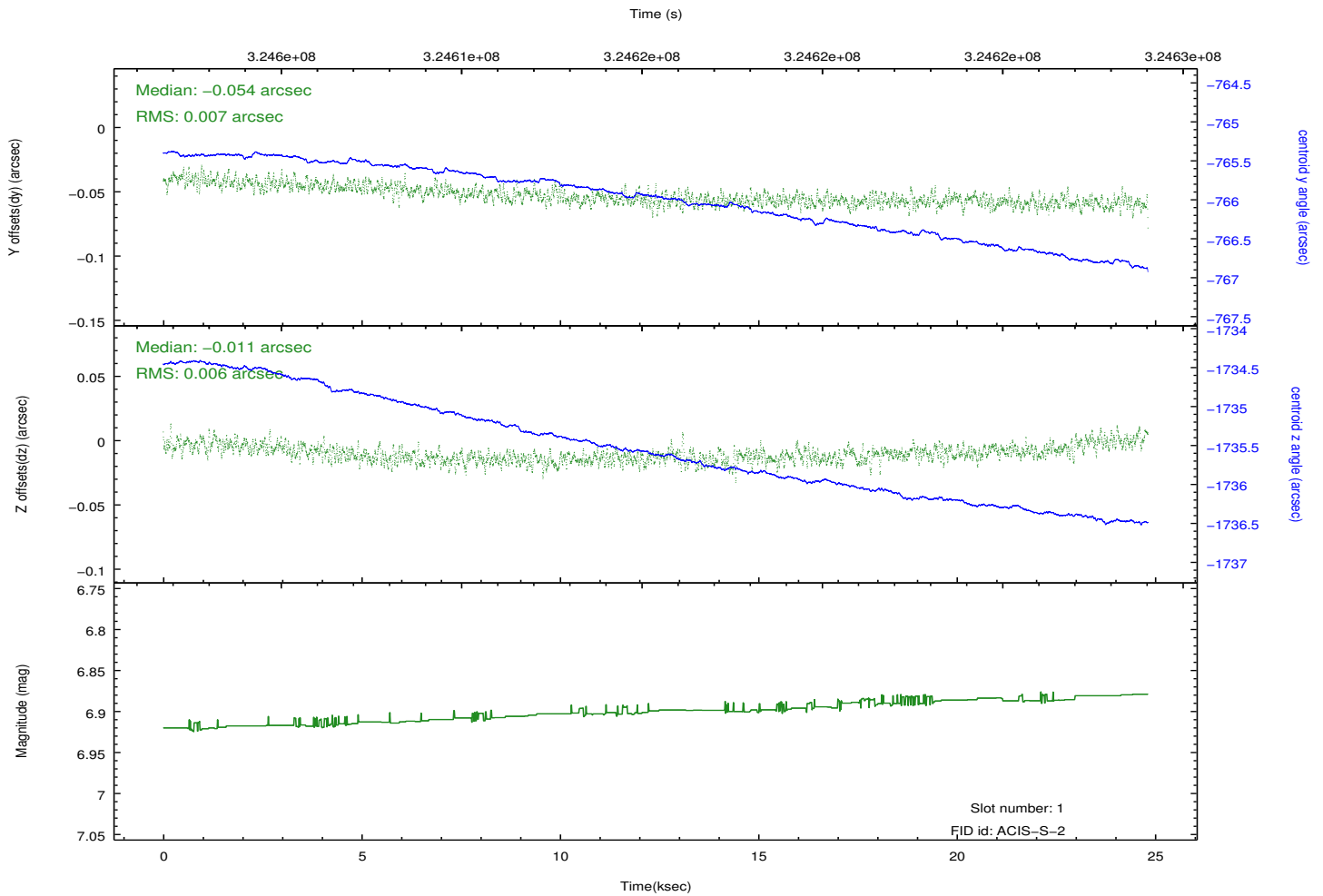
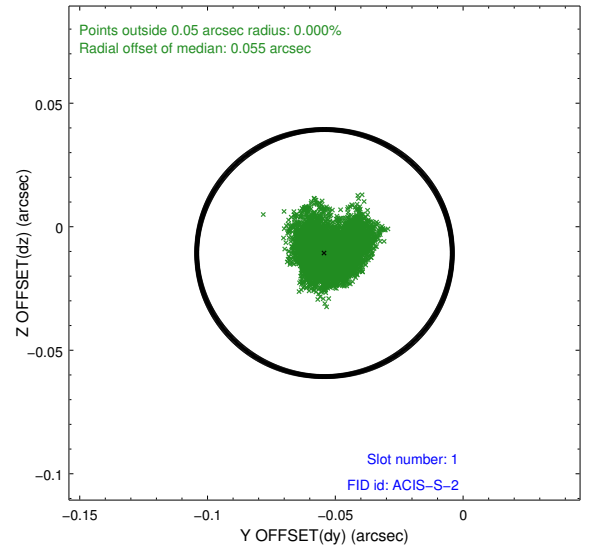
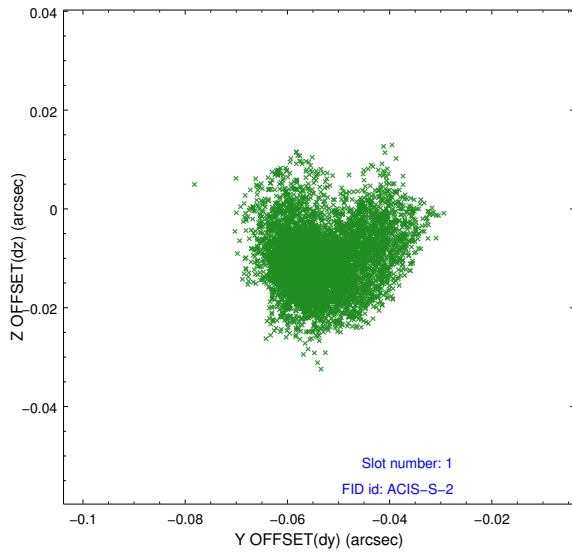


2.5 FID Slots

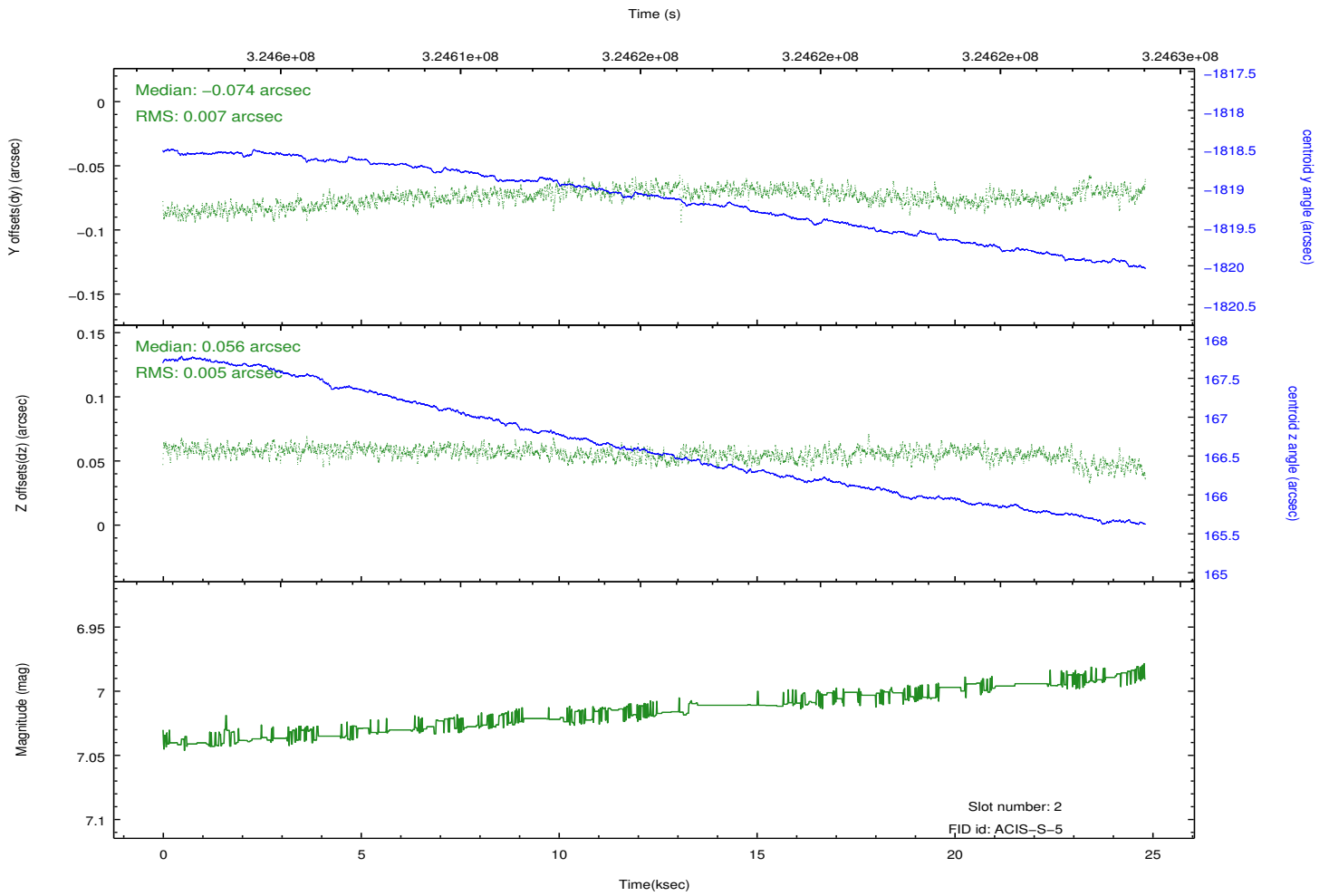
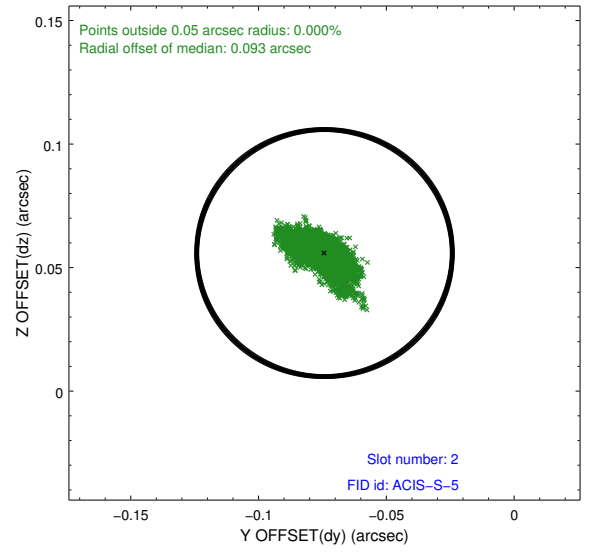
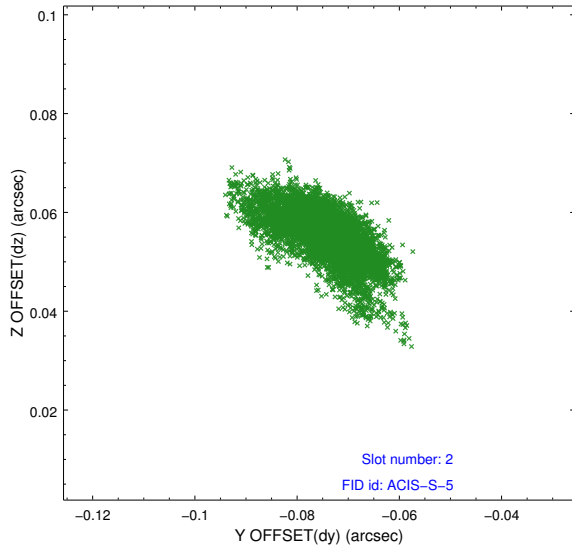
2.5.1 Slot 0



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)	2012.05.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.5148001

A.2 Comments