

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 15597 - L2 Version 2
Chandra X-Ray Center

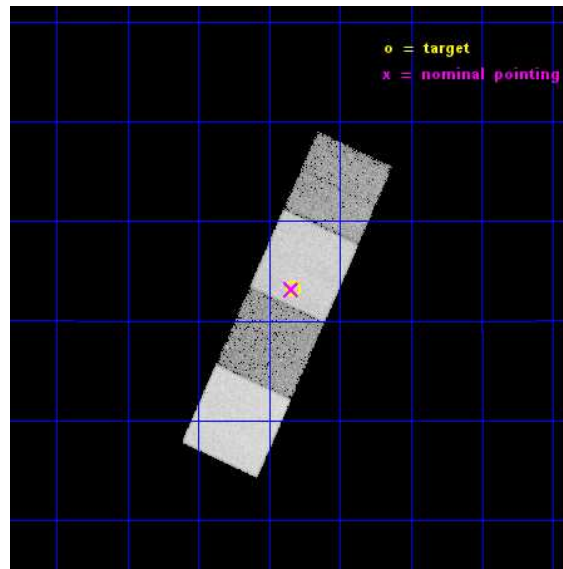
L2 Processing Date : Nov 29 2014

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1 Front

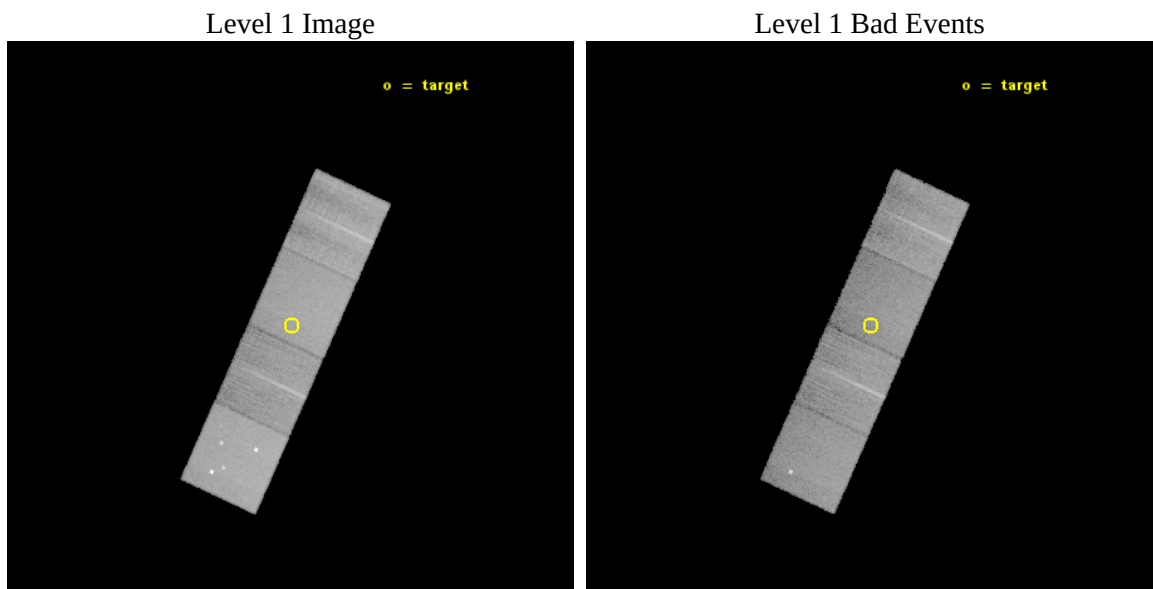
seq_num	200910	Sequence number
obs_id	15597	Observation id
title	Observation of a possible 'orphan' GRB afterglow	Proposal title
observer	Giacomo Vianello	Principal investigator
object	MLS121106:014420+082311	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	26.082917	Observer's specified target RA [deg]
dec_targ	8.386444	Observer's specified target Dec [deg]
ra_nom	26.085935083916	Nominal RA [deg]
dec_nom	8.3860050365743	Nominal Dec [deg]
roll_nom	294.42381277619	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25074.439935327	Sum of GTIs [s]
livetime	24746.823918037	Livetime [s]
ontime5	25074.398895323	Sum of GTIs [s]
ontime6	25074.35785532	Sum of GTIs [s]
ontime7	25074.439935327	Sum of GTIs [s]
ontime8	25074.316815317	Sum of GTIs [s]
l2events	206315	Number of level 2 events



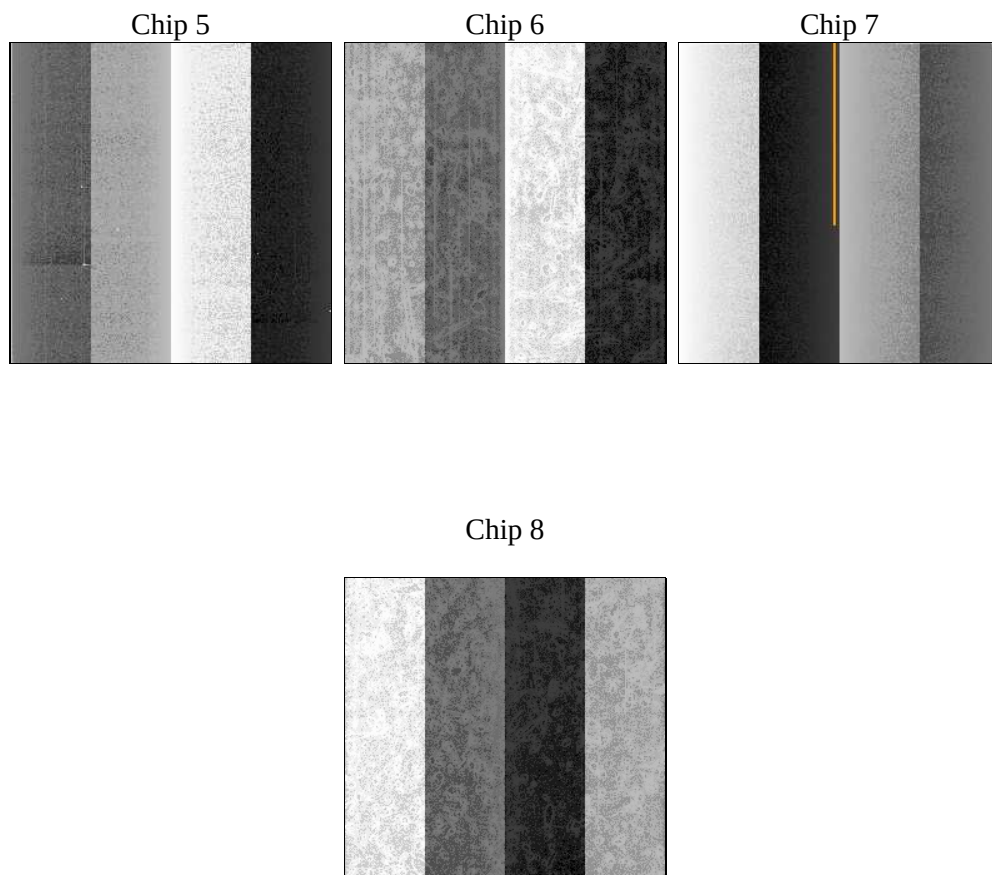
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	25074.439935327	Sum of GTIs [s]
caldsver	4.6.4	 	ontime5	25074.398895323	Sum of GTIs [s]
date	2014-11-29T20:37:27	Date and time of file creation	ontime6	25074.35785532	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	25074.439935327	Sum of GTIs [s]
			ontime8	25074.316815317	Sum of GTIs [s]
			l1events	711830	Number of level 1 events

2.1.4 Events

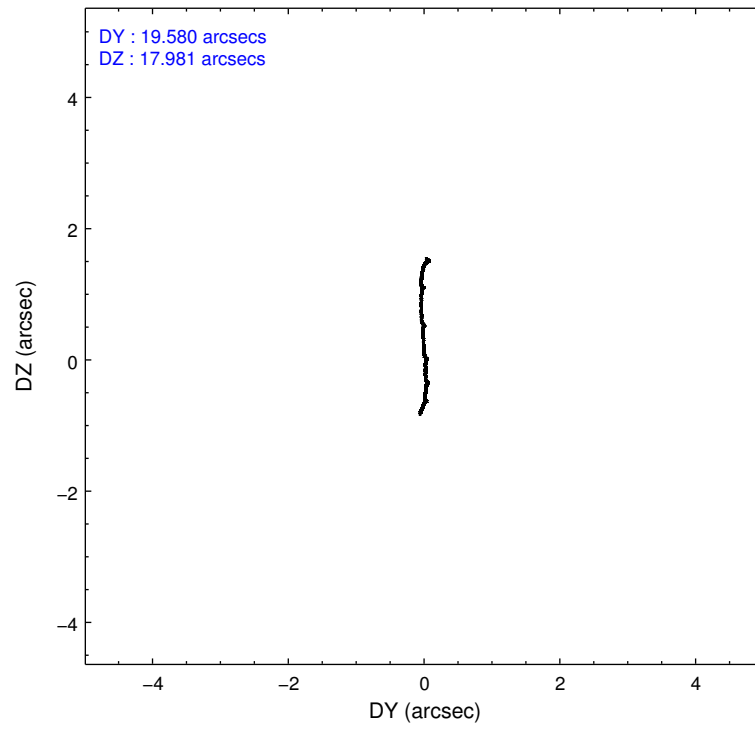
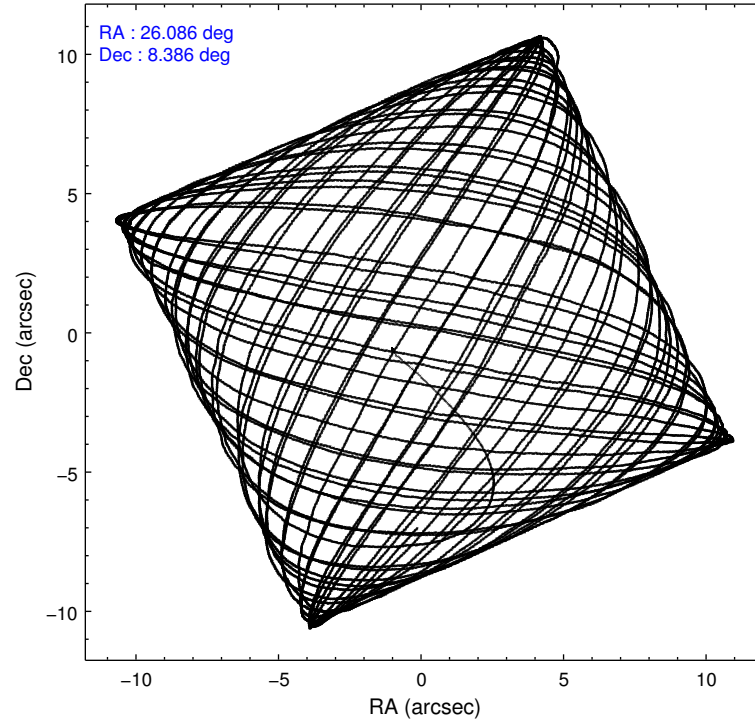
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	225307	132484	176152	177887
rejected events	112291	116379	98120	129668
rejected %	49%	87%	55%	72%

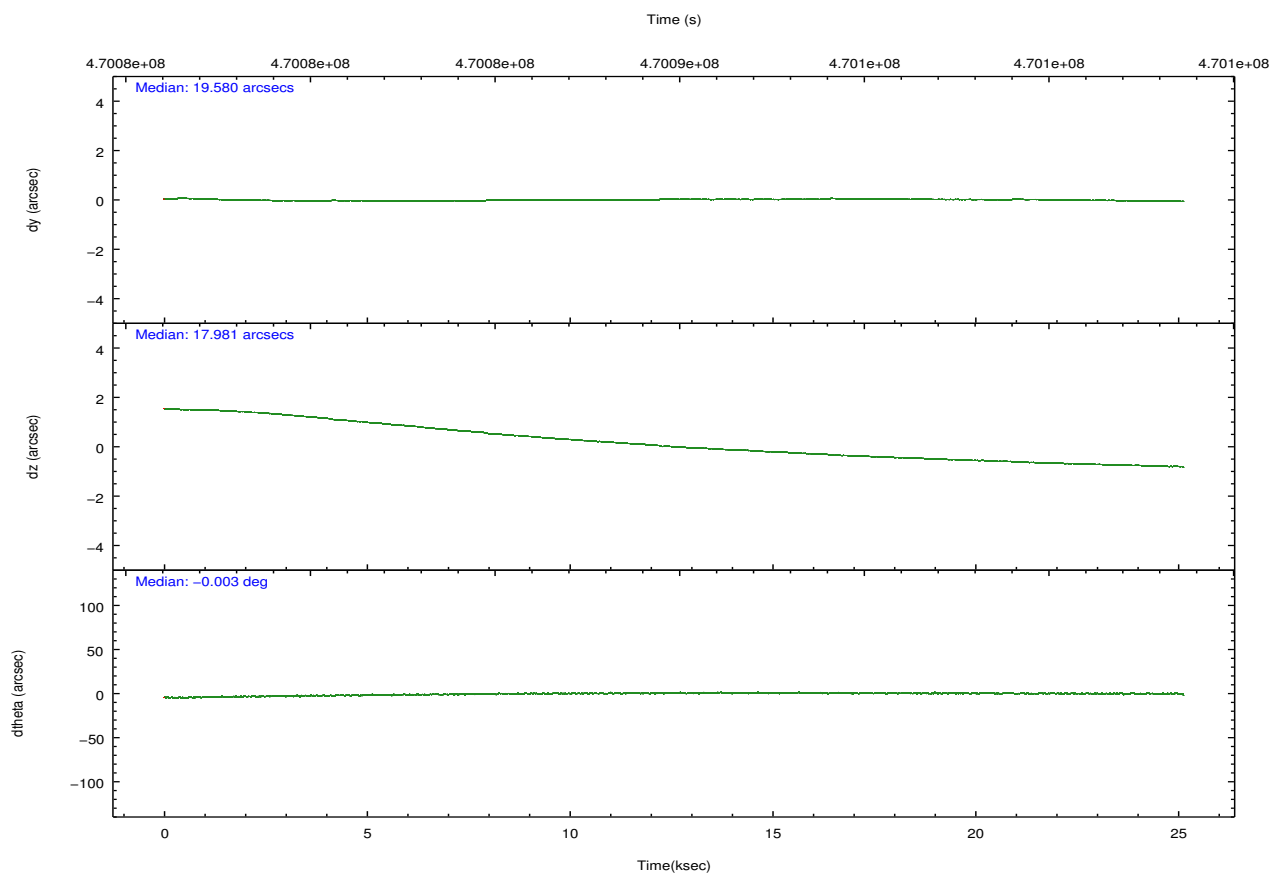
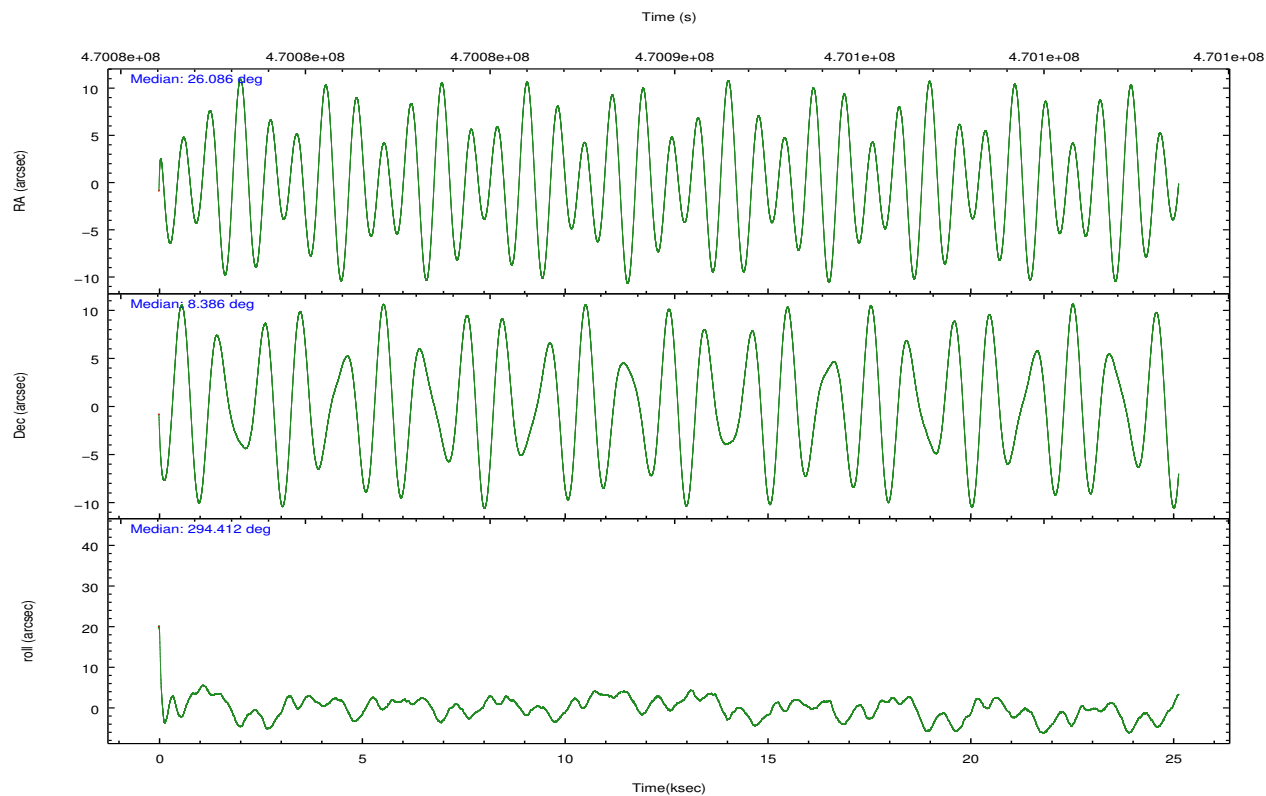
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	15358	5608	6989	14681
	6%	4%	3%	8%
grade 1 events	433	49	197	142
	0%	0%	0%	0%
grade 2 events	33914	3593	15797	11113
	15%	2%	8%	6%
grade 3 events	4079	1674	6752	5073
	1%	1%	3%	2%
grade 4 events	3689	1596	6824	4764
	1%	1%	3%	2%
grade 5 events	16993	6751	18576	9792
	7%	5%	10%	5%
grade 6 events	55985	3637	41675	12589
	24%	2%	23%	7%
grade 7 events	94856	109576	79342	119733
	42%	82%	45%	67%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	26.063251	26.08593508391618	CCD I2 on	N	N
[deg] Pointing Dec	8.401622	8.386005036574268	CCD I3 on	N	N
[deg] Pointing Roll	294.270489	294.4238127761932	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O3	Y
[s] Observation start time (MET)	470077404.184000	470076229.96312	CCD S5 on	N	N
Observation start date	2012-11-23T17:02:17	2012-11-23T16:43:49	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	470102404.184000	470102797.96455	On-chip summing requested	N	N
Observation end date	2012-11-23T23:58:57	2012-11-24T00:06:37	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



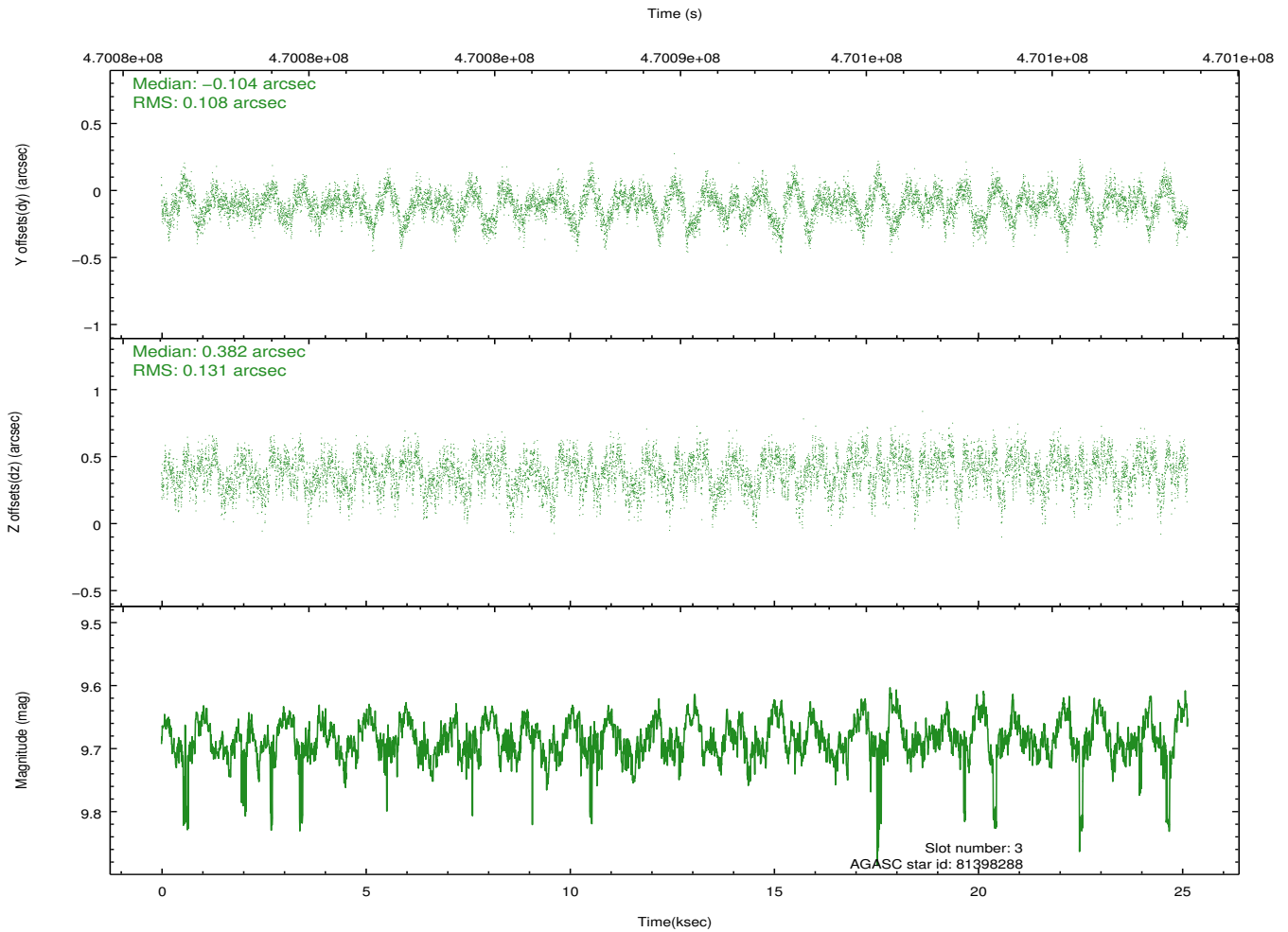
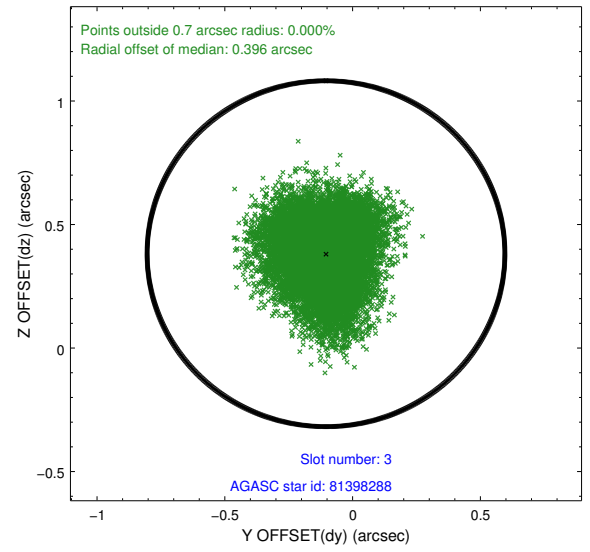
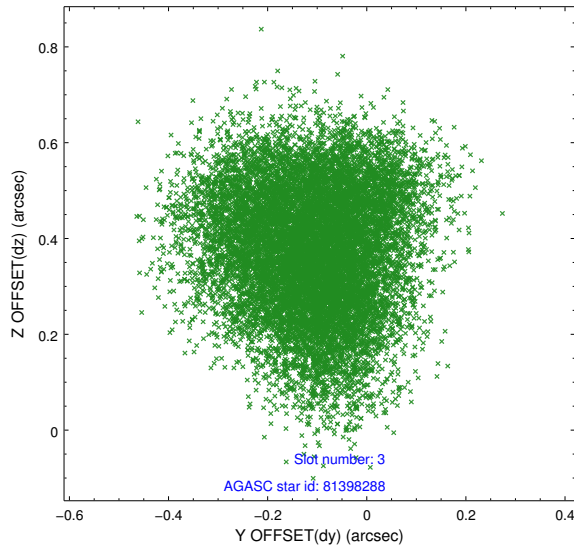


Slot Statistics

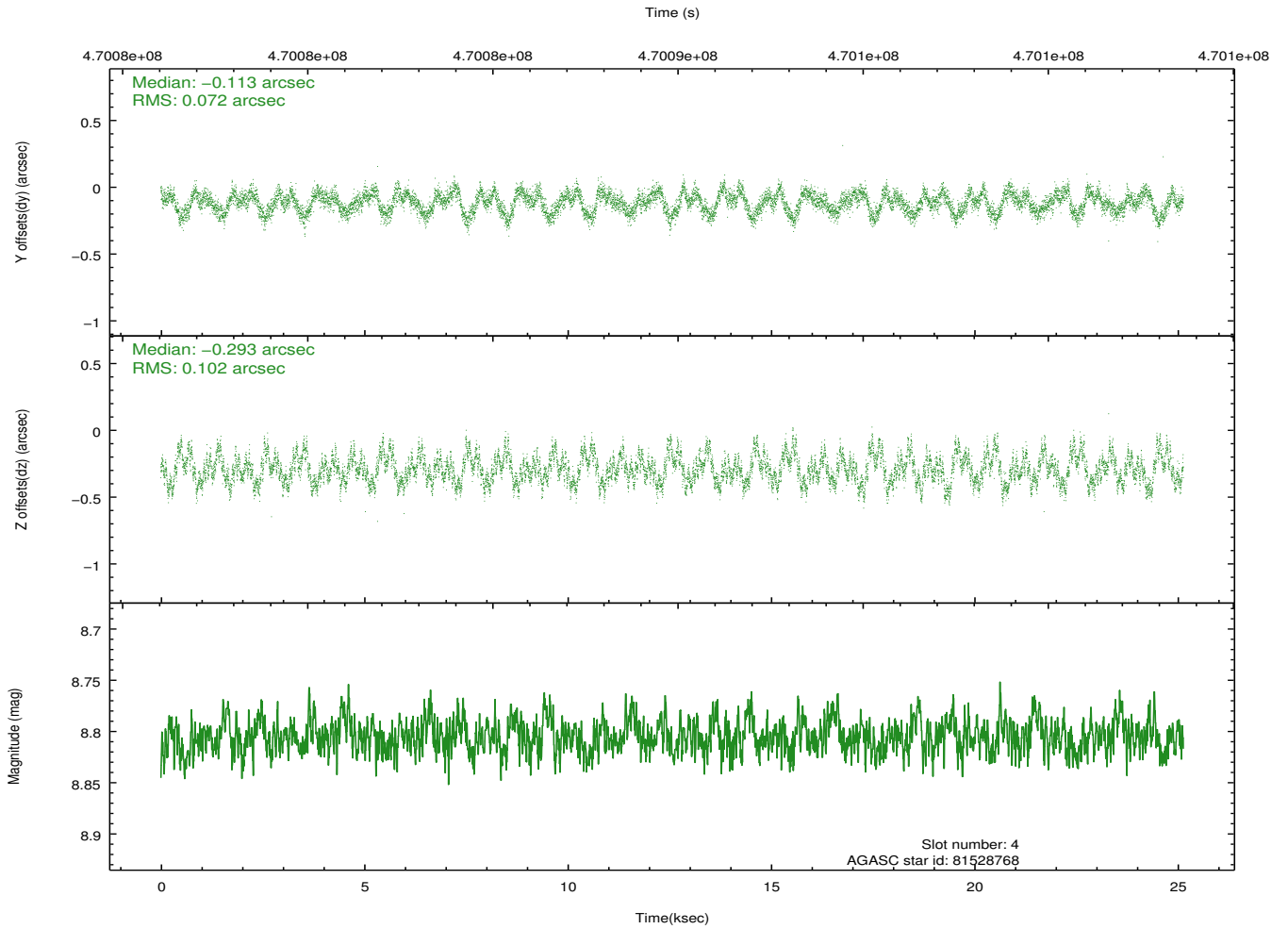
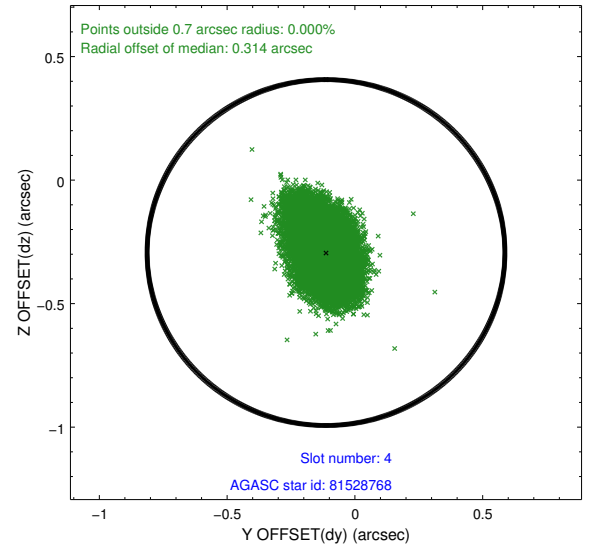
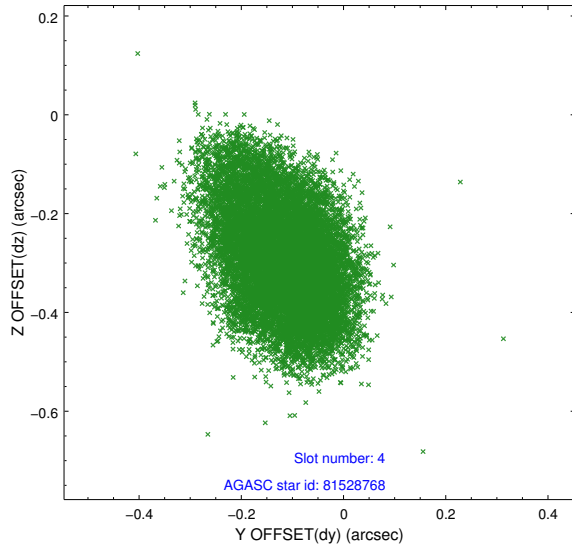
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.94	6132	-0.111	-0.046	0.012	0.023	0.000000	0.000000	-772.82	-1739.60
1	FID		ACIS-S-4	7.03	6131	0.266	0.067	0.007	0.013	0.000000	0.000000	2140.82	168.81
2	FID		ACIS-S-5	7.05	6132	-0.184	-0.012	0.011	0.023	0.000000	0.000000	-1825.55	162.62
3	GUIDE	used	81398288	9.69	12229	-0.104	0.382	0.184	0.286	25.243996	8.617595	-1909.64	-2337.01
4	GUIDE	used	81528768	8.81	12250	-0.113	-0.293	0.133	0.216	26.207431	8.433698	105.61	515.97
5	GUIDE	used	81532096	9.18	12257	0.093	0.053	0.117	0.183	25.638873	8.558619	-1135.62	-1141.85
6	GUIDE	used	81534528	8.43	12237	-0.137	-0.096	0.101	0.152	26.021465	8.876043	-1617.13	566.75
7	GUIDE	used	81402480	9.19	12254	0.274	-0.046	0.096	0.155	25.414913	8.195263	-273.18	-2410.12

2.4 Star Slots

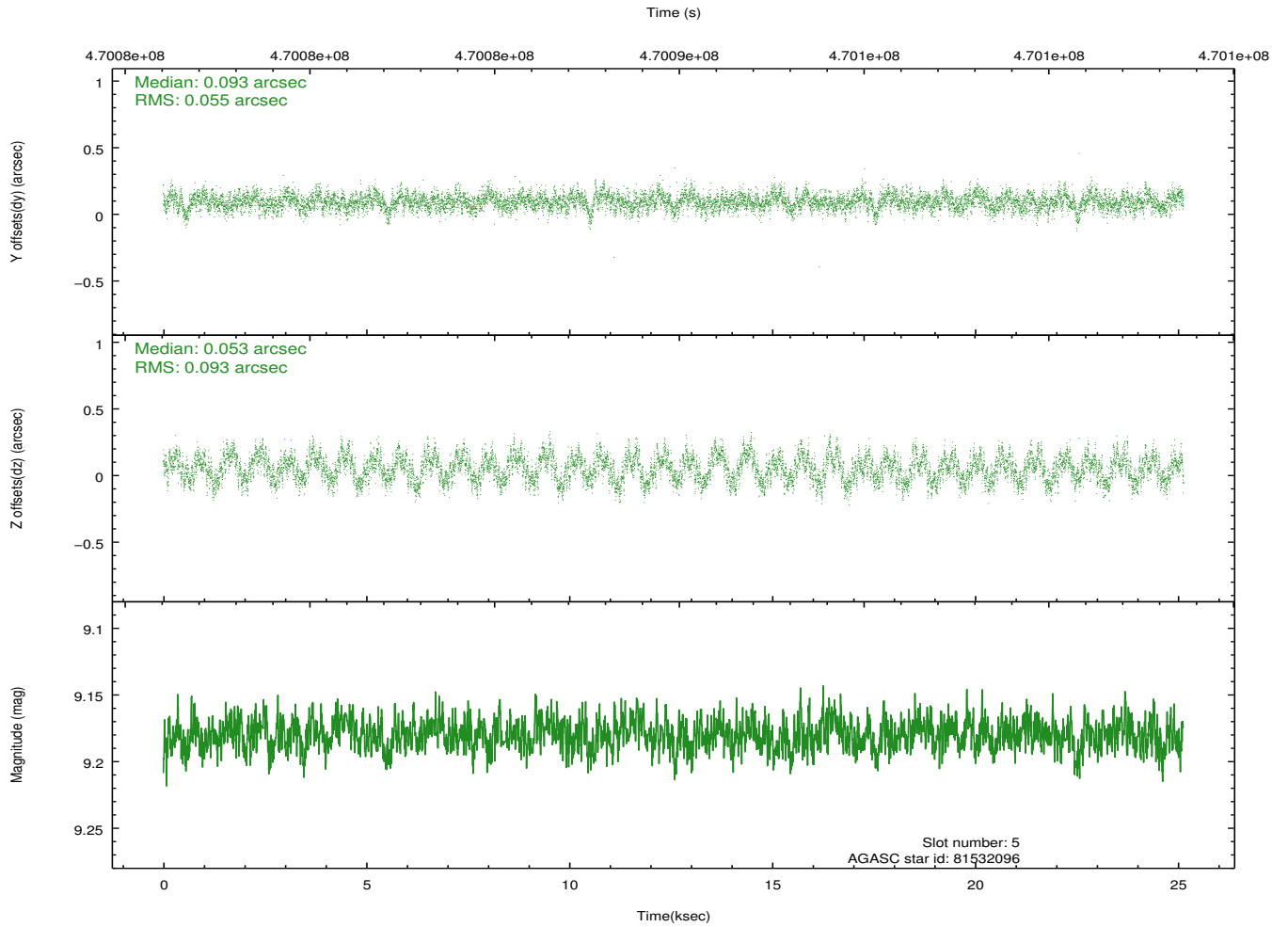
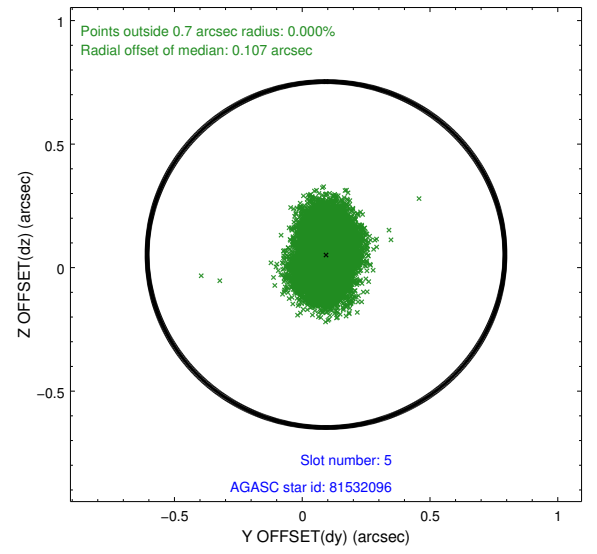
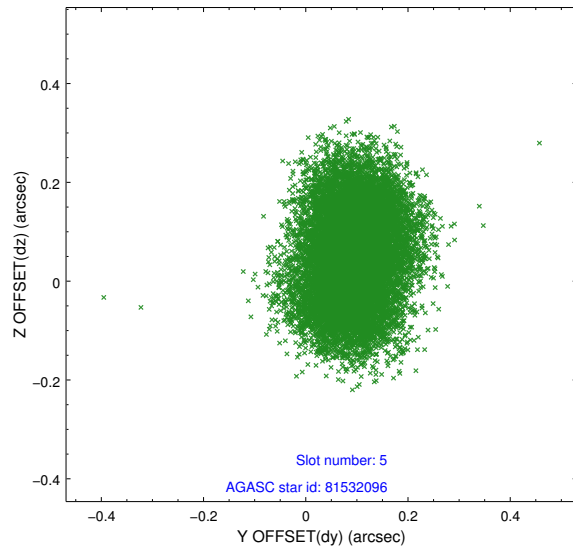
2.4.1 Slot 3



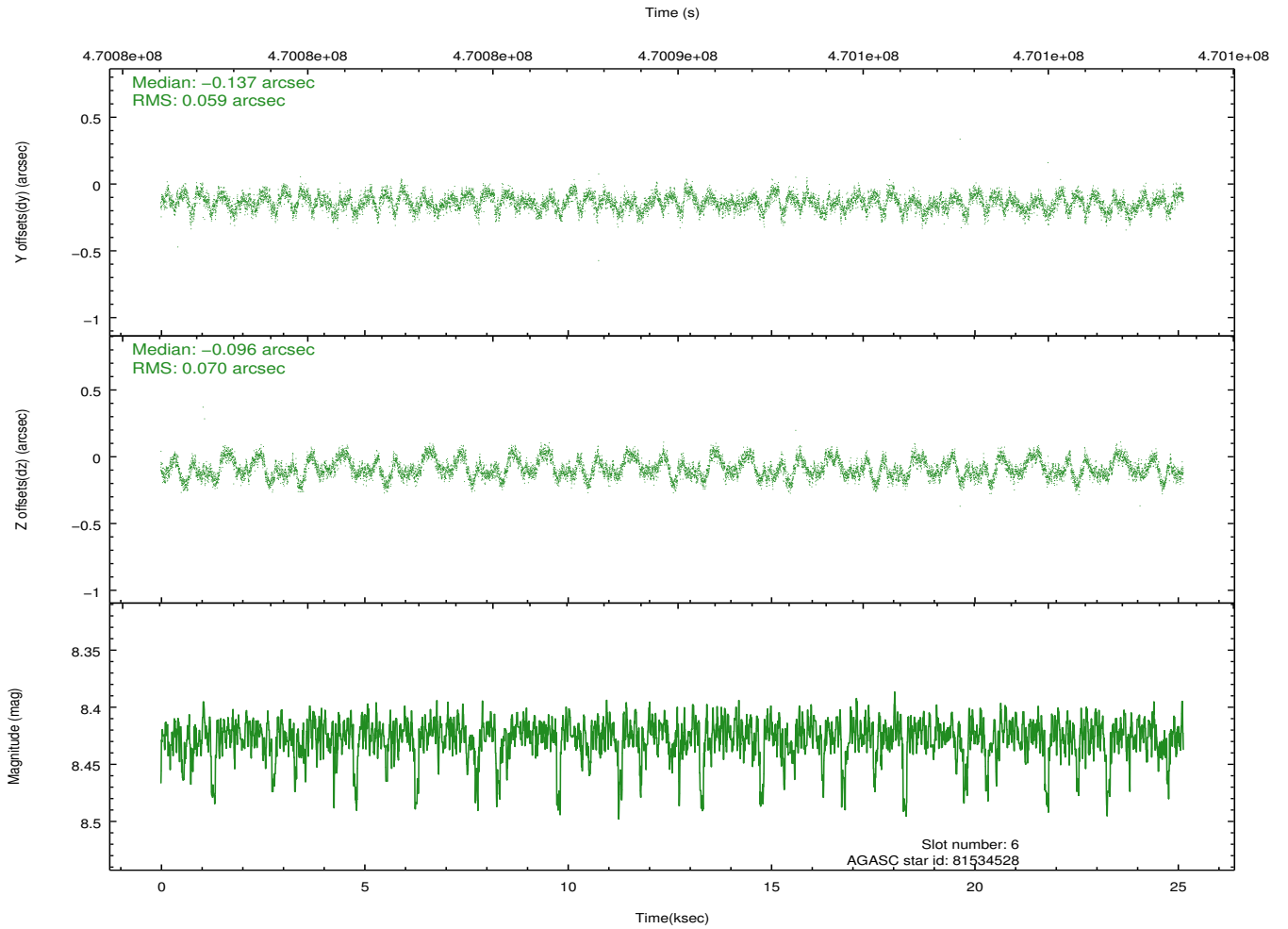
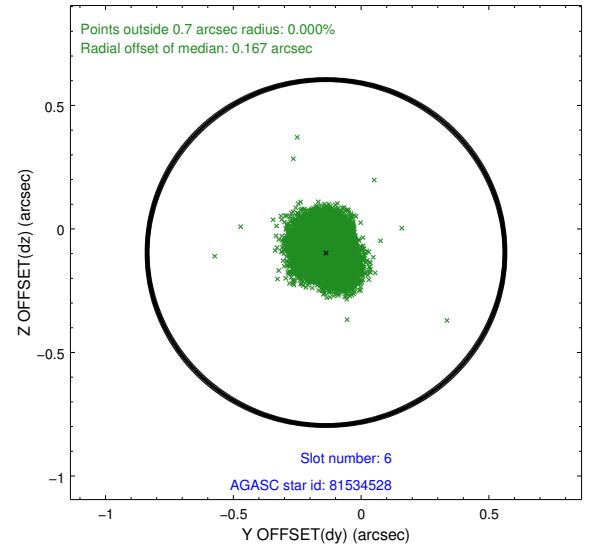
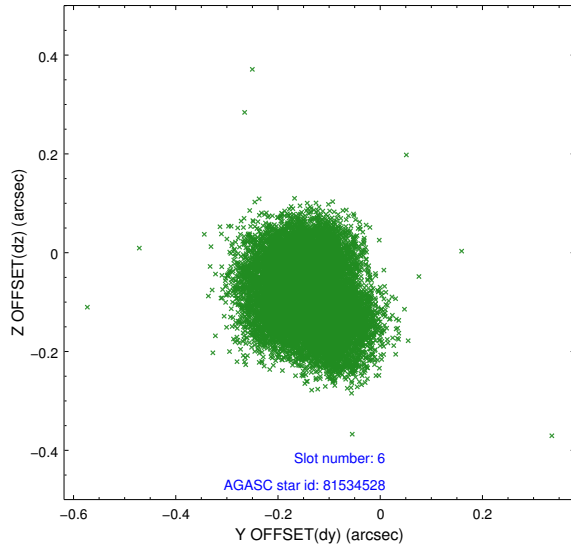
2.4.2 Slot 4



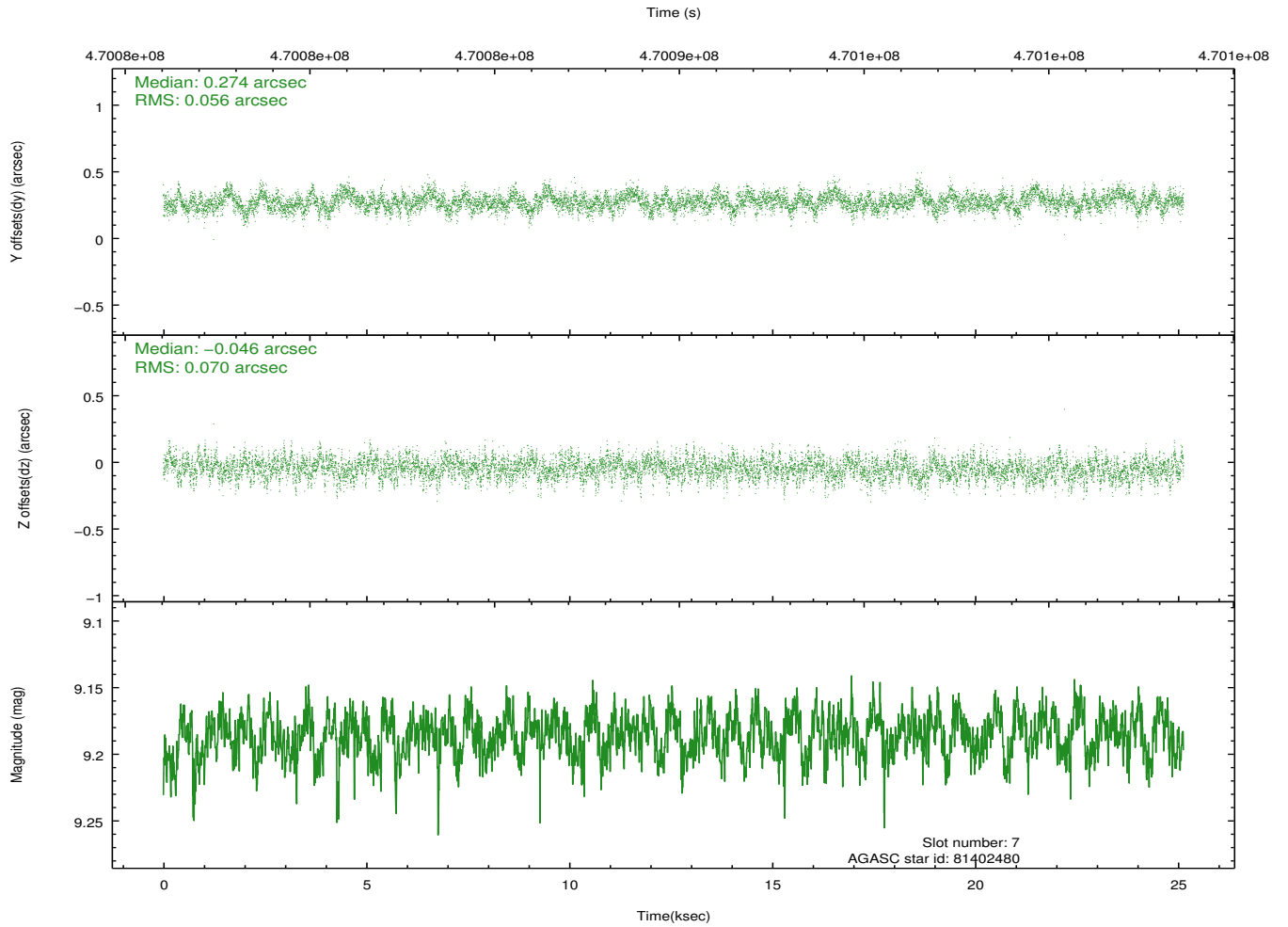
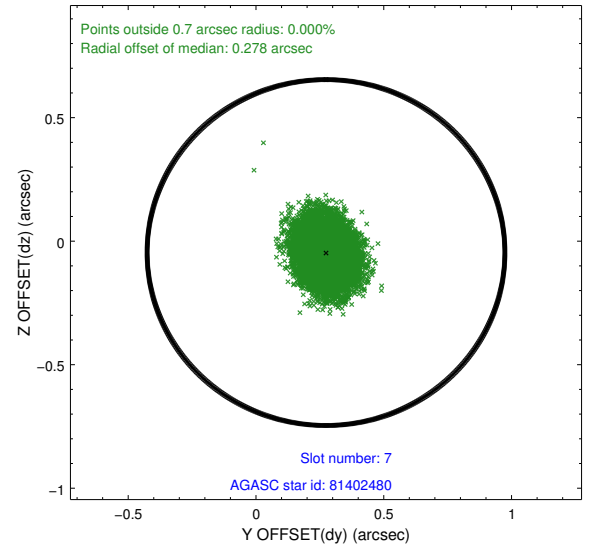
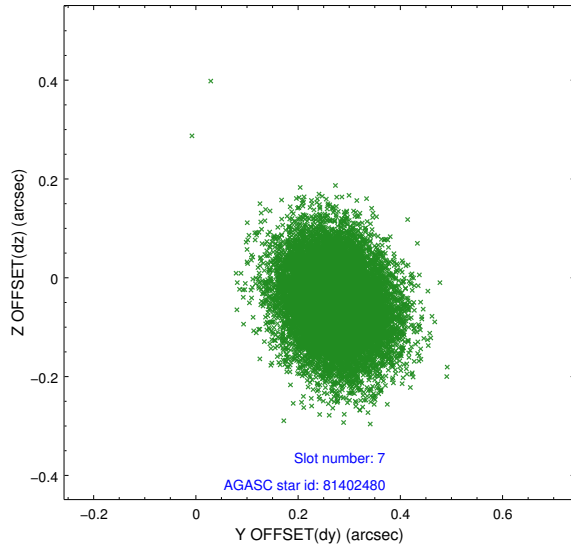
2.4.3 Slot 5



2.4.4 Slot 6

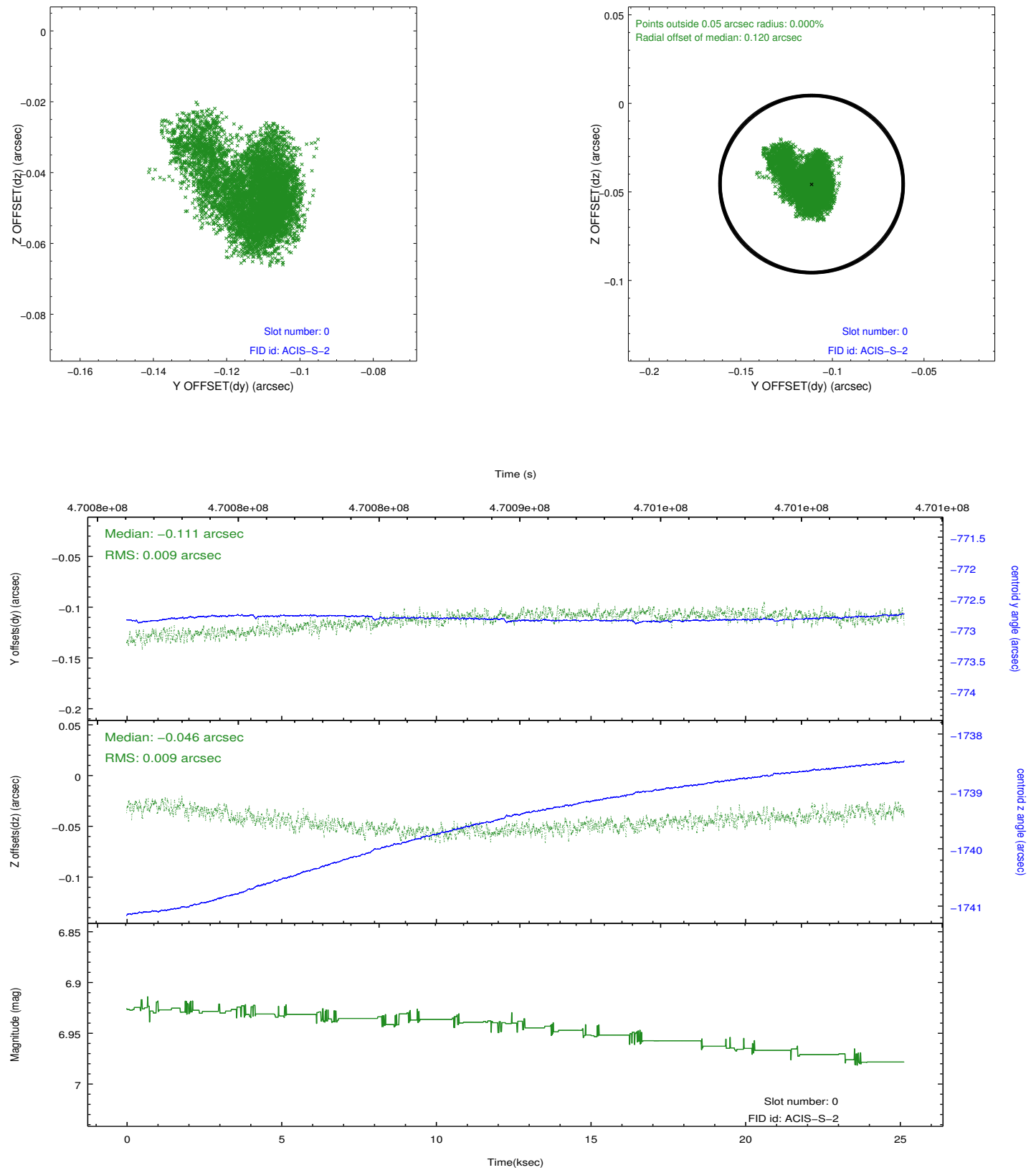


2.4.5 Slot 7

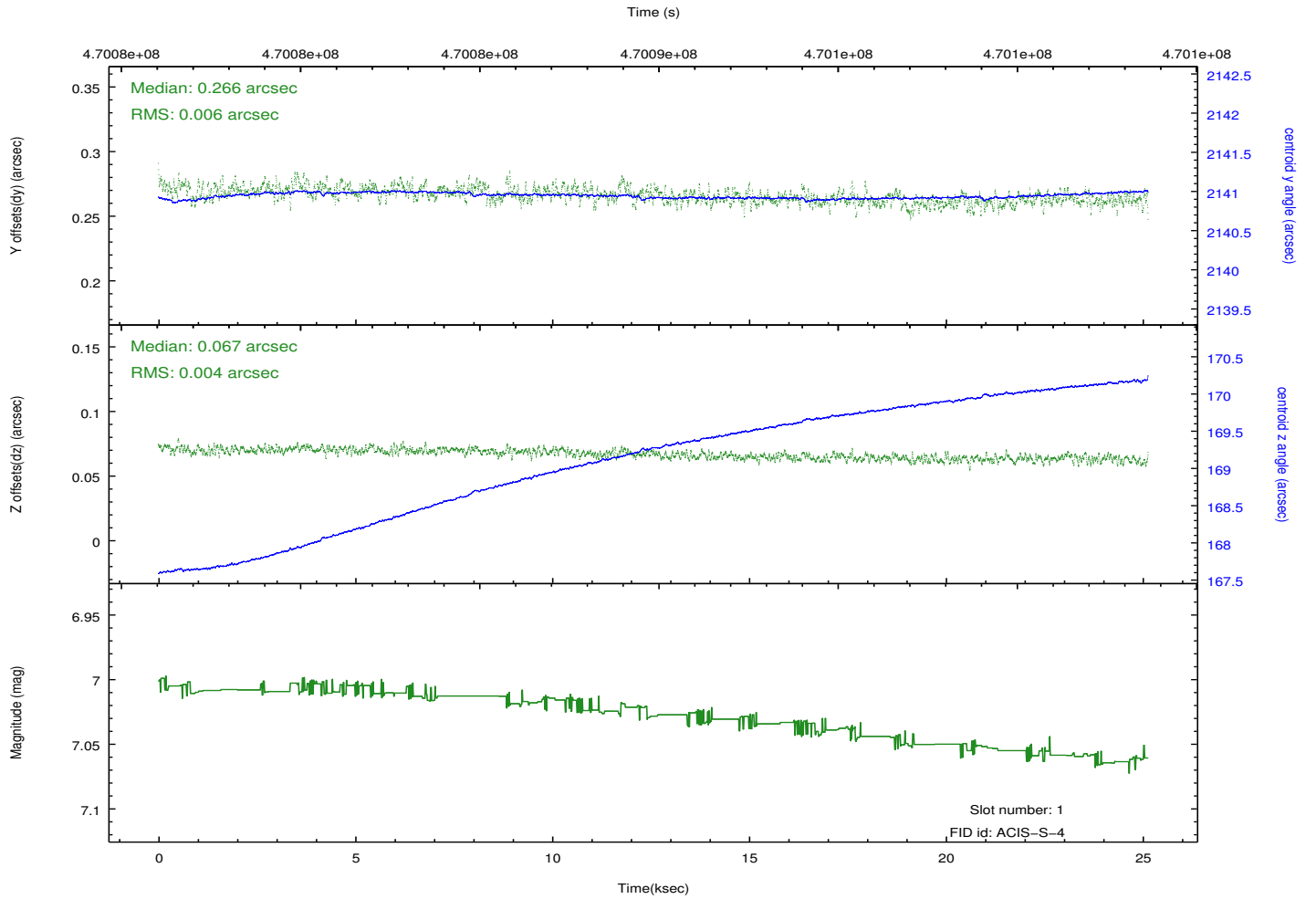
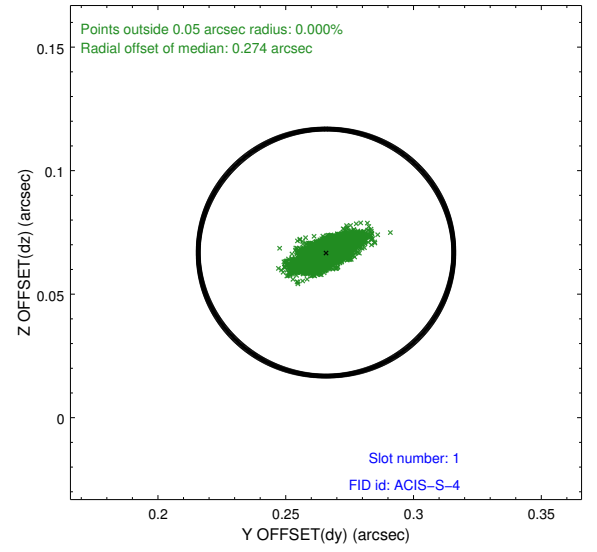
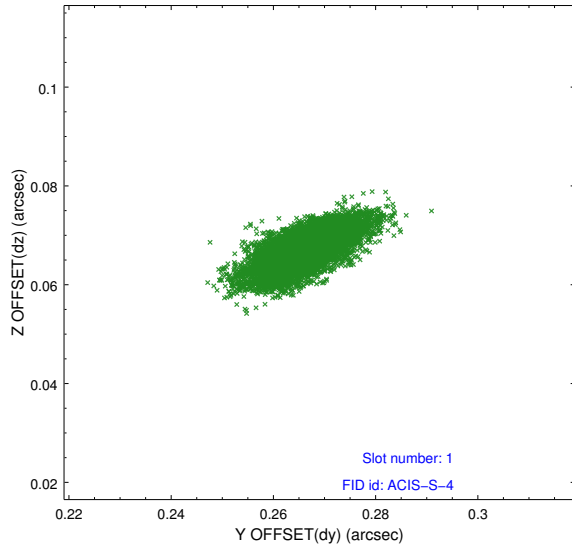


2.5 FID Slots

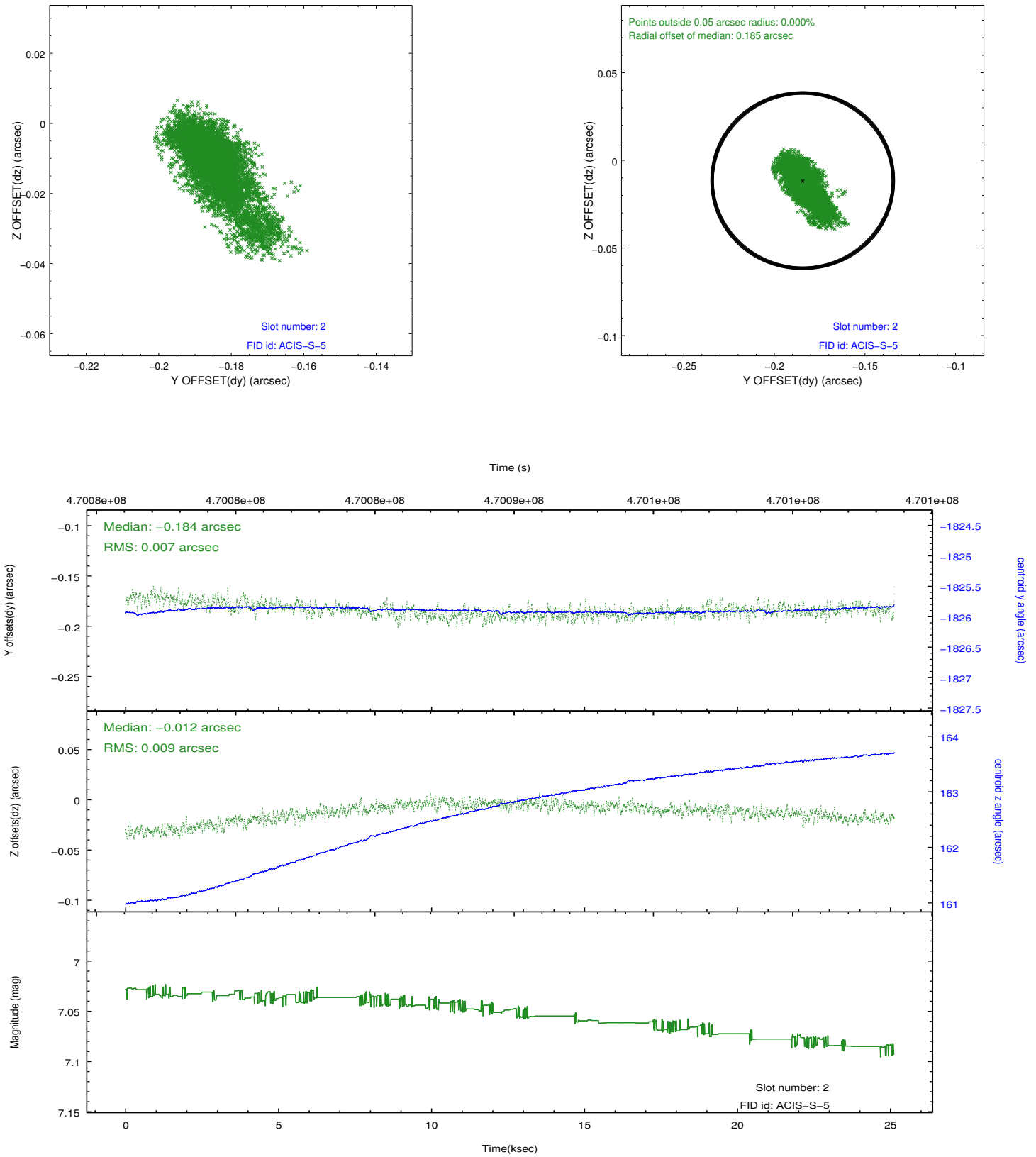
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.074439935327

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.