

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 13516 - L2 Version 2
Chandra X-Ray Center

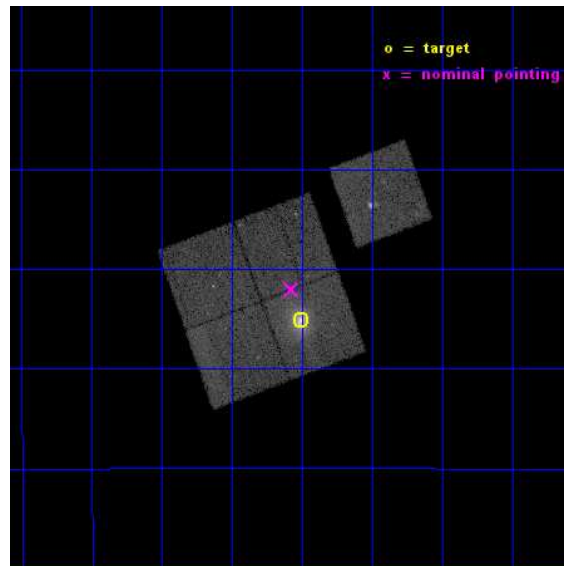
L2 Processing Date : Nov 30 2014

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1 Front

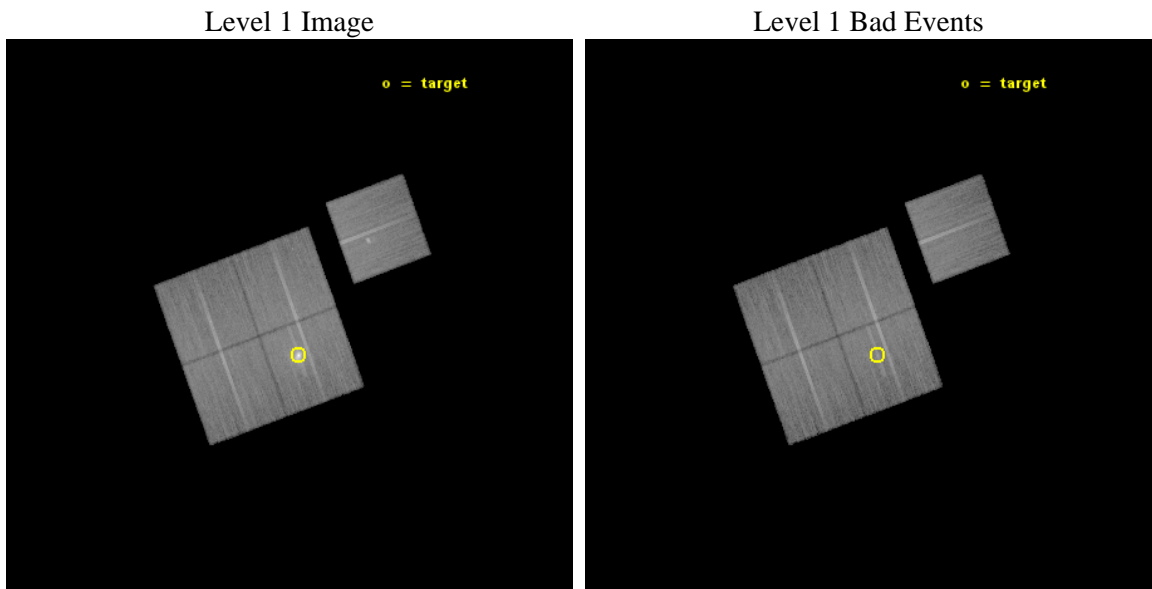
seq_num	801149	Sequence number
obs_id	13516	Observation id
title	RXJ1347-1145: the most luminous cluster in the Universe	Proposal t
observer	Dr. Stephen Murray	Principal investigator
object	RXJ1347.5-1145	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	206.8775	Observer's specified target RA [deg]
dec_targ	-11.752389	Observer's specified target Dec [deg]
ra_nom	206.89447101777	Nominal RA [deg]
dec_nom	-11.700557030429	Nominal Dec [deg]
roll_nom	69.870358393575	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40083.000308275	Sum of GTIs [s]
livetime	39559.286400572	Livetime [s]
ontime0	40079.859318018	Sum of GTIs [s]
ontime1	40083.000308275	Sum of GTIs [s]
ontime2	40083.000308275	Sum of GTIs [s]
ontime3	40083.000308275	Sum of GTIs [s]
ontime6	40083.000308275	Sum of GTIs [s]
l2events	146911	Number of level 2 events



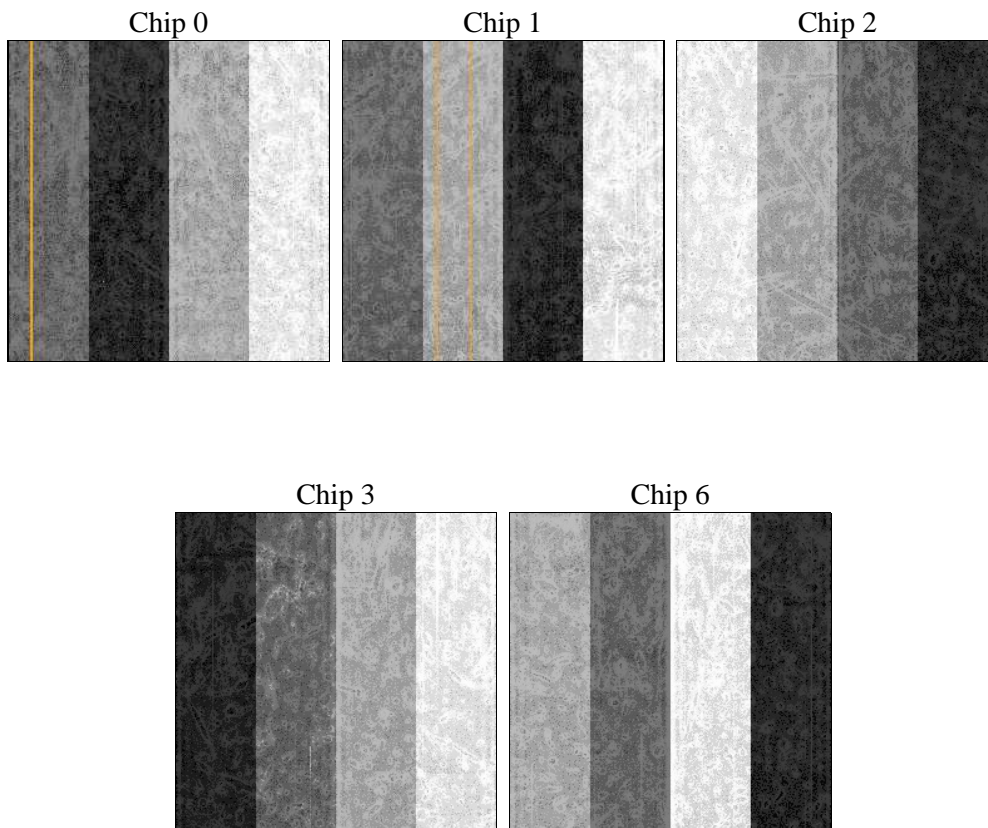
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	40083.000308275	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	40079.859318018	Sum of GTIs [s]
date	2014-11-30T05:45:24	Date and time of file creation	ontime1	40083.000308275	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	40083.000308275	Sum of GTIs [s]
			ontime3	40083.000308275	Sum of GTIs [s]
			ontime6	40083.000308275	Sum of GTIs [s]
			l1events	1058432	Number of level 1 events

2.1.4 Events

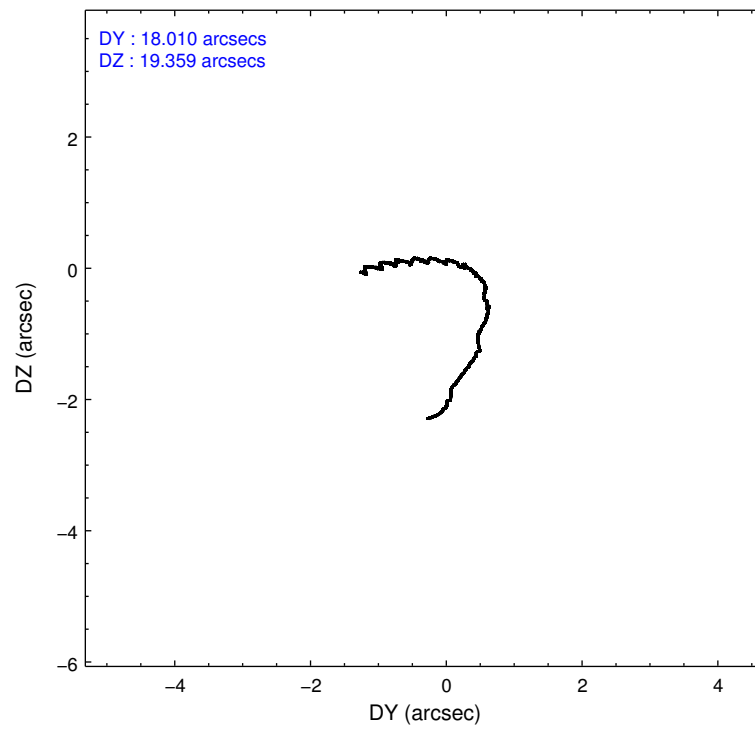
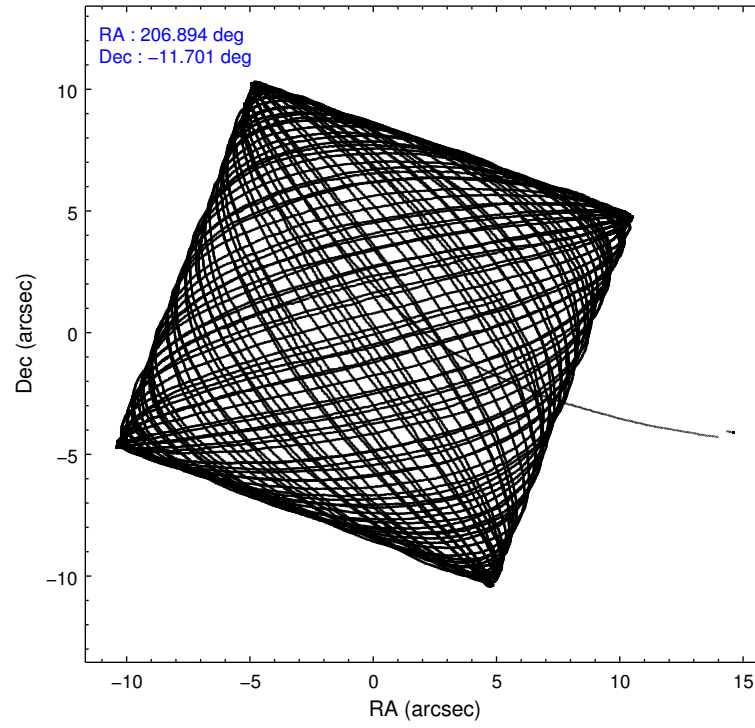
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	193344	196282	209876	248636	210294
rejected events	168297	168860	185401	184239	182897
rejected %	87%	86%	88%	74%	86%

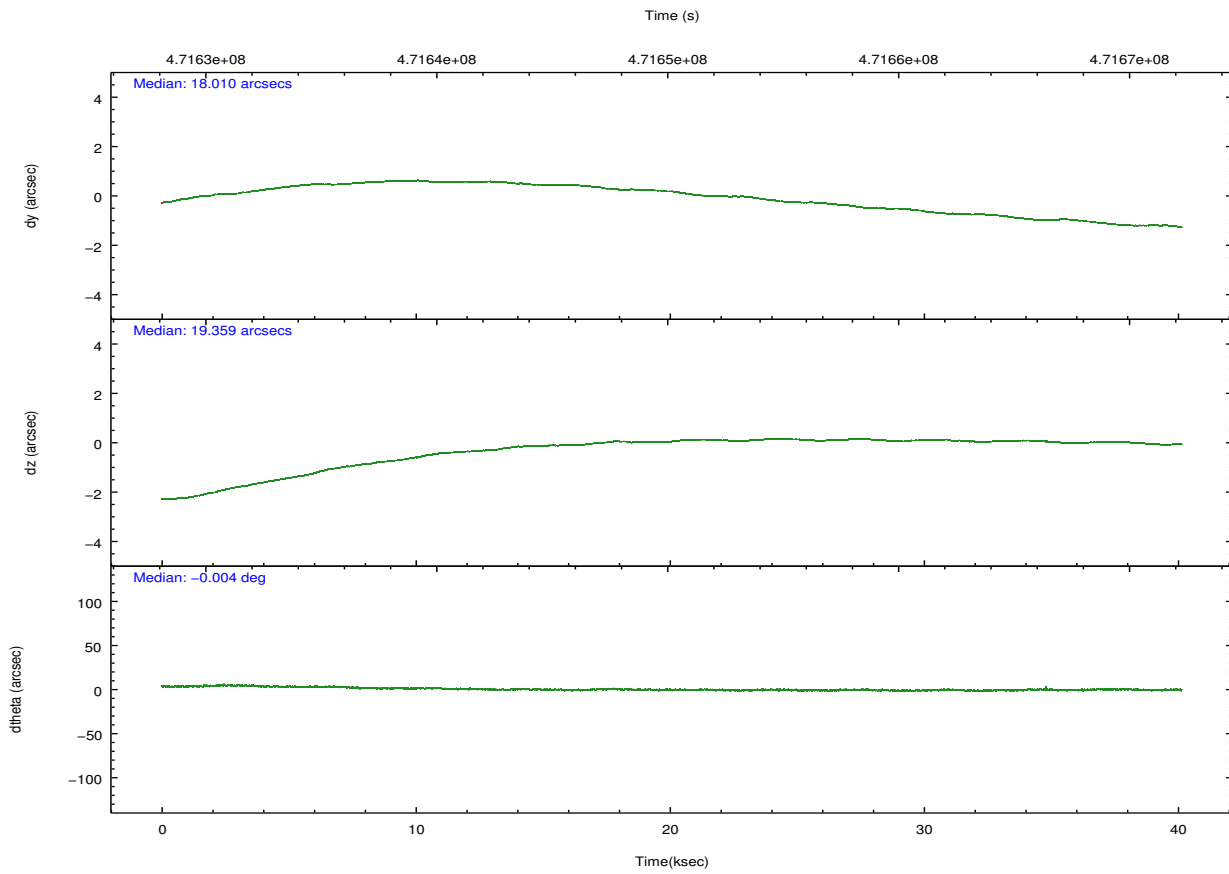
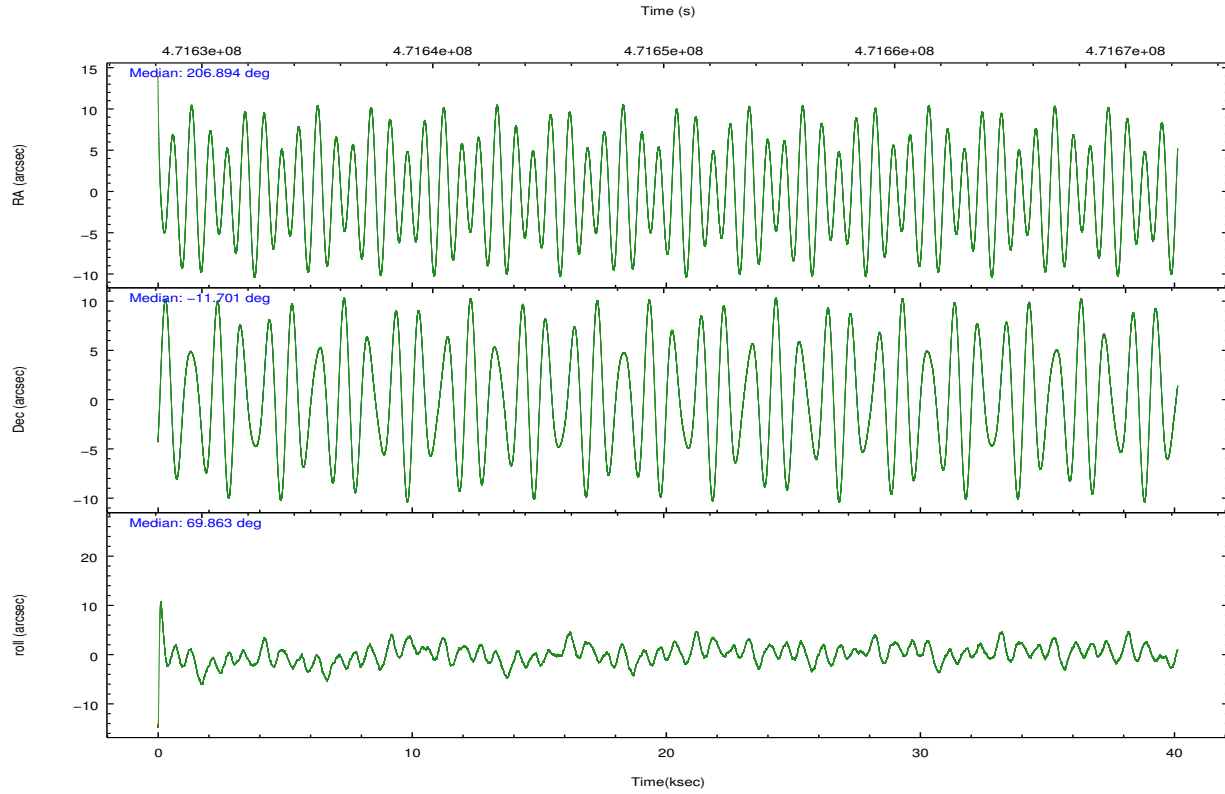
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8734	9563	8791	40991	10398
	4%	4%	4%	16%	4%
grade 1 events	111	121	114	305	118
	0%	0%	0%	0%	0%
grade 2 events	6073	6586	5943	9609	5833
	3%	3%	2%	3%	2%
grade 3 events	2633	2651	2472	3857	2720
	1%	1%	1%	1%	1%
grade 4 events	2441	2718	2459	3831	2642
	1%	1%	1%	1%	1%
grade 5 events	9777	10404	9263	11197	10462
	5%	5%	4%	4%	4%
grade 6 events	5167	5909	4811	6115	5806
	2%	3%	2%	2%	2%
grade 7 events	158408	158330	176023	172731	172315
	81%	80%	83%	69%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	206.899401	206.8944710177682	CCD I2 on	Y	Y
[deg] Pointing Dec	-11.727635	-11.70055703042923	CCD I3 on	Y	Y
[deg] Pointing Roll	69.662683	69.8703583935748	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-225.892463	-225.8835723768489	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.7	-7.708880626080827	CCD S4 on	N	N
[s] Observation start time (MET)	471630238.184000	471629133.74663	CCD S5 on	N	N
Observation start date	2012-12-11T16:22:51	2012-12-11T16:05:33	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	471670238.184000	471670801.53641	On-chip summing requested	N	N
Observation end date	2012-12-12T03:29:31	2012-12-12T03:40:01	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



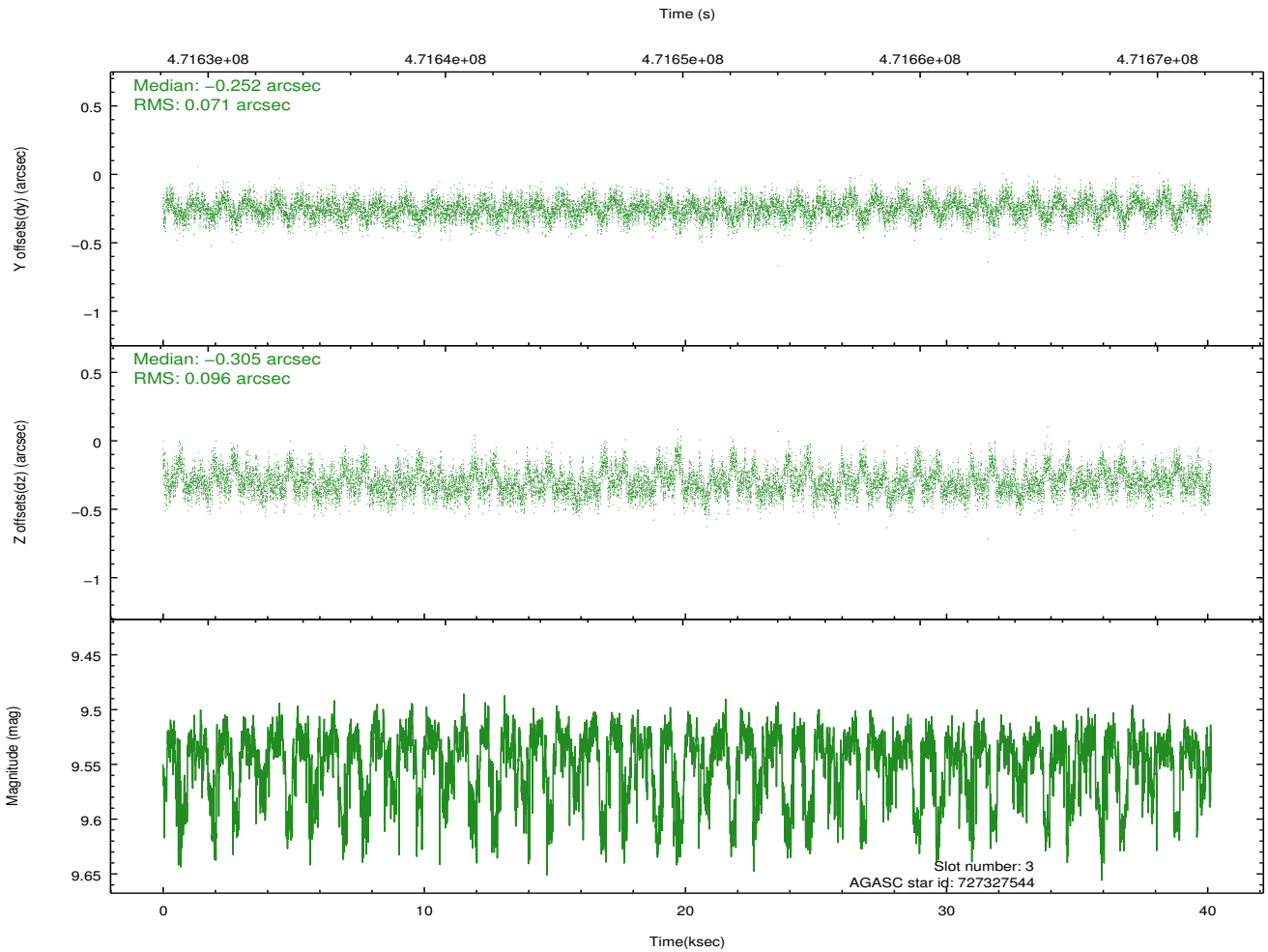
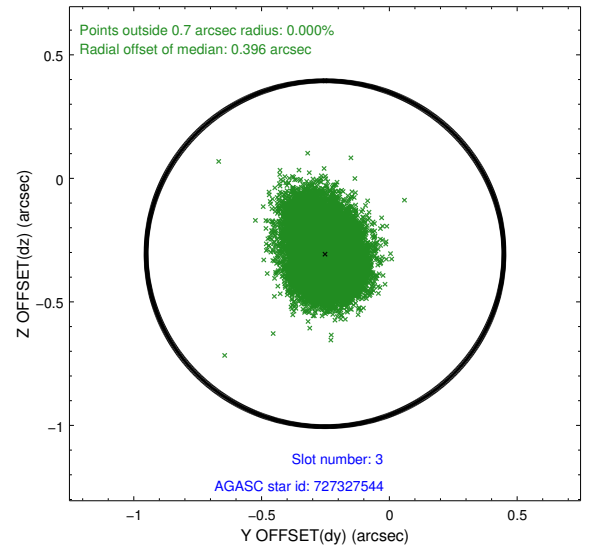
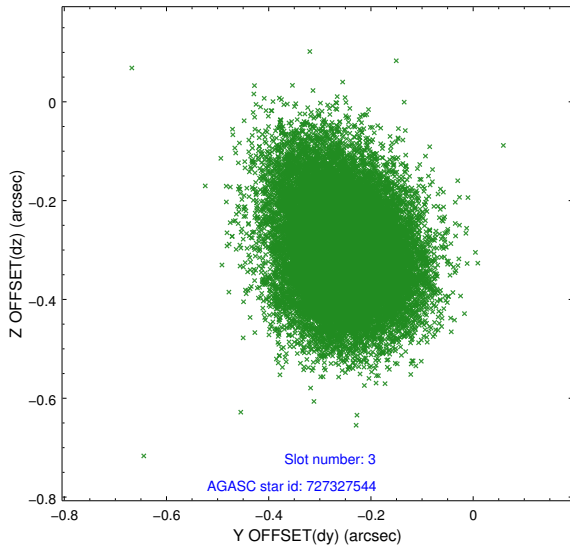


Slot Statistics

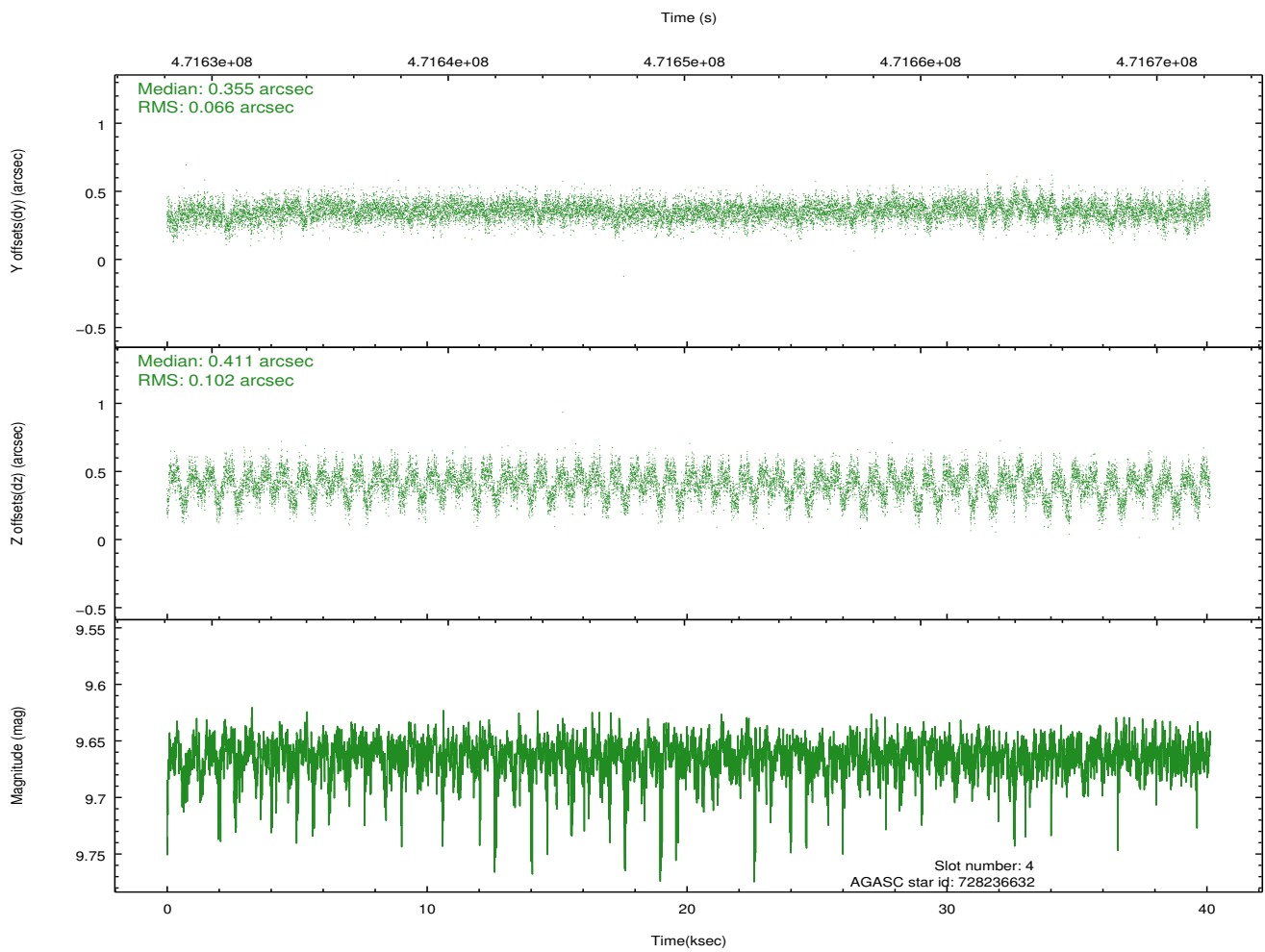
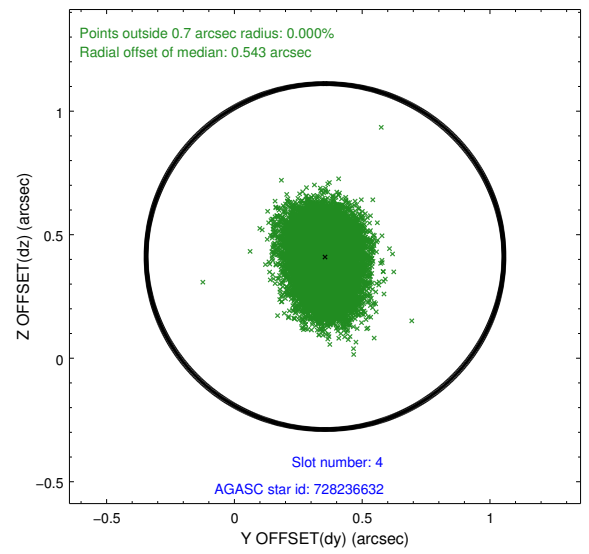
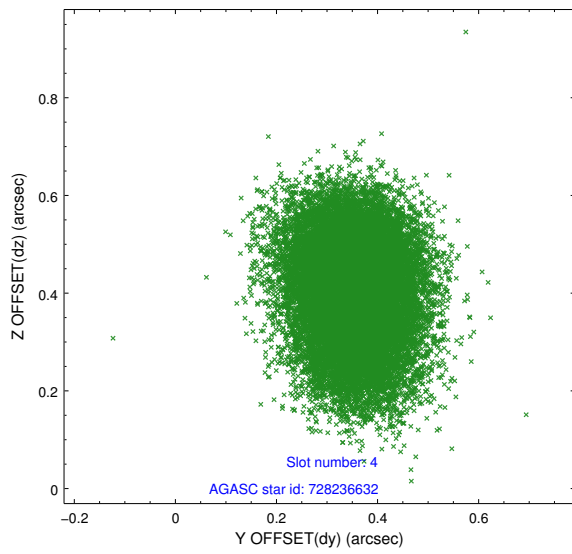
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.04	9790	0.122	-0.071	0.016	0.074	0.000000	0.000000	921.51	-1001.00
1	FID		ACIS-I-5	7.03	9789	-0.298	0.102	0.029	0.038	0.000000	0.000000	-1827.08	896.56
2	FID		ACIS-I-6	7.04	9790	0.073	0.040	0.018	0.035	0.000000	0.000000	386.89	1541.09
3	GUIDE	used	727327544	9.54	19444	-0.252	-0.305	0.126	0.206	206.398747	-11.483258	209.45	1961.20
4	GUIDE	used	728236632	9.66	19559	0.355	0.411	0.130	0.212	206.842205	-12.122561	-1402.37	-304.96
5	GUIDE	used	728237392	6.96	19579	-0.068	0.153	0.059	0.120	207.704489	-11.358782	2229.40	-2204.00
6	GUIDE	used	728245744	8.68	19563	-0.100	-0.365	0.074	0.118	206.959040	-11.284446	1569.23	356.95
7	GUIDE	used	728242024	8.51	19569	0.073	0.105	0.100	0.166	207.746757	-11.418672	2078.64	-2418.54

2.4 Star Slots

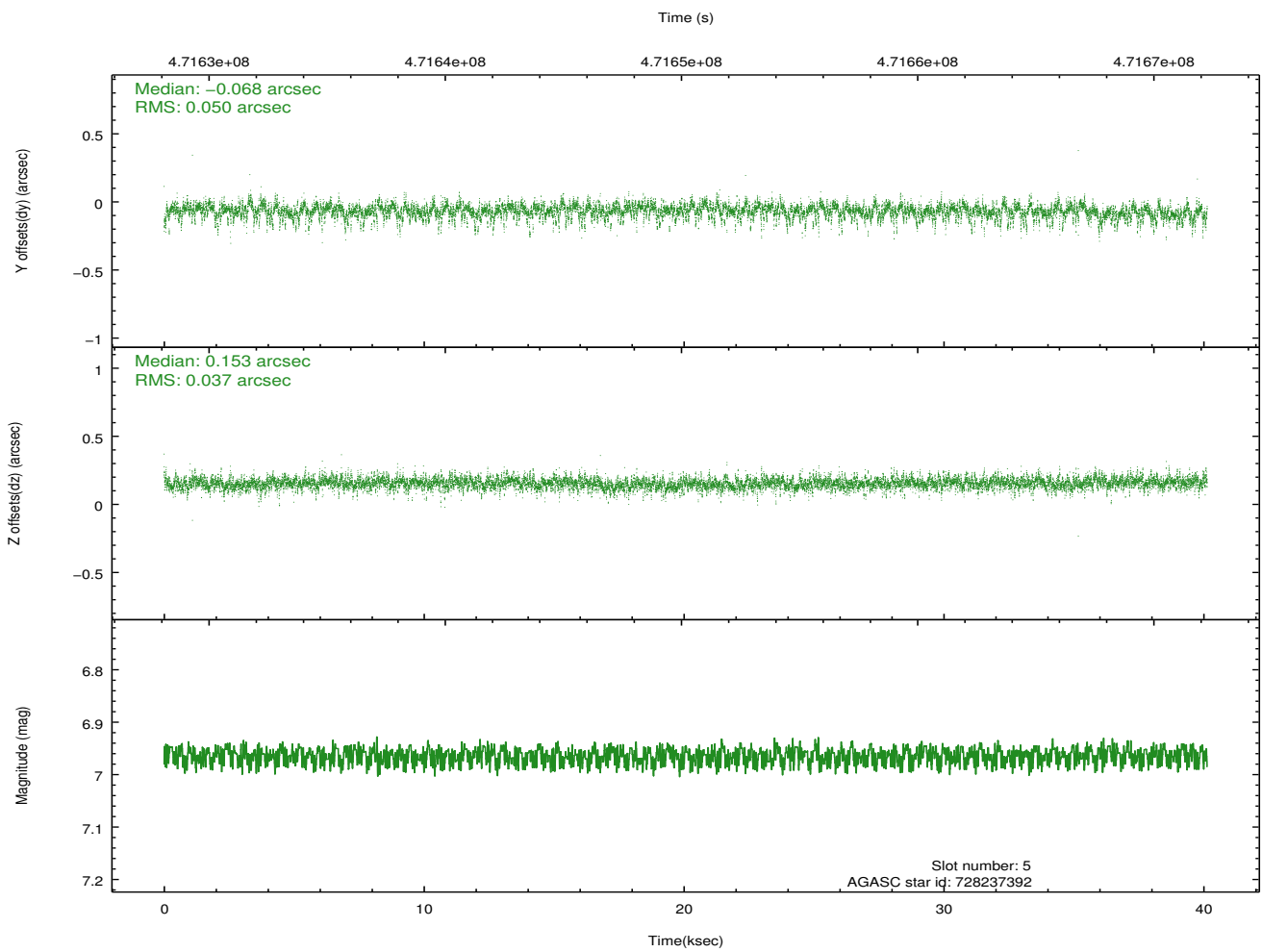
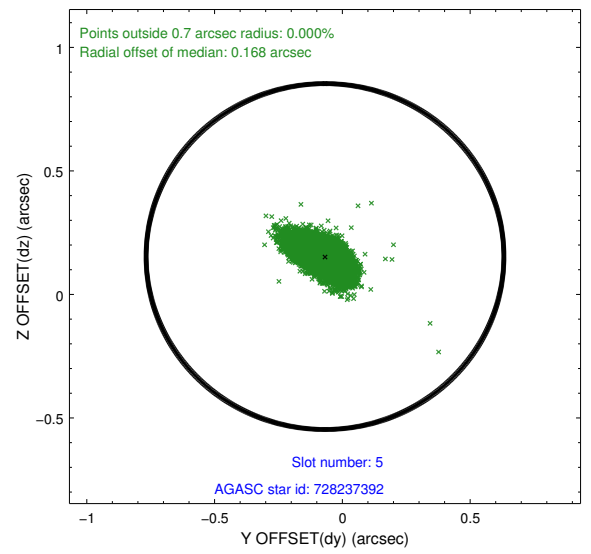
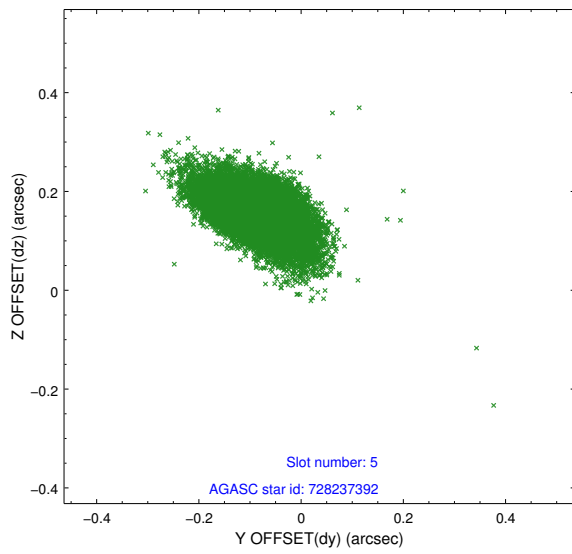
2.4.1 Slot 3



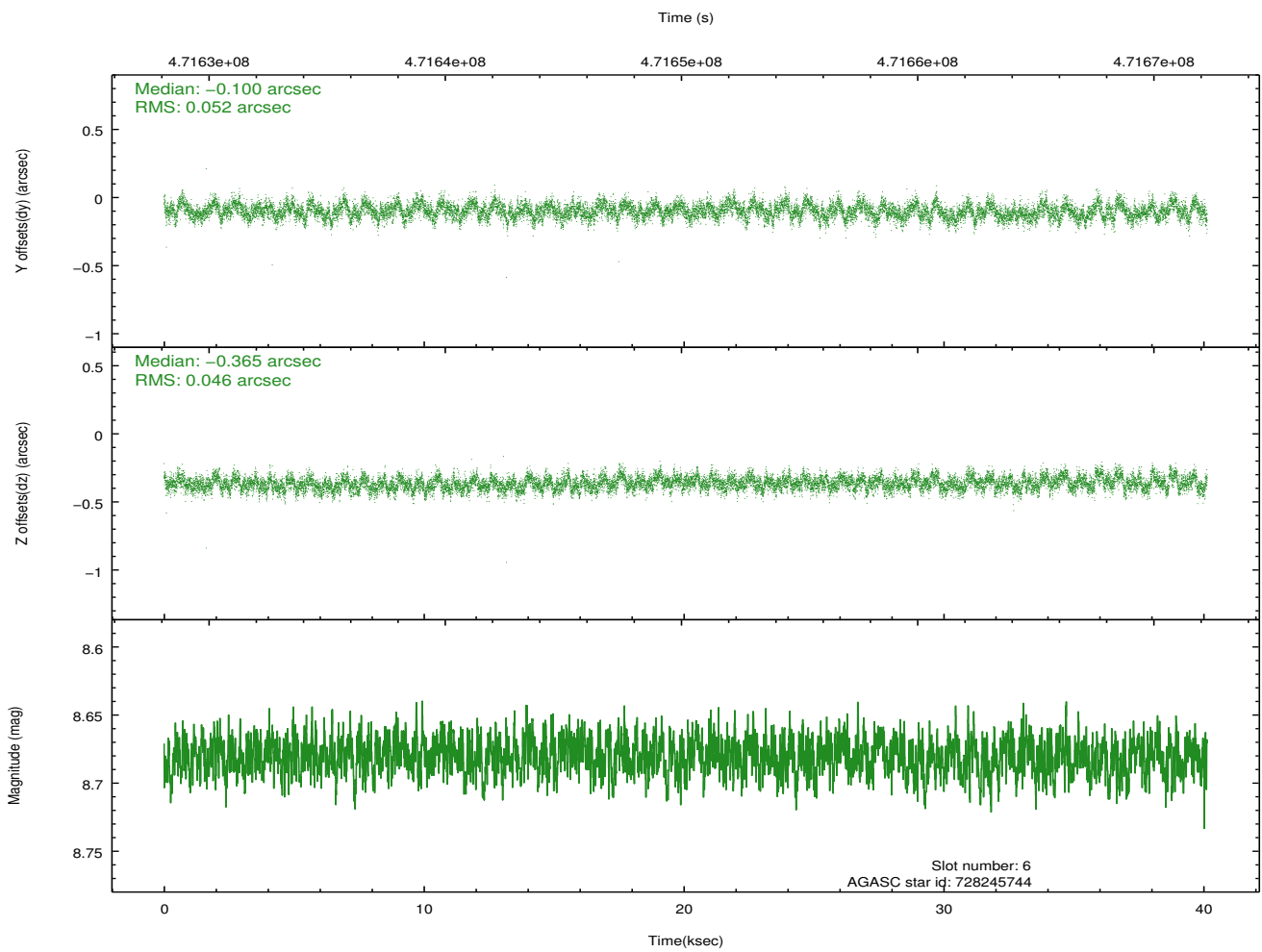
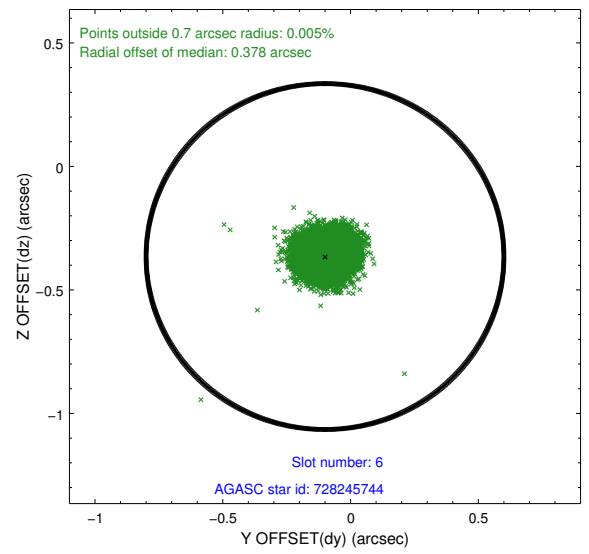
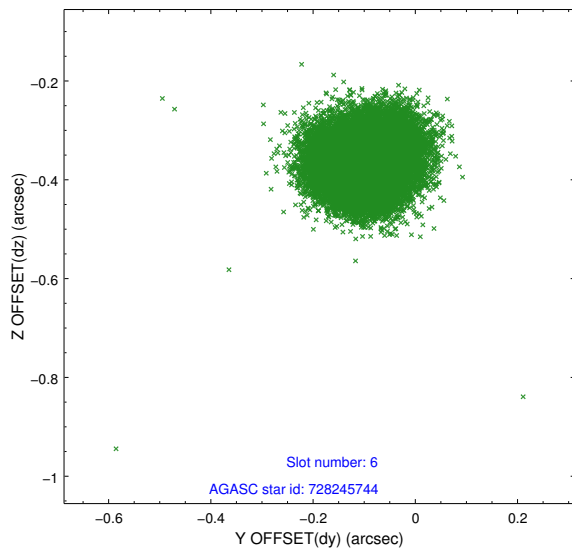
2.4.2 Slot 4



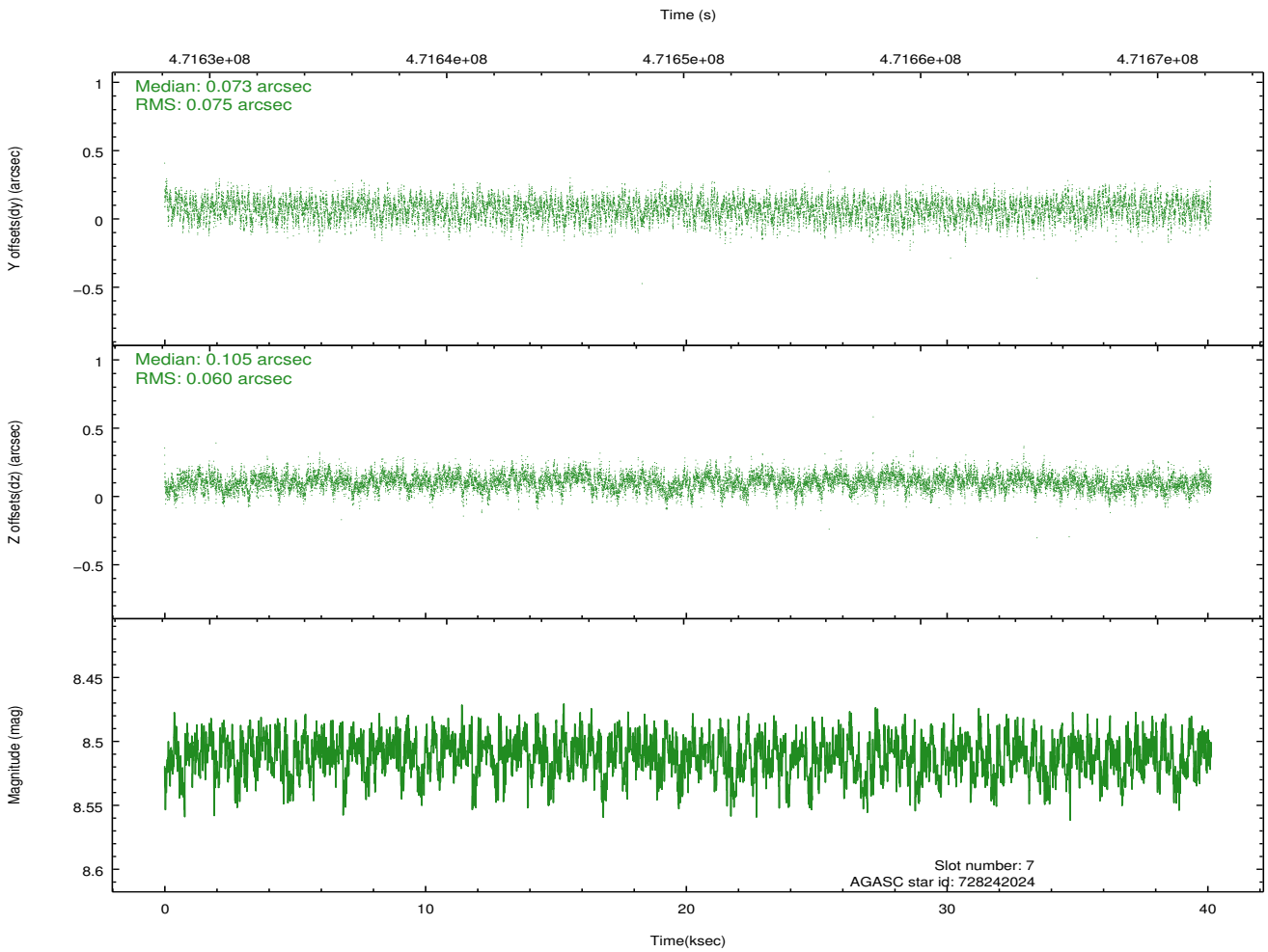
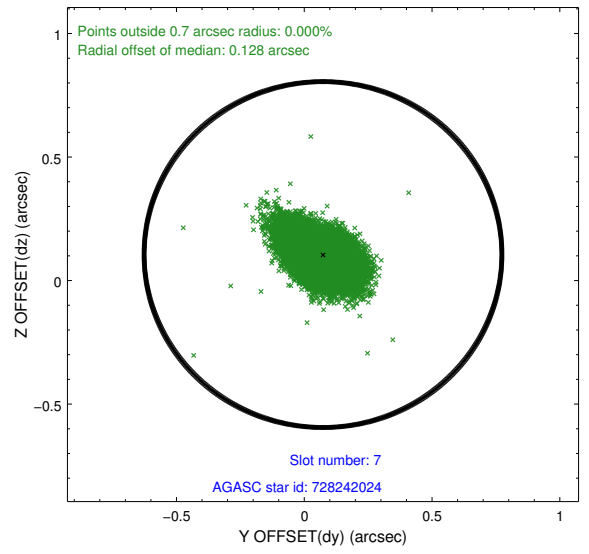
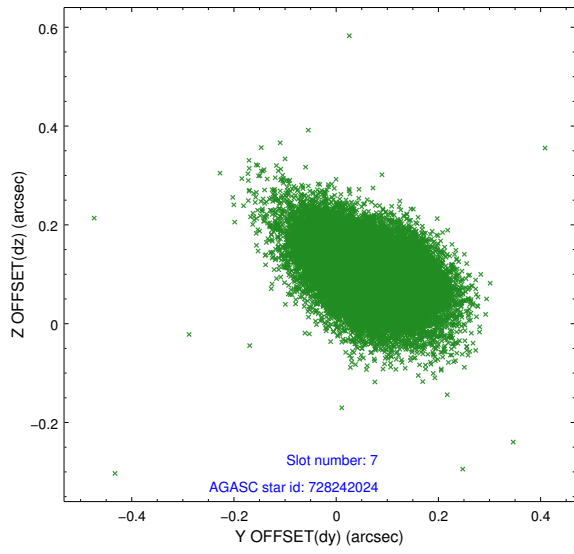
2.4.3 Slot 5



2.4.4 Slot 6

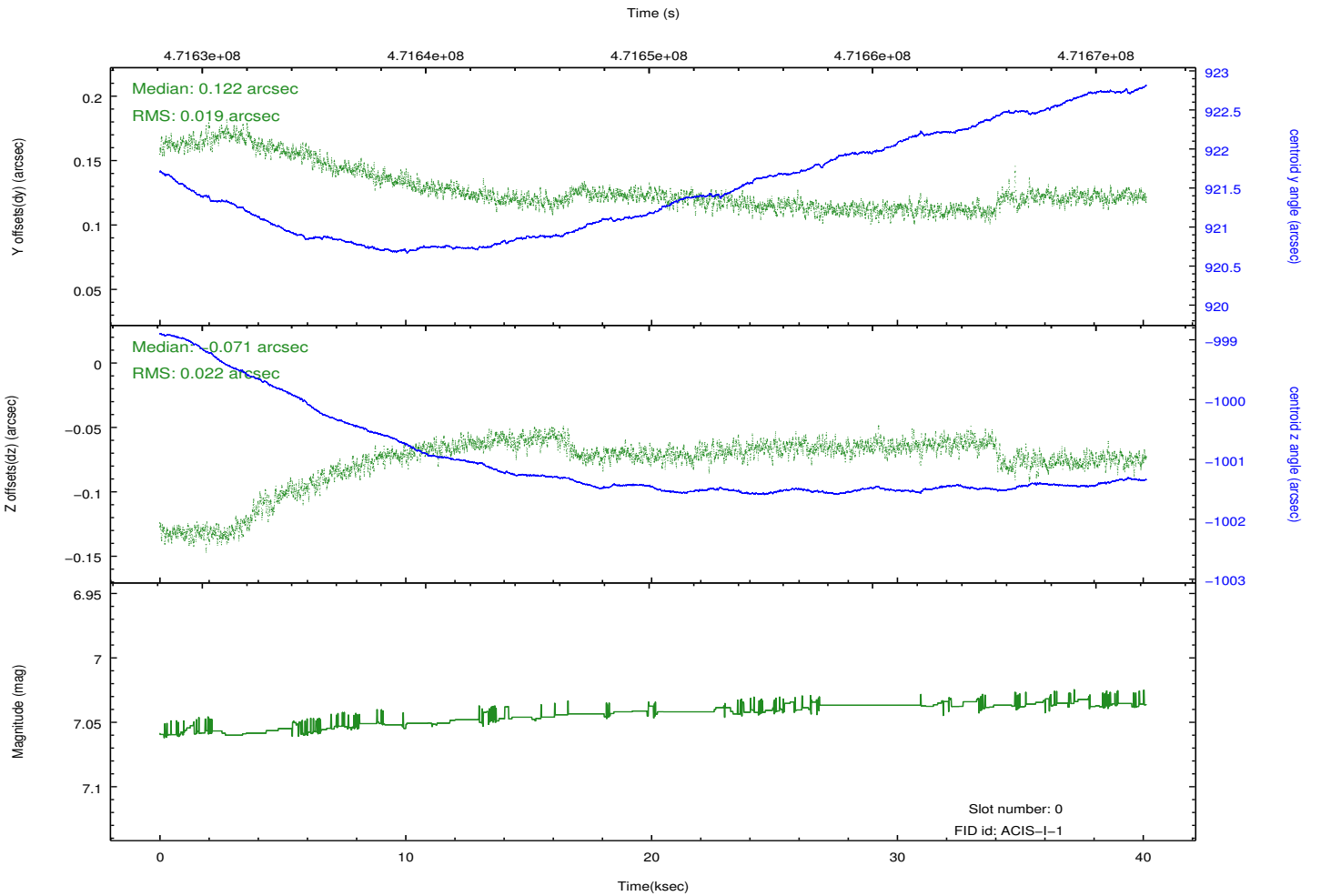
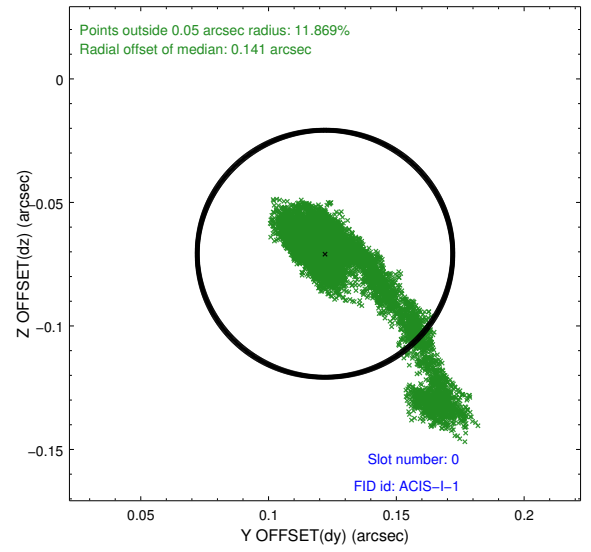
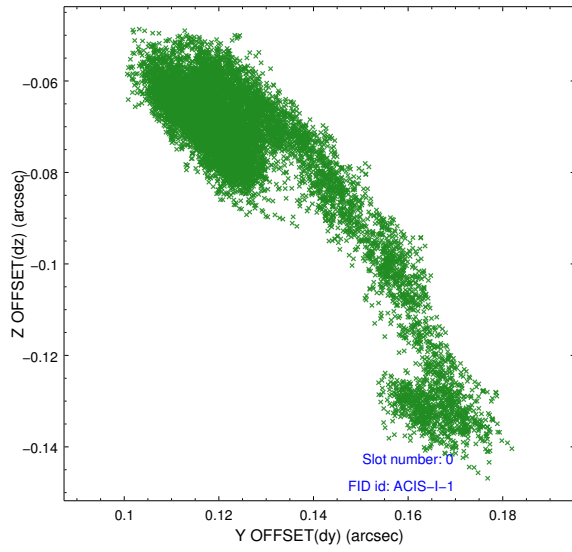


2.4.5 Slot 7

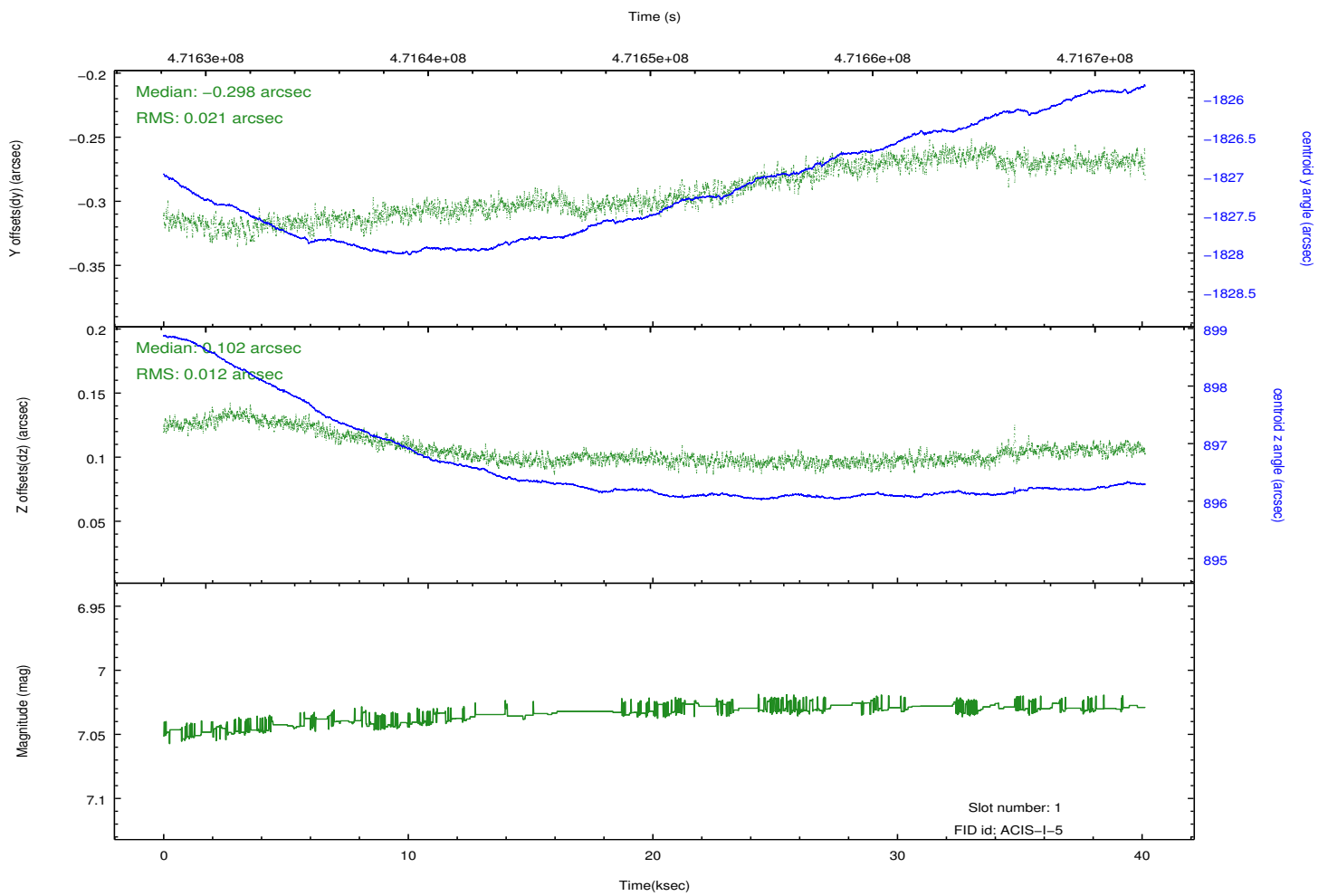
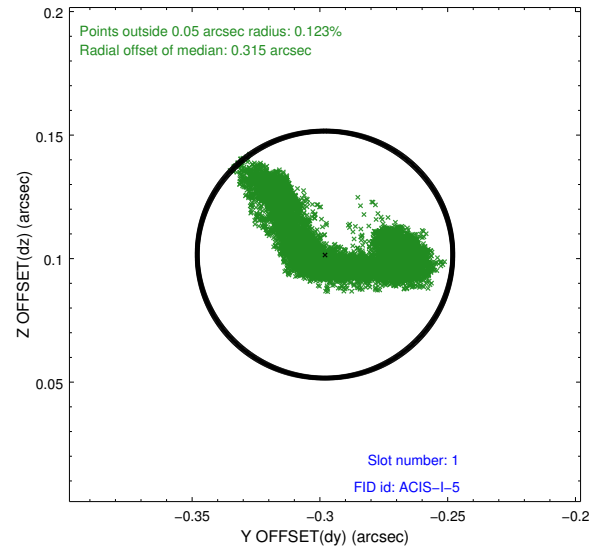
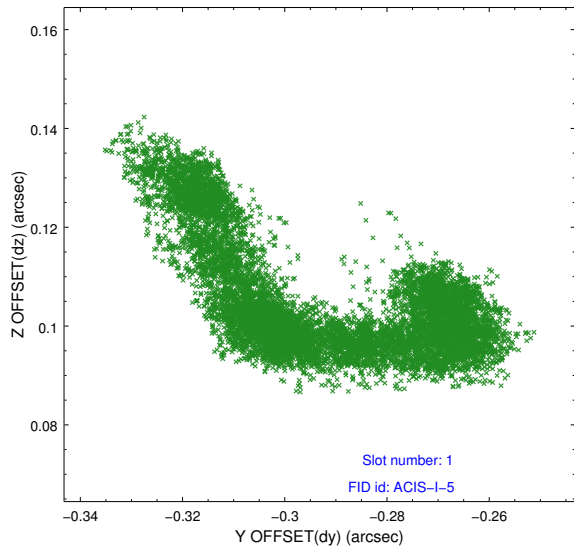


2.5 FID Slots

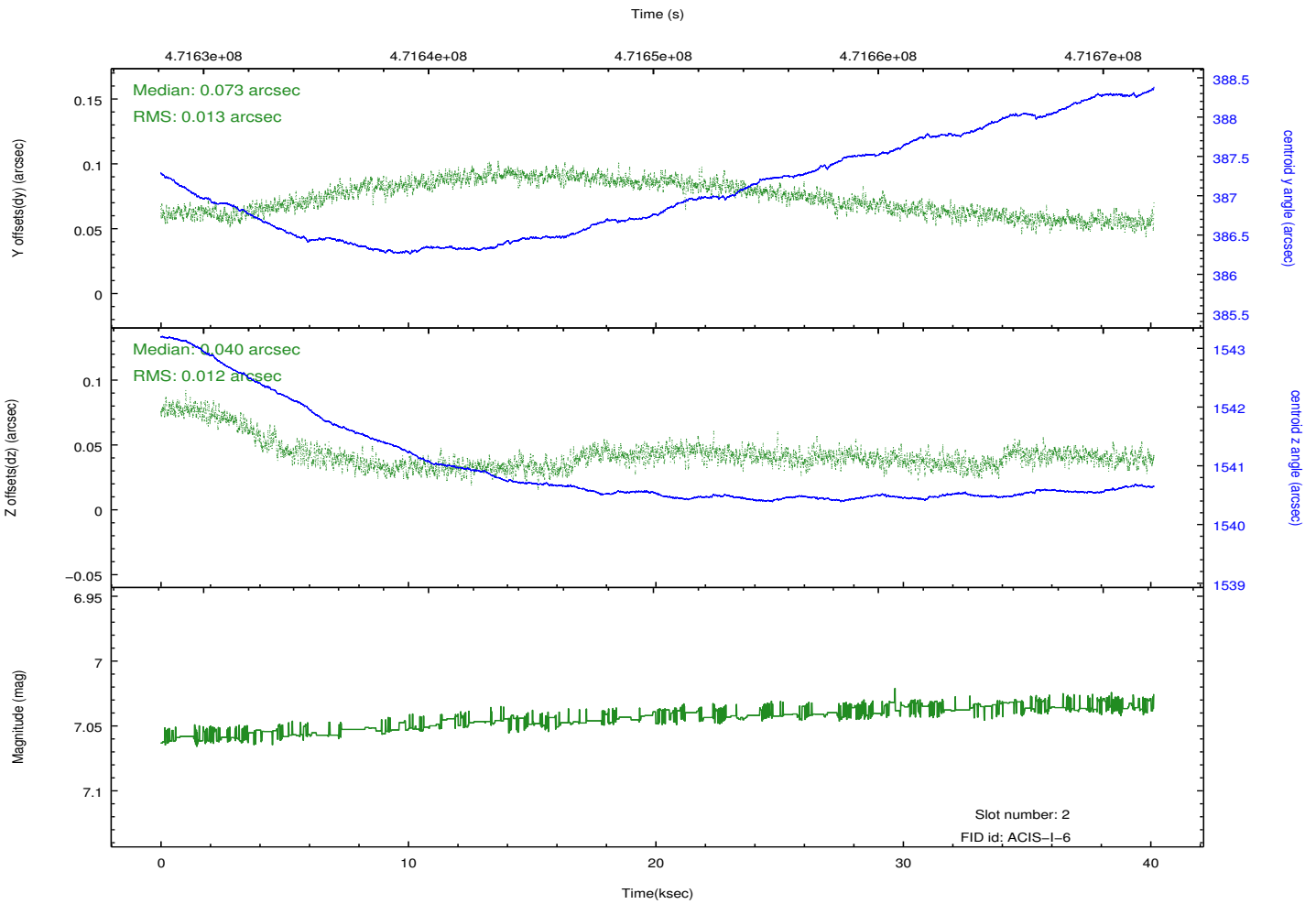
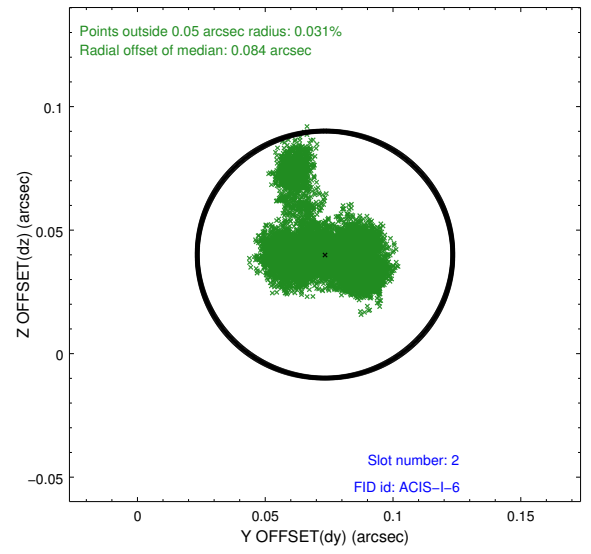
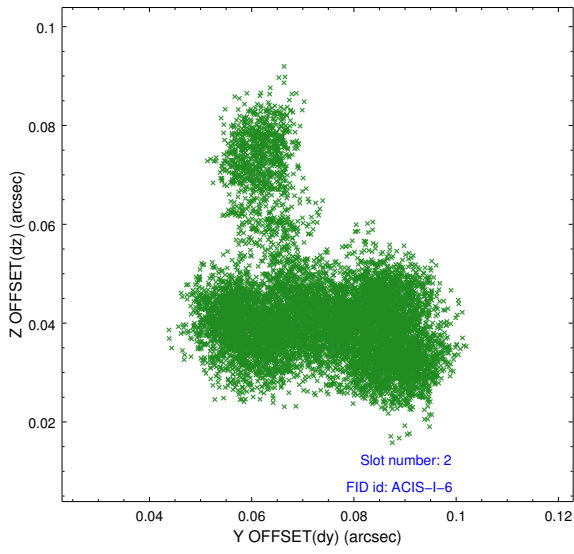
2.5.1 Slot 0



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	40.083000308275

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.