

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13136 - L2 Version 2
Chandra X-Ray Center

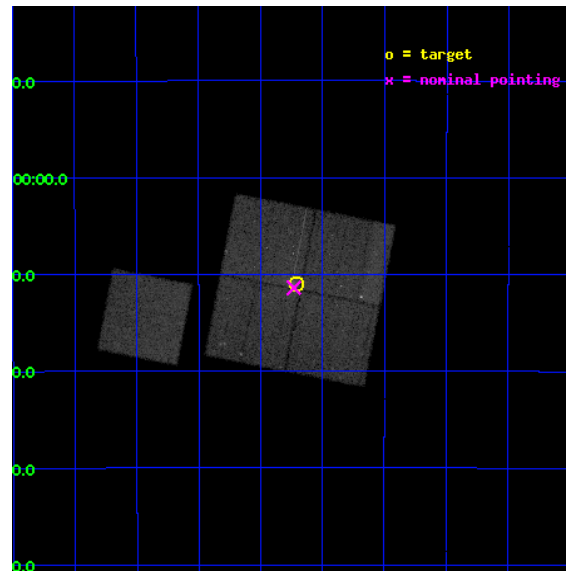
L2 Processing Date : Jul 5 2012

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1 Front

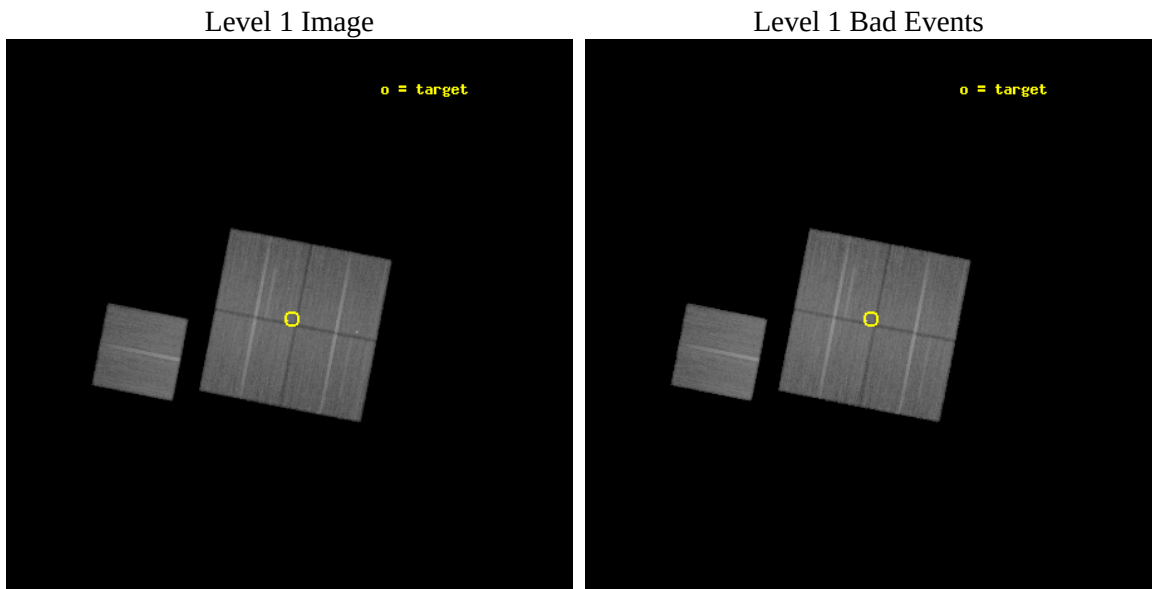
seq_num	801057	Sequence number
obs_id	13136	Observation id
title	Completing a sample of 100 X-ray brightest low-redshift galaxy clusters	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	RXJ1958.2-3011	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	299.553333	Observer's specified target RA [deg]
dec_targ	-30.182944	Observer's specified target Dec [deg]
ra_nom	299.55776413786	Nominal RA [deg]
dec_nom	-30.190063105492	Nominal Dec [deg]
roll_nom	281.04462809053	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40052.000308037	Sum of GTIs [s]
livetime	39528.691438159	Livetime [s]
ontime0	40052.000308037	Sum of GTIs [s]
ontime1	40045.718347251	Sum of GTIs [s]
ontime2	40052.000308037	Sum of GTIs [s]
ontime3	40052.000308037	Sum of GTIs [s]
ontime6	40052.000308037	Sum of GTIs [s]
l2events	151283	Number of level 2 events



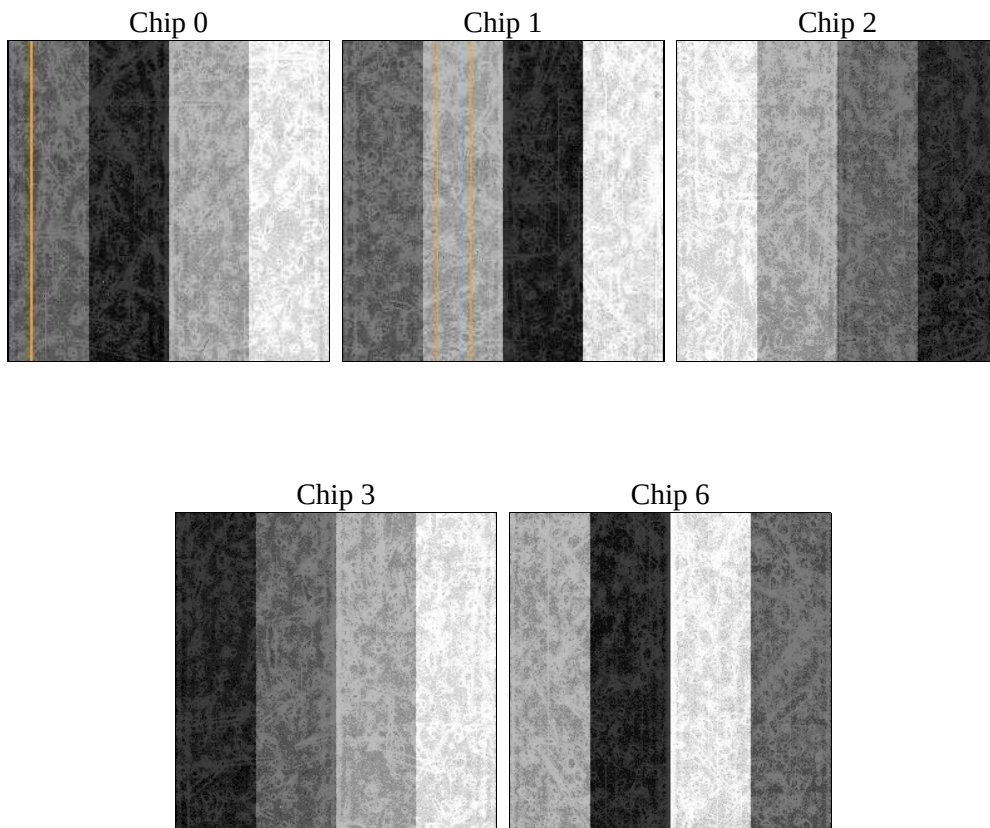
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	40052.000308037	Sum of GTIs [s]
caldsver	4.5.0	 	ontime0	40052.000308037	Sum of GTIs [s]
date	2012-07-05T08:19:05	Date and time of file creation	ontime1	40045.718347251	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	40052.000308037	Sum of GTIs [s]
			ontime3	40052.000308037	Sum of GTIs [s]
			ontime6	40052.000308037	Sum of GTIs [s]
			l1events	1409654	Number of level 1 events

2.1.4 Events

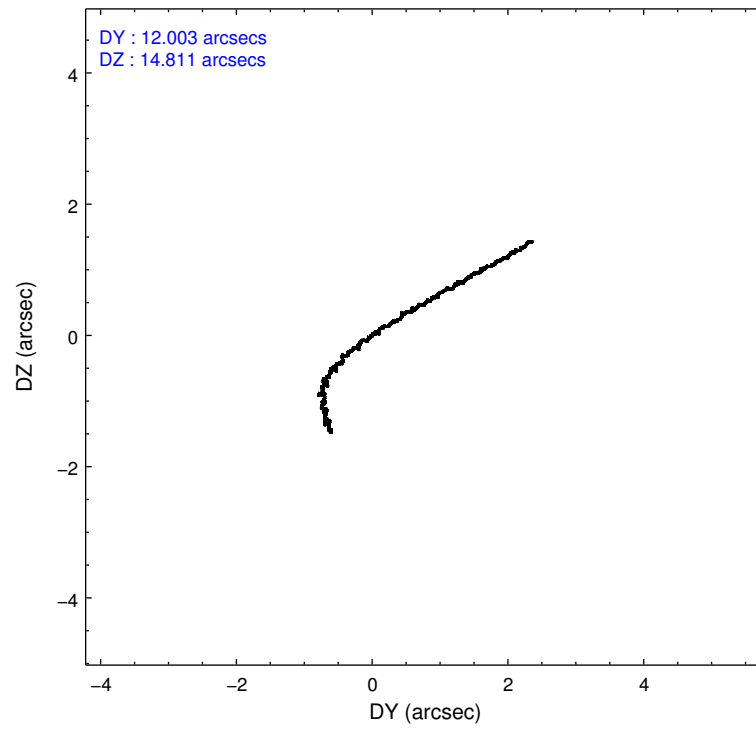
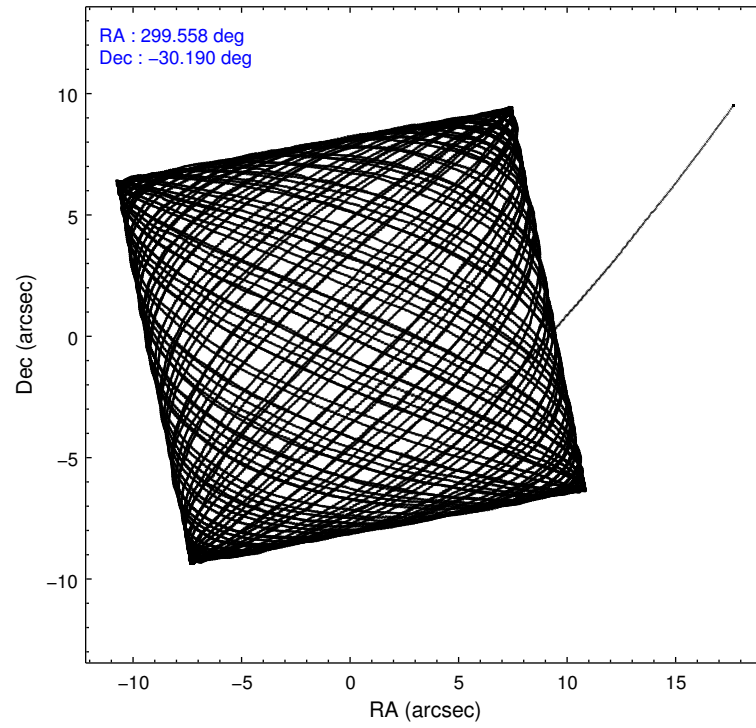
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	264716	267592	288886	300674	287786
rejected events	232108	230208	256536	257560	255588
rejected %	87%	86%	88%	85%	88%

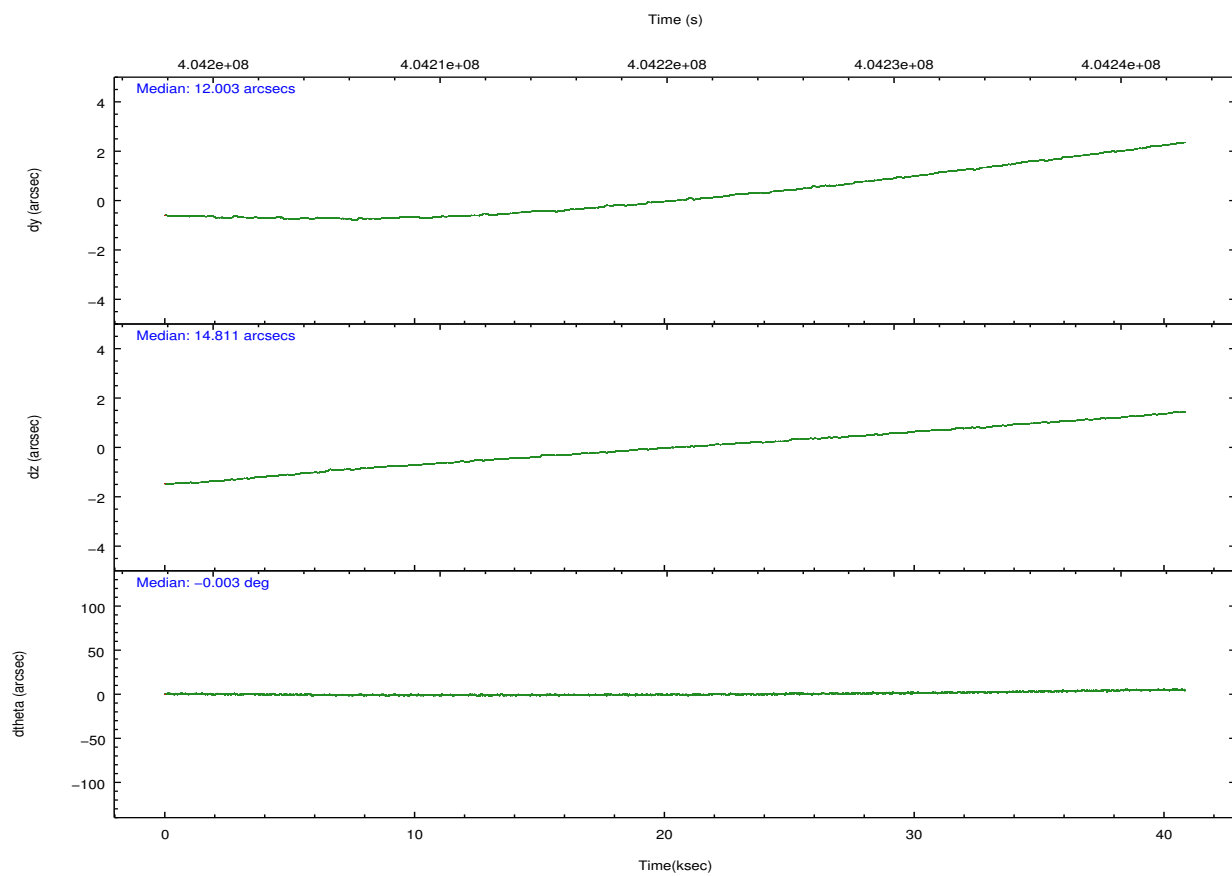
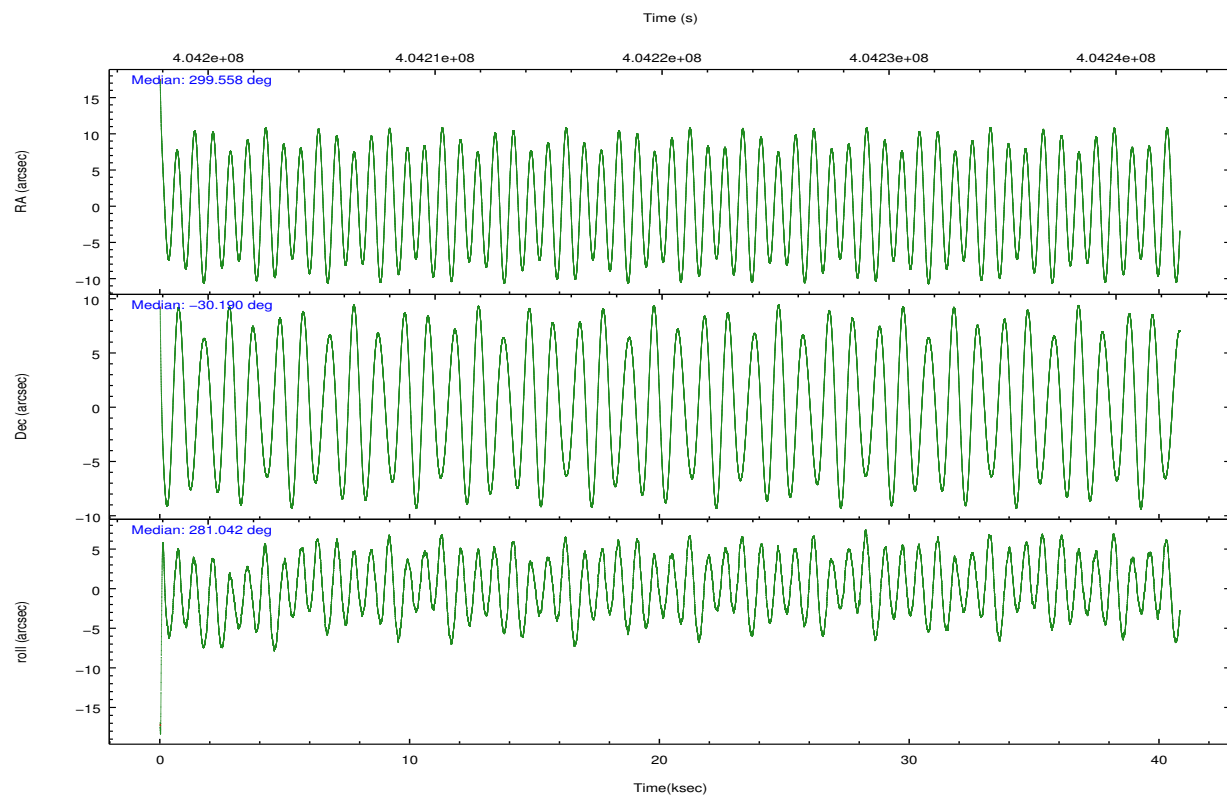
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	11693	14418	12124	17658	11568
	4%	5%	4%	5%	4%
grade 1 events	165	155	184	1759	146
	0%	0%	0%	0%	0%
grade 2 events	8069	8480	7721	8889	7177
	3%	3%	2%	2%	2%
grade 3 events	3468	3621	3207	4035	3351
	1%	1%	1%	1%	1%
grade 4 events	3095	3555	3306	4115	3234
	1%	1%	1%	1%	1%
grade 5 events	11893	12565	11337	15587	12778
	4%	4%	3%	5%	4%
grade 6 events	6288	7312	5997	8421	6871
	2%	2%	2%	2%	2%
grade 7 events	220045	217486	245010	240210	242661
	83%	81%	84%	79%	84%

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	299.536790	299.5577641378612	CCD I2 on	Y	Y
[deg] Pointing Dec	-30.169386	-30.19006310549237	CCD I3 on	Y	Y
[deg] Pointing Roll	280.825403	281.0446280905344	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	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	404200776.184000	404199053.24935	CCD S5 on	N	N
Observation start date	2010-10-23T05:58:30	2010-10-23T05:30:53	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	404240776.184000	404241688.12654	On-chip summing requested	N	N
Observation end date	2010-10-23T17:05:10	2010-10-23T17:21:28	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



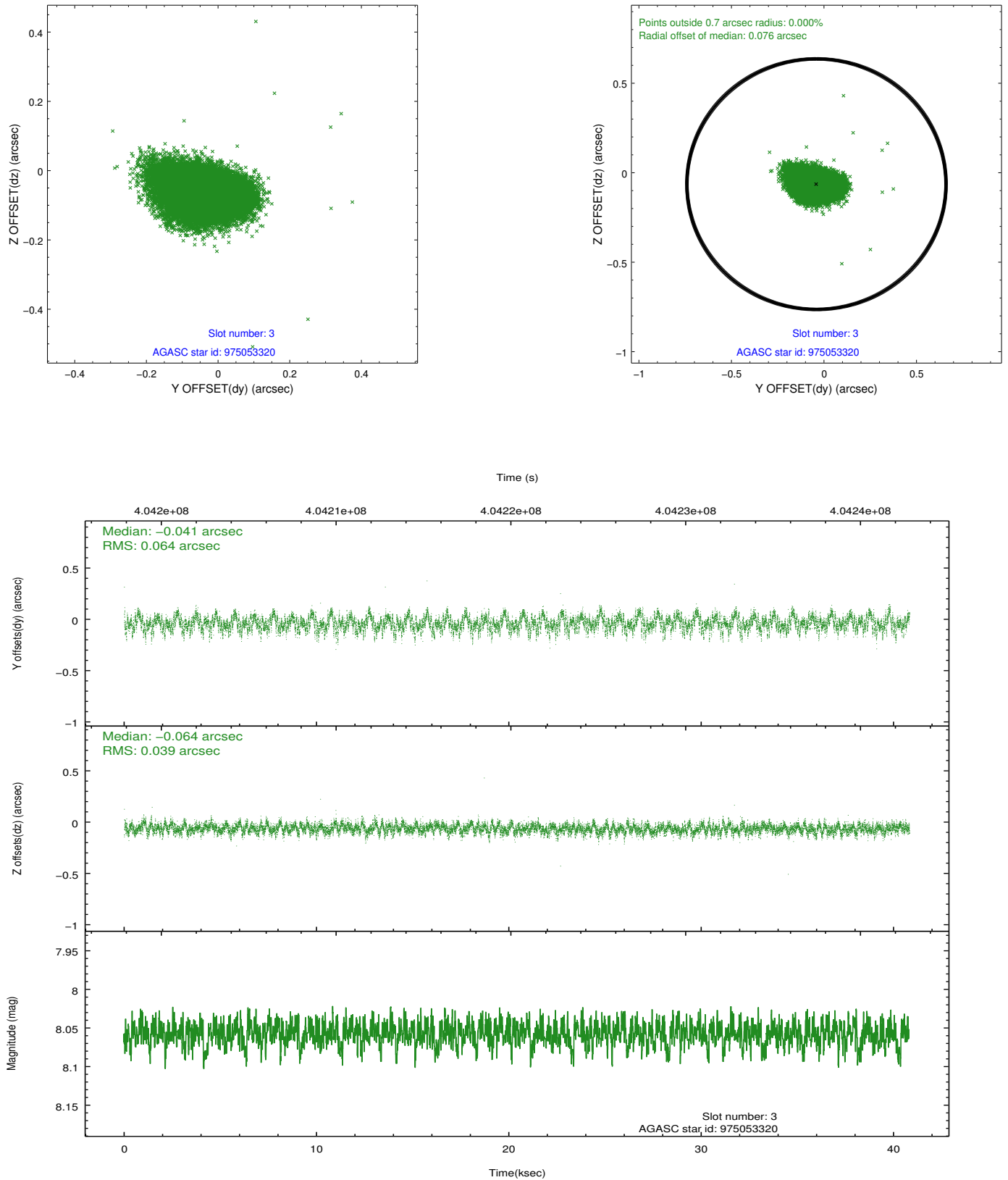


Slot Statistics

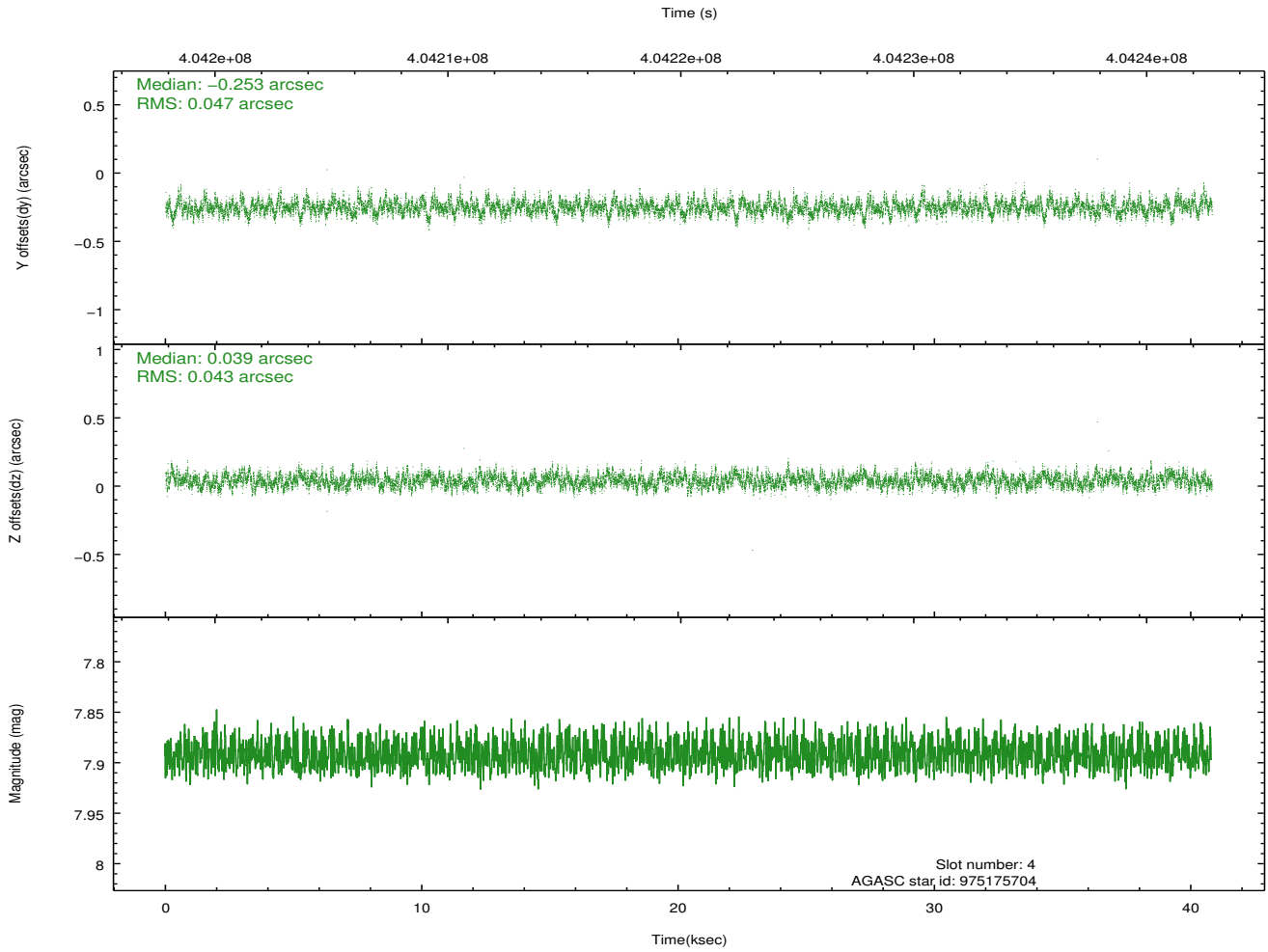
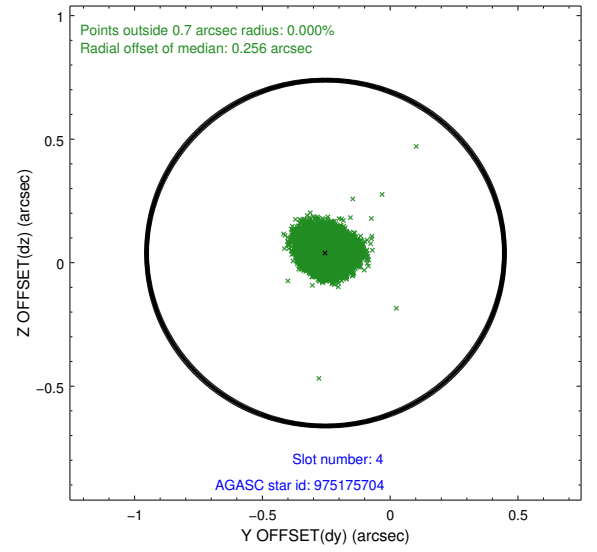
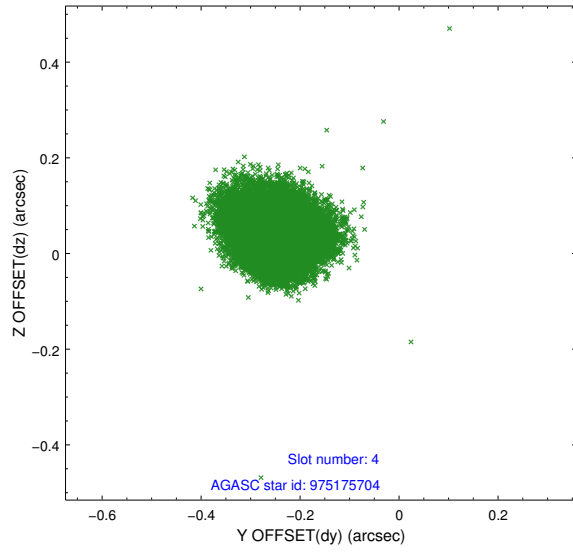
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.03	9958	0.029	0.003	0.036	0.072	0.000000	0.000000	927.29	-838.39
1	FID	ACIS-I-5	7.02	9957	-0.175	0.047	0.020	0.061	0.000000	0.000000	-1821.05	1059.12
2	FID	ACIS-I-6	7.03	9957	0.059	0.028	0.031	0.043	0.000000	0.000000	392.83	1703.64
3	GUIDE	975053320	8.06	19907	-0.041	-0.064	0.078	0.132	299.101471	-30.863129	2204.15	-1790.42
4	GUIDE	975175704	7.89	19910	-0.253	0.039	0.068	0.109	299.308981	-30.199799	-24.46	-716.73
5	GUIDE	975182976	9.13	19890	-0.032	0.022	0.090	0.149	299.258382	-30.724318	1802.00	-1221.44
6	GUIDE	975184016	9.33	19898	0.201	0.145	0.112	0.178	299.484966	-30.759541	2057.79	-556.50
7	GUIDE	975061008	6.94	19908	0.120	-0.143	0.069	0.108	299.204684	-30.570186	1226.35	-1281.86

2.4 Star Slots

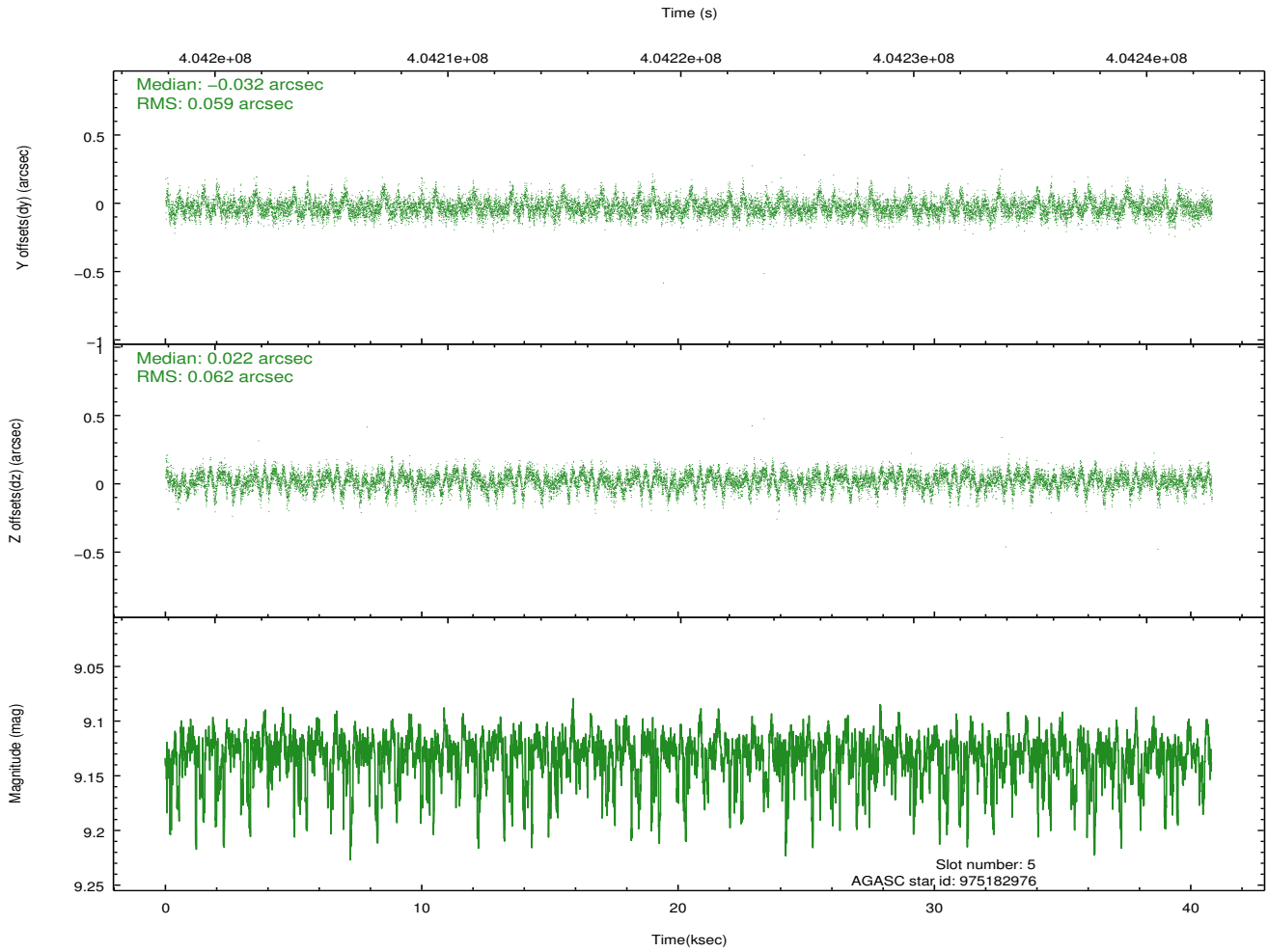
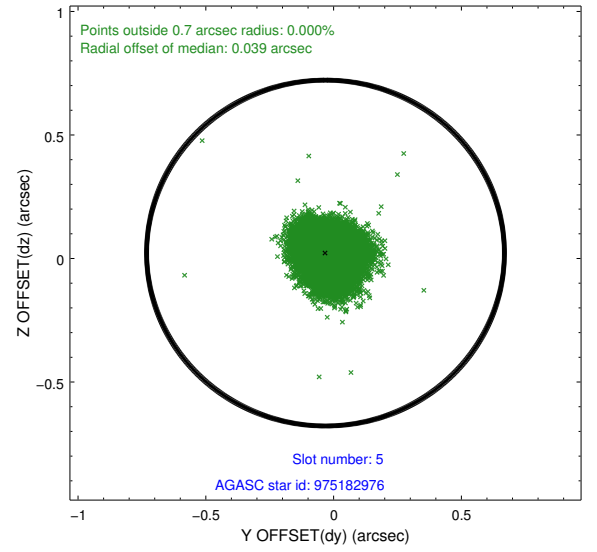
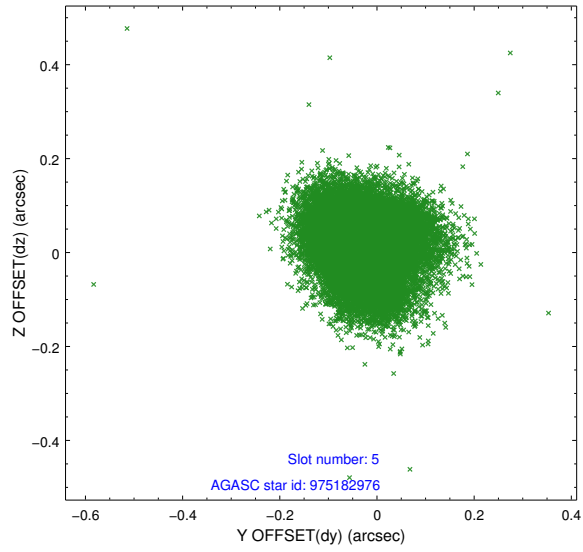
2.4.1 Slot 3



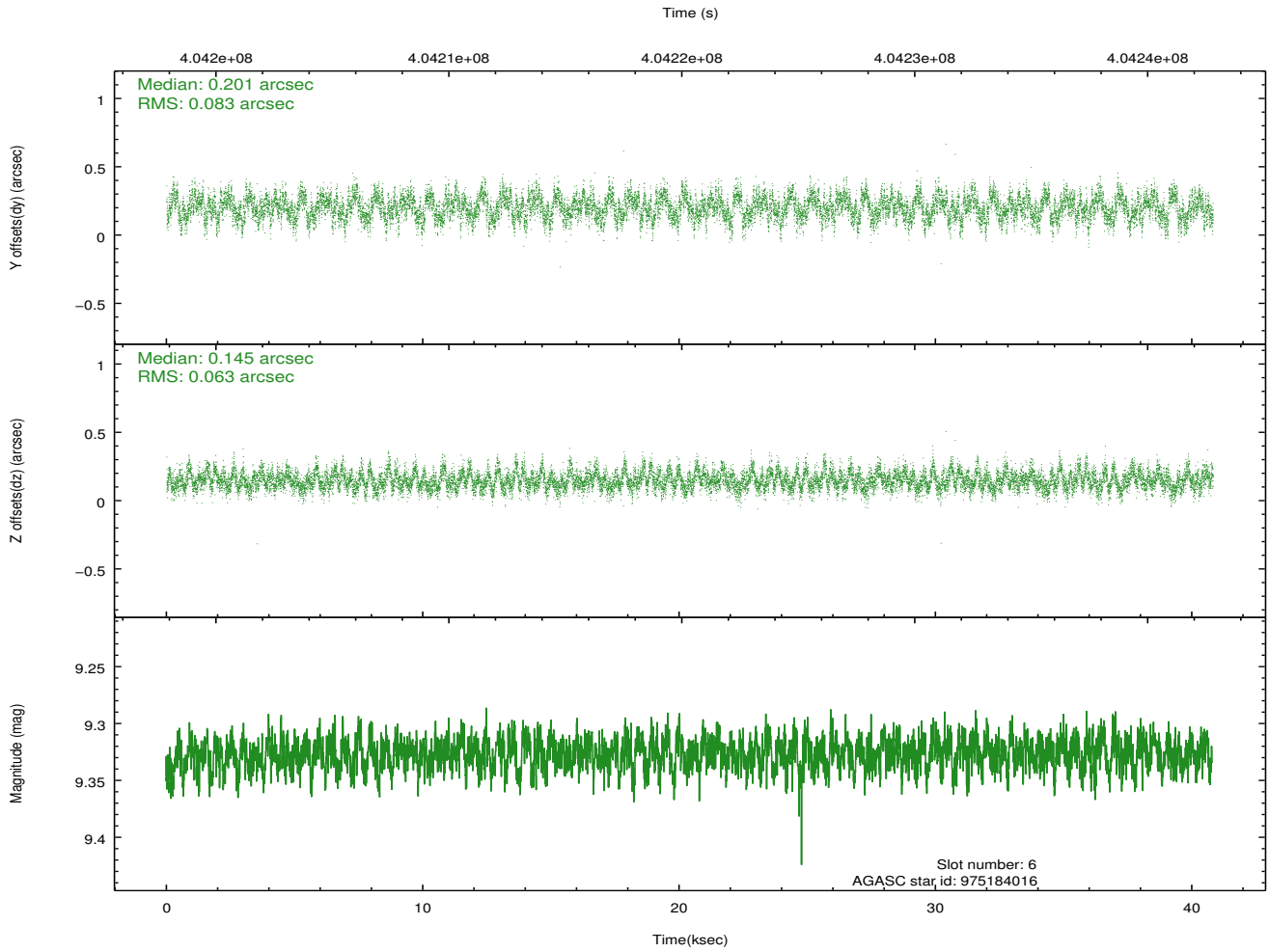
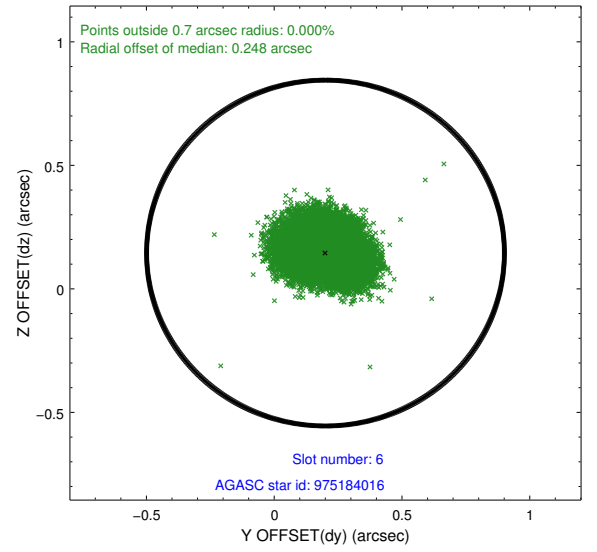
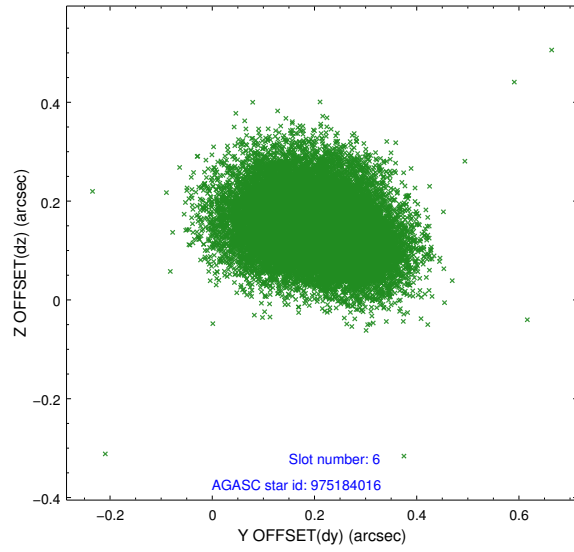
2.4.2 Slot 4



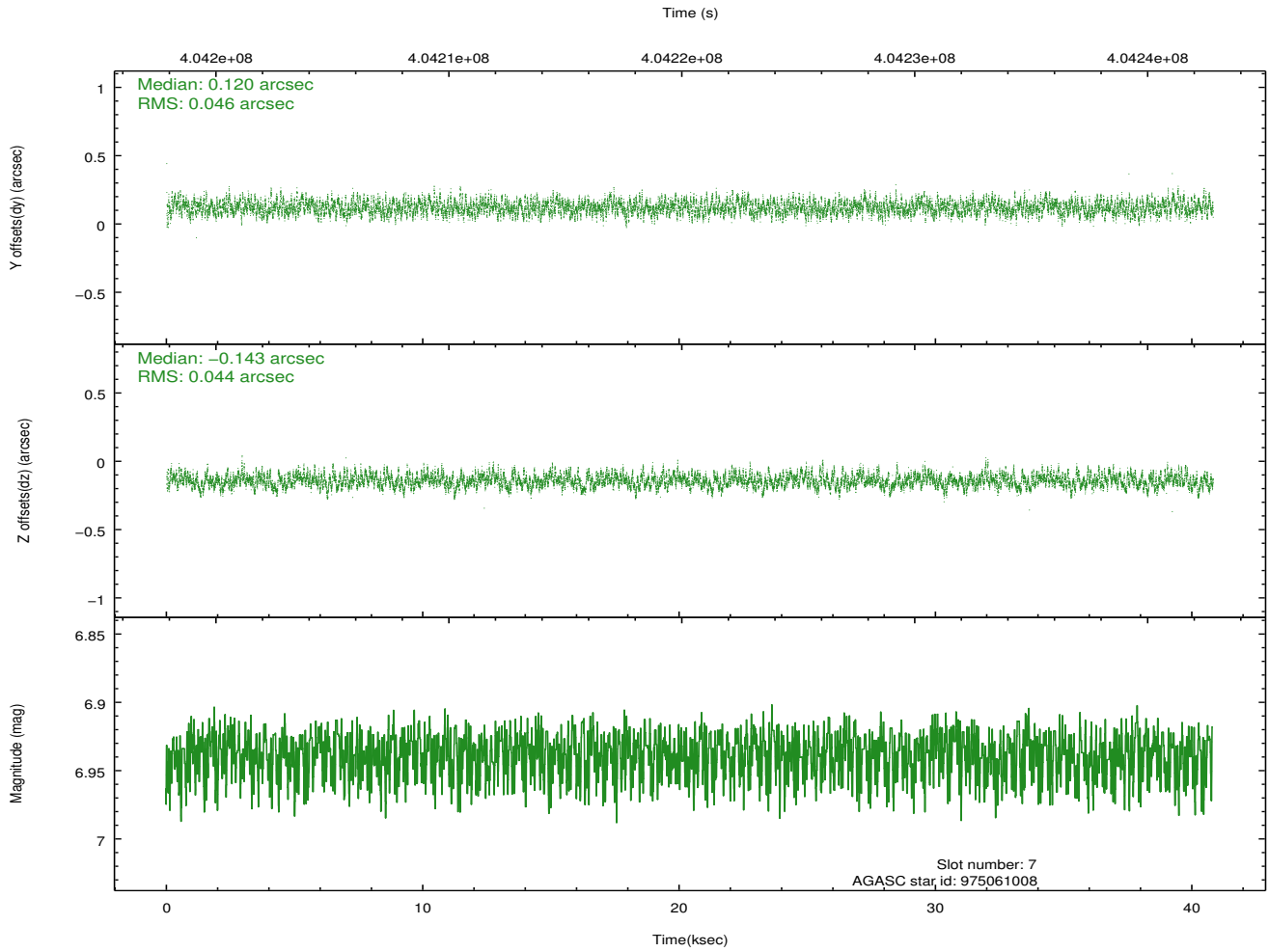
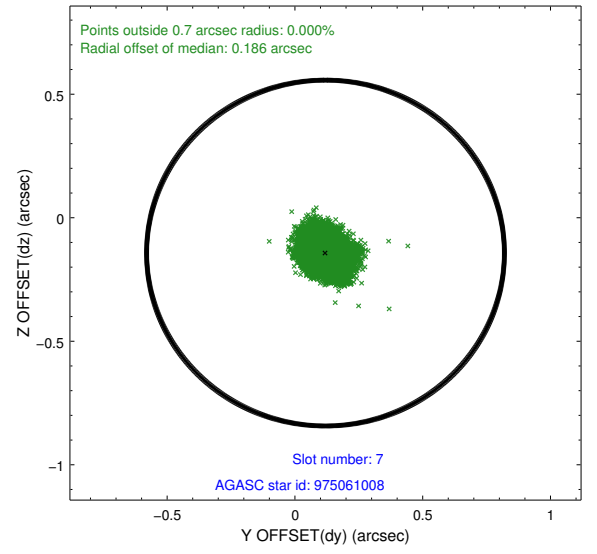
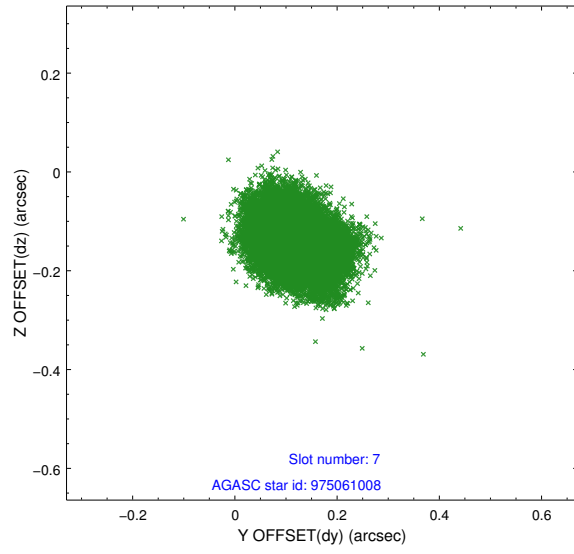
2.4.3 Slot 5



2.4.4 Slot 6

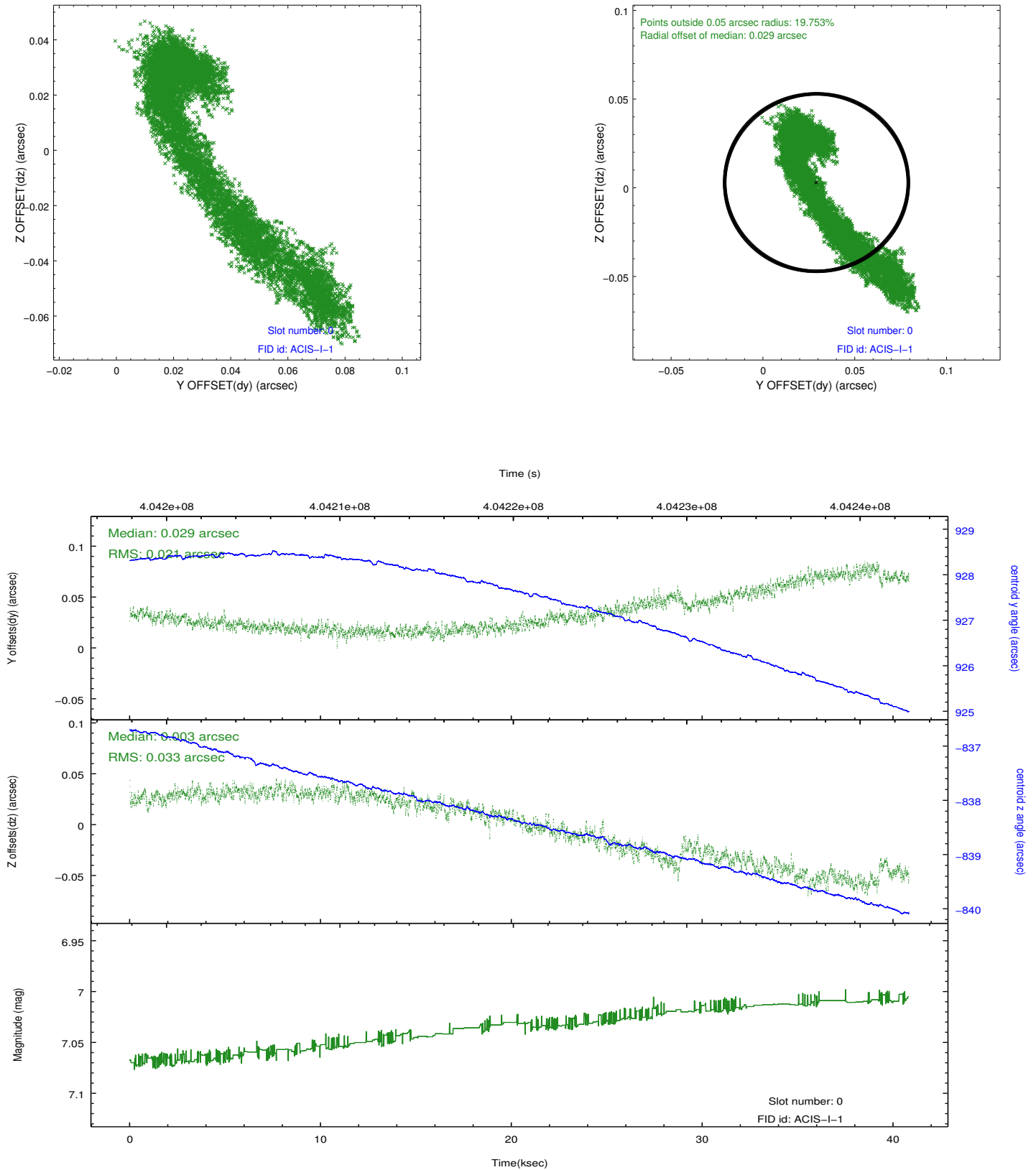


2.4.5 Slot 7

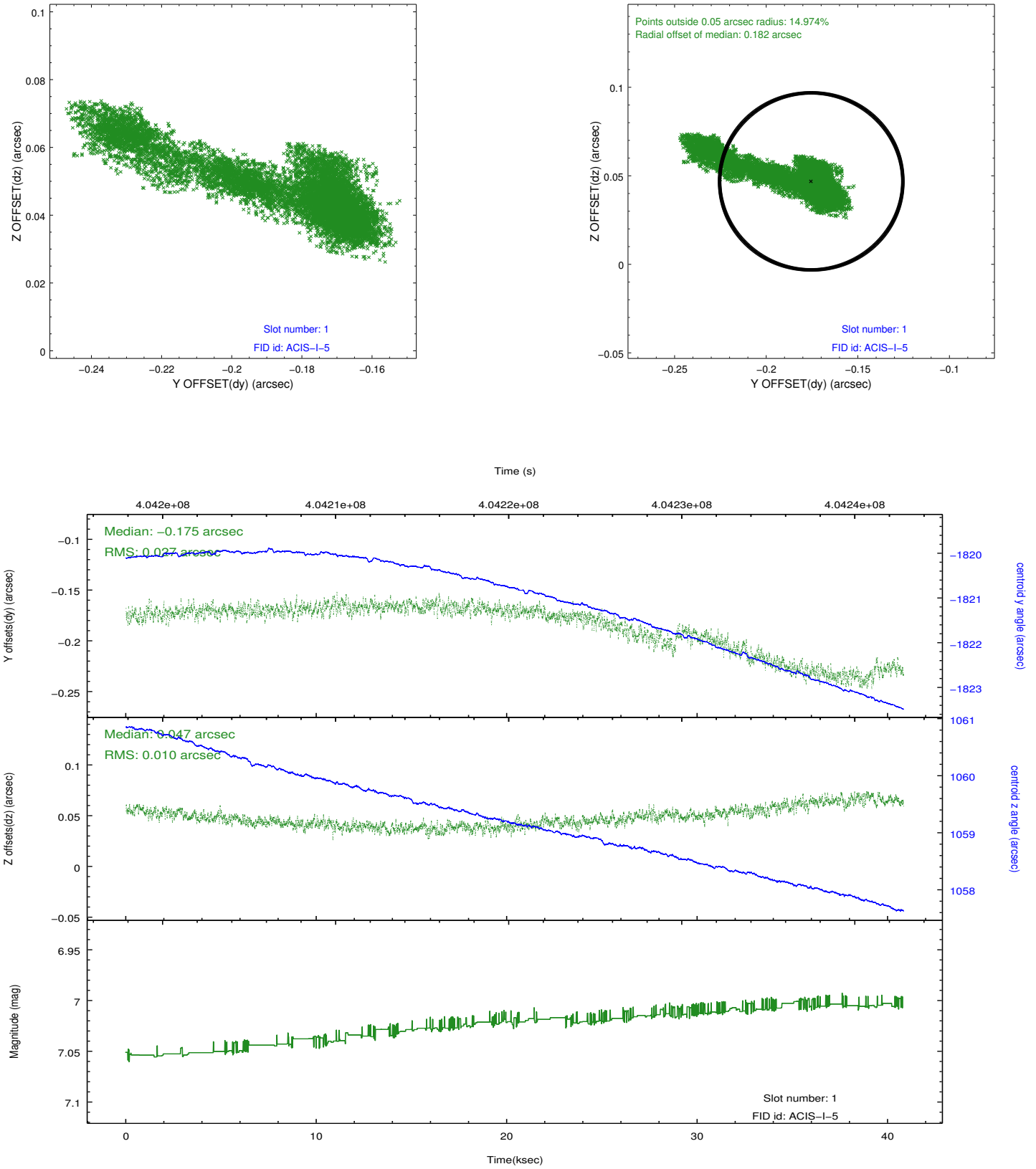


2.5 FID Slots

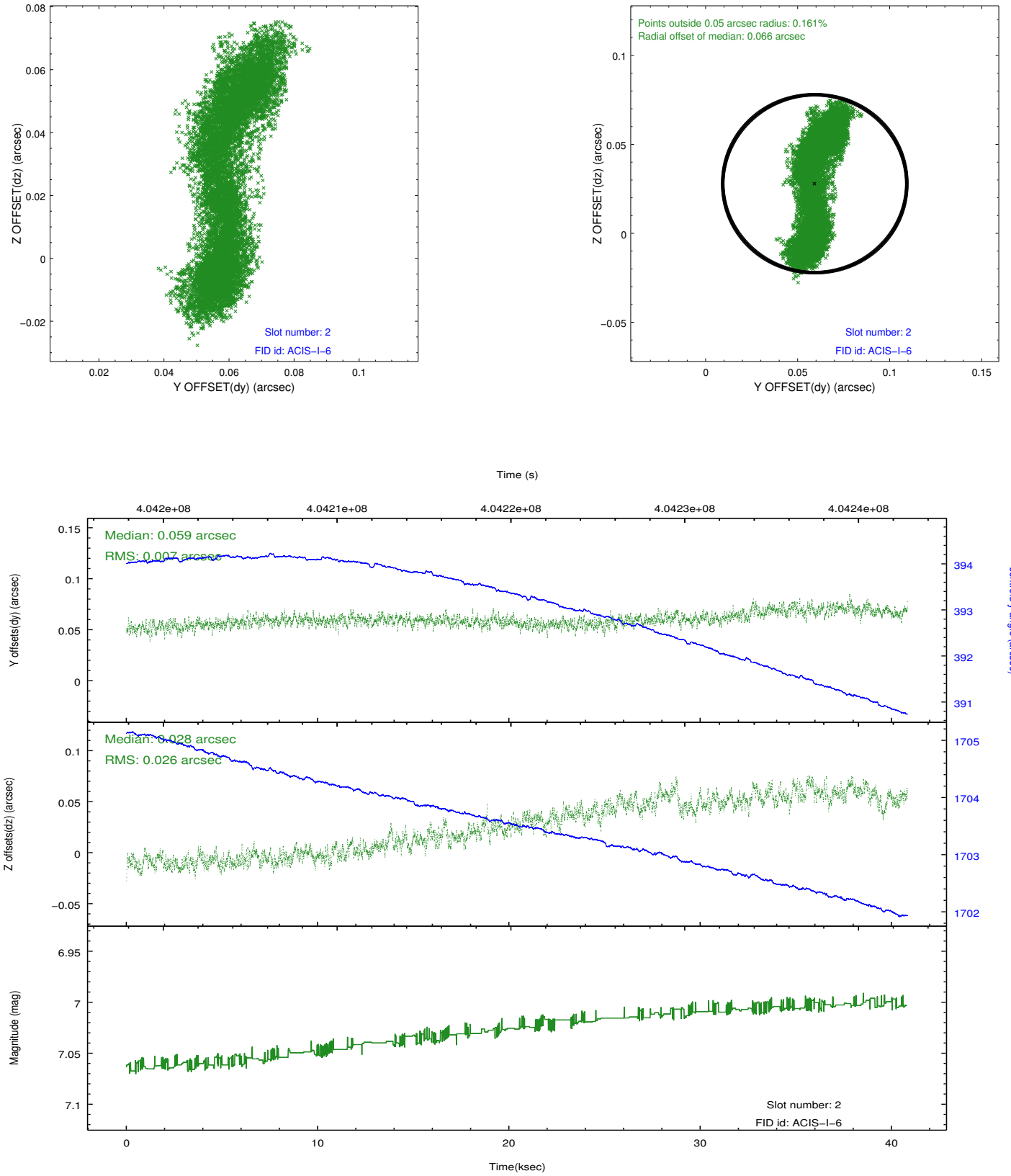
2.5.1 Slot 0



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)	2012.07.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.052000308037

A.2 Comments