

V&V Reference Report

L2 ASCDS Version : 10.2.2

Observation 15790 - L2 Version 3
Chandra X-Ray Center

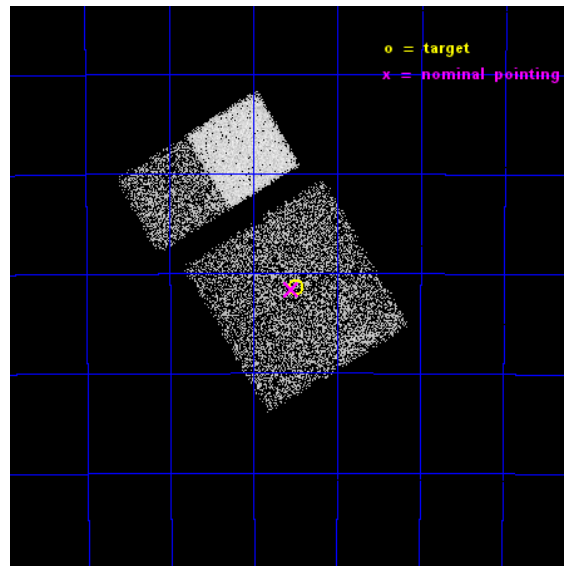
L2 Processing Date : Dec 11 2014

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1 Front

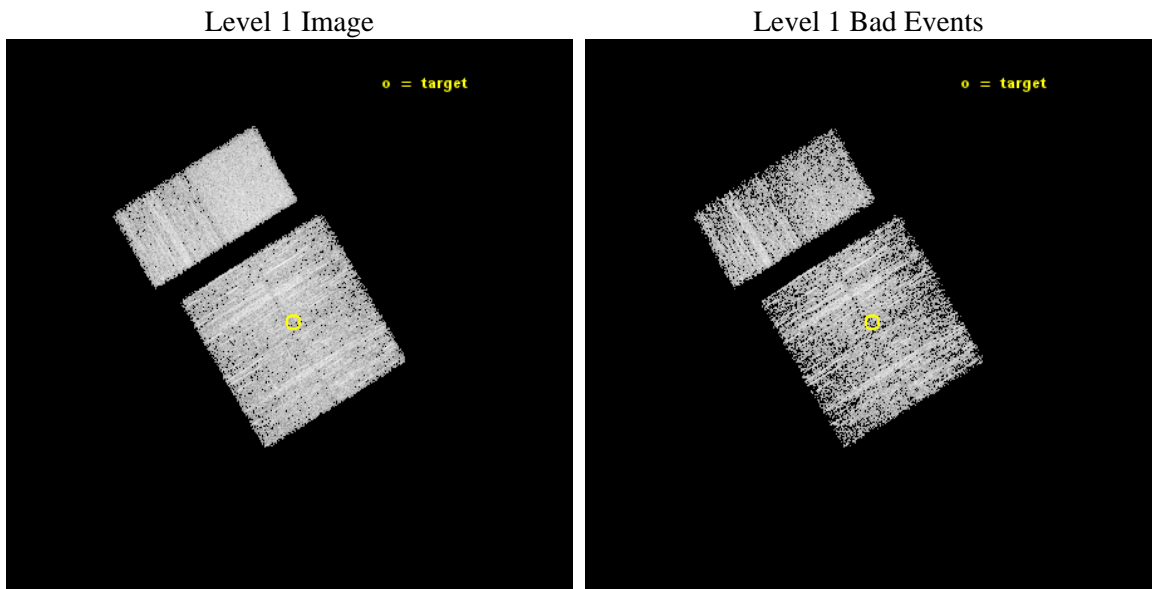
seq_num	401587	Sequence number
obs_id	15790	Observation id
title	The Nature of INTEGRAL Sources in the Galactic Plane	Proposal titl
observer	Dr. John Tomsick	Principal investigator
object	IGR J15335-5420	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	233.372917	Observer's specified target RA [deg]
dec_targ	-54.358	Observer's specified target Dec [deg]
ra_nom	233.38645447916	Nominal RA [deg]
dec_nom	-54.36026380257	Nominal Dec [deg]
roll_nom	328.99180799683	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4972.7999815345	Sum of GTIs [s]
livetime	4909.8313939076	Livetime [s]
ontime0	4972.7999815345	Sum of GTIs [s]
ontime1	4972.7999815345	Sum of GTIs [s]
ontime2	4972.7999815345	Sum of GTIs [s]
ontime3	4972.7999815345	Sum of GTIs [s]
ontime6	4972.7999815345	Sum of GTIs [s]
ontime7	4972.7999815345	Sum of GTIs [s]
l2events	26164	Number of level 2 events



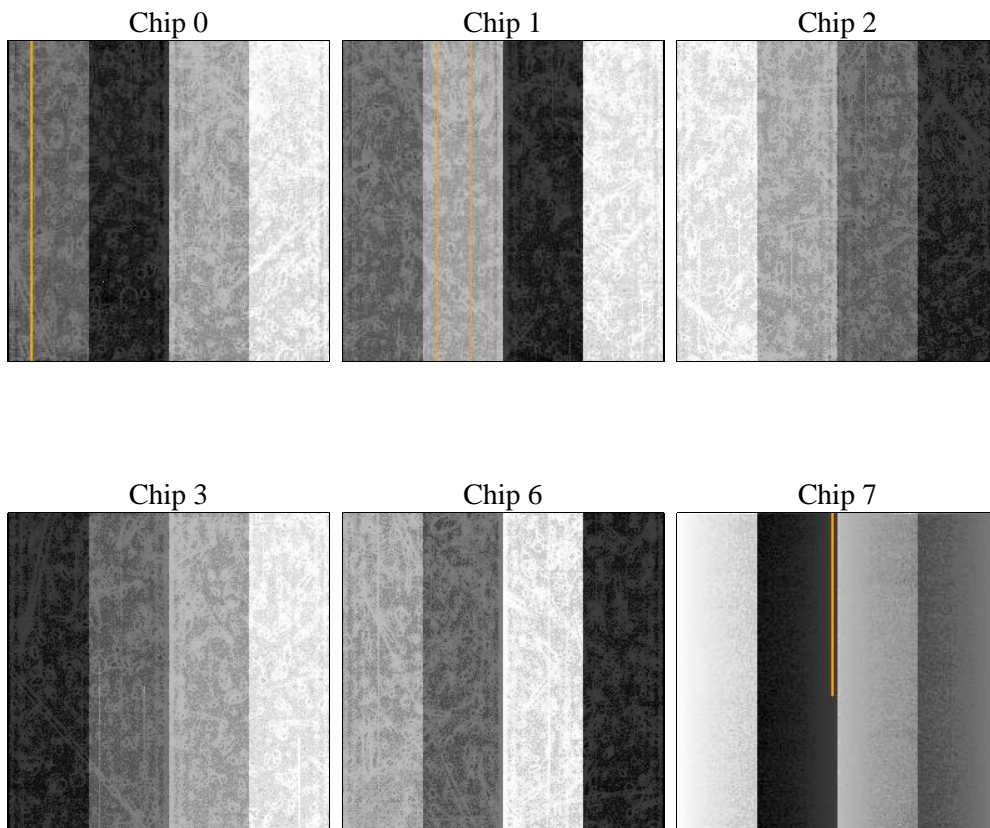
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	4972.7999815345	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	4972.7999815345	Sum of GTIs [s]
date	2014-12-12T01:38:04	Date and time of file creation	ontime1	4972.7999815345	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4972.7999815345	Sum of GTIs [s]
			ontime3	4972.7999815345	Sum of GTIs [s]
			ontime6	4972.7999815345	Sum of GTIs [s]
			ontime7	4972.7999815345	Sum of GTIs [s]
			l1events	147432	Number of level 1 events

2.1.4 Events

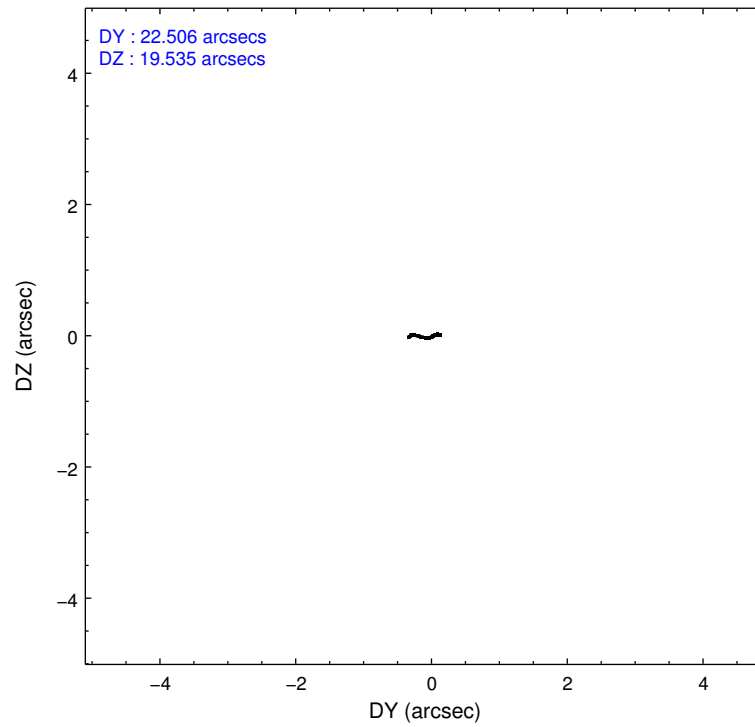
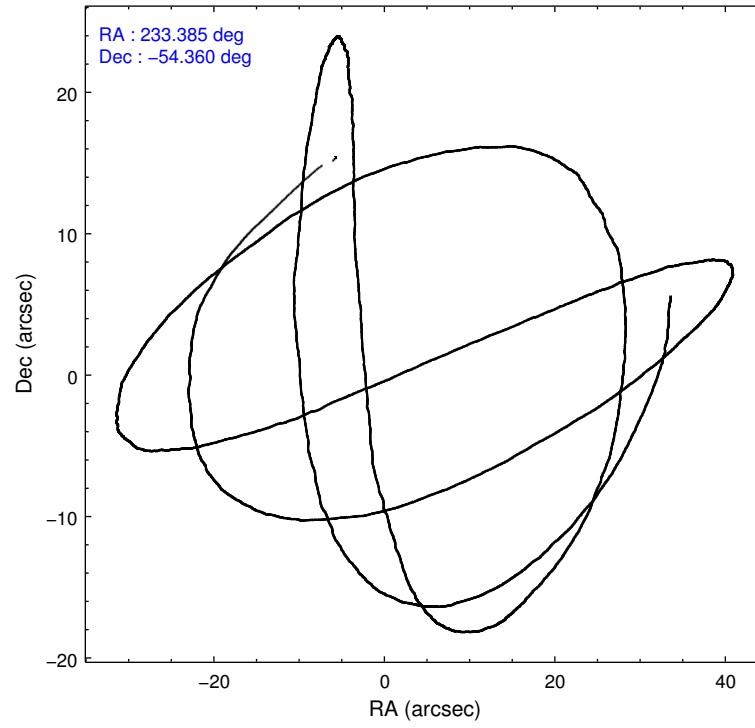
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	20449	22475	23498	24070	24209	32731	grade 0 events	1027	1133	980	984	943	1202
rejected events	17587	19264	20686	21369	21298	18538		5%	5%	4%	4%	3%	3%
rejected %	86%	85%	88%	88%	87%	56%	grade 1 events	14	14	18	14	15	41
								0%	0%	0%	0%	0%	0%
							grade 2 events	685	773	681	582	690	2883
								3%	3%	2%	2%	2%	8%
							grade 3 events	302	291	292	270	256	1254
								1%	1%	1%	1%	1%	3%
							grade 4 events	304	343	296	284	318	1186
								1%	1%	1%	1%	1%	3%
							grade 5 events	1114	1242	1005	1279	1331	3386
								5%	5%	4%	5%	5%	10%
							grade 6 events	545	675	565	582	705	7675
								2%	3%	2%	2%	2%	23%
							grade 7 events	16458	18004	19661	20075	19951	15104
								80%	80%	83%	83%	82%	46%

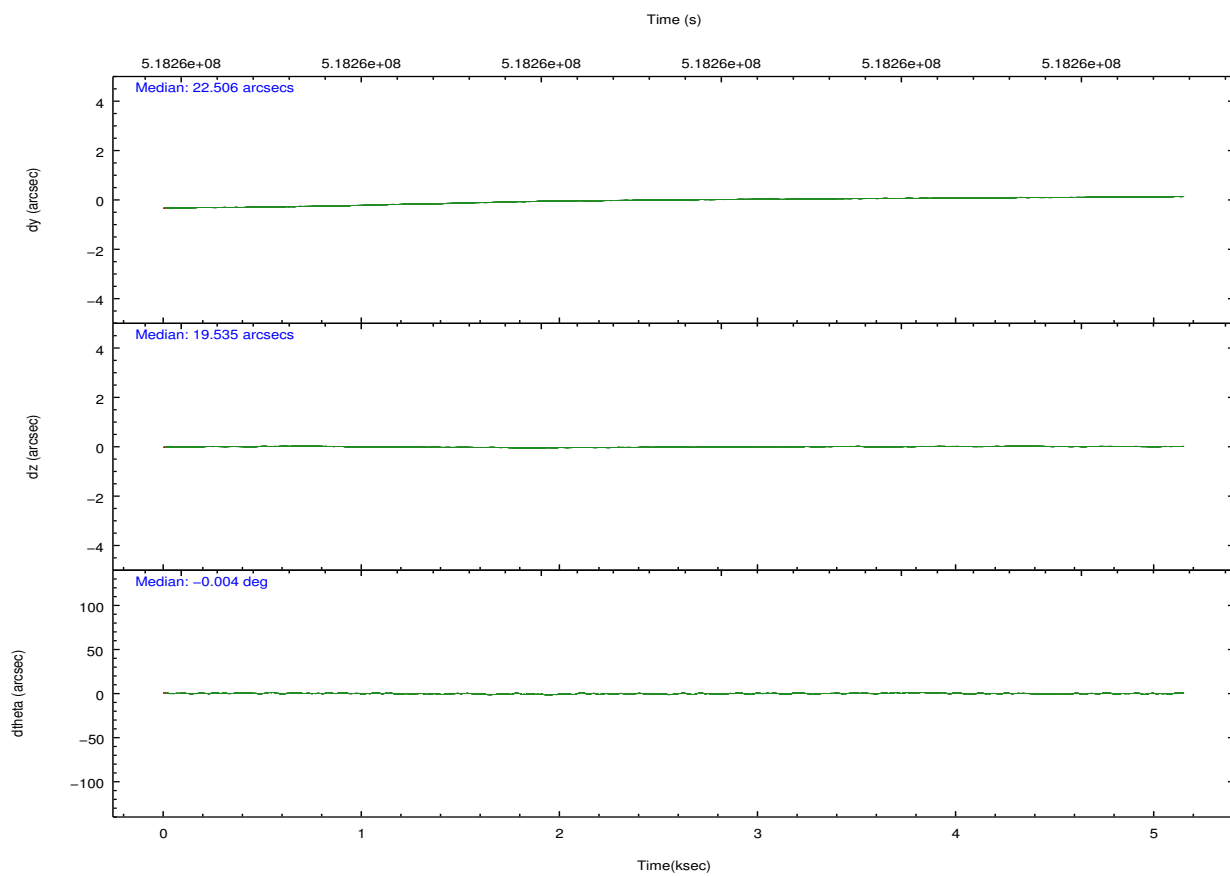
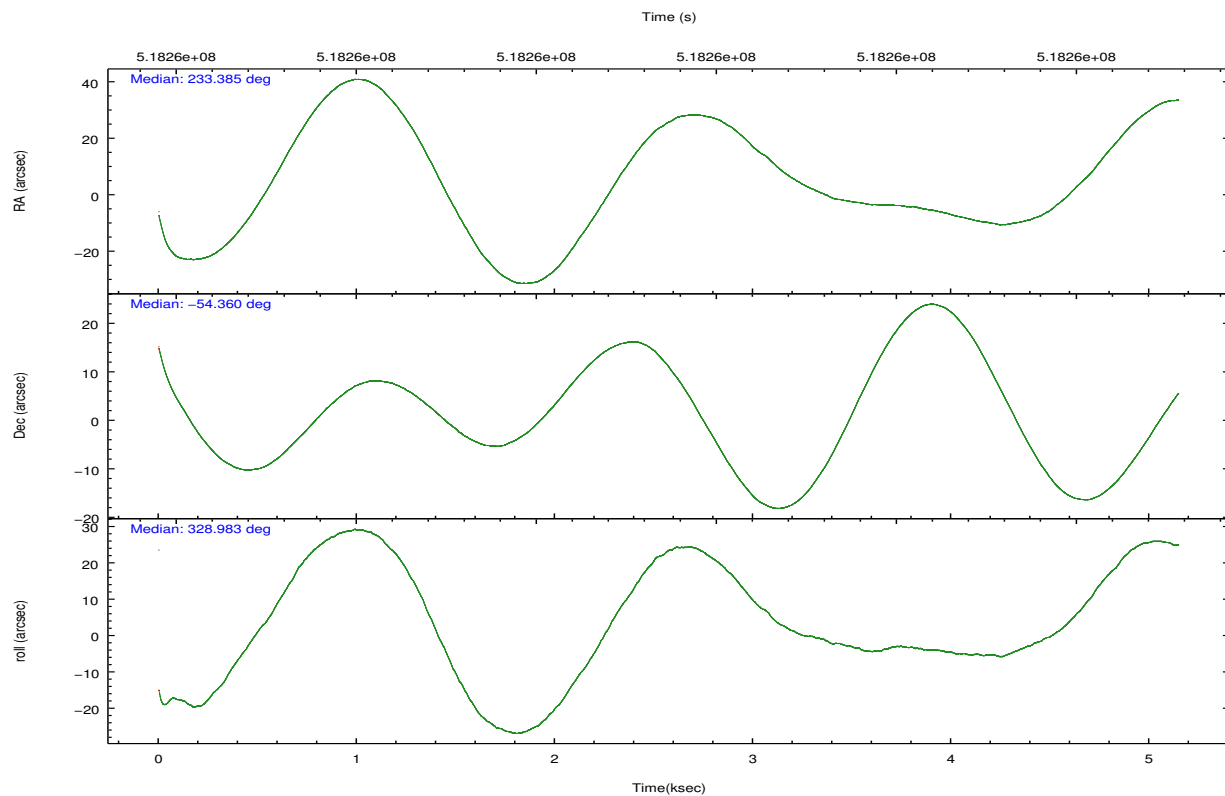
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	233.339216	233.3864544791644
[deg] Pointing Dec	-54.359531	-54.36026380257002
[deg] Pointing Roll	328.744735	328.9918079968292
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	518260311.184000	518259344.954
Observation start date	2014-06-04T09:10:44	2014-06-04T08:55:44
[s] Observation end time (MET)	518265311.184000	518266505.60439
Observation end date	2014-06-04T10:34:04	2014-06-04T10:55:05
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	O2	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



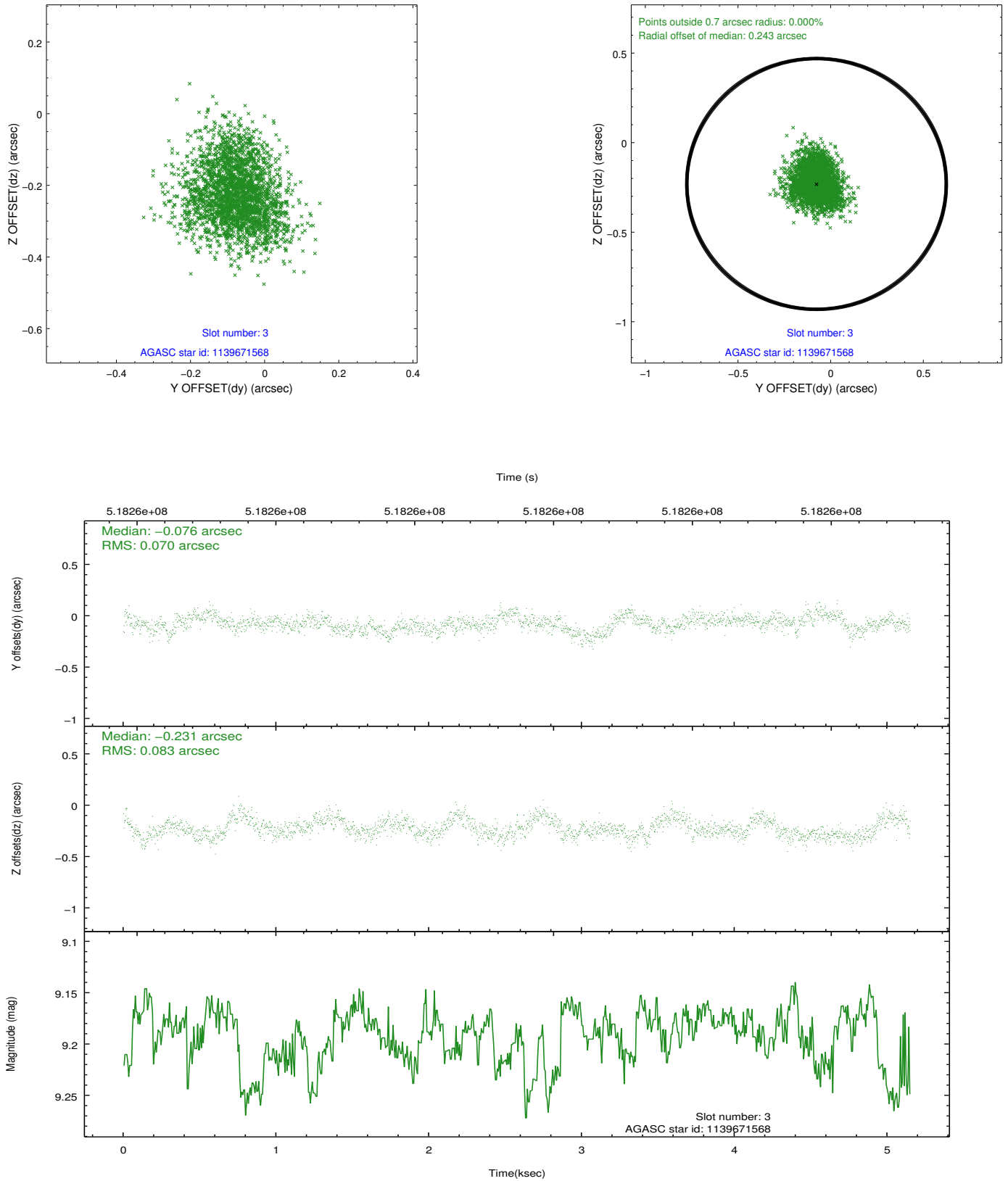


Slot Statistics

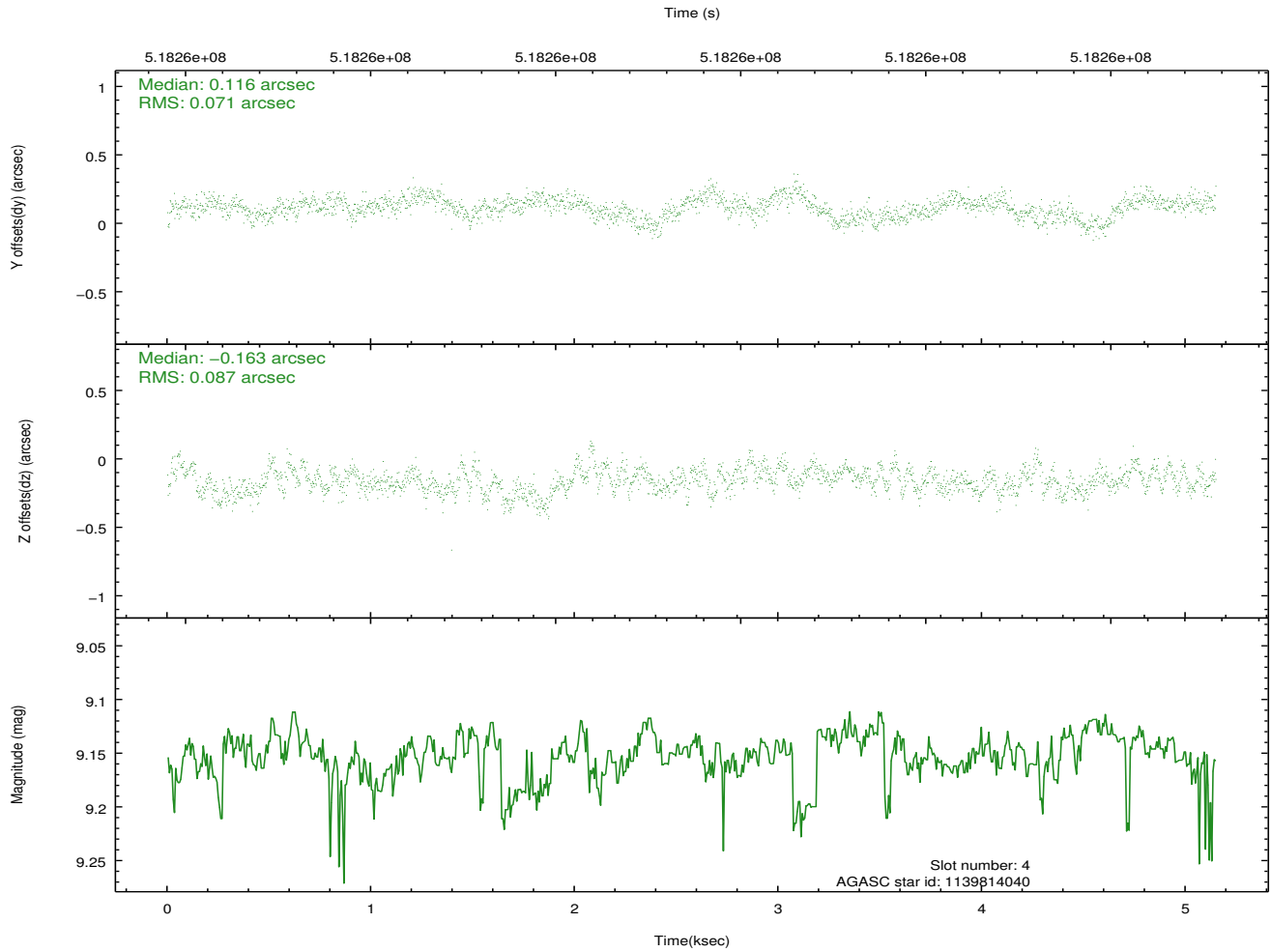
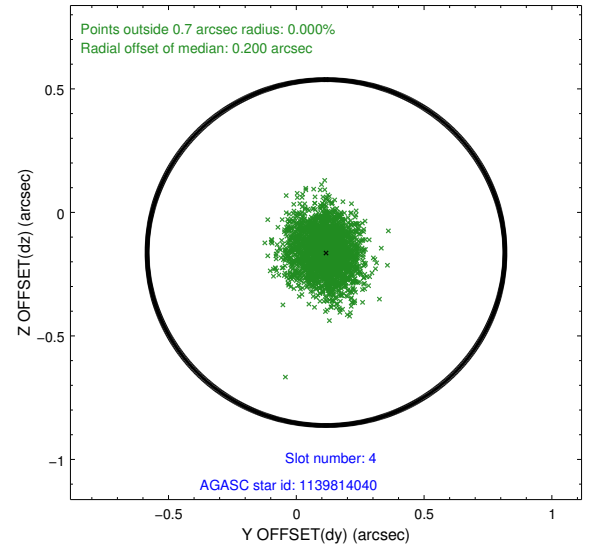
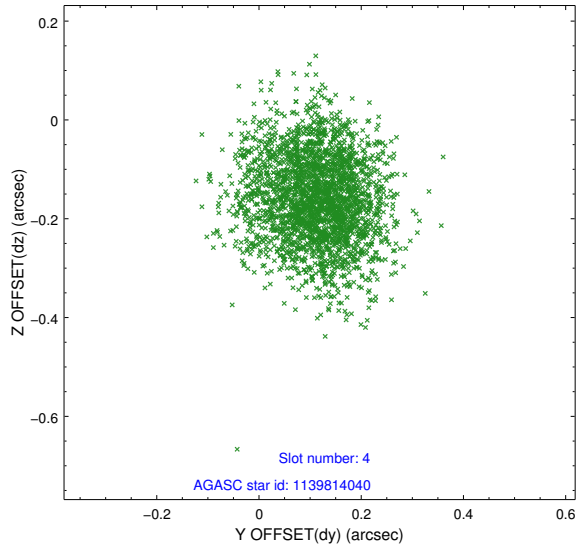
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.06	1256	0.038	0.016	0.008	0.016	0.000000	0.000000	916.87	-843.19
1	FID		ACIS-I-5	7.04	1256	-0.264	0.034	0.007	0.013	0.000000	0.000000	-1830.98	1053.60
2	FID		ACIS-I-6	7.05	1256	0.135	0.021	0.008	0.013	0.000000	0.000000	381.11	1699.52
3	GUIDE	used	1139671568	9.19	2511	-0.076	-0.231	0.115	0.187	233.154116	-53.624307	-1711.81	2057.96
4	GUIDE	used	1139814040	9.15	2508	0.116	-0.163	0.121	0.193	233.716853	-53.809554	-341.32	2109.06
5	GUIDE	used	1140207728	7.95	2511	-0.115	0.189	0.089	0.140	233.231634	-54.895295	809.96	-1762.17
6	GUIDE	used	1140204728	8.36	2512	0.227	0.419	0.089	0.148	232.294195	-54.779433	-1061.70	-2430.97
7	GUIDE	used	1140332392	7.40	2511	-0.150	-0.221	0.080	0.131	234.509055	-54.522026	2402.26	750.82

2.4 Star Slots

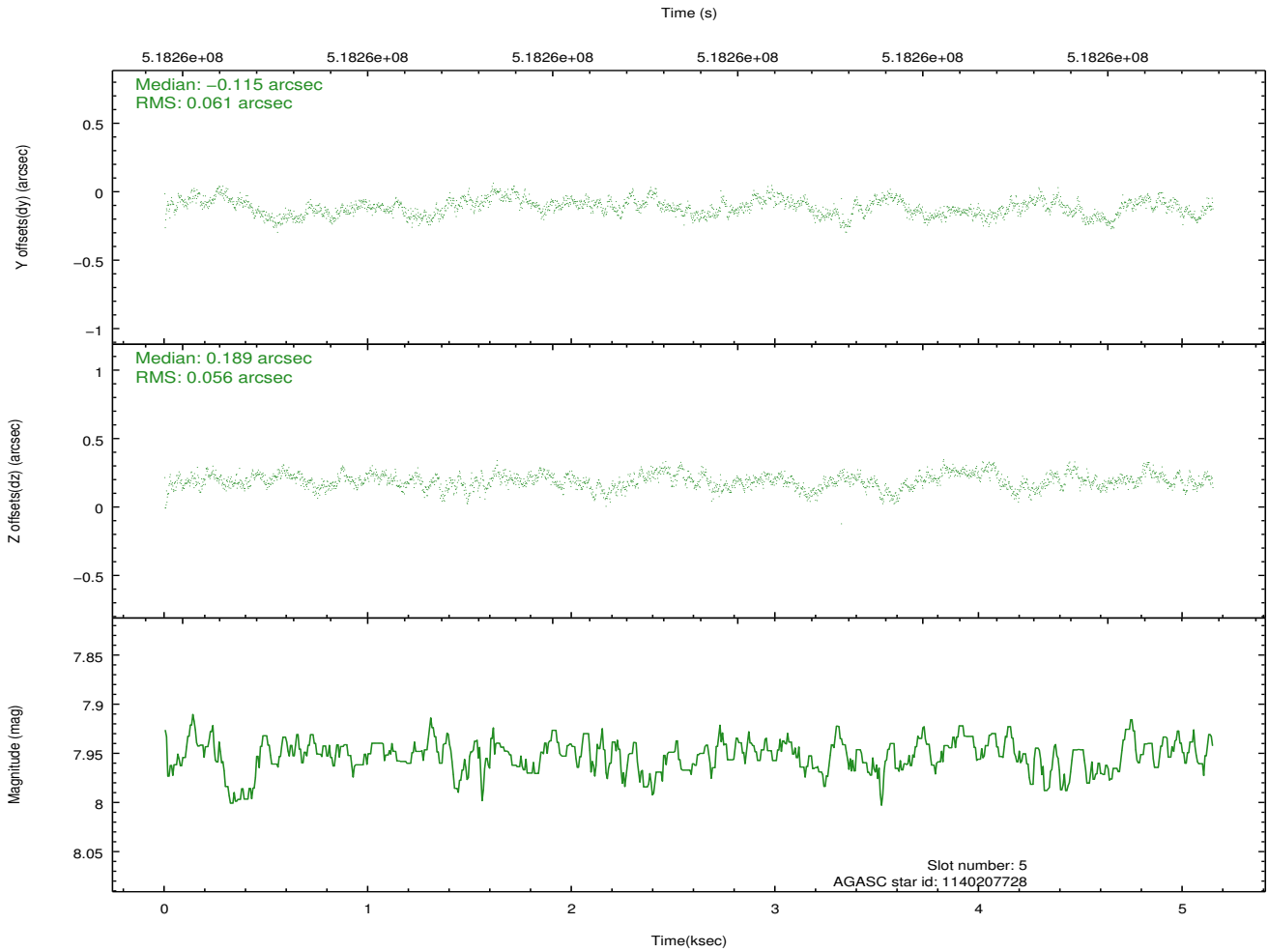
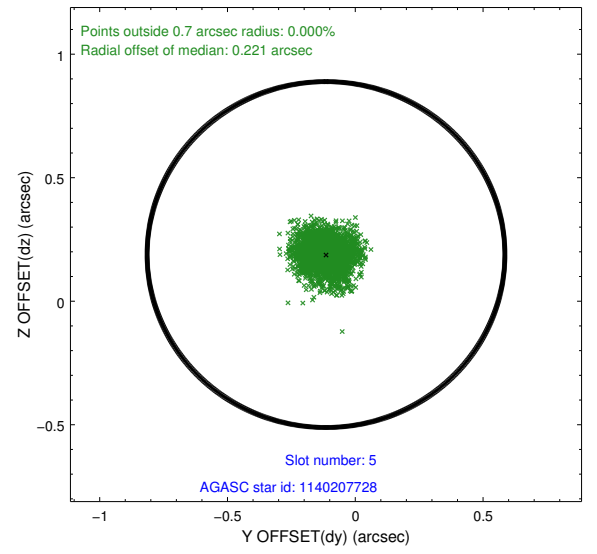
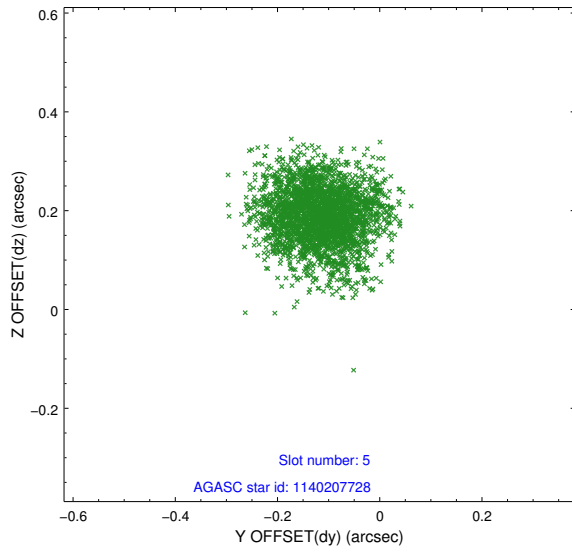
2.4.1 Slot 3



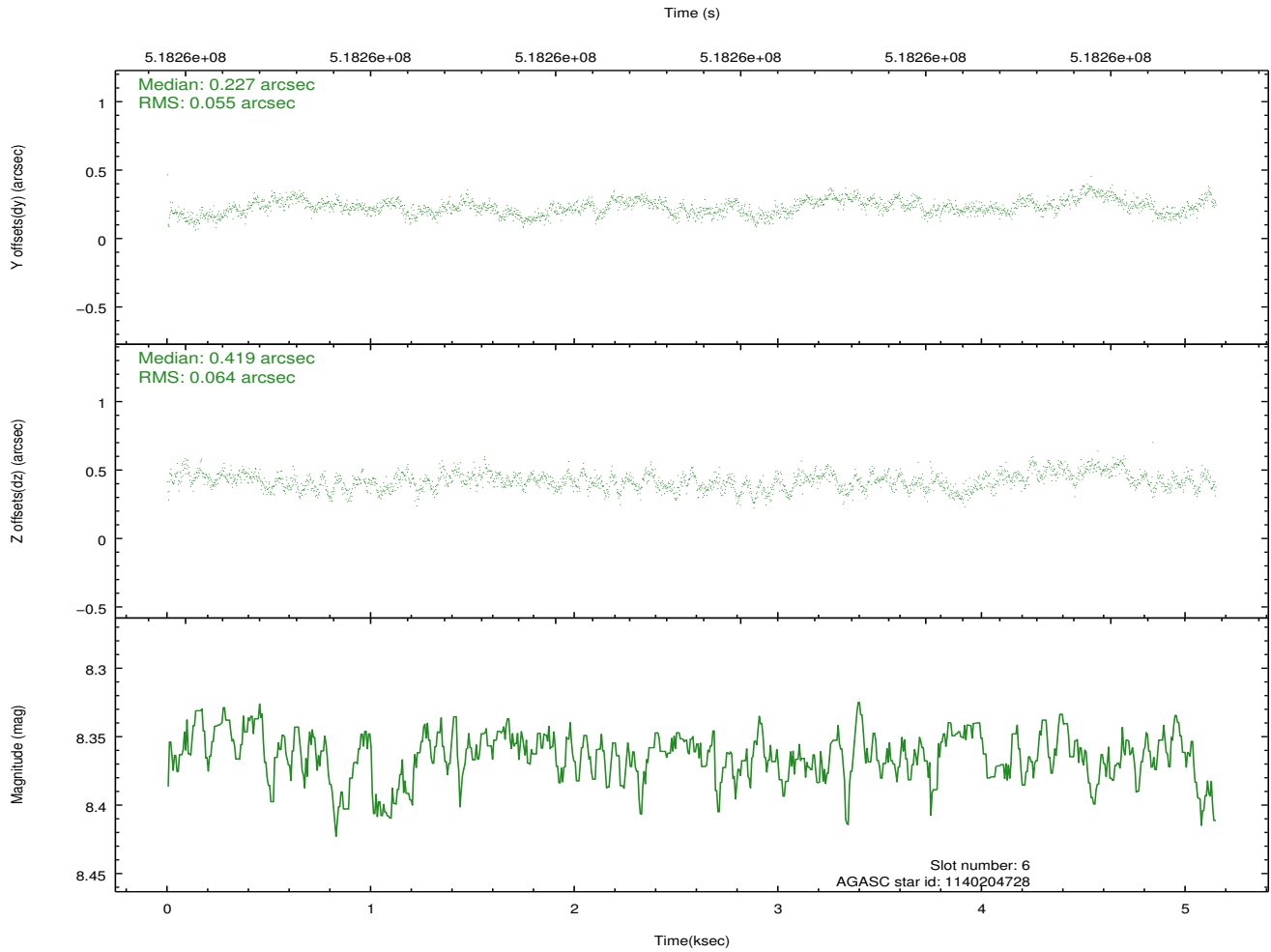
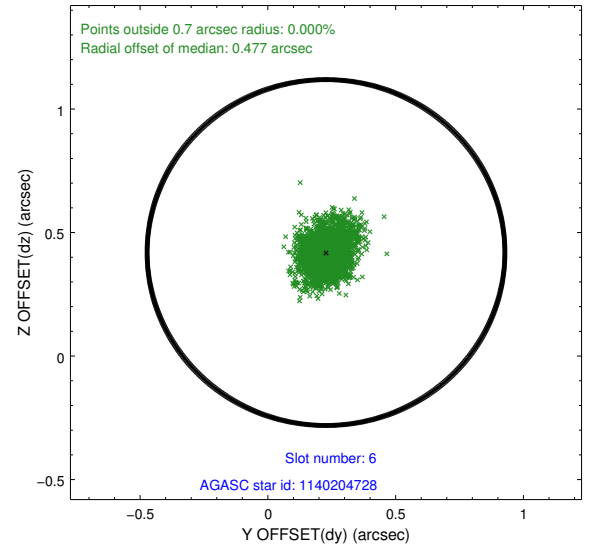
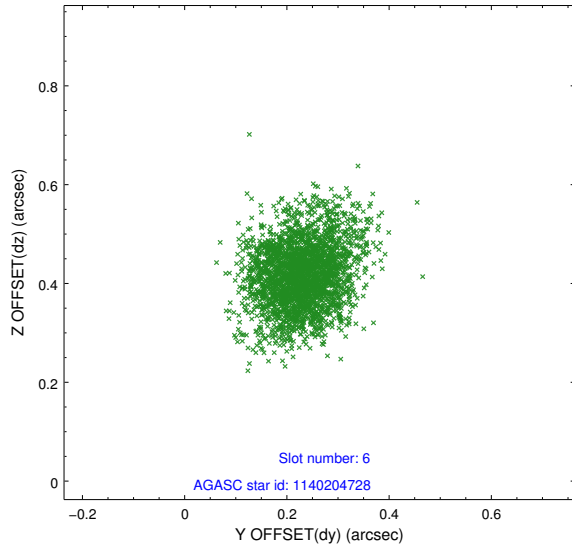
2.4.2 Slot 4



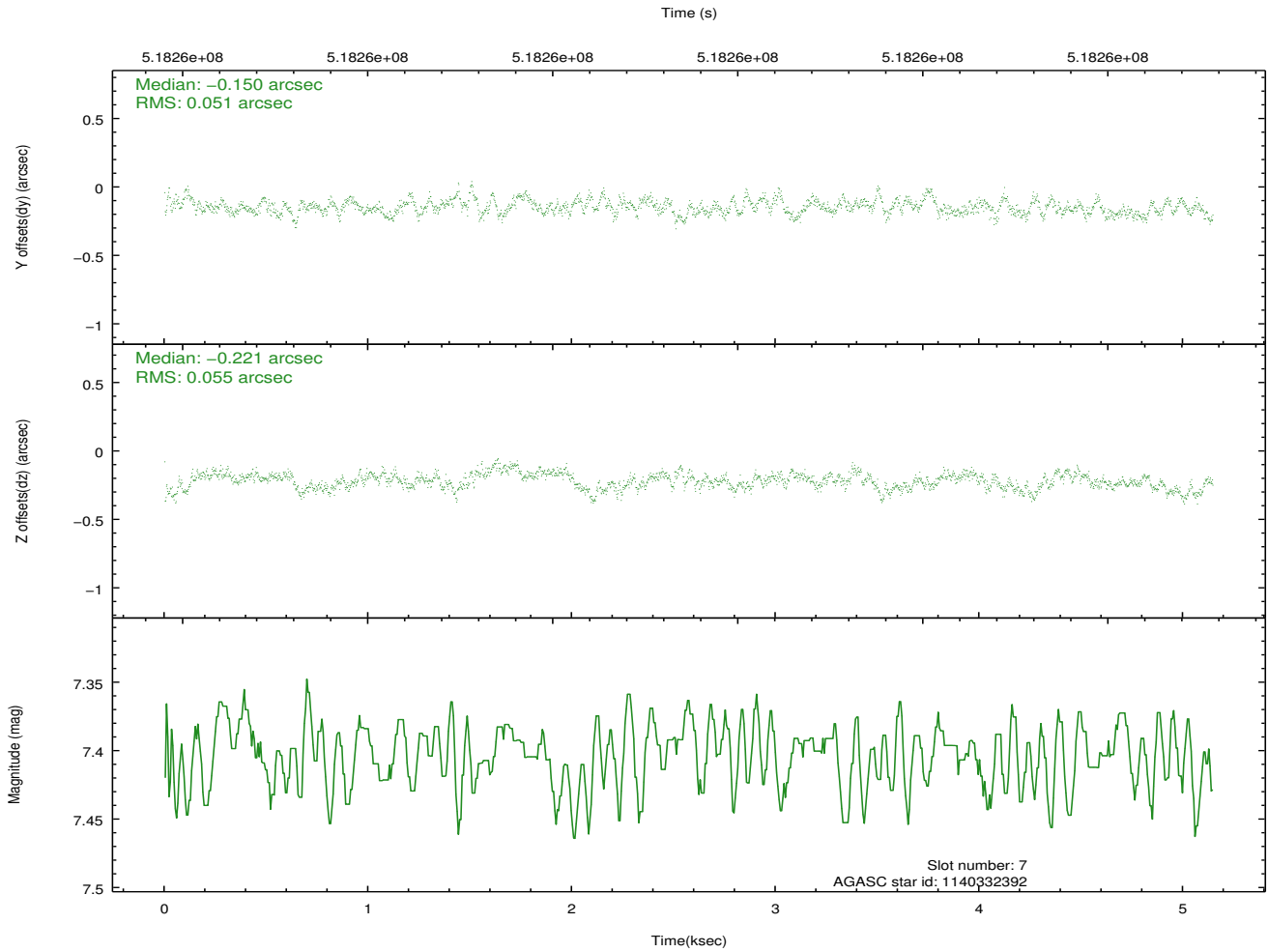
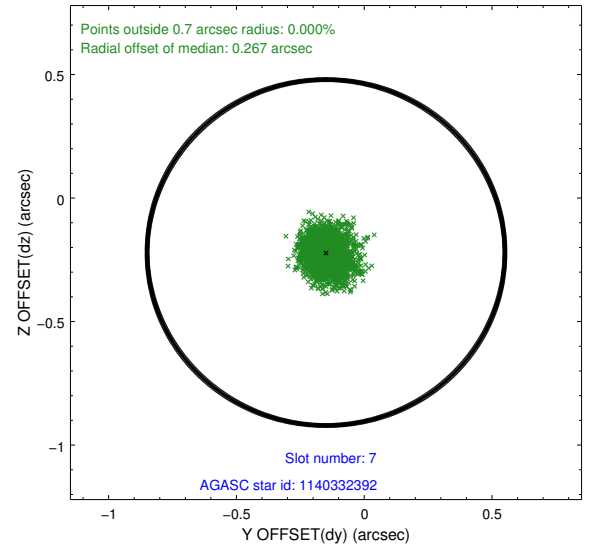
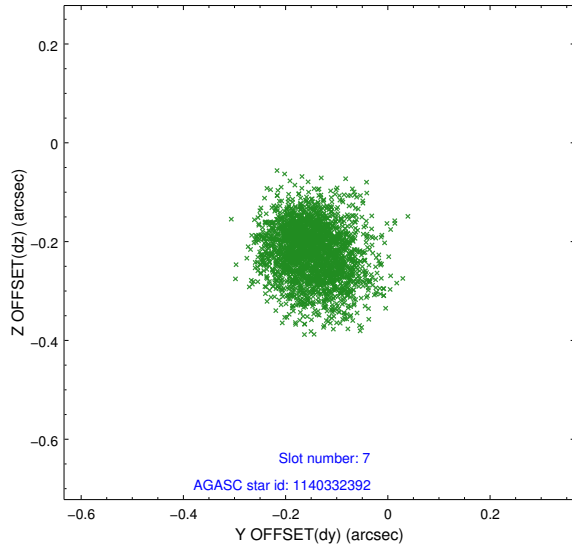
2.4.3 Slot 5



2.4.4 Slot 6

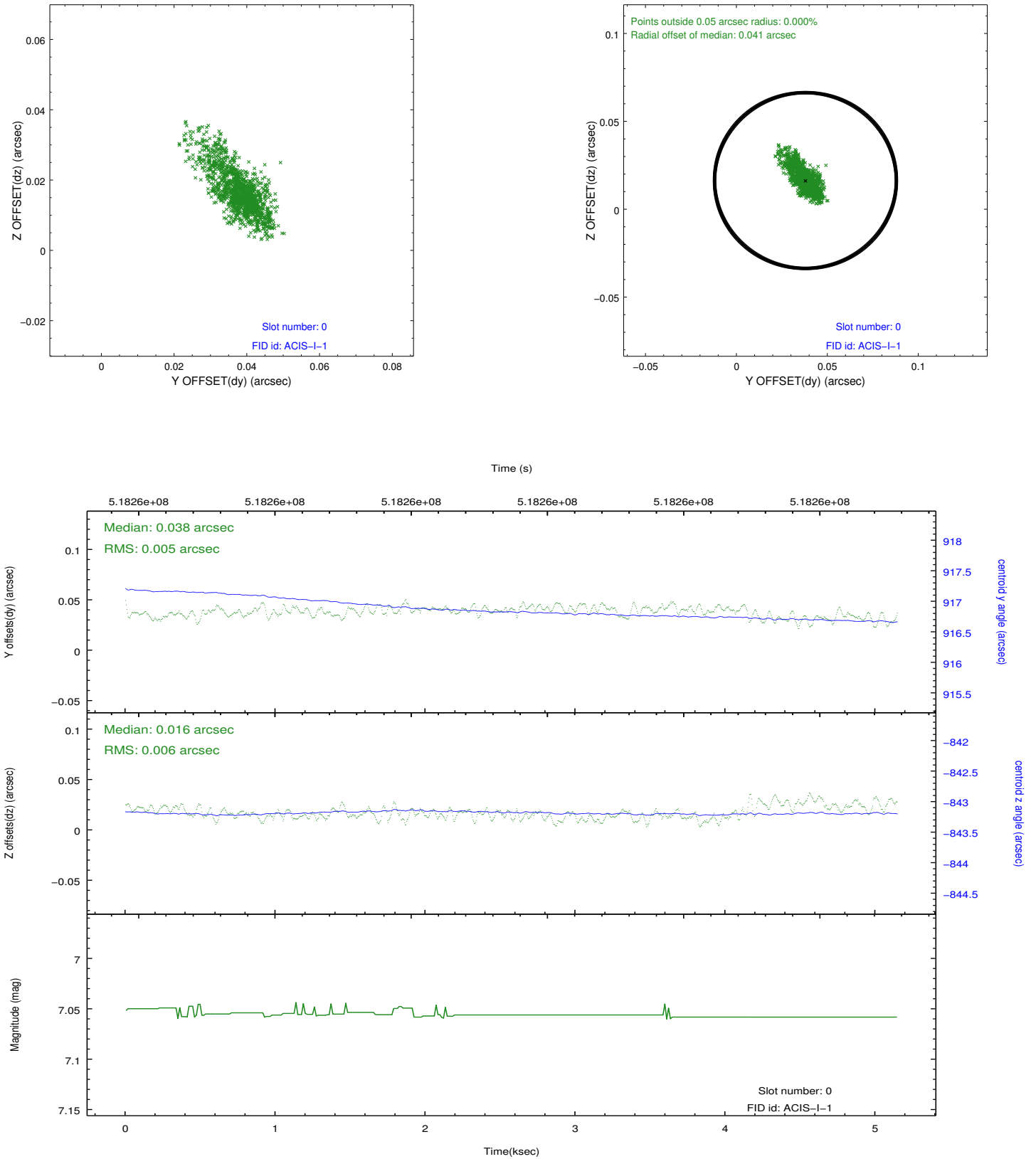


2.4.5 Slot 7

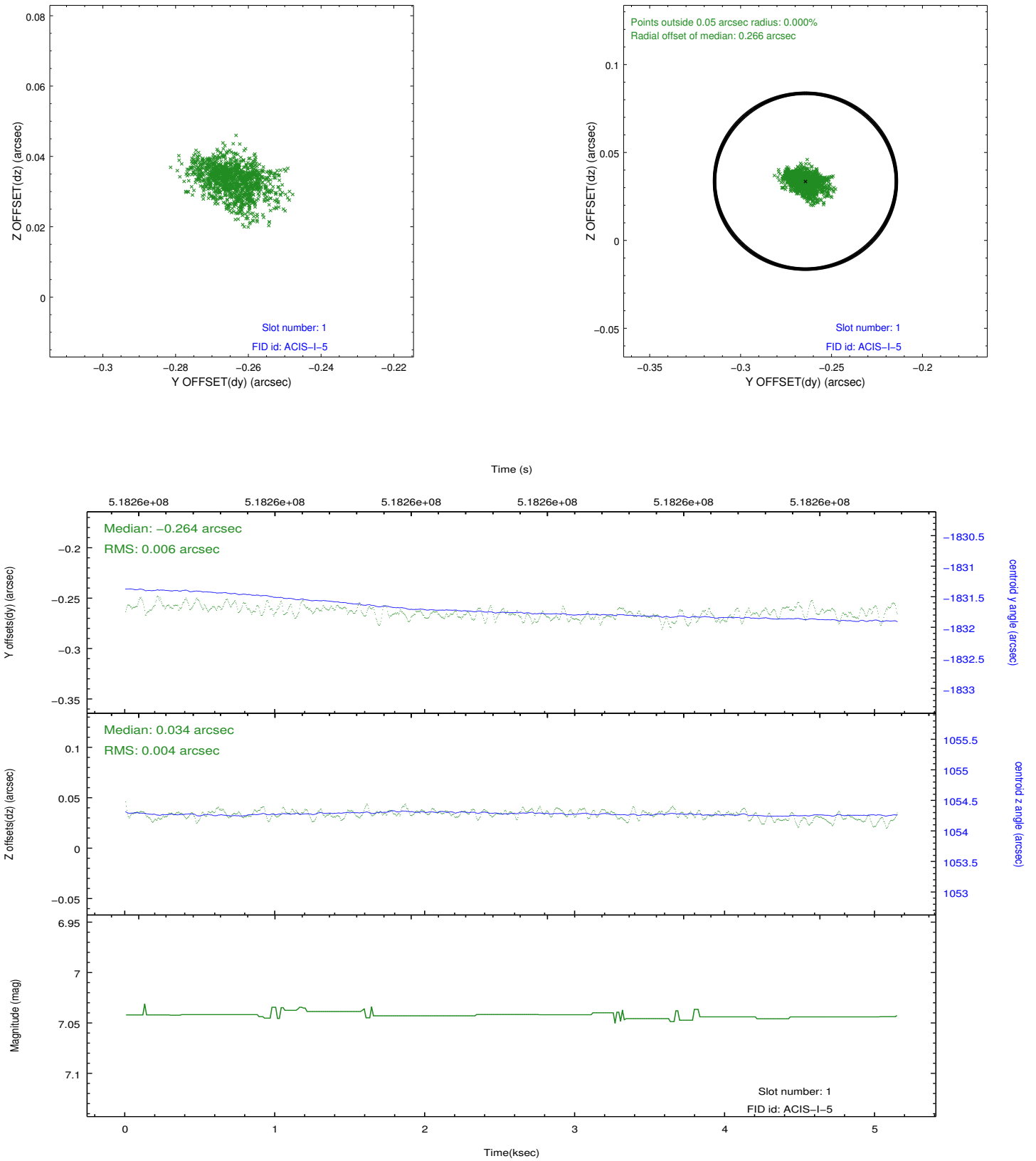


2.5 FID Slots

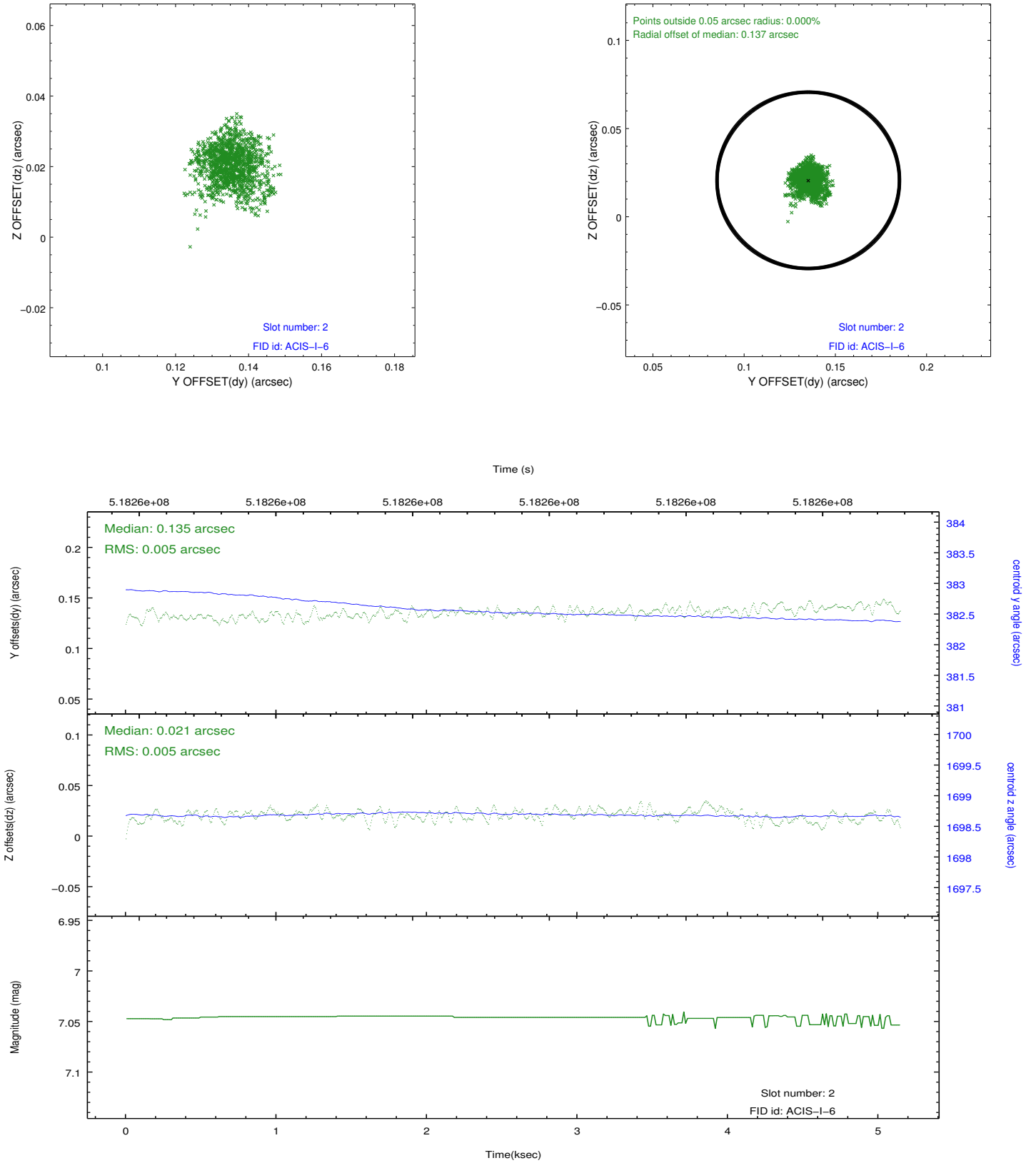
2.5.1 Slot 0



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)	2014.12.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9727999815345

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.