

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 139 - L2 Version 4
Chandra X-Ray Center

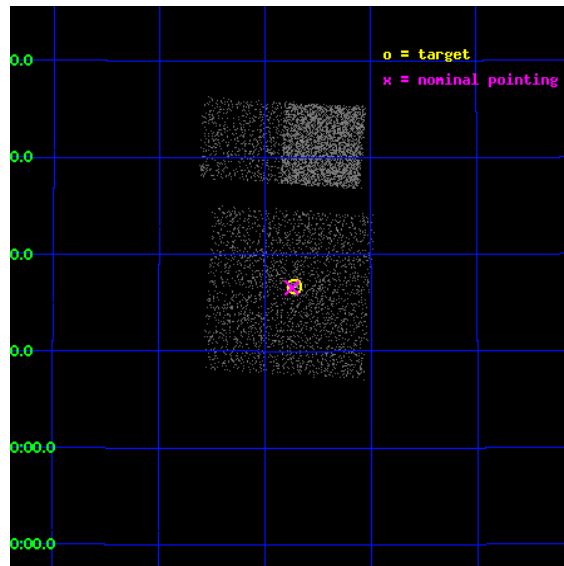
L2 Processing Date : Aug 22 2012

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1 Front

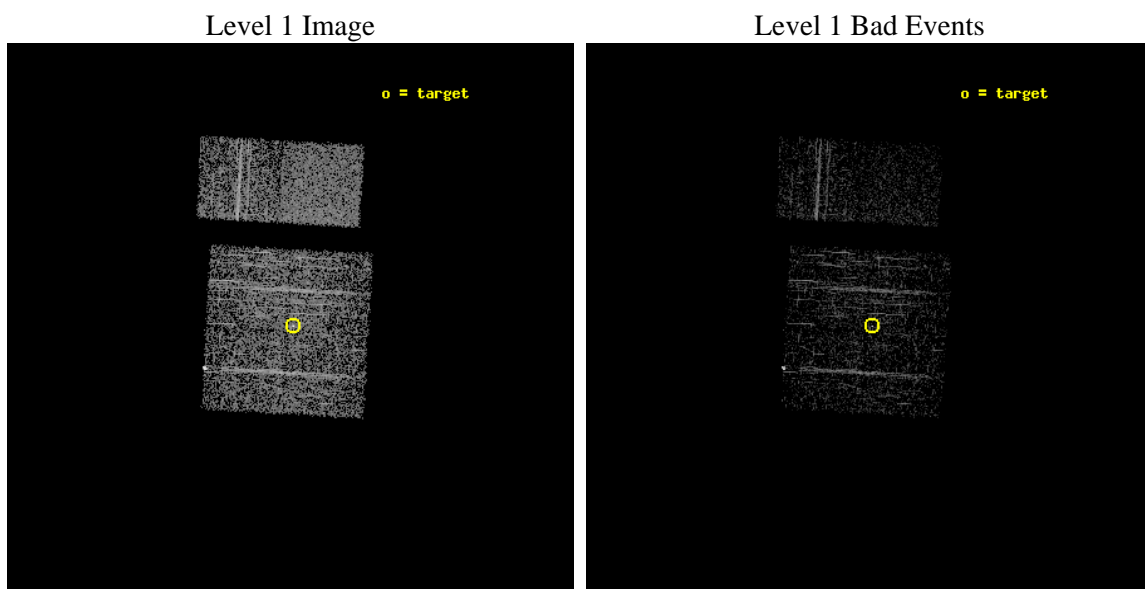
seq_num	700196	Sequence number
obs_id	139	Observation id
title	THE X-RAY CLUSTER ENVIRONMENT OF BLAZARS	Proposal title
observer	Dr. Joseph Pesce	Principal investigator
object	BL LACERTAE	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	330.680417	Observer's specified target RA [deg]
dec_targ	42.277722	Observer's specified target Dec [deg]
ra_nom	330.68654223423	Nominal RA [deg]
dec_nom	42.276041258809	Nominal Dec [deg]
roll_nom	3.2045817502855	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1051.556454286	Sum of GTIs [s]
livetime	1038.2410132905	Livetime [s]
ontime0	1051.4333342835	Sum of GTIs [s]
ontime1	1051.4743742868	Sum of GTIs [s]
ontime2	1051.5154142827	Sum of GTIs [s]
ontime3	1051.556454286	Sum of GTIs [s]
ontime6	1051.6385342851	Sum of GTIs [s]
ontime7	1051.5974942818	Sum of GTIs [s]
l2events	7594	Number of level 2 events



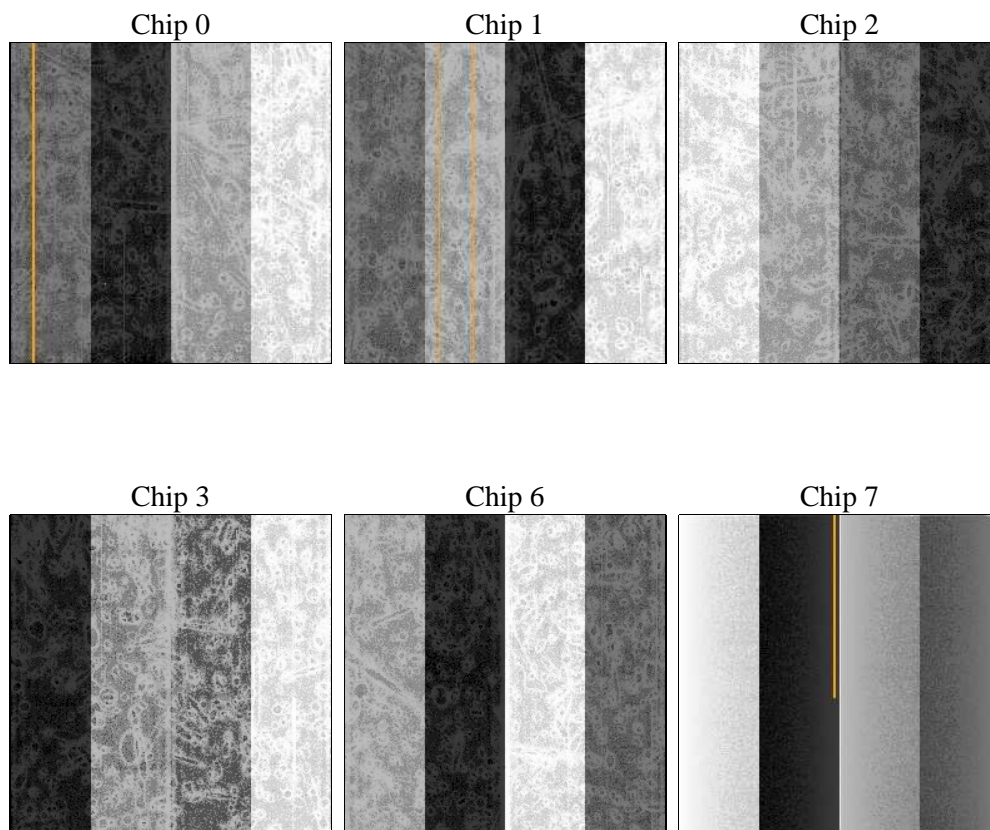
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1051.556454286	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime0	1051.4333342835	Sum of GTIs [s]
date	2012-08-22T19:06:38	Date and time of file creation	ontime1	1051.4743742868	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	1051.5154142827	Sum of GTIs [s]
			ontime3	1051.556454286	Sum of GTIs [s]
			ontime6	1051.6385342851	Sum of GTIs [s]
			ontime7	1051.5974942818	Sum of GTIs [s]
			l1events	52000	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	8474	7272	9180	8869	8941	9264
rejected events	7335	6338	8367	7751	8088	5458
rejected %	86%	87%	91%	87%	90%	58%

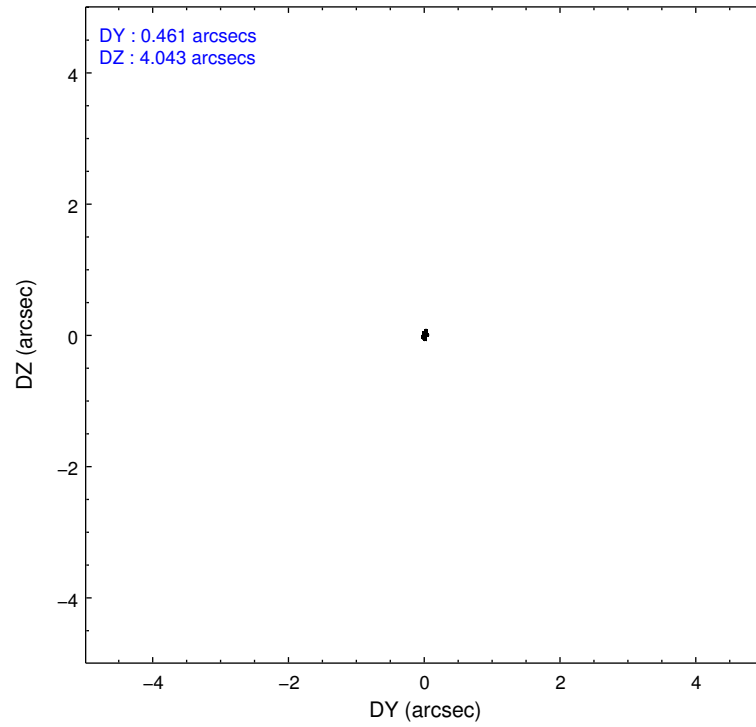
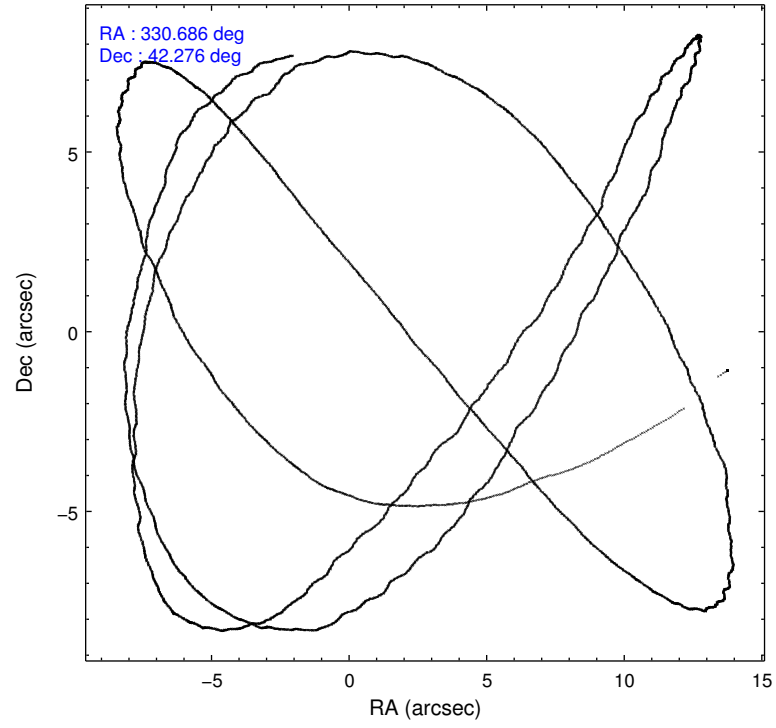
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	356	422	382	498	343	378
	4%	5%	4%	5%	3%	4%
grade 1 events	5	5	4	41	10	17
	0%	0%	0%	0%	0%	0%
grade 2 events	467	164	155	231	154	747
	5%	2%	1%	2%	1%	8%
grade 3 events	90	90	70	89	96	342
	1%	1%	0%	1%	1%	3%
grade 4 events	98	89	77	112	86	349
	1%	1%	0%	1%	0%	3%
grade 5 events	252	221	256	328	285	908
	2%	3%	2%	3%	3%	9%
grade 6 events	137	174	133	194	178	2019
	1%	2%	1%	2%	1%	21%
grade 7 events	7069	6107	8103	7376	7789	4504
	83%	83%	88%	83%	87%	48%

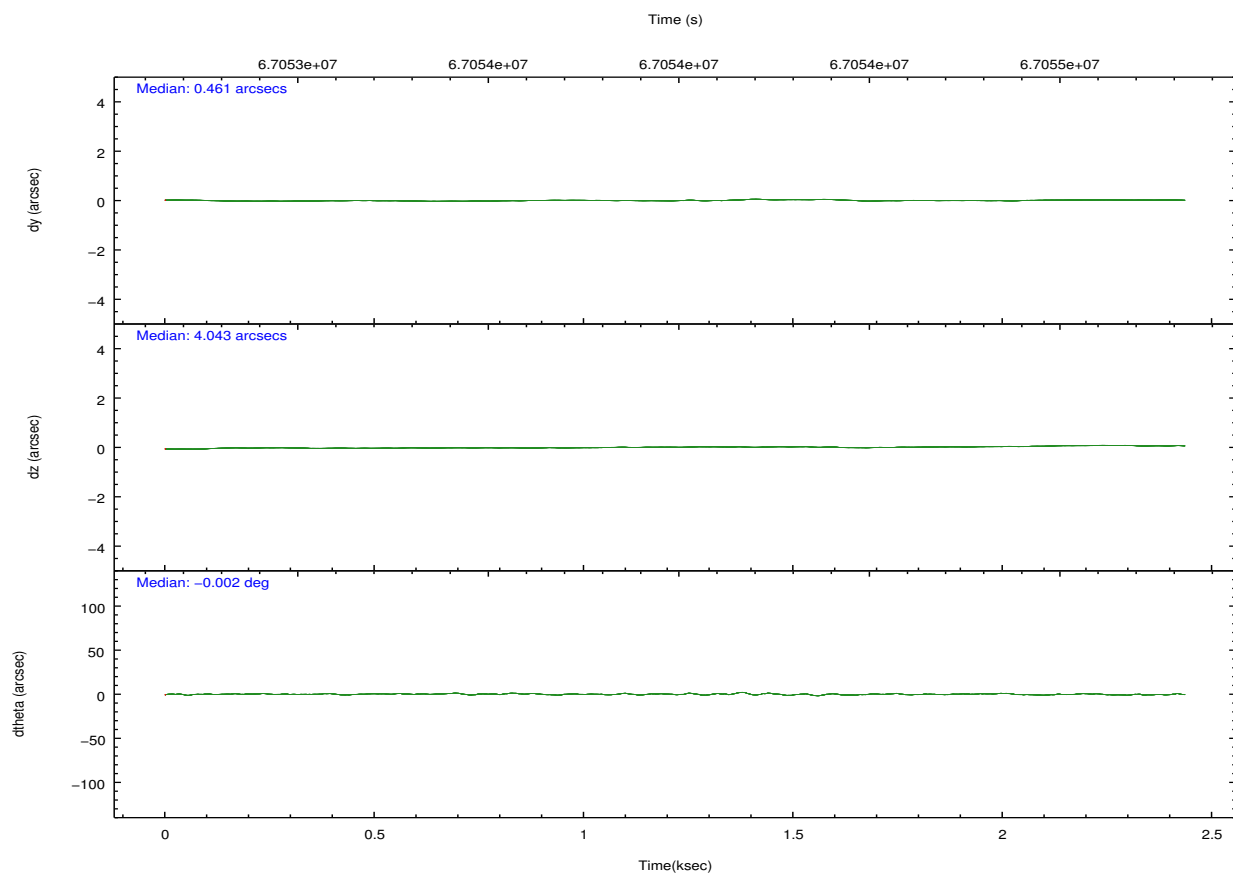
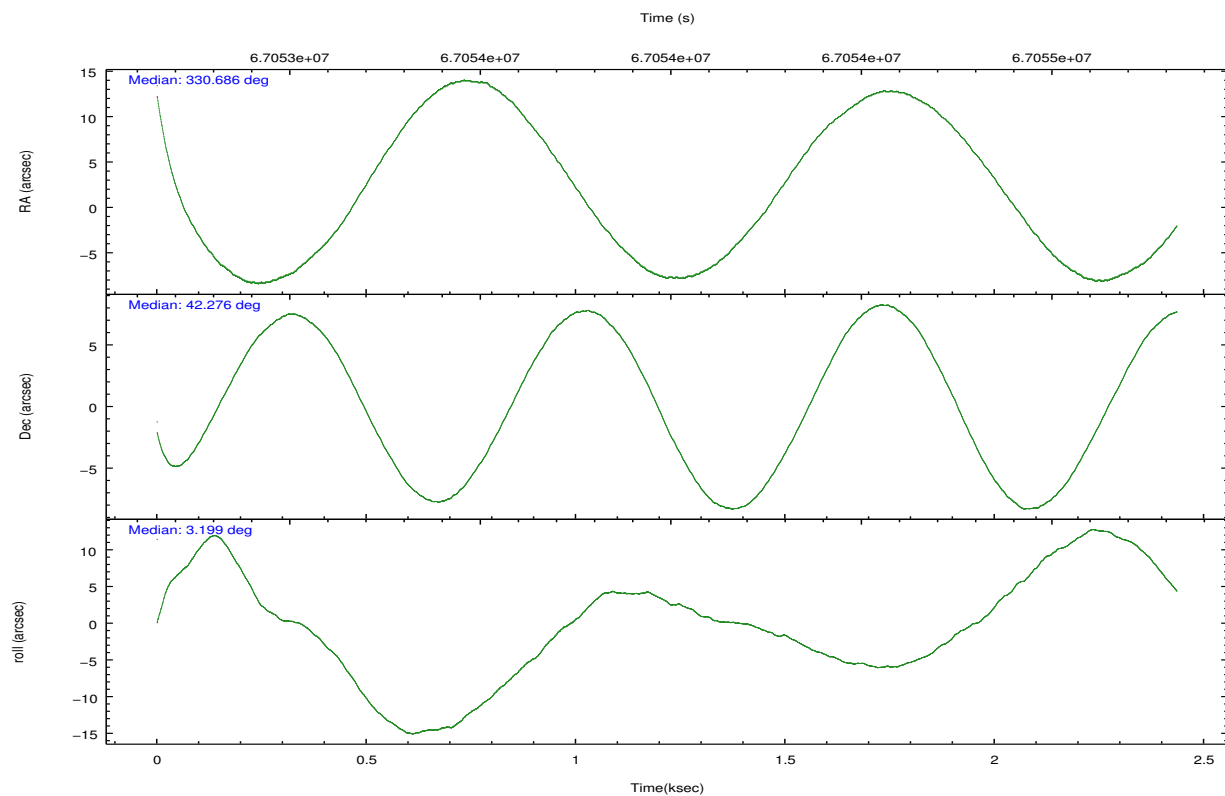
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	330.655433	330.6865422342264
[deg] Pointing Dec	42.261069	42.27604125880931
[deg] Pointing Roll	3.016800	3.204581750285522
[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)	67053208.184000	67051717.380089
Observation start date	2000-02-16T01:52:24	2000-02-16T01:28:37
[s] Observation end time (MET)	67055208.184000	67055790.730238
Observation end date	2000-02-16T02:25:44	2000-02-16T02:36:30
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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



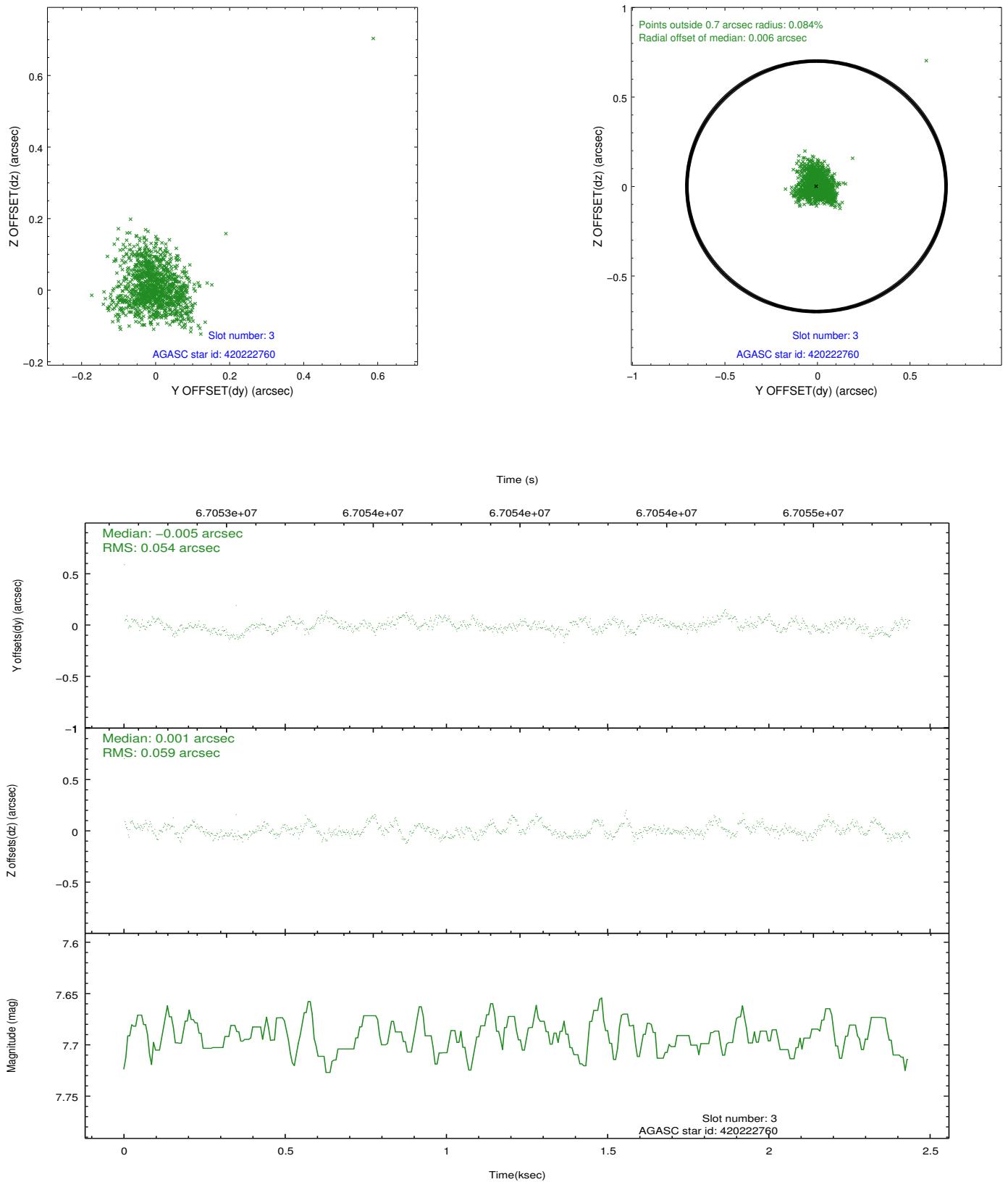


Slot Statistics

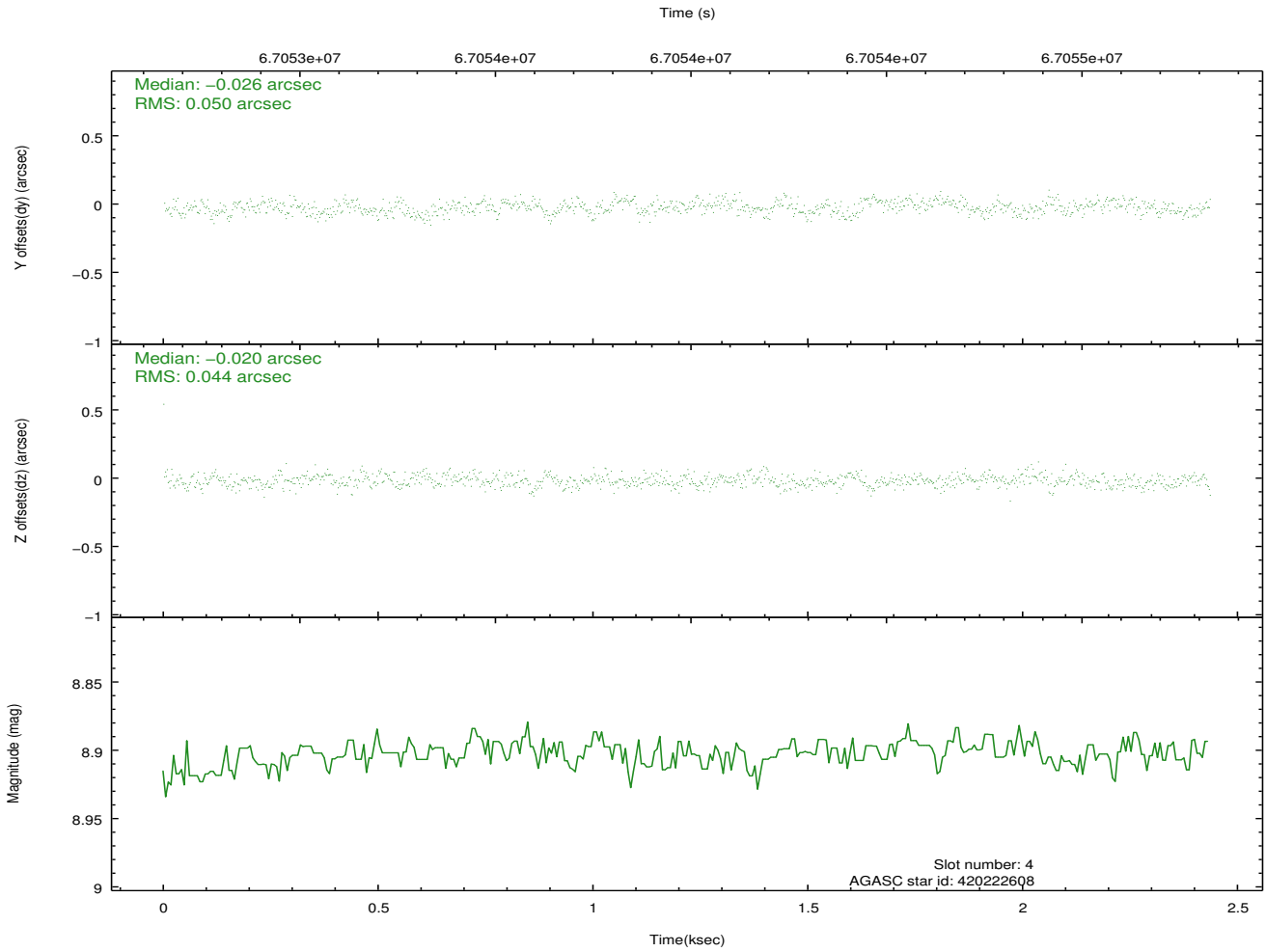
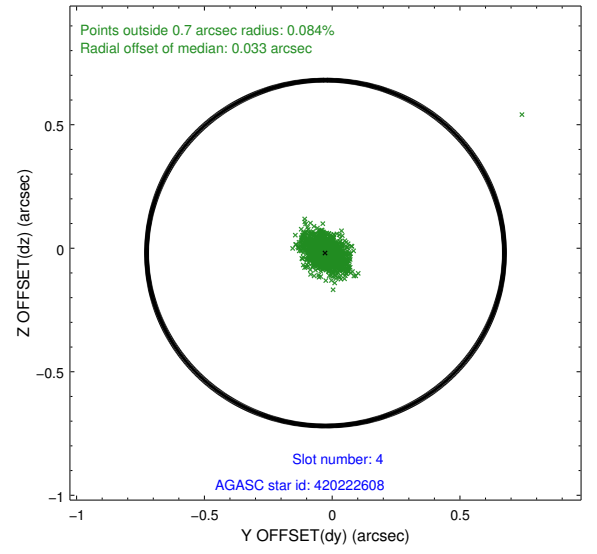
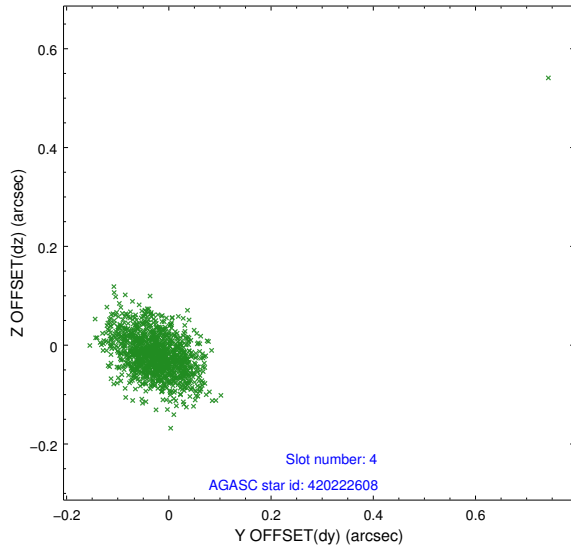
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-3	7.44	595	0.019	0.178	0.008	0.013	0.000000	0.000000	56.84	-960.41
1	FID	ACIS-I-4	7.20	595	-0.035	-0.077	0.006	0.011	0.000000	0.000000	2159.42	1070.83
2	FID	ACIS-I-5	7.23	595	-0.083	-0.031	0.008	0.013	0.000000	0.000000	-1805.25	1071.96
3	GUIDE	420222760	7.69	1189	-0.005	0.001	0.080	0.130	330.684800	42.814515	183.29	1985.16
4	GUIDE	420222608	8.90	1188	-0.026	-0.020	0.064	0.106	330.015332	41.744961	-1812.95	-1757.53
5	GUIDE	420222488	9.77	1188	0.162	-0.015	0.092	0.151	331.272034	42.412006	1665.28	460.54
6	GUIDE	420222616	9.71	1189	-0.038	0.083	0.100	0.159	331.228872	42.794289	1616.45	1842.54
7	GUIDE	418526448	9.71	1188	-0.092	-0.056	0.103	0.169	329.926151	41.573528	-2088.62	-2359.23

2.4 Star Slots

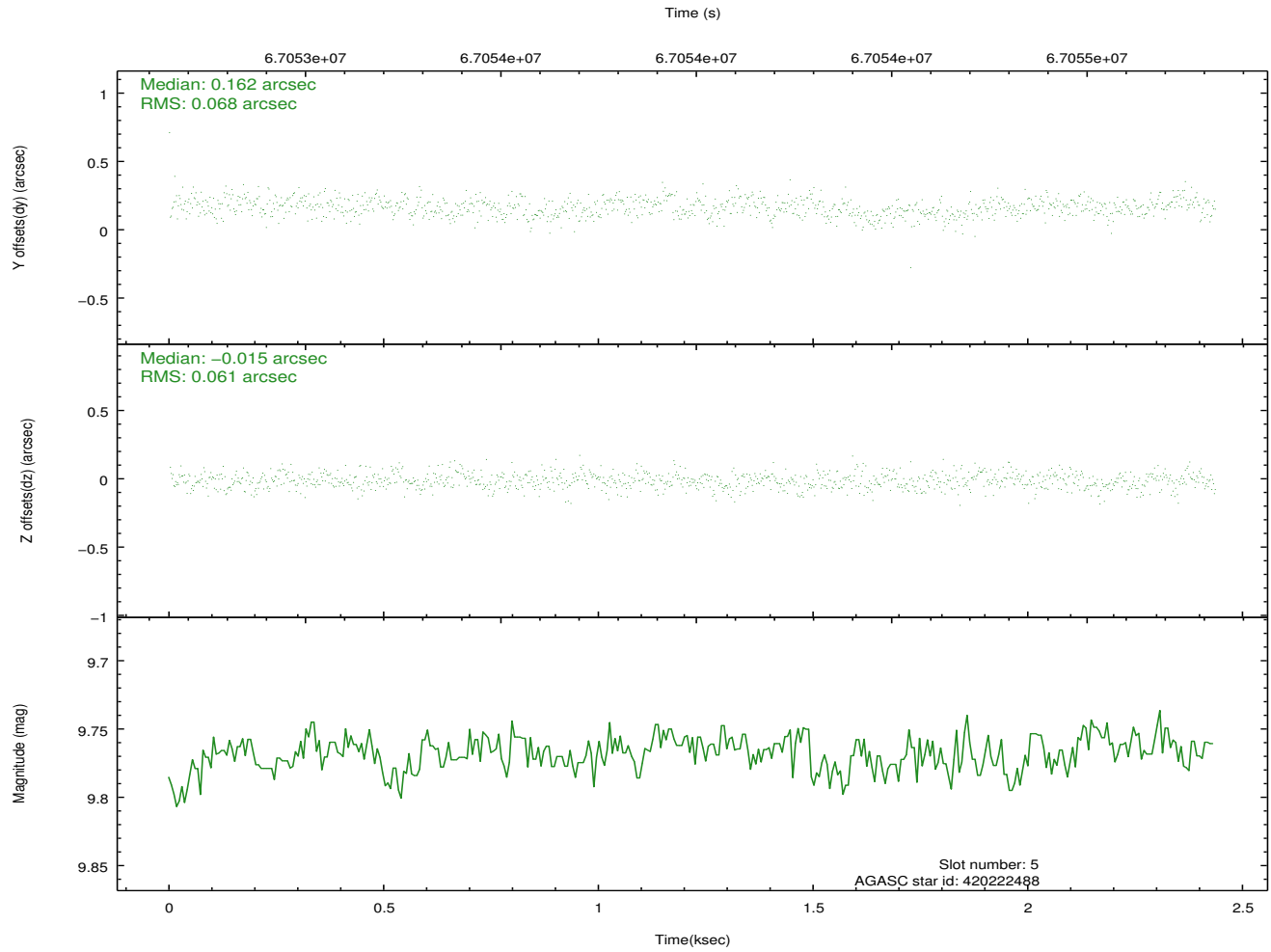
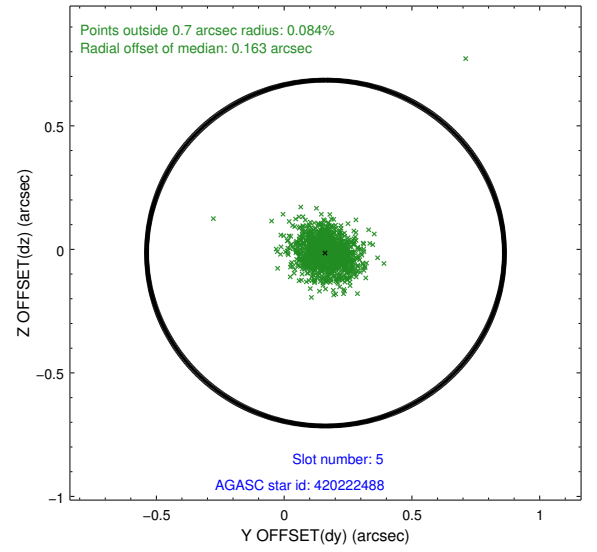
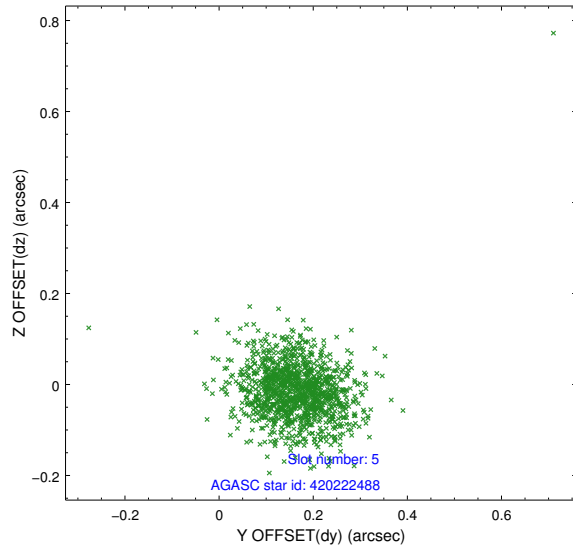
2.4.1 Slot 3



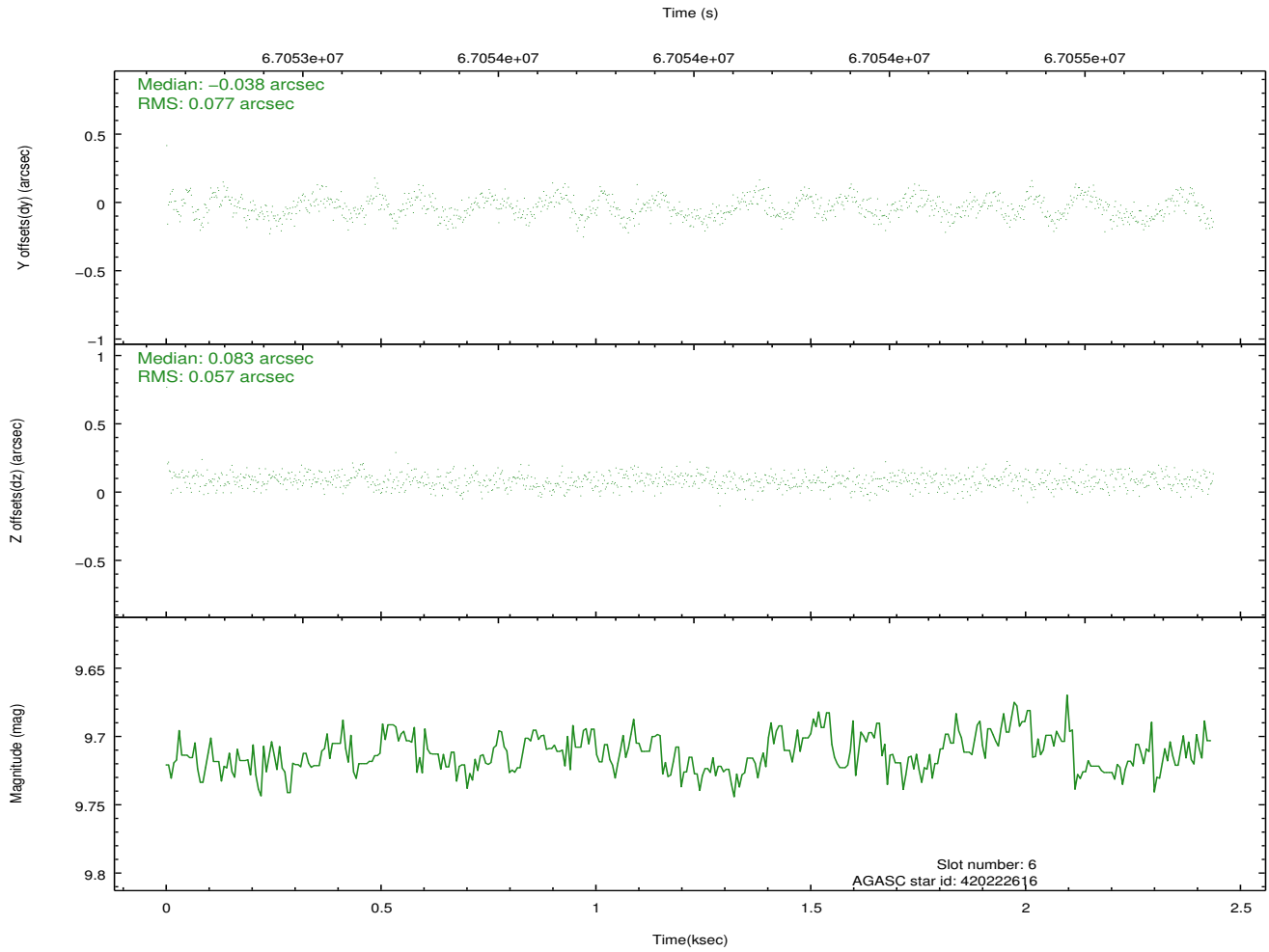
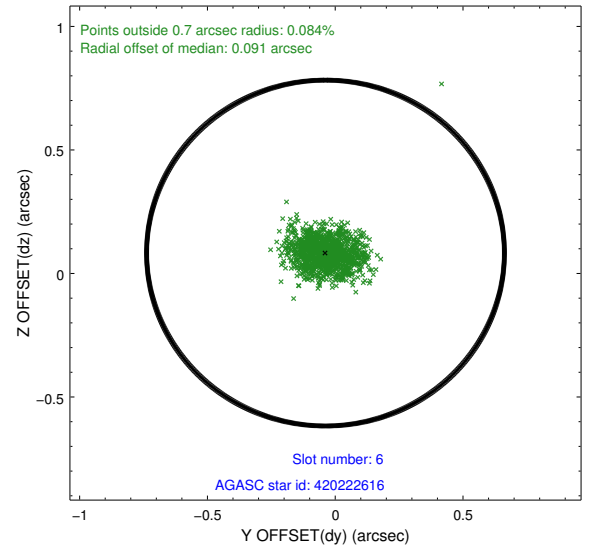
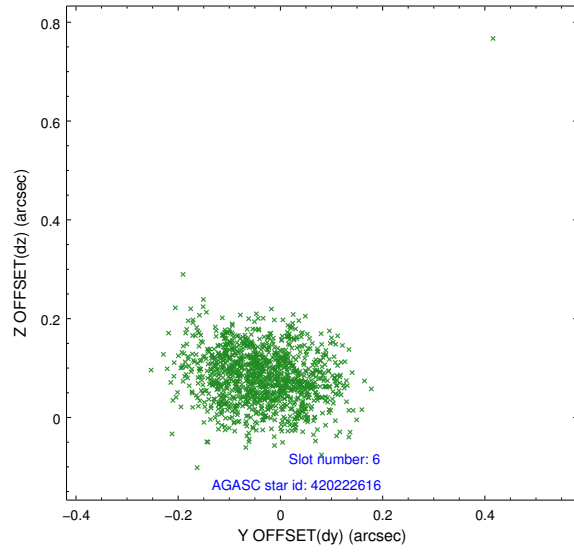
2.4.2 Slot 4



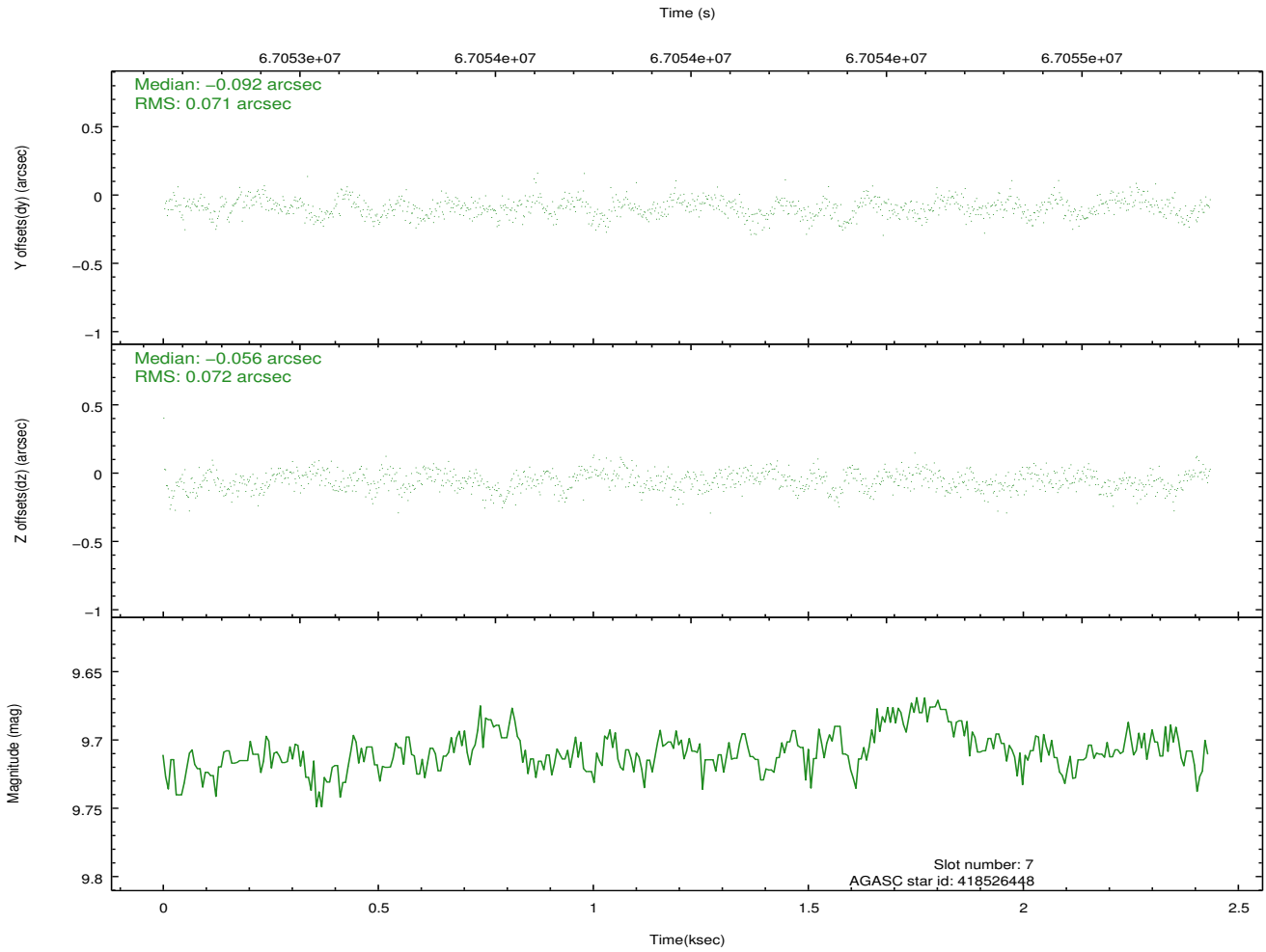
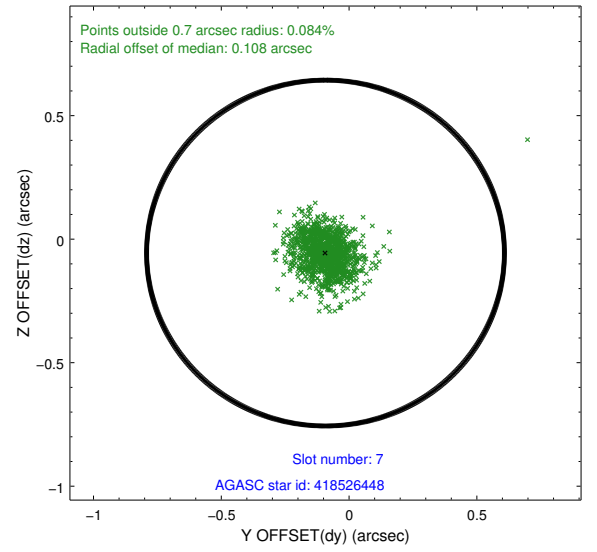
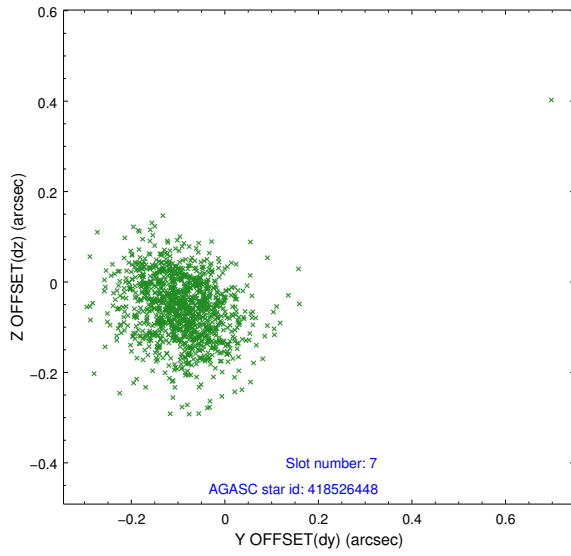
2.4.3 Slot 5



2.4.4 Slot 6

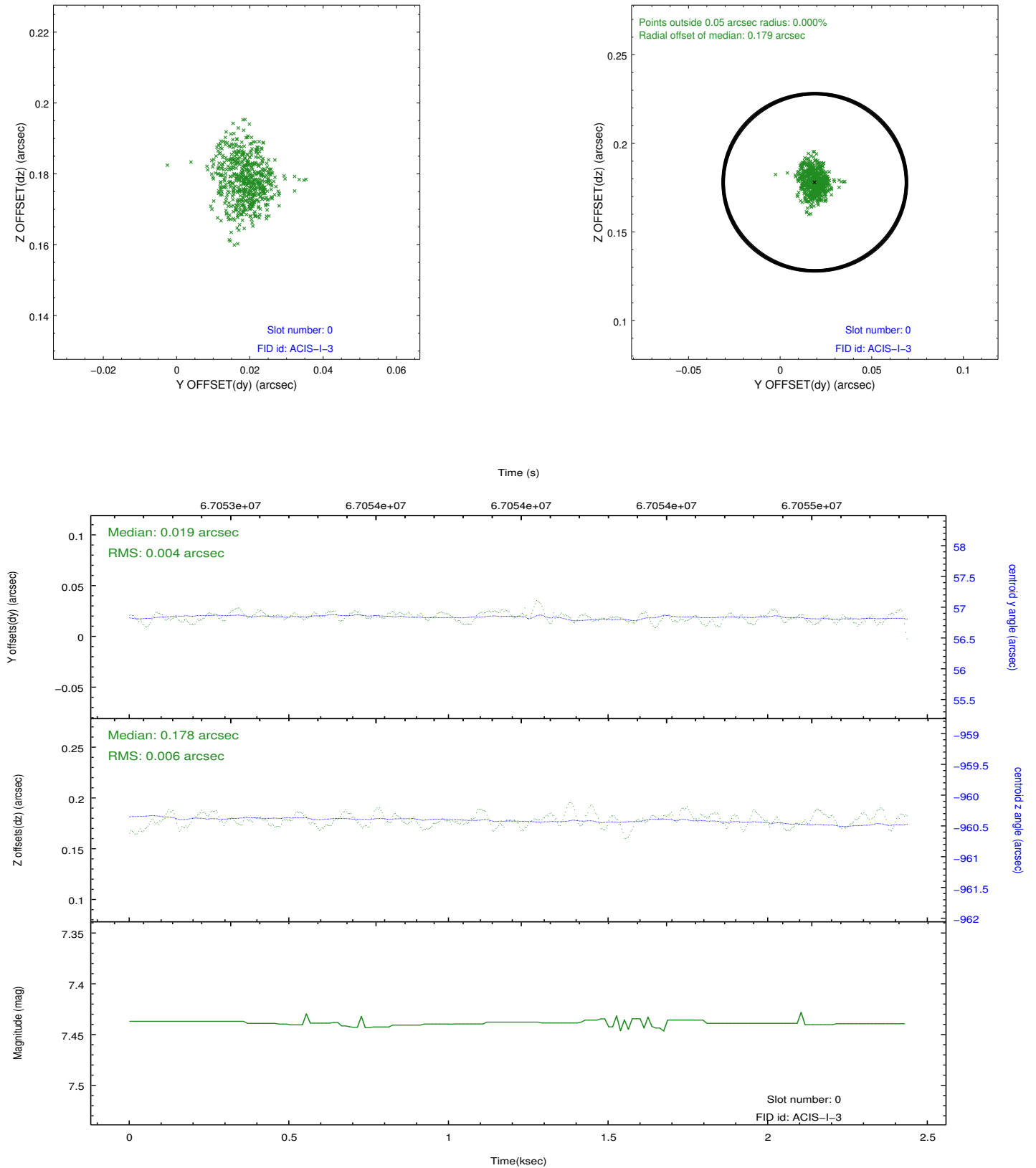


2.4.5 Slot 7

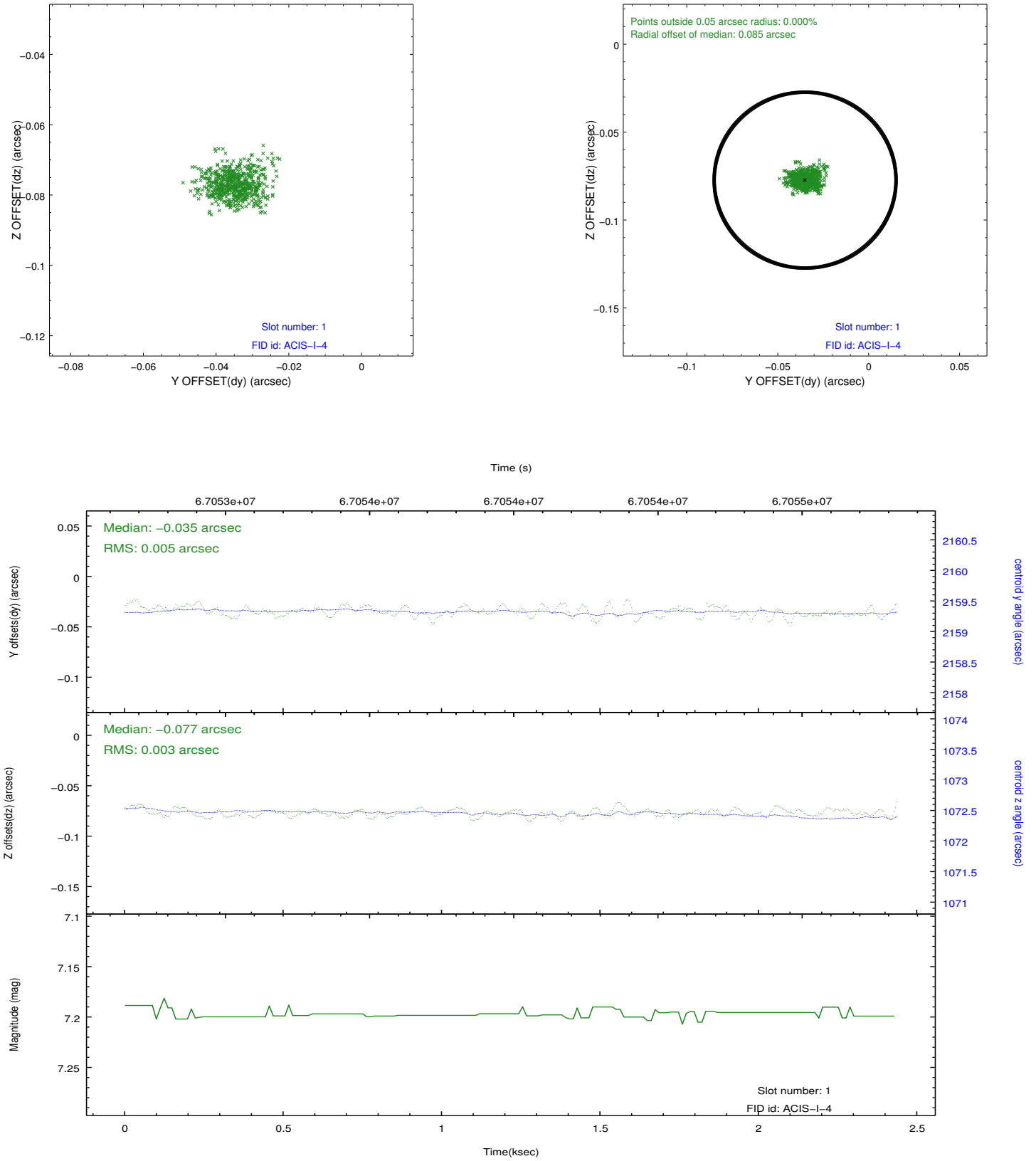


2.5 FID Slots

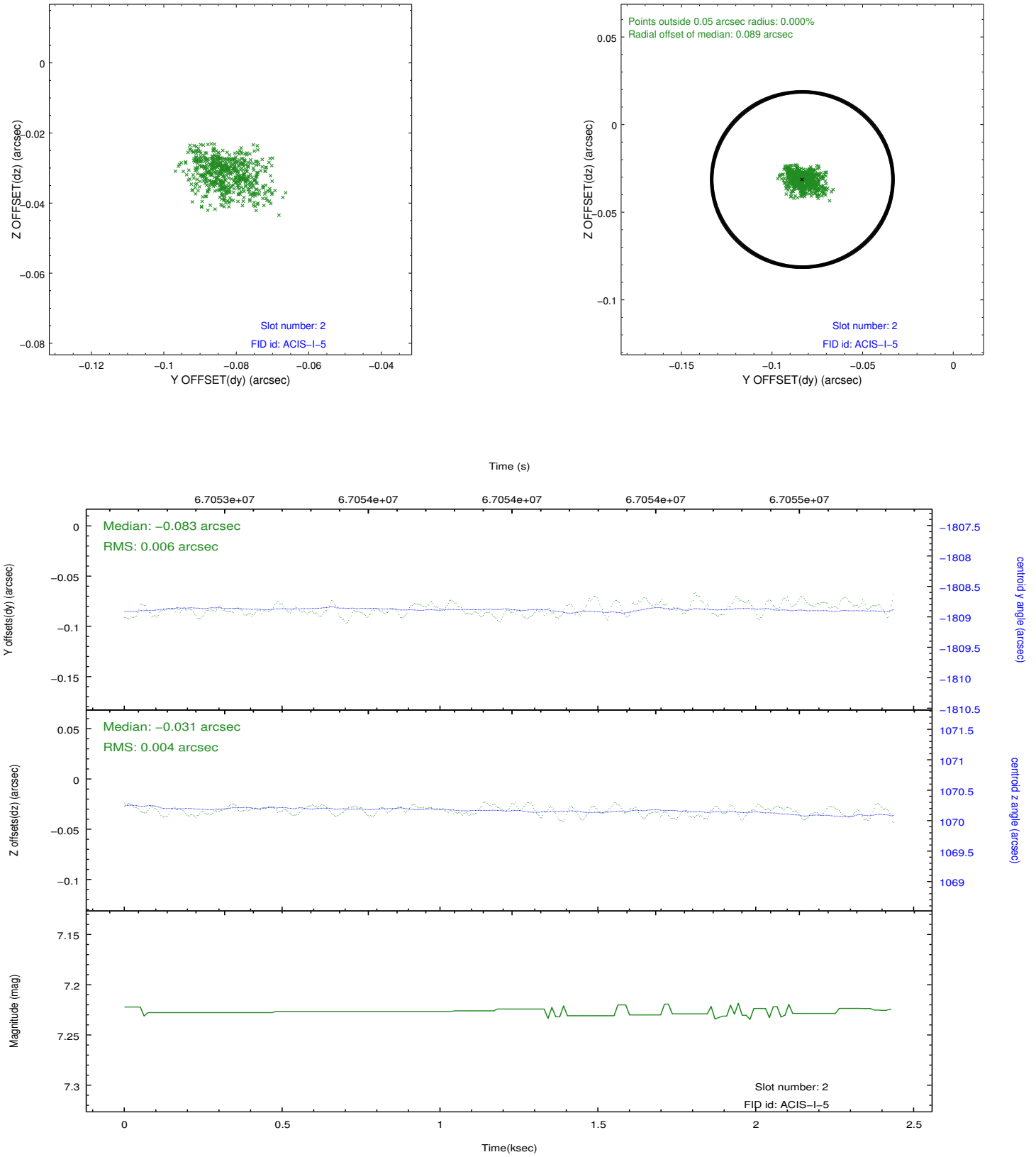
2.5.1 Slot 0



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)	2012.08.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.052

A.2 Comments