

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7721 - L2 Version 3
Chandra X-Ray Center

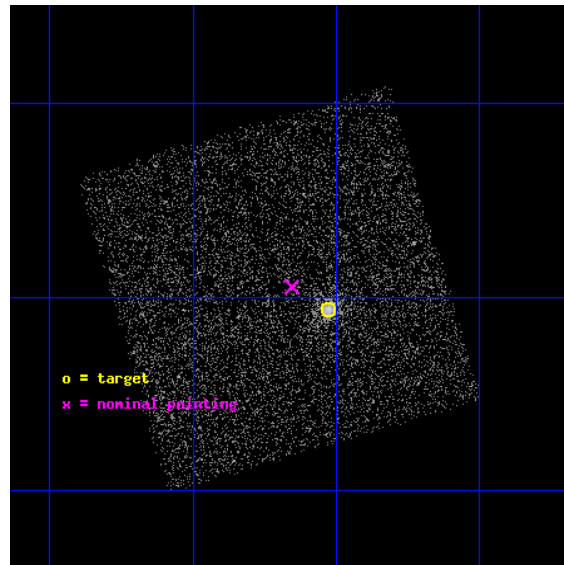
L2 Processing Date : Apr 20 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

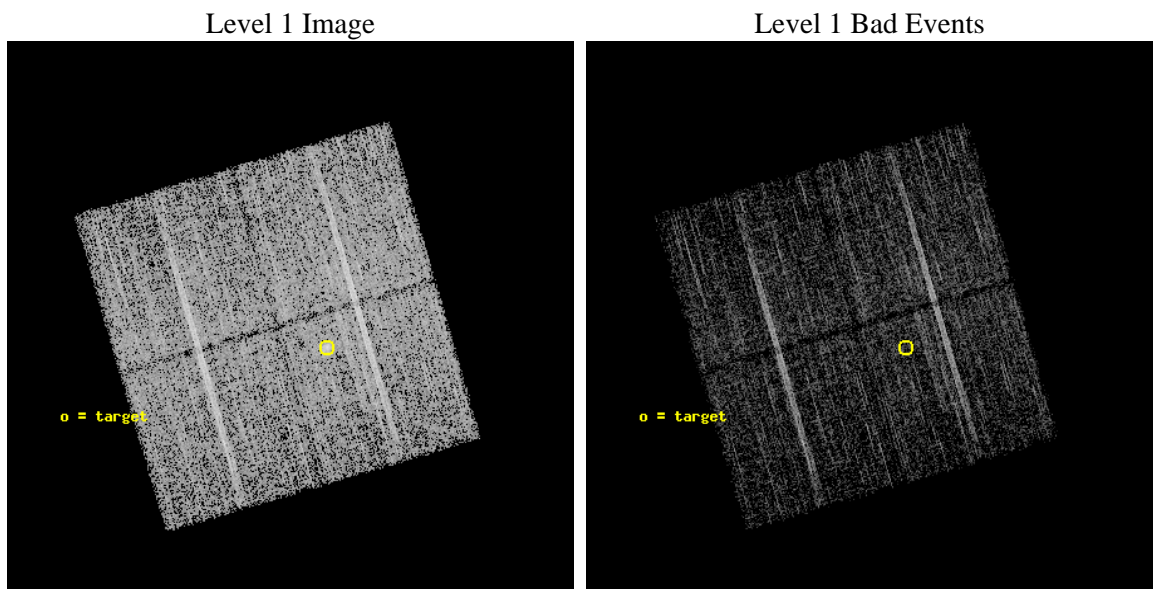
seq_num	701389	Sequence number
obs_id	7721	Observation id
title	Snapshot Survey for X-ray Outbursts in Rich Clusters of Galaxies	P
observer	Professor Gordon Garmire	Principal investigator
object	MACS1311.0-0311	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	197.756667	Observer's specified target RA [deg]
dec_targ	-3.177222	Observer's specified target Dec [deg]
ra_nom	197.78866463289	Nominal RA [deg]
dec_nom	-3.1578408539871	Nominal Dec [deg]
roll_nom	73.553705996921	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7145.4590547681	Sum of GTIs [s]
livetime	7052.0983718071	Livetime [s]
ontime0	7148.6000549793	Sum of GTIs [s]
ontime1	7148.6000549793	Sum of GTIs [s]
ontime2	7145.45908463	Sum of GTIs [s]
ontime3	7145.4590547681	Sum of GTIs [s]
l2events	13560	Number of level 2 events



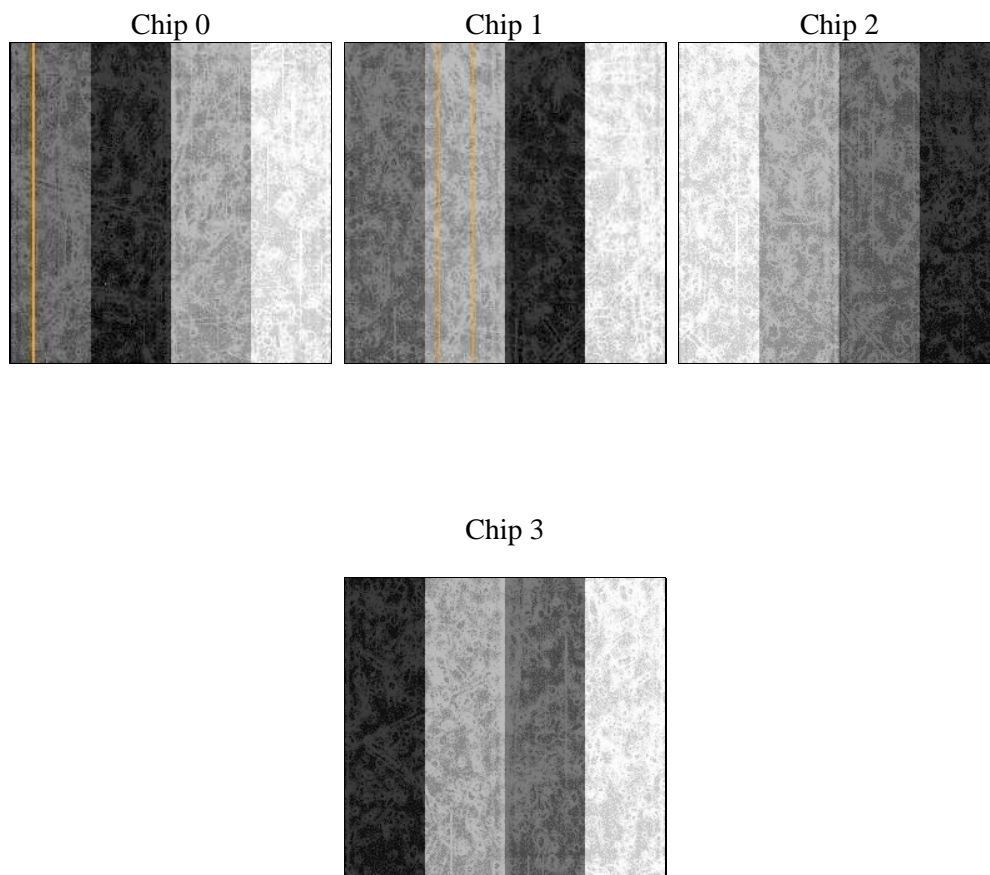
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	7145.4590547681	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	7148.6000549793	Sum of GTIs [s]
date	2012-04-21T00:56:19	Date and time of file creation	ontime1	7148.6000549793	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	7145.45908463	Sum of GTIs [s]
			ontime3	7145.4590547681	Sum of GTIs [s]
			l1events	188926	Number of level 1 events

2.1.4 Events

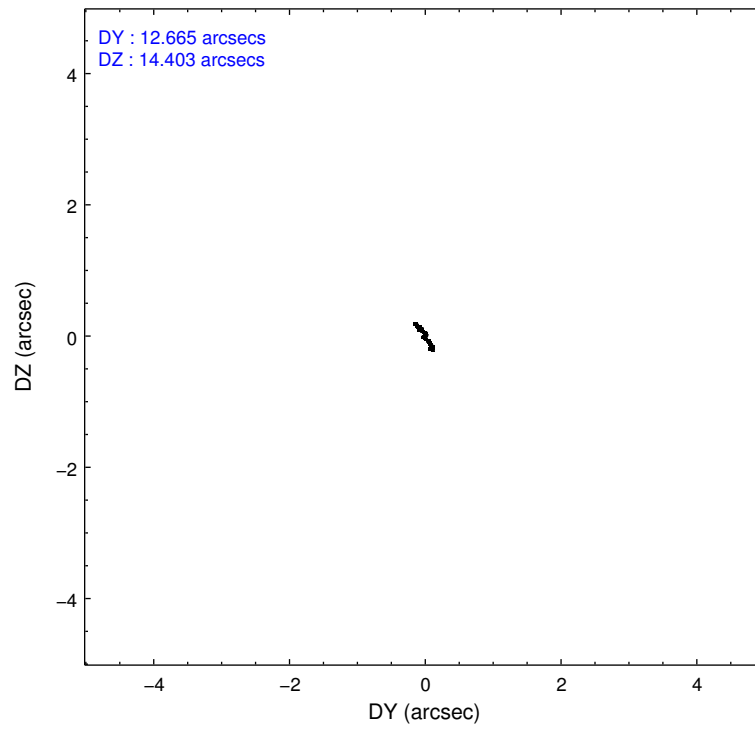
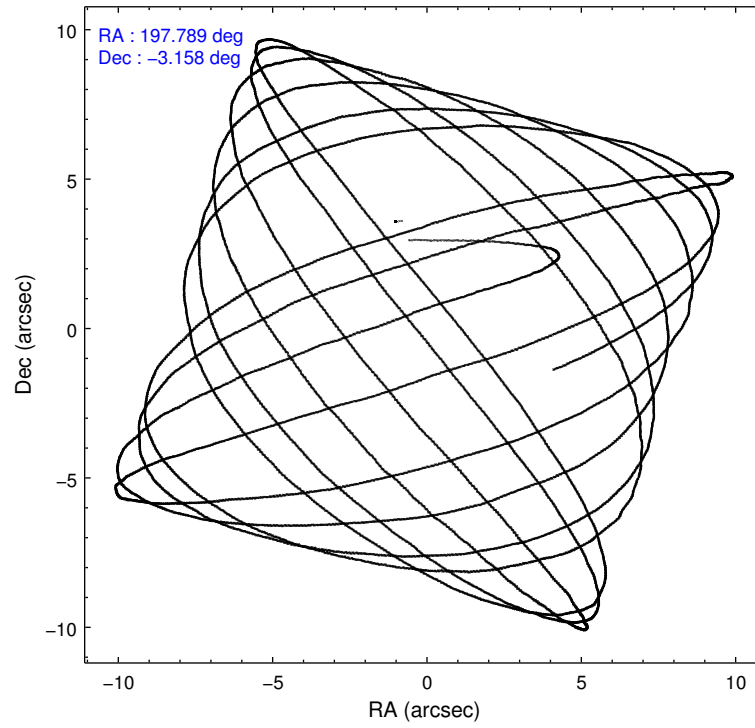
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	45420	42814	52079	48613
rejected events	41312	38516	48042	43820
rejected %	90%	89%	92%	90%

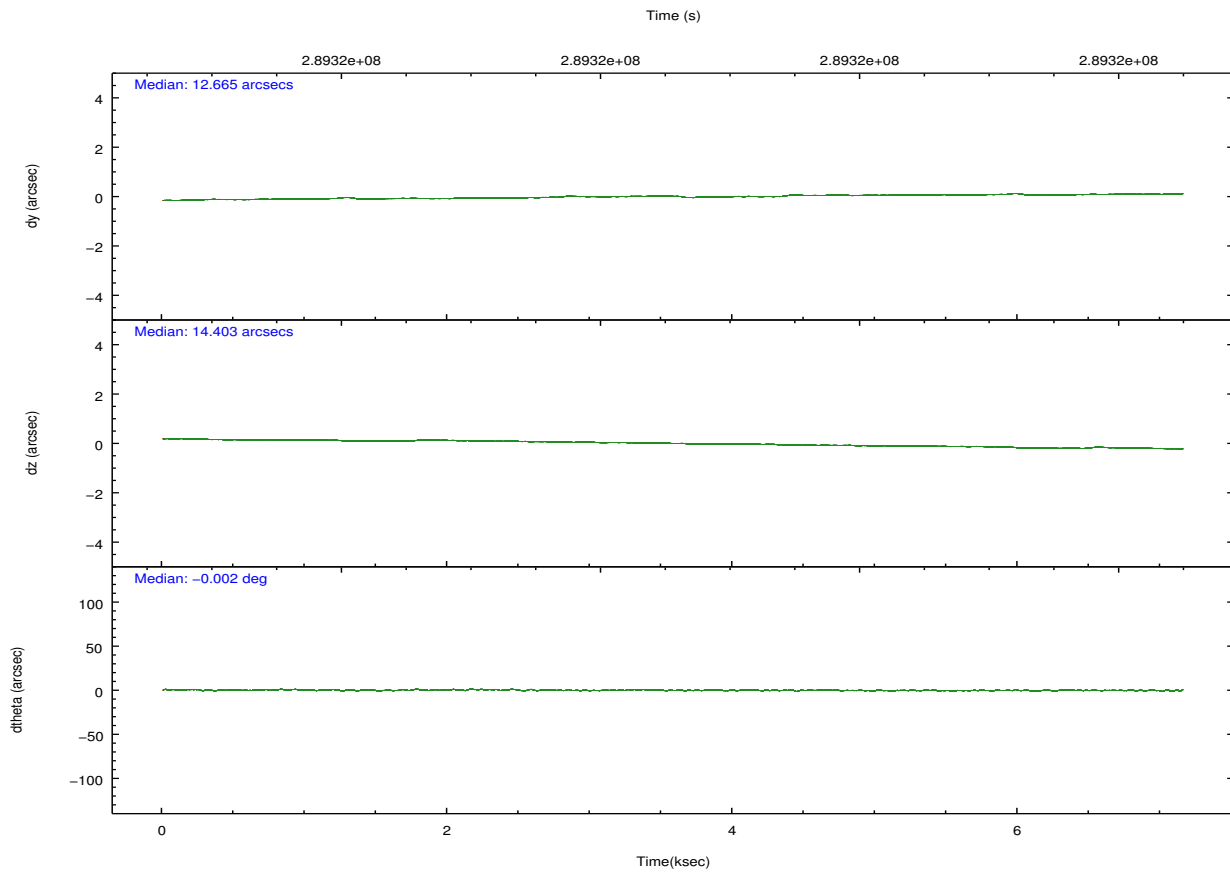
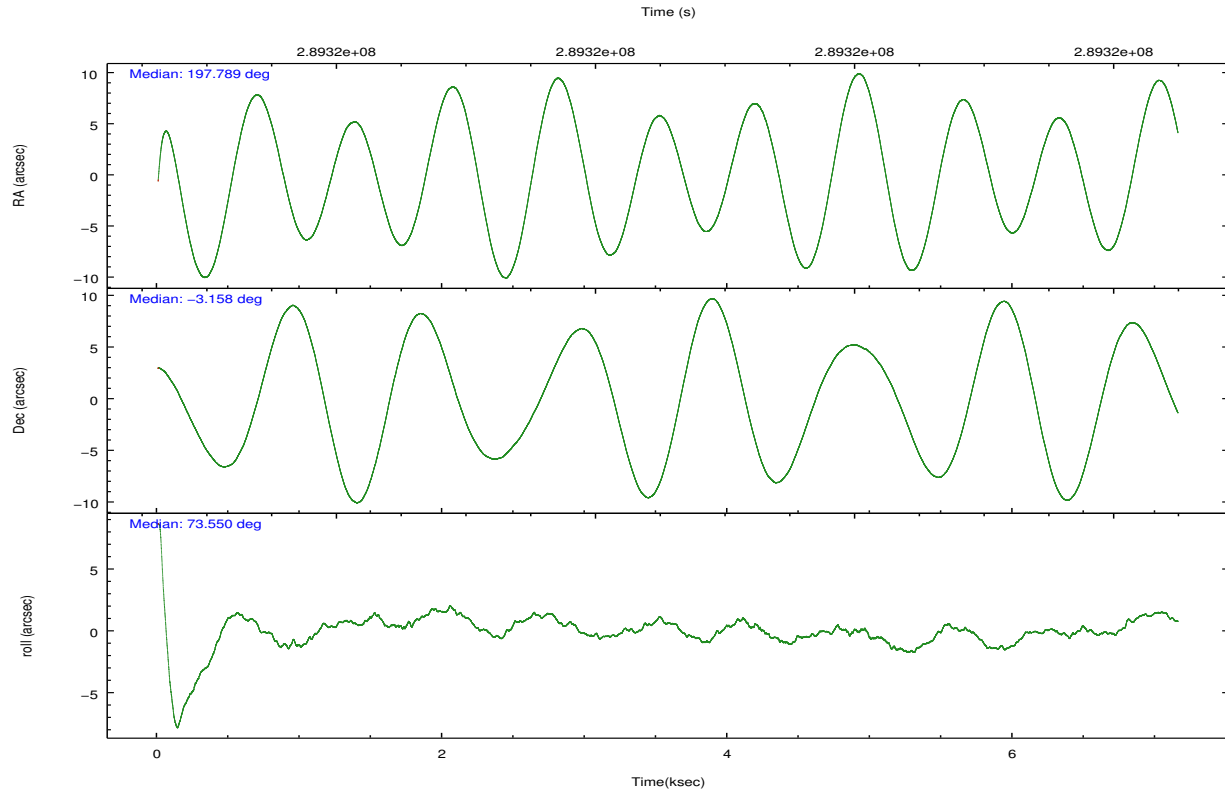
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1659	1689	1695	2449
	3%	3%	3%	5%
grade 1 events	22	23	32	27
	0%	0%	0%	0%
grade 2 events	997	921	1036	905
	2%	2%	1%	1%
grade 3 events	474	552	401	436
	1%	1%	0%	0%
grade 4 events	433	477	456	468
	0%	1%	0%	0%
grade 5 events	822	902	736	937
	1%	2%	1%	1%
grade 6 events	632	733	554	651
	1%	1%	1%	1%
grade 7 events	40381	37517	47169	42740
	88%	87%	90%	87%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	197.795238	197.7886646328926	Subarray requested	NONE	NONE
[deg] Pointing Dec	-3.184562	-3.157840853987083	Alternating exposures requested	N	N
[deg] Pointing Roll	73.345351	73.55370599692083	[s] Primary exposure time	0.000000	3.1
[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)	289315141.184000	289314152.16988			
Observation start date	2007-03-03T13:17:56	2007-03-03T13:02:32			
[s] Observation end time (MET)	289322141.184000	289322956.9203			
Observation end date	2007-03-03T15:14:36	2007-03-03T15:29:16			
Read mode	TIMED	TIMED			

2.3 Aspect



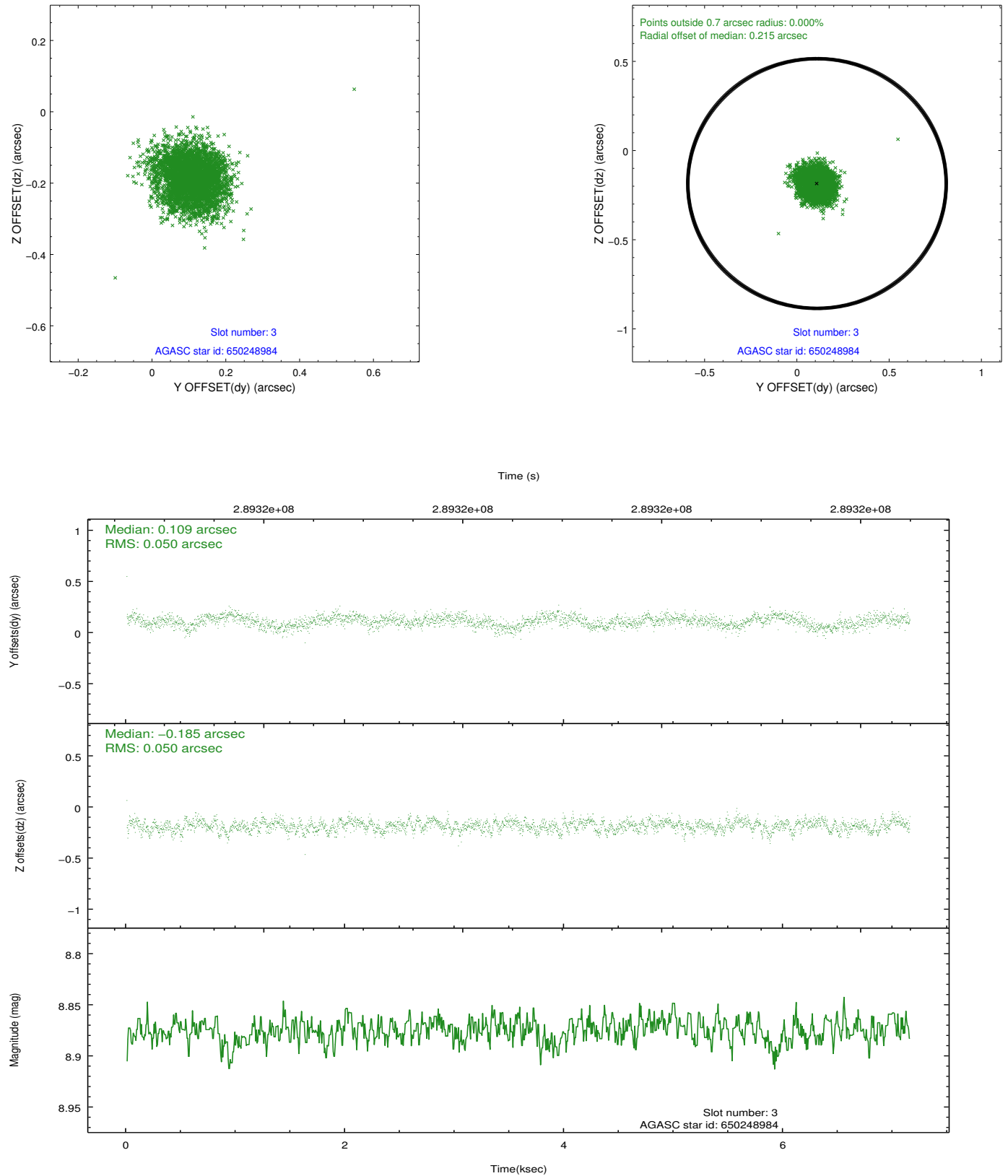


Slot Statistics

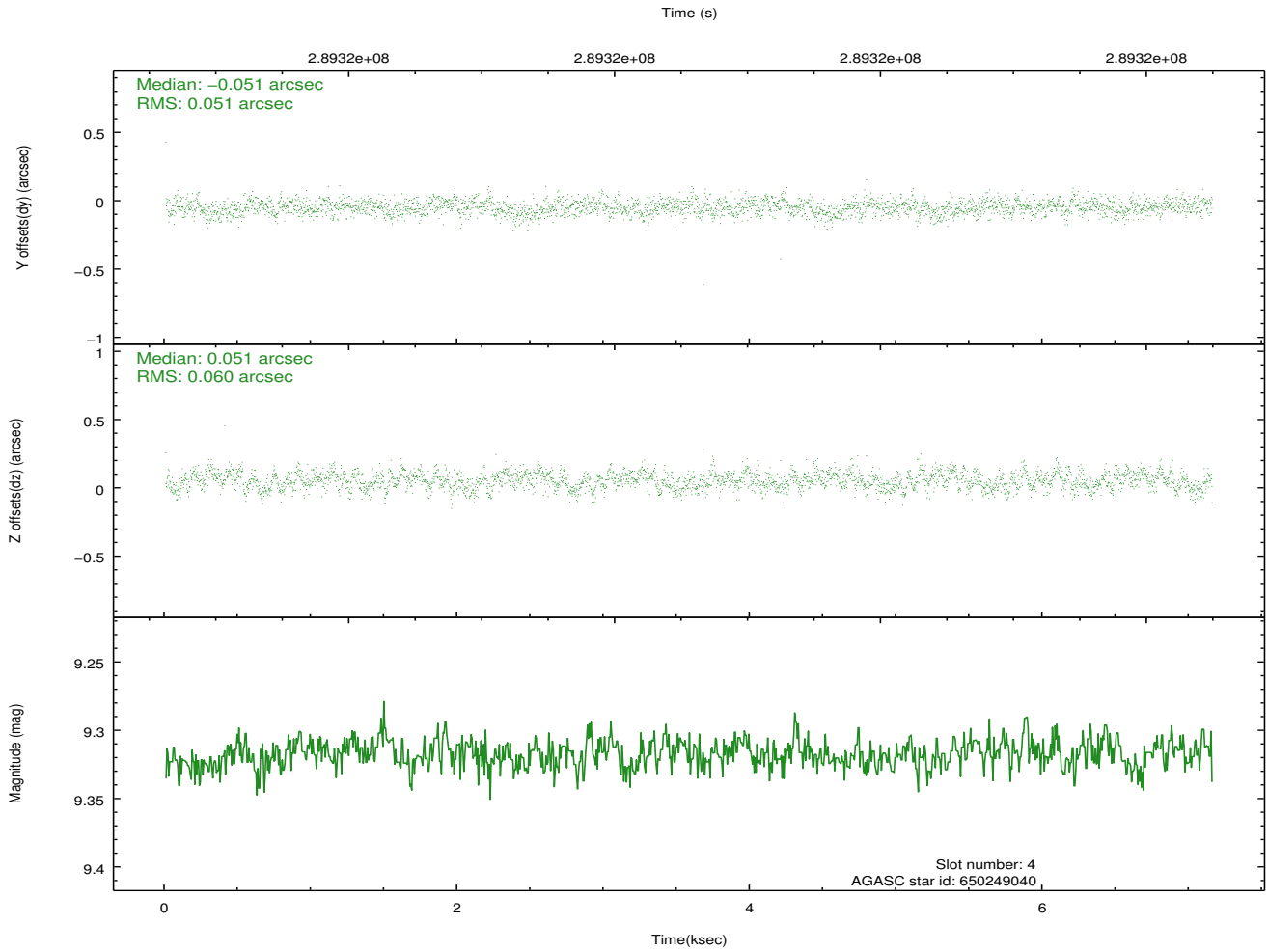
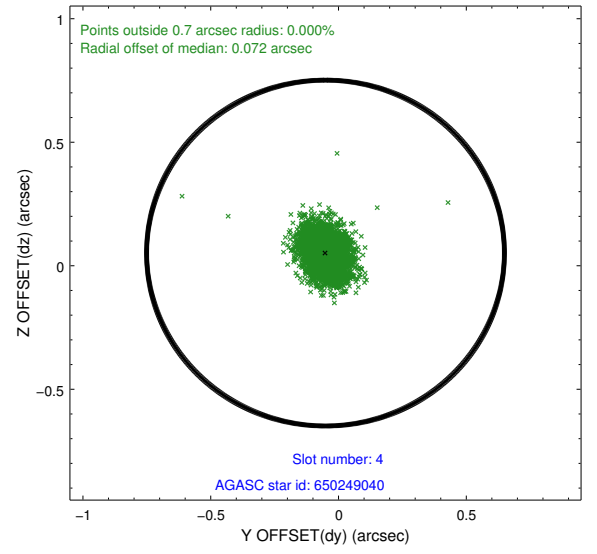
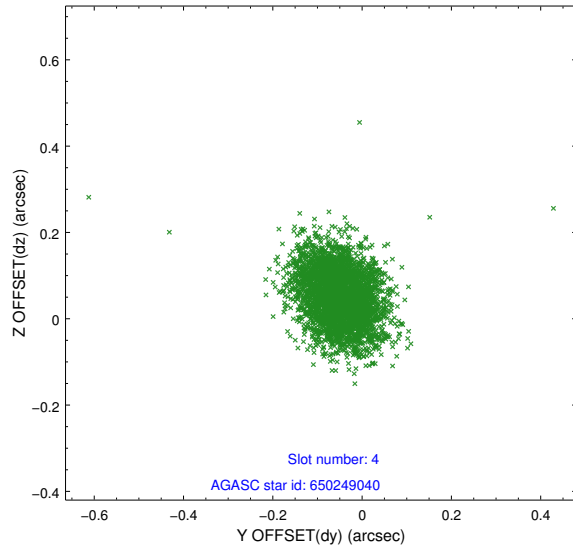
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	1745	0.027	0.004	0.007	0.011	0.000000	0.000000	926.90	-837.97
1	FID	ACIS-I-5	7.22	1745	-0.198	0.037	0.006	0.010	0.000000	0.000000	-1821.00	1059.13
2	FID	ACIS-I-6	7.24	1745	0.080	0.030	0.008	0.012	0.000000	0.000000	391.60	1704.55
3	GUIDE	650248984	8.88	3488	0.109	-0.185	0.075	0.119	197.683115	-3.291898	-485.53	274.60
4	GUIDE	650249040	9.32	3486	-0.051	0.051	0.083	0.135	197.994714	-3.007393	816.69	-503.64
5	BAD	650249416	9.33	232	-1.443	3.842	9.633	11.607	198.518267	-2.806982	2049.84	-2101.23
6	GUIDE	650250512	8.24	3488	0.042	-0.075	0.064	0.101	198.203283	-3.894601	-2028.17	-2137.45
7	GUIDE	650254416	6.89	3489	-0.098	0.212	0.051	0.084	198.338645	-3.494561	-510.32	-2190.94

2.4 Star Slots

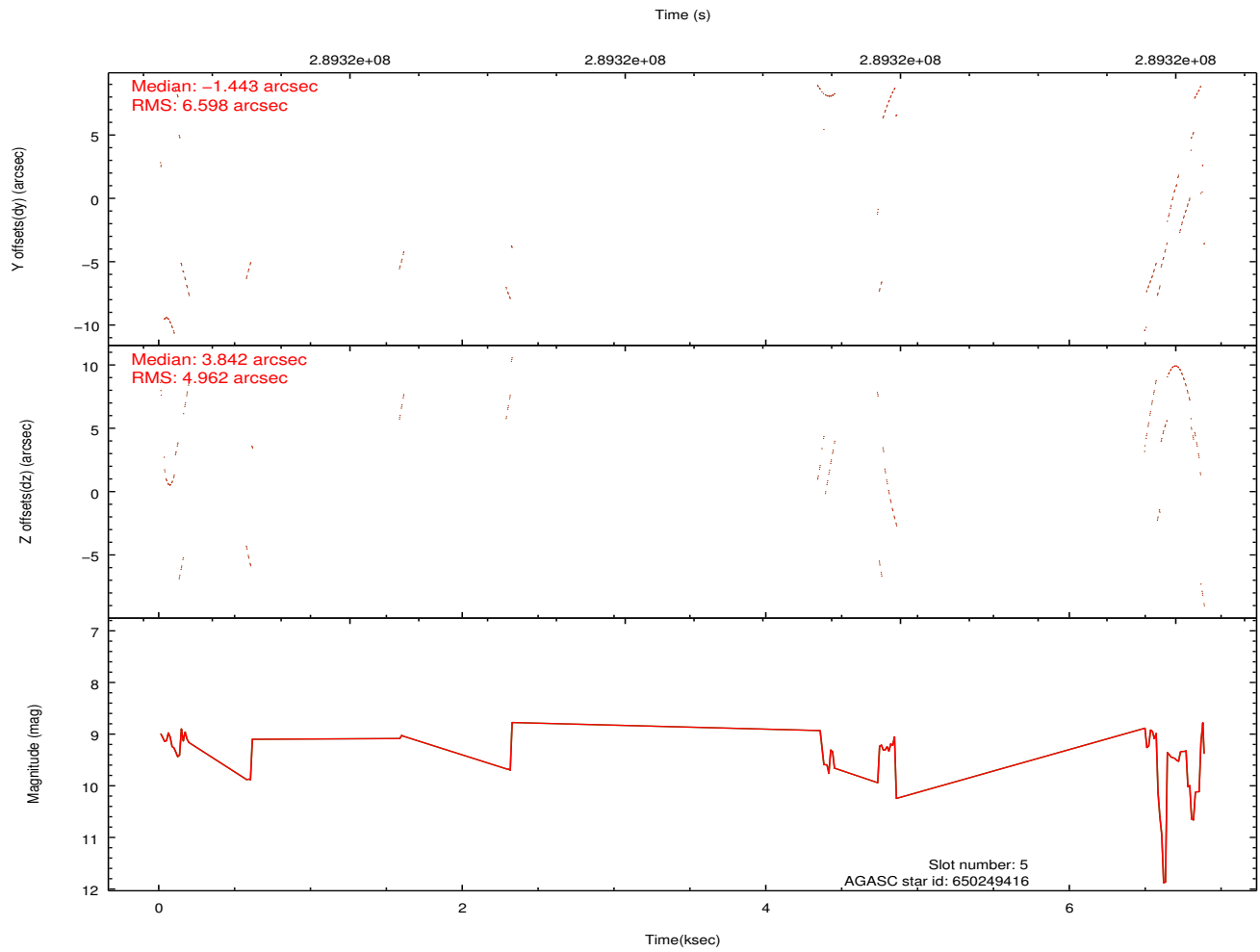
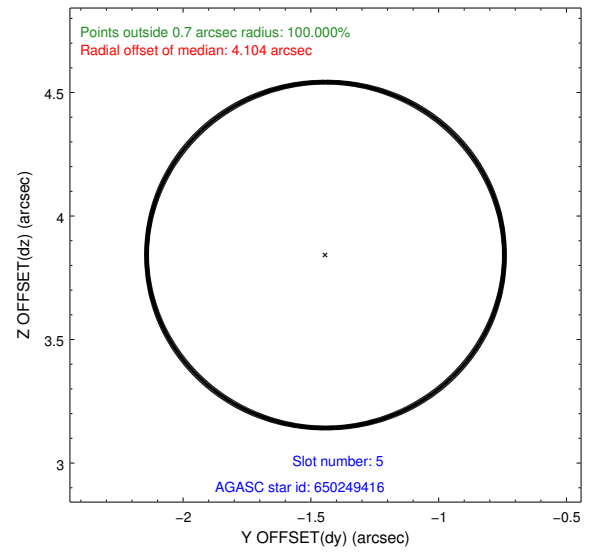
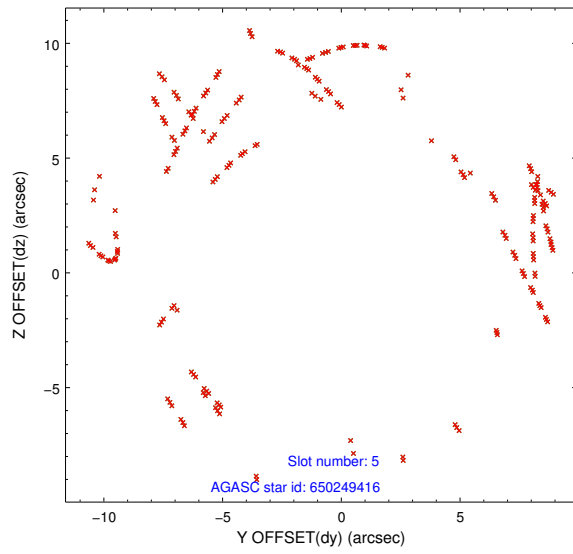
2.4.1 Slot 3



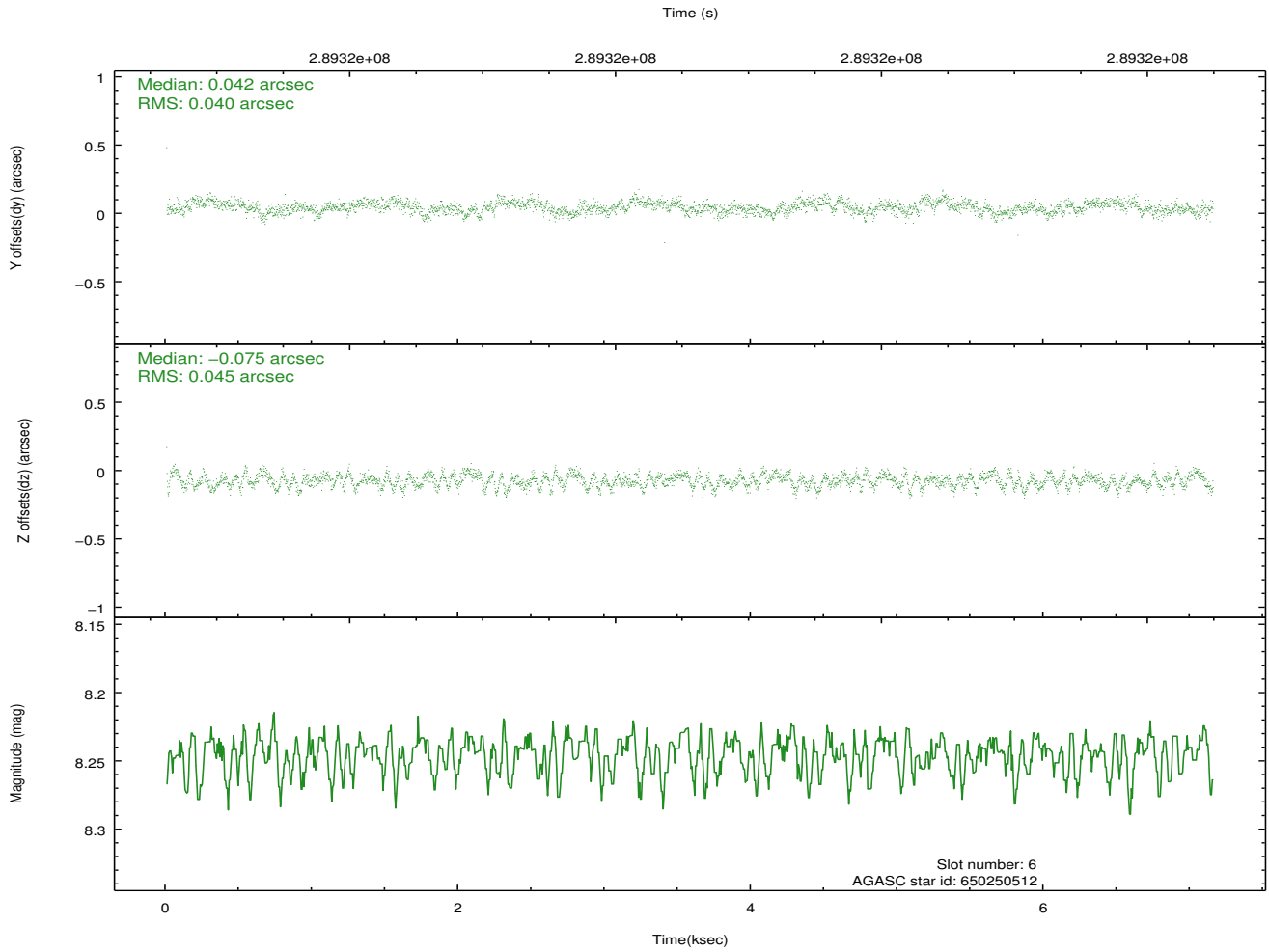
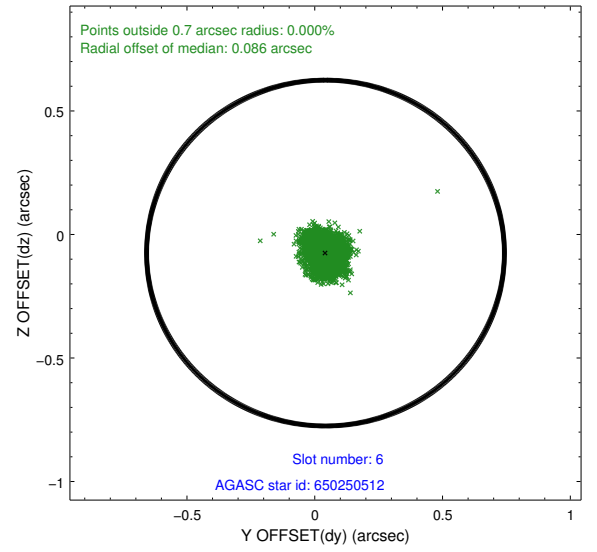
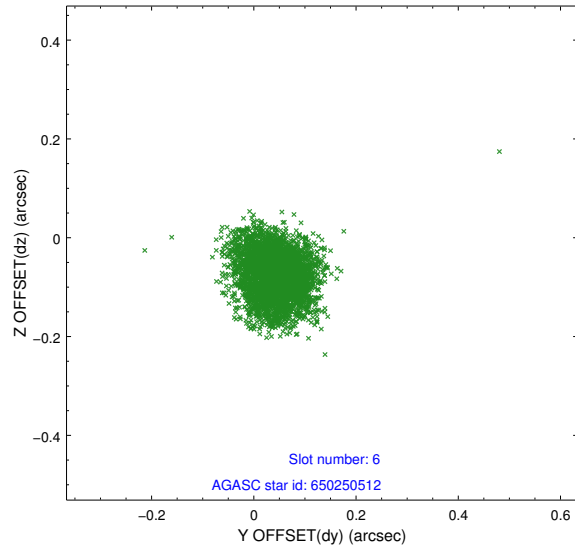
2.4.2 Slot 4



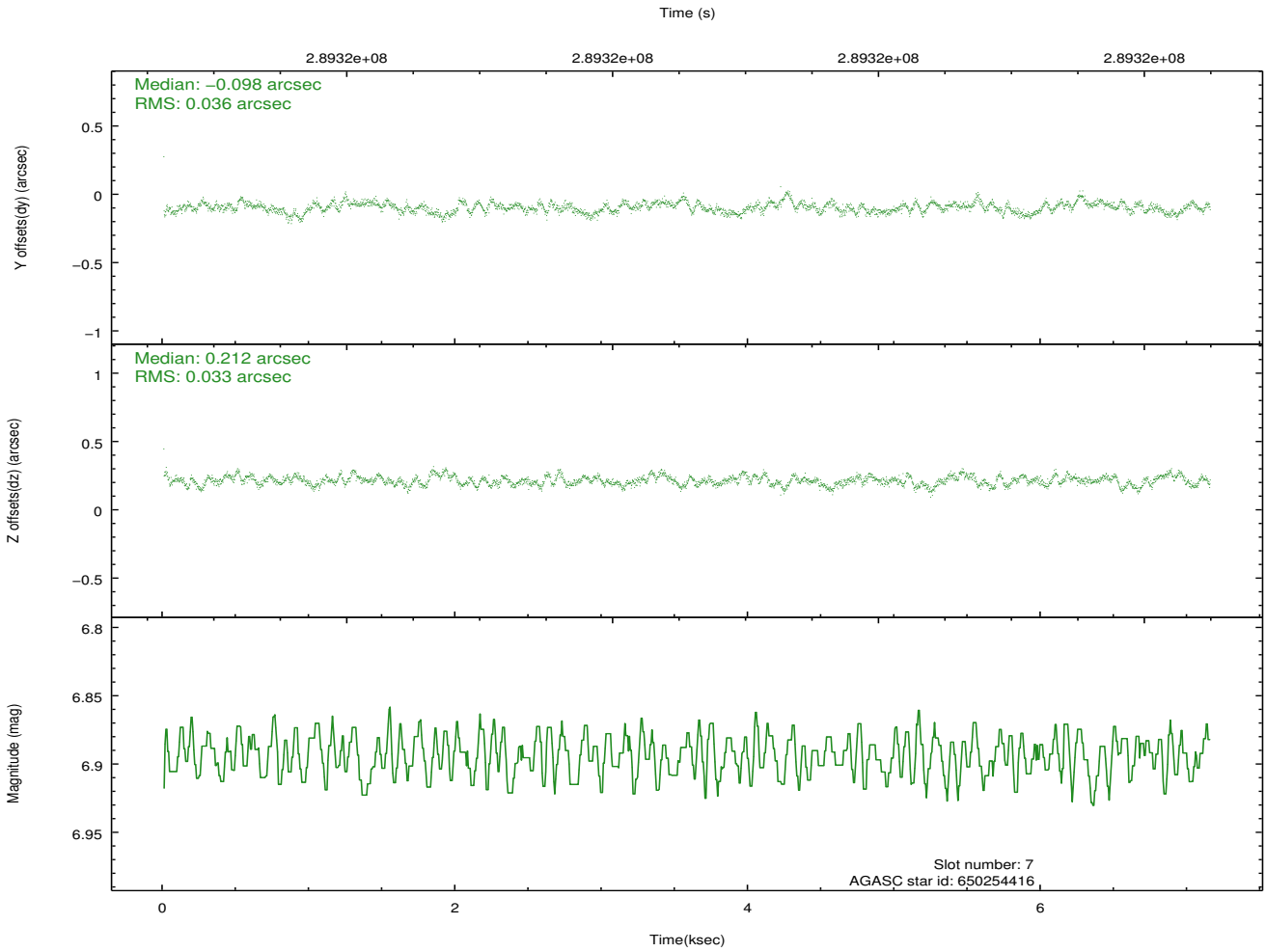
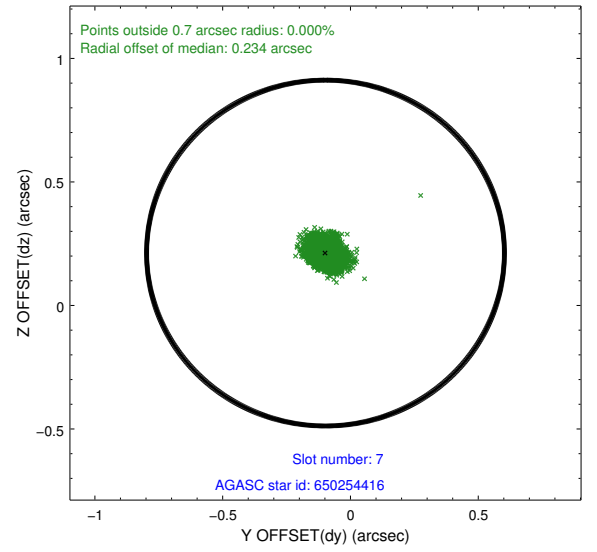
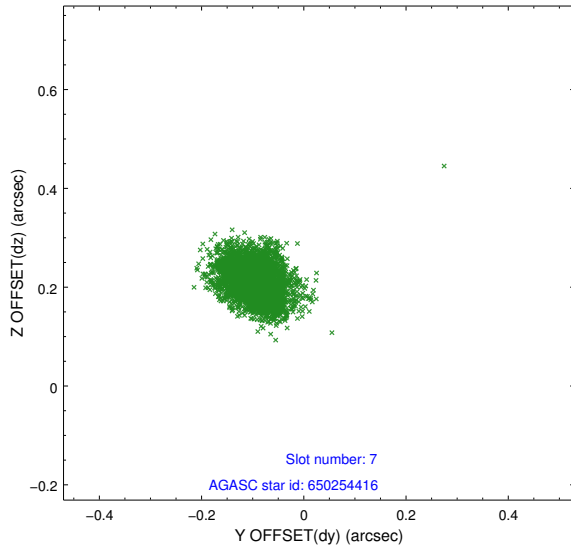
2.4.3 Slot 5



2.4.4 Slot 6

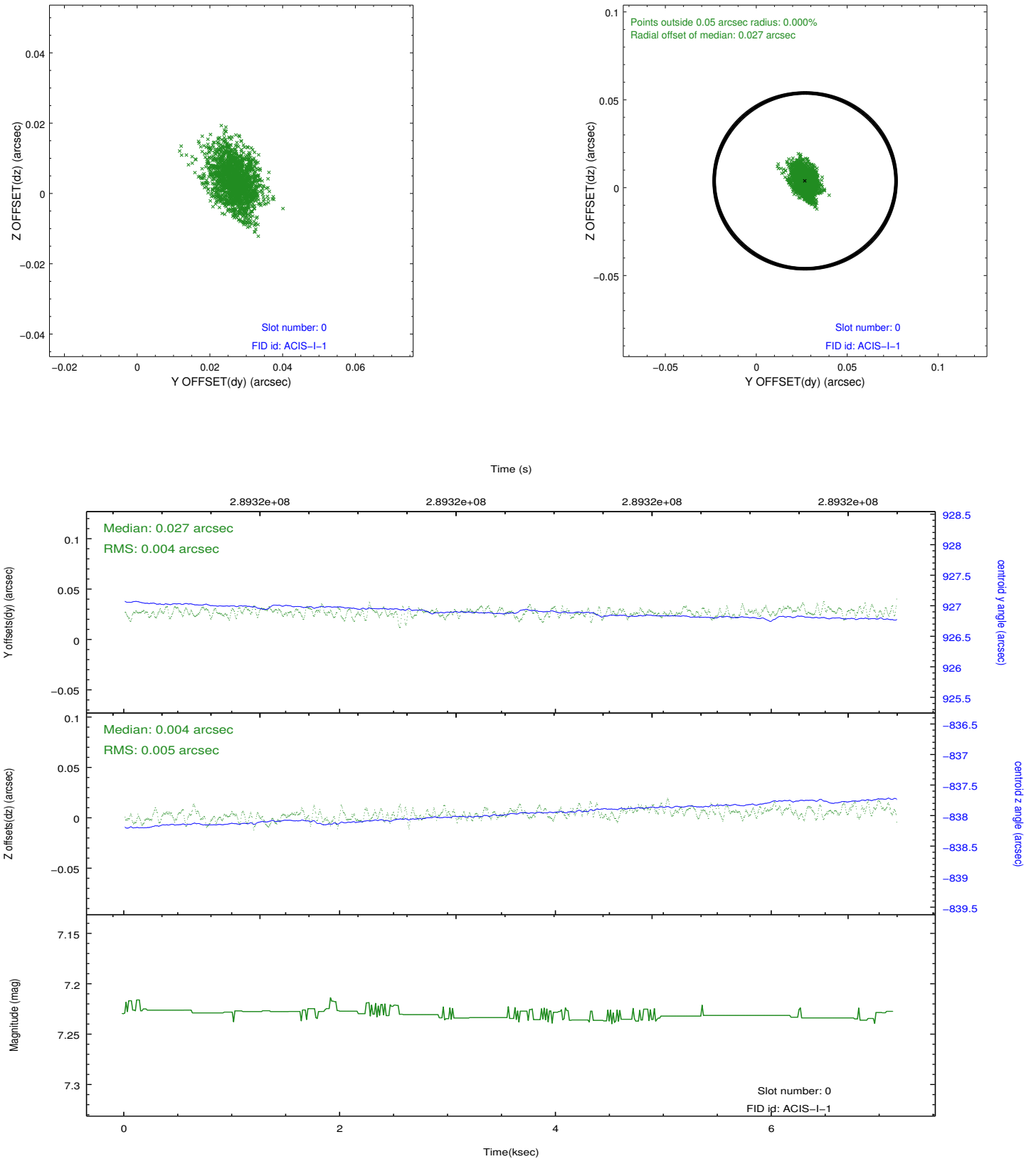


2.4.5 Slot 7

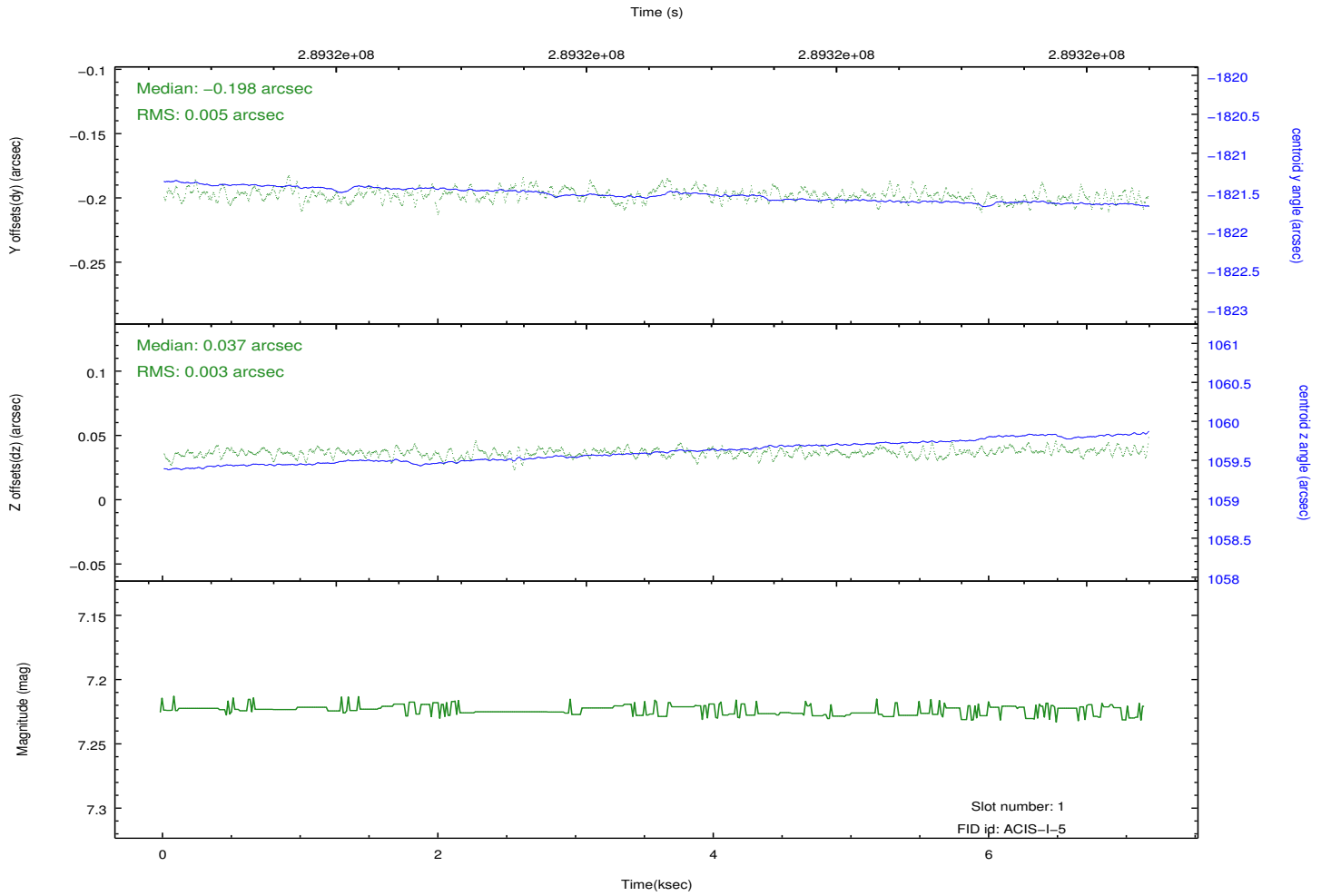
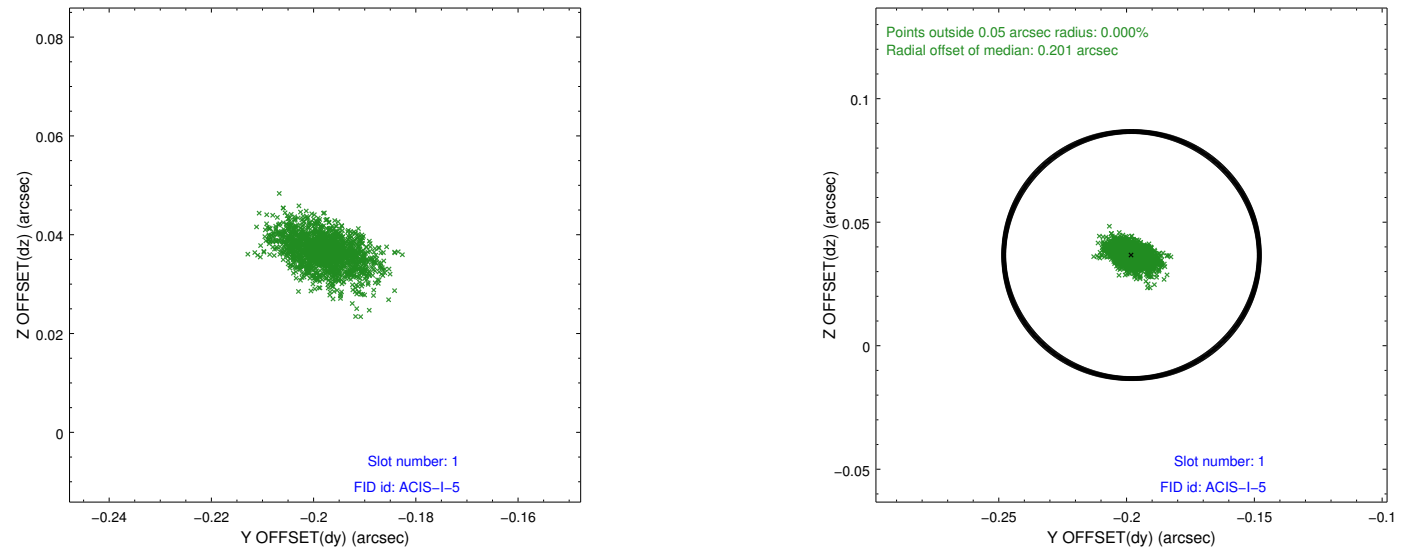


2.5 FID Slots

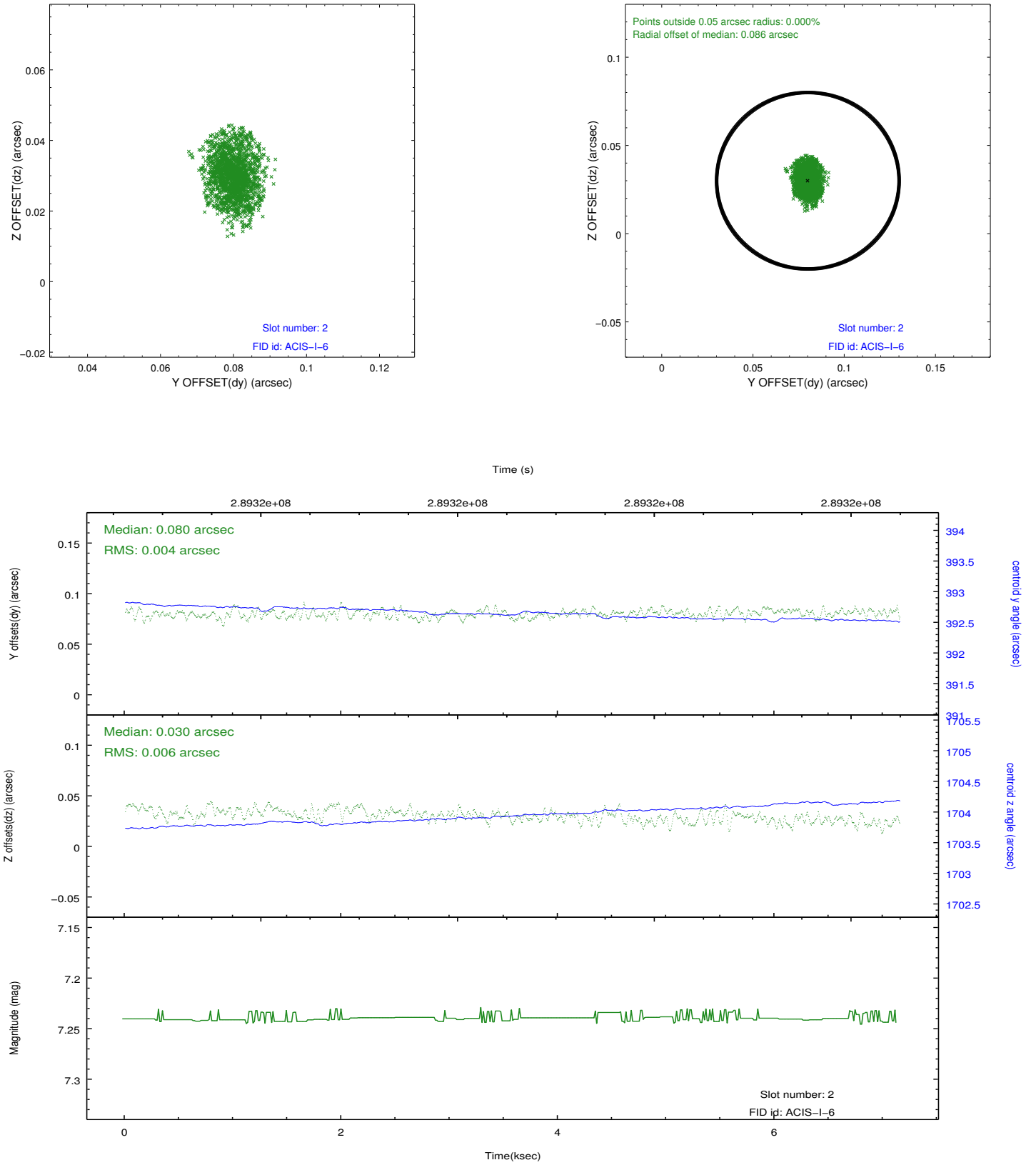
2.5.1 Slot 0



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)	2012.04.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.14545905

A.2 Comments

The guide star in slot 5 was excluded from the aspect solution due to poor data quality. The aspect solution is improved by the exclusion of this star from the solution.