

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2120 - L2 Version 4
Chandra X-Ray Center

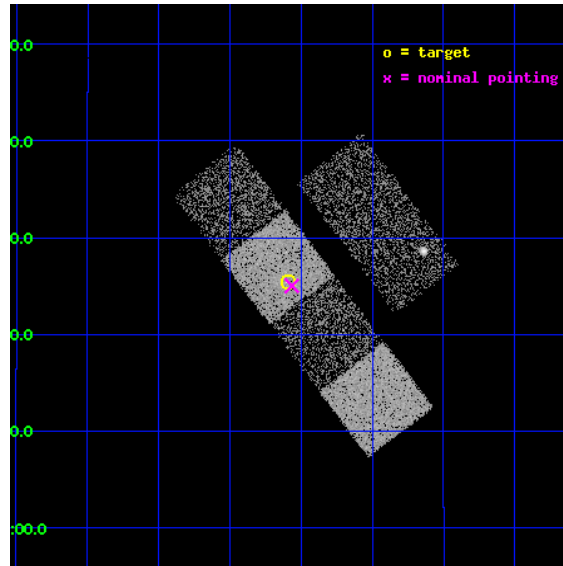
L2 Processing Date : Oct 12 2012

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1 Front

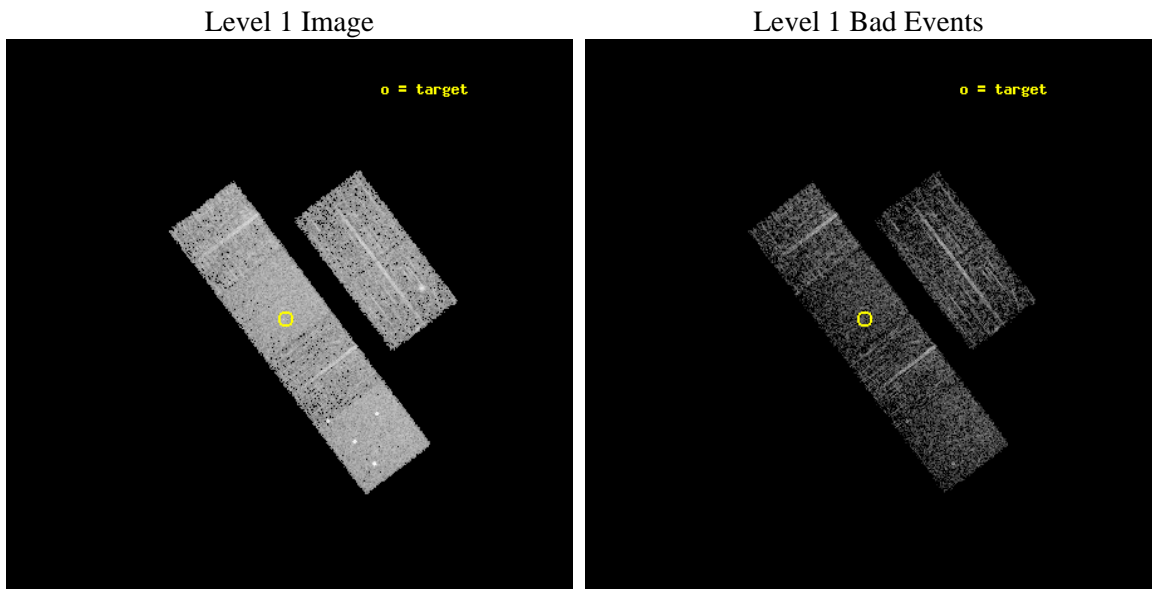
seq_num	700310	Sequence number
obs_id	2120	Observation id
title	UNDERSTANDING THE NATURE OF ROSAT BFS	Proposal title
observer	DR. ILARIA CAGNONI	Principal investigator
object	1WGA_J1420.0+0625	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.023333	Observer's specified target RA [deg]
dec_targ	6.423611	Observer's specified target Dec [deg]
ra_nom	215.01615112111	Nominal RA [deg]
dec_nom	6.4170860749069	Nominal Dec [deg]
roll_nom	232.87011537091	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2988.4127594829	Sum of GTIs [s]
livetime	2950.5716777162	Livetime [s]
ontime2	2988.4537994862	Sum of GTIs [s]
ontime3	2988.2896394879	Sum of GTIs [s]
ontime5	2988.3717194796	Sum of GTIs [s]
ontime6	2988.3306794912	Sum of GTIs [s]
ontime7	2988.4127594829	Sum of GTIs [s]
ontime8	2988.2485994846	Sum of GTIs [s]
l2events	30762	Number of level 2 events



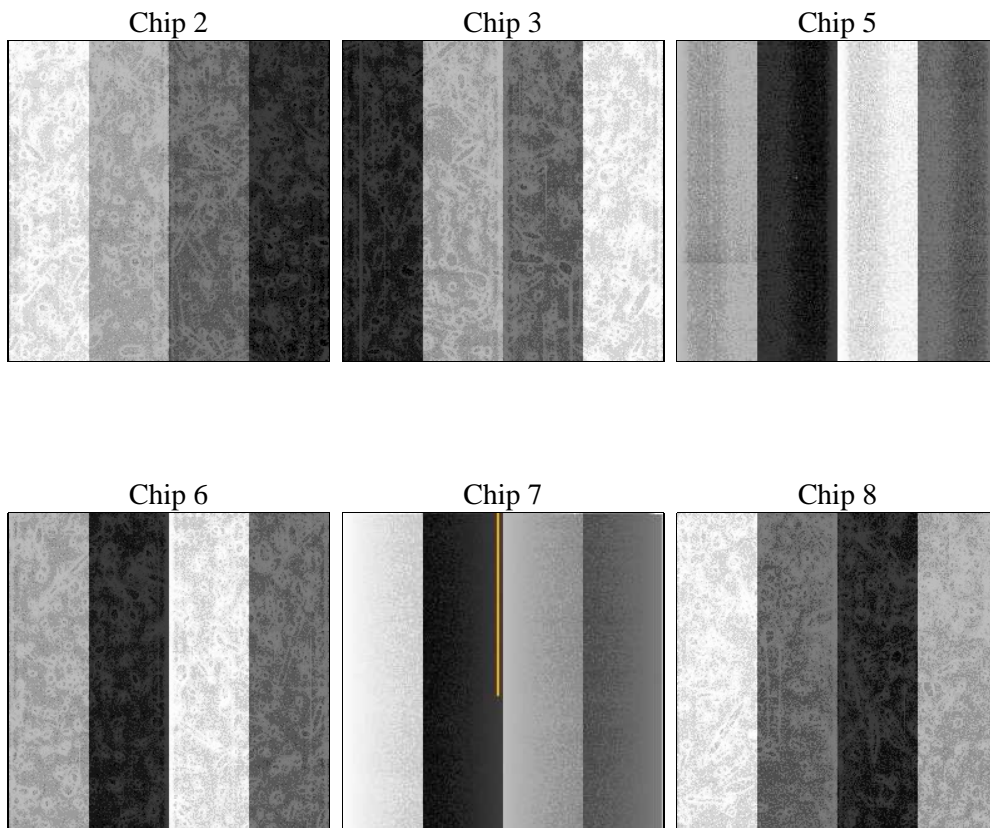
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	3040.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2988.4127594829	Sum of GTIs [s]
caldsver	4.5.2	 	ontime2	2988.4537994862	Sum of GTIs [s]
date	2012-10-12T16:18:38	Date and time of file creation	ontime3	2988.2896394879	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	2988.3717194796	Sum of GTIs [s]
			ontime6	2988.3306794912	Sum of GTIs [s]
			ontime7	2988.4127594829	Sum of GTIs [s]
			ontime8	2988.2485994846	Sum of GTIs [s]
			l1events	138119	Number of level 1 events

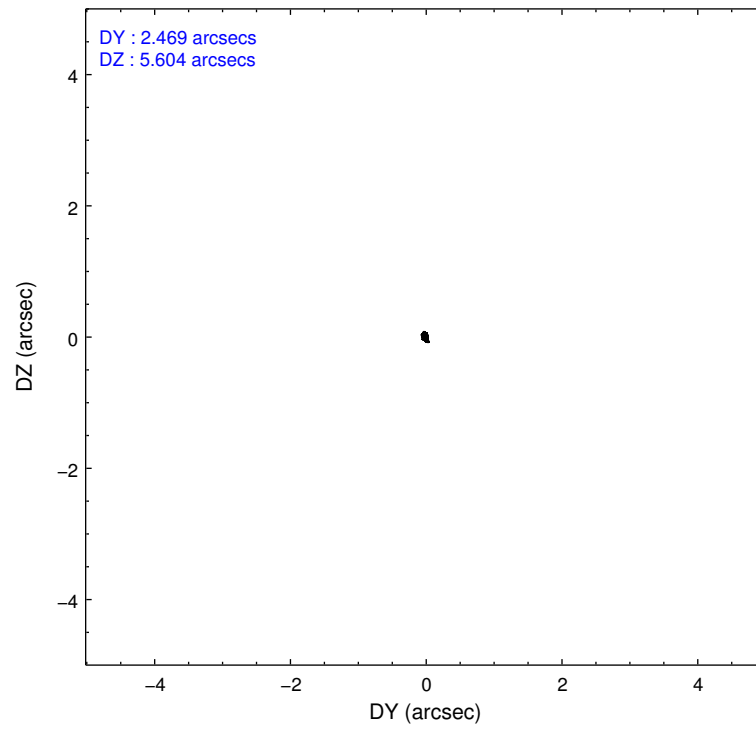
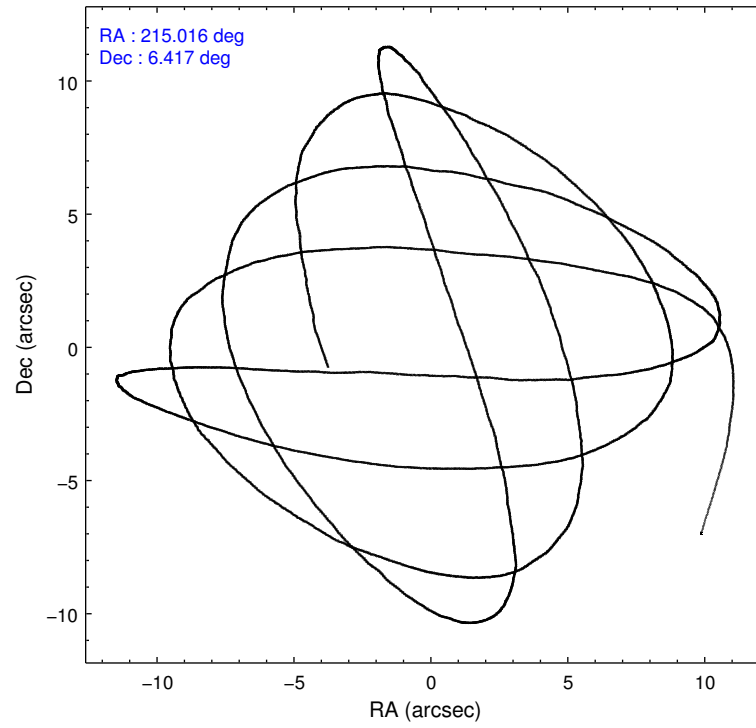
2.1.4 Events

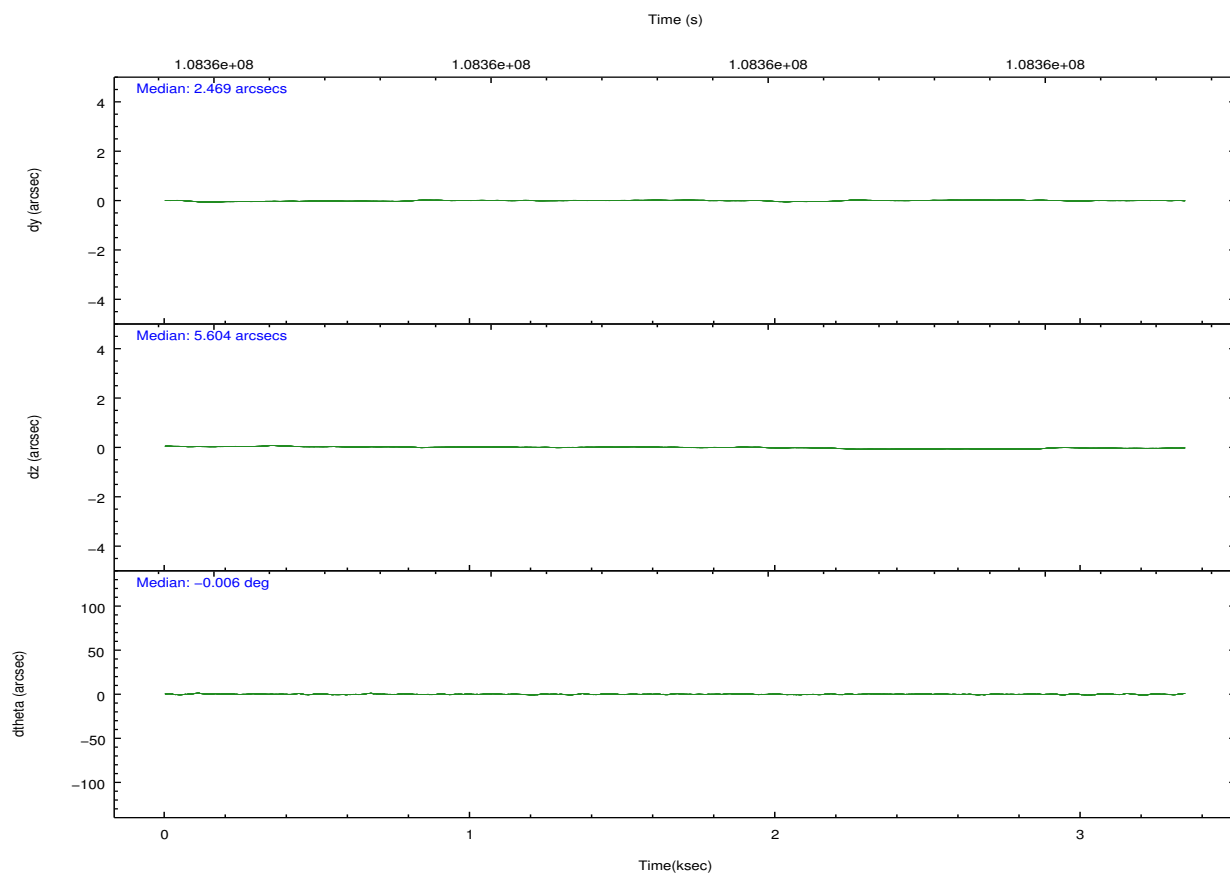
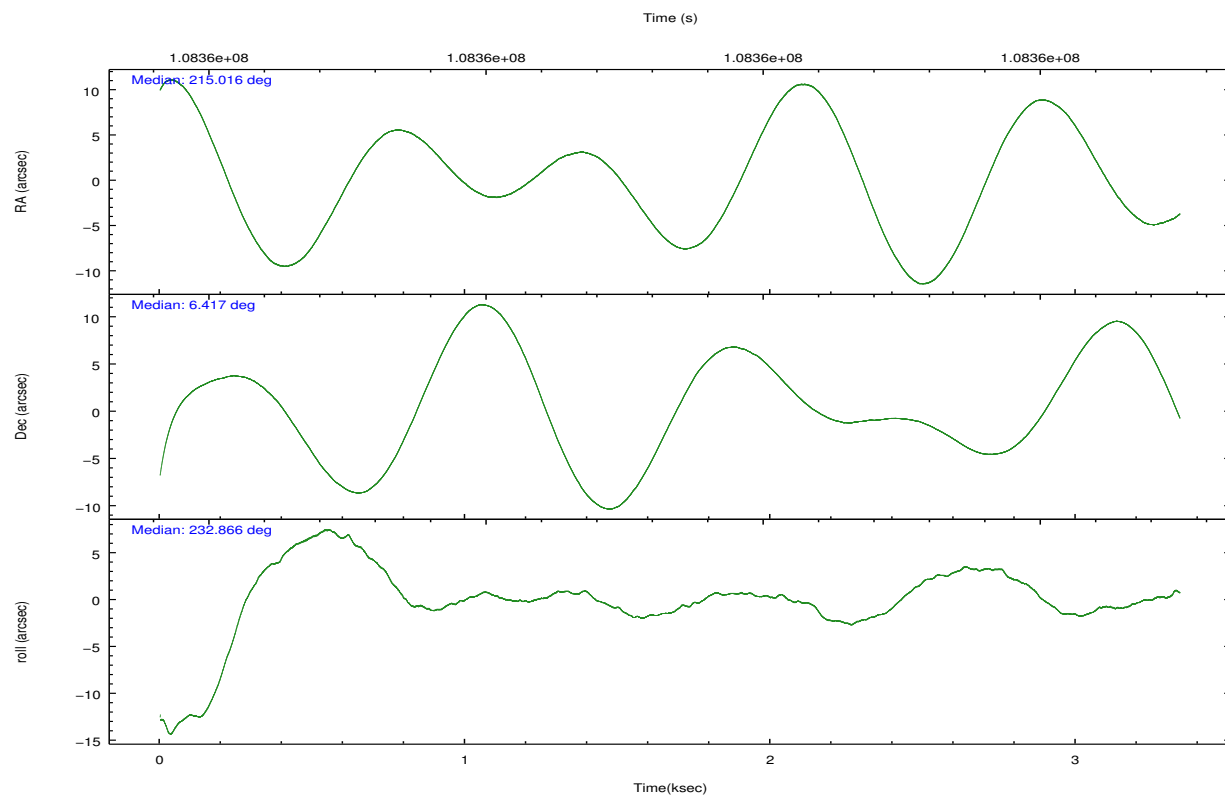
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	20841	18645	28922	19460	25268	24983	grade 0 events	1434	957	2555	1019	1094	1750
rejected events	18026	16459	14880	17071	14563	19995		6%	5%	8%	5%	4%	7%
rejected %	86%	88%	51%	87%	57%	80%	grade 1 events	19	6	131	9	19	16
								0%	0%	0%	0%	0%	0%
							grade 2 events	575	434	3918	485	2124	1045
								2%	2%	13%	2%	8%	4%
							grade 3 events	211	206	523	236	976	569
								1%	1%	1%	1%	3%	2%
							grade 4 events	219	207	522	217	962	542
								1%	1%	1%	1%	3%	2%
							grade 5 events	688	746	2036	762	2376	1033
								3%	4%	7%	3%	9%	4%
							grade 6 events	382	396	6553	438	5563	1130
								1%	2%	22%	2%	22%	4%
							grade 7 events	17313	15693	12684	16294	12154	18898
								83%	84%	43%	83%	48%	75%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	215.019218	215.0161511211066	Subarray requested	NONE	NONE
[deg] Pointing Dec	6.444106	6.417086074906856	Alternating exposures requested	N	N
[deg] Pointing Roll	232.713136	232.8701153709061	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	108358295.184000	108357264.31712			
Observation start date	2001-06-08T03:30:31	2001-06-08T03:14:24			
[s] Observation end time (MET)	108361335.184000	108361864.5173			
Observation end date	2001-06-08T04:21:11	2001-06-08T04:31:04			
Read mode	TIMED	TIMED			

2.3 Aspect



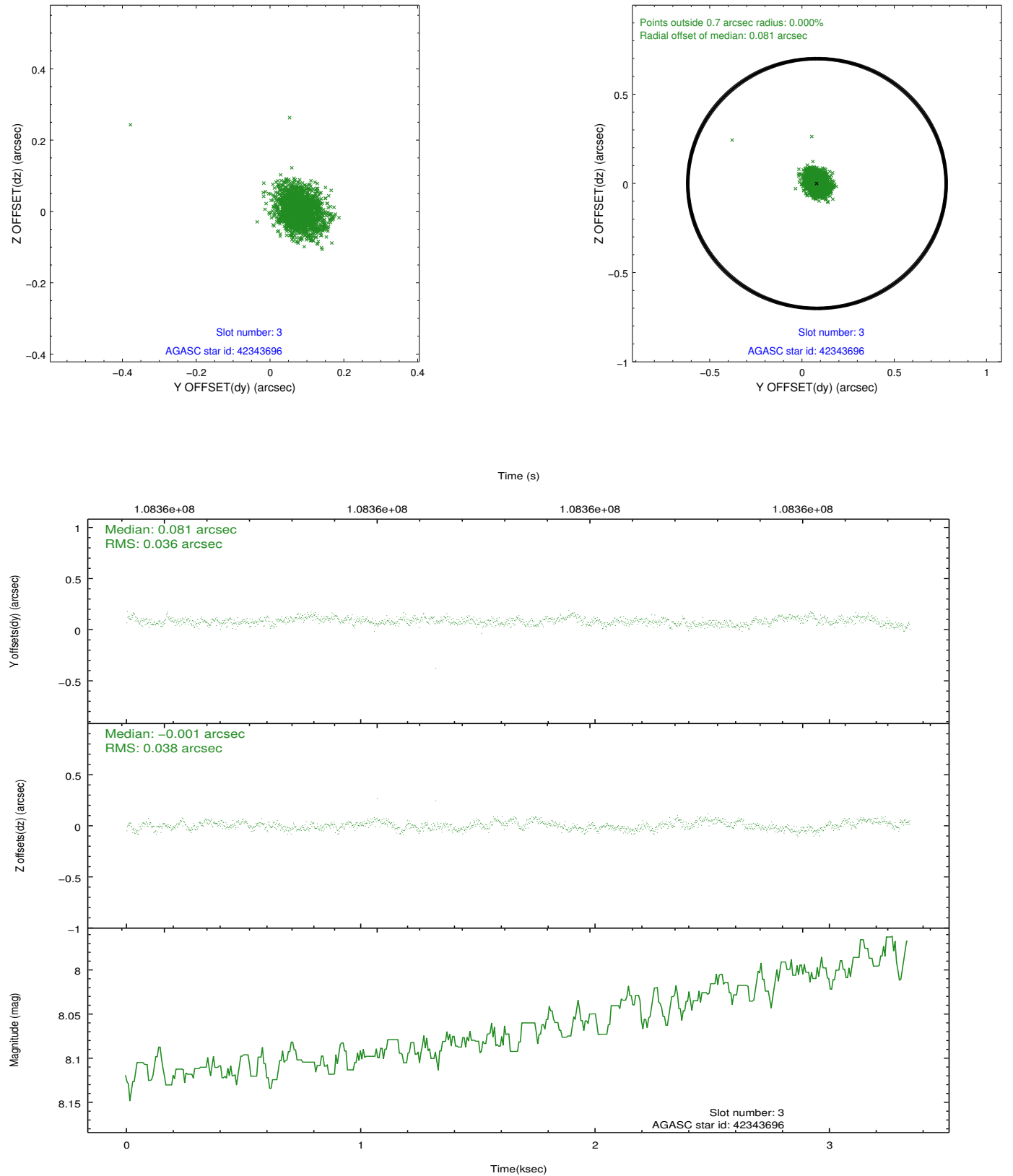


Slot Statistics

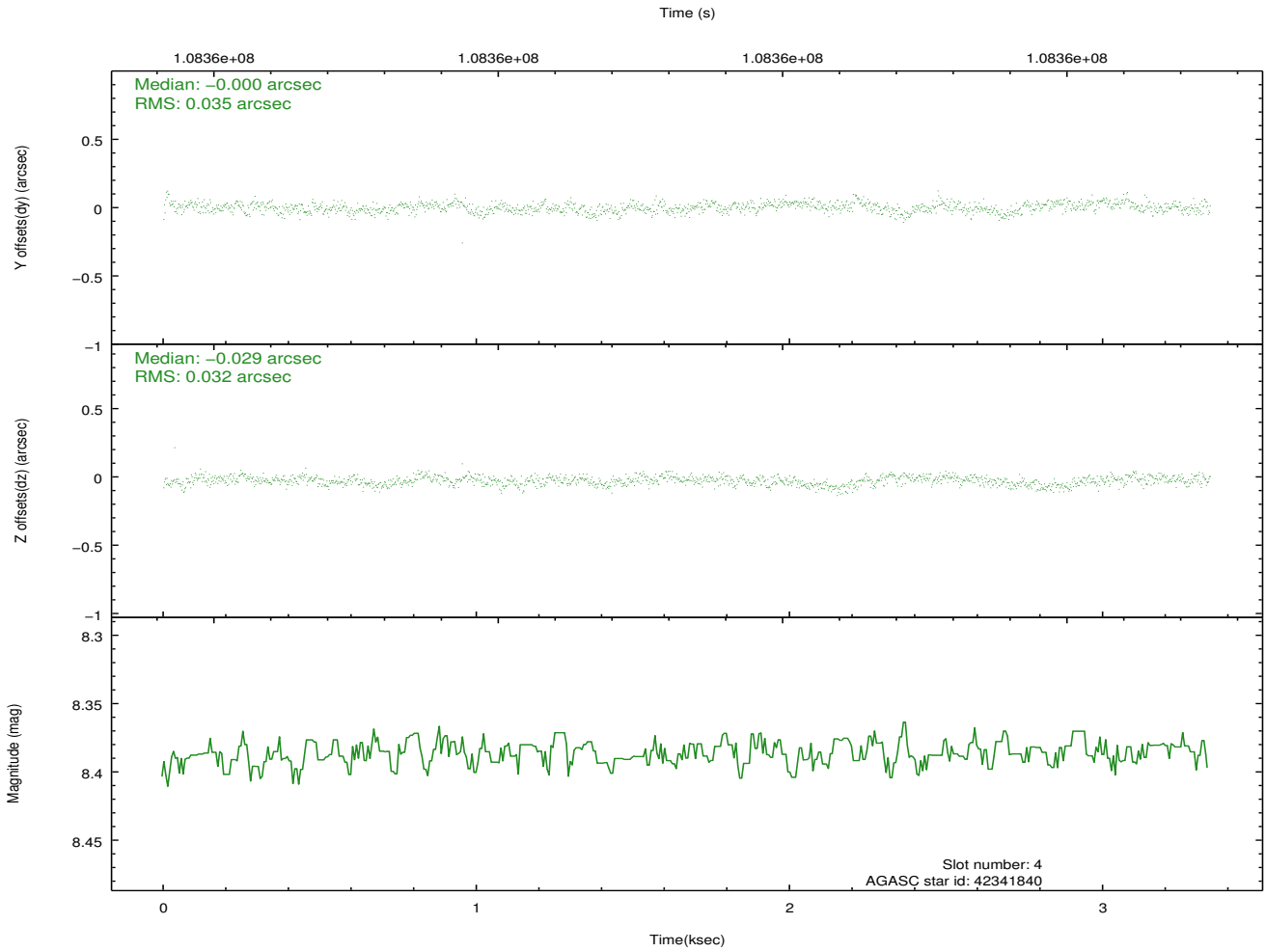
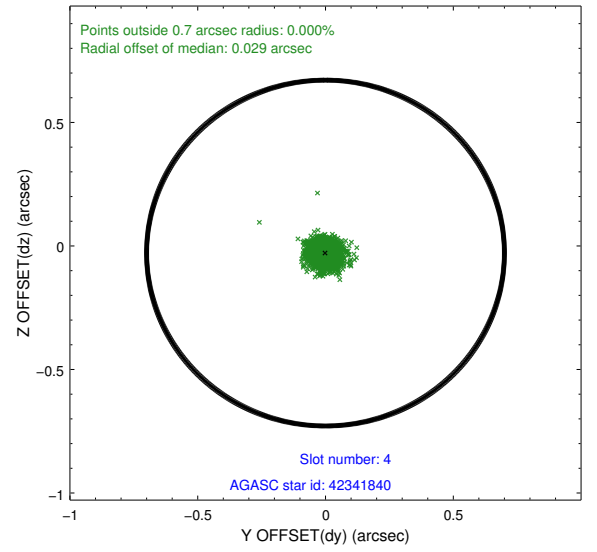
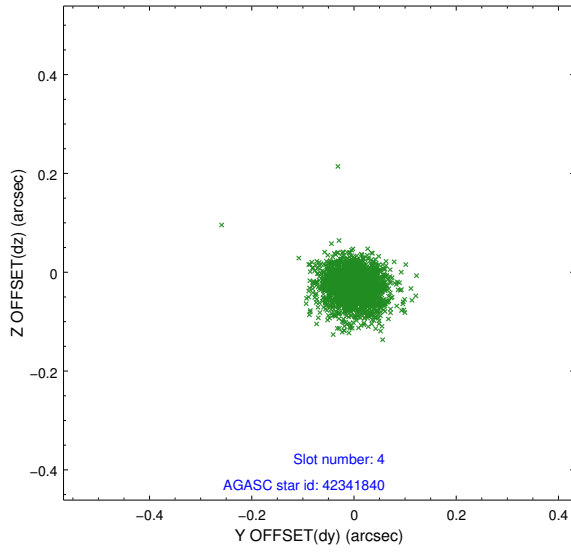
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	815	-0.037	-0.002	0.006	0.010	0.000000	0.000000	-755.08	-1726.75
1	FID	ACIS-S-4	7.20	815	-0.025	0.018	0.005	0.009	0.000000	0.000000	2157.30	179.88
2	FID	ACIS-S-5	7.24	815	0.030	-0.008	0.006	0.011	0.000000	0.000000	-1805.46	175.58
3	GUIDE	42343696	8.07	1631	0.081	-0.001	0.054	0.085	214.907250	5.896291	1811.78	876.44
4	GUIDE	42341840	8.39	1631	-0.000	-0.029	0.050	0.080	214.867062	5.854194	2020.49	854.26
5	GUIDE	42474848	7.66	1630	-0.172	0.046	0.053	0.080	215.355097	6.442439	-722.63	960.49
6	GUIDE	42342360	8.82	1631	0.080	-0.040	0.057	0.095	214.659937	6.232653	1383.65	-560.81
7	GUIDE	42338104	9.80	1628	0.006	0.016	0.123	0.201	214.872561	6.378797	505.49	-274.72

2.4 Star Slots

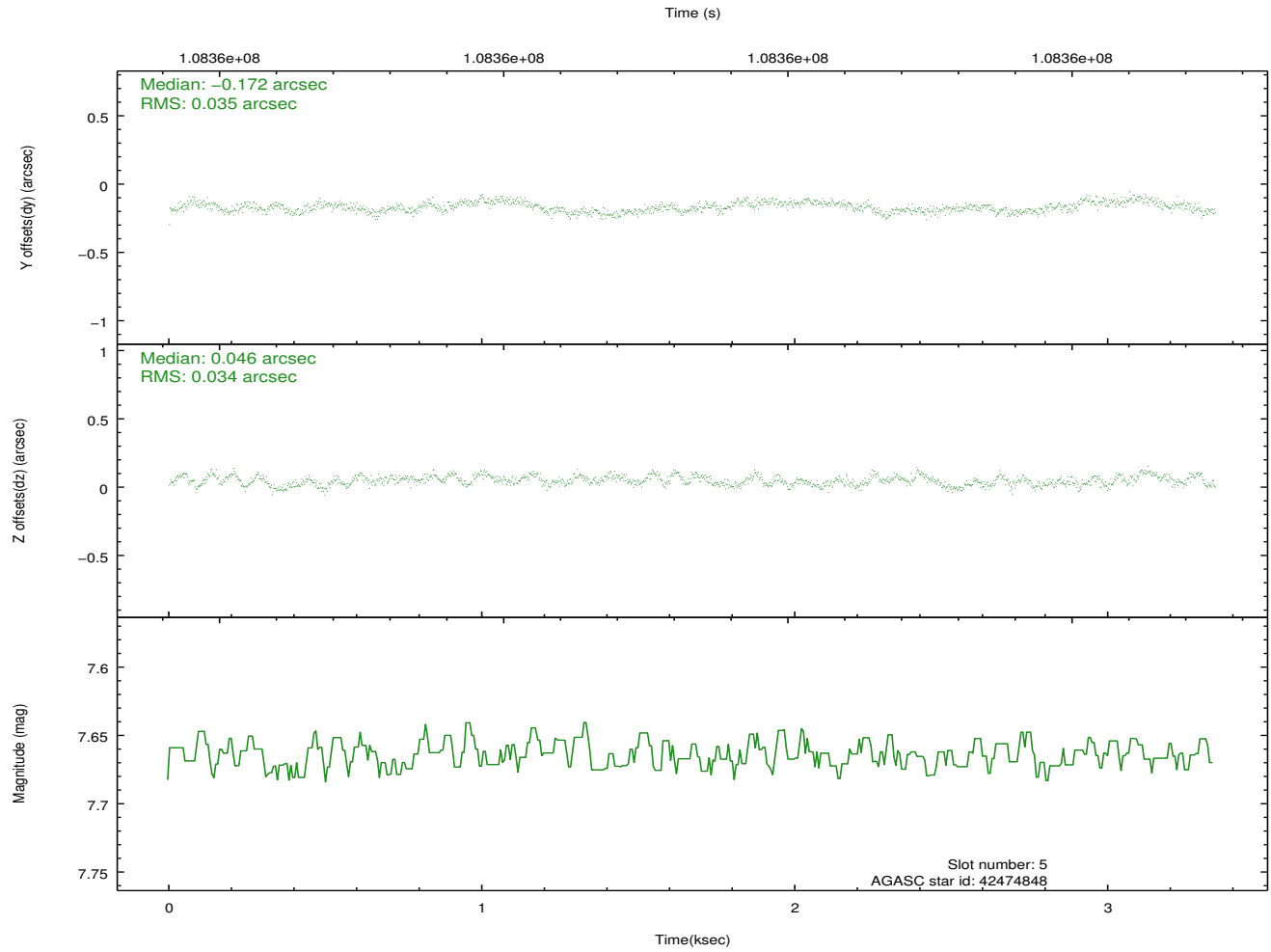
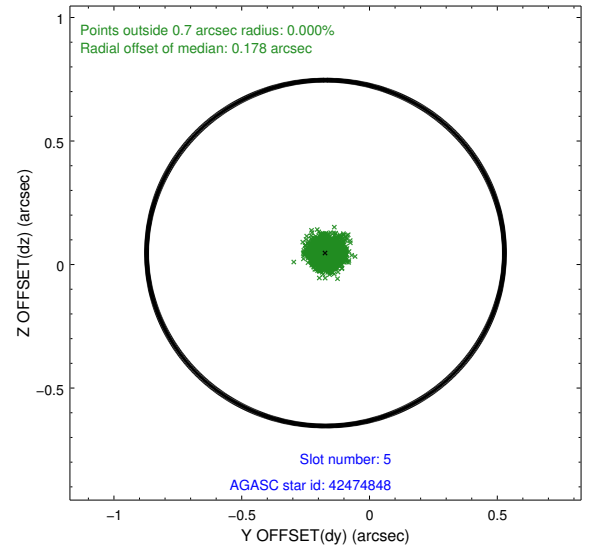
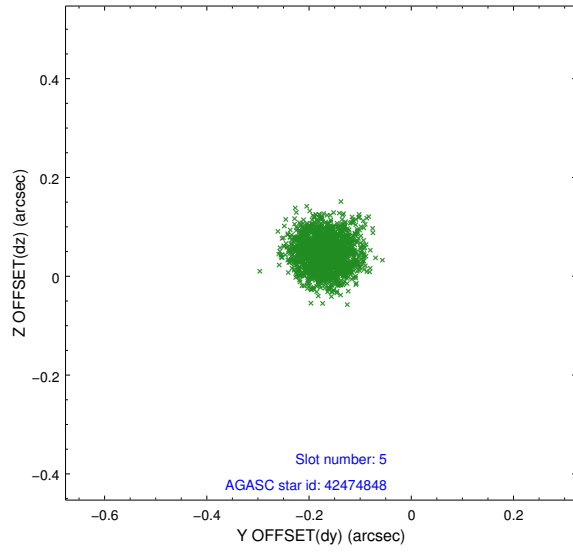
2.4.1 Slot 3



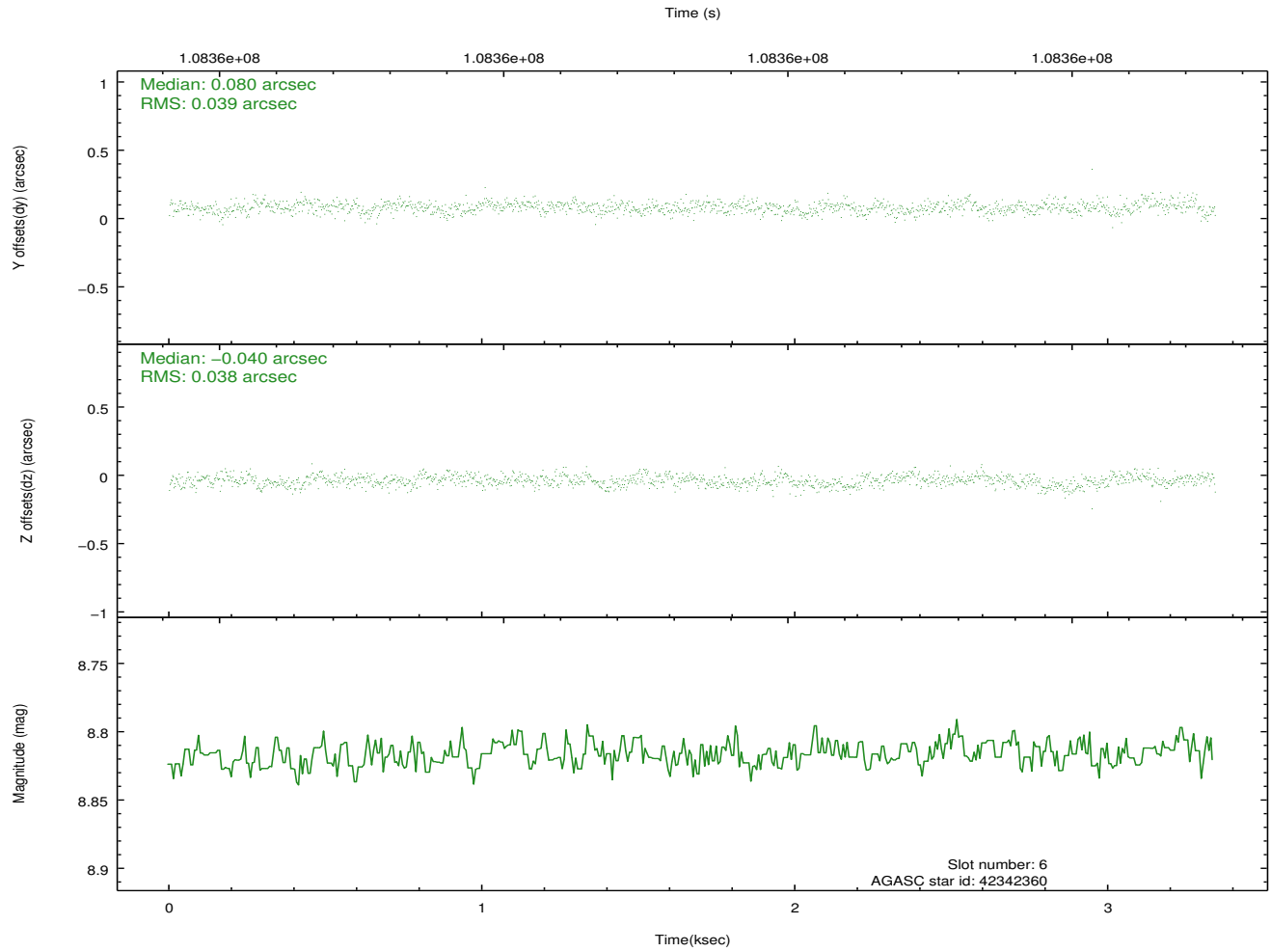
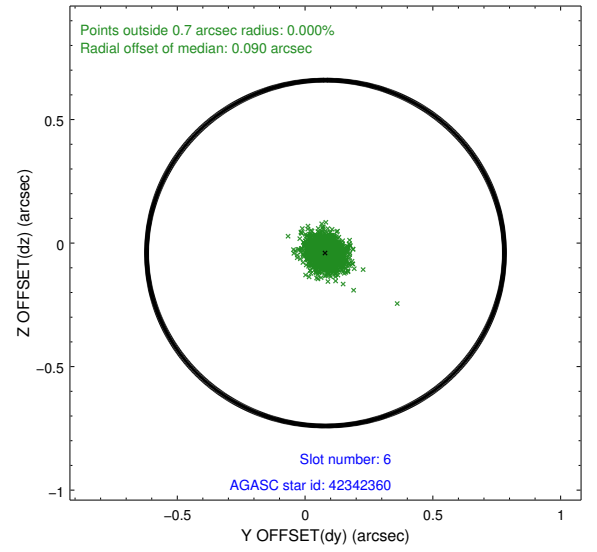
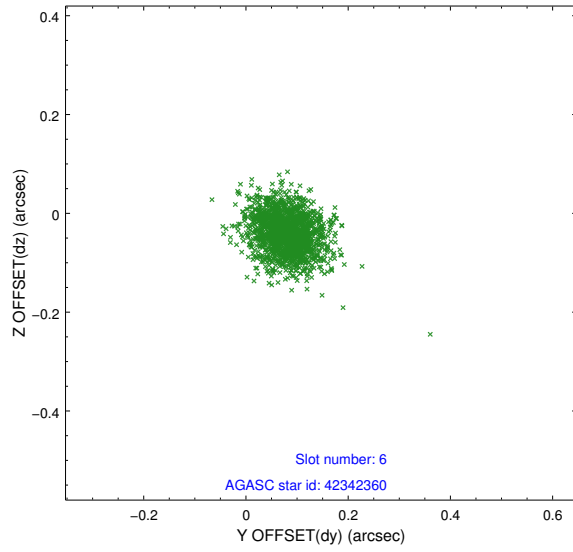
2.4.2 Slot 4



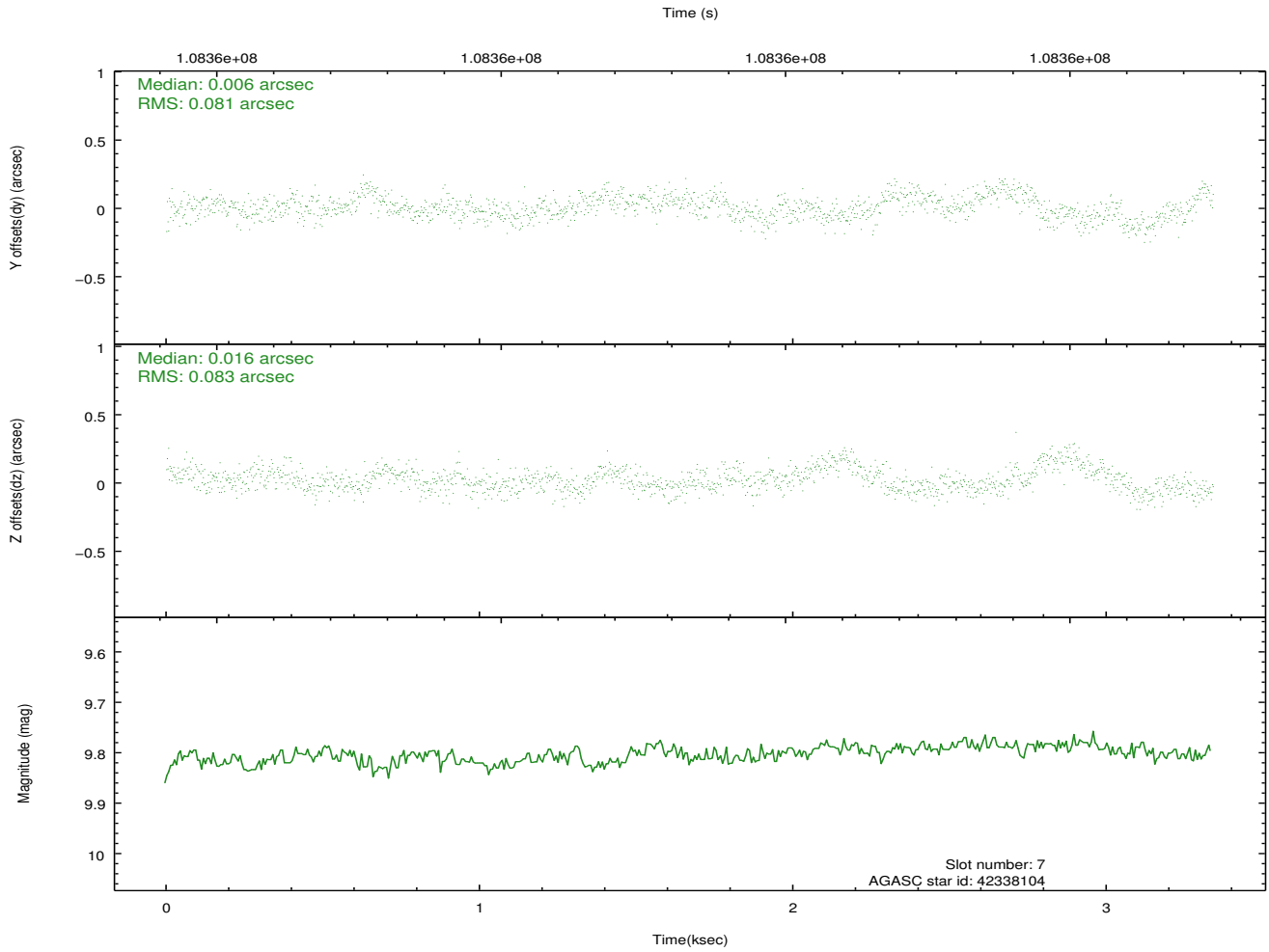
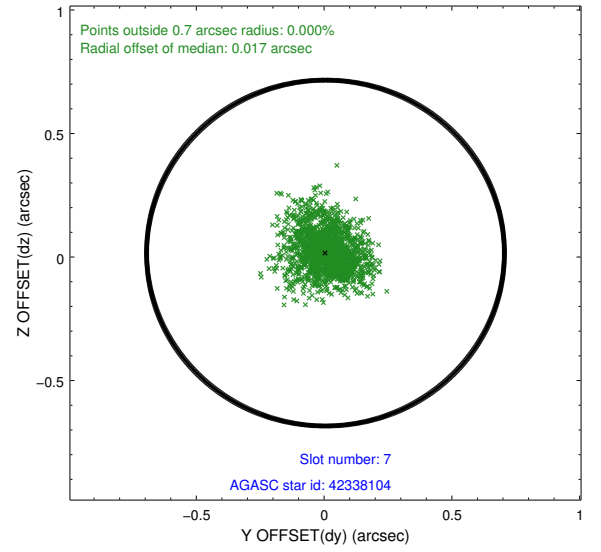
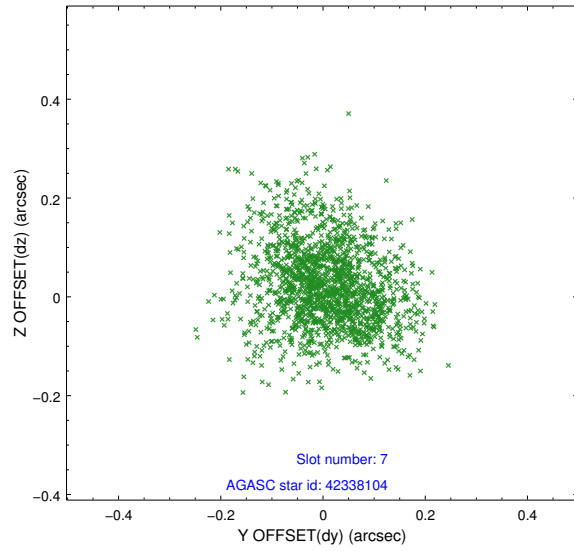
2.4.3 Slot 5



2.4.4 Slot 6

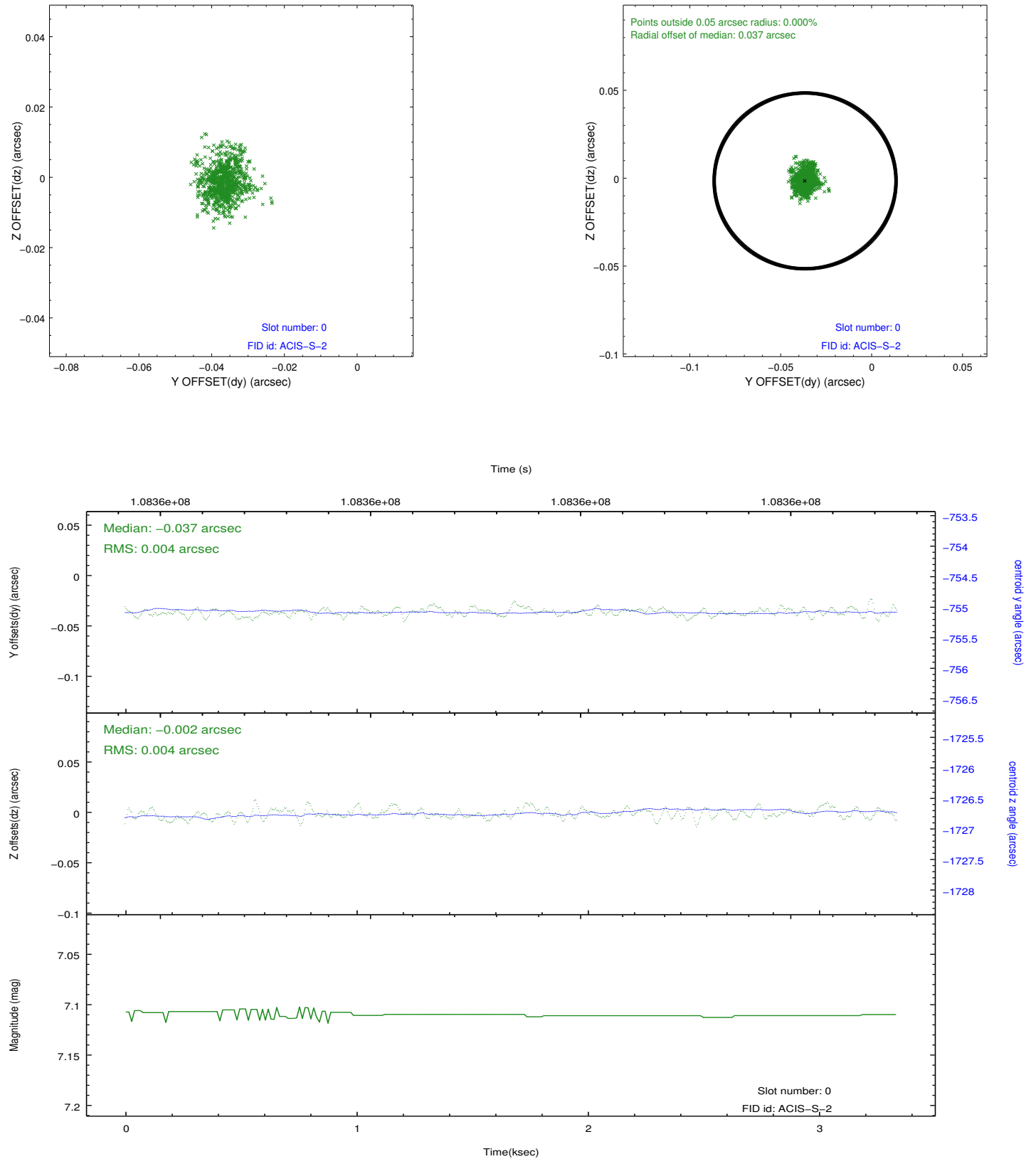


2.4.5 Slot 7

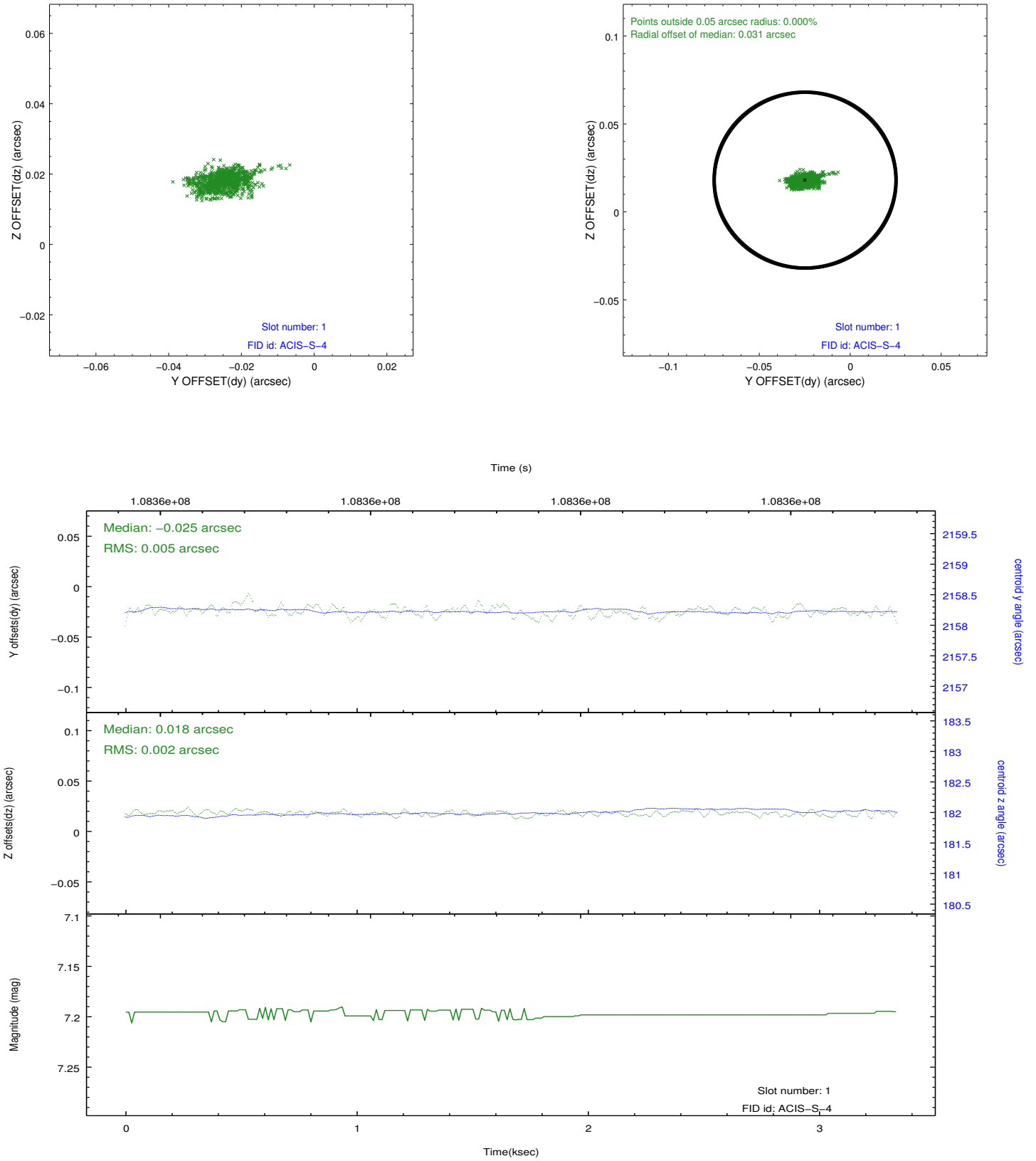


2.5 FID Slots

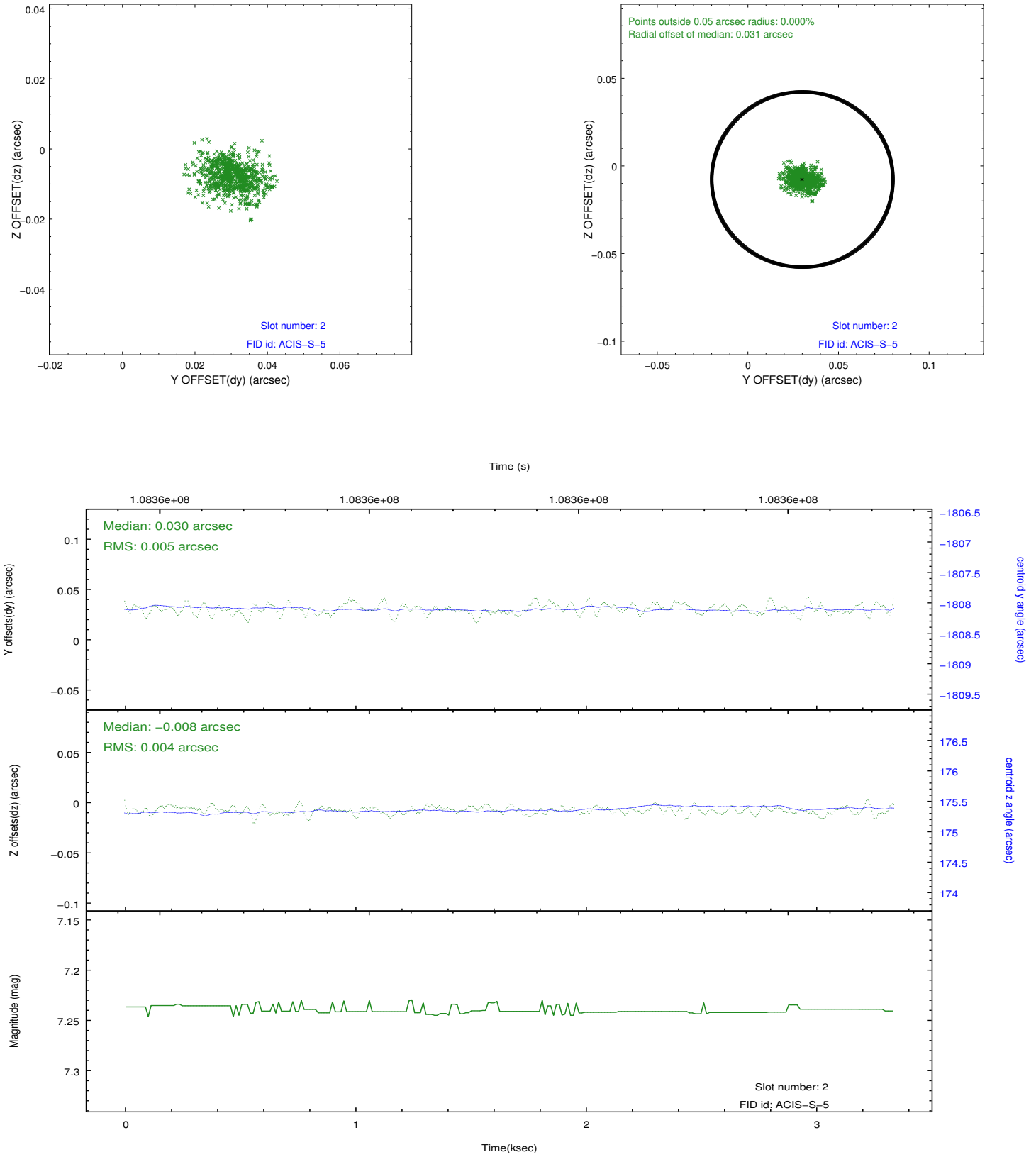
2.5.1 Slot 0



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)	2012.10.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.988

A.2 Comments

A spatial region of the original bias map for CCD = 2 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~ 20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 2 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:
(214.72735,6.45109), (214.74324,6.43920), (214.79009,6.50074), (214.76824,6.50480)