

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17066 - L2 Version 2
Chandra X-Ray Center

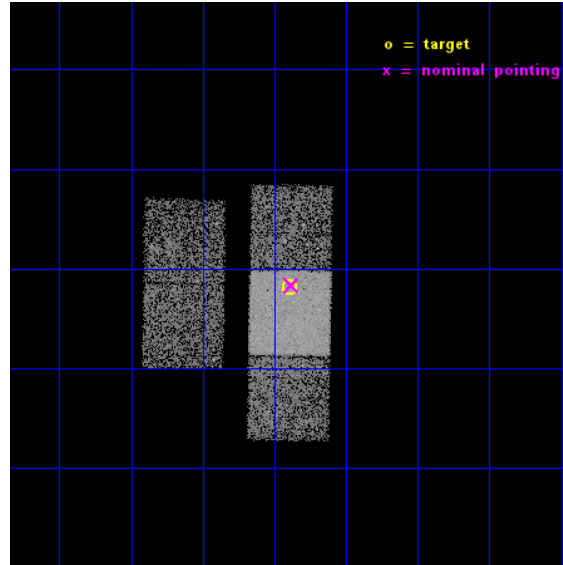
L2 Processing Date : Mar 24 2015

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1 Front

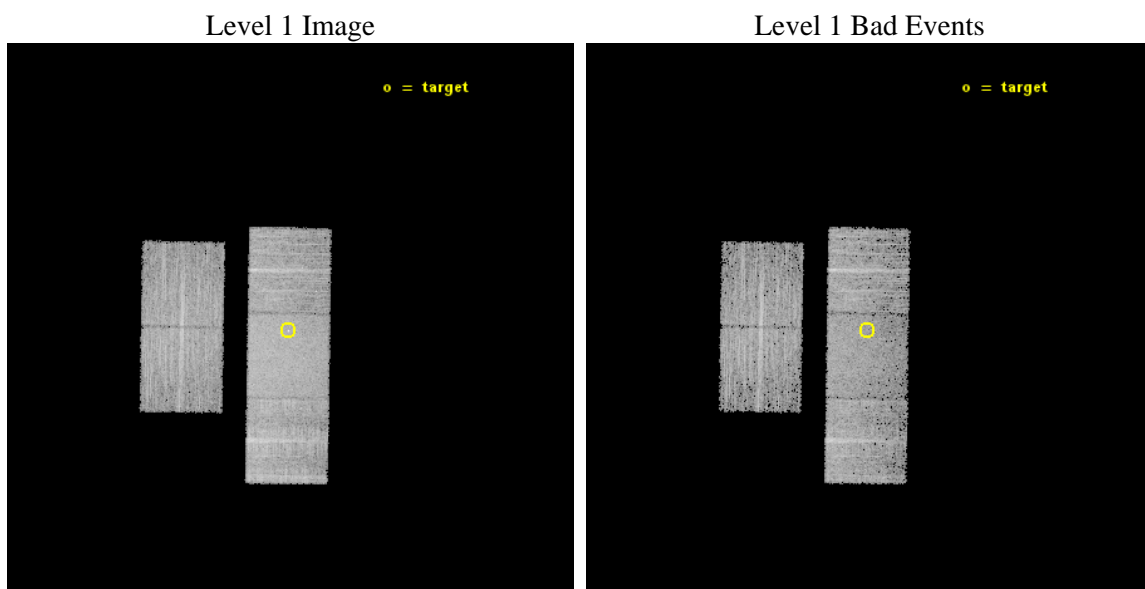
seq_num	703070	Sequence number
obs_id	17066	Observation id
title	AGNs Formed in Protogalaxies Associated with Sub-DLAs	Proposal tit
observer	Dr. George Chartas	Principal investigator
object	PSS 1323-0021	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	200.84875	Observer's specified target RA [deg]
dec_targ	-0.365278	Observer's specified target Dec [deg]
ra_nom	200.84521003647	Nominal RA [deg]
dec_nom	-0.36112962649135	Nominal Dec [deg]
roll_nom	90.91920746423	Nominal Roll [deg]
revision	2	Processing version of data
ontime	11067.000085235	Sum of GTIs [s]
livetime	10922.401581714	Livetime [s]
ontime2	11067.000085235	Sum of GTIs [s]
ontime3	11067.000085235	Sum of GTIs [s]
ontime6	11067.000085235	Sum of GTIs [s]
ontime7	11067.000085235	Sum of GTIs [s]
ontime8	11067.000085235	Sum of GTIs [s]
l2events	49640	Number of level 2 events



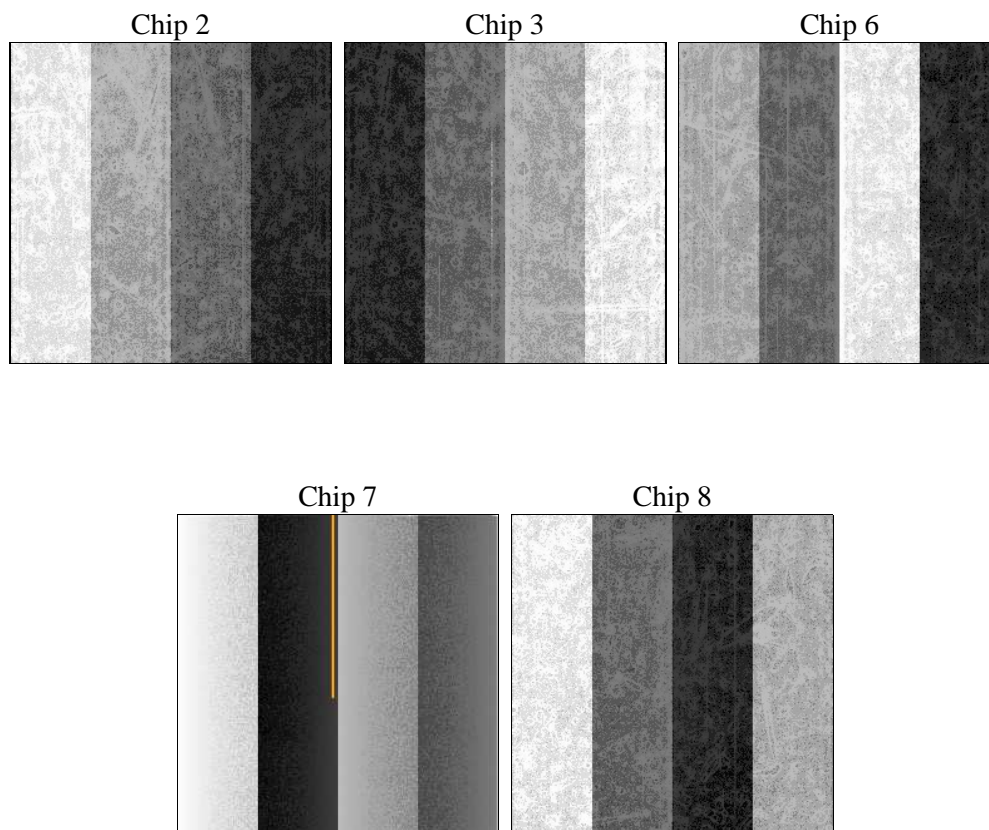
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	11000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	11067.000085235	Sum of GTIs [s]
caldsver	4.6.7	 	ontime2	11067.000085235	Sum of GTIs [s]
date	2015-03-24T20:38:47	Date and time of file creation	ontime3	11067.000085235	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	11067.000085235	Sum of GTIs [s]
			ontime7	11067.000085235	Sum of GTIs [s]
			ontime8	11067.000085235	Sum of GTIs [s]
			l1events	276001	Number of level 1 events

2.1.4 Events

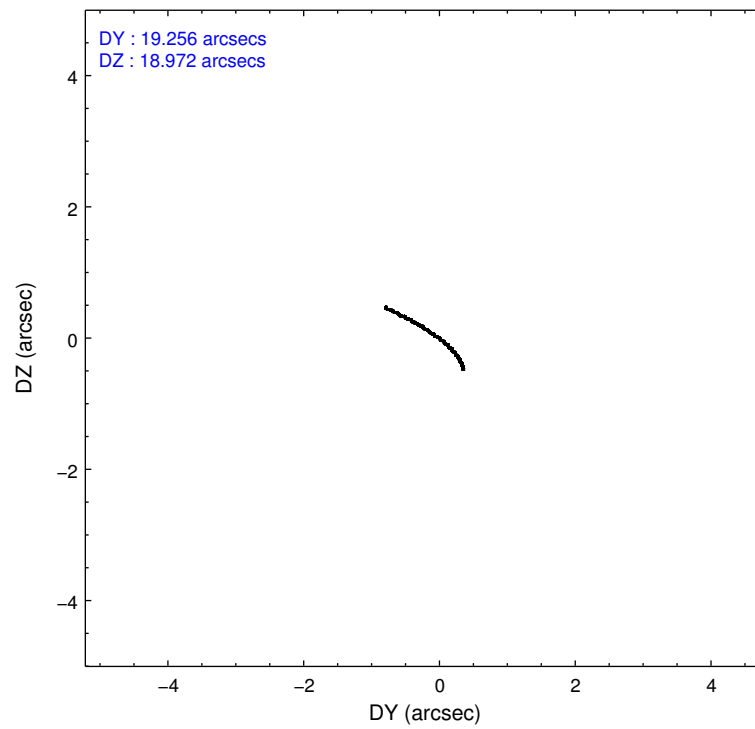
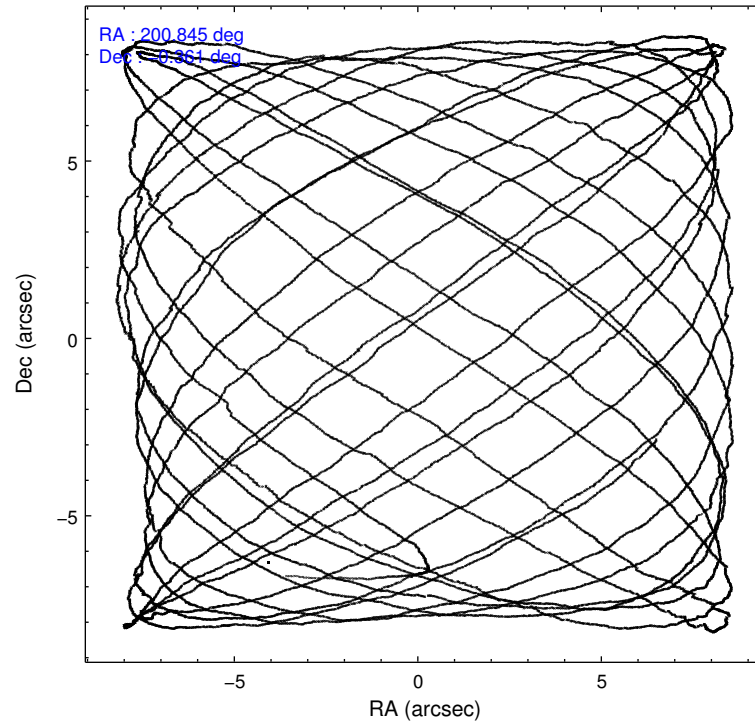
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	46136	48599	50163	67306	63797
rejected events	40611	43189	43998	38039	46335
rejected %	88%	88%	87%	56%	72%

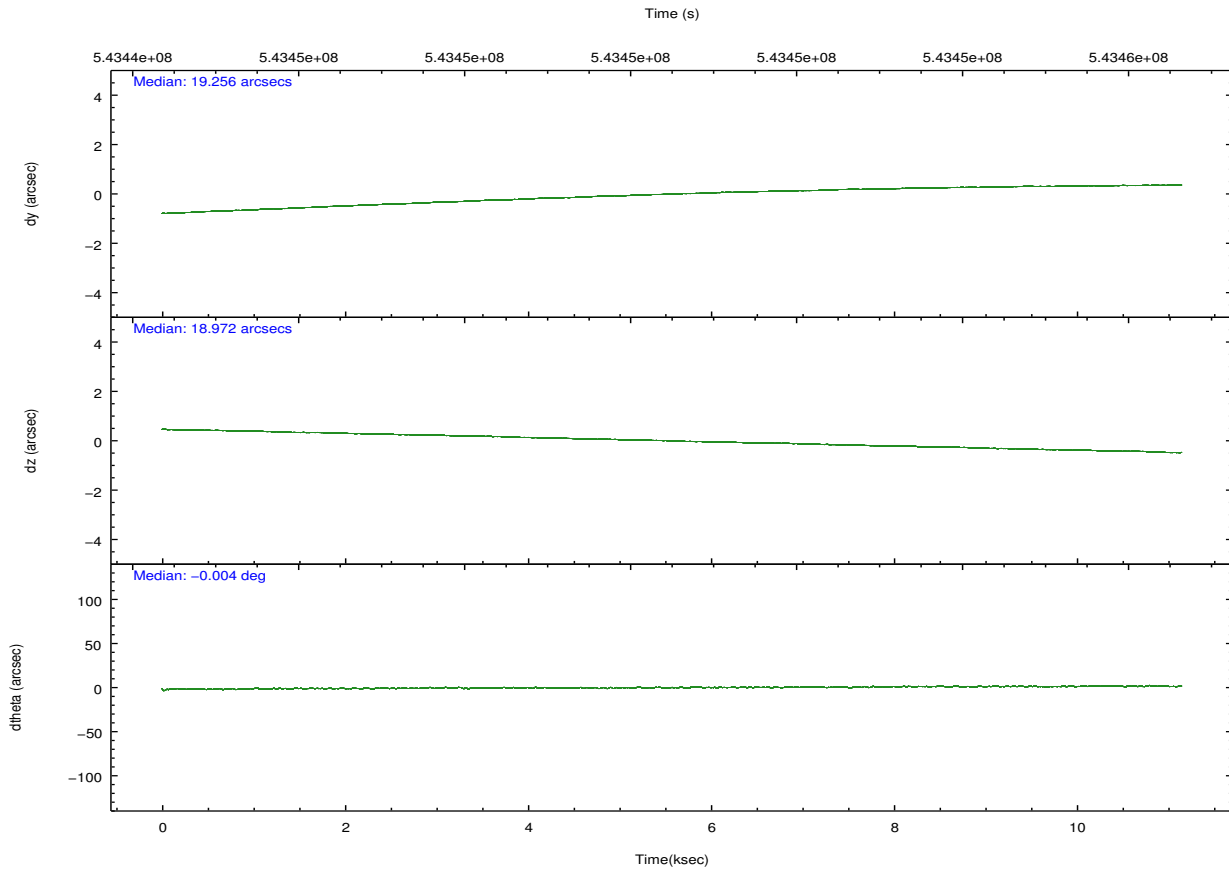
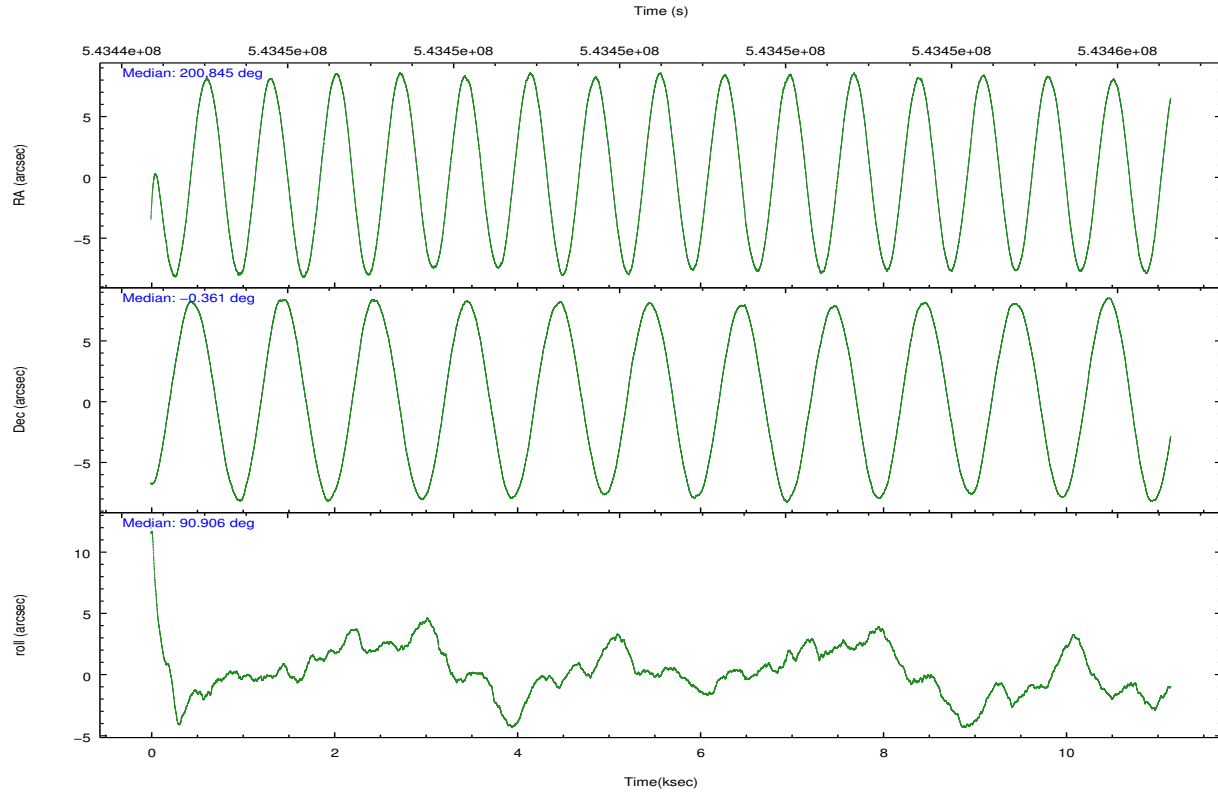
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1972	1784	2172	2593	5139
	4%	3%	4%	3%	8%
grade 1 events	30	21	21	100	46
	0%	0%	0%	0%	0%
grade 2 events	1338	1330	1389	5938	4081
	2%	2%	2%	8%	6%
grade 3 events	577	589	599	2549	1887
	1%	1%	1%	3%	2%
grade 4 events	572	545	600	2491	1774
	1%	1%	1%	3%	2%
grade 5 events	2108	2676	2694	6844	3870
	4%	5%	5%	10%	6%
grade 6 events	1069	1162	1406	15709	4584
	2%	2%	2%	23%	7%
grade 7 events	38470	40492	41282	31082	42416
	83%	83%	82%	46%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	200.859675	200.8452100364696	CCD I2 on	O1	Y
[deg] Pointing Dec	-0.384465	-0.3611296264913511	CCD I3 on	O2	Y
[deg] Pointing Roll	90.762662	90.91920746422994	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O3	Y
[s] Observation start time (MET)	543445067.184000	543443955.10483	CCD S5 on	N	N
Observation start date	2015-03-22T20:56:40	2015-03-22T20:39:15	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	543456067.184000	543456720.96804	On-chip summing requested	N	N
Observation end date	2015-03-23T00:00:00	2015-03-23T00:12:00	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



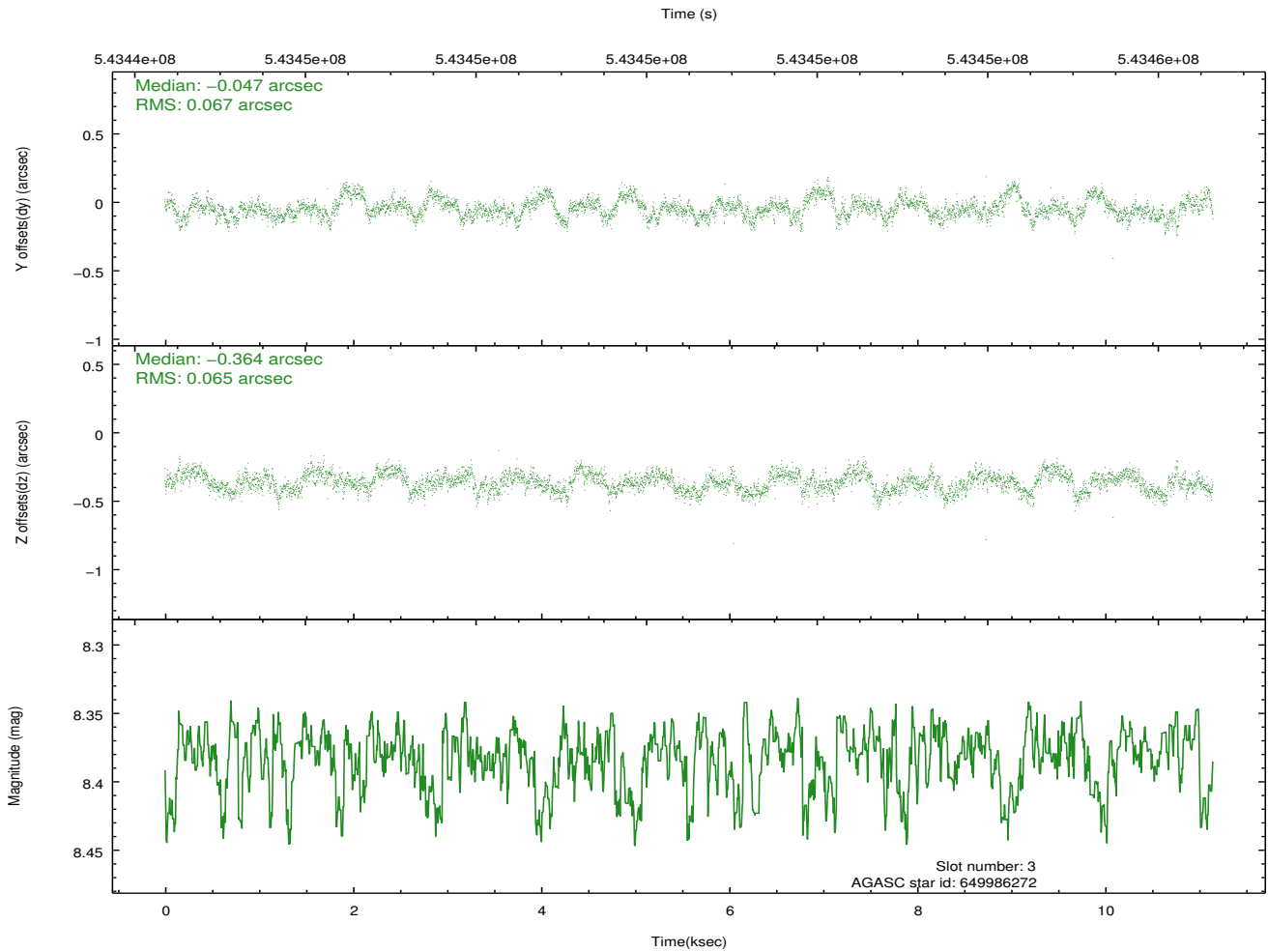
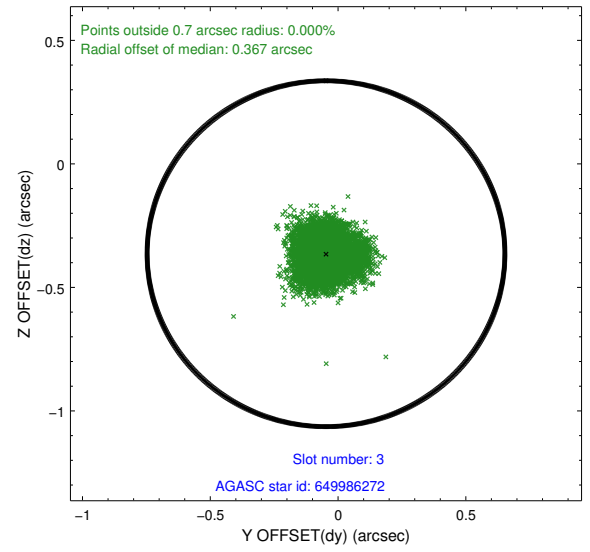
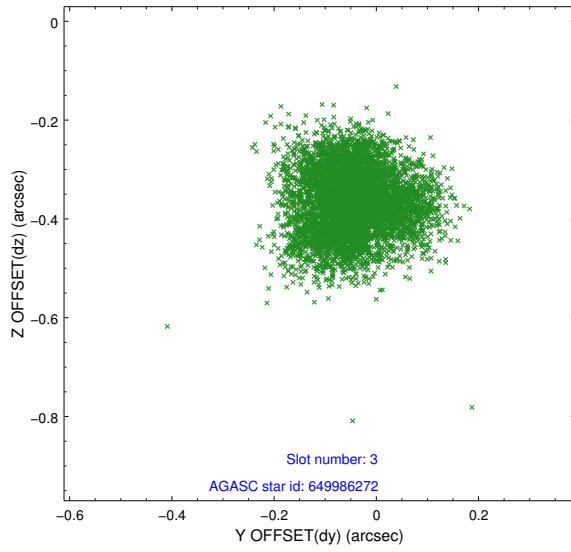


Slot Statistics

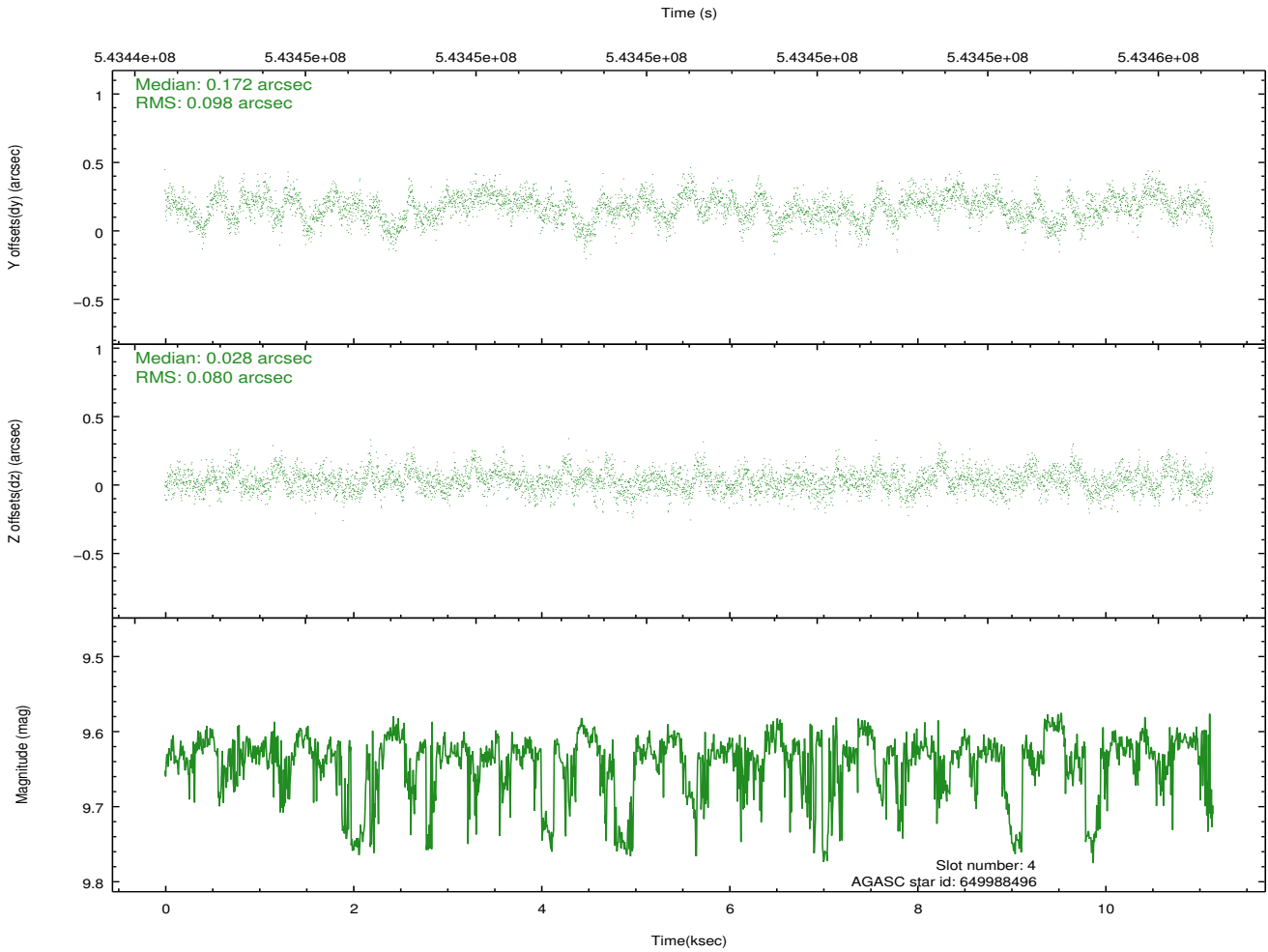
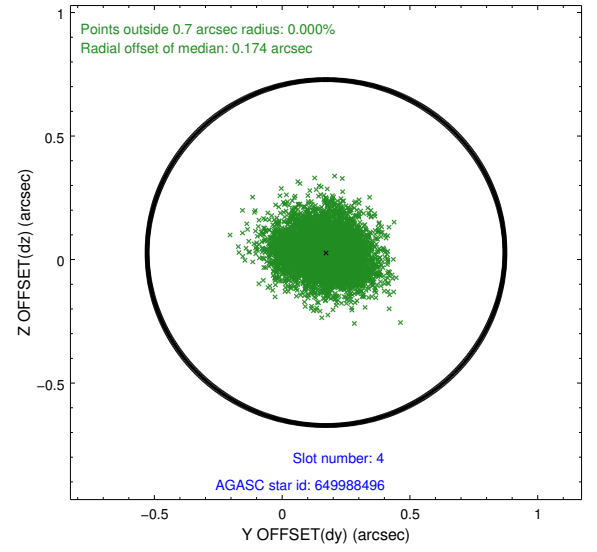
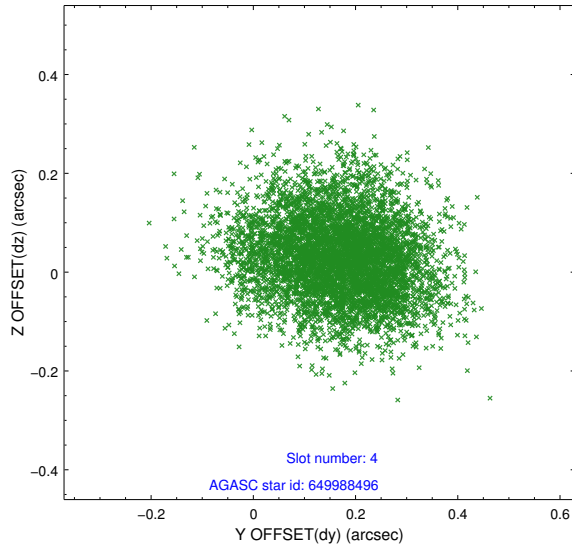
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	2719	-0.135	-0.082	0.015	0.026	0.000000	0.000000	-772.40	-1740.48
1	FID		ACIS-S-4	7.21	2719	0.356	0.087	0.009	0.019	0.000000	0.000000	2141.16	167.67
2	FID		ACIS-S-5	7.23	2719	-0.254	0.004	0.009	0.015	0.000000	0.000000	-1824.76	161.82
3	GUIDE	used	649986272	8.38	5439	-0.047	-0.364	0.101	0.156	200.339626	-0.585221	-698.14	1881.28
4	GUIDE	used	649988496	9.63	5437	0.172	0.028	0.134	0.218	200.473036	-0.873550	-1742.17	1415.93
5	GUIDE	used	649988608	8.14	5438	-0.039	-0.060	0.085	0.137	200.620062	-0.578825	-688.51	872.42
6	GUIDE	used	649991752	8.28	5436	-0.104	0.053	0.091	0.146	201.087534	-0.315852	235.97	-822.50
7	GUIDE	used	649993016	8.84	5436	0.019	0.343	0.098	0.162	201.437132	-0.453924	-276.65	-2074.70

2.4 Star Slots

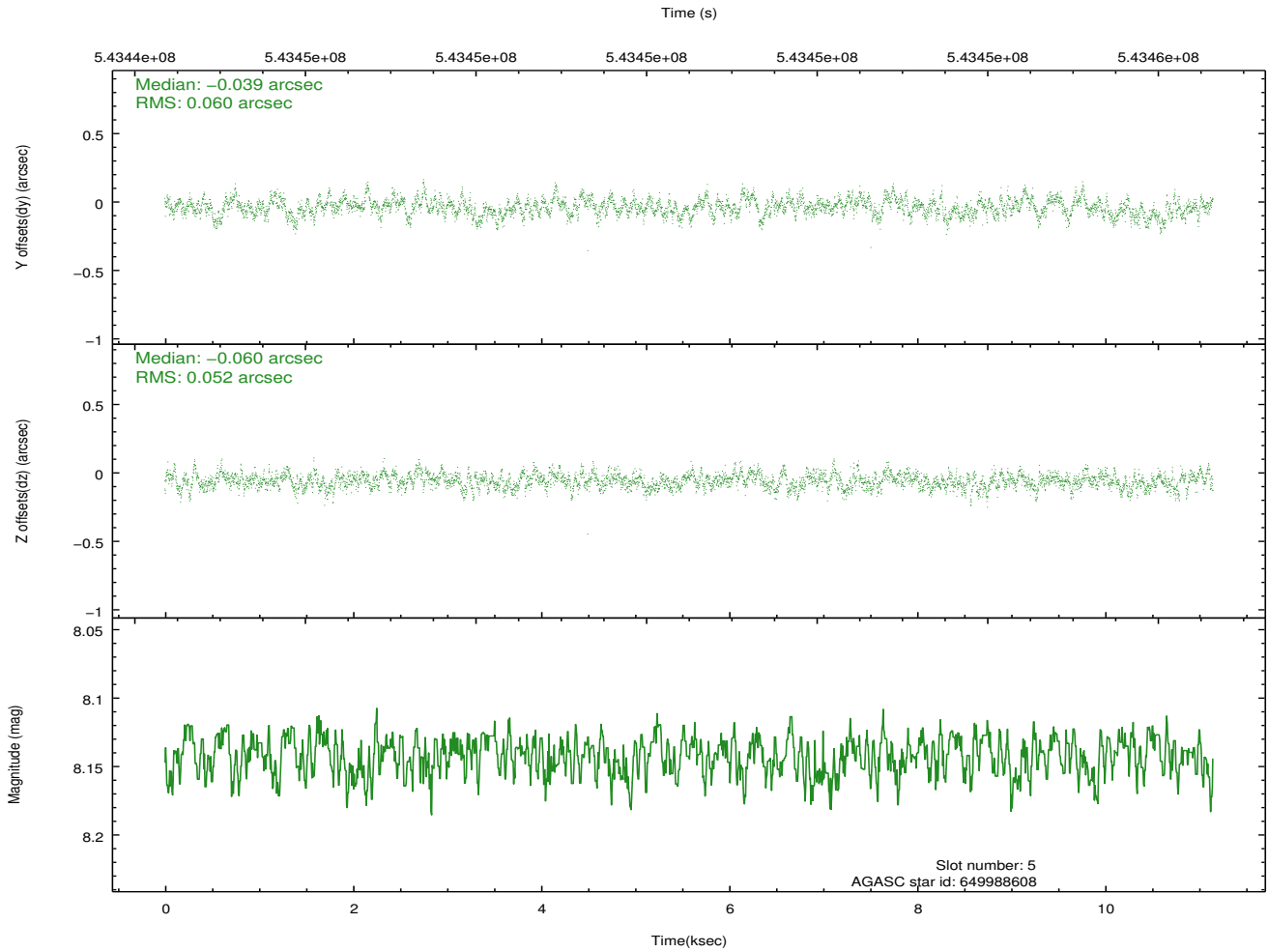
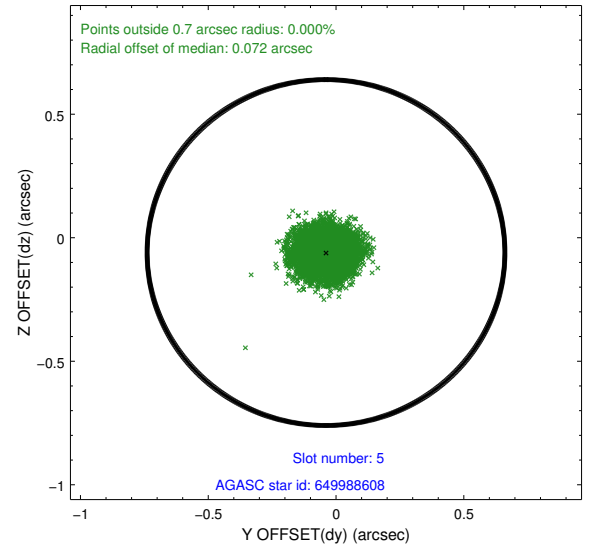
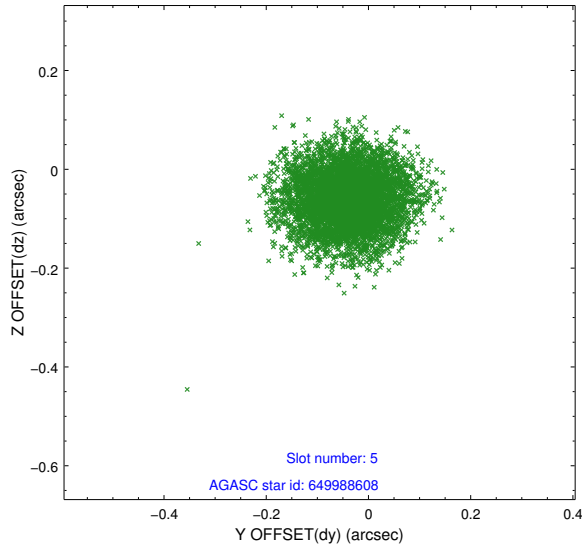
2.4.1 Slot 3



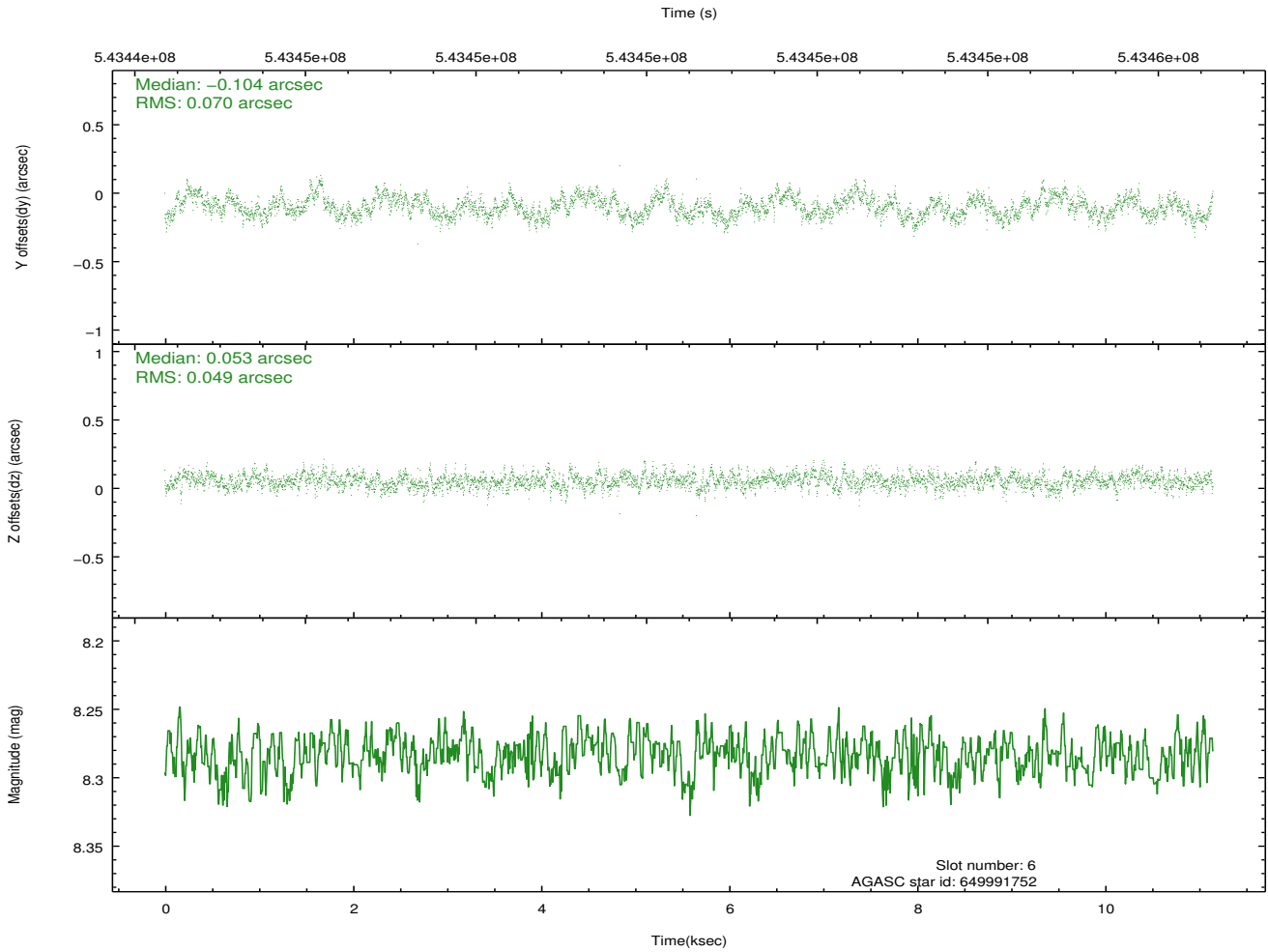
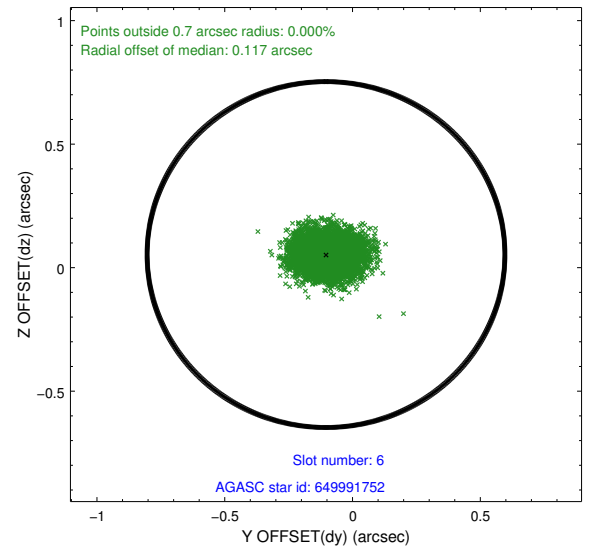
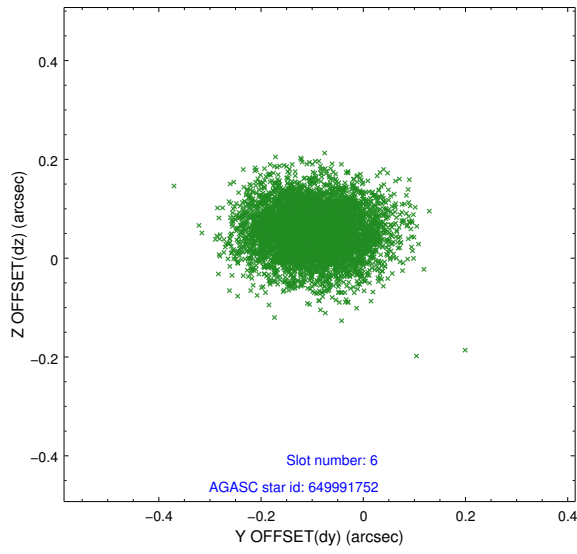
2.4.2 Slot 4



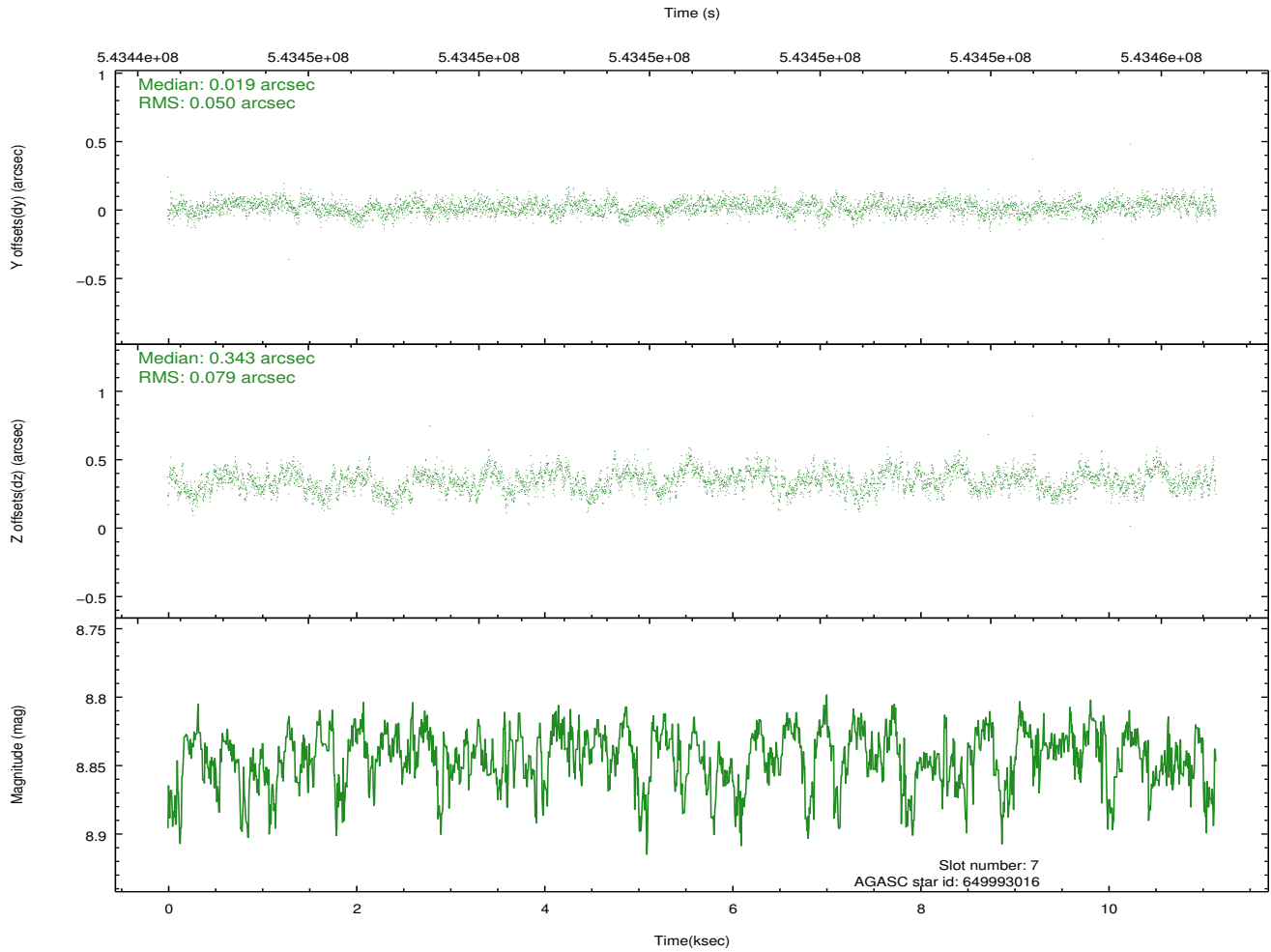
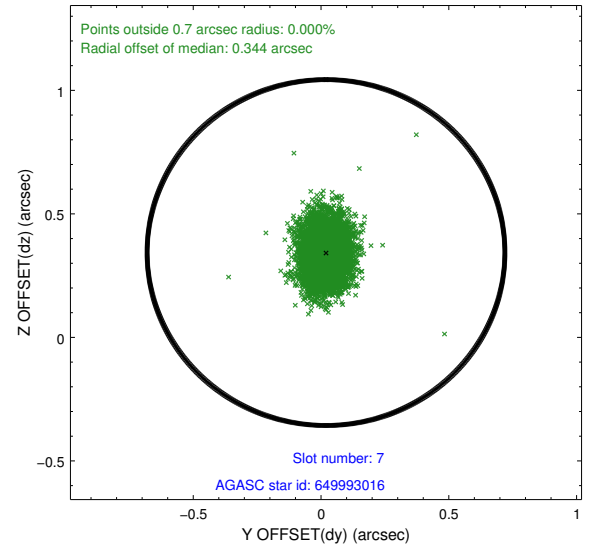
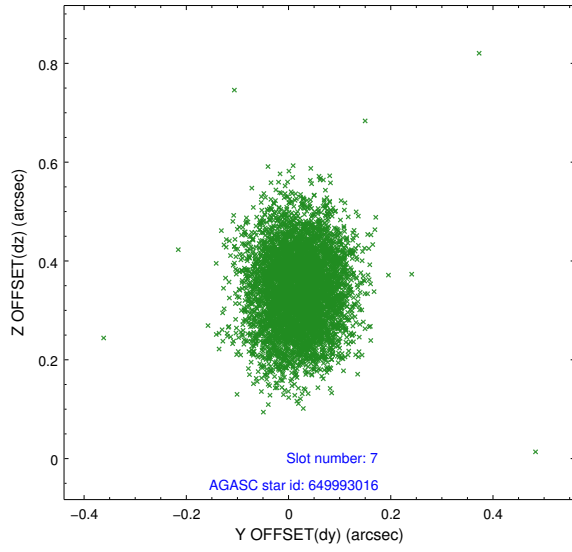
2.4.3 Slot 5



2.4.4 Slot 6

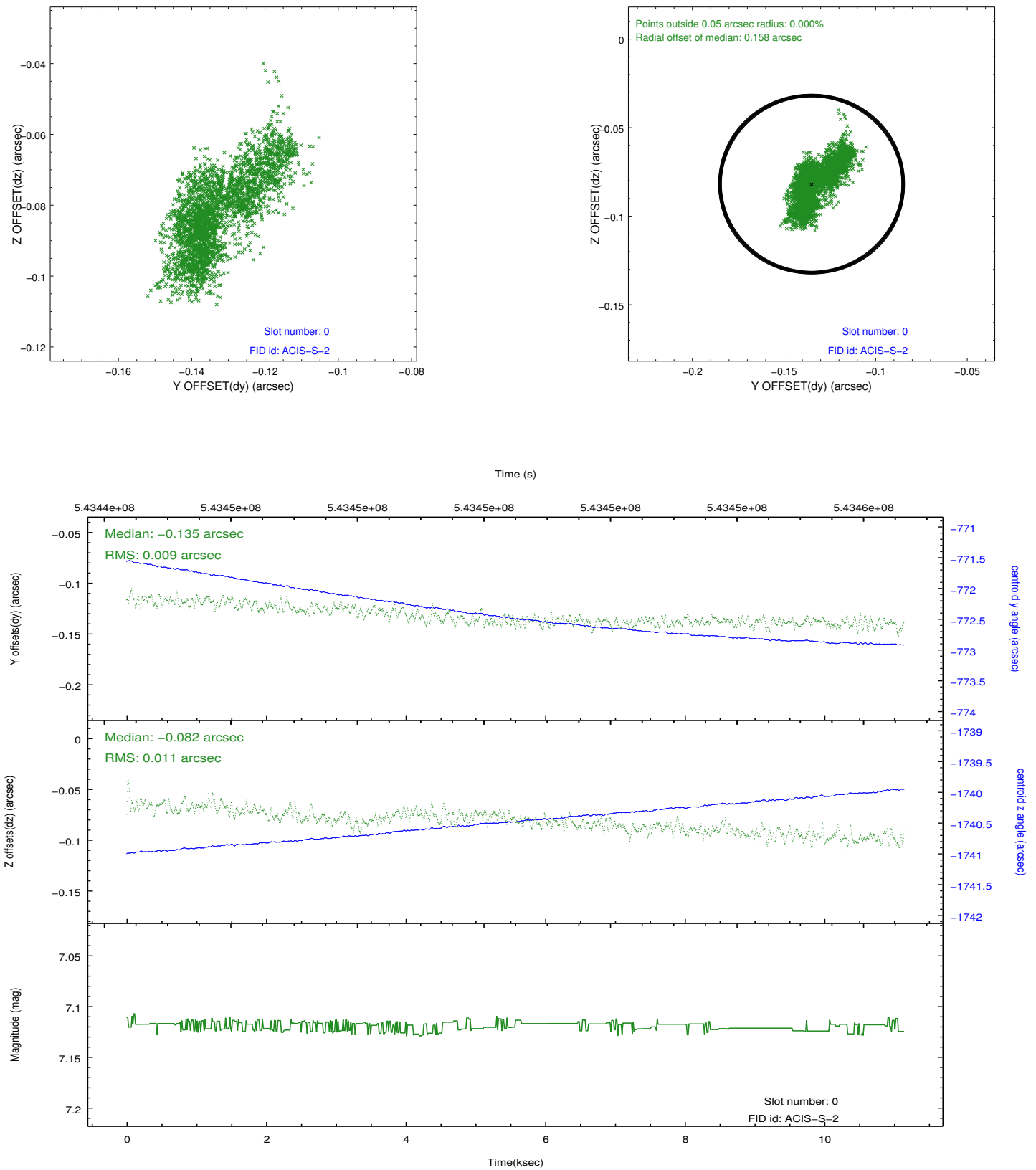


2.4.5 Slot 7

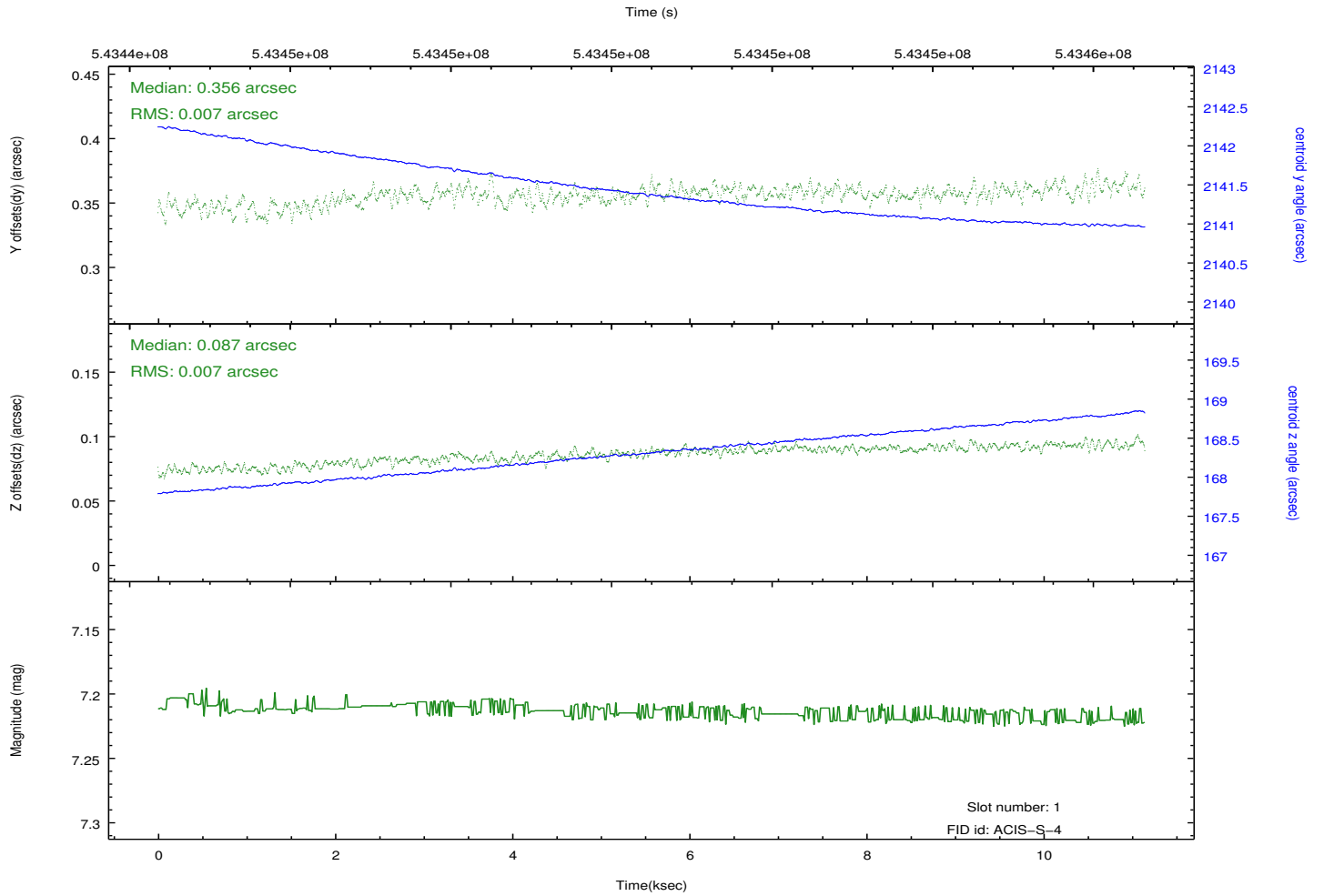
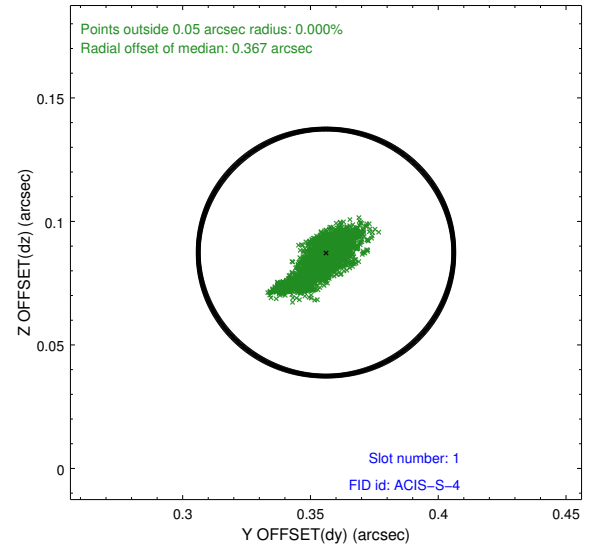
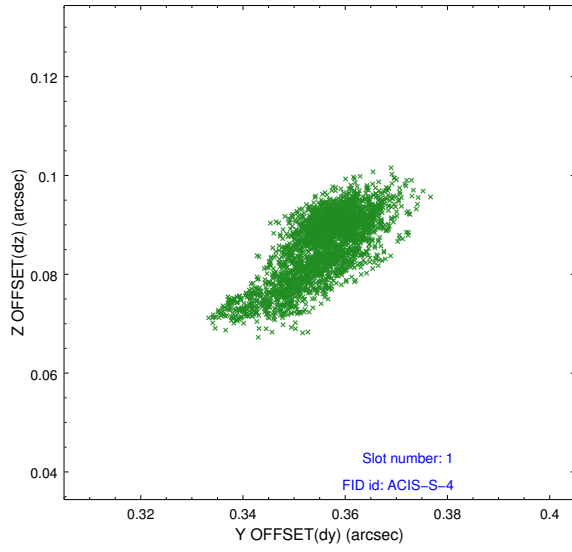


2.5 FID Slots

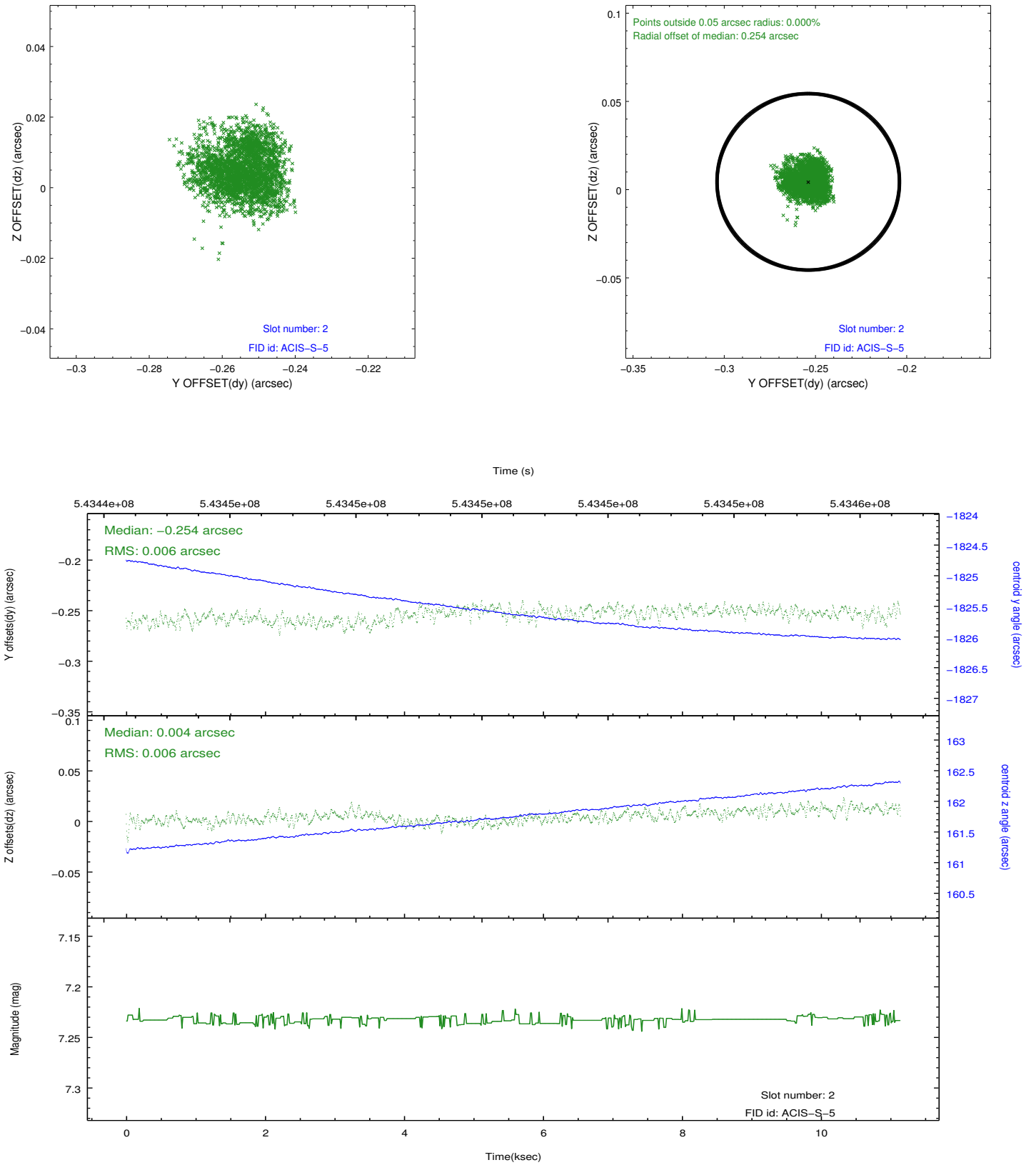
2.5.1 Slot 0



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)	2015.03.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.067000085235

A.2 Comments

A spatial region of the original bias map for CCD = 3 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 = 3 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: (201.09323, -0.49807), (201.09650, -0.49802), (201.09627, -0.48385), (201.09300, -0.48389).