

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12826 - L2 Version 3
Chandra X-Ray Center

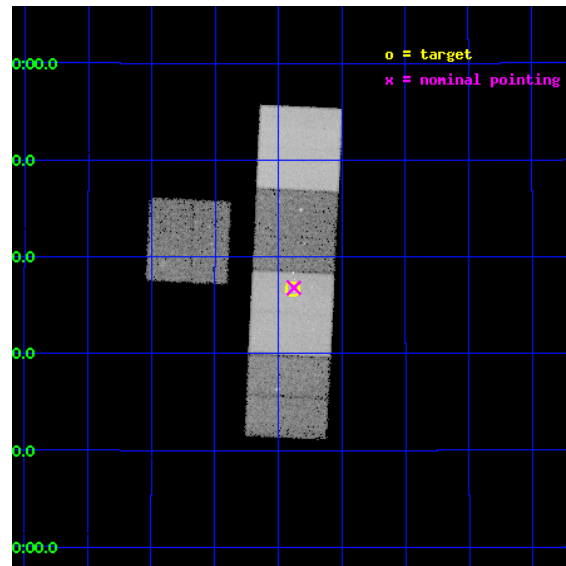
L2 Processing Date : Feb 29 2012

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1 Front

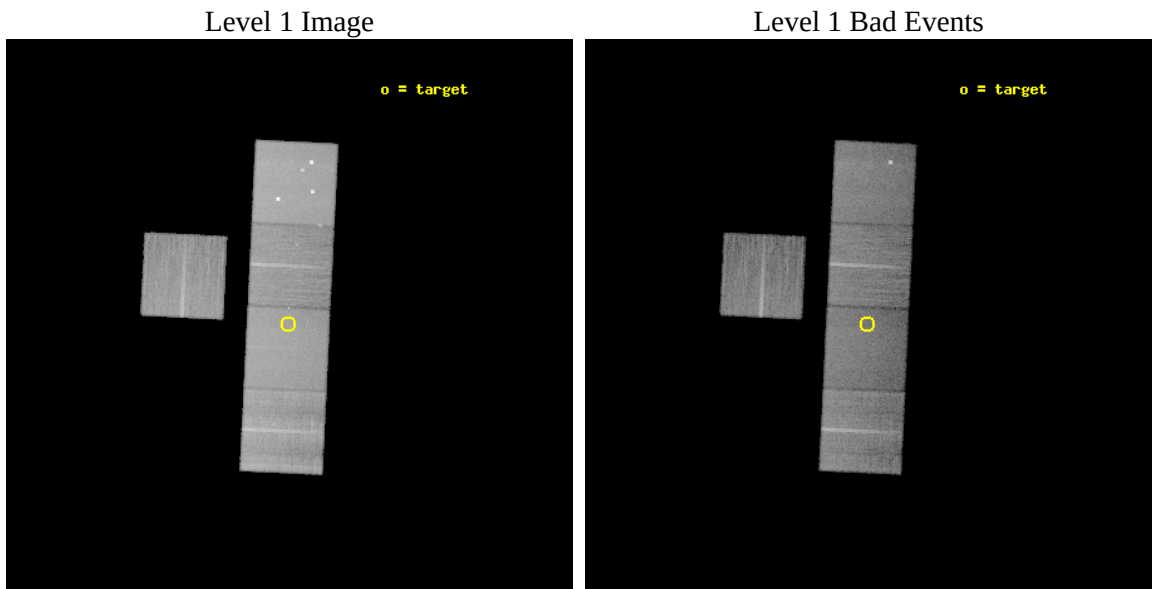
seq_num	702461	Sequence number
obs_id	12826	Observation id
title	X-ray follow-up of Seyferts with candidate dual supermassive black holes	Proposal title
observer	Dr. Brian Gerke	Principal investigator
object	SDSS J075223.35+273643.1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	118.0975	Observer's specified target RA [deg]
dec_targ	27.611972	Observer's specified target Dec [deg]
ra_nom	118.0945266735	Nominal RA [deg]
dec_nom	27.613480427408	Nominal Dec [deg]
roll_nom	92.744421322803	Nominal Roll [deg]
revision	3	Processing version of data
ontime	30042.100231051	Sum of GTIs [s]
livetime	29649.57807486	Livetime [s]
ontime2	30042.100231051	Sum of GTIs [s]
ontime5	30042.100231051	Sum of GTIs [s]
ontime6	30042.100231051	Sum of GTIs [s]
ontime7	30042.100231051	Sum of GTIs [s]
ontime8	30042.100231051	Sum of GTIs [s]
l2events	300250	Number of level 2 events



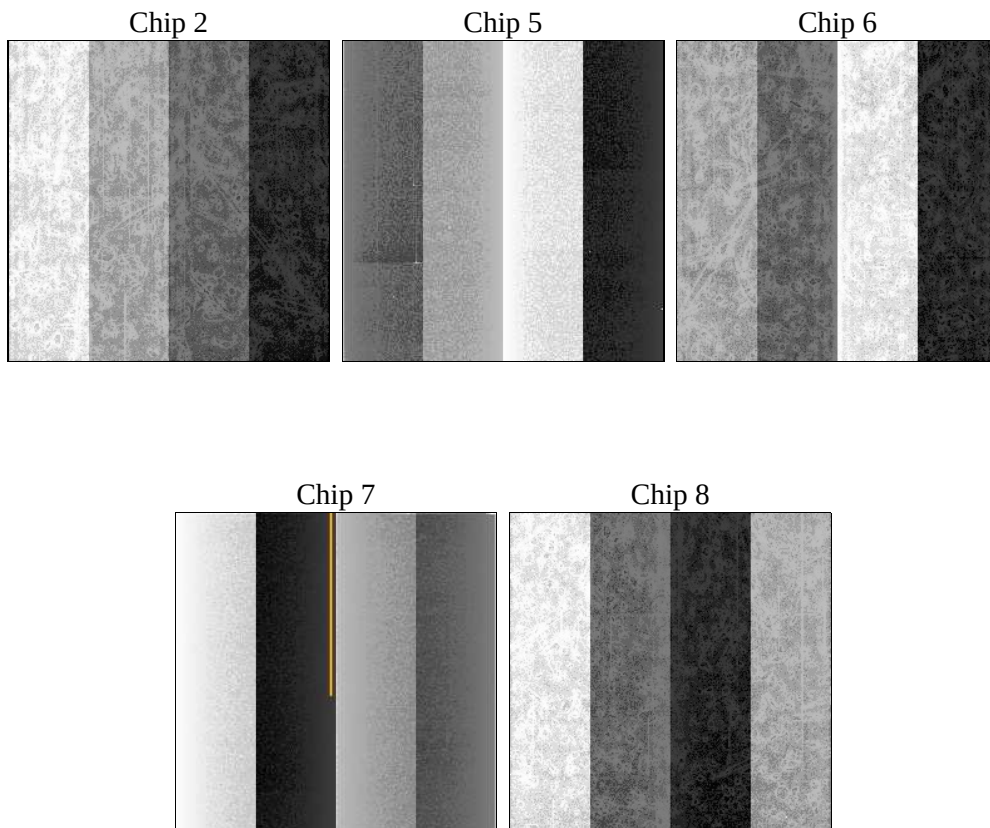
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	30042.100231051	Sum of GTIs [s]
caldsver	4.4.8	 	ontime2	30042.100231051	Sum of GTIs [s]
date	2012-02-29T14:59:16	Date and time of file creation	ontime5	30042.100231051	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	30042.100231051	Sum of GTIs [s]
			ontime7	30042.100231051	Sum of GTIs [s]
			ontime8	30042.100231051	Sum of GTIs [s]
			l1events	1186257	Number of level 1 events

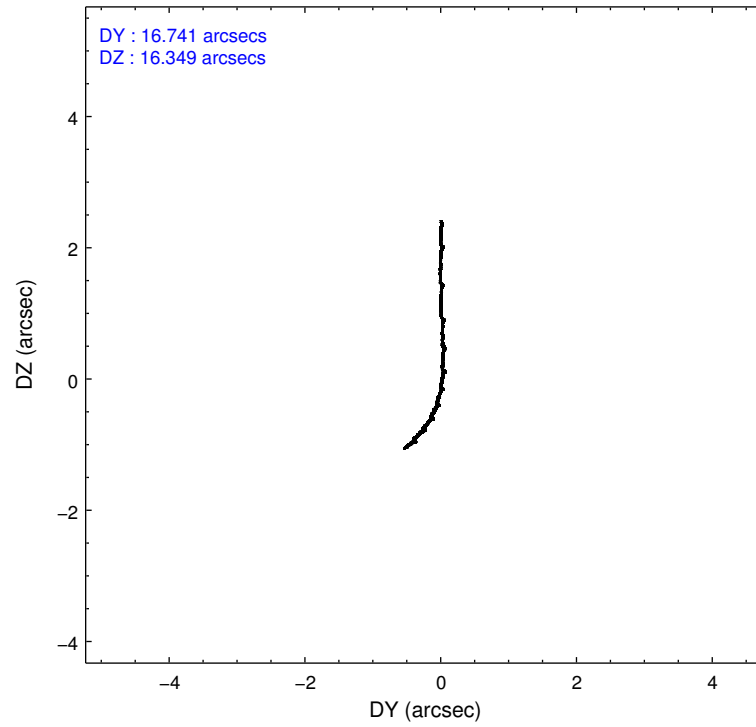
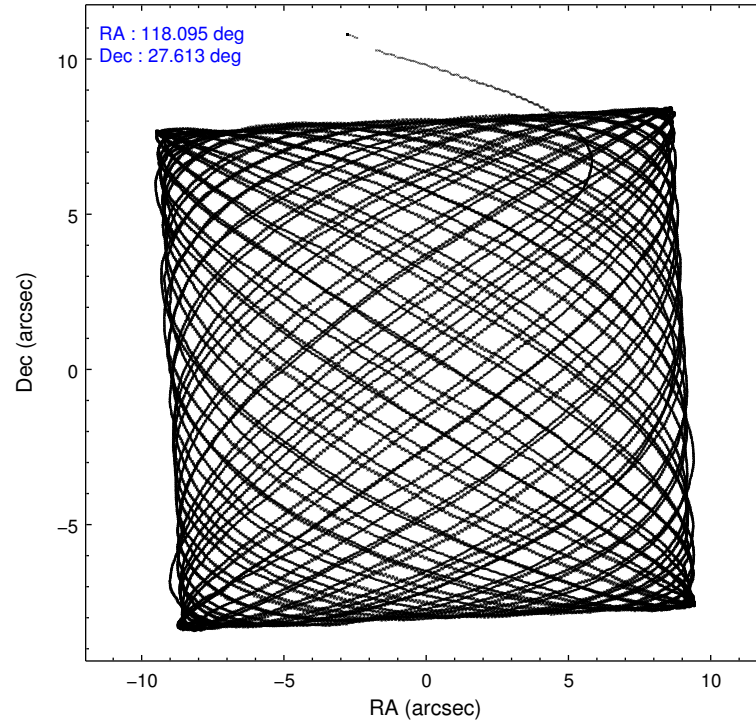
2.1.4 Events

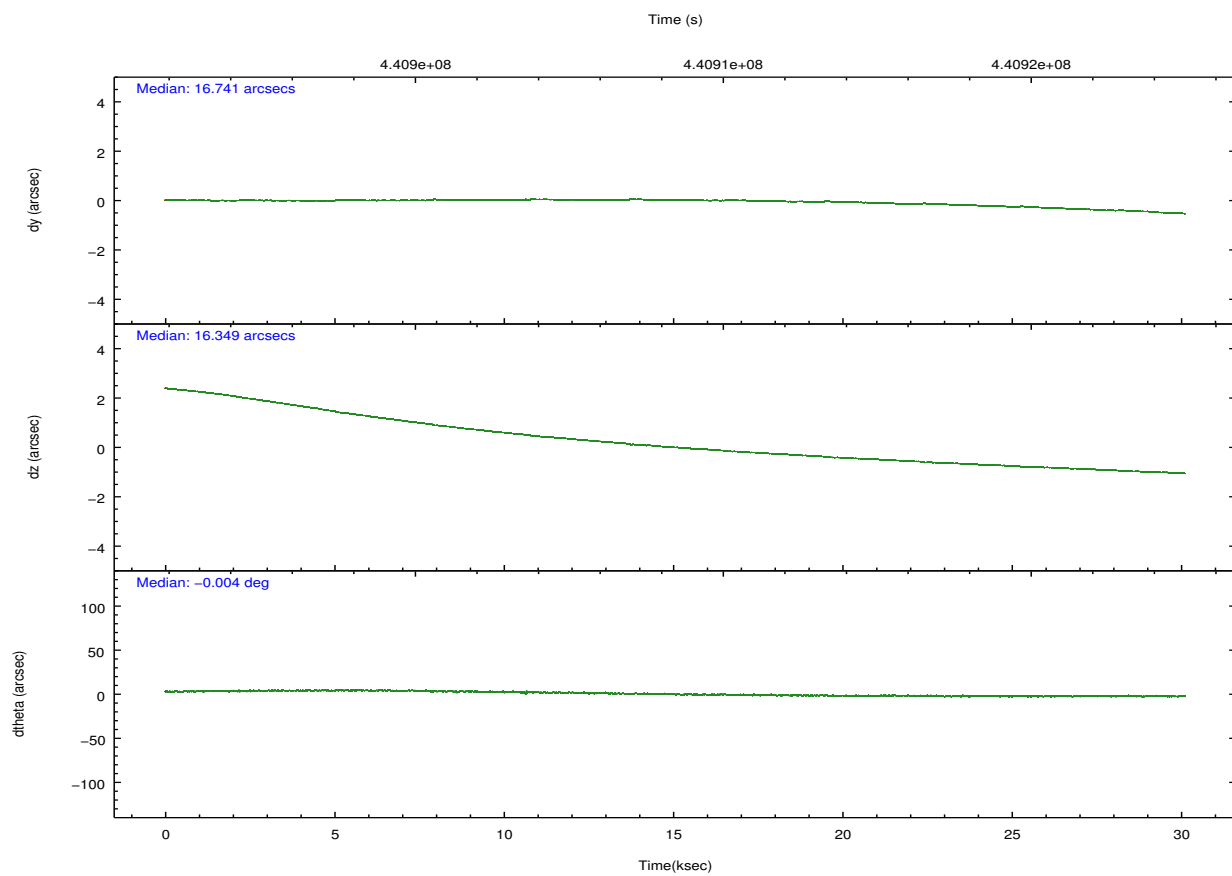
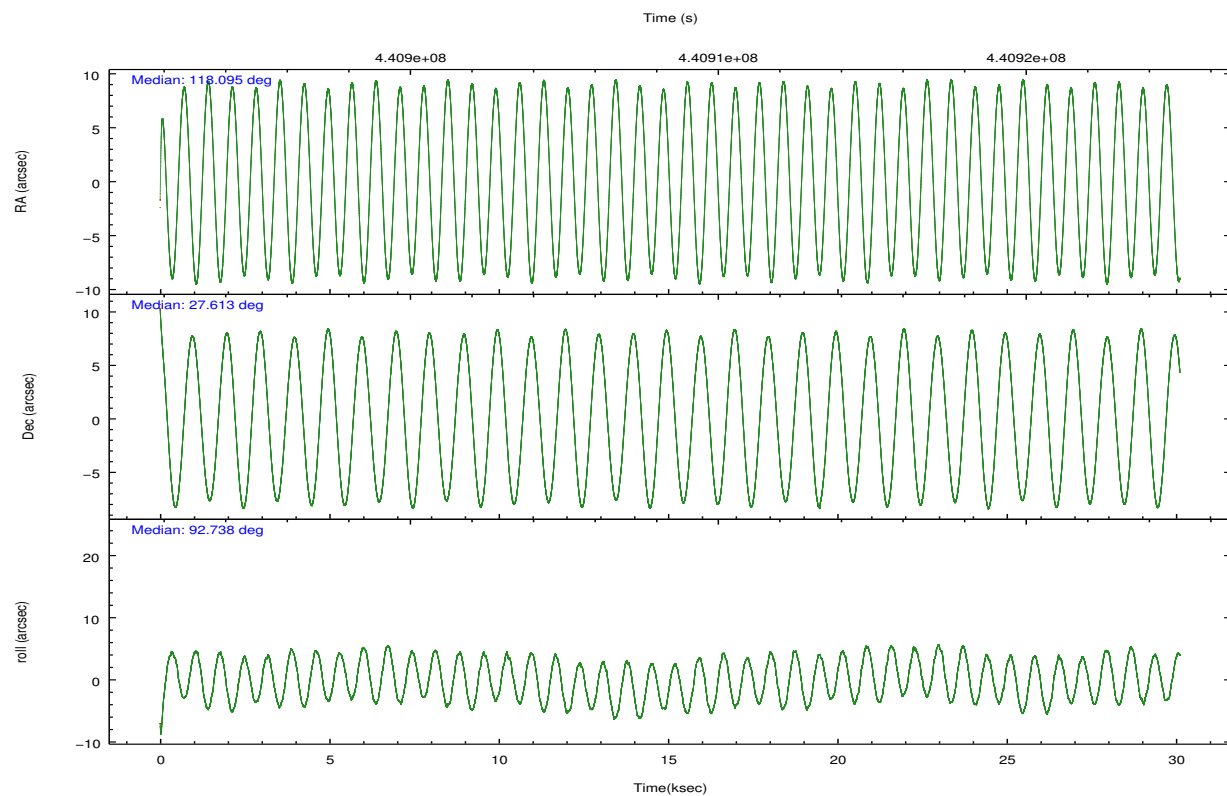
	ccd 2	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	184926	315916	188759	245244	251412	grade 0 events	7355	24122	7816	9771	18948
rejected events	164256	157484	166603	136511	184800		3%	7%	4%	3%	7%
rejected %	88%	49%	88%	55%	73%	grade 1 events	96	540	99	276	191
							0%	0%	0%	0%	0%
						grade 2 events	4972	46116	5005	22112	15941
							2%	14%	2%	9%	6%
						grade 3 events	2149	5323	2257	9622	6882
							1%	1%	1%	3%	2%
						grade 4 events	2149	4935	2288	9504	6629
							1%	1%	1%	3%	2%
						grade 5 events	7499	23347	9192	25622	13583
							4%	7%	4%	10%	5%
						grade 6 events	4048	77953	4792	57734	18213
							2%	24%	2%	23%	7%
						grade 7 events	156658	133580	157310	110603	171025
							84%	42%	83%	45%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-25678	ACIS-25678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	118.111575	118.0945266735029	CCD I2 on	O2	Y
[deg] Pointing Dec	27.590683	27.6134804274078	CCD I3 on	O1	N
[deg] Pointing Roll	92.579894	92.74442132280299	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O4	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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)	440893475.184000	440892237.76231	CCD S5 on	N	N
Observation start date	2011-12-21T22:23:29	2011-12-21T22:03:57	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	440923475.184000	440924174.2015	On-chip summing requested	N	N
Observation end date	2011-12-22T06:43:29	2011-12-22T06:56:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



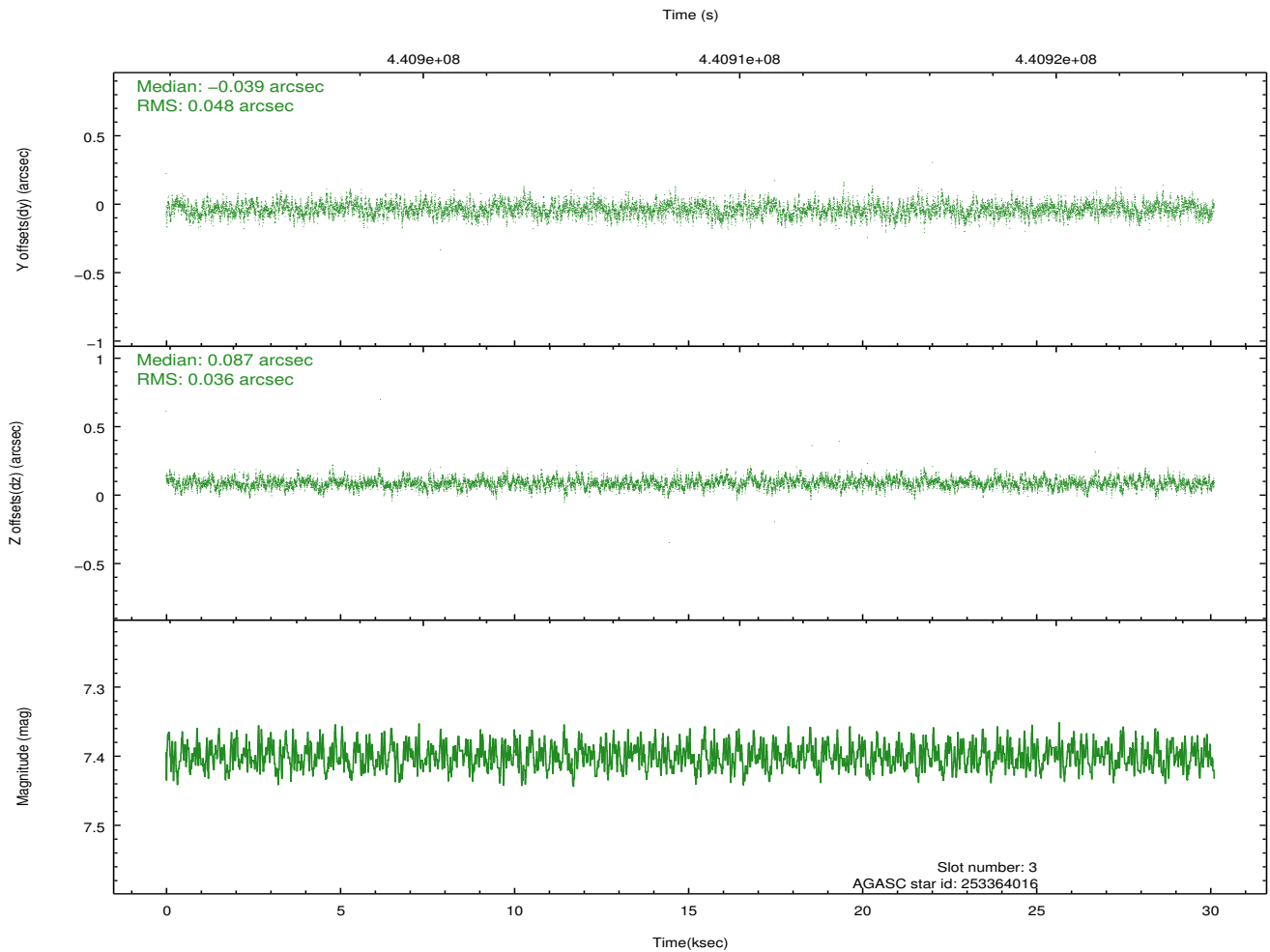
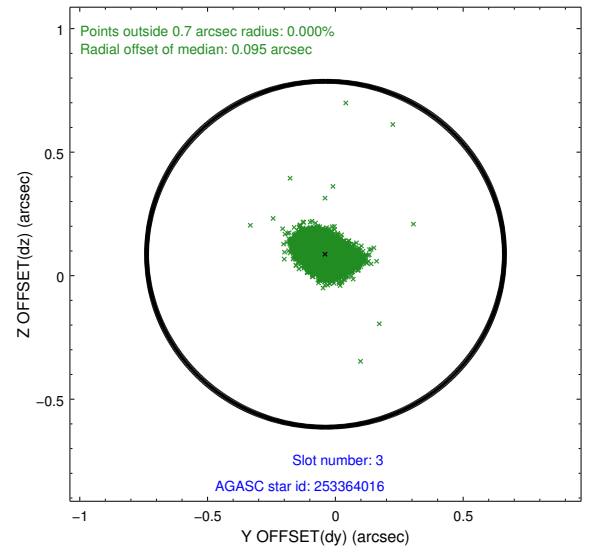
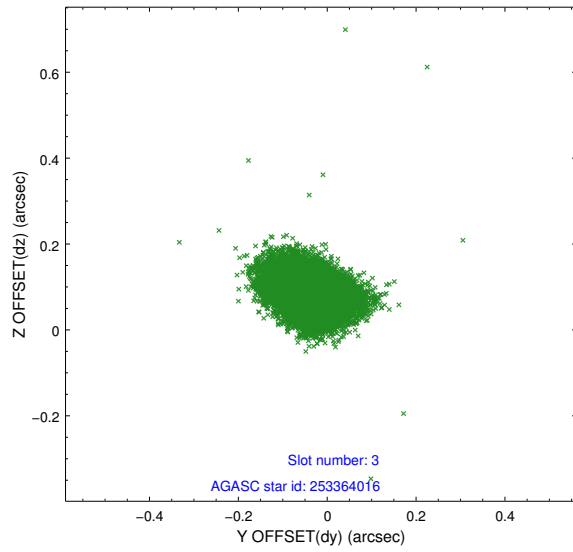


Slot Statistics

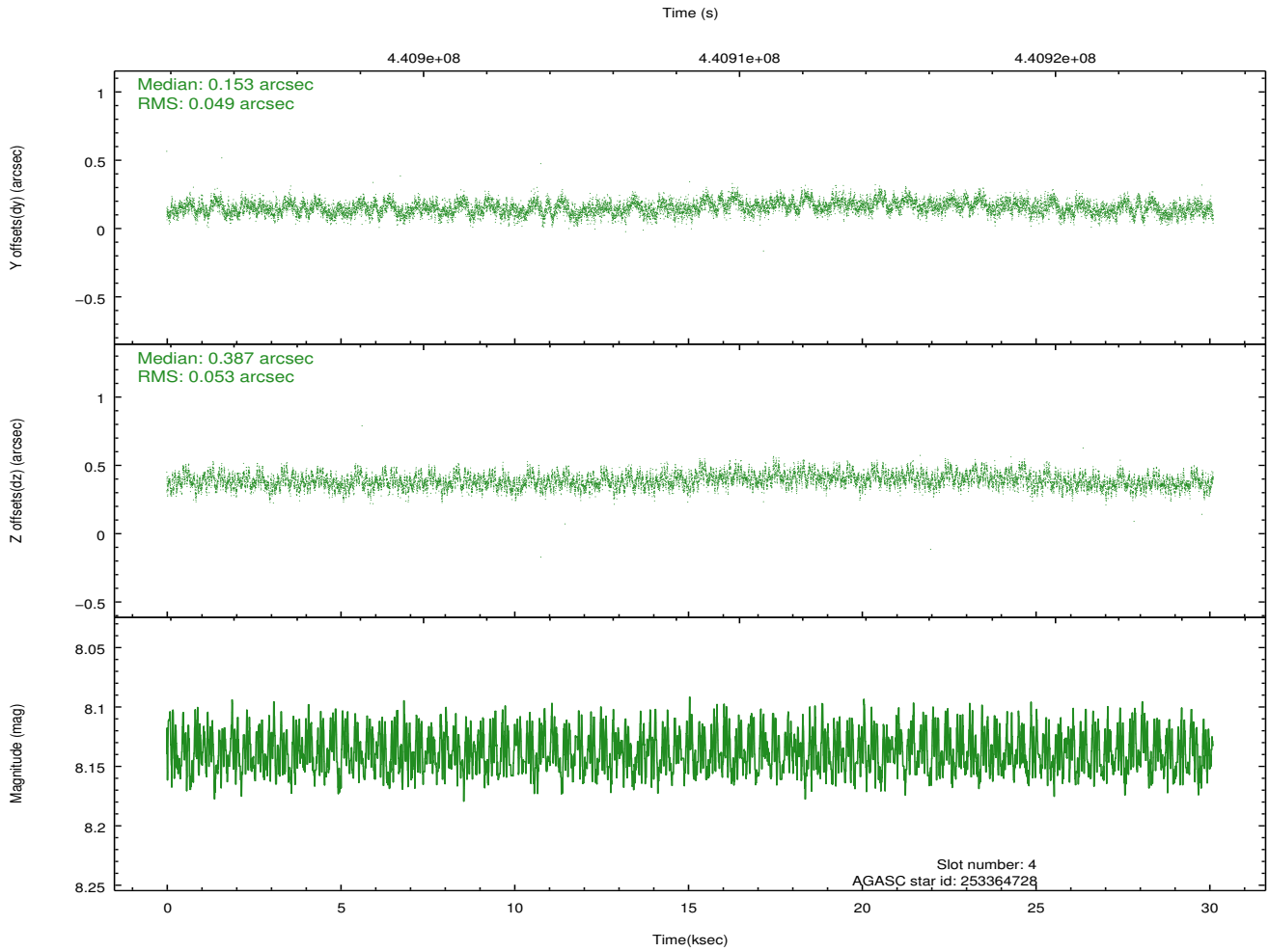
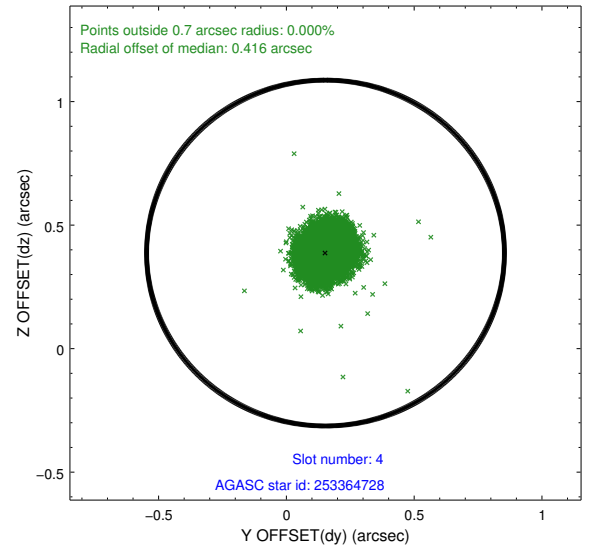
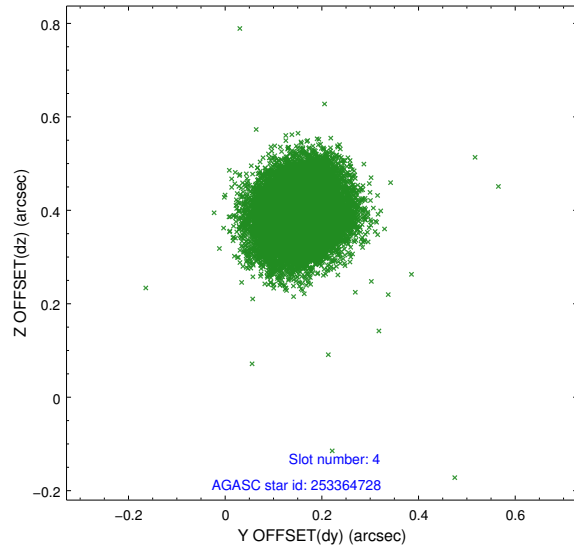
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.94	7345	-0.099	-0.015	0.029	0.045	0.000000	0.000000	-769.79	-1737.99
1	FID	ACIS-S-4	7.03	7344	0.212	0.053	0.009	0.018	0.000000	0.000000	2143.78	170.47
2	FID	ACIS-S-5	7.06	7345	-0.143	-0.033	0.029	0.046	0.000000	0.000000	-1822.57	164.18
3	GUIDE	253364016	7.40	14687	-0.039	0.087	0.062	0.103	118.337771	28.051989	1627.50	-792.49
4	GUIDE	253364728	8.14	14686	0.153	0.387	0.077	0.120	118.785876	27.079764	-1928.35	-2076.63
5	GUIDE	253368152	6.99	14689	0.014	-0.301	0.083	0.128	117.479421	27.363180	-722.45	2055.28
6	GUIDE	253370536	8.48	14683	0.129	0.037	0.075	0.121	118.317894	27.914783	1136.44	-707.63
7	GUIDE	253900496	7.18	14687	-0.261	-0.212	0.081	0.129	117.487585	28.198754	2280.77	1879.04

2.4 Star Slots

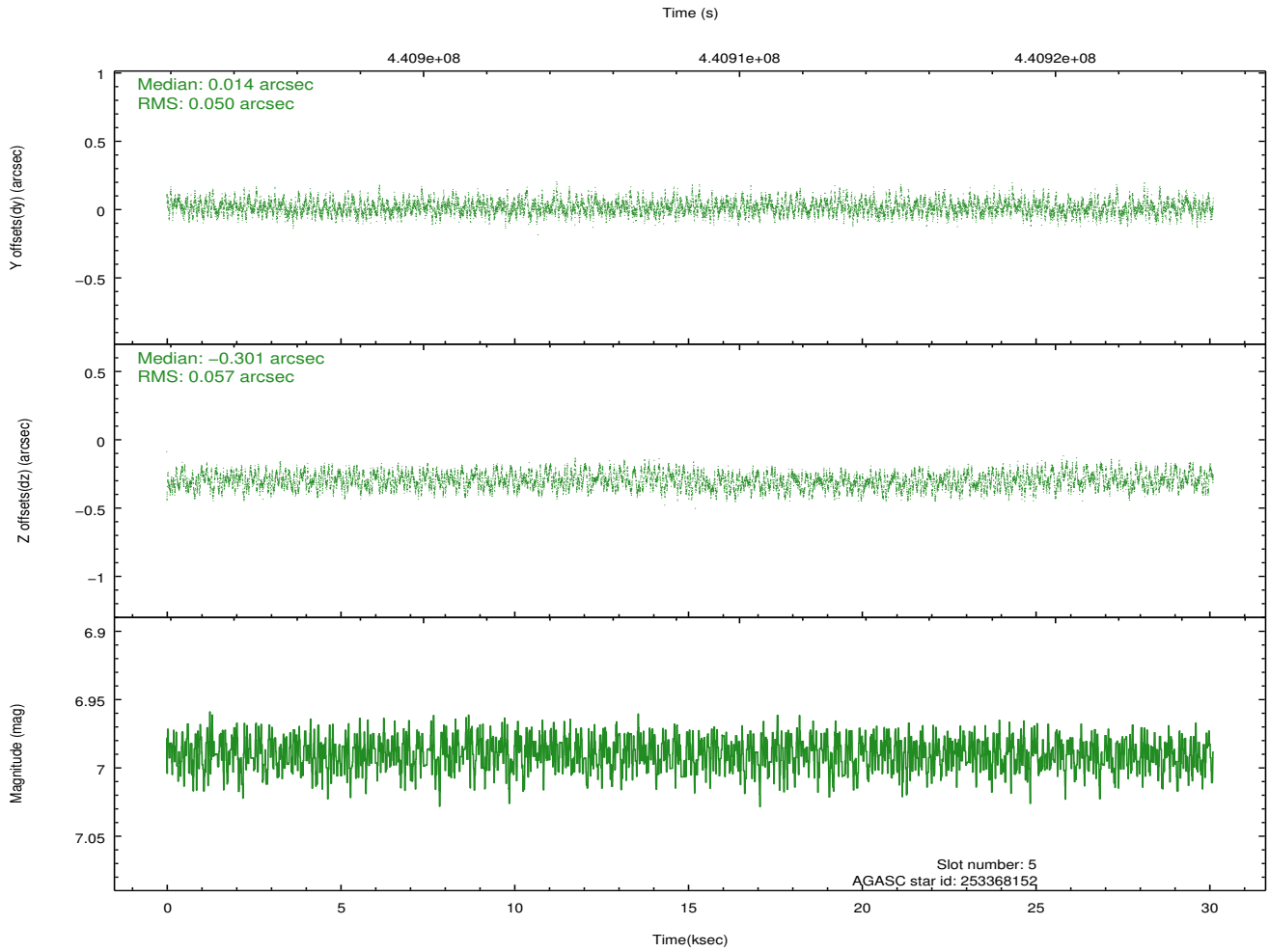
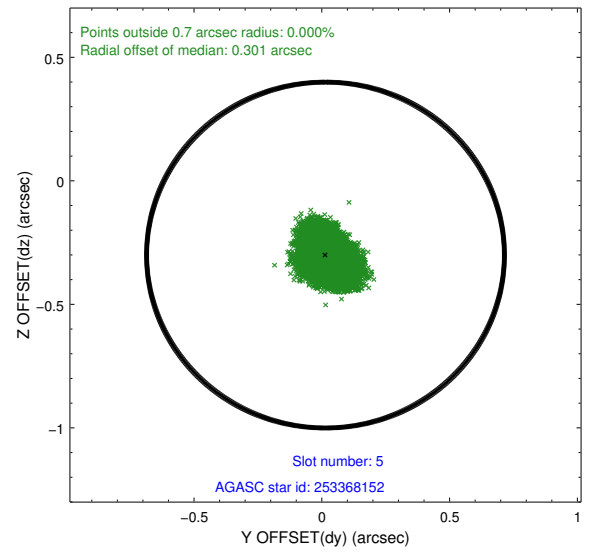
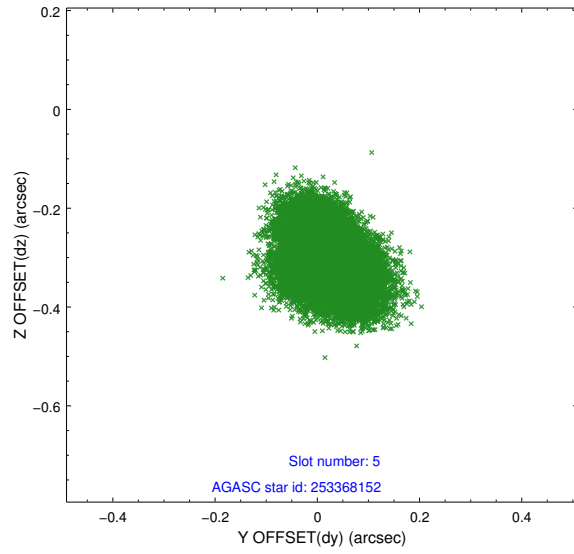
2.4.1 Slot 3



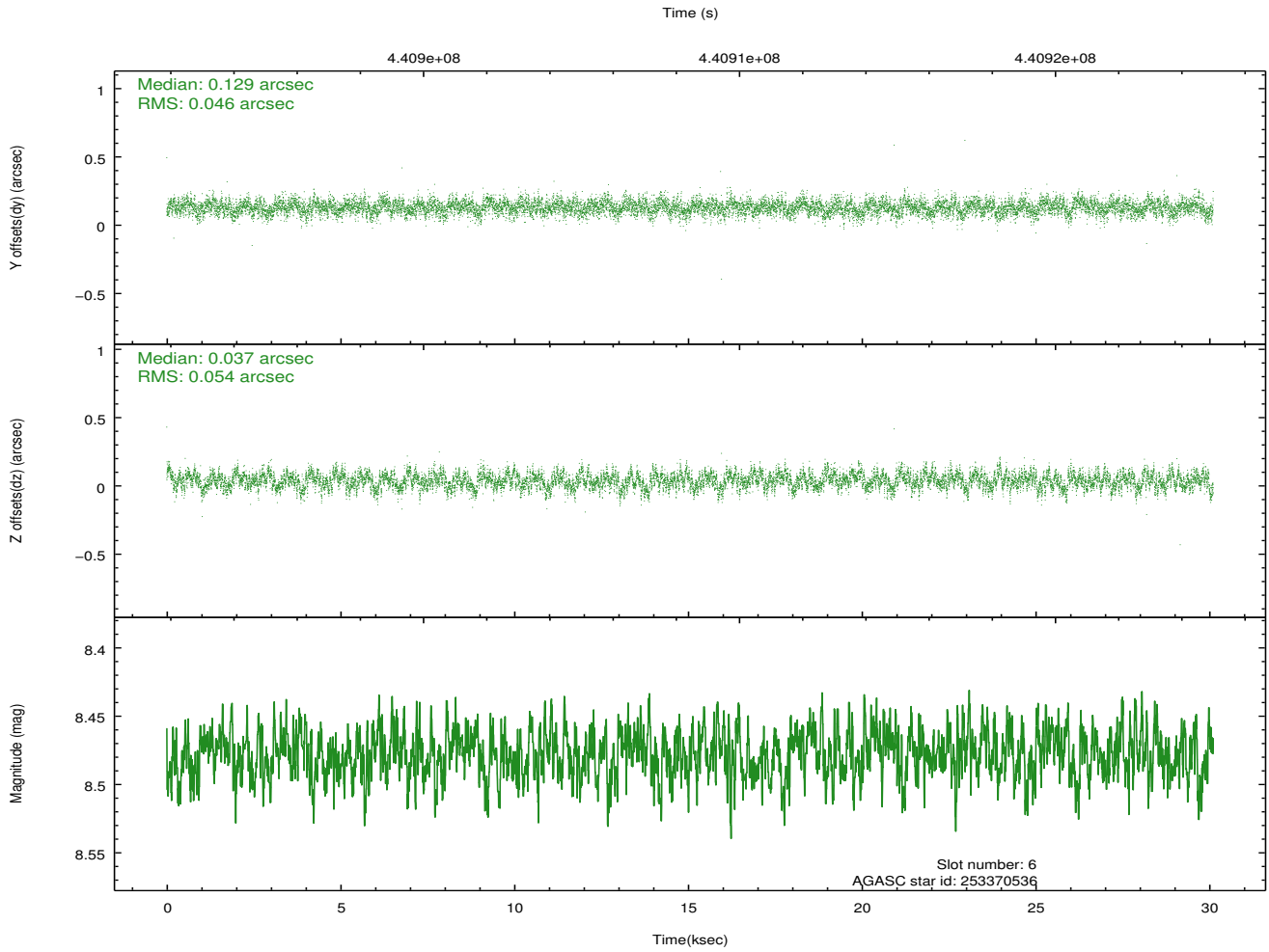
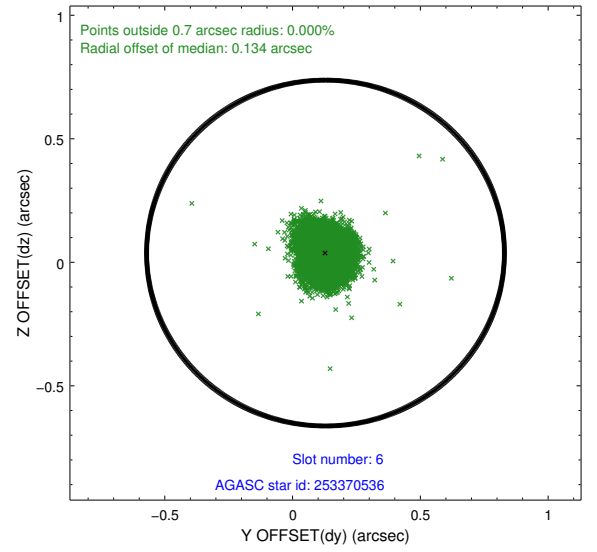
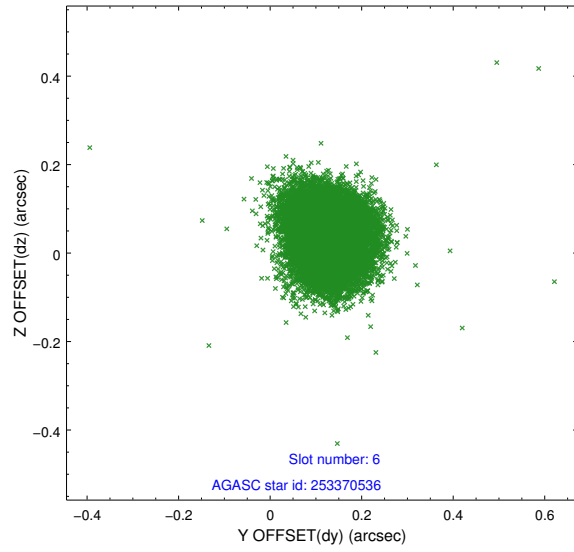
2.4.2 Slot 4



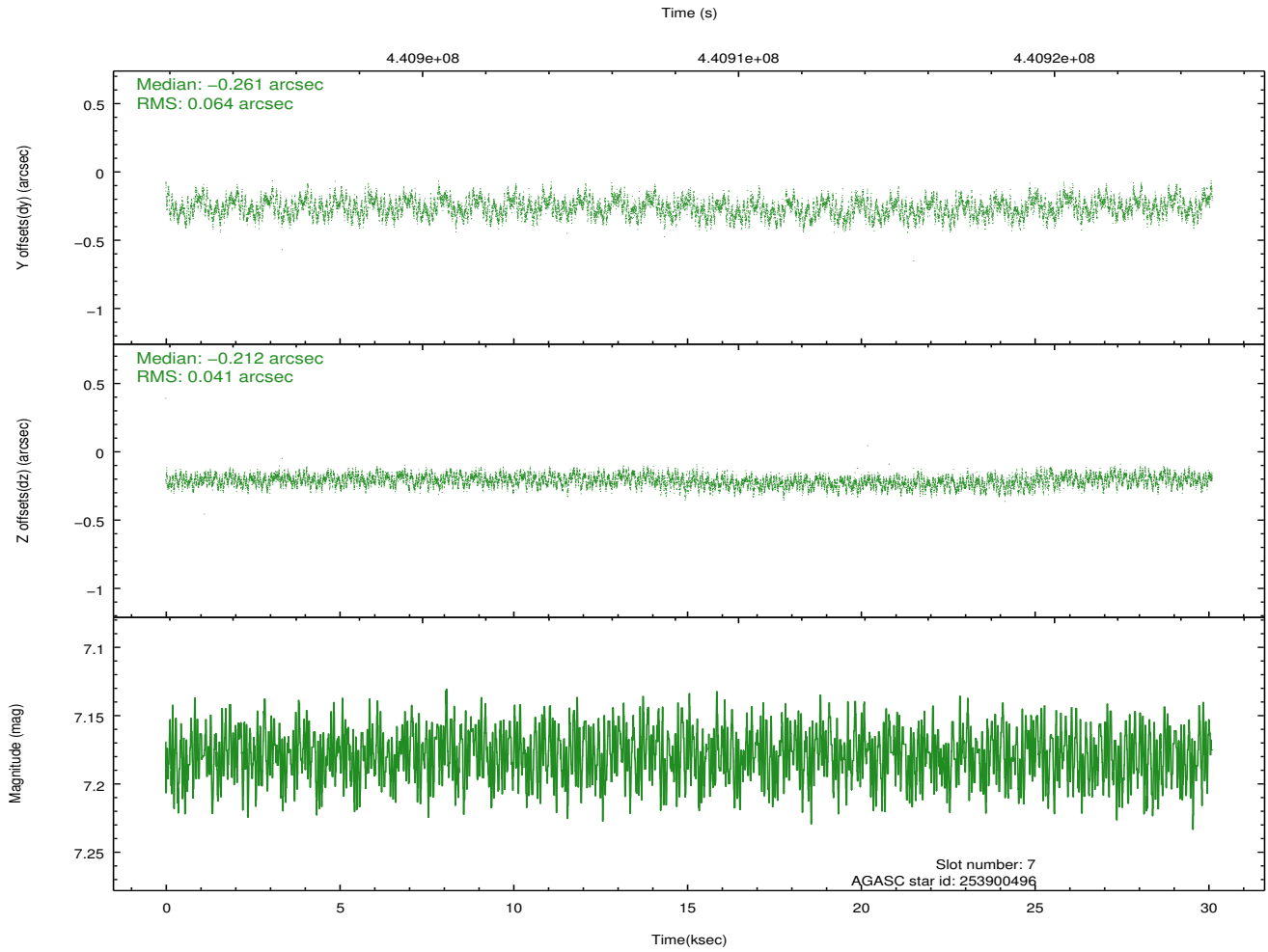
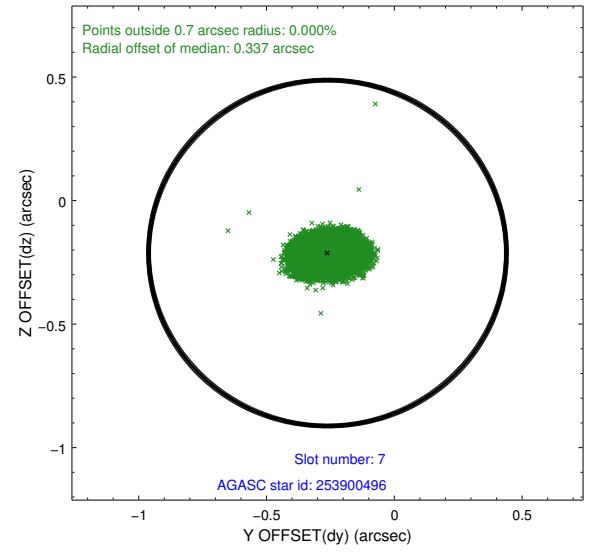
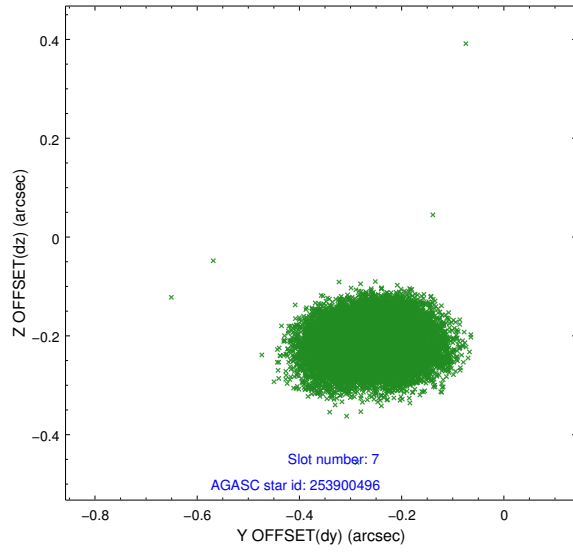
2.4.3 Slot 5



2.4.4 Slot 6

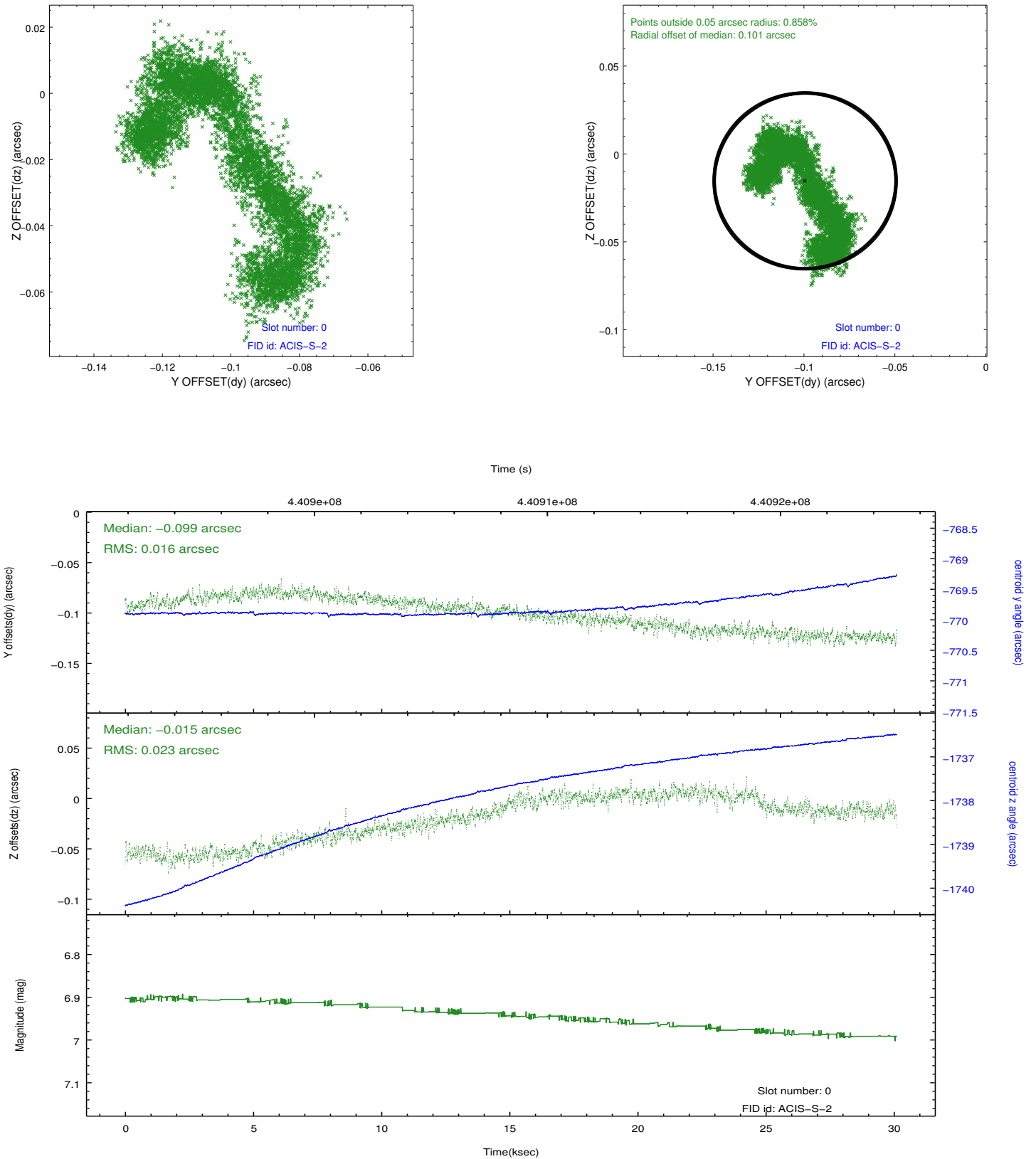


2.4.5 Slot 7

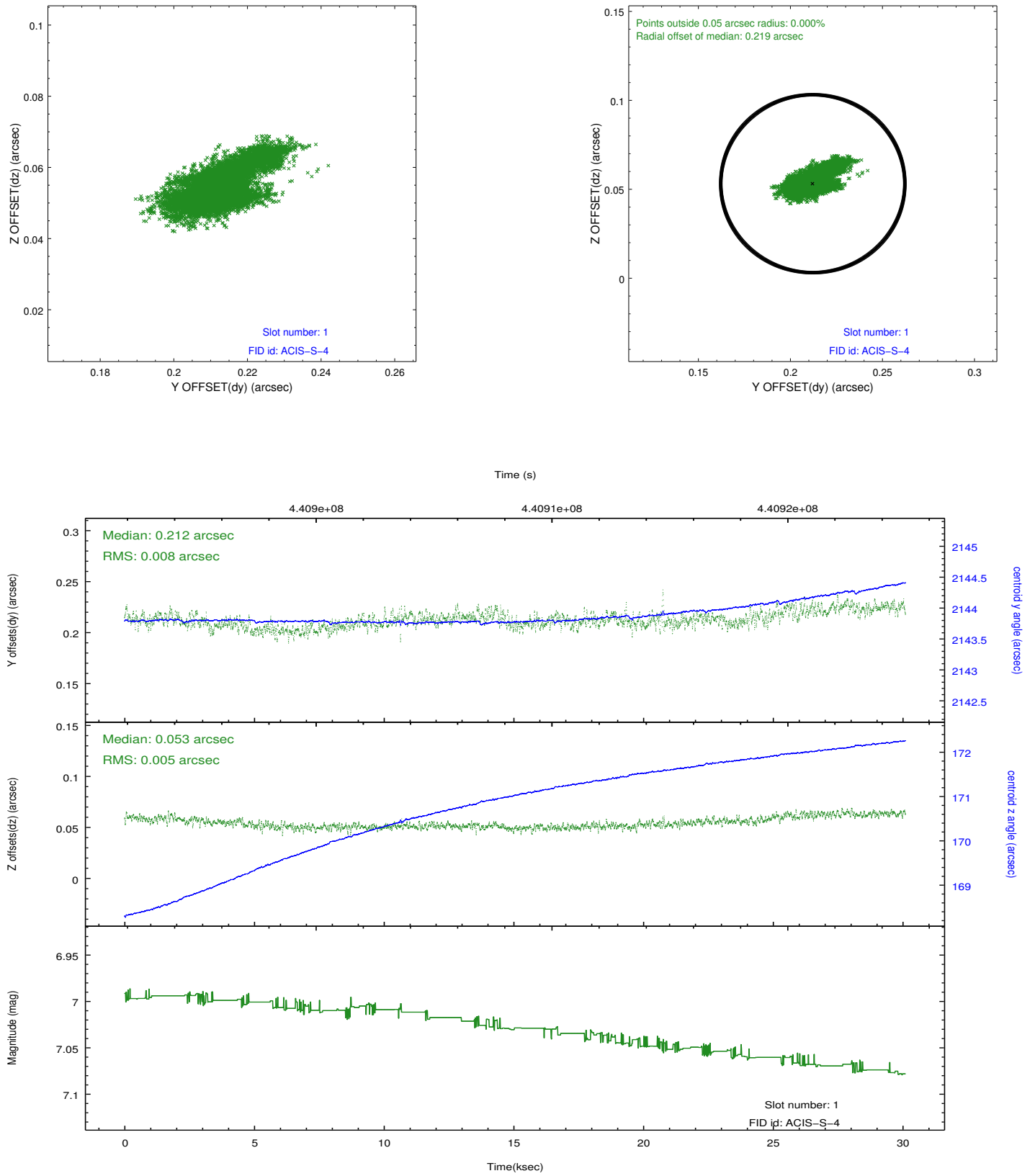


2.5 FID Slots

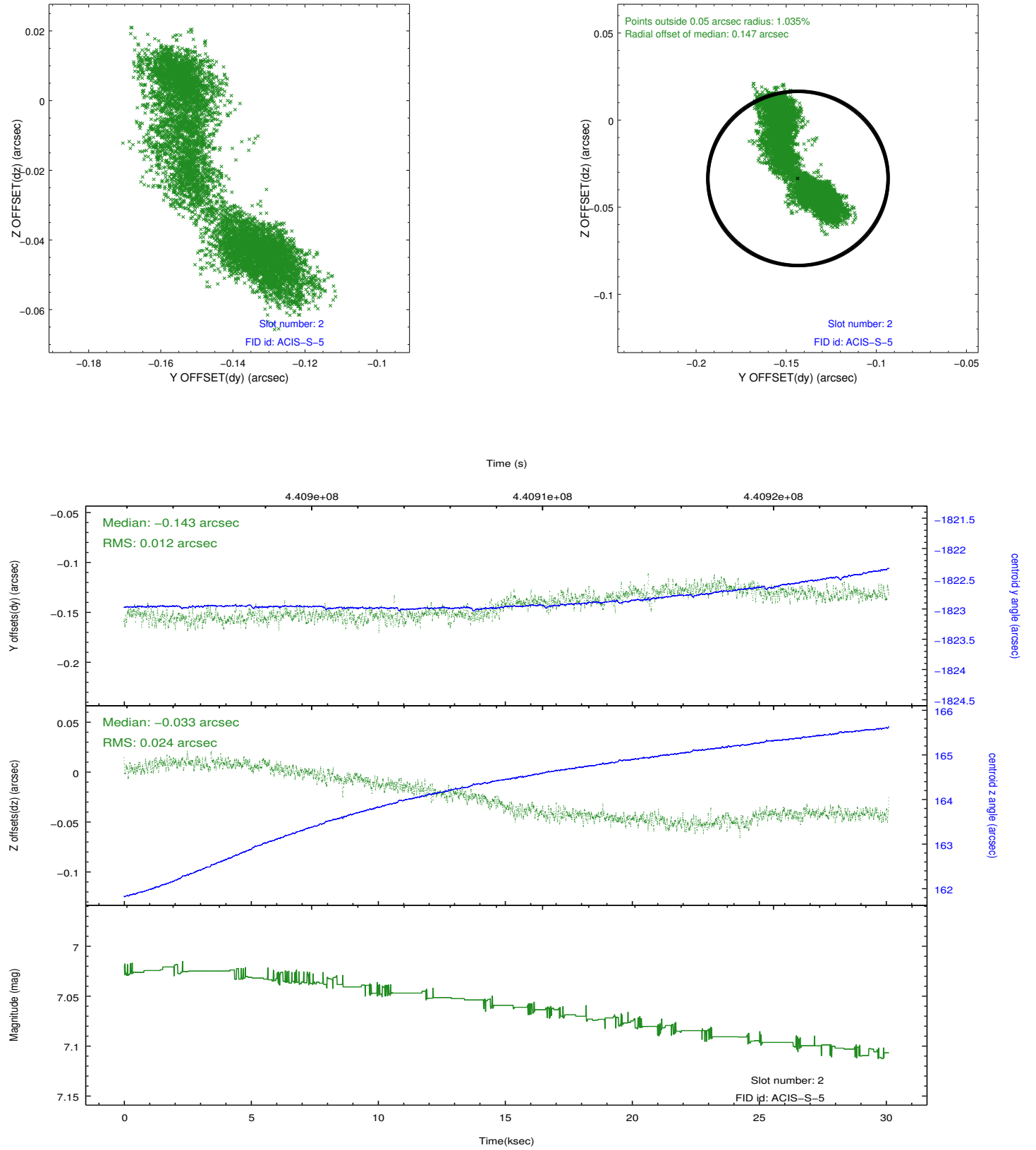
2.5.1 Slot 0



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)	2012.03.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.042100231051

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:
(118.29155,27.76369), (118.28832,27.76355), (118.29560,27.62423), (118.29882,27.62437)