

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11552 - L2 Version 2
Chandra X-Ray Center

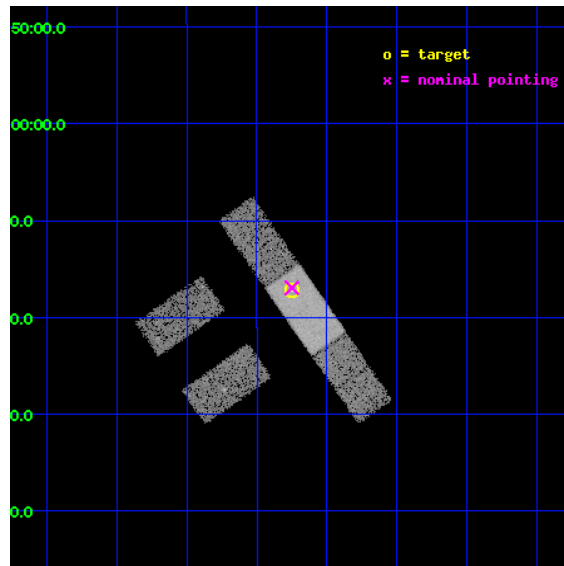
L2 Processing Date : Jul 5 2012

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1 Front

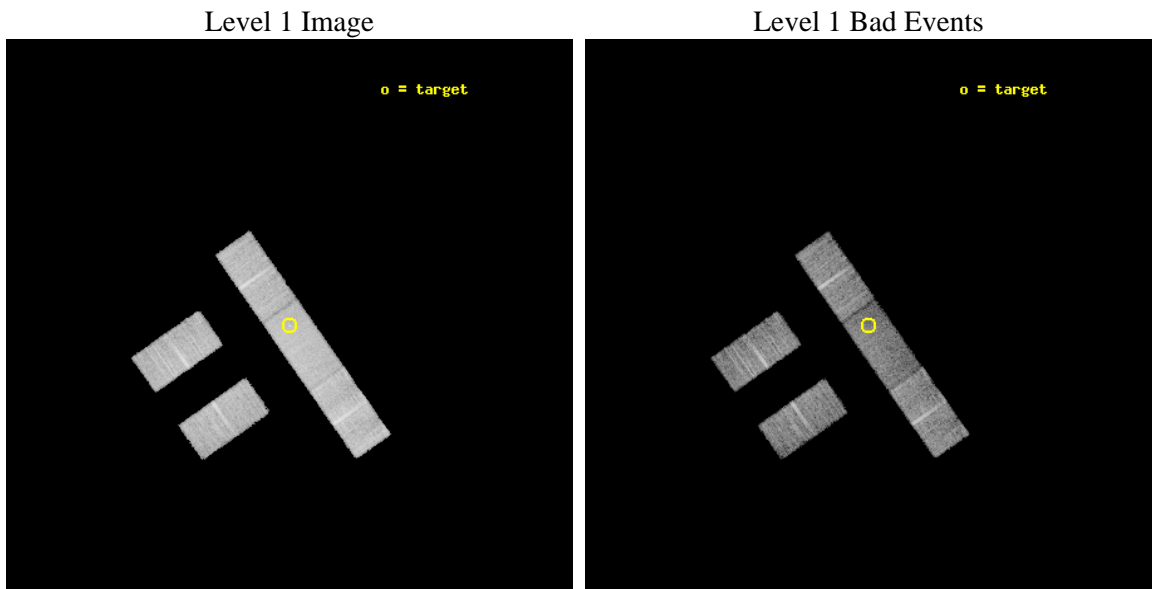
seq_num	702138	Sequence number
obs_id	11552	Observation id
title	The Size of Quasar Non-Thermal/X-ray Emission Regions	Proposal tit
observer	Prof. Christopher Kochanek	Principal investigator
object	HE0435-1223	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	69.562083	Observer's specified target RA [deg]
dec_targ	-12.287333	Observer's specified target Dec [deg]
ra_nom	69.562391595225	Nominal RA [deg]
dec_nom	-12.282494724655	Nominal Dec [deg]
roll_nom	55.038537366121	Nominal Roll [deg]
revision	2	Processing version of data
ontime	13065.506434679	Sum of GTIs [s]
livetime	12757.524777693	Livetime [s]
ontime2	13065.342274666	Sum of GTIs [s]
ontime3	13065.424354672	Sum of GTIs [s]
ontime6	13065.465394676	Sum of GTIs [s]
ontime7	13065.506434679	Sum of GTIs [s]
ontime8	13065.383314669	Sum of GTIs [s]
l2events	47325	Number of level 2 events



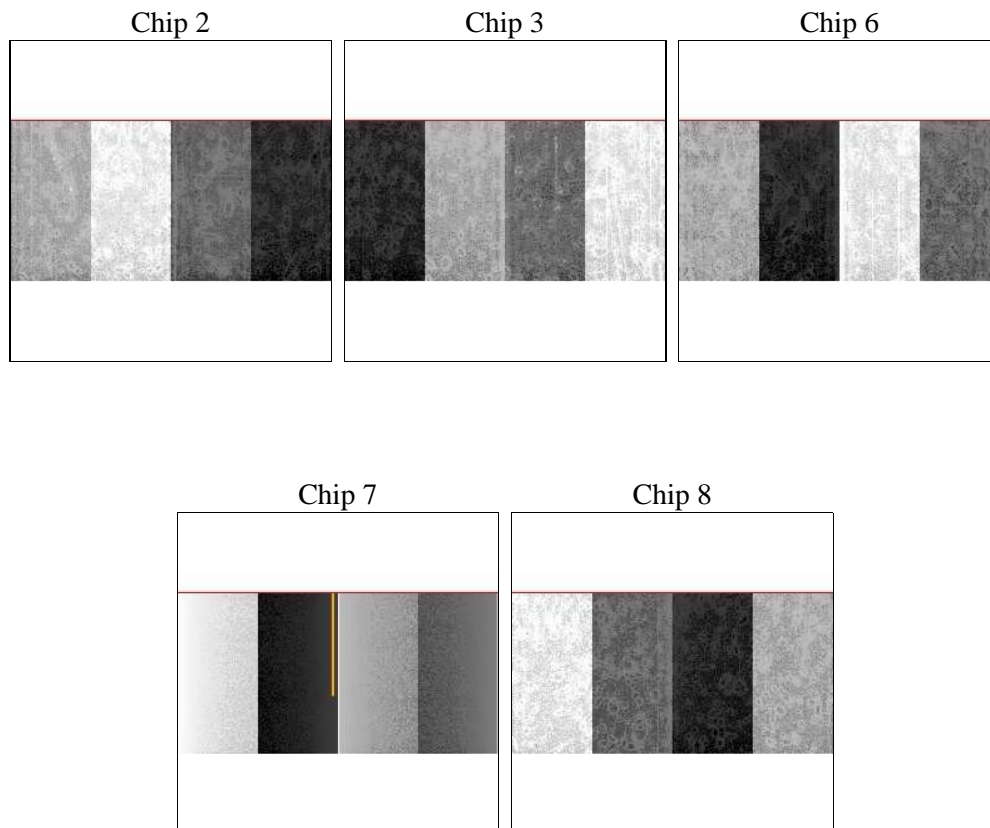
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	13000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	13065.506434679	Sum of GTIs [s]
caldbver	4.5.0	 	ontime2	13065.342274666	Sum of GTIs [s]
date	2012-07-05T20:55:32	Date and time of file creation	ontime3	13065.424354672	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	13065.465394676	Sum of GTIs [s]
			ontime7	13065.506434679	Sum of GTIs [s]
			ontime8	13065.383314669	Sum of GTIs [s]
			l1events	282401	Number of level 1 events

2.1.4 Events

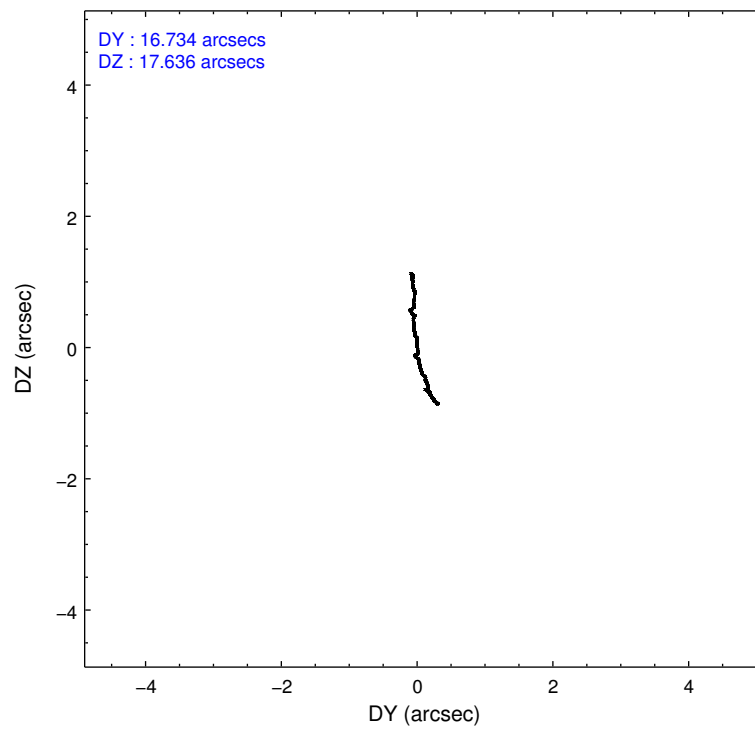
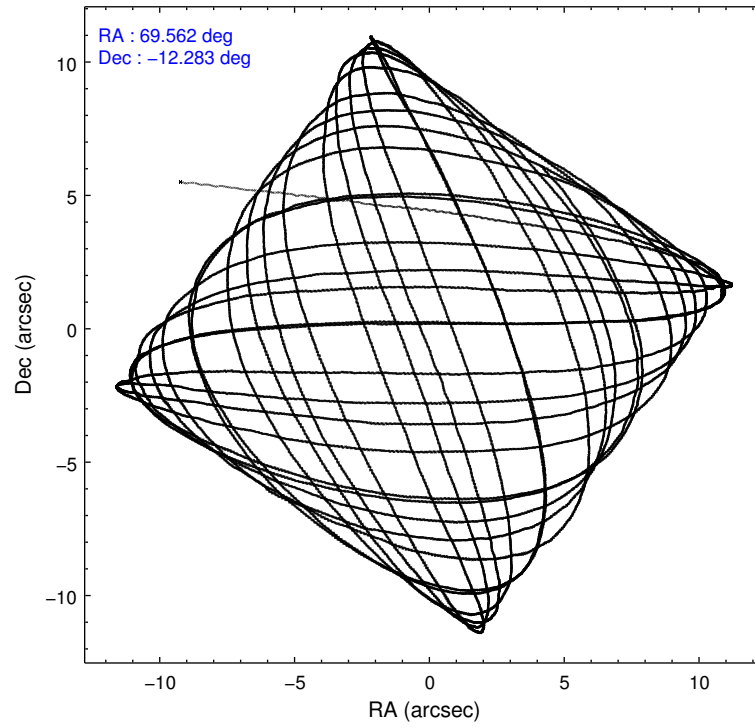
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	52772	48127	53592	61274	66636
rejected events	47145	42747	47561	33083	49625
rejected %	89%	88%	88%	53%	74%

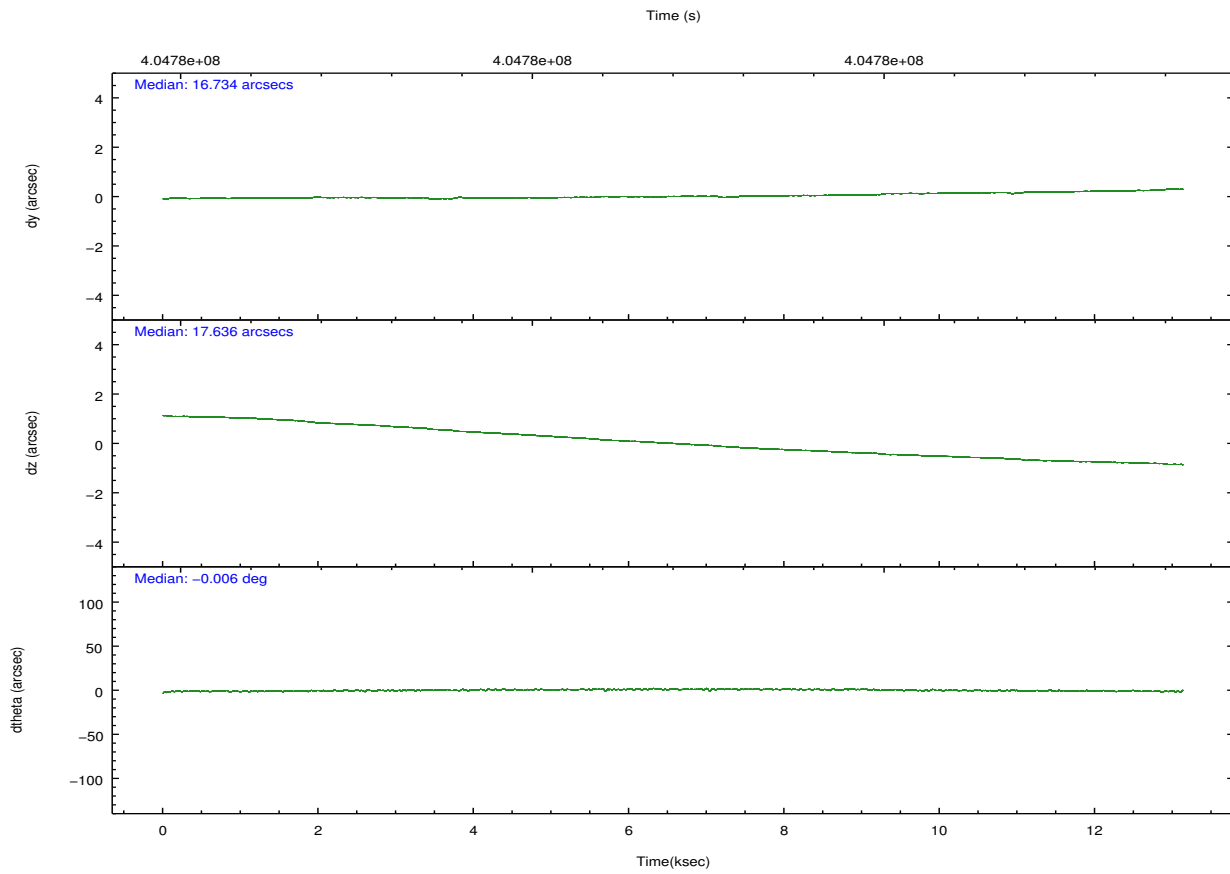
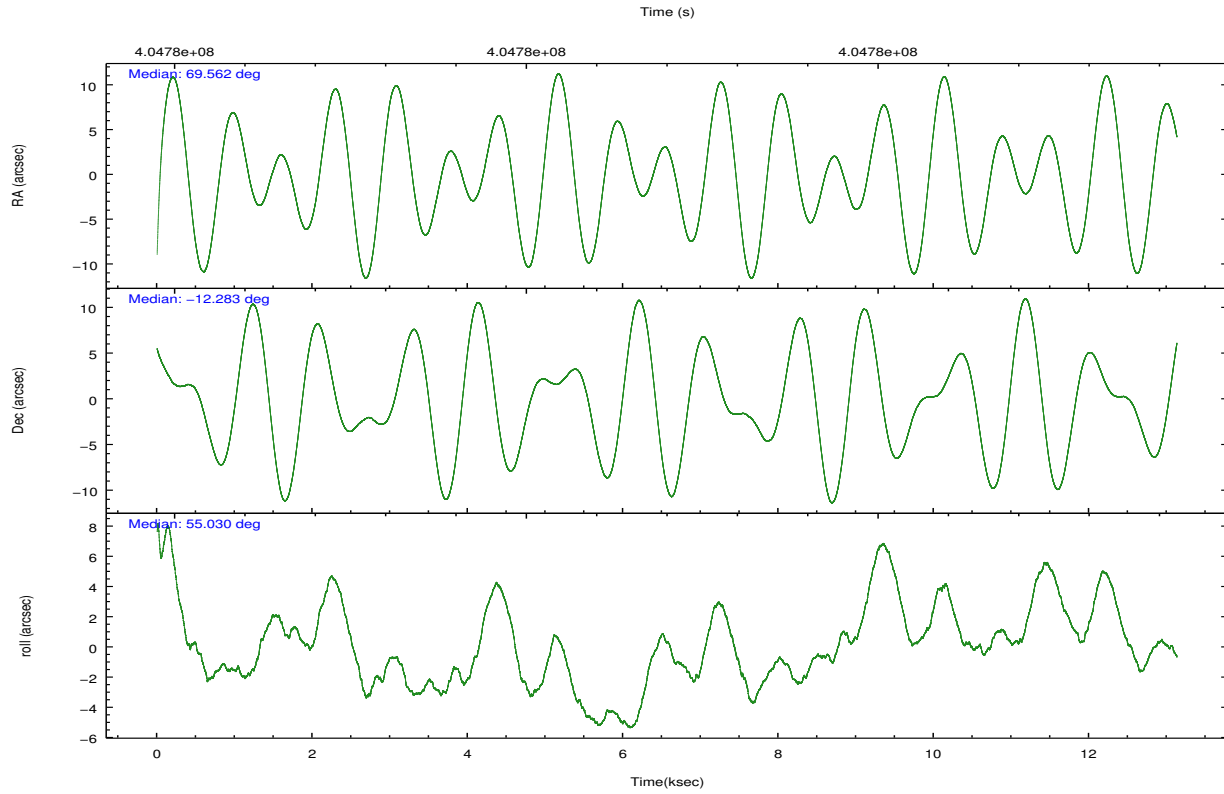
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1941	1809	2000	2805	5034
	3%	3%	3%	4%	7%
grade 1 events	29	30	22	81	42
	0%	0%	0%	0%	0%
grade 2 events	1317	1214	1314	5784	3817
	2%	2%	2%	9%	5%
grade 3 events	704	707	710	2780	1893
	1%	1%	1%	4%	2%
grade 4 events	716	621	721	2790	1859
	1%	1%	1%	4%	2%
grade 5 events	1765	2269	2276	6444	3163
	3%	4%	4%	10%	4%
grade 6 events	951	1029	1287	14037	4408
	1%	2%	2%	22%	6%
grade 7 events	45349	40448	45262	26553	46420
	85%	84%	84%	43%	69%

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	69.560331	69.56239159522482	CCD I2 on	O4	Y
[deg] Pointing Dec	-12.309767	-12.28249472465516	CCD I3 on	O3	Y
[deg] Pointing Roll	54.881461	55.03853736612075	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	O1	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	O2	Y
[s] Observation start time (MET)	404775563.184000	404774385.77896	CCD S5 on	N	N
Observation start date	2010-10-29T21:38:17	2010-10-29T21:19:45	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	404788563.184000	404789599.34224	On-chip summing requested	N	N
Observation end date	2010-10-30T01:14:57	2010-10-30T01:33:19	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.7

2.3 Aspect



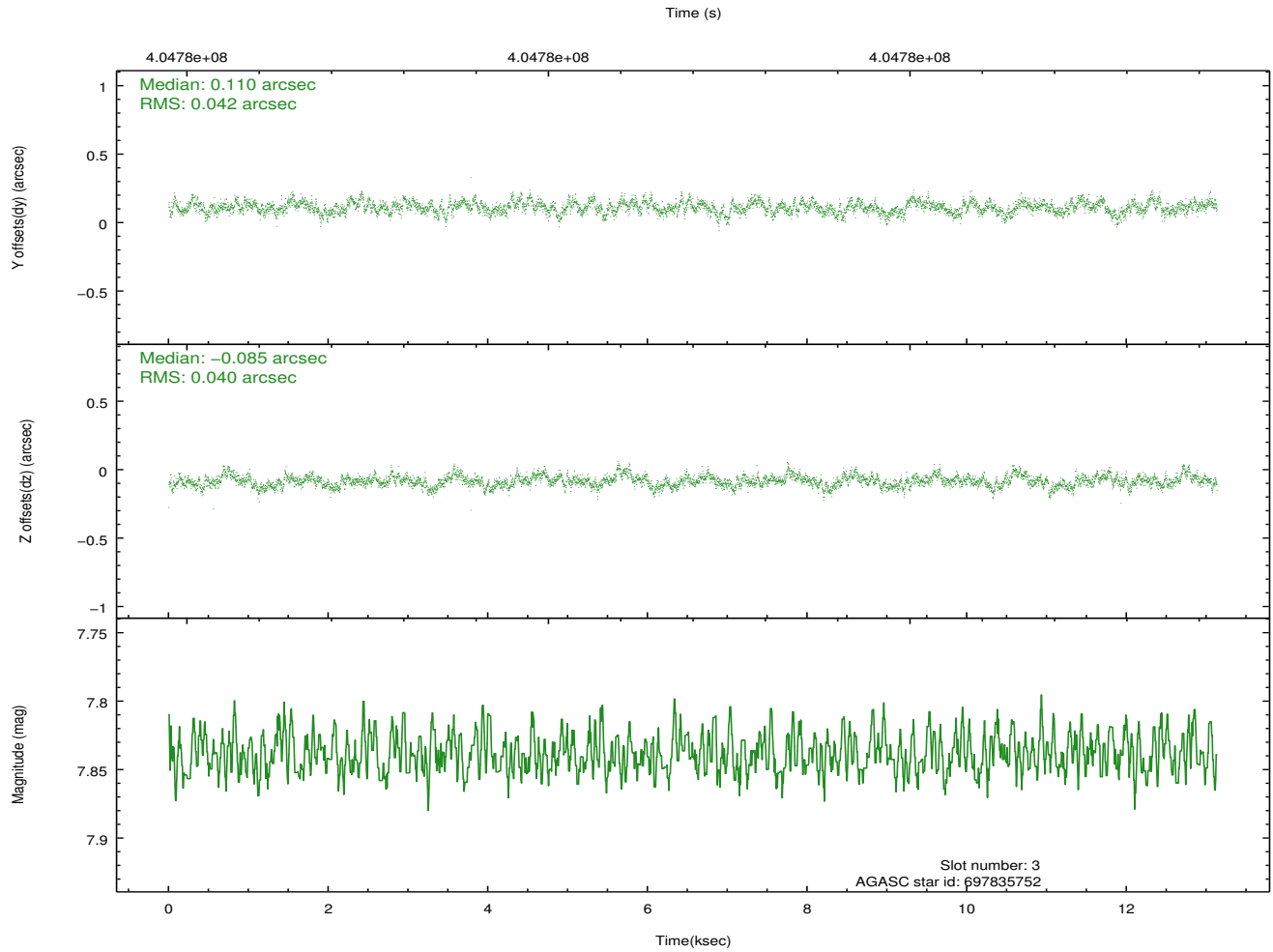
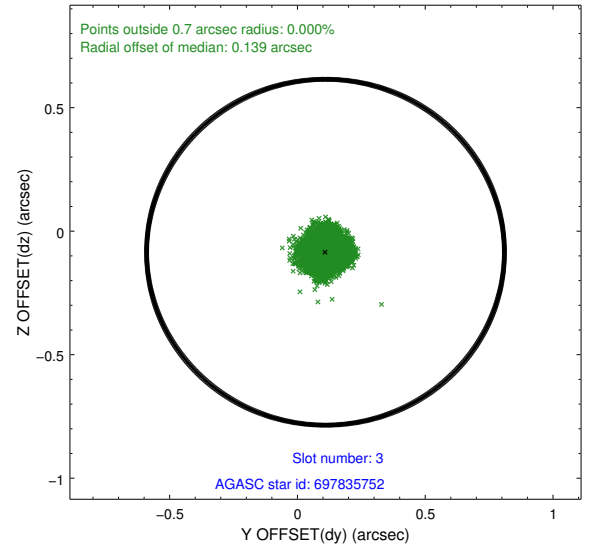
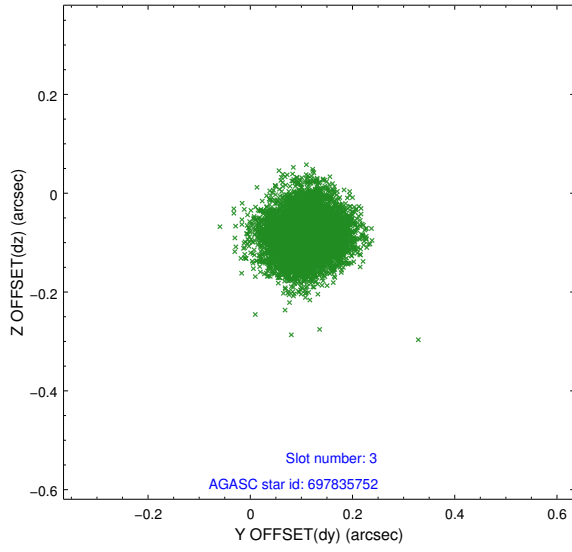


Slot Statistics

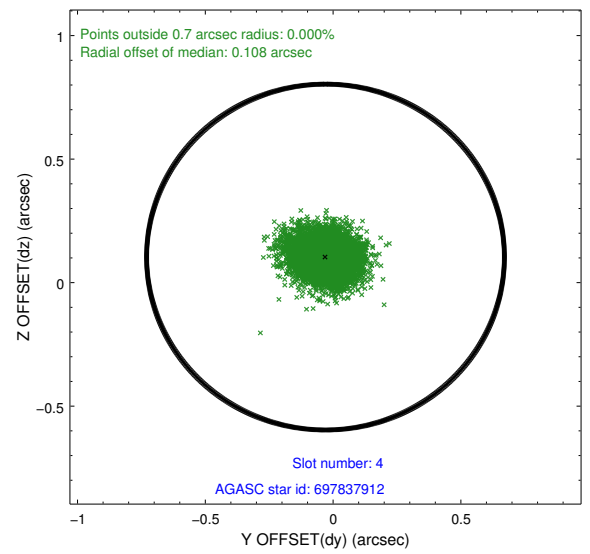
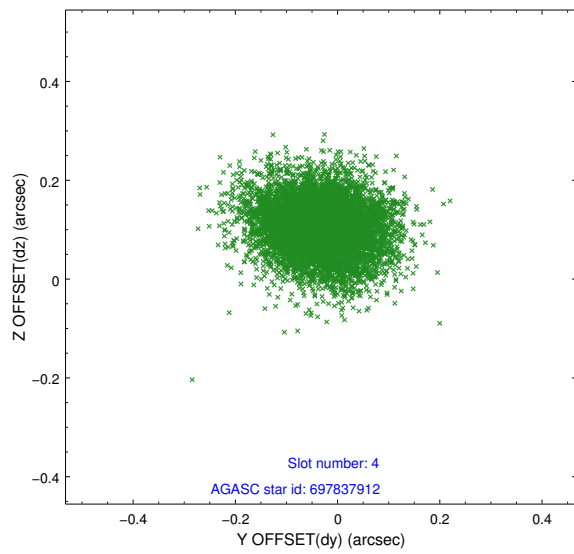
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.98	3203	0.111	-0.075	0.043	0.054	0.000000	0.000000	926.36	-1734.80
1	FID	ACIS-S-5	7.02	3202	-0.120	0.085	0.007	0.011	0.000000	0.000000	-1822.66	162.53
2	FID	ACIS-S-6	7.12	3203	-0.014	-0.002	0.040	0.060	0.000000	0.000000	391.39	806.83
3	GUIDE	697835752	7.84	6407	0.110	-0.085	0.062	0.098	69.312835	-12.164170	-72.10	1013.45
4	GUIDE	697837912	9.33	6401	-0.030	0.104	0.092	0.152	70.091872	-12.106315	1674.27	-1109.48
5	GUIDE	697841640	8.35	6405	-0.102	-0.213	0.062	0.102	69.473321	-11.880587	1087.64	1139.47
6	GUIDE	698220616	7.52	6406	-0.041	-0.003	0.062	0.096	69.313891	-12.560296	-1235.89	189.42
7	GUIDE	698221568	8.62	6400	0.067	0.197	0.078	0.126	69.849031	-12.529974	-65.48	-1285.38

2.4 Star Slots

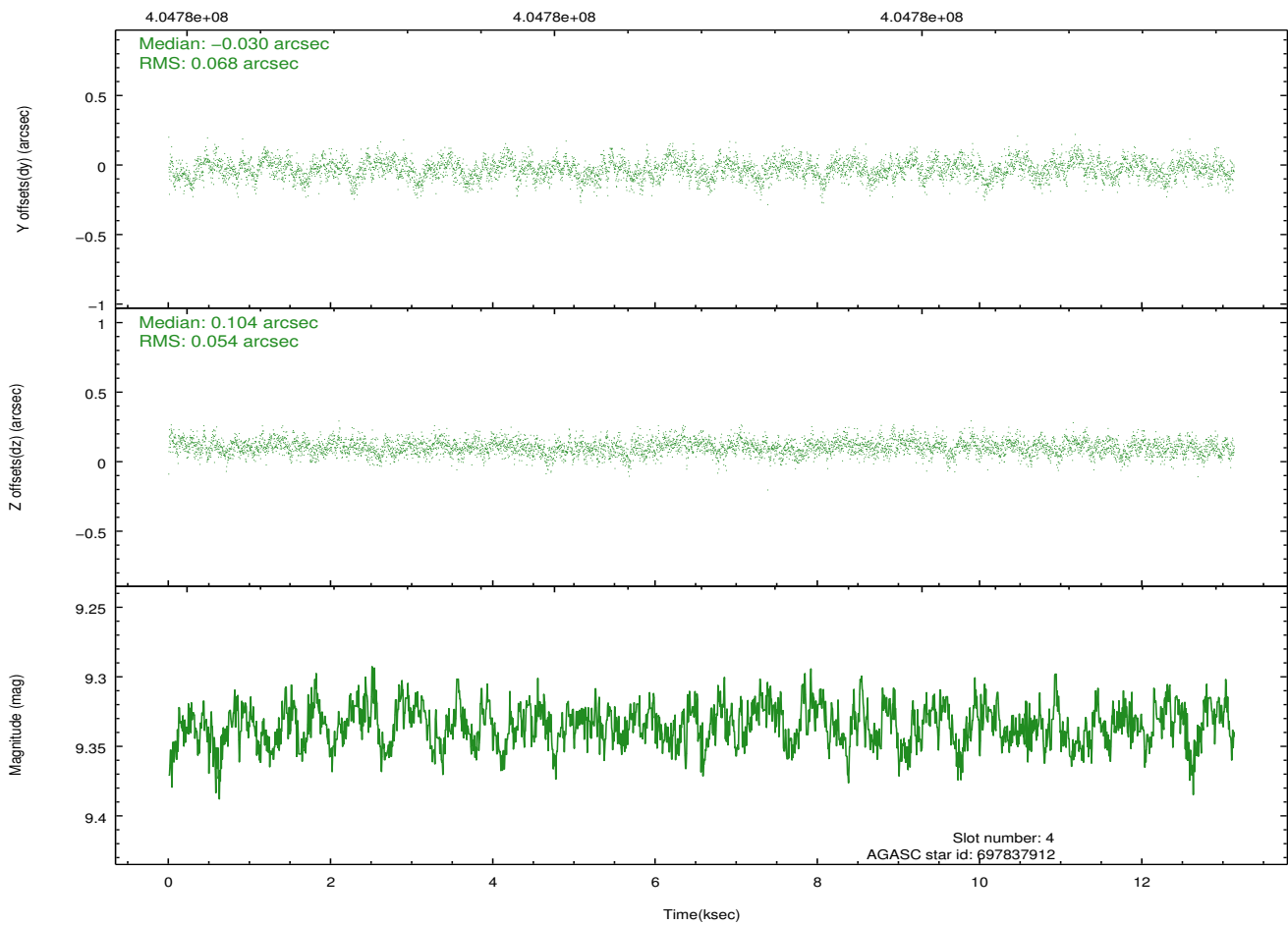
2.4.1 Slot 3



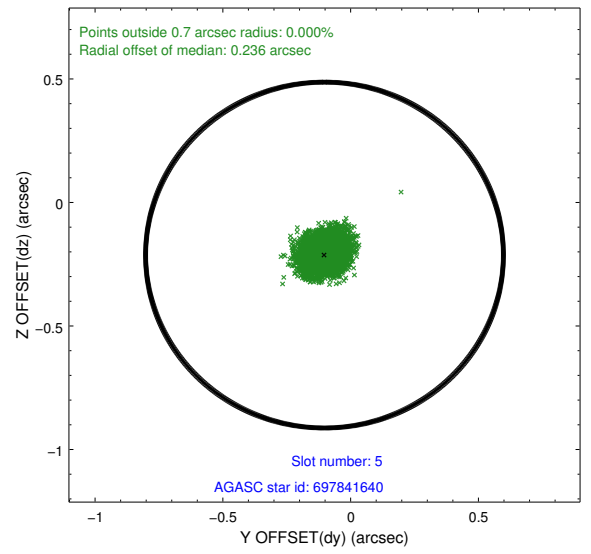
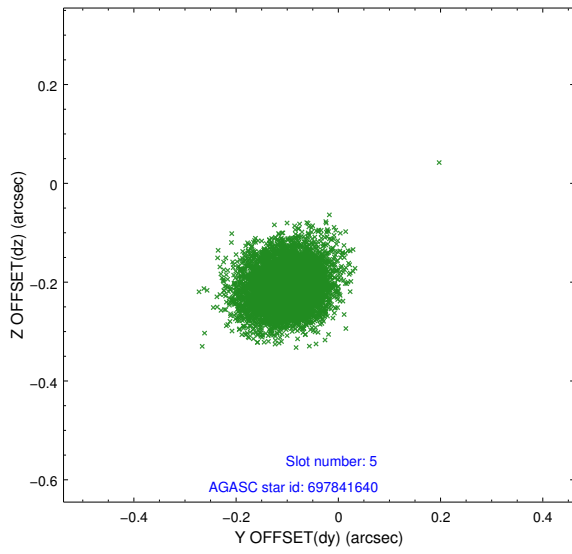
2.4.2 Slot 4



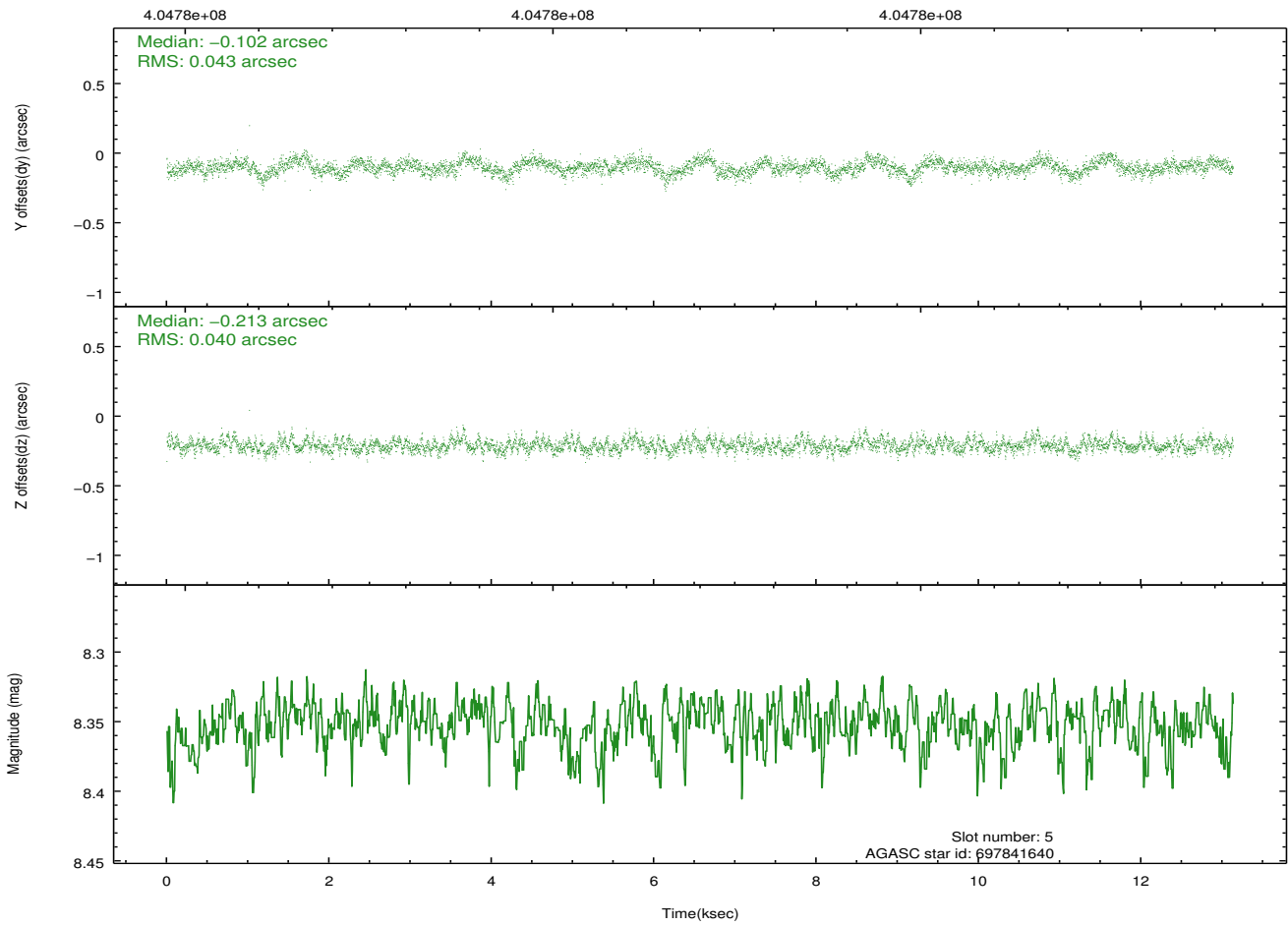
Time (s)



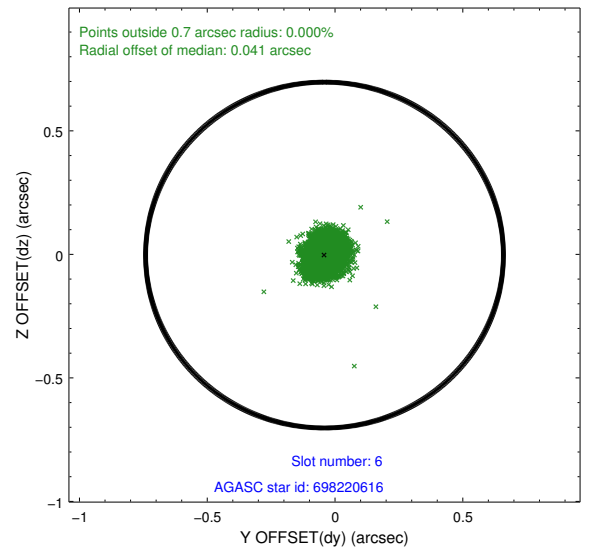
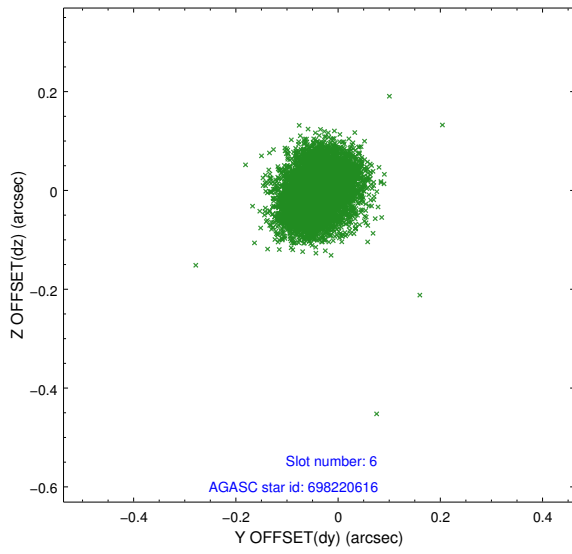
2.4.3 Slot 5



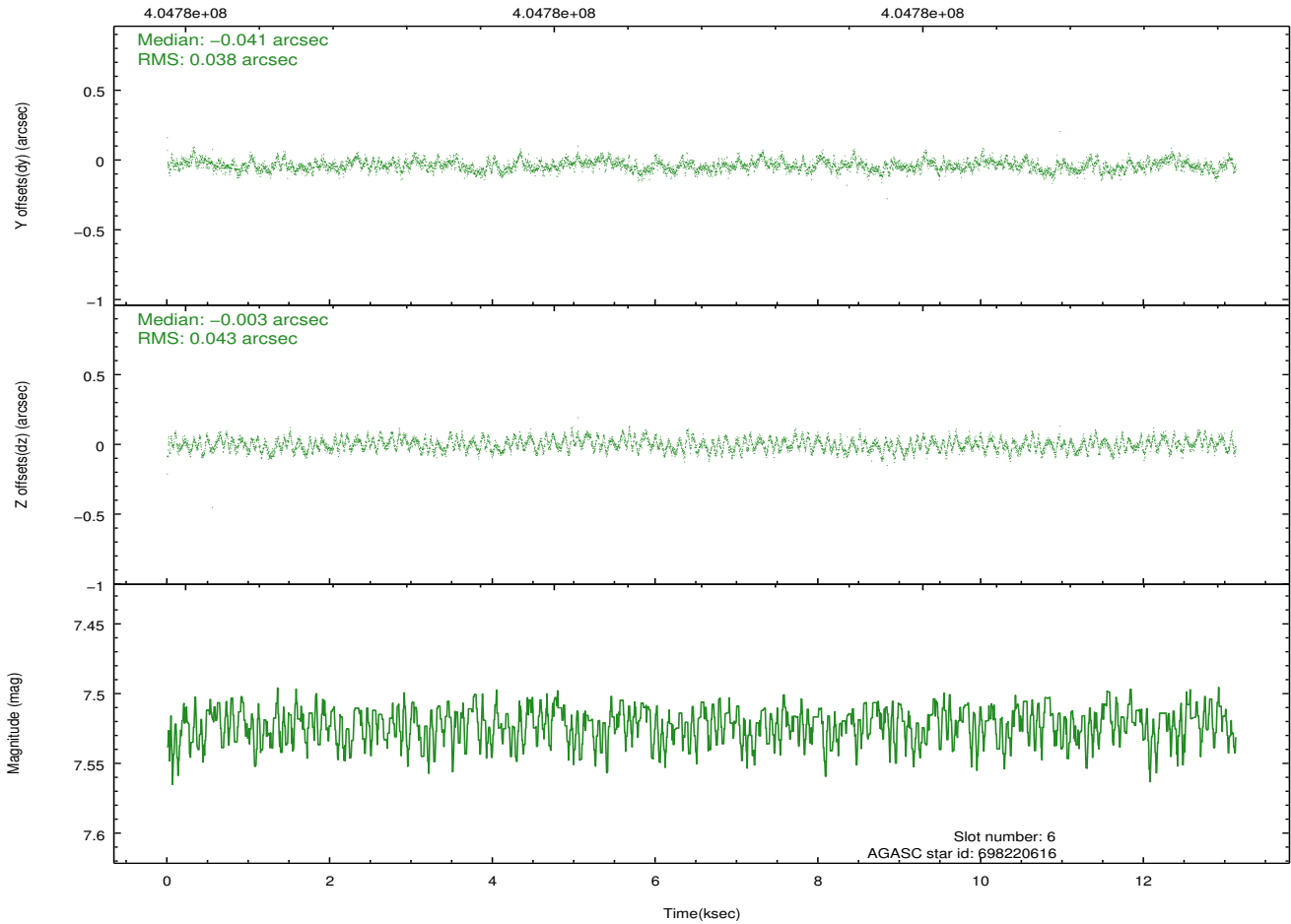
Time (s)



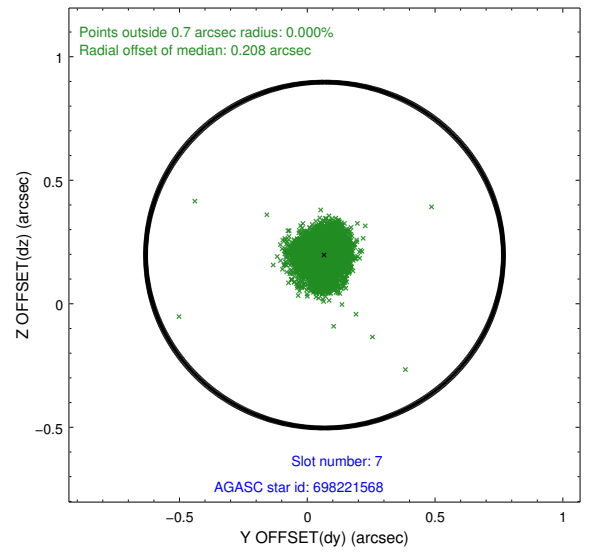
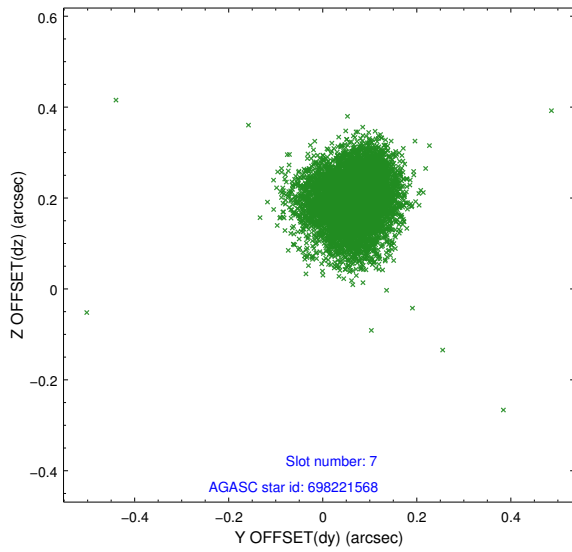
2.4.4 Slot 6



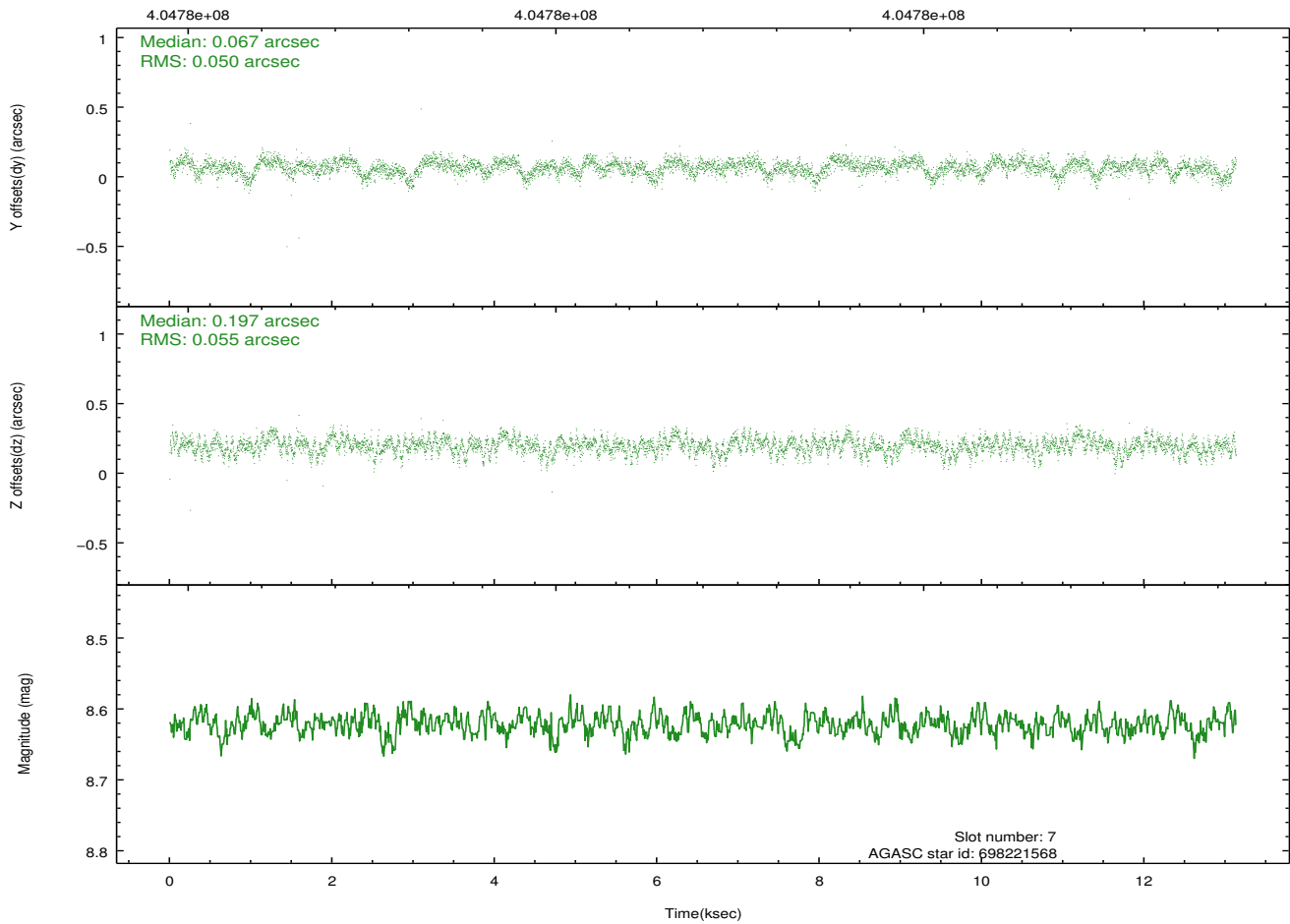
Time (s)



2.4.5 Slot 7

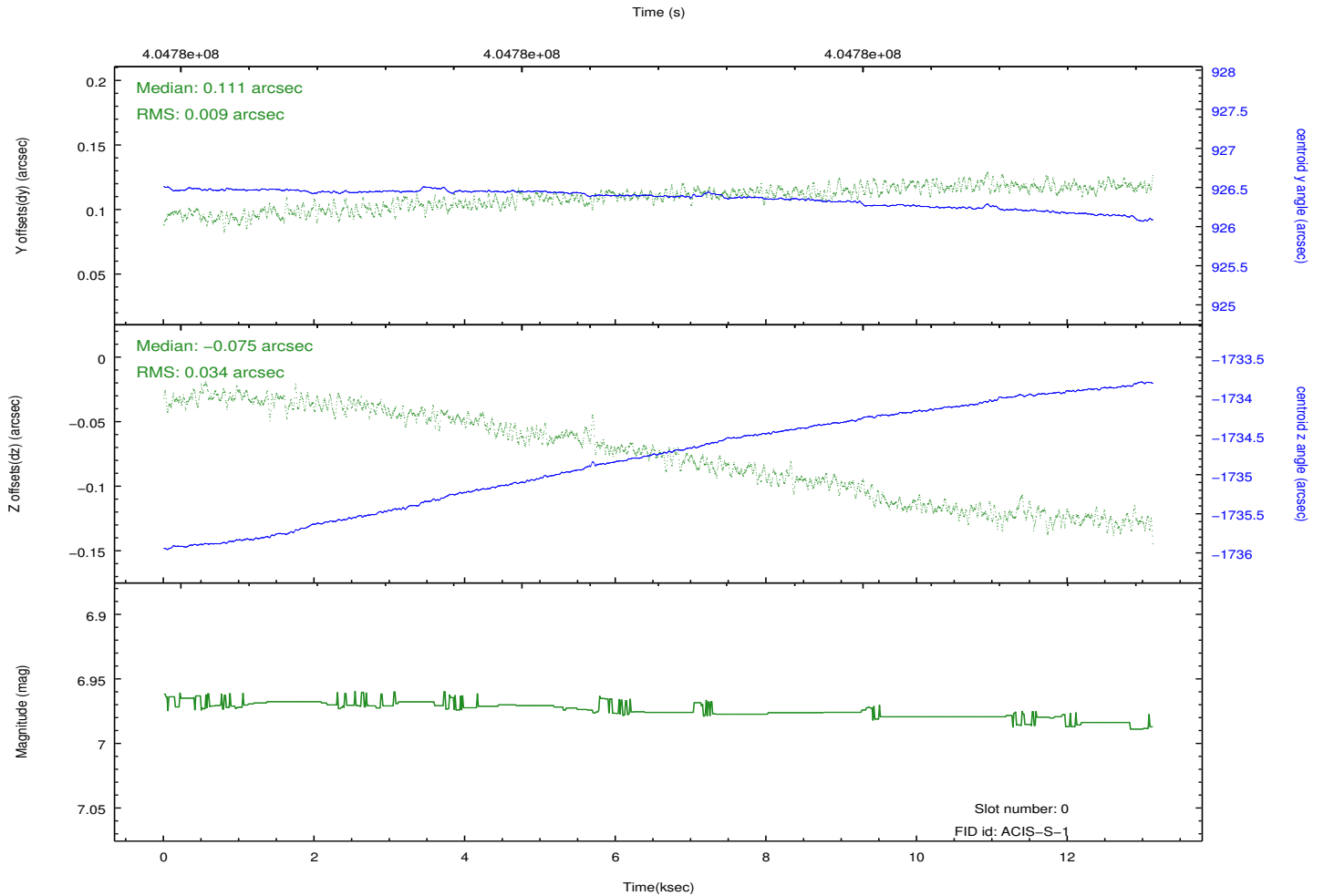
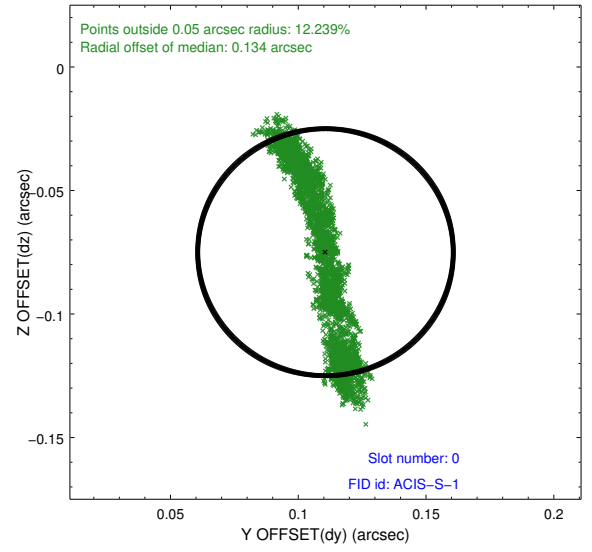
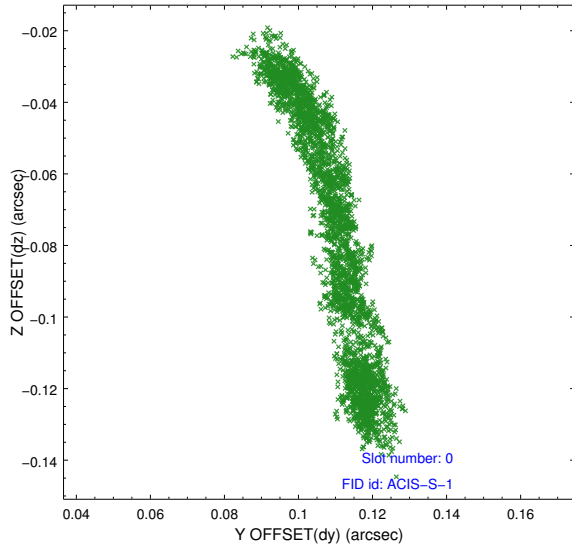


Time (s)

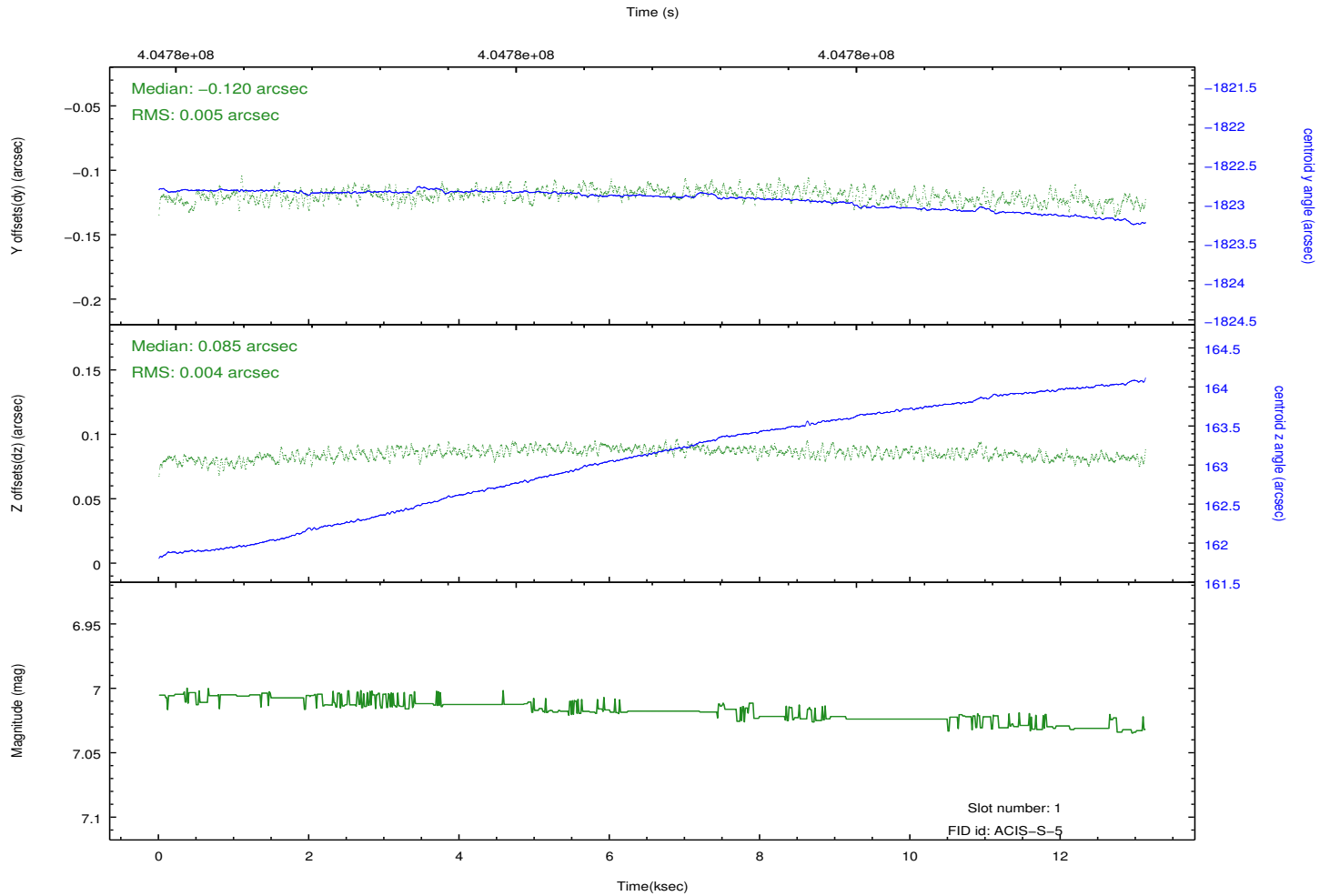
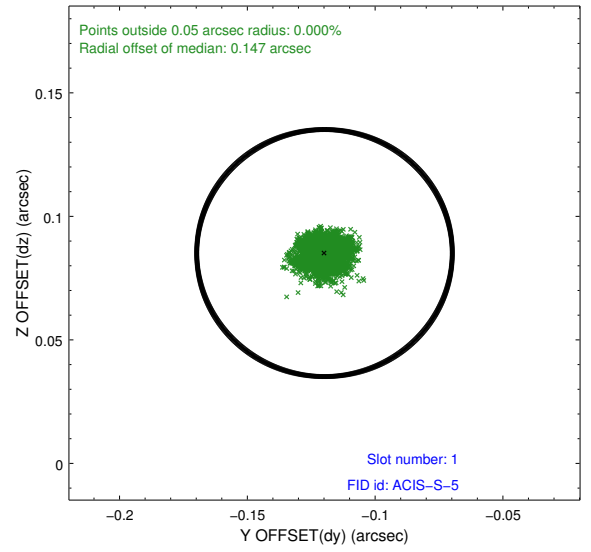
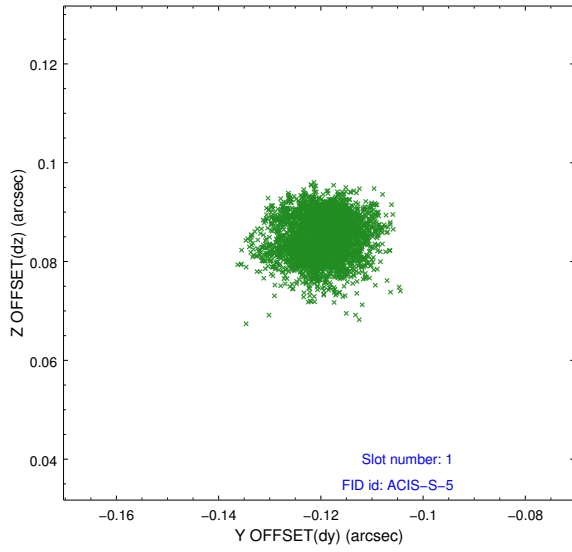


2.5 FID Slots

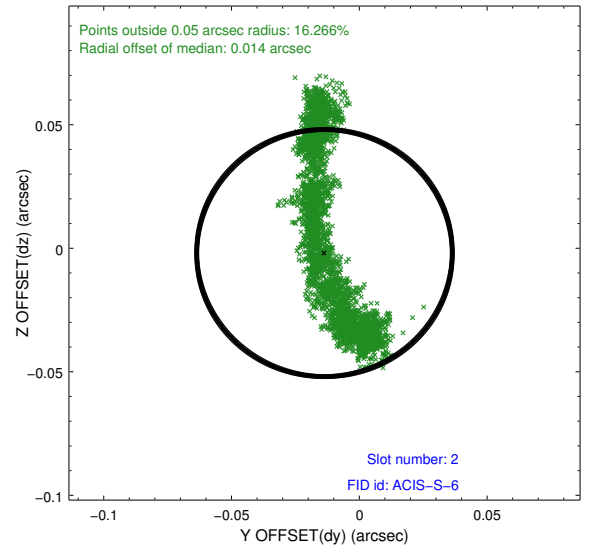
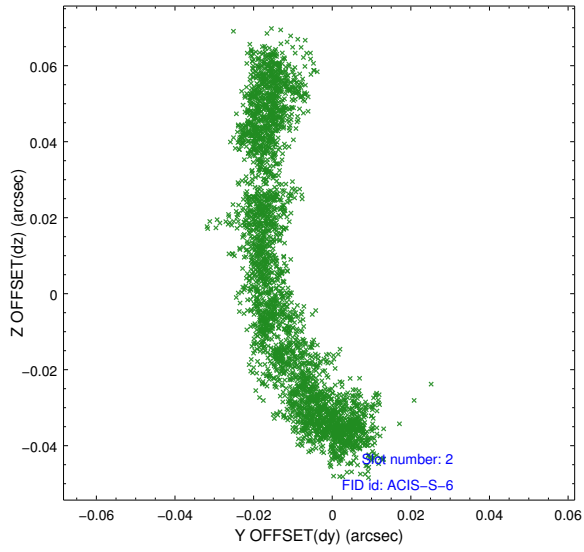
2.5.1 Slot 0



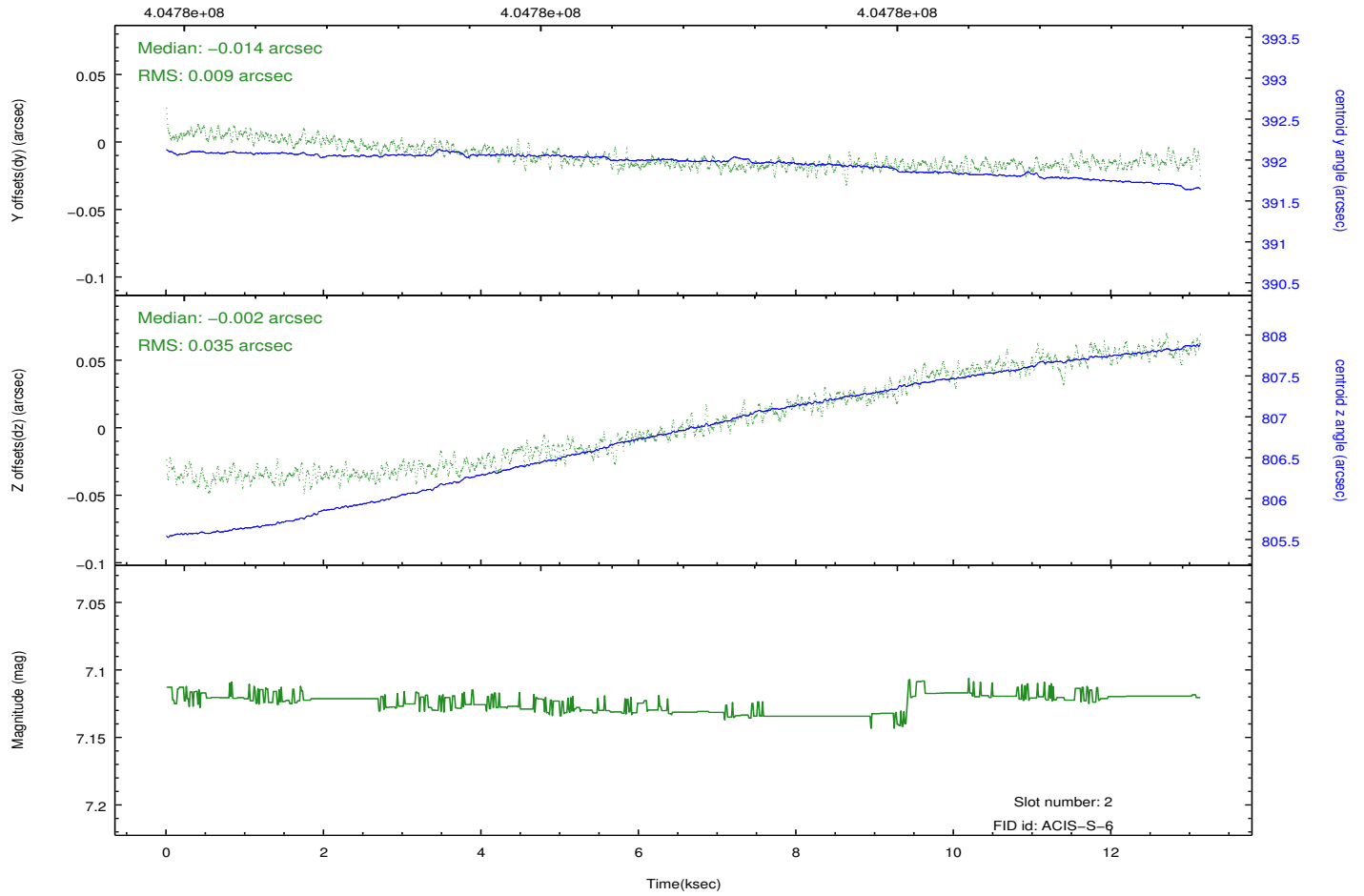
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.07.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.065506436288

A.2 Comments

Monitor constraint met, follows obs11551 by 117 days.