

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10941 - L2 Version 2
Chandra X-Ray Center

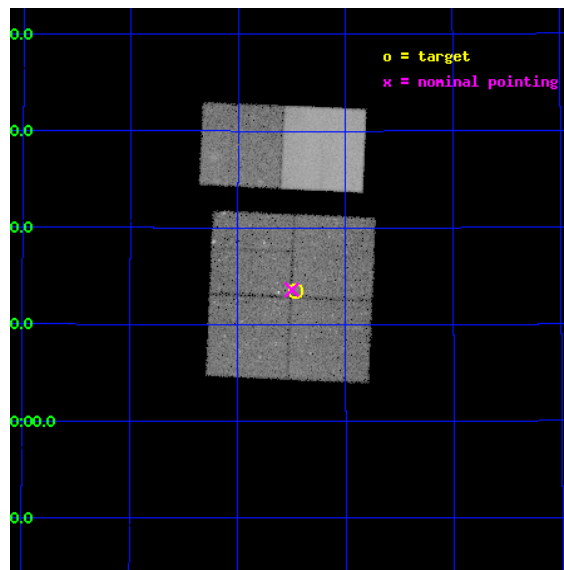
L2 Processing Date : Jun 20 2012

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

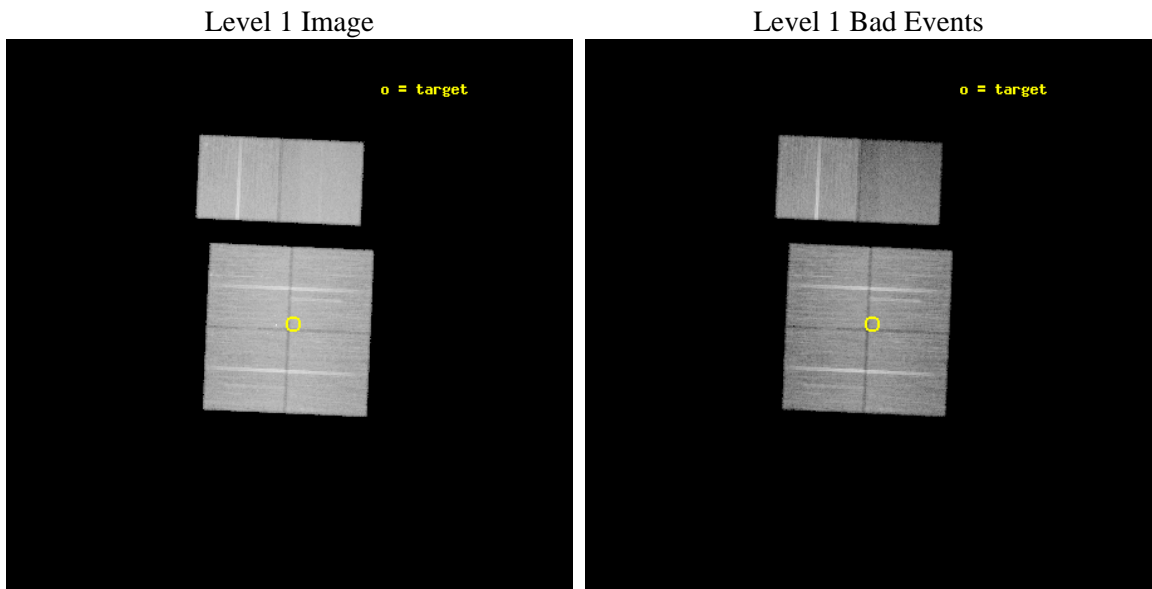
seq_num	200573	Sequence number
obs_id	10941	Observation id
title	The Chandra Cygnus OB2 Survey	Proposal title
observer	Dr. Jeremy Drake	Principal investigator
object	Cygnus OB2	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	307.864693	Observer's specified target RA [deg]
dec_targ	41.223929	Observer's specified target Dec [deg]
ra_nom	307.87478948596	Nominal RA [deg]
dec_nom	41.226687192126	Nominal Dec [deg]
roll_nom	2.5637002417037	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30127.917947054	Sum of GTIs [s]
livetime	29746.420109154	Livetime [s]
ontime0	30131.158917487	Sum of GTIs [s]
ontime1	30134.3998878	Sum of GTIs [s]
ontime2	30131.158897579	Sum of GTIs [s]
ontime3	30127.917947054	Sum of GTIs [s]
ontime6	30131.158917487	Sum of GTIs [s]
ontime7	30134.3998878	Sum of GTIs [s]
l2events	238459	Number of level 2 events



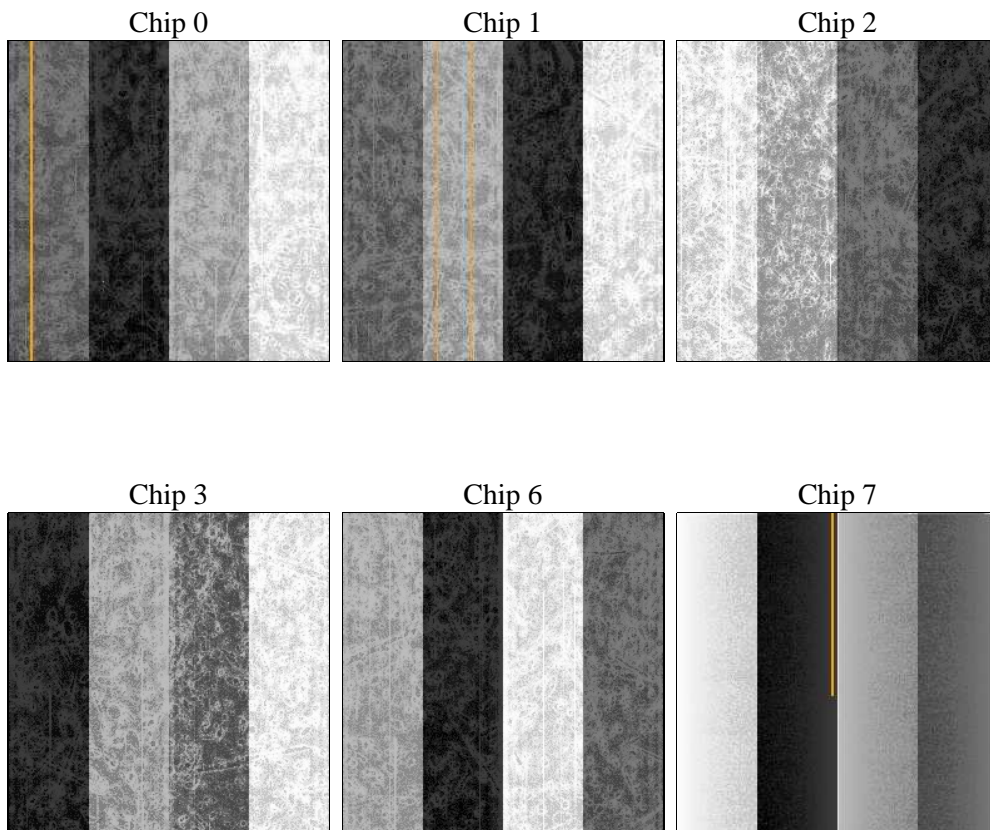
2 OBI

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	8.4.5	Processing system revision	ontime	30127.917947054	Sum of GTIs [s]
caldbver	4.4.10	 	ontime0	30131.158917487	Sum of GTIs [s]
date	2012-06-20T13:05:49	Date and time of file creation	ontime1	30134.3998878	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	30131.158897579	Sum of GTIs [s]
			ontime3	30127.917947054	Sum of GTIs [s]
			ontime6	30131.158917487	Sum of GTIs [s]
			ontime7	30134.3998878	Sum of GTIs [s]
			l1events	1491066	Number of level 1 events

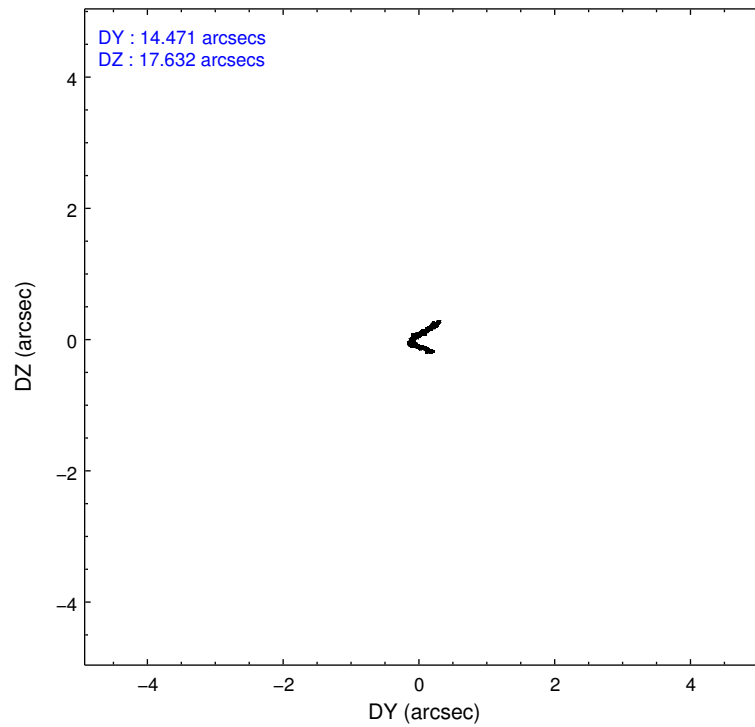
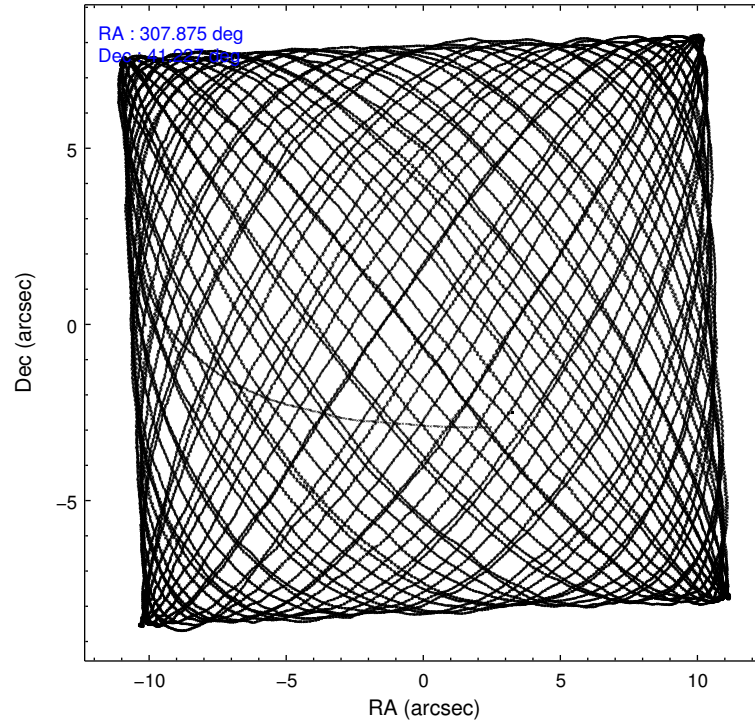
2.1.4 Events

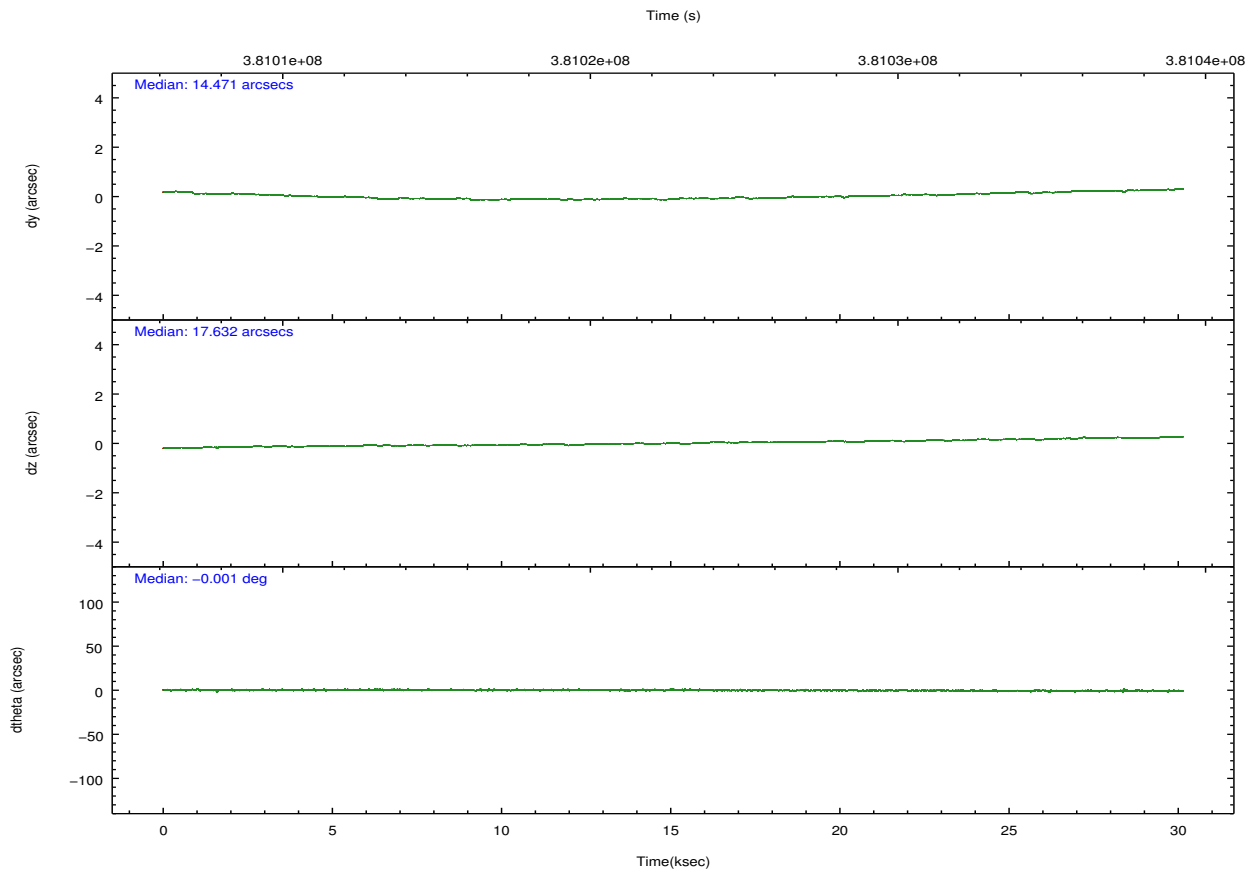
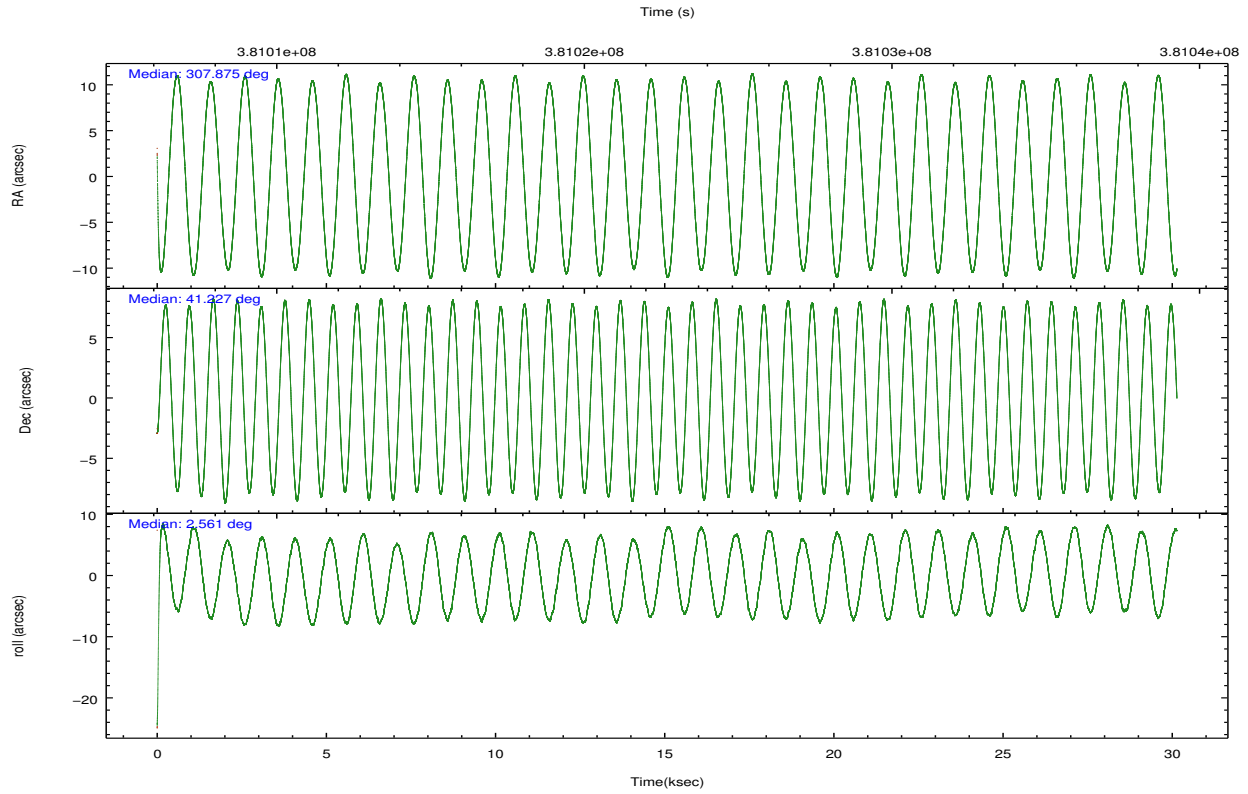
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	234218	232245	262205	248905	264256	249237	grade 0 events	14191	11632	14197	11151	13389	12977
rejected events	202960	203565	231698	222953	233974	130048		6%	5%	5%	4%	5%	5%
rejected %	86%	87%	88%	89%	88%	52%	grade 1 events	187	157	195	149	180	402
								0%	0%	0%	0%	0%	0%
							grade 2 events	7142	6343	6868	5571	6674	27078
								3%	2%	2%	2%	2%	10%
							grade 3 events	3029	3082	2793	2813	2885	11425
								1%	1%	1%	1%	1%	4%
							grade 4 events	2892	3113	2911	2756	2912	11546
								1%	1%	1%	1%	1%	4%
							grade 5 events	7920	8593	7312	9166	9385	26687
								3%	3%	2%	3%	3%	10%
							grade 6 events	5105	5594	4737	4602	5483	60852
								2%	2%	1%	1%	2%	24%
							grade 7 events	193752	193731	223192	212697	223348	98270
								82%	83%	85%	85%	84%	39%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	307.844066	307.8747894859594	CCD I2 on	Y	Y
[deg] Pointing Dec	41.211778	41.22668719212595	CCD I3 on	Y	Y
[deg] Pointing Roll	2.375267	2.563700241703658	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	381007754.184000	381006106.97883	CCD S5 on	N	N
Observation start date	2010-01-27T19:28:08	2010-01-27T19:01:46	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	381037754.184000	381039082.2555	On-chip summing requested	N	N
Observation end date	2010-01-28T03:48:08	2010-01-28T04:11:22	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





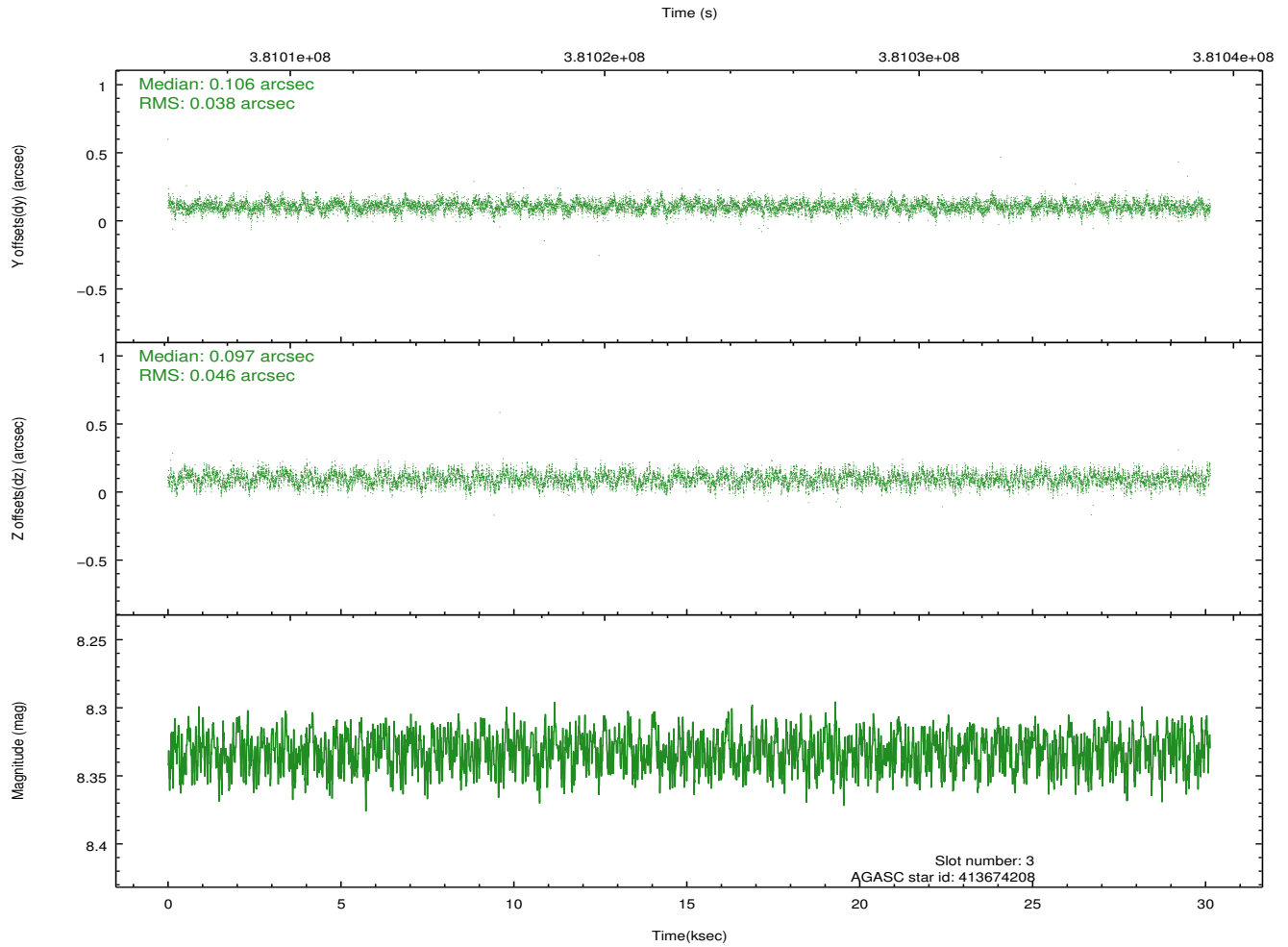
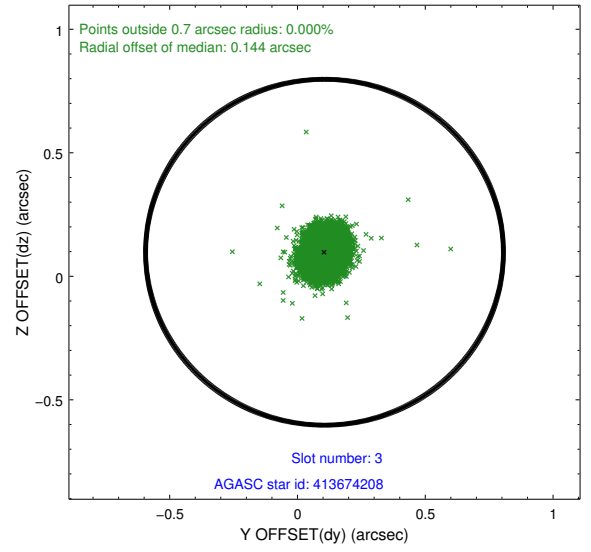
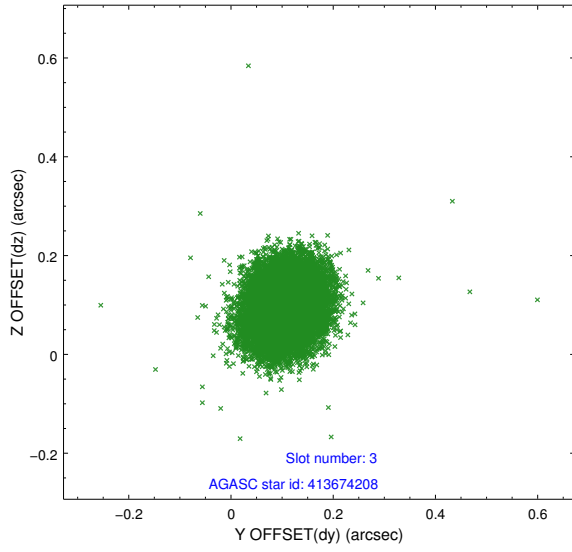
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	7350	0.059	-0.005	0.008	0.014	0.000000	0.000000	925.02	-841.34
1	FID	ACIS-I-5	7.01	7352	-0.213	0.068	0.006	0.011	0.000000	0.000000	-1823.30	1056.22
2	FID	ACIS-I-6	7.02	7351	0.062	0.007	0.008	0.013	0.000000	0.000000	390.52	1700.72
3	GUIDE	413674208	8.33	14697	0.106	0.097	0.064	0.103	307.139504	40.901877	-1960.89	-1027.38
4	GUIDE	413805792	7.35	14699	0.024	-0.115	0.067	0.109	307.778748	40.858024	-230.09	-1264.63
5	GUIDE	414326136	7.35	14698	-0.076	-0.135	0.060	0.095	308.256176	41.473642	1150.20	898.79
6	GUIDE	413677656	8.44	14696	-0.049	0.020	0.080	0.134	307.023952	40.610384	-2328.25	-2059.66
7	GUIDE	413803744	8.84	14690	-0.004	0.137	0.088	0.147	308.586342	40.704904	1949.19	-1898.16

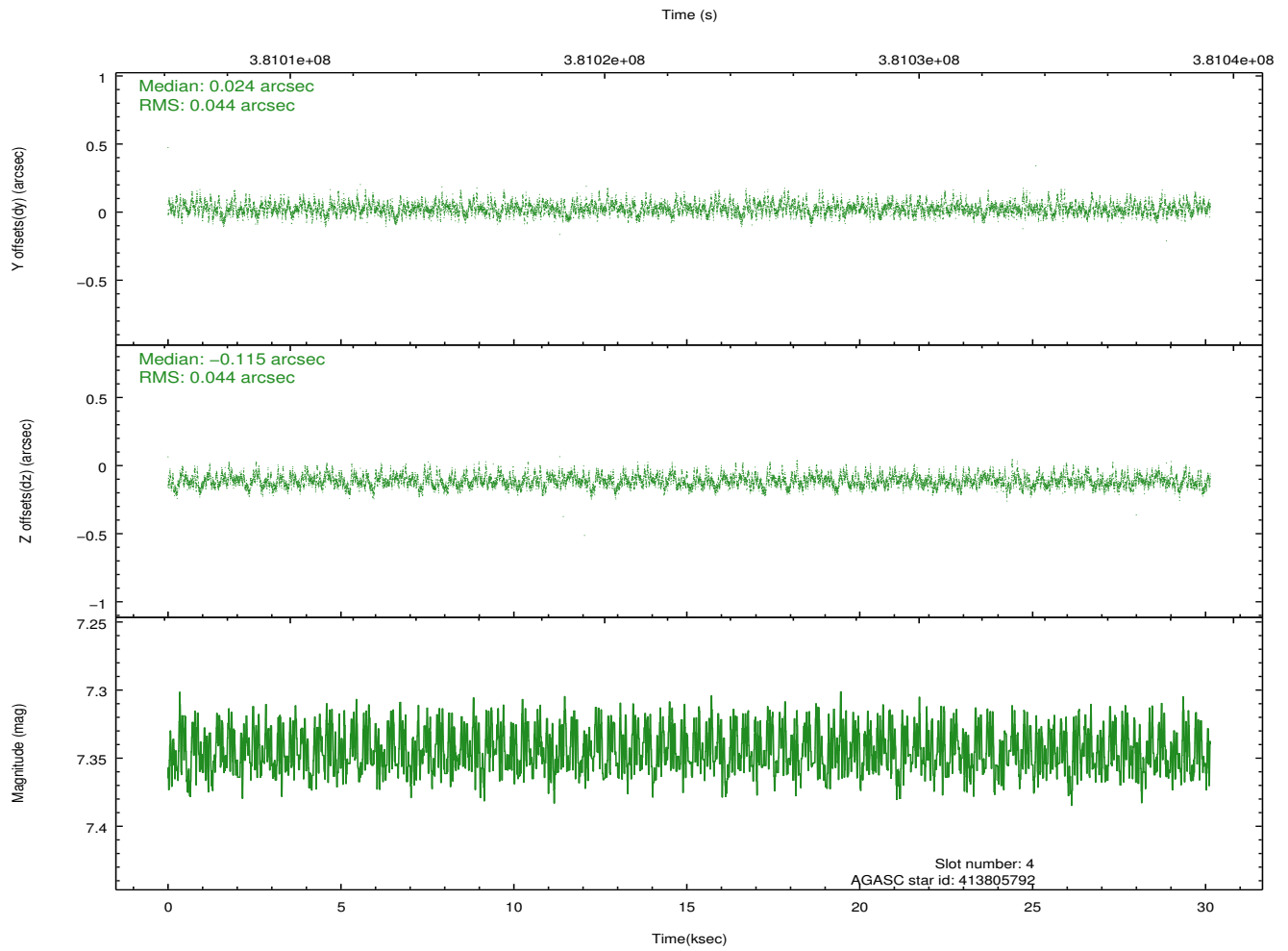
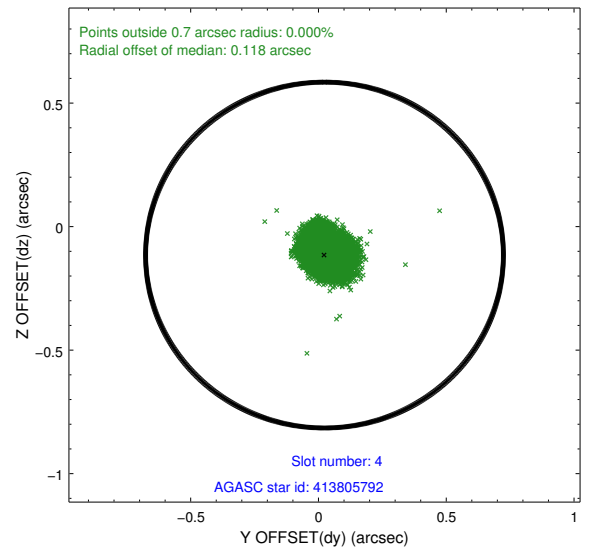
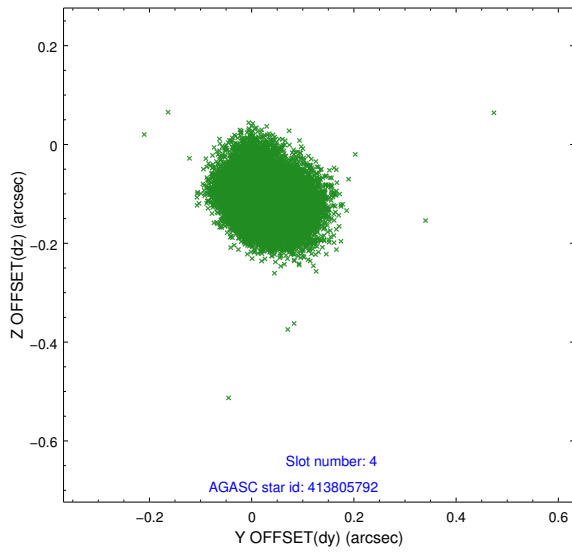
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2.4 Star Slots

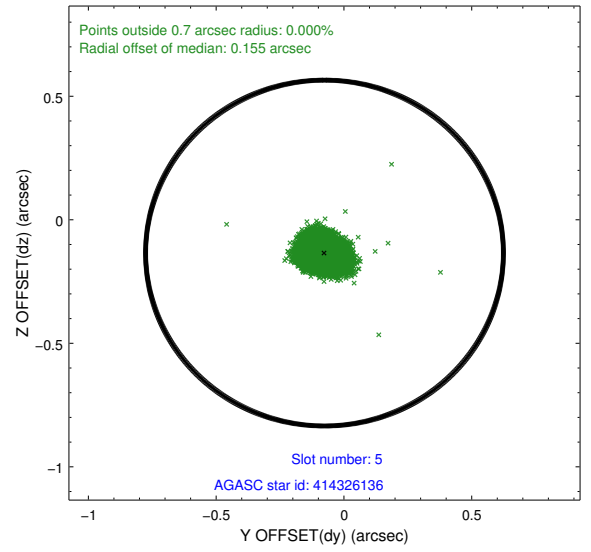
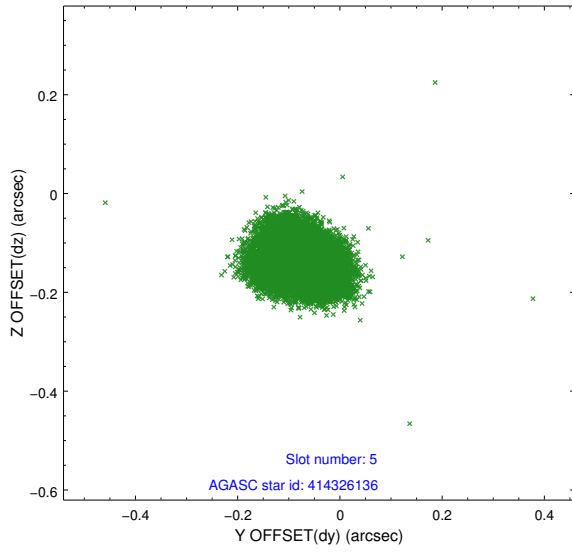
2.4.1 Slot 3



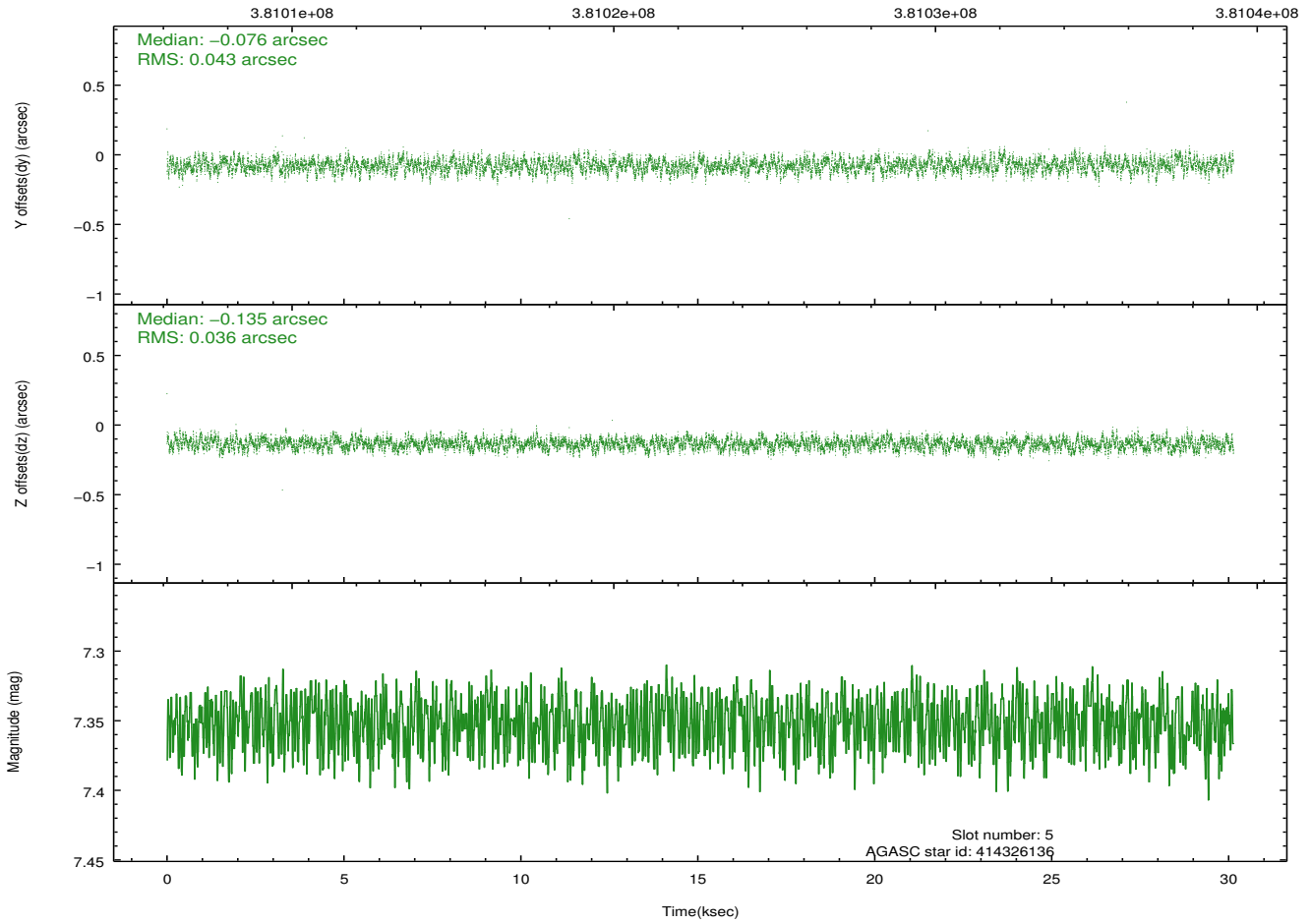
2.4.2 Slot 4



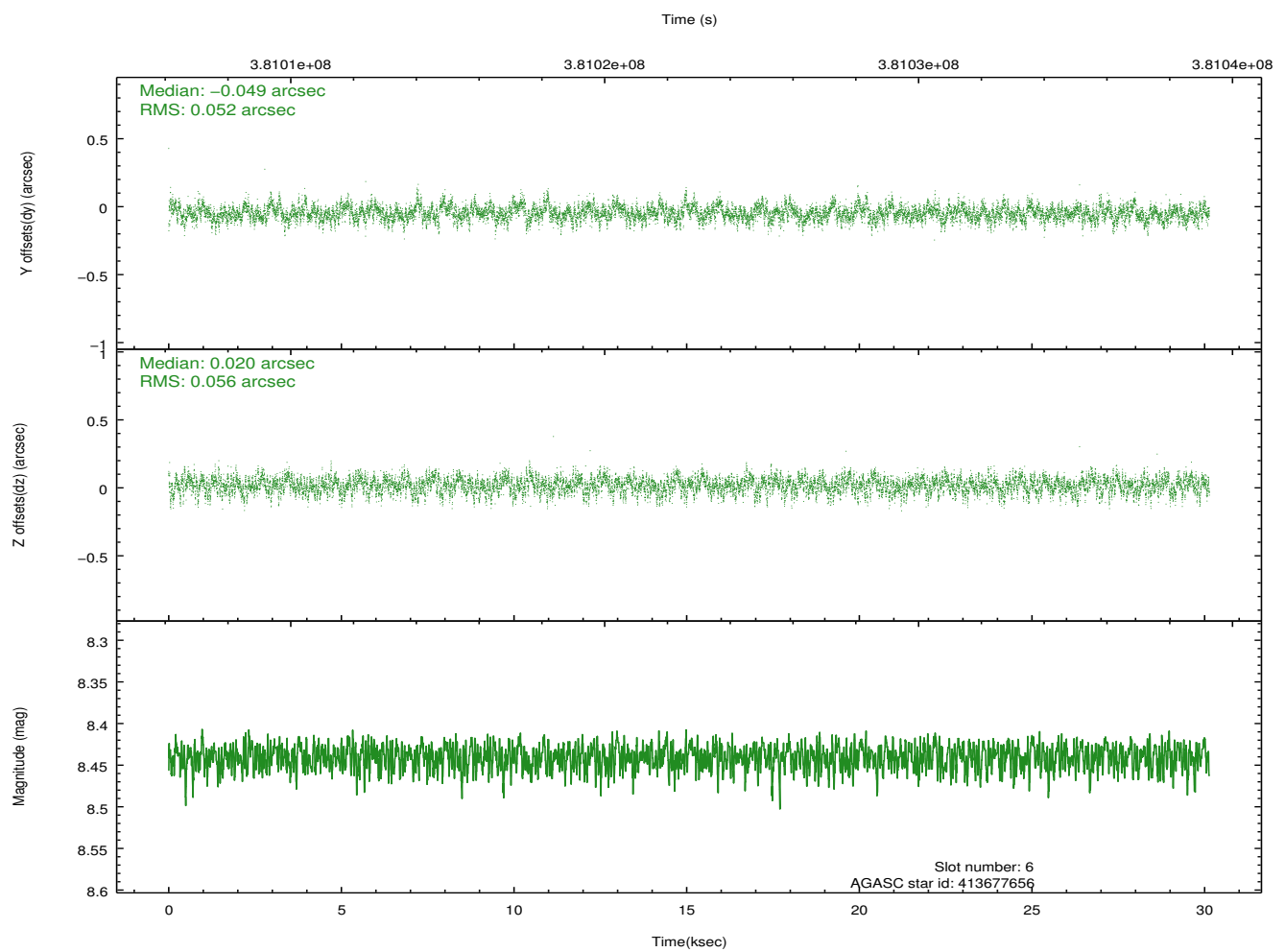
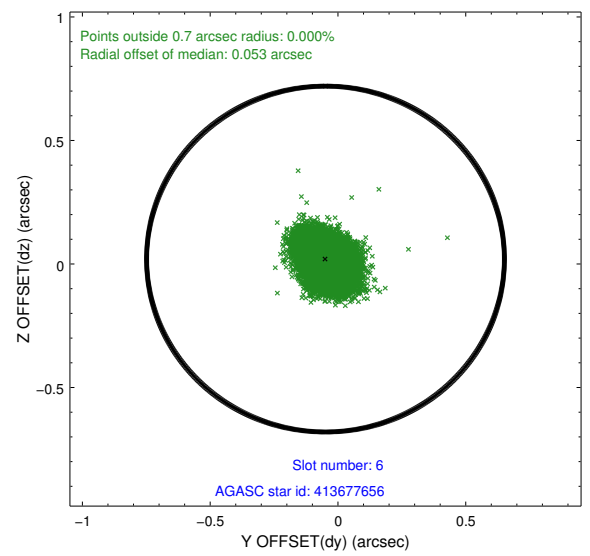
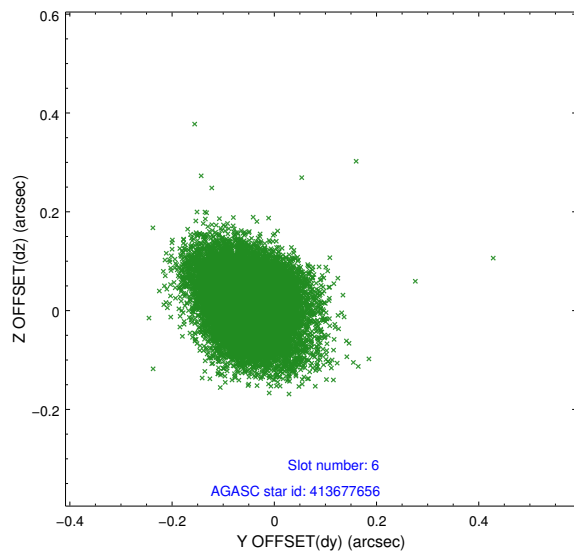
2.4.3 Slot 5



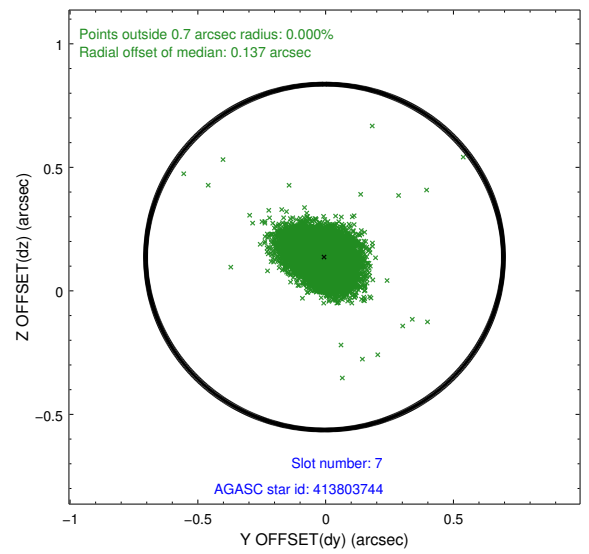
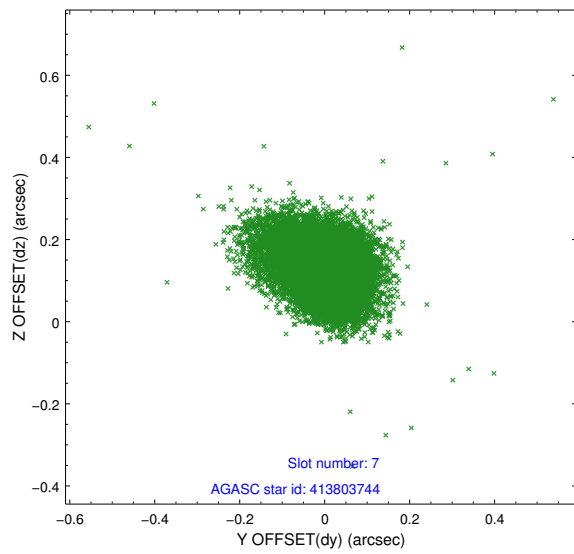
Time (s)



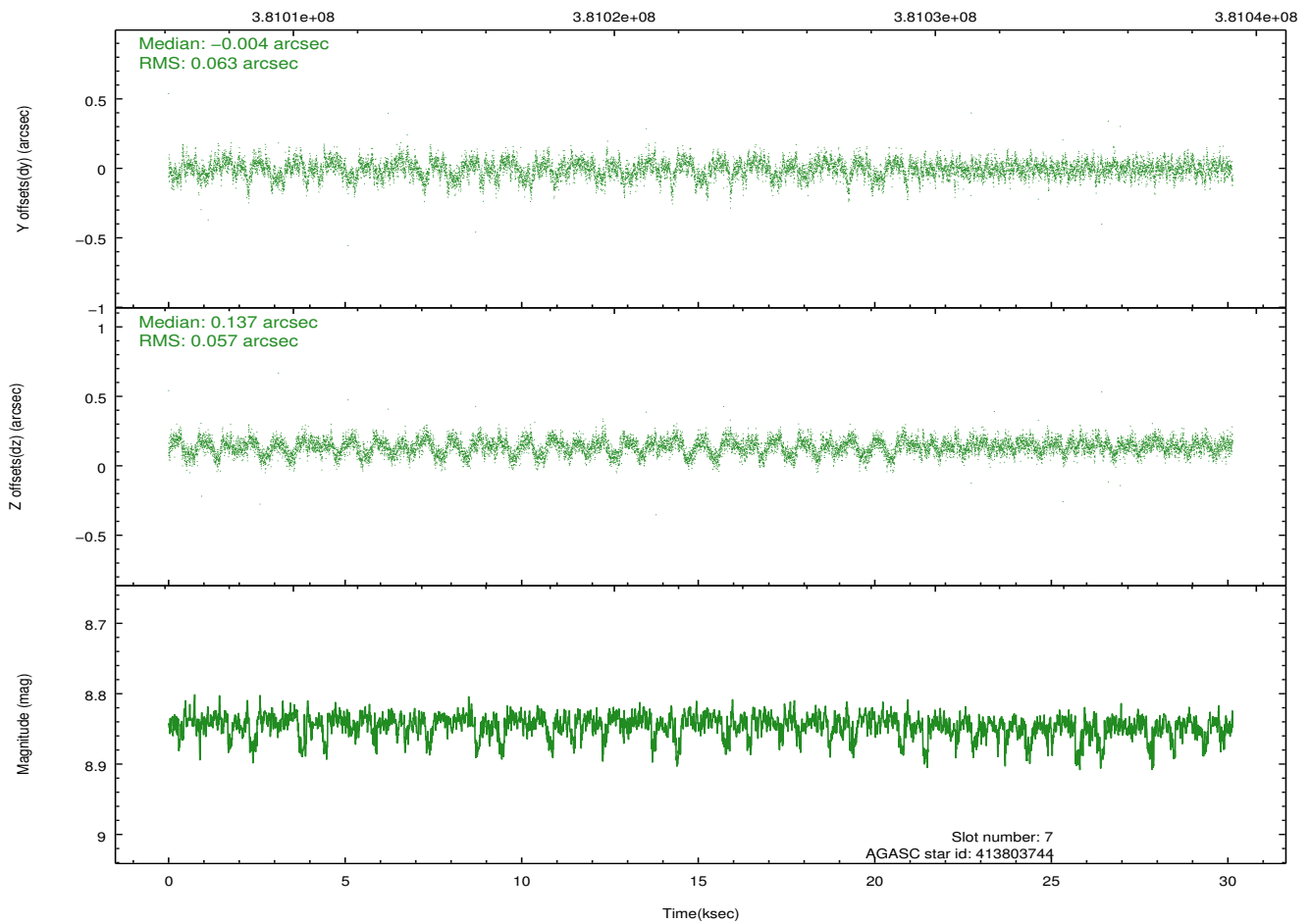
2.4.4 Slot 6



2.4.5 Slot 7

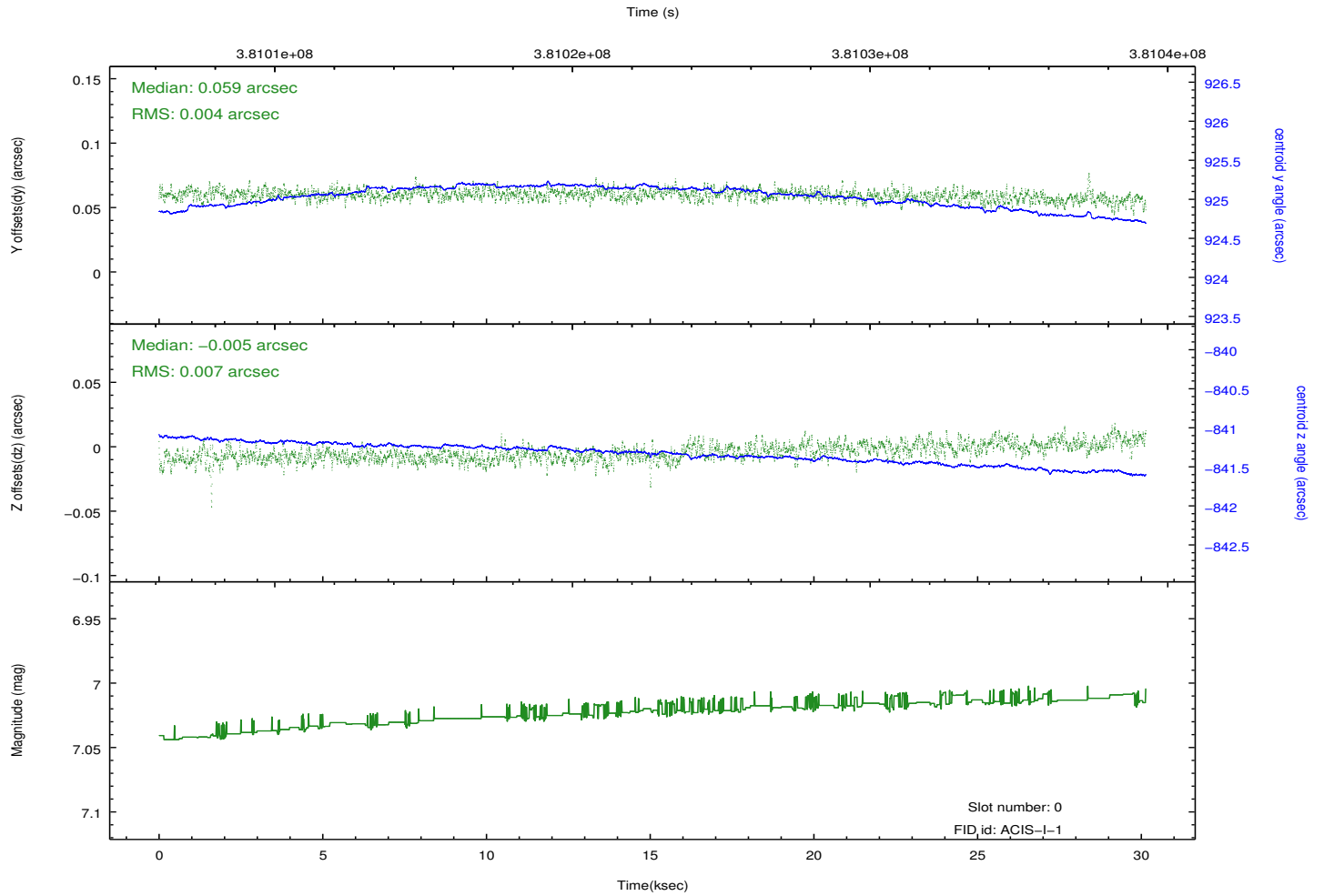
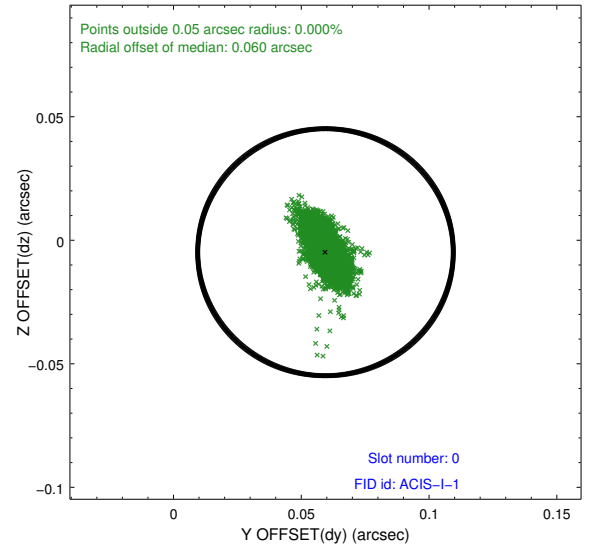
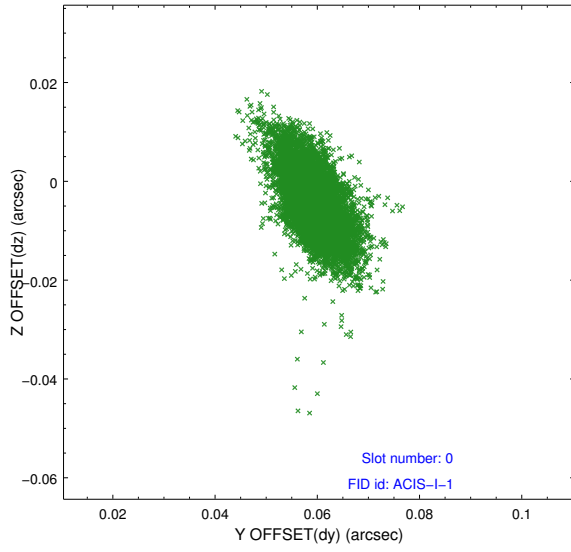


Time (s)

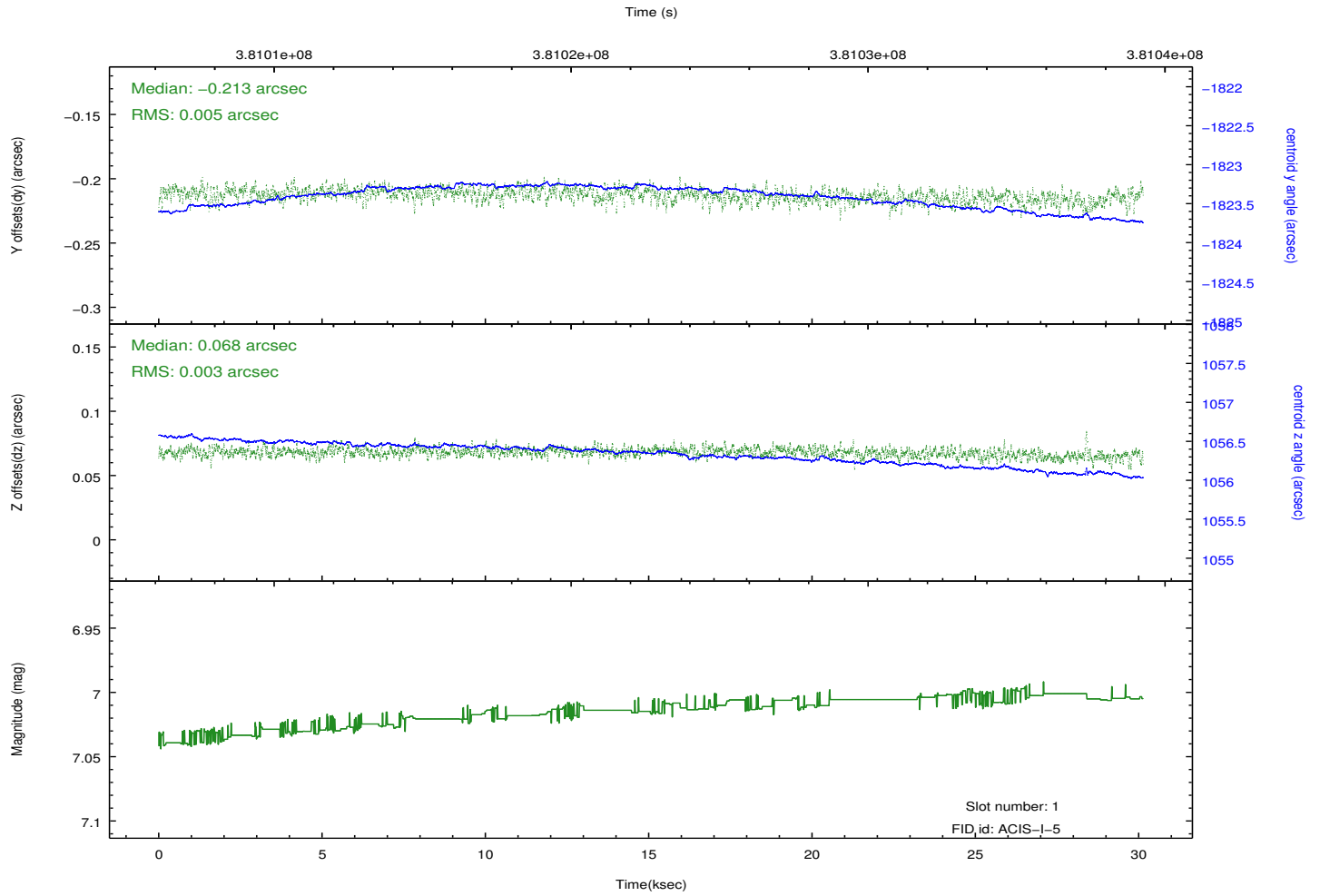
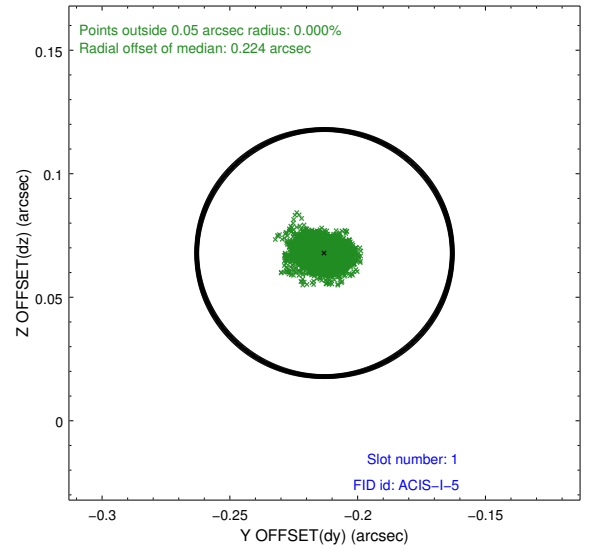
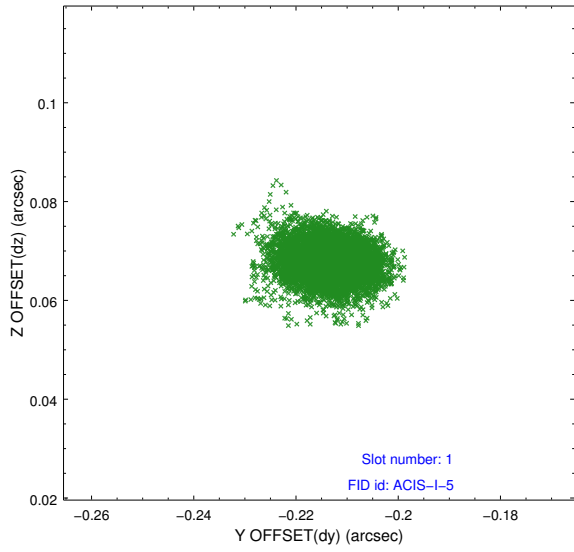


2.5 FID Slots

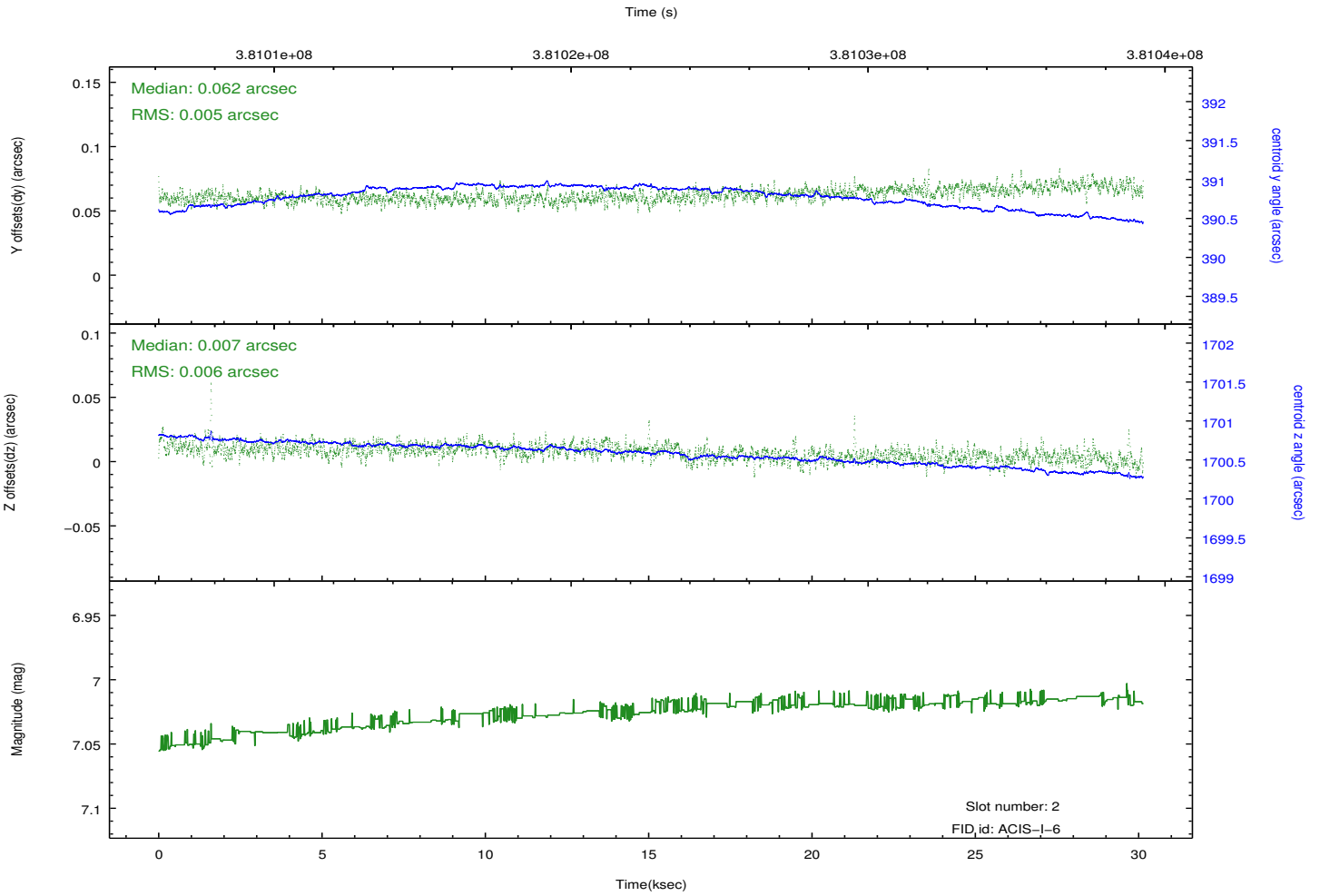
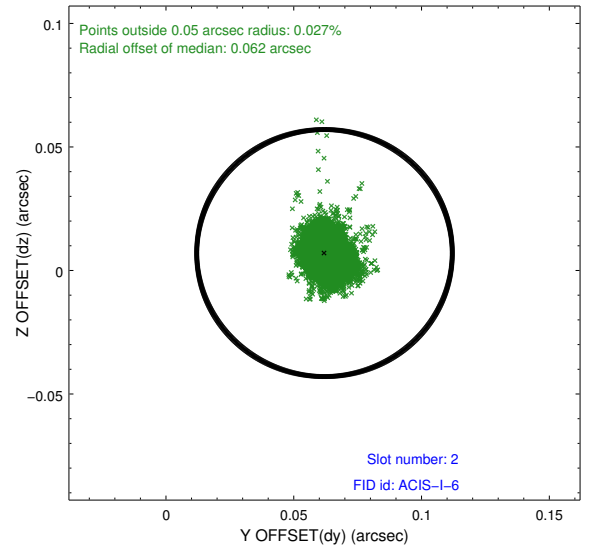
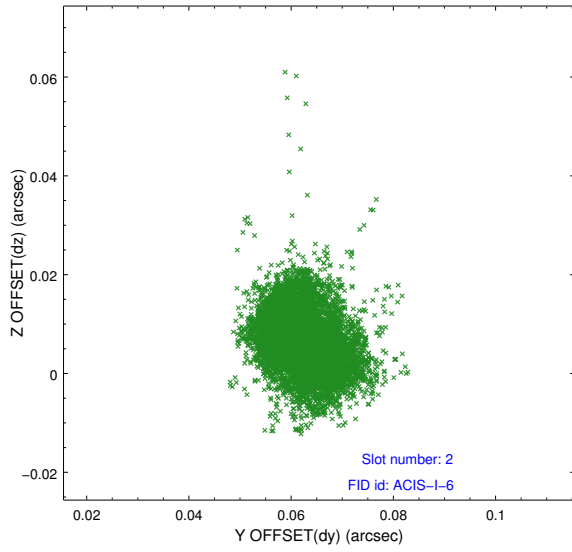
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.127917947054

A.2 Comments