

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12144 - L2 Version 2
Chandra X-Ray Center

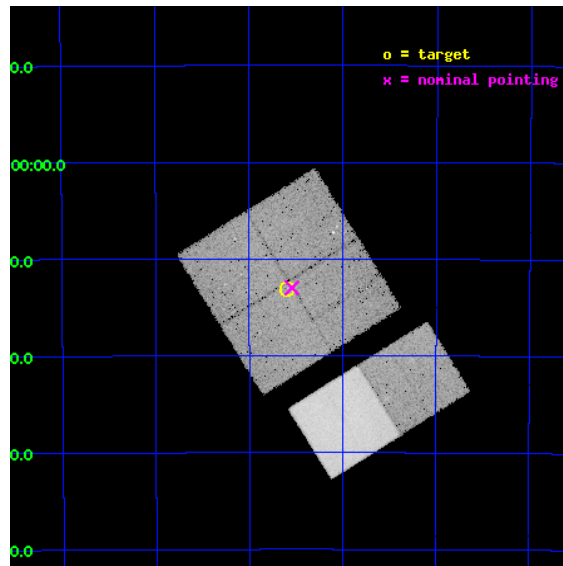
L2 Processing Date : Jul 2 2012

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

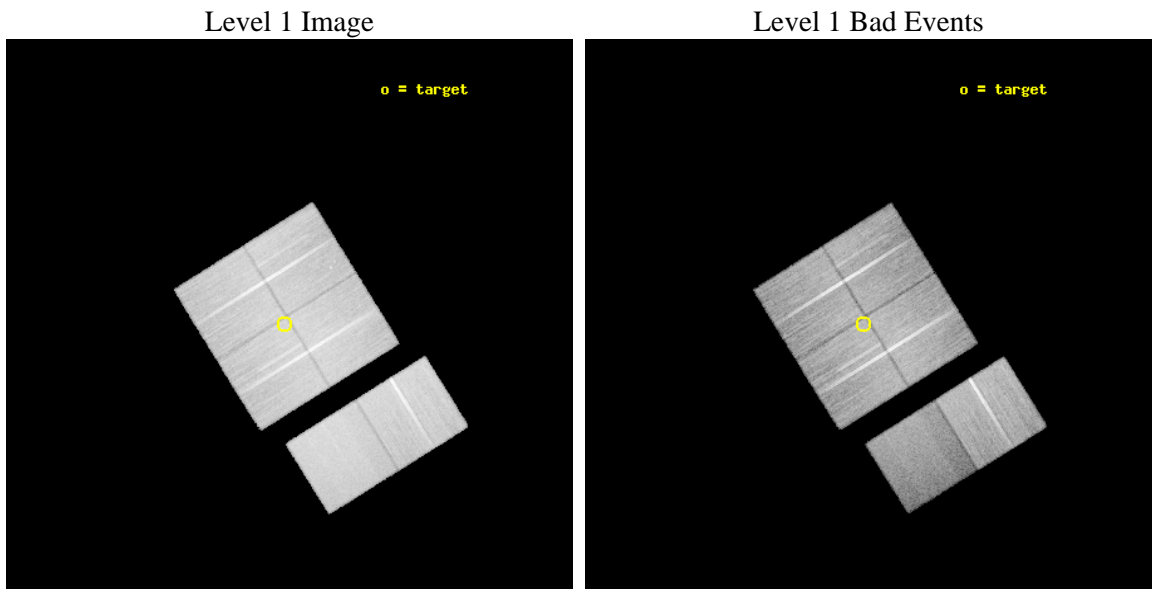
seq_num	501360	Sequence number
obs_id	12144	Observation id
title	X-rays from PSR B0906-49 and its pulsar wind nebula	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	PSR B0906-49	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	137.147917	Observer's specified target RA [deg]
dec_targ	-49.218333	Observer's specified target Dec [deg]
ra_nom	137.1359407555	Nominal RA [deg]
dec_nom	-49.21630217915	Nominal Dec [deg]
roll_nom	148.1094316607	Nominal Roll [deg]
revision	2	Processing version of data
ontime	35049.59986949	Sum of GTIs [s]
livetime	34605.780731607	Livetime [s]
ontime0	35049.59986949	Sum of GTIs [s]
ontime1	35046.358899176	Sum of GTIs [s]
ontime2	35046.358899117	Sum of GTIs [s]
ontime3	35049.59986949	Sum of GTIs [s]
ontime6	35043.117889047	Sum of GTIs [s]
ontime7	35049.59986949	Sum of GTIs [s]
l2events	229945	Number of level 2 events



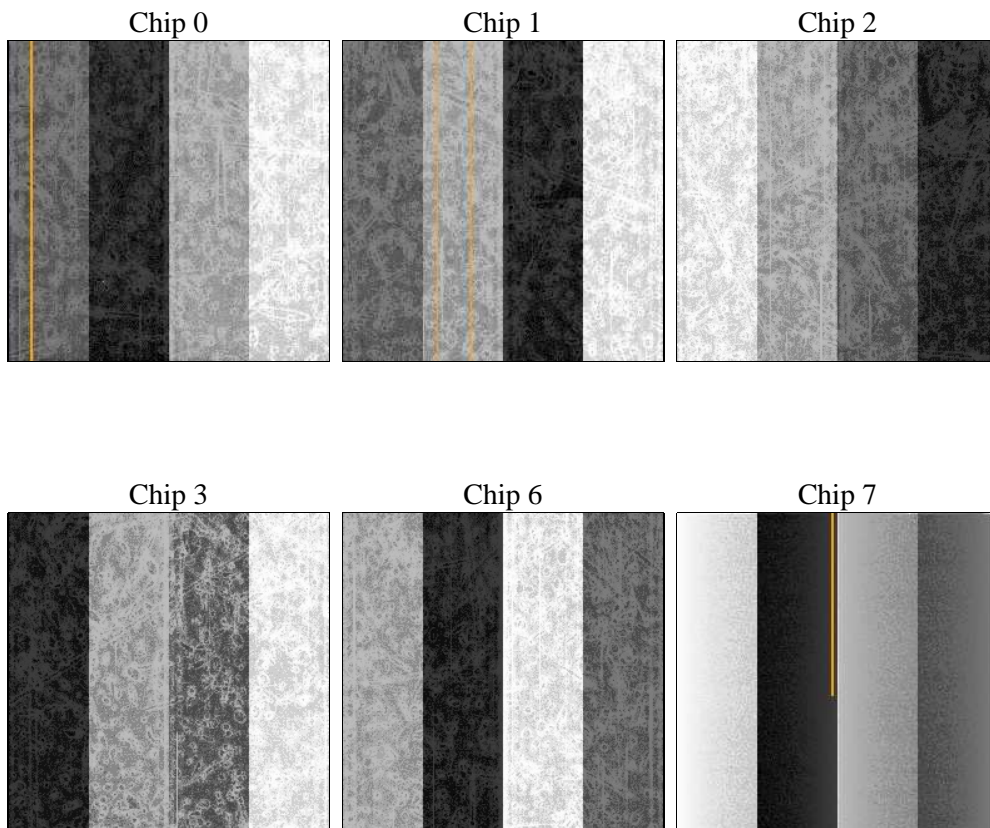
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	35000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	35049.59986949	Sum of GTIs [s]
caldbver	4.5.0	 	ontime0	35049.59986949	Sum of GTIs [s]
date	2012-07-02T19:16:39	Date and time of file creation	ontime1	35046.358899176	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	35046.358899117	Sum of GTIs [s]
			ontime3	35049.59986949	Sum of GTIs [s]
			ontime6	35043.117889047	Sum of GTIs [s]
			ontime7	35049.59986949	Sum of GTIs [s]
			l1events	1466906	Number of level 1 events

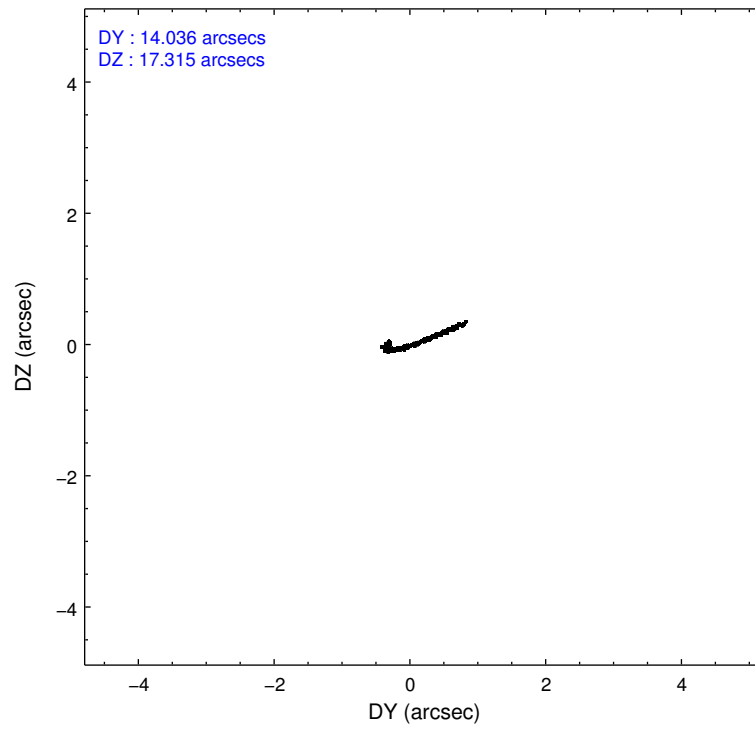
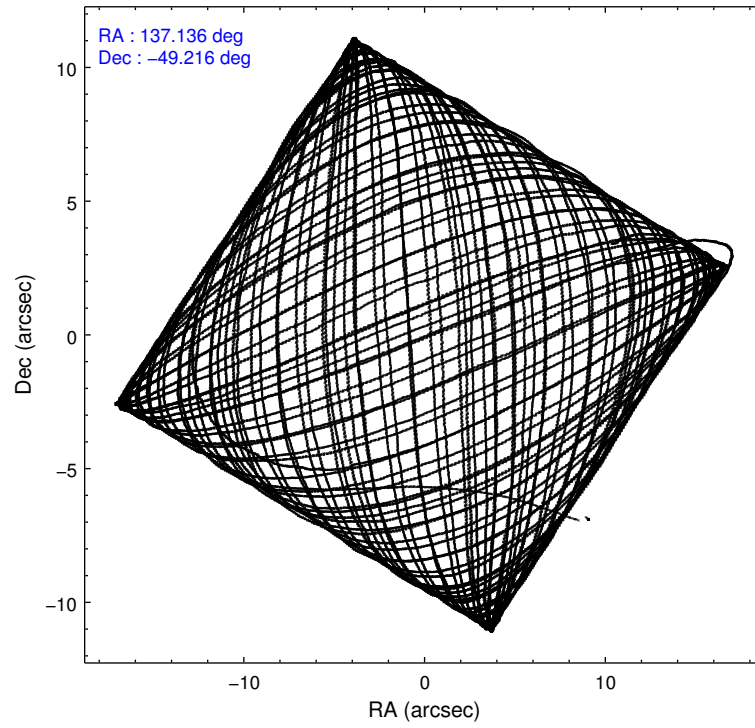
2.1.4 Events

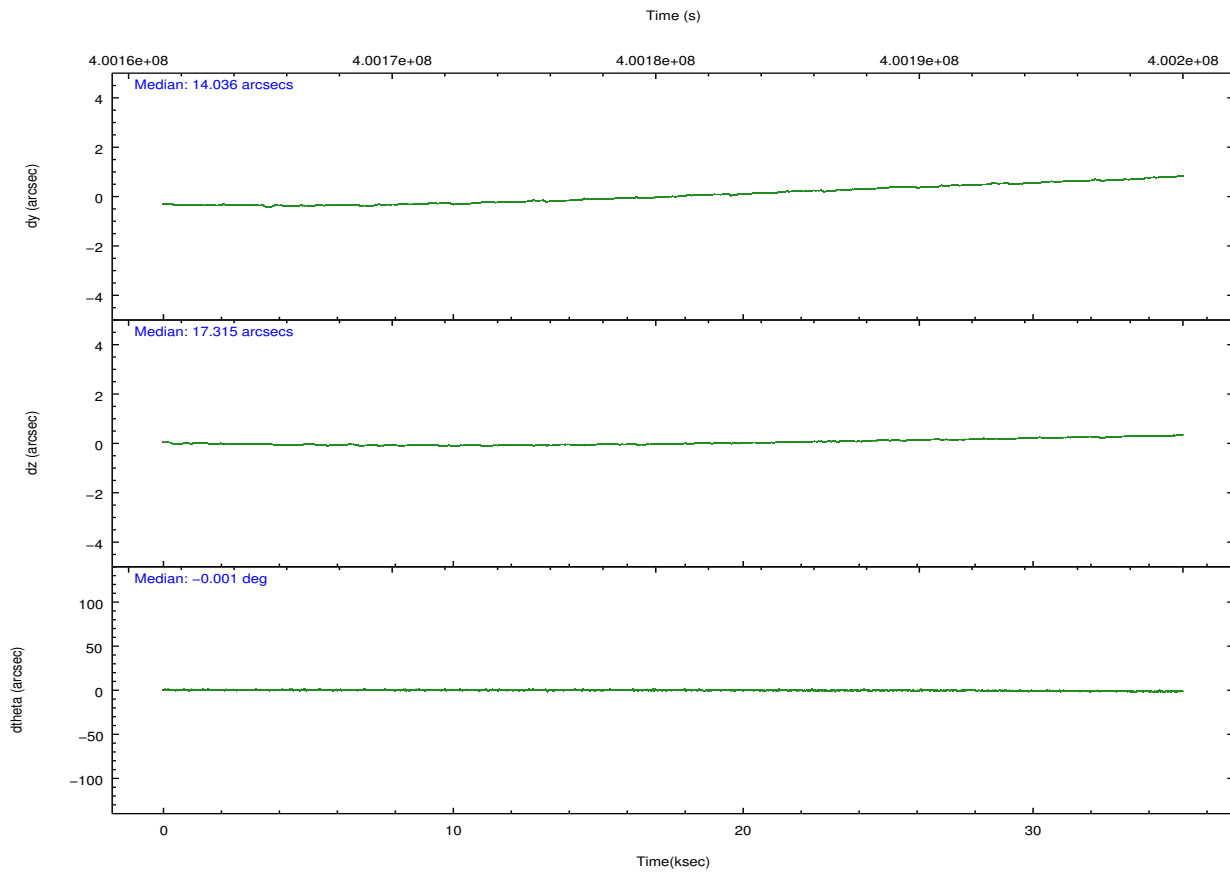
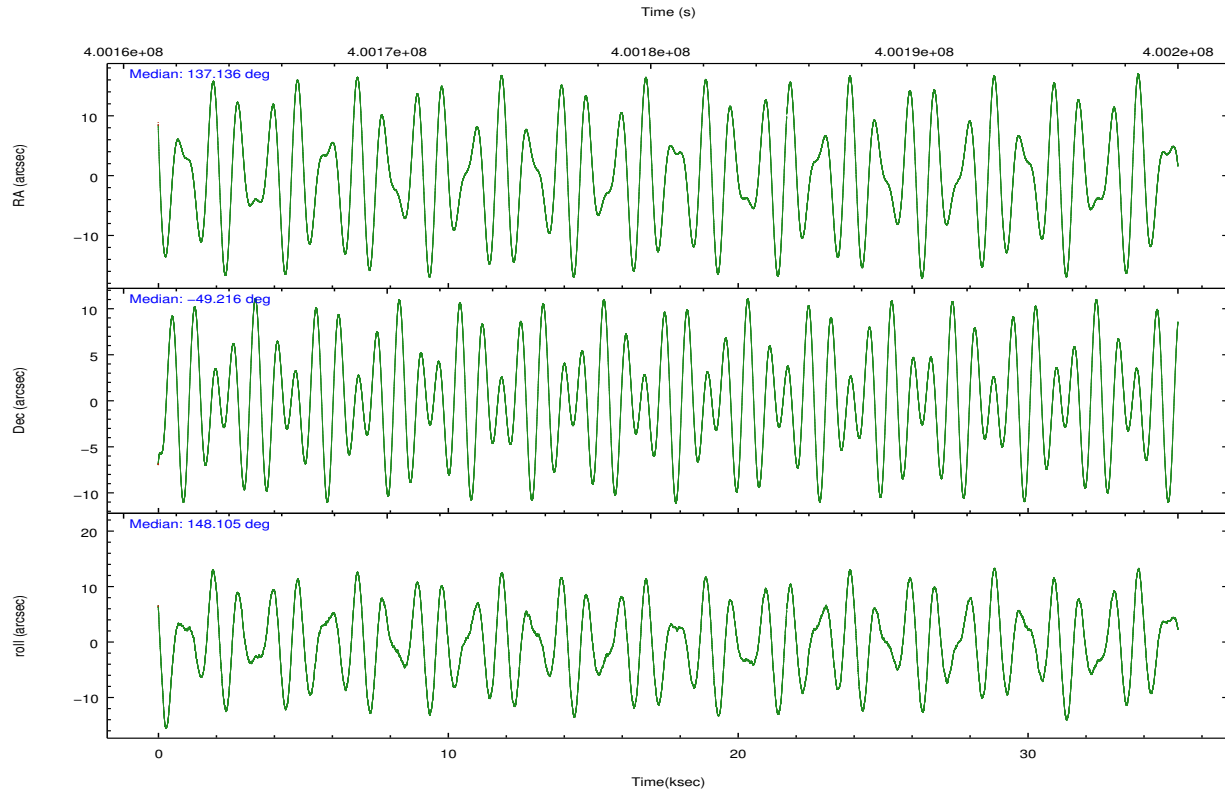
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	225013	227493	255097	245818	258275	255210	grade 0 events	10087	9620	10128	9033	10384	12724
rejected events	198180	200262	229028	221342	230294	129915		4%	4%	3%	3%	4%	4%
rejected %	88%	88%	89%	90%	89%	50%	grade 1 events	161	138	146	164	119	394
								0%	0%	0%	0%	0%	0%
							grade 2 events	6591	6159	6309	5473	6394	27184
								2%	2%	2%	2%	2%	10%
							grade 3 events	2693	3069	2516	2640	2870	11672
								1%	1%	0%	1%	1%	4%
							grade 4 events	2642	2886	2688	2651	2776	11345
								1%	1%	1%	1%	1%	4%
							grade 5 events	8024	8763	7502	9518	9746	27403
								3%	3%	2%	3%	3%	10%
							grade 6 events	4822	5503	4429	4680	5559	62379
								2%	2%	1%	1%	2%	24%
							grade 7 events	189993	191355	221379	211659	220427	102109
								84%	84%	86%	86%	85%	40%

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	137.178016	137.1359407555026	CCD I2 on	Y	Y
[deg] Pointing Dec	-49.217088	-49.21630217915005	CCD I3 on	Y	Y
[deg] Pointing Roll	147.932606	148.1094316607046	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)	400163243.184000	400161667.21699	CCD S5 on	N	N
Observation start date	2010-09-06T12:26:17	2010-09-06T12:01:07	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	400198243.184000	400199061.78141	On-chip summing requested	N	N
Observation end date	2010-09-06T22:09:37	2010-09-06T22:24:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



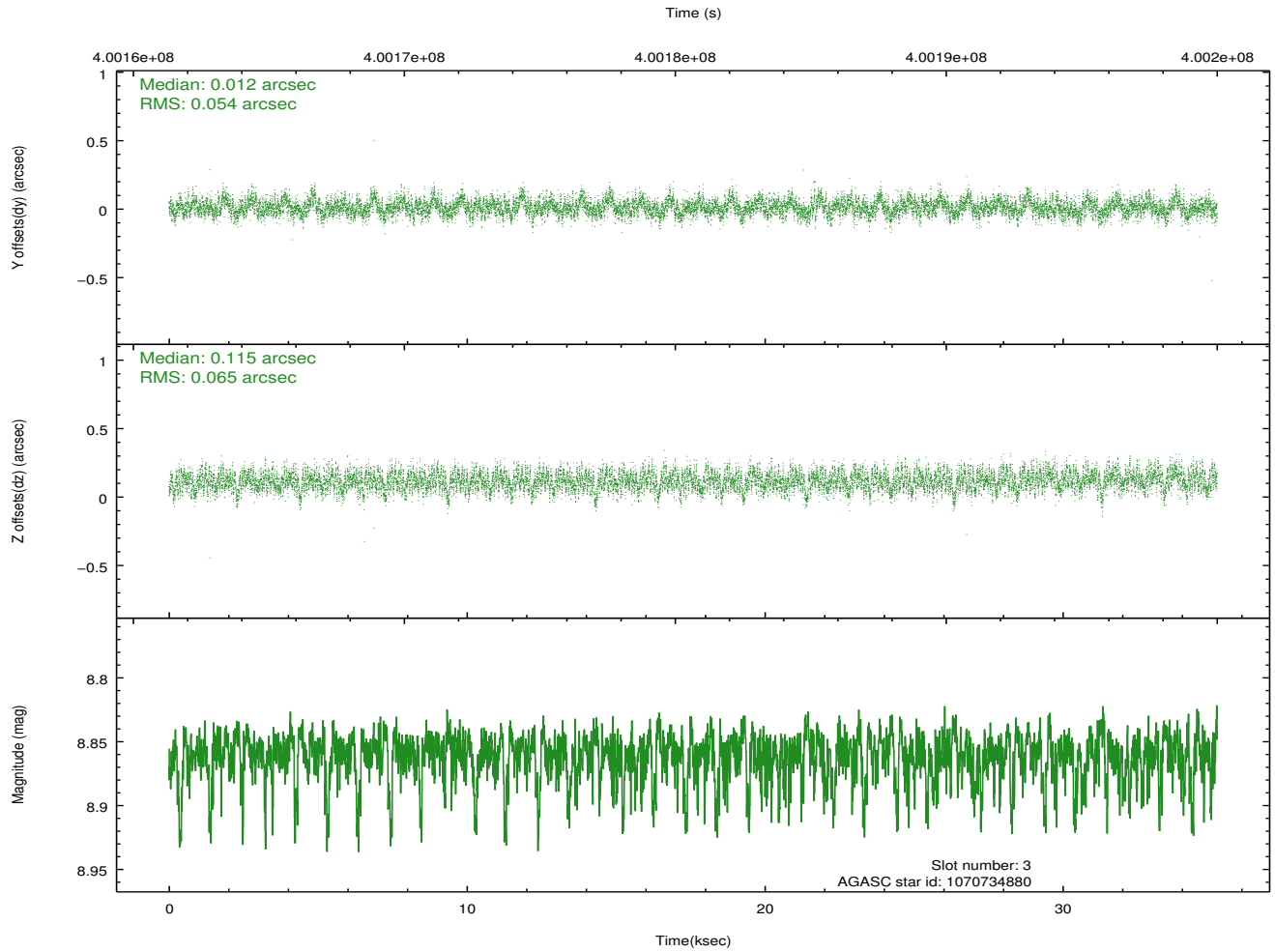
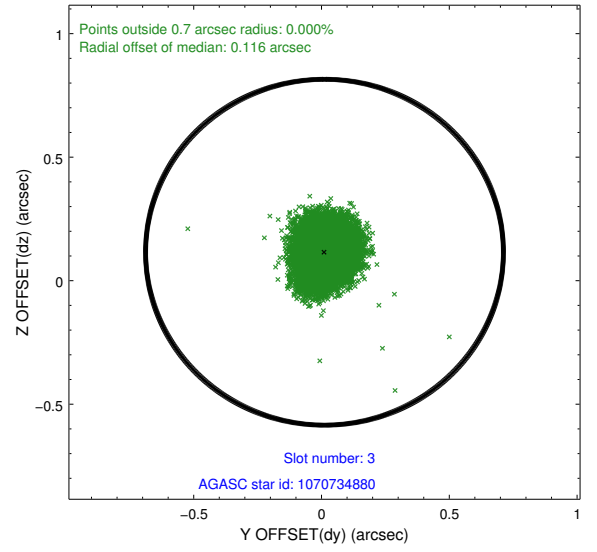
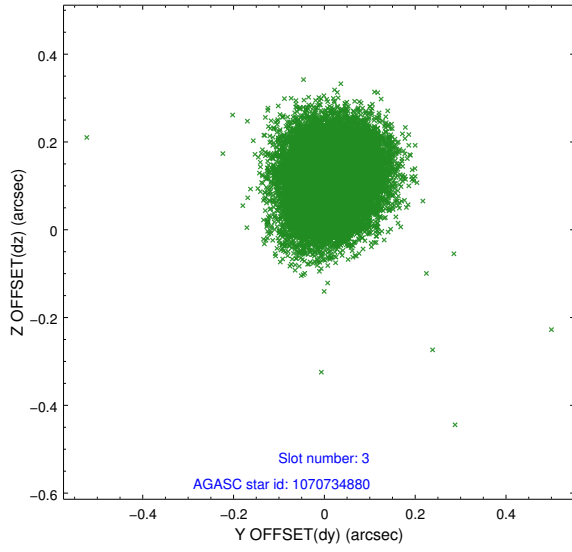


Slot Statistics

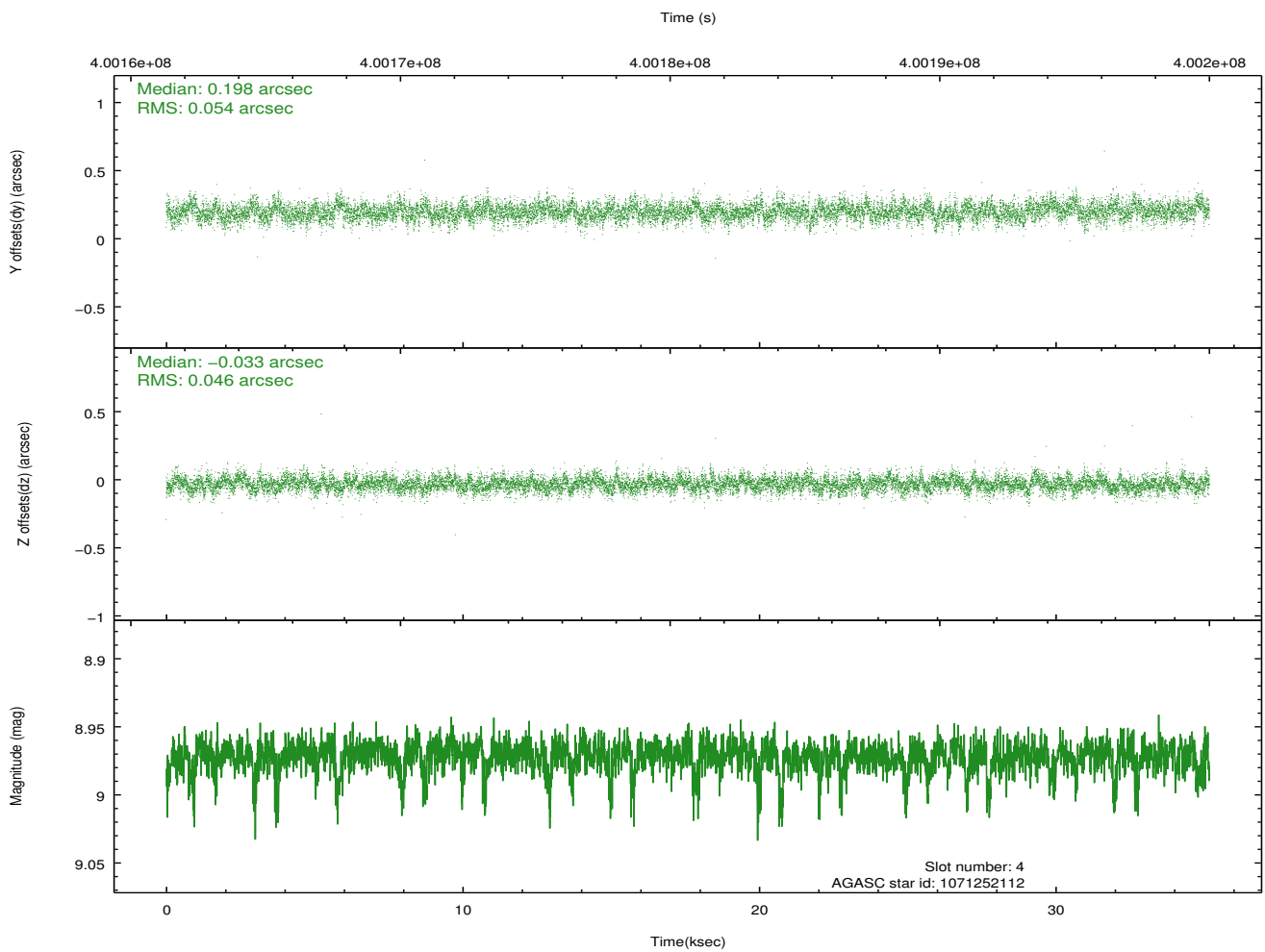
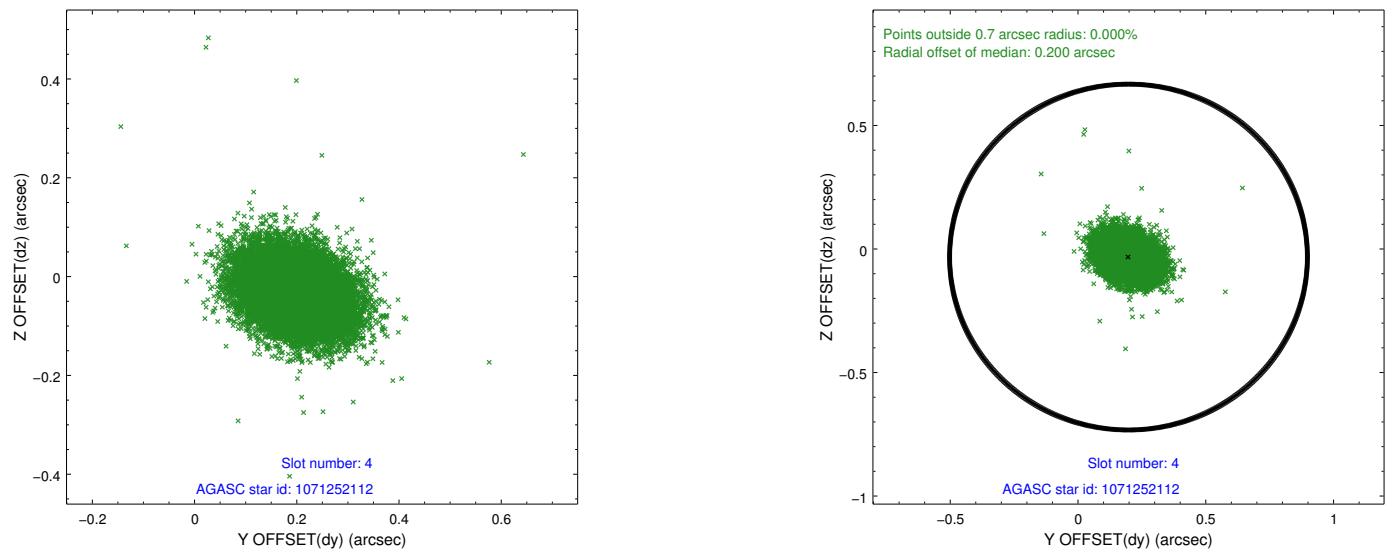
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	8580	0.071	-0.023	0.010	0.033	0.000000	0.000000	925.43	-841.06
1	FID	ACIS-I-5	7.00	8580	-0.218	0.074	0.008	0.016	0.000000	0.000000	-1822.92	1056.55
2	FID	ACIS-I-6	7.00	8580	0.057	0.018	0.010	0.021	0.000000	0.000000	390.96	1701.00
3	GUIDE	1070734880	8.86	17149	0.012	0.115	0.089	0.144	137.418049	-48.579580	733.98	-2247.15
4	GUIDE	1071252112	8.97	17155	0.198	-0.033	0.074	0.125	137.781380	-49.725458	-2164.14	810.16
5	GUIDE	1071254736	7.40	17161	-0.075	-0.171	0.060	0.096	136.492241	-49.234285	1329.37	914.78
6	GUIDE	1071257928	6.86	17161	-0.208	0.011	0.084	0.159	137.437493	-49.424389	-911.56	311.02
7	GUIDE	1071394104	7.89	17157	0.060	0.079	0.059	0.097	137.929319	-48.773182	-666.00	-2292.75

2.4 Star Slots

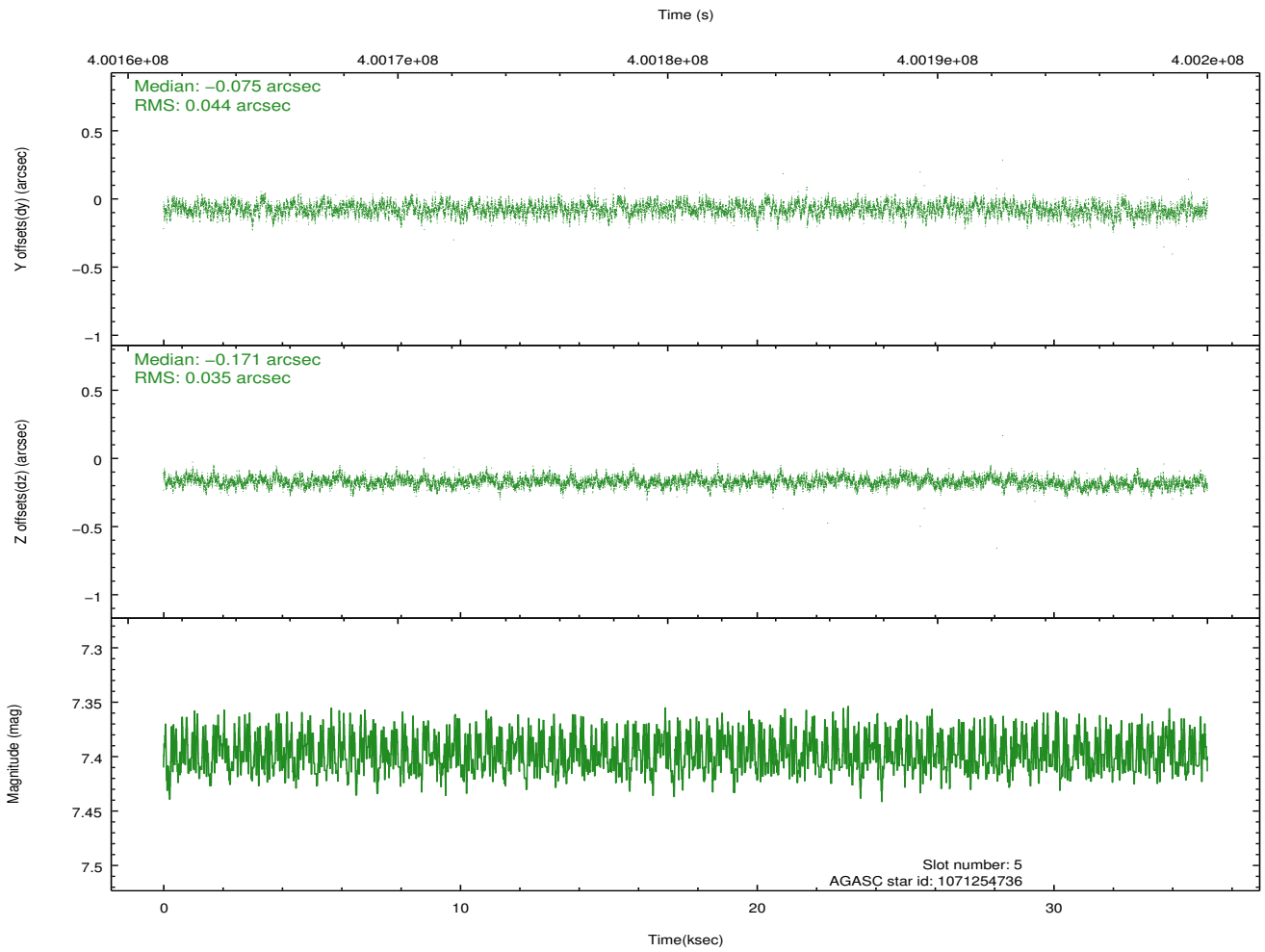
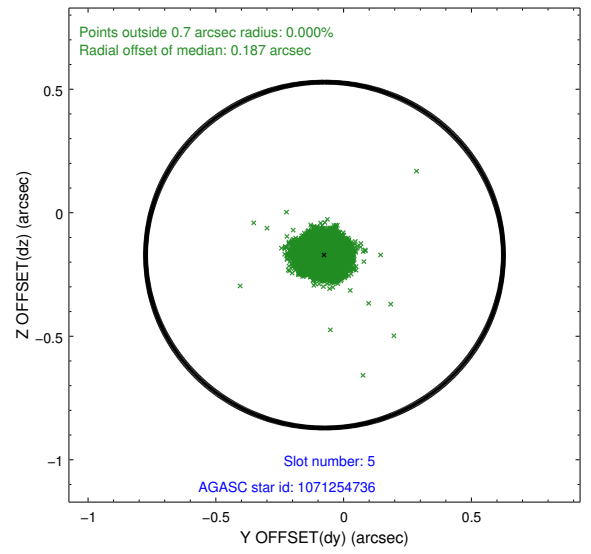
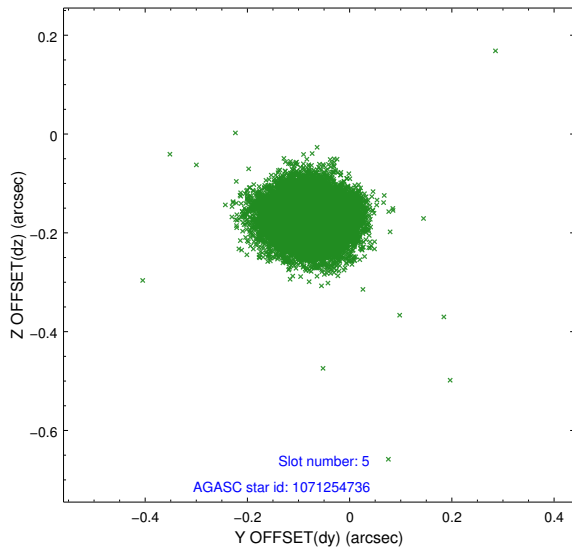
2.4.1 Slot 3



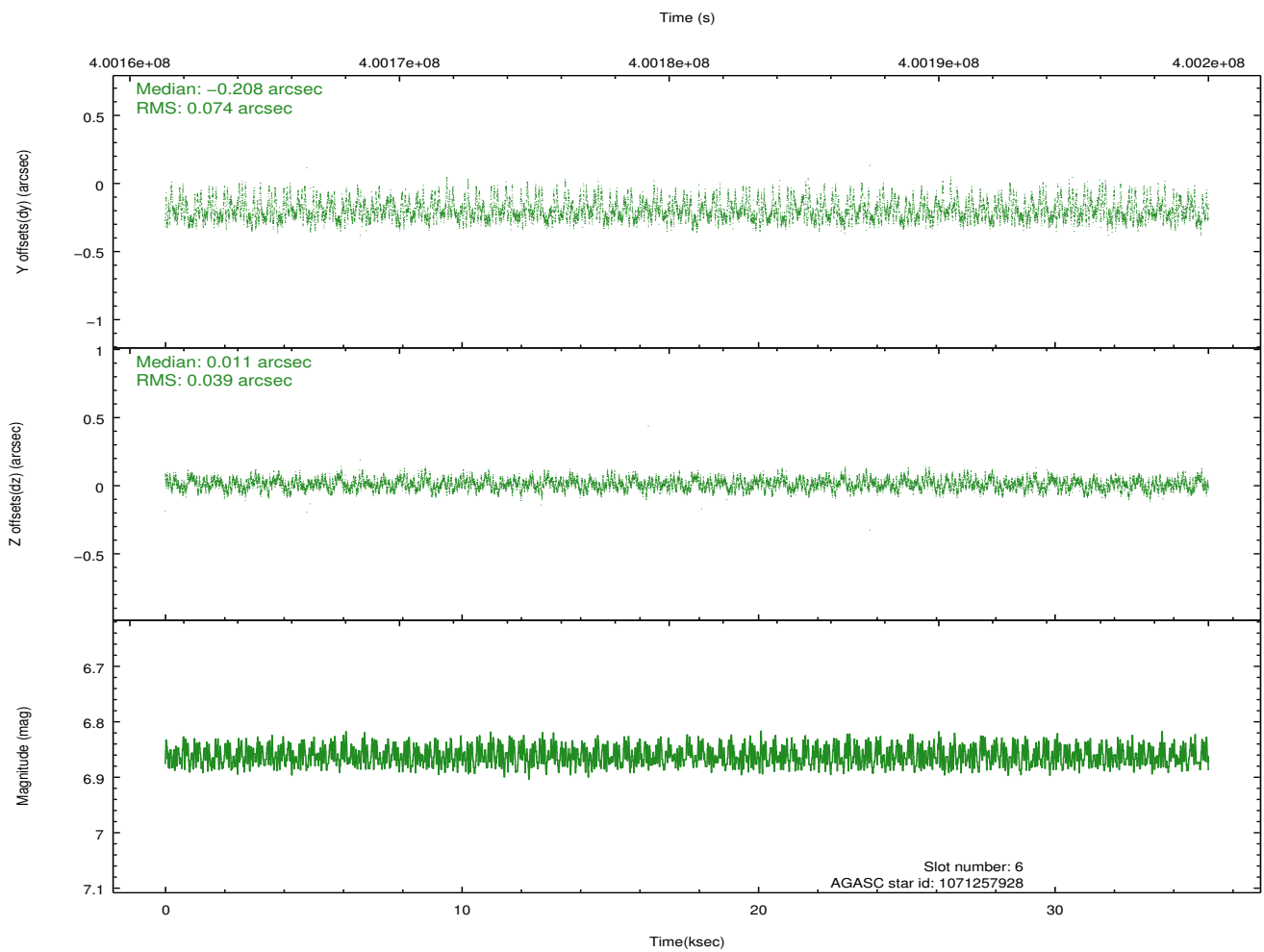
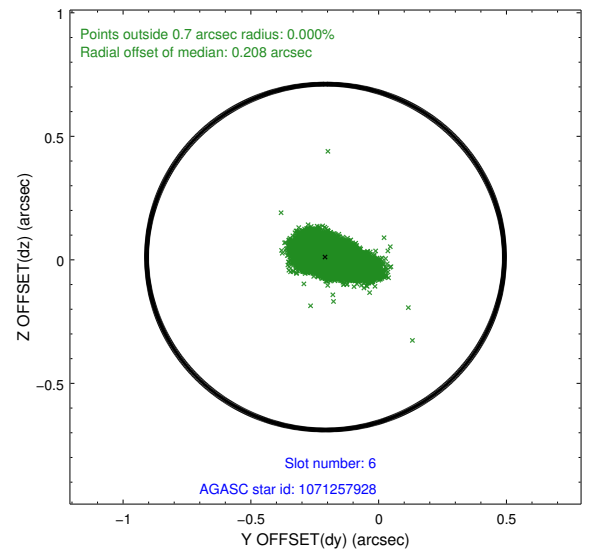
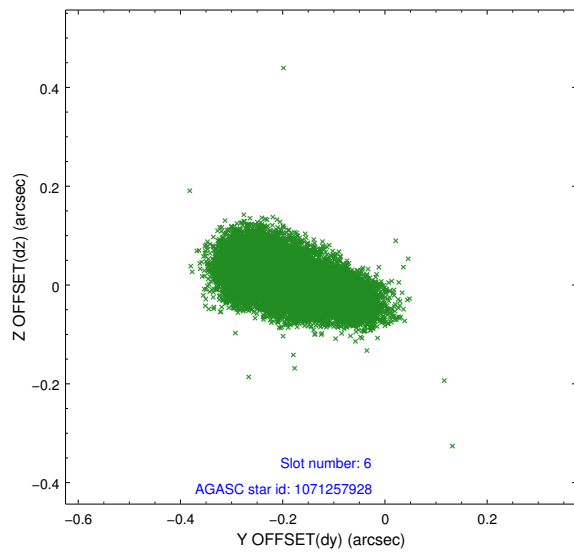
2.4.2 Slot 4



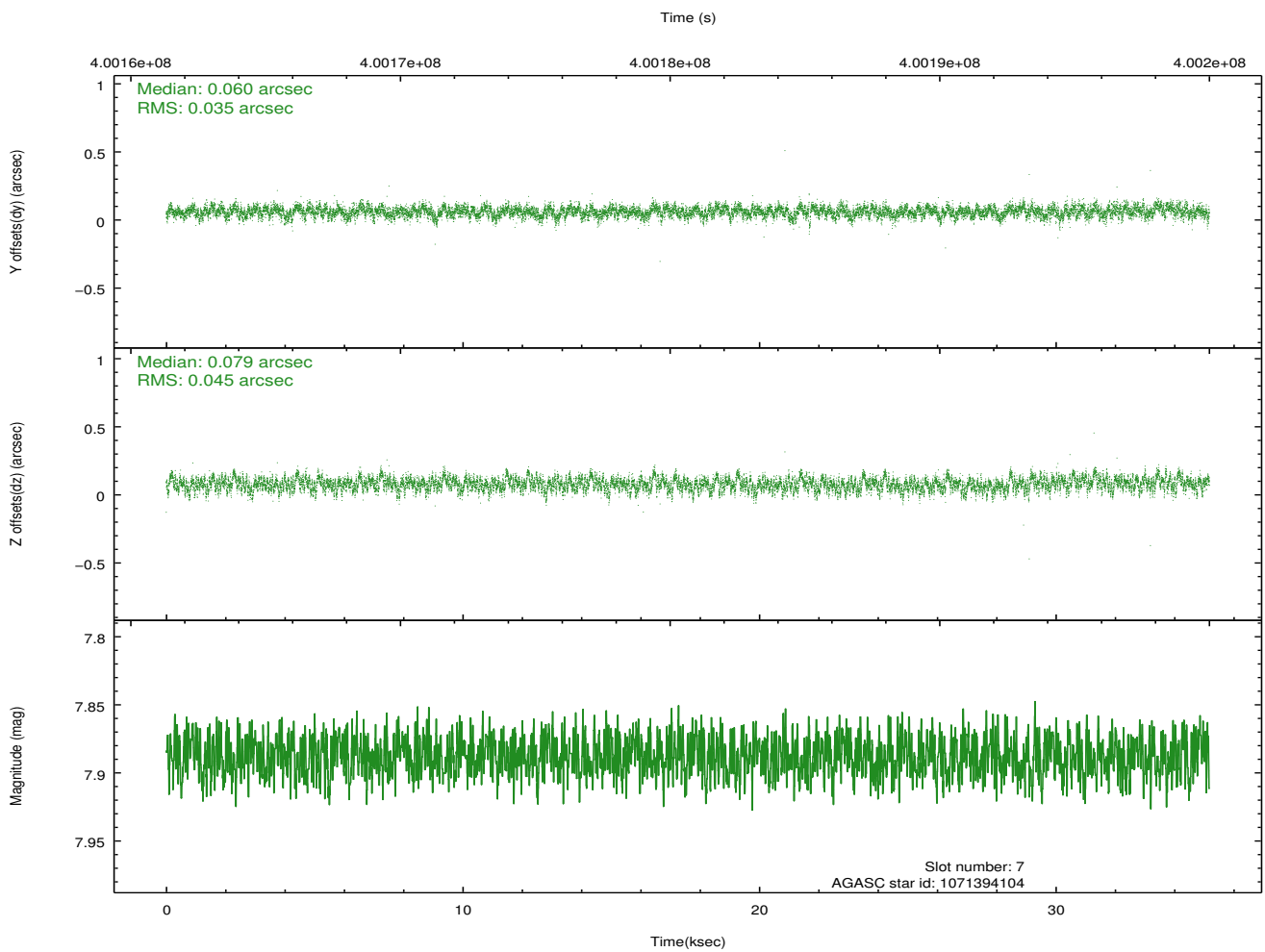
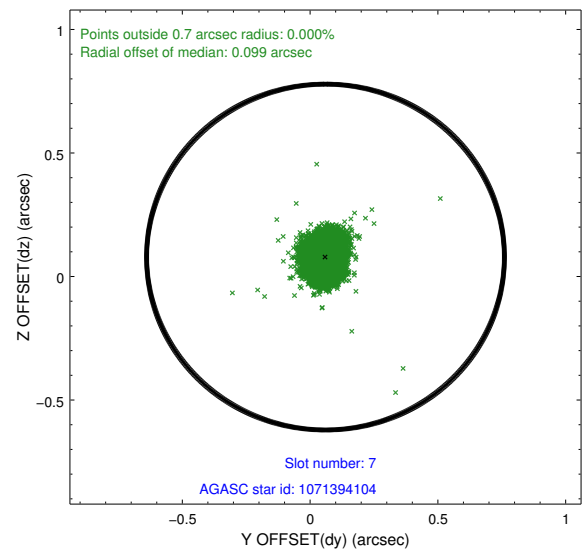
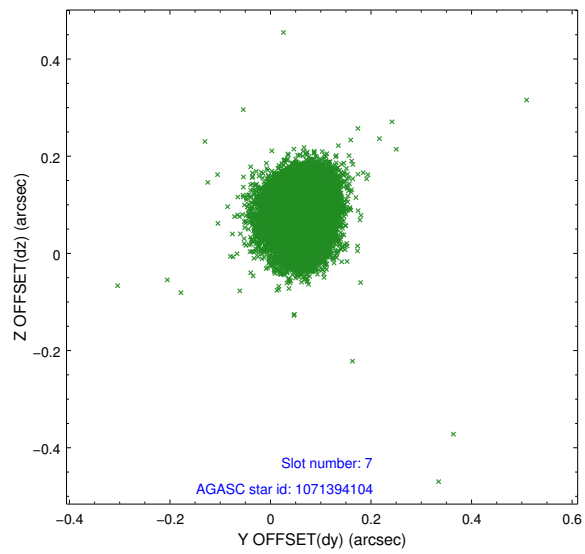
2.4.3 Slot 5



2.4.4 Slot 6

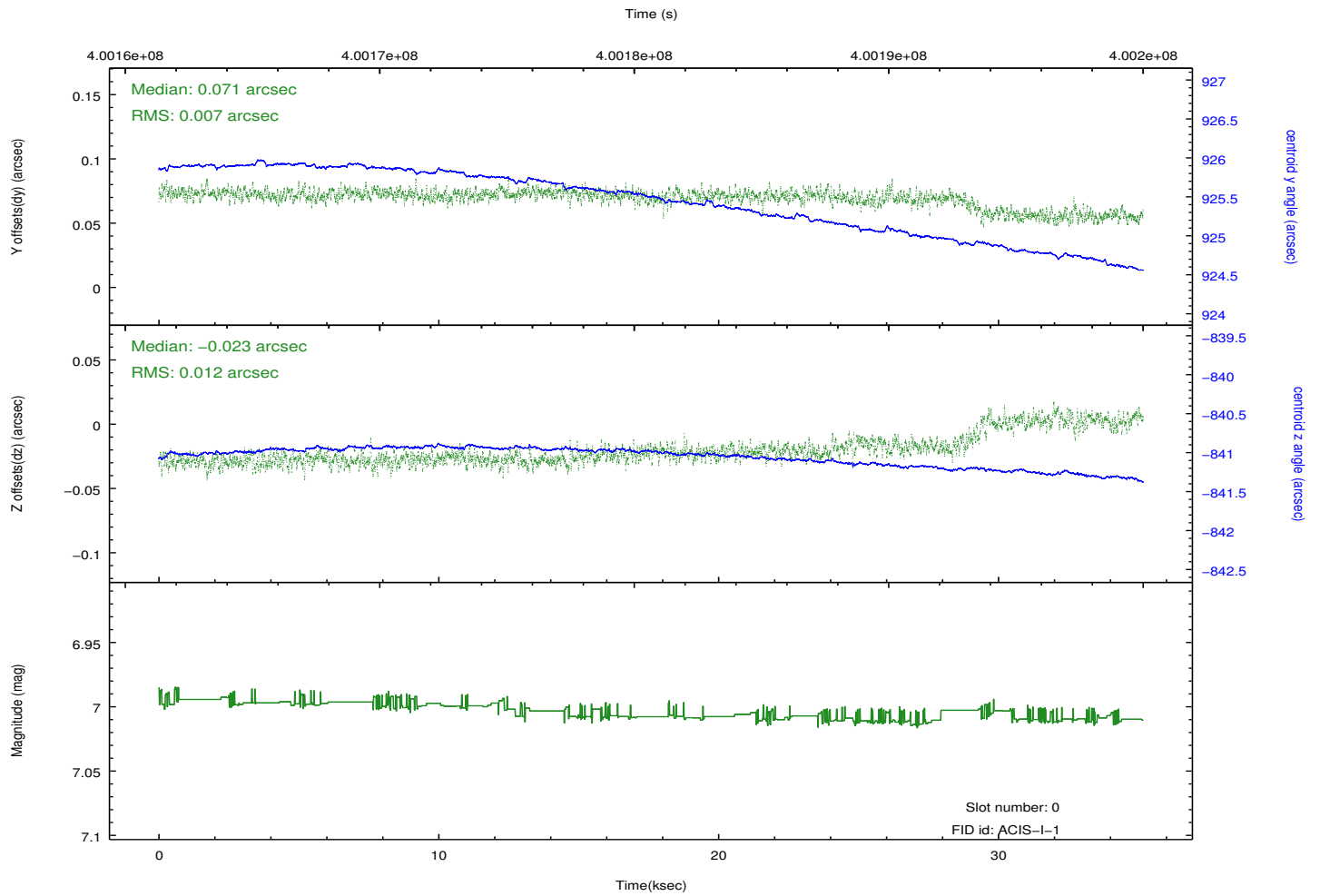
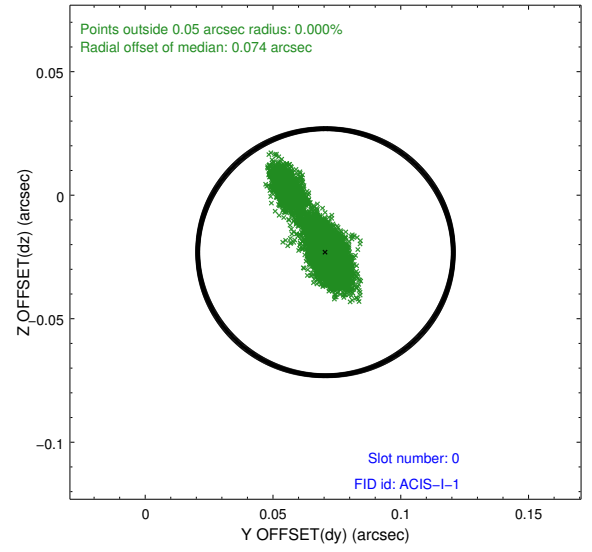
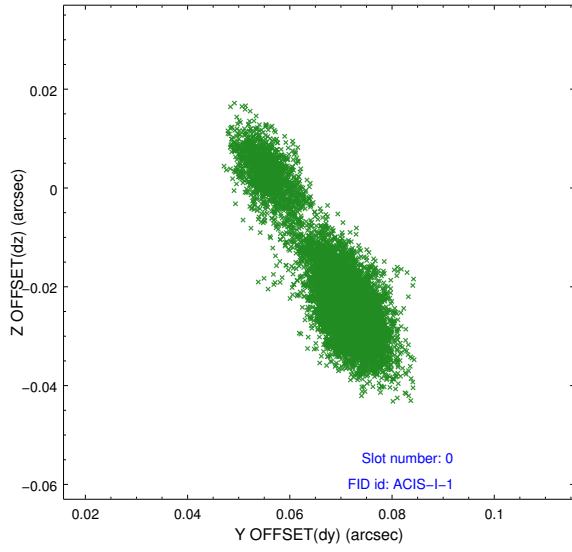


2.4.5 Slot 7

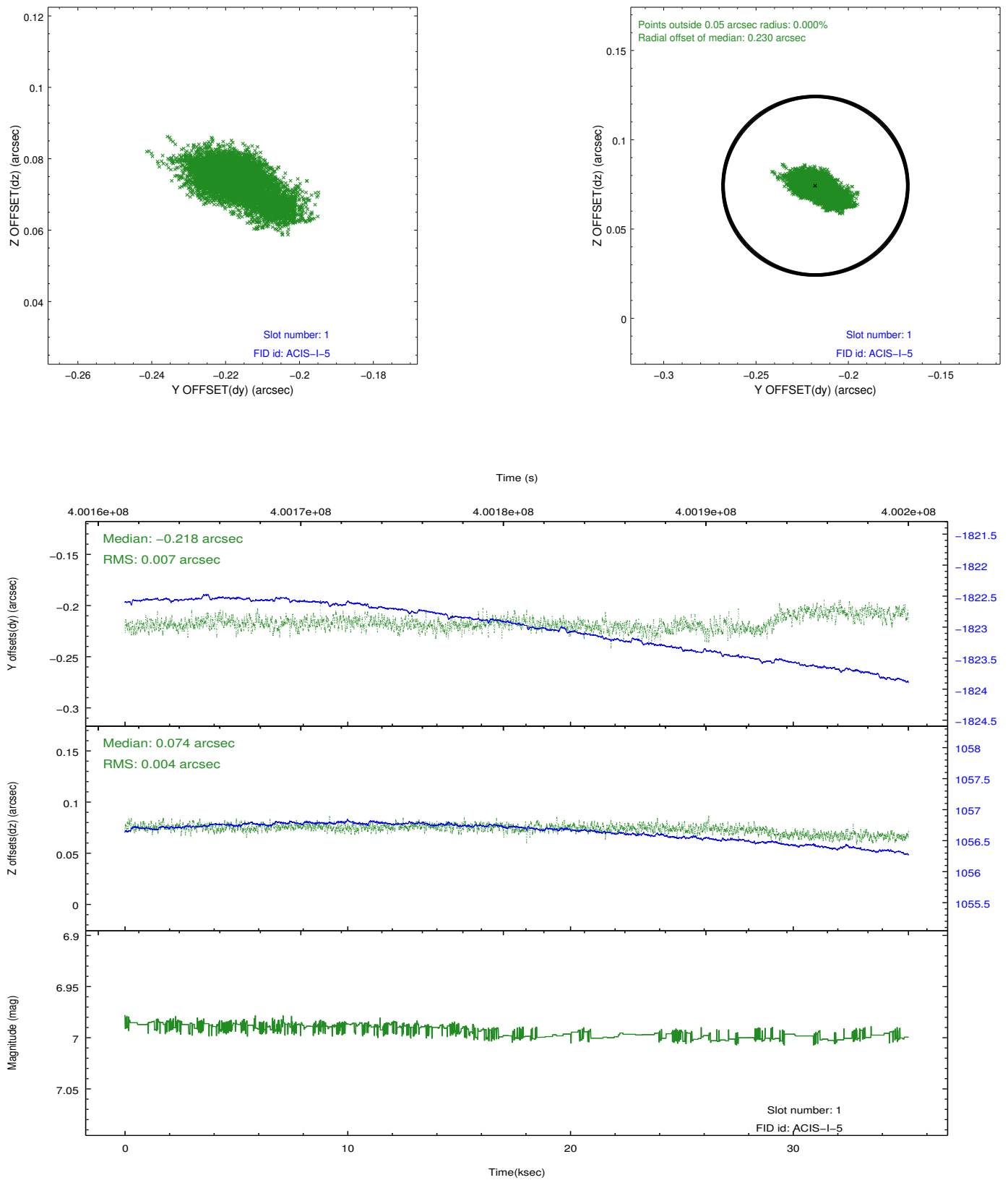


2.5 FID Slots

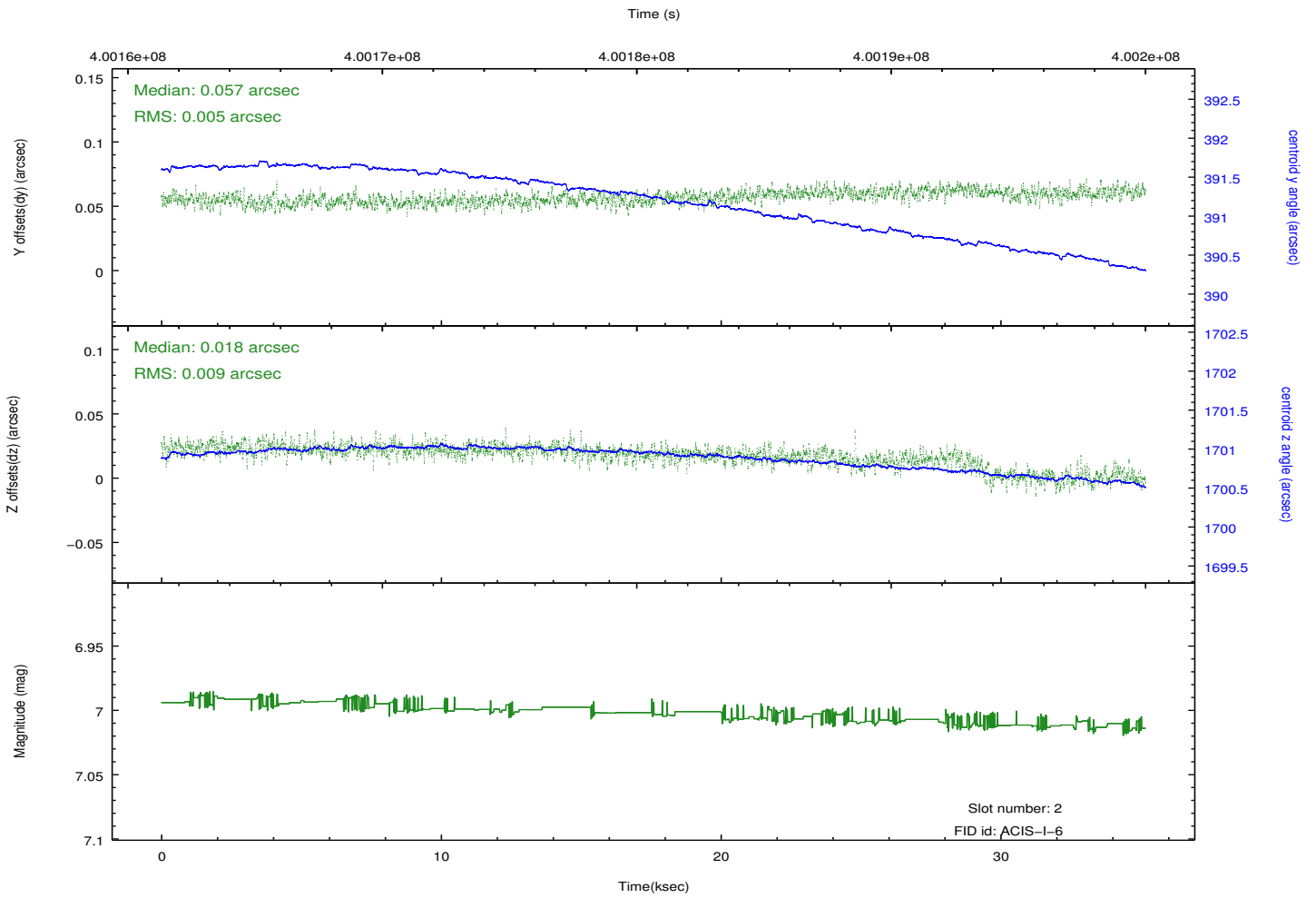
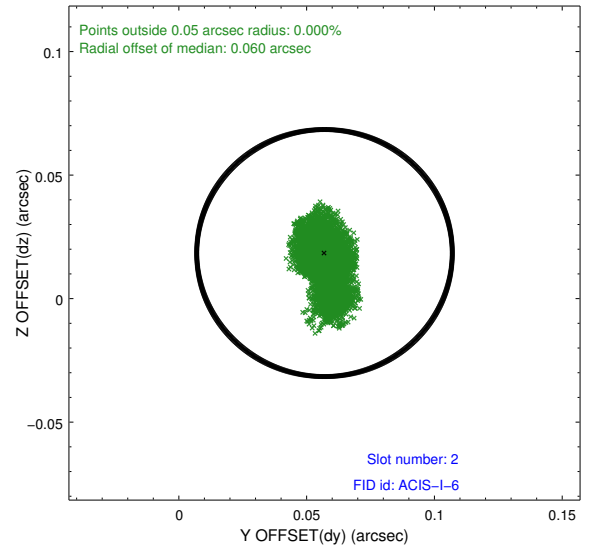
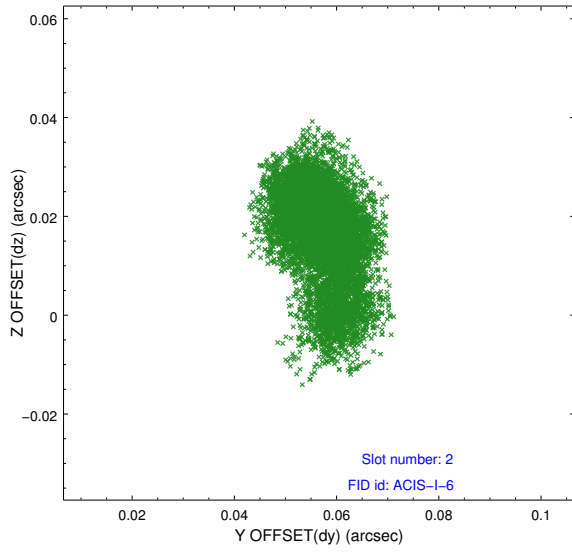
2.5.1 Slot 0



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)	2012.07.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.04959986949

A.2 Comments