

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13617 - L2 Version 2
Chandra X-Ray Center

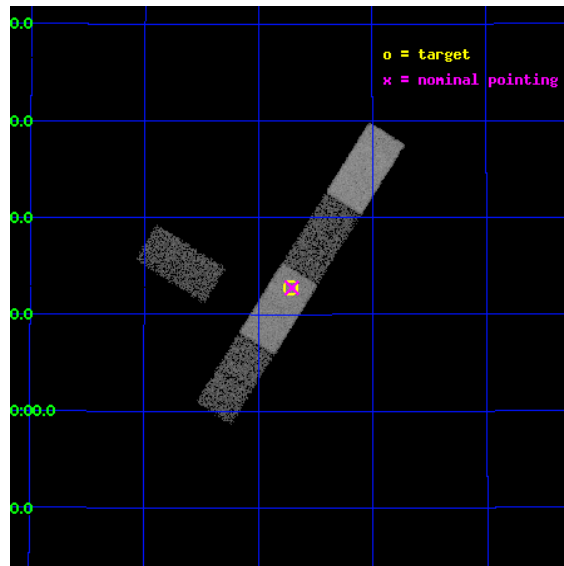
L2 Processing Date : Feb 27 2012

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

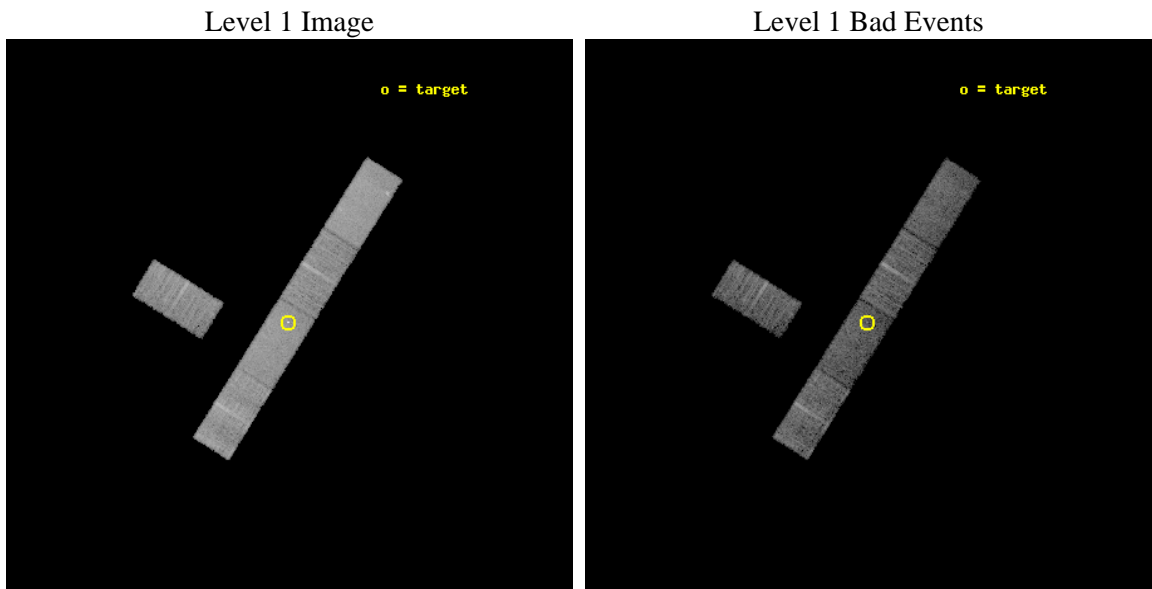
seq_num	200771	Sequence number
obs_id	13617	Observation id
title	The X-ray puzzle of late B and early A stars	Proposal title
observer	Dr. Jan Robrade	Principal investigator
object	HD 40312	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	89.930417	Observer's specified target RA [deg]
dec_targ	37.212583	Observer's specified target Dec [deg]
ra_nom	89.926604109935	Nominal RA [deg]
dec_nom	37.212635921613	Nominal Dec [deg]
roll_nom	122.10427786327	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10063.999929488	Sum of GTIs [s]
livetime	9826.7701374633	Livetime [s]
ontime3	10063.999929488	Sum of GTIs [s]
ontime5	10063.999929488	Sum of GTIs [s]
ontime6	10063.999929488	Sum of GTIs [s]
ontime7	10063.999929488	Sum of GTIs [s]
ontime8	10063.999929488	Sum of GTIs [s]
l2events	53604	Number of level 2 events



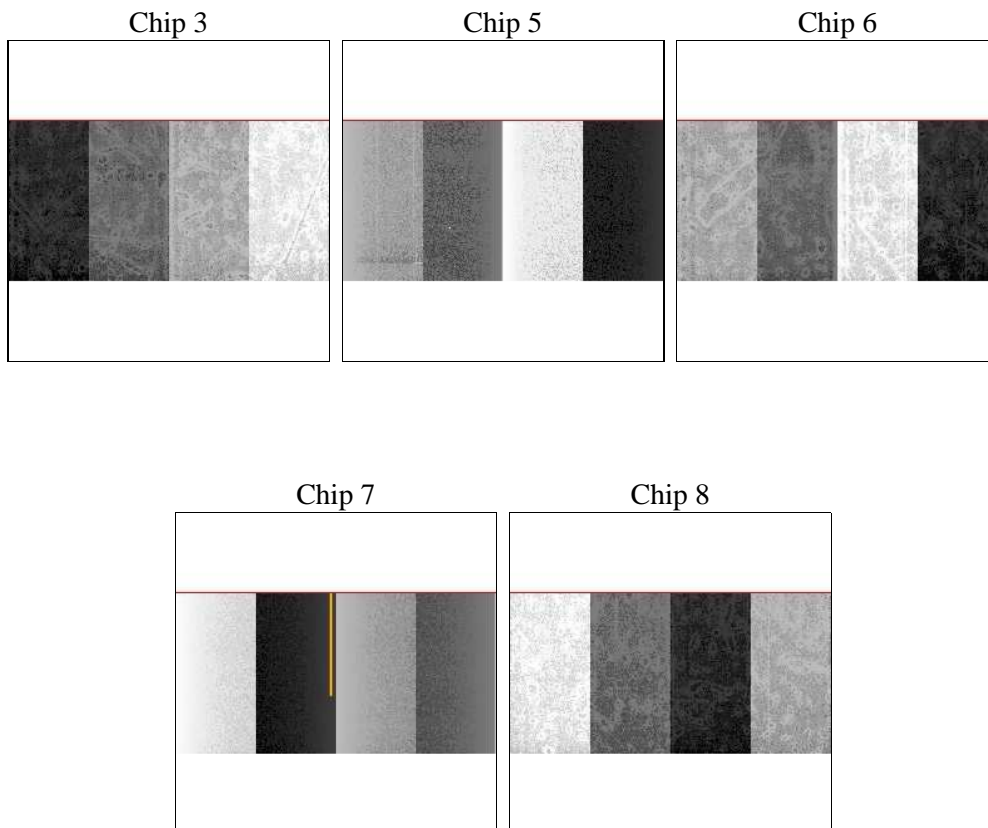
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	10063.999929488	Sum of GTIs [s]
caldbver	4.4.8	 	ontime3	10063.999929488	Sum of GTIs [s]
date	2012-02-28T00:12:27	Date and time of file creation	ontime5	10063.999929488	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	10063.999929488	Sum of GTIs [s]
			ontime7	10063.999929488	Sum of GTIs [s]
			ontime8	10063.999929488	Sum of GTIs [s]
			l1events	209993	Number of level 1 events

2.1.4 Events

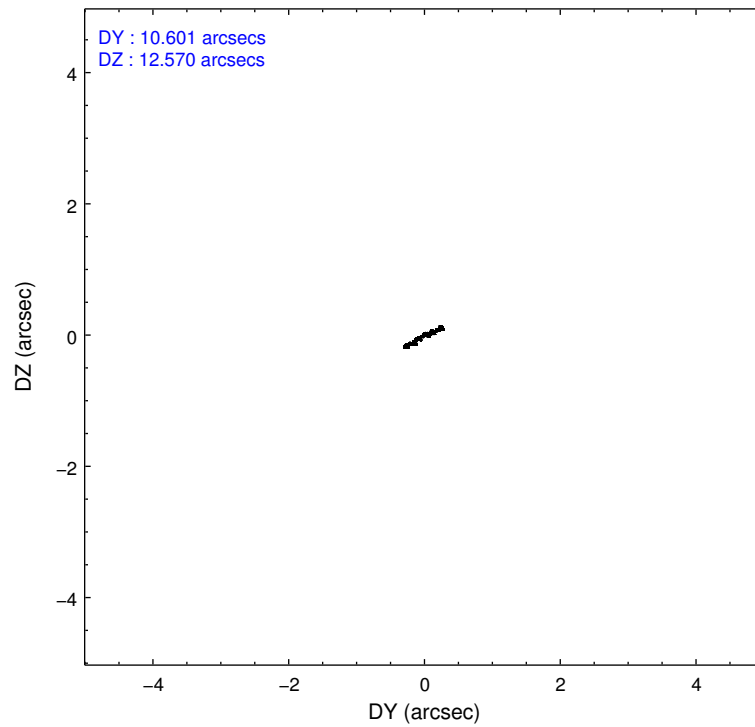
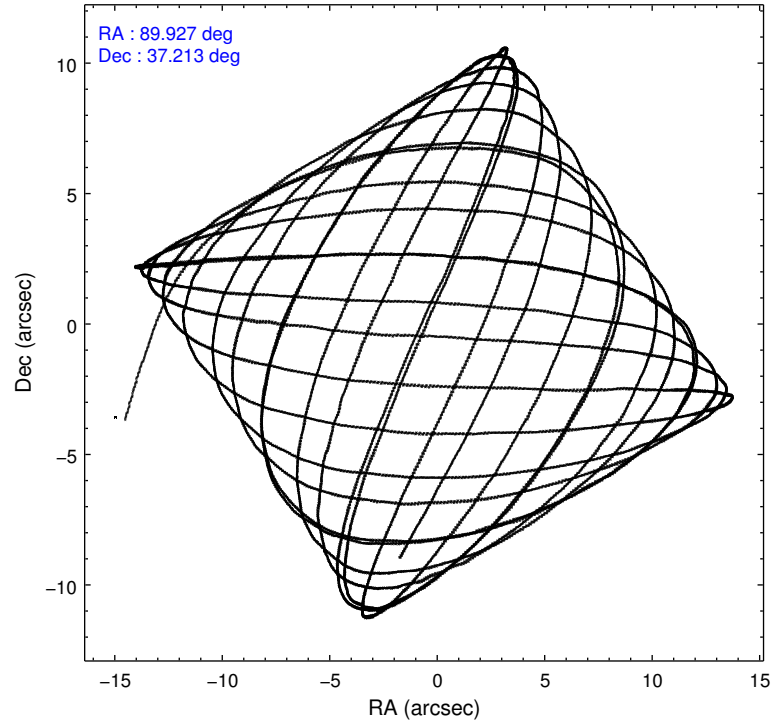
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	33554	51057	34974	43792	46616
rejected events	30046	26547	30856	23592	35277
rejected %	89%	51%	88%	53%	75%

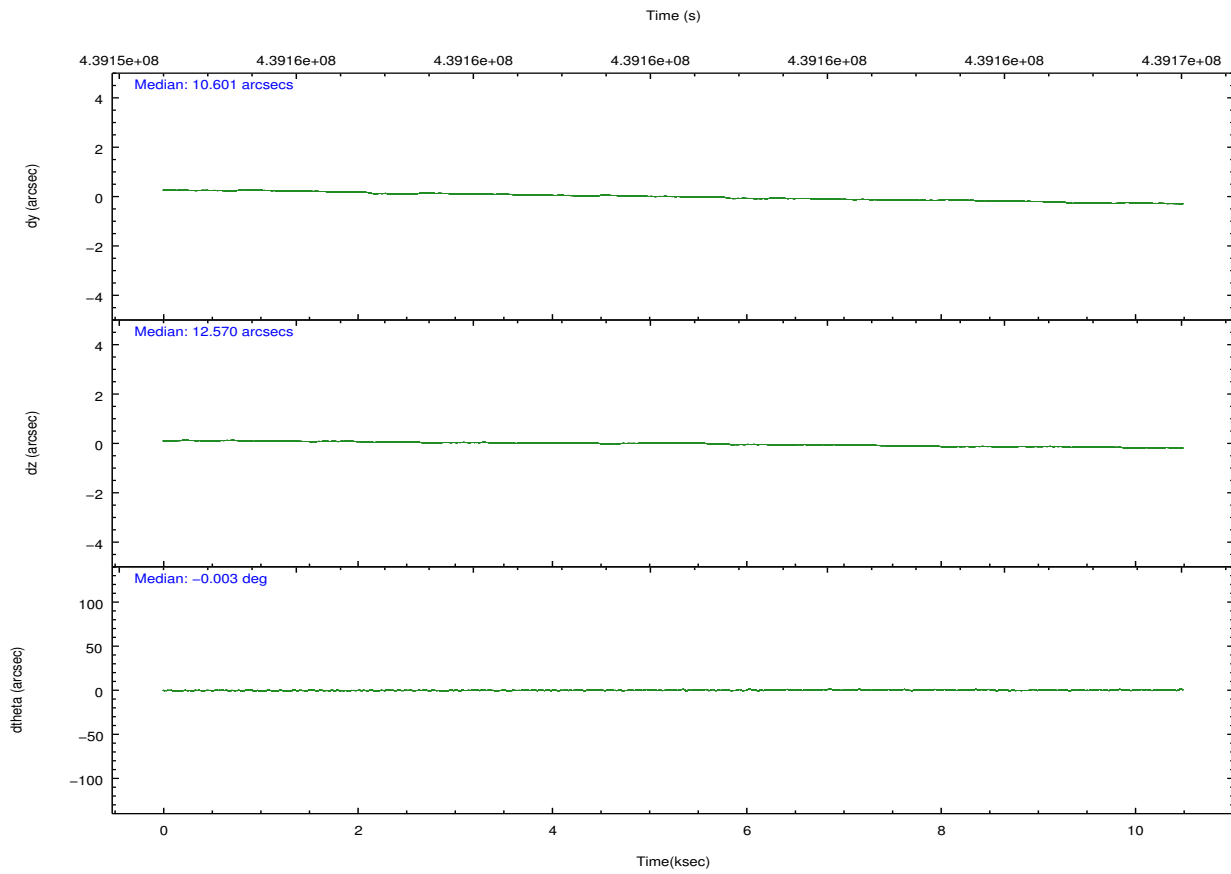
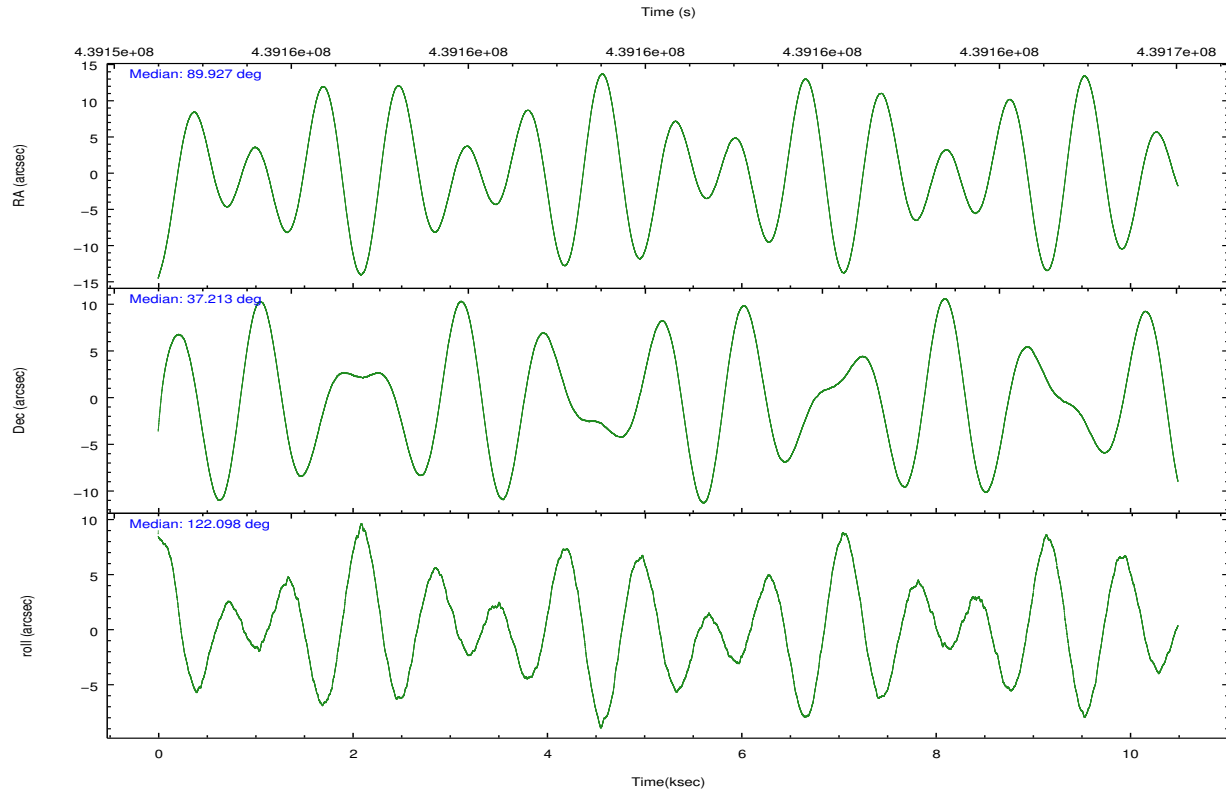
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1095	1845	1292	2195	2961
	3%	3%	3%	5%	6%
grade 1 events	13	110	22	62	28
	0%	0%	0%	0%	0%
grade 2 events	799	7422	881	4067	2734
	2%	14%	2%	9%	5%
grade 3 events	426	938	517	2044	1192
	1%	1%	1%	4%	2%
grade 4 events	454	991	521	1909	1102
	1%	1%	1%	4%	2%
grade 5 events	1522	3820	1608	4390	2319
	4%	7%	4%	10%	4%
grade 6 events	734	13320	907	9986	3352
	2%	26%	2%	22%	7%
grade 7 events	28511	22611	29226	19139	32928
	84%	44%	83%	43%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	89.957171	89.926604109935	CCD I2 on	N	N
[deg] Pointing Dec	37.200142	37.21263592161302	CCD I3 on	O2	Y
[deg] Pointing Roll	121.929164	122.1042778632715	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	439155496.184000	439154540.30814	CCD S5 on	N	N
Observation start date	2011-12-01T19:37:10	2011-12-01T19:22:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	439165496.184000	439166059.25875	On-chip summing requested	N	N
Observation end date	2011-12-01T22:23:50	2011-12-01T22:34:19	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



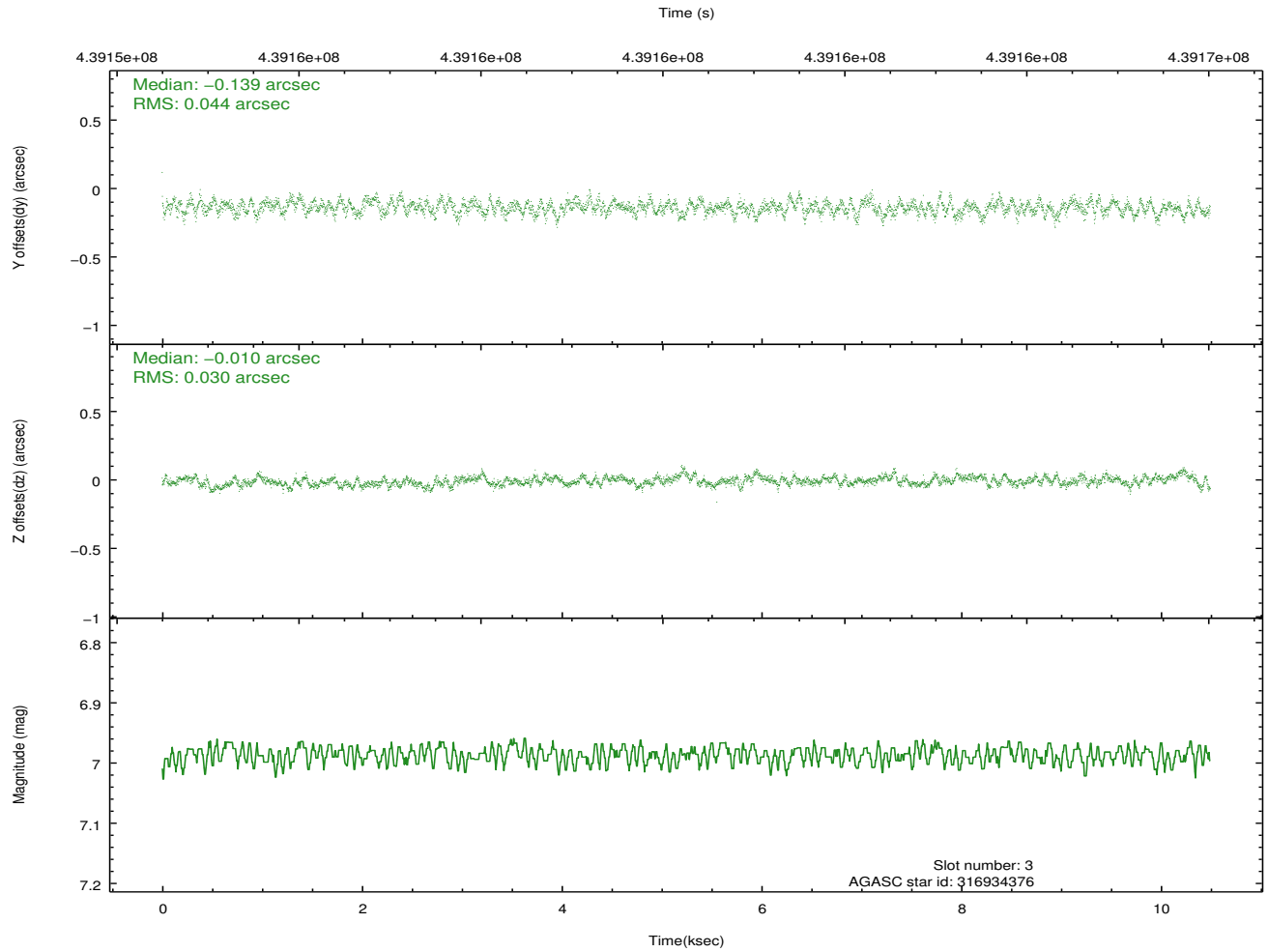
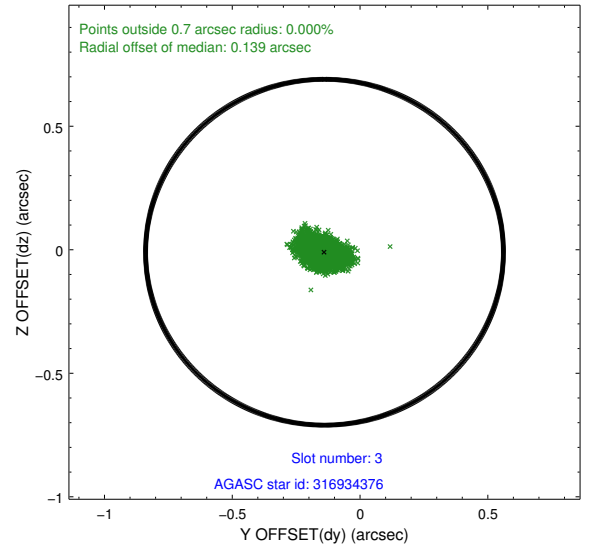
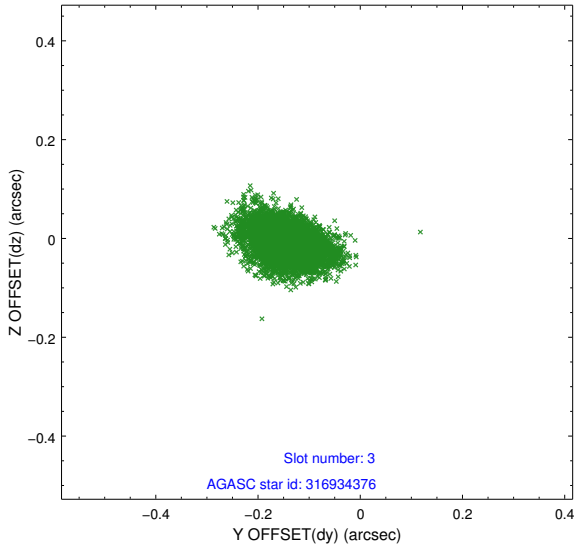


Slot Statistics

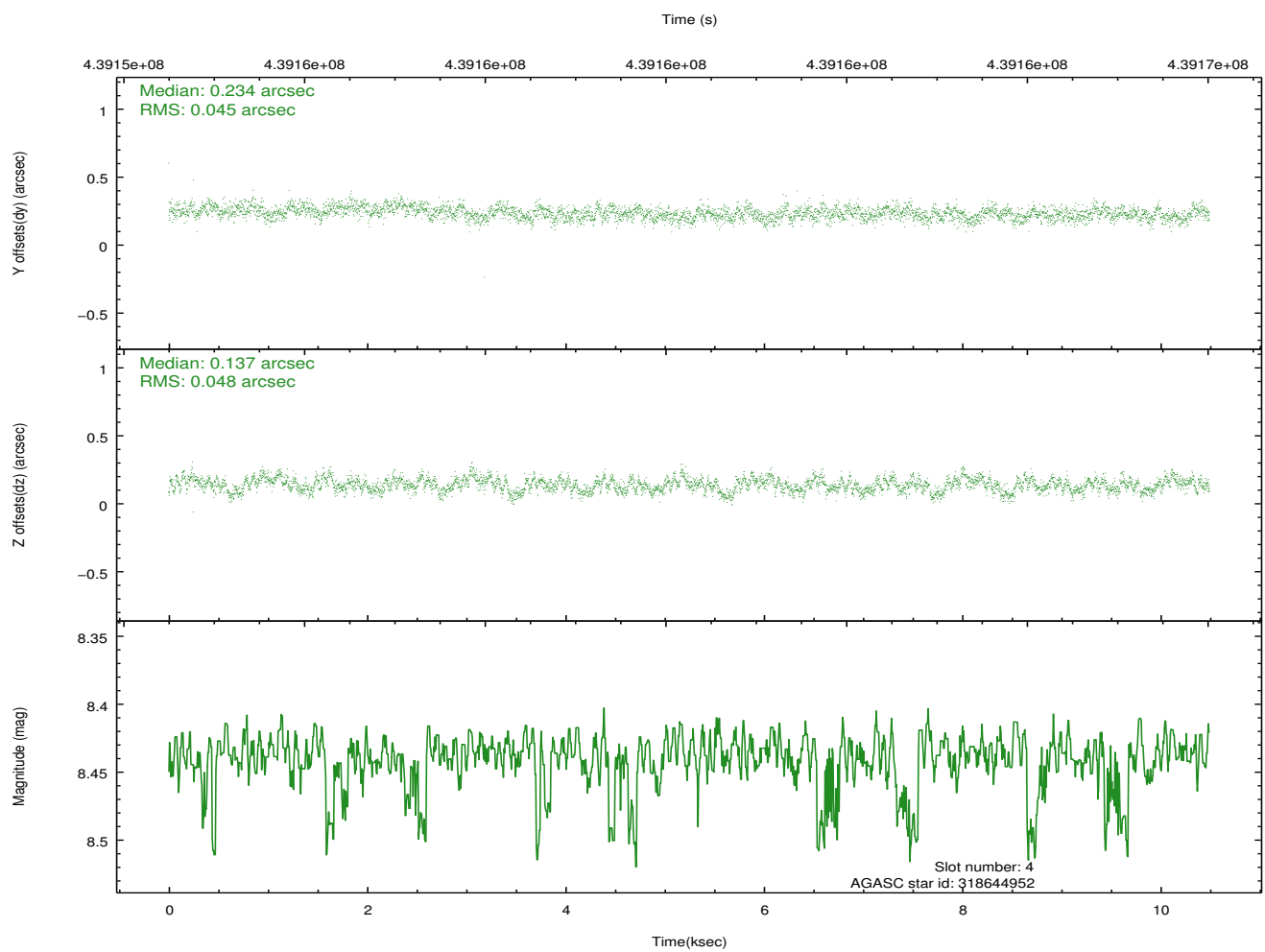
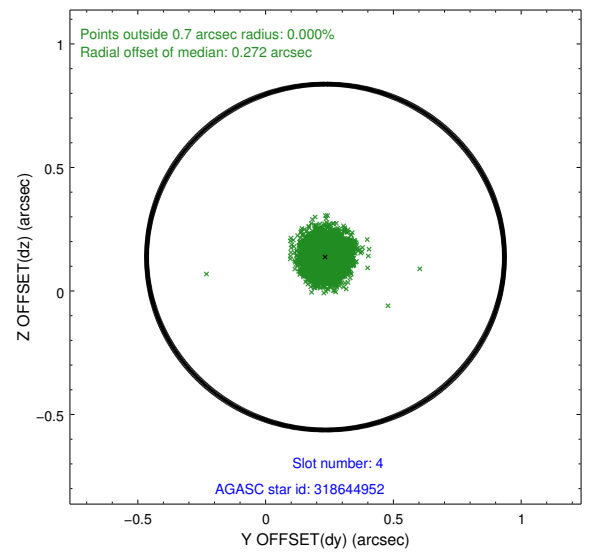
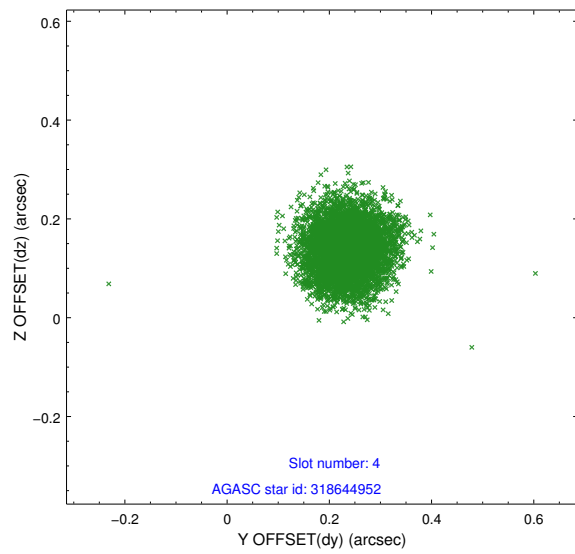
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.98	2560	-0.045	-0.035	0.008	0.014	0.000000	0.000000	-763.52	-1733.88
1	FID	ACIS-S-4	7.08	2560	0.175	0.032	0.012	0.022	0.000000	0.000000	2149.78	174.09
2	FID	ACIS-S-5	7.11	2559	-0.160	0.012	0.010	0.019	0.000000	0.000000	-1815.80	168.40
3	GUIDE	316934376	6.99	5120	-0.139	-0.010	0.056	0.094	89.910460	36.814603	-1106.85	848.37
4	GUIDE	318644952	8.44	5102	0.234	0.137	0.070	0.109	90.695458	36.870649	-2123.97	-1181.32
5	GUIDE	381695824	7.21	5120	-0.194	-0.235	0.069	0.106	89.459692	37.518196	1725.63	598.00
6	GUIDE	383397944	8.65	5117	0.189	-0.086	0.110	0.190	90.226021	38.090669	2320.11	-2342.08
7	GUIDE	383394008	8.63	5117	-0.088	0.196	0.076	0.129	90.546338	37.737509	759.97	-2449.43

2.4 Star Slots

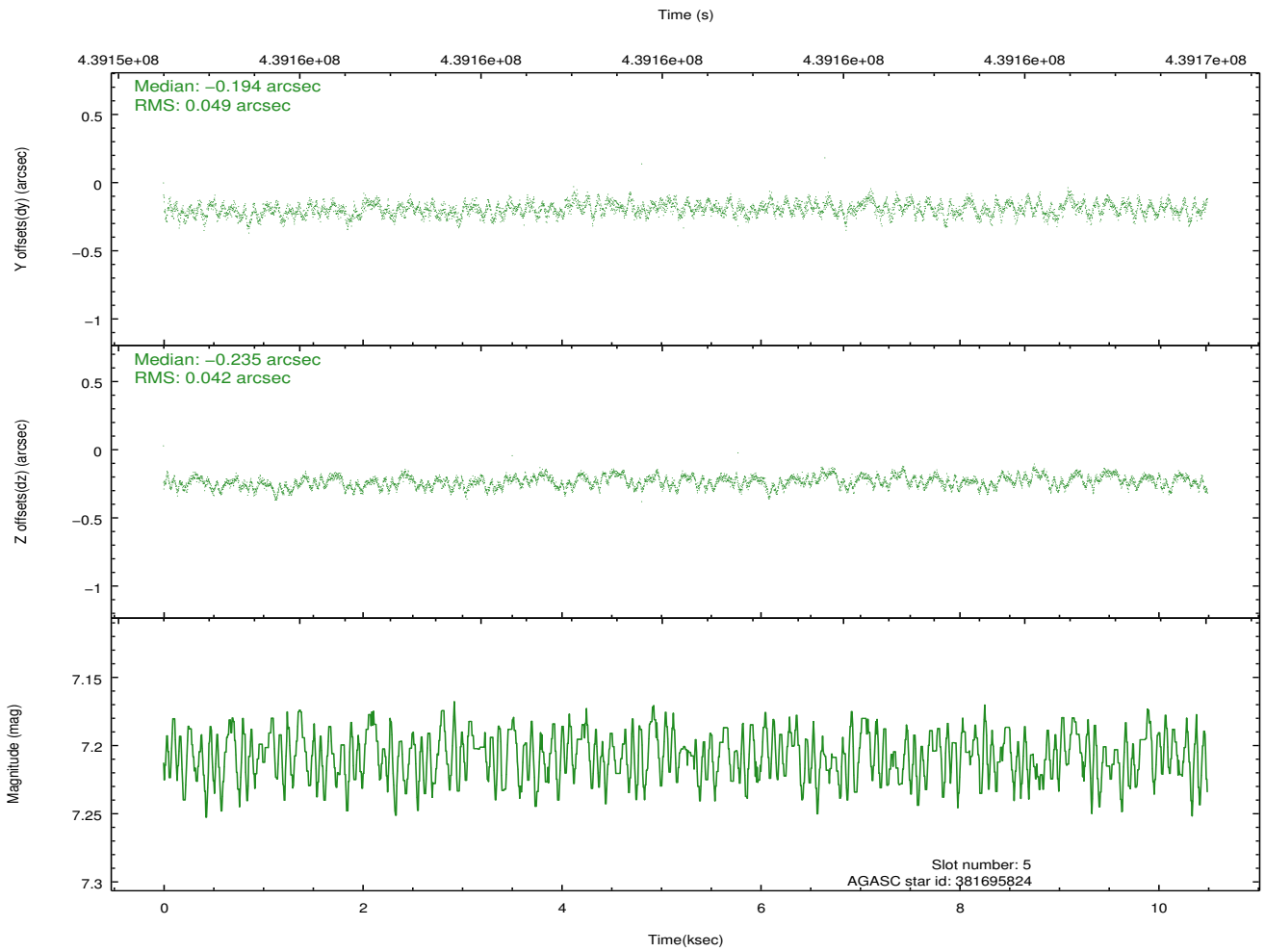
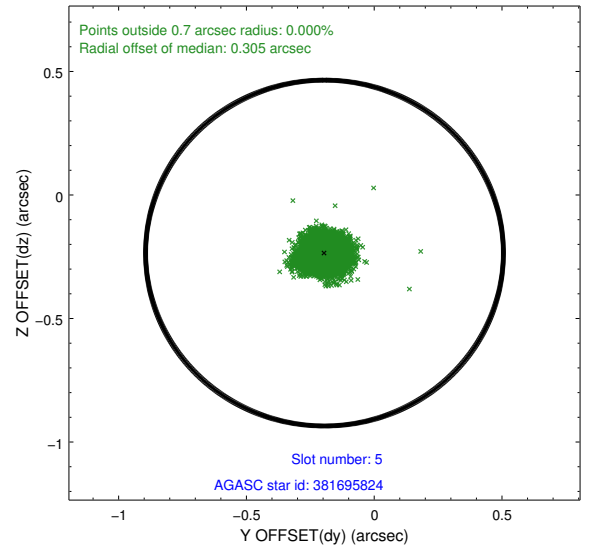
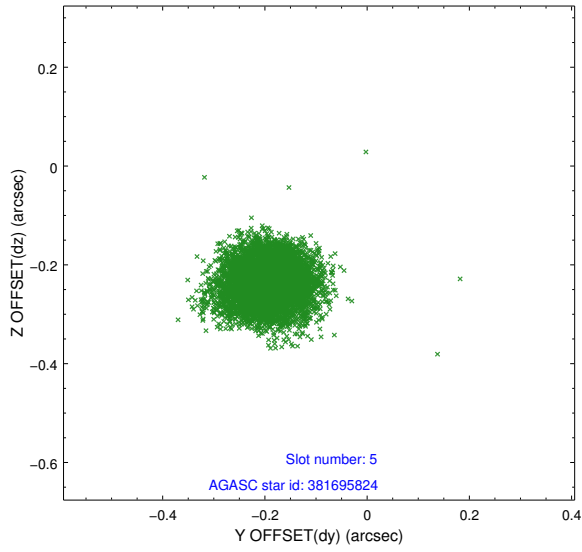
2.4.1 Slot 3



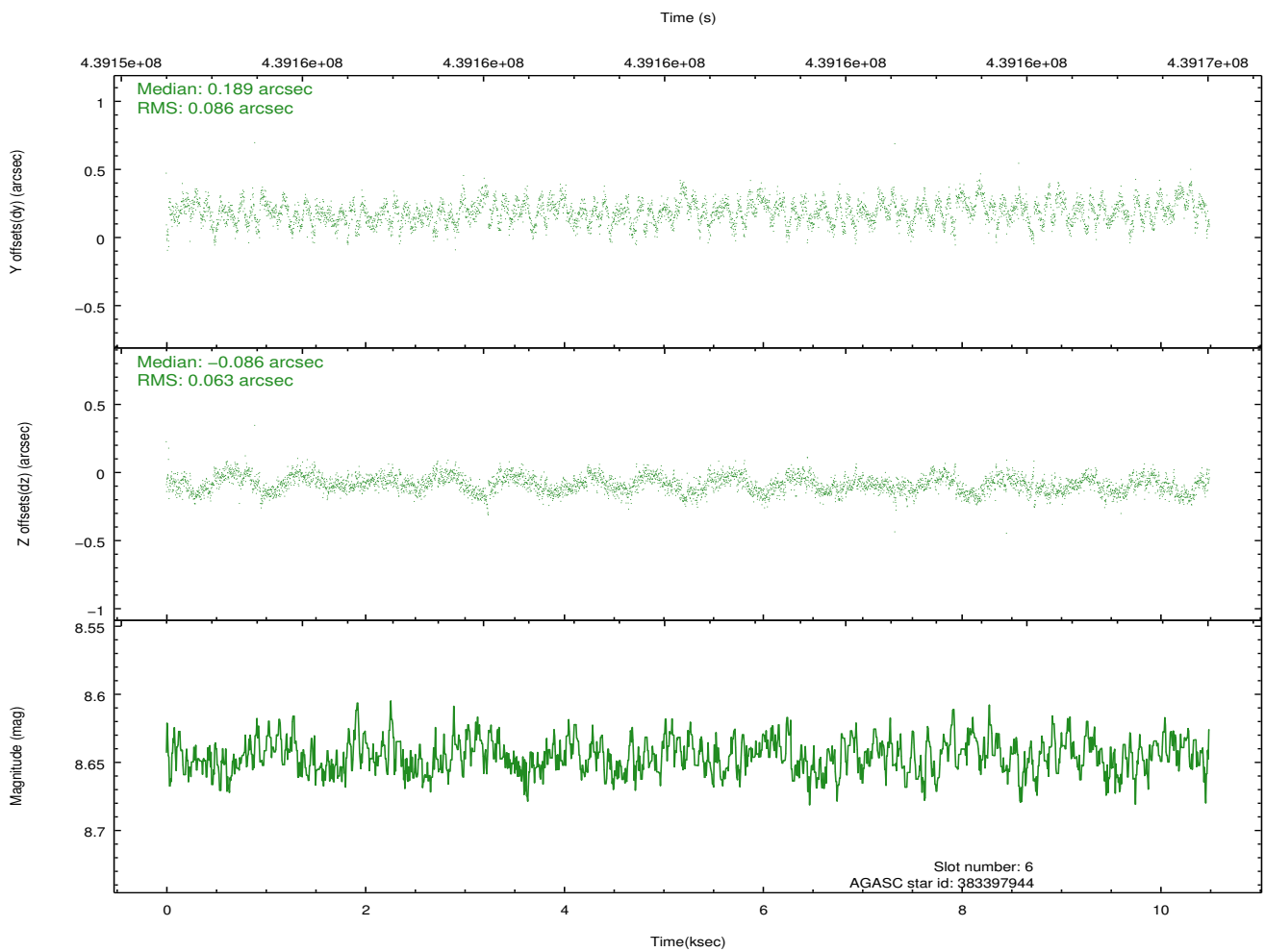
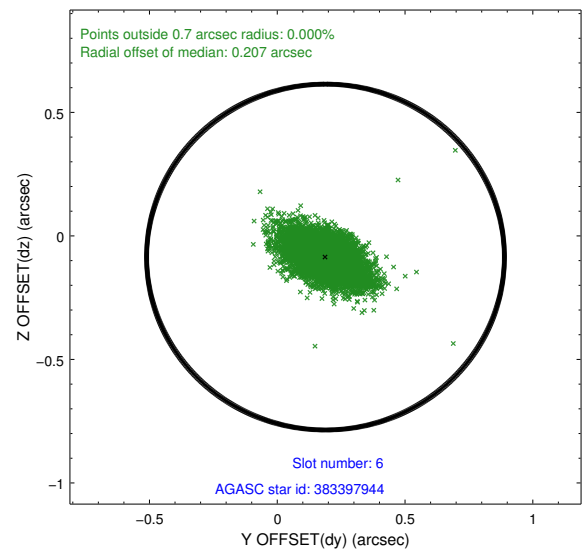
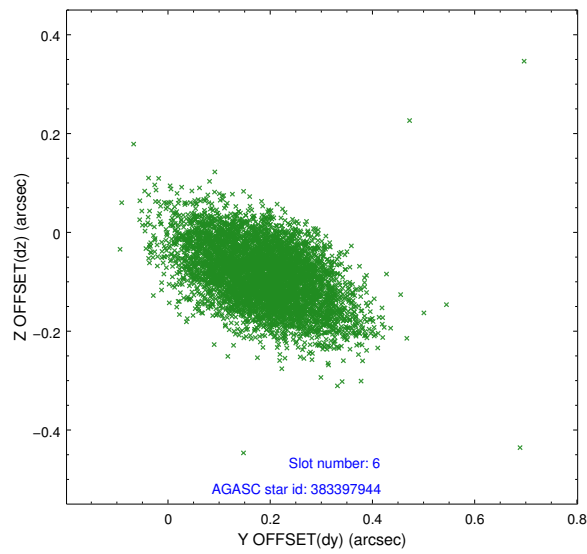
2.4.2 Slot 4



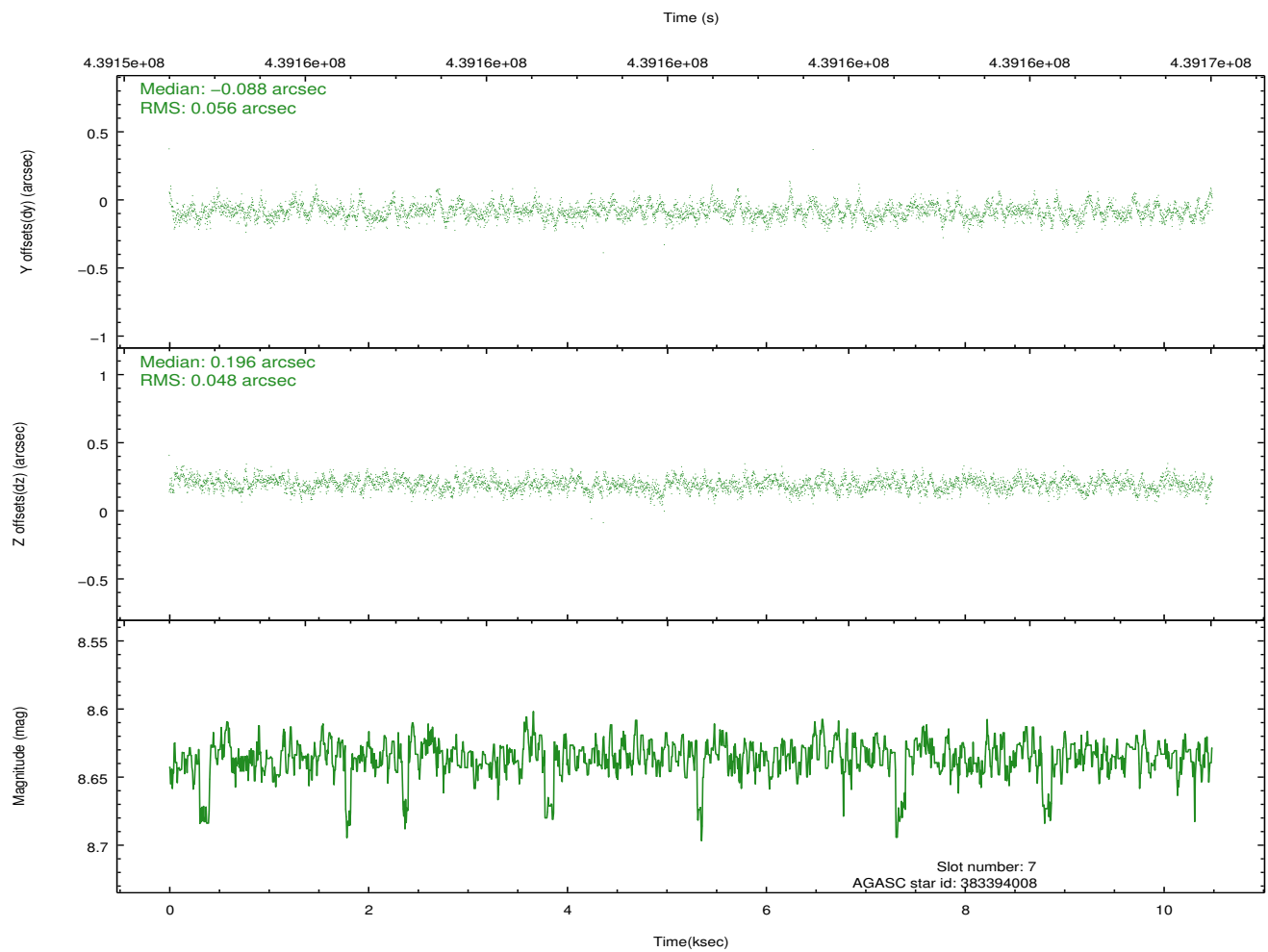
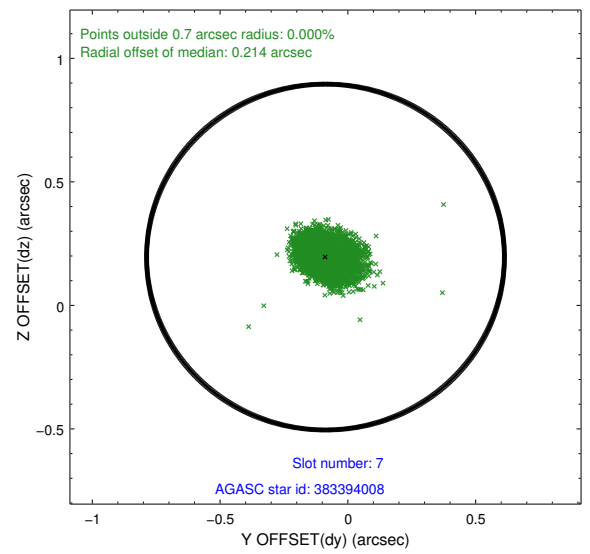
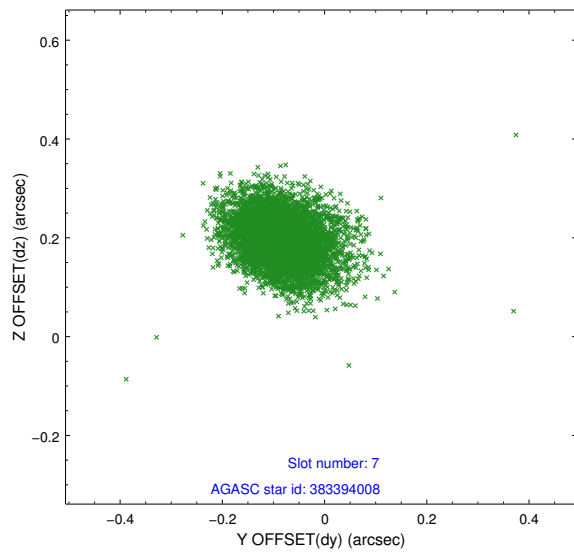
2.4.3 Slot 5



2.4.4 Slot 6

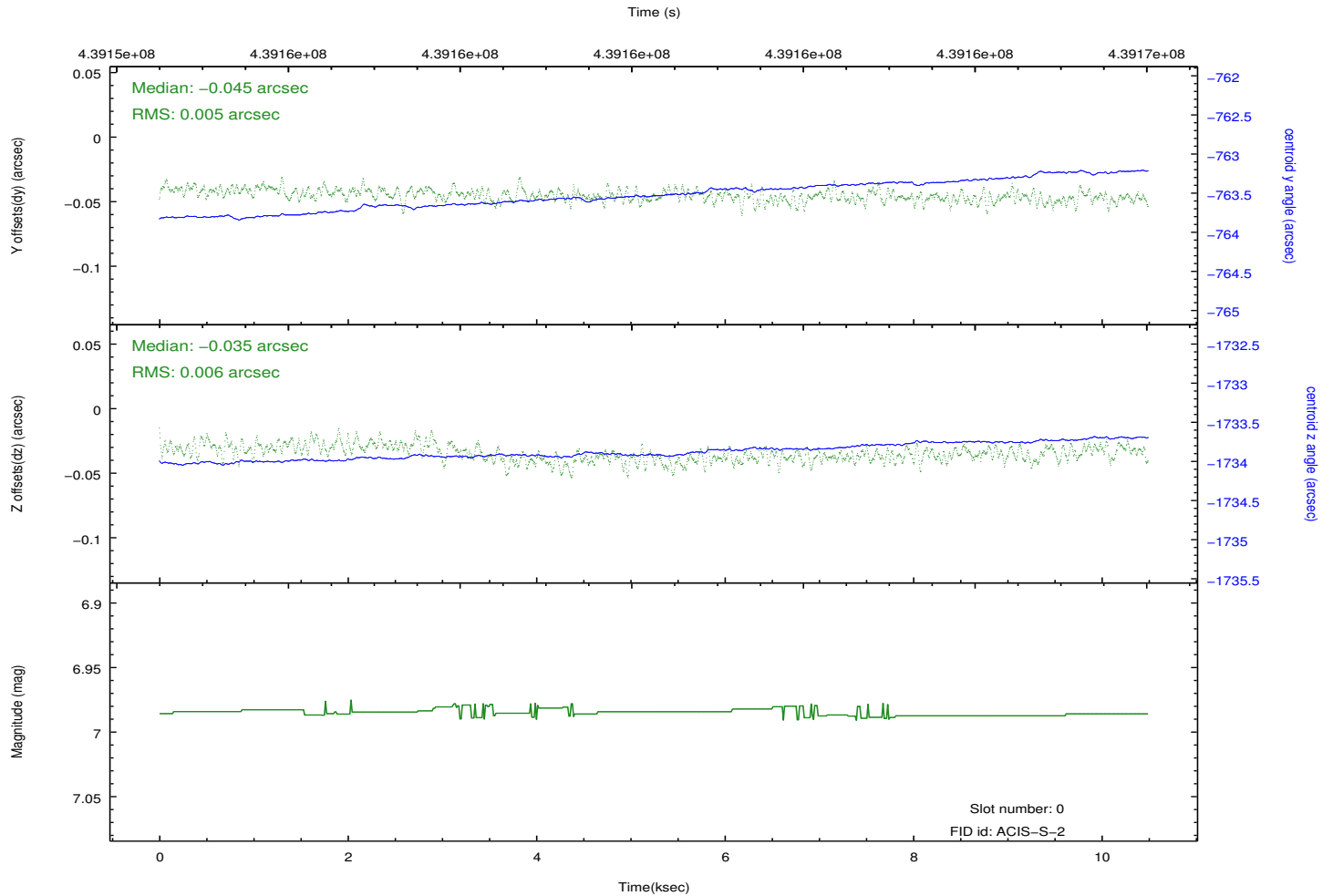
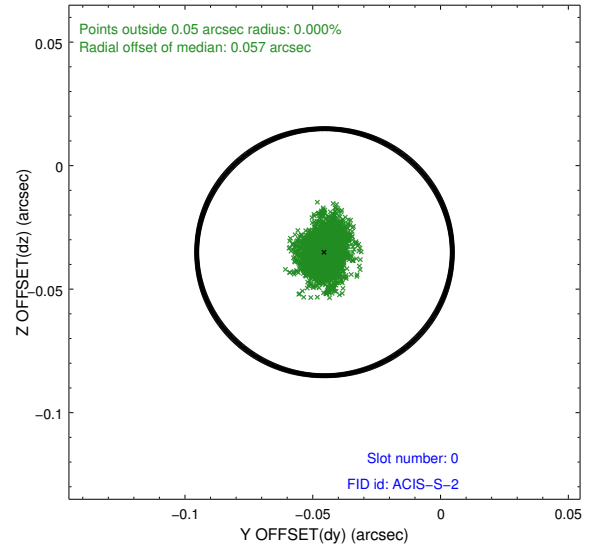
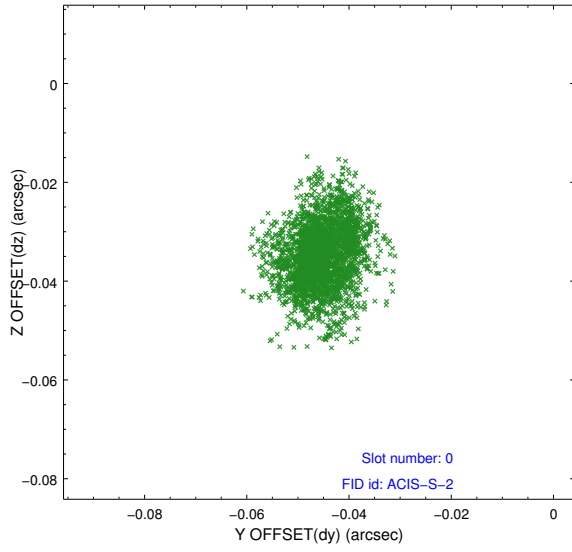


2.4.5 Slot 7

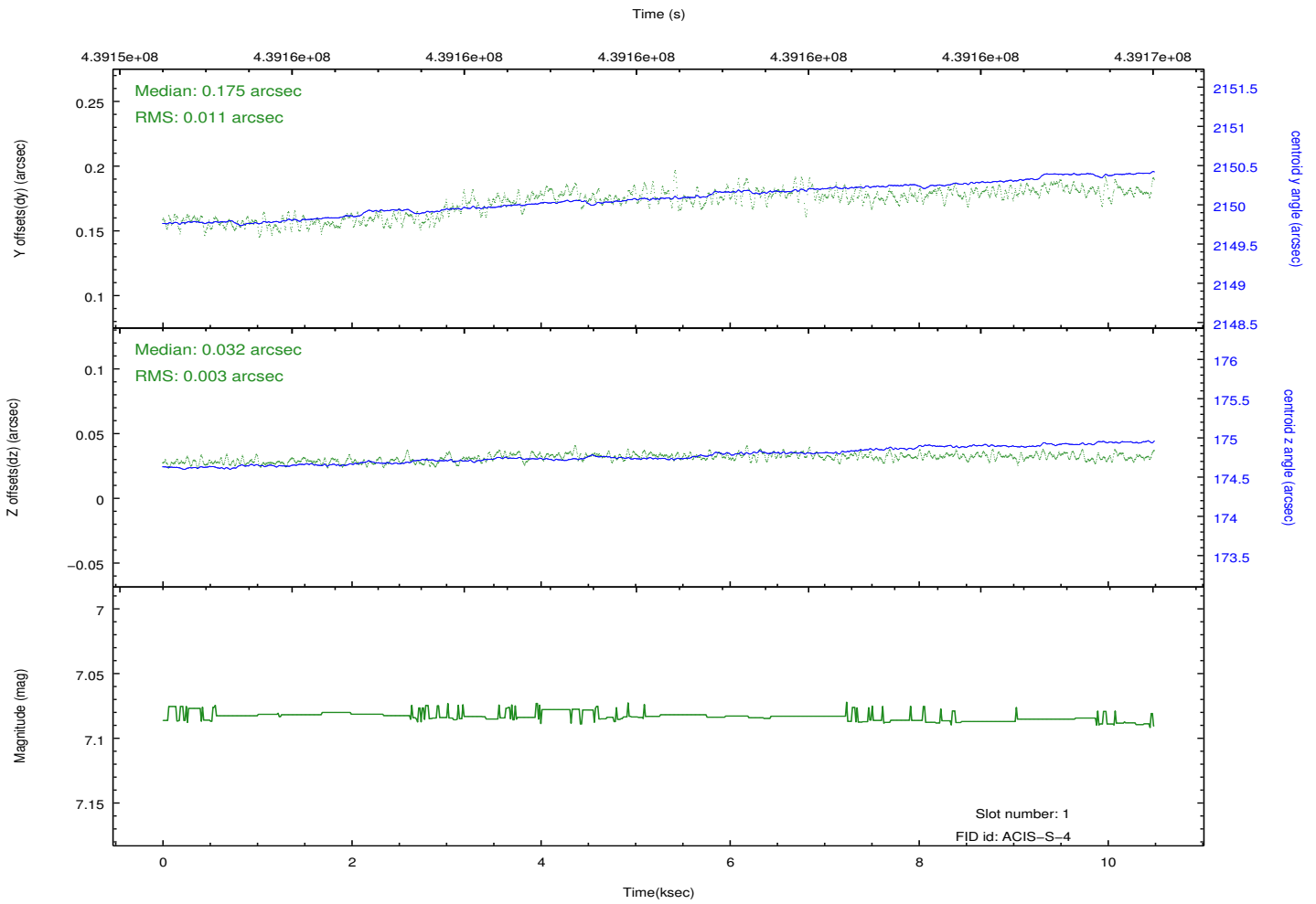
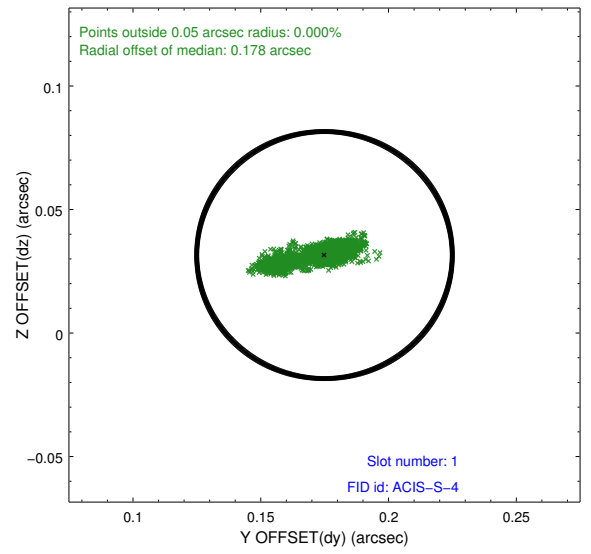
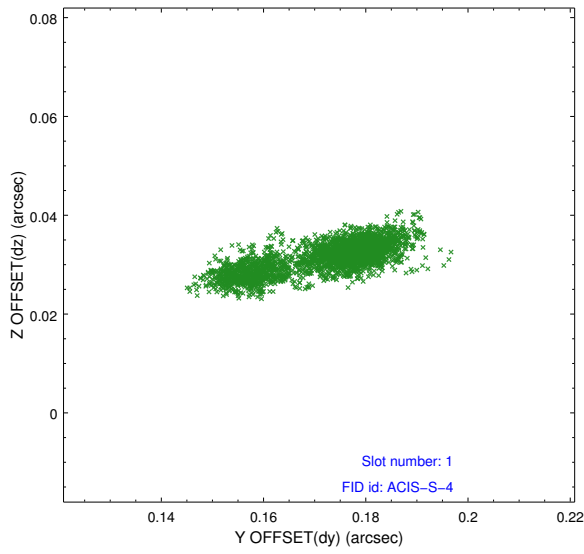


2.5 FID Slots

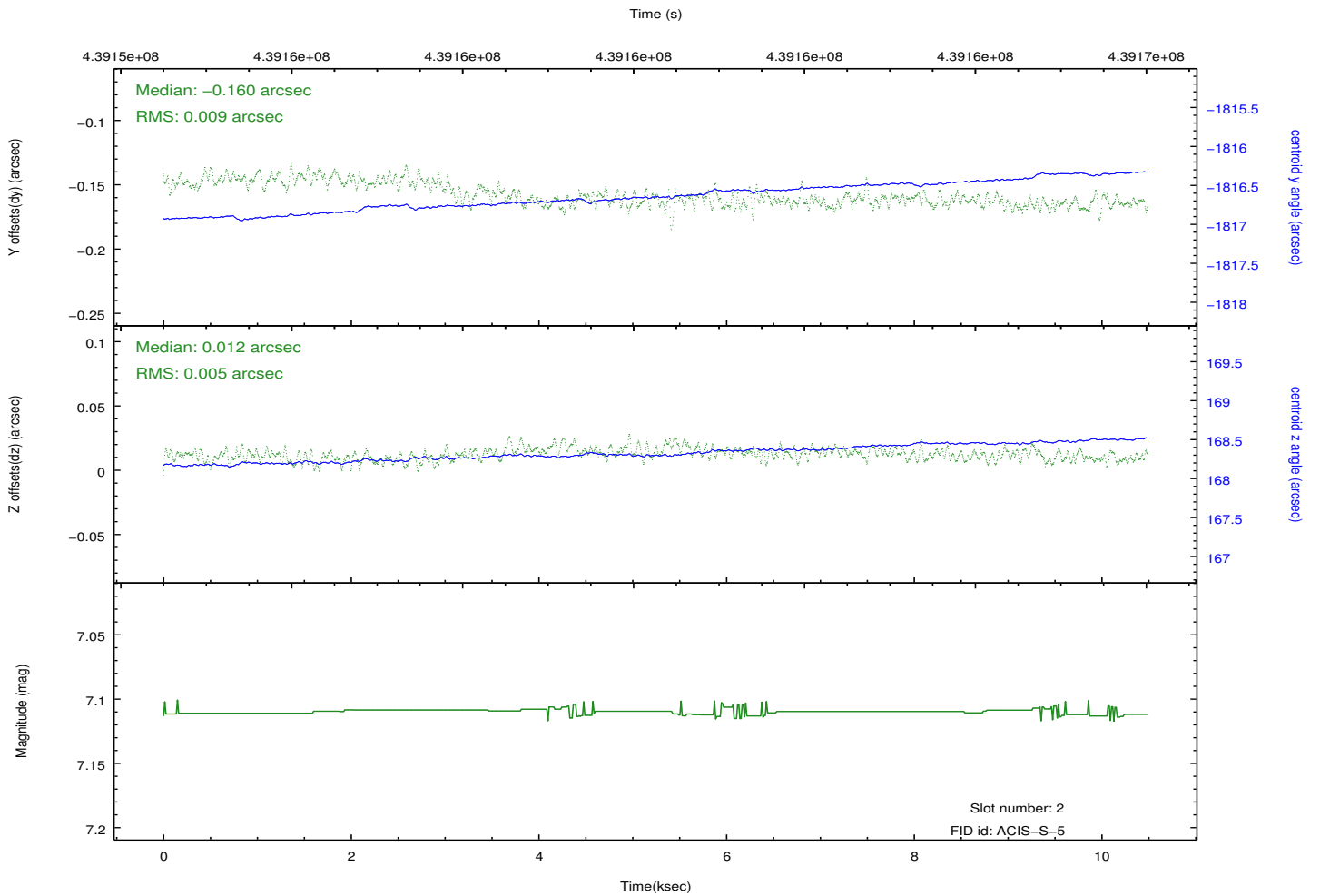
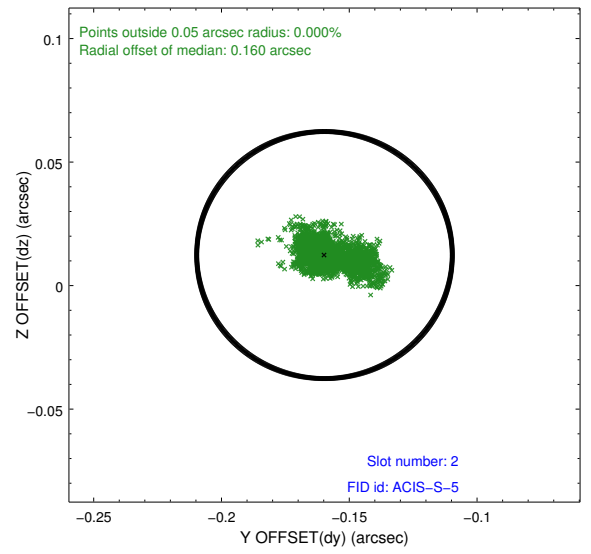
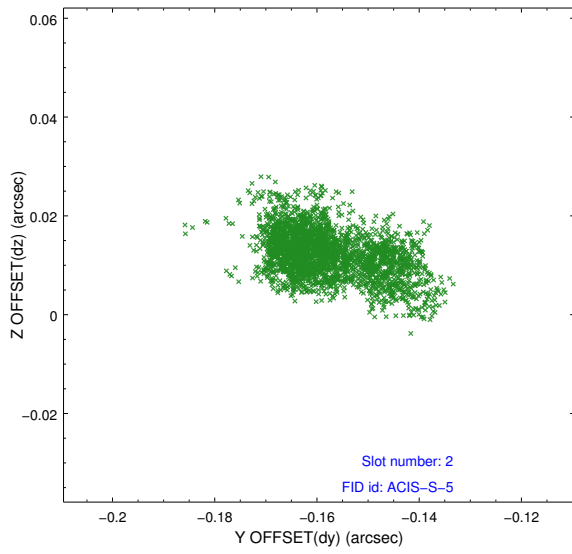
2.5.1 Slot 0



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)	2012.02.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.063999929488

A.2 Comments