

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18897 - L2 Version 1
Chandra X-Ray Center

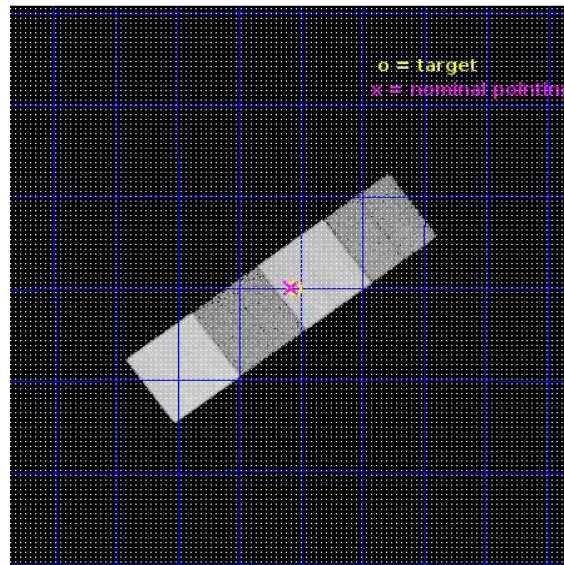
L2 Processing Date : Apr 3 2017

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1 Front

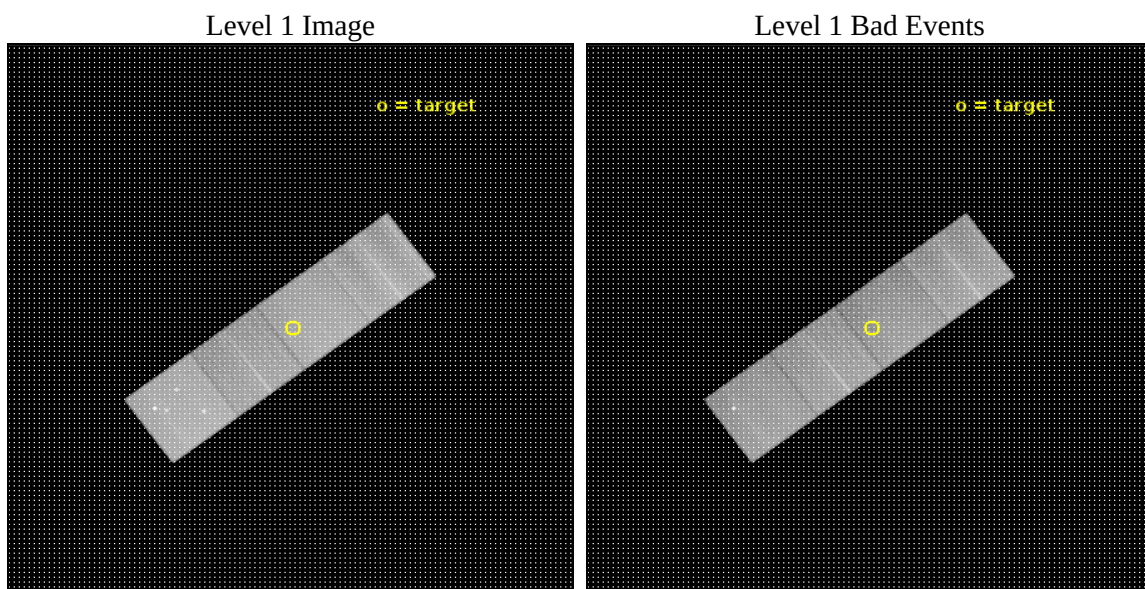
seq_num	201090	Sequence number
obs_id	18897	Observation id
title	X-rays from Young Low-Mass Stars: Inhospitable Habitable Zones?	Pr
observer	Joel Kastner	Principal investigator
object	TWA 33	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	174.8875	Observer's specified target RA [deg]
dec_targ	-30.666667	Observer's specified target Dec [deg]
ra_nom	174.89417164102	Nominal RA [deg]
dec_nom	-30.665496201517	Nominal Dec [deg]
roll_nom	323.5051607106	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30063.800231338	Sum of GTIs [s]
livetime	29670.994548667	Livetime [s]
ontime5	30063.800231338	Sum of GTIs [s]
ontime6	30063.800231338	Sum of GTIs [s]
ontime7	30063.800231338	Sum of GTIs [s]
ontime8	30063.800231338	Sum of GTIs [s]
l2events	310192	Number of level 2 events



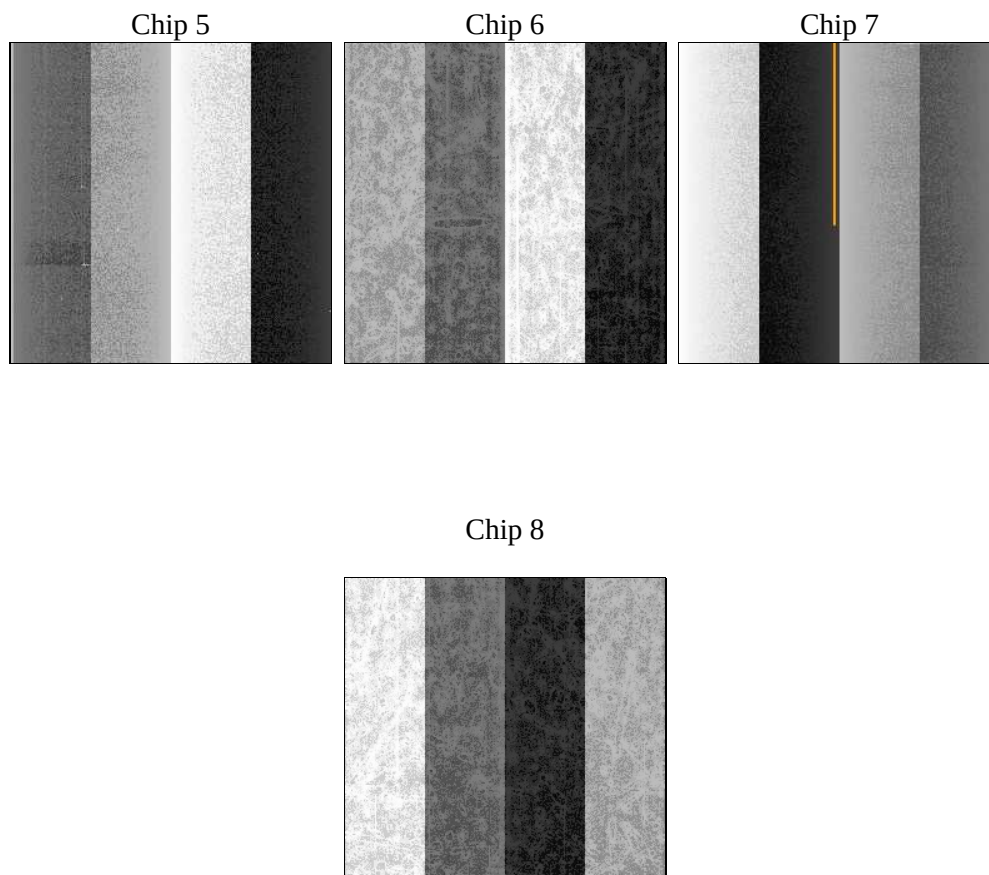
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	30063.800231338	Sum of GTIs [s]
caldbver	4.7.3	 	ontime5	30063.800231338	Sum of GTIs [s]
date	2017-04-04T00:21:04	Date and time of file creation	ontime6	30063.800231338	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	30063.800231338	Sum of GTIs [s]
			ontime8	30063.800231338	Sum of GTIs [s]
			l1events	1097953	Number of level 1 events

2.1.4 Events

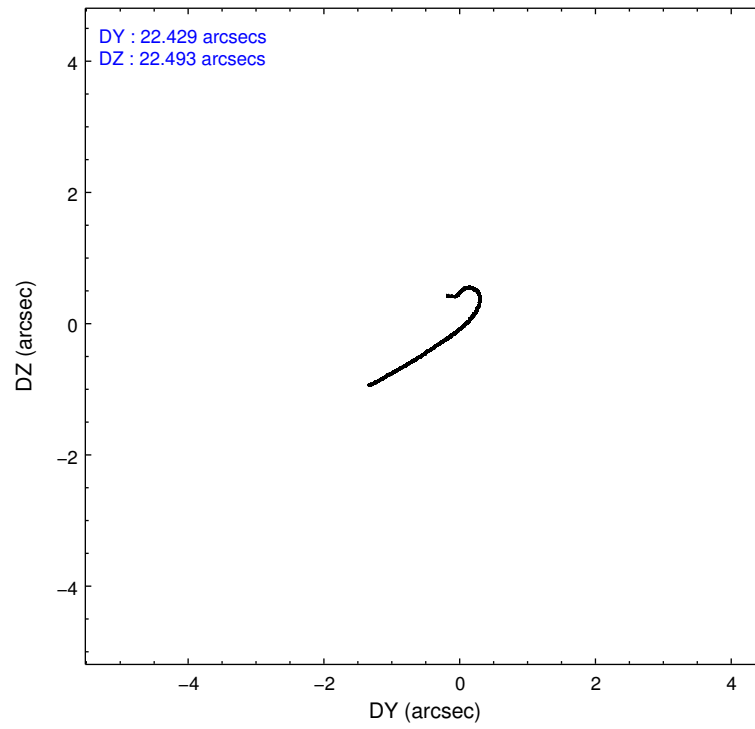
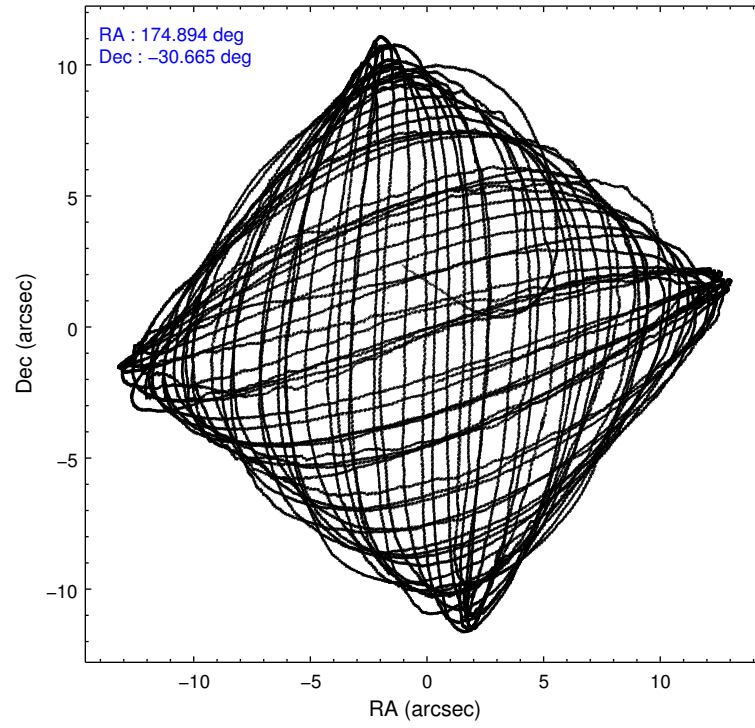
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	342864	213517	268849	272723
rejected events	175907	189291	151040	199601
rejected %	51%	88%	56%	73%

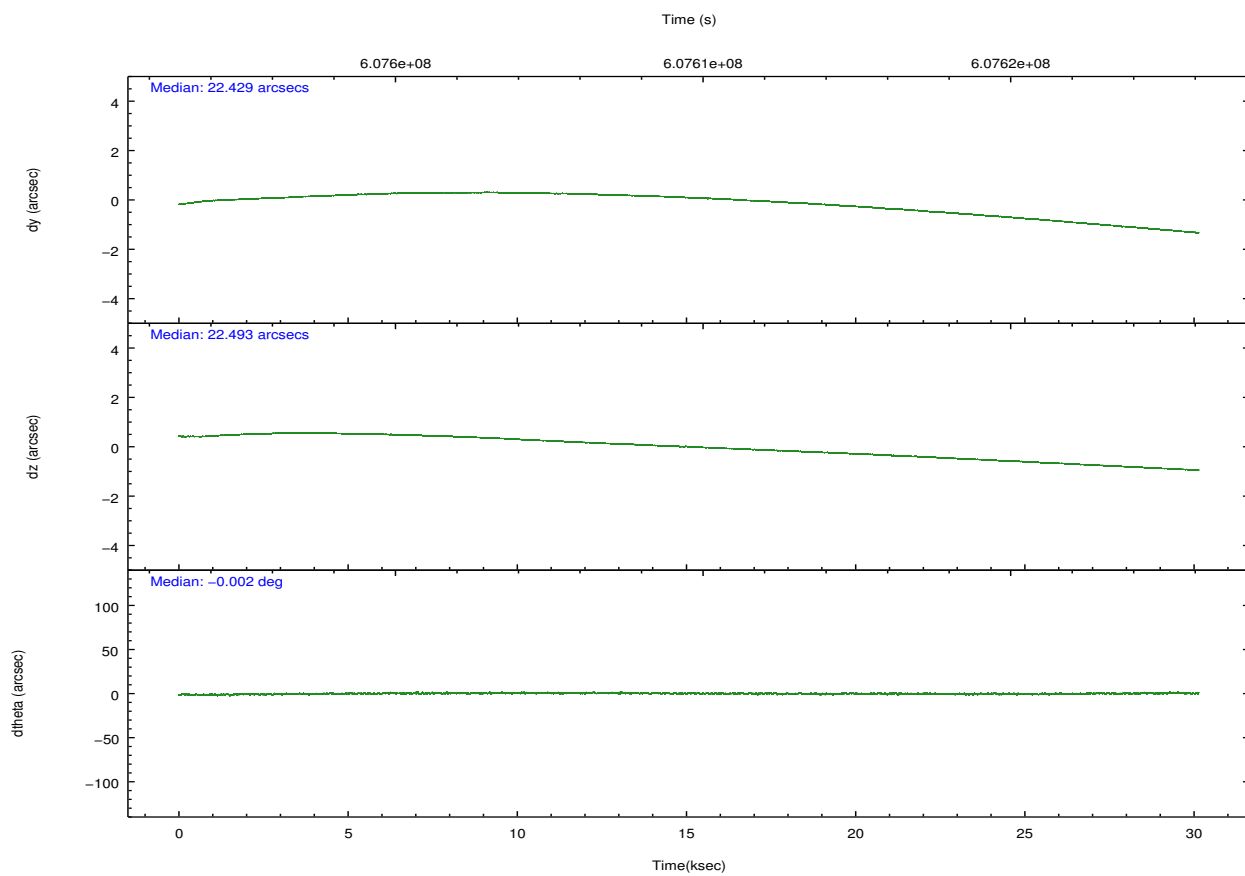
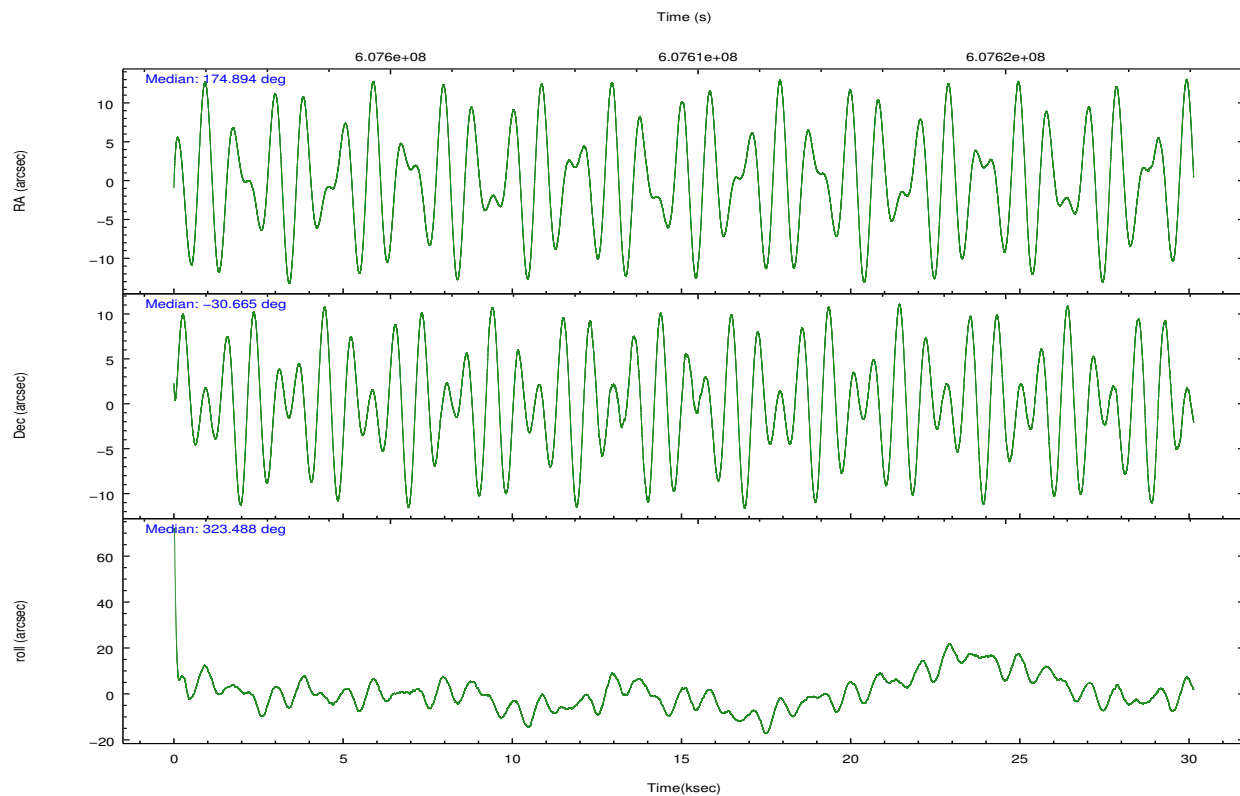
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	18199	8103	9984	20952
	5%	3%	3%	7%
grade 1 events	712	121	362	191
	0%	0%	0%	0%
grade 2 events	51415	5591	25116	17829
	14%	2%	9%	6%
grade 3 events	4822	2373	9414	7687
	1%	1%	3%	2%
grade 4 events	4712	2361	9355	7219
	1%	1%	3%	2%
grade 5 events	23126	10014	26661	14982
	6%	4%	9%	5%
grade 6 events	87849	5800	63960	19459
	25%	2%	23%	7%
grade 7 events	152029	179154	123997	184404
	44%	83%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	174.862415	174.8941716410166	CCD I2 on	O1	N
[deg] Pointing Dec	-30.662769	-30.66549620151671	CCD I3 on	O2	N
[deg] Pointing Roll	323.332306	323.5051607106001	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	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)	607594609.184000	607593623.95072	CCD S5 on	N	N
Observation start date	2017-04-03T08:15:40	2017-04-03T08:00:23	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	607624609.184000	607626098.00261	On-chip summing requested	N	N
Observation end date	2017-04-03T16:35:40	2017-04-03T17:01:38	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



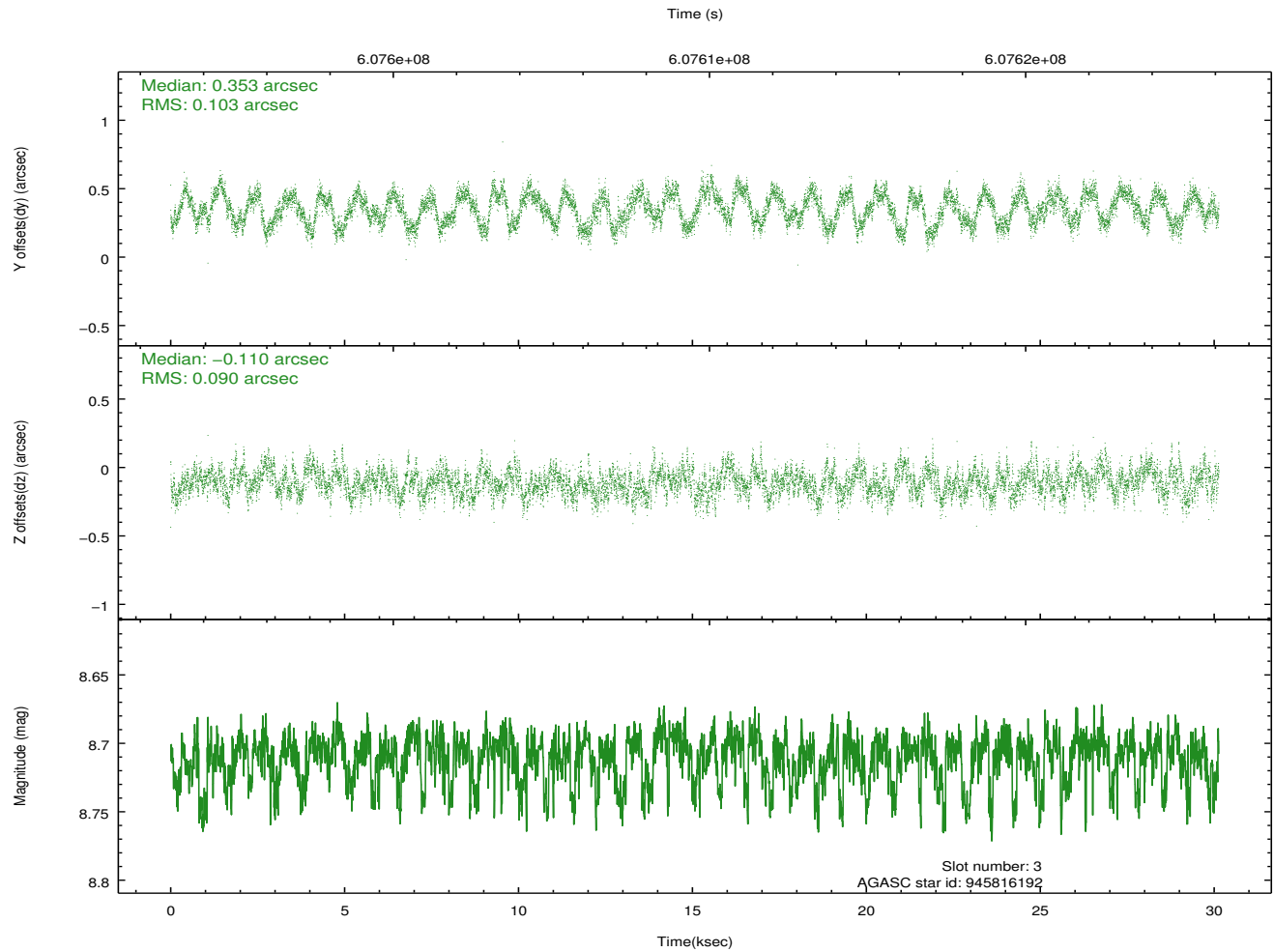
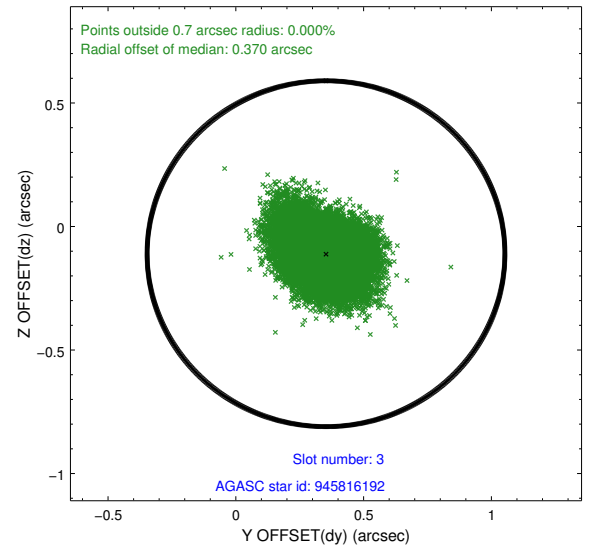
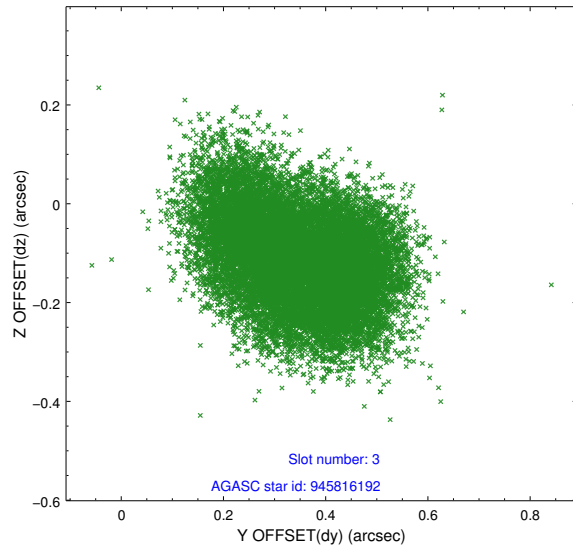


Slot Statistics

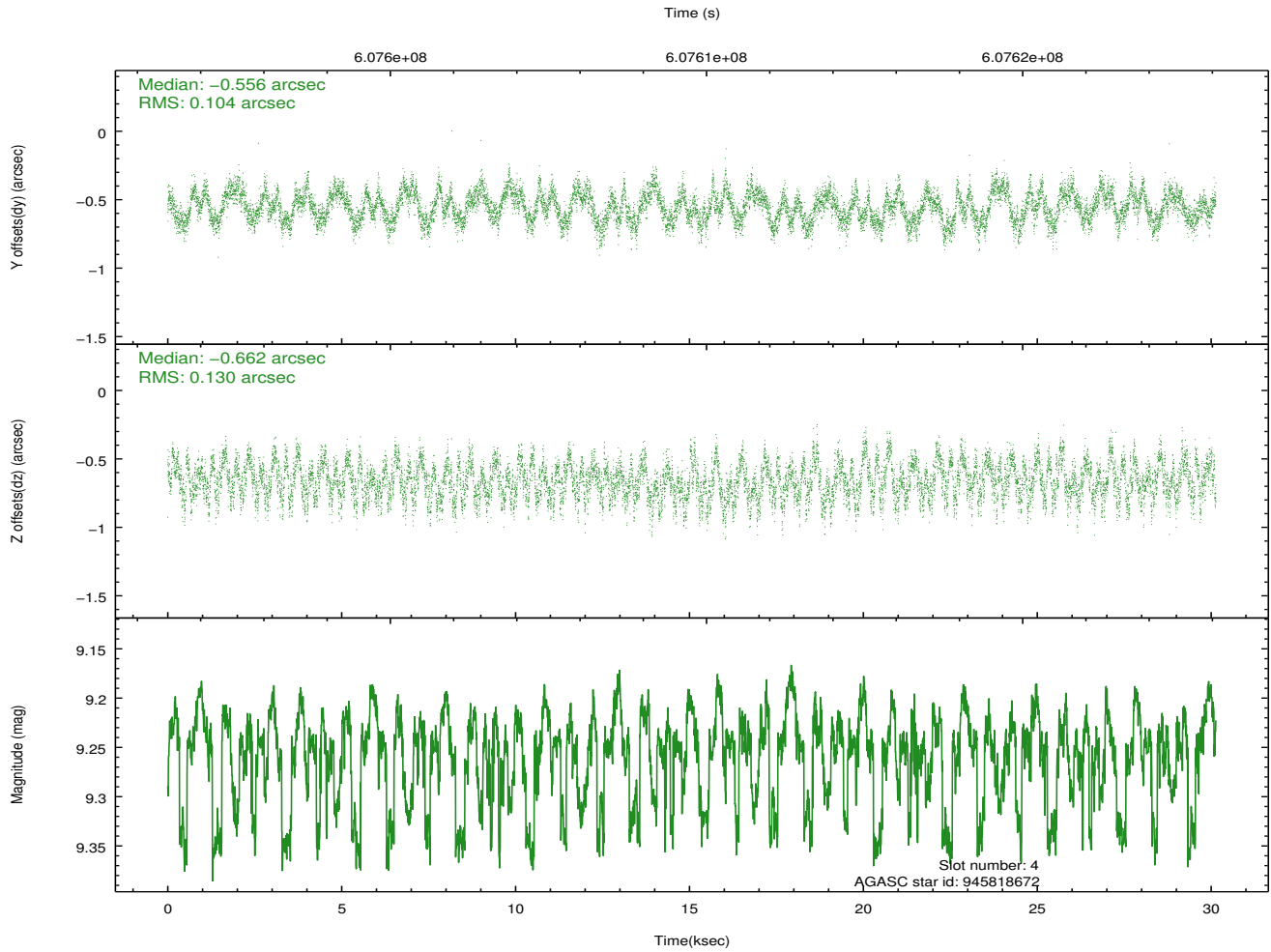
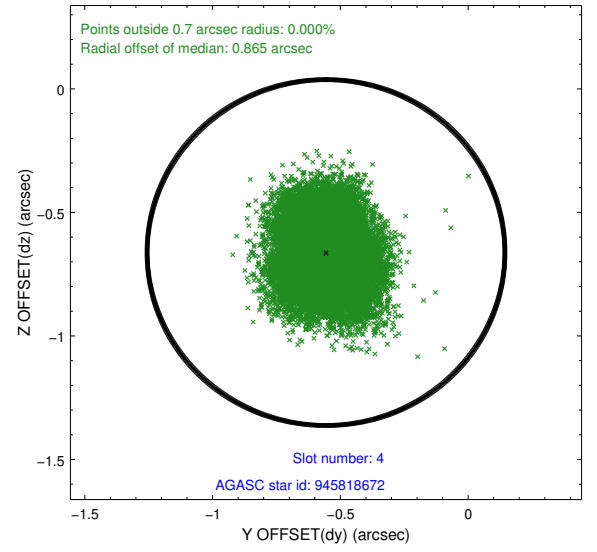
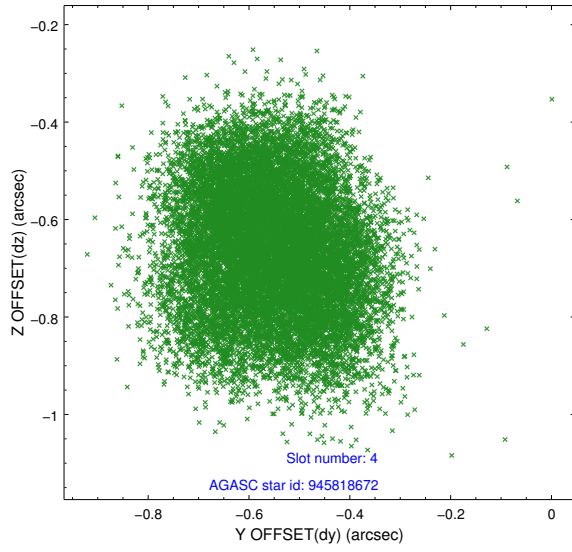
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.03	7351	-0.349	-0.248	0.009	0.014	0.000000	0.000000	-775.82	-1744.24
1	FID		ACIS-S-4	7.13	7350	0.374	0.196	0.010	0.016	0.000000	0.000000	2138.21	164.51
2	FID		ACIS-S-6	7.30	7351	-0.053	0.060	0.011	0.020	0.000000	0.000000	386.63	801.91
3	GUIDE	used	945816192	8.71	14693	0.353	-0.110	0.149	0.227	175.162050	-30.138355	-378.33	2070.01
4	GUIDE	used	945818672	9.25	14685	-0.556	-0.662	0.182	0.275	175.281902	-30.282803	229.84	1873.58
5	GUIDE	used	945819440	8.30	14694	0.230	0.176	0.110	0.186	174.820283	-30.348956	-778.14	828.01
6	GUIDE	used	945824232	8.23	14695	0.049	0.118	0.100	0.169	174.848156	-31.207631	1136.29	-1599.69
7	GUIDE	used	945824304	6.87	14701	-0.073	0.480	0.128	0.207	174.444396	-31.218656	164.84	-2376.83

2.4 Star Slots

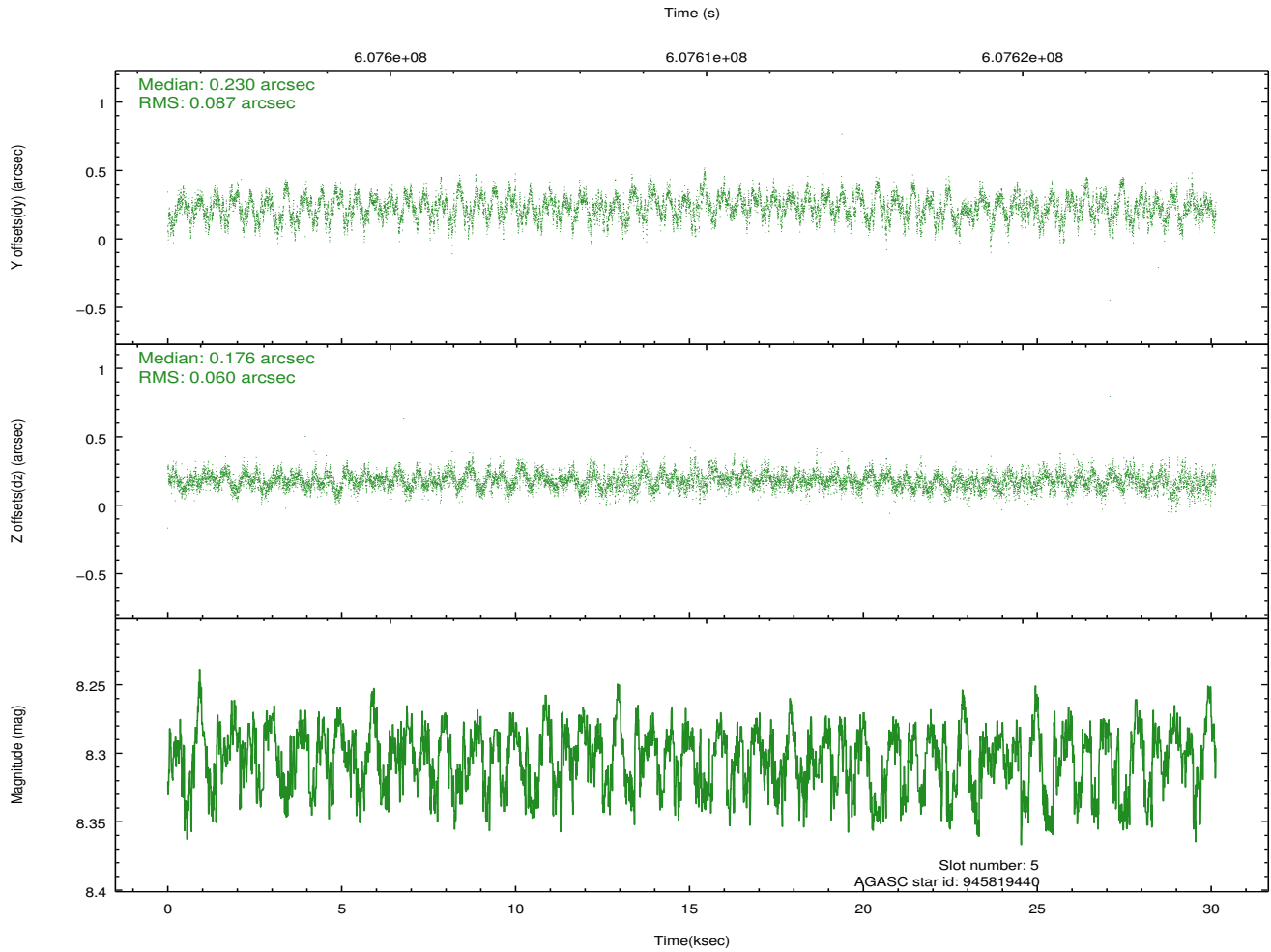
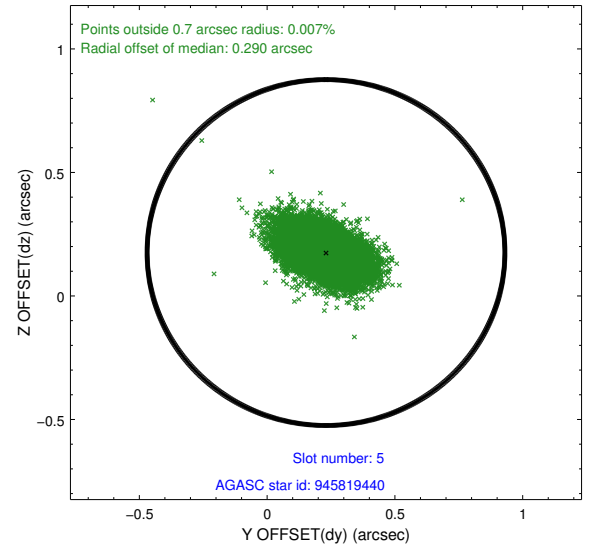
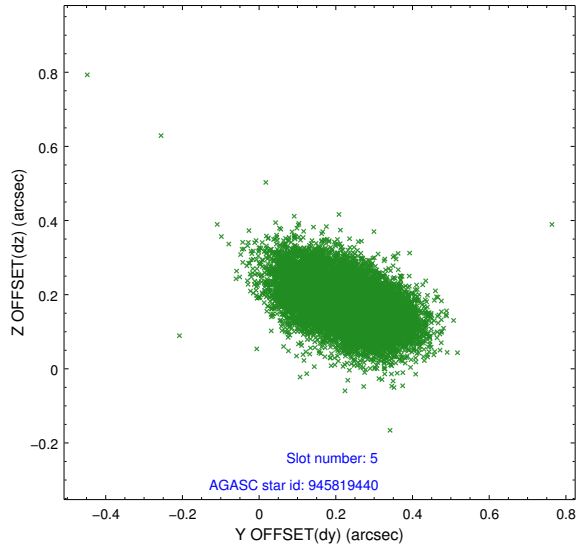
2.4.1 Slot 3



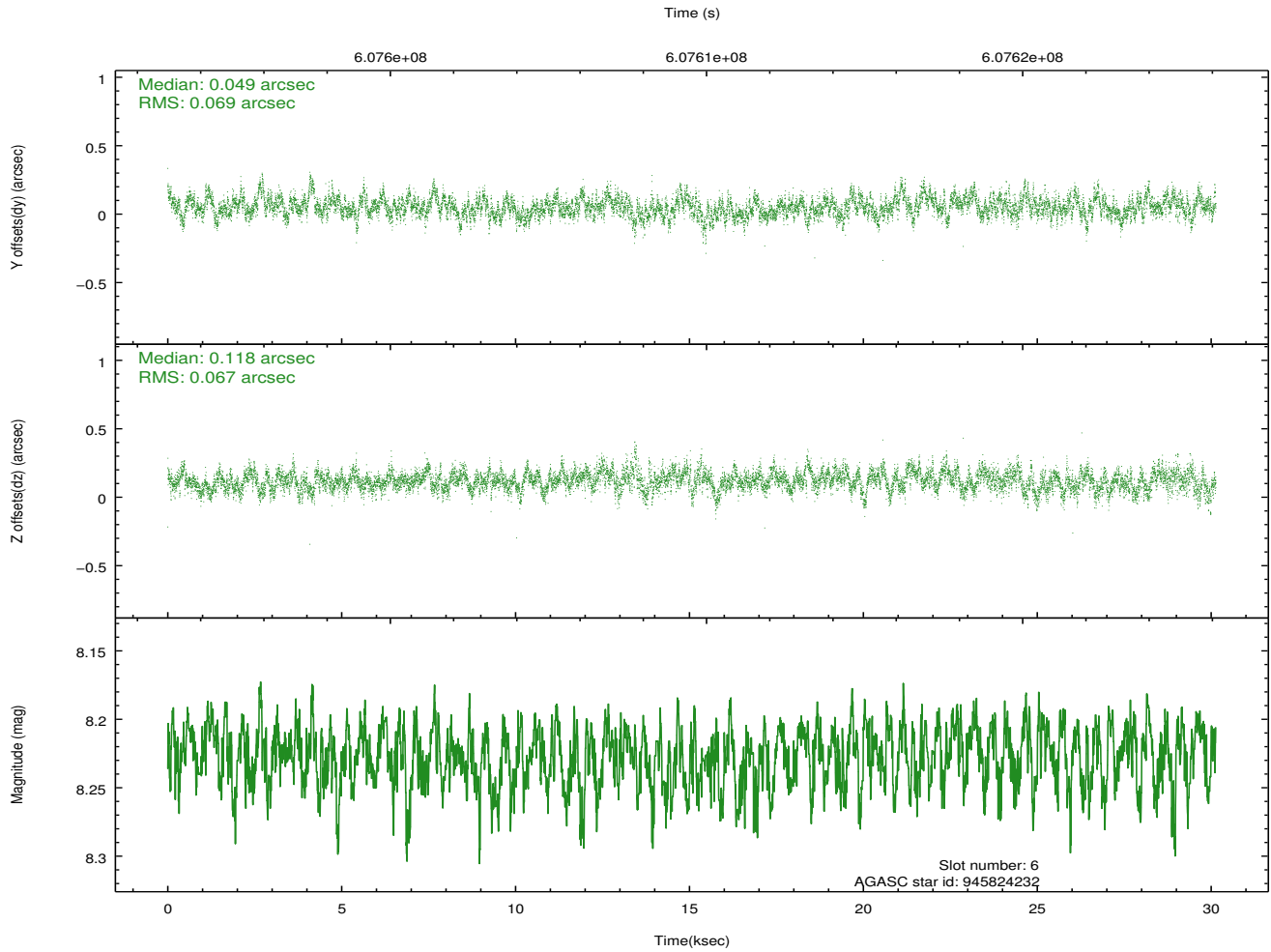
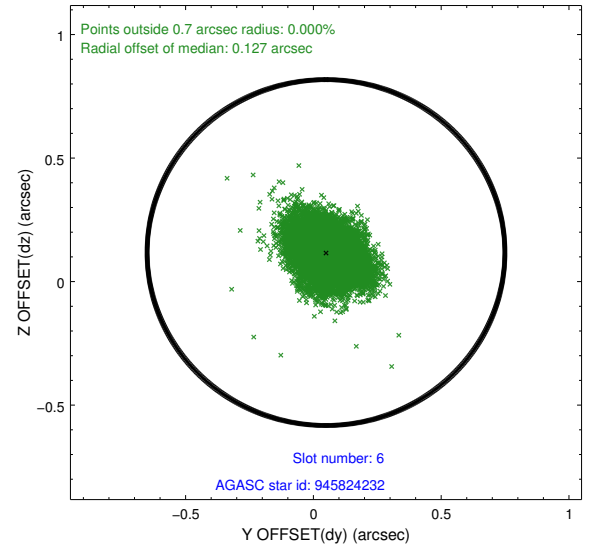
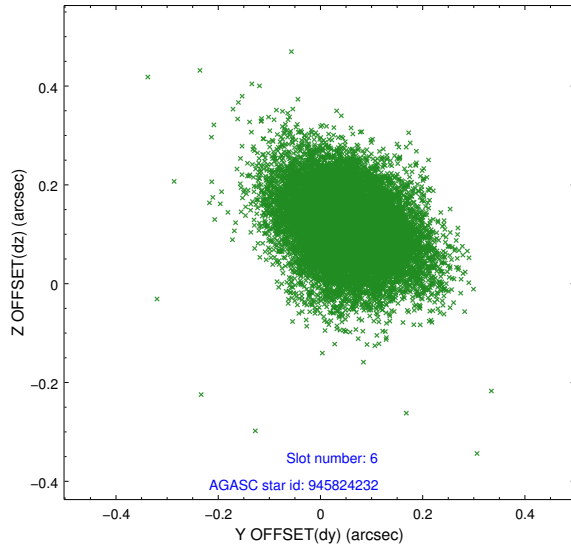
2.4.2 Slot 4



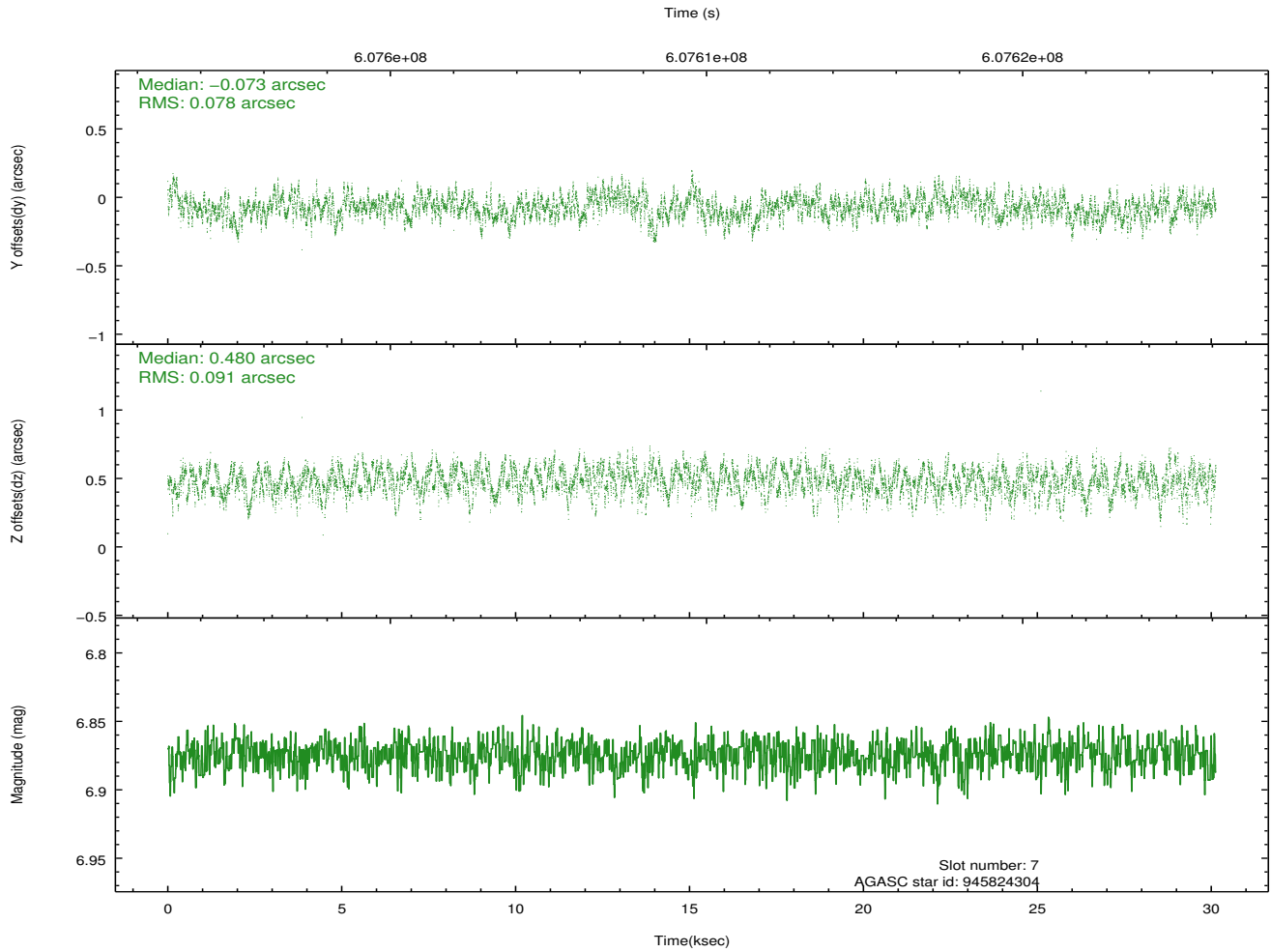
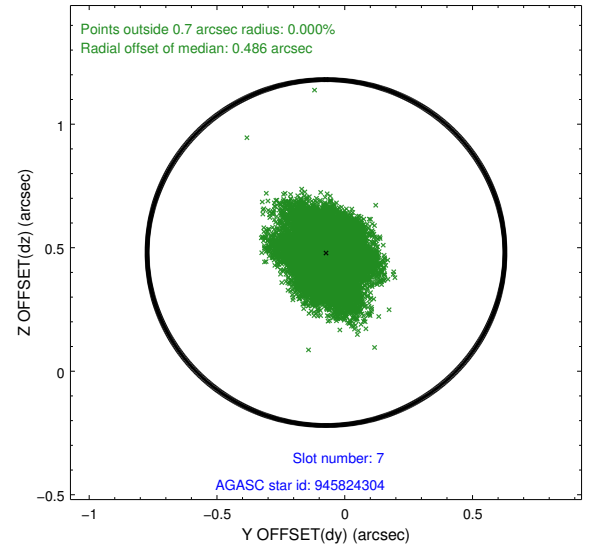
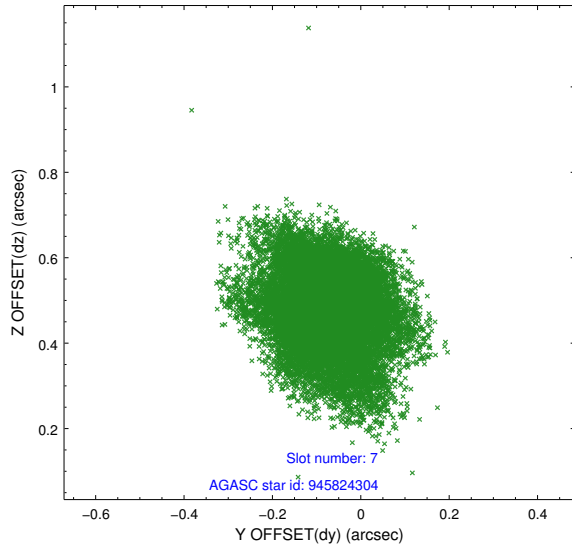
2.4.3 Slot 5



2.4.4 Slot 6

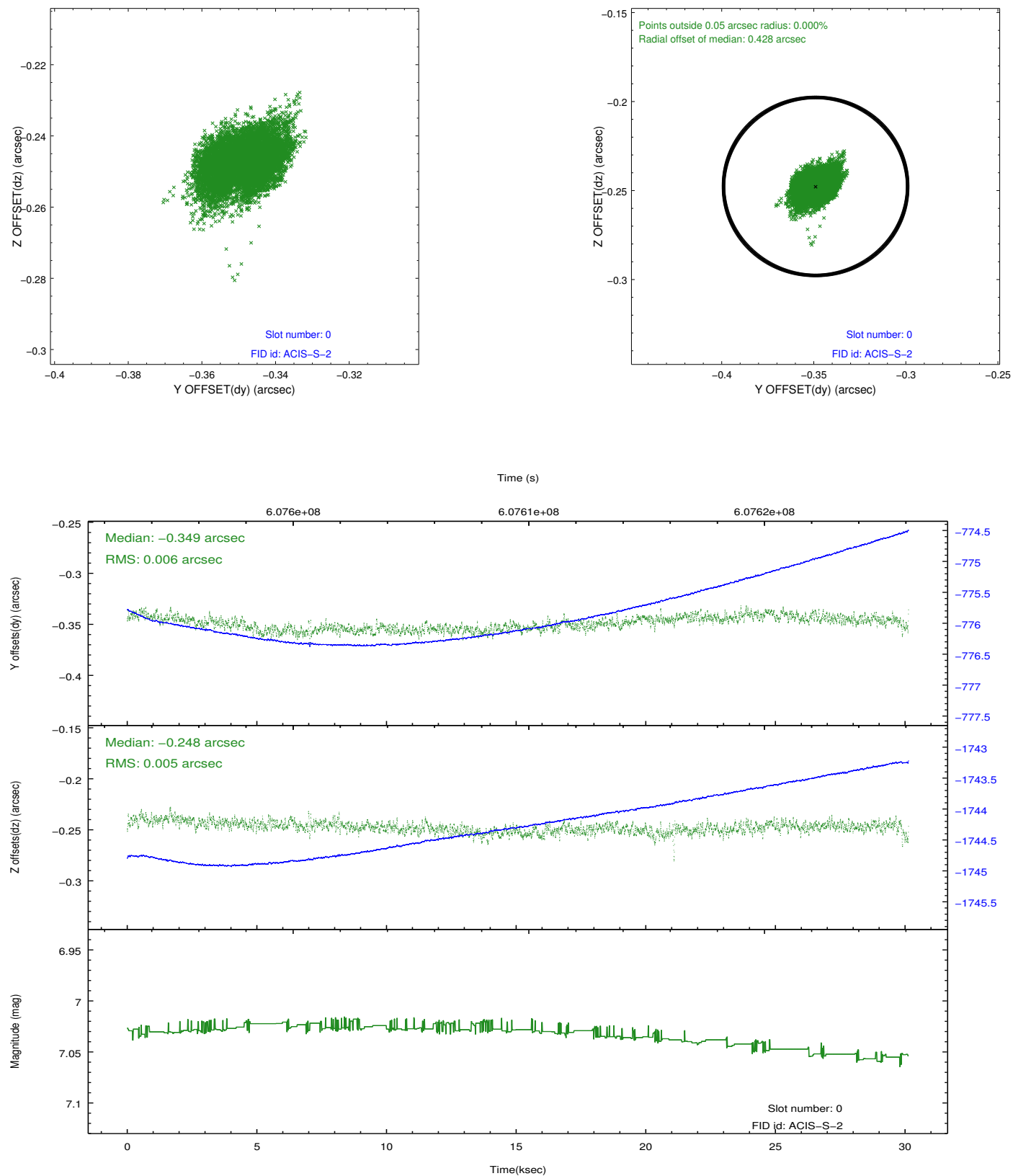


2.4.5 Slot 7

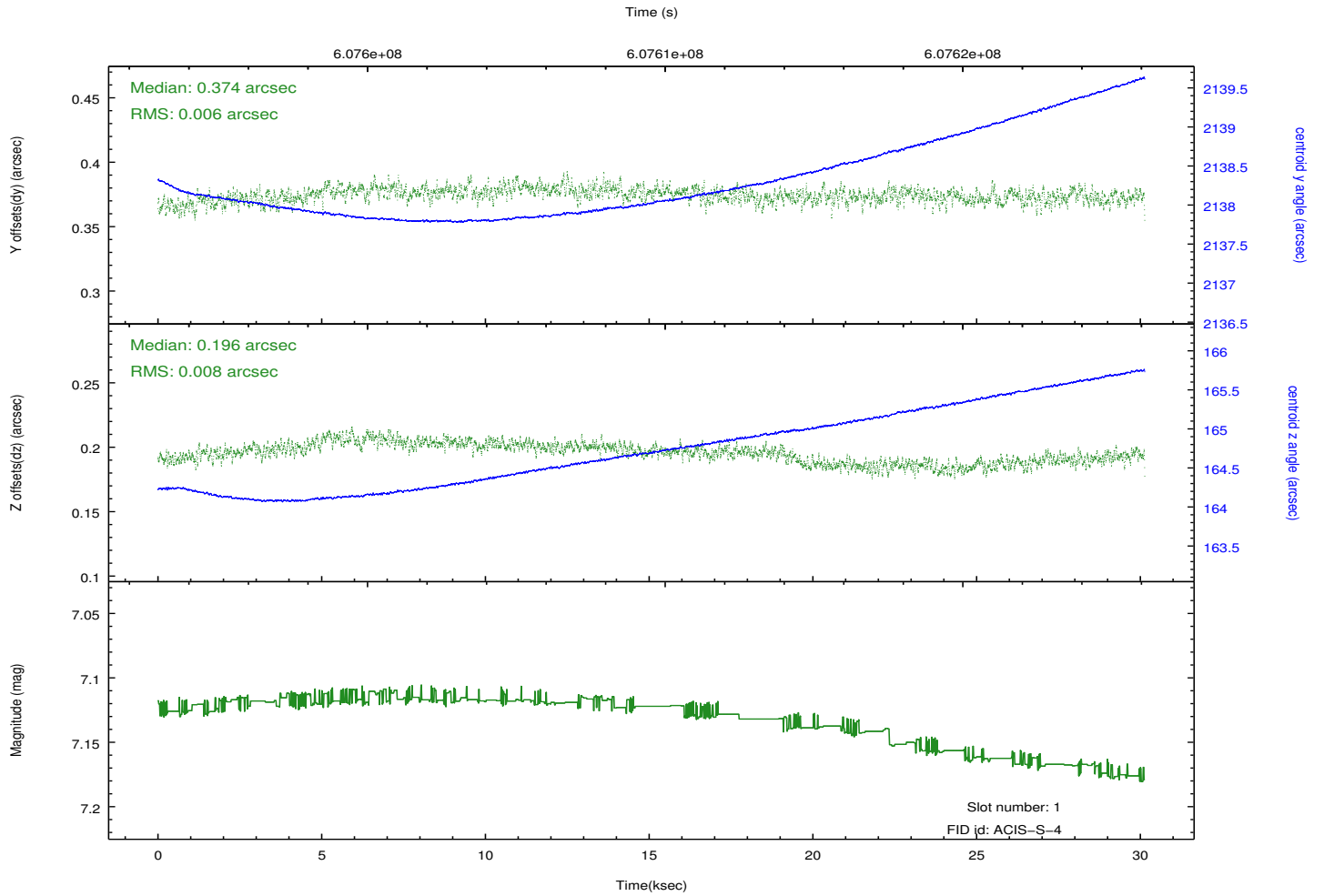
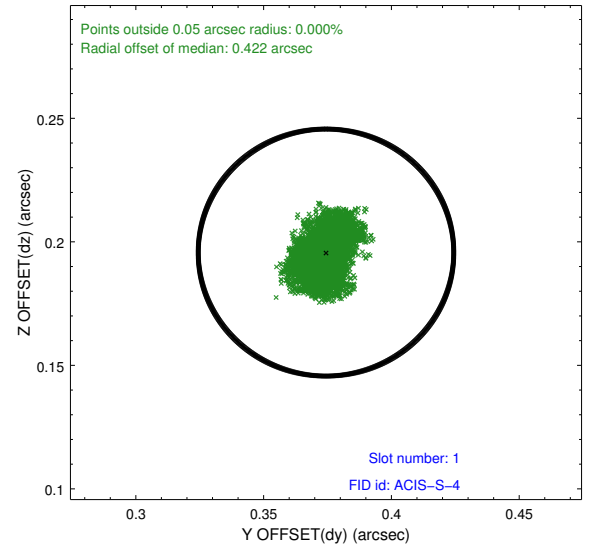
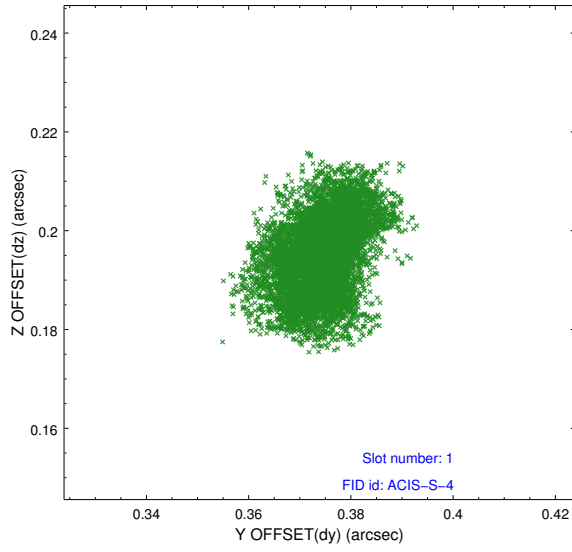


2.5 FID Slots

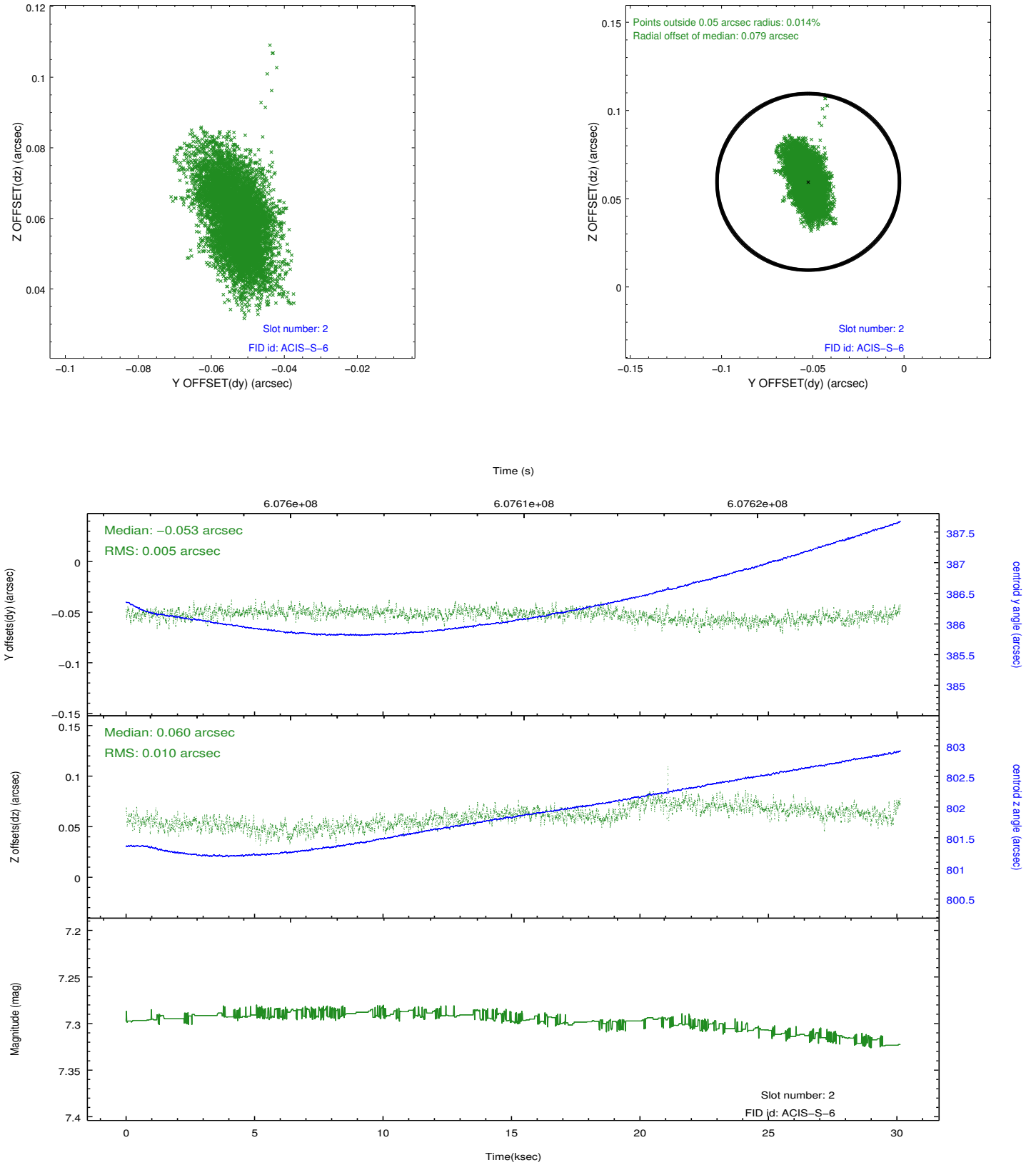
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.063800231338

A.2 Comments