

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10137 - L2 Version 2
Chandra X-Ray Center

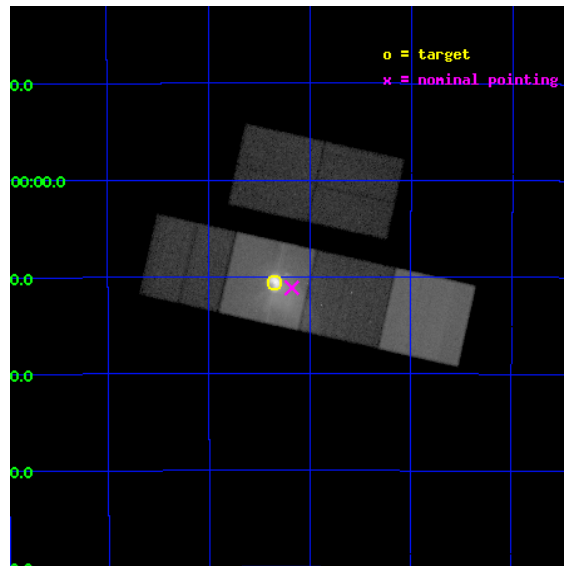
L2 Processing Date : Jun 30 2012

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1 Front

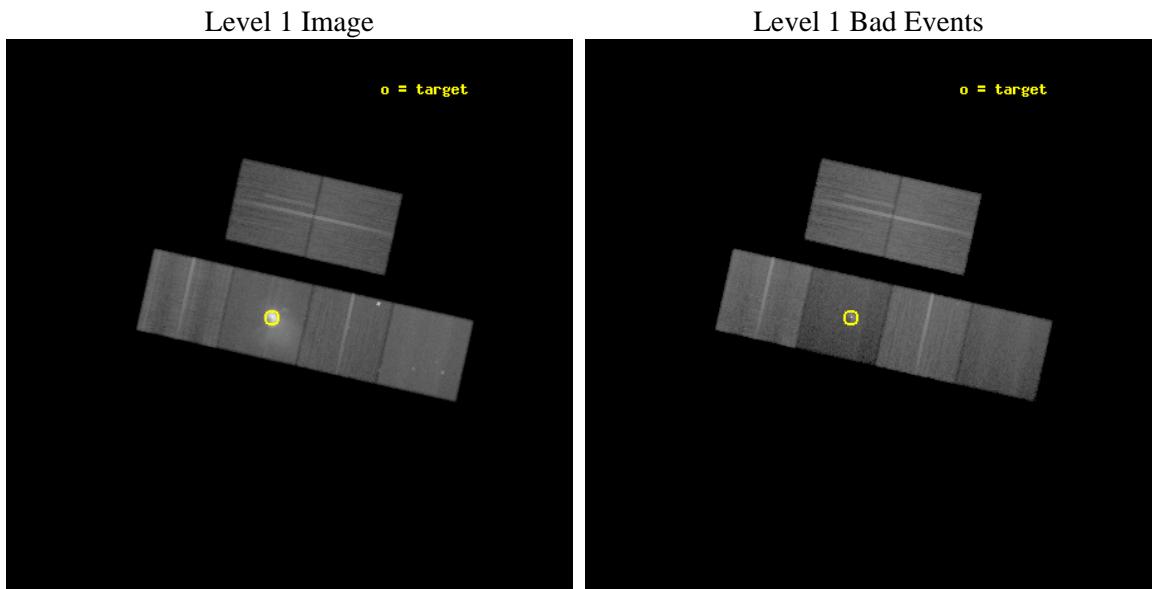
seq_num	501064	Sequence number
obs_id	10137	Observation id
title	The Unique Dynamical Vela Pulsar Wind Nebula	Proposal title
observer	Dr. George Pavlov	Principal investigator
object	Vela PWN	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	128.83625	Observer's specified target RA [deg]
dec_targ	-45.176583	Observer's specified target Dec [deg]
ra_nom	128.79437855347	Nominal RA [deg]
dec_nom	-45.185700387509	Nominal Dec [deg]
roll_nom	192.5691848355	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40047.999850869	Sum of GTIs [s]
livetime	39540.887962747	Livetime [s]
ontime2	40047.999850869	Sum of GTIs [s]
ontime3	40047.999850869	Sum of GTIs [s]
ontime5	40047.999850869	Sum of GTIs [s]
ontime6	40047.999850869	Sum of GTIs [s]
ontime7	40047.999850869	Sum of GTIs [s]
ontime8	40047.999850869	Sum of GTIs [s]
l2events	1018184	Number of level 2 events



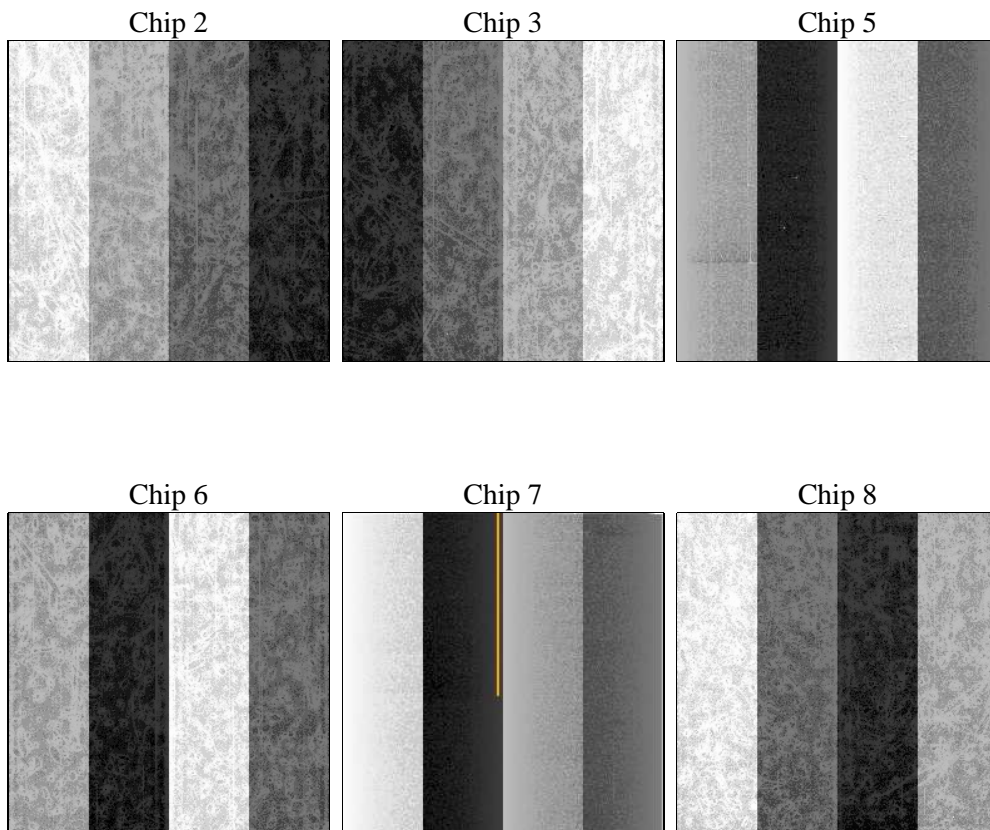
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	40047.999850869	Sum of GTIs [s]
caldbver	4.5.0	 	ontime2	40047.999850869	Sum of GTIs [s]
date	2012-06-30T15:06:03	Date and time of file creation	ontime3	40047.999850869	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	40047.999850869	Sum of GTIs [s]
			ontime6	40047.999850869	Sum of GTIs [s]
			ontime7	40047.999850869	Sum of GTIs [s]
			ontime8	40047.999850869	Sum of GTIs [s]
			l1events	2353349	Number of level 1 events

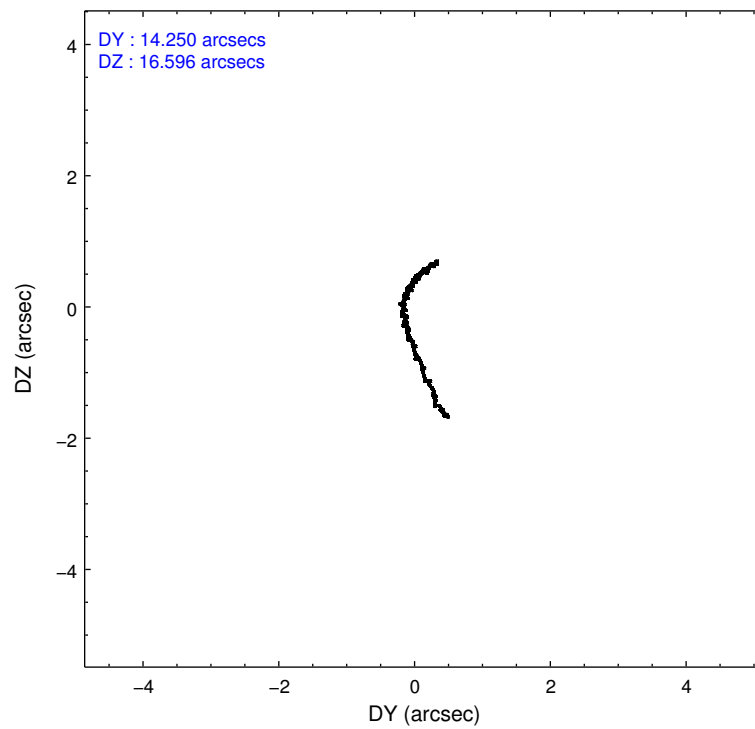
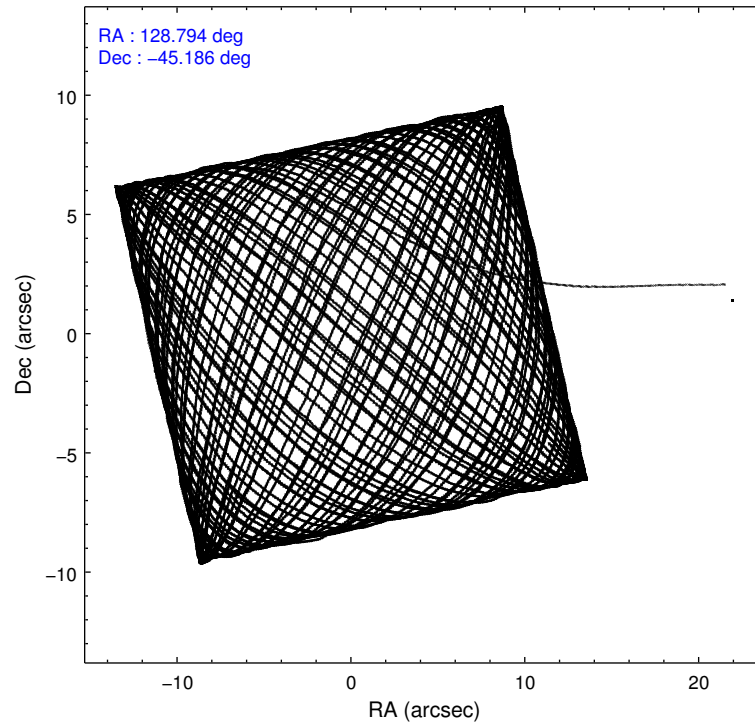
2.1.4 Events

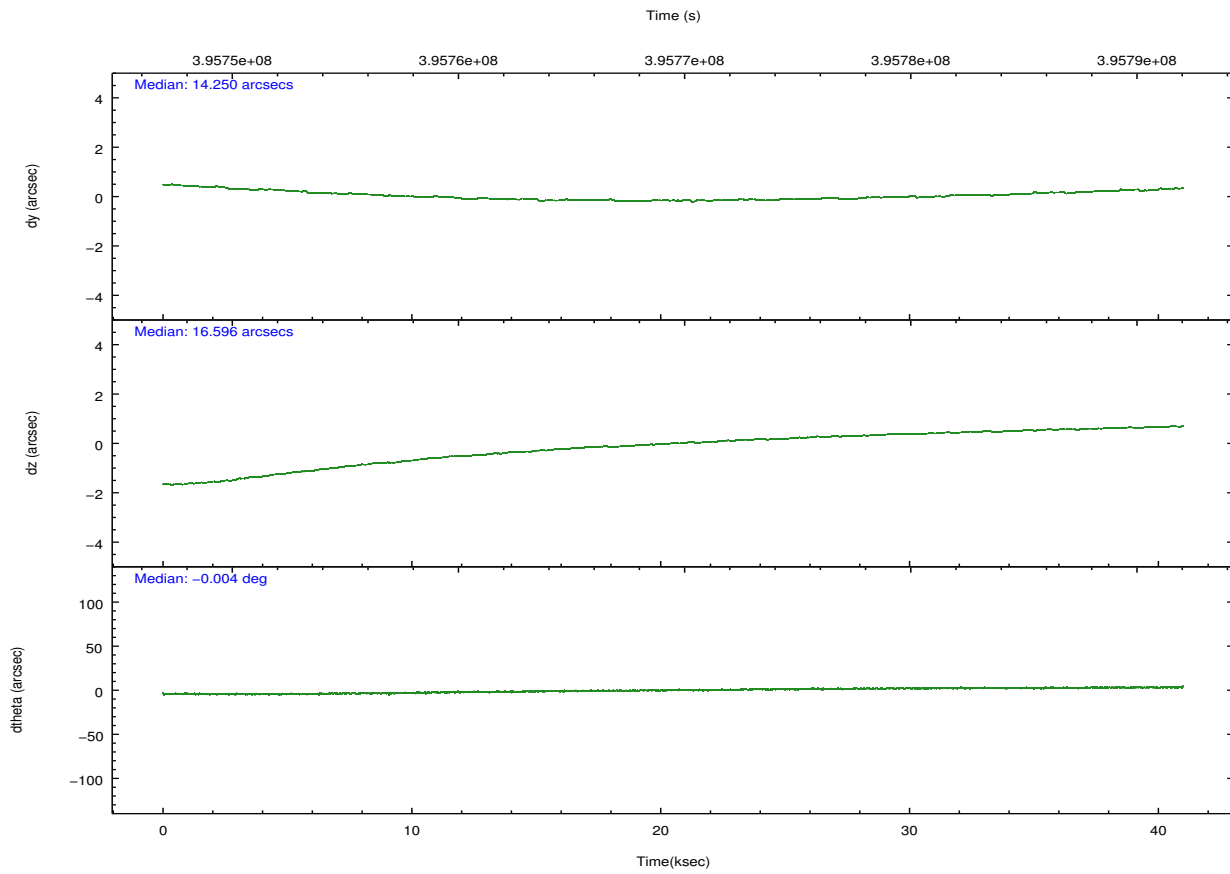
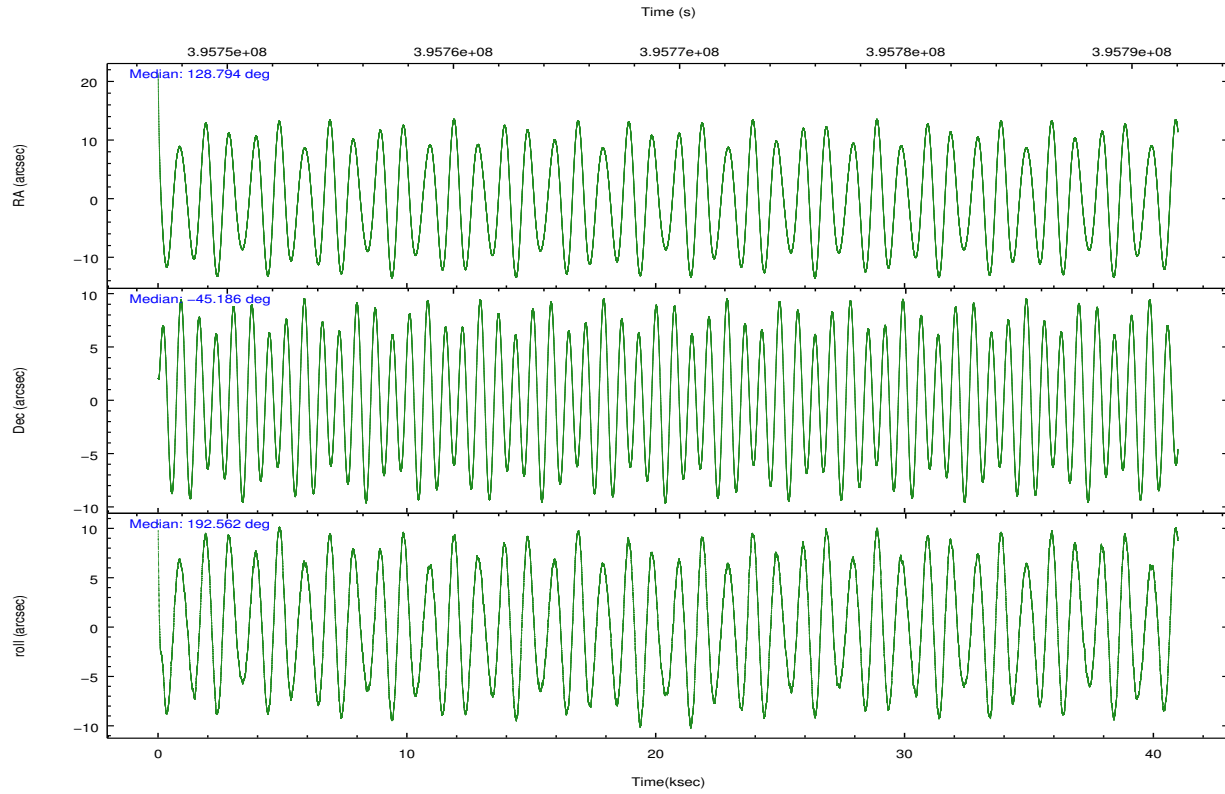
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	303269	275245	359937	317731	743724	353443	grade 0 events	25843	25278	42713	46675	175831	46506
rejected events	258950	232444	135841	235932	123868	237391		8%	9%	11%	14%	23%	13%
rejected %	85%	84%	37%	74%	16%	67%	grade 1 events	286	239	697	299	1641	373
								0%	0%	0%	0%	0%	0%
							grade 2 events	7879	6761	67334	21443	156447	24365
								2%	2%	18%	6%	21%	6%
							grade 3 events	2992	3127	12440	3845	66818	10338
								0%	1%	3%	1%	8%	2%
							grade 4 events	3126	3043	11945	3781	65878	9629
								1%	1%	3%	1%	8%	2%
							grade 5 events	6962	7987	25877	8086	29330	12951
								2%	2%	7%	2%	3%	3%
							grade 6 events	4484	4595	89682	6065	154930	25220
								1%	1%	24%	1%	20%	7%
							grade 7 events	251697	224215	109249	227537	92849	224061
								82%	81%	30%	71%	12%	63%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	128.822580	128.7943785534723	CCD I2 on	O2	Y
[deg] Pointing Dec	-45.166937	-45.18570038750897	CCD I3 on	Y	Y
[deg] Pointing Roll	192.432566	192.5691848354987	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)	395749978.184000	395747982.65354	CCD S5 on	N	N
Observation start date	2010-07-17T10:31:52	2010-07-17T09:59:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	395789978.184000	395790931.69323	On-chip summing requested	N	N
Observation end date	2010-07-17T21:38:32	2010-07-17T21:55:31	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



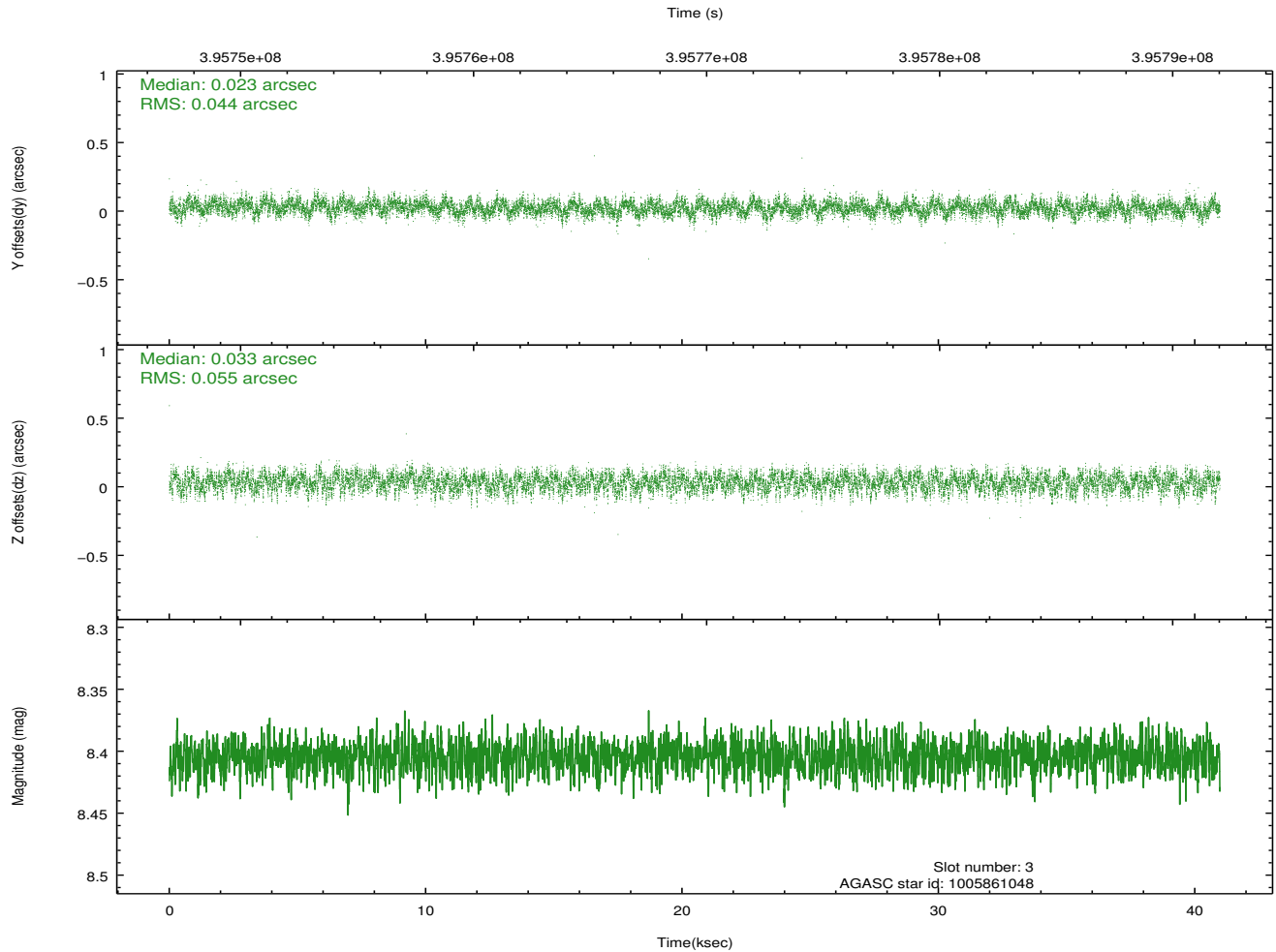
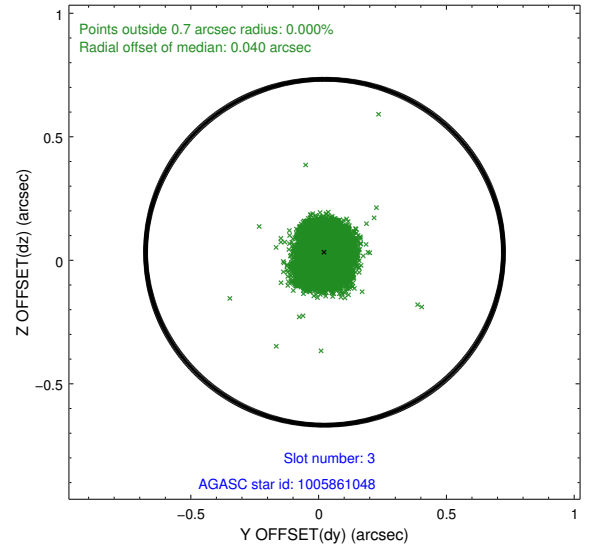
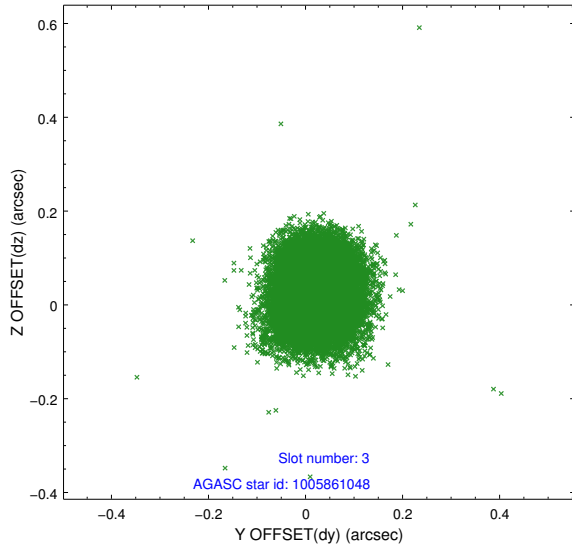


Slot Statistics

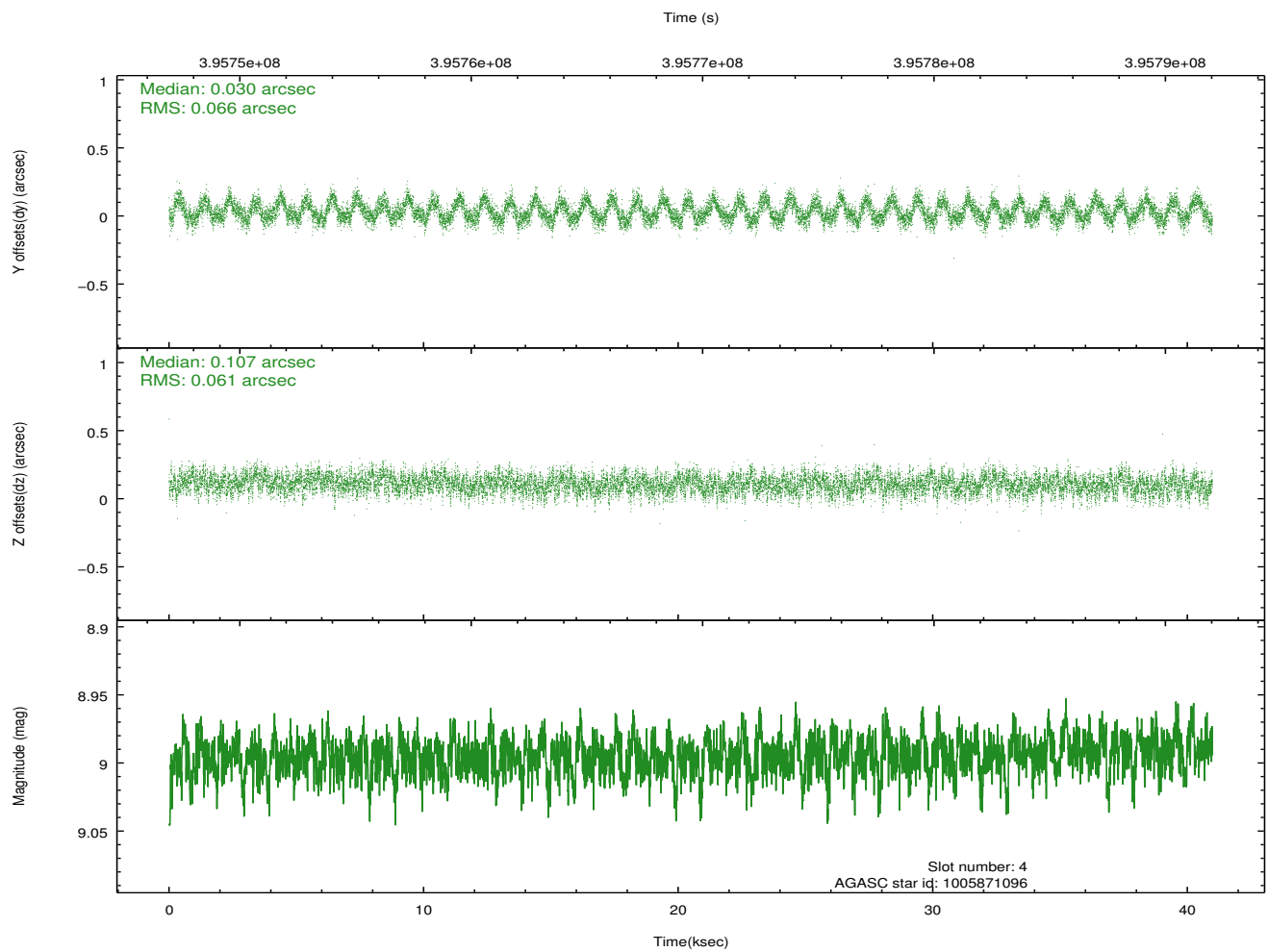
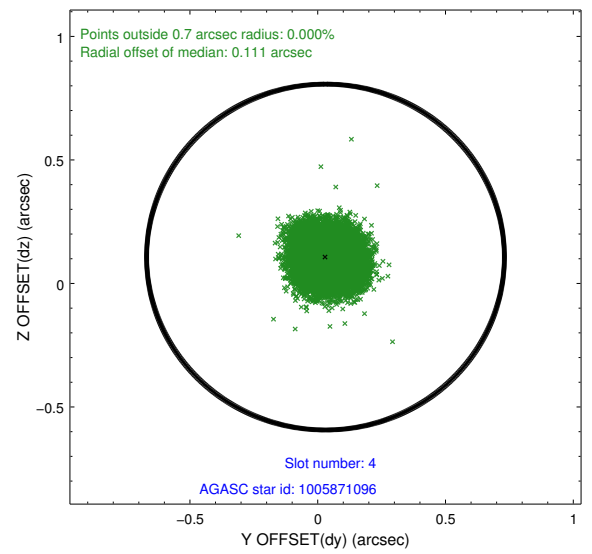
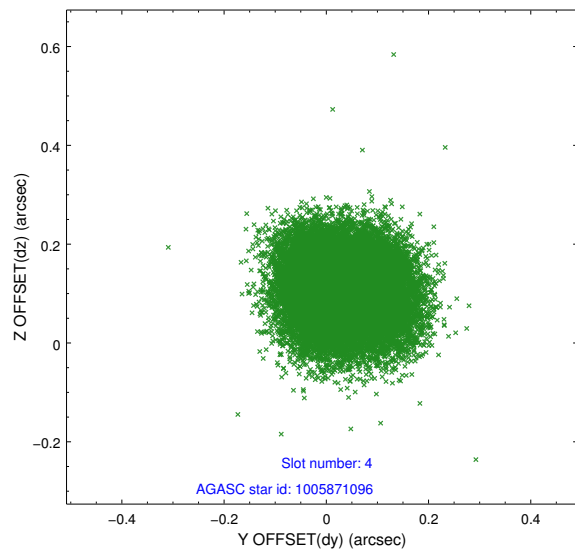
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.97	9996	0.064	-0.074	0.019	0.066	0.000000	0.000000	928.82	-1733.54
1	FID	ACIS-S-4	6.99	9995	0.145	0.023	0.015	0.024	0.000000	0.000000	2146.34	170.68
2	FID	ACIS-S-5	7.01	9994	-0.234	0.063	0.013	0.045	0.000000	0.000000	-1820.30	164.36
3	GUIDE	1005861048	8.40	19983	0.023	0.033	0.076	0.121	128.669106	-44.528323	-109.58	-2329.36
4	GUIDE	1005871096	9.00	19970	0.030	0.107	0.098	0.150	128.774147	-44.764566	-190.63	-1440.79
5	GUIDE	1068263200	9.12	19975	0.008	-0.149	0.103	0.162	128.222628	-45.344390	1621.44	302.61
6	GUIDE	1068270344	8.52	19979	-0.023	0.108	0.066	0.106	128.097487	-45.785157	2258.91	1790.06
7	GUIDE	1005871784	7.99	19984	-0.043	-0.094	0.072	0.115	128.533947	-44.544833	241.97	-2344.96

2.4 Star Slots

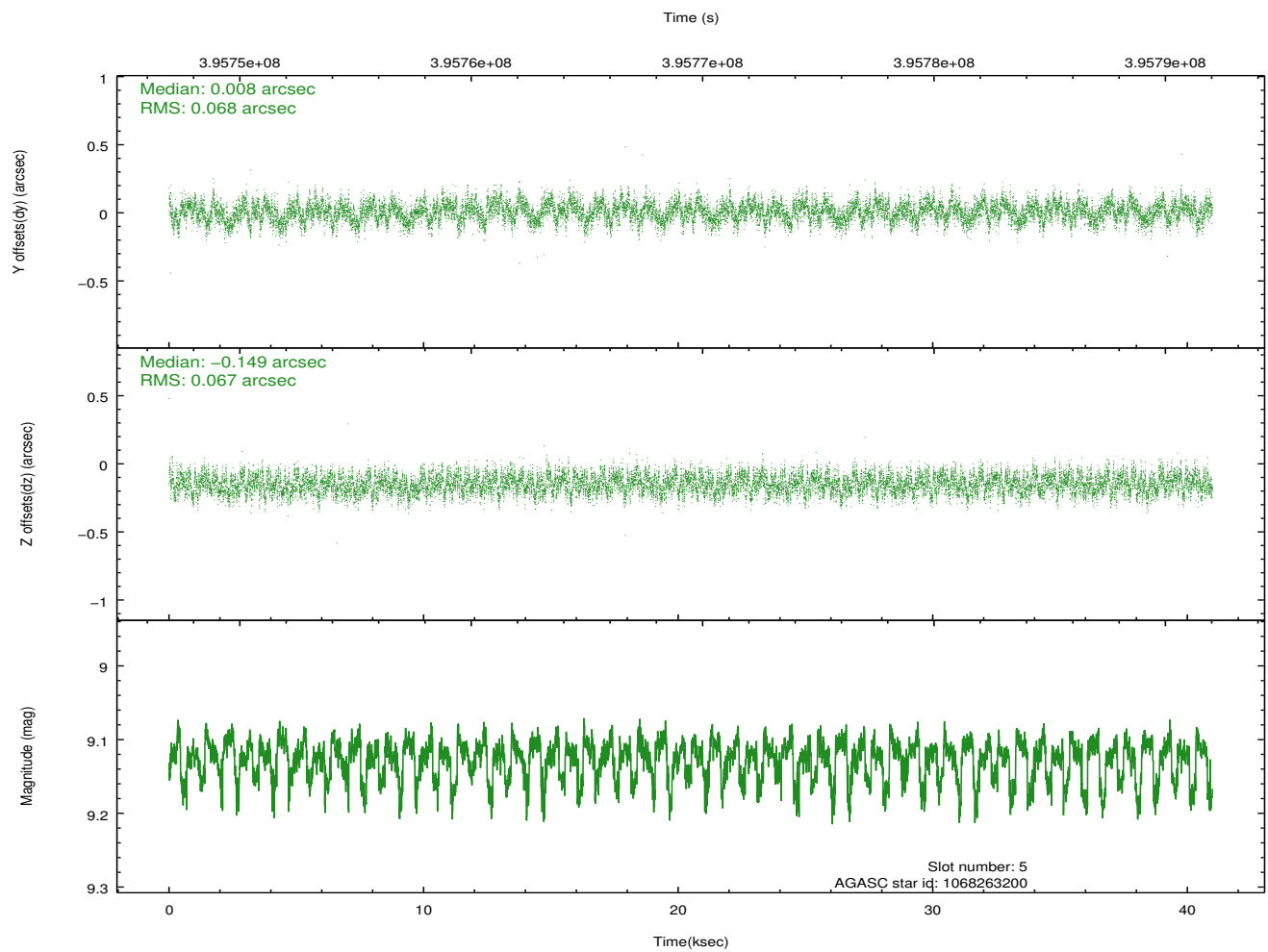
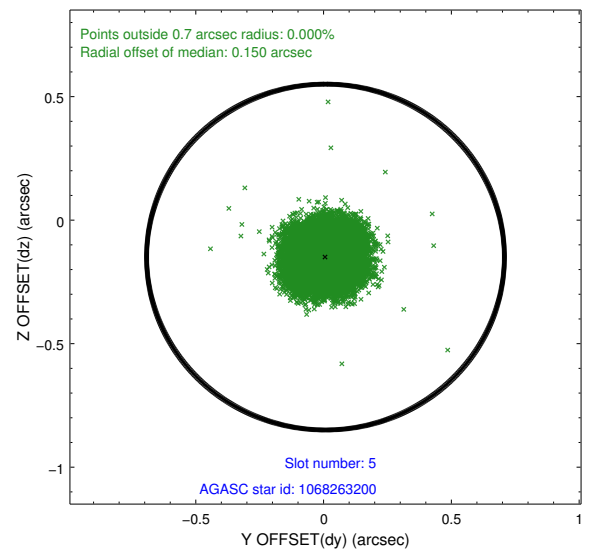
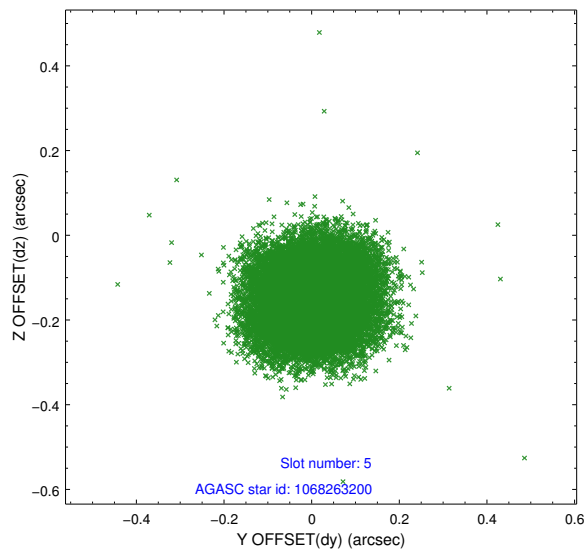
2.4.1 Slot 3



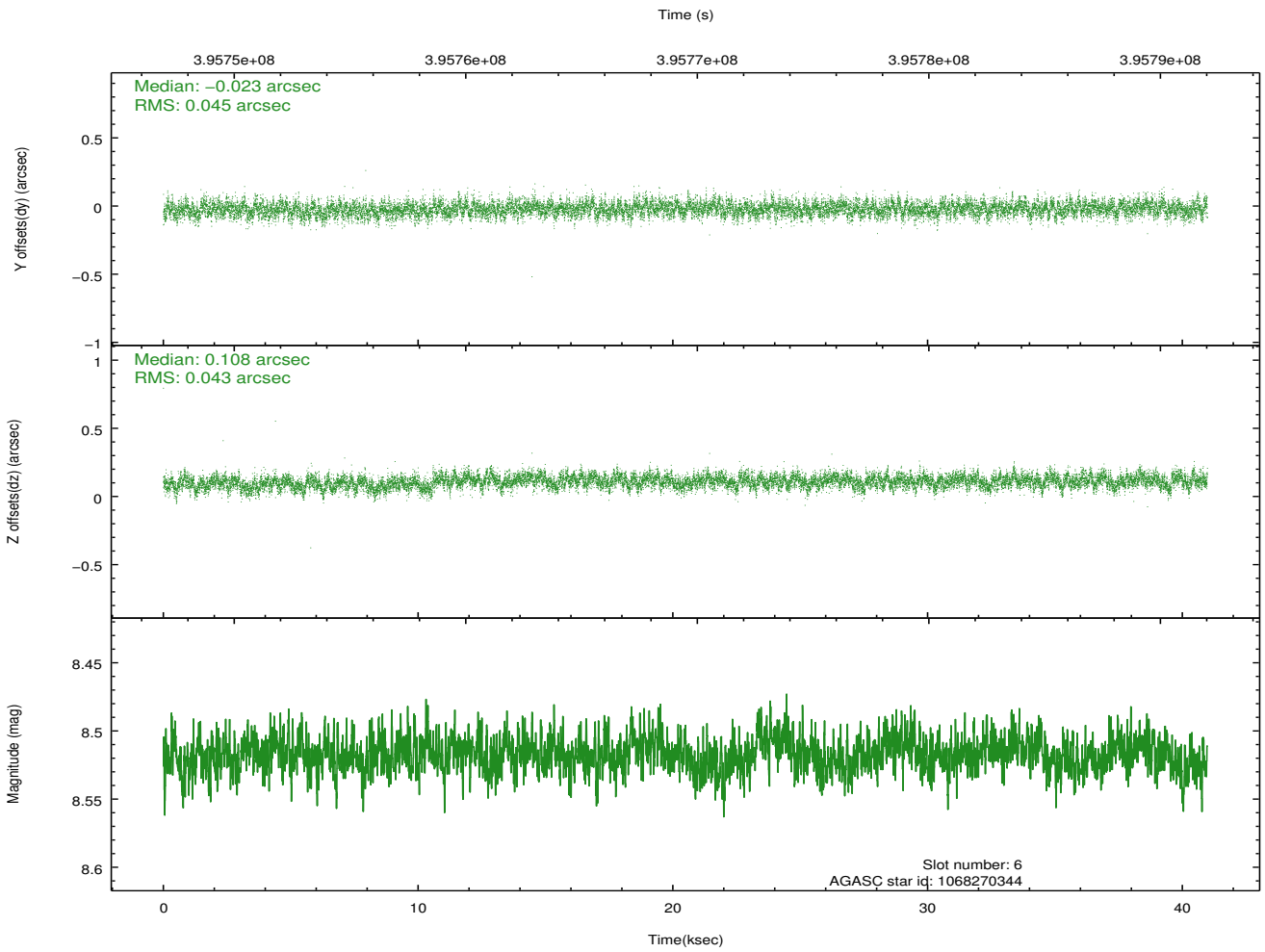
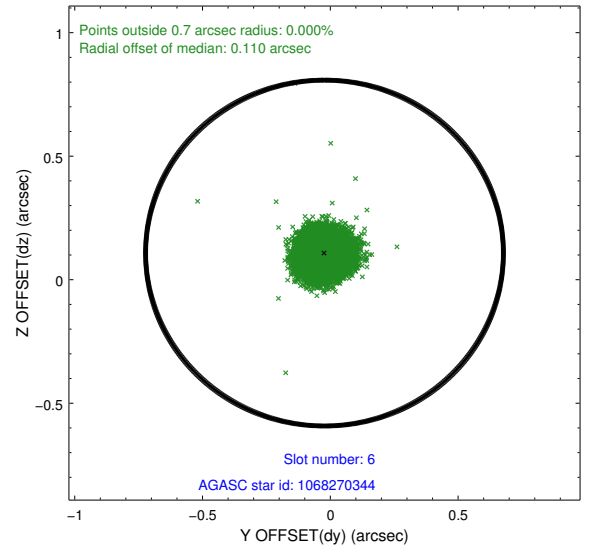
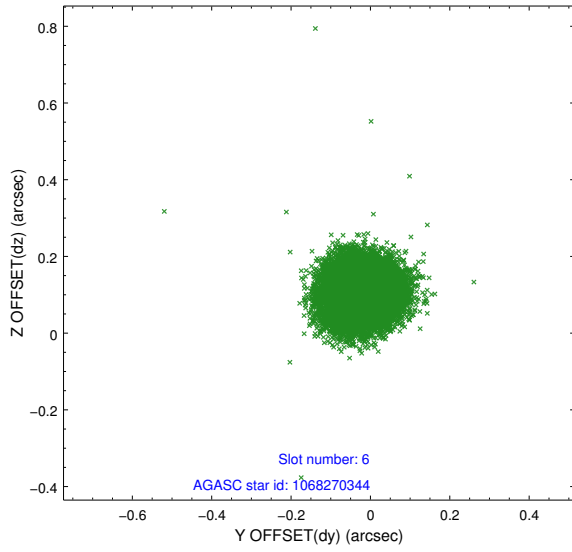
2.4.2 Slot 4



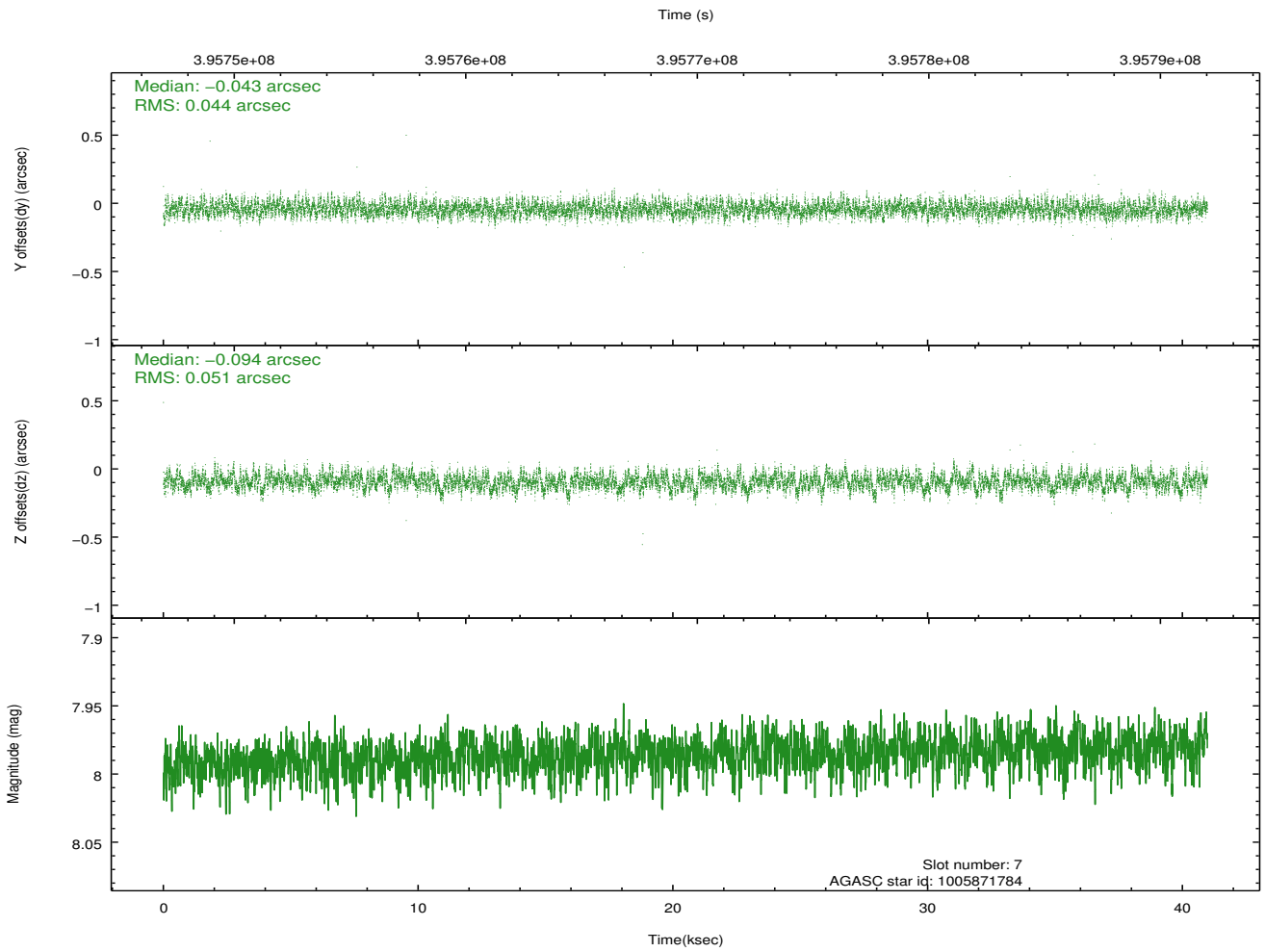
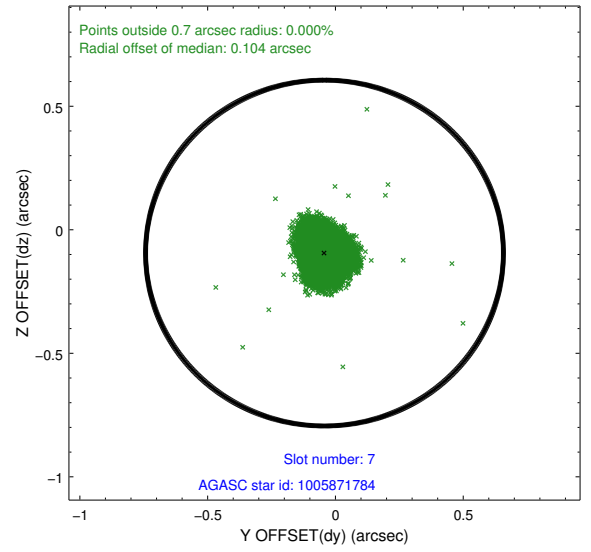
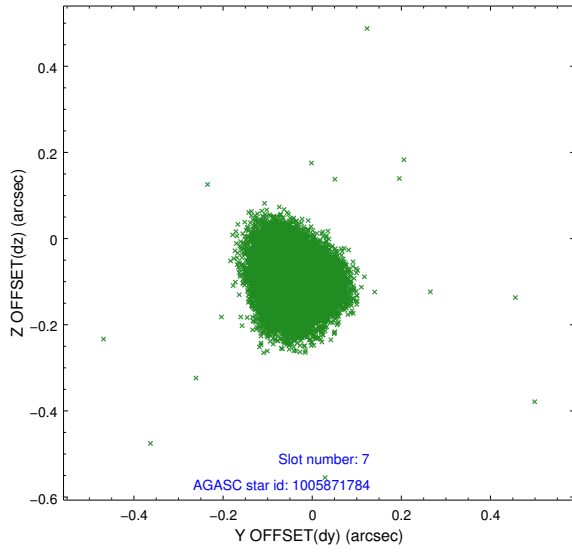
2.4.3 Slot 5



2.4.4 Slot 6

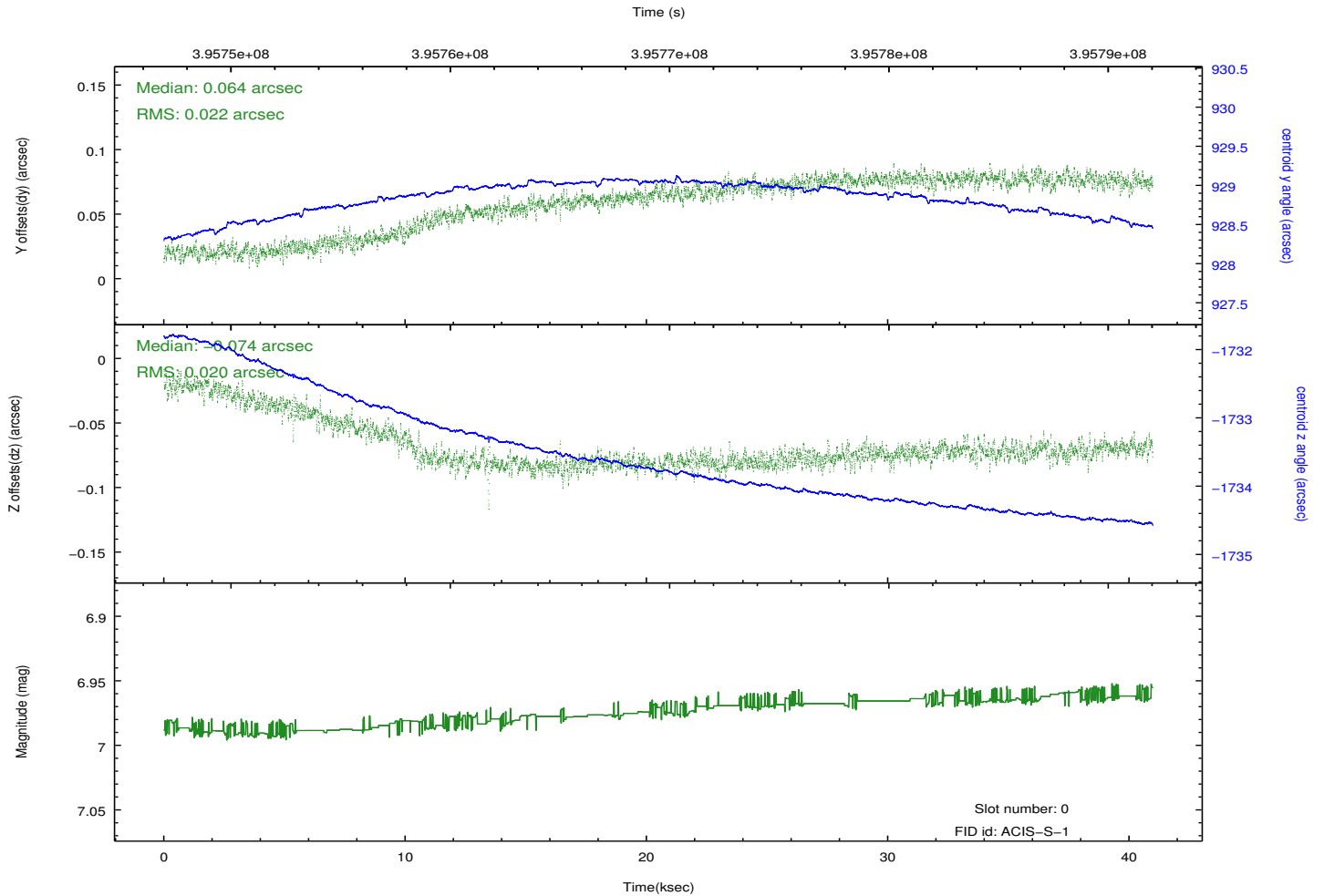
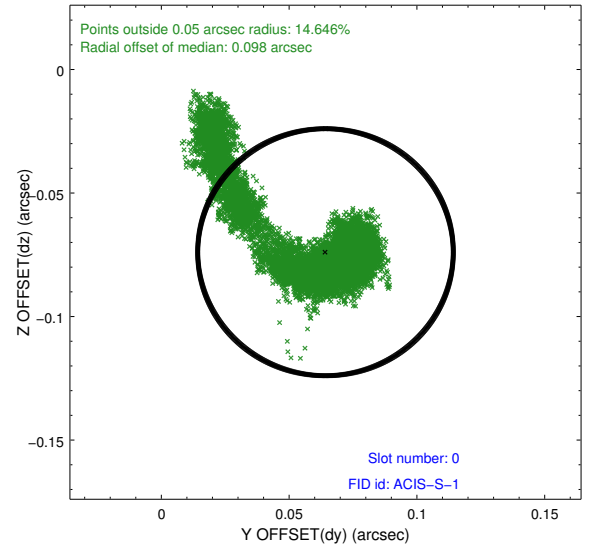
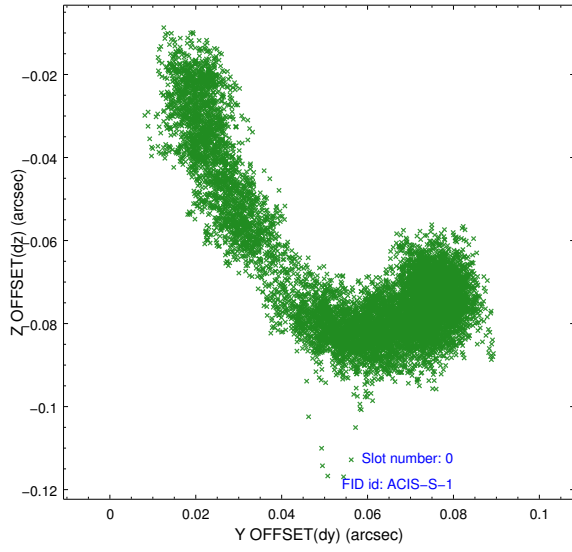


2.4.5 Slot 7

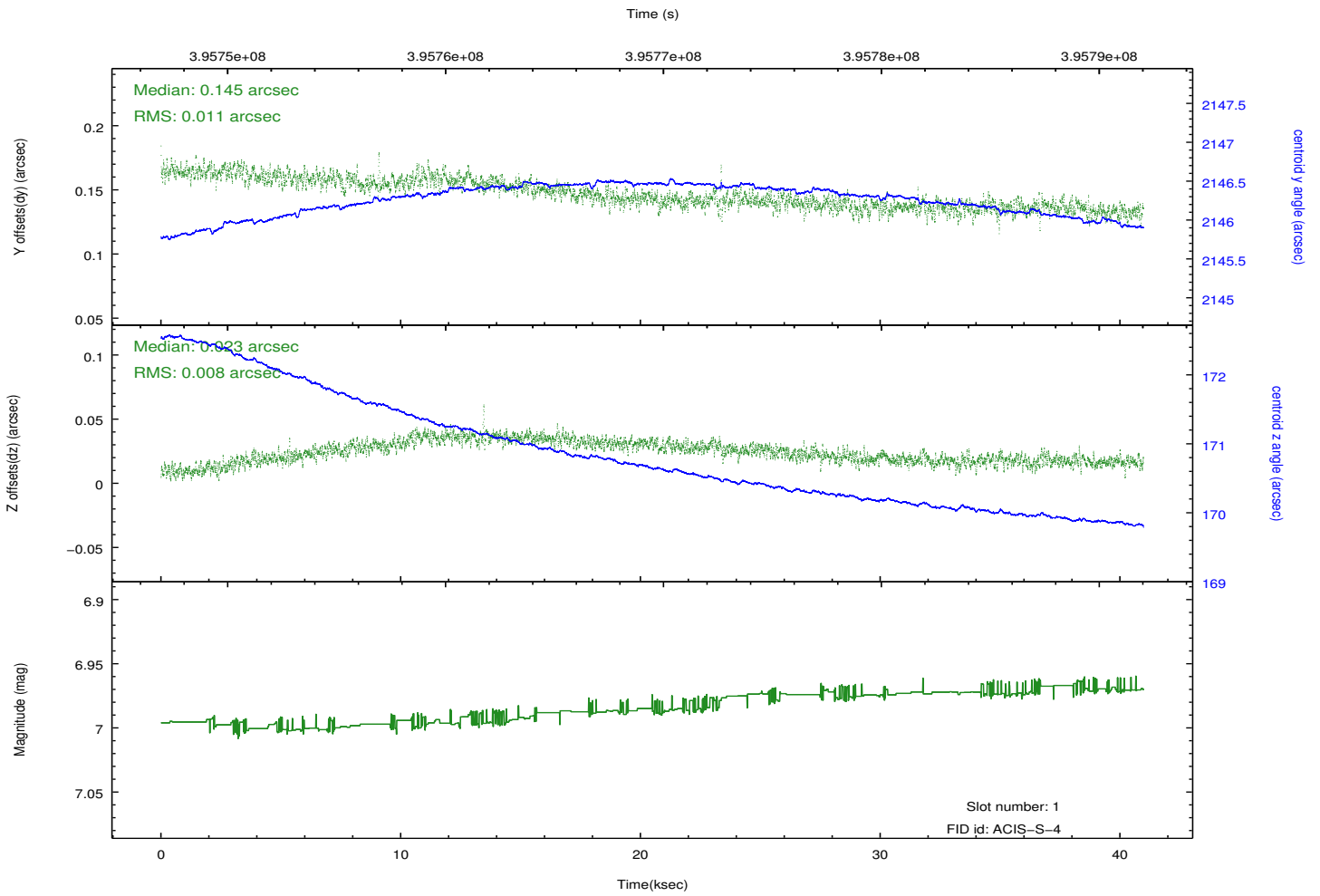
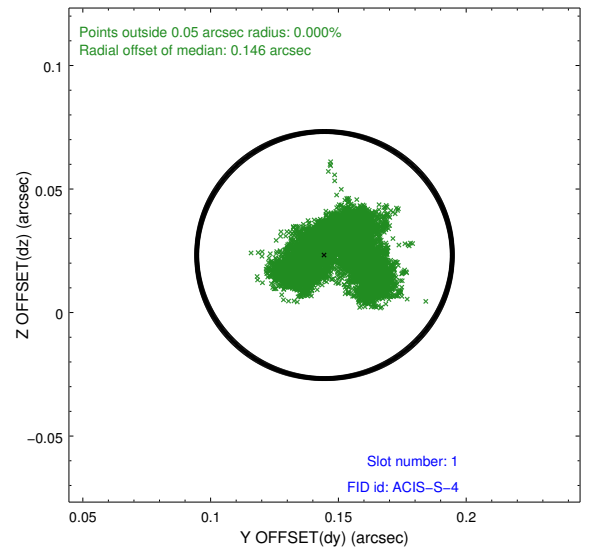
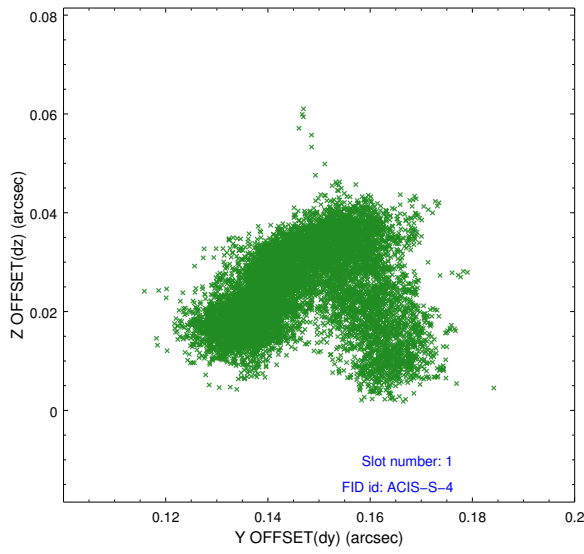


2.5 FID Slots

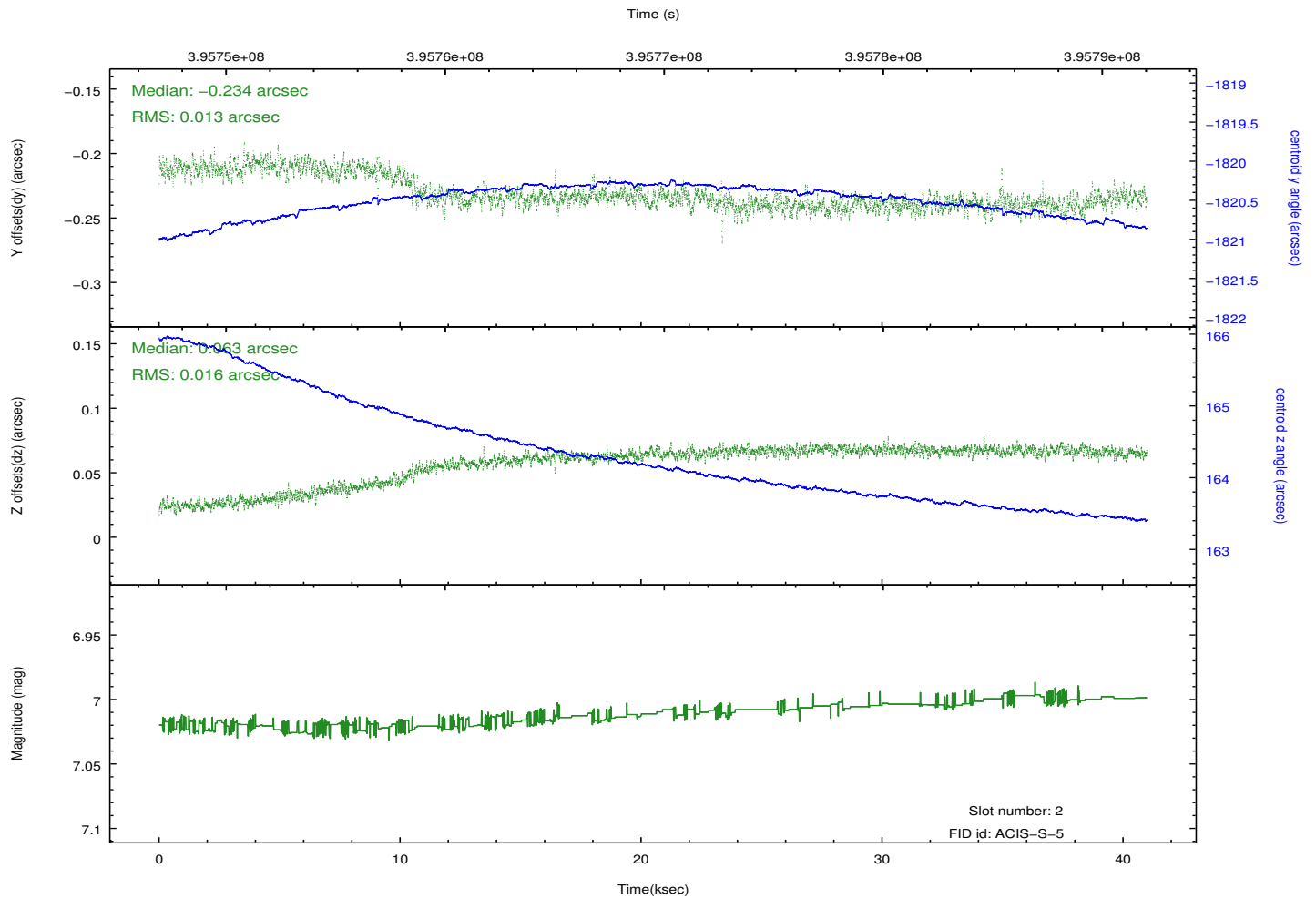
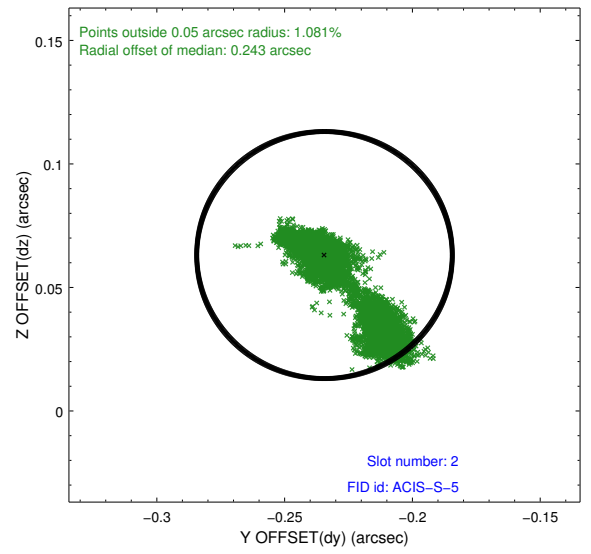
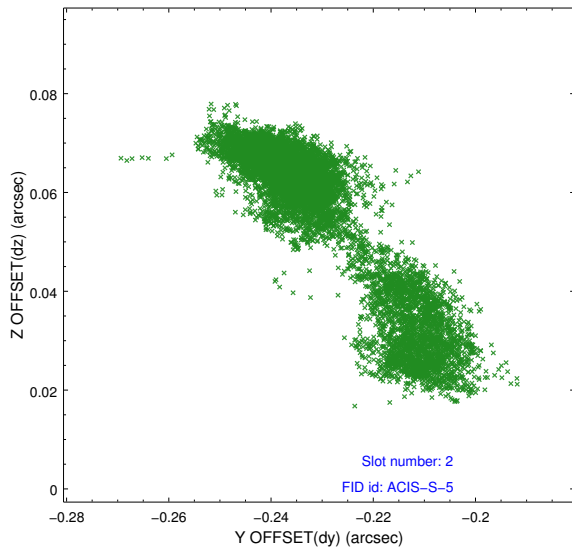
2.5.1 Slot 0



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)	2012.07.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.047999850869

A.2 Comments