

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12366 - L2 Version 2
Chandra X-Ray Center

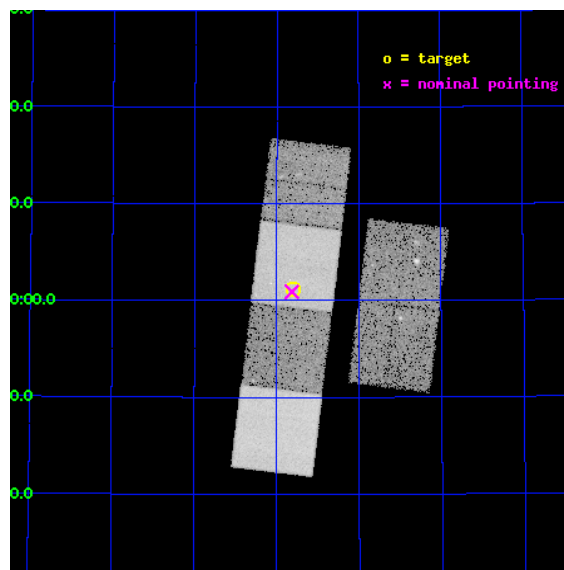
L2 Processing Date : Mar 18 2012

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1 Front

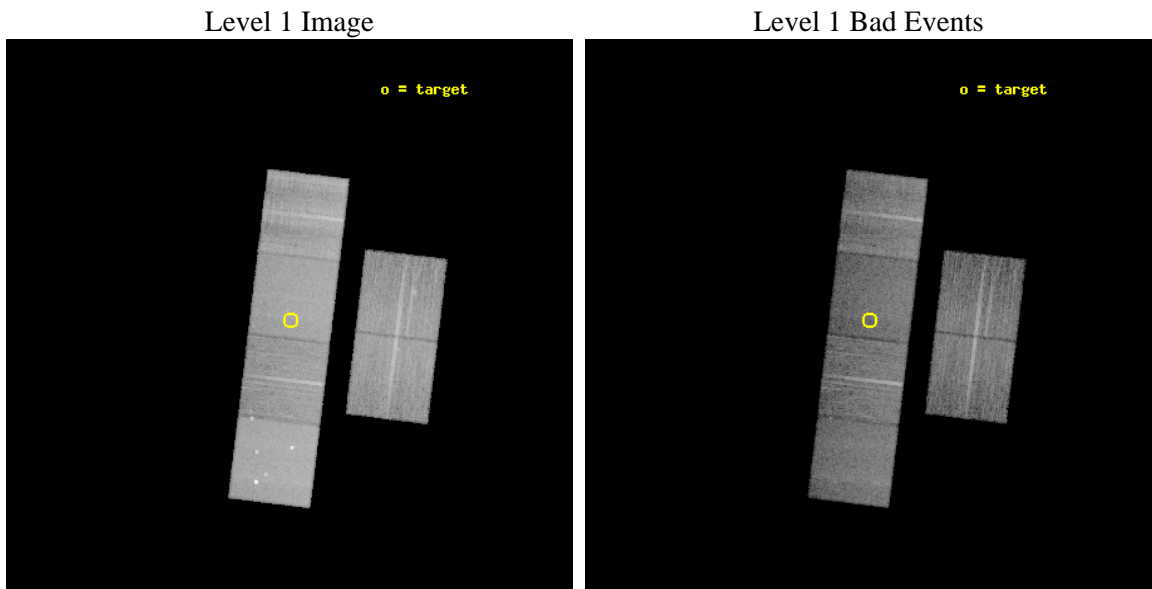
seq_num	200700	Sequence number
obs_id	12366	Observation id
title	X-rays from Planetary Nebulae: Unveiling Binarity, Magnetic Fields, and Wind Collisions	Proposal title
observer	Dr. Joel Kastner	Principal investigator
object	NGC 3587	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.69875	Observer's specified target RA [deg]
dec_targ	55.019028	Observer's specified target Dec [deg]
ra_nom	168.70402234221	Nominal RA [deg]
dec_nom	55.015212424046	Nominal Dec [deg]
roll_nom	276.90812390142	Nominal Roll [deg]
revision	2	Processing version of data
ontime	19491.199927449	Sum of GTIs [s]
livetime	19244.390617776	Livetime [s]
ontime2	19491.199927449	Sum of GTIs [s]
ontime3	19491.199927449	Sum of GTIs [s]
ontime5	19491.199927449	Sum of GTIs [s]
ontime6	19491.199927449	Sum of GTIs [s]
ontime7	19491.199927449	Sum of GTIs [s]
ontime8	19487.958937168	Sum of GTIs [s]
l2events	202789	Number of level 2 events



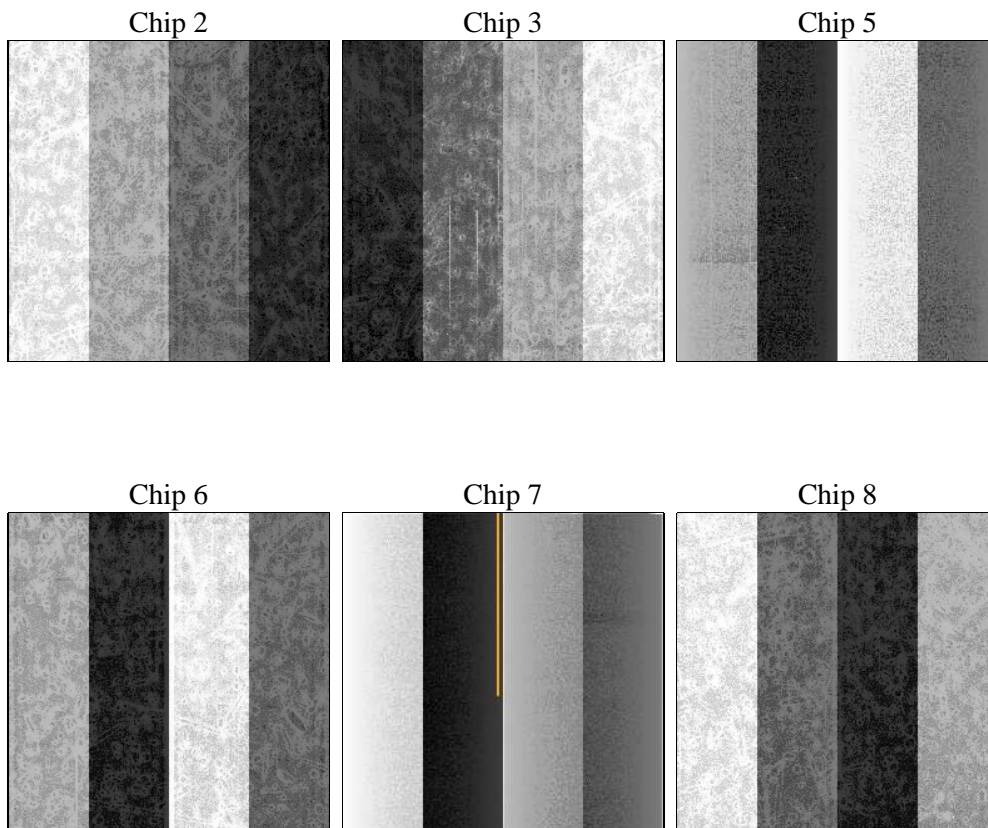
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19440.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	19491.199927449	Sum of GTIs [s]
caldbver	4.4.8	 	ontime2	19491.199927449	Sum of GTIs [s]
date	2012-03-18T18:48:03	Date and time of file creation	ontime3	19491.199927449	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	19491.199927449	Sum of GTIs [s]
			ontime6	19491.199927449	Sum of GTIs [s]
			ontime7	19491.199927449	Sum of GTIs [s]
			ontime8	19487.958937168	Sum of GTIs [s]
			l1events	854148	Number of level 1 events

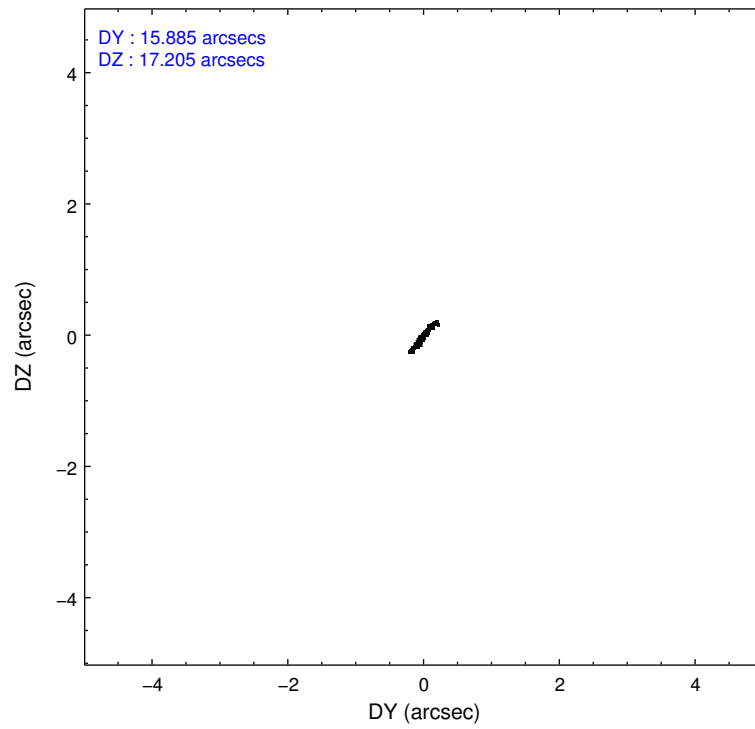
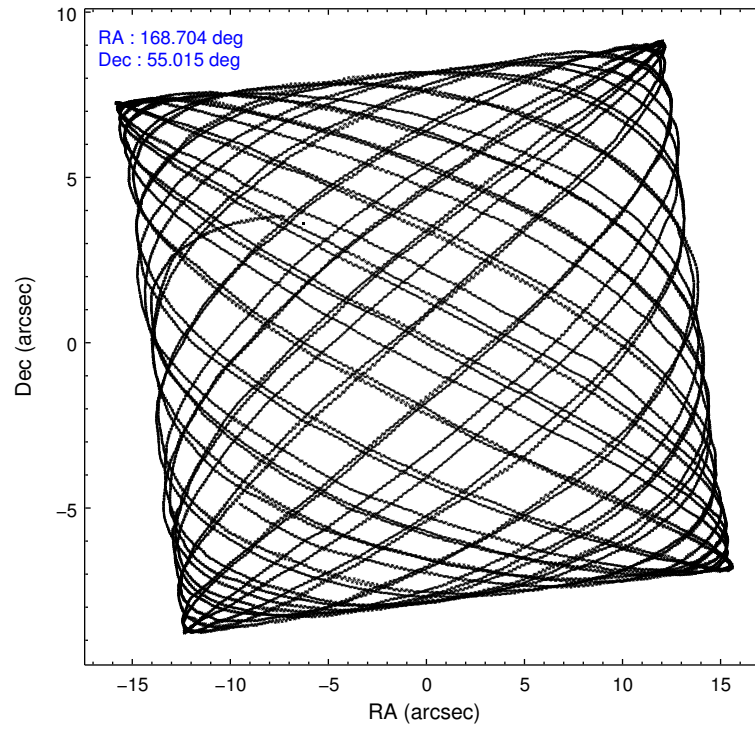
2.1.4 Events

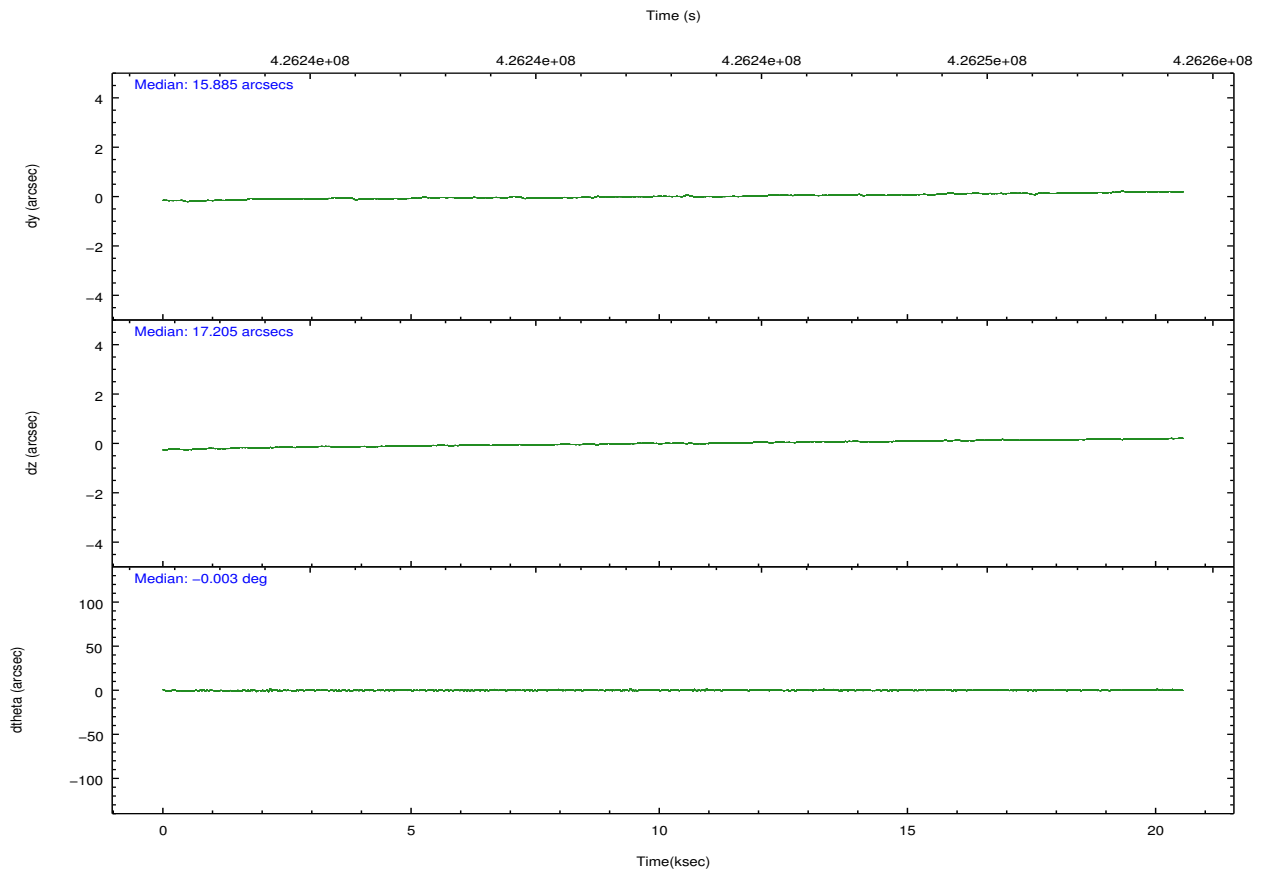
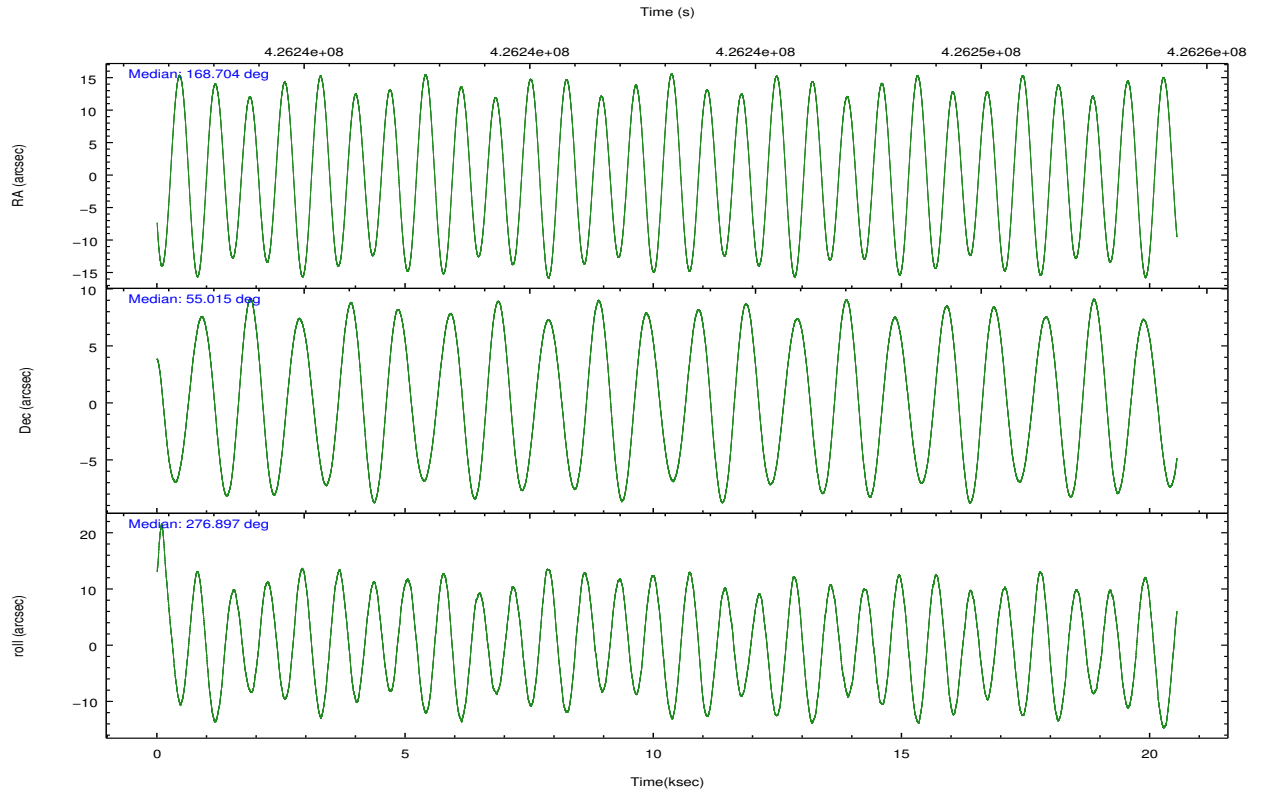
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	120643	115200	192663	116377	152264	157001	grade 0 events	4765	4930	11854	4856	6243	12538
rejected events	107305	102087	95109	102227	84163	114948		3%	4%	6%	4%	4%	7%
rejected %	88%	88%	49%	87%	55%	73%	grade 1 events	80	78	437	65	217	107
								0%	0%	0%	0%	0%	0%
							grade 2 events	3325	2809	29964	3261	13954	10013
								2%	2%	15%	2%	9%	6%
							grade 3 events	1353	1376	3523	1507	5981	4443
								1%	1%	1%	1%	3%	2%
							grade 4 events	1276	1432	3520	1439	5869	4239
								1%	1%	1%	1%	3%	2%
							grade 5 events	4935	5565	14386	5844	16291	8316
								4%	4%	7%	5%	10%	5%
							grade 6 events	2624	2568	48723	3089	36078	10826
								2%	2%	25%	2%	23%	6%
							grade 7 events	102285	96442	80256	96316	67631	106519
								84%	83%	41%	82%	44%	67%

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	168.674852	168.7040223422147	CCD I2 on	O4	Y
[deg] Pointing Dec	55.036871	55.01521242404609	CCD I3 on	O5	Y
[deg] Pointing Roll	276.775395	276.9081239014249	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	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	O2	Y
[s] Observation start time (MET)	426233879.184000	426232266.81507	CCD S5 on	N	N
Observation start date	2011-07-05T06:16:53	2011-07-05T05:51:06	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	426253319.184000	426254277.15372	On-chip summing requested	N	N
Observation end date	2011-07-05T11:40:53	2011-07-05T11:57:57	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





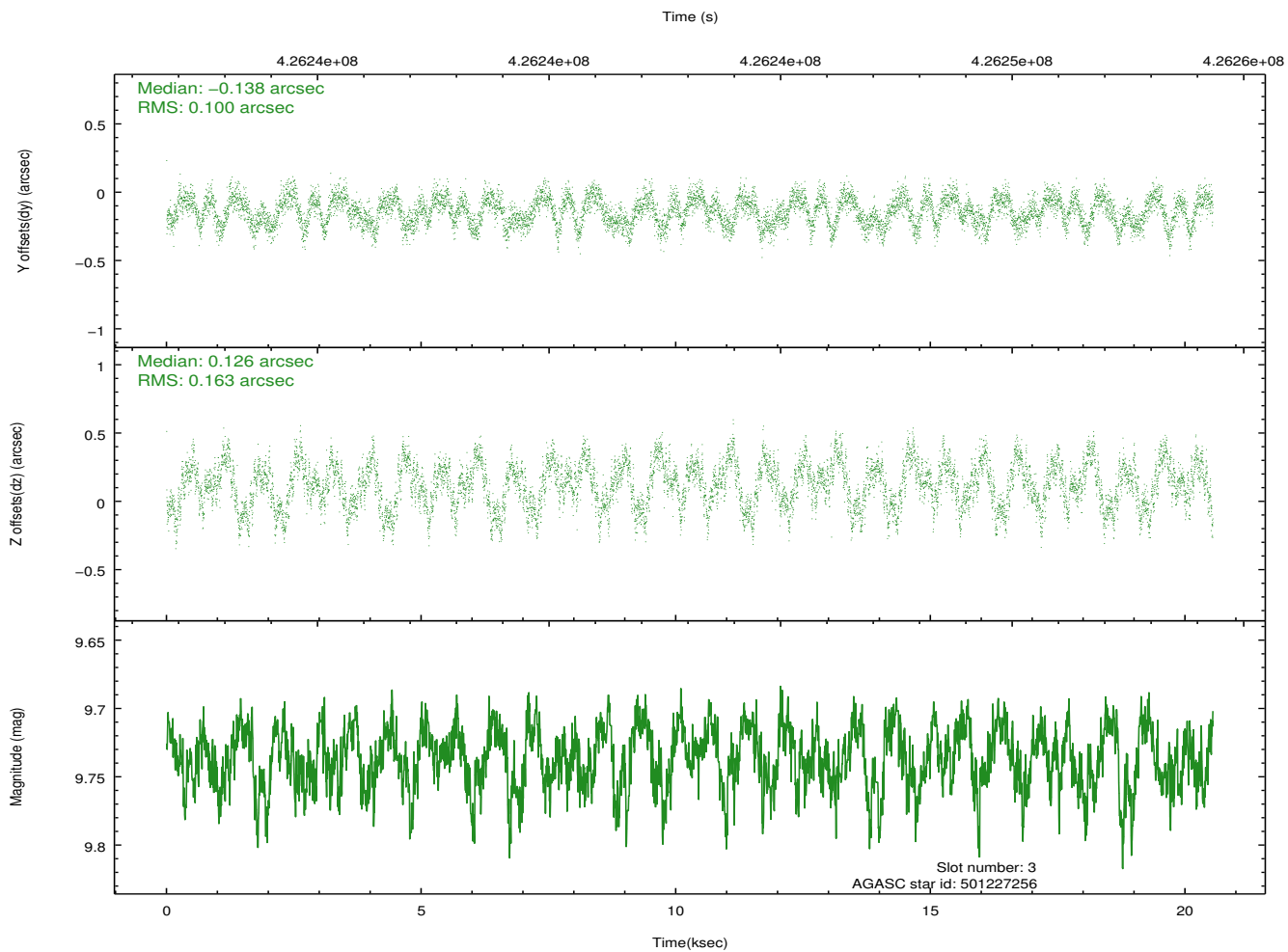
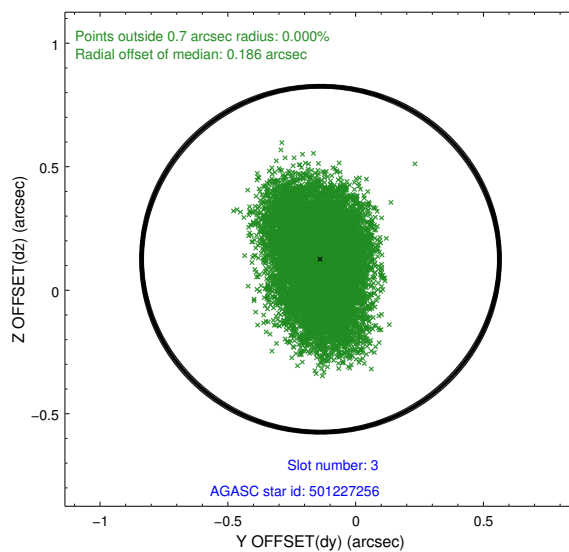
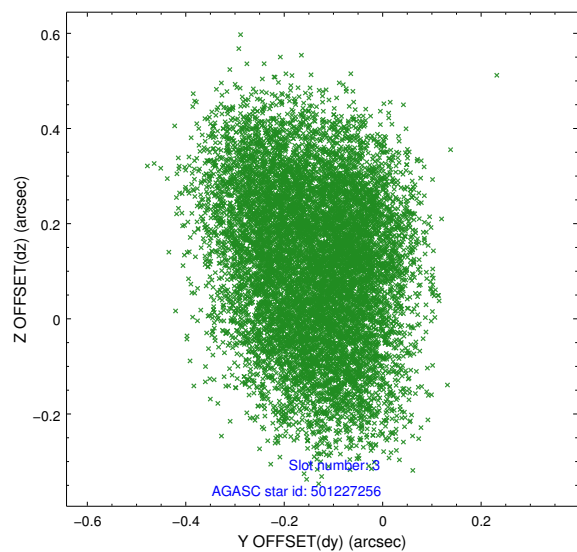
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.86	5011	-0.059	-0.010	0.009	0.015	0.000000	0.000000	-768.99	-1738.63
1	FID	ACIS-S-4	6.94	5011	0.118	0.031	0.012	0.029	0.000000	0.000000	2144.43	169.64
2	FID	ACIS-S-5	6.97	5011	-0.092	-0.013	0.010	0.020	0.000000	0.000000	-1821.59	163.56
3	GUIDE	501227256	9.74	10005	-0.138	0.126	0.205	0.327	167.546596	54.800082	552.17	-2422.75
4	GUIDE	501357016	9.15	9969	0.037	0.065	0.125	0.200	169.764530	54.650733	1630.38	2091.47
5	GUIDE	501615776	8.48	10016	0.086	-0.011	0.096	0.153	168.016087	55.169575	-640.05	-1288.40
6	GUIDE	501748696	8.68	10016	-0.114	-0.103	0.083	0.131	169.618830	55.275192	-636.89	2024.88
7	GUIDE	501751456	9.44	10013	0.132	-0.065	0.179	0.279	169.305081	55.110196	-114.74	1320.85

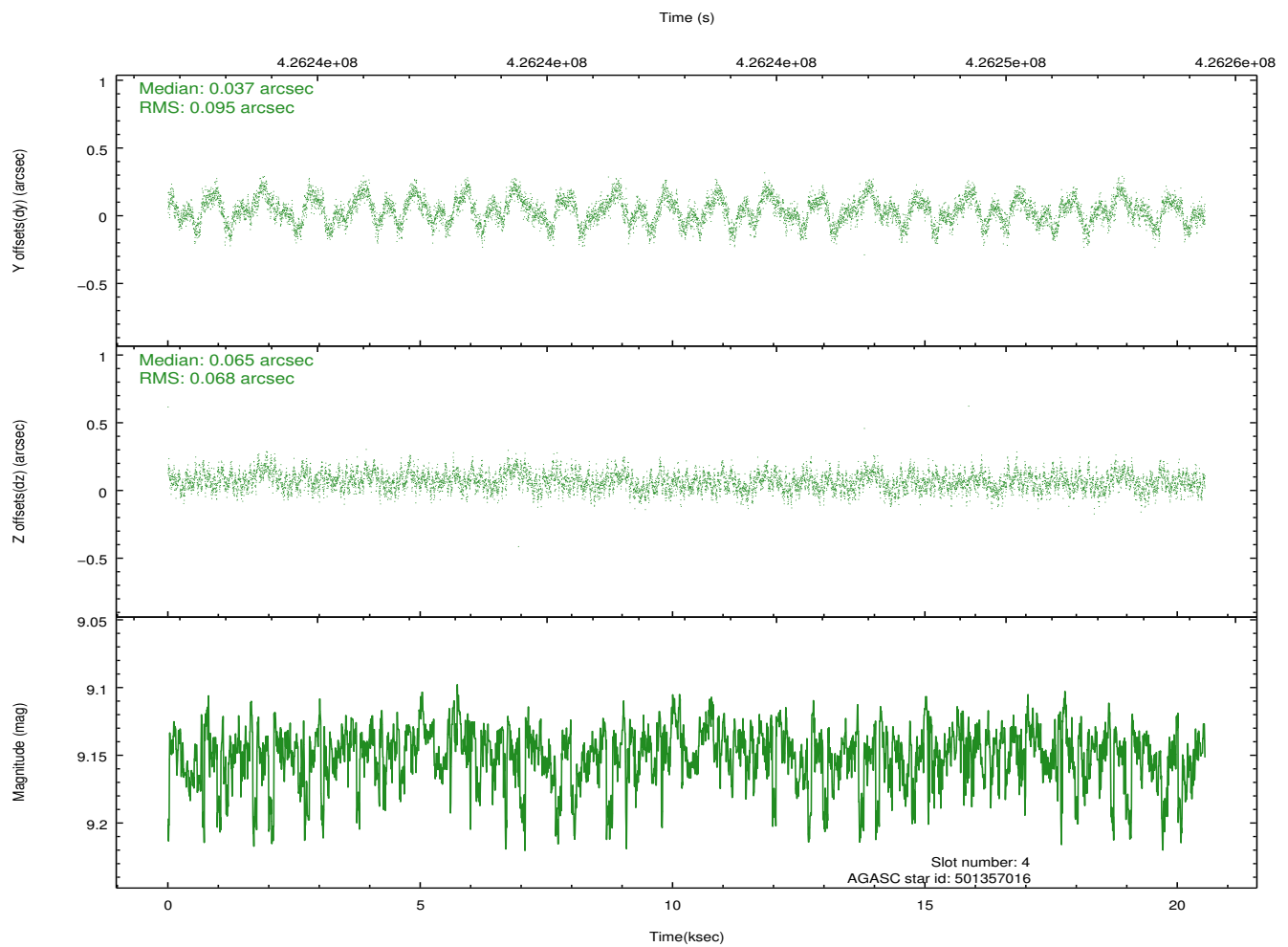
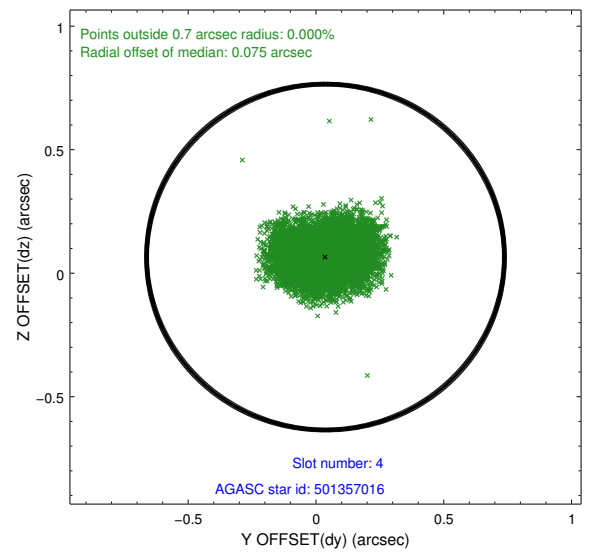
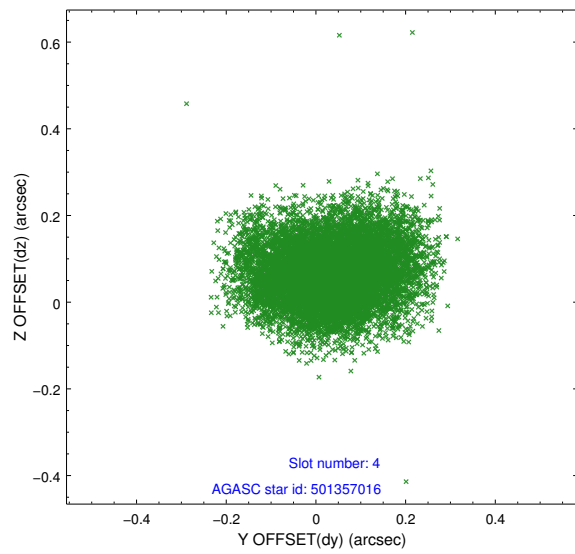
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2.4 Star Slots

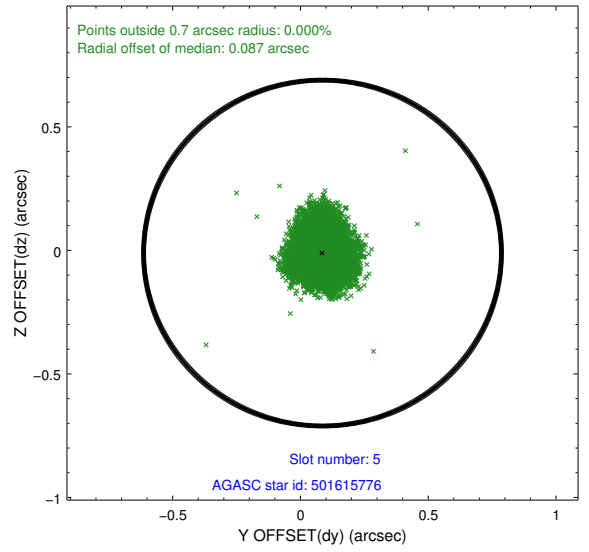
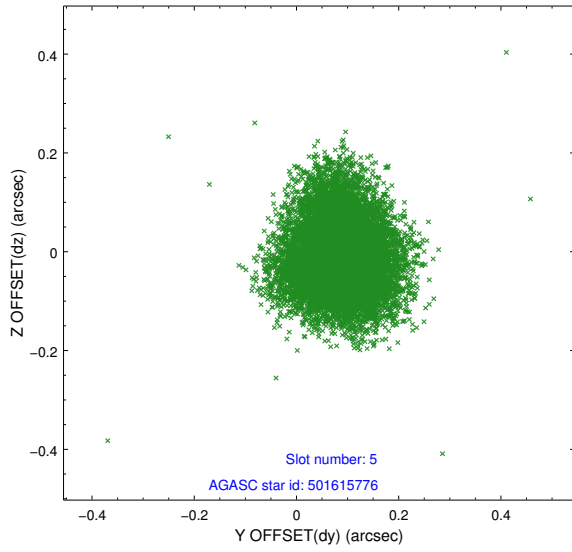
2.4.1 Slot 3



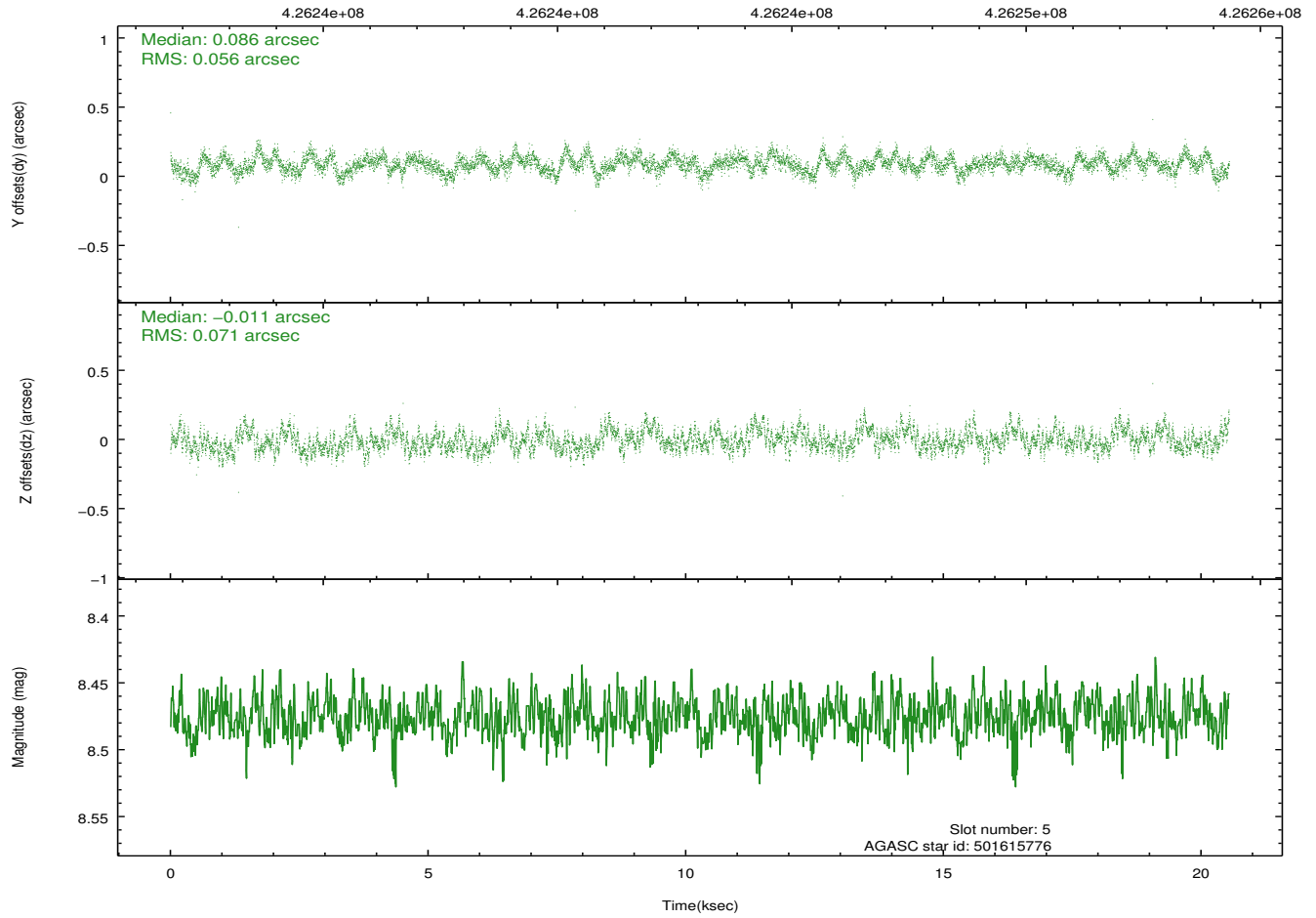
2.4.2 Slot 4



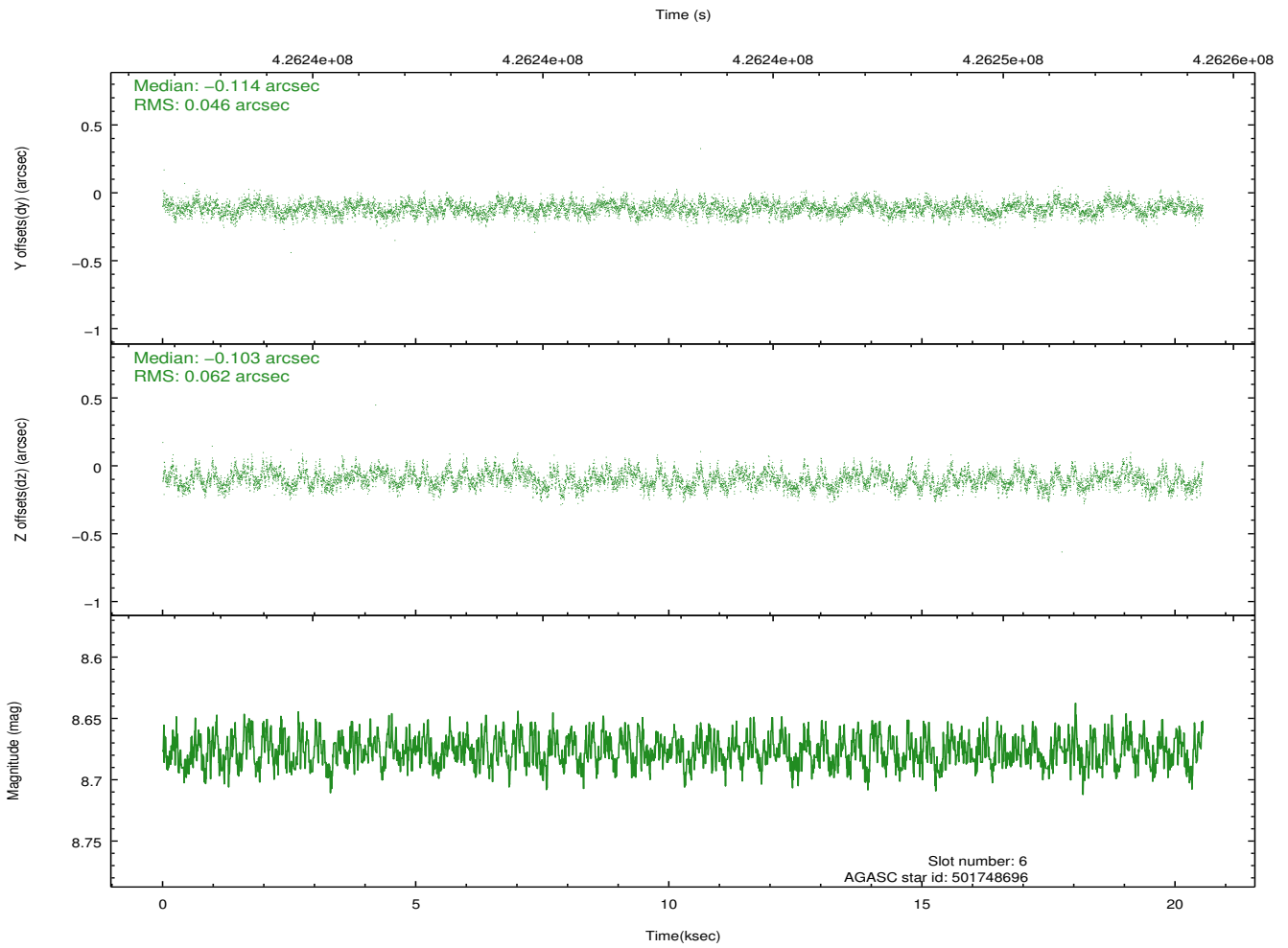
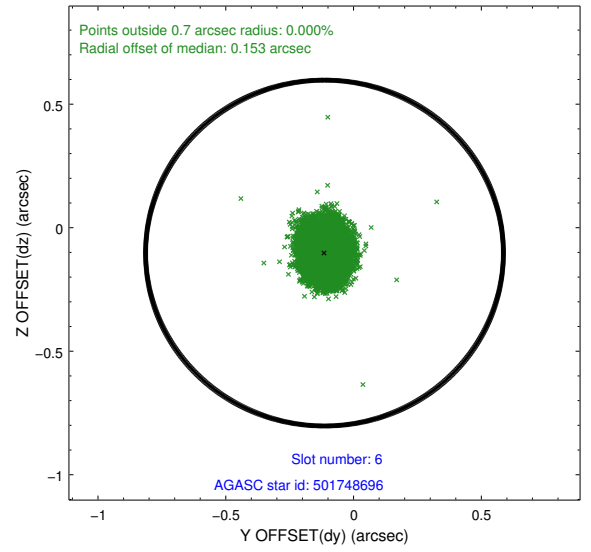
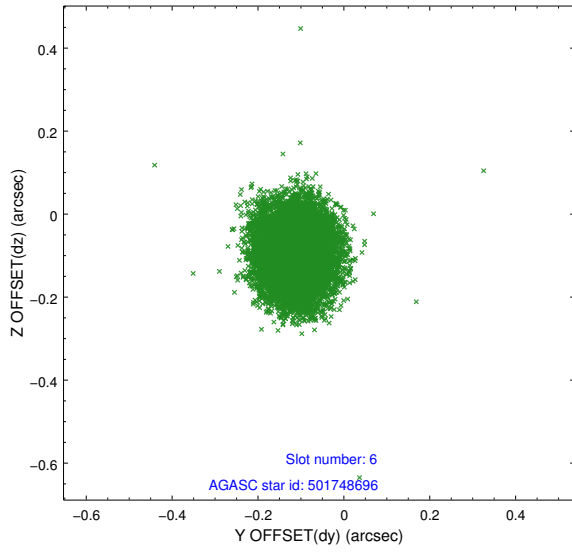
2.4.3 Slot 5



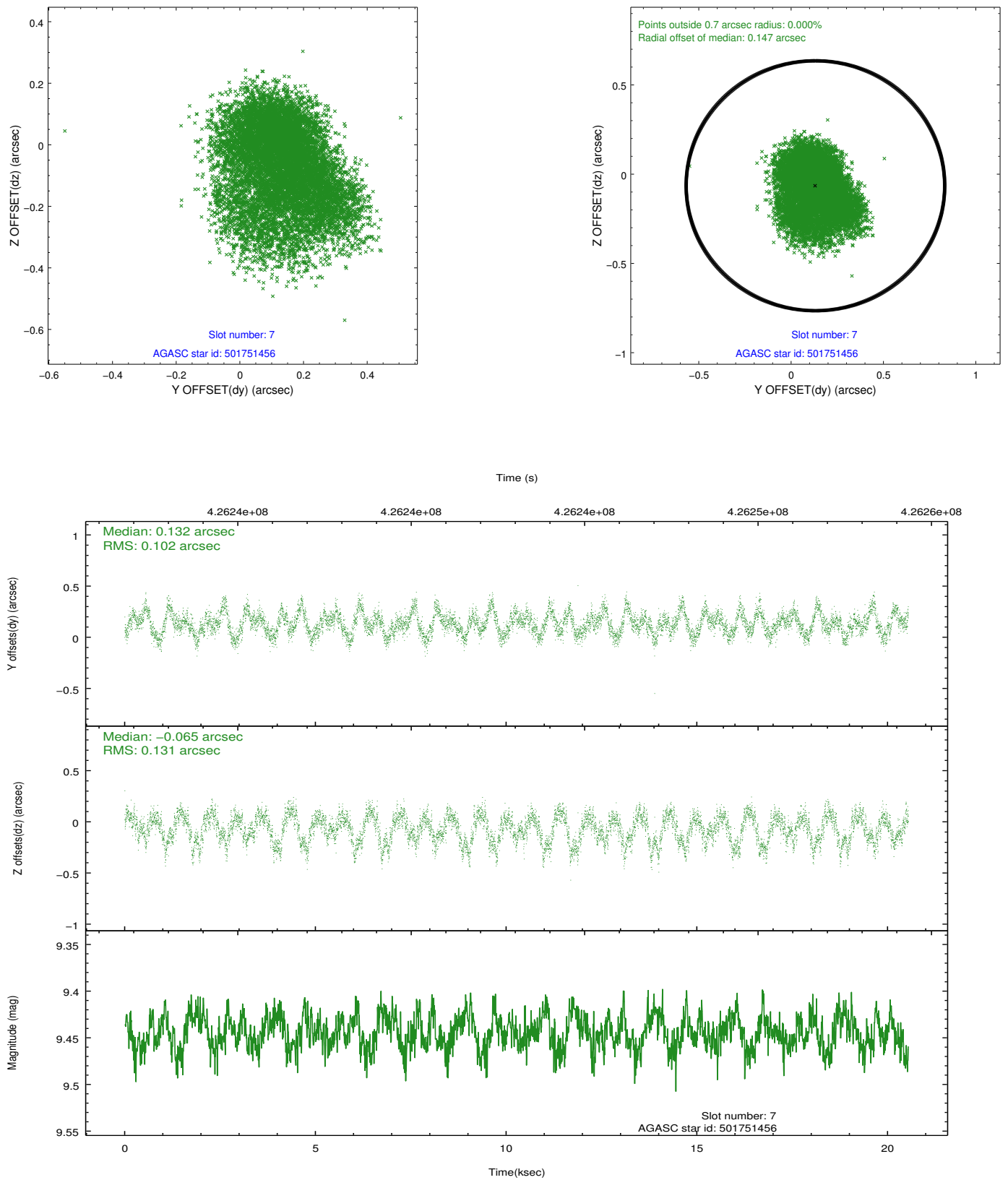
Time (s)



2.4.4 Slot 6

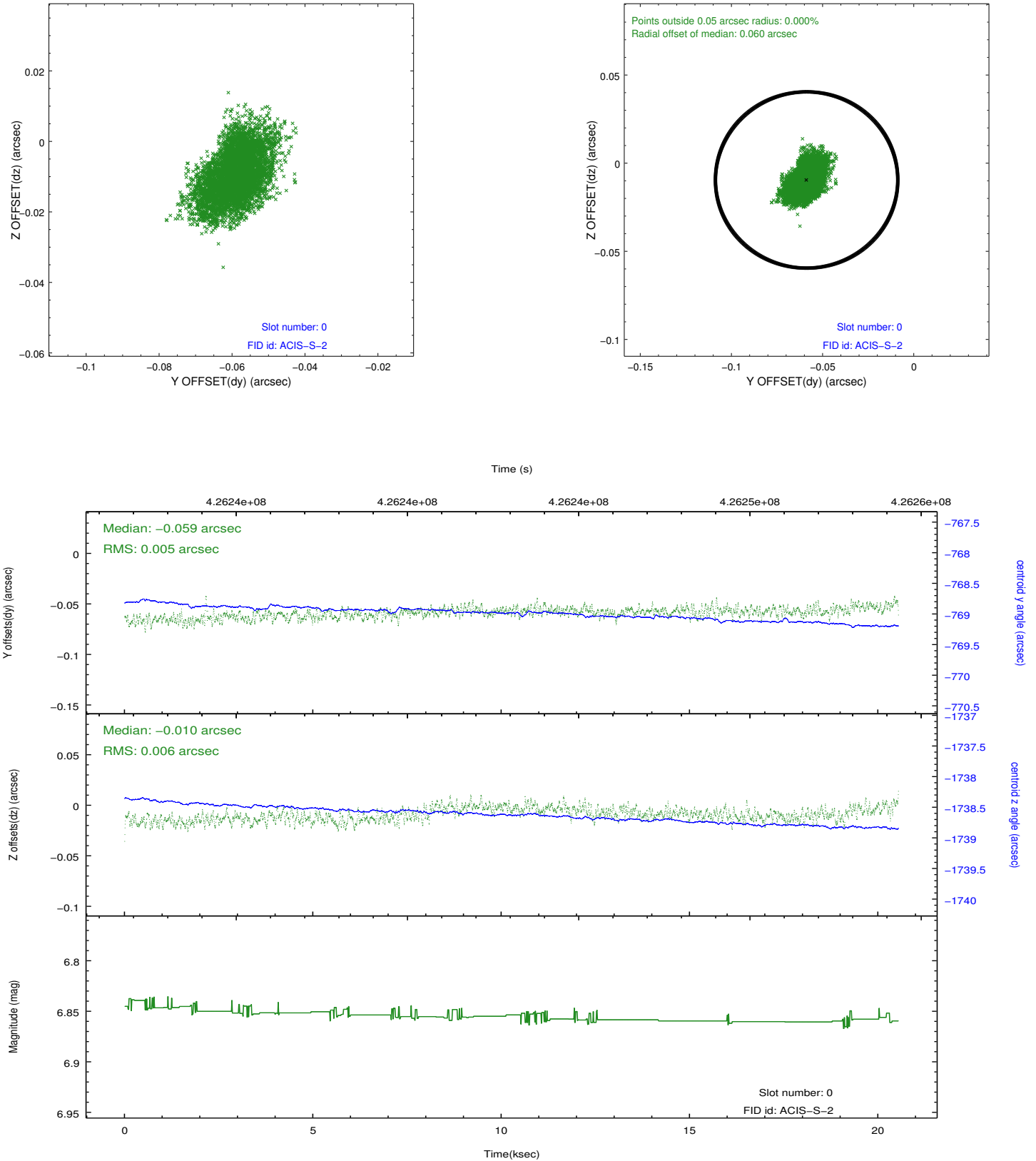


2.4.5 Slot 7

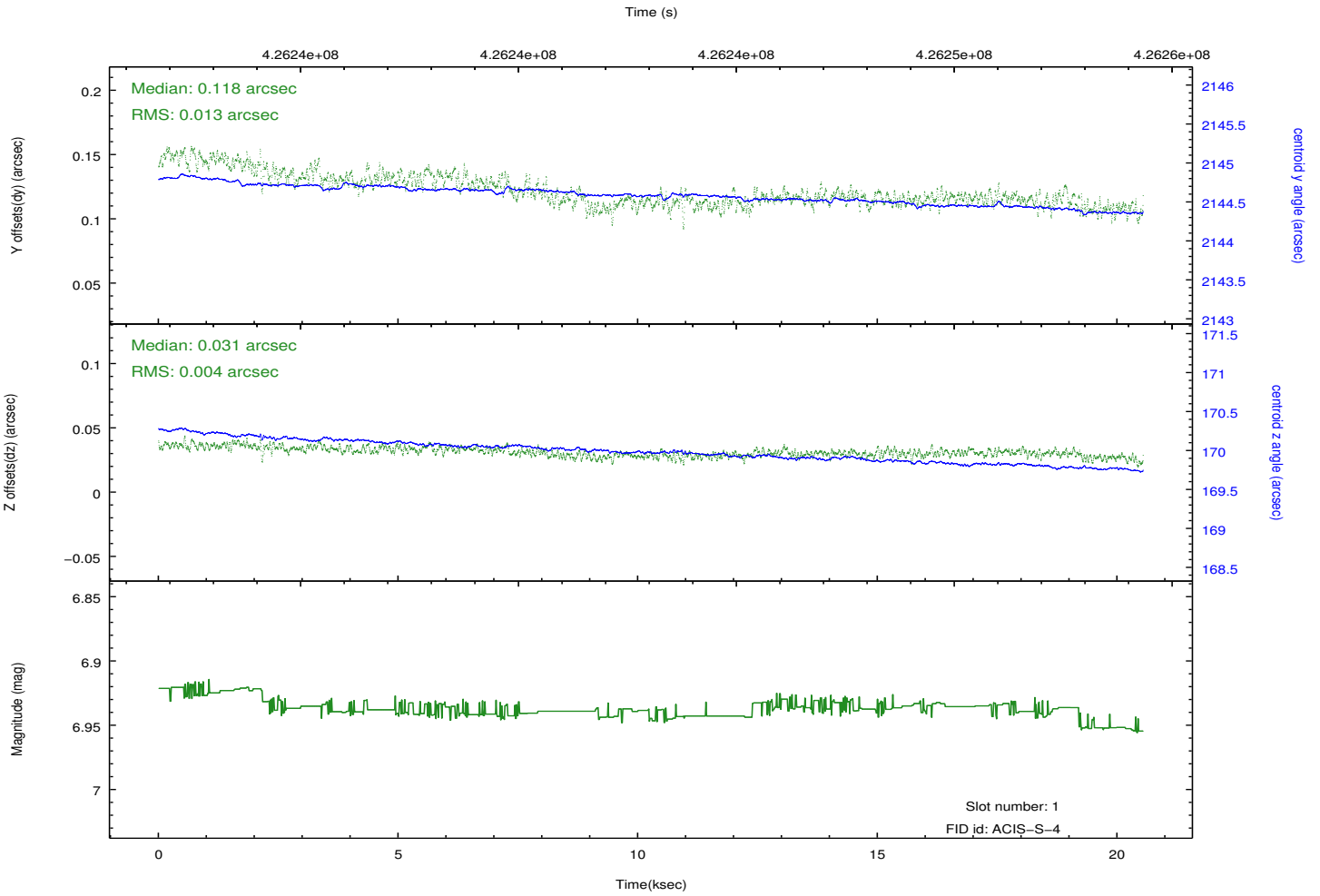
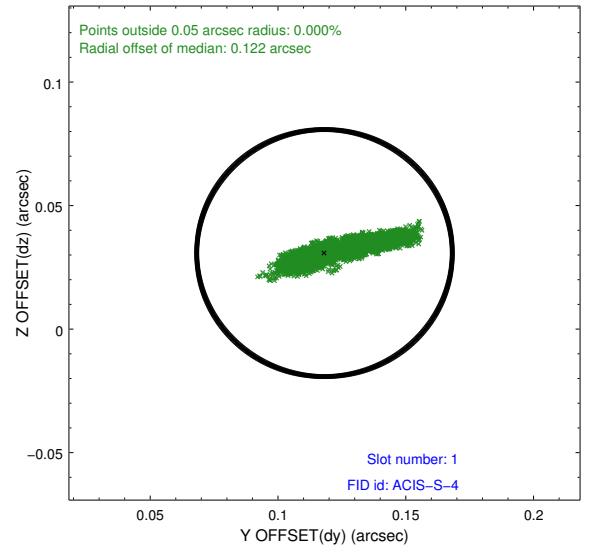
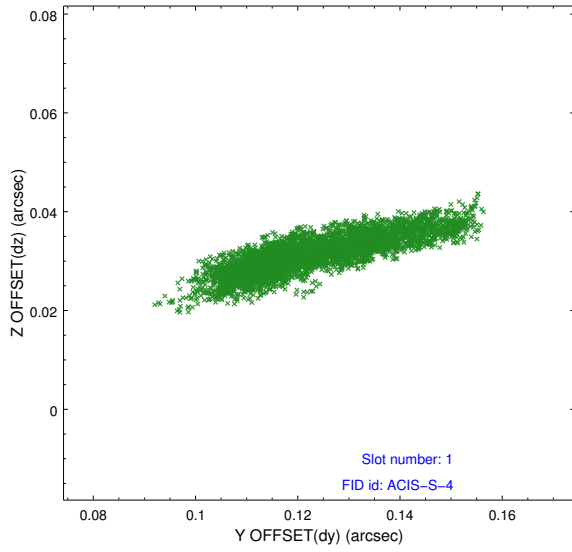


2.5 FID Slots

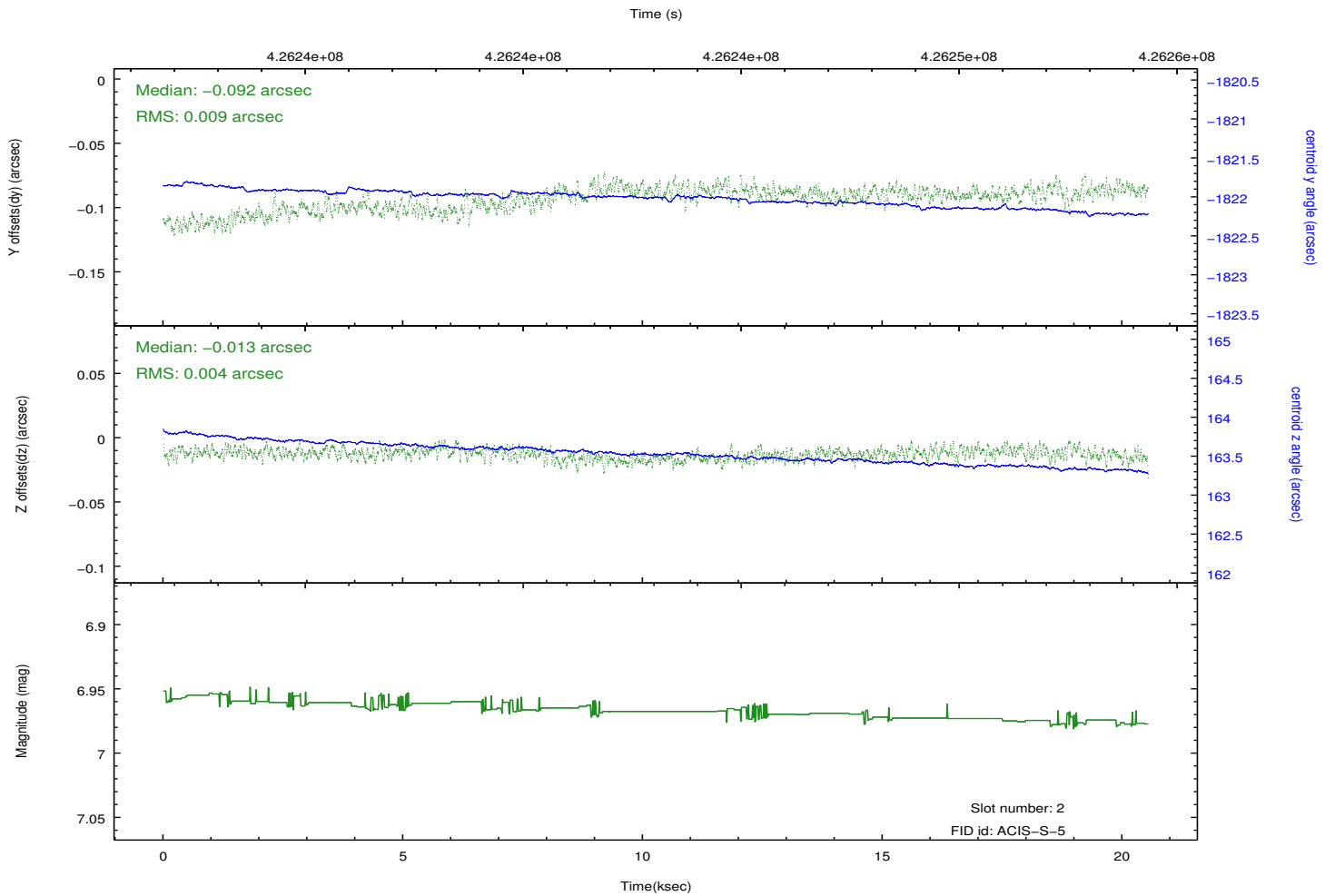
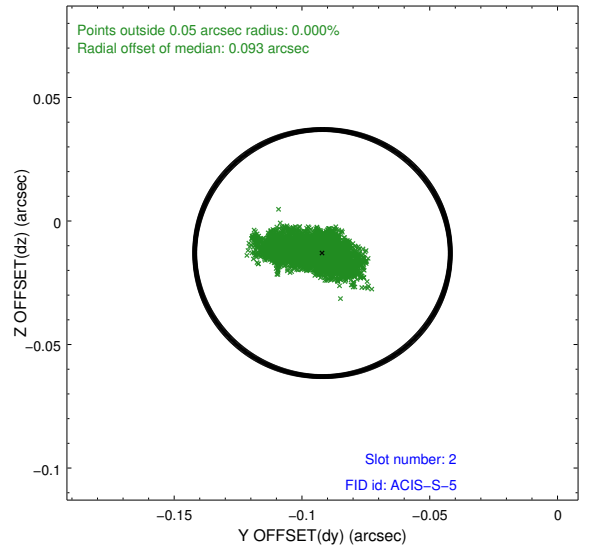
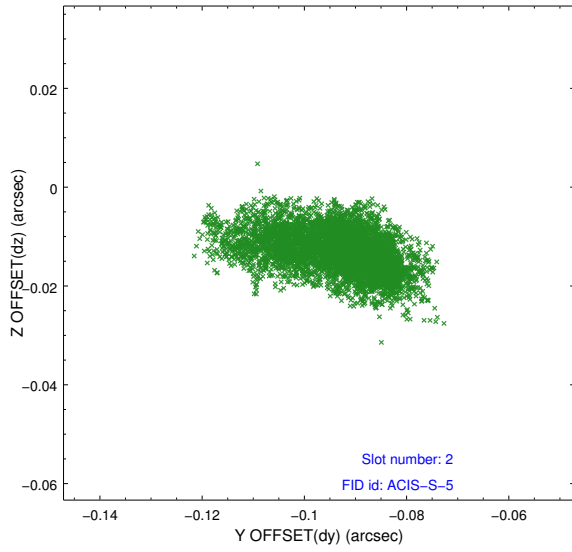
2.5.1 Slot 0



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)	2012.03.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.491199927449

A.2 Comments