

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12509 - L2 Version 3
Chandra X-Ray Center

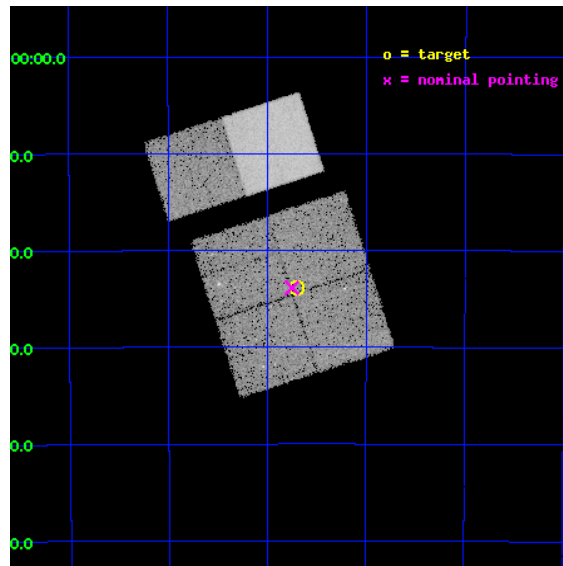
L2 Processing Date : Feb 11 2012

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1 Front

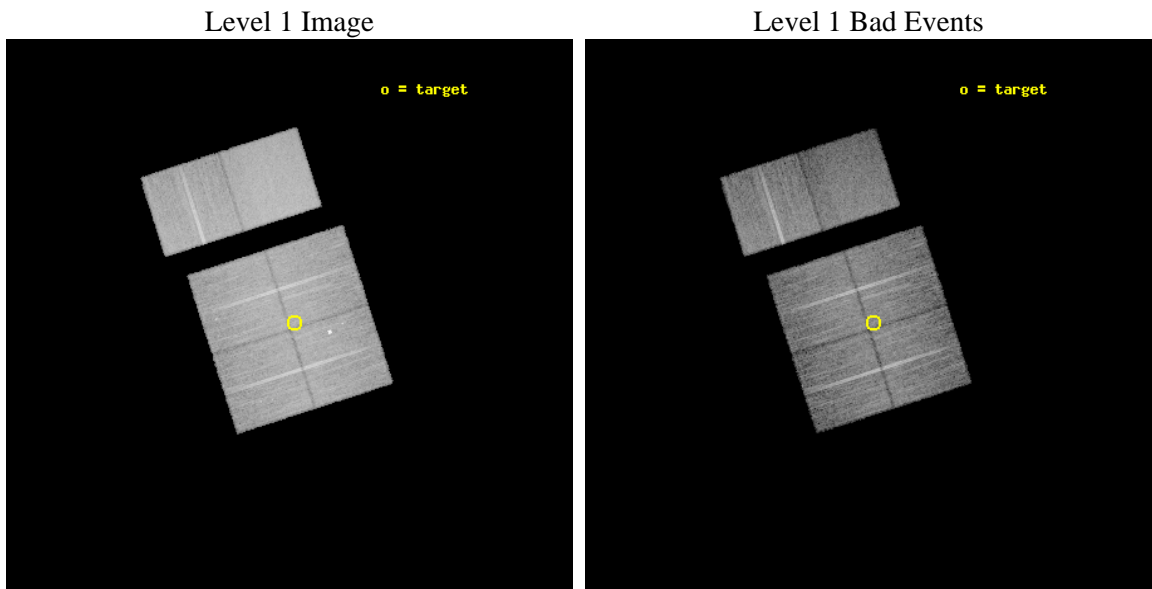
seq_num	401250	Sequence number
obs_id	12509	Observation id
title	Census of the Normal Spiral Arm Region	Proposal title
observer	Dr. John Tomsick	Principal investigator
object	Norma Region	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	249.92608	Observer's specified target RA [deg]
dec_targ	-46.397769	Observer's specified target Dec [deg]
ra_nom	249.9378045422	Nominal RA [deg]
dec_nom	-46.39781577468	Nominal Dec [deg]
roll_nom	342.21717572598	Nominal Roll [deg]
revision	3	Processing version of data
ontime	19609.599927008	Sum of GTIs [s]
livetime	19361.291365249	Livetime [s]
ontime0	19606.358876824	Sum of GTIs [s]
ontime1	19606.358866632	Sum of GTIs [s]
ontime2	19606.358876884	Sum of GTIs [s]
ontime3	19609.599927008	Sum of GTIs [s]
ontime6	19609.599927008	Sum of GTIs [s]
ontime7	19609.599927008	Sum of GTIs [s]
l2events	138458	Number of level 2 events



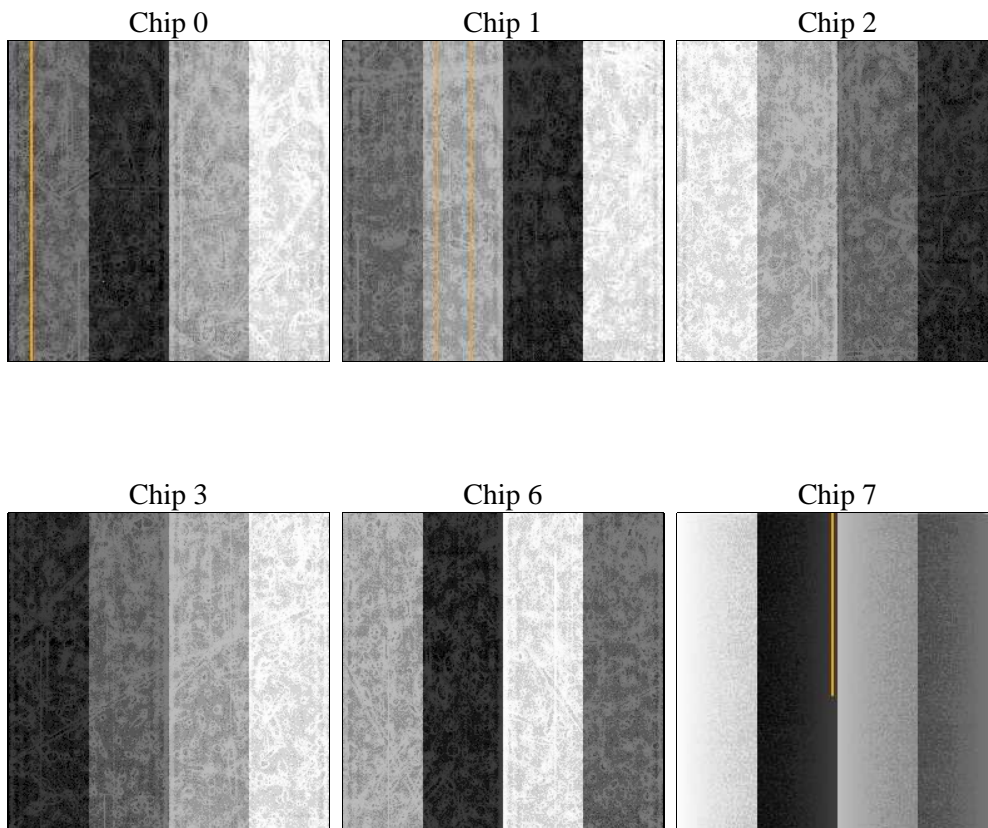
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19850.898000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	19609.599927008	Sum of GTIs [s]
caldbver	4.4.7	 	ontime0	19606.358876824	Sum of GTIs [s]
date	2012-02-11T18:10:13	Date and time of file creation	ontime1	19606.358866632	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	19606.358876884	Sum of GTIs [s]
			ontime3	19609.599927008	Sum of GTIs [s]
			ontime6	19609.599927008	Sum of GTIs [s]
			ontime7	19609.599927008	Sum of GTIs [s]
			l1events	774402	Number of level 1 events

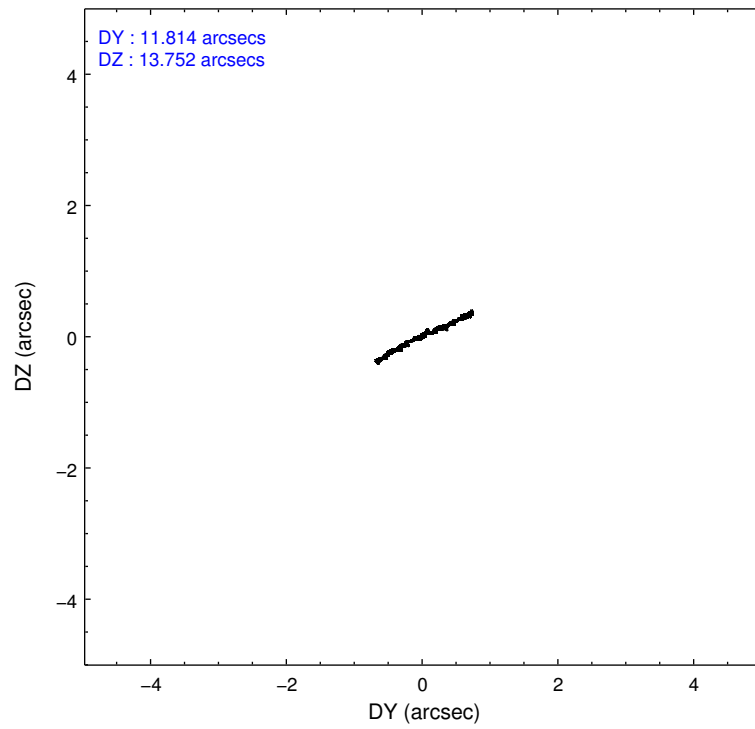
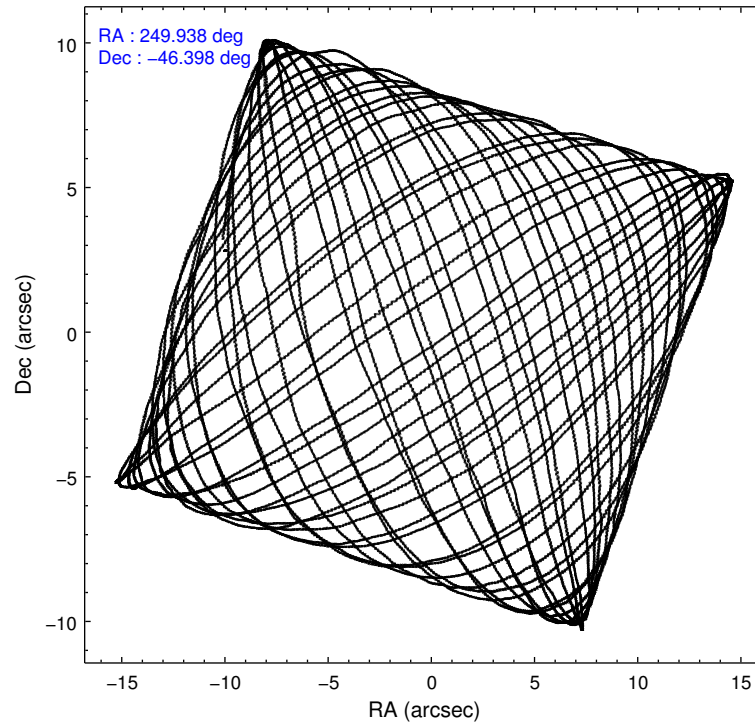
2.1.4 Events

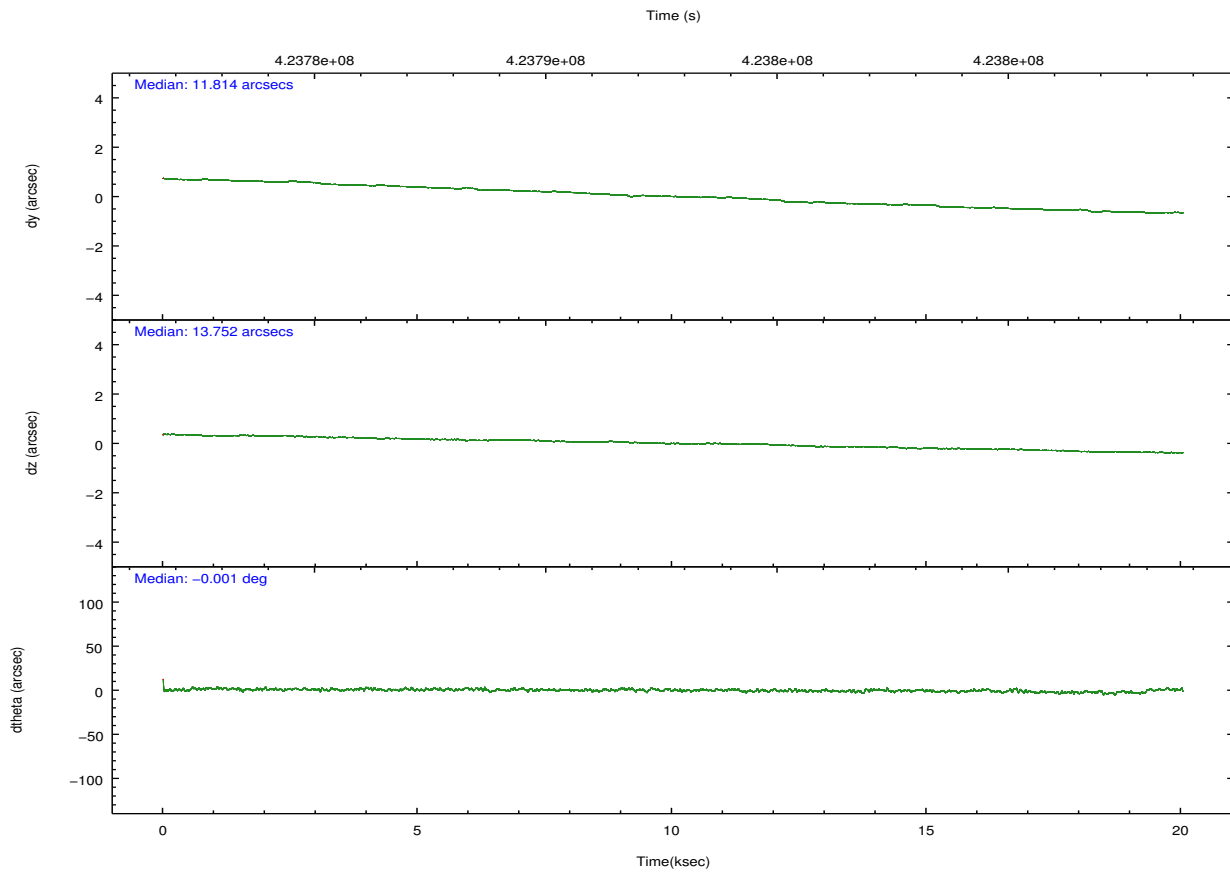
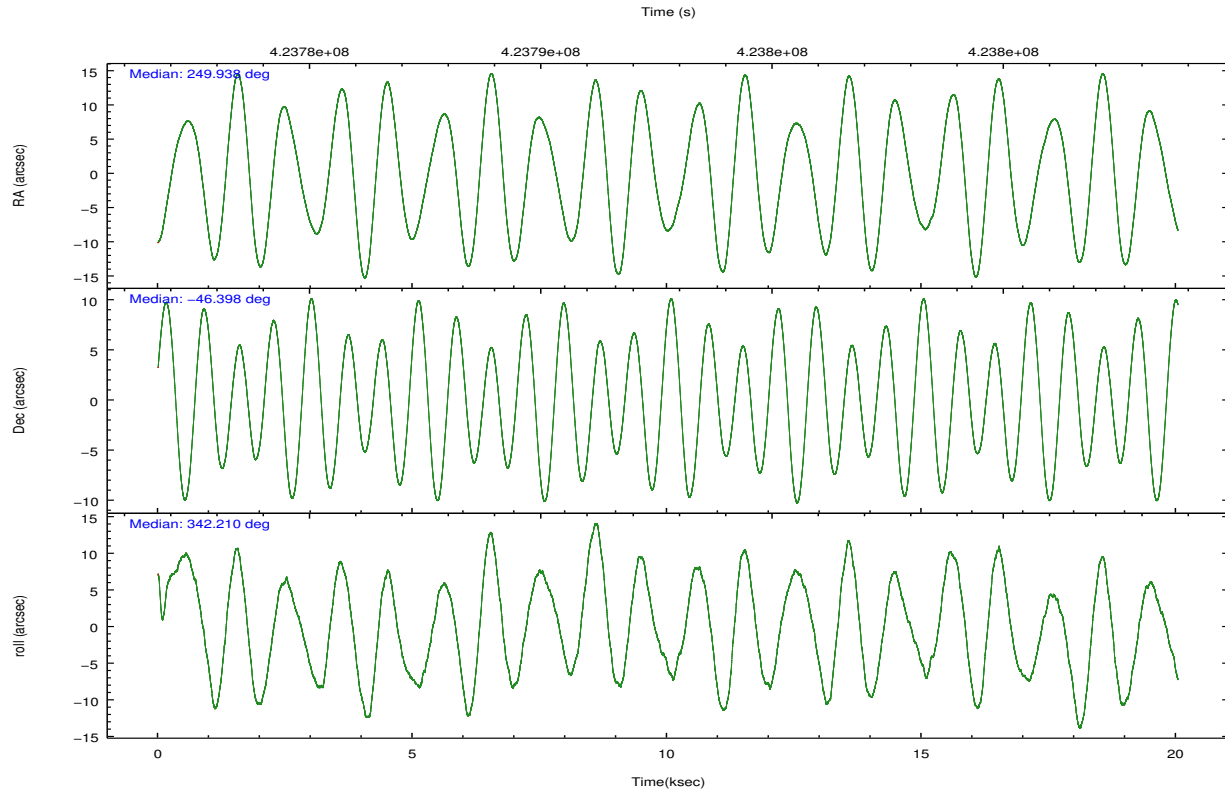
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	114224	121171	126948	119961	132663	159435	grade 0 events	6634	9252	6817	5699	5836	6796
rejected events	97951	101745	110961	105485	116822	87076		5%	7%	5%	4%	4%	4%
rejected %	85%	83%	87%	87%	88%	54%	grade 1 events	80	139	85	70	81	171
								0%	0%	0%	0%	0%	0%
							grade 2 events	3664	3544	3571	3065	3499	14748
								3%	2%	2%	2%	2%	9%
							grade 3 events	1570	1666	1500	1501	1501	6232
								1%	1%	1%	1%	1%	3%
							grade 4 events	1497	1579	1457	1415	1519	6265
								1%	1%	1%	1%	1%	3%
							grade 5 events	5011	5442	4830	5825	5913	16086
								4%	4%	3%	4%	4%	10%
							grade 6 events	2910	3388	2647	2801	3490	38330
								2%	2%	2%	2%	2%	24%
							grade 7 events	92858	96161	106041	99585	110824	70807
								81%	79%	83%	83%	83%	44%

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	249.898853	249.9378045421963	CCD I2 on	Y	Y
[deg] Pointing Dec	-46.403751	-46.39781577467974	CCD I3 on	Y	Y
[deg] Pointing Roll	341.980280	342.2171757259825	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)	423782919.184000	423782543.85006	CCD S5 on	N	N
Observation start date	2011-06-06T21:27:33	2011-06-06T21:22:23	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	423802770.184000	423803007.46363	On-chip summing requested	N	N
Observation end date	2011-06-07T02:58:24	2011-06-07T03:03:27	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



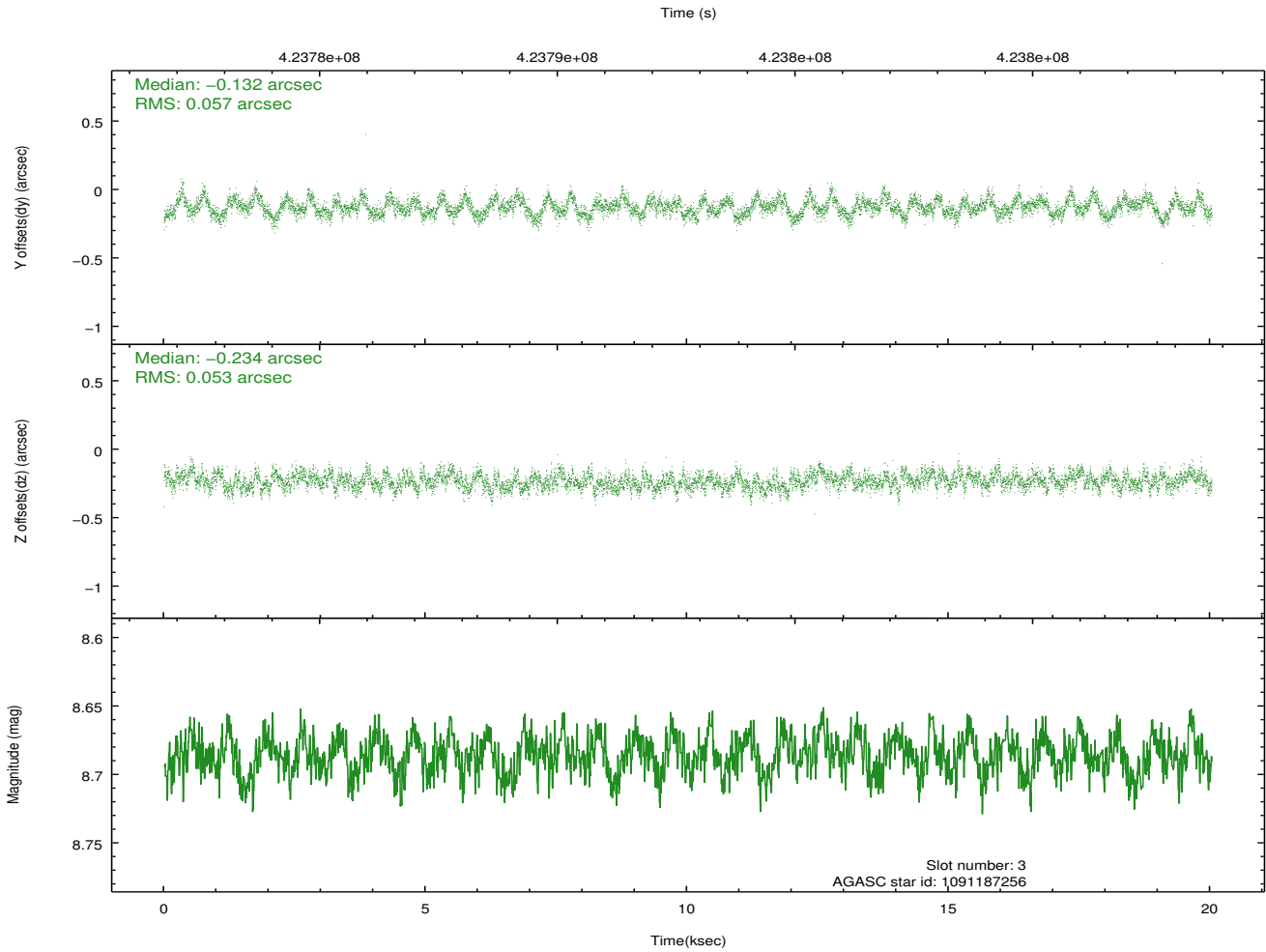
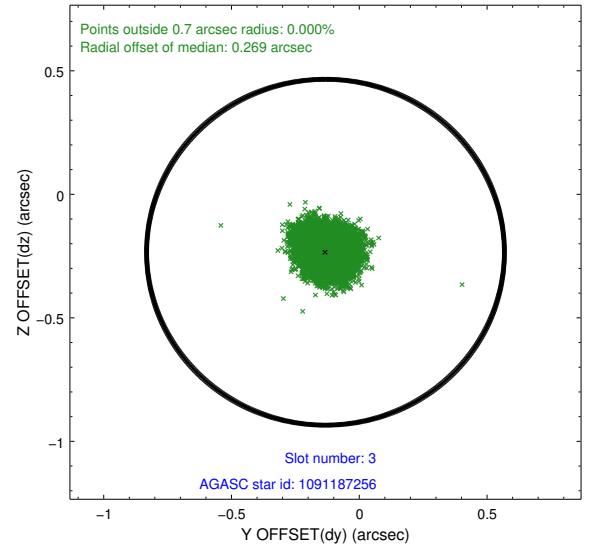
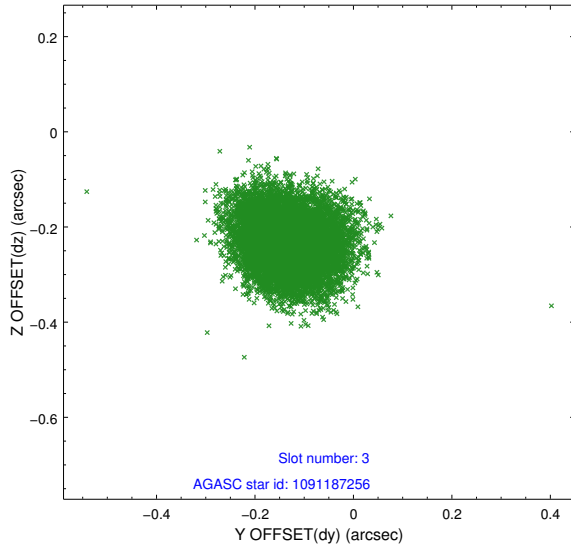


Slot Statistics

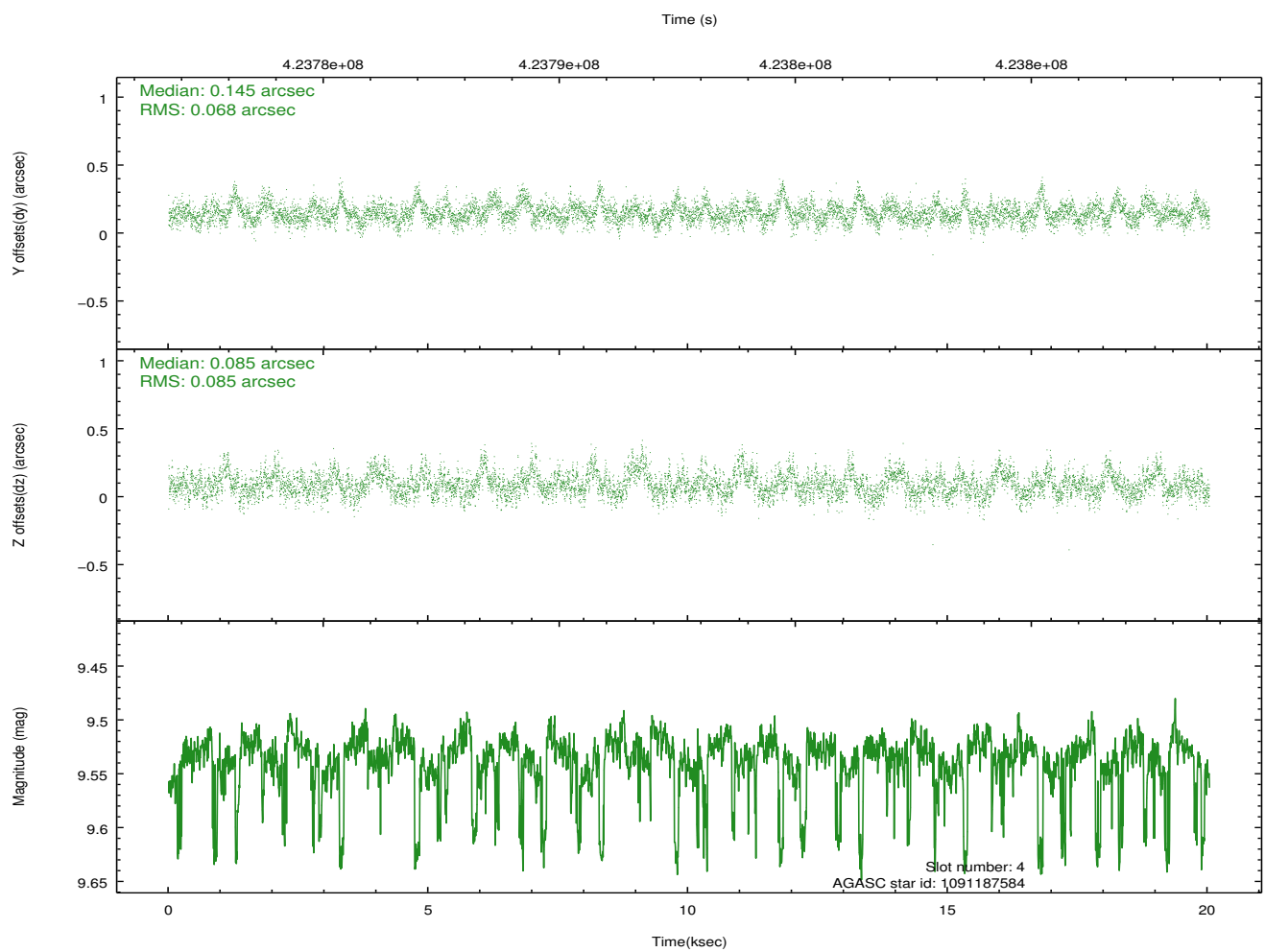
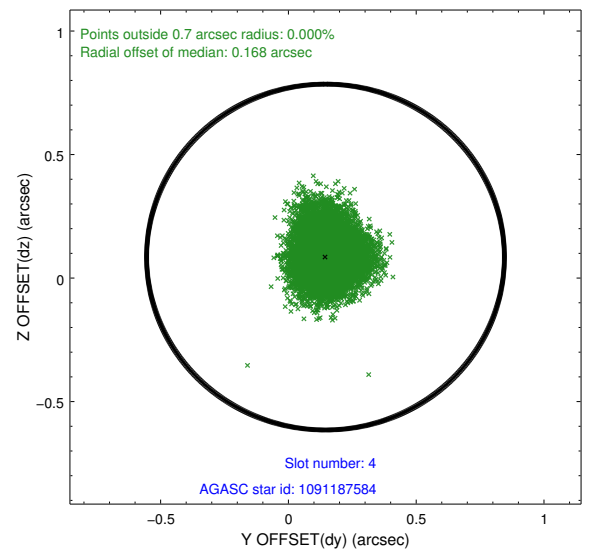
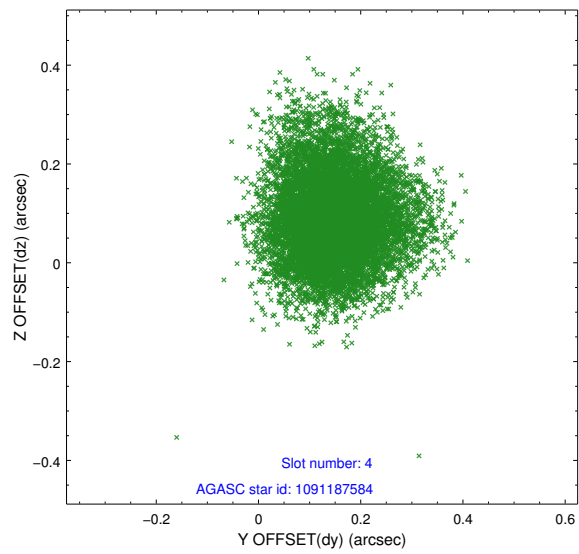
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.14	4888	-0.038	0.072	0.016	0.039	0.000000	0.000000	927.68	-837.26
1	FID	ACIS-I-2	7.04	4888	-0.157	-0.085	0.011	0.025	0.000000	0.000000	-766.43	-843.92
2	FID	ACIS-I-4	7.06	4888	0.095	0.080	0.013	0.021	0.000000	0.000000	2147.64	1062.44
3	GUIDE	1091187256	8.69	9770	-0.132	-0.234	0.083	0.131	249.979379	-45.772253	-511.10	2224.18
4	GUIDE	1091187584	9.53	9714	0.145	0.085	0.115	0.190	249.154381	-46.614366	-1512.67	-1298.59
5	GUIDE	1091334688	6.12	9772	-0.161	-0.187	0.079	0.125	250.764858	-46.070295	1688.88	1799.48
6	GUIDE	1091200352	9.56	9769	0.097	0.366	0.125	0.198	248.790112	-46.790494	-2161.35	-2187.27
7	GUIDE	1091195232	10.31	9377	0.063	-0.033	0.239	0.380	249.089128	-46.765574	-1492.45	-1866.68

2.4 Star Slots

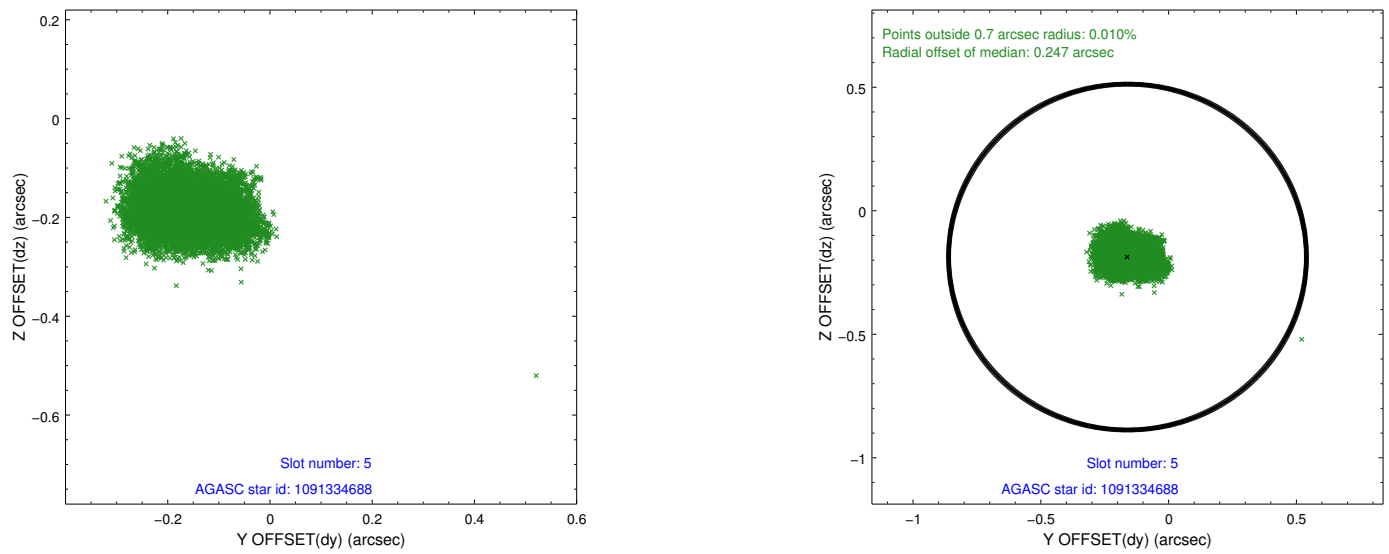
2.4.1 Slot 3



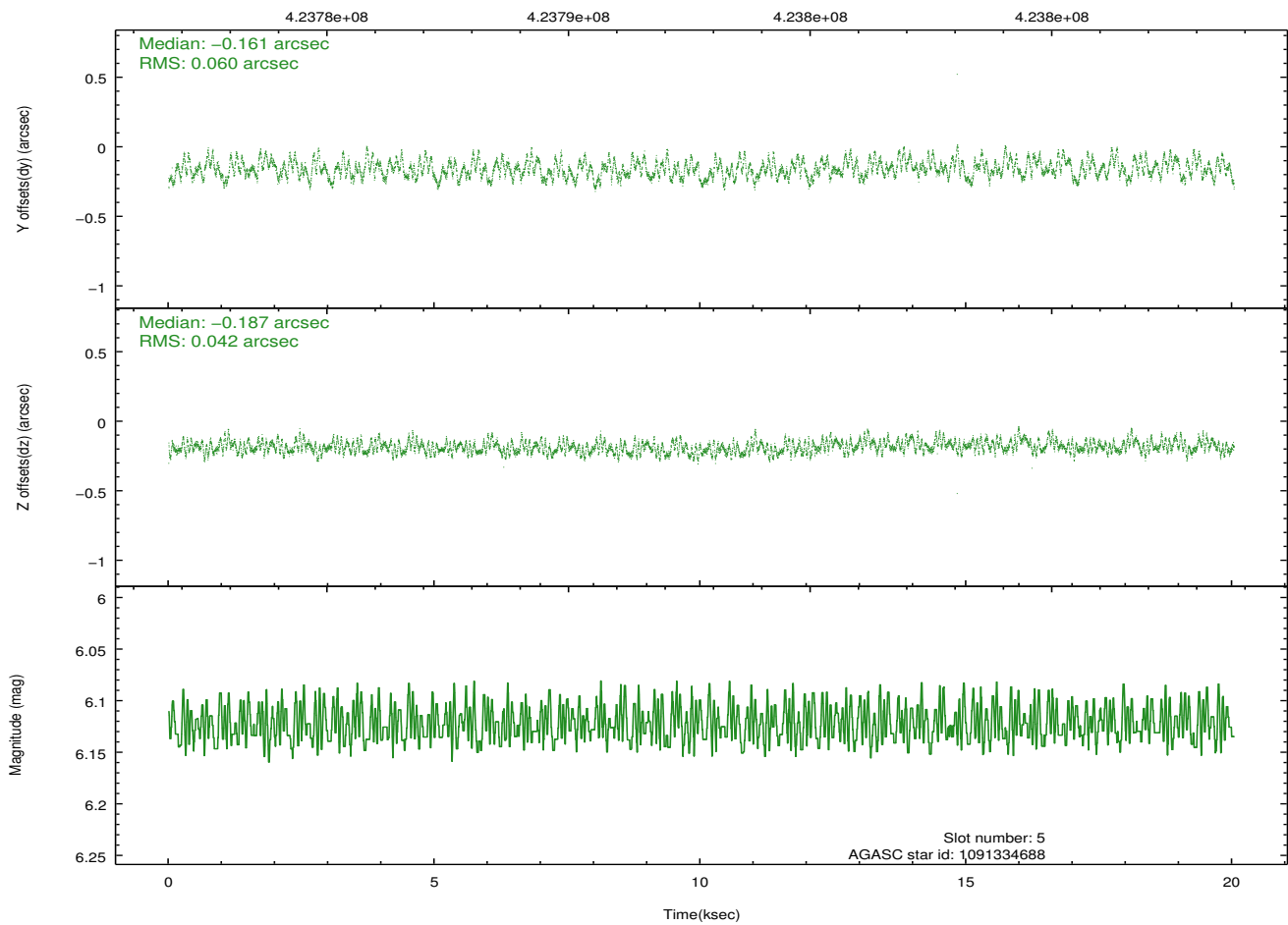
2.4.2 Slot 4



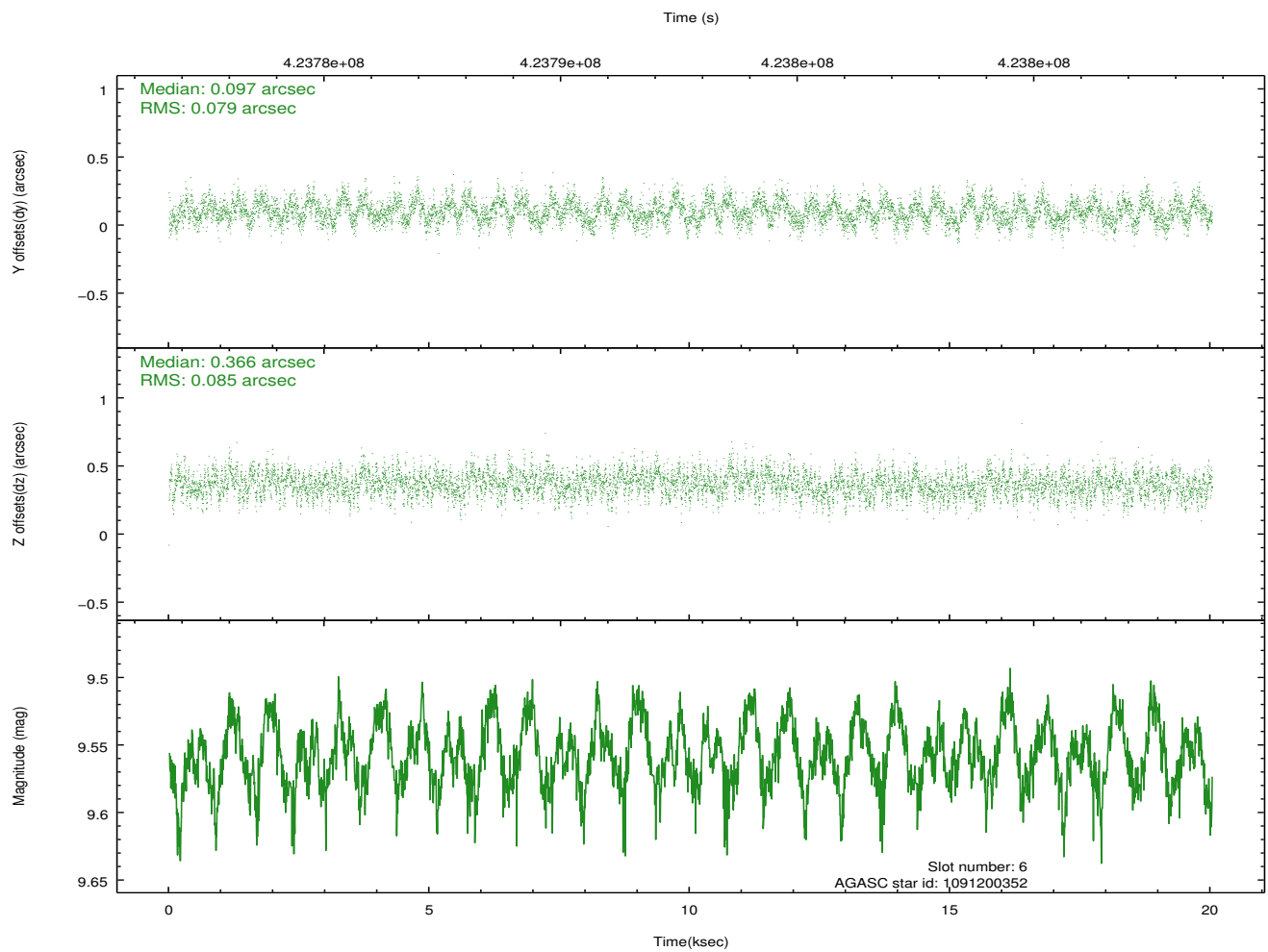
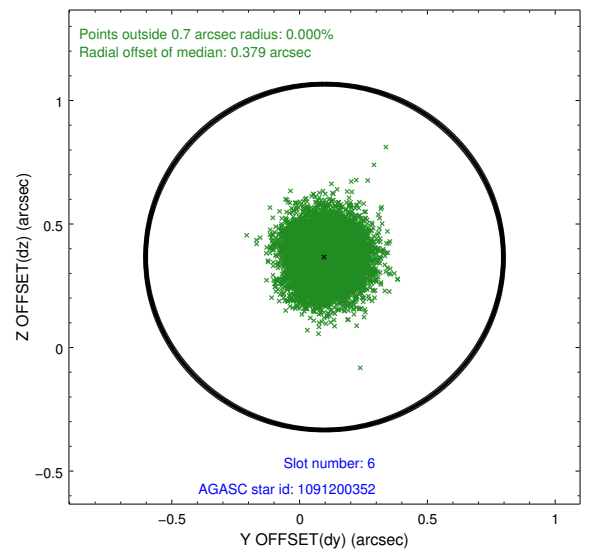
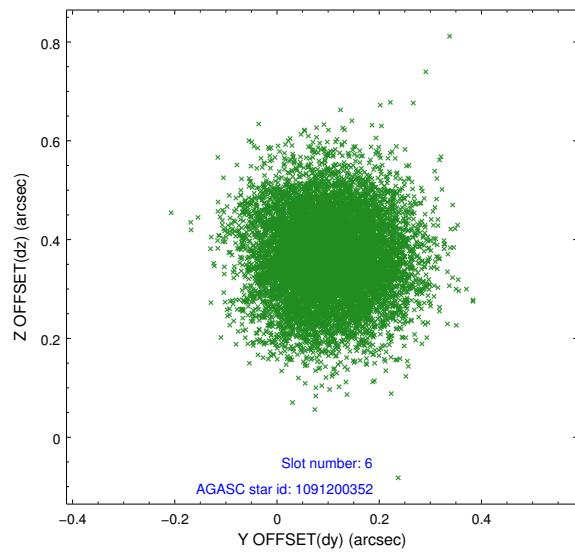
2.4.3 Slot 5



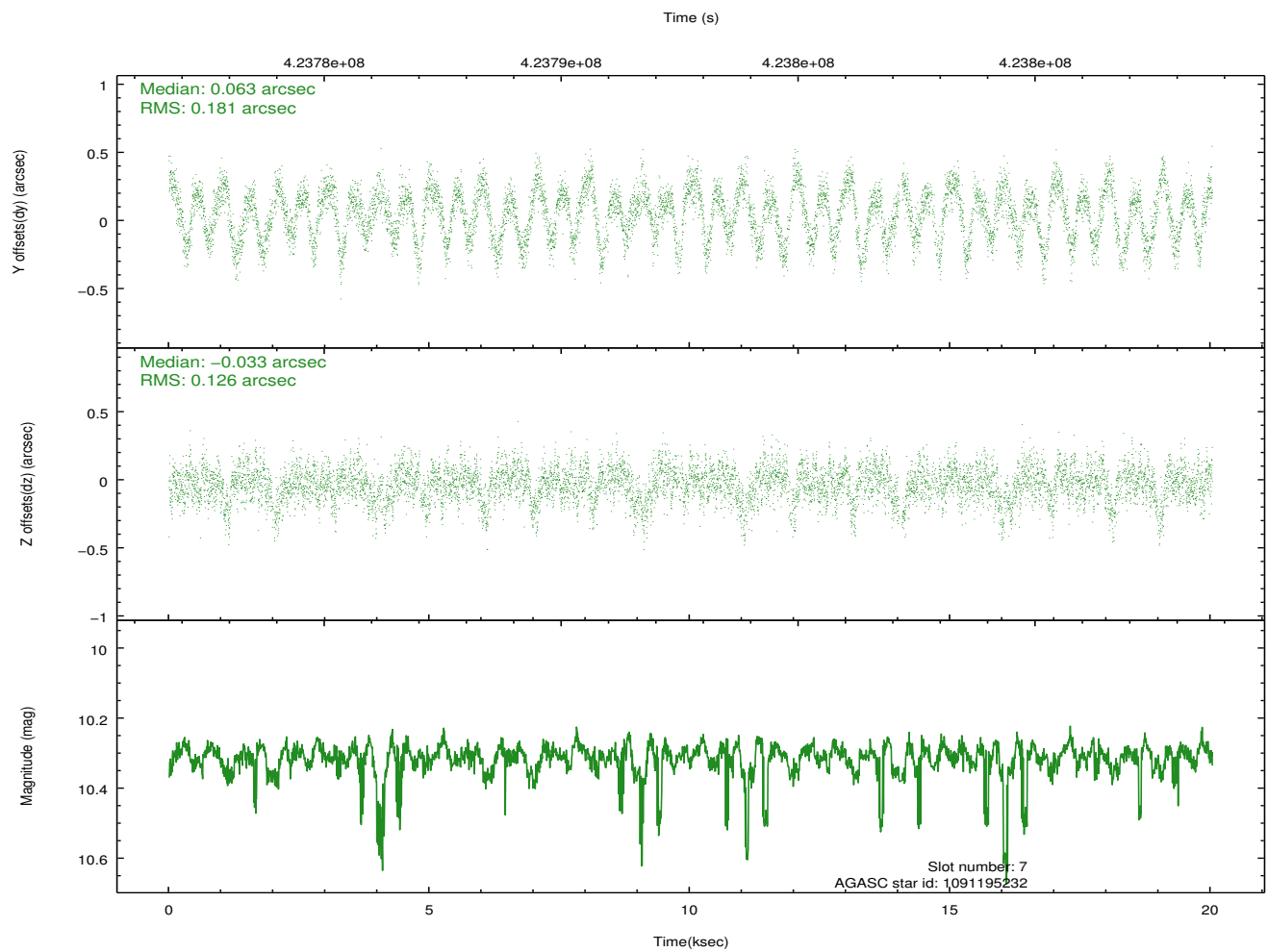
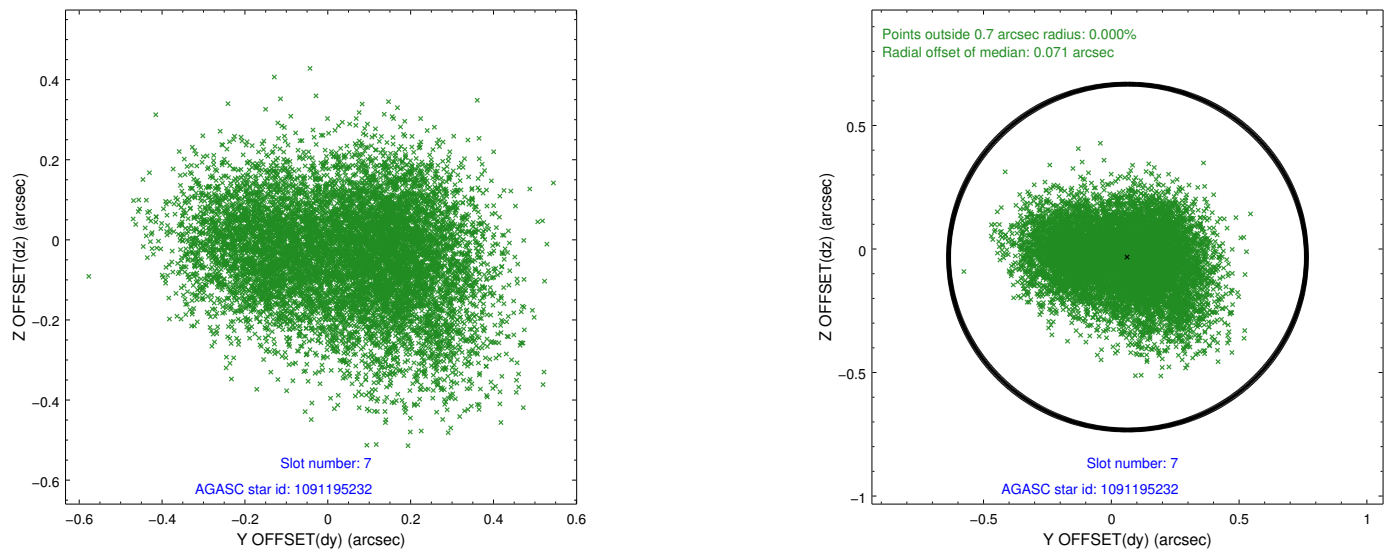
Time (s)



2.4.4 Slot 6

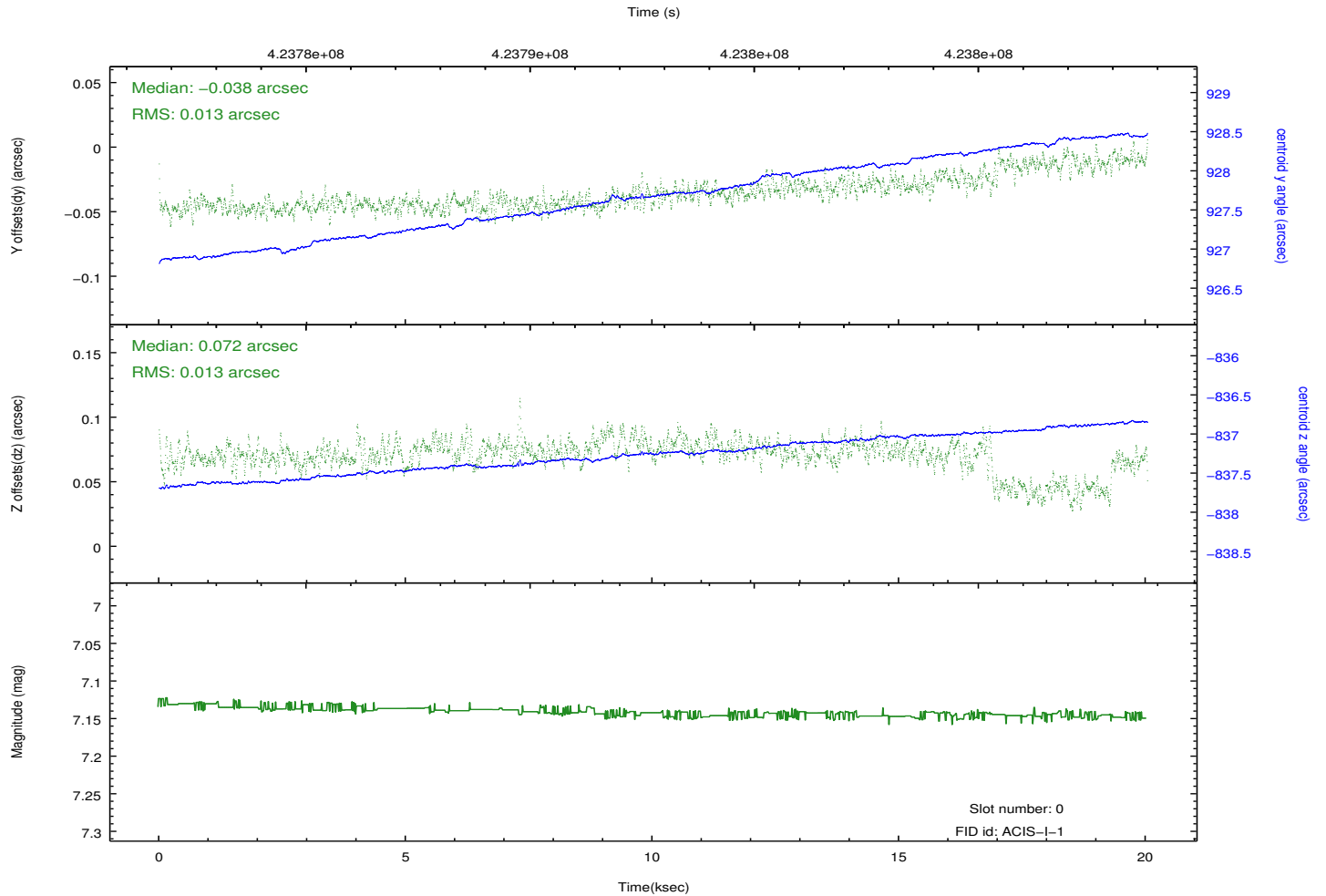
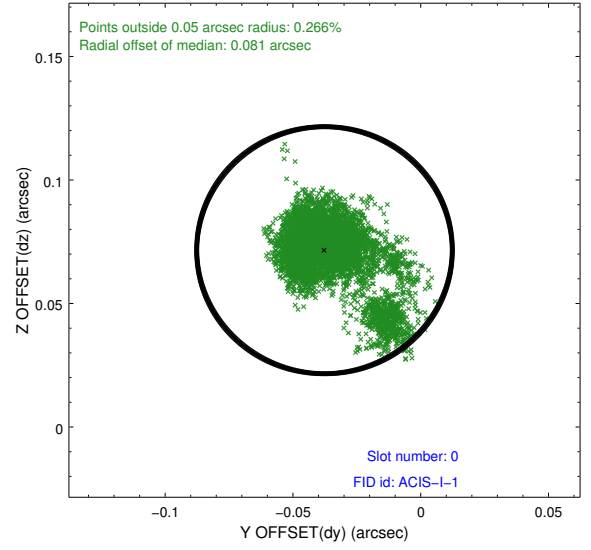
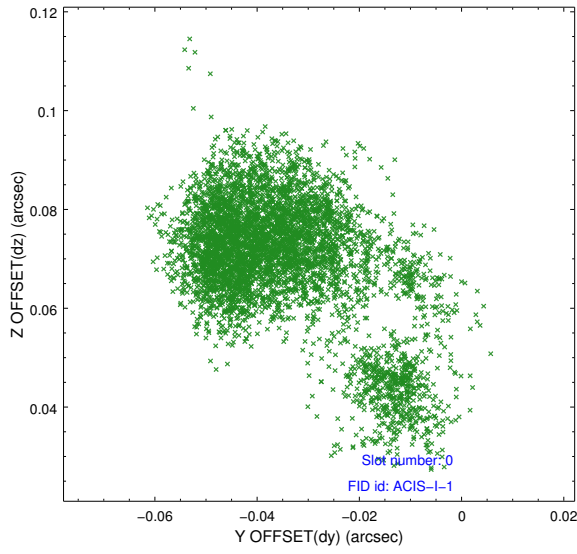


2.4.5 Slot 7

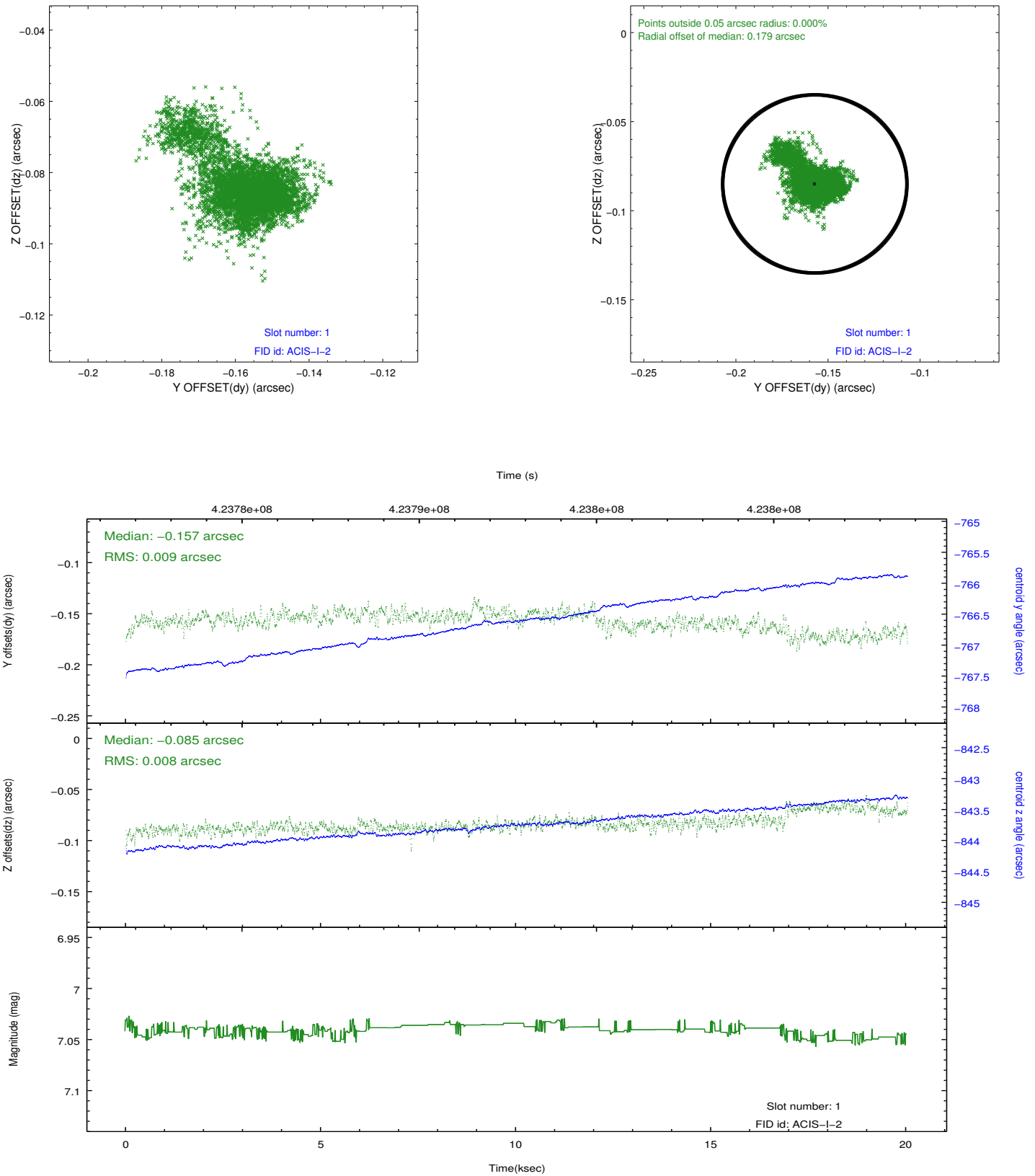


2.5 FID Slots

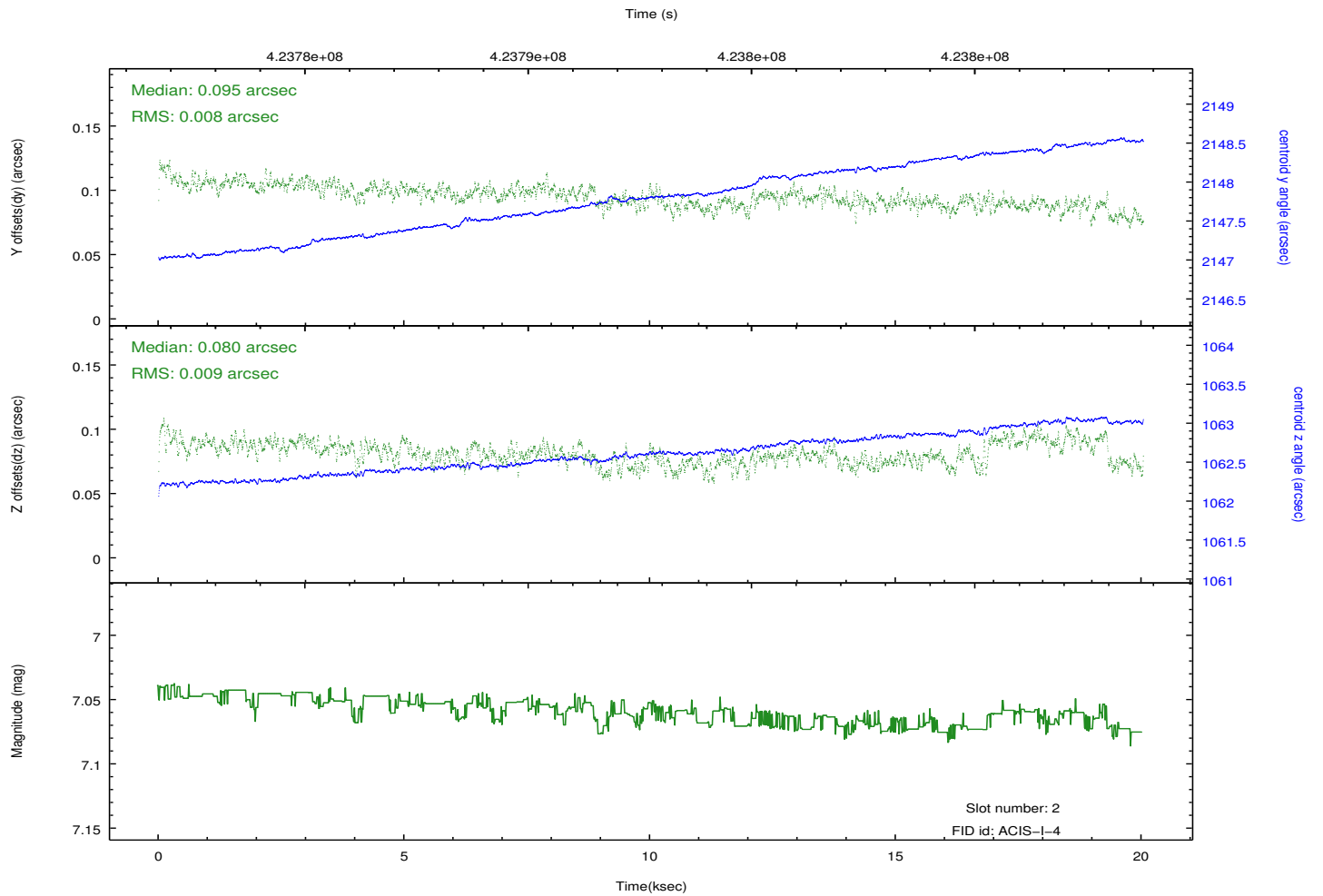
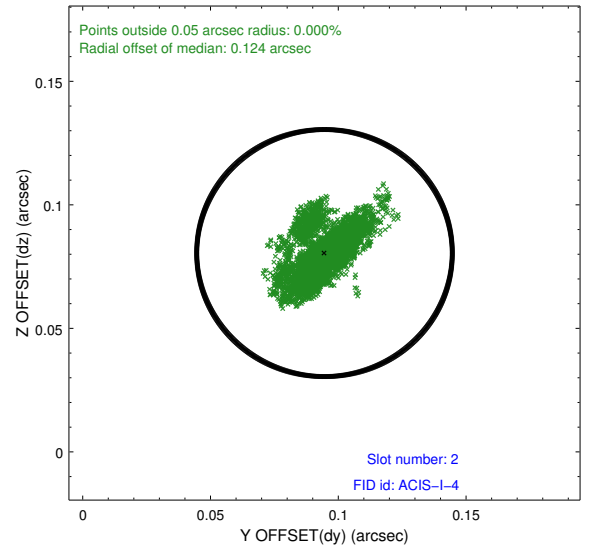
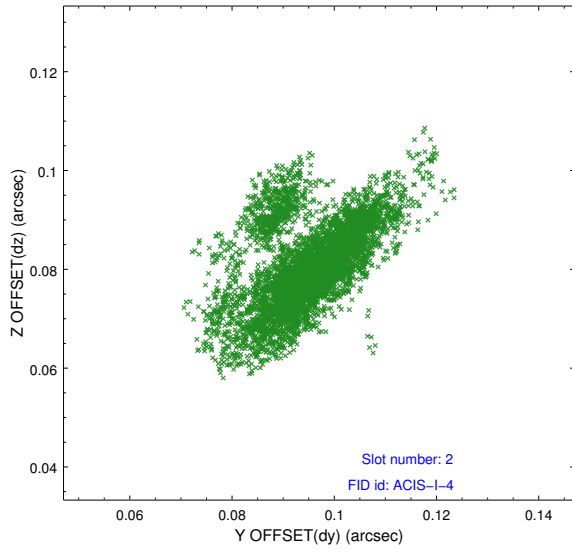
2.5.1 Slot 0



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)	2012.02.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.609599927008

A.2 Comments

Joint proposal: NOAO