

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8598 - L2 Version 2
Chandra X-Ray Center

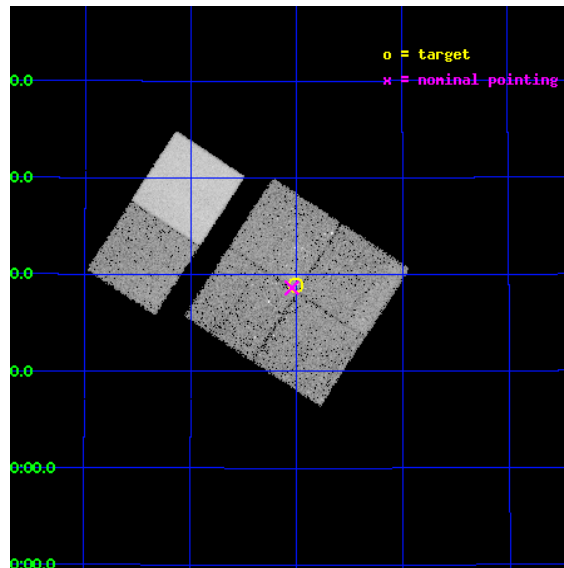
L2 Processing Date : May 5 2012

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1 Front

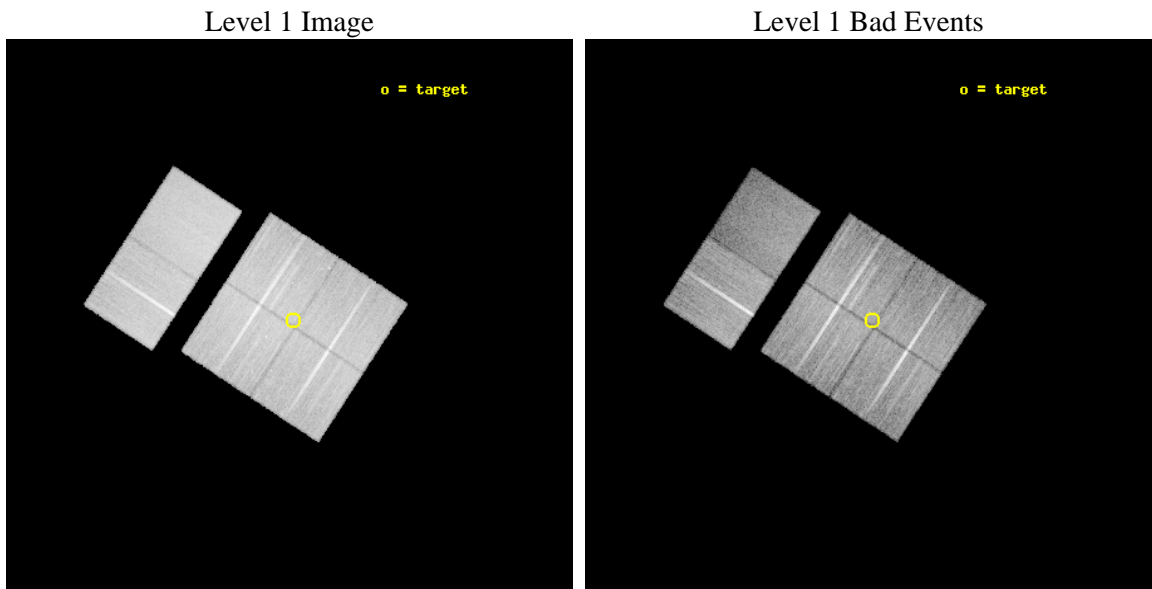
seq_num	200454	Sequence number
obs_id	8598	Observation id
title	The high-mass star forming region DR21	Proposal title
observer	Dr. Francesco Damiani	Principal investigator
object	DR 21	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	309.752917	Observer's specified target RA [deg]
dec_targ	42.315778	Observer's specified target Dec [deg]
ra_nom	309.76132457838	Nominal RA [deg]
dec_nom	42.310621910271	Nominal Dec [deg]
roll_nom	303.18303051737	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20751.958932459	Sum of GTIs [s]
livetime	20489.185133127	Livetime [s]
ontime0	20755.19992274	Sum of GTIs [s]
ontime1	20751.958932519	Sum of GTIs [s]
ontime2	20755.19992274	Sum of GTIs [s]
ontime3	20751.958932459	Sum of GTIs [s]
ontime6	20751.958972335	Sum of GTIs [s]
ontime7	20755.19992274	Sum of GTIs [s]
l2events	158921	Number of level 2 events



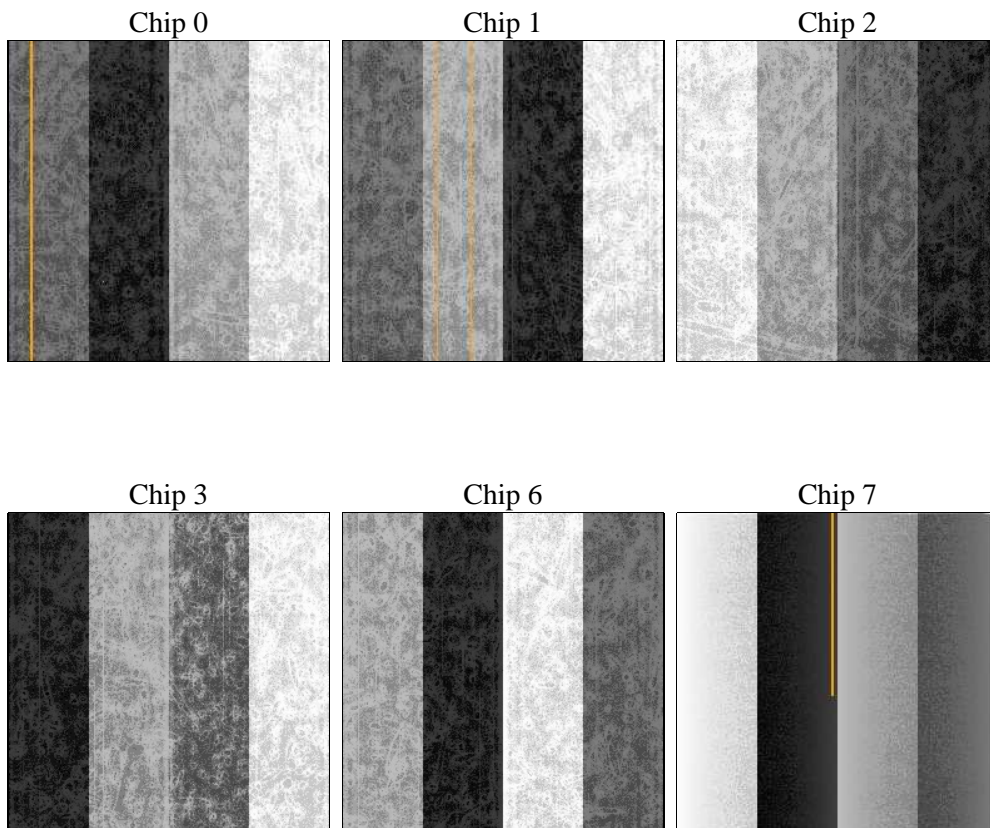
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20700.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	20751.958932459	Sum of GTIs [s]
caldbver	4.4.9	 	ontime0	20755.19992274	Sum of GTIs [s]
date	2012-05-05T05:44:08	Date and time of file creation	ontime1	20751.958932519	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	20755.19992274	Sum of GTIs [s]
			ontime3	20751.958932459	Sum of GTIs [s]
			ontime6	20751.958972335	Sum of GTIs [s]
			ontime7	20755.19992274	Sum of GTIs [s]
			l1events	1017682	Number of level 1 events

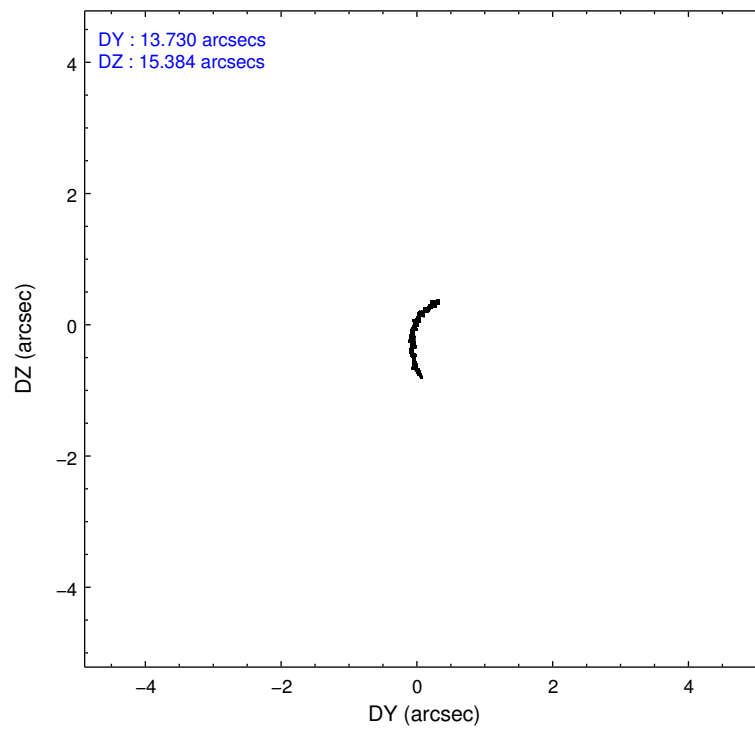
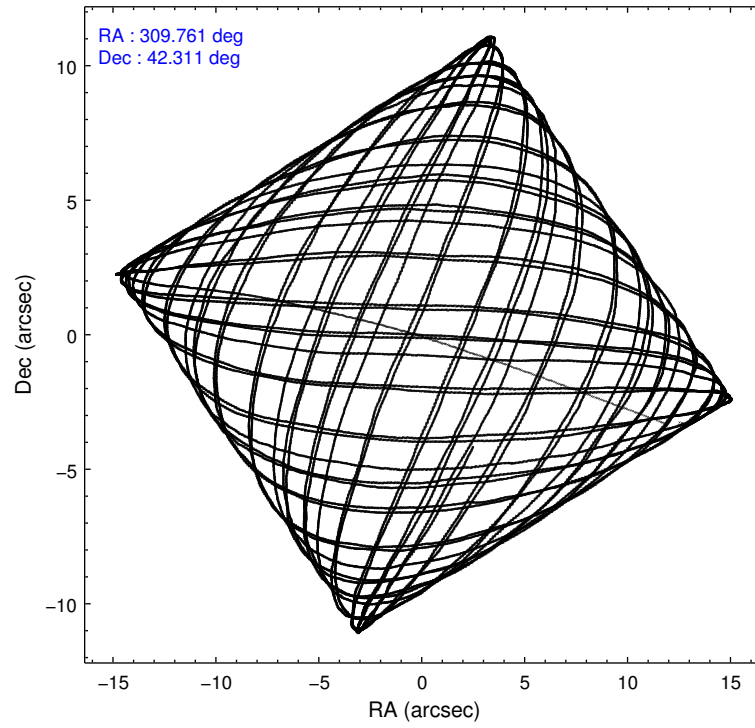
2.1.4 Events

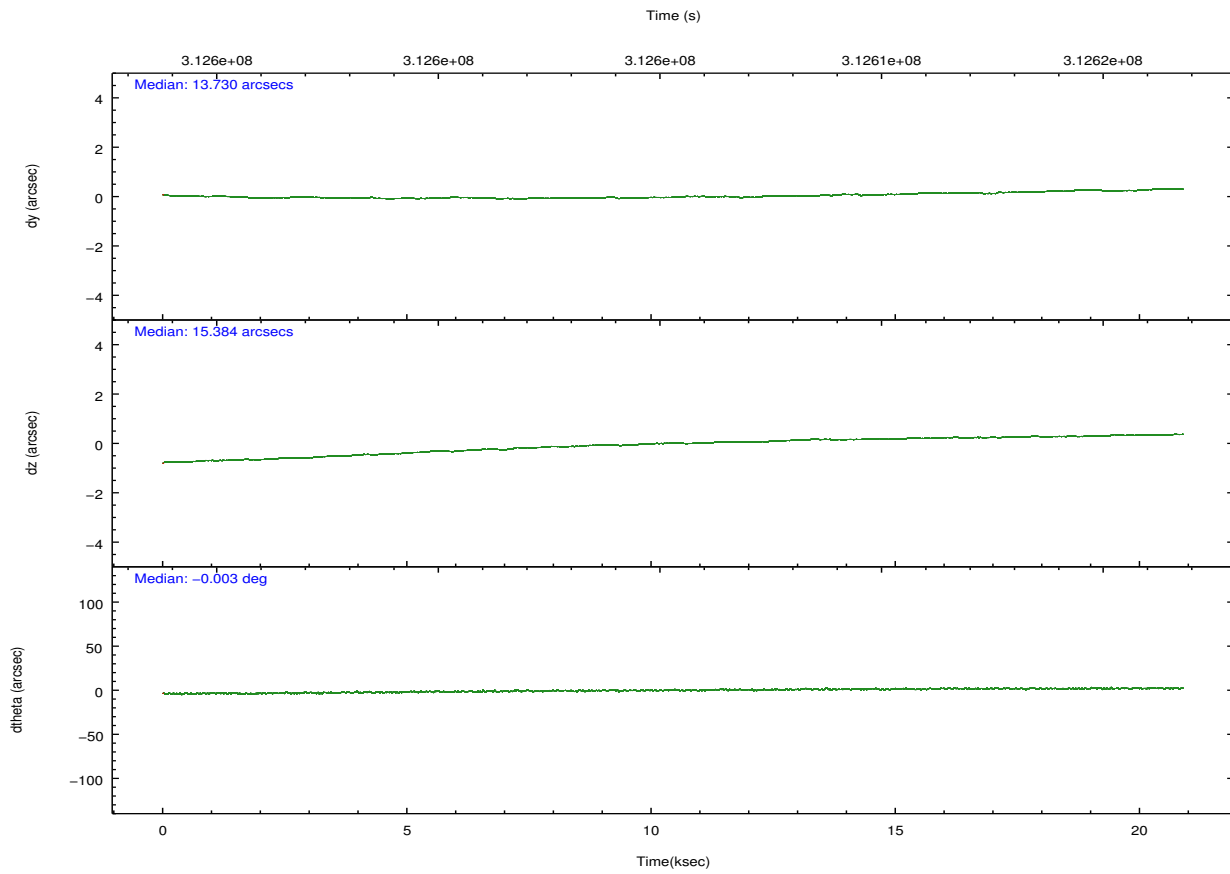
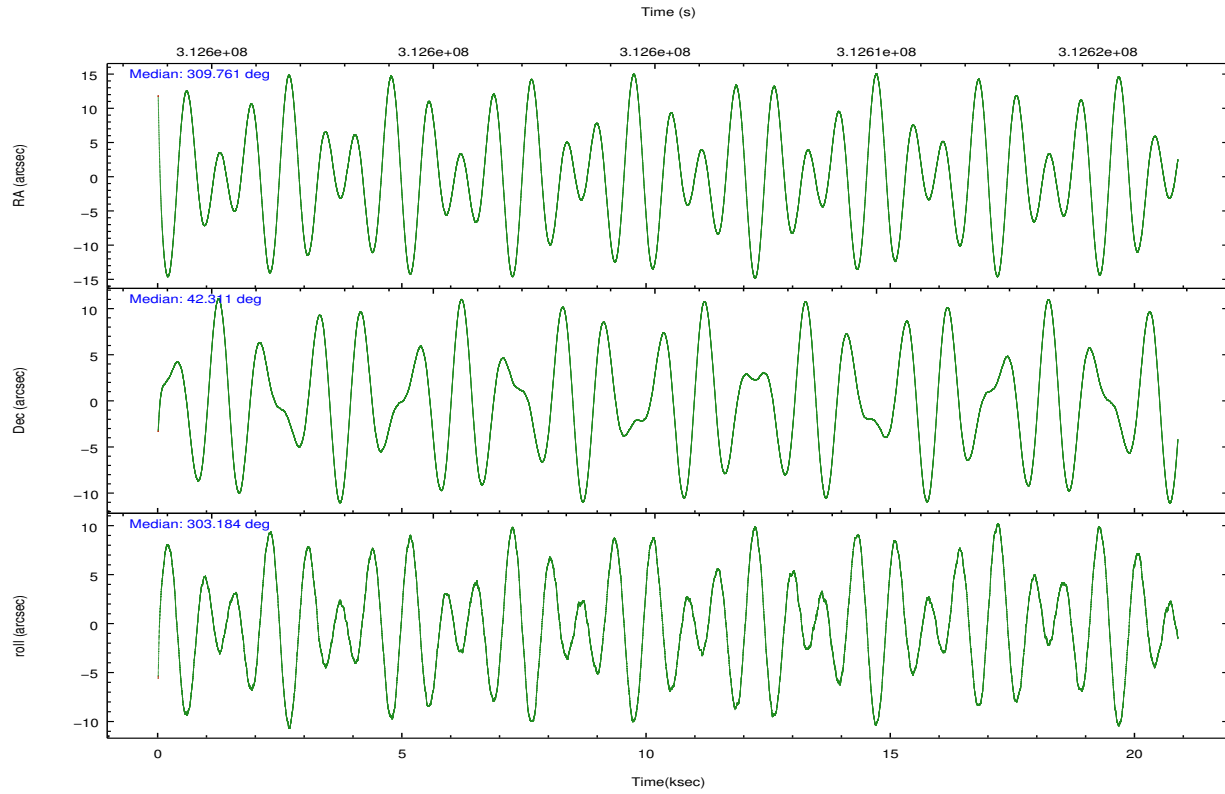
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	156096	153416	176413	169796	175232	186729	grade 0 events	6899	7527	6881	7426	6128	7902
rejected events	138060	134008	159045	151592	157596	101285		4%	4%	3%	4%	3%	4%
rejected %	88%	87%	90%	89%	89%	54%	grade 1 events	88	86	119	96	95	256
								0%	0%	0%	0%	0%	0%
							grade 2 events	4251	4215	4101	3707	3896	17274
								2%	2%	2%	2%	2%	9%
							grade 3 events	1919	2029	1701	1864	1887	8001
								1%	1%	0%	1%	1%	4%
							grade 4 events	1756	1973	1726	1912	1857	7772
								1%	1%	0%	1%	1%	4%
							grade 5 events	5769	6328	5606	6678	6827	19642
								3%	4%	3%	3%	3%	10%
							grade 6 events	3217	3671	2969	3301	3874	44518
								2%	2%	1%	1%	2%	23%
							grade 7 events	132197	127587	153310	144812	150668	81364
								84%	83%	86%	85%	85%	43%

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	309.728088	309.761324578378	CCD I2 on	Y	Y
[deg] Pointing Dec	42.322938	42.31062191027054	CCD I3 on	Y	Y
[deg] Pointing Roll	302.996715	303.183030517369	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	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	312595038.184000	312594026.06077	CCD S5 on	N	N
Observation start date	2007-11-27T23:56:13	2007-11-27T23:40:26	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	312615738.184000	312616386.43685	On-chip summing requested	N	N
Observation end date	2007-11-28T05:41:13	2007-11-28T05:53:06	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



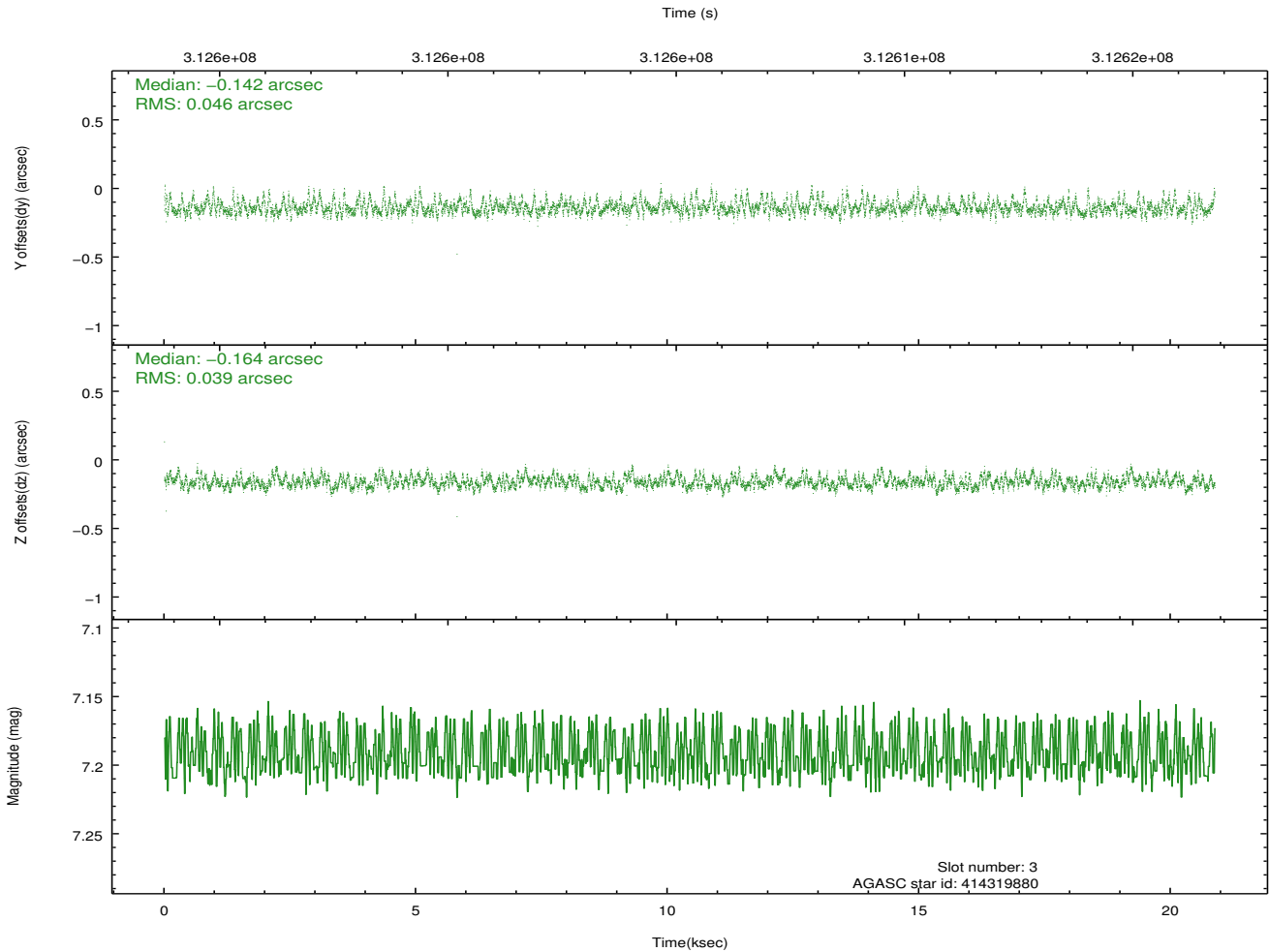
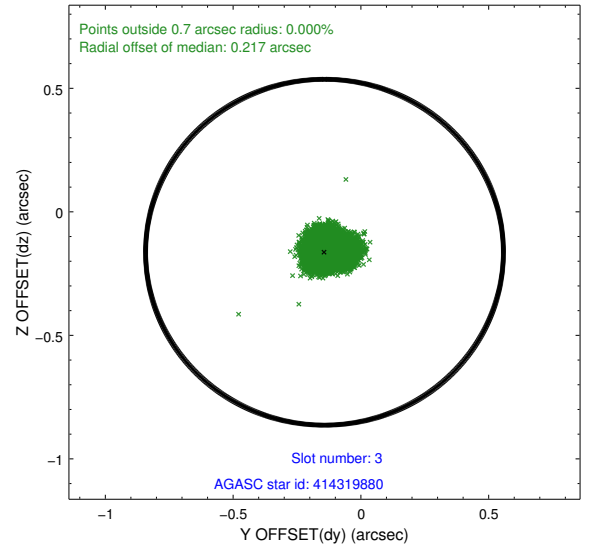
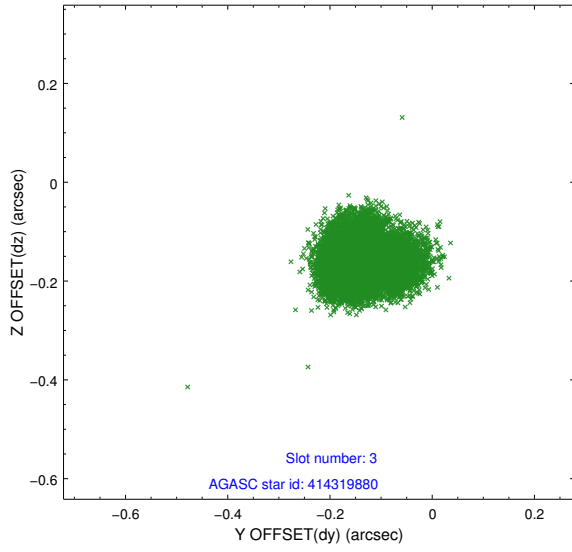


Slot Statistics

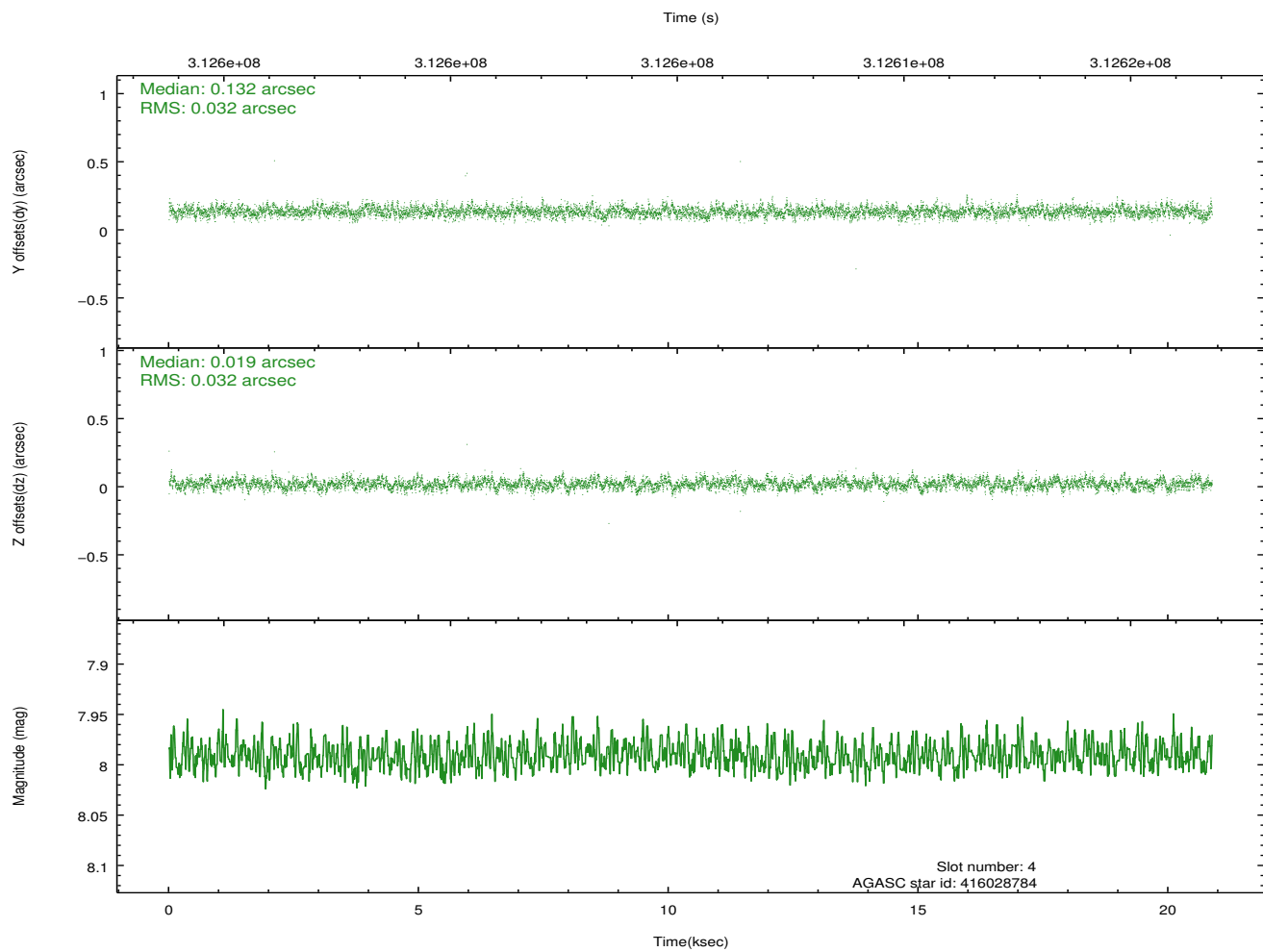
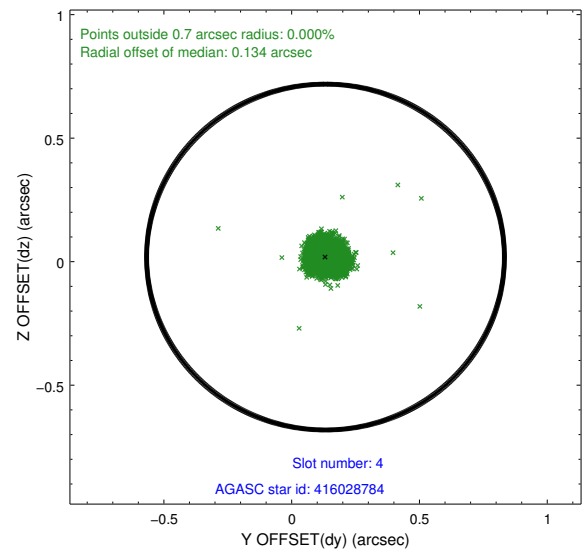
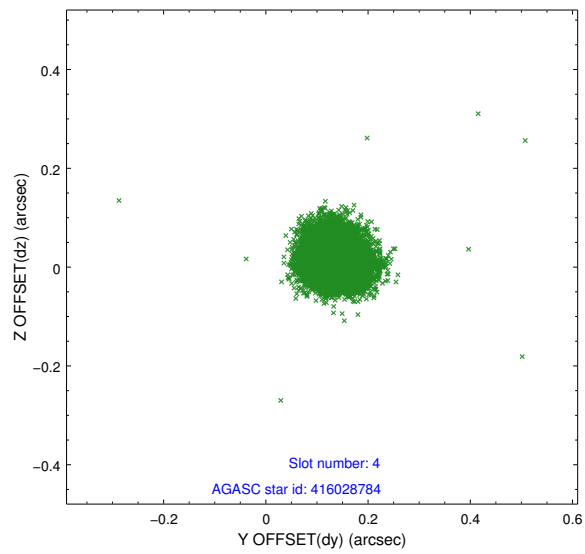
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	5092	0.077	-0.022	0.012	0.021	0.000000	0.000000	925.82	-838.90
1	FID	ACIS-I-2	7.14	5091	-0.044	-0.025	0.012	0.027	0.000000	0.000000	-768.29	-845.47
2	FID	ACIS-I-5	7.22	5093	-0.127	0.121	0.014	0.023	0.000000	0.000000	-1822.77	1058.57
3	GUIDE	414319880	7.19	10185	-0.142	-0.164	0.063	0.105	309.495433	42.845641	-1914.20	511.50
4	GUIDE	416028784	7.99	10182	0.132	0.019	0.047	0.076	310.446946	42.008694	1989.20	1001.25
5	GUIDE	414322040	8.09	10181	-0.060	0.146	0.052	0.083	309.251919	42.770338	-2038.88	-175.99
6	GUIDE	416031440	7.69	10182	-0.026	-0.040	0.059	0.094	310.484743	42.524801	476.07	2084.96
7	GUIDE	416029472	8.54	10180	0.091	0.037	0.058	0.095	310.573870	41.936611	2390.76	1149.02

2.4 Star Slots

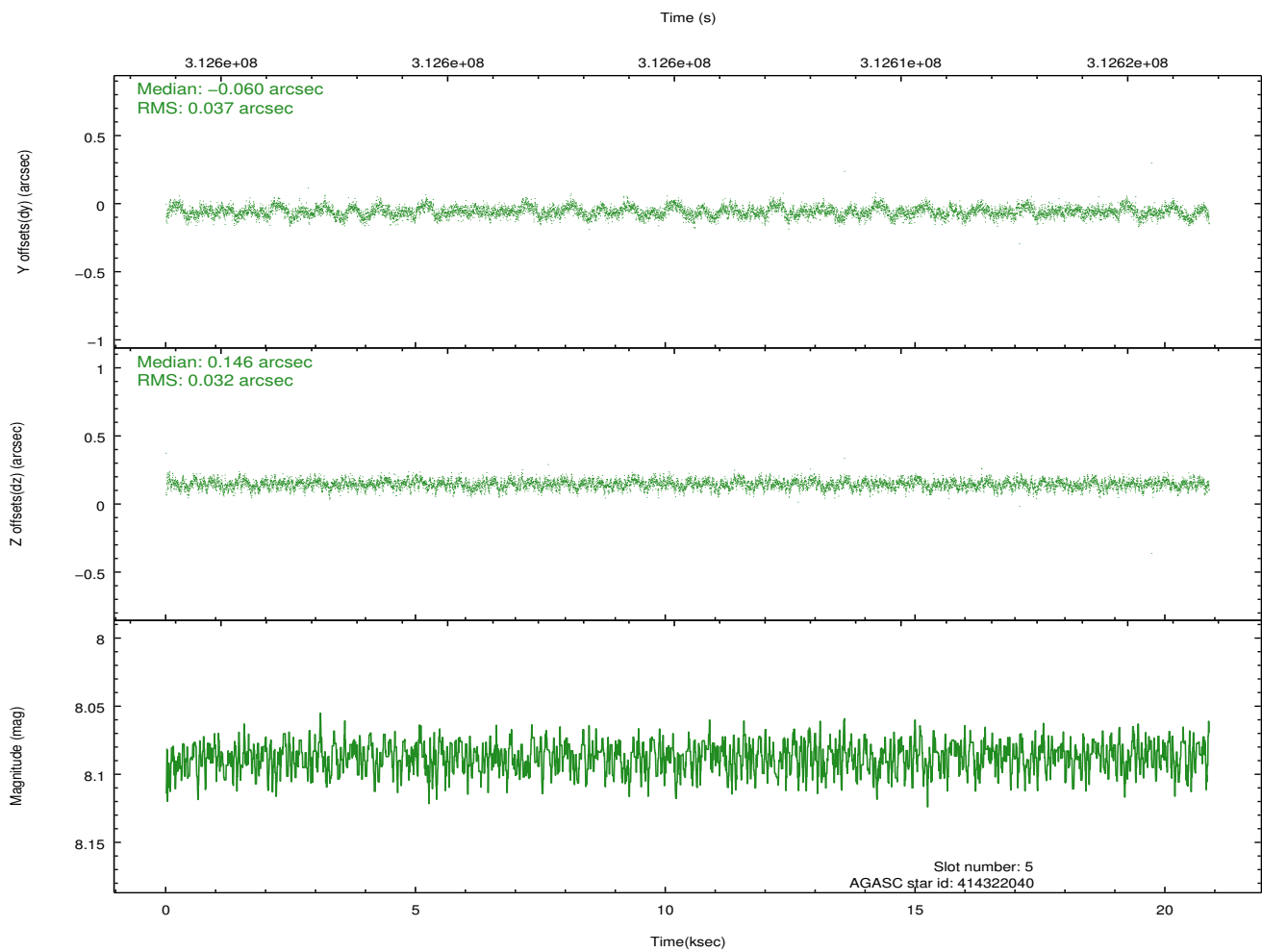
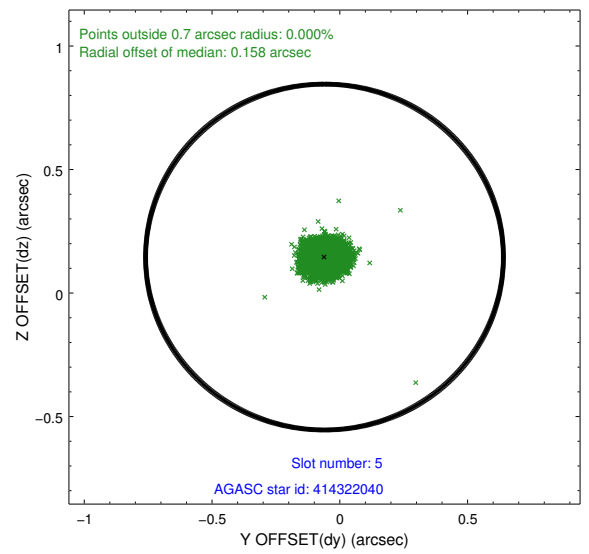
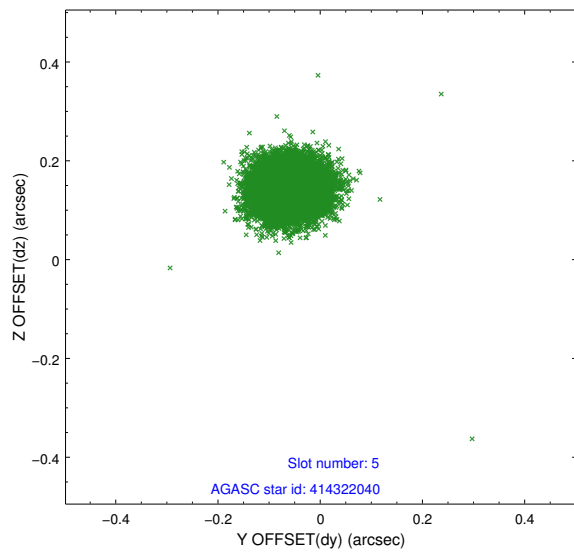
2.4.1 Slot 3



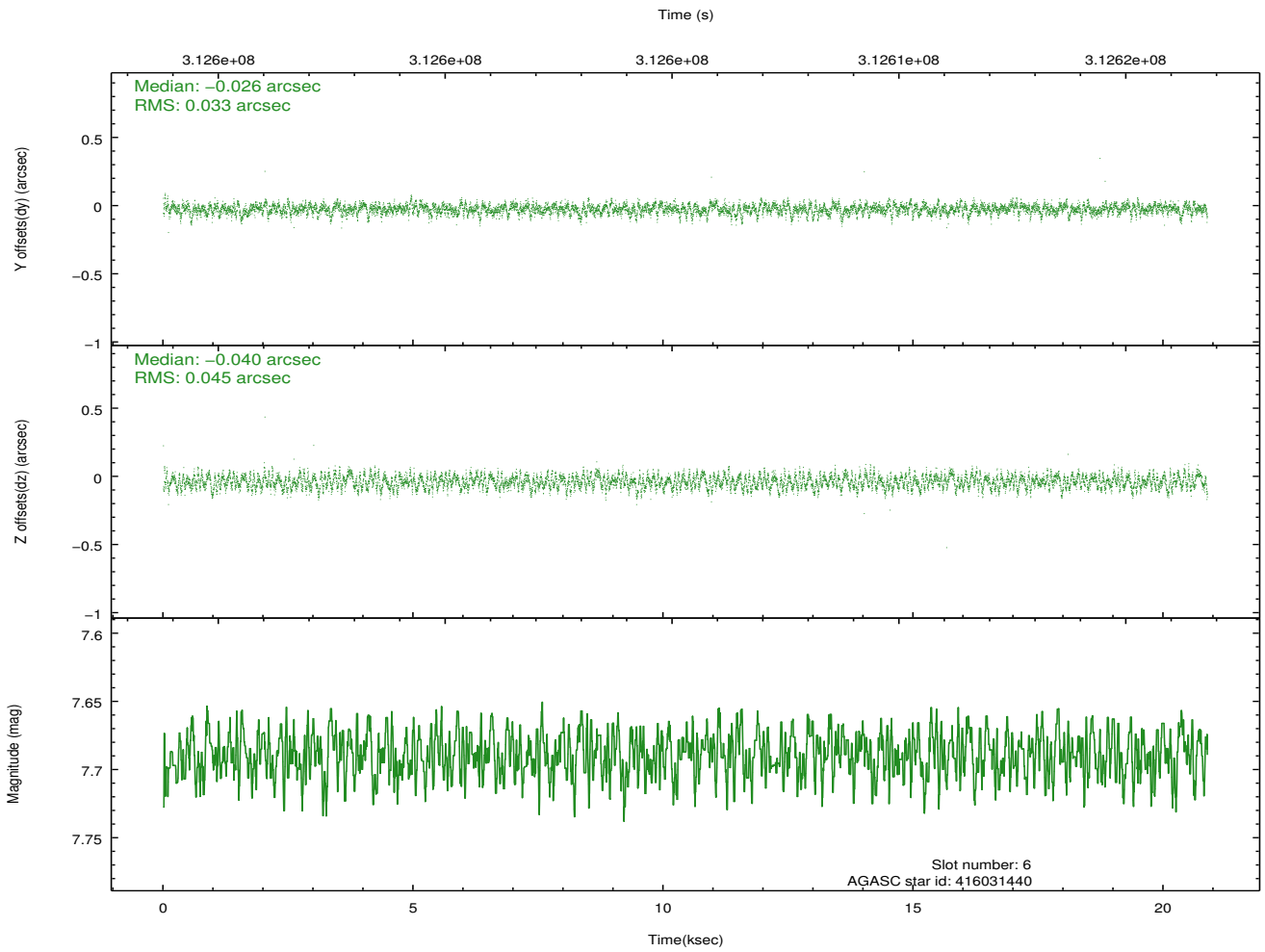
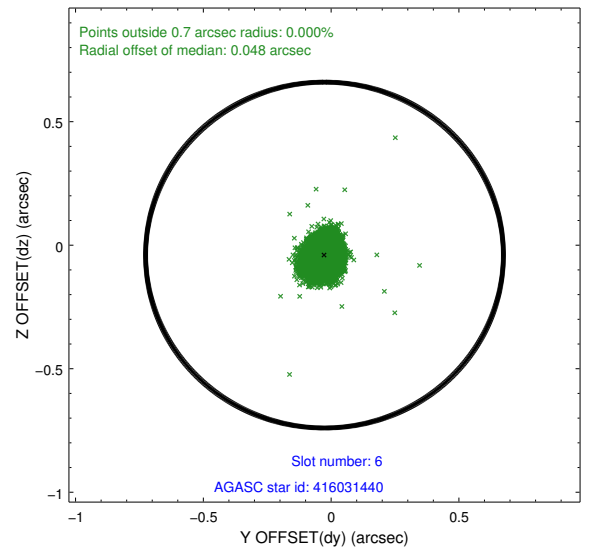
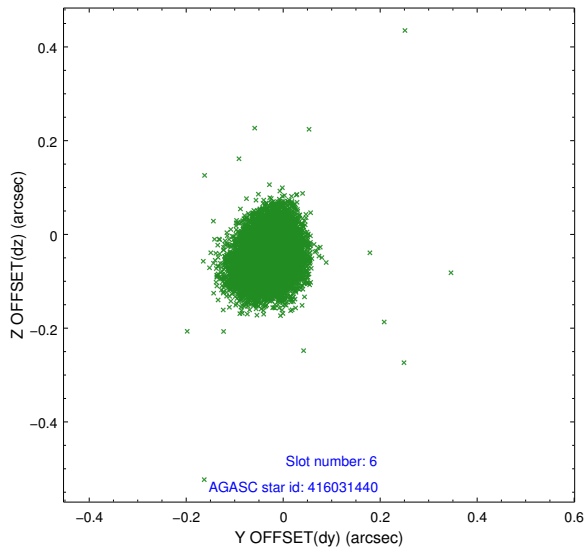
2.4.2 Slot 4



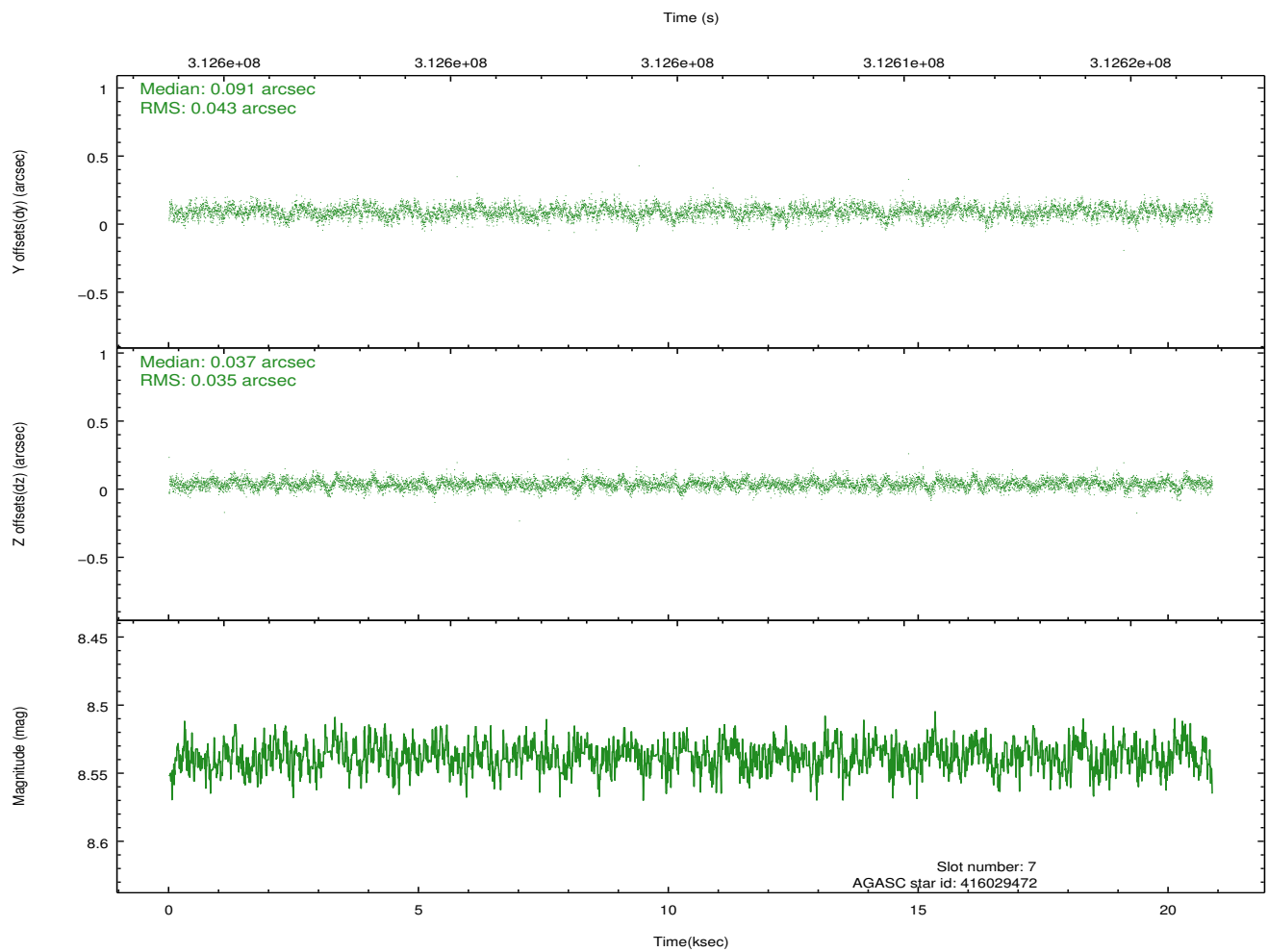
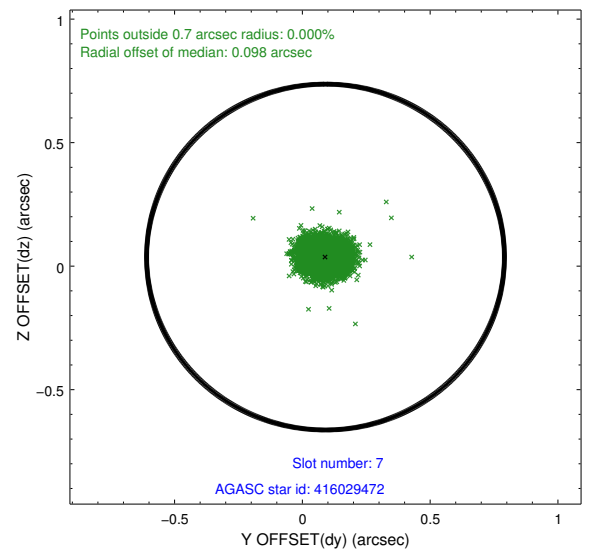
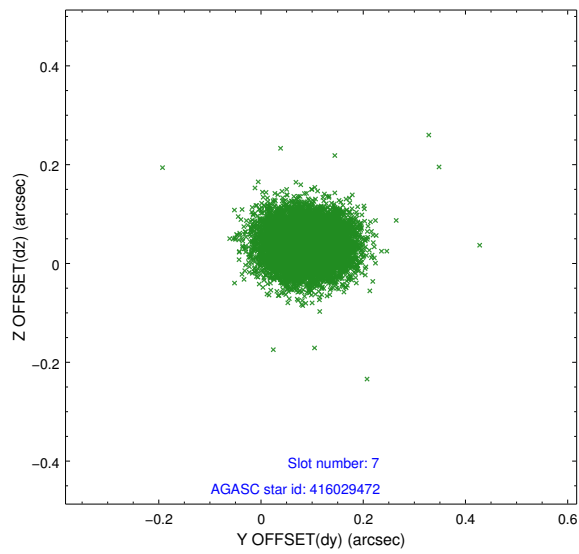
2.4.3 Slot 5



2.4.4 Slot 6

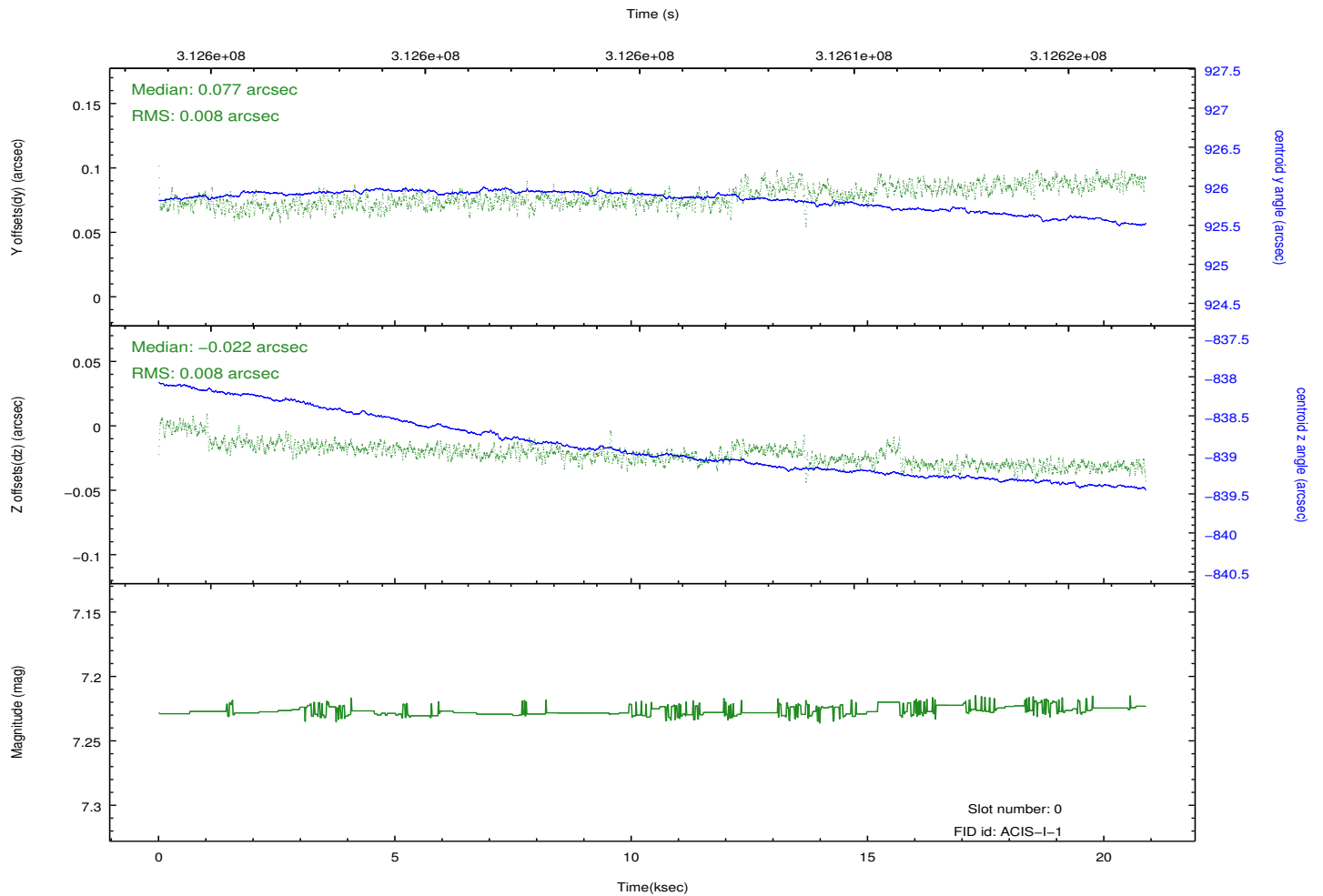
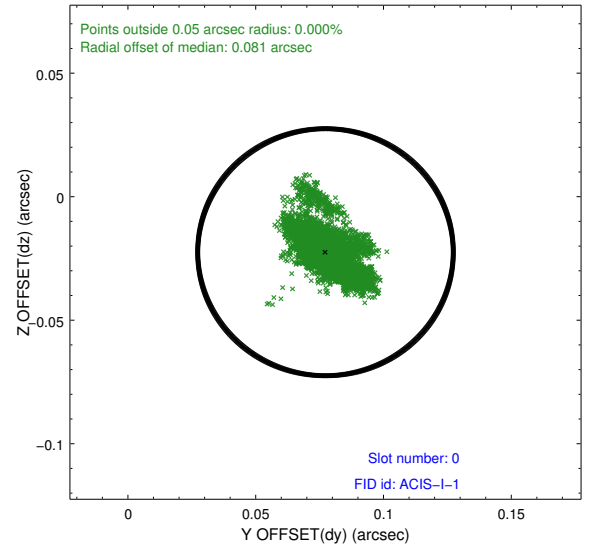
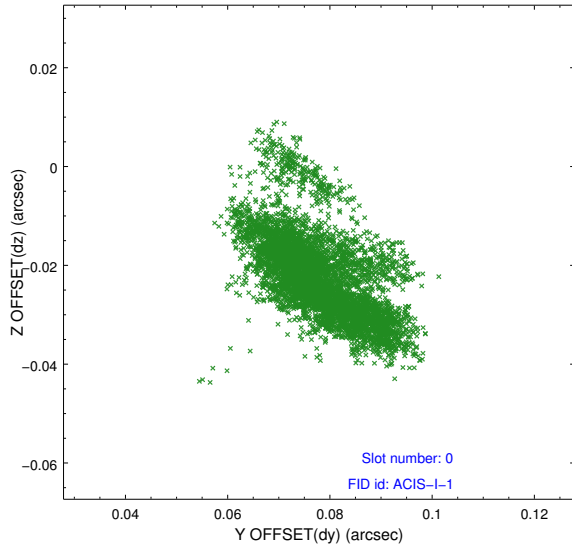


2.4.5 Slot 7

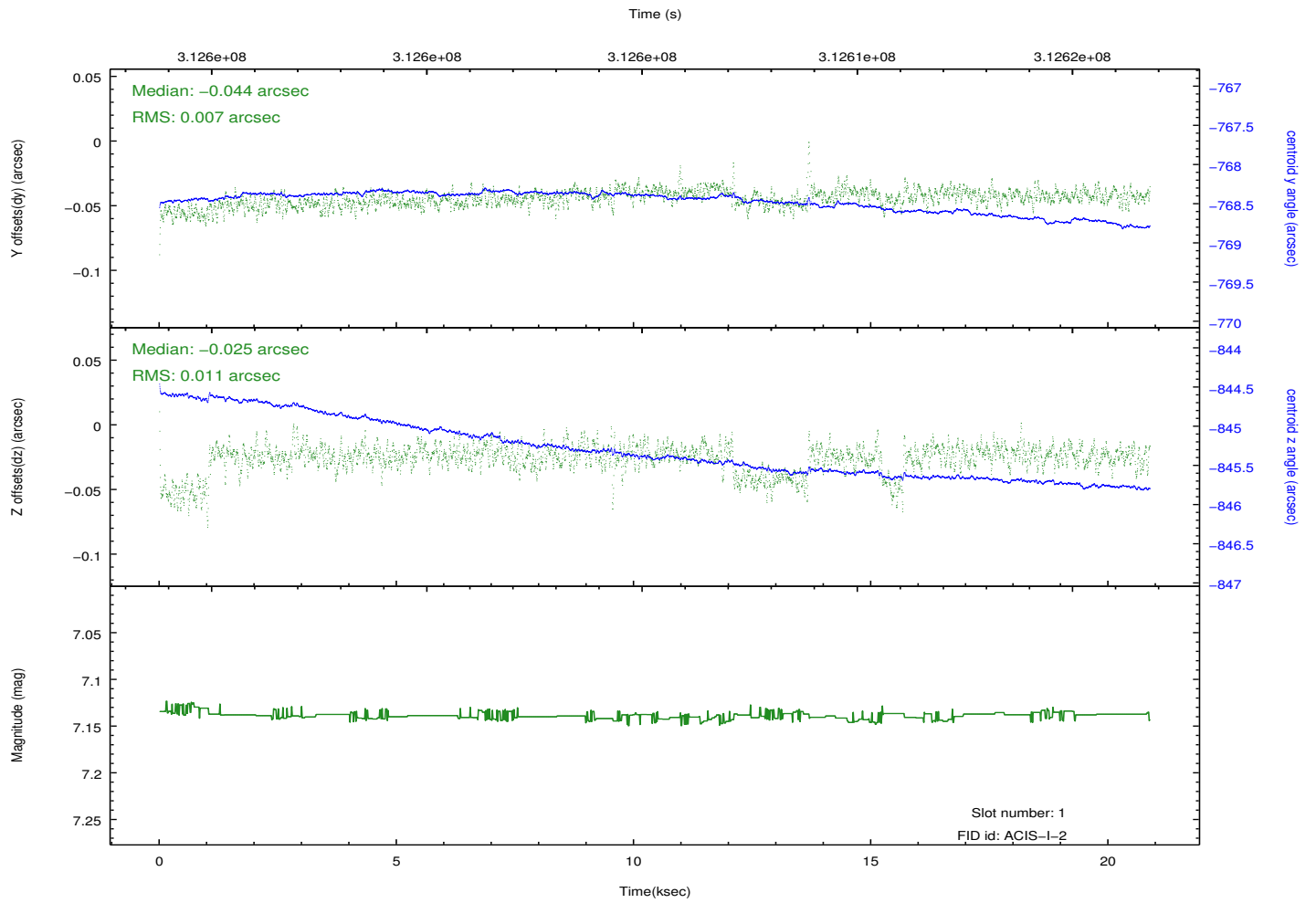
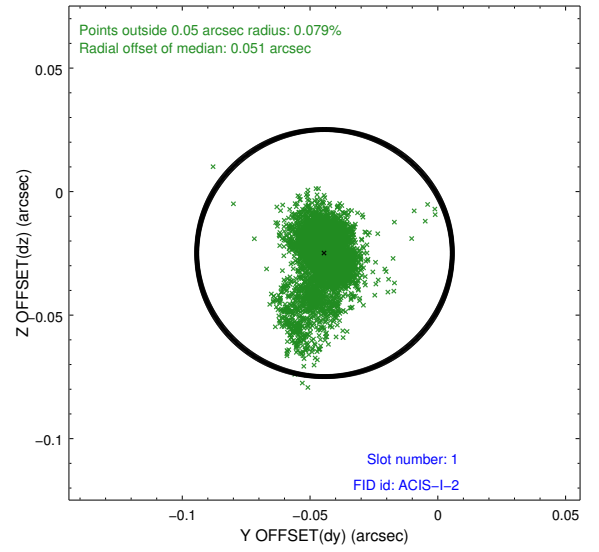
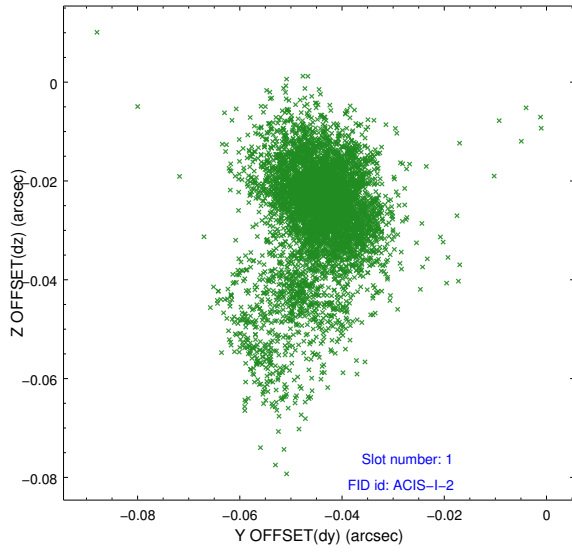


2.5 FID Slots

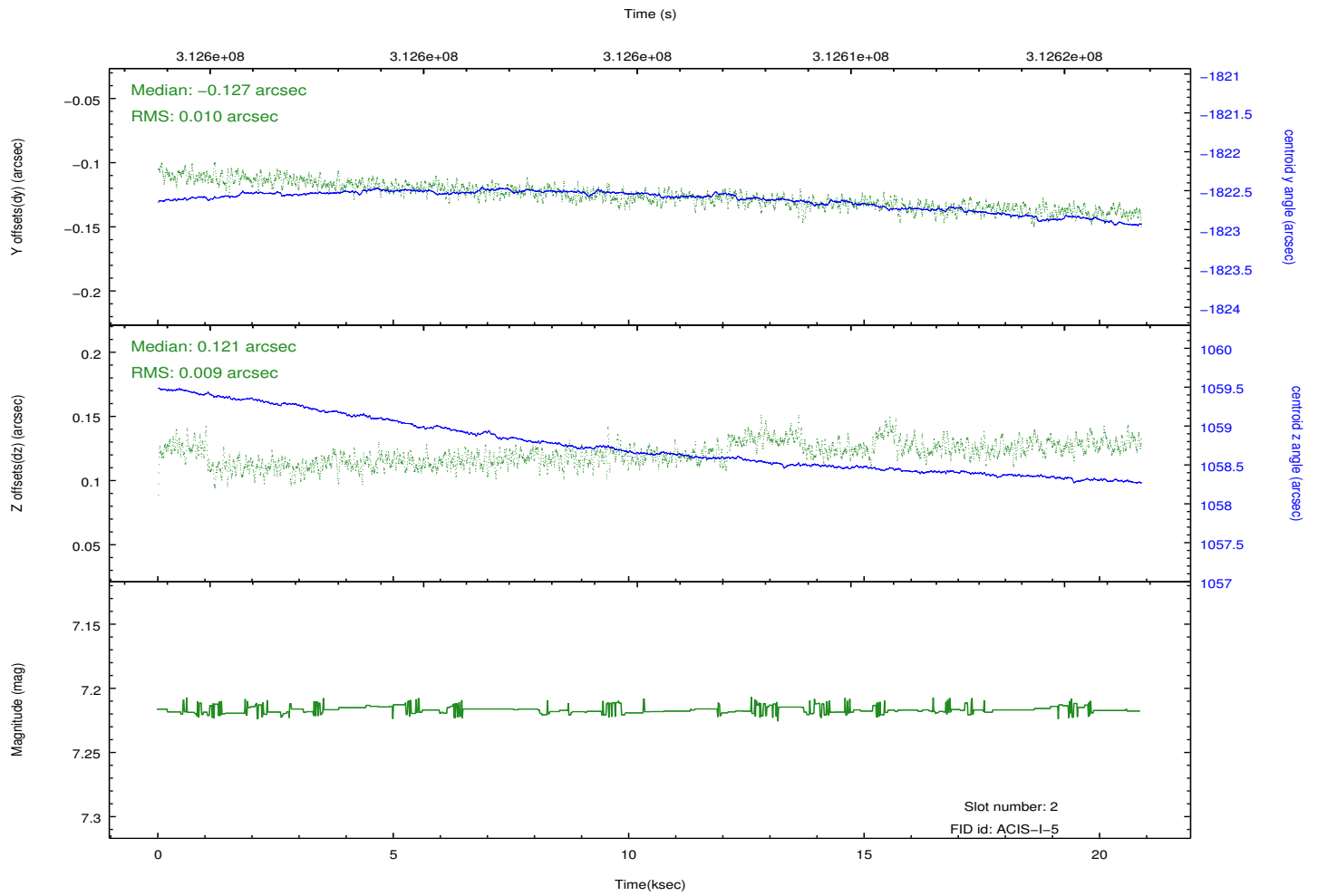
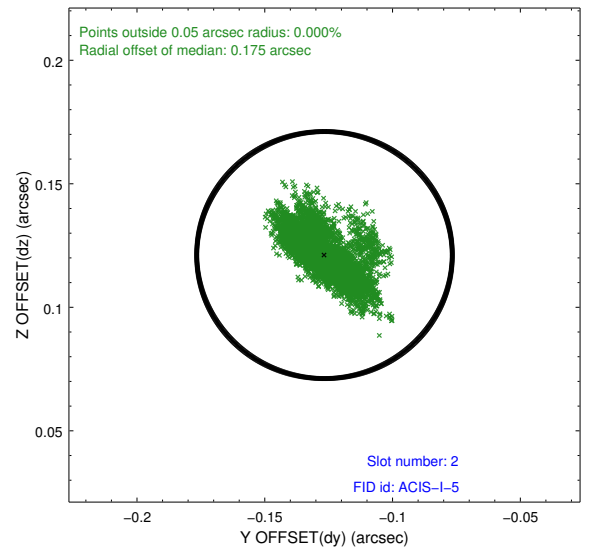
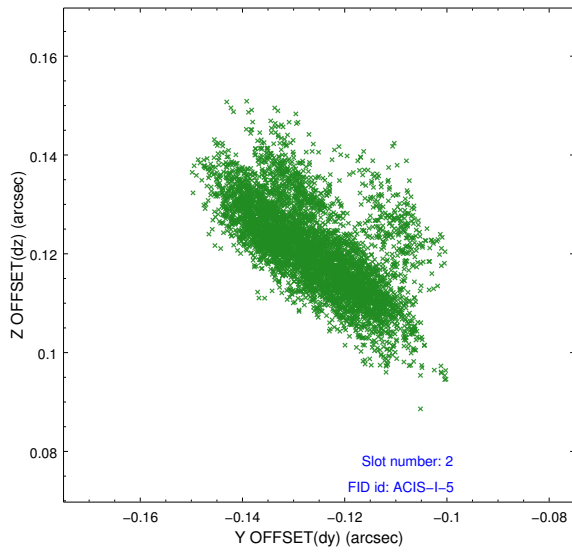
2.5.1 Slot 0



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)	2012.05.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.7519589

A.2 Comments