

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 16444 - L2 Version 1
Chandra X-Ray Center

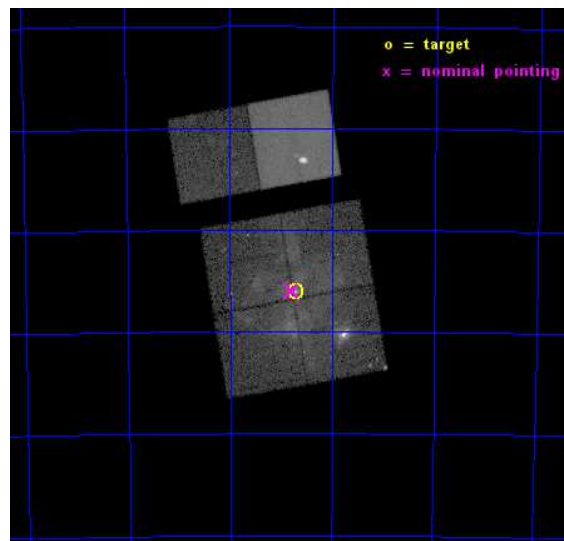
L2 Processing Date : Dec 29 2014

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1 Front

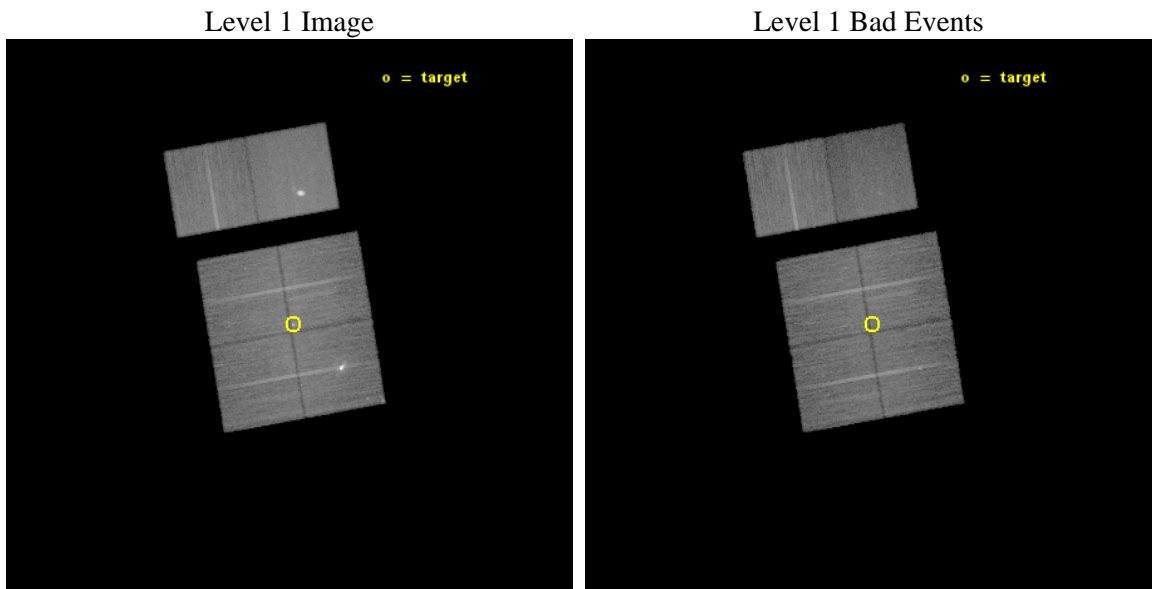
seq_num	901116	Sequence number
obs_id	16444	Observation id
title	The Tarantula -- Revealed by X-rays (T-ReX): A Definitive Chandra Investigation of 30 Doradus	Proposal title
observer	Dr. Leisa Townsley	Principal investigator
object	30 Doradus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	84.676667	Observer's specified target RA [deg]
dec_targ	-69.100806	Observer's specified target Dec [deg]
ra_nom	84.699385773745	Nominal RA [deg]
dec_nom	-69.099719888418	Nominal Dec [deg]
roll_nom	350.22991409882	Nominal Roll [deg]
revision	1	Processing version of data
ontime	41971.199843705	Sum of GTIs [s]
livetime	41439.735239261	Livetime [s]
ontime0	41967.958893239	Sum of GTIs [s]
ontime1	41967.958863378	Sum of GTIs [s]
ontime2	41967.958883286	Sum of GTIs [s]
ontime3	41971.199843705	Sum of GTIs [s]
ontime6	41967.958863378	Sum of GTIs [s]
ontime7	41971.199843705	Sum of GTIs [s]
l2events	272348	Number of level 2 events



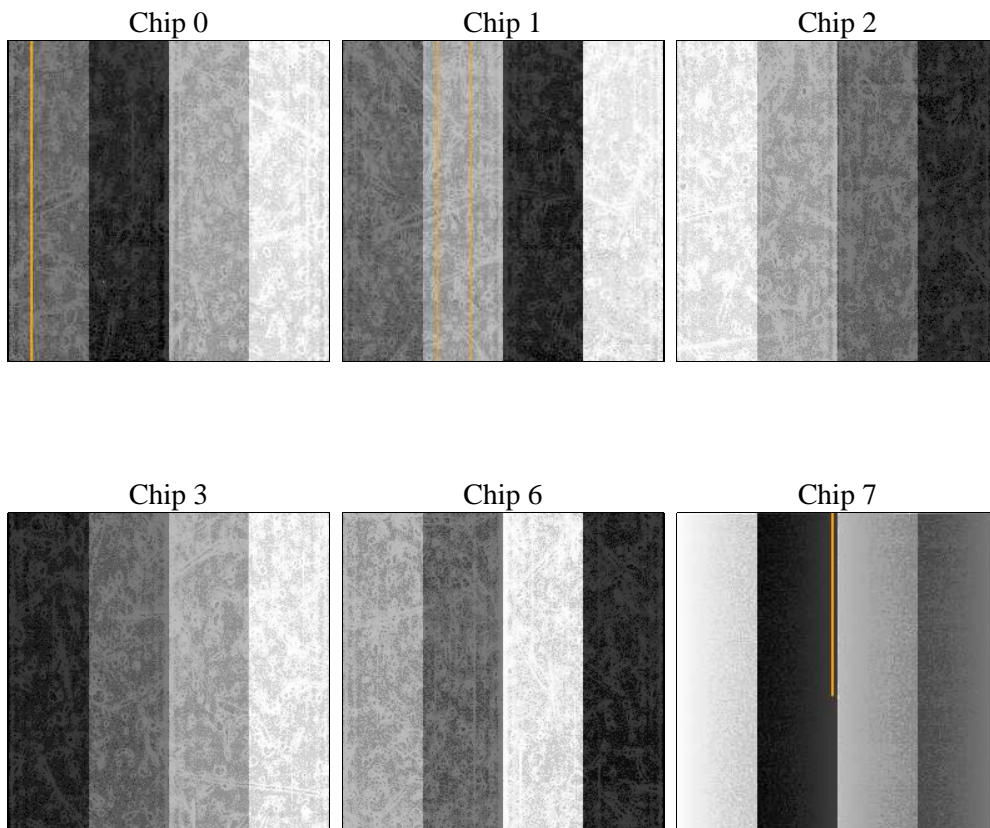
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	42000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	41971.199843705	Sum of GTIs [s]
caldsver	4.6.5	 	ontime0	41967.958893239	Sum of GTIs [s]
date	2014-12-29T05:05:31	Date and time of file creation	ontime1	41967.9588863378	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	41967.958883286	Sum of GTIs [s]
			ontime3	41971.199843705	Sum of GTIs [s]
			ontime6	41967.958863378	Sum of GTIs [s]
			ontime7	41971.199843705	Sum of GTIs [s]
			l1events	1147500	Number of level 1 events

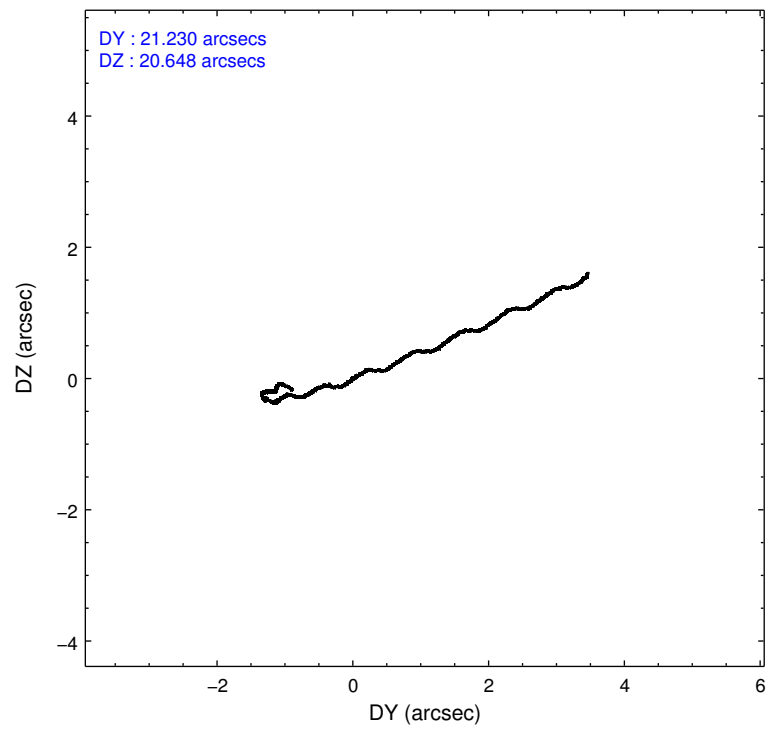
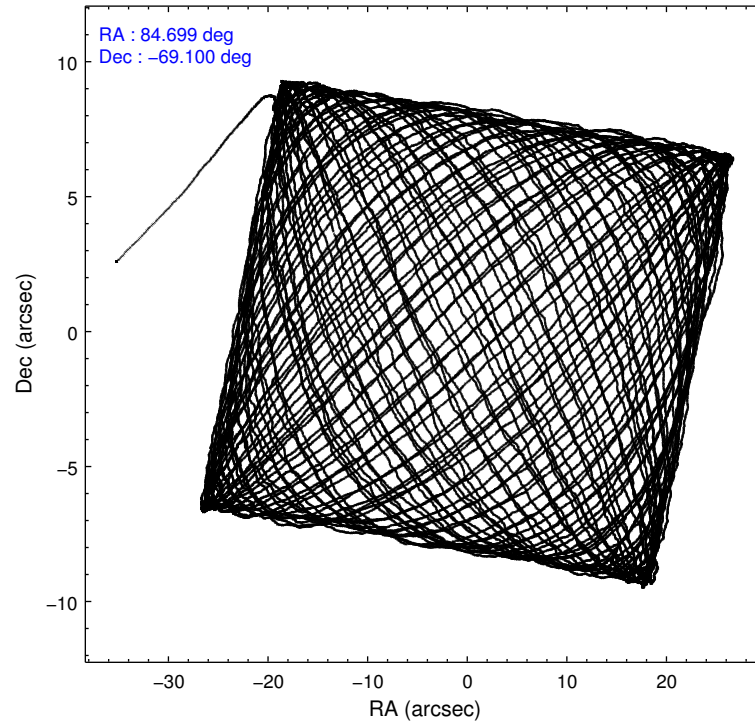
2.1.4 Events

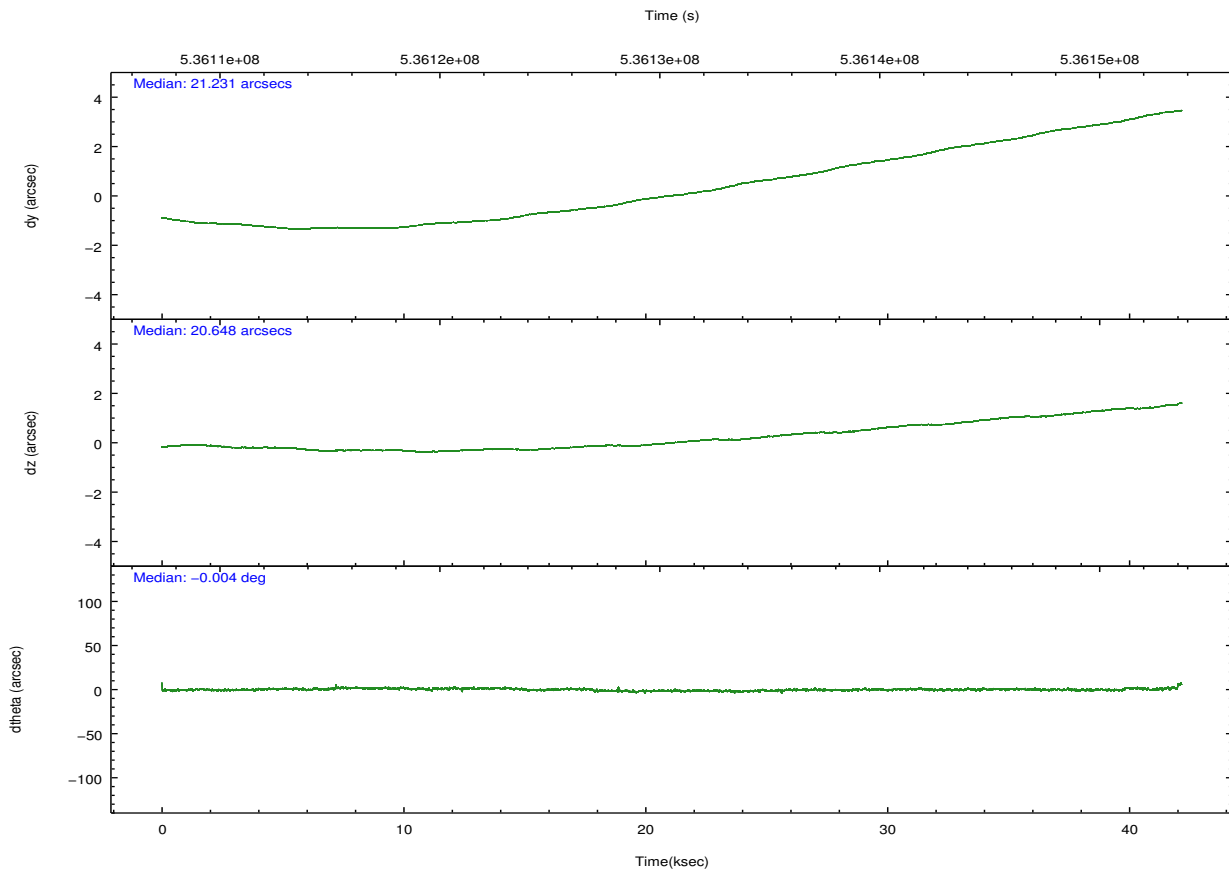
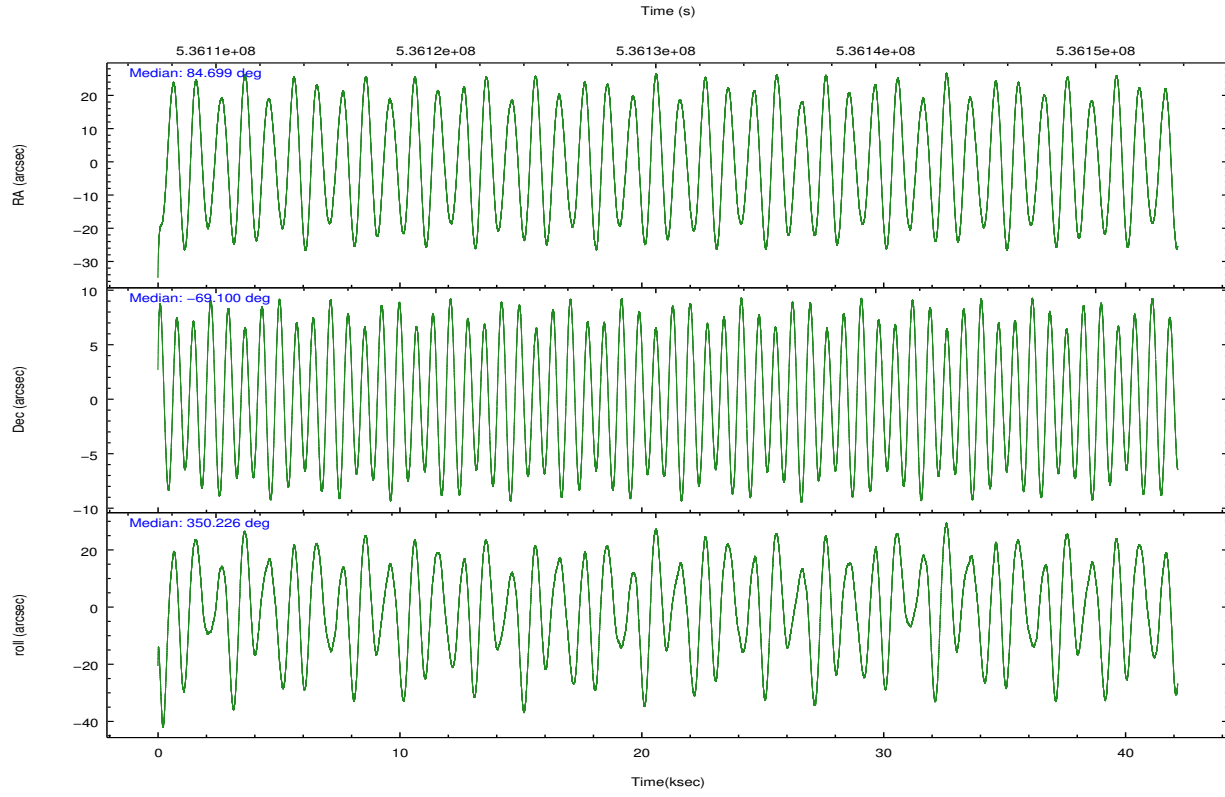
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	170264	195497	179379	188249	184697	229414	grade 0 events	15724	36702	15603	21157	9110	16575
rejected events	139551	137994	149582	152142	161067	110222		9%	18%	8%	11%	4%	7%
rejected %	81%	70%	83%	80%	87%	48%	grade 1 events	122	275	141	185	107	320
								0%	0%	0%	0%	0%	0%
							grade 2 events	6069	8930	5853	5822	5282	27007
								3%	4%	3%	3%	2%	11%
							grade 3 events	2400	3276	2109	2383	2235	10847
								1%	1%	1%	1%	1%	4%
							grade 4 events	2309	3136	2296	2481	2226	10606
								1%	1%	1%	1%	1%	4%
							grade 5 events	7272	7964	6990	8165	8173	22748
								4%	4%	3%	4%	4%	9%
							grade 6 events	4214	5465	3940	4270	4777	54173
								2%	2%	2%	2%	2%	23%
							grade 7 events	132154	129749	142447	143786	152787	87138
								77%	66%	79%	76%	82%	37%

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	84.626870	84.69938577374489	CCD I2 on	Y	Y
[deg] Pointing Dec	-69.109354	-69.09971988841777	CCD I3 on	Y	Y
[deg] Pointing Roll	349.953470	350.2299140988156	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)	536109626.184000	536108338.73249	CCD S5 on	N	N
Observation start date	2014-12-27T23:19:19	2014-12-27T22:58:58	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	536151626.184000	536152513.15996	On-chip summing requested	N	N
Observation end date	2014-12-28T10:59:19	2014-12-28T11:15:13	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





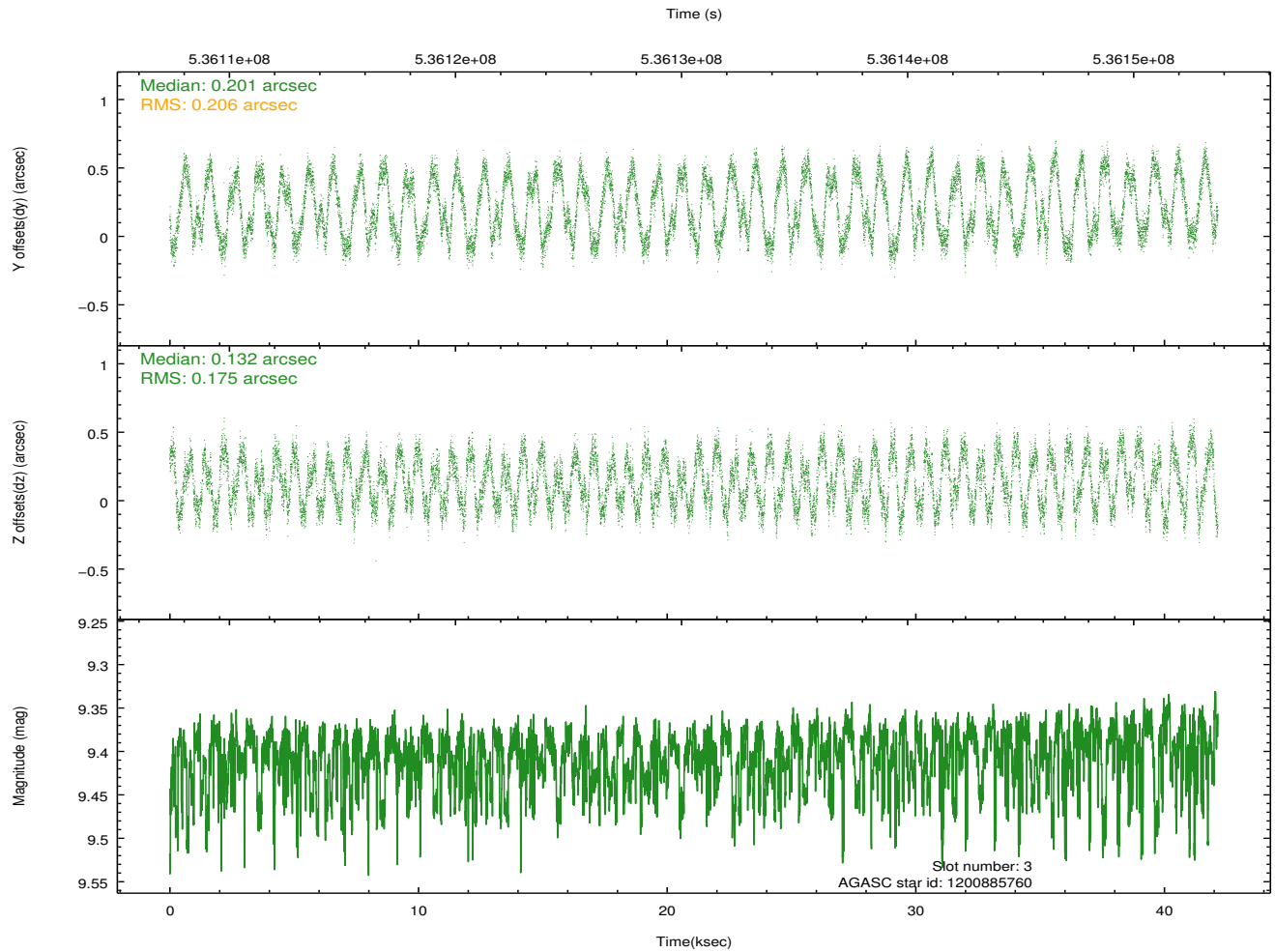
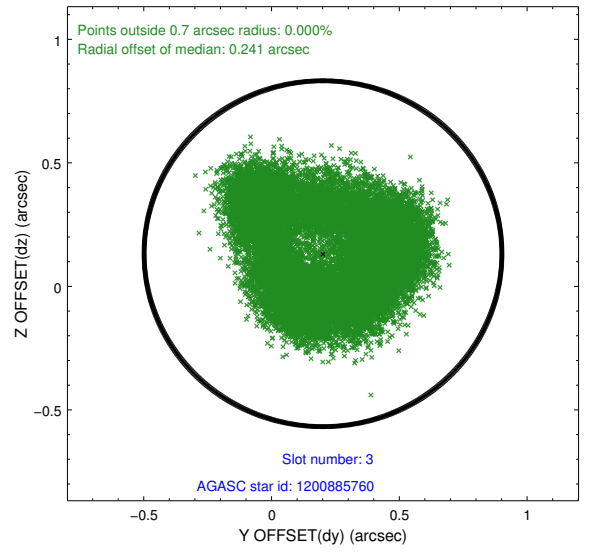
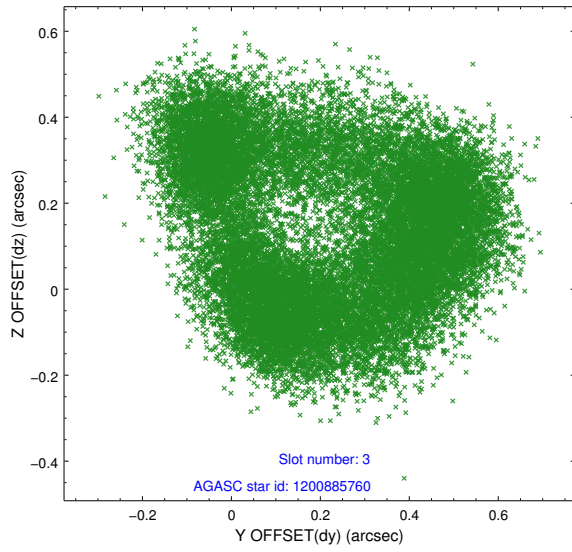
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.03	10283	-0.108	-0.083	0.035	0.071	0.000000	0.000000	-776.61	-851.13
1	FID		ACIS-I-4	7.06	10280	0.275	0.084	0.053	0.083	0.000000	0.000000	2137.79	1055.31
2	FID		ACIS-I-5	7.11	10283	-0.268	0.058	0.021	0.038	0.000000	0.000000	-1830.64	1053.00
3	GUIDE	used	1200885760	9.41	20553	0.201	0.132	0.296	0.395	83.723637	-68.777667	-1365.36	961.83
4	GUIDE	used	1201018312	9.59	20550	-0.044	0.170	0.146	0.265	86.298231	-69.115627	2120.79	323.55
5	GUIDE	used	1201018384	9.03	20551	-0.205	-0.180	0.172	0.261	85.801362	-68.593260	1198.45	2084.35
6	GUIDE	used	1201020040	8.55	20556	-0.182	-0.096	0.128	0.203	85.379163	-68.879396	817.42	979.62
7	GUIDE	used	1200884248	9.42	20505	0.215	-0.026	0.172	0.281	83.880915	-68.565170	-1306.49	1752.31

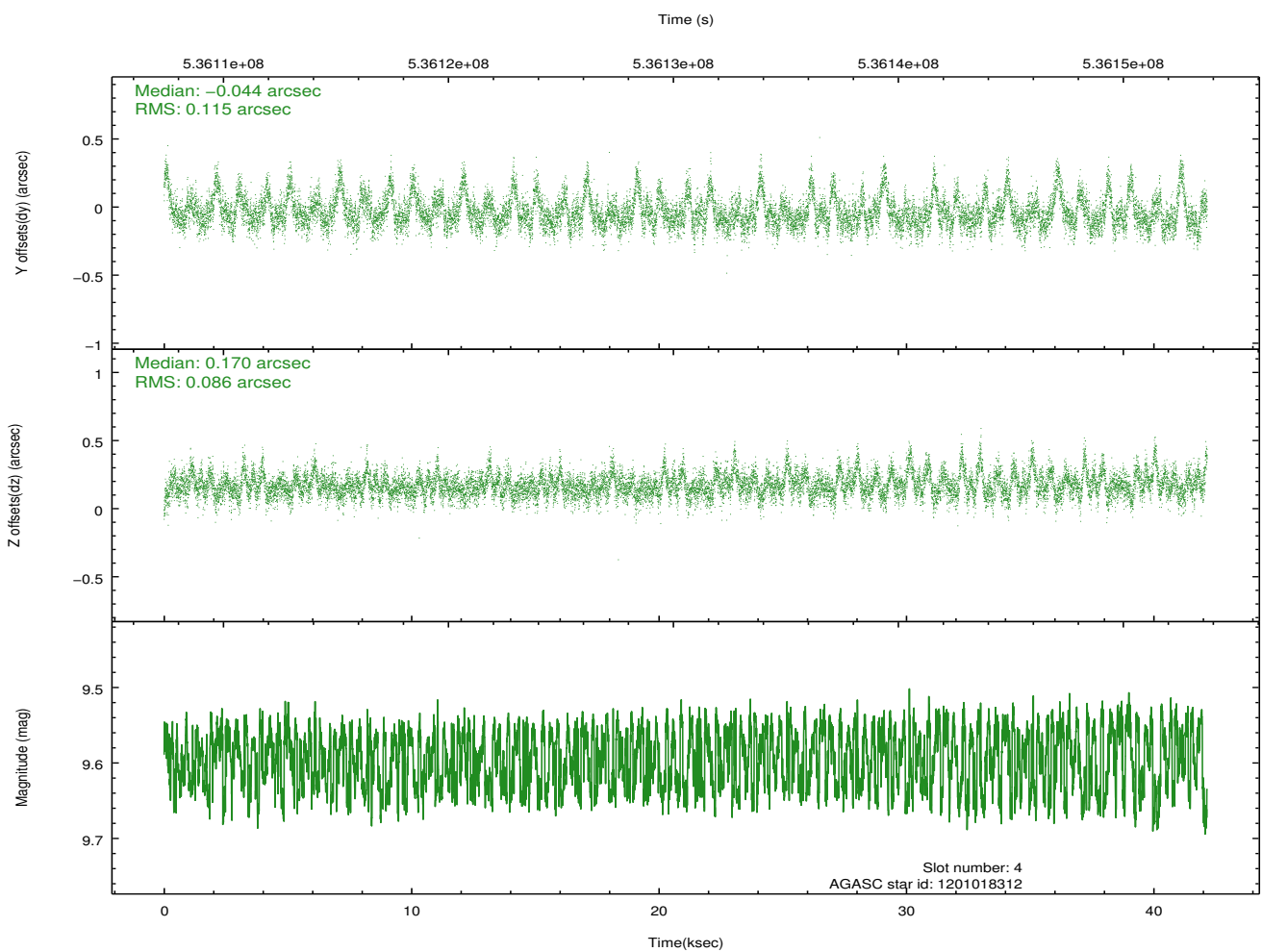
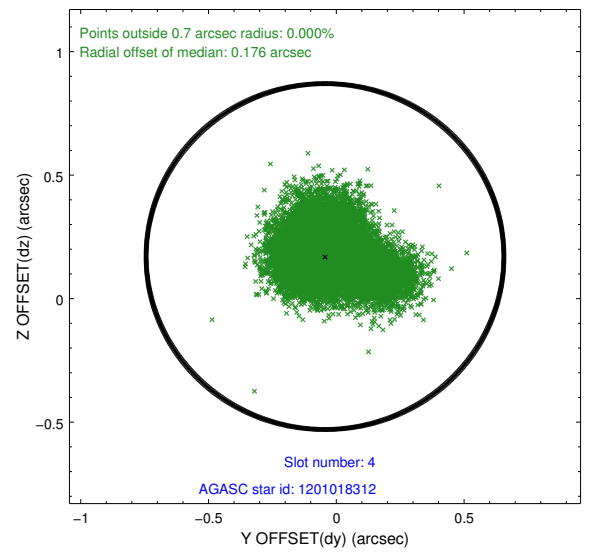
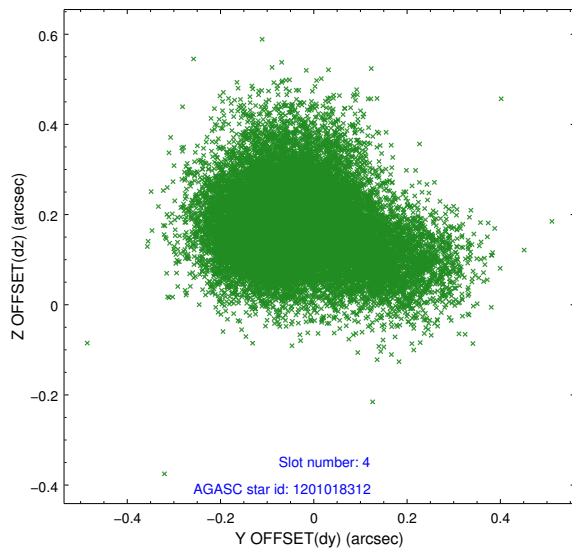
∞

2.4 Star Slots

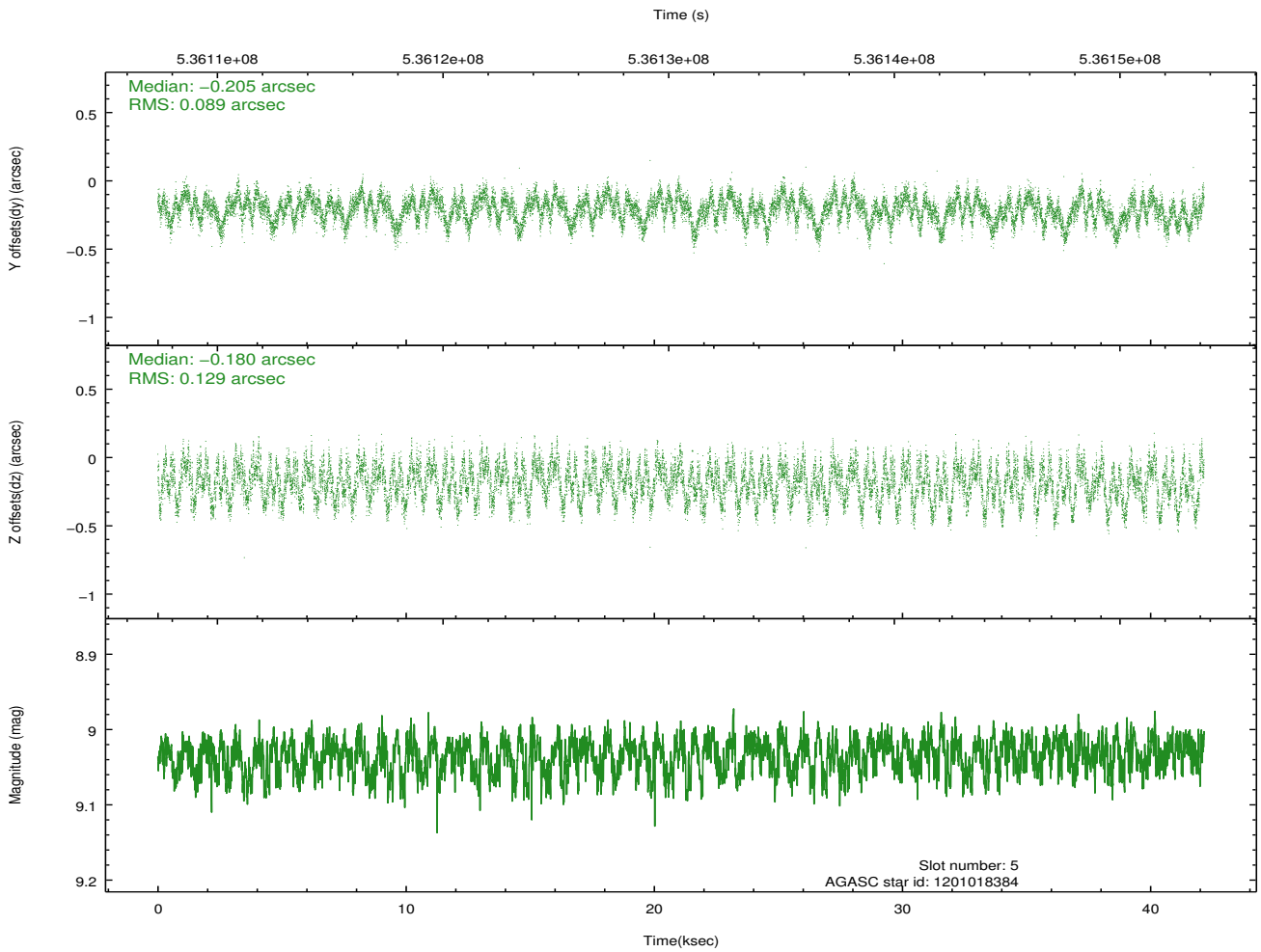
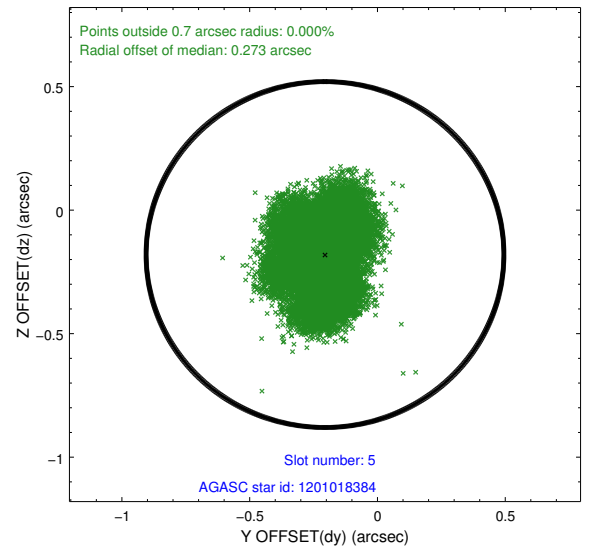
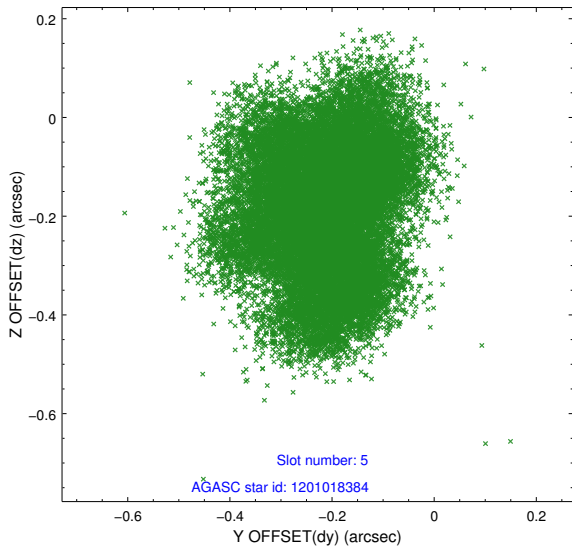
2.4.1 Slot 3



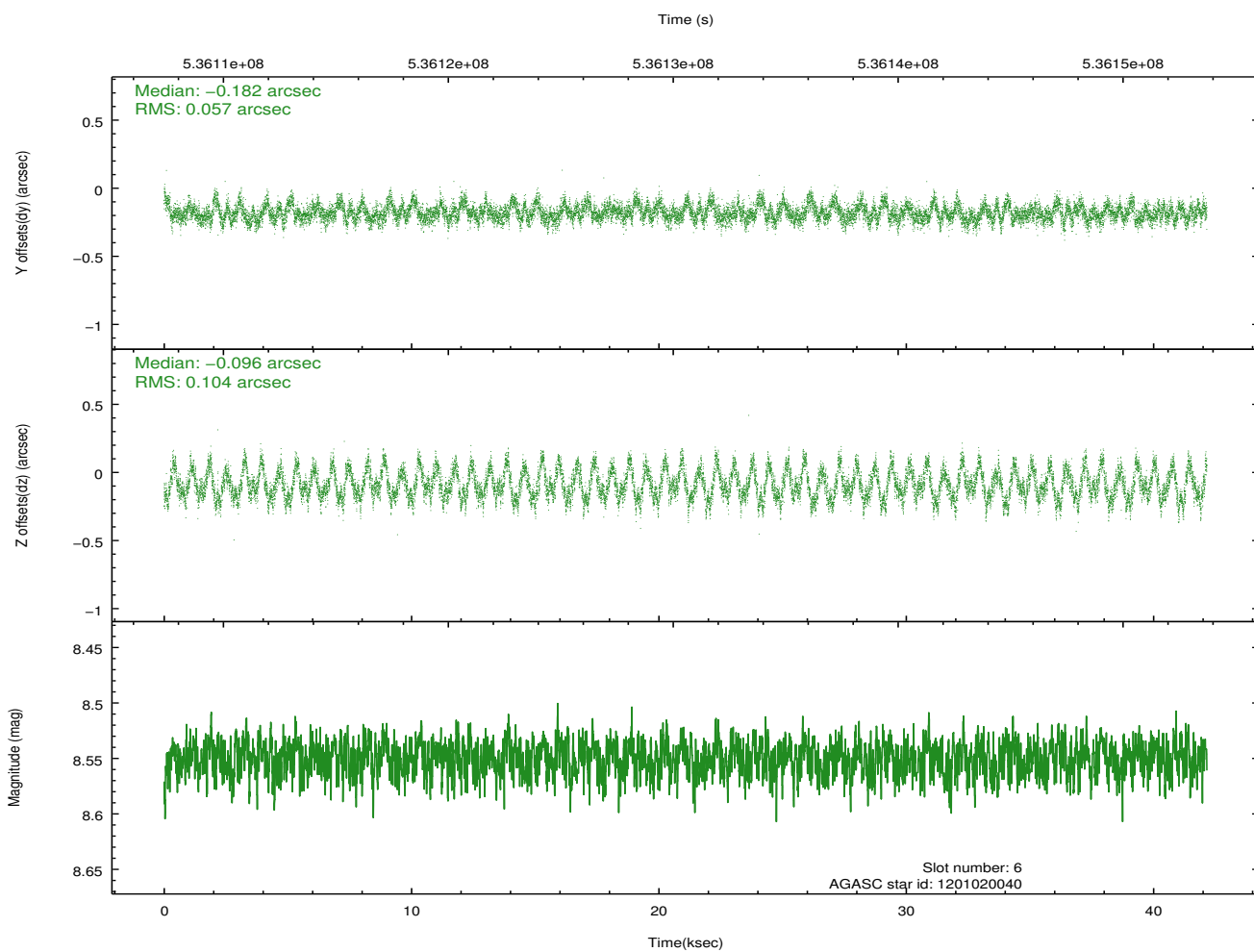
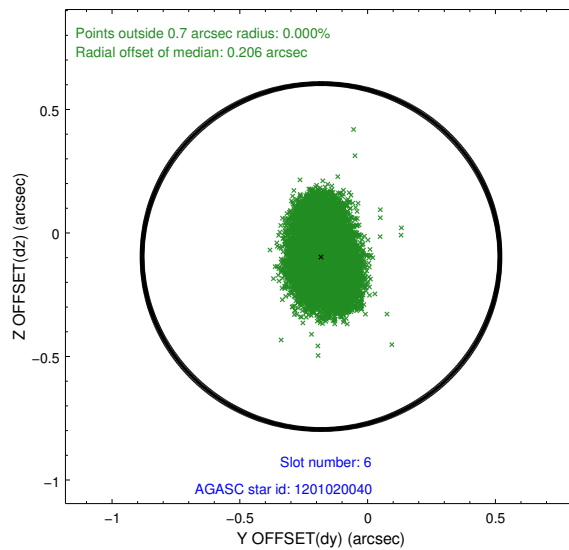
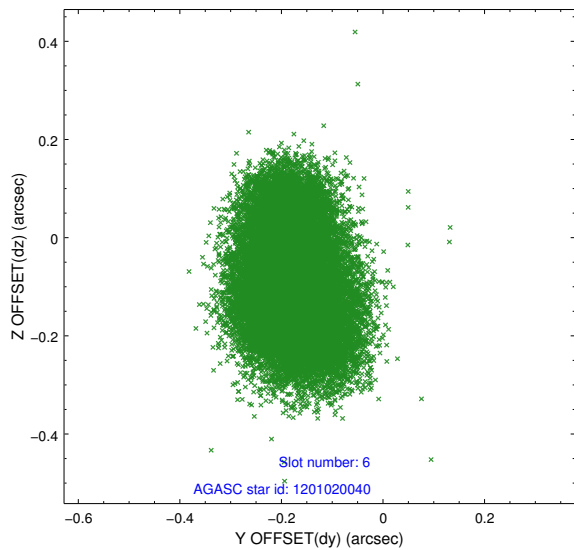
2.4.2 Slot 4



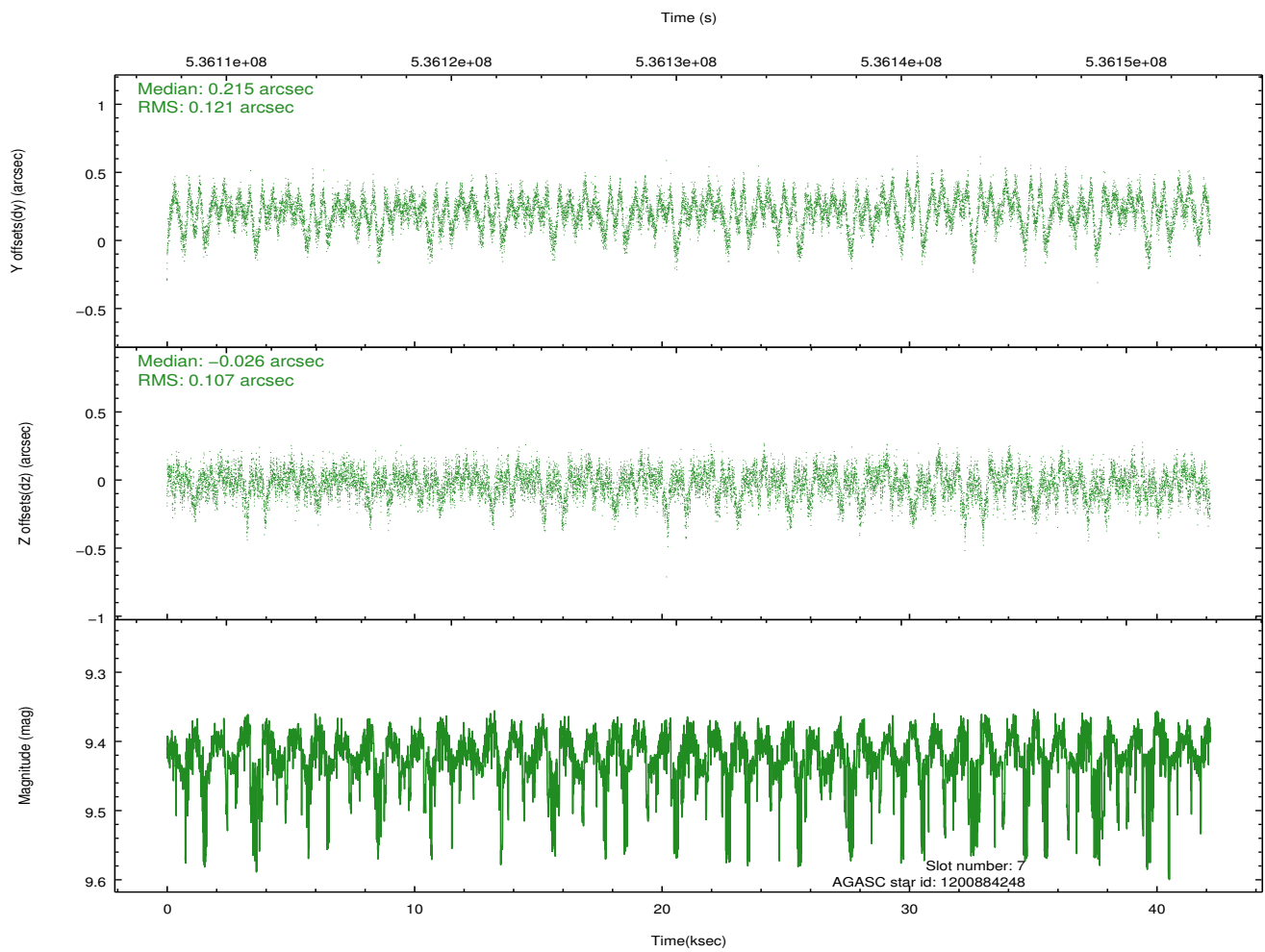
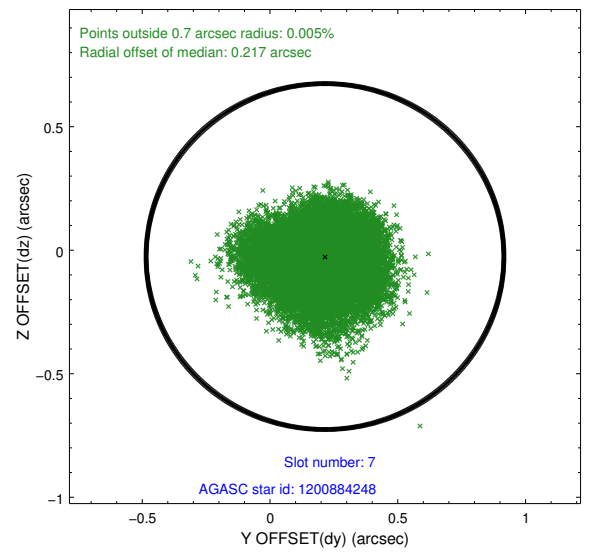
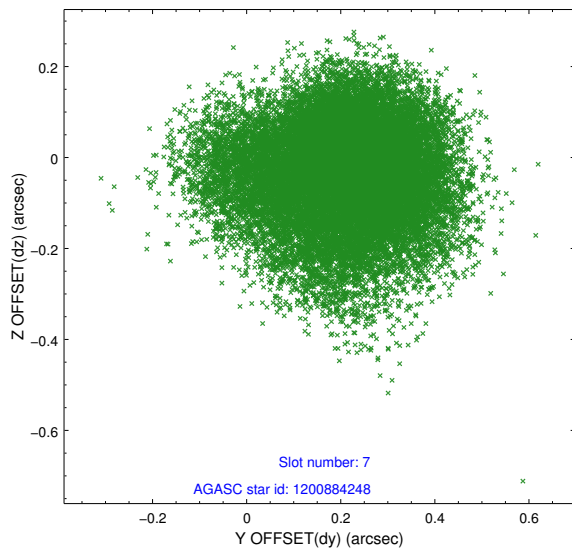
2.4.3 Slot 5



2.4.4 Slot 6

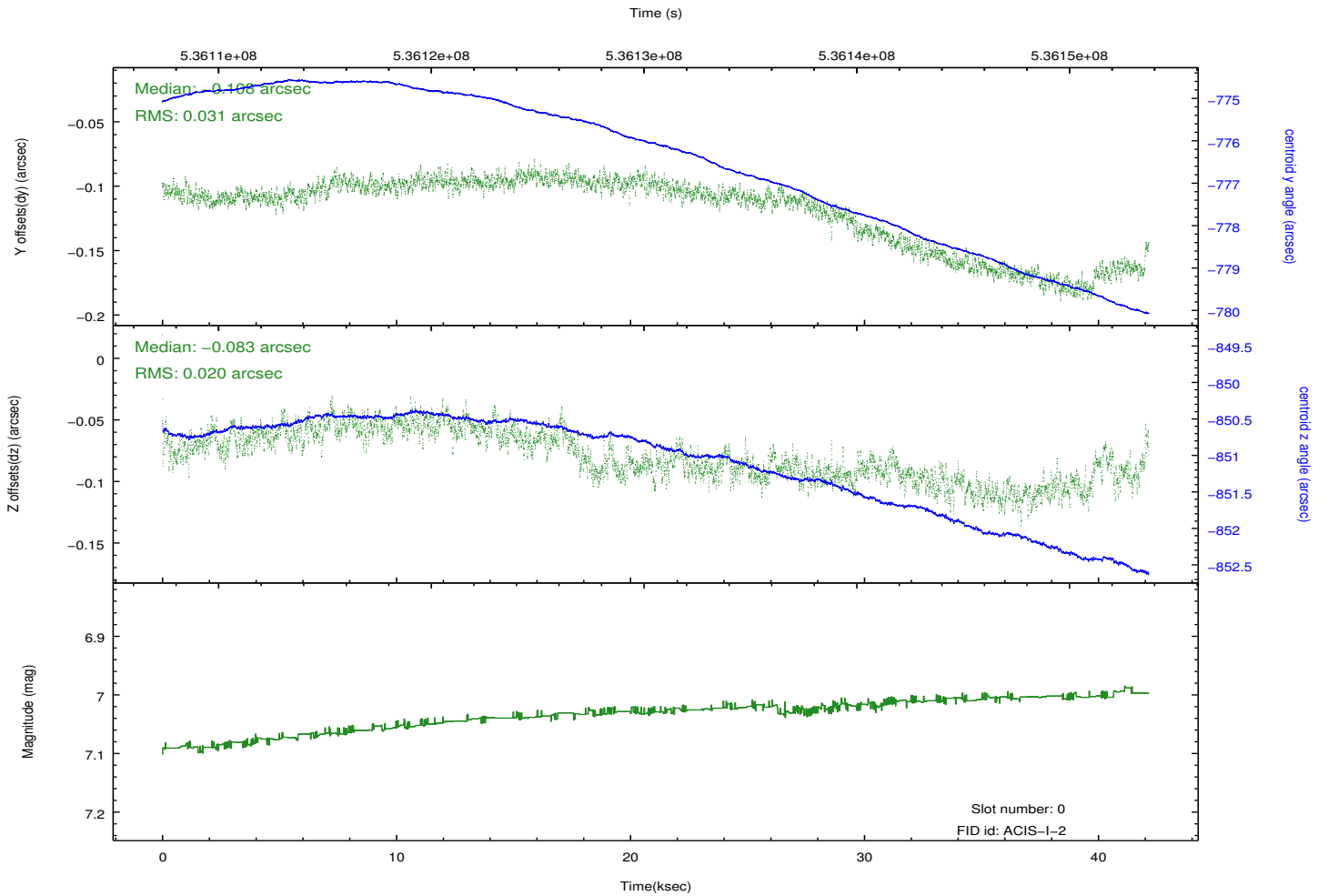
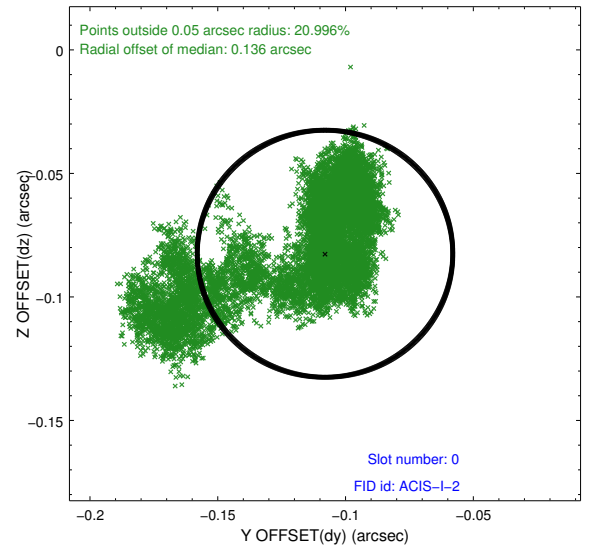
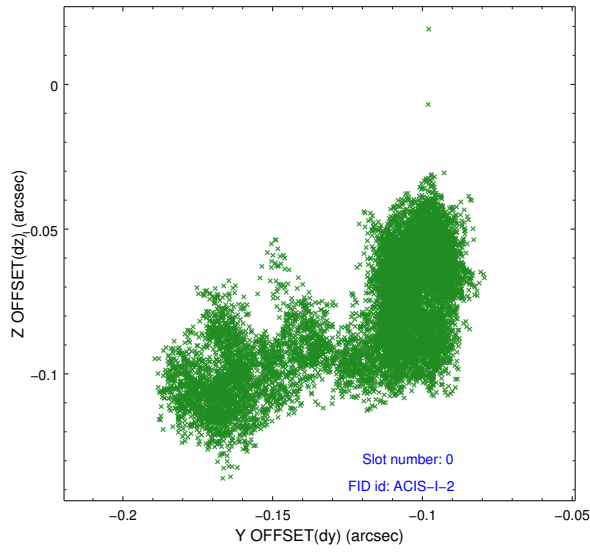


2.4.5 Slot 7

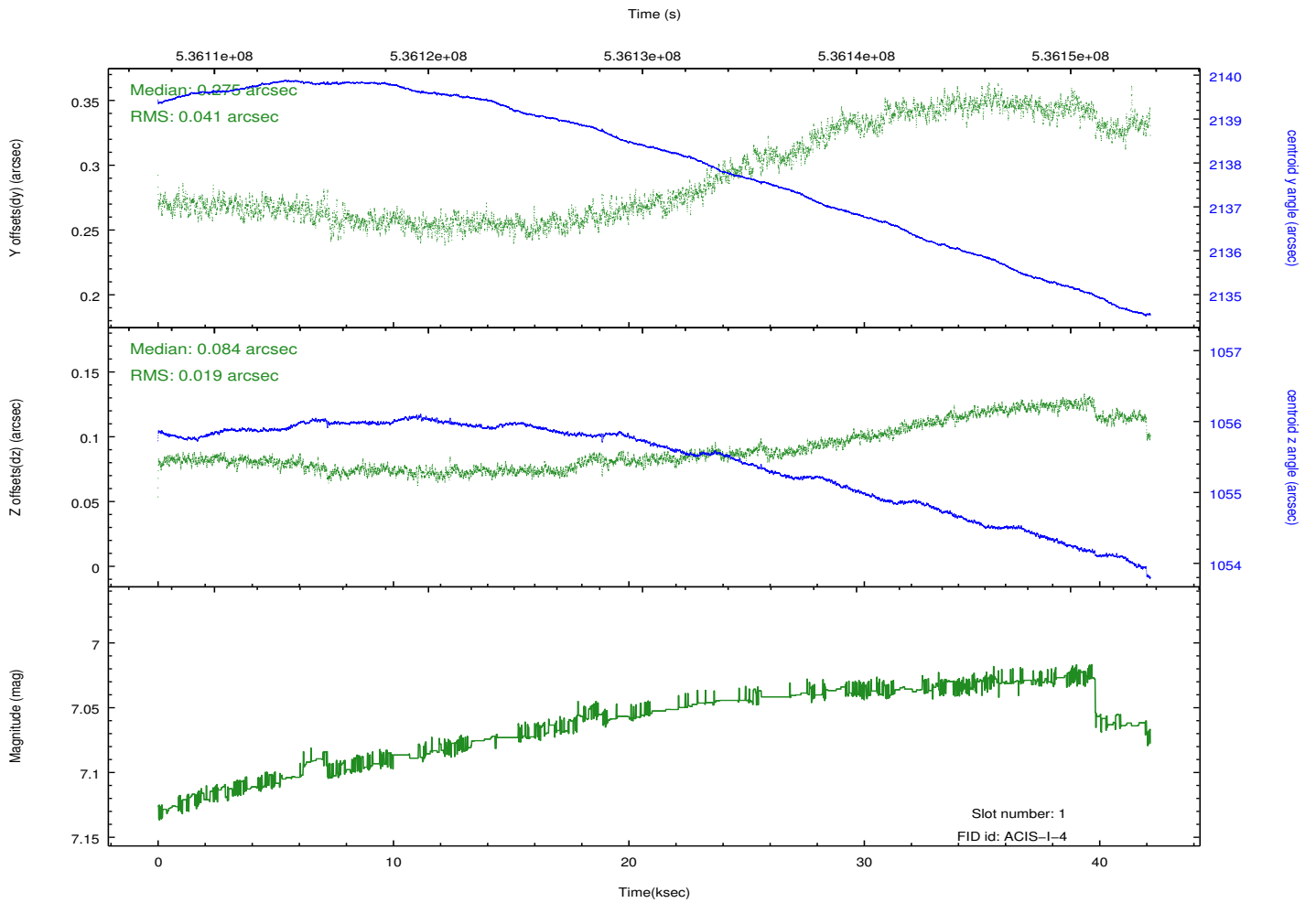
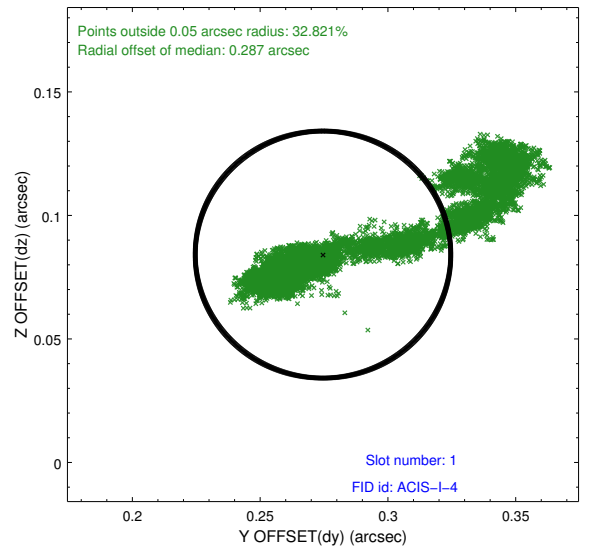
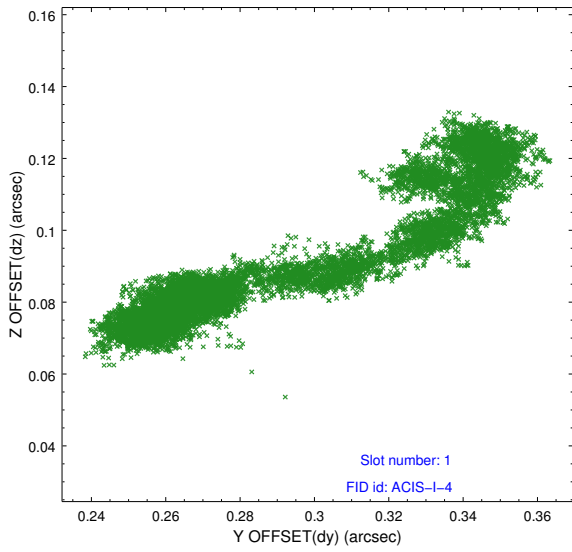


2.5 FID Slots

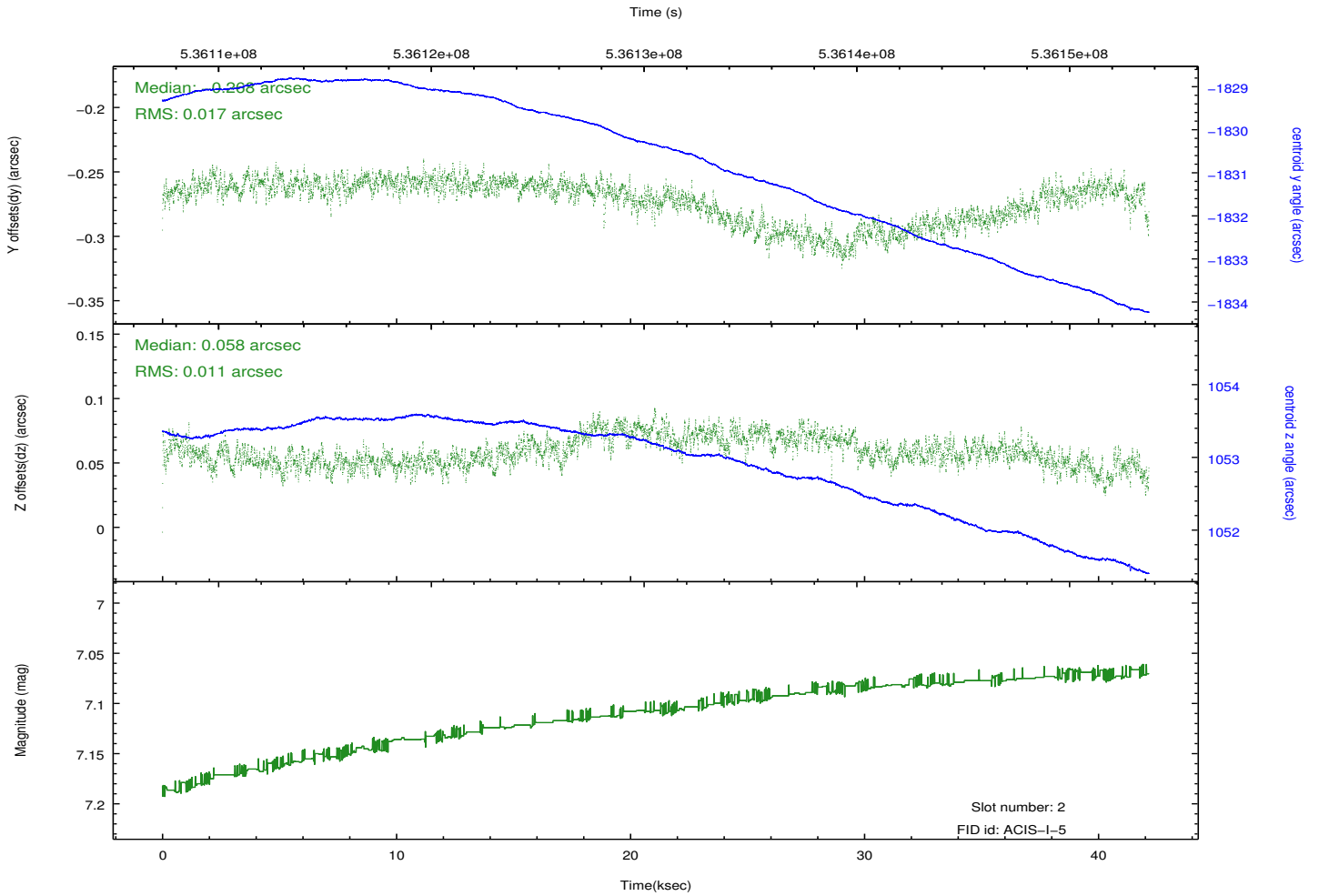
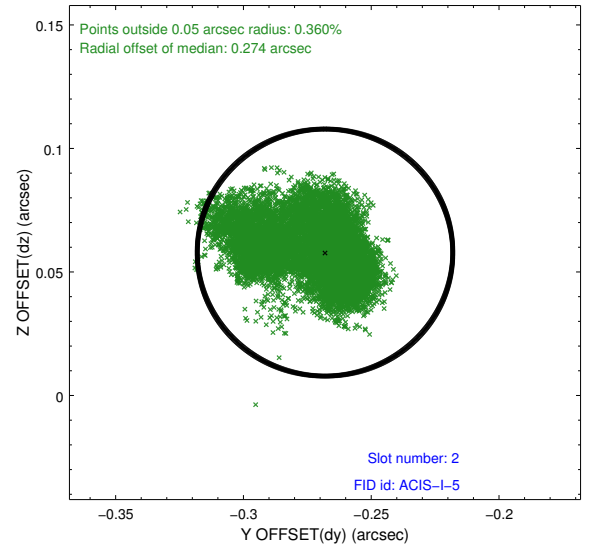
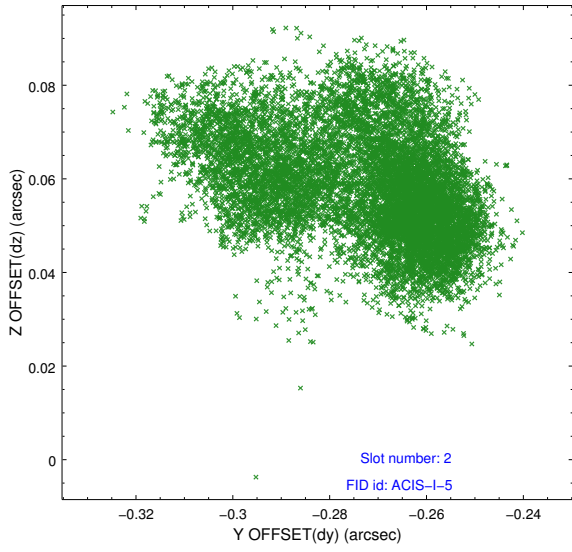
2.5.1 Slot 0



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)	2014.12.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.971199843705

A.2 Comments