

V&V Reference Report

L2 ASCDS Version : 10.4

Observation 16446 - L2 Version 1
Chandra X-Ray Center

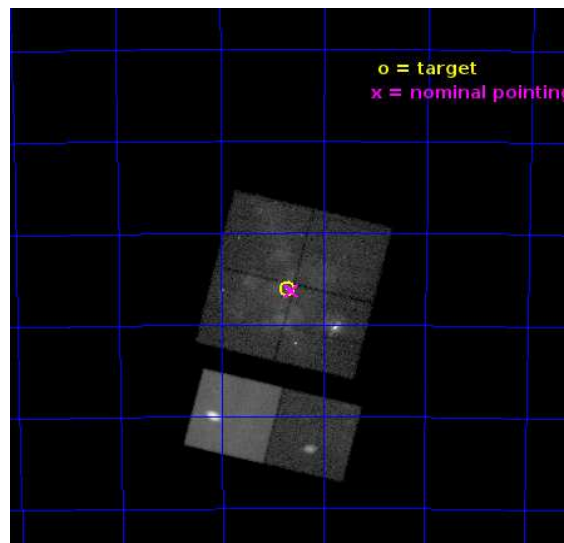
L2 Processing Date : Jun 5 2015

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1 Front

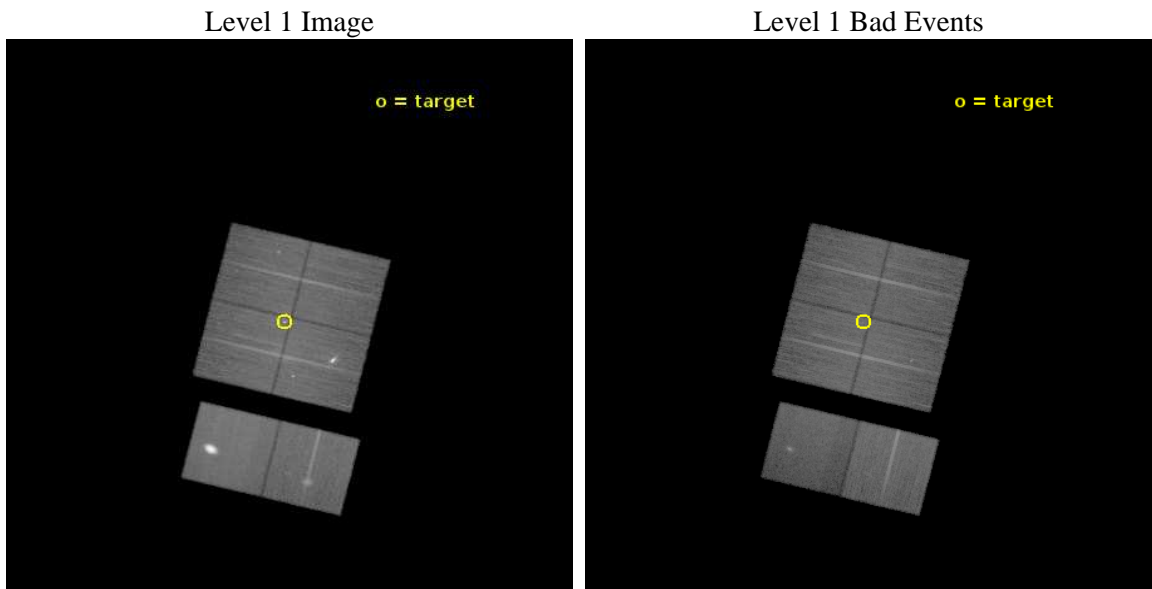
seq_num	901116	Sequence number
obs_id	16446	Observation id
title	The Tarantula -- Revealed by X-rays (T-ReX): A Definitive Chandra Investigation of 30 Doradus	Proposal title
observer	Dr. Leisa Townsley	Principal investigator
object	30 Doradus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	84.676667	Observer's specified target RA [deg]
dec_targ	-69.100806	Observer's specified target Dec [deg]
ra_nom	84.657036372792	Nominal RA [deg]
dec_nom	-69.105045104863	Nominal Dec [deg]
roll_nom	193.87751776005	Nominal Roll [deg]
revision	1	Processing version of data
ontime	48156.800717592	Sum of GTIs [s]
livetime	47547.010310362	Livetime [s]
ontime0	48156.800717592	Sum of GTIs [s]
ontime1	48156.800717592	Sum of GTIs [s]
ontime2	48147.077686548	Sum of GTIs [s]
ontime3	48156.800717592	Sum of GTIs [s]
ontime6	48153.559707165	Sum of GTIs [s]
ontime7	48156.800717592	Sum of GTIs [s]
l2events	476666	Number of level 2 events



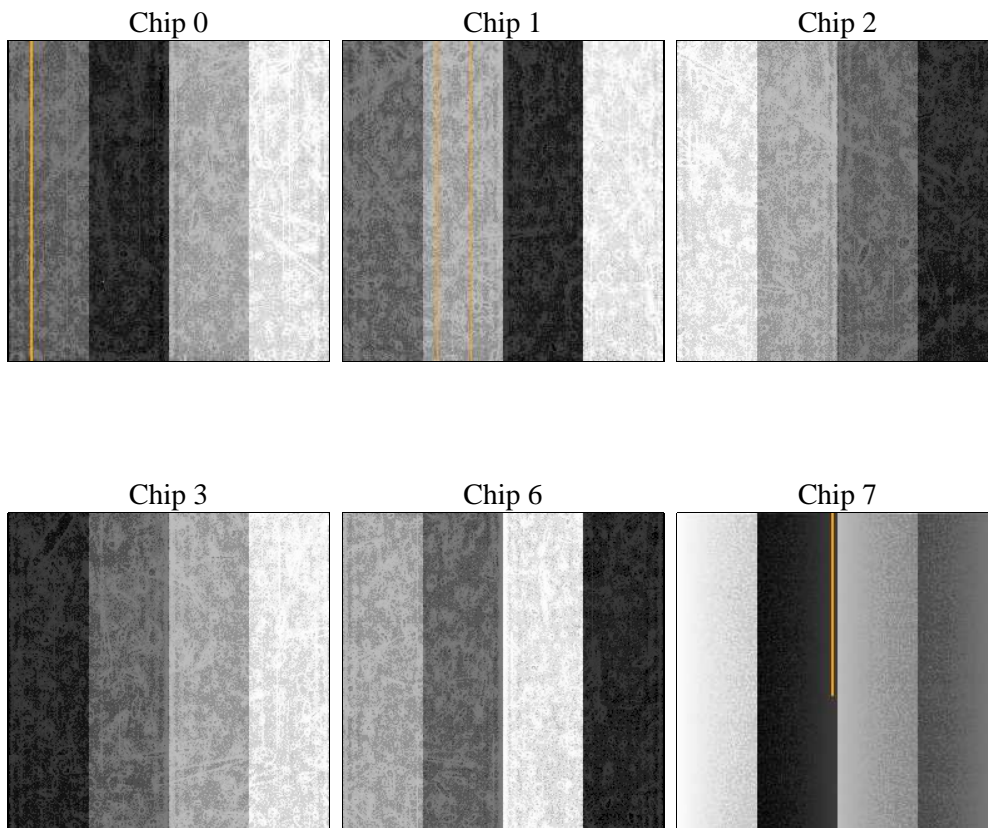
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	48200.000000	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	48156.800717592	Sum of GTIs [s]
caldbver	4.6.7	 	ontime0	48156.800717592	Sum of GTIs [s]
date	2015-06-05T17:51:15	Date and time of file creation	ontime1	48156.800717592	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	48147.077686548	Sum of GTIs [s]
			ontime3	48156.800717592	Sum of GTIs [s]
			ontime6	48153.559707165	Sum of GTIs [s]
			ontime7	48156.800717592	Sum of GTIs [s]
			l1events	1624791	Number of level 1 events

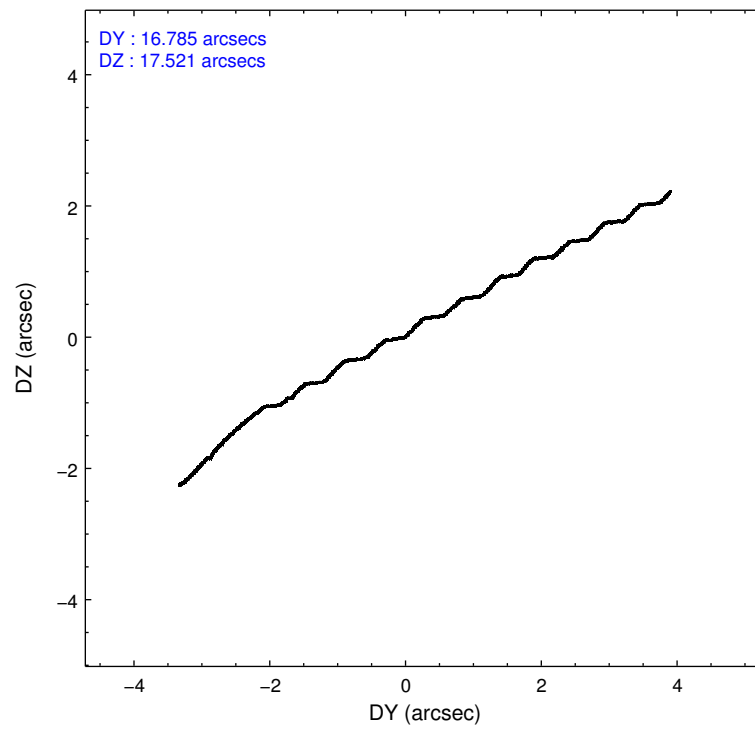
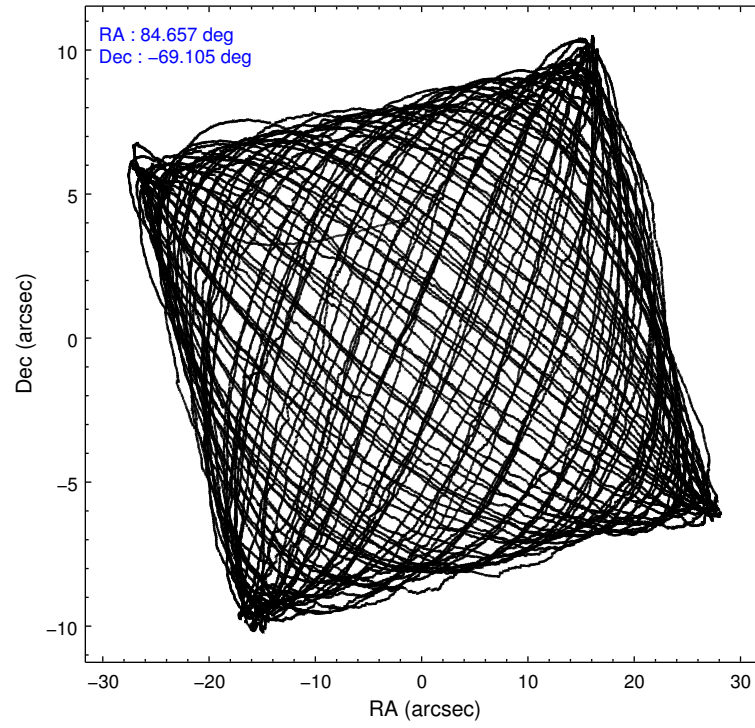
2.1.4 Events

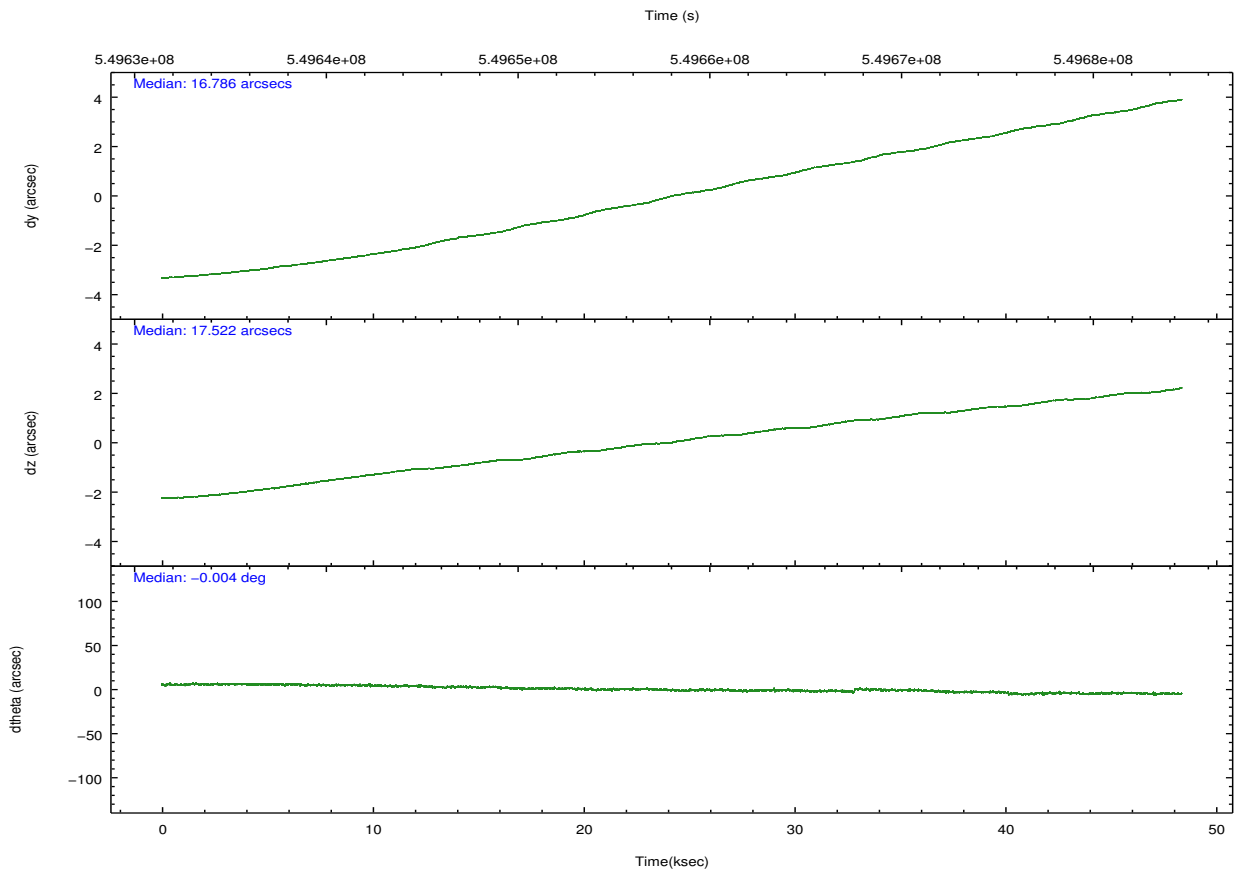
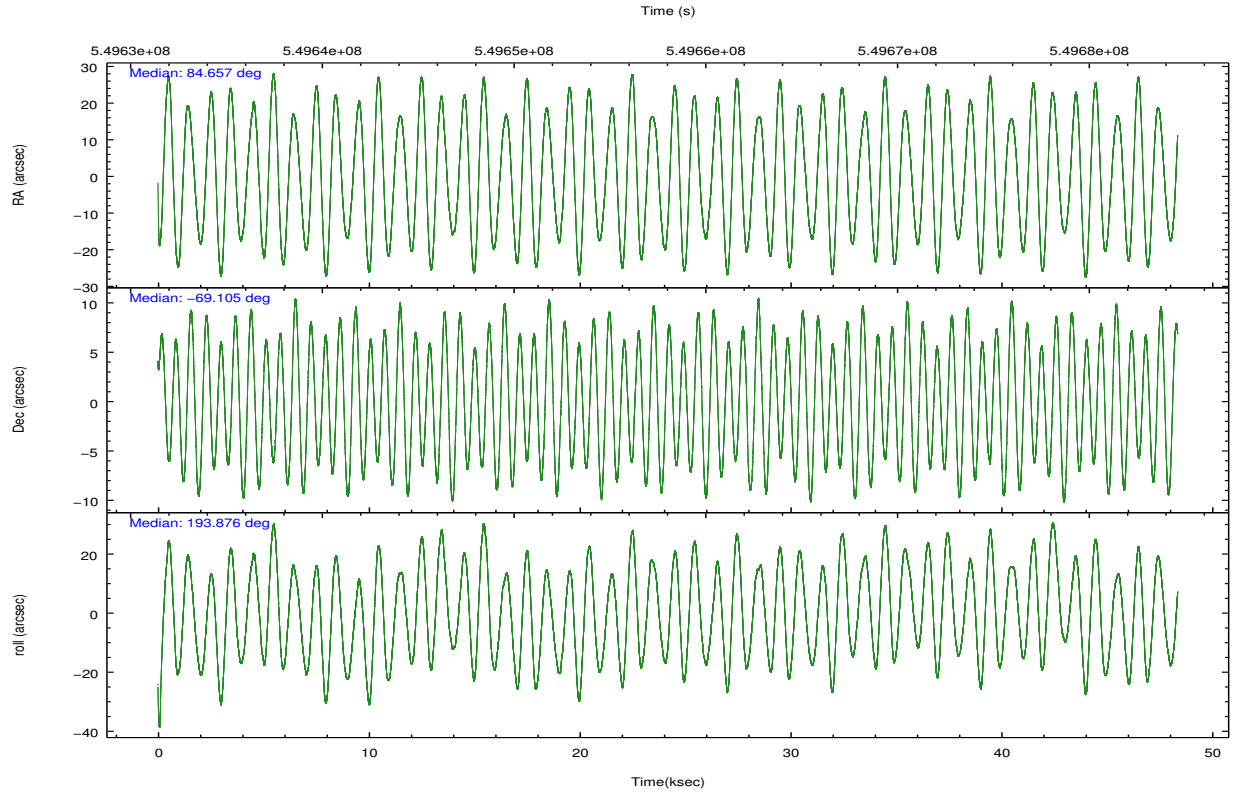
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	216099	218886	276015	239499	244033	430259	grade 0 events	16925	19503	45039	24315	18564	57119
rejected events	181425	179722	207017	196956	206335	142883		7%	8%	16%	10%	7%	13%
rejected %	83%	82%	75%	82%	84%	33%	grade 1 events	142	159	373	219	173	597
								0%	0%	0%	0%	0%	0%
							grade 2 events	7275	7753	10815	6984	7218	69345
								3%	3%	3%	2%	2%	16%
							grade 3 events	2866	2947	3815	3046	2948	29973
								1%	1%	1%	1%	1%	6%
							grade 4 events	2659	2989	3803	3034	2899	29902
								1%	1%	1%	1%	1%	6%
							grade 5 events	8551	9528	8114	10103	10438	29646
								3%	4%	2%	4%	4%	6%
							grade 6 events	4954	5974	5531	5167	6072	101054
								2%	2%	2%	2%	2%	23%
							grade 7 events	172727	170033	198525	186631	195721	112623
								79%	77%	71%	77%	80%	26%

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	84.712592	84.65703637279175	CCD I2 on	Y	Y
[deg] Pointing Dec	-69.085846	-69.10504510486305	CCD I3 on	Y	Y
[deg] Pointing Roll	193.720738	193.8775177600507	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)	549633993.184000	549633014.10175	CCD S5 on	N	N
Observation start date	2015-06-02T12:05:26	2015-06-02T11:50:14	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	549682193.184000	549682929.04205	On-chip summing requested	N	N
Observation end date	2015-06-03T01:28:46	2015-06-03T01:42:09	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





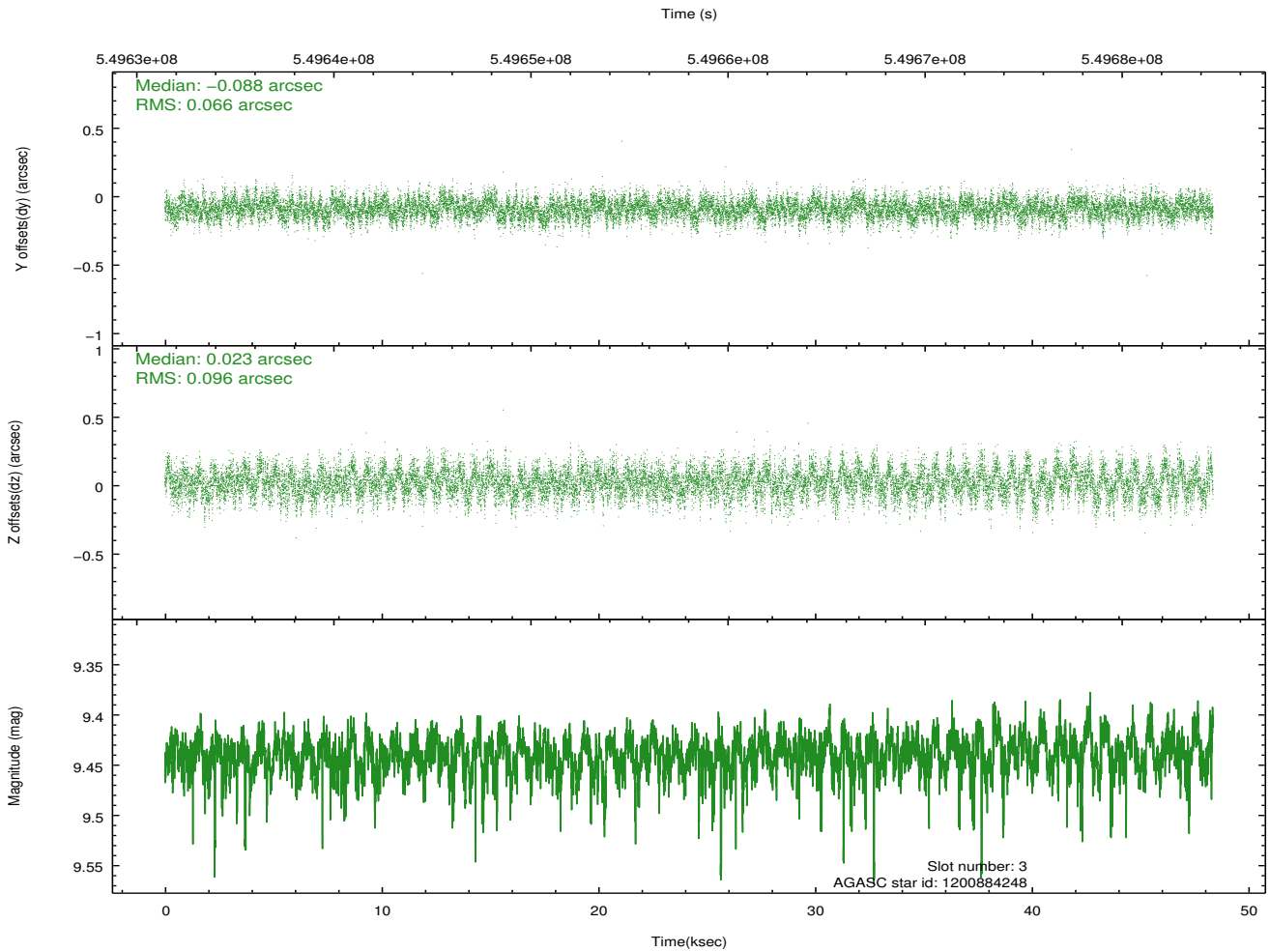
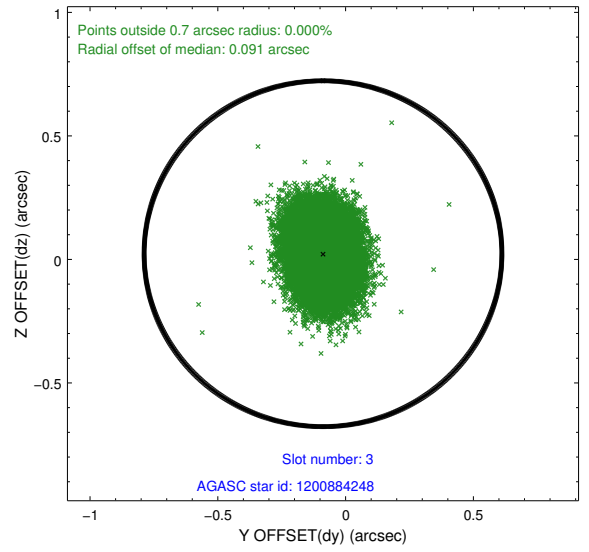
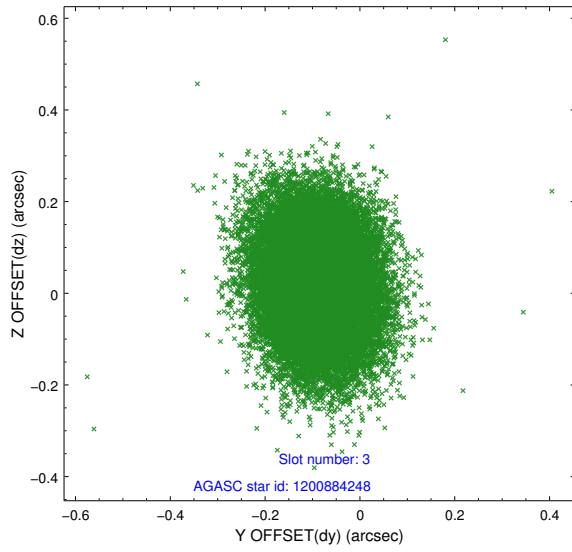
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.12	11796	-0.023	-0.058	0.038	0.056	0.000000	0.000000	922.62	-841.22
1	FID		ACIS-I-4	7.05	11797	0.269	0.079	0.045	0.062	0.000000	0.000000	2142.88	1058.77
2	FID		ACIS-I-5	7.12	11797	-0.341	0.050	0.033	0.047	0.000000	0.000000	-1825.79	1056.44
3	GUIDE	used	1200884248	9.44	23580	-0.088	0.023	0.123	0.204	83.880915	-68.565170	620.20	-2073.10
4	GUIDE	used	1200885760	9.42	23575	-0.281	-0.094	0.139	0.223	83.723637	-68.777667	991.60	-1372.96
5	GUIDE	used	1201016584	9.42	23579	0.371	0.139	0.137	0.229	85.677603	-68.415933	-1810.09	-2029.67
6	GUIDE	used	1201018384	9.02	23574	0.073	-0.027	0.132	0.215	85.801362	-68.593260	-1807.37	-1370.91
7	GUIDE	used	1201020040	8.59	23581	-0.073	-0.049	0.100	0.164	85.379163	-68.879396	-1014.66	-512.15

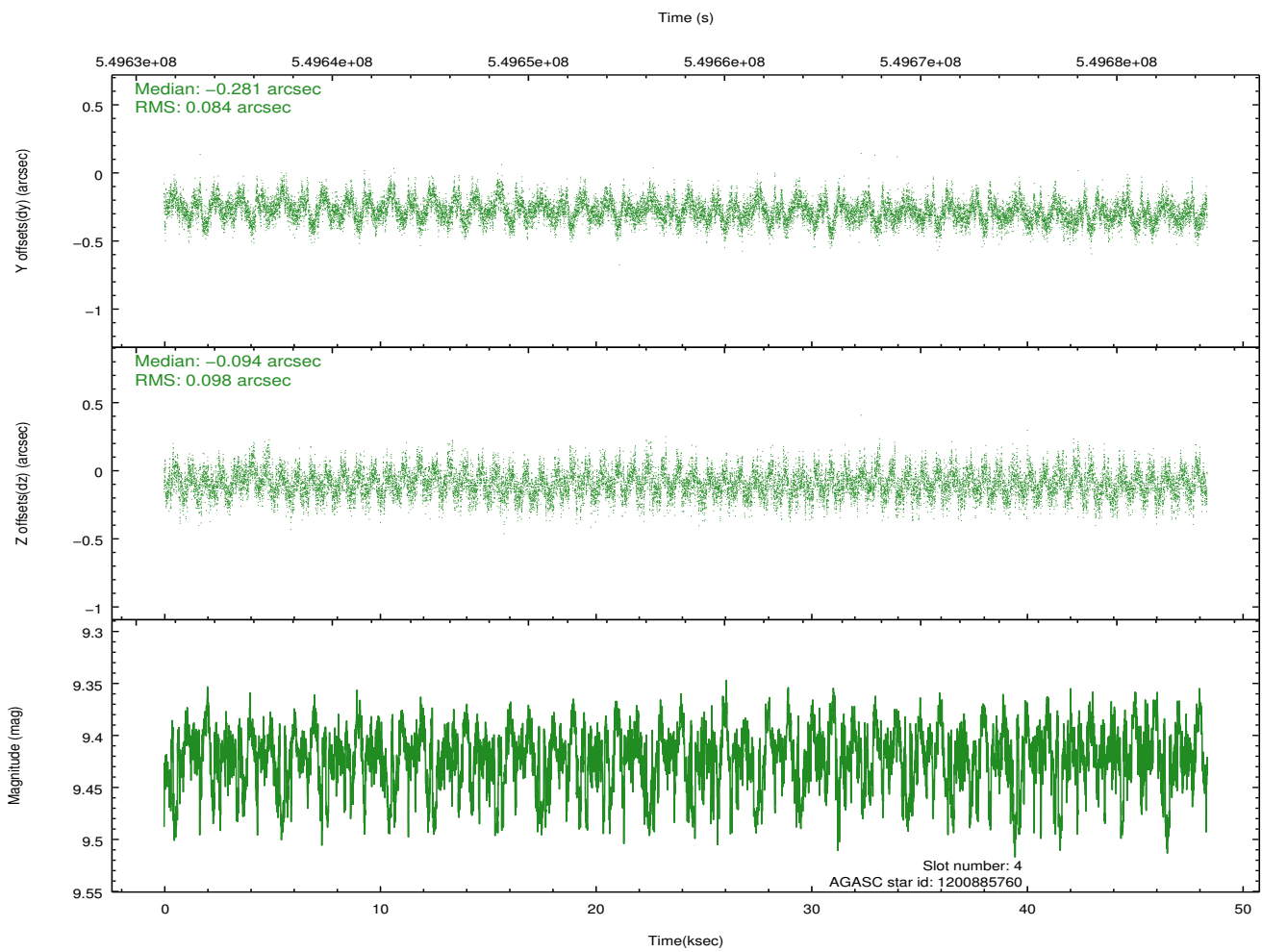
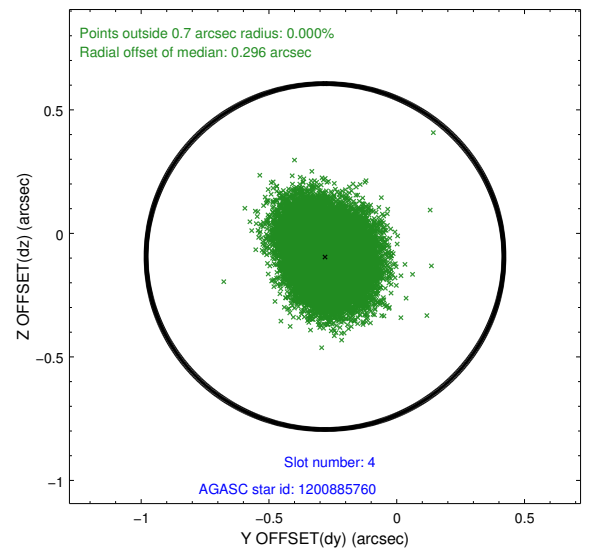
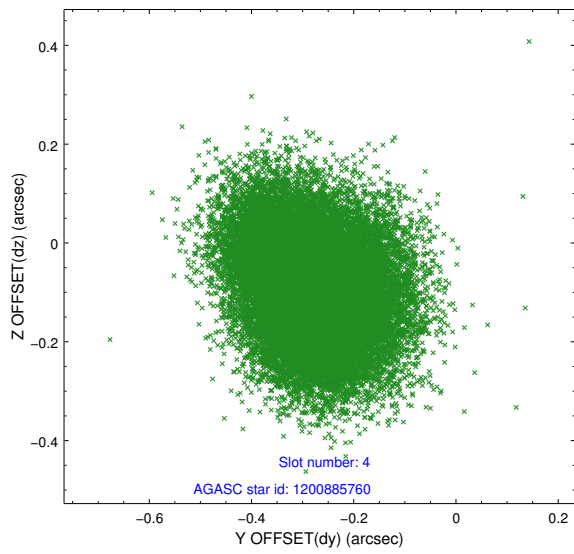
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2.4 Star Slots

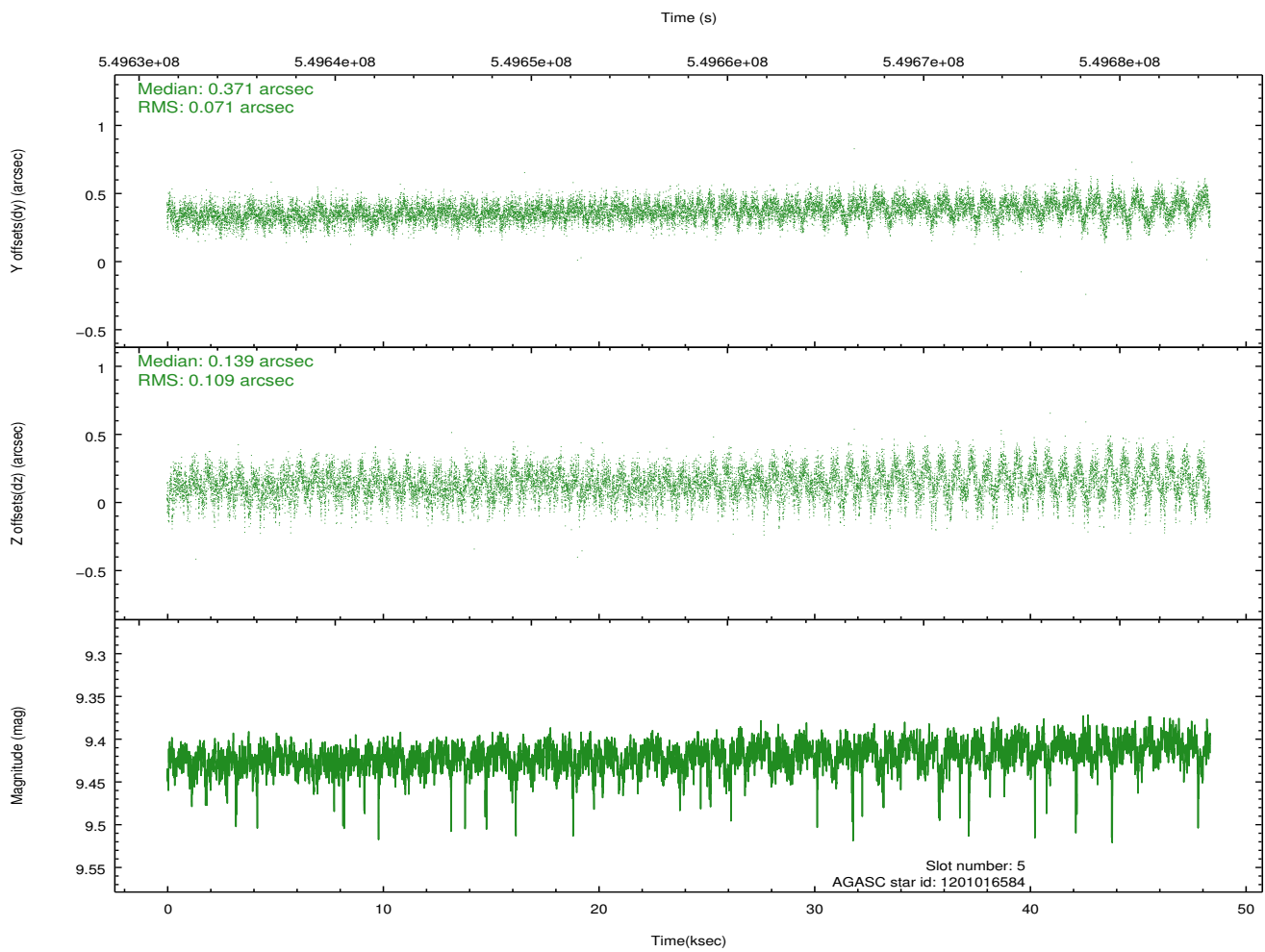
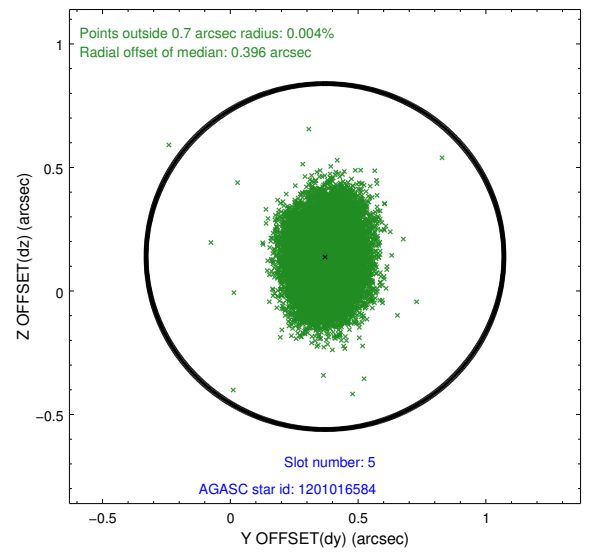
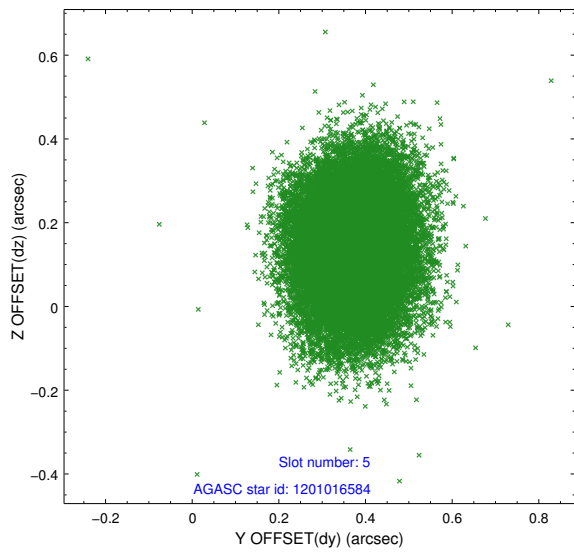
2.4.1 Slot 3



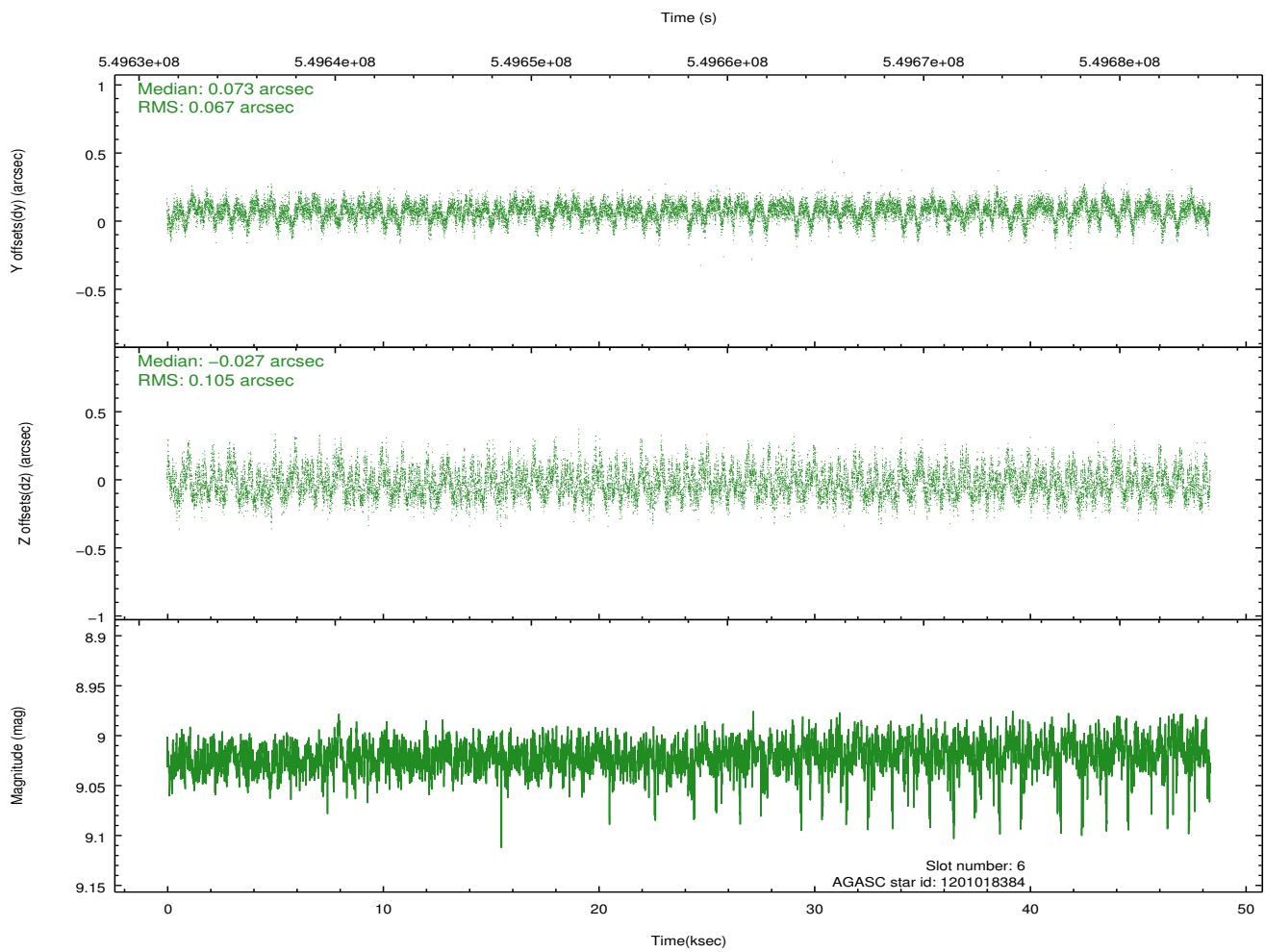
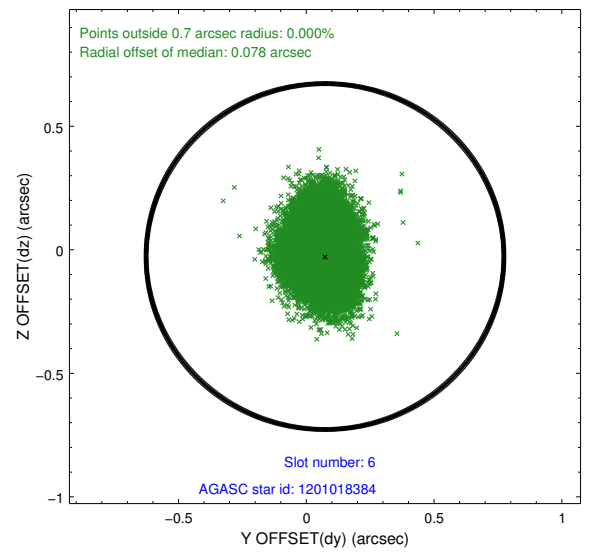
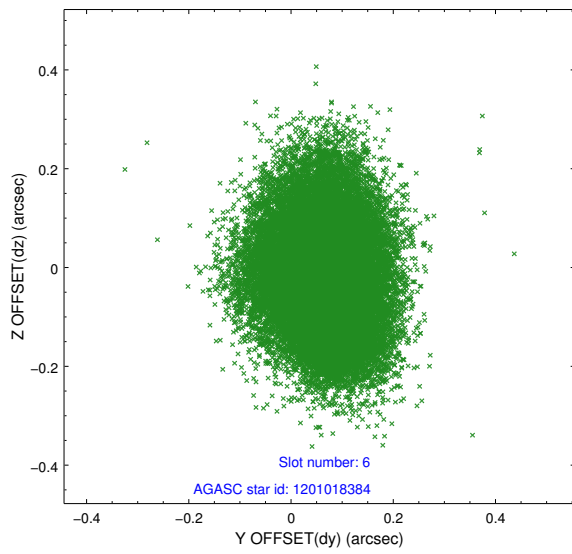
2.4.2 Slot 4



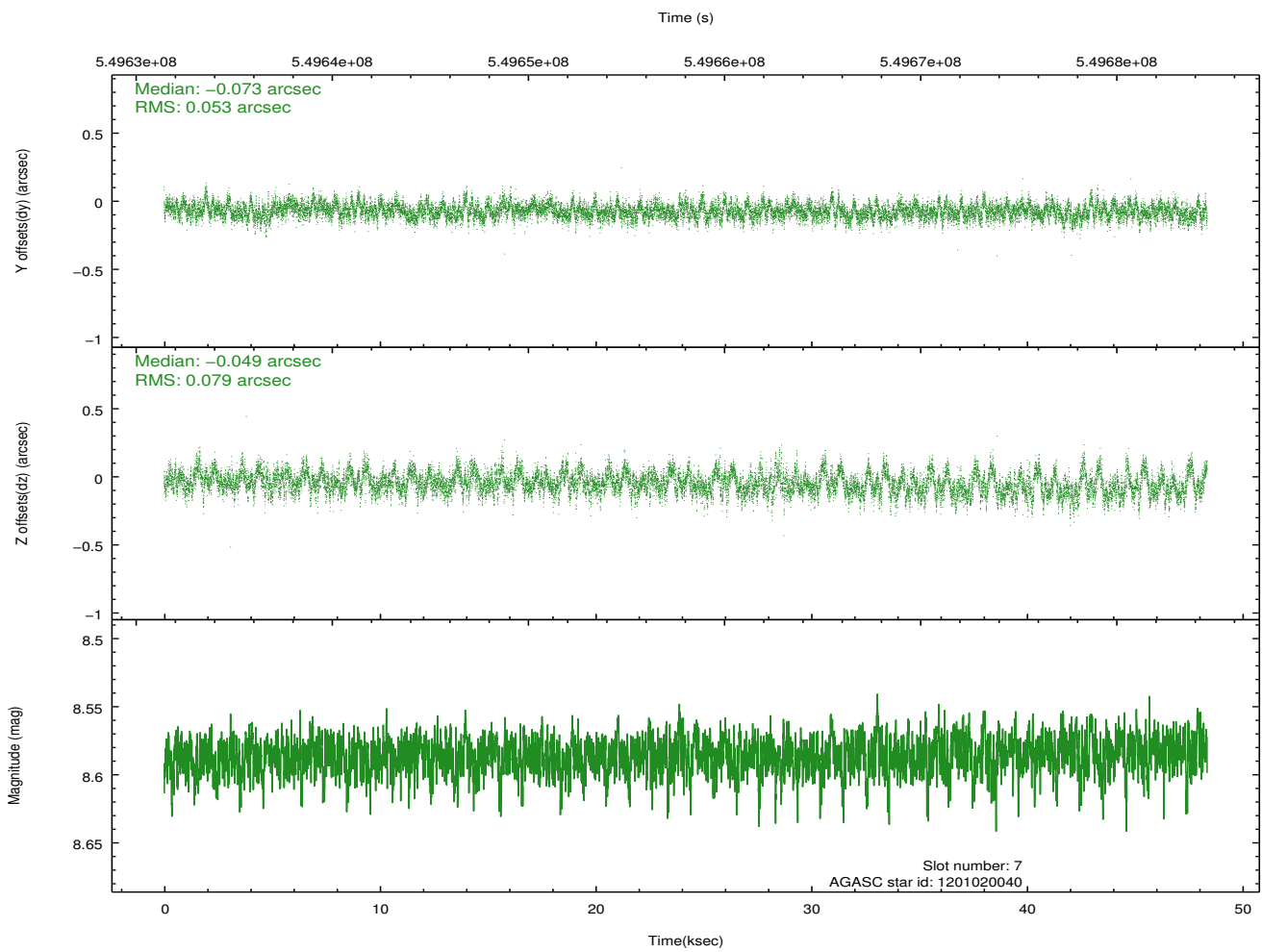
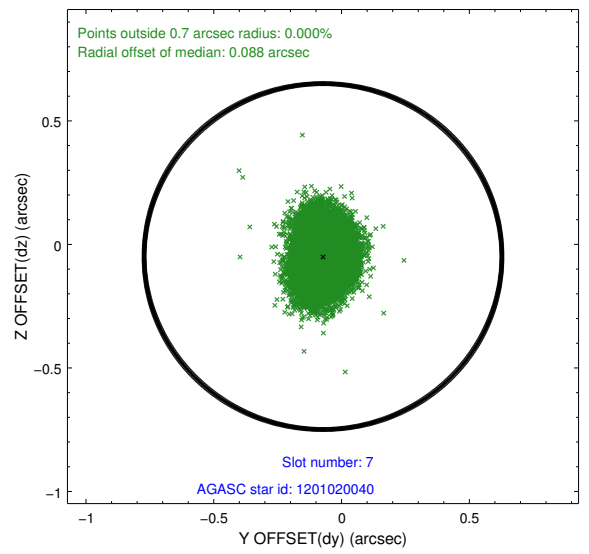
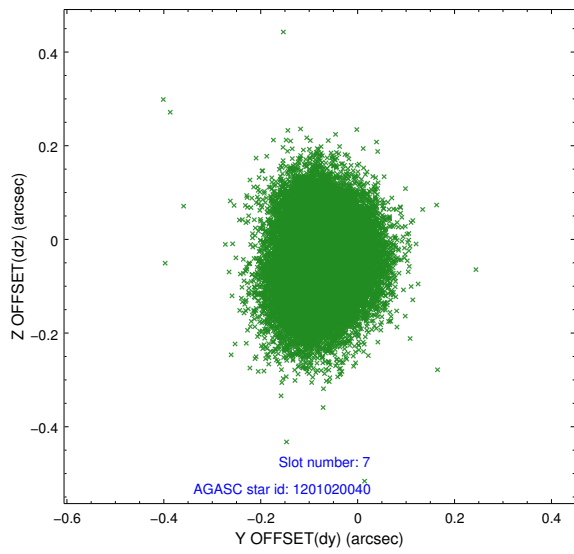
2.4.3 Slot 5



2.4.4 Slot 6

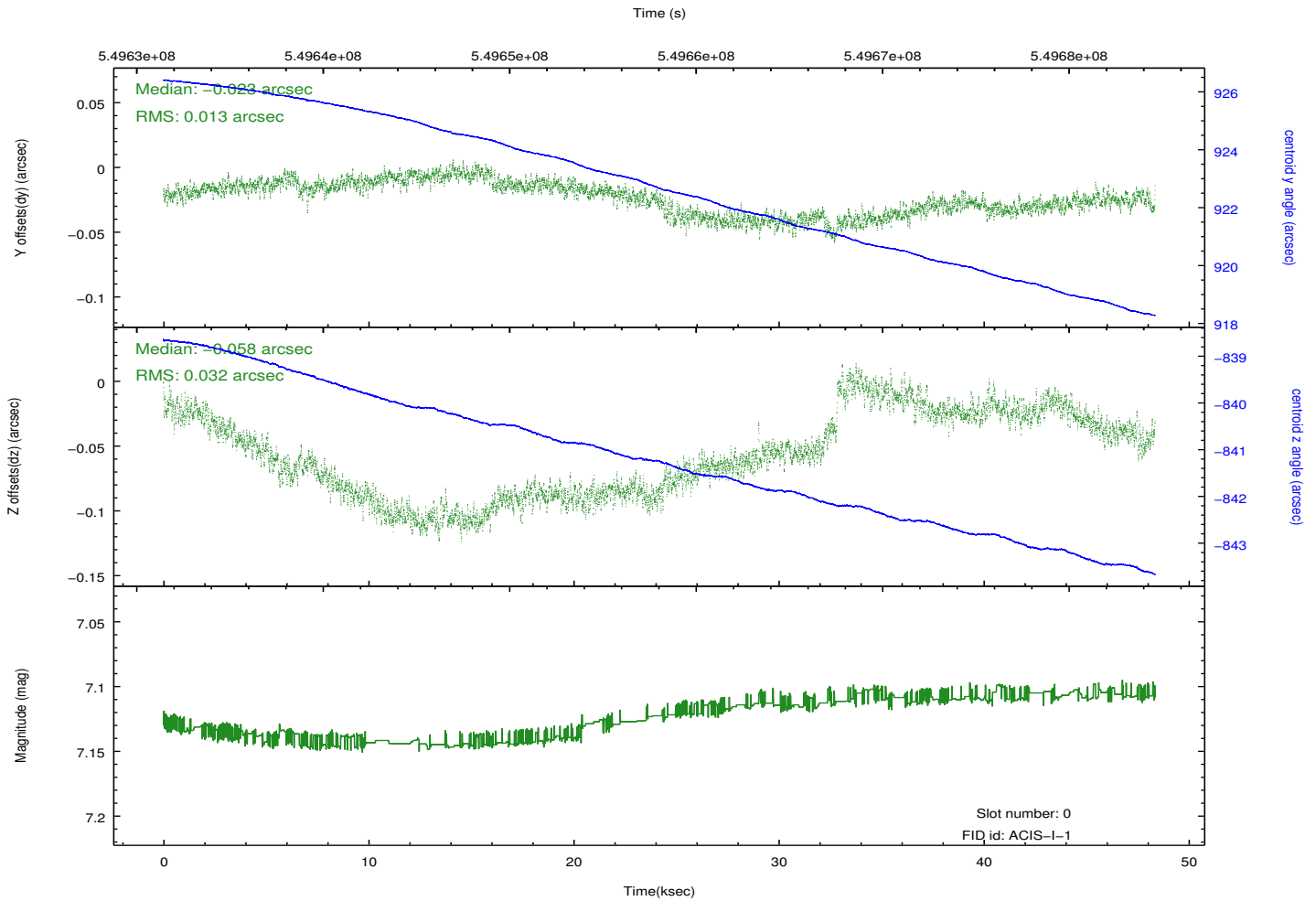
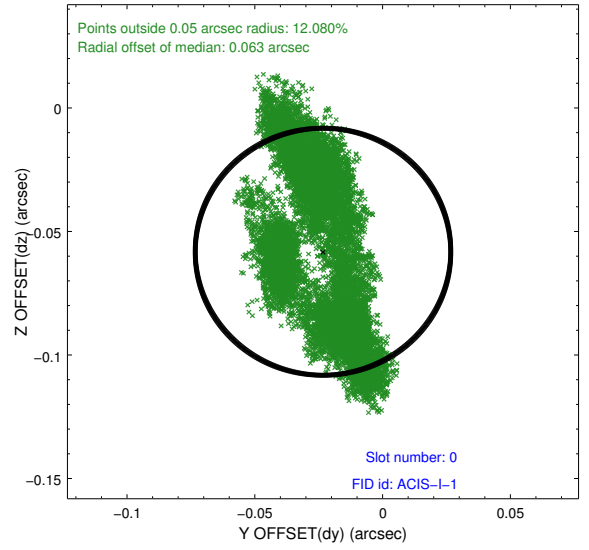
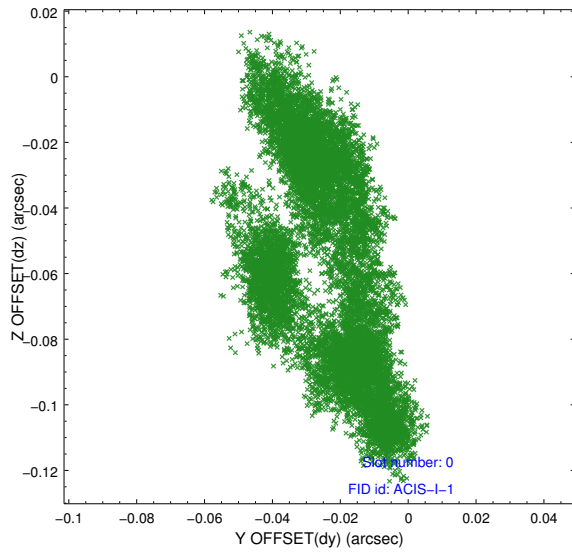


2.4.5 Slot 7

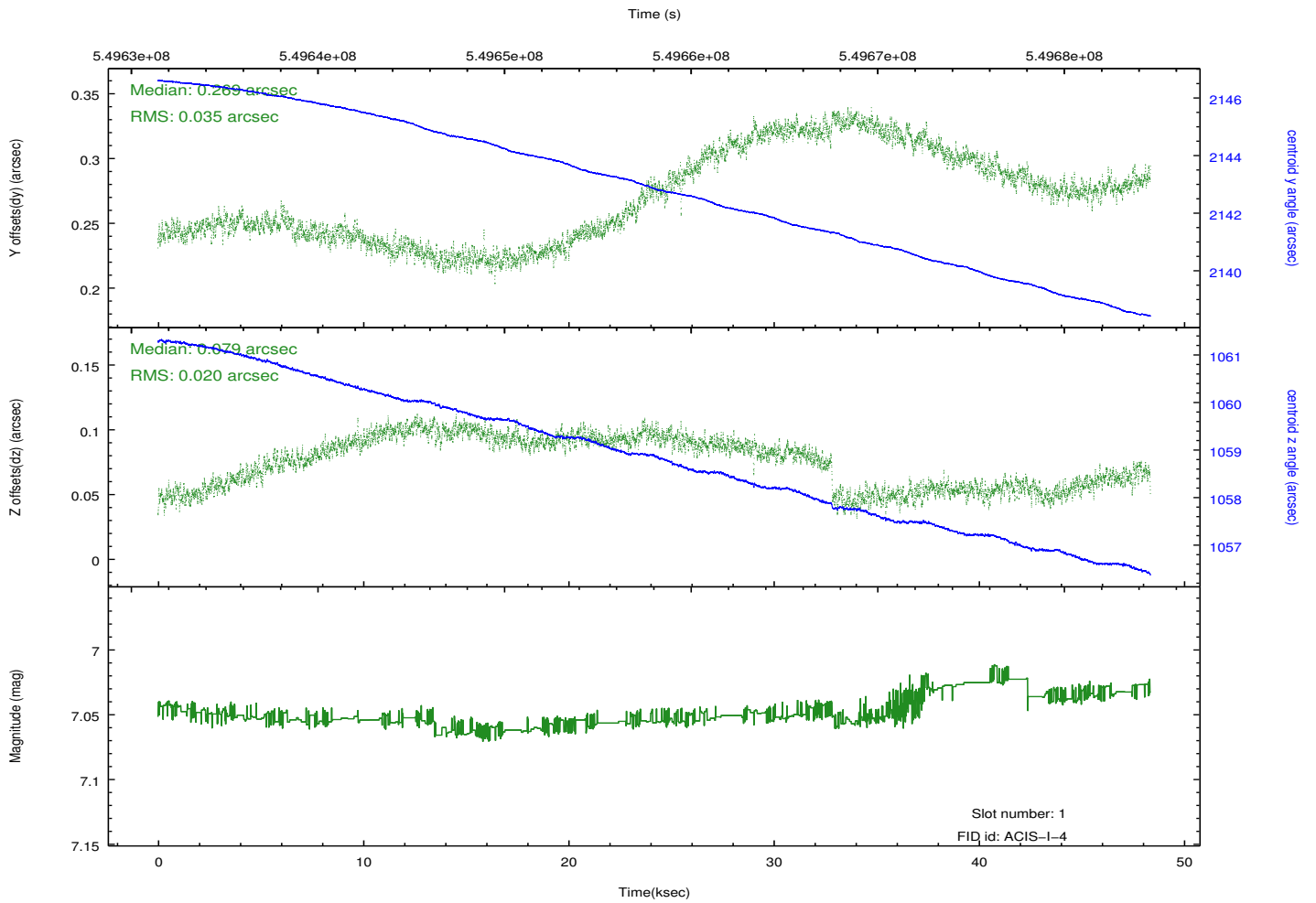
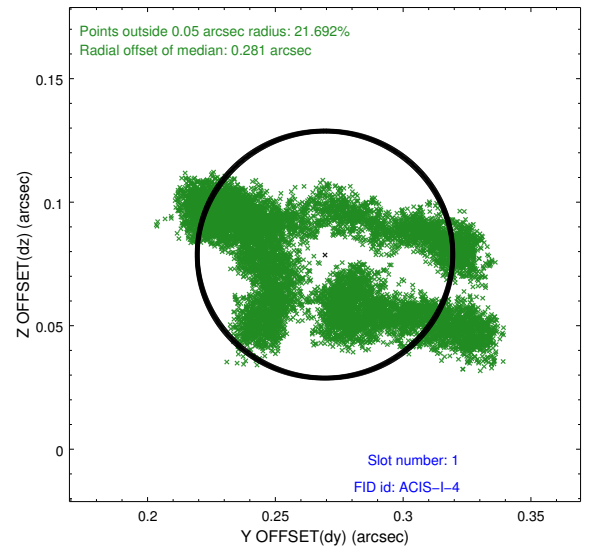
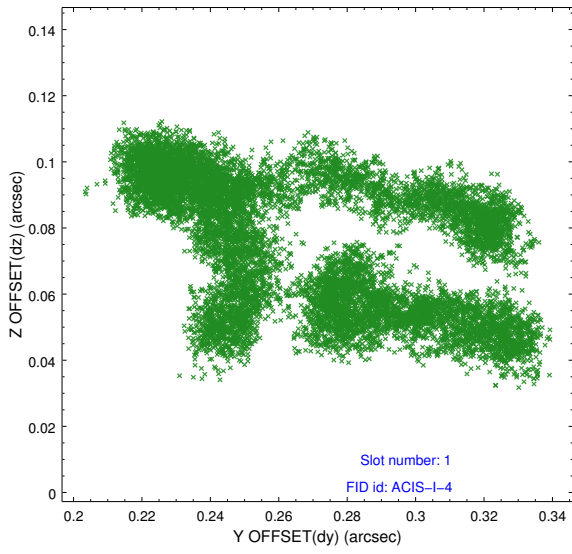


2.5 FID Slots

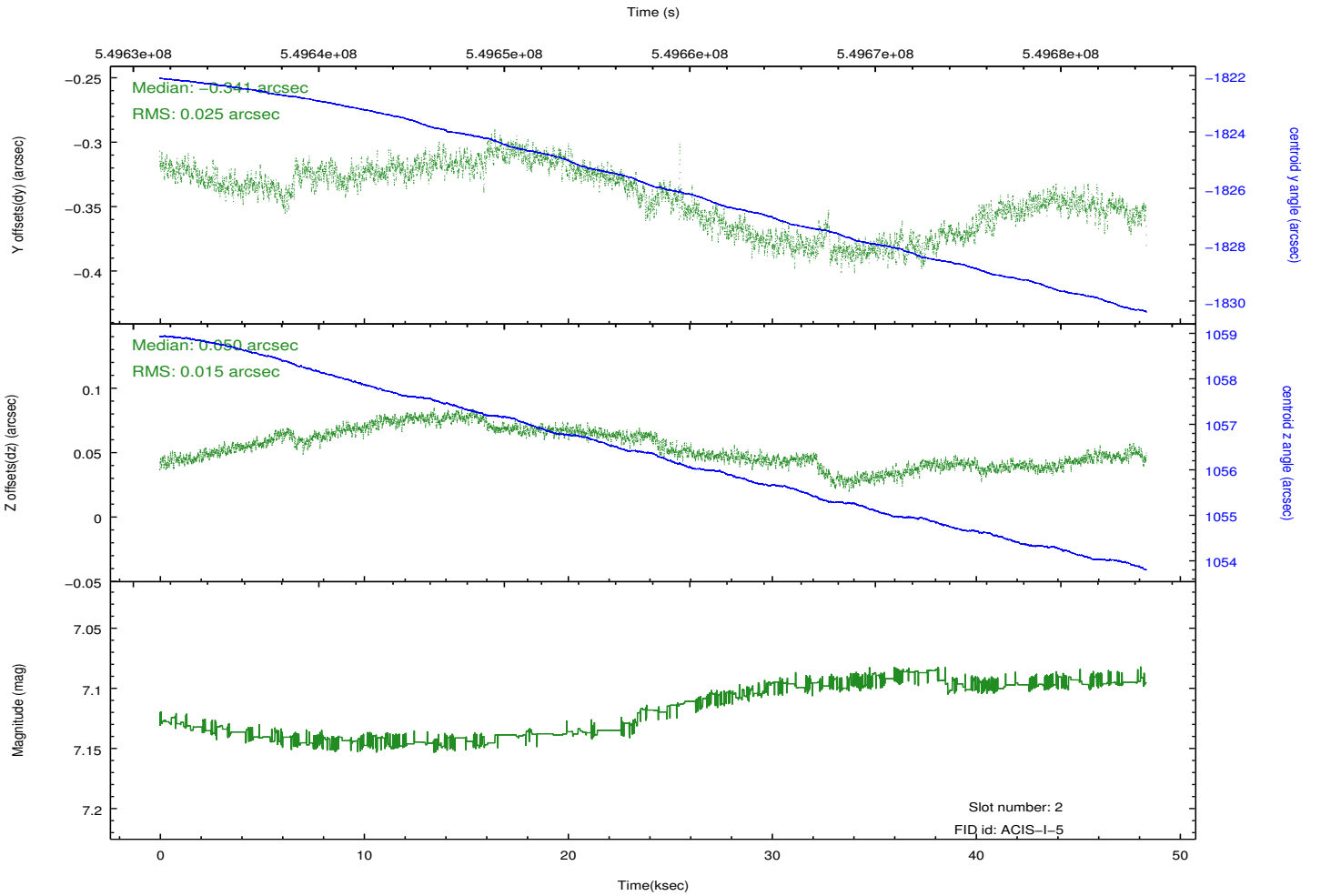
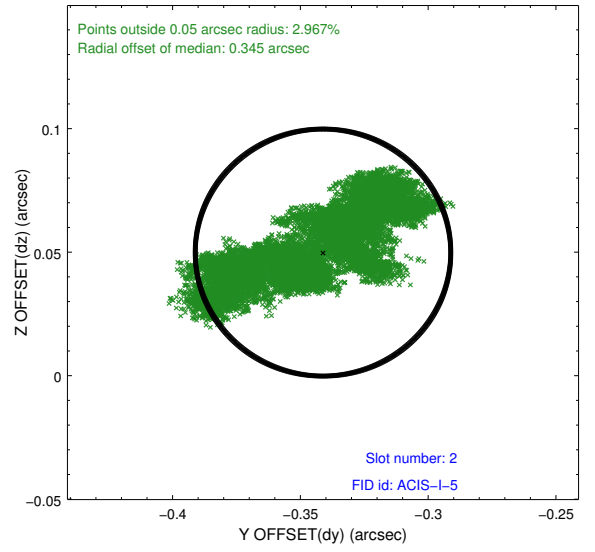
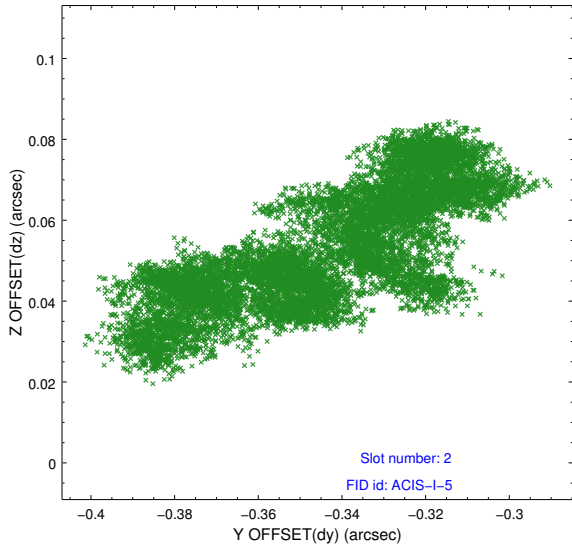
2.5.1 Slot 0



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)	2015.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	48.156800717592

A.2 Comments