

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17640 - L2 Version 1
Chandra X-Ray Center

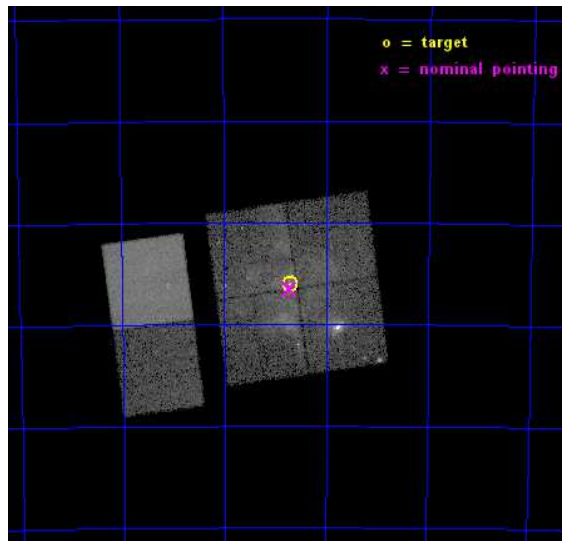
L2 Processing Date : Apr 1 2015

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1 Front

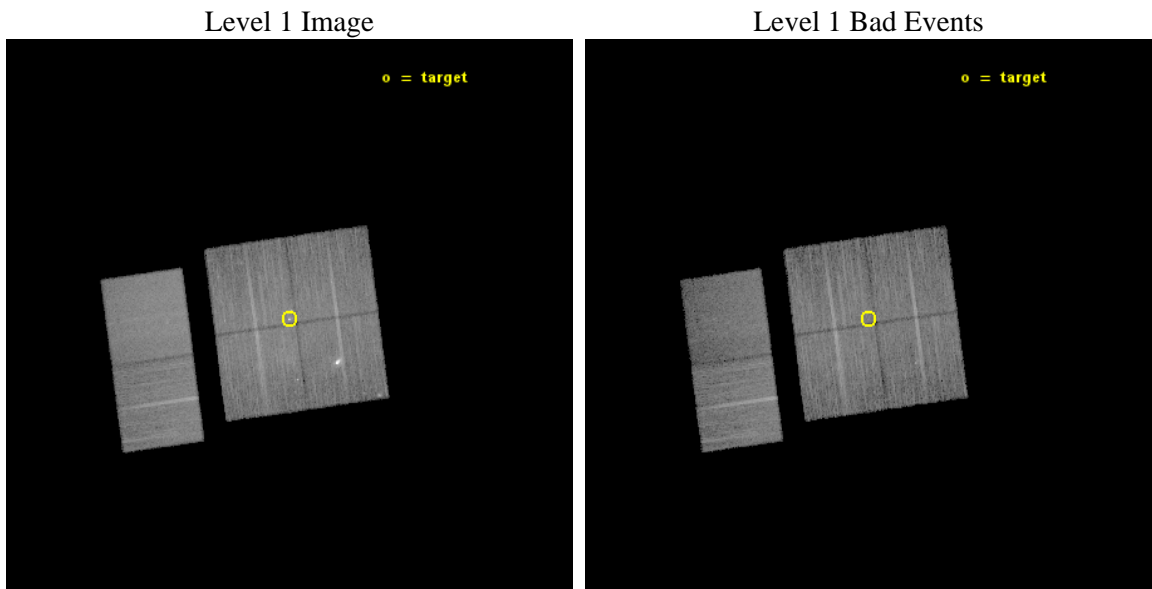
seq_num	901116	Sequence number
obs_id	17640	Observation id
title	The Tarantula -- Revealed by X-rays (T-ReX): A Definitive Chandra Investigation of 30 Doradus	Proposal title
observer	Dr. Leisa Townsley	Principal investigator
object	30 Doradus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	84.676667	Observer's specified target RA [deg]
dec_targ	-69.100806	Observer's specified target Dec [deg]
ra_nom	84.680475331814	Nominal RA [deg]
dec_nom	-69.108884981589	Nominal Dec [deg]
roll_nom	262.21225692112	Nominal Roll [deg]
revision	1	Processing version of data
ontime	26655.766604662	Sum of GTIs [s]
livetime	26318.235237738	Livetime [s]
ontime0	26655.643484712	Sum of GTIs [s]
ontime1	26658.925534964	Sum of GTIs [s]
ontime2	26658.966575027	Sum of GTIs [s]
ontime3	26655.766604662	Sum of GTIs [s]
ontime6	26659.089694977	Sum of GTIs [s]
ontime7	26659.048655033	Sum of GTIs [s]
l2events	162536	Number of level 2 events



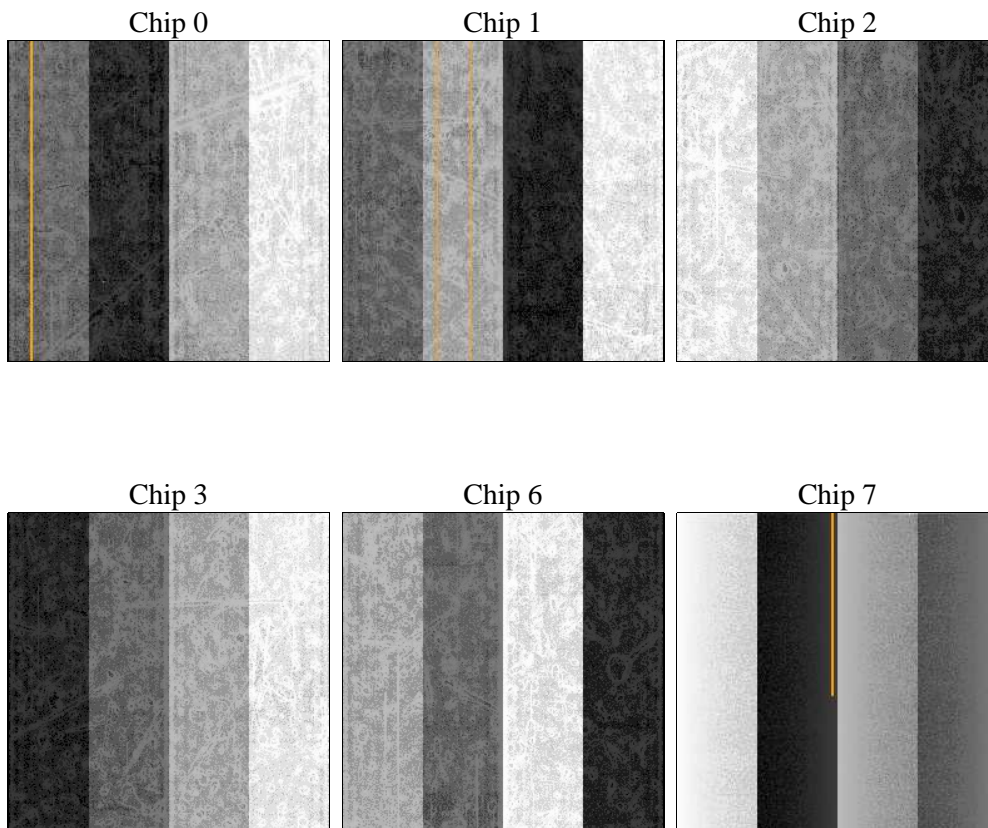
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26688.358000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	26655.766604662	Sum of GTIs [s]
caldbver	4.6.7	 	ontime0	26655.643484712	Sum of GTIs [s]
date	2015-04-01T15:50:08	Date and time of file creation	ontime1	26658.925534964	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	26658.966575027	Sum of GTIs [s]
			ontime3	26655.766604662	Sum of GTIs [s]
			ontime6	26659.089694977	Sum of GTIs [s]
			ontime7	26659.048655033	Sum of GTIs [s]
			l1events	725870	Number of level 1 events

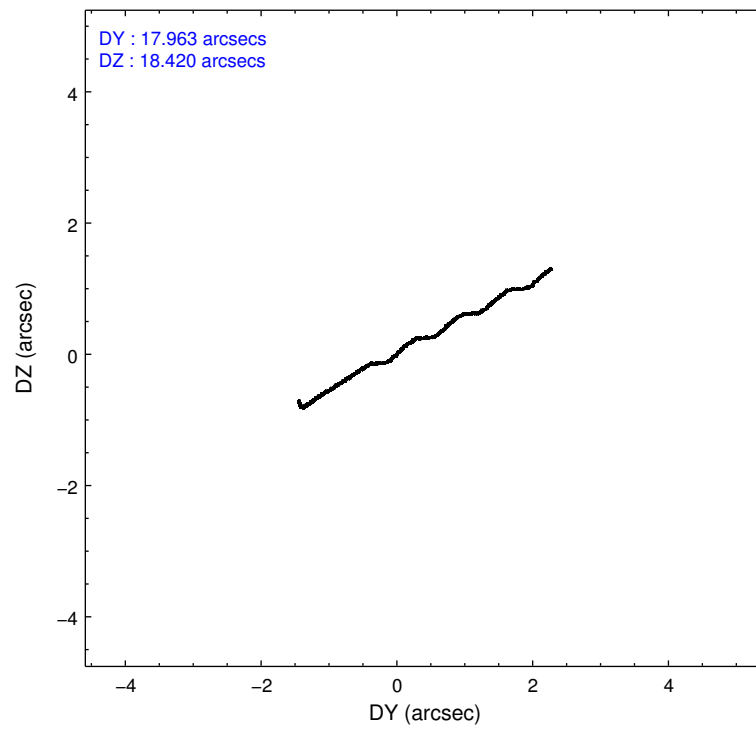
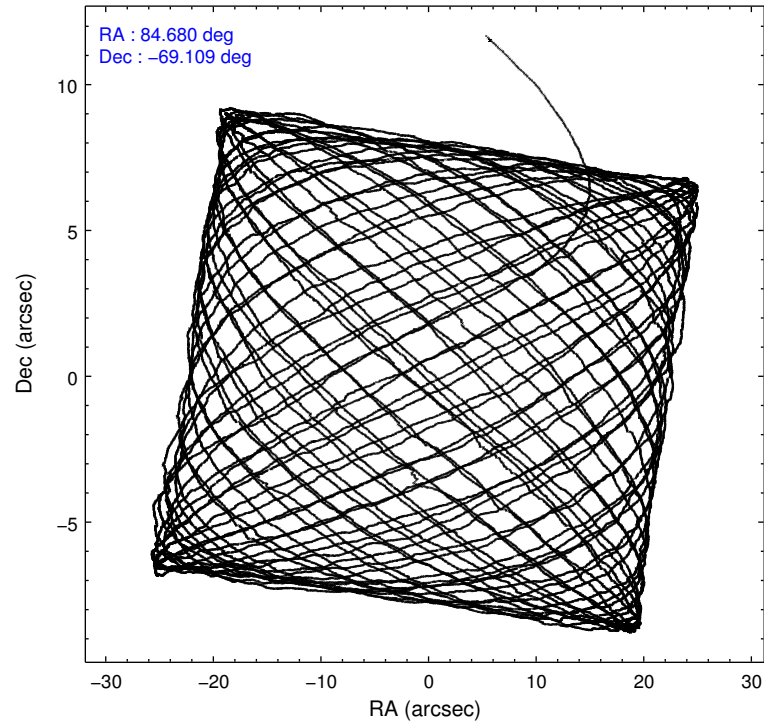
2.1.4 Events

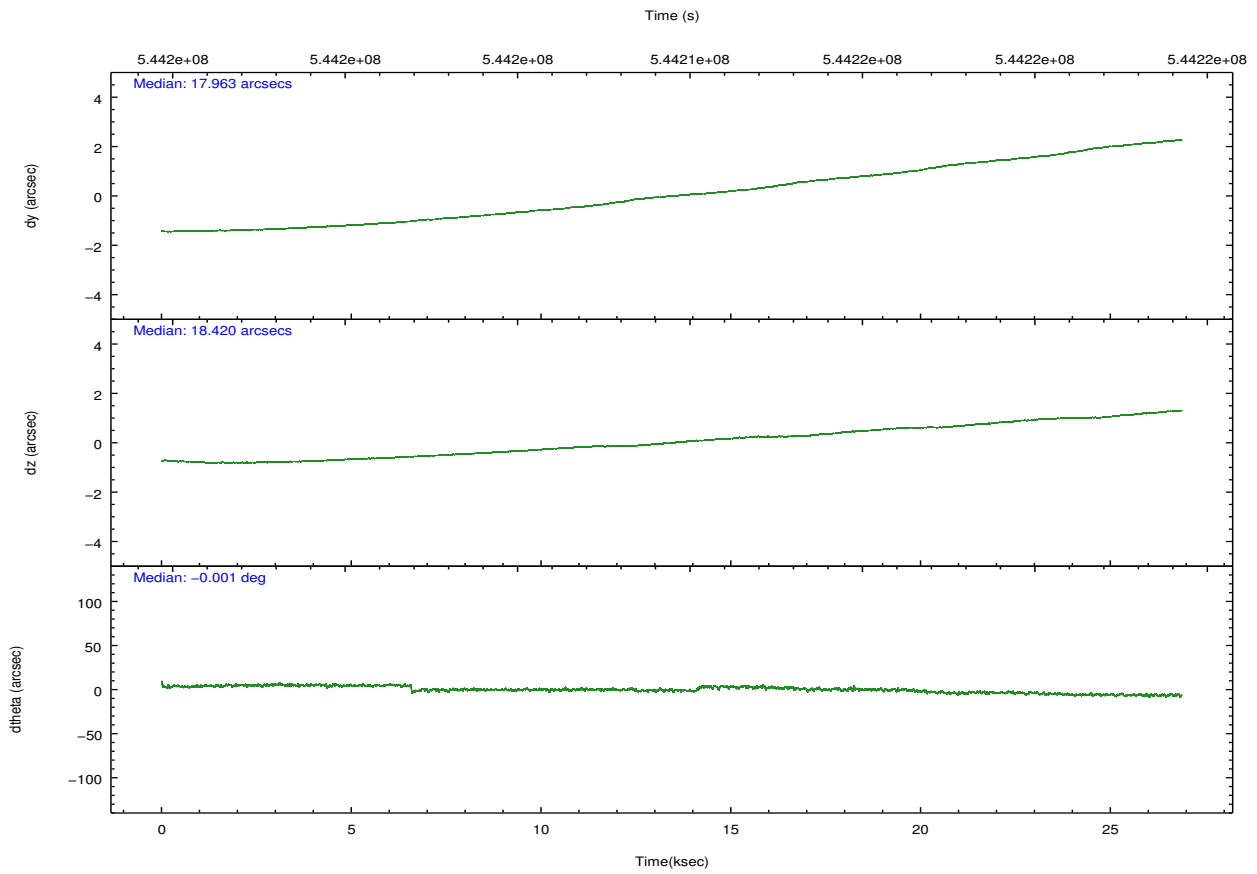
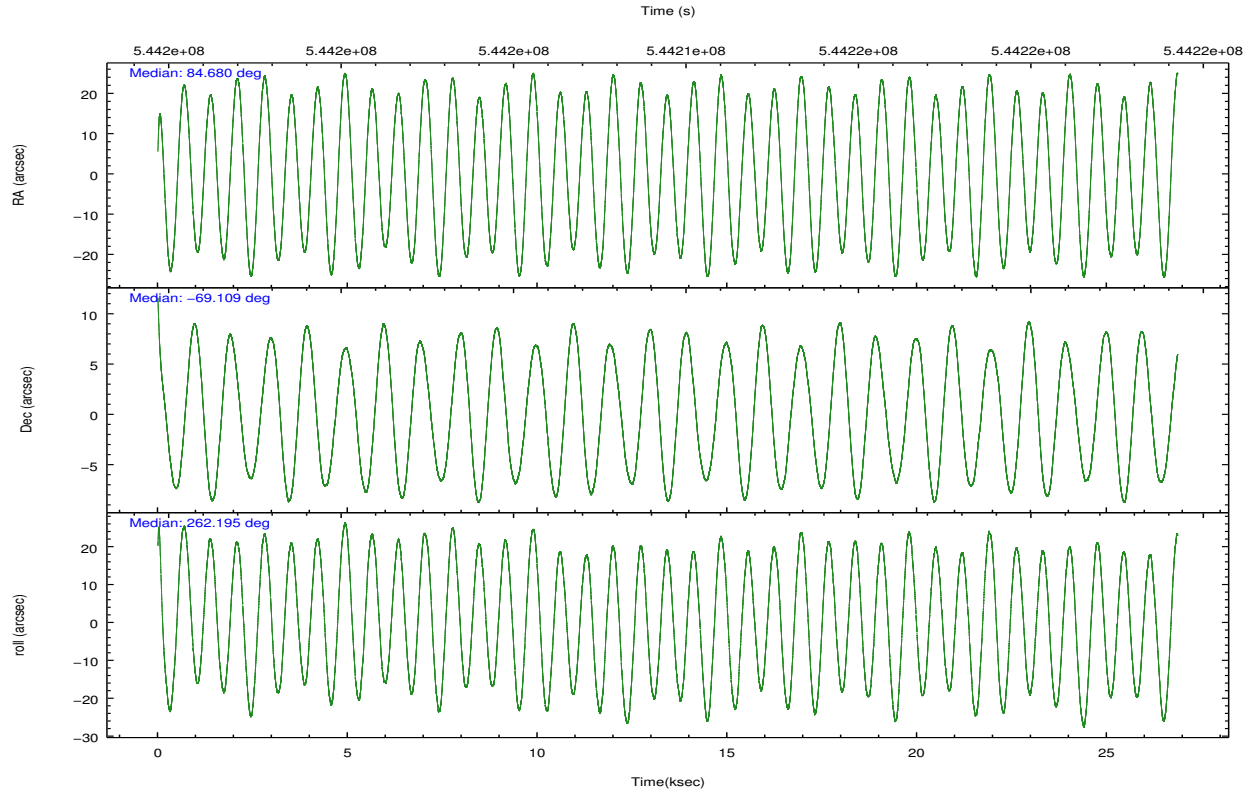
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	124434	107137	121339	118339	116520	138101	grade 0 events	22318	9110	11854	13030	6154	7408
rejected events	89762	88658	100352	96002	101175	71389		17%	8%	9%	11%	5%	5%
rejected %	72%	82%	82%	81%	86%	51%	grade 1 events	187	65	90	113	55	203
								0%	0%	0%	0%	0%	0%
							grade 2 events	5352	3524	3867	3669	3385	14689
								4%	3%	3%	3%	2%	10%
							grade 3 events	2028	1429	1402	1492	1389	5994
								1%	1%	1%	1%	1%	4%
							grade 4 events	1928	1471	1455	1542	1360	5693
								1%	1%	1%	1%	1%	4%
							grade 5 events	4445	4836	4095	5097	5195	14115
								3%	4%	3%	4%	4%	10%
							grade 6 events	3050	2952	2420	2607	3057	32941
								2%	2%	1%	2%	2%	23%
							grade 7 events	85126	83750	96156	90789	95925	57058
								68%	78%	79%	76%	82%	41%

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	84.651004	84.68047533181398	CCD I2 on	Y	Y
[deg] Pointing Dec	-69.083353	-69.10888498158937	CCD I3 on	Y	Y
[deg] Pointing Roll	261.976029	262.2122569211185	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)	544196224.184000	544194883.98446	CCD S5 on	N	N
Observation start date	2015-03-31T13:35:57	2015-03-31T13:14:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	544222913.184000	544223151.43604	On-chip summing requested	N	N
Observation end date	2015-03-31T21:00:46	2015-03-31T21:05:51	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



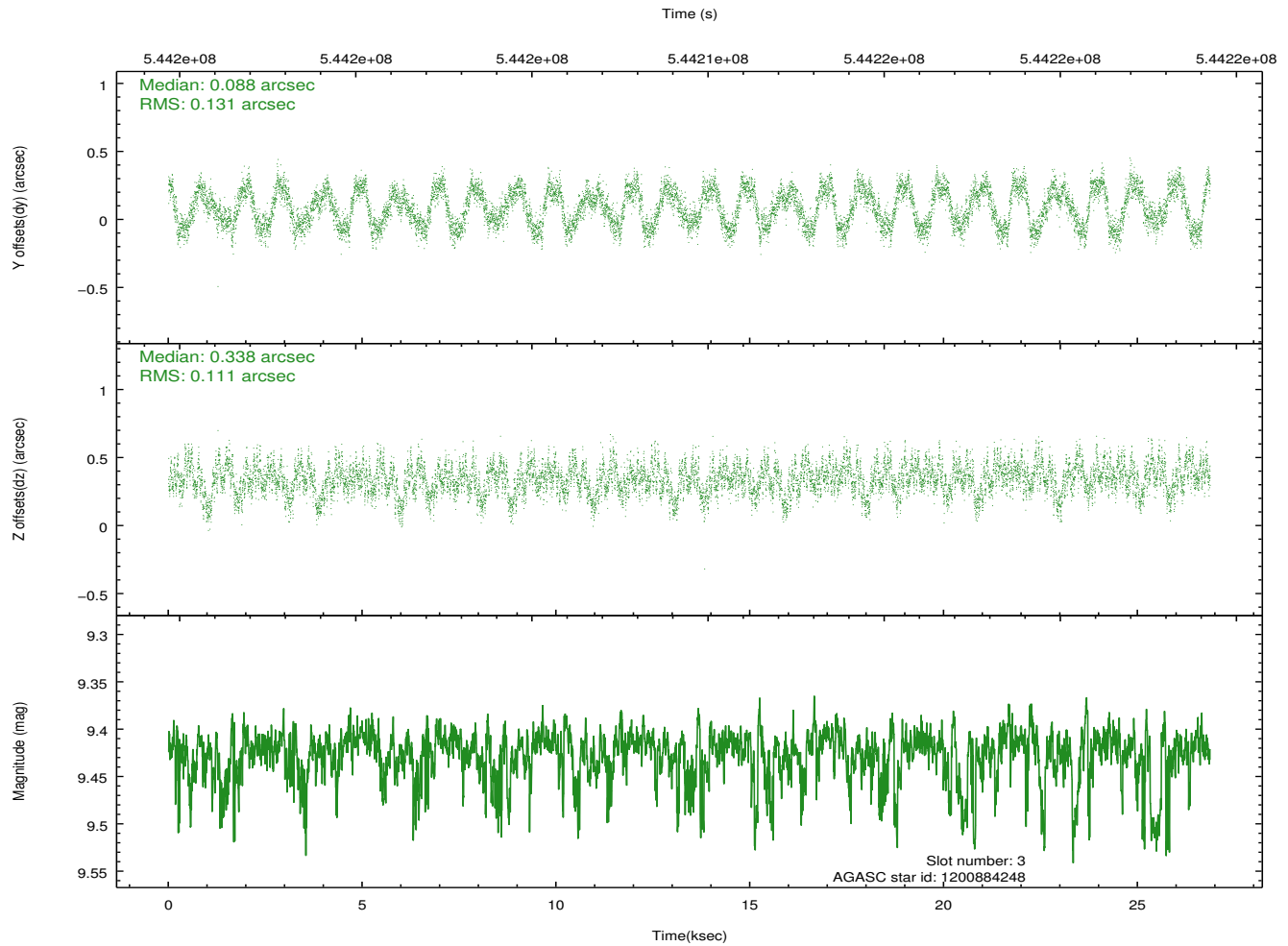
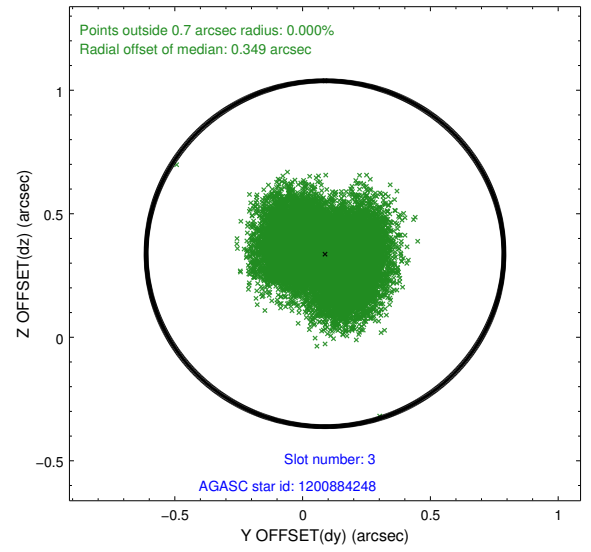
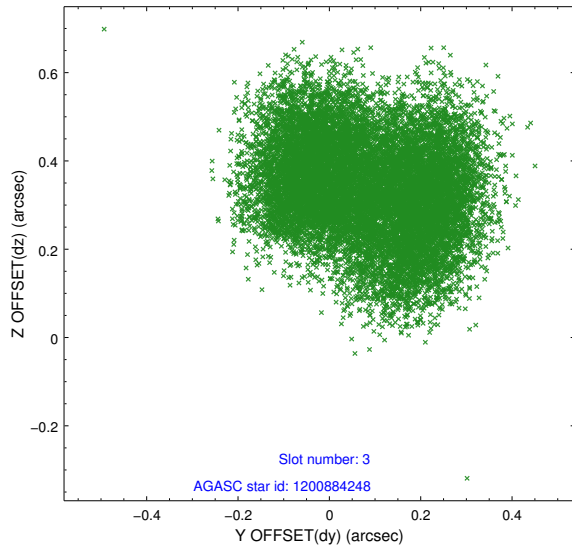


Slot Statistics

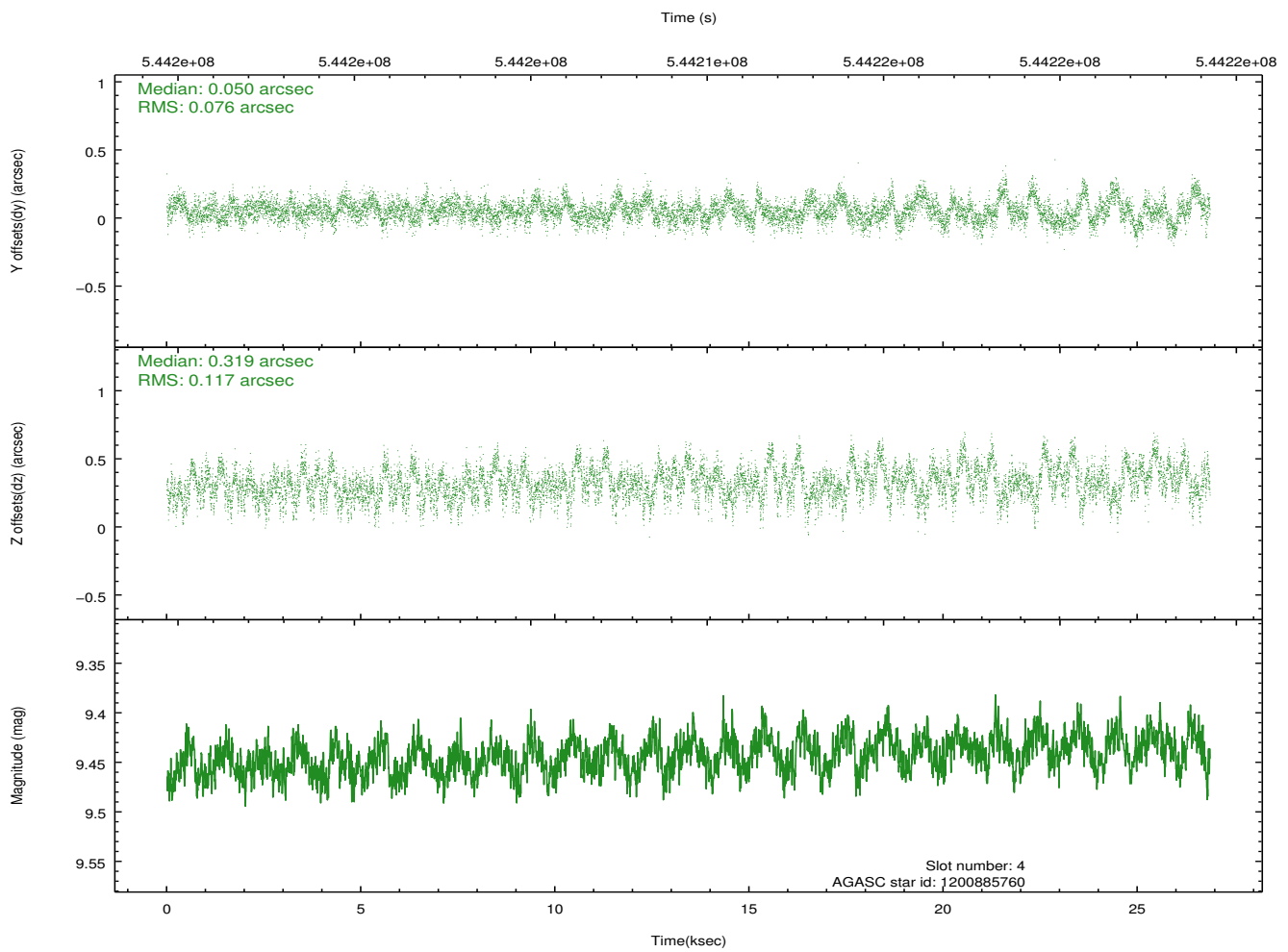
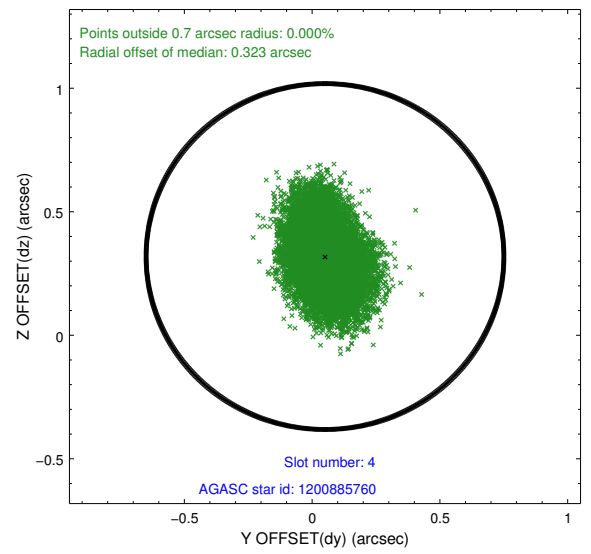
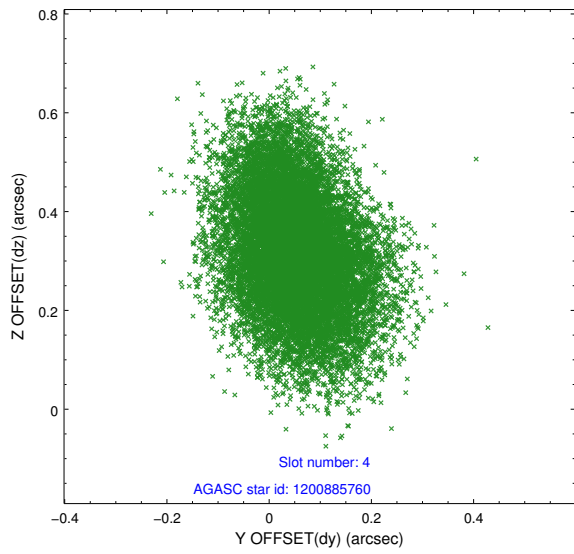
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.10	6553	-0.059	0.022	0.021	0.034	0.000000	0.000000	921.24	-842.16
1	FID		ACIS-I-2	7.01	6554	-0.214	-0.116	0.015	0.025	0.000000	0.000000	-772.95	-848.77
2	FID		ACIS-I-4	7.04	6553	0.179	0.159	0.017	0.026	0.000000	0.000000	2141.35	1057.71
3	GUIDE	used	1200884248	9.42	13098	0.088	0.338	0.190	0.273	83.880915	-68.565170	-1699.20	-1262.12
4	GUIDE	used	1200885760	9.44	13097	0.050	0.319	0.148	0.246	83.723637	-68.777667	-911.25	-1348.45
5	GUIDE	used	1201018384	9.03	13099	0.123	-0.059	0.117	0.201	85.801362	-68.593260	-1944.38	1252.69
6	GUIDE	used	1201020040	8.59	13100	0.016	-0.097	0.112	0.168	85.379163	-68.879396	-853.51	833.74
7	GUIDE	used	1201018312	9.60	13099	-0.265	-0.502	0.136	0.231	86.298231	-69.115627	-152.63	2113.11

2.4 Star Slots

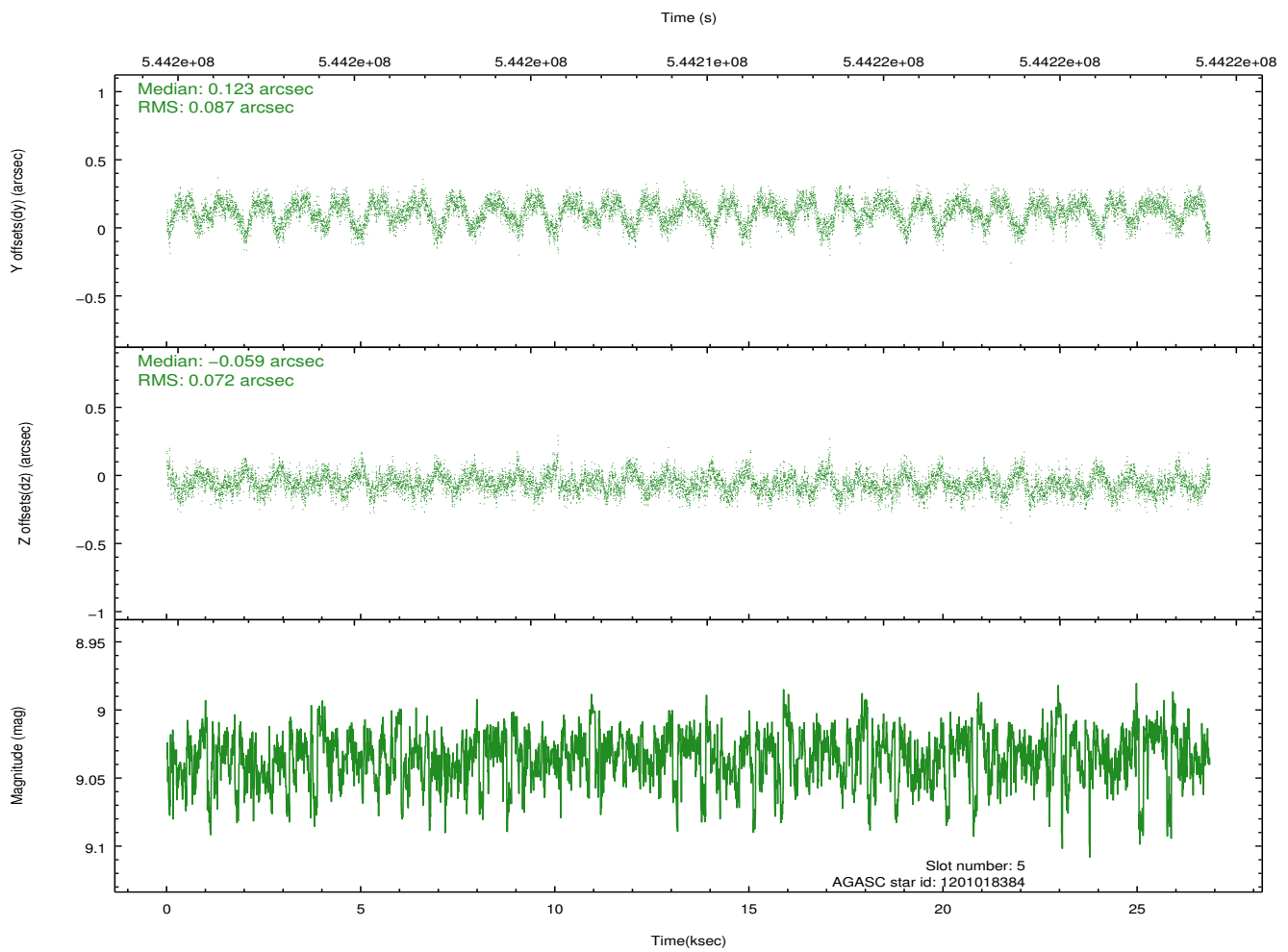
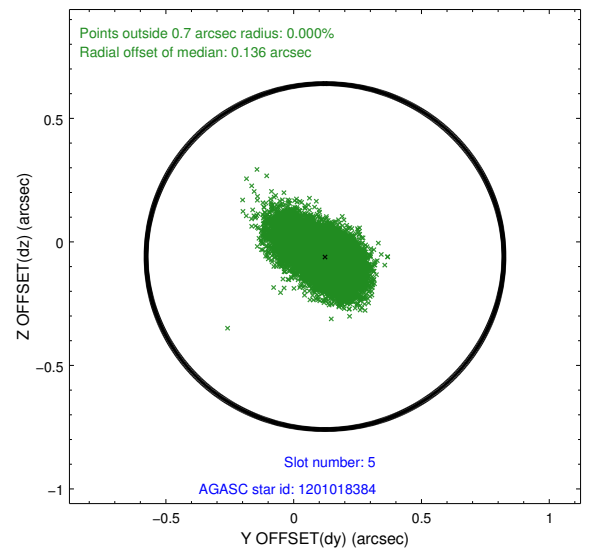
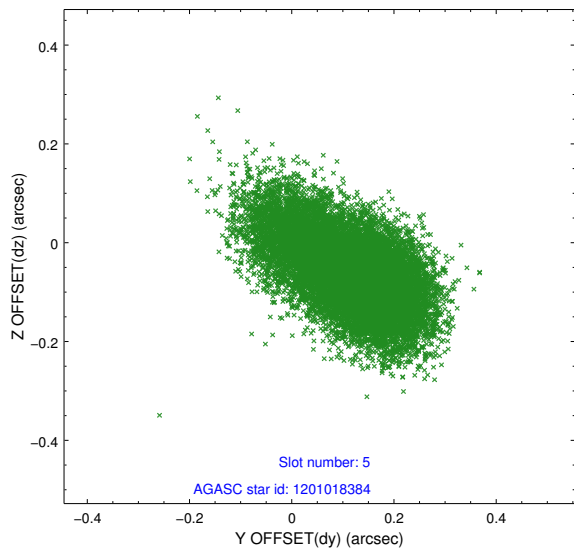
2.4.1 Slot 3



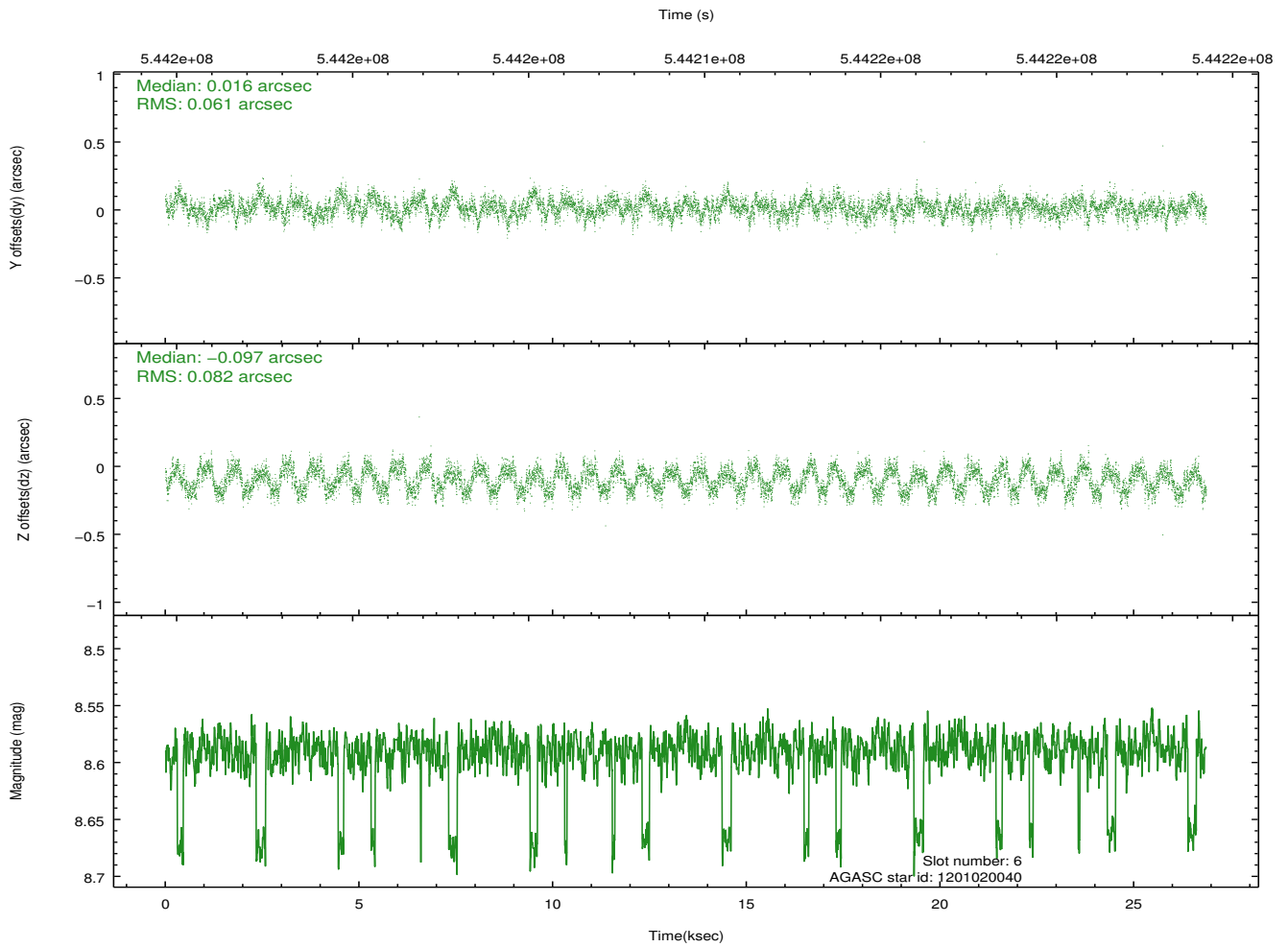
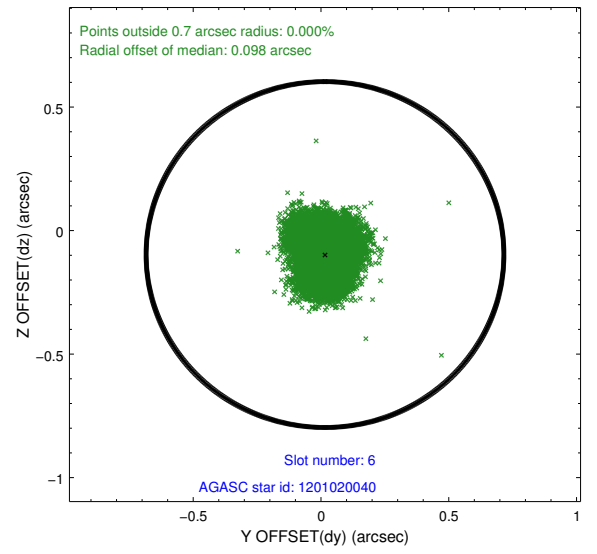
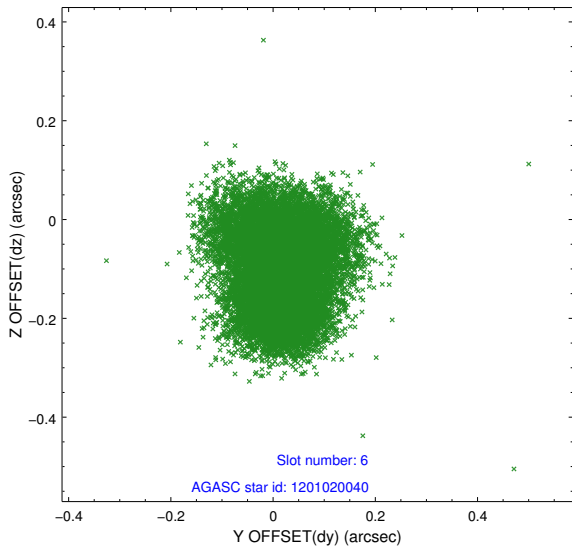
2.4.2 Slot 4



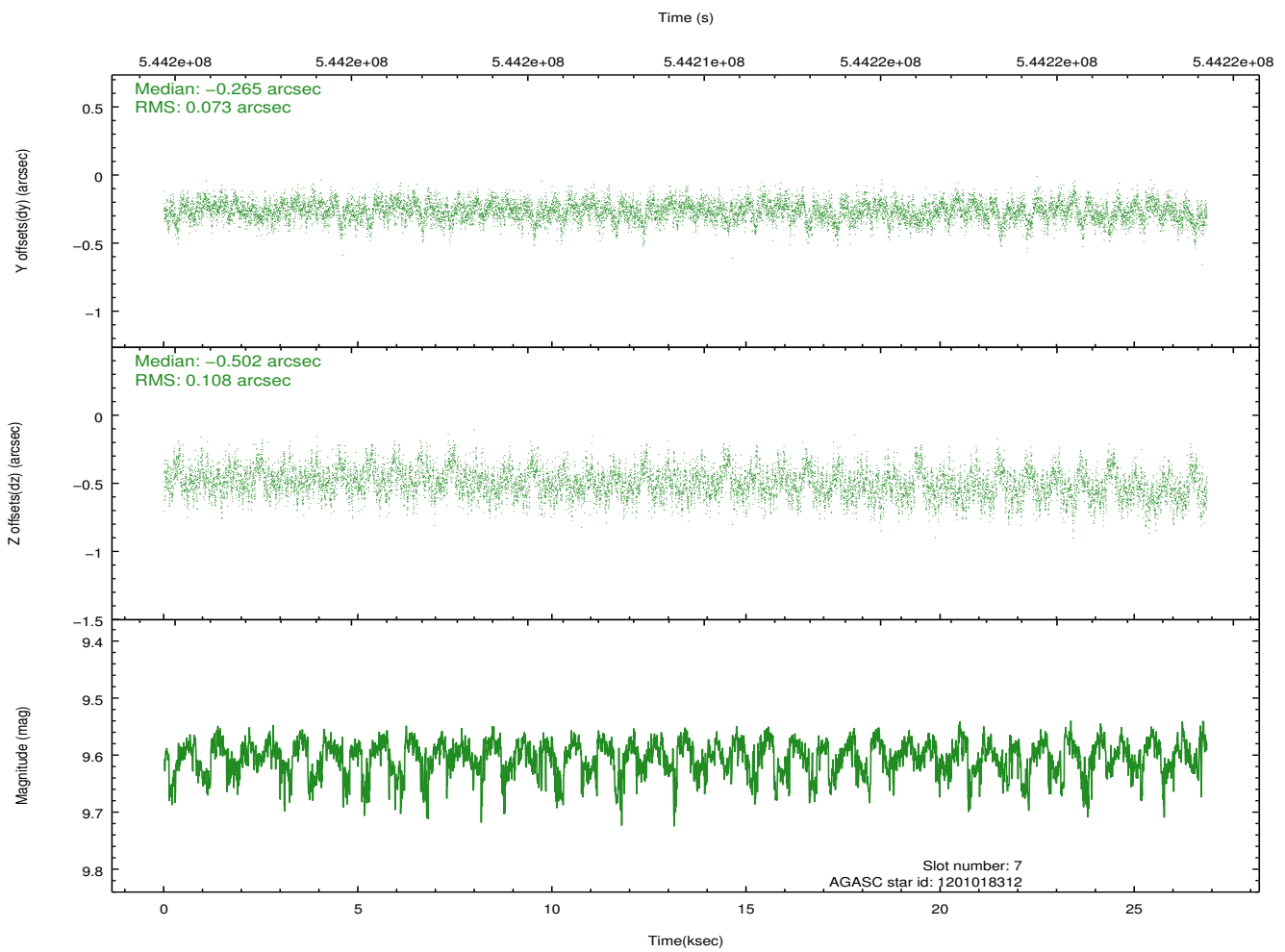
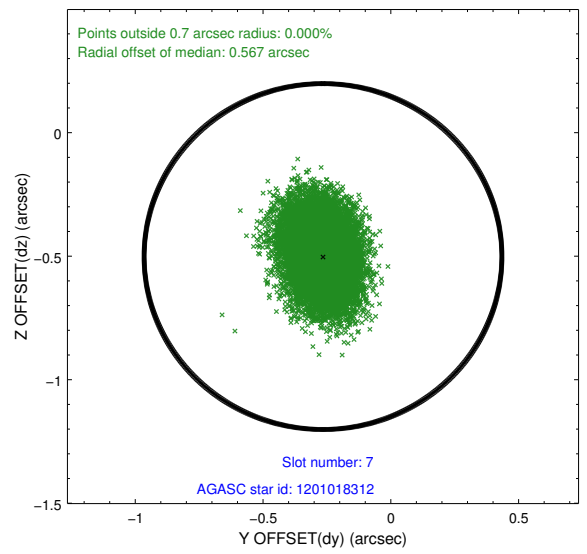
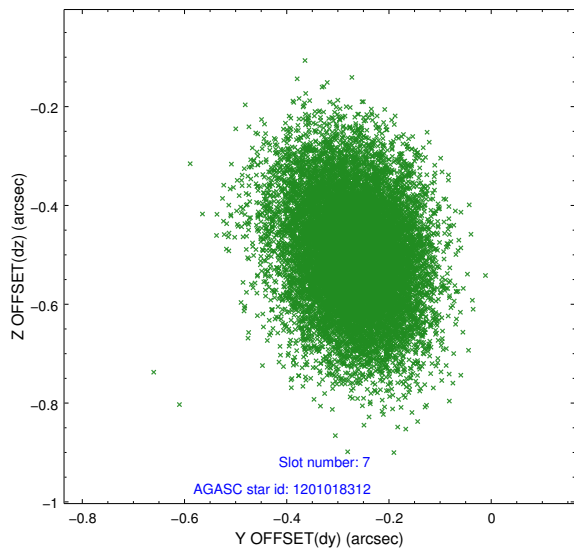
2.4.3 Slot 5



2.4.4 Slot 6

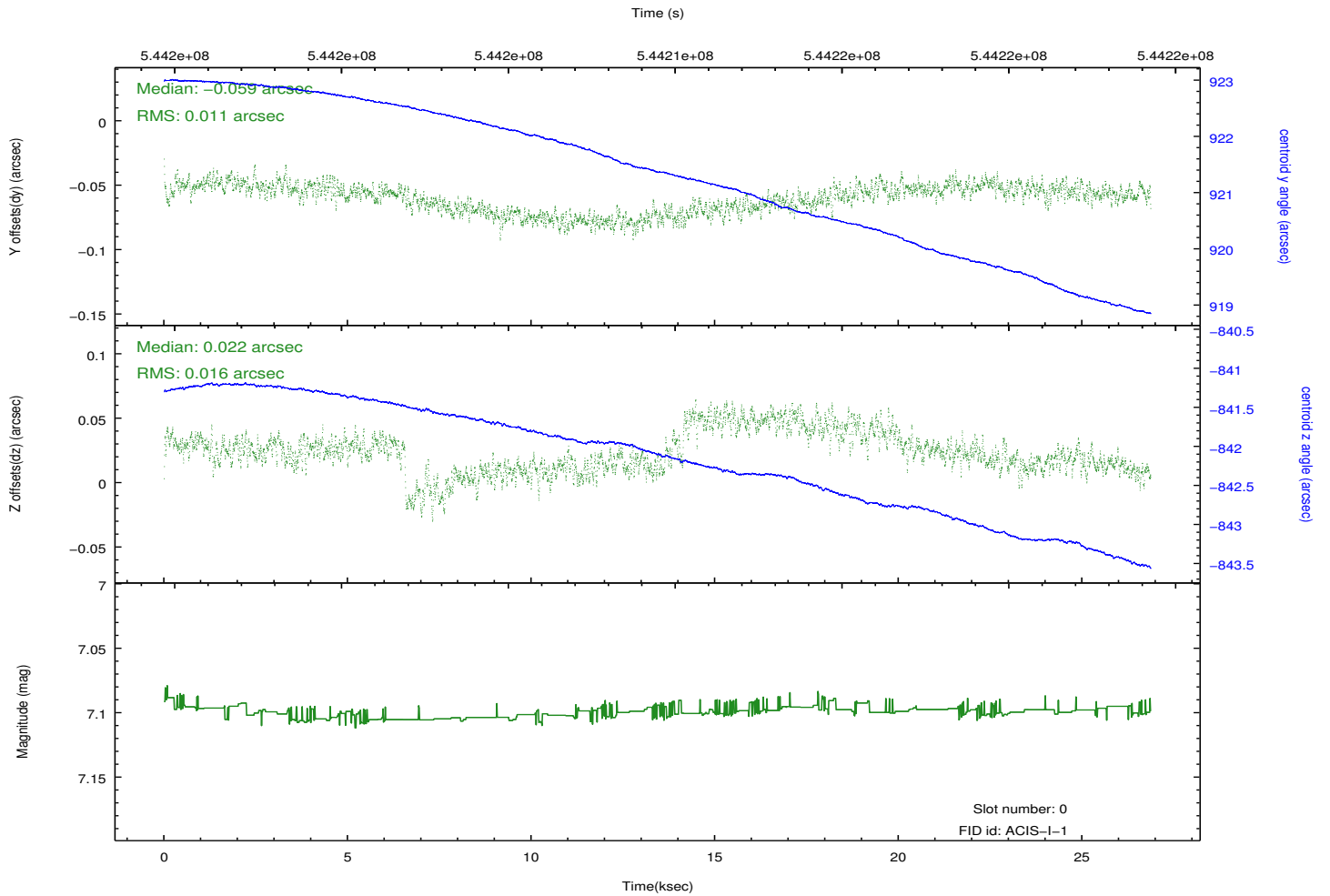
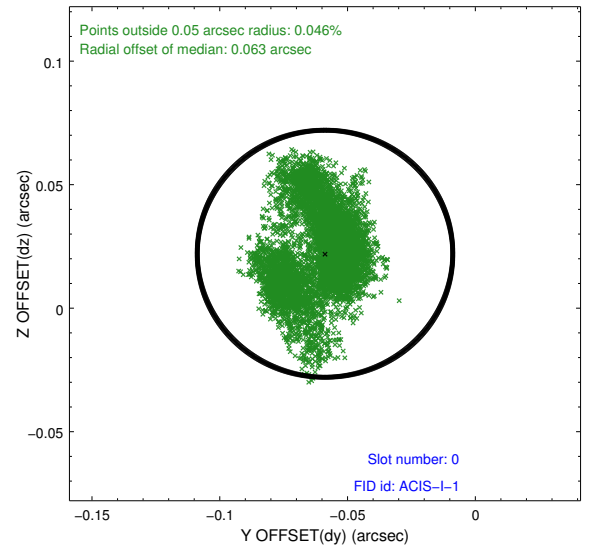
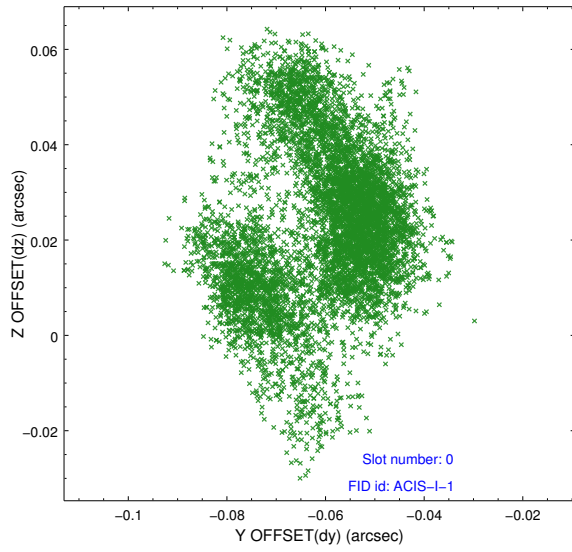


2.4.5 Slot 7

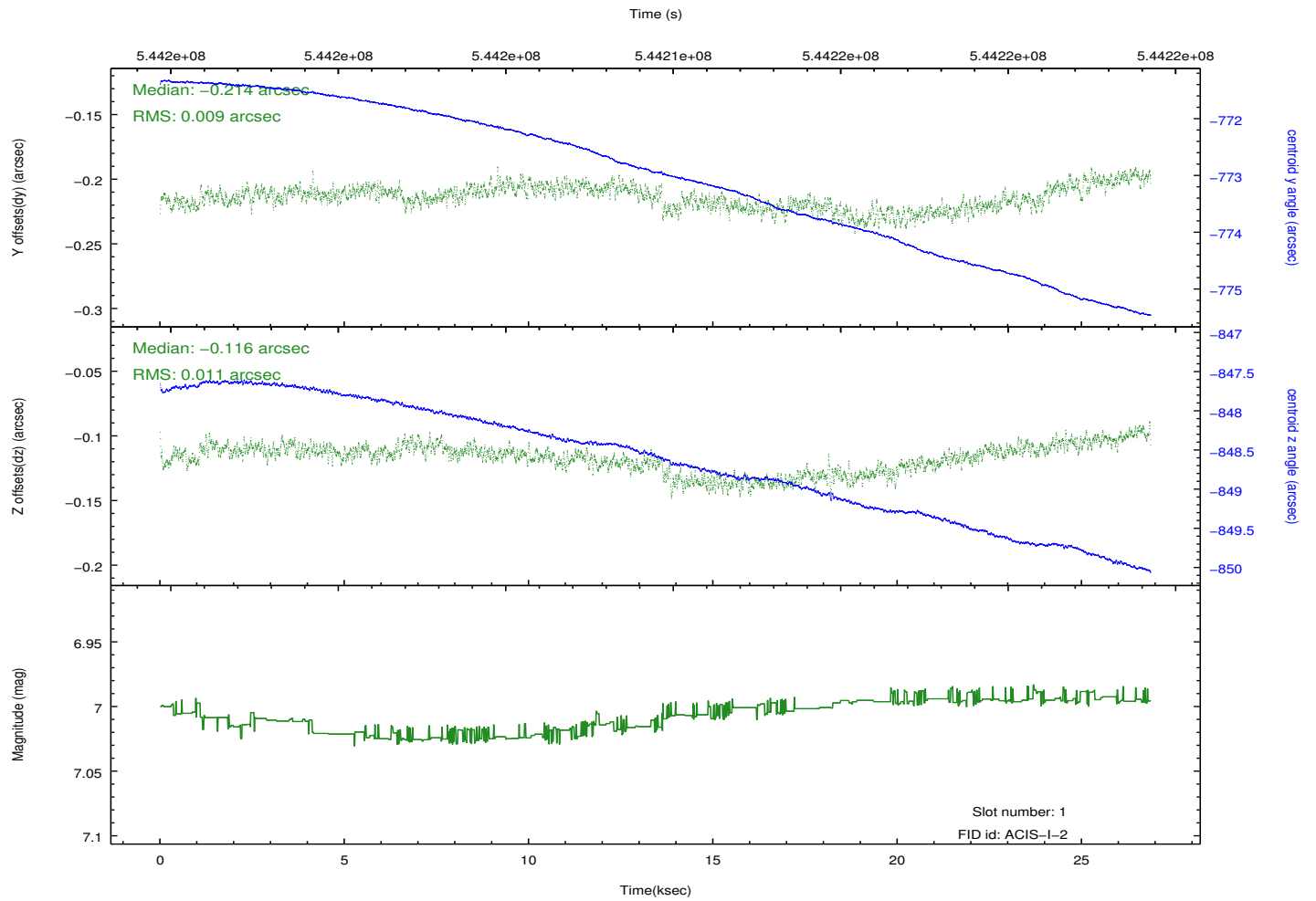
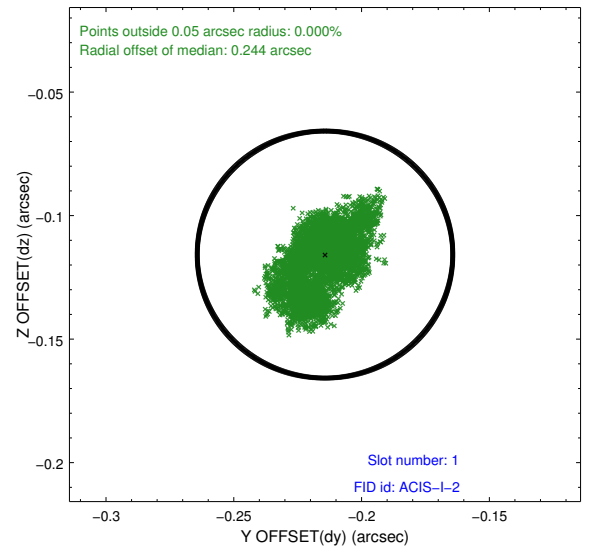
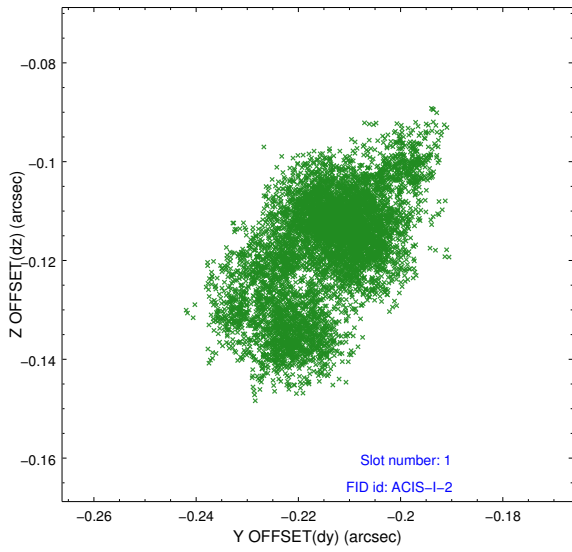


2.5 FID Slots

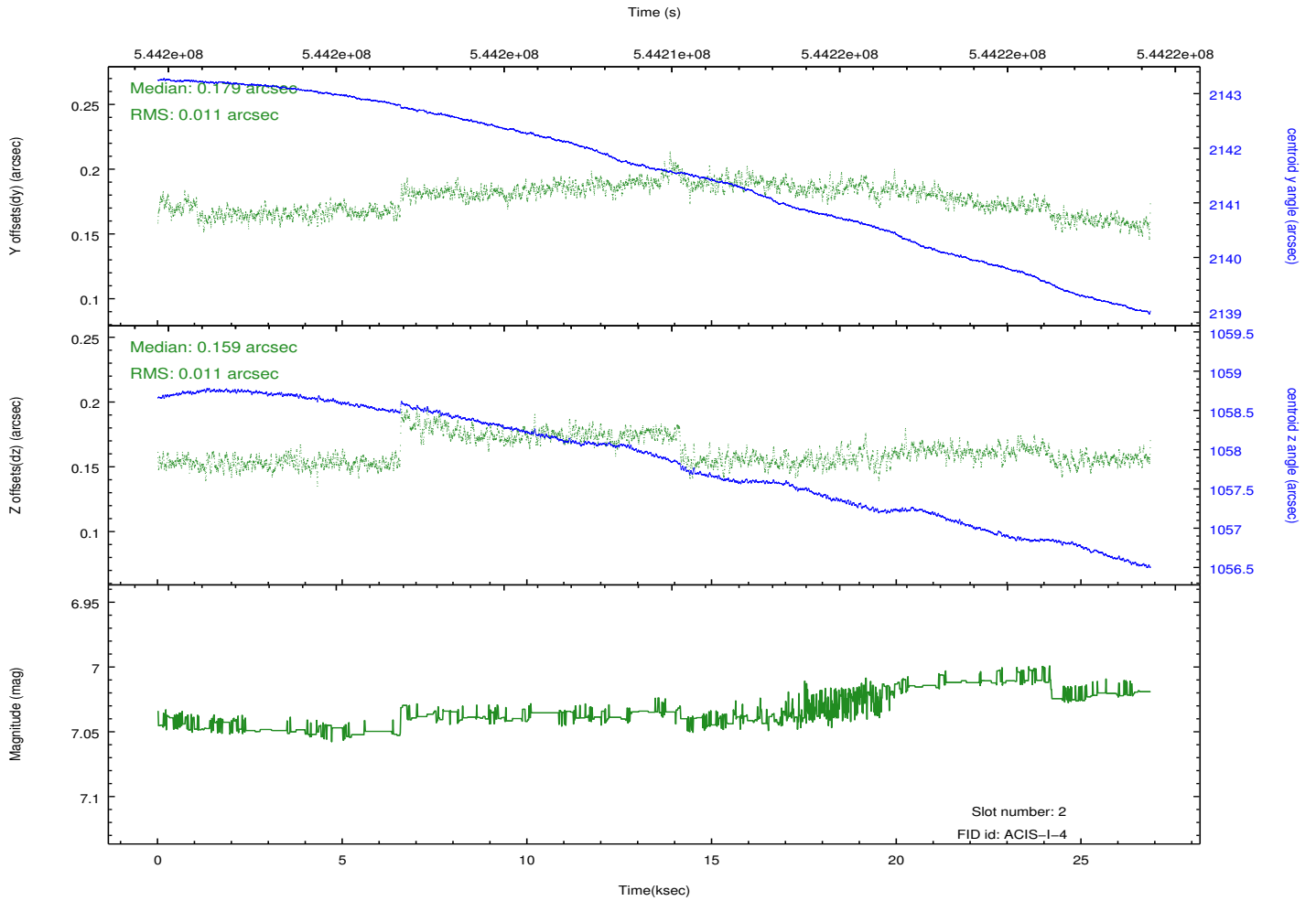
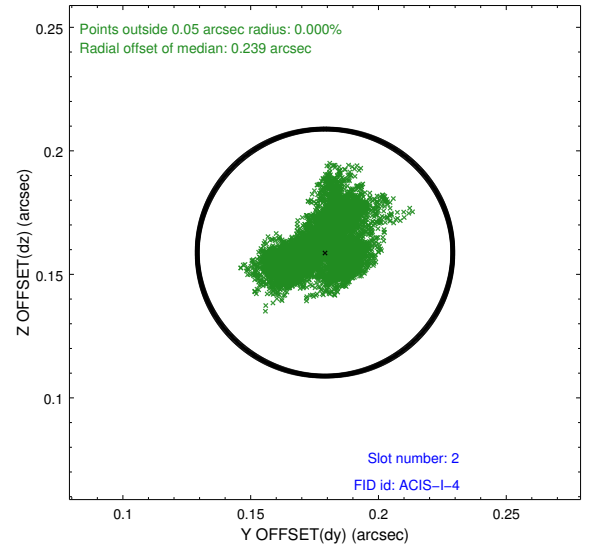
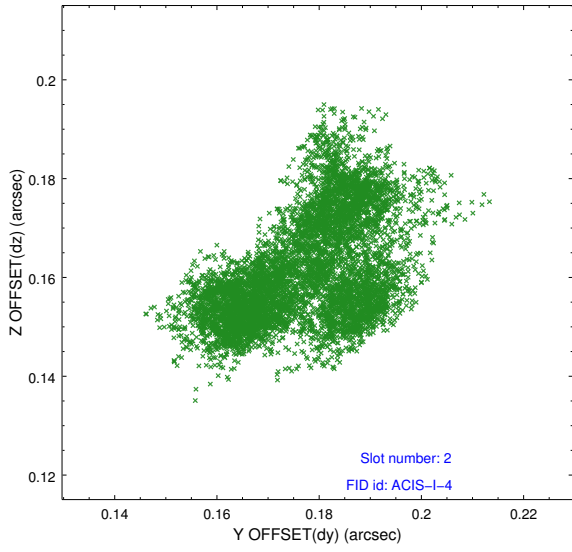
2.5.1 Slot 0



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)	2015.04.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.655766604662

A.2 Comments