

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 16448 - L2 Version 1
Chandra X-Ray Center

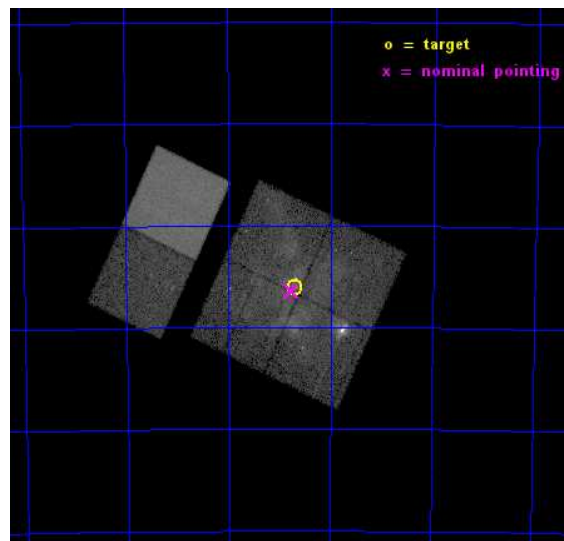
L2 Processing Date : Feb 15 2015

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1 Front

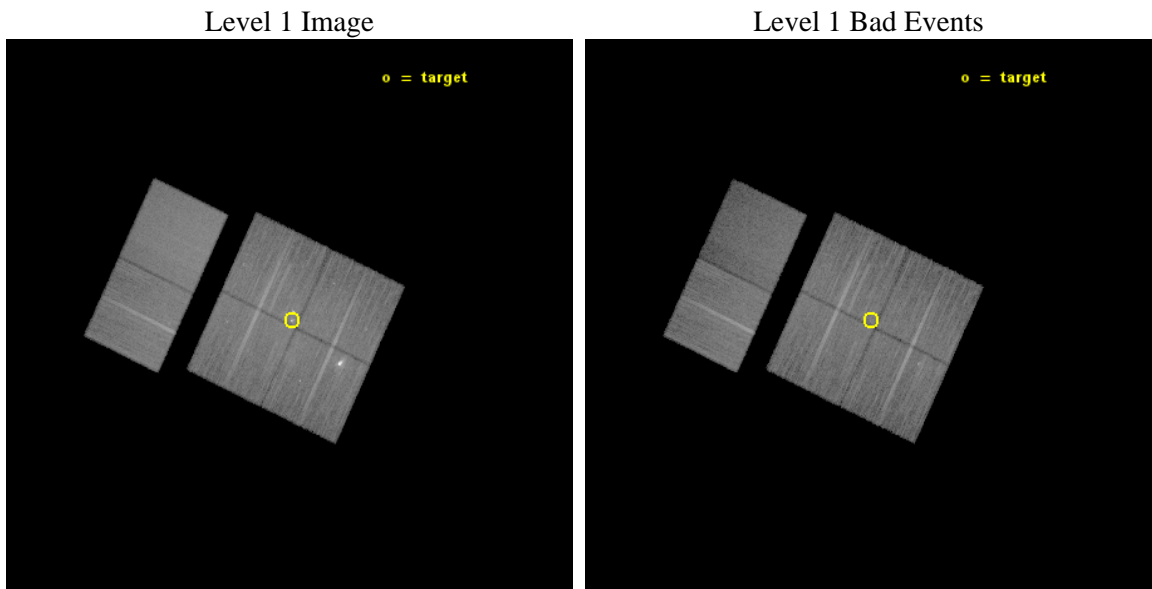
seq_num	901116	Sequence number
obs_id	16448	Observation id
title	The Tarantula -- Revealed by X-rays (T-ReX): A Definitive Chandra Investigation of 30 Doradus	Proposal title
observer	Dr. Leisa Townsley	Principal investigator
object	30 Doradus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	84.676667	Observer's specified target RA [deg]
dec_targ	-69.100806	Observer's specified target Dec [deg]
ra_nom	84.692190440199	Nominal RA [deg]
dec_nom	-69.106844109441	Nominal Dec [deg]
roll_nom	295.2231916068	Nominal Roll [deg]
revision	1	Processing version of data
ontime	35042.652269721	Sum of GTIs [s]
livetime	34598.92110653	Livetime [s]
ontime0	35045.77011025	Sum of GTIs [s]
ontime1	35039.329189539	Sum of GTIs [s]
ontime2	35039.37024951	Sum of GTIs [s]
ontime3	35042.652269721	Sum of GTIs [s]
ontime6	35045.975310206	Sum of GTIs [s]
ontime7	35045.934270263	Sum of GTIs [s]
l2events	232072	Number of level 2 events



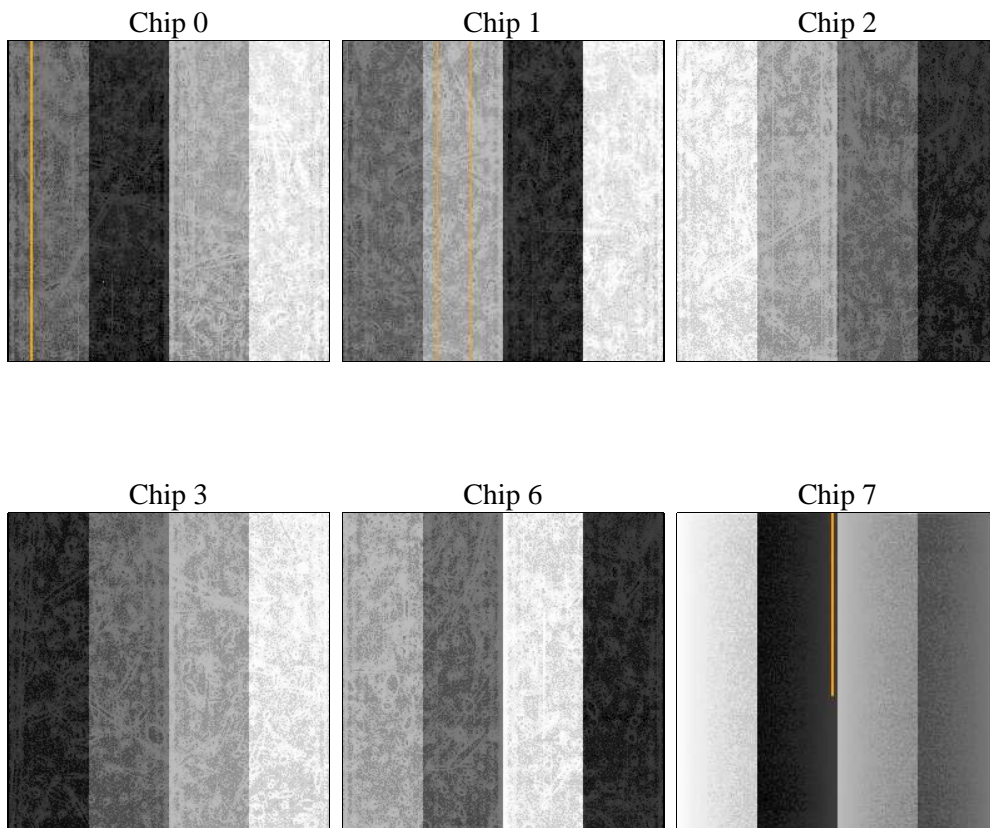
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	35079.472000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	35042.652269721	Sum of GTIs [s]
caldsver	4.6.6	 	ontime0	35045.77011025	Sum of GTIs [s]
date	2015-02-15T09:43:18	Date and time of file creation	ontime1	35039.329189539	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	35039.37024951	Sum of GTIs [s]
			ontime3	35042.652269721	Sum of GTIs [s]
			ontime6	35045.975310206	Sum of GTIs [s]
			ontime7	35045.934270263	Sum of GTIs [s]
			l1events	1060317	Number of level 1 events

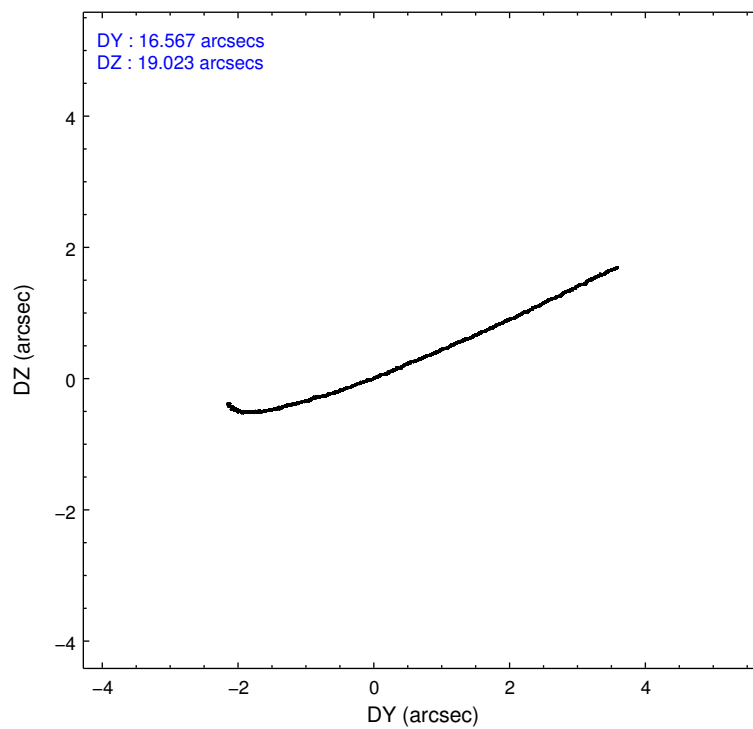
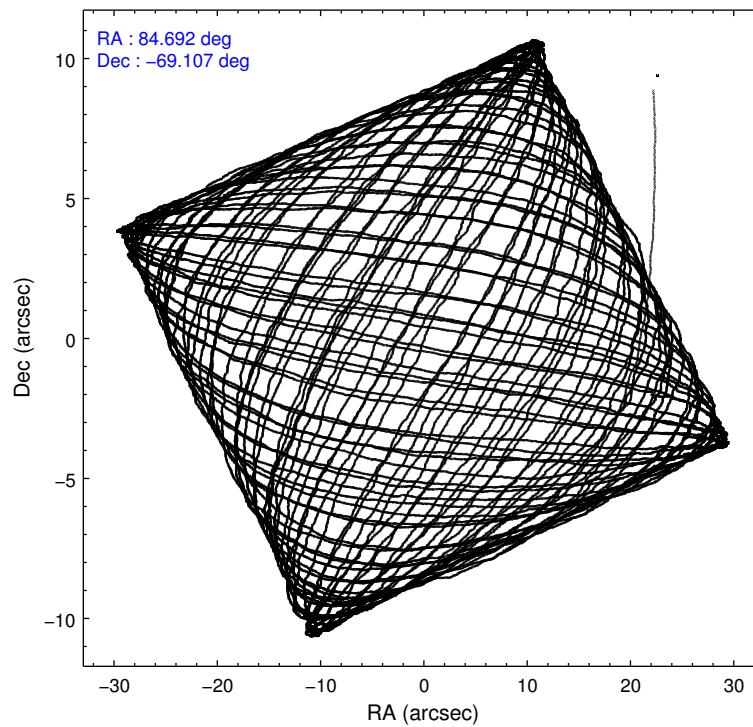
2.1.4 Events

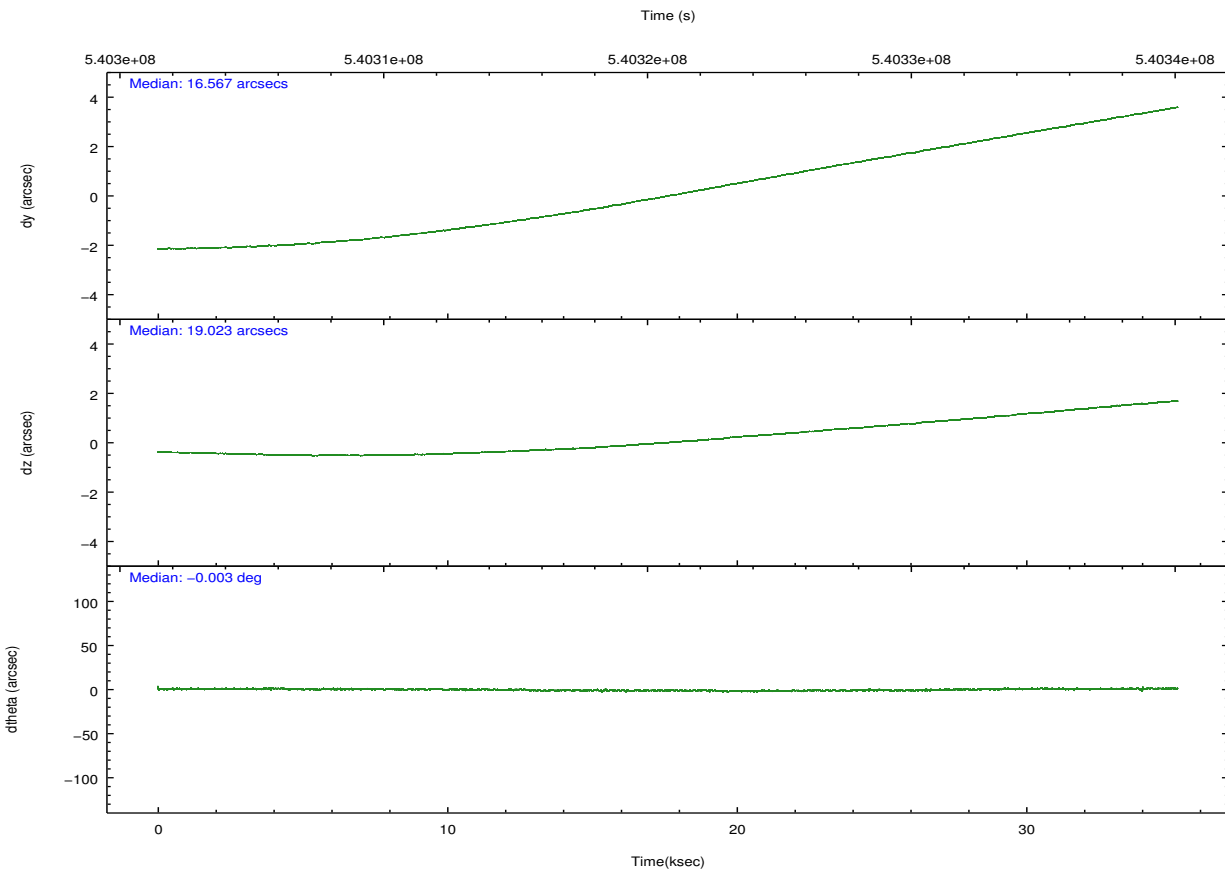
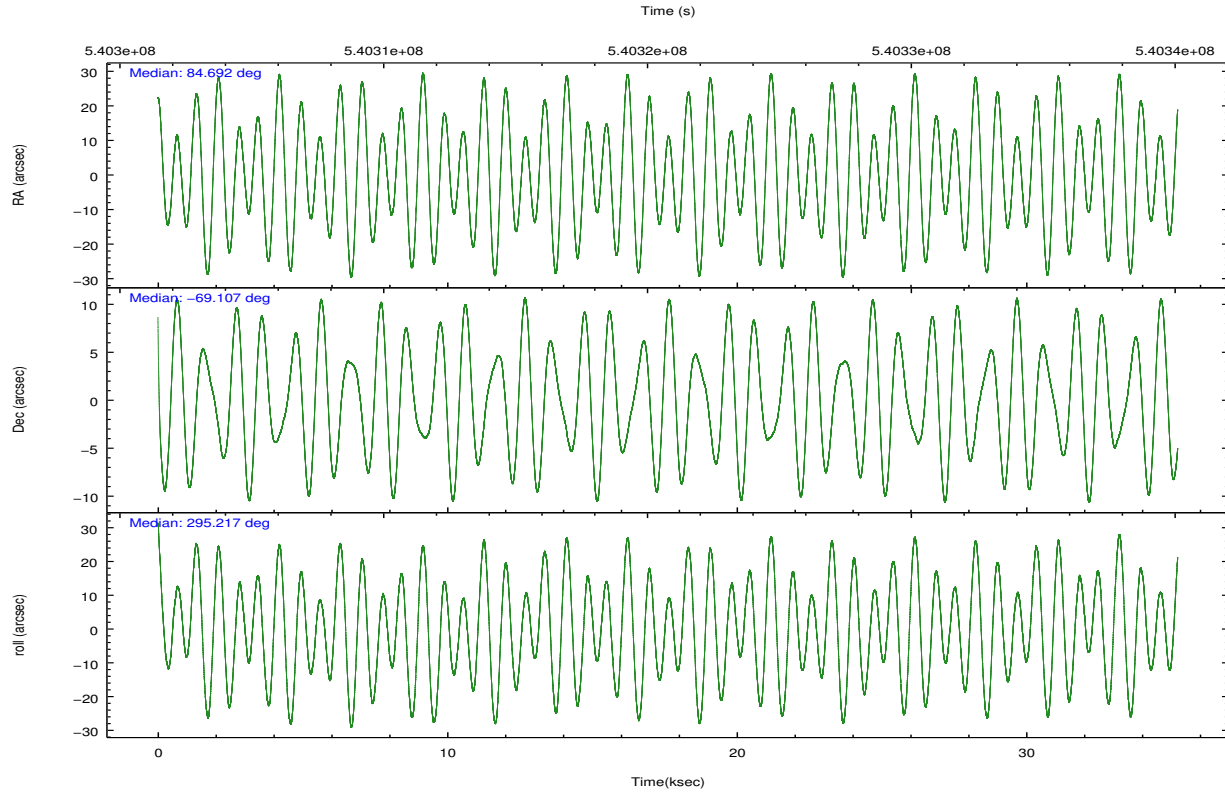
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	180767	158697	173867	175826	174886	196274	grade 0 events	31164	13464	14337	17381	10246	10482
rejected events	132153	131360	146615	144965	151389	100913		17%	8%	8%	9%	5%	5%
rejected %	73%	82%	84%	82%	86%	51%	grade 1 events	267	136	130	160	96	304
								0%	0%	0%	0%	0%	0%
							grade 2 events	7727	5249	5381	5218	4929	20913
								4%	3%	3%	2%	2%	10%
							grade 3 events	2740	2145	1998	2321	2040	8643
								1%	1%	1%	1%	1%	4%
							grade 4 events	2721	2171	2024	2191	1983	8370
								1%	1%	1%	1%	1%	4%
							grade 5 events	6648	7018	6216	7689	7685	20721
								3%	4%	3%	4%	4%	10%
							grade 6 events	4272	4319	3517	3755	4302	46968
								2%	2%	2%	2%	2%	23%
							grade 7 events	125228	124195	140264	137111	143605	79873
								69%	78%	80%	77%	82%	40%

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	84.628502	84.69219044019914	CCD I2 on	Y	Y
[deg] Pointing Dec	-69.091155	-69.10684410944083	CCD I3 on	Y	Y
[deg] Pointing Roll	294.955012	295.2231916067972	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)	540303300.184000	540302048.05413	CCD S5 on	N	N
Observation start date	2015-02-14T12:13:53	2015-02-14T11:54:08	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	540338379.184000	540338616.46867	On-chip summing requested	N	N
Observation end date	2015-02-14T21:58:32	2015-02-14T22:03:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





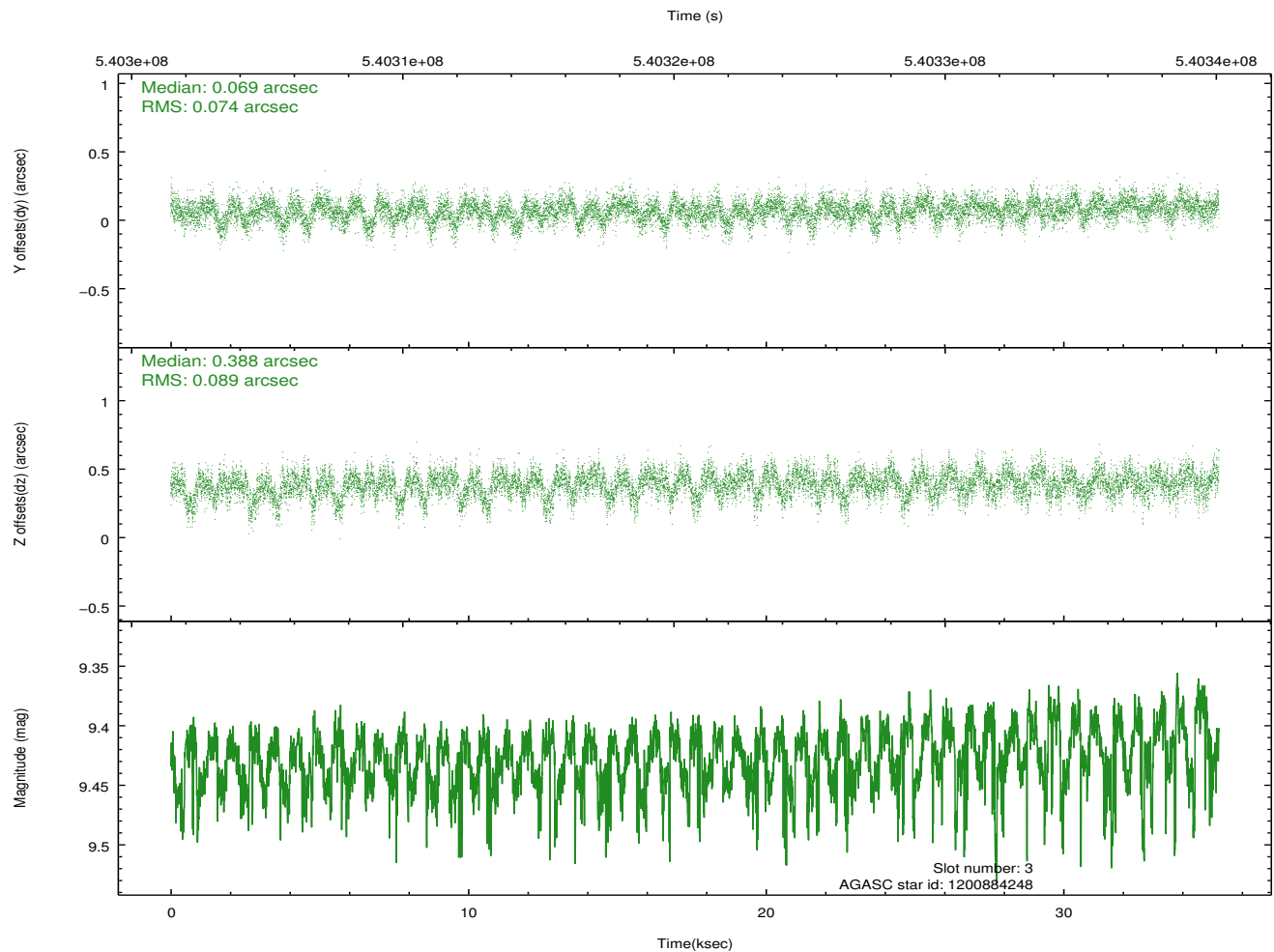
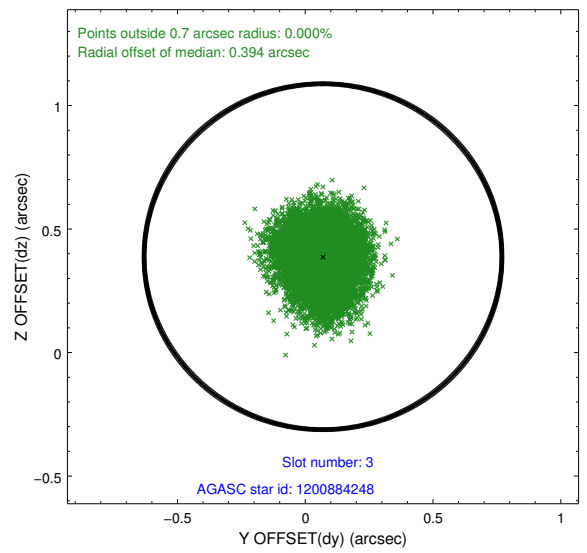
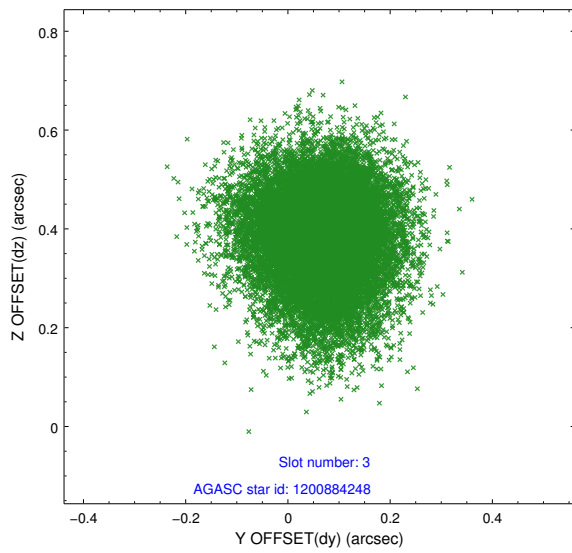
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	8592	0.062	0.017	0.028	0.071	0.000000	0.000000	922.71	-842.94
1	FID		ACIS-I-5	7.24	8592	-0.292	0.049	0.029	0.040	0.000000	0.000000	-1825.77	1054.51
2	FID		ACIS-I-6	7.25	8592	0.143	0.000	0.047	0.073	0.000000	0.000000	388.22	1699.08
3	GUIDE	used	1200884248	9.43	17181	0.069	0.388	0.123	0.202	83.880915	-68.565170	-2126.29	-94.42
4	GUIDE	used	1200885760	9.44	17172	0.149	0.418	0.147	0.245	83.723637	-68.777667	-1512.45	-596.06
5	GUIDE	used	1201018384	9.05	17174	-0.059	-0.264	0.118	0.190	85.801362	-68.593260	-961.81	2147.67
6	GUIDE	used	1201020040	8.57	17177	-0.056	-0.137	0.100	0.157	85.379163	-68.879396	-275.16	1202.13
7	GUIDE	used	1201016584	9.43	17169	-0.097	-0.407	0.113	0.190	85.677603	-68.415933	-1607.34	2279.93

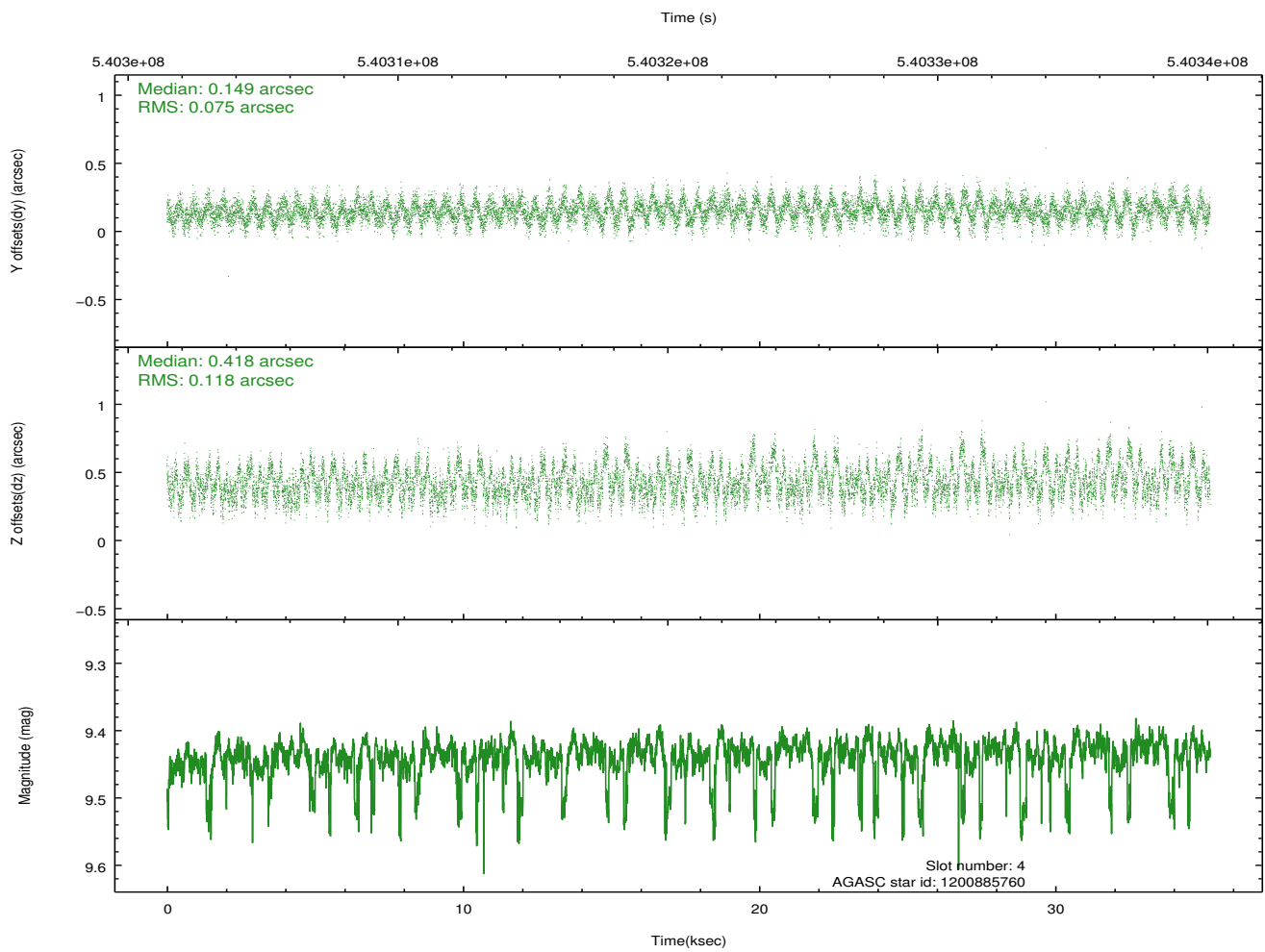
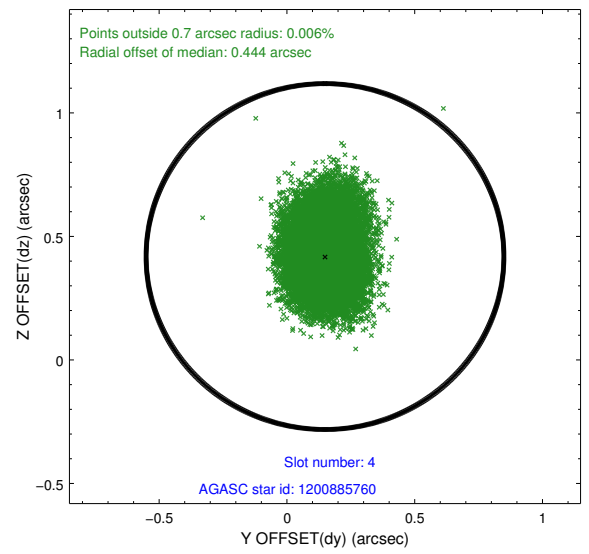
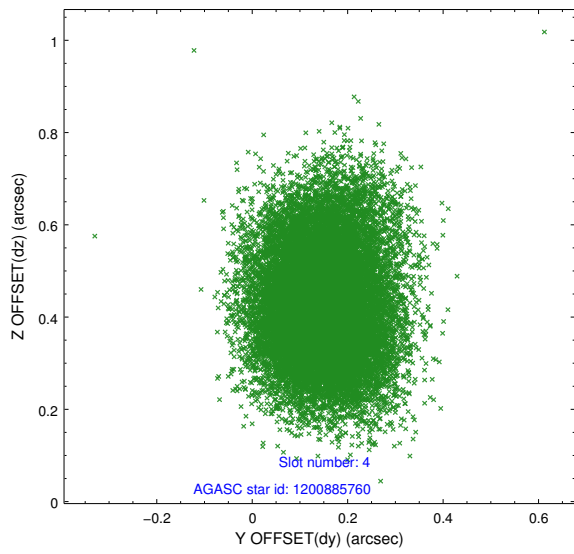
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2.4 Star Slots

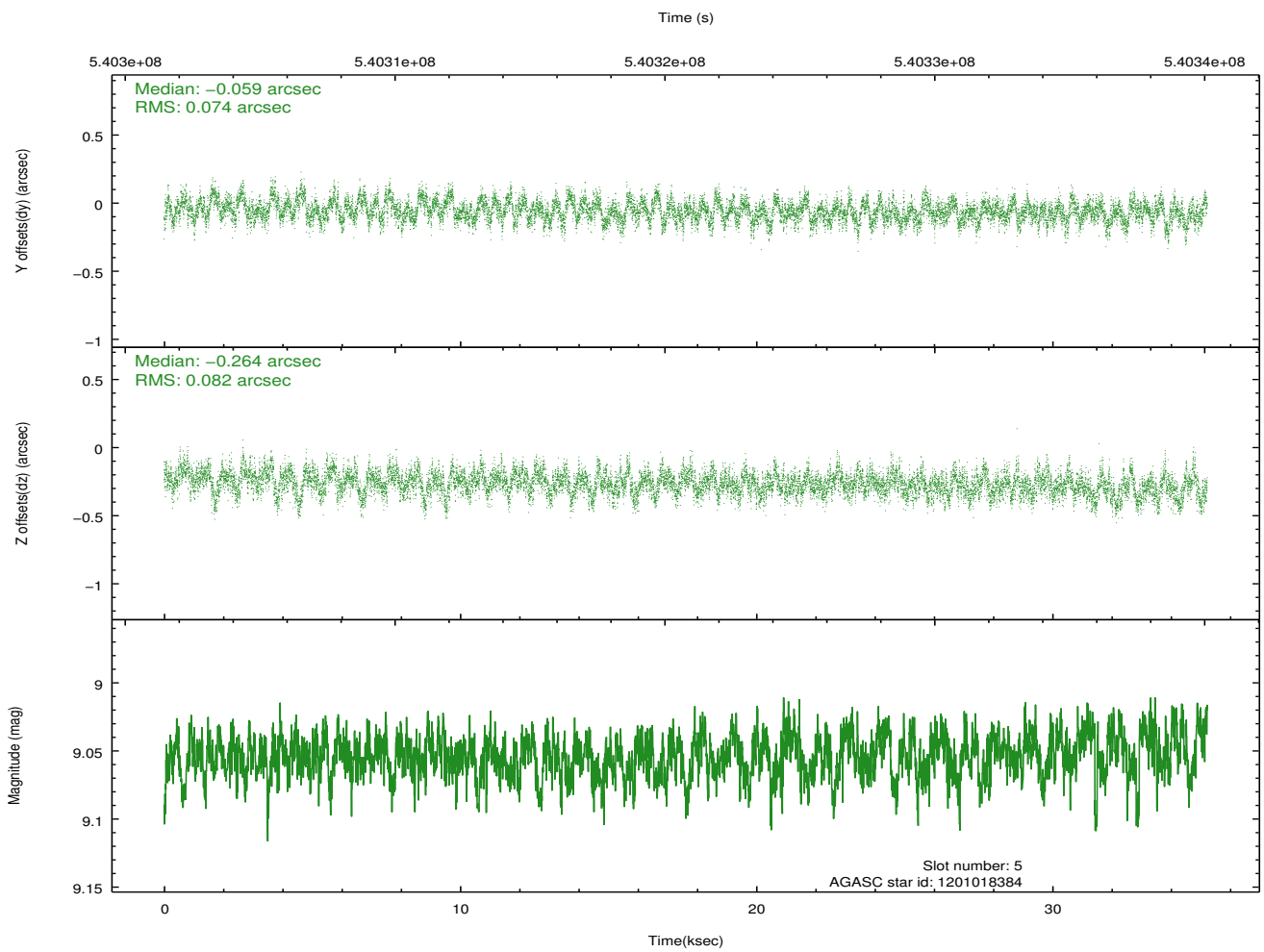
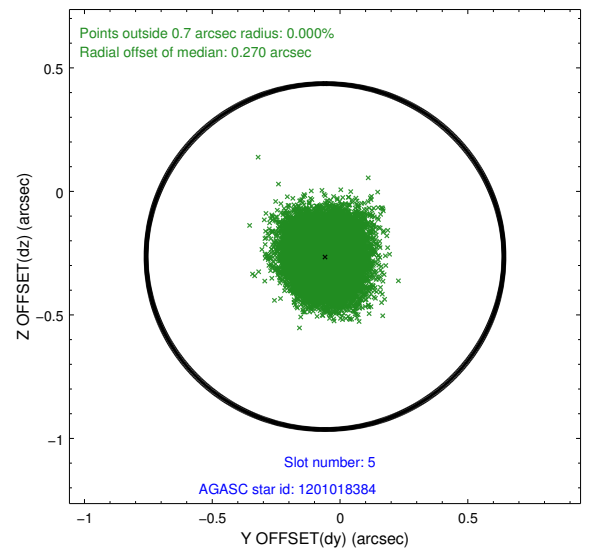
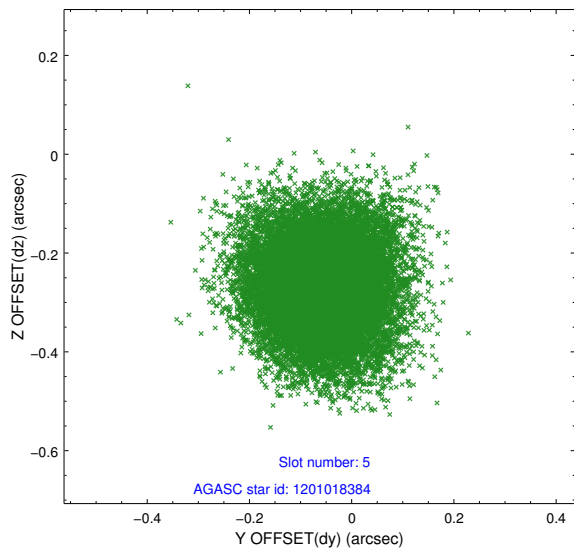
2.4.1 Slot 3



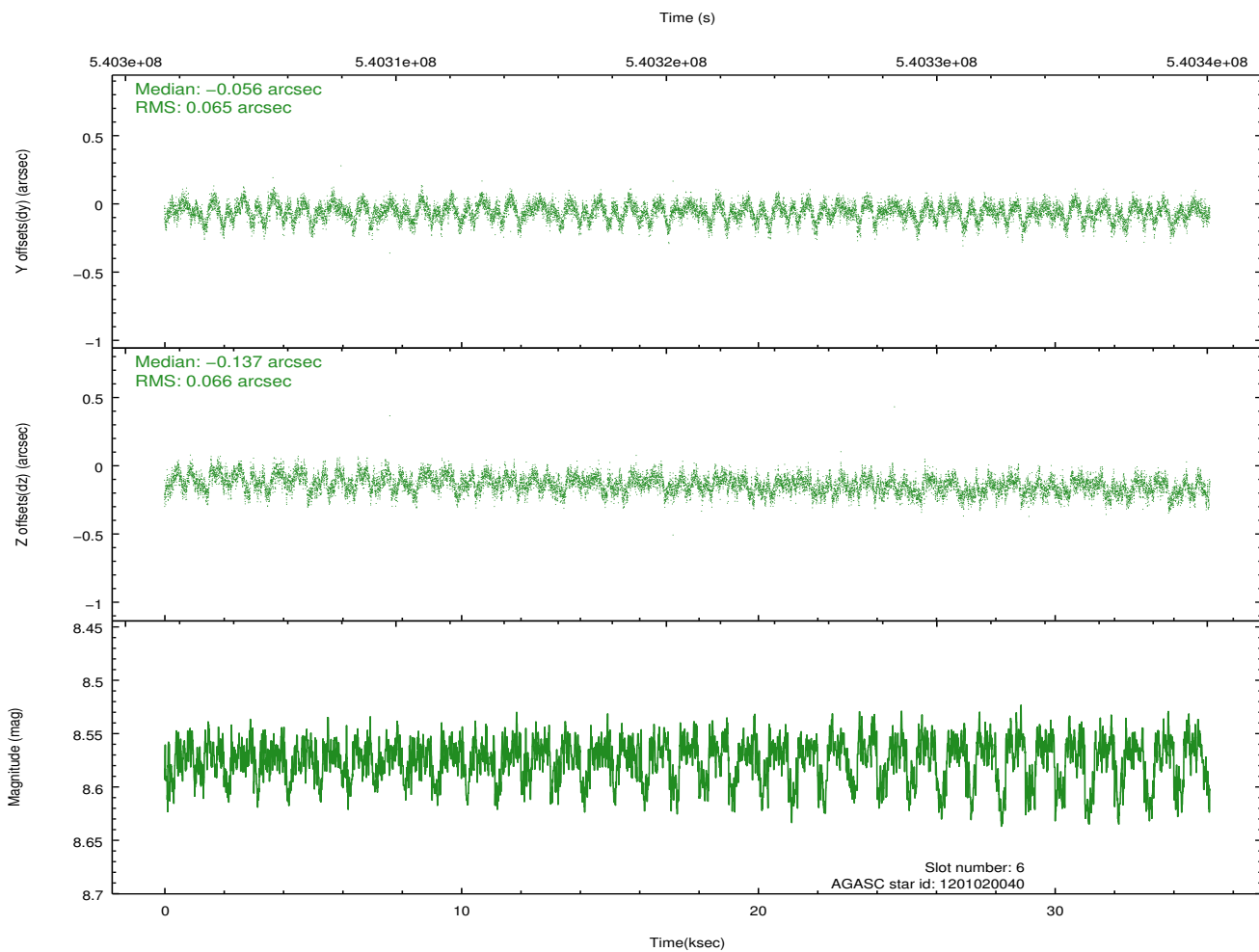
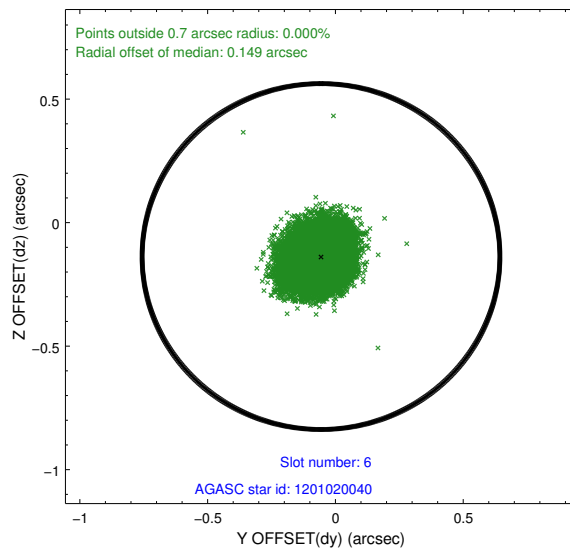
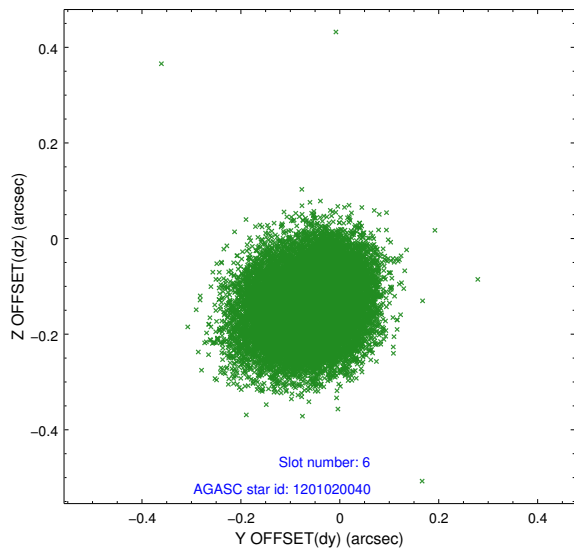
2.4.2 Slot 4



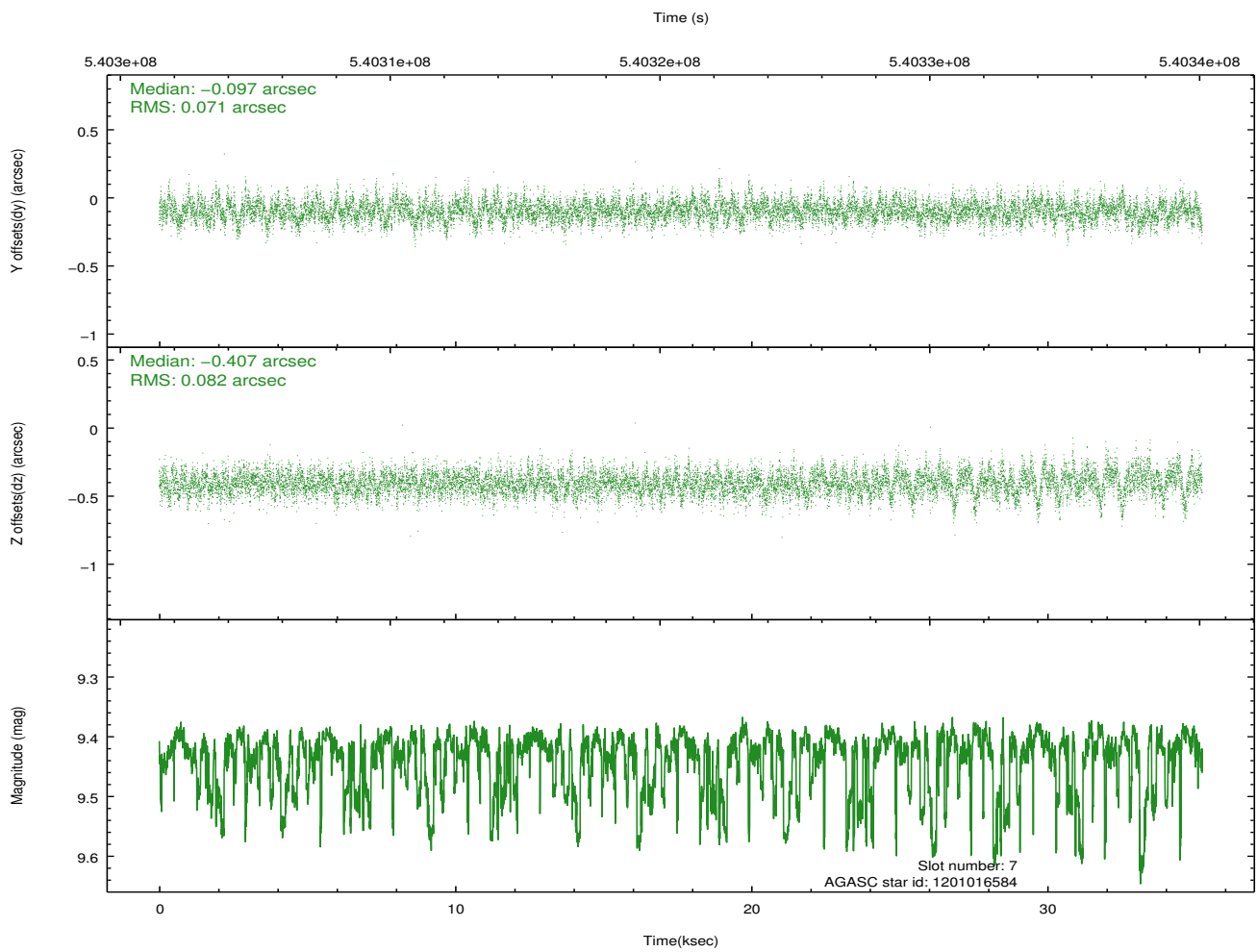
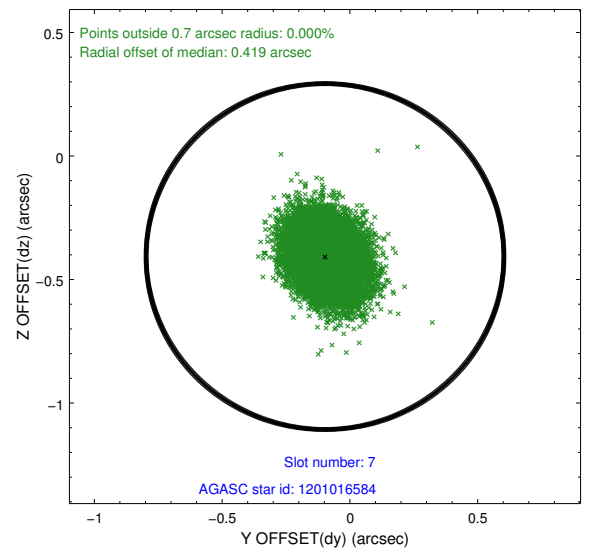
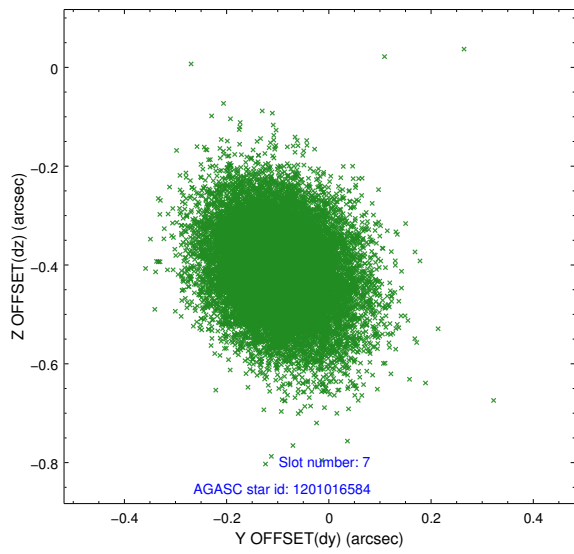
2.4.3 Slot 5



2.4.4 Slot 6

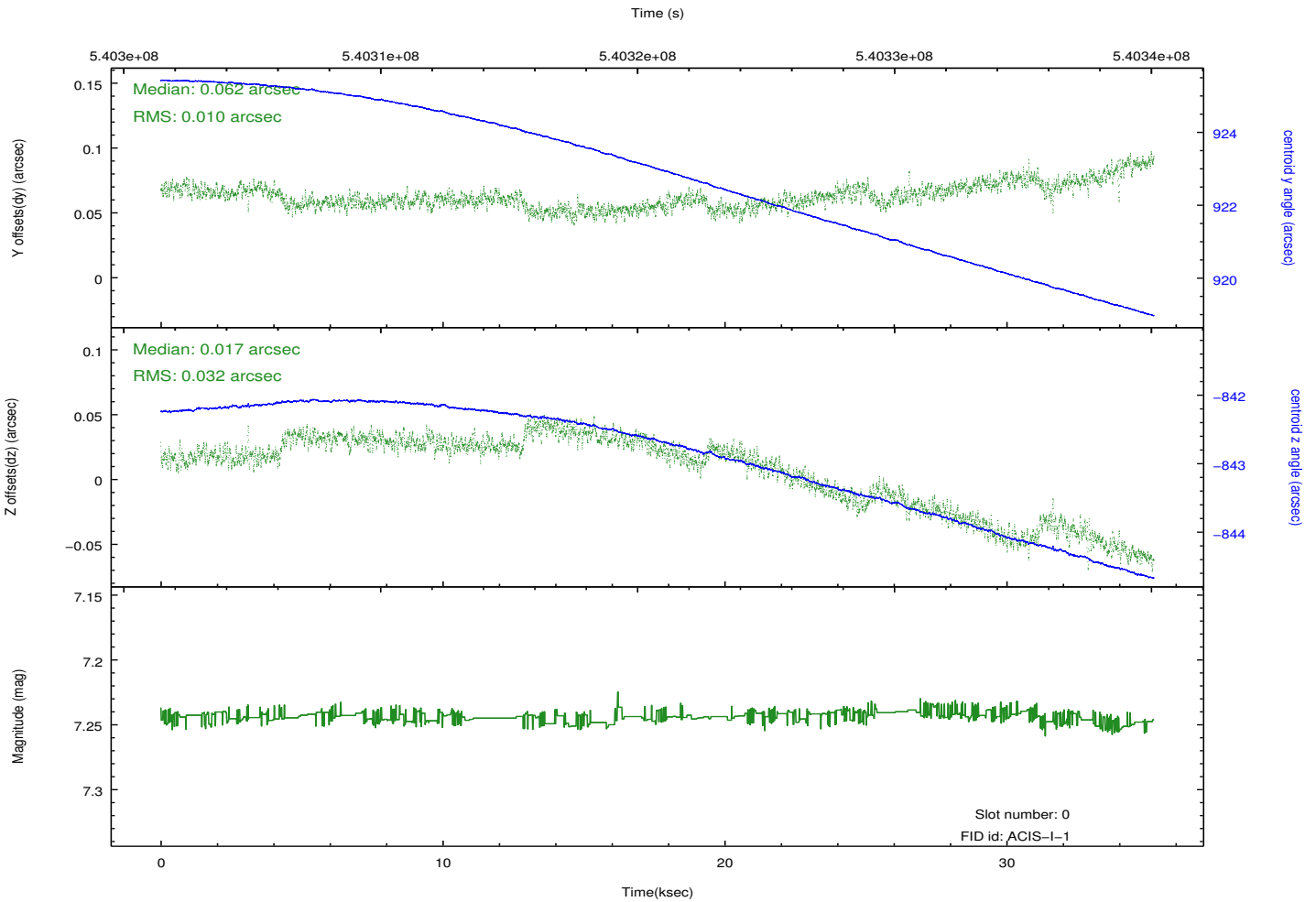
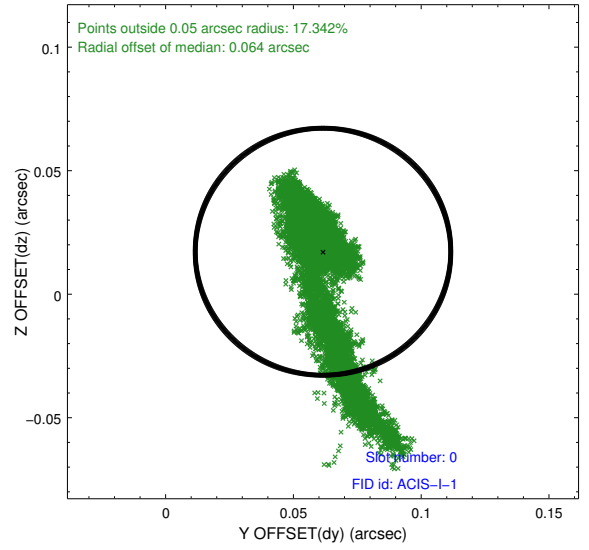
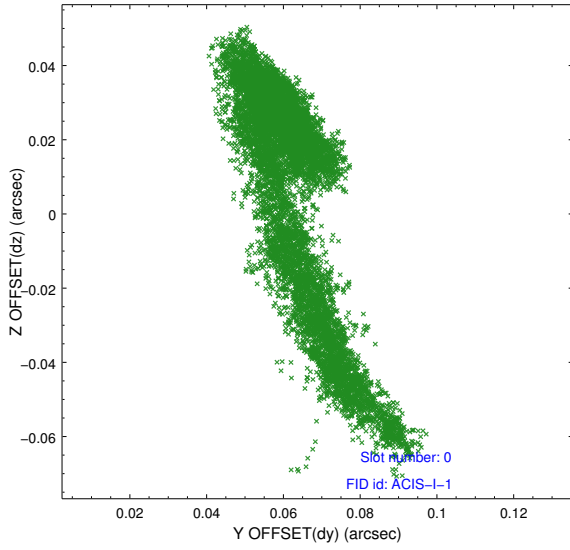


2.4.5 Slot 7

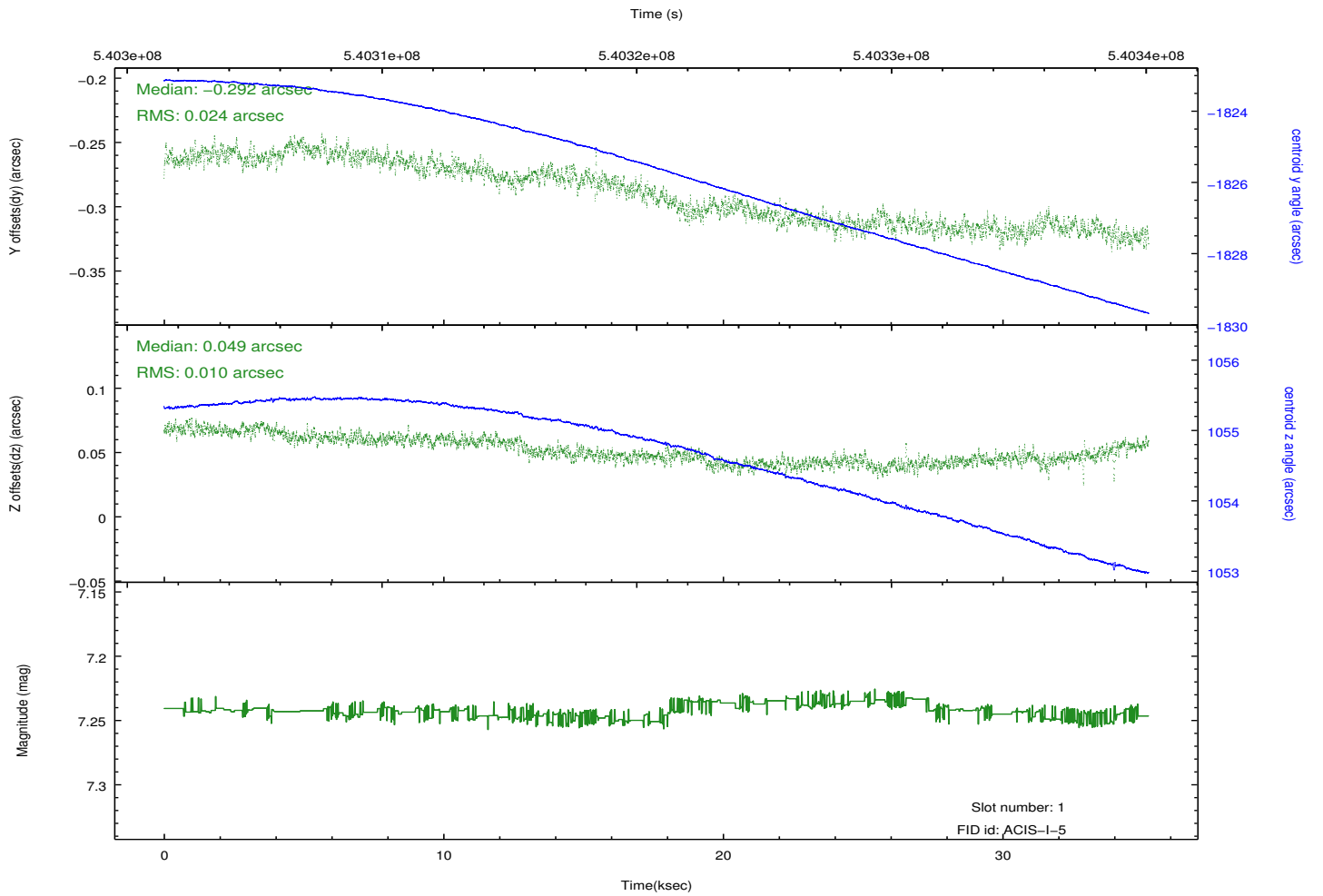
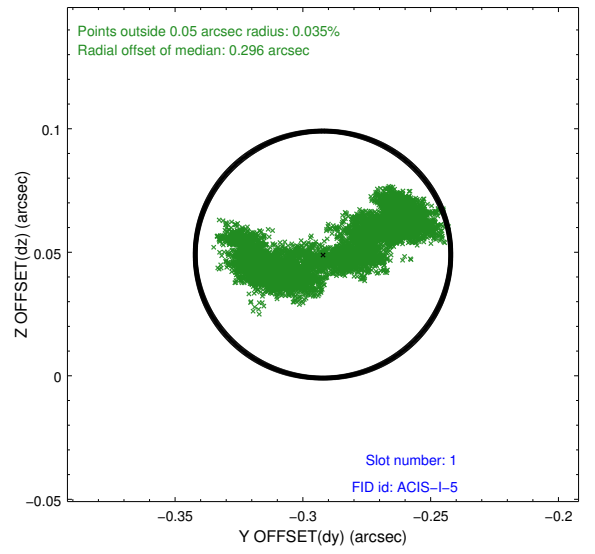
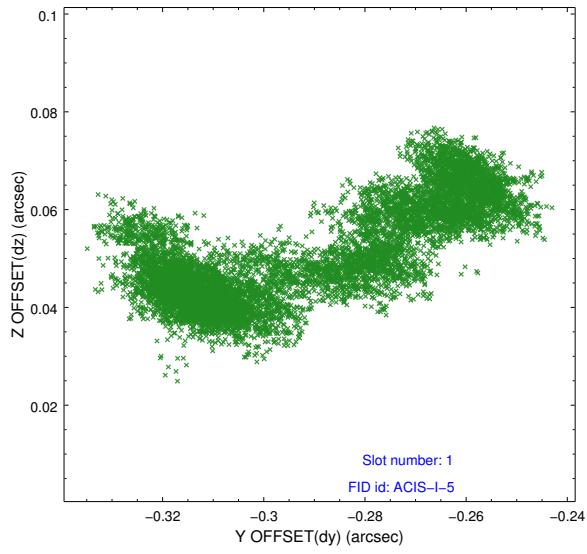


2.5 FID Slots

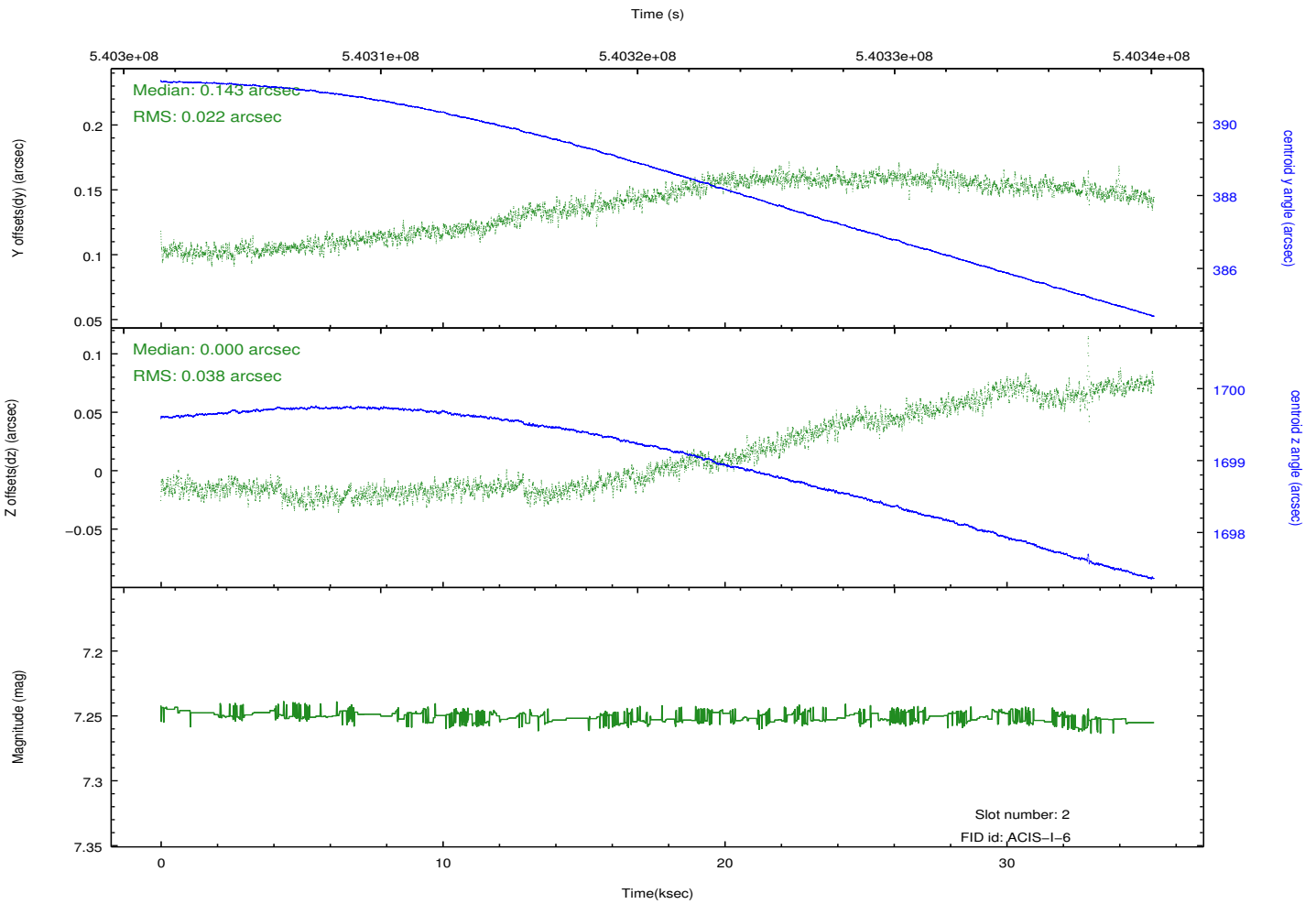
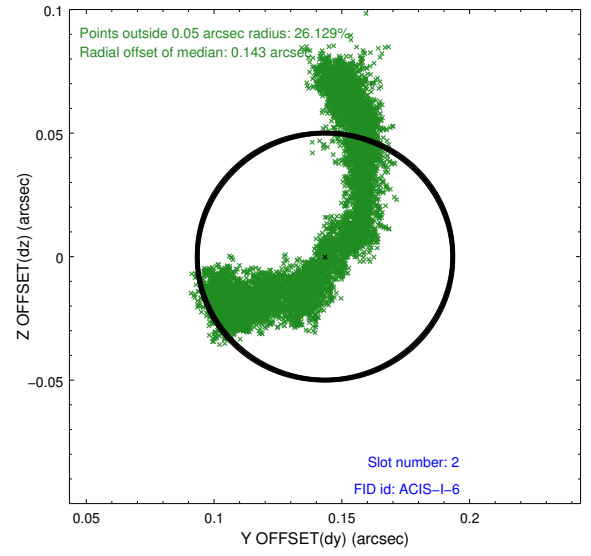
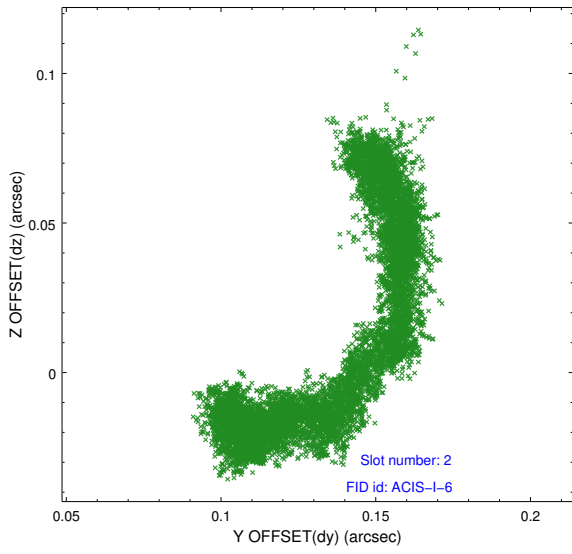
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.02.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.042652269721

A.2 Comments