

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 18729 - L2 Version 1
Chandra X-Ray Center

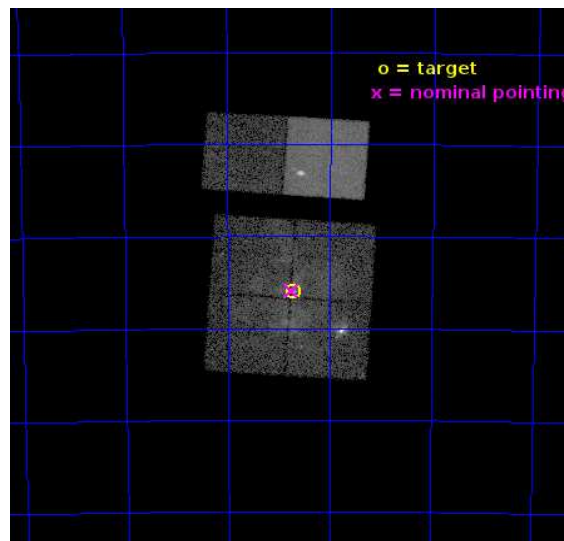
L2 Processing Date : Dec 22 2015

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1 Front

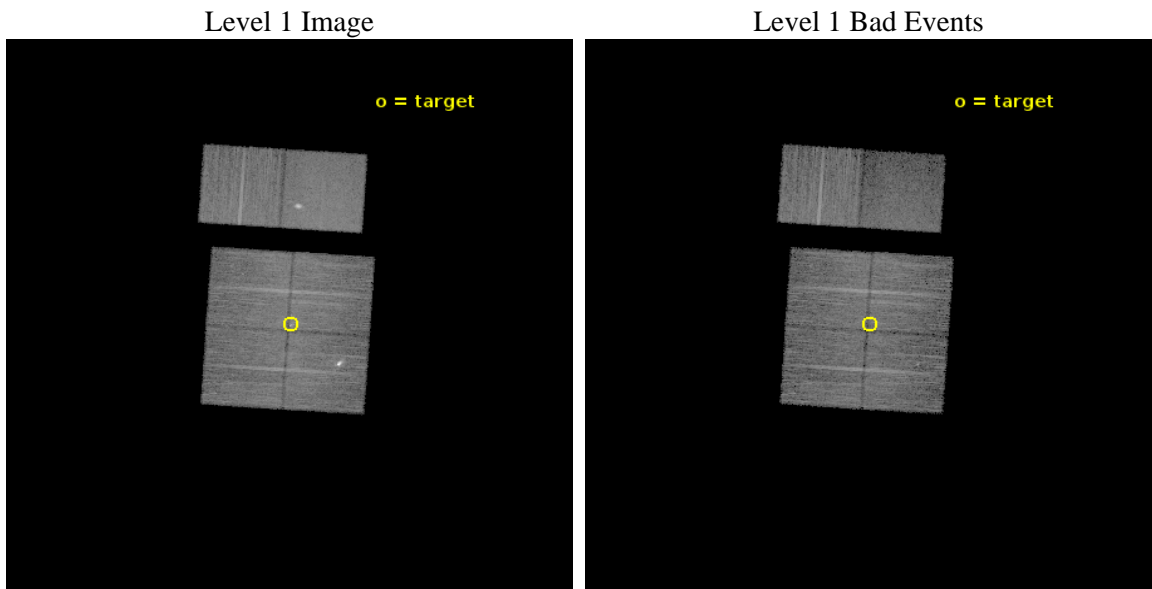
seq_num	901116	Sequence number
obs_id	18729	Observation id
title	The Tarantula -- Revealed by X-rays (T-ReX): A Definitive Chandra Investigation of 30 Doradus	Proposal title
observer	Dr. Leisa Townsley	Principal investigator
object	30 Doradus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	84.676667	Observer's specified target RA [deg]
dec_targ	-69.100806	Observer's specified target Dec [deg]
ra_nom	84.688261765587	Nominal RA [deg]
dec_nom	-69.098936559096	Nominal Dec [deg]
roll_nom	3.8195417346845	Nominal Roll [deg]
revision	1	Processing version of data
ontime	16956.759242415	Sum of GTIs [s]
livetime	16742.042546753	Livetime [s]
ontime0	16956.759262204	Sum of GTIs [s]
ontime1	16960.000252724	Sum of GTIs [s]
ontime2	16956.759252429	Sum of GTIs [s]
ontime3	16956.759242415	Sum of GTIs [s]
ontime6	16956.759242535	Sum of GTIs [s]
ontime7	16960.000252724	Sum of GTIs [s]
l2events	116621	Number of level 2 events



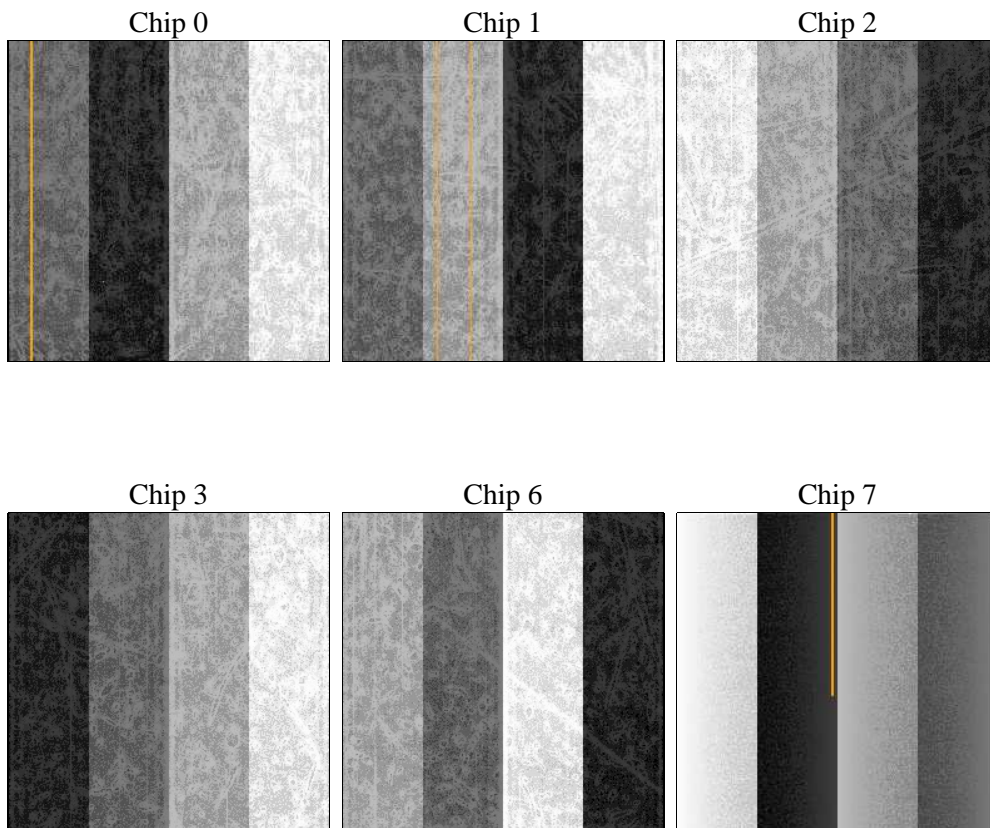
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	17000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	16956.759242415	Sum of GTIs [s]
caldbver	4.7.0	 	ontime0	16956.759262204	Sum of GTIs [s]
date	2015-12-22T20:13:44	Date and time of file creation	ontime1	16960.000252724	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	16956.759252429	Sum of GTIs [s]
			ontime3	16956.759242415	Sum of GTIs [s]
			ontime6	16956.759242535	Sum of GTIs [s]
			ontime7	16960.000252724	Sum of GTIs [s]
			l1events	555614	Number of level 1 events

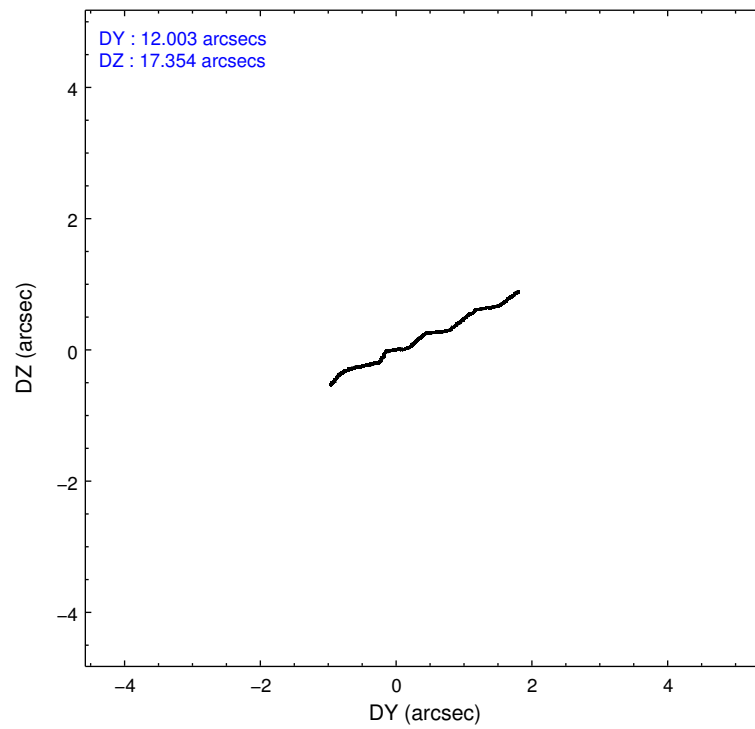
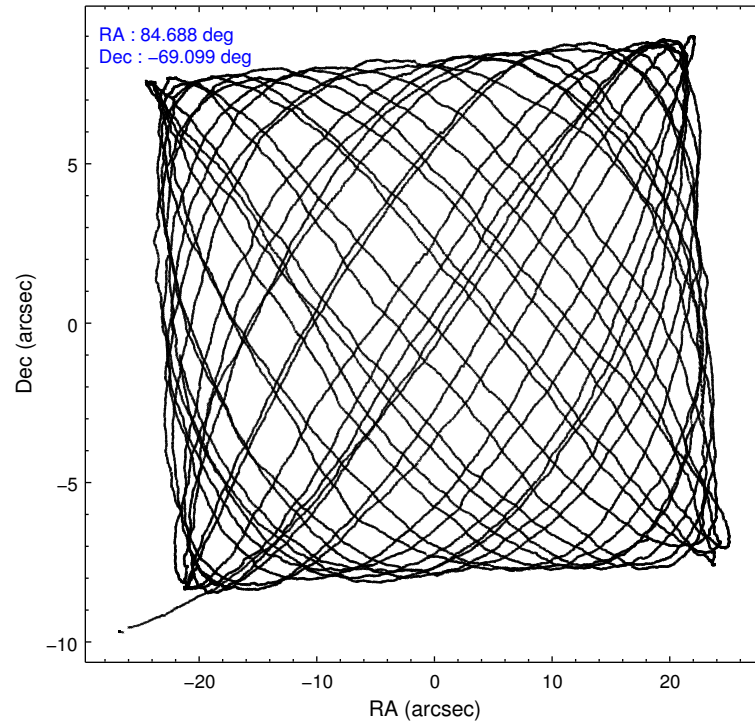
2.1.4 Events

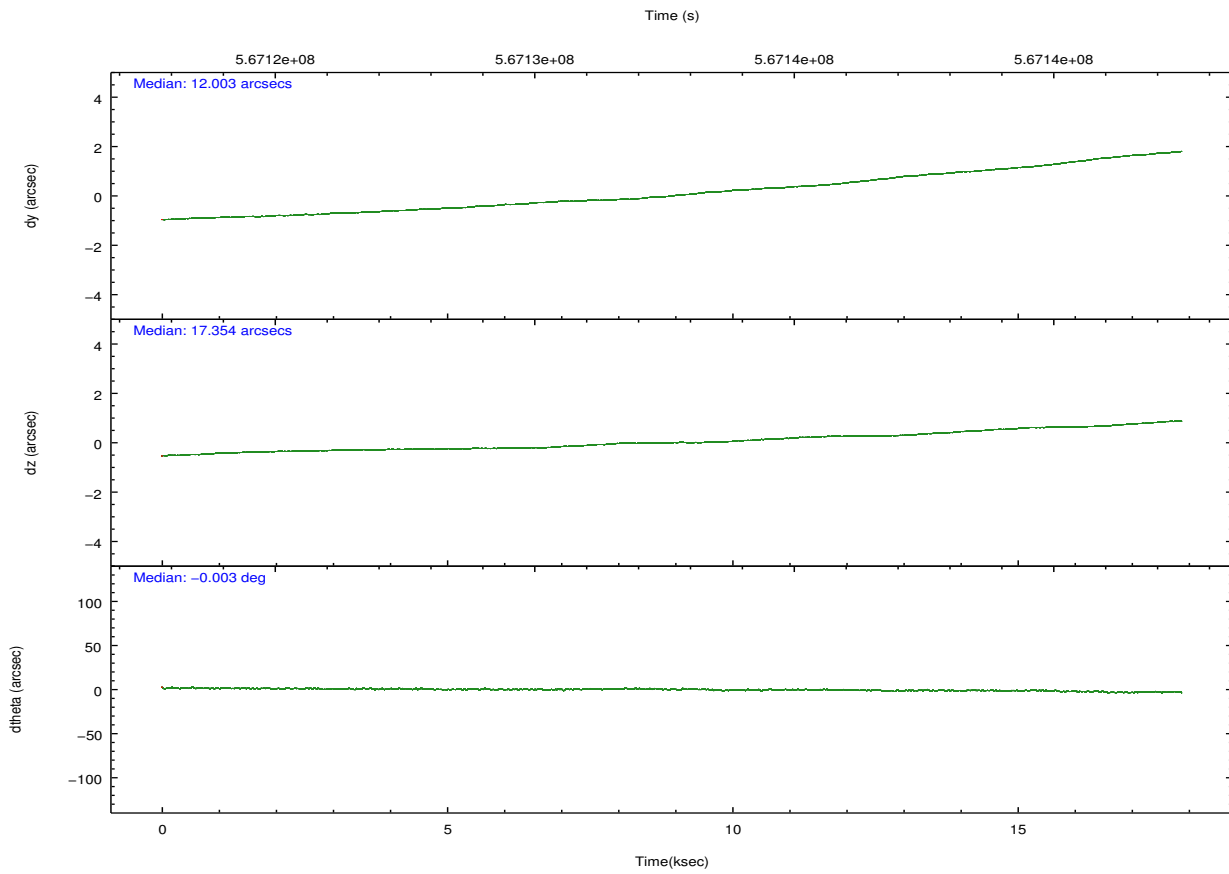
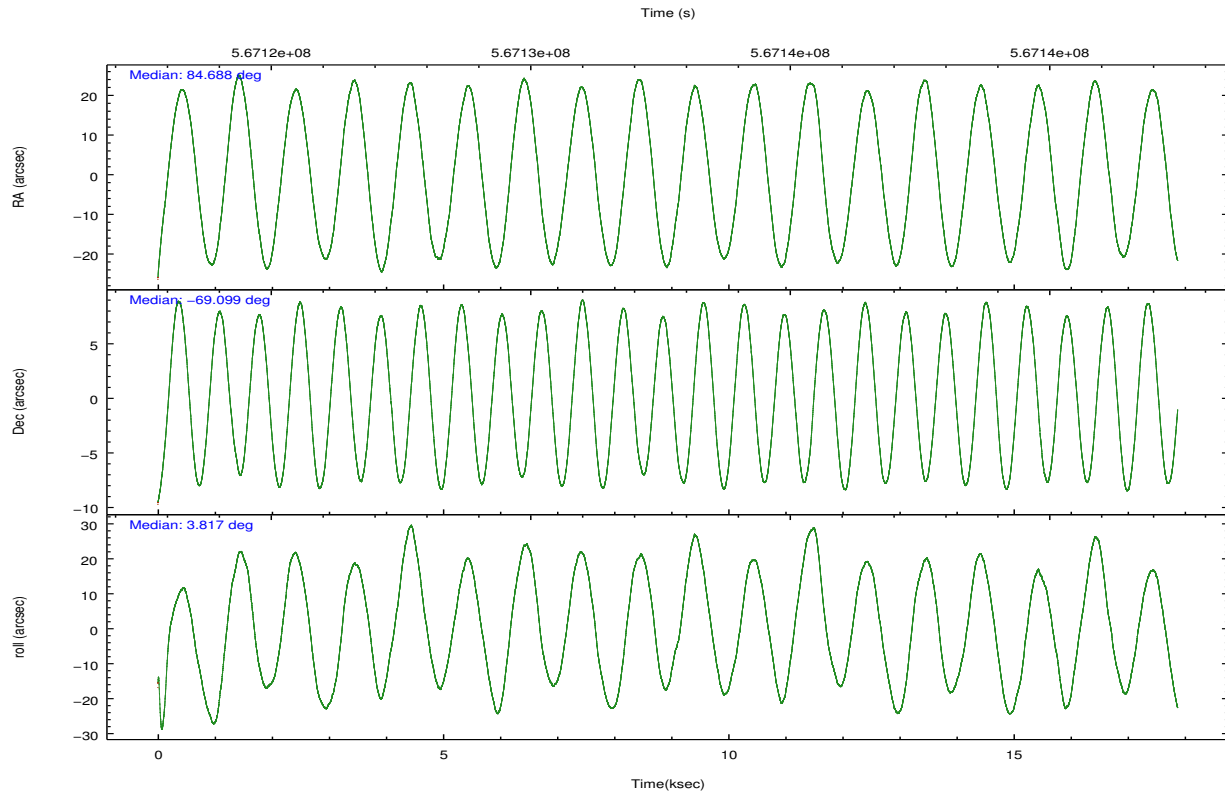
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	83333	92908	90599	91983	91834	104957	grade 0 events	6043	14903	6721	8202	3917	6087
rejected events	70328	68844	77352	76963	81273	52751		7%	16%	7%	8%	4%	5%
rejected %	84%	74%	85%	83%	88%	50%	grade 1 events	47	109	71	70	56	142
								0%	0%	0%	0%	0%	0%
							grade 2 events	2849	3770	2714	2545	2401	11614
								3%	4%	2%	2%	2%	11%
							grade 3 events	1097	1451	1028	1120	1050	4614
								1%	1%	1%	1%	1%	4%
							grade 4 events	1055	1414	1023	1168	1002	4538
								1%	1%	1%	1%	1%	4%
							grade 5 events	3311	3610	3042	3855	3779	10483
								3%	3%	3%	4%	4%	9%
							grade 6 events	1965	2535	1765	1989	2192	25369
								2%	2%	1%	2%	2%	24%
							grade 7 events	66966	65116	74235	73034	77437	42110
								80%	70%	81%	79%	84%	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	84.624056	84.68826176558669	CCD I2 on	Y	Y
[deg] Pointing Dec	-69.114336	-69.09893655909556	CCD I3 on	Y	Y
[deg] Pointing Roll	3.550853	3.819541734684466	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)	567124577.184000	567123030.60297	CCD S5 on	N	N
Observation start date	2015-12-21T22:35:09	2015-12-21T22:10:30	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	567141577.184000	567142481.0040801	On-chip summing requested	N	N
Observation end date	2015-12-22T03:18:29	2015-12-22T03:34:41	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





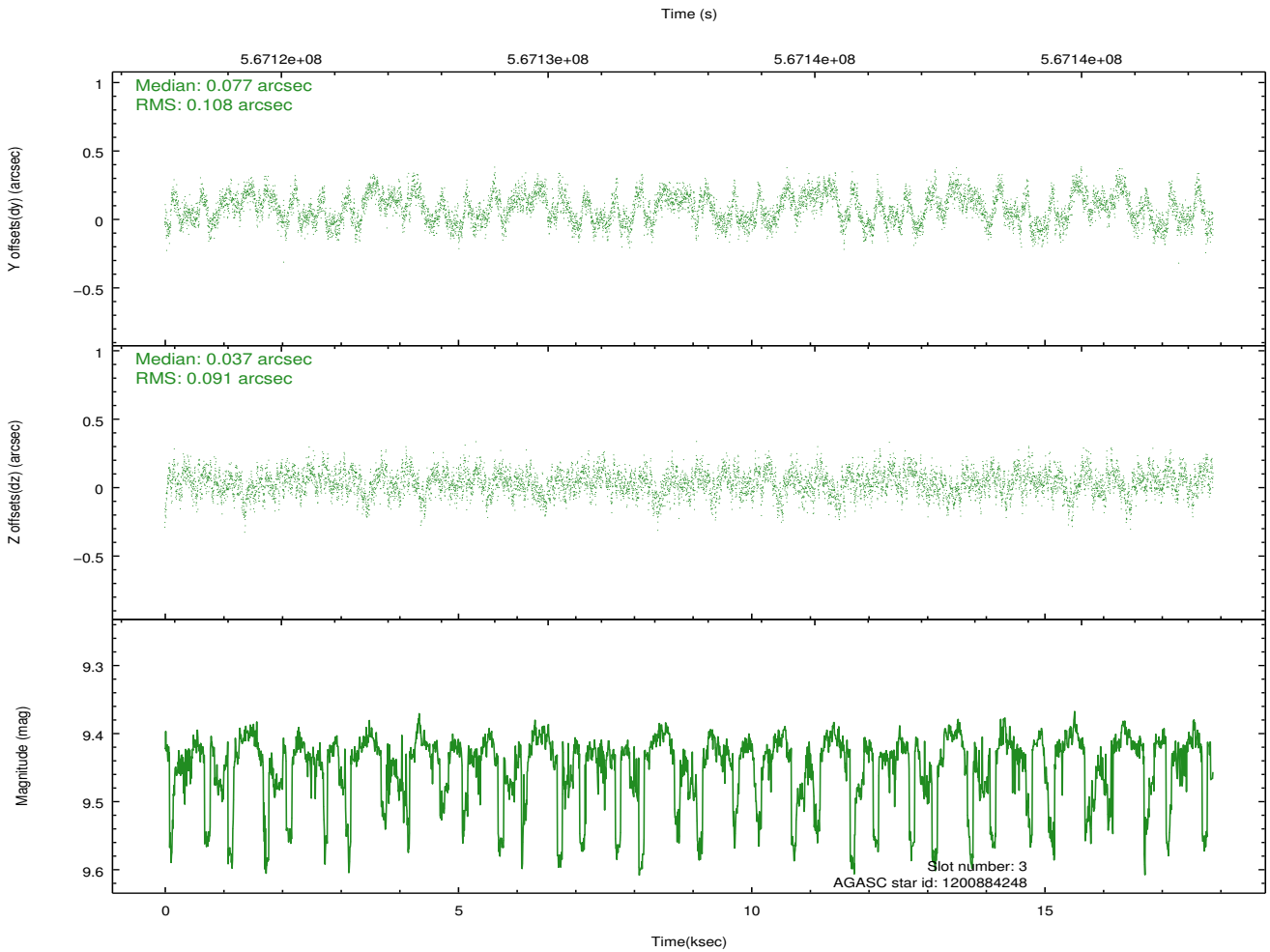
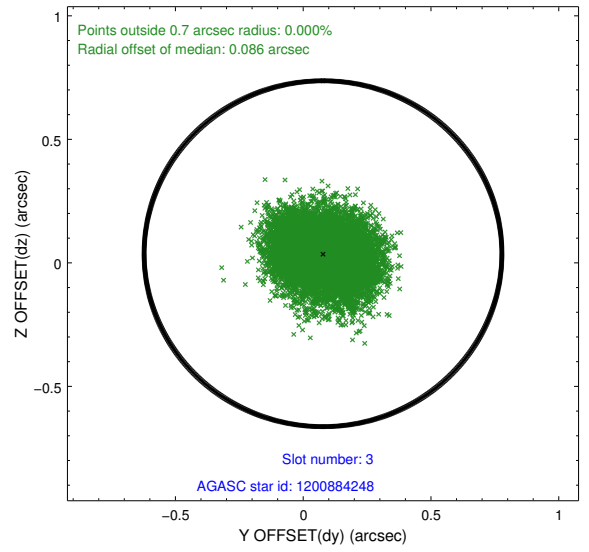
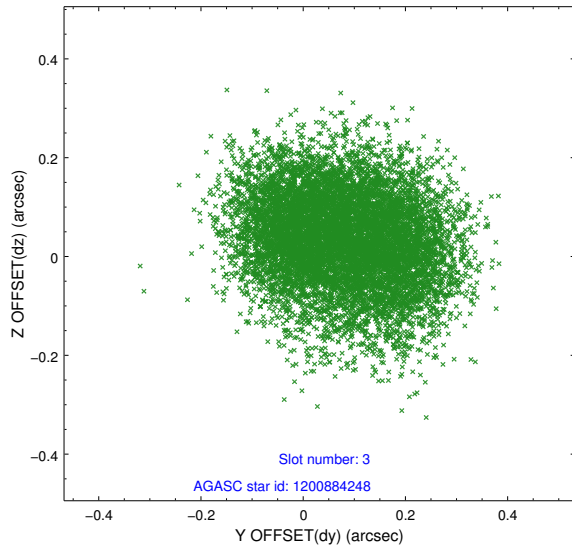
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	4360	0.092	-0.054	0.025	0.050	0.000000	0.000000	927.47	-841.12
1	FID		ACIS-I-5	7.25	4360	-0.294	0.070	0.009	0.017	0.000000	0.000000	-1820.93	1056.31
2	FID		ACIS-I-6	7.25	4359	0.109	0.051	0.022	0.040	0.000000	0.000000	392.74	1701.10
3	GUIDE	used	1200884248	9.43	8715	0.077	0.037	0.153	0.235	83.880915	-68.565170	-853.41	2028.33
4	GUIDE	used	1200885760	9.45	8708	0.254	0.093	0.114	0.185	83.723637	-68.777667	-1096.49	1273.99
5	GUIDE	used	1201018384	9.02	8711	-0.059	0.028	0.113	0.184	85.801362	-68.593260	1659.51	1762.19
6	GUIDE	used	1201020040	8.57	8716	0.013	-0.034	0.096	0.158	85.379163	-68.879396	1029.66	777.84
7	GUIDE	used	1201016584	9.41	8703	-0.295	-0.109	0.140	0.218	85.677603	-68.415933	1547.15	2411.30

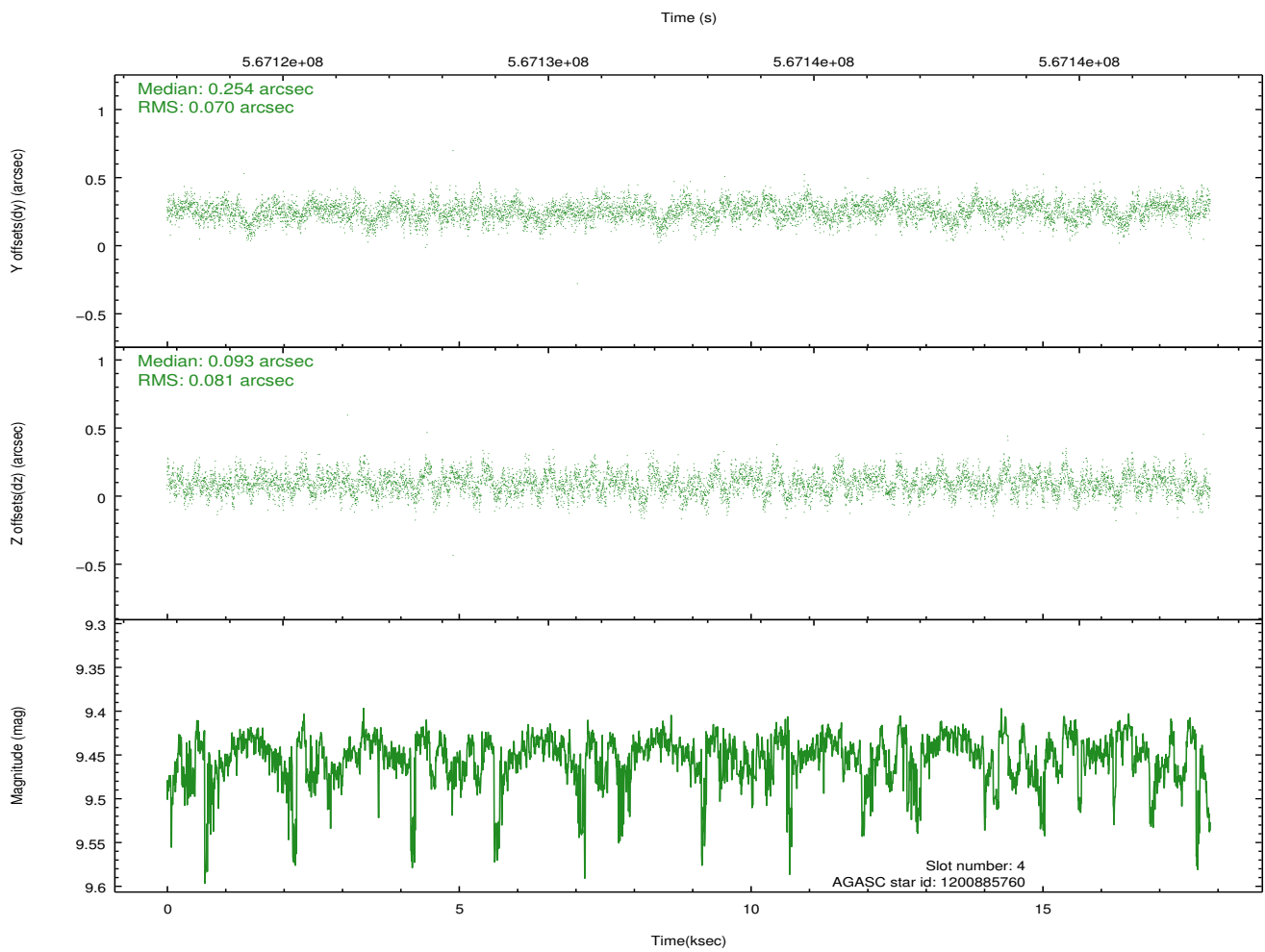
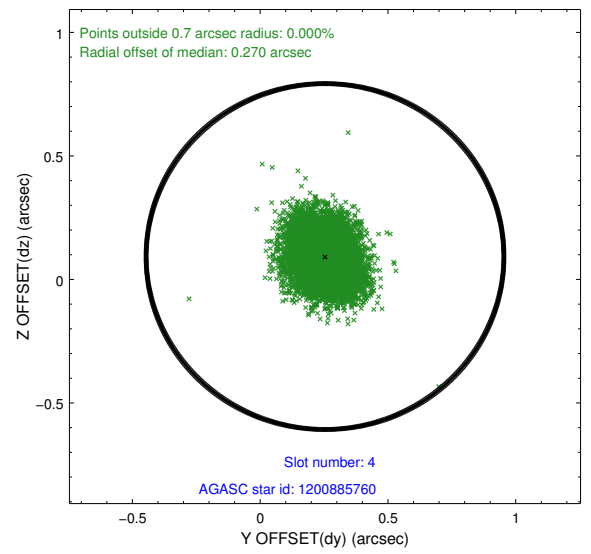
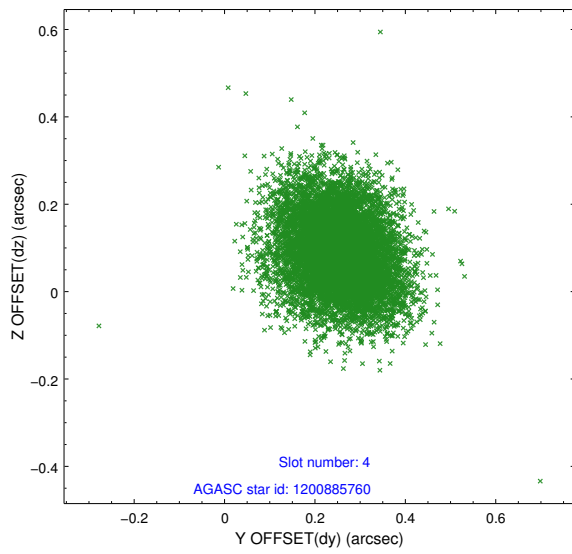
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2.4 Star Slots

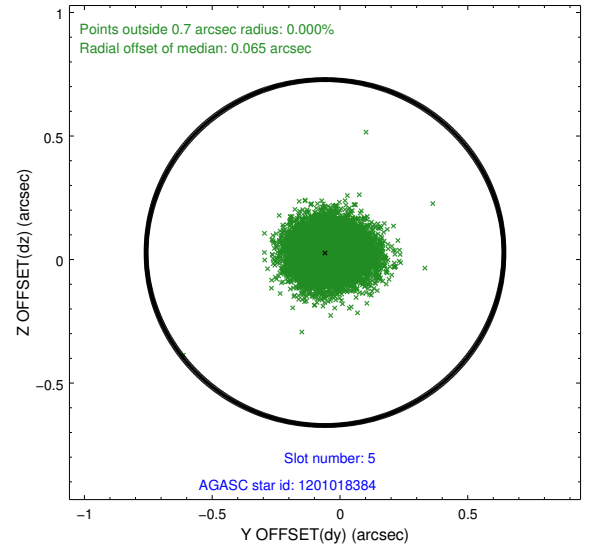
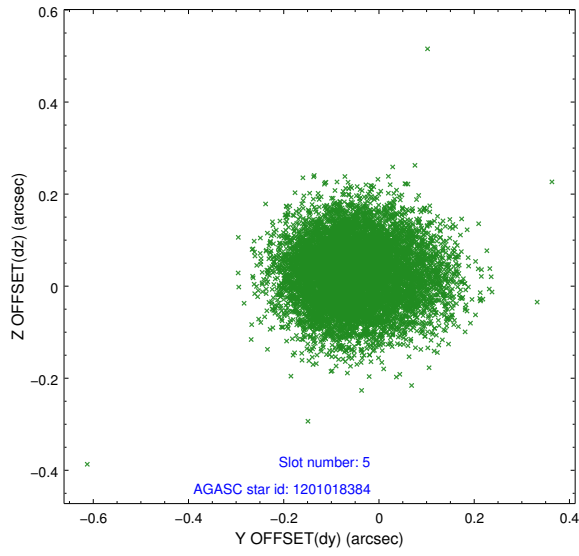
2.4.1 Slot 3



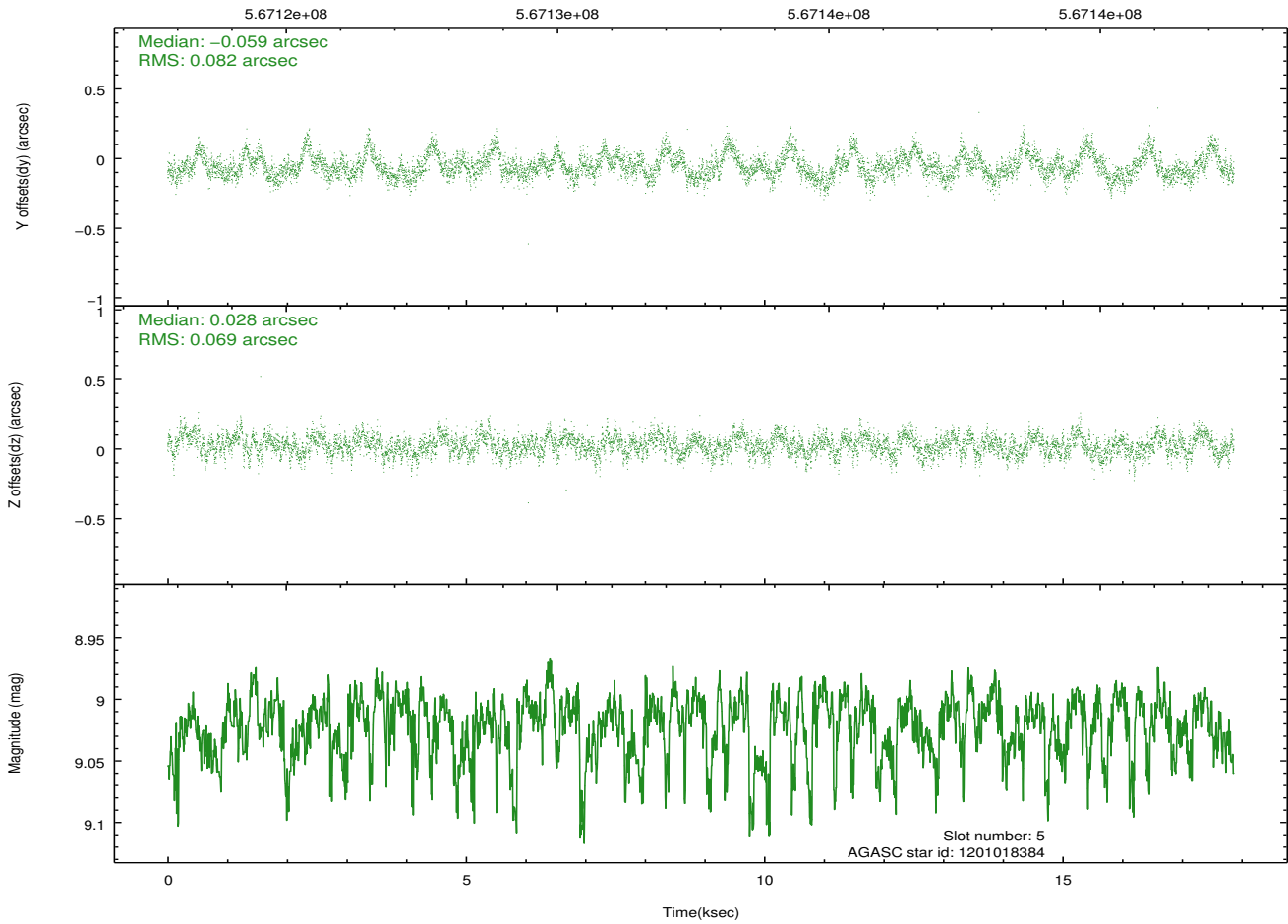
2.4.2 Slot 4



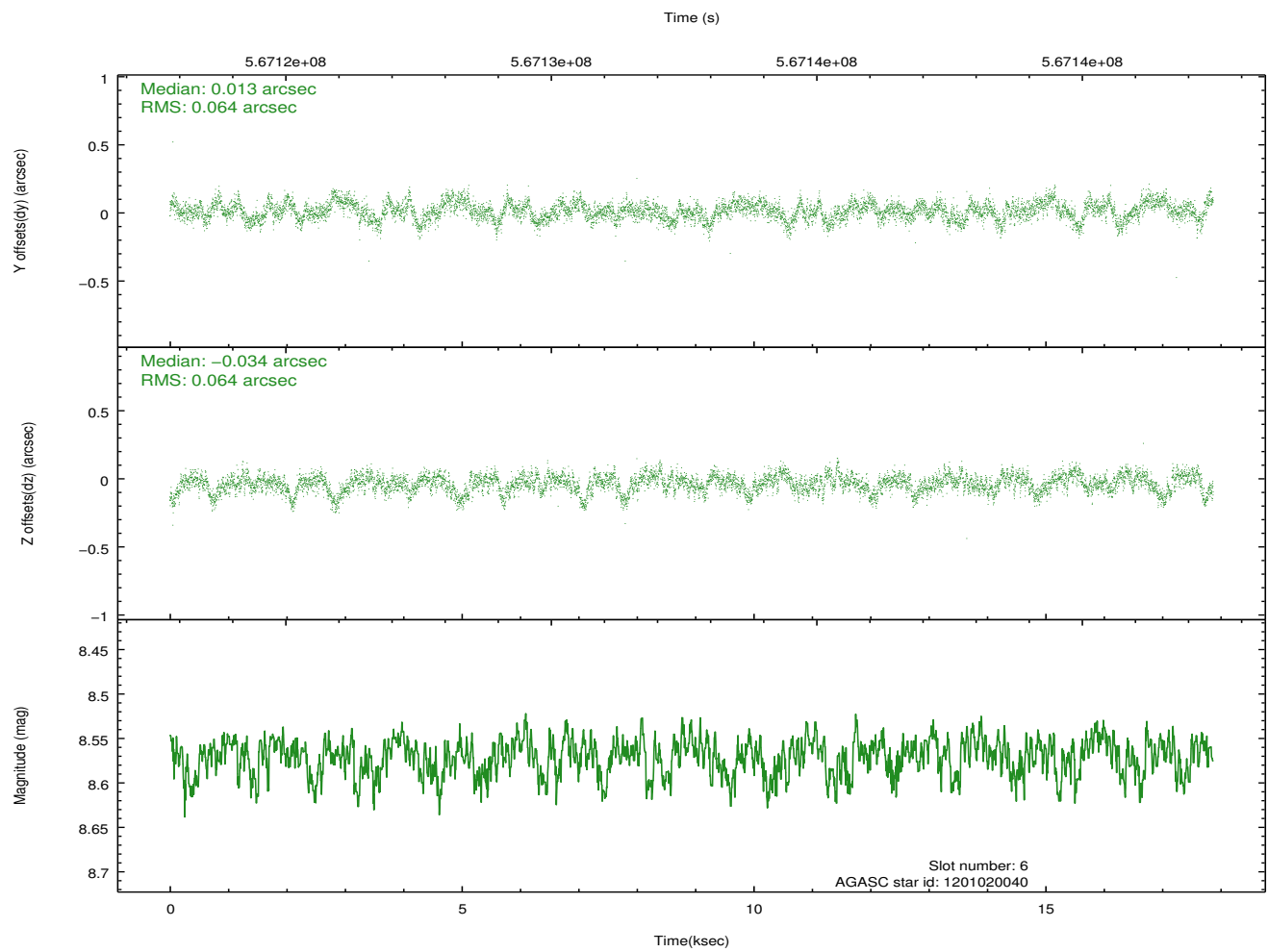
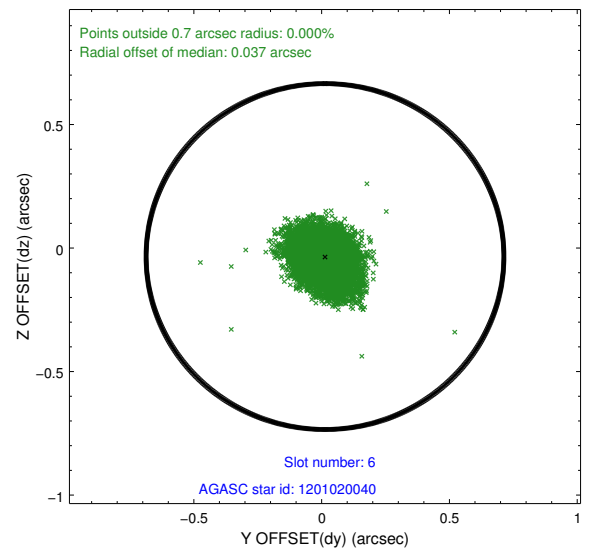
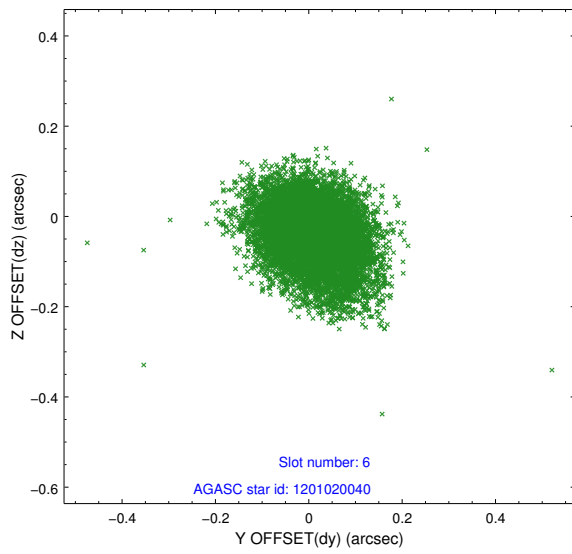
2.4.3 Slot 5



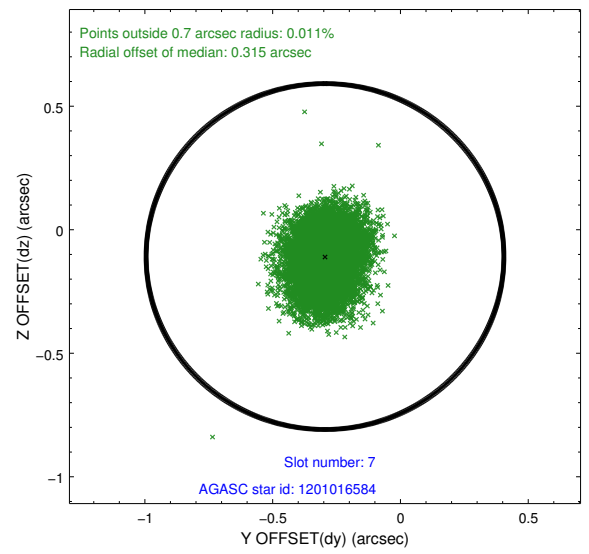
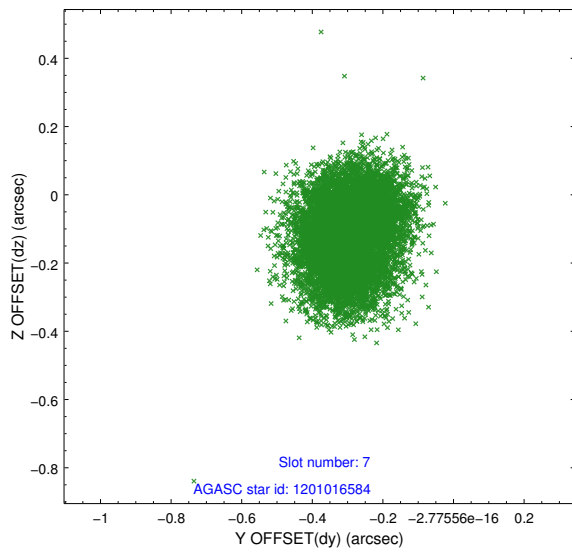
Time (s)



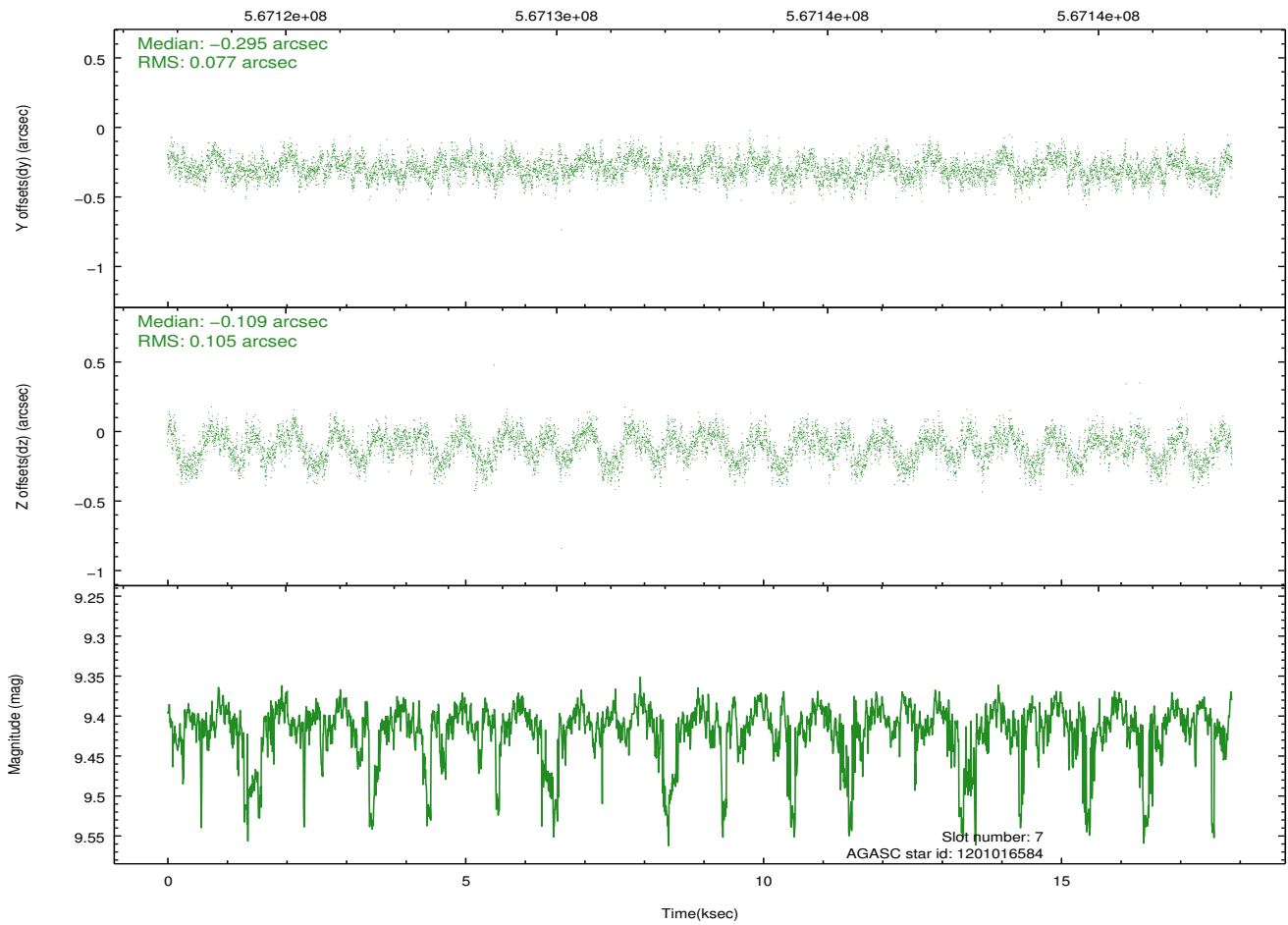
2.4.4 Slot 6



2.4.5 Slot 7

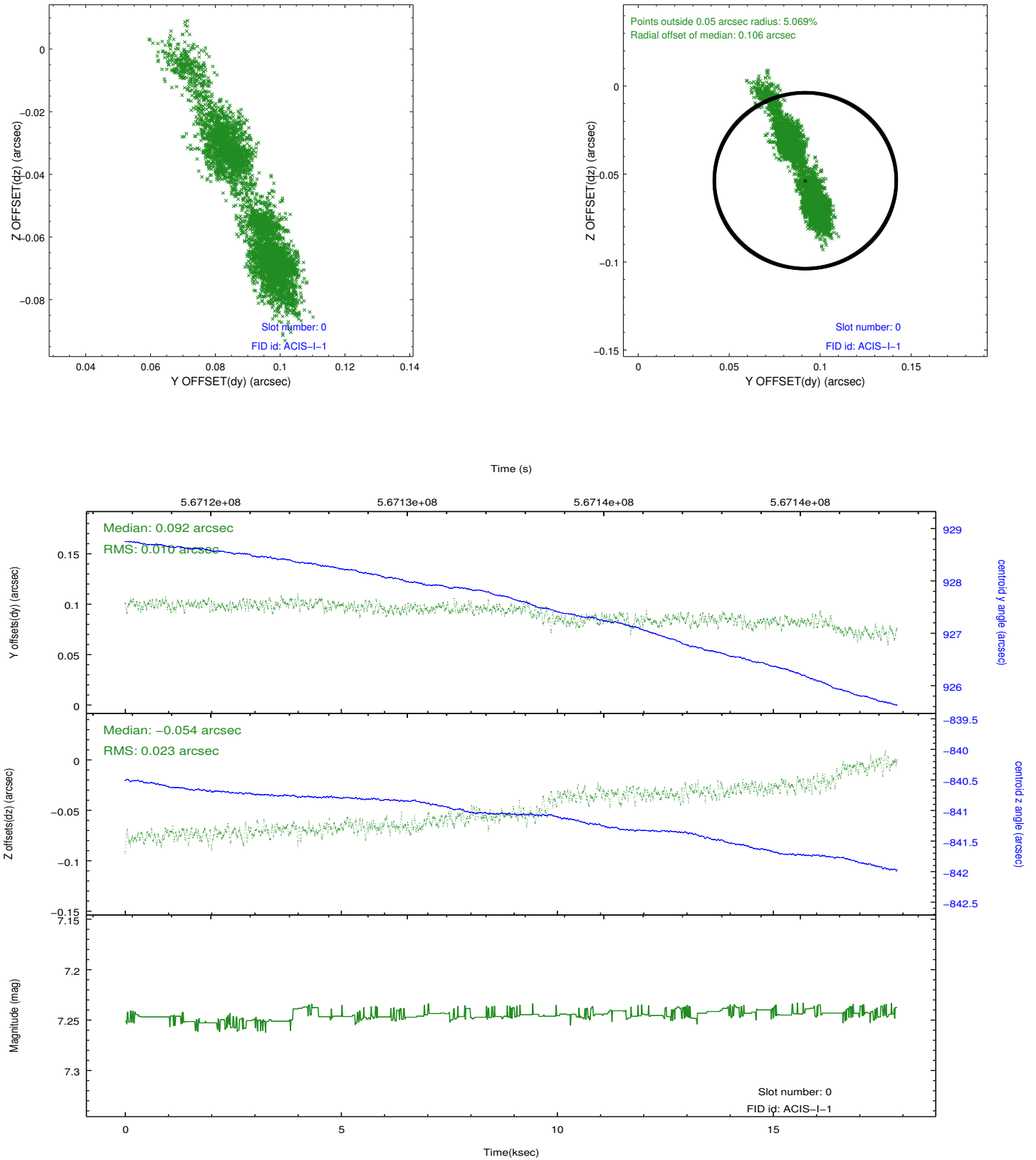


Time (s)

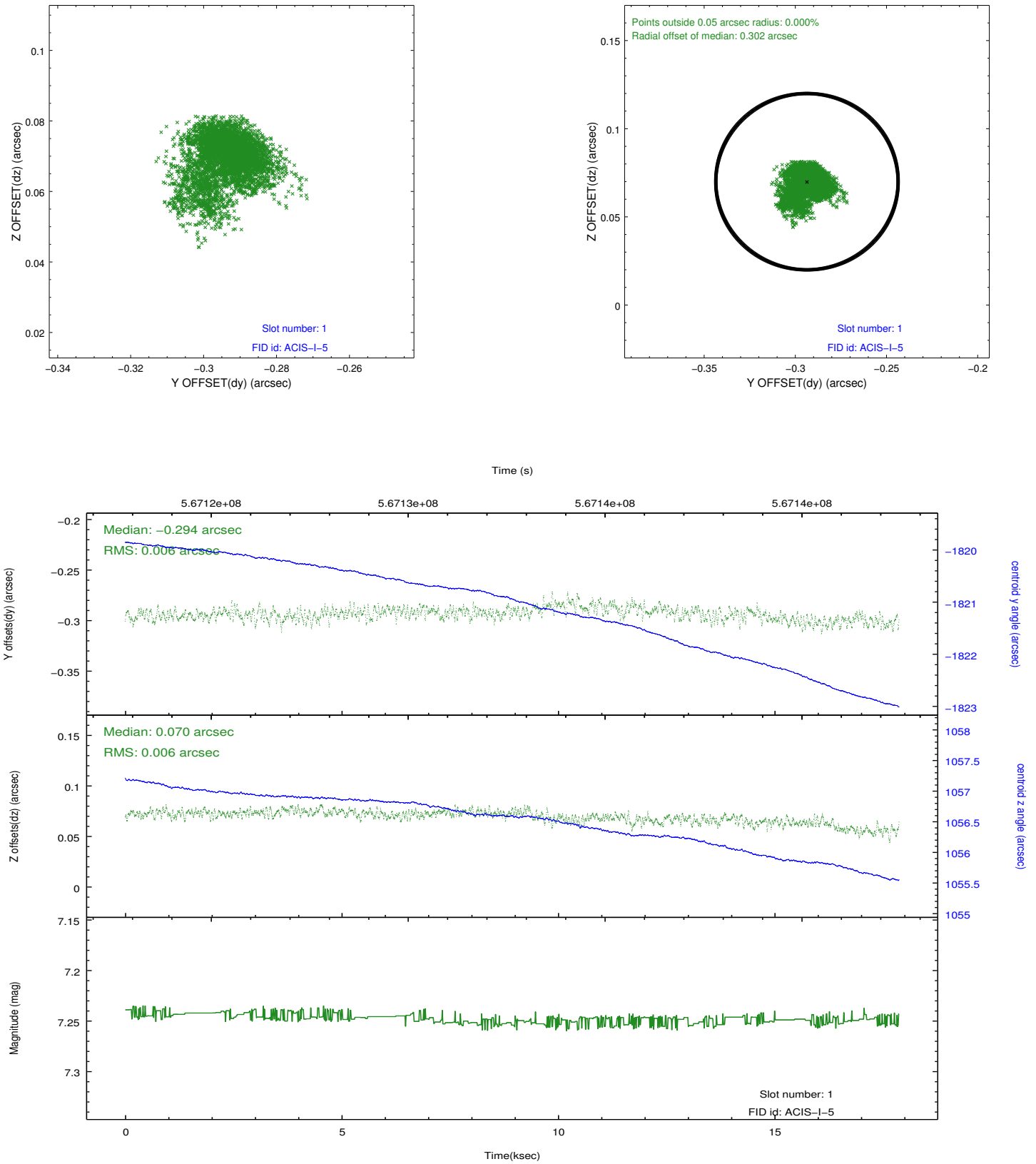


2.5 FID Slots

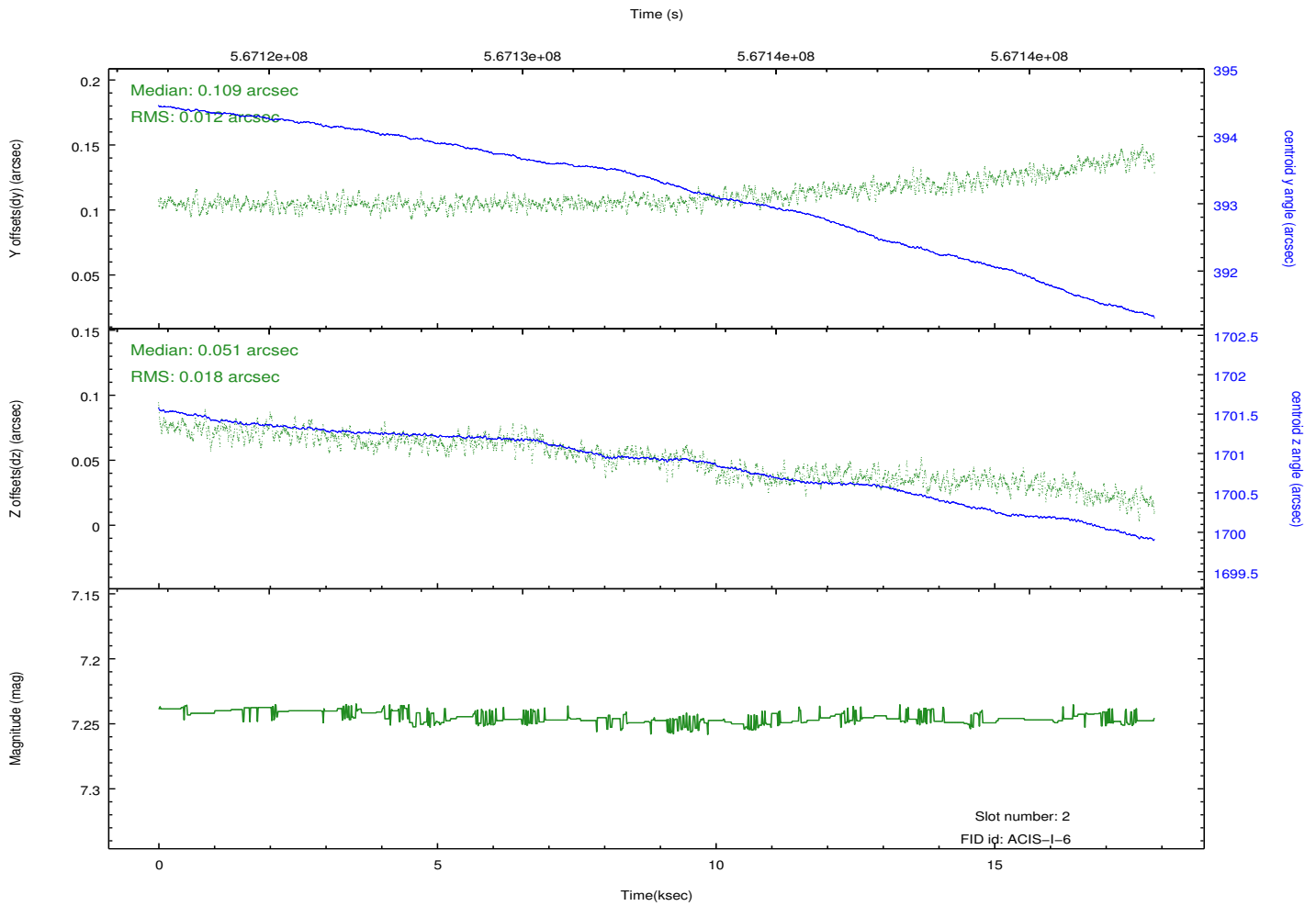
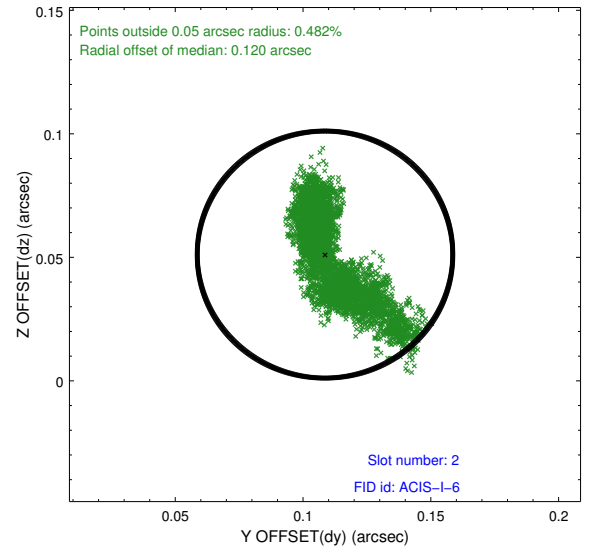
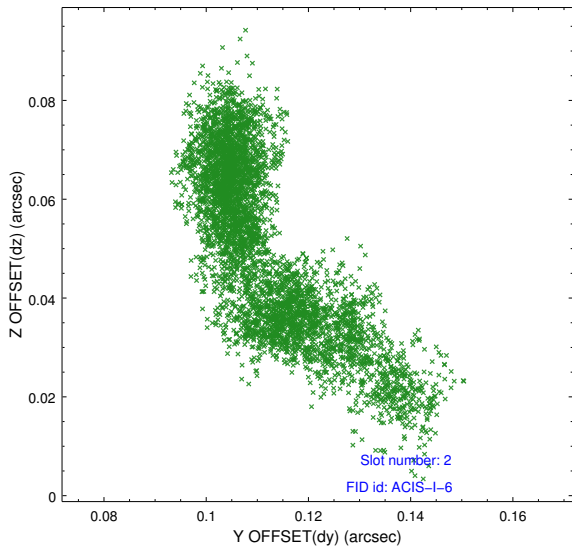
2.5.1 Slot 0



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)	2015.12.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.956759242415

A.2 Comments