

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20803 - L2 Version 1
Chandra X-Ray Center

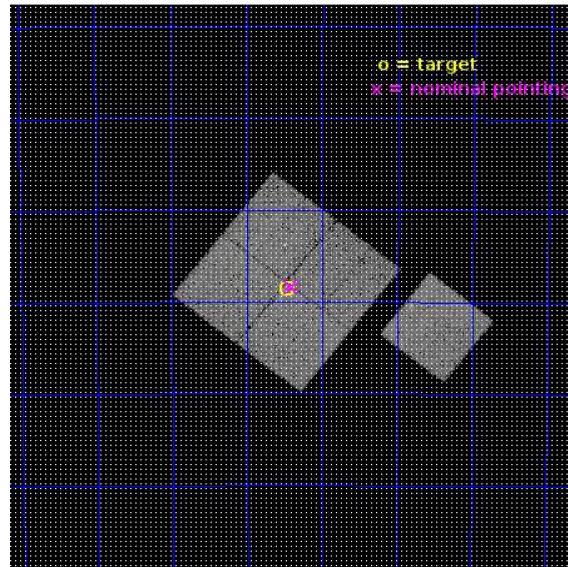
L2 Processing Date : Oct 16 2017

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1 Front

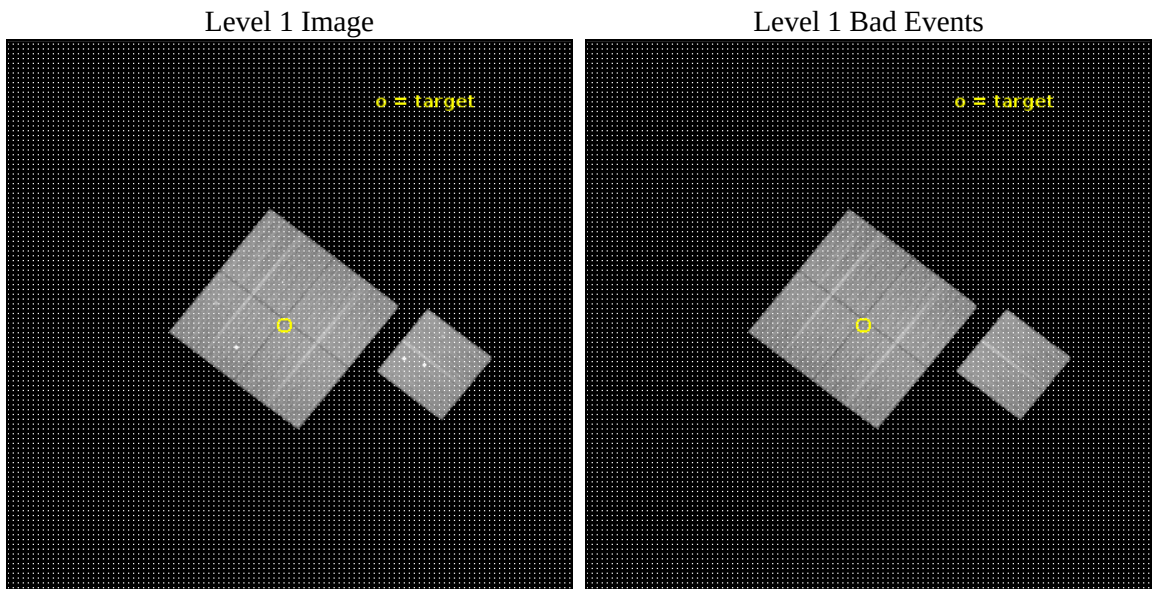
seq_num	201109	Sequence number
obs_id	20803	Observation id
title	An X-ray Census of the Young Stellar Population in a Massive Forming Cluster	Proposal title
observer	Jonathan Tan	Principal investigator
object	G286.21+0.17	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	159.617083	Observer's specified target RA [deg]
dec_targ	-58.309444	Observer's specified target Dec [deg]
ra_nom	159.60270767565	Nominal RA [deg]
dec_nom	-58.305947279607	Nominal Dec [deg]
roll_nom	128.19644566639	Nominal Roll [deg]
revision	1	Processing version of data
ontime	32367.059258819	Sum of GTIs [s]
livetime	31944.15980132	Livetime [s]
ontime0	32367.059278846	Sum of GTIs [s]
ontime1	32367.059278846	Sum of GTIs [s]
ontime2	32367.059178829	Sum of GTIs [s]
ontime3	32367.059258819	Sum of GTIs [s]
ontime6	32370.200249076	Sum of GTIs [s]
l2events	94434	Number of level 2 events



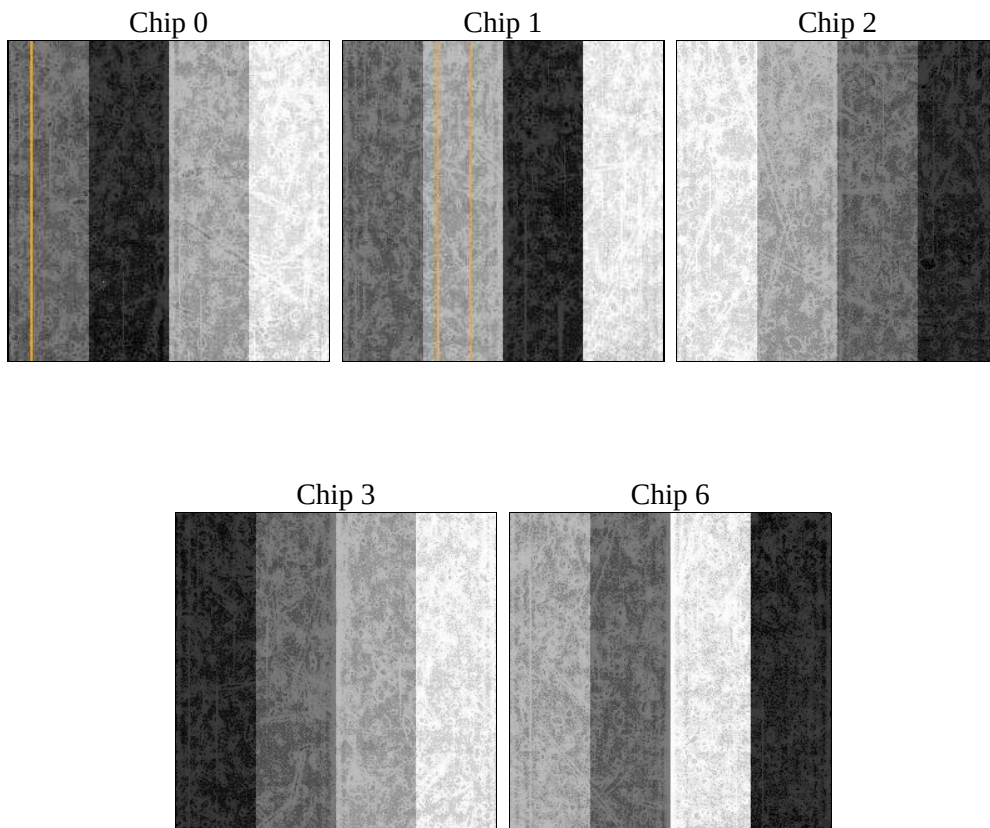
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	32300.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	32367.059258819	Sum of GTIs [s]
caldsver	4.7.6	 	ontime0	32367.059278846	Sum of GTIs [s]
date	2017-10-16T15:08:43	Date and time of file creation	ontime1	32367.059278846	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	32367.059178829	Sum of GTIs [s]
			ontime3	32367.059258819	Sum of GTIs [s]
			ontime6	32370.200249076	Sum of GTIs [s]
			l1events	1006409	Number of level 1 events

2.1.4 Events

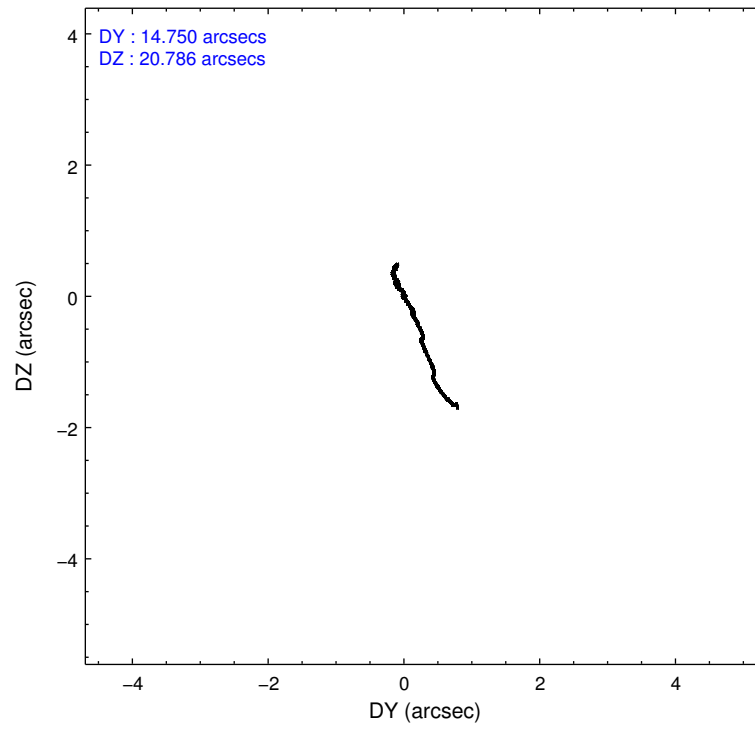
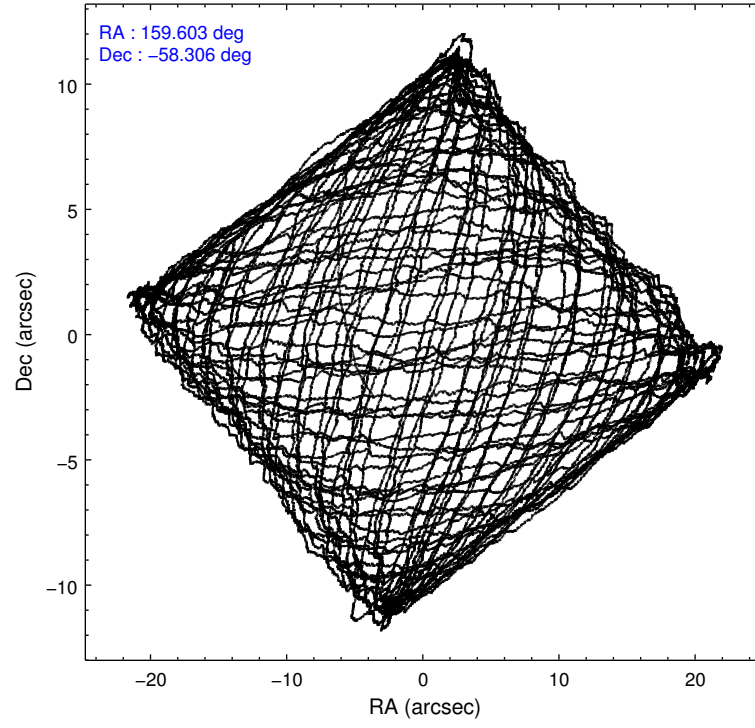
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	181885	197752	207637	194607	224528
rejected events	157841	163482	186300	172868	181290
rejected %	86%	82%	89%	88%	80%

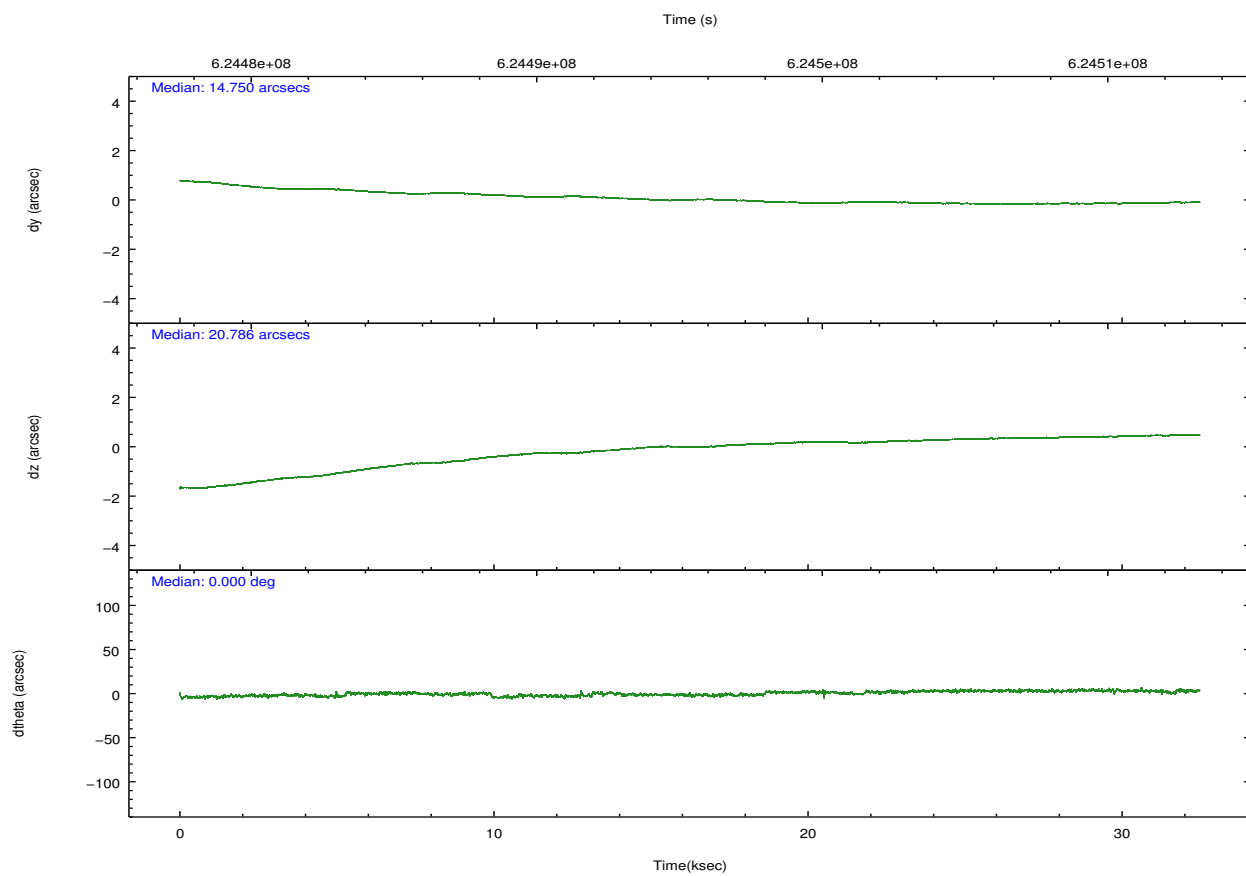
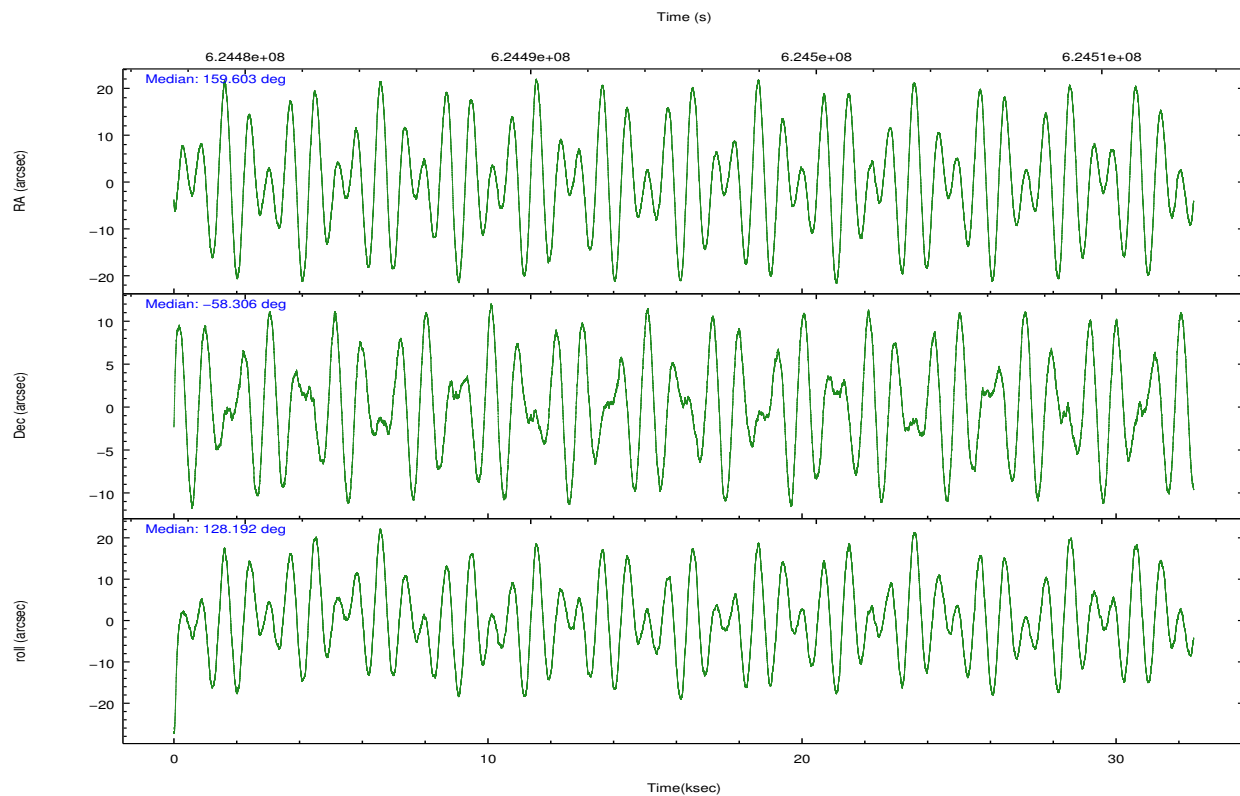
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9144	18696	7978	8179	28358
	5%	9%	3%	4%	12%
grade 1 events	109	140	127	117	238
	0%	0%	0%	0%	0%
grade 2 events	6020	5889	5324	4811	5430
	3%	2%	2%	2%	2%
grade 3 events	2267	2377	2030	2254	2265
	1%	1%	0%	1%	1%
grade 4 events	2211	2270	2087	2171	2200
	1%	1%	1%	1%	0%
grade 5 events	7393	7896	6834	8440	8286
	4%	3%	3%	4%	3%
grade 6 events	4404	5042	3918	4326	4989
	2%	2%	1%	2%	2%
grade 7 events	150337	155442	179339	164309	172762
	82%	78%	86%	84%	76%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	159.651572	159.6027076756527	CCD I2 on	Y	Y
[deg] Pointing Dec	-58.316113	-58.30594727960666	CCD I3 on	Y	Y
[deg] Pointing Roll	128.029341	128.1964456663945	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	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	624479307.184000	624478067.61033	CCD S5 on	N	N
Observation start date	2017-10-15T18:27:18	2017-10-15T18:07:47	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	624511607.184000	624512622.92485	On-chip summing requested	N	N
Observation end date	2017-10-16T03:25:38	2017-10-16T03:43:42	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



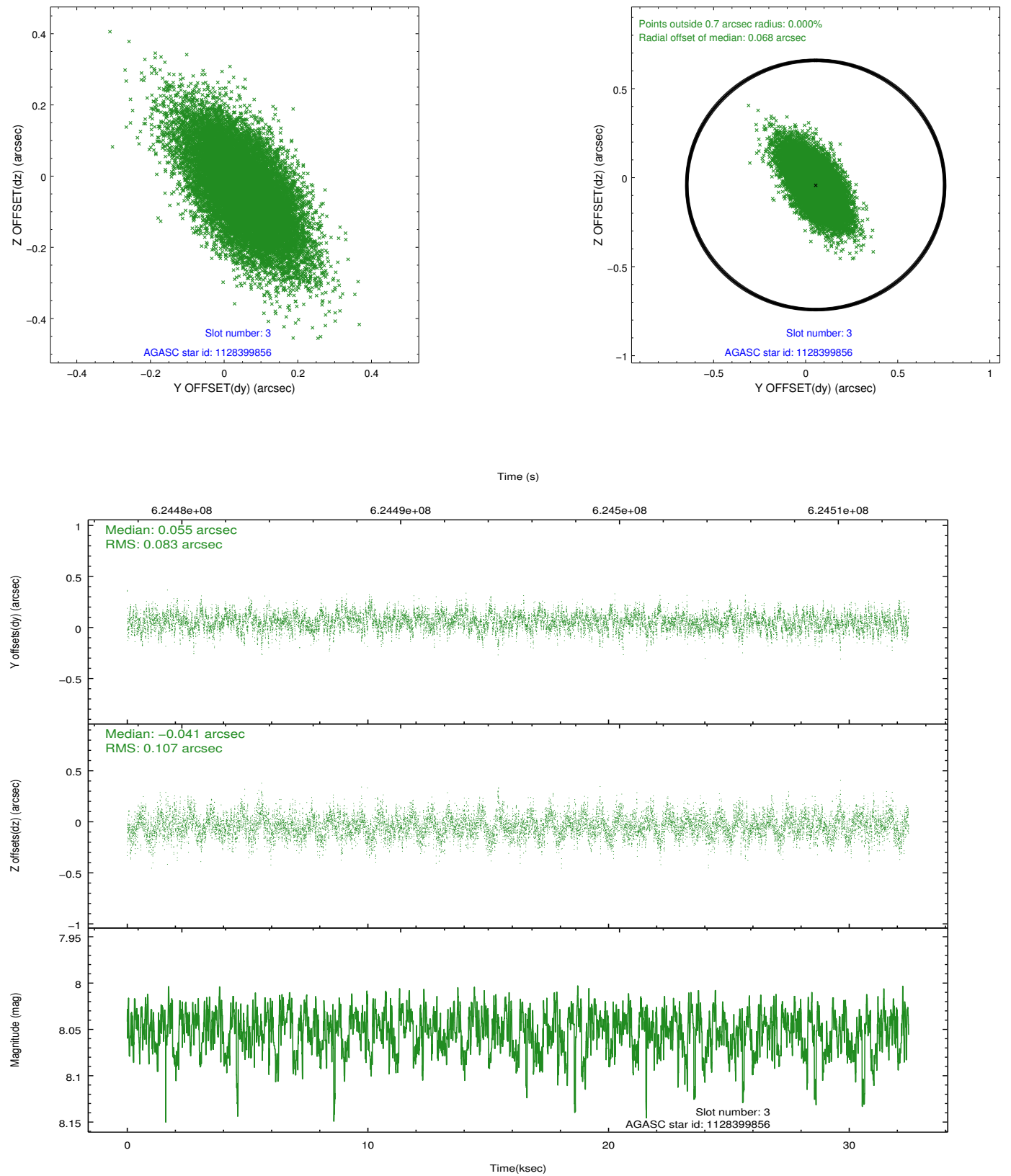


Slot Statistics

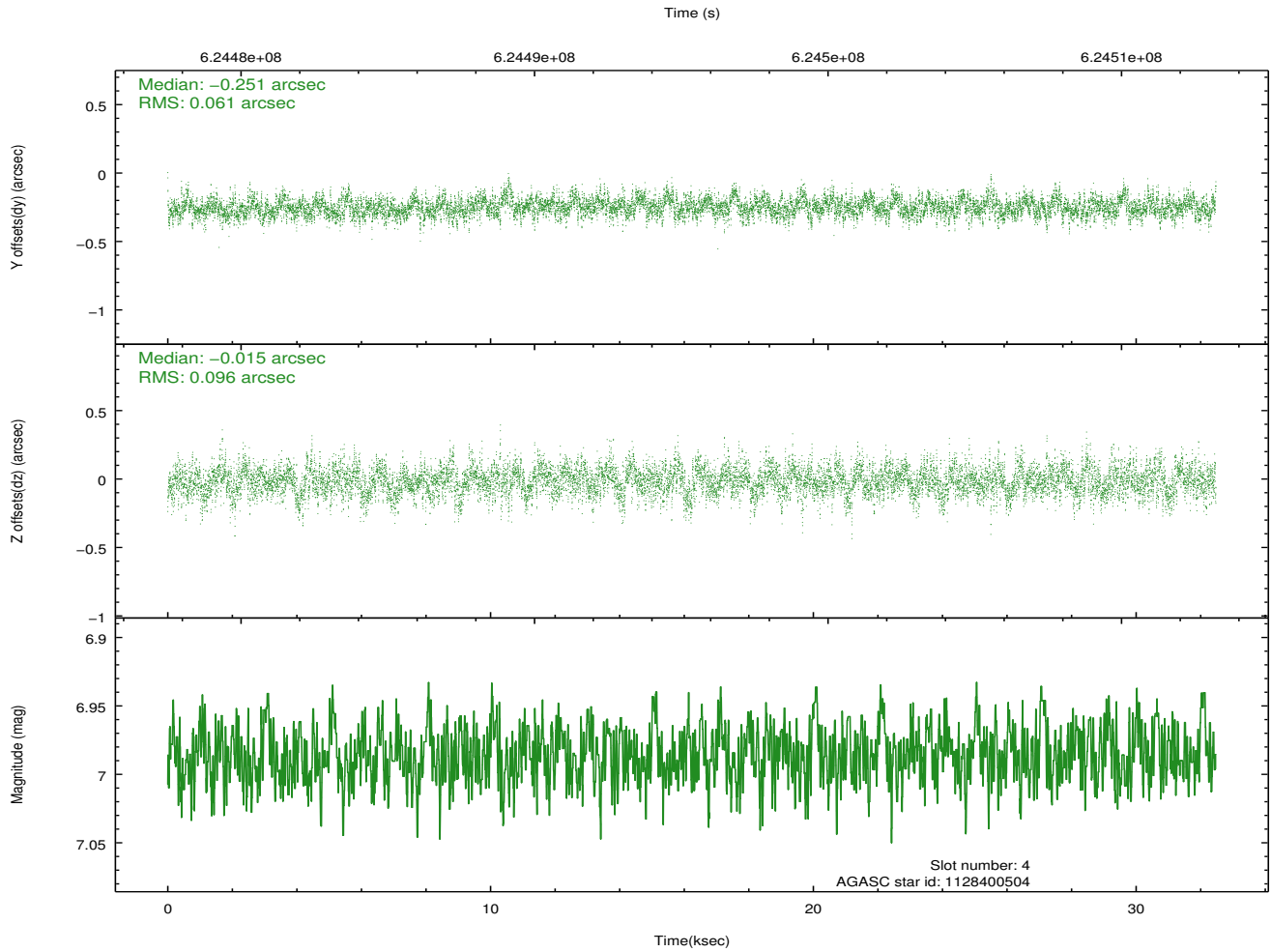
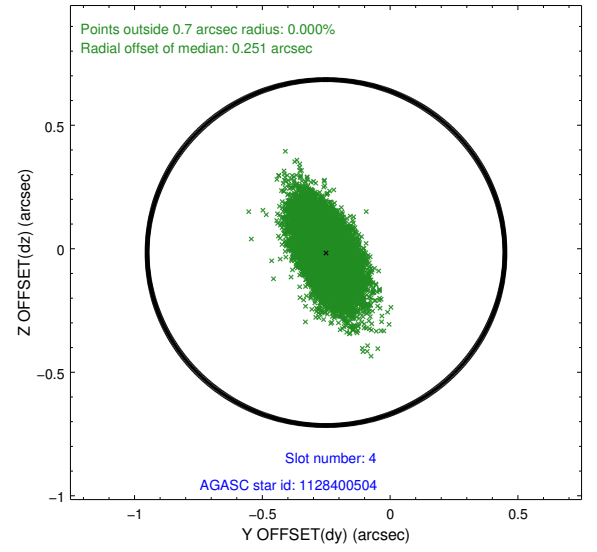
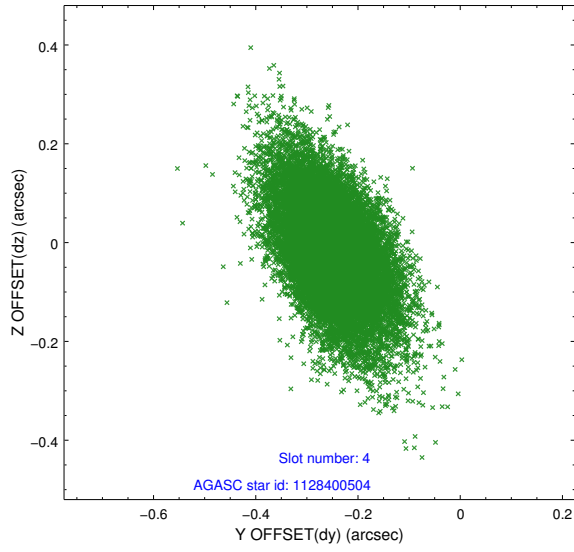
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.12	7920	-0.013	-0.058	0.026	0.078	0.000000	0.000000	924.57	-844.39
1	FID		ACIS-I-2	7.04	7919	-0.300	-0.106	0.022	0.051	0.000000	0.000000	-769.78	-850.86
2	FID		ACIS-I-4	7.07	7916	0.216	0.227	0.021	0.033	0.000000	0.000000	2144.73	1055.61
3	GUIDE	used	1128399856	8.05	15839	0.055	-0.041	0.138	0.249	159.643120	-57.562425	2147.68	-1658.21
4	GUIDE	used	1128400504	6.99	15841	-0.251	-0.015	0.114	0.207	159.049877	-57.862924	1990.97	-93.86
5	GUIDE	used	1128940640	8.25	15835	0.052	-0.271	0.206	0.326	159.517239	-59.074495	-1997.50	1877.94
6	GUIDE	used	1130629840	8.16	15836	0.124	0.337	0.142	0.231	161.087793	-58.400936	-1931.93	-1927.23
7	GUIDE	used	1130630400	8.51	15834	0.019	-0.037	0.152	0.259	160.235909	-58.888840	-2297.10	417.15

2.4 Star Slots

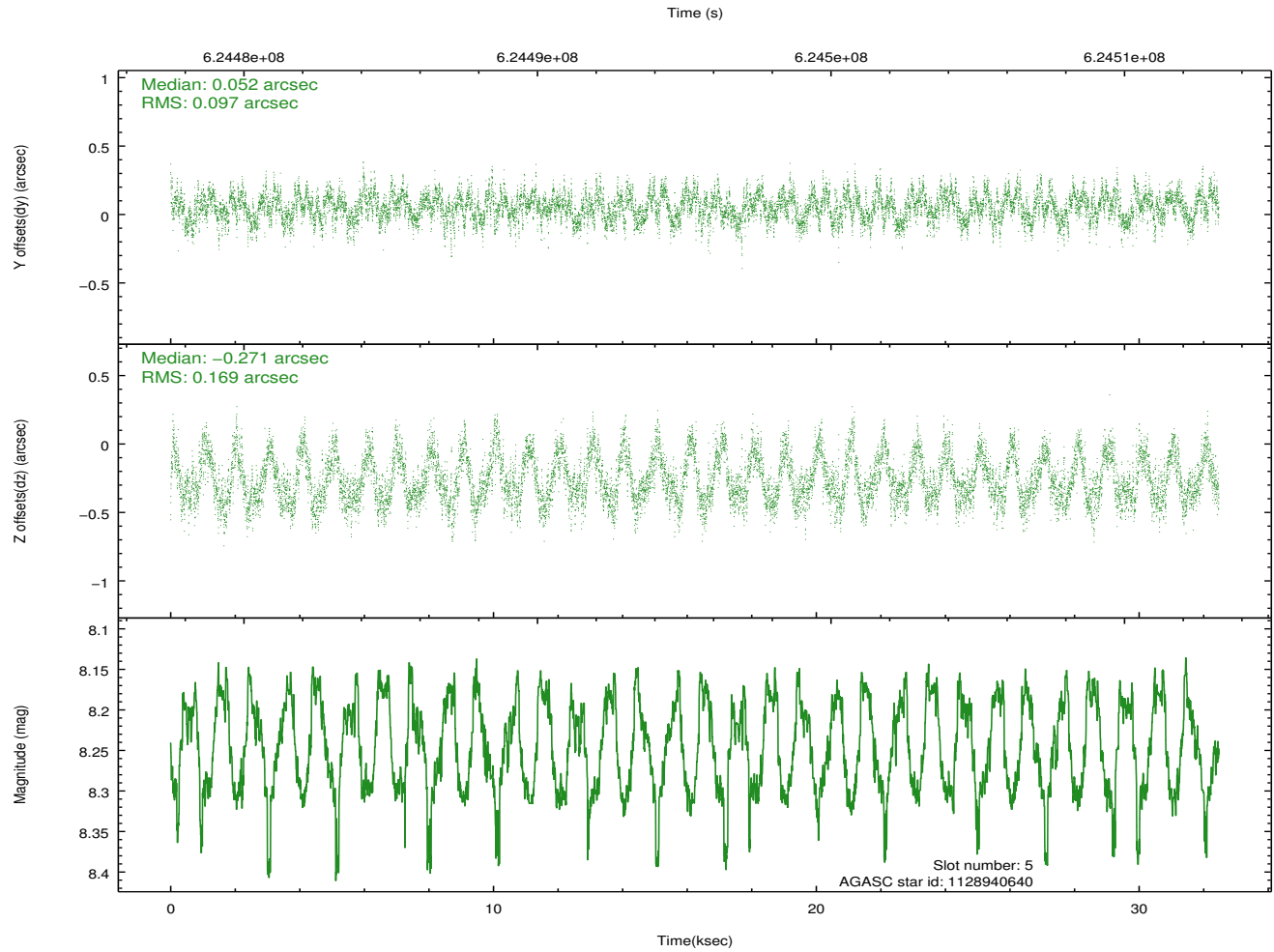
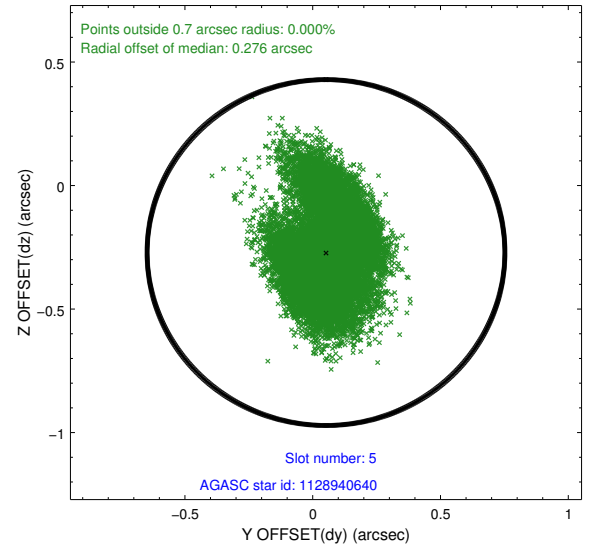
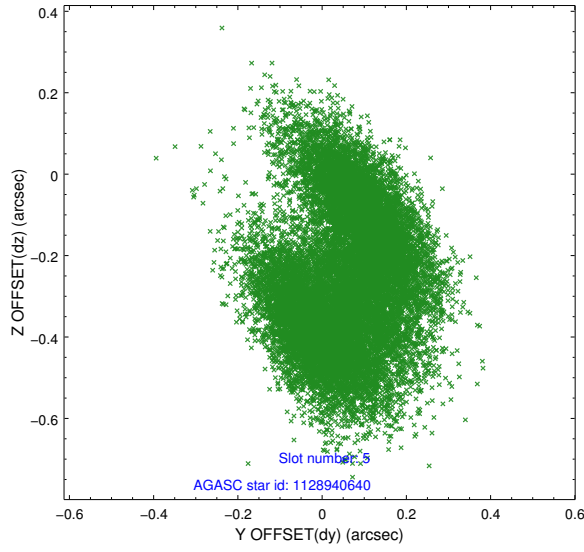
2.4.1 Slot 3



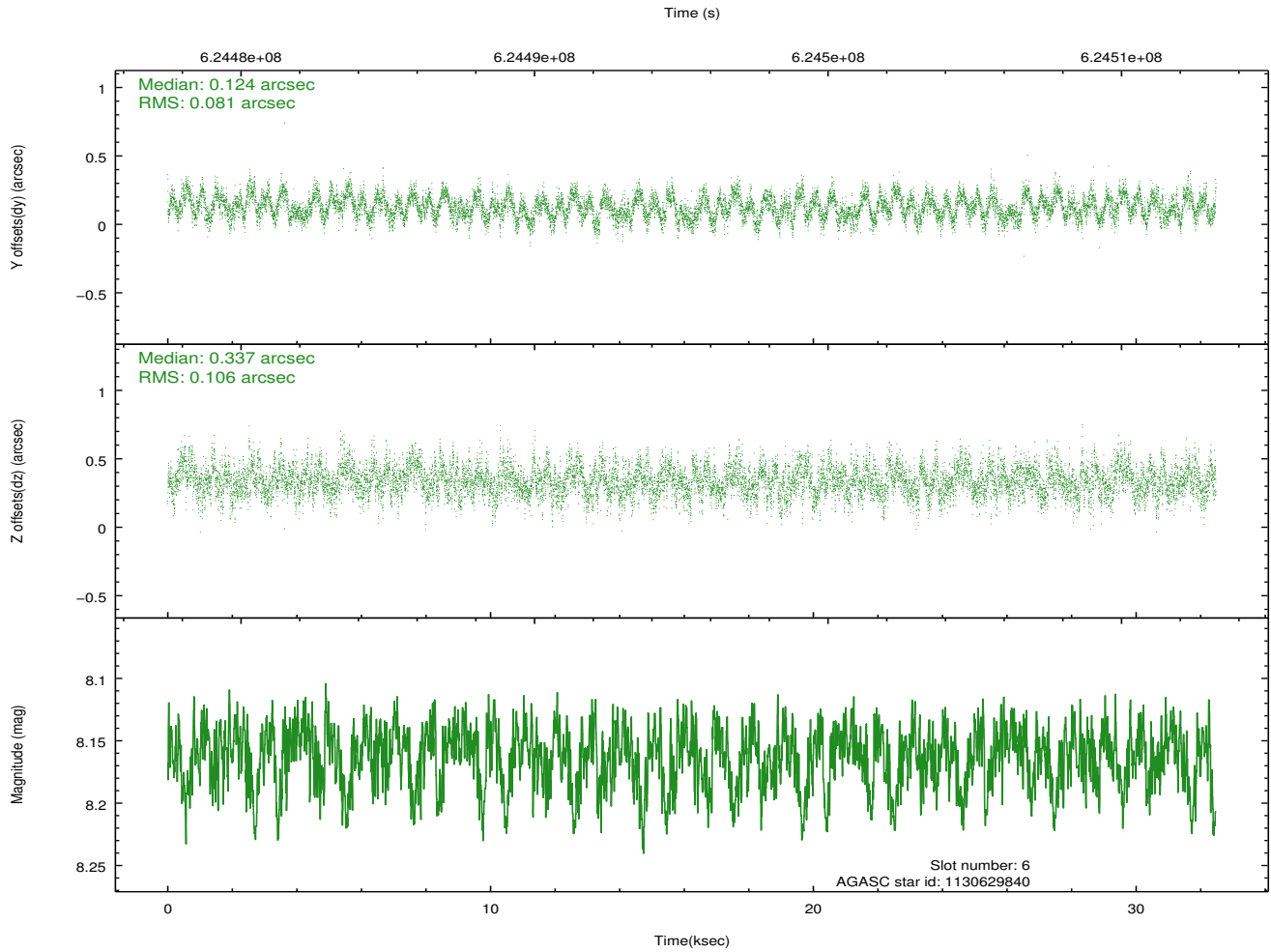
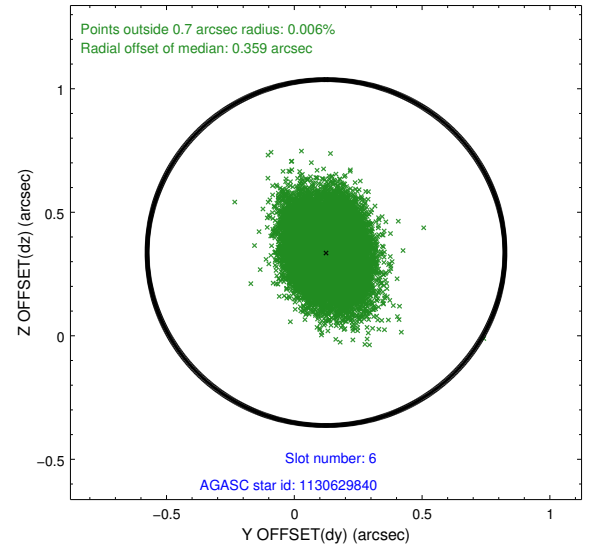
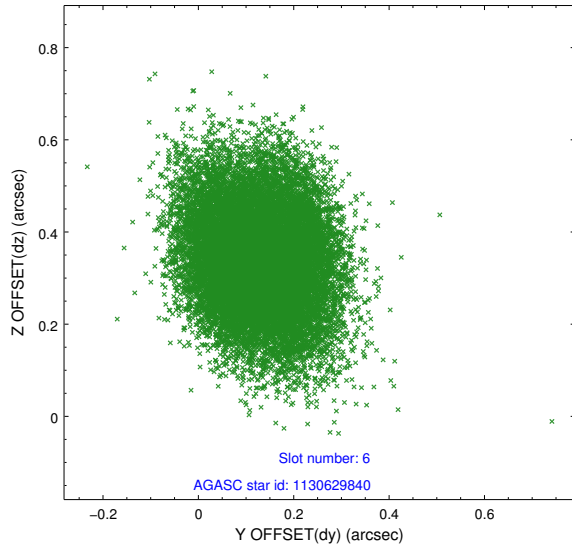
2.4.2 Slot 4



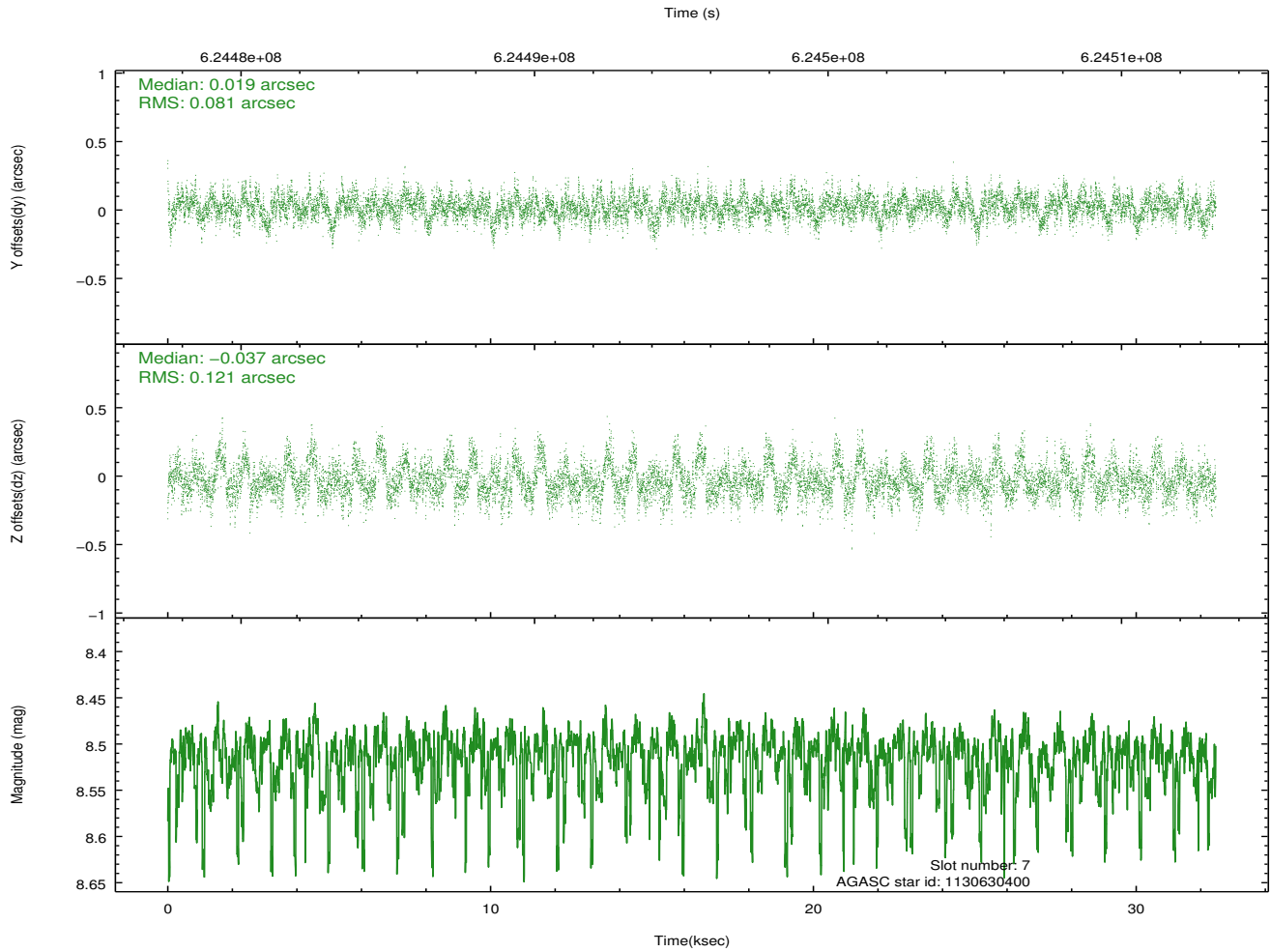
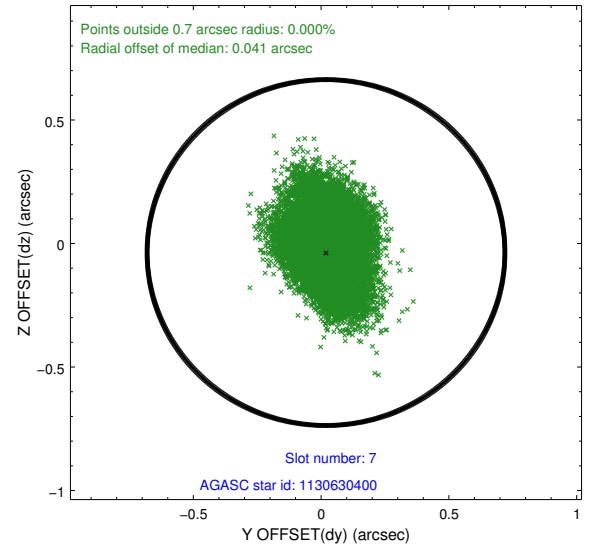
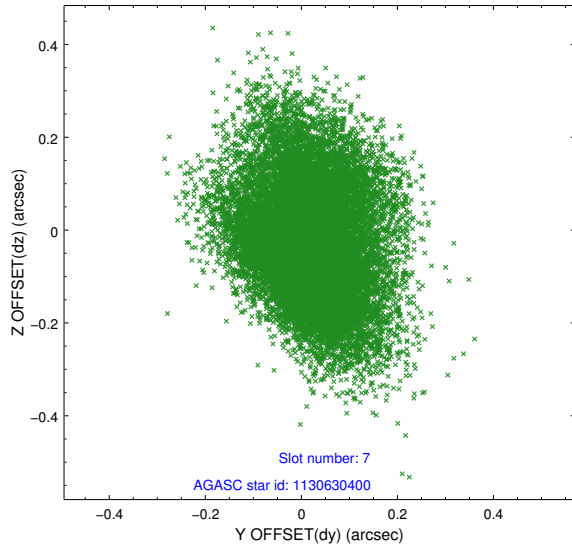
2.4.3 Slot 5



2.4.4 Slot 6

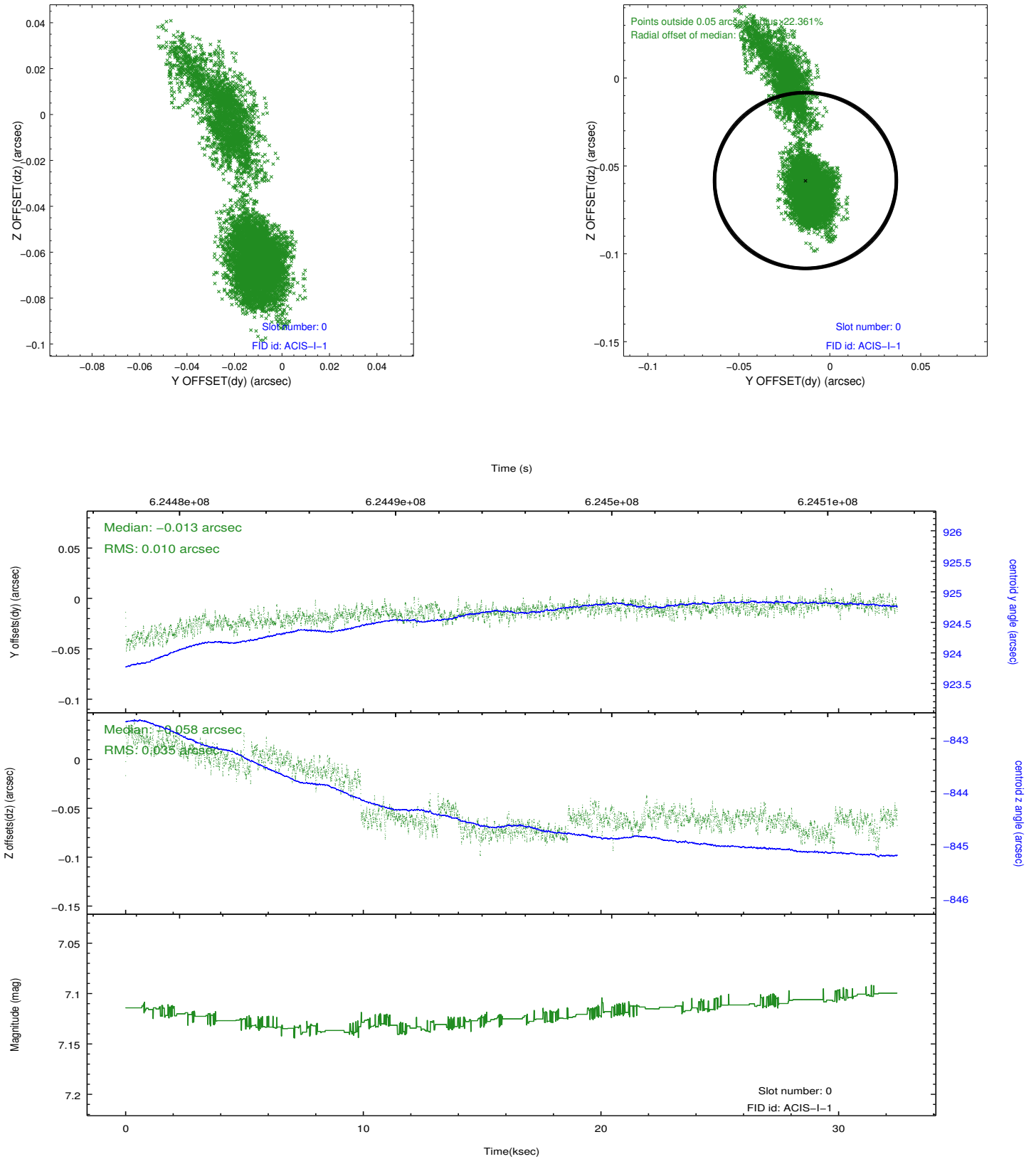


2.4.5 Slot 7

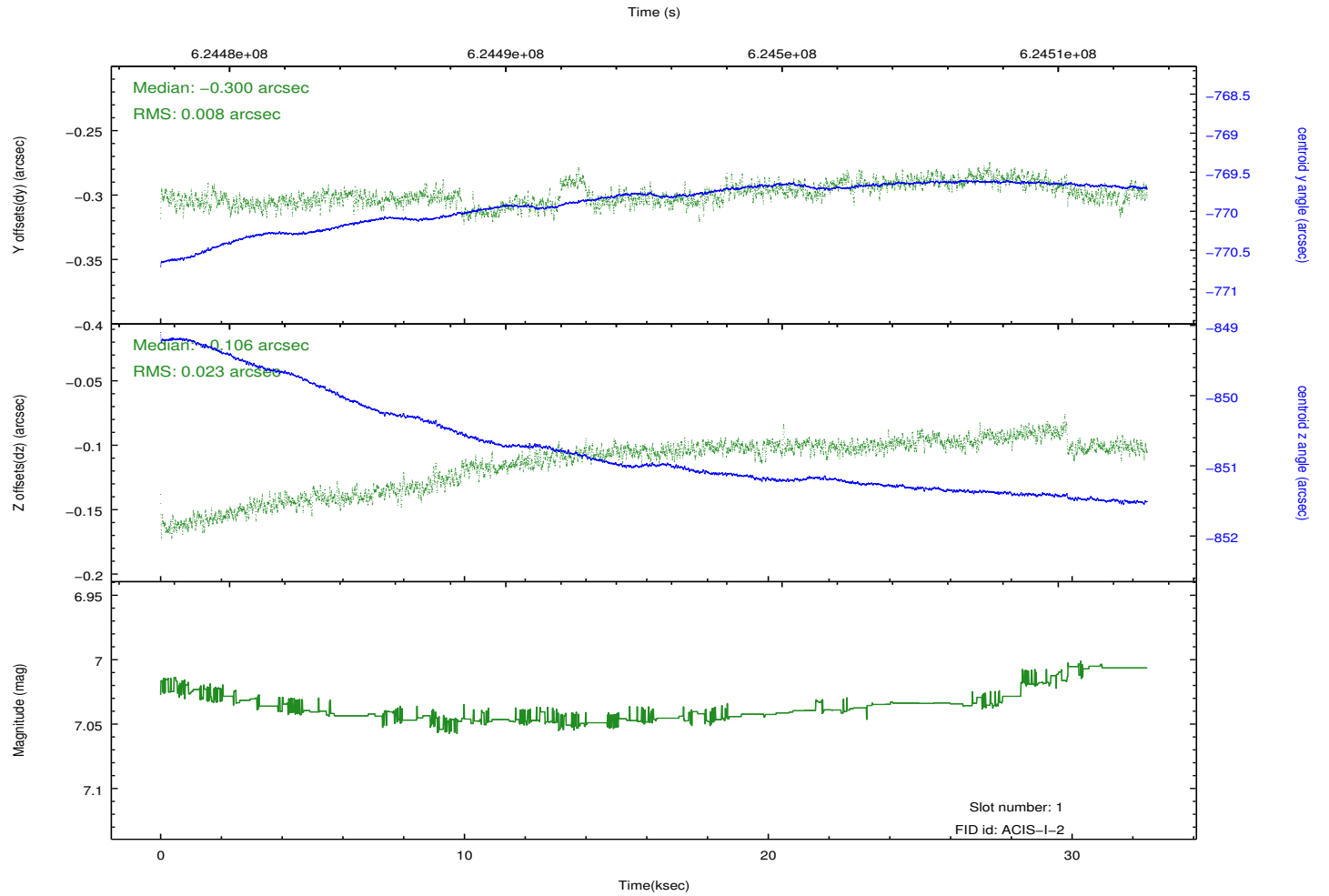
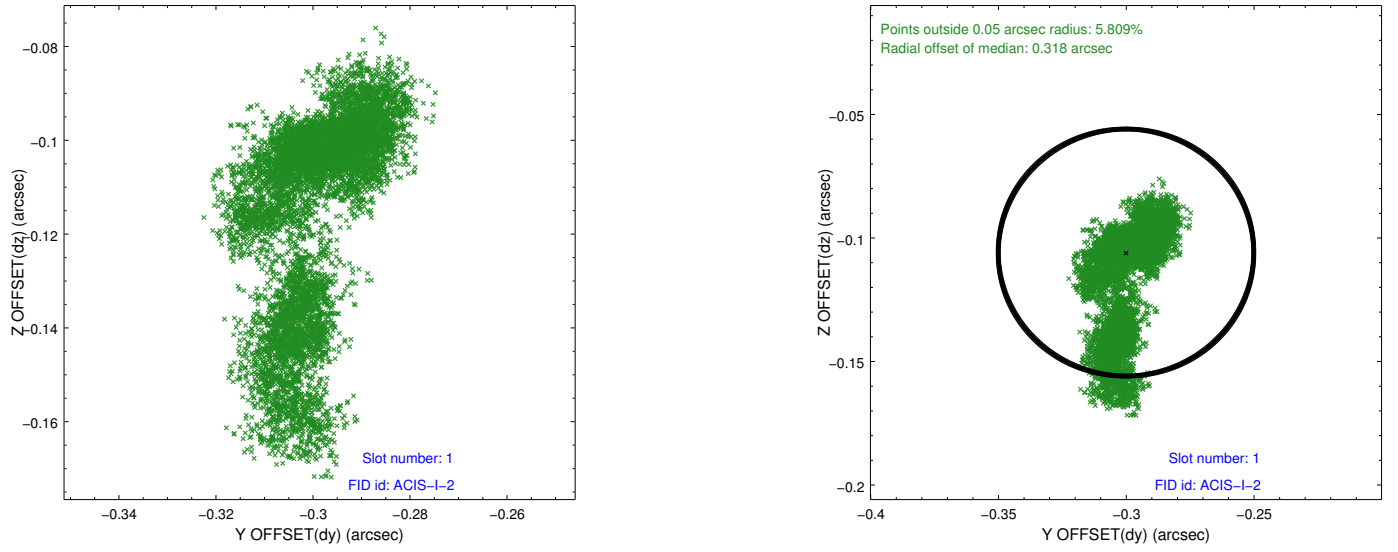


2.5 FID Slots

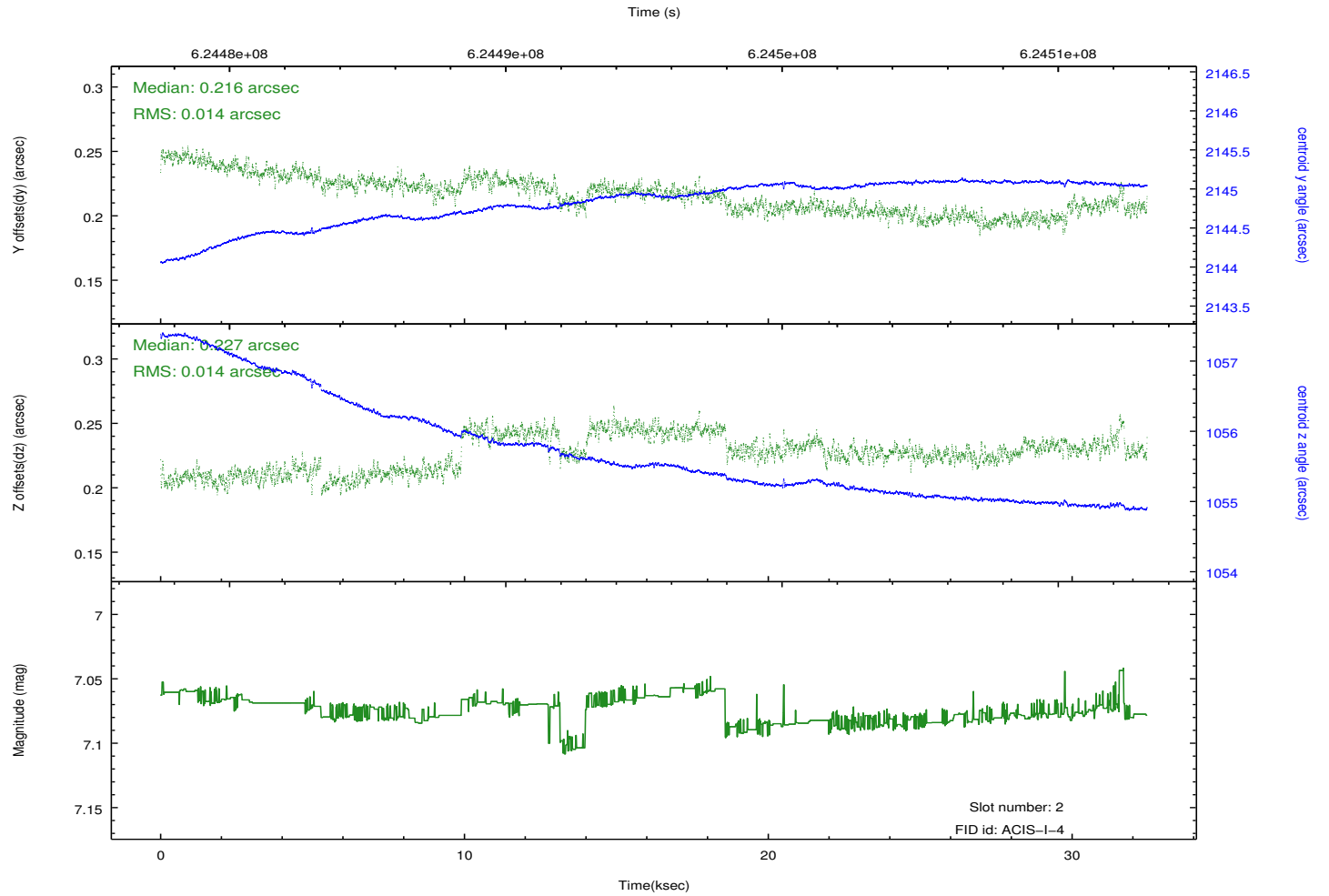
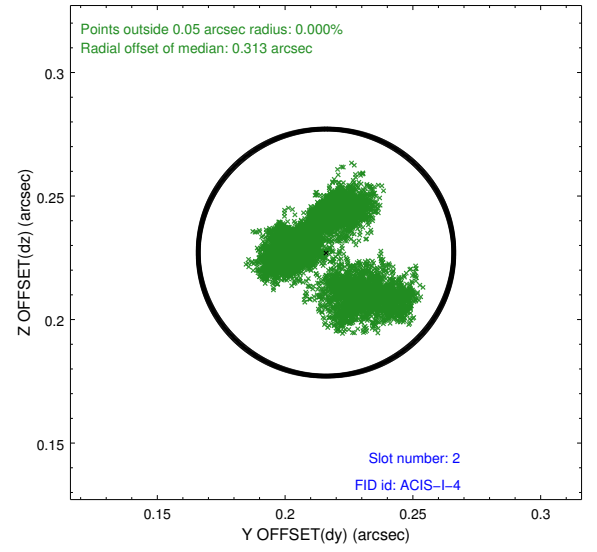
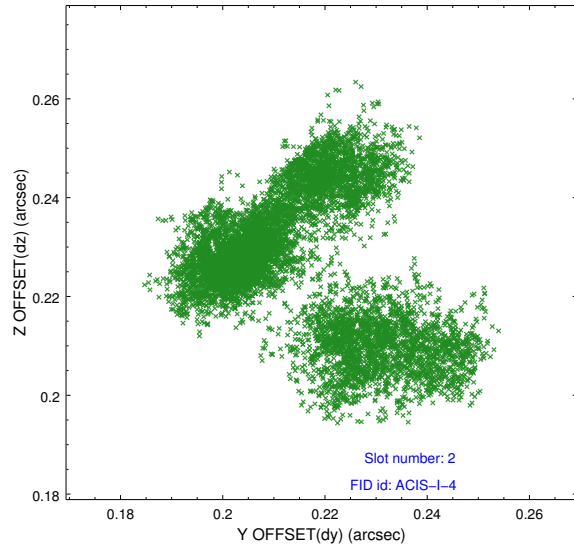
2.5.1 Slot 0



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)	2017.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.367059258819

A.2 Comments

Optional chip S3 not included.