

V&V Reference Report

L2 ASCDS Version : 10.6.4

Observation 21127 - L2 Version 1
Chandra X-Ray Center

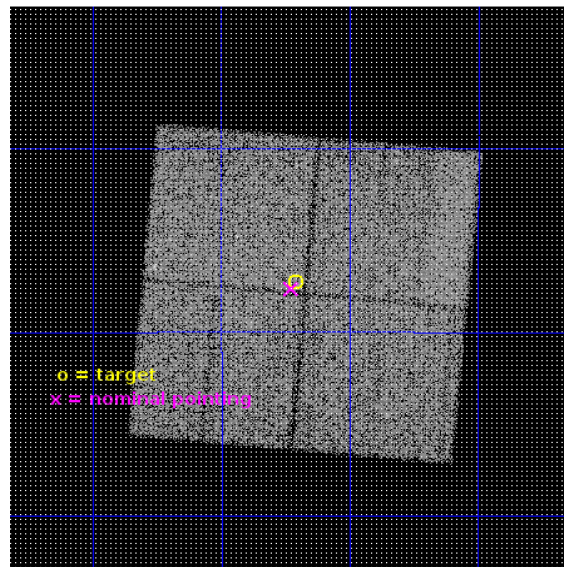
L2 Processing Date : Jul 21 2018

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1 Front

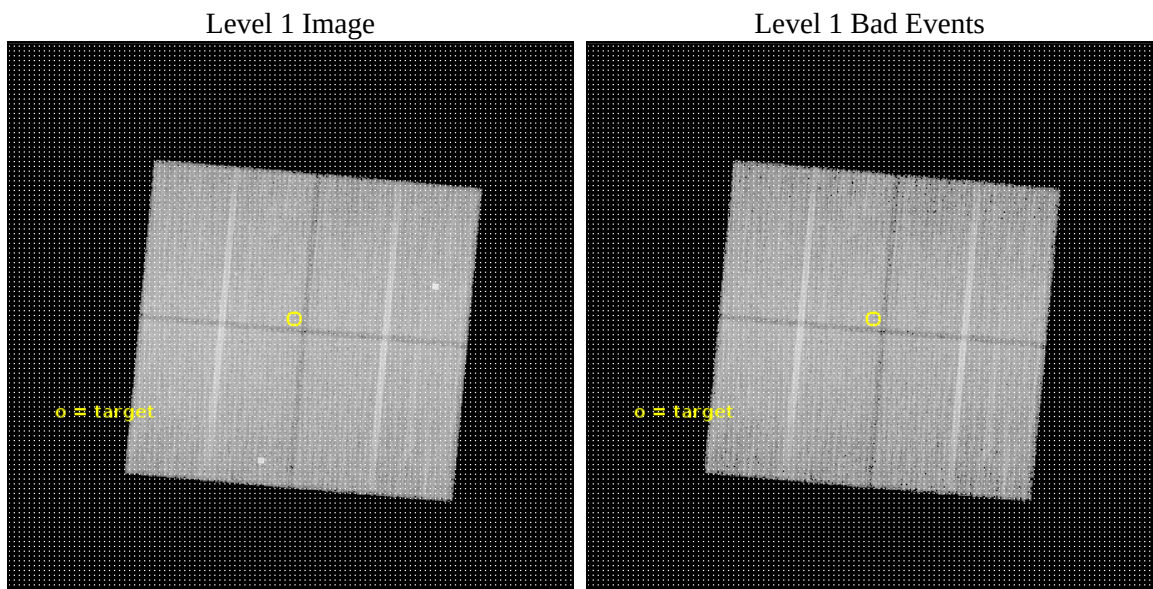
seq_num	601424	Sequence number
obs_id	21127	Observation id
title	Probing MeV-GeV Electrons in the X-ray Regime Using Molecular Cloud Bania's Clump2	Proposal title
observer	Gordon Garmire	Principal investigator
object	Bania Clump 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.9275	Observer's specified target RA [deg]
dec_targ	-26.288333	Observer's specified target Dec [deg]
ra_nom	267.93164341586	Nominal RA [deg]
dec_nom	-26.294075147676	Nominal Dec [deg]
roll_nom	275.21050753884	Nominal Roll [deg]
revision	1	Processing version of data
ontime	38079.456130147	Sum of GTIs [s]
livetime	37581.920002119	Livetime [s]
ontime0	38079.333010197	Sum of GTIs [s]
ontime1	38073.091939926	Sum of GTIs [s]
ontime2	38076.27402997	Sum of GTIs [s]
ontime3	38079.456130147	Sum of GTIs [s]
l2events	113980	Number of level 2 events



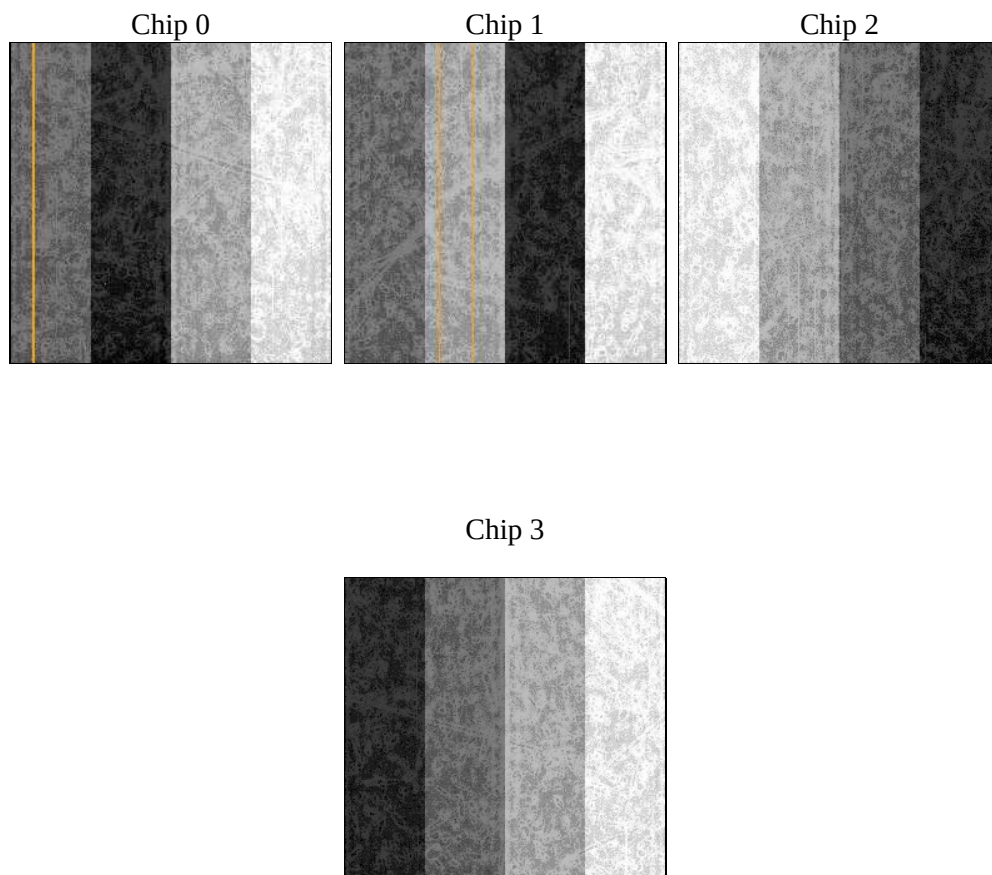
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	38000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4	Processing system revision	ontime	38079.456130147	Sum of GTIs [s]
caldbver	4.7.8	 	ontime0	38079.333010197	Sum of GTIs [s]
date	2018-07-21T23:37:46	Date and time of file creation	ontime1	38073.091939926	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	38076.27402997	Sum of GTIs [s]
			ontime3	38079.456130147	Sum of GTIs [s]
			l1events	1101555	Number of level 1 events

2.1.4 Events

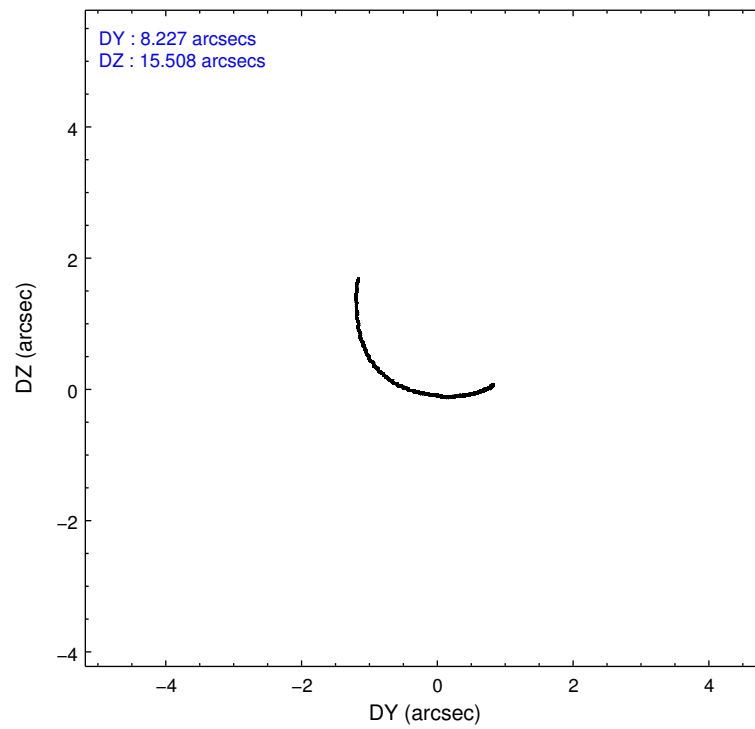
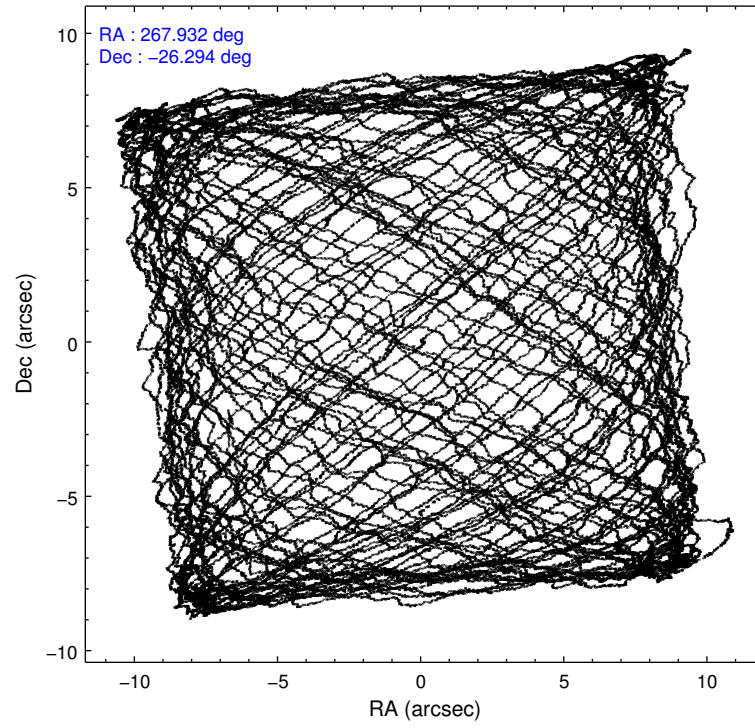
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	262883	271282	289012	278378
rejected events	229204	231816	254157	246130
rejected %	87%	85%	87%	88%

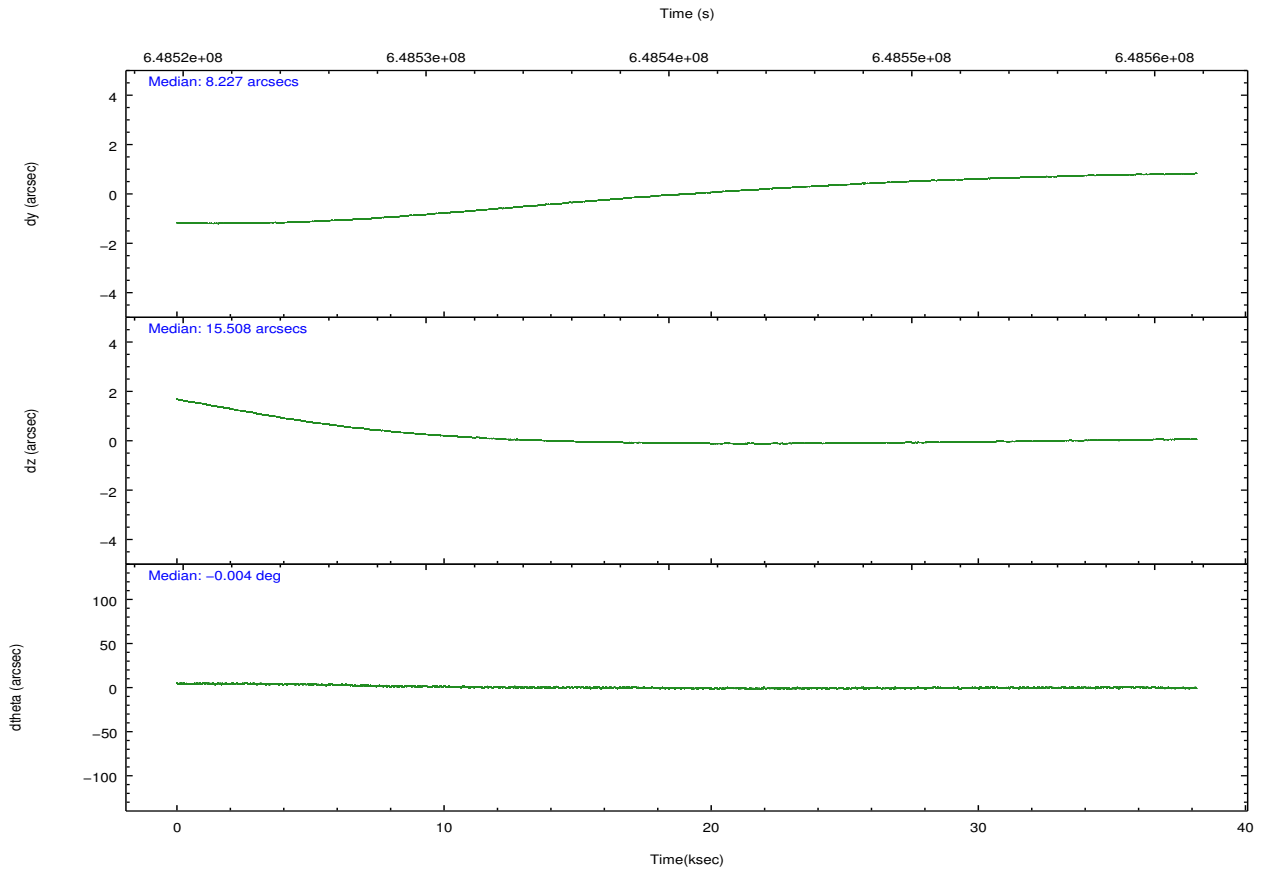
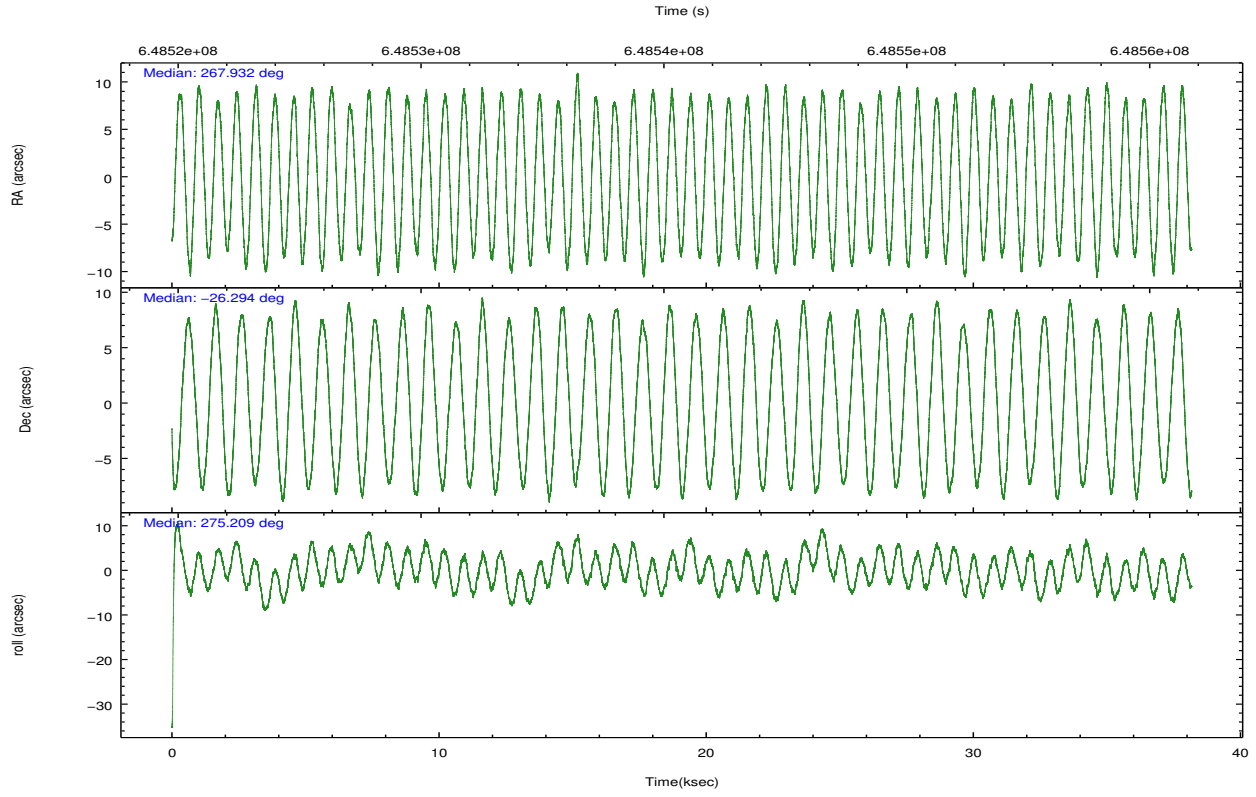
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	12217	15511	14051	11989
	4%	5%	4%	4%
grade 1 events	158	178	214	154
	0%	0%	0%	0%
grade 2 events	8304	8918	7942	6968
	3%	3%	2%	2%
grade 3 events	3404	3495	3160	3275
	1%	1%	1%	1%
grade 4 events	3009	3383	3268	3323
	1%	1%	1%	1%
grade 5 events	12245	12841	11629	13728
	4%	4%	4%	4%
grade 6 events	6749	8168	6439	6697
	2%	3%	2%	2%
grade 7 events	216797	218788	242309	232244
	82%	80%	83%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	267.913796	267.9316434158594	Subarray requested	NONE	NONE
[deg] Pointing Dec	-26.271572	-26.29407514767602	Alternating exposures requested	N	N
[deg] Pointing Roll	274.993934	275.2105075388404	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	648521797.184000	648520784.72729			
Observation start date	2018-07-21T00:55:28	2018-07-21T00:39:44			
[s] Observation end time (MET)	648559797.184000	648560589.06714			
Observation end date	2018-07-21T11:28:48	2018-07-21T11:43:09			
Read mode	TIMED	TIMED			

2.3 Aspect



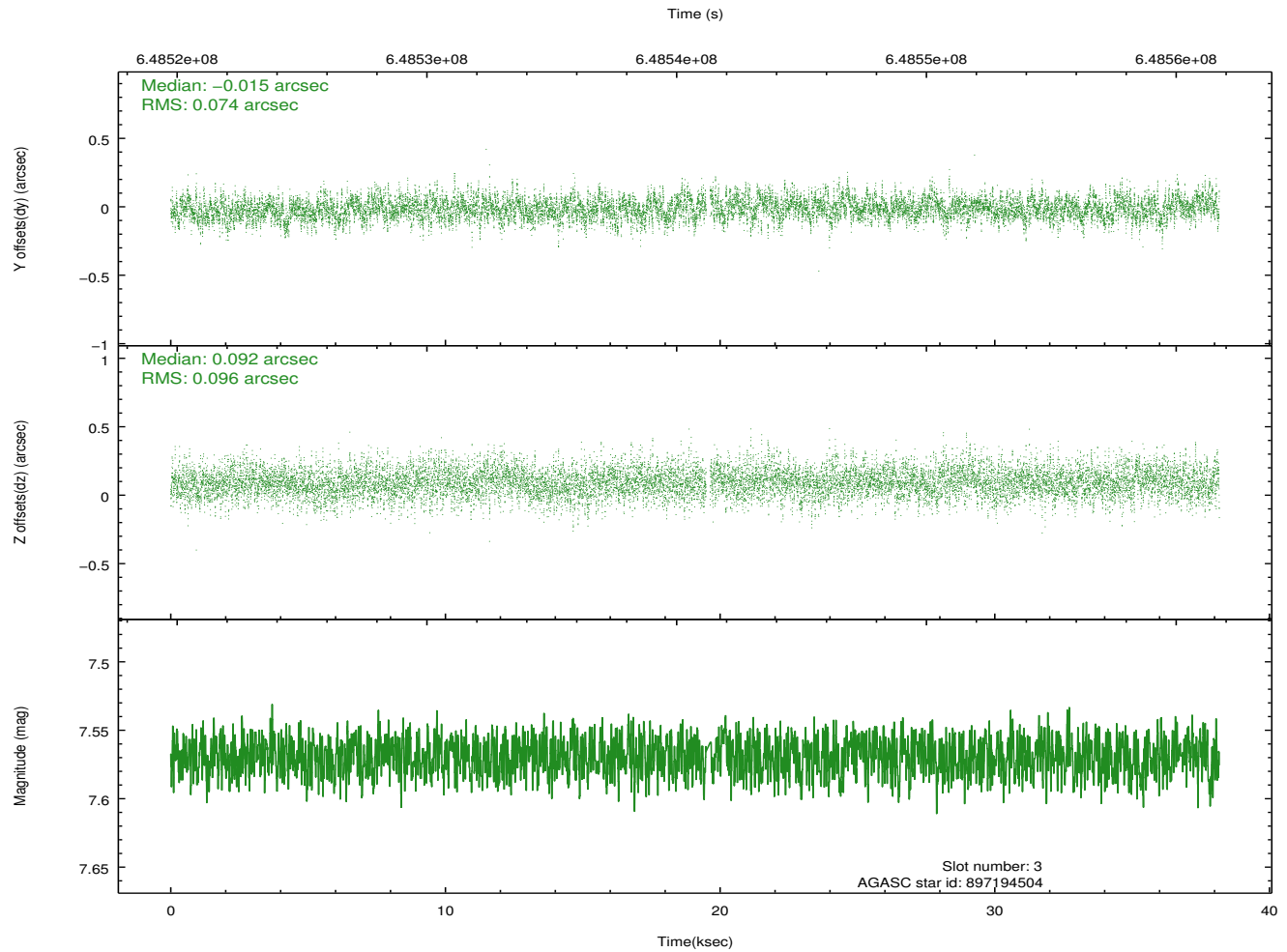
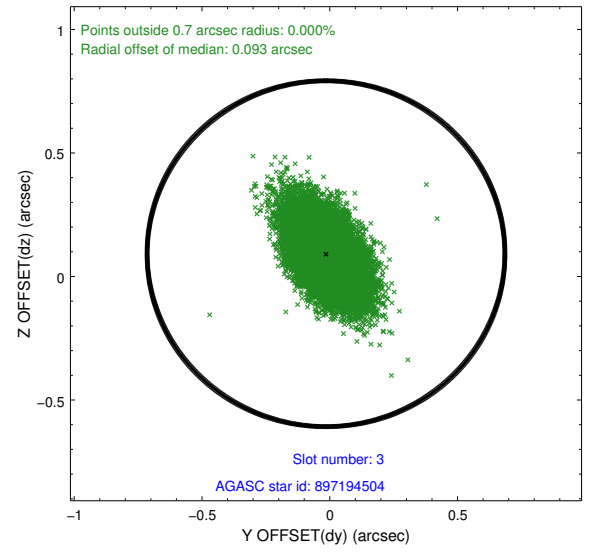
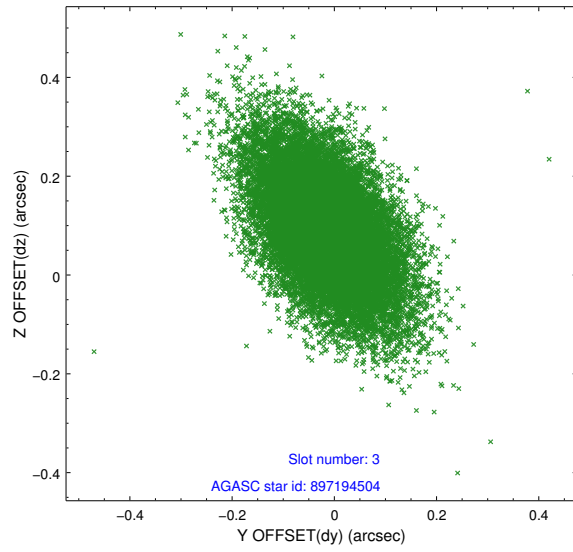


Slot Statistics

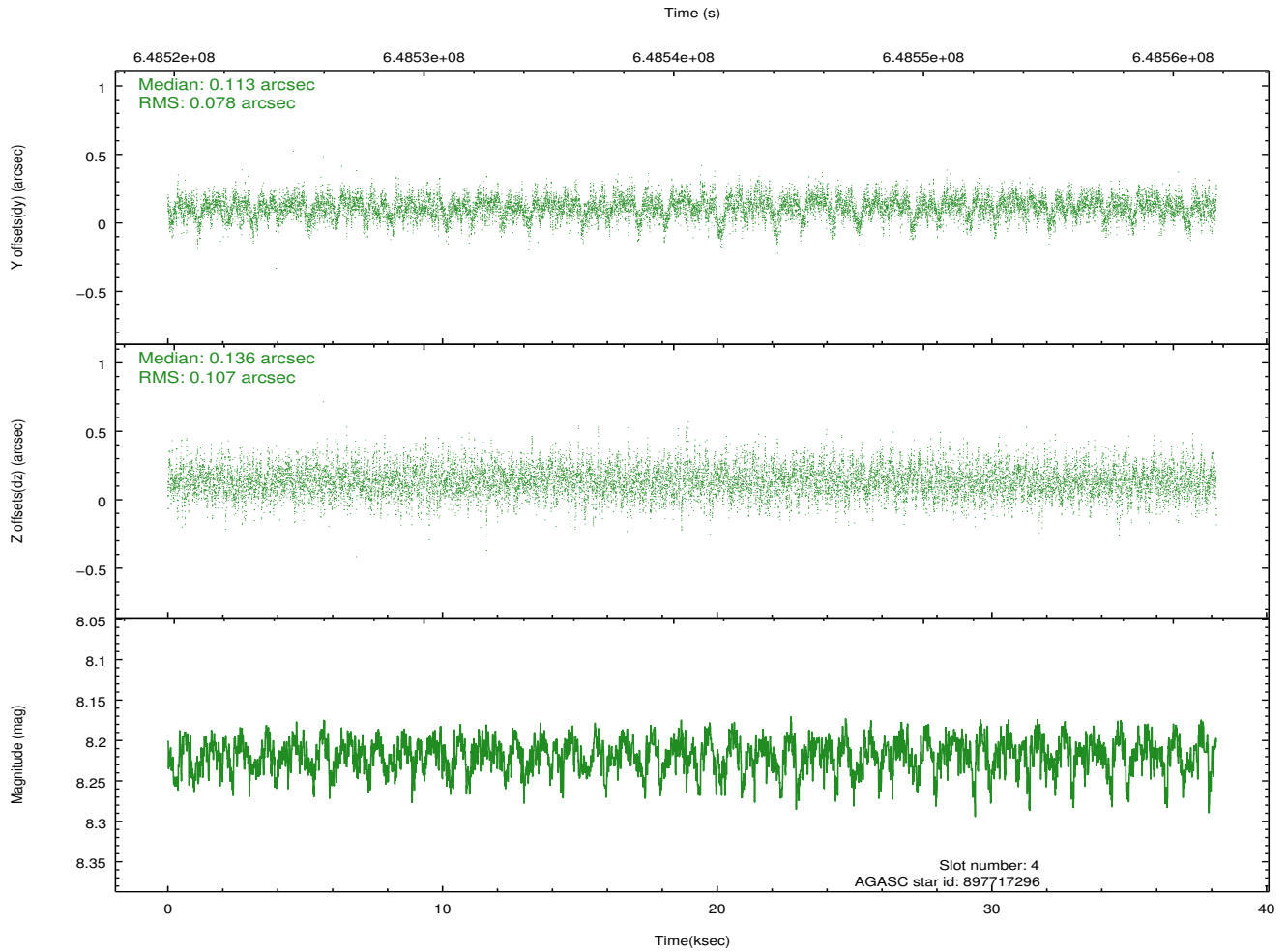
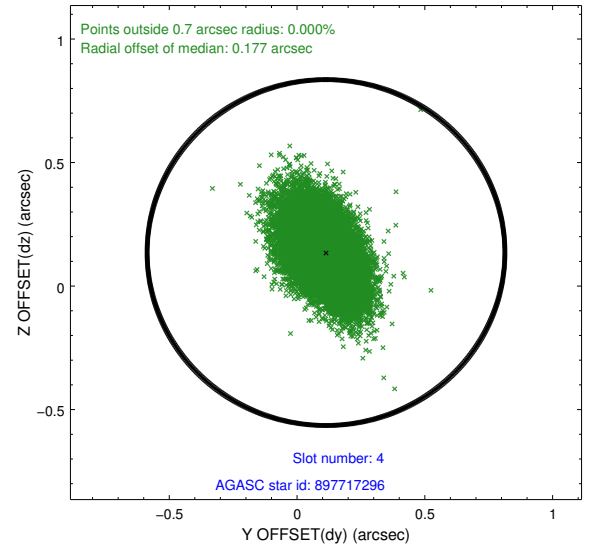
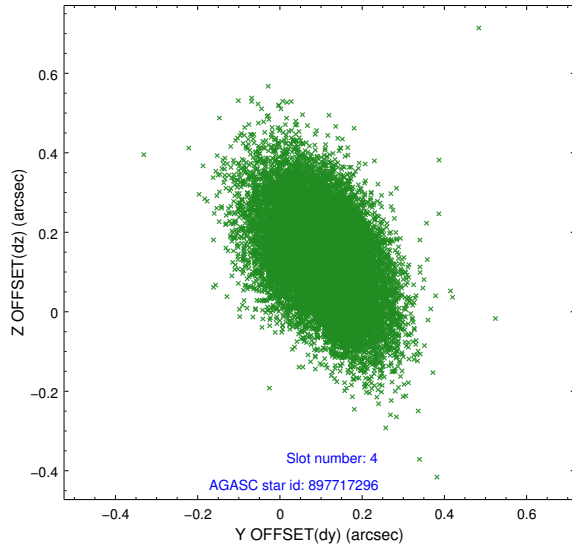
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.15	9311	1.000	0.073	-0.095	0.013	0.033	0.000000	0.000000	931.65	-839
1	FID		ACIS-I-5	7.14	9312	1.000	-0.308	0.032	0.018	0.044	0.000000	0.000000	-1816.91	1058
2	FID		ACIS-I-6	7.14	9309	1.000	0.148	0.130	0.024	0.065	0.000000	0.000000	397.12	1702
3	GUIDE	used	897194504	7.57	18548	1.000	-0.015	0.092	0.123	0.221	267.979415	-25.772977	-1769.11	368
4	GUIDE	used	897717296	8.22	18619	1.000	0.113	0.136	0.136	0.240	267.921819	-26.875322	2167.94	-163
5	GUIDE	used	897717824	8.37	18618	1.000	-0.165	-0.159	0.131	0.234	268.549726	-26.822099	2157.42	1862
6	GUIDE	used	896010144	9.25	18595	1.000	0.090	0.112	0.149	0.258	267.820272	-26.909028	2260.72	-498
7	GUIDE	used	897722680	8.81	18607	1.000	-0.025	-0.182	0.147	0.251	268.059296	-26.906681	2318.94	266

2.4 Star Slots

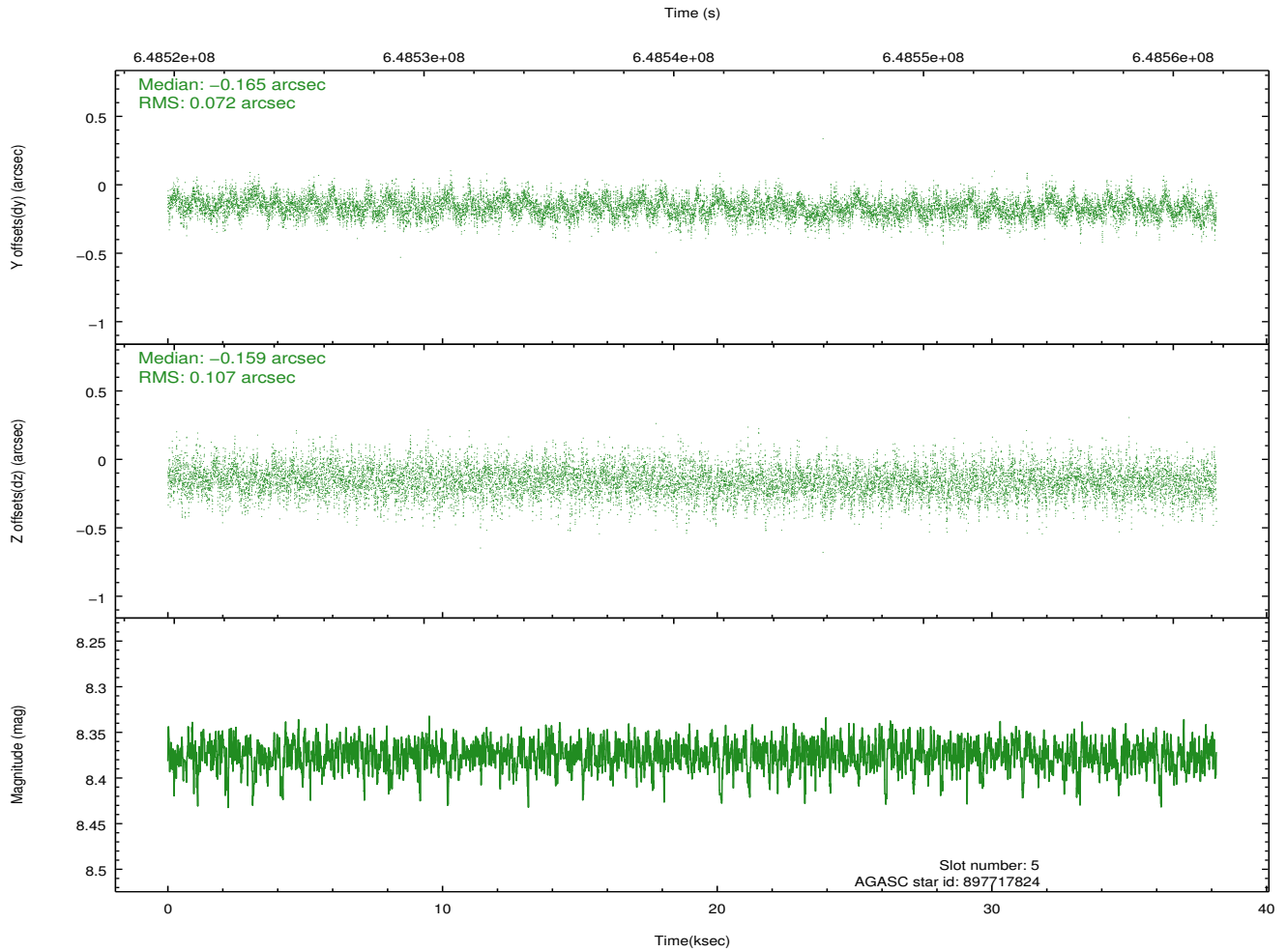
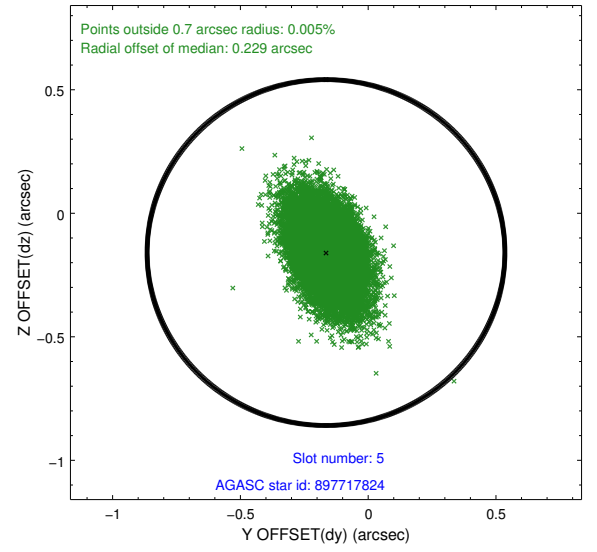
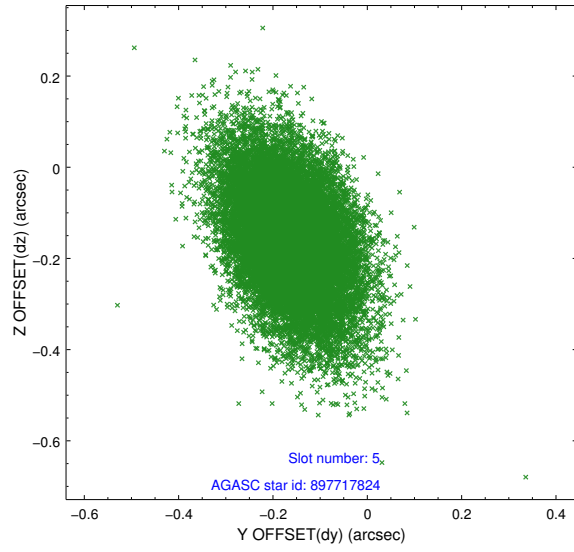
2.4.1 Slot 3



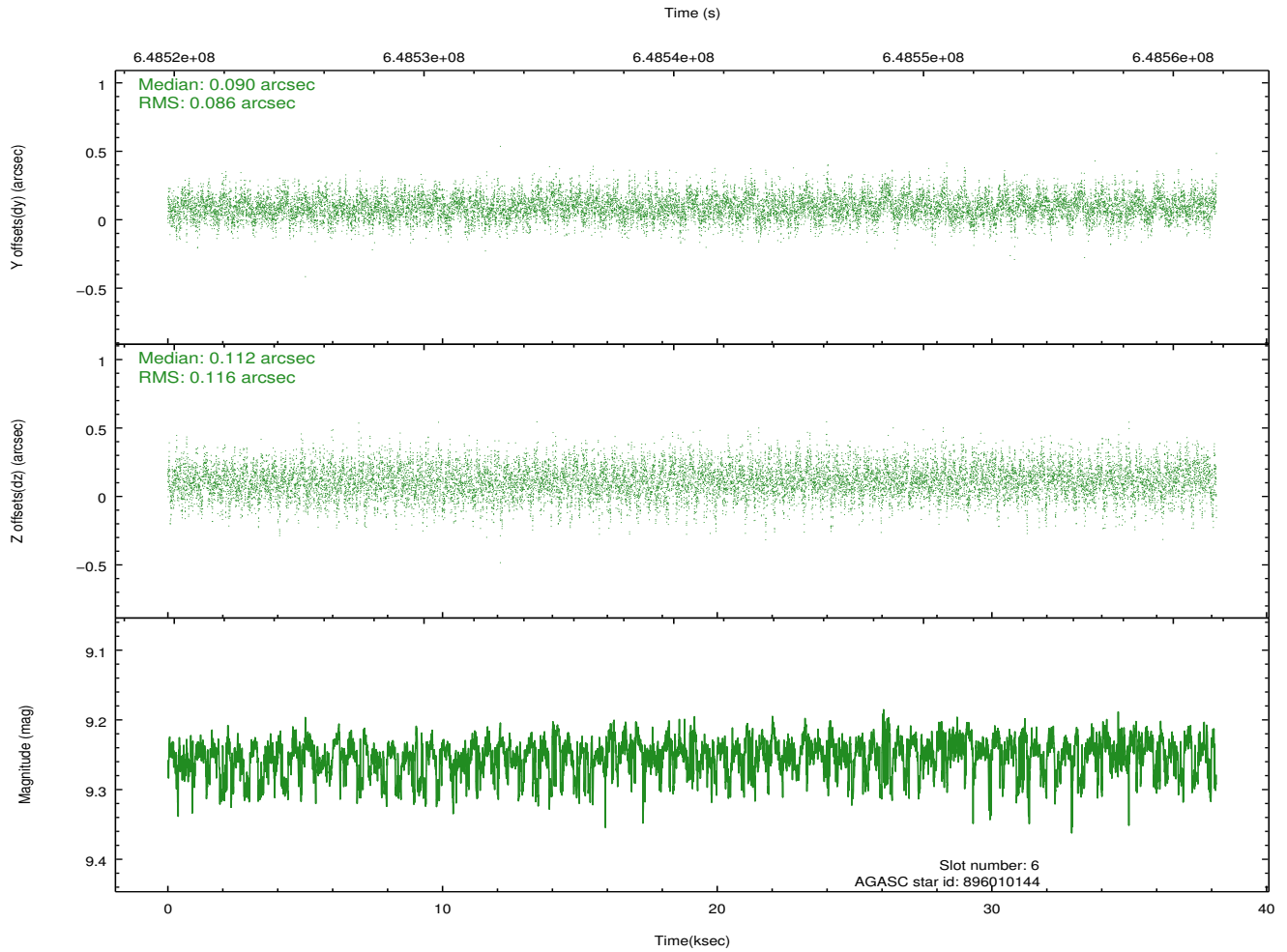
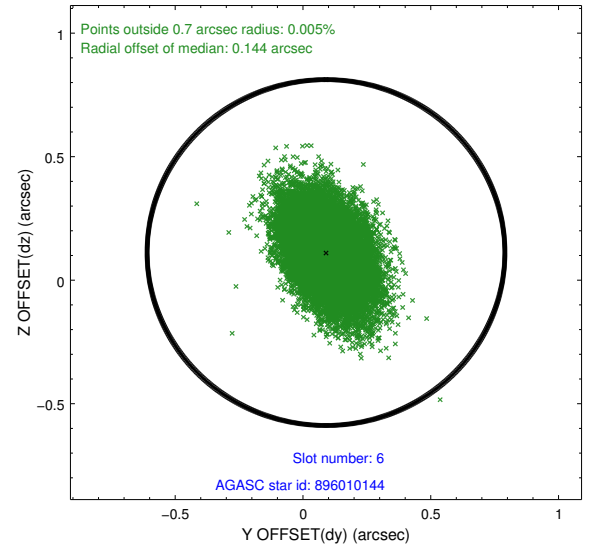
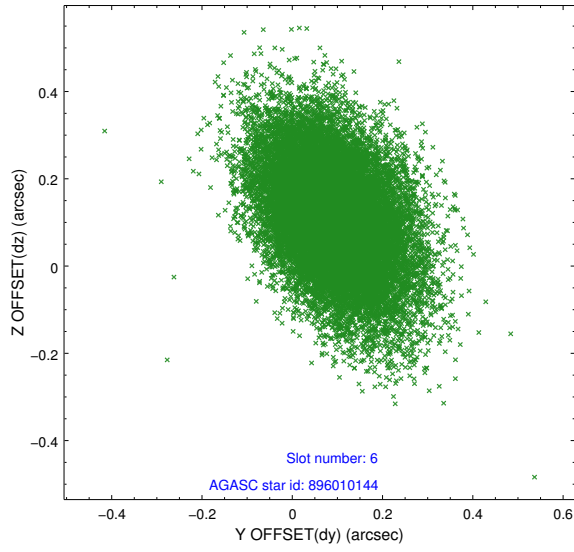
2.4.2 Slot 4



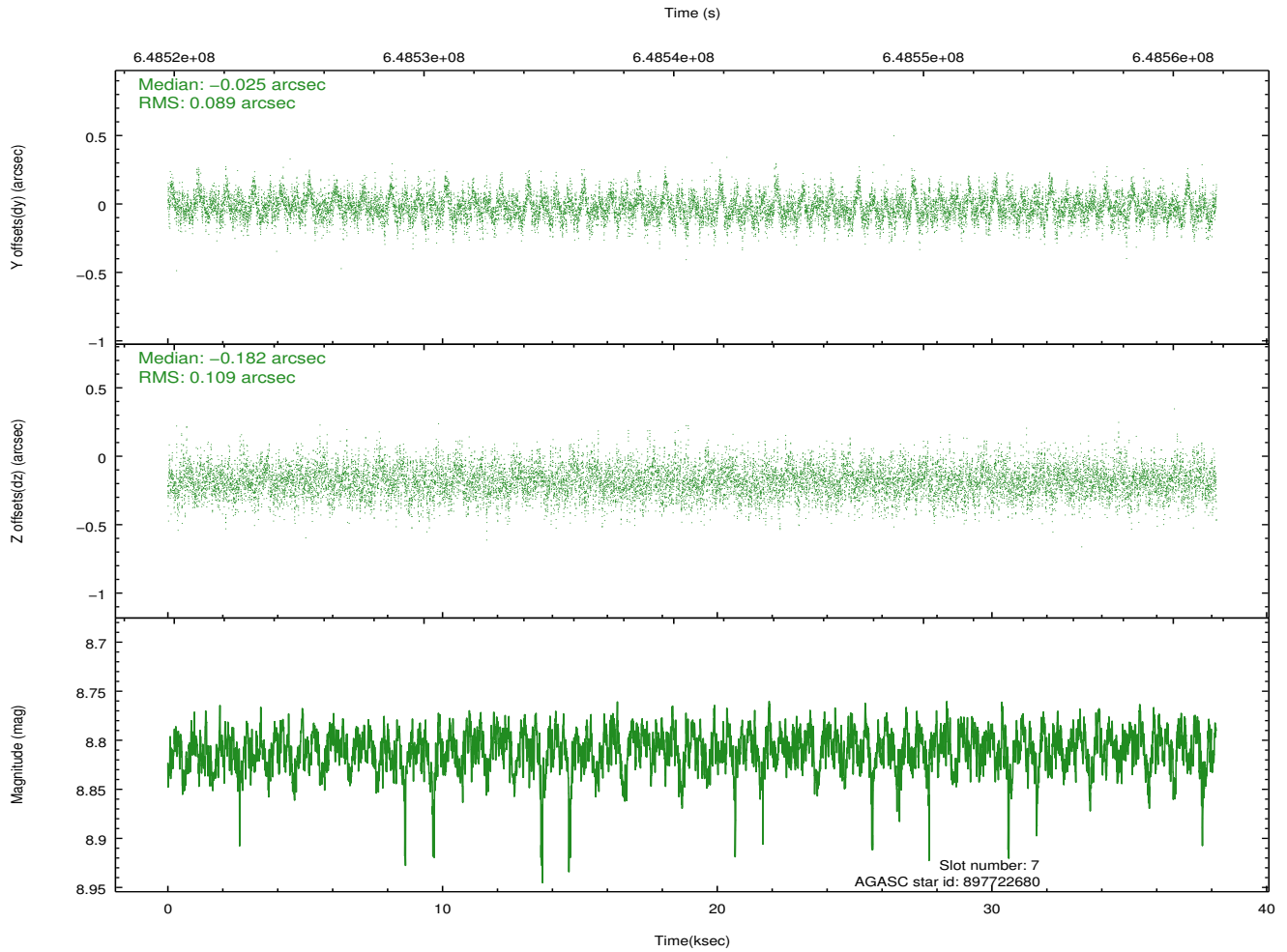
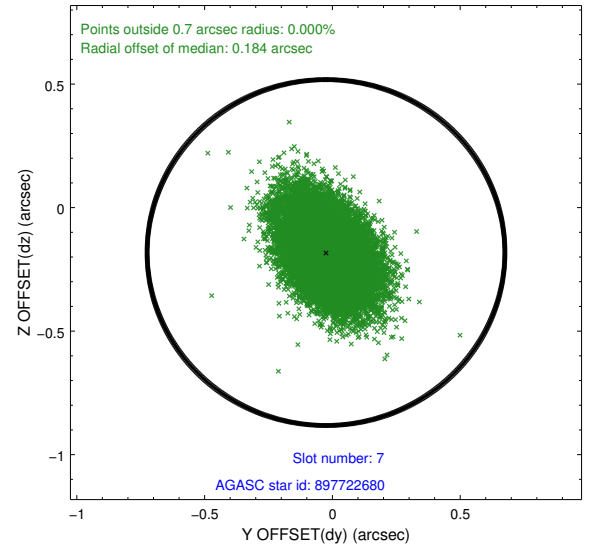
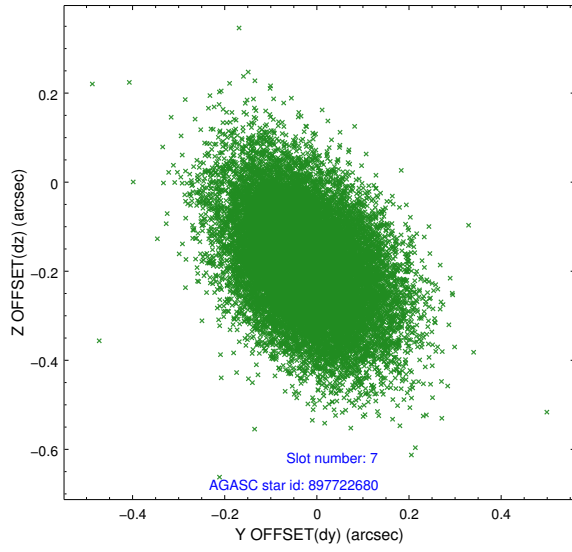
2.4.3 Slot 5



2.4.4 Slot 6

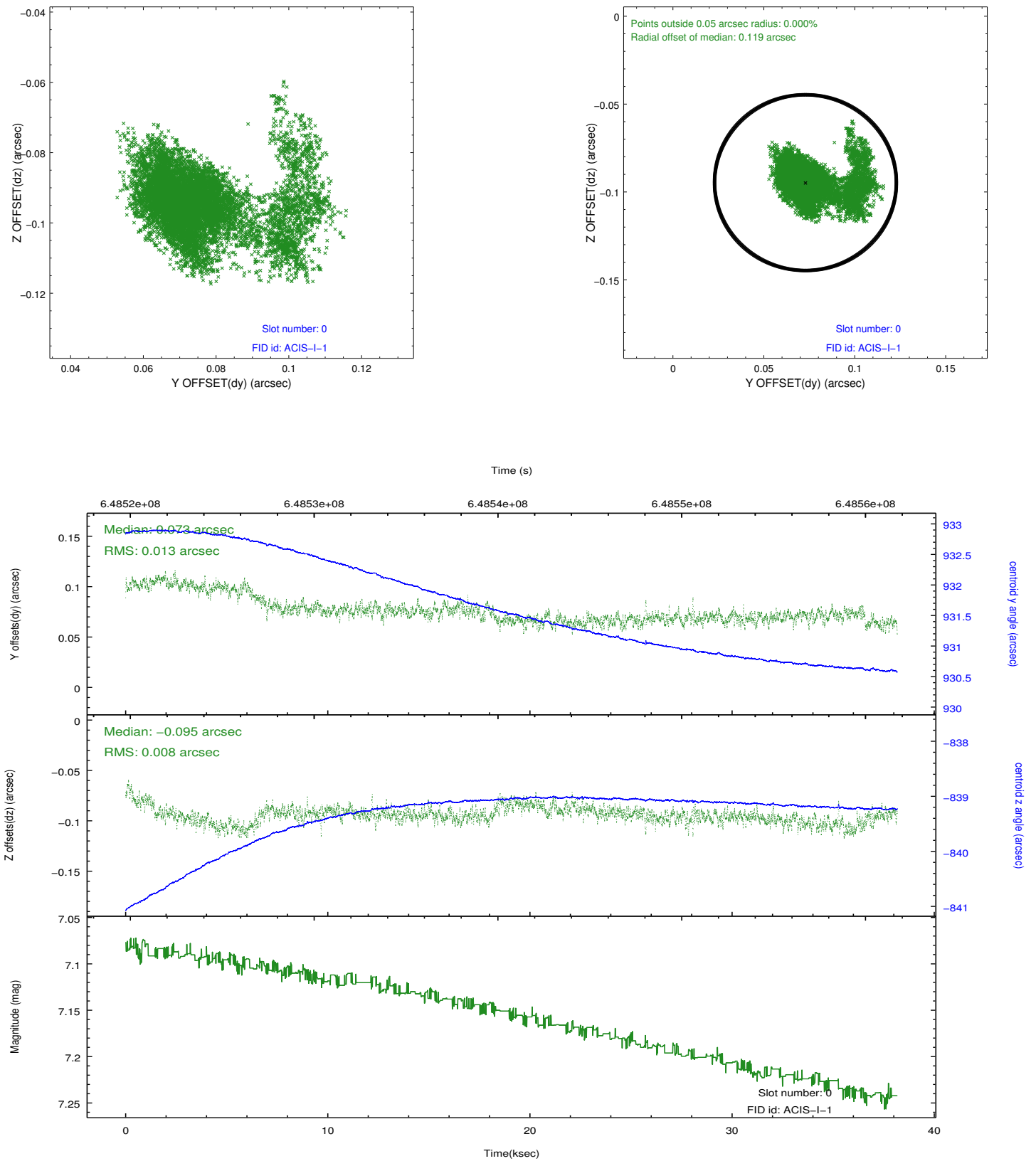


2.4.5 Slot 7

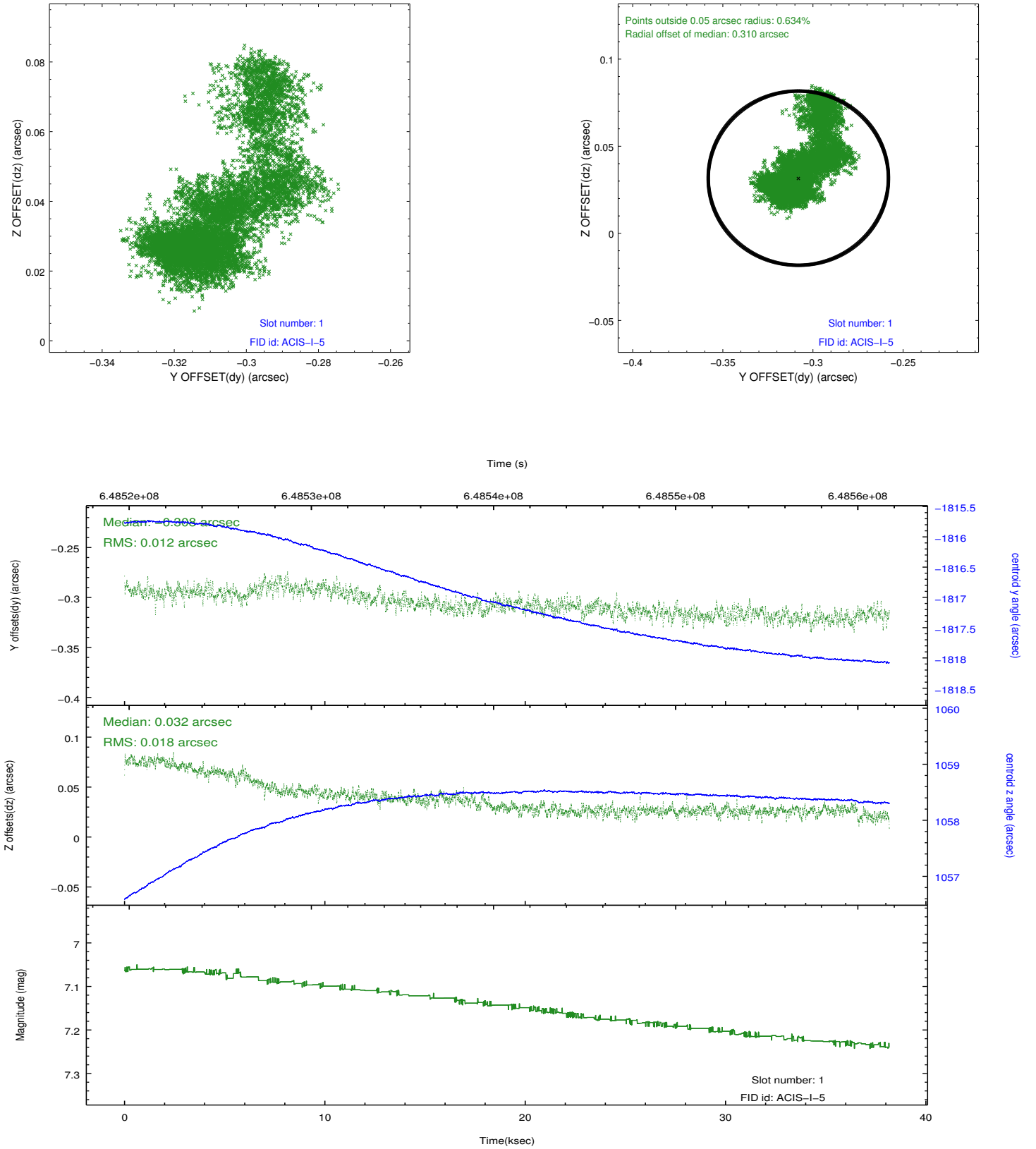


2.5 FID Slots

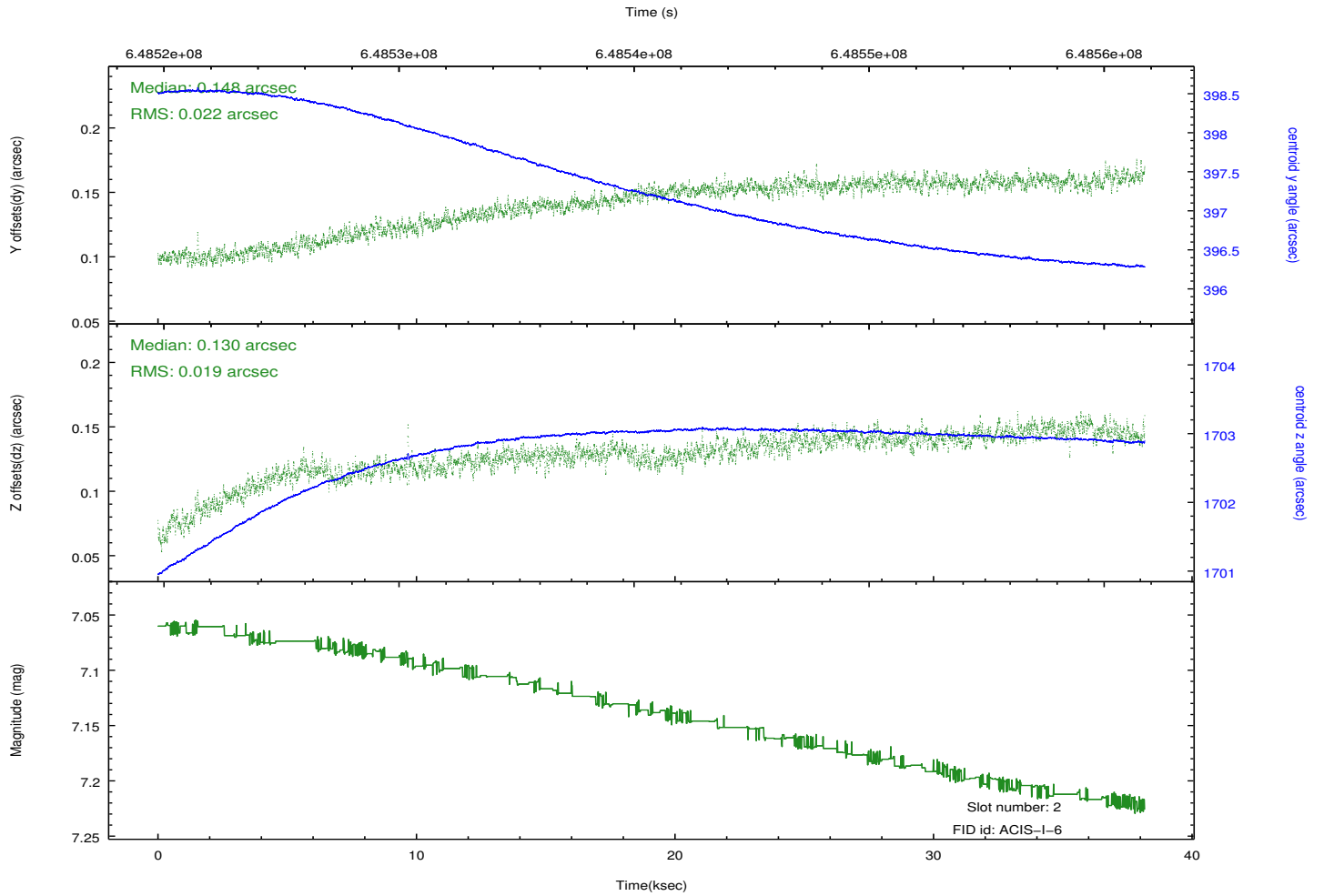
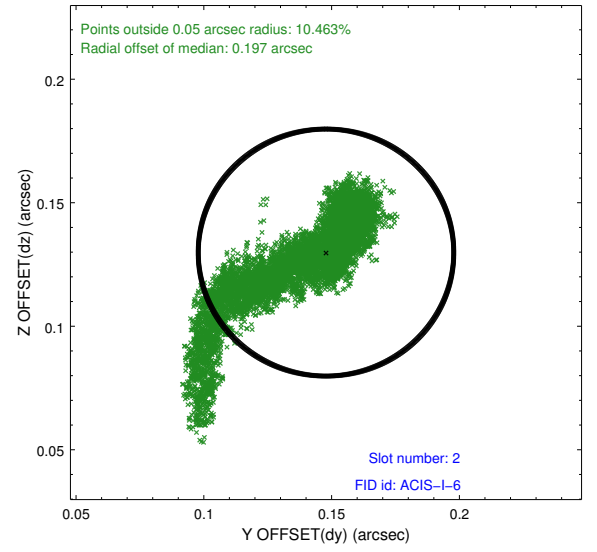
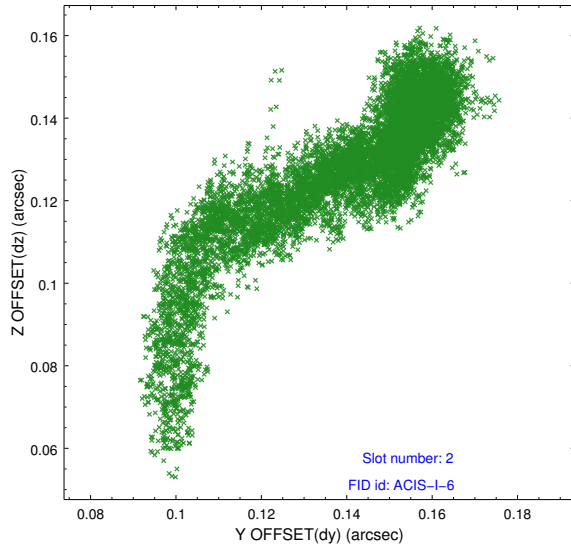
2.5.1 Slot 0



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)	2018.07.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.079456130147

A.2 Comments