

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3838 - L2 Version 3
Chandra X-Ray Center

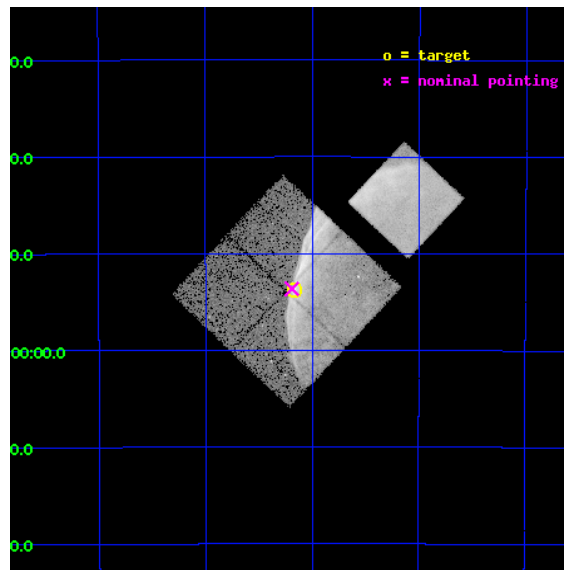
L2 Processing Date : Oct 26 2012

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1 Front

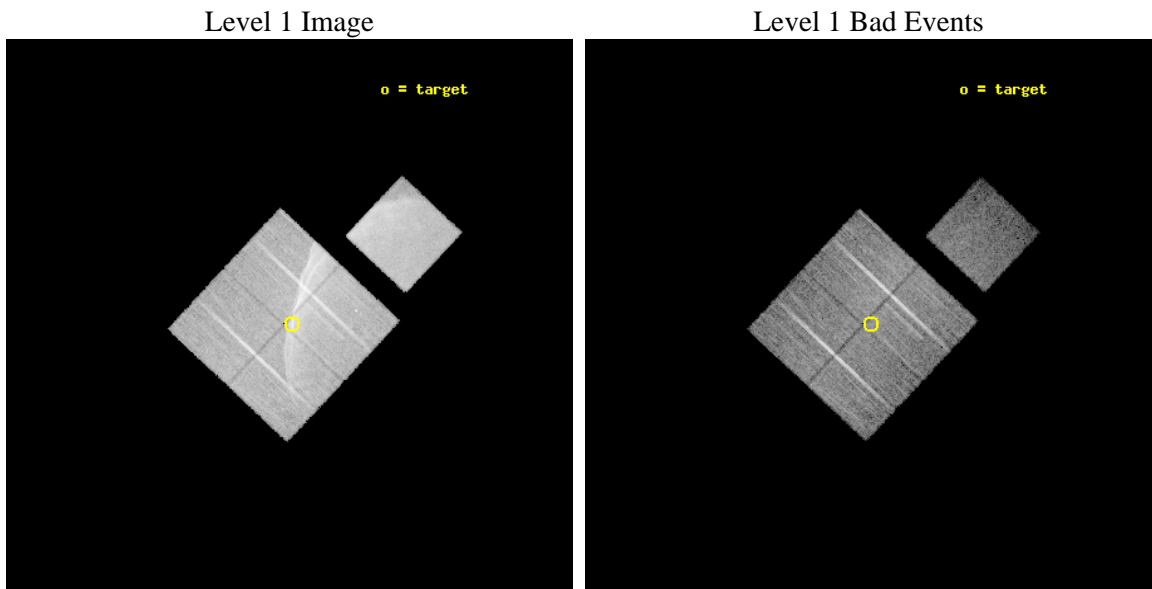
seq_num	500317	Sequence number
obs_id	3838	Observation id
title	STUDYING HIGH MACH NUMBER SHOCKS IN YOUNG SUPERNOVA REMNANTS WITH CHANDRA	Proposal title
observer	Prof. John Hughes	Principal investigator
object	SN1006	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	226.041708	Observer's specified target RA [deg]
dec_targ	-41.8958	Observer's specified target Dec [deg]
ra_nom	226.04753567828	Nominal RA [deg]
dec_nom	-41.89418437914	Nominal Dec [deg]
roll_nom	43.212603016939	Nominal Roll [deg]
revision	3	Processing version of data
ontime	20397.99996075	Sum of GTIs [s]
livetime	20131.485074474	Livetime [s]
ontime0	20394.858960599	Sum of GTIs [s]
ontime1	20394.858980536	Sum of GTIs [s]
ontime2	20397.99996075	Sum of GTIs [s]
ontime3	20397.99996075	Sum of GTIs [s]
ontime7	20397.99996075	Sum of GTIs [s]
l2events	248981	Number of level 2 events



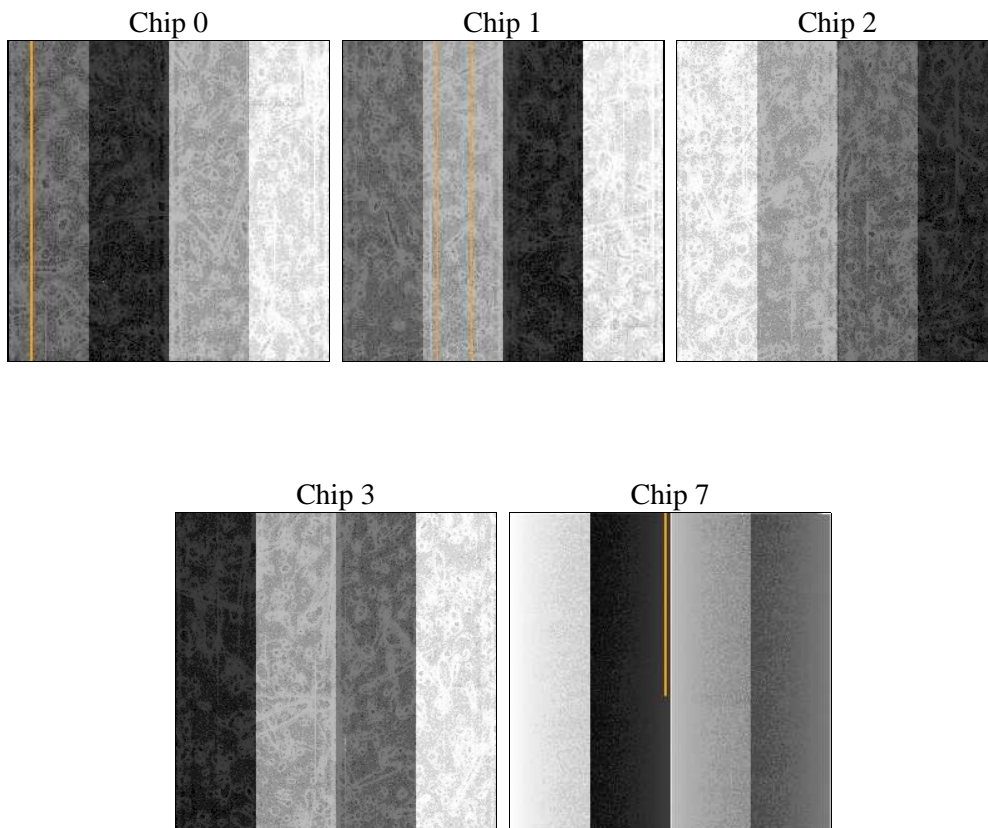
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20280.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	20397.99996075	Sum of GTIs [s]
caldbver	4.5.2	 	ontime0	20394.858960599	Sum of GTIs [s]
date	2012-10-26T11:54:38	Date and time of file creation	ontime1	20394.858980536	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	20397.99996075	Sum of GTIs [s]
			ontime3	20397.99996075	Sum of GTIs [s]
			ontime7	20397.99996075	Sum of GTIs [s]
			l1events	701824	Number of level 1 events

2.1.4 Events

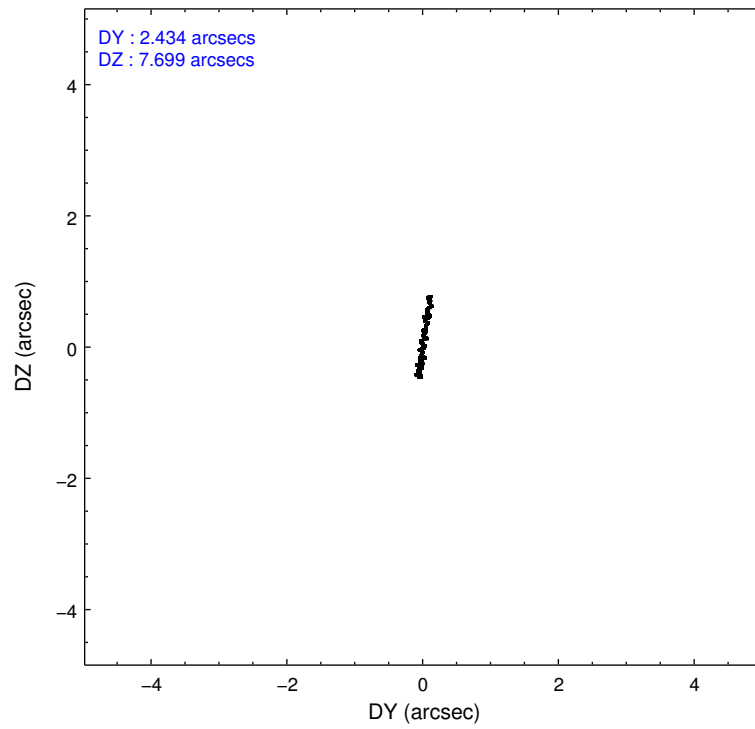
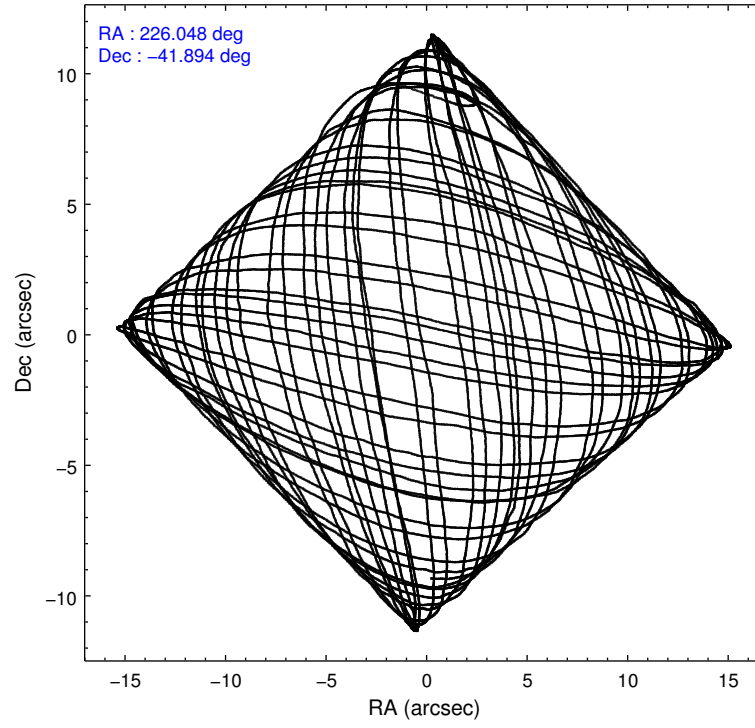
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	100498	127495	160455	150318	163058
rejected events	89736	90450	104995	98995	53811
rejected %	89%	70%	65%	65%	33%

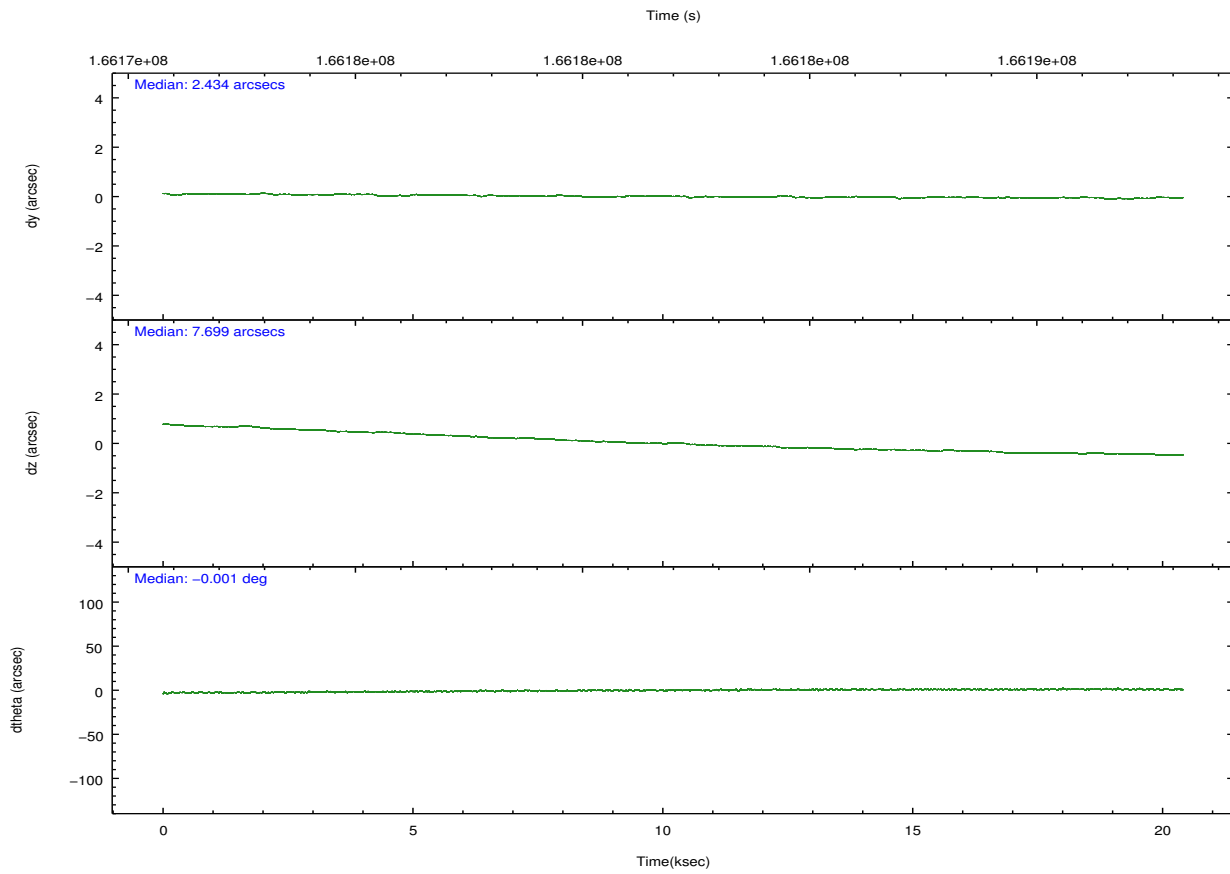
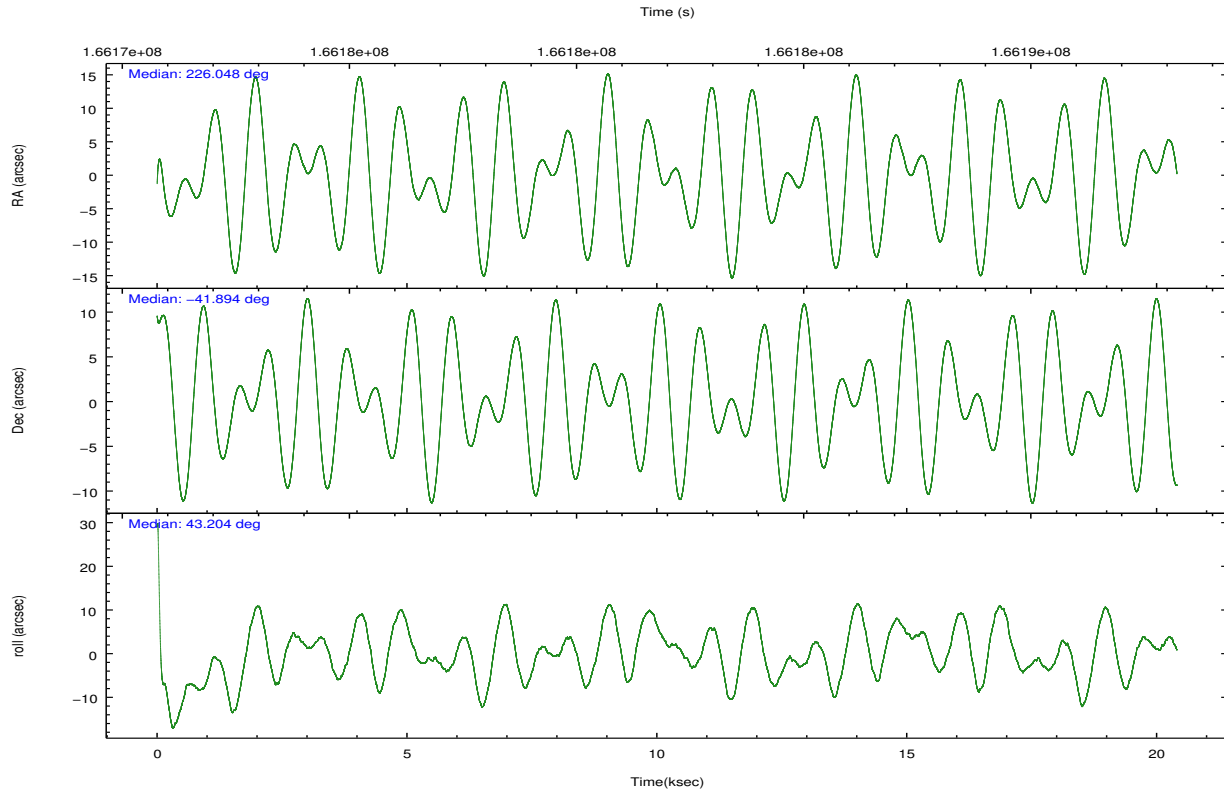
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	4242	27179	43185	40804	26686
	4%	21%	26%	27%	16%
grade 1 events	53	126	250	232	80
	0%	0%	0%	0%	0%
grade 2 events	2358	4260	6178	5092	26304
	2%	3%	3%	3%	16%
grade 3 events	1165	1763	2230	1801	11767
	1%	1%	1%	1%	7%
grade 4 events	1130	1805	2211	1869	11612
	1%	1%	1%	1%	7%
grade 5 events	3057	3405	3053	3625	11237
	3%	2%	1%	2%	6%
grade 6 events	1984	2445	2353	2227	33960
	1%	1%	1%	1%	20%
grade 7 events	86509	86512	100995	94668	41412
	86%	67%	62%	62%	25%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	226.037055	226.0475356782844	Subarray requested	NONE	NONE
[deg] Pointing Dec	-41.920440	-41.89418437914037	Alternating exposures requested	N	N
[deg] Pointing Roll	42.996894	43.2126030169394	[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)	166171919.184000	166170846.99536			
Observation start date	2003-04-08T06:50:55	2003-04-08T06:34:06			
[s] Observation end time (MET)	166192199.184000	166192333.55877			
Observation end date	2003-04-08T12:28:55	2003-04-08T12:32:13			
Read mode	TIMED	TIMED			

2.3 Aspect



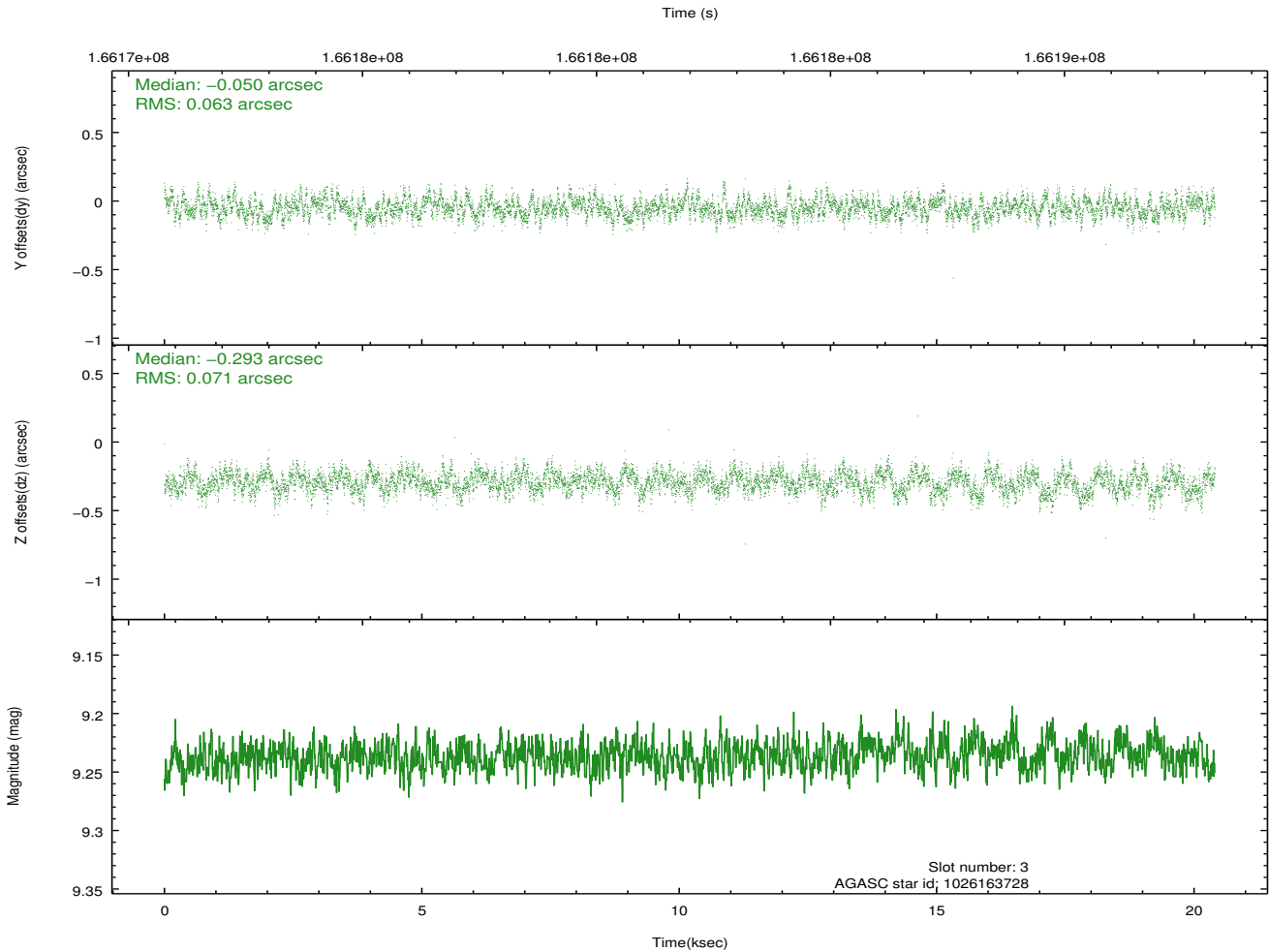
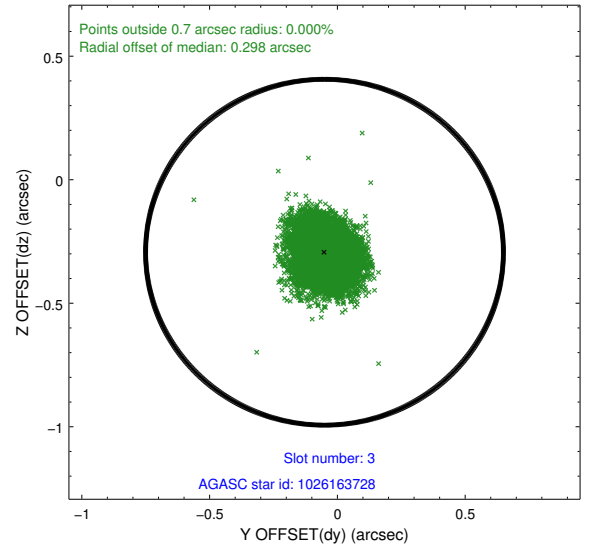
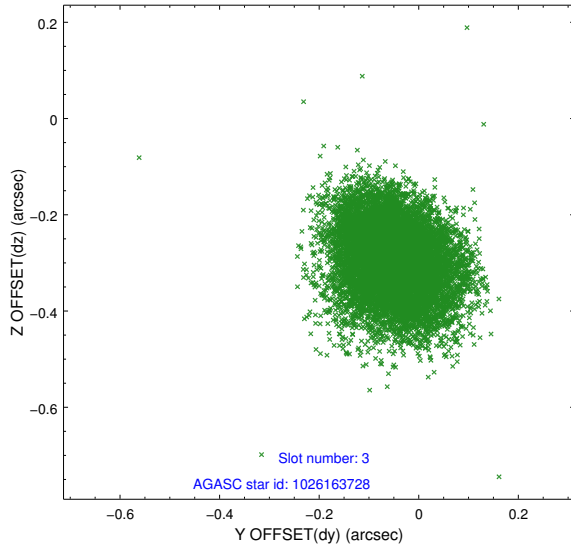


Slot Statistics

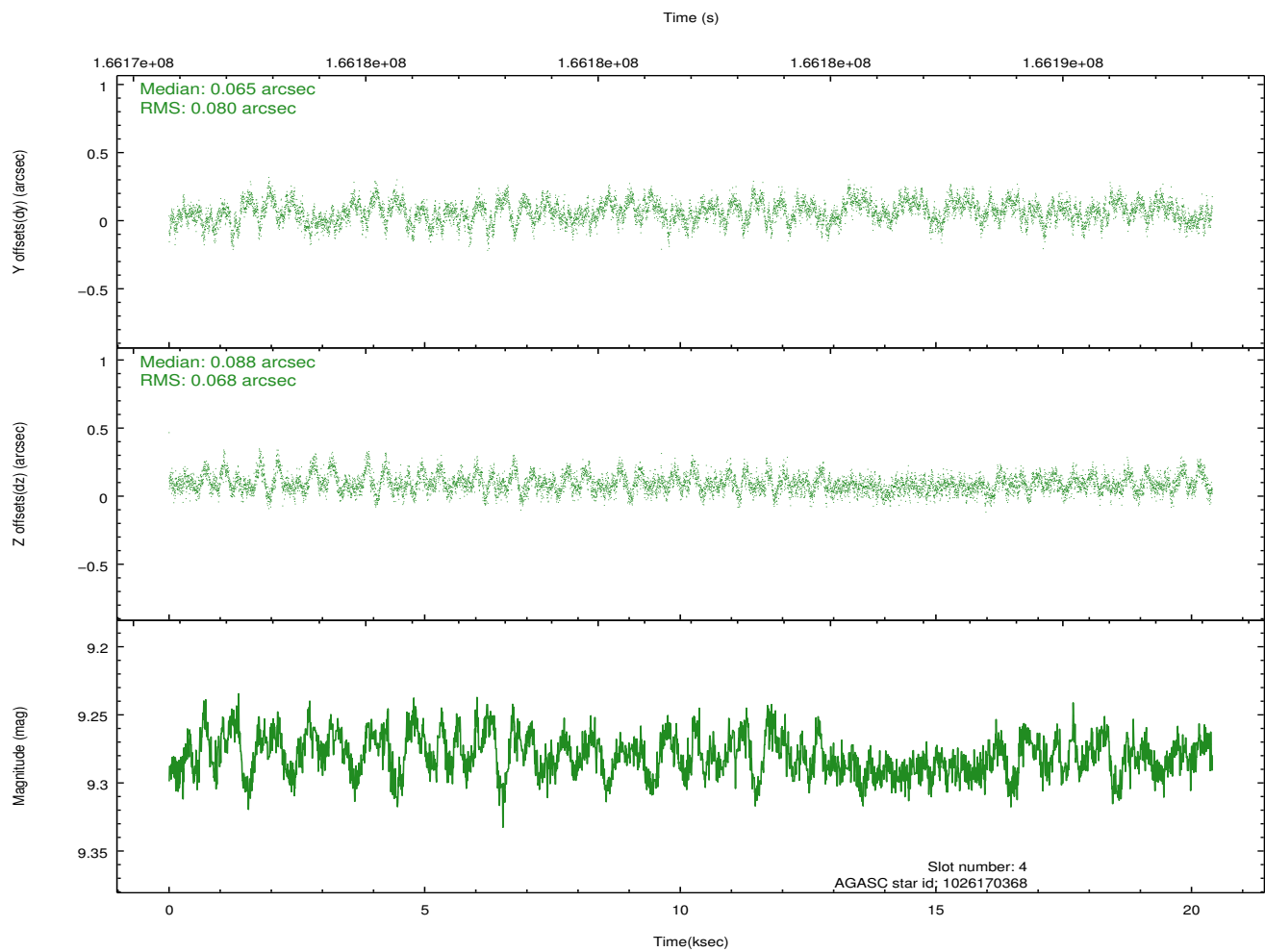
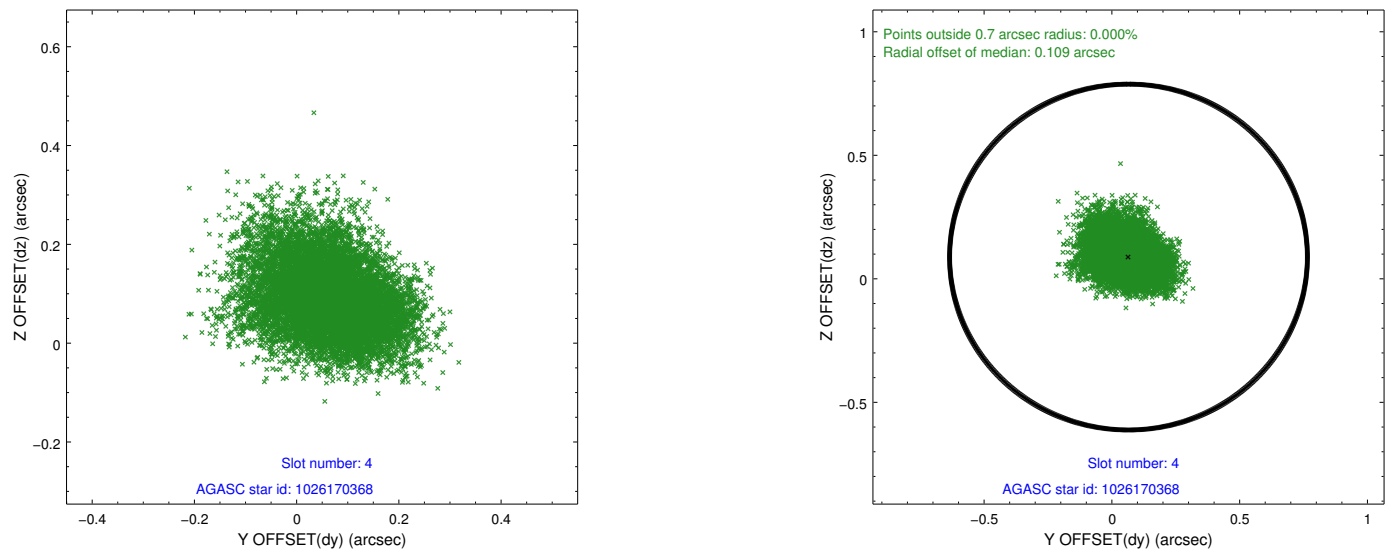
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	4977	0.003	0.029	0.018	0.034	0.000000	0.000000	937.35	-831.14
1	FID	ACIS-I-5	7.24	4977	-0.074	0.051	0.009	0.019	0.000000	0.000000	-1810.70	1066.31
2	FID	ACIS-I-6	7.26	4977	-0.020	-0.010	0.013	0.022	0.000000	0.000000	402.72	1710.93
3	GUIDE	1026163728	9.24	9949	-0.050	-0.293	0.102	0.162	225.377558	-41.568164	-439.12	2133.63
4	GUIDE	1026170368	9.28	9950	0.065	0.088	0.111	0.183	225.763429	-42.291155	-1443.46	-479.83
5	GUIDE	1026183784	9.17	9886	-0.126	0.029	0.080	0.129	226.363370	-41.841537	832.75	-390.13
6	GUIDE	1026162968	9.45	9952	0.067	0.100	0.081	0.134	225.835985	-42.679852	-2253.43	-1637.33
7	GUIDE	1026185256	9.33	9948	0.047	0.074	0.099	0.154	226.095983	-42.018643	-125.66	-366.09

2.4 Star Slots

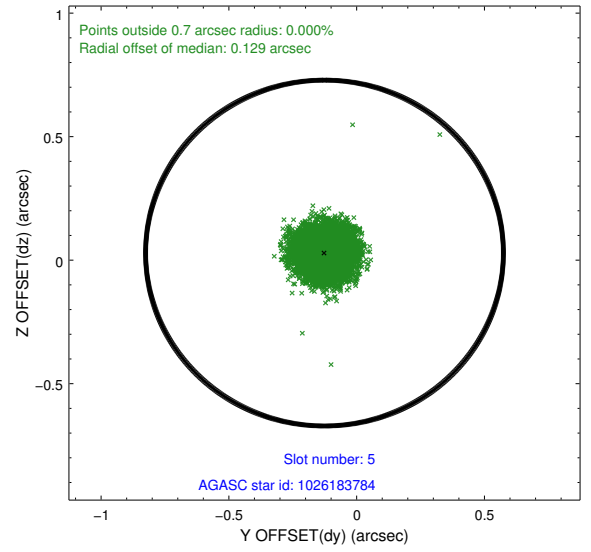
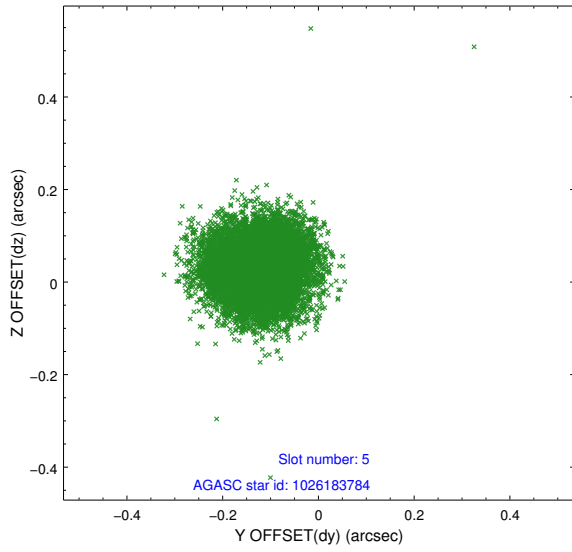
2.4.1 Slot 3



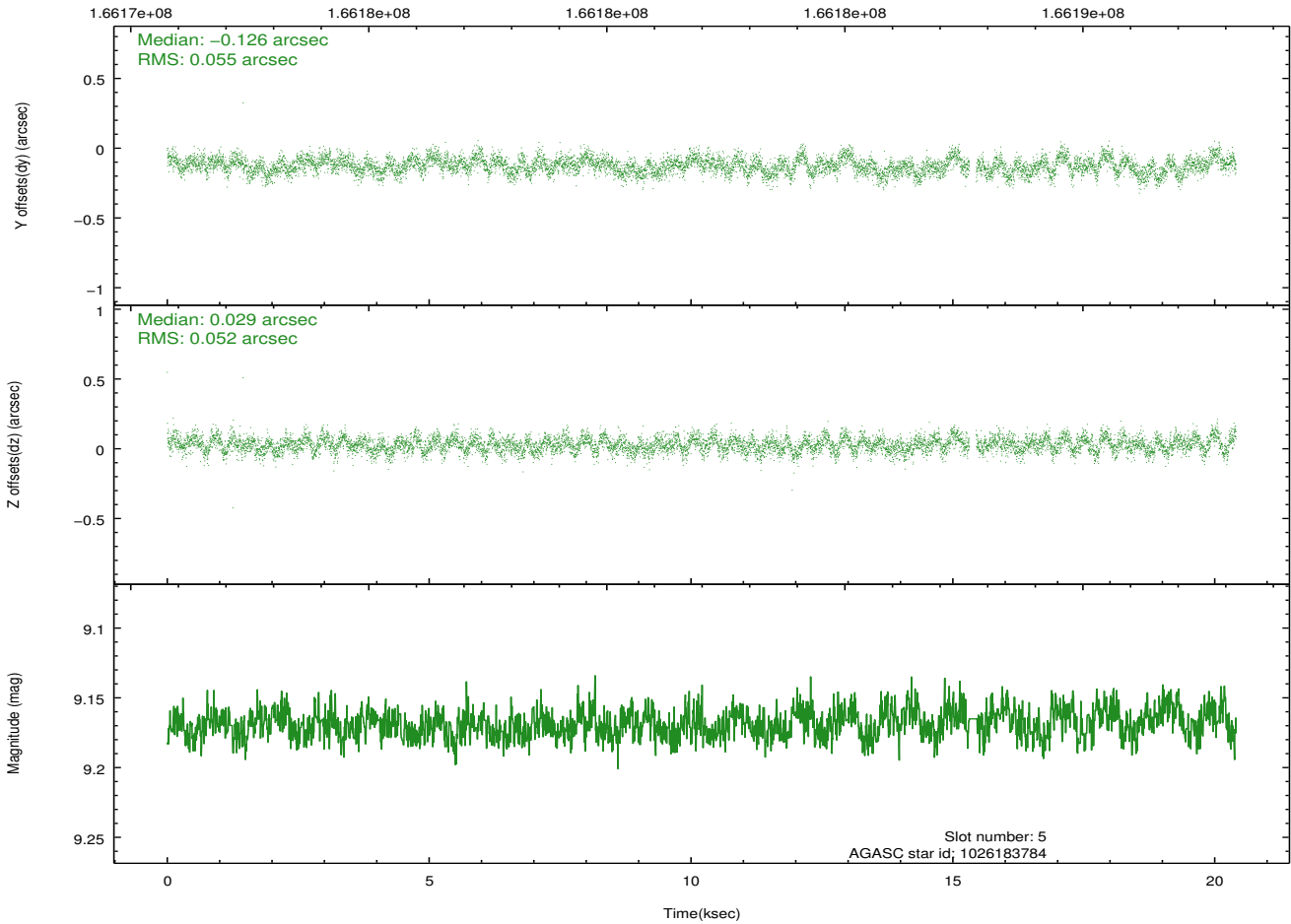
2.4.2 Slot 4



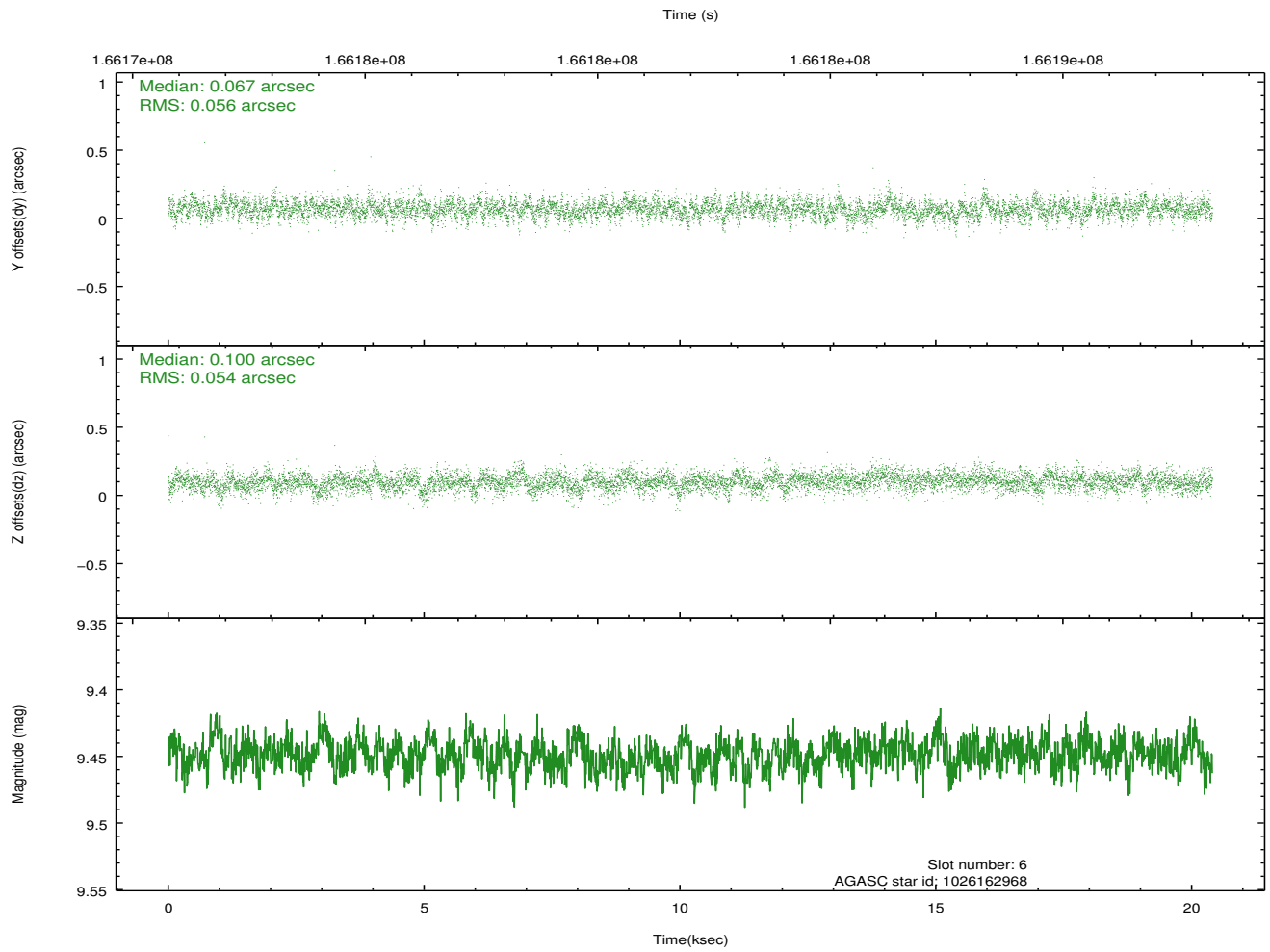
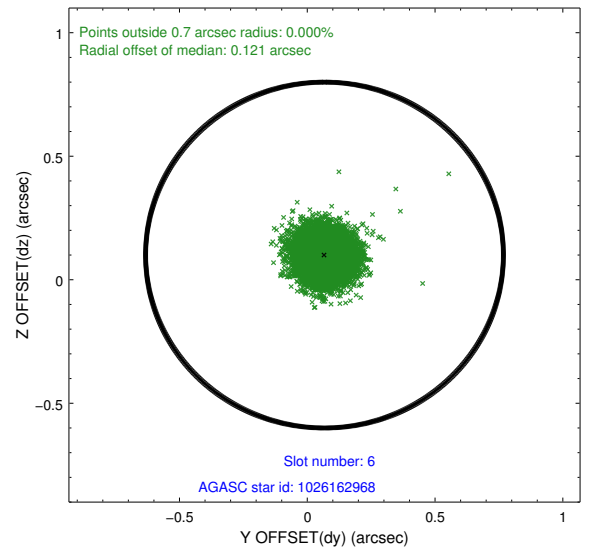
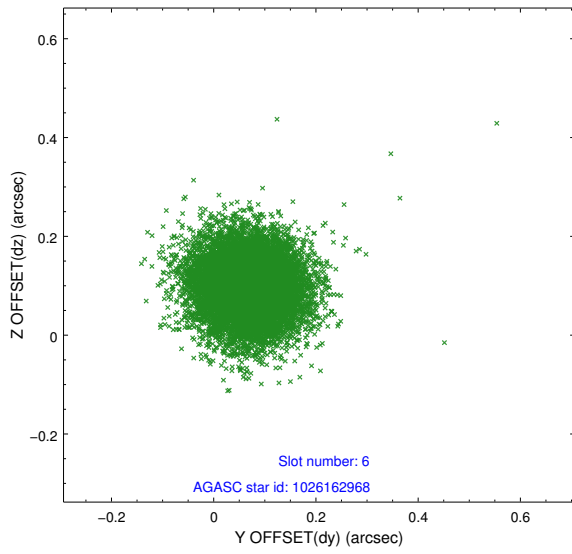
2.4.3 Slot 5



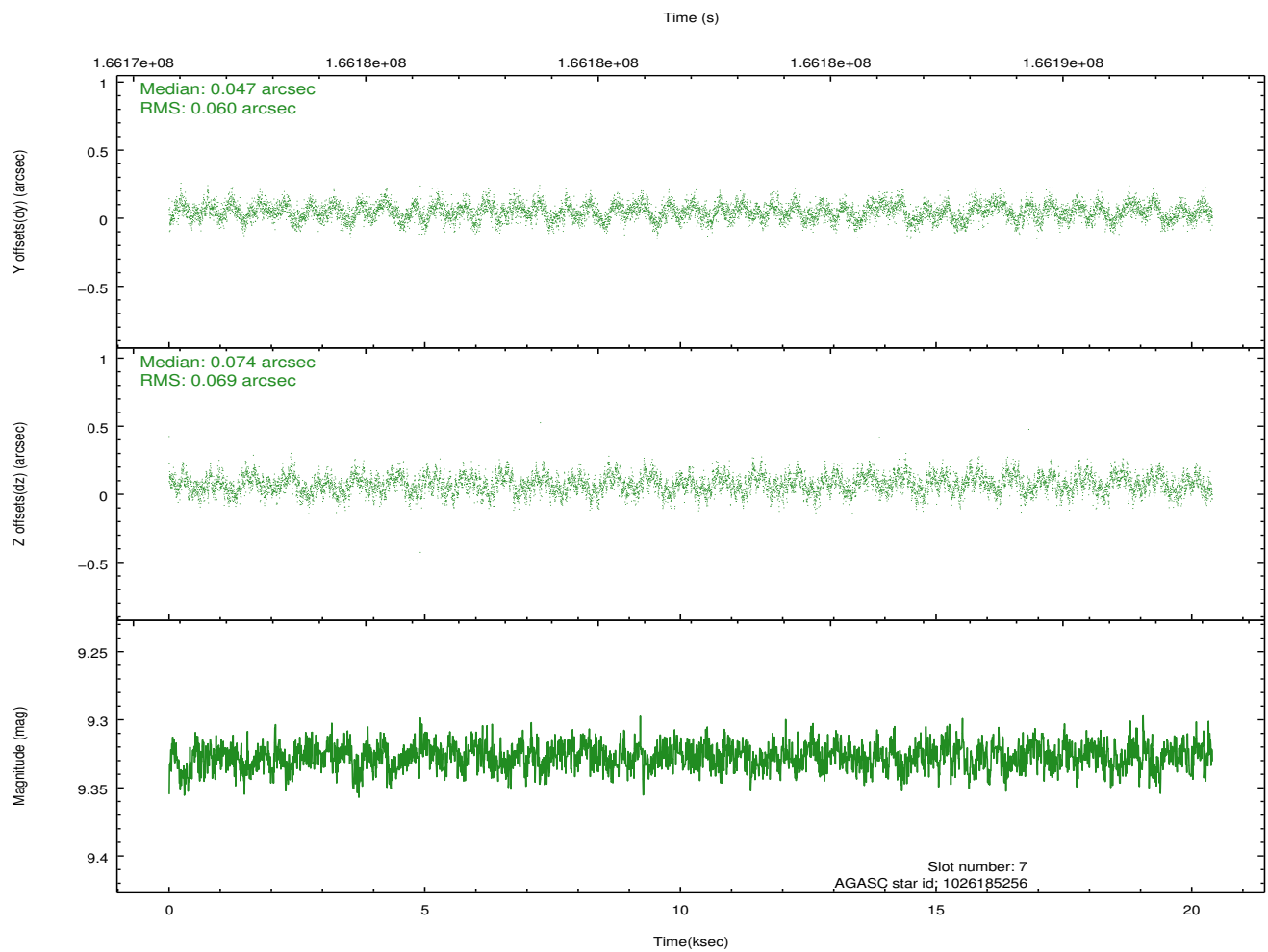
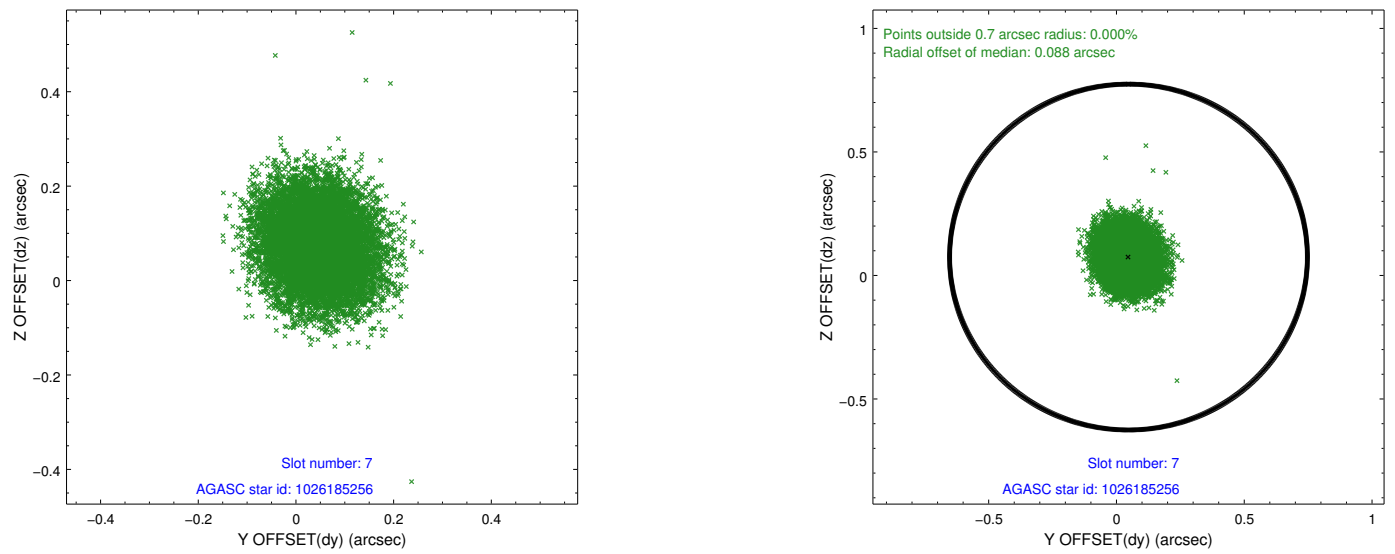
Time (s)



2.4.4 Slot 6

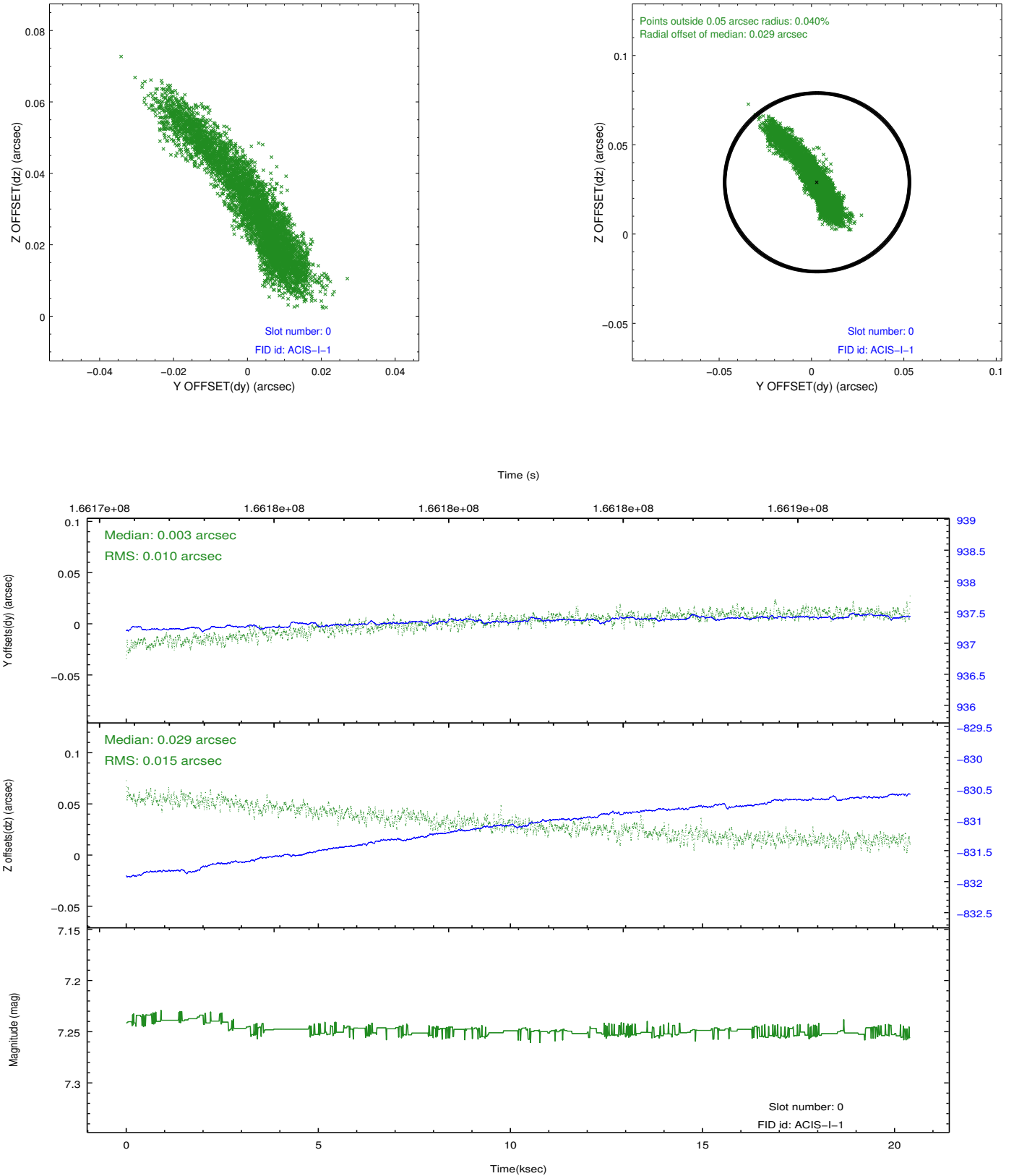


2.4.5 Slot 7

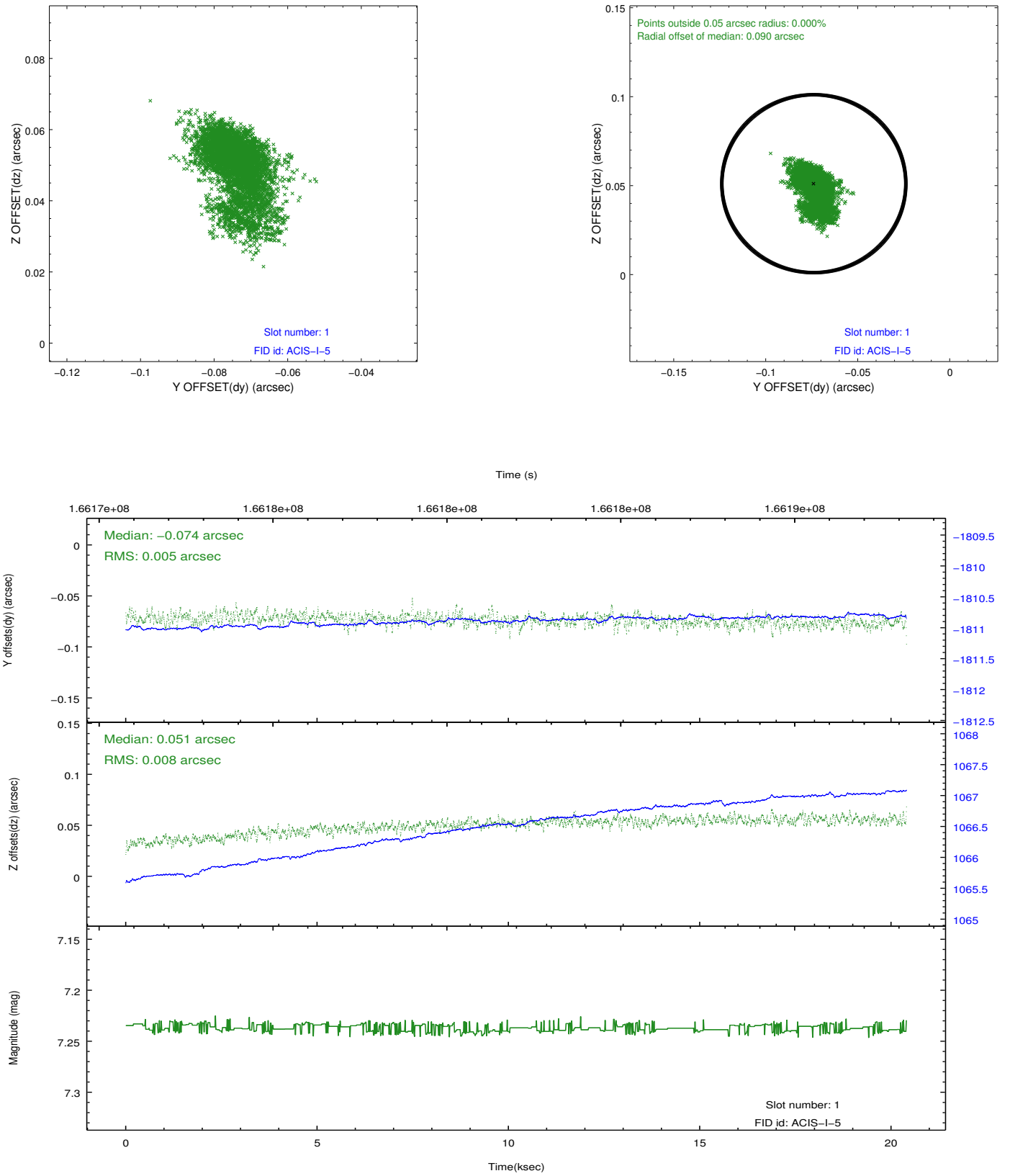


2.5 FID Slots

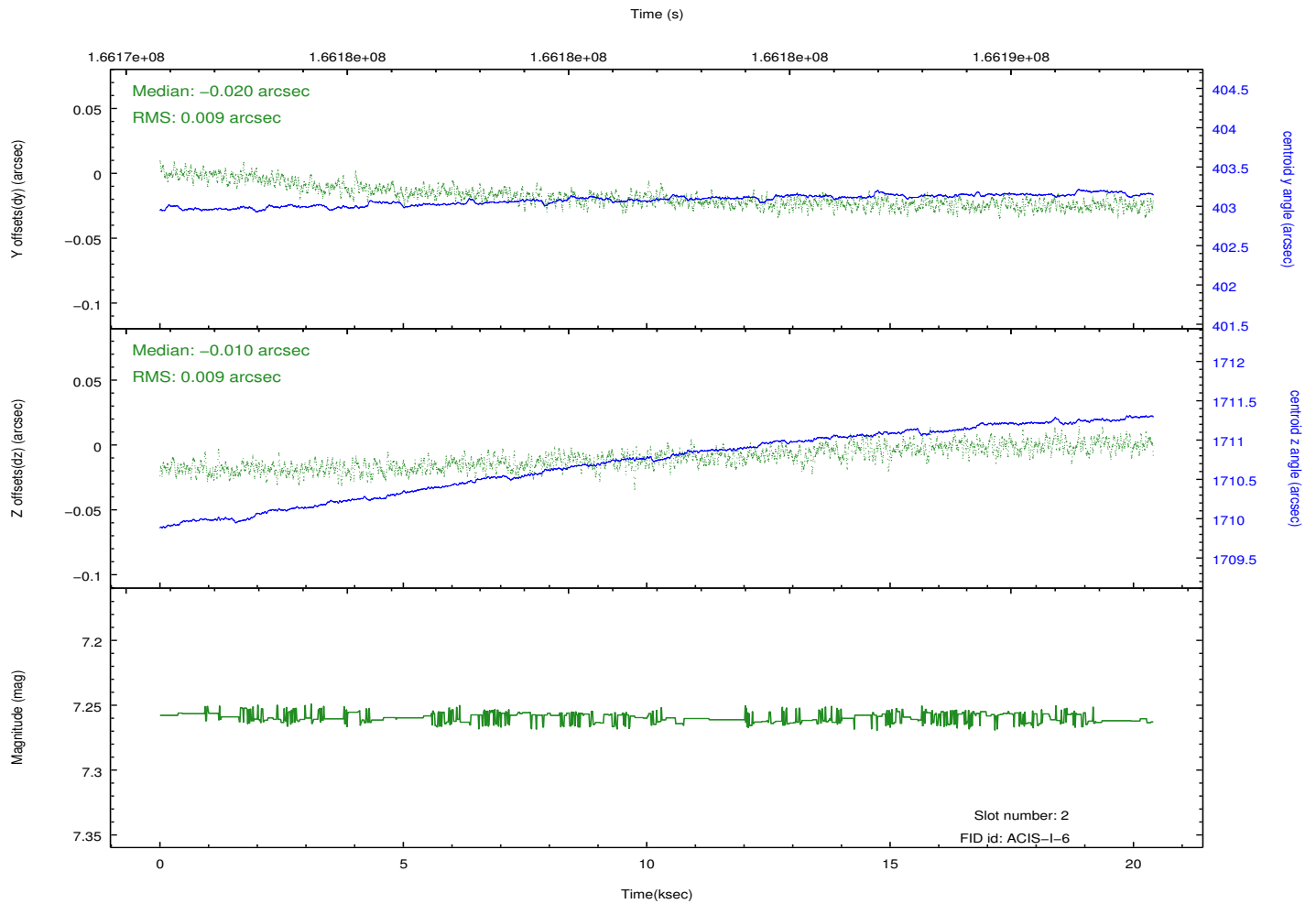
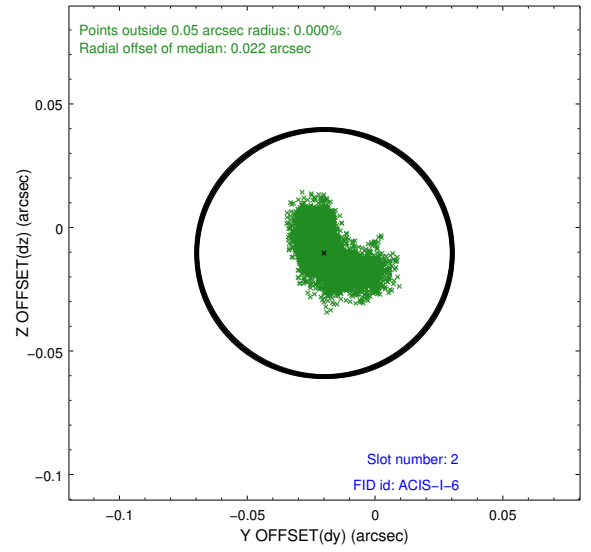
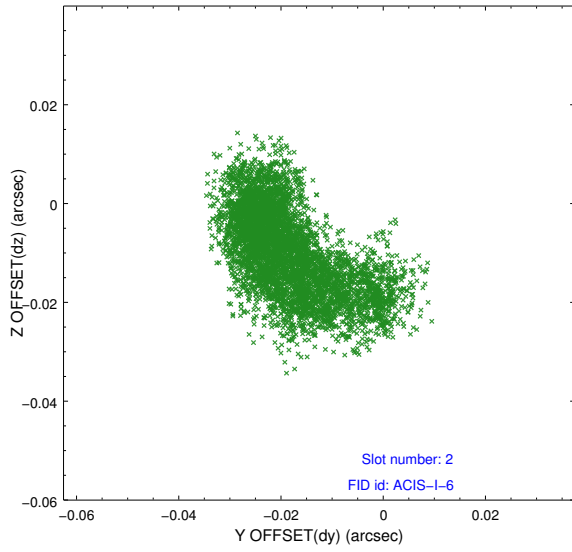
2.5.1 Slot 0



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)	2012.11.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.398

A.2 Comments