

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 20025 - L2 Version 2
Chandra X-Ray Center

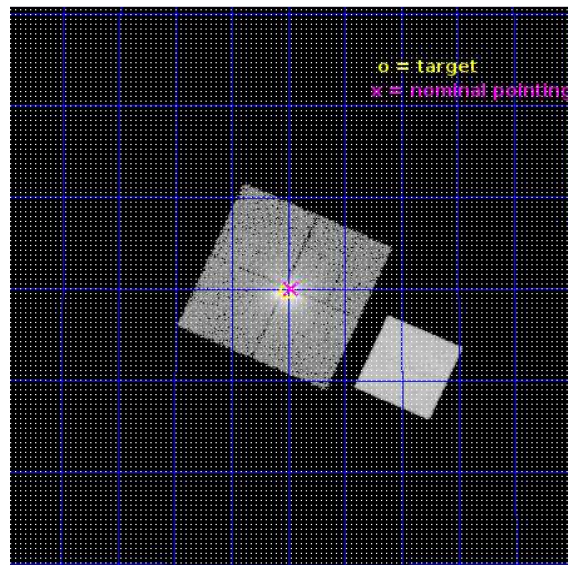
L2 Processing Date : Mar 10 2017

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1 Front

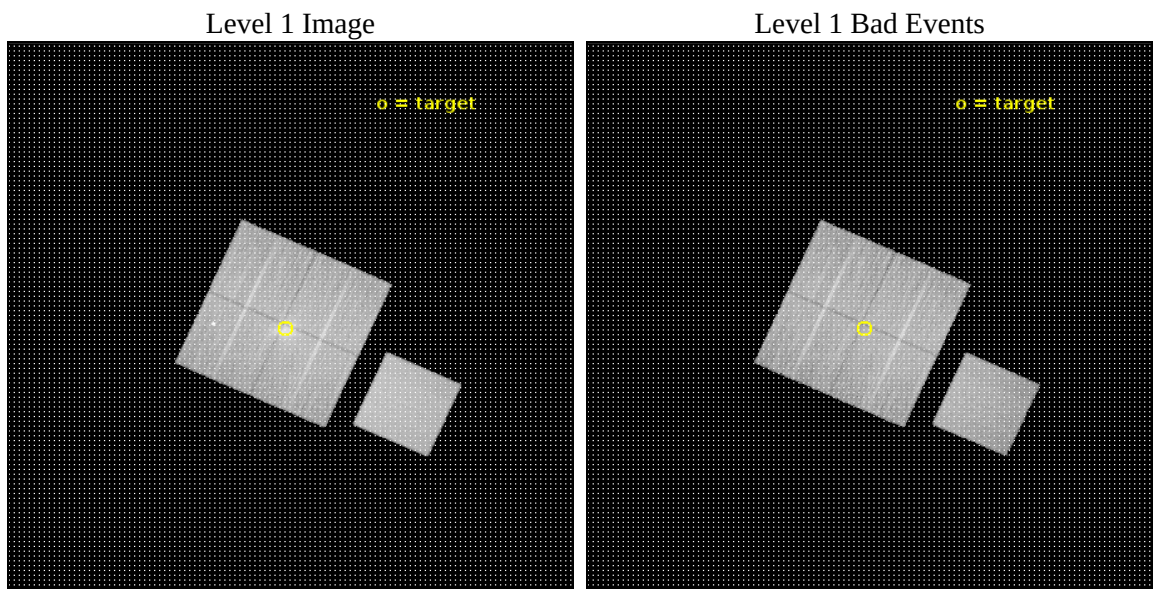
seq_num	801576	Sequence number
obs_id	20025	Observation id
title	Searching for Shock Features in the Radio Halo Cluster Abell 1914	
observer	Jimmy Irwin	Principal investigator
object	Abell 1914	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.501667	Observer's specified target RA [deg]
dec_targ	37.828056	Observer's specified target Dec [deg]
ra_nom	216.49301314135	Nominal RA [deg]
dec_nom	37.834273888733	Nominal Dec [deg]
roll_nom	114.21400954427	Nominal Roll [deg]
revision	2	Processing version of data
ontime	21963.417948246	Sum of GTIs [s]
livetime	21676.449723519	Livetime [s]
ontime0	21969.700169086	Sum of GTIs [s]
ontime1	21969.700169086	Sum of GTIs [s]
ontime2	21969.700169086	Sum of GTIs [s]
ontime3	21963.417948246	Sum of GTIs [s]
ontime7	21969.700169086	Sum of GTIs [s]
l2events	171340	Number of level 2 events



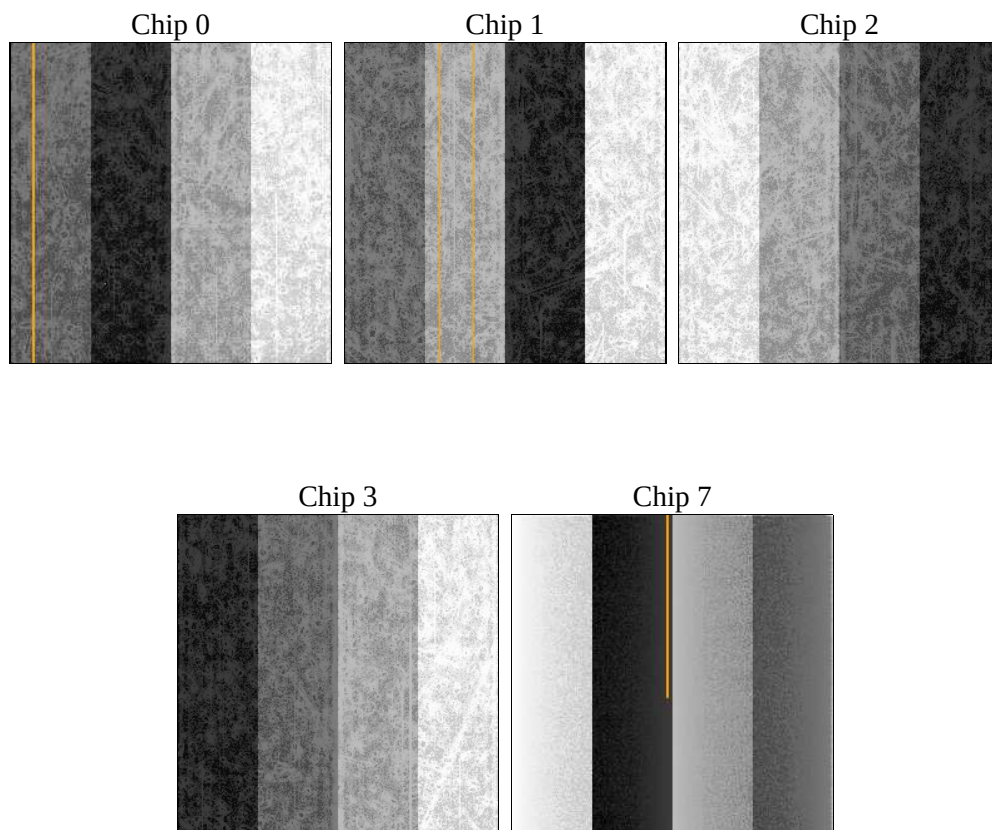
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21924.165000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	21963.417948246	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	21969.700169086	Sum of GTIs [s]
date	2017-03-10T16:55:37	Date and time of file creation	ontime1	21969.700169086	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	21969.700169086	Sum of GTIs [s]
			ontime3	21963.417948246	Sum of GTIs [s]
			ontime7	21969.700169086	Sum of GTIs [s]
			l1events	864176	Number of level 1 events

2.1.4 Events

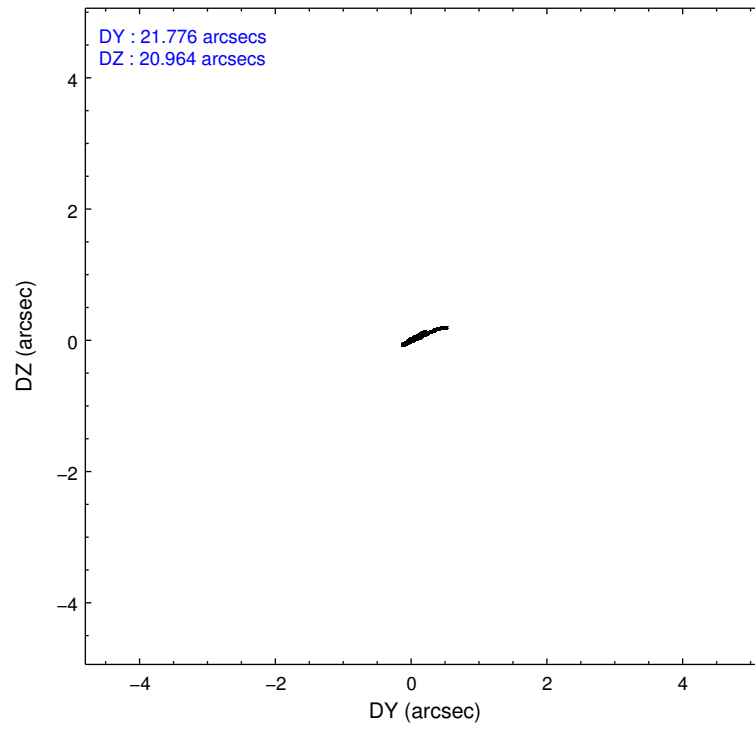
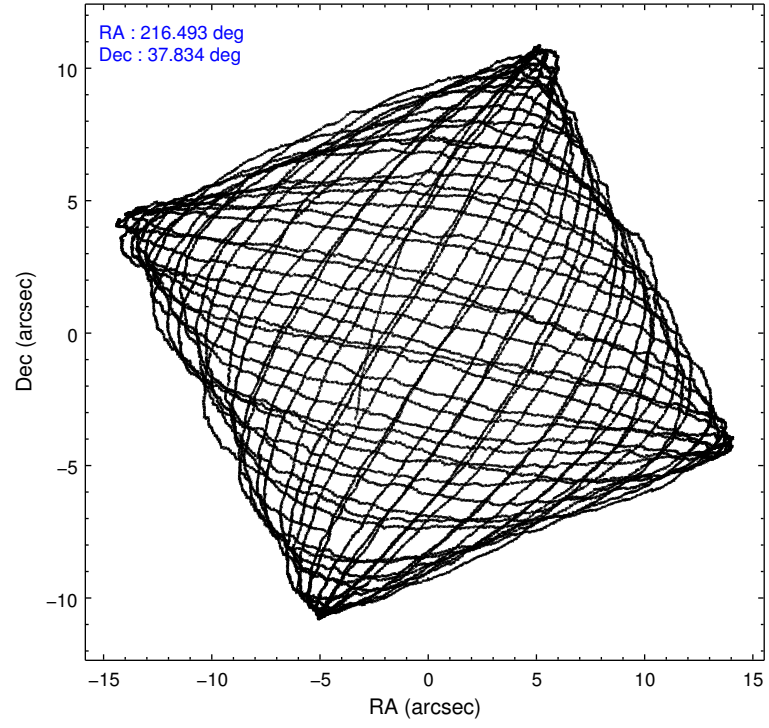
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	153461	161445	172717	176360	200193
rejected events	133832	133256	150488	141838	115505
rejected %	87%	82%	87%	80%	57%

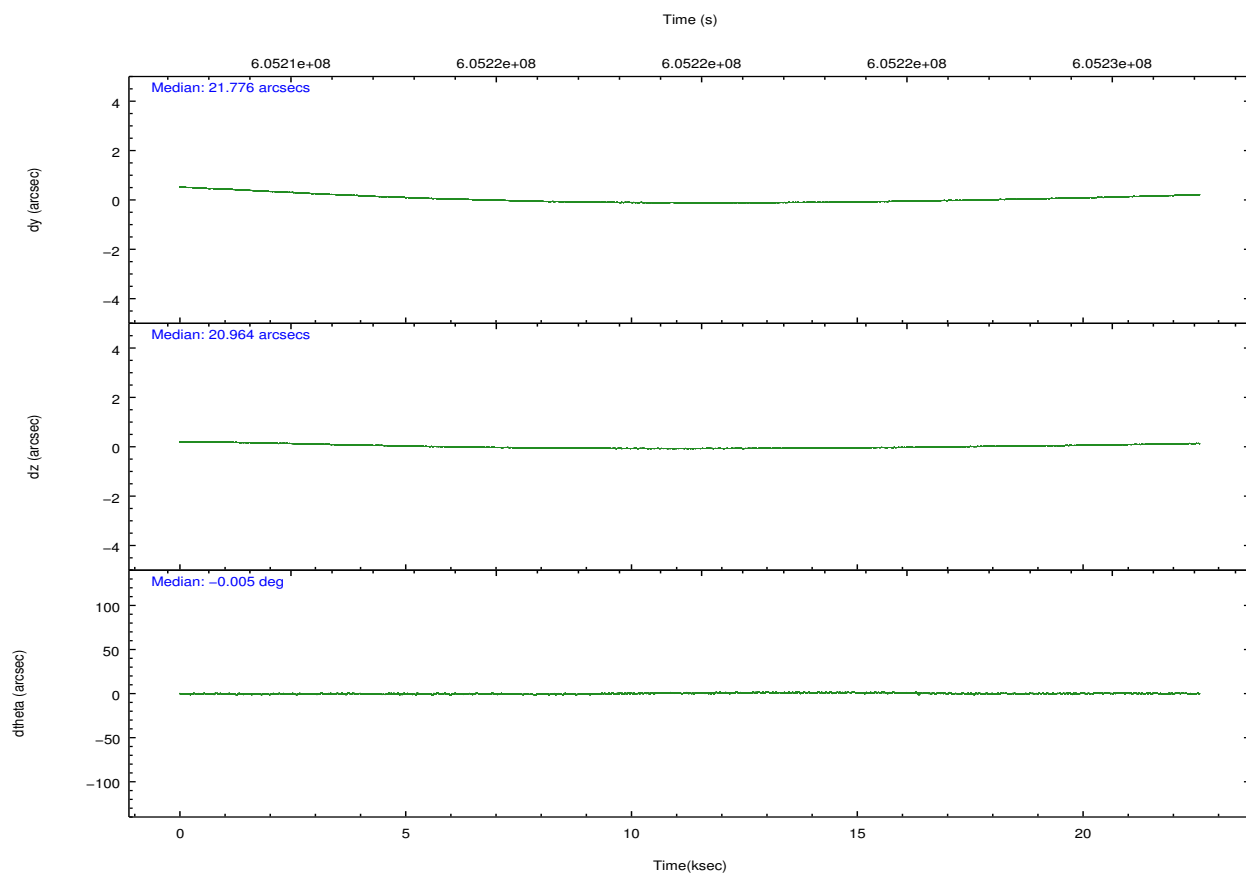
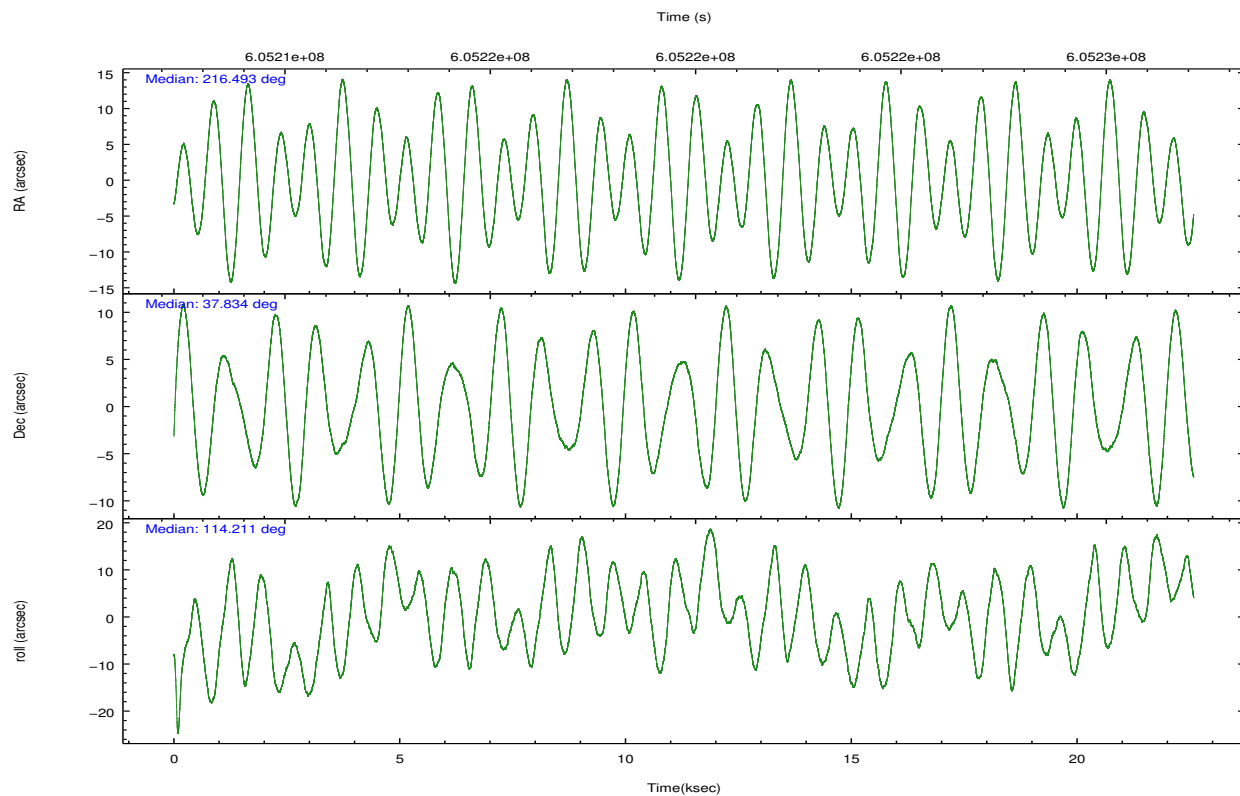
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	7929	13875	10564	20383	6473
	5%	8%	6%	11%	3%
grade 1 events	101	113	131	164	256
	0%	0%	0%	0%	0%
grade 2 events	4629	5721	4534	5454	18100
	3%	3%	2%	3%	9%
grade 3 events	1740	2017	1808	2321	6190
	1%	1%	1%	1%	3%
grade 4 events	1635	1887	1911	2294	6074
	1%	1%	1%	1%	3%
grade 5 events	6209	6477	6038	7419	18789
	4%	4%	3%	4%	9%
grade 6 events	3703	4692	3416	4081	47868
	2%	2%	1%	2%	23%
grade 7 events	127515	126663	144315	134244	96443
	83%	78%	83%	76%	48%

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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	216.521441	216.4930131413498	CCD I2 on	Y	Y
[deg] Pointing Dec	37.818191	37.83427388873276	CCD I3 on	Y	Y
[deg] Pointing Roll	113.987872	114.2140095442736	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	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	605209095.184000	605207917.86233	CCD S5 on	N	N
Observation start date	2017-03-06T17:37:06	2017-03-06T17:18:37	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	605231019.184000	605231253.01368	On-chip summing requested	N	N
Observation end date	2017-03-06T23:42:30	2017-03-06T23:47:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



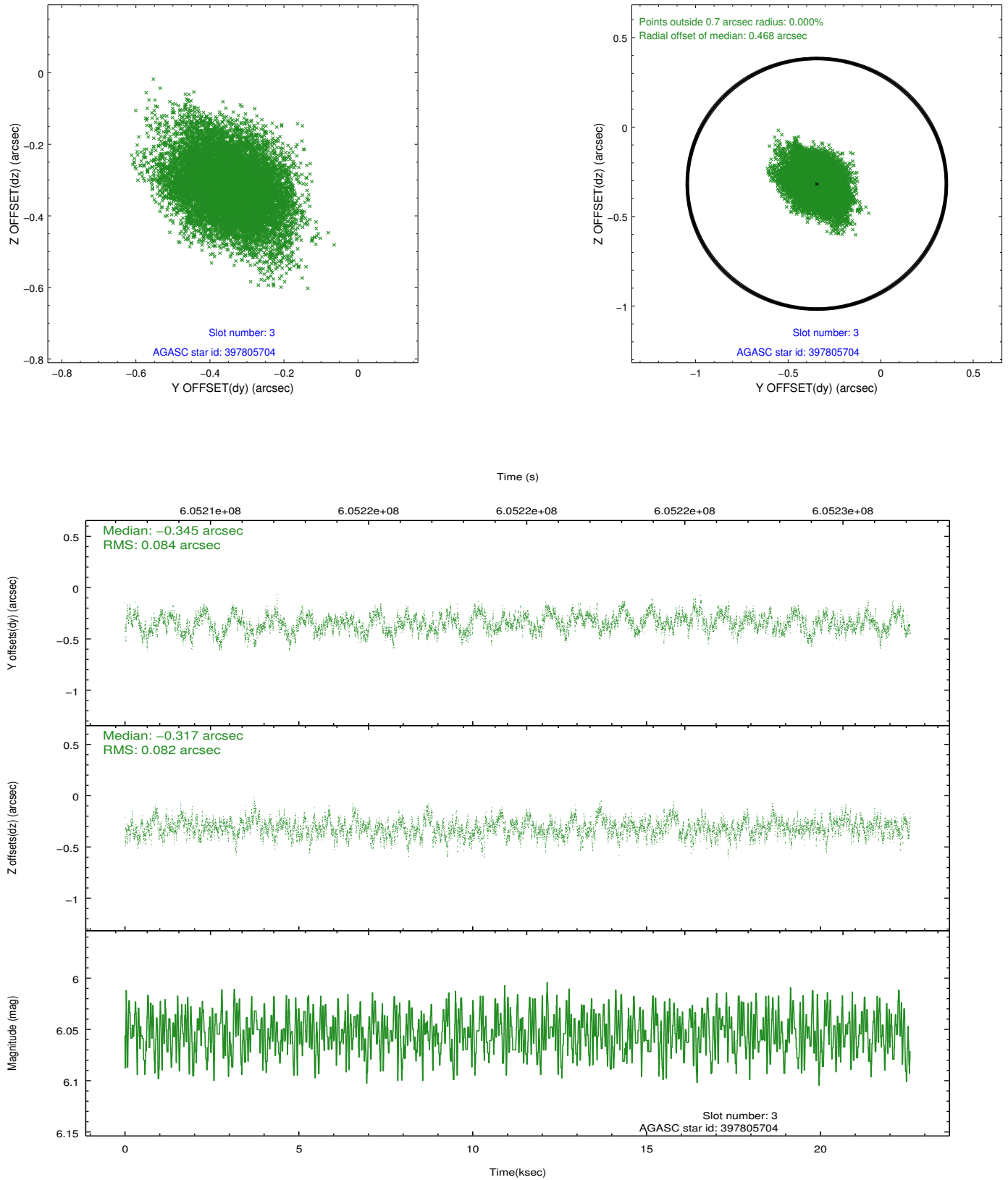


Slot Statistics

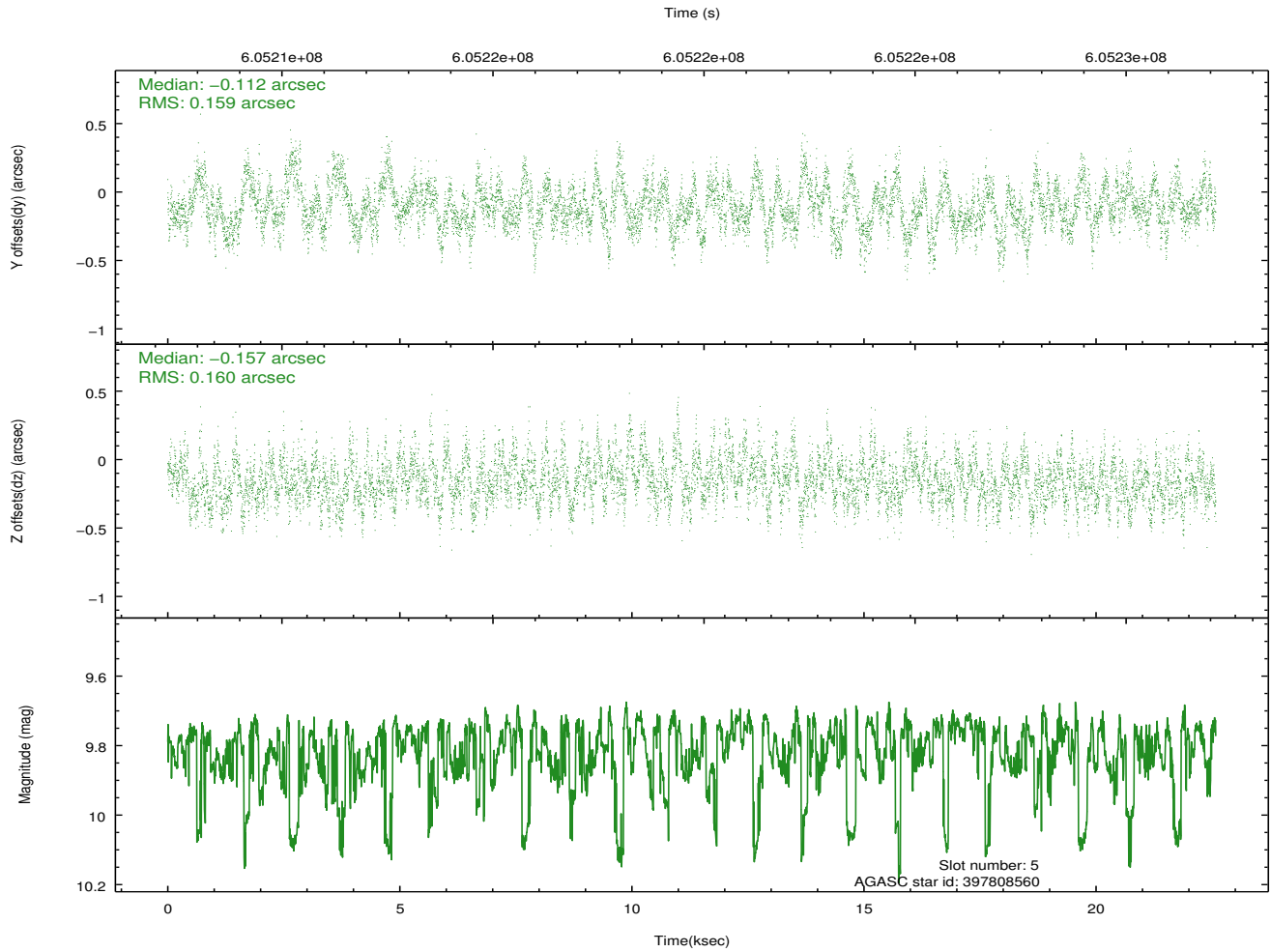
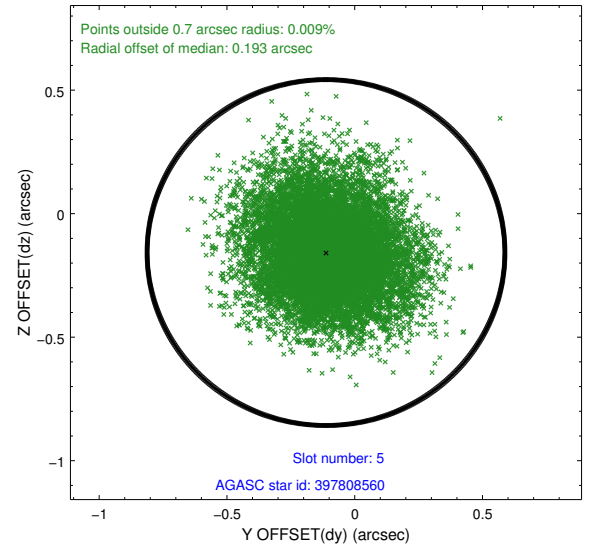
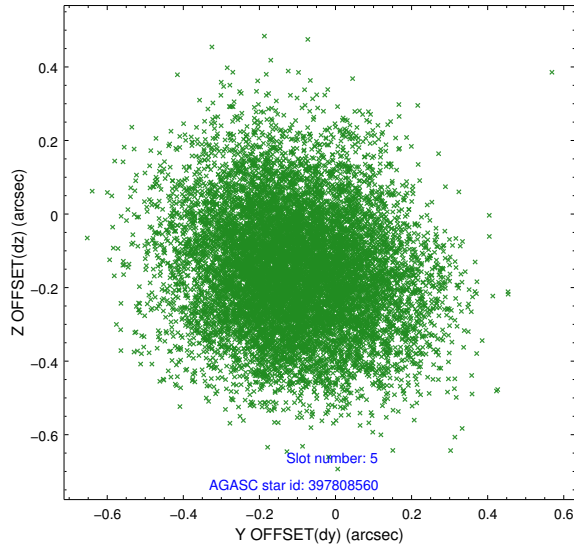
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.27	5506	0.098	-0.092	0.011	0.018	0.000000	0.000000	917.59	-844.78
1	FID		ACIS-I-5	7.26	5508	-0.429	0.028	0.008	0.014	0.000000	0.000000	-1831.08	1052.59
2	FID		ACIS-I-6	7.27	5506	0.240	0.135	0.008	0.013	0.000000	0.000000	382.96	1697.50
3	GUIDE	used	397805704	6.05	11017	-0.345	-0.317	0.124	0.201	216.371468	38.393051	2062.99	-454.66
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	GUIDE	used	397808560	9.81	10995	-0.112	-0.157	0.242	0.389	216.564463	37.977903	476.10	-344.14
6	GUIDE	used	397940208	9.65	10999	0.080	0.482	0.204	0.332	217.129334	38.261499	765.45	-2220.15
7	GUIDE	used	397943760	7.93	11012	0.386	-0.013	0.125	0.199	217.039857	37.556695	-1456.76	-970.59

2.4 Star Slots

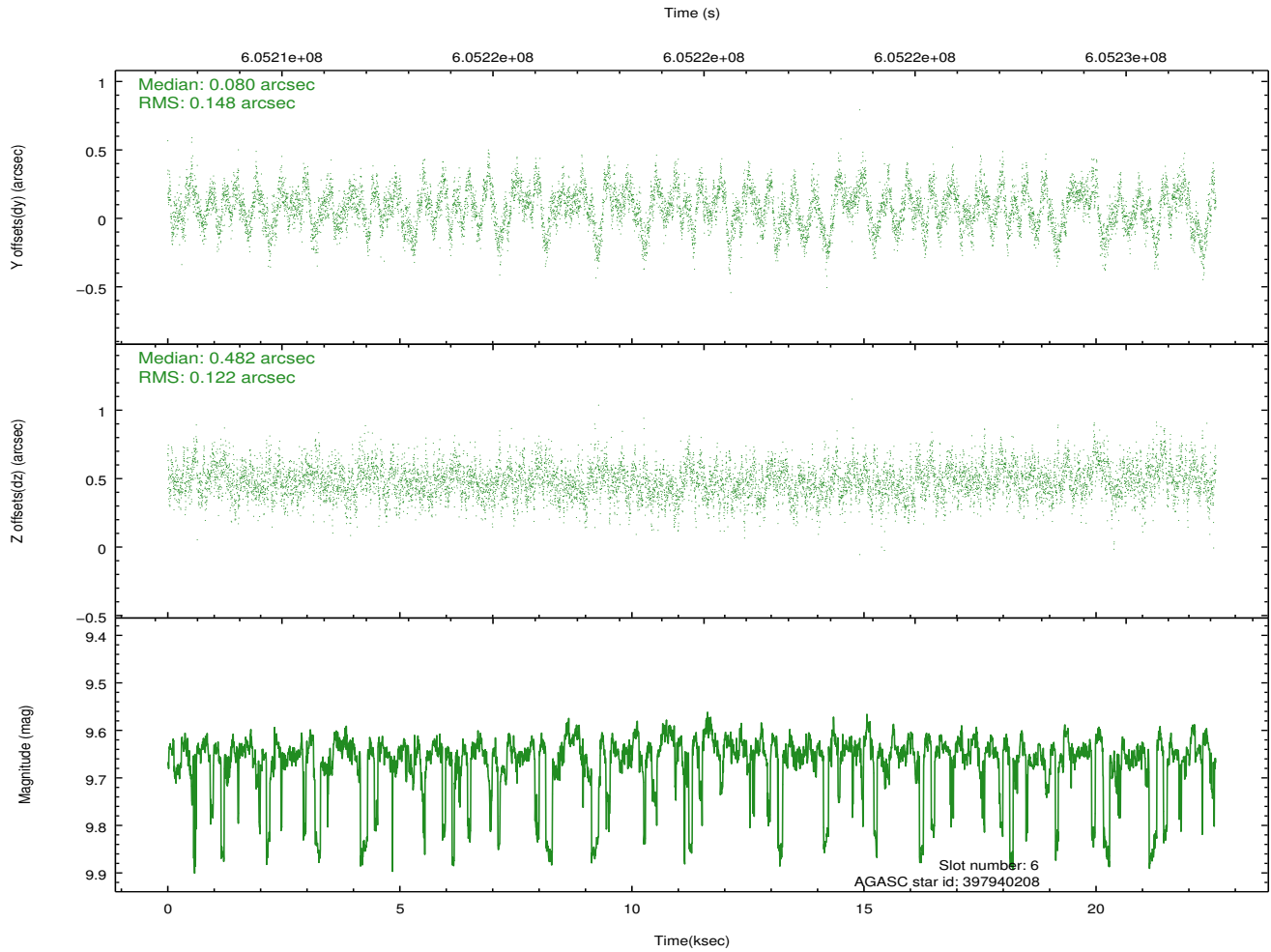
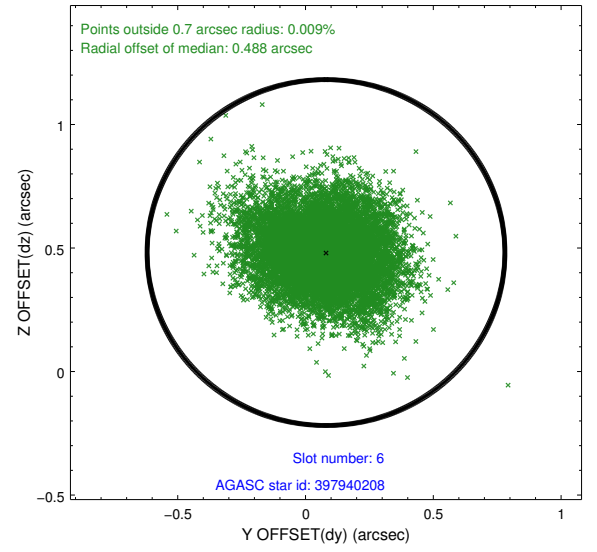
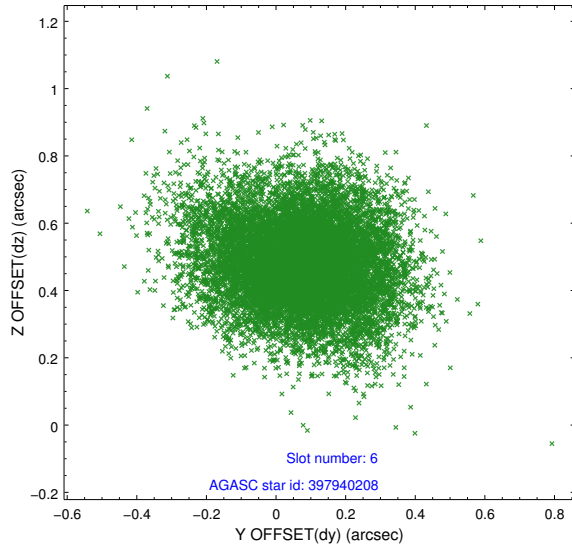
2.4.1 Slot 3



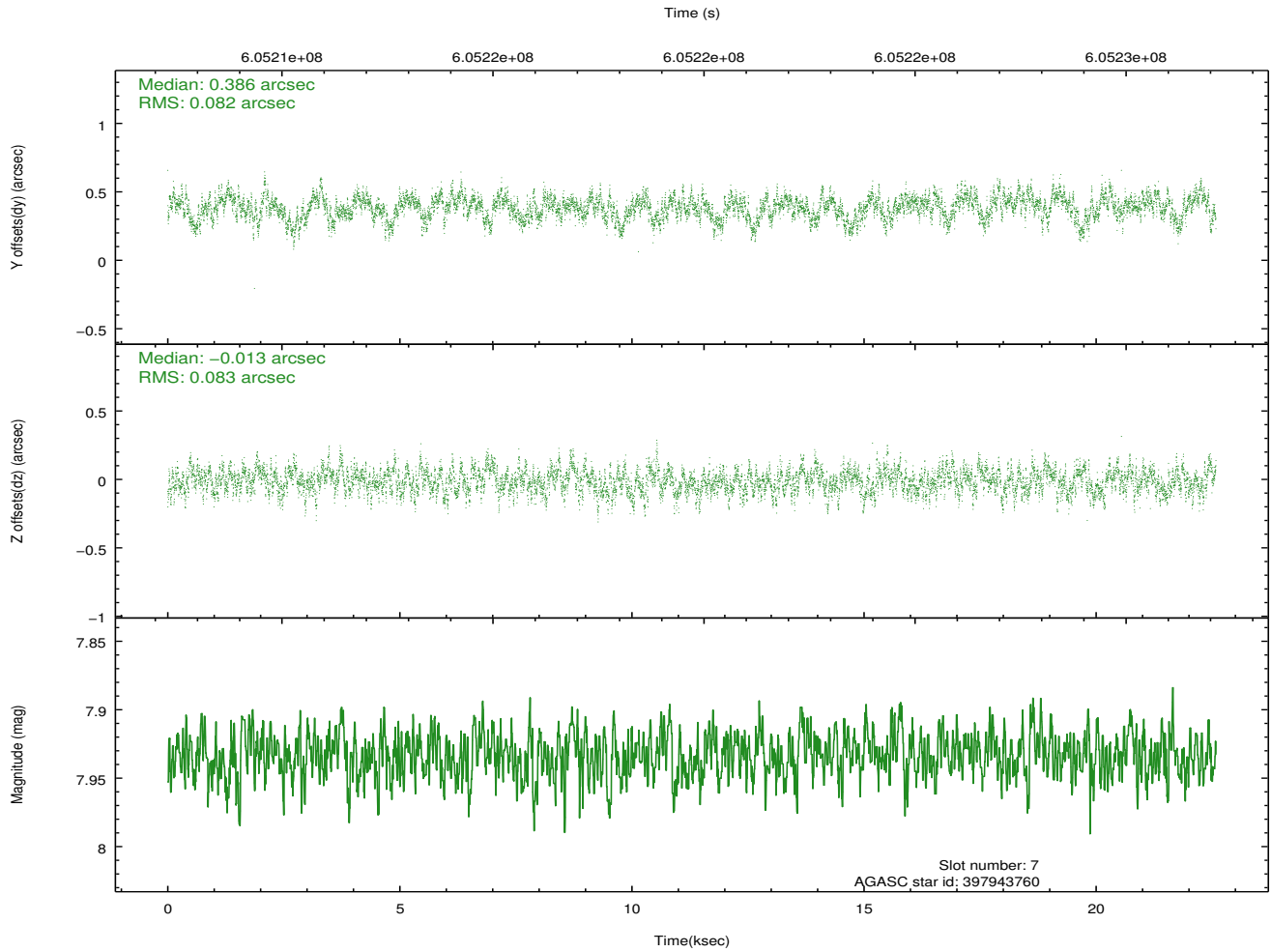
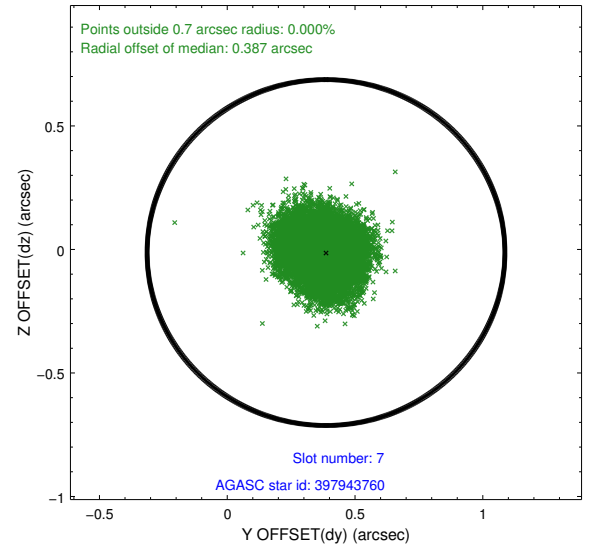
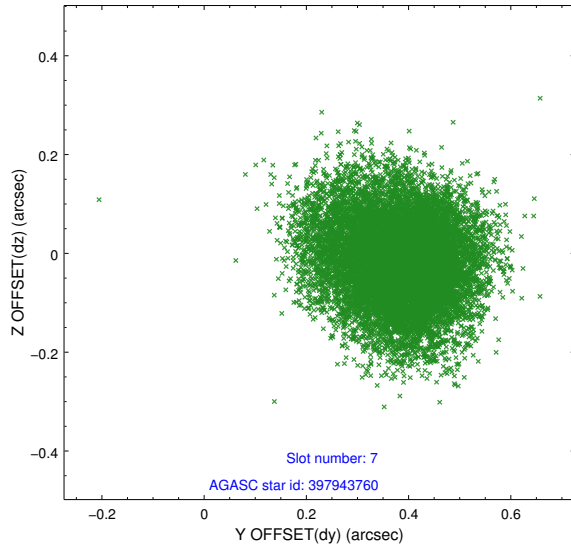
2.4.2 Slot 5



2.4.3 Slot 6

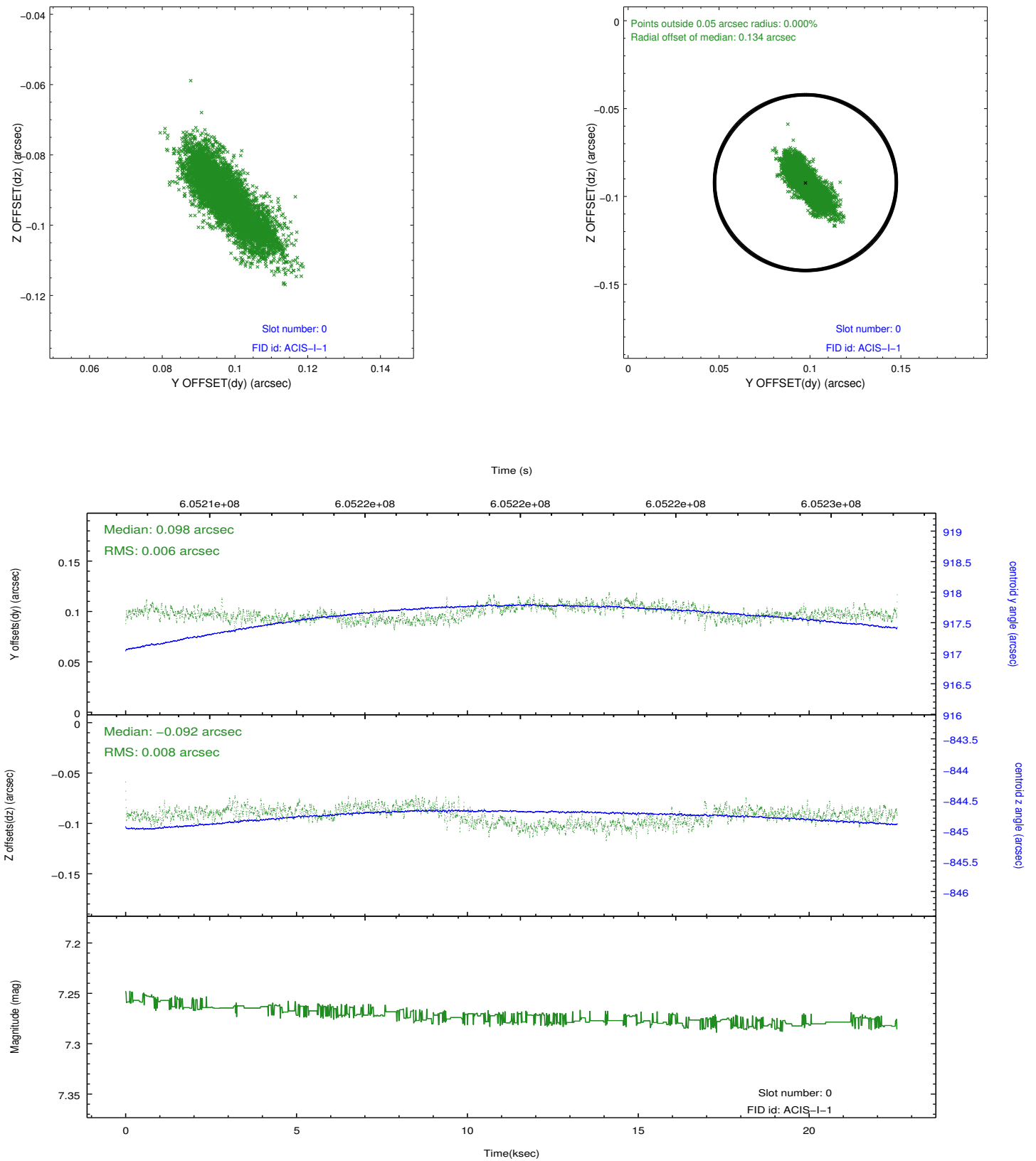


2.4.4 Slot 7

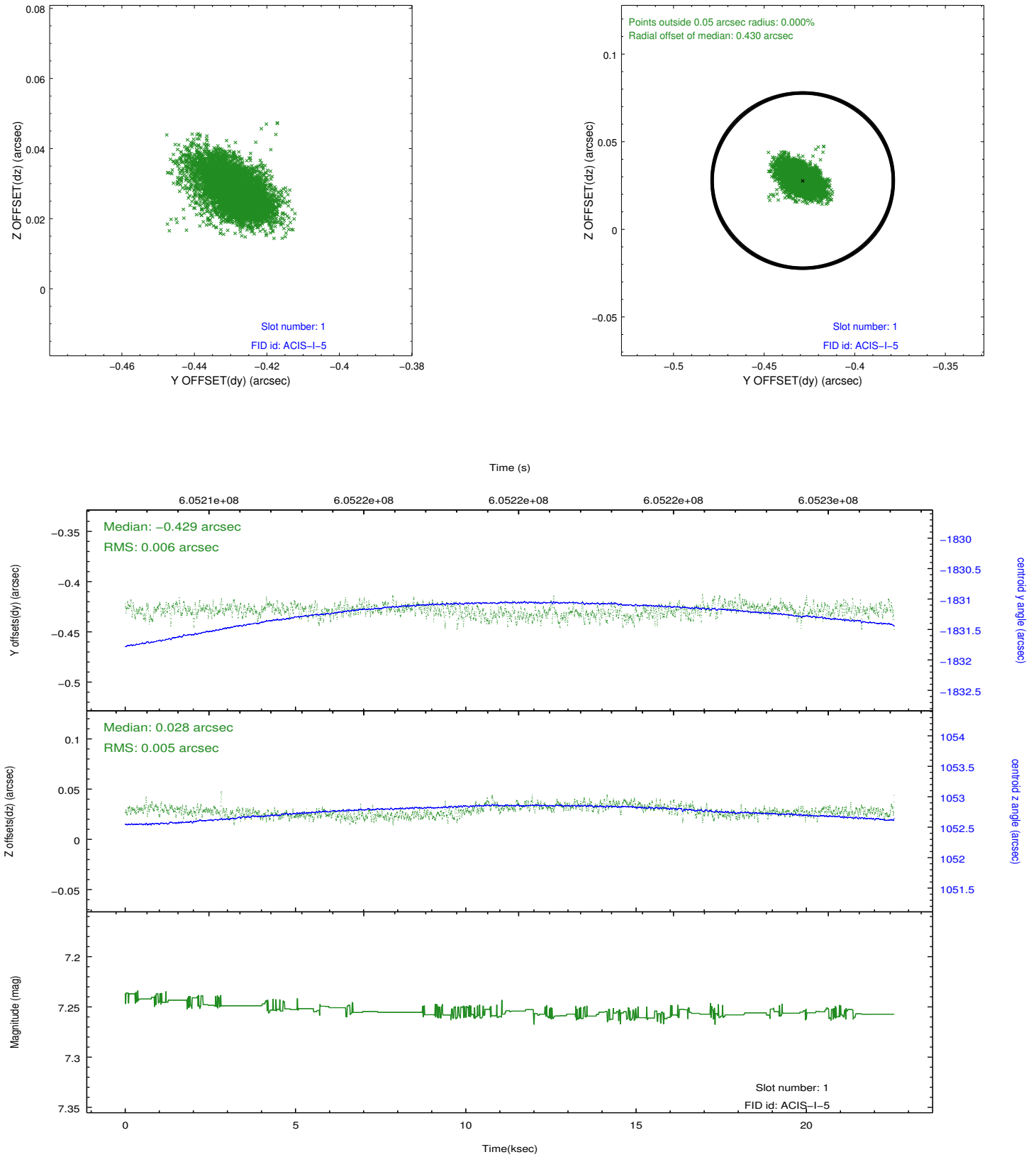


2.5 FID Slots

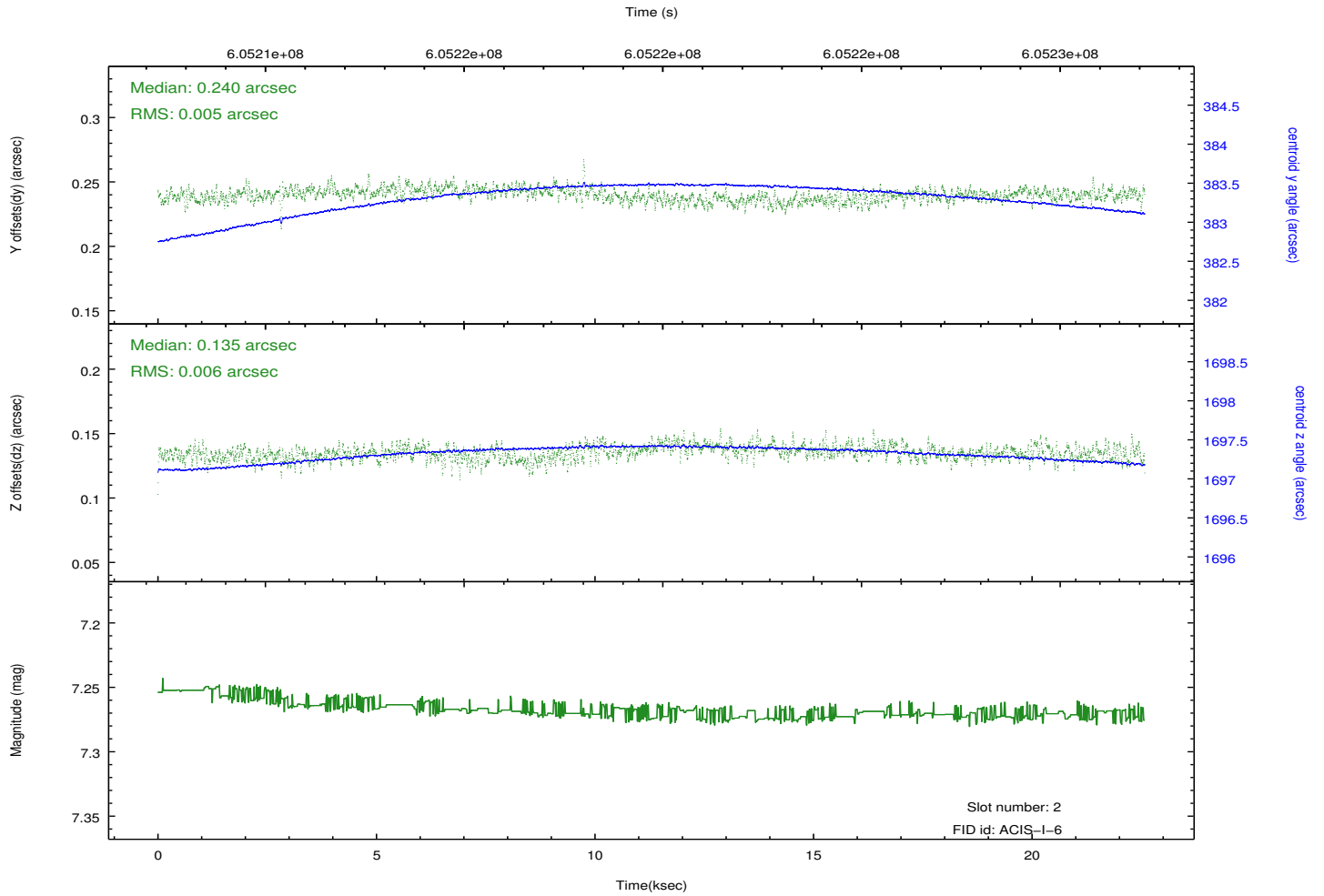
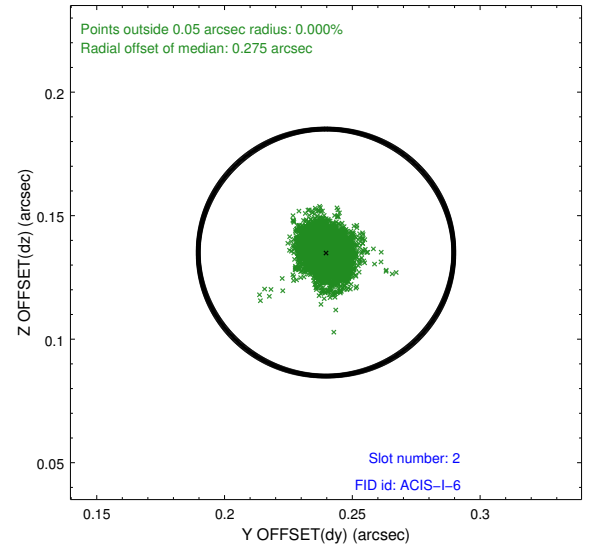
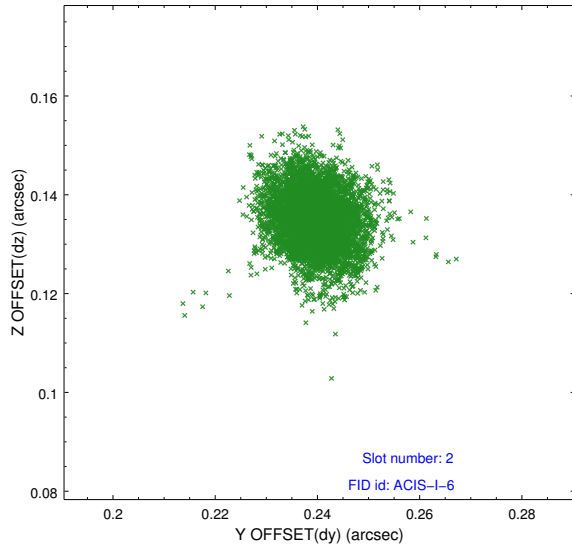
2.5.1 Slot 0



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)	2017.03.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.963417948246

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.