

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 20023 - L2 Version 1
Chandra X-Ray Center

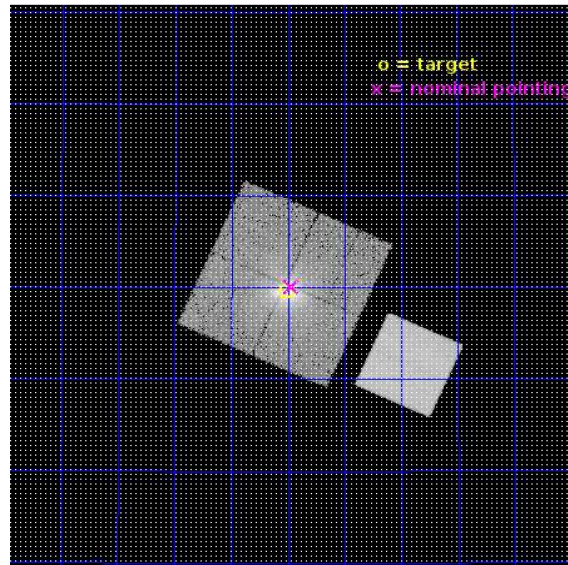
L2 Processing Date : Mar 10 2017

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1 Front

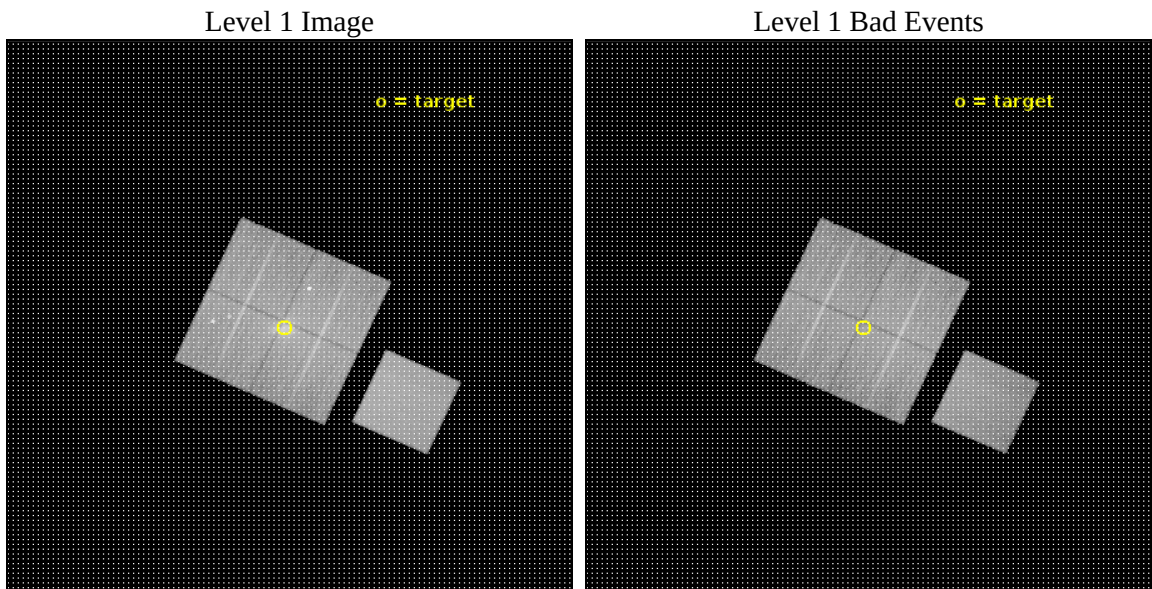
seq_num	801576	Sequence number
obs_id	20023	Observation id
title	Searching for Shock Features in the Radio Halo Cluster Abell 1914	
observer	Jimmy Irwin	Principal investigator
object	Abell 1914	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.501667	Observer's specified target RA [deg]
dec_targ	37.828056	Observer's specified target Dec [deg]
ra_nom	216.49205943056	Nominal RA [deg]
dec_nom	37.834909619166	Nominal Dec [deg]
roll_nom	114.21456836328	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25756.701972961	Sum of GTIs [s]
livetime	25420.171699877	Livetime [s]
ontime0	25753.437742114	Sum of GTIs [s]
ontime1	25756.619892955	Sum of GTIs [s]
ontime2	25747.237671494	Sum of GTIs [s]
ontime3	25756.701972961	Sum of GTIs [s]
ontime7	25756.743012905	Sum of GTIs [s]
l2events	202913	Number of level 2 events



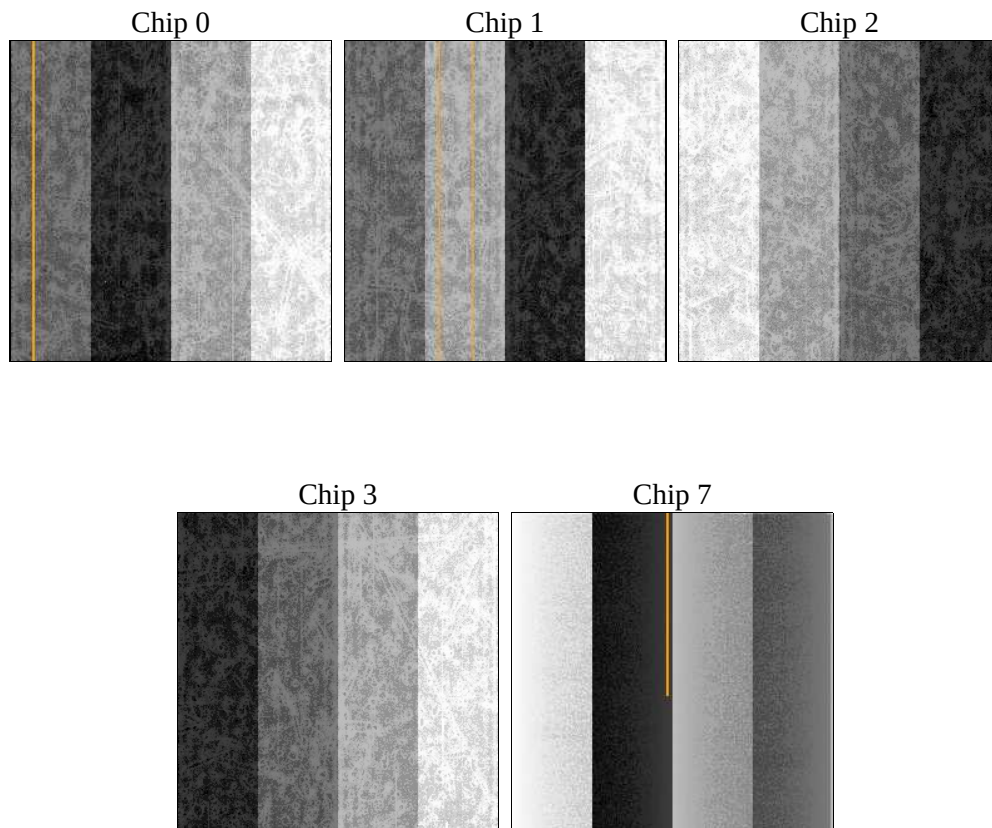
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	25710.695000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	25756.701972961	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	25753.437742114	Sum of GTIs [s]
date	2017-03-10T12:37:15	Date and time of file creation	ontime1	25756.619892955	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25747.237671494	Sum of GTIs [s]
			ontime3	25756.701972961	Sum of GTIs [s]
			ontime7	25756.743012905	Sum of GTIs [s]
			l1events	1018958	Number of level 1 events

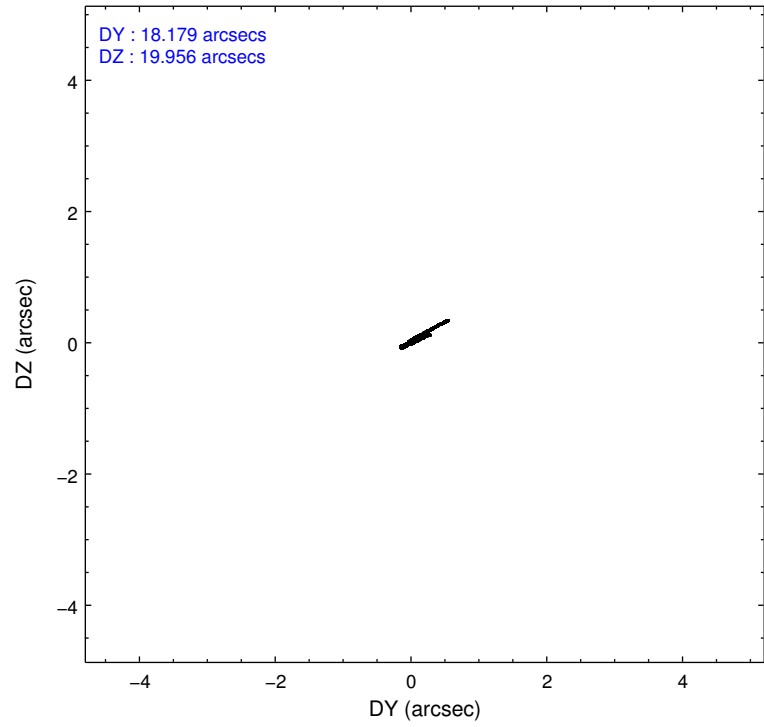
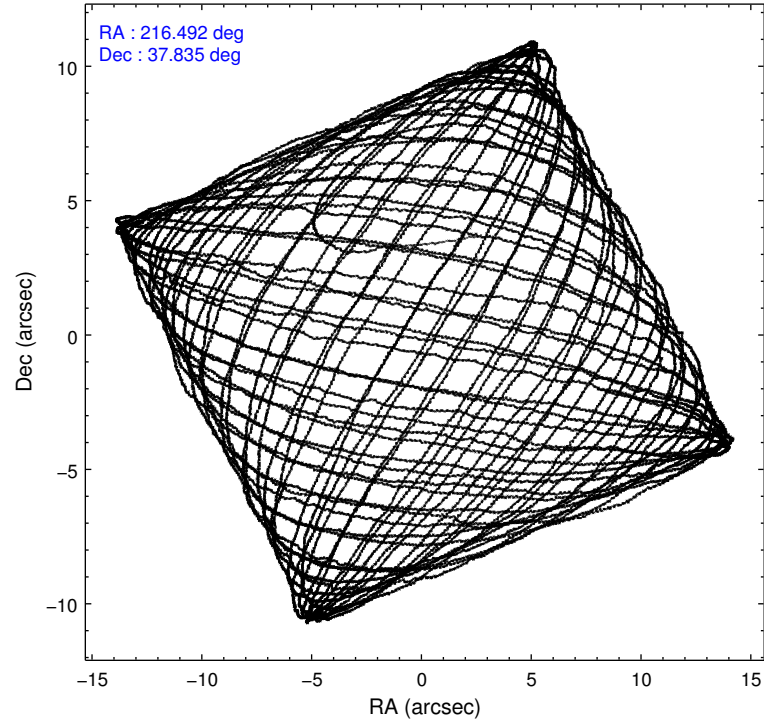
2.1.4 Events

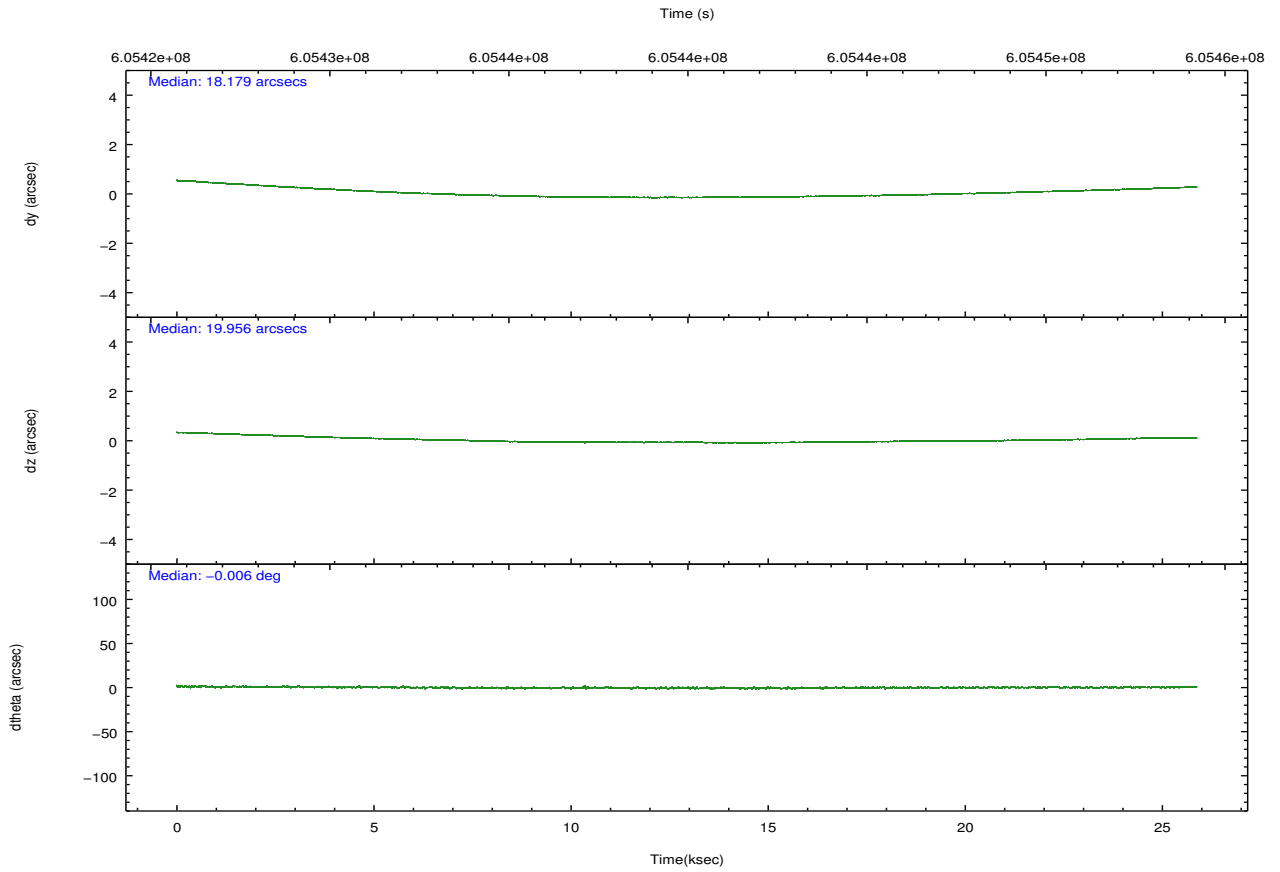
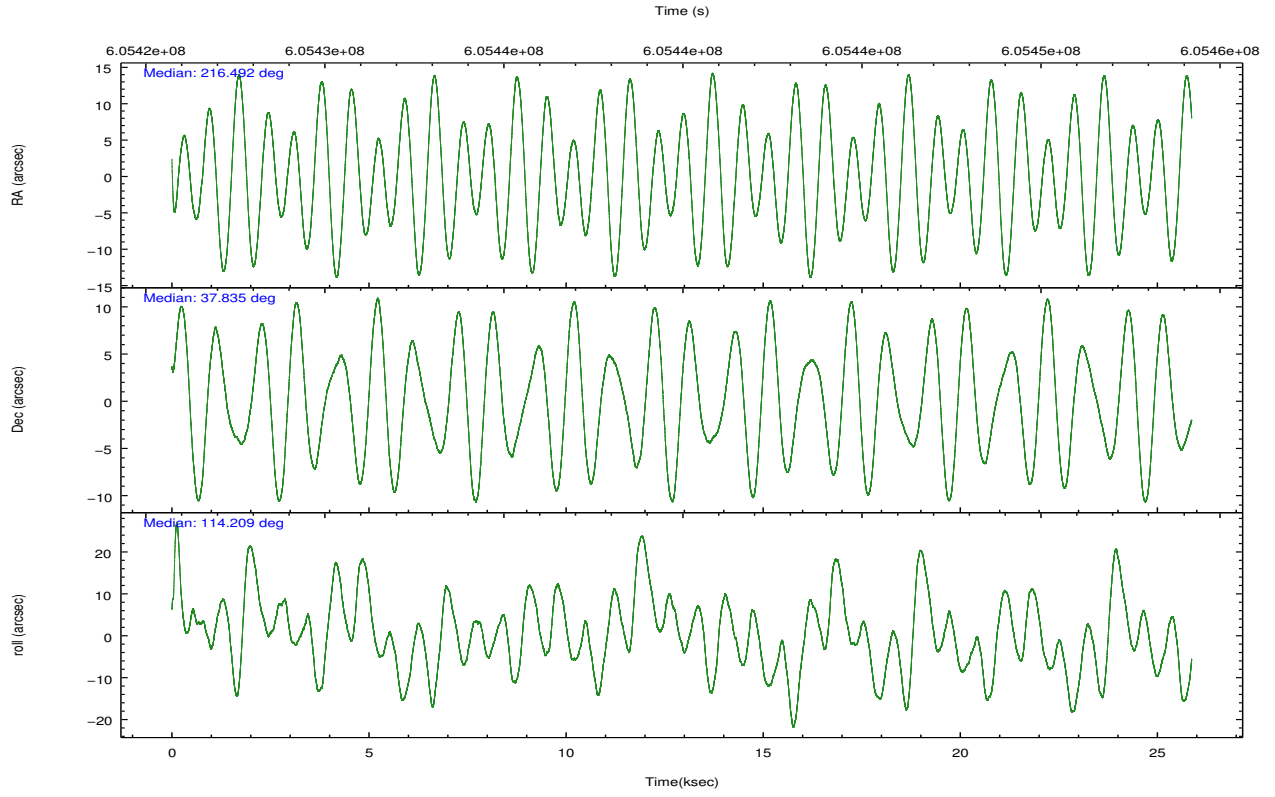
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	177209	192127	206497	205028	238097	grade 0 events	9143	16096	11189	24540	7611
rejected events	154156	157404	175356	163544	137359		5%	8%	5%	11%	3%
rejected %	86%	81%	84%	79%	57%	grade 1 events	102	140	139	181	323
							0%	0%	0%	0%	0%
						grade 2 events	5356	8624	11703	6501	21766
							3%	4%	5%	3%	9%
						grade 3 events	2115	2247	2036	2820	7278
							1%	1%	0%	1%	3%
						grade 4 events	2088	2131	2076	2671	7245
							1%	1%	1%	1%	3%
						grade 5 events	7372	7635	6844	8452	22173
							4%	3%	3%	4%	9%
						grade 6 events	4355	5638	4143	4957	56860
							2%	2%	2%	2%	23%
						grade 7 events	146678	149616	168367	154906	114841
							82%	77%	81%	75%	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	216.520458	216.4920594305625	CCD I2 on	Y	Y
[deg] Pointing Dec	37.818847	37.83490961916581	CCD I3 on	Y	Y
[deg] Pointing Roll	113.988474	114.2145683632843	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)	605427176.184000	605426184.44995	CCD S5 on	N	N
Observation start date	2017-03-09T06:11:47	2017-03-09T05:56:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	605452887.184000	605453122.98901	On-chip summing requested	N	N
Observation end date	2017-03-09T13:20:18	2017-03-09T13:25:22	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



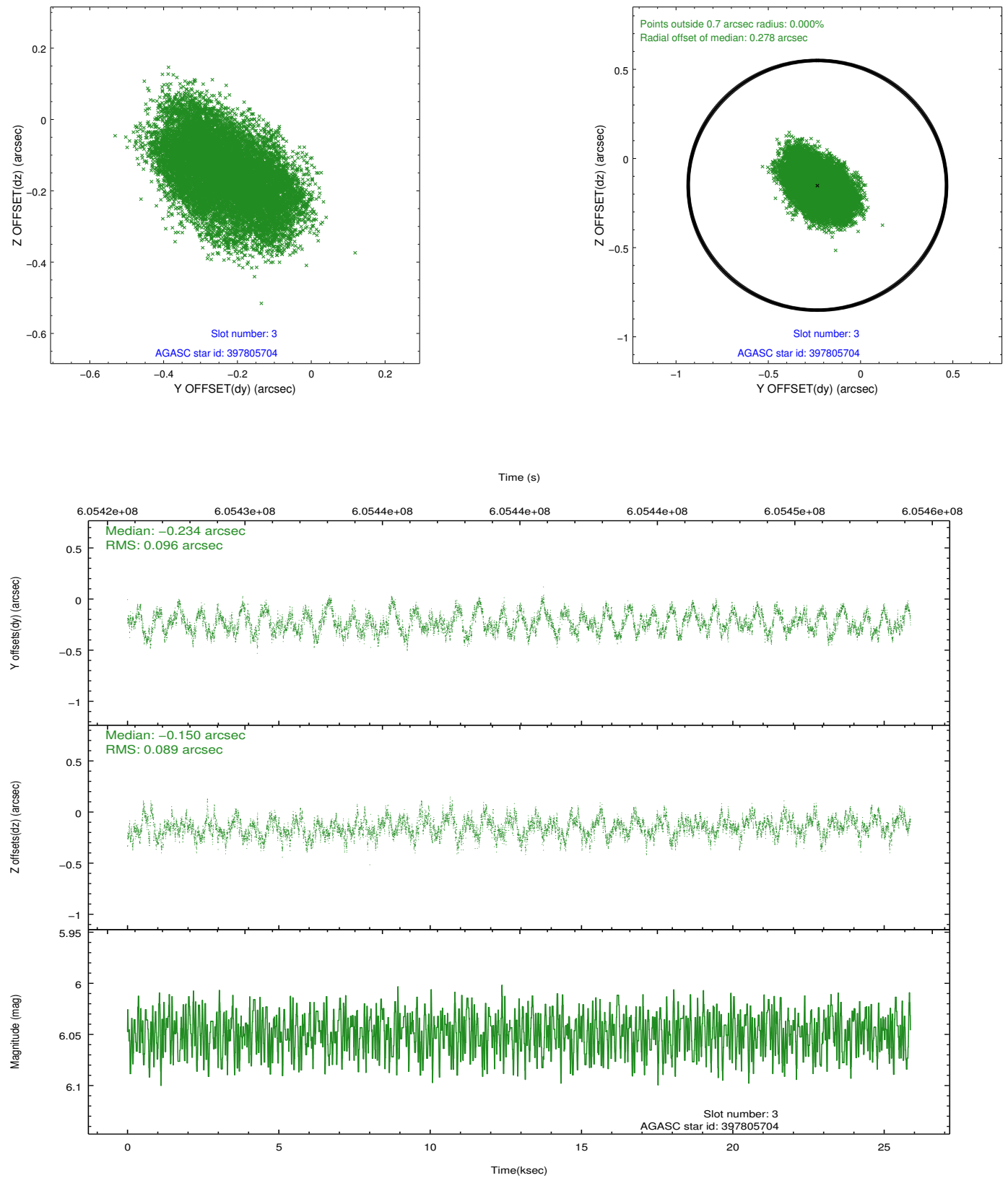


Slot Statistics

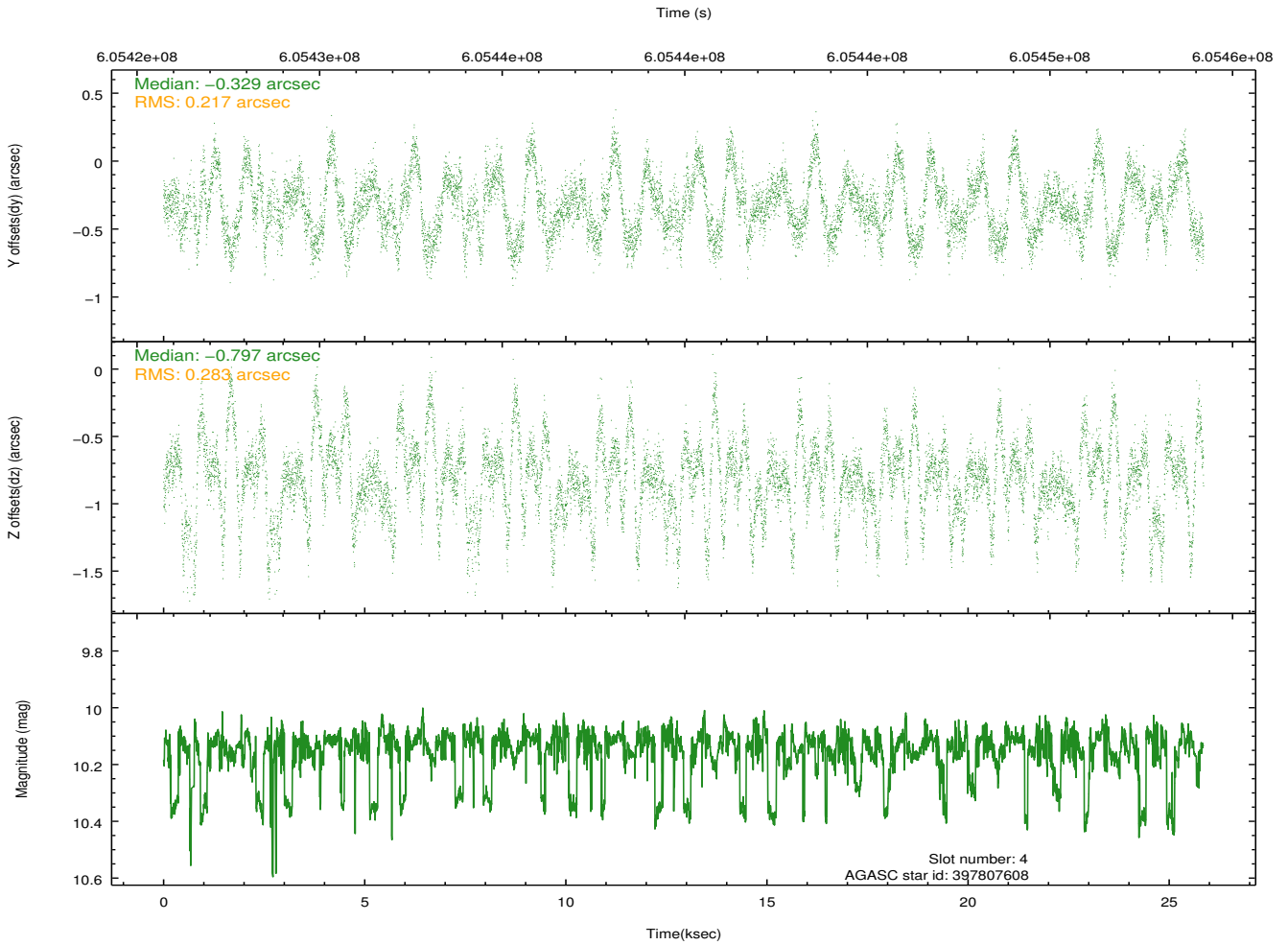
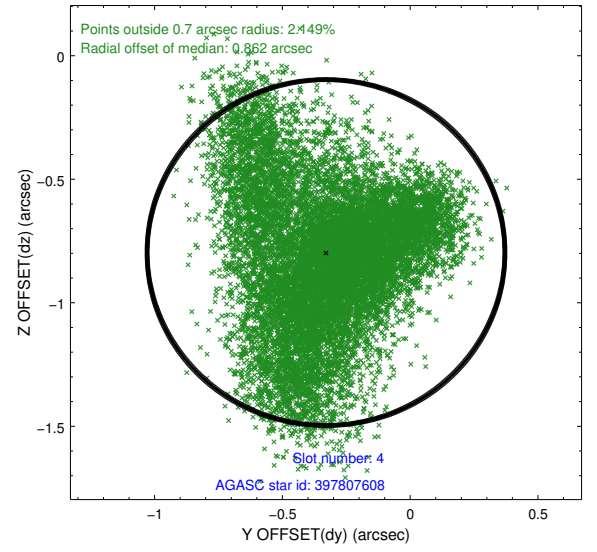
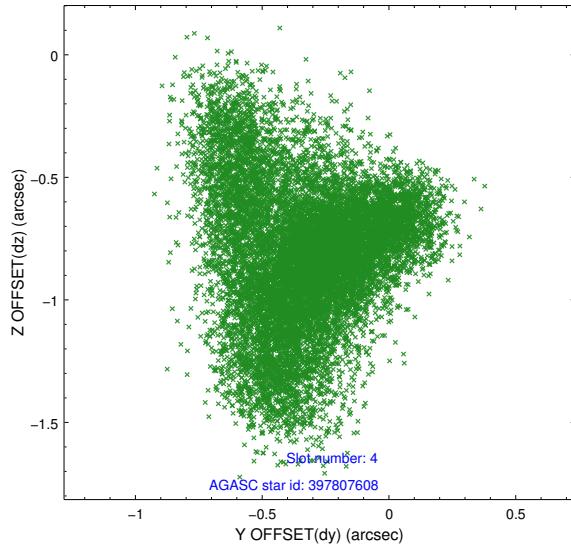
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.29	6310	0.089	-0.092	0.010	0.021	0.000000	0.000000	921.29	-843.76
1	FID		ACIS-I-5	7.28	6308	-0.425	0.018	0.007	0.011	0.000000	0.000000	-1827.39	1053.61
2	FID		ACIS-I-6	7.29	6308	0.245	0.144	0.009	0.018	0.000000	0.000000	386.71	1698.51
3	GUIDE	used	397805704	6.05	12620	-0.234	-0.150	0.143	0.221	216.371468	38.393051	2059.68	-456.20
4	GUIDE	used	397807608	10.14	12426	-0.329	-0.797	0.380	0.626	215.666147	37.953309	1438.34	2013.83
5	GUIDE	used	397808560	9.79	12599	-0.031	0.088	0.280	0.422	216.564463	37.977903	472.67	-345.49
6	GUIDE	used	397940208	9.65	12597	0.137	0.643	0.286	0.429	217.129334	38.261499	762.18	-2221.78
7	GUIDE	used	397943760	7.94	12614	0.449	0.230	0.154	0.246	217.039857	37.556695	-1460.10	-972.21

2.4 Star Slots

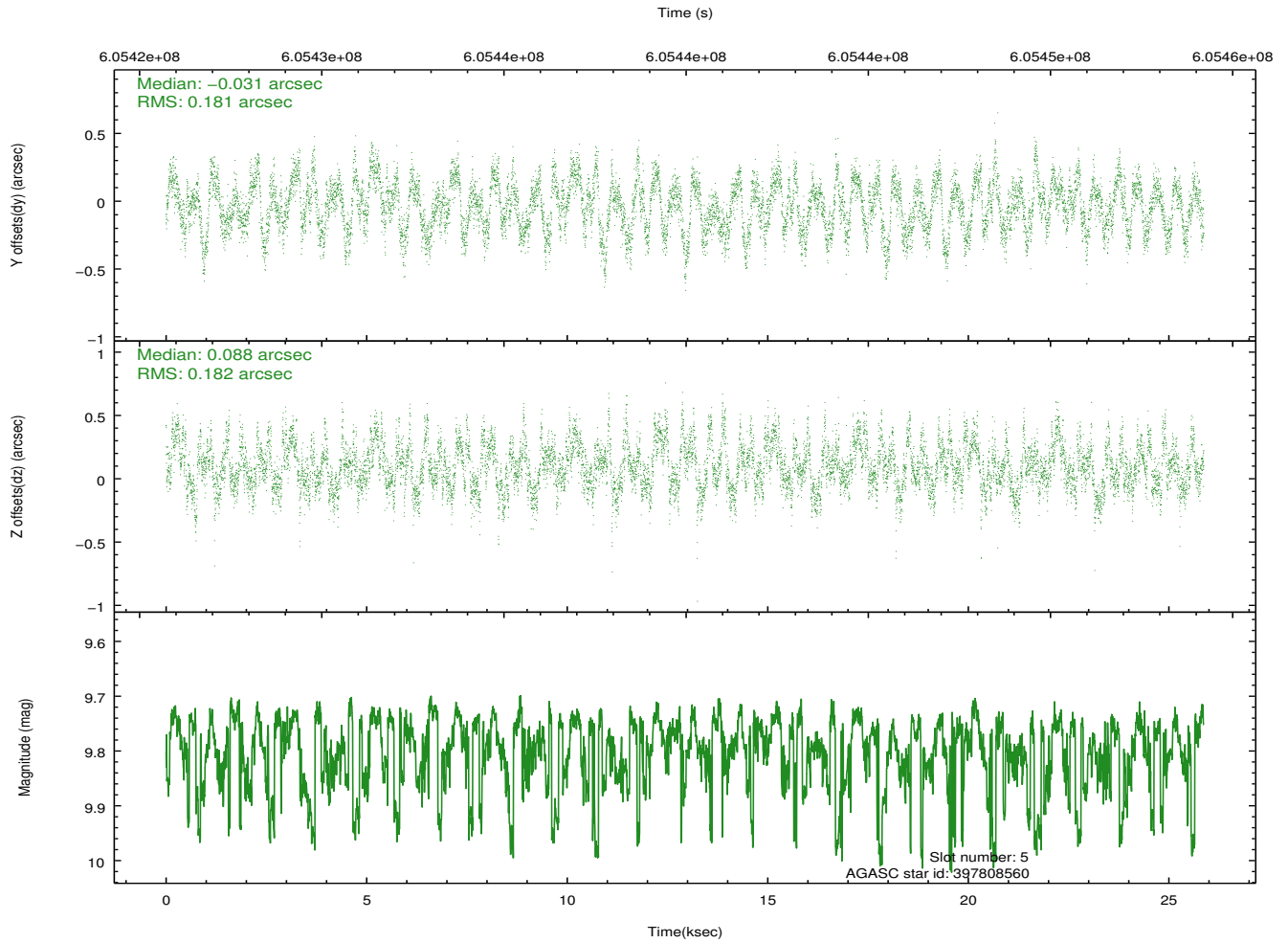
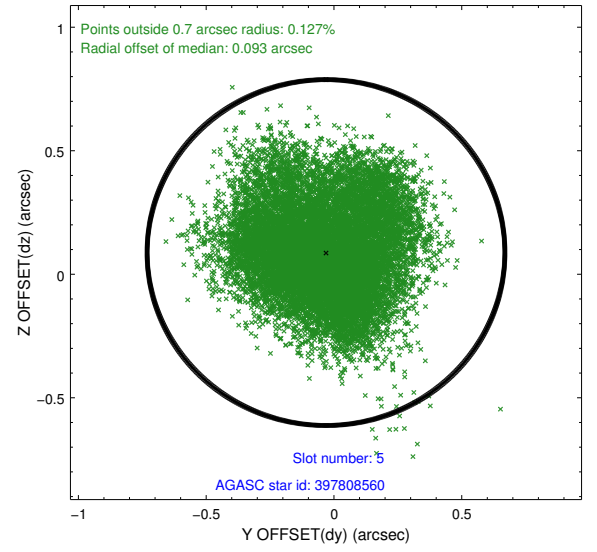
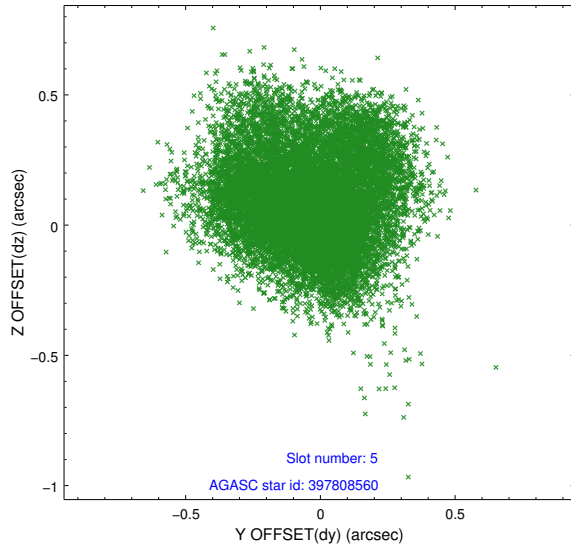
2.4.1 Slot 3



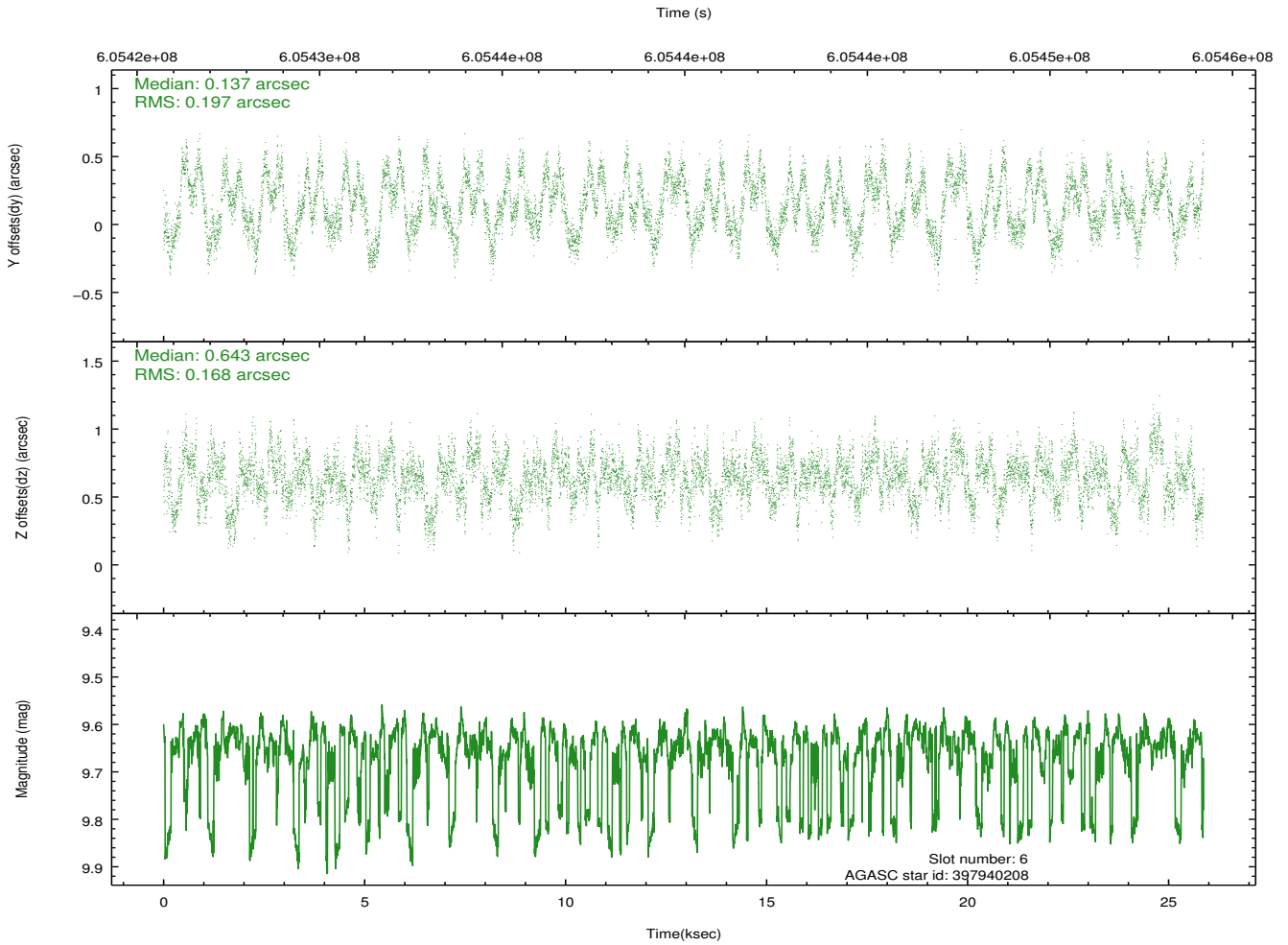
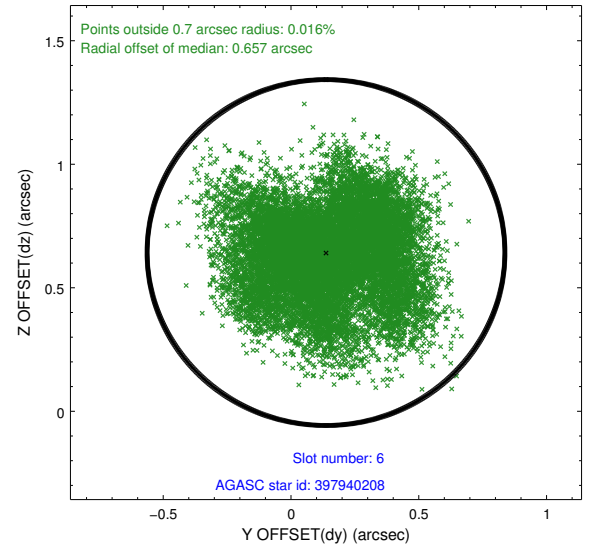
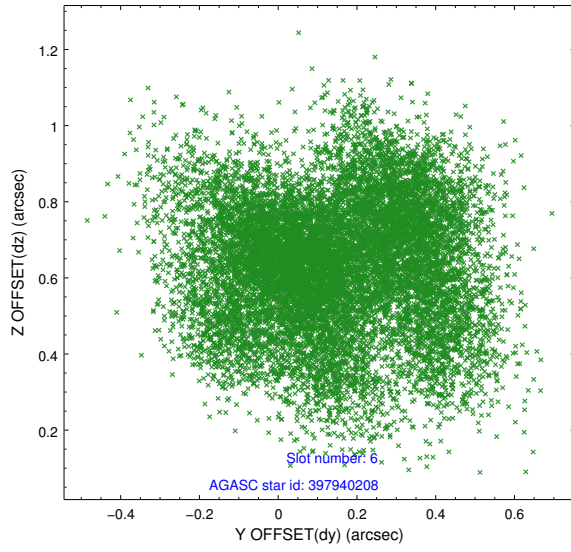
2.4.2 Slot 4



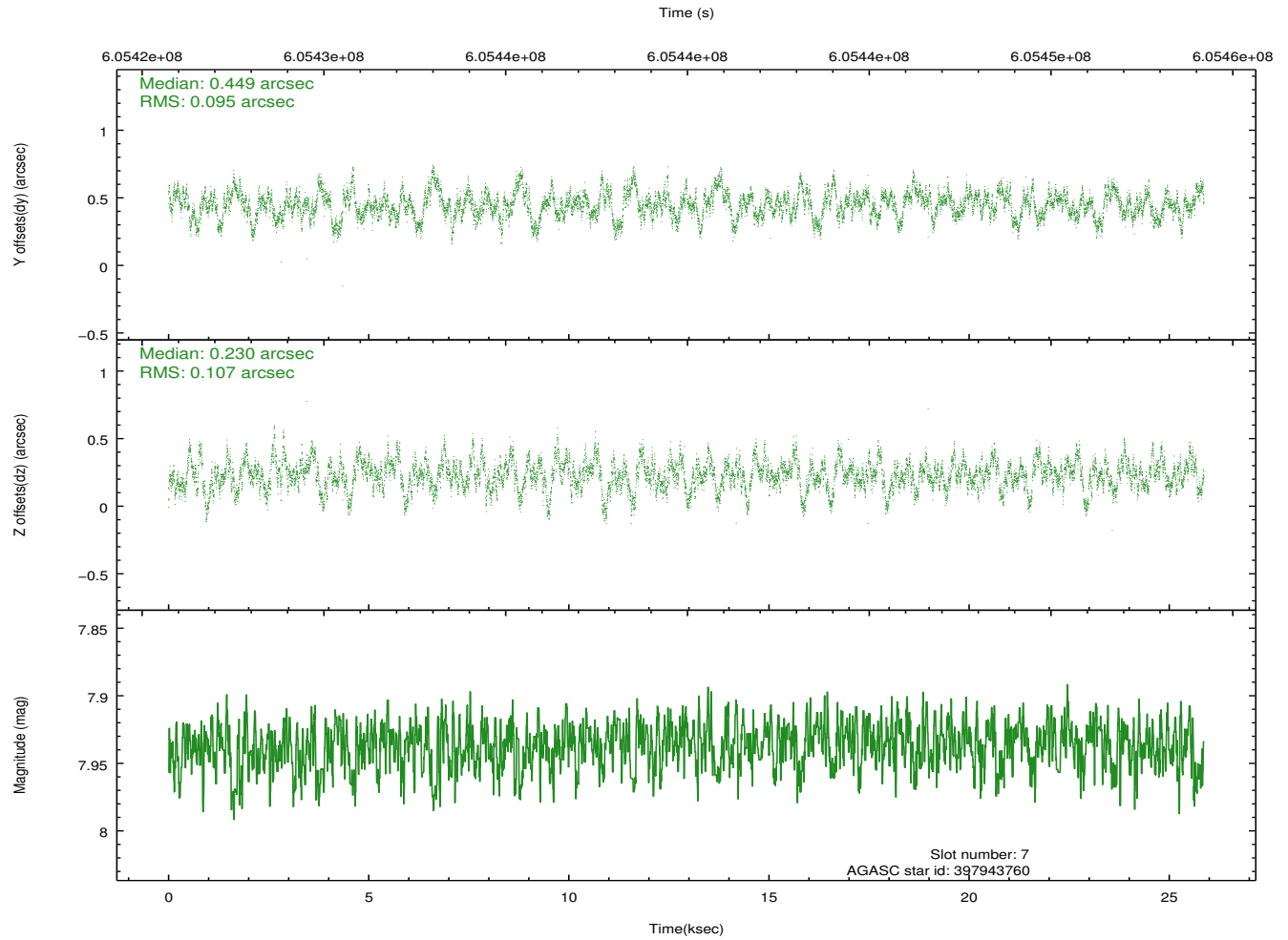
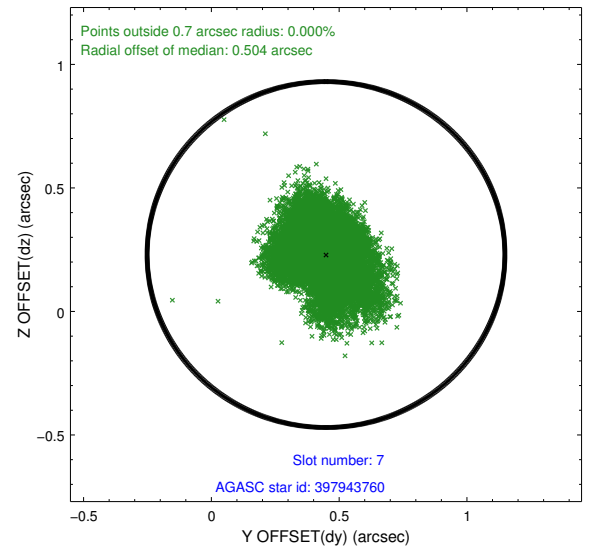
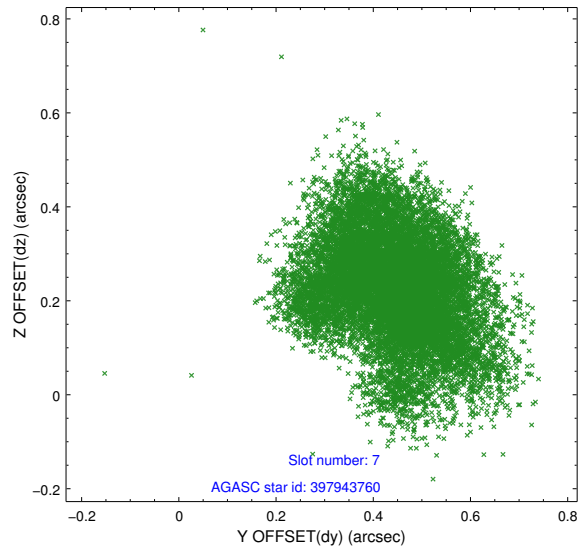
2.4.3 Slot 5



2.4.4 Slot 6

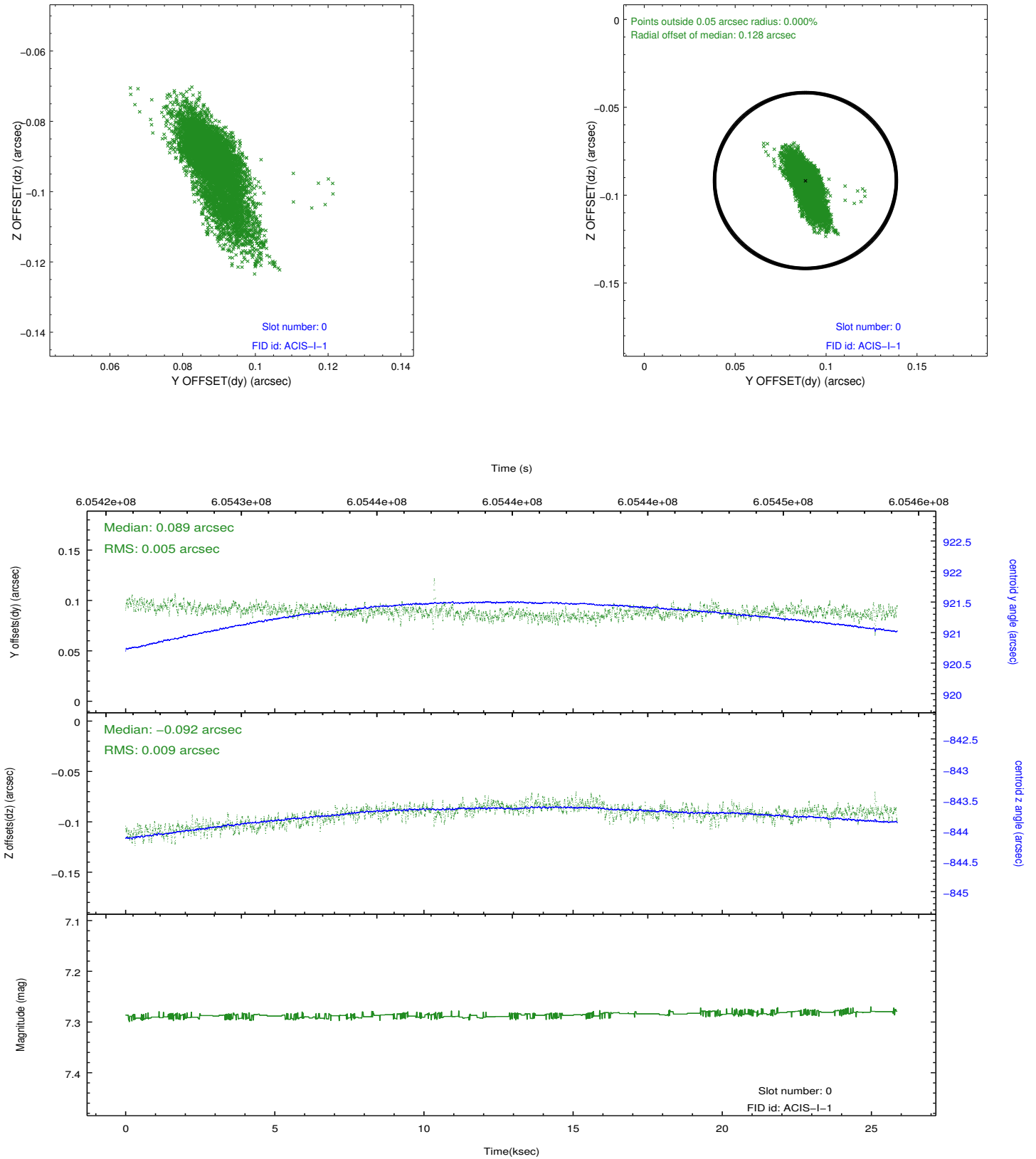


2.4.5 Slot 7

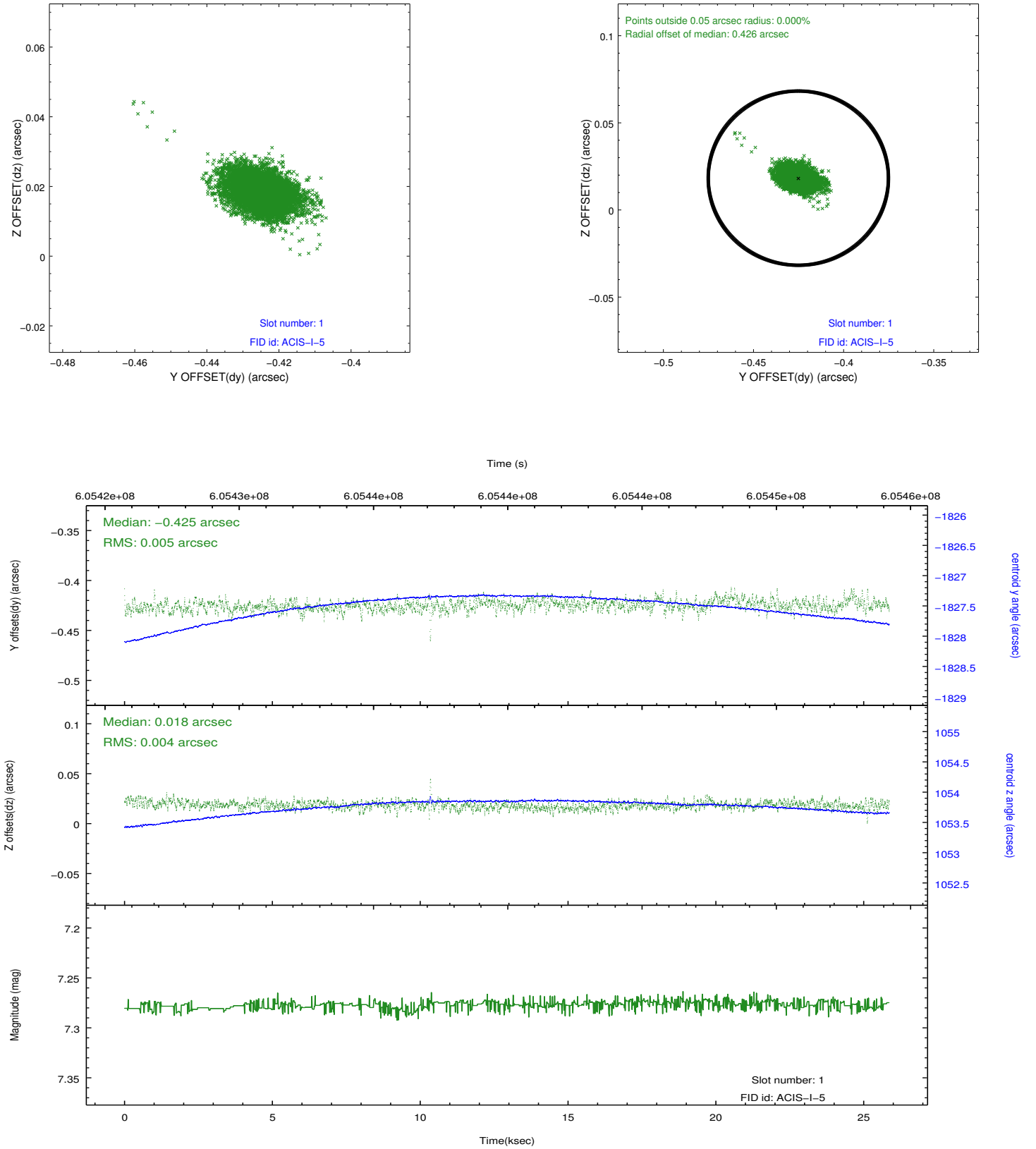


2.5 FID Slots

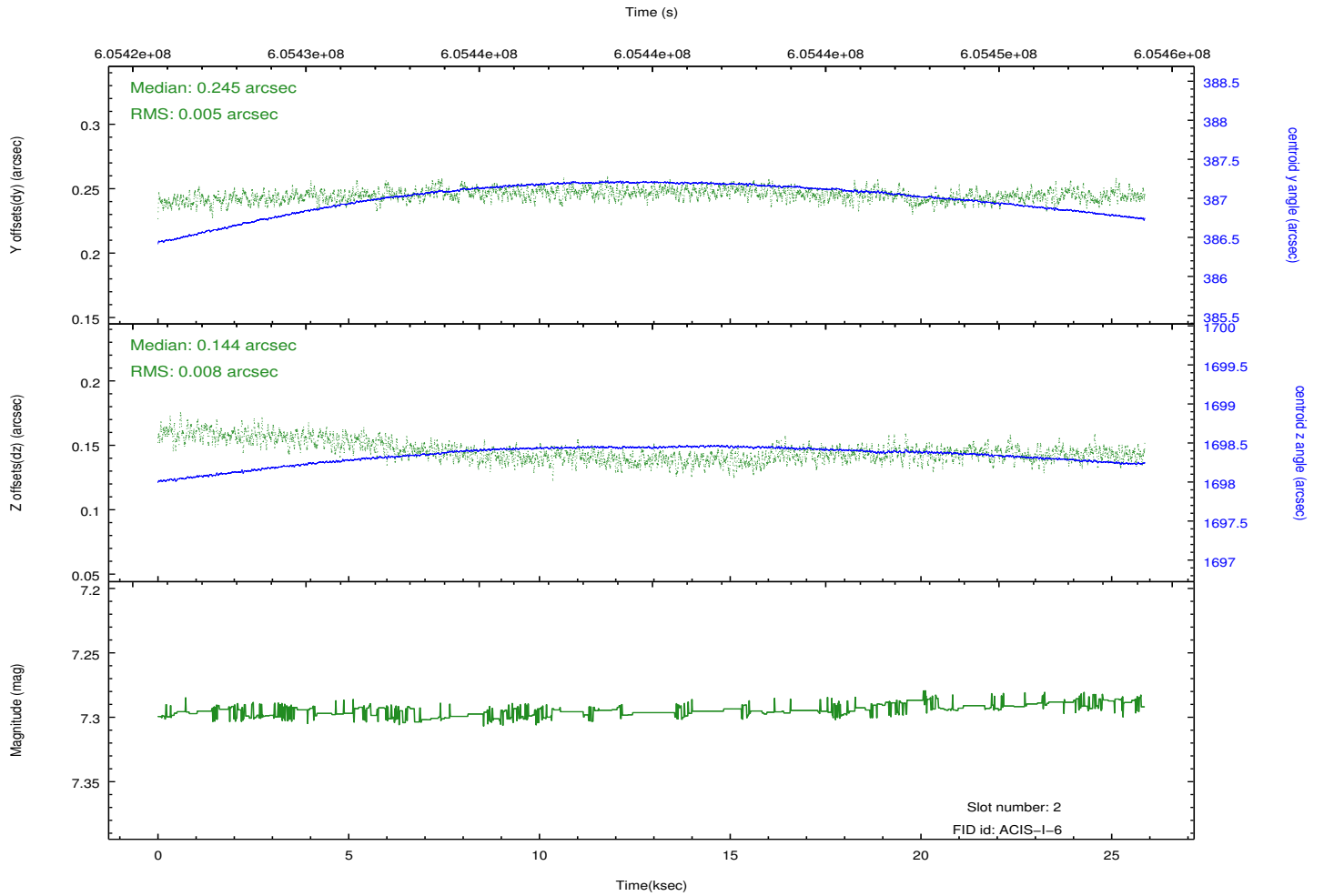
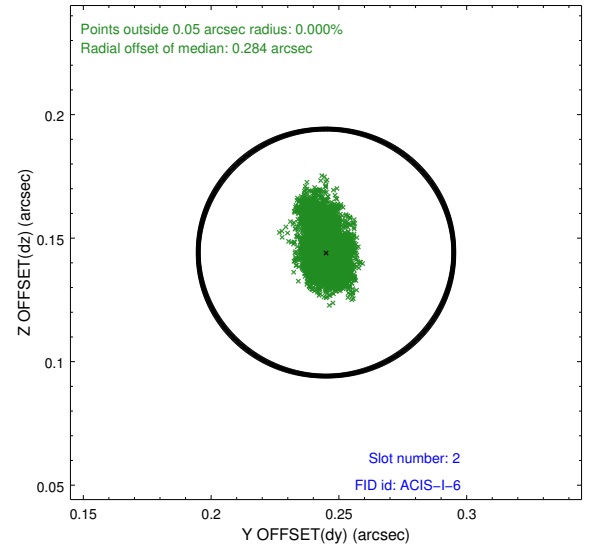
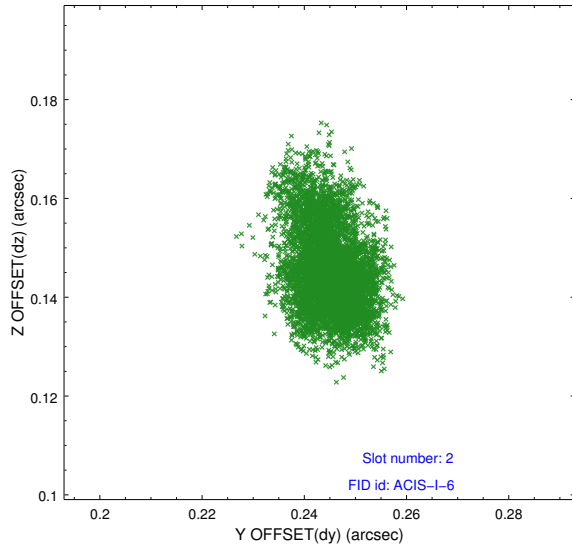
2.5.1 Slot 0



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)	2017.03.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.756701972961

A.2 Comments