

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 20783 - L2 Version 1
Chandra X-Ray Center

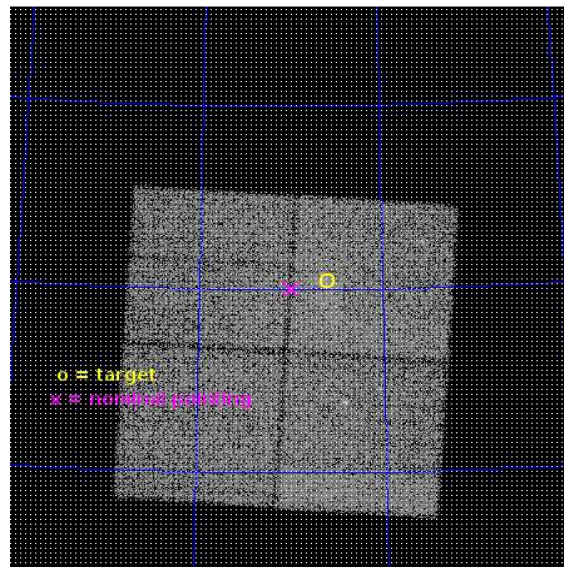
L2 Processing Date : May 2 2019

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1 Front

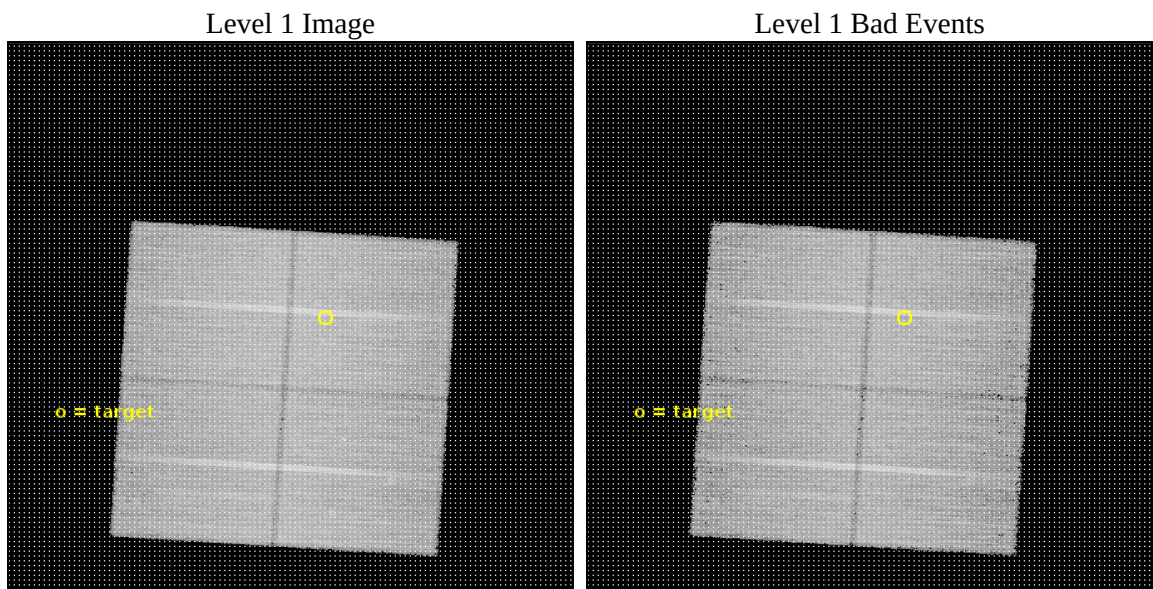
seq_num	801796	Sequence number
obs_id	20783	Observation id
title	Clusters in Formation - The Case of 3C61.1 and A Luminous AGN in a Merging Cluster	Proposal title
observer	Ralph Kraft	Principal investigator
object	X-CLASS 1835 (3C61.1)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	35.75	Observer's specified target RA [deg]
dec_targ	86.341667	Observer's specified target Dec [deg]
ra_nom	36.240673800527	Nominal RA [deg]
dec_nom	86.334395404233	Nominal Dec [deg]
roll_nom	3.7190302260946	Nominal Roll [deg]
revision	1	Processing version of data
ontime	40069.990034342	Sum of GTIs [s]
livetime	39546.446115446	Livetime [s]
ontime0	40076.148835301	Sum of GTIs [s]
ontime1	40073.048884988	Sum of GTIs [s]
ontime2	40079.37191546	Sum of GTIs [s]
ontime3	40069.990034342	Sum of GTIs [s]
l2events	122465	Number of level 2 events



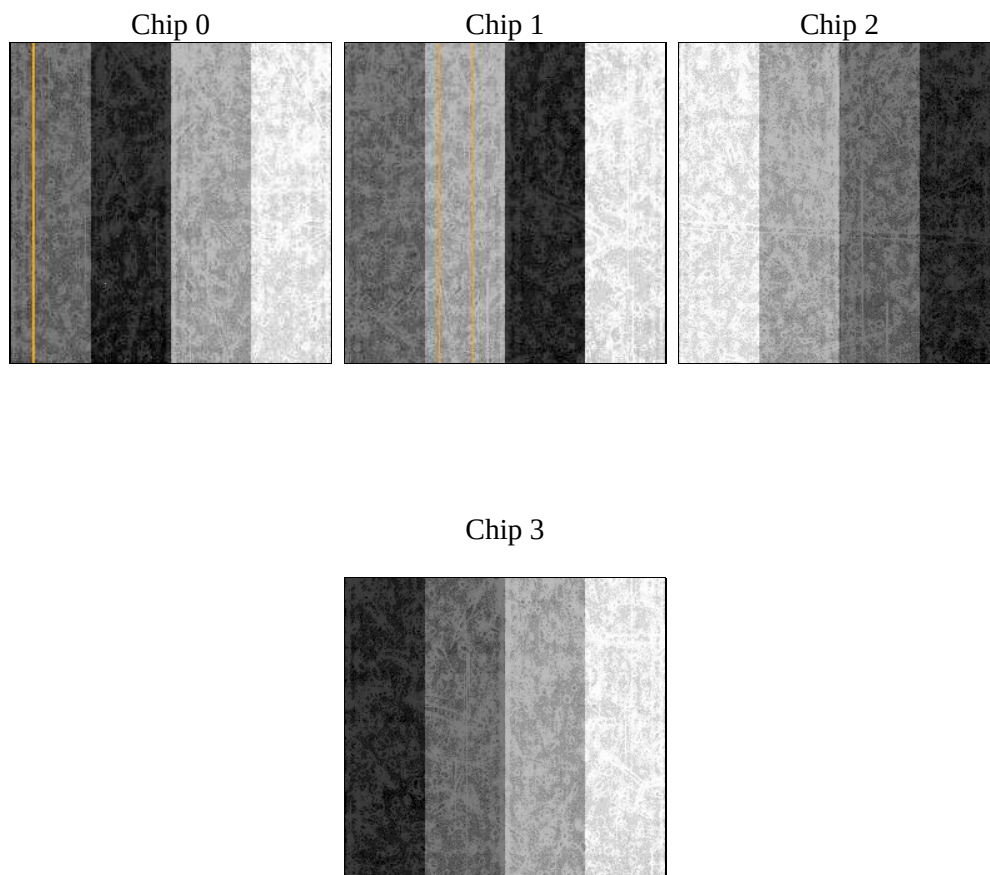
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	40069.990034342	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	40076.148835301	Sum of GTIs [s]
date	2019-05-03T01:16:36	Date and time of file creation	ontime1	40073.048884988	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	40079.37191546	Sum of GTIs [s]
			ontime3	40069.990034342	Sum of GTIs [s]
			l1events	1152263	Number of level 1 events

2.1.4 Events

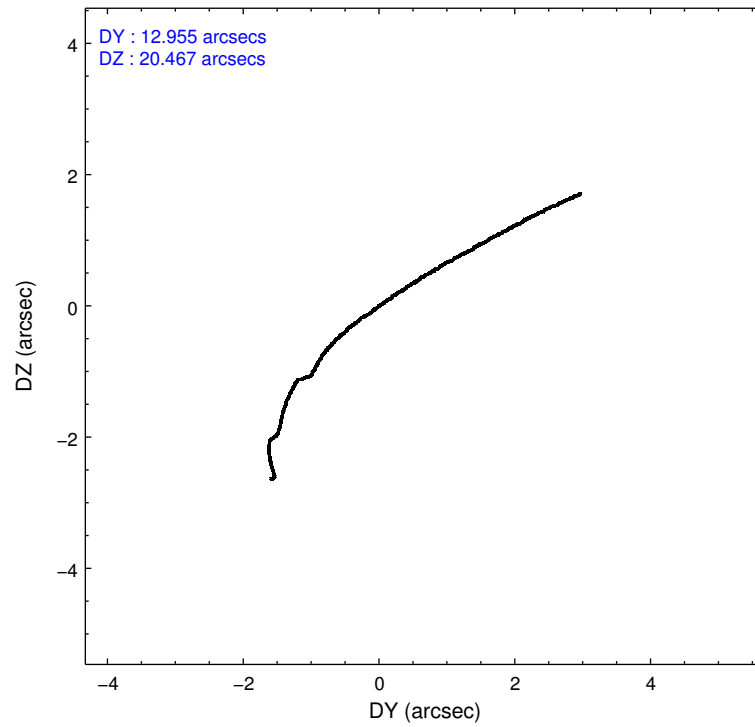
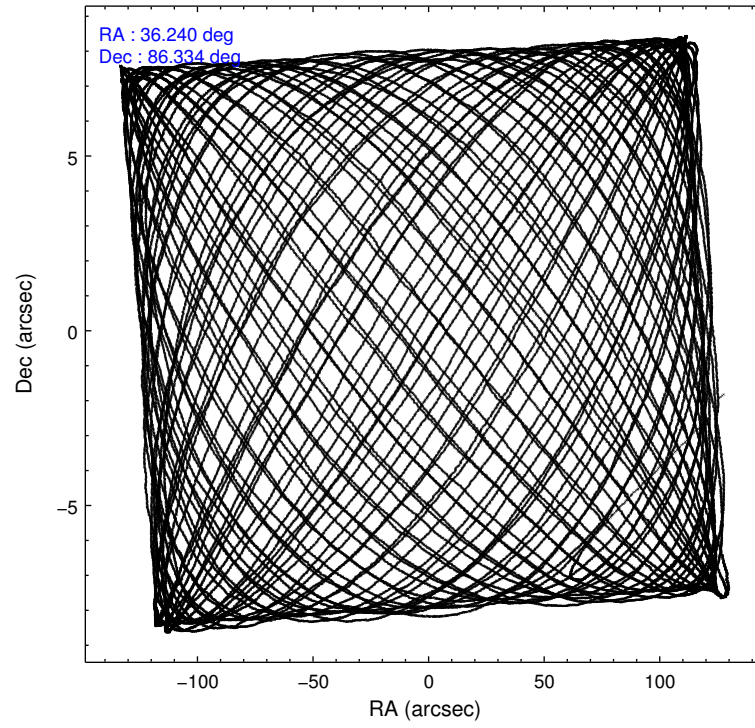
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	272391	283590	301677	294605
rejected events	236672	244130	266630	258069
rejected %	86%	86%	88%	87%

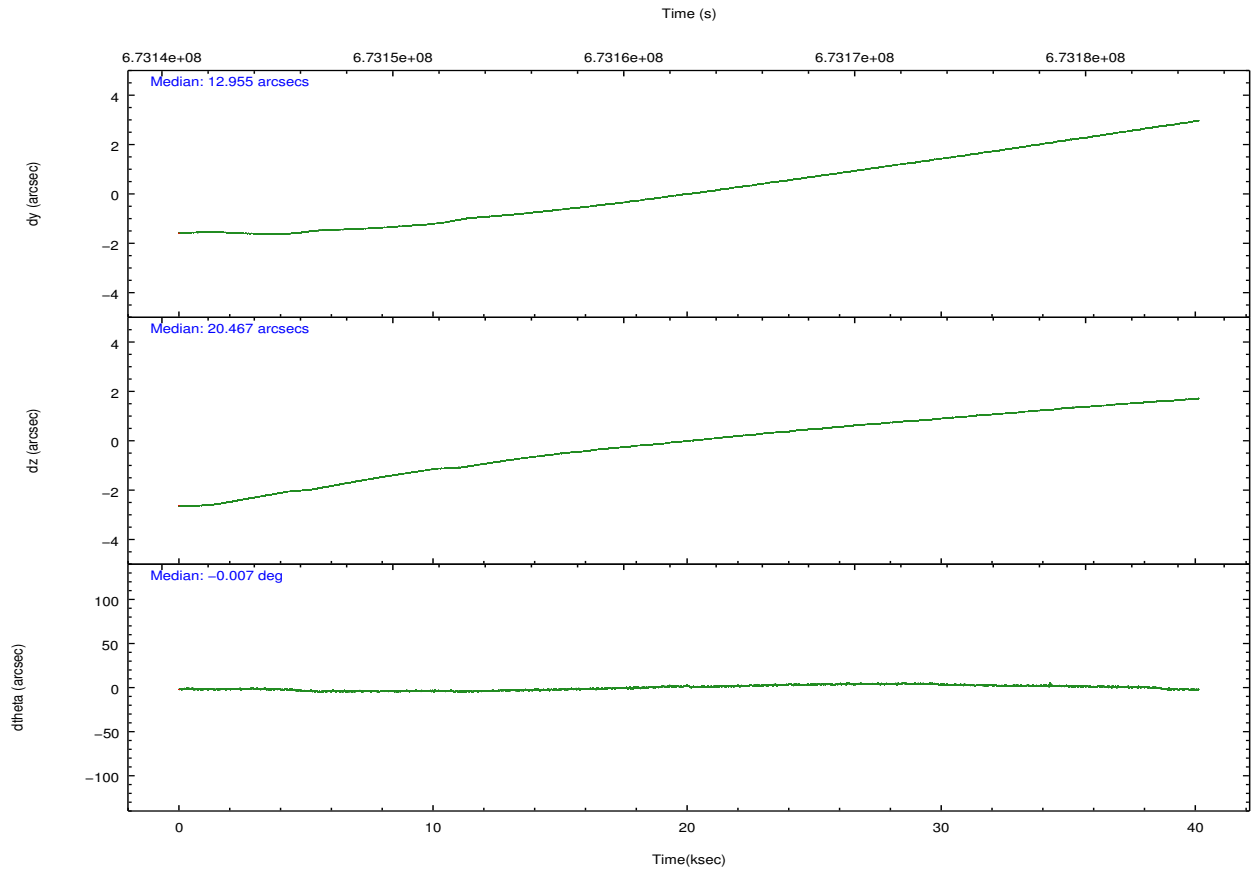
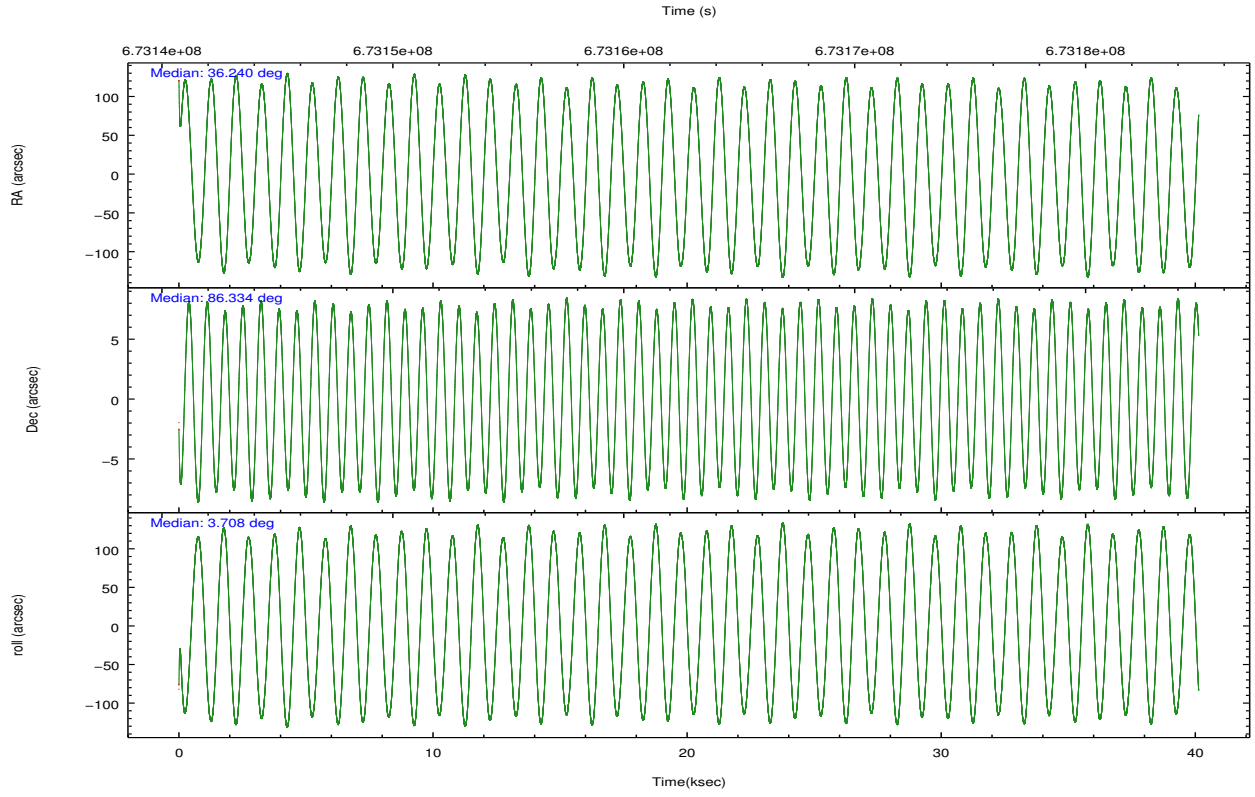
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	12163	13728	12579	14712
	4%	4%	4%	4%
grade 1 events	157	200	186	188
	0%	0%	0%	0%
grade 2 events	9358	10173	8695	7567
	3%	3%	2%	2%
grade 3 events	3561	3599	3430	3486
	1%	1%	1%	1%
grade 4 events	3310	3627	3556	3532
	1%	1%	1%	1%
grade 5 events	13066	13627	12826	14616
	4%	4%	4%	4%
grade 6 events	7329	8340	6795	7241
	2%	2%	2%	2%
grade 7 events	223447	230296	253610	243263
	82%	81%	84%	82%

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	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	35.883914	36.24067380052747	CCD I2 on	Y	Y
[deg] Pointing Dec	86.318868	86.33439540423331	CCD I3 on	Y	Y
[deg] Pointing Roll	3.866358	3.719030226094588	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	O1	N
[mm] SIM translation stage pos	-225.842463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	673142877.184000	673141720.87465	CCD S5 on	N	N
Observation start date	2019-05-02T00:06:48	2019-05-01T23:48:40	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	673182877.184000	673183809.93967	On-chip summing requested	N	N
Observation end date	2019-05-02T11:13:28	2019-05-02T11:30:09	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



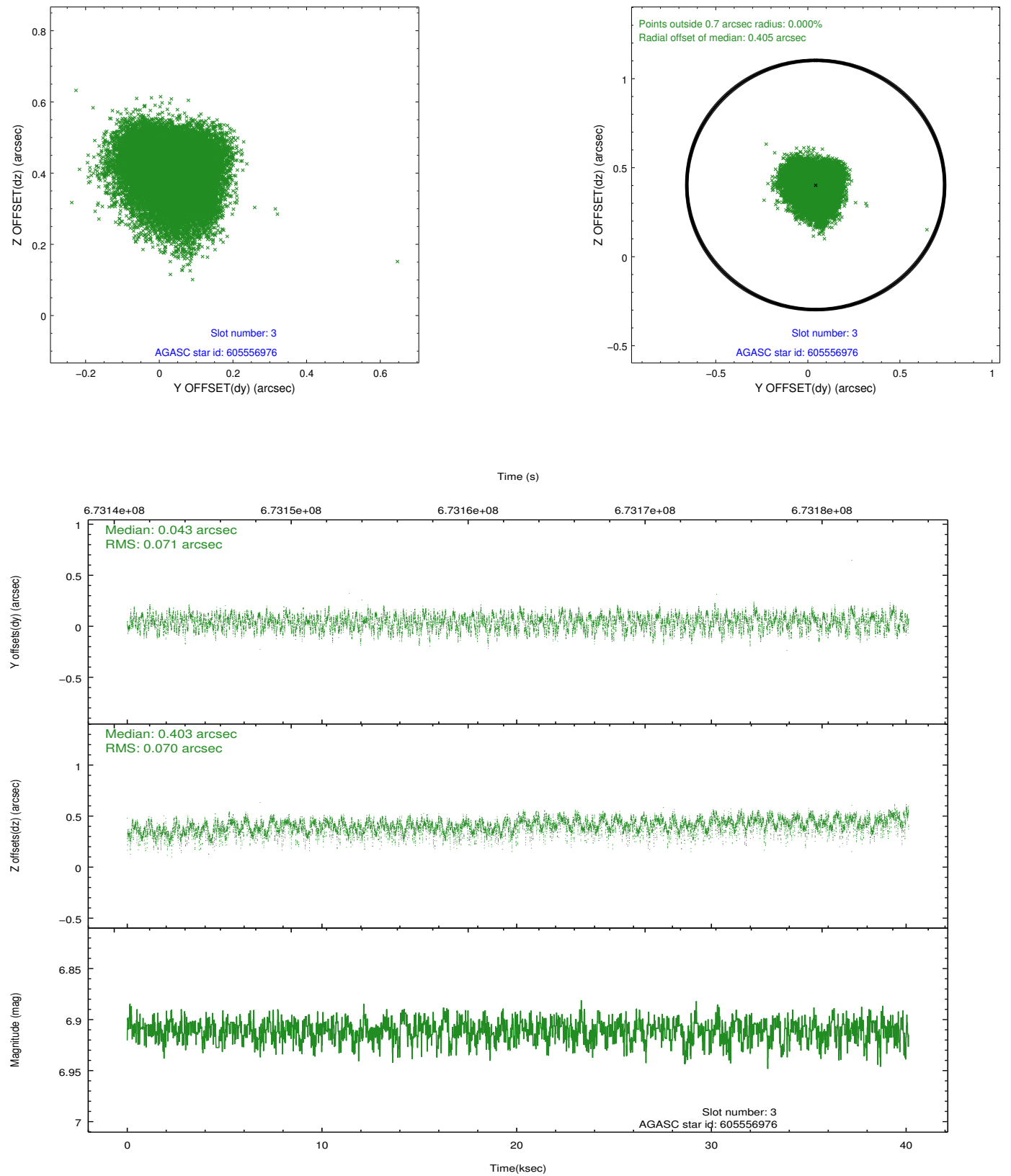


Slot Statistics

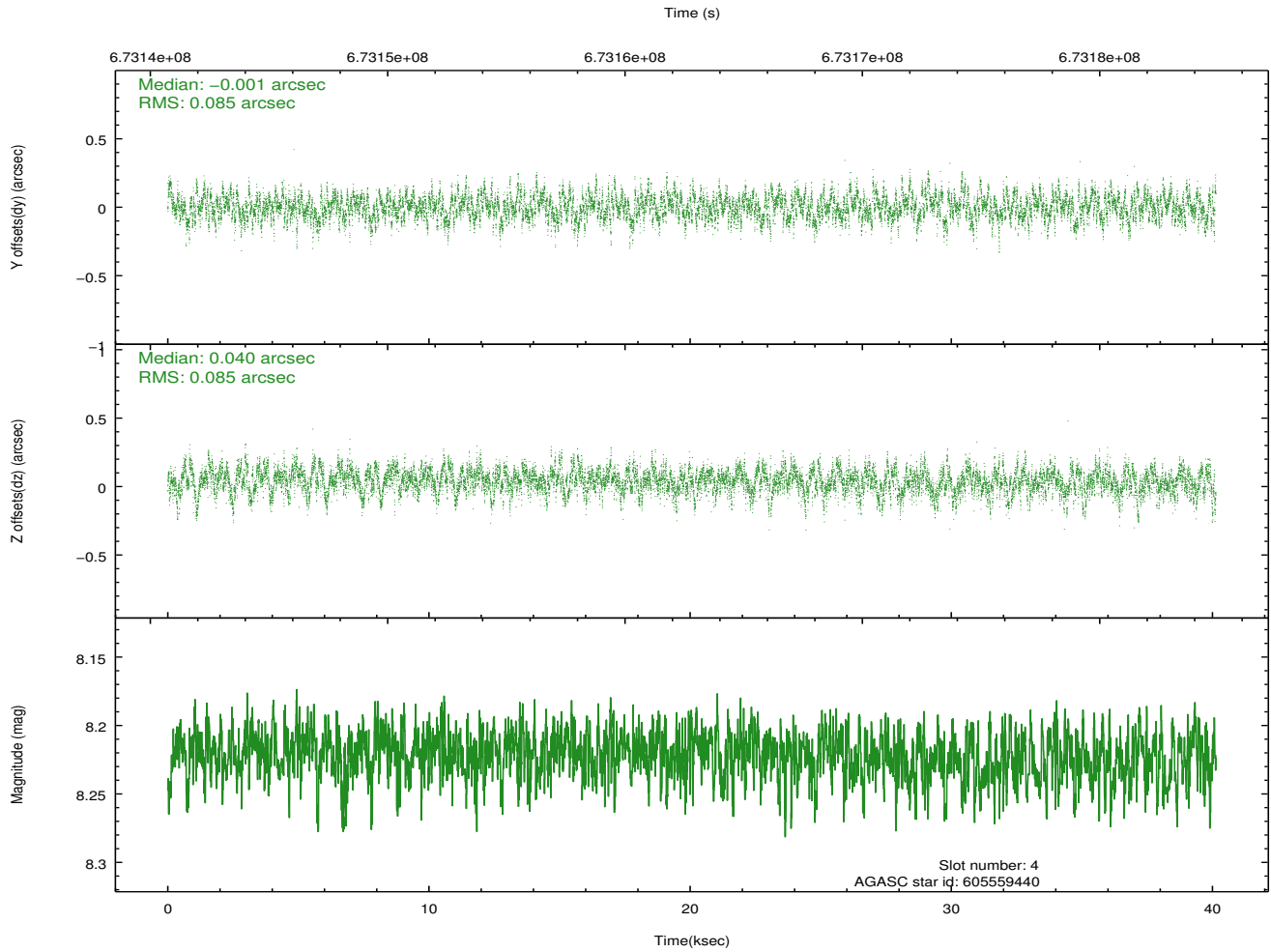
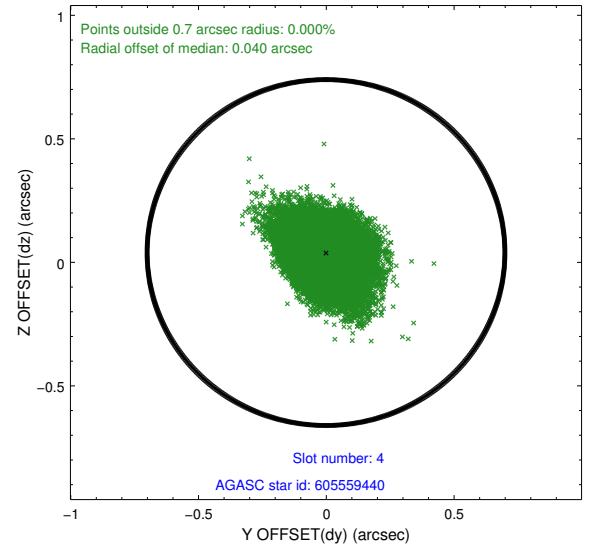
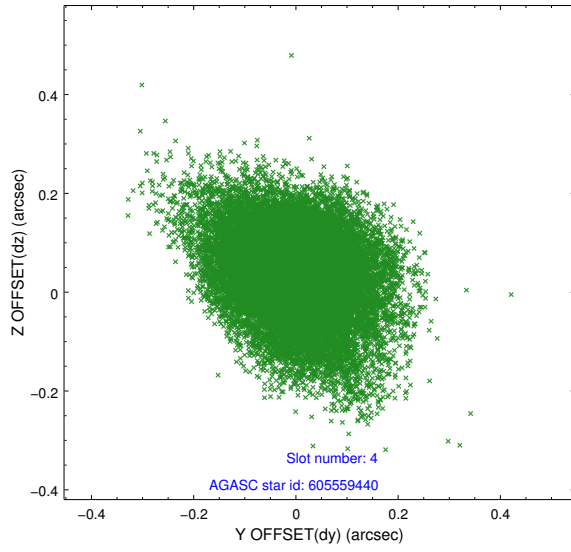
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.07	9788	1.000	0.169	-0.181	0.036	0.062	0.000000	0.000000	926.46	-1003
1	FID		ACIS-I-5	7.08	9789	1.000	-0.524	0.058	0.030	0.041	0.000000	0.000000	-1822.50	894
2	FID		ACIS-I-6	7.11	9789	1.000	0.264	0.192	0.037	0.062	0.000000	0.000000	391.85	1539
3	GUIDE	used	605556976	6.91	19577	1.000	0.043	0.403	0.107	0.167	34.748698	85.736157	-443.62	-2067
4	GUIDE	used	605559440	8.22	19567	1.000	-0.001	0.040	0.126	0.208	41.642951	85.799283	1393.03	-1892
5	GUIDE	used	606079672	8.64	19569	1.000	0.004	-0.287	0.108	0.179	35.254825	86.761950	-19.93	1600
6	GUIDE	used	606080224	8.34	19563	1.000	-0.006	-0.286	0.119	0.202	30.895322	86.931799	-805.55	2307
7	GUIDE	used	605950112	9.08	19485	1.000	-0.028	0.138	0.132	0.235	26.075476	86.738629	-1881.27	1813

2.4 Star Slots

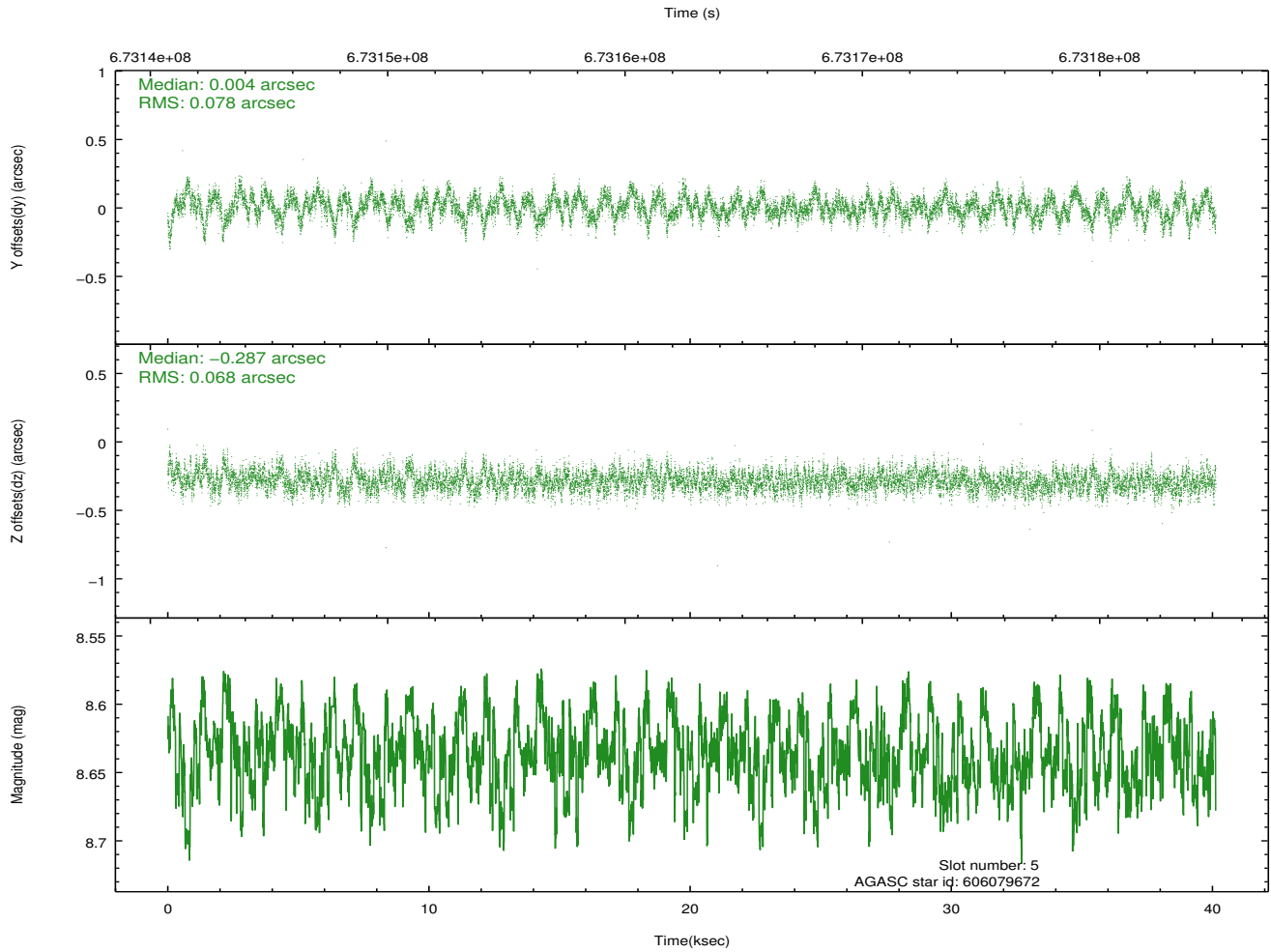
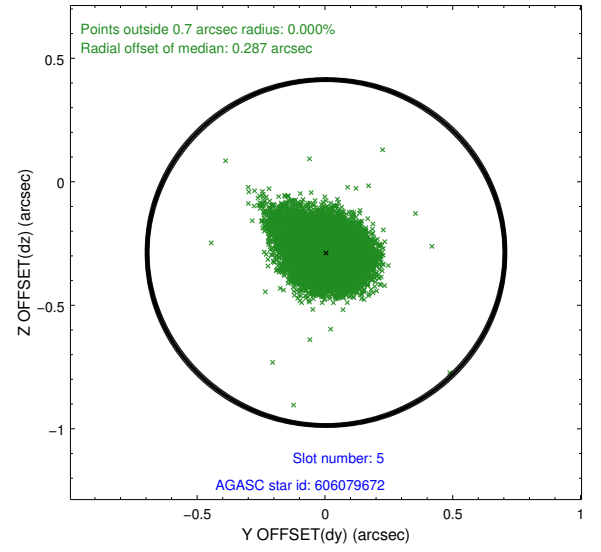
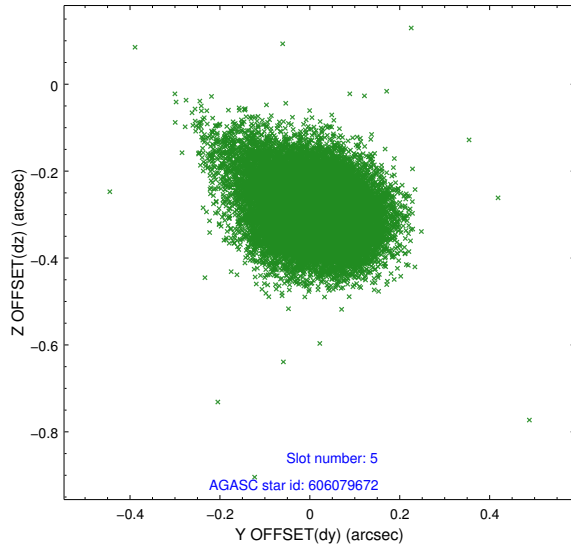
2.4.1 Slot 3



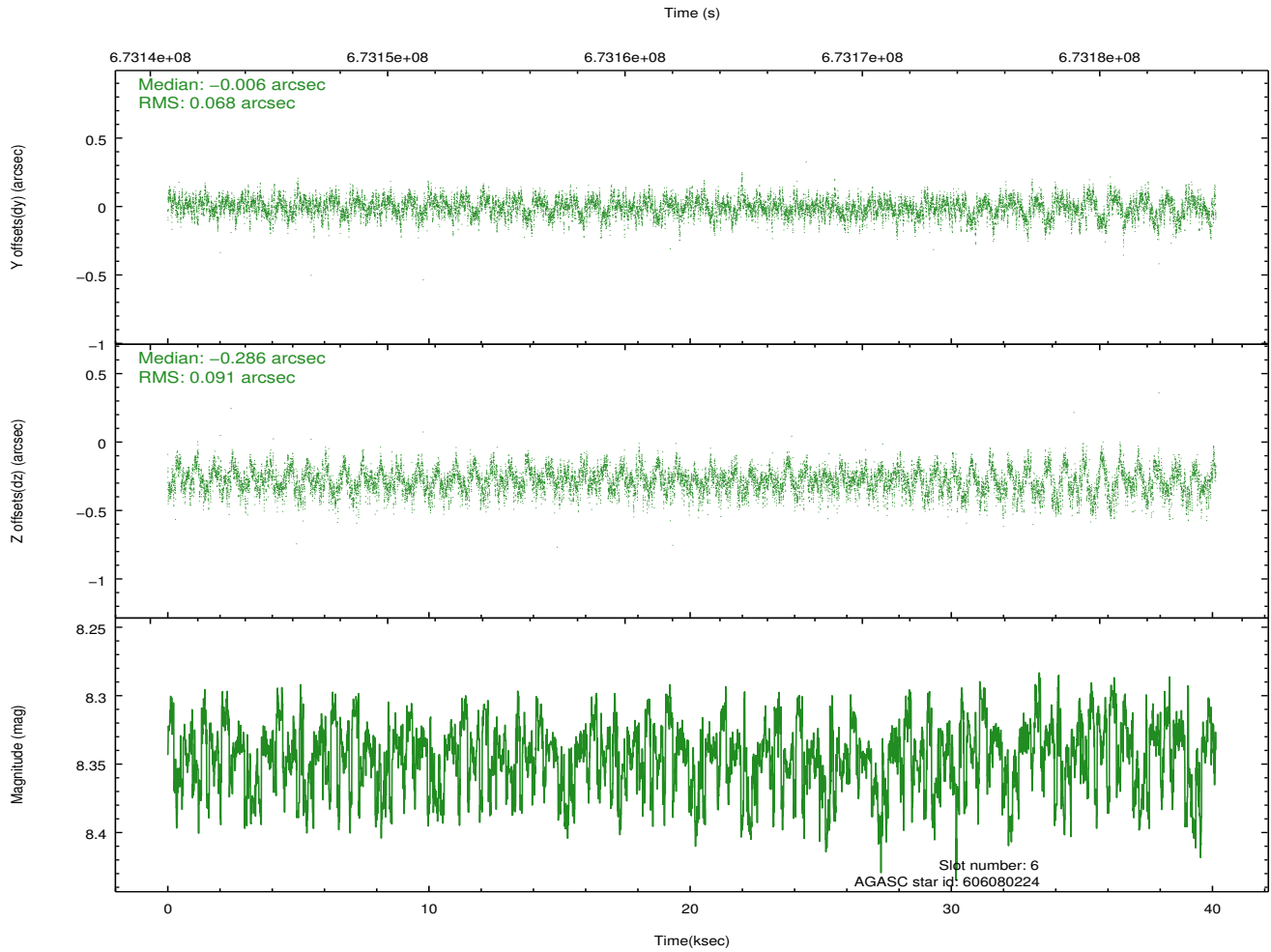
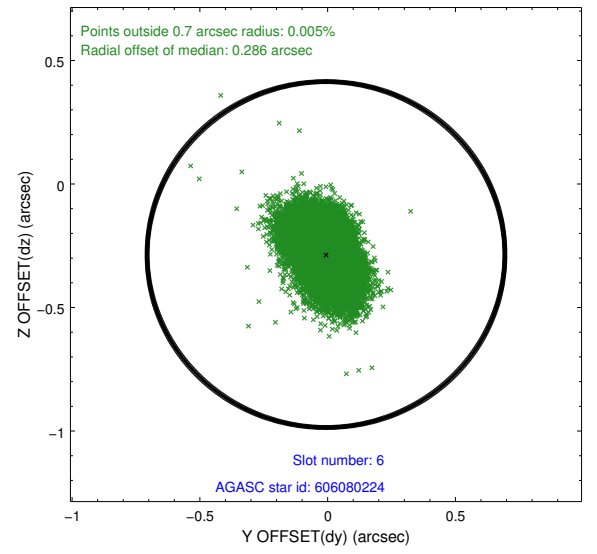
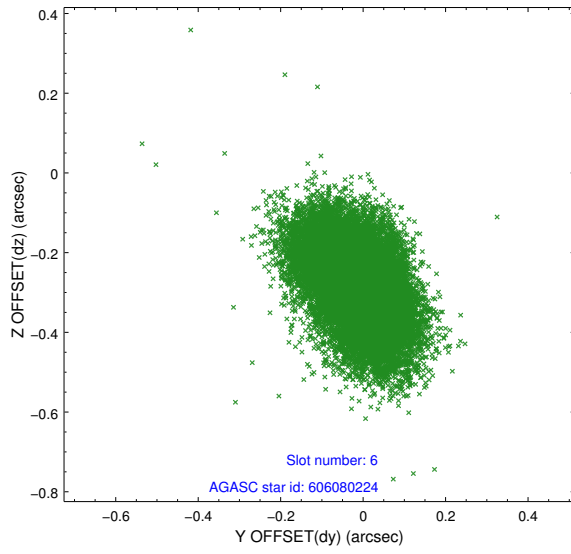
2.4.2 Slot 4



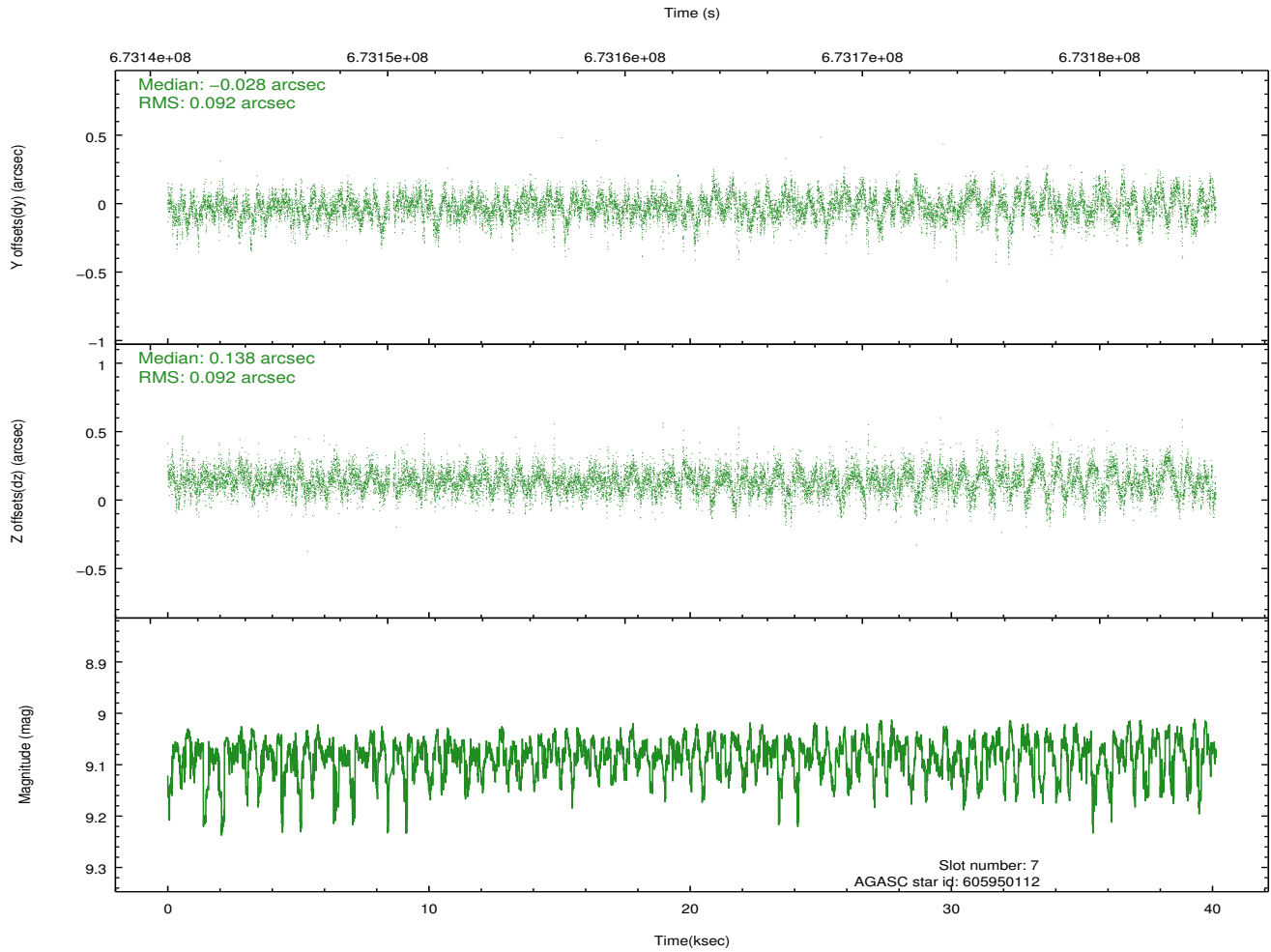
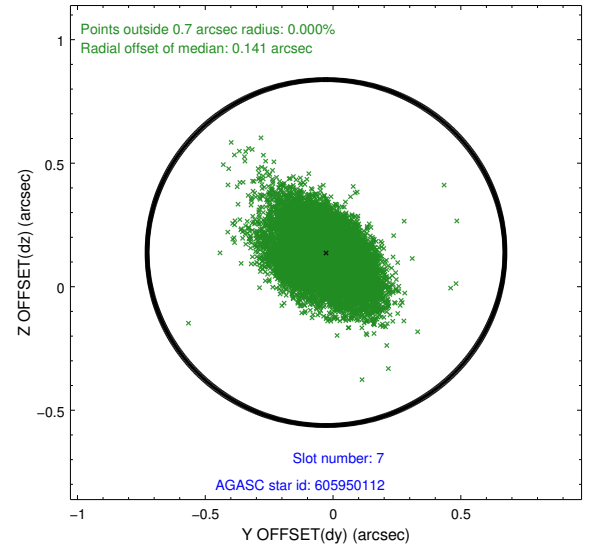
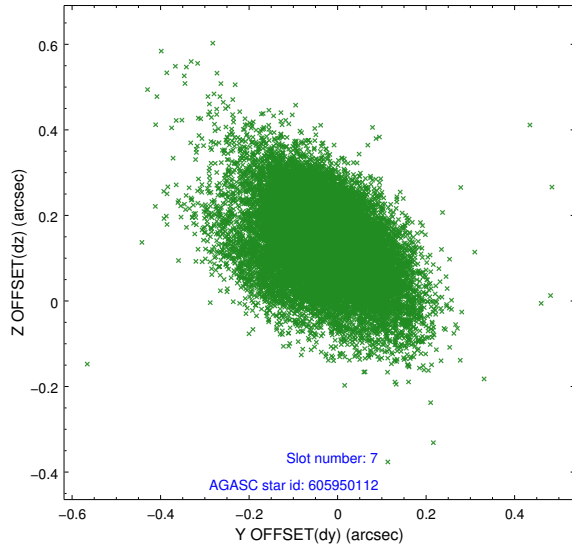
2.4.3 Slot 5



2.4.4 Slot 6

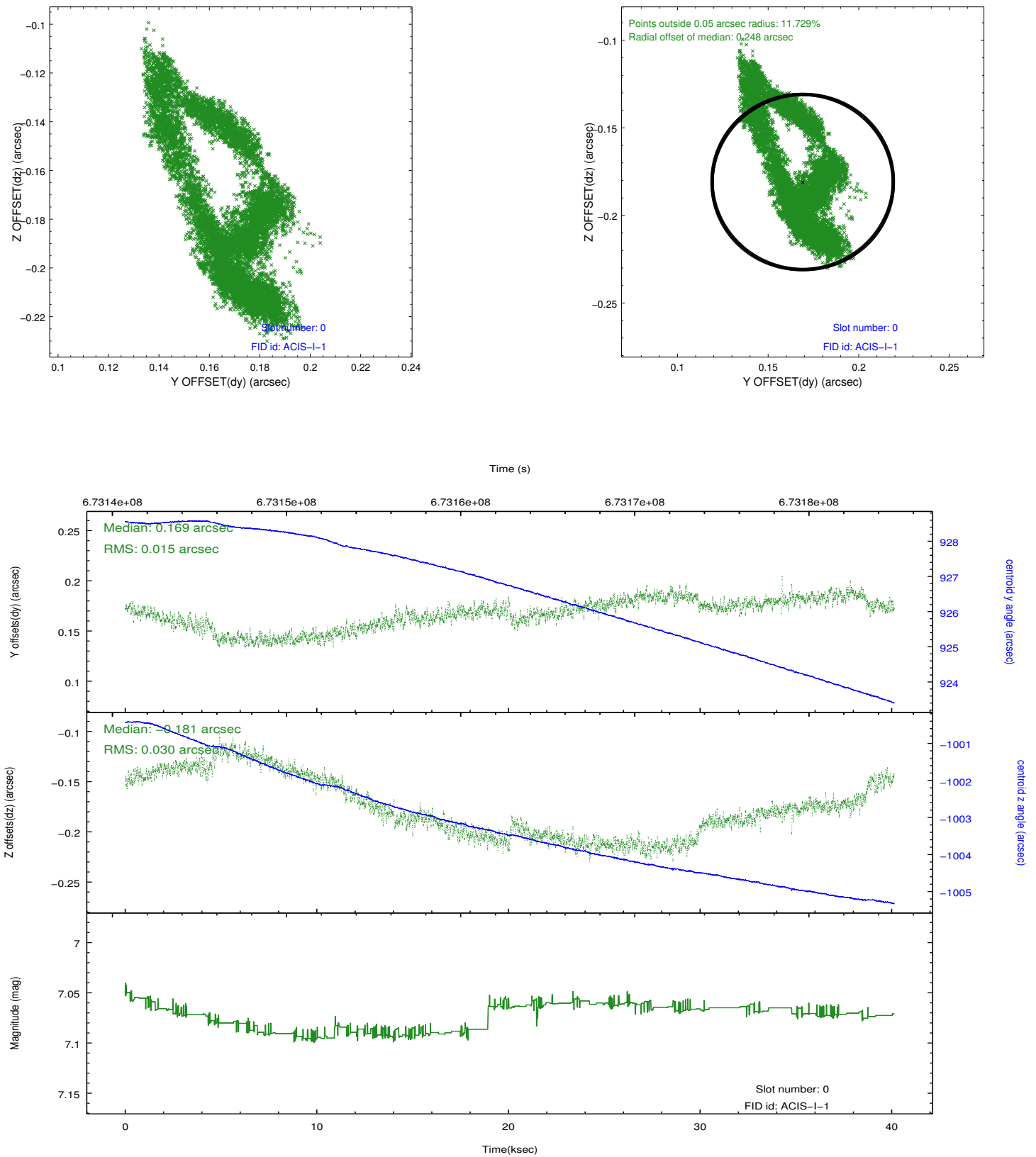


2.4.5 Slot 7

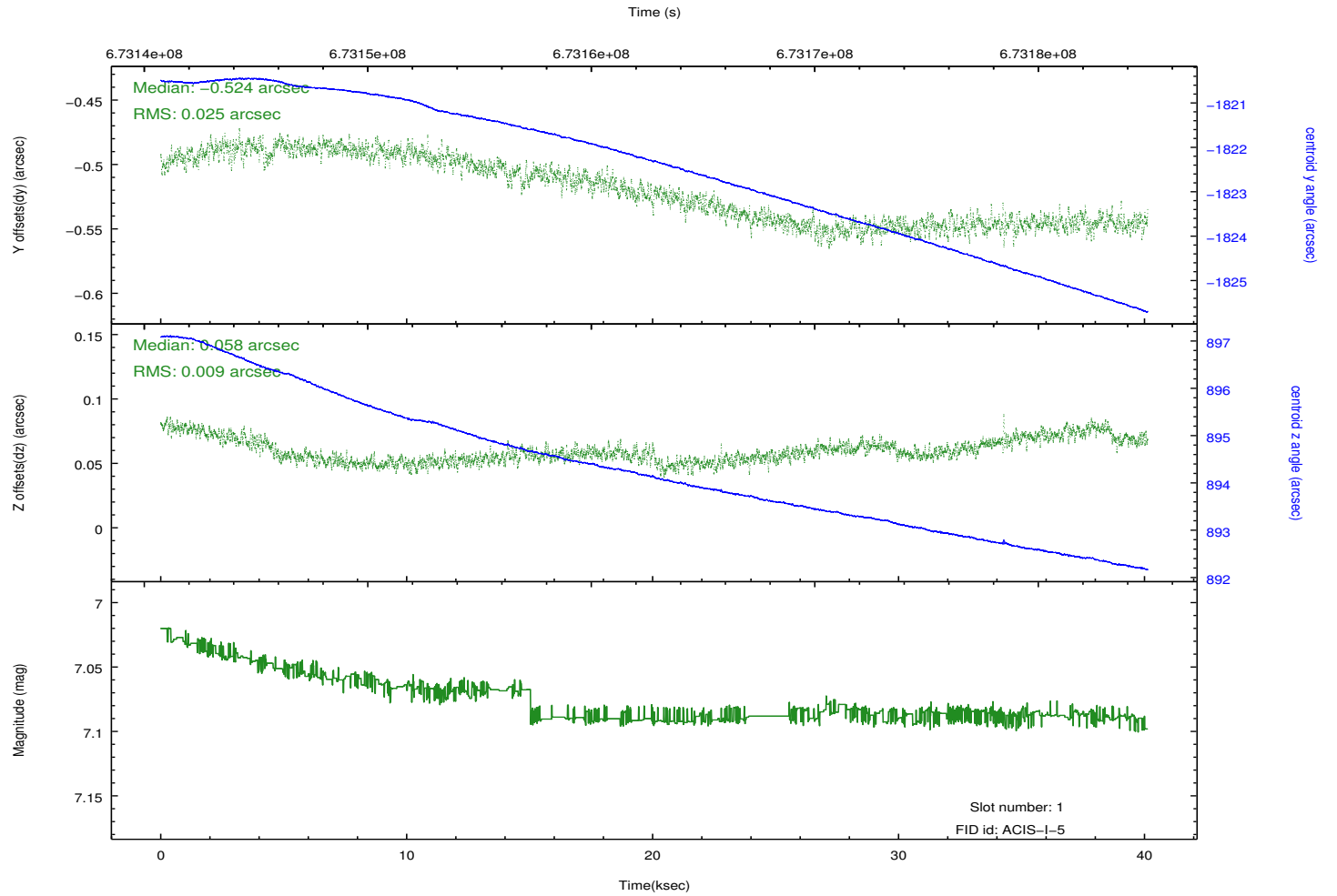
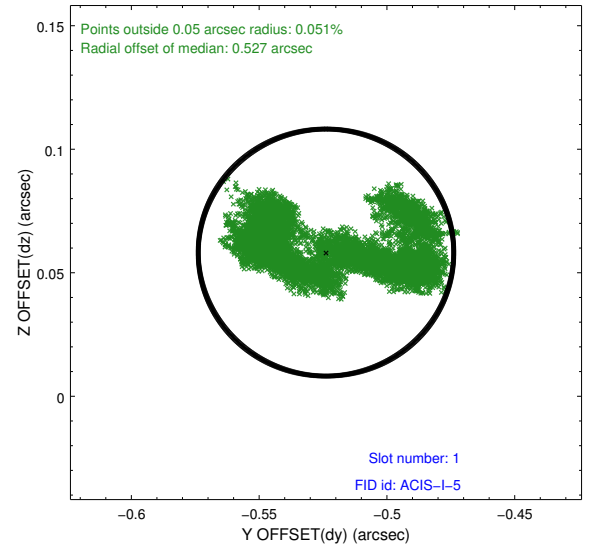
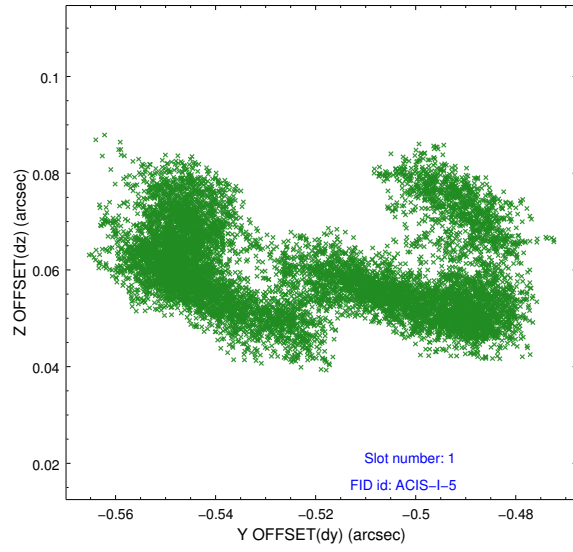


2.5 FID Slots

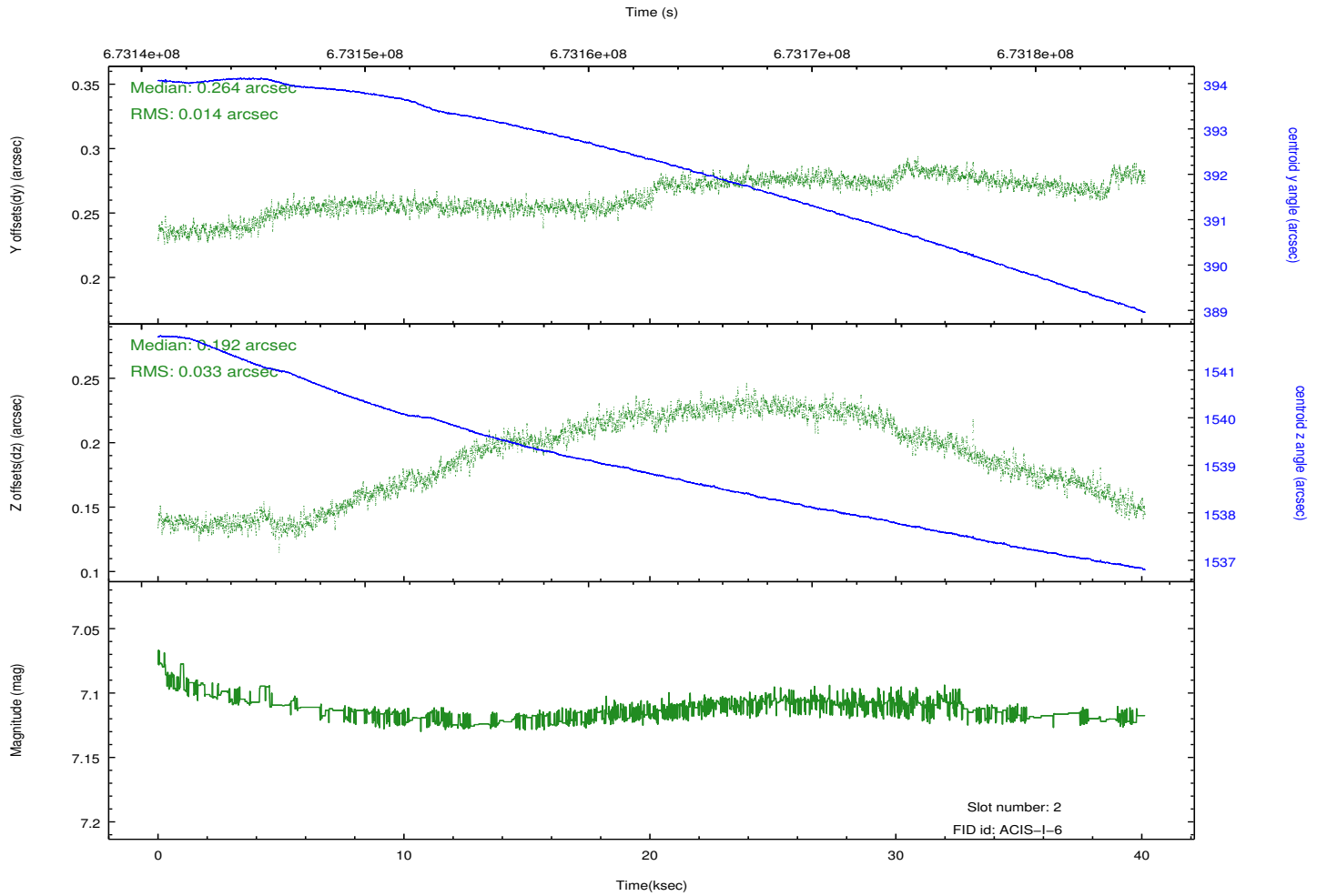
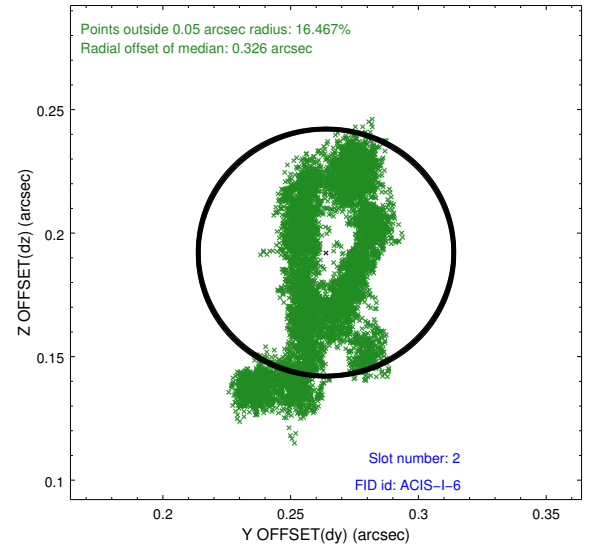
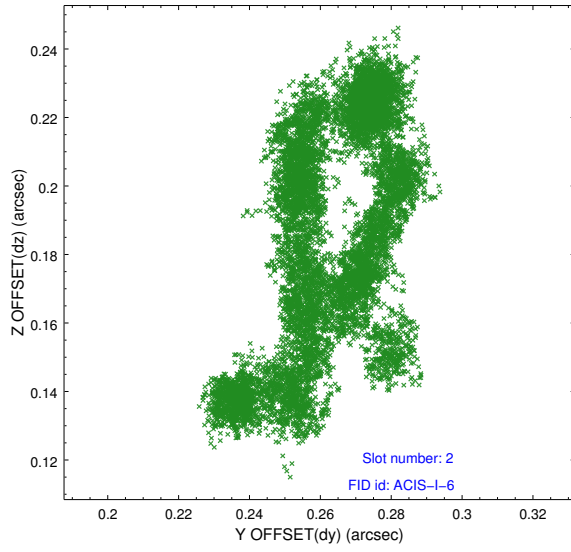
2.5.1 Slot 0



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)	2019.05.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.069990034342

A.2 Comments

Optional chip S2 not included.