

V&V Reference Report

L2 ASCDS Version : 10.6.4

Observation 21268 - L2 Version 1
Chandra X-Ray Center

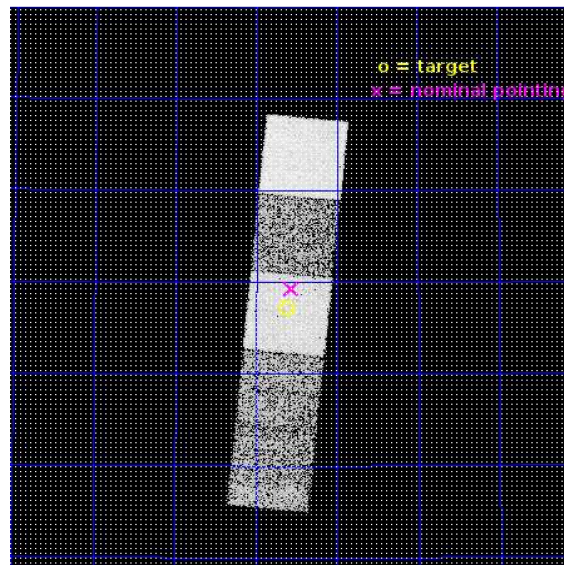
L2 Processing Date : Aug 27 2018

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1 Front

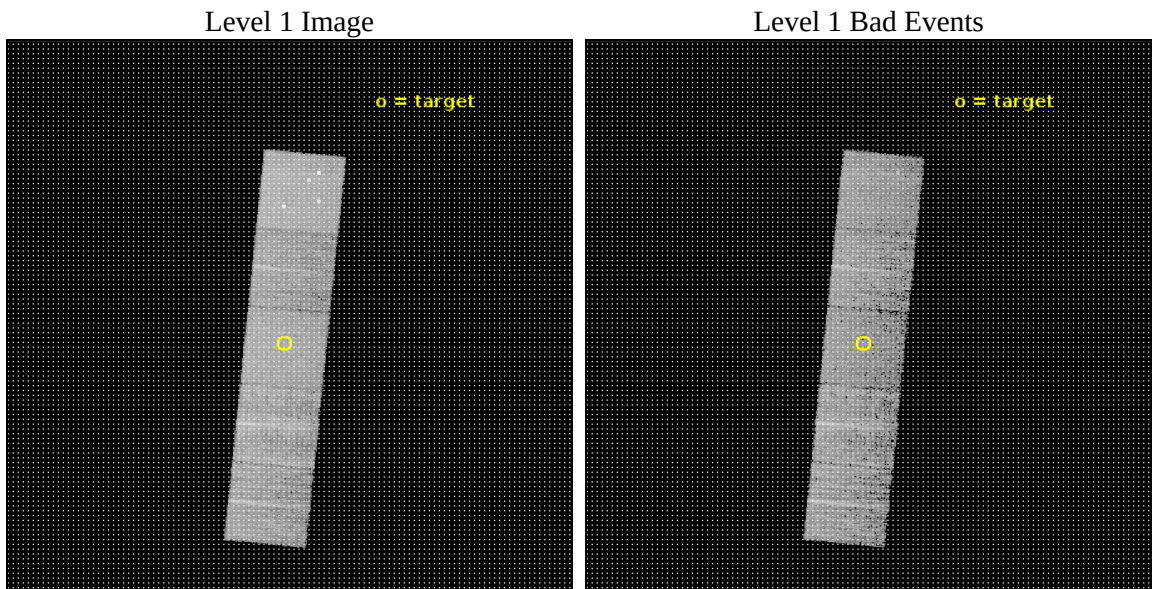
seq_num	100172	Sequence number
obs_id	21268	Observation id
title	Chandra Observations of the High-Heliospheric Latitude Comet 21P/Giacobini-Zinner	Proposal title
observer	Bradford Snios	Principal investigator
object	21P/Giacobini-Zinner	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	65.405953	Observer's specified target RA [deg]
dec_targ	55.617986	Observer's specified target Dec [deg]
ra_nom	65.391572450402	Nominal RA [deg]
dec_nom	55.655046610985	Nominal Dec [deg]
roll_nom	95.608565517021	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6057.4000467062	Sum of GTIs [s]
livetime	5978.2556557029	Livetime [s]
ontime5	6057.4000467062	Sum of GTIs [s]
ontime6	6051.1179562807	Sum of GTIs [s]
ontime7	6057.4000467062	Sum of GTIs [s]
ontime8	6057.4000467062	Sum of GTIs [s]
ontime9	6051.1180156469	Sum of GTIs [s]
l2events	74693	Number of level 2 events



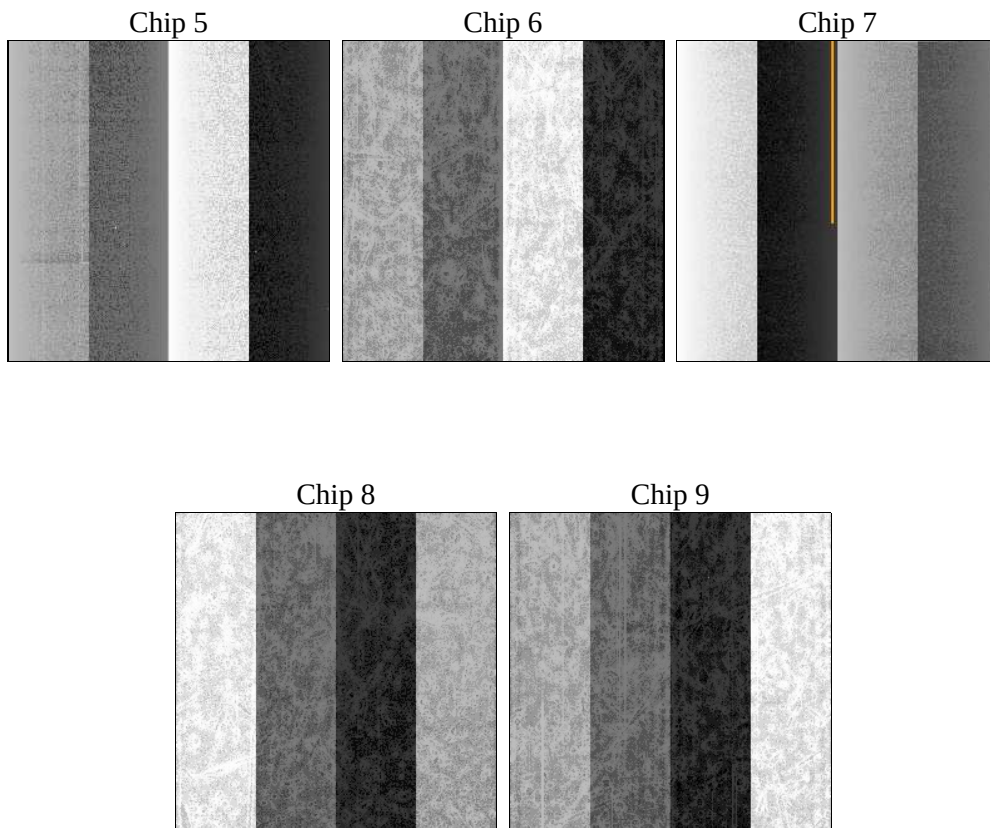
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4	Processing system revision	ontime	6057.4000467062	Sum of GTIs [s]
caldsver	4.7.8	 	ontime5	6057.4000467062	Sum of GTIs [s]
date	2018-08-27T05:23:09	Date and time of file creation	ontime6	6051.1179562807	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	6057.4000467062	Sum of GTIs [s]
			ontime8	6057.4000467062	Sum of GTIs [s]
			ontime9	6051.1180156469	Sum of GTIs [s]
			l1events	296455	Number of level 1 events

2.1.4 Events

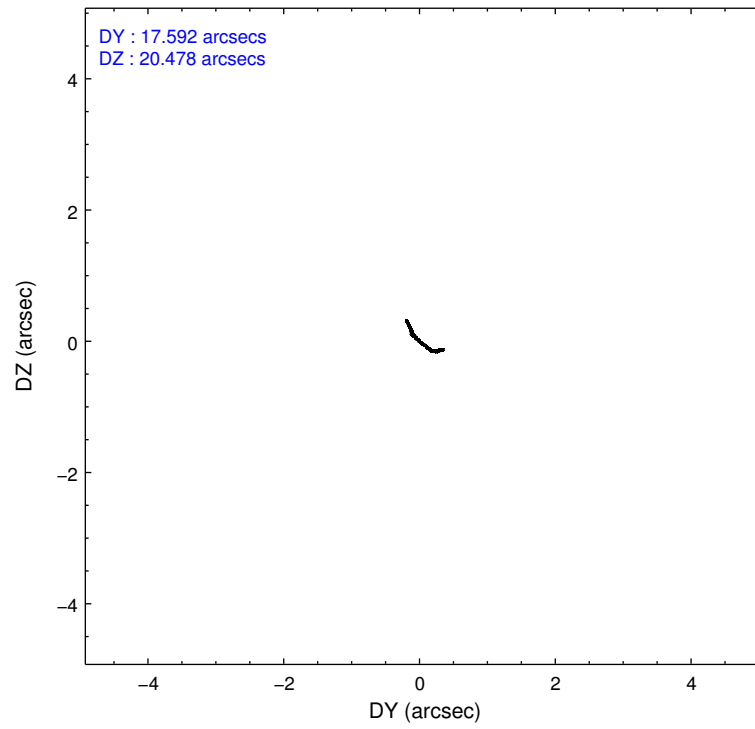
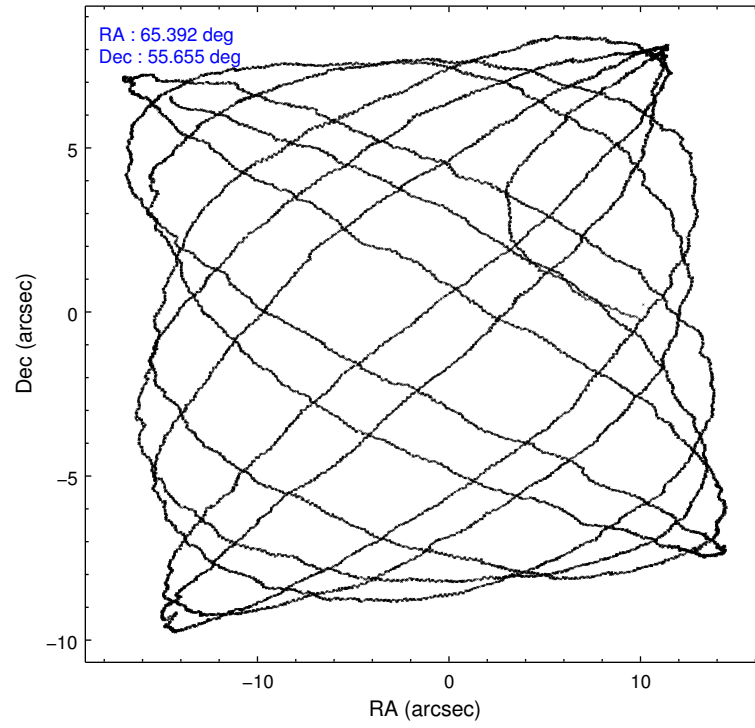
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	79073	47203	60579	60579	49021
rejected events	39563	41713	34555	45393	42988
rejected %	50%	88%	57%	74%	87%

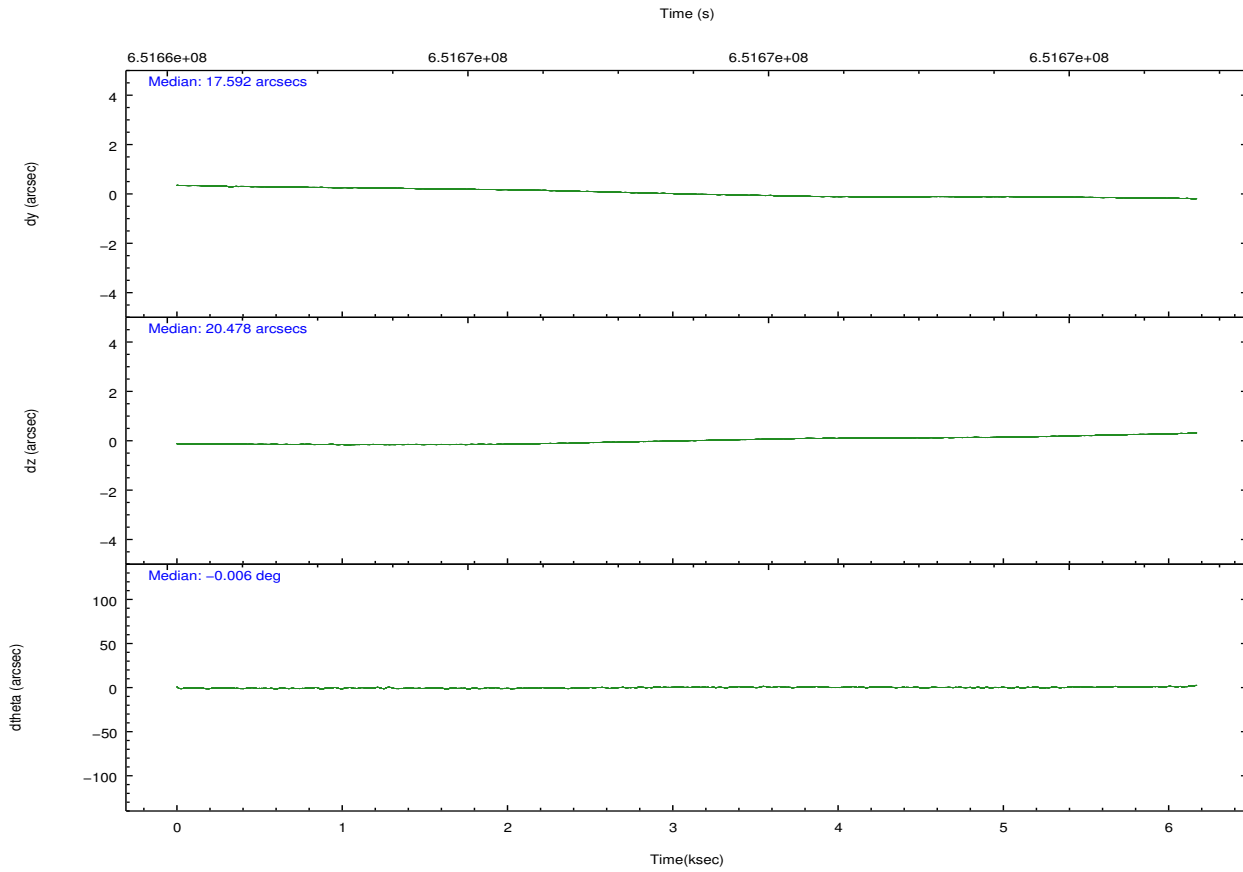
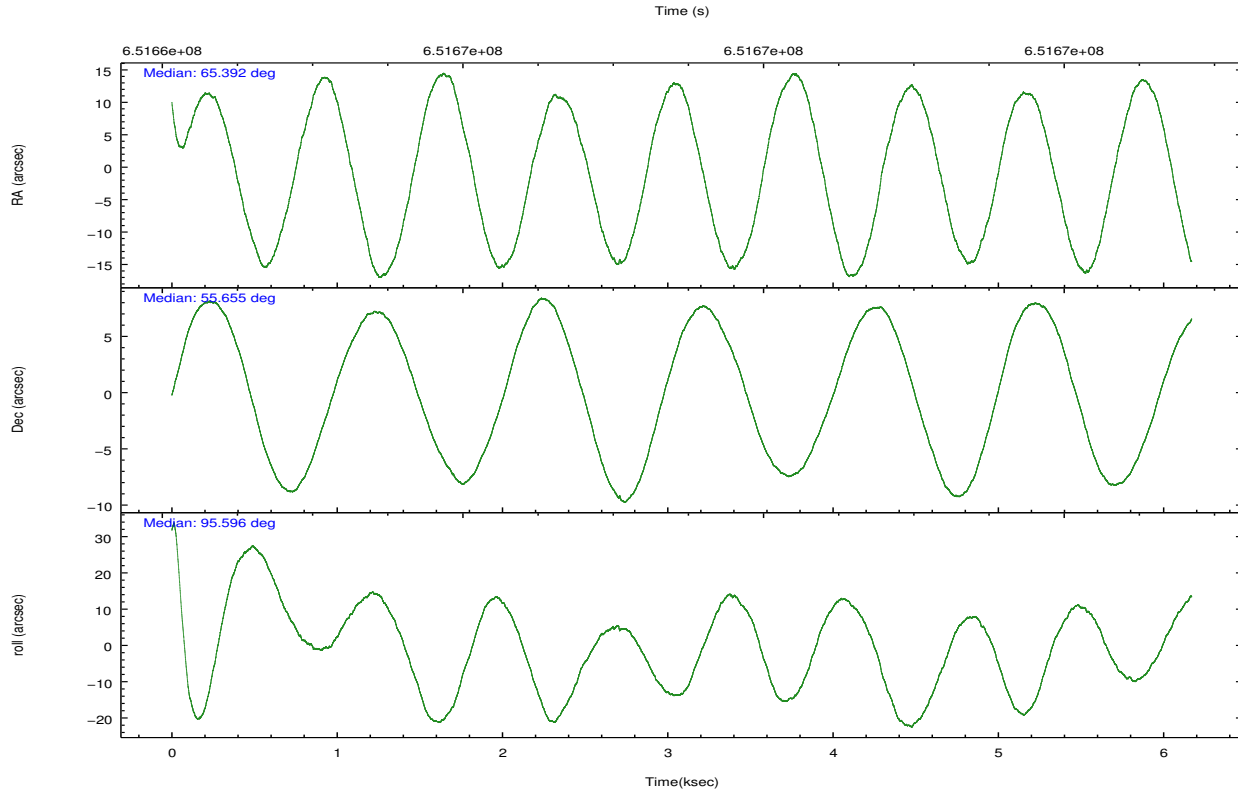
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	5611	1913	2256	4659	2263
	7%	4%	3%	7%	4%
grade 1 events	281	24	98	61	22
	0%	0%	0%	0%	0%
grade 2 events	12349	1373	5616	3734	1326
	15%	2%	9%	6%	2%
grade 3 events	1118	501	2113	1574	624
	1%	1%	3%	2%	1%
grade 4 events	1003	528	2001	1426	573
	1%	1%	3%	2%	1%
grade 5 events	4726	2120	5762	3194	2403
	5%	4%	9%	5%	4%
grade 6 events	20217	1283	14580	4132	1374
	25%	2%	24%	6%	2%
grade 7 events	33768	39461	28153	41799	40436
	42%	83%	46%	68%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-56789	ACIS-56789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	65.420280	65.39157245040195	CCD I2 on	N	N
[deg] Pointing Dec	55.632901	55.65504661098473	CCD I3 on	N	N
[deg] Pointing Roll	95.428137	95.60856551702116	CCD S0 on	N	N
[s] Window start time (MET)	651196869.184000	651196869.184000	CCD S1 on	O1	Y
[s] Window stop time (MET)	655776069.184000	655776069.184000	CCD S2 on	Y	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S3 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S4 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S5 on	O2	Y
[mm] SIM translation stage offset	0	0.00754346686406393	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	651664536.184000	651663449.77622	On-chip summing requested	N	N
Observation start date	2018-08-26T09:54:27	2018-08-26T09:37:29	Subarray requested	NONE	NONE
[s] Observation end time (MET)	651670536.184000	651670670.38915	Alternating exposures requested	N	N
Observation end date	2018-08-26T11:34:27	2018-08-26T11:37:50	[s] Primary exposure time	0.000000	3.1
Read mode	TIMED	TIMED			

2.3 Aspect



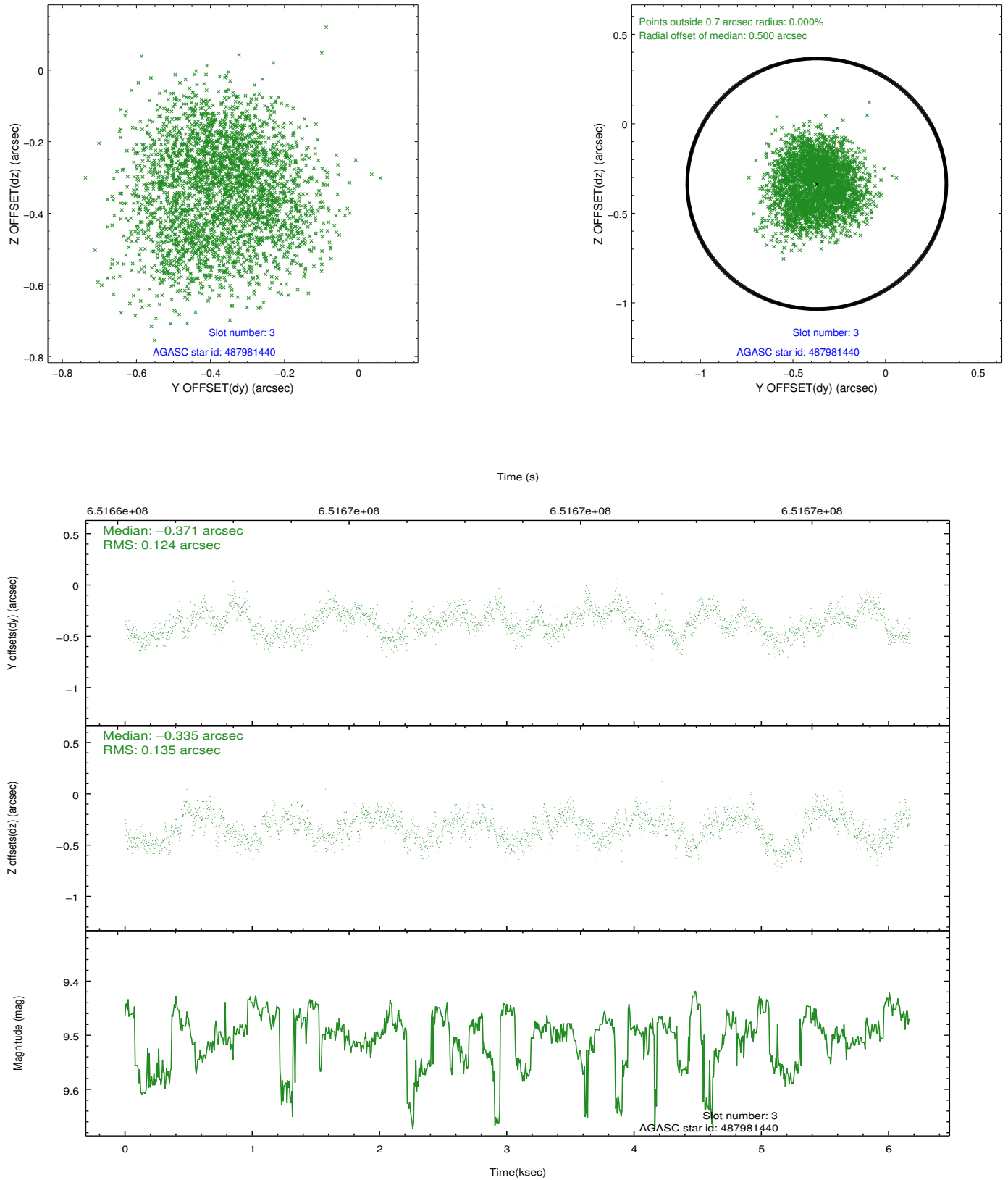


Slot Statistics

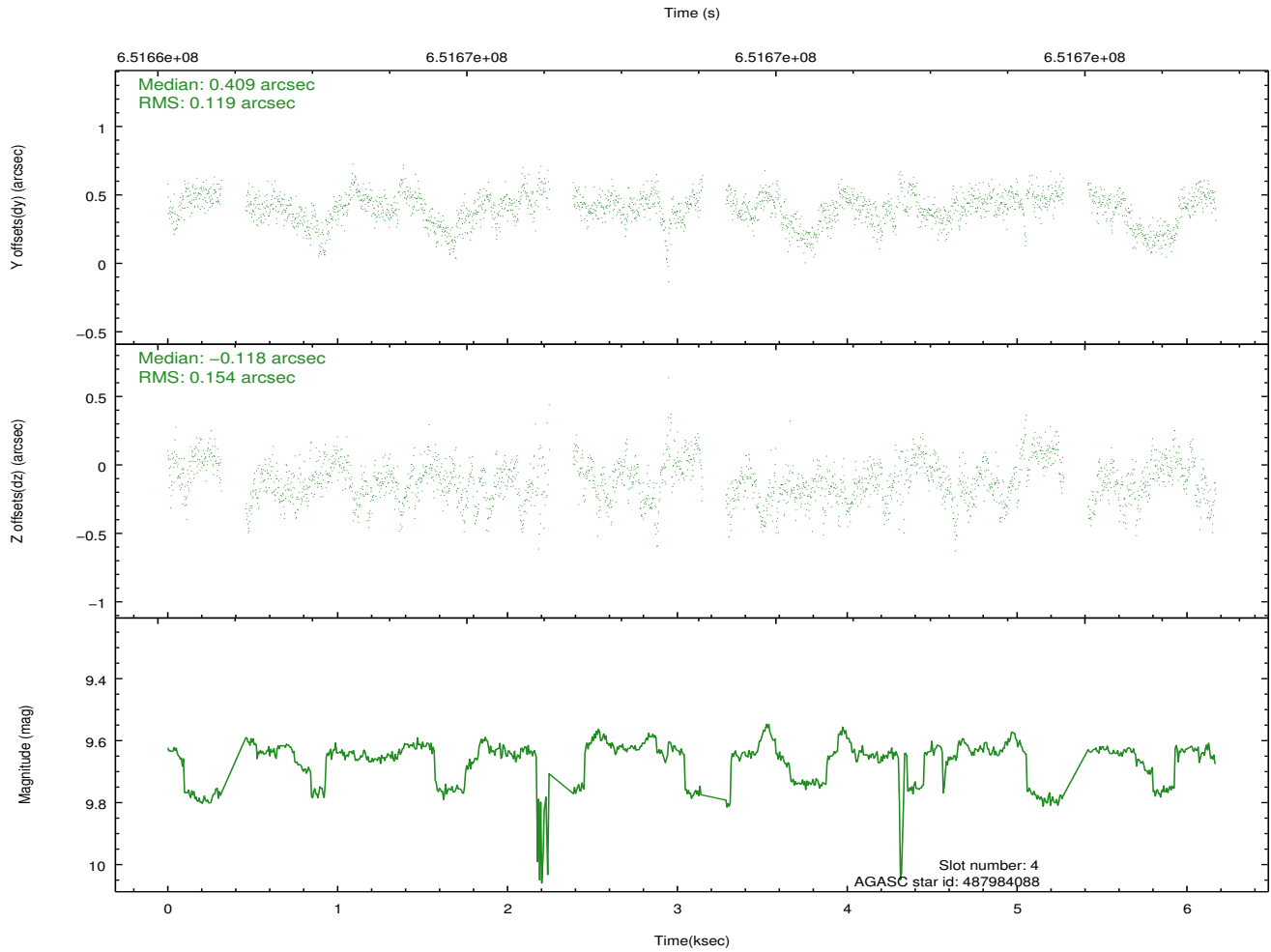
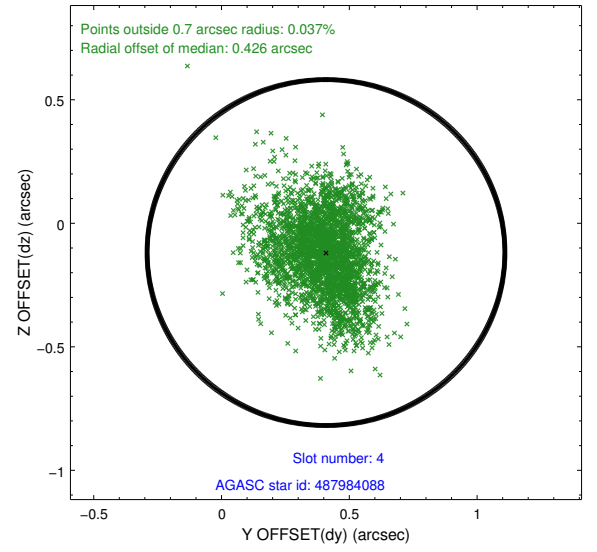
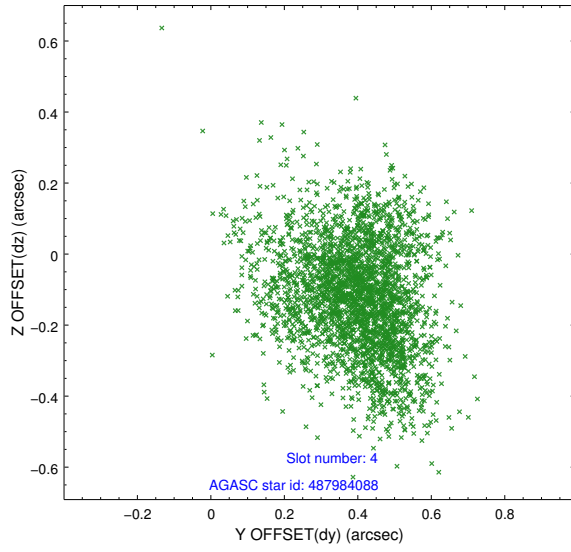
	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	m
	FID		ACIS-S-2	7.00	1505	1.000	-0.208	-0.084	0.008	0.013	0.000000	0.000000	-770.84	-17
	FID		ACIS-S-4	7.12	1504	1.000	0.485	0.123	0.010	0.019	0.000000	0.000000	2142.64	1
	FID		ACIS-S-5	7.10	1504	1.000	-0.308	-0.031	0.013	0.022	0.000000	0.000000	-1822.60	1
	GUIDE	used	487981440	9.50	3006	1.000	-0.371	-0.335	0.199	0.299	64.607546	56.174716	2105.48	14
	BAD	used	487984088	9.65	2713	1.000	0.409	-0.118	0.206	0.339	64.371316	55.403807	-601.64	22
	GUIDE	used	487986504	8.69	3011	1.000	-0.013	0.434	0.165	0.272	66.270060	56.088835	1484.20	-18
	GUIDE	used	487987528	8.17	3009	1.000	-0.068	0.247	0.109	0.195	66.082375	55.991093	1164.72	-14
	GUIDE	used	487984920	8.19	3010	1.000	0.083	-0.242	0.125	0.207	65.279802	55.505250	-429.46	3

2.4 Star Slots

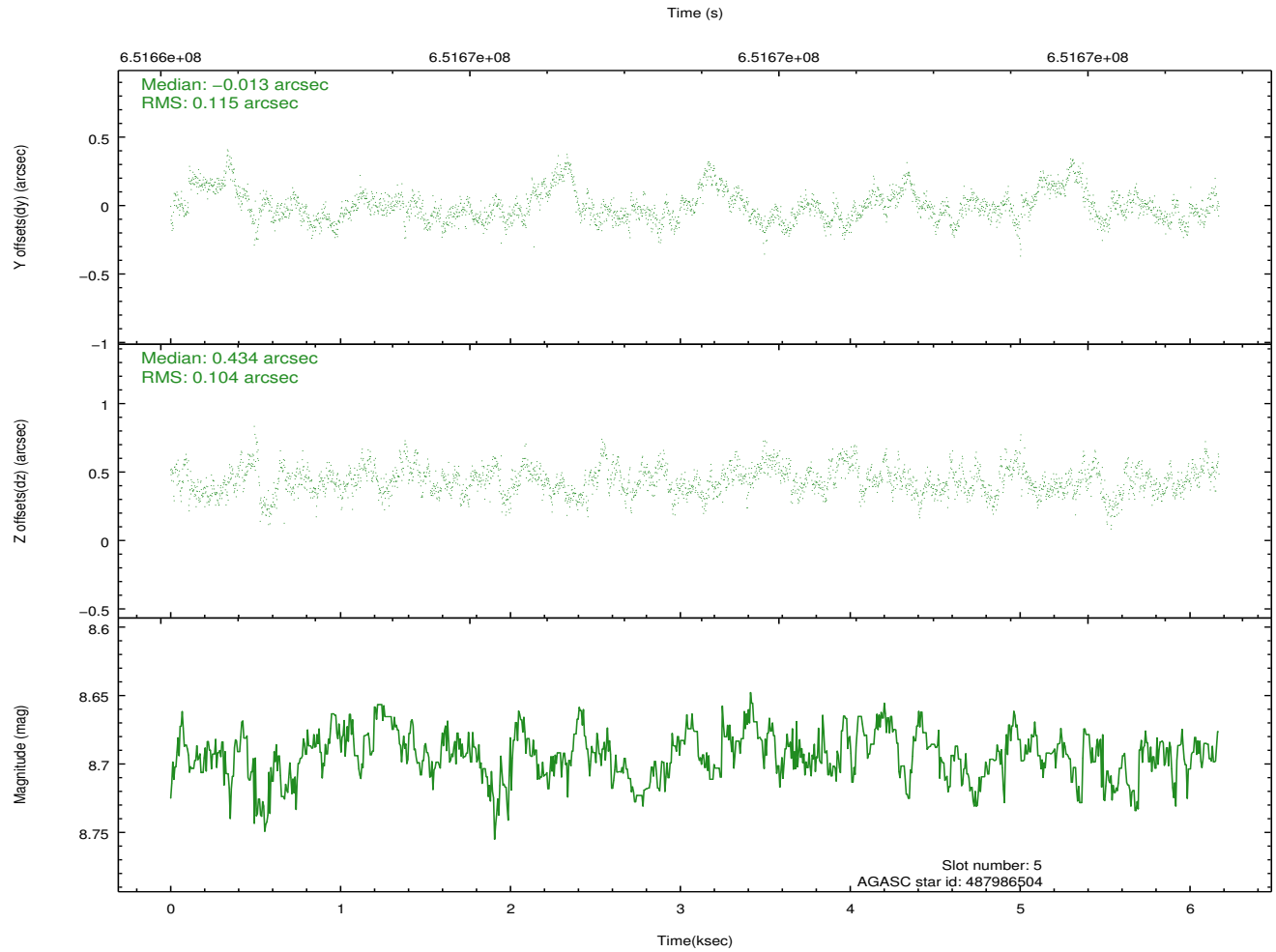
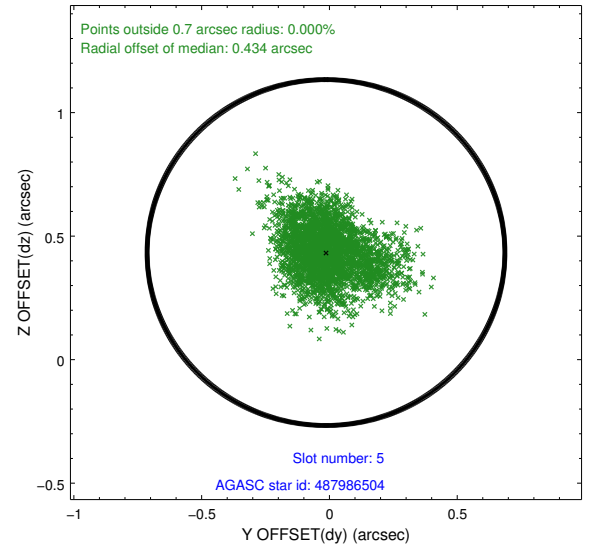
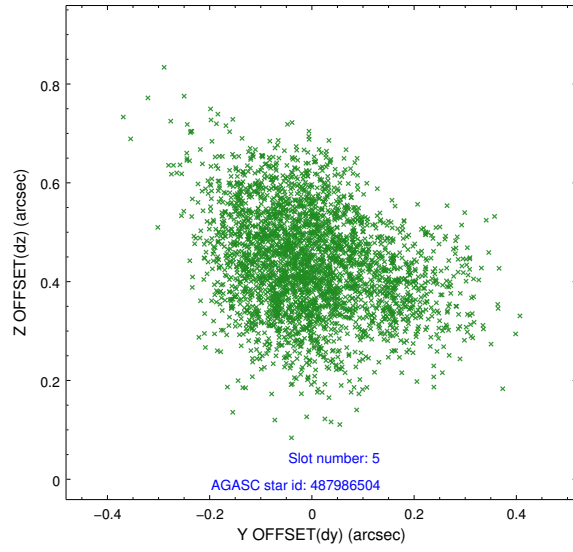
2.4.1 Slot 3



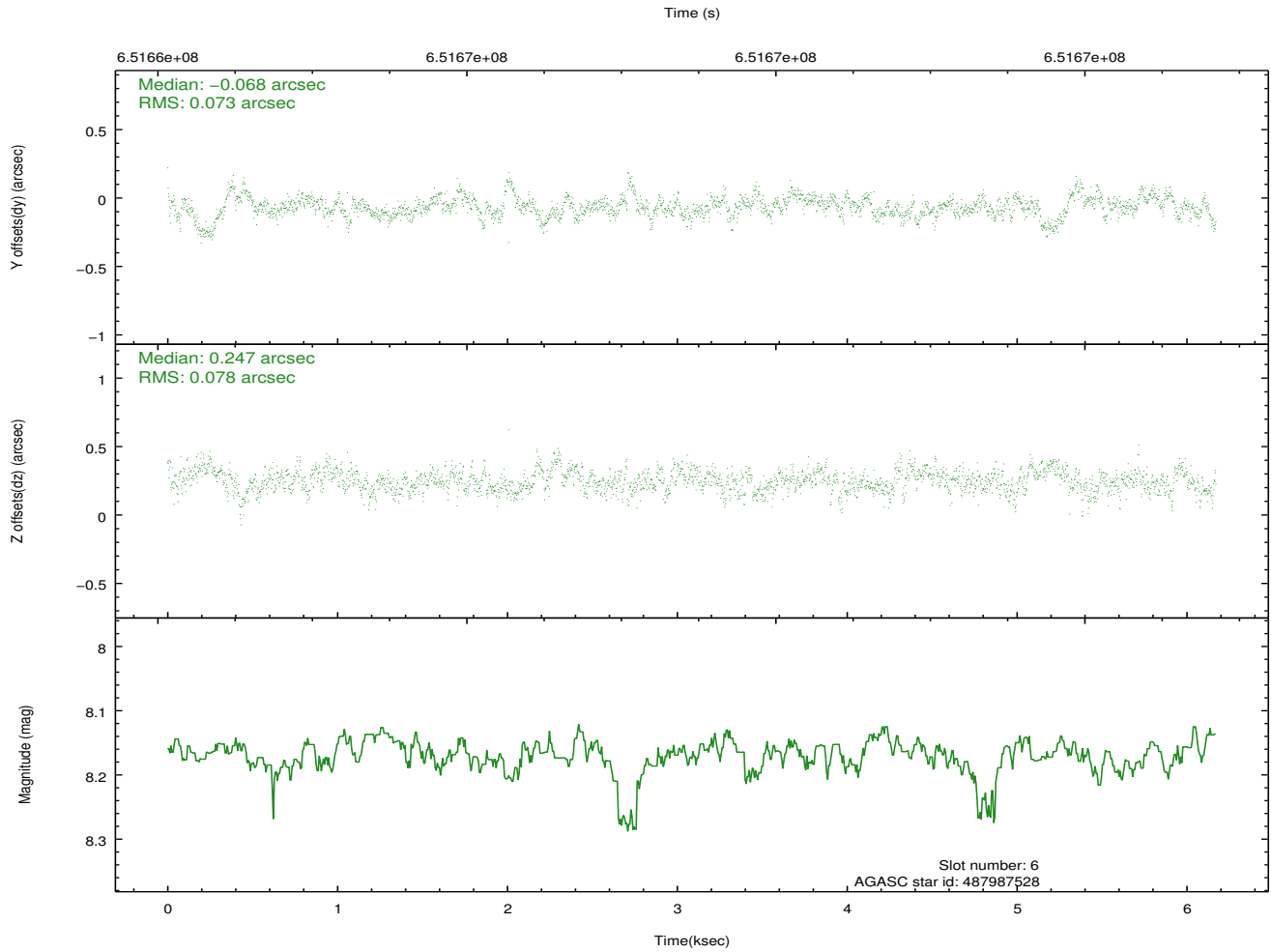
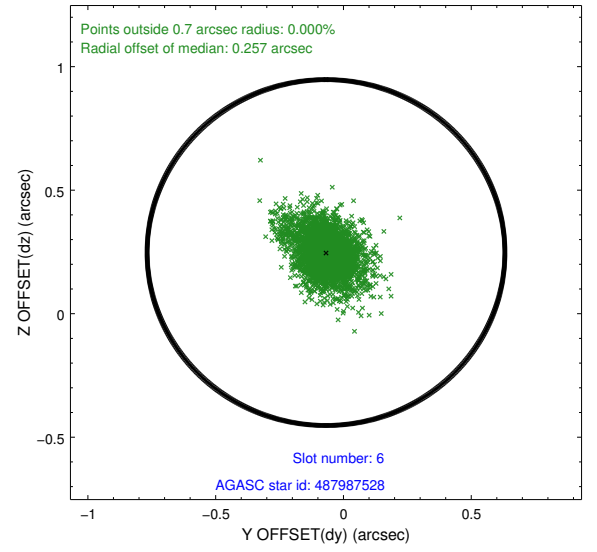
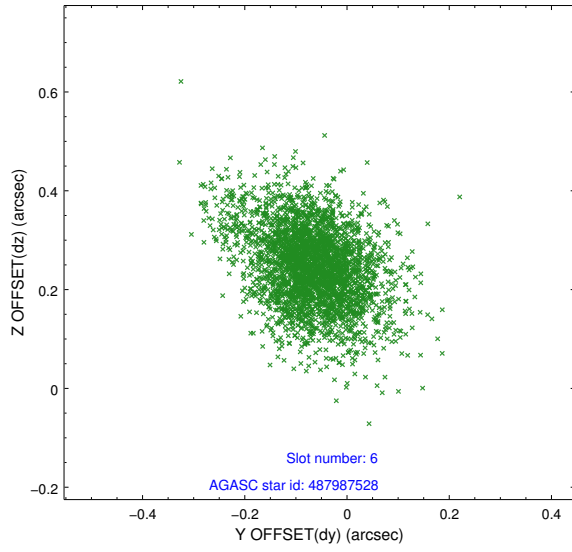
2.4.2 Slot 4



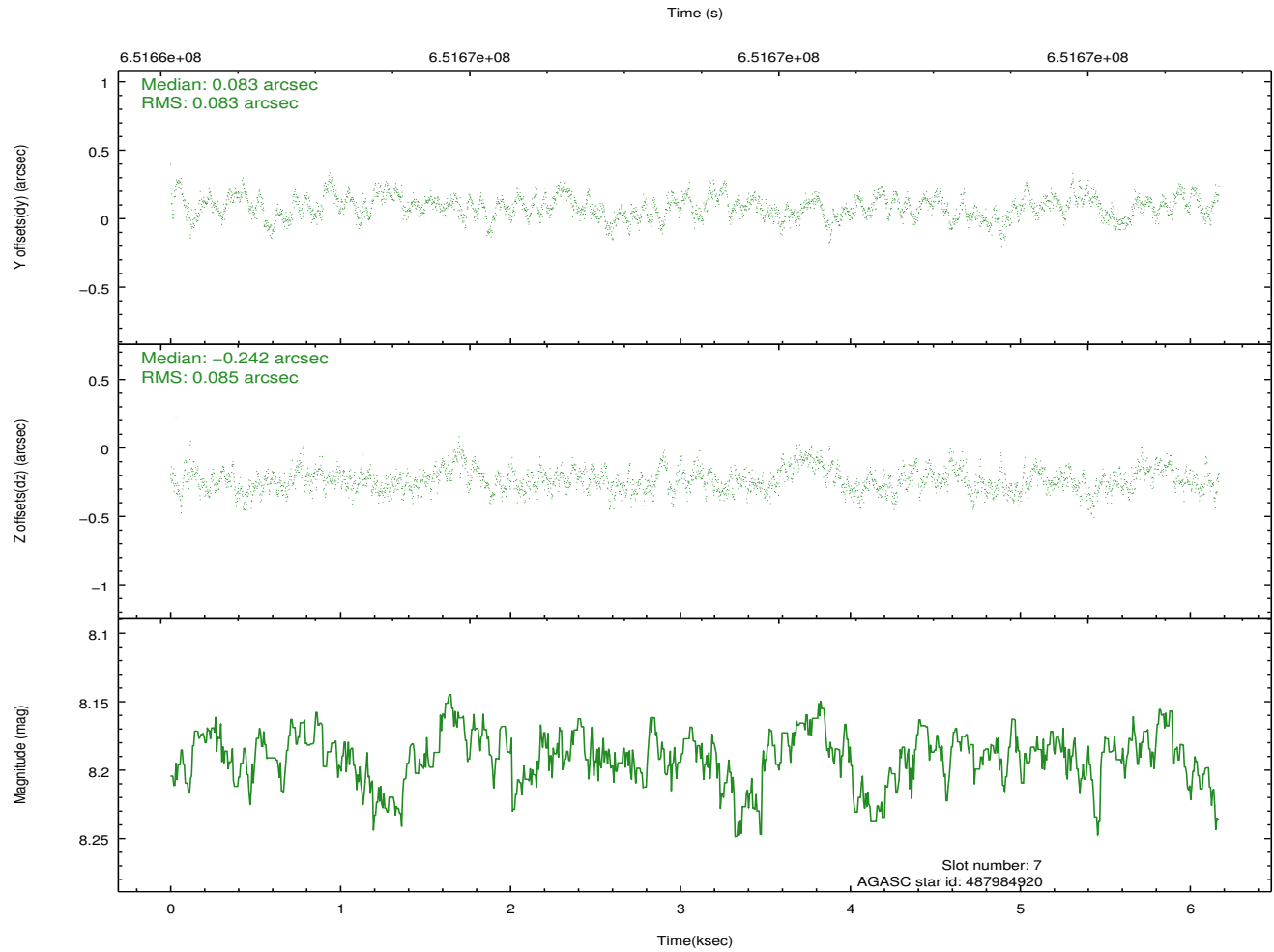
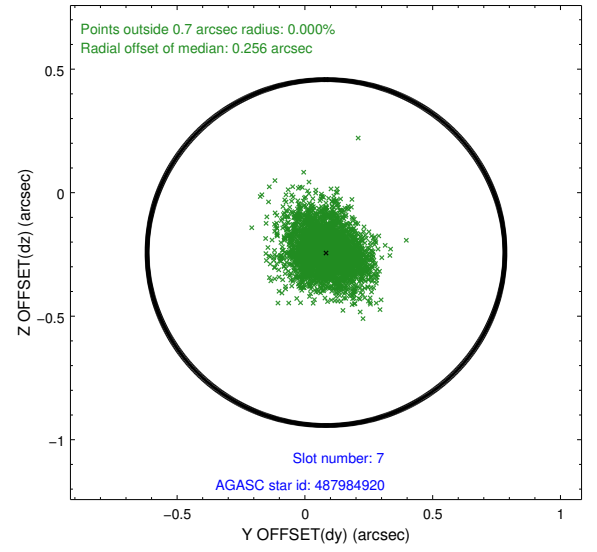
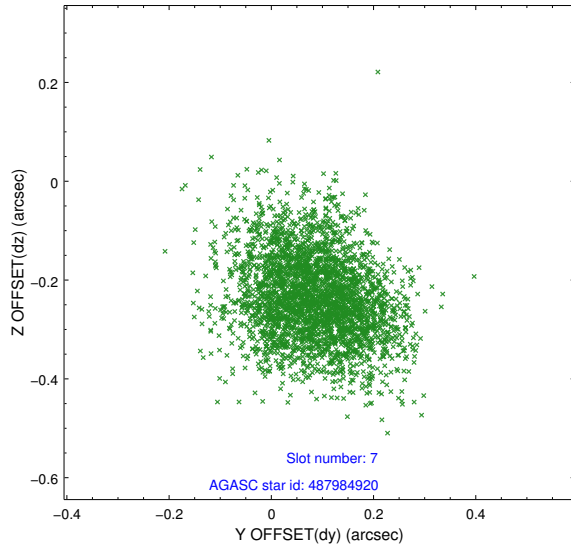
2.4.3 Slot 5



2.4.4 Slot 6

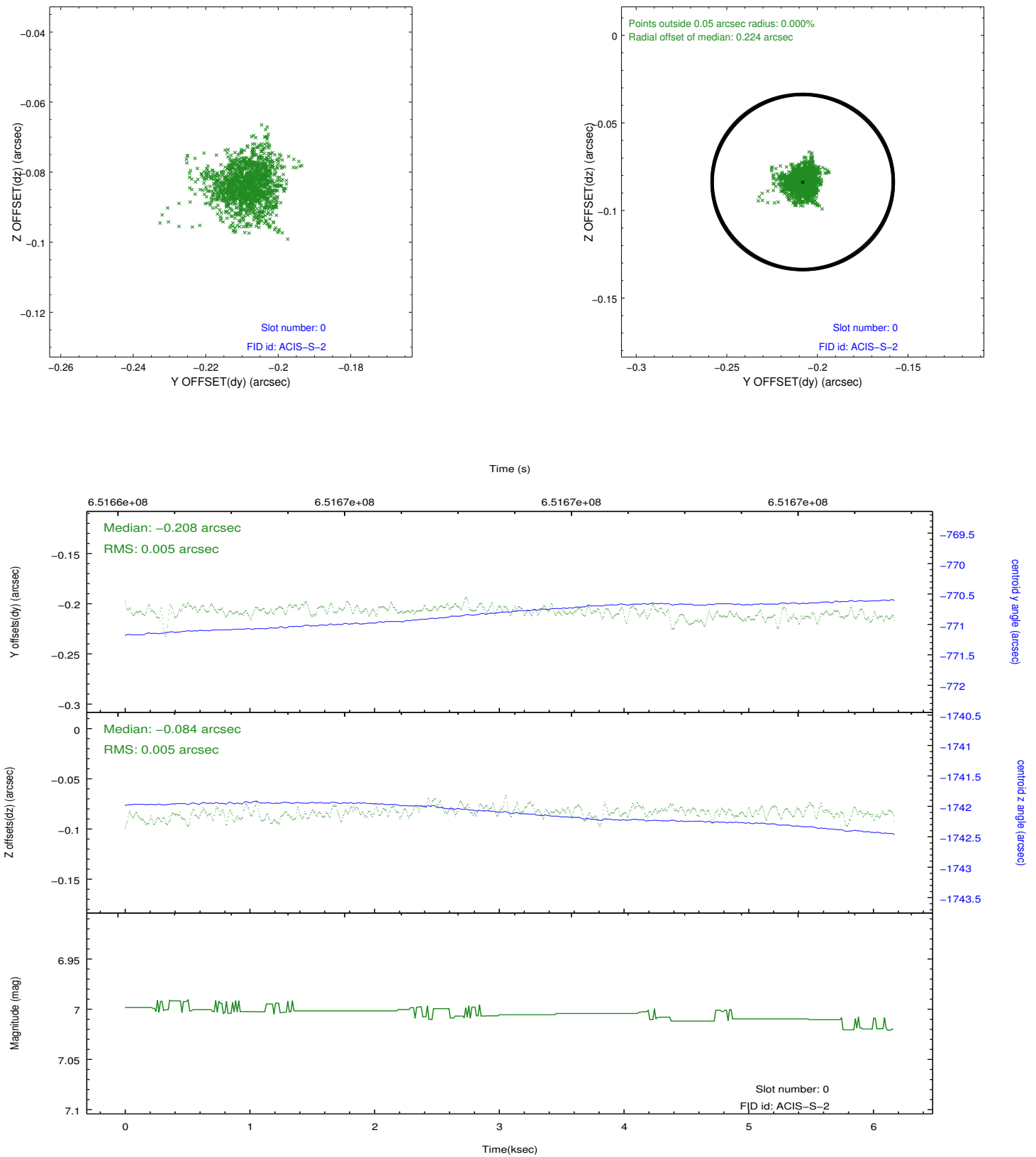


2.4.5 Slot 7

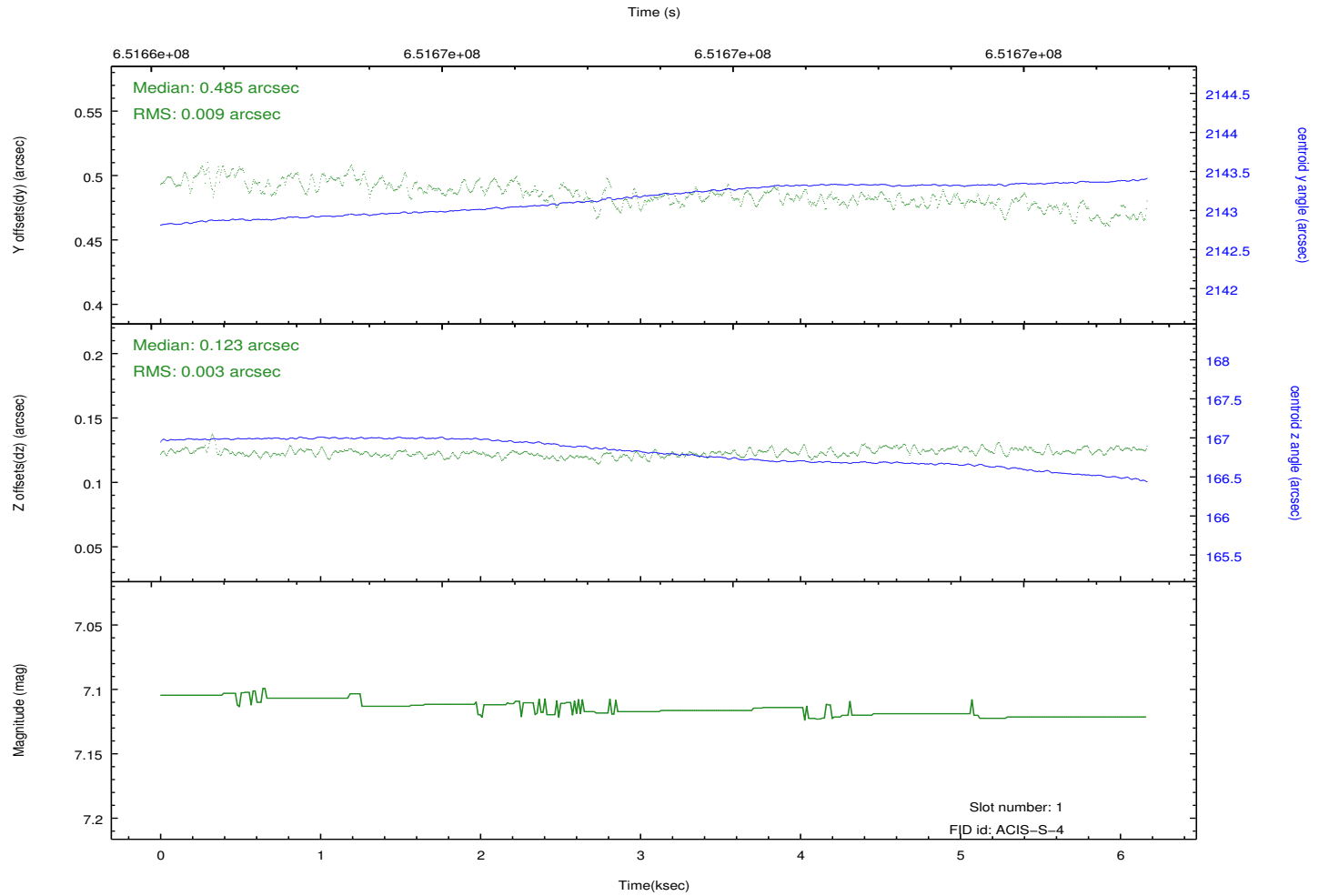
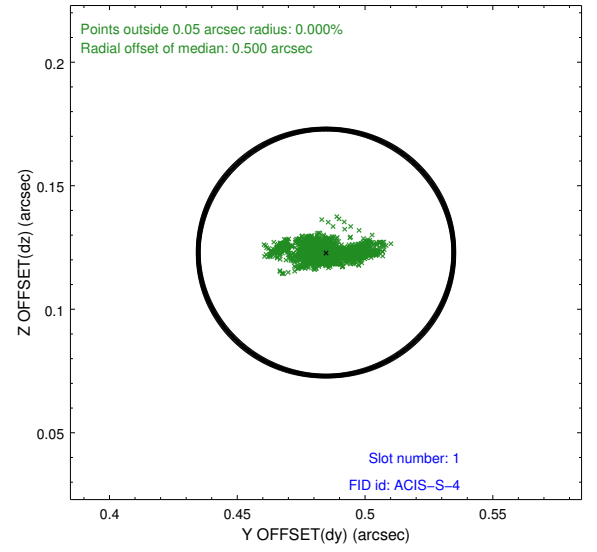
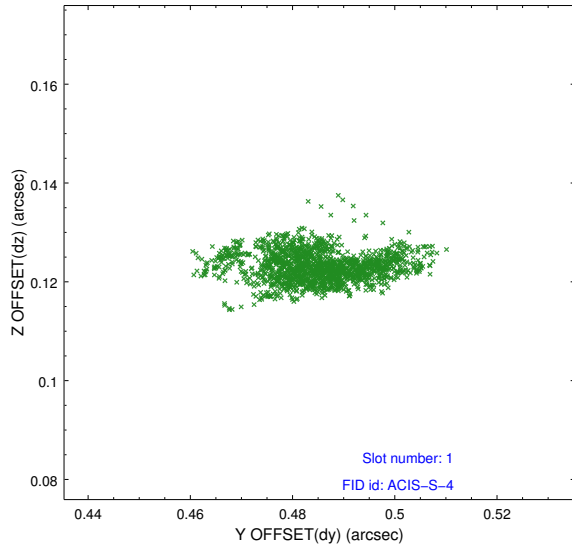


2.5 FID Slots

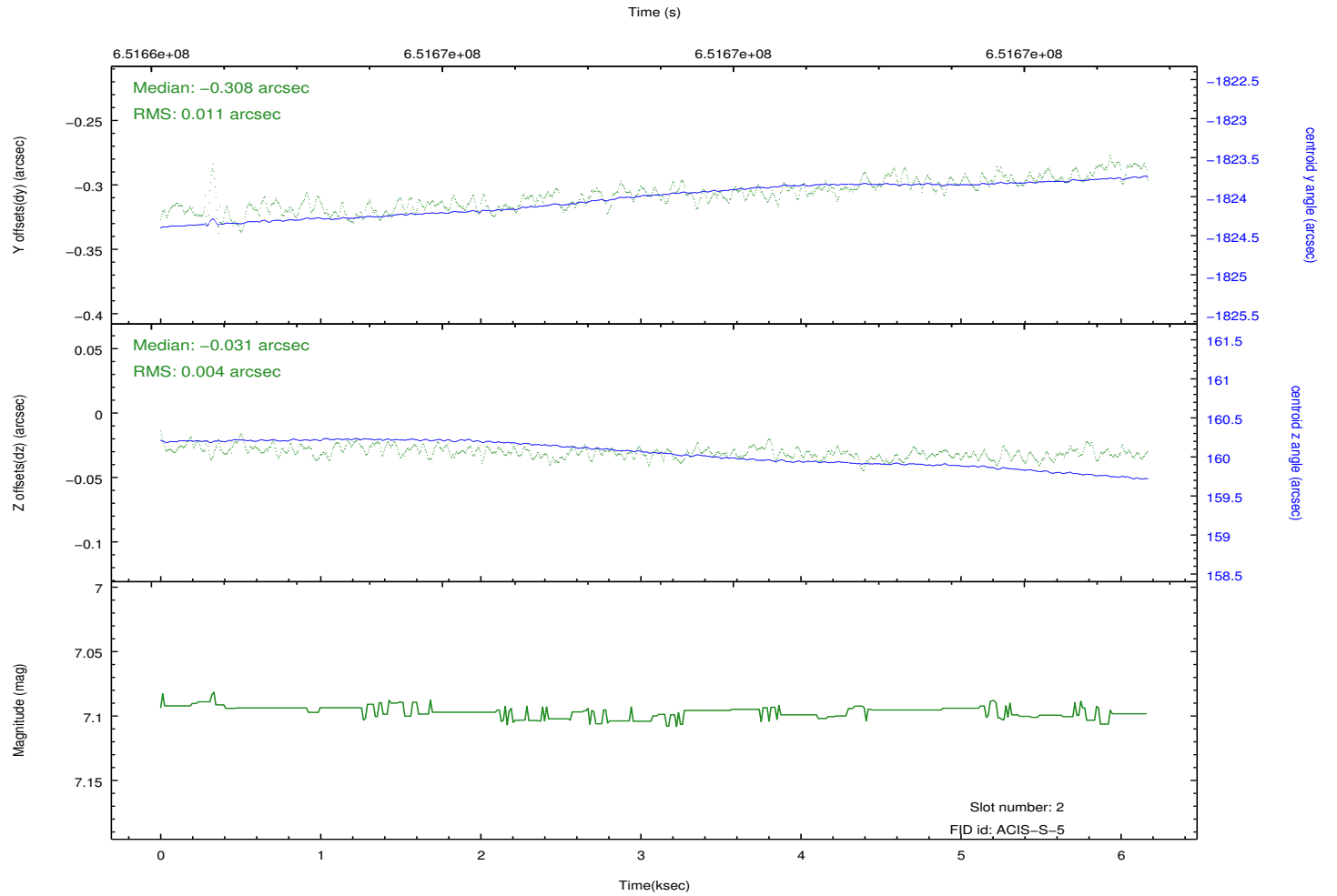
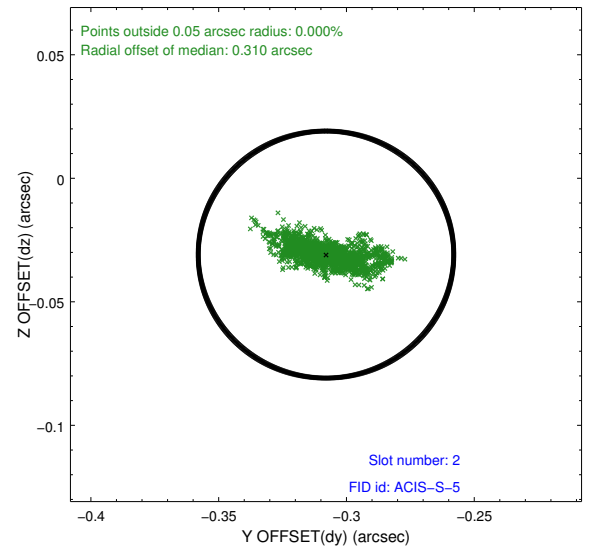
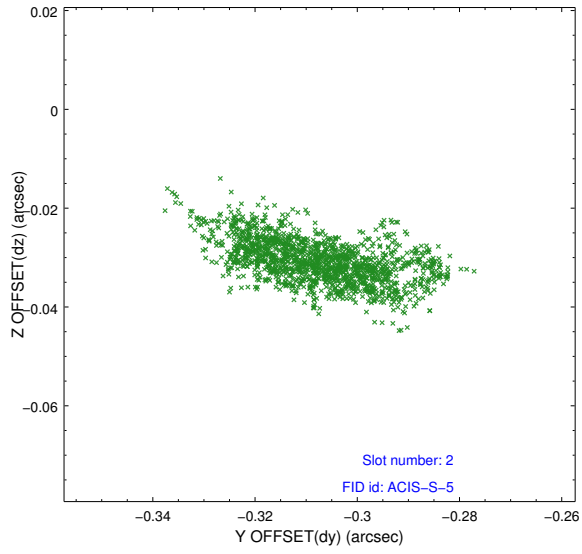
2.5.1 Slot 0



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)	2018.08.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.0574000467062

A.2 Comments

Window preference met.

Aspect solution is acceptable per aspect review.

This is a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.