

V&V Reference Report

L2 ASCDS Version : 10.6.4

Observation 21720 - L2 Version 1
Chandra X-Ray Center

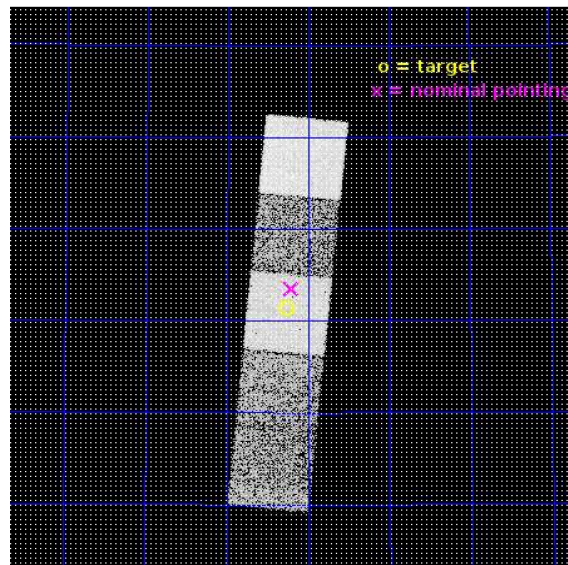
L2 Processing Date : Aug 27 2018

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1 Front

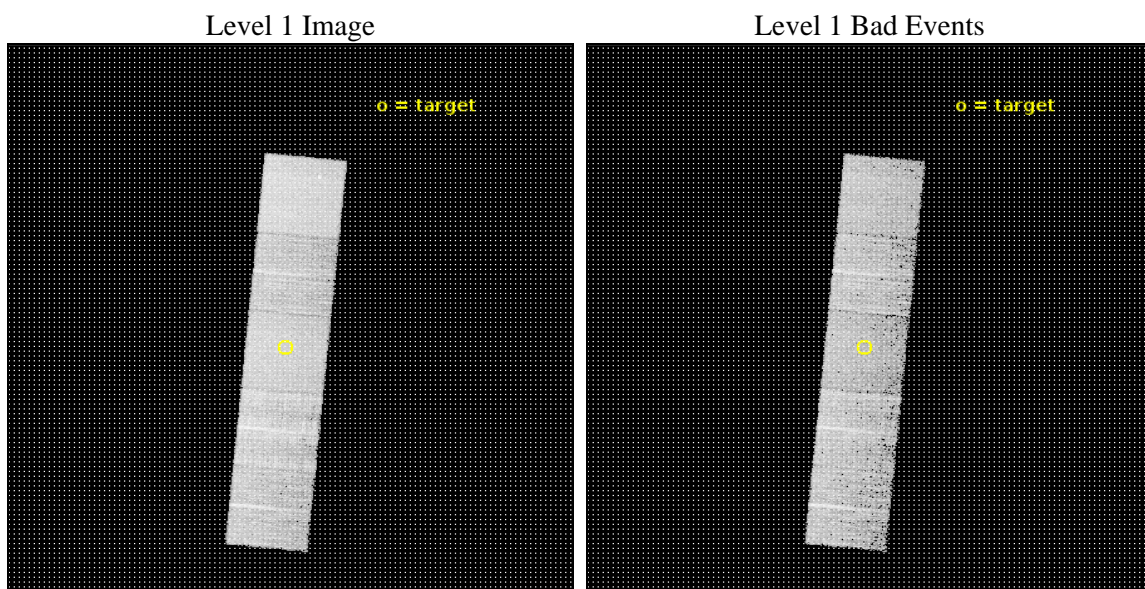
seq_num	100172	Sequence number
obs_id	21720	Observation id
title	Chandra Observations of the High-Heliospheric Latitude Comet 21P/Giacobini-Zinner	Proposal title
observer	Bradford Snios	Principal investigator
object	21P/Giacobini-Zinner	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	65.566531	Observer's specified target RA [deg]
dec_targ	55.521602	Observer's specified target Dec [deg]
ra_nom	65.552117851317	Nominal RA [deg]
dec_nom	55.558630180908	Nominal Dec [deg]
roll_nom	95.529788447327	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6184.5000476837	Sum of GTIs [s]
livetime	6103.695001598	Livetime [s]
ontime5	6184.5000476837	Sum of GTIs [s]
ontime6	6184.5000476837	Sum of GTIs [s]
ontime7	6184.5000476837	Sum of GTIs [s]
ontime8	6184.5000476837	Sum of GTIs [s]
ontime9	6184.5000476837	Sum of GTIs [s]
l2events	76206	Number of level 2 events



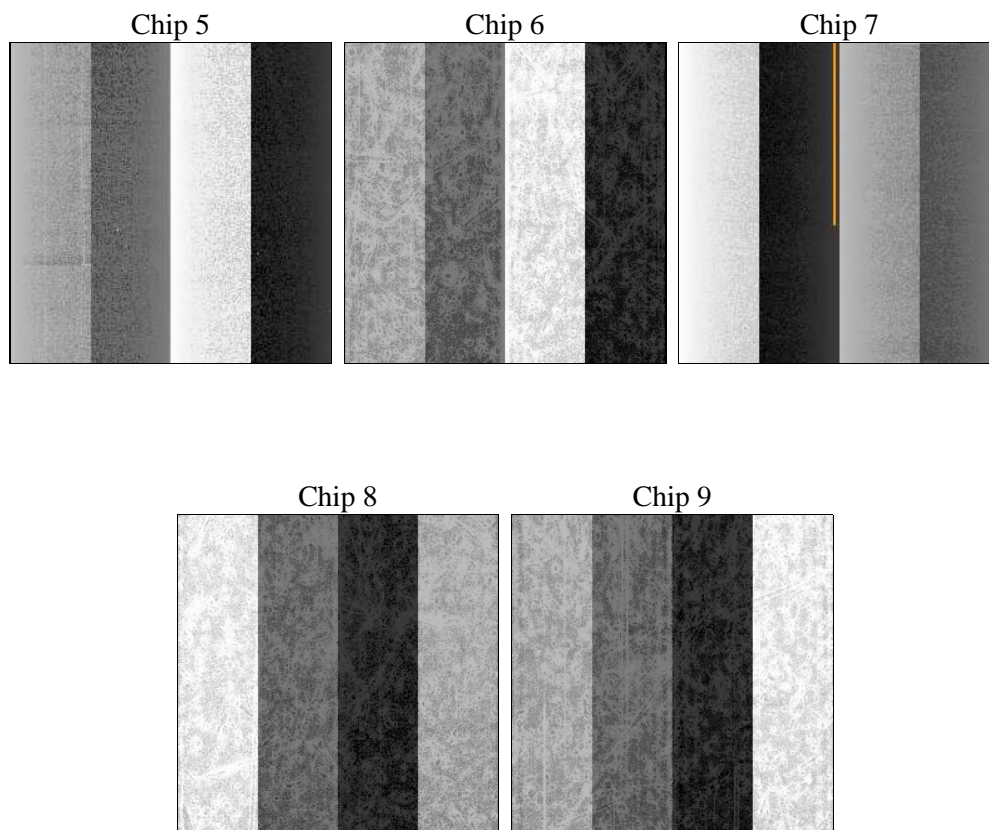
2 OBI

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	6184.5000476837	Sum of GTIs [s]
caldsver	4.7.8	 	ontime5	6184.5000476837	Sum of GTIs [s]
date	2018-08-27T05:22:34	Date and time of file creation	ontime6	6184.5000476837	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	6184.5000476837	Sum of GTIs [s]
			ontime8	6184.5000476837	Sum of GTIs [s]
			ontime9	6184.5000476837	Sum of GTIs [s]
			l1events	310803	Number of level 1 events

2.1.4 Events

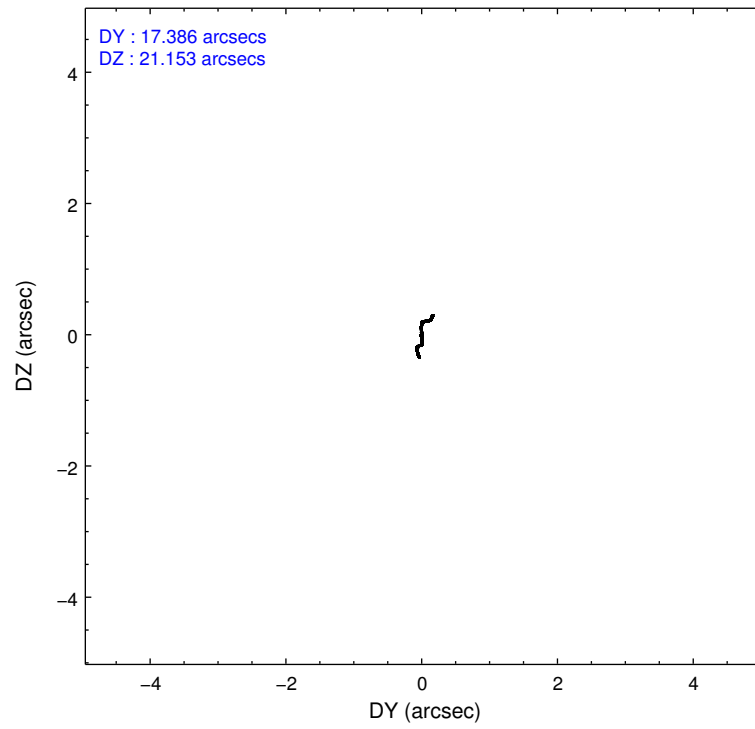
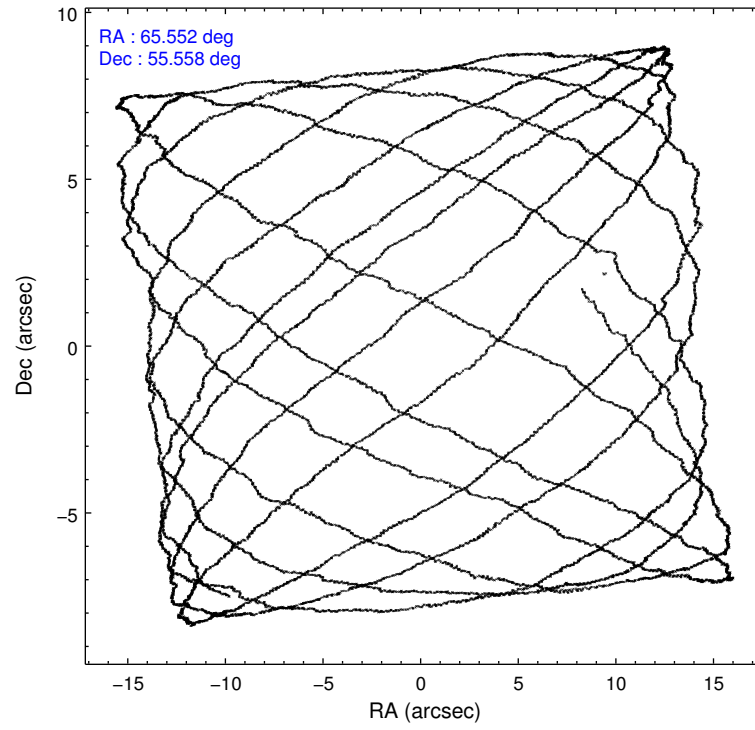
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	78018	51731	64088	66638	50328
rejected events	42688	46213	37384	49138	44507
rejected %	54%	89%	58%	73%	88%

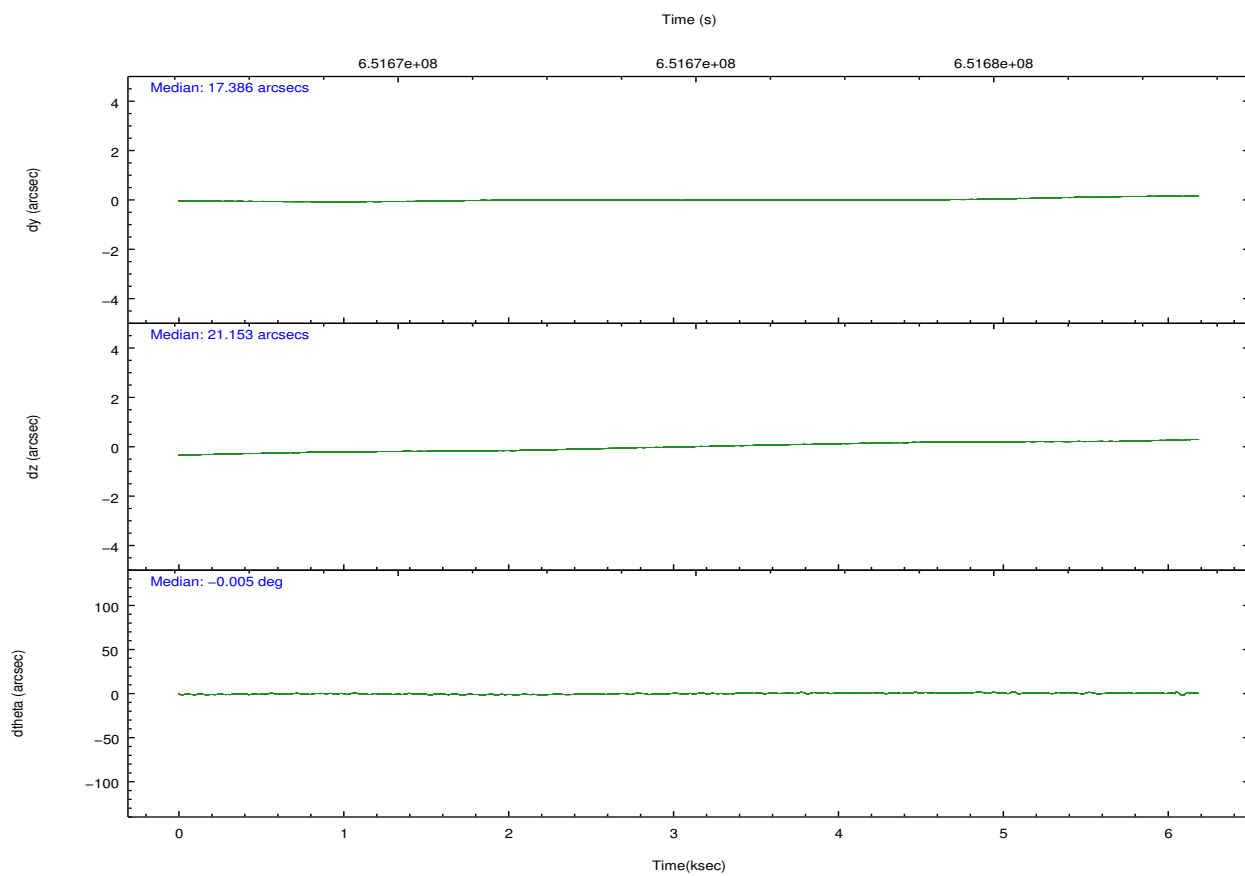
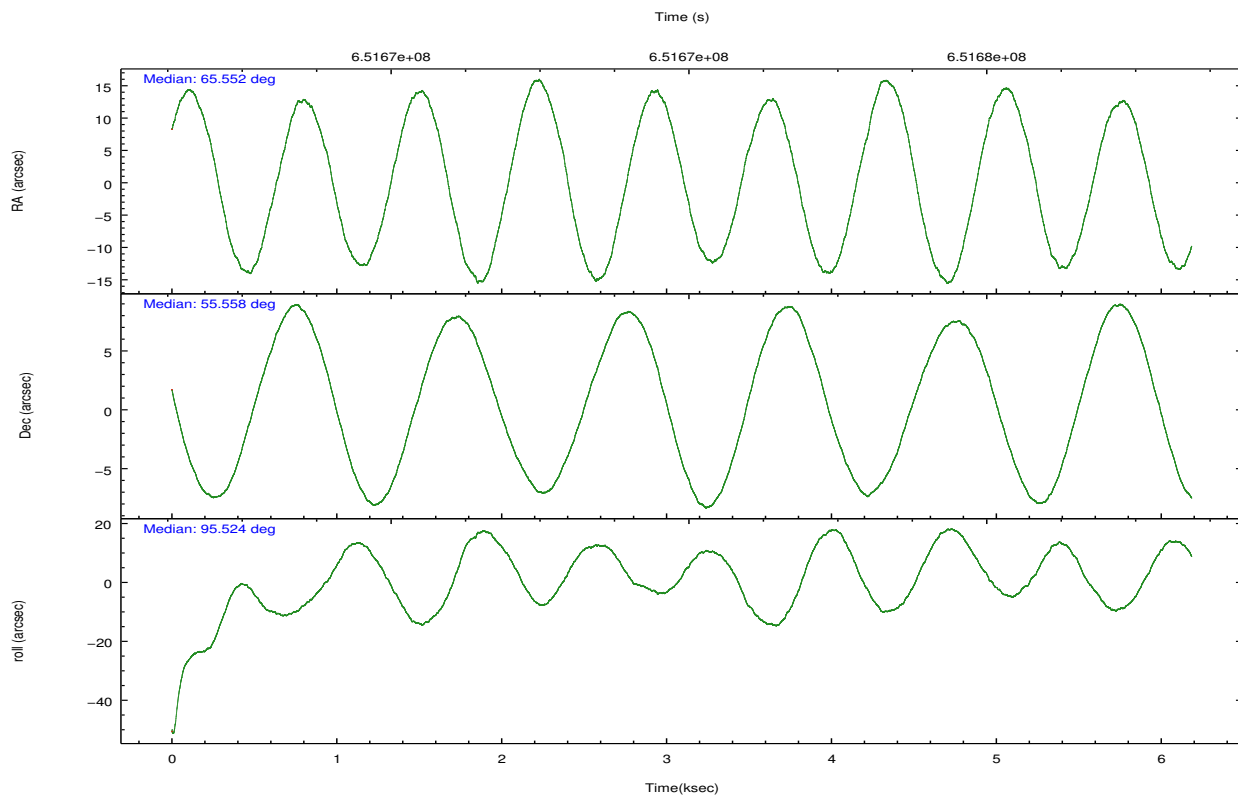
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	2185	1887	2620	5167	2252
	2%	3%	4%	7%	4%
grade 1 events	170	27	94	57	28
	0%	0%	0%	0%	0%
grade 2 events	11883	1422	5902	4495	1289
	15%	2%	9%	6%	2%
grade 3 events	1196	533	2201	1764	590
	1%	1%	3%	2%	1%
grade 4 events	1084	542	2213	1709	622
	1%	1%	3%	2%	1%
grade 5 events	5361	2229	6259	3429	2512
	6%	4%	9%	5%	4%
grade 6 events	20893	1428	15193	5257	1390
	26%	2%	23%	7%	2%
grade 7 events	35246	43663	29606	44760	41645
	45%	84%	46%	67%	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	65.580816	65.55211785131679	CCD I2 on	N	N
[deg] Pointing Dec	55.536542	55.55863018090783	CCD I3 on	N	N
[deg] Pointing Roll	95.349560	95.52978844732698	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)	651671046.184000	651670670.38915	On-chip summing requested	N	N
Observation start date	2018-08-26T11:42:57	2018-08-26T11:37:50	Subarray requested	NONE	NONE
[s] Observation end time (MET)	651677046.184000	651677180.16453	Alternating exposures requested	N	N
Observation end date	2018-08-26T13:22:57	2018-08-26T13:26:20	[s] Primary exposure time	0.000000	3.1
Read mode	TIMED	TIMED			

2.3 Aspect



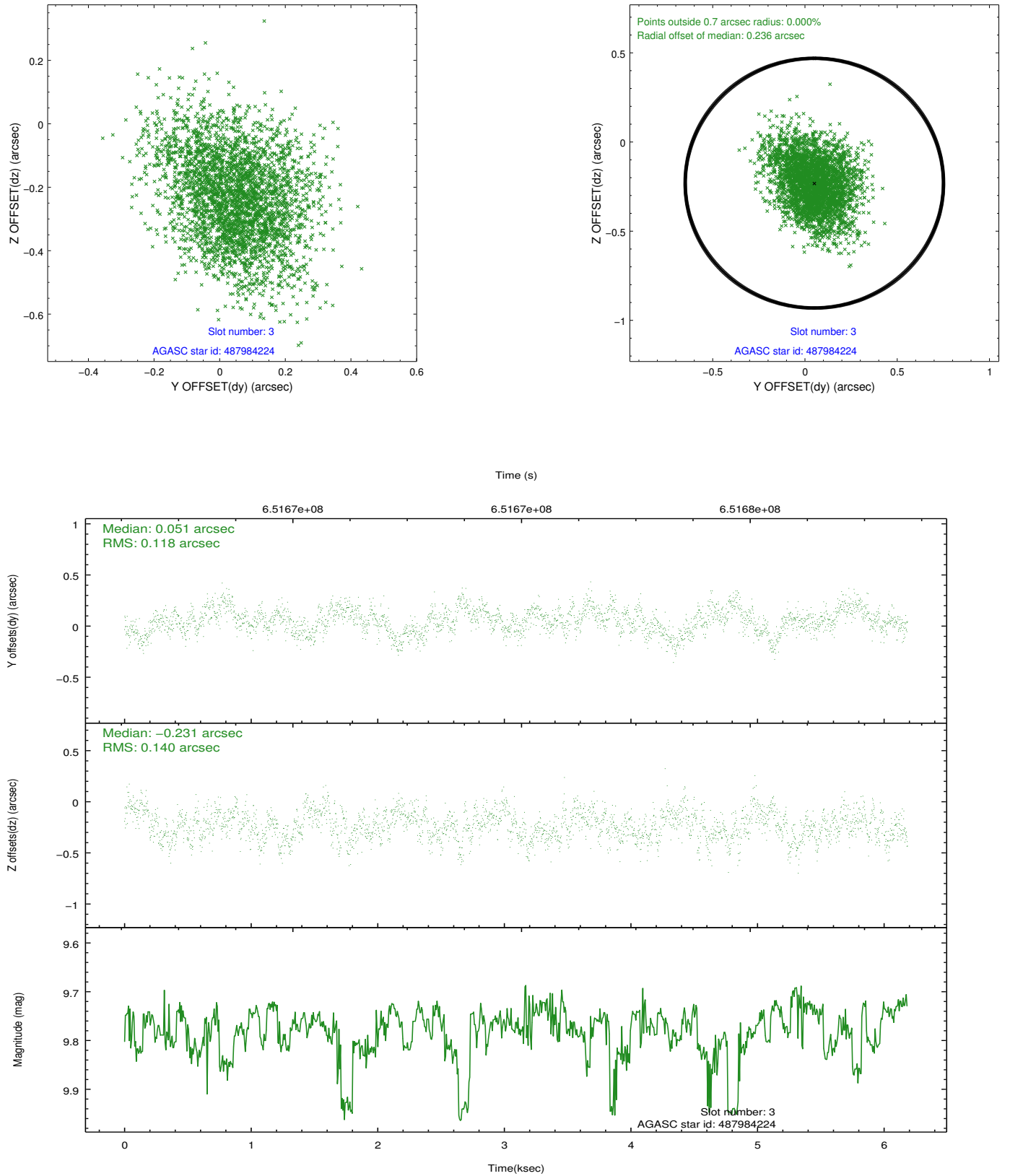


Slot Statistics

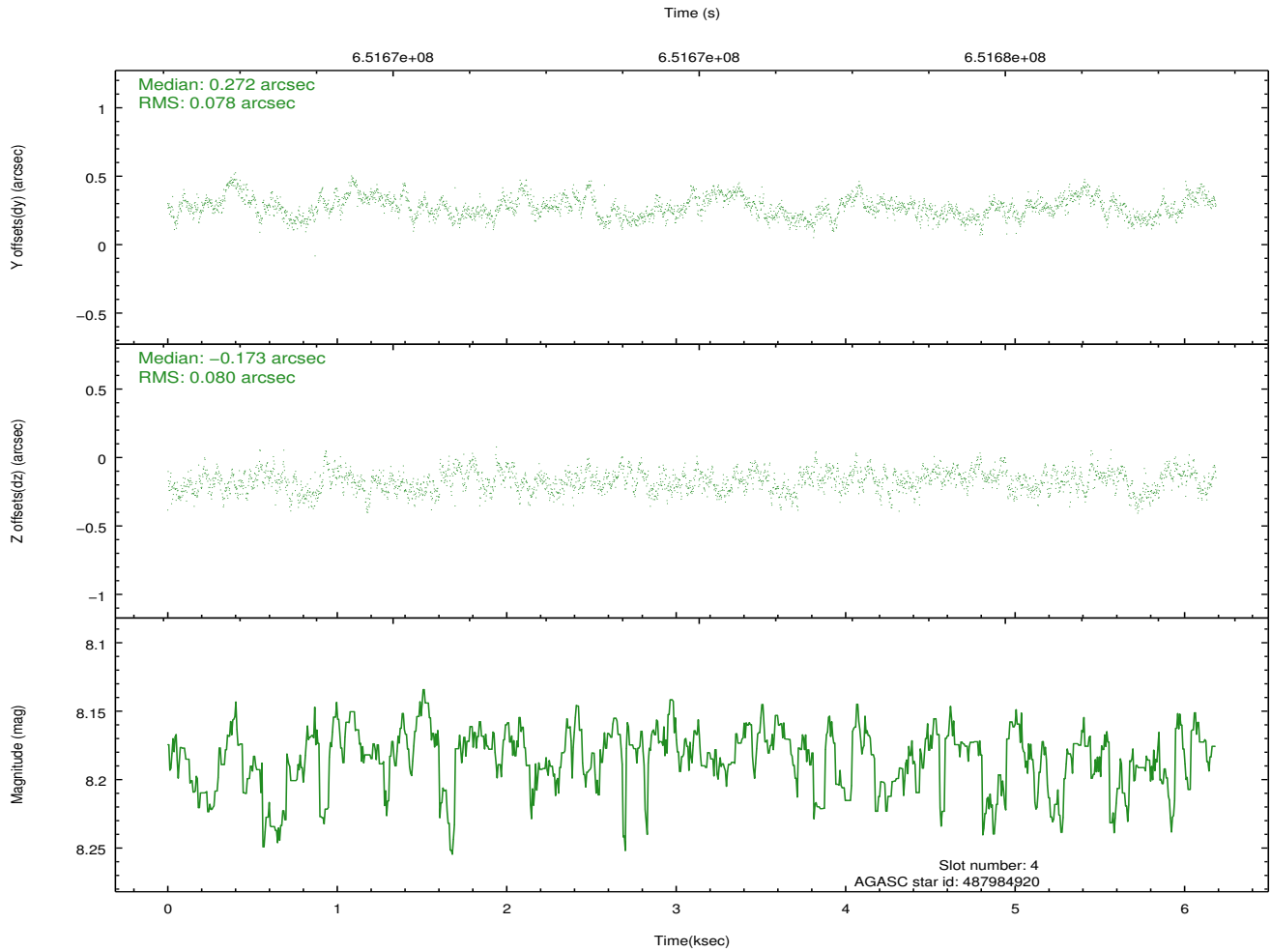
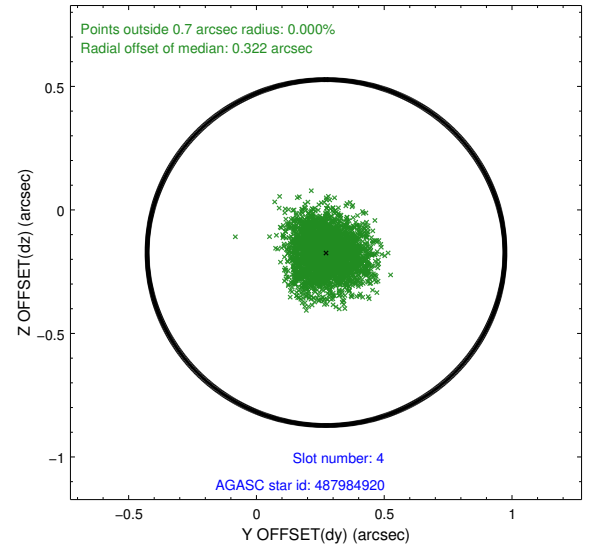
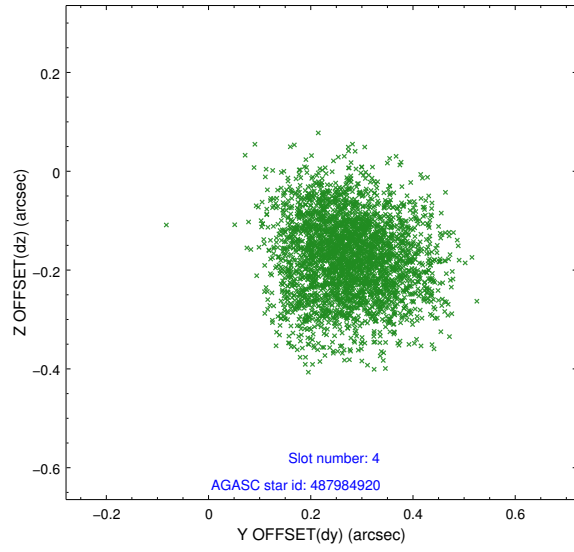
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.02	1509	1.000	-0.209	-0.098	0.011	0.018	0.000000	0.000000	-770.60	-1742
1	FID		ACIS-S-4	7.12	1509	1.000	0.474	0.127	0.006	0.012	0.000000	0.000000	2142.88	164
2	FID		ACIS-S-5	7.11	1509	1.000	-0.296	-0.021	0.010	0.015	0.000000	0.000000	-1822.35	159
3	GUIDE	used	487984224	9.78	3015	1.000	0.051	-0.231	0.193	0.317	64.781559	55.554586	226.36	1613
4	GUIDE	used	487984920	8.18	3015	1.000	0.272	-0.173	0.121	0.189	65.279802	55.505250	-52.58	621
5	GUIDE	used	487986504	8.70	3015	1.000	0.008	0.226	0.144	0.239	66.270060	56.088835	1859.08	-1564
6	GUIDE	used	487987528	8.17	3016	1.000	-0.031	0.108	0.115	0.185	66.082375	55.991093	1540.01	-1158
7	GUIDE	used	487989016	9.29	3017	1.000	-0.325	0.077	0.163	0.314	66.179428	56.149859	2092.70	-1401

2.4 Star Slots

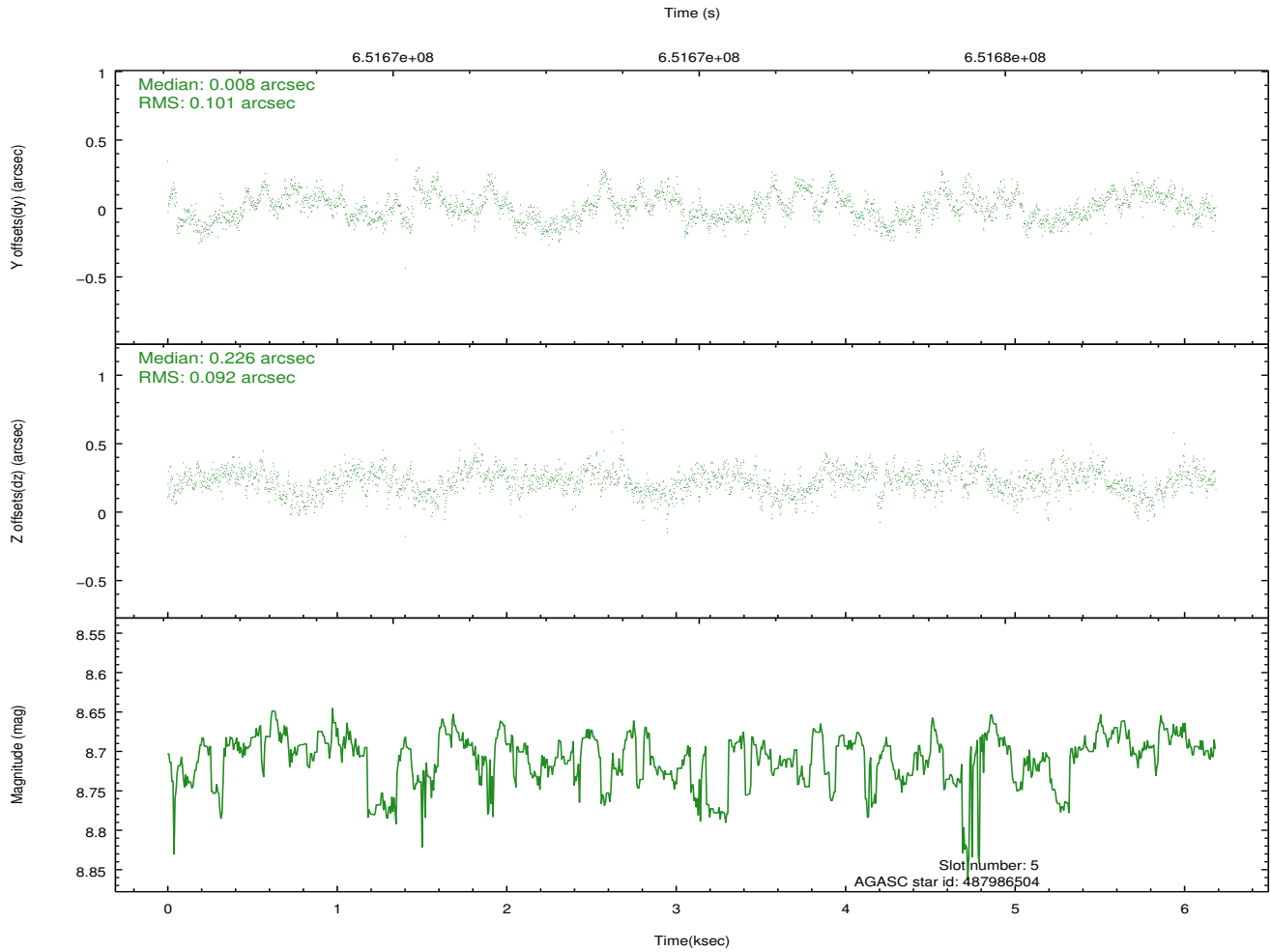
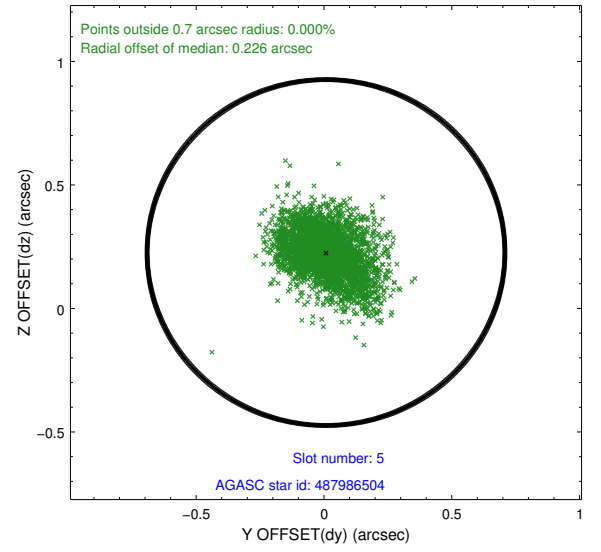
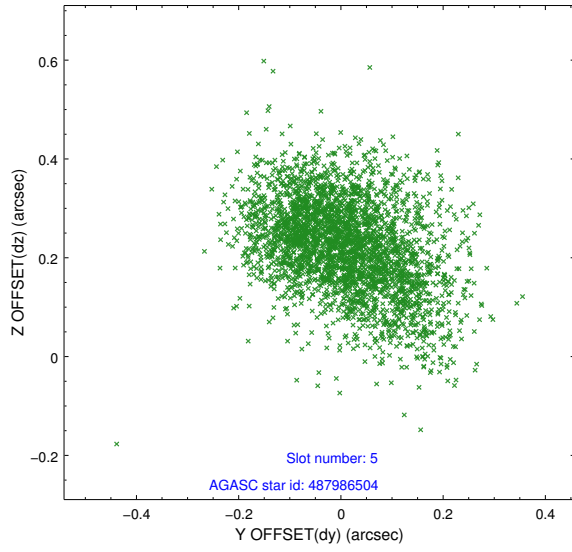
2.4.1 Slot 3



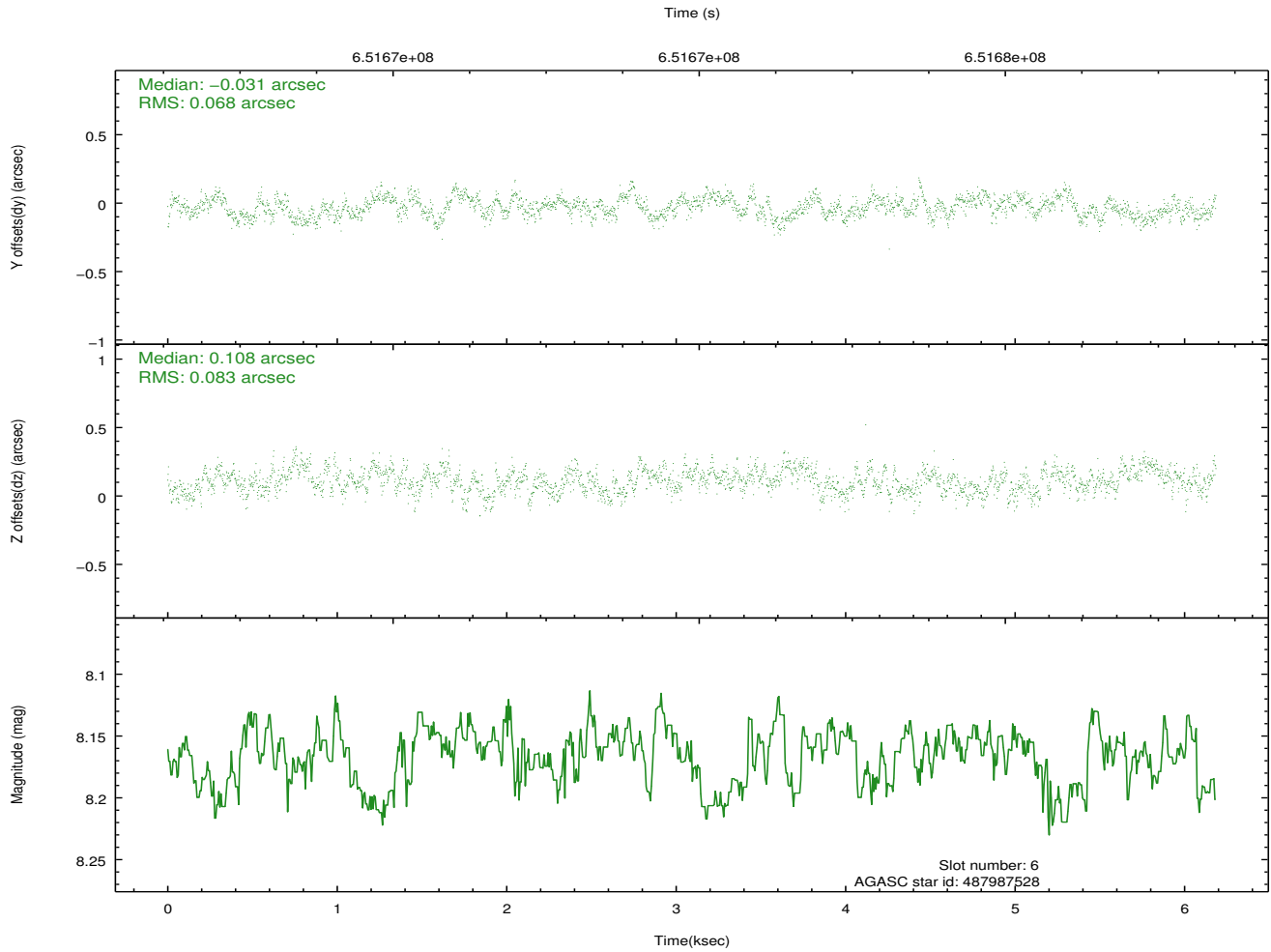
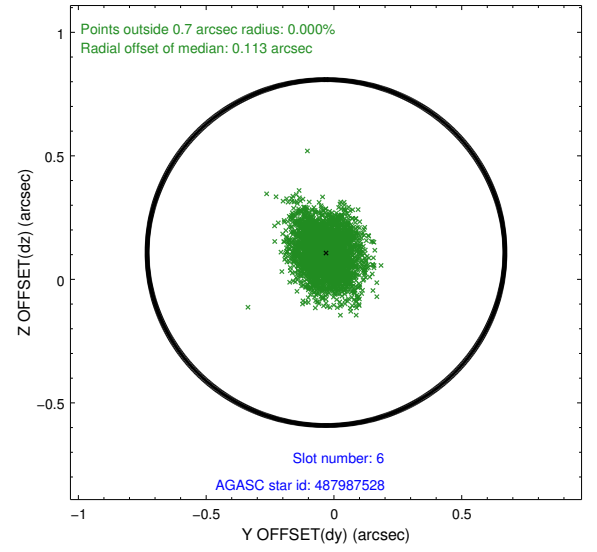
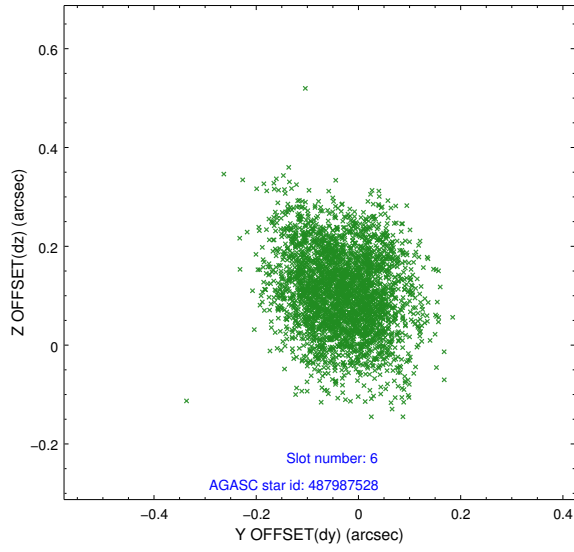
2.4.2 Slot 4



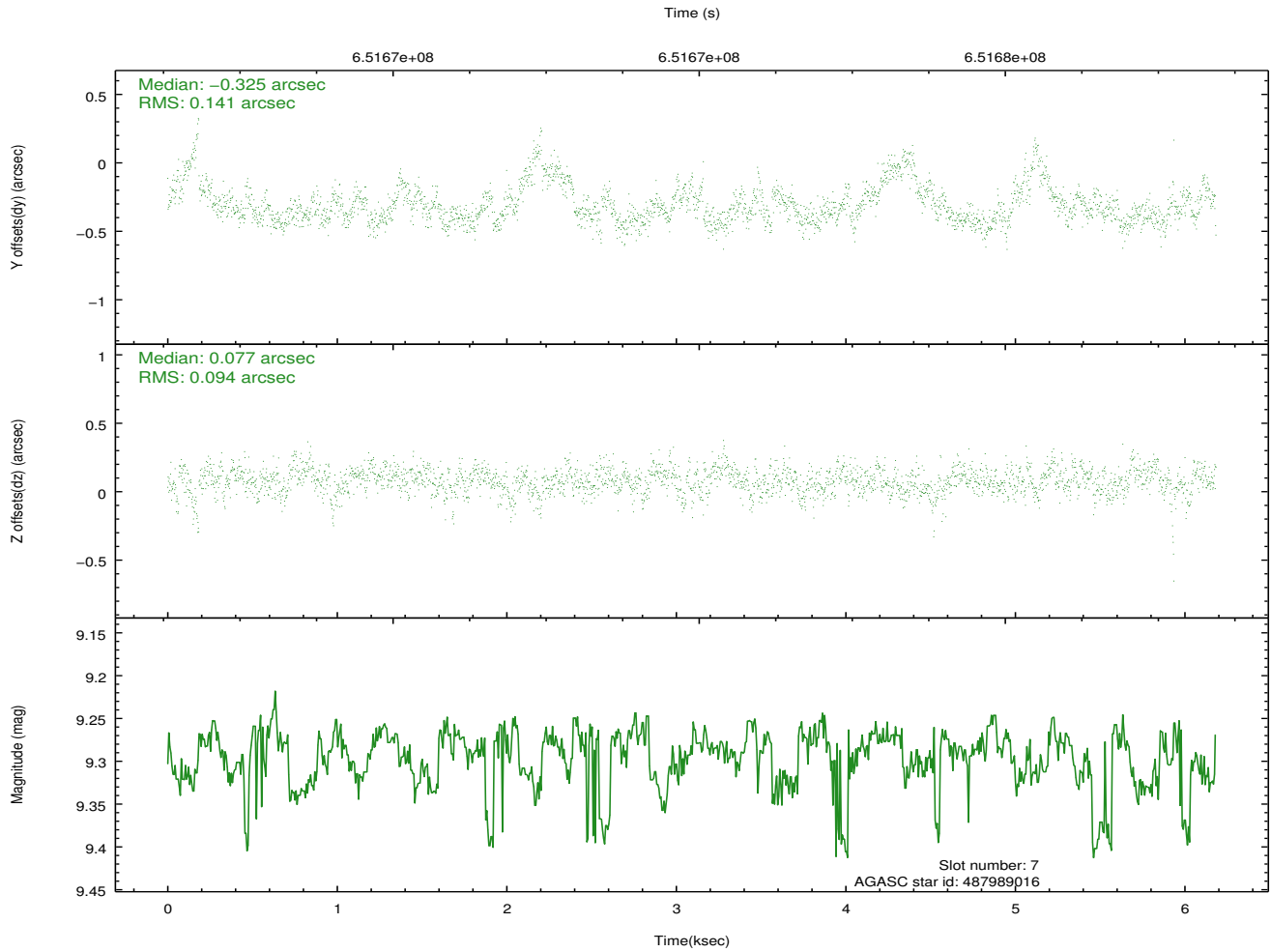
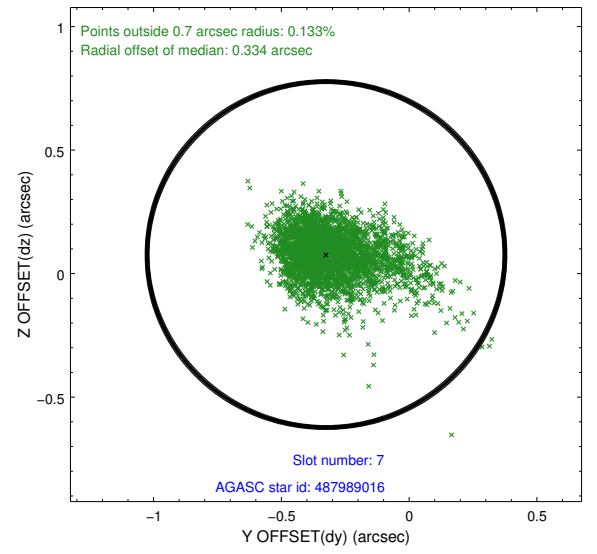
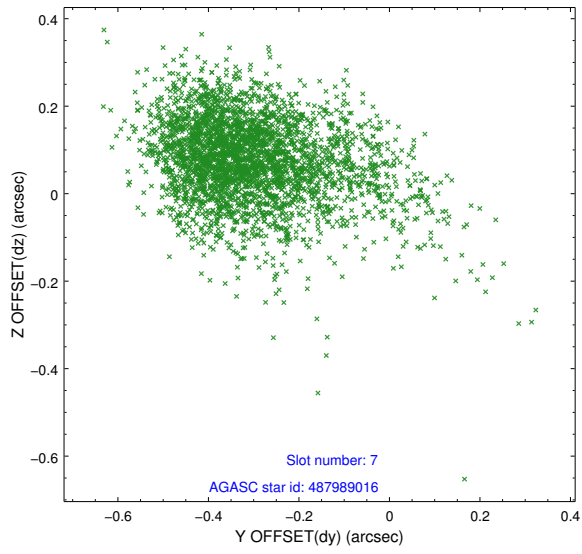
2.4.3 Slot 5



2.4.4 Slot 6

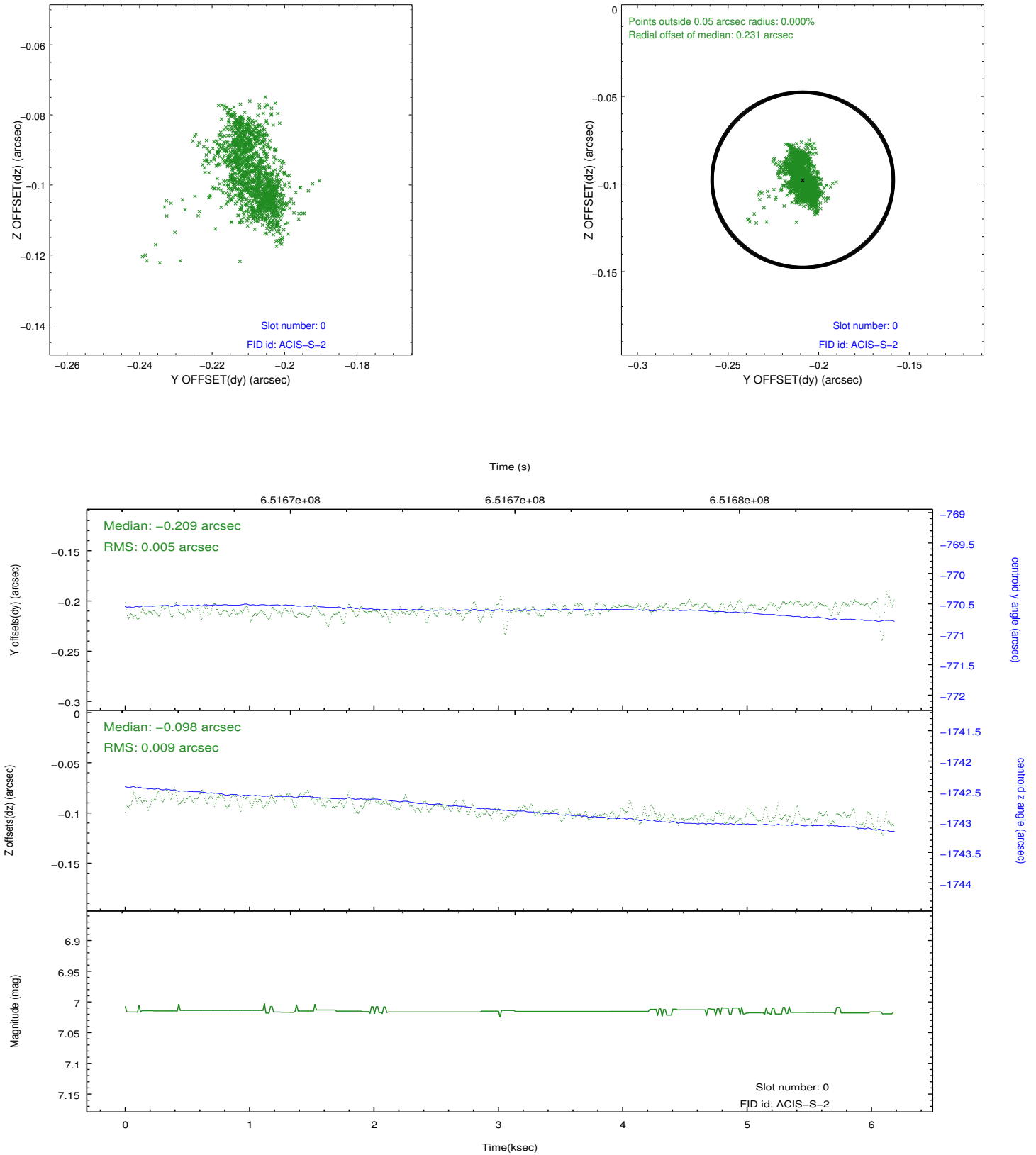


2.4.5 Slot 7

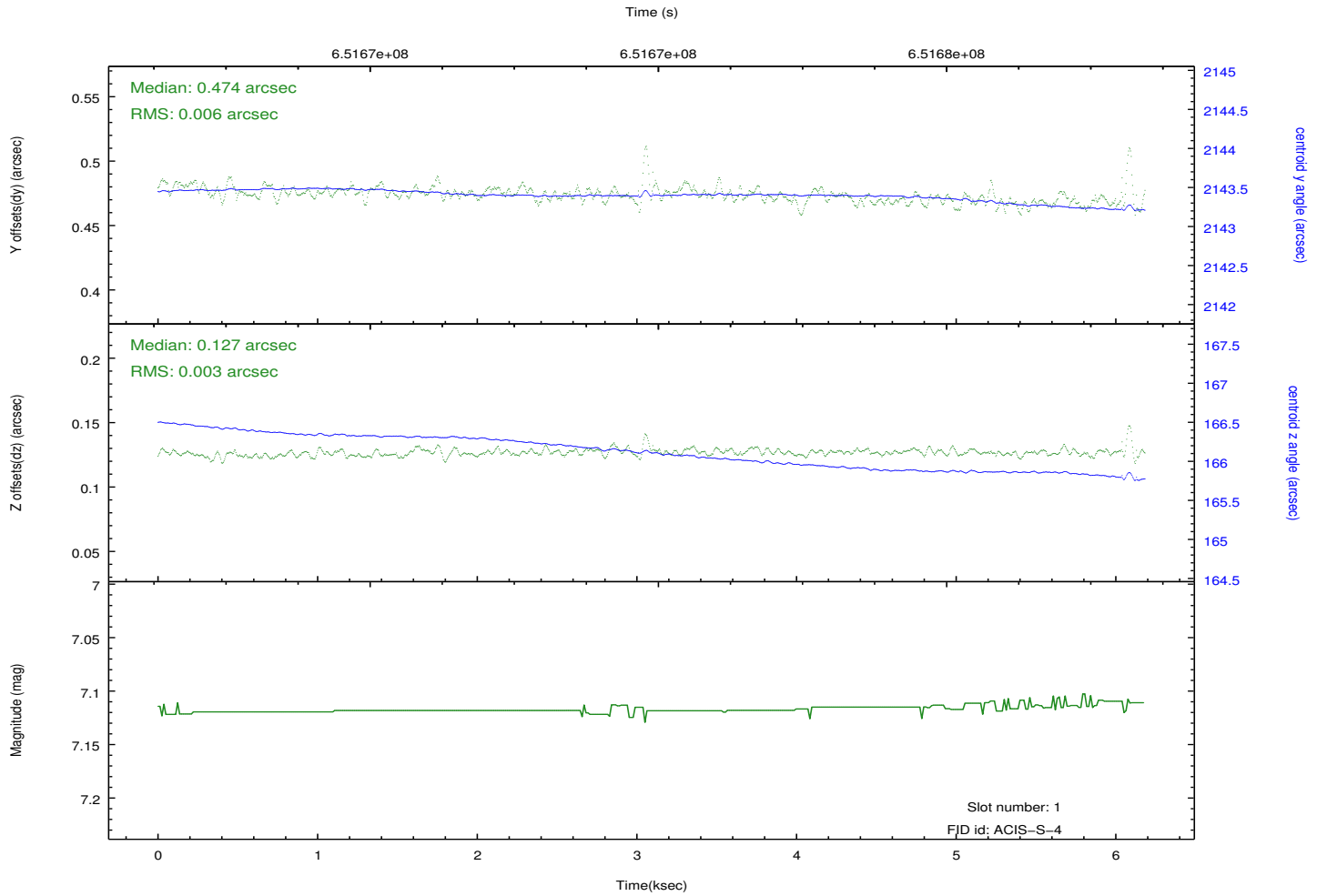
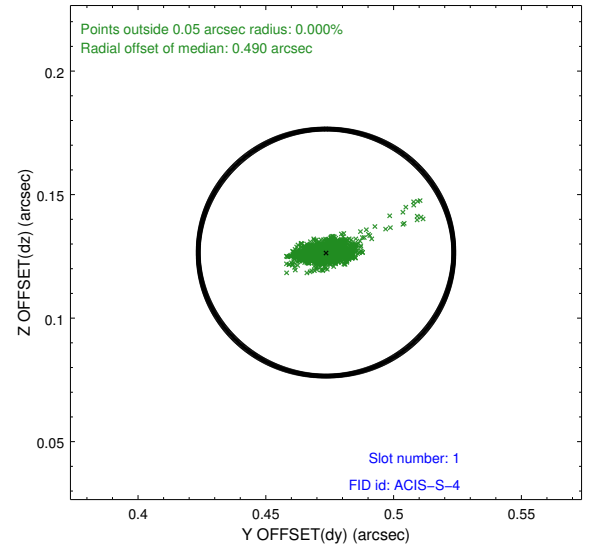
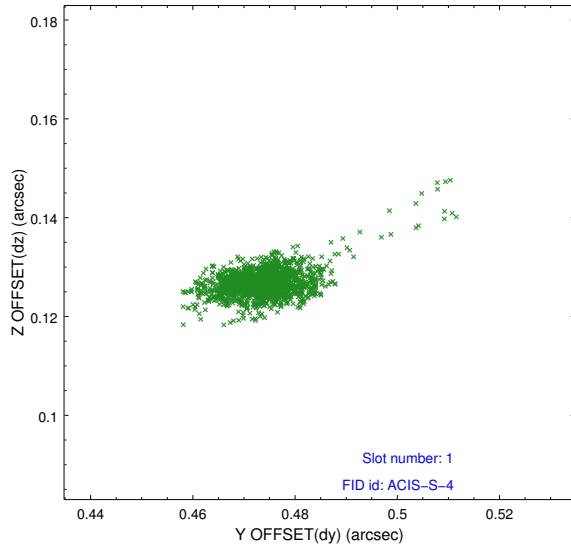


2.5 FID Slots

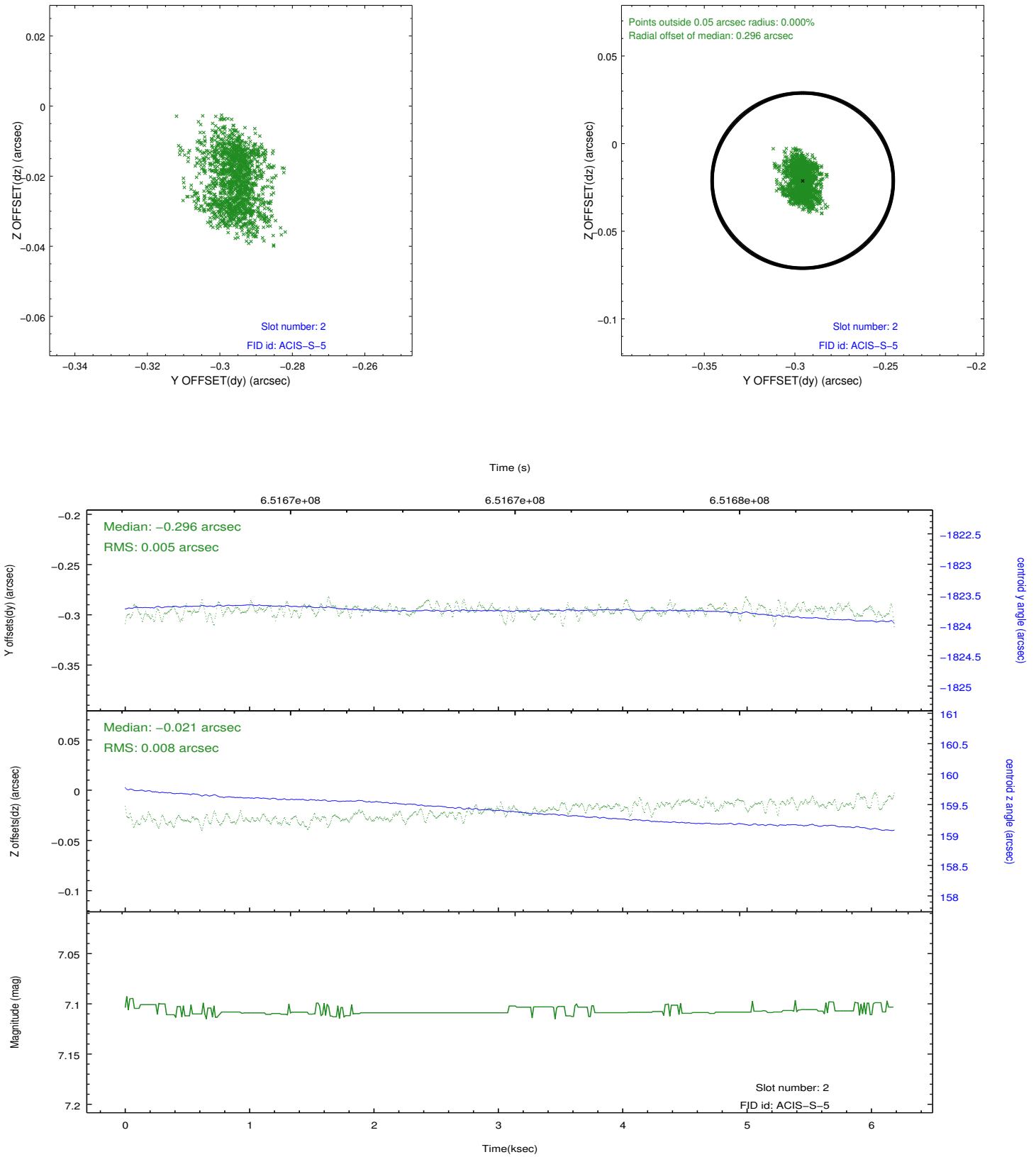
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.08.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.1845000476837

A.2 Comments

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.