

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21583 - L2 Version 2
Chandra X-Ray Center

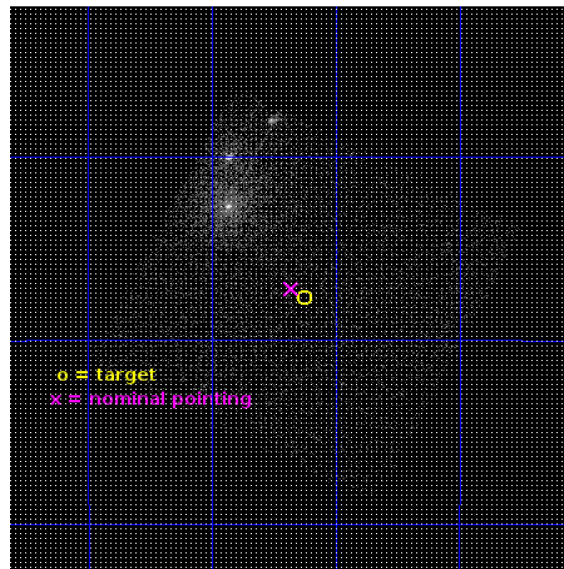
L2 Processing Date : Jul 8 2019

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1 Front

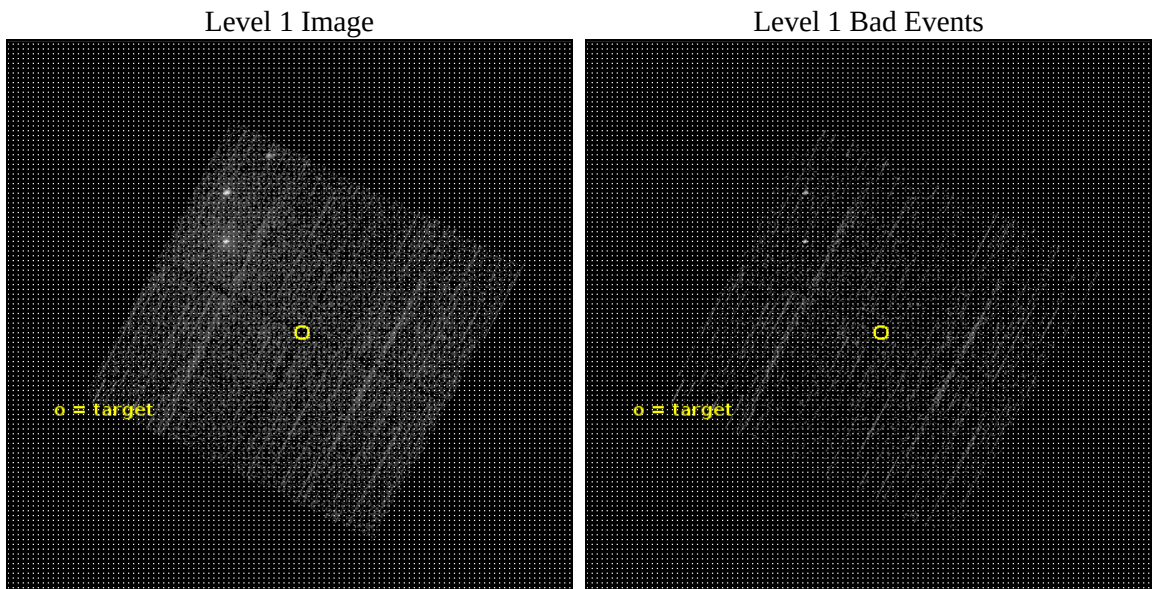
seq_num	300415	Sequence number
obs_id	21583	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.78104	Observer's specified target RA [deg]
dec_targ	-30.127985	Observer's specified target Dec [deg]
ra_nom	266.79477236846	Nominal RA [deg]
dec_nom	-30.119837552238	Nominal Dec [deg]
roll_nom	297.21515784771	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1908.2469222546	Sum of GTIs [s]
livetime	1883.3142713844	Livetime [s]
ontime0	1901.9239014387	Sum of GTIs [s]
ontime1	1908.2469222546	Sum of GTIs [s]
ontime2	1908.2879623175	Sum of GTIs [s]
ontime3	1908.3290022612	Sum of GTIs [s]
l2events	19346	Number of level 2 events



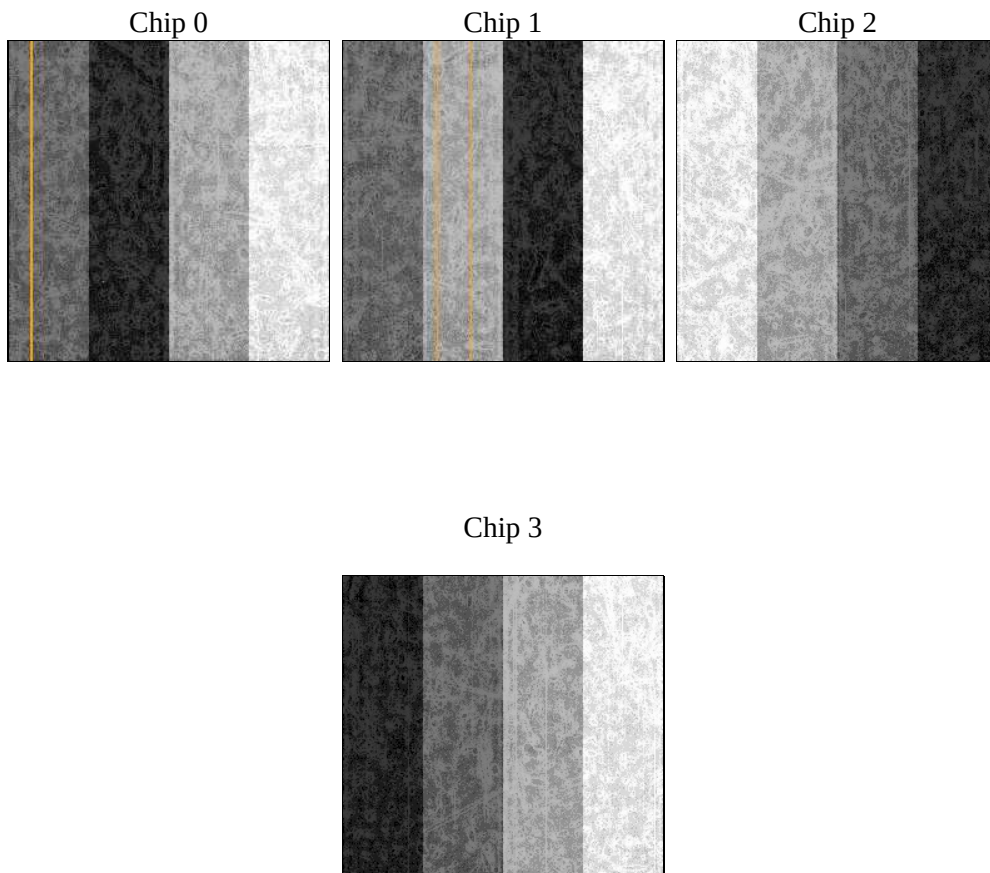
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	1908.2469222546	Sum of GTIs [s]
caldbver	4.8.3.1	 	ontime0	1901.9239014387	Sum of GTIs [s]
date	2019-07-08T16:51:08	Date and time of file creation	ontime1	1908.2469222546	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1908.2879623175	Sum of GTIs [s]
			ontime3	1908.3290022612	Sum of GTIs [s]
			l1events	72139	Number of level 1 events

2.1.4 Events

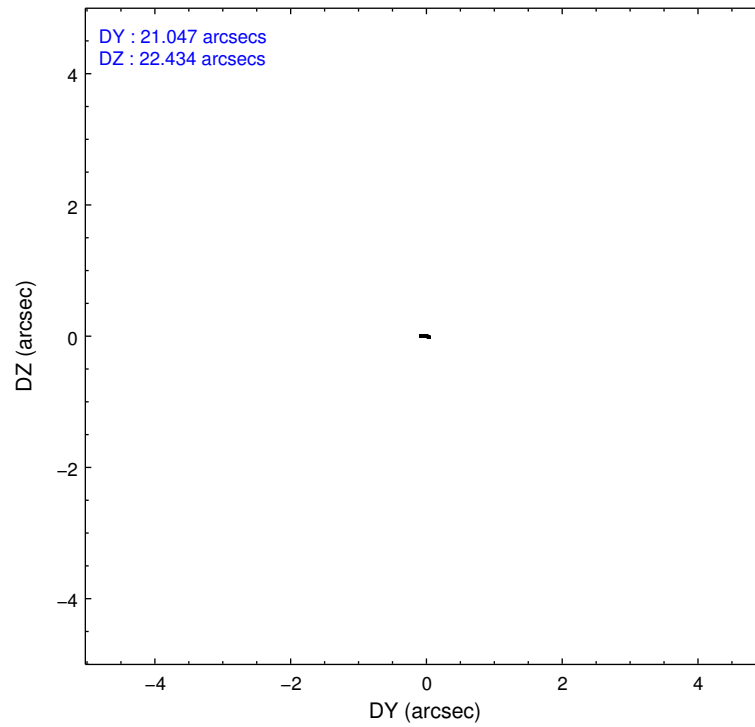
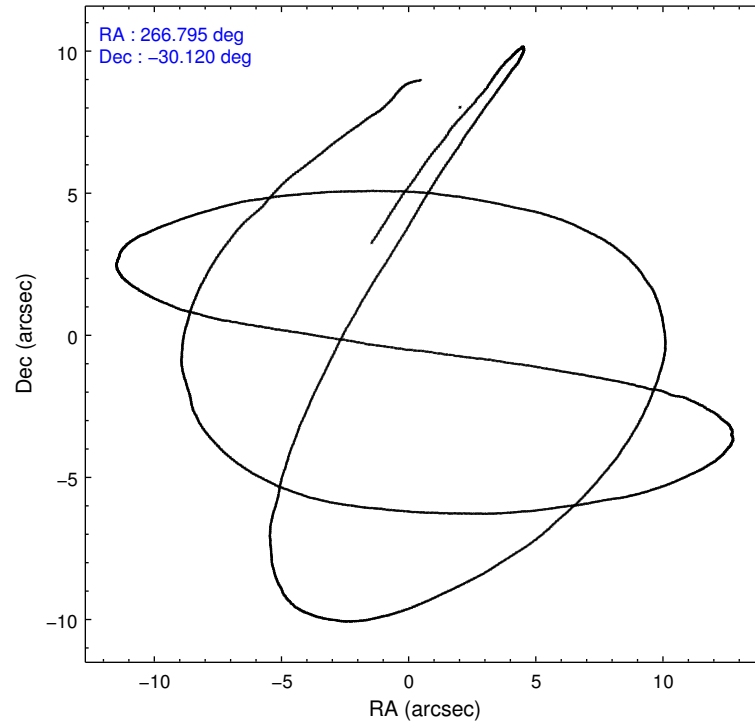
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13960	14081	15730	28368
rejected events	11917	11731	13283	14230
rejected %	85%	83%	84%	50%

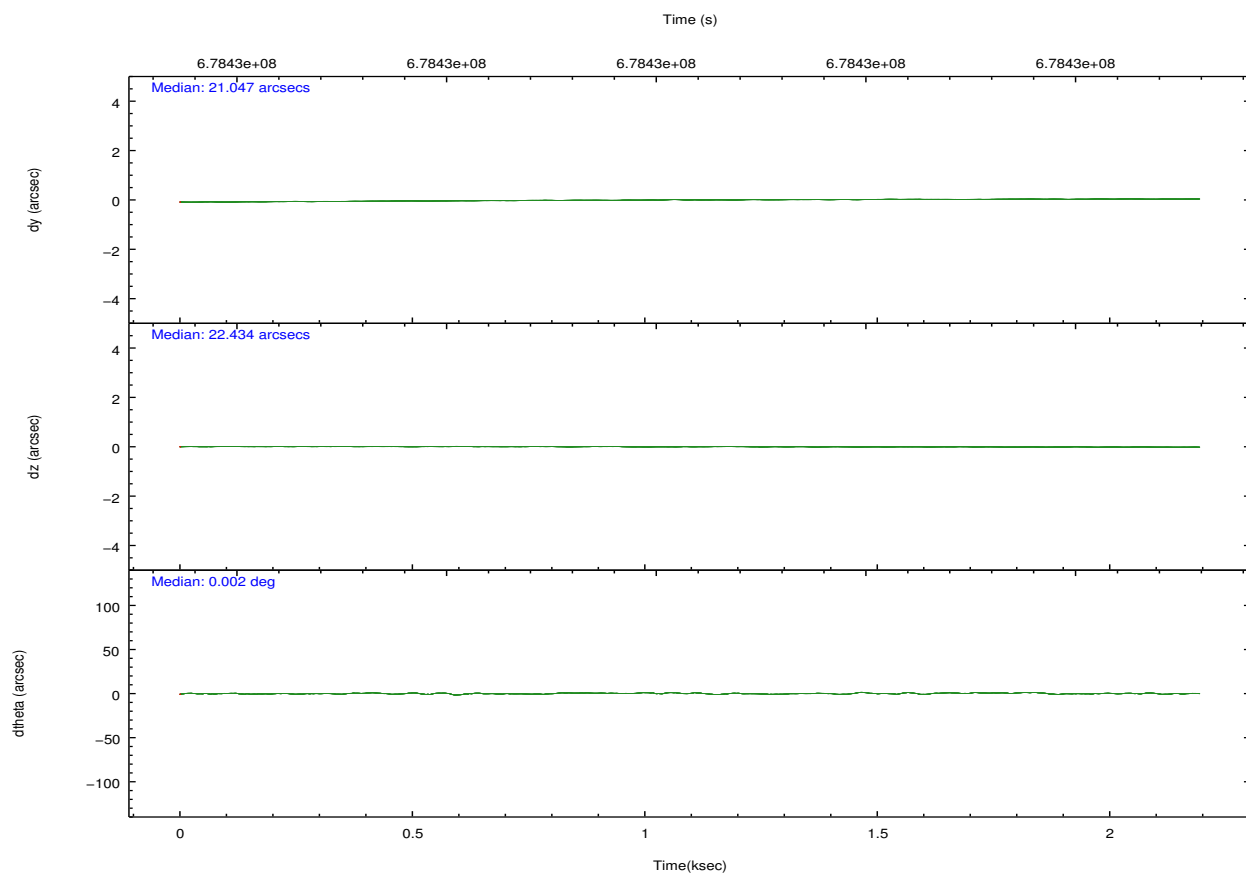
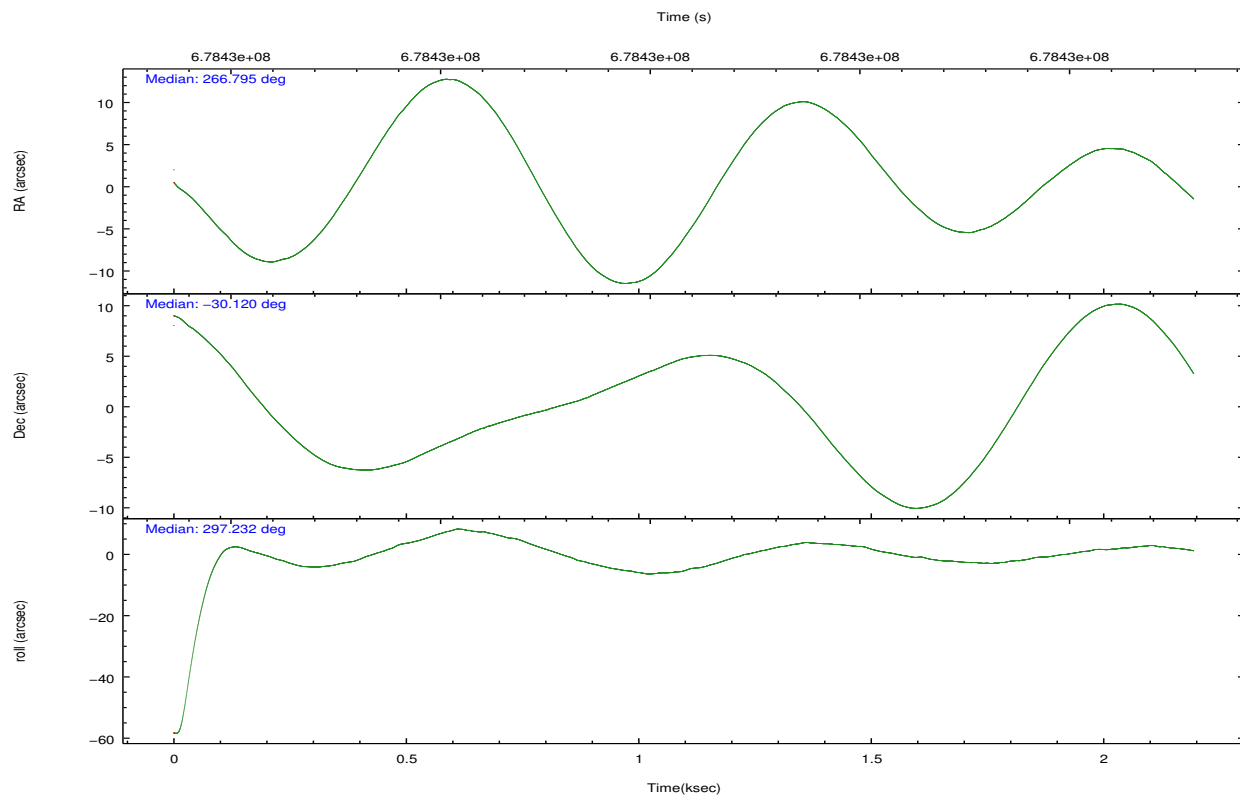
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	848	1004	1183	8634
	6%	7%	7%	30%
grade 1 events	11	10	17	706
	0%	0%	0%	2%
grade 2 events	503	536	498	2360
	3%	3%	3%	8%
grade 3 events	146	180	196	829
	1%	1%	1%	2%
grade 4 events	163	203	192	872
	1%	1%	1%	3%
grade 5 events	658	618	641	1386
	4%	4%	4%	4%
grade 6 events	387	431	383	1466
	2%	3%	2%	5%
grade 7 events	11244	11099	12620	12115
	80%	78%	80%	42%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	266.767909	266.7947723684581	Subarray requested	NONE	NONE
[deg] Pointing Dec	-30.105160	-30.11983755223836	Alternating exposures requested	N	N
[deg] Pointing Roll	296.993415	297.2151578477083	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	678429167.184000	678428791.1167001			
Observation start date	2019-07-02T04:31:38	2019-07-02T04:26:31			
[s] Observation end time (MET)	678431167.184000	678431301.34185			
Observation end date	2019-07-02T05:04:58	2019-07-02T05:08:21			
Read mode	TIMED	TIMED			

2.3 Aspect



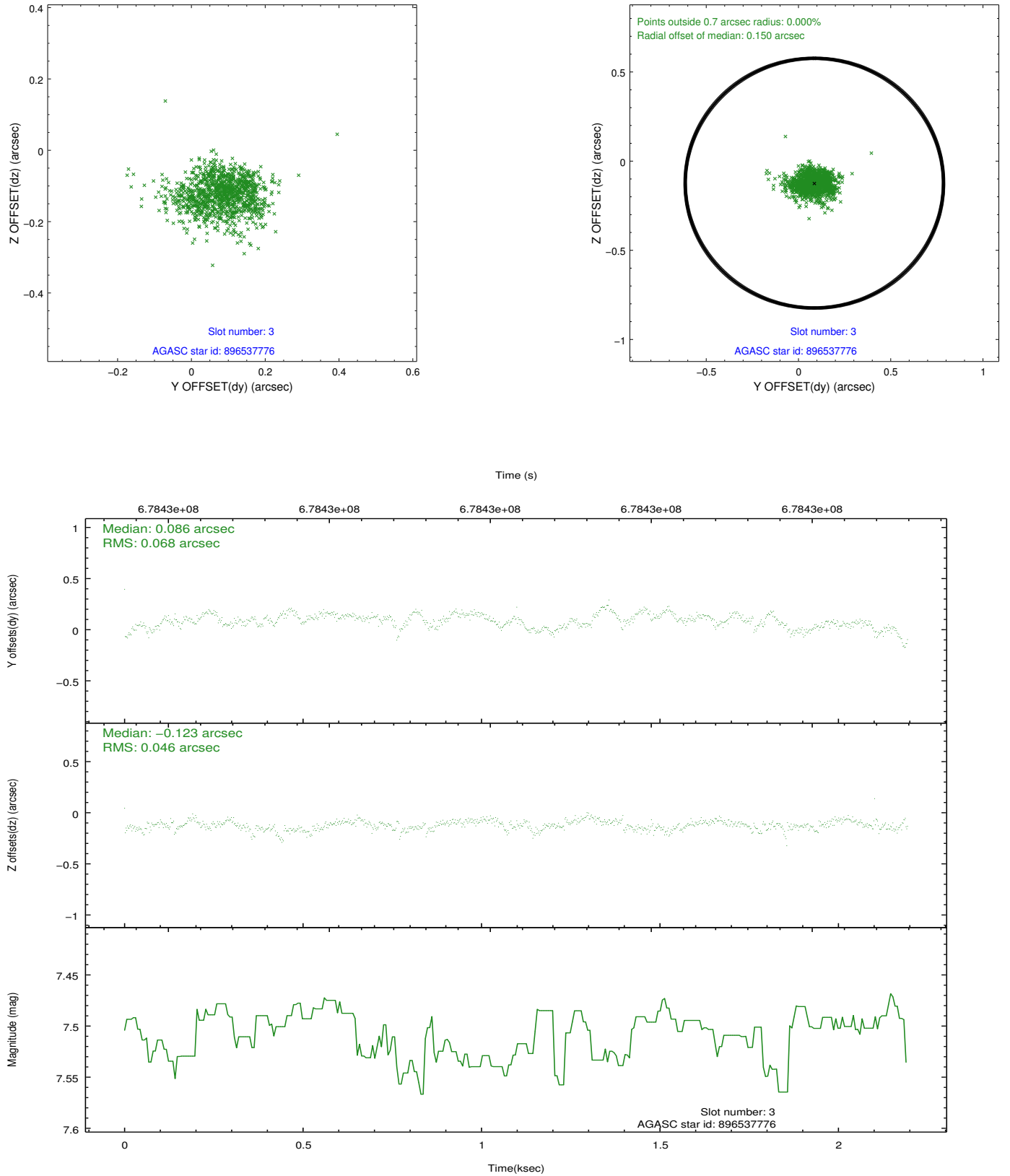


Slot Statistics

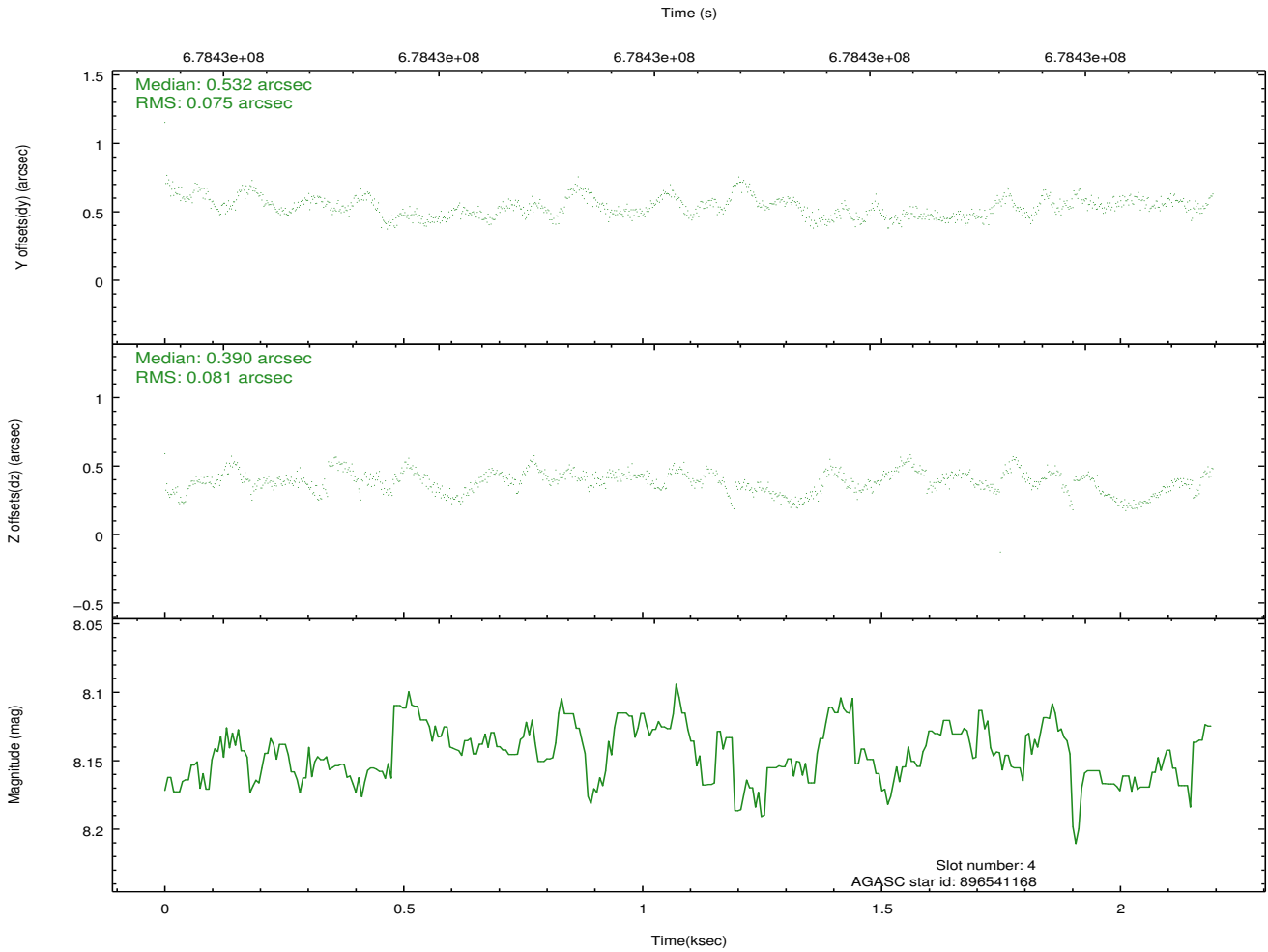
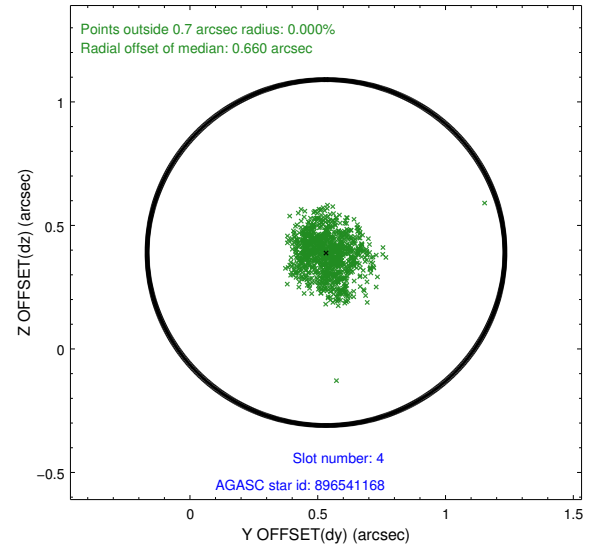
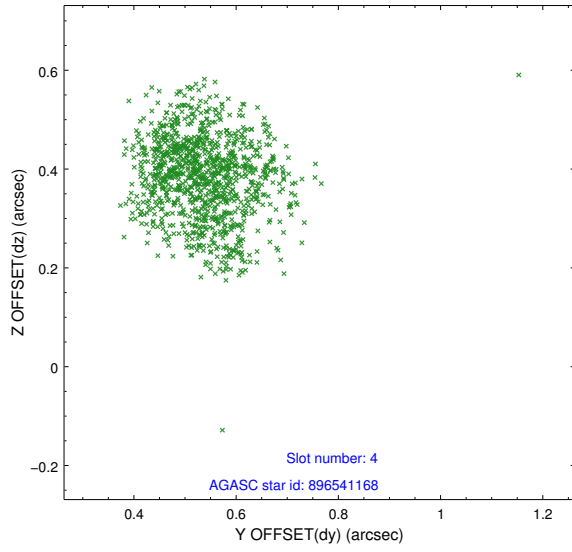
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.18	536	1.000	0.144	-0.071	0.008	0.012	0.000000	0.000000	918.33	-846
1	FID		ACIS-I-3	7.44	536	1.000	-0.167	0.091	0.007	0.011	0.000000	0.000000	37.14	-980
2	FID		ACIS-I-6	7.17	536	1.000	-0.067	0.047	0.007	0.012	0.000000	0.000000	384.09	1693
3	GUIDE	used	896537776	7.50	1071	1.000	0.086	-0.123	0.084	0.141	266.655684	-29.665673	-1567.83	405
4	GUIDE	used	896541168	8.15	1071	1.000	0.532	0.390	0.119	0.183	266.319970	-29.850801	-1448.44	-831
5	GUIDE	used	896541360	7.69	1071	1.000	0.060	-0.018	0.120	0.195	266.684478	-29.453744	-2208.46	830
6	GUIDE	used	966919736	6.91	1071	1.000	-0.345	-0.169	0.121	0.179	267.322278	-30.597445	2362.64	724
7	GUIDE	used	966920512	8.35	1062	1.000	-0.322	-0.062	0.096	0.147	267.231170	-30.494681	1907.42	642

2.4 Star Slots

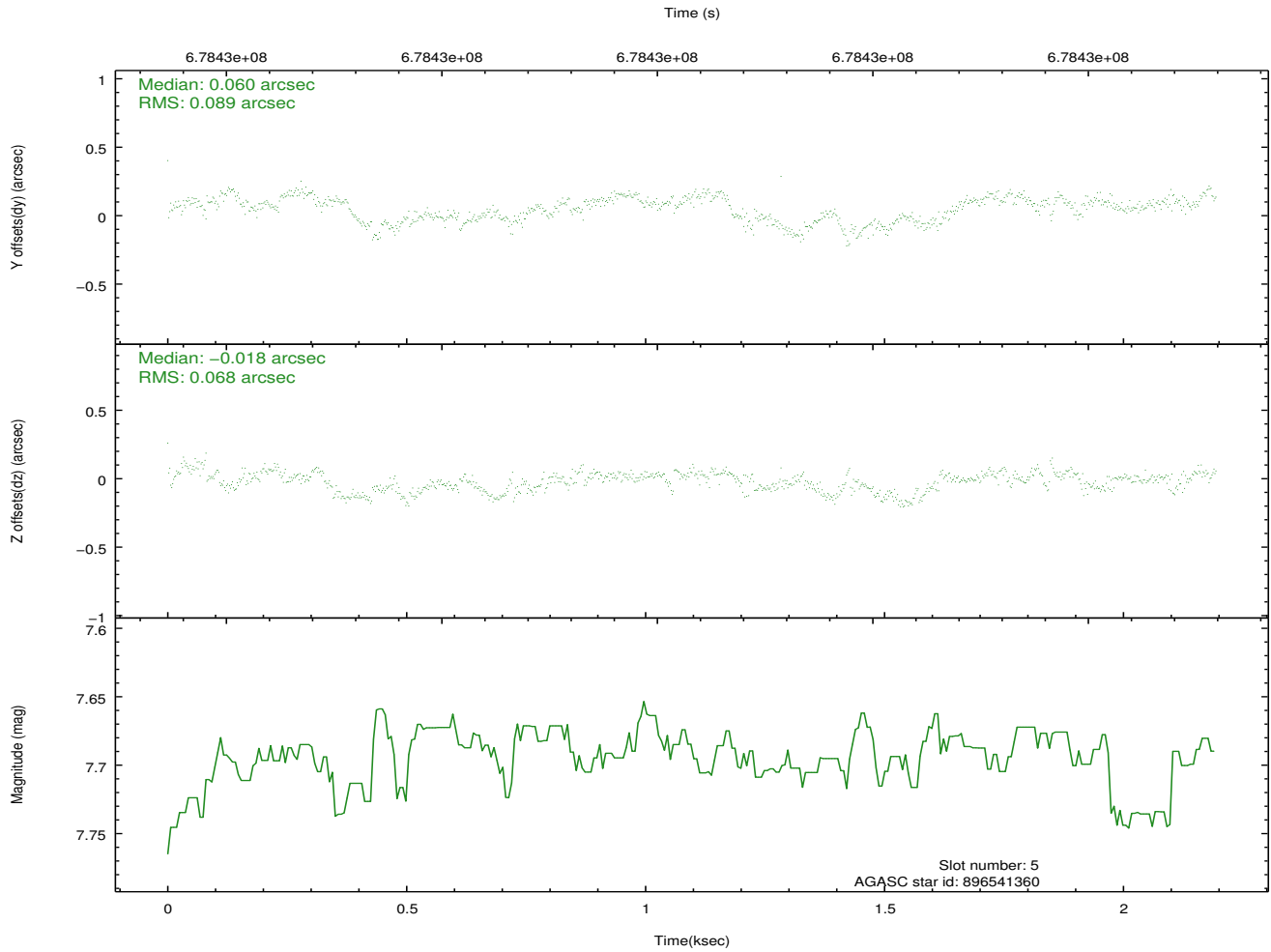
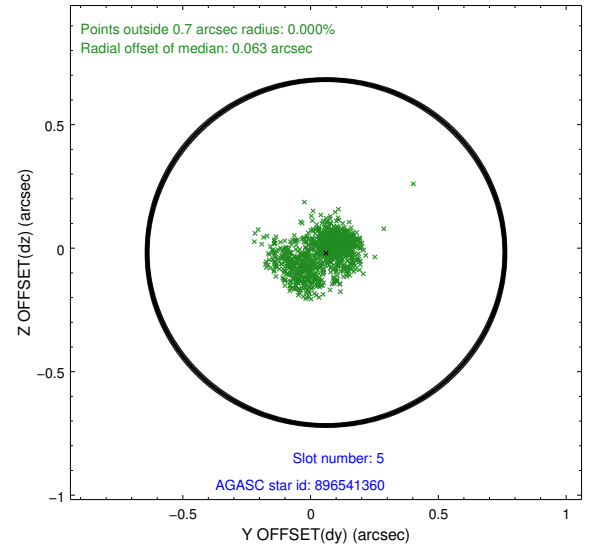
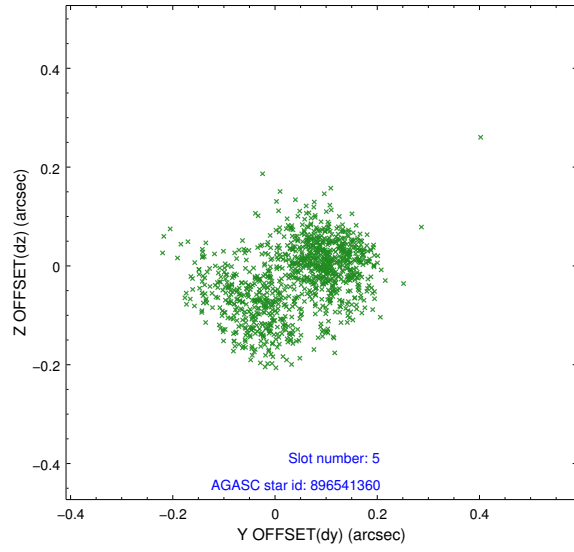
2.4.1 Slot 3



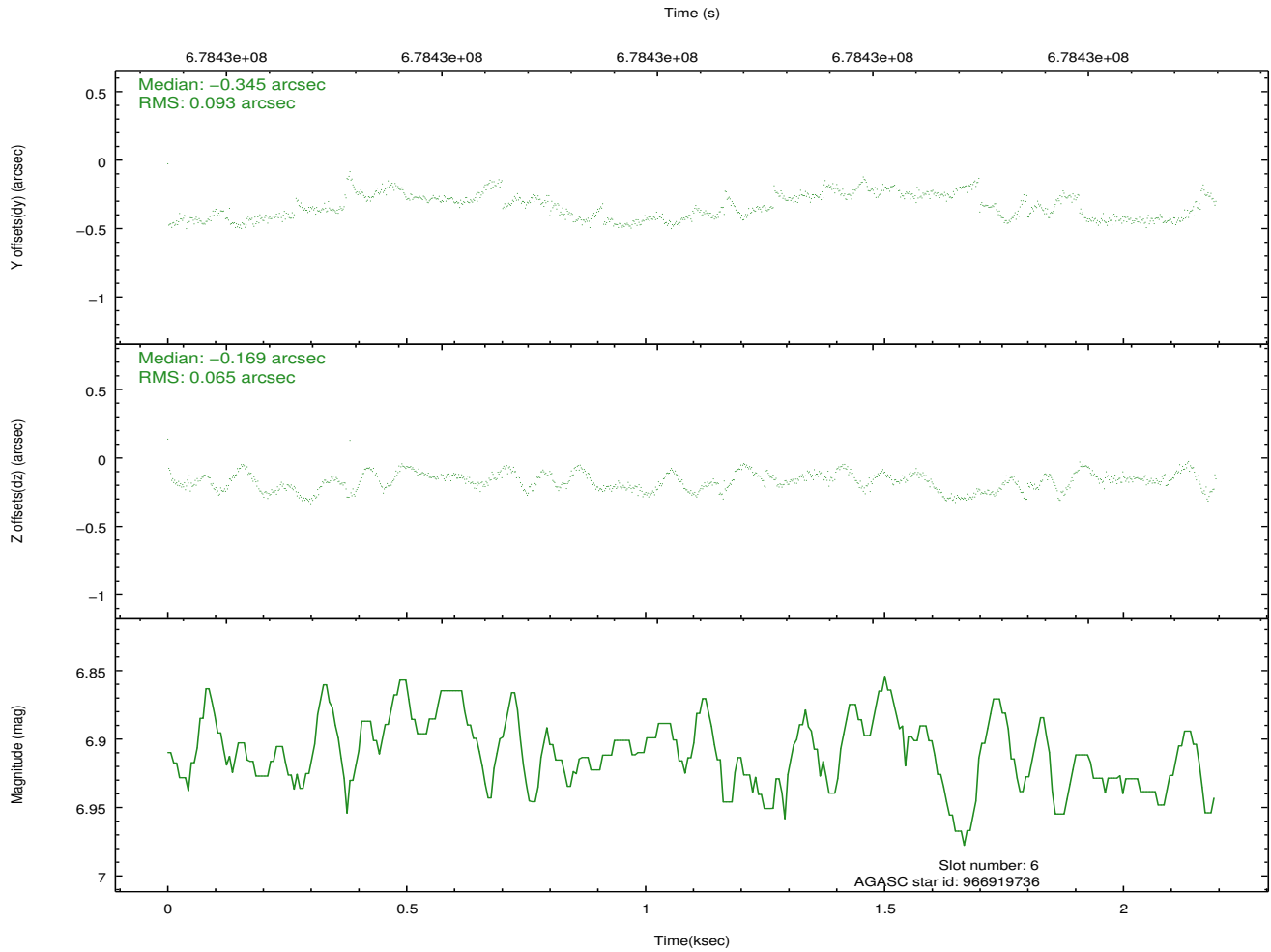
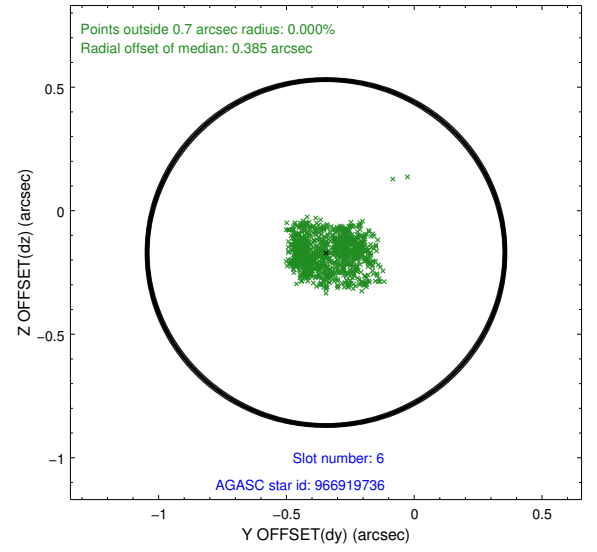
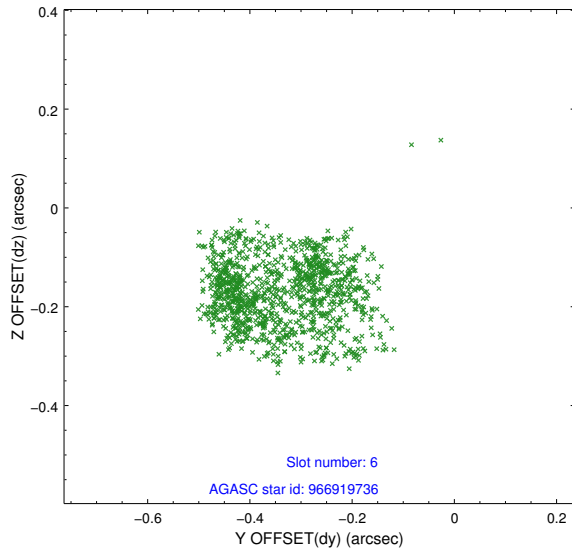
2.4.2 Slot 4



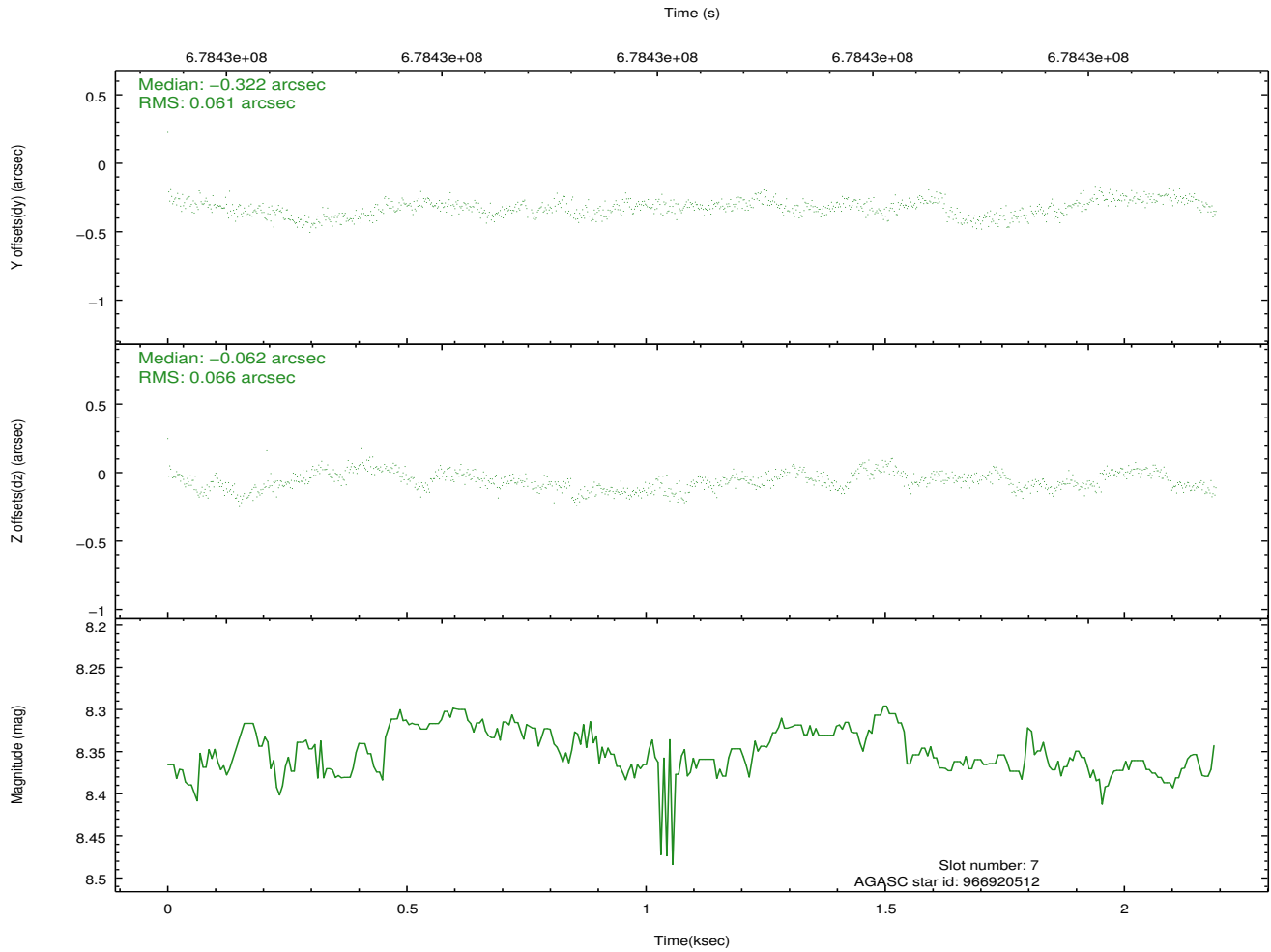
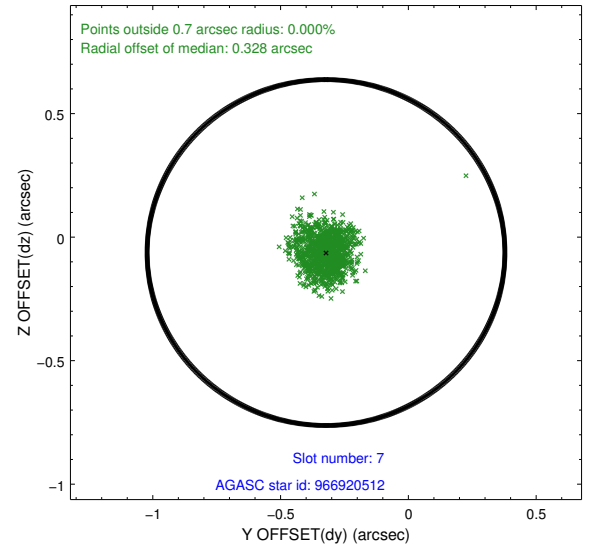
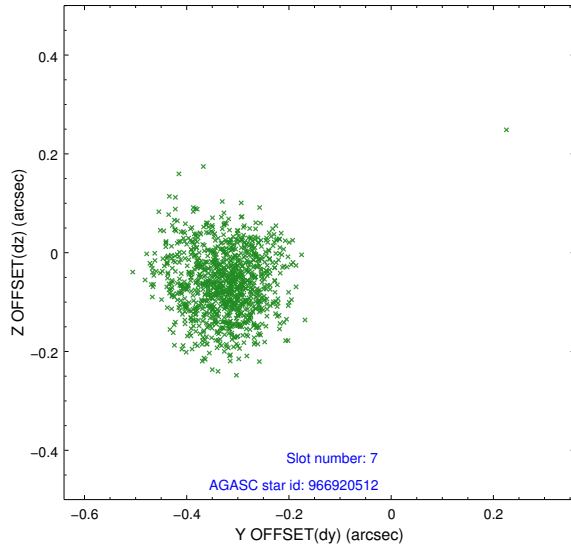
2.4.3 Slot 5



2.4.4 Slot 6

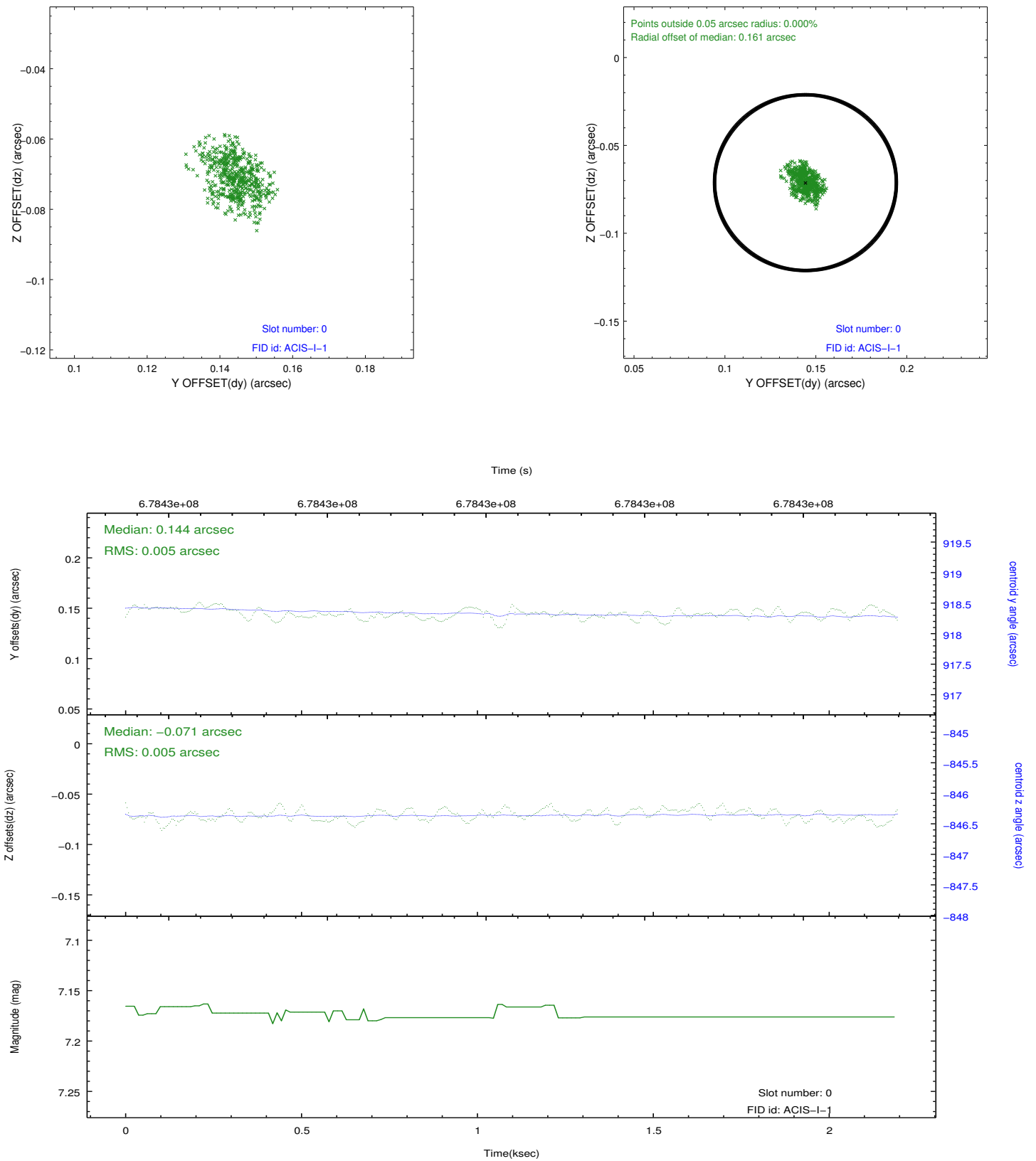


2.4.5 Slot 7

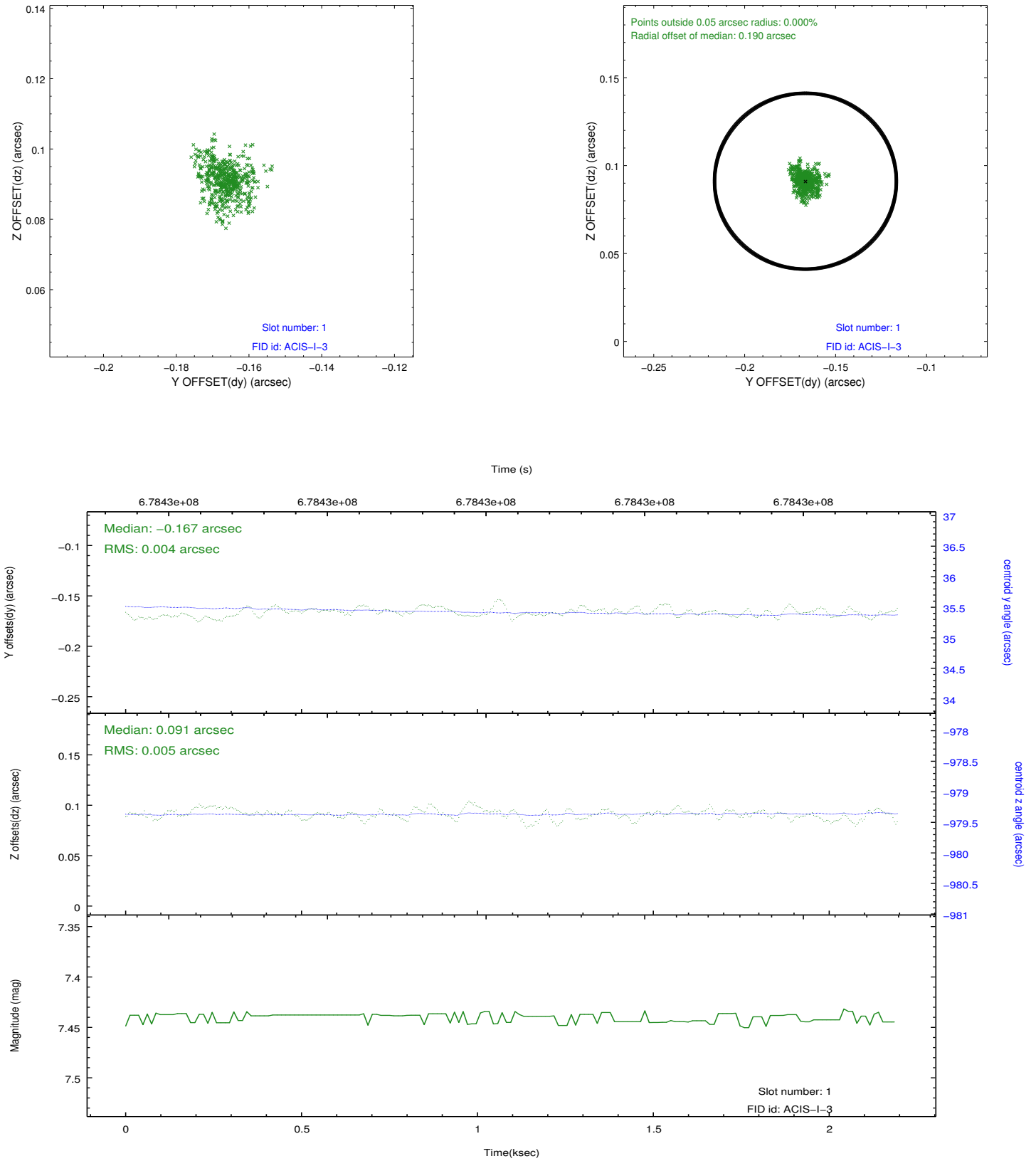


2.5 FID Slots

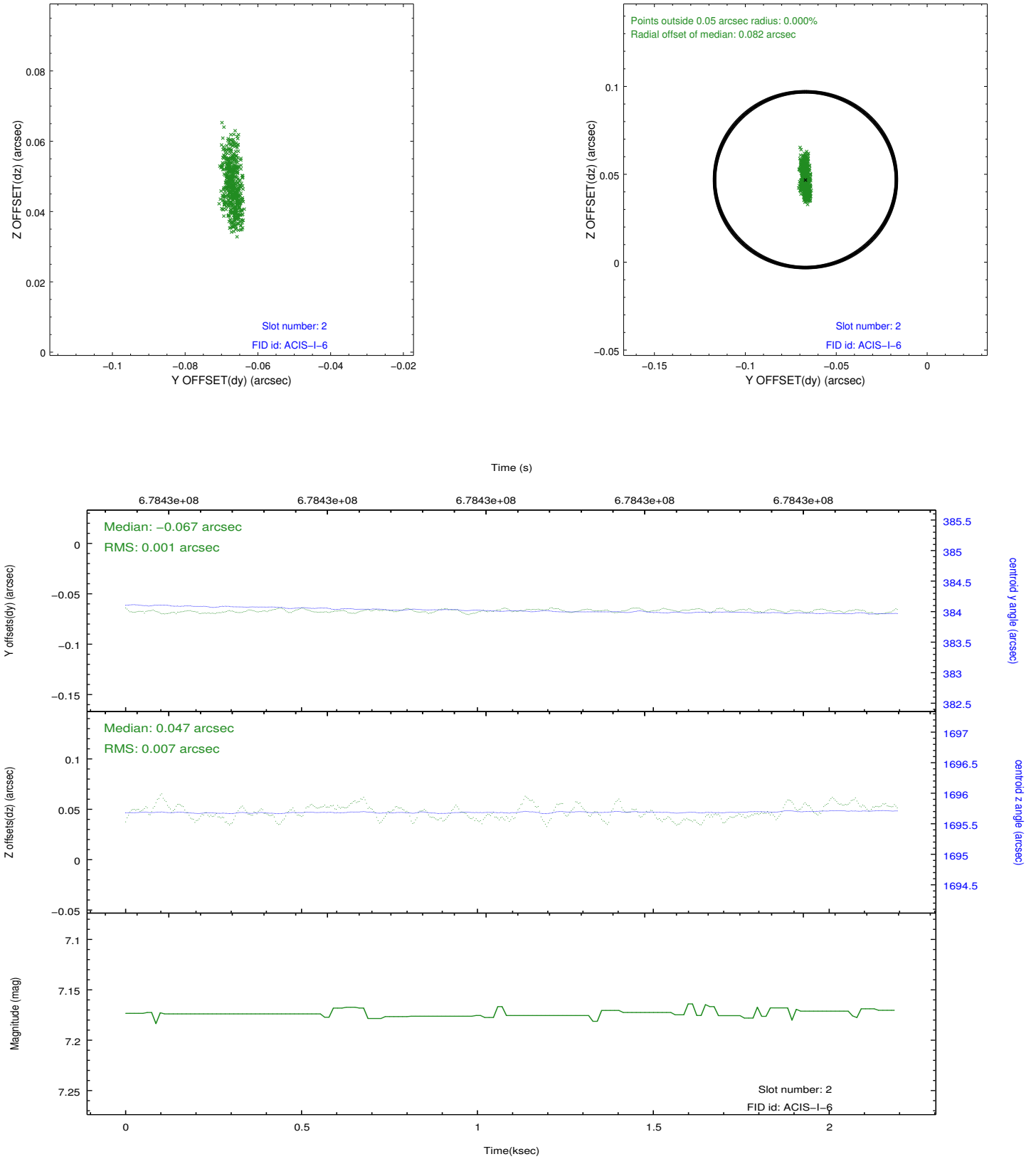
2.5.1 Slot 0



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)	2019.07.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9082469222546

A.2 Comments