

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21589 - L2 Version 1
Chandra X-Ray Center

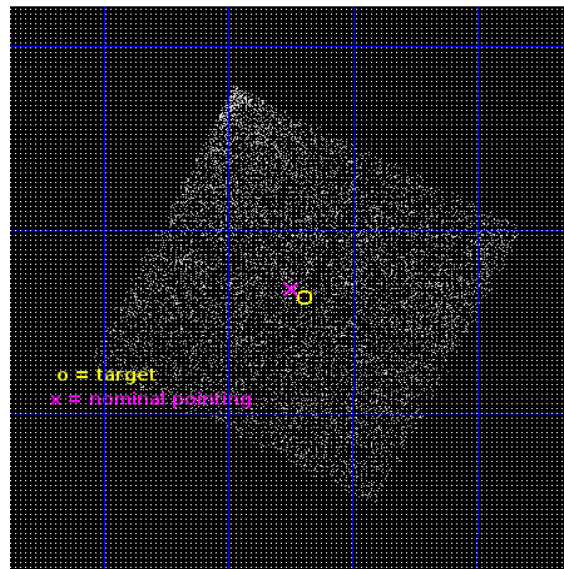
L2 Processing Date : Jul 3 2019

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1 Front

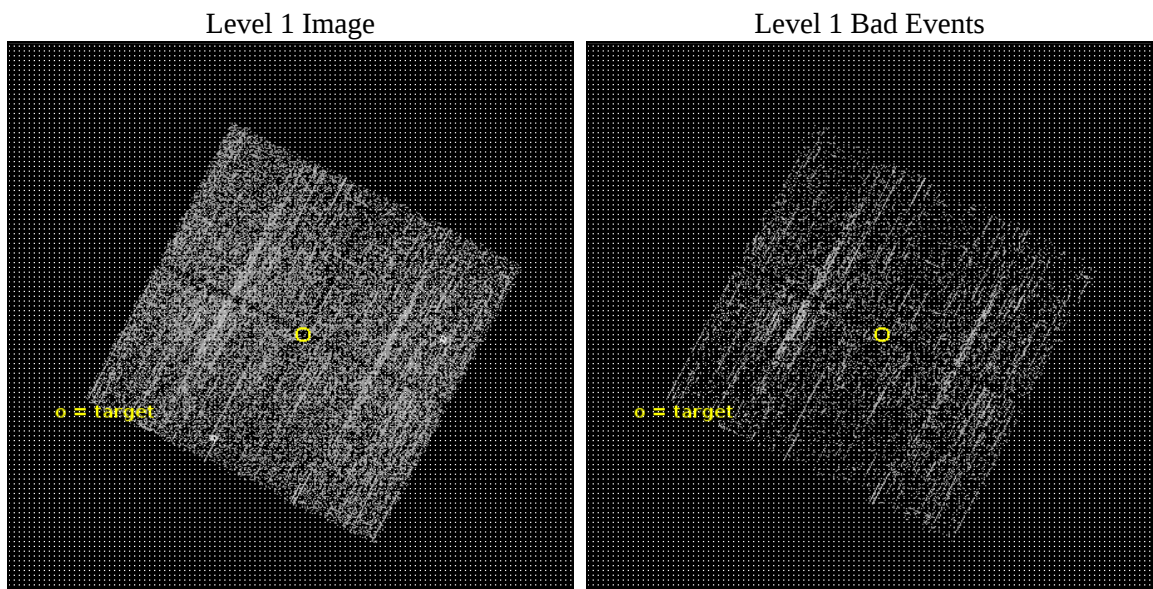
seq_num	300421	Sequence number
obs_id	21589	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.42361	Observer's specified target RA [deg]
dec_targ	-29.728552	Observer's specified target Dec [deg]
ra_nom	266.43671271834	Nominal RA [deg]
dec_nom	-29.720144463033	Nominal Dec [deg]
roll_nom	297.21523499341	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.486597538	Sum of GTIs [s]
livetime	1883.5508151338	Livetime [s]
ontime0	1908.4455575943	Sum of GTIs [s]
ontime1	1908.486597538	Sum of GTIs [s]
ontime2	1908.5276376009	Sum of GTIs [s]
ontime3	1908.5686775446	Sum of GTIs [s]
l2events	7155	Number of level 2 events



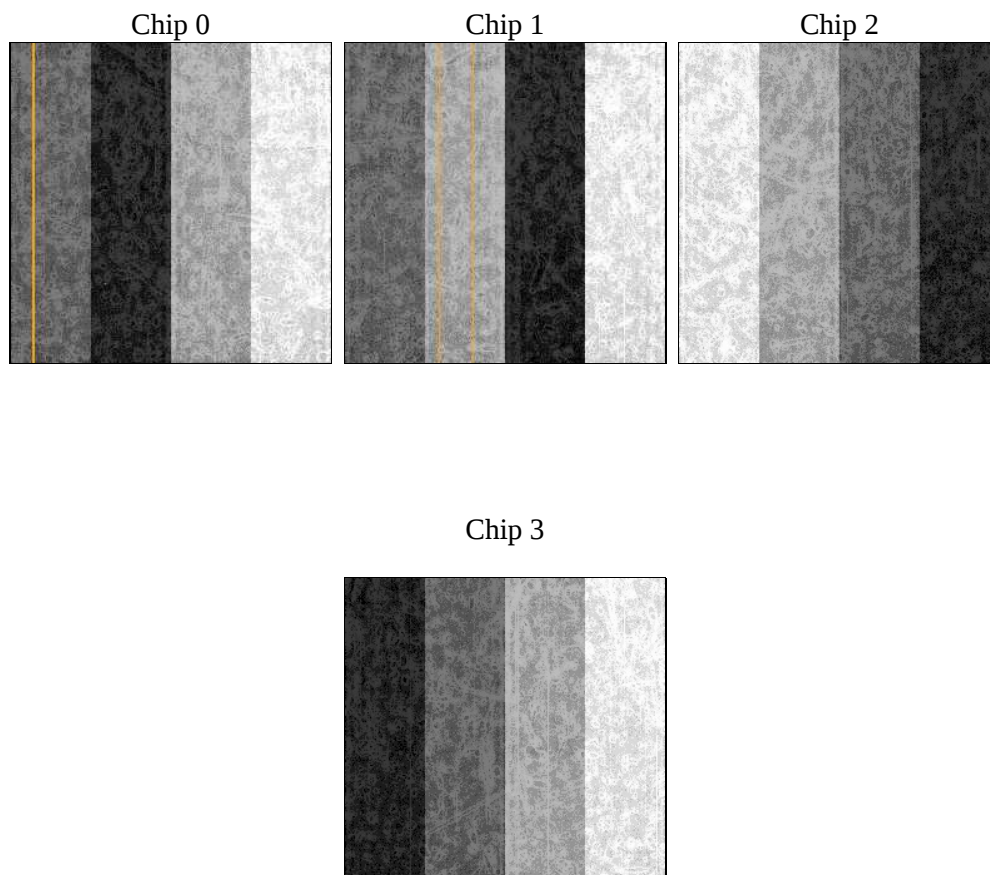
2 OBI

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	1908.486597538	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.4455575943	Sum of GTIs [s]
date	2019-07-03T19:47:38	Date and time of file creation	ontime1	1908.486597538	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.5276376009	Sum of GTIs [s]
			ontime3	1908.5686775446	Sum of GTIs [s]
			l1events	59476	Number of level 1 events

2.1.4 Events

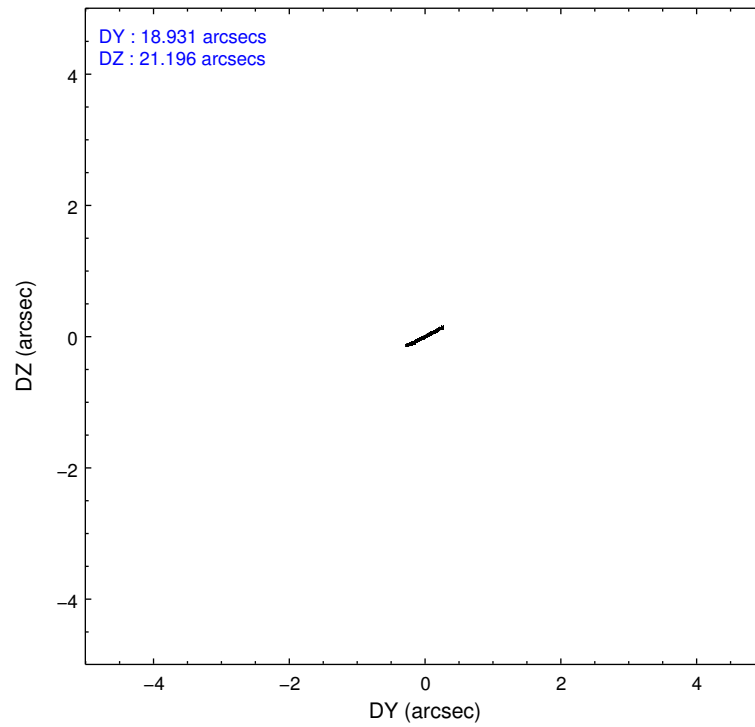
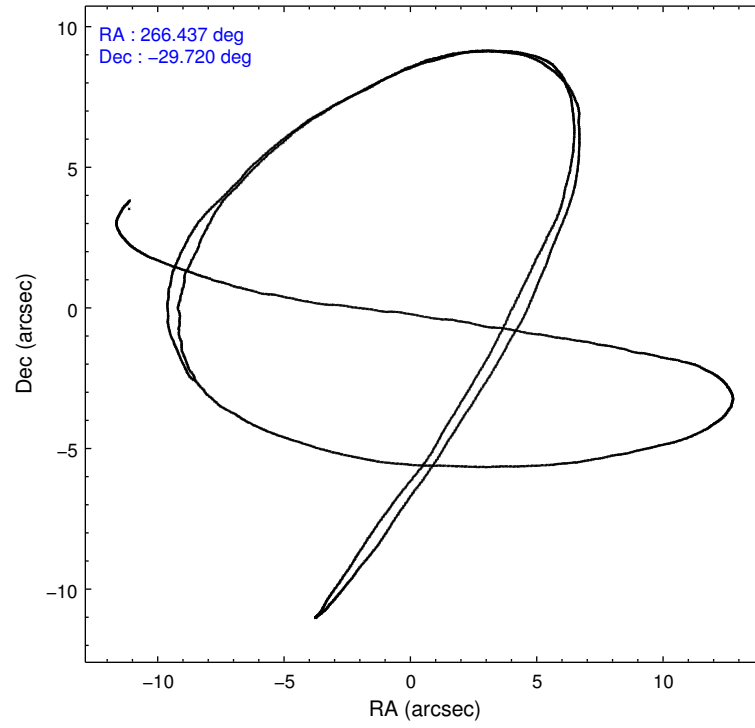
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	14176	14603	15882	14815
rejected events	12334	11895	13632	12342
rejected %	87%	81%	85%	83%

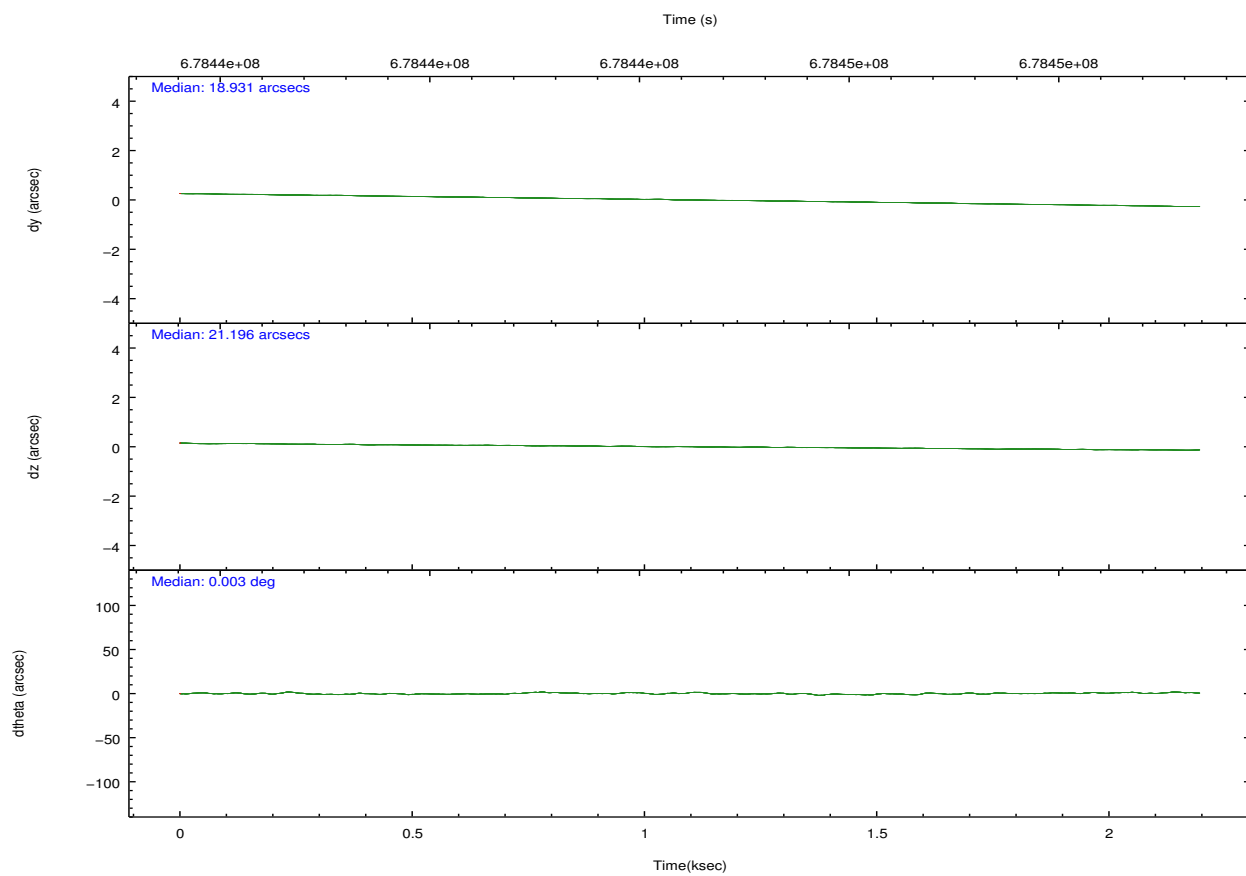
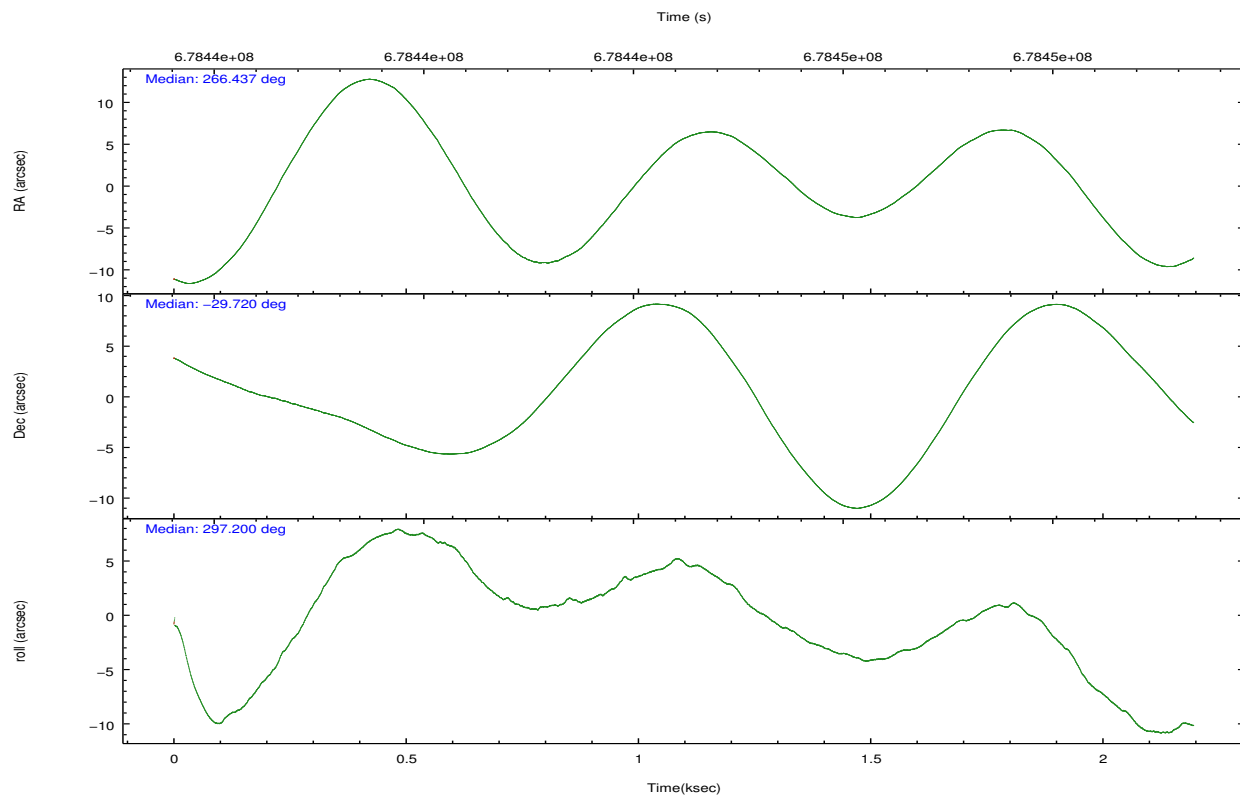
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	693	1364	1178	1183
	4%	9%	7%	7%
grade 1 events	8	16	20	15
	0%	0%	0%	0%
grade 2 events	469	533	394	476
	3%	3%	2%	3%
grade 3 events	155	185	167	238
	1%	1%	1%	1%
grade 4 events	165	188	164	204
	1%	1%	1%	1%
grade 5 events	590	642	605	726
	4%	4%	3%	4%
grade 6 events	363	441	353	377
	2%	3%	2%	2%
grade 7 events	11733	11234	13001	11596
	82%	76%	81%	78%

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	266.410044	266.4367127183366	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.705385	-29.72014446303273	Alternating exposures requested	N	N
[deg] Pointing Roll	296.993279	297.2152349934114	[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)	678444227.184000	678443851.4426			
Observation start date	2019-07-02T08:42:38	2019-07-02T08:37:31			
[s] Observation end time (MET)	678446227.184000	678446361.66775			
Observation end date	2019-07-02T09:15:58	2019-07-02T09:19:21			
Read mode	TIMED	TIMED			

2.3 Aspect



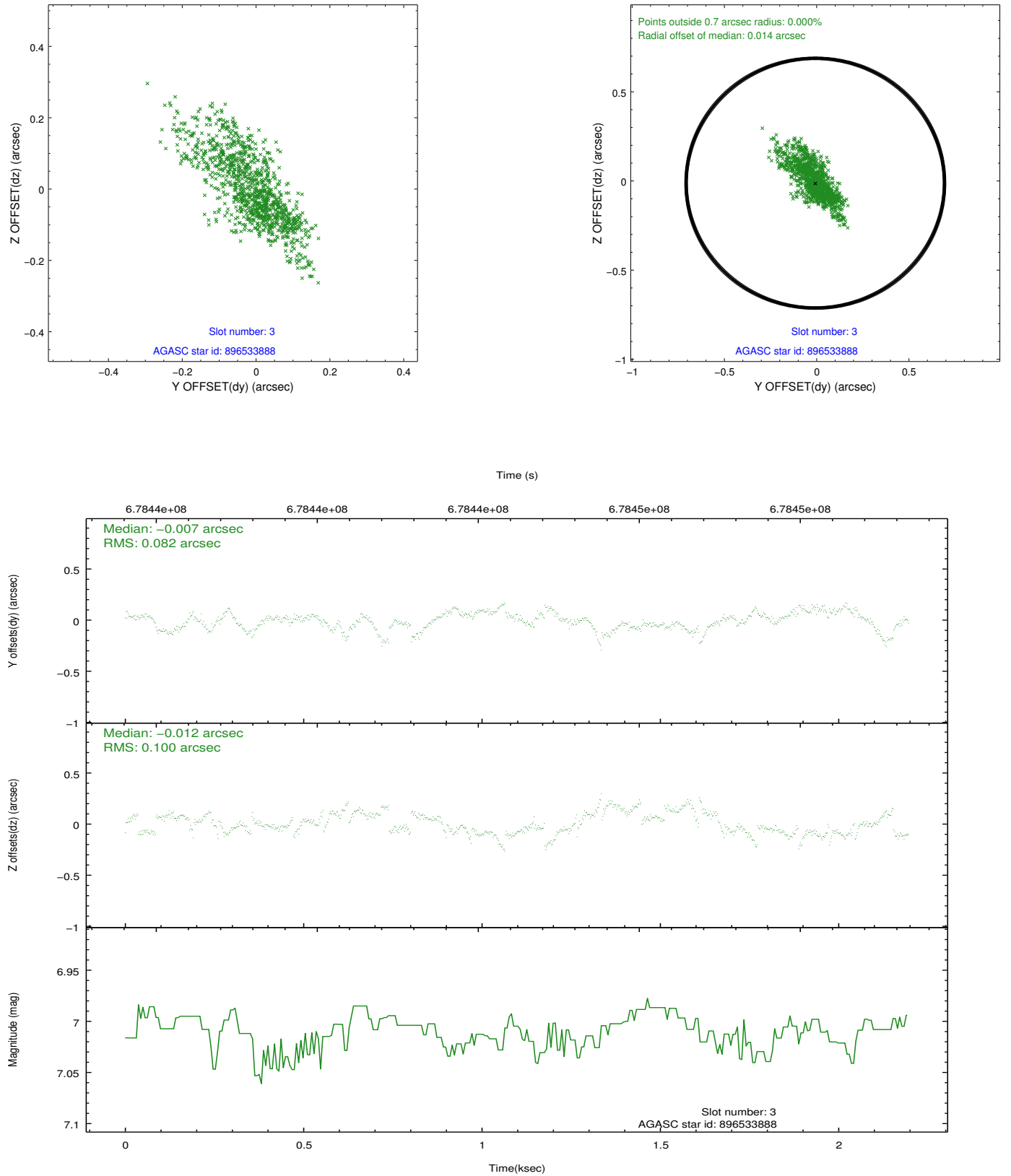


Slot Statistics

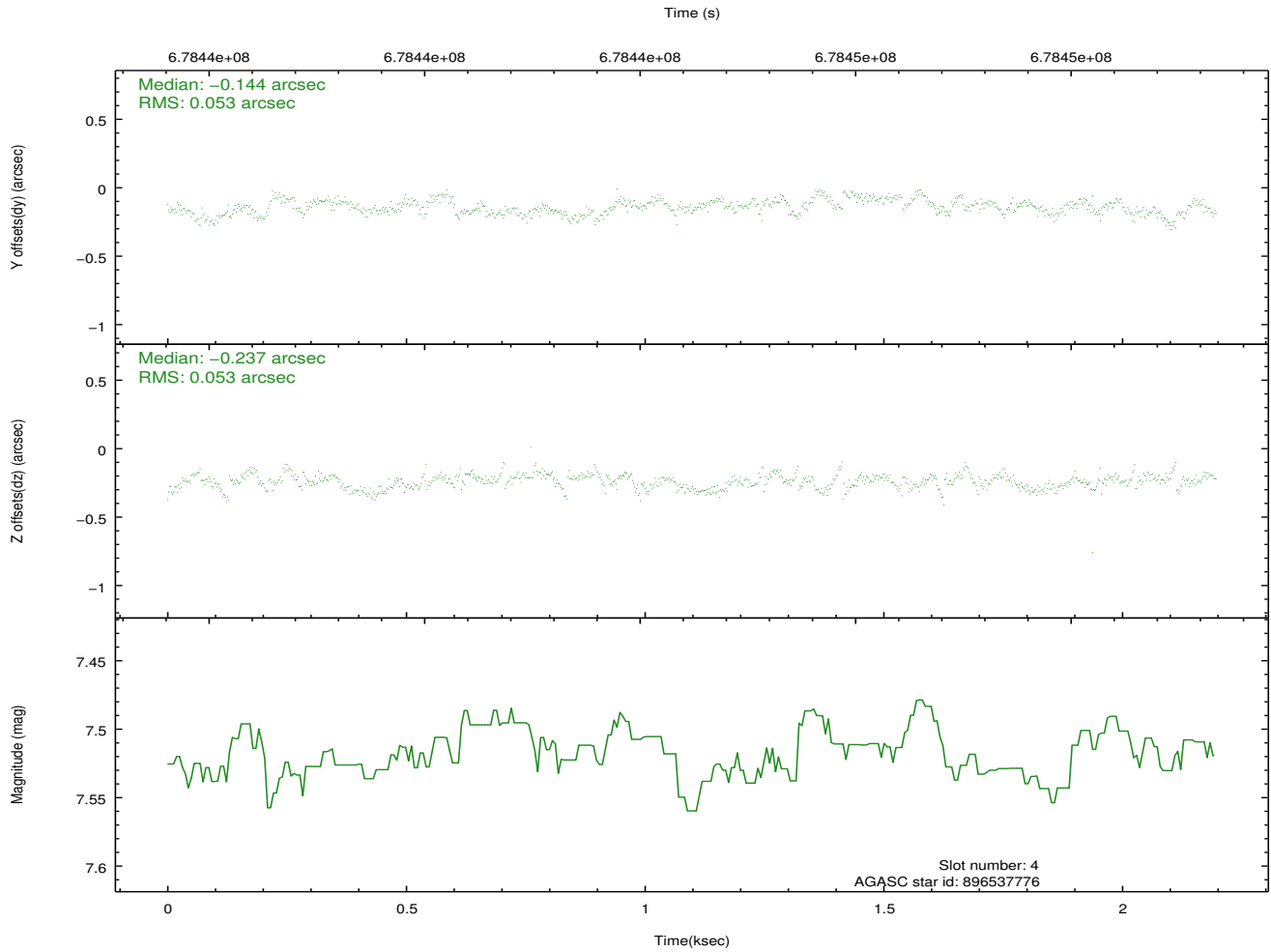
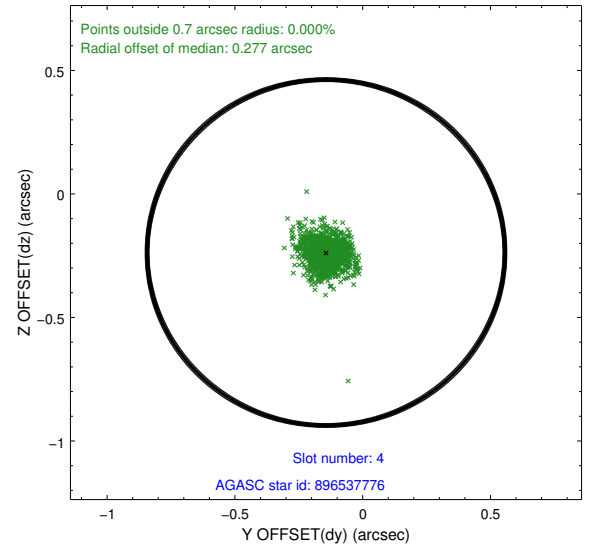
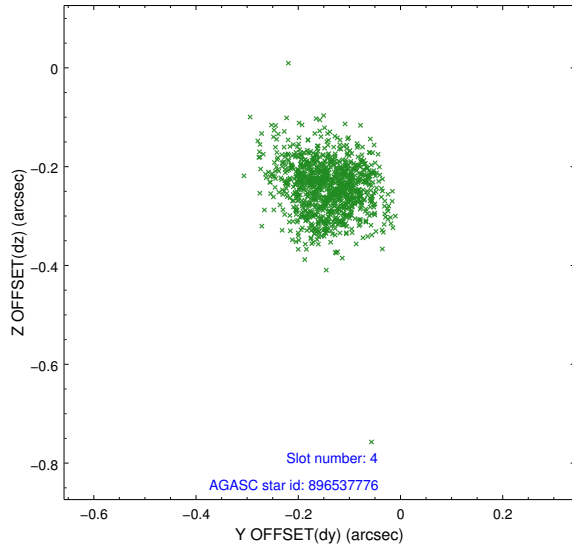
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.22	536	1.000	0.144	-0.134	0.008	0.014	0.000000	0.000000	920.48	-845
1	FID		ACIS-I-3	7.46	536	1.000	-0.156	0.075	0.007	0.012	0.000000	0.000000	39.30	-979
2	FID		ACIS-I-6	7.19	536	1.000	-0.077	0.127	0.005	0.011	0.000000	0.000000	386.28	1695
3	GUIDE	used	896533888	7.01	1072	1.000	-0.007	-0.012	0.133	0.243	266.666434	-29.392757	-636.40	1227
4	GUIDE	used	896537776	7.52	1072	1.000	-0.144	-0.237	0.078	0.130	266.655684	-29.665673	222.01	750
5	GUIDE	used	896541168	8.14	1072	1.000	0.003	0.078	0.166	0.261	266.319970	-29.850801	340.18	-487
6	GUIDE	used	896541360	7.70	1072	1.000	0.174	-0.013	0.084	0.160	266.684478	-29.453744	-414.91	1176
7	GUIDE	used	966924920	8.07	1071	1.000	-0.021	0.174	0.144	0.259	265.875401	-30.176961	762.31	-2253

2.4 Star Slots

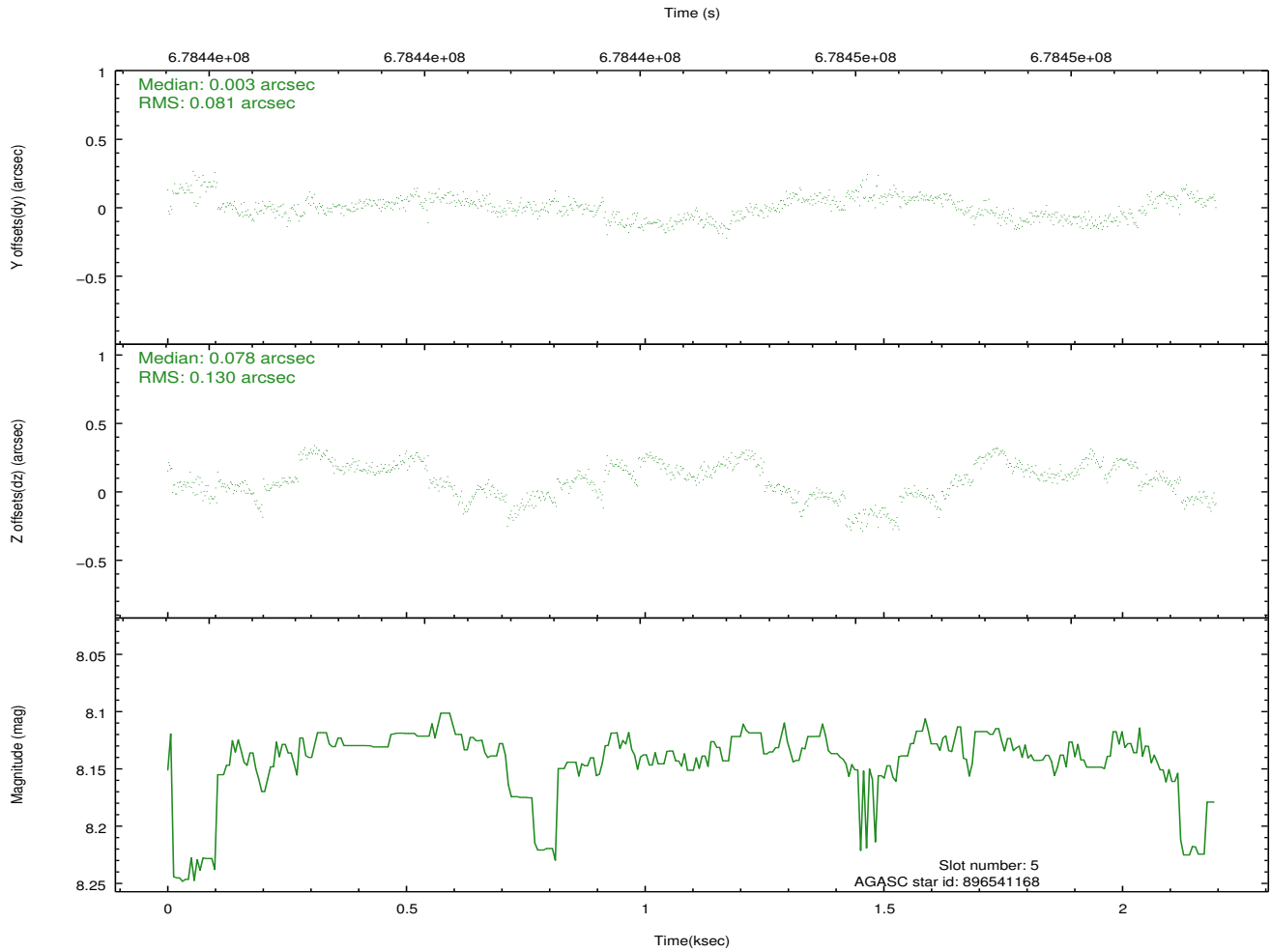
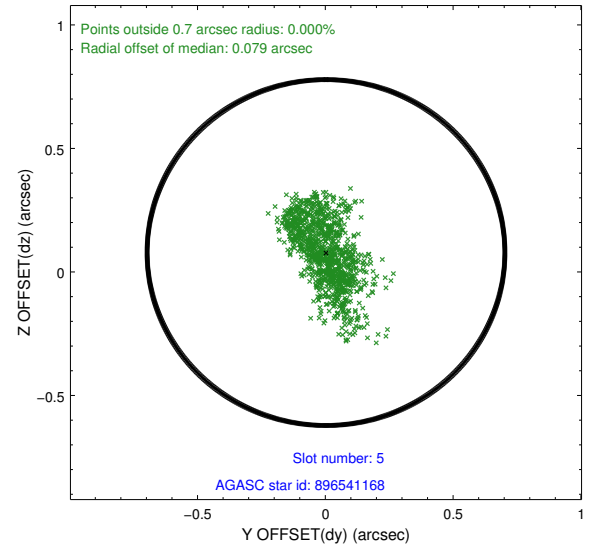
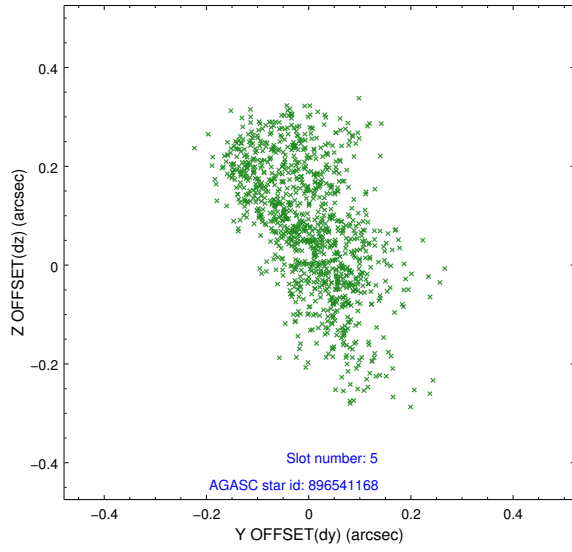
2.4.1 Slot 3



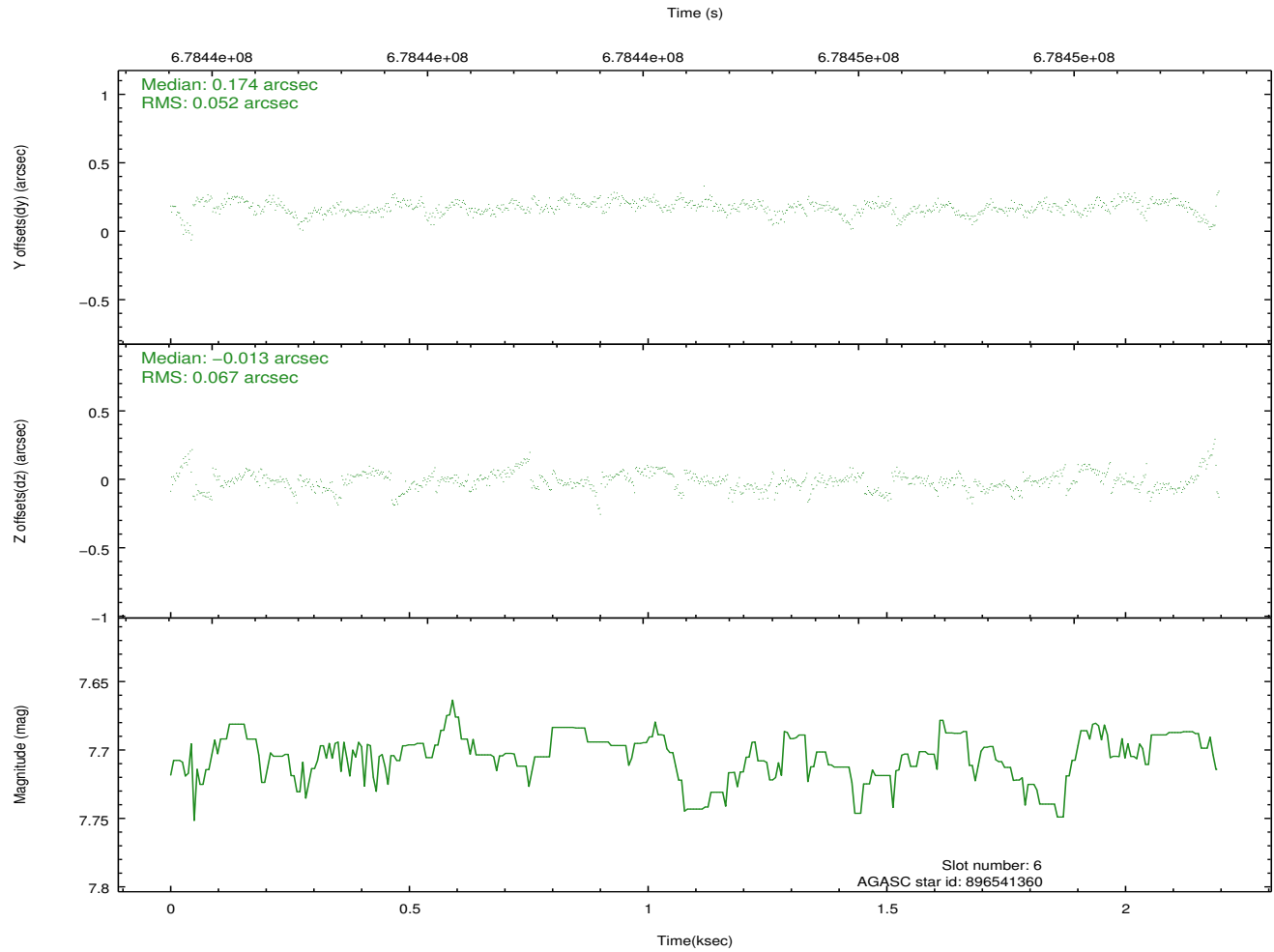
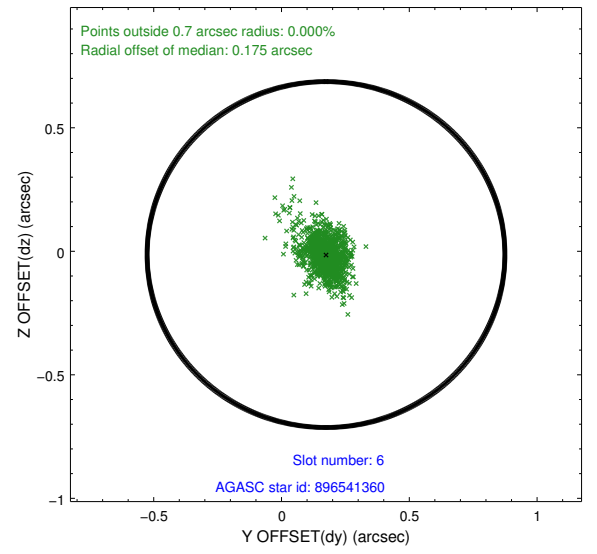
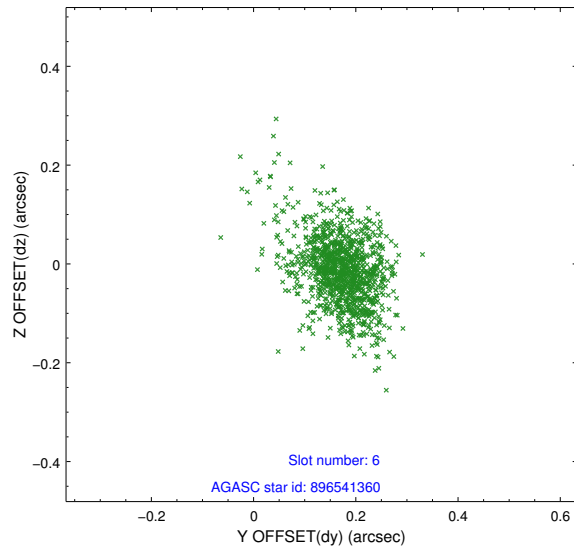
2.4.2 Slot 4



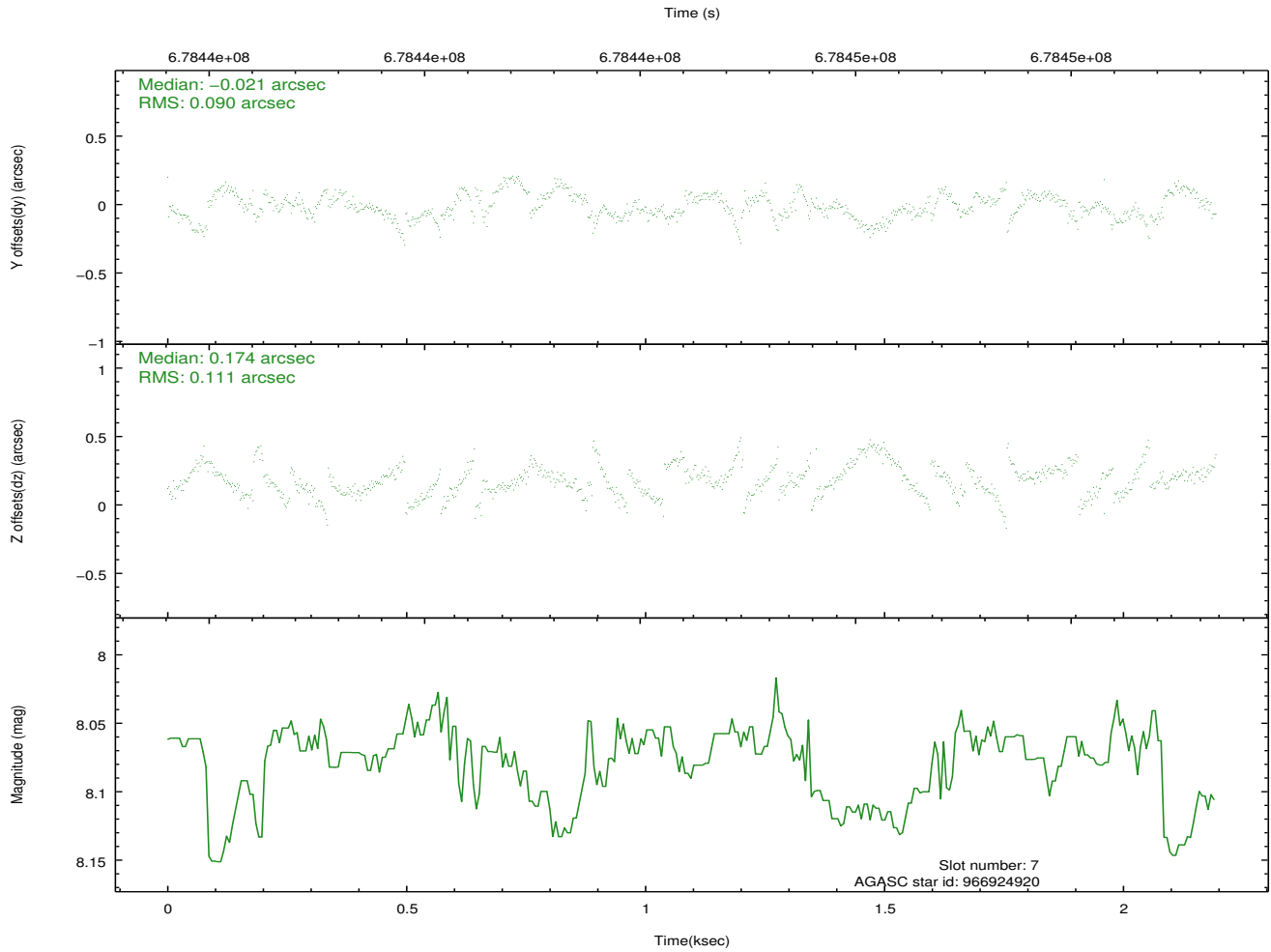
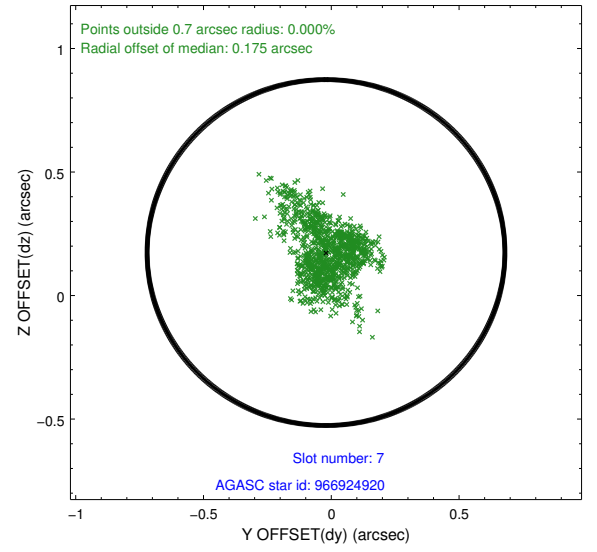
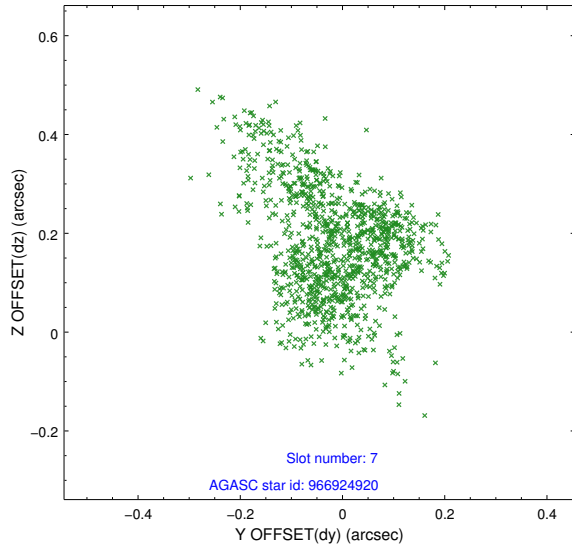
2.4.3 Slot 5



2.4.4 Slot 6

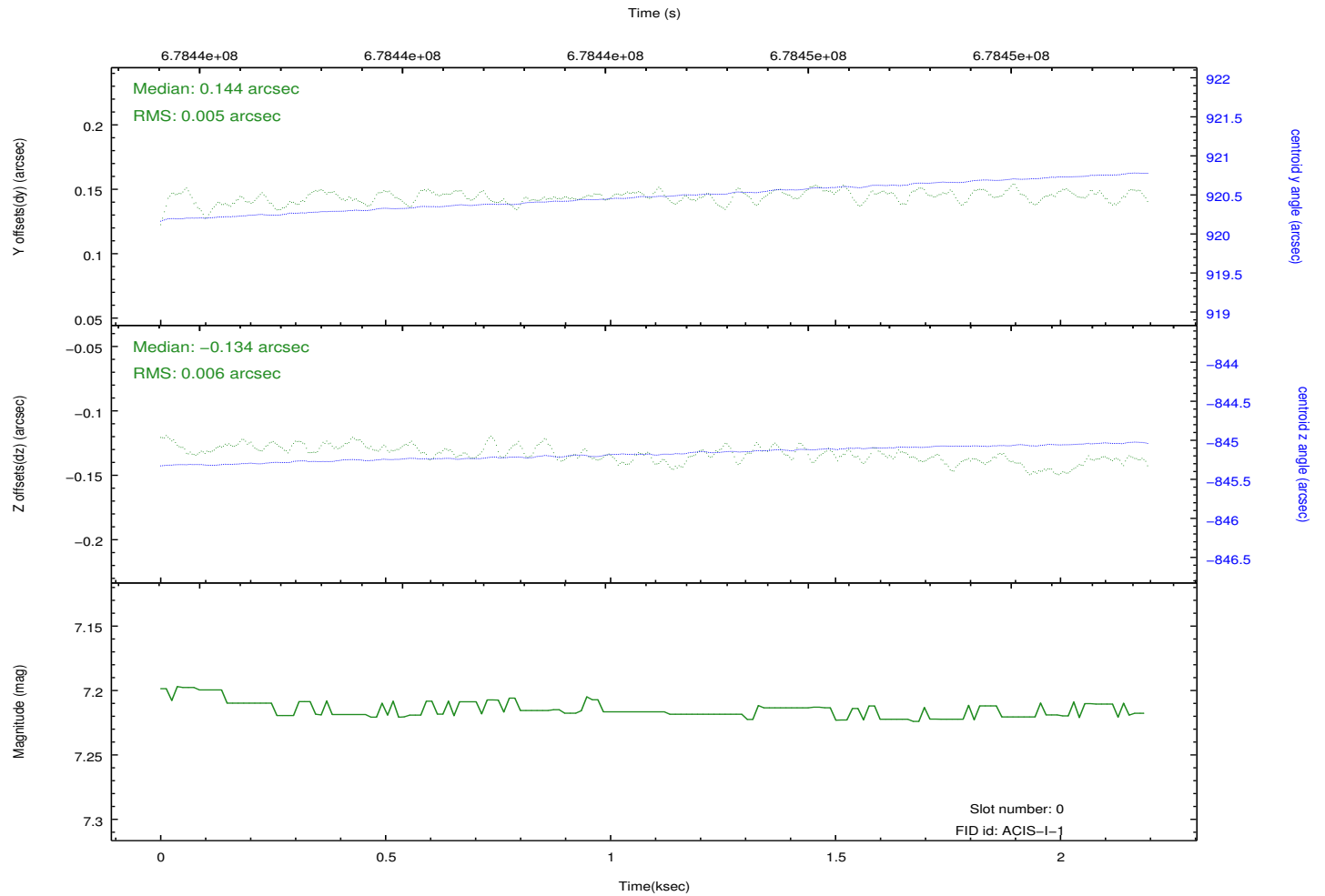
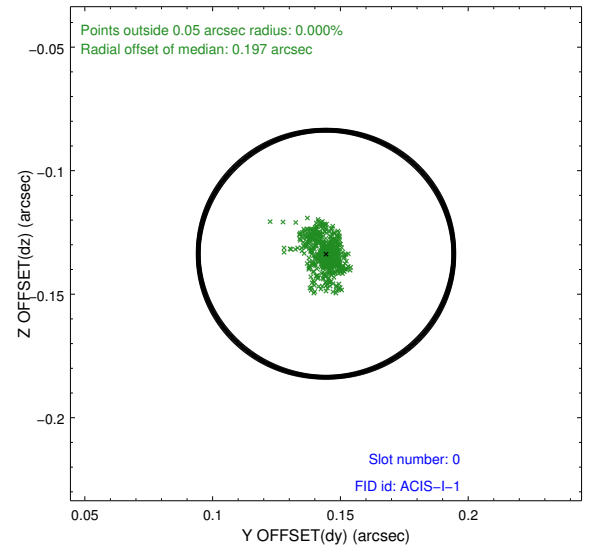
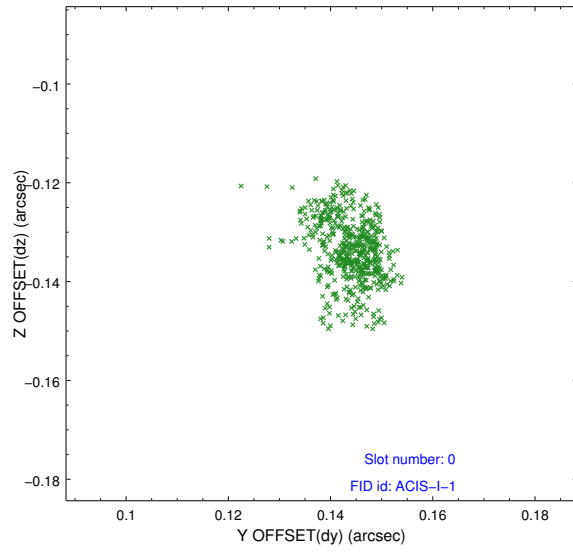


2.4.5 Slot 7

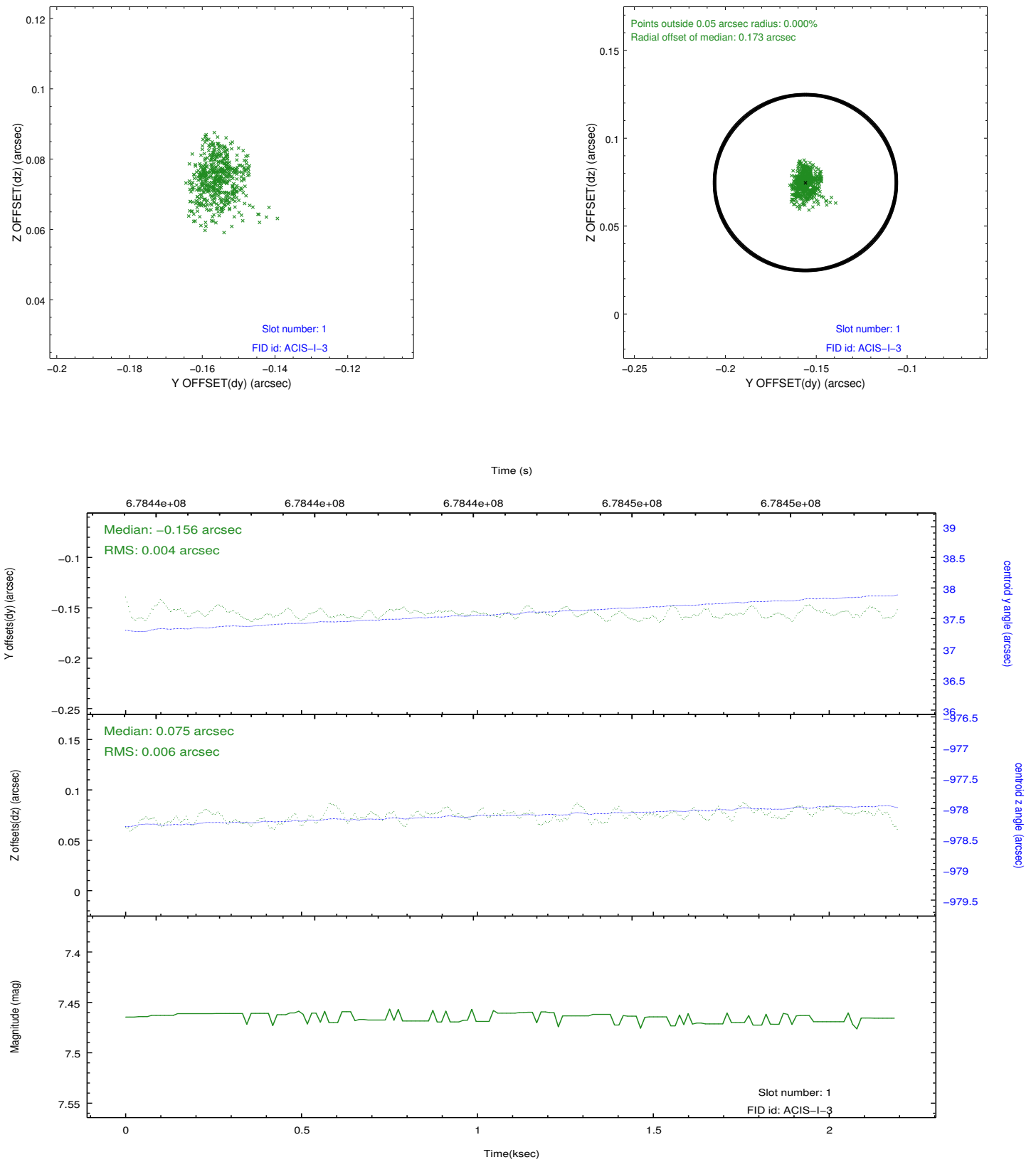


2.5 FID Slots

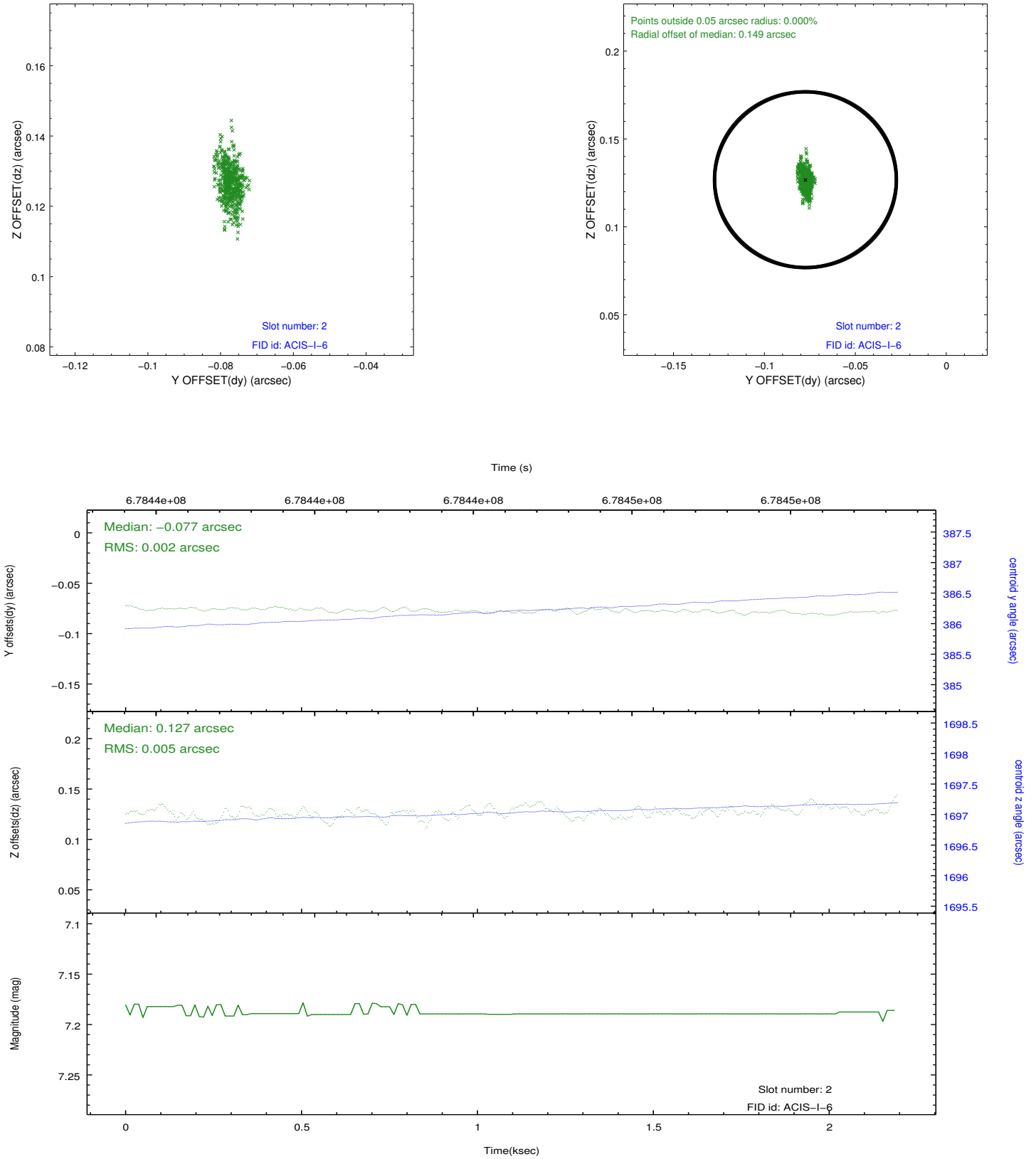
2.5.1 Slot 0



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)	2019.07.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.908486597538

A.2 Comments