

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21601 - L2 Version 1
Chandra X-Ray Center

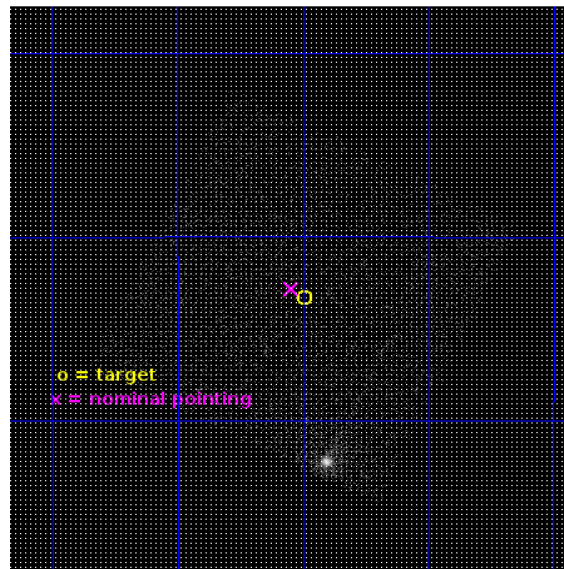
L2 Processing Date : Jul 3 2019

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

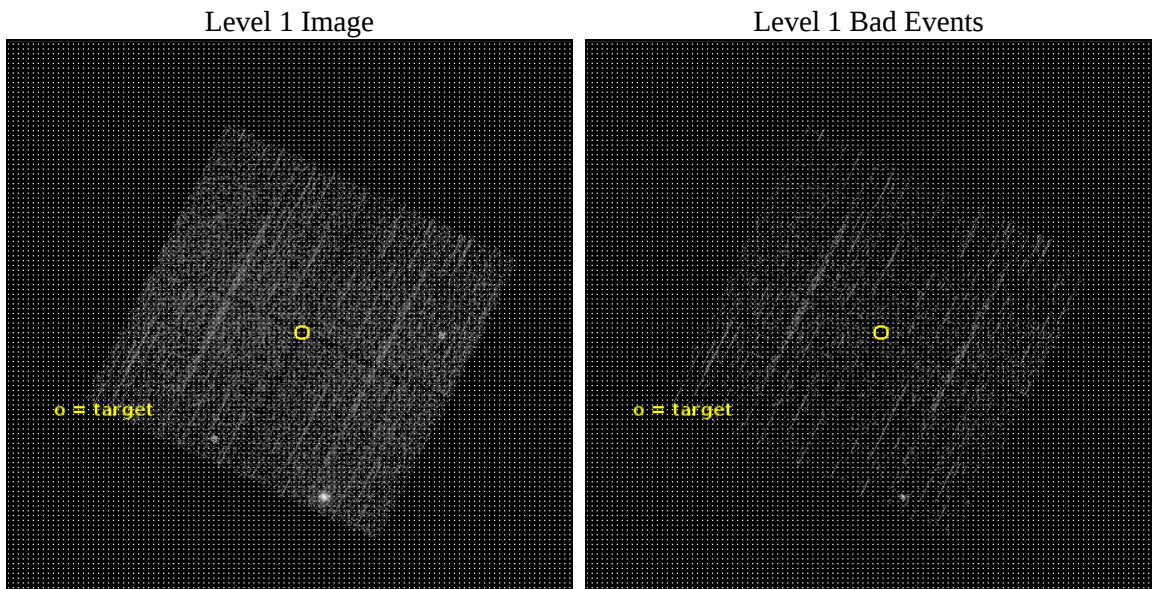
seq_num	300433	Sequence number
obs_id	21601	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.62367	Observer's specified target RA [deg]
dec_targ	-28.889028	Observer's specified target Dec [deg]
ra_nom	267.63633388885	Nominal RA [deg]
dec_nom	-28.880402139621	Nominal Dec [deg]
roll_nom	296.21481791334	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.9008492231	Sum of GTIs [s]
livetime	1883.9596543157	Livetime [s]
ontime0	1908.8598092794	Sum of GTIs [s]
ontime1	1908.9008492231	Sum of GTIs [s]
ontime2	1908.941889286	Sum of GTIs [s]
ontime3	1908.9829292297	Sum of GTIs [s]
l2events	13039	Number of level 2 events



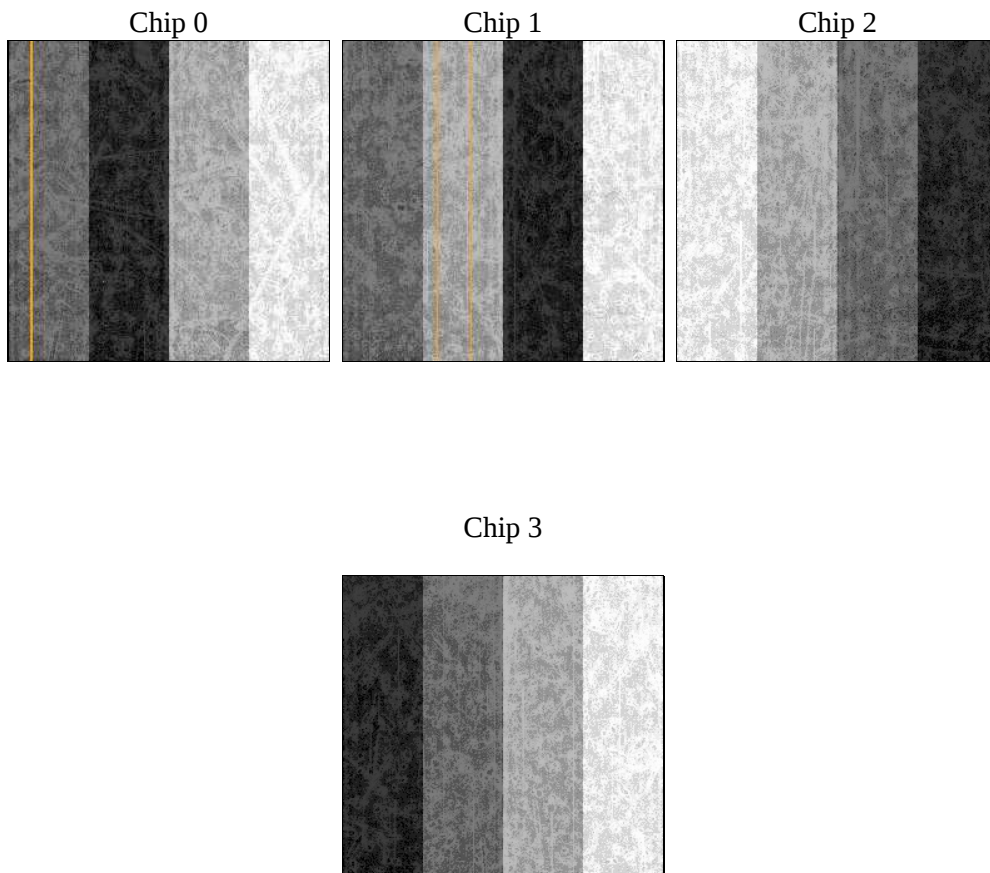
2 OBI

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	1908.9008492231	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	1908.8598092794	Sum of GTIs [s]
date	2019-07-03T21:51:12	Date and time of file creation	ontime1	1908.9008492231	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.941889286	Sum of GTIs [s]
			ontime3	1908.9829292297	Sum of GTIs [s]
			l1events	65406	Number of level 1 events

2.1.4 Events

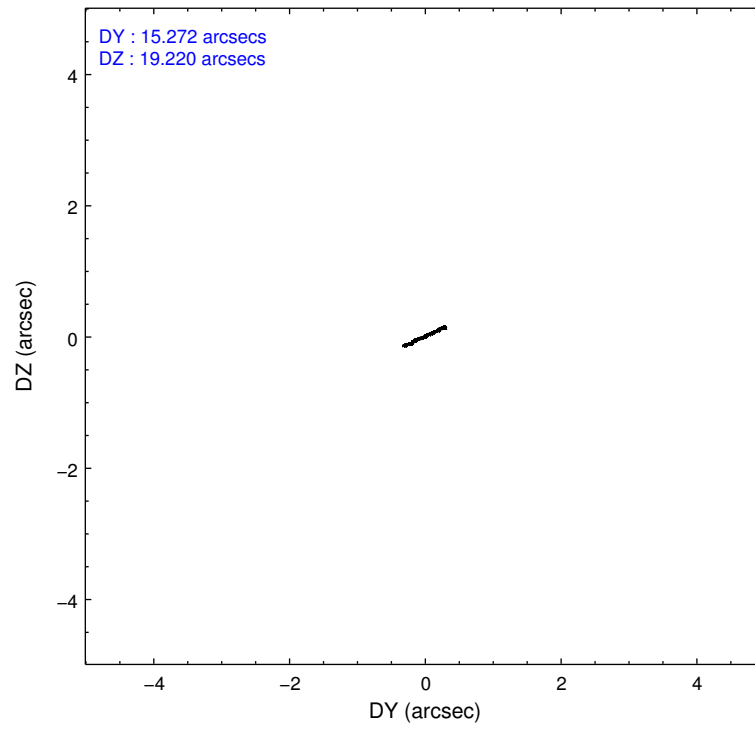
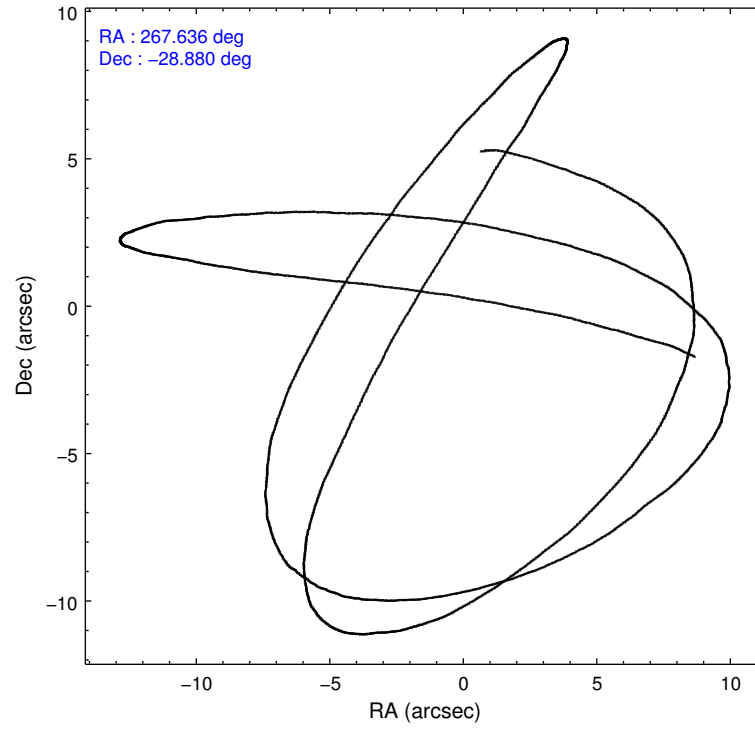
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	20489	15049	15876	13992
rejected events	11841	12508	13438	12323
rejected %	57%	83%	84%	88%

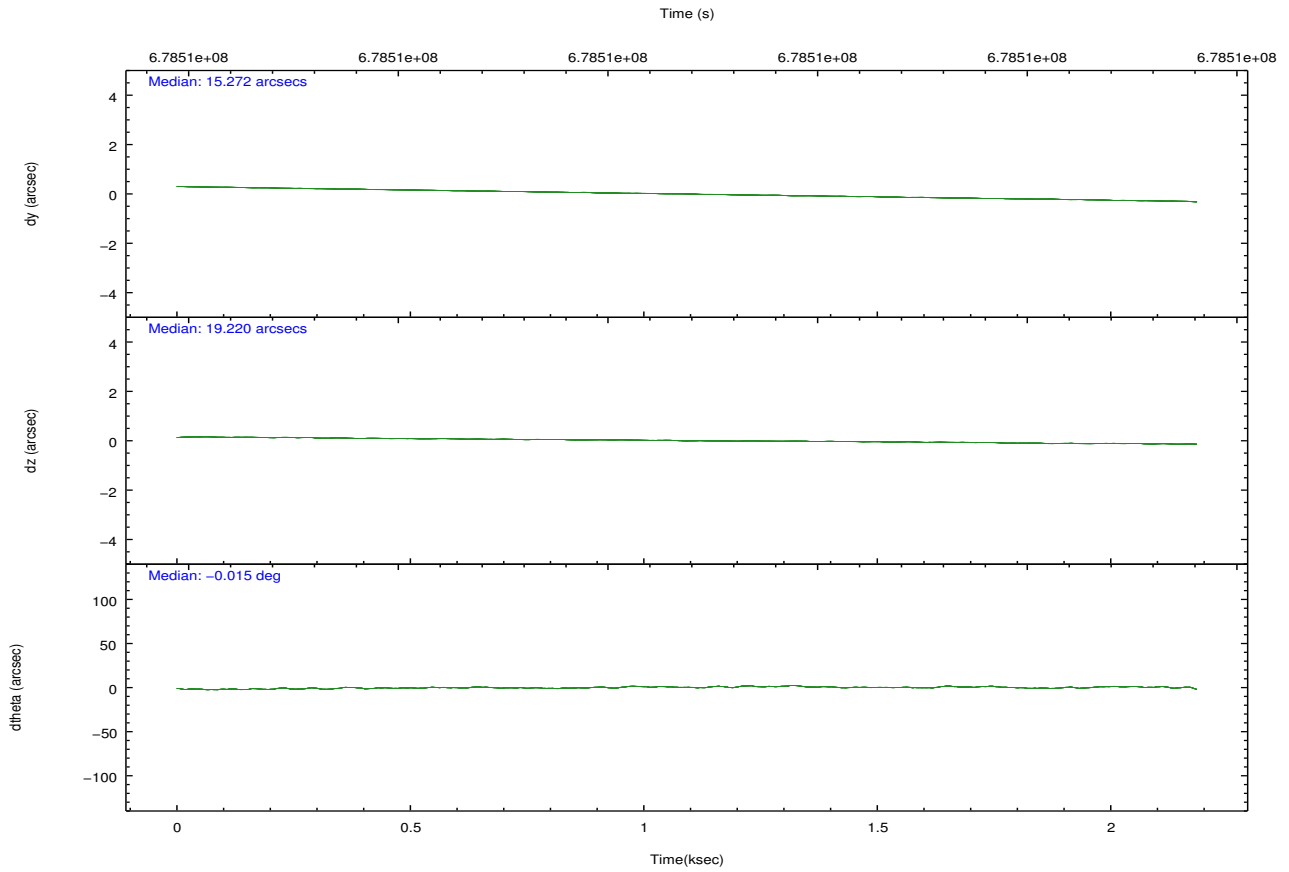
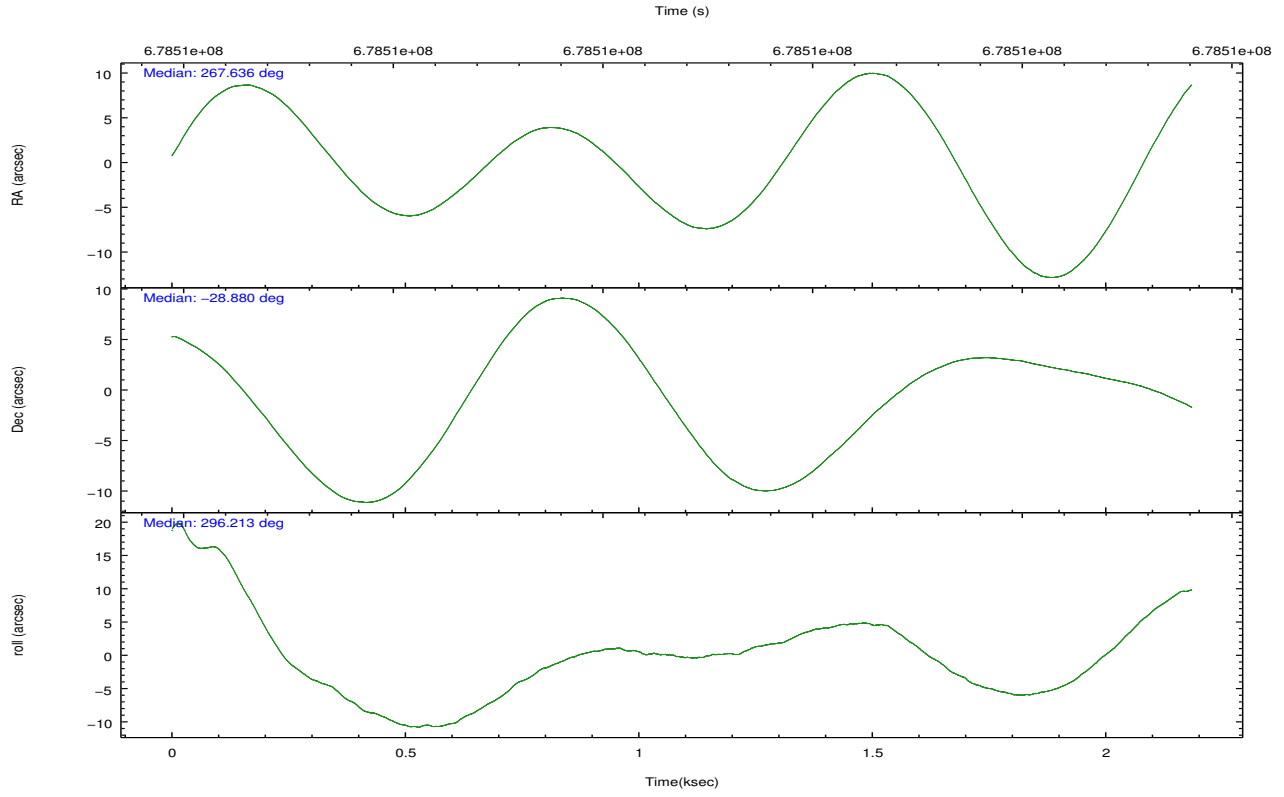
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	5449	1301	1343	669
	26%	8%	8%	4%
grade 1 events	167	14	12	8
	0%	0%	0%	0%
grade 2 events	1339	469	400	364
	6%	3%	2%	2%
grade 3 events	554	180	162	169
	2%	1%	1%	1%
grade 4 events	493	162	200	134
	2%	1%	1%	0%
grade 5 events	700	615	582	691
	3%	4%	3%	4%
grade 6 events	827	433	337	338
	4%	2%	2%	2%
grade 7 events	10960	11875	12840	11619
	53%	78%	80%	83%

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	267.610000	267.6363338888474	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.865192	-28.8804021396208	Alternating exposures requested	N	N
[deg] Pointing Roll	295.993402	296.2148179133358	[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)	678505790.184000	678505414.99628			
Observation start date	2019-07-03T01:48:41	2019-07-03T01:43:34			
[s] Observation end time (MET)	678507790.184000	678507924.19643			
Observation end date	2019-07-03T02:22:01	2019-07-03T02:25:24			
Read mode	TIMED	TIMED			

2.3 Aspect



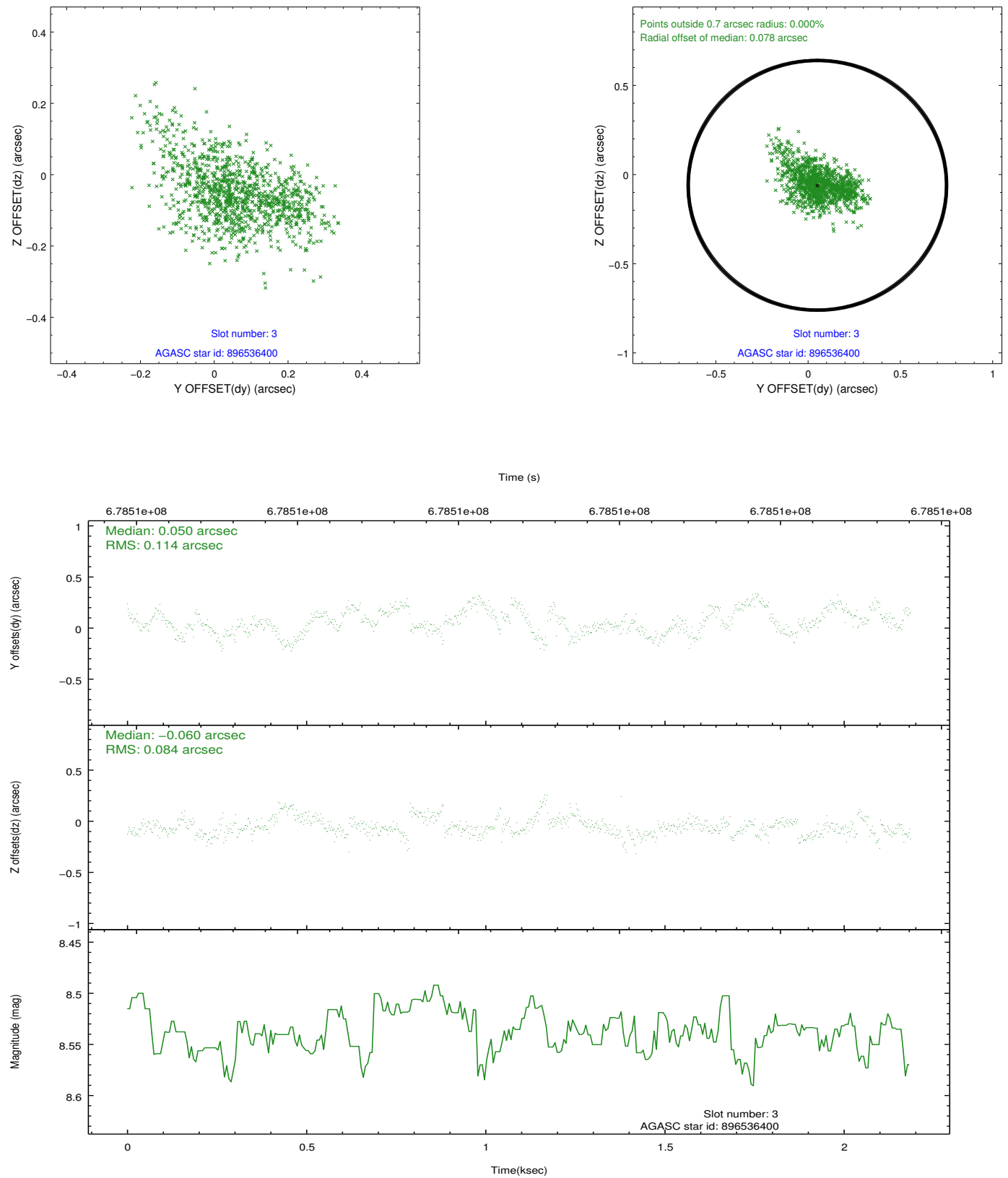


Slot Statistics

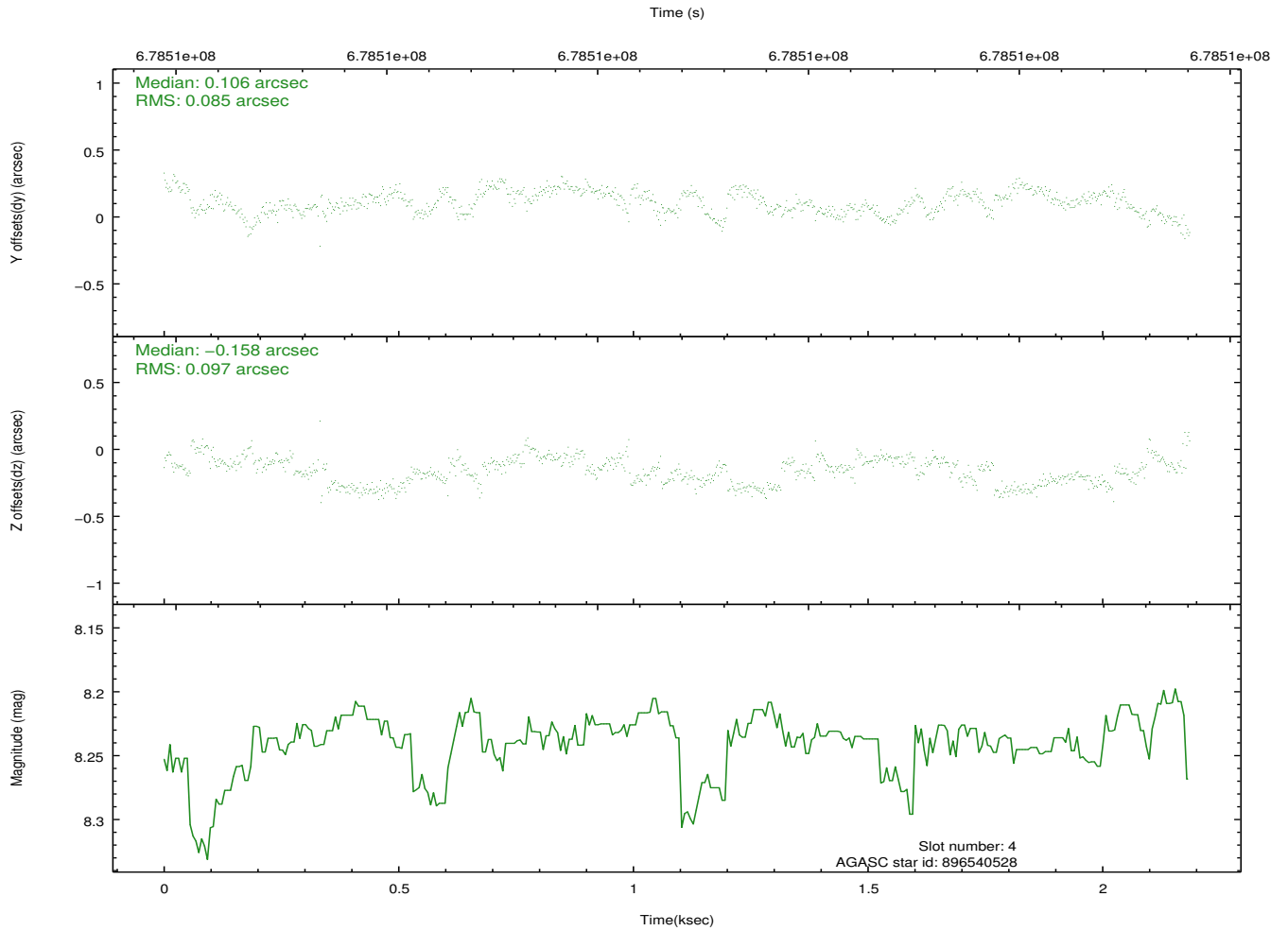
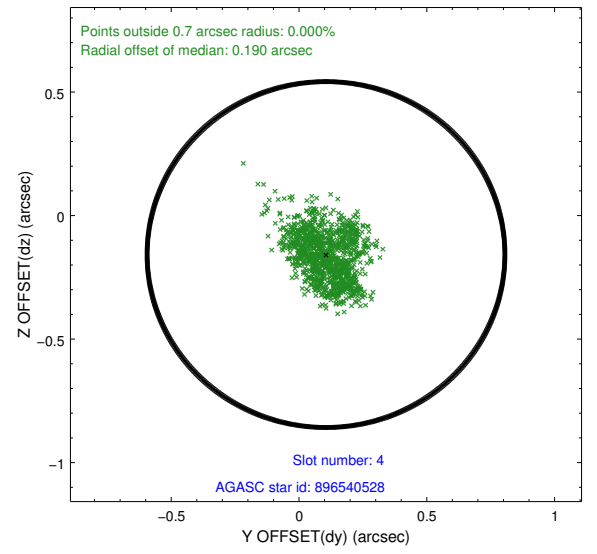
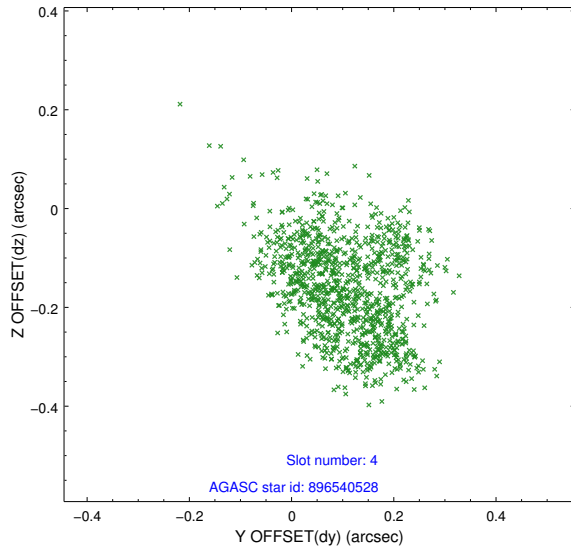
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.12	533	1.000	-0.135	-0.087	0.013	0.021	0.000000	0.000000	-769.93	-849
1	FID		ACIS-I-3	7.44	533	1.000	0.032	0.122	0.011	0.018	0.000000	0.000000	40.41	-977
2	FID		ACIS-I-5	7.20	533	1.000	0.010	0.035	0.008	0.016	0.000000	0.000000	-1824.15	1052
3	GUIDE	used	896536400	8.54	1067	1.000	0.050	-0.060	0.148	0.258	267.359146	-29.438655	1513.15	-1611
4	GUIDE	used	896540528	8.24	1066	1.000	0.106	-0.158	0.140	0.206	267.368305	-29.314773	1125.96	-1392
5	GUIDE	used	896541576	8.18	1067	1.000	0.215	0.284	0.162	0.249	267.051055	-28.762912	-1098.25	-1426
6	GUIDE	used	896543712	8.19	1067	1.000	-0.310	-0.321	0.237	0.326	267.764551	-28.659720	-450.25	761
7	GUIDE	used	896538208	7.93	1065	1.000	-0.052	0.277	0.089	0.151	267.176969	-28.671626	-1223.09	-923

2.4 Star Slots

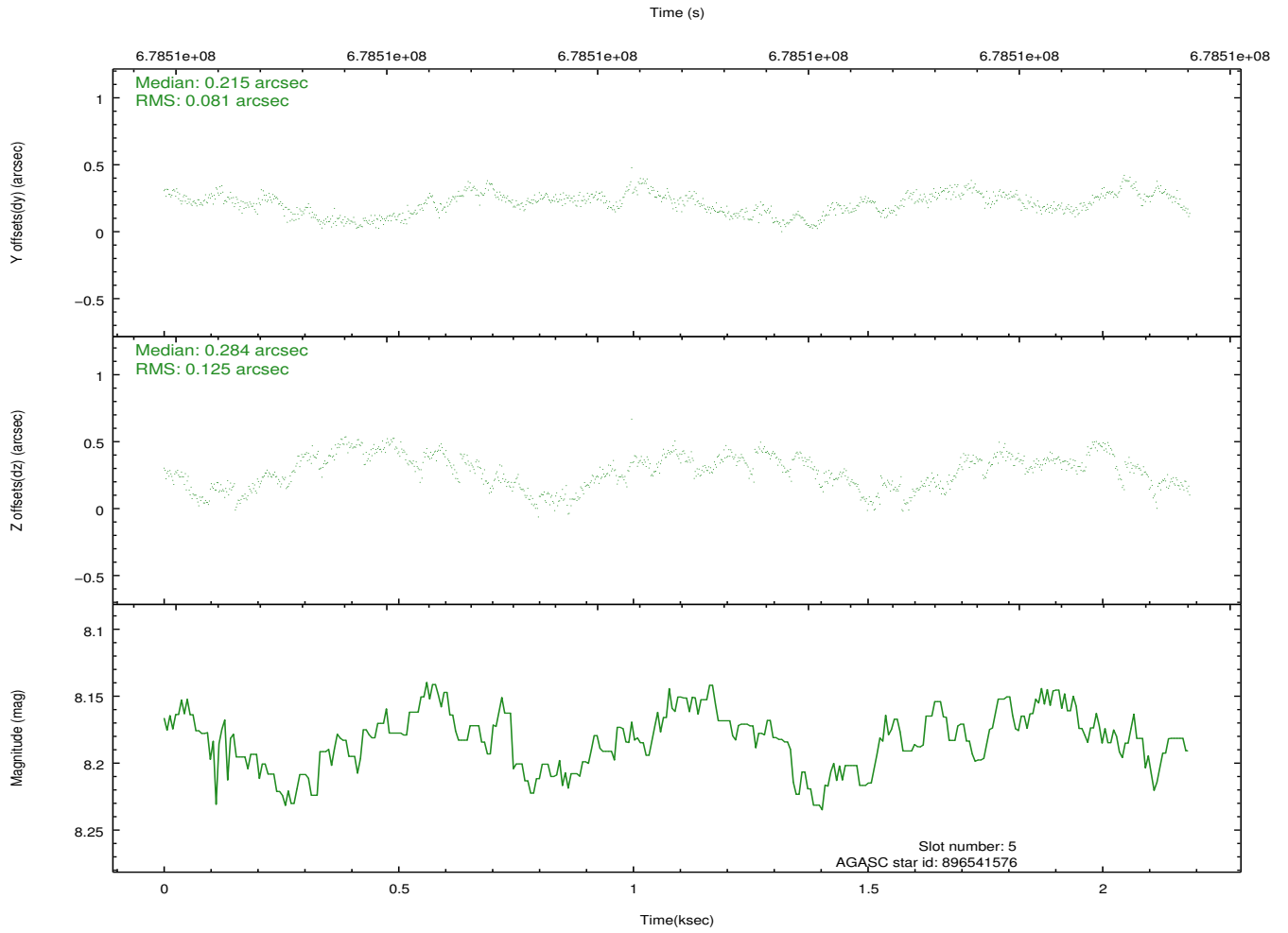
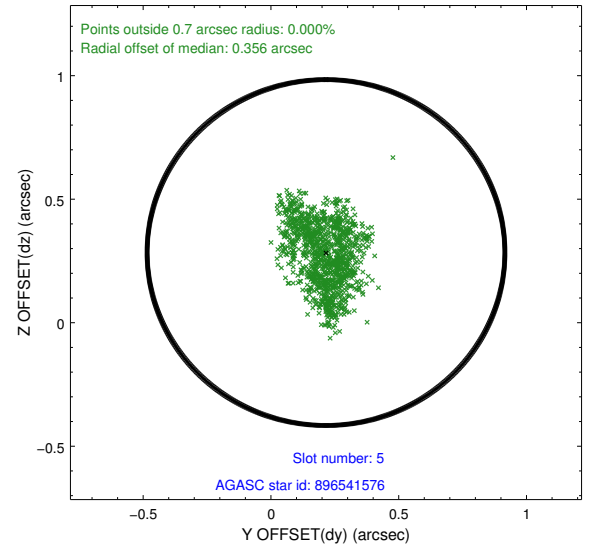
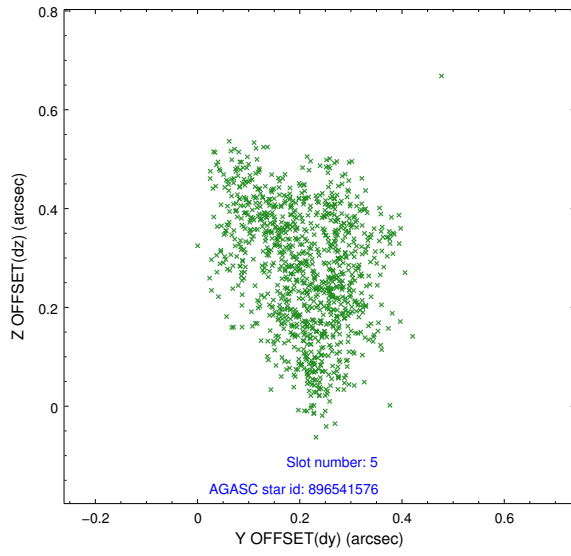
2.4.1 Slot 3



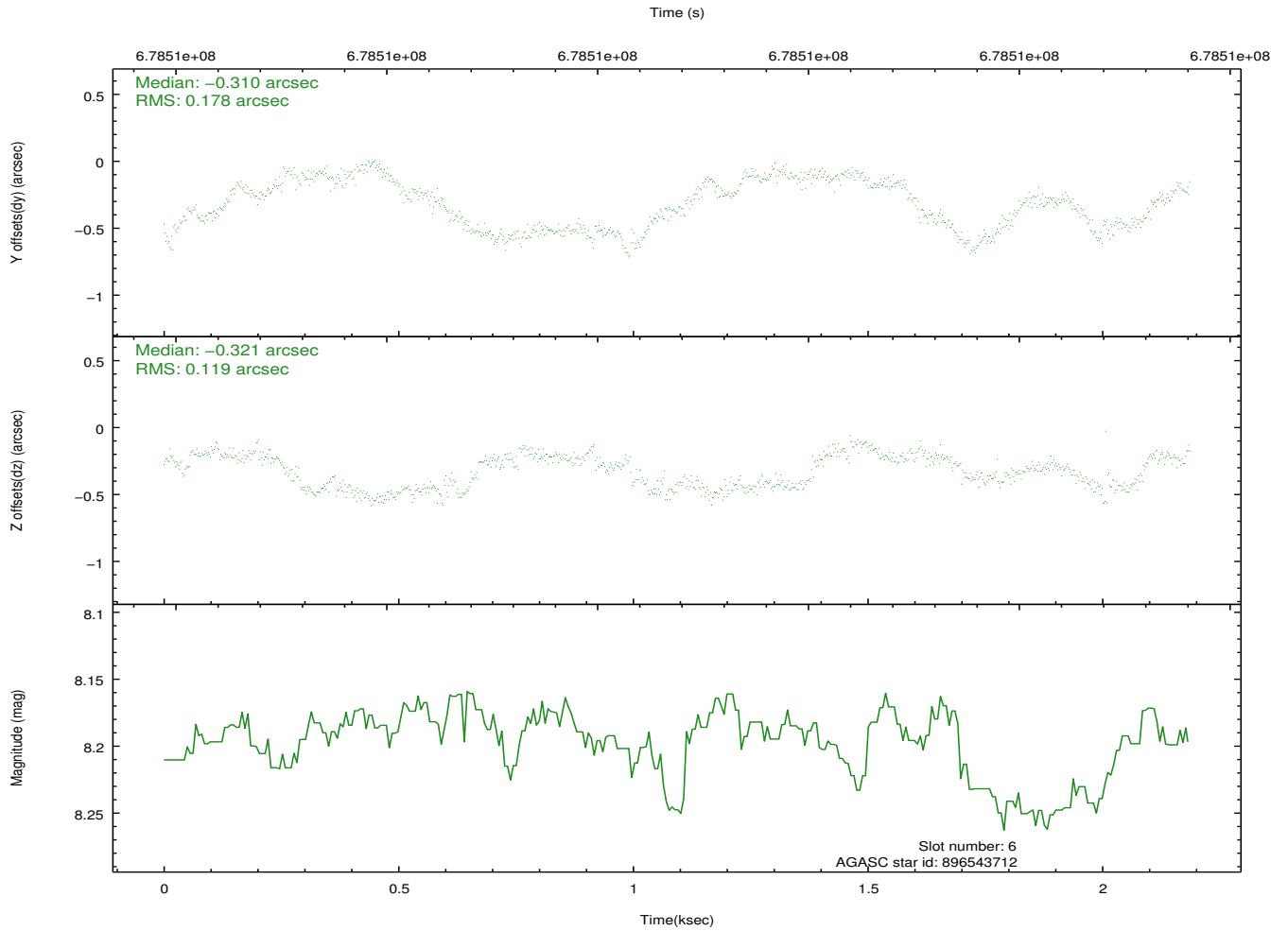
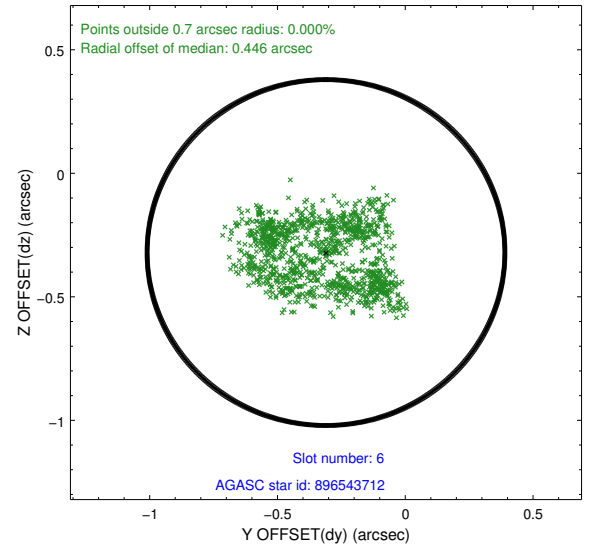
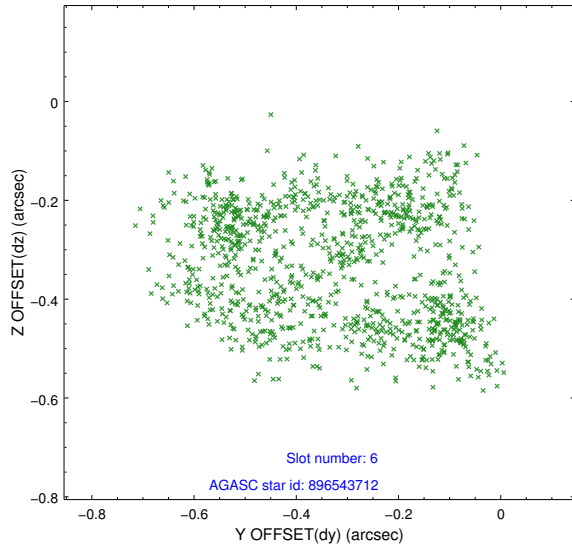
2.4.2 Slot 4



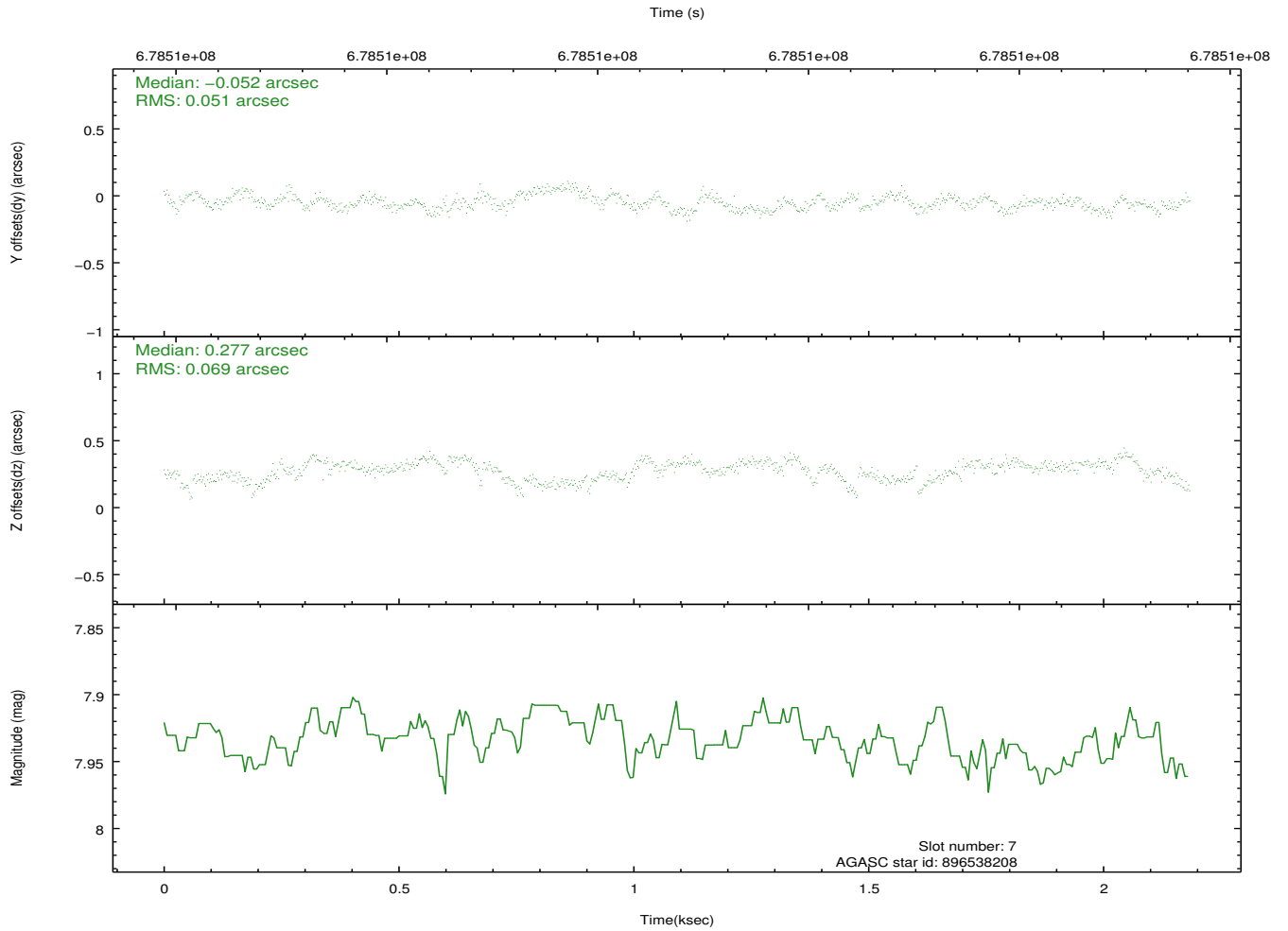
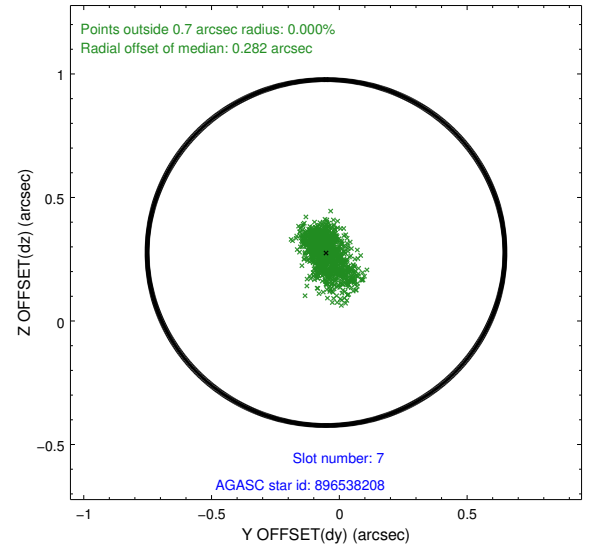
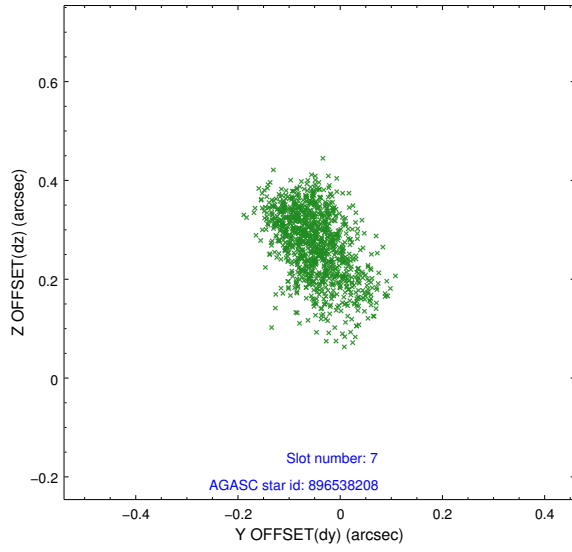
2.4.3 Slot 5



2.4.4 Slot 6

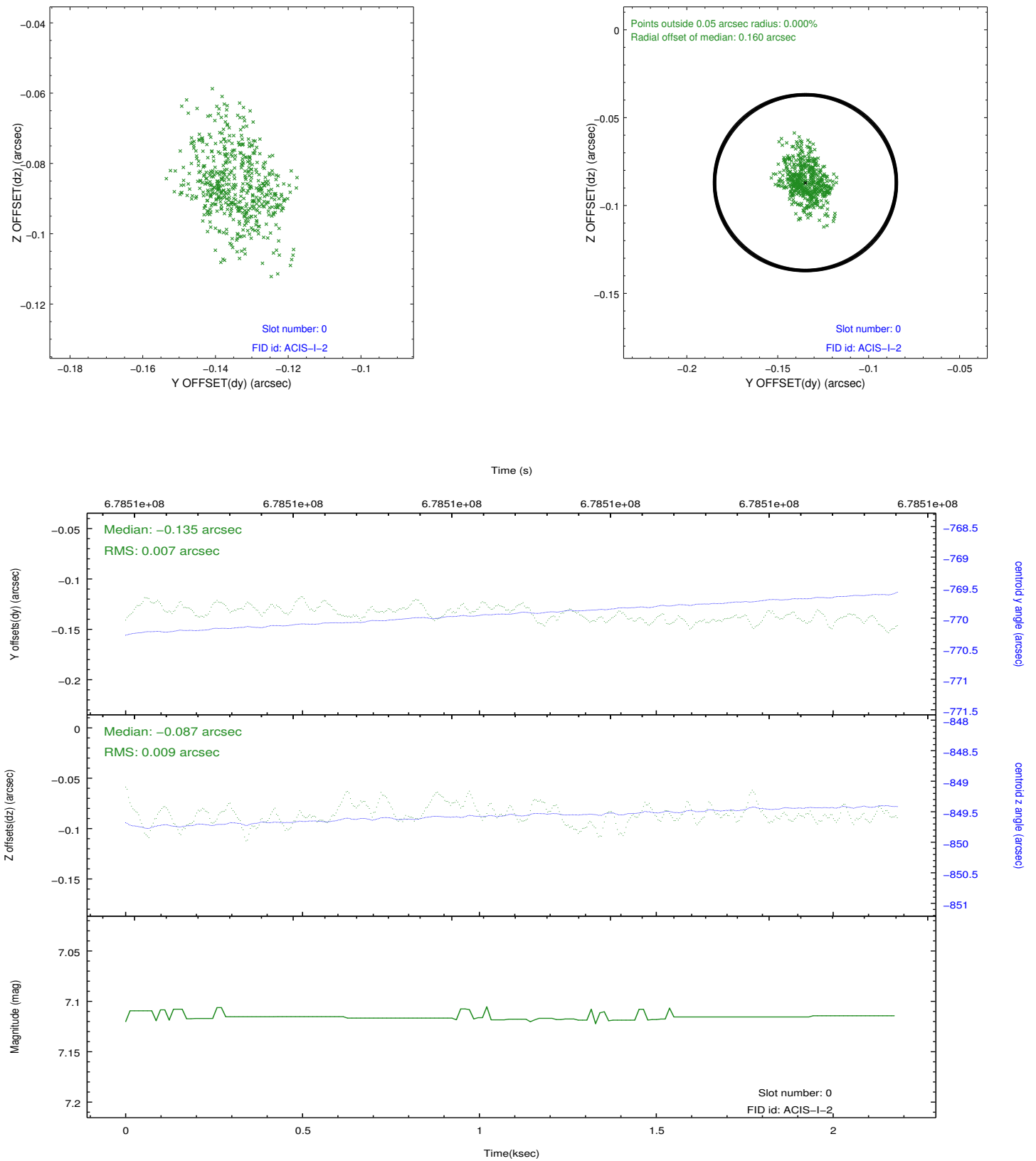


2.4.5 Slot 7

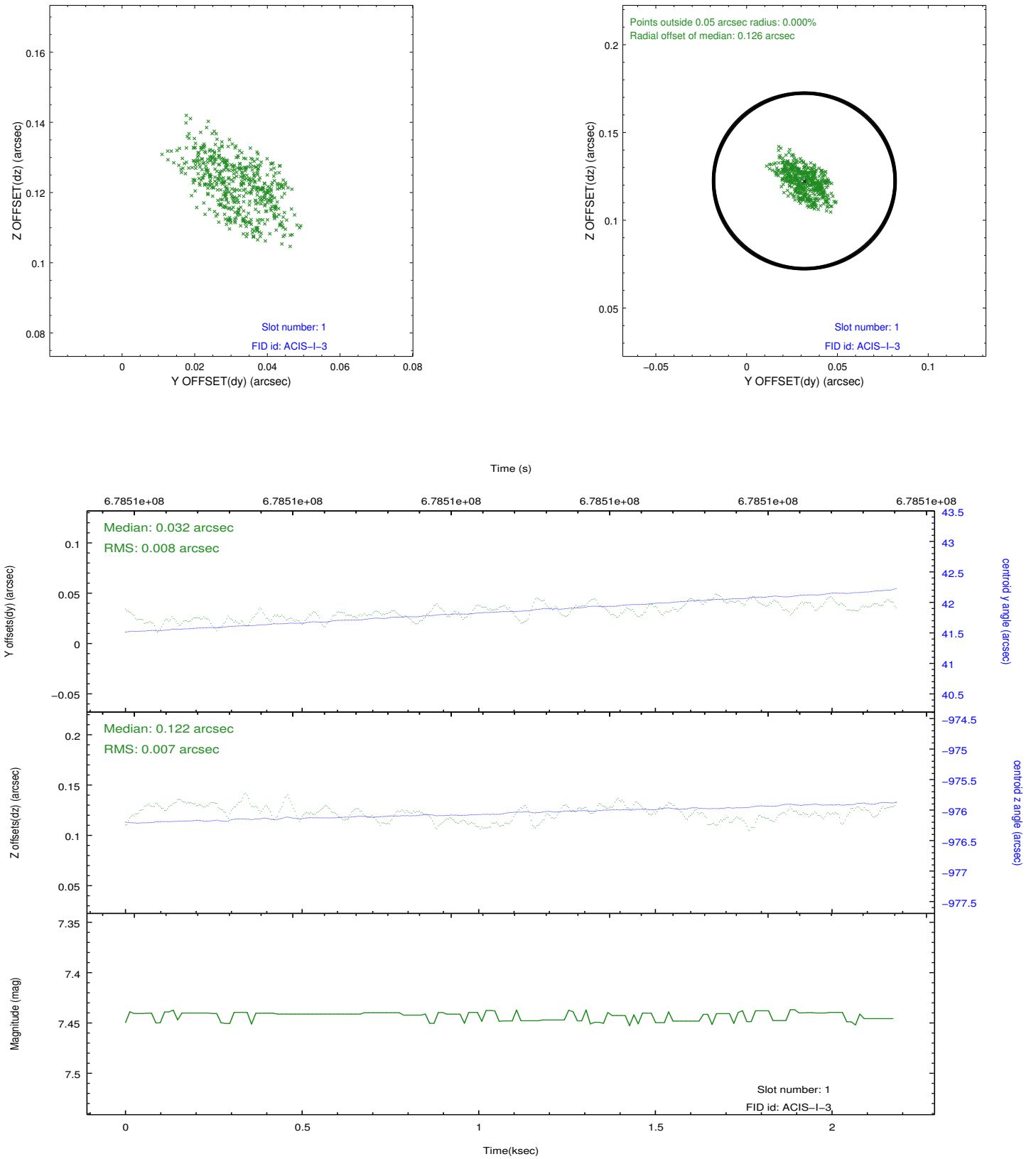


2.5 FID Slots

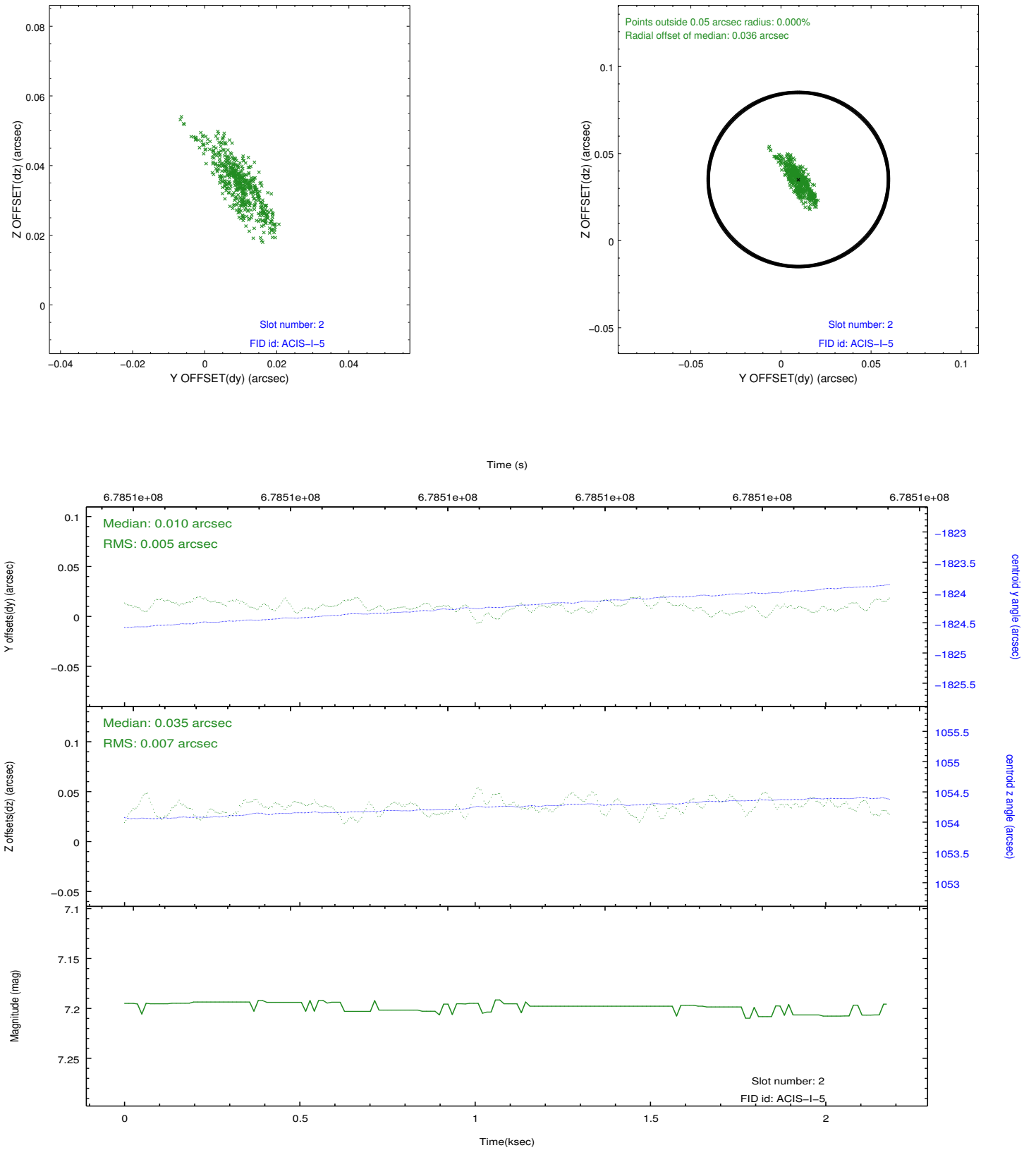
2.5.1 Slot 0



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)	2019.07.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9089008492231

A.2 Comments