

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21225 - L2 Version 1
Chandra X-Ray Center

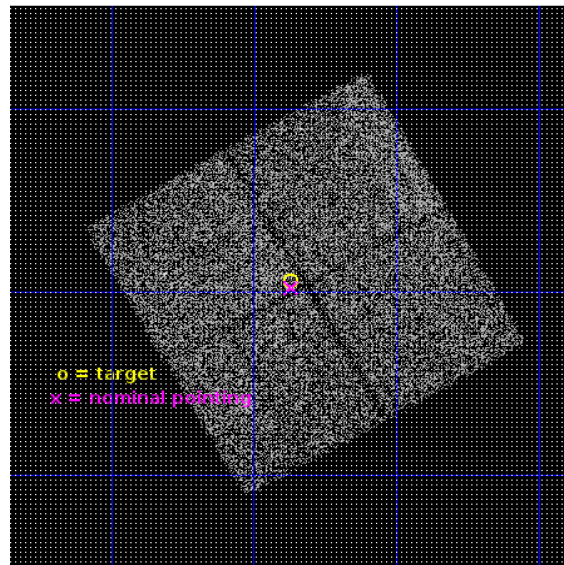
L2 Processing Date : Aug 15 2019

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1 Front

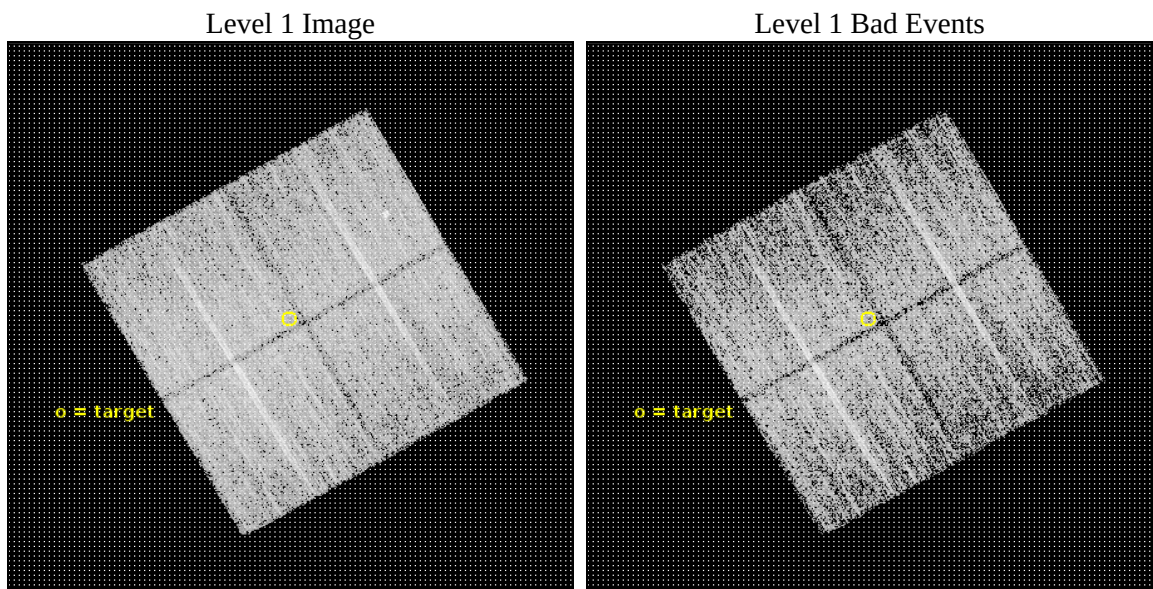
seq_num	402058	Sequence number
obs_id	21225	Observation id
title	Resolving the terminal shock driven by the jet from a microquasar SS433 at the eastern ear of W50	Proposal title
observer	Shinya Yamada	Principal investigator
object	SS433-W50 (eastern ear)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	288.967083	Observer's specified target RA [deg]
dec_targ	4.843111	Observer's specified target Dec [deg]
ra_nom	288.96706835488	Nominal RA [deg]
dec_nom	4.8371577915694	Nominal Dec [deg]
roll_nom	240.20867942626	Nominal Roll [deg]
revision	1	Processing version of data
ontime	11540.600692868	Sum of GTIs [s]
livetime	11389.814248749	Livetime [s]
ontime0	11543.618553162	Sum of GTIs [s]
ontime1	11543.659593105	Sum of GTIs [s]
ontime2	11543.700633168	Sum of GTIs [s]
ontime3	11540.600692868	Sum of GTIs [s]
l2events	35315	Number of level 2 events



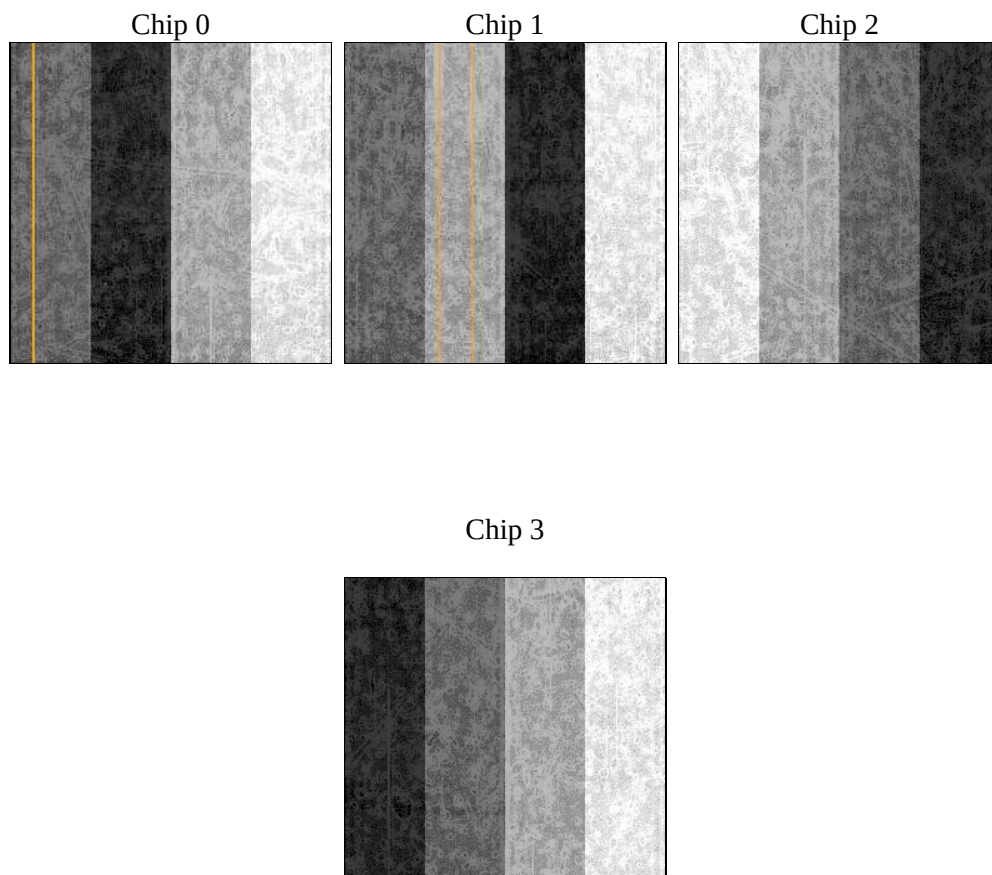
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	11462.810000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	11540.600692868	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	11543.618553162	Sum of GTIs [s]
date	2019-08-15T15:45:35	Date and time of file creation	ontime1	11543.659593105	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	11543.700633168	Sum of GTIs [s]
			ontime3	11540.600692868	Sum of GTIs [s]
			l1events	331845	Number of level 1 events

2.1.4 Events

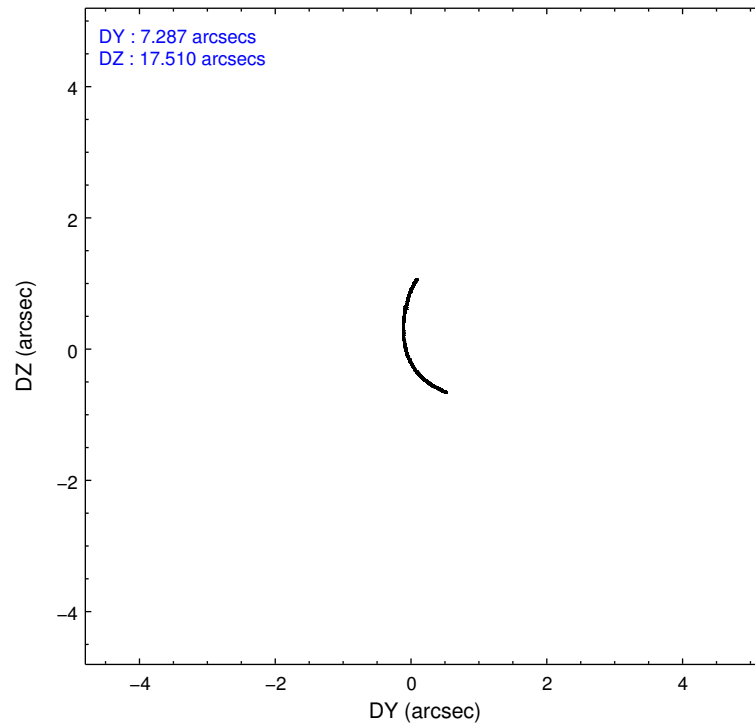
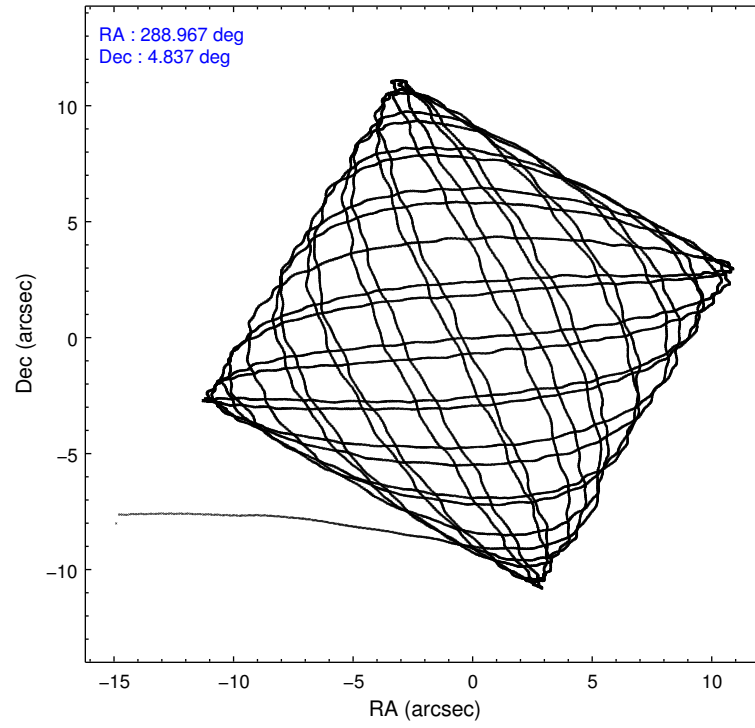
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	77345	81742	87290	85468
rejected events	66667	69929	77128	75680
rejected %	86%	85%	88%	88%

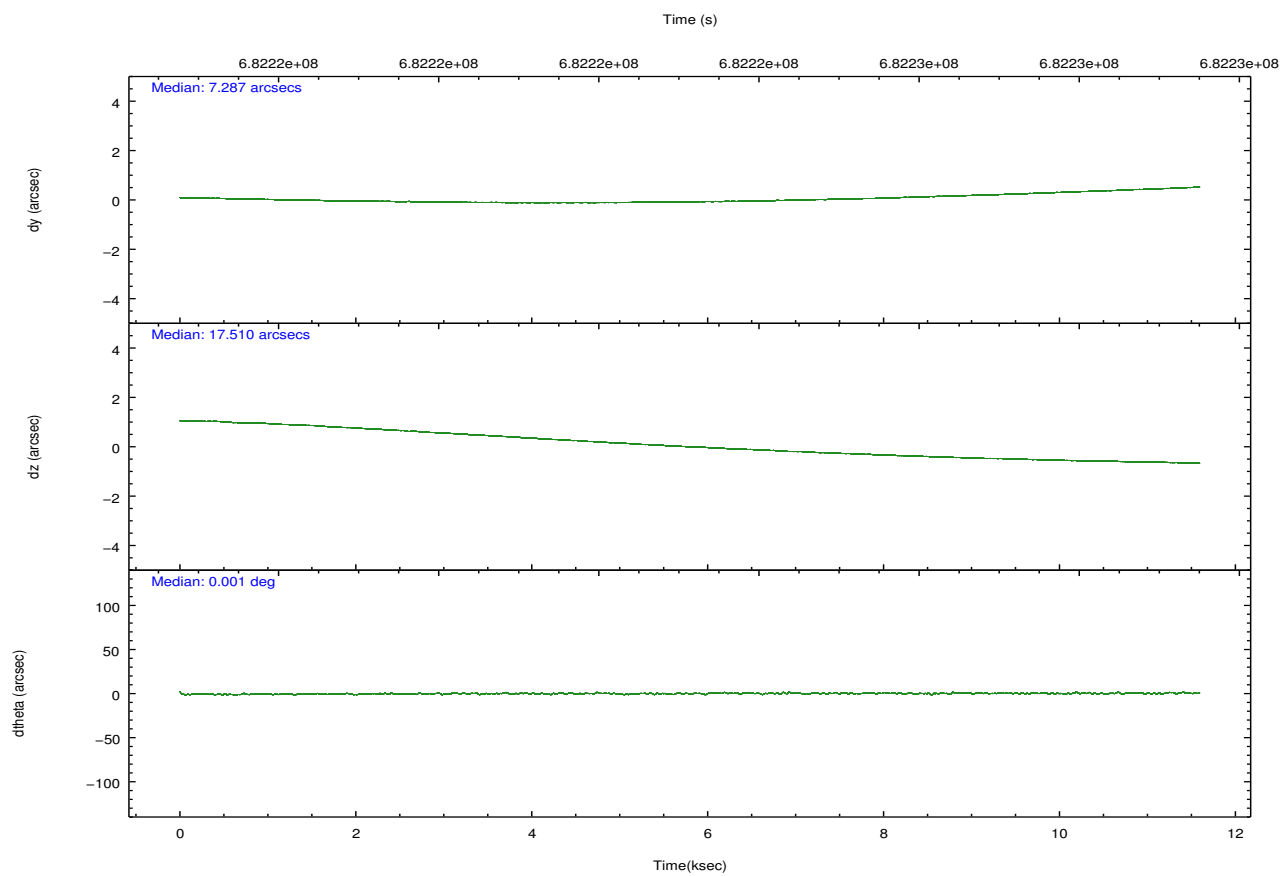
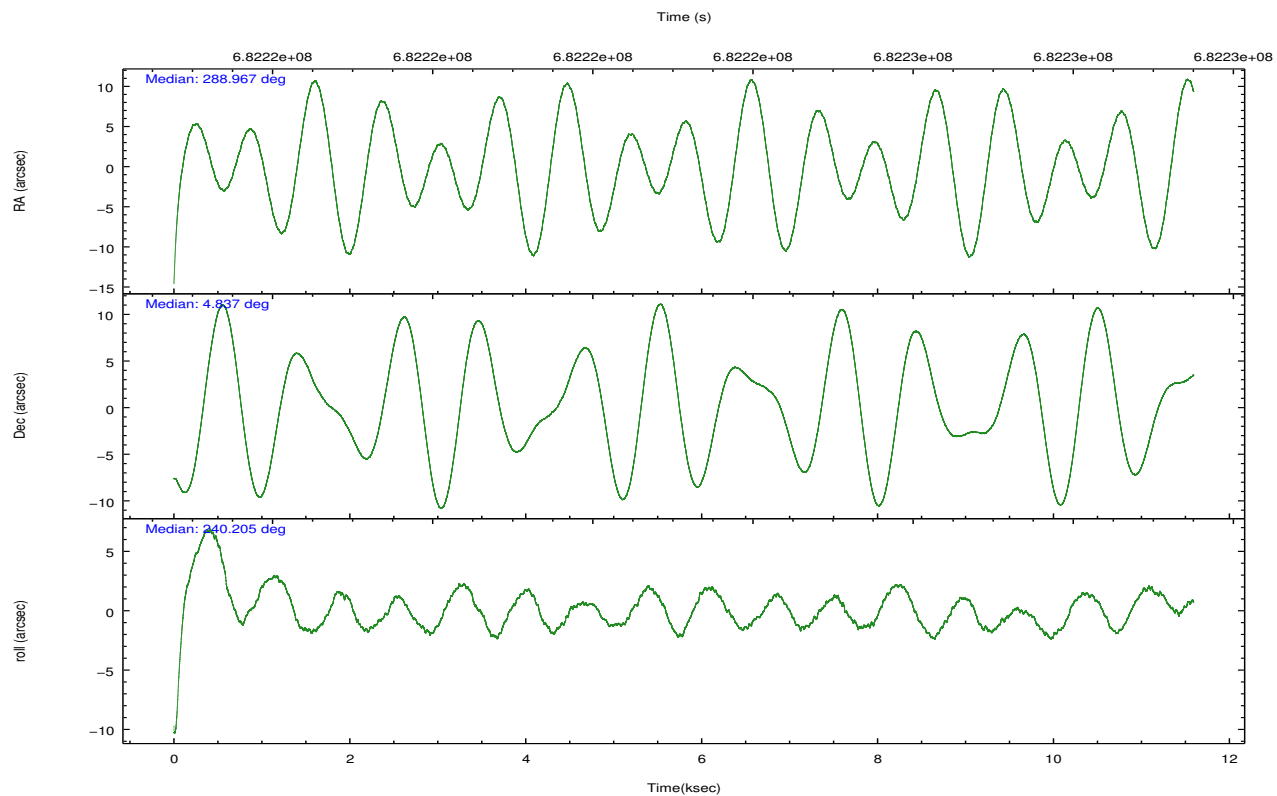
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	3744	4346	3654	3718
	4%	5%	4%	4%
grade 1 events	40	62	66	57
	0%	0%	0%	0%
grade 2 events	2644	2945	2507	2099
	3%	3%	2%	2%
grade 3 events	1071	982	1053	1002
	1%	1%	1%	1%
grade 4 events	992	1028	944	978
	1%	1%	1%	1%
grade 5 events	3905	4085	3778	4254
	5%	4%	4%	4%
grade 6 events	2230	2516	2007	1995
	2%	3%	2%	2%
grade 7 events	62719	65778	73281	71365
	81%	80%	83%	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	288.966836	288.9670683548753	Subarray requested	NONE	NONE
[deg] Pointing Dec	4.864784	4.837157791569449	Alternating exposures requested	N	N
[deg] Pointing Roll	240.000019	240.2086794262565	[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)	682217468.184000	682216213.49423			
Observation start date	2019-08-15T00:49:59	2019-08-15T00:30:13			
[s] Observation end time (MET)	682228931.184000	682229457.00753			
Observation end date	2019-08-15T04:01:02	2019-08-15T04:10:57			
Read mode	TIMED	TIMED			

2.3 Aspect



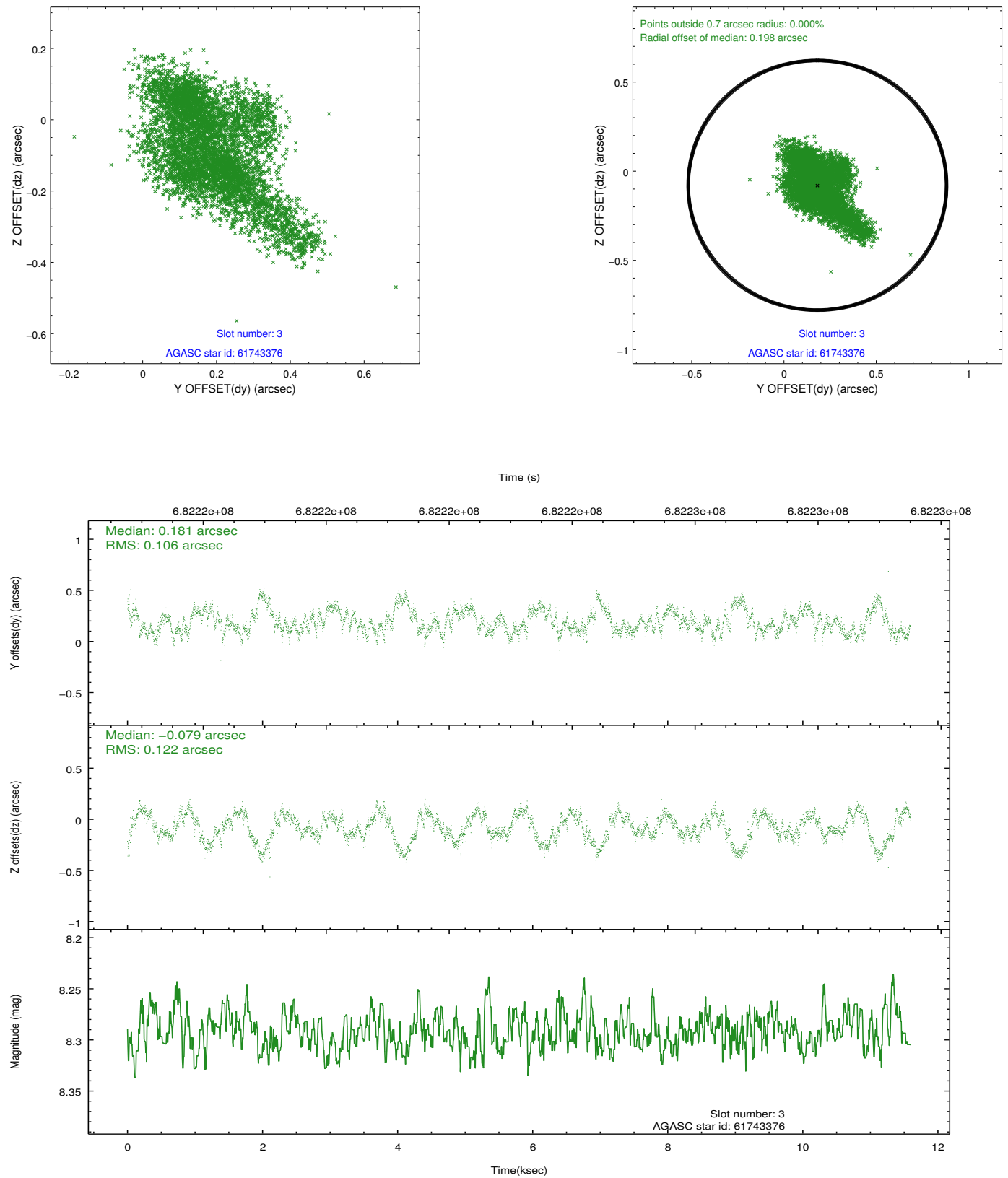


Slot Statistics

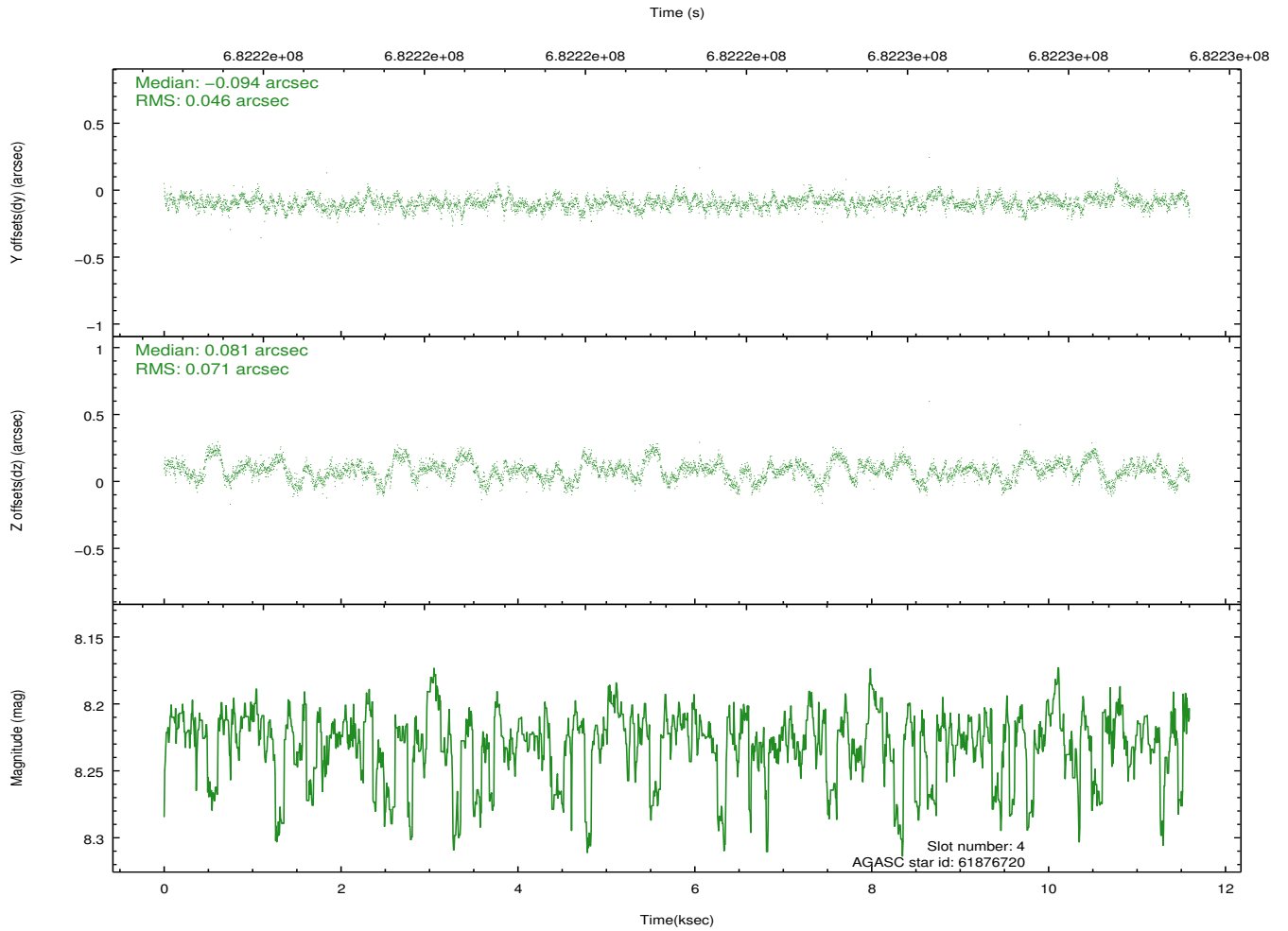
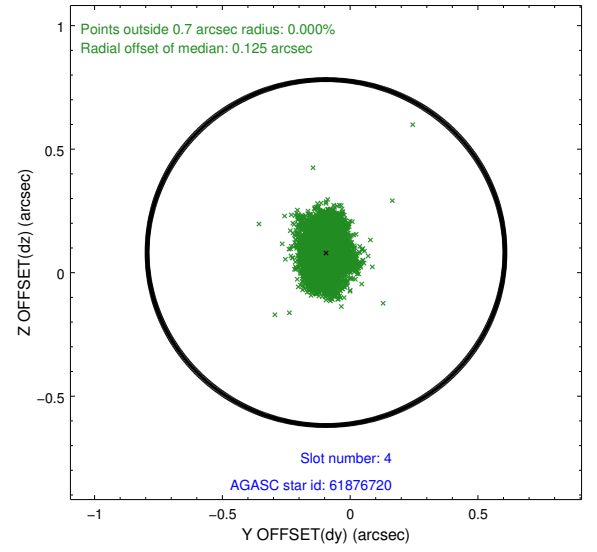
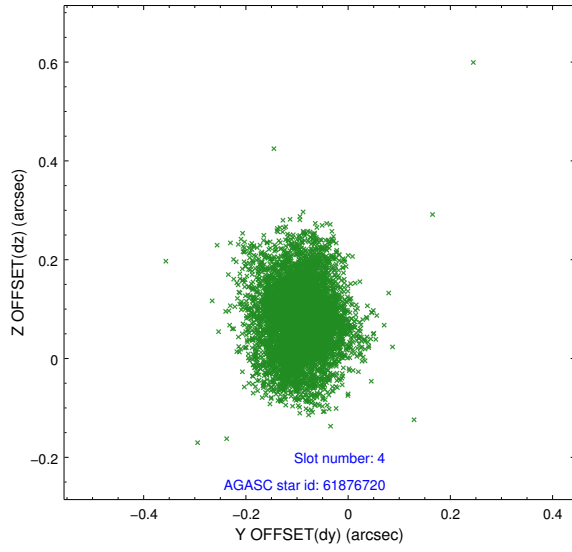
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.13	2828	1.000	0.131	-0.100	0.034	0.046	0.000000	0.000000	932.41	-841
1	FID		ACIS-I-3	7.33	2828	1.000	-0.142	0.135	0.030	0.039	0.000000	0.000000	49.87	-974
2	FID		ACIS-I-6	7.09	2828	1.000	-0.078	0.032	0.066	0.078	0.000000	0.000000	398.05	1700
3	GUIDE	used	61743376	8.29	5650	1.000	0.181	-0.079	0.163	0.302	288.690993	4.620047	1258.42	-416
4	GUIDE	used	61876720	8.23	5656	1.000	-0.094	0.081	0.088	0.149	289.011366	5.192818	-1101.95	-452
5	GUIDE	used	61884904	7.31	5657	1.000	-0.266	-0.052	0.097	0.164	289.597127	5.131045	-1962.27	1478
6	GUIDE	used	61744976	7.57	5656	1.000	0.186	0.328	0.098	0.158	288.430364	5.306675	-416.54	-2460
7	GUIDE	used	61746744	8.53	5654	1.000	-0.019	-0.271	0.132	0.197	288.662479	4.255976	2444.63	149

2.4 Star Slots

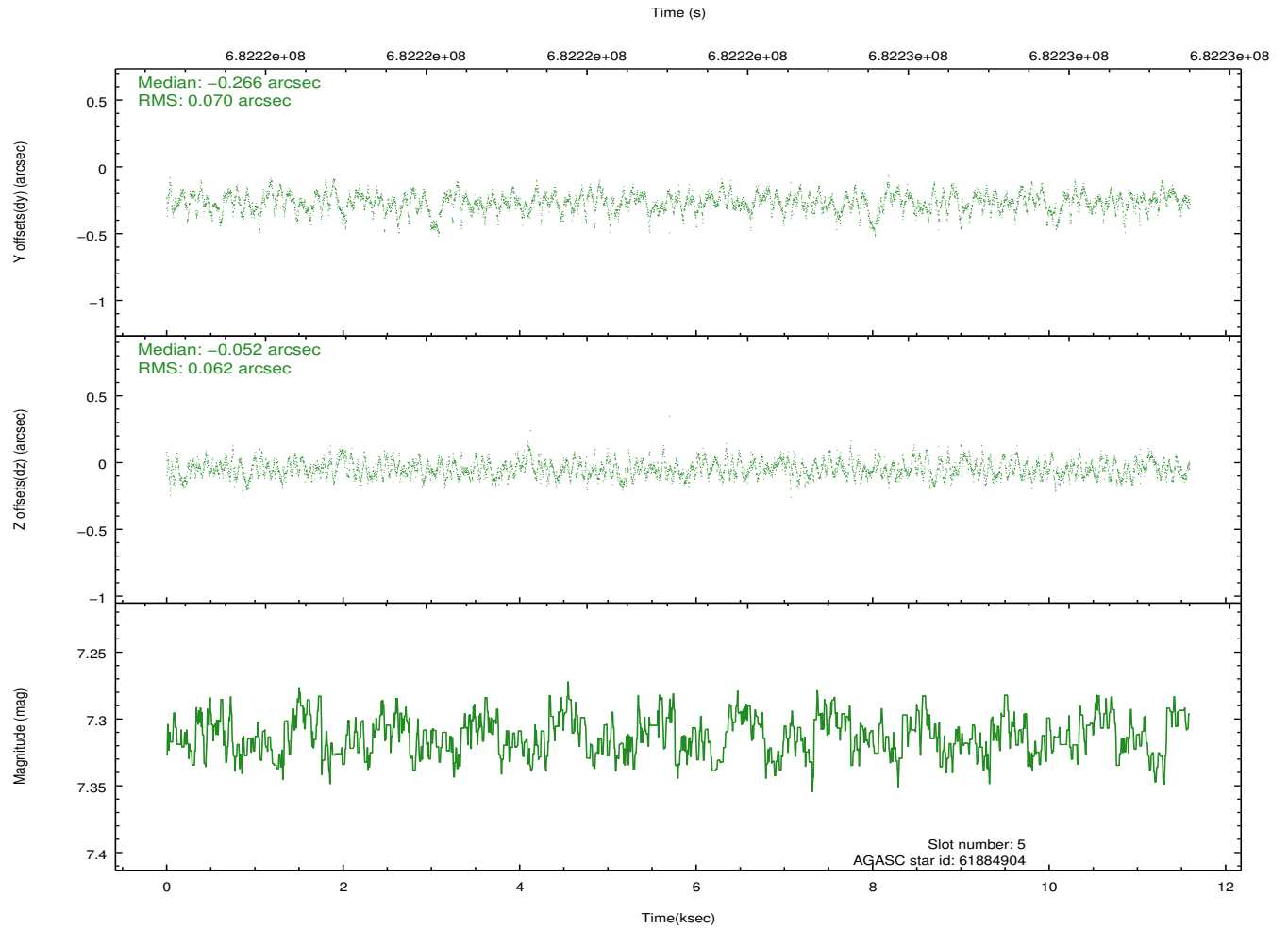
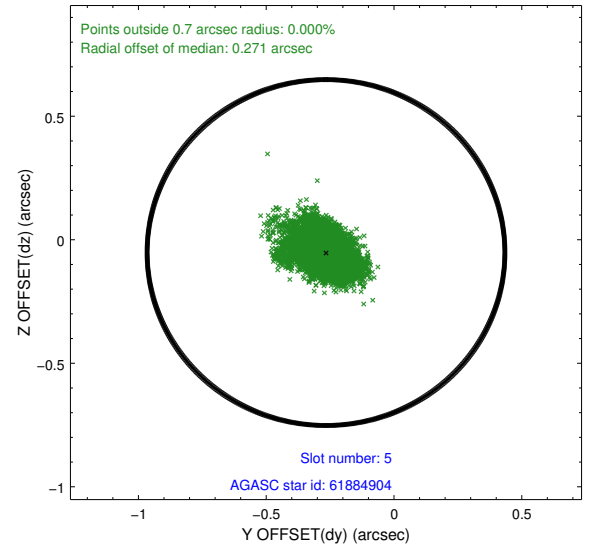
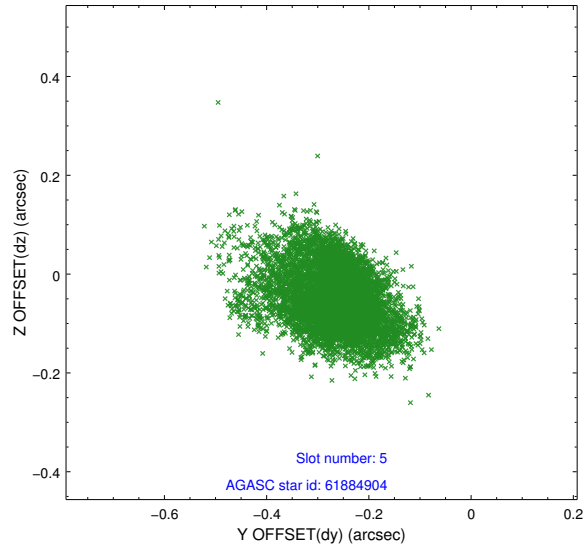
2.4.1 Slot 3



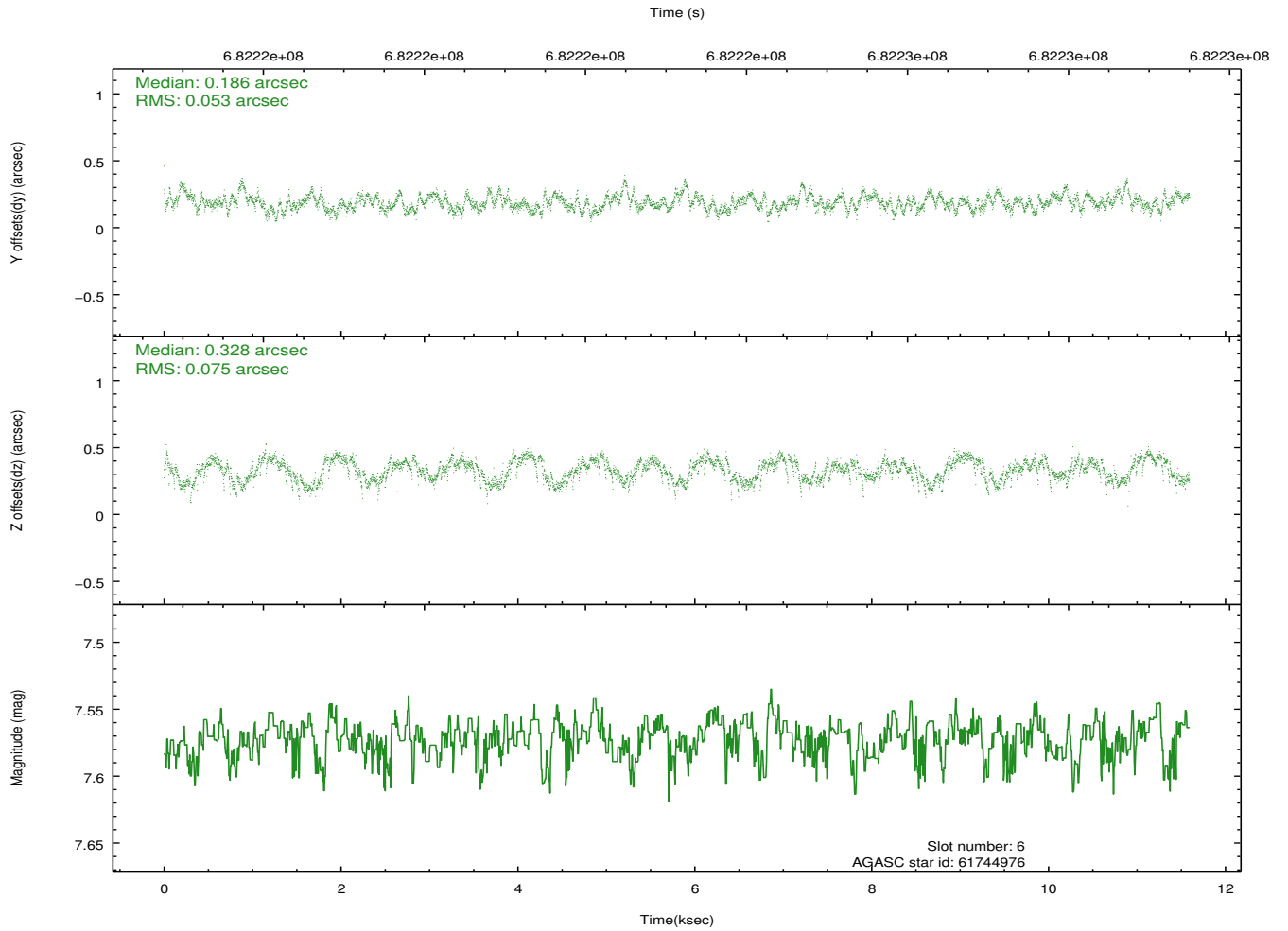
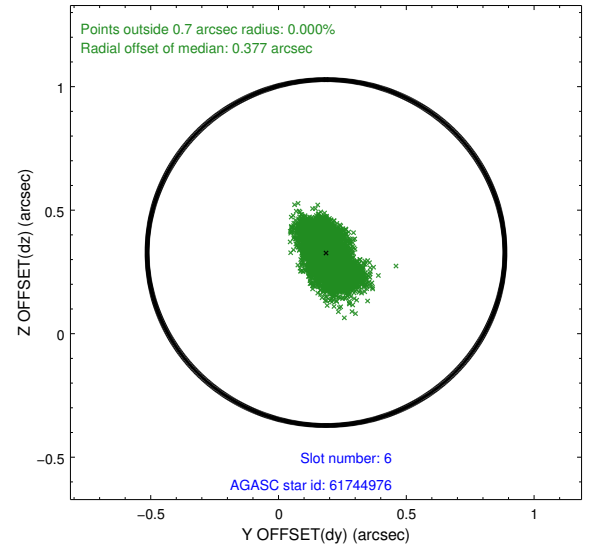
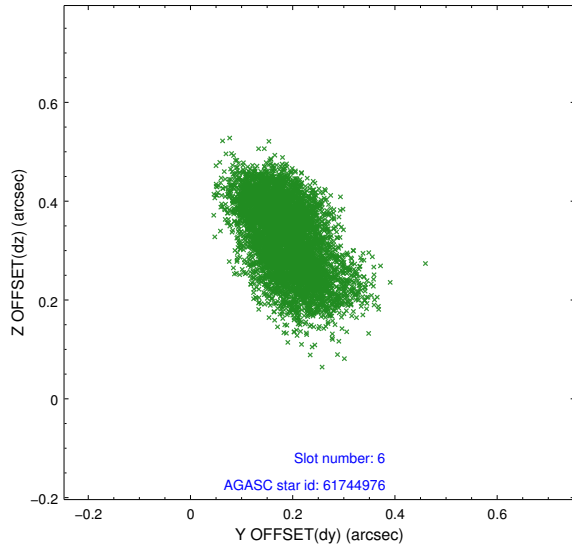
2.4.2 Slot 4



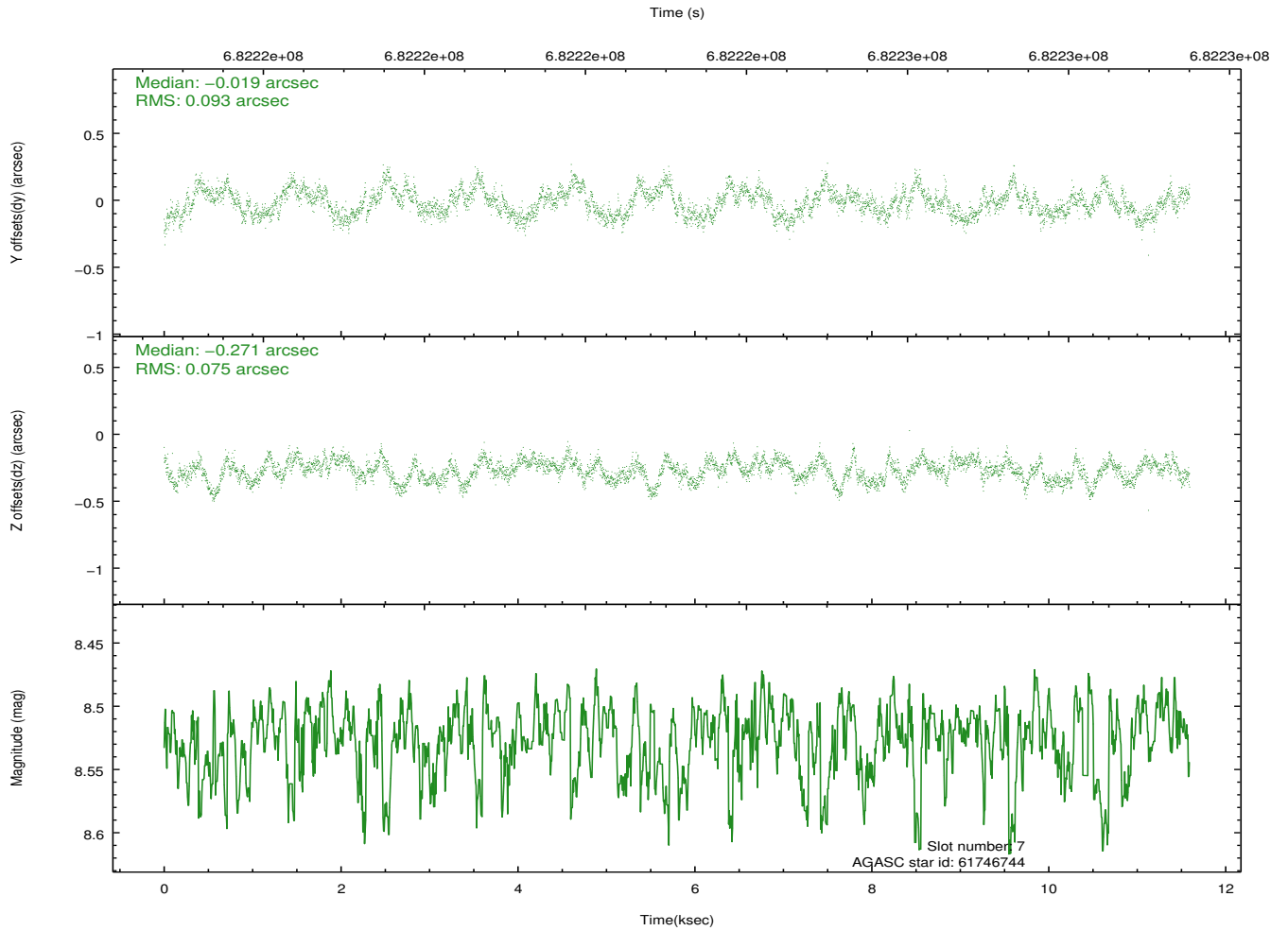
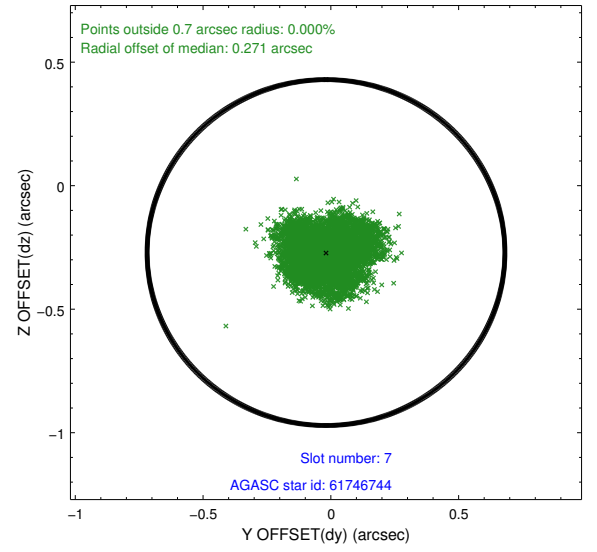
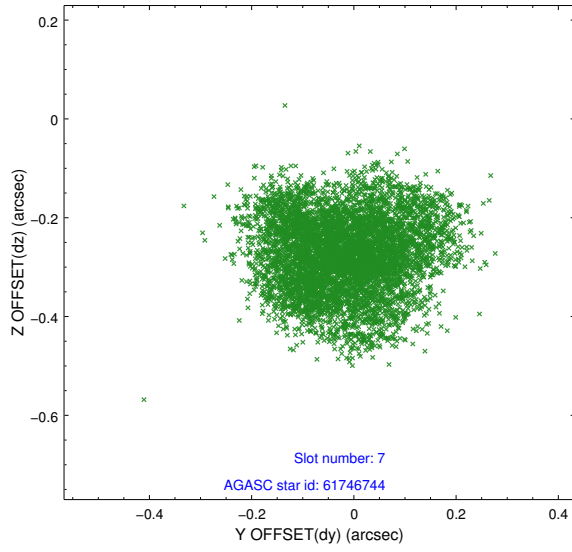
2.4.3 Slot 5



2.4.4 Slot 6

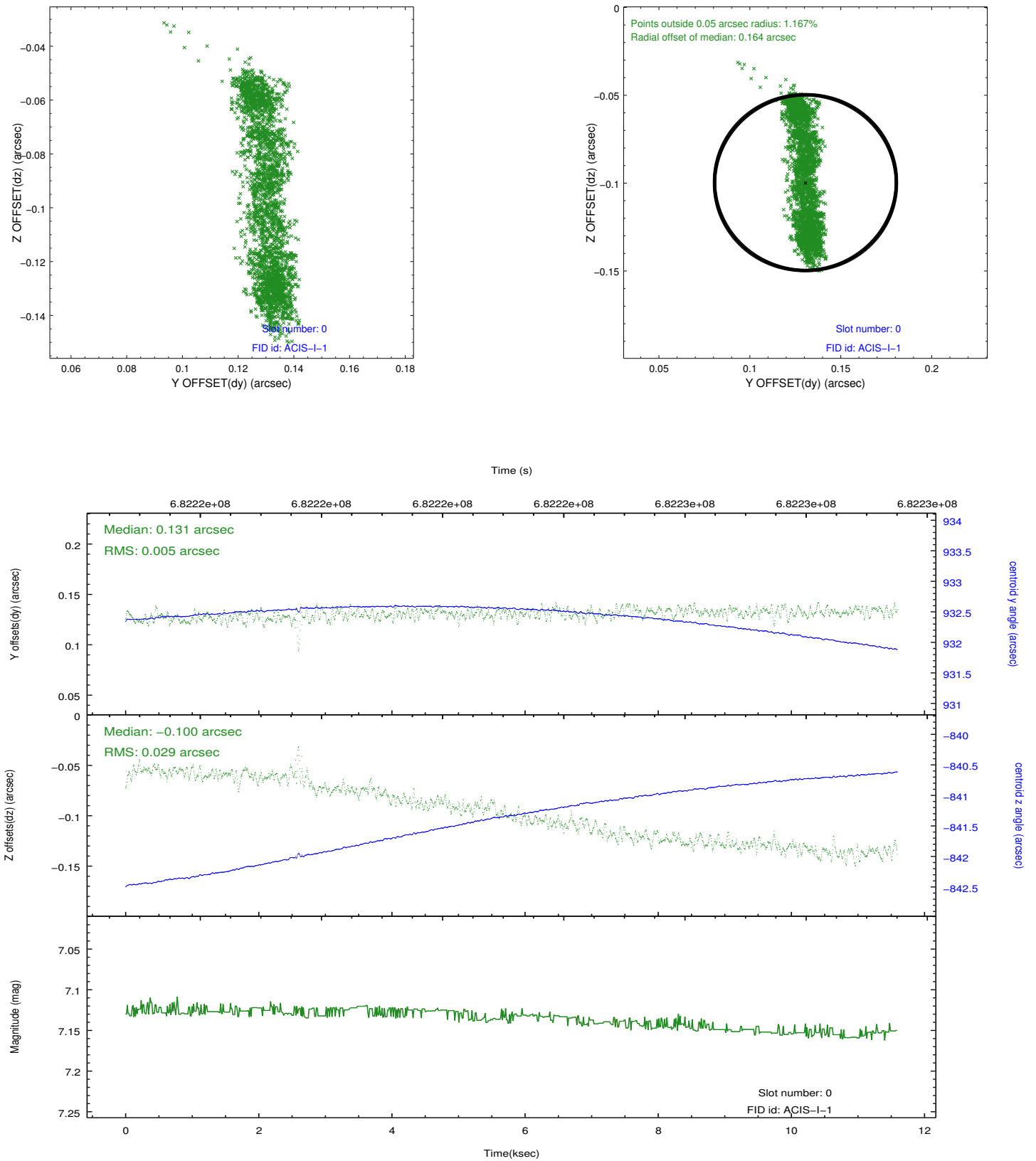


2.4.5 Slot 7

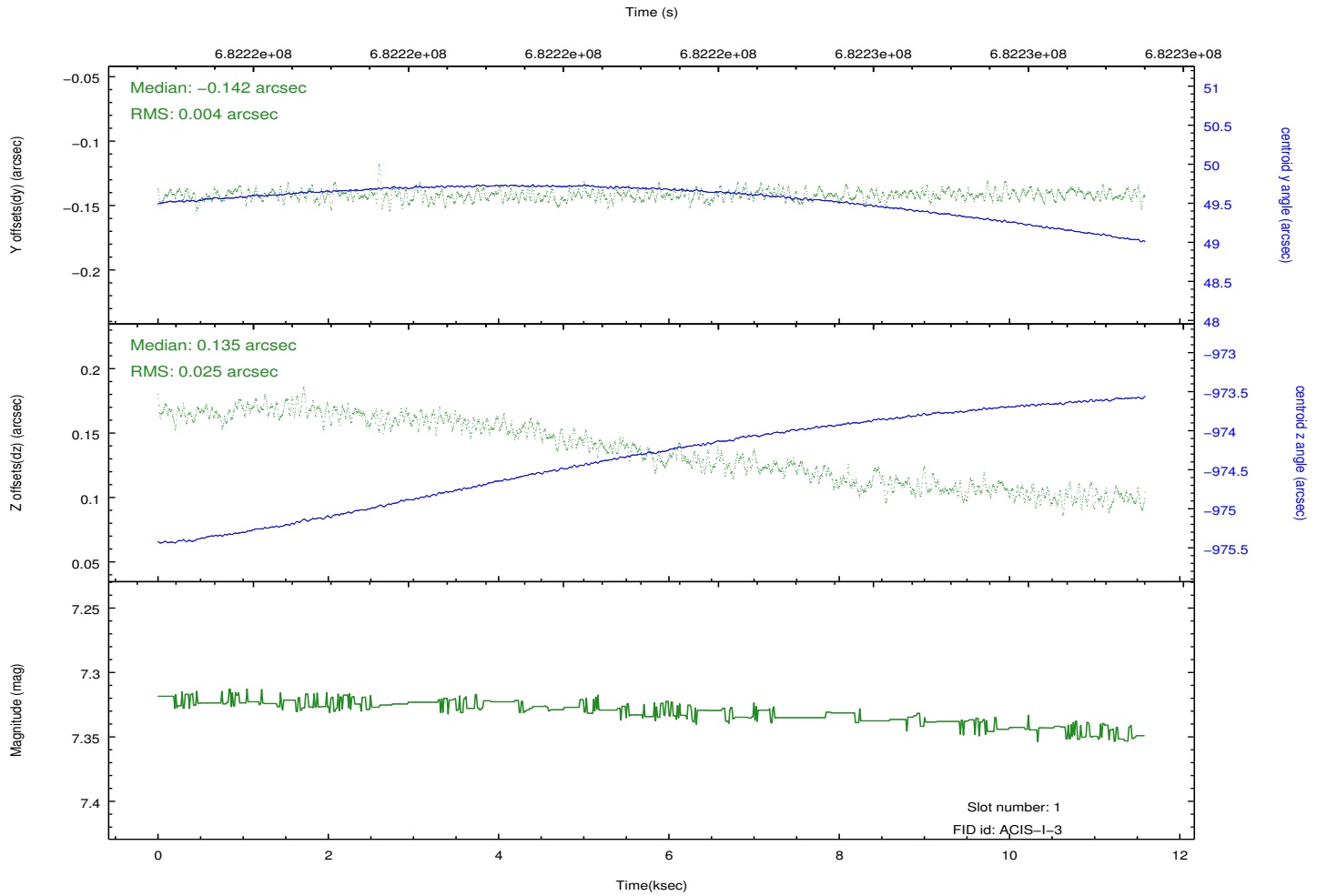
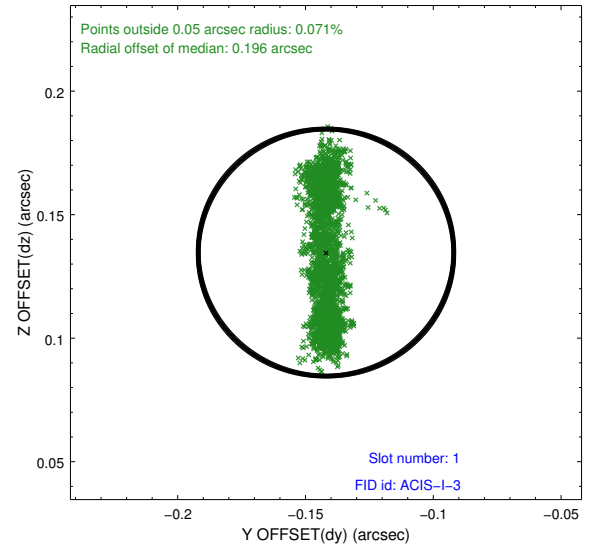
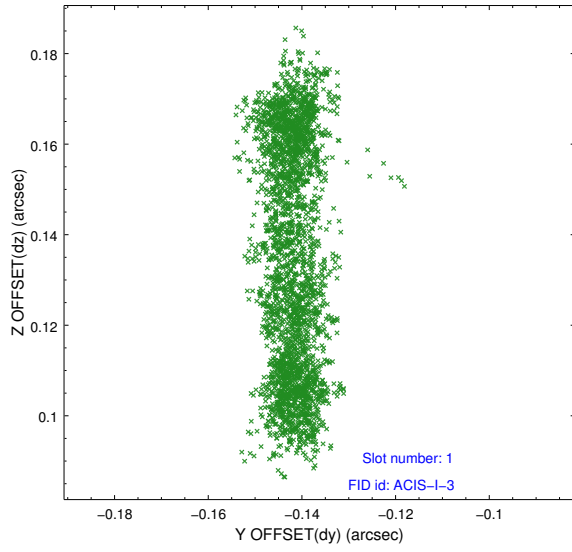


2.5 FID Slots

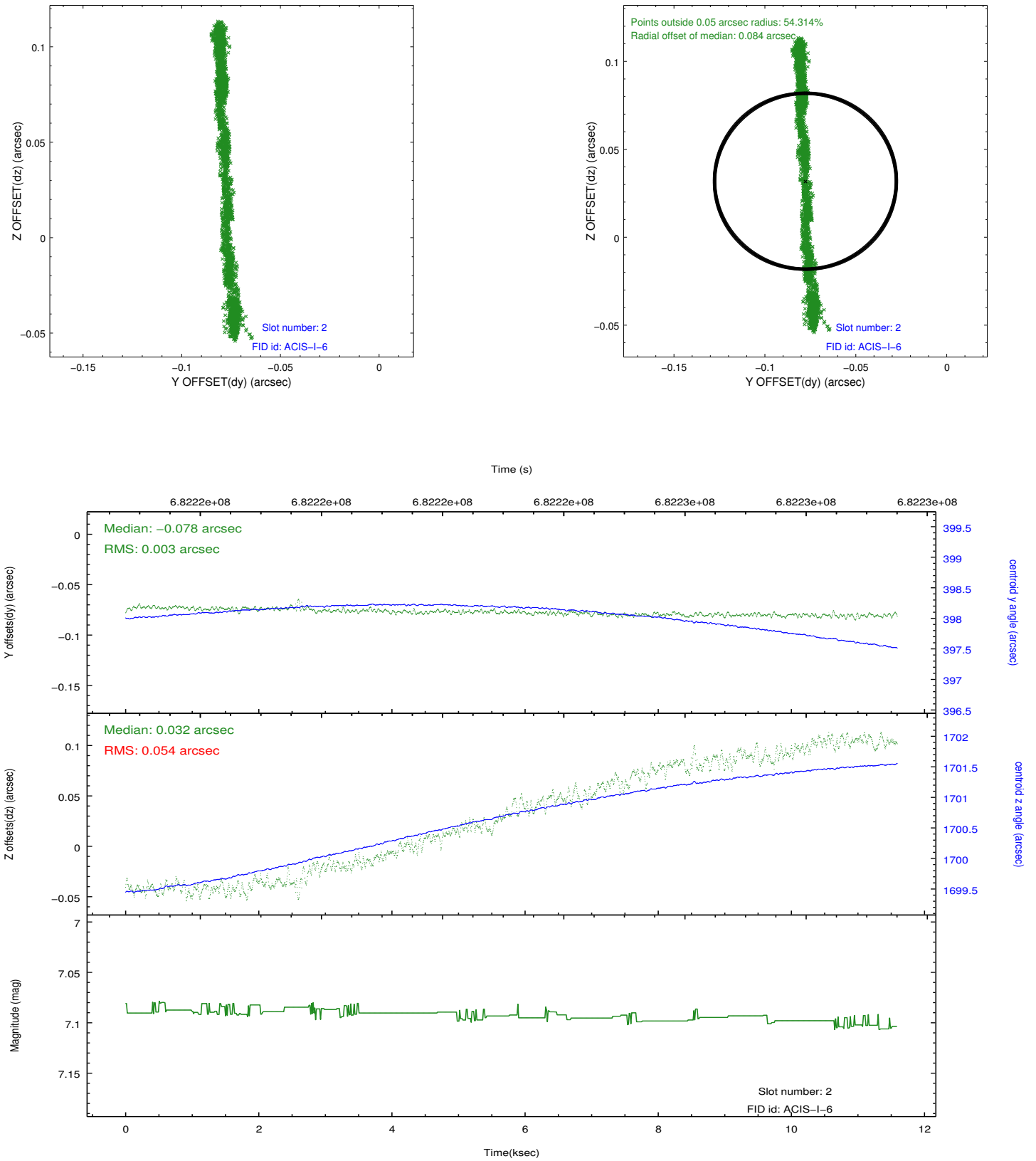
2.5.1 Slot 0



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)	2019.08.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.540600692868

A.2 Comments