

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19702 - L2 Version 1
Chandra X-Ray Center

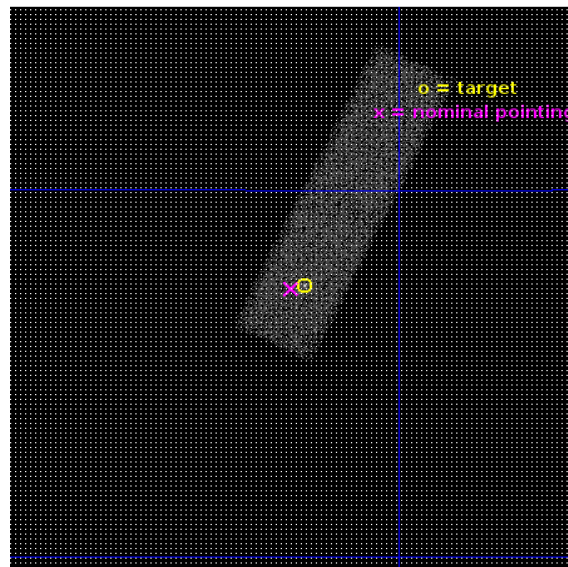
L2 Processing Date : Nov 3 2017

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1 Front

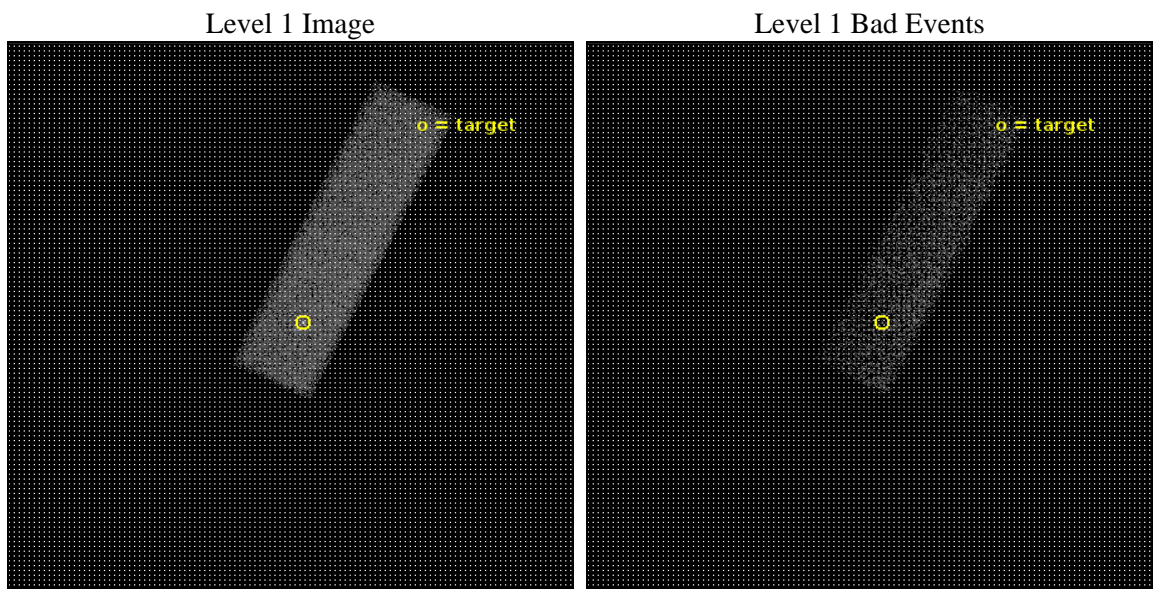
seq_num	502955	Sequence number
obs_id	19702	Observation id
title	PSR J2032+4127: A Be/Gamma-ray Pulsar Binary Heading Toward Periastron	Proposal title
observer	Jules Halpern	Principal investigator
object	PSR J2032+4127	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	308.054583	Observer's specified target RA [deg]
dec_targ	41.456806	Observer's specified target Dec [deg]
ra_nom	308.06211153662	Nominal RA [deg]
dec_nom	41.455207724724	Nominal Dec [deg]
roll_nom	296.15166028153	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20059.998804331	Sum of GTIs [s]
livetime	19081.136501789	Livetime [s]
ontime7	20059.998804331	Sum of GTIs [s]
l2events	24669	Number of level 2 events



2 OBI

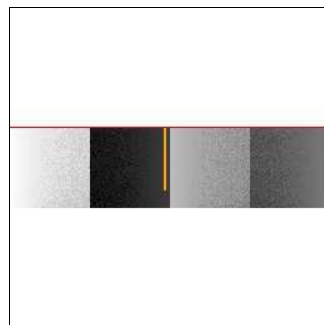
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	20059.998804331	Sum of GTIs [s]
caldsver	4.7.6	 	ontime7	20059.998804331	Sum of GTIs [s]
date	2017-11-03T17:55:30	Date and time of file creation	l1events	49060	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	49060
rejected events	23610
rejected %	48%

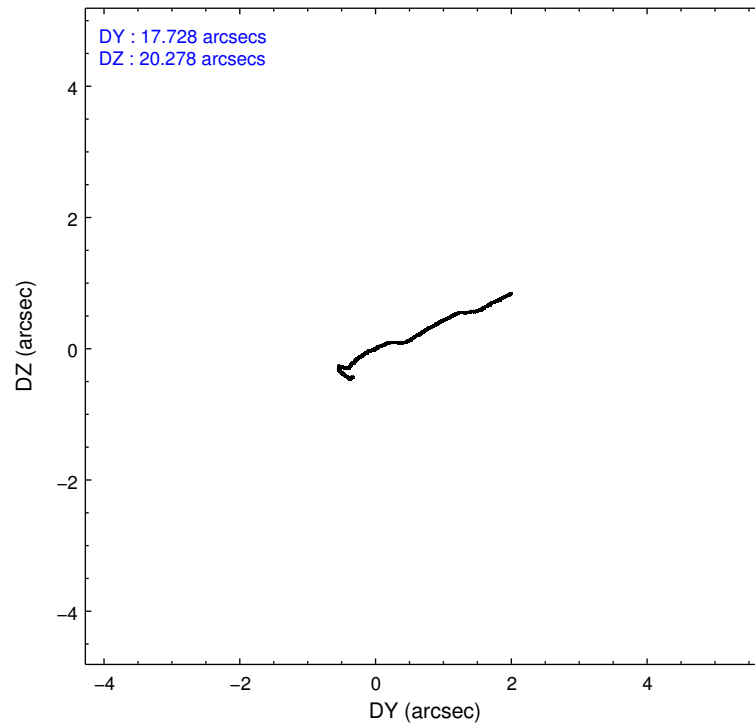
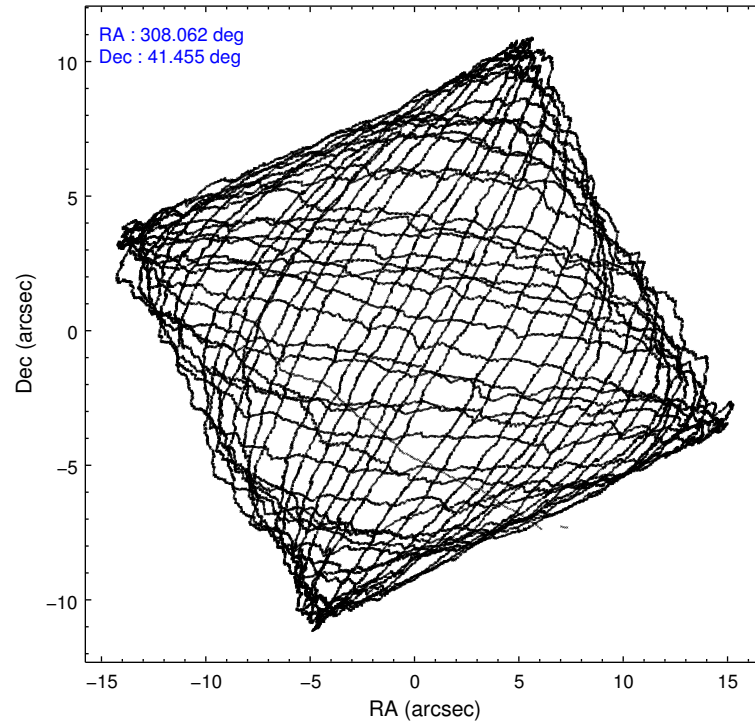
	ccd 7
grade 0 events	3021
	6%
grade 1 events	61
	0%
grade 2 events	5181
	10%
grade 3 events	2858
	5%
grade 4 events	2671
	5%
grade 5 events	4697
	9%
grade 6 events	11721
	23%
grade 7 events	18850
	38%

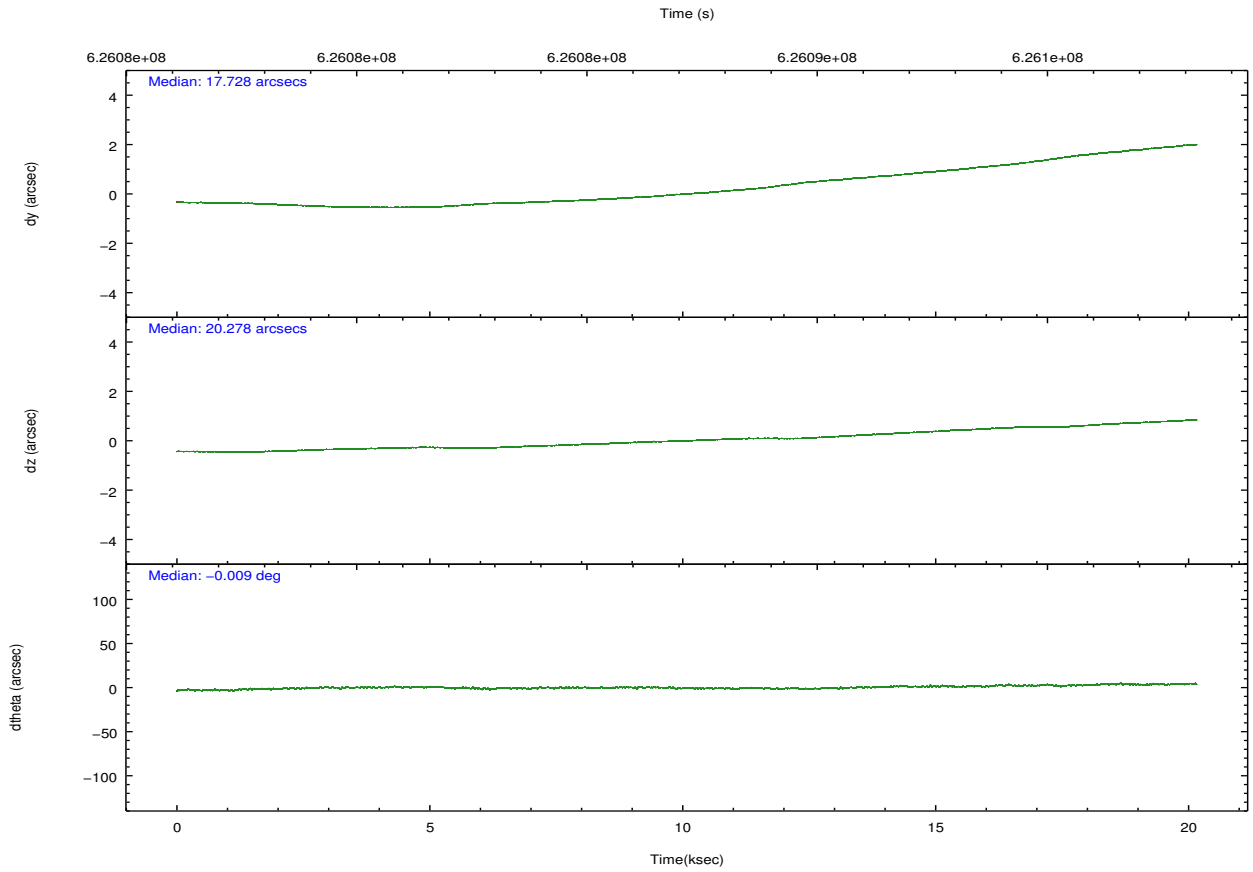
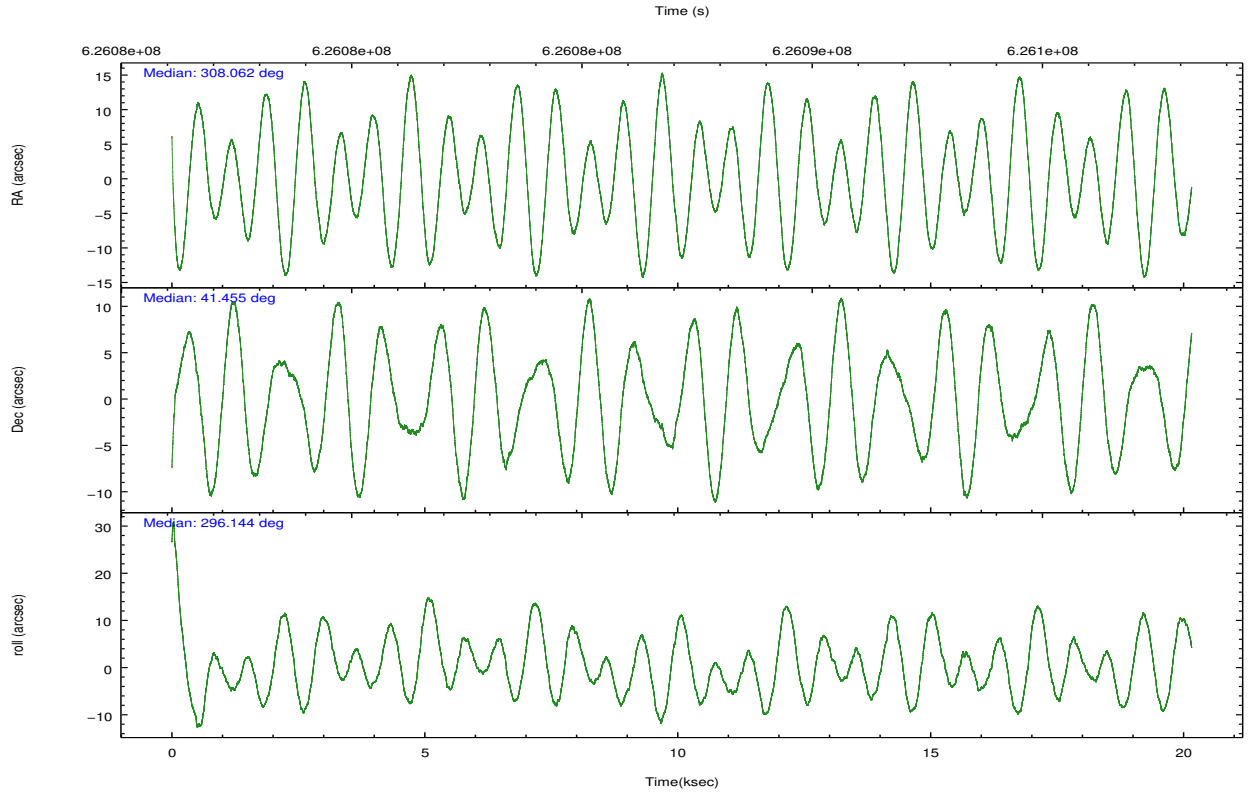
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	308.031451	308.0621115366191
[deg] Pointing Dec	41.470192	41.45520772472432
[deg] Pointing Roll	296.015316	296.1516602815261
[s] Window start time (MET)	624758469.184000	624758469.184000
[s] Window stop time (MET)	627350469.184000	627350469.184000
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	626077238.184000	626076261.029
Observation start date	2017-11-03T06:19:29	2017-11-03T06:04:21
[s] Observation end time (MET)	626097238.184000	626097852.1427701
Observation end date	2017-11-03T11:52:49	2017-11-03T12:04:12
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/4
Subarray start row	385	385
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.8

2.3 Aspect



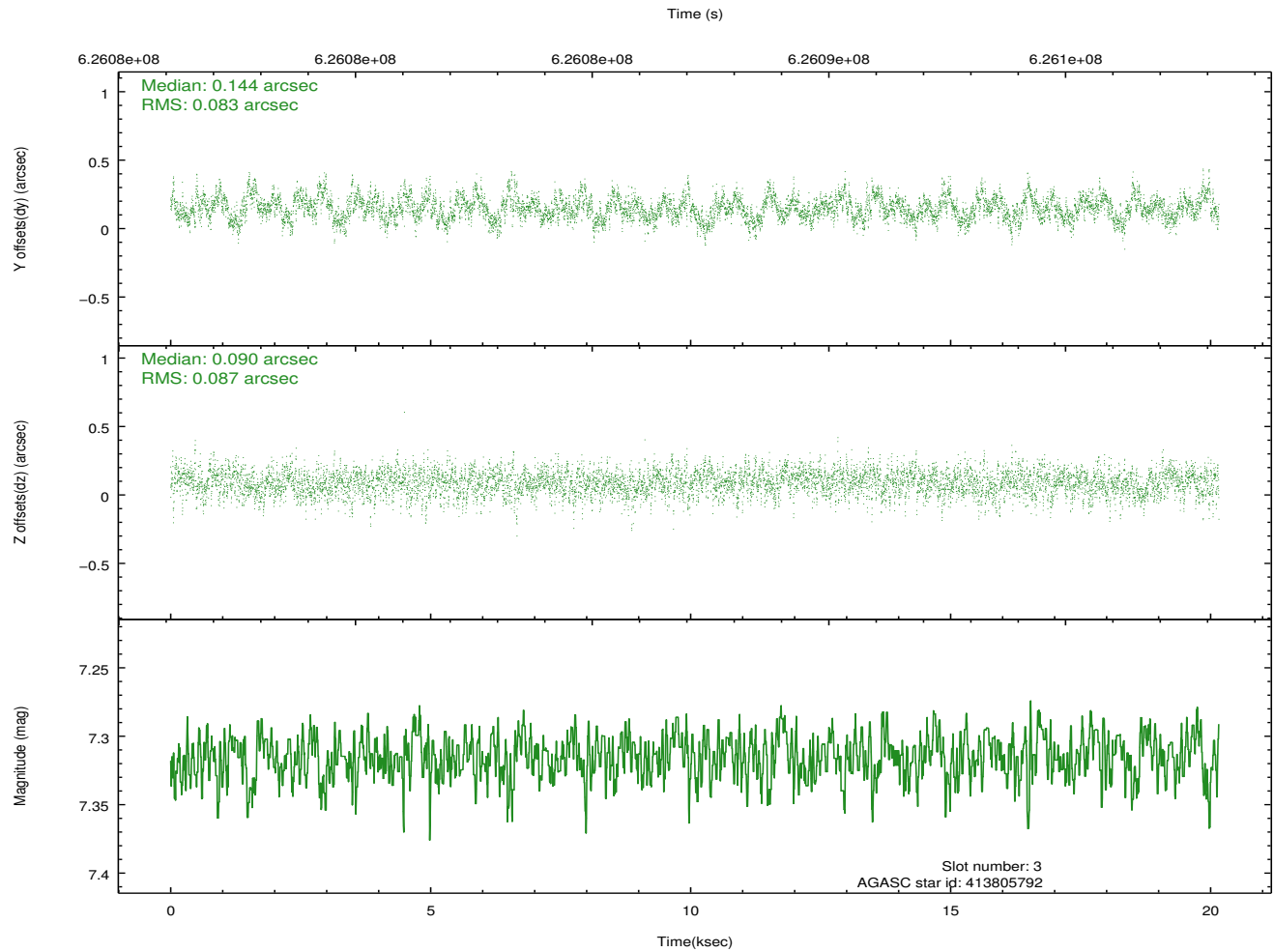
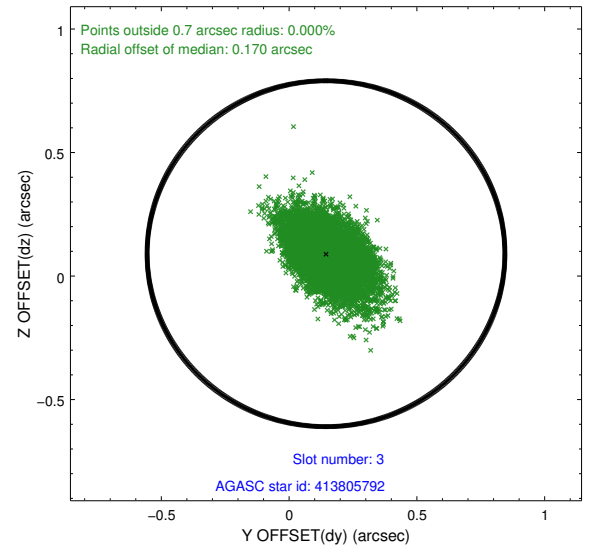
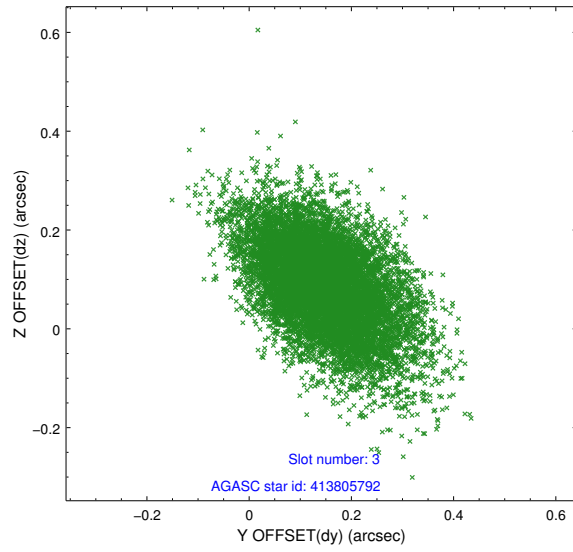


Slot Statistics

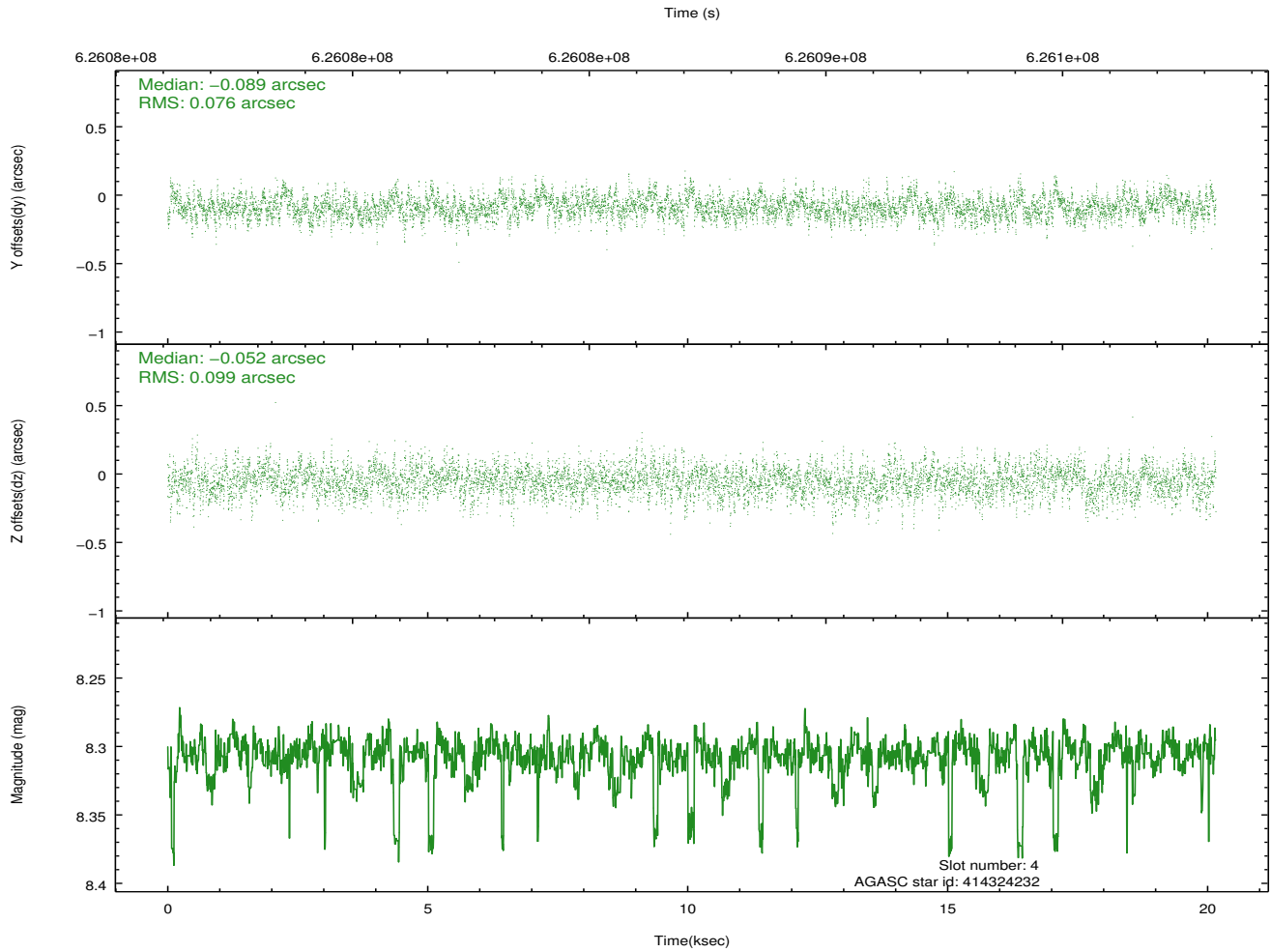
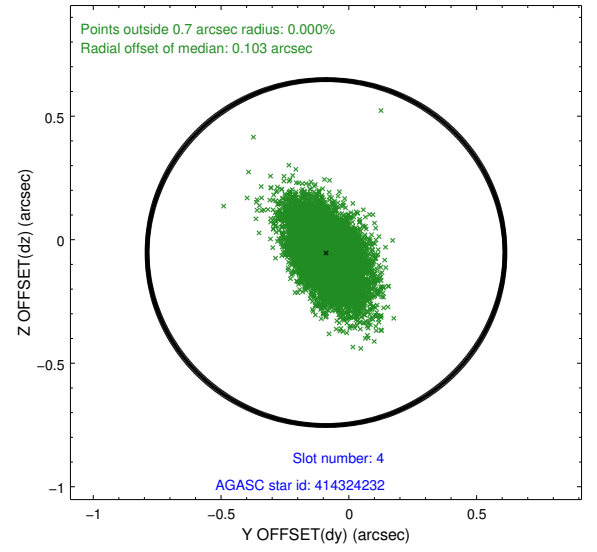
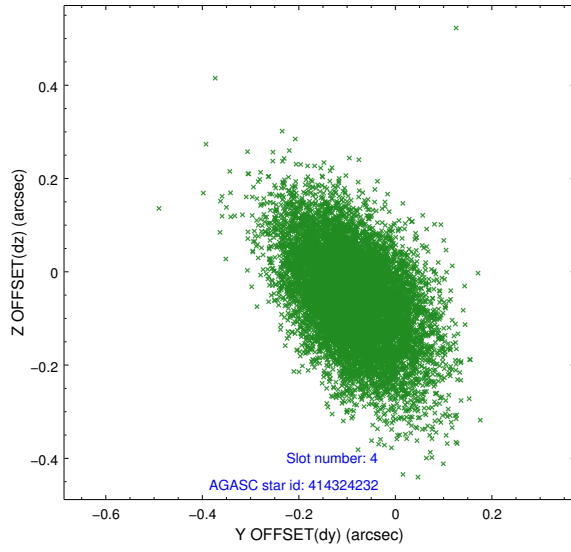
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.14	4918	0.284	-0.085	0.017	0.025	0.000000	0.000000	925.36	-1737.51
1	FID		ACIS-S-2	7.05	4918	-0.157	-0.023	0.016	0.037	0.000000	0.000000	-770.89	-1742.31
2	FID		ACIS-S-5	7.15	4918	-0.149	0.115	0.012	0.020	0.000000	0.000000	-1824.44	159.87
3	GUIDE	used	413805792	7.31	9834	0.144	0.090	0.123	0.214	307.778748	40.858024	1677.95	-1583.58
4	GUIDE	used	414324232	8.31	9832	-0.089	-0.052	0.128	0.224	308.637806	41.996627	-996.57	2291.38
5	GUIDE	used	414324952	8.99	9828	0.194	0.290	0.145	0.248	307.998954	42.060645	-1948.05	854.80
6	GUIDE	used	414326136	7.35	9831	-0.050	-0.153	0.115	0.207	308.256176	41.473642	253.60	551.25
7	GUIDE	used	414328464	9.12	9820	-0.211	-0.171	0.162	0.266	308.778827	41.333671	1319.92	1604.11

2.4 Star Slots

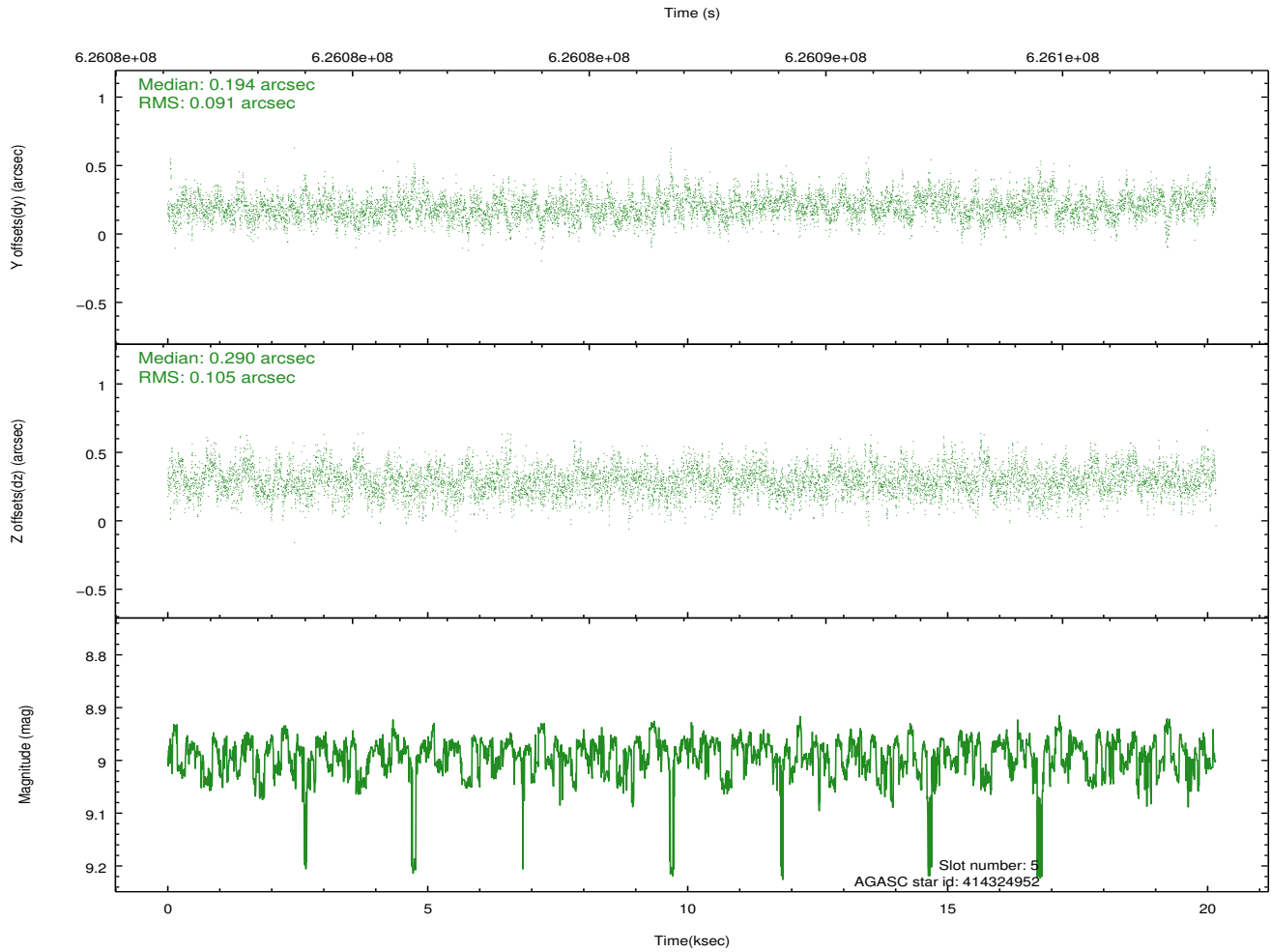
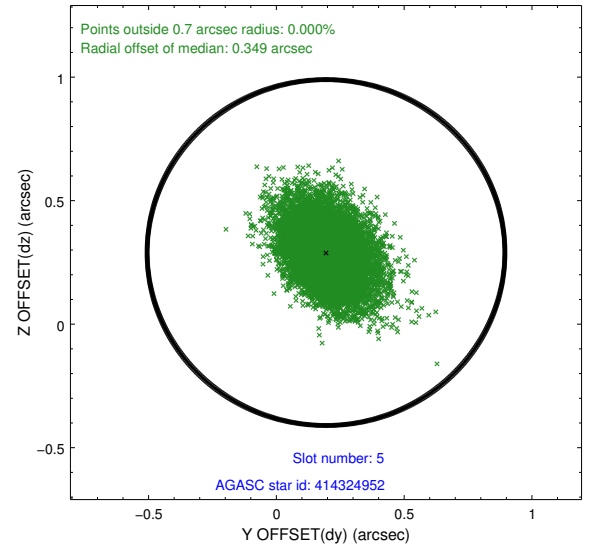
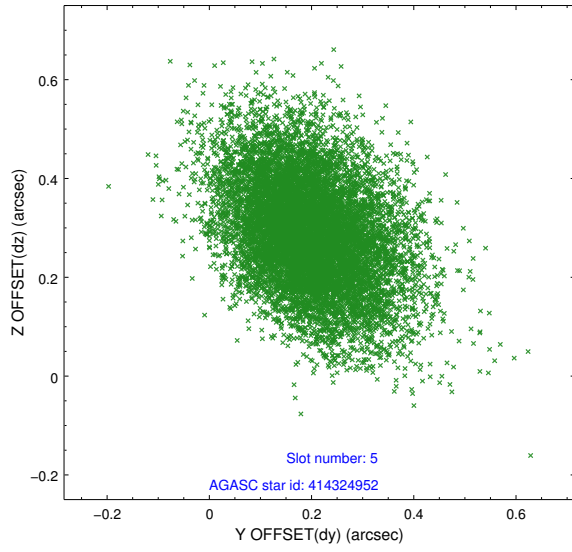
2.4.1 Slot 3



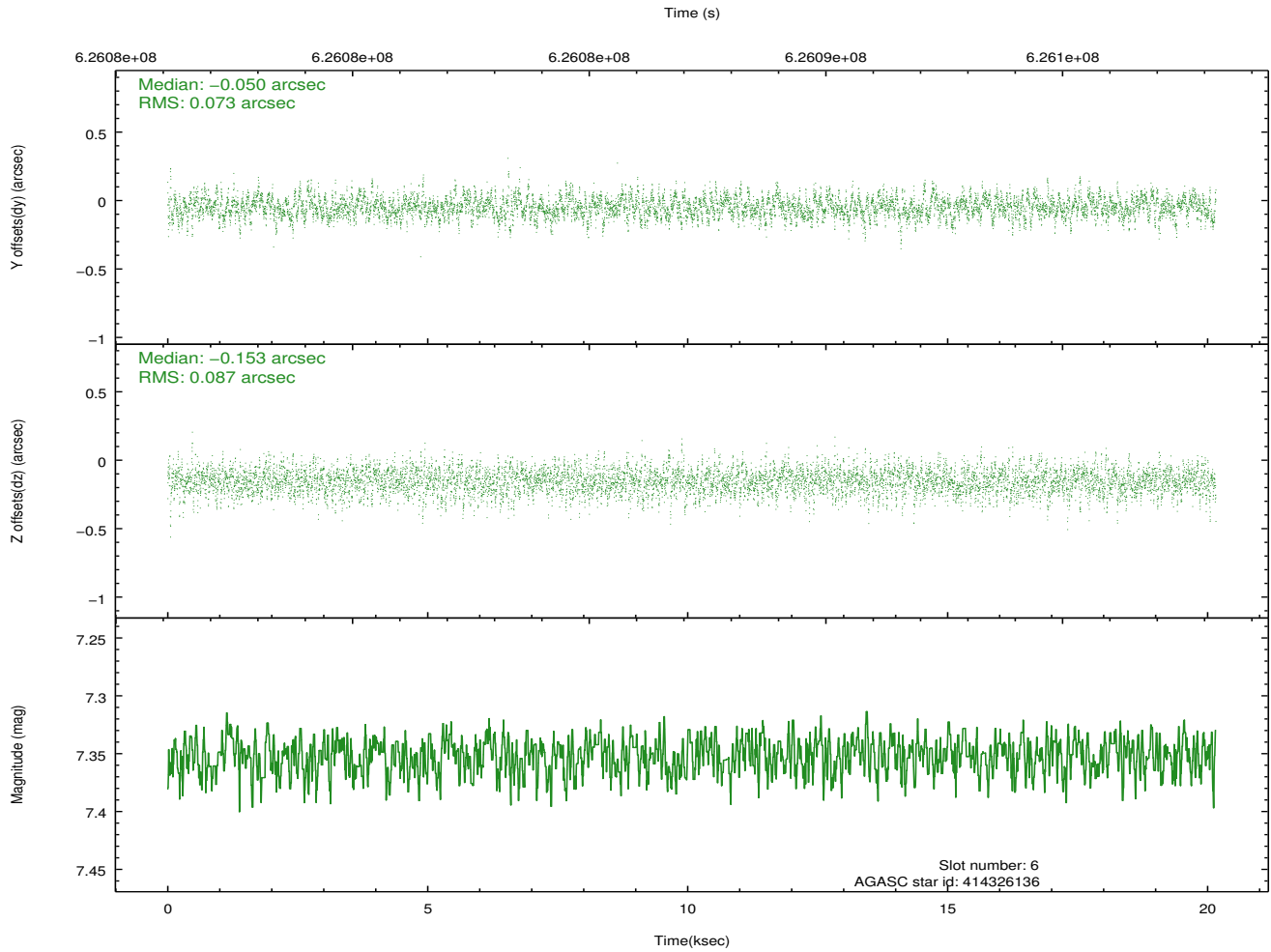
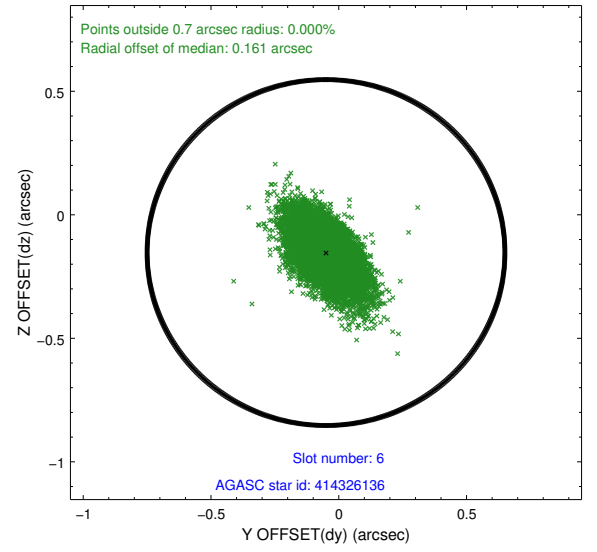
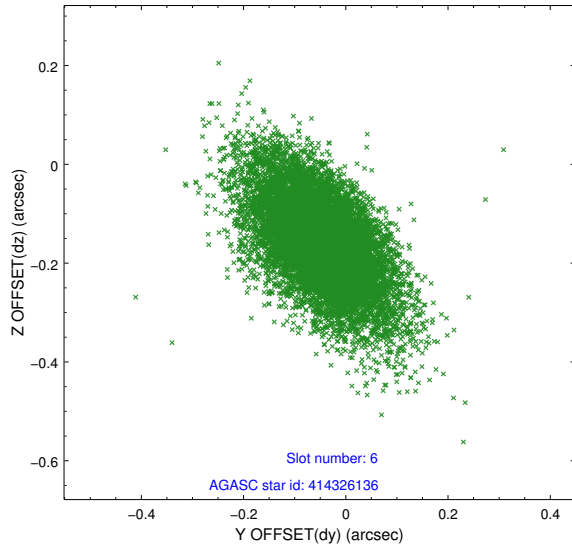
2.4.2 Slot 4



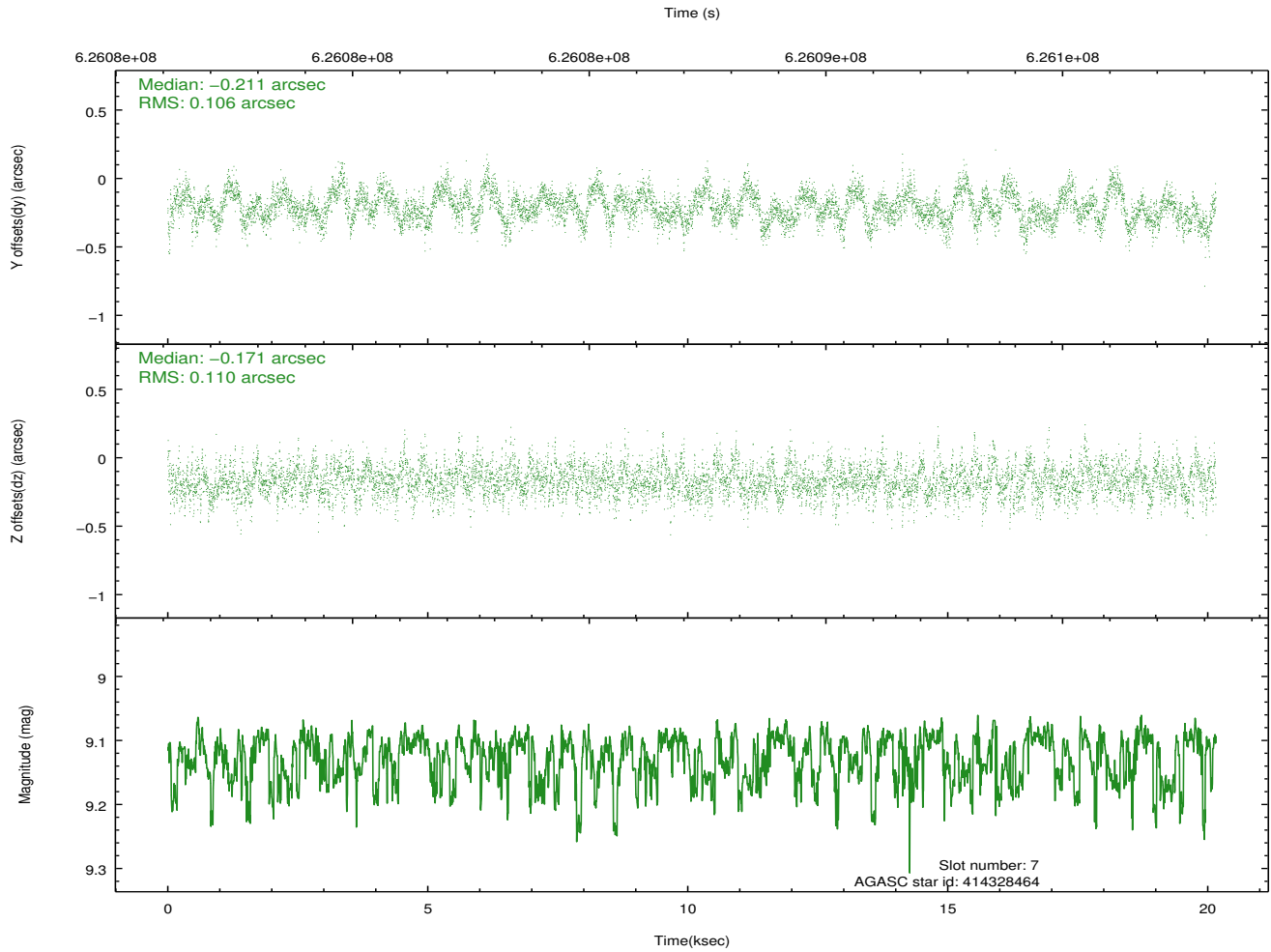
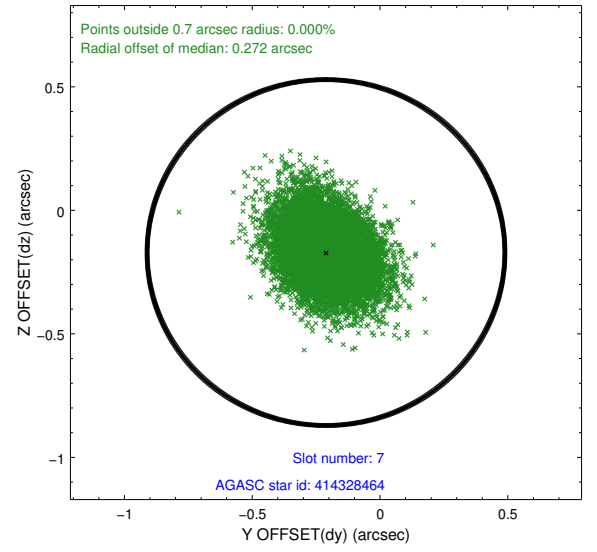
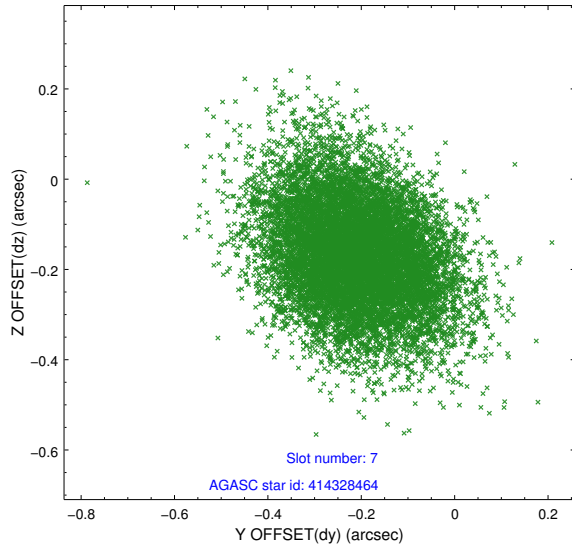
2.4.3 Slot 5



2.4.4 Slot 6

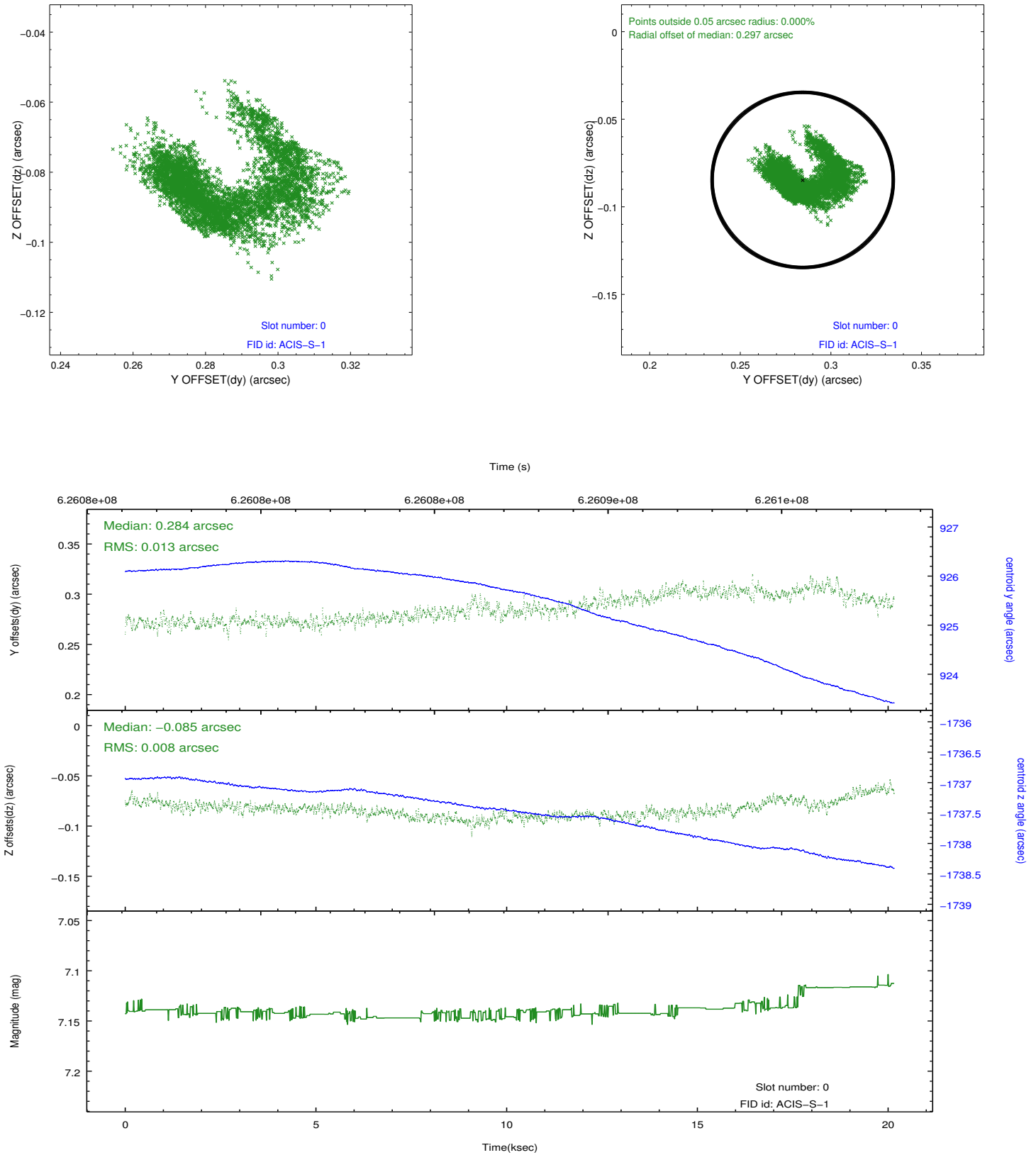


2.4.5 Slot 7

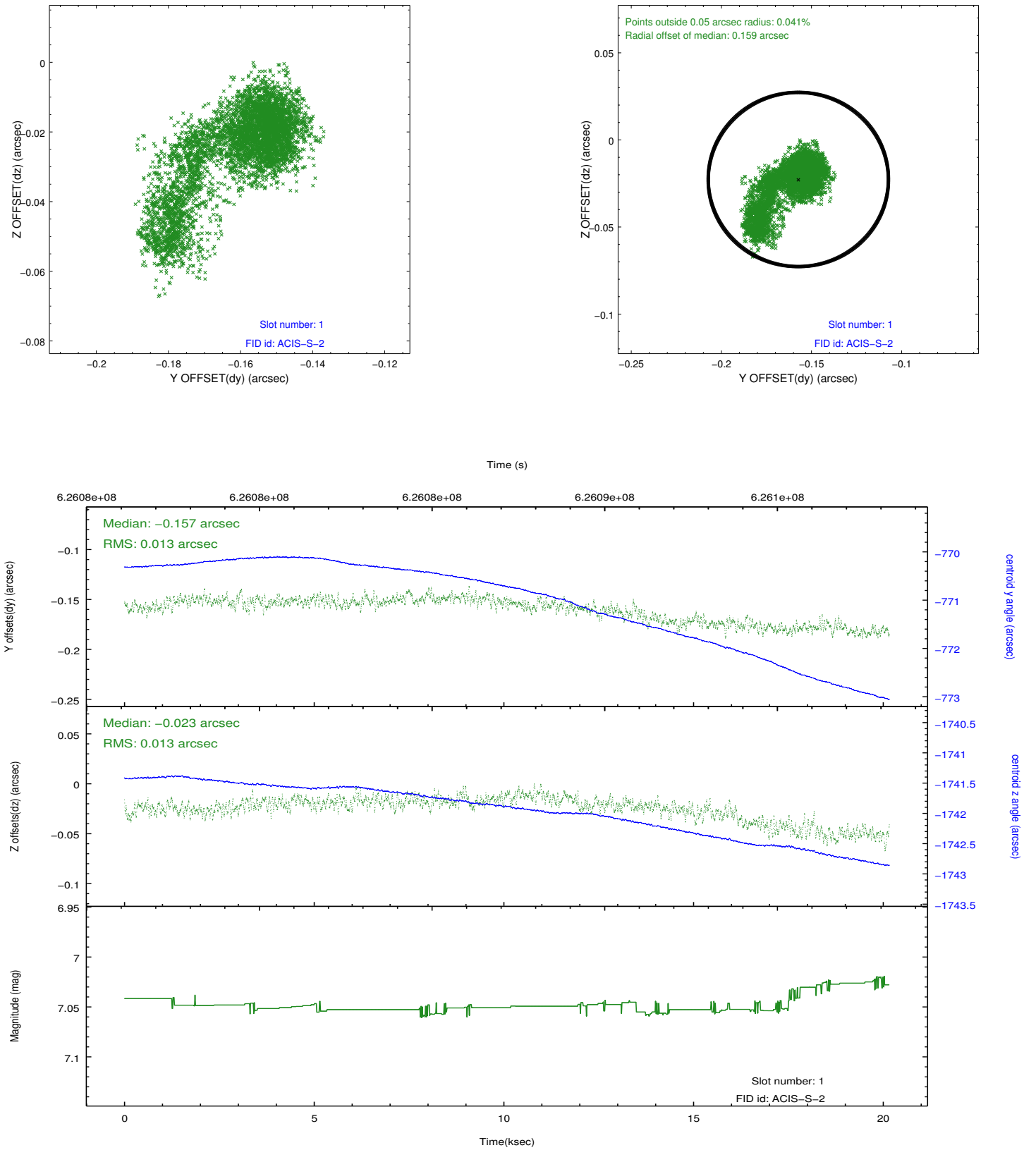


2.5 FID Slots

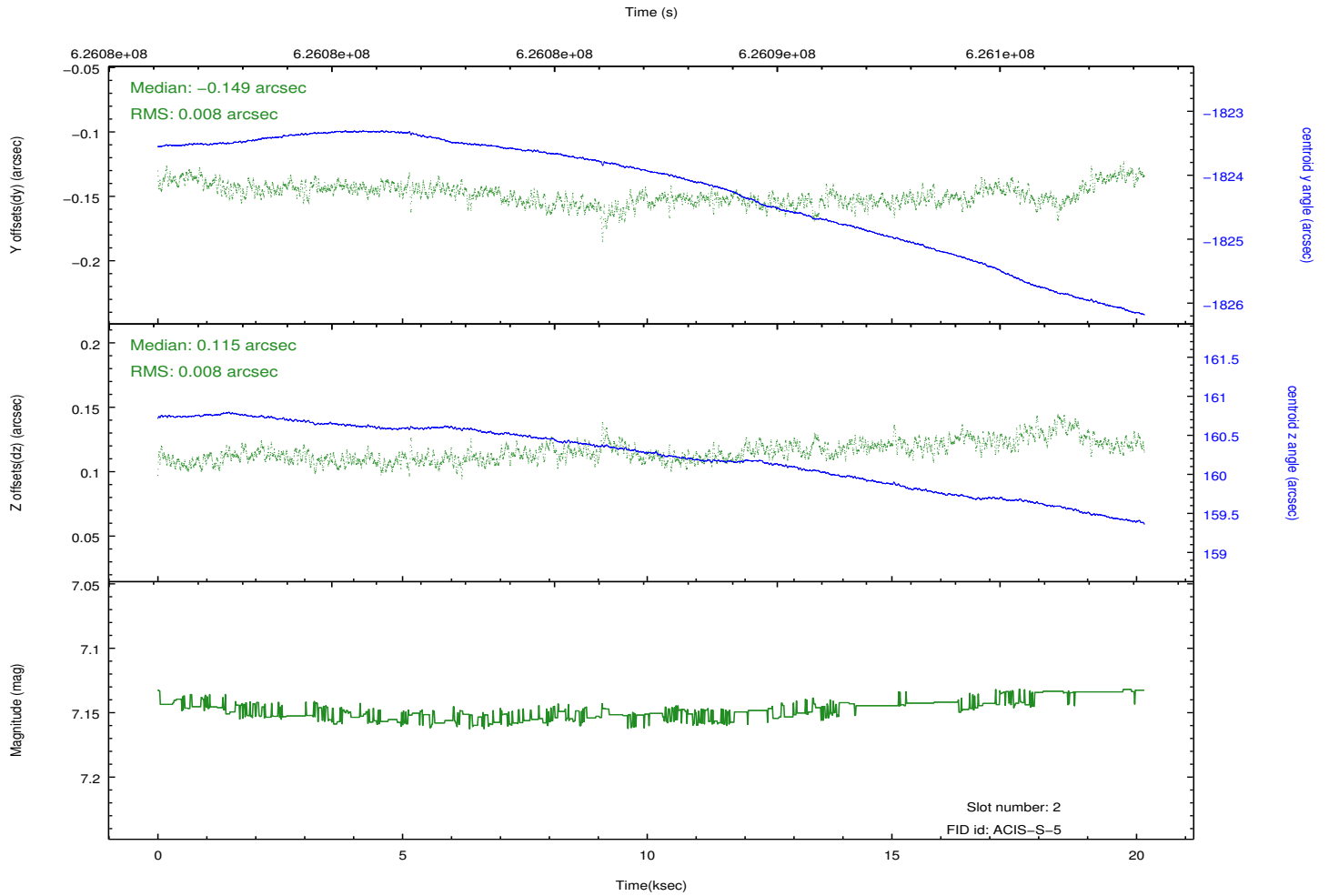
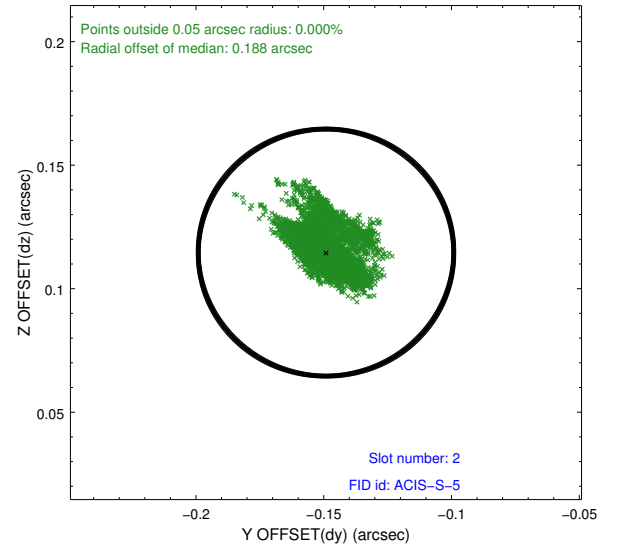
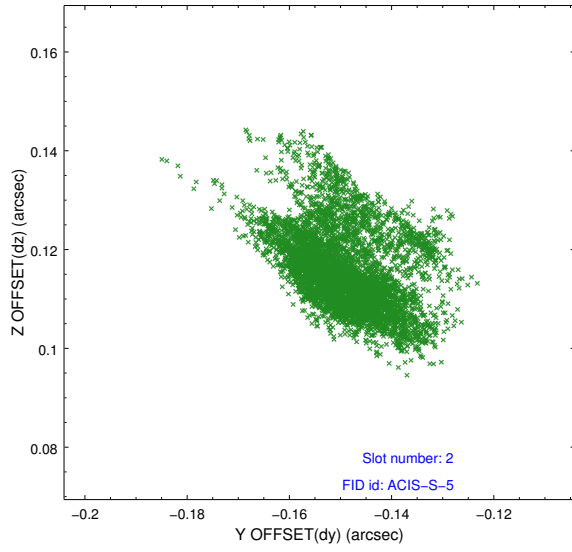
2.5.1 Slot 0



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)	2017.11.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.059998804331

A.2 Comments

Window preference met.