

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 17904 - L2 Version 1
Chandra X-Ray Center

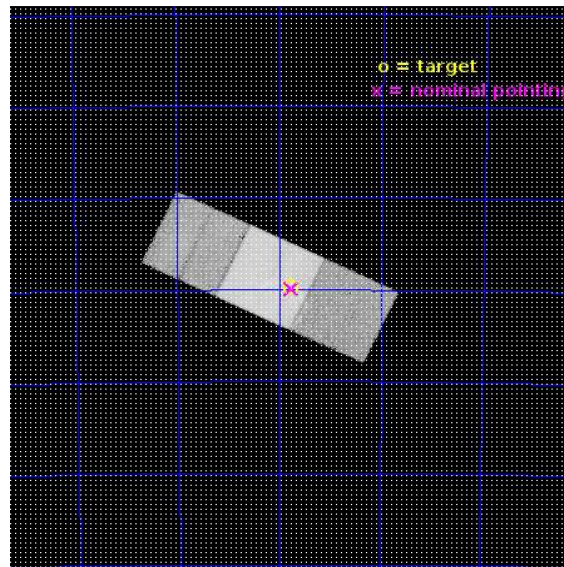
L2 Processing Date : May 4 2017

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

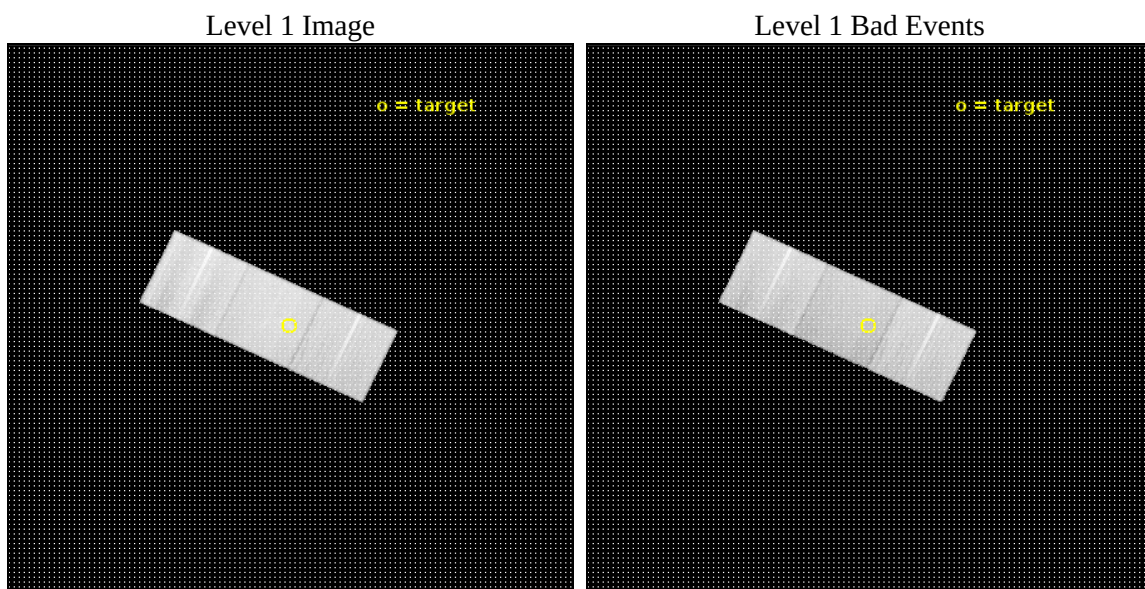
seq_num	502523	Sequence number
obs_id	17904	Observation id
title	The origin of gamma-ray emission from 30 Dor C: The first TeV superbubble	Proposal title
observer	Dr Patrick Kavanagh	Principal investigator
object	30 Dor C	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.94375	Observer's specified target RA [deg]
dec_targ	-69.161111	Observer's specified target Dec [deg]
ra_nom	83.941084137555	Nominal RA [deg]
dec_nom	-69.165393979984	Nominal Dec [deg]
roll_nom	205.15414913747	Nominal Roll [deg]
revision	1	Processing version of data
ontime	41009.900315523	Sum of GTIs [s]
livetime	40474.075776851	Livetime [s]
ontime6	41003.61839509	Sum of GTIs [s]
ontime7	41009.900315523	Sum of GTIs [s]
ontime8	41003.618404984	Sum of GTIs [s]
l2events	236525	Number of level 2 events



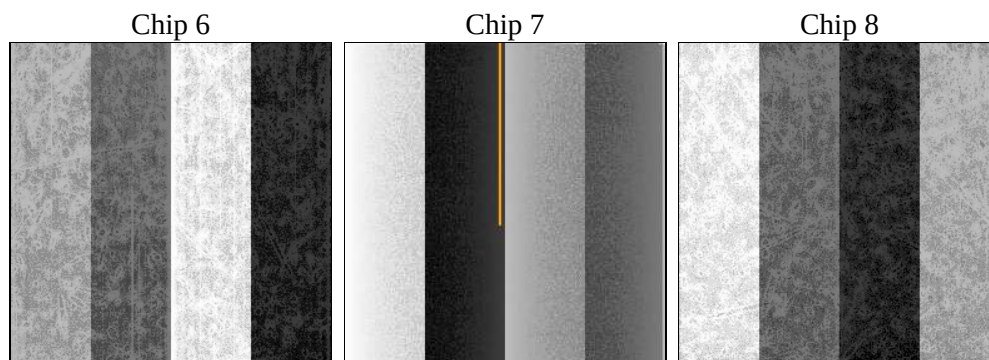
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40899.885000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	41009.900315523	Sum of GTIs [s]
caldbver	4.7.3	 	ontime6	41003.61839509	Sum of GTIs [s]
date	2017-05-04T17:02:25	Date and time of file creation	ontime7	41009.900315523	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	41003.618404984	Sum of GTIs [s]
			l1events	1075332	Number of level 1 events

2.1.4 Events

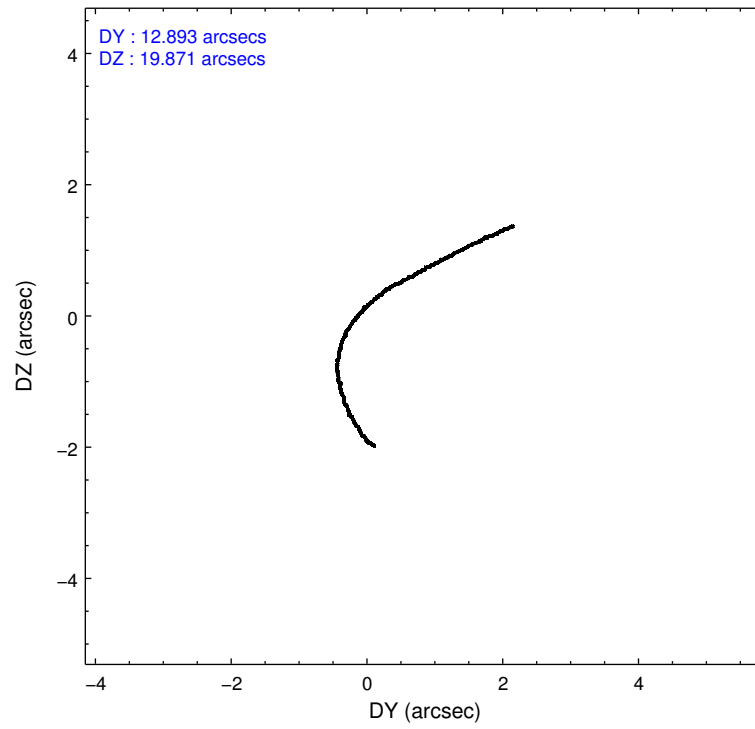
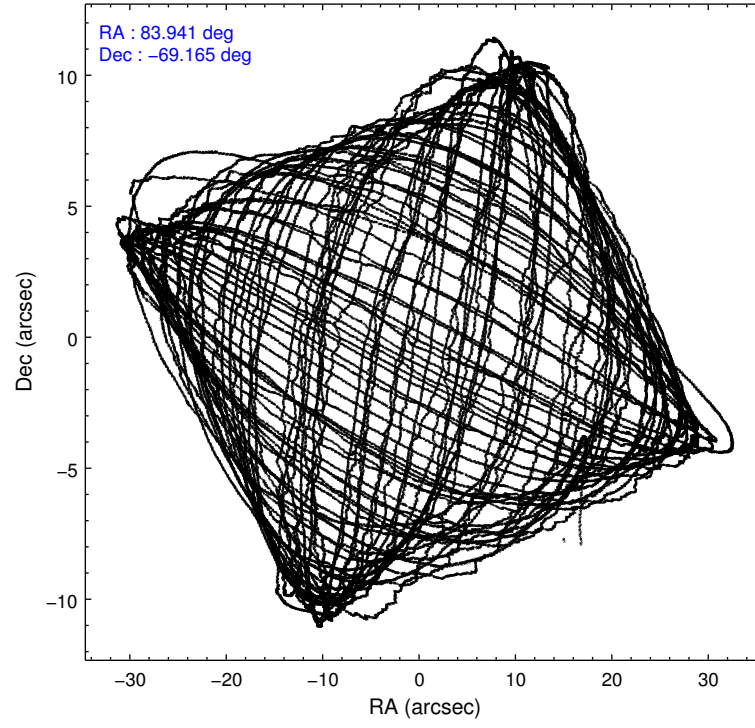
	ccd 6	ccd 7	ccd 8
level 1 events	305425	376297	393610
rejected events	270001	205078	284264
rejected %	88%	54%	72%

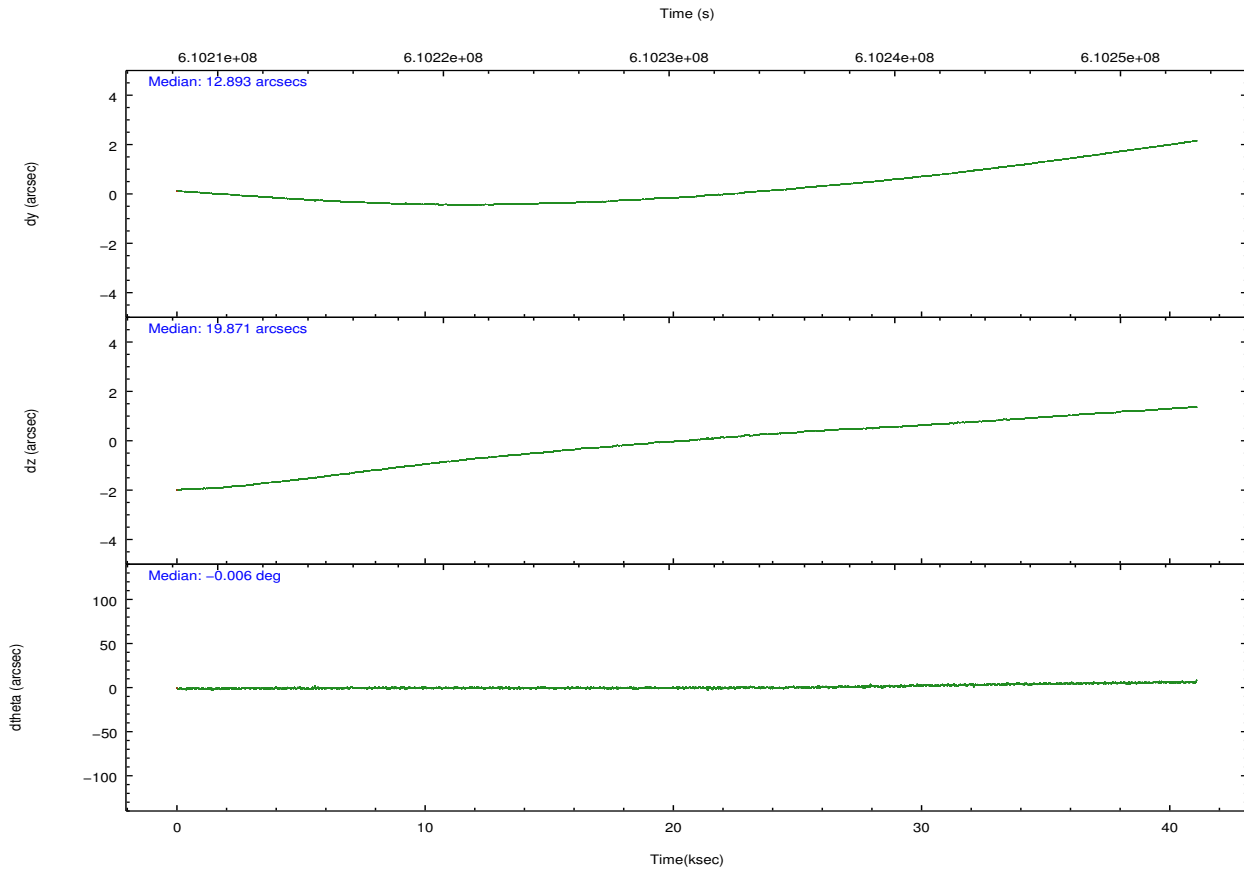
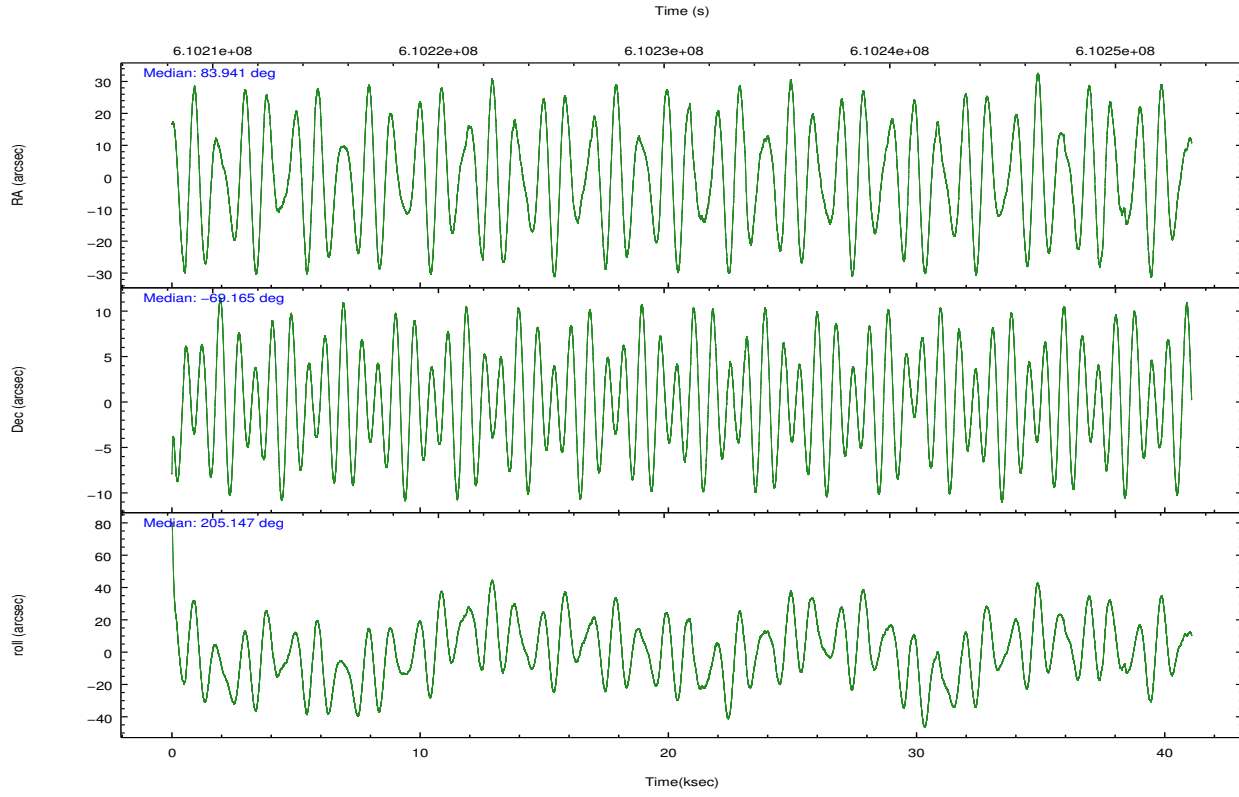
	ccd 6	ccd 7	ccd 8
grade 0 events	12808	16756	34871
	4%	4%	8%
grade 1 events	164	496	313
	0%	0%	0%
grade 2 events	8104	36955	25342
	2%	9%	6%
grade 3 events	3312	13920	10724
	1%	3%	2%
grade 4 events	3239	13669	9915
	1%	3%	2%
grade 5 events	13206	35579	20448
	4%	9%	5%
grade 6 events	7962	89937	28499
	2%	23%	7%
grade 7 events	256630	168985	263498
	84%	44%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	83.984278	83.94108413755484	Subarray requested	NONE	NONE
[deg] Pointing Dec	-69.142648	-69.16539397998434	Alternating exposures requested	N	N
[deg] Pointing Roll	205.037875	205.1541491374738	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	610210440.184000	610209360.55268			
Observation start date	2017-05-03T14:52:51	2017-05-03T14:36:00			
[s] Observation end time (MET)	610251340.184000	610251570.05513			
Observation end date	2017-05-04T02:14:31	2017-05-04T02:19:30			
Read mode	TIMED	TIMED			

2.3 Aspect



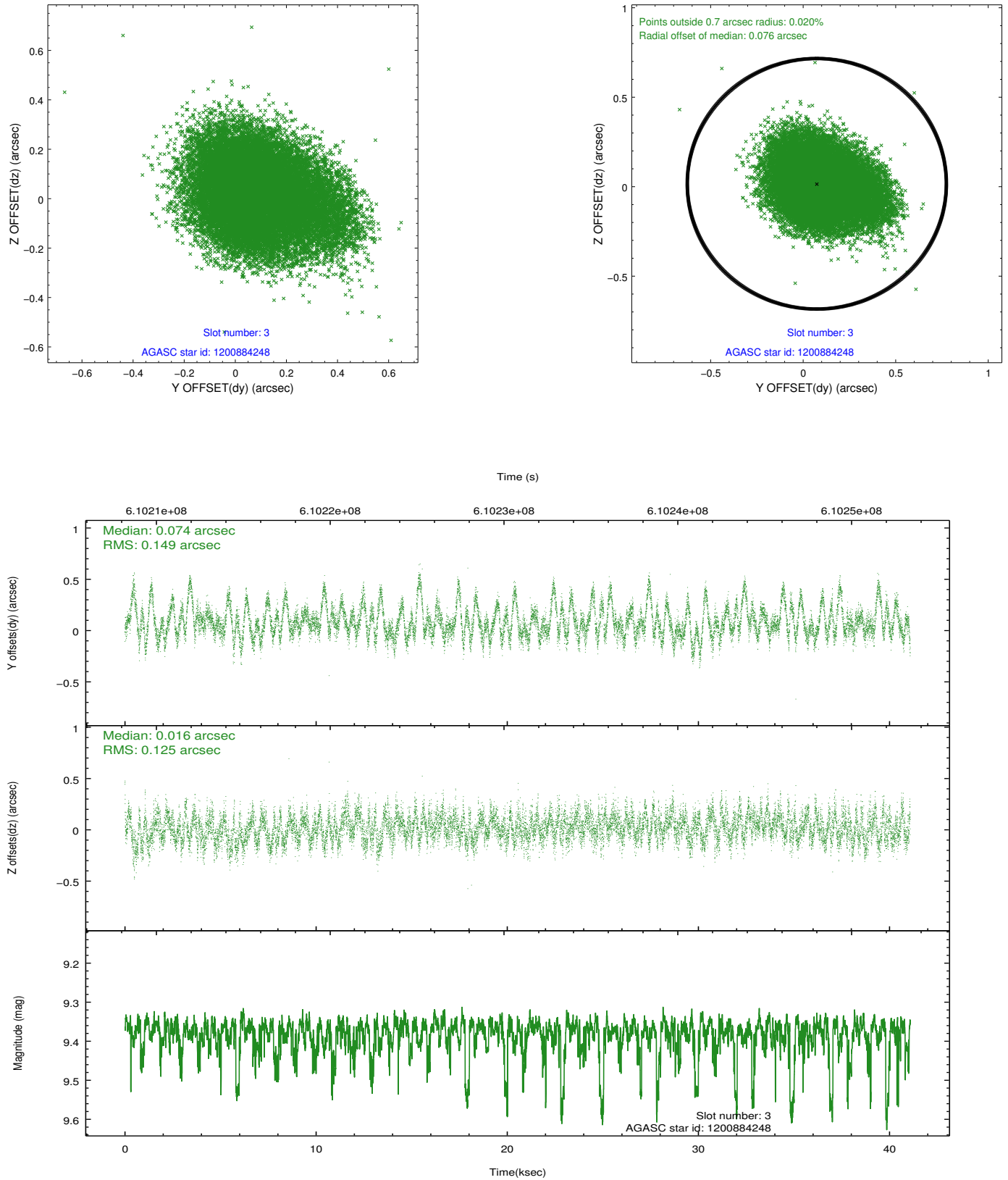


Slot Statistics

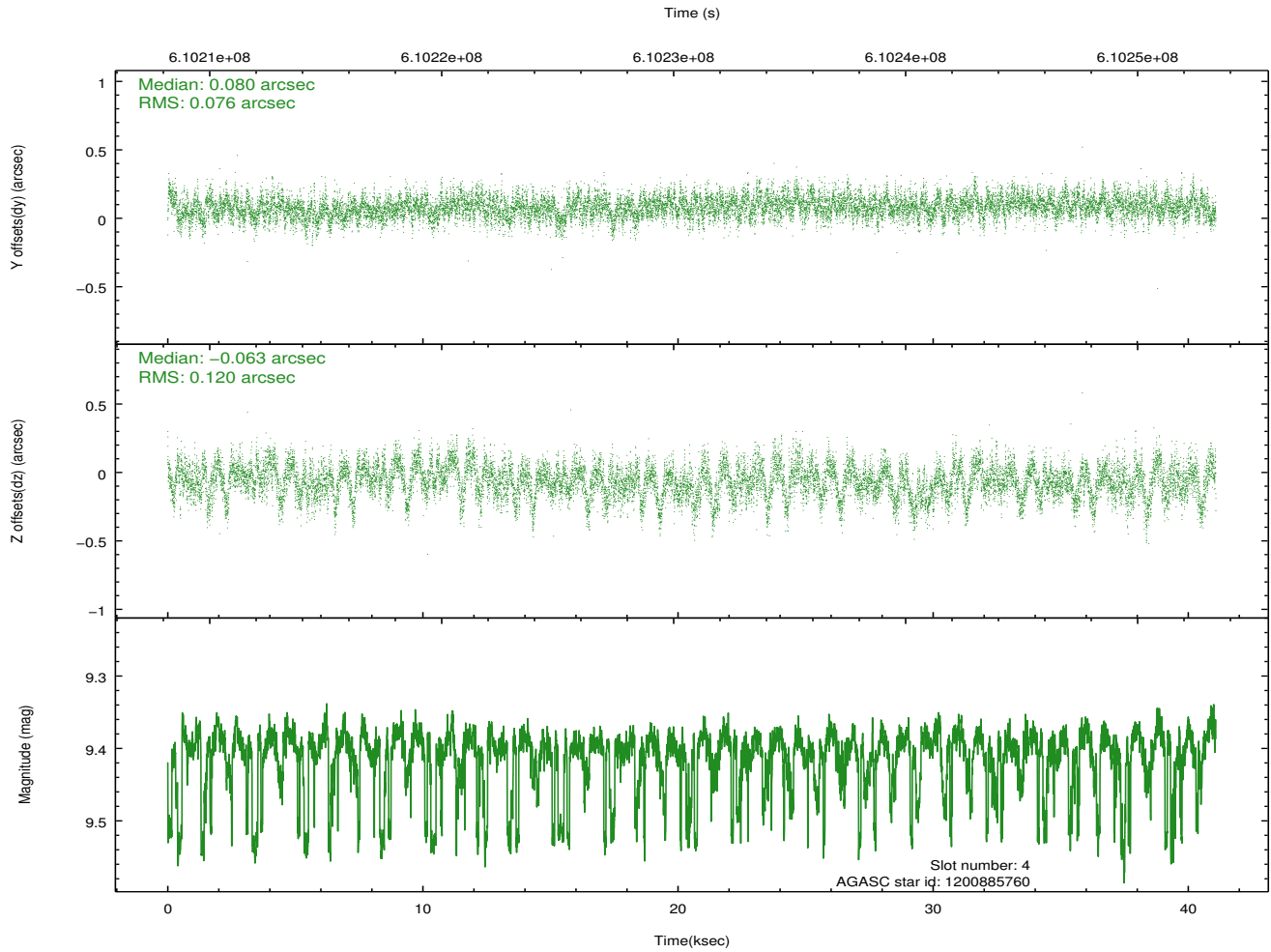
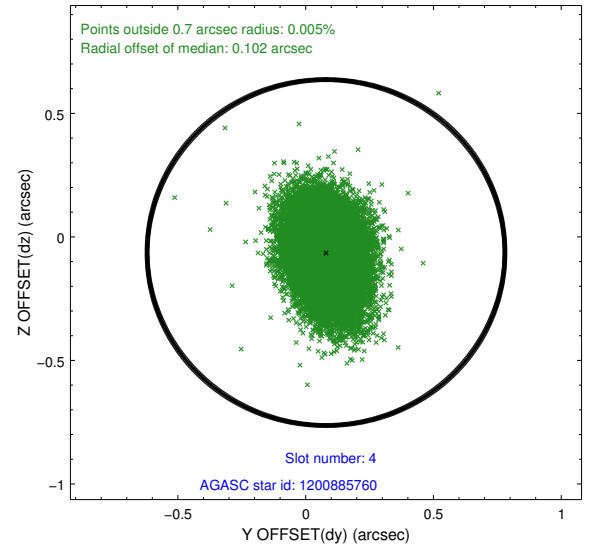
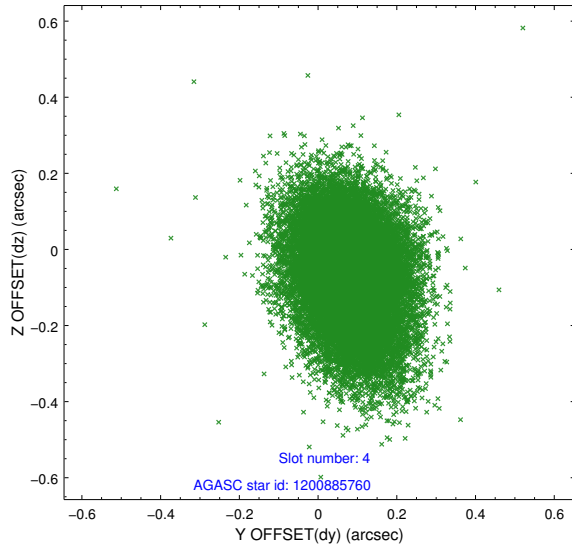
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.17	10020	-0.081	-0.059	0.045	0.062	0.000000	0.000000	929.85	-1736.82
1	FID		ACIS-S-4	7.20	10019	0.196	0.060	0.026	0.044	0.000000	0.000000	2147.52	167.45
2	FID		ACIS-S-6	7.32	10019	-0.139	0.011	0.020	0.029	0.000000	0.000000	395.72	804.76
3	GUIDE	used	1200884248	9.38	20011	0.074	0.016	0.205	0.340	83.880915	-68.565170	-756.55	-1940.89
4	GUIDE	used	1200885760	9.40	20012	0.080	-0.063	0.148	0.251	83.723637	-68.777667	-247.57	-1333.14
5	GUIDE	used	1201019200	9.38	20019	0.005	-0.085	0.173	0.279	84.213591	-68.777384	-826.60	-1064.33
6	GUIDE	used	1201019672	6.81	20040	-0.202	0.042	0.099	0.165	85.312192	-68.770187	-2127.71	-465.29
7	GUIDE	used	1201020040	8.56	20029	0.017	0.093	0.114	0.188	85.379163	-68.879396	-2031.43	-74.15

2.4 Star Slots

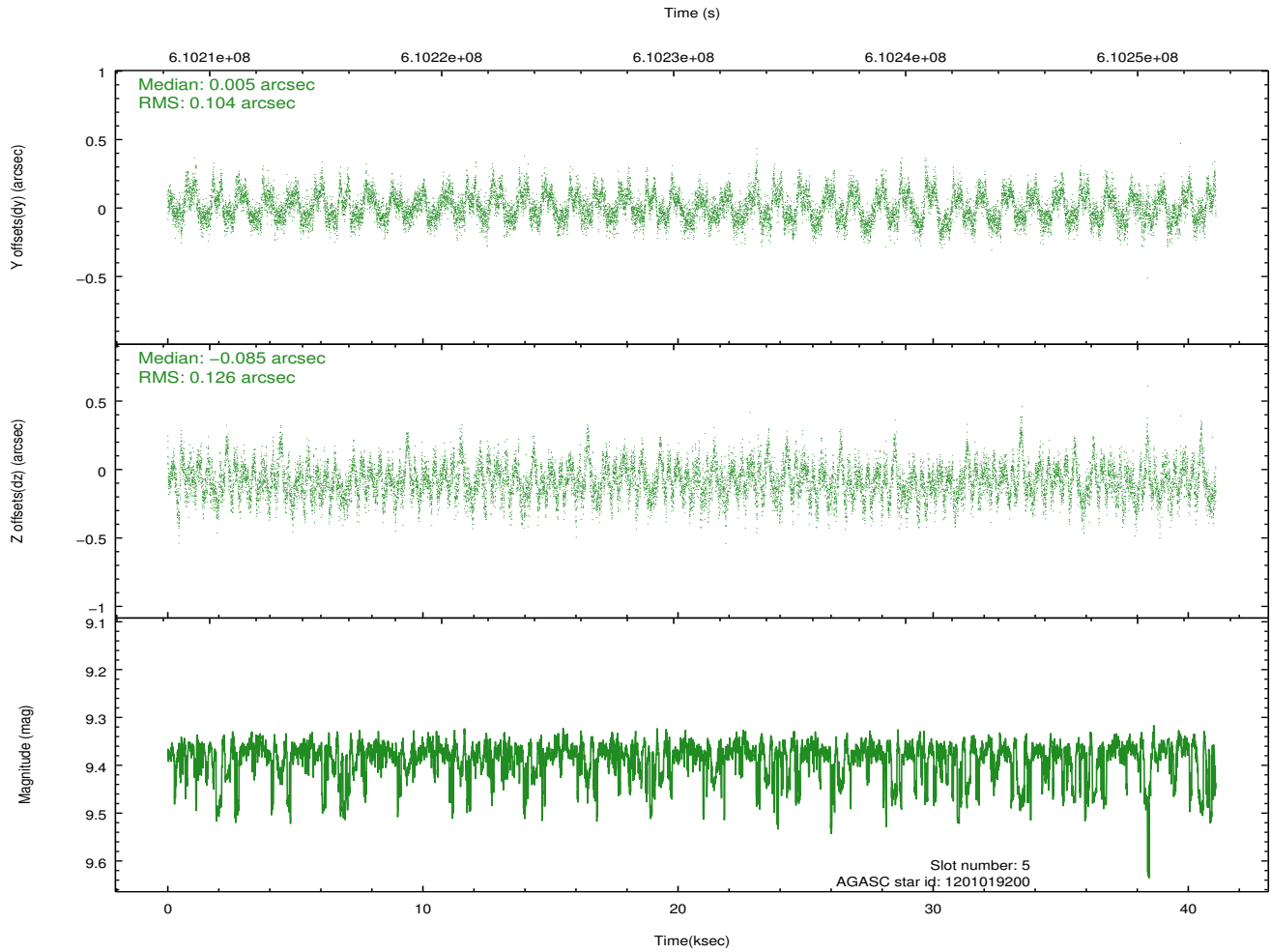
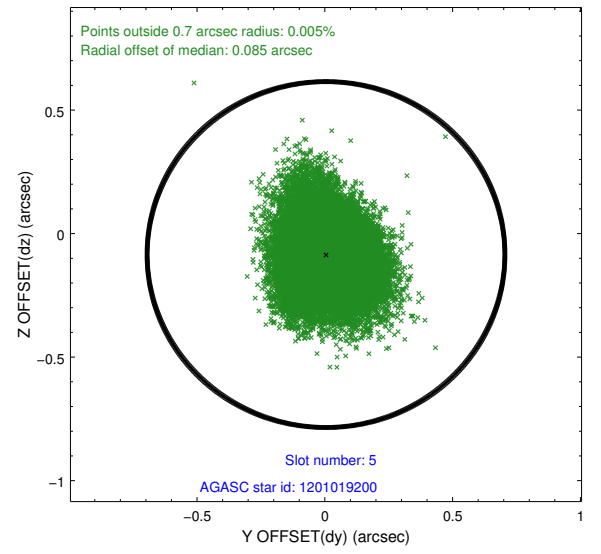
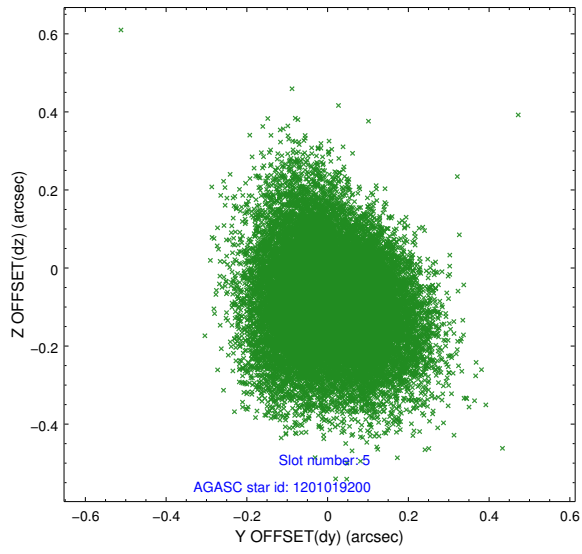
2.4.1 Slot 3



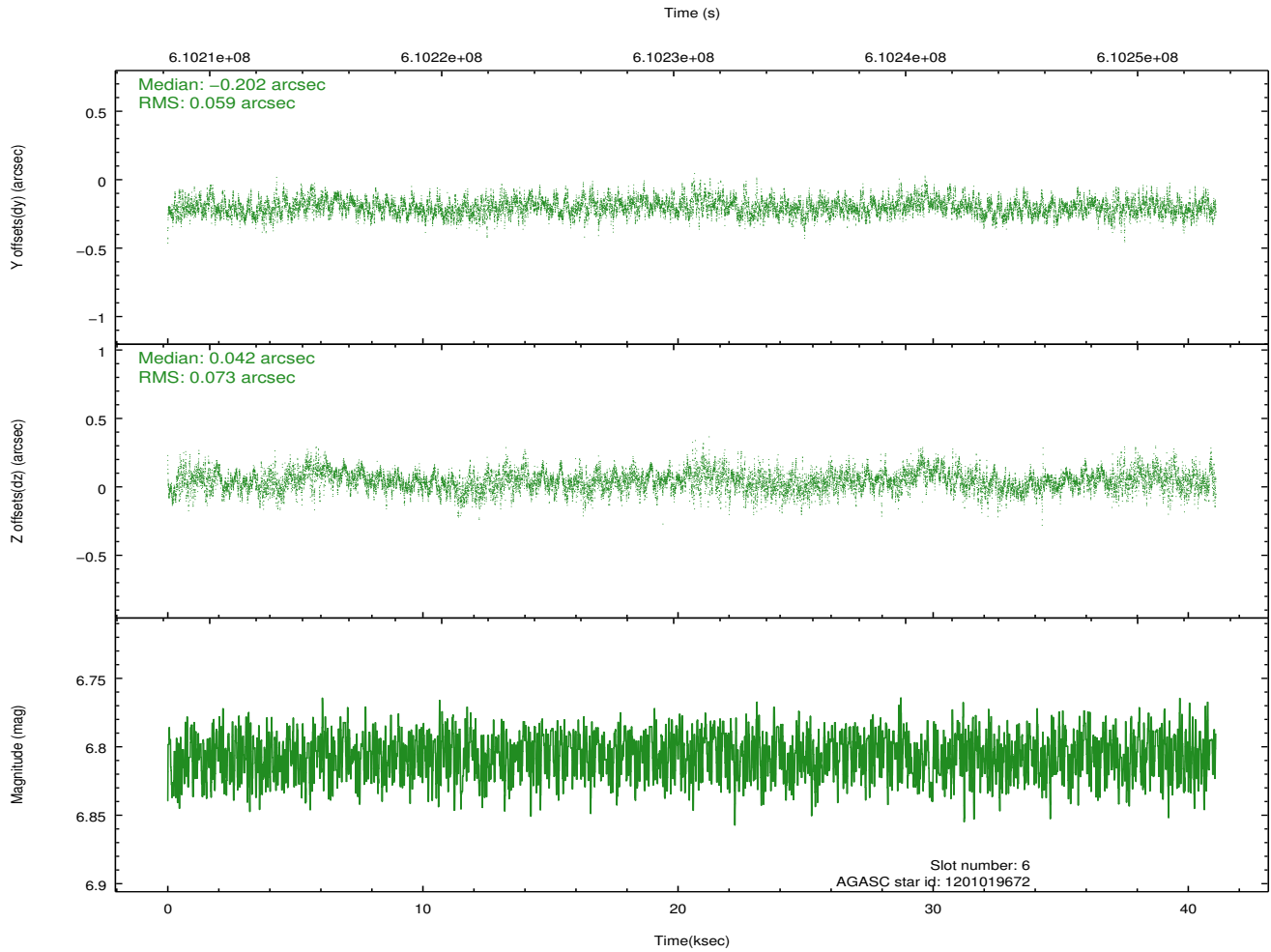
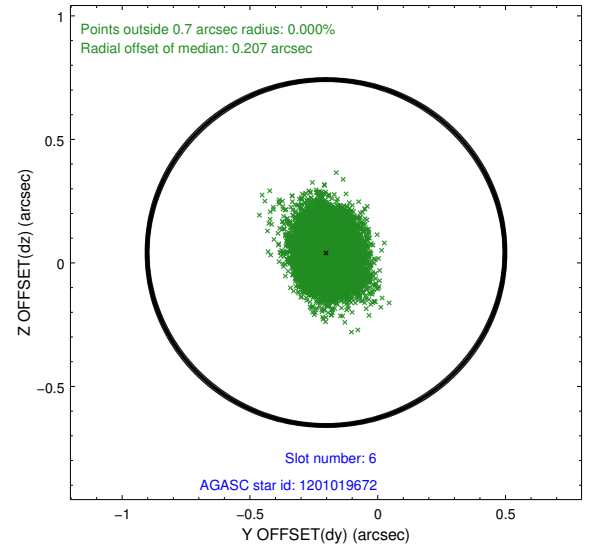
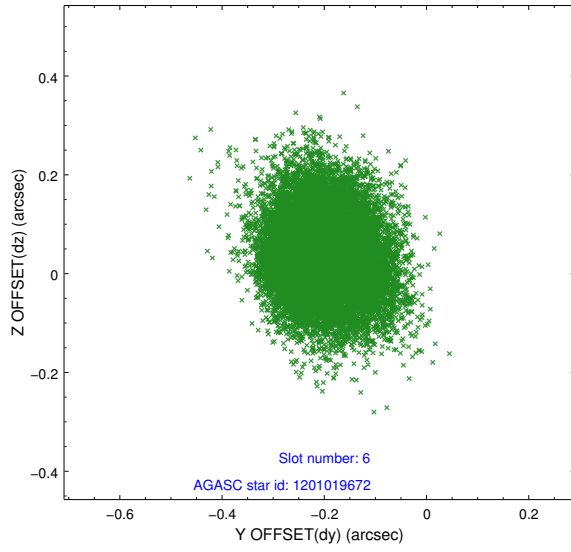
2.4.2 Slot 4



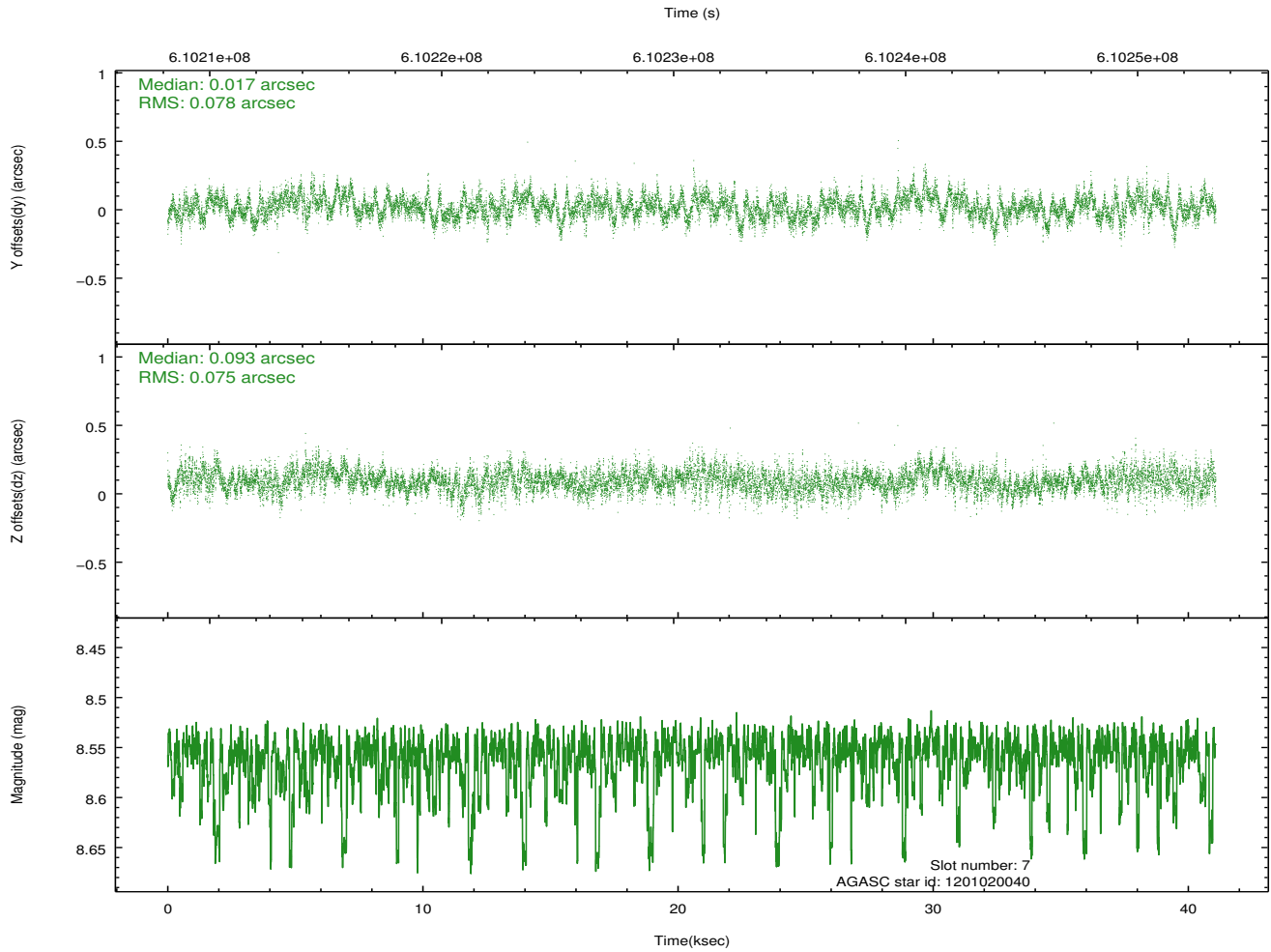
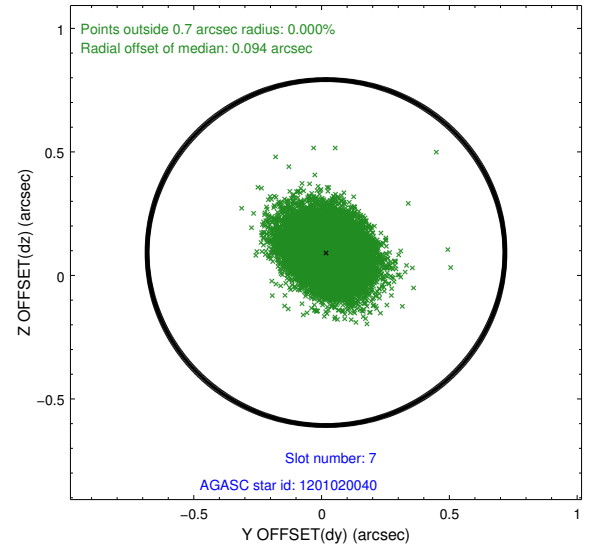
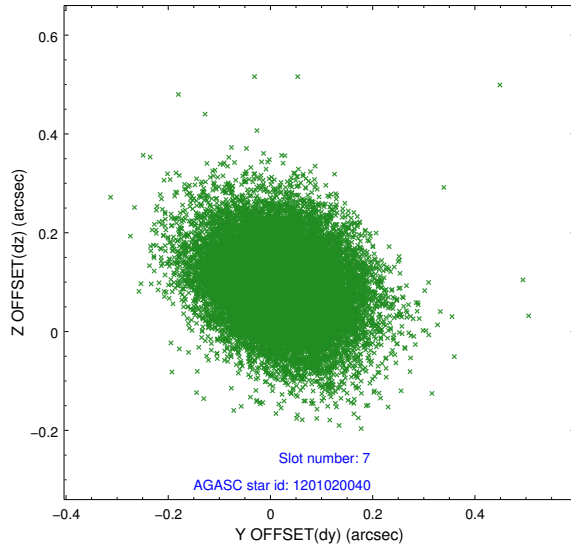
2.4.3 Slot 5



2.4.4 Slot 6

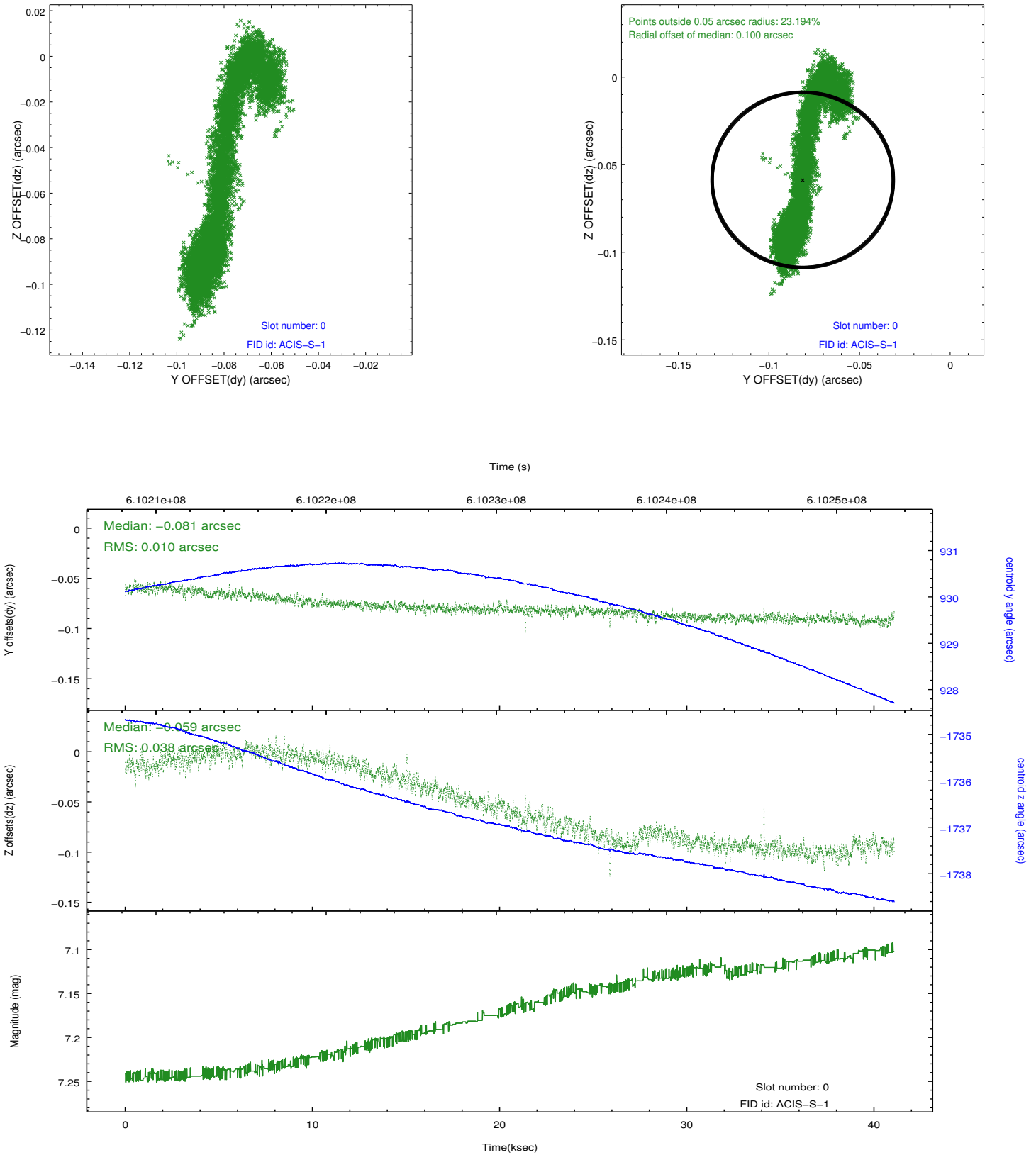


2.4.5 Slot 7

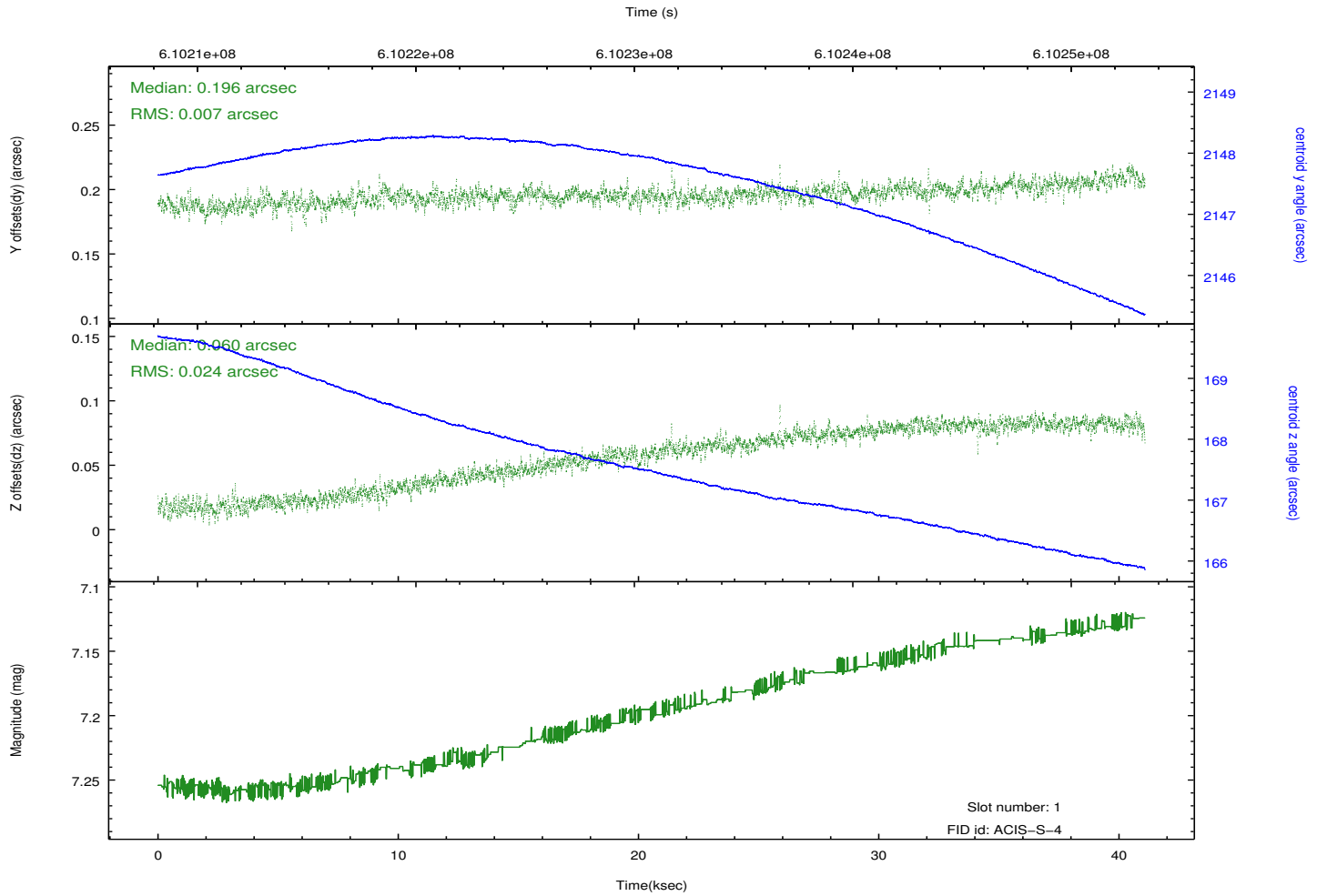
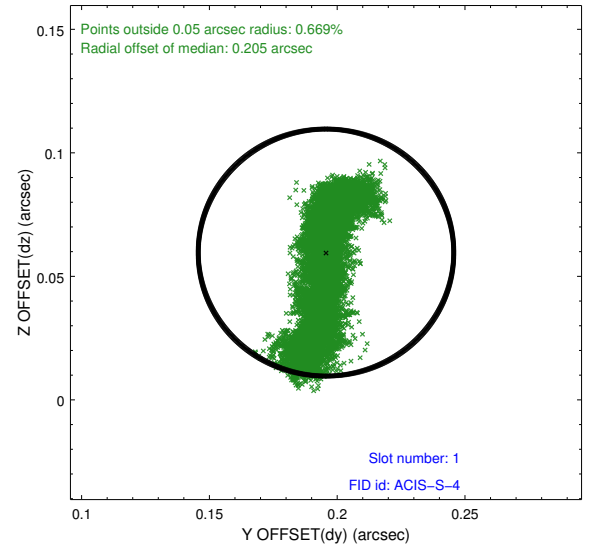
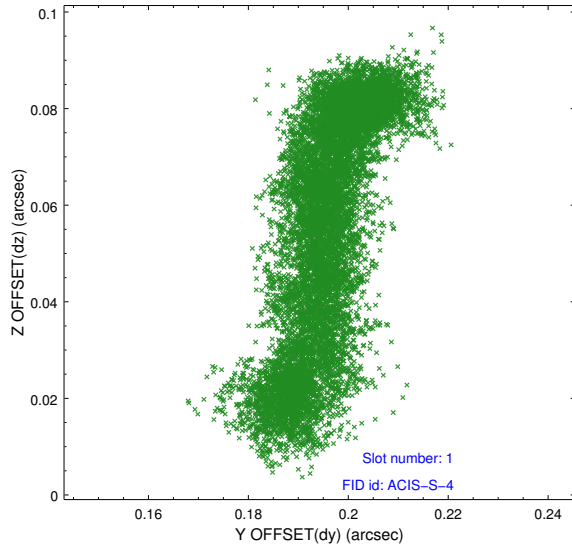


2.5 FID Slots

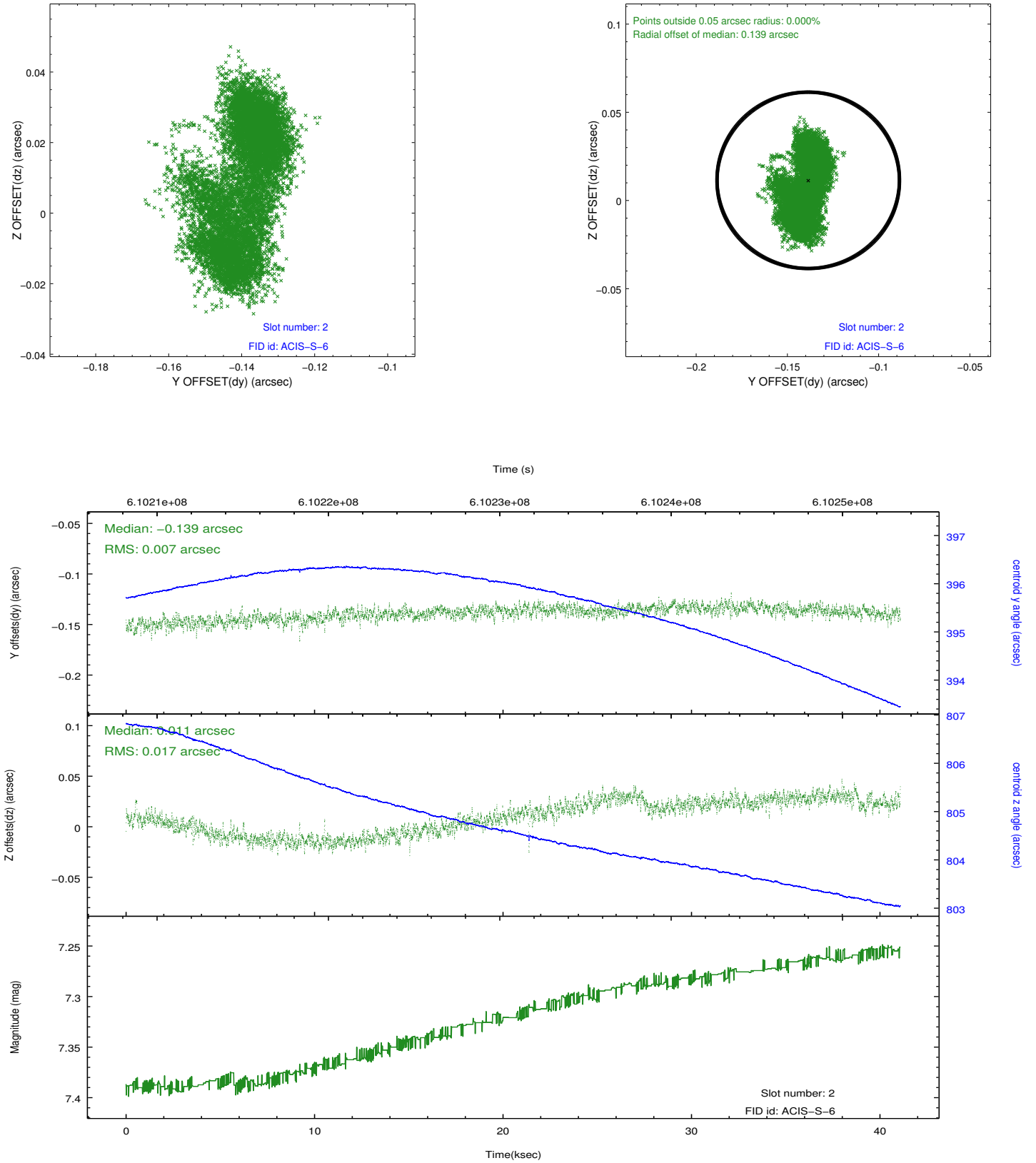
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2017.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.009900315523

A.2 Comments