

V&V Reference Report

L2 ASCDS Version : 10.4

Observation 16658 - L2 Version 1
Chandra X-Ray Center

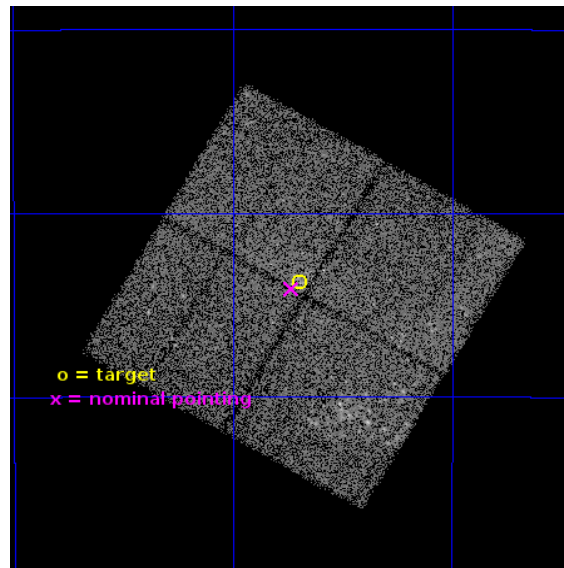
L2 Processing Date : Jul 1 2015

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1 Front

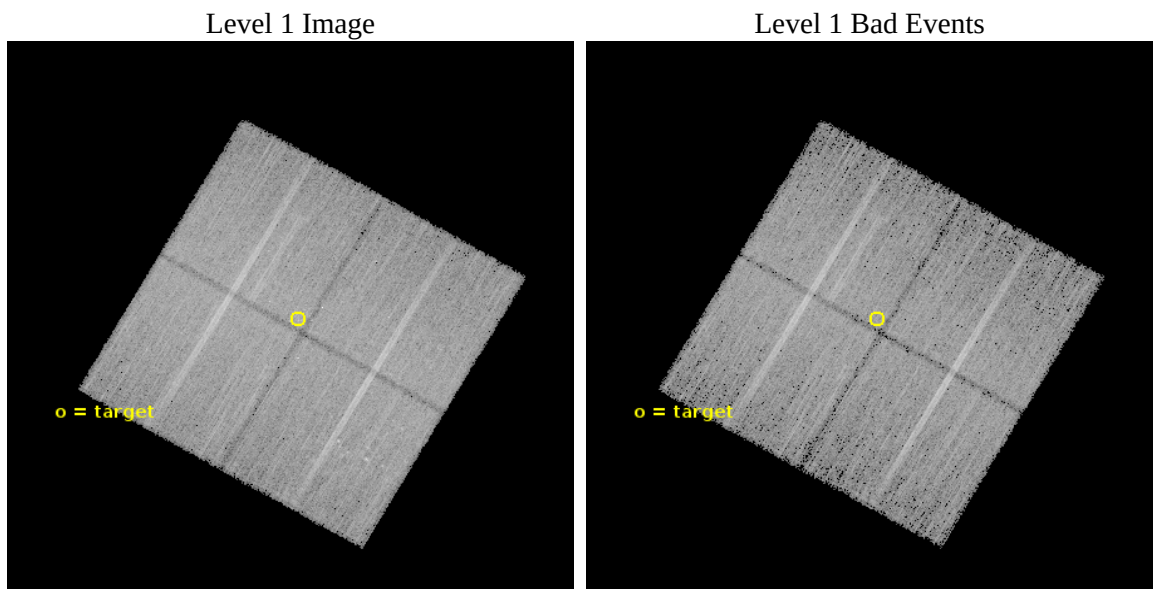
seq_num	200979	Sequence number
obs_id	16658	Observation id
title	A CHANDRA Study of the Massive Protostar IRAS16562-3959	Proposal t
observer	Dr. Peter Hofner	Principal investigator
object	IRAS 16562-3959	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	254.923333	Observer's specified target RA [deg]
dec_targ	-40.062111	Observer's specified target Dec [deg]
ra_nom	254.93326119906	Nominal RA [deg]
dec_nom	-40.068660161946	Nominal Dec [deg]
roll_nom	300.21507286315	Nominal Roll [deg]
revision	1	Processing version of data
ontime	39086.646613955	Sum of GTIs [s]
livetime	38575.950800774	Livetime [s]
ontime0	39089.664554238	Sum of GTIs [s]
ontime1	39086.564533949	Sum of GTIs [s]
ontime2	39089.746634245	Sum of GTIs [s]
ontime3	39086.646613955	Sum of GTIs [s]
l2events	83113	Number of level 2 events



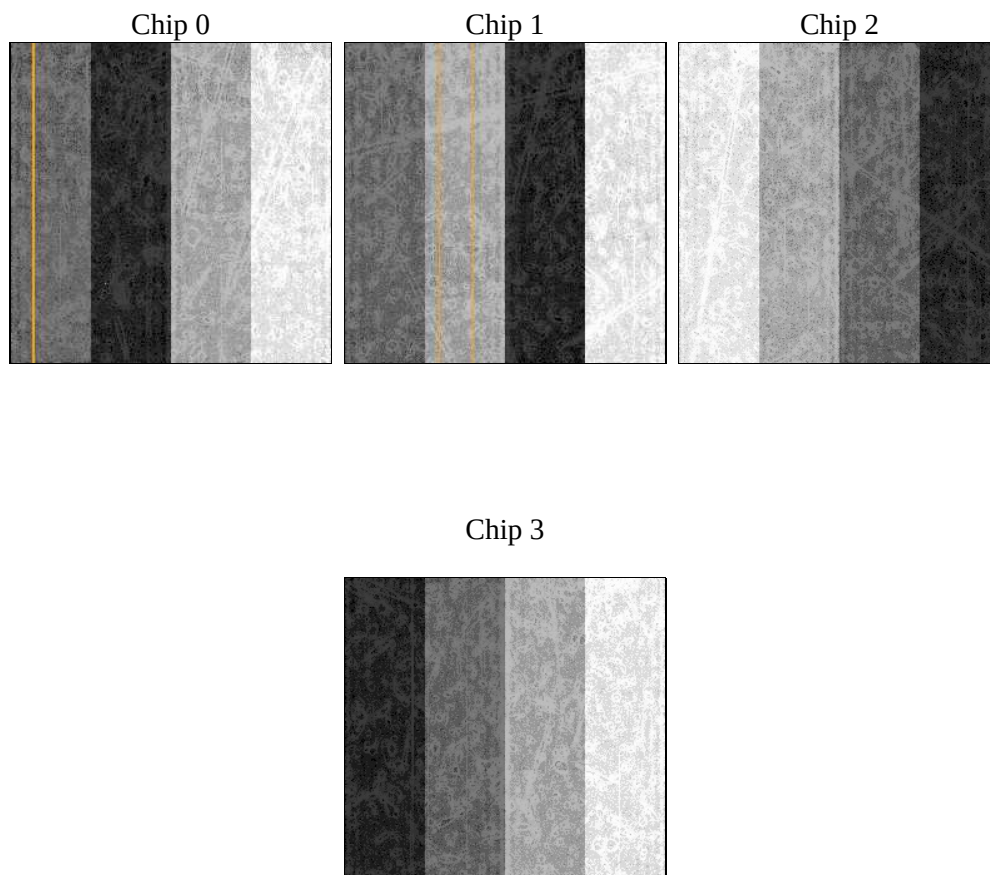
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	39000.000000	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	39086.646613955	Sum of GTIs [s]
caldsver	4.6.7	 	ontime0	39089.664554238	Sum of GTIs [s]
date	2015-07-01T06:36:31	Date and time of file creation	ontime1	39086.564533949	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	39089.746634245	Sum of GTIs [s]
			ontime3	39086.646613955	Sum of GTIs [s]
			l1events	745845	Number of level 1 events

2.1.4 Events

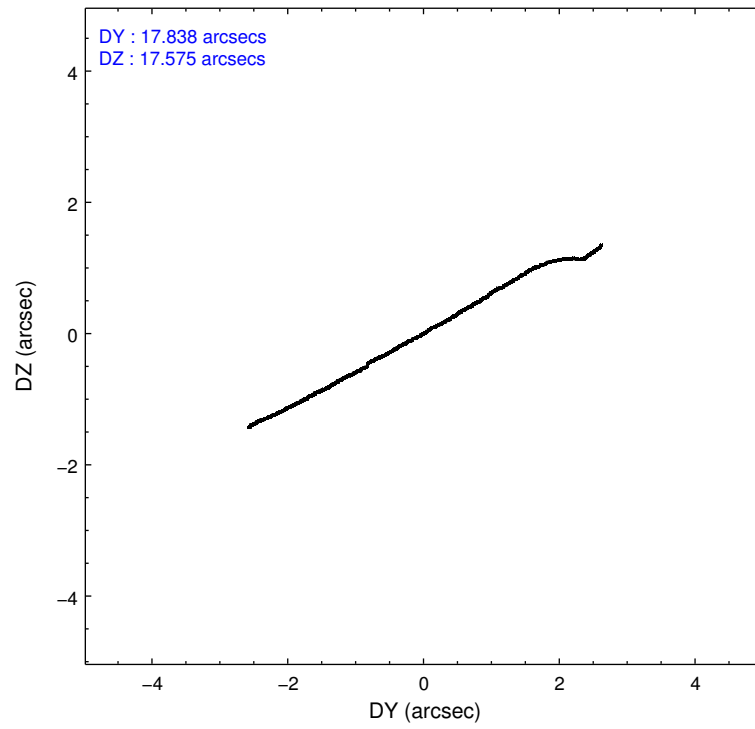
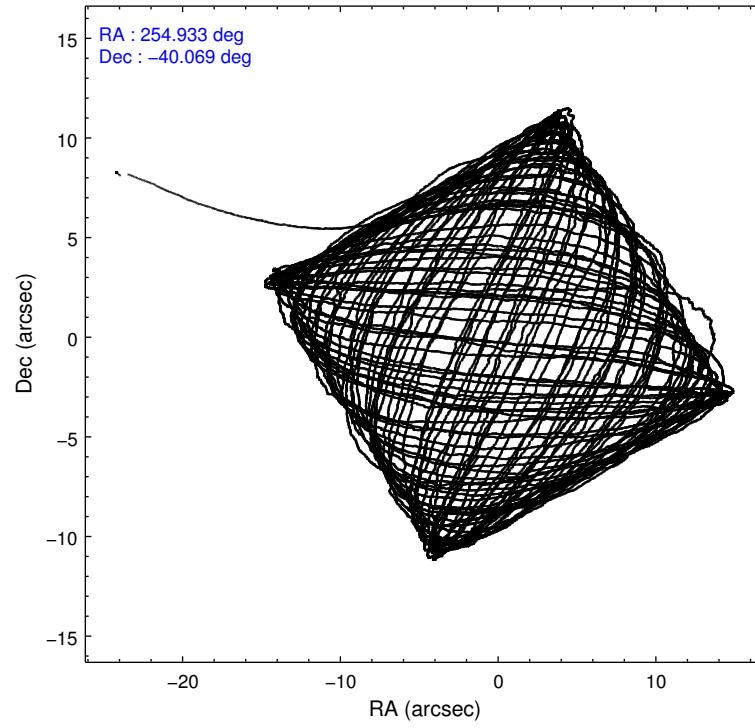
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	181006	180145	195160	189534
rejected events	153817	154110	172602	166906
rejected %	84%	85%	88%	88%

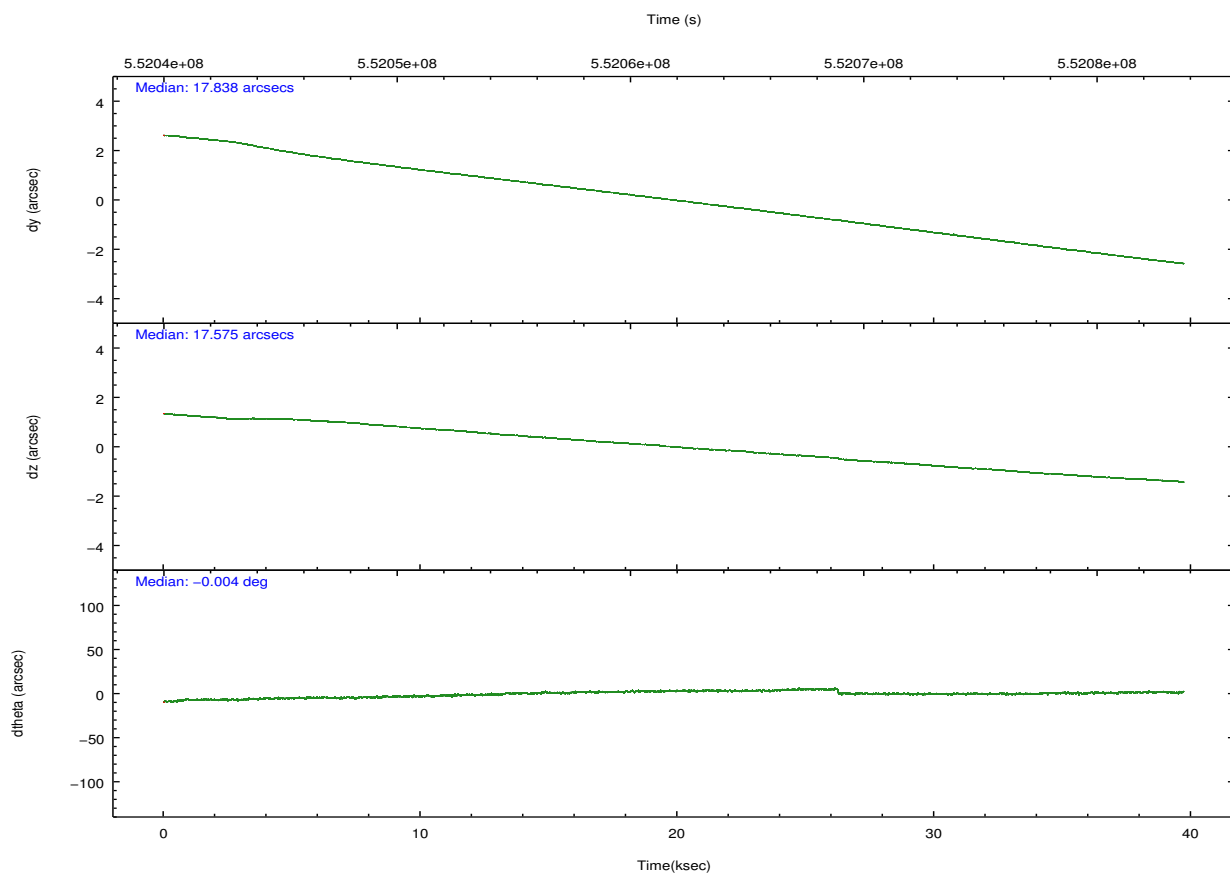
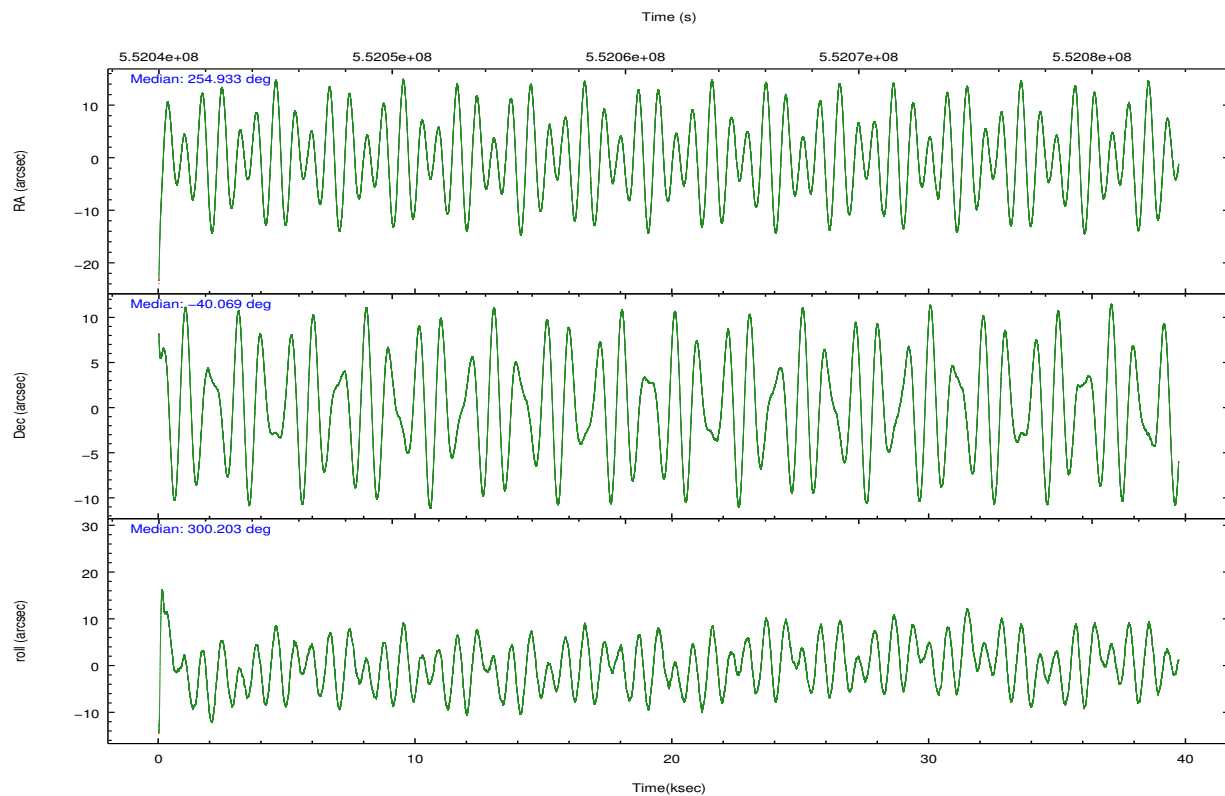
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	11344	9728	8074	8575
	6%	5%	4%	4%
grade 1 events	102	88	119	117
	0%	0%	0%	0%
grade 2 events	6107	6041	5431	4865
	3%	3%	2%	2%
grade 3 events	2531	2317	2275	2312
	1%	1%	1%	1%
grade 4 events	2267	2382	2337	2317
	1%	1%	1%	1%
grade 5 events	8913	9475	8692	10150
	4%	5%	4%	5%
grade 6 events	4944	5570	4444	4559
	2%	3%	2%	2%
grade 7 events	144798	144544	163788	156639
	79%	80%	83%	82%

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	254.901901	254.9332611990618	Subarray requested	NONE	NONE
[deg] Pointing Dec	-40.055022	-40.06866016194576	Alternating exposures requested	N	N
[deg] Pointing Roll	299.986203	300.2150728631475	[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)	552042719.184000	552040663.38702			
Observation start date	2015-06-30T09:10:52	2015-06-30T08:37:43			
[s] Observation end time (MET)	552081719.184000	552082017.52687			
Observation end date	2015-06-30T20:00:52	2015-06-30T20:06:57			
Read mode	TIMED	TIMED			

2.3 Aspect



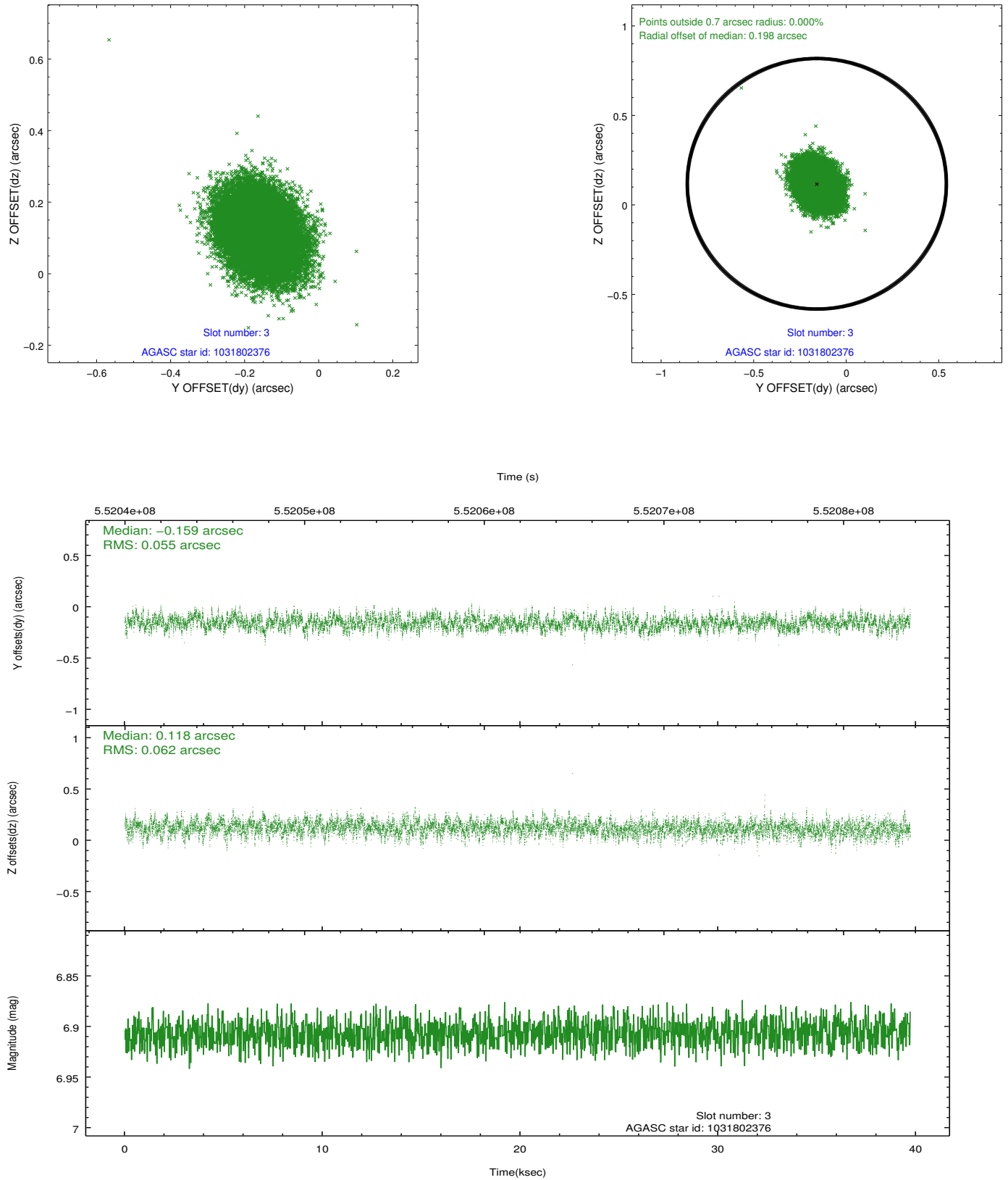


Slot Statistics

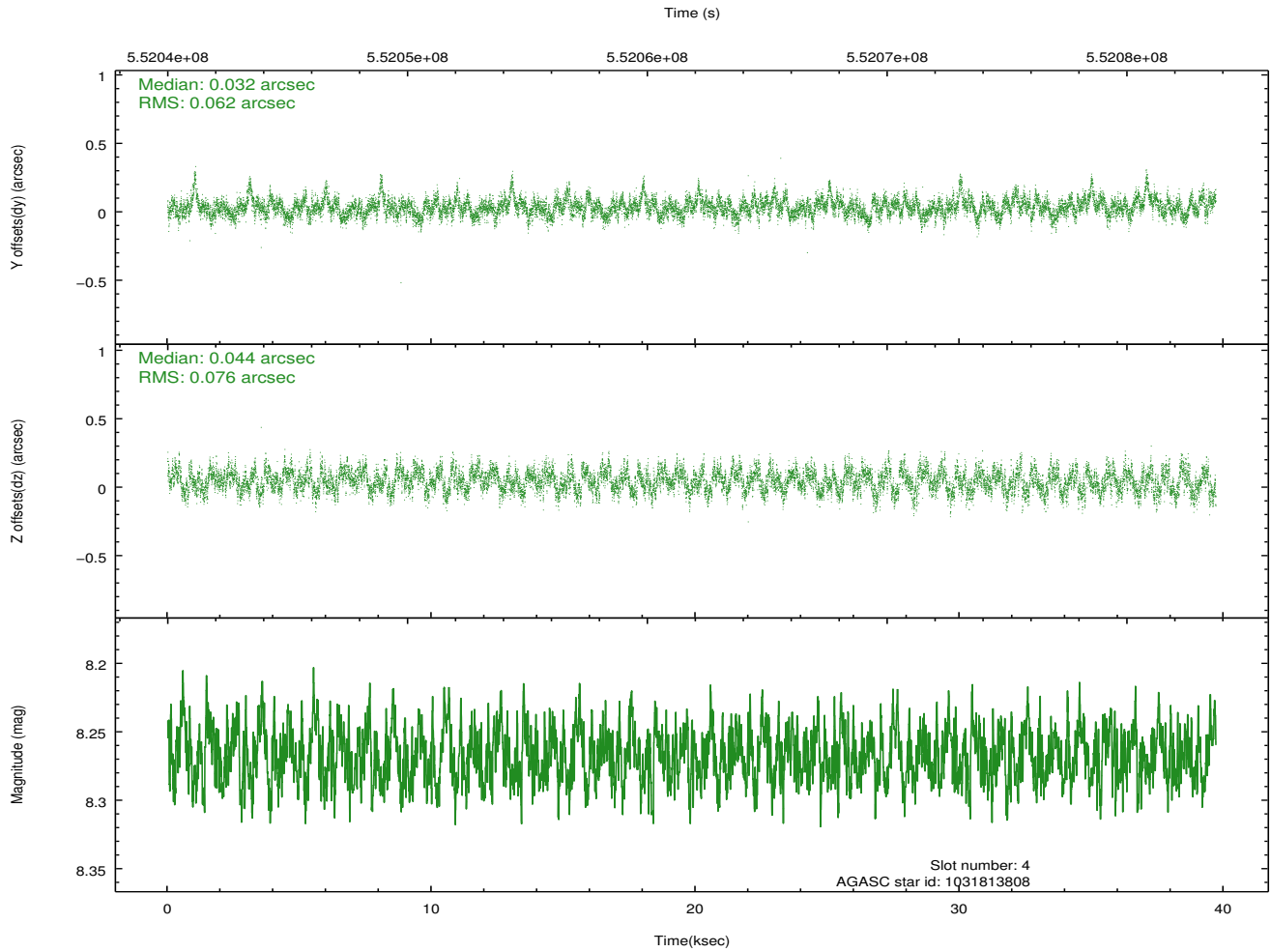
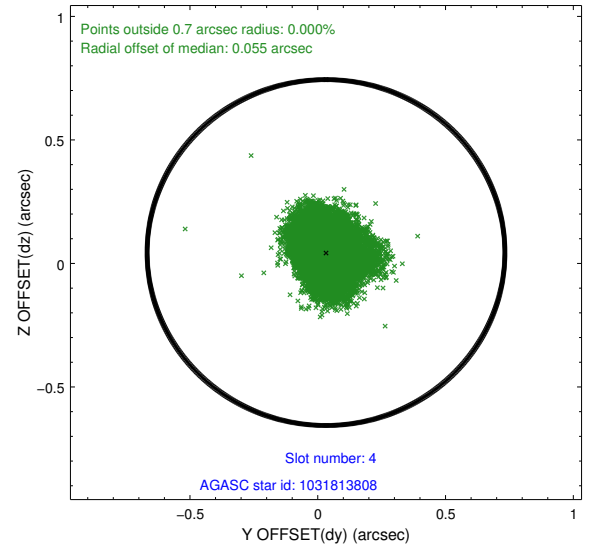
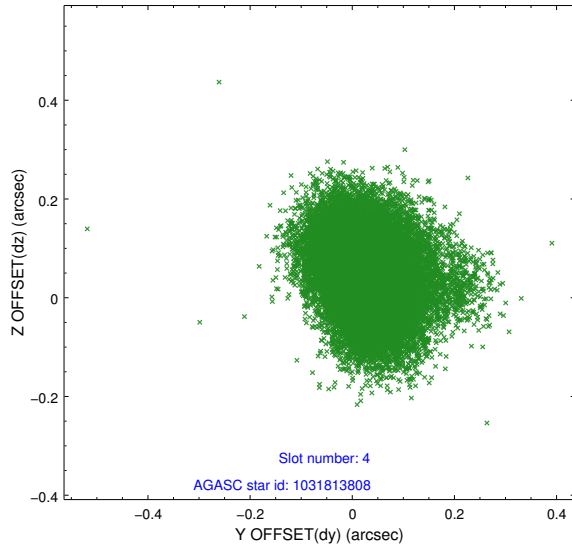
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.13	9684	-0.029	-0.038	0.057	0.077	0.000000	0.000000	921.55	-841.25
1	FID		ACIS-I-4	7.08	9685	0.325	0.065	0.046	0.086	0.000000	0.000000	2141.89	1058.71
2	FID		ACIS-I-5	7.11	9685	-0.393	0.043	0.036	0.066	0.000000	0.000000	-1826.85	1056.43
3	GUIDE	used	1031802376	6.91	19369	-0.159	0.118	0.089	0.145	254.526844	-40.352616	415.82	-1427.24
4	GUIDE	used	1031813808	8.27	19357	0.032	0.044	0.106	0.170	254.789150	-40.300097	610.32	-708.84
5	GUIDE	used	1031934544	9.16	19360	0.054	-0.004	0.132	0.228	255.278125	-39.381282	-1575.61	2117.82
6	GUIDE	used	1031941416	8.81	19359	-0.067	-0.033	0.102	0.166	255.523073	-39.962861	574.47	1648.05
7	GUIDE	used	1031810336	9.49	19344	0.140	-0.134	0.155	0.249	254.485442	-40.352443	359.67	-1525.81

2.4 Star Slots

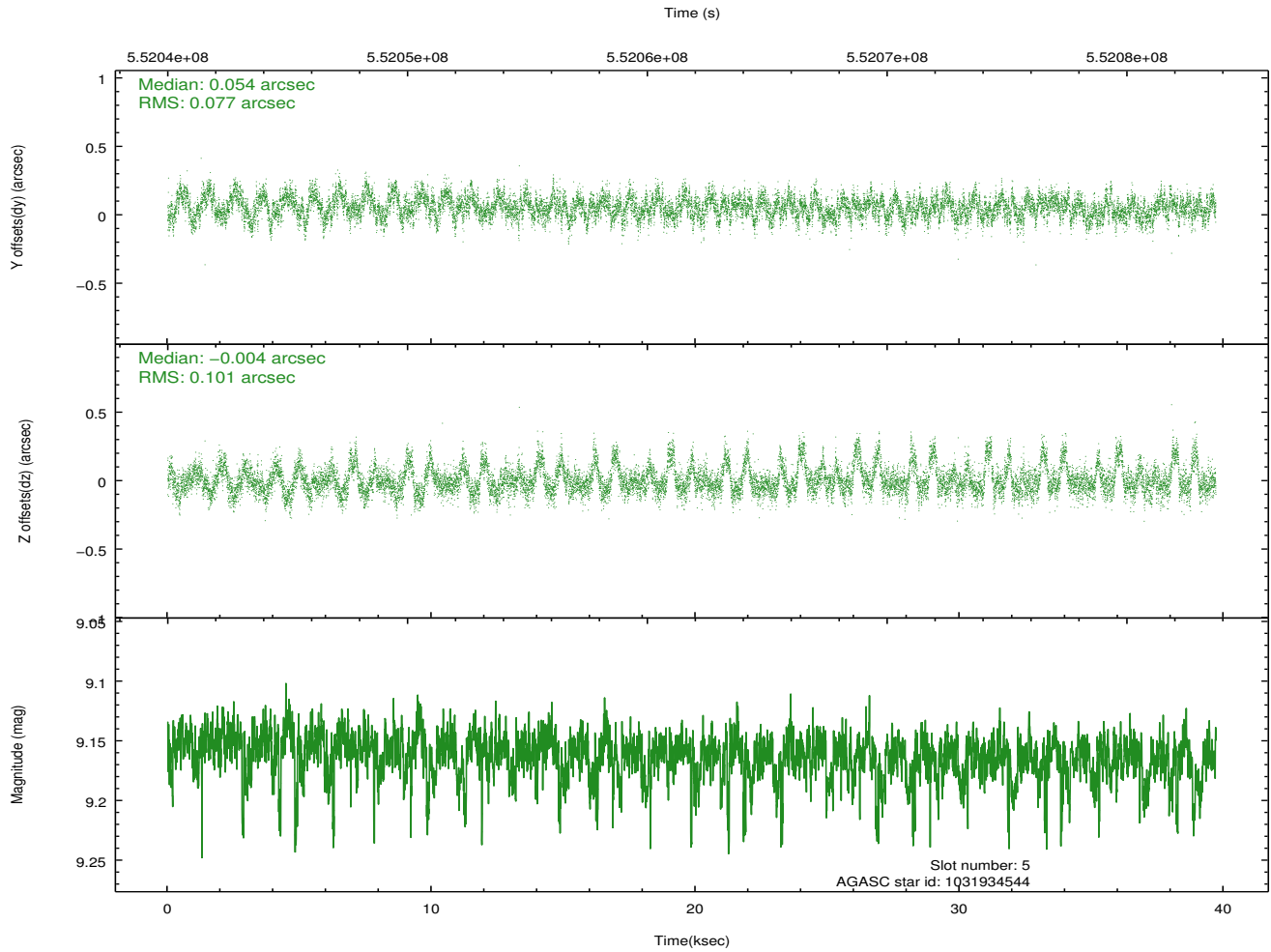
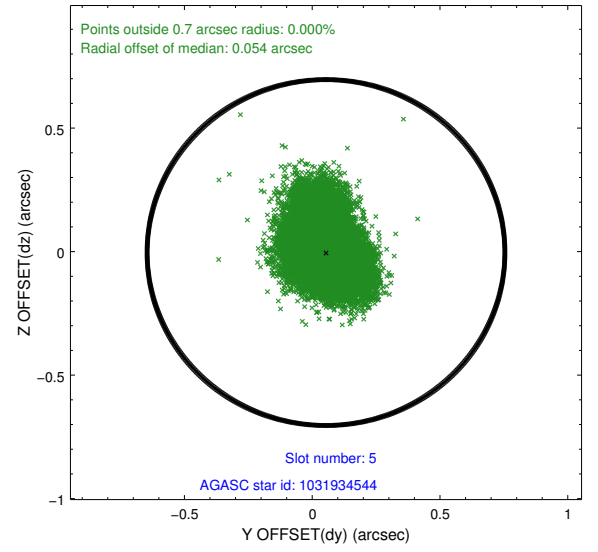
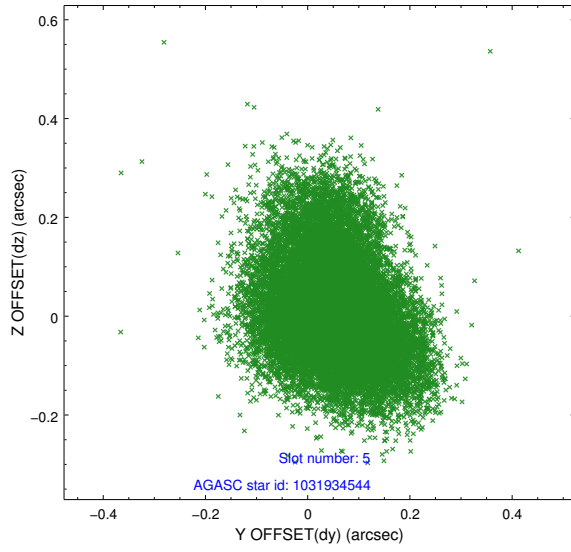
2.4.1 Slot 3



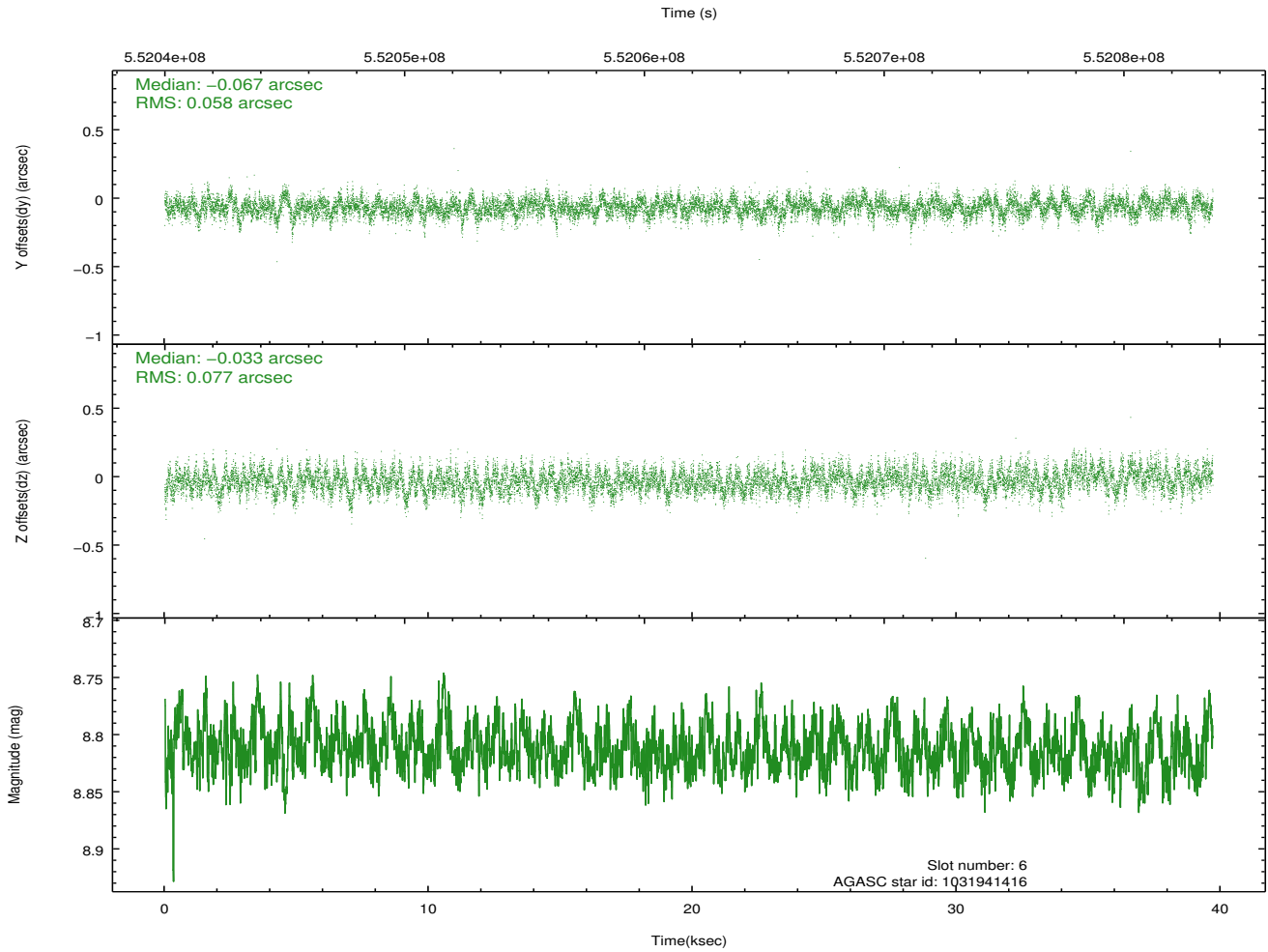
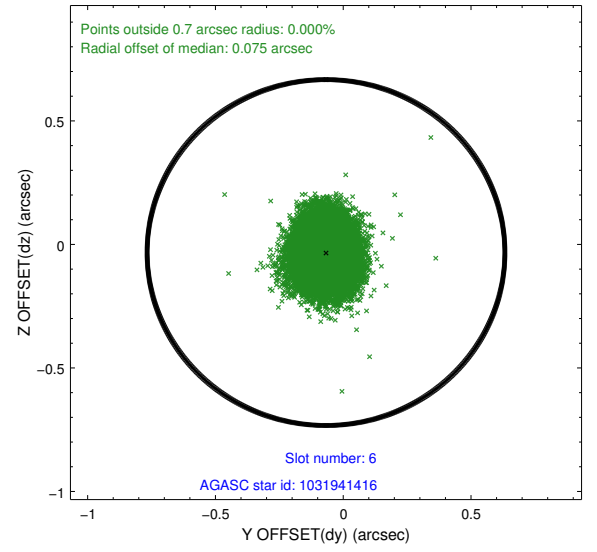
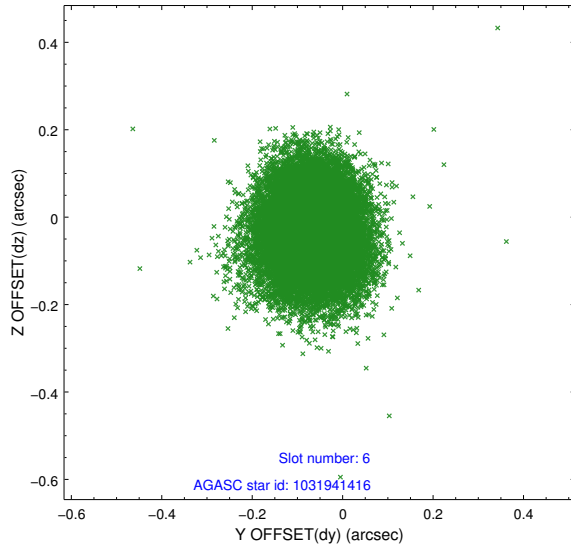
2.4.2 Slot 4



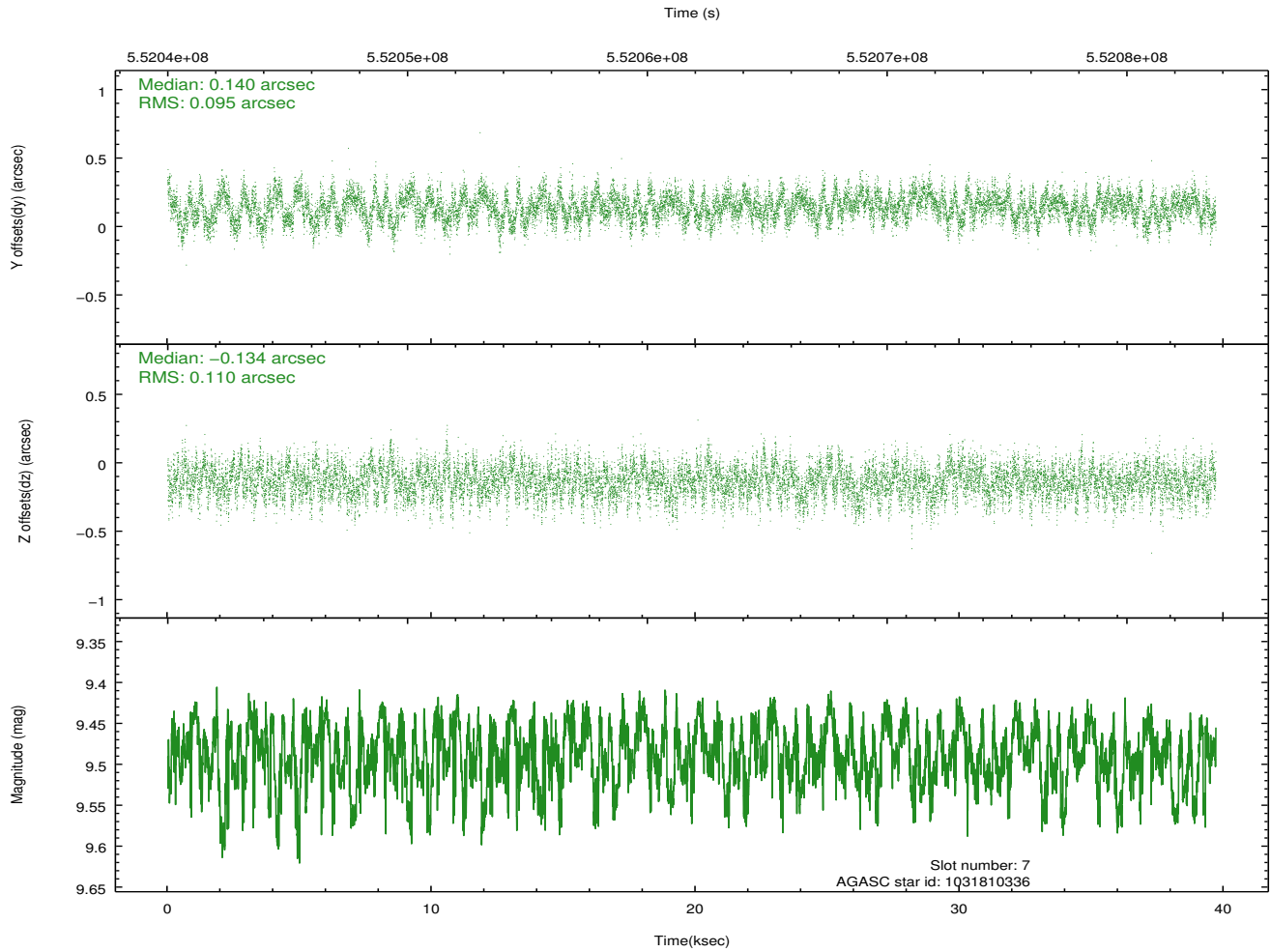
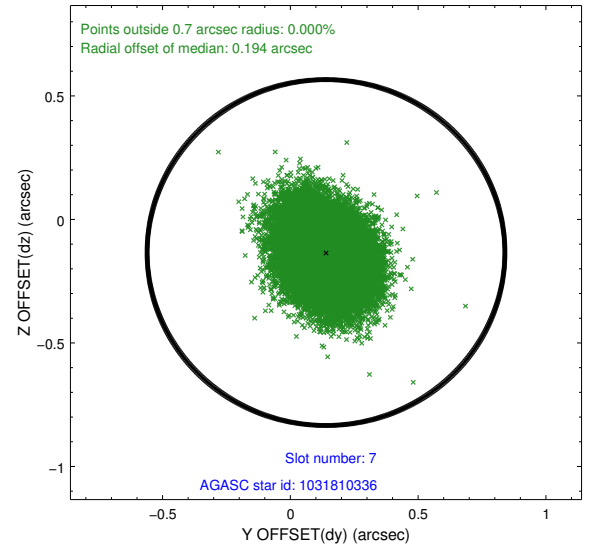
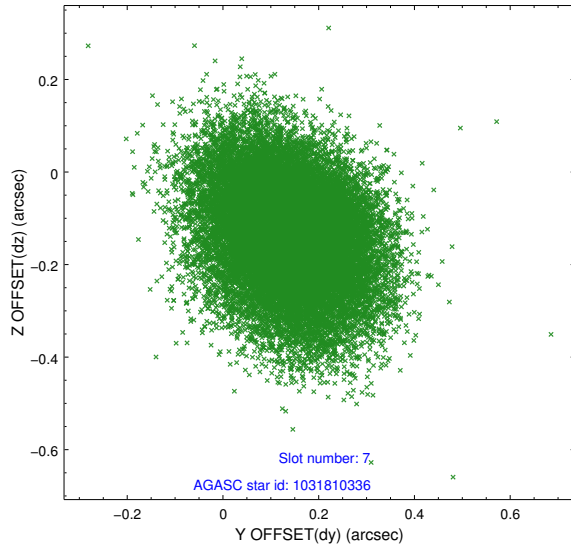
2.4.3 Slot 5



2.4.4 Slot 6

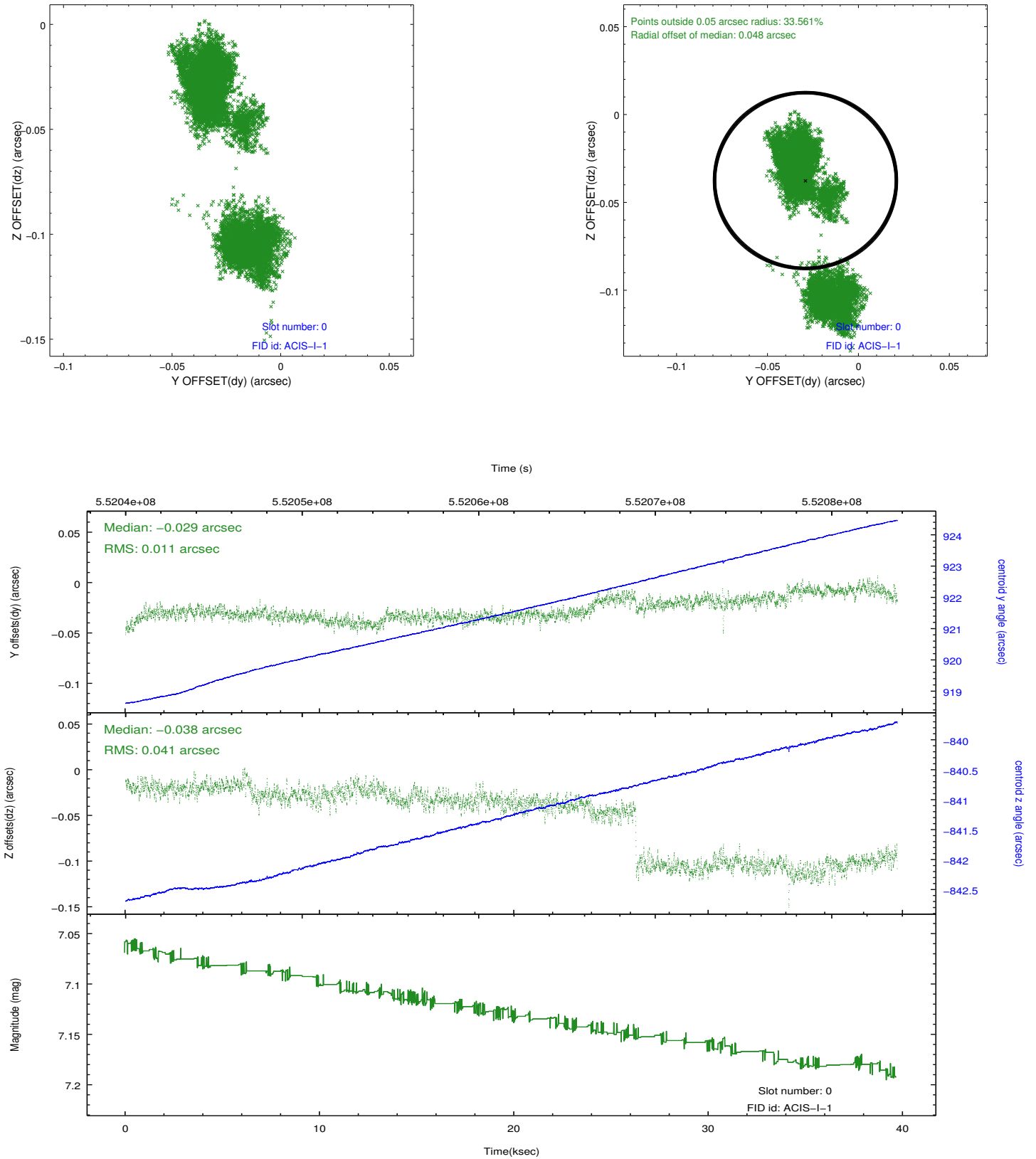


2.4.5 Slot 7

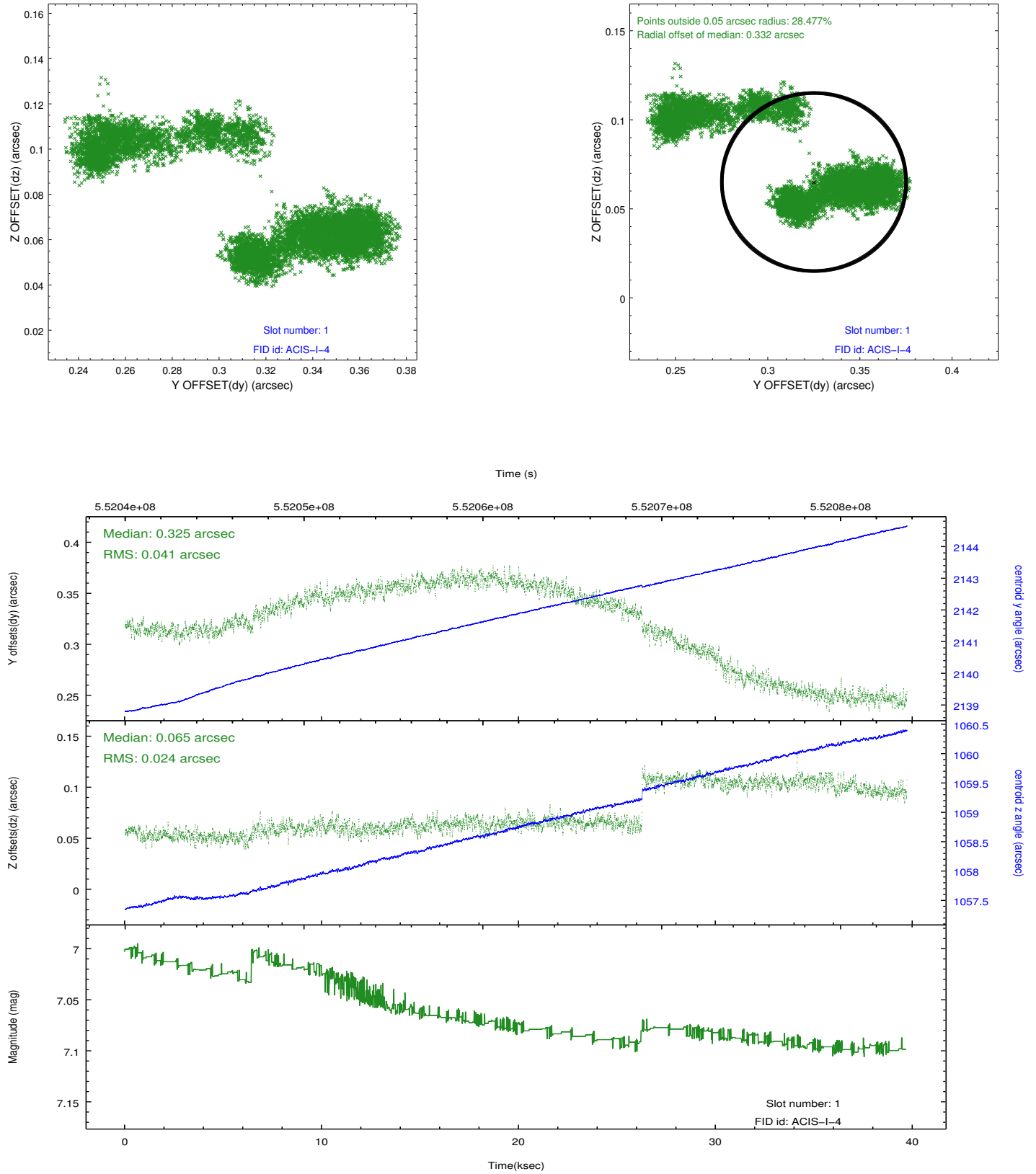


2.5 FID Slots

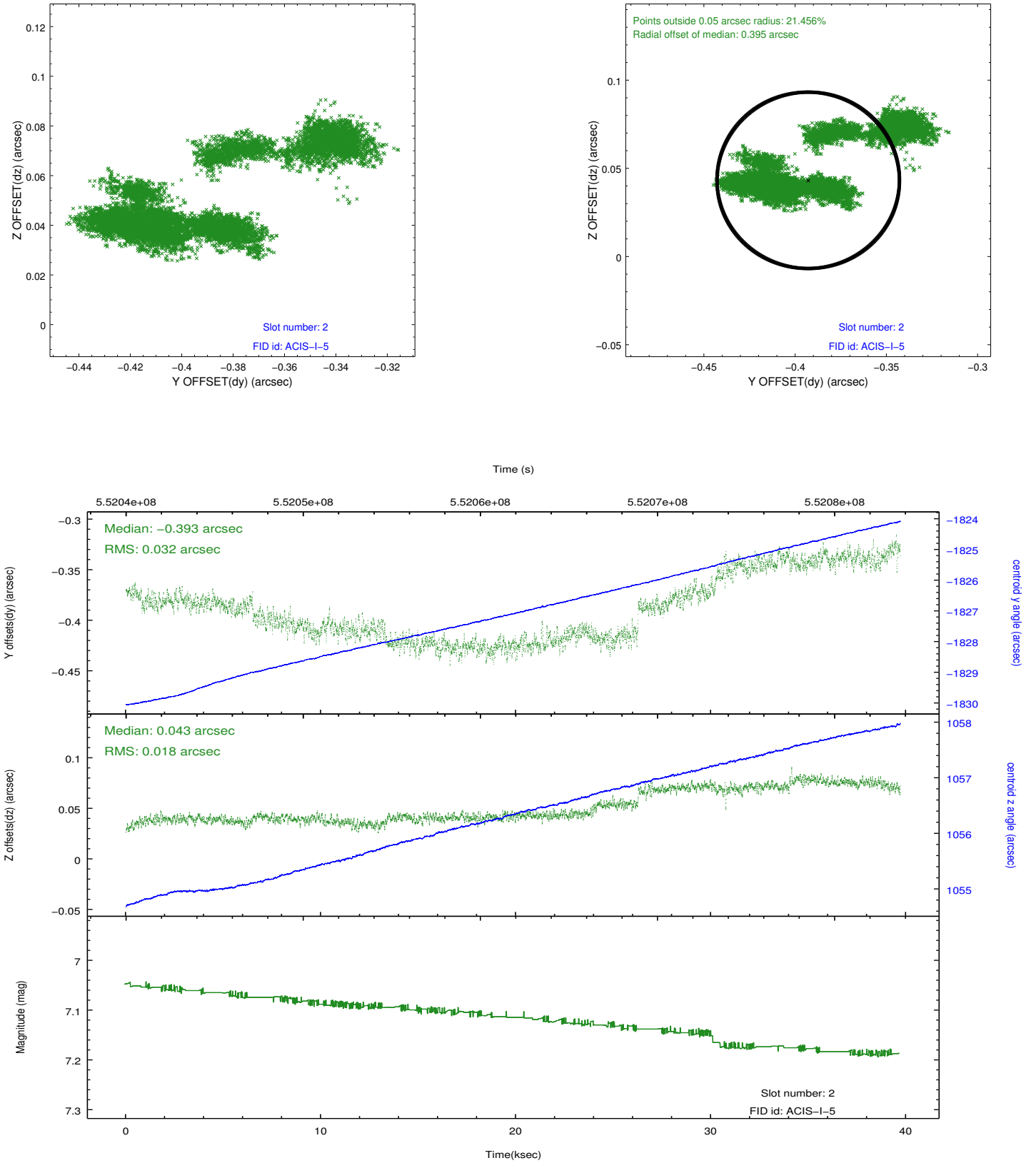
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.07.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.086646613955

A.2 Comments

There is a shift by one pixel in the slot 1 fid data at around 552068268 that shows up as a 0.04 arcsec discontinuity in the fid dz residuals. This is acceptable for Aspect.