

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18792 - L2 Version 2
Chandra X-Ray Center

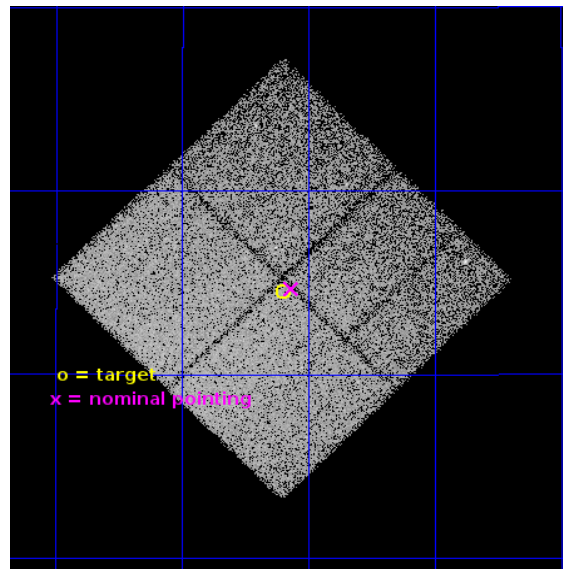
L2 Processing Date : Mar 14 2016

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1 Front

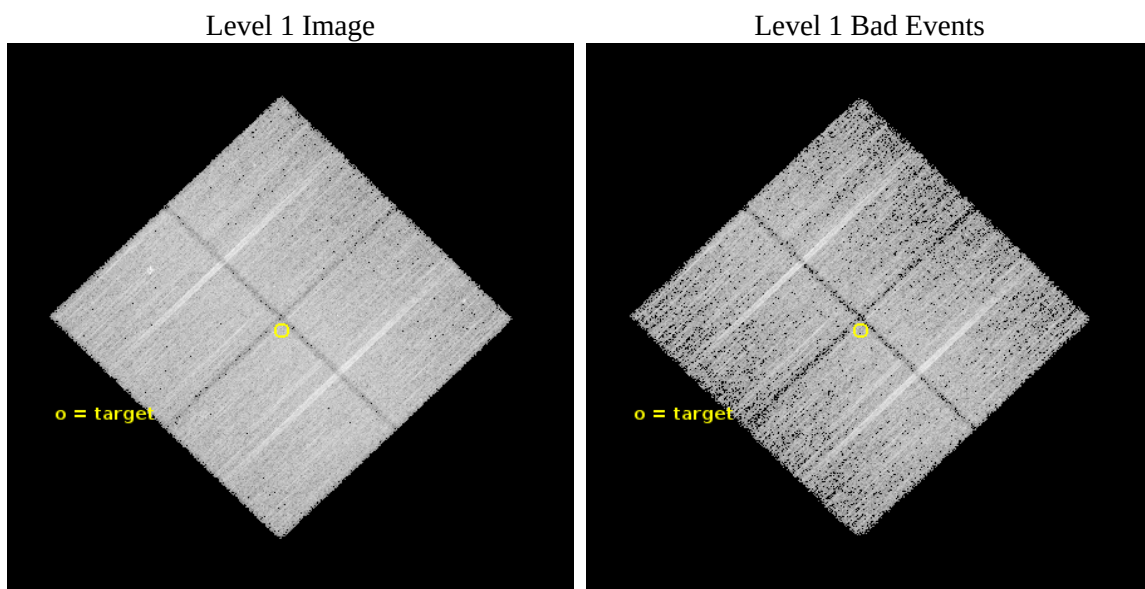
seq_num	801595	Sequence number
obs_id	18792	Observation id
title	Probing ICM on mean free path scales	Proposal title
observer	Dr Irina Zhuravleva	Principal investigator
object	Coma cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.649583	Observer's specified target RA [deg]
dec_targ	28.074806	Observer's specified target Dec [deg]
ra_nom	194.64202481359	Nominal RA [deg]
dec_nom	28.077718038452	Nominal Dec [deg]
roll_nom	135.21223601677	Nominal Roll [deg]
revision	2	Processing version of data
ontime	21532.600165725	Sum of GTIs [s]
livetime	21251.26089249	Livetime [s]
ontime0	21532.600165725	Sum of GTIs [s]
ontime1	21532.600165725	Sum of GTIs [s]
ontime2	21526.318085194	Sum of GTIs [s]
ontime3	21532.600165725	Sum of GTIs [s]
l2events	112828	Number of level 2 events



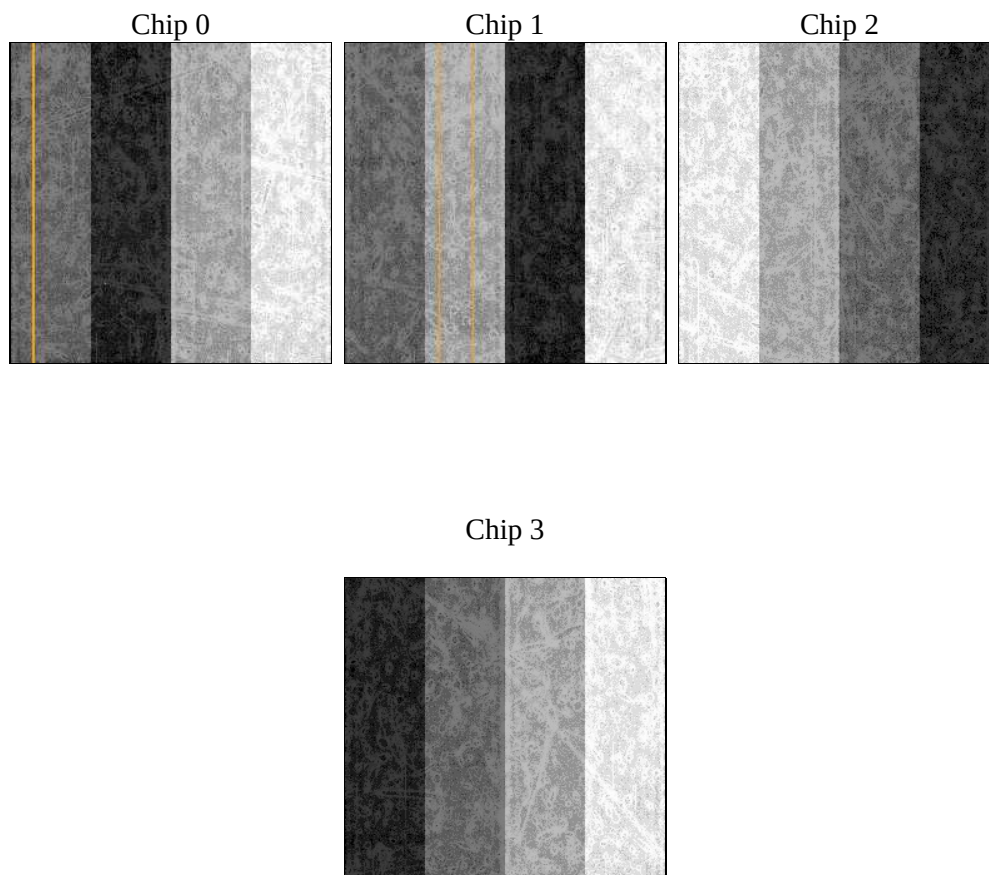
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21456.854000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	21532.600165725	Sum of GTIs [s]
caldsver	4.7.0	 	ontime0	21532.600165725	Sum of GTIs [s]
date	2016-03-14T14:33:41	Date and time of file creation	ontime1	21532.600165725	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	21526.318085194	Sum of GTIs [s]
			ontime3	21532.600165725	Sum of GTIs [s]
			l1events	576162	Number of level 1 events

2.1.4 Events

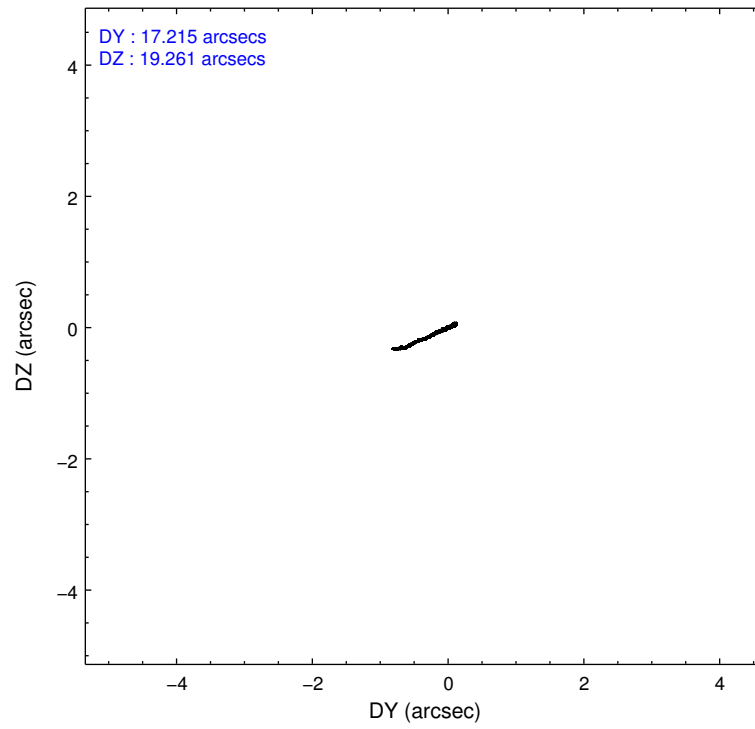
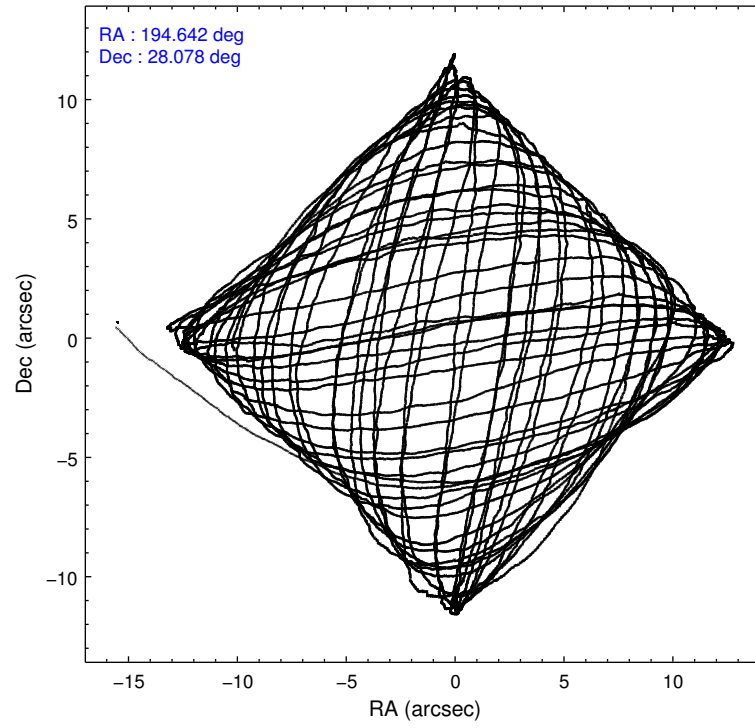
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	130400	151471	142596	151695
rejected events	107163	110380	117974	114452
rejected %	82%	72%	82%	75%

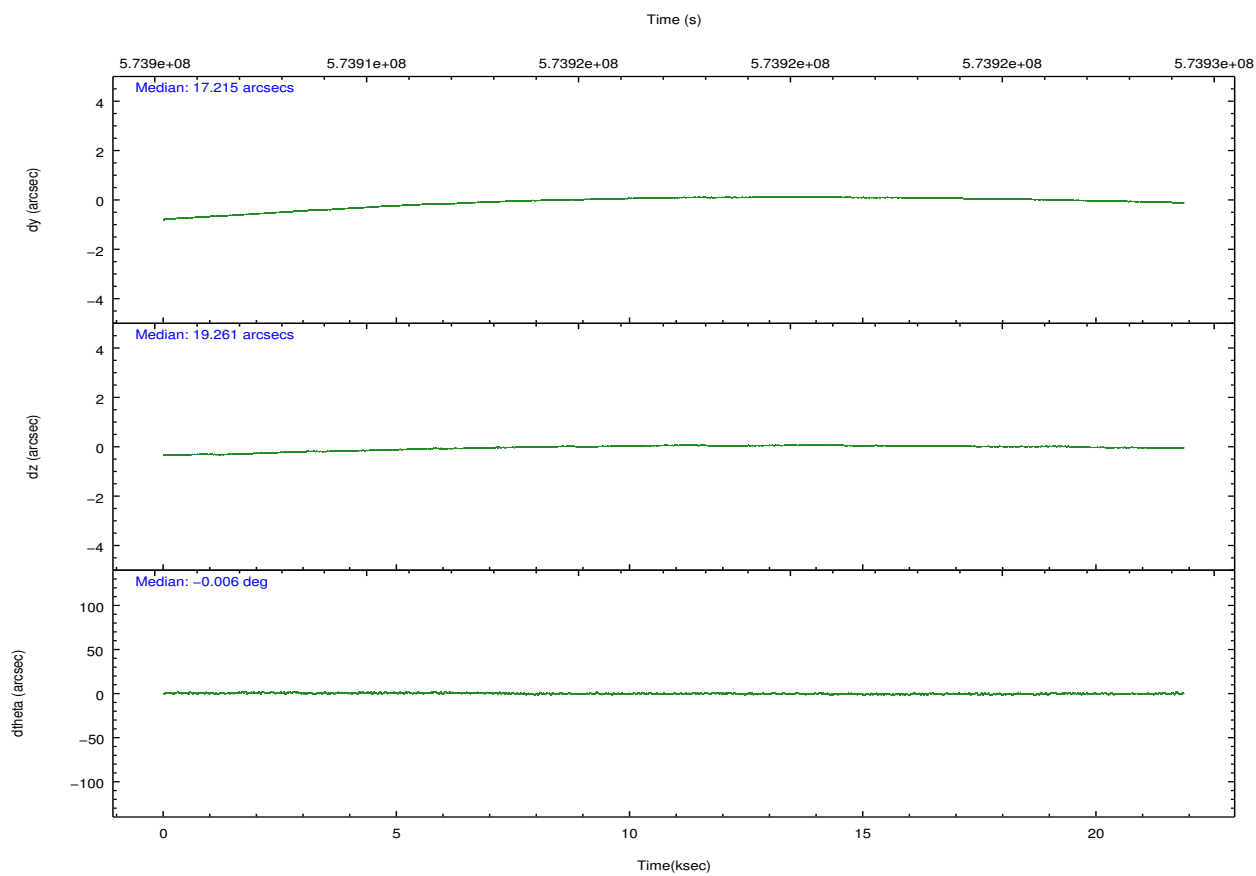
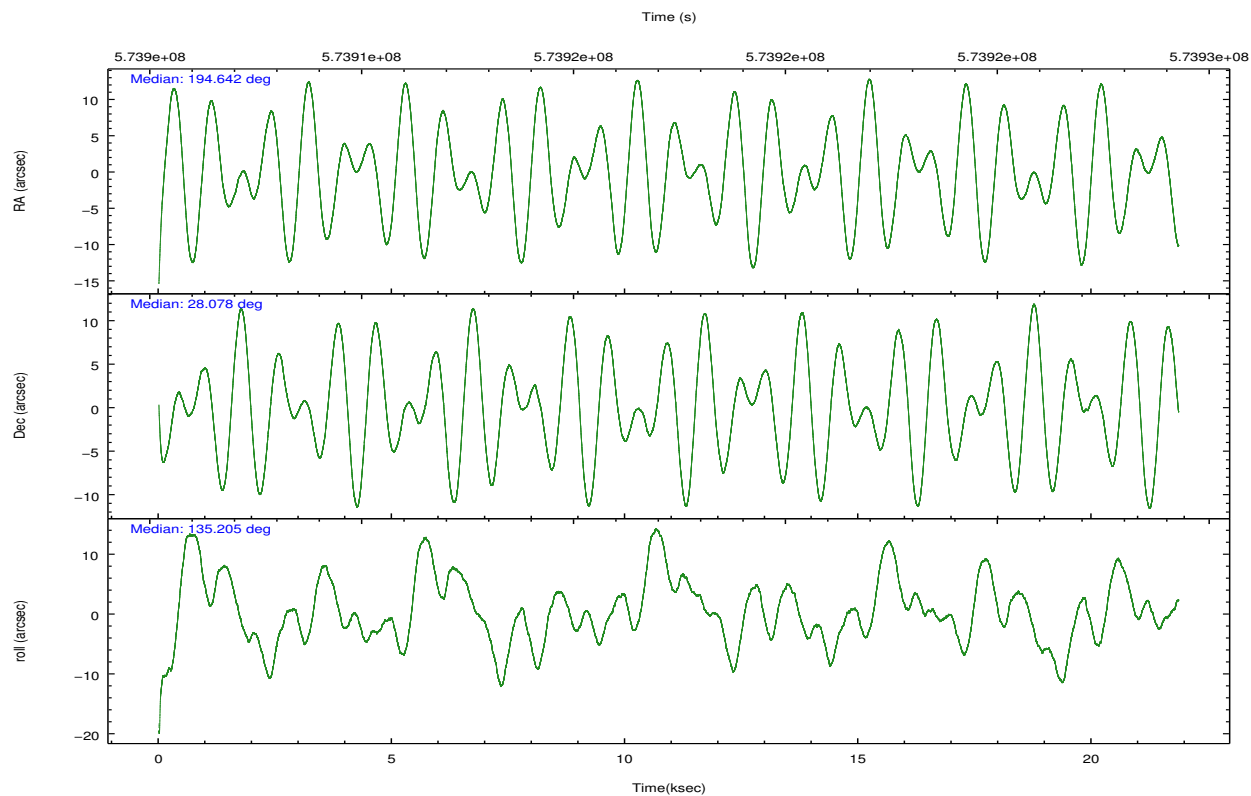
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	11810	24787	13242	23234
	9%	16%	9%	15%
grade 1 events	88	156	104	158
	0%	0%	0%	0%
grade 2 events	4598	7018	4522	5730
	3%	4%	3%	3%
grade 3 events	1841	2382	1857	2278
	1%	1%	1%	1%
grade 4 events	1629	2408	1842	2285
	1%	1%	1%	1%
grade 5 events	5779	6071	5423	6617
	4%	4%	3%	4%
grade 6 events	3363	4511	3164	3730
	2%	2%	2%	2%
grade 7 events	101292	104138	112442	107663
	77%	68%	78%	70%

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	194.672297	194.6420248135898	Subarray requested	NONE	NONE
[deg] Pointing Dec	28.070769	28.07771803845188	Alternating exposures requested	N	N
[deg] Pointing Roll	134.989303	135.2122360167695	[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)	573906729.184000	573905729.08658			
Observation start date	2016-03-09T10:31:01	2016-03-09T10:15:29			
[s] Observation end time (MET)	573928186.184000	573928418.48787			
Observation end date	2016-03-09T16:28:38	2016-03-09T16:33:38			
Read mode	TIMED	TIMED			

2.3 Aspect



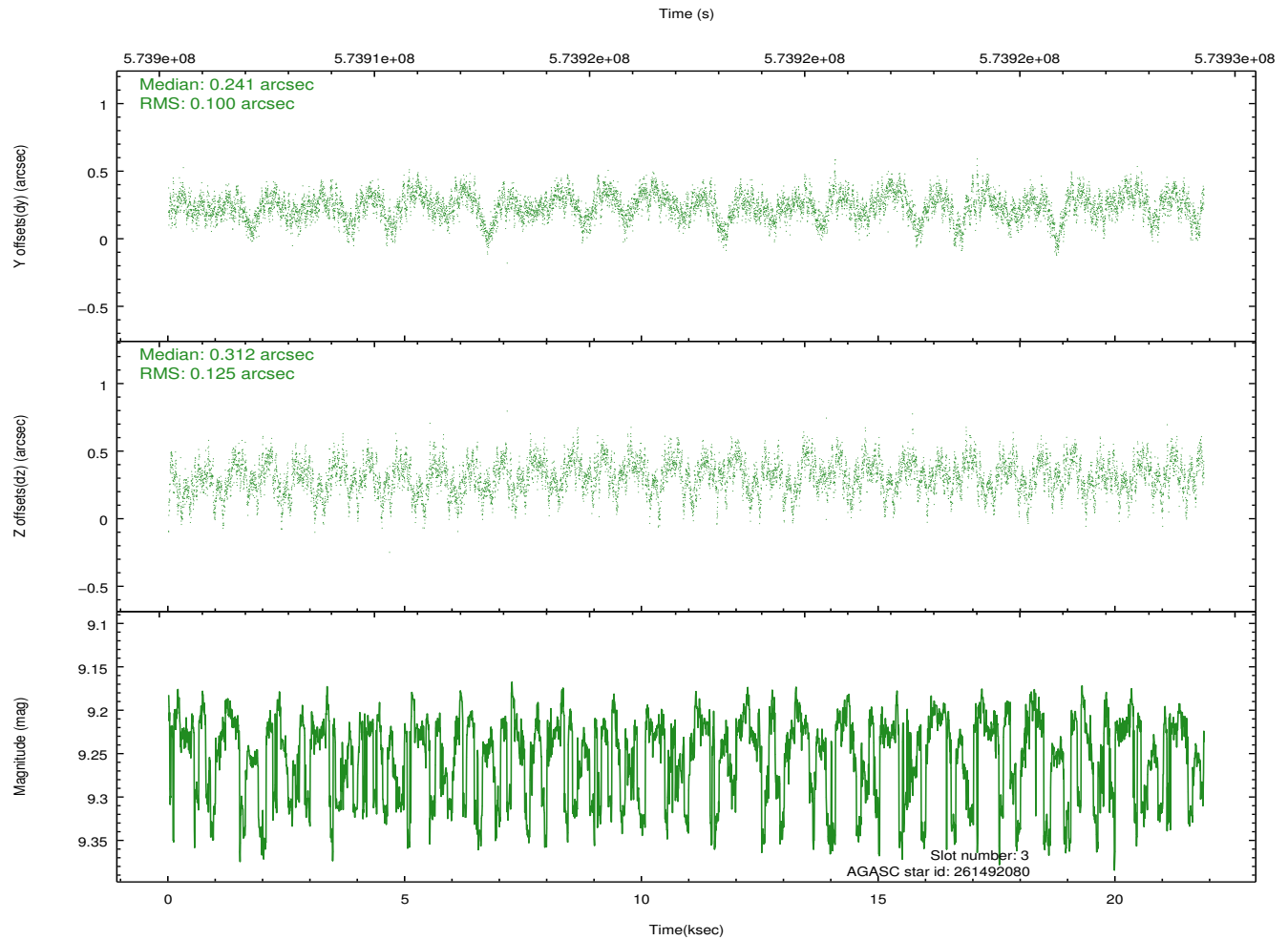
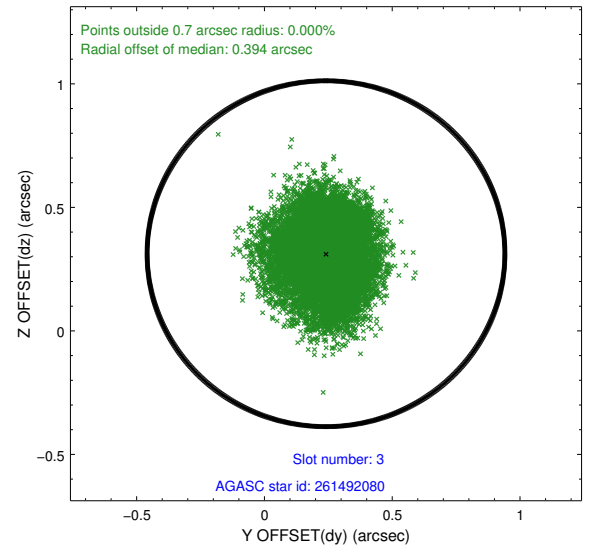
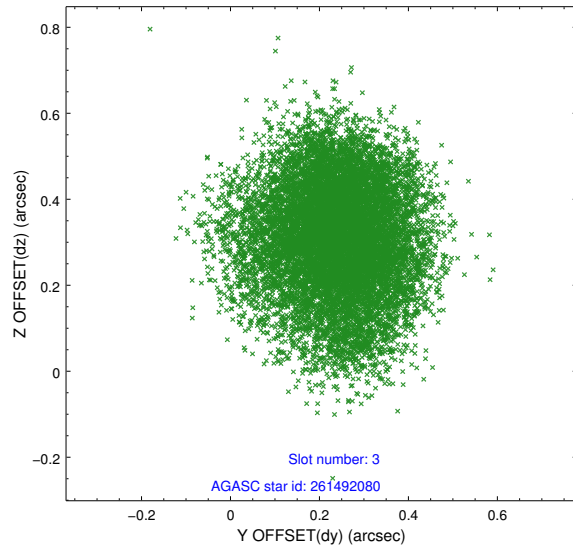


Slot Statistics

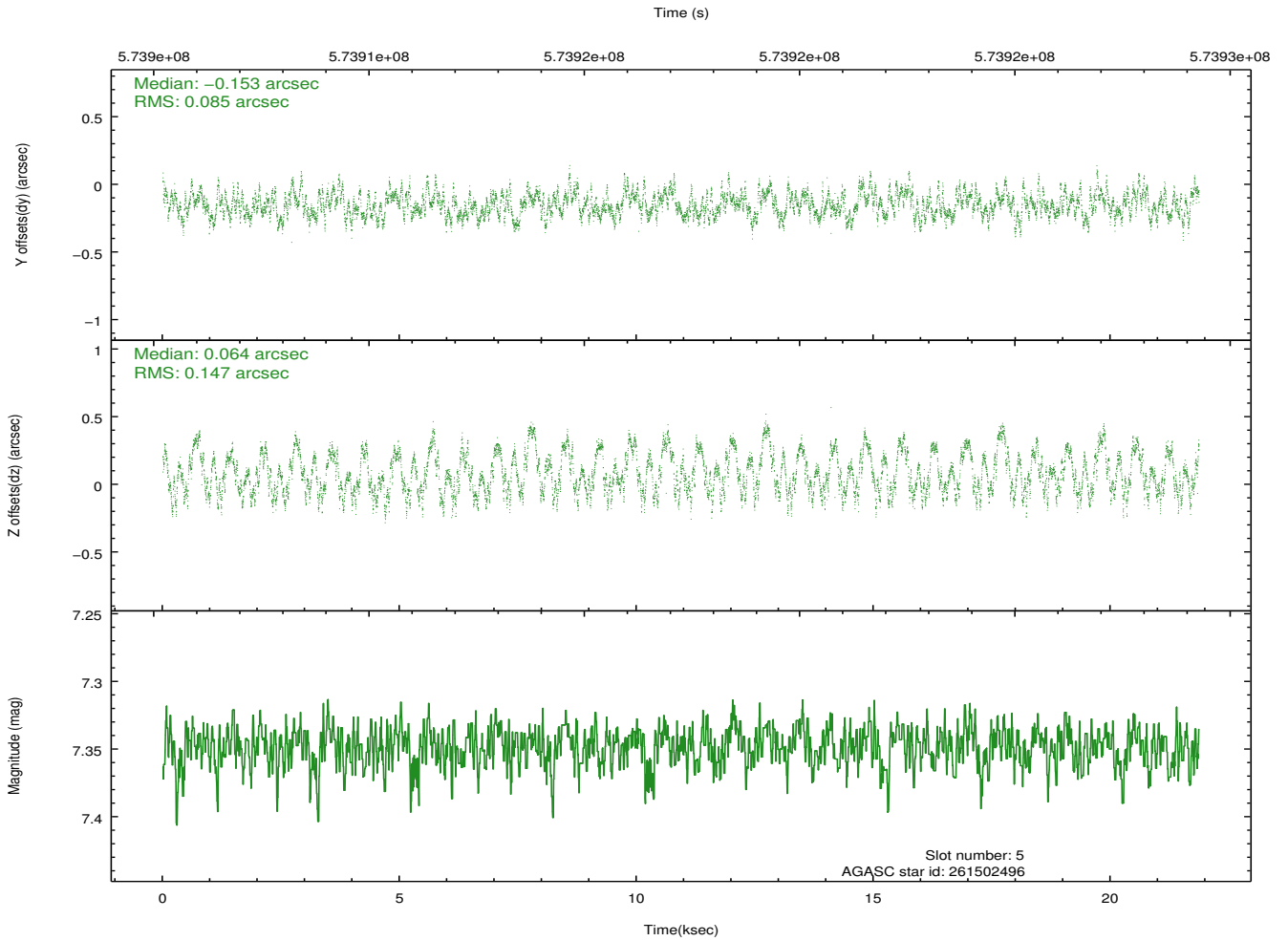
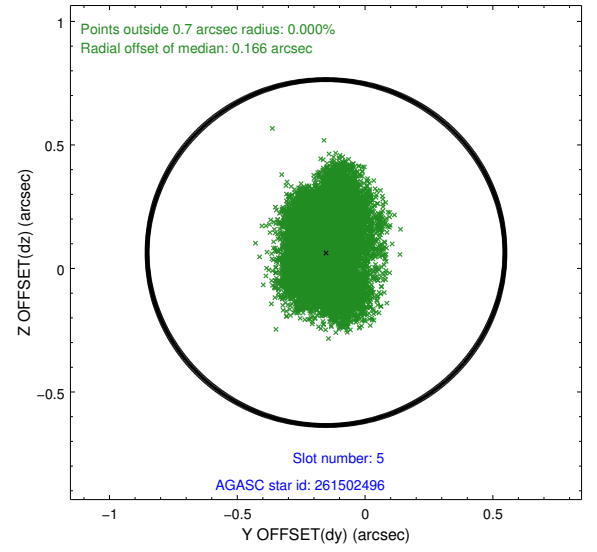
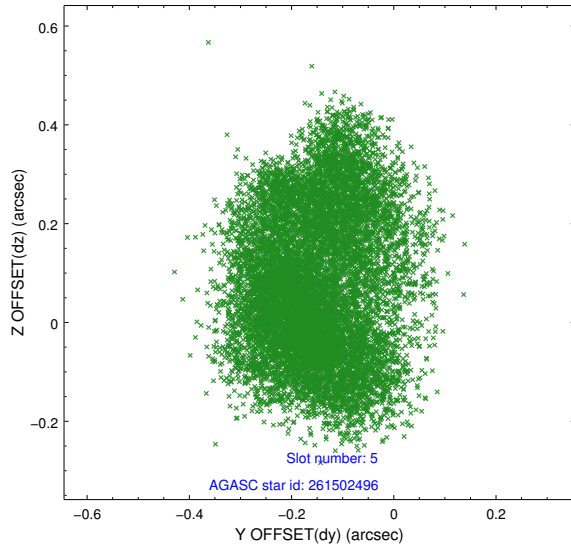
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	5333	-0.053	-0.058	0.013	0.021	0.000000	0.000000	922.30	-842.92
1	FID		ACIS-I-4	7.19	5333	0.466	0.089	0.012	0.034	0.000000	0.000000	2142.82	1057.03
2	FID		ACIS-I-5	7.24	5333	-0.511	0.040	0.009	0.019	0.000000	0.000000	-1826.08	1054.76
3	GUIDE	used	261492080	9.24	10657	0.241	0.312	0.174	0.271	194.976344	28.631585	750.32	-2107.16
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	GUIDE	used	261502496	7.35	10665	-0.153	0.064	0.188	0.280	194.887297	28.065668	-495.15	-470.55
6	GUIDE	used	261505232	9.73	10591	-0.143	0.029	0.313	0.467	194.216553	27.802521	343.32	1707.81
7	GUIDE	used	261505760	9.77	10646	0.039	-0.392	0.182	0.292	193.736841	27.992885	1912.48	2293.53

2.4 Star Slots

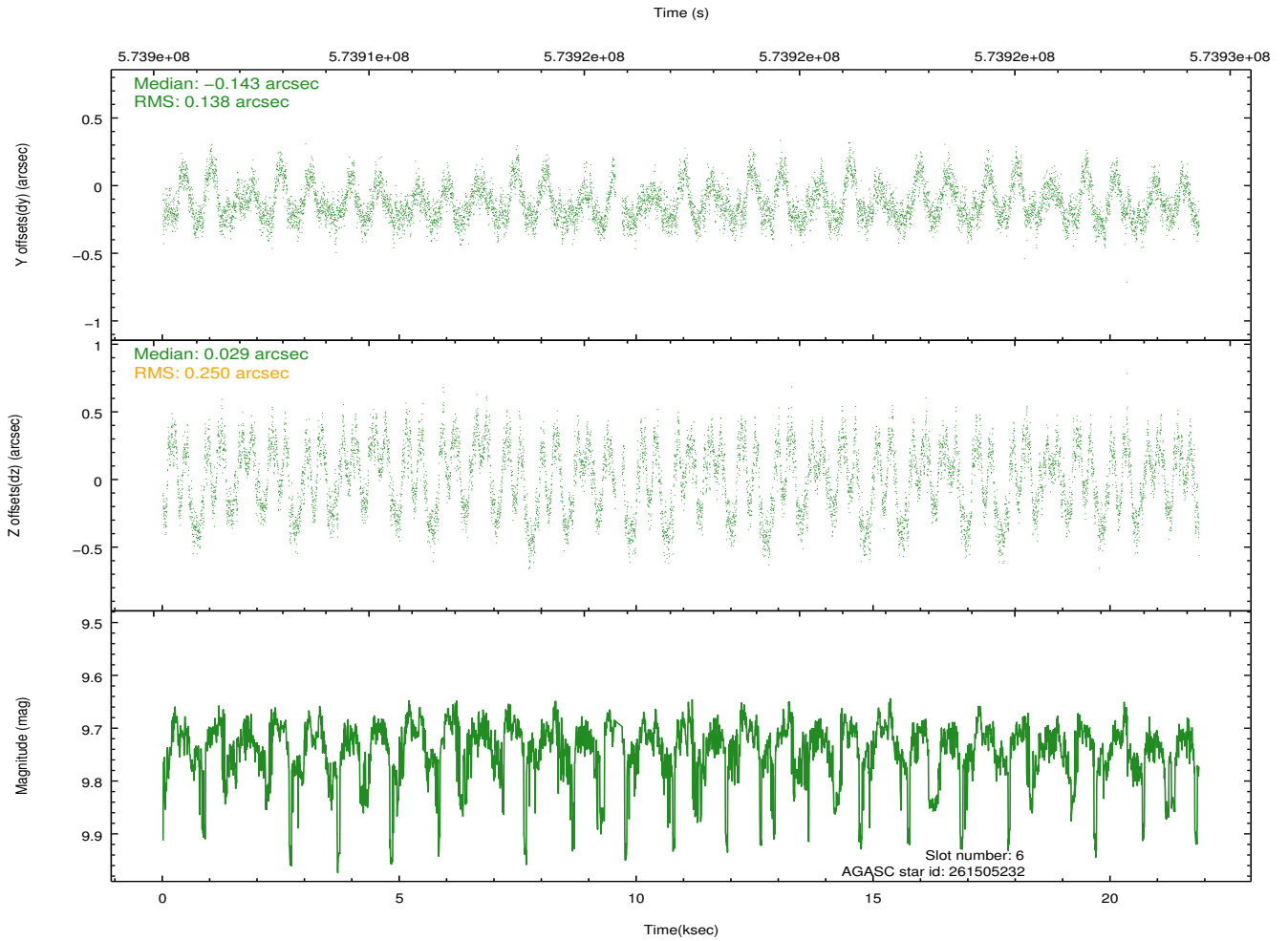
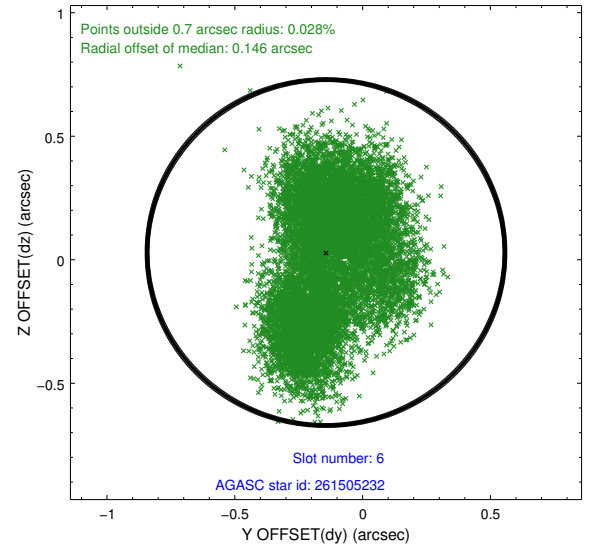
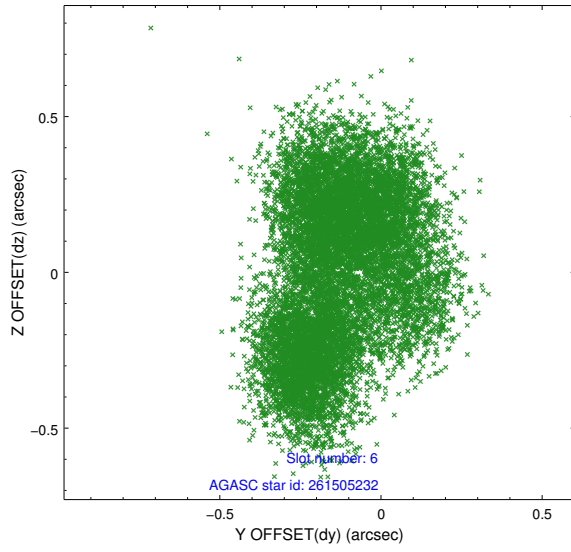
2.4.1 Slot 3



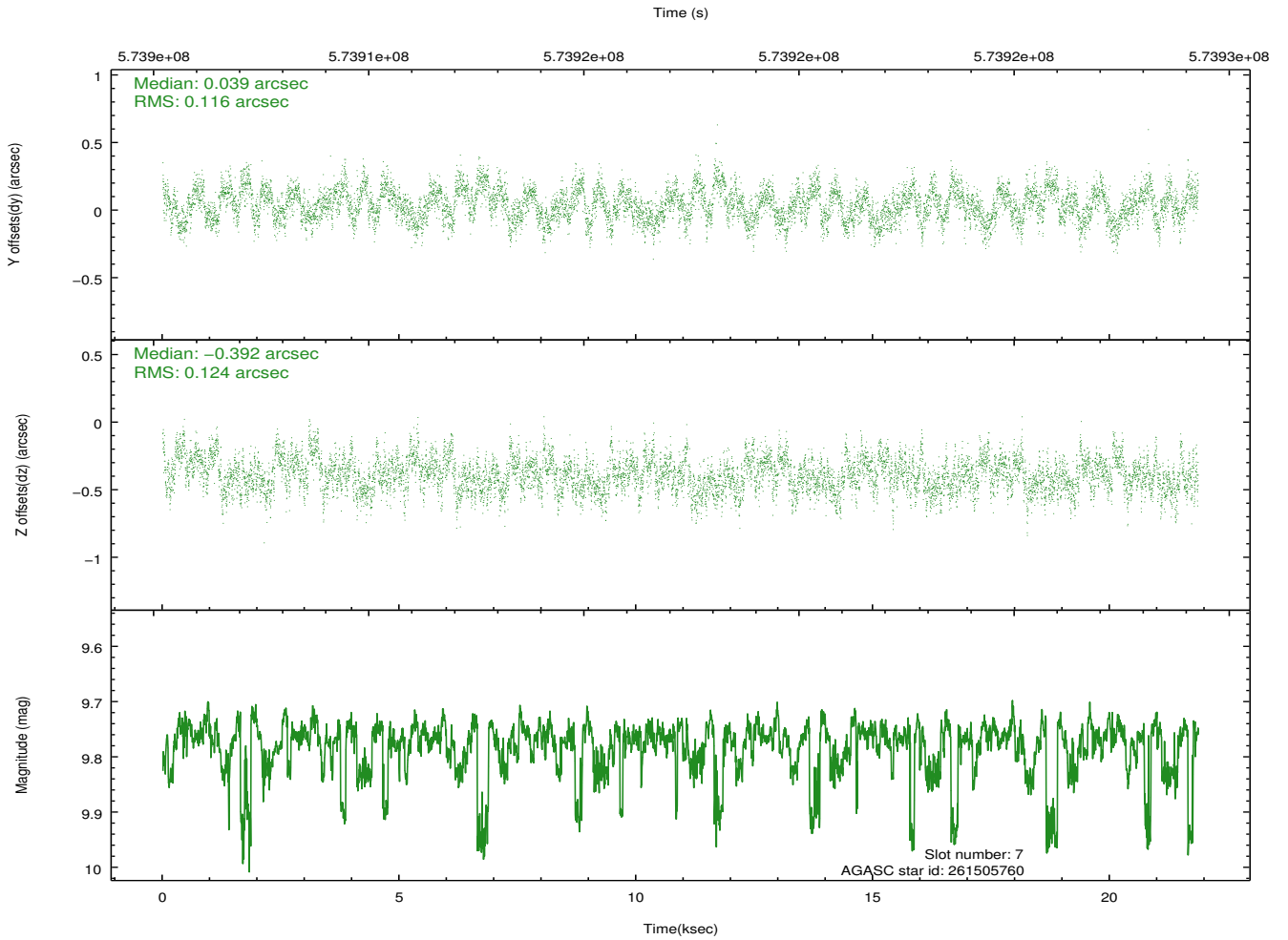
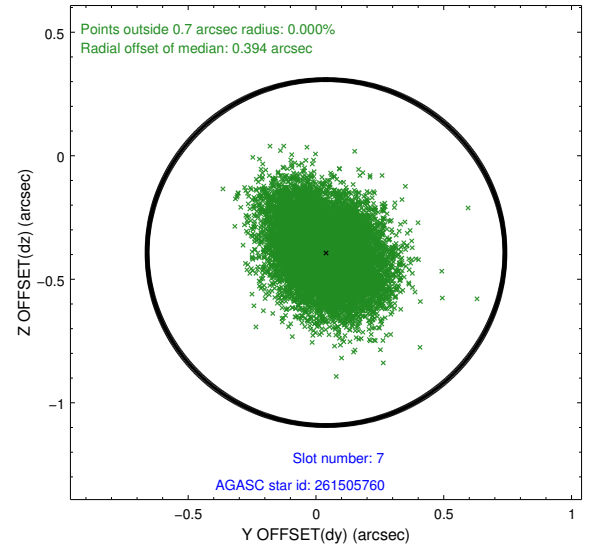
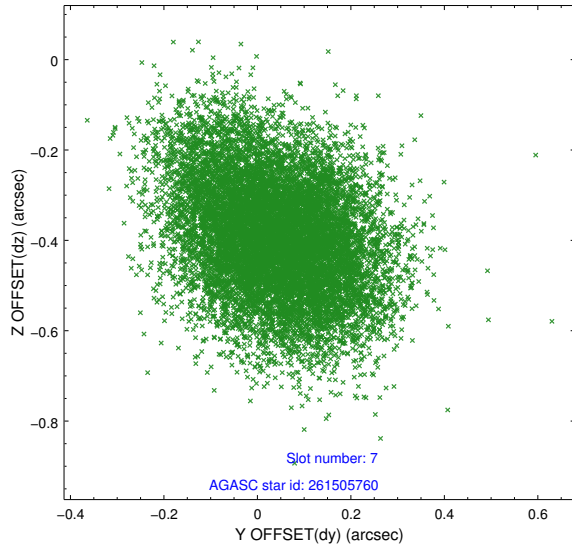
2.4.2 Slot 5



2.4.3 Slot 6

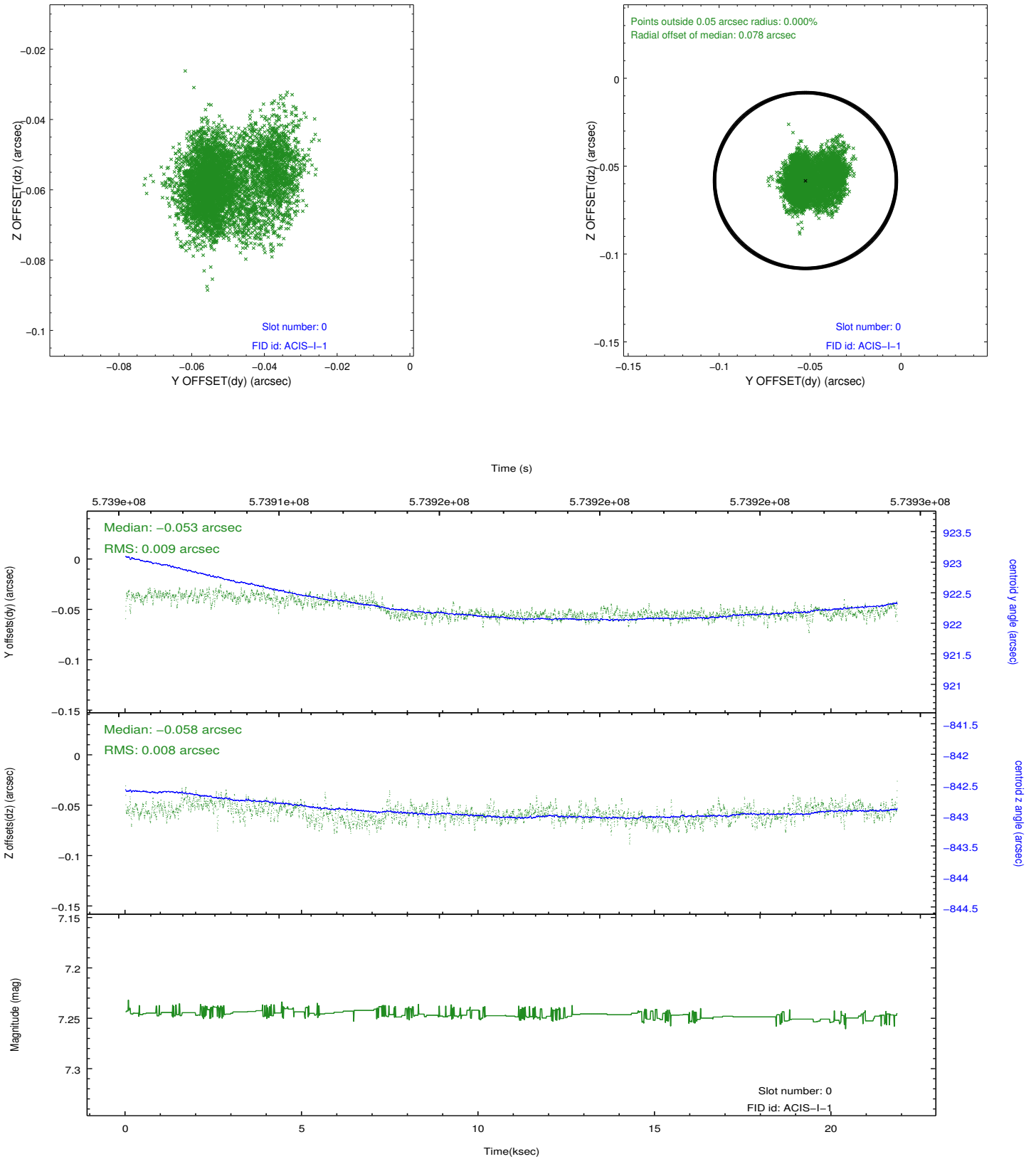


2.4.4 Slot 7

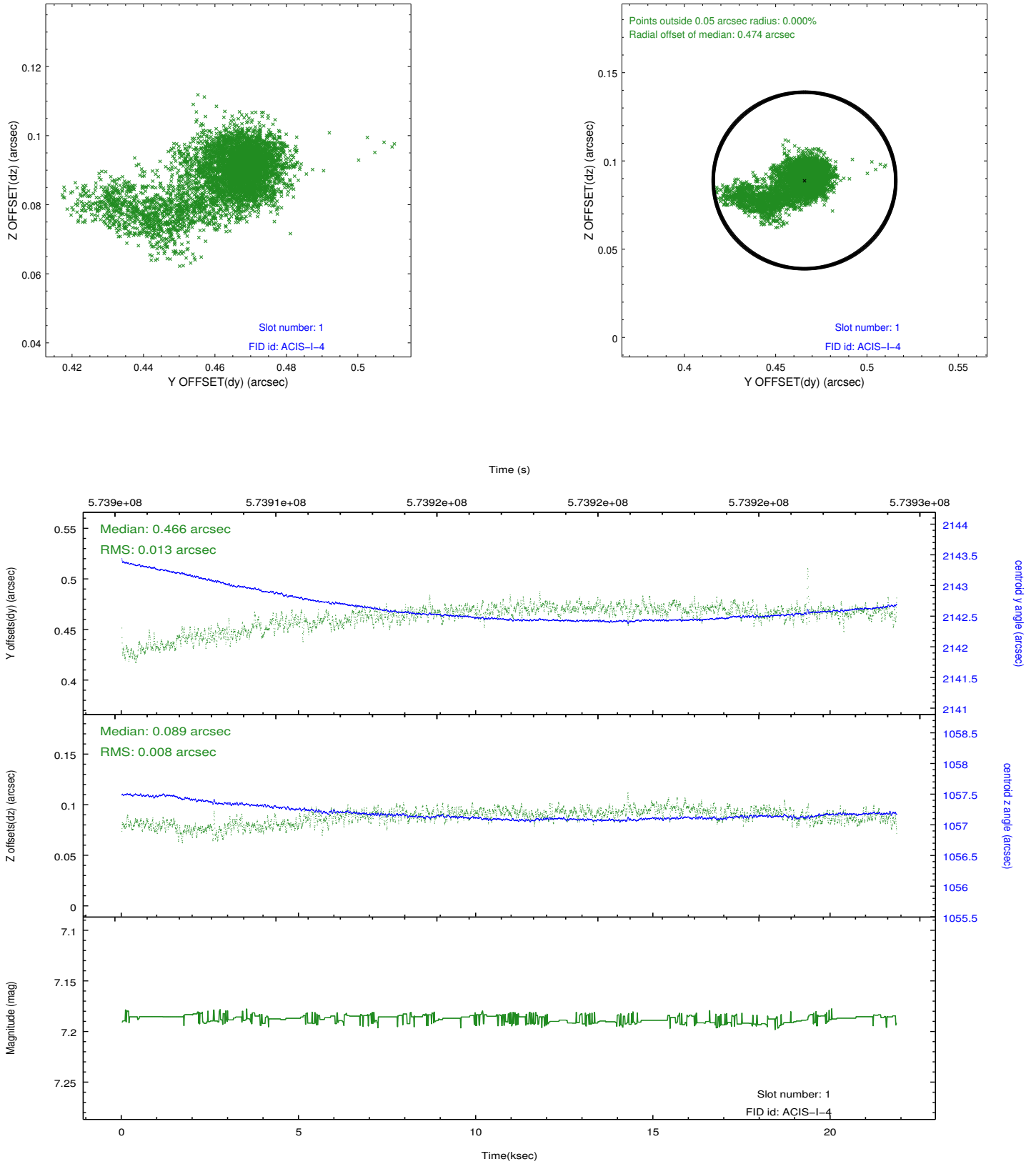


2.5 FID Slots

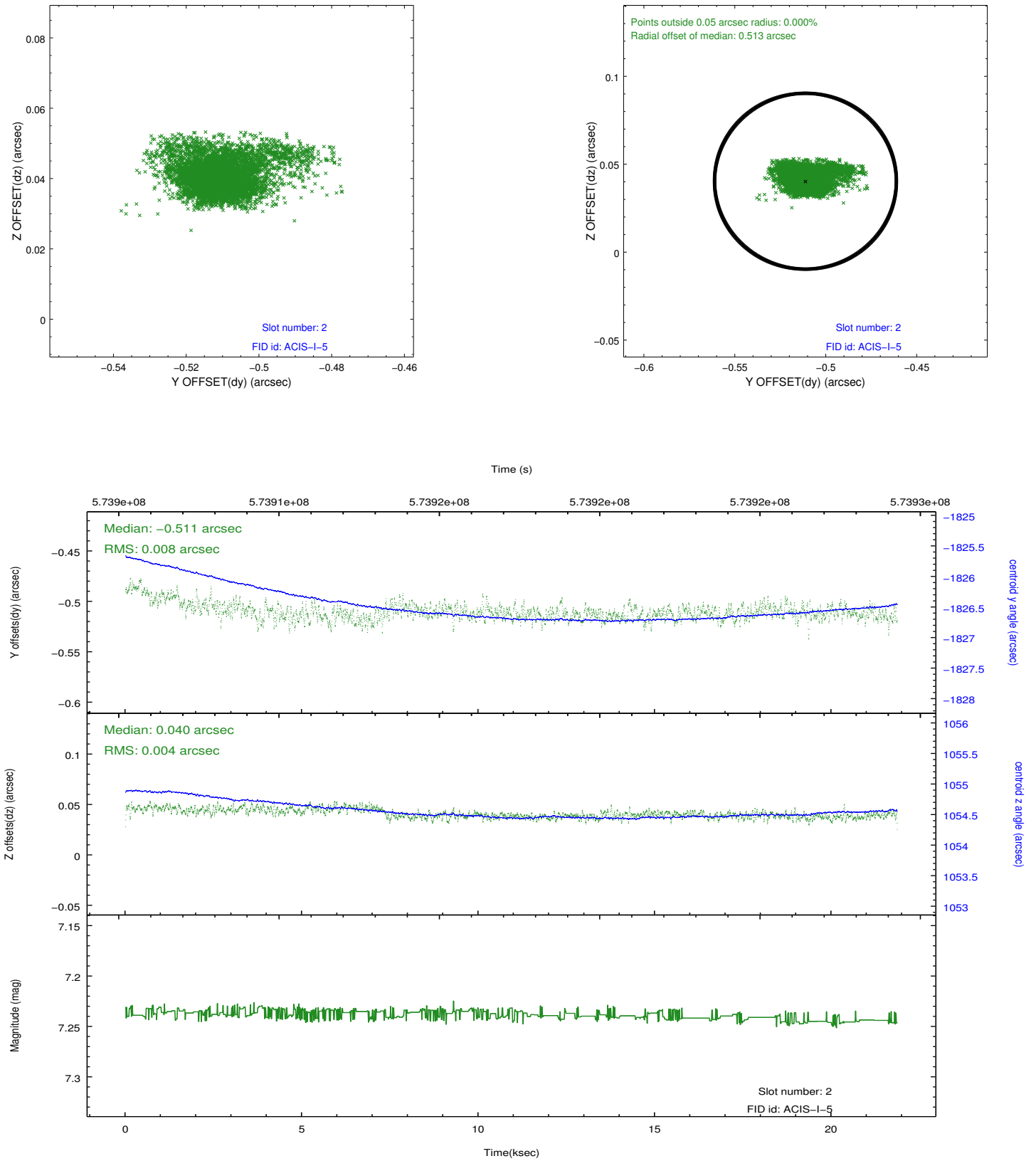
2.5.1 Slot 0



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)	2016.03.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.532600165725

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.