

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 17056 - L2 Version 1
Chandra X-Ray Center

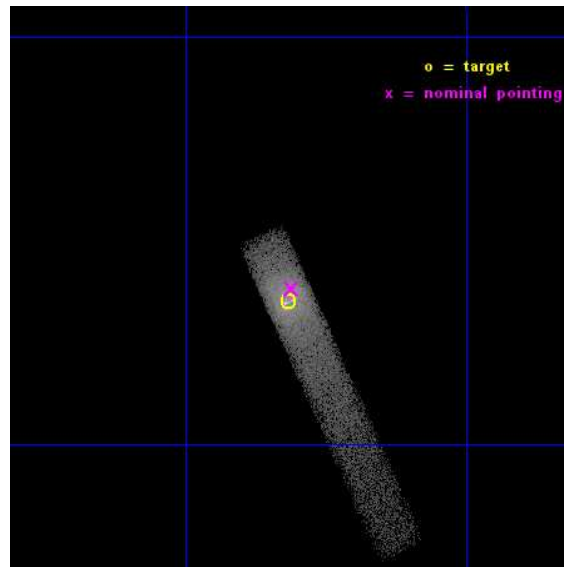
L2 Processing Date : Dec 17 2014

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1 Front

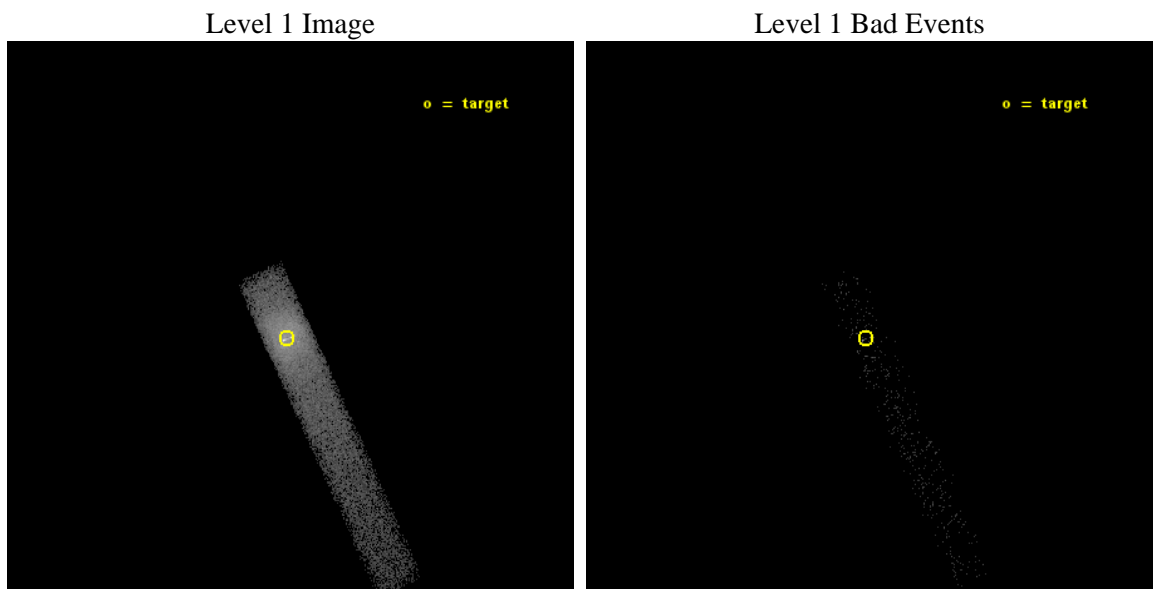
seq_num	703060	Sequence number
obs_id	17056	Observation id
title	Keeping Tabs on the Unique Jet in M87 During Cycle 16	Proposal tit
observer	Dr. Daniel Harris	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.70285150352	Nominal RA [deg]
dec_nom	12.396917756187	Nominal Dec [deg]
roll_nom	64.464384548491	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5069.070579946	Sum of GTIs [s]
livetime	4597.3794485272	Livetime [s]
ontime7	5069.070579946	Sum of GTIs [s]
l2events	36268	Number of level 2 events



2 OBI

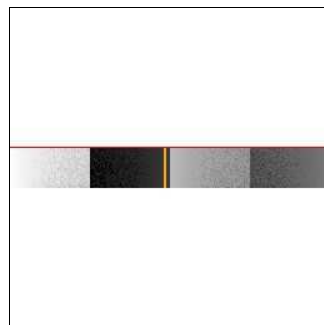
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	5069.070579946	Sum of GTIs [s]
caldsver	4.6.5	 	ontime7	5069.070579946	Sum of GTIs [s]
date	2014-12-18T04:28:04	Date and time of file creation	l1events	39605	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

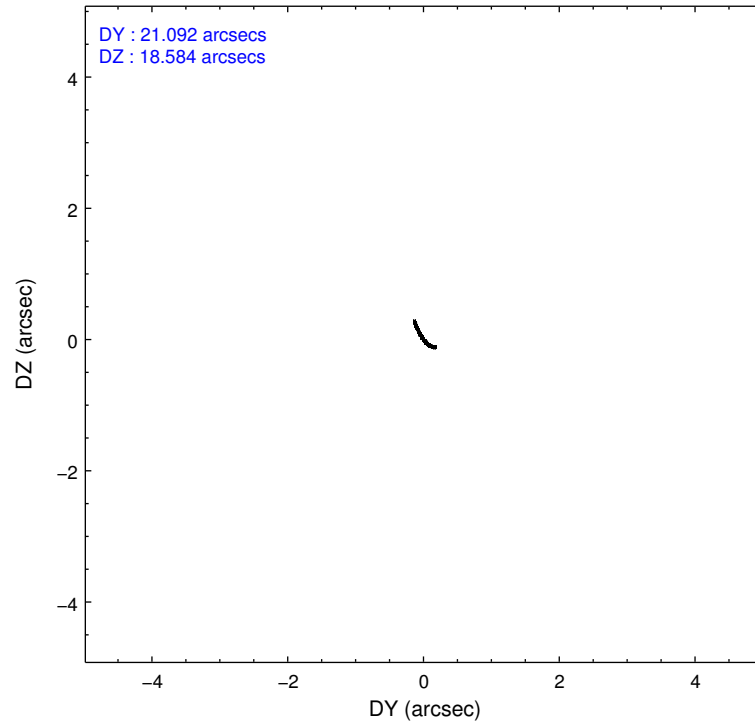
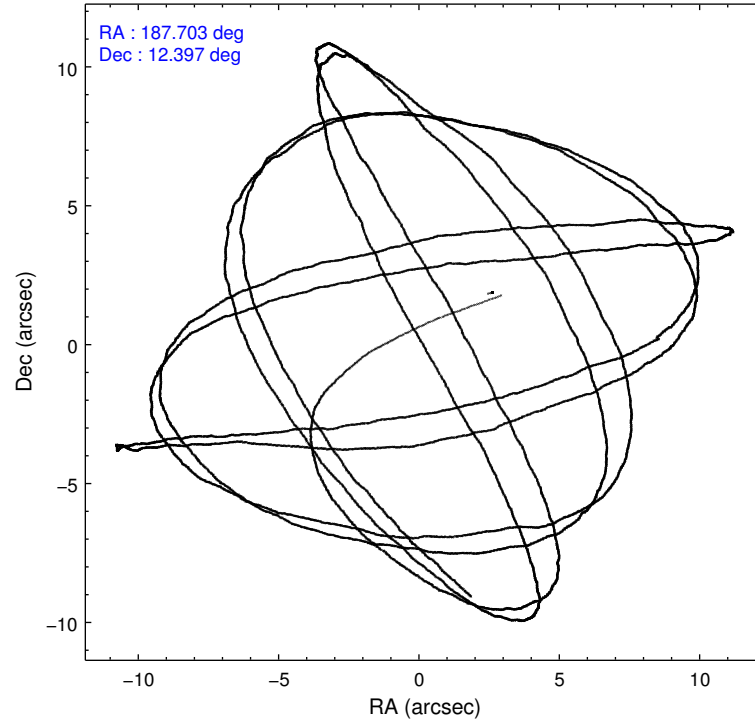
	ccd 7
level 1 events	39605
rejected events	2978
rejected %	7%

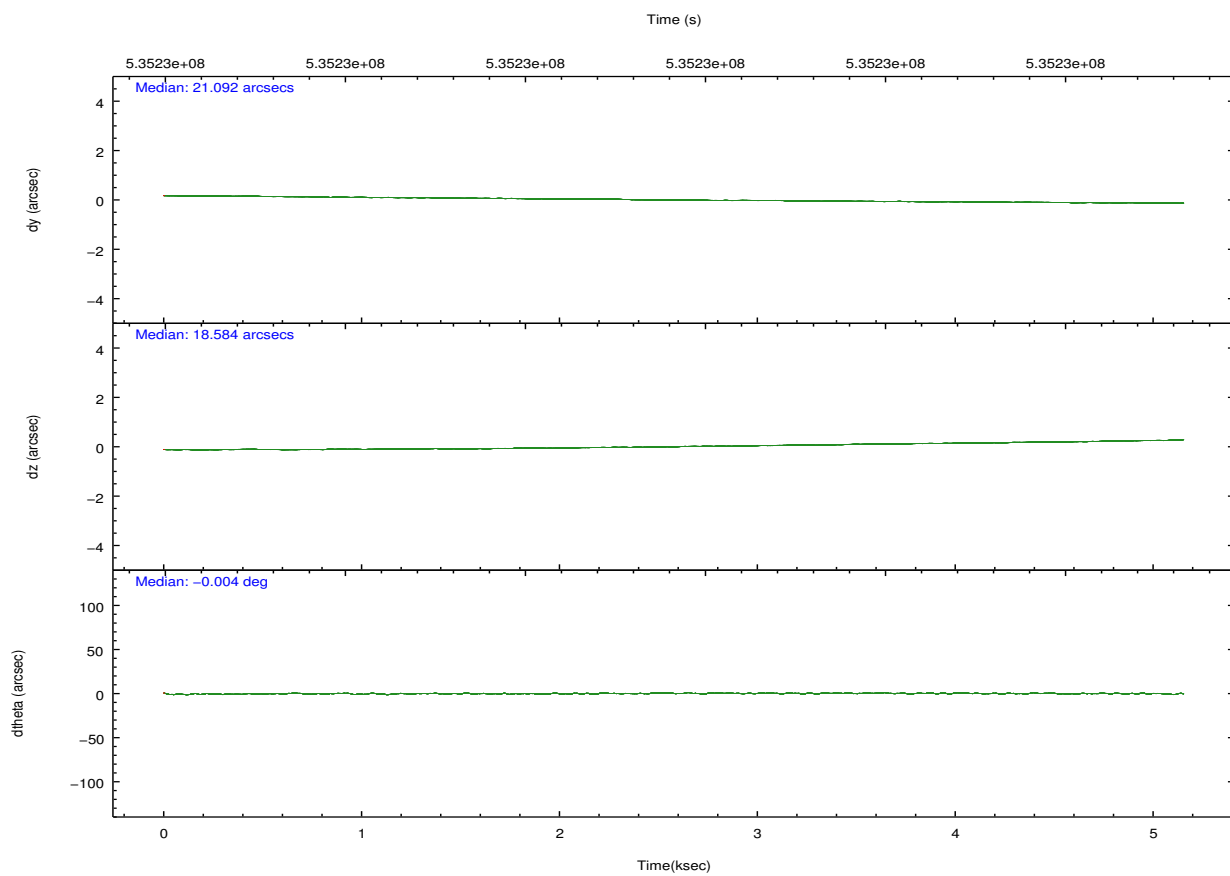
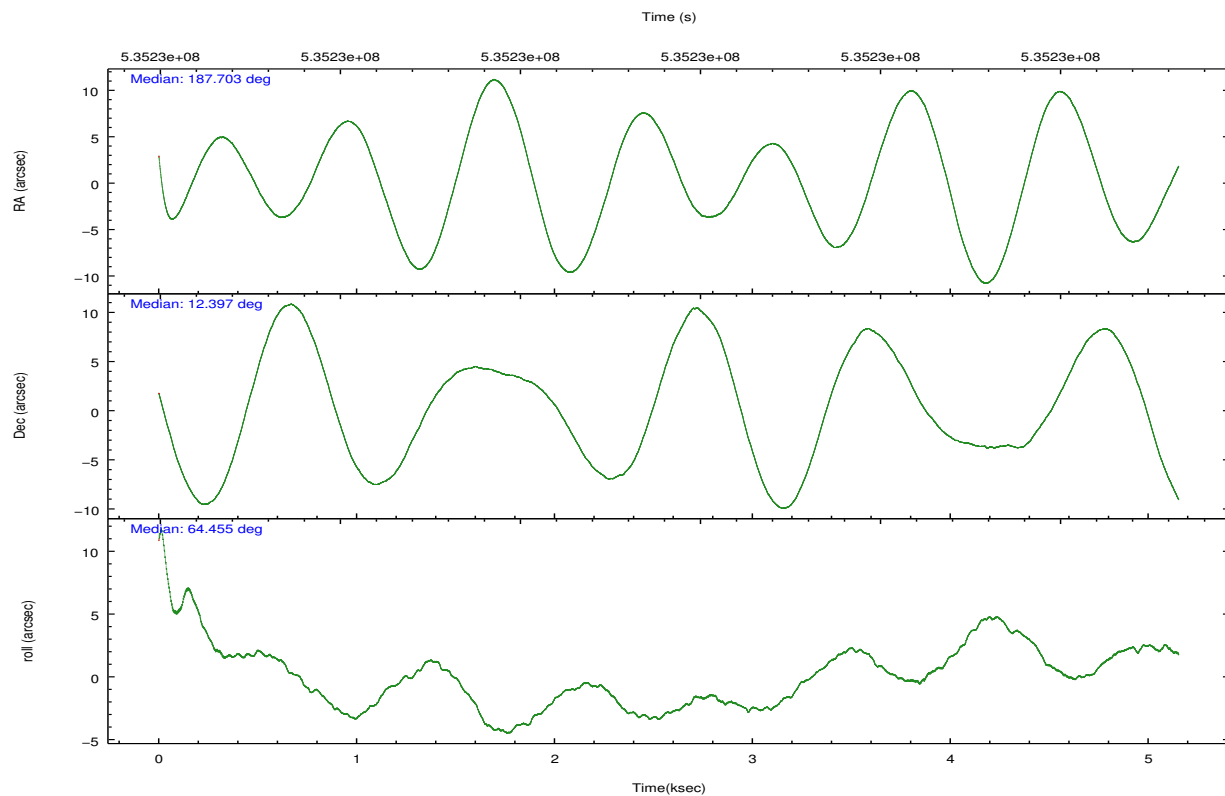
	ccd 7
grade 0 events	10414
	26%
grade 1 events	19
	0%
grade 2 events	9656
	24%
grade 3 events	4361
	11%
grade 4 events	4198
	10%
grade 5 events	731
	1%
grade 6 events	8005
	20%
grade 7 events	2221
	5%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	187.705426	187.7028515035218	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.369624	12.39691775618718	Subarray start row	449	449
[deg] Pointing Roll	64.307183	64.46438454849073	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	535229404.184000	535228318.27093			
Observation start date	2014-12-17T18:48:57	2014-12-17T18:31:58			
[s] Observation end time (MET)	535234404.184000	535235648.04634			
Observation end date	2014-12-17T20:12:17	2014-12-17T20:34:08			
Read mode	TIMED	TIMED			

2.3 Aspect



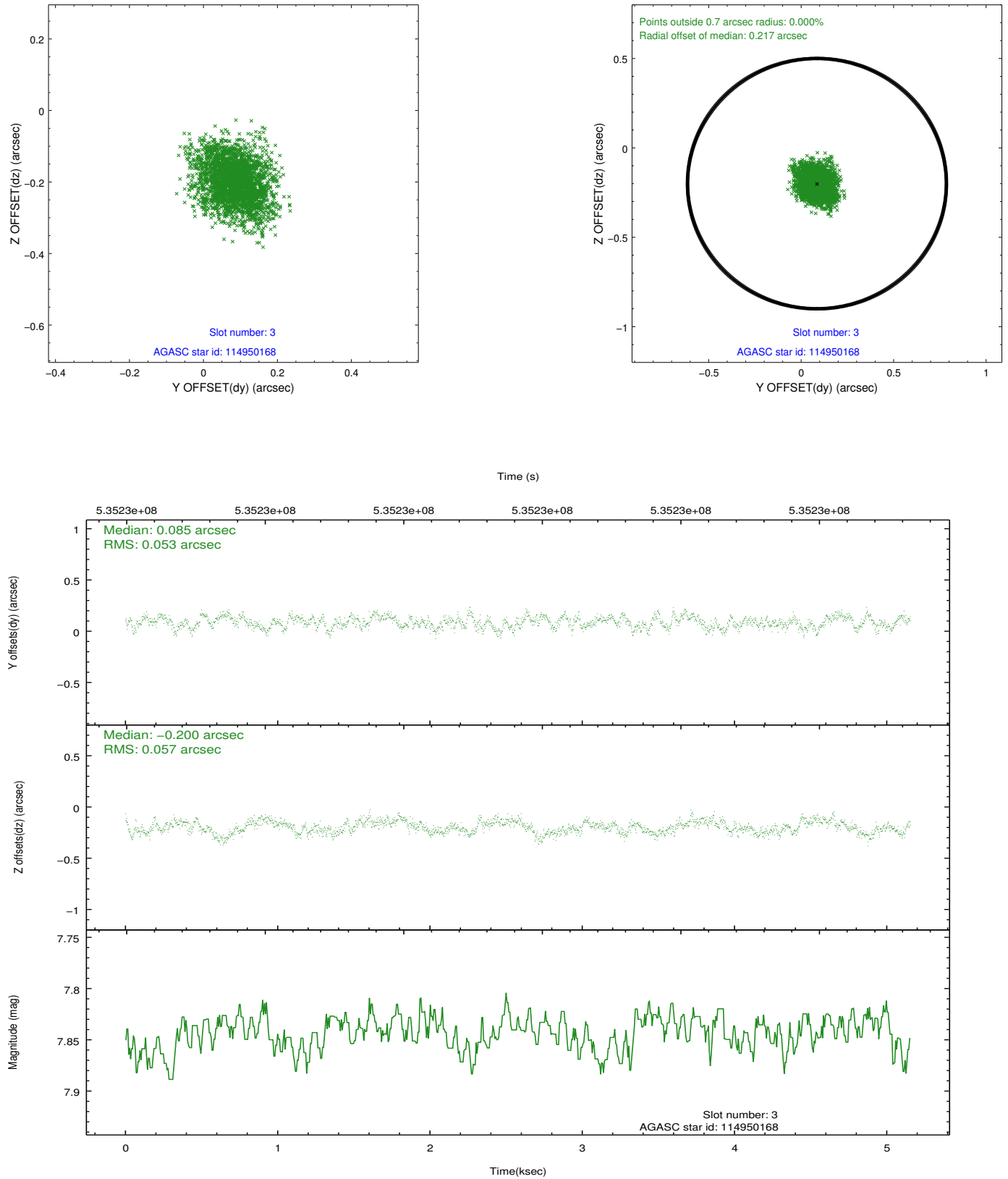


Slot Statistics

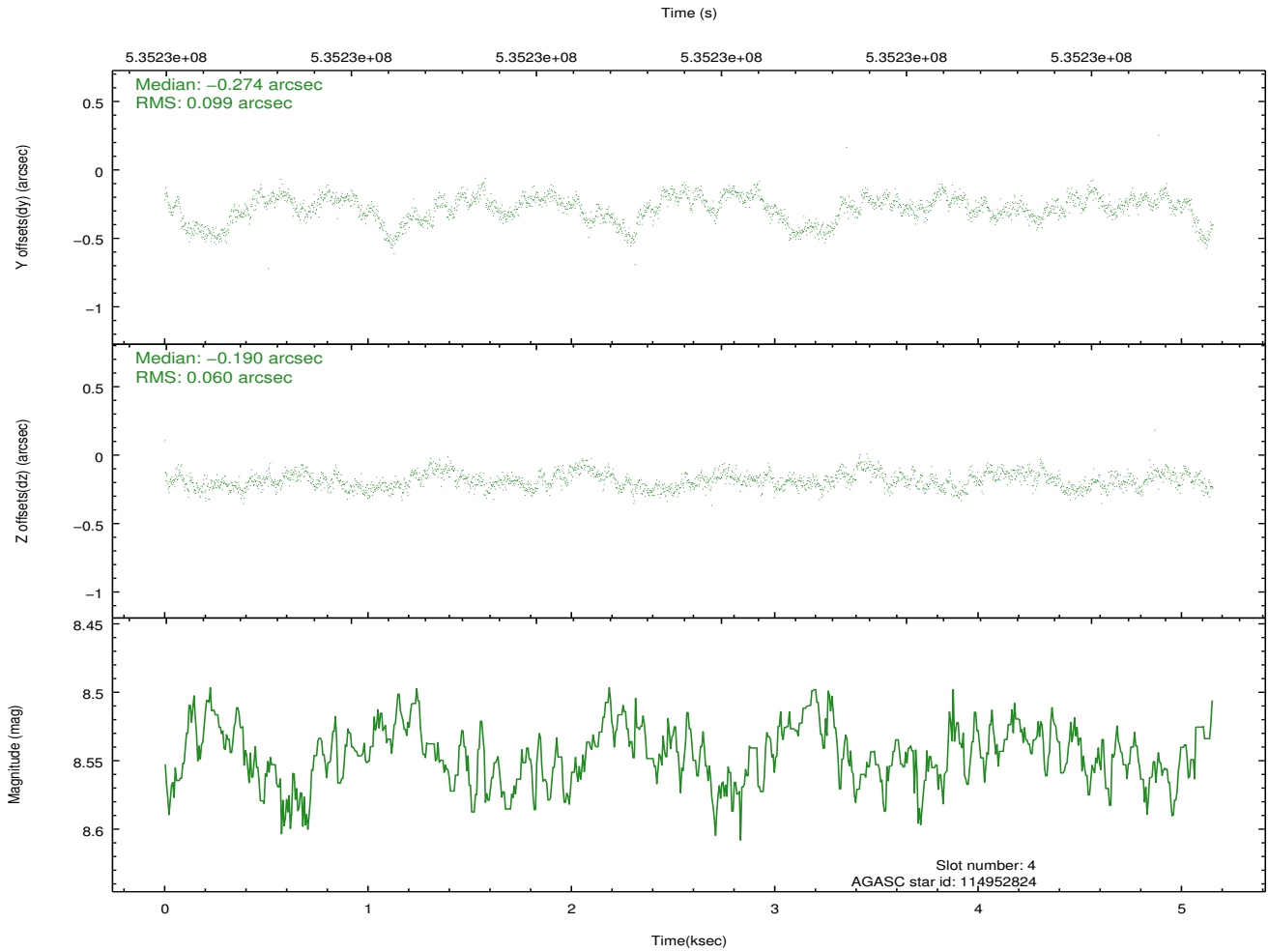
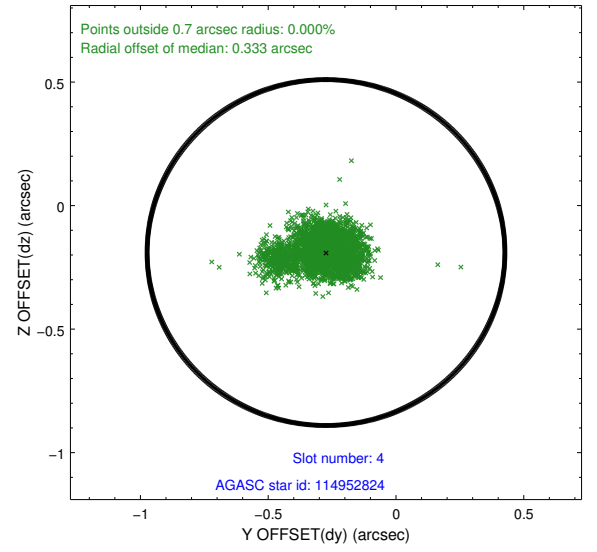
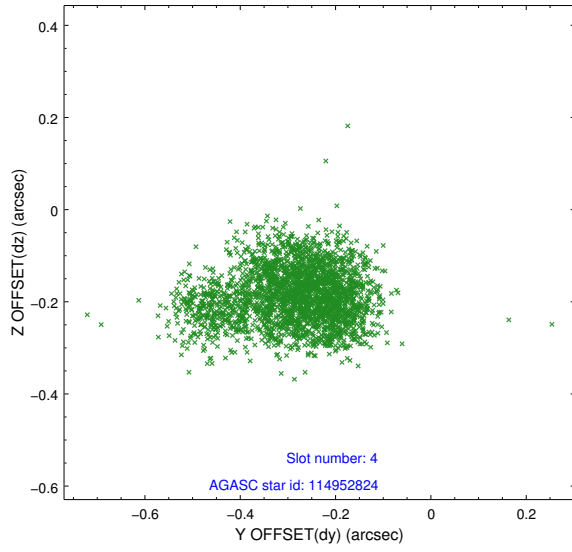
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.15	1258	-0.140	-0.090	0.008	0.013	0.000000	0.000000	-774.39	-1740.17
1	FID		ACIS-S-4	7.25	1258	0.305	0.092	0.006	0.011	0.000000	0.000000	2138.81	167.25
2	FID		ACIS-S-5	7.27	1258	-0.197	0.007	0.008	0.013	0.000000	0.000000	-1825.77	162.21
3	GUIDE	used	114950168	7.84	2515	0.085	-0.200	0.083	0.132	187.143398	12.117441	-1673.99	1389.81
4	GUIDE	used	114952824	8.55	2515	-0.274	-0.190	0.117	0.210	187.703904	12.486727	376.55	188.98
5	GUIDE	used	114954440	9.17	2515	0.153	-0.406	0.106	0.170	186.915066	12.219118	-1689.72	2271.30
6	GUIDE	used	114955056	8.33	2514	-0.128	0.999	0.096	0.149	187.914001	12.127854	-466.20	-1036.25
7	GUIDE	used	114957008	8.24	2513	0.175	-0.204	0.117	0.177	186.894794	12.099160	-2111.32	2151.44

2.4 Star Slots

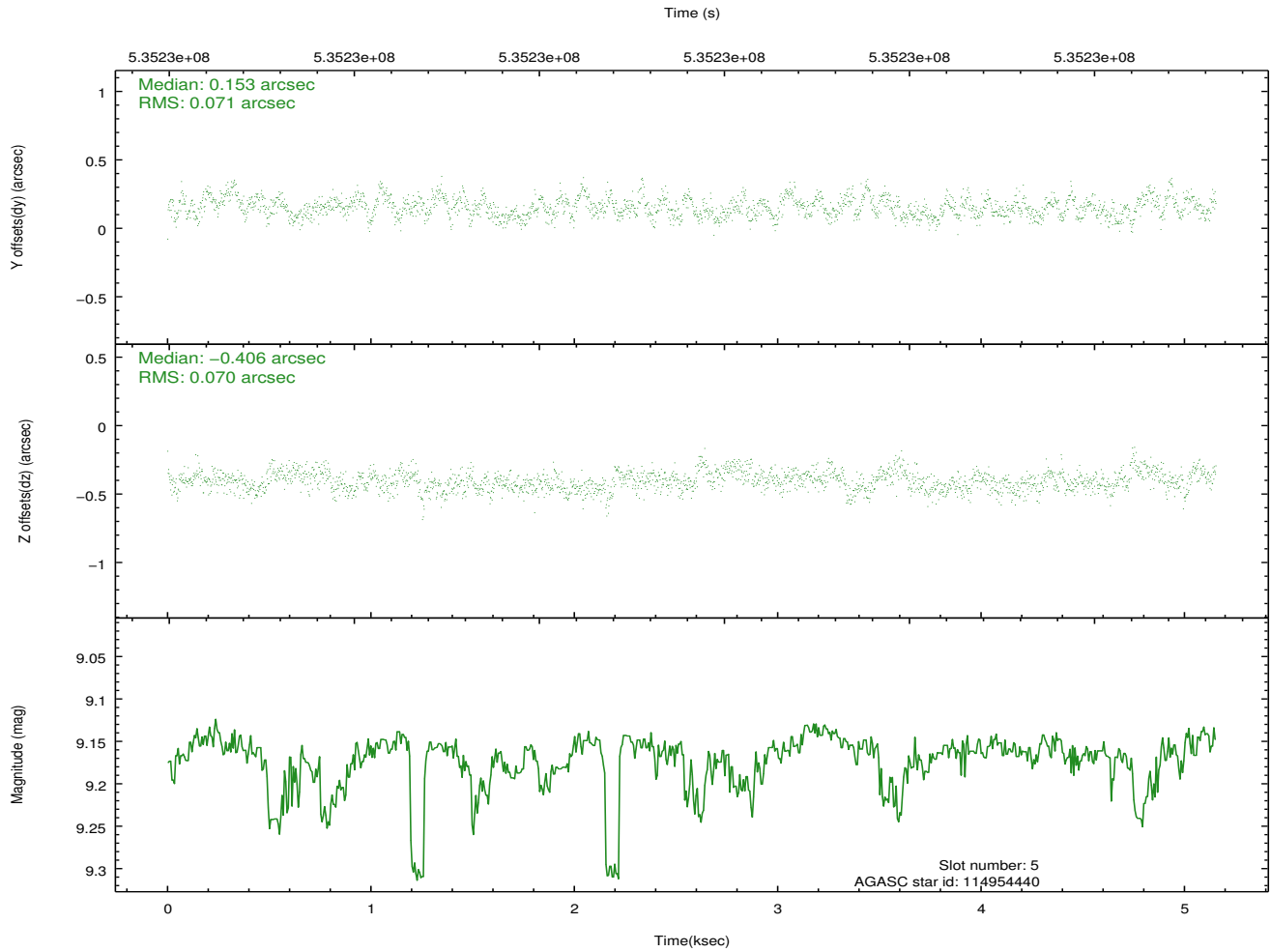
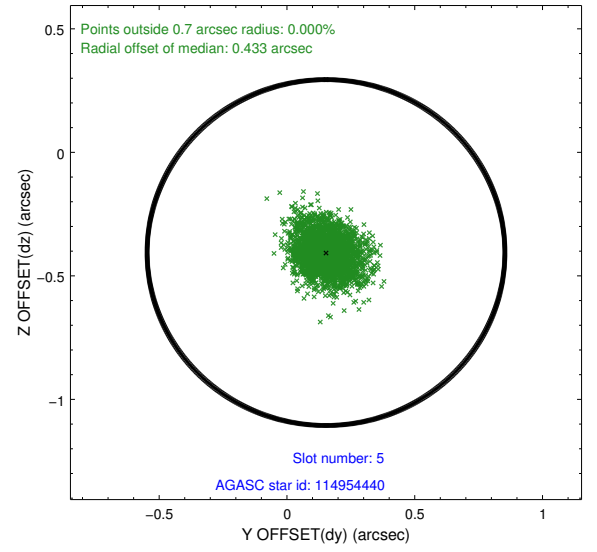
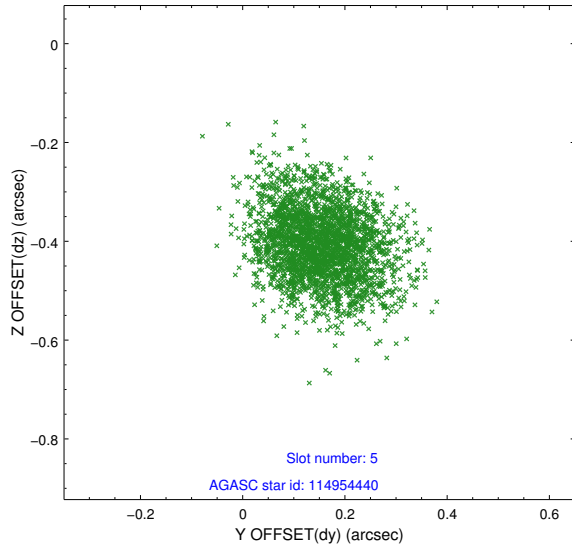
2.4.1 Slot 3



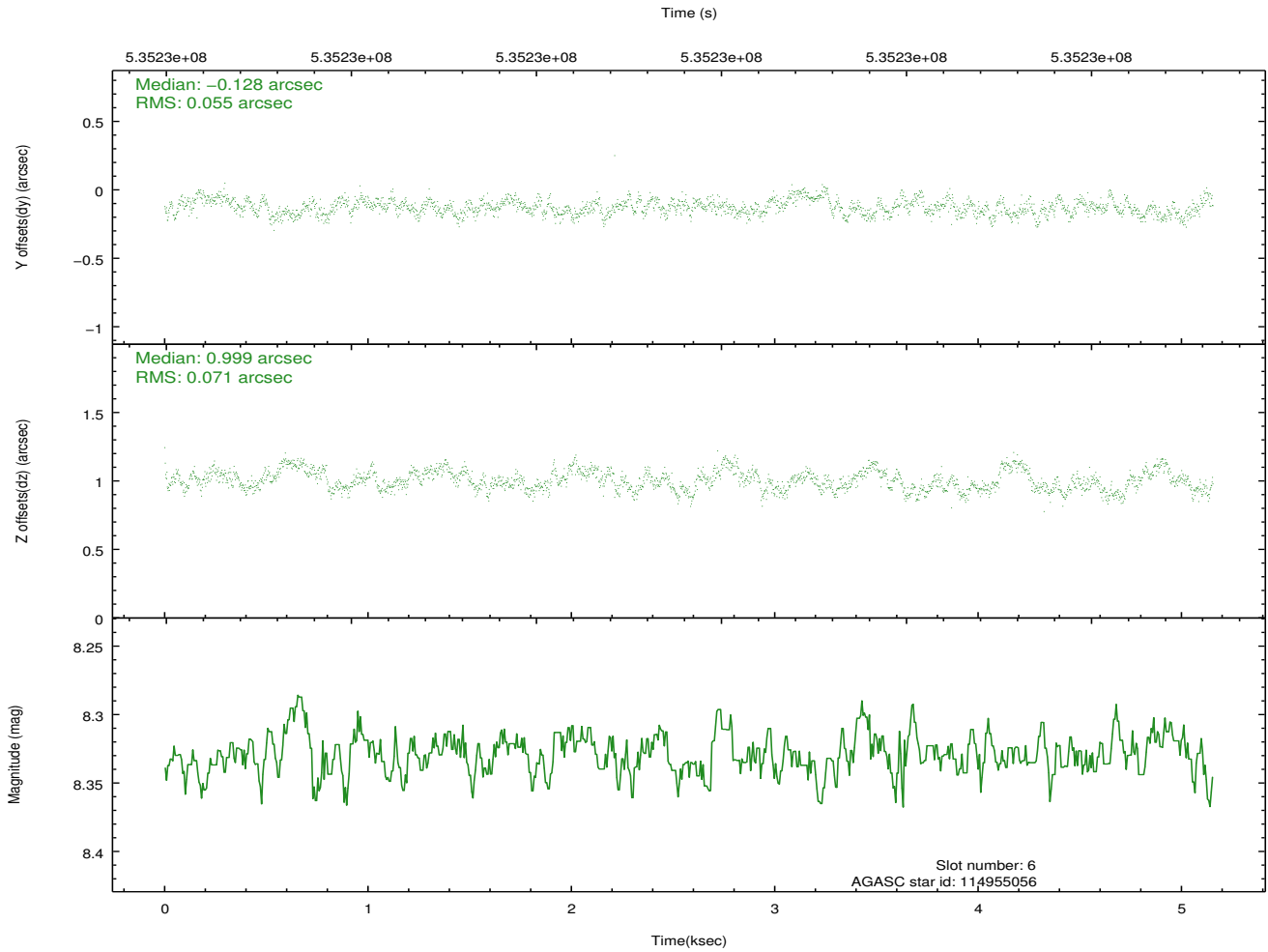
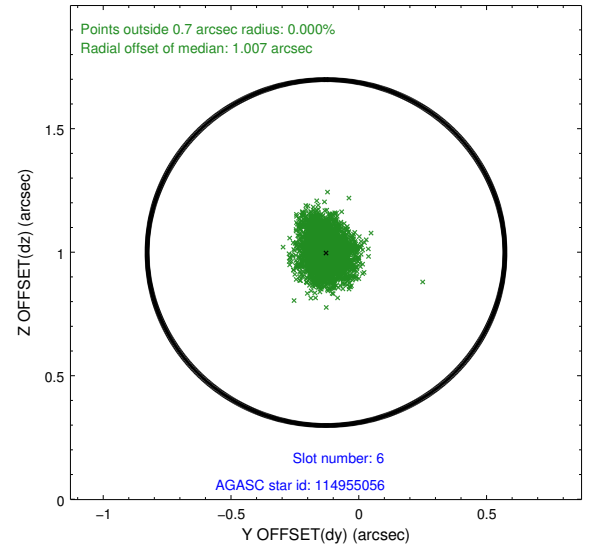
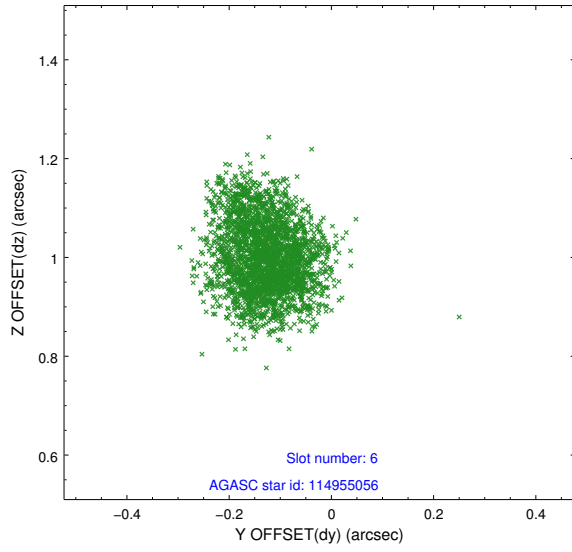
2.4.2 Slot 4



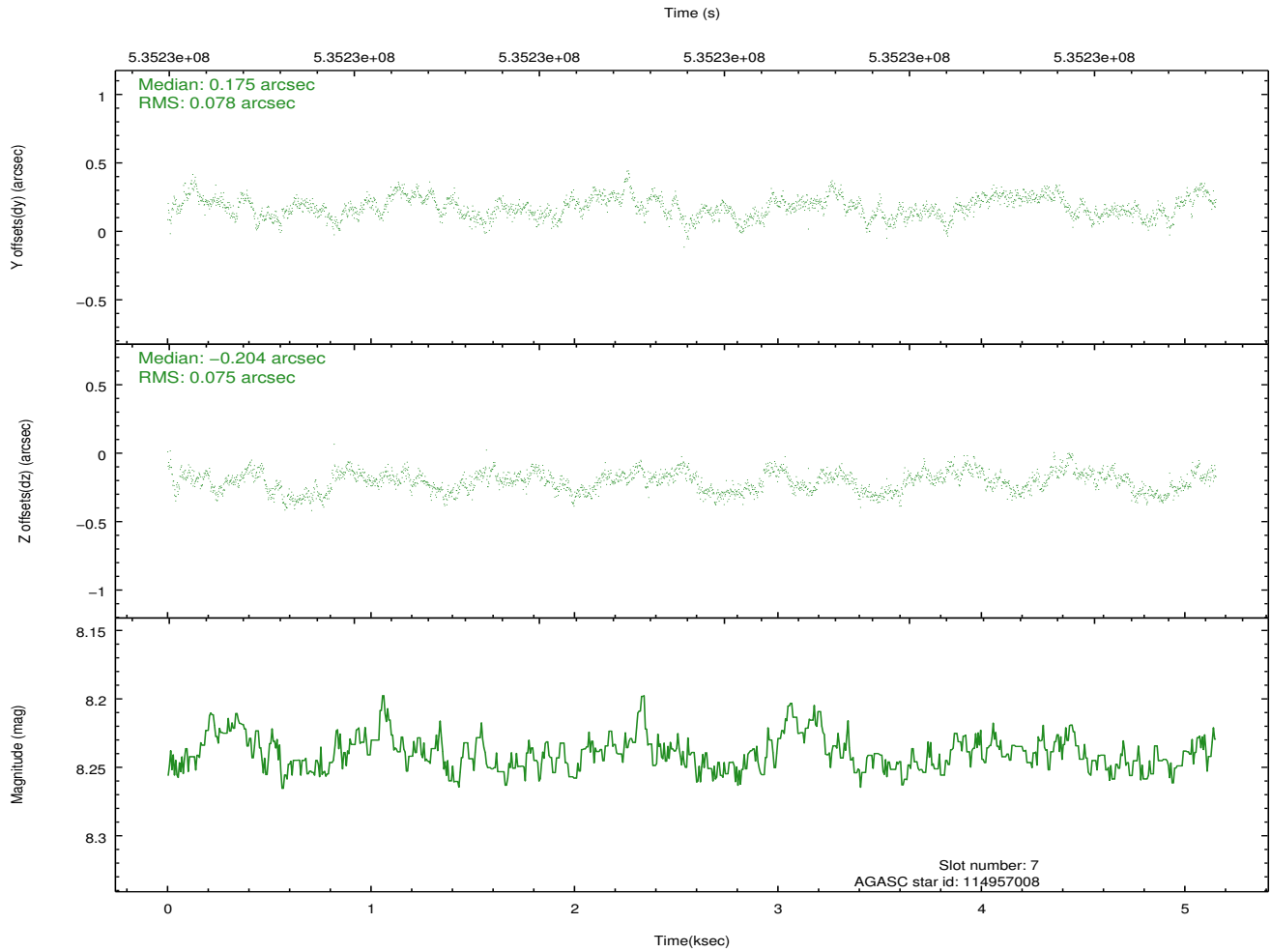
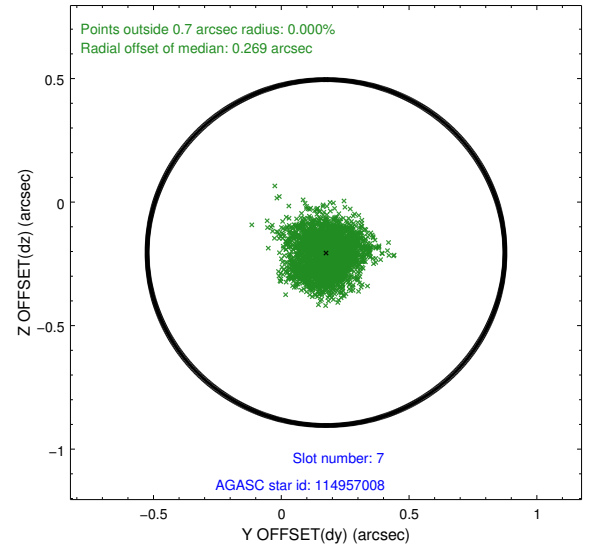
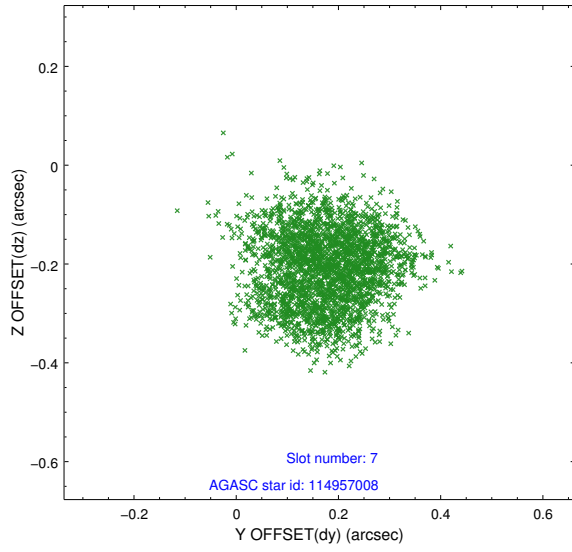
2.4.3 Slot 5



2.4.4 Slot 6

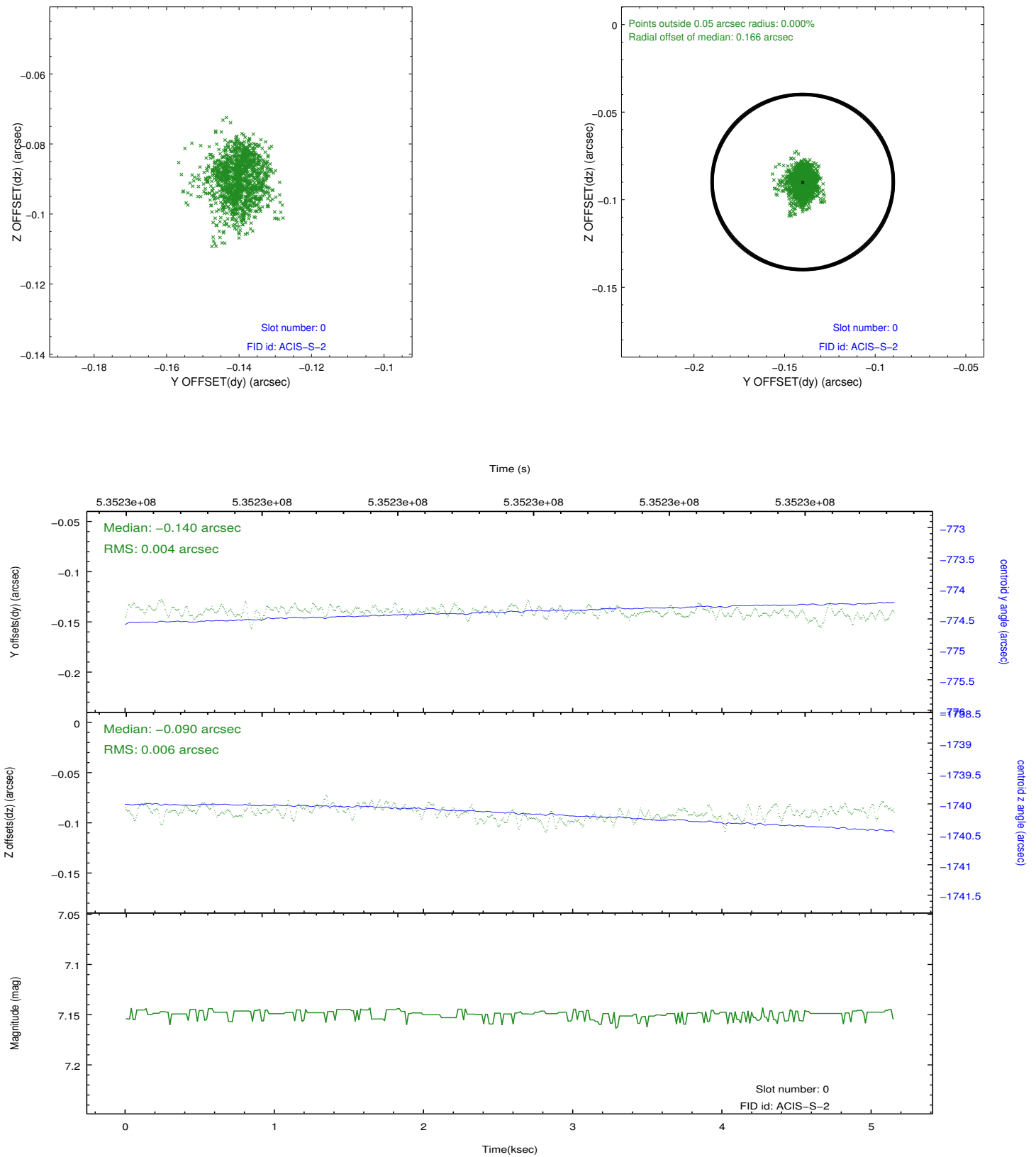


2.4.5 Slot 7

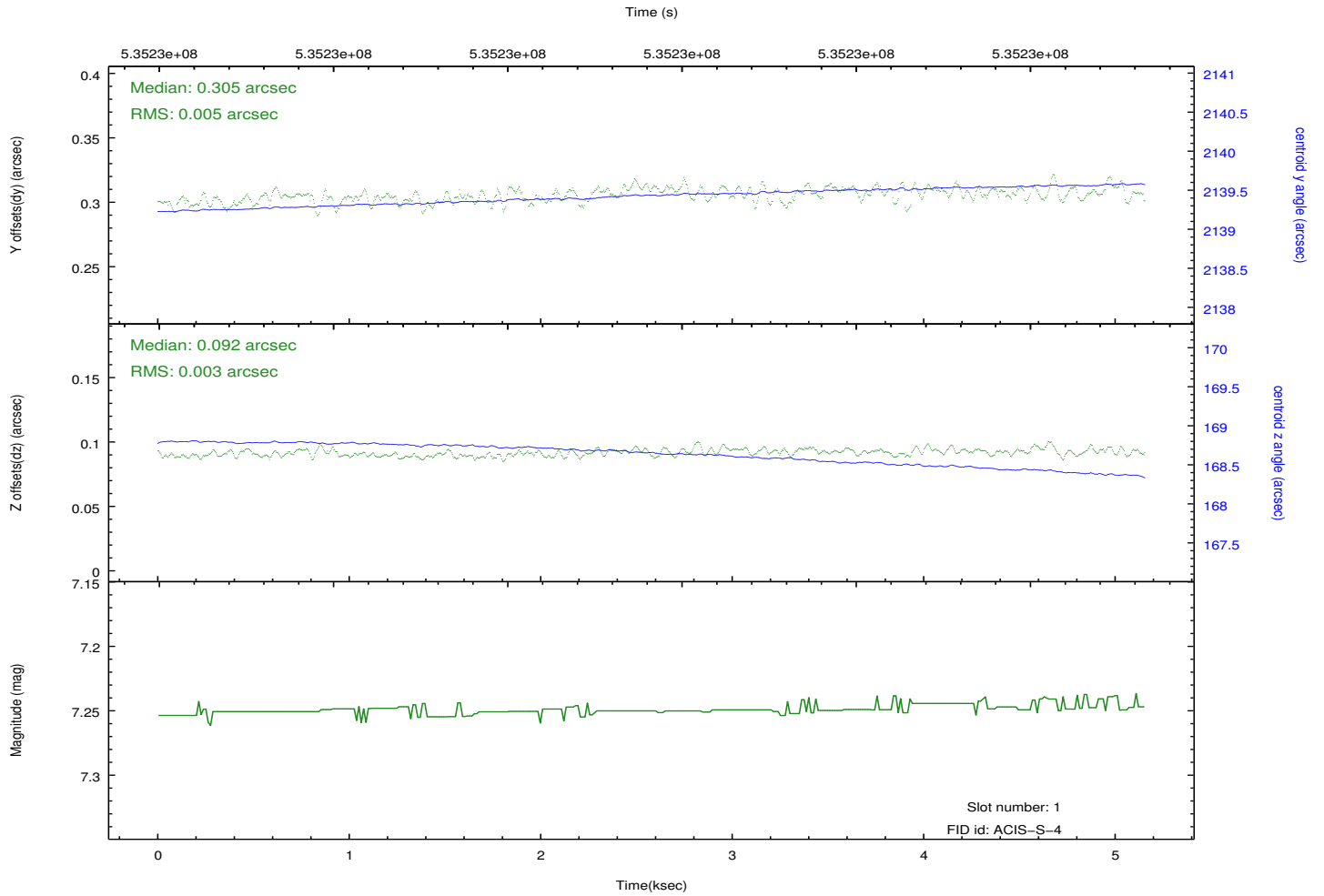
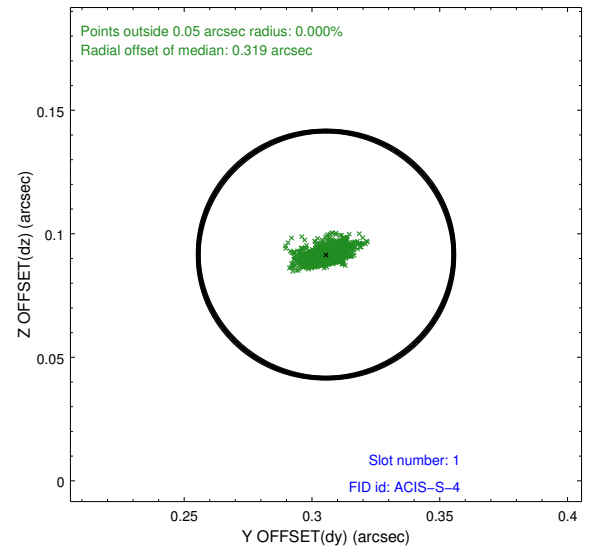
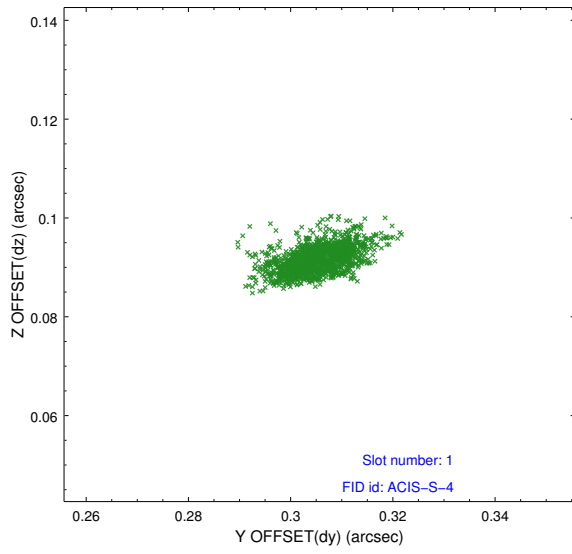


2.5 FID Slots

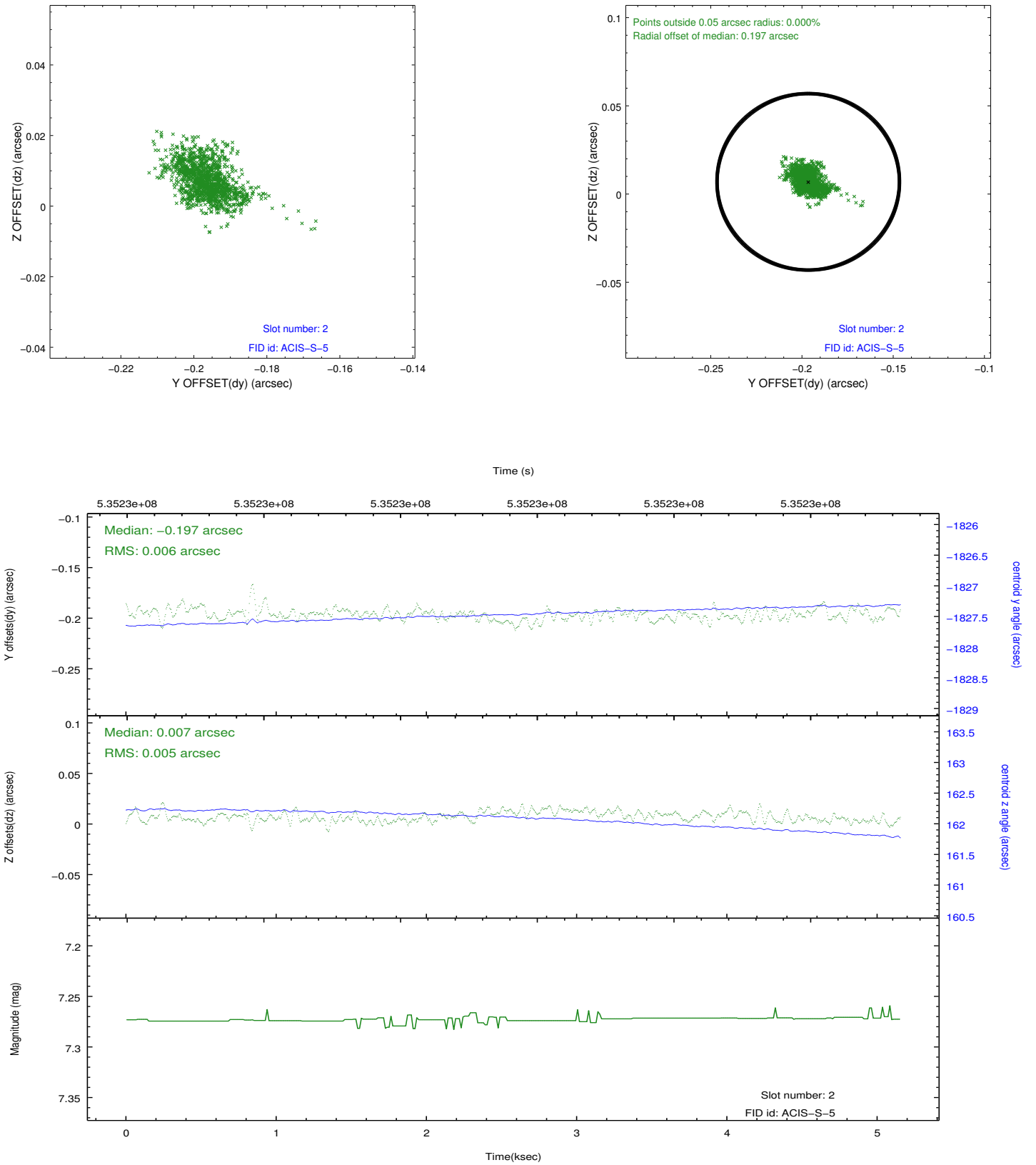
2.5.1 Slot 0



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)	2014.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.069070579946

A.2 Comments