

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19457 - L2 Version 1
Chandra X-Ray Center

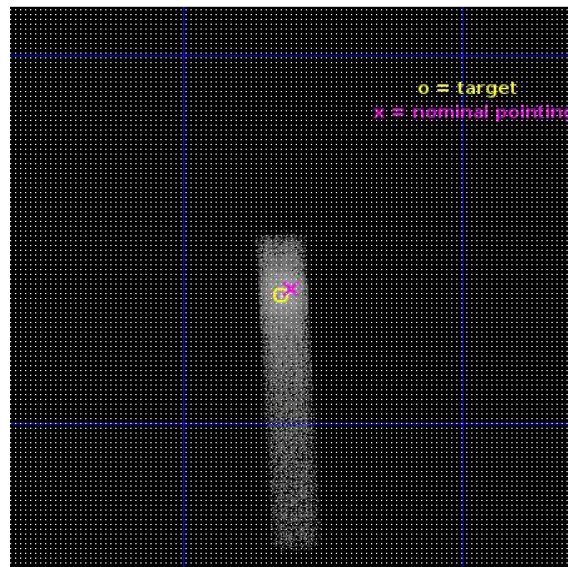
L2 Processing Date : Feb 16 2017

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1 Front

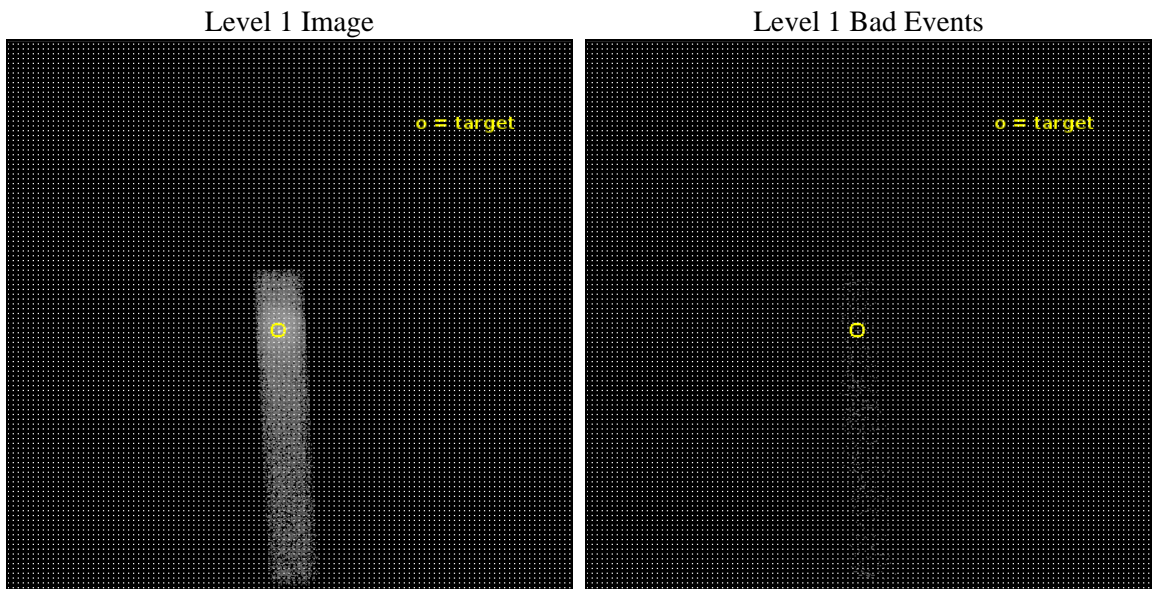
seq_num	703306	Sequence number
obs_id	19457	Observation id
title	Completing a Missing Chapter in Hard X-ray of the M87 AGN	Proposal
observer	Ka-Wah Wong	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.705833	Observer's specified target RA [deg]
dec_targ	12.391111	Observer's specified target Dec [deg]
ra_nom	187.7013585066	Nominal RA [deg]
dec_nom	12.394319738466	Nominal Dec [deg]
roll_nom	87.157545637925	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5069.1996977329	Sum of GTIs [s]
livetime	4597.4965515445	Livetime [s]
ontime7	5069.1996977329	Sum of GTIs [s]
l2events	30578	Number of level 2 events



2 OBI

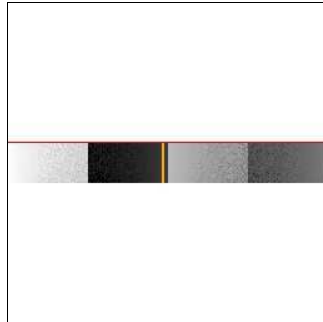
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	5069.1996977329	Sum of GTIs [s]
caldsver	4.7.3	 	ontime7	5069.1996977329	Sum of GTIs [s]
date	2017-02-16T06:05:56	Date and time of file creation	l1events	34395	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

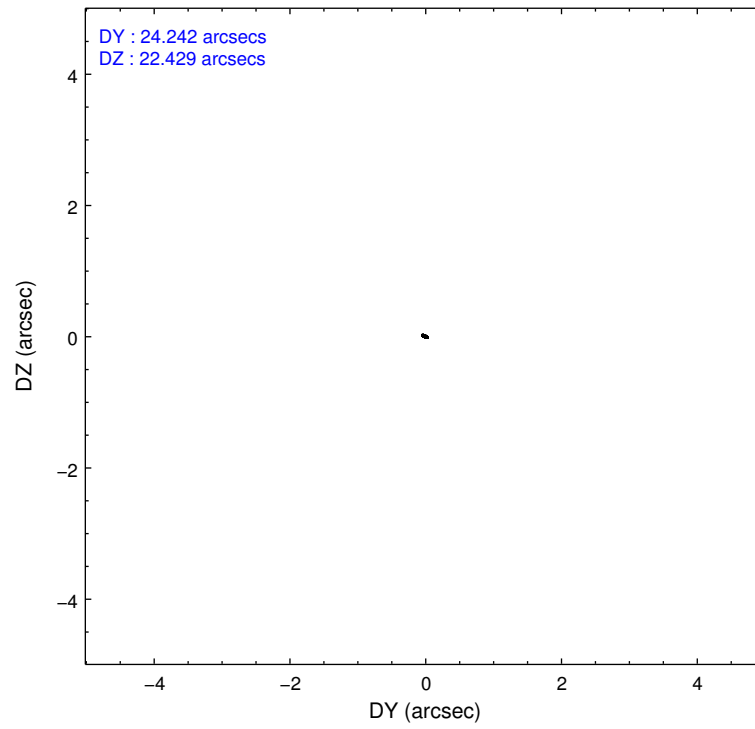
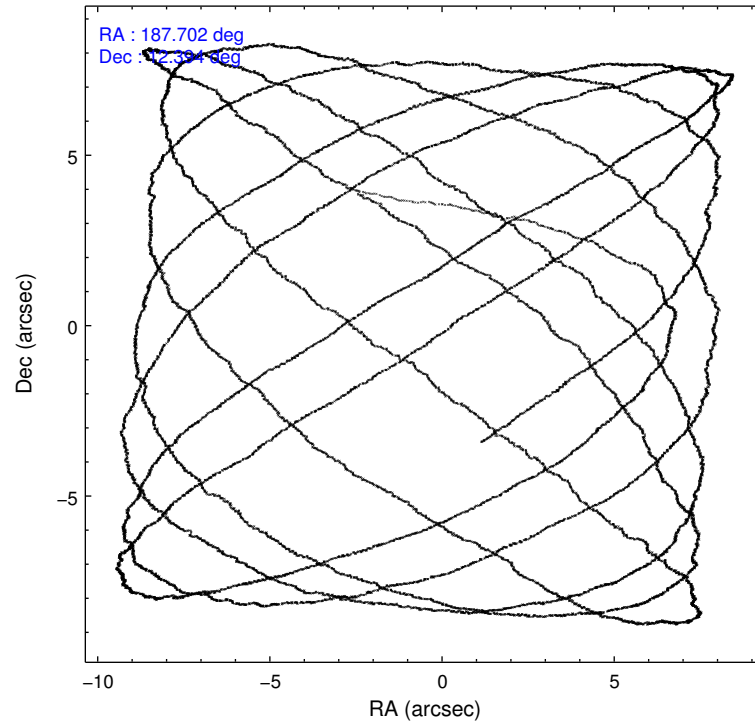
	ccd 7
level 1 events	34395
rejected events	3495
rejected %	10%

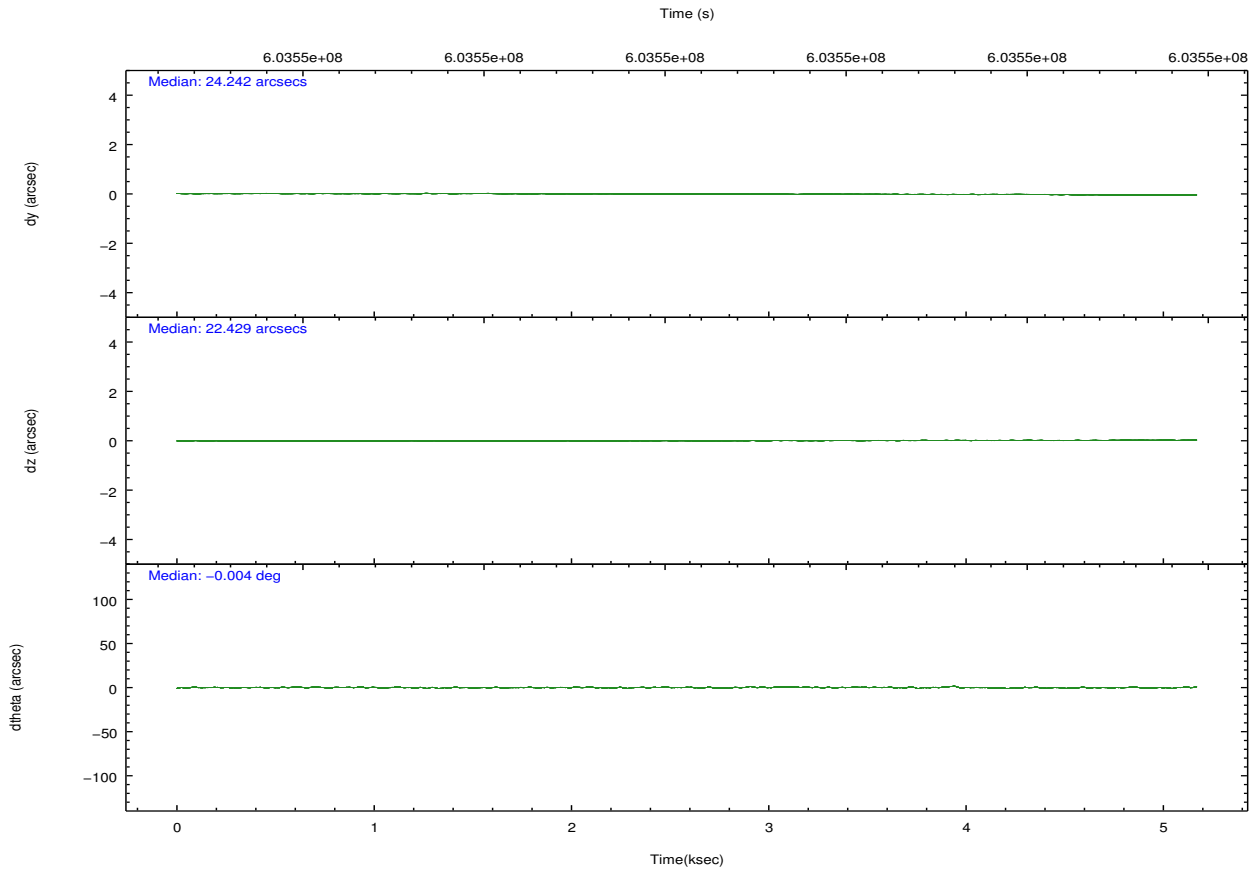
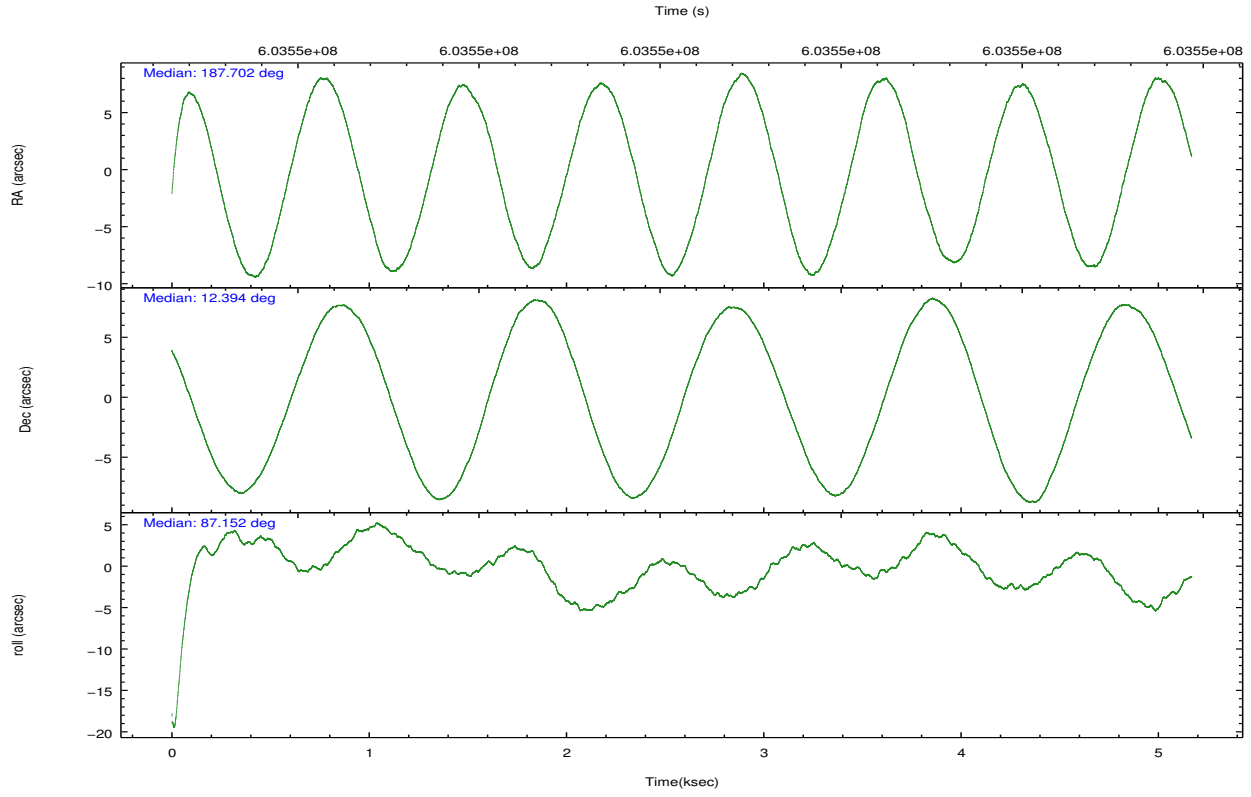
	ccd 7
grade 0 events	8323
	24%
grade 1 events	14
	0%
grade 2 events	8099
	23%
grade 3 events	3643
	10%
grade 4 events	3590
	10%
grade 5 events	778
	2%
grade 6 events	7254
	21%
grade 7 events	2694
	7%

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	187.714489	187.7013585065981	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.370061	12.39431973846639	Subarray start row	449	449
[deg] Pointing Roll	86.998147	87.15754563792539	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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	603546709.184000	603545975.07842			
Observation start date	2017-02-15T11:50:40	2017-02-15T11:39:35			
[s] Observation end time (MET)	603551709.184000	603552974.80383			
Observation end date	2017-02-15T13:14:00	2017-02-15T13:36:14			
Read mode	TIMED	TIMED			

2.3 Aspect



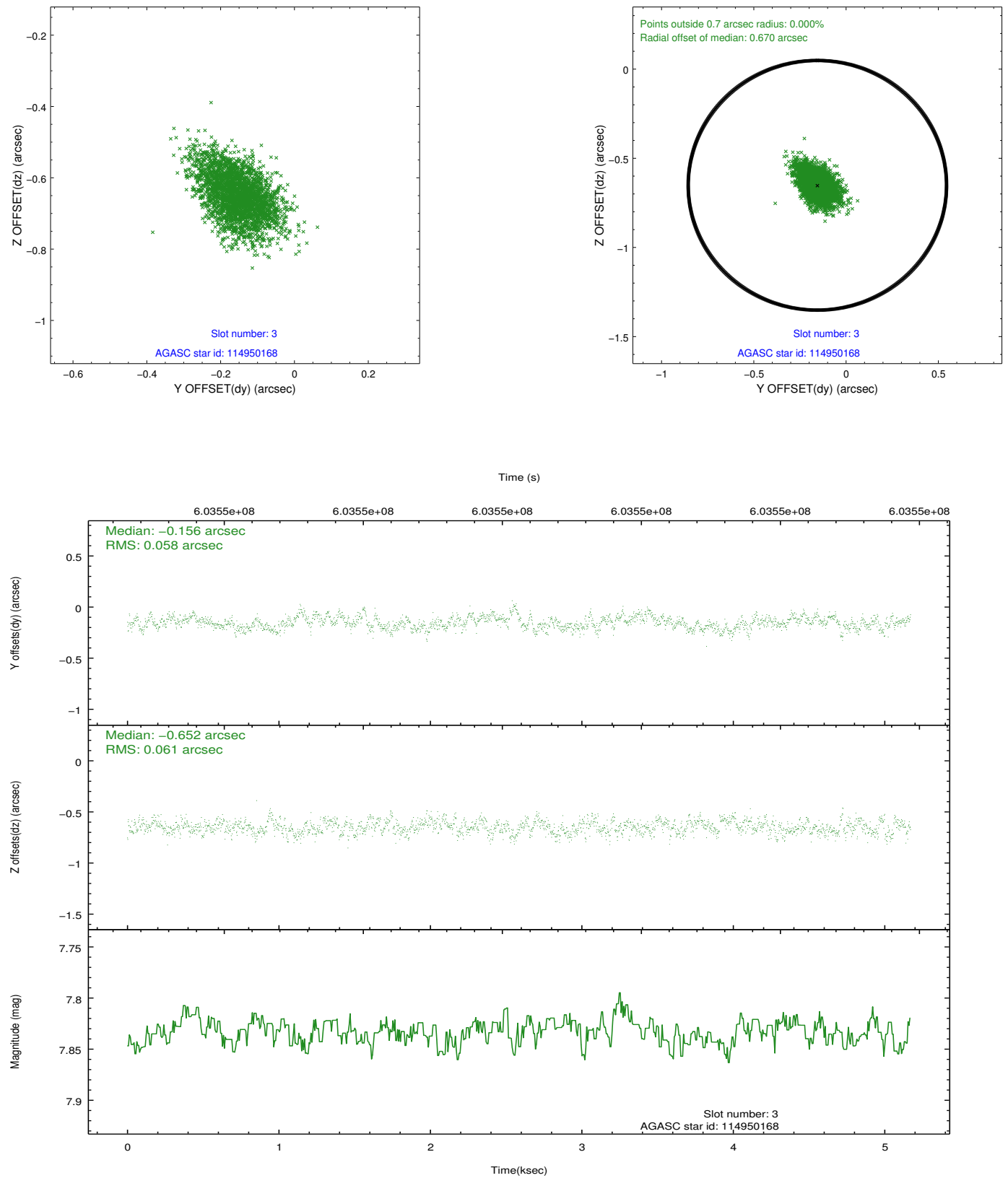


Slot Statistics

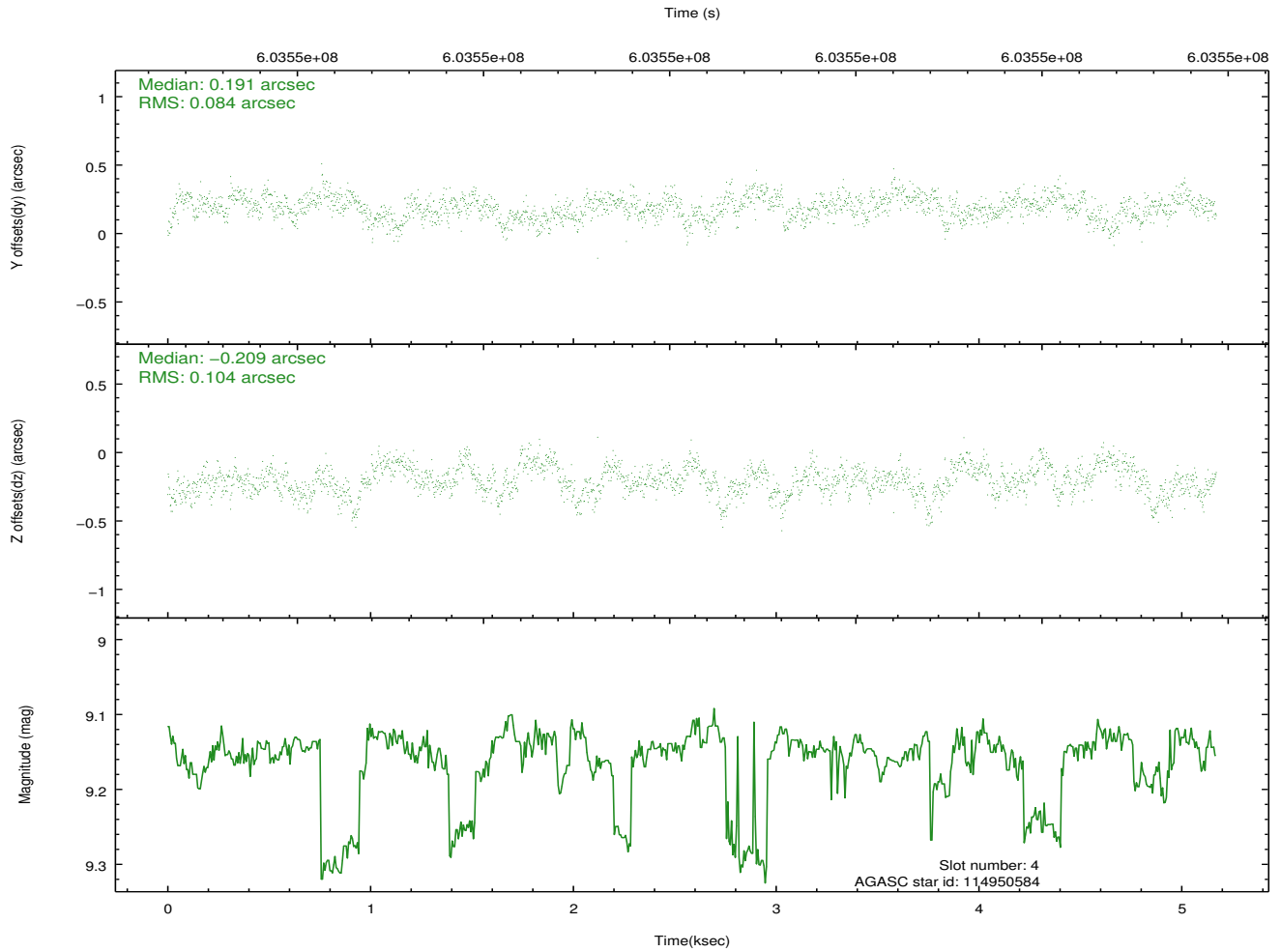
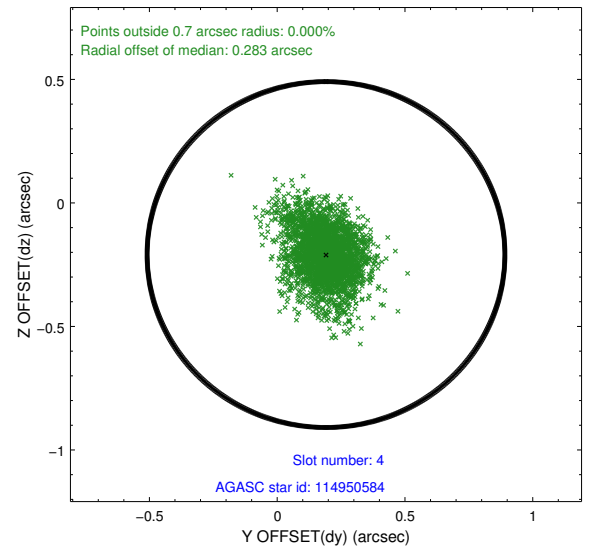
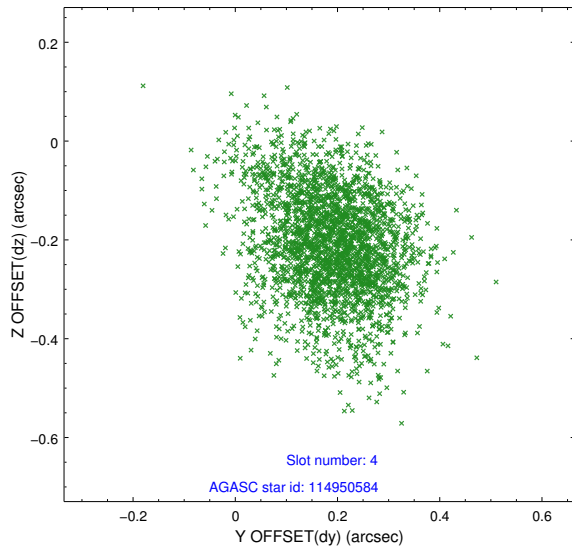
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	1261	-0.262	-0.142	0.007	0.011	0.000000	0.000000	-777.72	-1744.10
1	FID		ACIS-S-4	7.21	1261	0.569	0.164	0.006	0.009	0.000000	0.000000	2135.84	163.46
2	FID		ACIS-S-5	7.22	1261	-0.338	-0.014	0.007	0.012	0.000000	0.000000	-1829.14	158.30
3	GUIDE	used	114950168	7.83	2523	-0.156	-0.652	0.089	0.148	187.143398	12.117441	-1011.91	1959.58
4	GUIDE	used	114950584	9.15	2518	0.191	-0.209	0.138	0.238	187.487323	11.827248	-1993.35	698.53
5	GUIDE	used	114952824	8.54	2519	-0.213	-0.482	0.102	0.164	187.703904	12.486727	416.44	60.19
6	GUIDE	used	114955056	8.31	2522	0.301	1.000	0.138	0.222	187.914001	12.127854	-833.04	-745.20
7	GUIDE	used	114955568	7.50	2520	-0.120	0.351	0.088	0.158	187.061916	11.826551	-2072.22	2194.65

2.4 Star Slots

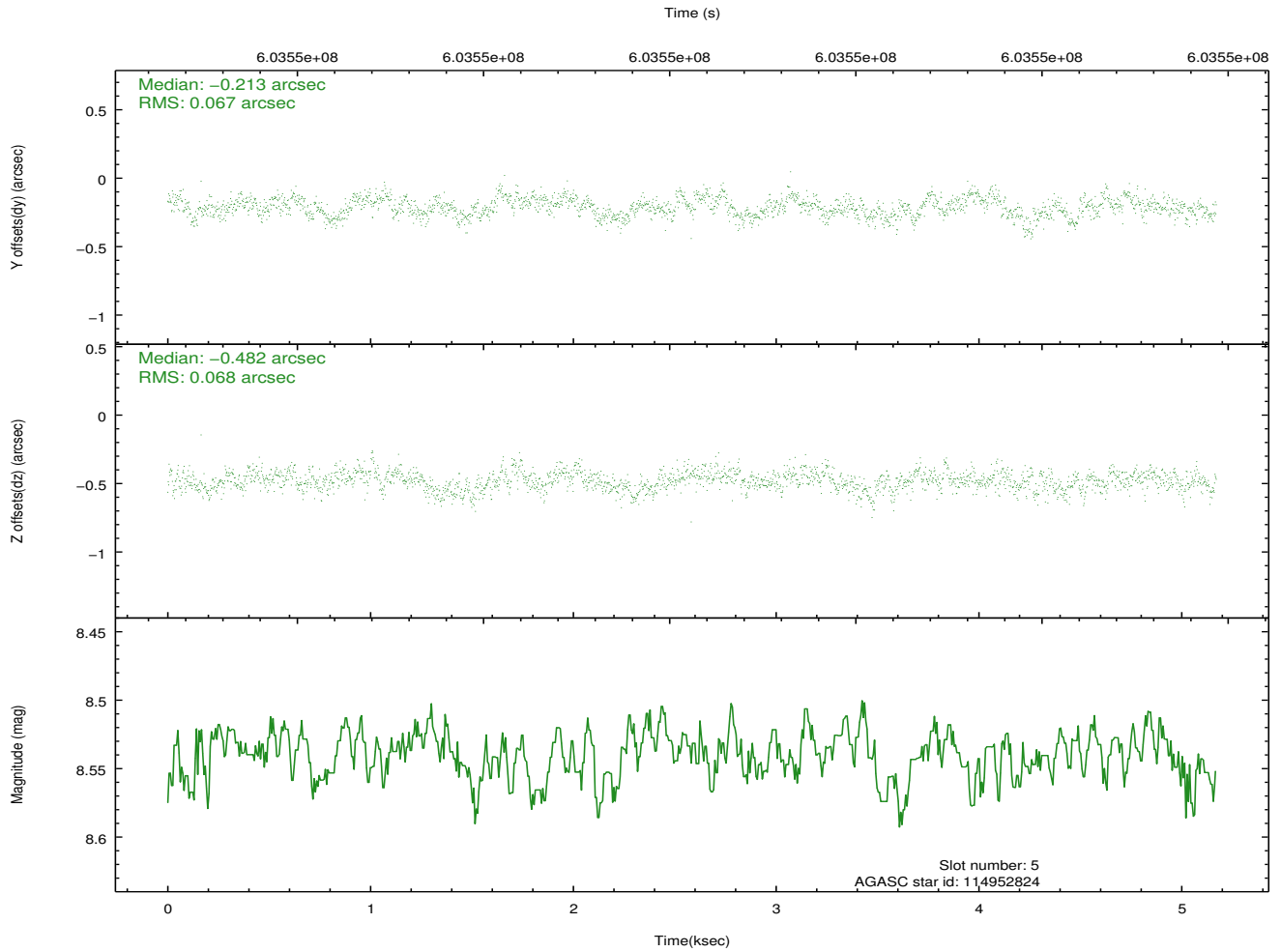
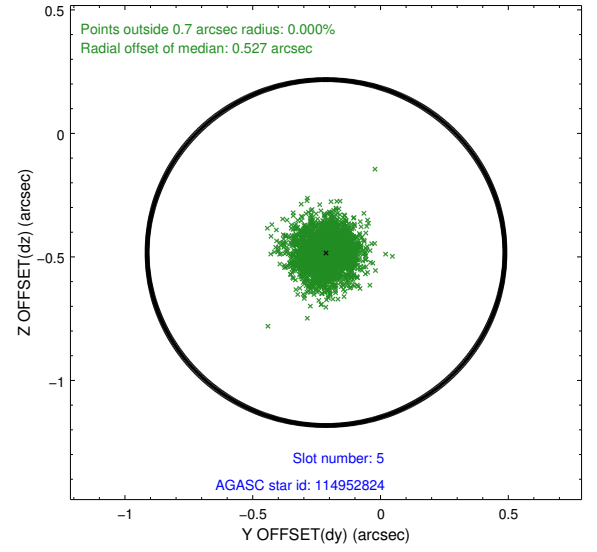
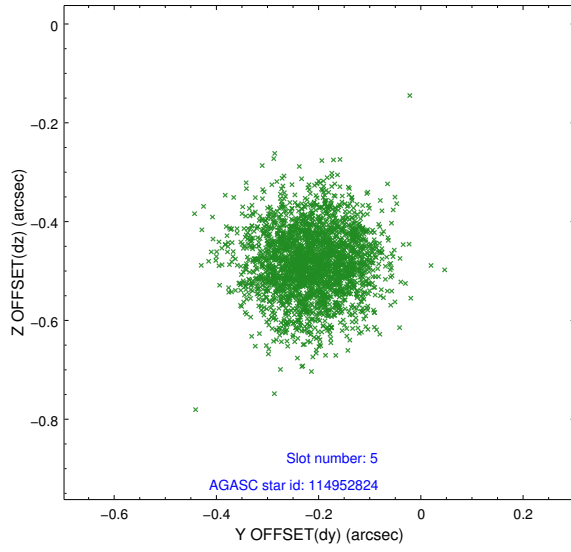
2.4.1 Slot 3



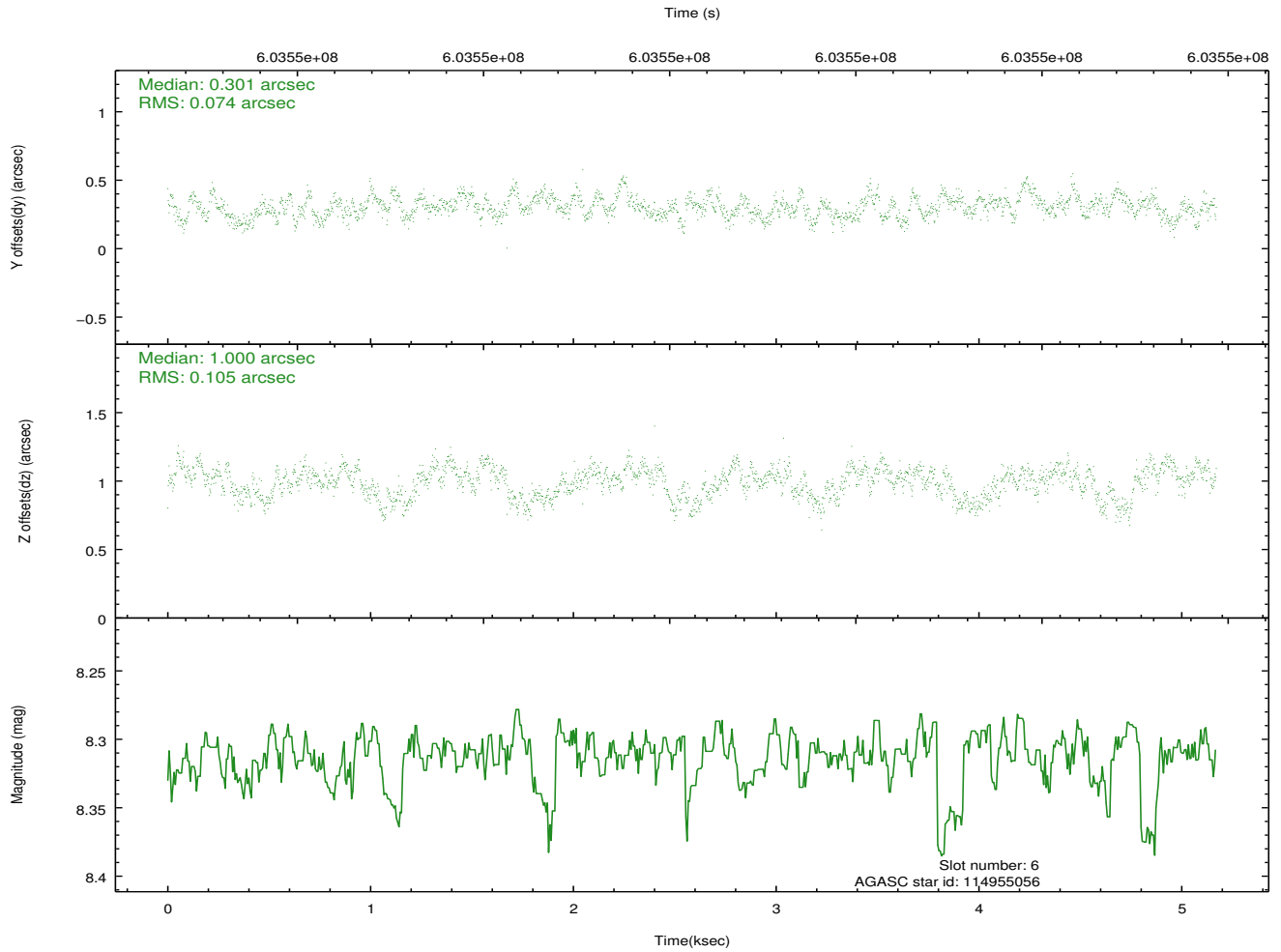
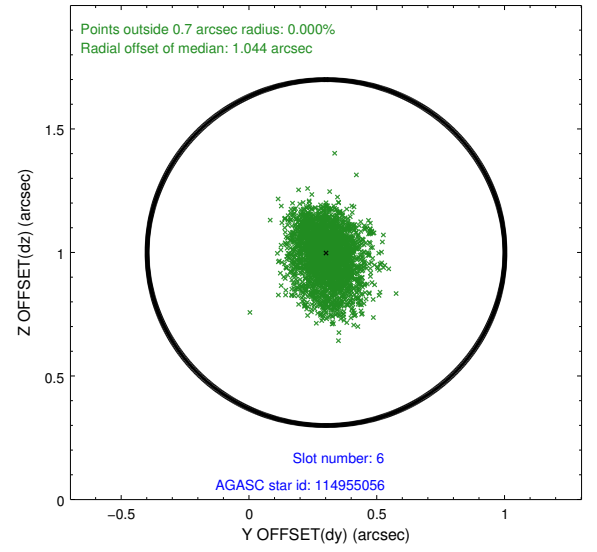
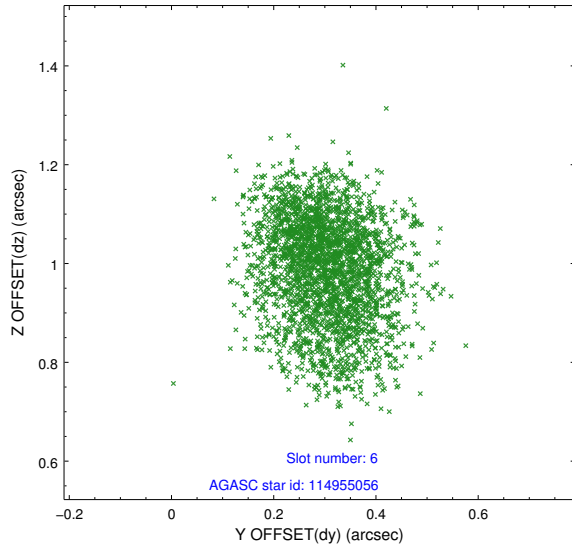
2.4.2 Slot 4



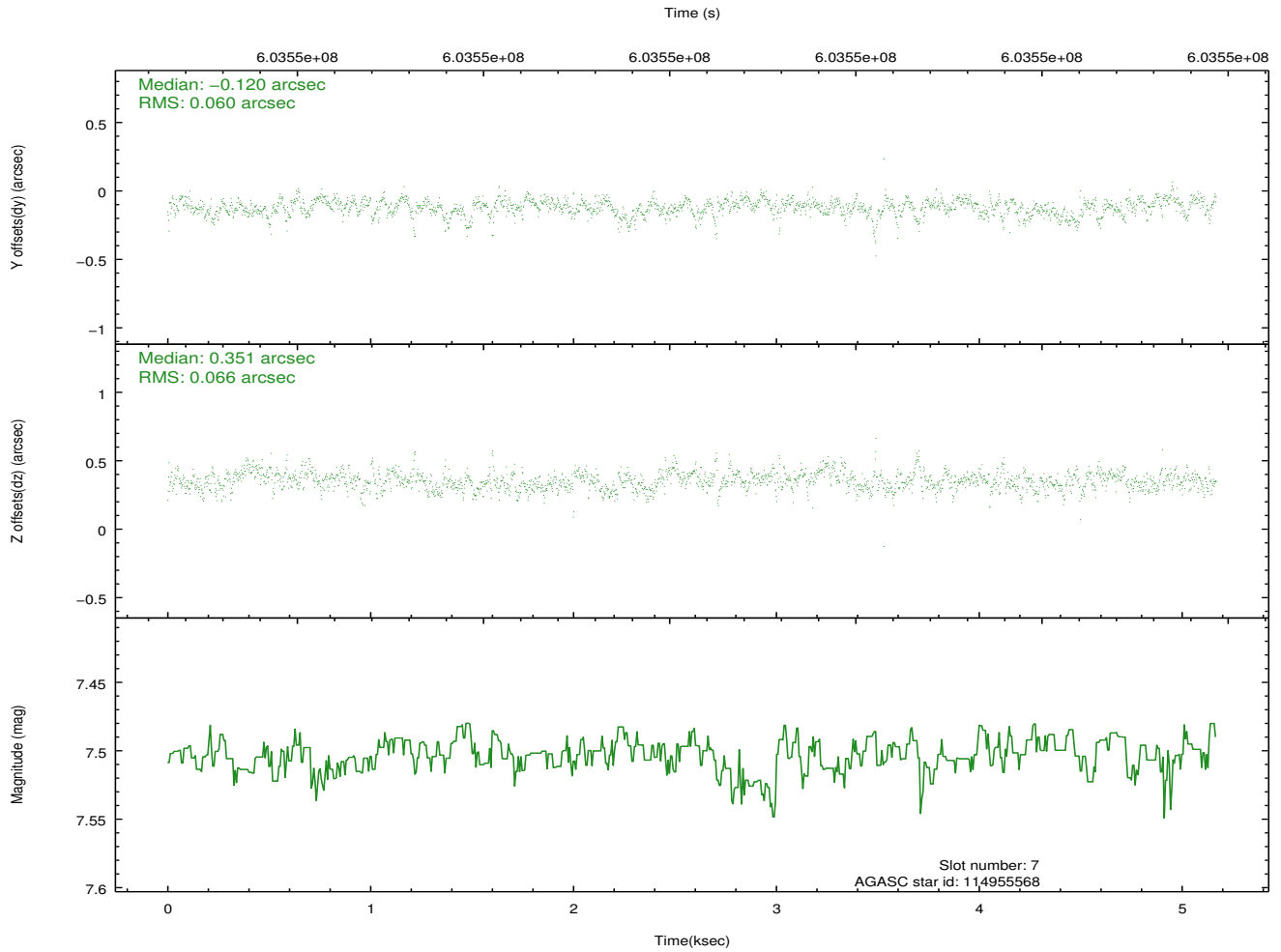
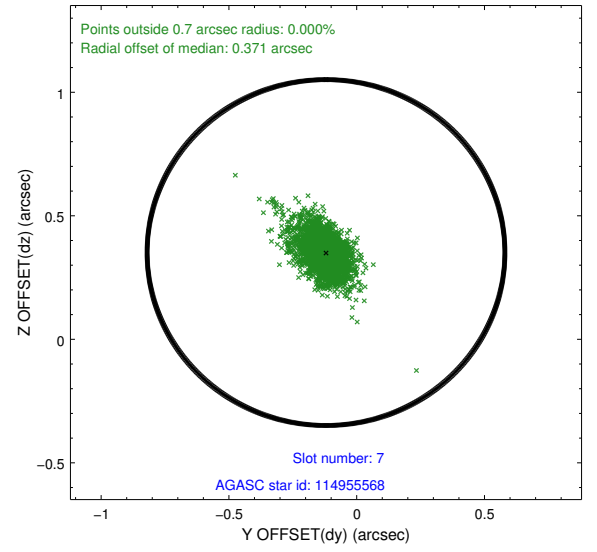
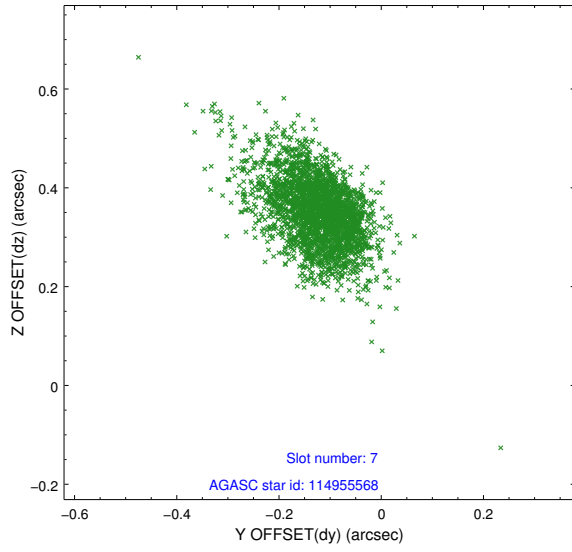
2.4.3 Slot 5



2.4.4 Slot 6

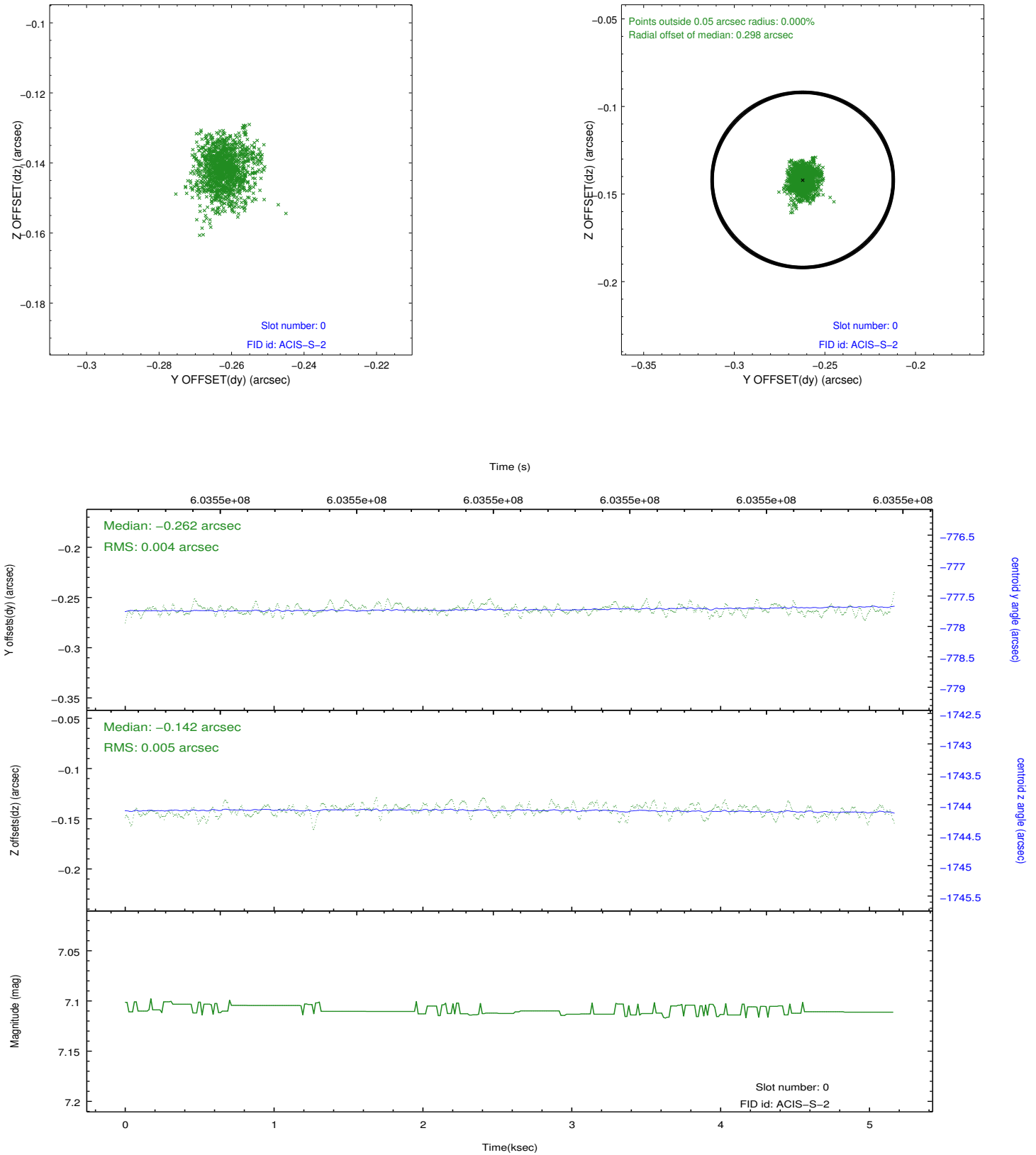


2.4.5 Slot 7

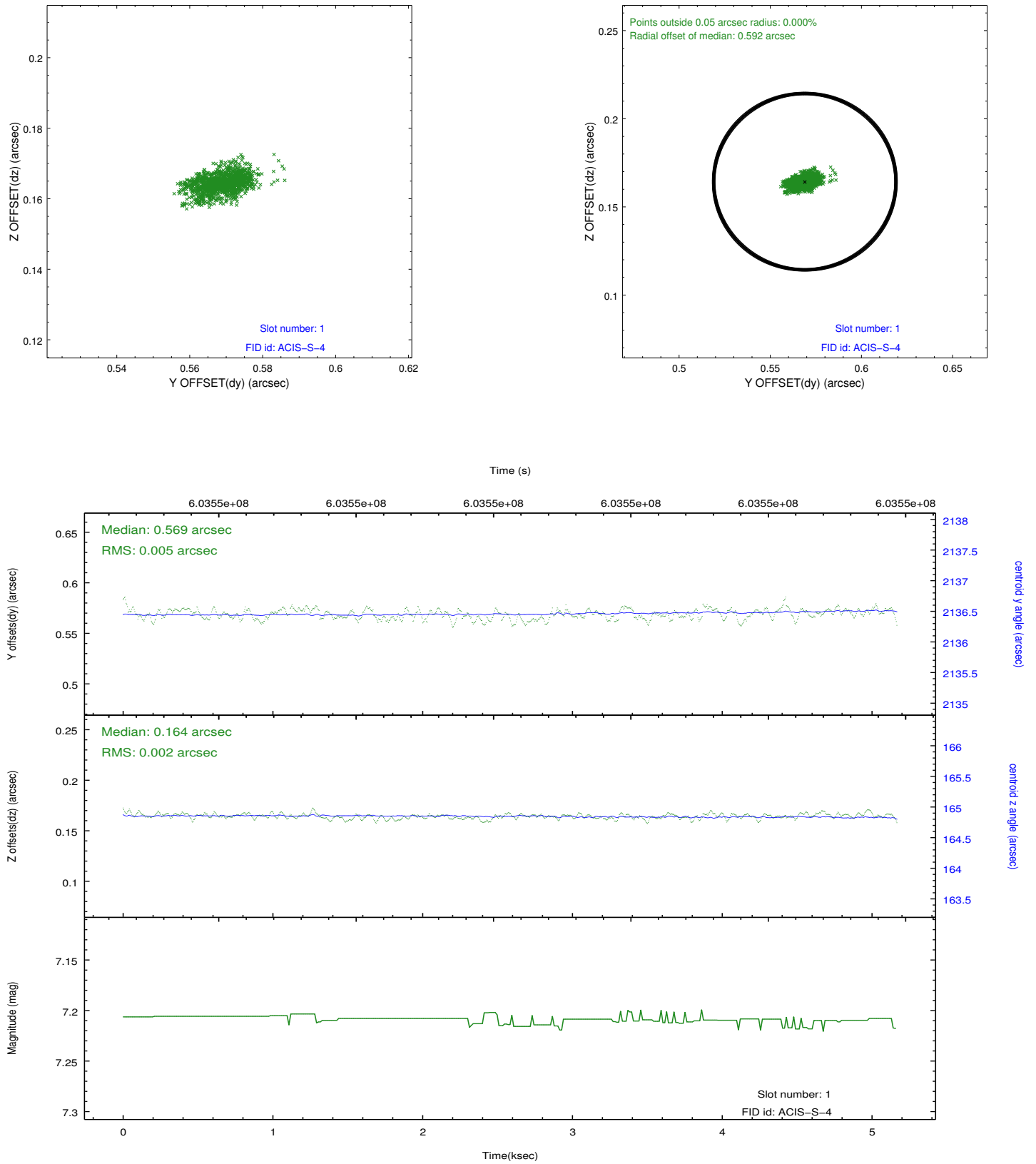


2.5 FID Slots

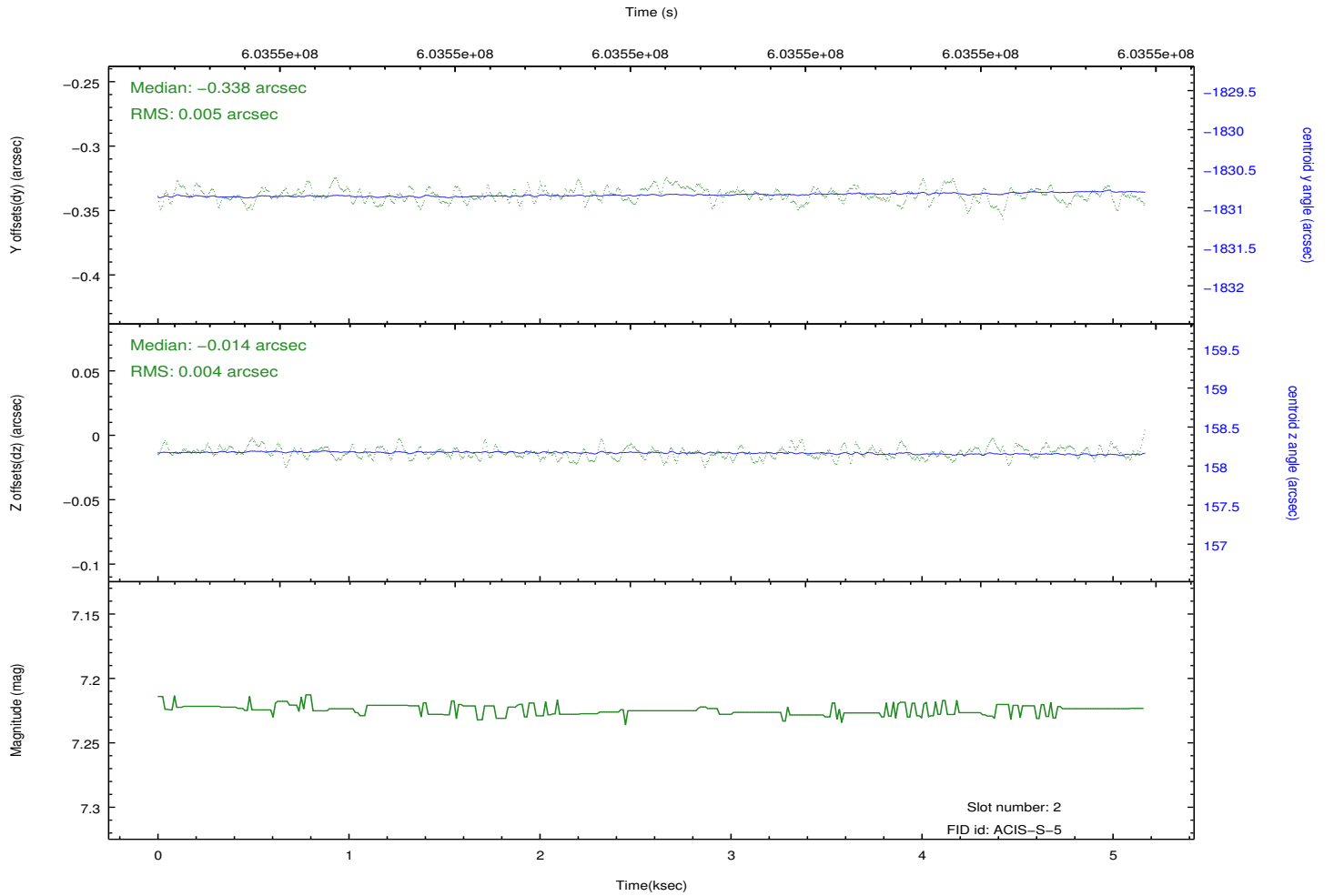
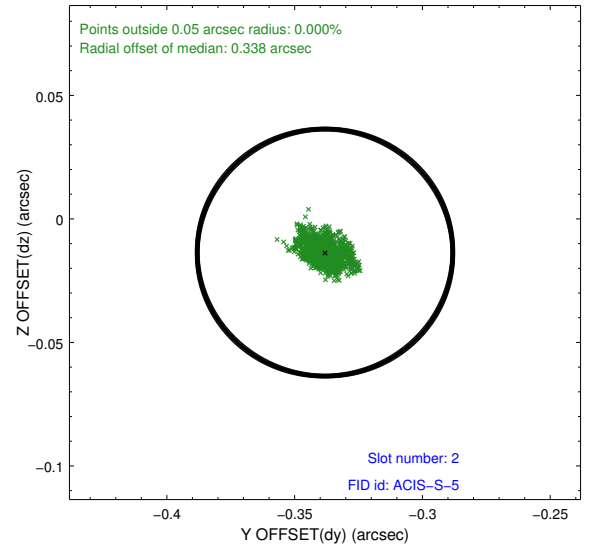
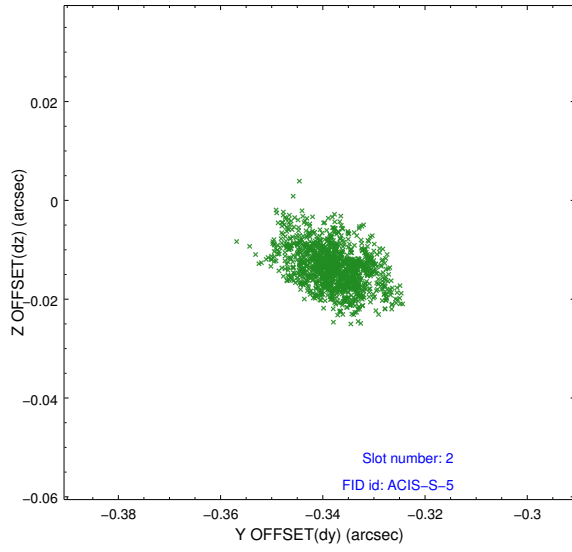
2.5.1 Slot 0



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)	2017.02.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0691996977329

A.2 Comments

Observation coordinated with NuSTAR.