

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17027 - L2 Version 1
Chandra X-Ray Center

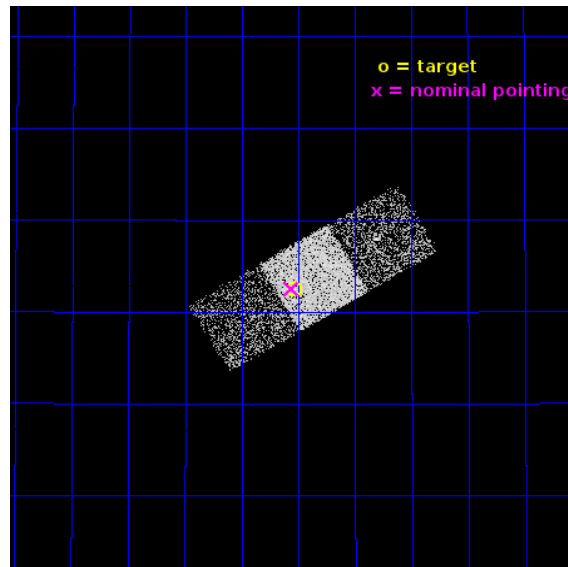
L2 Processing Date : Oct 7 2015

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1 Front

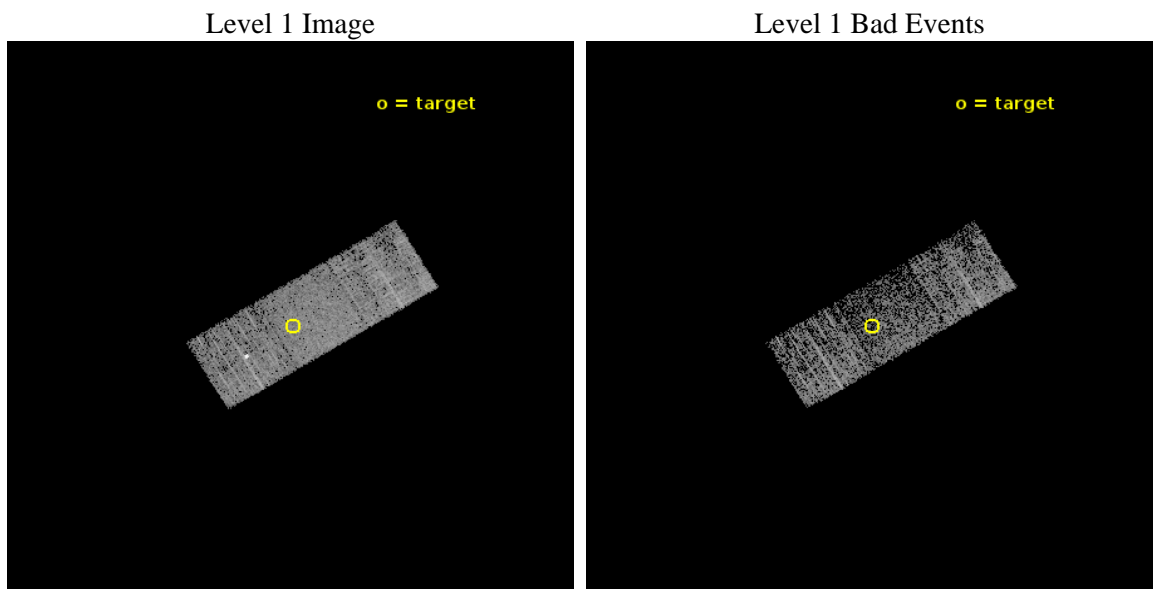
seq_num	703031	Sequence number
obs_id	17027	Observation id
title	Shielding Gas Variations in Transforming Broad Absorption Line Quasars	Proposal title
observer	Prof. William Brandt	Principal investigator
object	SDSS J1421+3752	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.383333	Observer's specified target RA [deg]
dec_targ	37.875083	Observer's specified target Dec [deg]
ra_nom	215.39041819358	Nominal RA [deg]
dec_nom	37.875786422289	Nominal Dec [deg]
roll_nom	328.83681011701	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3575.9415955544	Sum of GTIs [s]
livetime	3529.2192860385	Livetime [s]
ontime6	3575.9005556107	Sum of GTIs [s]
ontime7	3575.9415955544	Sum of GTIs [s]
ontime8	3575.8595155478	Sum of GTIs [s]
l2events	12902	Number of level 2 events



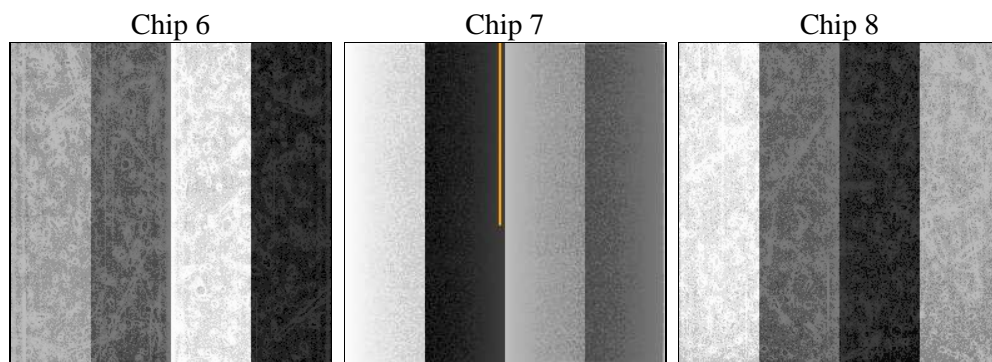
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	3575.9415955544	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime6	3575.9005556107	Sum of GTIs [s]
date	2015-10-07T15:28:46	Date and time of file creation	ontime7	3575.9415955544	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	3575.8595155478	Sum of GTIs [s]
			l1events	62742	Number of level 1 events

2.1.4 Events

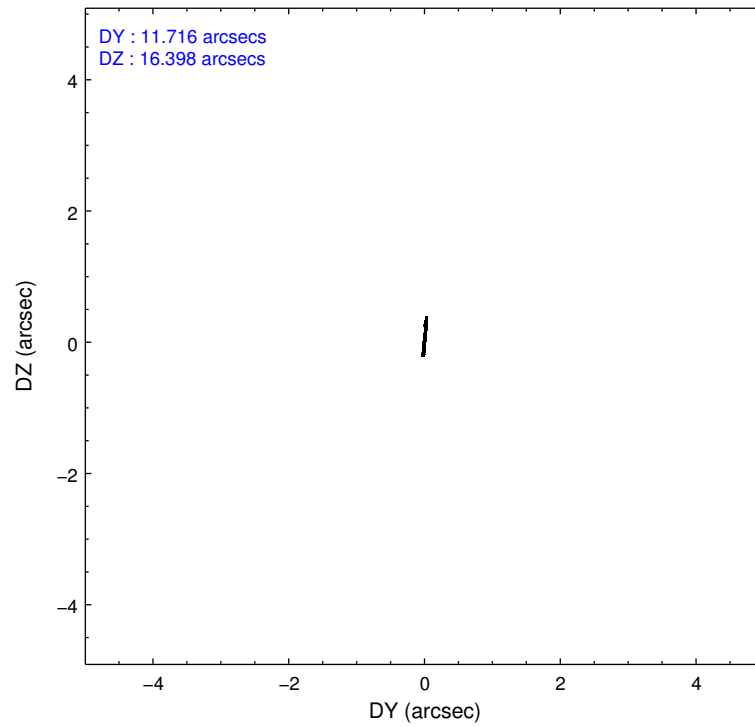
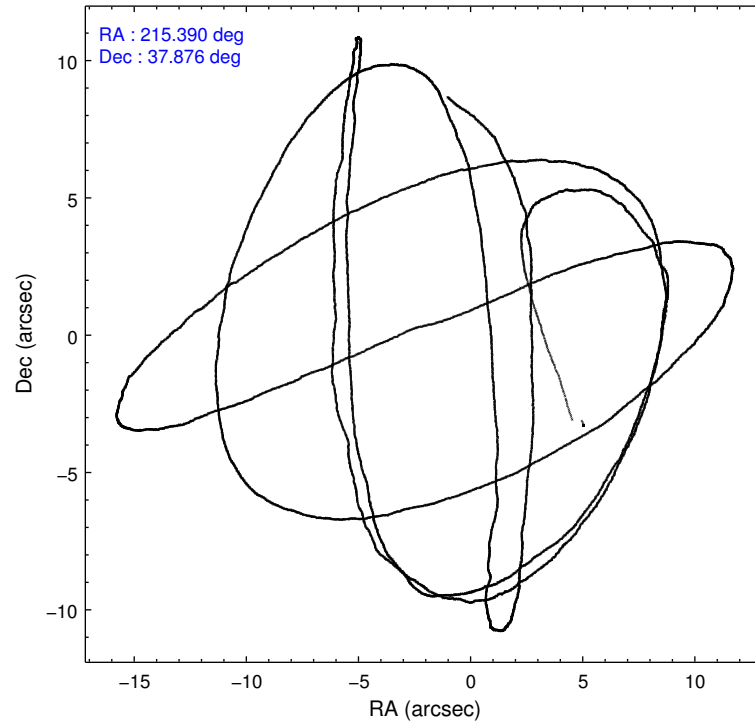
	ccd 6	ccd 7	ccd 8
level 1 events	20302	20092	22348
rejected events	16131	10647	16433
rejected %	79%	52%	73%

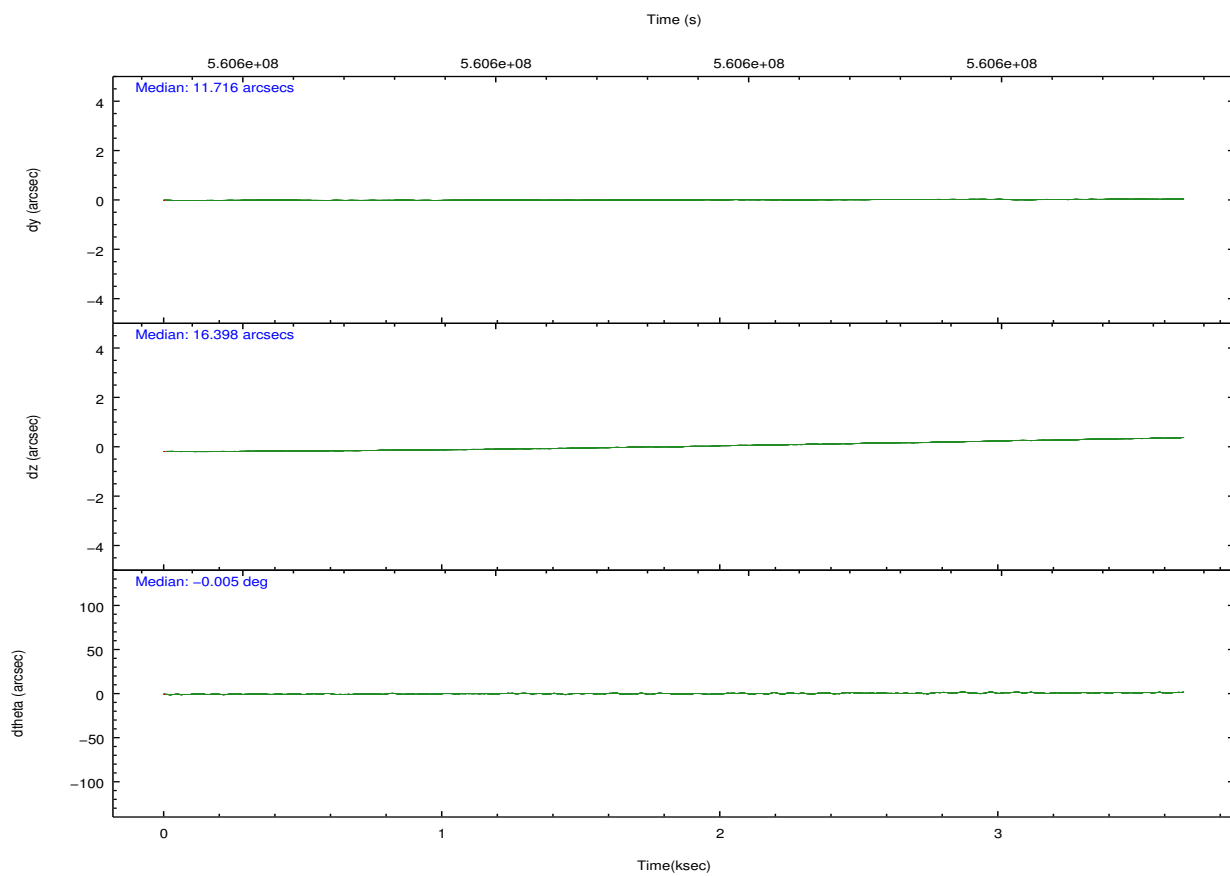
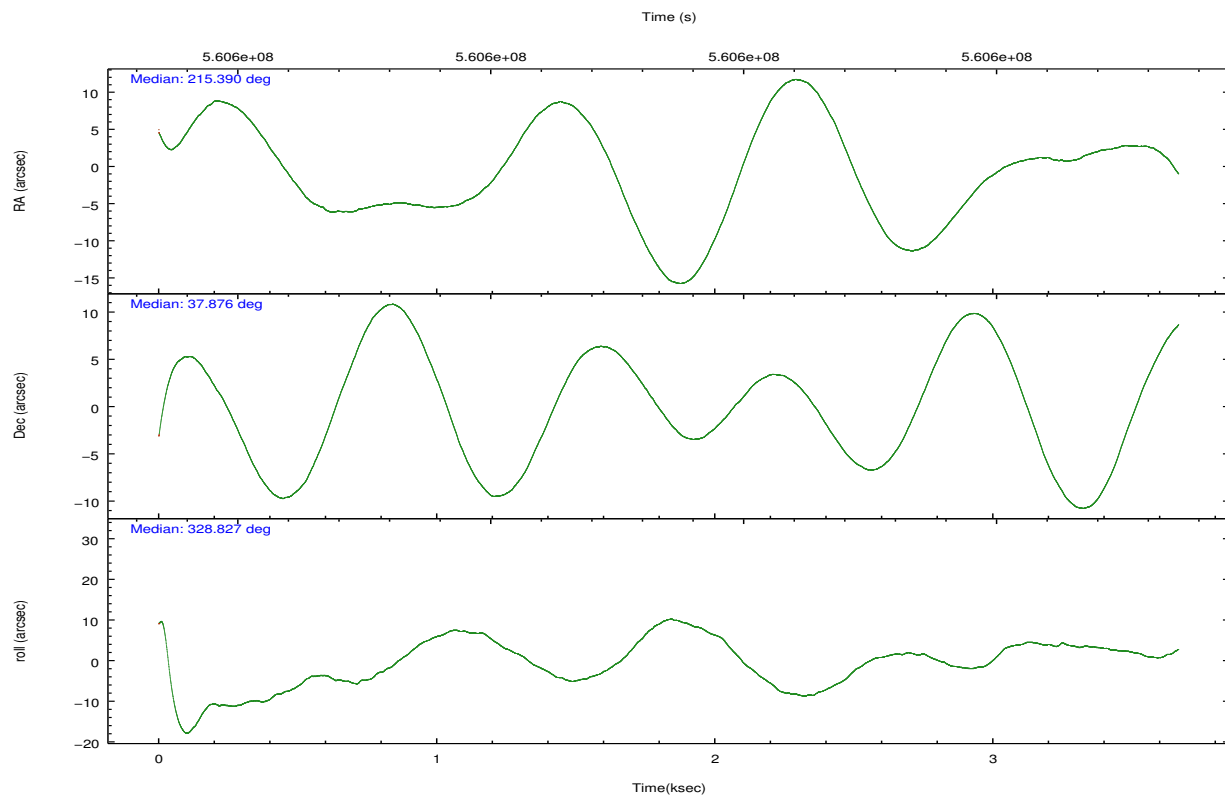
	ccd 6	ccd 7	ccd 8
grade 0 events	1808	804	1656
	8%	4%	7%
grade 1 events	13	34	12
	0%	0%	0%
grade 2 events	1552	2009	1406
	7%	9%	6%
grade 3 events	194	793	587
	0%	3%	2%
grade 4 events	203	675	594
	0%	3%	2%
grade 5 events	755	1977	1126
	3%	9%	5%
grade 6 events	422	5178	1697
	2%	25%	7%
grade 7 events	15355	8622	15270
	75%	42%	68%

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	215.355381	215.390418193576	Subarray requested	NONE	NONE
[deg] Pointing Dec	37.876015	37.87578642228868	Alternating exposures requested	N	N
[deg] Pointing Roll	328.701593	328.8368101170144	[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)	560595050.184000	560593812.00827			
Observation start date	2015-10-07T08:49:42	2015-10-07T08:30:12			
[s] Observation end time (MET)	560598550.184000	560600063.99612			
Observation end date	2015-10-07T09:48:02	2015-10-07T10:14:23			
Read mode	TIMED	TIMED			

2.3 Aspect



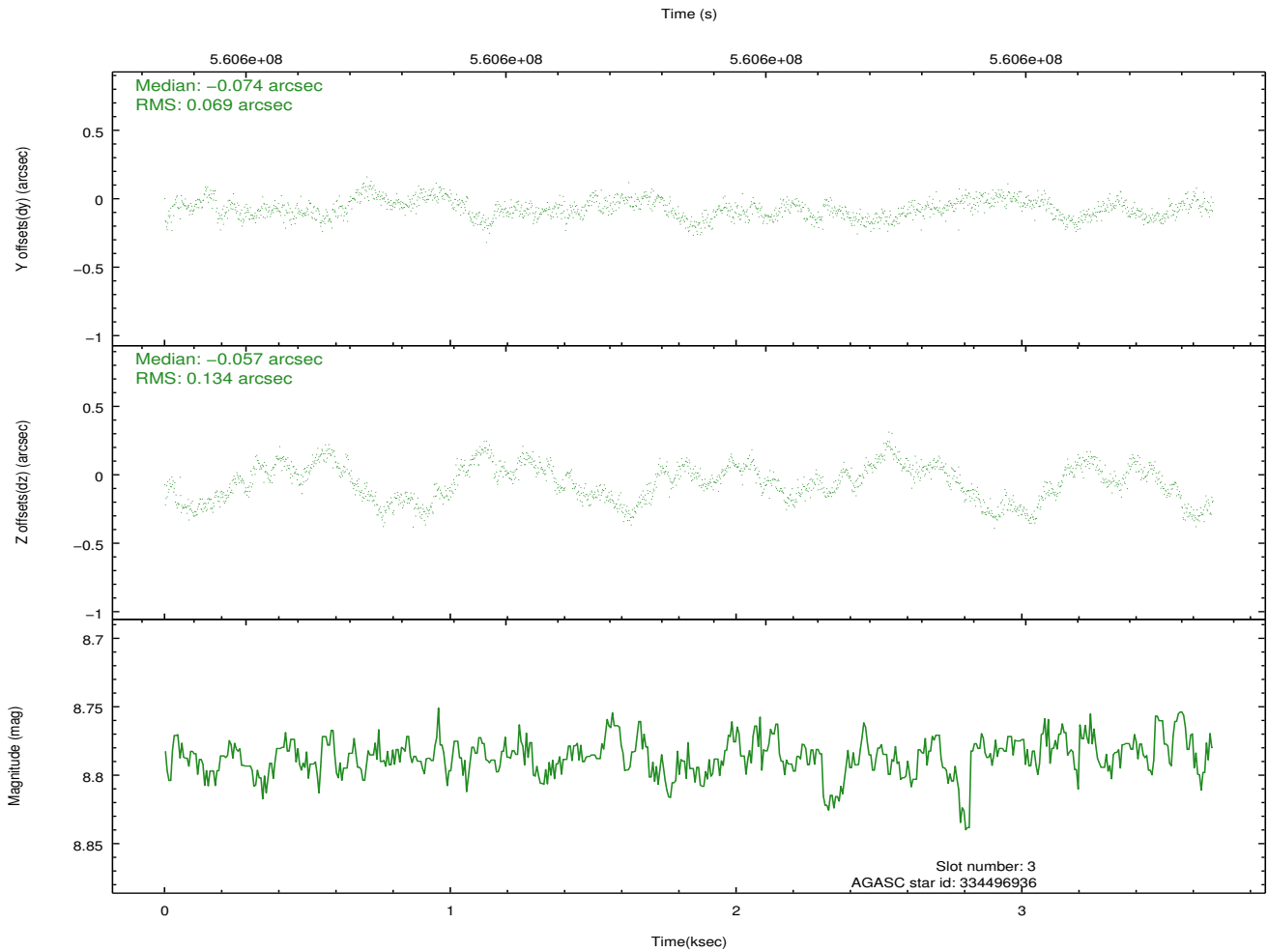
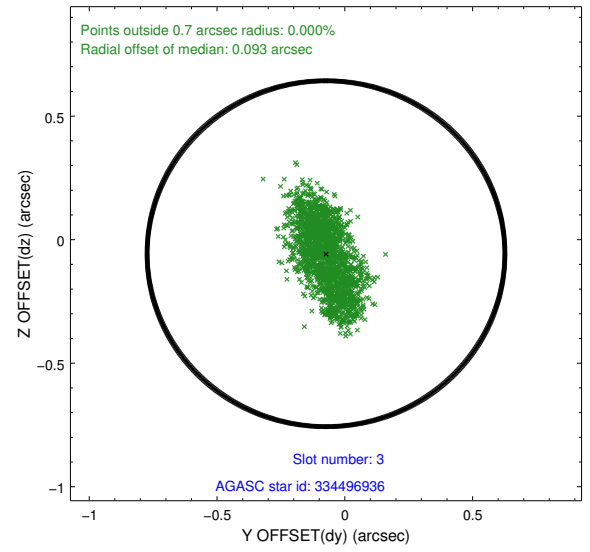
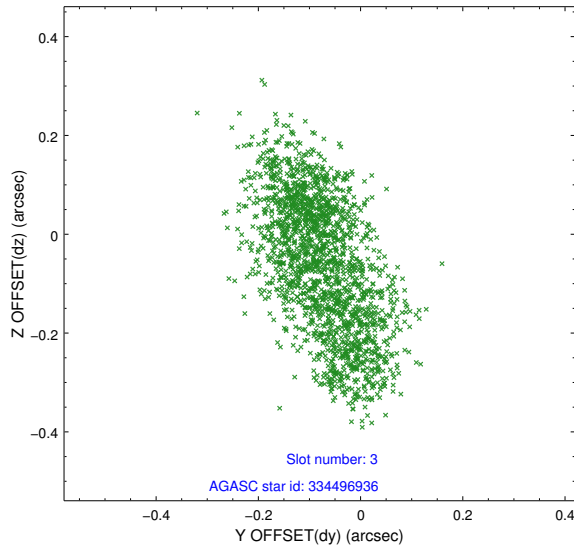


Slot Statistics

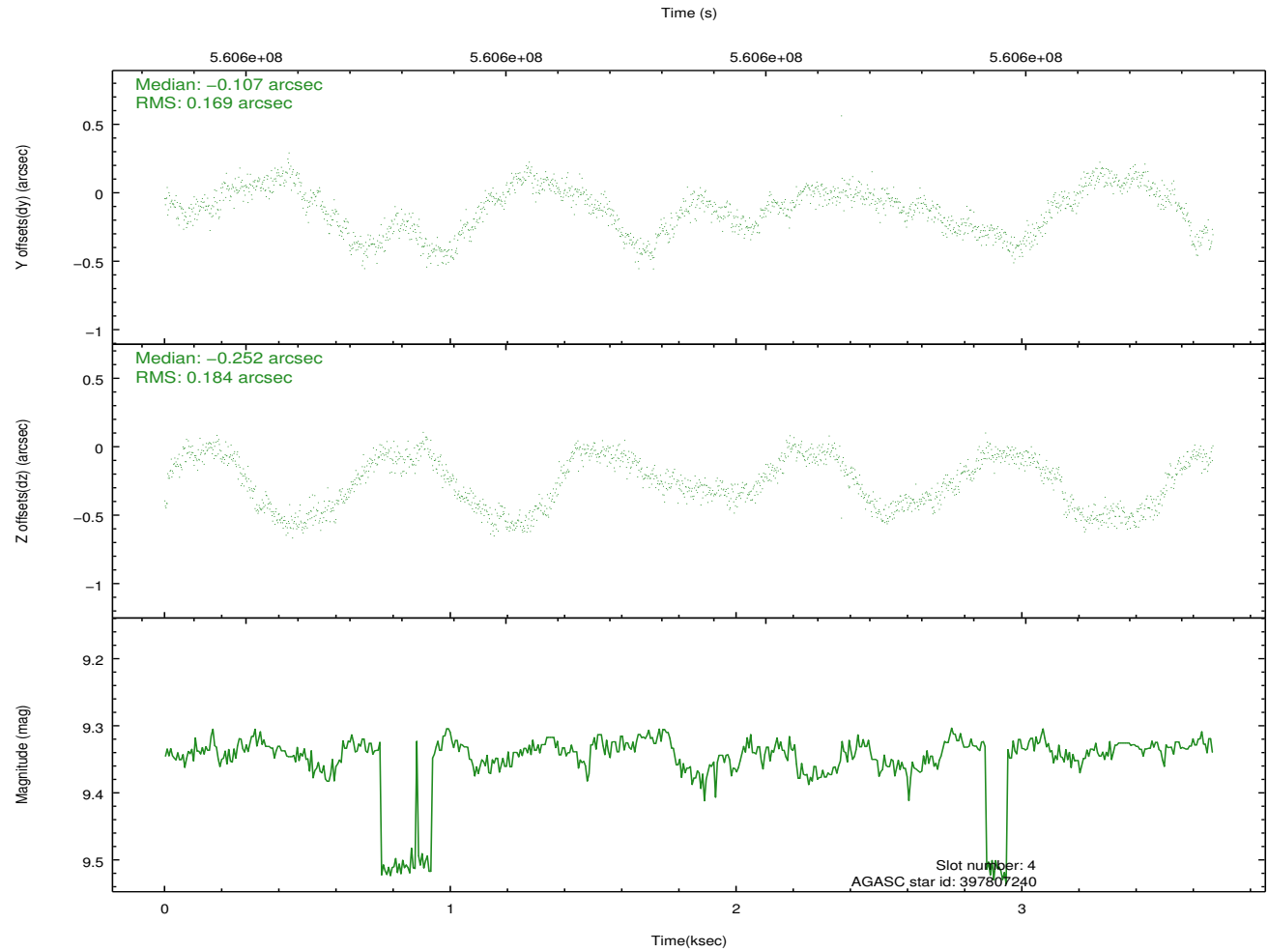
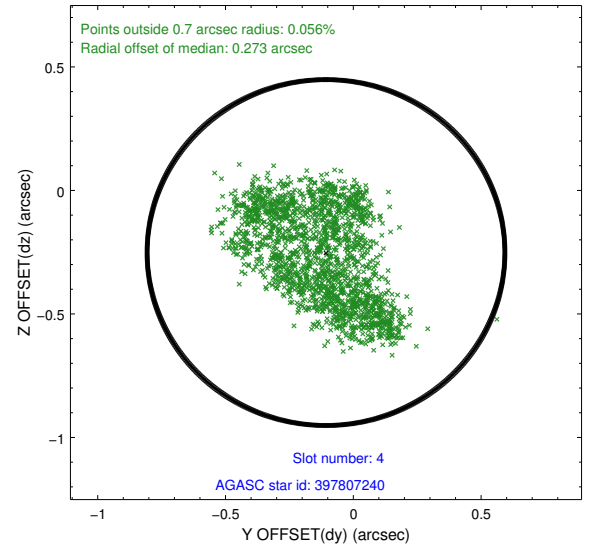
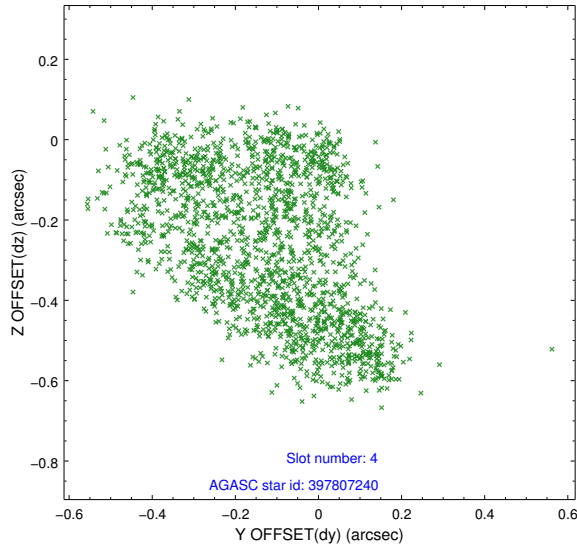
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	893	-0.120	-0.061	0.010	0.016	0.000000	0.000000	-764.69	-1737.82
1	FID		ACIS-S-4	7.22	895	0.338	0.074	0.006	0.011	0.000000	0.000000	2148.23	169.06
2	FID		ACIS-S-5	7.25	895	-0.250	-0.005	0.010	0.015	0.000000	0.000000	-1815.49	164.55
3	GUIDE	used	334496936	8.79	1789	-0.074	-0.057	0.163	0.260	215.286913	37.401026	719.36	-1563.79
4	GUIDE	used	397807240	9.34	1785	-0.107	-0.252	0.274	0.394	214.995359	38.408308	-1864.57	1109.53
5	GUIDE	used	397807680	10.27	1781	0.165	0.047	0.178	0.288	215.076133	37.956219	-833.20	-162.66
6	GUIDE	used	397808016	9.34	1789	0.063	0.155	0.196	0.285	214.946489	37.947013	-1126.83	-382.58
7	GUIDE	used	397813024	10.02	1783	-0.032	0.128	0.196	0.302	214.325104	37.598266	-2000.53	-2367.37

2.4 Star Slots

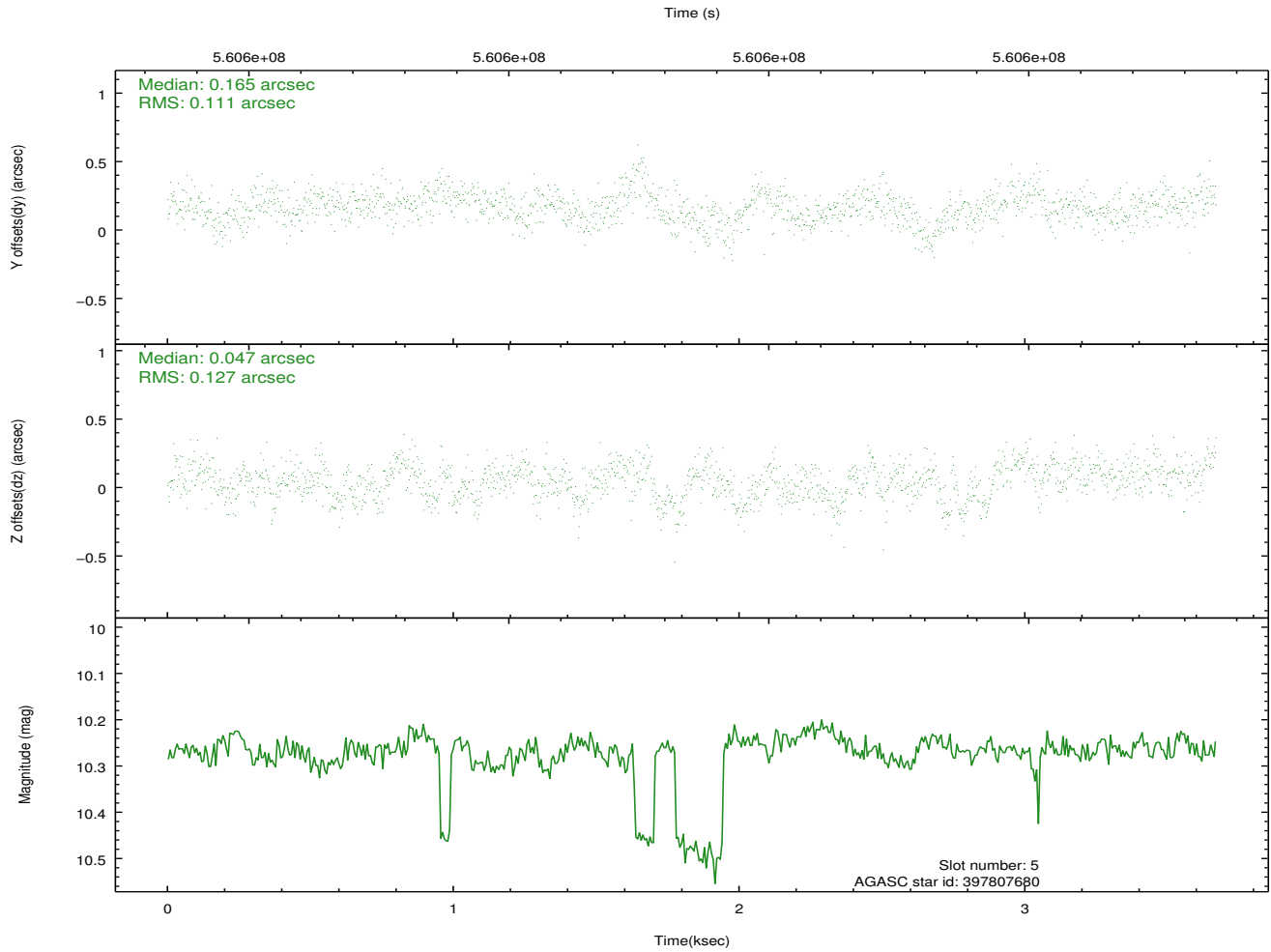
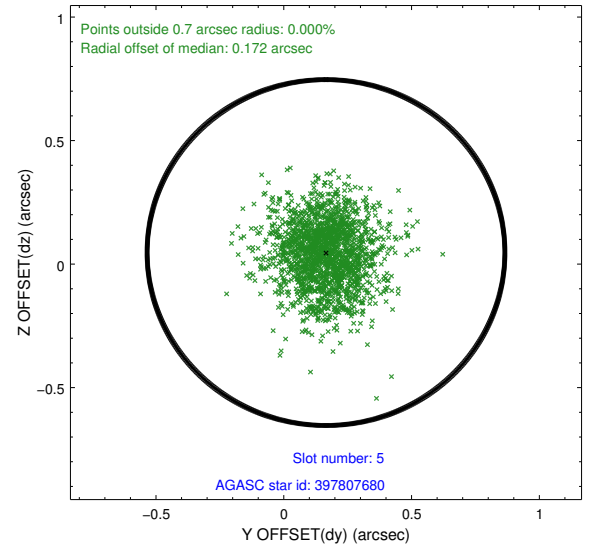
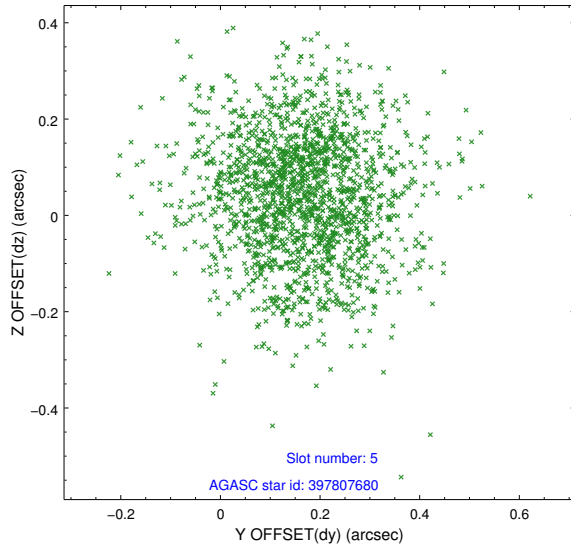
2.4.1 Slot 3



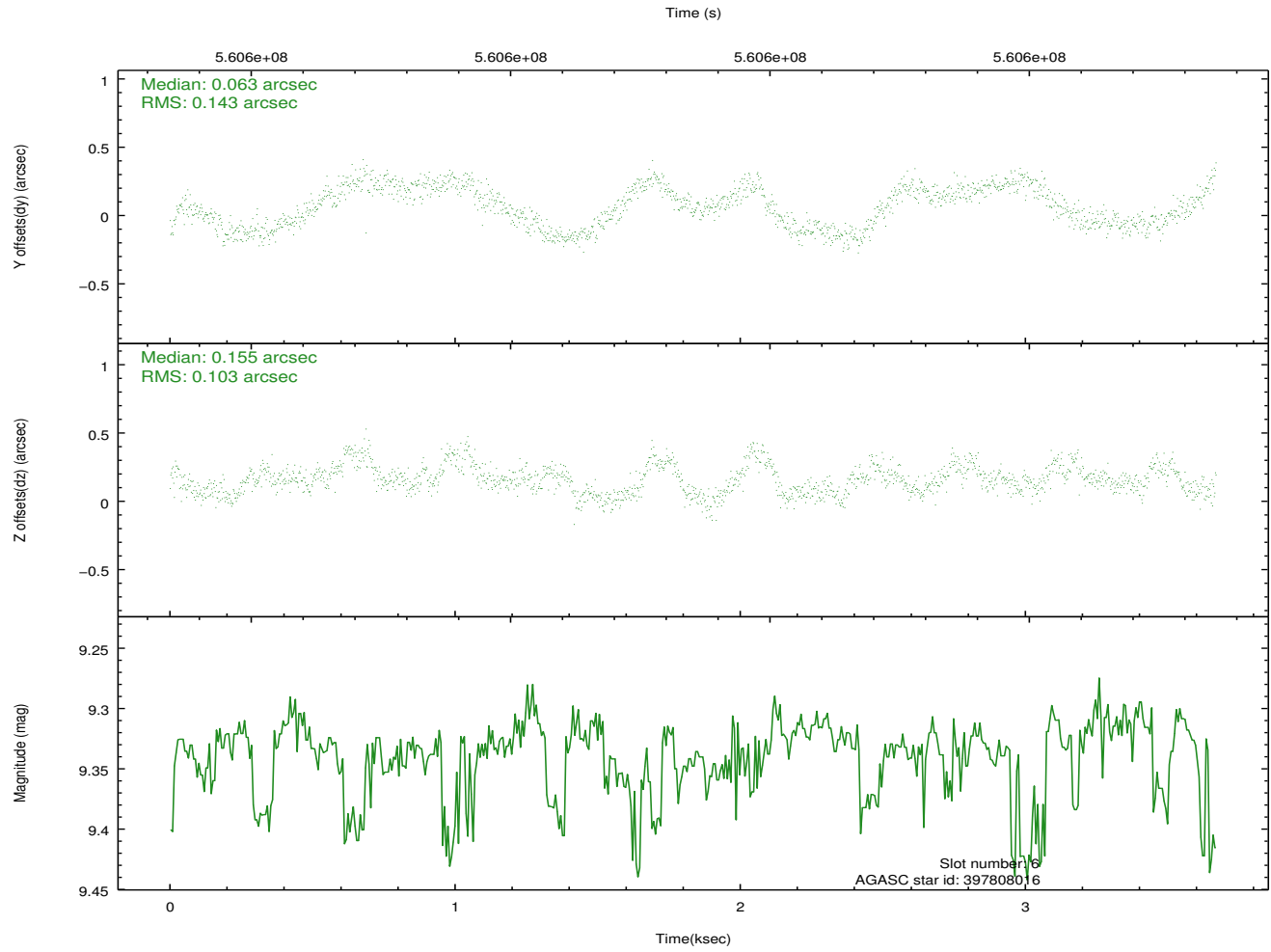
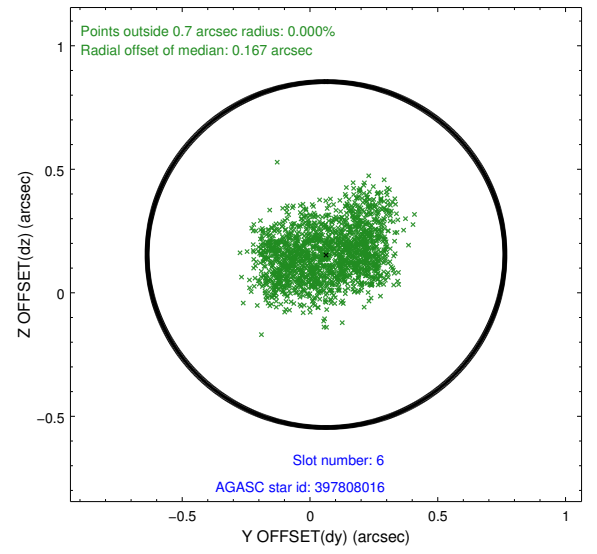
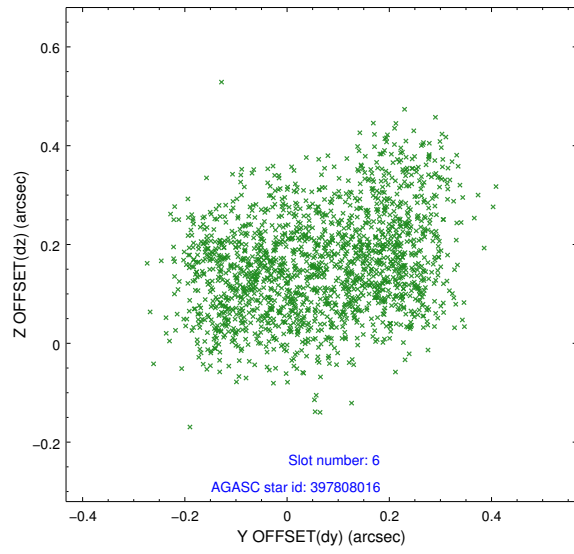
2.4.2 Slot 4



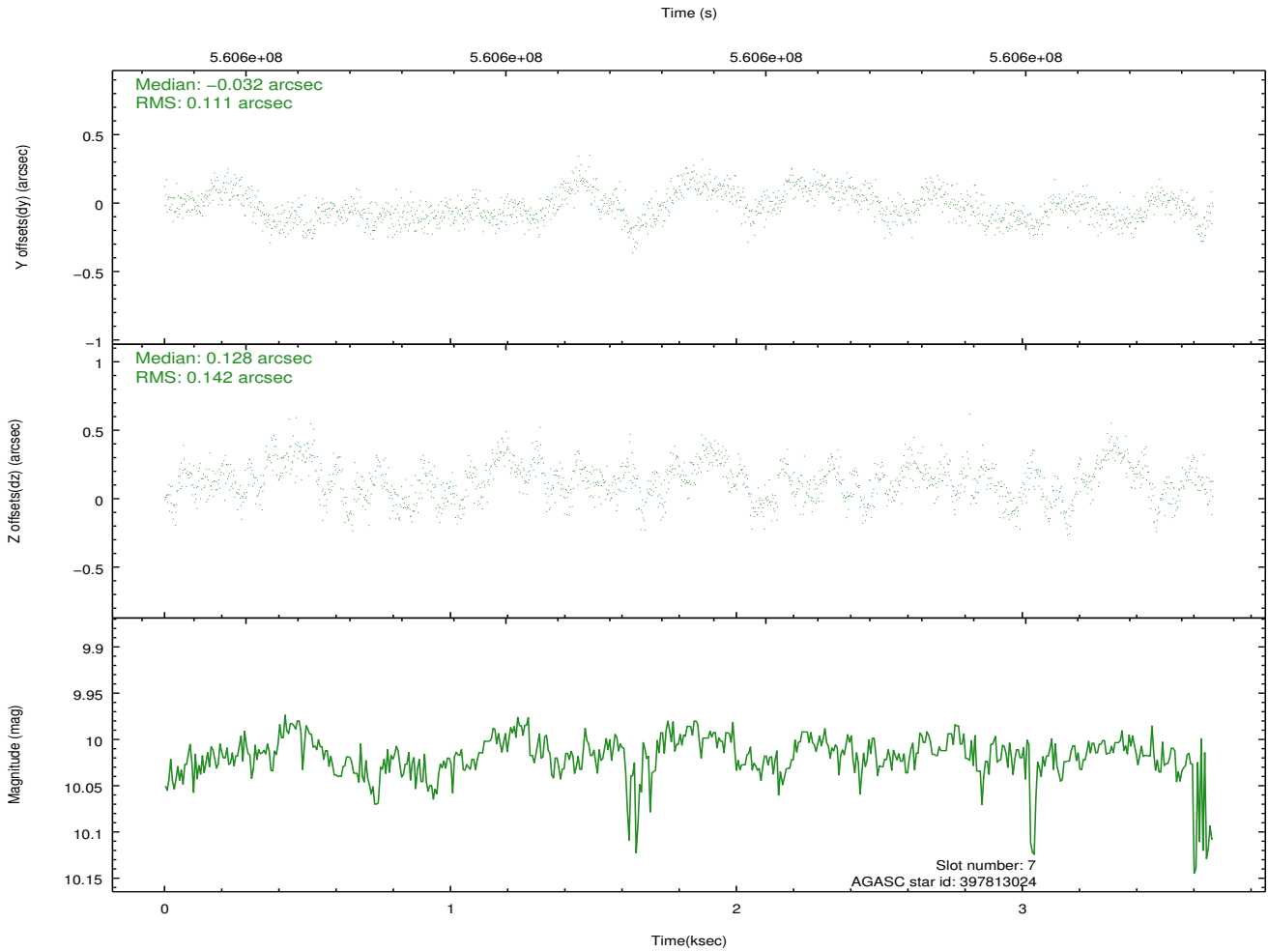
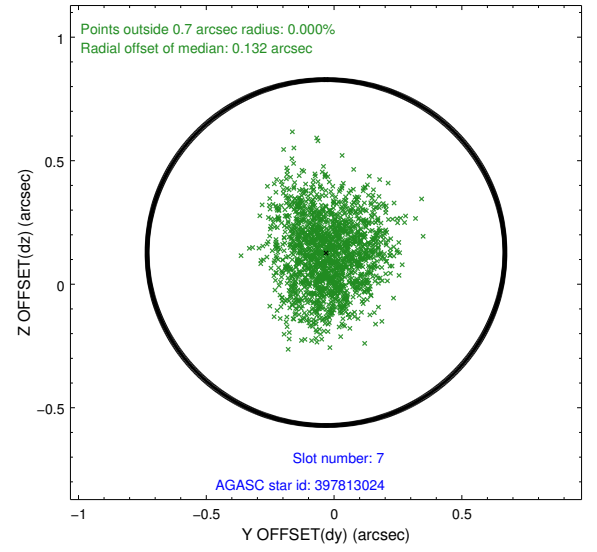
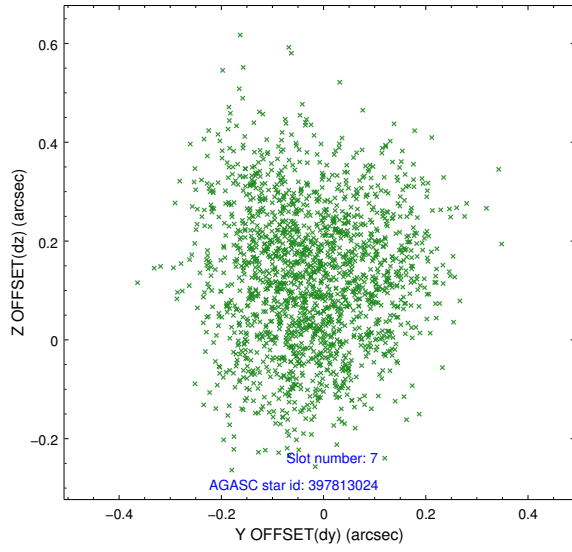
2.4.3 Slot 5



2.4.4 Slot 6

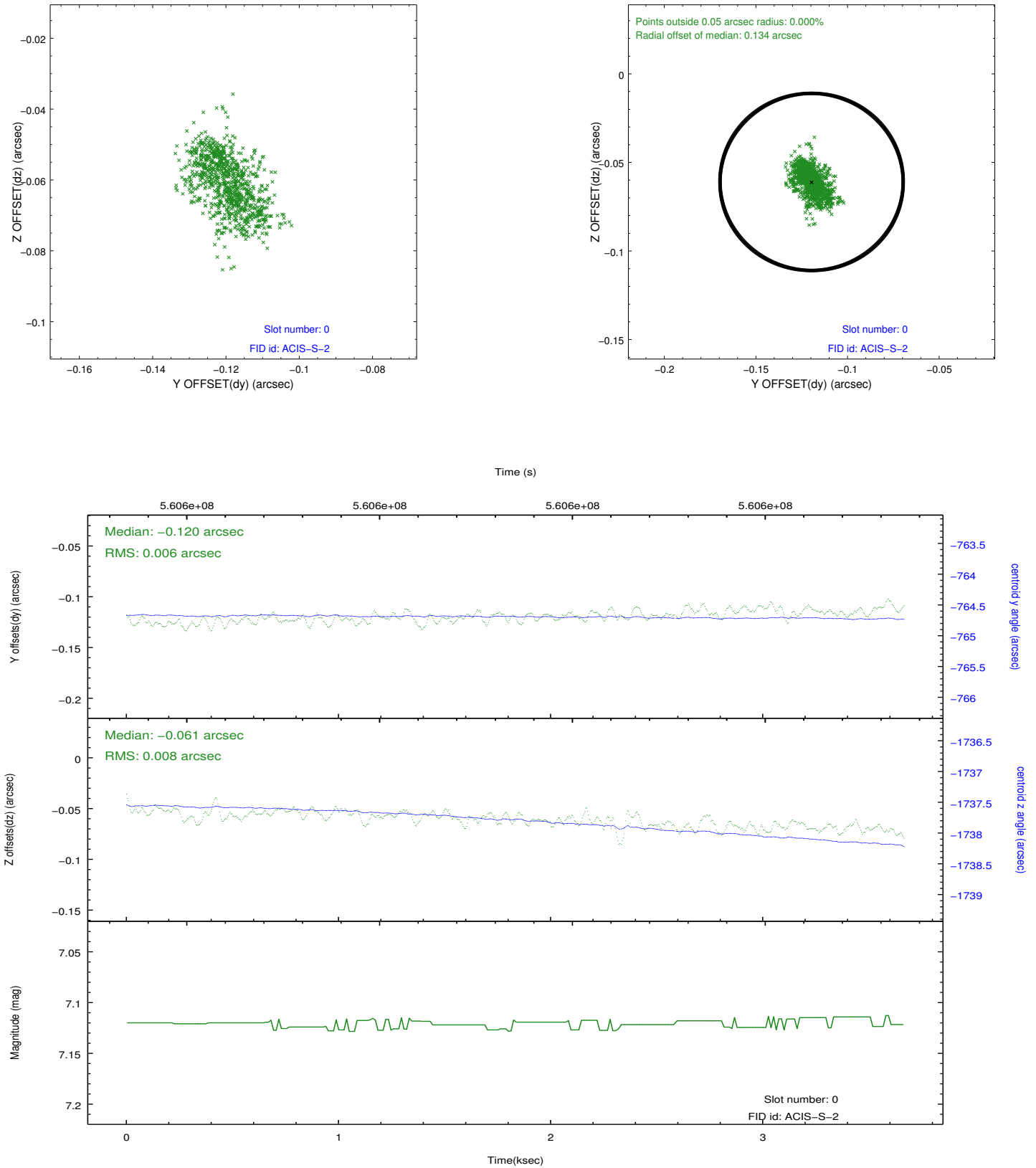


2.4.5 Slot 7

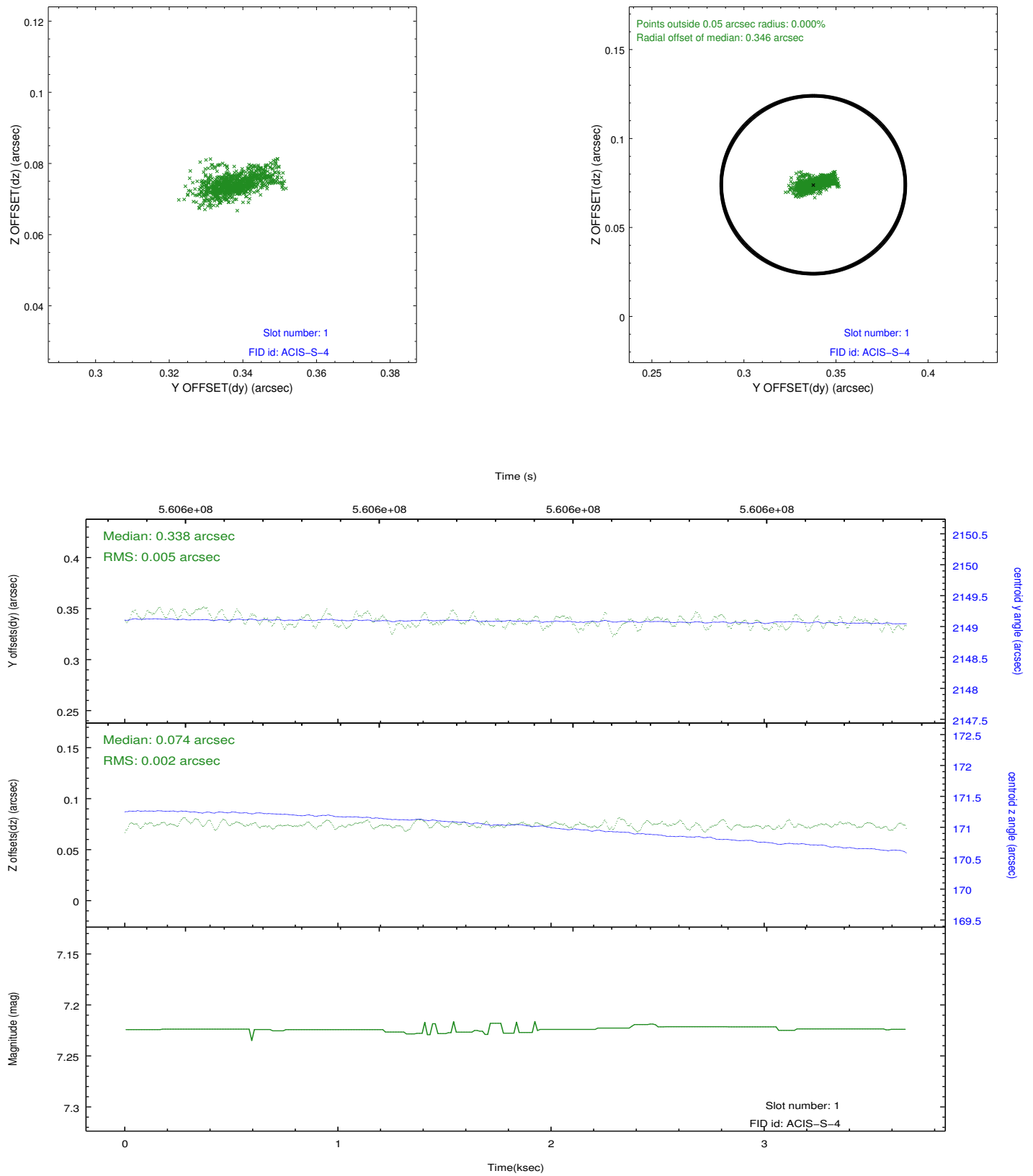


2.5 FID Slots

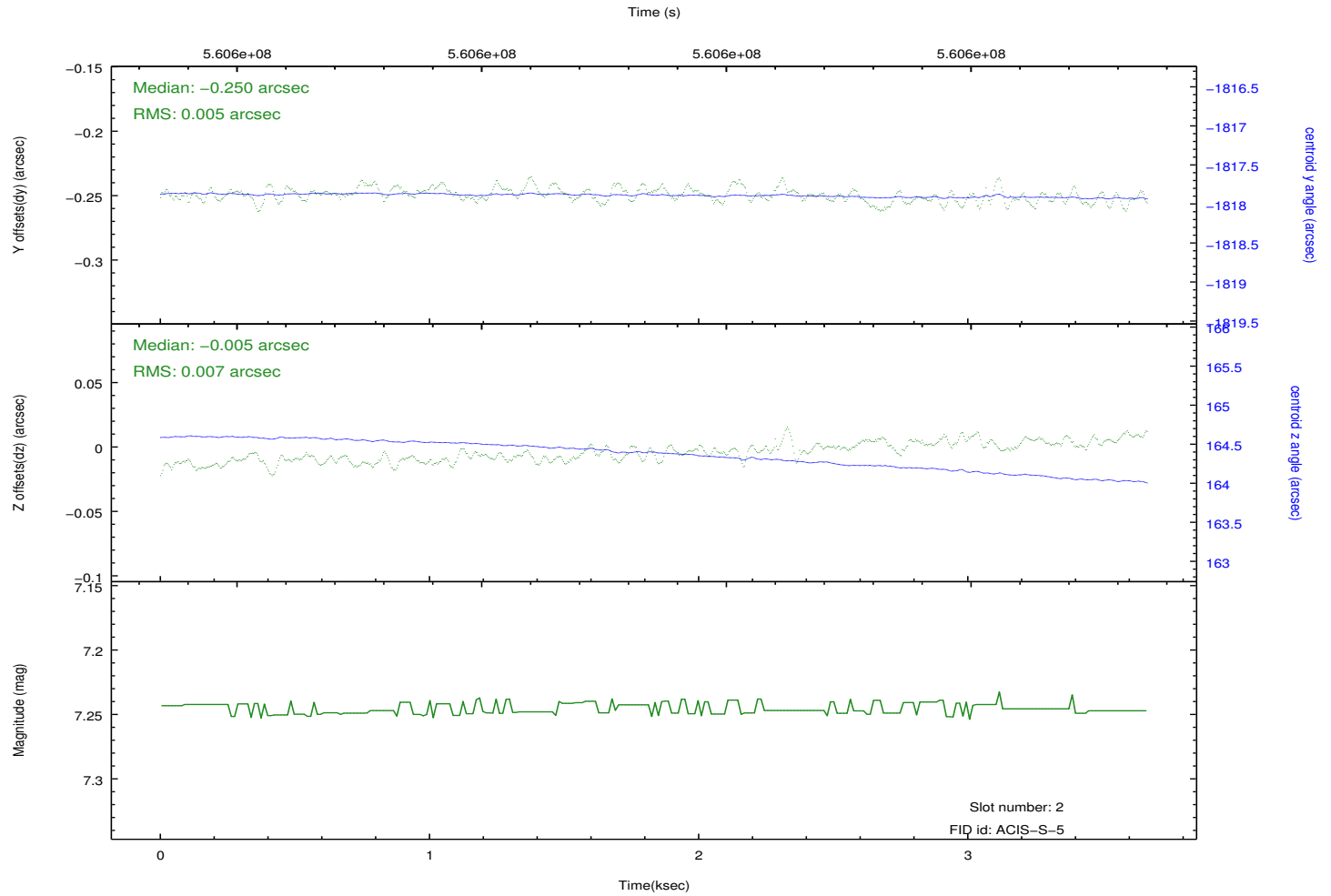
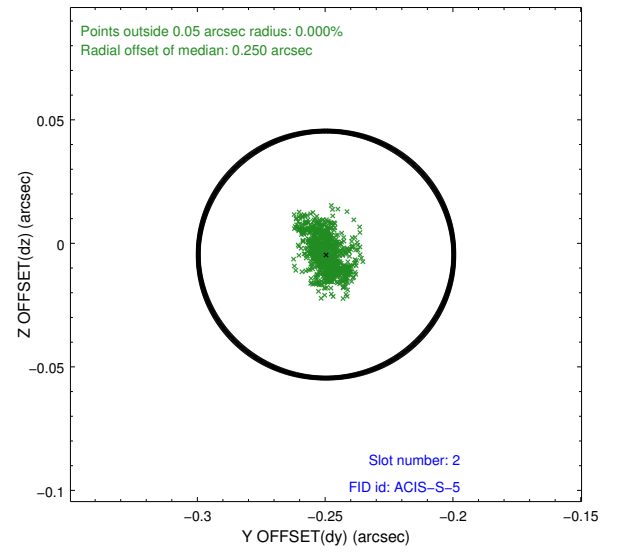
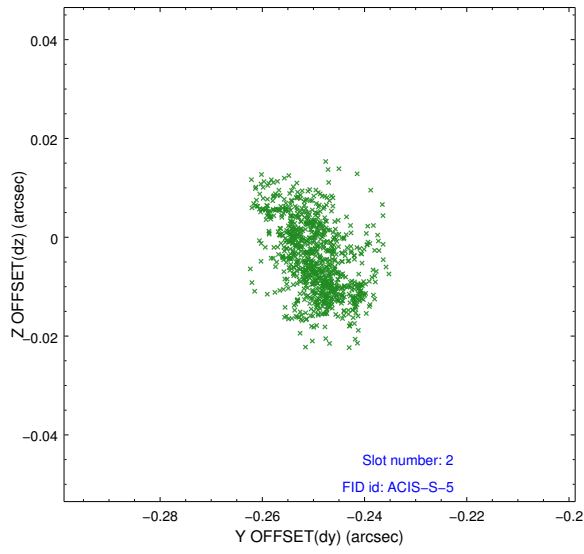
2.5.1 Slot 0



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)	2015.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5759415955544

A.2 Comments