

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 19527 - L2 Version 1
Chandra X-Ray Center

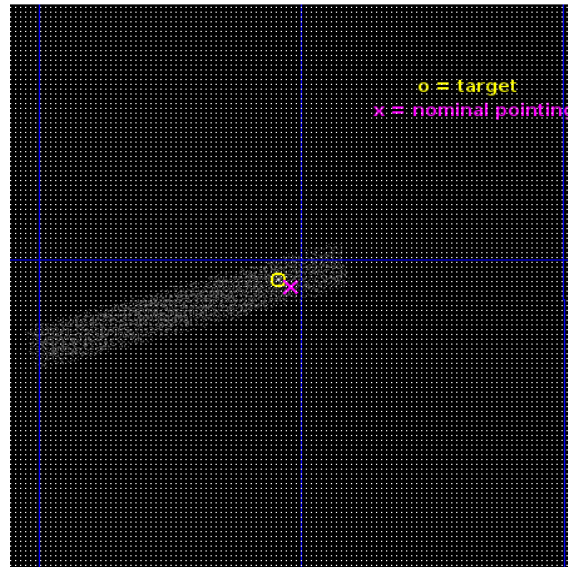
L2 Processing Date : May 20 2017

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

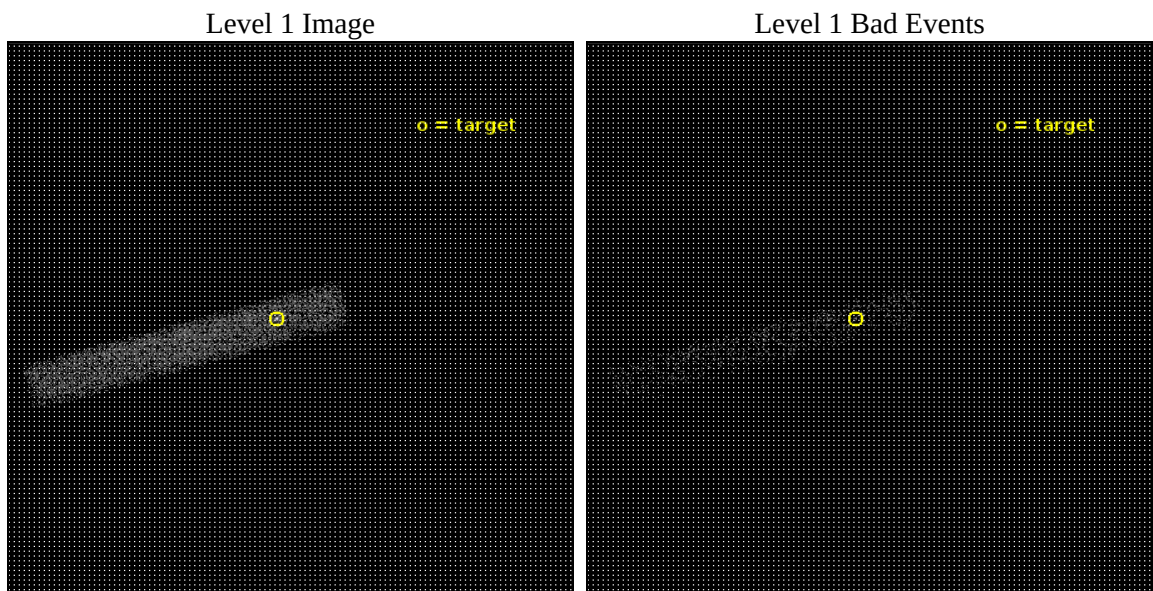
seq_num	703375	Sequence number
obs_id	19527	Observation id
title	Surveying the X-Ray Properties of Candidate Subparsec Scale SMBH Binaries	Proposal title
observer	Daniel Stern	Principal investigator
object	FBQS J163302.6+234928	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	248.260833	Observer's specified target RA [deg]
dec_targ	23.824444	Observer's specified target Dec [deg]
ra_nom	248.25466478054	Nominal RA [deg]
dec_nom	23.821216201352	Nominal Dec [deg]
roll_nom	164.46433410043	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8169.4545025826	Sum of GTIs [s]
livetime	7409.2640146767	Livetime [s]
ontime7	8169.4545025826	Sum of GTIs [s]
l2events	6310	Number of level 2 events



2 OBI

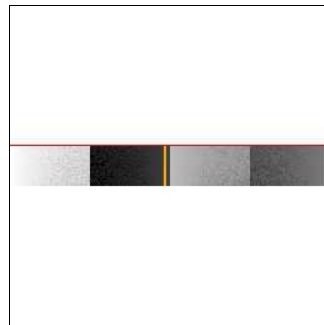
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8100.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	8169.4545025826	Sum of GTIs [s]
caldbver	4.7.4	 	ontime7	8169.4545025826	Sum of GTIs [s]
date	2017-05-20T04:58:15	Date and time of file creation	l1events	11857	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

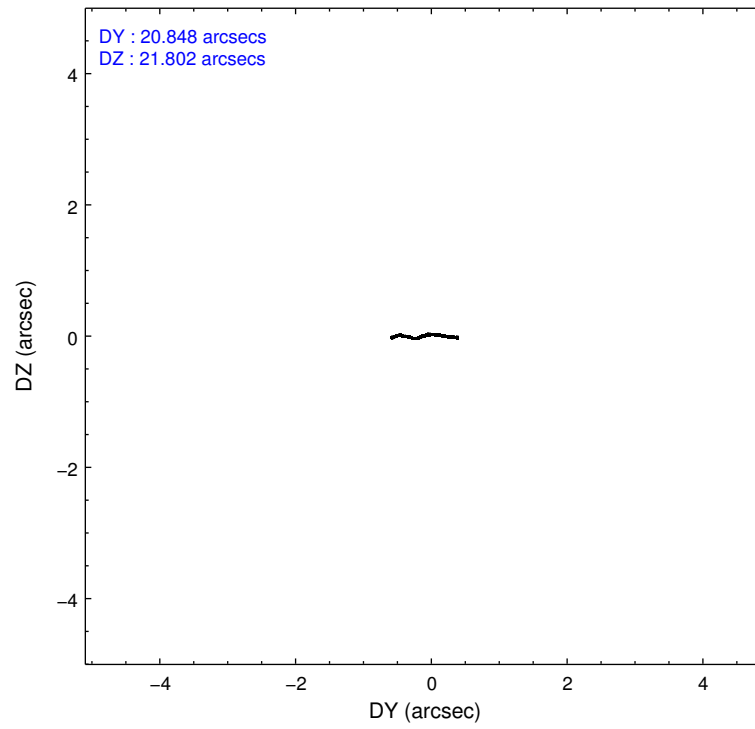
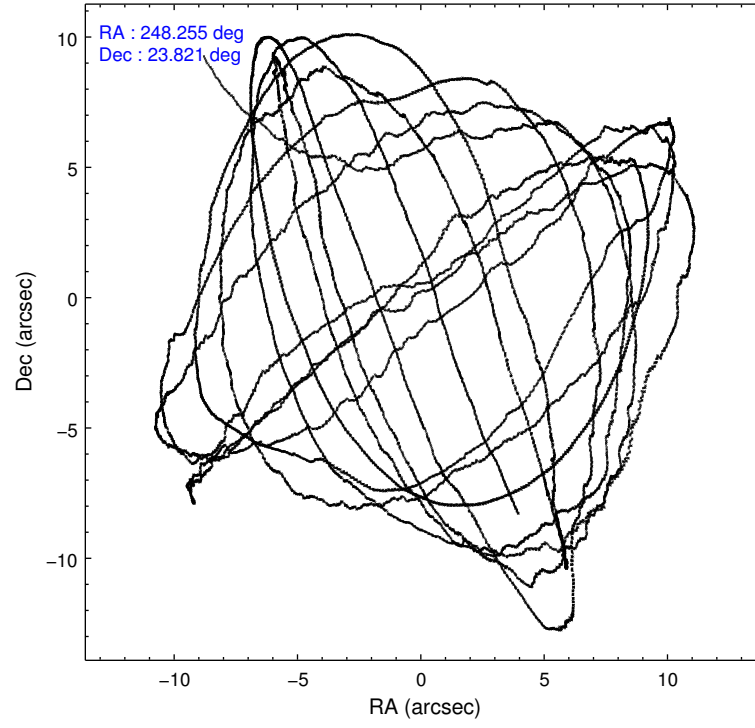
	ccd 7
level 1 events	11857
rejected events	5315
rejected %	44%

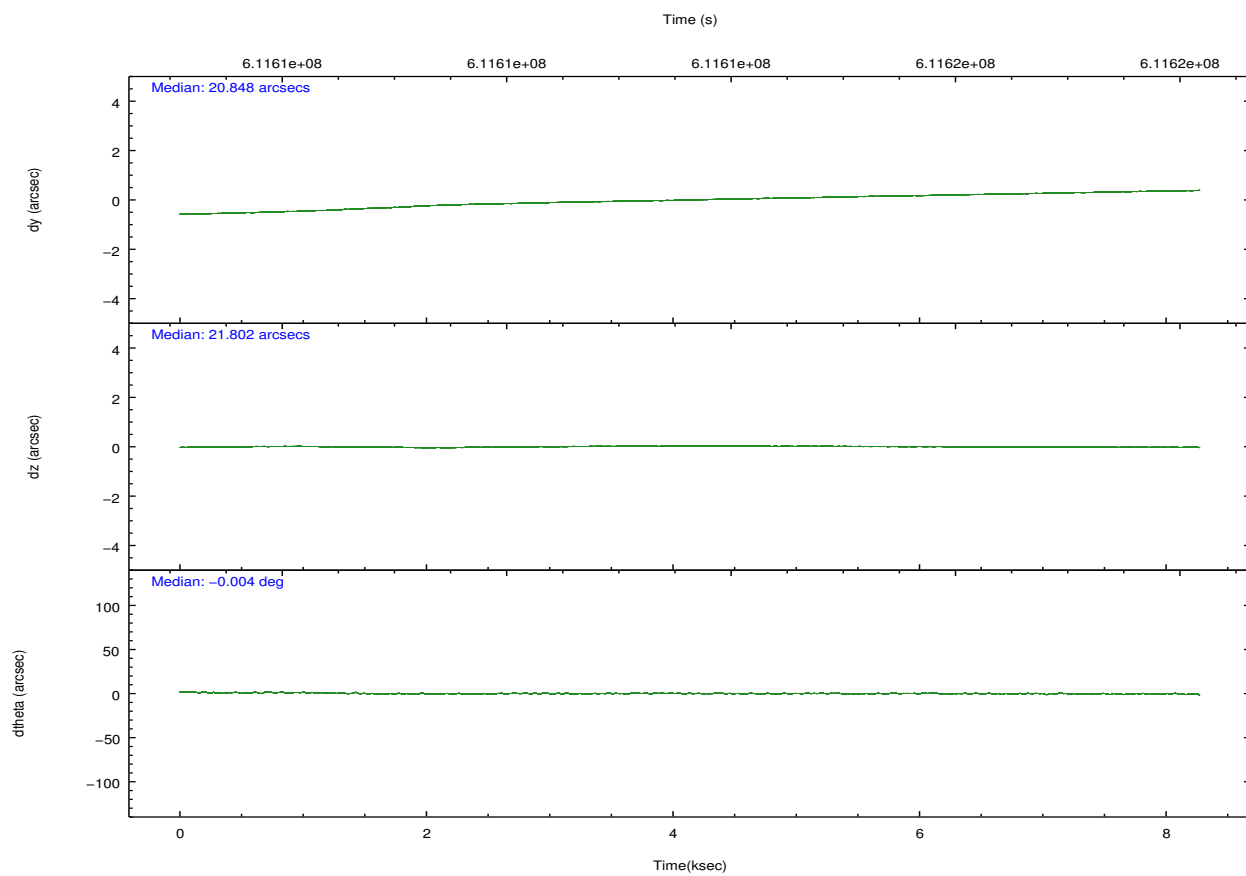
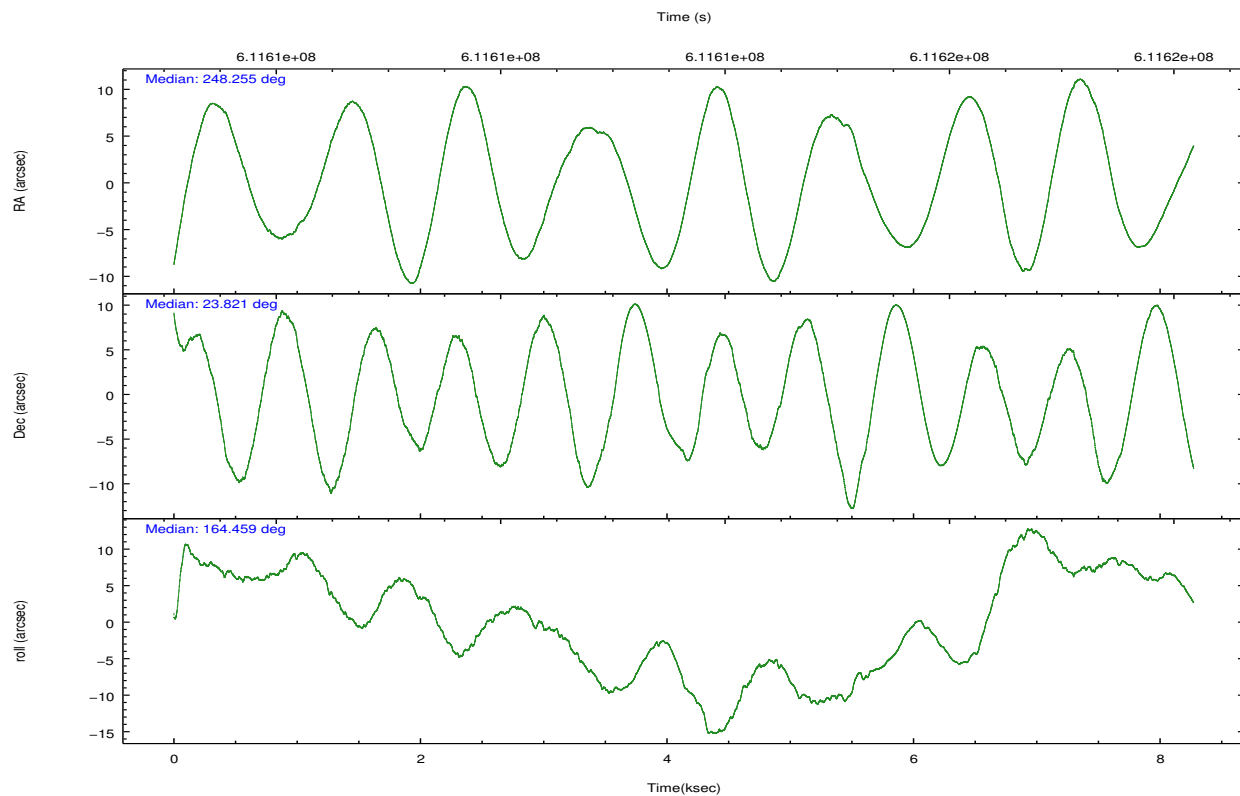
	ccd 7
grade 0 events	886
	7%
grade 1 events	16
	0%
grade 2 events	1399
	11%
grade 3 events	864
	7%
grade 4 events	826
	6%
grade 5 events	1103
	9%
grade 6 events	2569
	21%
grade 7 events	4194
	35%

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	248.283606	248.2546647805392	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	23.828382	23.82121620135158	Subarray start row	449	449
[deg] Pointing Roll	164.296028	164.4643341004337	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)	611609673.184000	611608769.04653			
Observation start date	2017-05-19T19:33:24	2017-05-19T19:19:29			
[s] Observation end time (MET)	611617773.184000	611618797.13462			
Observation end date	2017-05-19T21:48:24	2017-05-19T22:06:37			
Read mode	TIMED	TIMED			

2.3 Aspect



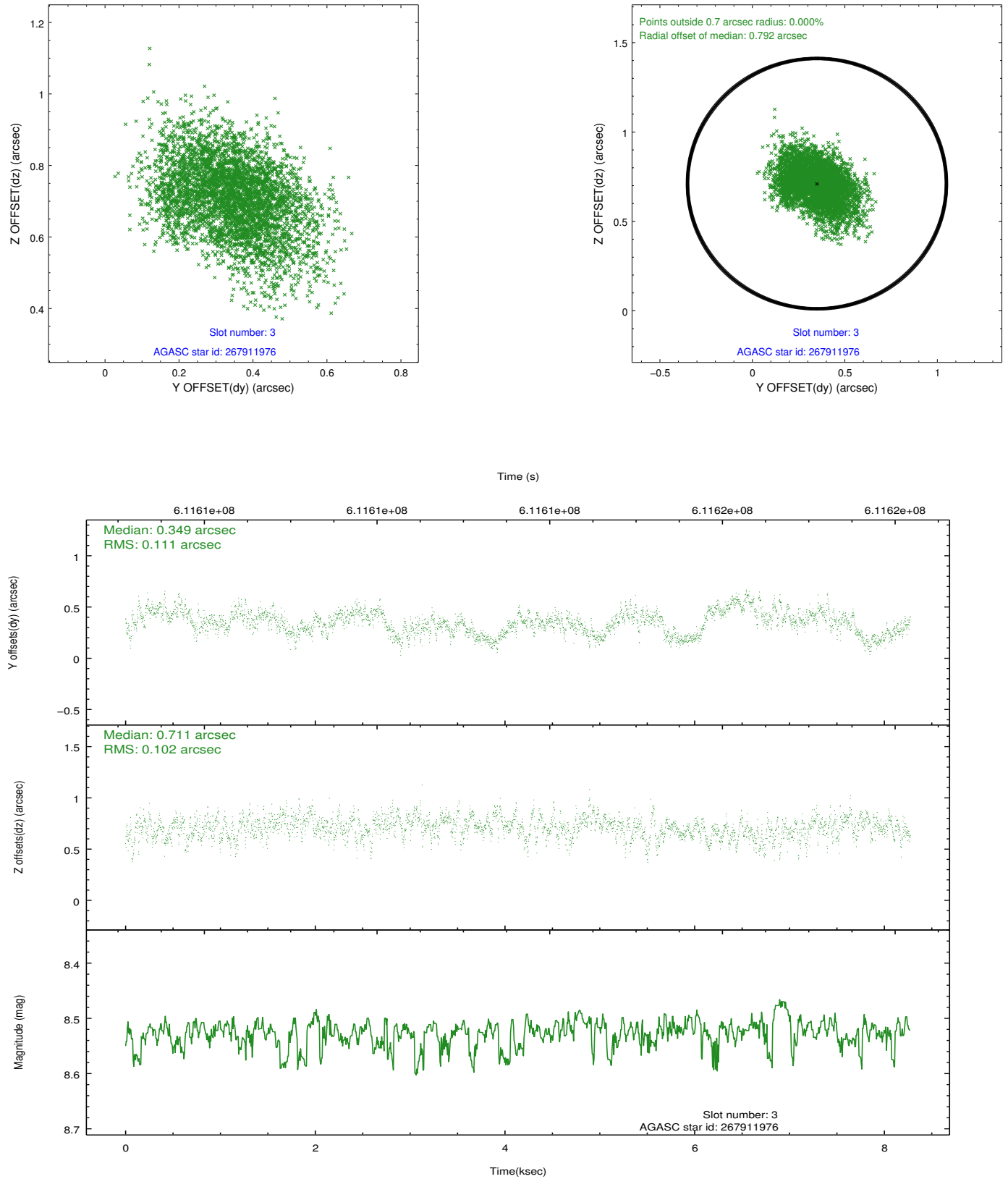


Slot Statistics

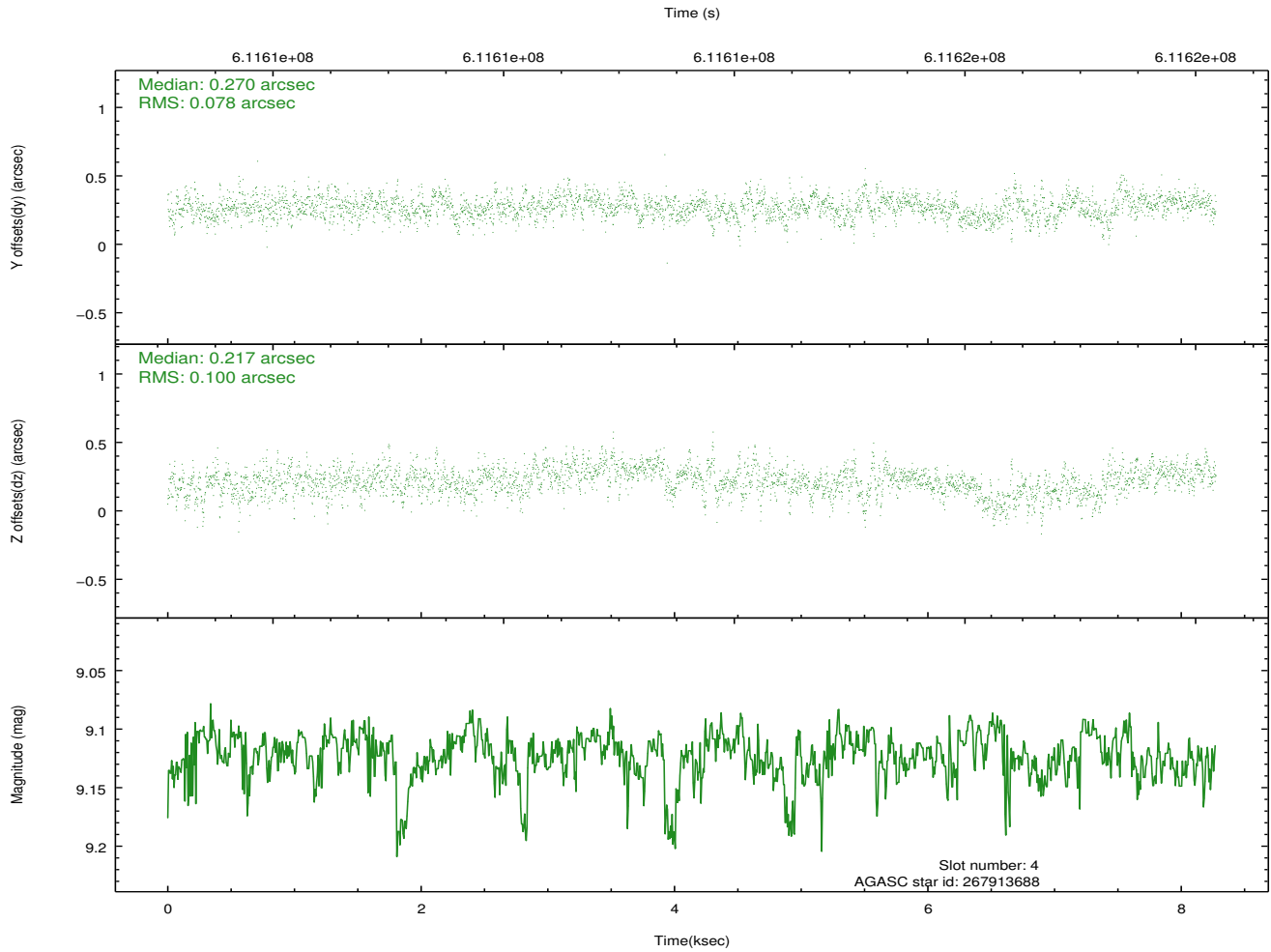
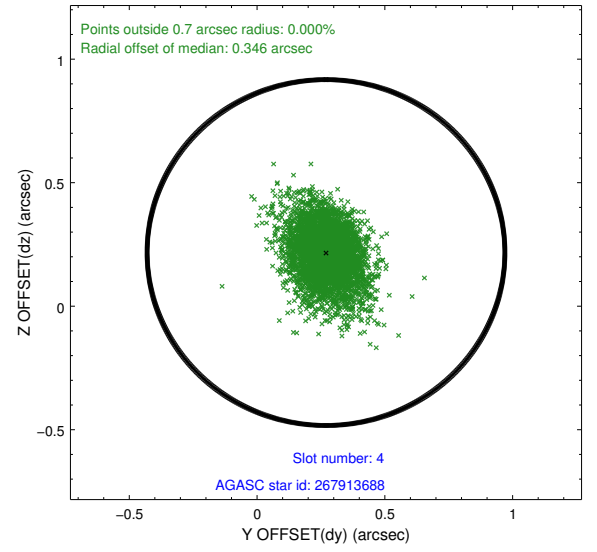
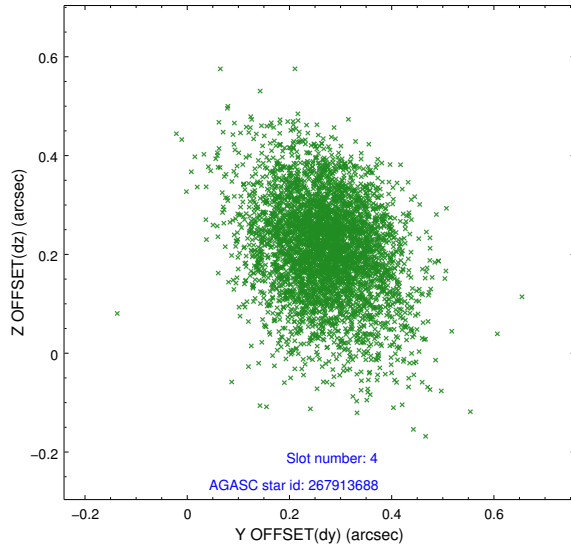
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.03	2018	-0.237	-0.139	0.009	0.015	0.000000	0.000000	-774.17	-1743.45
1	FID		ACIS-S-4	7.14	2018	0.521	0.152	0.007	0.014	0.000000	0.000000	2139.55	164.63
2	FID		ACIS-S-5	7.14	2019	-0.314	-0.003	0.009	0.013	0.000000	0.000000	-1826.24	158.90
3	GUIDE	used	267911976	8.53	4036	0.349	0.711	0.161	0.260	248.912874	24.327284	-1498.53	-2291.47
4	GUIDE	used	267913688	9.12	4033	0.270	0.217	0.131	0.228	248.772740	23.522945	-1850.69	618.74
5	GUIDE	used	267916712	8.70	4031	0.020	0.066	0.127	0.232	247.745965	23.985695	1856.98	-69.35
6	GUIDE	used	267912544	8.78	4032	-0.084	-0.377	0.146	0.266	247.549678	23.859768	2359.12	540.07
7	GUIDE	used	267921576	7.41	4035	-0.542	-0.609	0.144	0.246	248.194898	23.160444	-368.21	2394.13

2.4 Star Slots

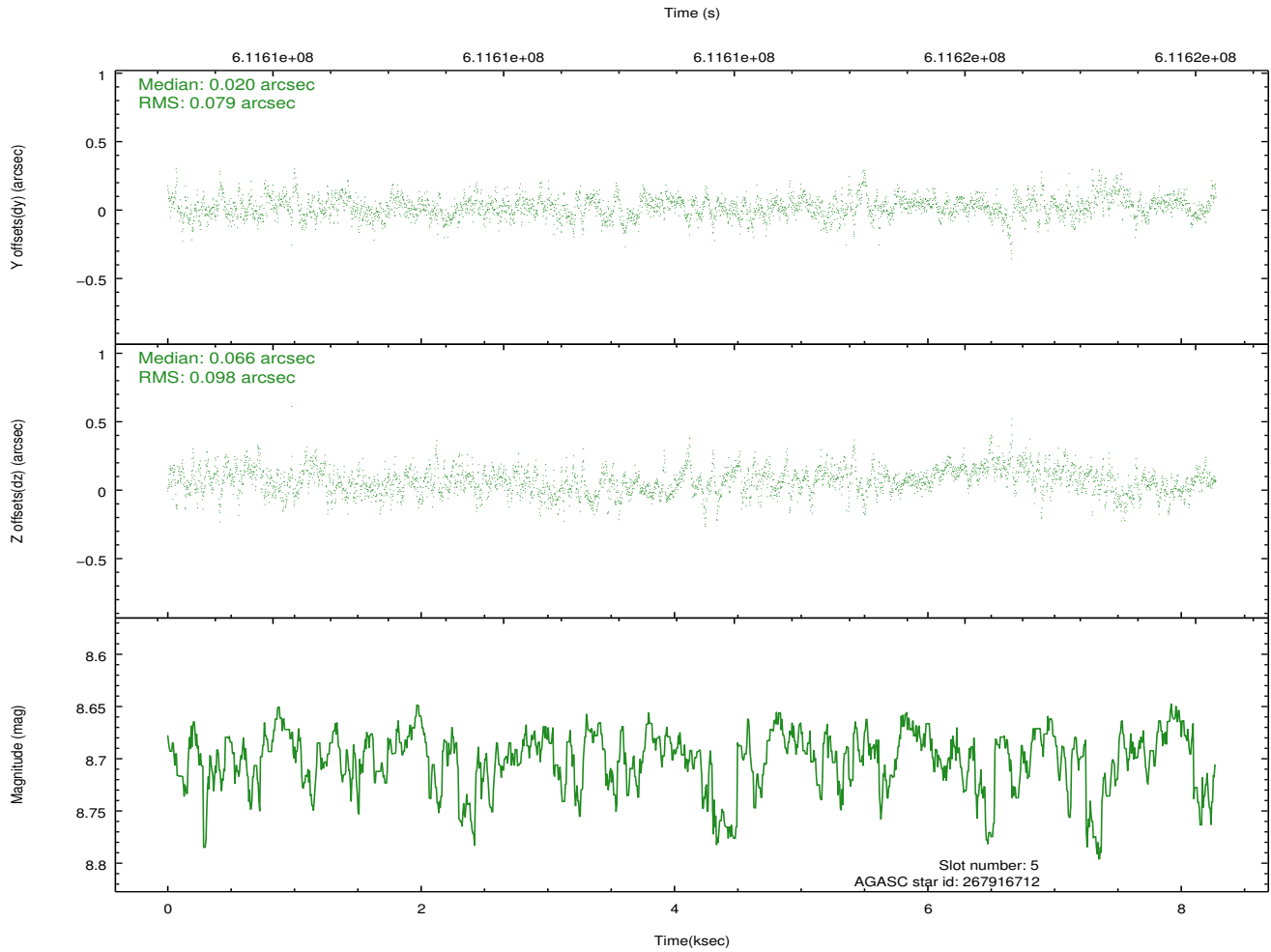
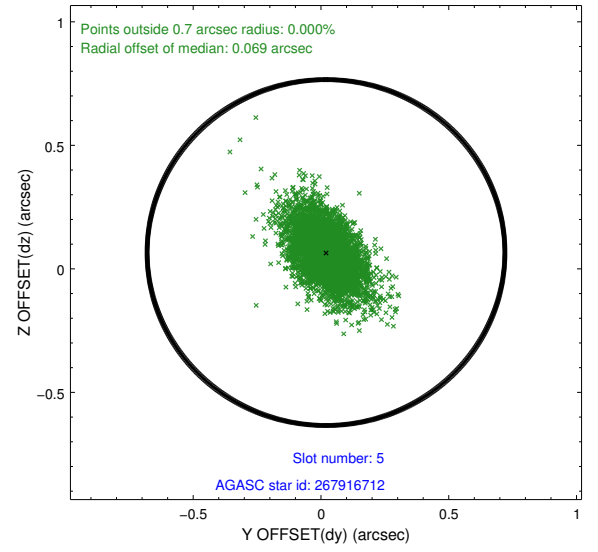
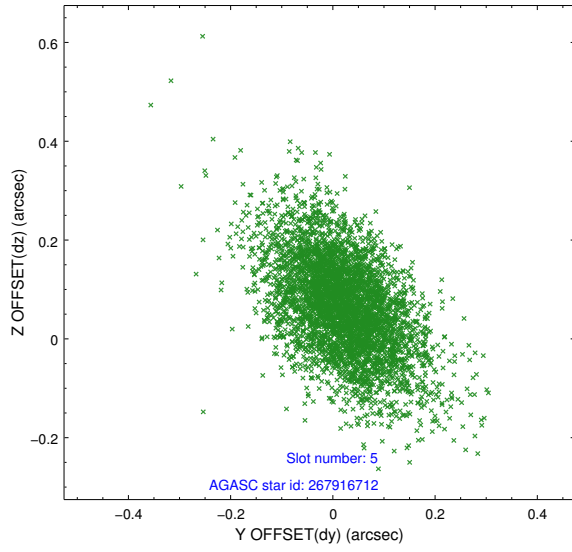
2.4.1 Slot 3



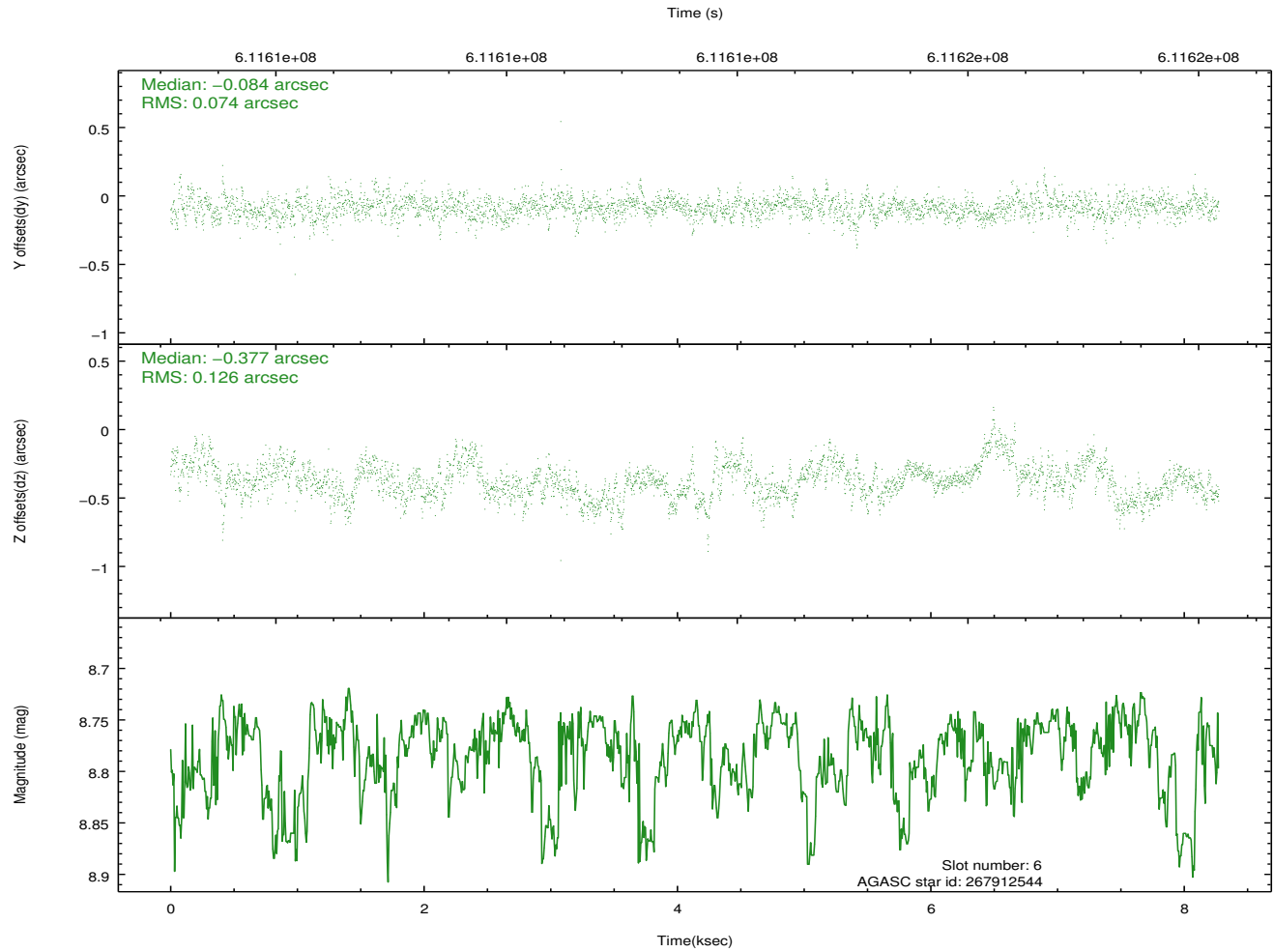
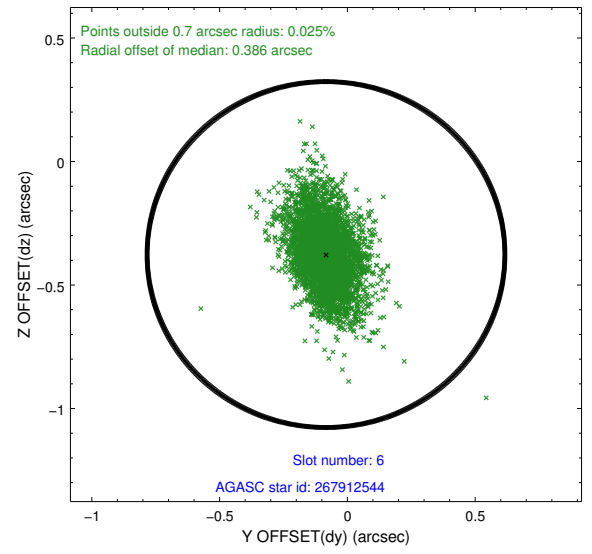
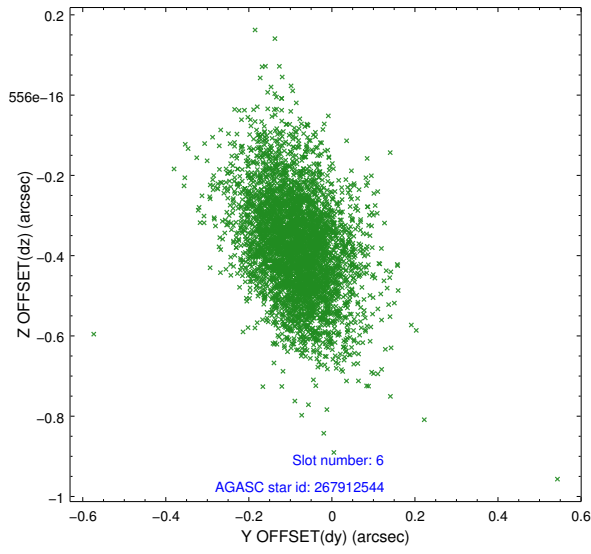
2.4.2 Slot 4



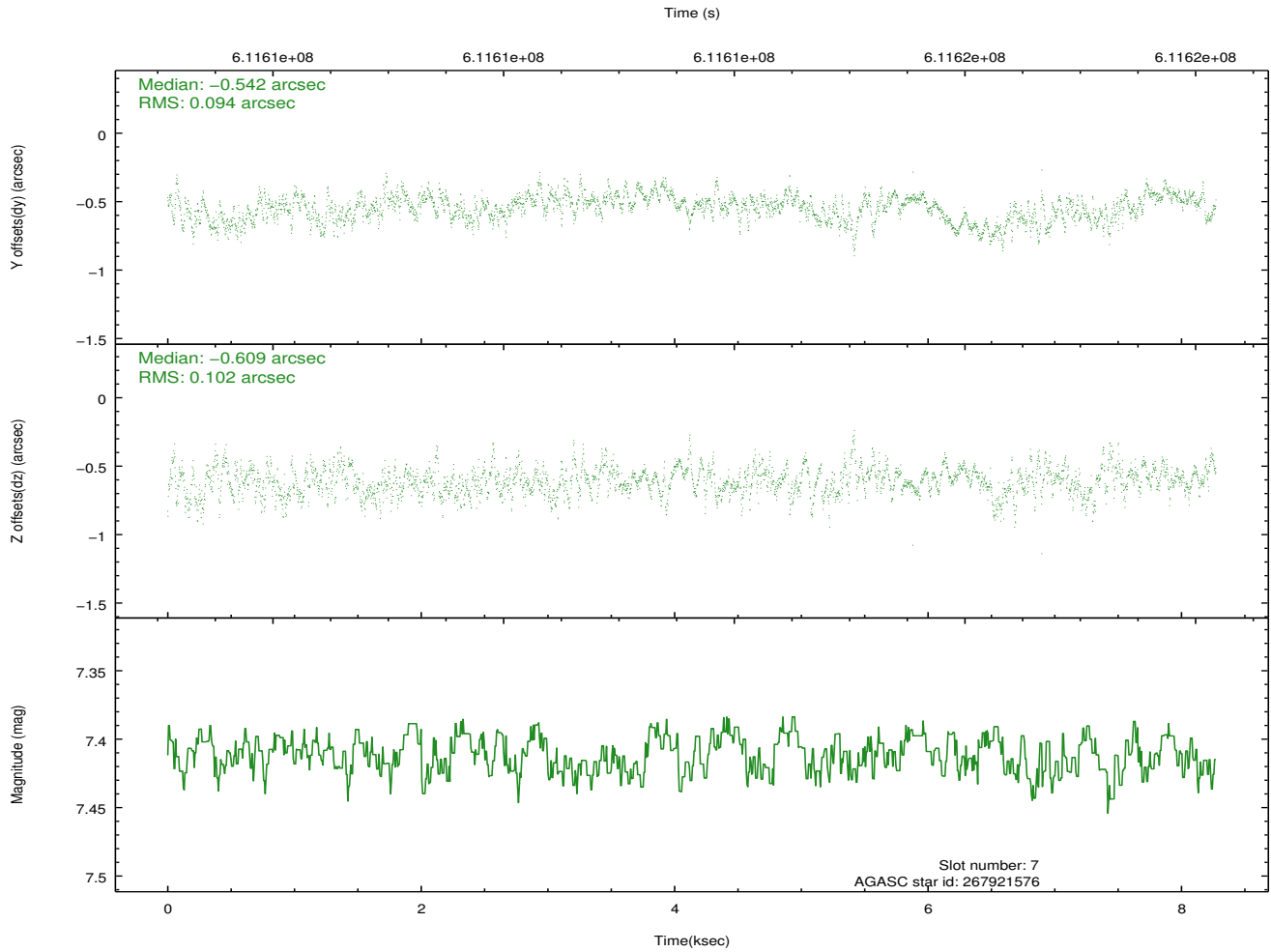
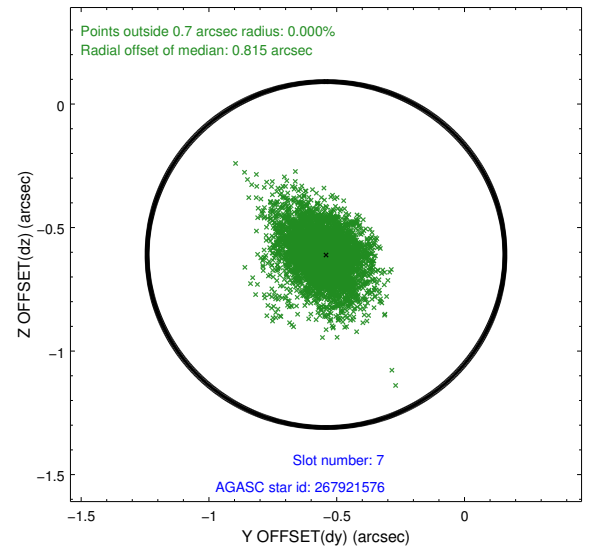
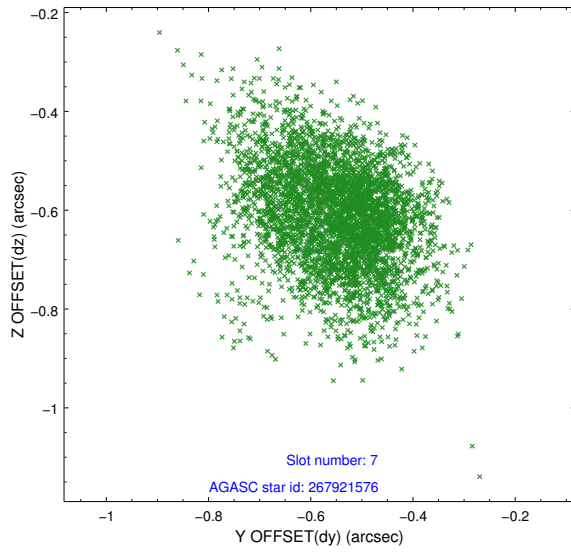
2.4.3 Slot 5



2.4.4 Slot 6

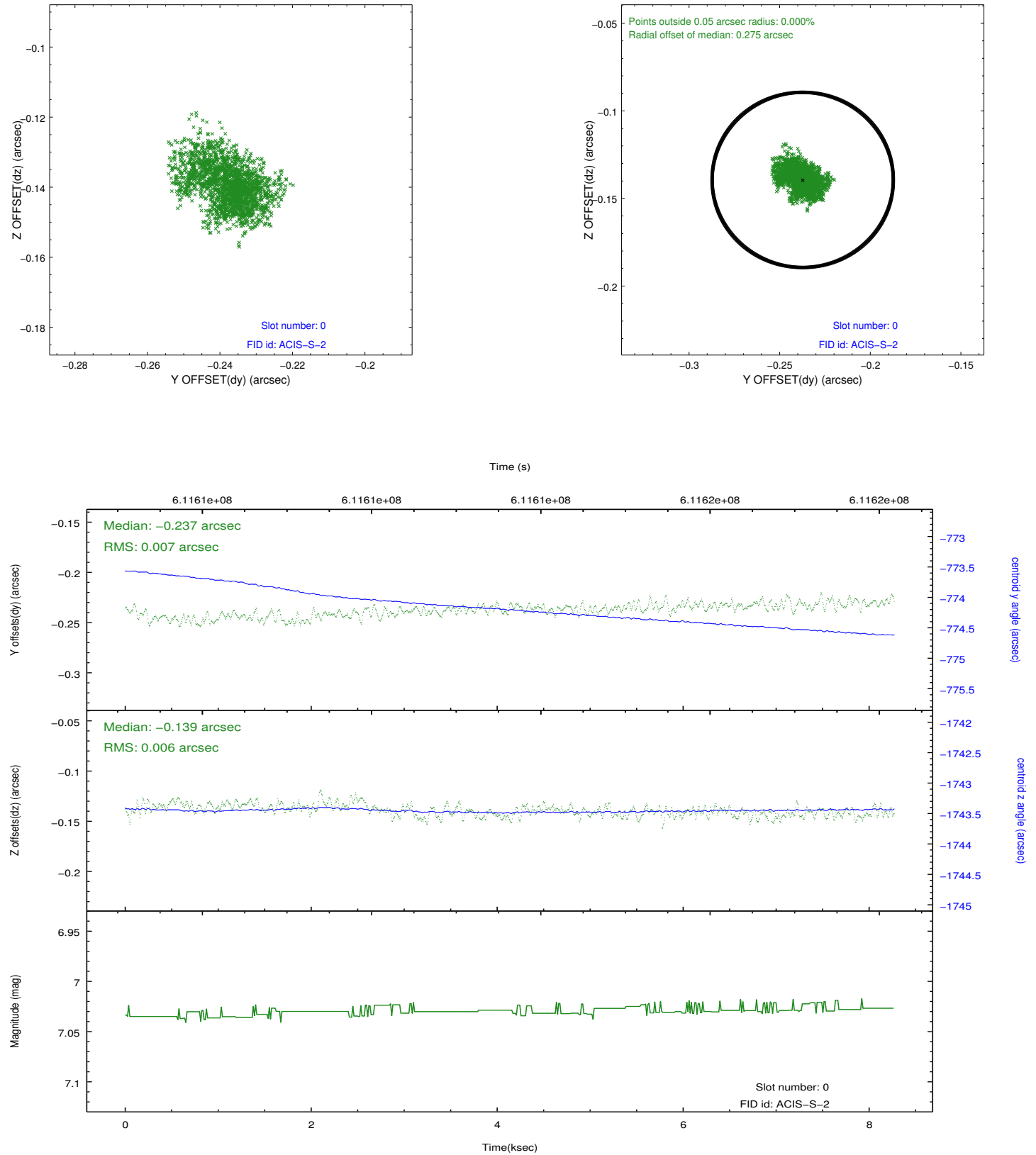


2.4.5 Slot 7

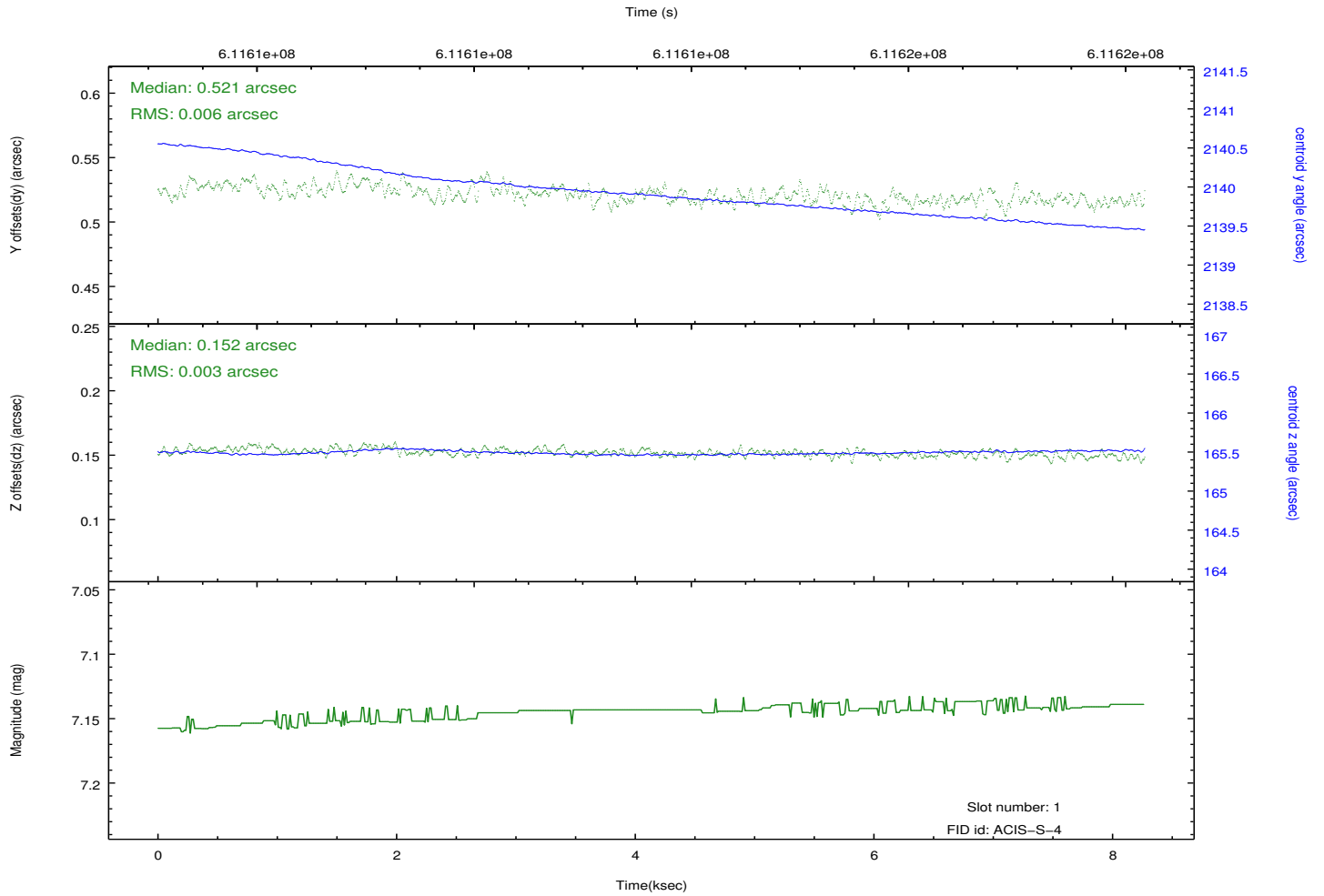
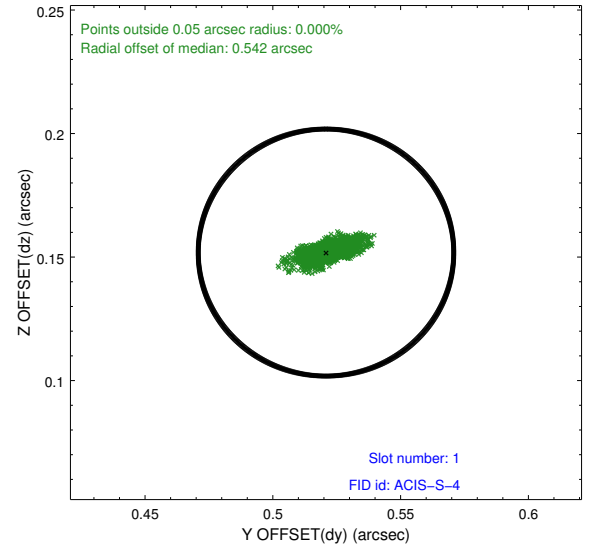
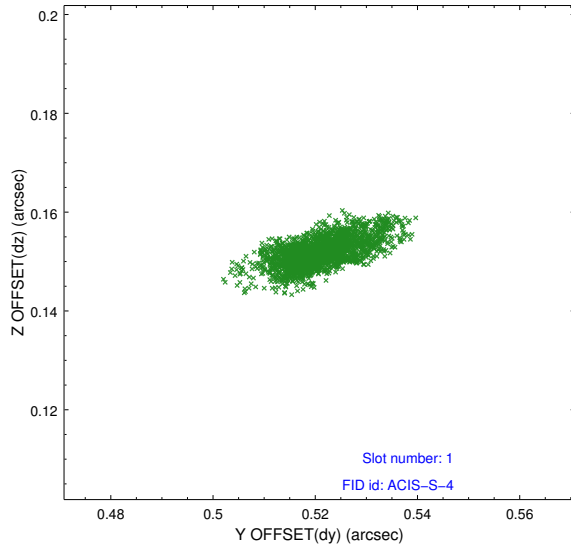


2.5 FID Slots

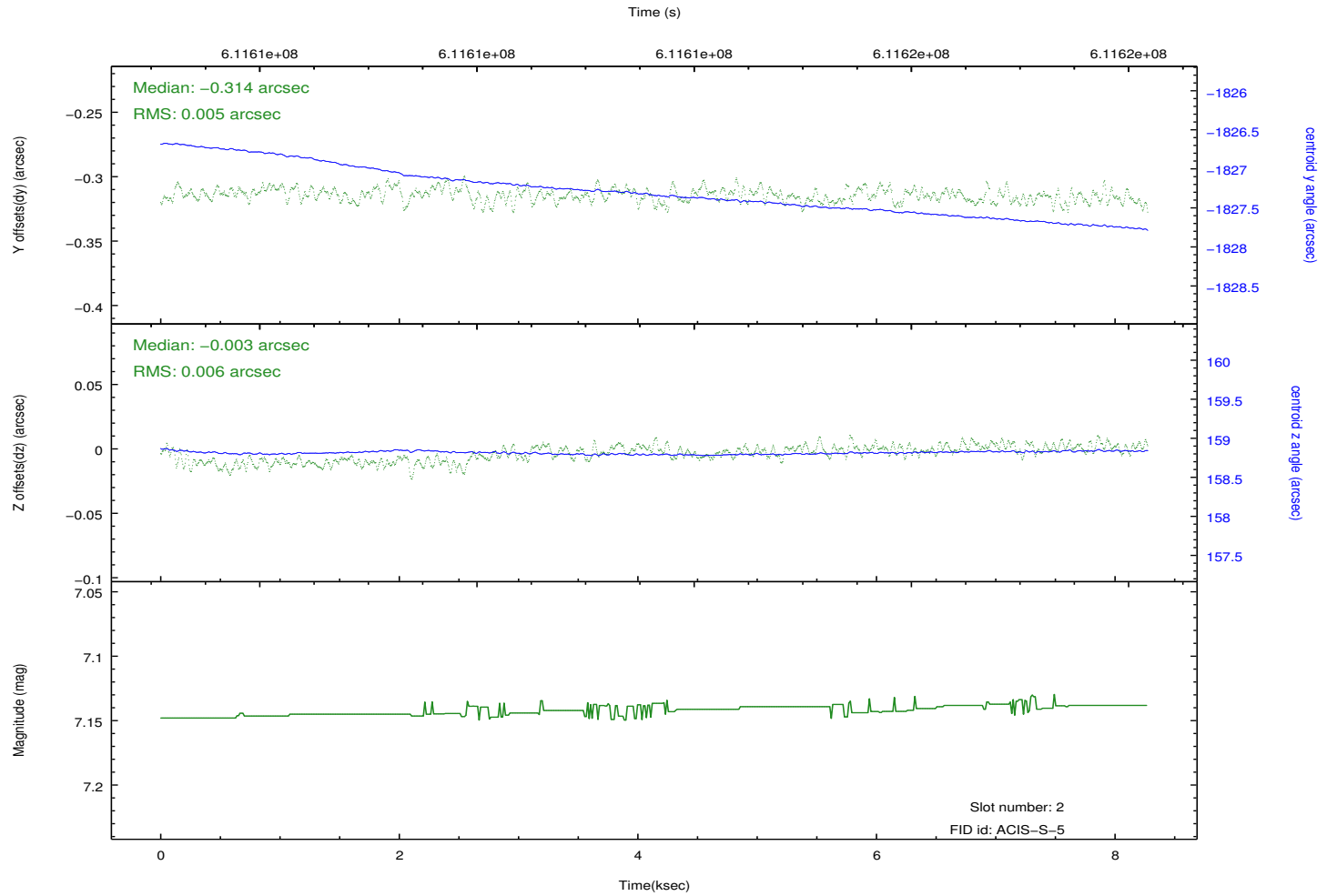
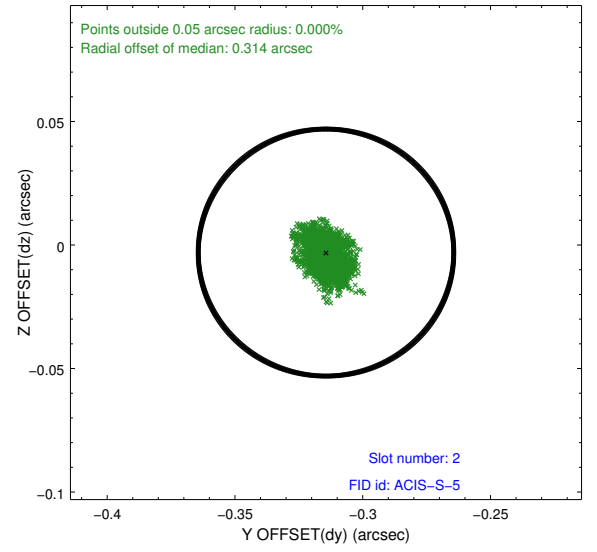
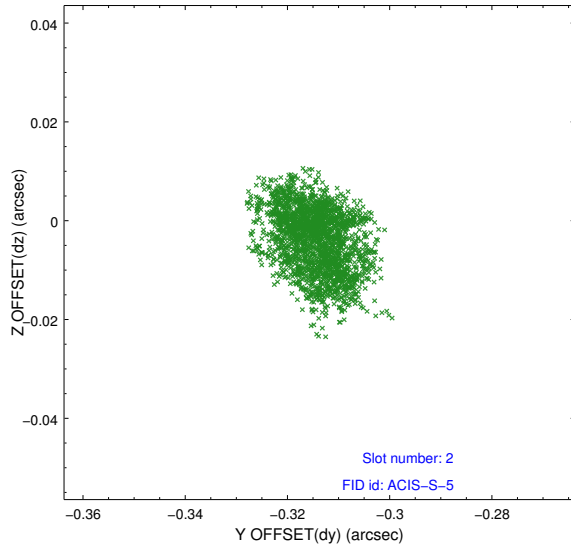
2.5.1 Slot 0



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)	2017.05.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1694545025826

A.2 Comments