

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 21516 - L2 Version 1
Chandra X-Ray Center

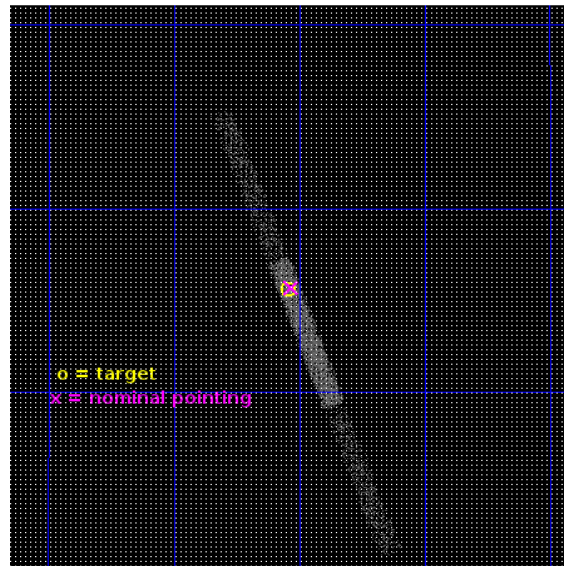
L2 Processing Date : Nov 18 2018

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1 Front

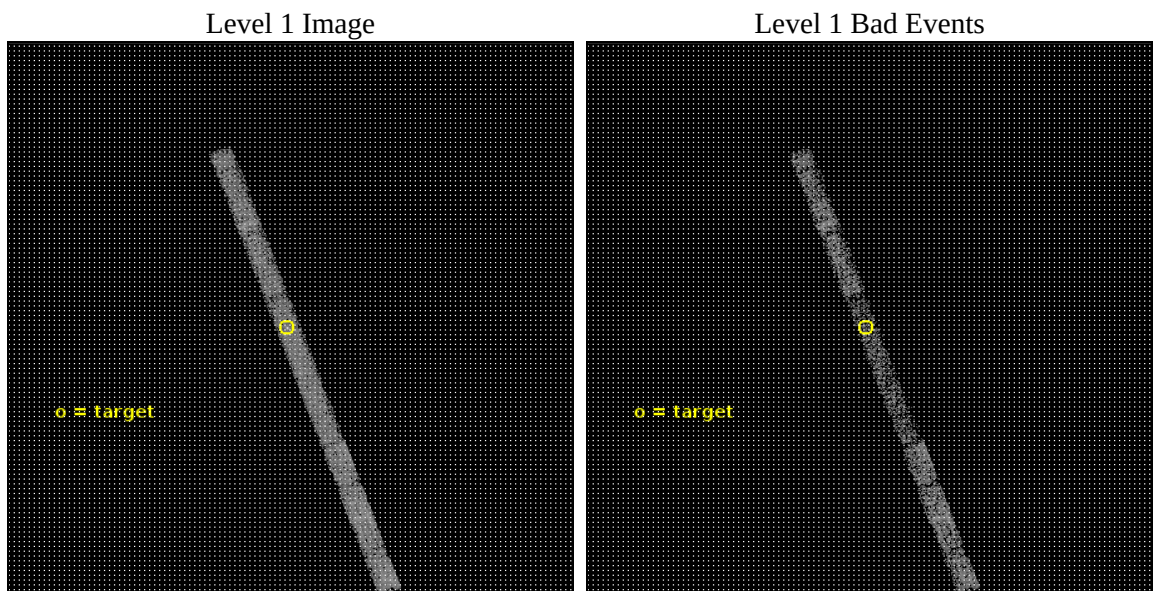
seq_num	703809	Sequence number
obs_id	21516	Observation id
title	X-ray Properties of Extreme Super Eddington Accreting Massive Black Holes	Proposal title
observer	Michael Brotherton	Principal investigator
object	SDSS J100402.61+285535.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	151.010833	Observer's specified target RA [deg]
dec_targ	28.926472	Observer's specified target Dec [deg]
ra_nom	151.00795009767	Nominal RA [deg]
dec_nom	28.928328218946	Nominal Dec [deg]
roll_nom	69.718778416776	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6742.6945123672	Sum of GTIs [s]
livetime	6311.0206967122	Livetime [s]
ontime6	6742.6534724236	Sum of GTIs [s]
ontime7	6742.6945123672	Sum of GTIs [s]
ontime8	6742.6124323606	Sum of GTIs [s]
l2events	6448	Number of level 2 events



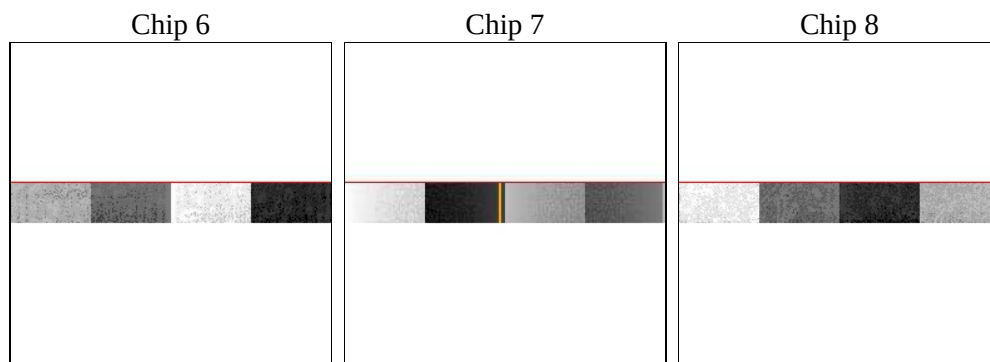
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	6640.148000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	6742.6945123672	Sum of GTIs [s]
caldbver	4.8.0.1	 	ontime6	6742.6534724236	Sum of GTIs [s]
date	2018-11-18T13:26:25	Date and time of file creation	ontime7	6742.6945123672	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	6742.6124323606	Sum of GTIs [s]
			l1events	30434	Number of level 1 events

2.1.4 Events

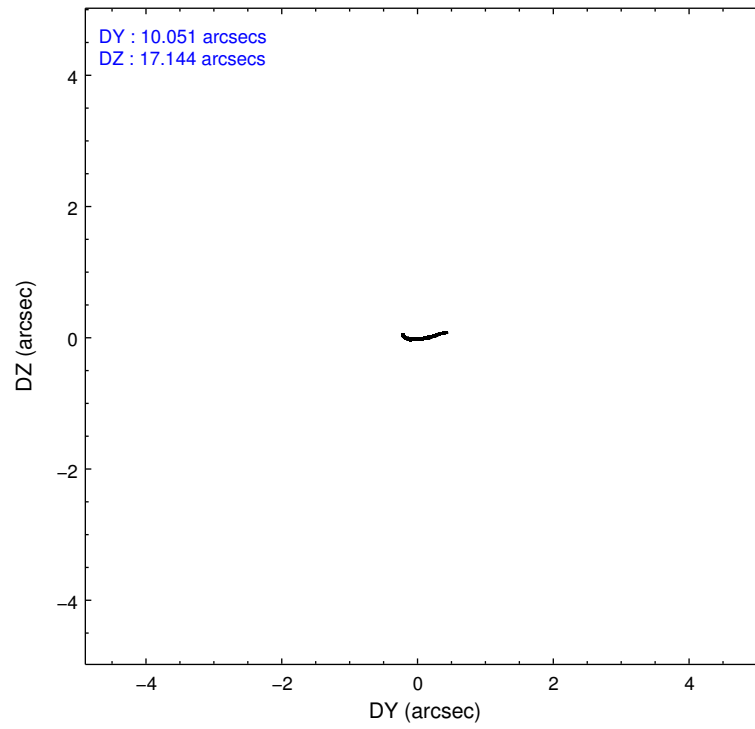
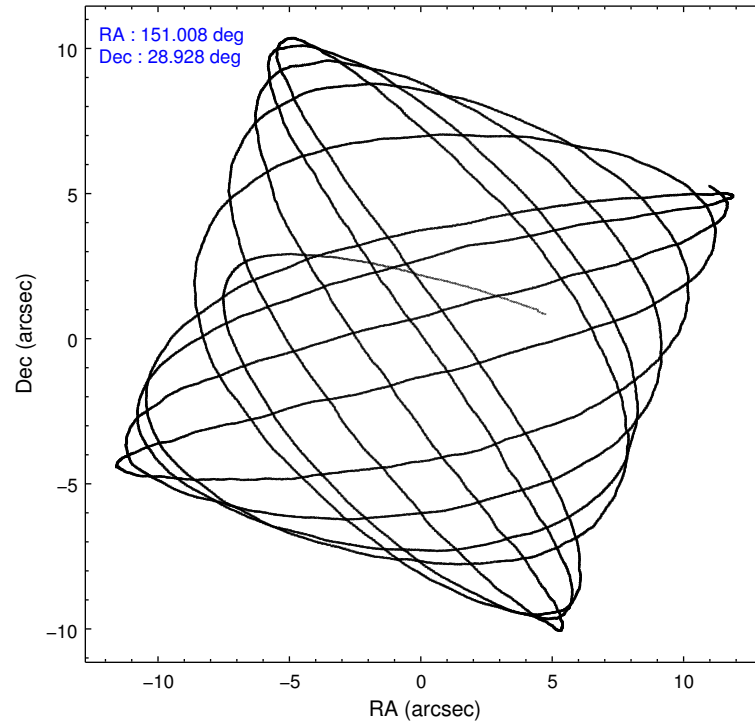
	ccd 6	ccd 7	ccd 8
level 1 events	8489	9626	12319
rejected events	7564	4548	9683
rejected %	89%	47%	78%

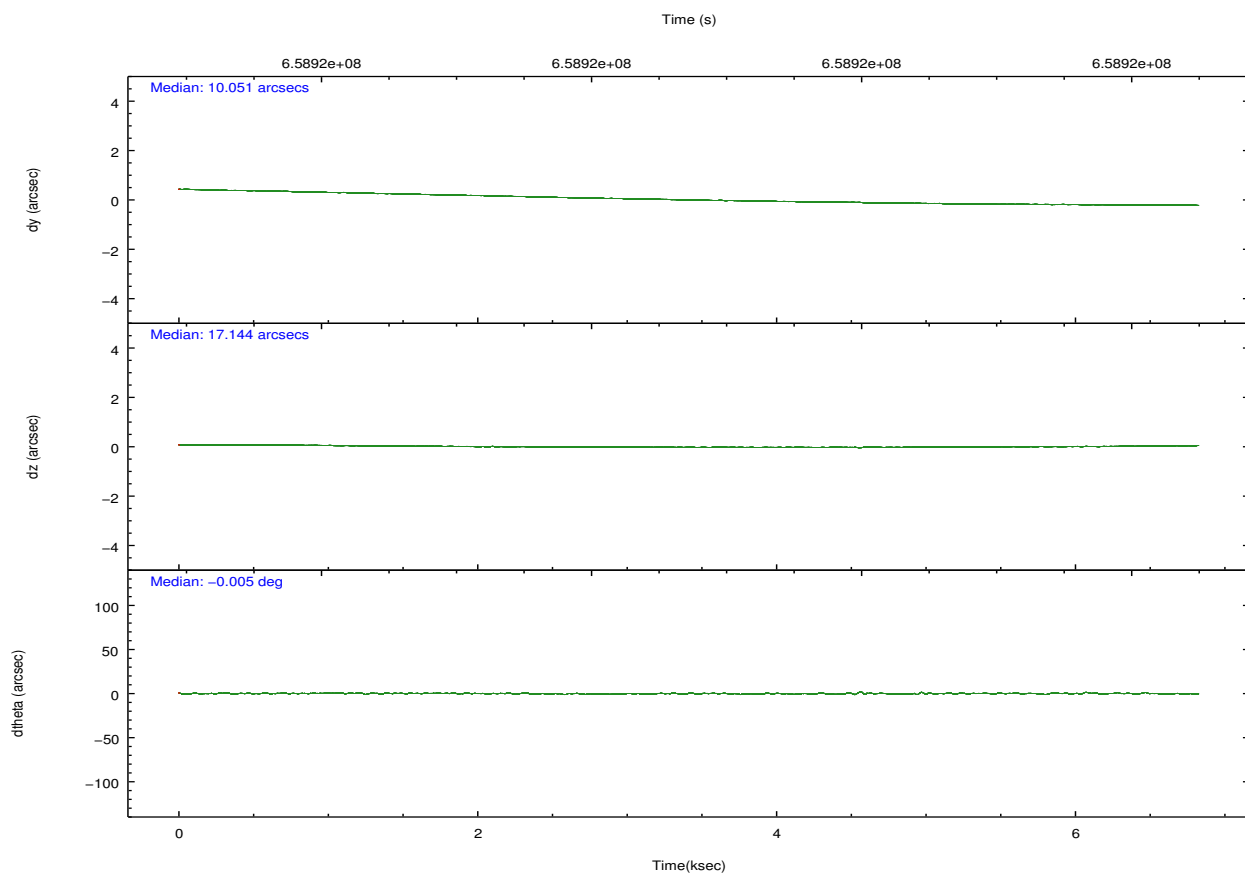
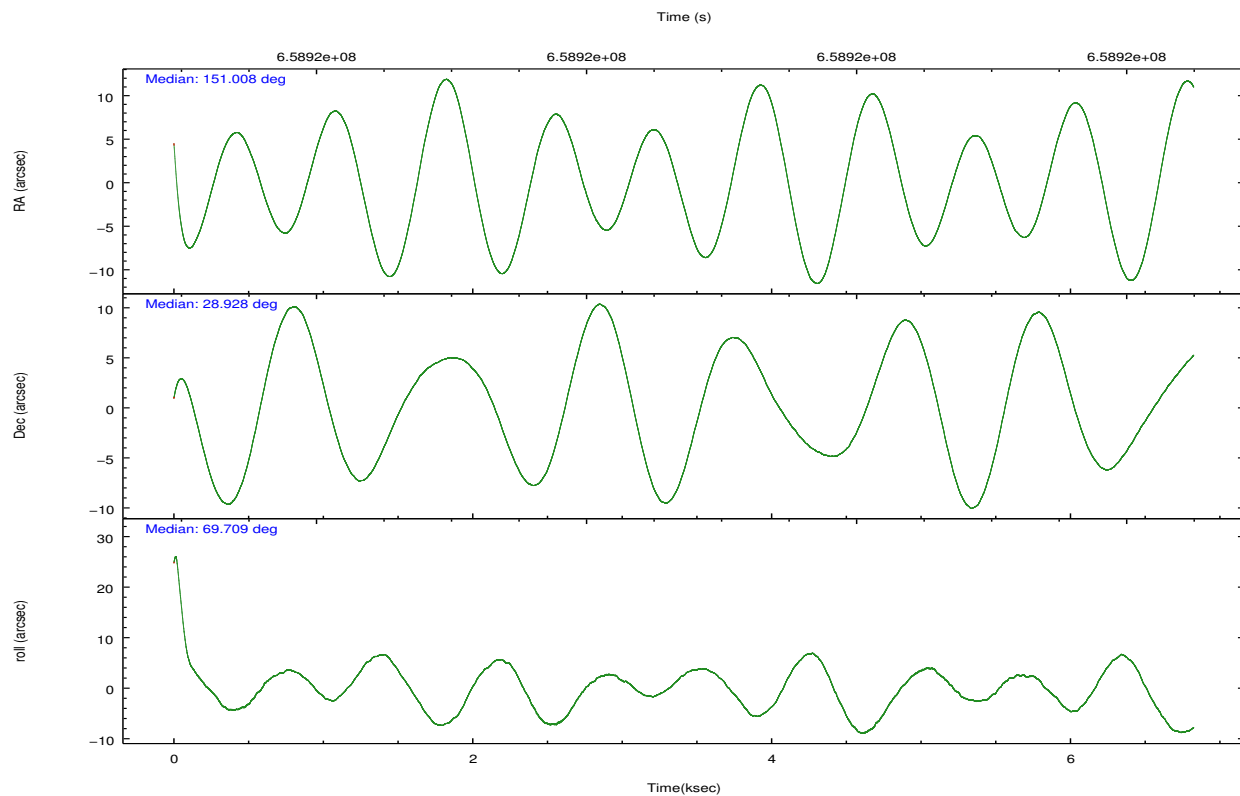
	ccd 6	ccd 7	ccd 8
grade 0 events	243	738	665
	2%	7%	5%
grade 1 events	1	16	5
	0%	0%	0%
grade 2 events	159	1063	544
	1%	11%	4%
grade 3 events	183	617	330
	2%	6%	2%
grade 4 events	156	534	330
	1%	5%	2%
grade 5 events	318	831	468
	3%	8%	3%
grade 6 events	184	2127	768
	2%	22%	6%
grade 7 events	7245	3700	9209
	85%	38%	74%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	151.013655	151.007950097669	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	28.901388	28.92832821894591	Subarray start row	449	449
[deg] Pointing Roll	69.559337	69.71877841677558	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	0.6
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	658915490.184000	658914420.21223			
Observation start date	2018-11-18T08:03:41	2018-11-18T07:47:00			
[s] Observation end time (MET)	658922130.184000	658922894.91273			
Observation end date	2018-11-18T09:54:21	2018-11-18T10:08:14			
Read mode	TIMED	TIMED			

2.3 Aspect



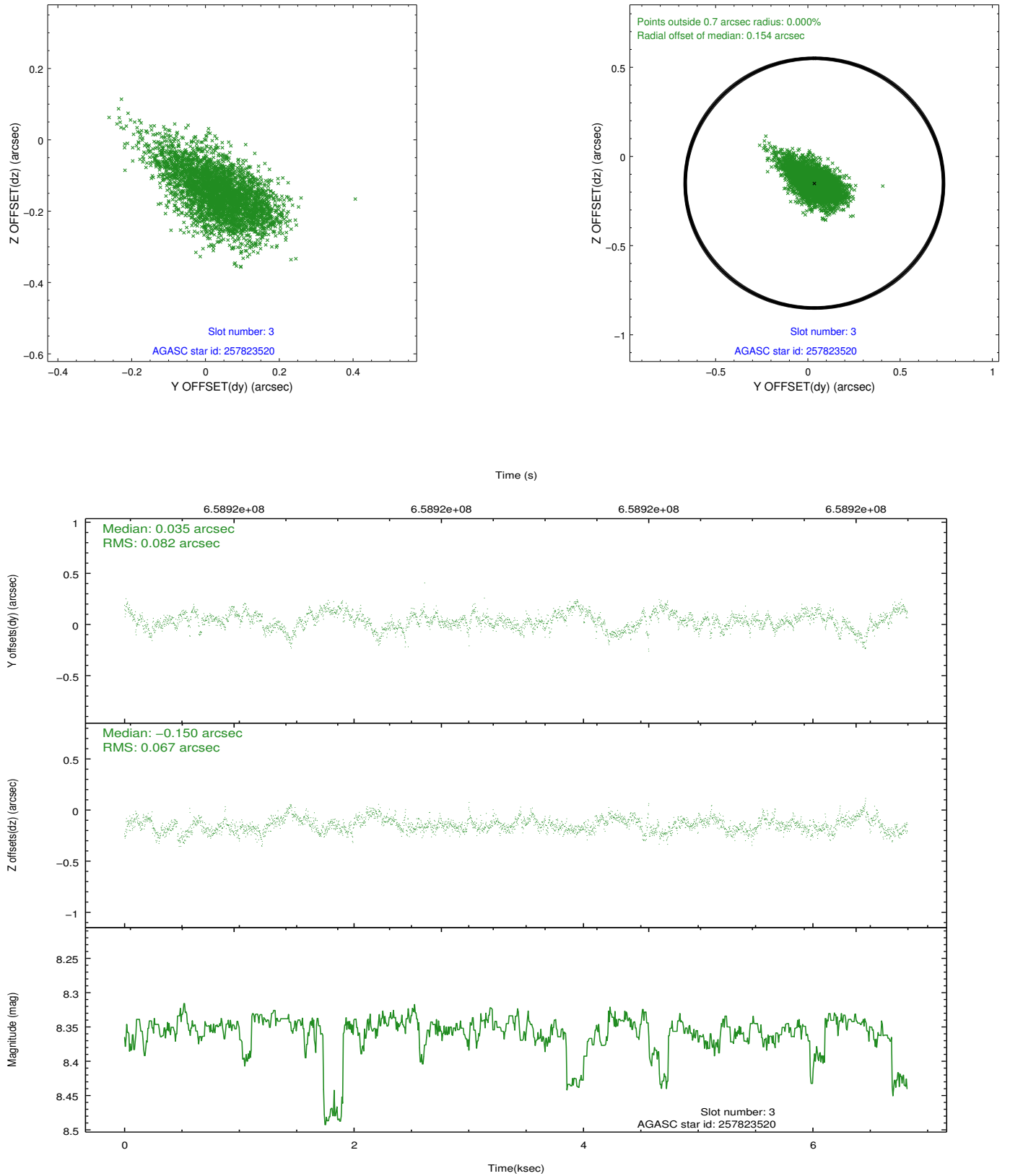


Slot Statistics

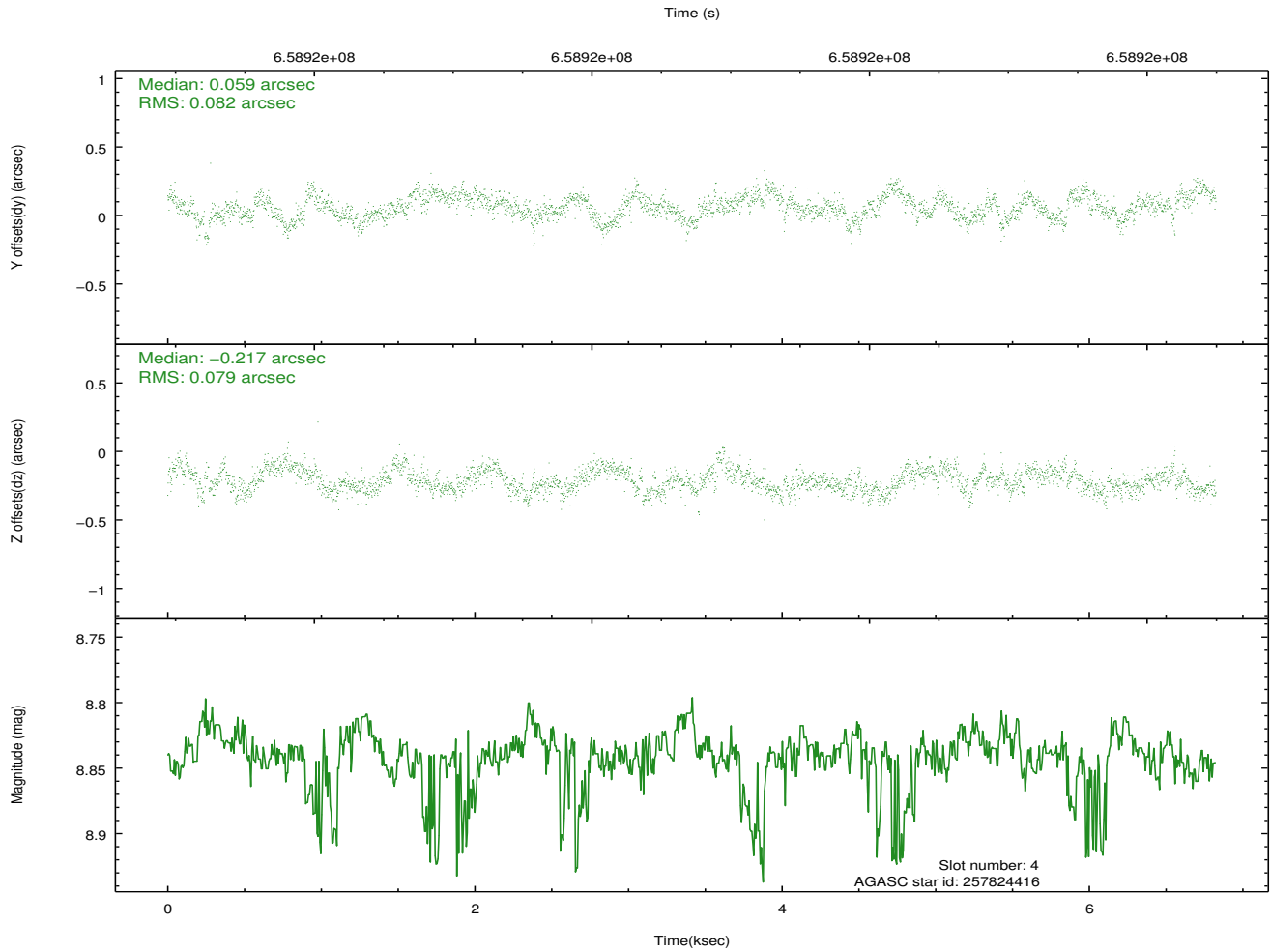
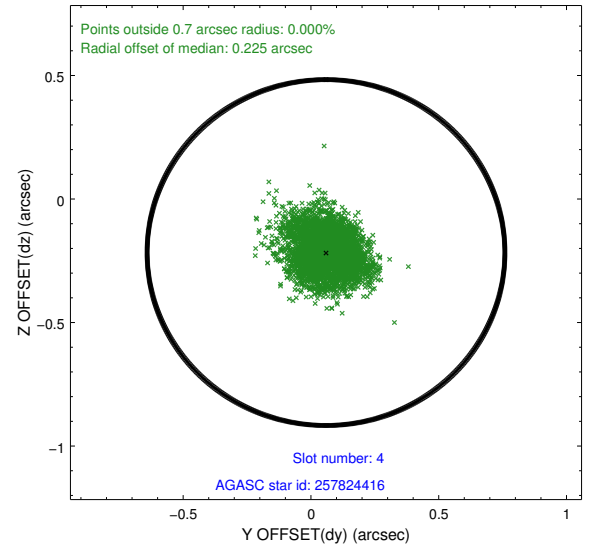
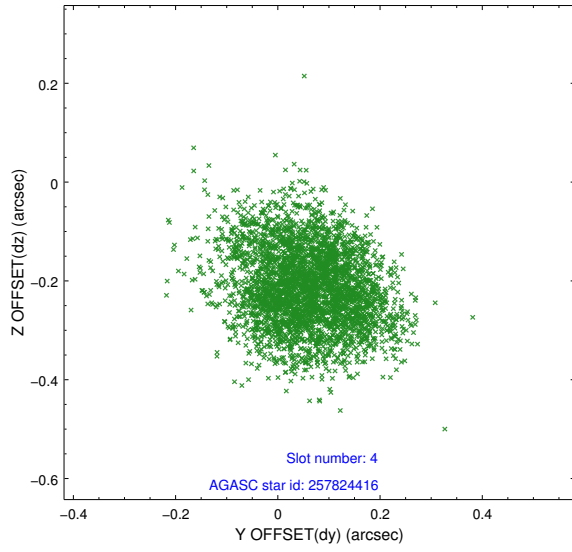
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.08	1665	1.000	-0.287	-0.178	0.007	0.011	0.000000	0.000000	-763.18	-1738
1	FID		ACIS-S-4	7.22	1665	1.000	0.694	0.186	0.005	0.011	0.000000	0.000000	2150.65	169
2	FID		ACIS-S-5	7.19	1665	1.000	-0.438	0.000	0.007	0.012	0.000000	0.000000	-1815.12	163
3	GUIDE	used	257823520	8.35	3327	1.000	0.035	-0.150	0.110	0.189	150.413966	28.521916	-1937.41	1302
4	GUIDE	used	257824416	8.84	3322	1.000	0.059	-0.217	0.122	0.192	150.393054	28.566740	-1809.30	1420
5	GUIDE	used	258743344	9.22	3320	1.000	0.107	0.270	0.155	0.244	151.425692	28.637479	-433.67	-1549
6	GUIDE	used	258744504	8.05	3325	1.000	-0.279	-0.094	0.202	0.337	151.811616	29.237742	2018.78	-1922
7	GUIDE	used	258744752	8.32	3329	1.000	0.060	0.162	0.118	0.184	151.413393	28.723095	-158.14	-1405

2.4 Star Slots

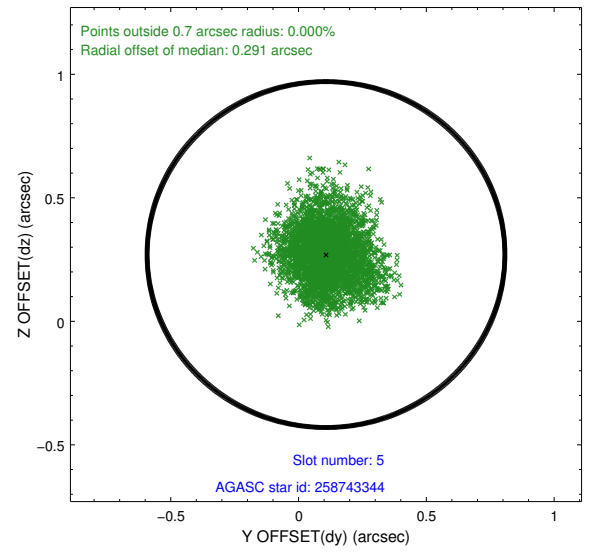
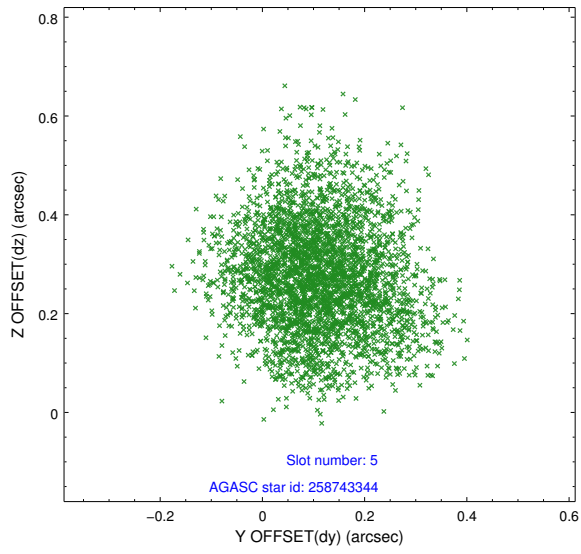
2.4.1 Slot 3



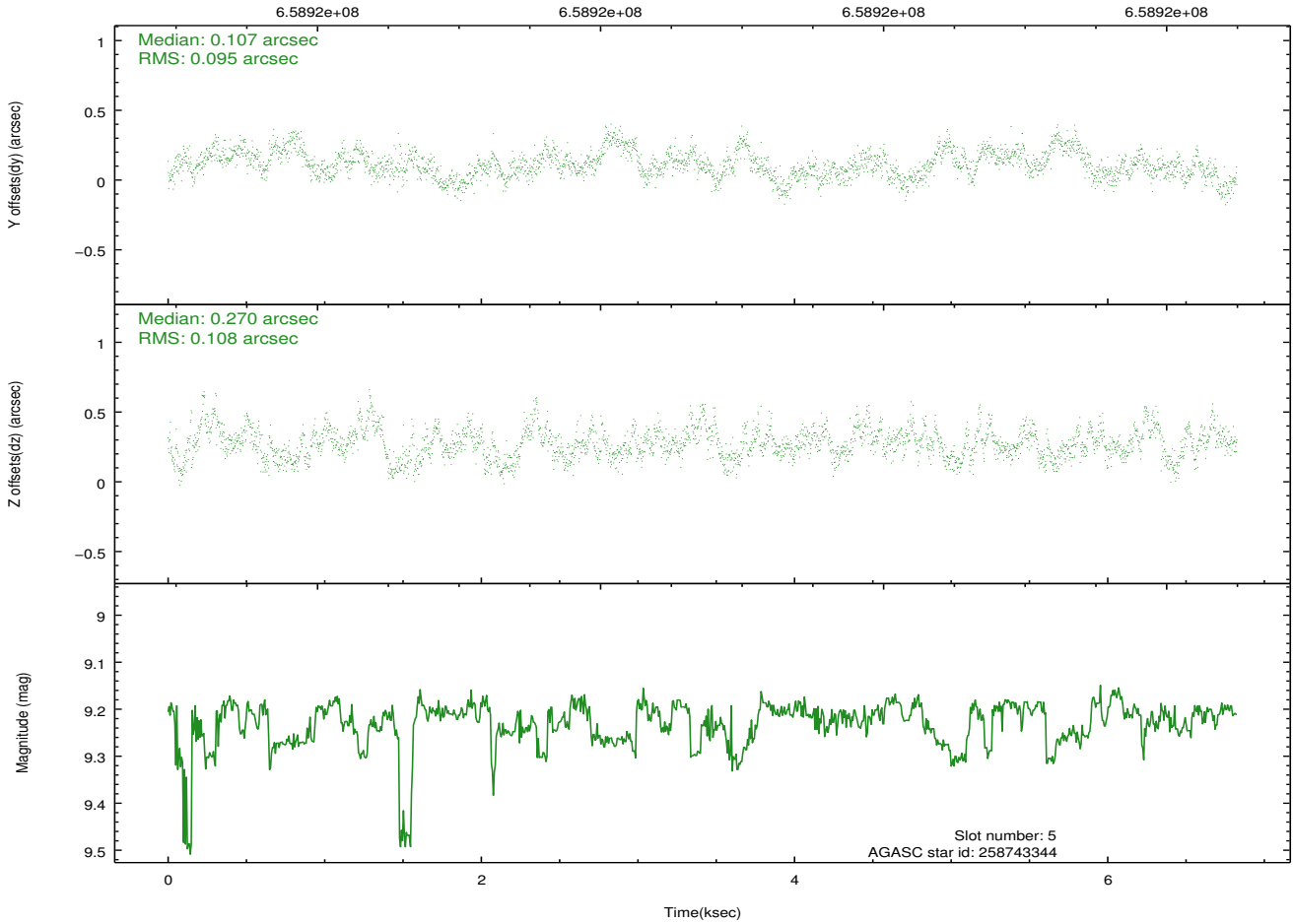
2.4.2 Slot 4



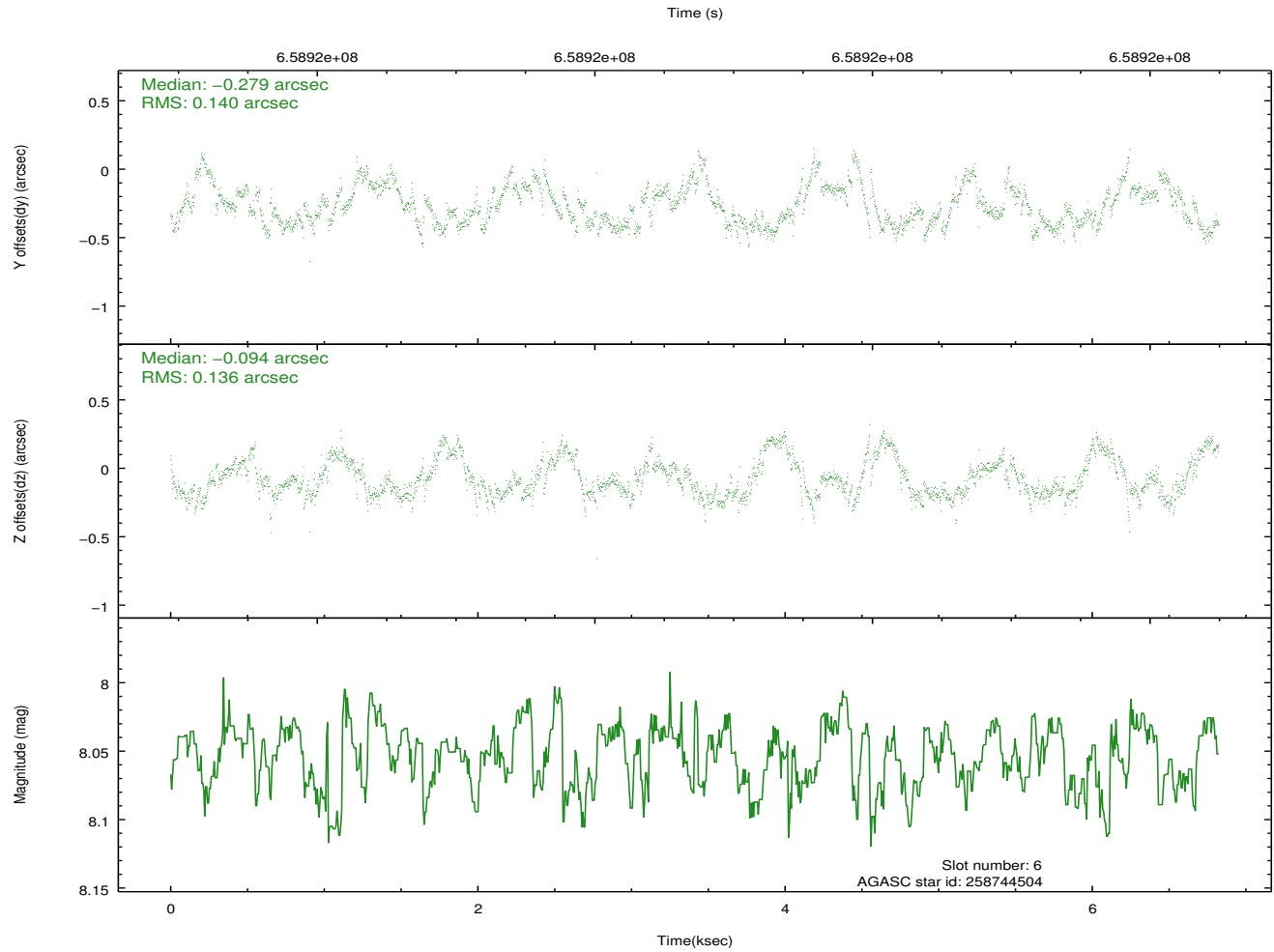
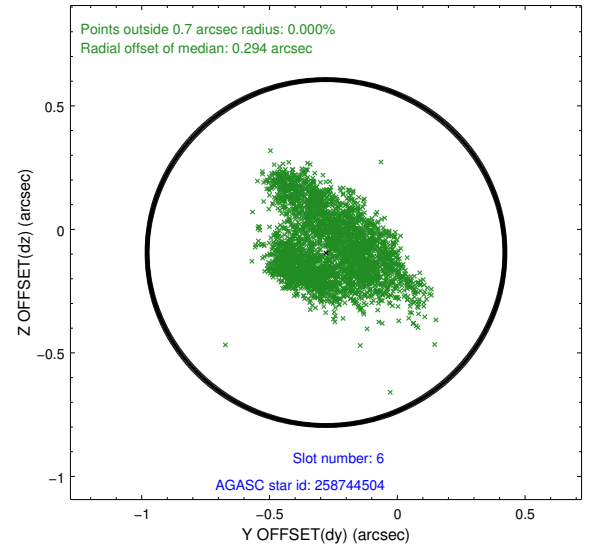
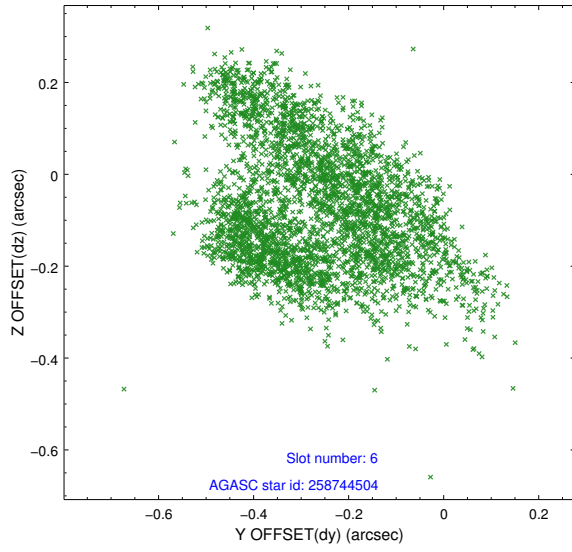
2.4.3 Slot 5



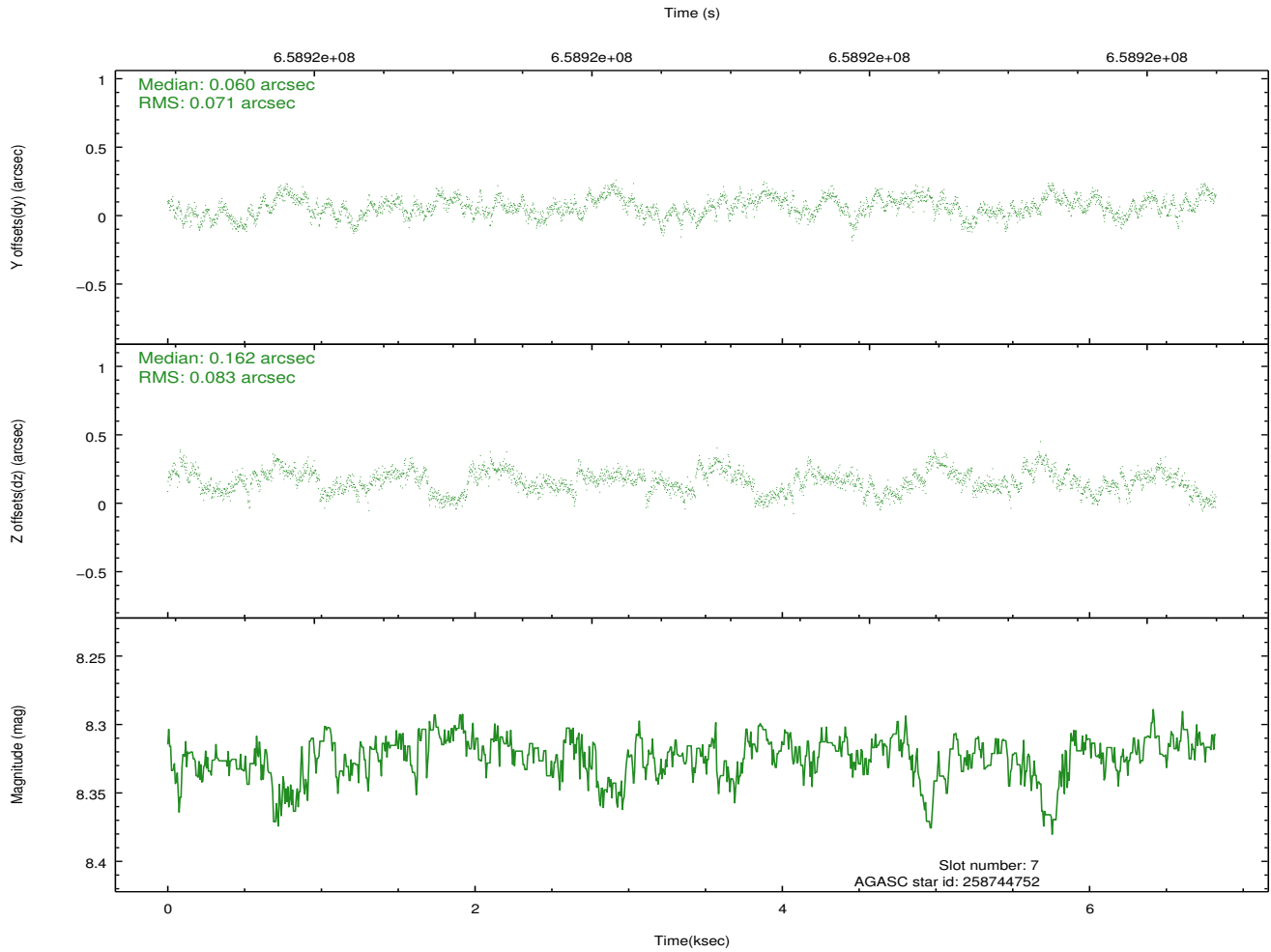
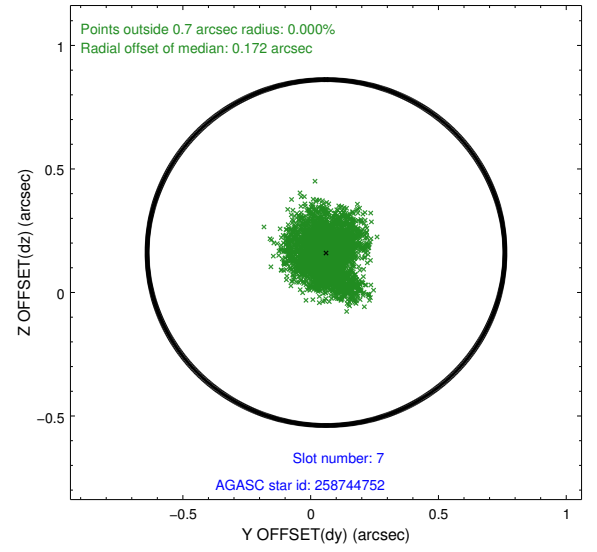
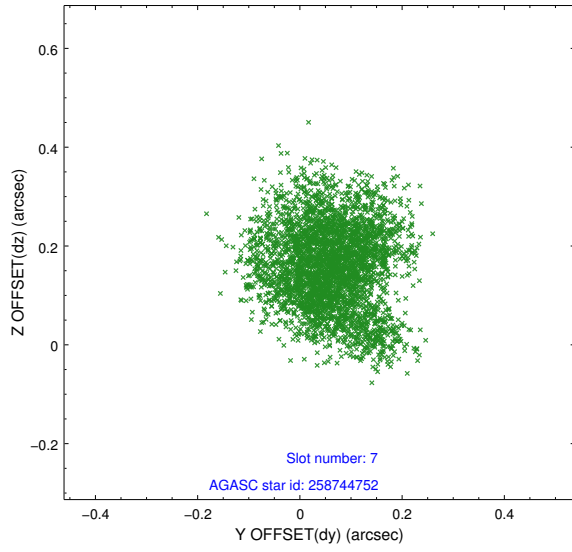
Time (s)



2.4.4 Slot 6

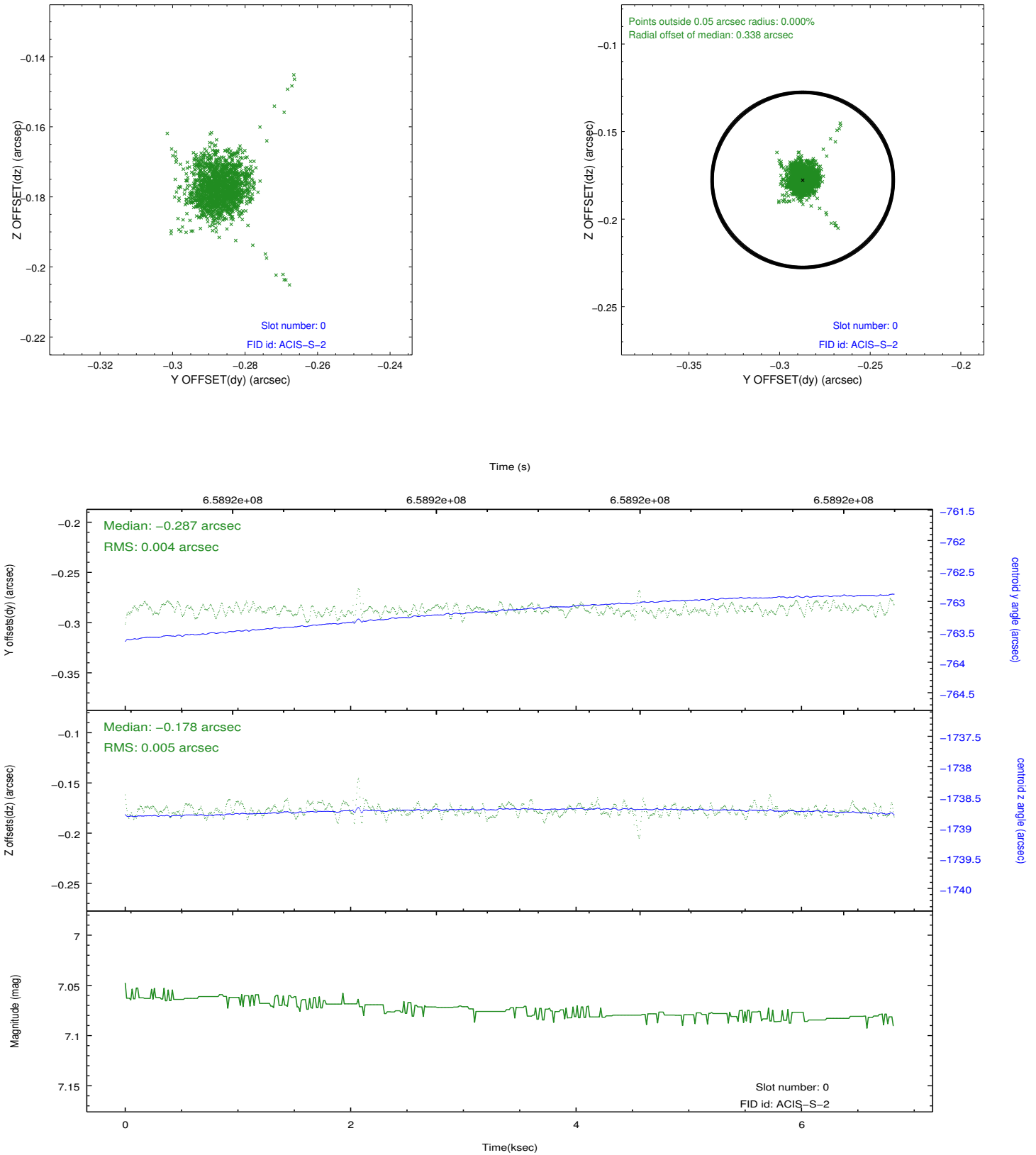


2.4.5 Slot 7

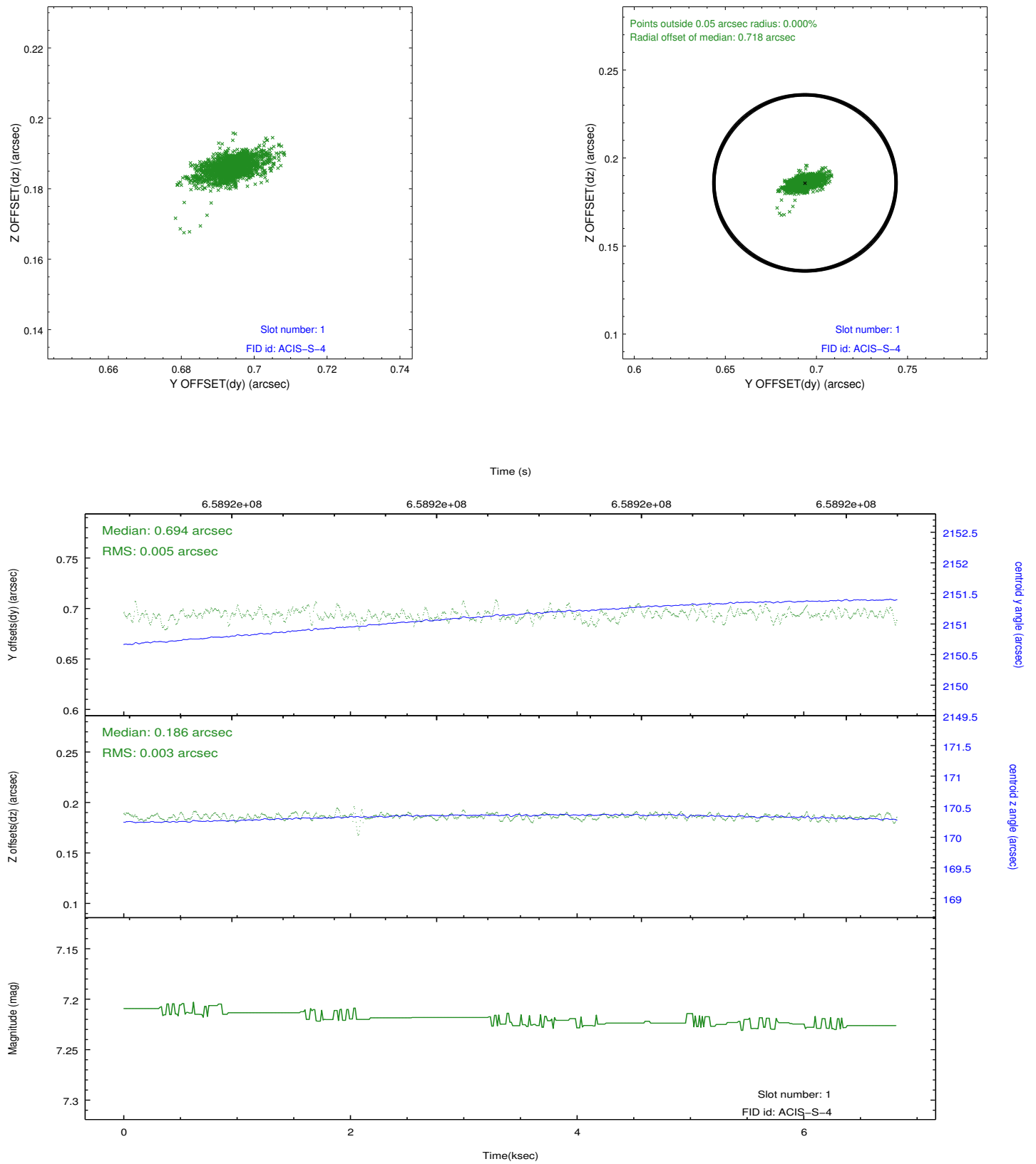


2.5 FID Slots

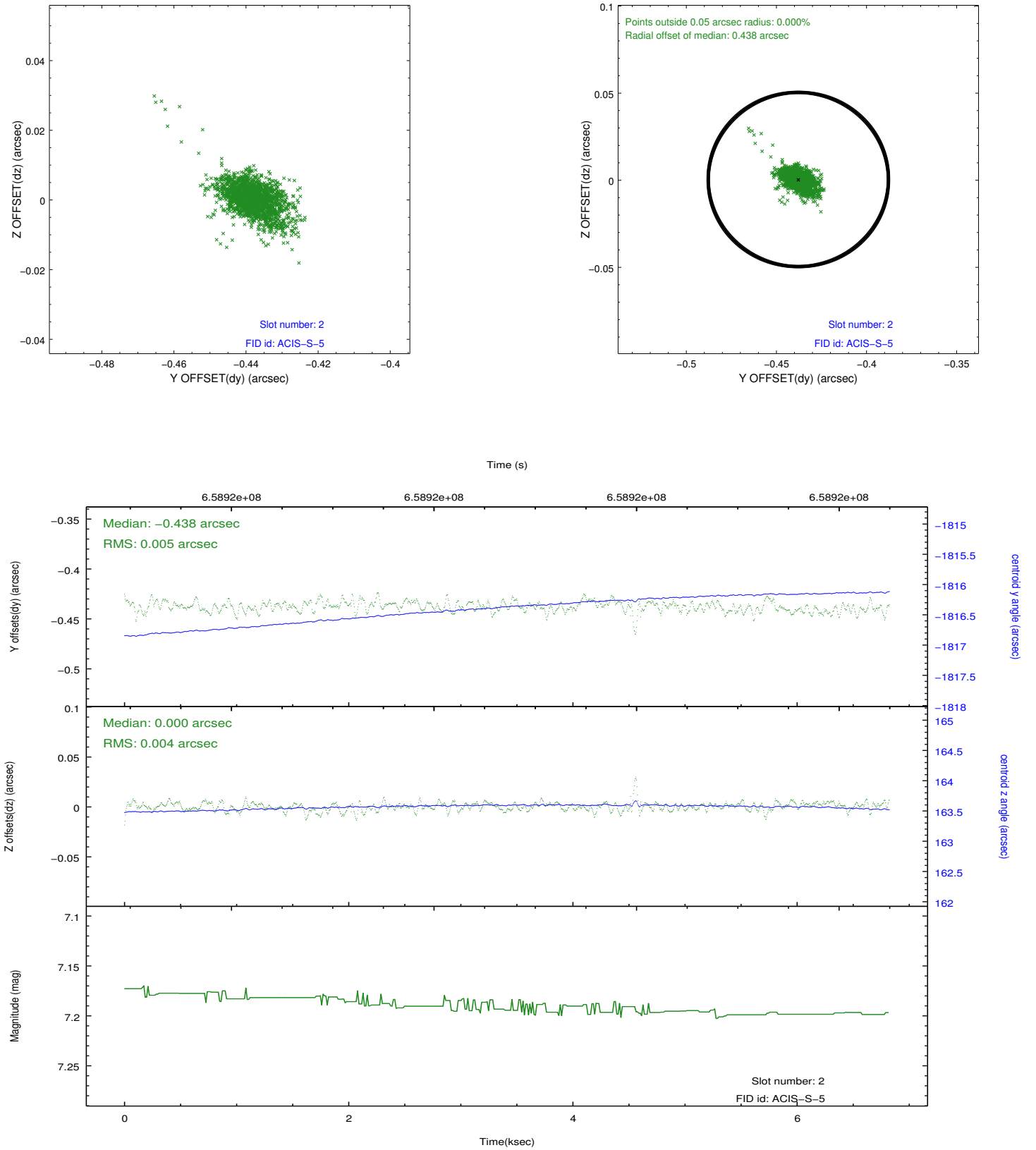
2.5.1 Slot 0



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)	2018.11.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.7426945123672

A.2 Comments