

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21444 - L2 Version 1
Chandra X-Ray Center

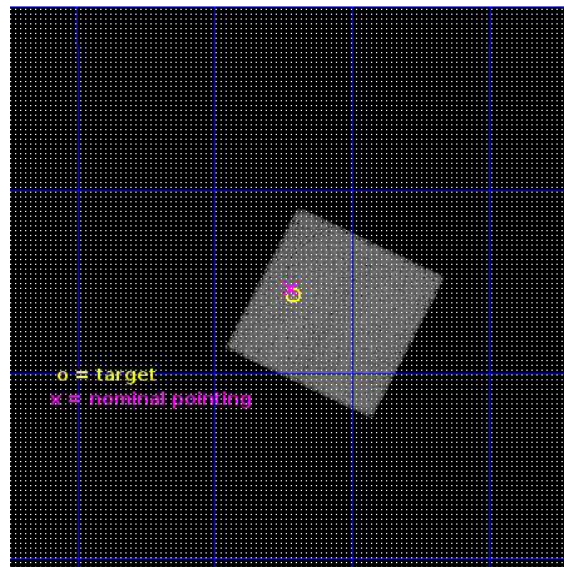
L2 Processing Date : Oct 27 2018

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1 Front

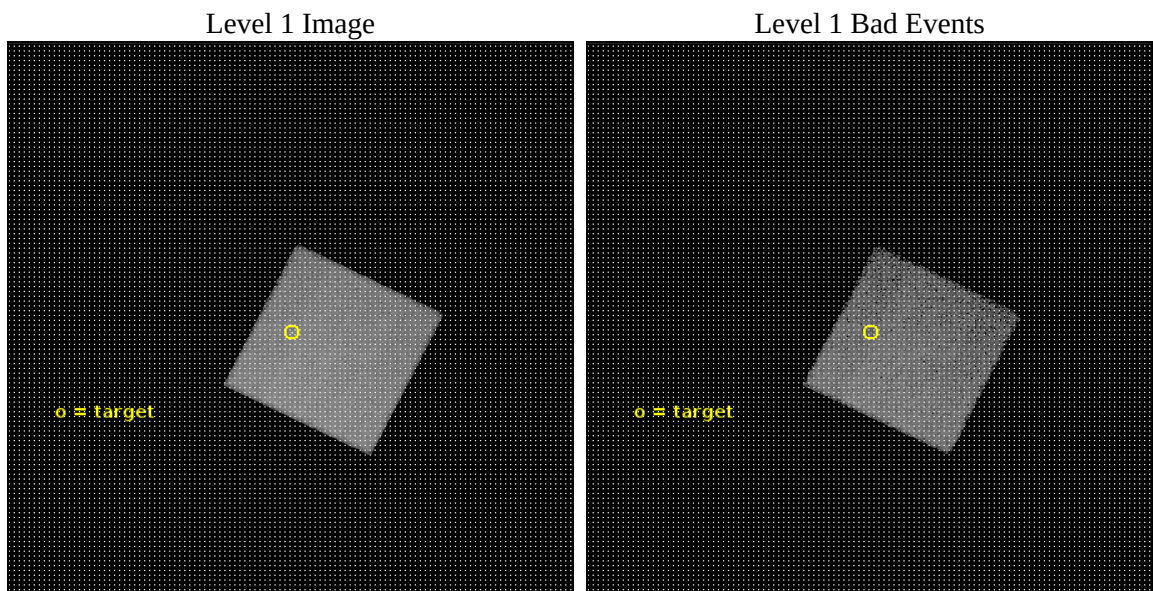
seq_num	703741	Sequence number
obs_id	21444	Observation id
title	Chandra Observations of Five New Quads and a Quint	Proposal title
observer	David Pooley	Principal investigator
object	ATLAS 0259-1635	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	44.928333	Observer's specified target RA [deg]
dec_targ	-16.595278	Observer's specified target Dec [deg]
ra_nom	44.930080825141	Nominal RA [deg]
dec_nom	-16.589371189403	Nominal Dec [deg]
roll_nom	26.431592474053	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25088.737179756	Sum of GTIs [s]
livetime	24750.155058555	Livetime [s]
ontime7	25088.737179756	Sum of GTIs [s]
l2events	102658	Number of level 2 events



2 OBI

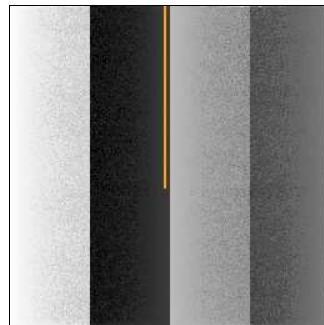
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4.1	Processing system revision	ontime	25088.737179756	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime7	25088.737179756	Sum of GTIs [s]
date	2018-10-27T16:32:16	Date and time of file creation	l1events	242588	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

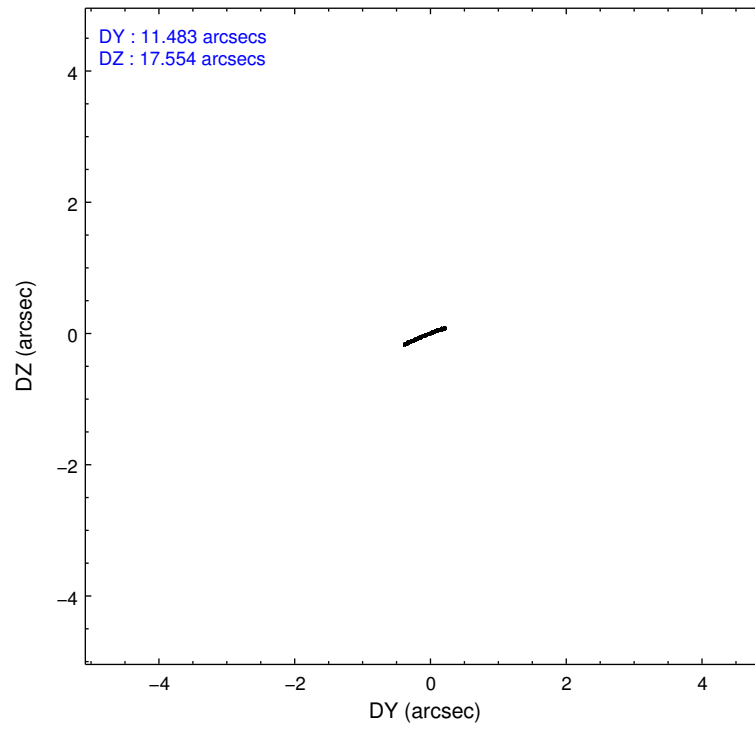
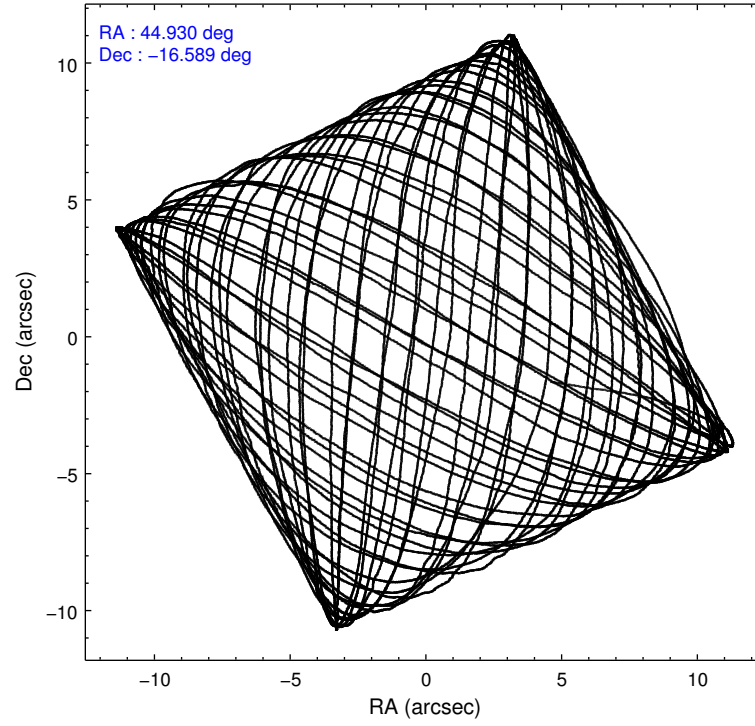
	ccd 7
level 1 events	242588
rejected events	137065
rejected %	56%

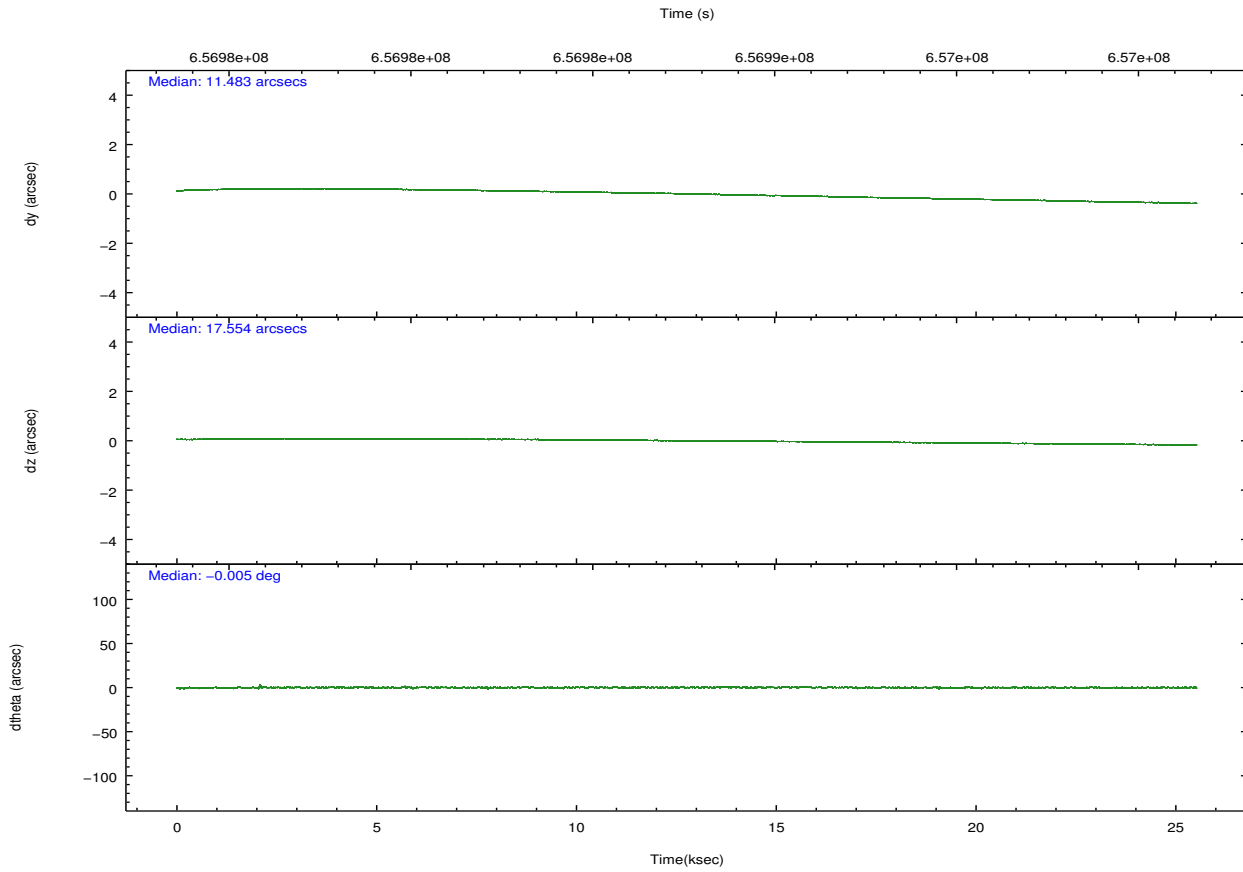
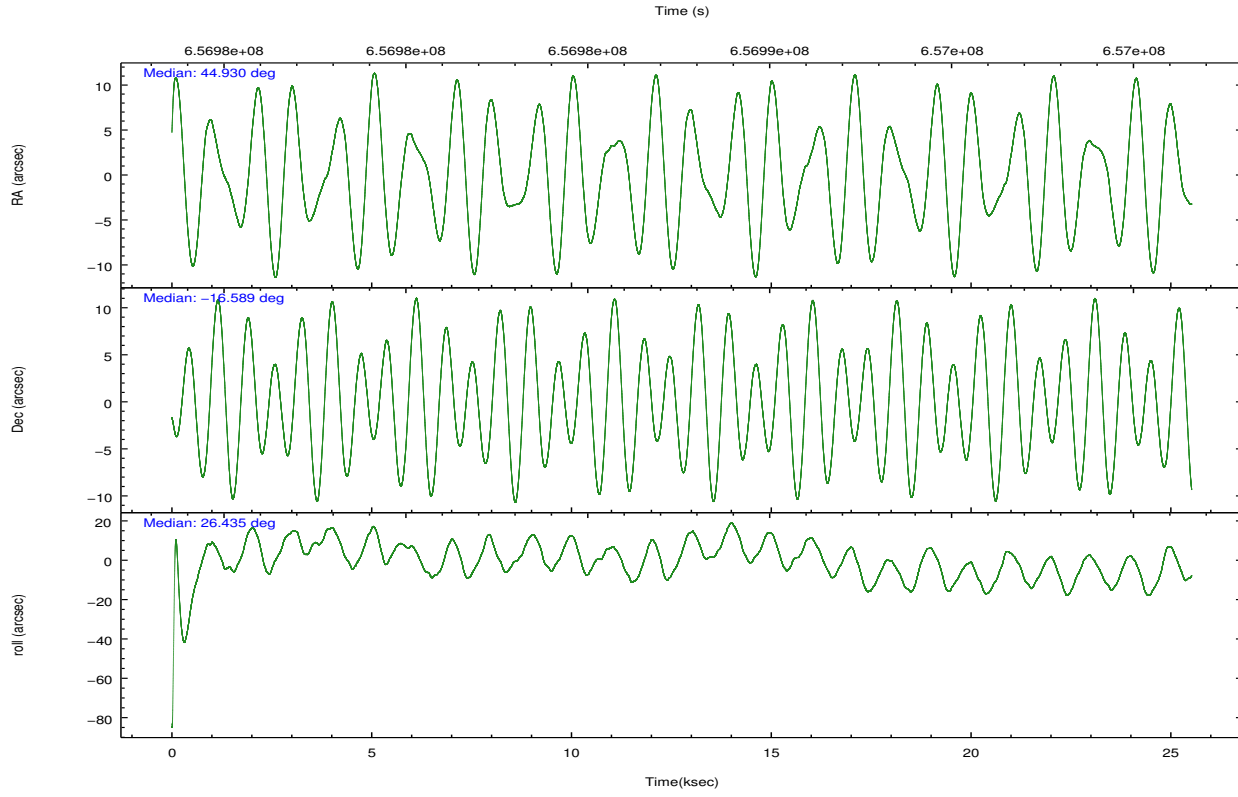
	ccd 7
grade 0 events	8910
	3%
grade 1 events	377
	0%
grade 2 events	21583
	8%
grade 3 events	8328
	3%
grade 4 events	8113
	3%
grade 5 events	23200
	9%
grade 6 events	58622
	24%
grade 7 events	113455
	46%

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	44.914549	44.93008082514066	CCD I2 on	N	N
[deg] Pointing Dec	-16.612445	-16.58937118940338	CCD I3 on	N	N
[deg] Pointing Roll	26.270587	26.43159247405302	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	N
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O3	N
[s] Observation start time (MET)	656975354.184000	656974443.59671	CCD S5 on	O1	N
Observation start date	2018-10-26T21:08:05	2018-10-26T20:54:03	Number of optional ACIS chips dropped	4	4
[s] Observation end time (MET)	657000354.184000	657000677.44827	On-chip summing requested	N	N
Observation end date	2018-10-27T04:04:45	2018-10-27T04:11:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3

2.3 Aspect



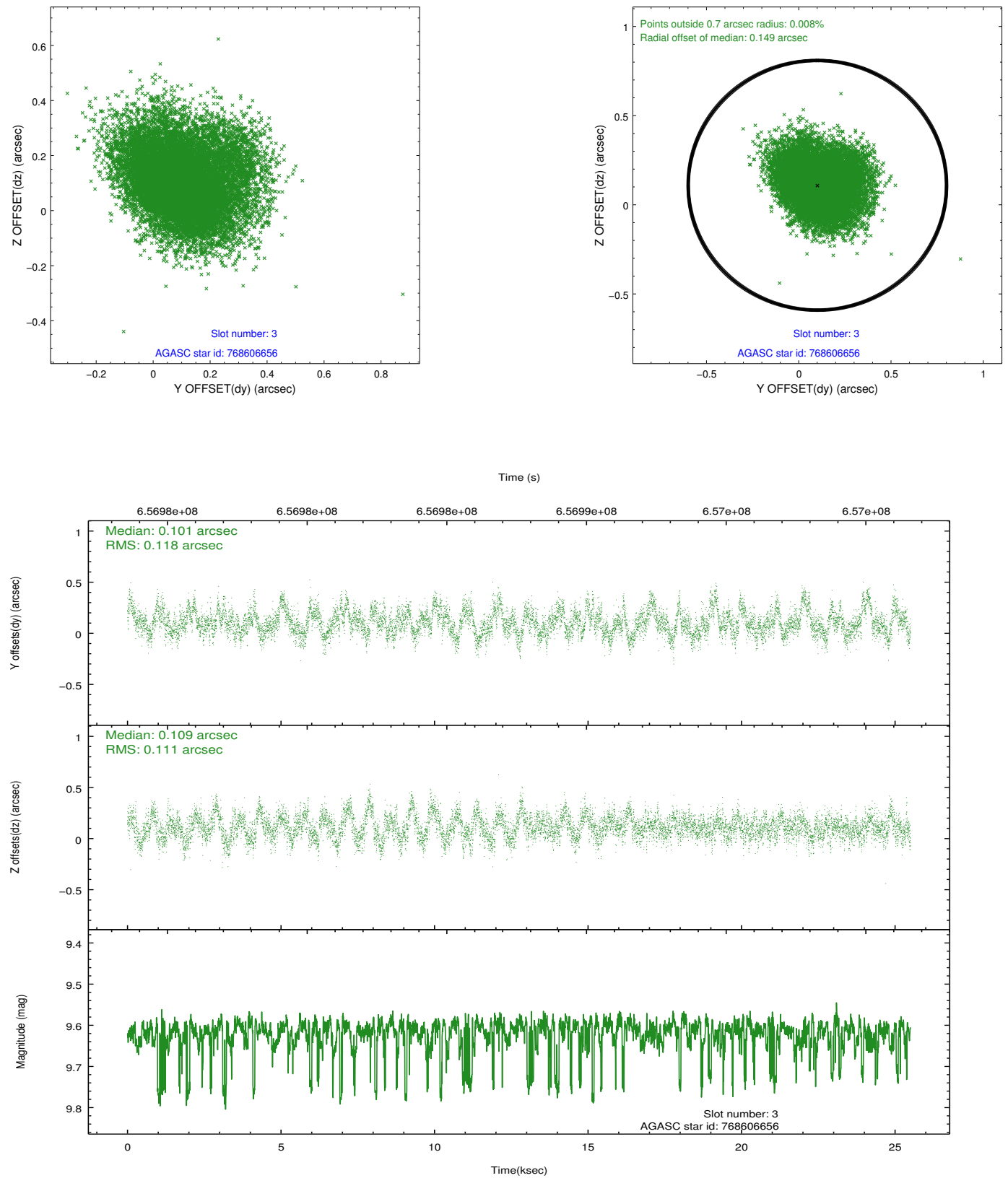


Slot Statistics

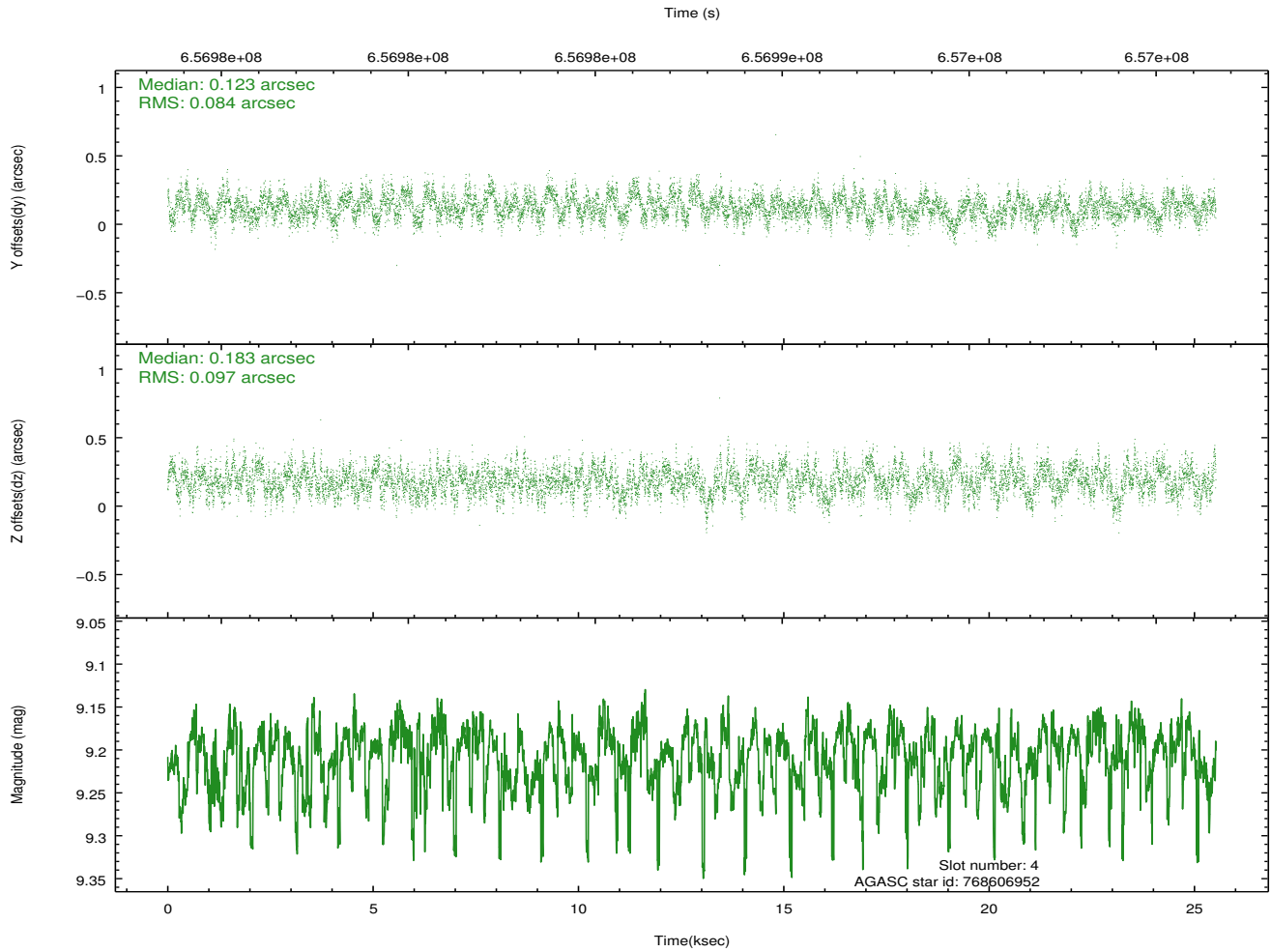
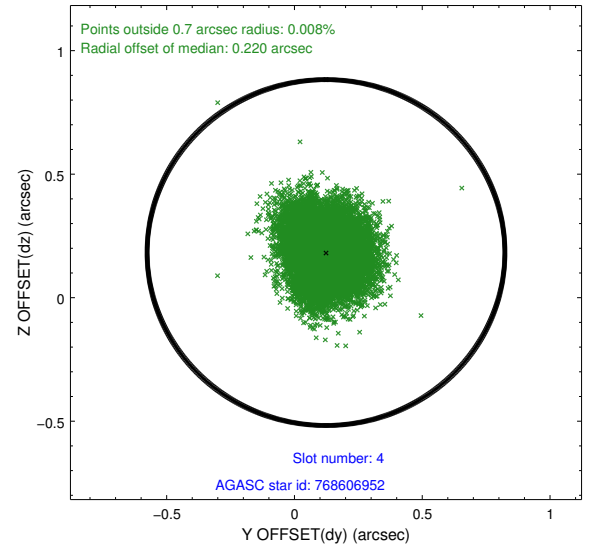
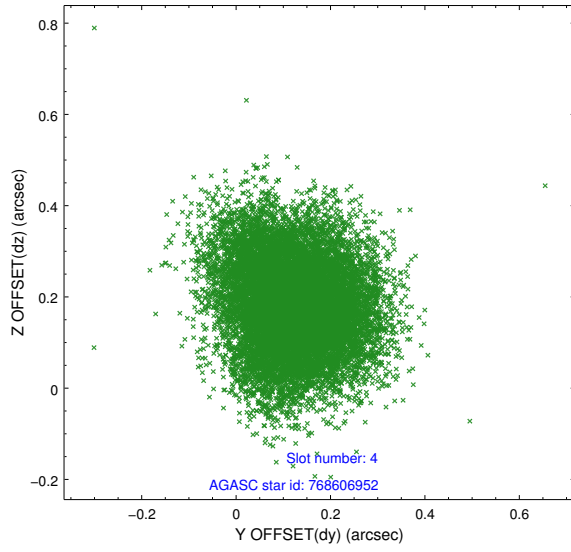
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.16	6225	1.000	-0.274	-0.222	0.012	0.019	0.000000	0.000000	-764.56	-1739
1	FID		ACIS-S-4	7.31	6223	1.000	0.730	0.191	0.006	0.011	0.000000	0.000000	2149.62	169
2	FID		ACIS-S-5	7.29	6225	1.000	-0.488	0.039	0.014	0.022	0.000000	0.000000	-1817.52	163
3	GUIDE	used	768606656	9.62	12399	1.000	0.101	0.109	0.173	0.279	44.289751	-16.621574	-1949.28	921
4	GUIDE	used	768606952	9.21	12439	1.000	0.123	0.183	0.138	0.220	44.989907	-16.698683	95.48	-392
5	GUIDE	used	768607024	8.68	12439	1.000	0.211	0.149	0.112	0.180	44.925453	-16.725697	-146.09	-382
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
7	GUIDE	used	768613752	7.91	12444	1.000	-0.438	-0.436	0.107	0.163	45.020721	-16.066603	1200.21	1599

2.4 Star Slots

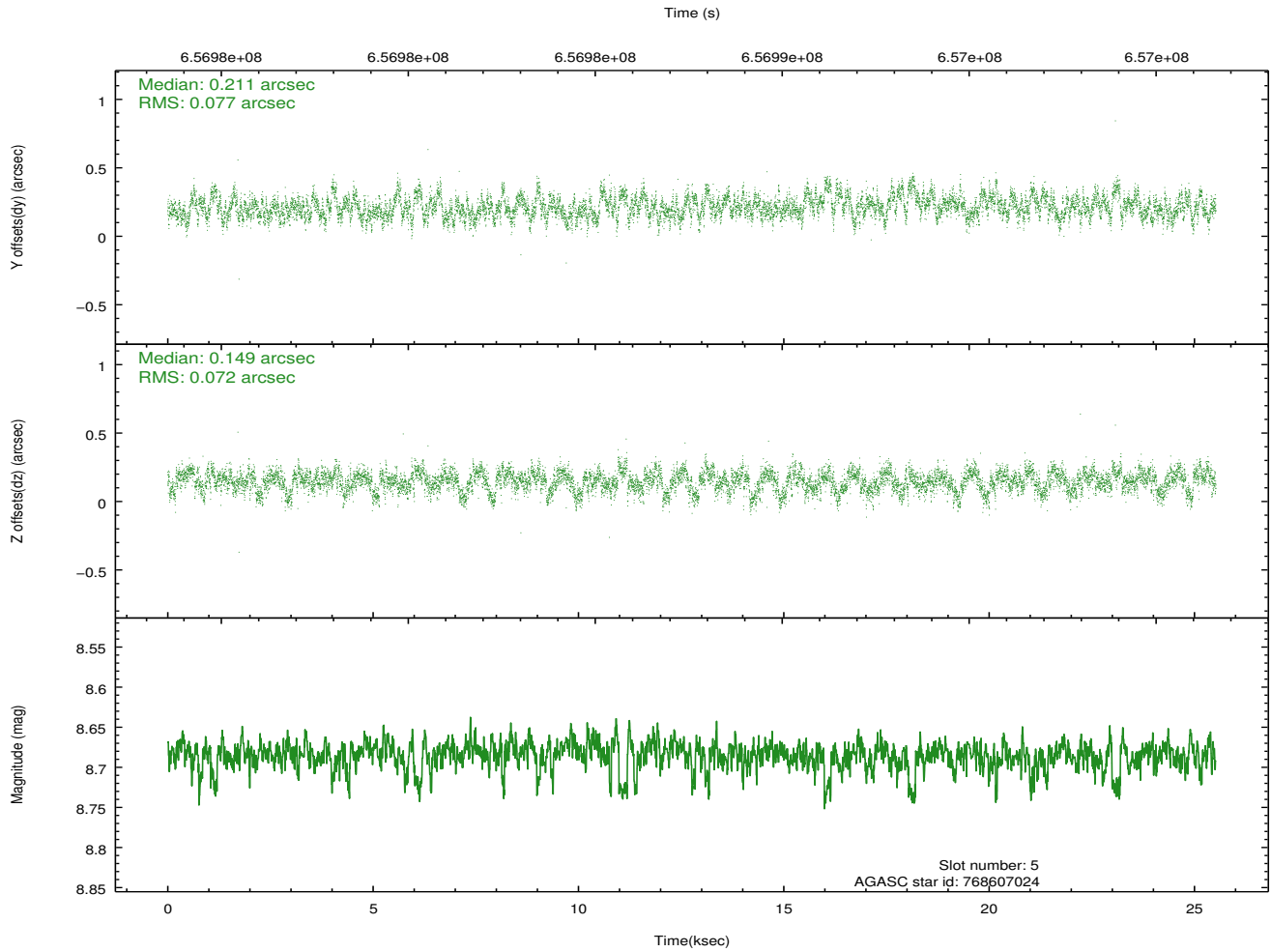
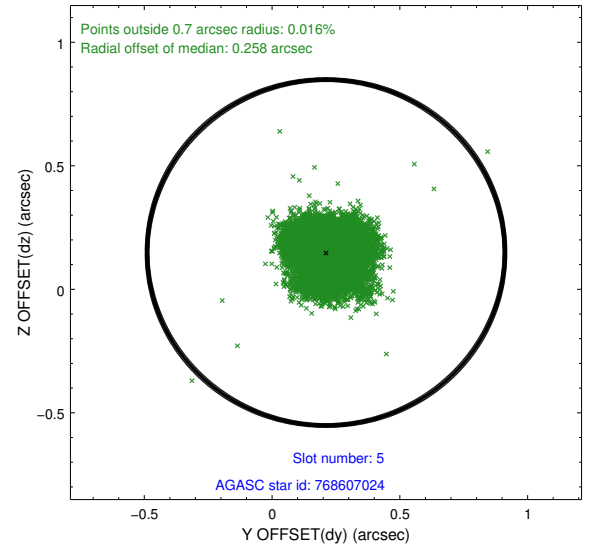
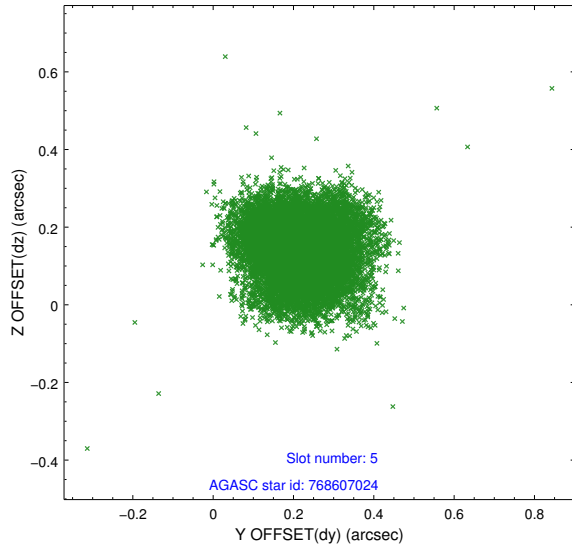
2.4.1 Slot 3



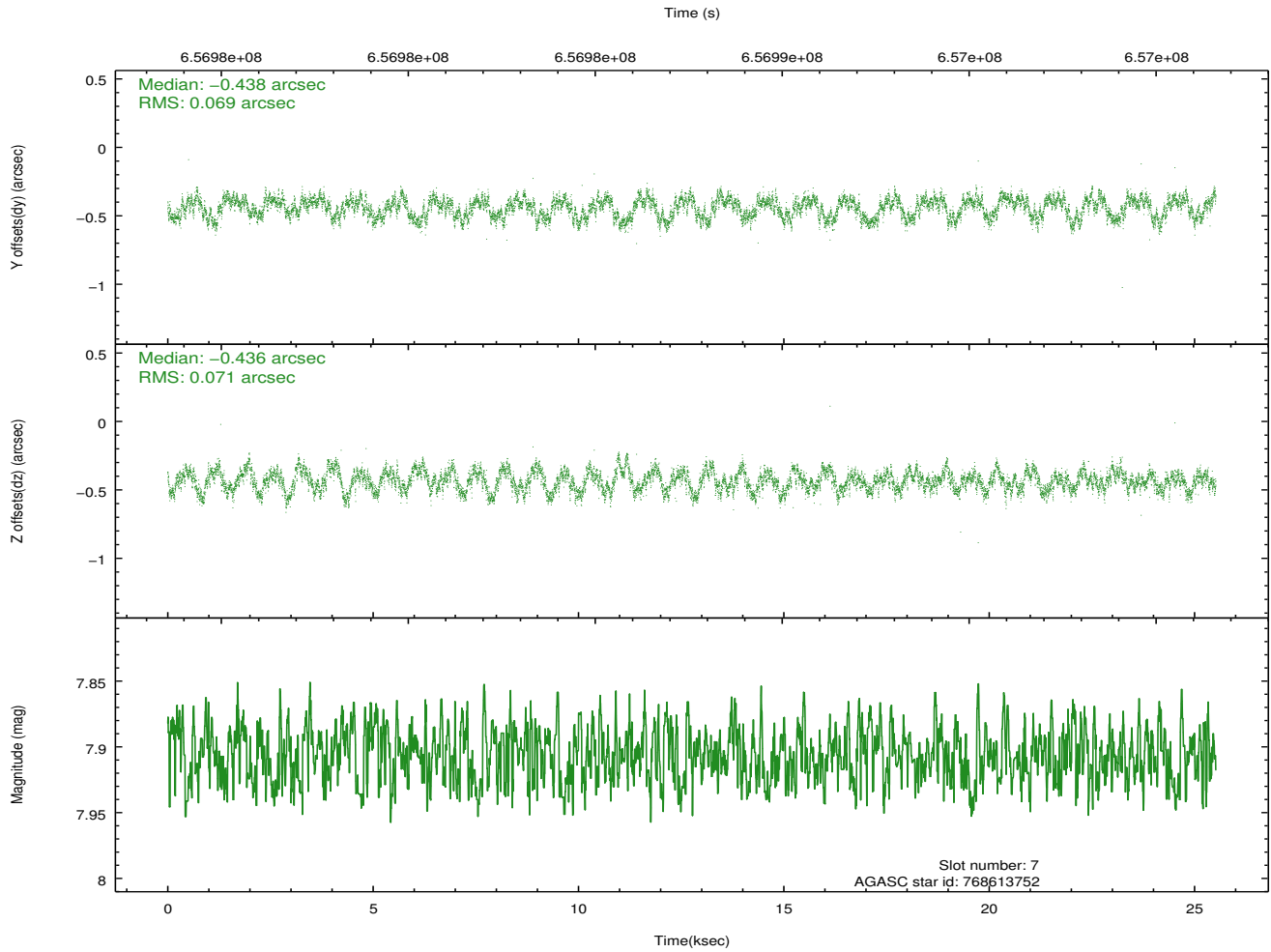
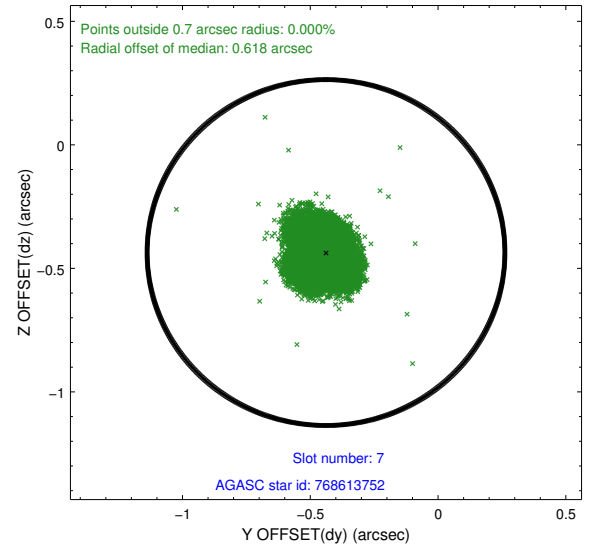
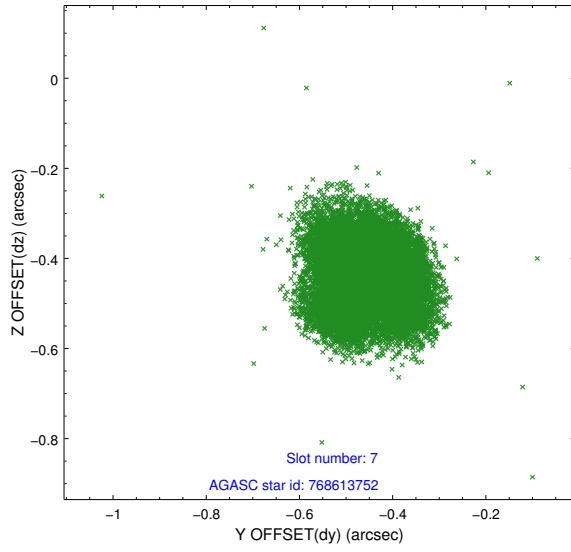
2.4.2 Slot 4



2.4.3 Slot 5

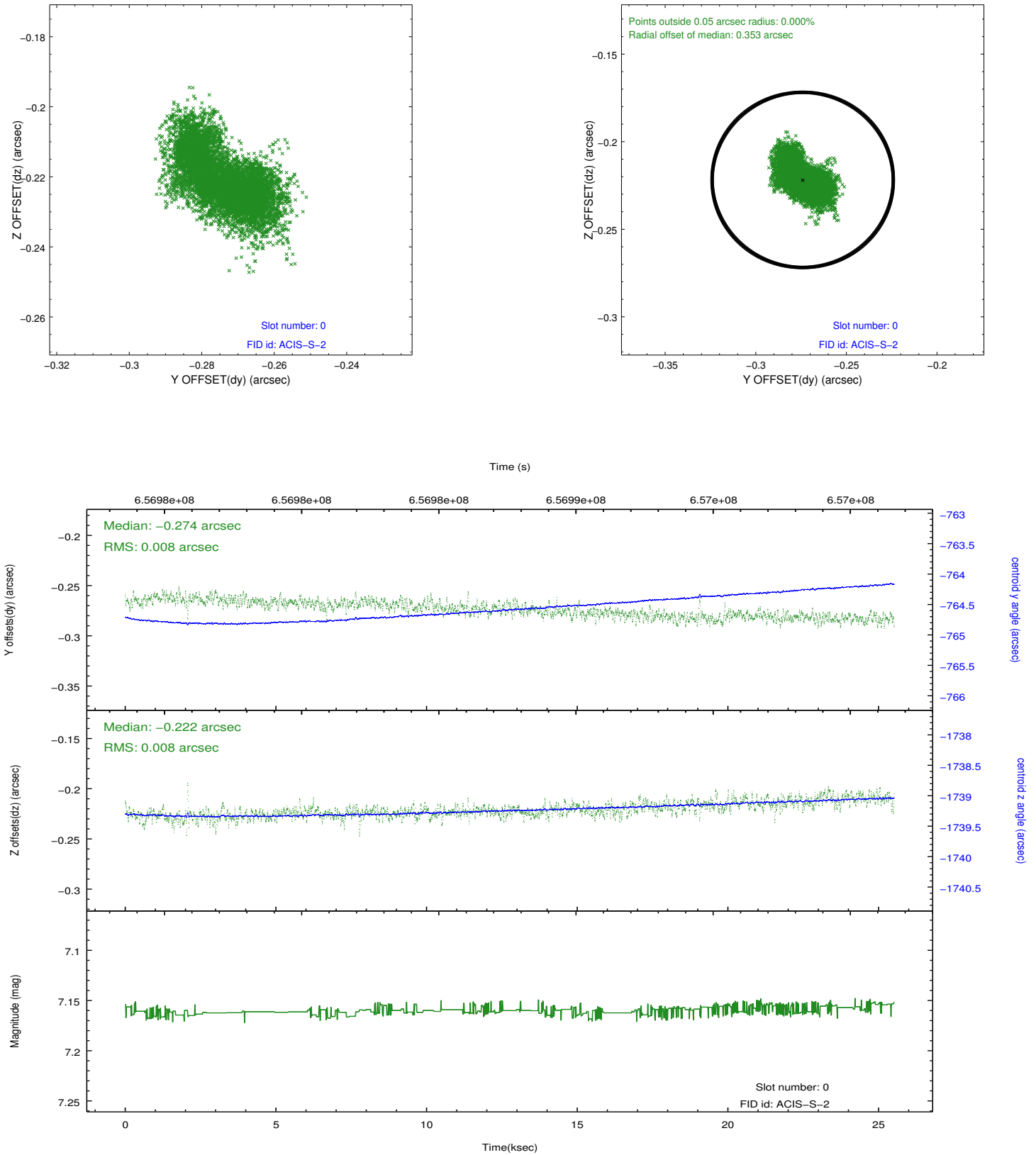


2.4.4 Slot 7

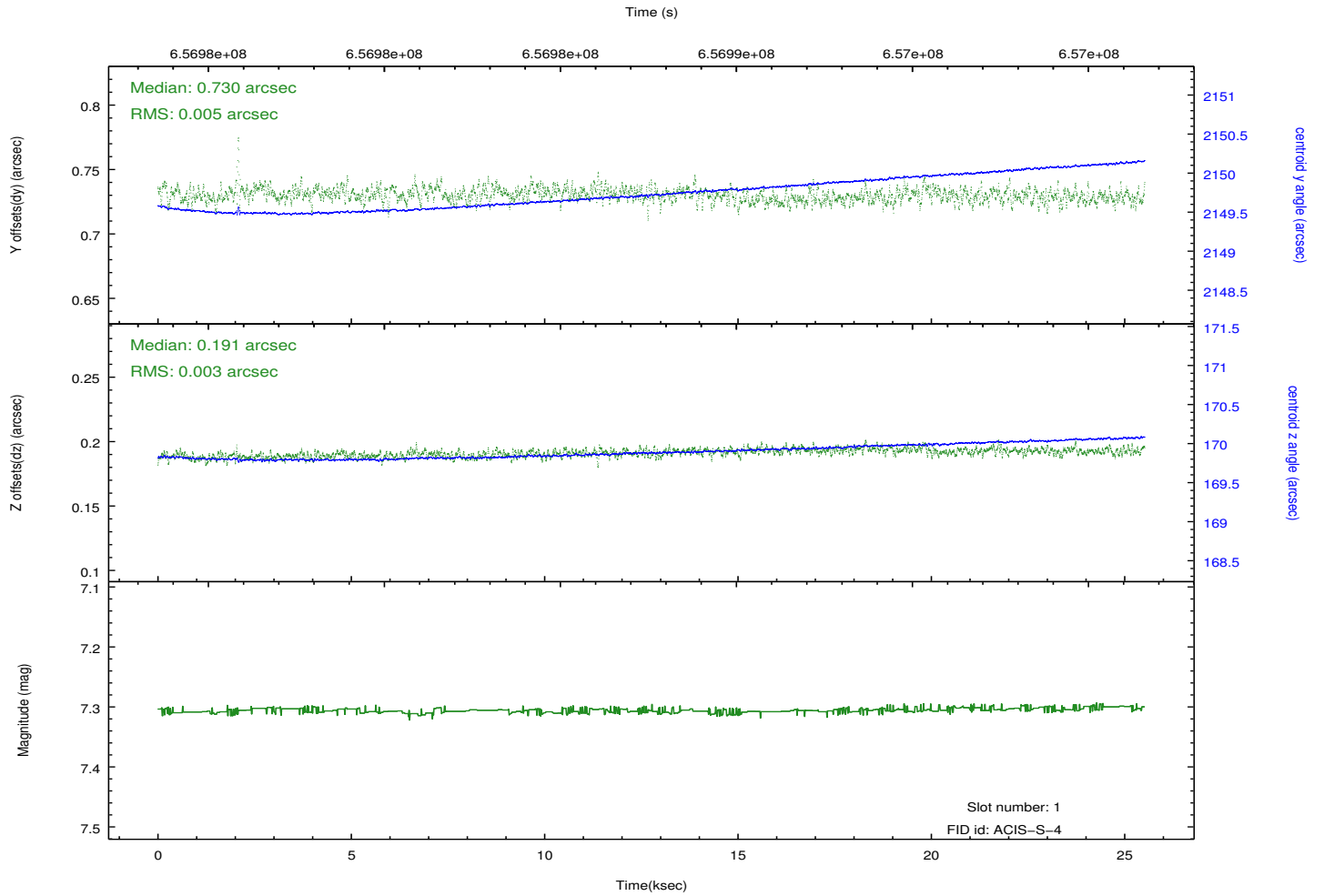
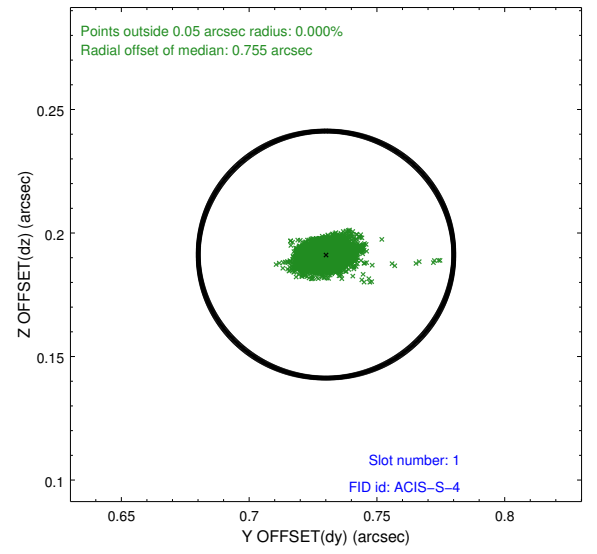
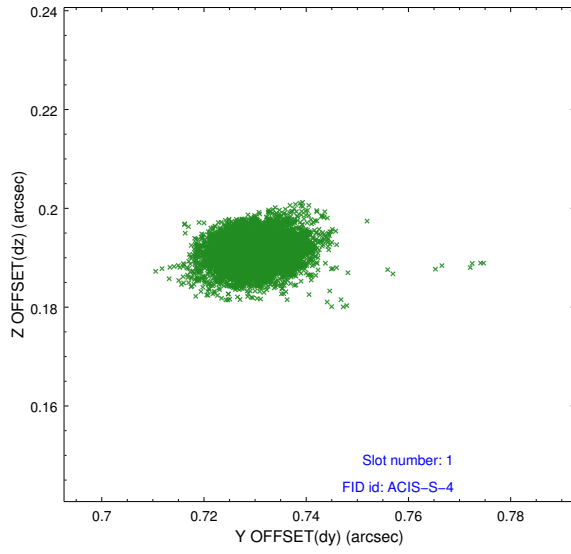


2.5 FID Slots

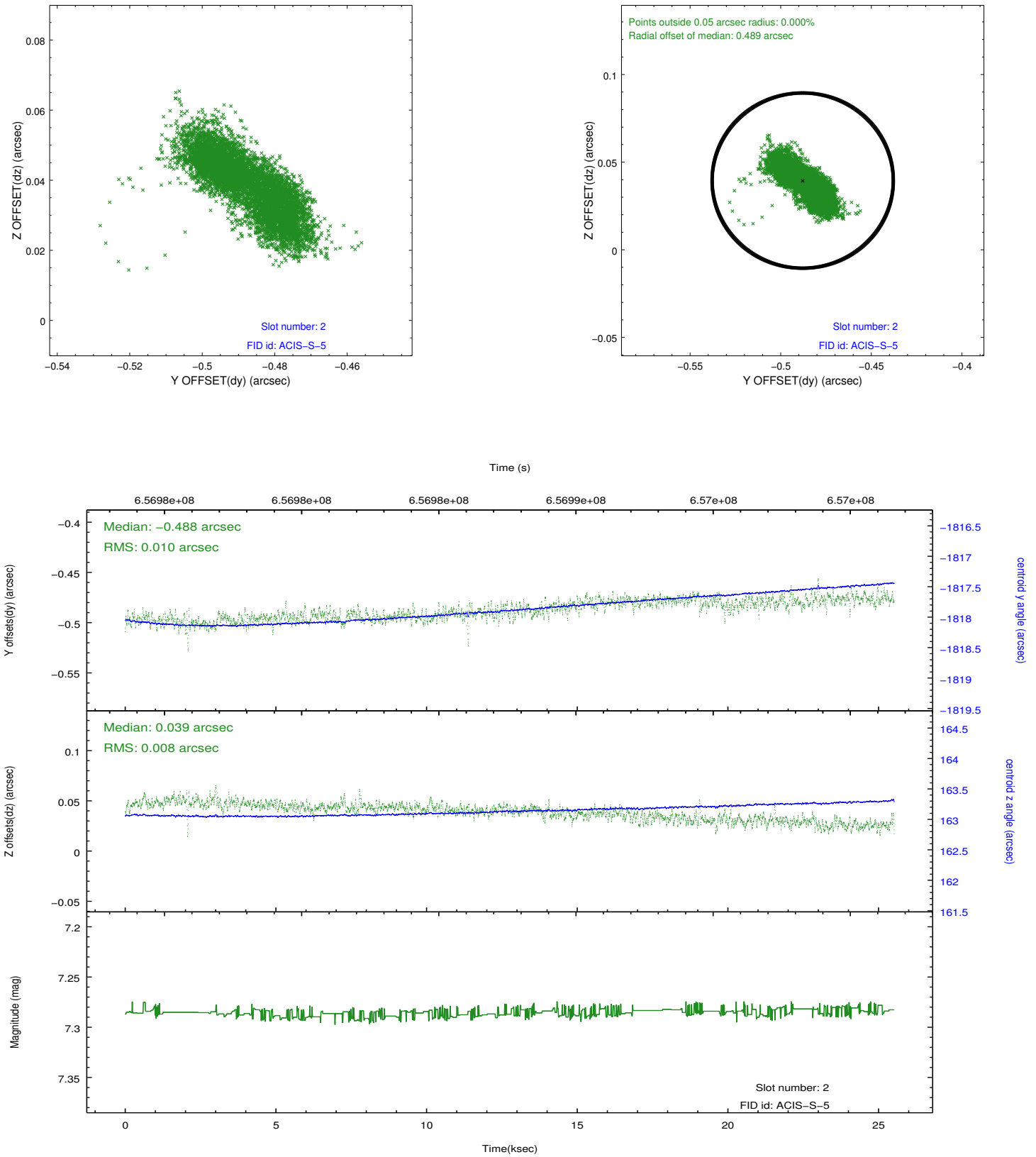
2.5.1 Slot 0



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)	2018.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.088737179756

A.2 Comments

Four optional chips were dropped.

The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.