

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18217 - L2 Version 1
Chandra X-Ray Center

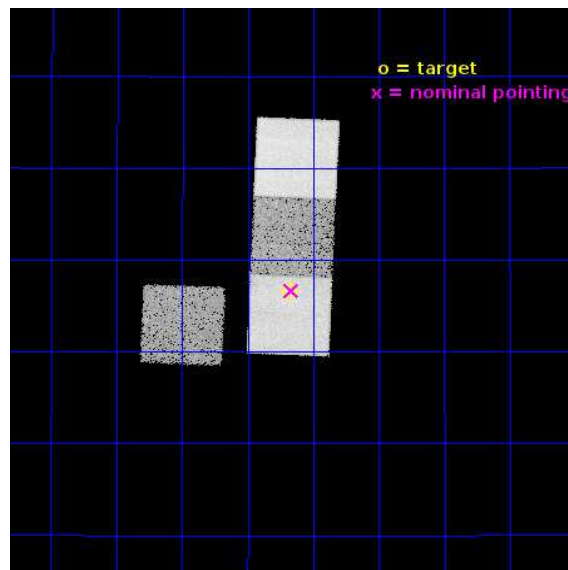
L2 Processing Date : Jan 30 2016

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1 Front

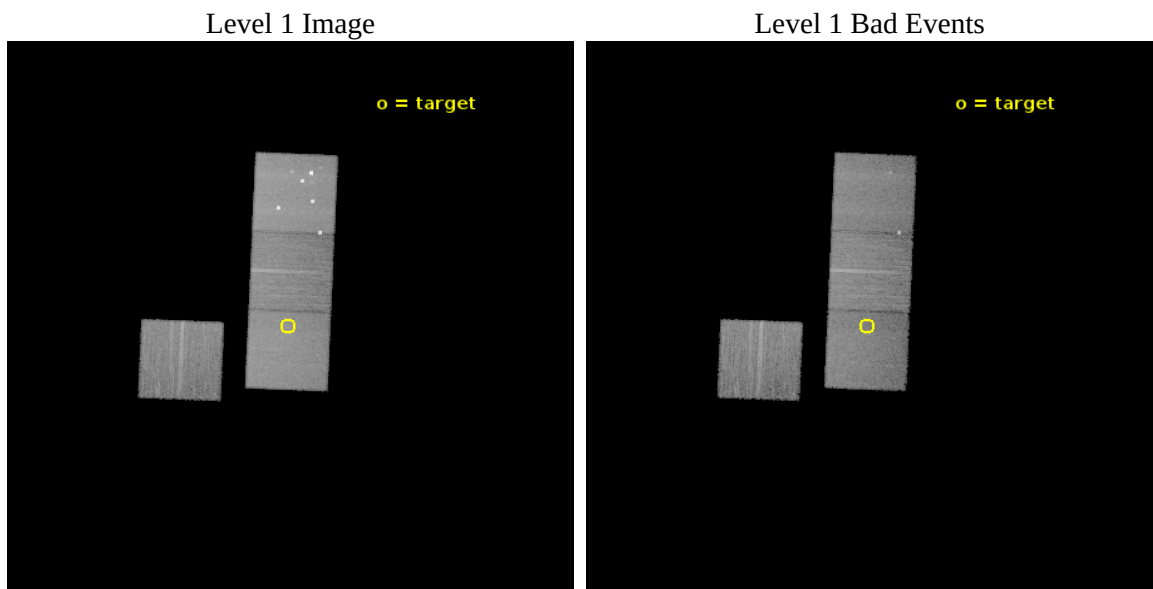
seq_num	801545	Sequence number
obs_id	18217	Observation id
title	Searching for Fossil Group Progenitors Via Strong Gravitational Lensing	Proposal title
observer	Mr. Lucas Johnson	Principal investigator
object	CSWA 26	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.294167	Observer's specified target RA [deg]
dec_targ	23.944306	Observer's specified target Dec [deg]
ra_nom	168.29153293136	Nominal RA [deg]
dec_nom	23.944368034064	Nominal Dec [deg]
roll_nom	92.41851187167	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20065.714980125	Sum of GTIs [s]
livetime	19803.541641746	Livetime [s]
ontime3	20053.02758944	Sum of GTIs [s]
ontime5	20065.673940182	Sum of GTIs [s]
ontime6	20056.209629297	Sum of GTIs [s]
ontime7	20065.714980125	Sum of GTIs [s]
l2events	182151	Number of level 2 events



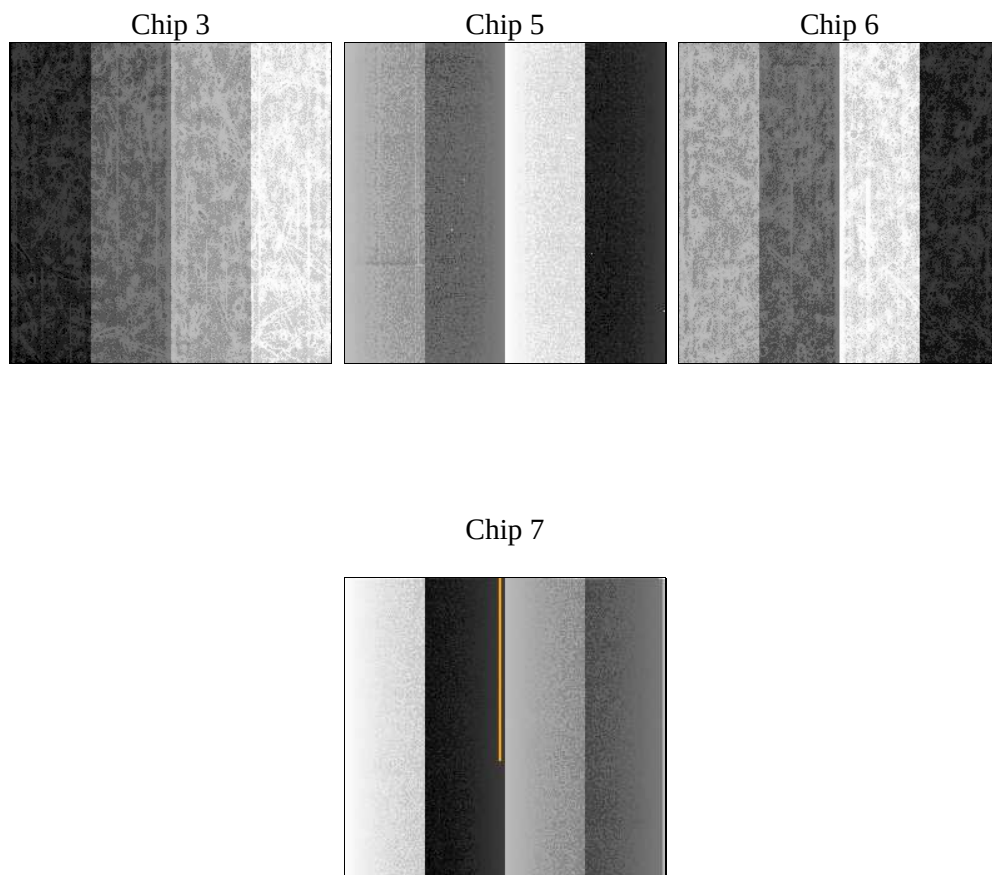
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	20065.714980125	Sum of GTIs [s]
caldbver	4.7.0	 	ontime3	20053.02758944	Sum of GTIs [s]
date	2016-01-30T05:52:41	Date and time of file creation	ontime5	20065.673940182	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	20056.209629297	Sum of GTIs [s]
			ontime7	20065.714980125	Sum of GTIs [s]
			l1events	646100	Number of level 1 events

2.1.4 Events

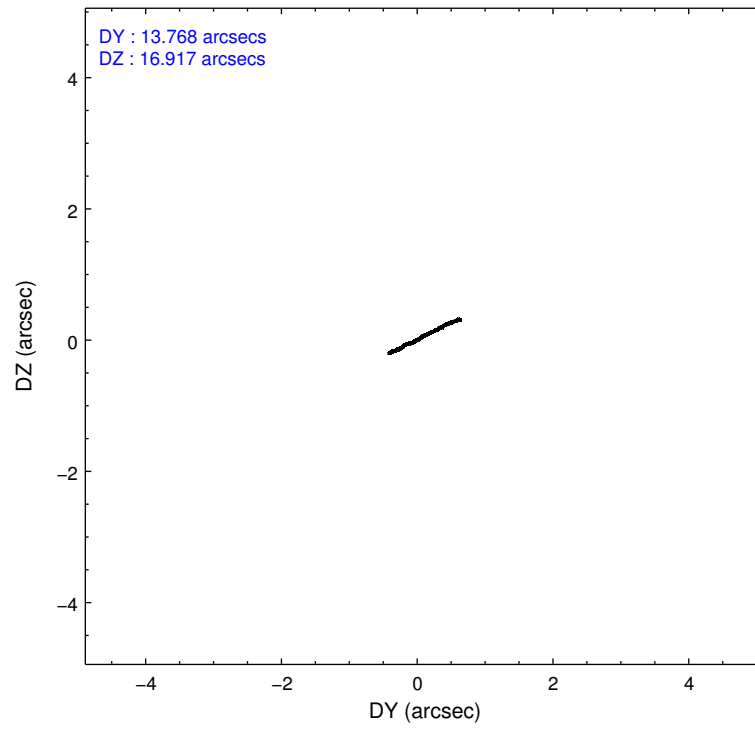
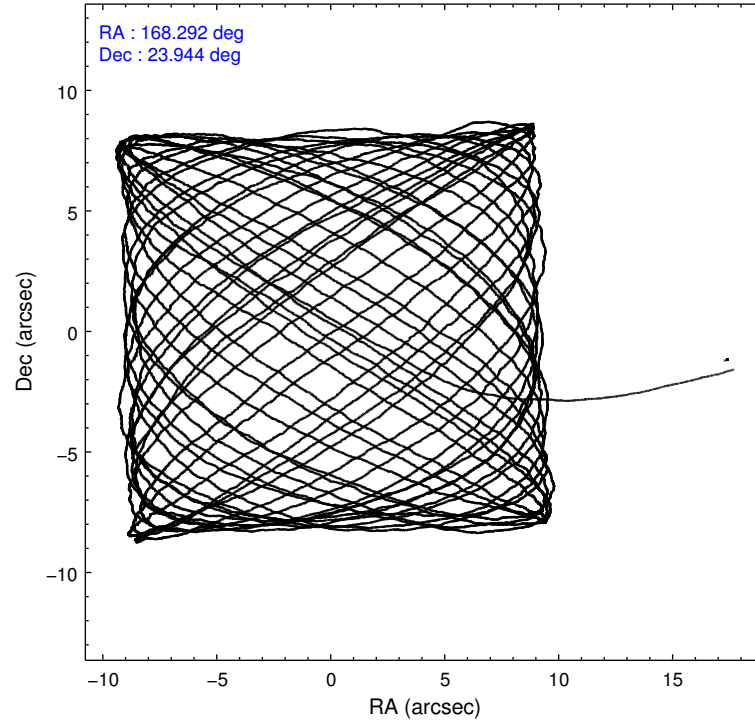
	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	121527	230479	130446	163648
rejected events	109252	105810	115819	93043
rejected %	89%	45%	88%	56%

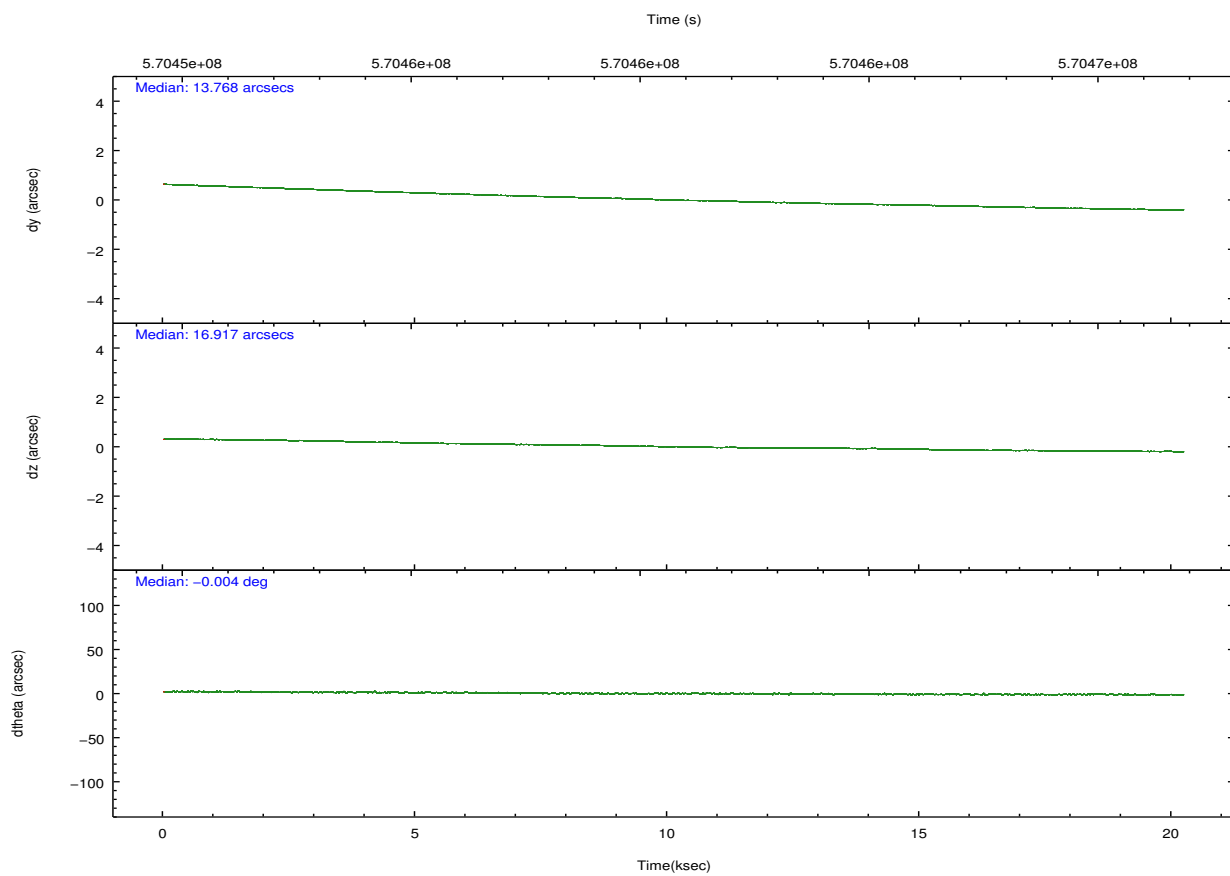
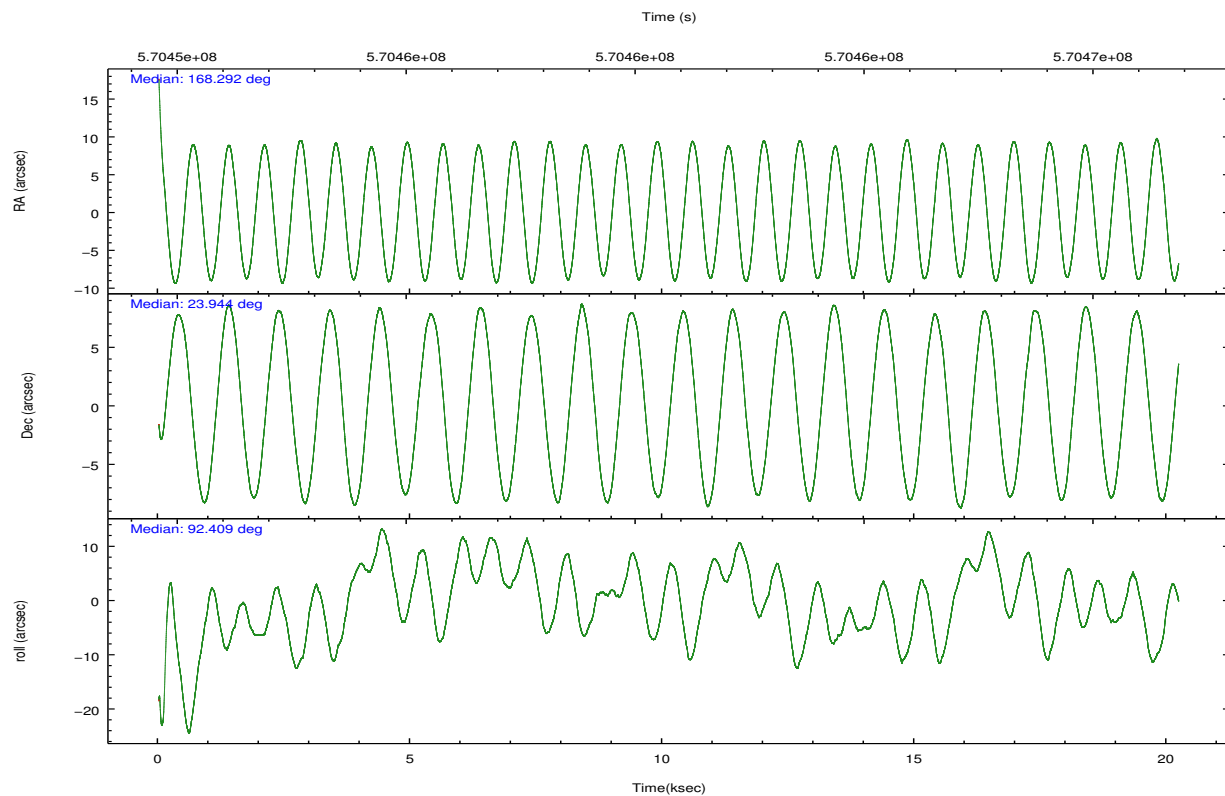
	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	4250	26617	4603	5933
	3%	11%	3%	3%
grade 1 events	59	988	42	180
	0%	0%	0%	0%
grade 2 events	2640	35402	3717	14886
	2%	15%	2%	9%
grade 3 events	1361	3633	1356	5463
	1%	1%	1%	3%
grade 4 events	1390	4164	1338	5258
	1%	1%	1%	3%
grade 5 events	5832	13809	5755	15314
	4%	5%	4%	9%
grade 6 events	2637	54883	3617	39081
	2%	23%	2%	23%
grade 7 events	103358	90983	110018	77533
	85%	39%	84%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3567	ACIS-3567	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	168.307978	168.2915329313639	CCD I2 on	N	N
[deg] Pointing Dec	23.921405	23.94436803406374	CCD I3 on	Y	Y
[deg] Pointing Roll	92.255201	92.41851187167005	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	N
[s] Observation start time (MET)	570450881.184000	570449982.45432	CCD S5 on	N	N
Observation start date	2016-01-29T10:33:33	2016-01-29T10:19:42	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	570470881.184000	570471694.00556	On-chip summing requested	N	N
Observation end date	2016-01-29T16:06:53	2016-01-29T16:21:34	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



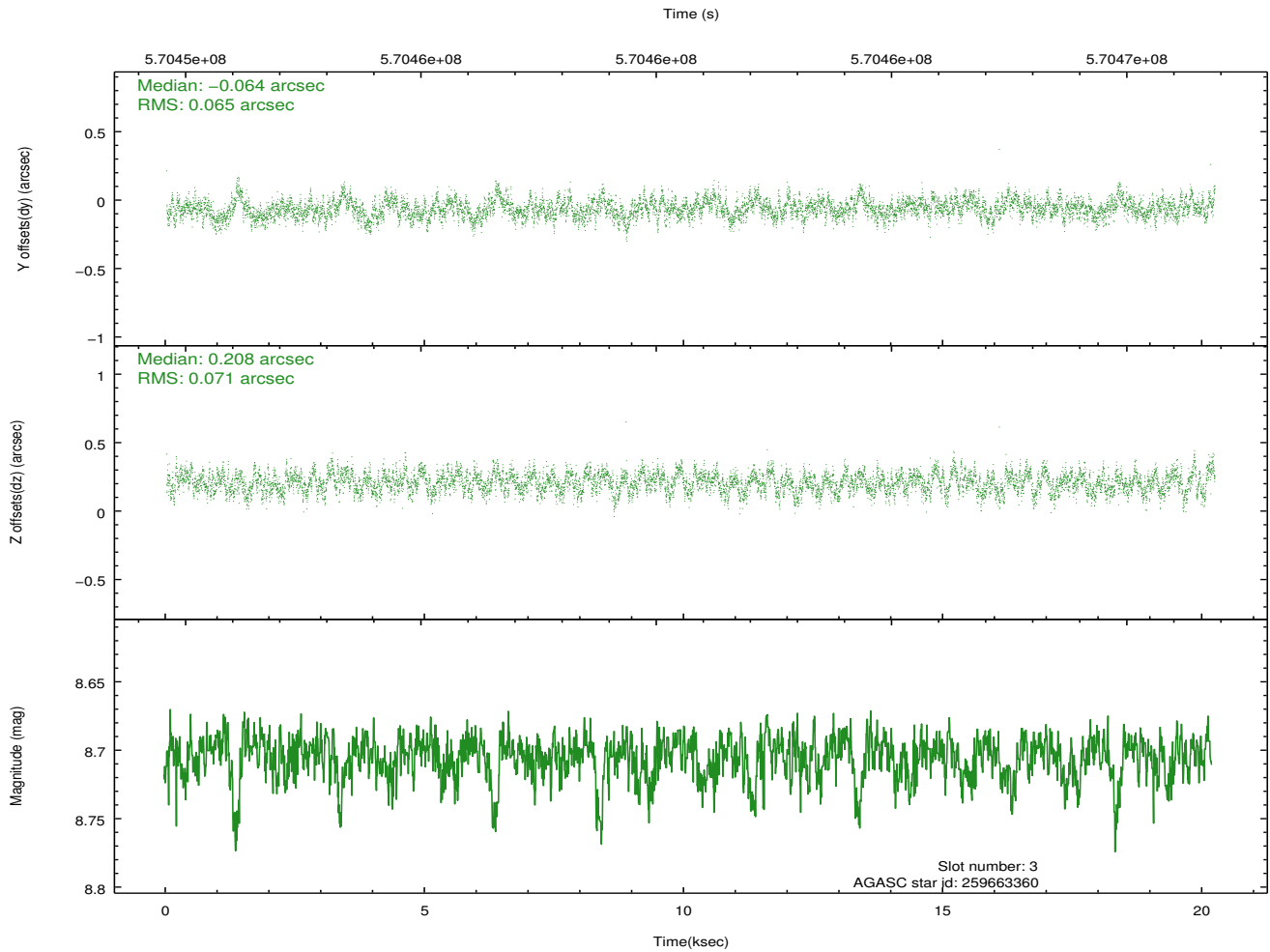
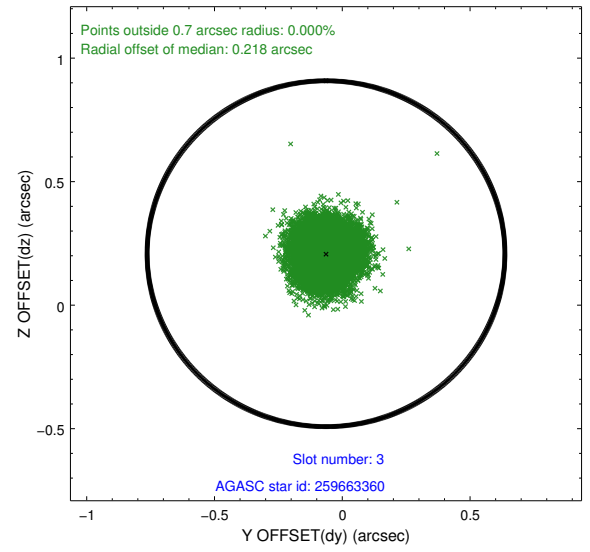
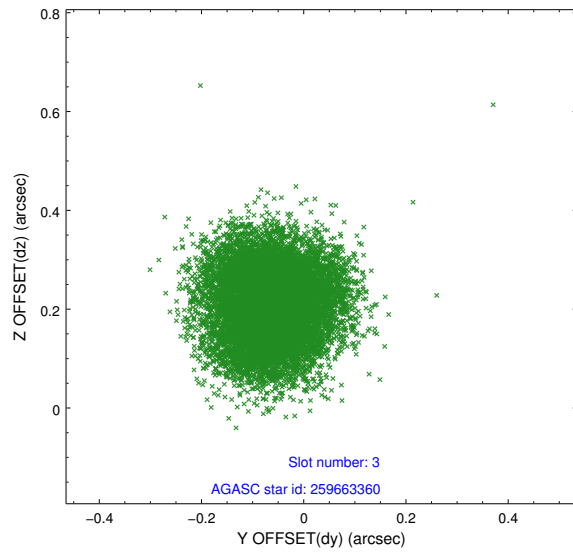


Slot Statistics

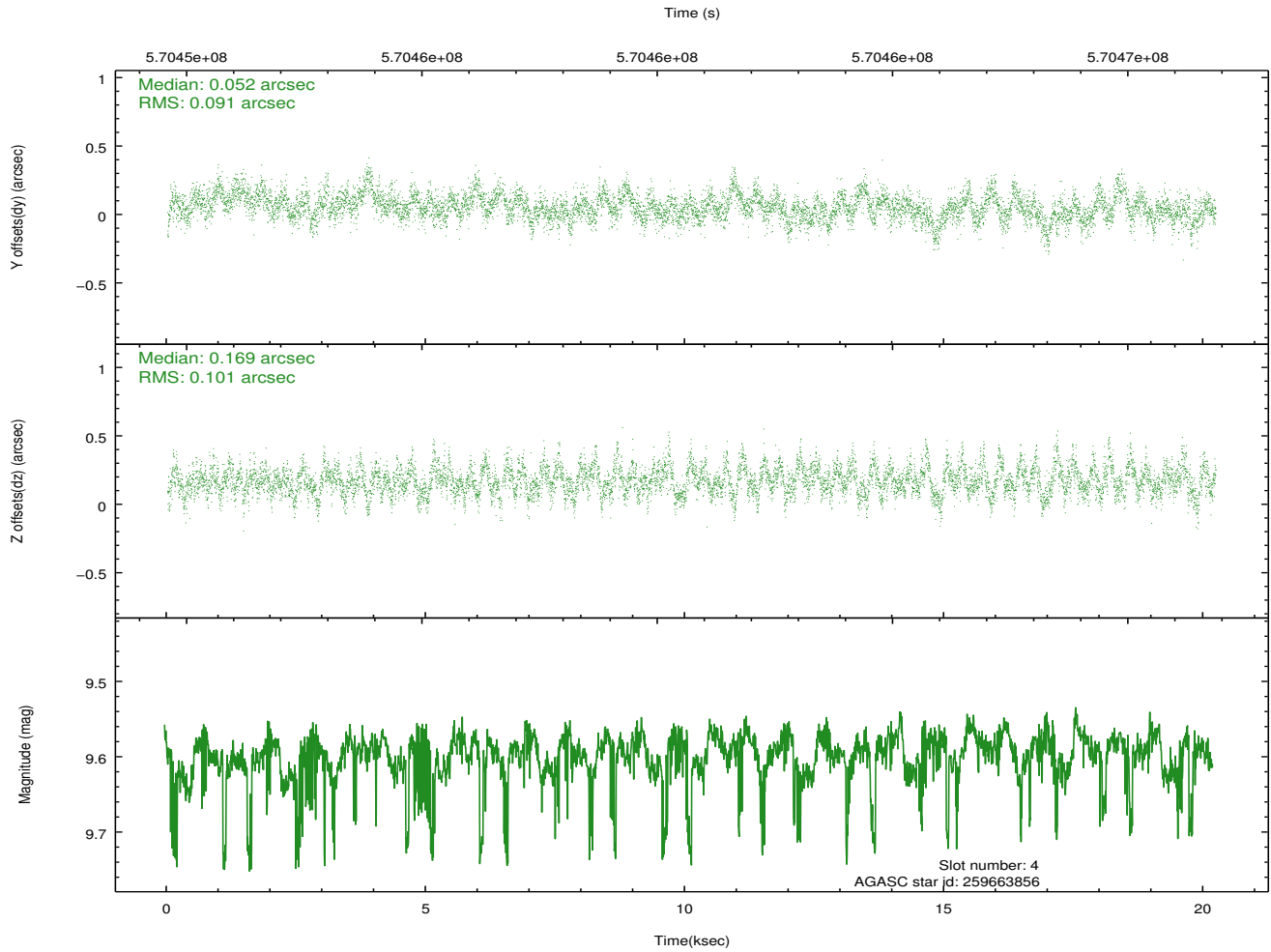
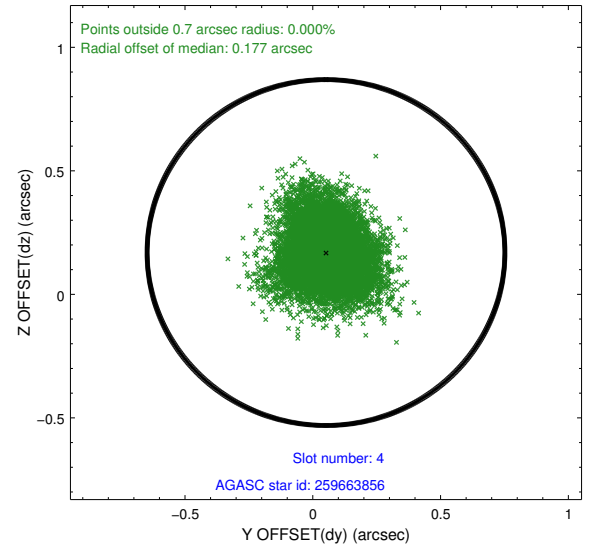
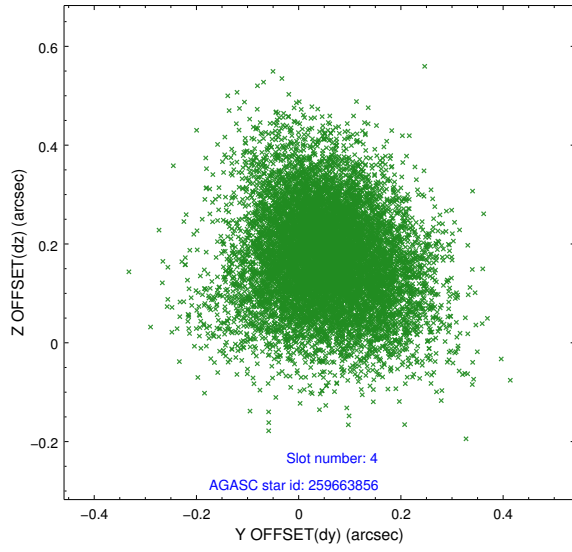
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.13	4933	-0.134	-0.100	0.016	0.025	0.000000	0.000000	-766.87	-1738.43
1	FID		ACIS-S-4	7.23	4934	0.414	0.091	0.014	0.023	0.000000	0.000000	2146.86	170.07
2	FID		ACIS-S-5	7.25	4934	-0.310	0.018	0.007	0.013	0.000000	0.000000	-1819.66	163.85
3	GUIDE	used	259663360	8.70	9859	-0.064	0.208	0.103	0.161	168.525368	23.842868	-309.78	-703.49
4	GUIDE	used	259663856	9.60	9809	0.052	0.169	0.142	0.243	168.165217	23.422046	-1776.04	544.96
5	GUIDE	used	259665560	9.46	9780	0.031	-0.270	0.178	0.277	167.729784	23.577054	-1159.85	1954.64
6	GUIDE	used	259666624	9.53	9855	-0.010	-0.065	0.196	0.330	168.068369	23.448103	-1670.62	858.45
7	GUIDE	used	259669304	9.28	9858	-0.001	-0.071	0.176	0.266	168.137594	23.503708	-1480.89	621.79

2.4 Star Slots

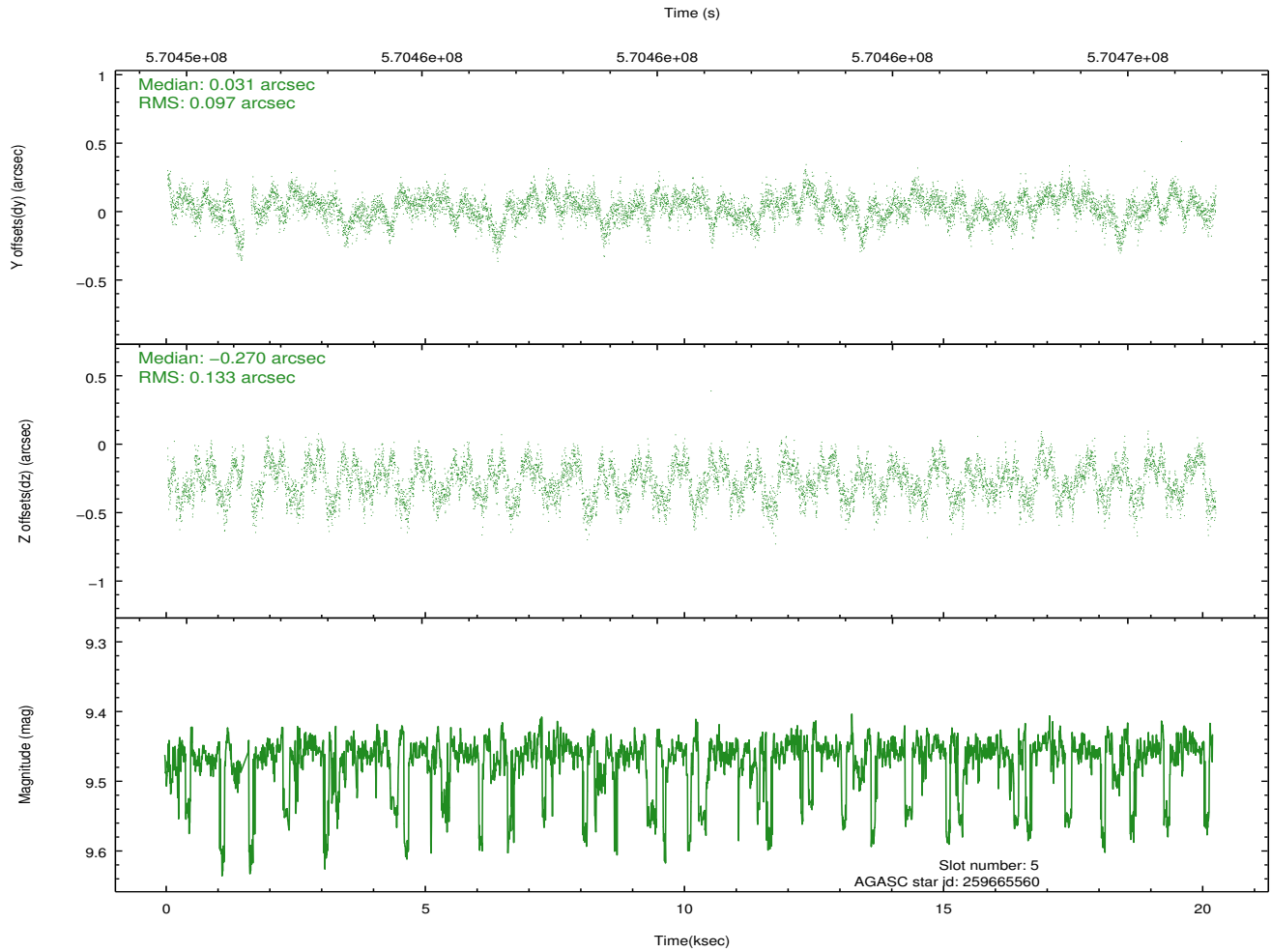
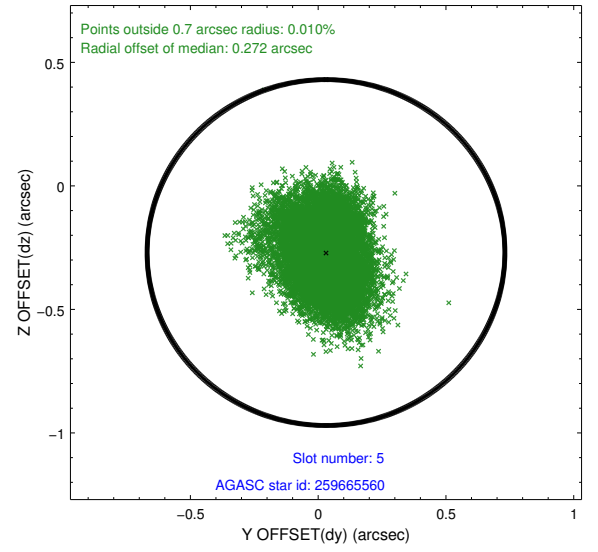
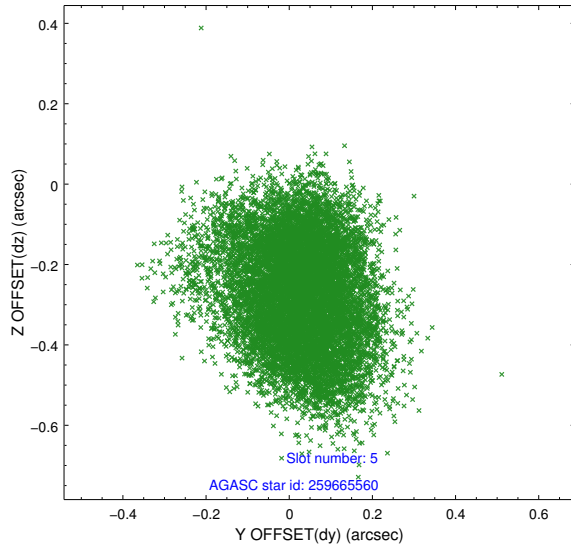
2.4.1 Slot 3



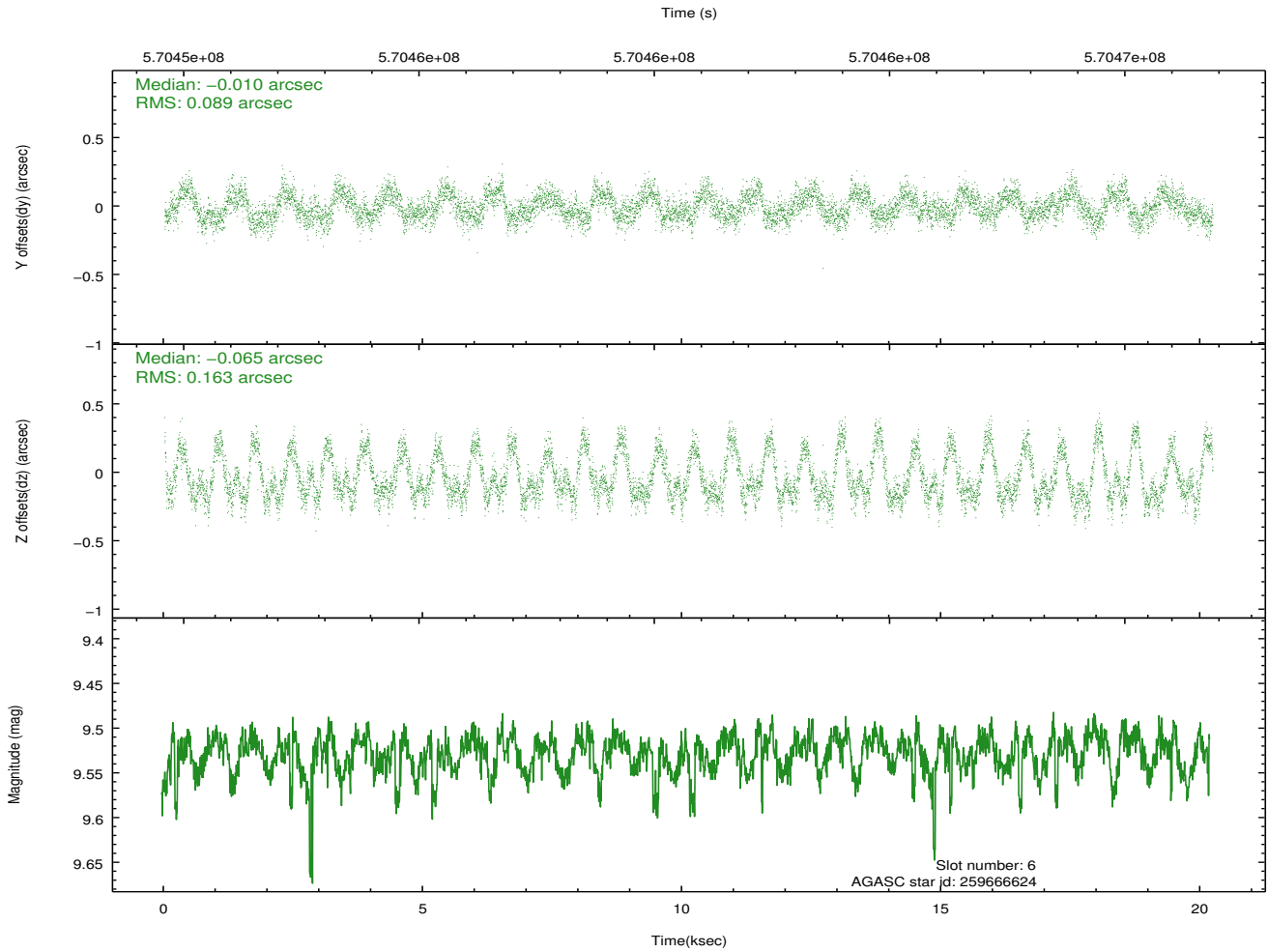
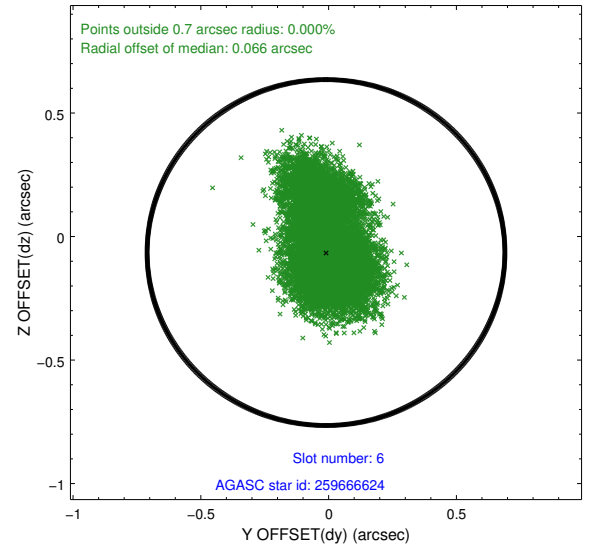
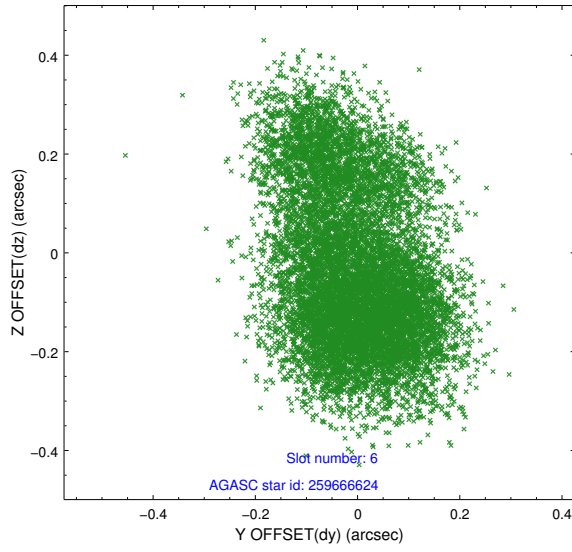
2.4.2 Slot 4



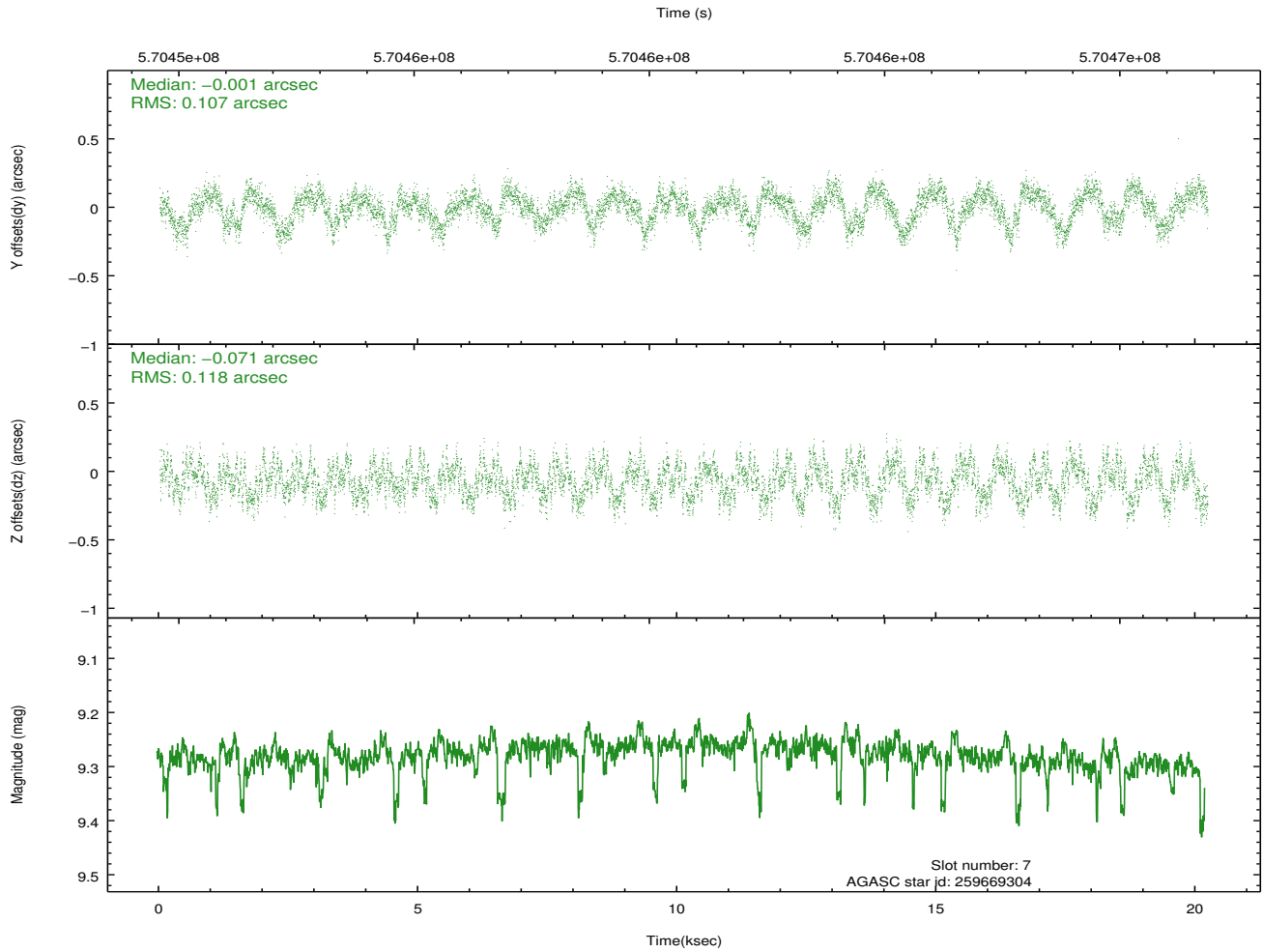
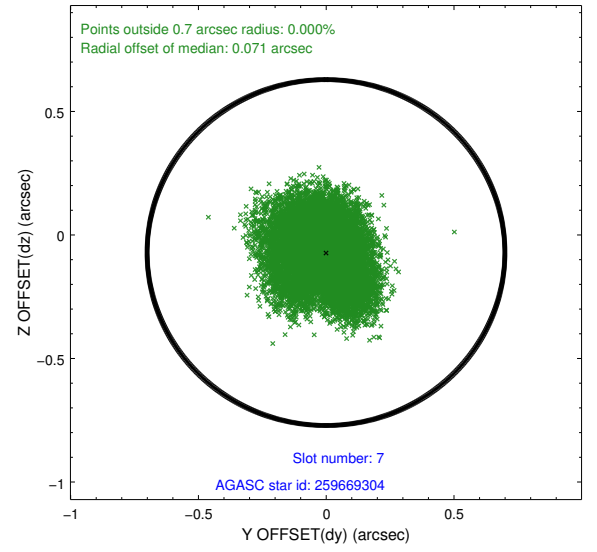
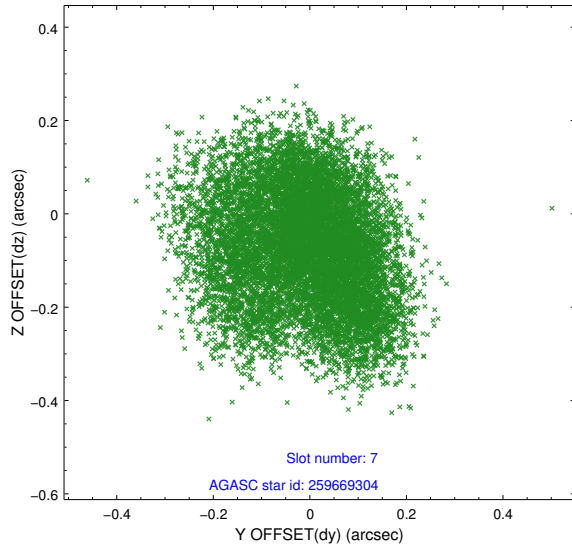
2.4.3 Slot 5



2.4.4 Slot 6

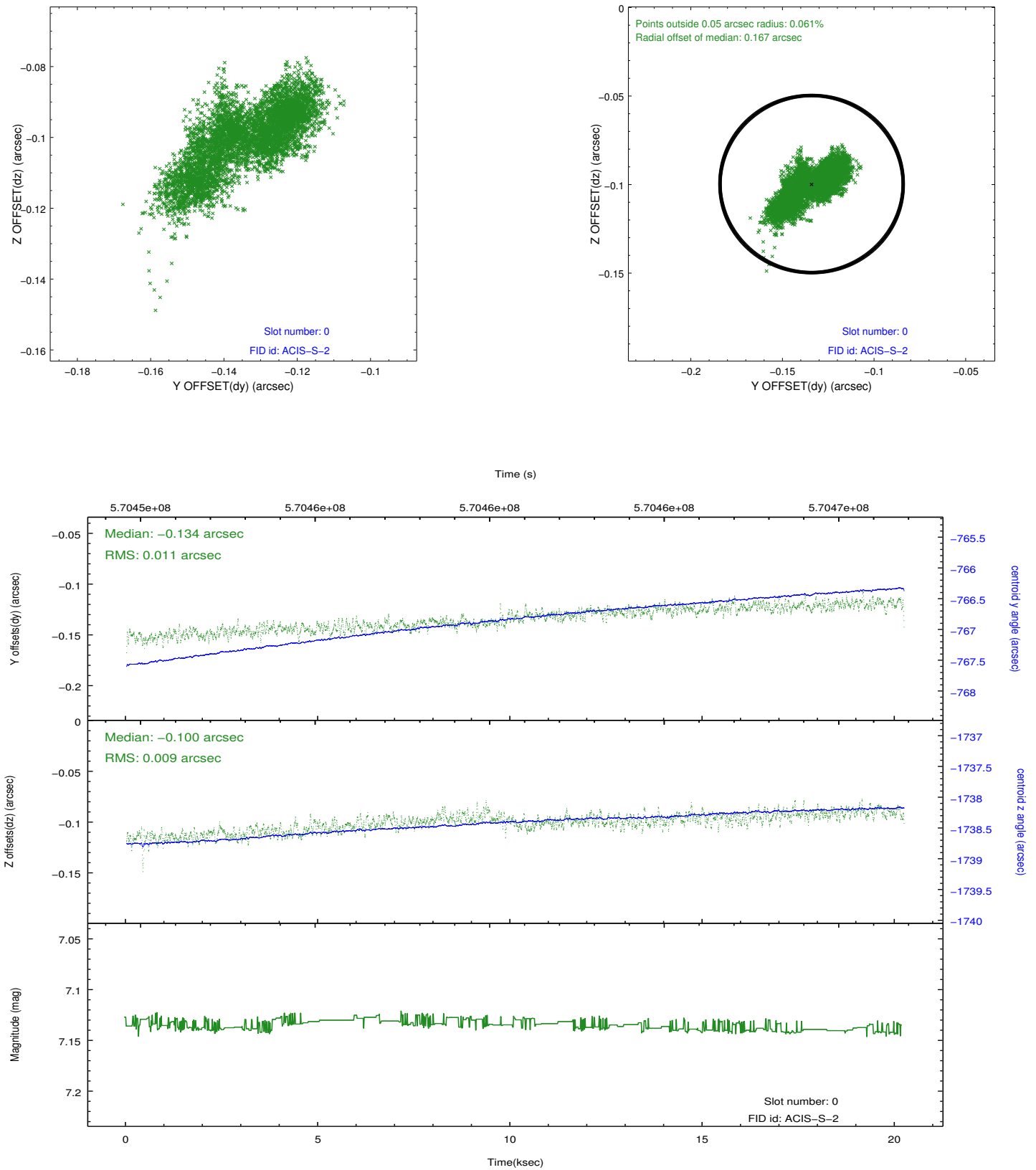


2.4.5 Slot 7

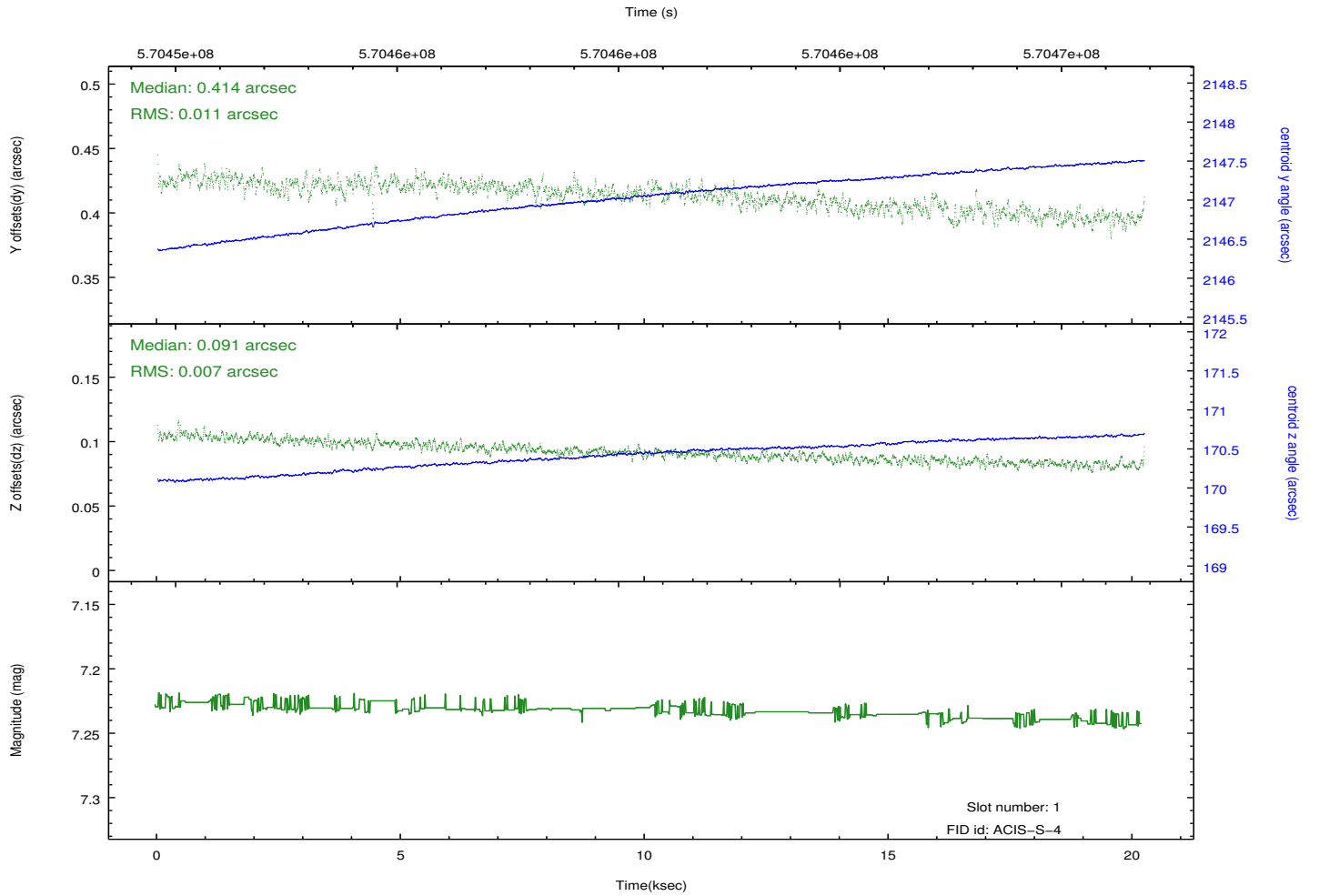
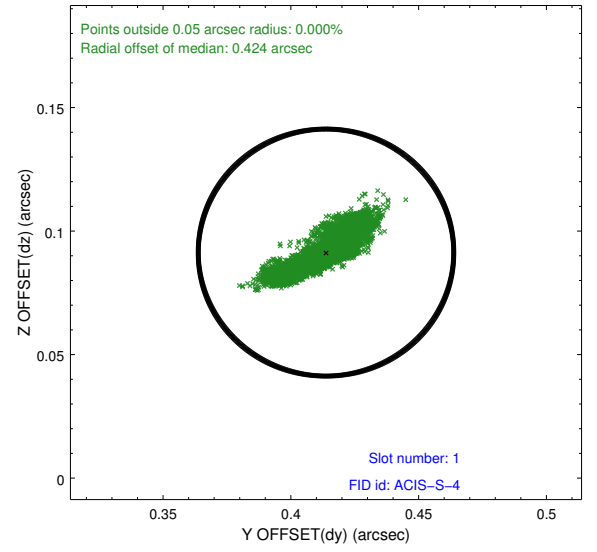
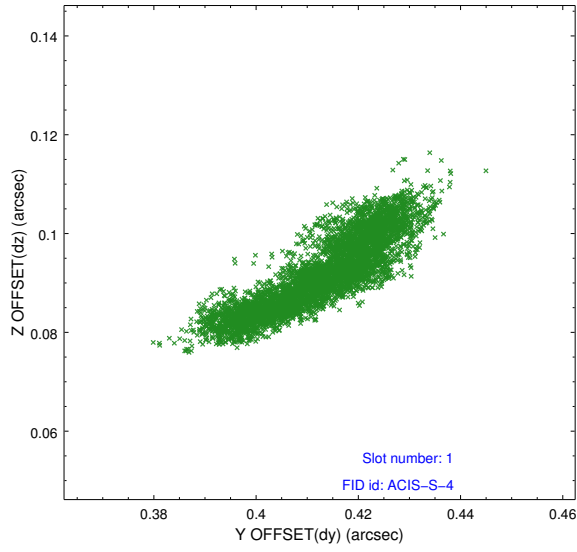


2.5 FID Slots

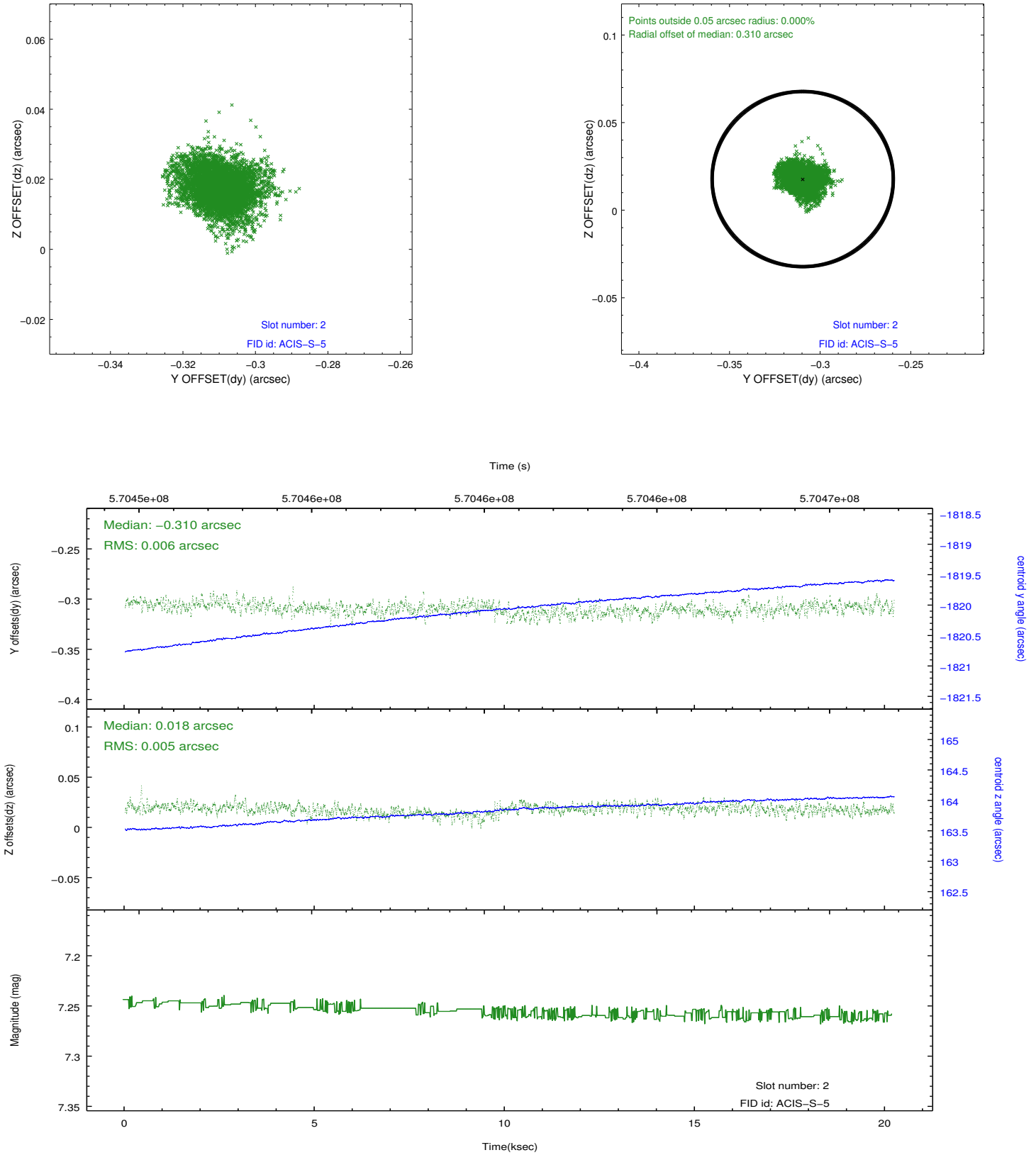
2.5.1 Slot 0



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)	2016.01.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.065714980125

A.2 Comments

Joint proposal with HST.
Optional chip S4 was dropped.