

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19462 - L2 Version 1
Chandra X-Ray Center

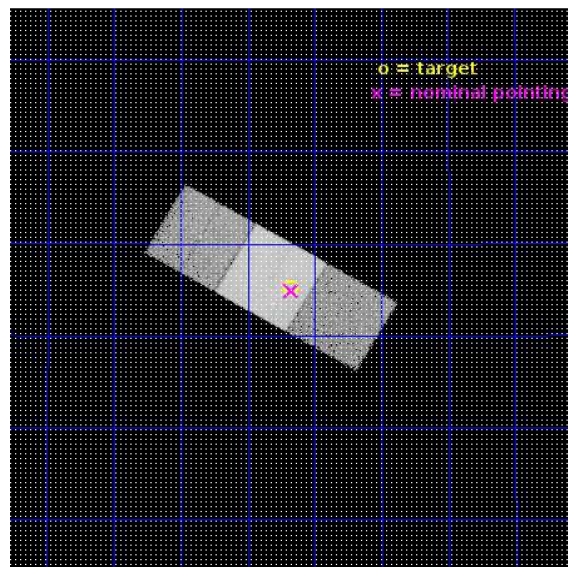
L2 Processing Date : Jun 28 2017

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1 Front

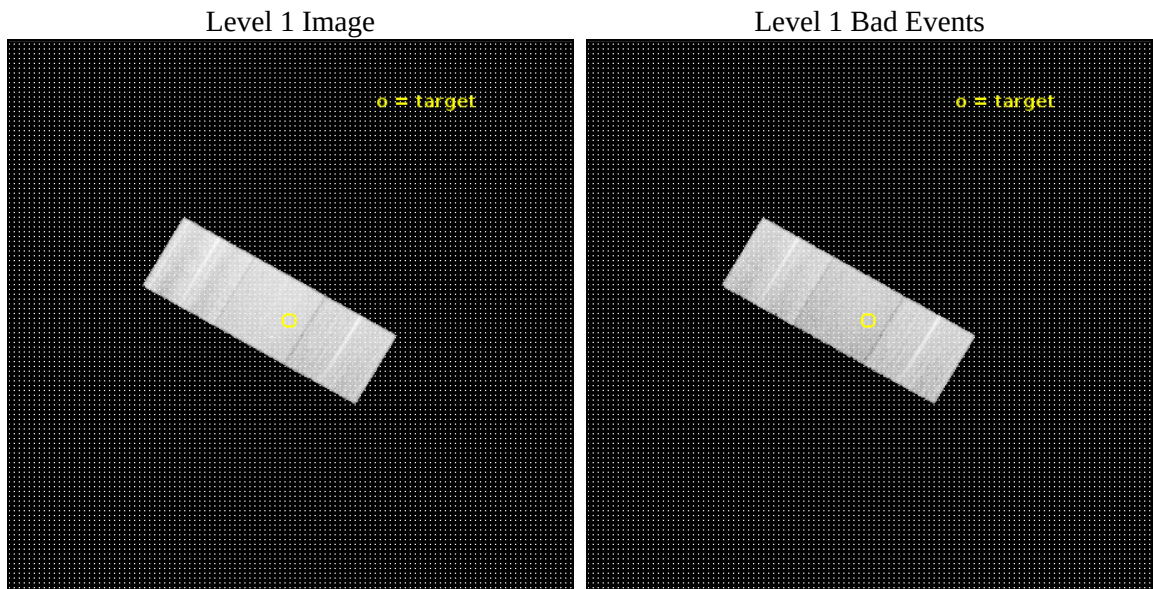
seq_num	703311	Sequence number
obs_id	19462	Observation id
title	Searching for intermediate-mass black holes in extremely-metal poor galaxies	Proposal title
observer	Mar Mezcua	Principal investigator
object	J164710.66+210514.5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	251.794583	Observer's specified target RA [deg]
dec_targ	21.087361	Observer's specified target Dec [deg]
ra_nom	251.79330487384	Nominal RA [deg]
dec_nom	21.081659339141	Nominal Dec [deg]
roll_nom	210.04166351424	Nominal Roll [deg]
revision	1	Processing version of data
ontime	23975.400184512	Sum of GTIs [s]
livetime	23662.143930669	Livetime [s]
ontime6	23975.400184512	Sum of GTIs [s]
ontime7	23975.400184512	Sum of GTIs [s]
ontime8	23975.400184512	Sum of GTIs [s]
l2events	129797	Number of level 2 events



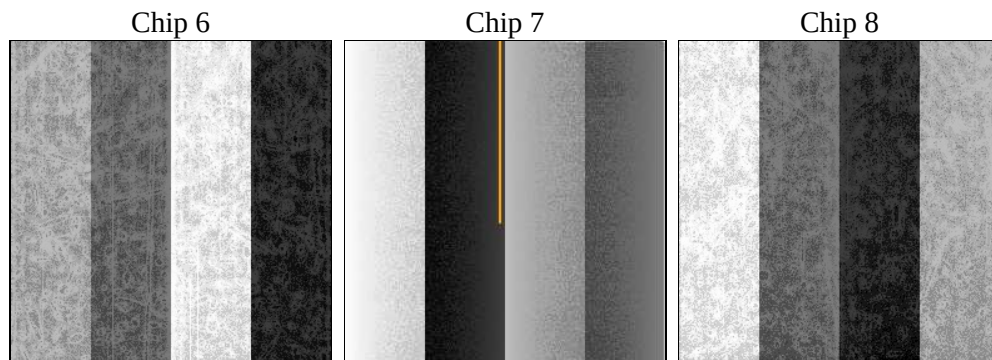
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23900.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	23975.400184512	Sum of GTIs [s]
caldsver	4.7.5	 	ontime6	23975.400184512	Sum of GTIs [s]
date	2017-06-28T04:47:01	Date and time of file creation	ontime7	23975.400184512	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	23975.400184512	Sum of GTIs [s]
			l1events	606076	Number of level 1 events

2.1.4 Events

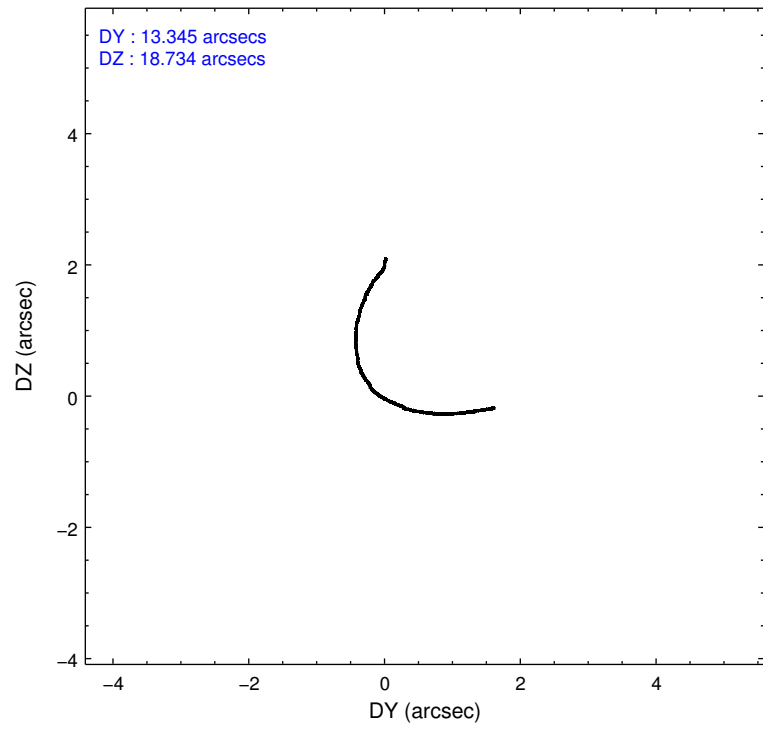
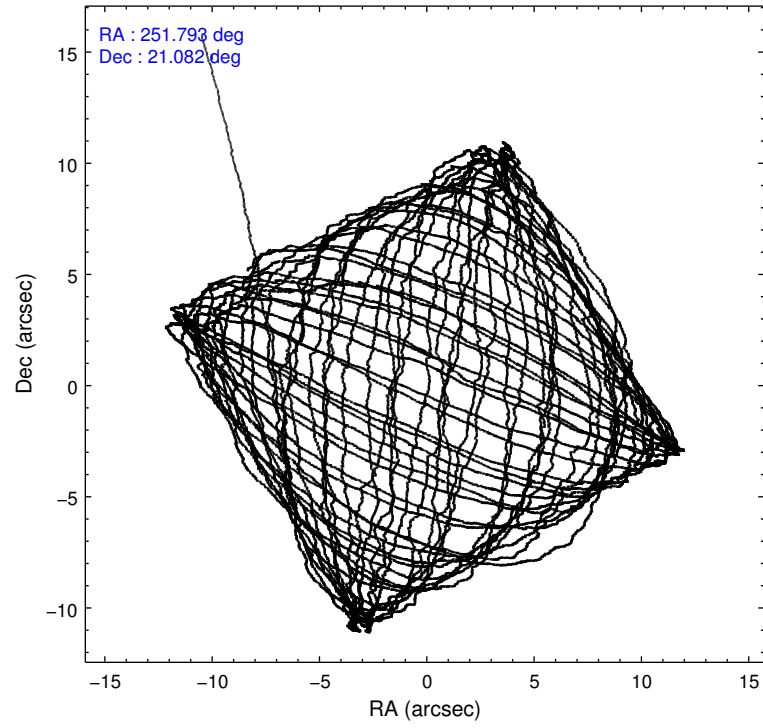
	ccd 6	ccd 7	ccd 8
level 1 events	168527	213667	223882
rejected events	149500	118808	162020
rejected %	88%	55%	72%

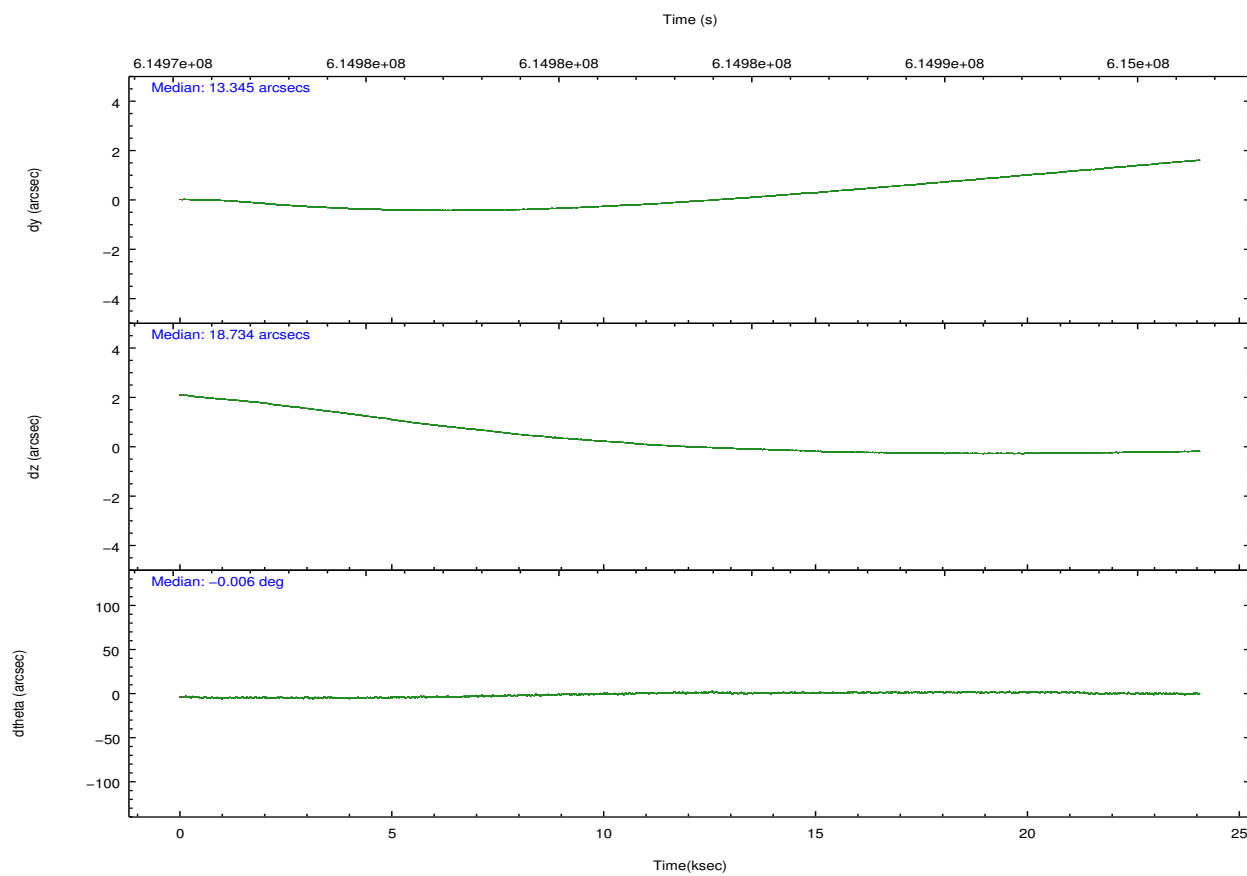
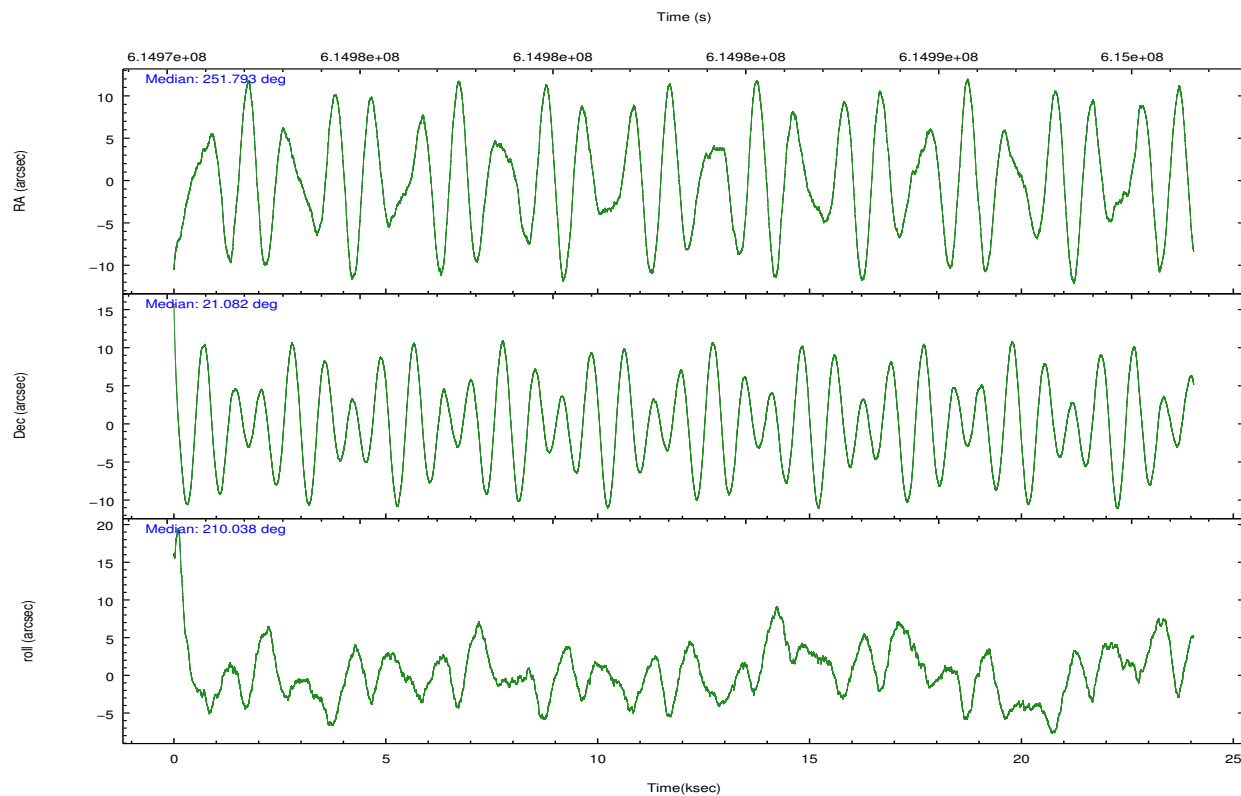
	ccd 6	ccd 7	ccd 8
grade 0 events	6303	8249	18114
	3%	3%	8%
grade 1 events	68	325	186
	0%	0%	0%
grade 2 events	4382	20241	14876
	2%	9%	6%
grade 3 events	1892	7932	6529
	1%	3%	2%
grade 4 events	1967	7773	6027
	1%	3%	2%
grade 5 events	8106	21949	12235
	4%	10%	5%
grade 6 events	4484	50689	16359
	2%	23%	7%
grade 7 events	141325	96509	149556
	83%	45%	66%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	251.807658	251.7933048738357	CCD I2 on	N	N
[deg] Pointing Dec	21.105621	21.08165933914079	CCD I3 on	N	N
[deg] Pointing Roll	209.879870	210.0416635142432	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	Y
[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	O2	Y
[s] Observation start time (MET)	614971535.184000	614970389.9922301	CCD S5 on	N	N
Observation start date	2017-06-27T17:24:26	2017-06-27T17:06:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	614995435.184000	614996272.2687401	On-chip summing requested	N	N
Observation end date	2017-06-28T00:02:46	2017-06-28T00:17:52	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



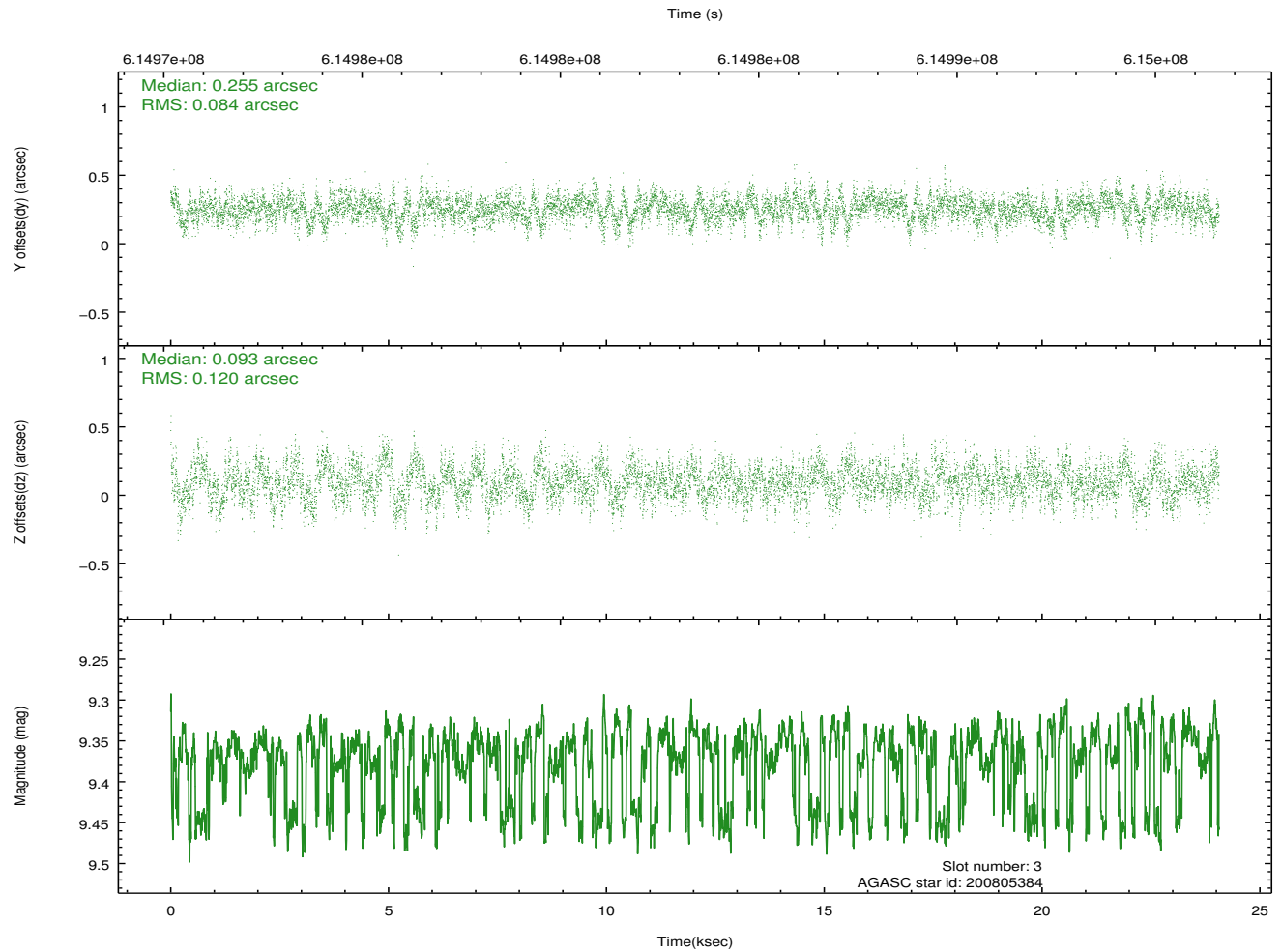
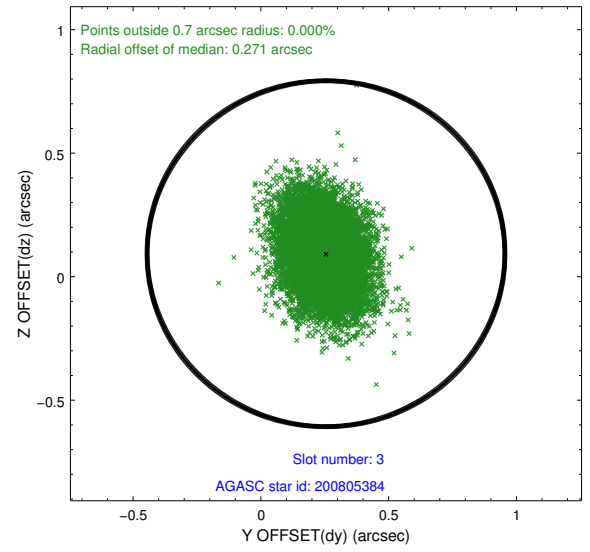
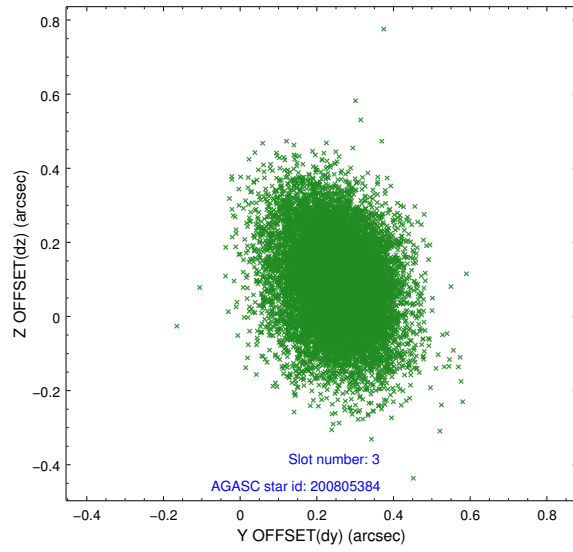


Slot Statistics

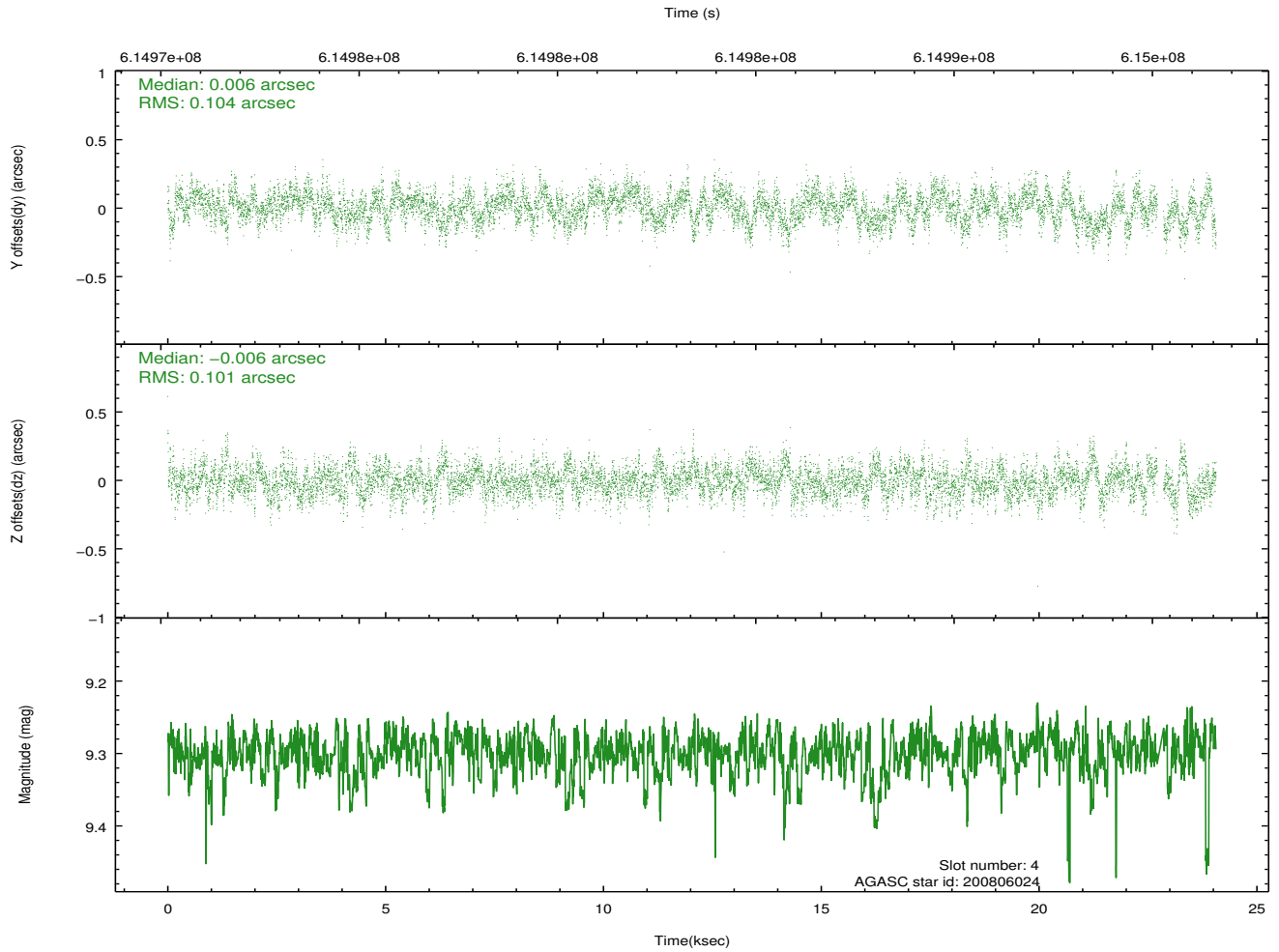
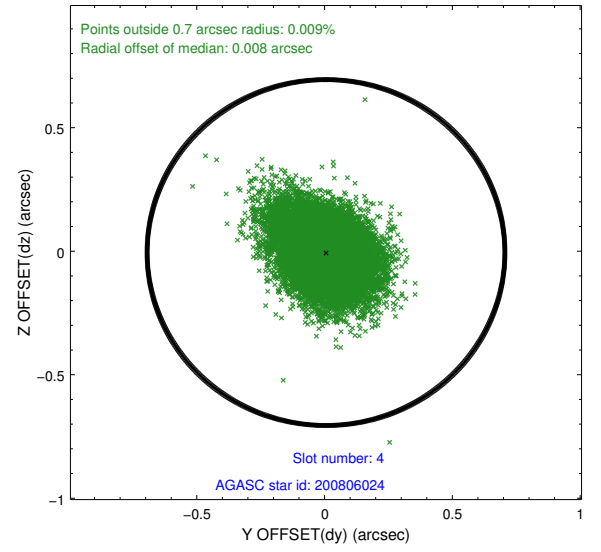
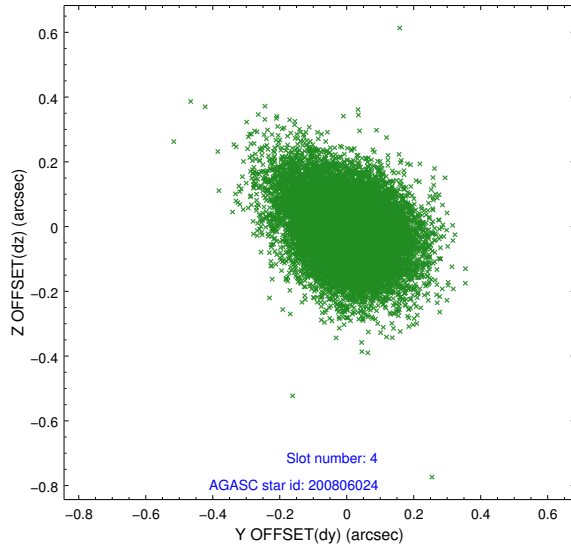
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.05	5869	0.334	0.027	0.023	0.030	0.000000	0.000000	2147.16	168.14
1	FID		ACIS-S-5	7.06	5869	-0.386	0.013	0.022	0.029	0.000000	0.000000	-1819.58	161.51
2	FID		ACIS-S-6	7.19	5870	0.026	-0.027	0.013	0.039	0.000000	0.000000	394.96	805.28
3	GUIDE	used	200805384	9.37	11720	0.255	0.093	0.153	0.258	251.804935	21.675495	-1012.69	-1783.23
4	GUIDE	used	200806024	9.30	11662	0.006	-0.006	0.154	0.253	251.259296	20.892102	1982.47	-251.97
5	GUIDE	used	200809144	9.21	11728	-0.070	-0.066	0.152	0.266	251.389932	21.370825	738.30	-1526.52
6	GUIDE	used	200814864	8.99	11730	-0.319	-0.253	0.177	0.284	251.700857	20.850982	769.62	615.36
7	GUIDE	used	200940728	8.00	11736	0.131	0.224	0.128	0.210	252.036452	21.990170	-2247.99	-2380.80

2.4 Star Slots

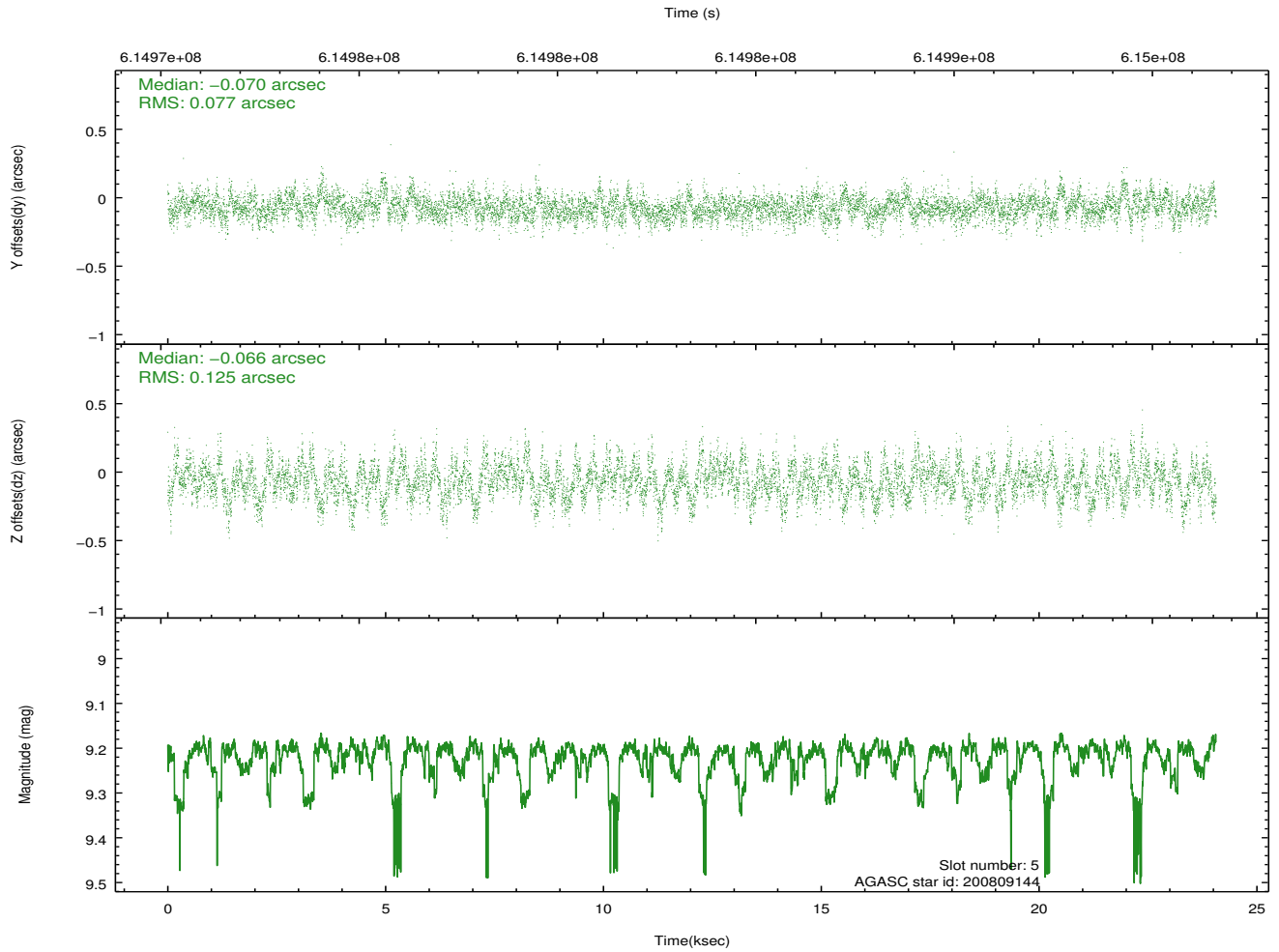
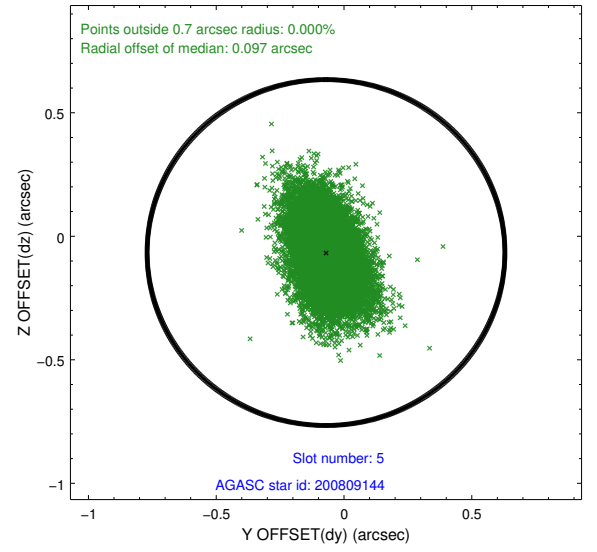
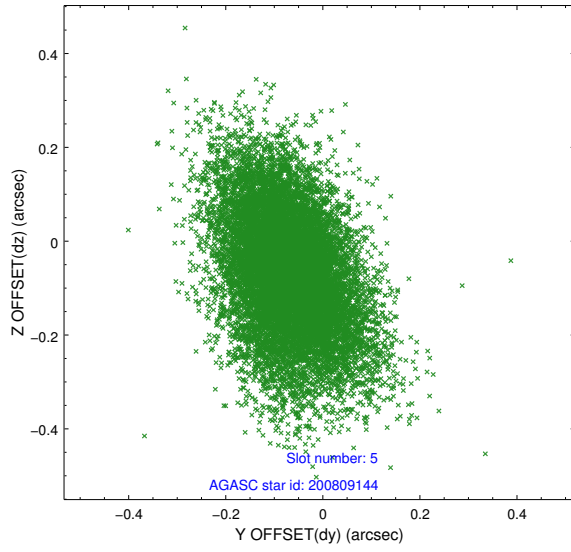
2.4.1 Slot 3



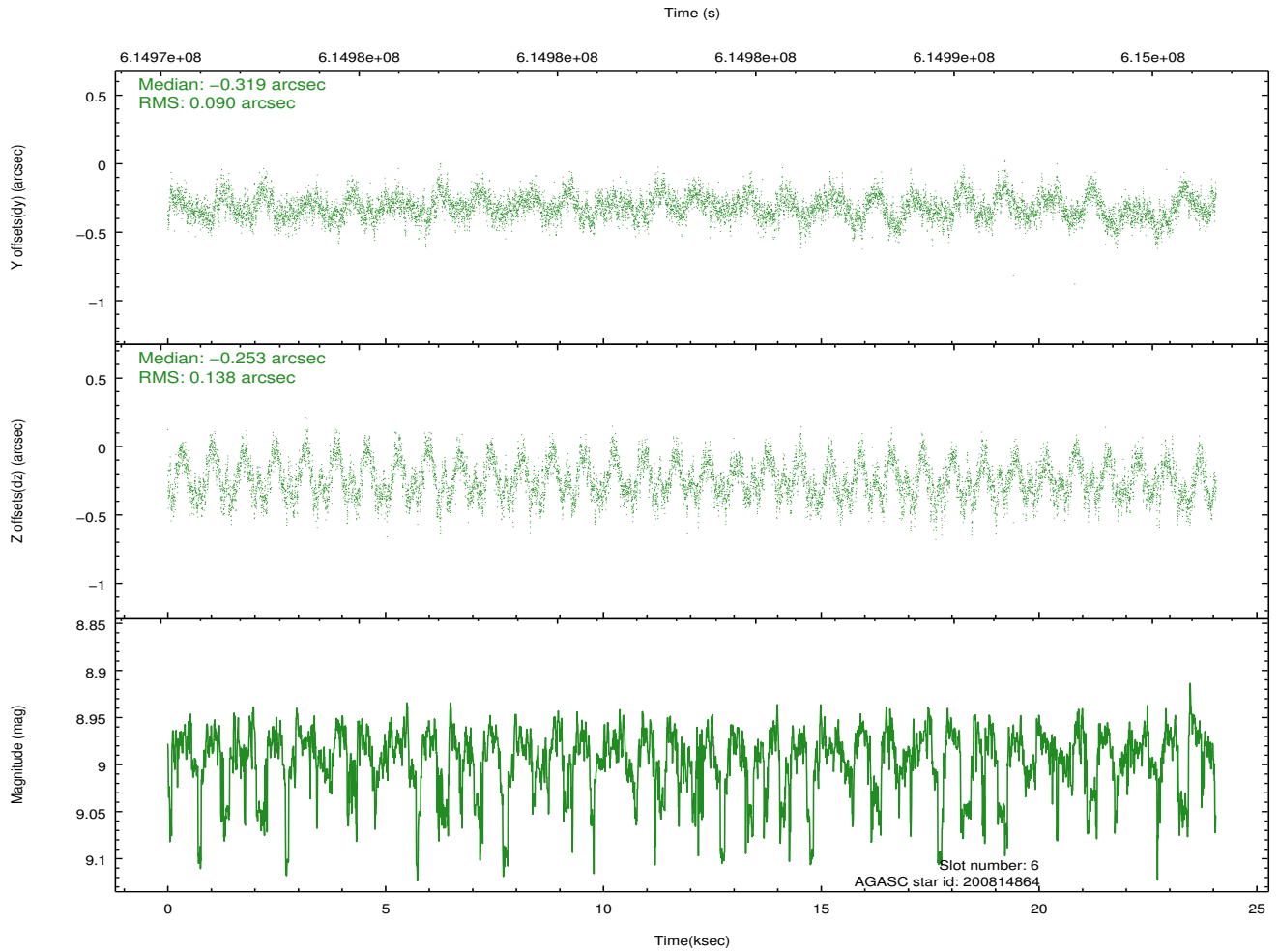
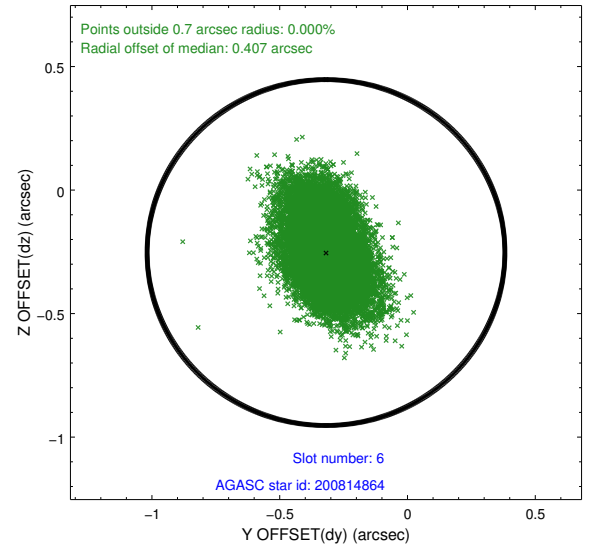
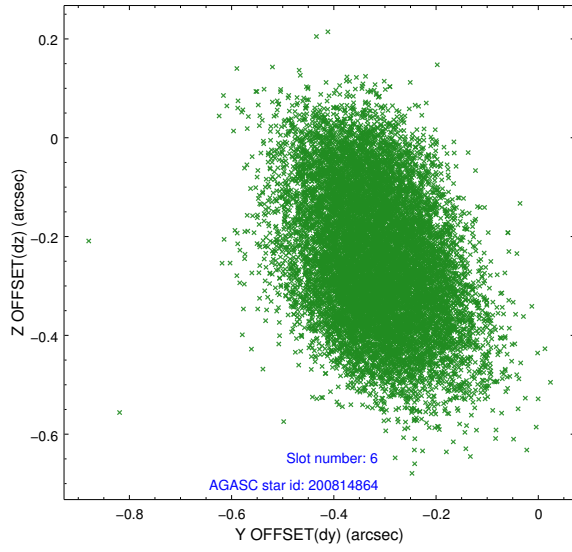
2.4.2 Slot 4



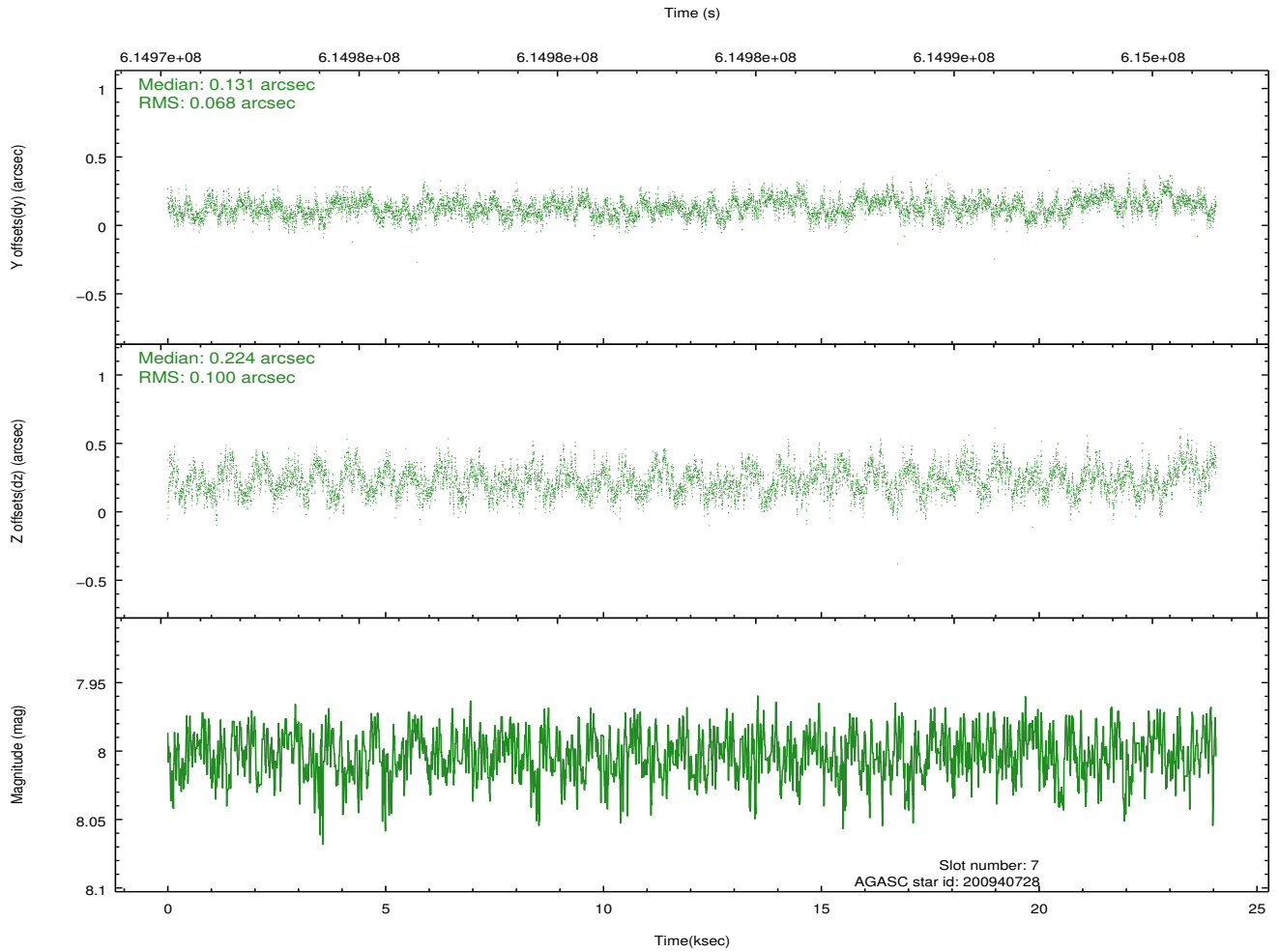
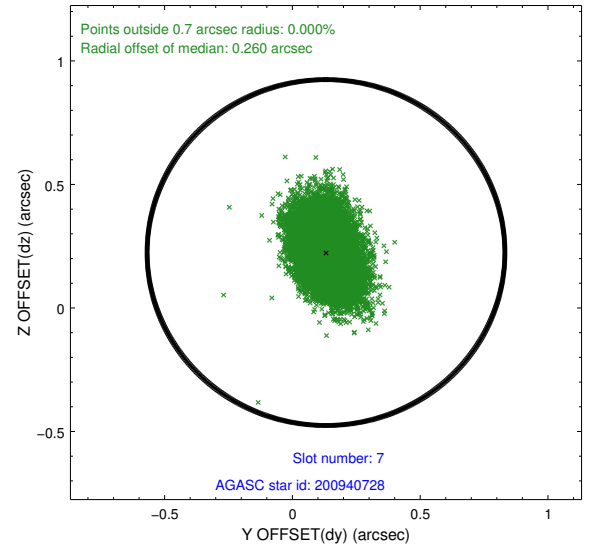
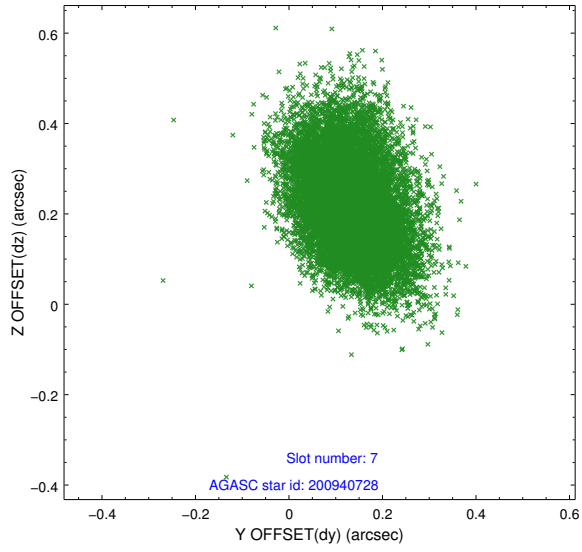
2.4.3 Slot 5



2.4.4 Slot 6

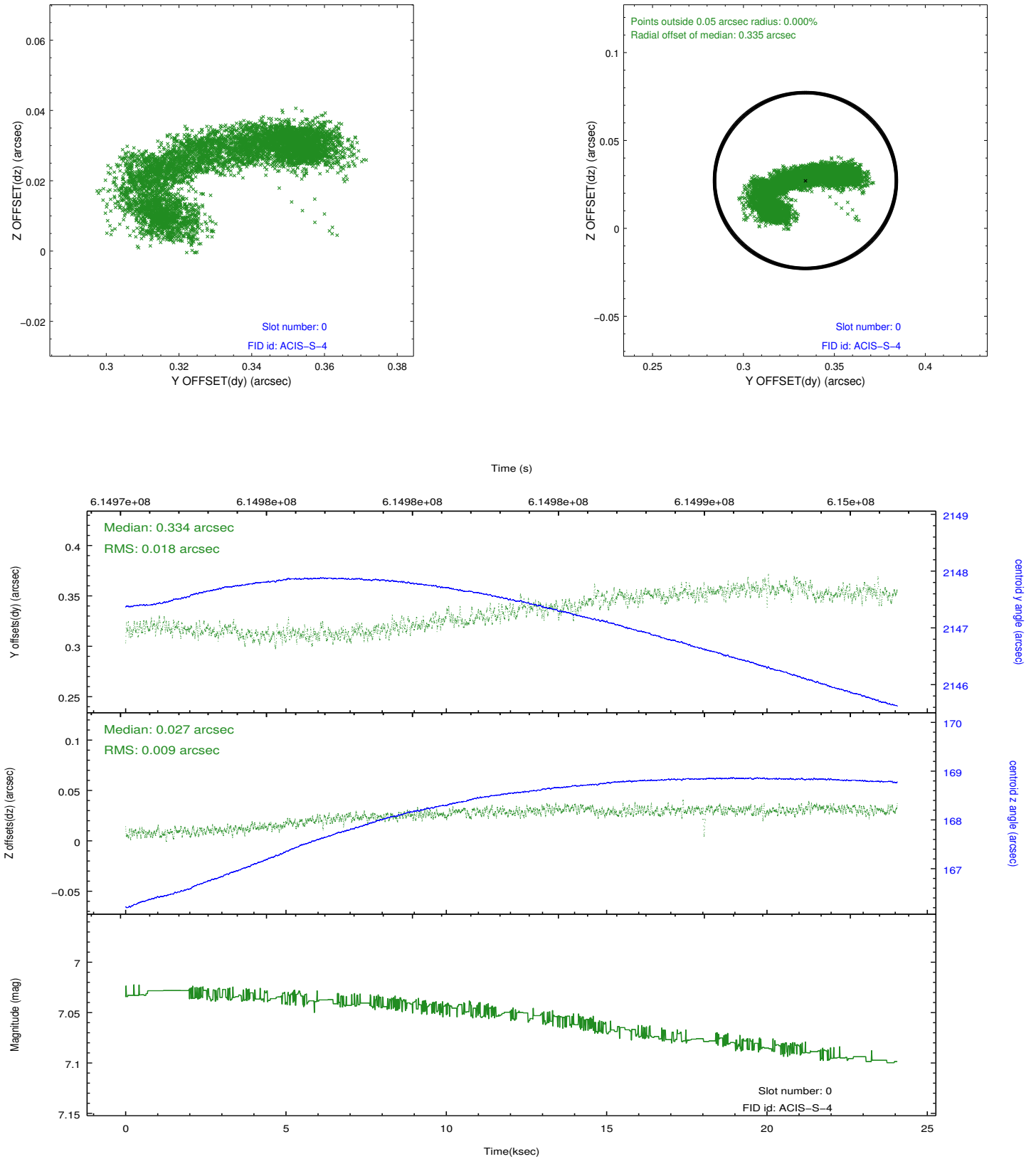


2.4.5 Slot 7

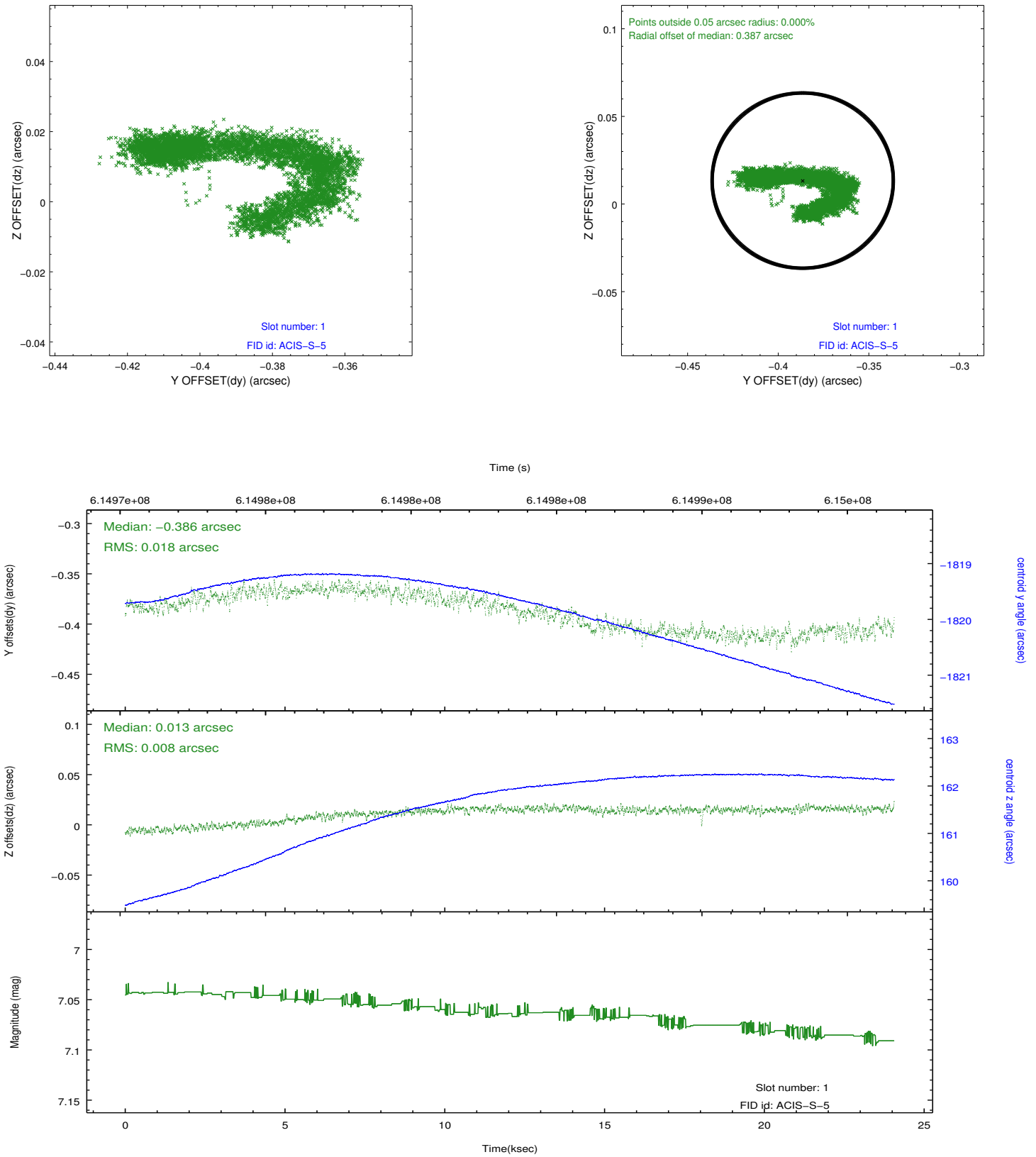


2.5 FID Slots

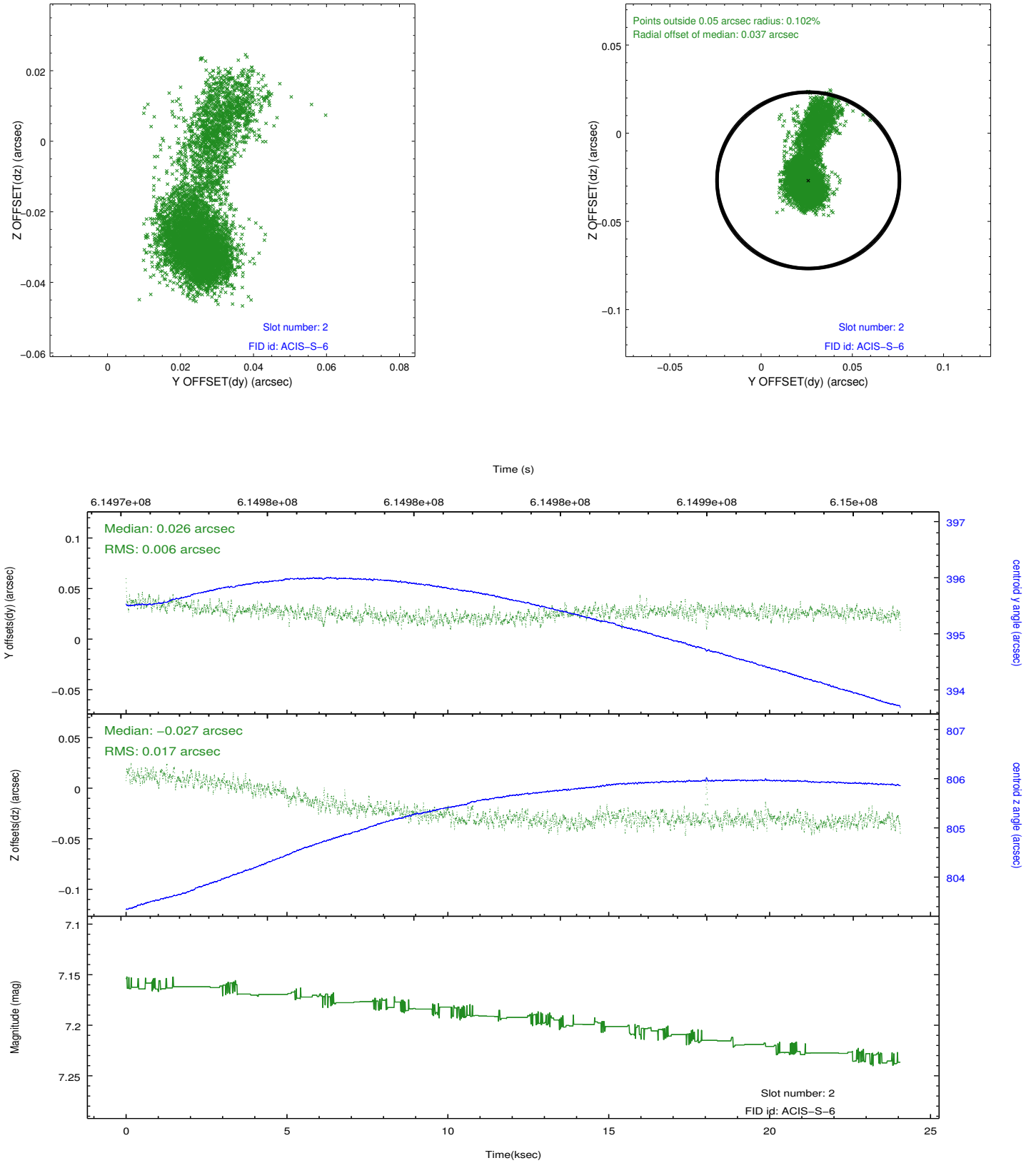
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2017.06.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.975400184512

A.2 Comments