

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22066 - L2 Version 1
Chandra X-Ray Center

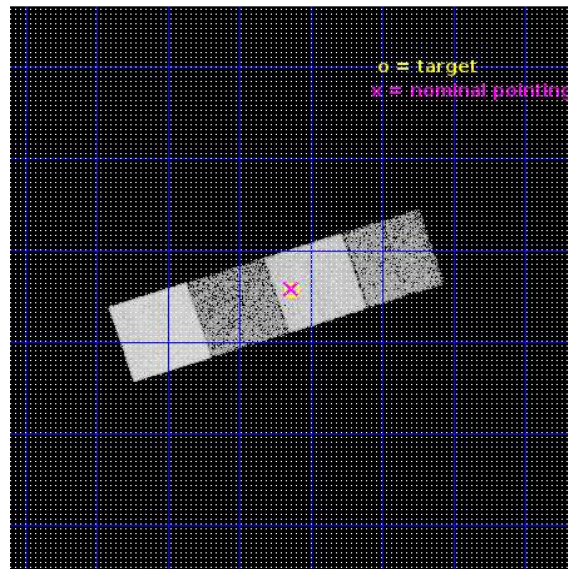
L2 Processing Date : Feb 2 2019

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1 Front

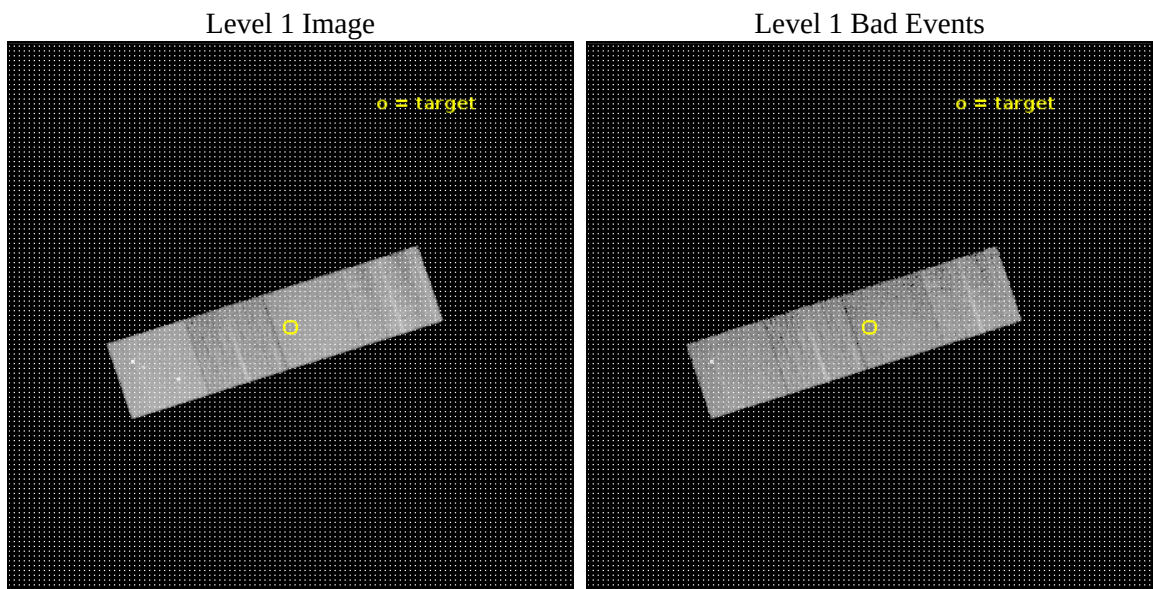
seq_num	703855	Sequence number
obs_id	22066	Observation id
title	Calibration of the quasar Hubble diagram with z	Proposal title
observer	Francesca Civano	Principal investigator
object	SDSSJ084437.69+051538.8	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	131.157043	Observer's specified target RA [deg]
dec_targ	5.260785	Observer's specified target Dec [deg]
ra_nom	131.15918600897	Nominal RA [deg]
dec_nom	5.2635253221365	Nominal Dec [deg]
roll_nom	341.77775278192	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10062.300326586	Sum of GTIs [s]
livetime	9930.8289650612	Livetime [s]
ontime5	10062.259286642	Sum of GTIs [s]
ontime6	10059.077256322	Sum of GTIs [s]
ontime7	10062.300326586	Sum of GTIs [s]
ontime8	10059.03619647	Sum of GTIs [s]
l2events	113762	Number of level 2 events



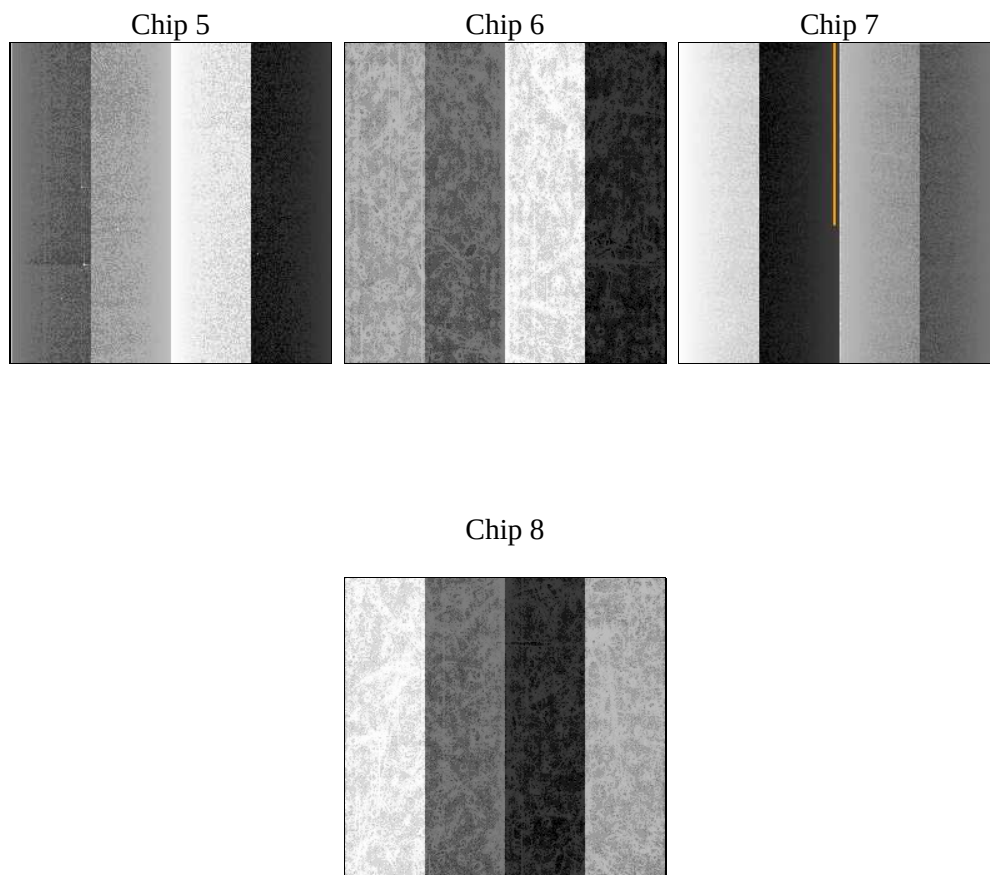
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	10062.300326586	Sum of GTIs [s]
caldsver	4.8.2	 	ontime5	10062.259286642	Sum of GTIs [s]
date	2019-02-02T14:25:32	Date and time of file creation	ontime6	10059.077256322	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	10062.300326586	Sum of GTIs [s]
			ontime8	10059.03619647	Sum of GTIs [s]
			l1events	395398	Number of level 1 events

2.1.4 Events

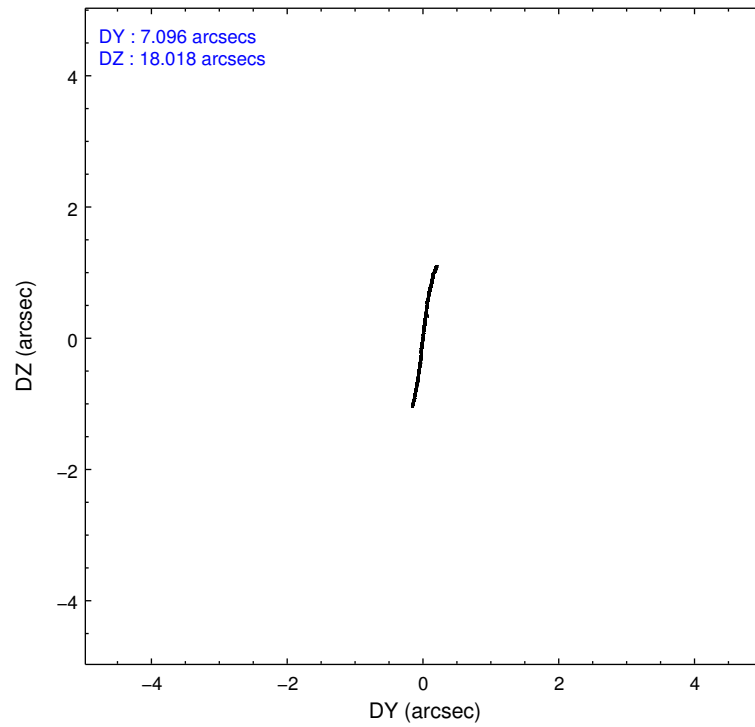
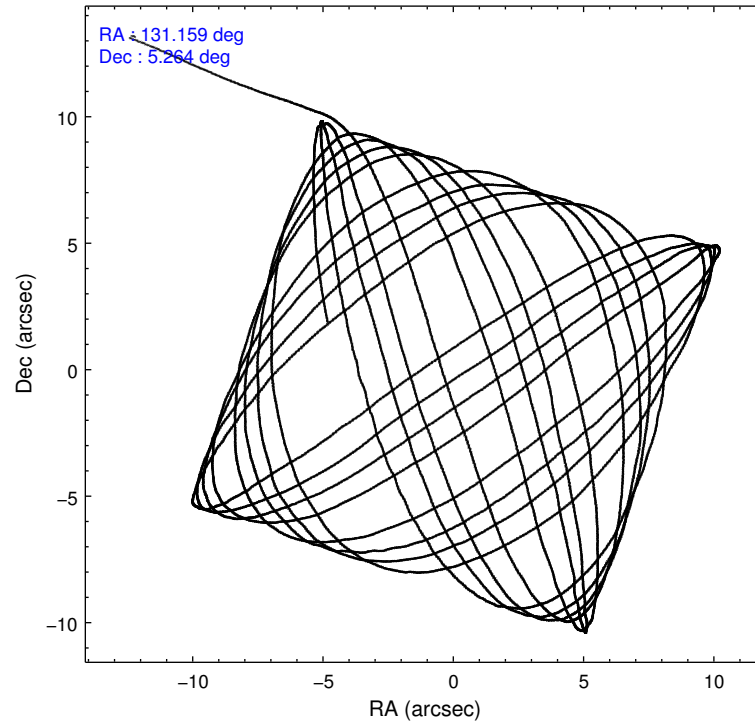
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	125968	74815	96228	98387
rejected events	64890	66030	54093	70771
rejected %	51%	88%	56%	71%

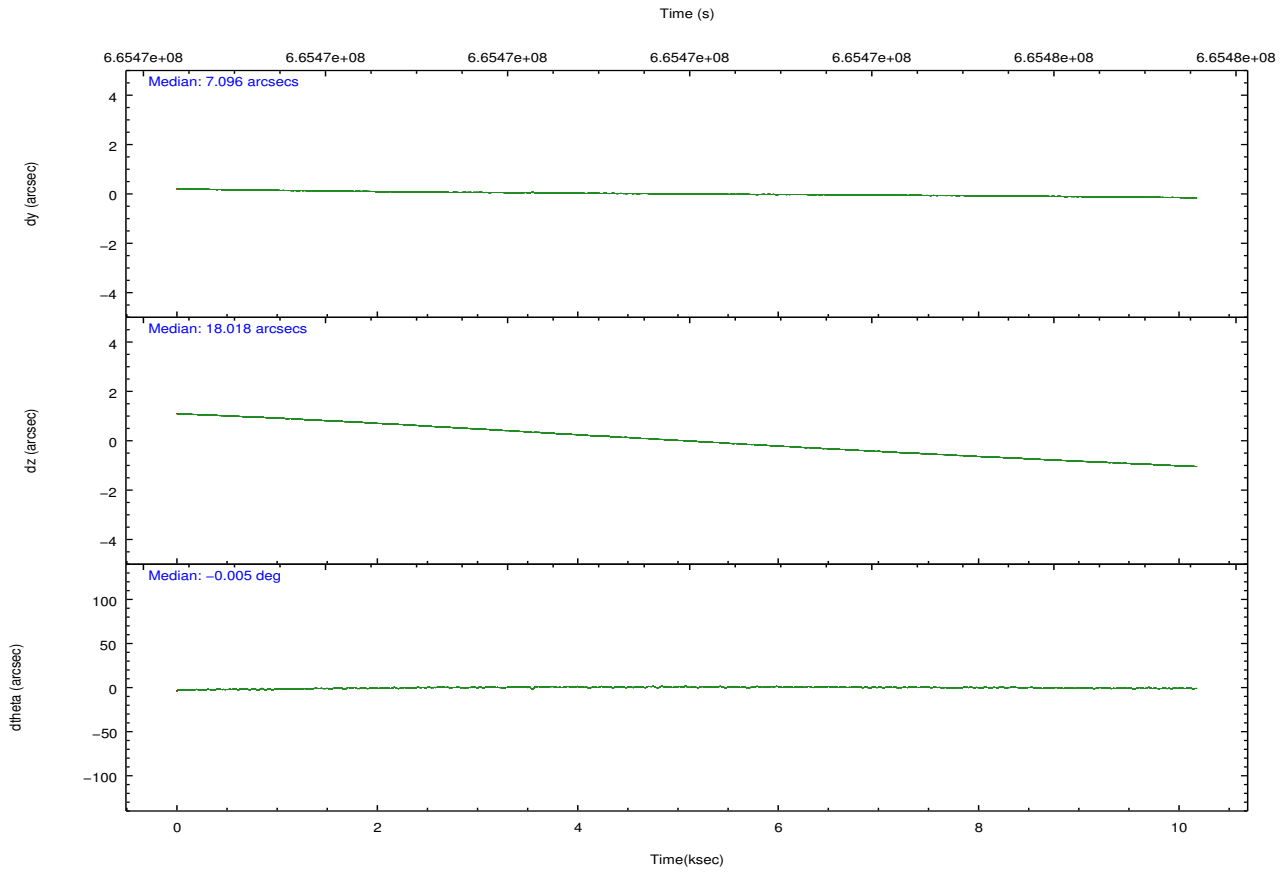
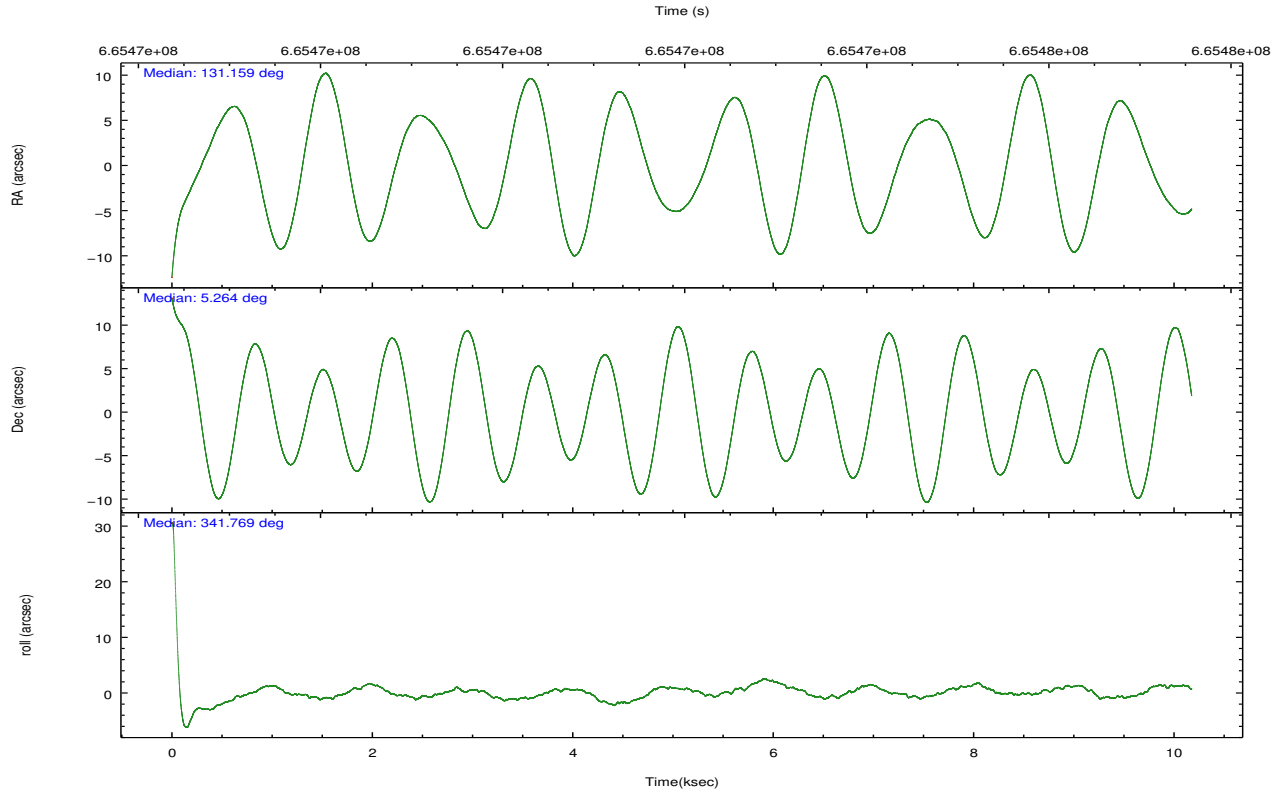
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	6076	3048	3504	8030
	4%	4%	3%	8%
grade 1 events	285	41	124	84
	0%	0%	0%	0%
grade 2 events	19590	2059	9252	6676
	15%	2%	9%	6%
grade 3 events	1828	847	3327	2859
	1%	1%	3%	2%
grade 4 events	1770	846	3226	2782
	1%	1%	3%	2%
grade 5 events	8906	3546	9347	5441
	7%	4%	9%	5%
grade 6 events	31833	1991	22845	7283
	25%	2%	23%	7%
grade 7 events	55680	62437	44603	65232
	44%	83%	46%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	131.132302	131.1591860089658	Subarray requested	NONE	NONE
[deg] Pointing Dec	5.257500	5.26352532213645	Alternating exposures requested	N	N
[deg] Pointing Roll	341.623541	341.7777527819173	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	665467047.184000	665465671.71552			
Observation start date	2019-02-02T03:56:18	2019-02-02T03:34:31			
[s] Observation end time (MET)	665477047.184000	665477720.59124			
Observation end date	2019-02-02T06:42:58	2019-02-02T06:55:20			
Read mode	TIMED	TIMED			

2.3 Aspect



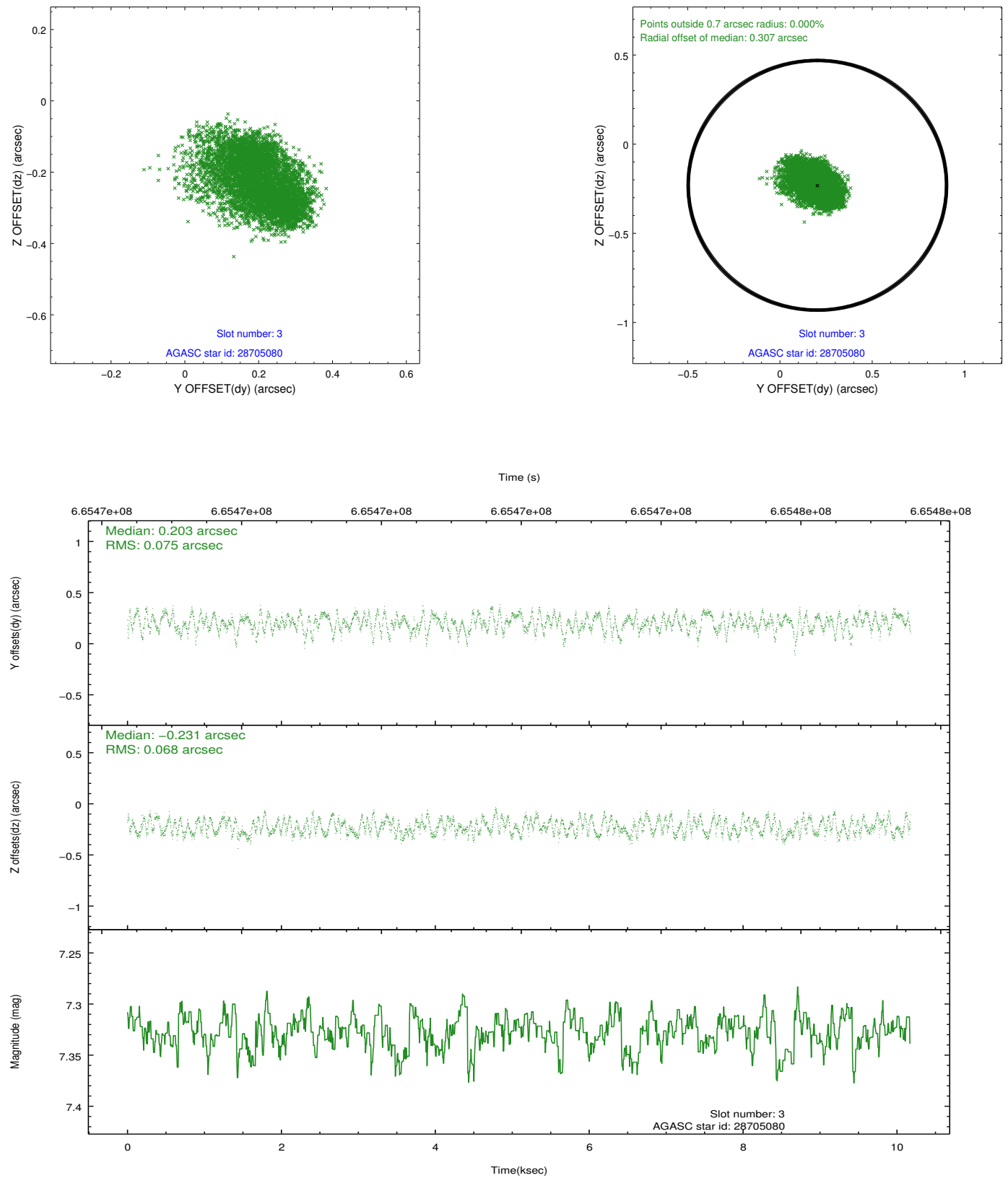


Slot Statistics

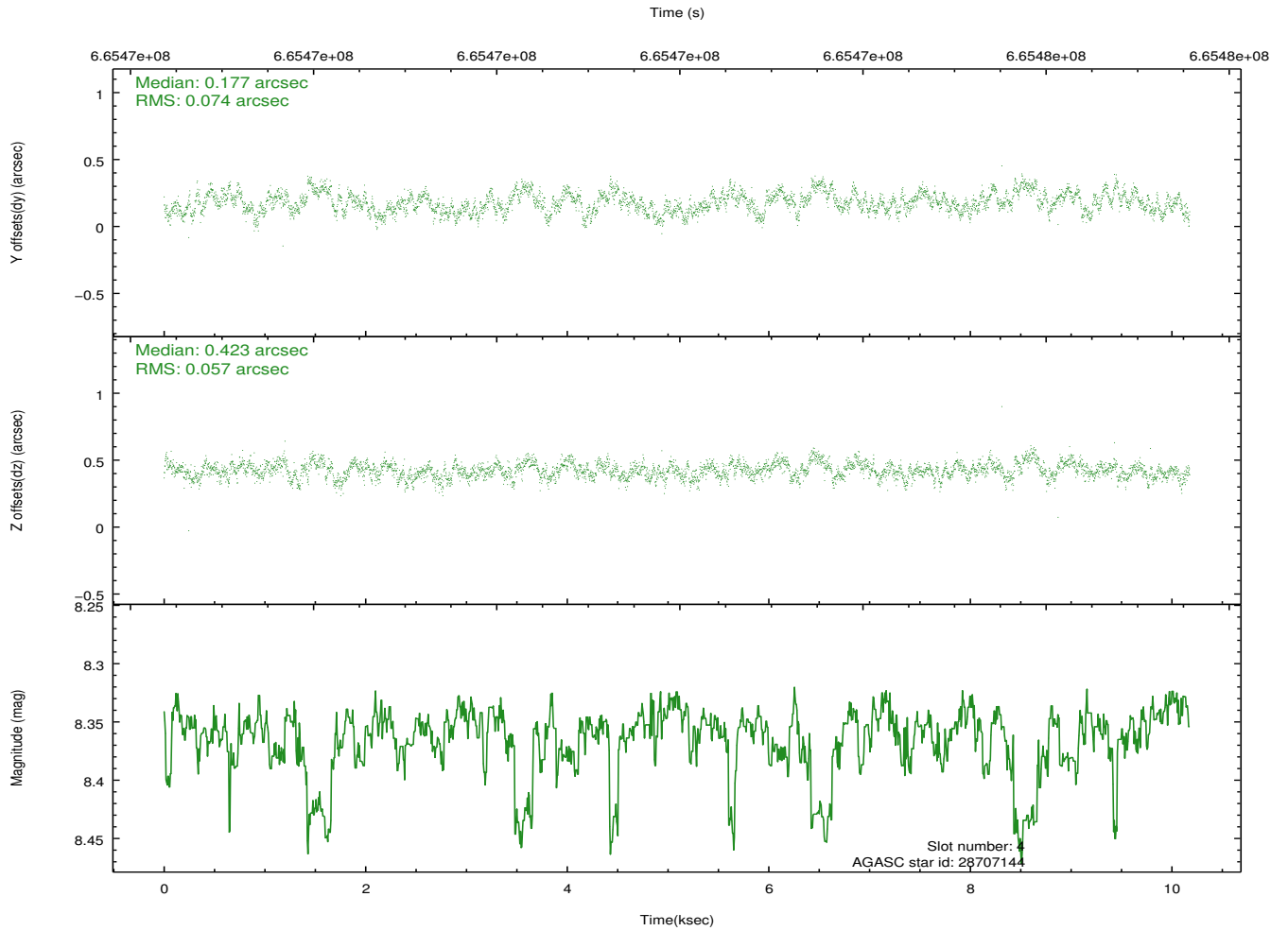
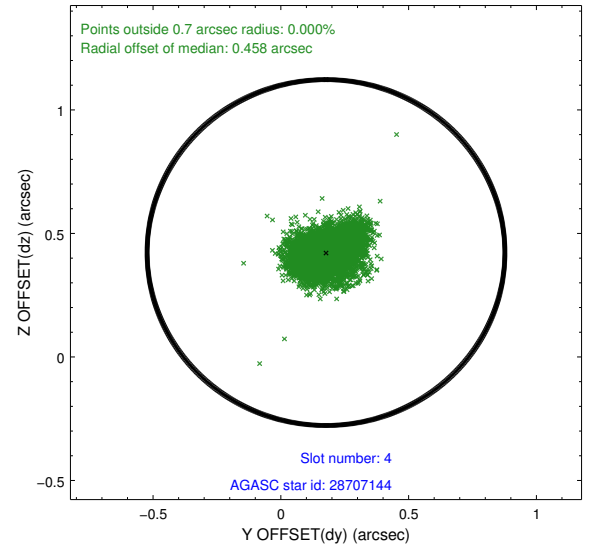
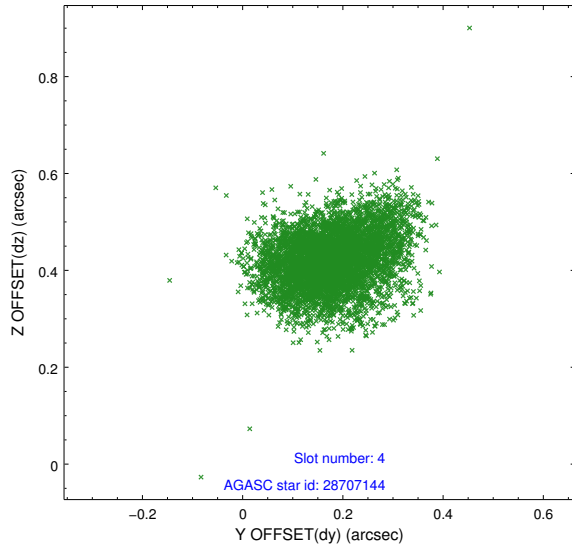
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.00	2482	1.000	-0.246	-0.134	0.016	0.025	0.000000	0.000000	-760.07	-1739
1	FID		ACIS-S-4	7.13	2483	1.000	0.520	0.155	0.007	0.014	0.000000	0.000000	2153.70	168
2	FID		ACIS-S-5	7.12	2483	1.000	-0.304	-0.012	0.015	0.024	0.000000	0.000000	-1812.34	162
3	GUIDE	used	28705080	7.33	4964	1.000	0.203	-0.231	0.109	0.169	131.129887	5.285853	-40.55	93
4	GUIDE	used	28707144	8.36	4962	1.000	0.177	0.423	0.099	0.161	130.816588	5.265959	-1083.39	-328
5	GUIDE	used	28836080	8.26	4964	1.000	-0.290	-0.203	0.094	0.158	131.551996	5.286863	1394.23	574
6	GUIDE	used	28846800	6.26	4965	1.000	0.047	0.142	0.082	0.137	131.395266	4.664380	1570.93	-1729
7	GUIDE	used	29361256	6.51	4964	1.000	-0.143	-0.132	0.116	0.187	131.255333	5.680586	-61.41	1583

2.4 Star Slots

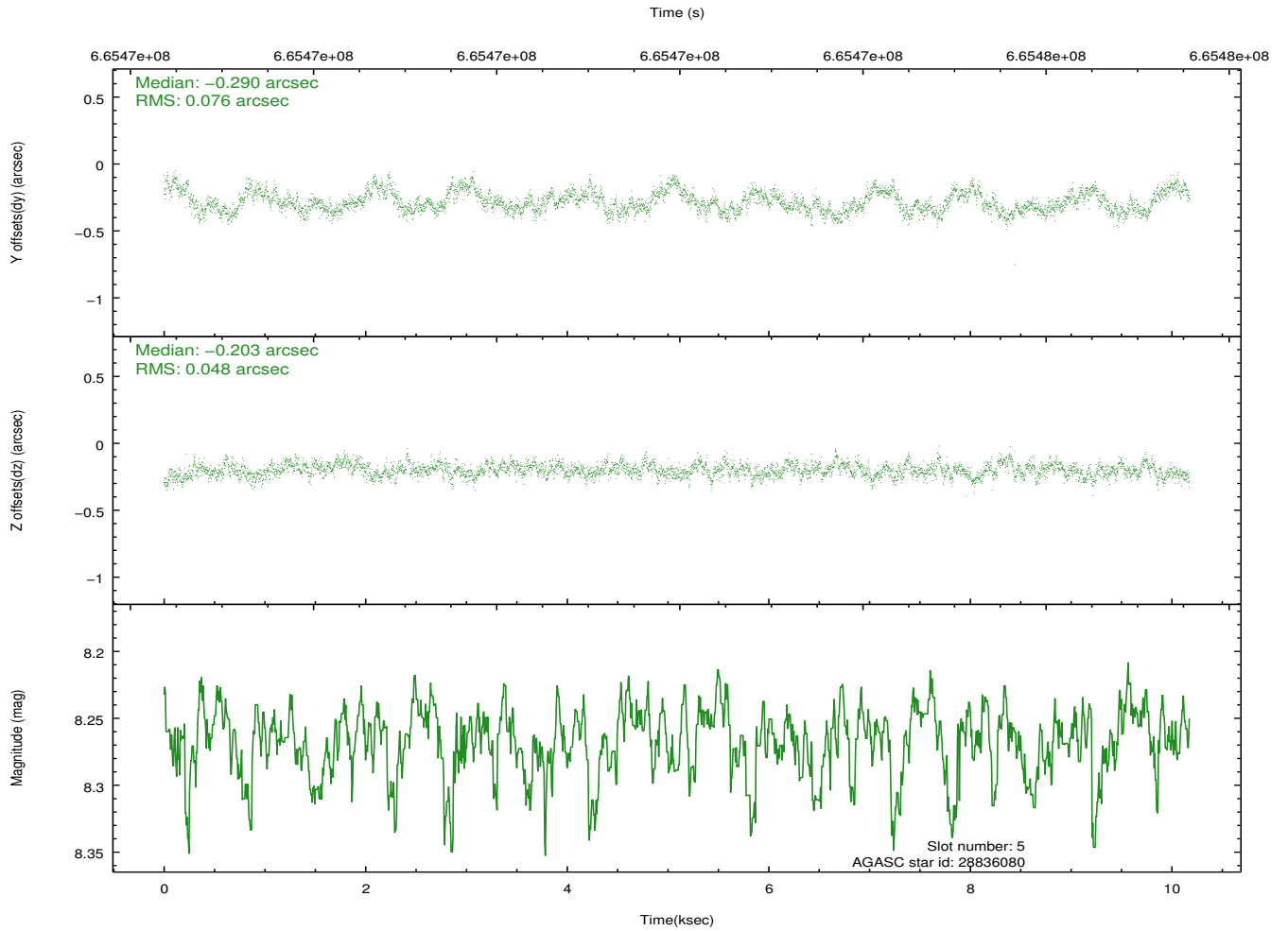
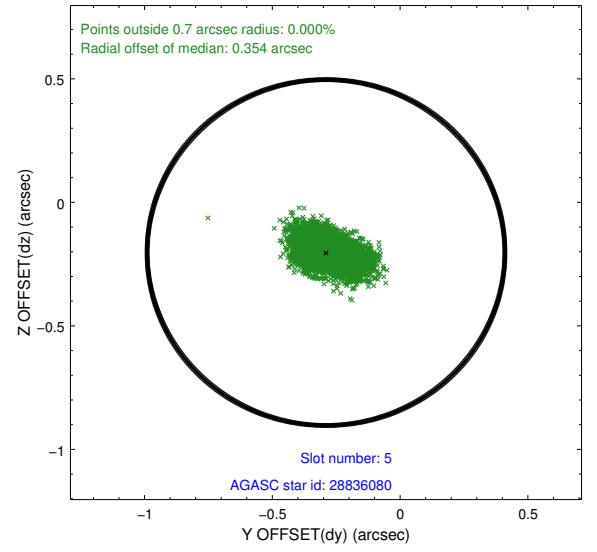
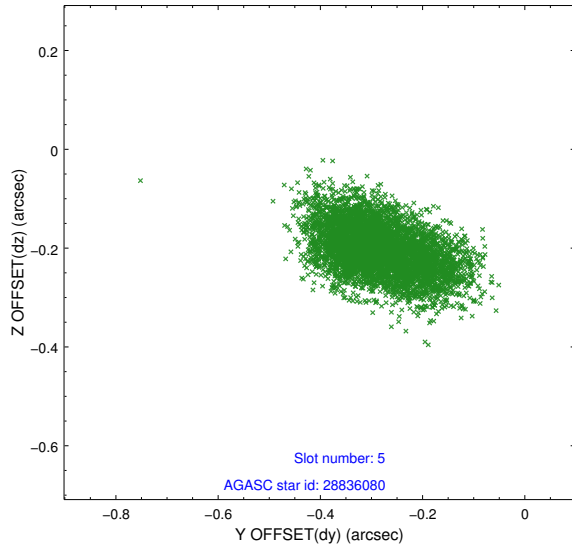
2.4.1 Slot 3



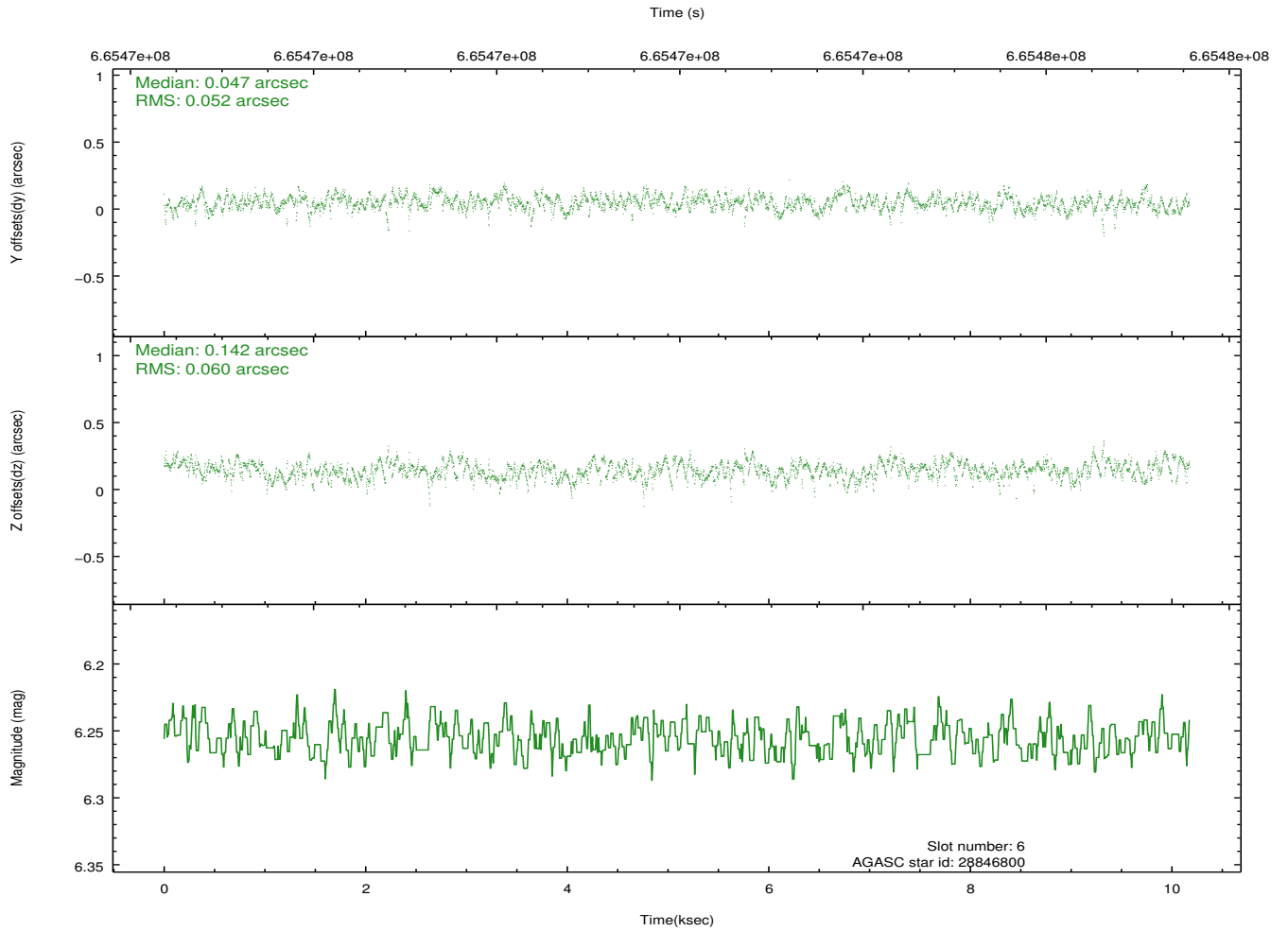
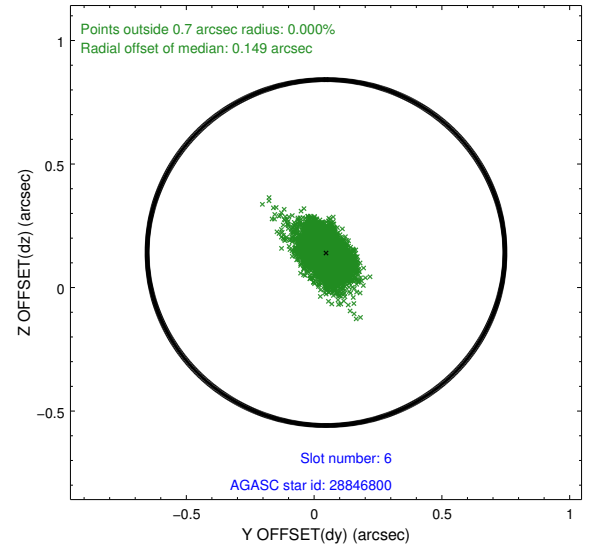
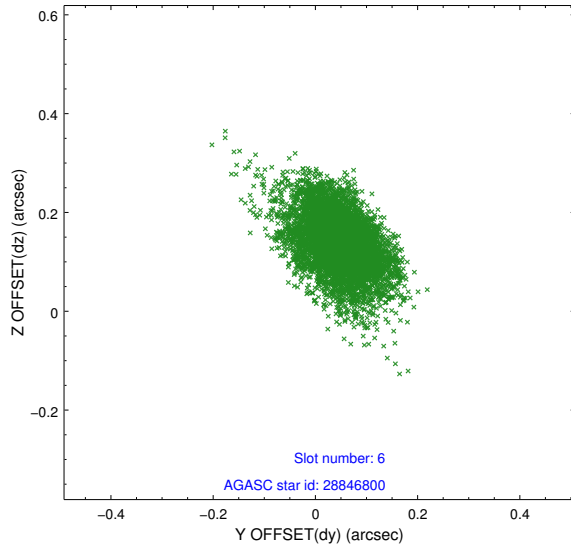
2.4.2 Slot 4



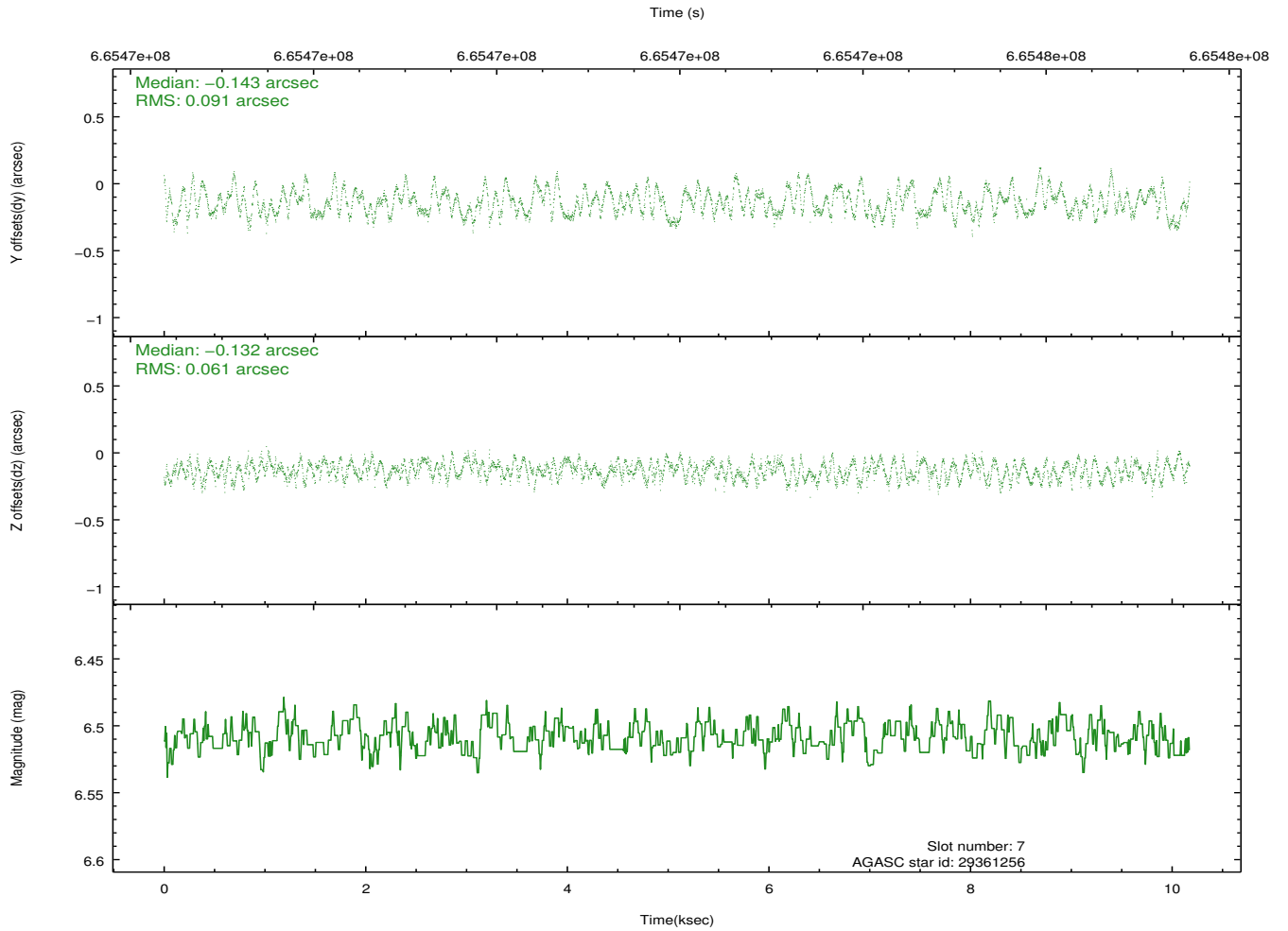
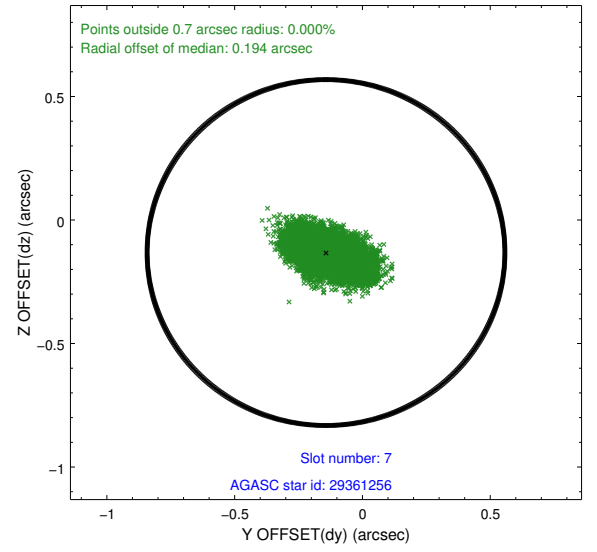
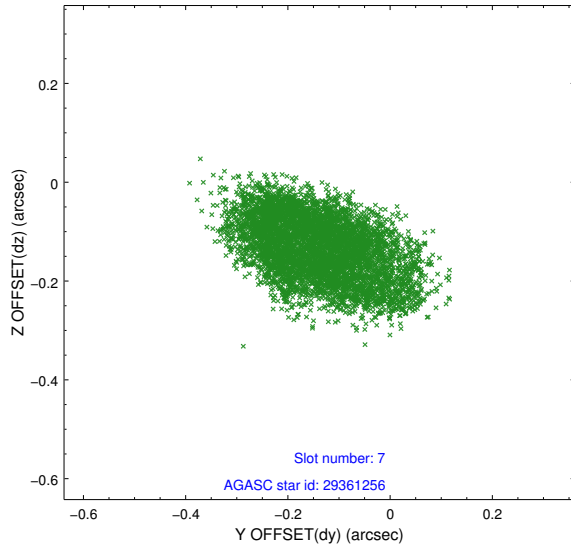
2.4.3 Slot 5



2.4.4 Slot 6

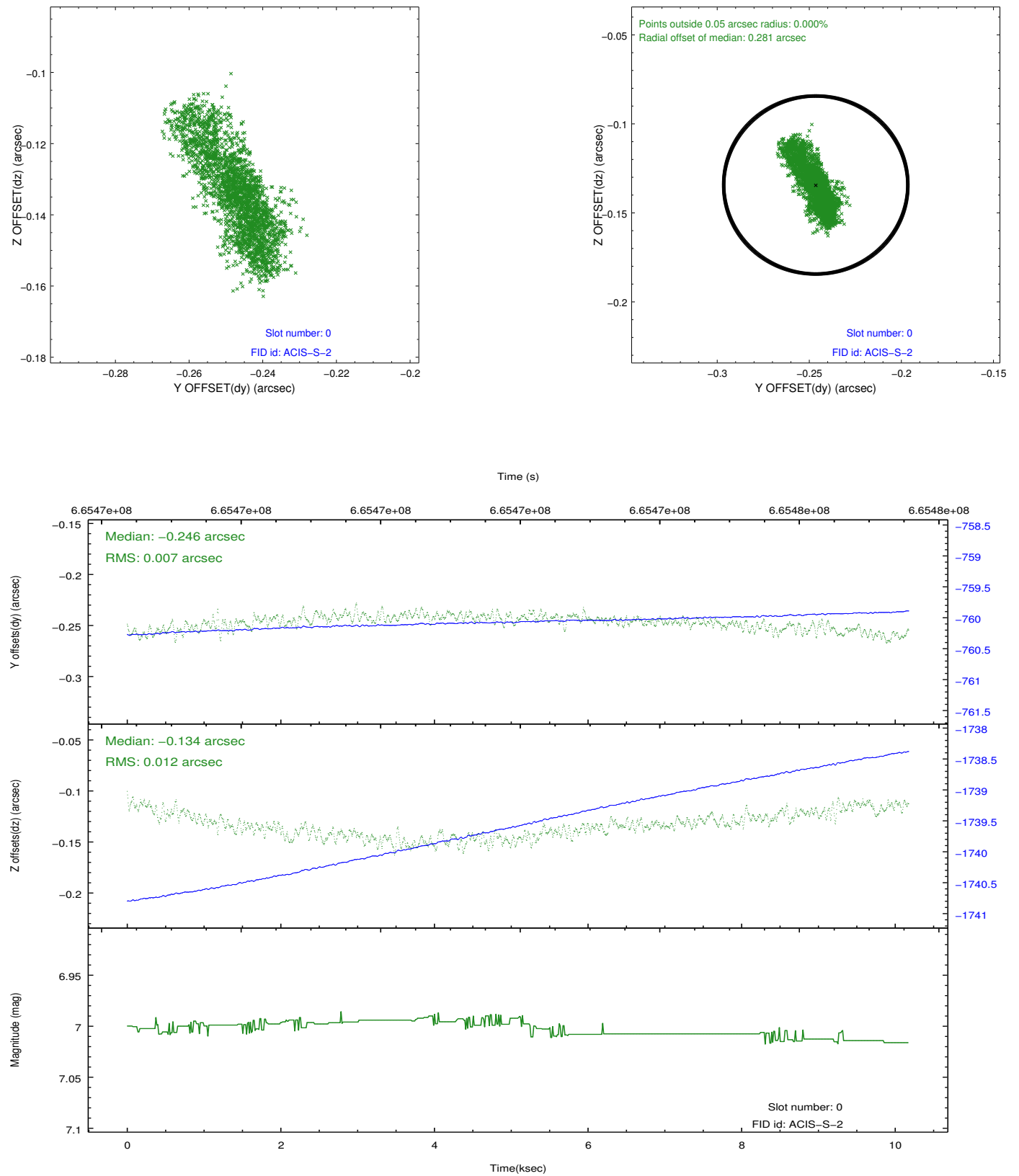


2.4.5 Slot 7

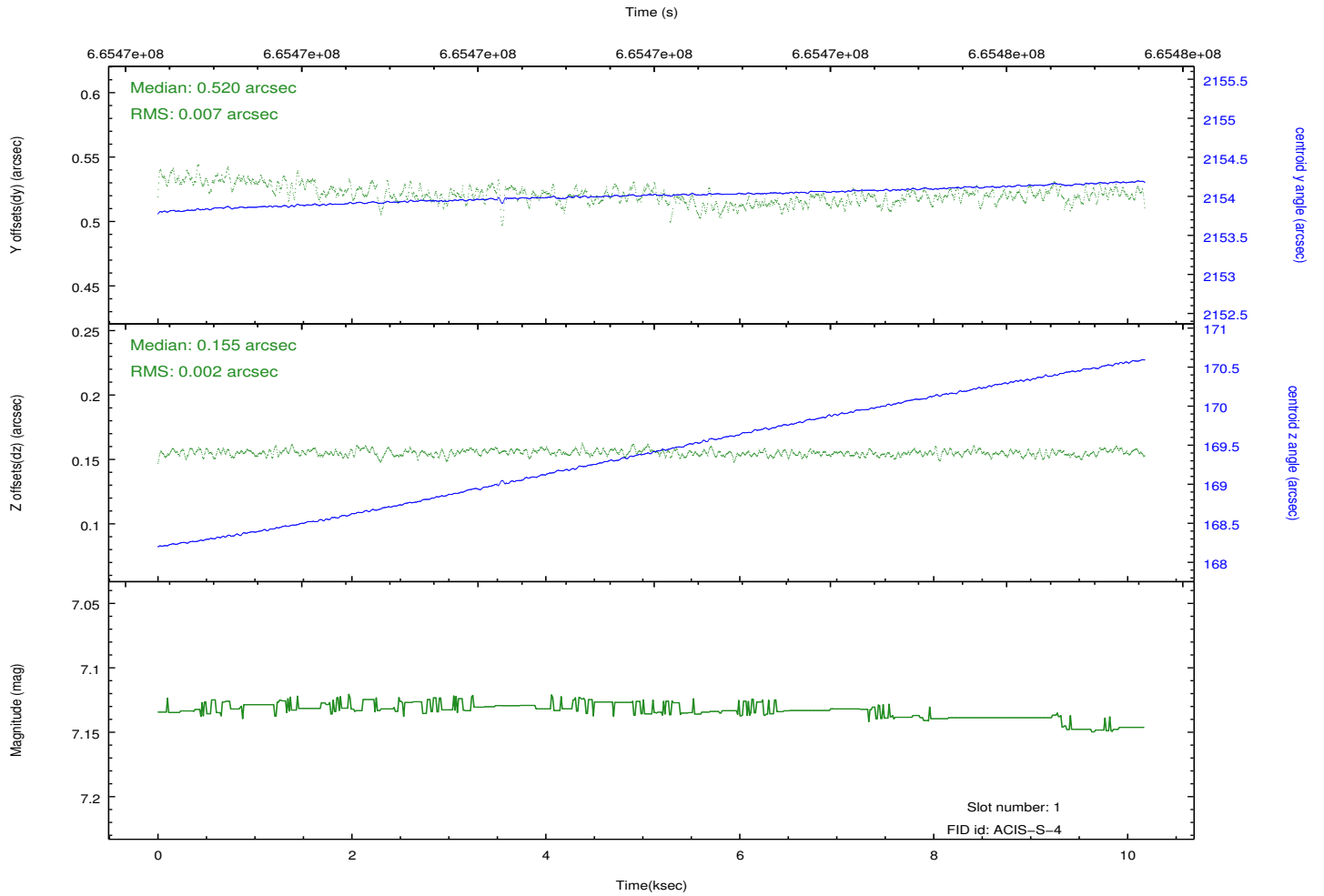
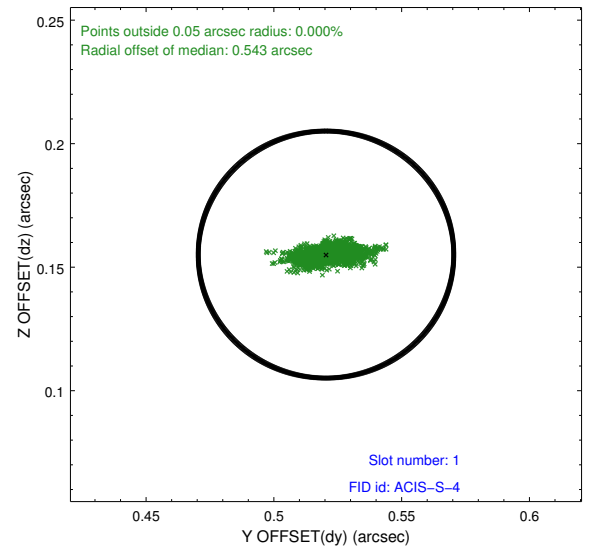
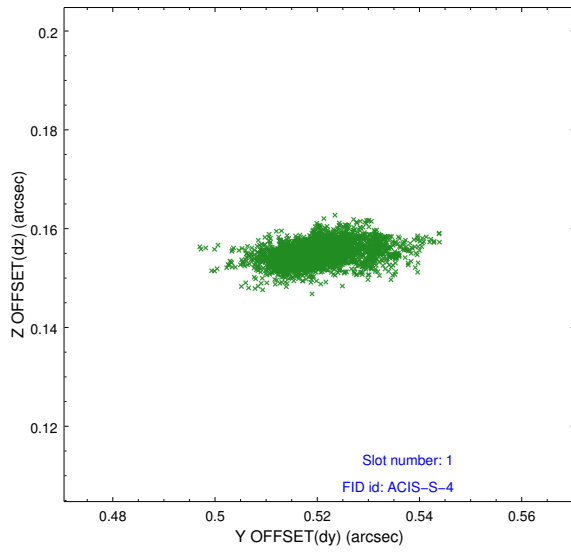


2.5 FID Slots

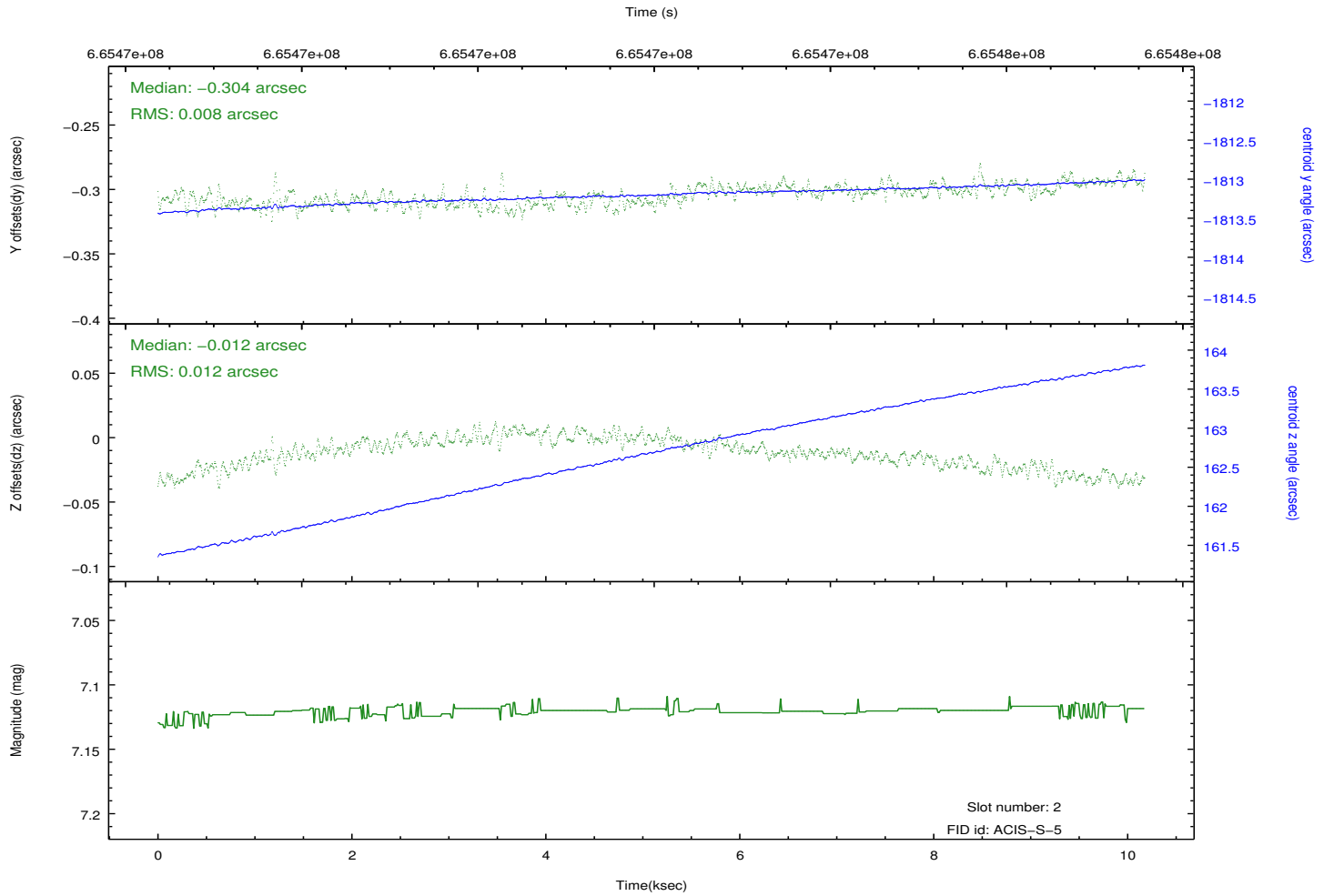
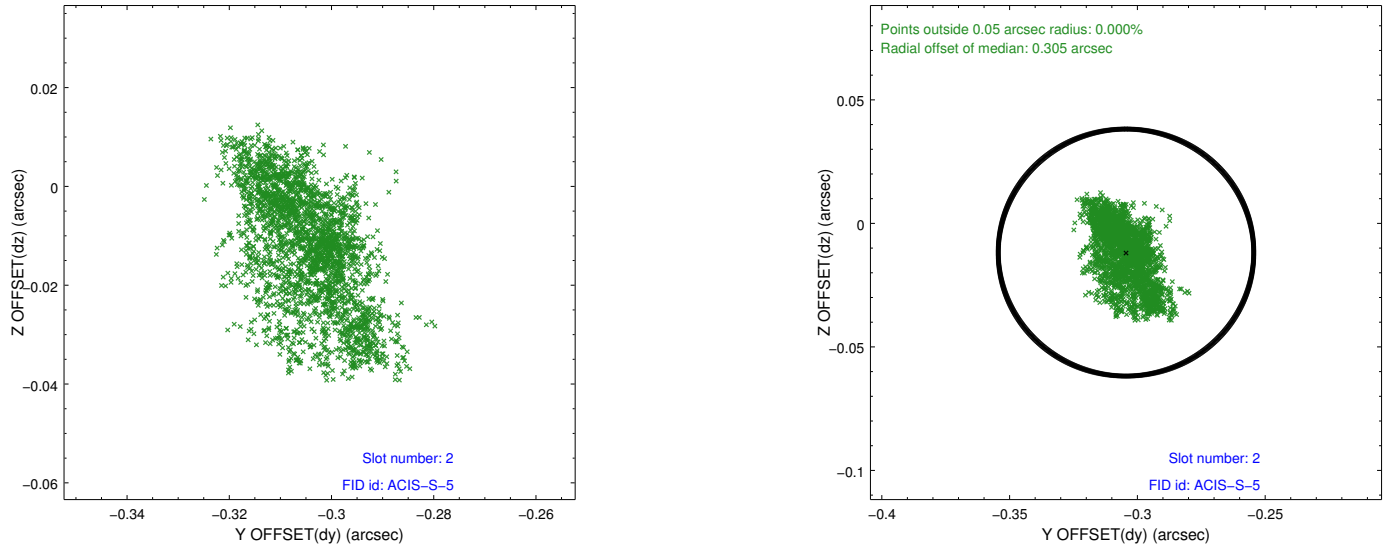
2.5.1 Slot 0



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)	2019.02.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.062300326586

A.2 Comments