

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18265 - L2 Version 2
Chandra X-Ray Center

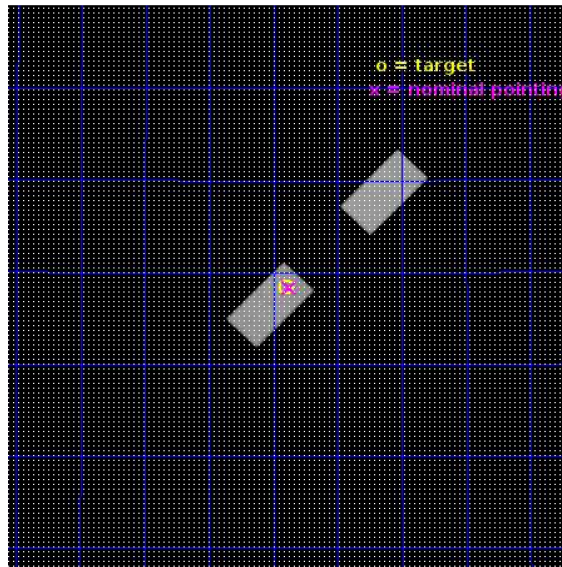
L2 Processing Date : Mar 17 2017

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1 Front

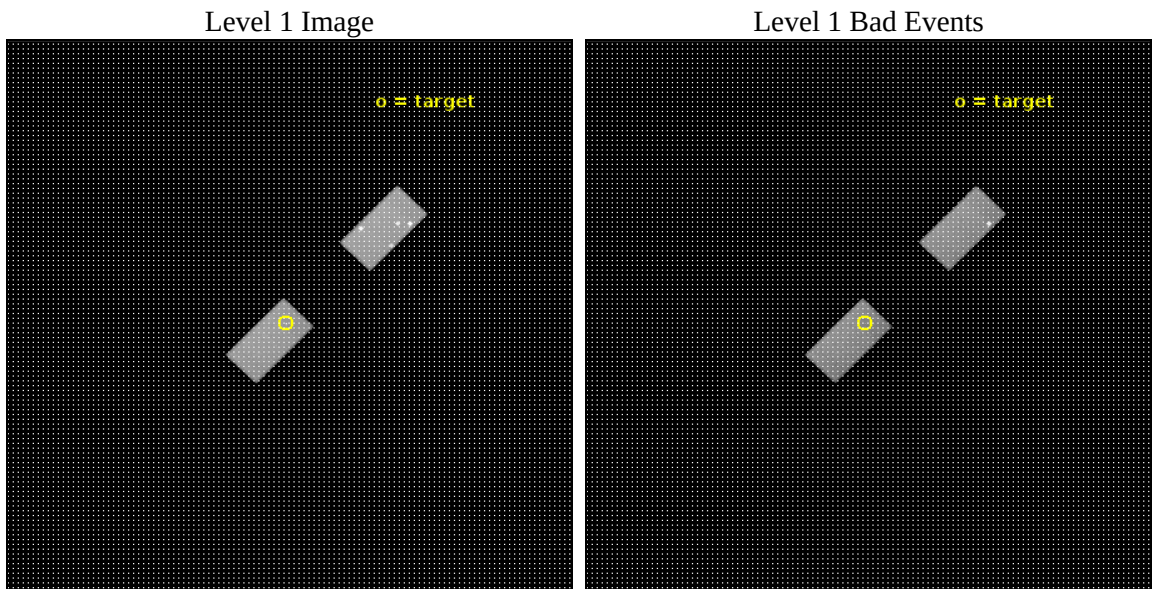
seq_num	801589	Sequence number
obs_id	18265	Observation id
title	The Weak-Line Quasar PG1407+265 and its Cluster	Proposal title
observer	Dr Jonathan McDowell	Principal investigator
object	PG1407+265	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	212.349583	Observer's specified target RA [deg]
dec_targ	26.305833	Observer's specified target Dec [deg]
ra_nom	212.34385878692	Nominal RA [deg]
dec_nom	26.305618620984	Nominal Dec [deg]
roll_nom	134.15918049848	Nominal Roll [deg]
revision	2	Processing version of data
ontime	42604.70645082	Sum of GTIs [s]
livetime	41539.225321328	Livetime [s]
ontime5	42604.665410876	Sum of GTIs [s]
ontime7	42604.70645082	Sum of GTIs [s]
l2events	210616	Number of level 2 events



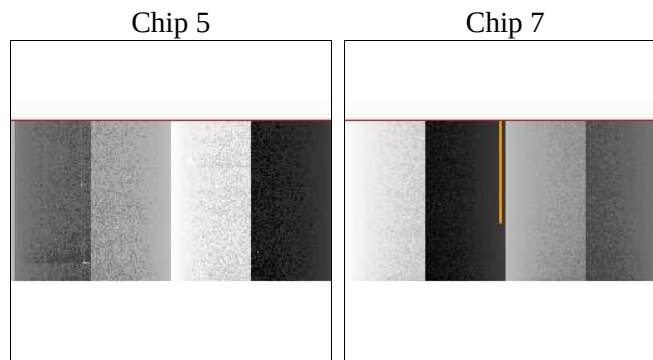
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	42536.221000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	42604.70645082	Sum of GTIs [s]
caldsver	4.7.3	 	ontime5	42604.665410876	Sum of GTIs [s]
date	2017-03-17T16:18:14	Date and time of file creation	ontime7	42604.70645082	Sum of GTIs [s]
revision	2	Processing version of data	l1events	516993	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 7
level 1 events	312347	204646
rejected events	139895	107728
rejected %	44%	52%

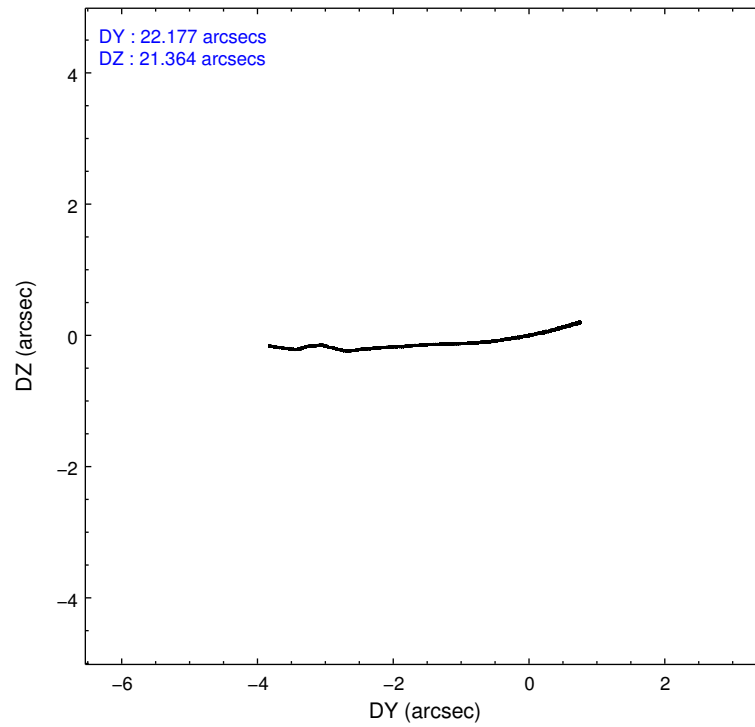
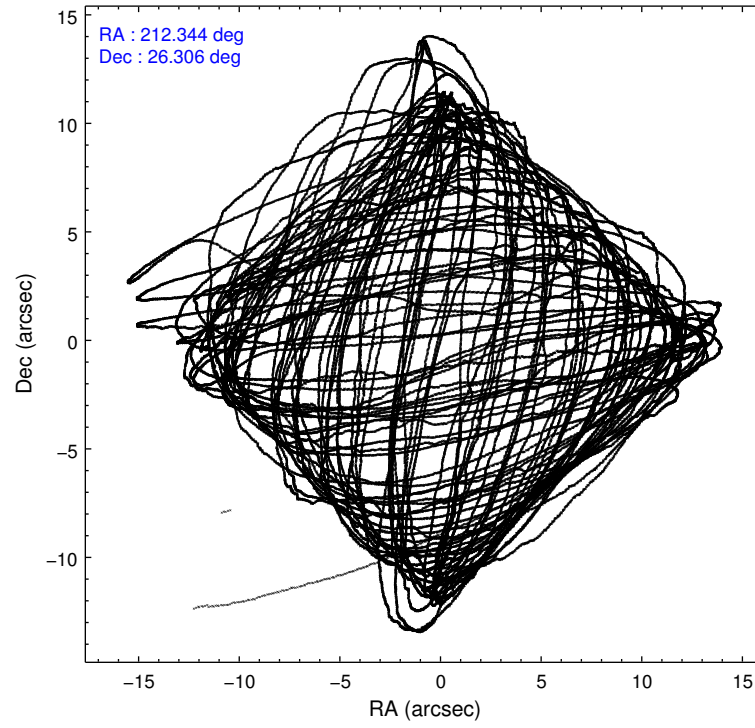
	ccd 5	ccd 7
grade 0 events	53173	10227
	17%	4%
grade 1 events	657	261
	0%	0%
grade 2 events	44718	20520
	14%	10%
grade 3 events	6119	9569
	1%	4%
grade 4 events	5092	9283
	1%	4%
grade 5 events	20854	21166
	6%	10%
grade 6 events	63366	47328
	20%	23%
grade 7 events	118368	86292
	37%	42%

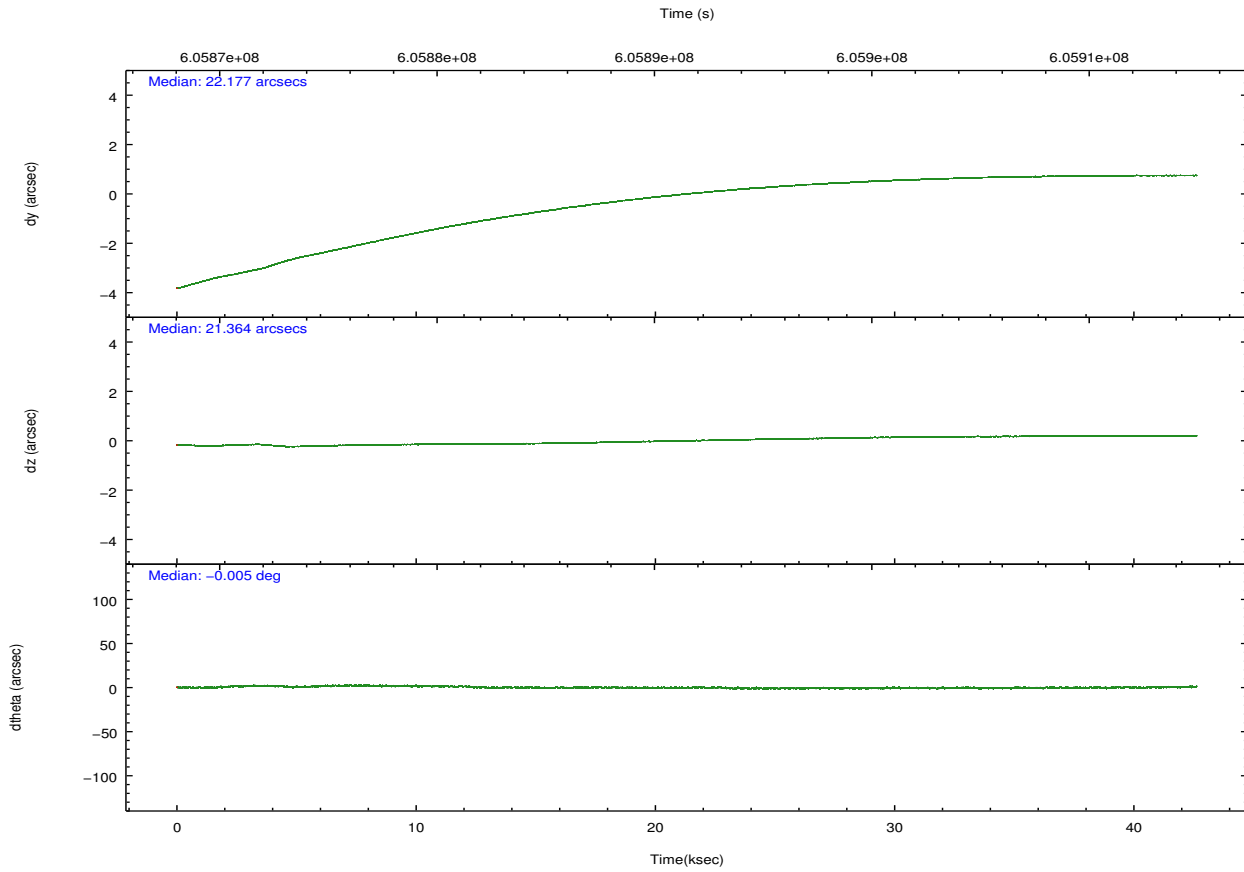
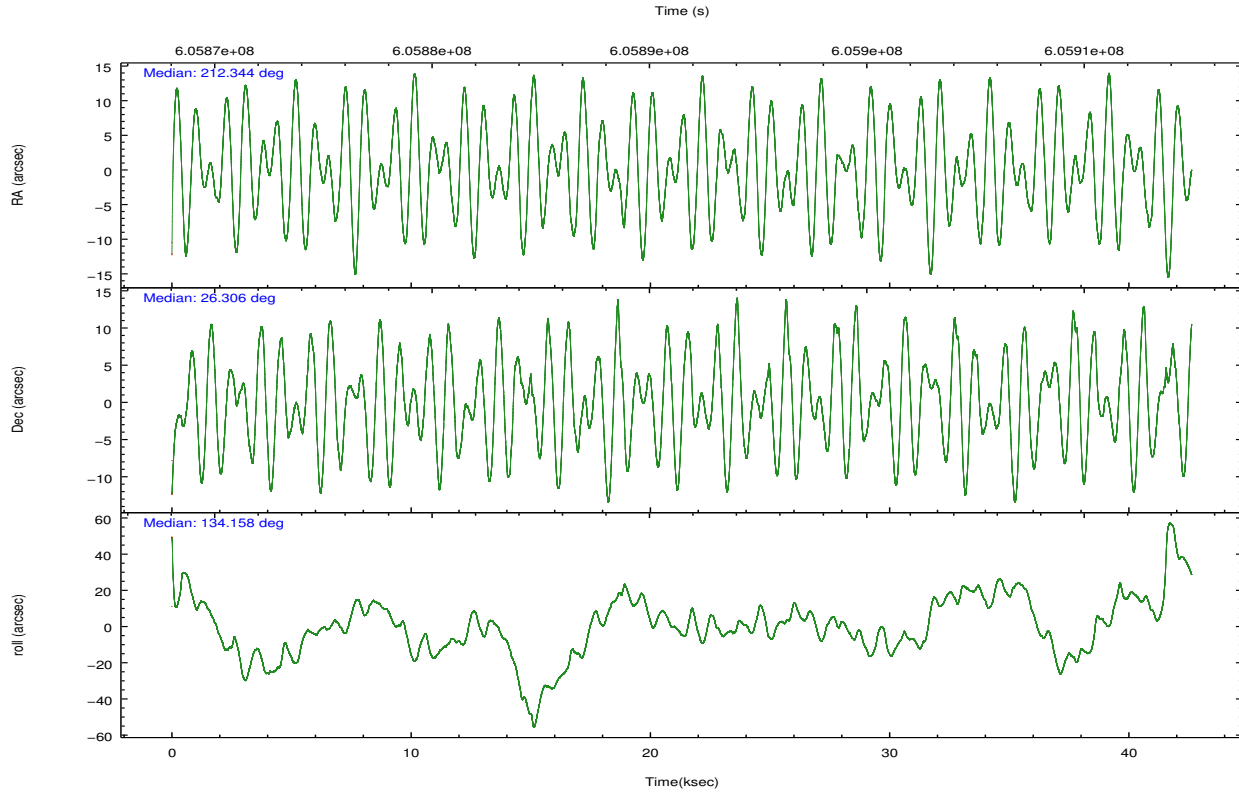
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-57	ACIS-57
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	212.373418	212.3438587869156
[deg] Pointing Dec	26.298483	26.30561862098425
[deg] Pointing Roll	133.989435	134.1591804984822
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	605870277.184000	605868711.3131
Observation start date	2017-03-14T09:16:48	2017-03-14T08:51:51
[s] Observation end time (MET)	605912813.184000	605913034.3657
Observation end date	2017-03-14T21:05:44	2017-03-14T21:10:34
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	O1	Y
CCD S2 on	N	N
CCD S3 on	Y	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/2
Subarray start row	257	257
Subarray row count	512	512
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	1.6

2.3 Aspect



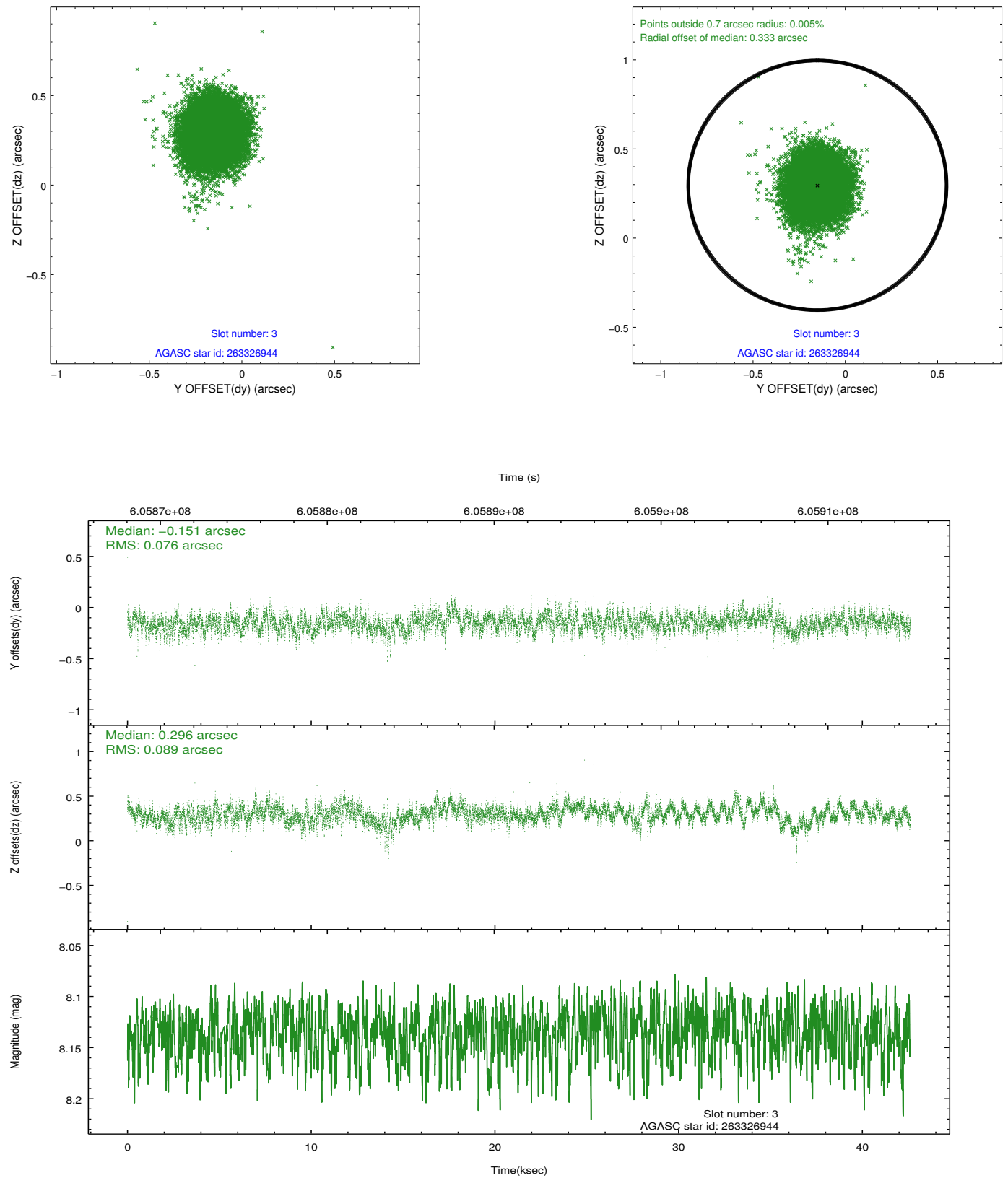


Slot Statistics

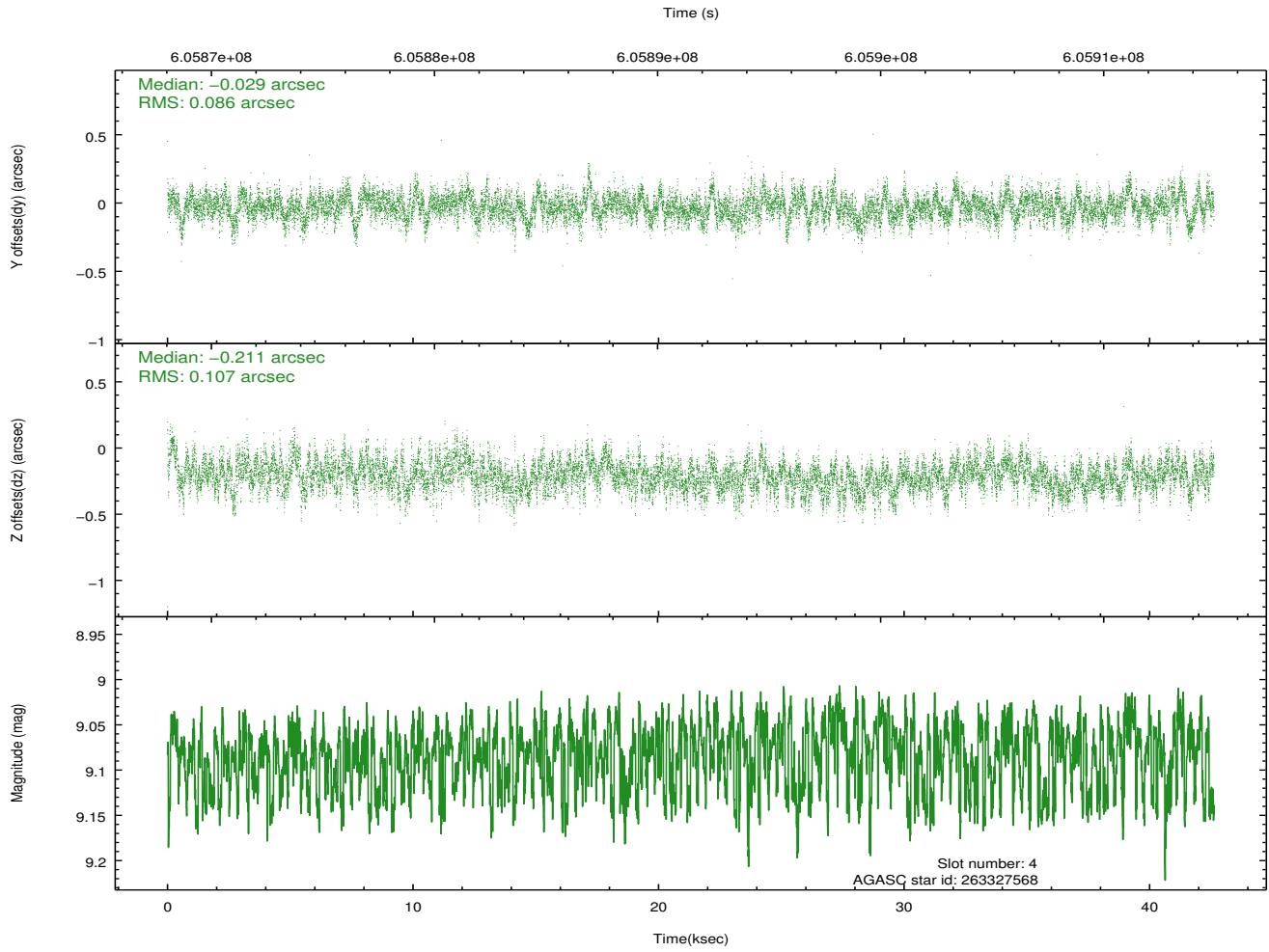
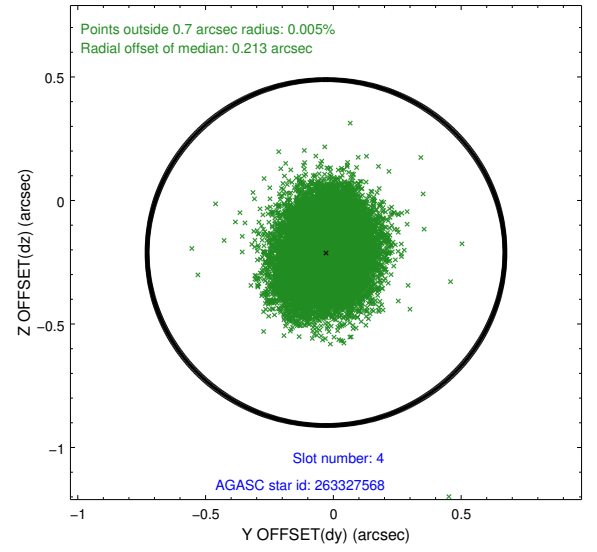
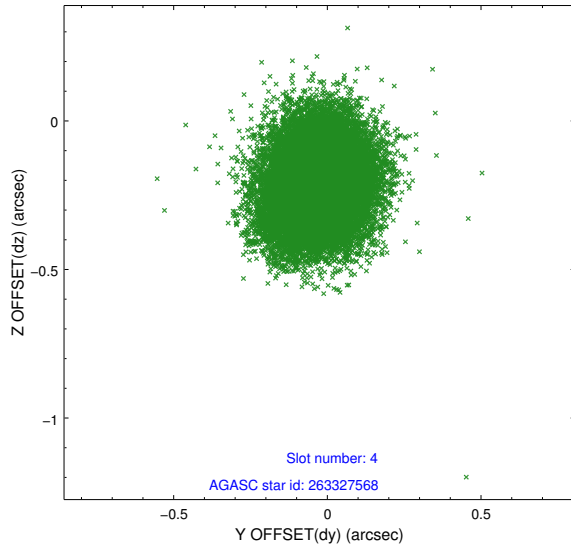
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.98	10397	-0.239	-0.129	0.019	0.028	0.000000	0.000000	-774.98	-1743.06
1	FID		ACIS-S-4	7.09	10396	0.530	0.151	0.028	0.043	0.000000	0.000000	2139.02	165.76
2	FID		ACIS-S-5	7.09	10397	-0.328	-0.012	0.032	0.041	0.000000	0.000000	-1827.95	159.18
3	GUIDE	used	263326944	8.13	20726	-0.151	0.296	0.121	0.203	212.040929	26.777077	1982.20	-427.50
4	GUIDE	used	263327568	9.08	20771	-0.029	-0.211	0.146	0.241	212.022145	26.540541	1412.81	207.74
5	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	used	263456560	8.38	20787	0.182	-0.085	0.146	0.259	212.333159	25.442581	-2126.64	2234.88

2.4 Star Slots

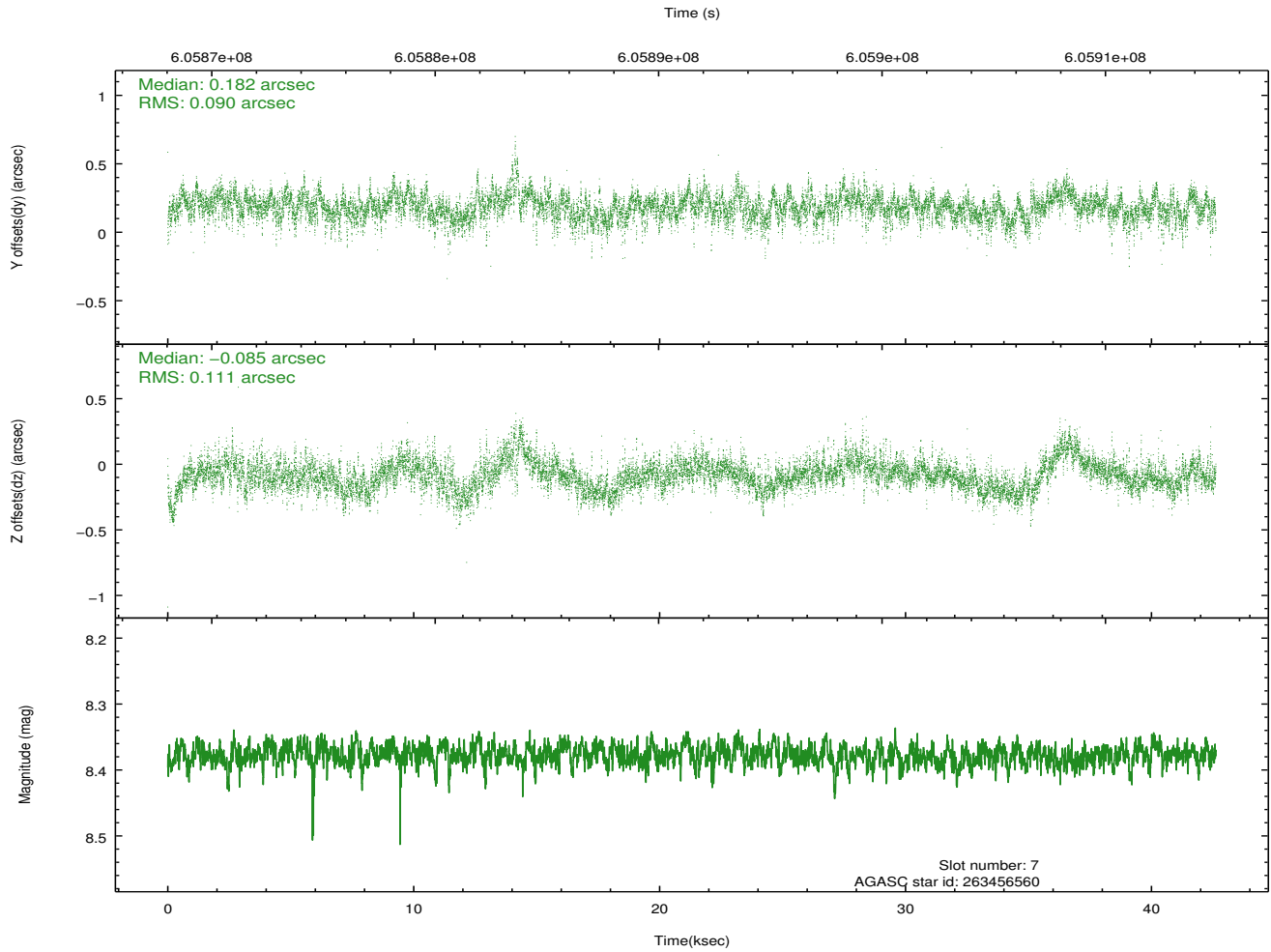
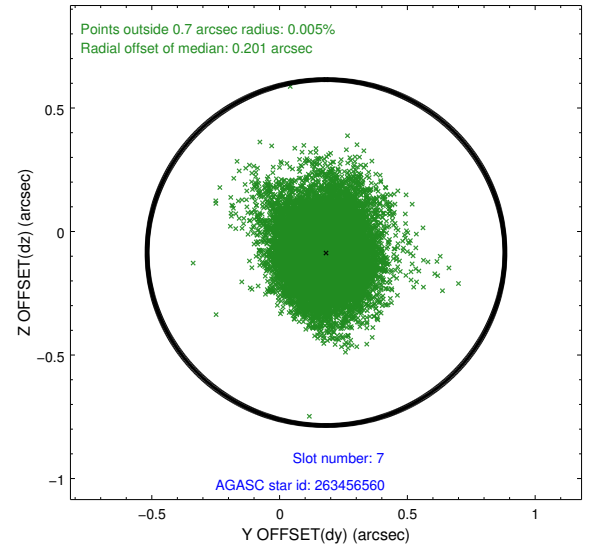
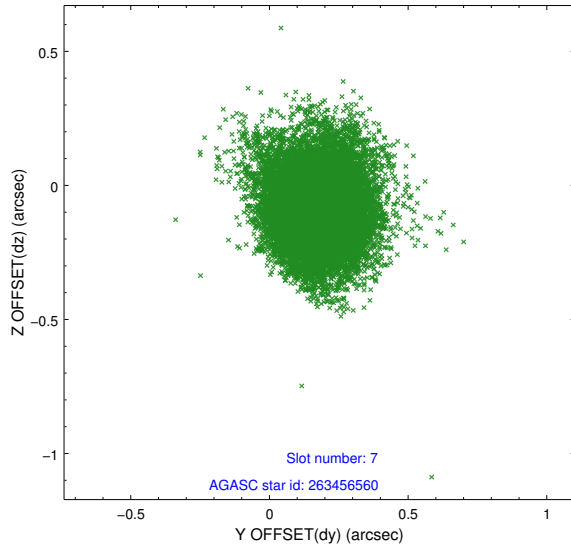
2.4.1 Slot 3



2.4.2 Slot 4

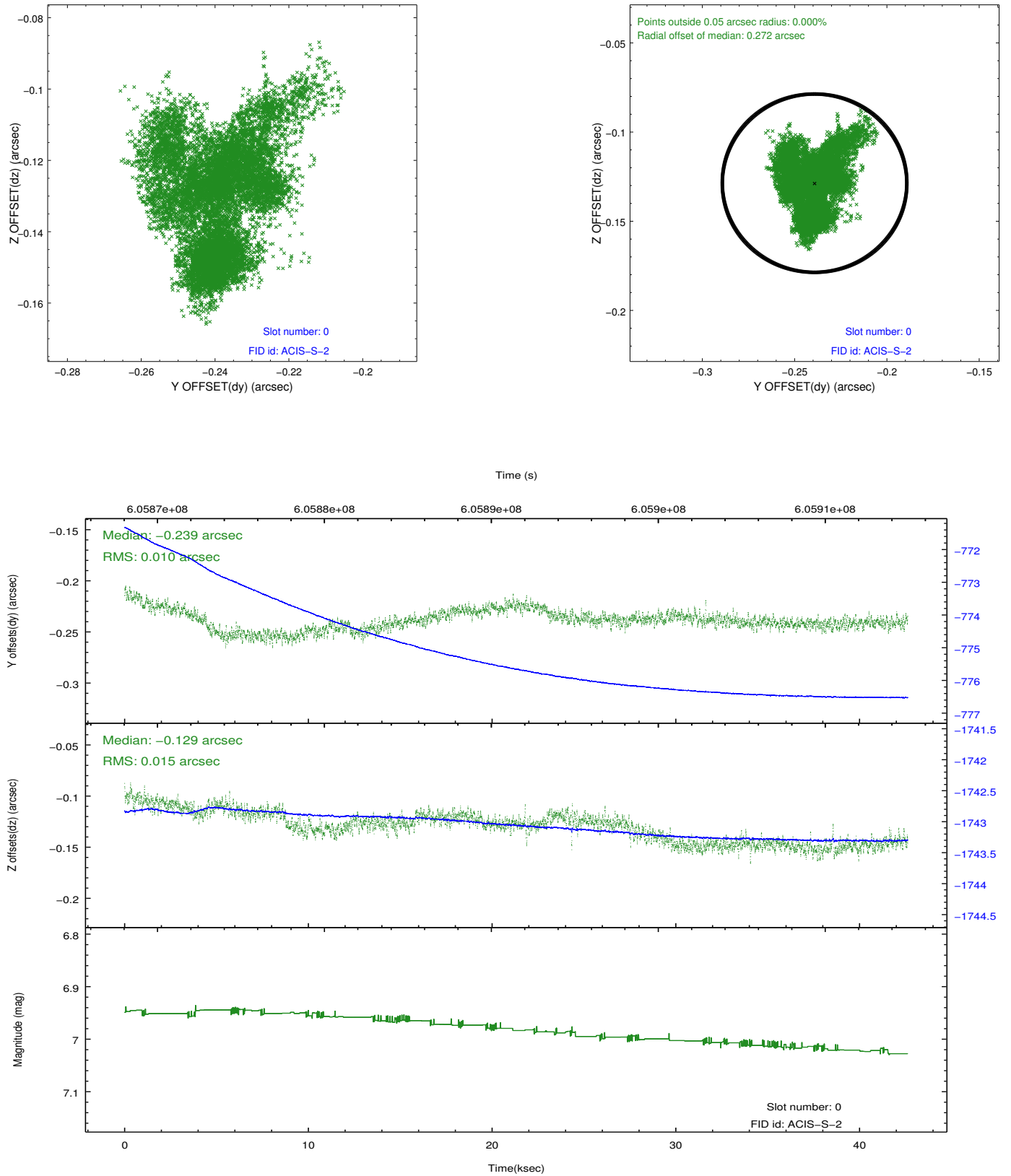


2.4.3 Slot 7

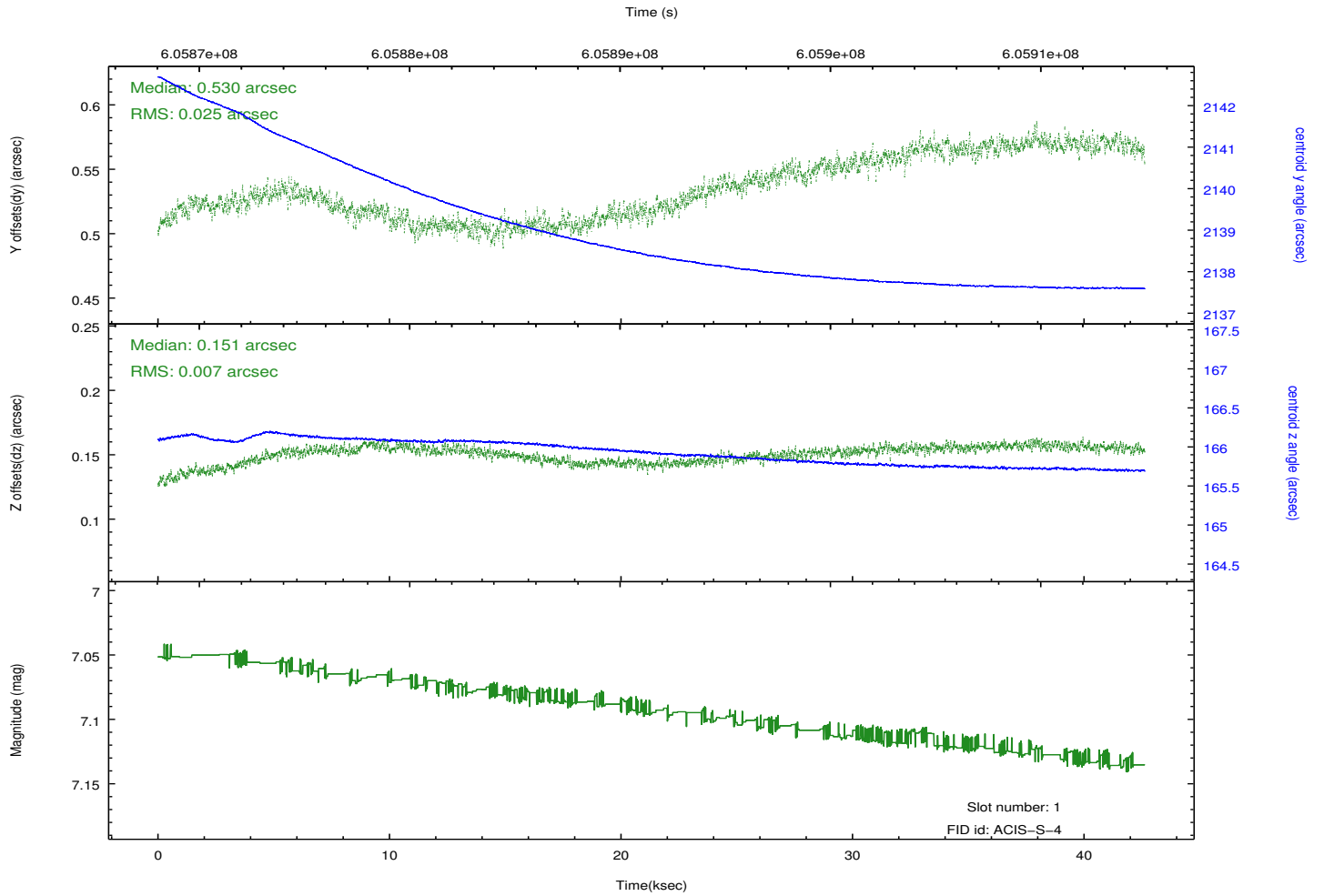
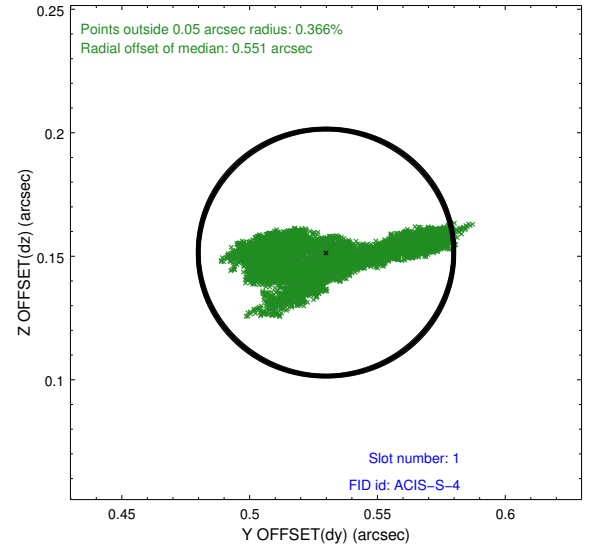
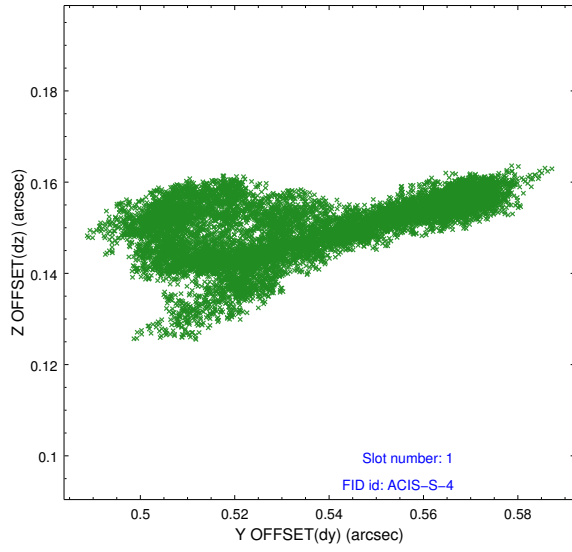


2.5 FID Slots

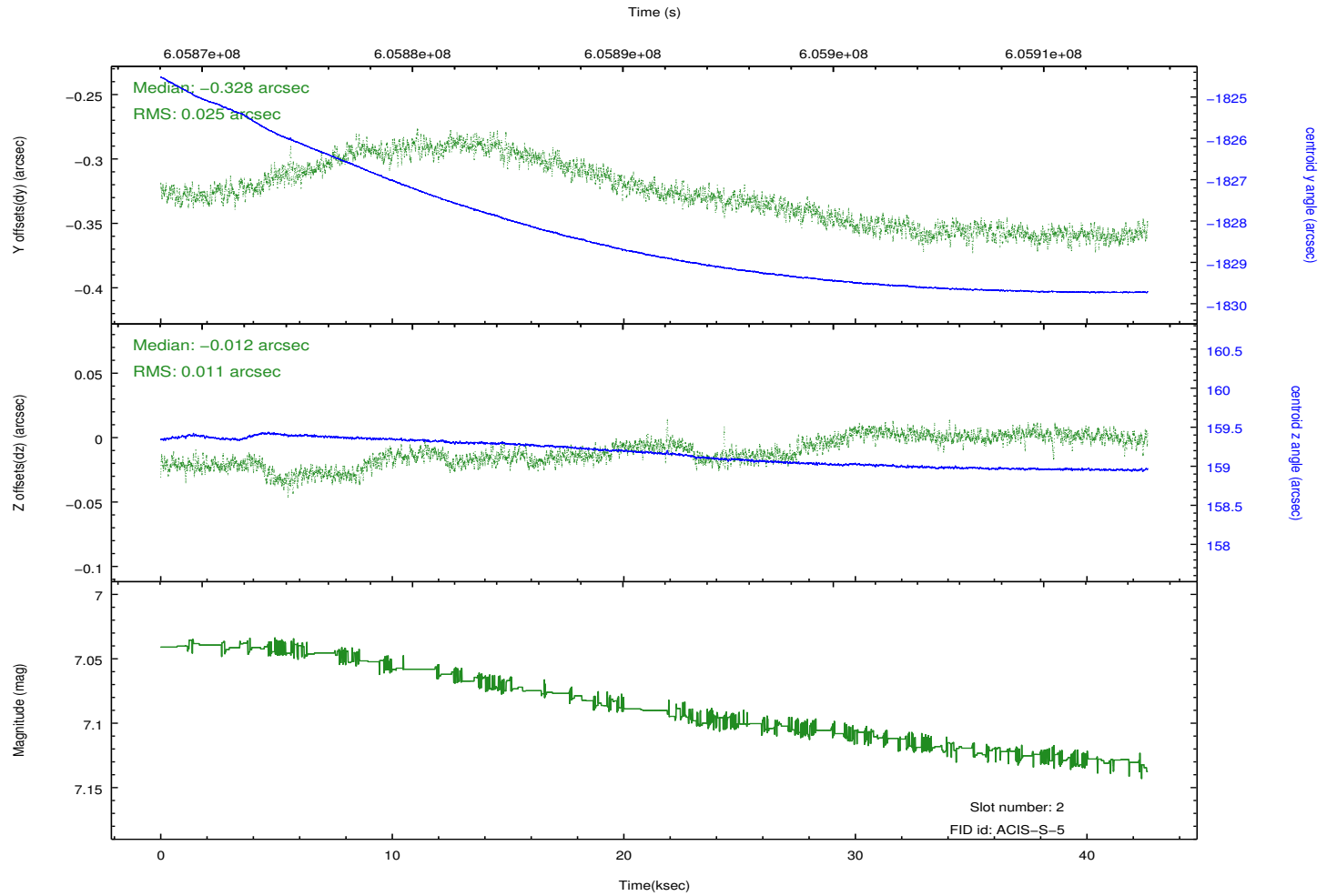
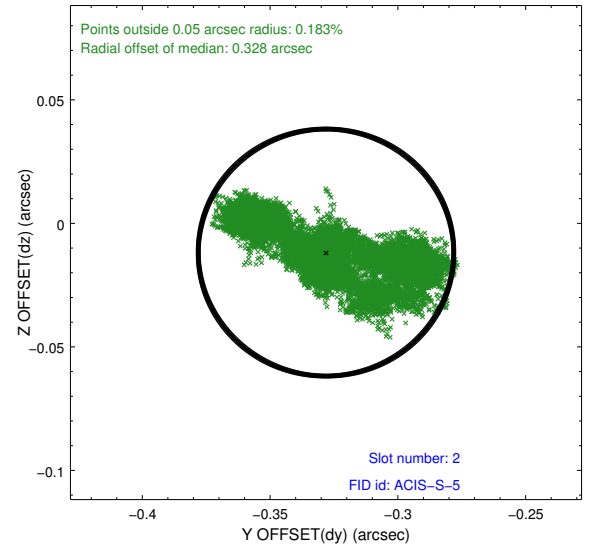
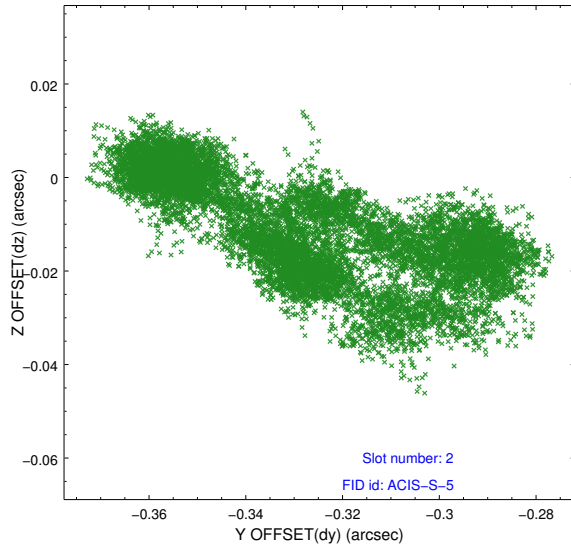
2.5.1 Slot 0



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)	2017.03.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	42.60470645082

A.2 Comments

The guide stars in slots 5 and 6 were removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of these slots from the solution.