

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 21473 - L2 Version 1
Chandra X-Ray Center

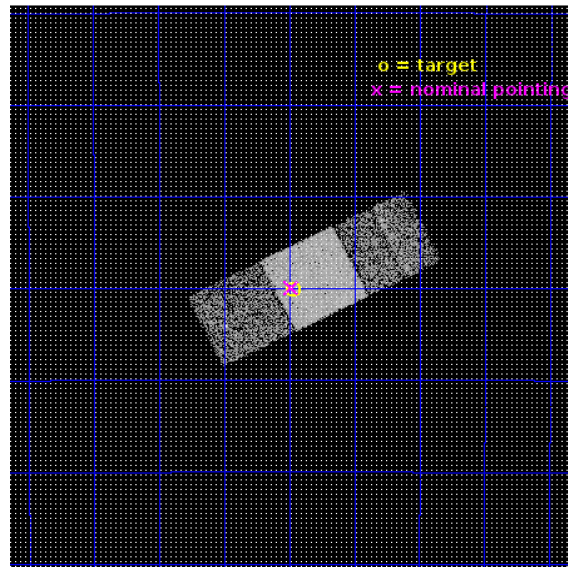
L2 Processing Date : Dec 7 2018

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1 Front

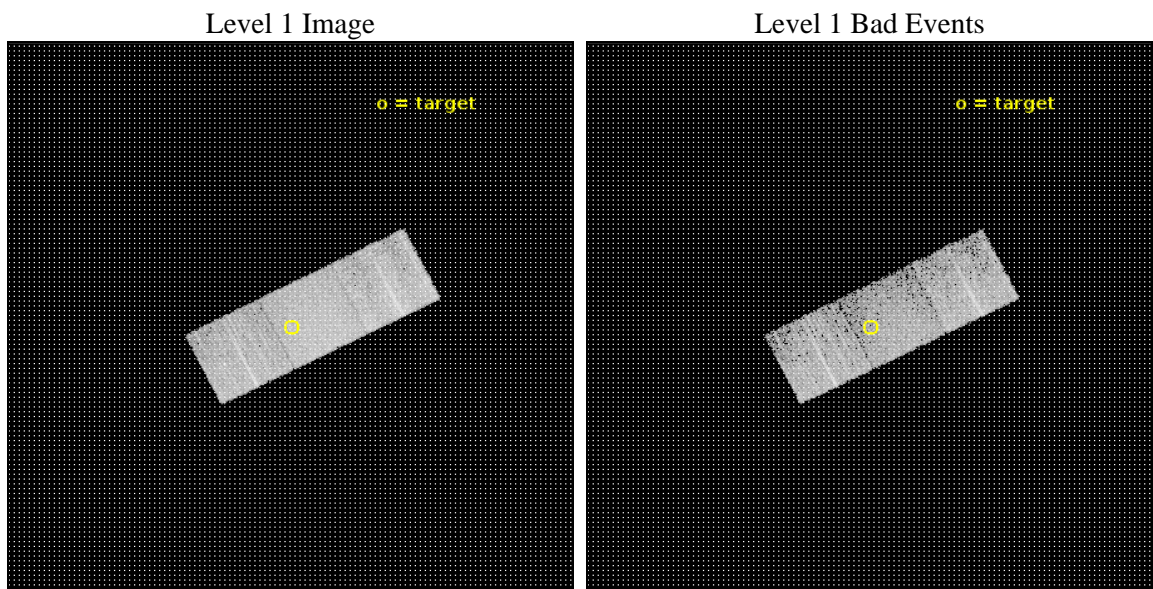
seq_num	703769	Sequence number
obs_id	21473	Observation id
title	RUNAWAY TIDAL CAPTURE IN NUCLEAR STAR CLUSTERS AS A FORMATION PATHWAY FOR MASSIVE BLACK HOLES	Proposal title
observer	Vivienne Baldassare	Principal investigator
object	NGC 1385	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	54.367917	Observer's specified target RA [deg]
dec_targ	-24.501278	Observer's specified target Dec [deg]
ra_nom	54.370975541744	Nominal RA [deg]
dec_nom	-24.498915344326	Nominal Dec [deg]
roll_nom	333.15778623615	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5108.8000394106	Sum of GTIs [s]
livetime	5042.0498058518	Livetime [s]
ontime6	5108.8000394106	Sum of GTIs [s]
ontime7	5108.8000394106	Sum of GTIs [s]
ontime8	5108.8000394106	Sum of GTIs [s]
l2events	28739	Number of level 2 events



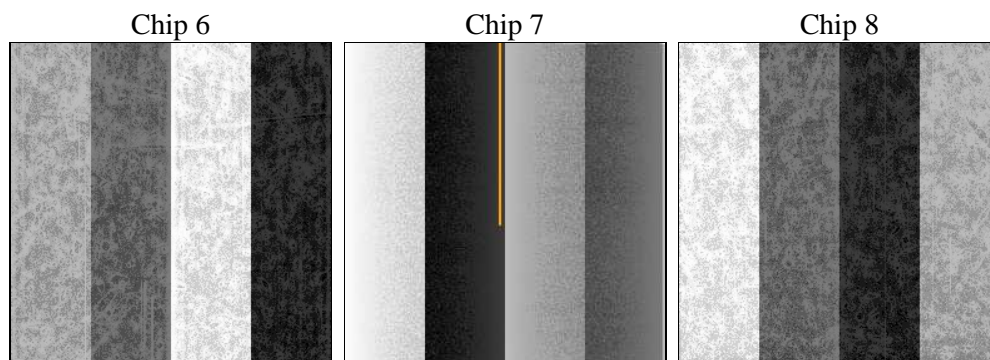
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	5108.8000394106	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime6	5108.8000394106	Sum of GTIs [s]
date	2018-12-07T10:28:50	Date and time of file creation	ontime7	5108.8000394106	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	5108.8000394106	Sum of GTIs [s]
			l1events	138664	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	40332	48996	49336
rejected events	35763	27884	37192
rejected %	88%	56%	75%

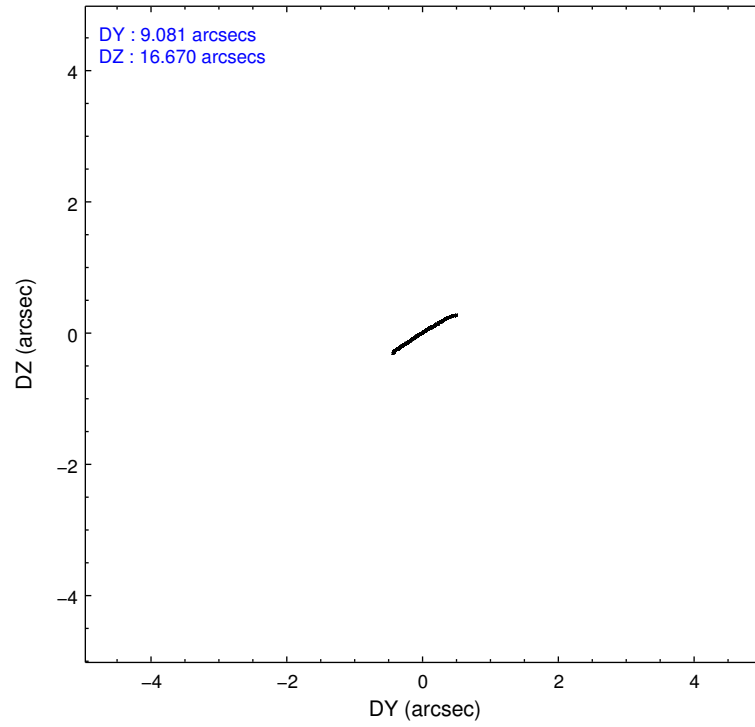
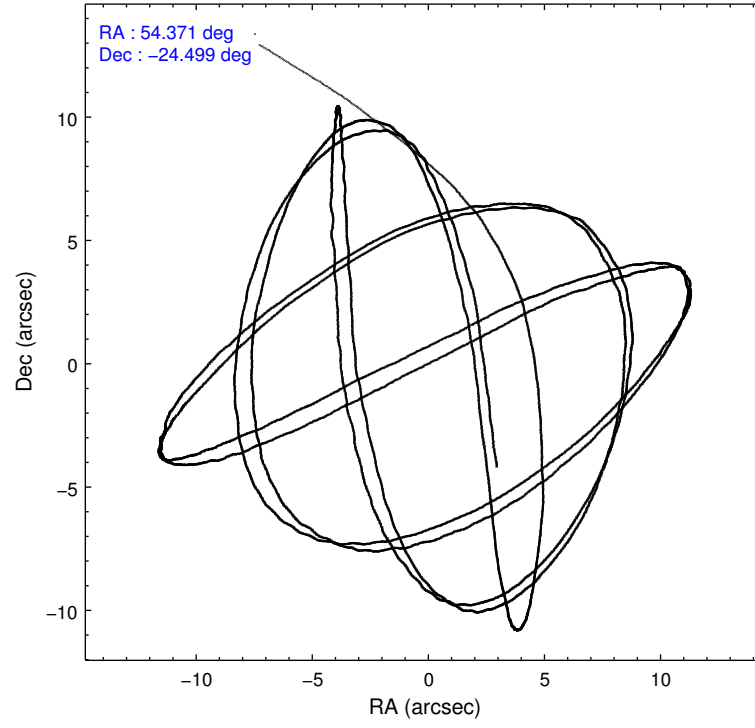
	ccd 6	ccd 7	ccd 8
grade 0 events	1527	1698	3228
	3%	3%	6%
grade 1 events	19	79	33
	0%	0%	0%
grade 2 events	1150	4270	3064
	2%	8%	6%
grade 3 events	404	1675	1254
	1%	3%	2%
grade 4 events	399	1608	1245
	0%	3%	2%
grade 5 events	1694	4735	2661
	4%	9%	5%
grade 6 events	1092	11871	3355
	2%	24%	6%
grade 7 events	34047	23060	34496
	84%	47%	69%

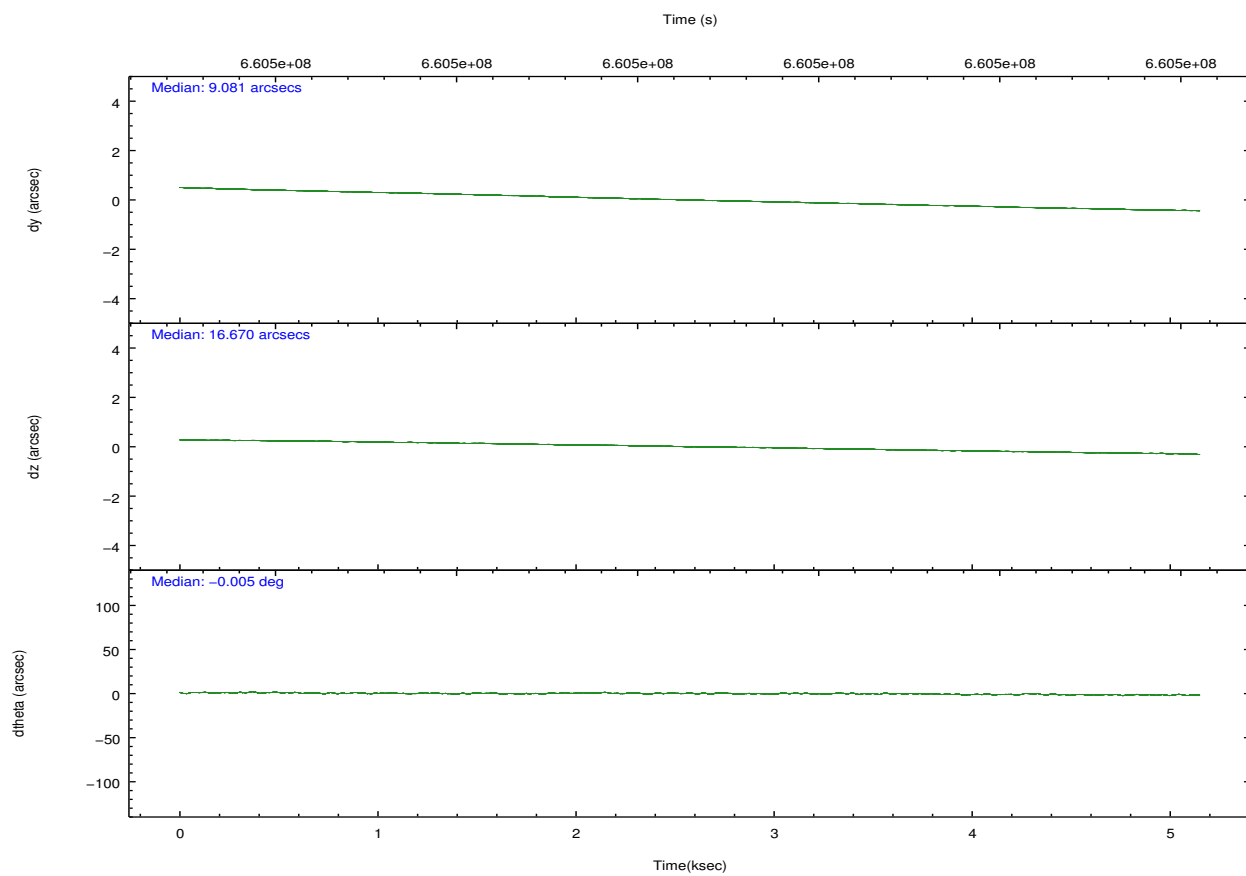
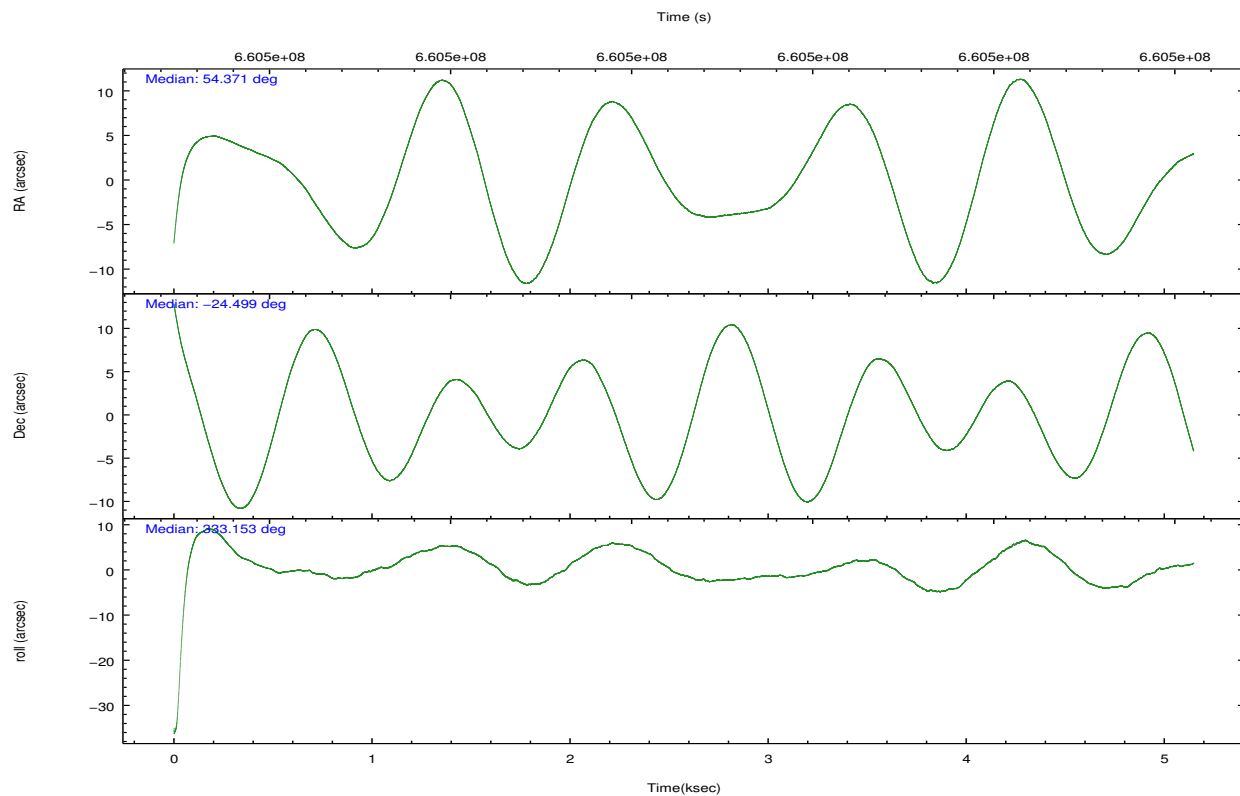
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	54.340855	54.37097554174354
[deg] Pointing Dec	-24.500857	-24.49891534432604
[deg] Pointing Roll	332.988781	333.1577862361477
[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)	660497869.184000	660496770.71899
Observation start date	2018-12-06T15:36:40	2018-12-06T15:19:30
[s] Observation end time (MET)	660502869.184000	660504314.2069401
Observation end date	2018-12-06T17:00:00	2018-12-06T17:25:14
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	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	O1	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



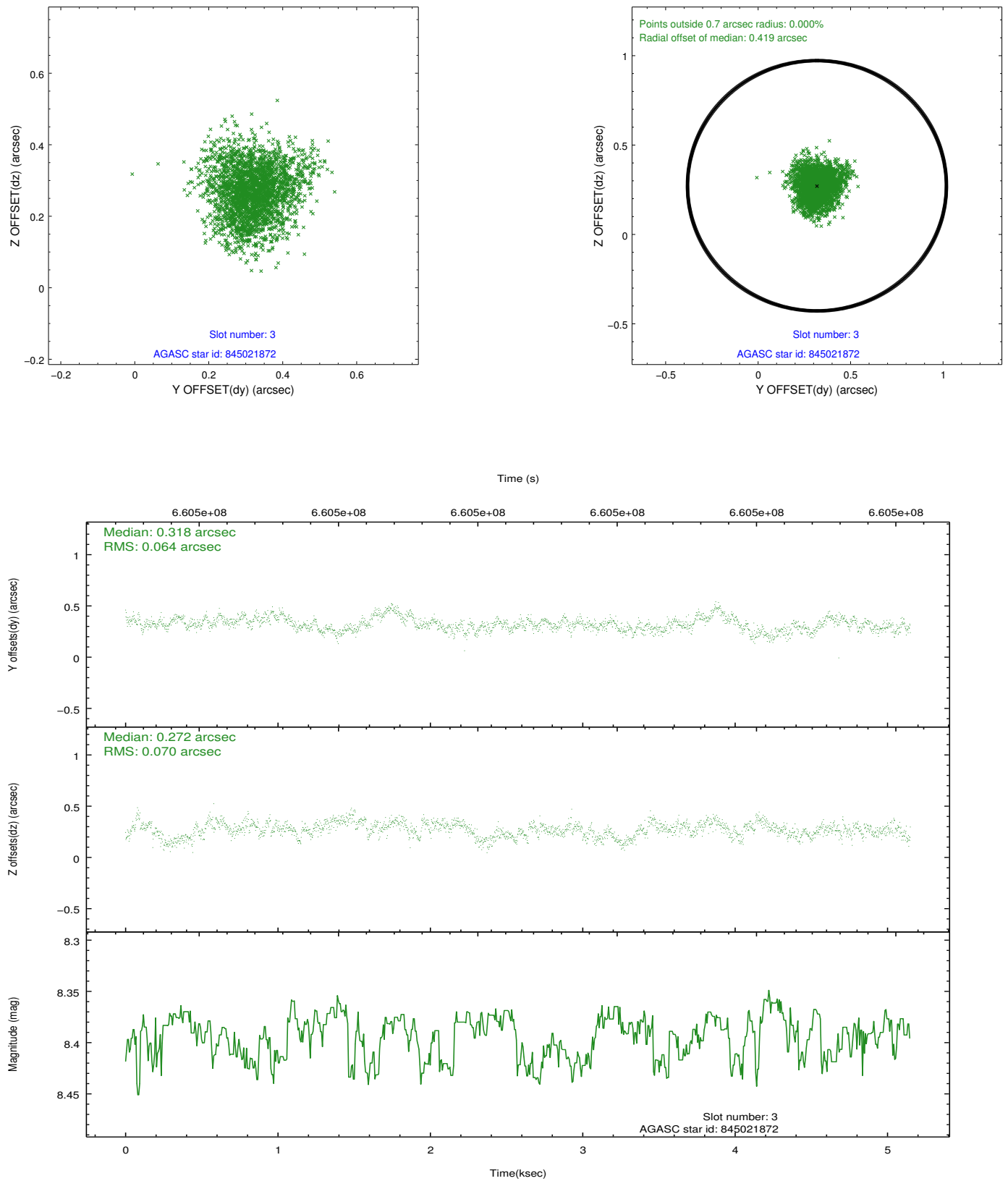


Slot Statistics

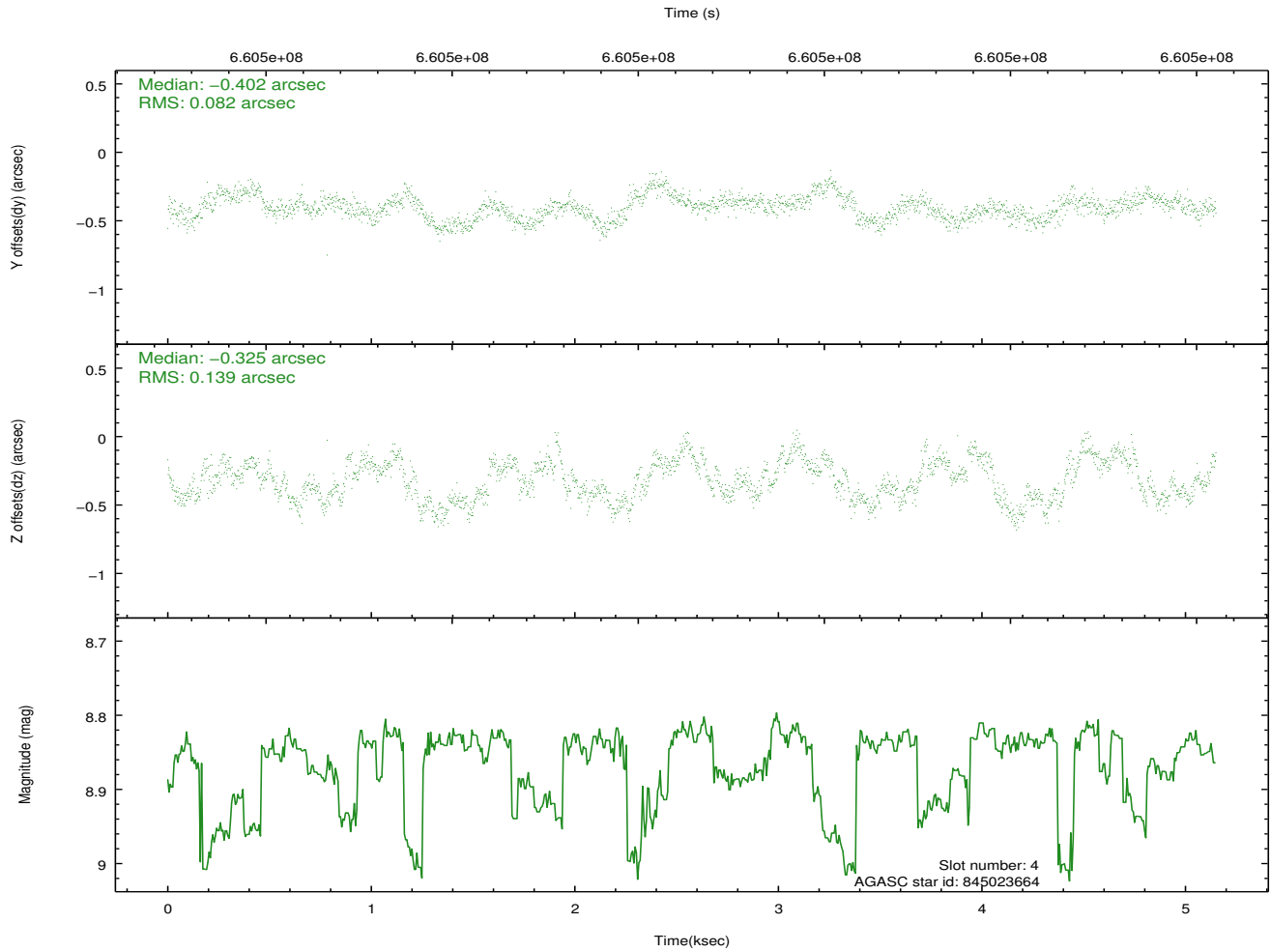
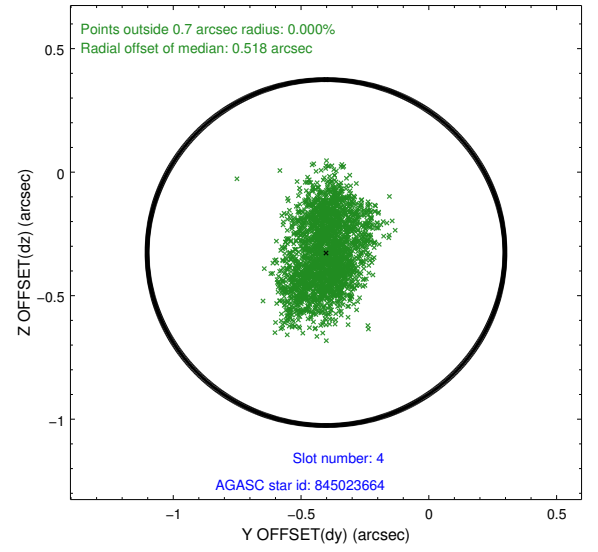
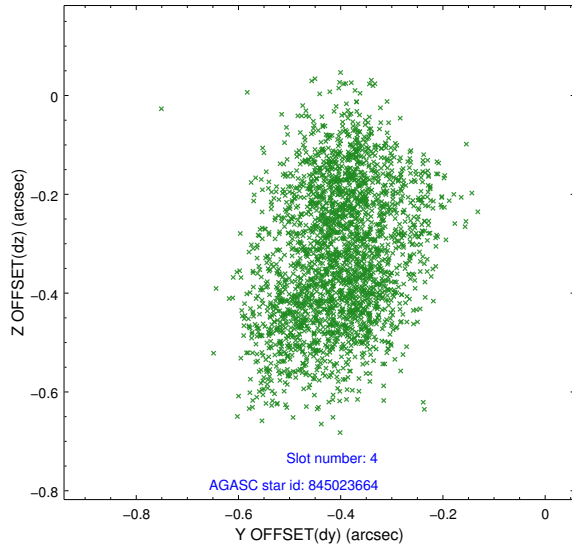
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	1256	1.000	-0.269	-0.176	0.013	0.020	0.000000	0.000000	-762.13	-1738
1	FID		ACIS-S-4	7.25	1256	1.000	0.674	0.176	0.018	0.030	0.000000	0.000000	2151.52	169
2	FID		ACIS-S-5	7.21	1256	1.000	-0.438	0.007	0.013	0.021	0.000000	0.000000	-1813.67	164
3	GUIDE	used	845021872	8.39	2511	1.000	0.318	0.272	0.102	0.166	53.823978	-24.896153	-854.79	-2037
4	GUIDE	used	845023664	8.85	2512	1.000	-0.402	-0.325	0.176	0.269	54.749593	-24.087847	522.58	1932
5	GUIDE	used	845025416	8.80	2511	1.000	-0.112	-0.328	0.100	0.159	55.076463	-24.517755	2176.21	1036
6	GUIDE	used	845026496	7.32	2513	1.000	0.021	0.370	0.114	0.181	53.765658	-24.307320	-1994.86	-238
7	GUIDE	used	845027080	8.97	2510	1.000	0.171	-0.005	0.131	0.220	54.123172	-24.962599	121.94	-1806

2.4 Star Slots

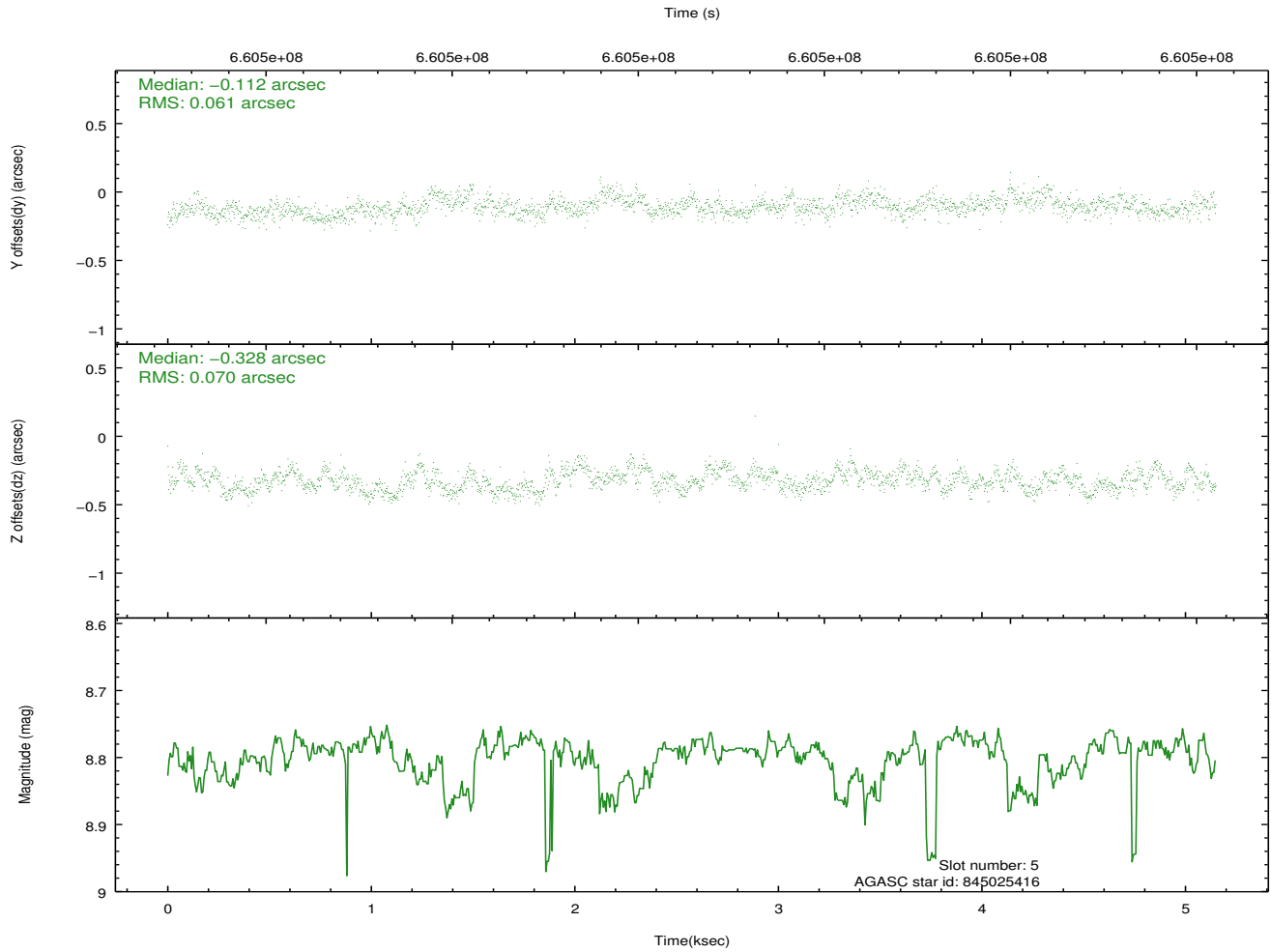
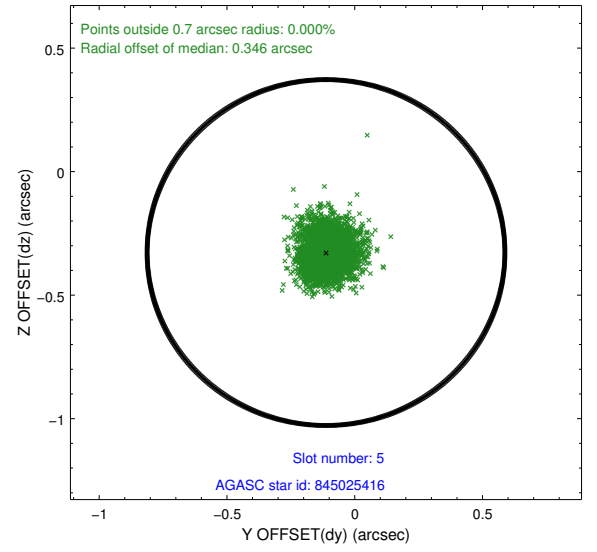
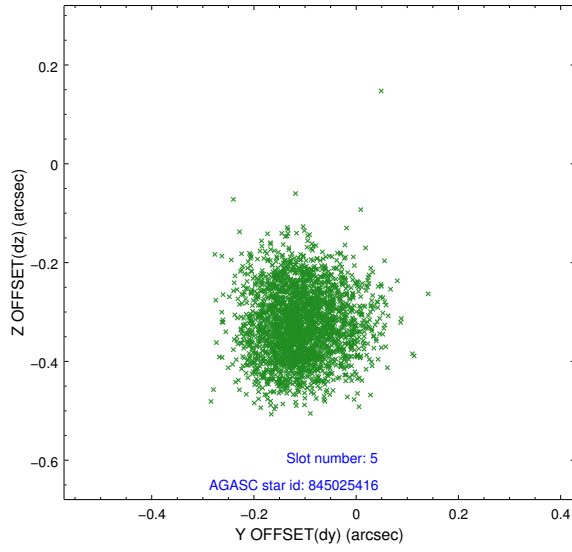
2.4.1 Slot 3



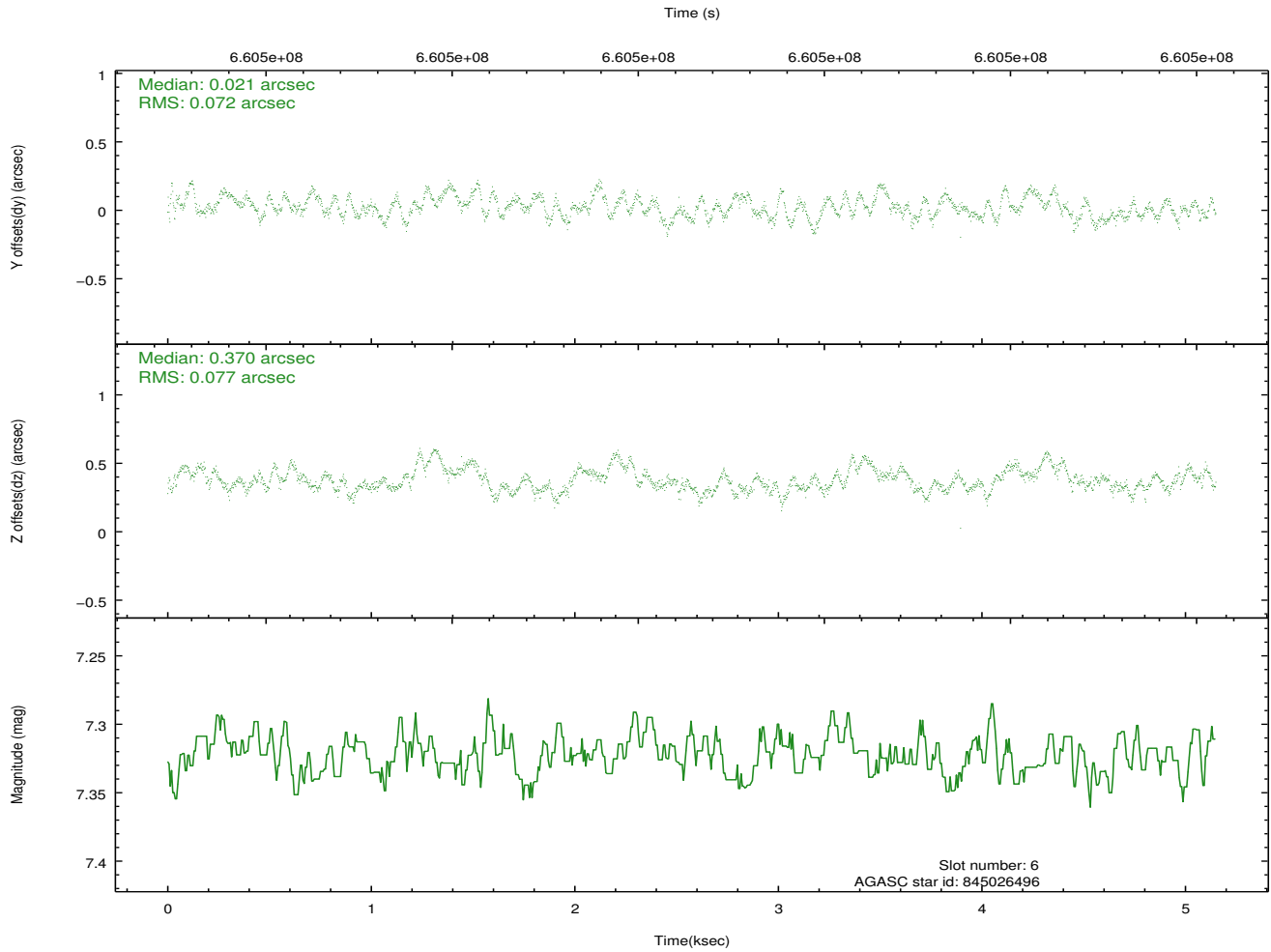
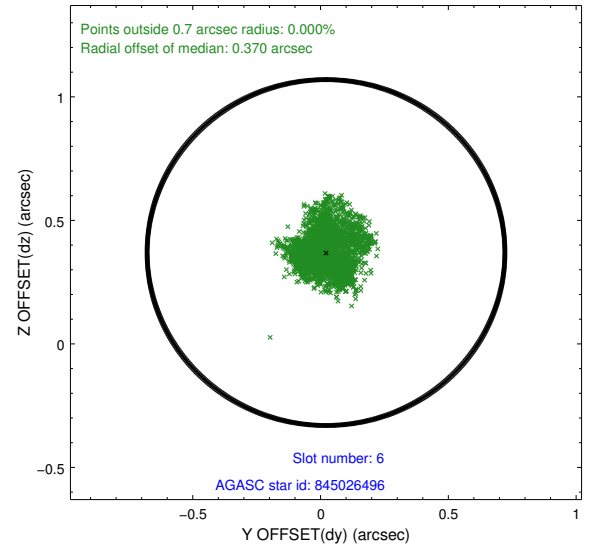
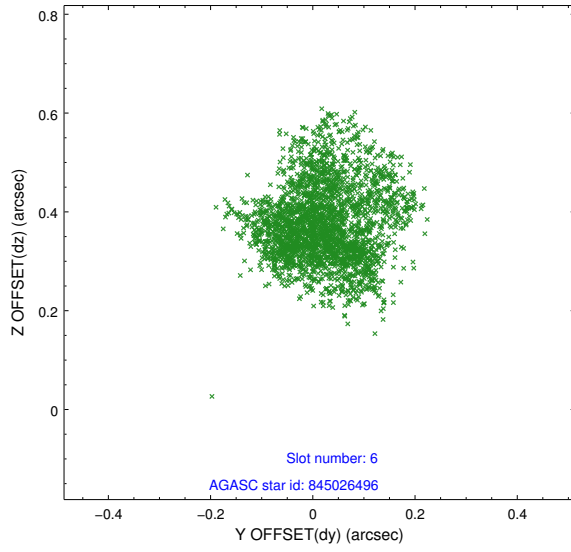
2.4.2 Slot 4



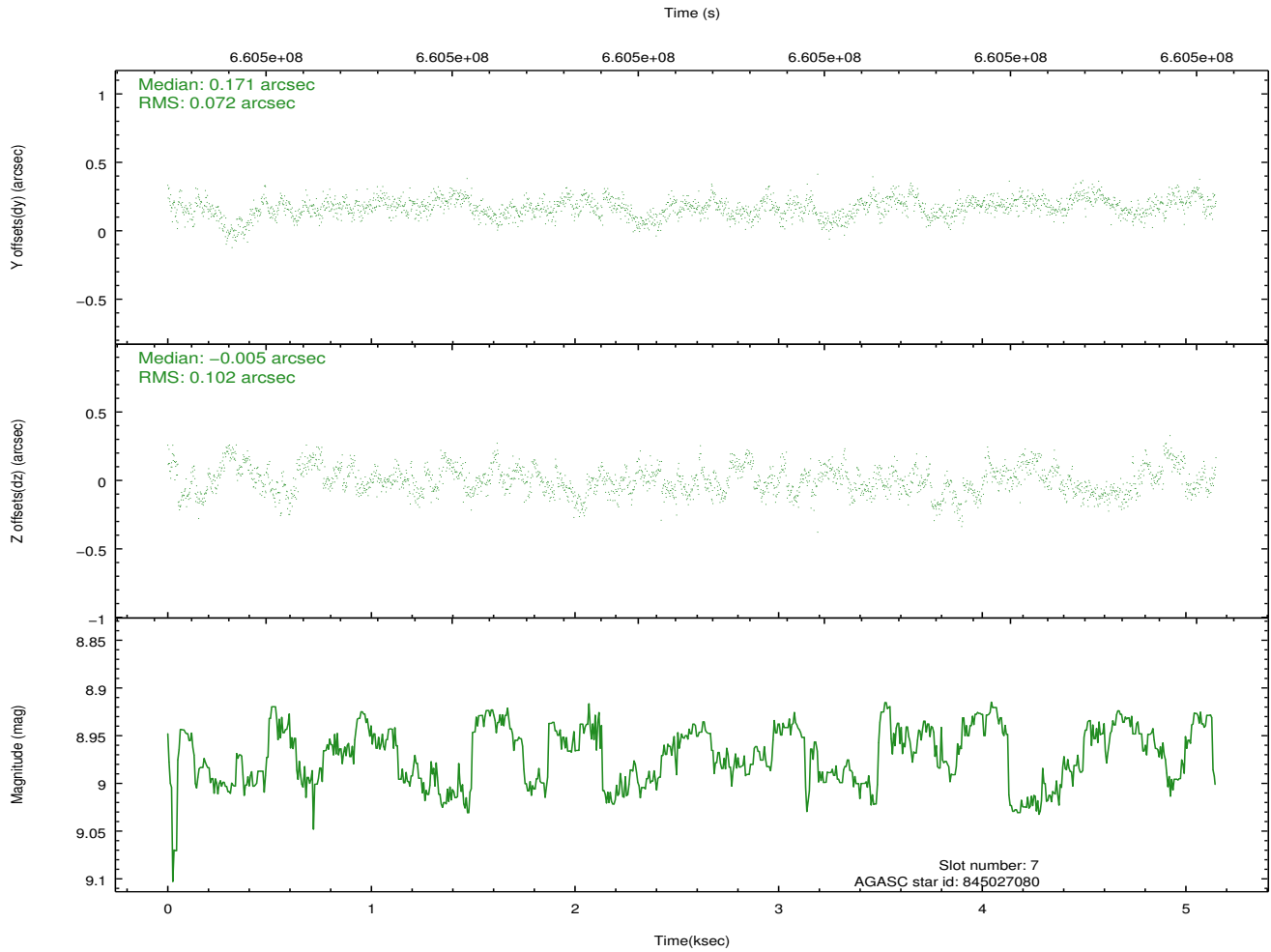
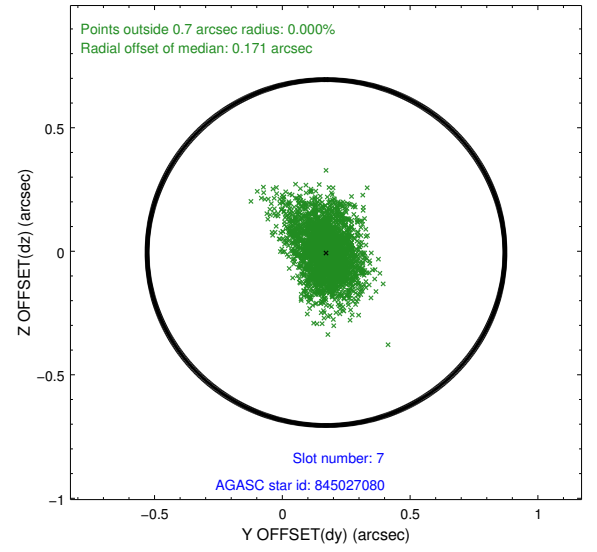
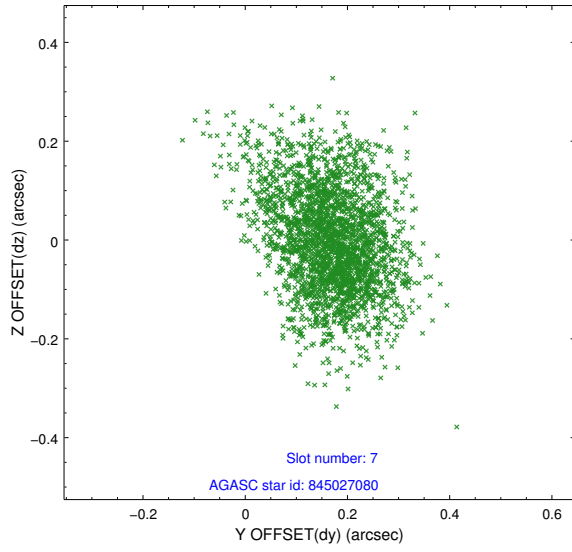
2.4.3 Slot 5



2.4.4 Slot 6

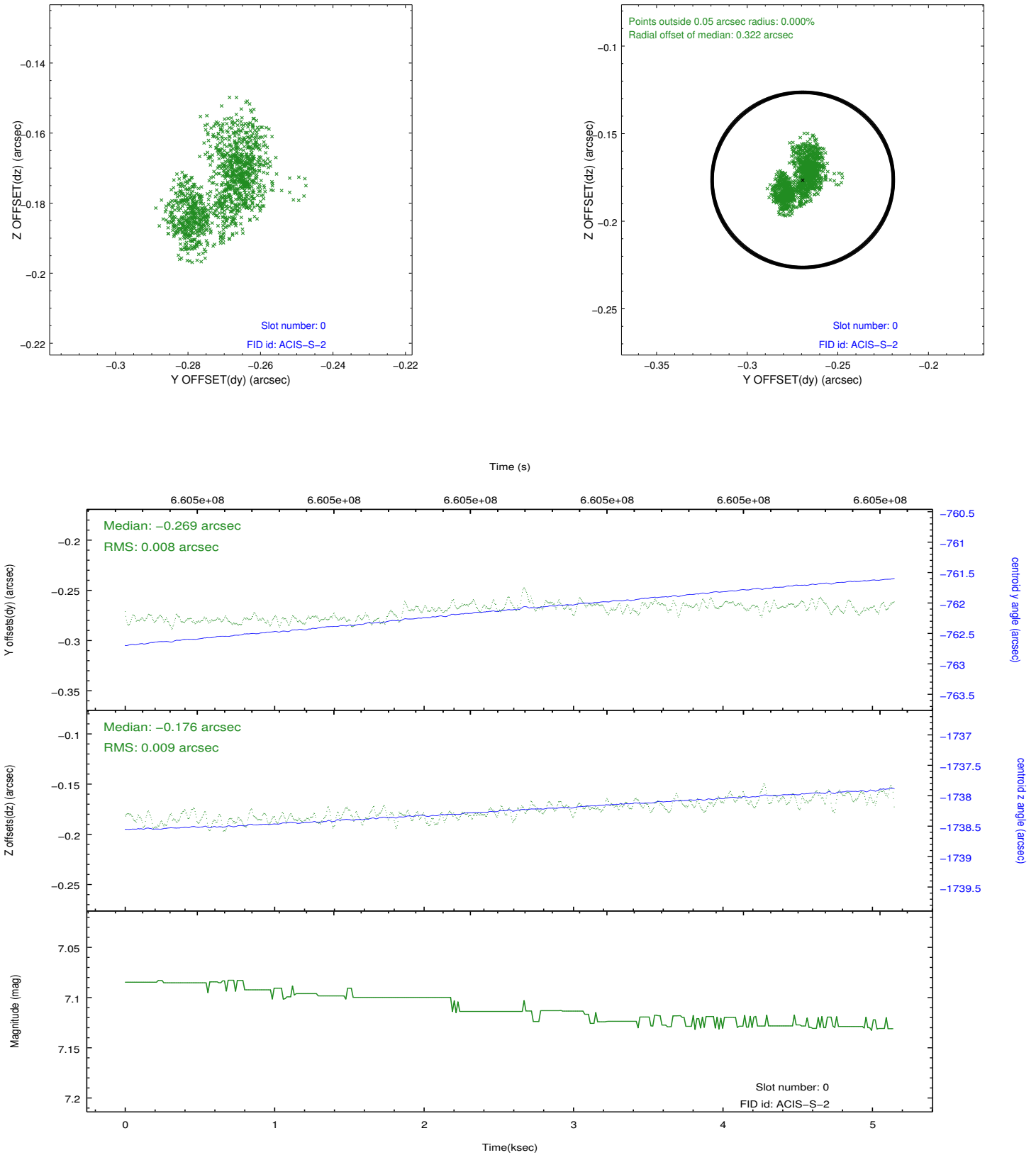


2.4.5 Slot 7

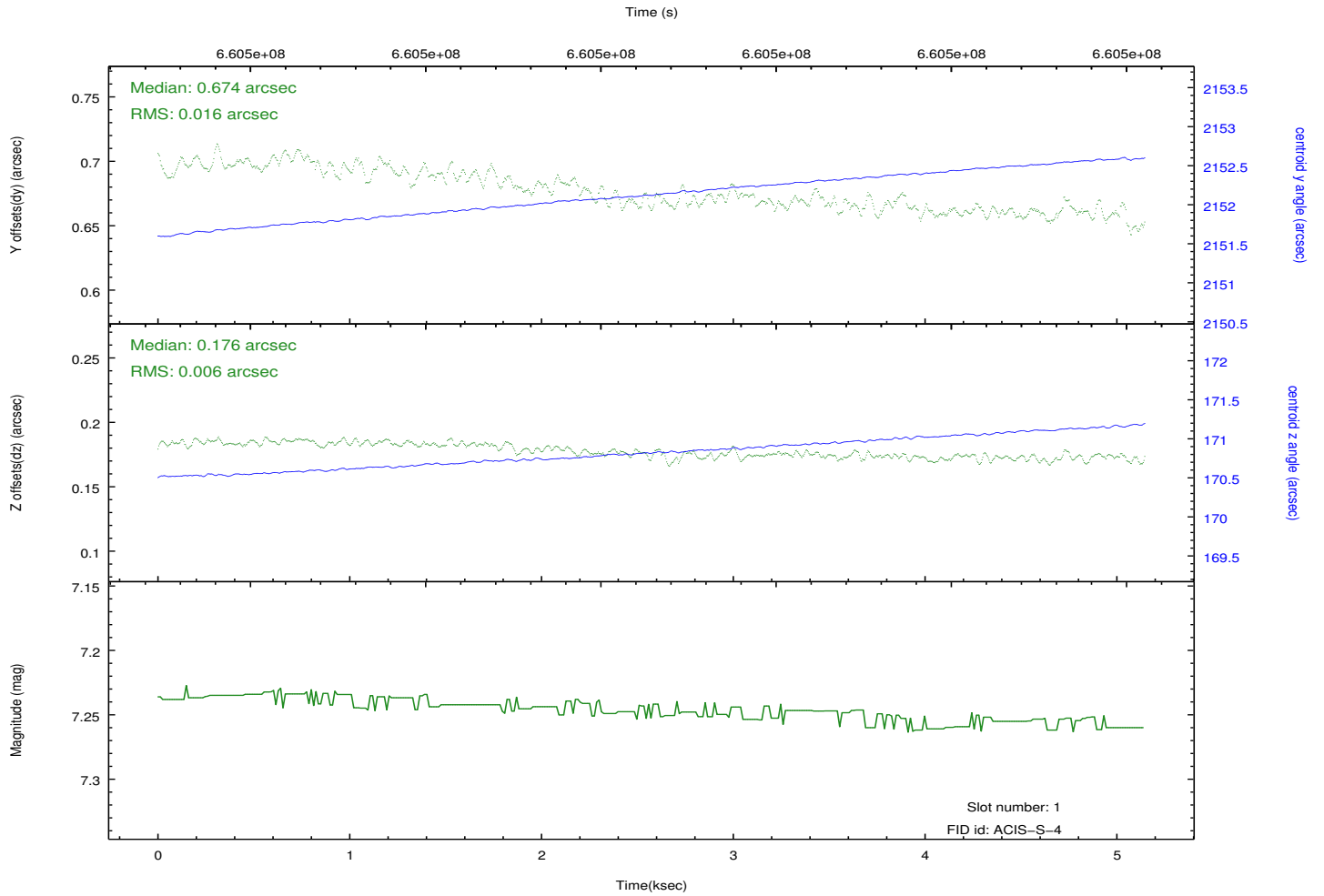
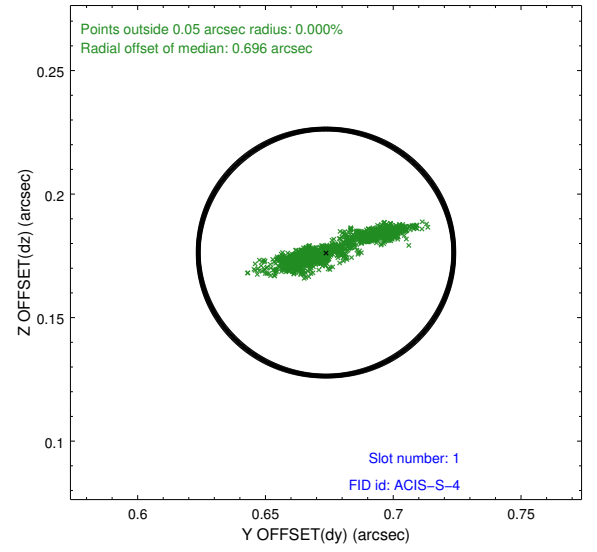
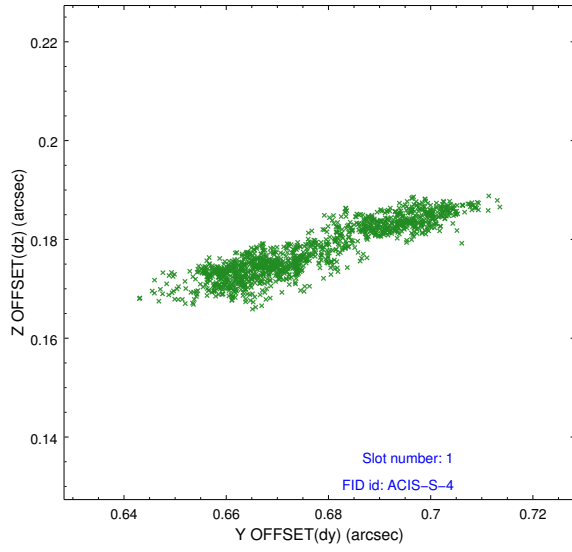


2.5 FID Slots

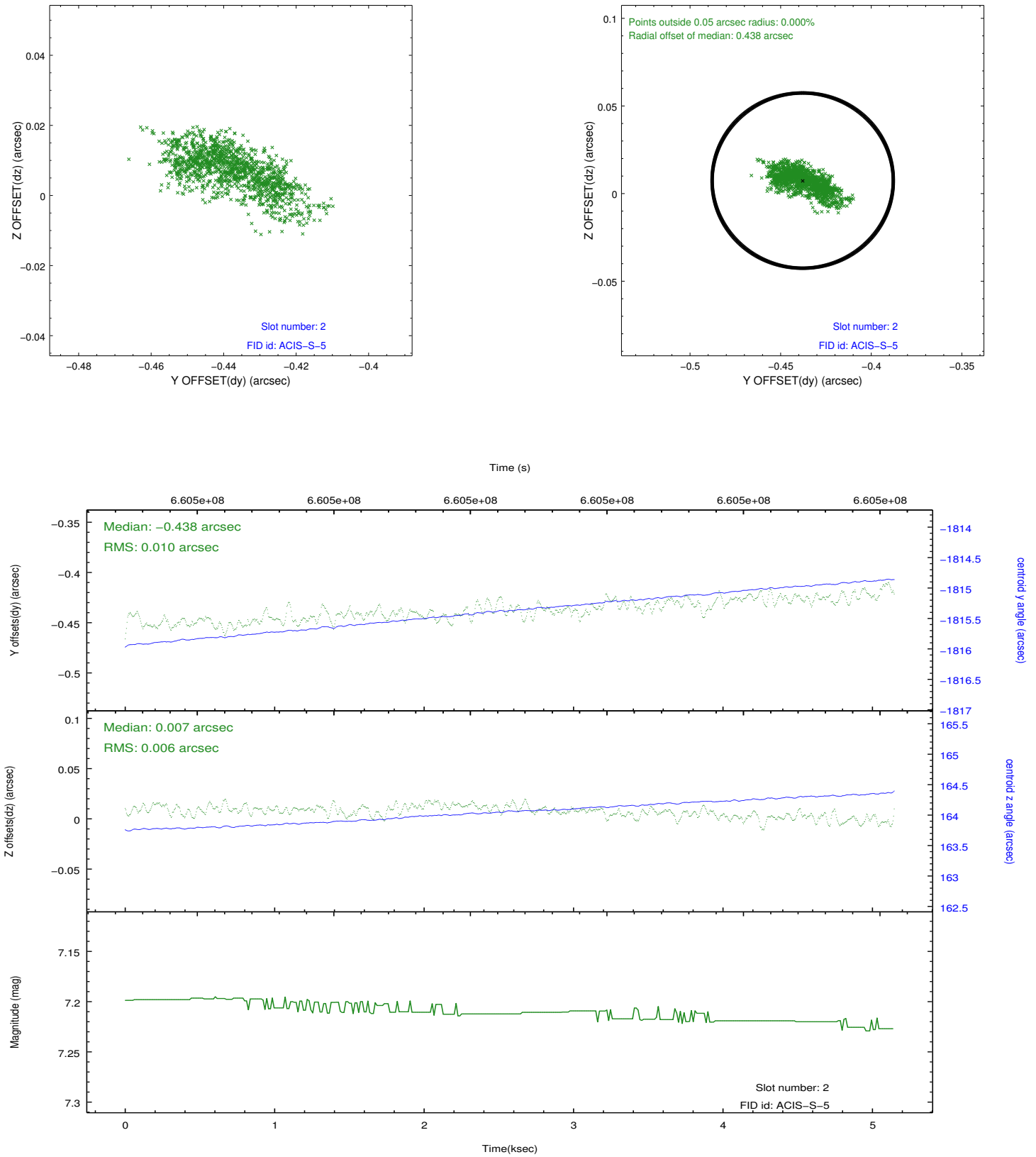
2.5.1 Slot 0



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)	2018.12.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1088000394106

A.2 Comments