

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19313 - L2 Version 1
Chandra X-Ray Center

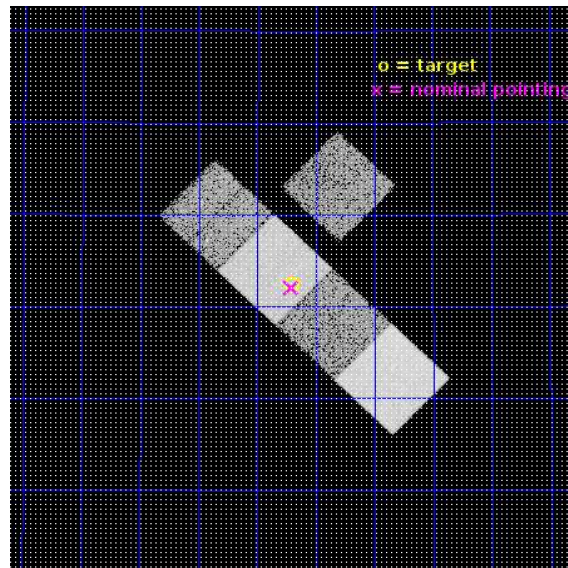
L2 Processing Date : Nov 25 2016

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1 Front

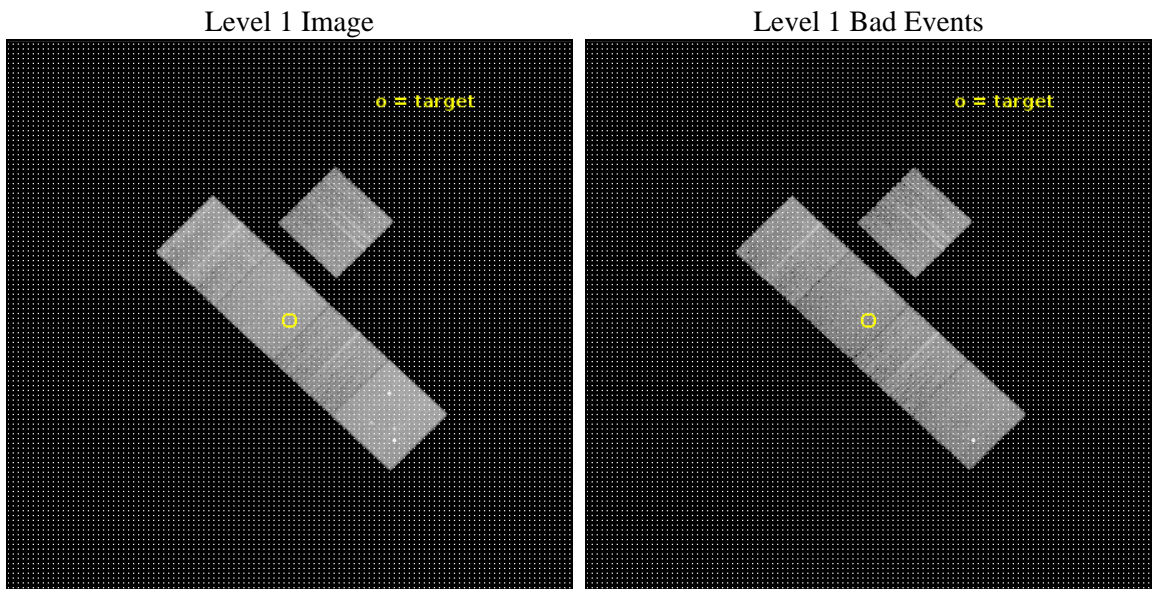
seq_num	601270	Sequence number
obs_id	19313	Observation id
title	A homogeneous view of X-ray halos in massive early-type galaxies	P
observer	Andy Goulding	Principal investigator
object	NGC1167	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	45.426667	Observer's specified target RA [deg]
dec_targ	35.205833	Observer's specified target Dec [deg]
ra_nom	45.427390744012	Nominal RA [deg]
dec_nom	35.201008207495	Nominal Dec [deg]
roll_nom	224.15618883153	Nominal Roll [deg]
revision	1	Processing version of data
ontime	13050.744003415	Sum of GTIs [s]
livetime	12880.226425193	Livetime [s]
ontime3	13050.620883465	Sum of GTIs [s]
ontime5	13050.702963471	Sum of GTIs [s]
ontime6	13050.661923409	Sum of GTIs [s]
ontime7	13050.744003415	Sum of GTIs [s]
ontime8	13047.438793182	Sum of GTIs [s]
l2events	138664	Number of level 2 events



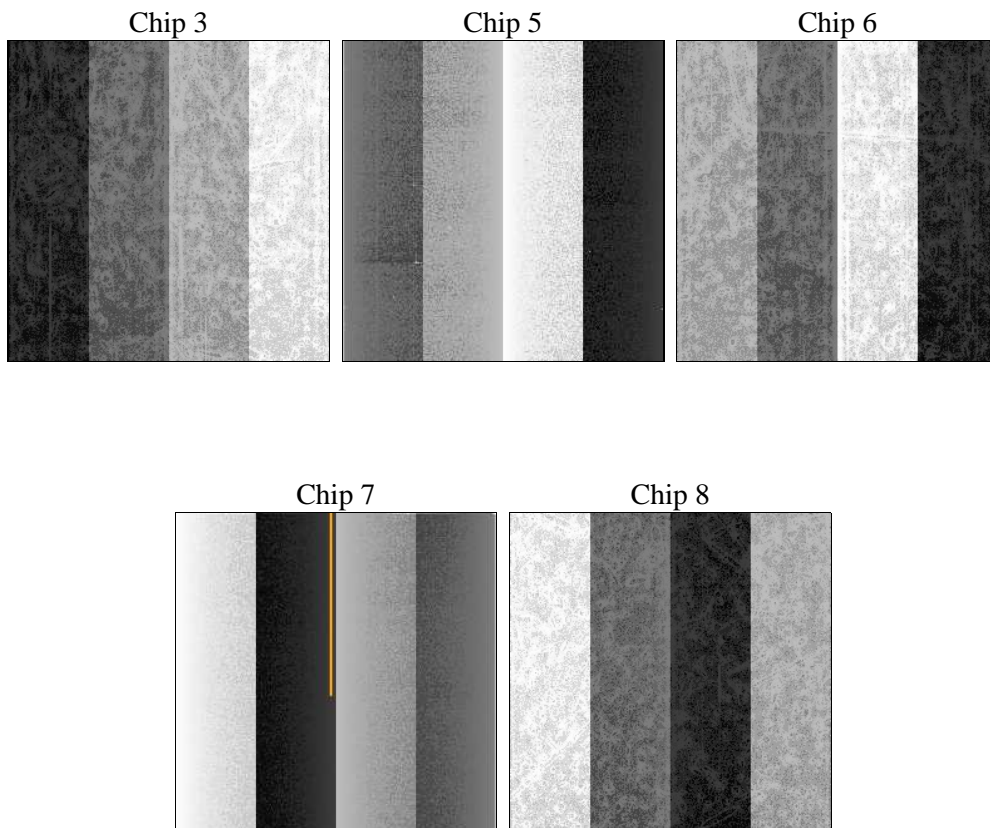
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	13000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	13050.744003415	Sum of GTIs [s]
caldsver	4.7.2	 	ontime3	13050.620883465	Sum of GTIs [s]
date	2016-11-25T17:33:35	Date and time of file creation	ontime5	13050.702963471	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	13050.661923409	Sum of GTIs [s]
			ontime7	13050.744003415	Sum of GTIs [s]
			ontime8	13047.438793182	Sum of GTIs [s]
			l1events	547355	Number of level 1 events

2.1.4 Events

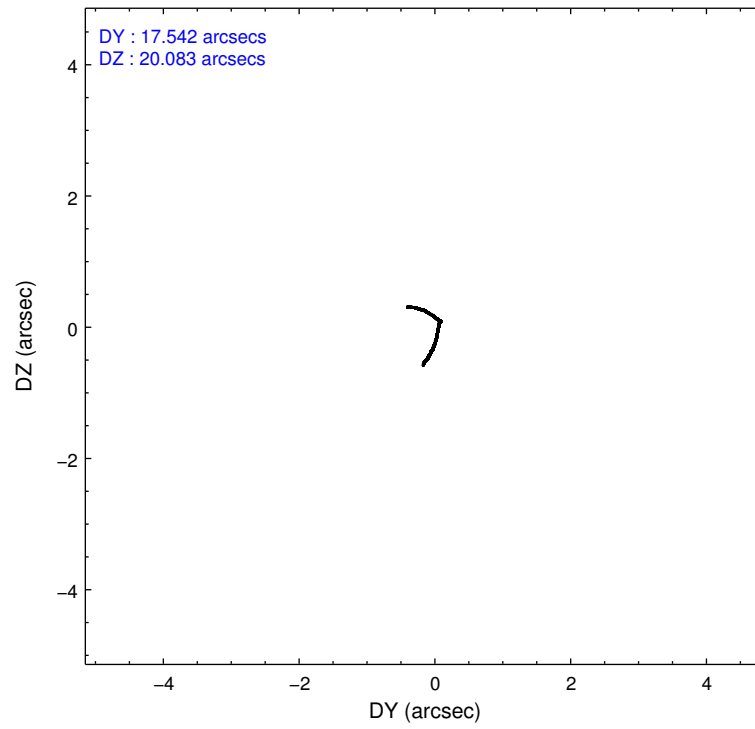
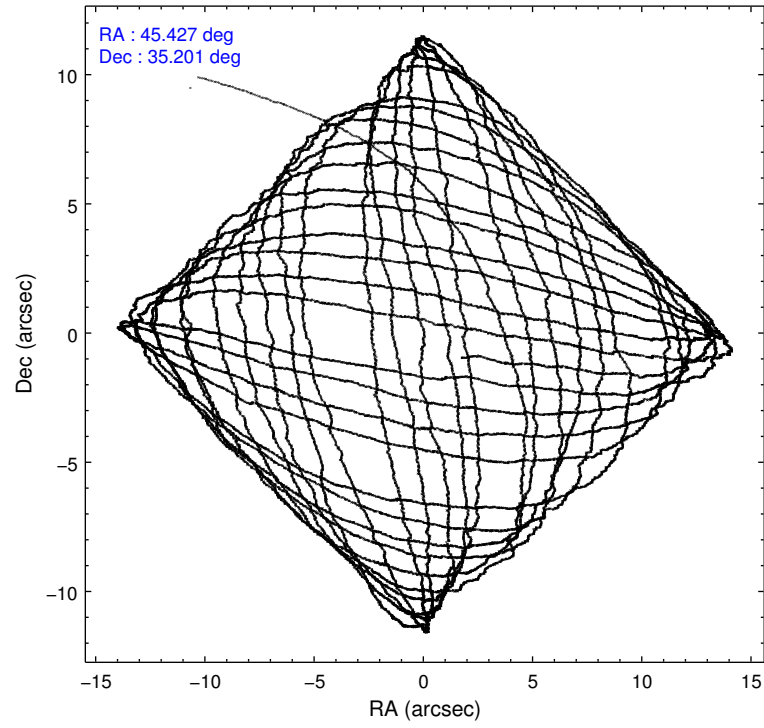
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	85419	146040	86447	113198	116251
rejected events	76372	75659	76448	64216	83374
rejected %	89%	51%	88%	56%	71%

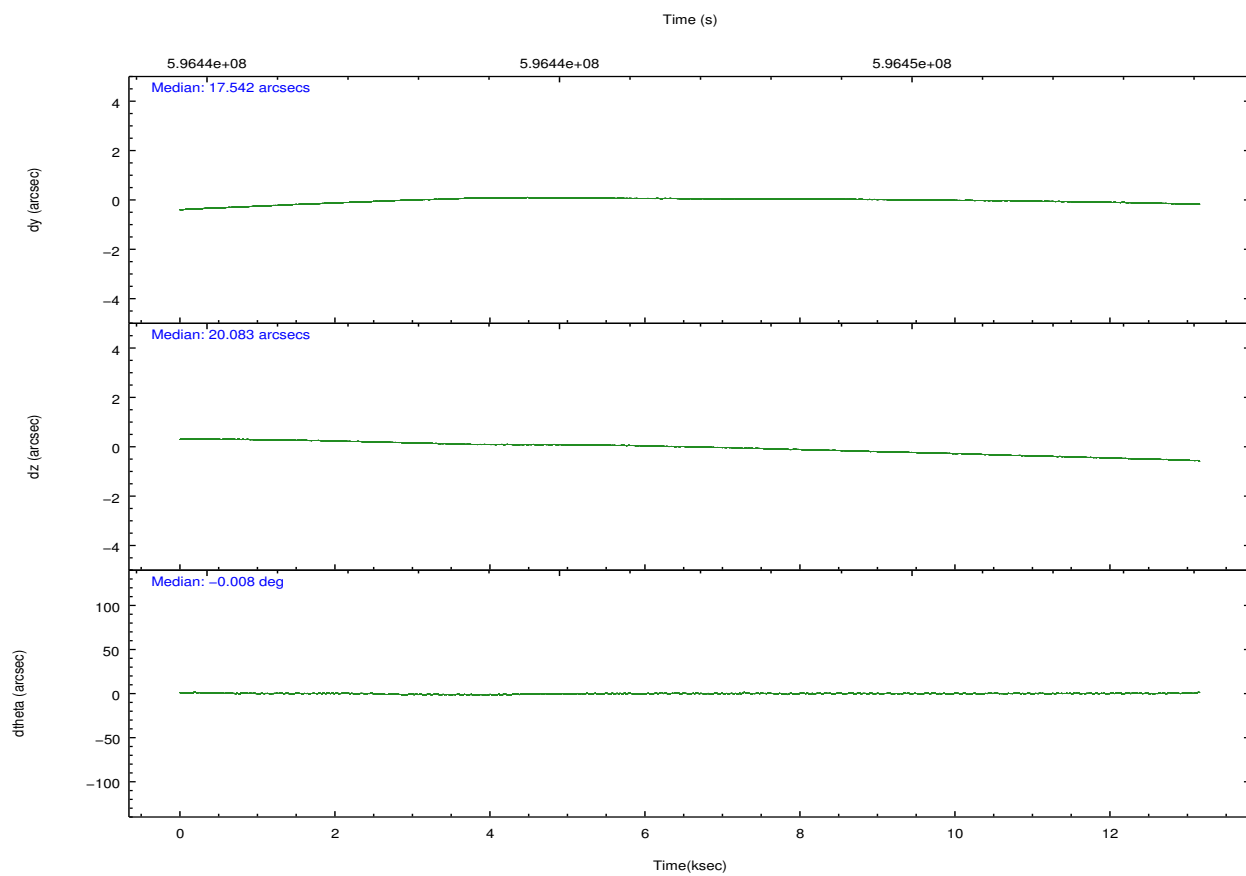
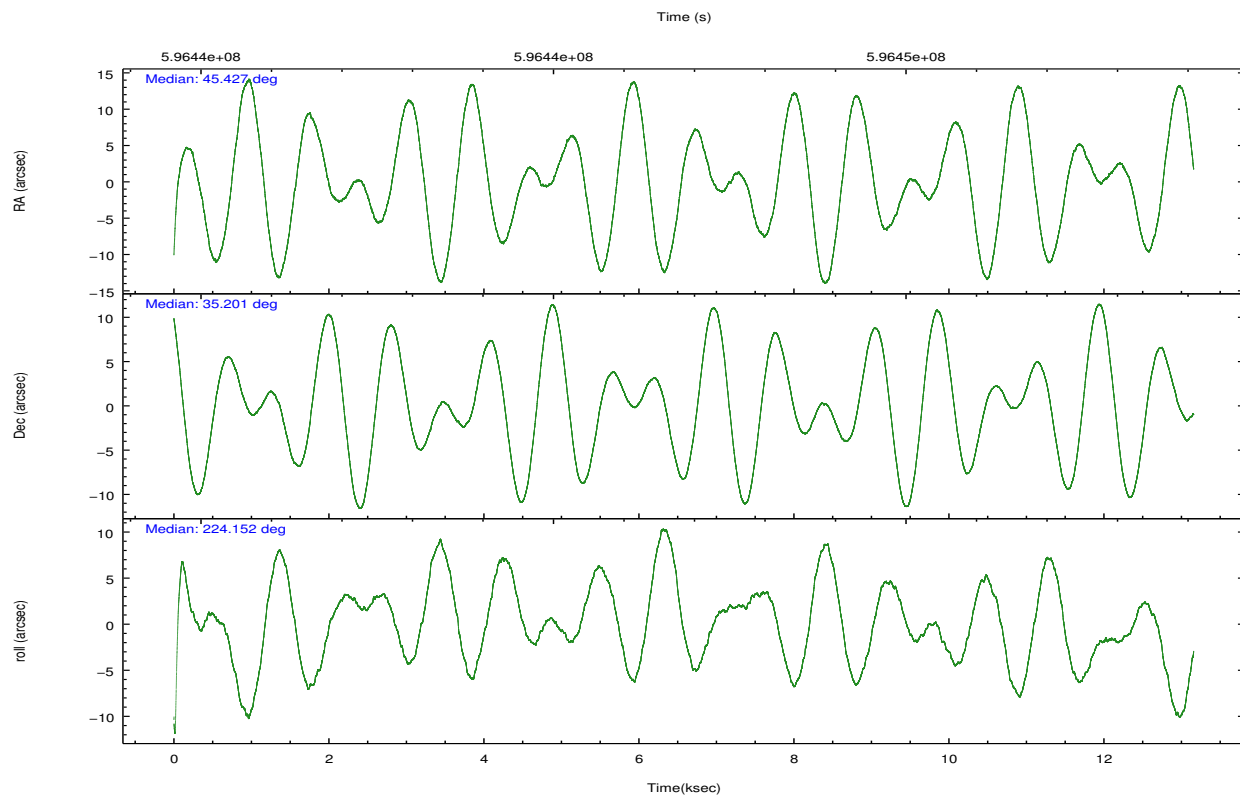
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	3179	8506	3301	4158	9464
	3%	5%	3%	3%	8%
grade 1 events	54	298	57	160	93
	0%	0%	0%	0%	0%
grade 2 events	2110	20997	2336	10219	7870
	2%	14%	2%	9%	6%
grade 3 events	930	2252	995	4127	3531
	1%	1%	1%	3%	3%
grade 4 events	946	2115	1044	4180	3214
	1%	1%	1%	3%	2%
grade 5 events	4291	10126	4265	11638	6255
	5%	6%	4%	10%	5%
grade 6 events	1885	36528	2323	26308	8809
	2%	25%	2%	23%	7%
grade 7 events	72024	65218	72126	52408	77015
	84%	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-35678	ACIS-35678	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	45.436091	45.42739074401179	CCD I2 on	O1	N
[deg] Pointing Dec	35.227520	35.20100820749526	CCD I3 on	O2	Y
[deg] Pointing Roll	223.994567	224.1561888315337	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	596440444.184000	596439225.31725	CCD S5 on	N	N
Observation start date	2016-11-25T05:52:56	2016-11-25T05:33:45	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	596453444.184000	596454460.40563	On-chip summing requested	N	N
Observation end date	2016-11-25T09:29:36	2016-11-25T09:47:40	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



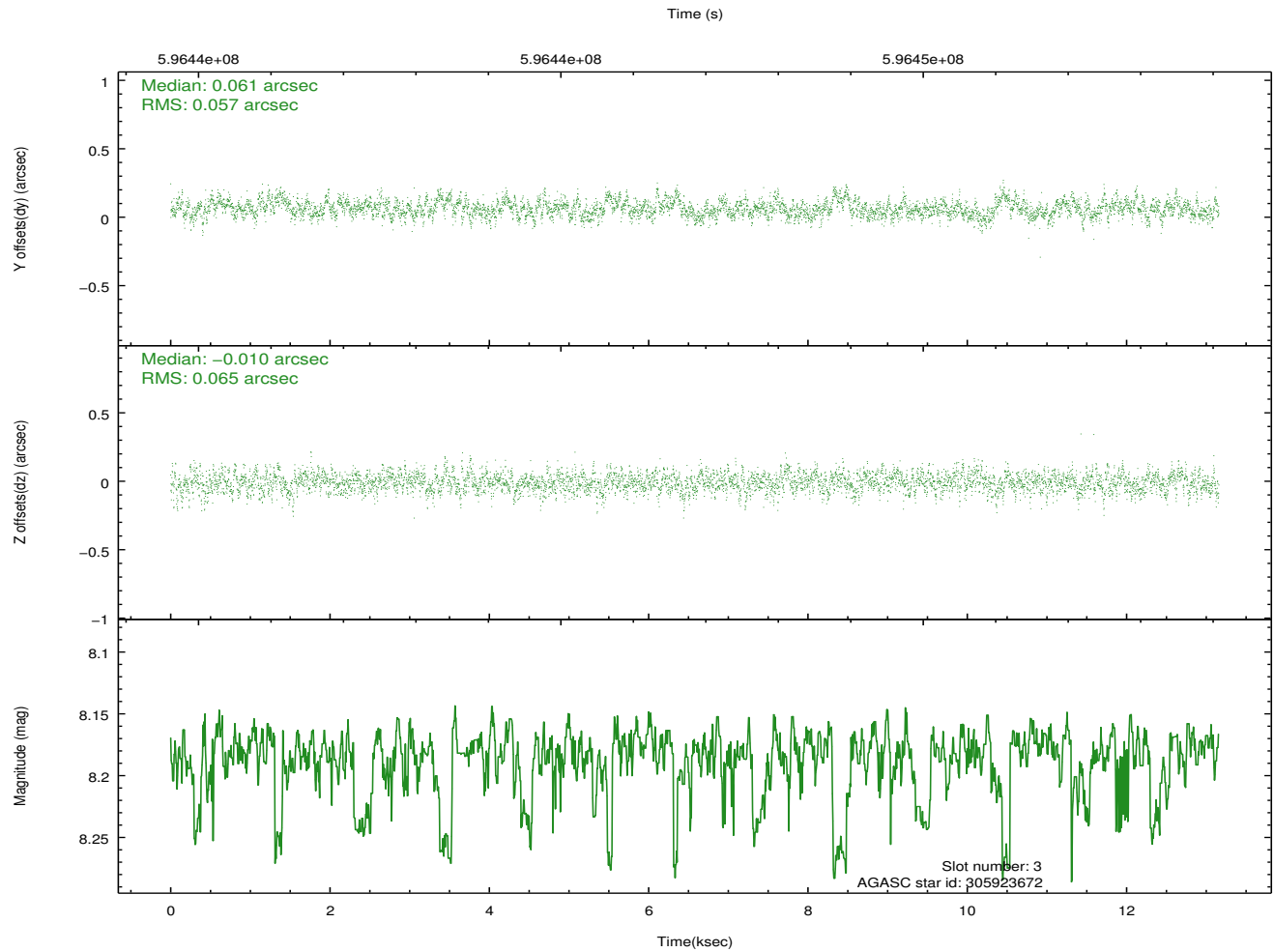
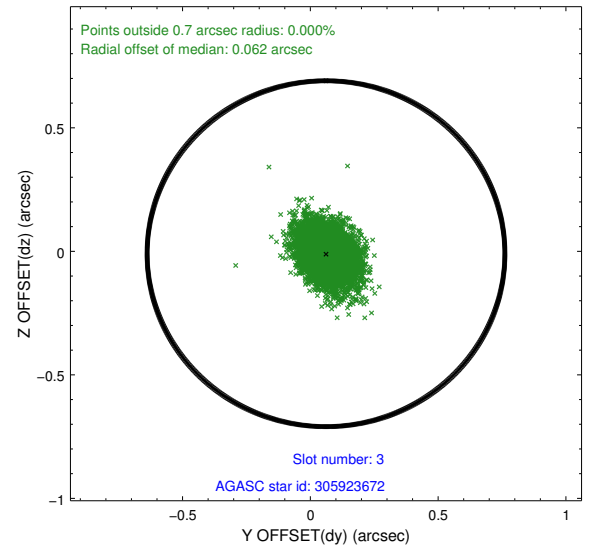
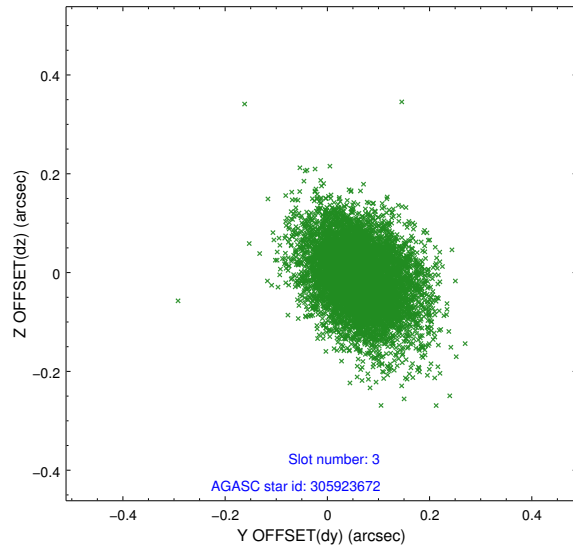


Slot Statistics

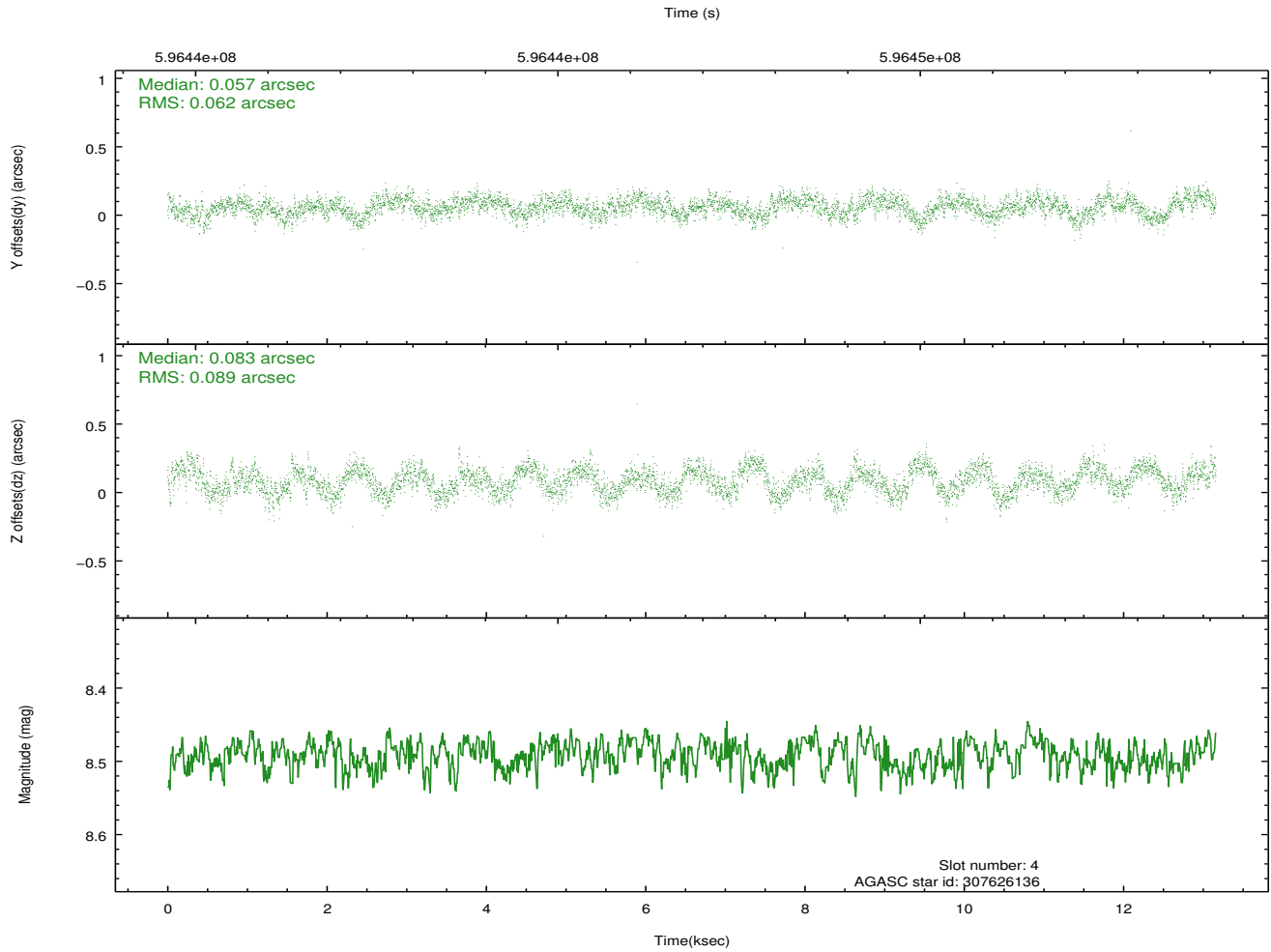
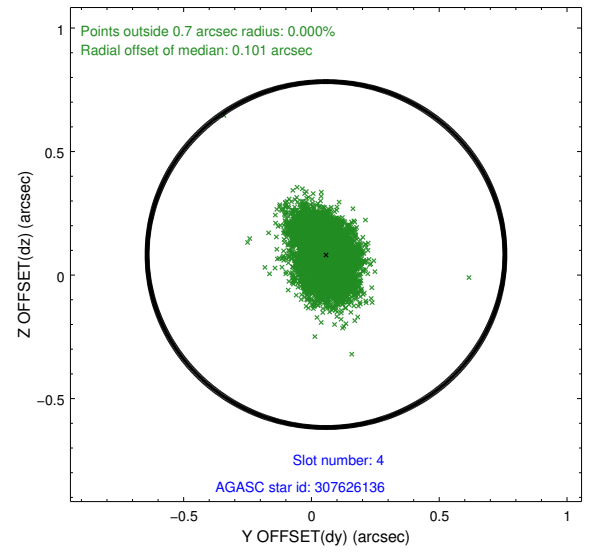
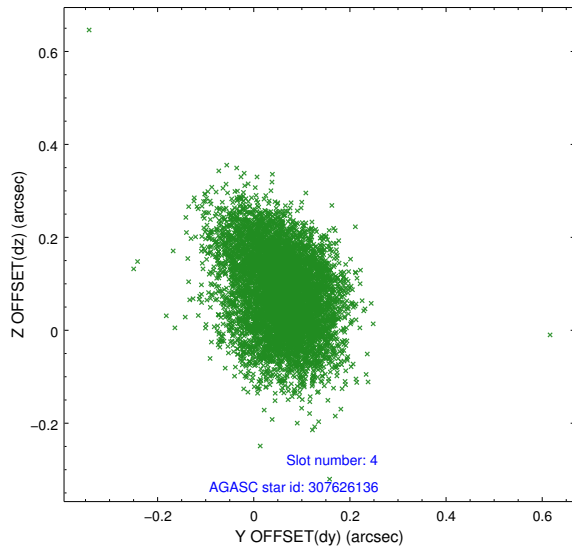
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.02	3210	0.036	-0.054	0.016	0.027	0.000000	0.000000	925.60	-1737.19
1	FID		ACIS-S-4	7.04	3210	0.324	0.025	0.014	0.022	0.000000	0.000000	2143.41	166.72
2	FID		ACIS-S-5	7.03	3210	-0.387	0.041	0.010	0.018	0.000000	0.000000	-1823.31	160.57
3	GUIDE	used	305923672	8.18	6418	0.061	-0.010	0.091	0.151	44.893030	35.326249	897.89	-1363.66
4	GUIDE	used	307626136	8.49	6417	0.057	0.083	0.114	0.184	46.076477	35.572818	-2215.73	403.45
5	GUIDE	used	307629296	8.93	6416	-0.254	-0.351	0.190	0.286	45.300521	34.418698	2311.67	1815.50
6	GUIDE	used	307631352	9.10	6408	-0.130	-0.188	0.129	0.218	46.277351	34.971832	-1152.90	2378.49
7	GUIDE	used	308157648	8.38	6415	0.290	0.462	0.243	0.334	45.248684	36.010530	-1565.12	-2406.59

2.4 Star Slots

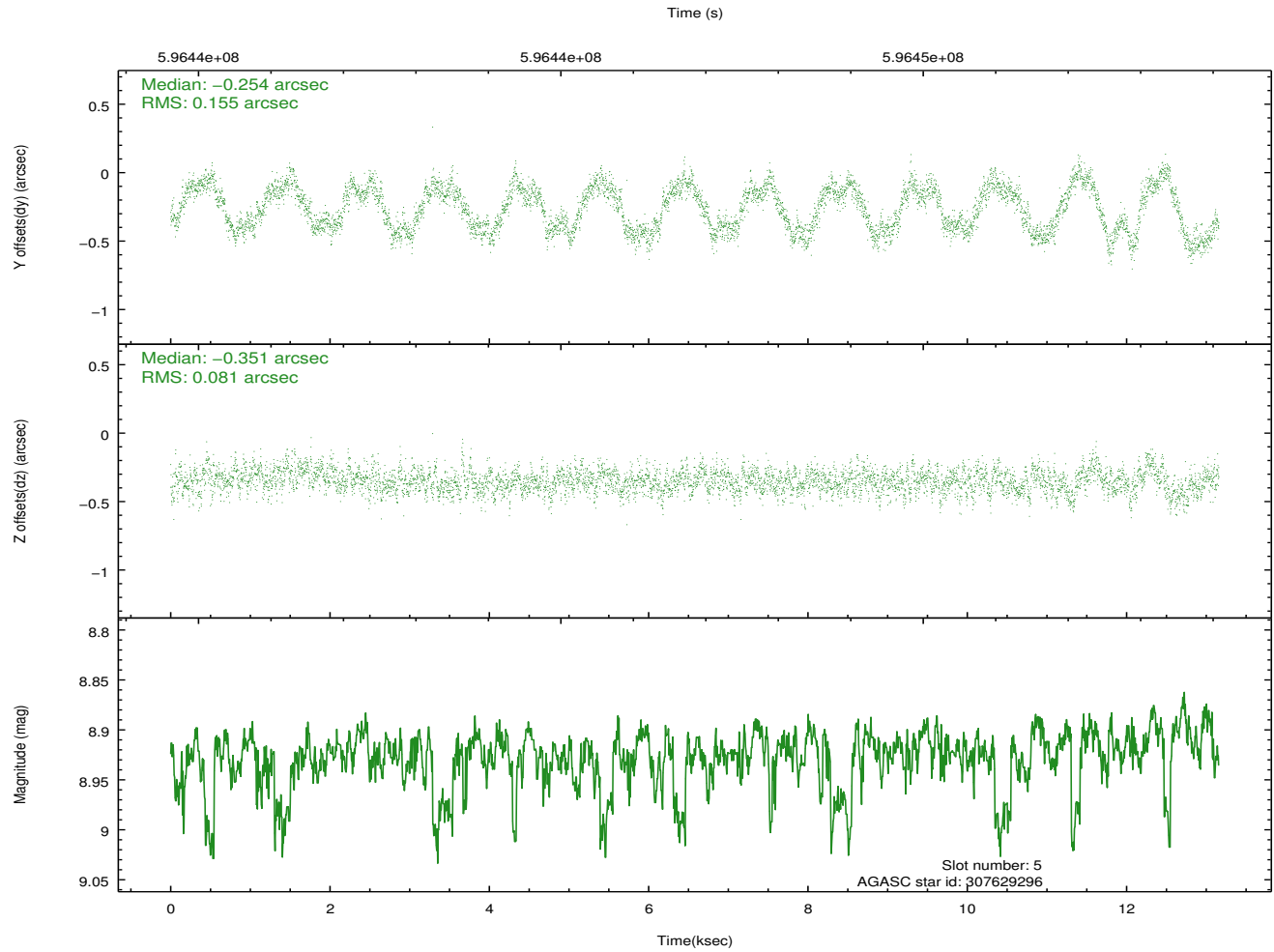
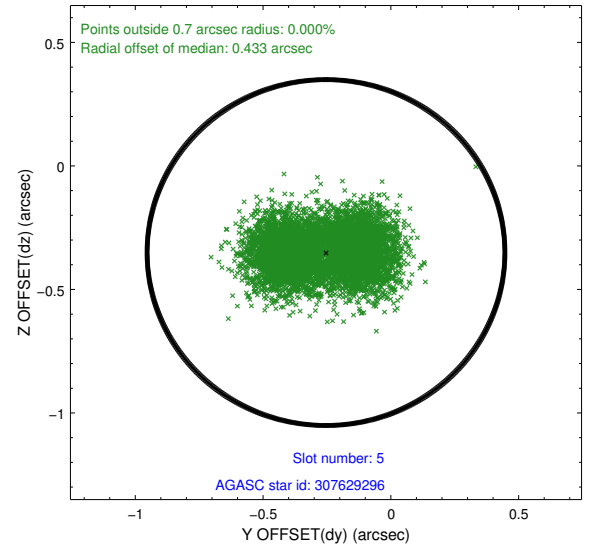
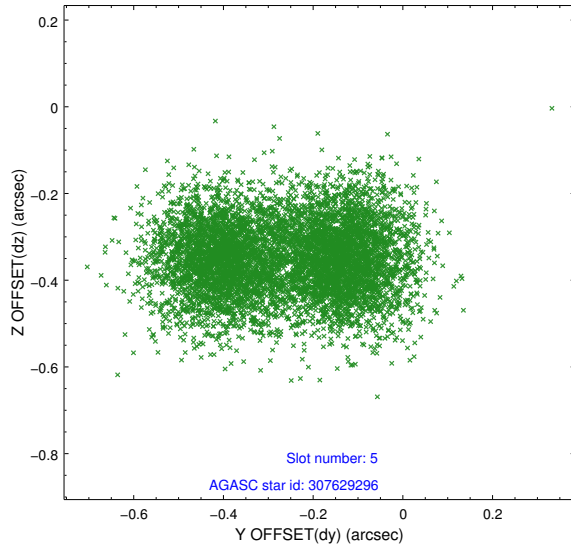
2.4.1 Slot 3



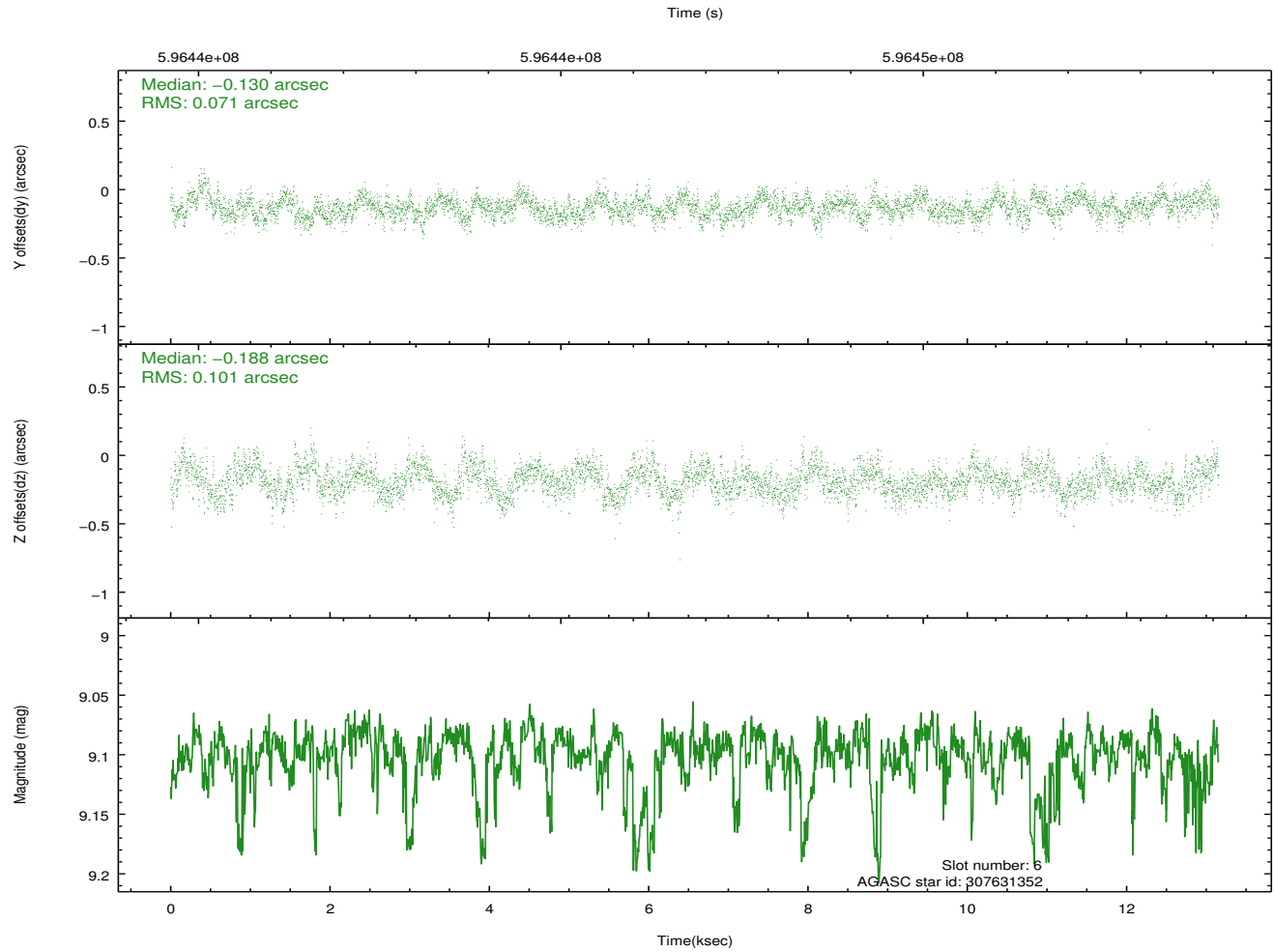
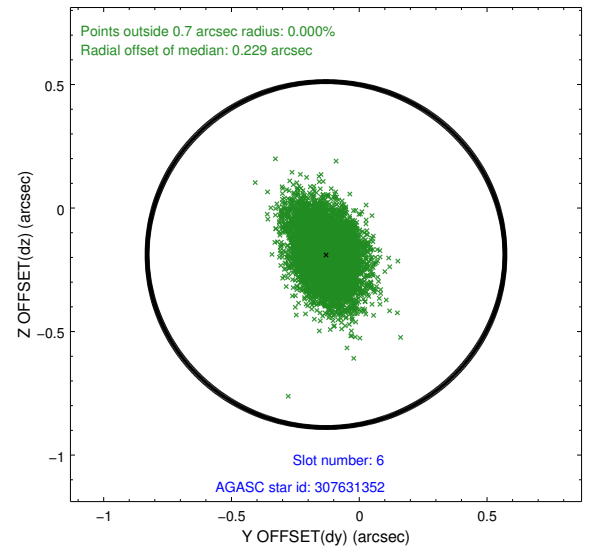
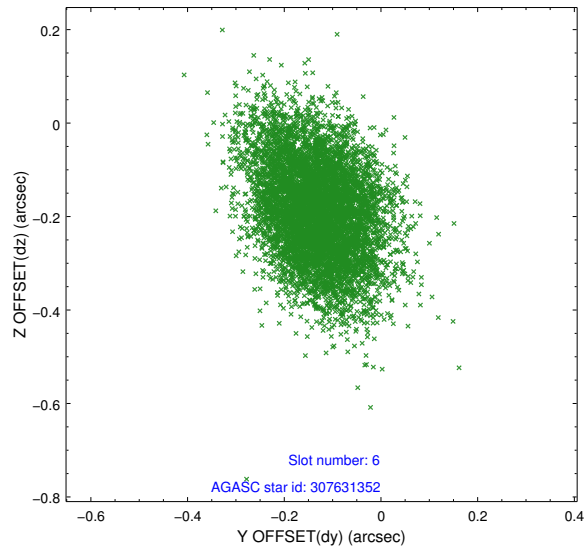
2.4.2 Slot 4



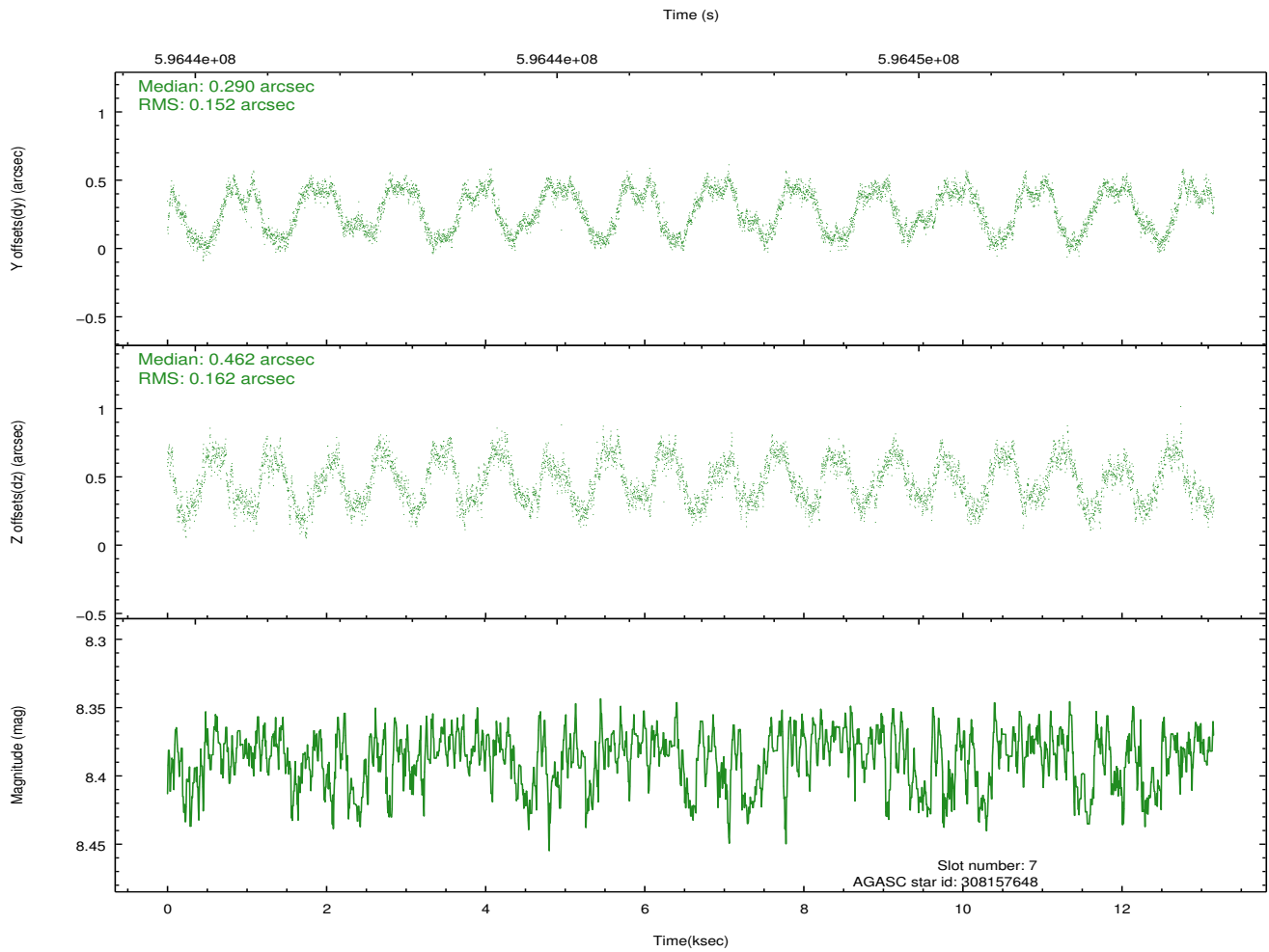
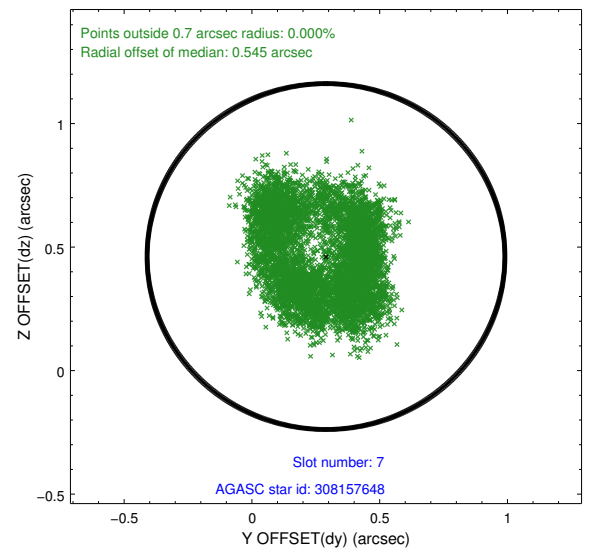
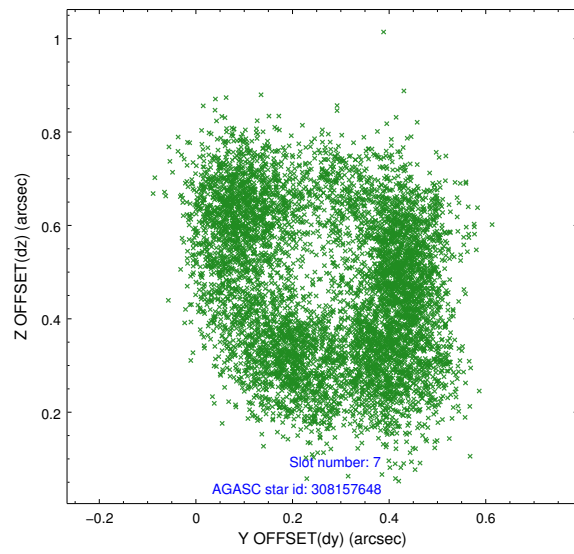
2.4.3 Slot 5



2.4.4 Slot 6

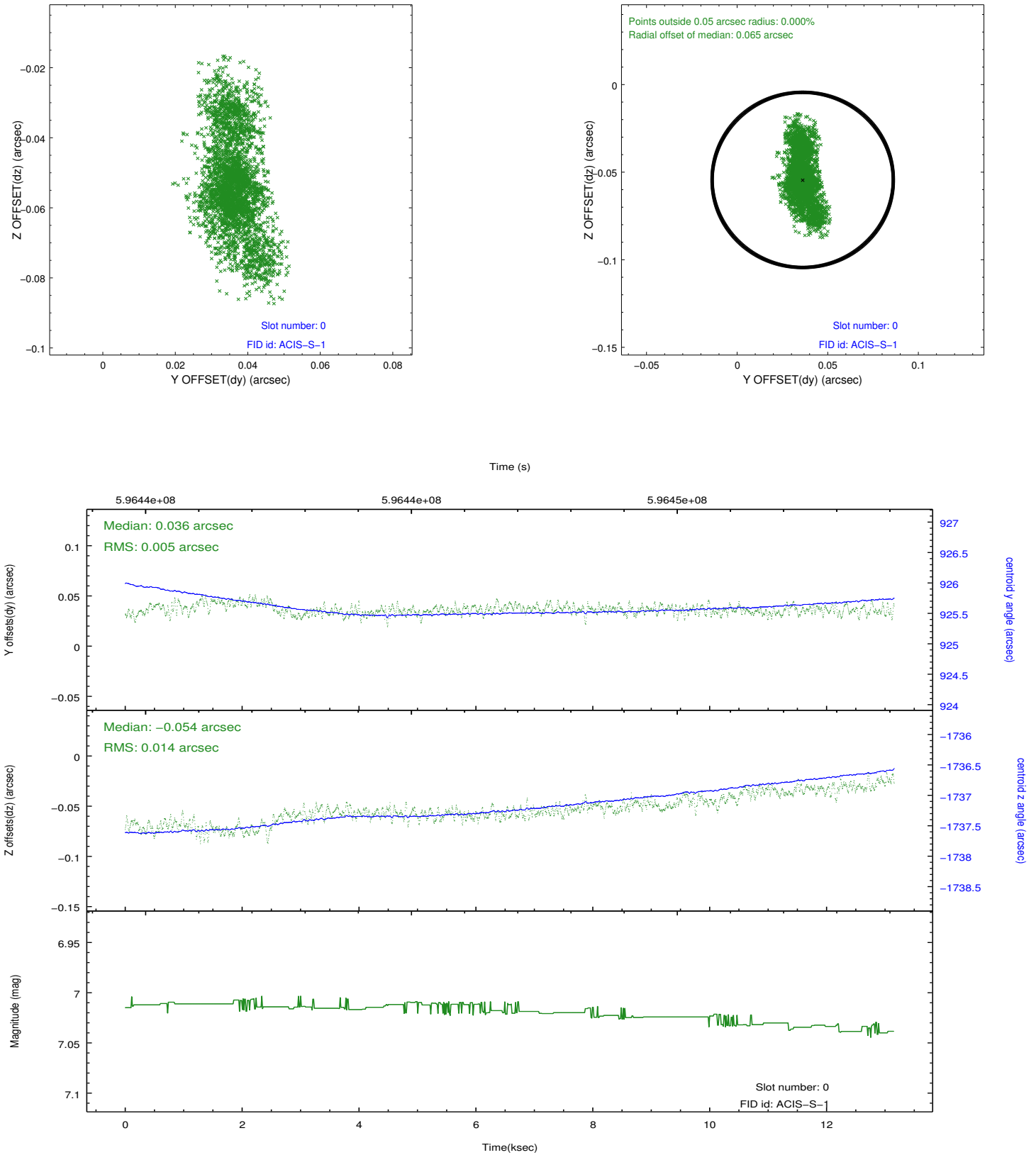


2.4.5 Slot 7

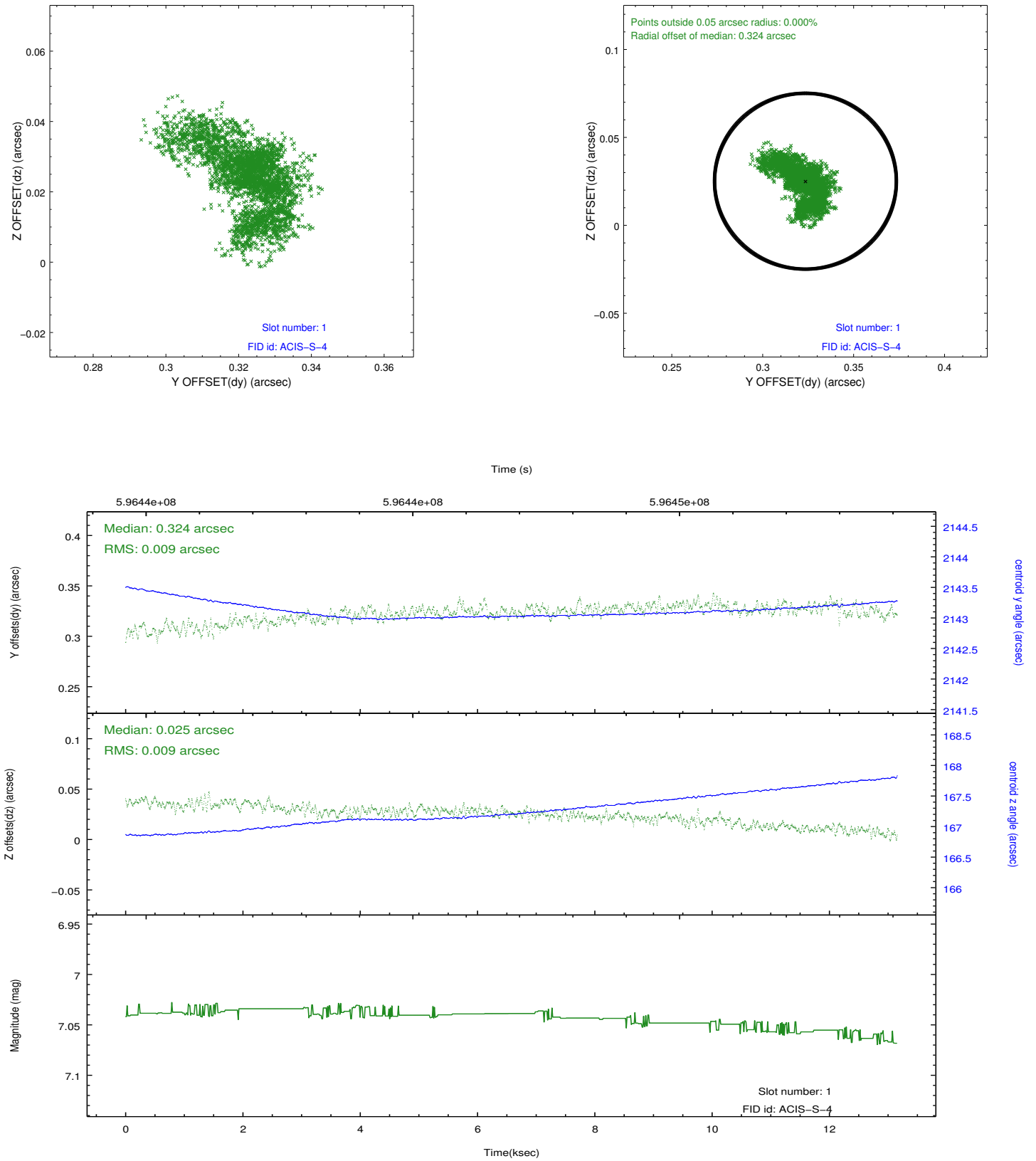


2.5 FID Slots

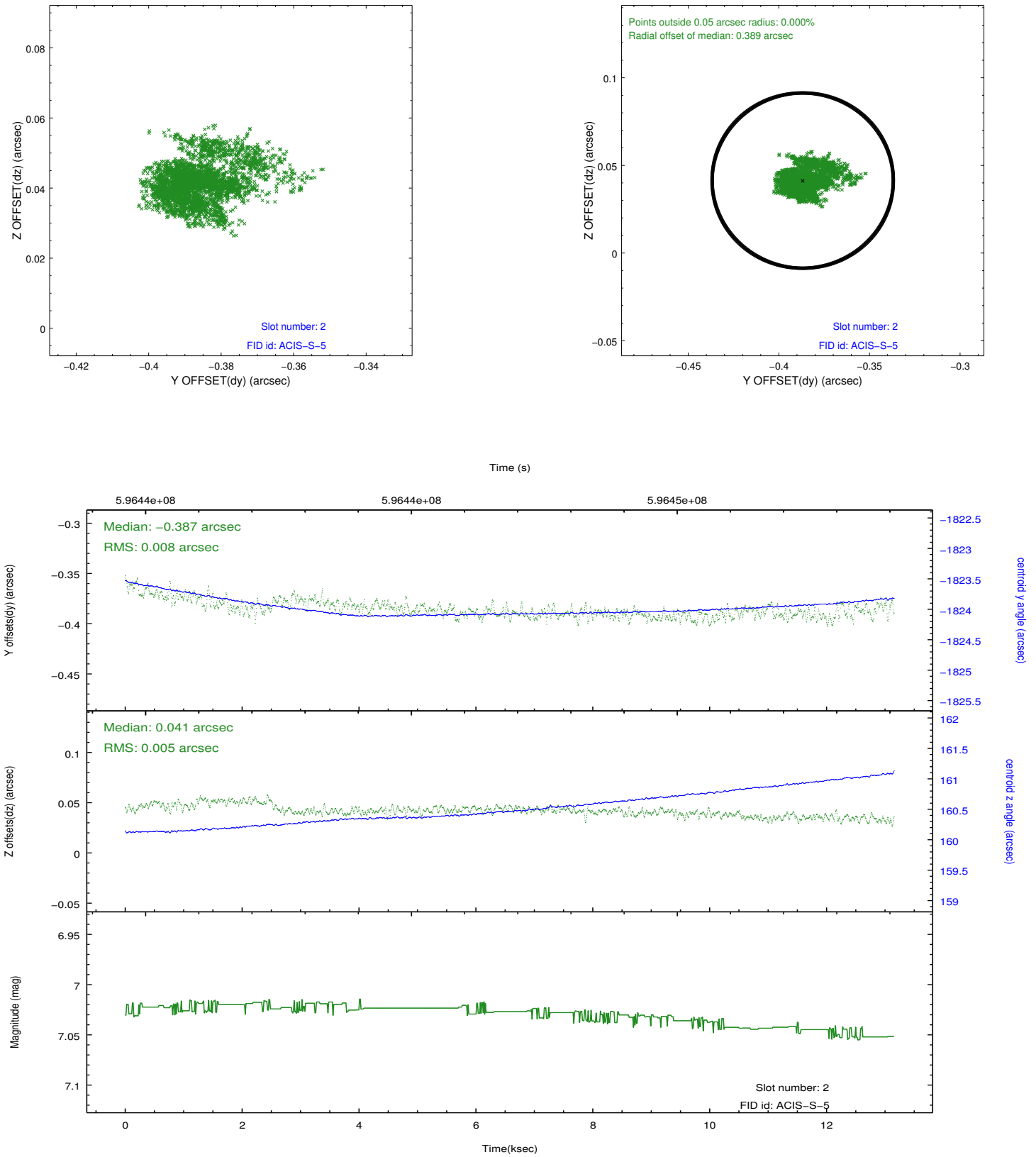
2.5.1 Slot 0



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)	2016.11.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.050744003415

A.2 Comments

One optional chip was dropped.