

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 5163 - L2 Version 3
Chandra X-Ray Center

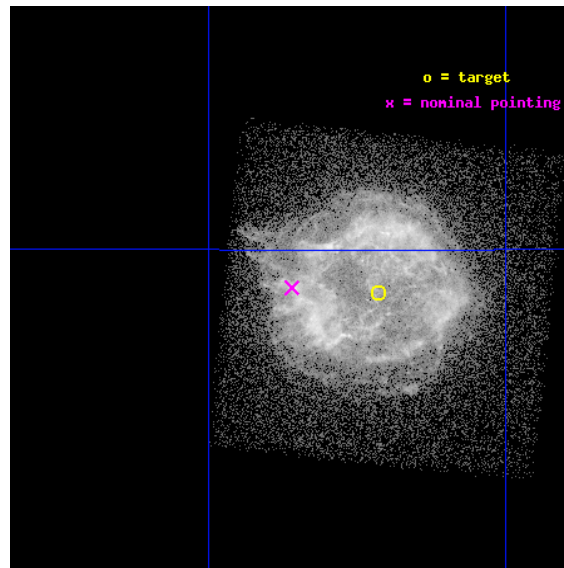
L2 Processing Date : Nov 13 2012

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1 Front

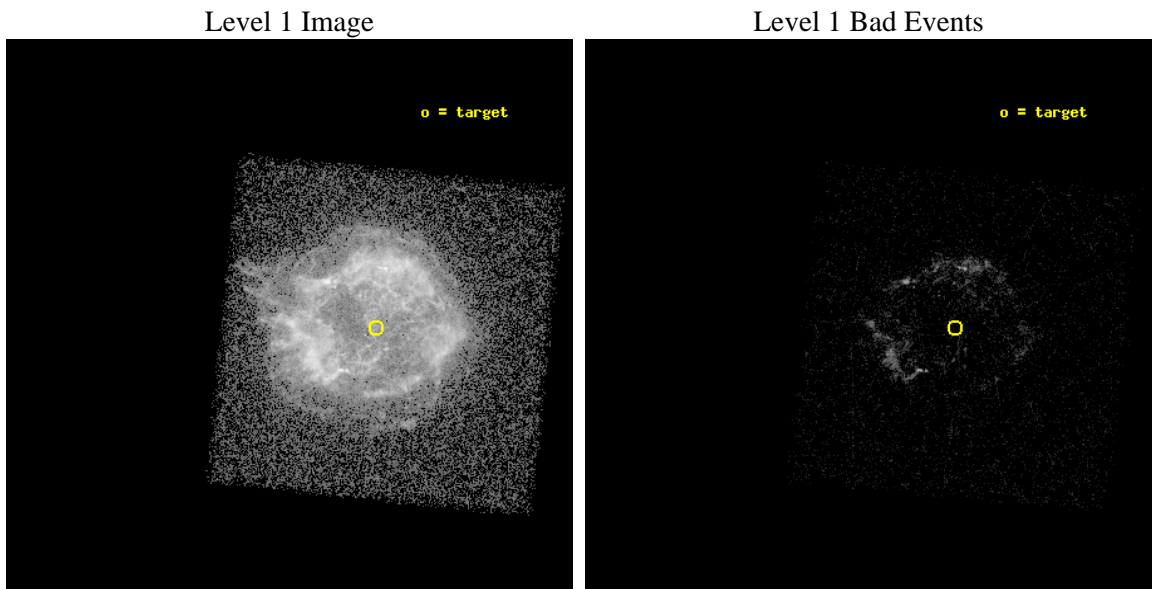
seq_num	590361	Sequence number
obs_id	5163	Observation id
title	AO5A Observations of the Standard Candles Cas A and G21.5-09	Propo
observer	Dr. CXC Calibration	Principal investigator
object	Cas A[S3,-120,-2.0,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.8575	Observer's specified target RA [deg]
dec_targ	58.814833	Observer's specified target Dec [deg]
ra_nom	350.92998408428	Nominal RA [deg]
dec_nom	58.816899483242	Nominal Dec [deg]
roll_nom	5.9904561708178	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1101.9492535293	Sum of GTIs [s]
livetime	1087.9957085669	Livetime [s]
ontime4	1918.9028063118	Sum of GTIs [s]
ontime5	1944.8715584874	Sum of GTIs [s]
ontime6	1944.707398504	Sum of GTIs [s]
ontime7	1101.9492535293	Sum of GTIs [s]
ontime8	1944.7894784808	Sum of GTIs [s]
ontime9	1944.7484384775	Sum of GTIs [s]
l2events	333358	Number of level 2 events



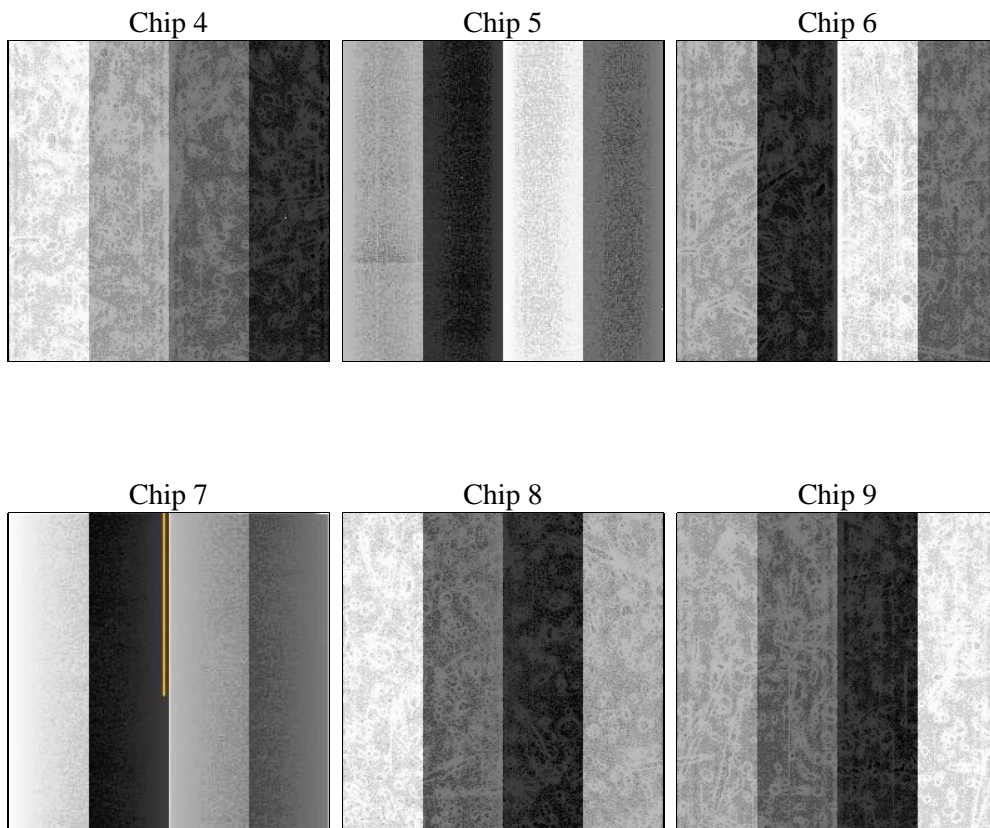
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1101.9492535293	Sum of GTIs [s]
caldsver	4.5.2	 	ontime4	1918.9028063118	Sum of GTIs [s]
date	2012-11-13T20:13:06	Date and time of file creation	ontime5	1944.8715584874	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	1944.707398504	Sum of GTIs [s]
			ontime7	1101.9492535293	Sum of GTIs [s]
			ontime8	1944.7894784808	Sum of GTIs [s]
			ontime9	1944.7484384775	Sum of GTIs [s]
			l1events	375949	Number of level 1 events

2.1.4 Events

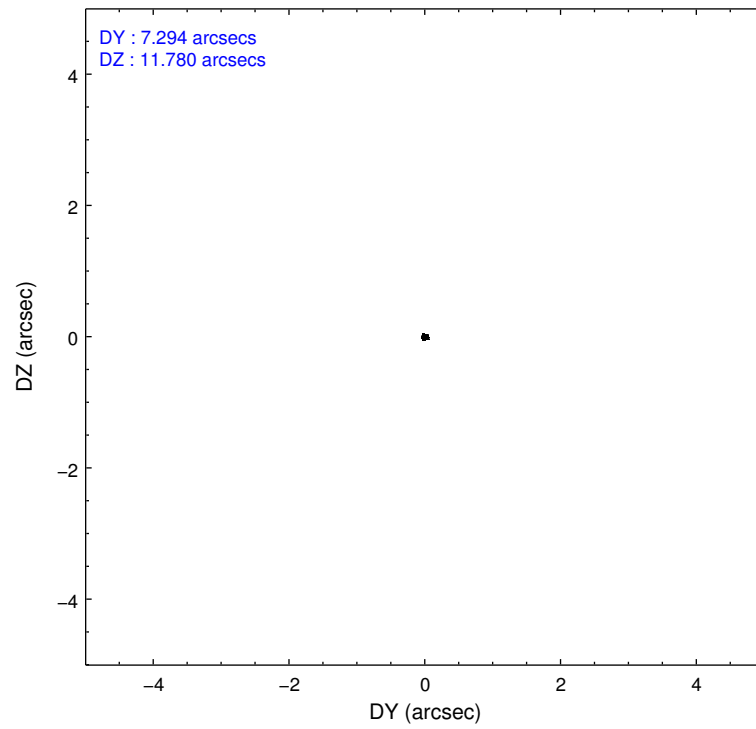
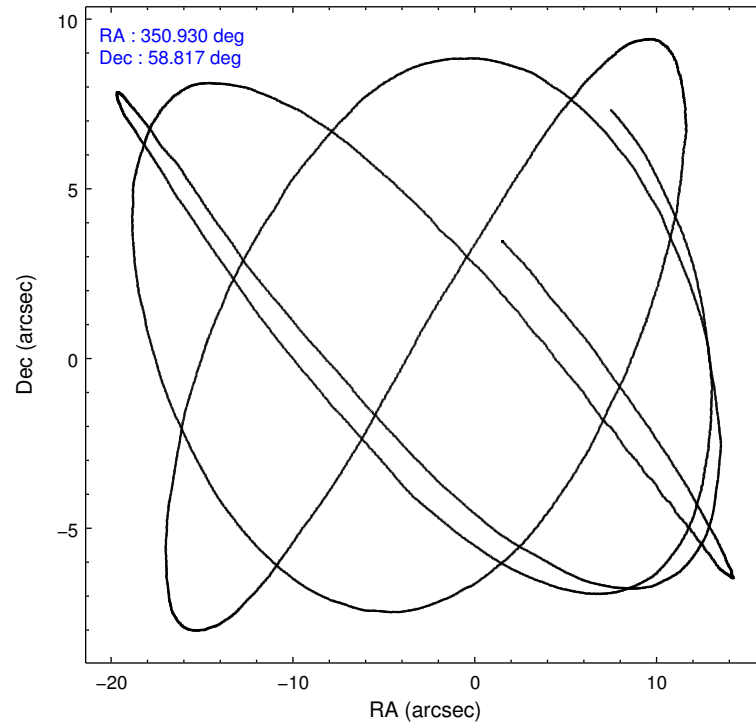
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	0	0	0	375949	0	0
rejected events	0	0	0	39031	0	0
rejected %	0%	0%	0%	10%	0%	0%

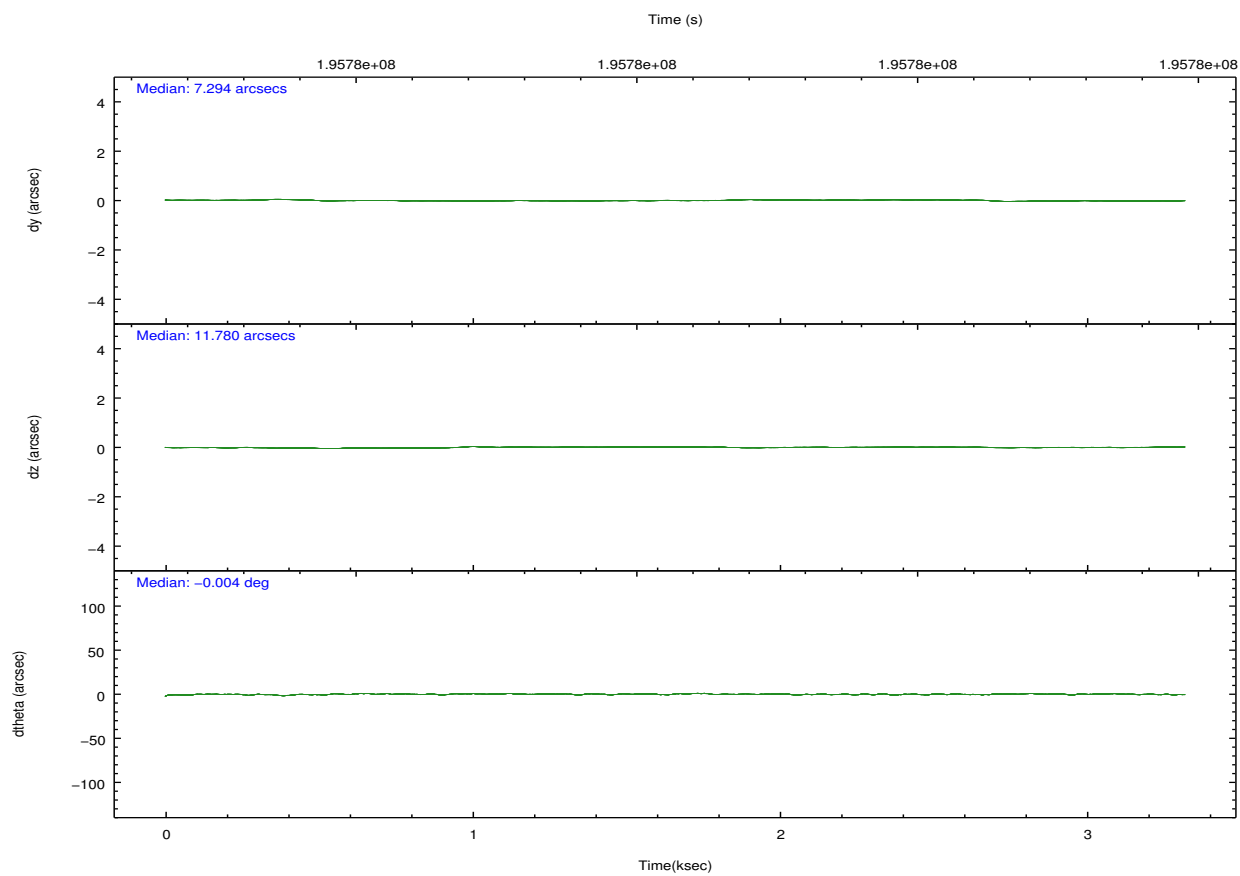
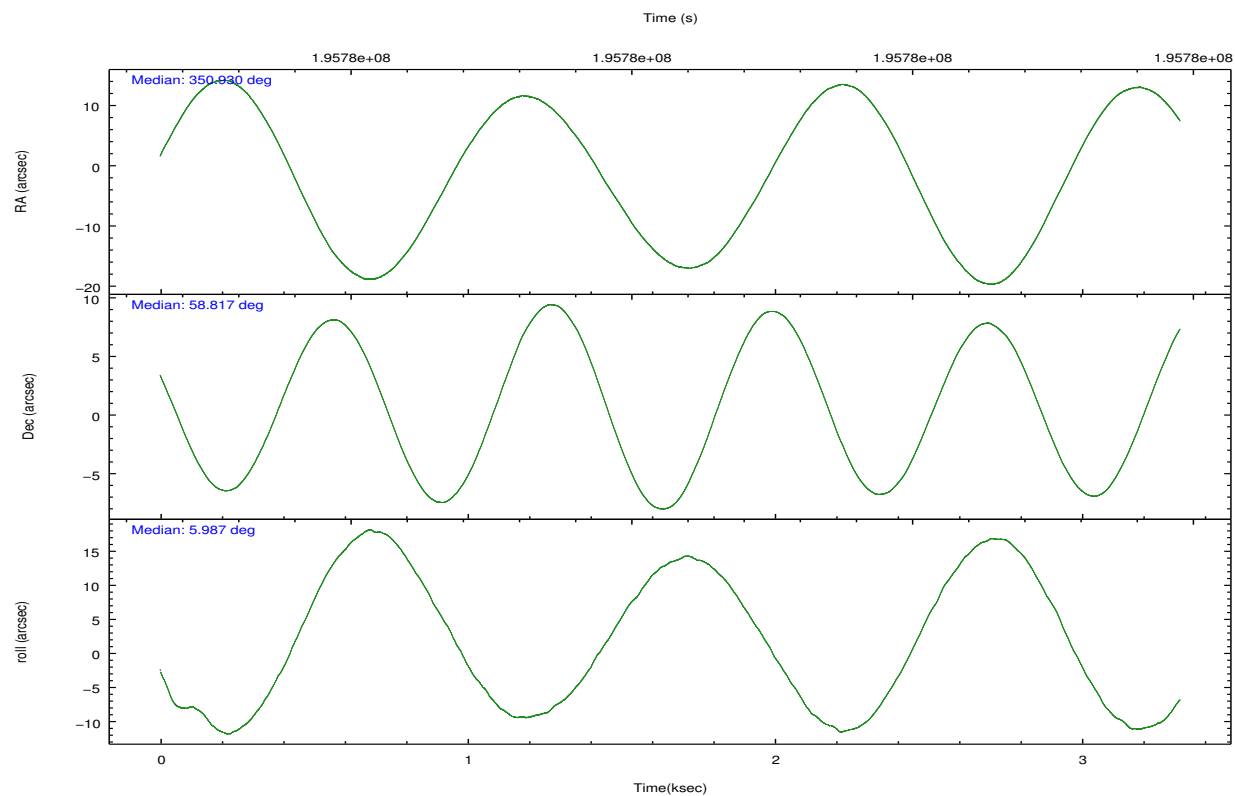
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	0	0	0	84323	0	0
	0%	0%	0%	22%	0%	0%
grade 1 events	0	0	0	1674	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	0	0	0	90929	0	0
	0%	0%	0%	24%	0%	0%
grade 3 events	0	0	0	39861	0	0
	0%	0%	0%	10%	0%	0%
grade 4 events	0	0	0	39027	0	0
	0%	0%	0%	10%	0%	0%
grade 5 events	0	0	0	7095	0	0
	0%	0%	0%	1%	0%	0%
grade 6 events	0	0	0	83745	0	0
	0%	0%	0%	22%	0%	0%
grade 7 events	0	0	0	29295	0	0
	0%	0%	0%	7%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-456789	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	350.887499	350.9299840842844	CCD I2 on	Y	N
[deg] Pointing Dec	58.800694	58.81689948324195	CCD I3 on	Y	N
[deg] Pointing Roll	5.870187	5.99045617081775	CCD S0 on	N	Y
[s] Window start time (MET)	194486464.184000	194486464.184000	CCD S1 on	Y	Y
[s] Window stop time (MET)	197078464.184000	197078464.184000	CCD S2 on	Y	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S3 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S4 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S5 on	N	Y
[mm] SIM translation stage offset	0	0.01005778216563158	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	195777796.184000	195776266.64339	On-chip summing requested	N	N
Observation start date	2004-03-15T22:42:12	2004-03-15T22:17:46	Subarray requested	NONE	NONE
[s] Observation end time (MET)	195779796.184000	195779987.90605	Alternating exposures requested	N	N
Observation end date	2004-03-15T23:15:32	2004-03-15T23:19:47	[s] Primary exposure time	0.000000	3.2
Read mode	TIMED	TIMED			

2.3 Aspect



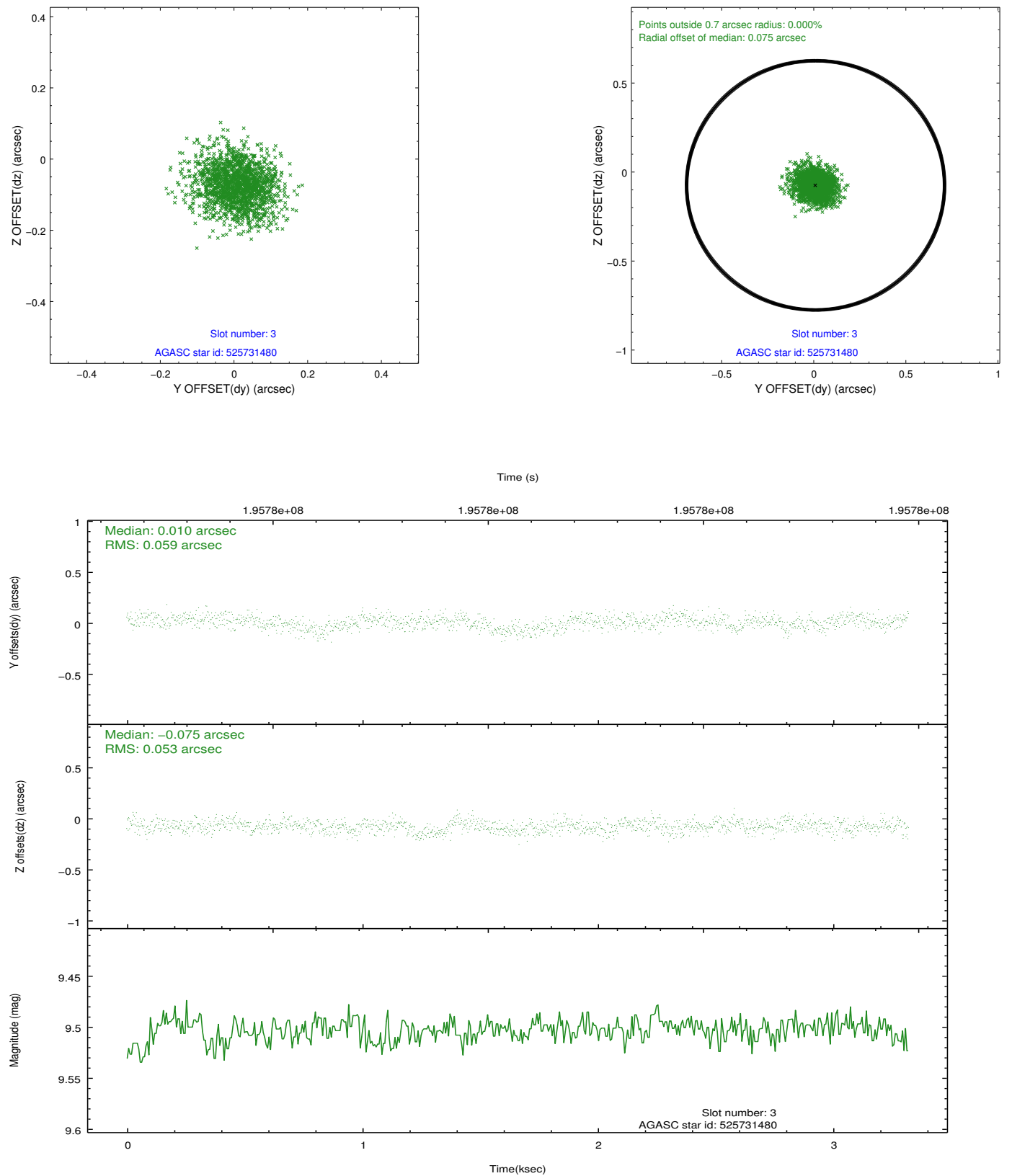


Slot Statistics

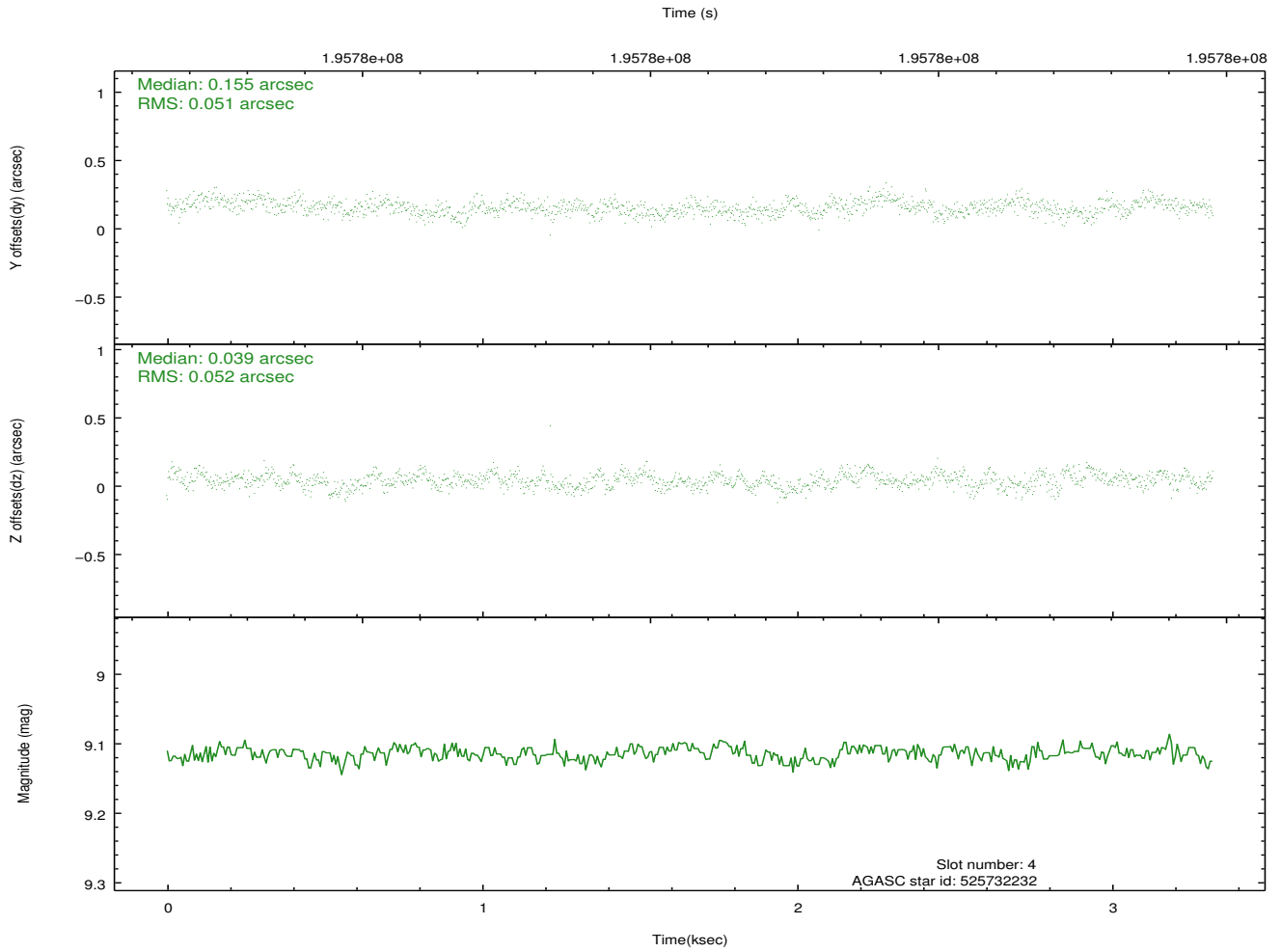
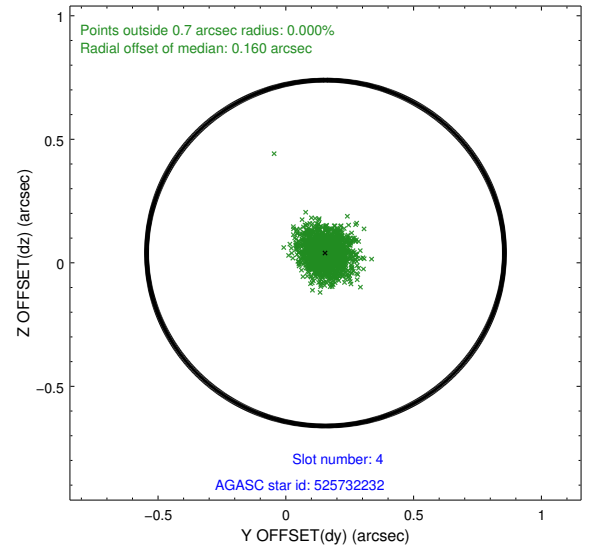
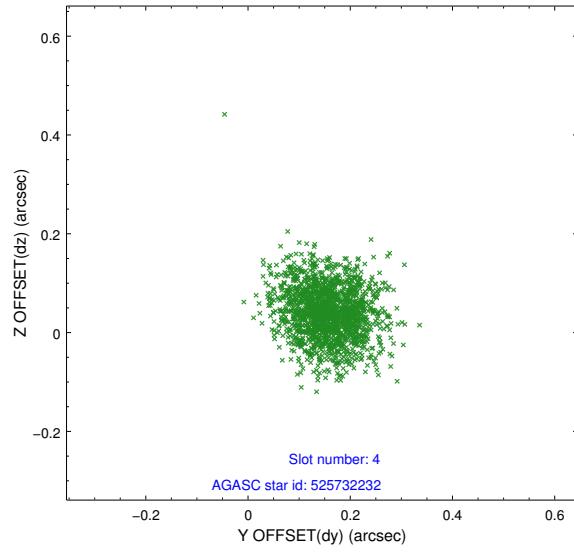
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	811	-0.020	-0.009	0.005	0.010	0.000000	0.000000	-760.07	-1733.03
1	FID	ACIS-S-4	7.20	810	0.041	-0.004	0.006	0.011	0.000000	0.000000	2152.39	173.49
2	FID	ACIS-S-6	7.34	810	-0.048	0.020	0.007	0.011	0.000000	0.000000	404.33	813.08
3	GUIDE	525731480	9.50	1619	0.010	-0.075	0.085	0.140	351.647209	58.687294	1372.62	-542.90
4	GUIDE	525732232	9.11	1620	0.155	0.039	0.078	0.125	351.669550	58.757012	1438.51	-297.47
5	GUIDE	525732488	8.41	1618	-0.059	-0.010	0.062	0.098	350.087090	58.516915	-1599.89	-853.09
6	GUIDE	525735976	8.91	1619	-0.069	0.001	0.081	0.130	350.142956	58.277622	-1595.12	-1721.35
7	GUIDE	525732528	9.36	1615	-0.037	0.050	0.086	0.141	351.607241	59.298932	1498.70	1655.69

2.4 Star Slots

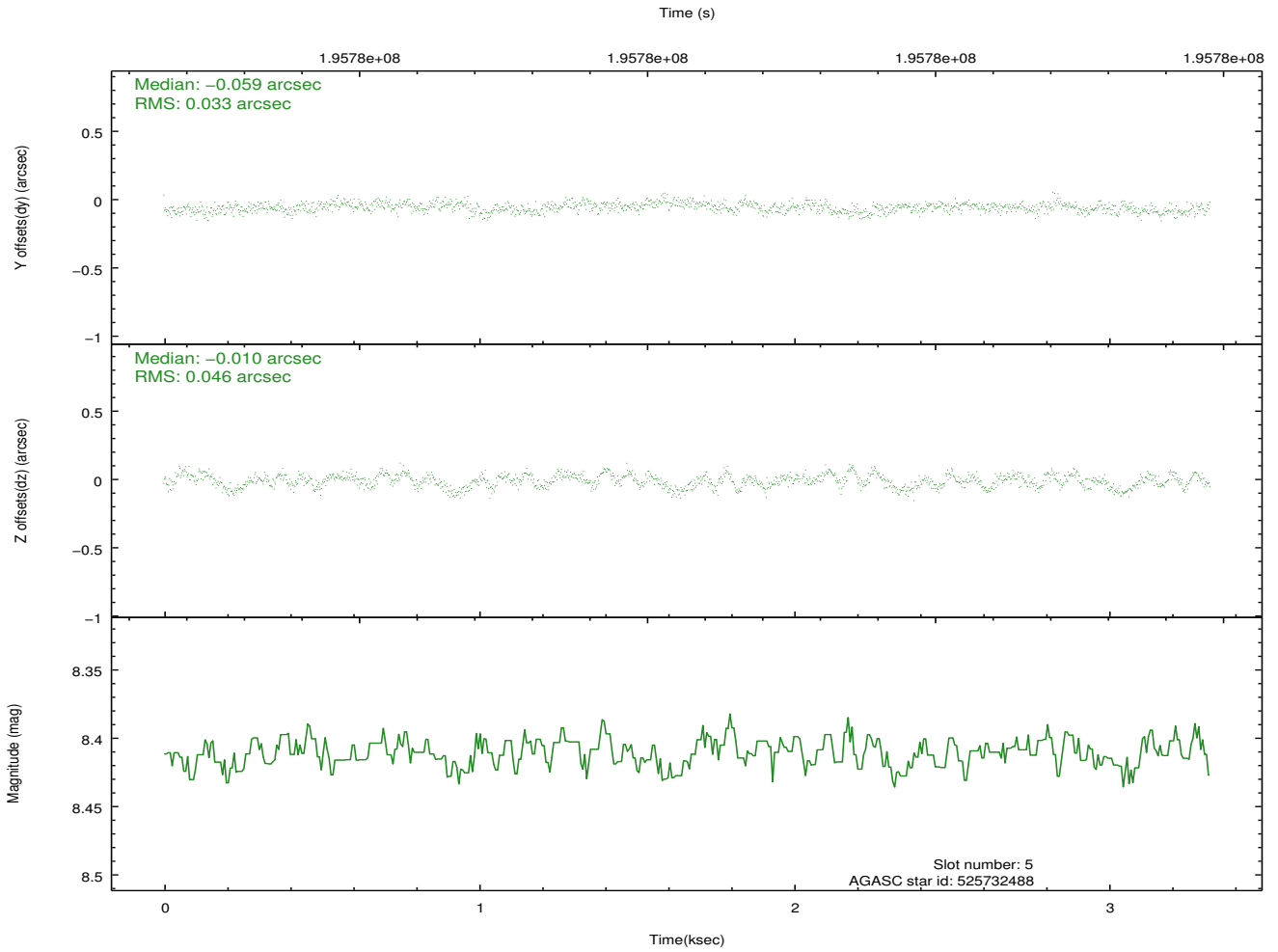
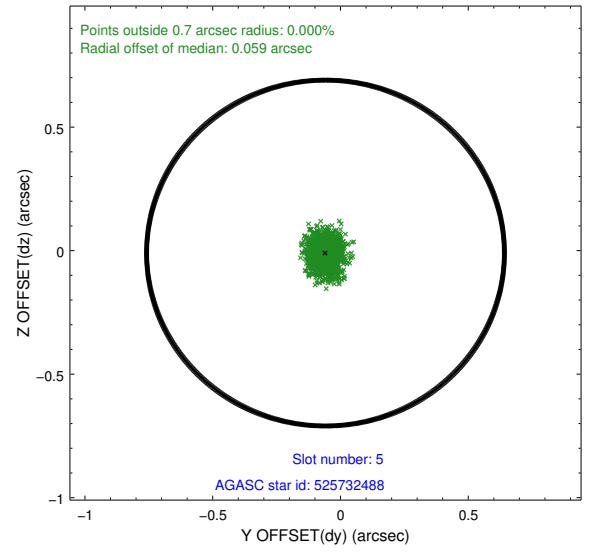
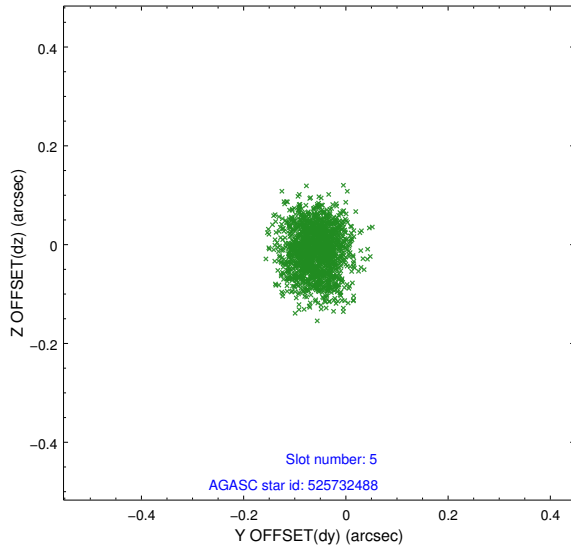
2.4.1 Slot 3



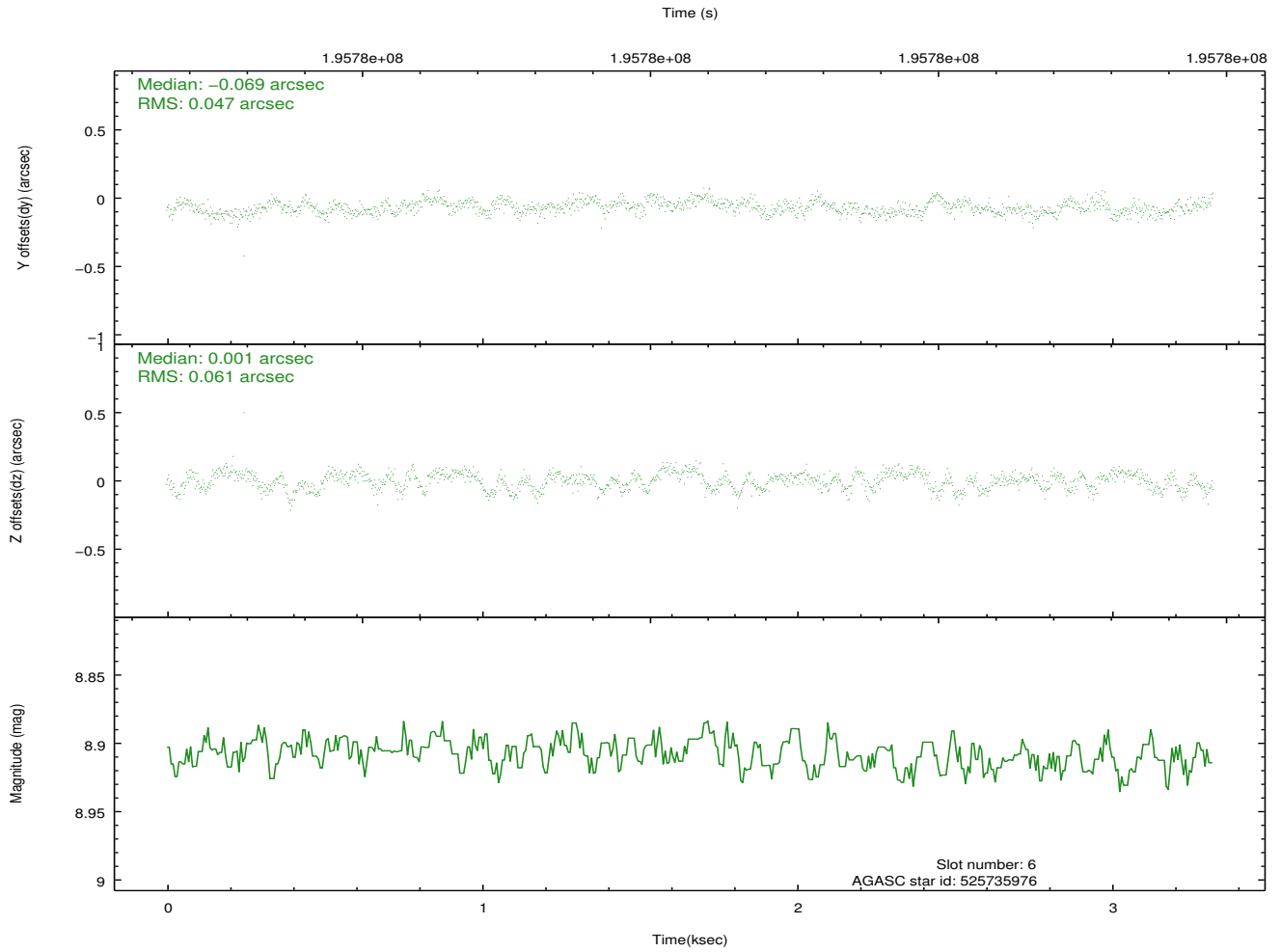
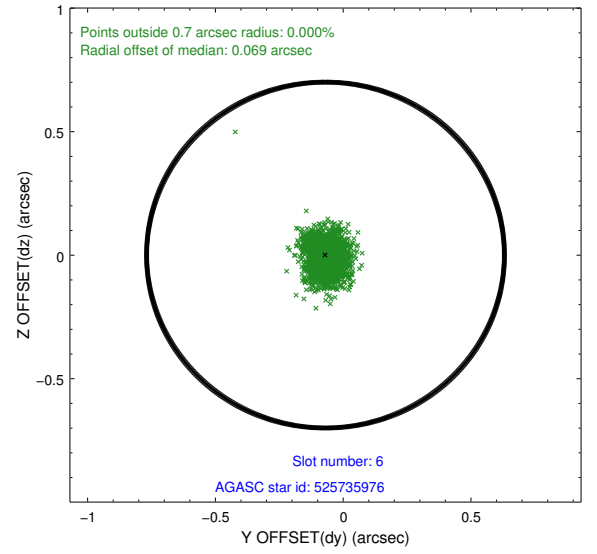
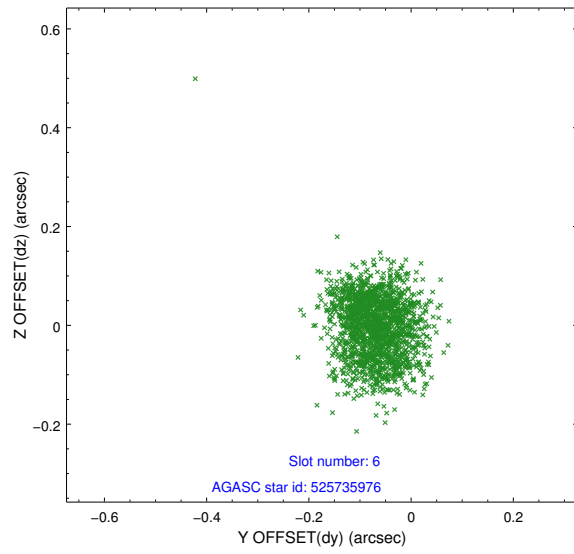
2.4.2 Slot 4



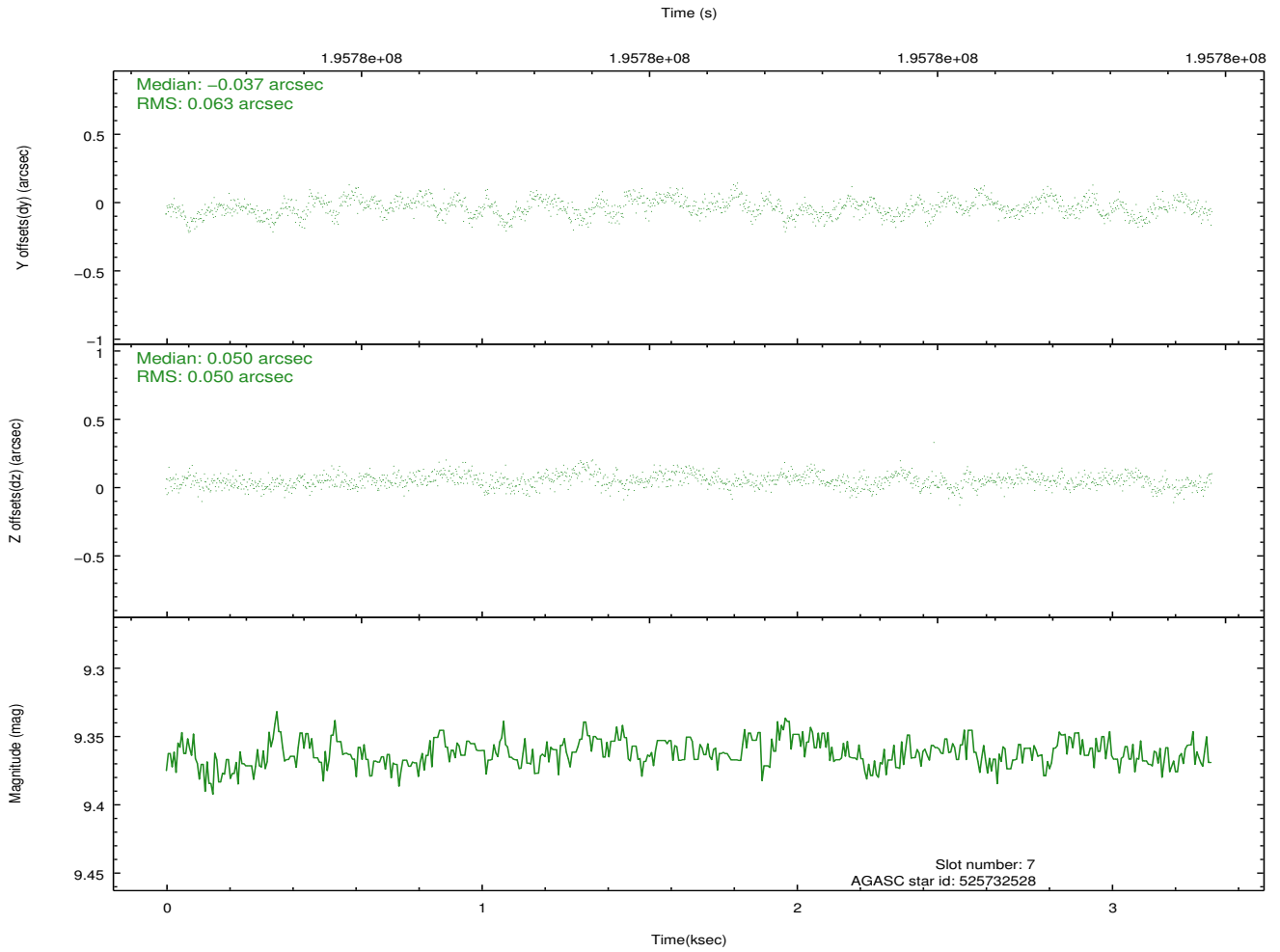
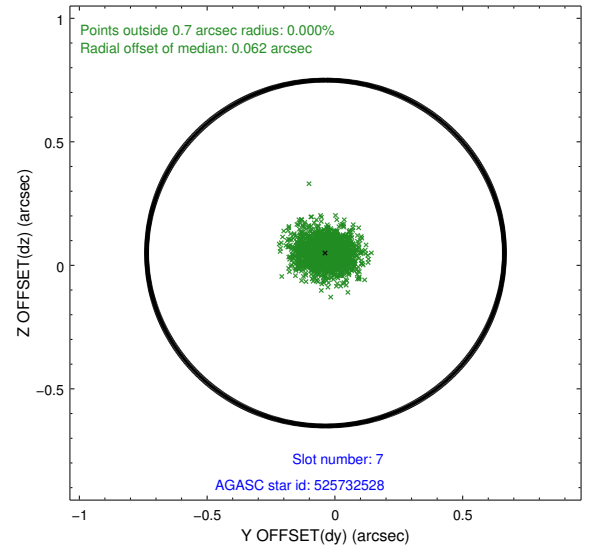
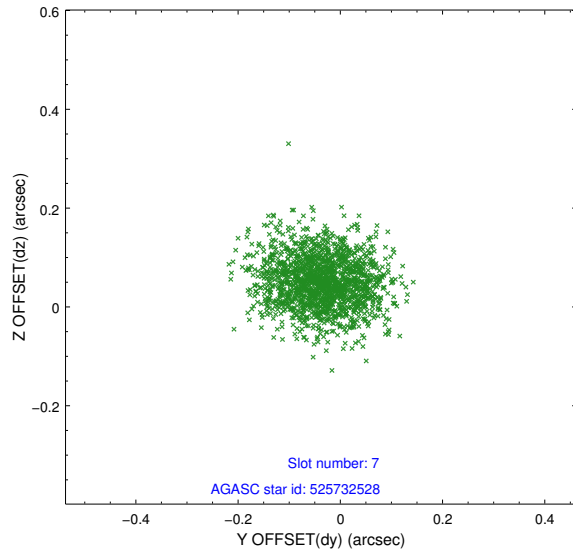
2.4.3 Slot 5



2.4.4 Slot 6

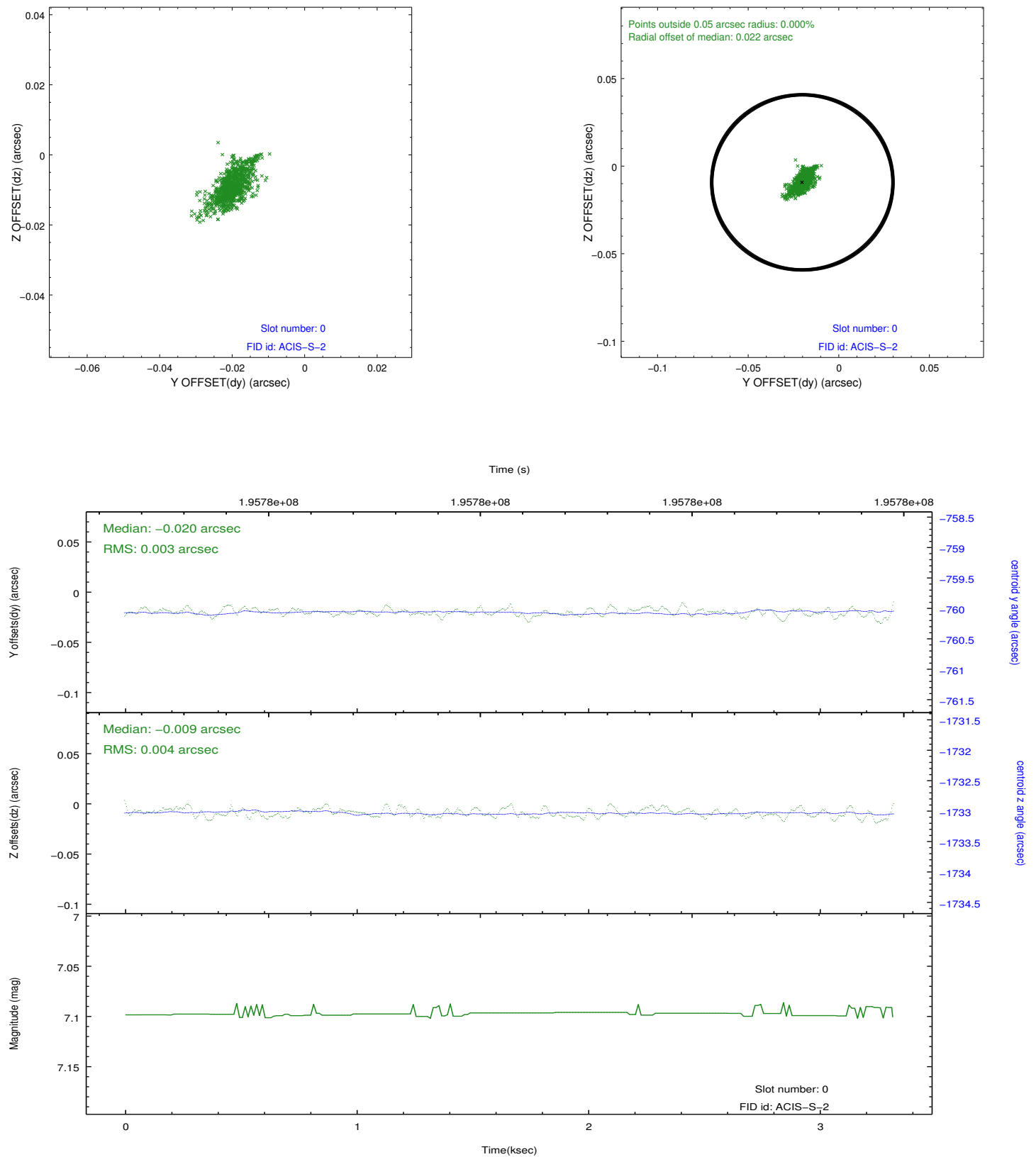


2.4.5 Slot 7

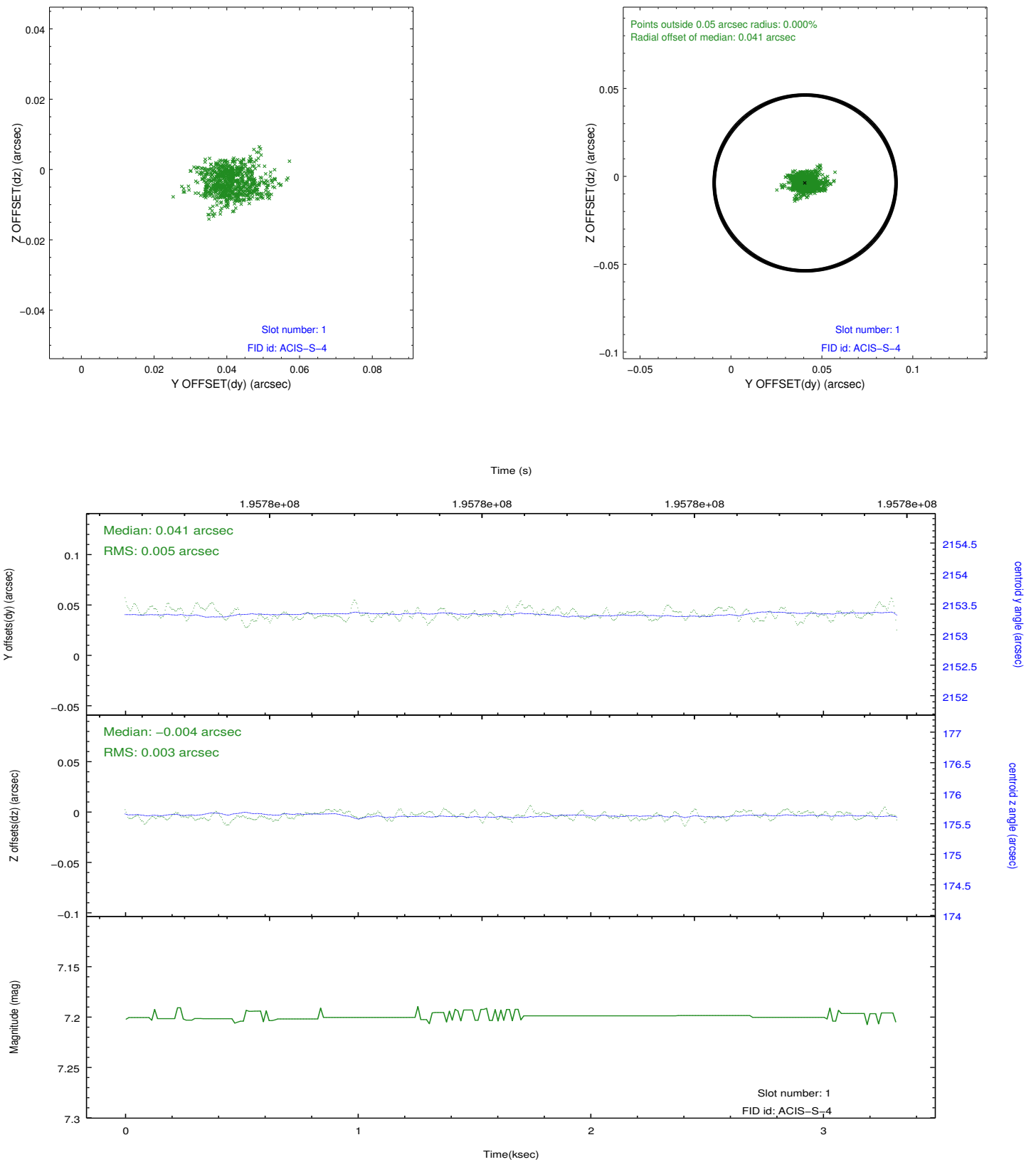


2.5 FID Slots

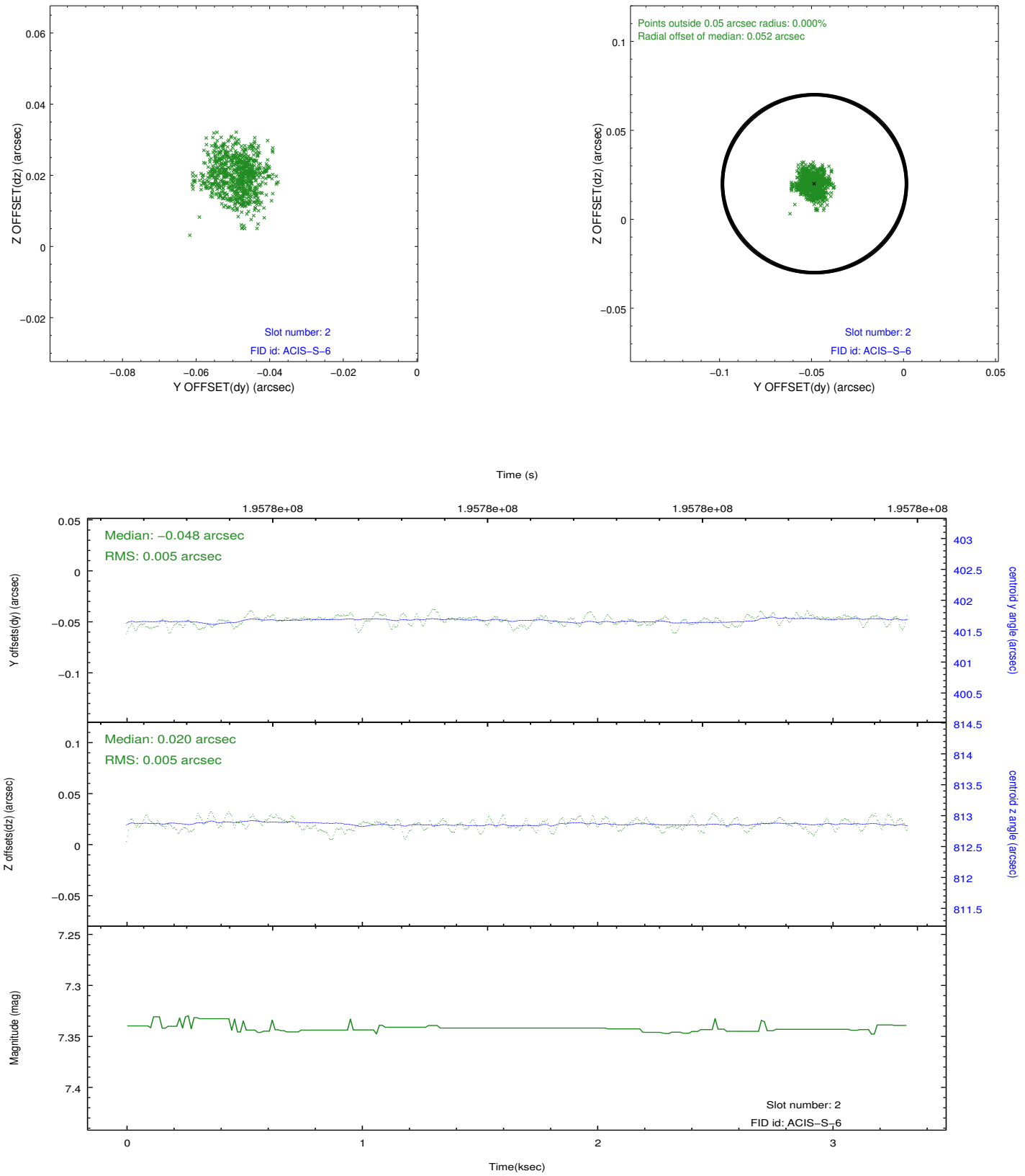
2.5.1 Slot 0



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)	2012.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.101

A.2 Comments

Window constraint met. A spatial exclusion window was specified for this observation. Although 6 CCD chips were active, only events from chip 7 were telemetered.