

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3860 - L2 Version 3
Chandra X-Ray Center

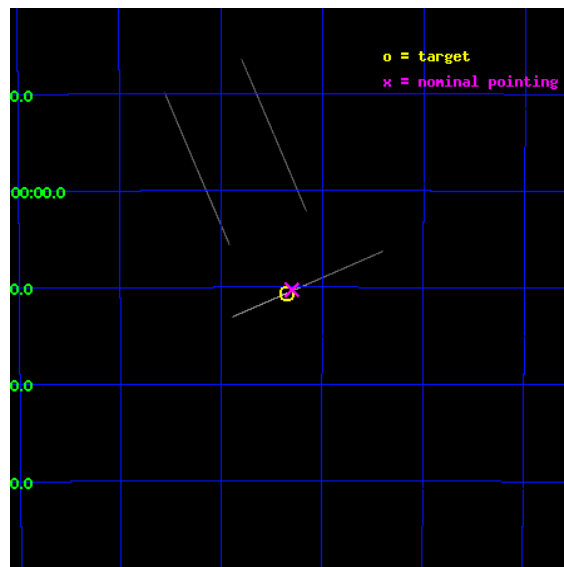
L2 Processing Date : Nov 3 2012

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1 Front

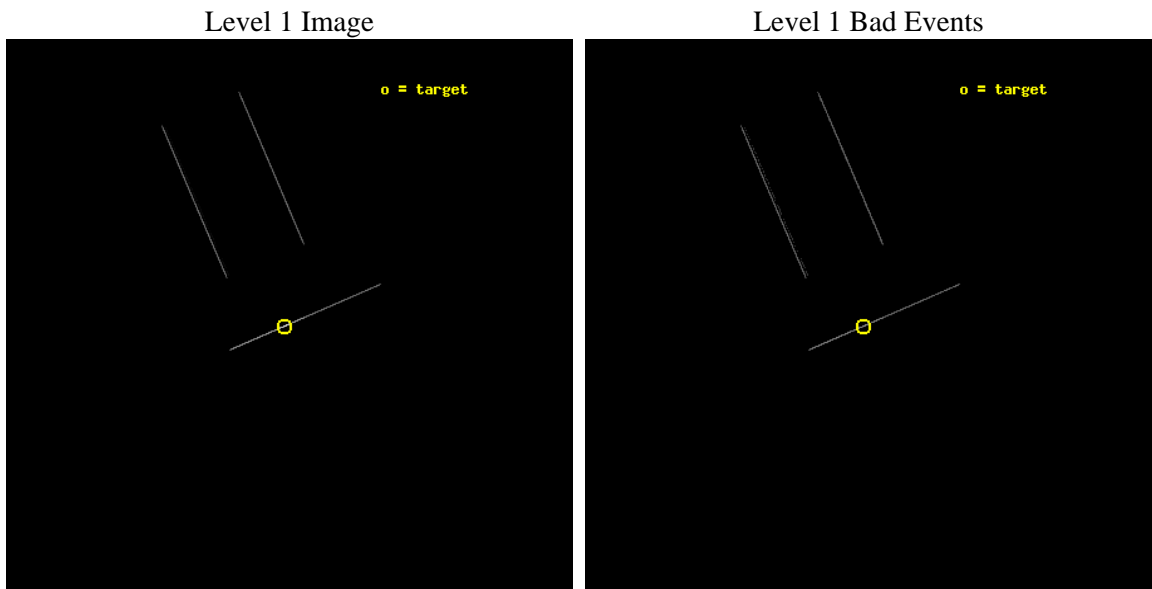
seq_num	500339	Sequence number
obs_id	3860	Observation id
title	PHASE RESOLVED SPECTROSCOPY OF THE VELA PULSAR	Proposal title
observer	Dr. George Pavlov	Principal investigator
object	VELA PULSAR	Source name
ra_targ	128.83625	Observer's specified target RA [deg]
dec_targ	-45.176583	Observer's specified target Dec [deg]
ra_nom	128.82473384317	Nominal RA [deg]
dec_nom	-45.17123387679	Nominal Dec [deg]
roll_nom	156.64846326586	Nominal Roll [deg]
revision	3	Processing version of data
ontime	38707.539950281	Sum of GTIs [s]
livetime	38556.338622351	Livetime [s]
ontime0	38707.540416718	Sum of GTIs [s]
ontime1	38707.541298002	Sum of GTIs [s]
ontime2	38707.540412009	Sum of GTIs [s]
ontime3	38707.541273832	Sum of GTIs [s]
ontime6	38707.539950639	Sum of GTIs [s]
ontime7	38707.539950281	Sum of GTIs [s]
l2events	1132607	Number of level 2 events



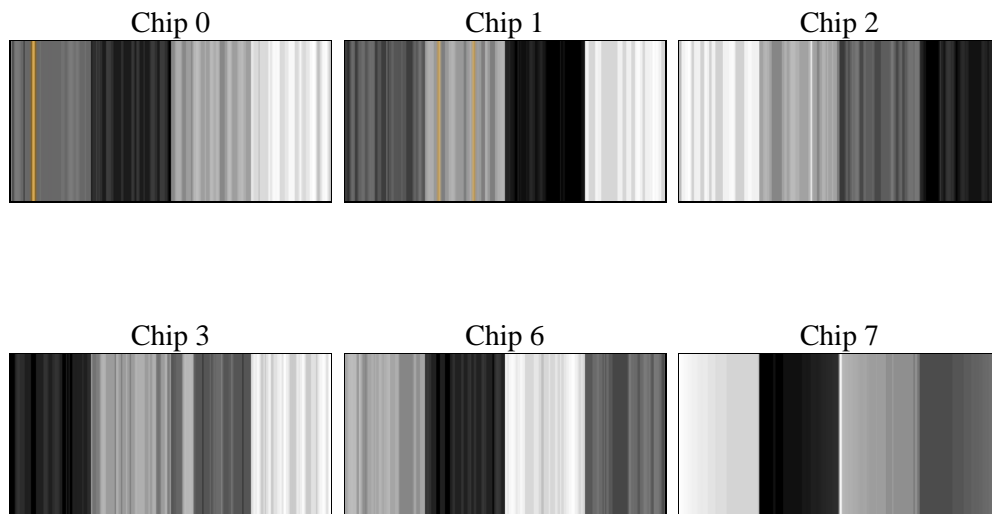
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	38000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	38707.539950281	Sum of GTIs [s]
caldbver	4.5.2	 	ontime0	38707.540416718	Sum of GTIs [s]
date	2012-11-03T16:35:03	Date and time of file creation	ontime1	38707.541298002	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	38707.540412009	Sum of GTIs [s]
			ontime3	38707.541273832	Sum of GTIs [s]
			ontime6	38707.539950639	Sum of GTIs [s]
			ontime7	38707.539950281	Sum of GTIs [s]
			l1events	1269249	Number of level 1 events

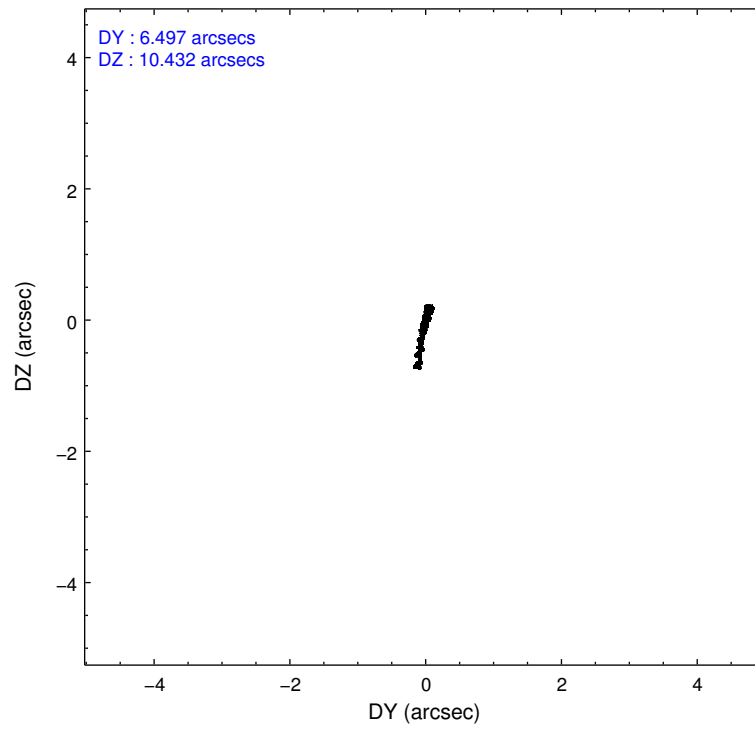
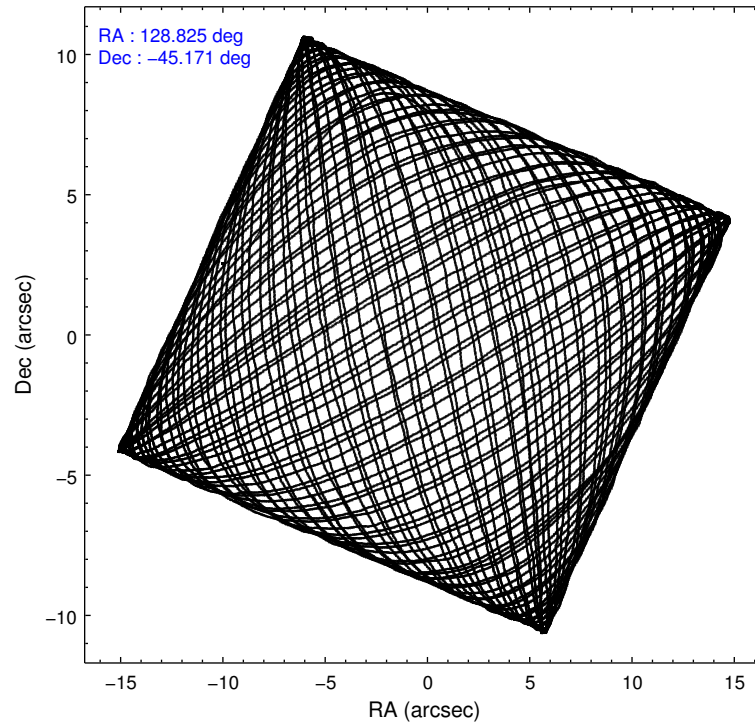
2.1.4 Events

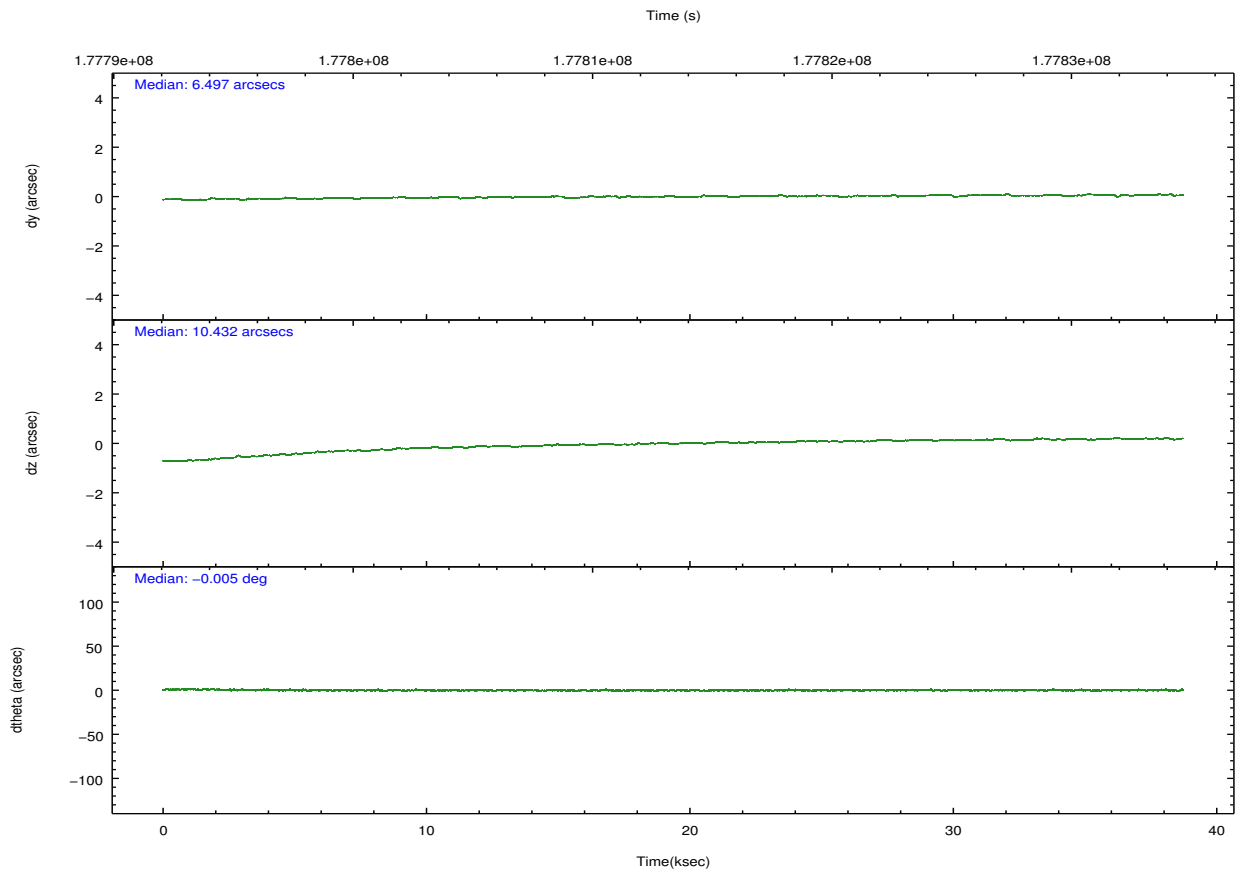
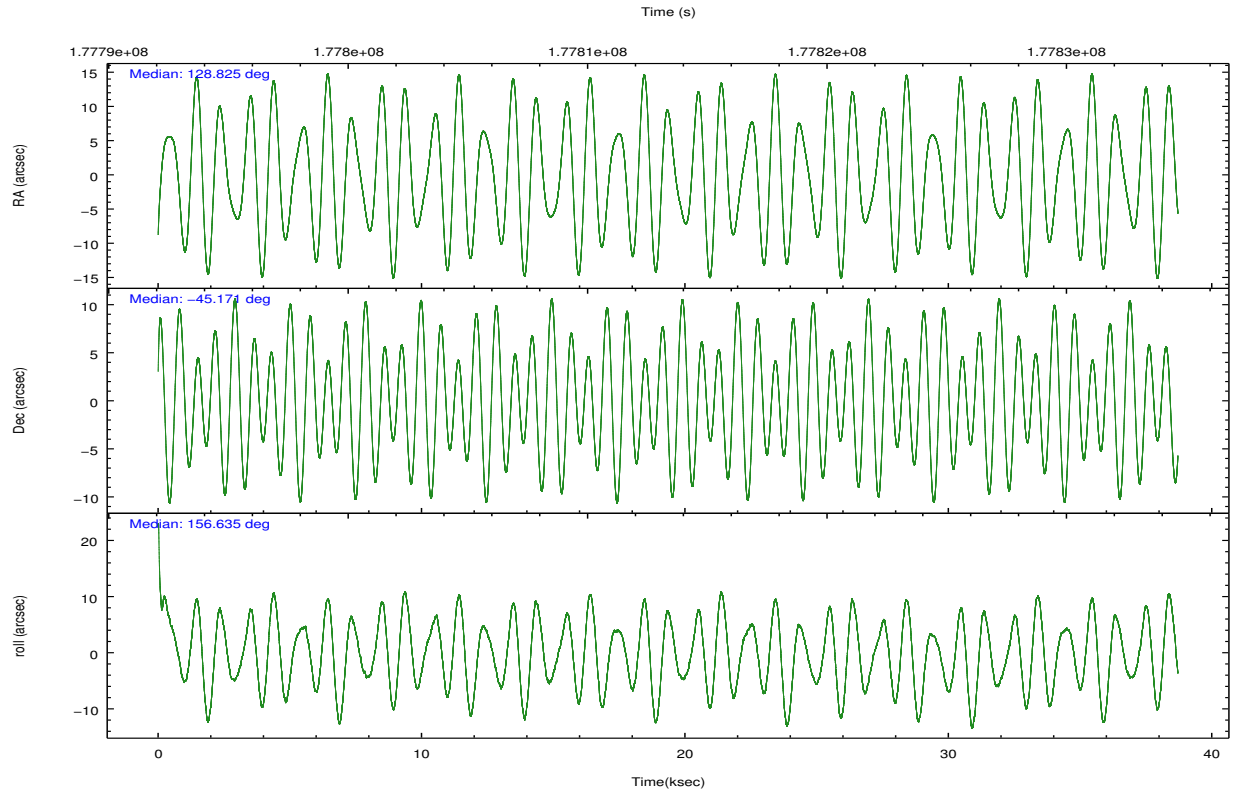
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	67048	72098	69420	79123	93114	888446	grade 0 events	11149	12673	11891	13006	16122	282925
rejected events	9384	10142	9309	10177	11184	37582		16%	17%	17%	16%	17%	31%
rejected %	13%	14%	13%	12%	12%	4%	grade 1 events	190	191	187	214	210	1034
								0%	0%	0%	0%	0%	0%
							grade 2 events	26613	29241	29490	34212	43488	214458
								39%	40%	42%	43%	46%	24%
							grade 3 events	5673	5053	5205	6603	5750	88725
								8%	7%	7%	8%	6%	9%
							grade 4 events	5318	4951	5357	5563	5411	86529
								7%	6%	7%	7%	5%	9%
							grade 5 events	8659	9422	8627	9418	10407	32381
								12%	13%	12%	11%	11%	3%
							grade 6 events	9446	10567	8663	10107	11726	182394
								14%	14%	12%	12%	12%	20%
							grade 7 events	0	0	0	0	0	0
								0%	0%	0%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	128.863023	128.8247338431731	Subarray requested	NONE	NONE
[deg] Pointing Dec	-45.167710	-45.17123387679008	Alternating exposures requested	N	N
[deg] Pointing Roll	156.518987	156.6484632658576	[s] Primary exposure time	0.000000	0
[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)	177794717.184000	177793491.10157			
Observation start date	2003-08-20T19:24:13	2003-08-20T19:04:51			
[s] Observation end time (MET)	177832717.184000	177832851.61575			
Observation end date	2003-08-21T05:57:33	2003-08-21T06:00:51			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect





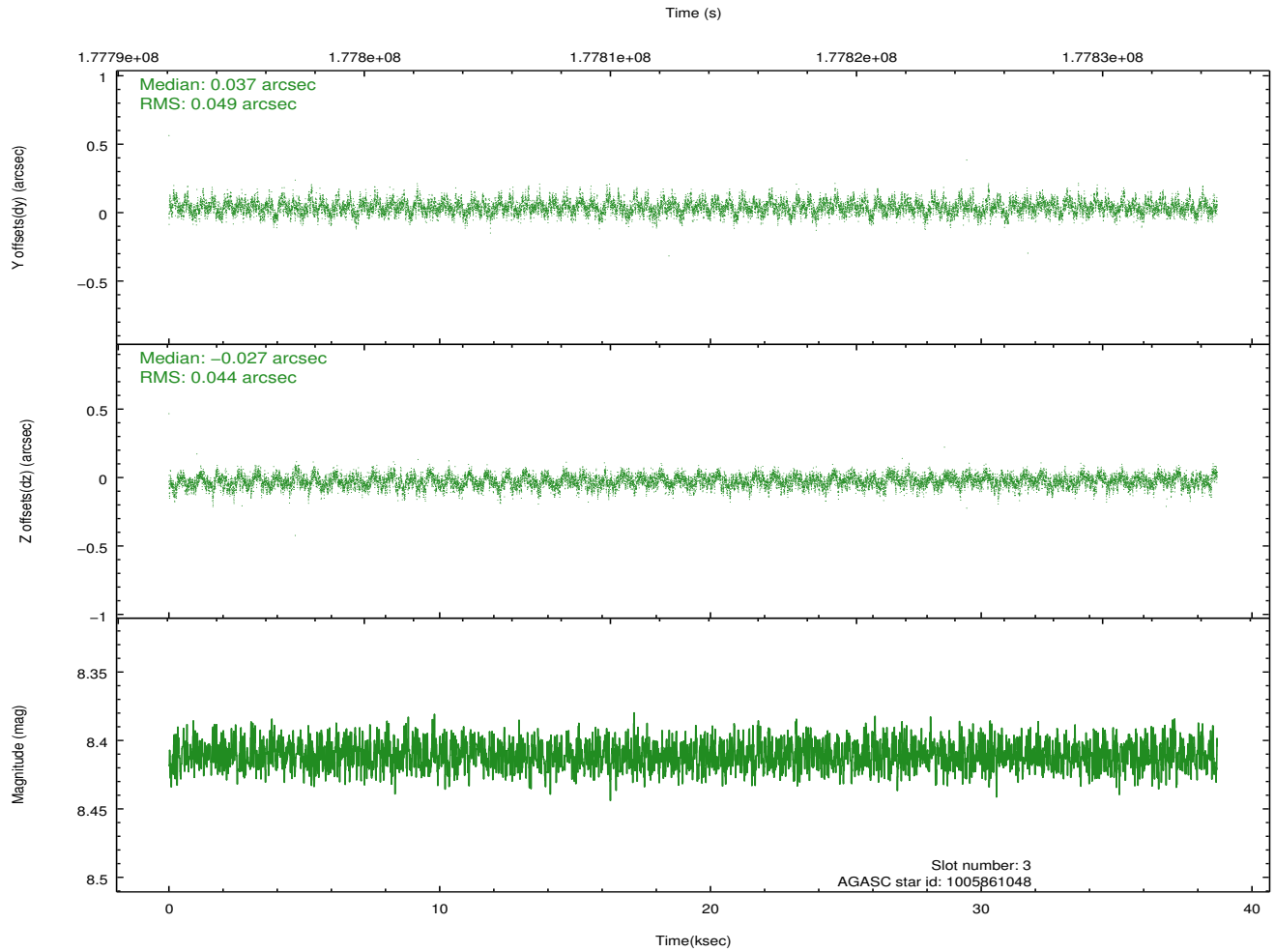
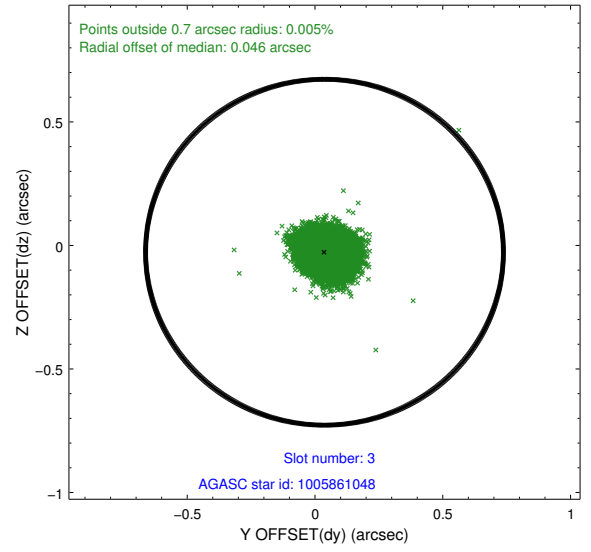
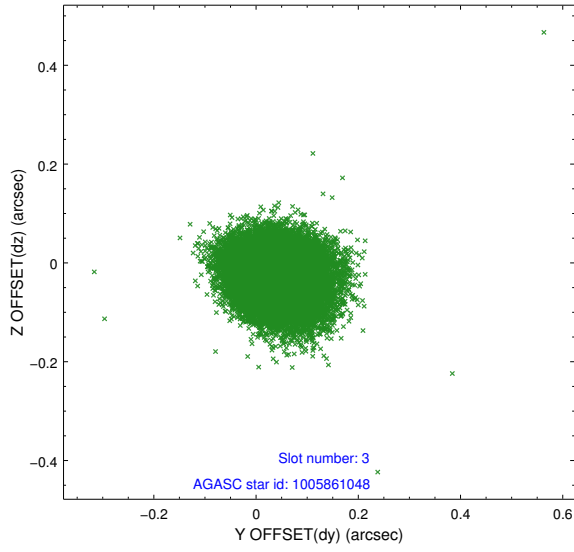
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	9443	-0.011	-0.034	0.012	0.024	0.000000	0.000000	936.79	-1727.28
1	FID	ACIS-S-4	7.20	9442	0.041	0.033	0.009	0.018	0.000000	0.000000	2154.26	176.93
2	FID	ACIS-S-5	7.23	9442	-0.057	0.013	0.007	0.012	0.000000	0.000000	-1812.10	170.51
3	GUIDE	1005861048	8.41	18885	0.037	-0.027	0.069	0.113	128.669106	-44.528323	1374.18	-1912.15
4	GUIDE	1005862984	8.79	18879	-0.135	0.056	0.069	0.112	128.482680	-44.577316	1741.13	-1558.46
5	GUIDE	1005871096	9.00	18876	-0.057	0.027	0.074	0.120	128.774147	-44.764566	787.07	-1240.42
6	GUIDE	1005871784	8.01	18878	0.133	-0.018	0.072	0.113	128.533947	-44.544833	1668.05	-1718.48
7	GUIDE	1068263200	9.13	18869	0.020	-0.033	0.083	0.137	128.222628	-45.344390	1230.29	1234.97

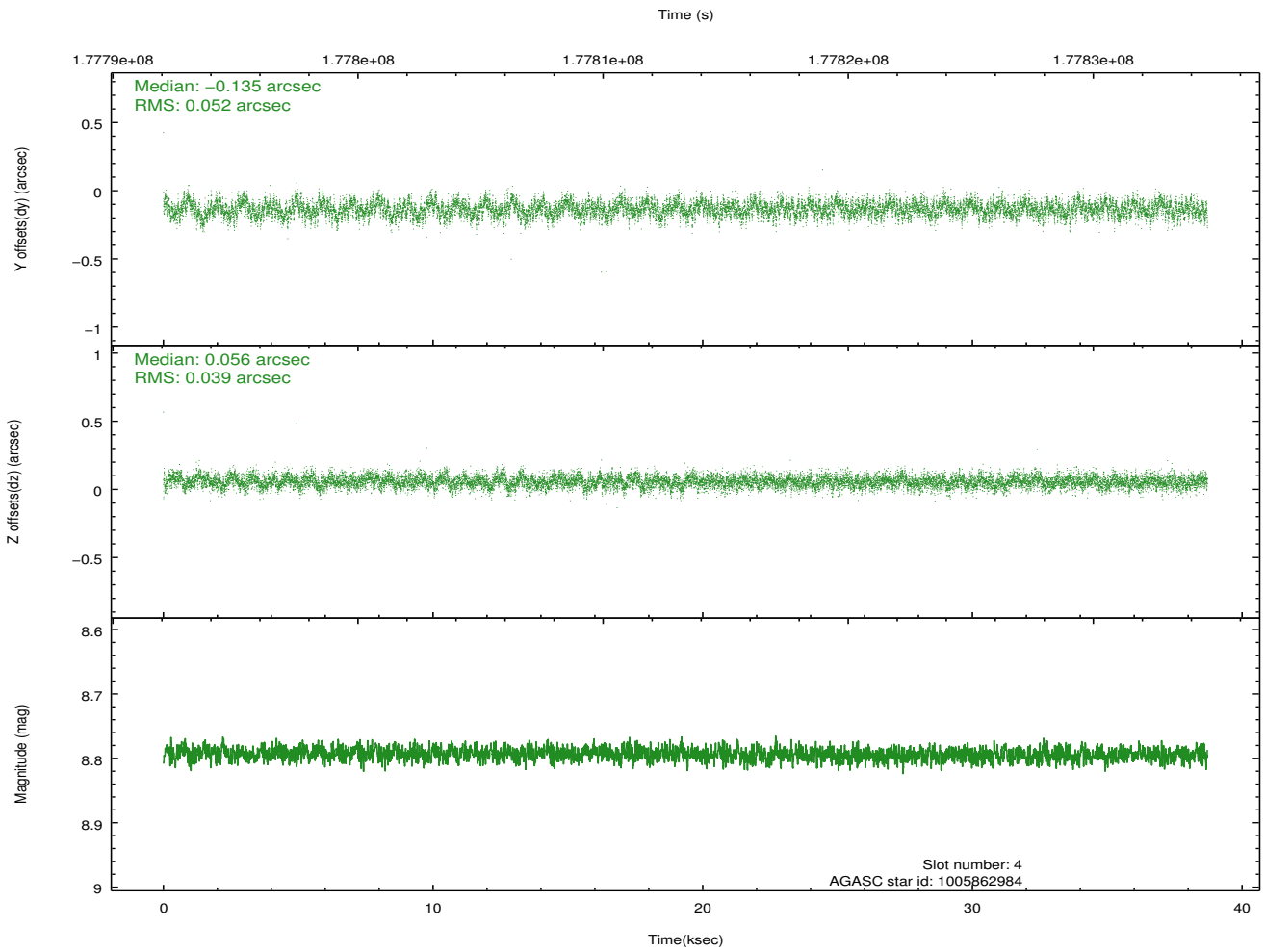
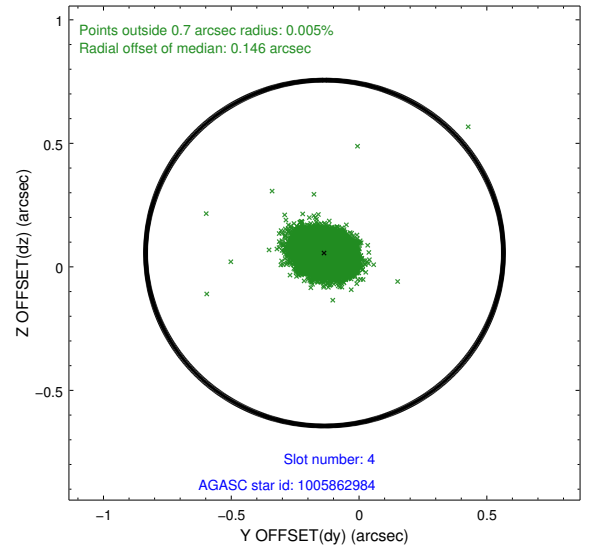
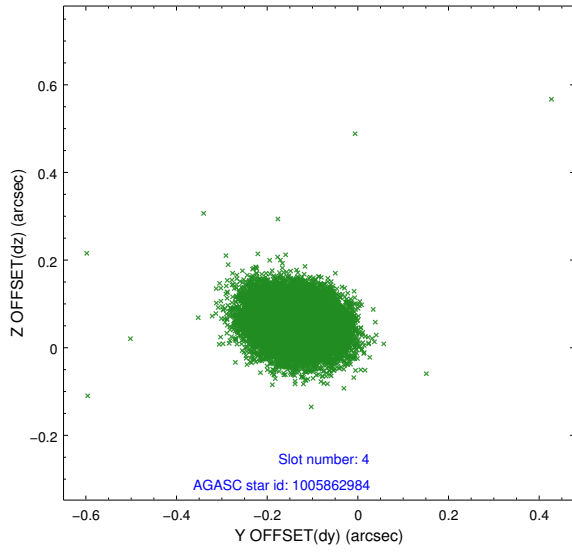
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2.4 Star Slots

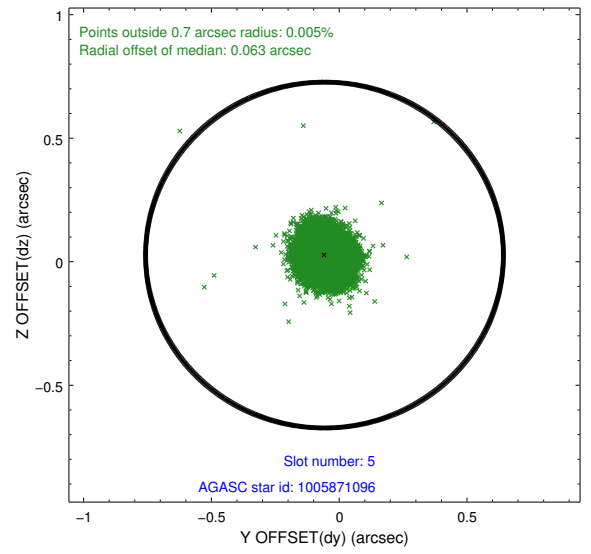
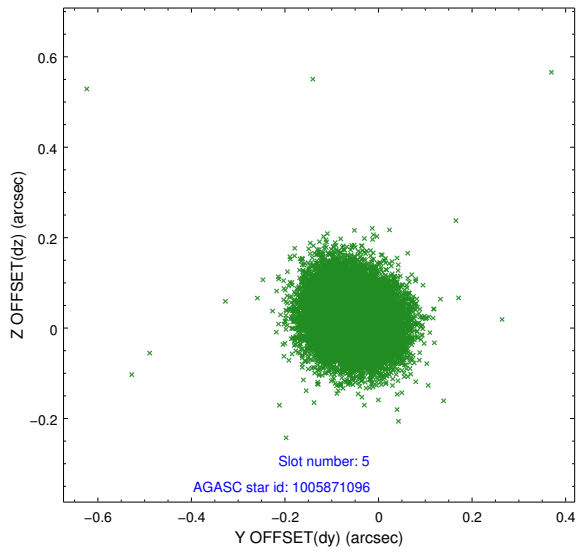
2.4.1 Slot 3



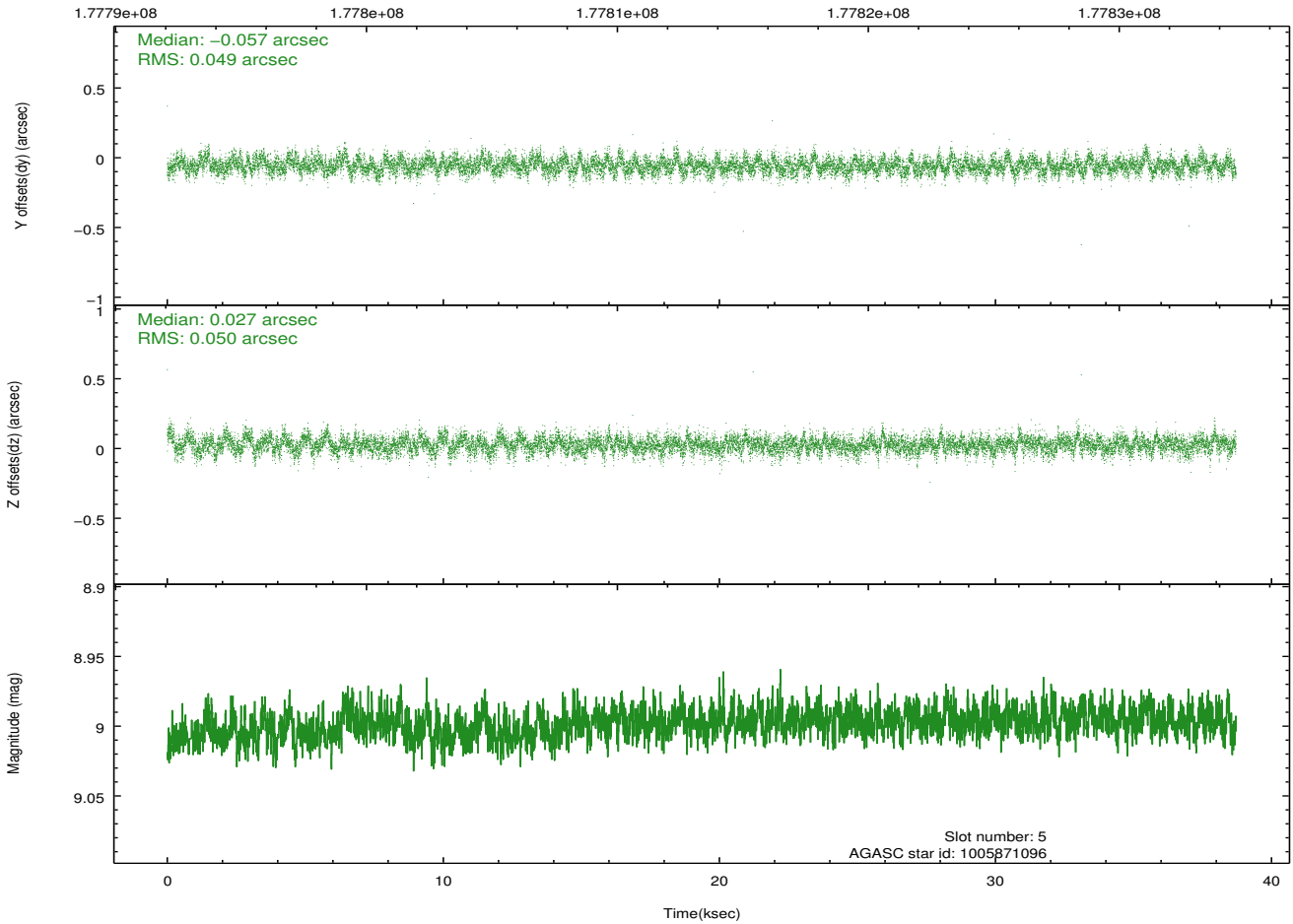
2.4.2 Slot 4



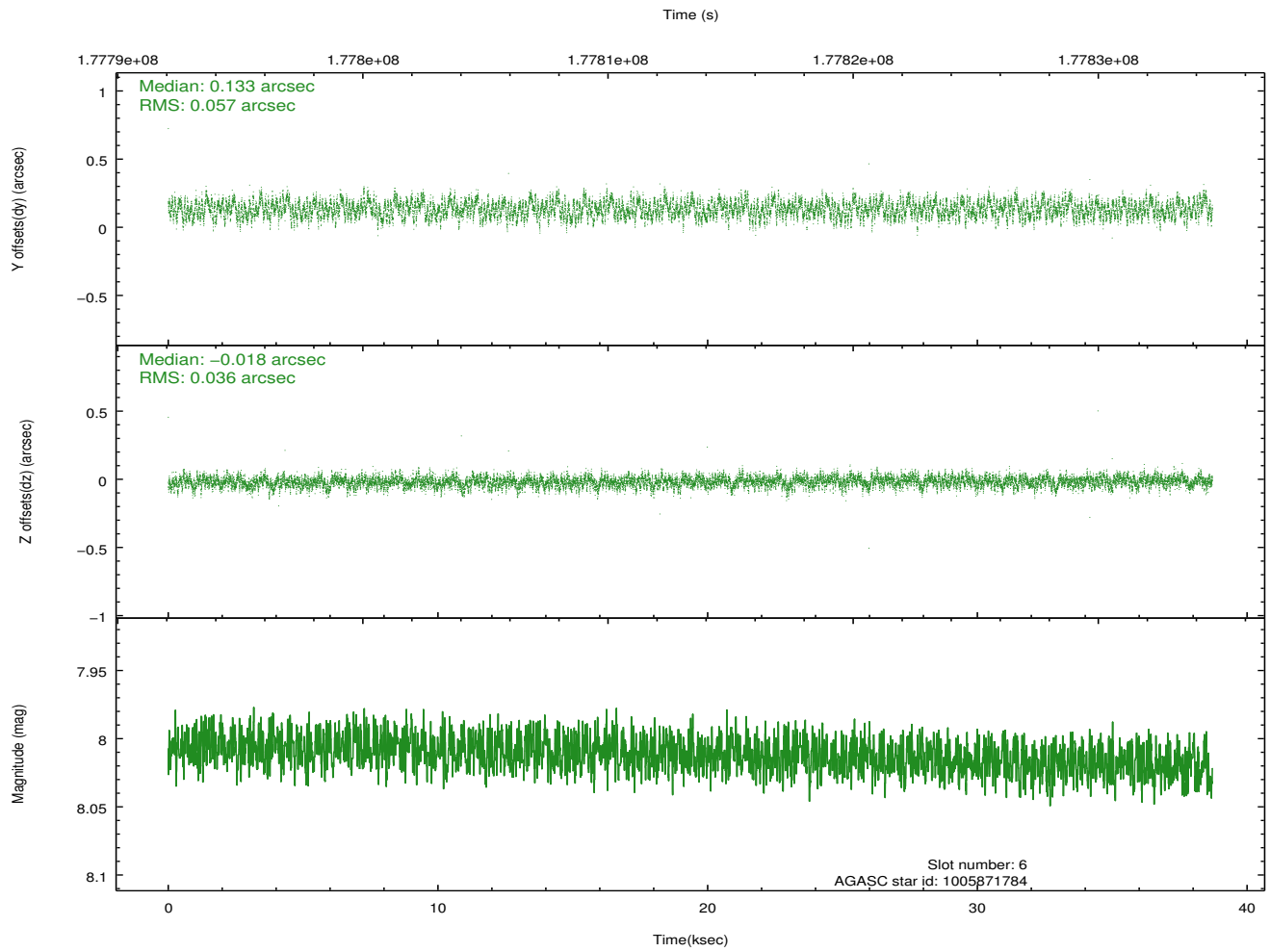
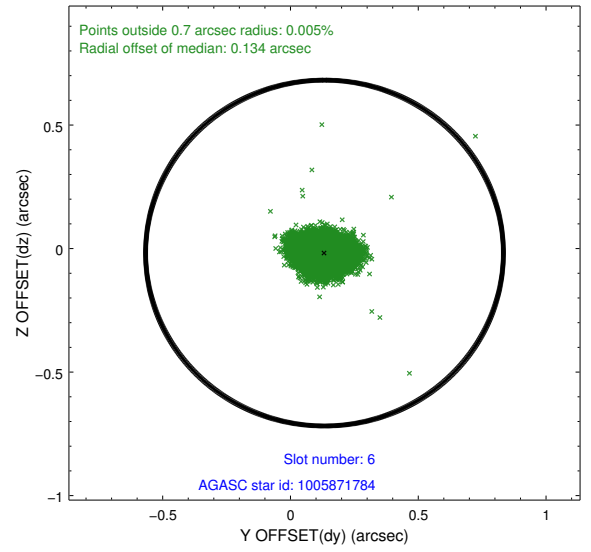
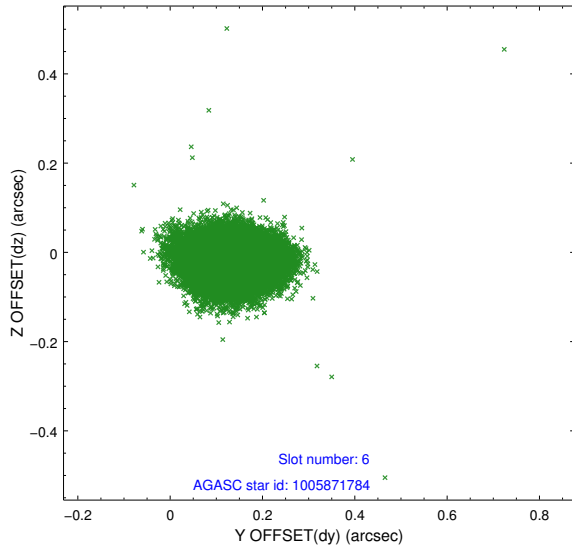
2.4.3 Slot 5



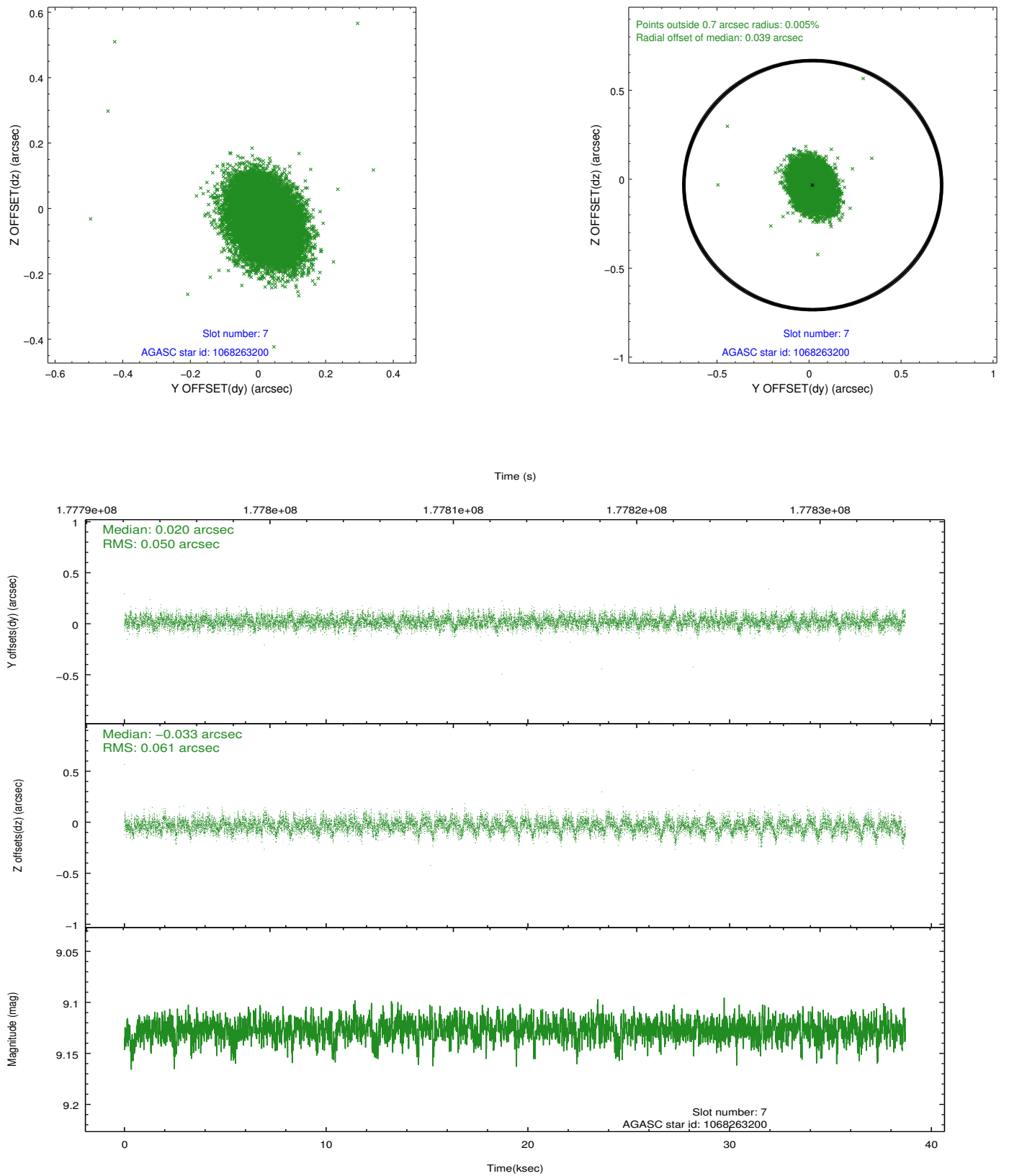
Time (s)



2.4.4 Slot 6

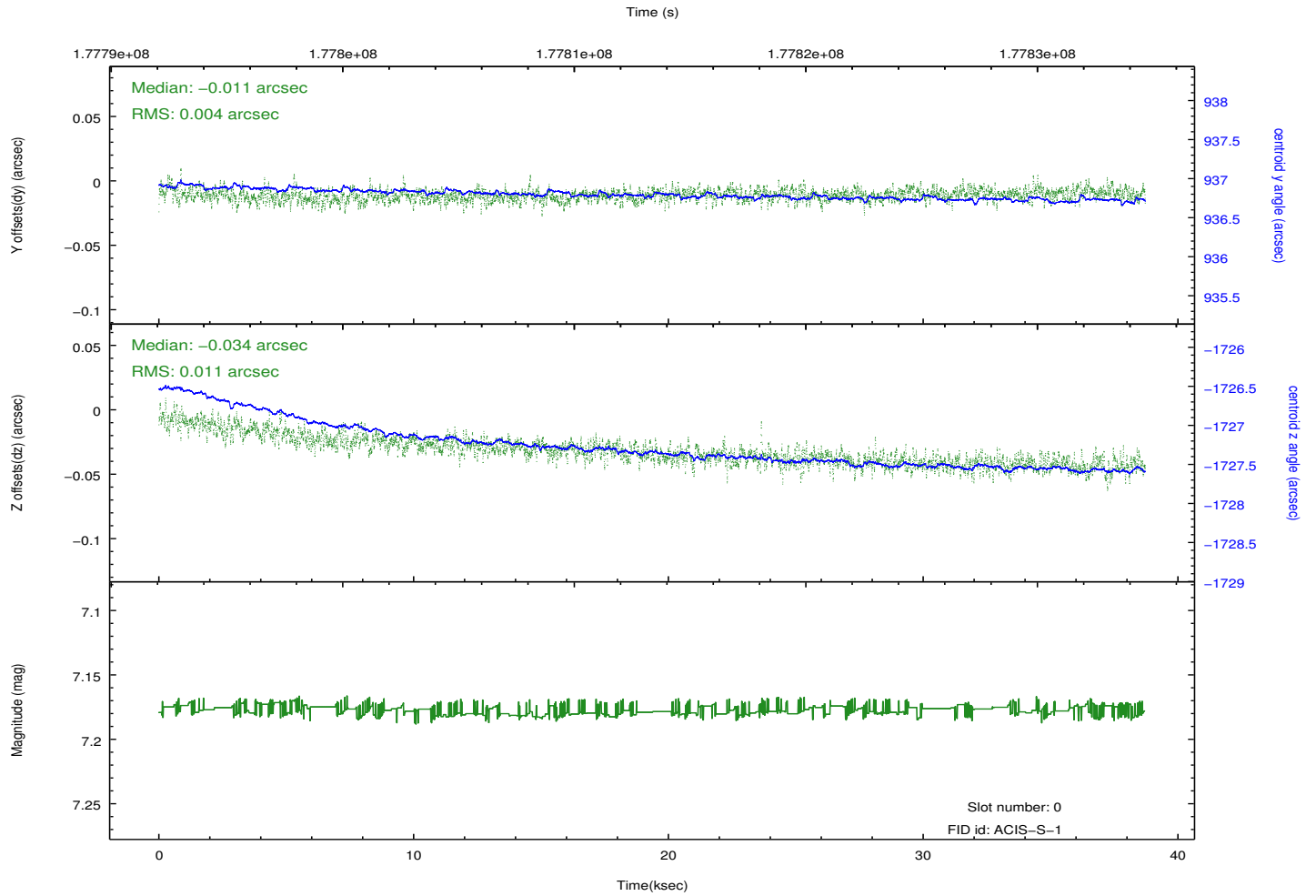
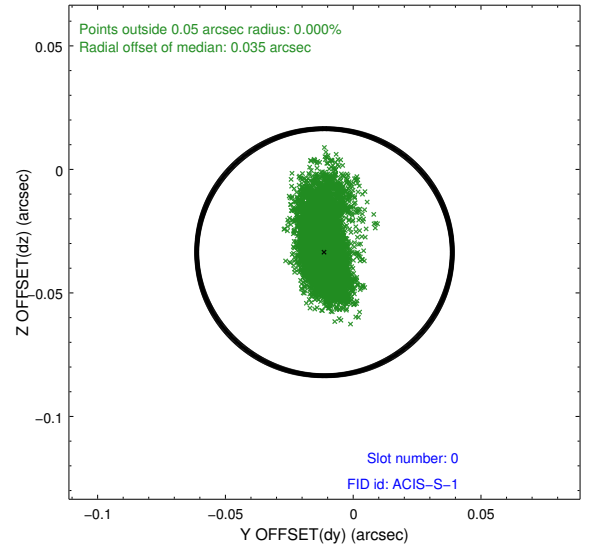
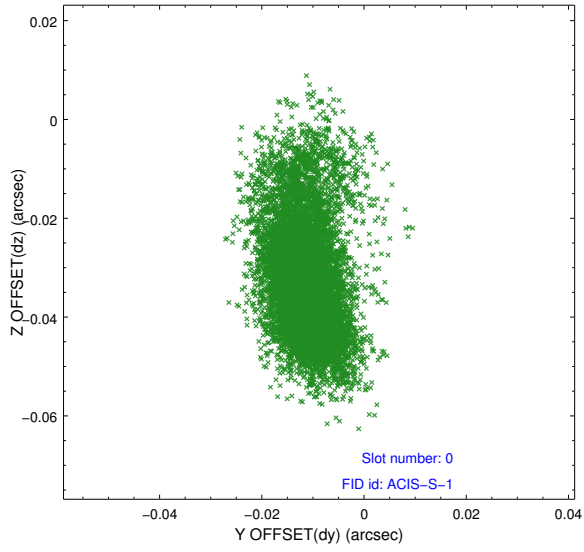


2.4.5 Slot 7

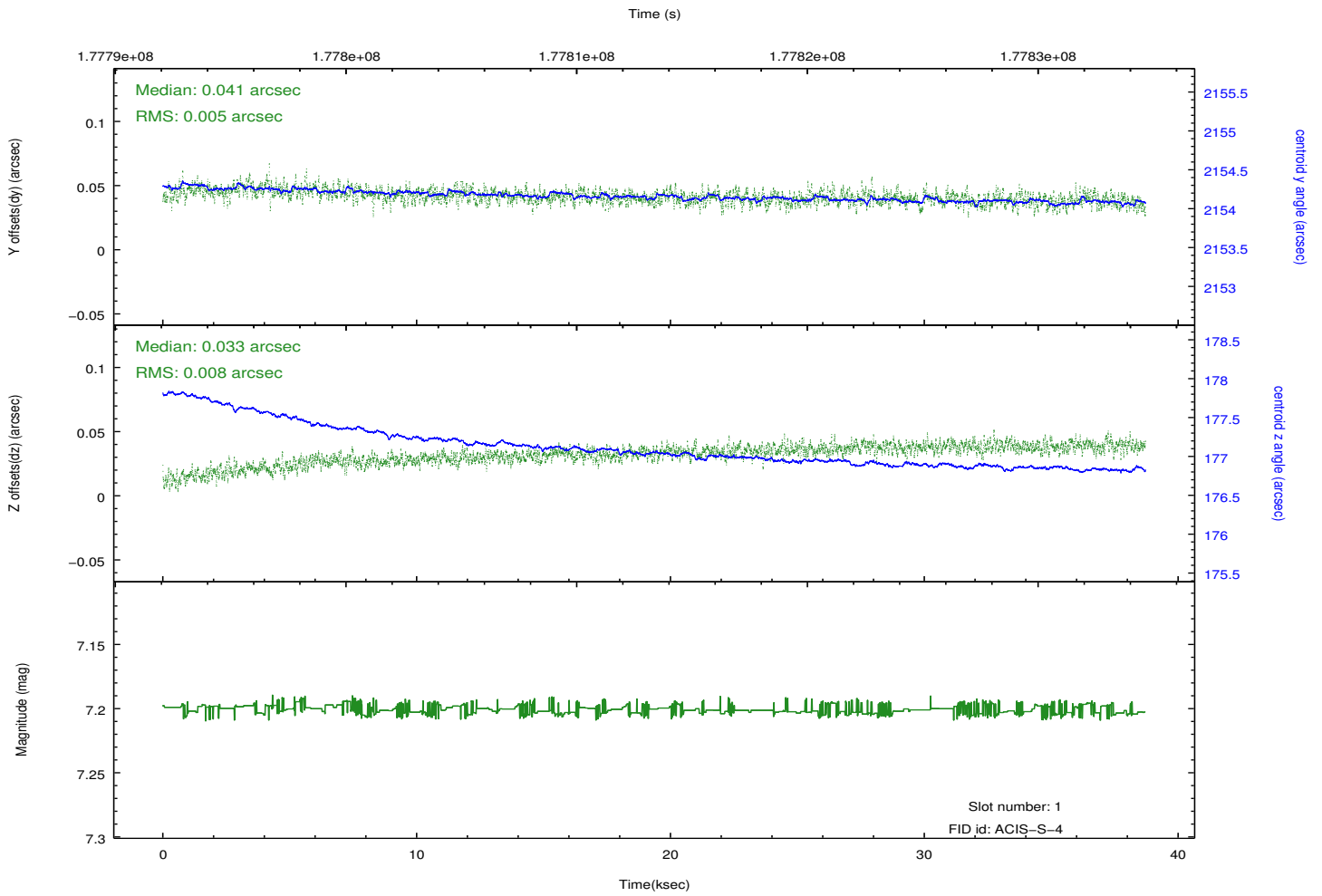
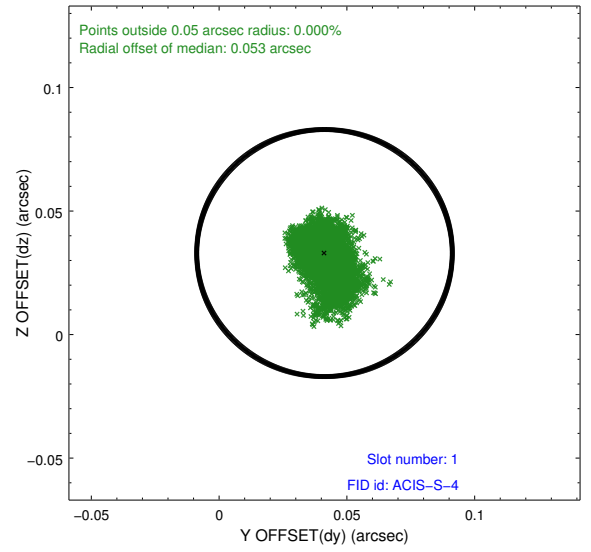
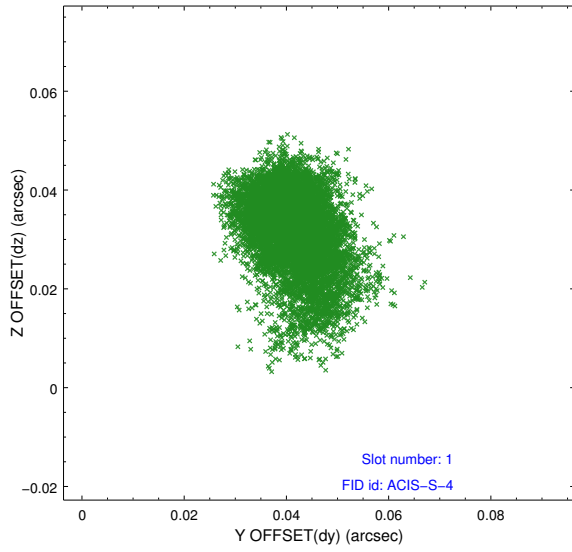


2.5 FID Slots

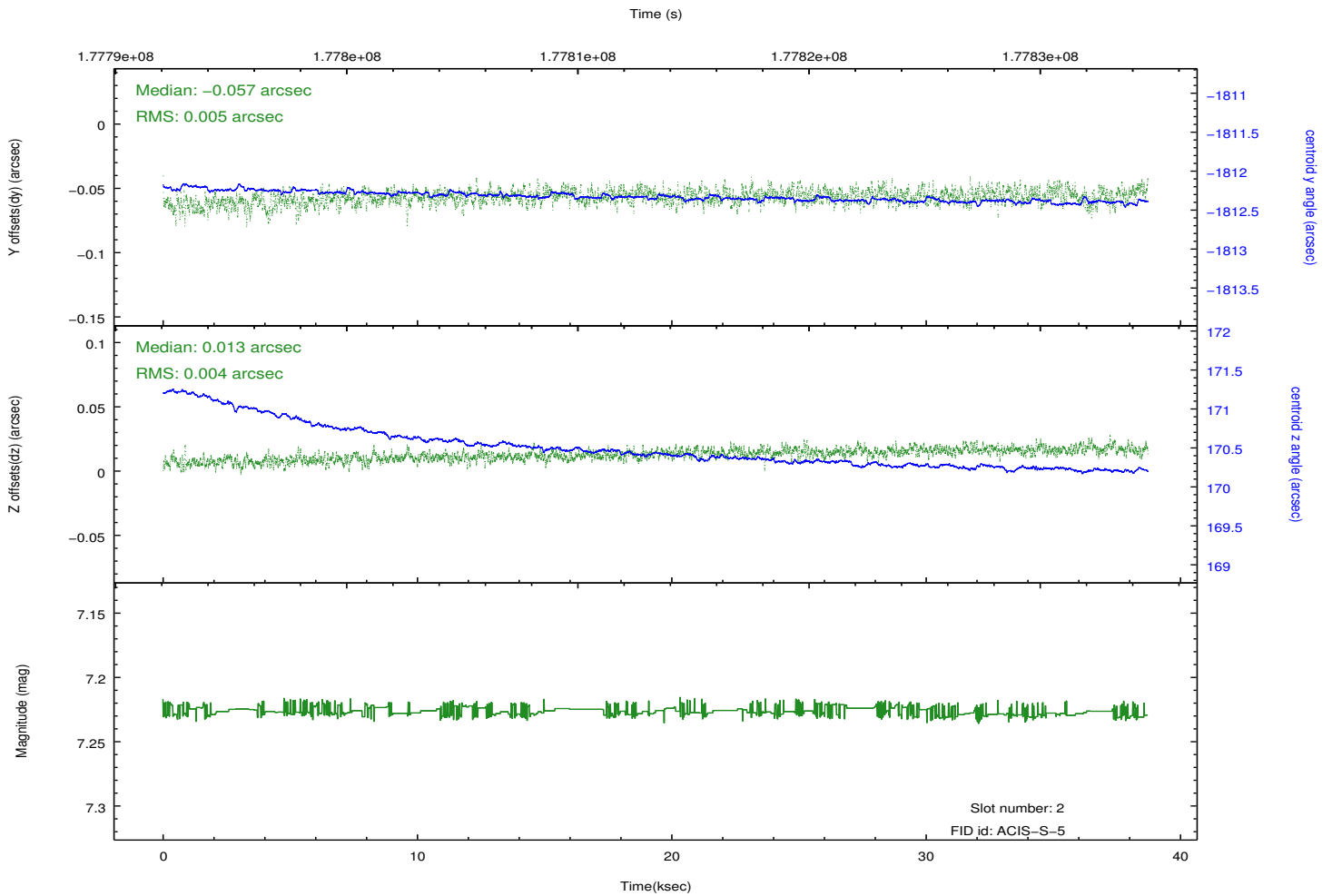
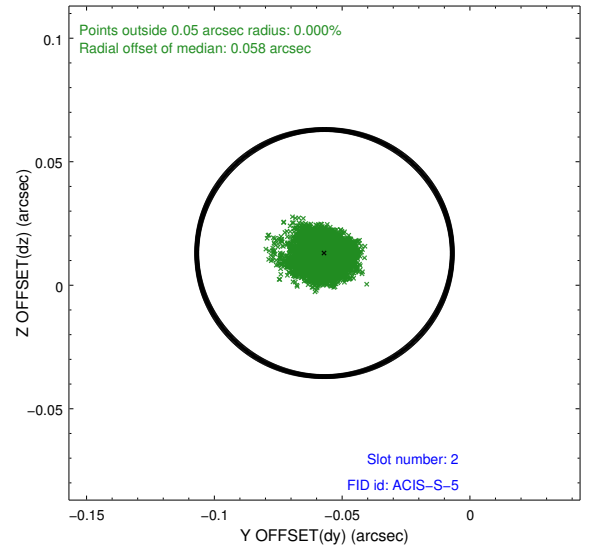
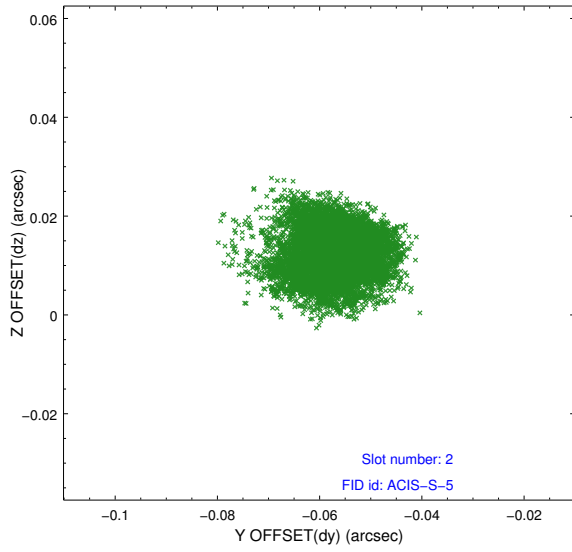
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.11.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.709

A.2 Comments