

# V&V Reference Report

## L2 ASCDS Version : 10.2.2

Observation 16625 - L2 Version 2  
Chandra X-Ray Center

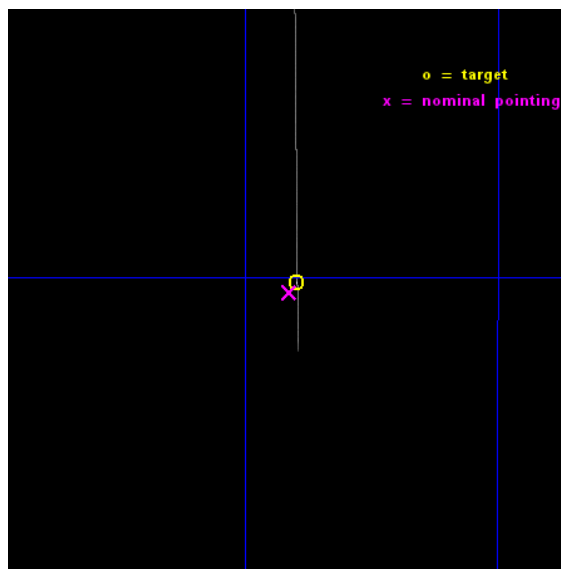
L2 Processing Date : Dec 12 2014

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# 1 Front

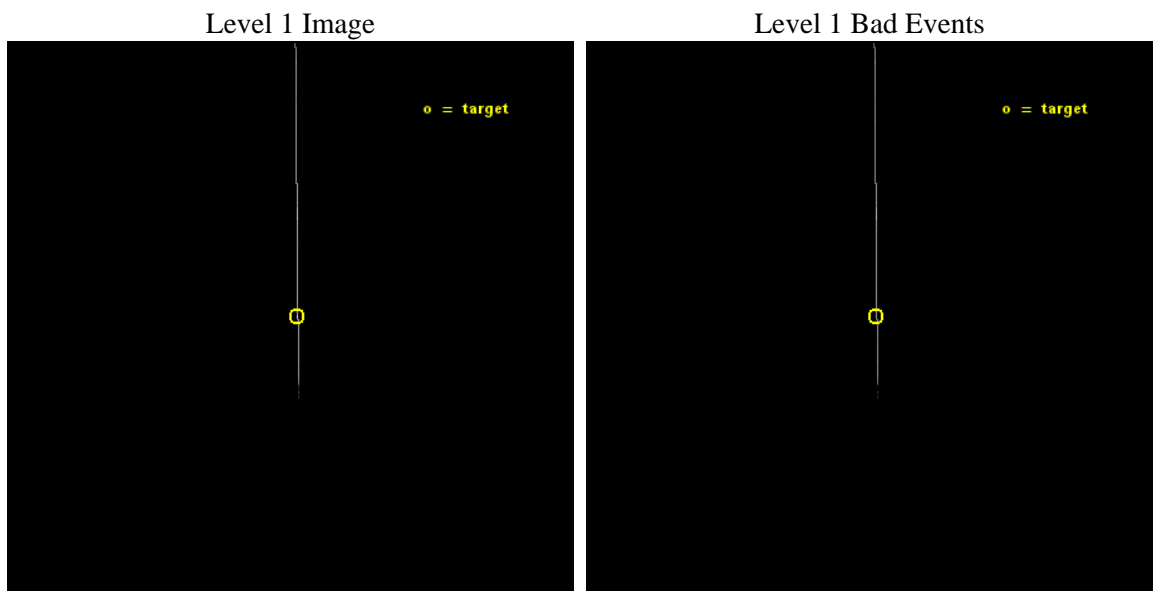
seq_num	401615	Sequence number
obs_id	16625	Observation id
title	Chandra/H.E.S.S. follow-up of PSR B1259-63 gamma-ray flare	Proposa
observer	Dr. Pol Bordas	Principal investigator
object	PSR B1259-63	Source name
ra_targ	195.698333	Observer's specified target RA [deg]
dec_targ	-63.835694	Observer's specified target Dec [deg]
ra_nom	195.70574910358	Nominal RA [deg]
dec_nom	-63.839890058813	Nominal Dec [deg]
roll_nom	269.41864852802	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5147.25	Sum of GTIs [s]
livetime	5127.1435546875	Livetime [s]
ontime7	5147.25	Sum of GTIs [s]
l2events	21666	Number of level 2 events



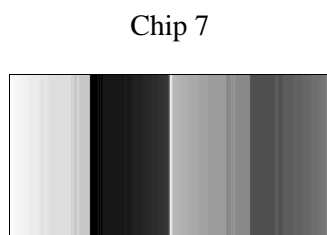
## 2 OBI

### 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	10.3.1	Processing system revision	ontime	5147.25	Sum of GTIs [s]
caldsver	4.6.4	&#160	ontime7	5147.25	Sum of GTIs [s]
date	2014-12-12T06:37:27	Date and time of file creation	l1events	56210	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	56210
rejected events	33859
rejected %	60%

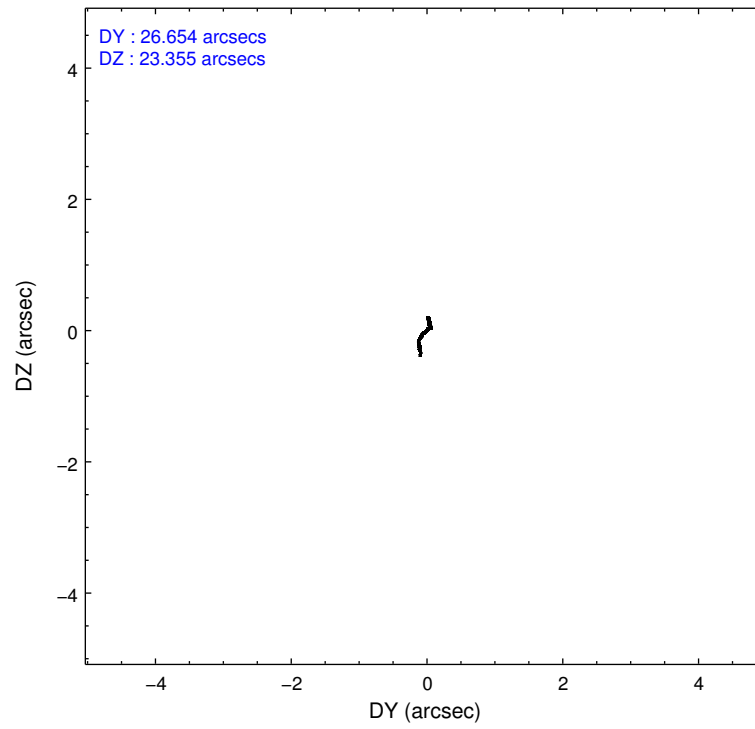
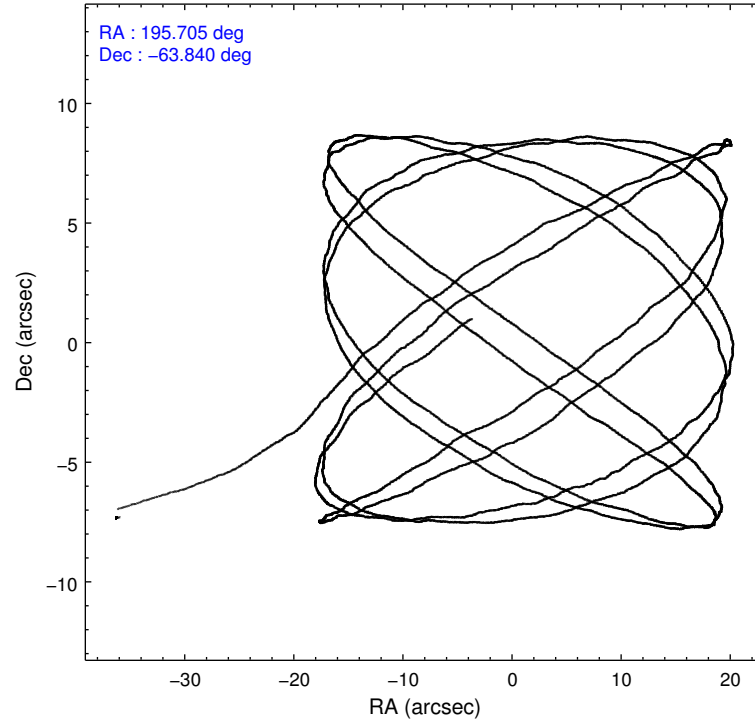
	<b>ccd 7</b>
grade 0 events	2598
	4%
grade 1 events	50
	0%
grade 2 events	6300
	11%
grade 3 events	1531
	2%
grade 4 events	1425
	2%
grade 5 events	3169
	5%
grade 6 events	10878
	19%
grade 7 events	30259
	53%

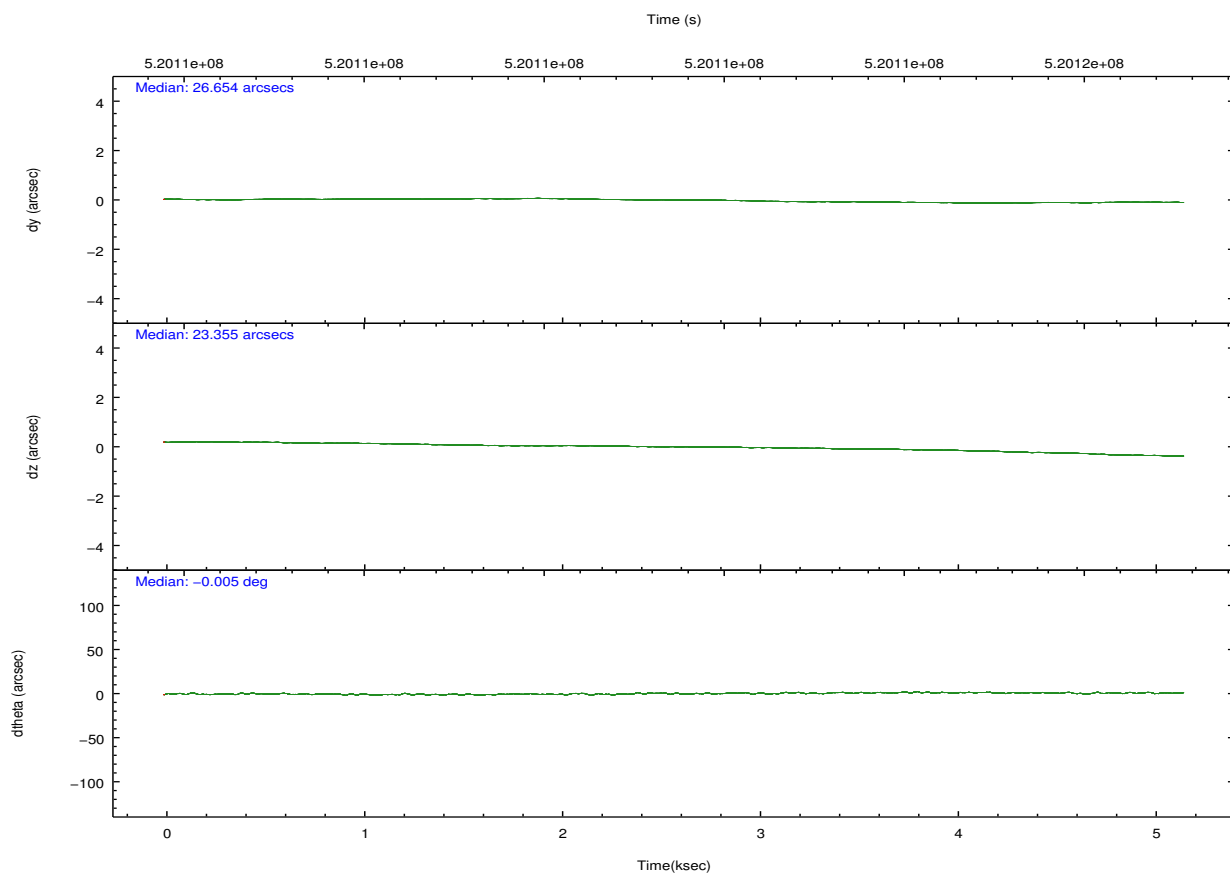
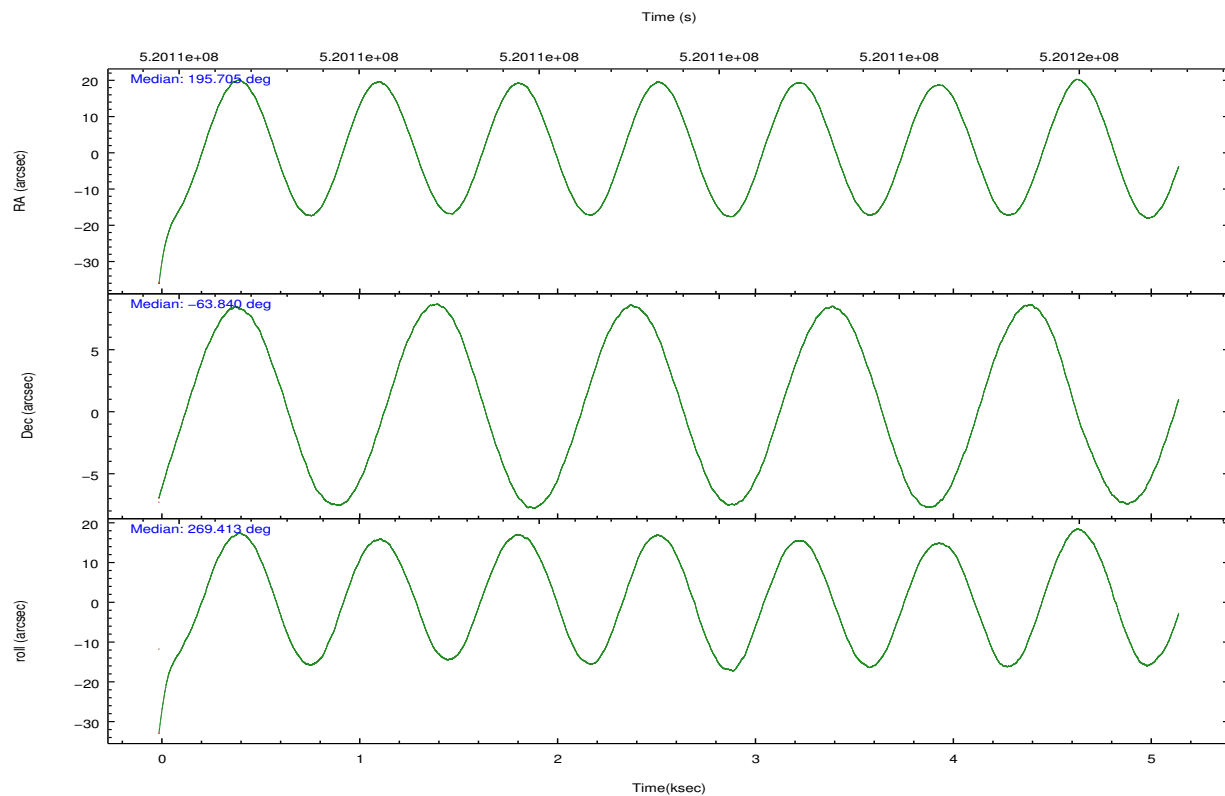


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	195.674724	195.7057491035803	Subarray requested	NONE	NONE
[deg] Pointing Dec	-63.816222	-63.83989005881303	Alternating exposures requested	N	N
[deg] Pointing Roll	269.234182	269.4186485280226	[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)	520110283.184000	520108999.06879			
Observation start date	2014-06-25T19:03:36	2014-06-25T18:43:19			
[s] Observation end time (MET)	520115283.184000	520116325.2567			
Observation end date	2014-06-25T20:26:56	2014-06-25T20:45:25			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Aspect



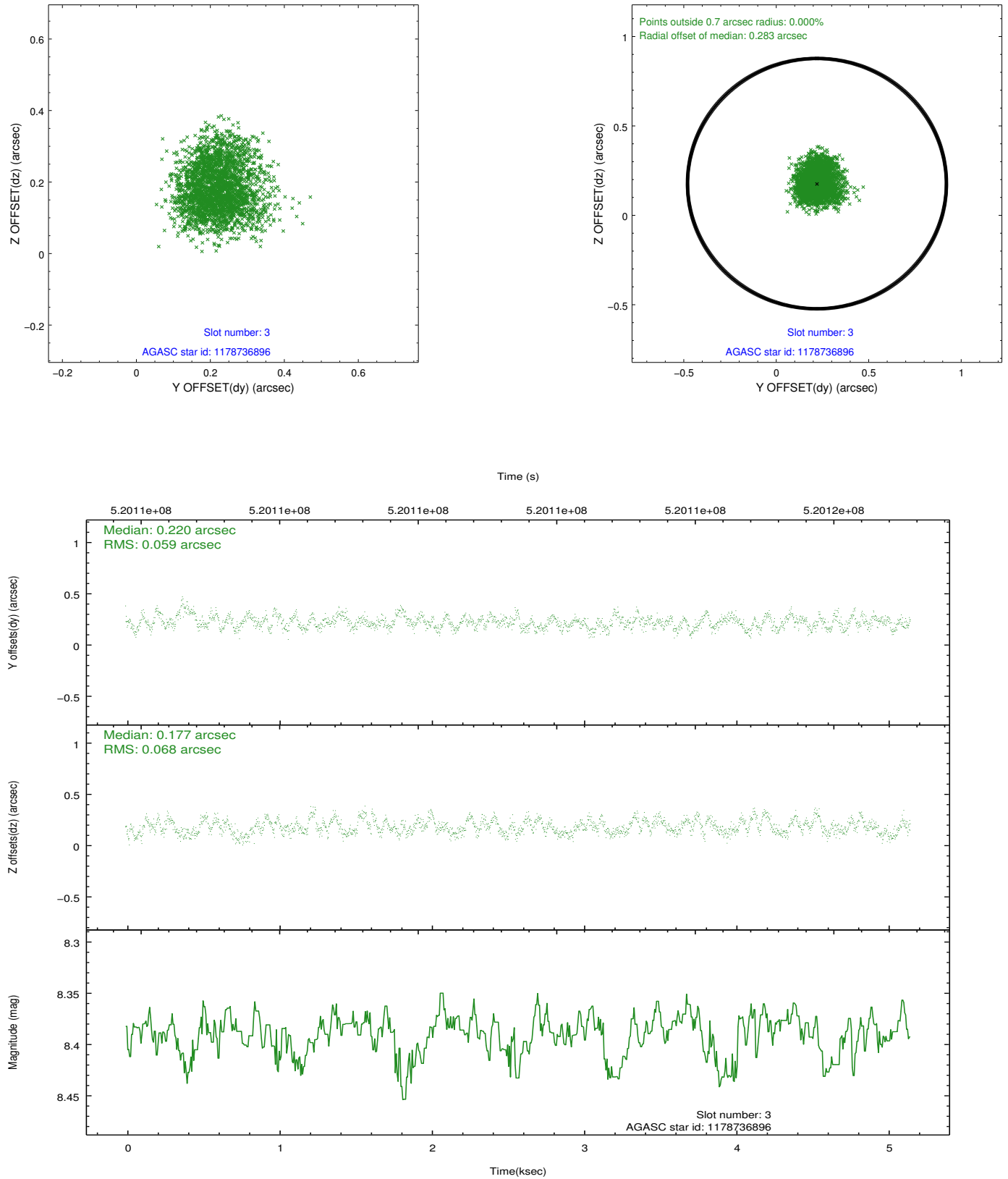


### Slot Statistics

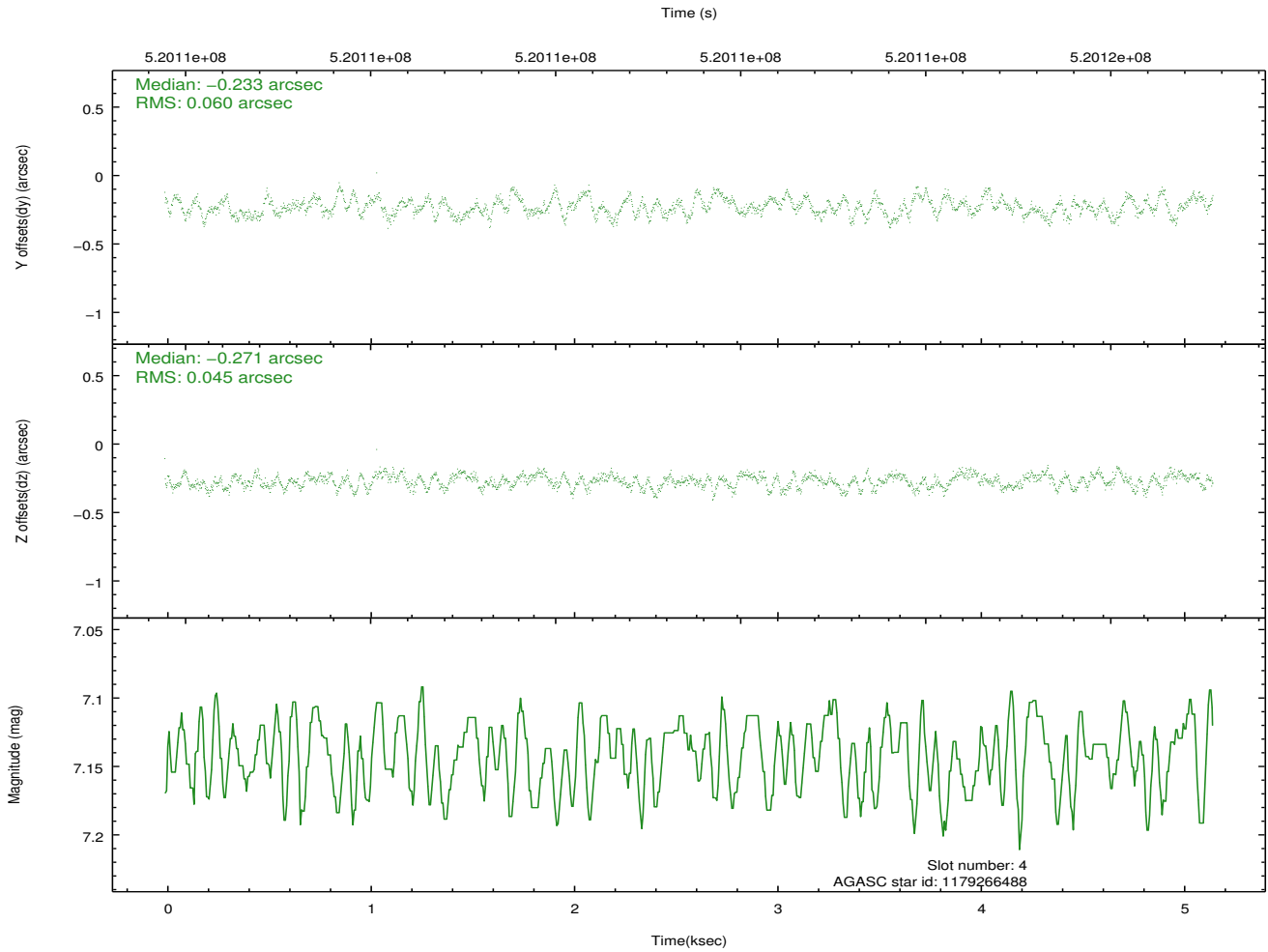
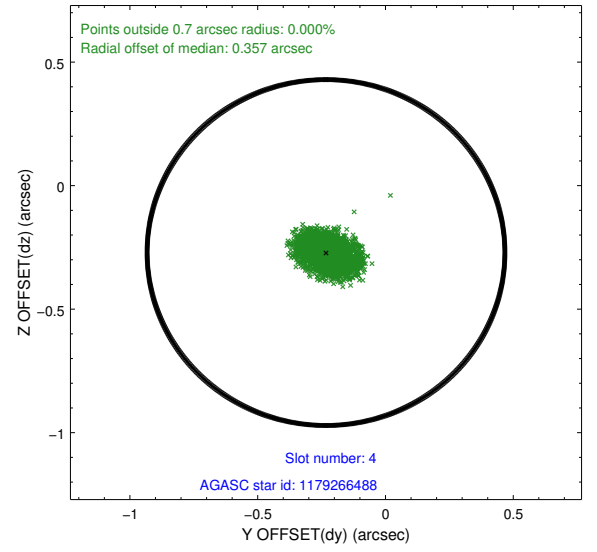
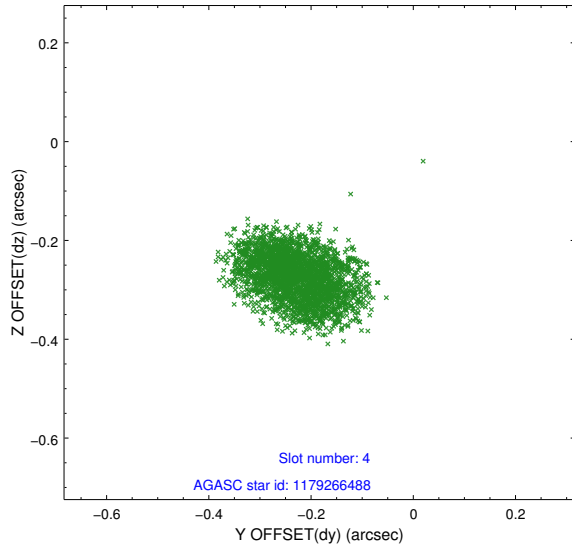
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.03	1258	-0.054	0.040	0.006	0.011	0.000000	0.000000	916.06	-1740.53
1	FID		ACIS-S-4	7.03	1258	0.153	0.004	0.006	0.010	0.000000	0.000000	2134.32	162.37
2	FID		ACIS-S-6	7.16	1257	-0.123	-0.033	0.007	0.011	0.000000	0.000000	383.43	801.03
3	GUIDE	used	1178736896	8.39	2513	0.220	0.177	0.097	0.153	194.755483	-63.640622	-601.34	-1476.70
4	GUIDE	used	1179266488	7.14	2515	-0.233	-0.271	0.081	0.127	196.258505	-64.441584	2243.03	936.26
5	GUIDE	used	1178734856	8.20	2514	0.076	0.034	0.085	0.130	195.759625	-63.178913	-2294.71	108.05
6	GUIDE	used	1178878144	9.23	2513	-0.066	0.006	0.128	0.204	197.169234	-63.211551	-2181.71	2395.80
7	GUIDE	used	1179257016	7.25	2514	0.002	0.057	0.080	0.135	194.140559	-64.360891	2021.12	-2361.18

## 2.4 Star Slots

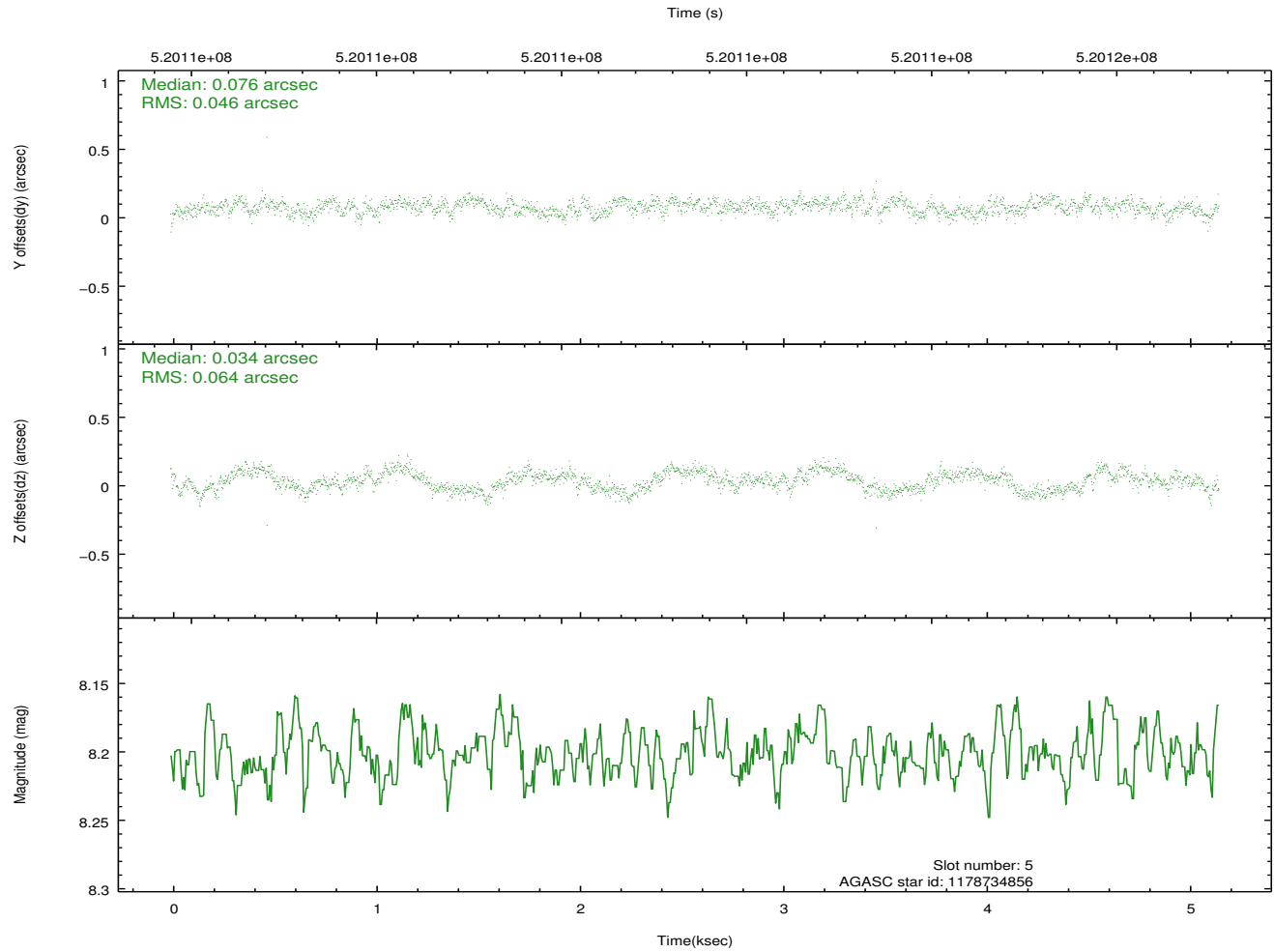
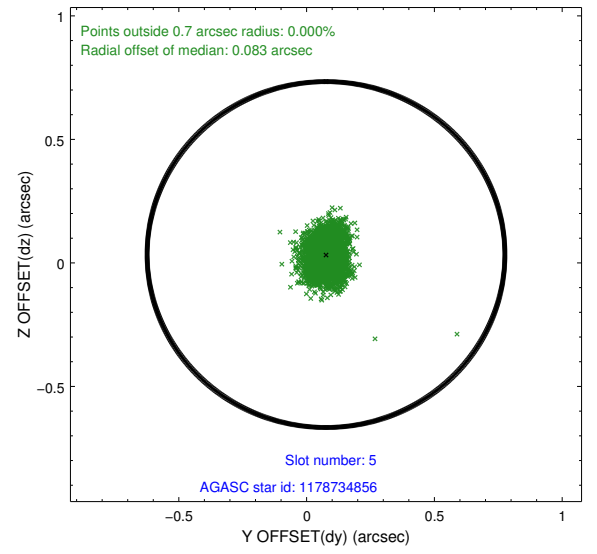
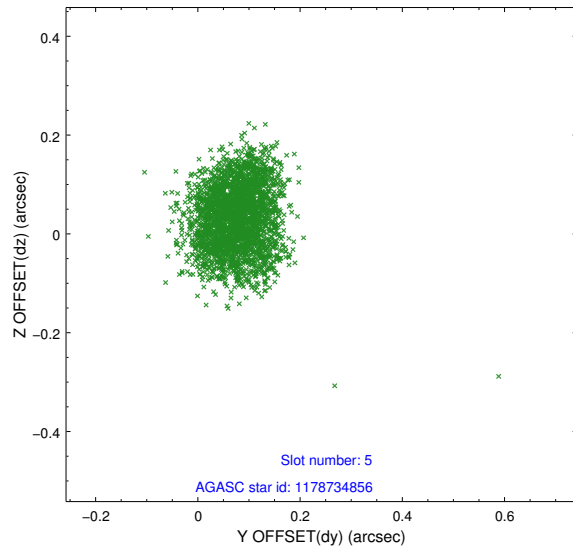
### 2.4.1 Slot 3



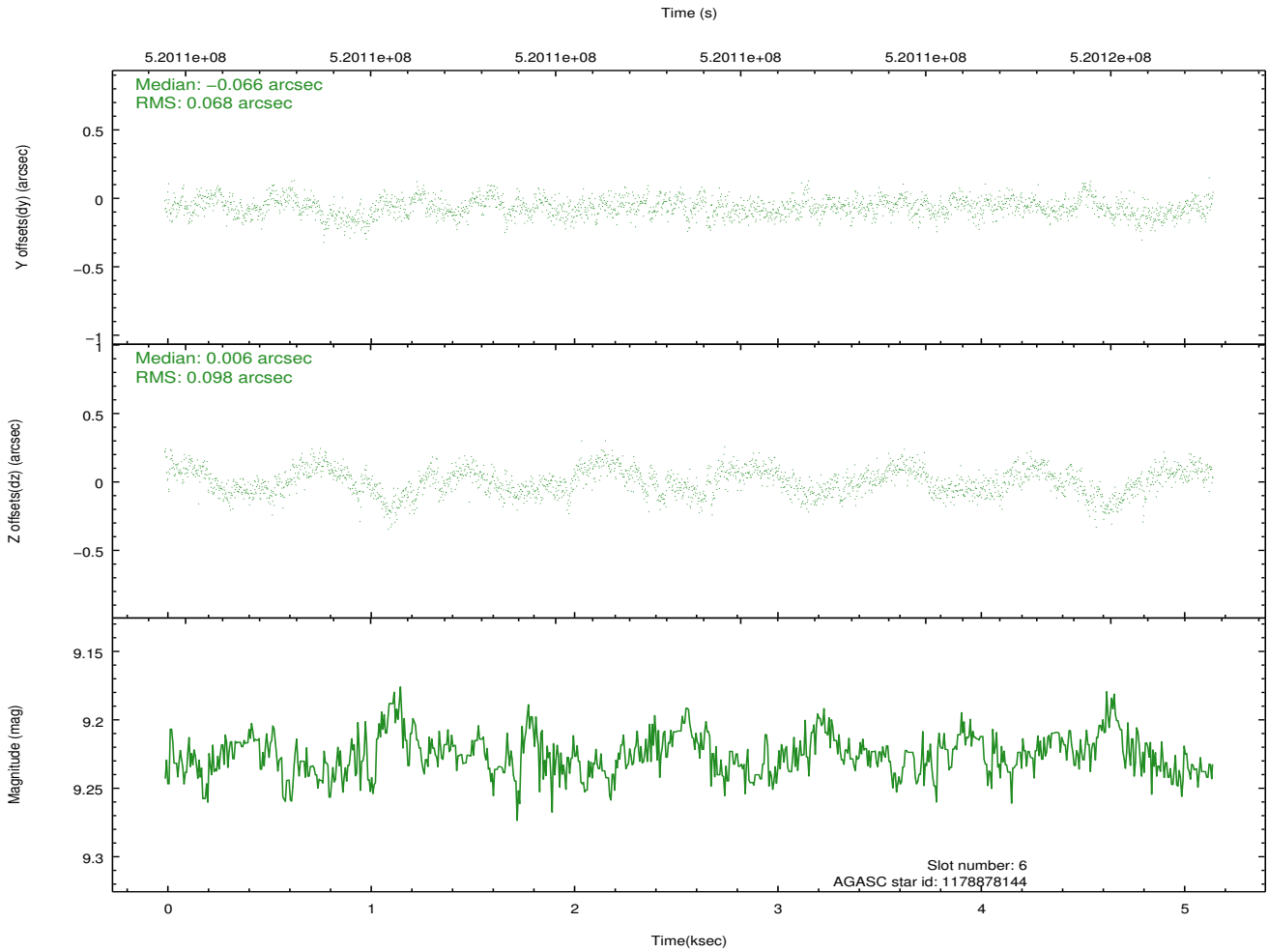
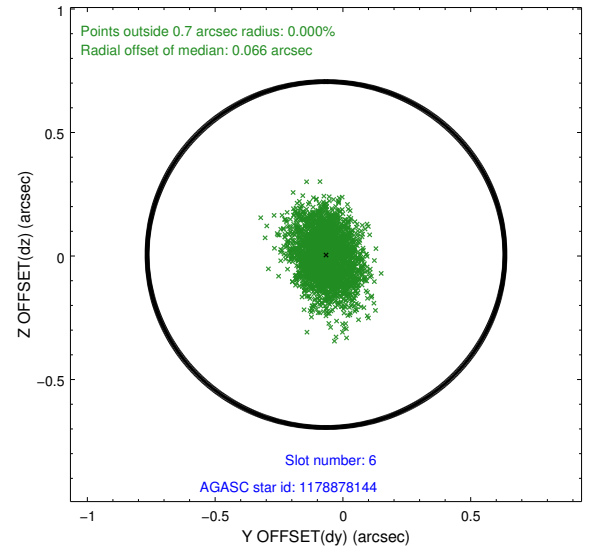
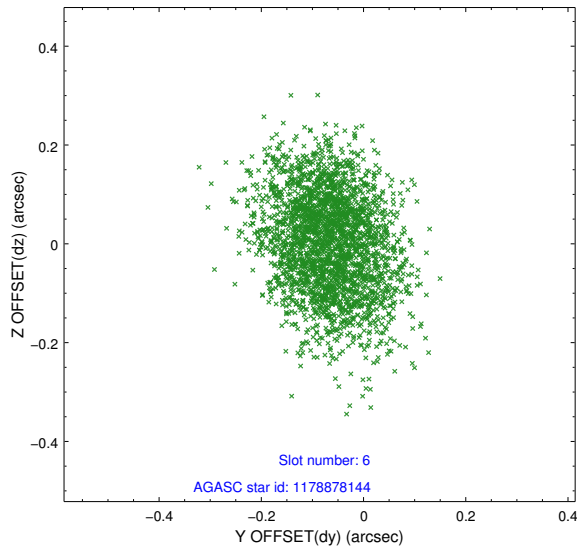
## 2.4.2 Slot 4



### 2.4.3 Slot 5

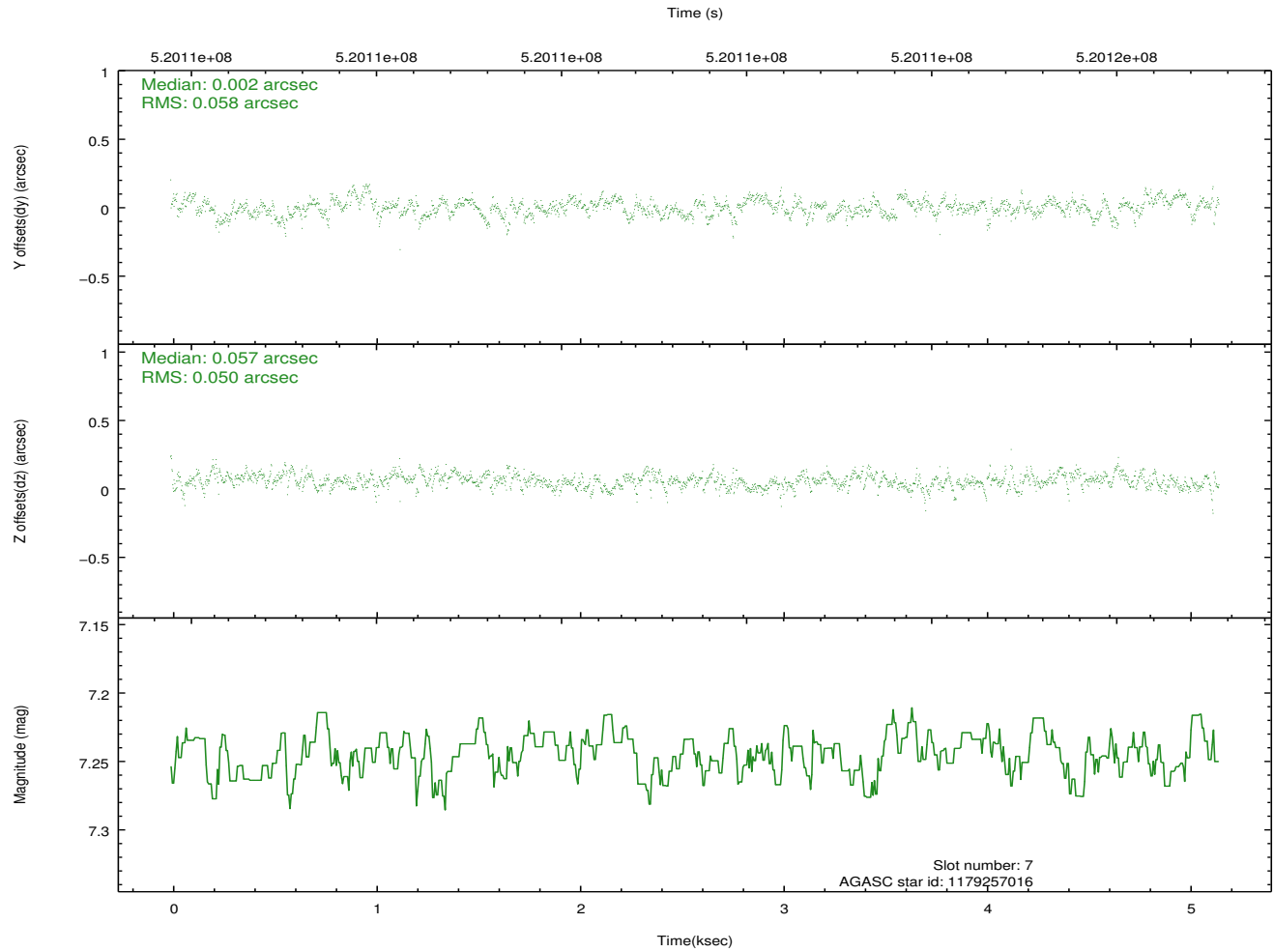
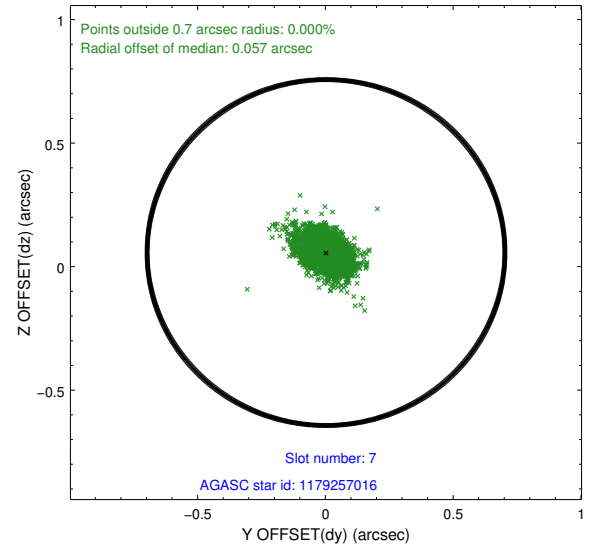
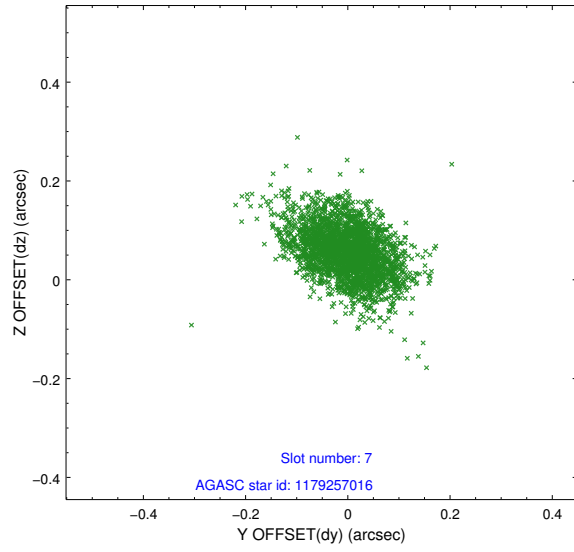


## 2.4.4 Slot 6



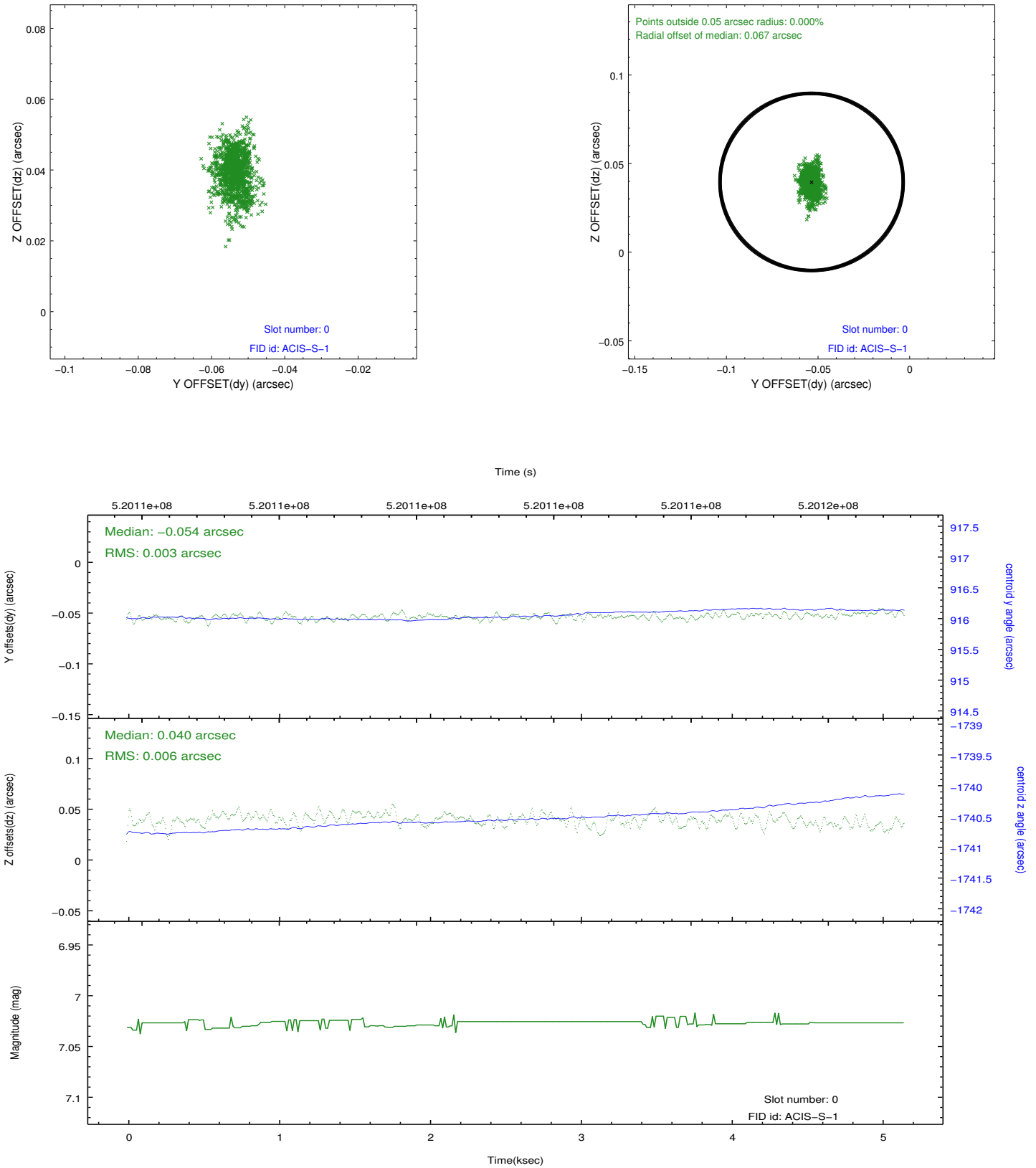


## 2.4.5 Slot 7

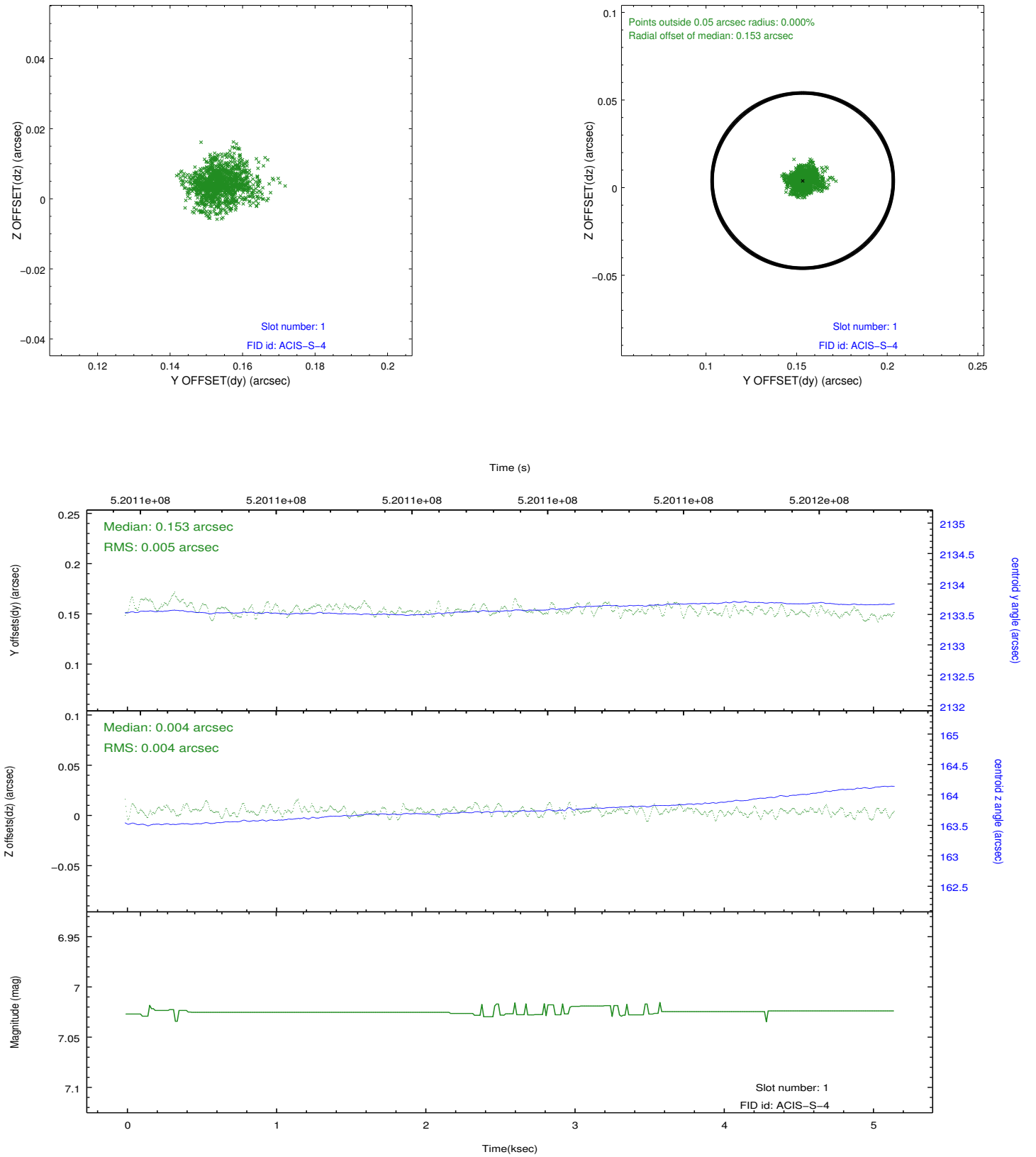


## 2.5 FID Slots

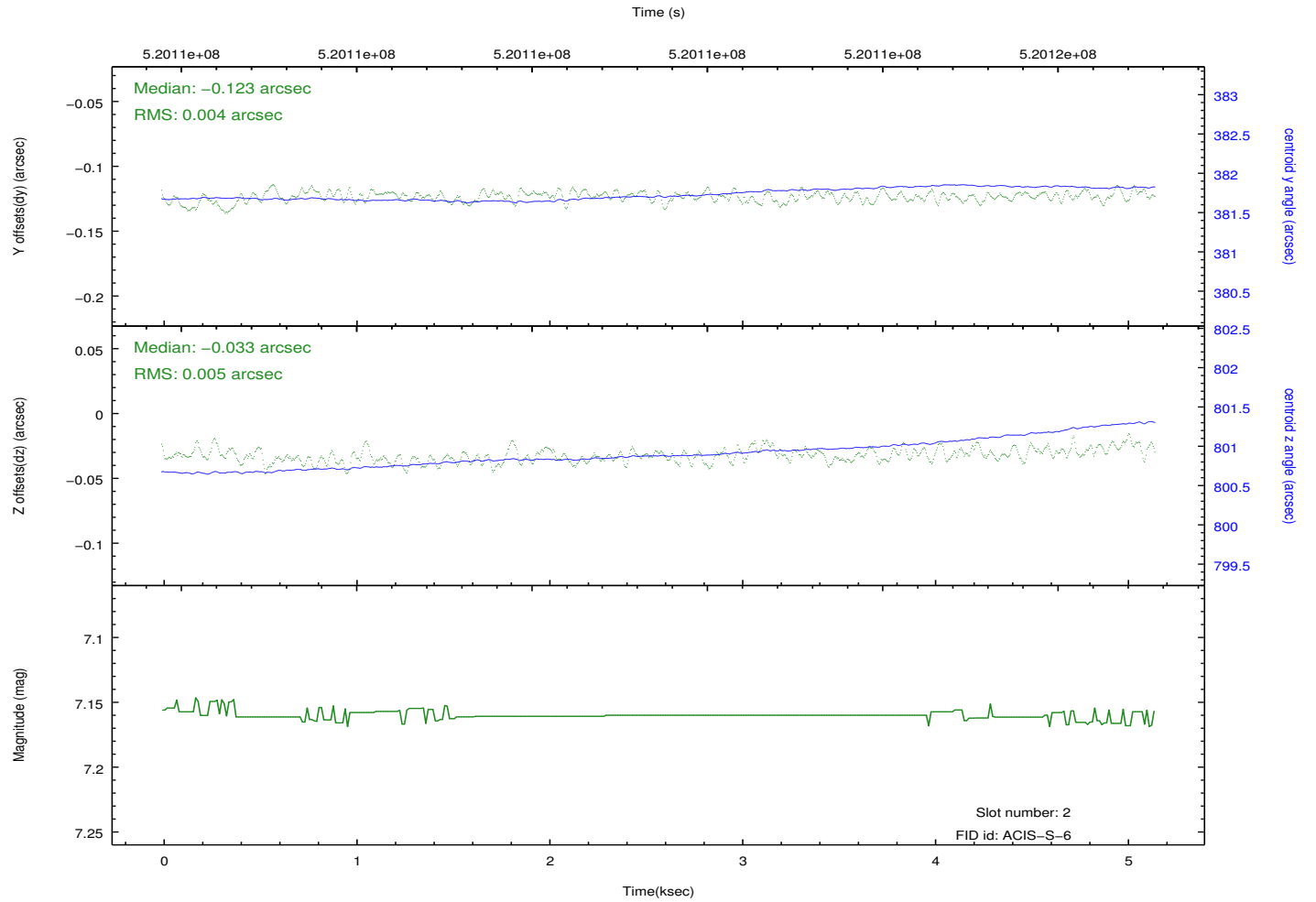
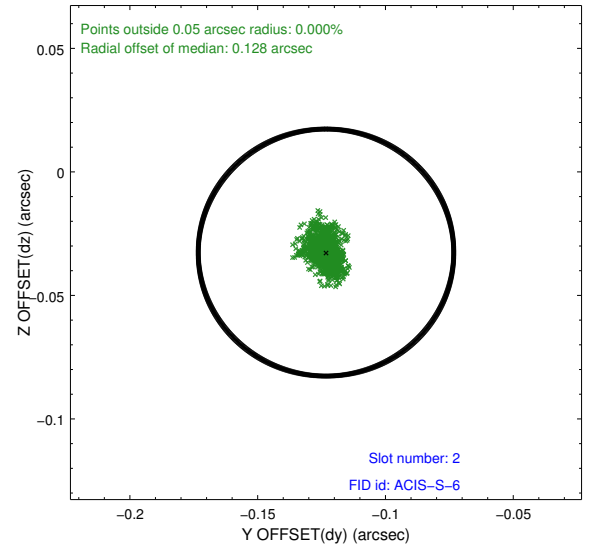
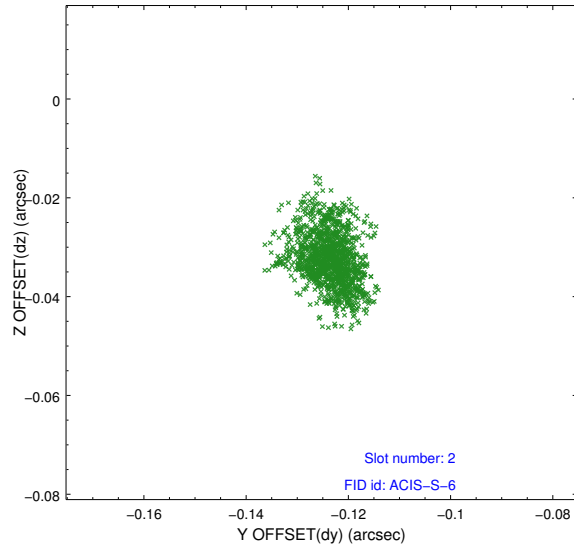
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.14725

## A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.