

V&V Reference Report

L2 ASCDS Version : 10.2.2

Observation 15784 - L2 Version 2
Chandra X-Ray Center

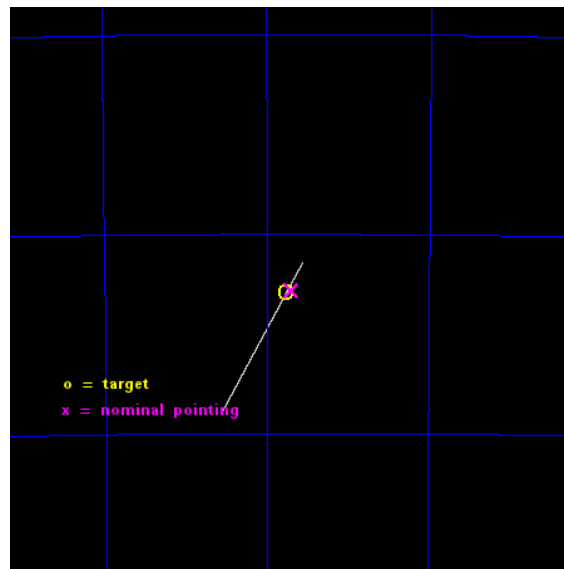
L2 Processing Date : Dec 11 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

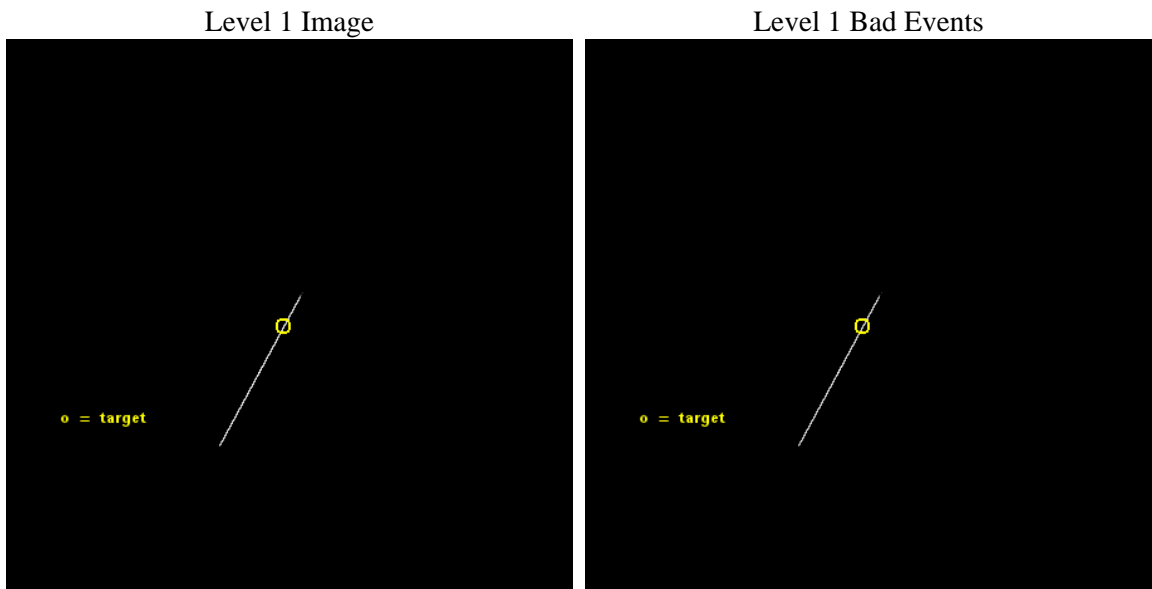
seq_num	401581	Sequence number
obs_id	15784	Observation id
title	Chandra's study of the slow pulsar SXP1062 associated with a young SNR in the SMC	Proposal title
observer	Dr. Lidia Oskinova	Principal investigator
object	SXP 1062	Source name
ra_targ	21.94125	Observer's specified target RA [deg]
dec_targ	-73.548972	Observer's specified target Dec [deg]
ra_nom	21.923786068619	Nominal RA [deg]
dec_nom	-73.54702743279	Nominal Dec [deg]
roll_nom	119.30707321795	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30183.25	Sum of GTIs [s]
livetime	30065.346679688	Livetime [s]
ontime7	30183.25	Sum of GTIs [s]
l2events	80299	Number of level 2 events



2 OBI

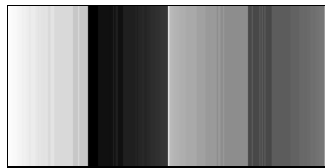
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	30183.25	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	30183.25	Sum of GTIs [s]
date	2014-12-12T03:37:40	Date and time of file creation	l1events	270756	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

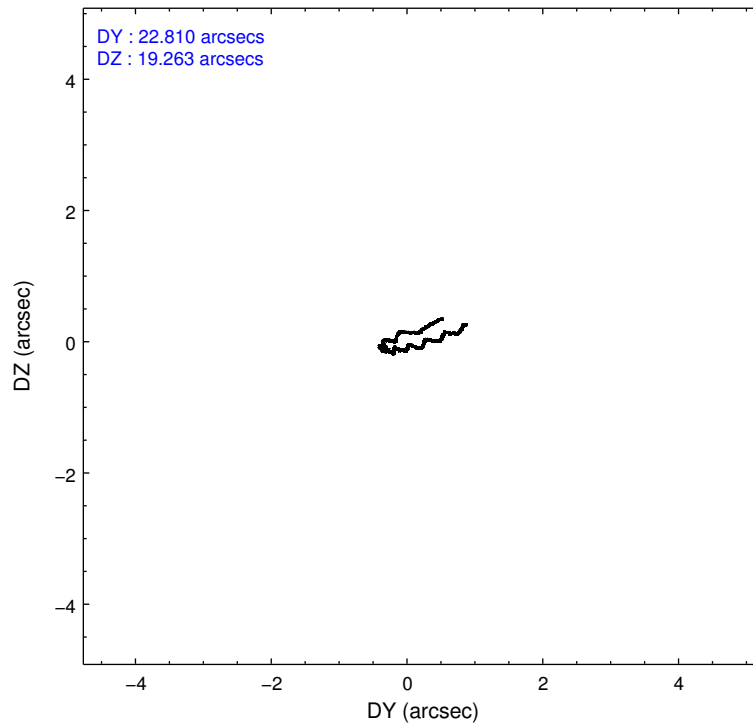
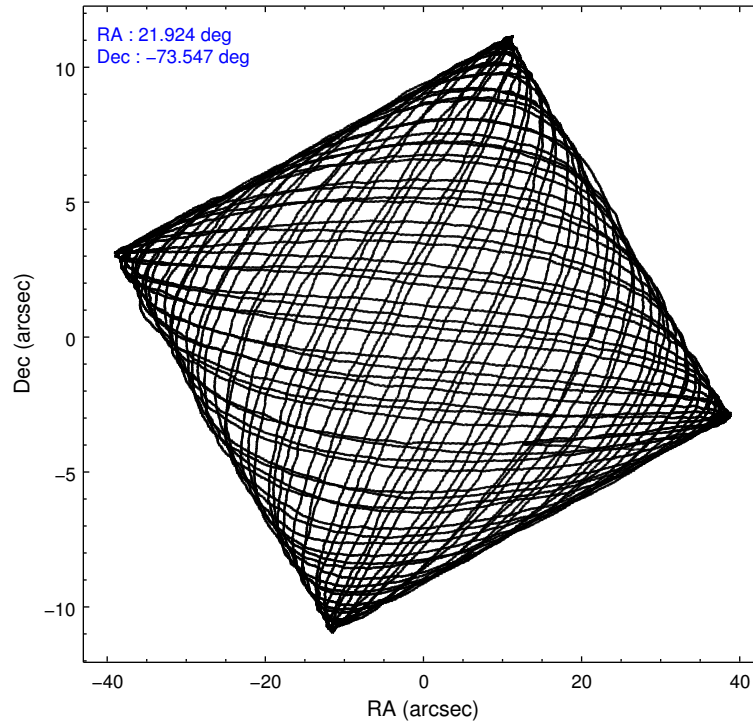
	ccd 7
level 1 events	270756
rejected events	186865
rejected %	69%

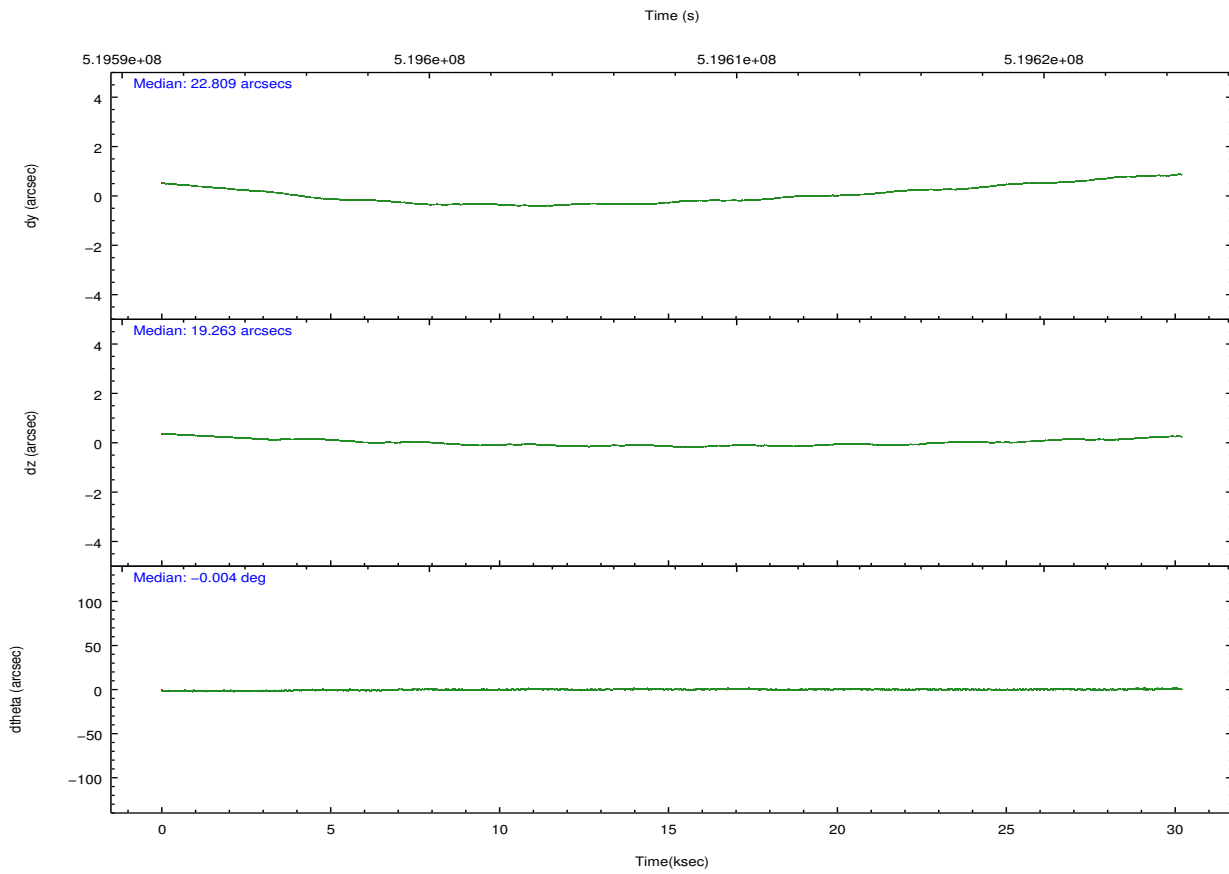
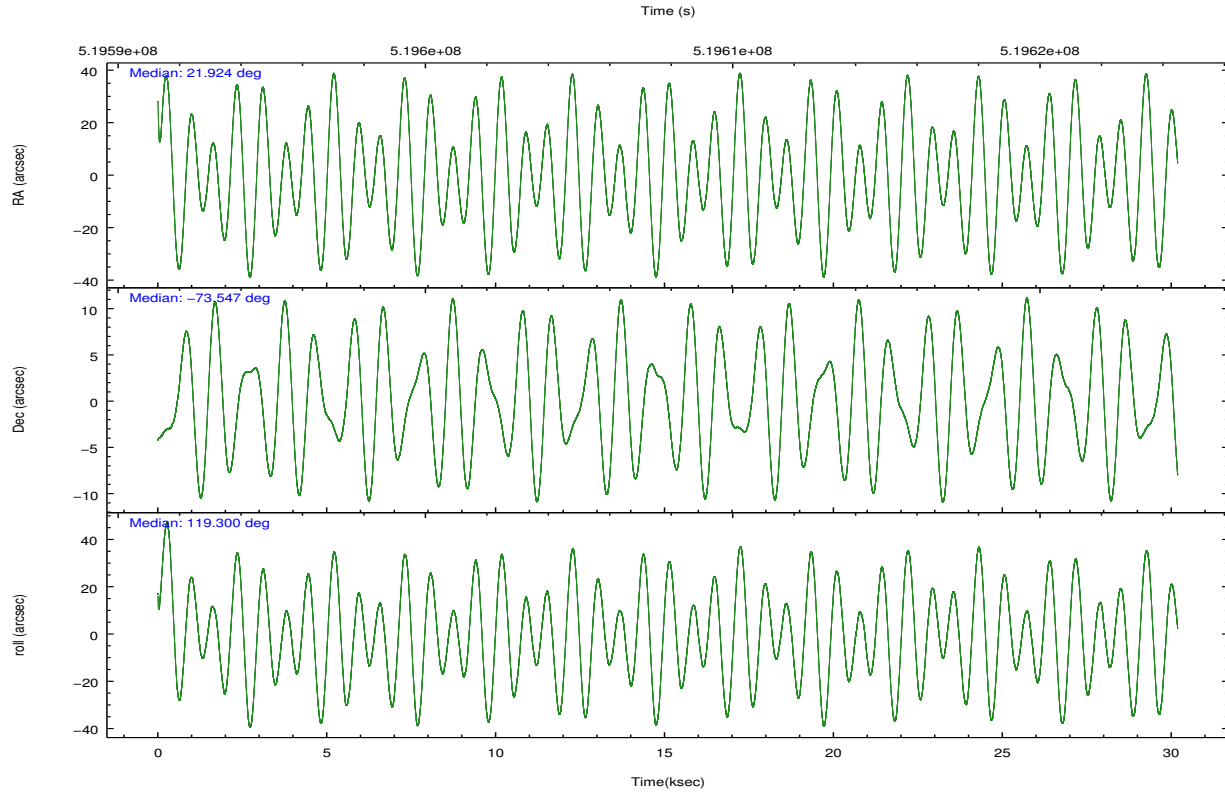
	ccd 7
grade 0 events	5488
	2%
grade 1 events	209
	0%
grade 2 events	22565
	8%
grade 3 events	4065
	1%
grade 4 events	3909
	1%
grade 5 events	17496
	6%
grade 6 events	47993
	17%
grade 7 events	169031
	62%

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	22.007451	21.92378606861905	Subarray requested	NONE	NONE
[deg] Pointing Dec	-73.560636	-73.54702743279006	Alternating exposures requested	N	N
[deg] Pointing Roll	119.230696	119.3070732179455	[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)	519592991.184000	519592073.09019			
Observation start date	2014-06-19T19:22:04	2014-06-19T19:07:53			
[s] Observation end time (MET)	519622991.184000	519623590.81694			
Observation end date	2014-06-20T03:42:04	2014-06-20T03:53:10			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect





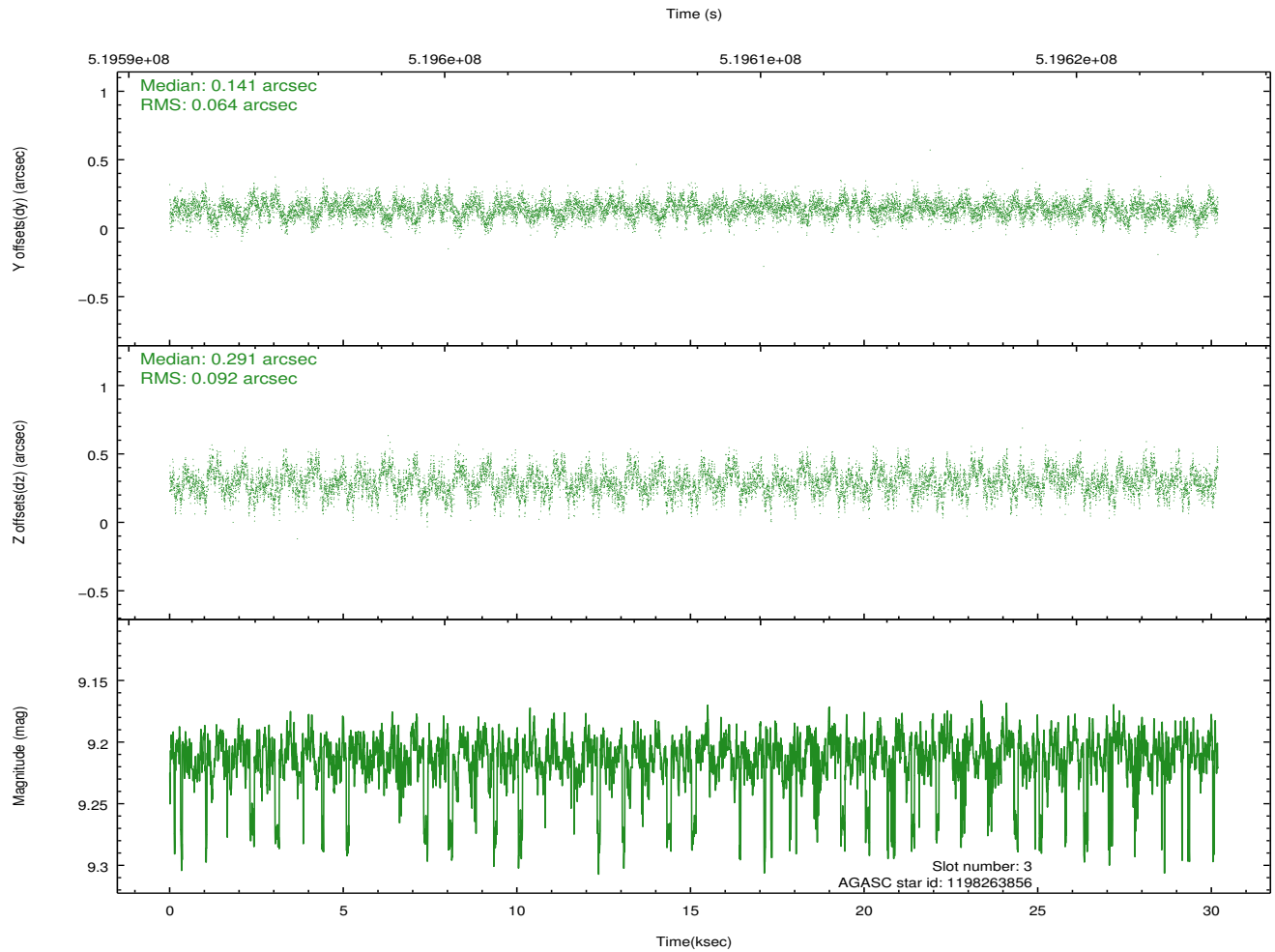
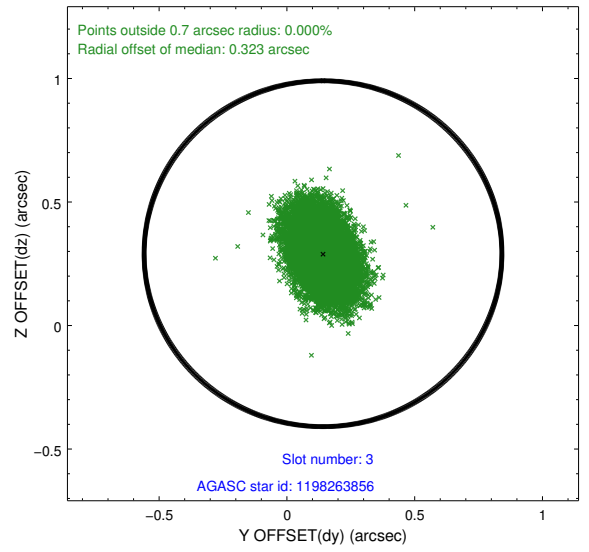
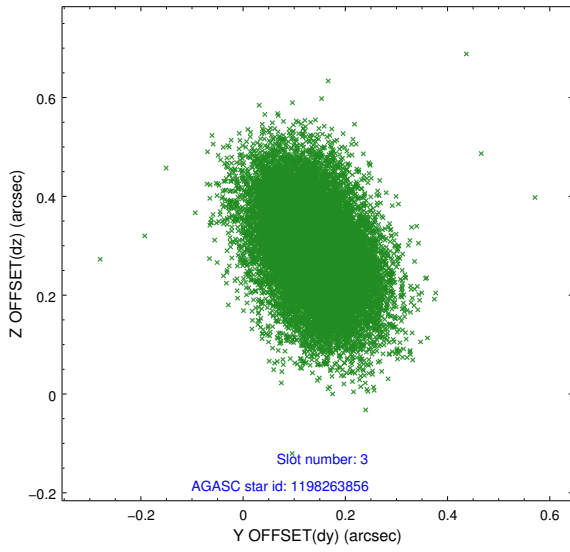
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.94	7363	-0.125	-0.021	0.010	0.021	0.000000	0.000000	-776.17	-1740.80
1	FID		ACIS-S-4	7.03	7364	0.286	0.066	0.023	0.043	0.000000	0.000000	2137.48	167.72
2	FID		ACIS-S-5	7.05	7364	-0.193	-0.037	0.017	0.025	0.000000	0.000000	-1829.00	161.34
3	GUIDE	used	1198263856	9.21	14719	0.141	0.291	0.118	0.197	23.344483	-73.858921	-1603.03	-635.57
4	GUIDE	used	1198263976	9.50	14589	0.159	-0.170	0.144	0.227	21.442533	-74.236104	-1854.37	1670.83
5	GUIDE	used	1198264032	7.99	14724	-0.028	0.110	0.081	0.134	22.563131	-73.173817	930.28	-1182.64
6	GUIDE	used	1198268712	8.51	14721	-0.043	0.147	0.080	0.128	21.961983	-73.269598	937.52	-470.58
7	GUIDE	used	1198272400	9.14	14713	-0.233	-0.372	0.140	0.217	20.411923	-73.620598	583.57	1529.29

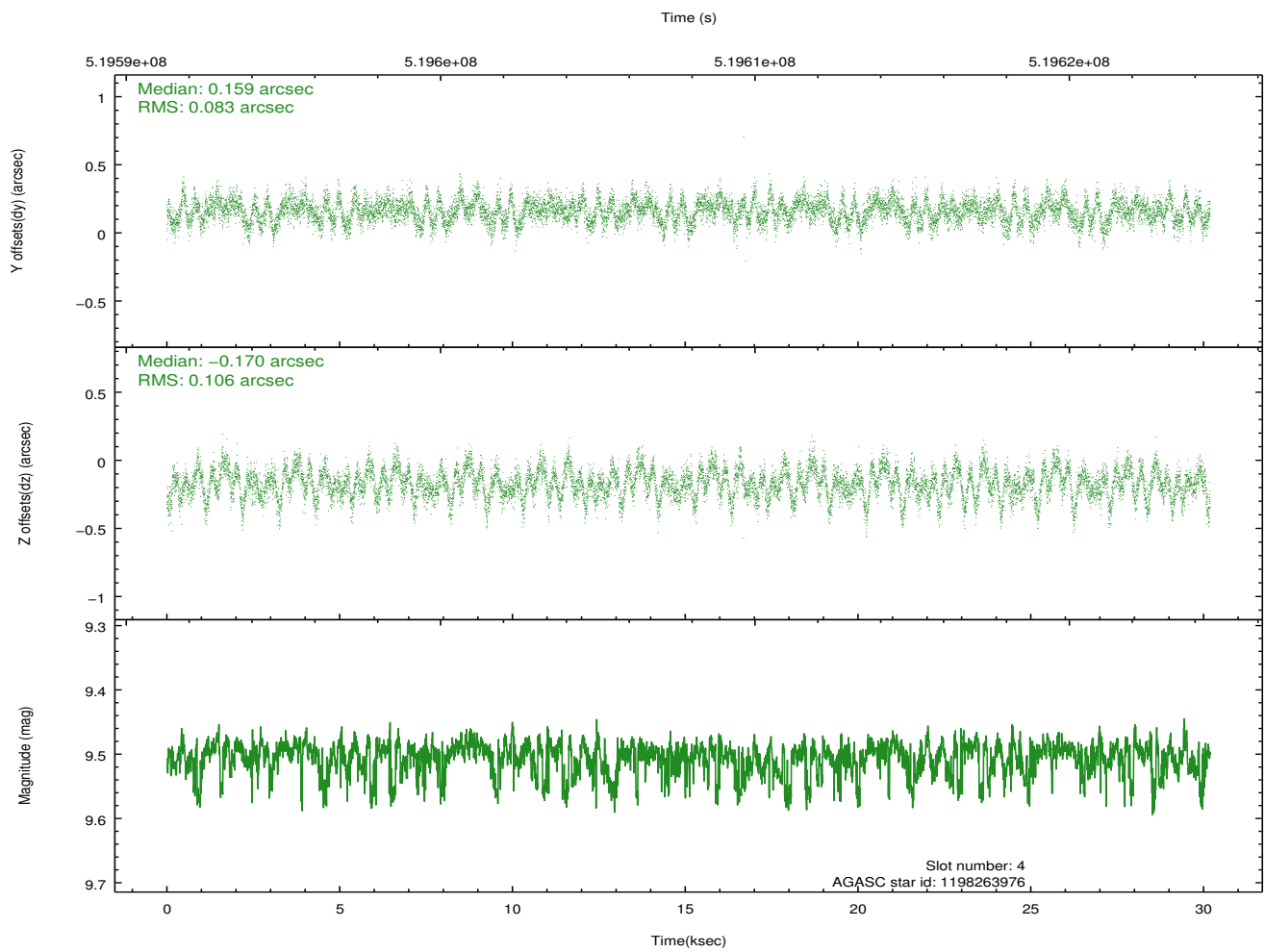
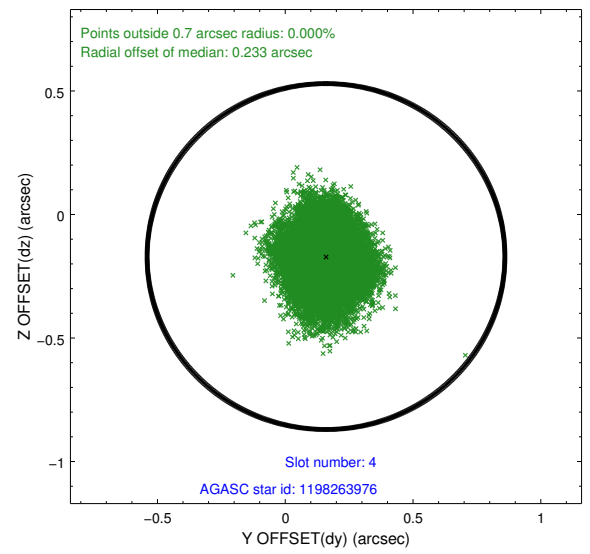
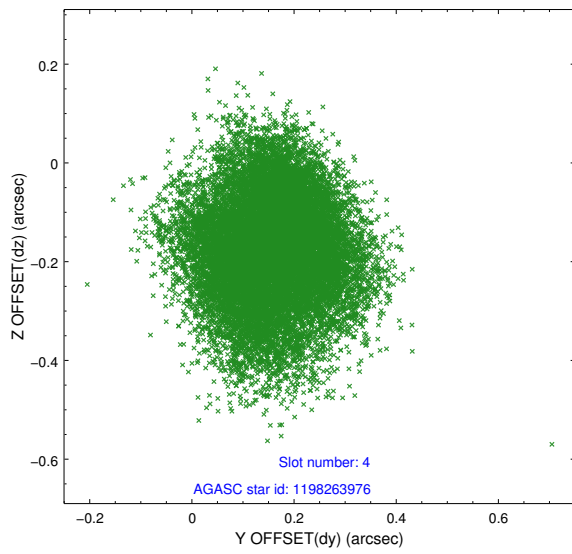
∞

2.4 Star Slots

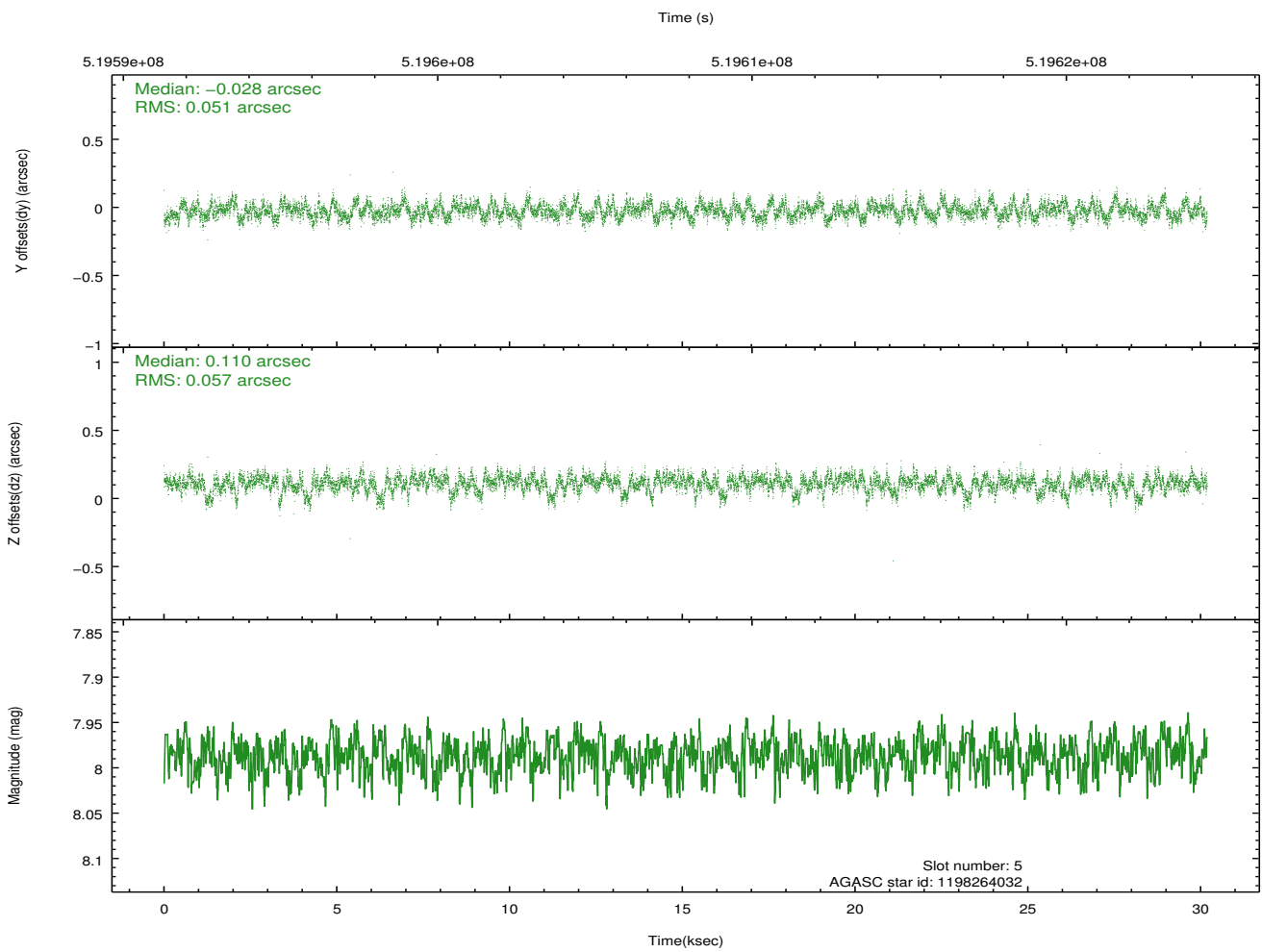
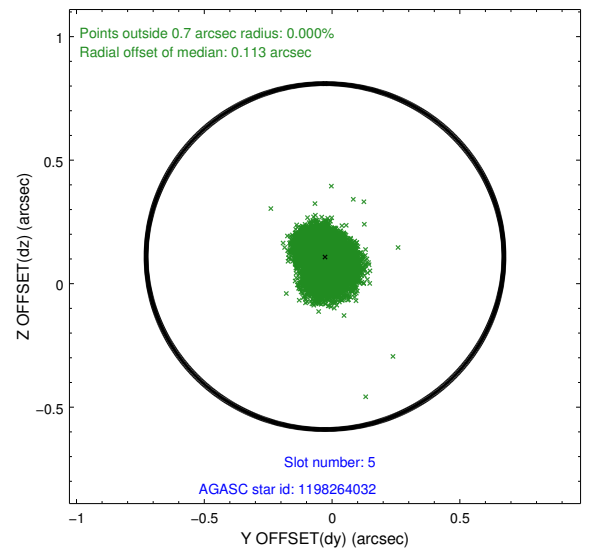
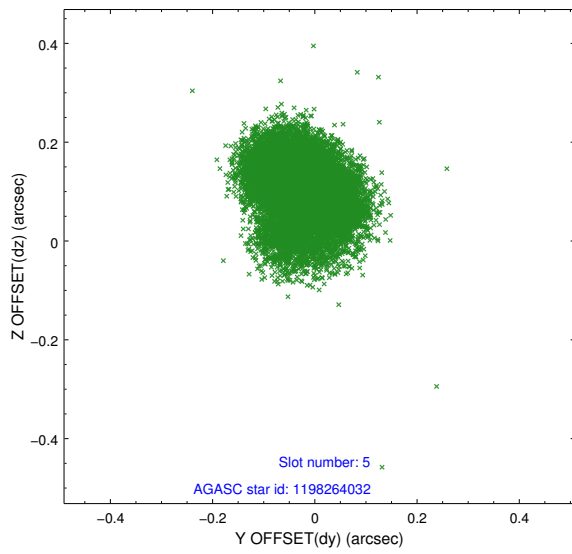
2.4.1 Slot 3



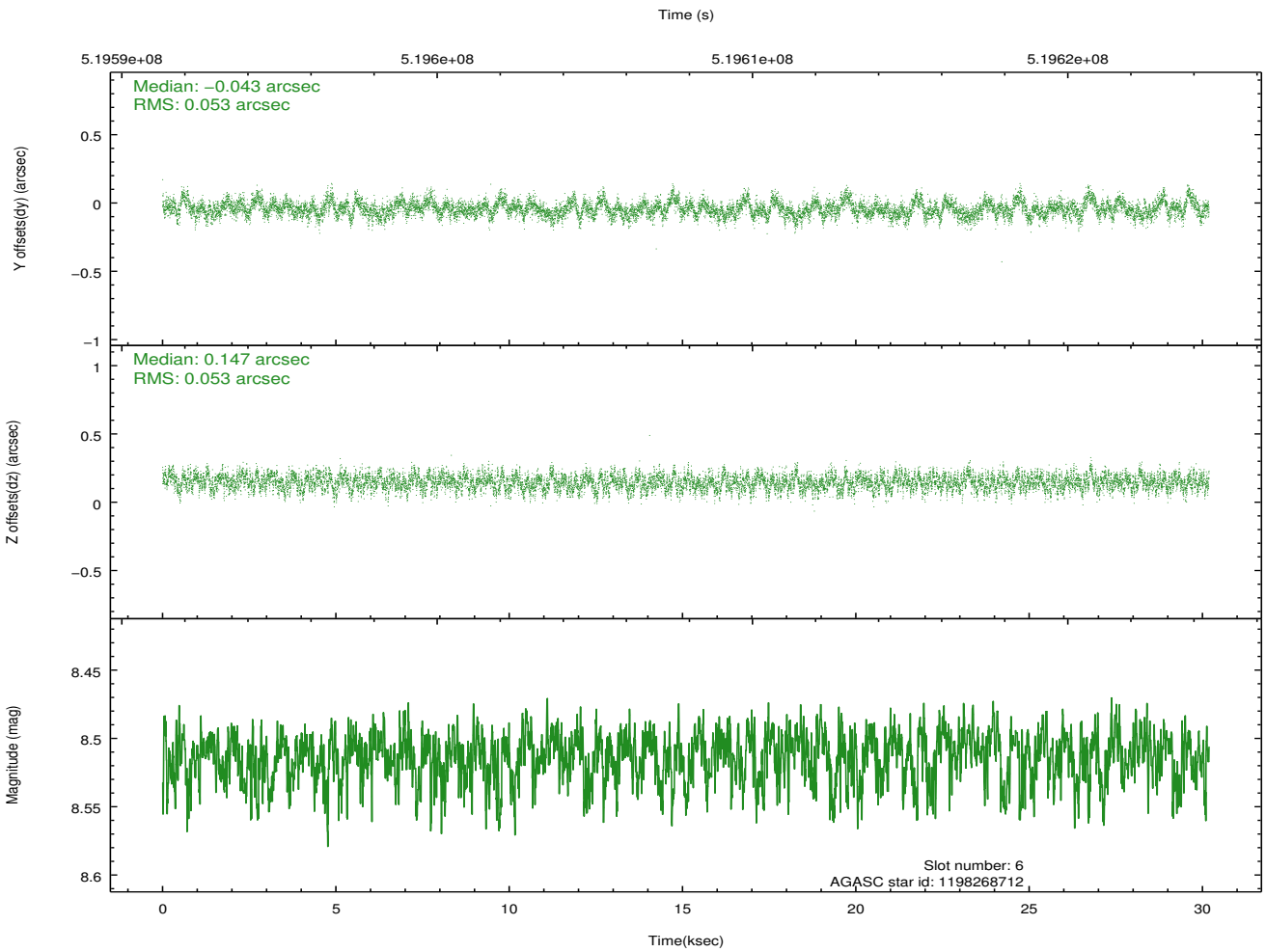
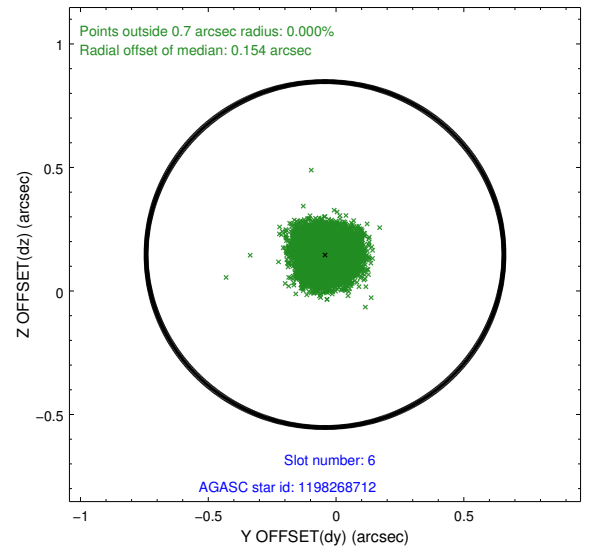
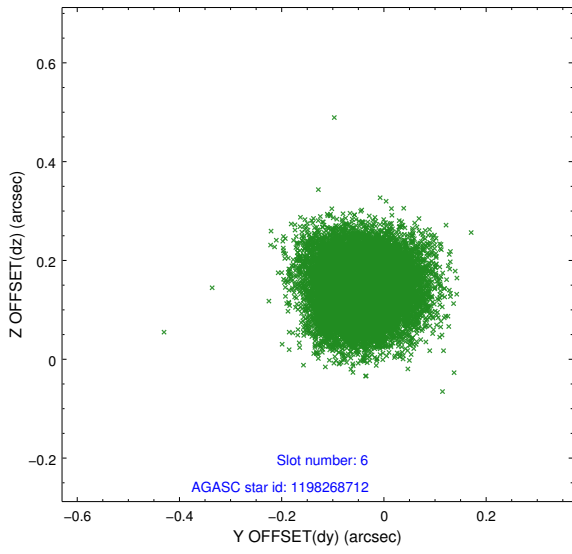
2.4.2 Slot 4



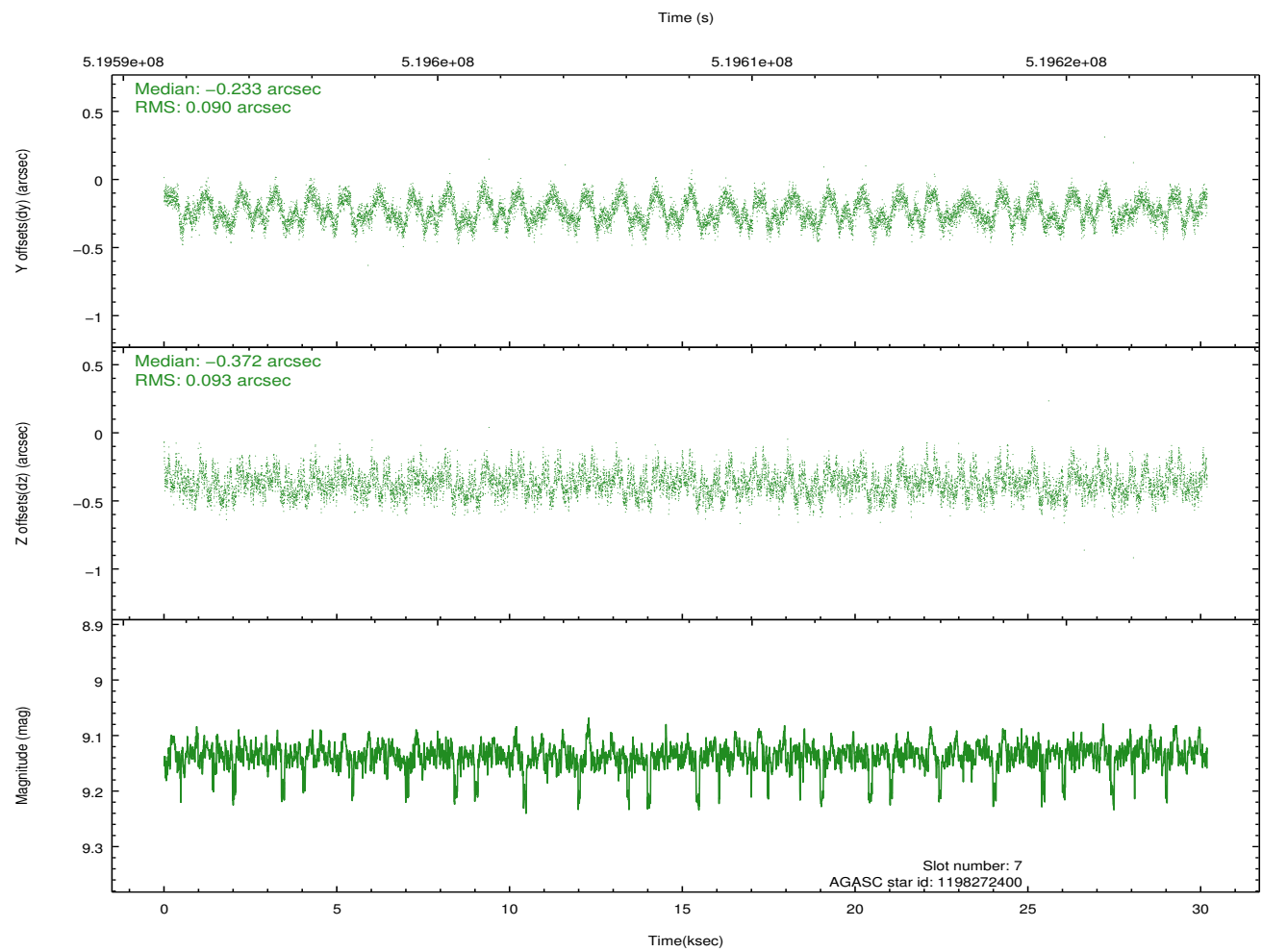
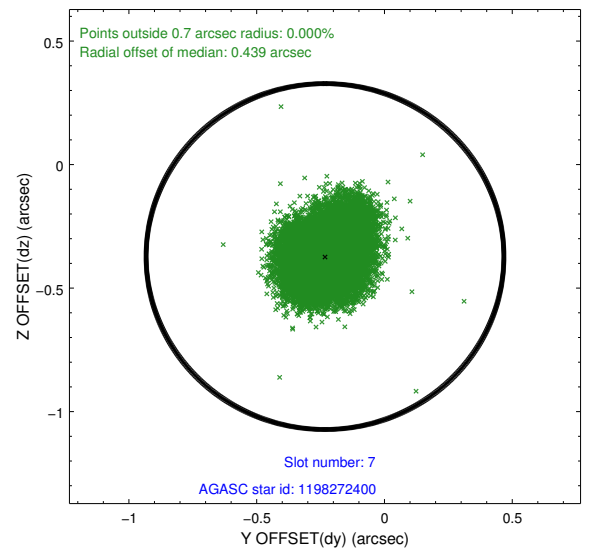
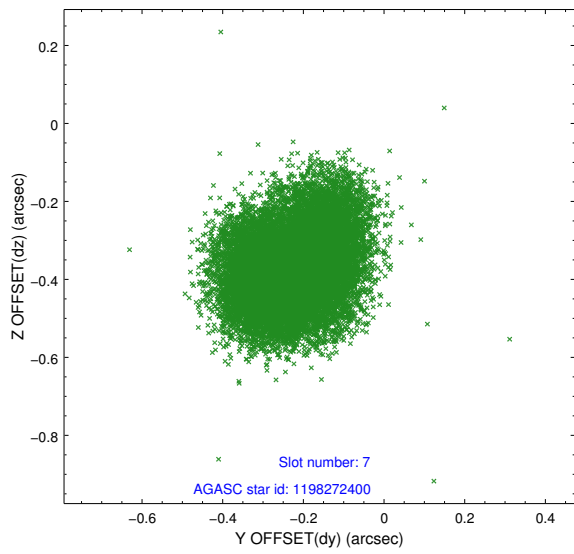
2.4.3 Slot 5



2.4.4 Slot 6

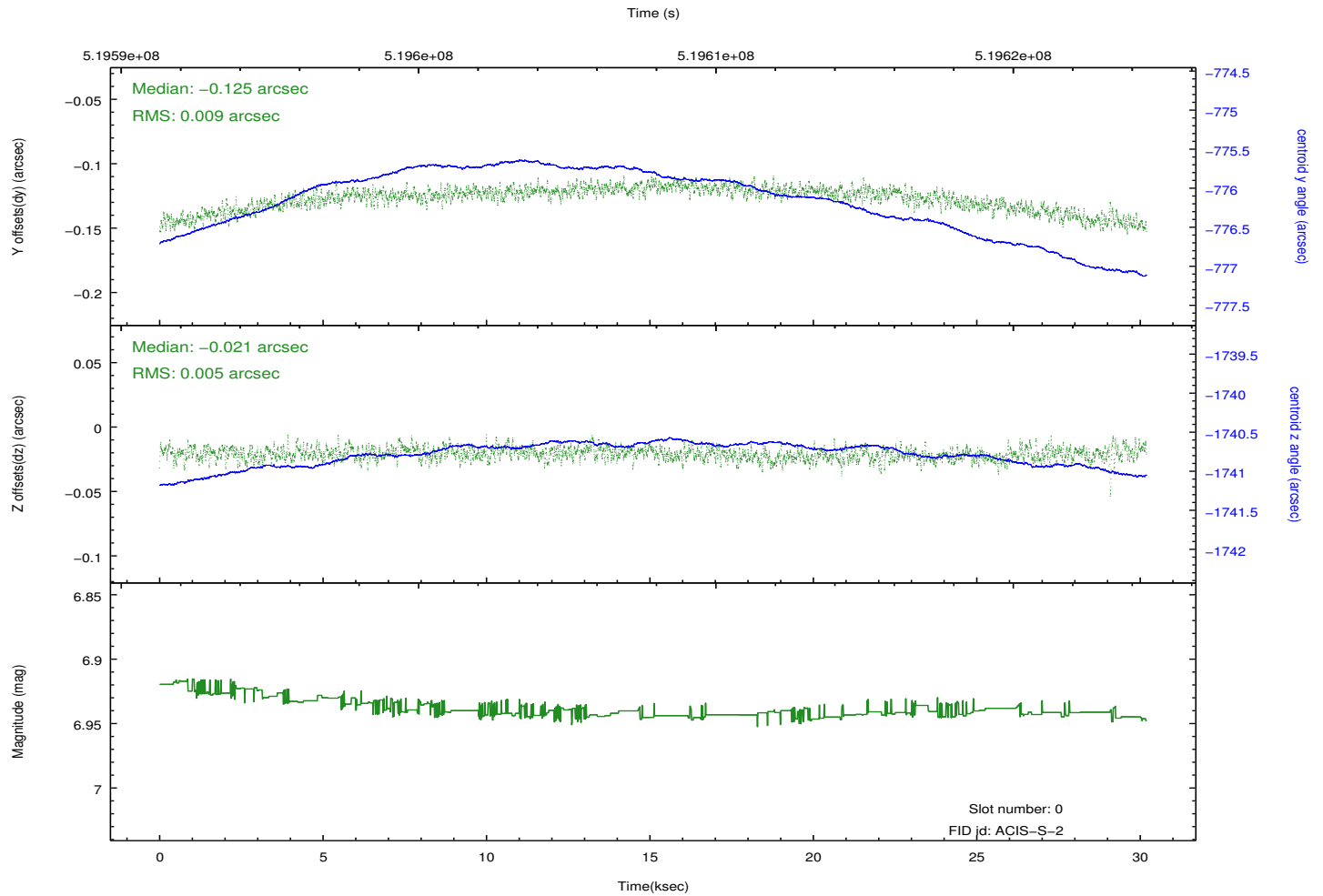
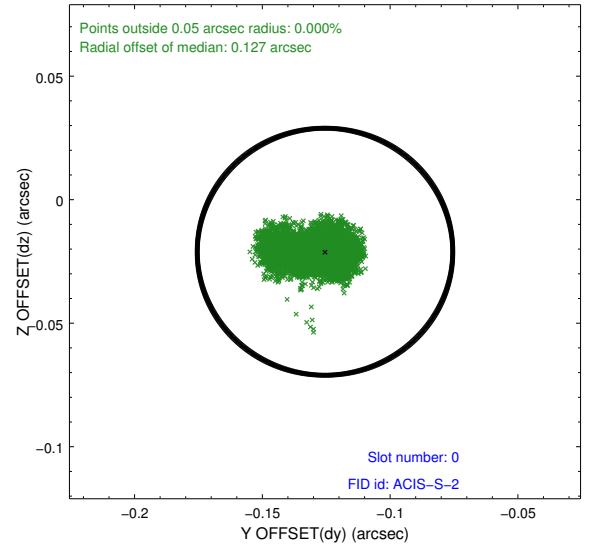
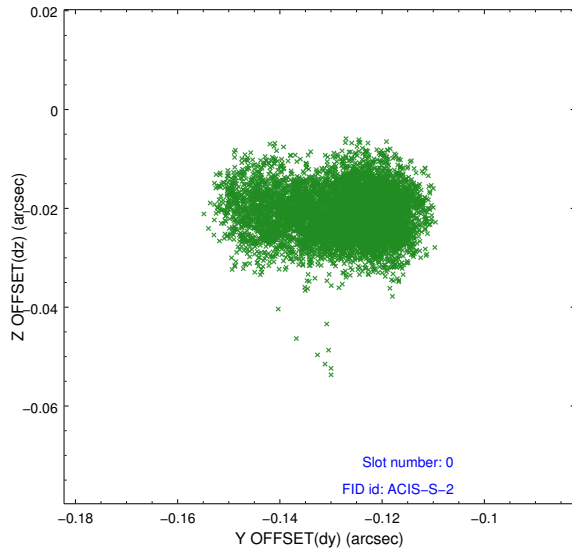


2.4.5 Slot 7

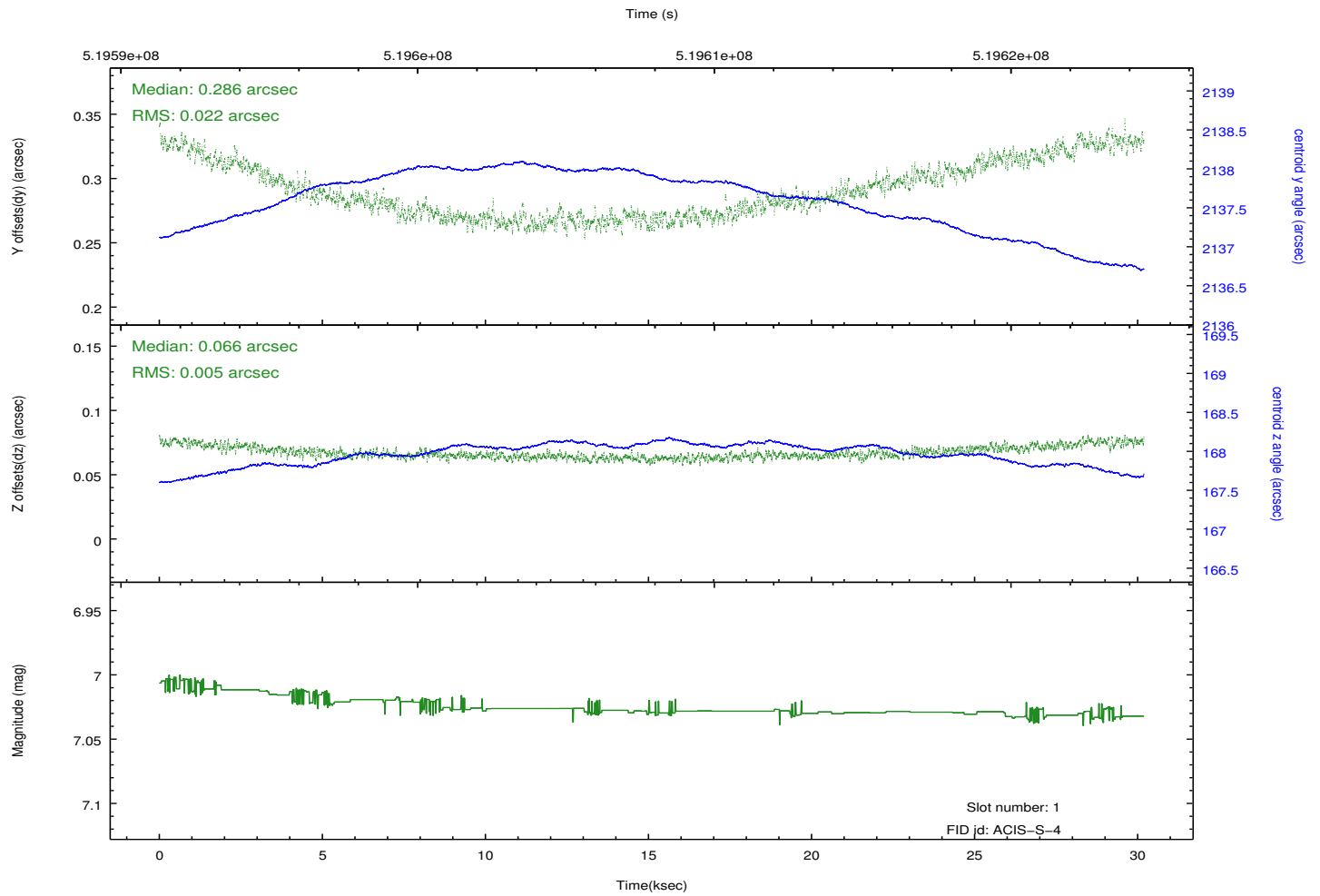
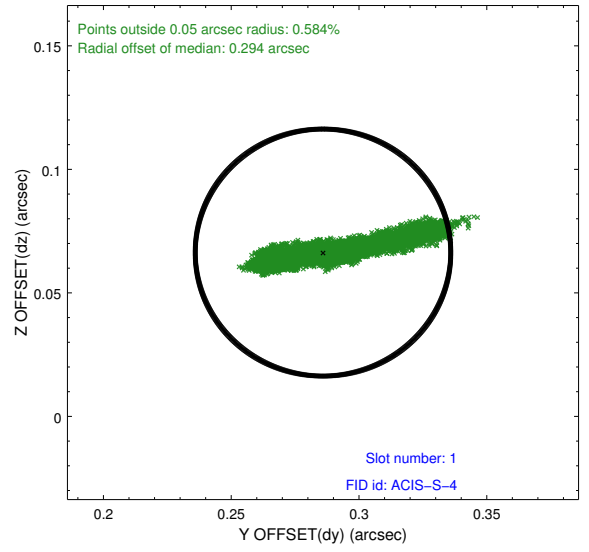
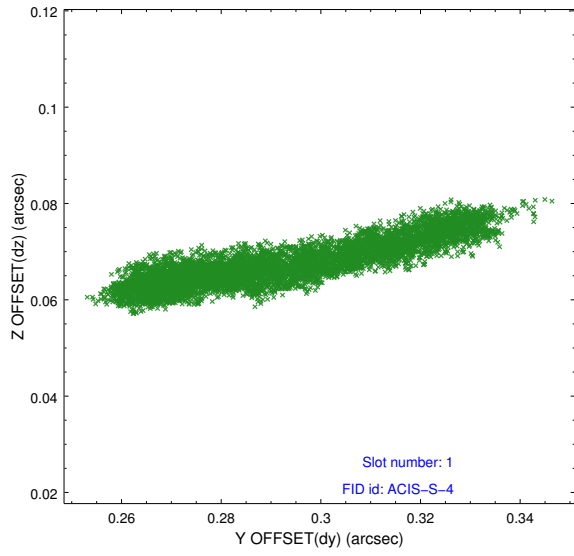


2.5 FID Slots

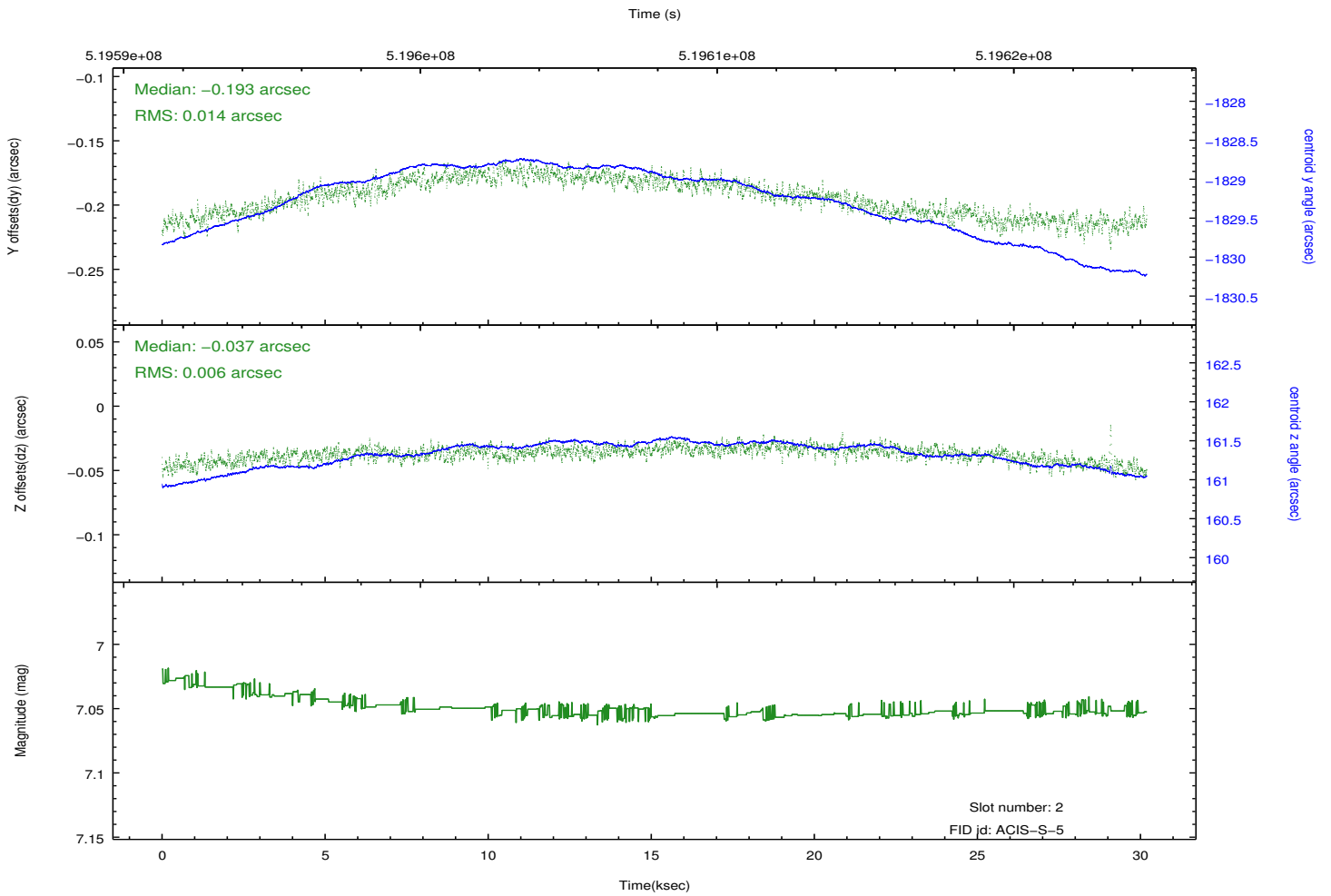
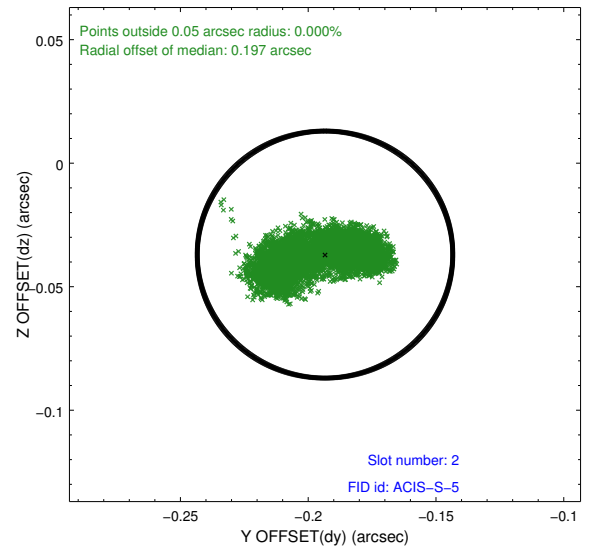
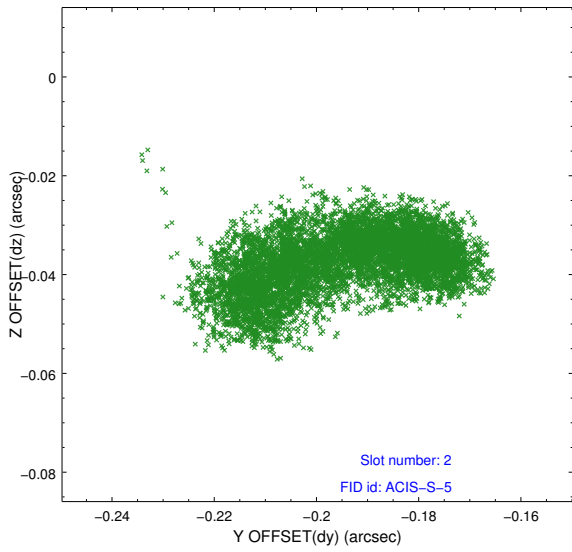
2.5.1 Slot 0



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	30.18325

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.