

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18335 - L2 Version 1
Chandra X-Ray Center

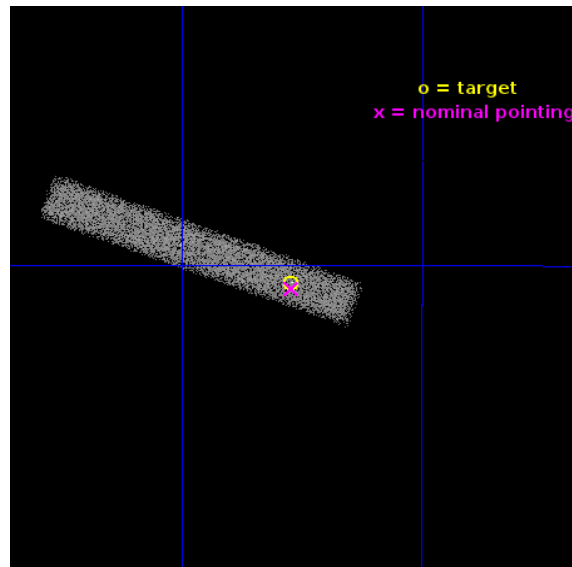
L2 Processing Date : May 28 2016

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

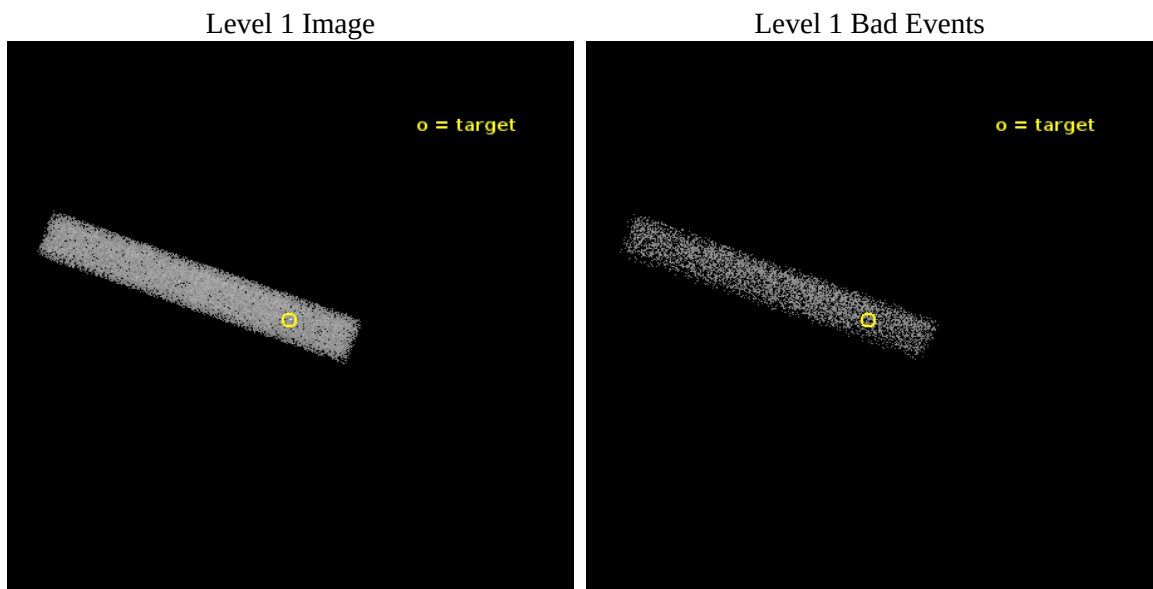
seq_num	401804	Sequence number
obs_id	18335	Observation id
title	Crust cooling of accretion-heated neutron stars	Proposal title
observer	Rudy Wijnands	Principal investigator
object	MAXI J0556-332	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	89.193	Observer's specified target RA [deg]
dec_targ	-33.1745	Observer's specified target Dec [deg]
ra_nom	89.192919187149	Nominal RA [deg]
dec_nom	-33.177186947711	Nominal Dec [deg]
roll_nom	200.15658759738	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30068.651372313	Sum of GTIs [s]
livetime	27270.679641133	Livetime [s]
ontime7	30068.651372313	Sum of GTIs [s]
l2events	16121	Number of level 2 events



2 OBI

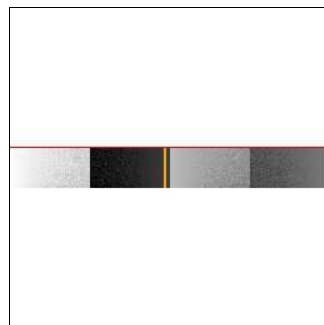
2.1 OBI

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	10.4.3.1	Processing system revision	ontime	30068.651372313	Sum of GTIs [s]
caldsver	4.7.1	 	ontime7	30068.651372313	Sum of GTIs [s]
date	2016-05-28T06:06:17	Date and time of file creation	l1events	33722	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

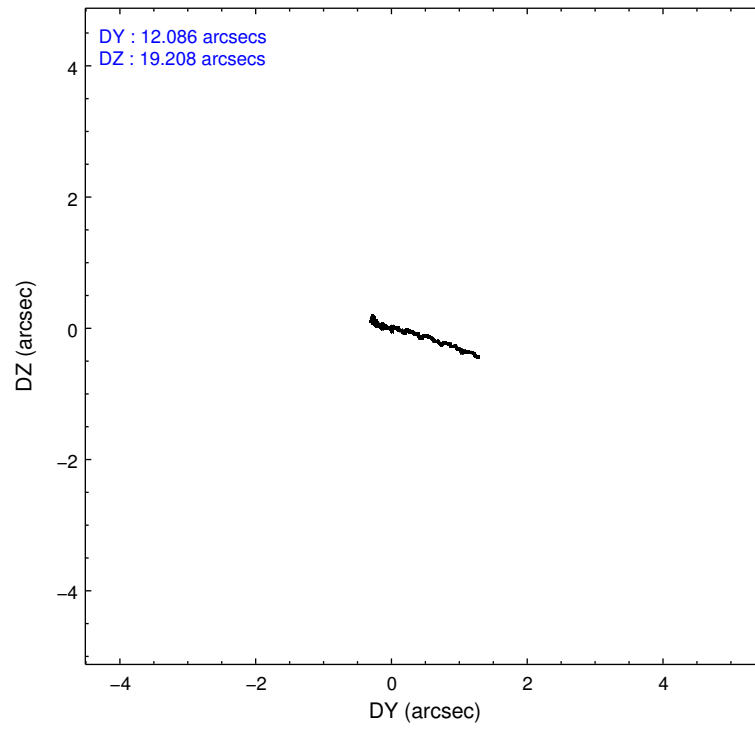
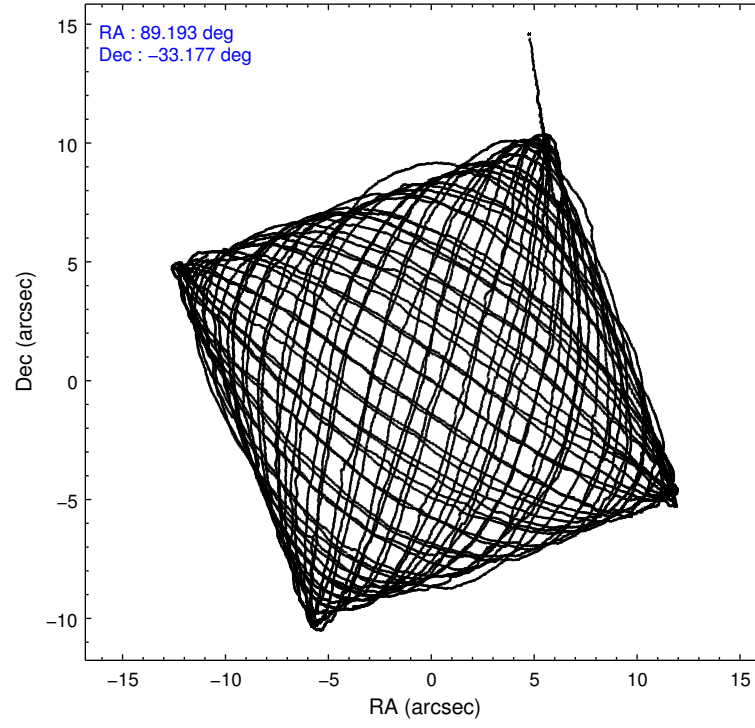
	ccd 7
level 1 events	33722
rejected events	16852
rejected %	49%

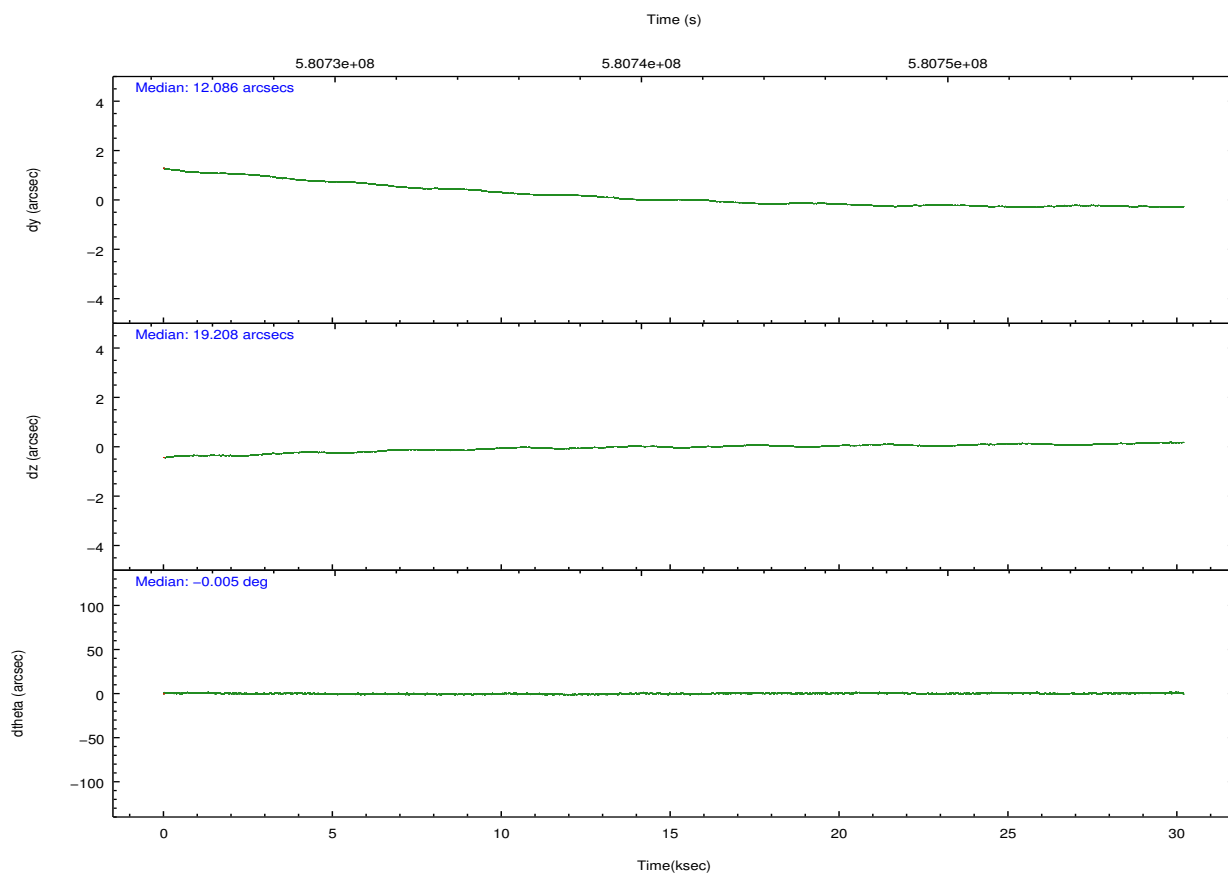
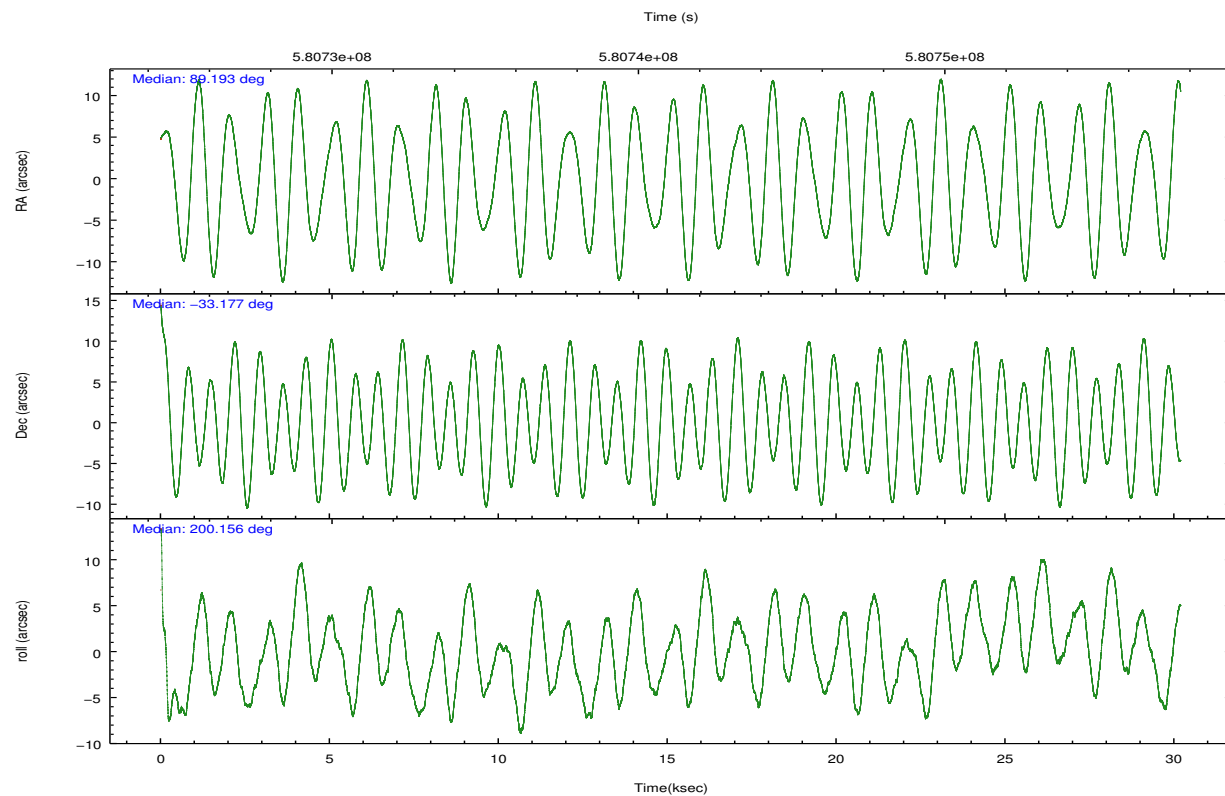
	ccd 7
grade 0 events	1752
	5%
grade 1 events	51
	0%
grade 2 events	3419
	10%
grade 3 events	2199
	6%
grade 4 events	2021
	5%
grade 5 events	3533
	10%
grade 6 events	7479
	22%
grade 7 events	13268
	39%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	89.213570	89.19291918714931	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-33.155890	-33.17718694771145	Subarray start row	449	449
[deg] Pointing Roll	200.011259	200.1565875973829	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	580726156.184000	580725407.07629			
Observation start date	2016-05-27T08:48:08	2016-05-27T08:36:47			
[s] Observation end time (MET)	580756156.184000	580757249.21561			
Observation end date	2016-05-27T17:08:08	2016-05-27T17:27:29			
Read mode	TIMED	TIMED			

2.3 Aspect



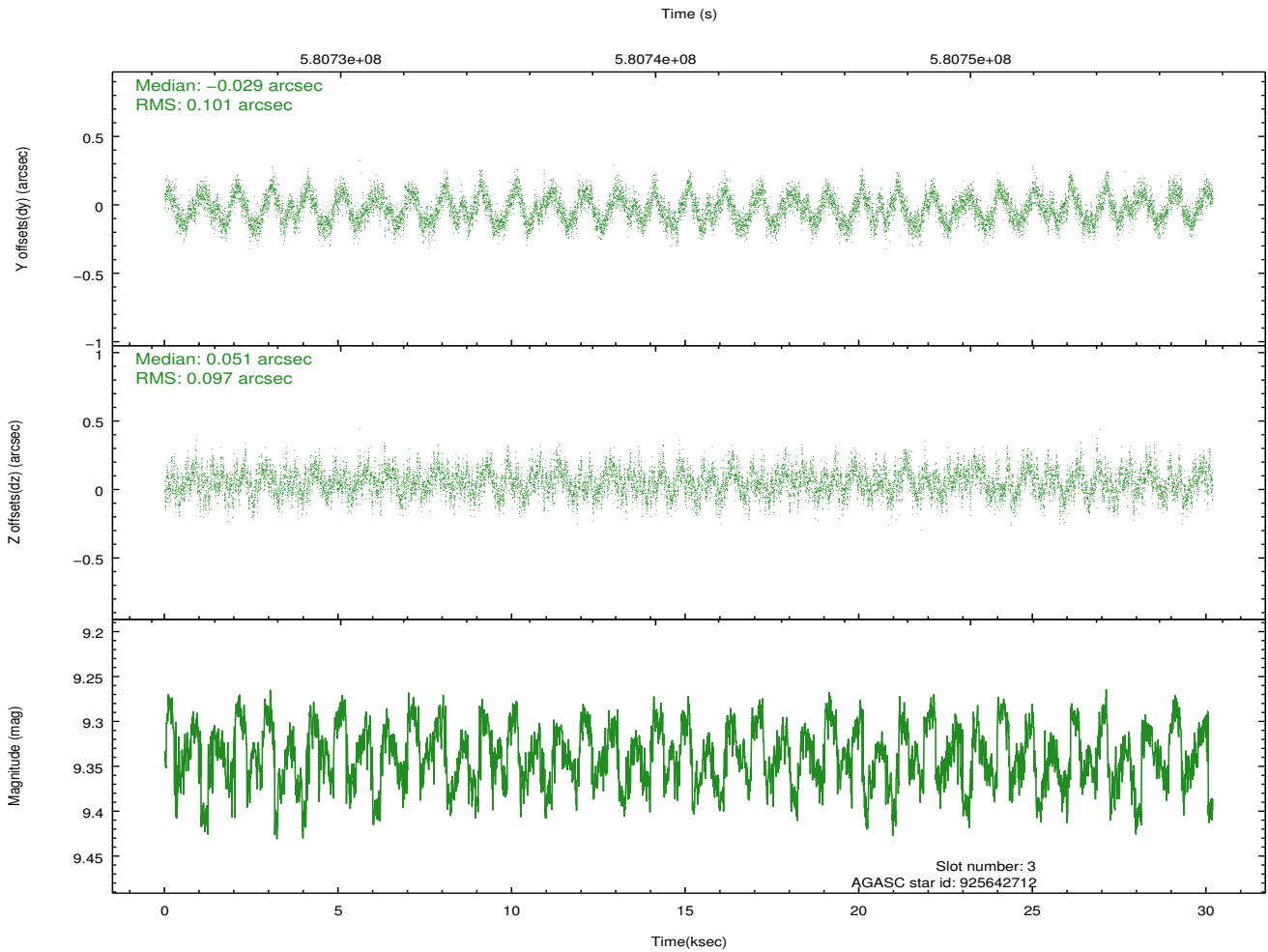
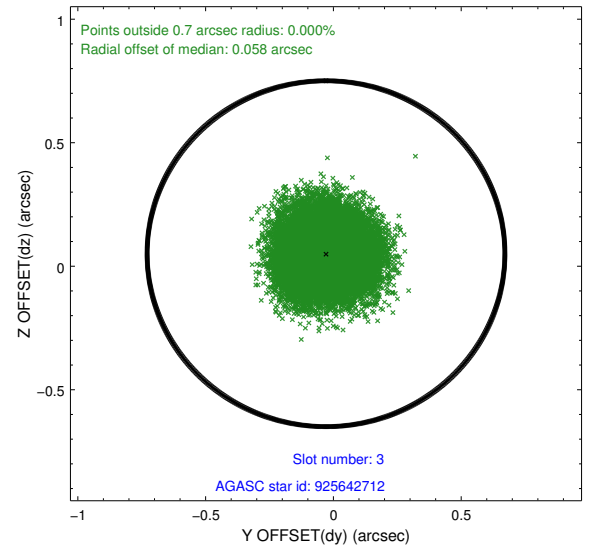
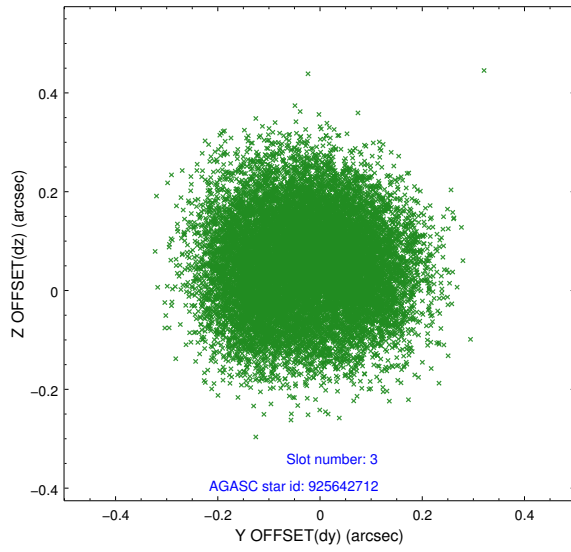


Slot Statistics

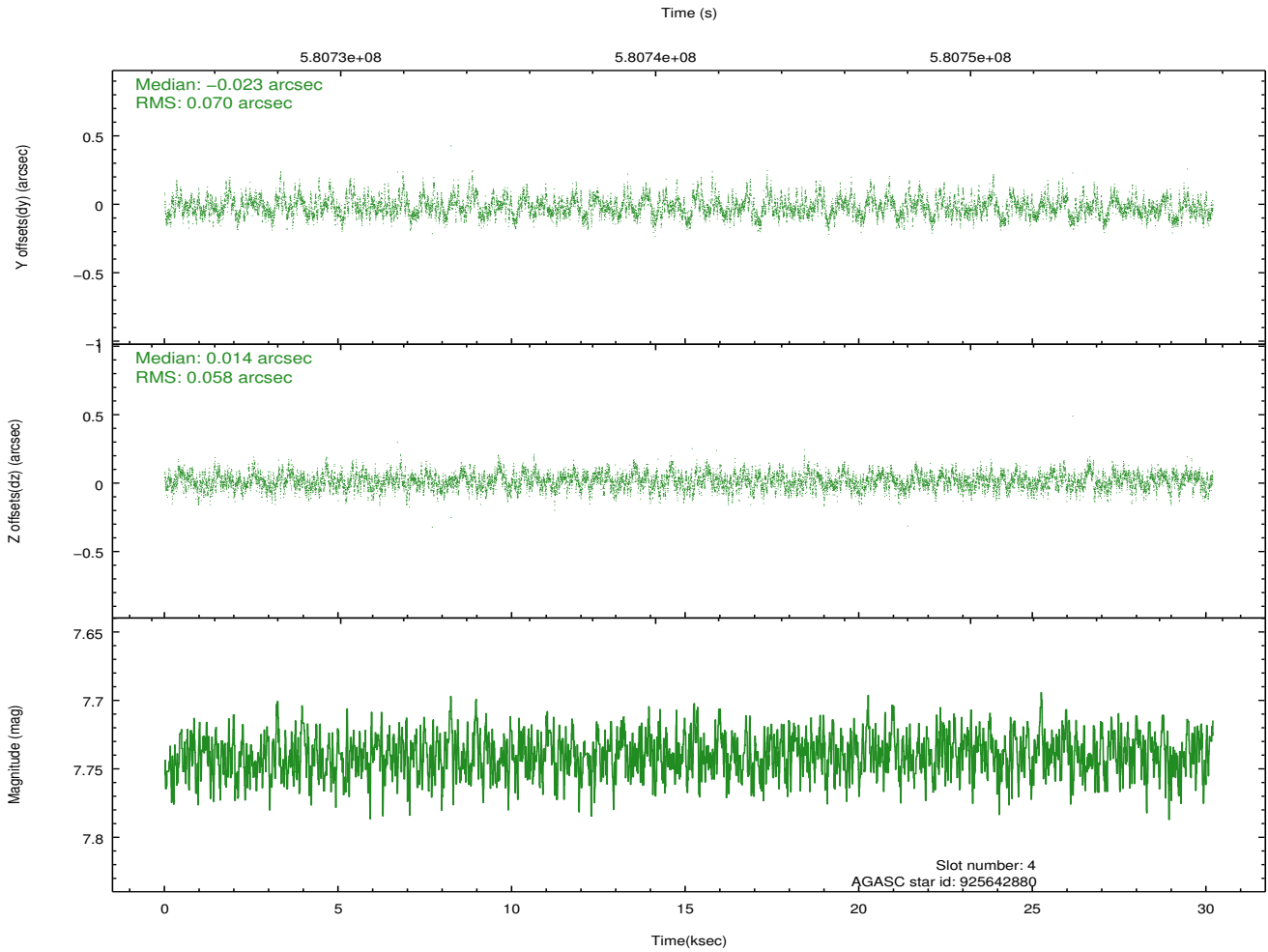
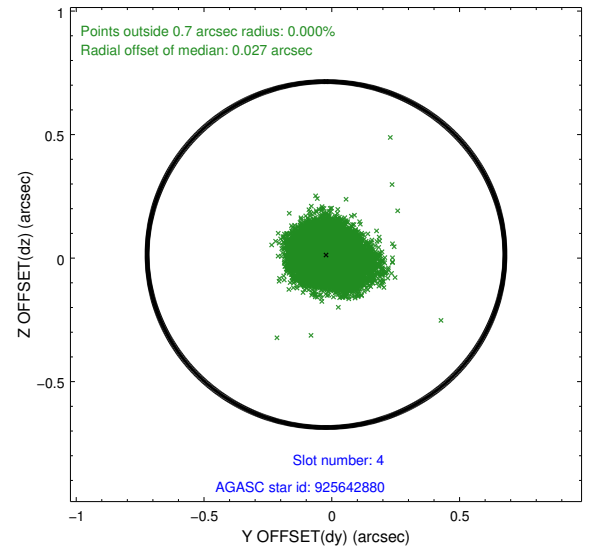
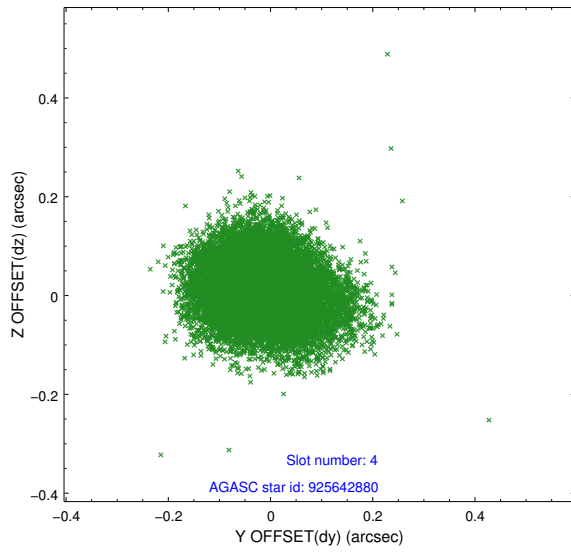
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.09	7364	-0.139	-0.081	0.012	0.034	0.000000	0.000000	-765.27	-1740.75
1	FID		ACIS-S-4	7.21	7362	0.367	0.089	0.015	0.050	0.000000	0.000000	2148.46	167.87
2	FID		ACIS-S-5	7.23	7363	-0.259	0.001	0.019	0.051	0.000000	0.000000	-1818.17	161.49
3	GUIDE	used	925642712	9.34	14715	-0.029	0.051	0.153	0.228	89.246145	-33.485552	314.53	1148.93
4	GUIDE	used	925642880	7.74	14718	-0.023	0.014	0.096	0.155	89.133148	-33.434507	570.18	859.81
5	GUIDE	used	925645016	9.08	14717	0.065	-0.087	0.111	0.183	89.945223	-33.615732	-1492.07	2313.28
6	GUIDE	used	925645552	7.58	14722	-0.154	-0.011	0.070	0.117	88.738097	-33.665766	1967.68	1240.49
7	GUIDE	used	926158304	8.62	14722	0.135	0.037	0.101	0.167	88.773773	-33.925420	2183.18	2155.98

2.4 Star Slots

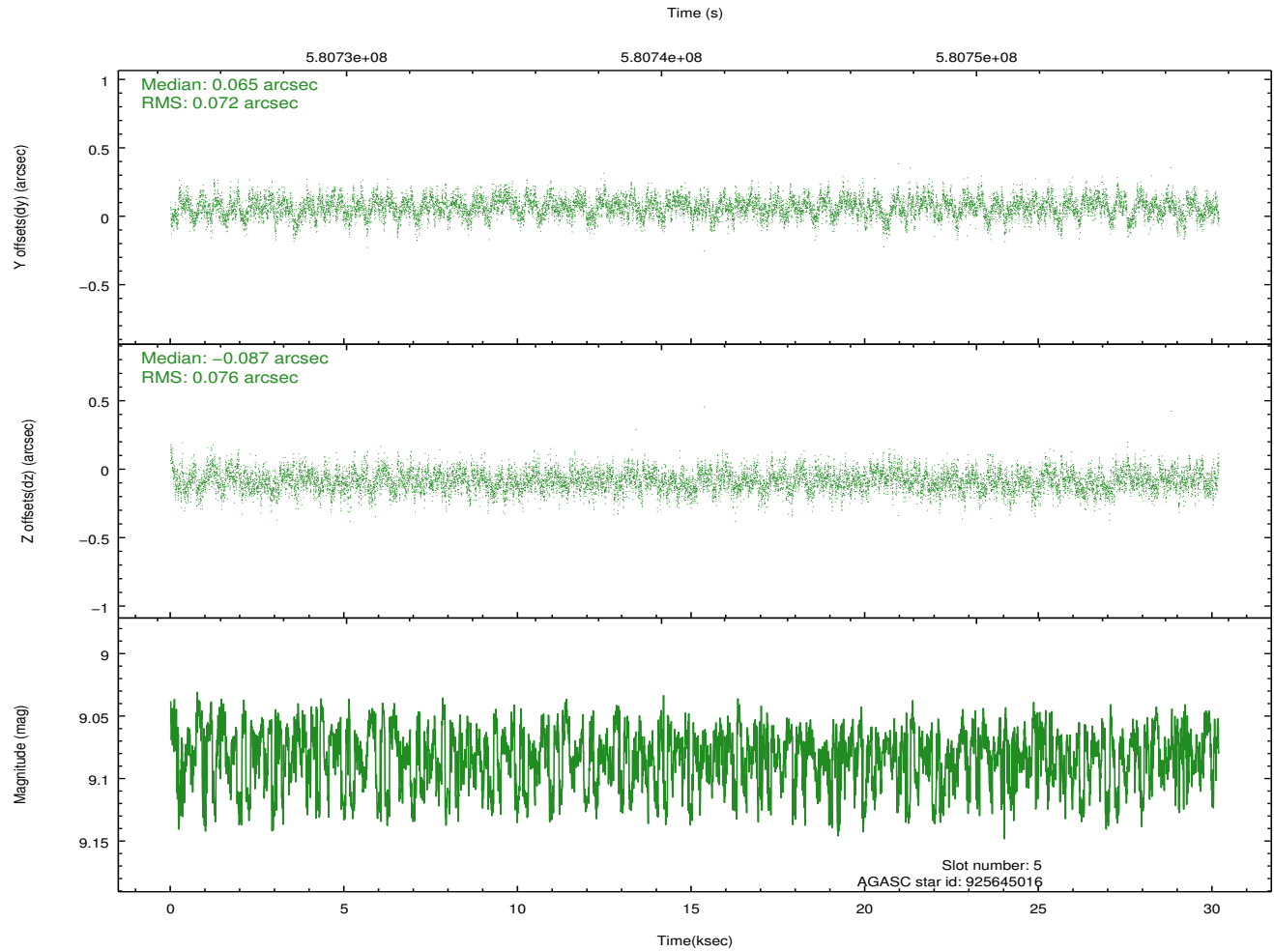
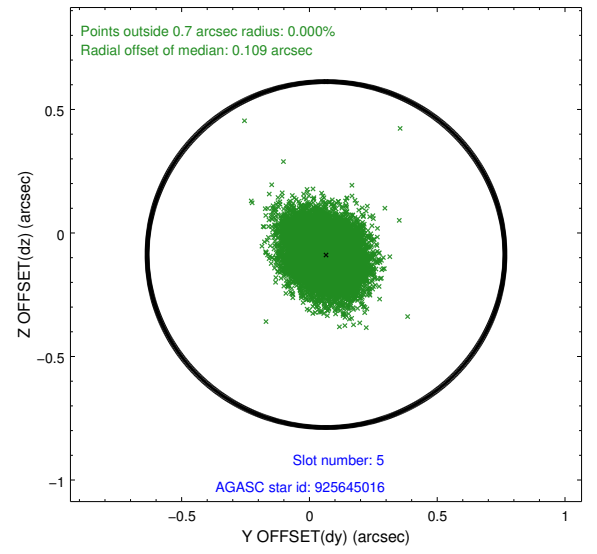
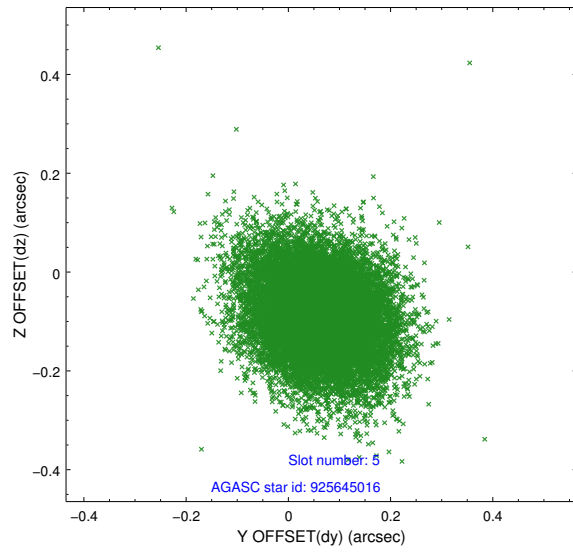
2.4.1 Slot 3



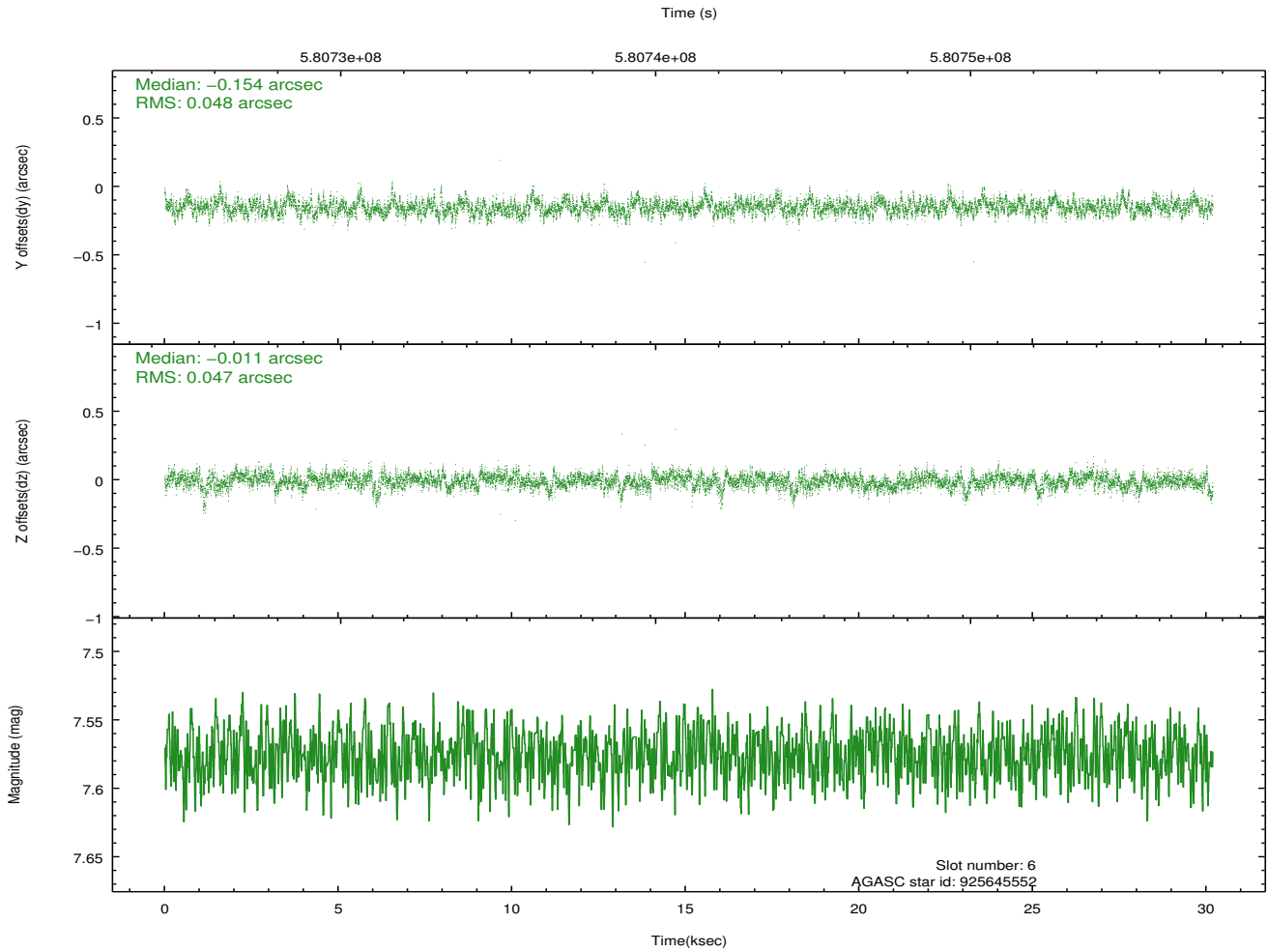
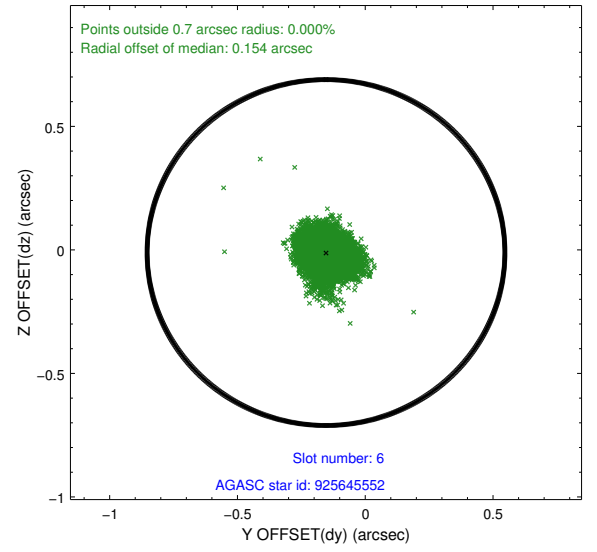
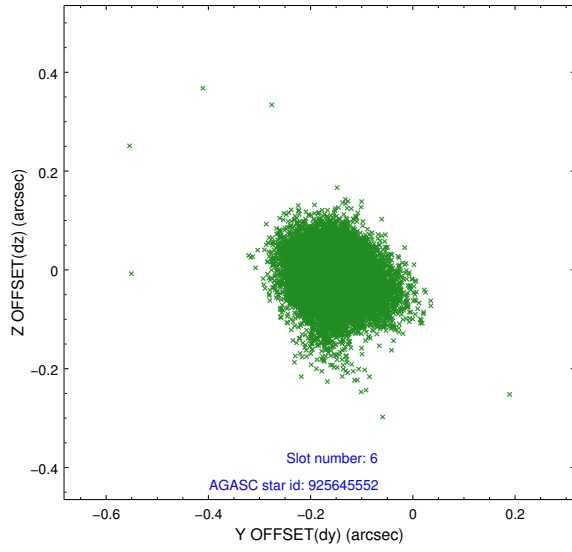
2.4.2 Slot 4



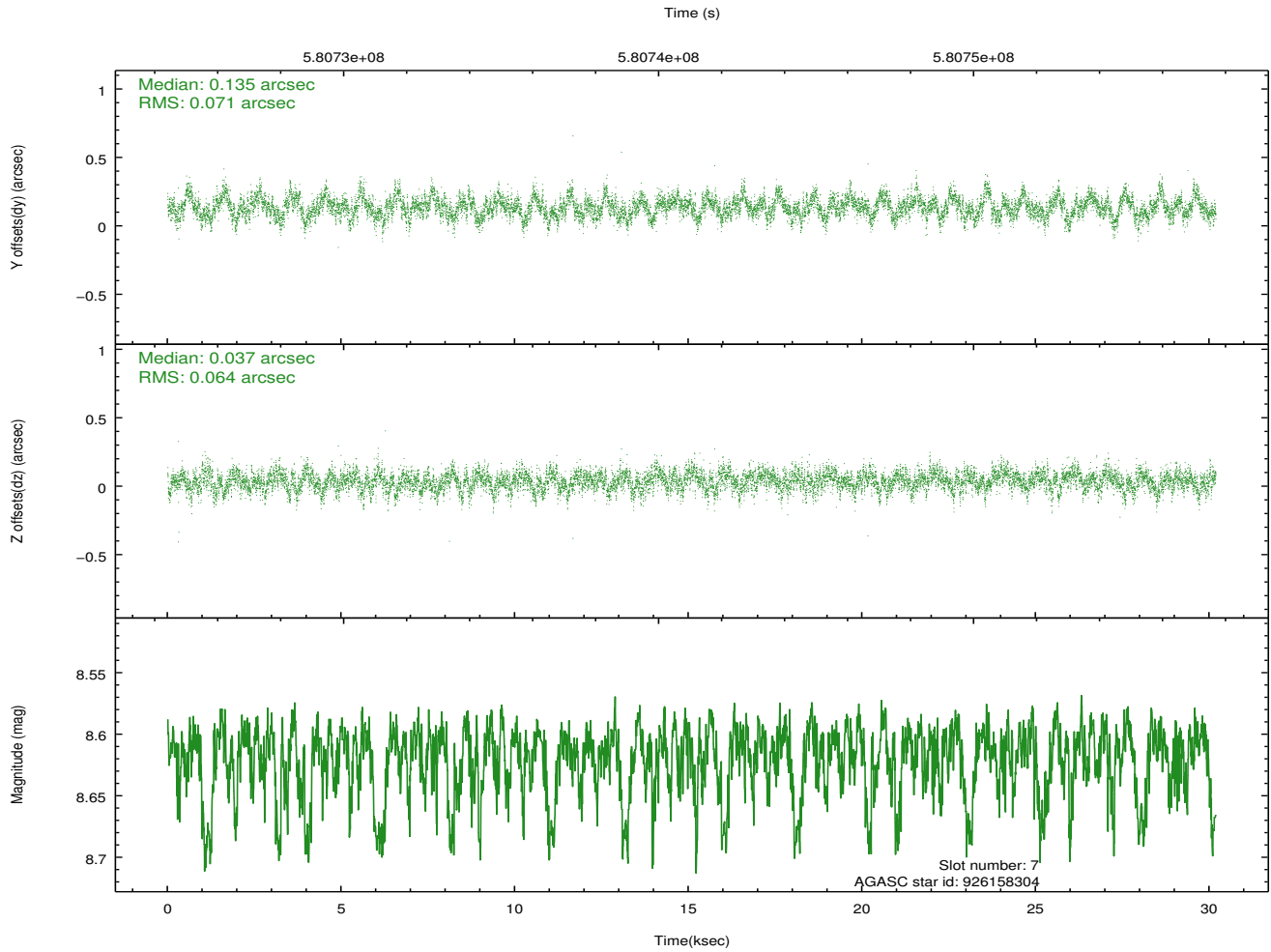
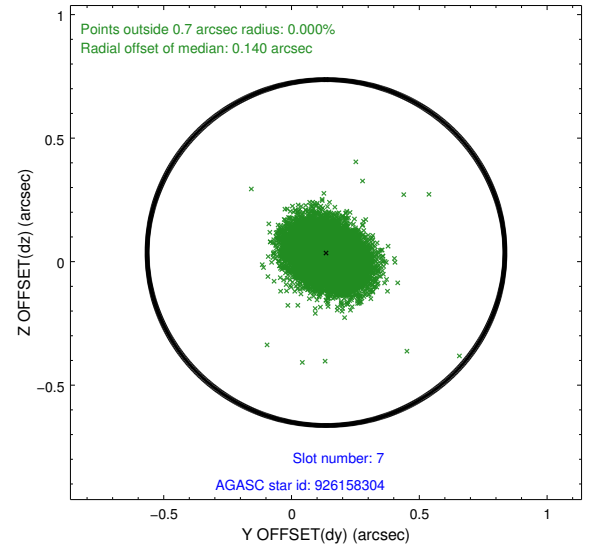
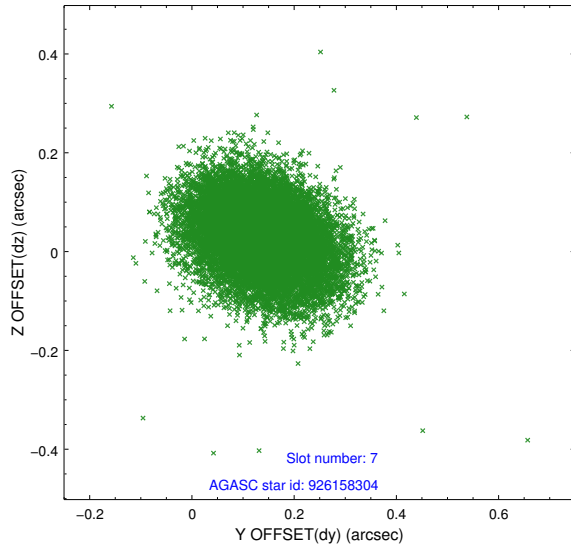
2.4.3 Slot 5



2.4.4 Slot 6

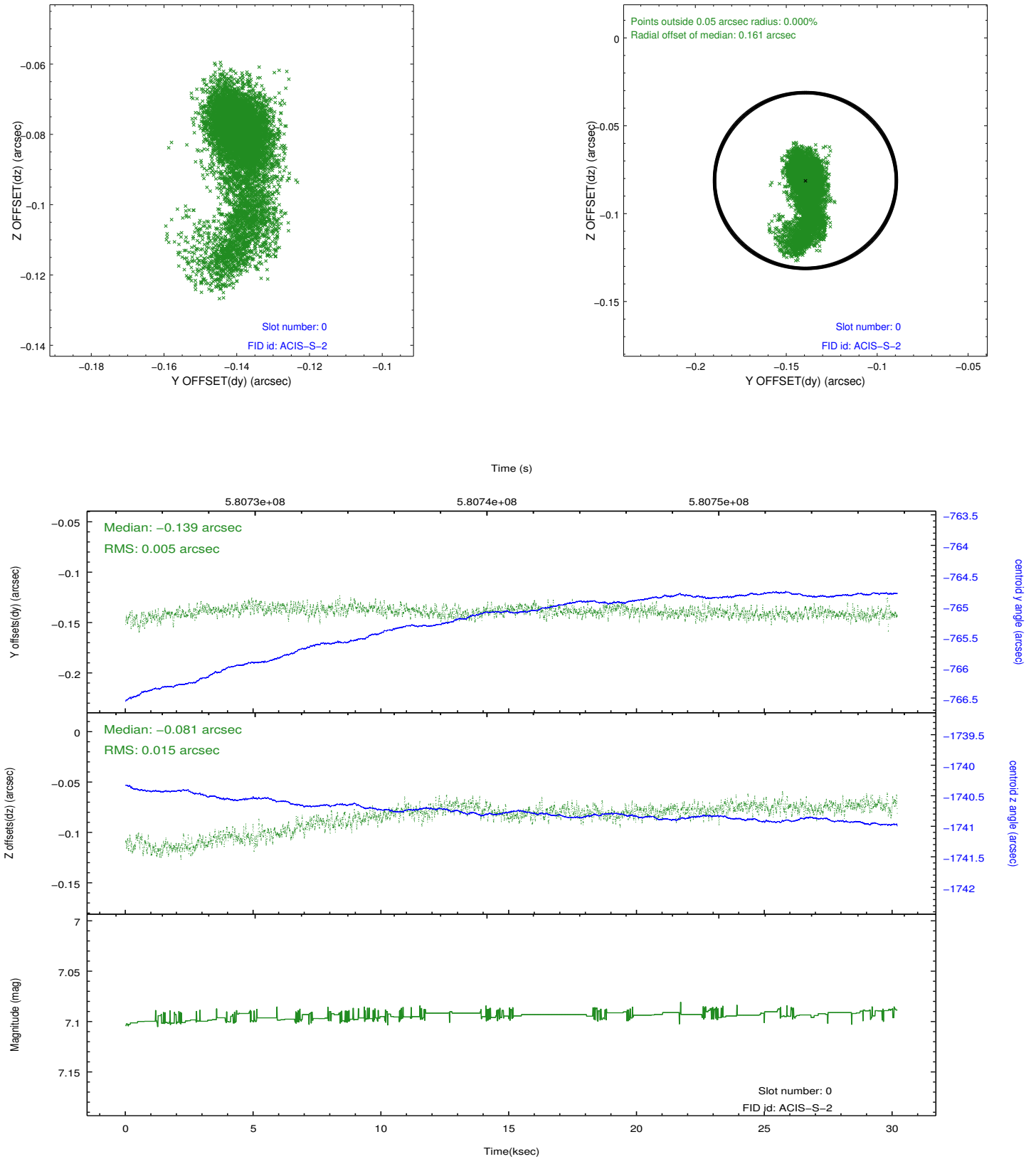


2.4.5 Slot 7

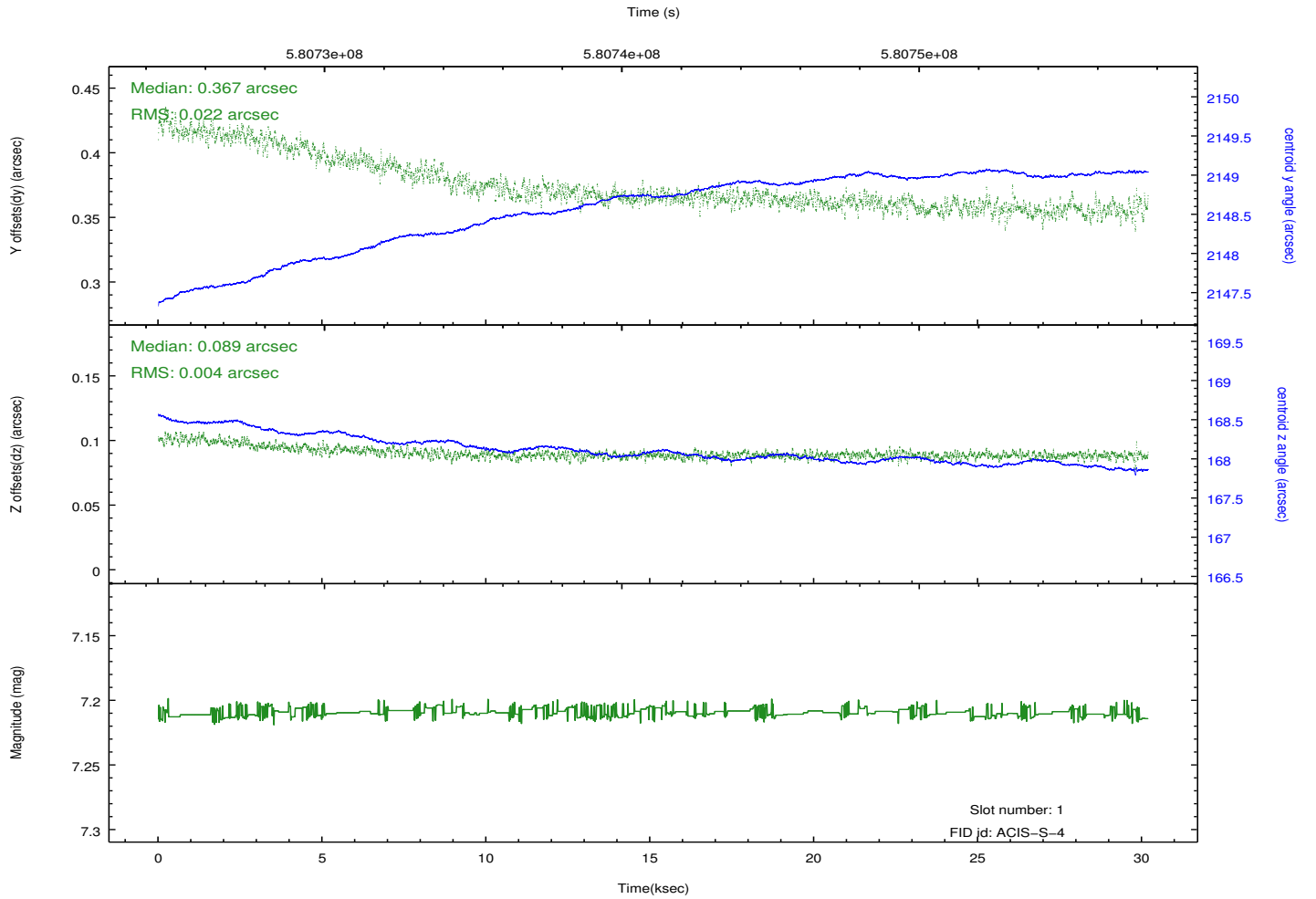
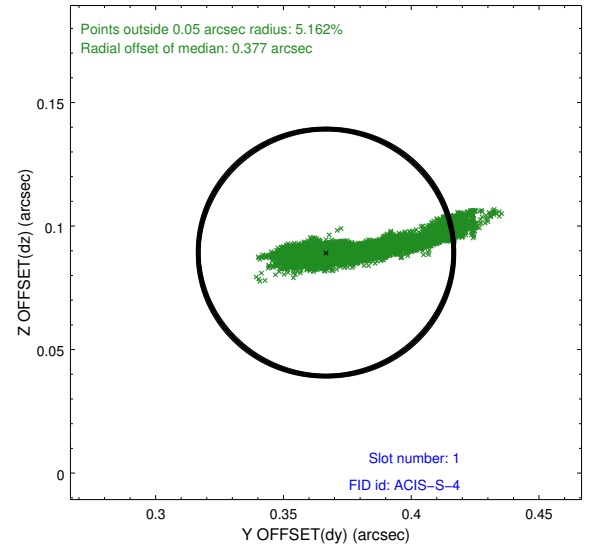
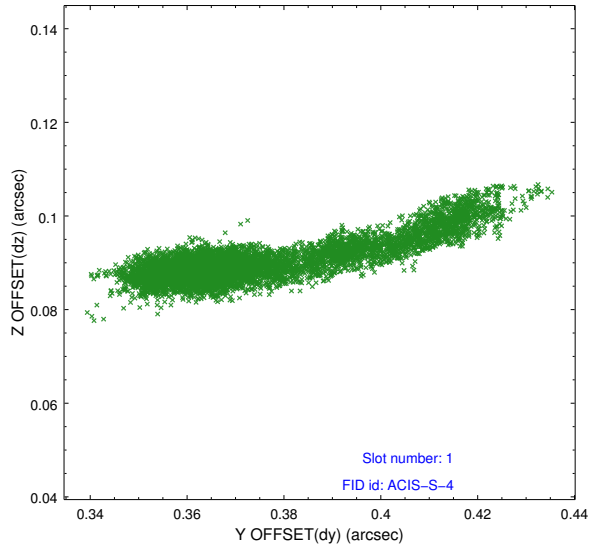


2.5 FID Slots

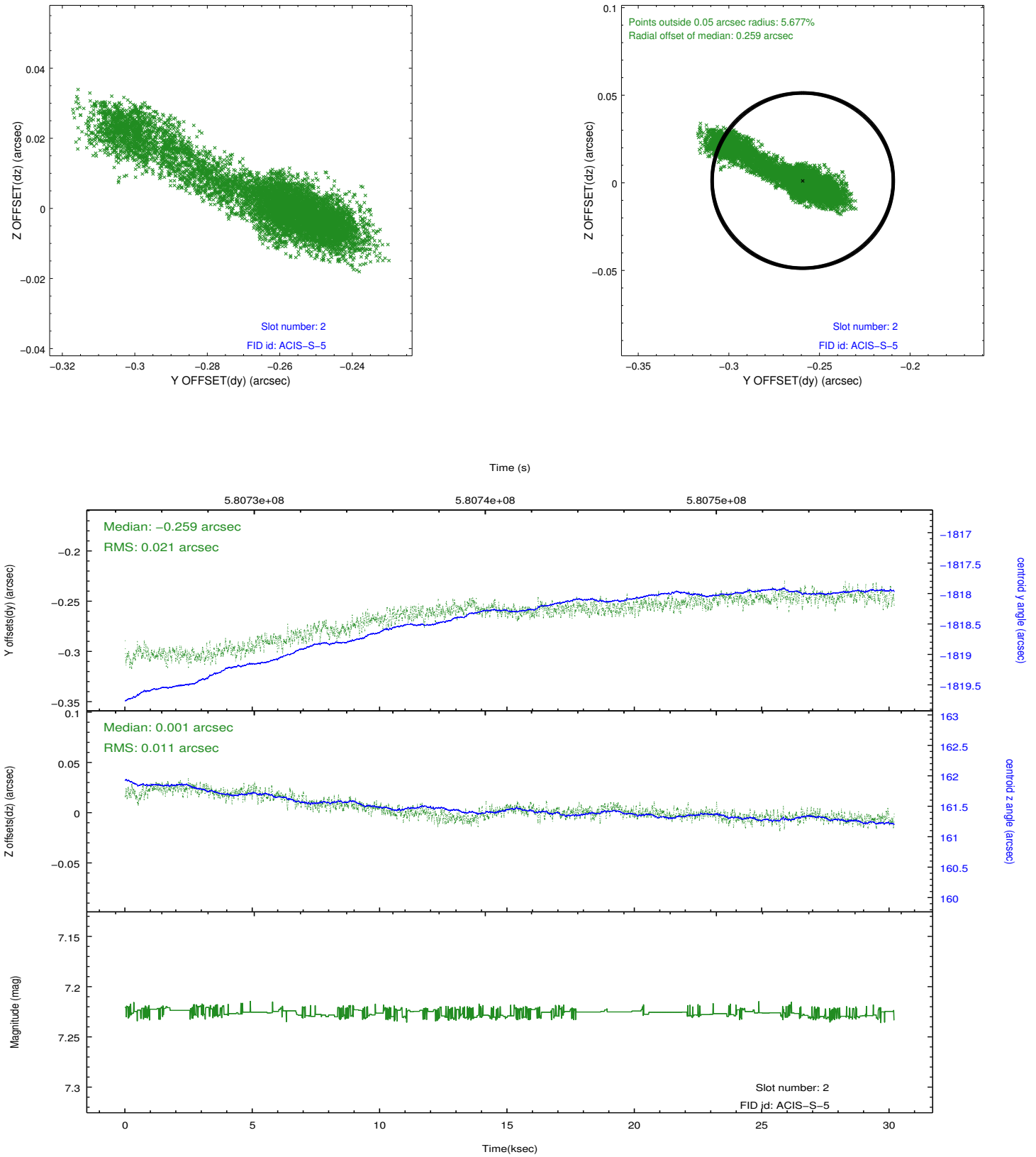
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2016.05.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.068651372313

A.2 Comments