

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 82 - L2 Version 10

Chandra X-Ray Center

L2 Processing Date : Nov 14 2012

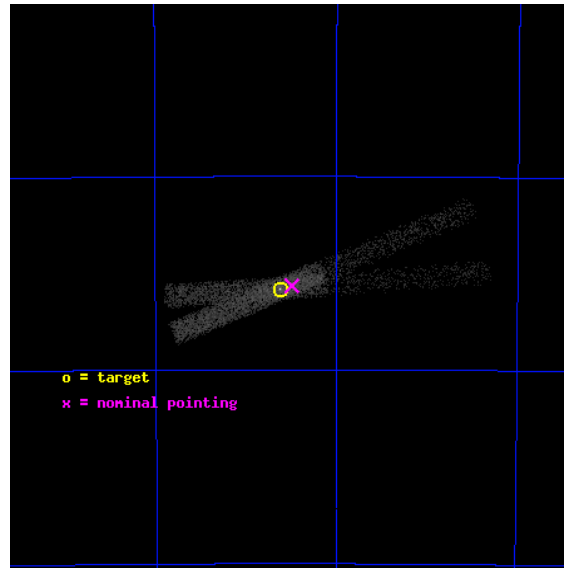
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1 Front

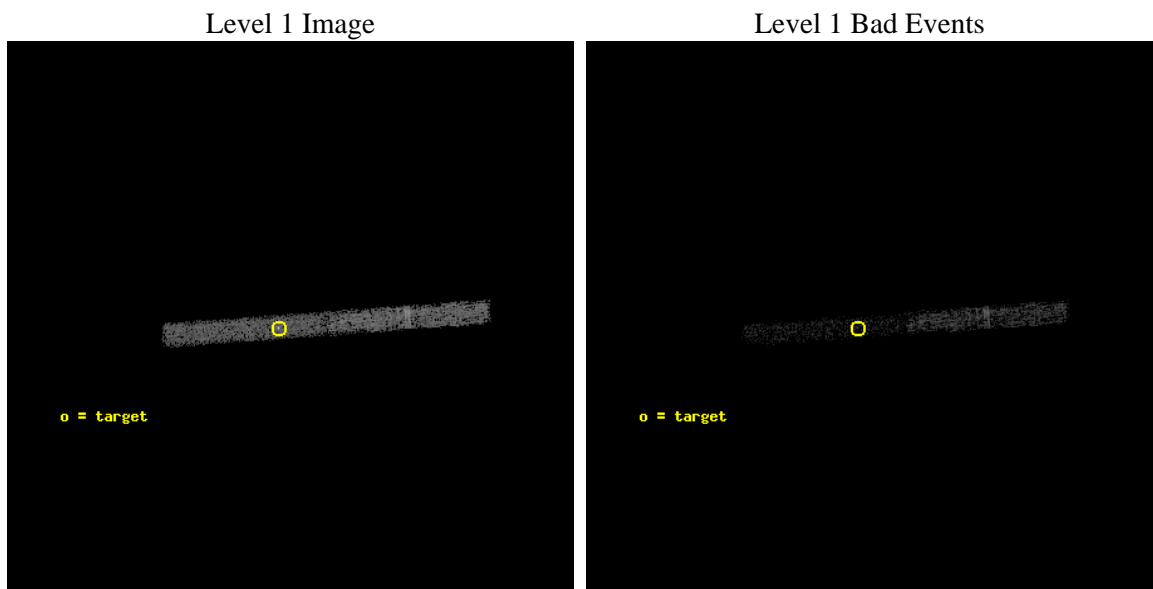
seq_num	300007	Sequence number
obs_id	82	Observation id
title	SUPER-SOFT X-RAY SOURCES	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	1E 0056.8-7154	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	14.654167	Observer's specified target RA [deg]
dec_targ	-71.596667	Observer's specified target Dec [deg]
ra_nom	14.623078180477	Nominal RA [deg]
dec_nom	-71.594098173687	Nominal Dec [deg]
roll_nom	175.81853645986	Nominal Roll [deg]
revision	10	Processing version of data
ontime	14169.475380301	Sum of GTIs [s]
livetime	13094.665256082	Livetime [s]
ontime6	14169.434340298	Sum of GTIs [s]
ontime7	14169.475380301	Sum of GTIs [s]
l2events	11765	Number of level 2 events



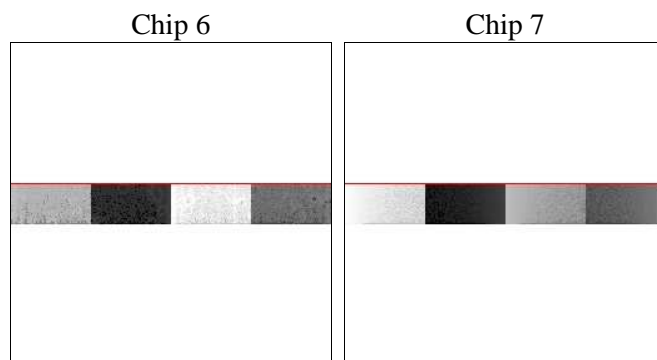
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5271.081000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5696.5	Sum of GTIs [s]
caldsver	4.5.2	 	ontime6	5696.5	Sum of GTIs [s]
date	2012-11-14T18:47:48	Date and time of file creation	ontime7	5696.5	Sum of GTIs [s]
revision	7	Processing version of data	l1events	18669	Number of level 1 events

2.1.4 Events

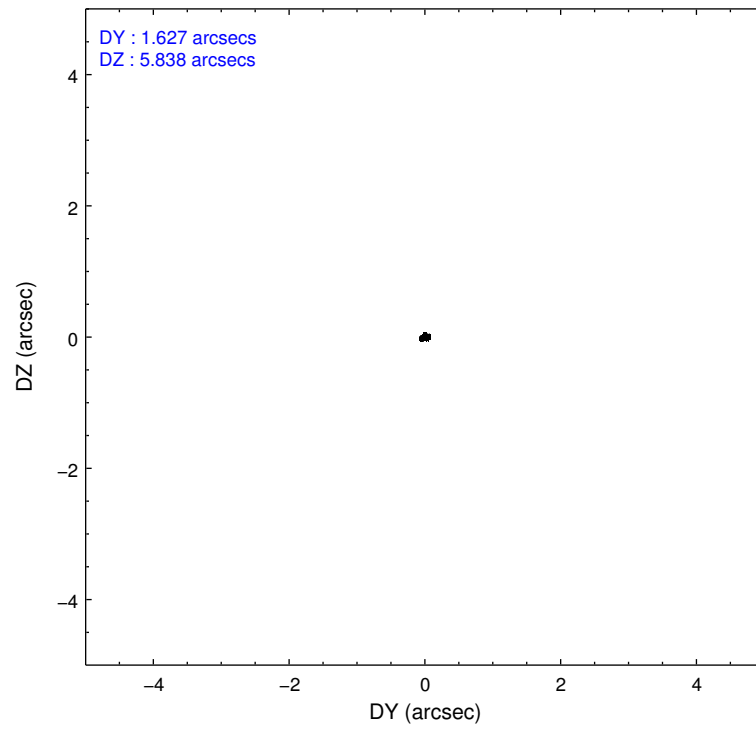
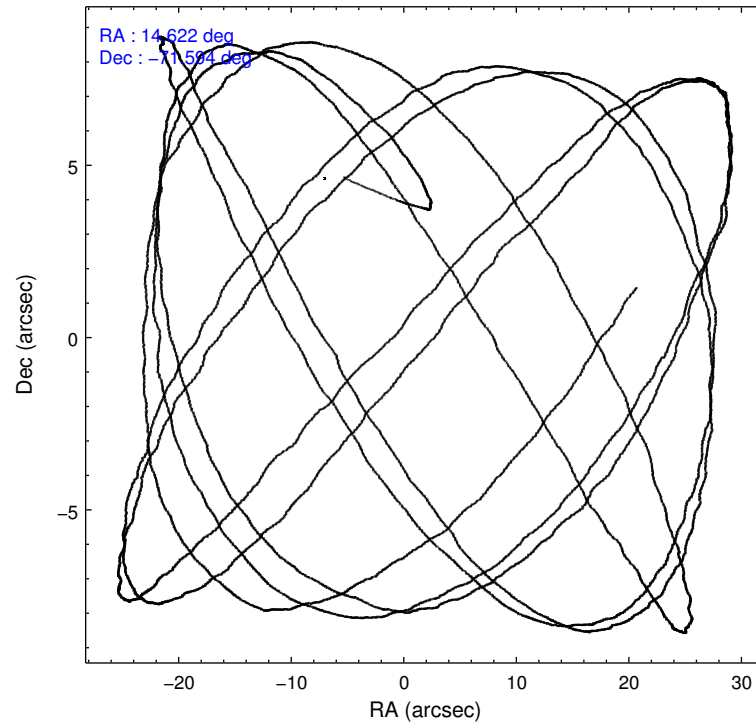
	ccd 6	ccd 7
level 1 events	10115	8554
rejected events	9393	4373
rejected %	92%	51%

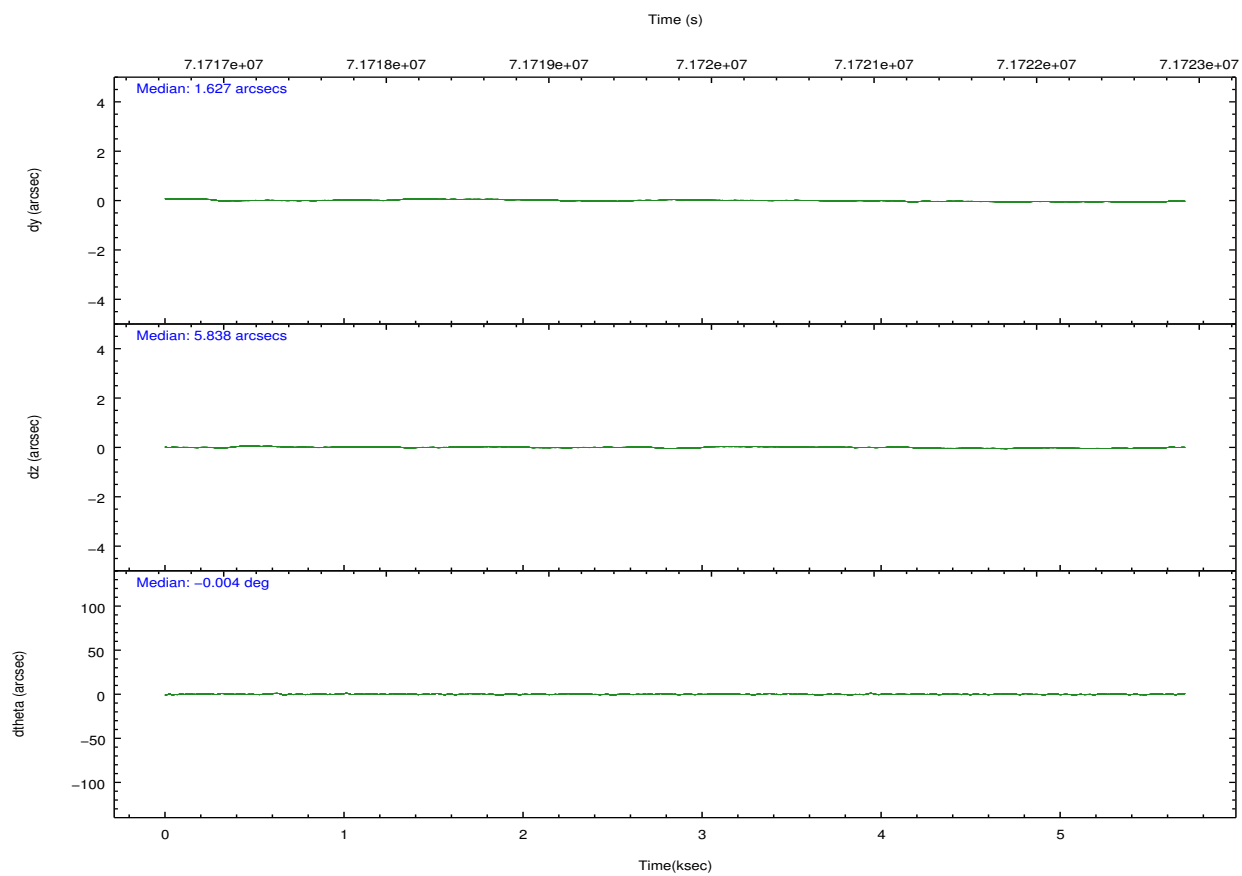
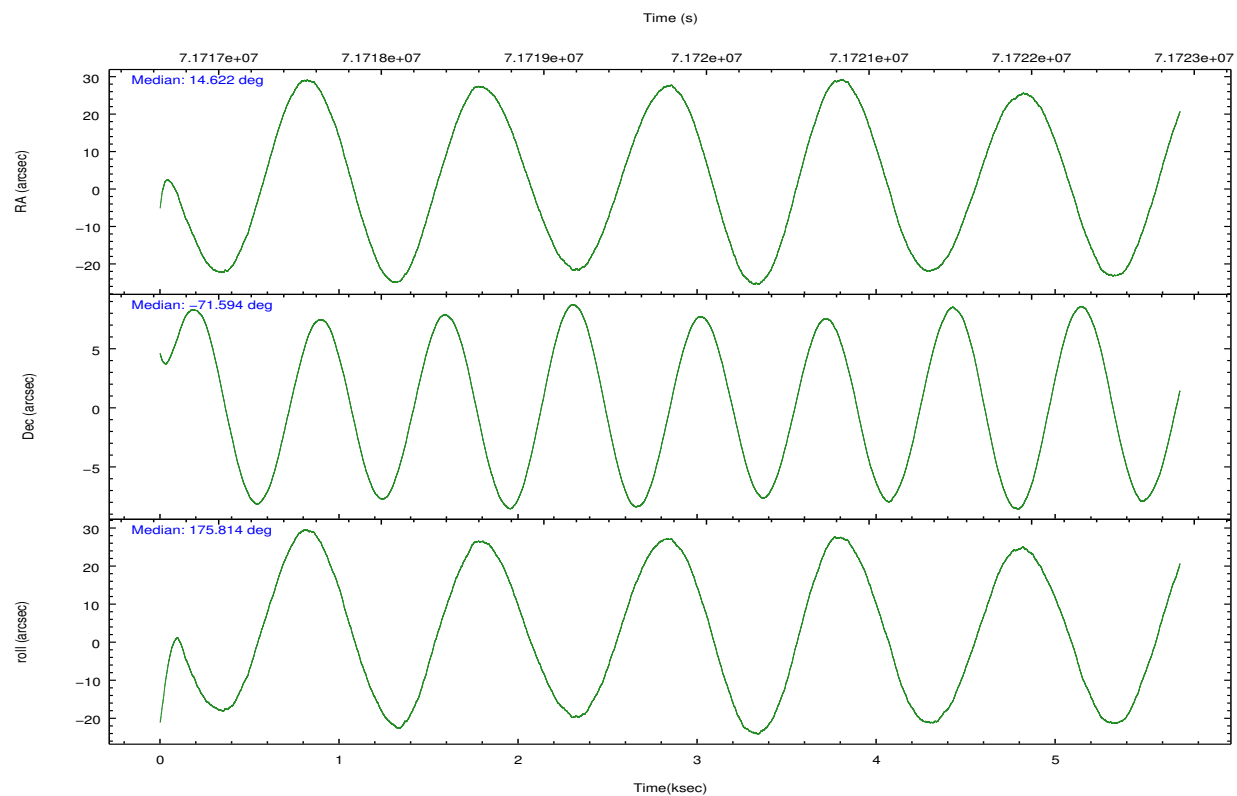
	ccd 6	ccd 7
grade 0 events	265	1424
	2%	16%
grade 1 events	1	21
	0%	0%
grade 2 events	118	832
	1%	9%
grade 3 events	163	499
	1%	5%
grade 4 events	192	471
	1%	5%
grade 5 events	205	667
	2%	7%
grade 6 events	122	1518
	1%	17%
grade 7 events	9049	3122
	89%	36%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-67	ACIS-67	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	14.701567	14.62307818047732	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-71.582070	-71.59409817368703	Subarray start row	448	448
[deg] Pointing Roll	175.736427	175.8185364598625	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	0.5
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	71717359.184000	71715905.79193801			
Observation start date	2000-04-10T01:28:15	2000-04-10T01:05:05			
[s] Observation end time (MET)	71722630.184000	71722939.342196			
Observation end date	2000-04-10T02:56:06	2000-04-10T03:02:19			
Read mode	TIMED	TIMED			

2.3 Aspect



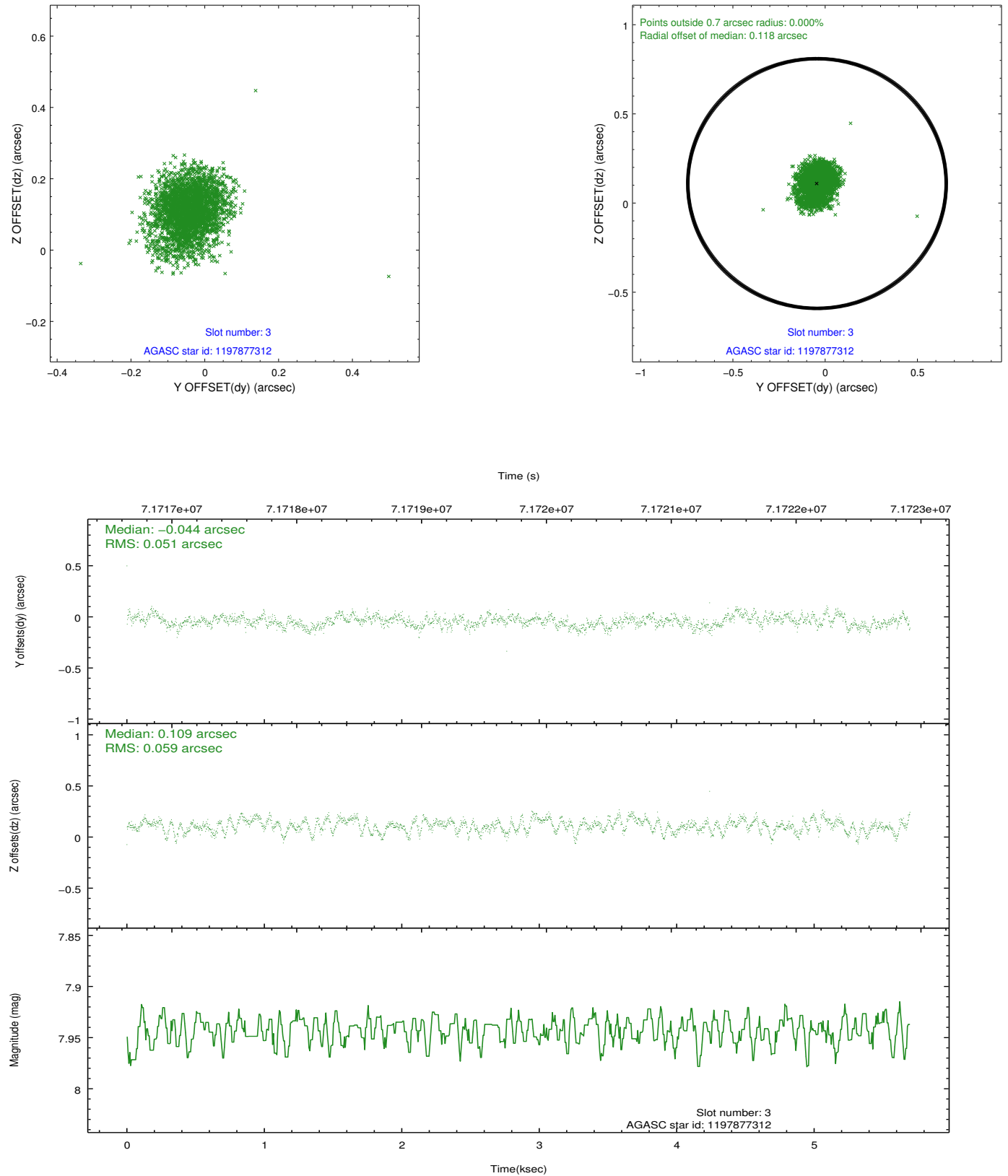


Slot Statistics

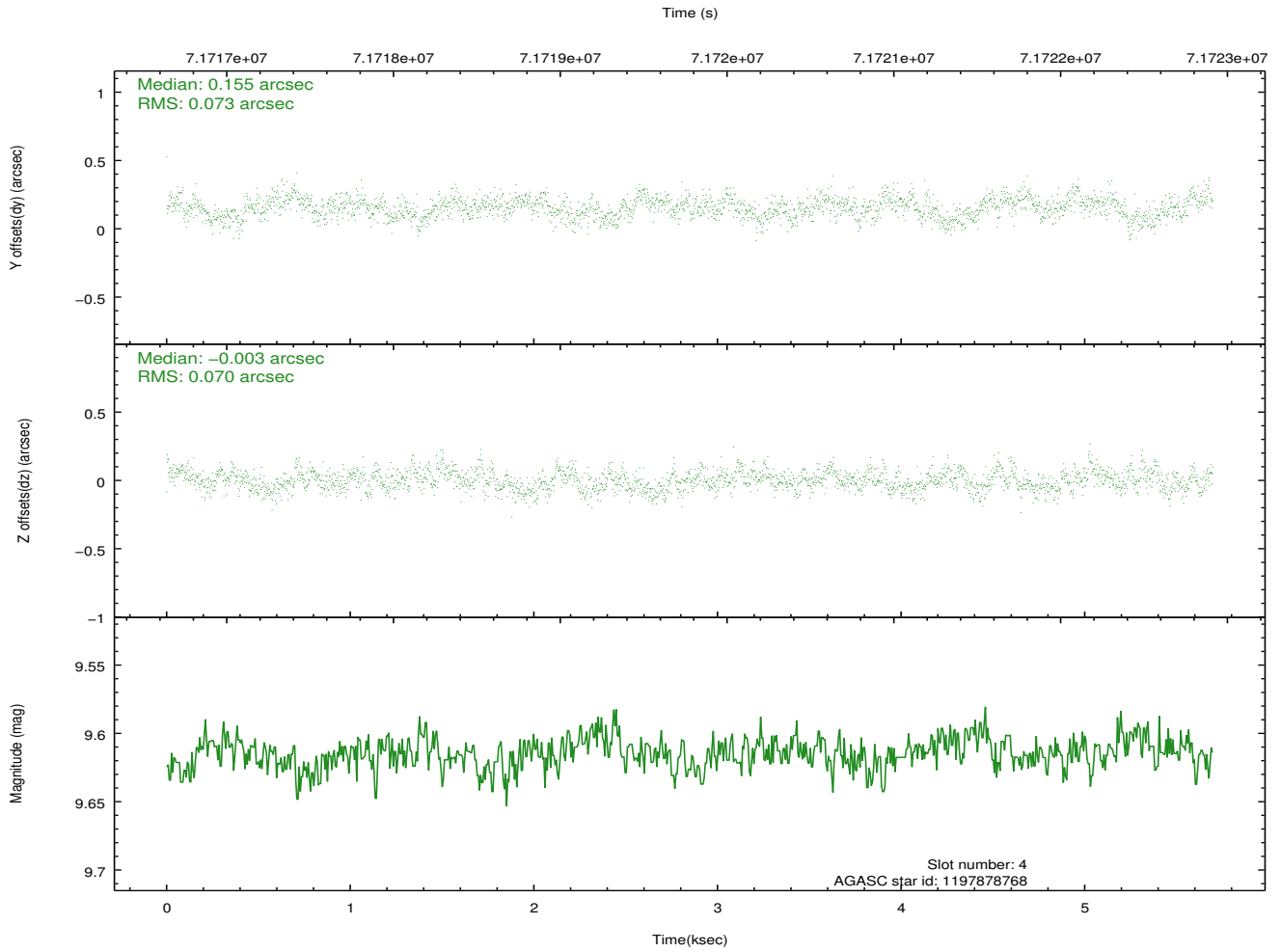
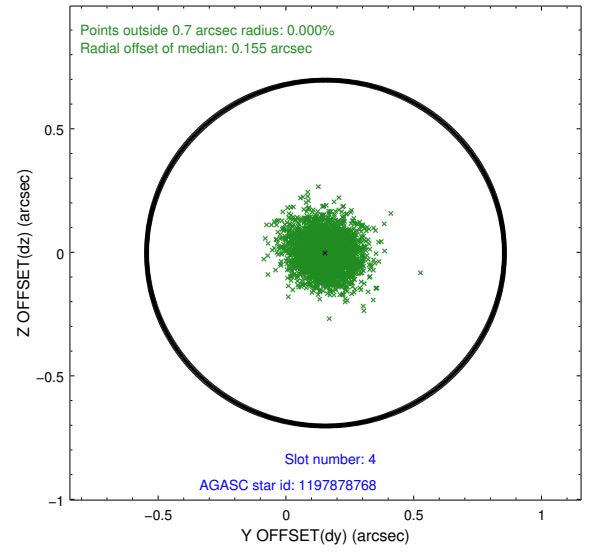
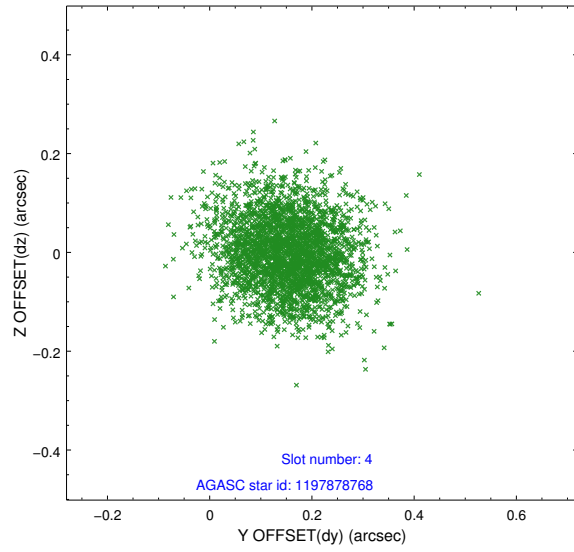
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.36	1390	-0.052	-0.038	0.007	0.011	0.000000	0.000000	58.92	-1856.02
1	FID	ACIS-S-4	7.21	1390	0.007	0.046	0.006	0.011	0.000000	0.000000	2159.17	180.43
2	FID	ACIS-S-5	7.24	1390	0.017	0.002	0.006	0.011	0.000000	0.000000	-1805.70	175.35
3	GUIDE	1197877312	7.94	2780	-0.044	0.109	0.082	0.134	16.362782	-70.933298	-1777.64	-2447.73
4	GUIDE	1197878768	9.62	2778	0.155	-0.003	0.107	0.175	16.656786	-71.304581	-2179.76	-1128.66
5	GUIDE	1197749416	10.25	2779	0.086	-0.029	0.190	0.295	13.610513	-71.871242	1138.42	1139.53
6	GUIDE	1197750160	10.24	2779	-0.062	0.044	0.156	0.258	12.997994	-71.773722	1858.33	858.08
7	GUIDE	1197750544	10.73	2773	-0.127	-0.128	0.161	0.264	13.428125	-72.143881	1249.44	2136.38

2.4 Star Slots

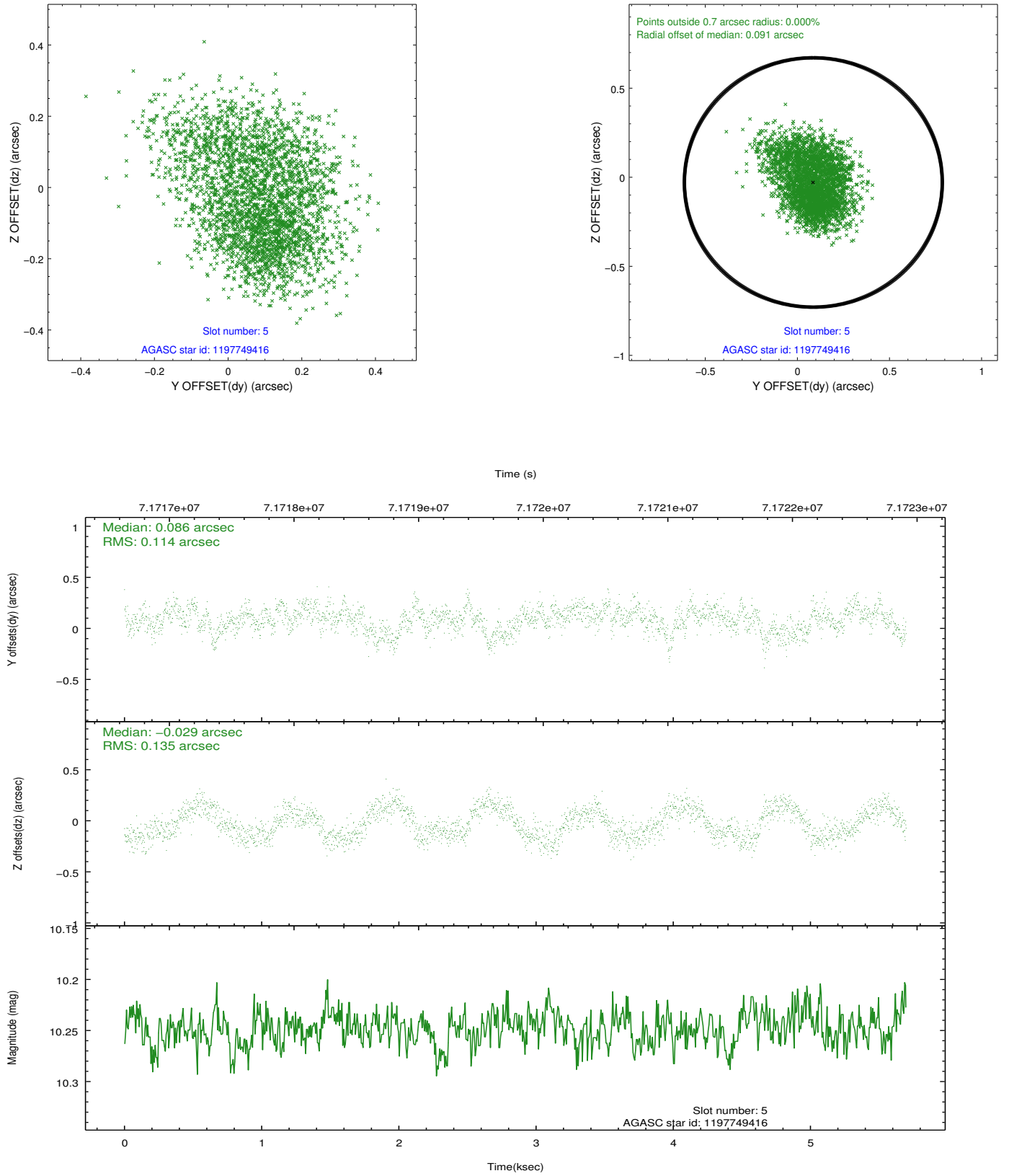
2.4.1 Slot 3



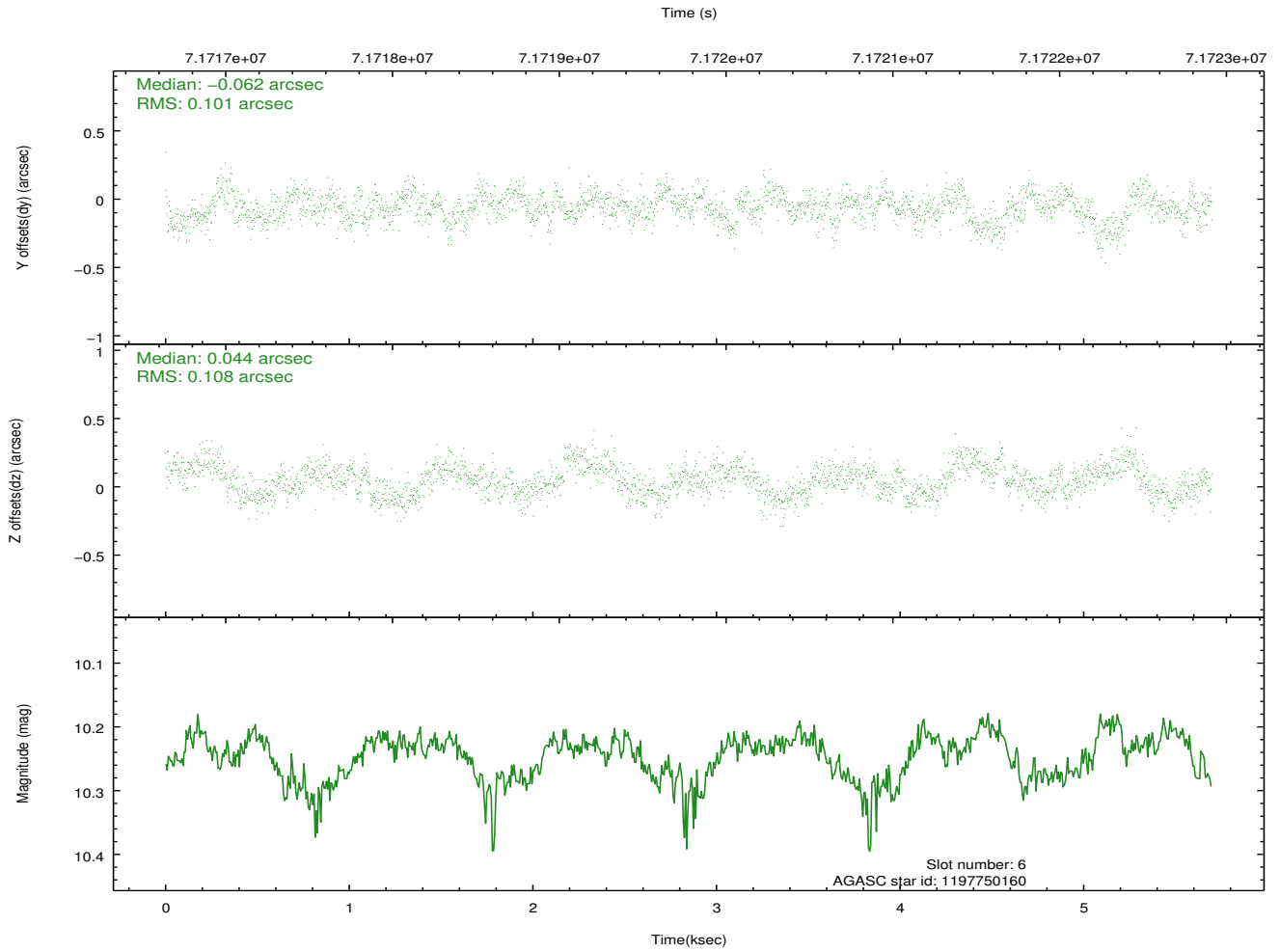
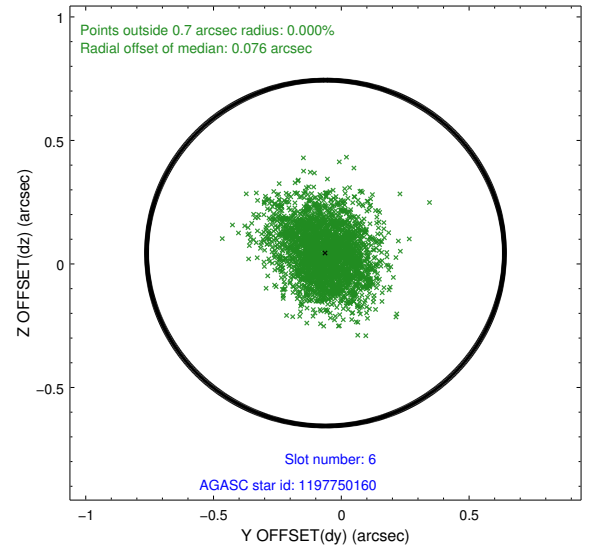
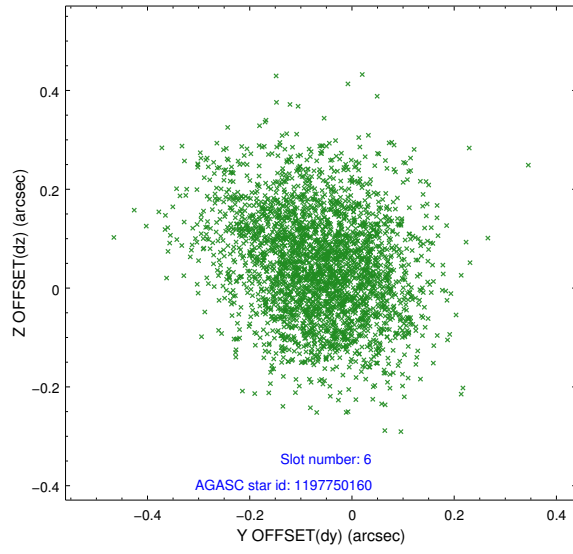
2.4.2 Slot 4



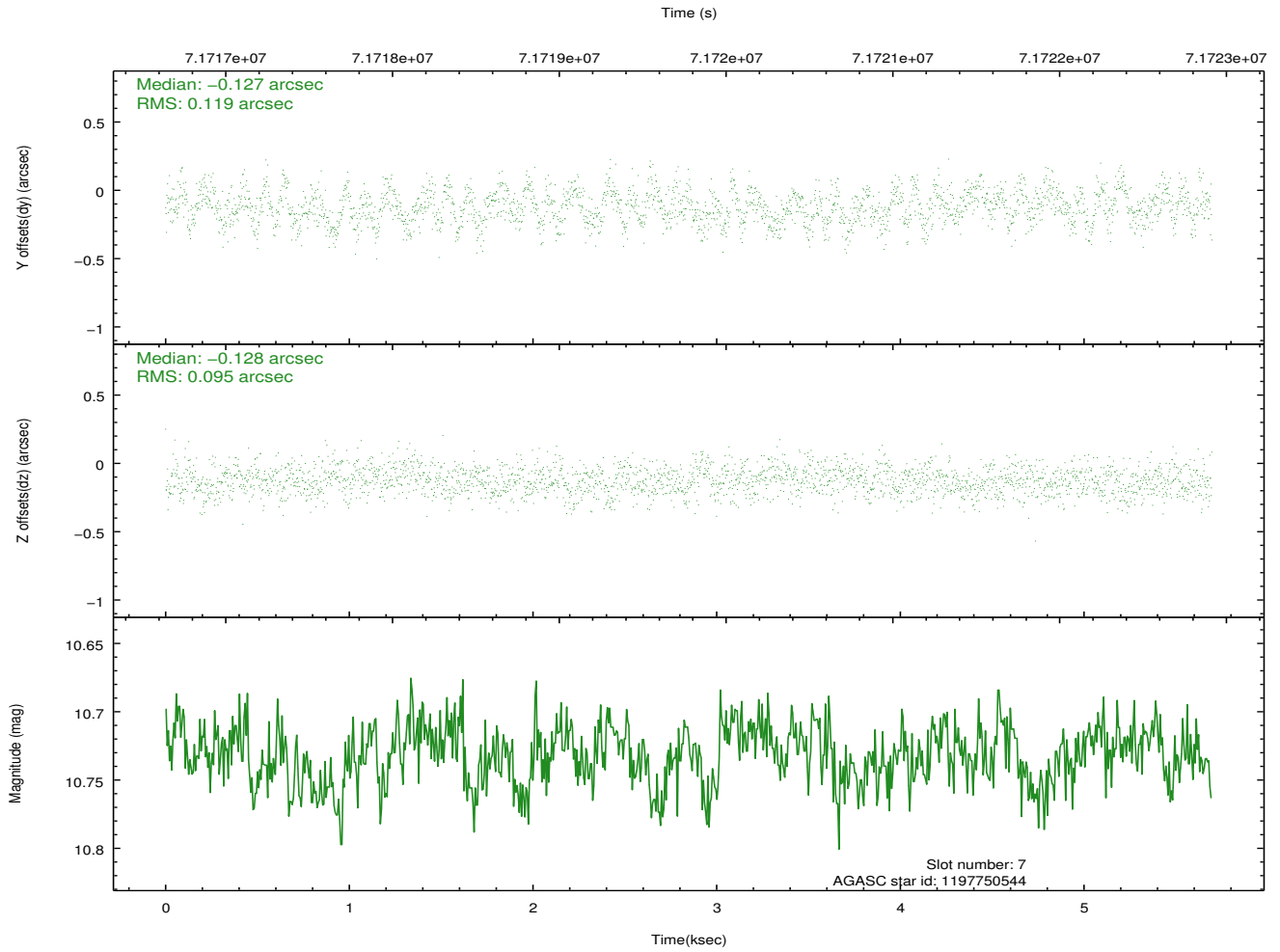
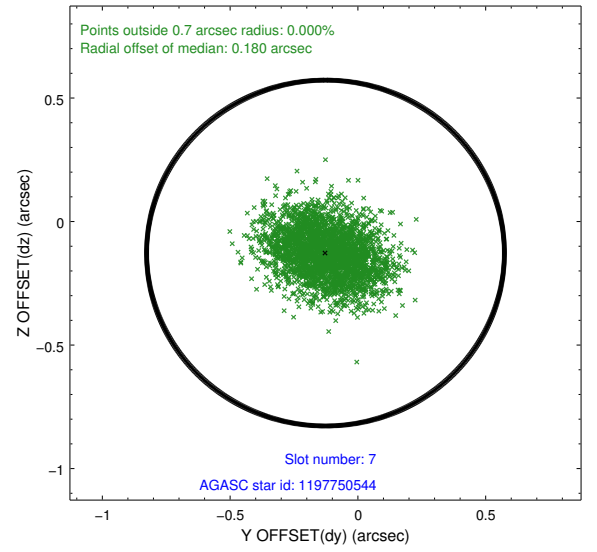
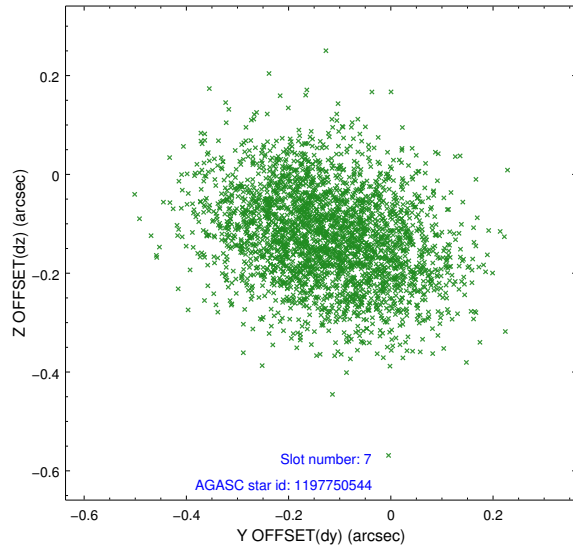
2.4.3 Slot 5



2.4.4 Slot 6

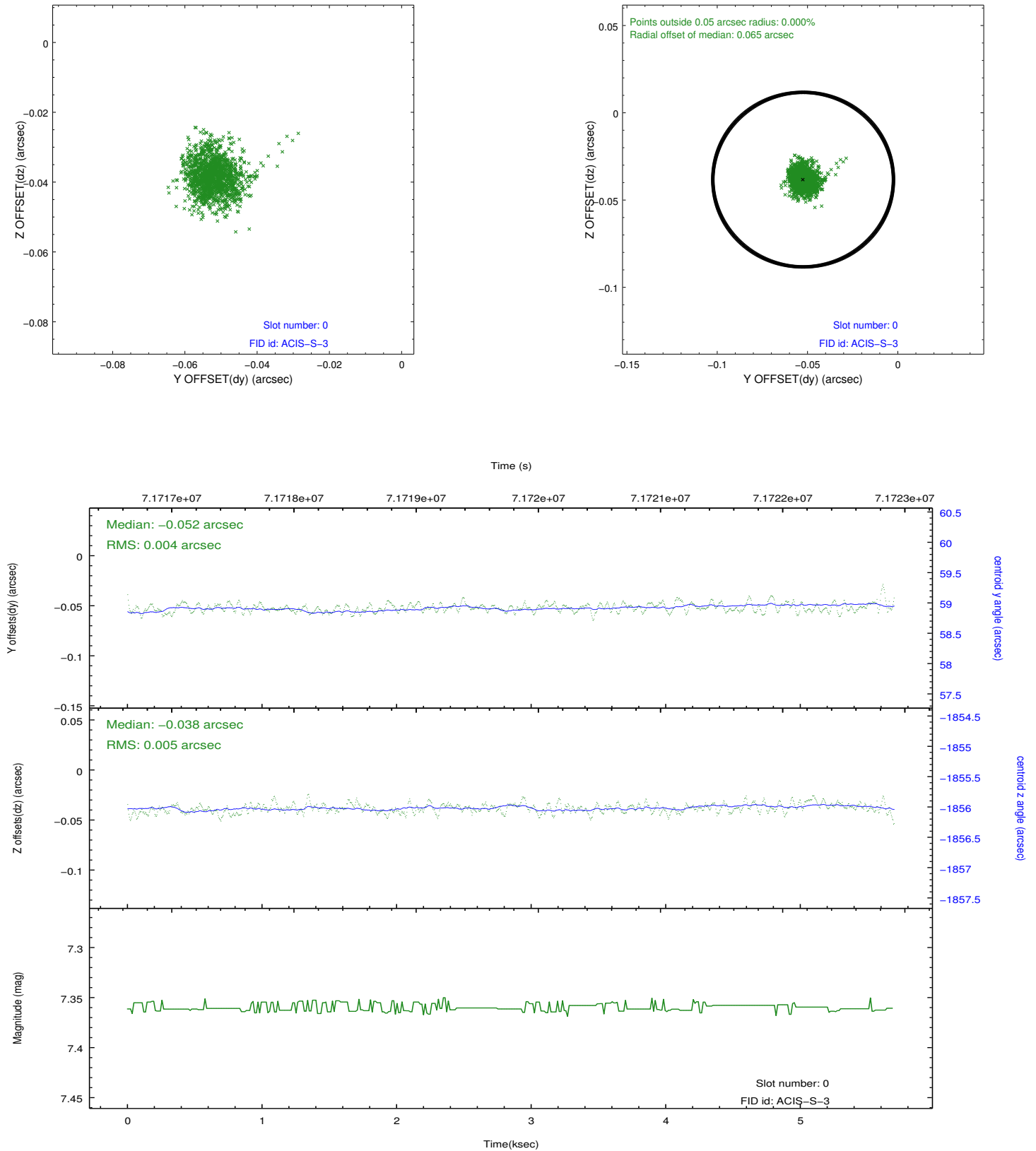


2.4.5 Slot 7

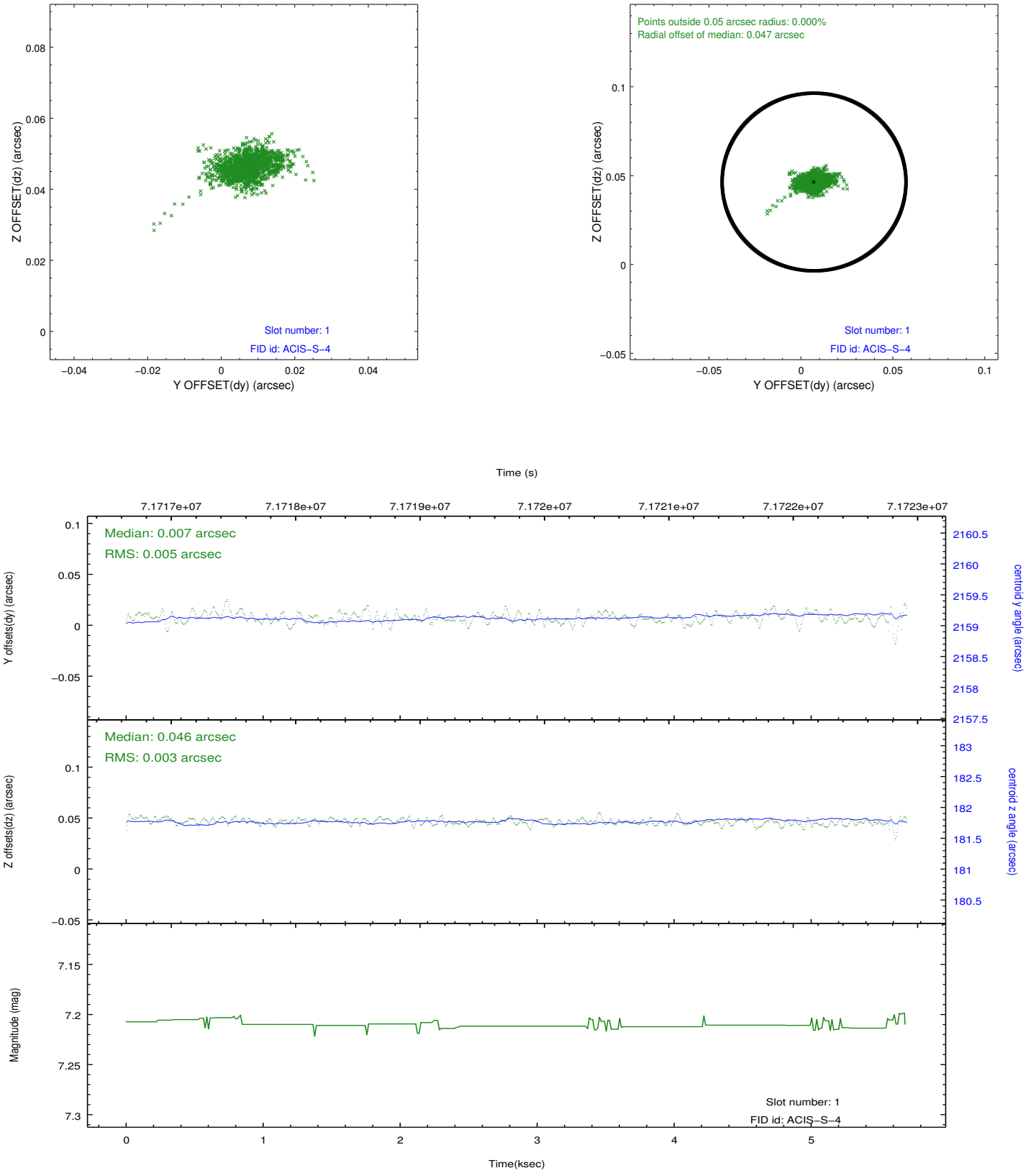


2.5 FID Slots

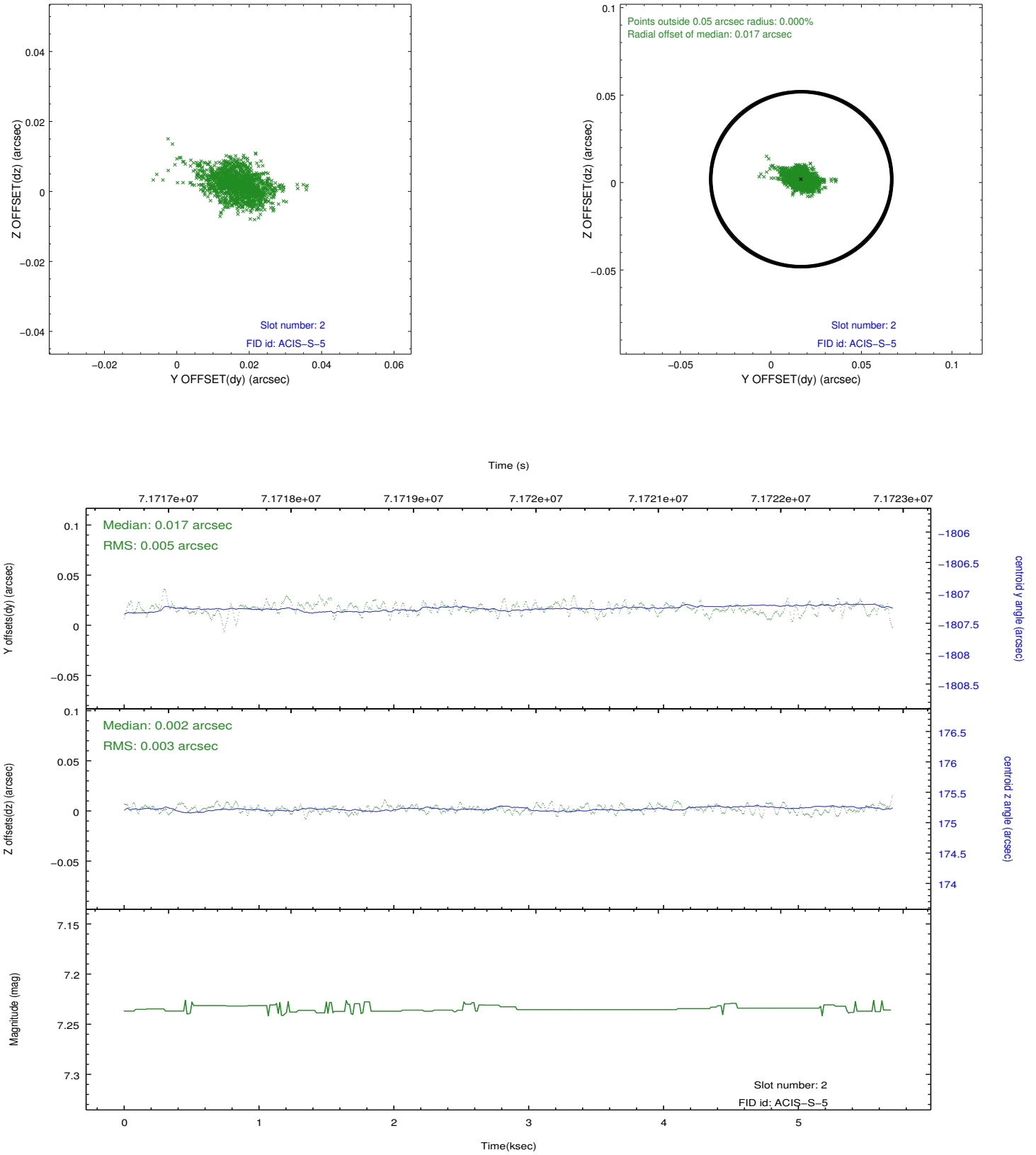
2.5.1 Slot 0



2.5.2 Slot 1



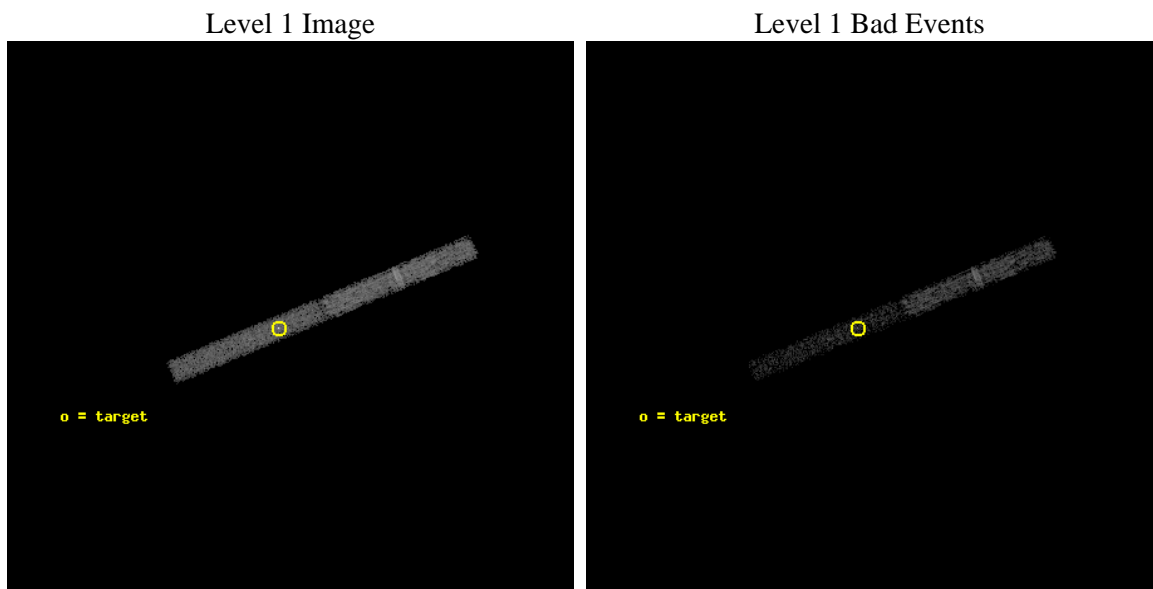
2.5.3 Slot 2



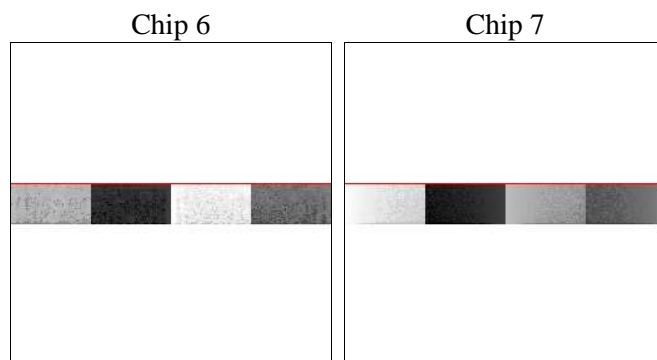
3 OBI

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	8600.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8472.9753803015	Sum of GTIs [s]
caldsver	4.5.2	 	ontime6	8472.9343402982	Sum of GTIs [s]
date	2012-11-14T18:54:49	Date and time of file creation	ontime7	8472.9753803015	Sum of GTIs [s]
revision	8	Processing version of data	l1events	25524	Number of level 1 events

3.1.4 Events

	ccd 6	ccd 7
level 1 events	13781	11743
rejected events	12592	5279
rejected %	91%	44%

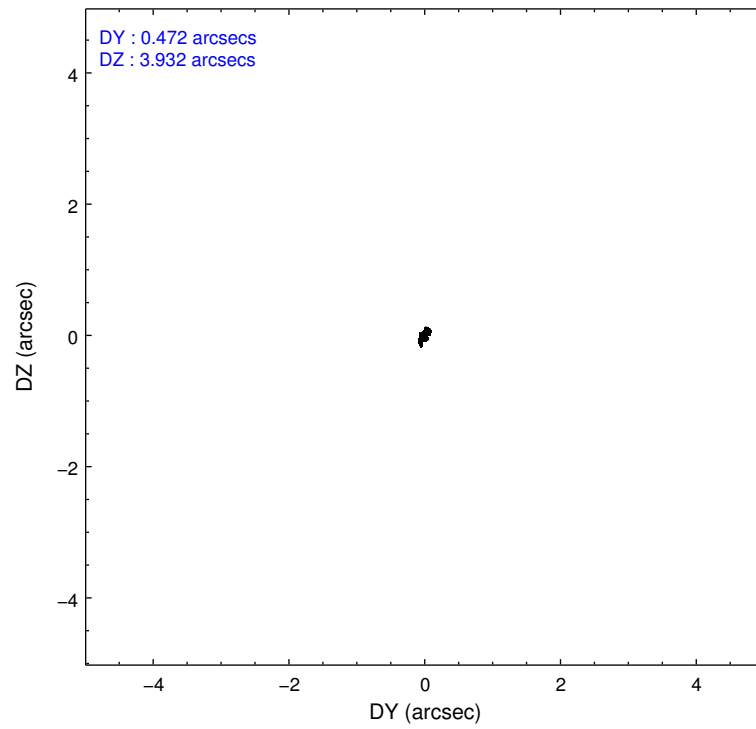
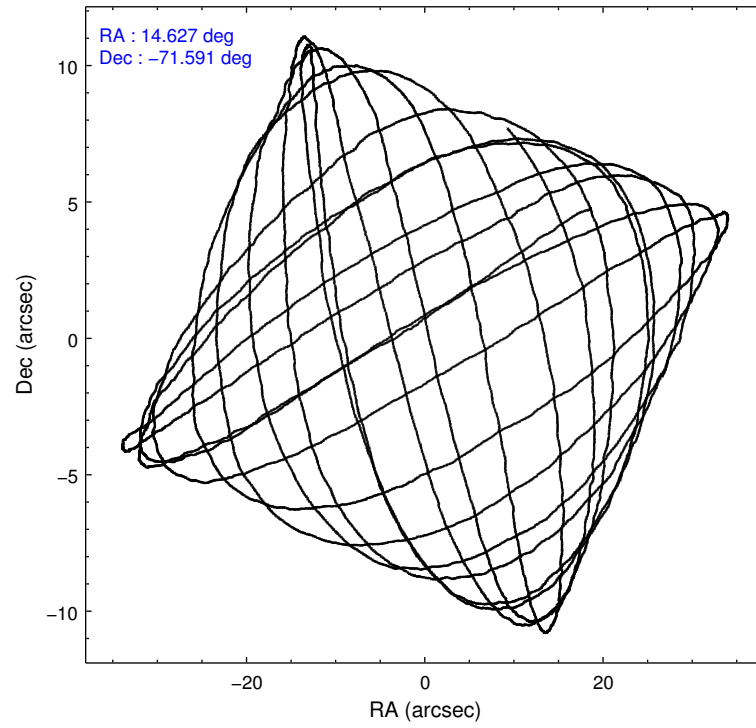
	ccd 6	ccd 7
grade 0 events	352	2011
	2%	17%
grade 1 events	5	38
	0%	0%
grade 2 events	162	1046
	1%	8%
grade 3 events	264	674
	1%	5%
grade 4 events	245	669
	1%	5%
grade 5 events	275	952
	1%	8%
grade 6 events	166	2065
	1%	17%
grade 7 events	12312	4288
	89%	36%

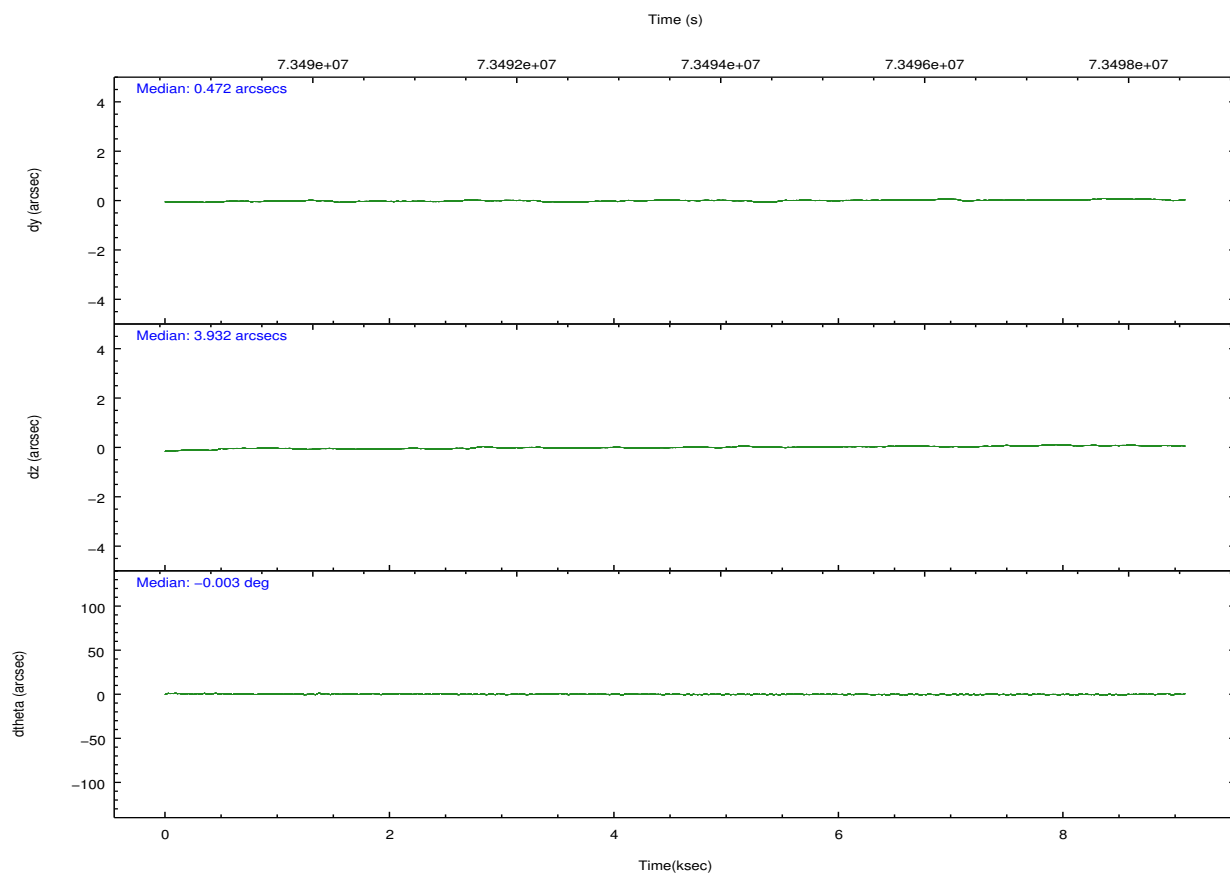
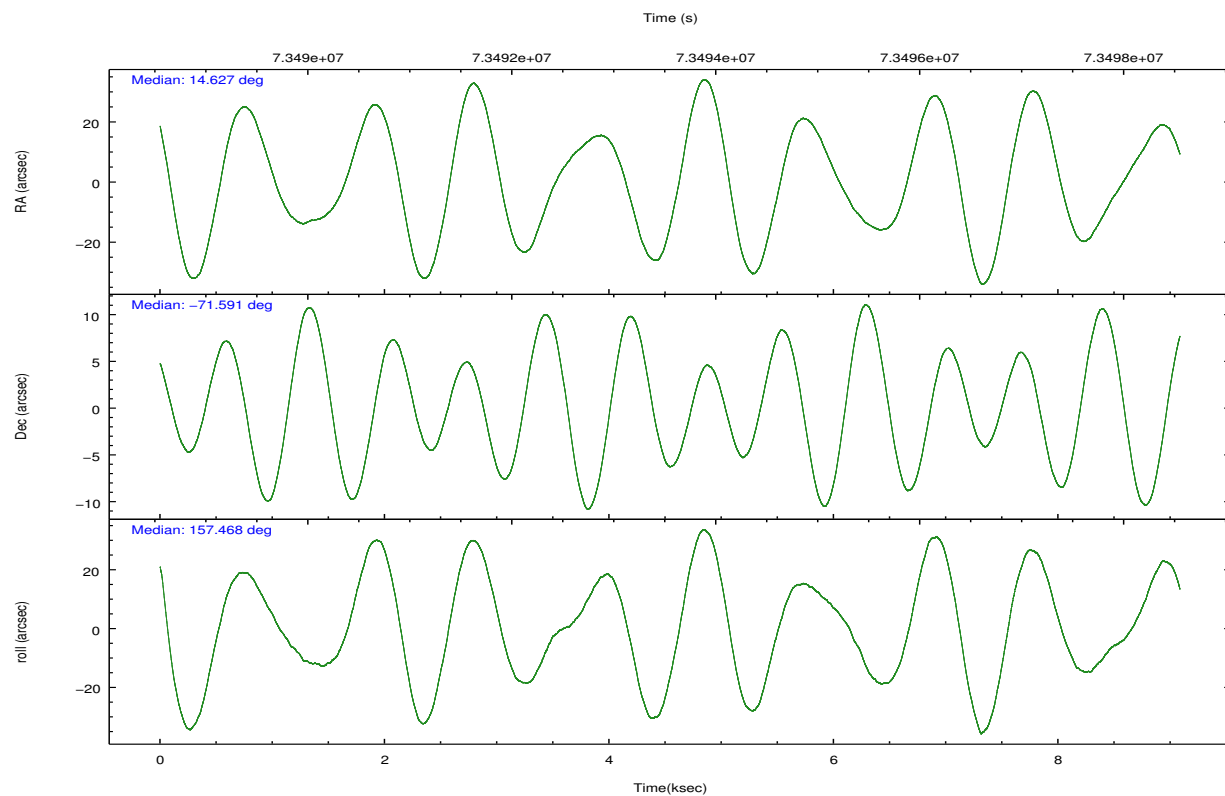
3.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-67	ACIS-67
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	14.713698	14.62752415545021
[deg] Pointing Dec	-71.587533	-71.59121381052196
[deg] Pointing Roll	157.401226	157.4760836602611
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	73489496.184000	73488824.269466
Observation start date	2000-04-30T13:43:52	2000-04-30T13:33:44
[s] Observation end time (MET)	73498096.184000	73498855.432335
Observation end date	2000-04-30T16:07:12	2000-04-30T16:20:55
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	448	448
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.5

3.3 Aspect



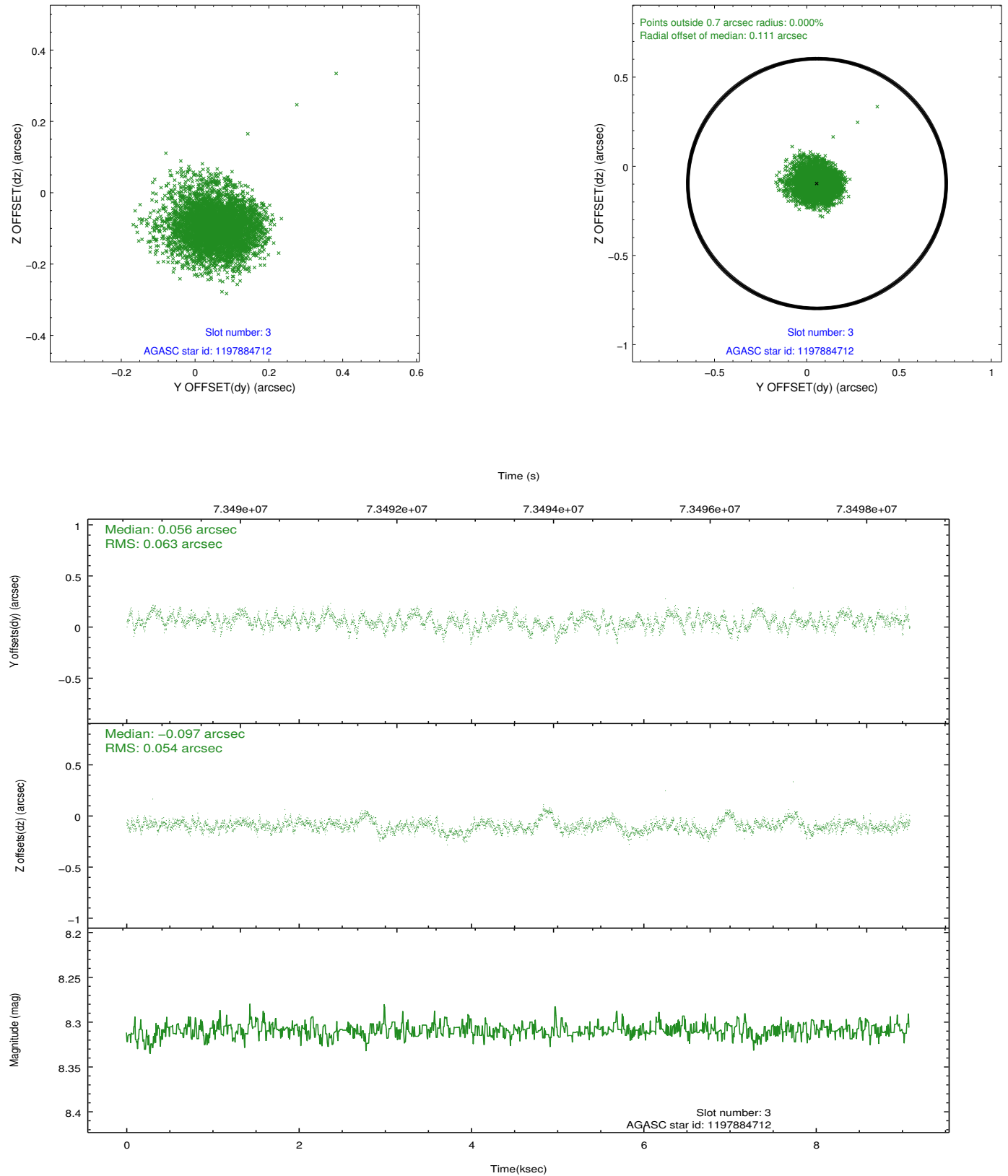


Slot Statistics

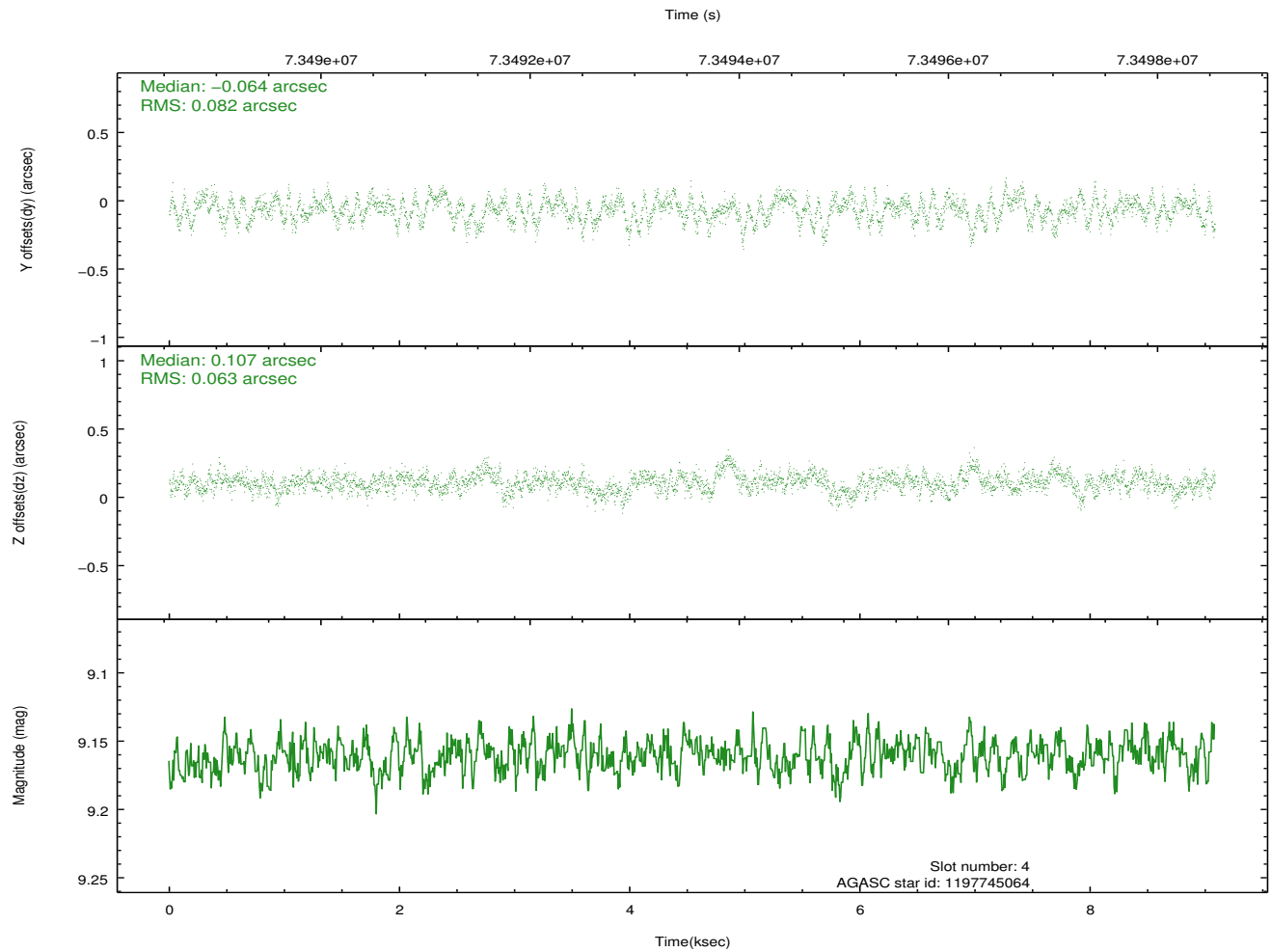
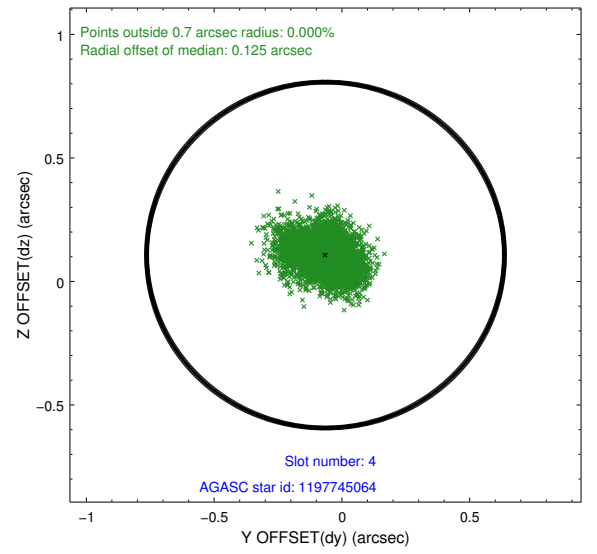
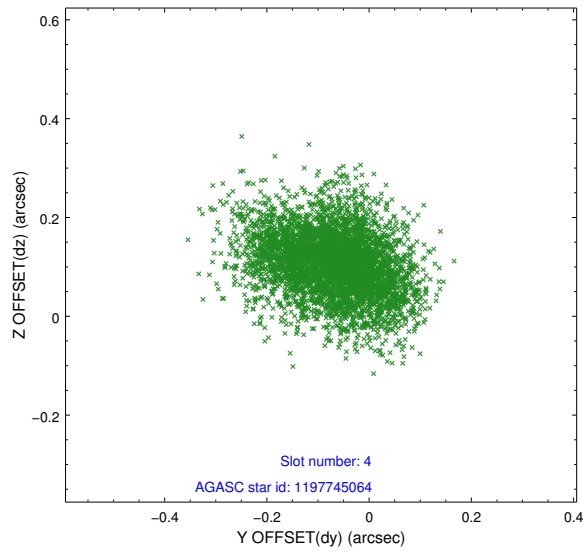
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.36	1390	-0.052	-0.038	0.007	0.011	0.000000	0.000000	58.92	-1856.02
1	FID	ACIS-S-4	7.21	1390	0.007	0.046	0.006	0.011	0.000000	0.000000	2159.17	180.43
2	FID	ACIS-S-5	7.24	1390	0.017	0.002	0.006	0.011	0.000000	0.000000	-1805.70	175.35
3	GUIDE	1197877312	7.94	2780	-0.044	0.109	0.082	0.134	16.362782	-70.933298	-1777.64	-2447.73
4	GUIDE	1197878768	9.62	2778	0.155	-0.003	0.107	0.175	16.656786	-71.304581	-2179.76	-1128.66
5	GUIDE	1197749416	10.25	2779	0.086	-0.029	0.190	0.295	13.610513	-71.871242	1138.42	1139.53
6	GUIDE	1197750160	10.24	2779	-0.062	0.044	0.156	0.258	12.997994	-71.773722	1858.33	858.08
7	GUIDE	1197750544	10.73	2773	-0.127	-0.128	0.161	0.264	13.428125	-72.143881	1249.44	2136.38

3.4 Star Slots

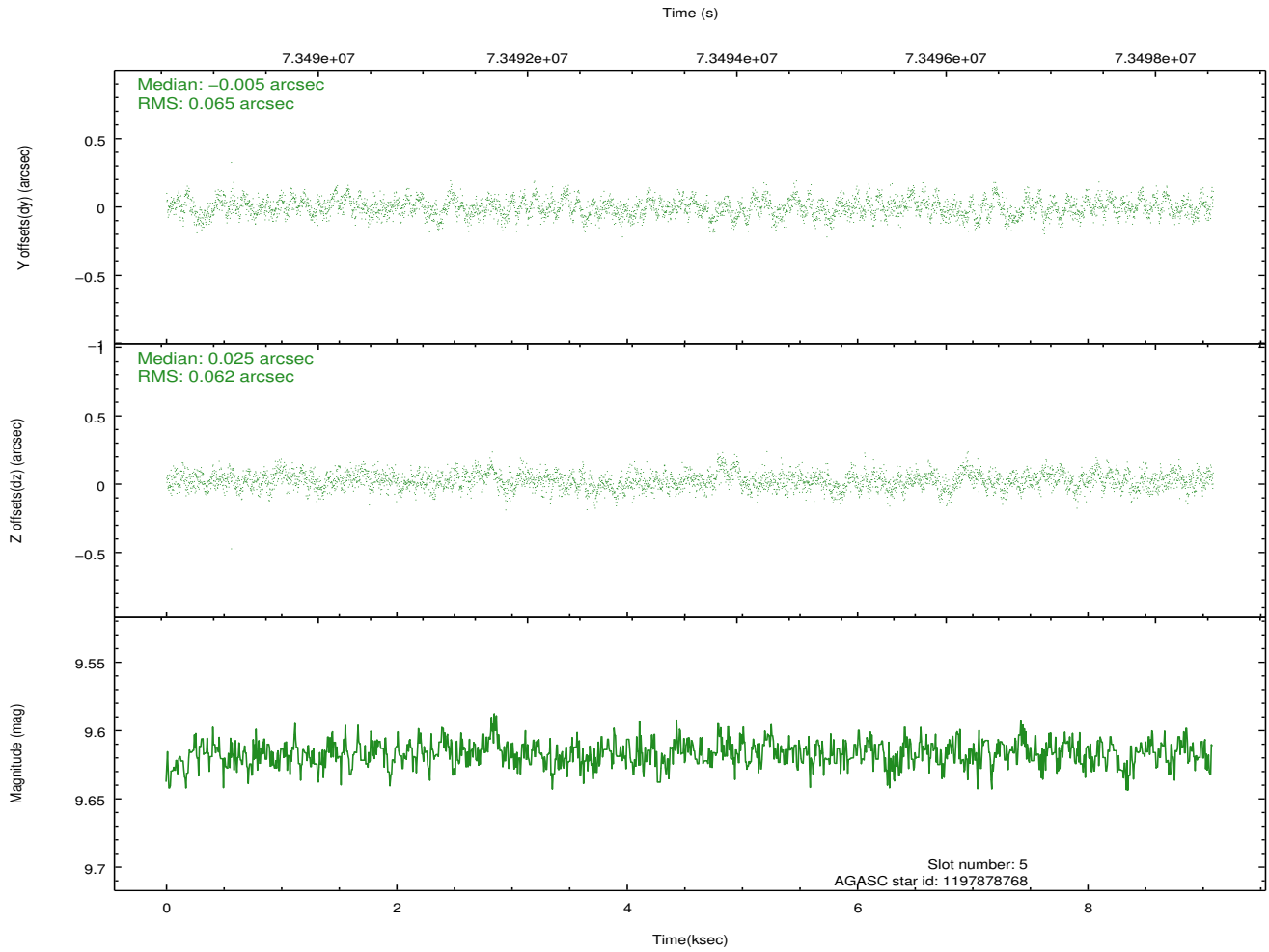
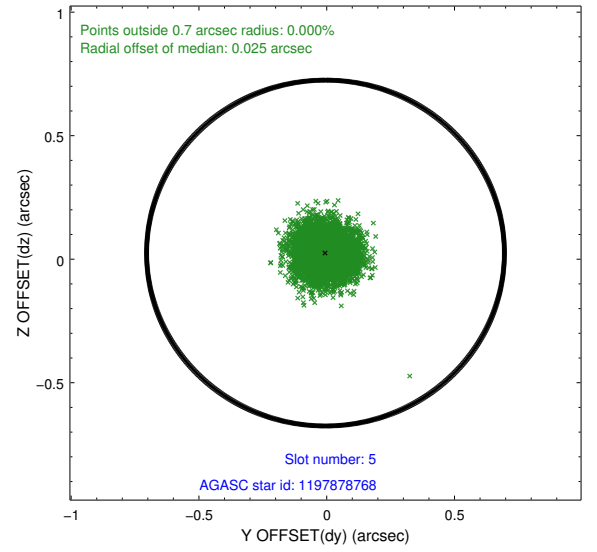
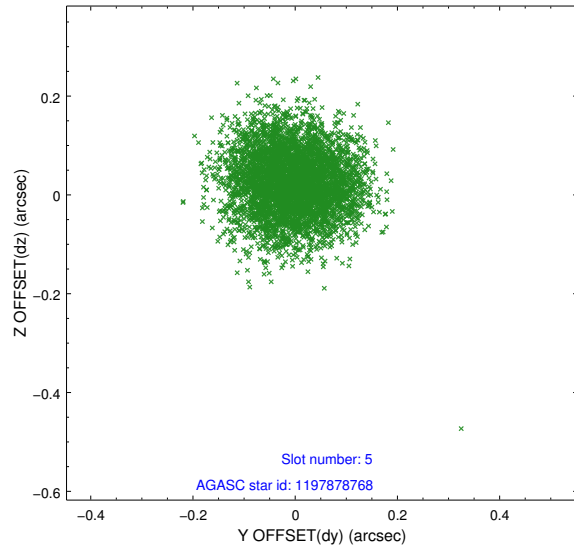
3.4.1 Slot 3



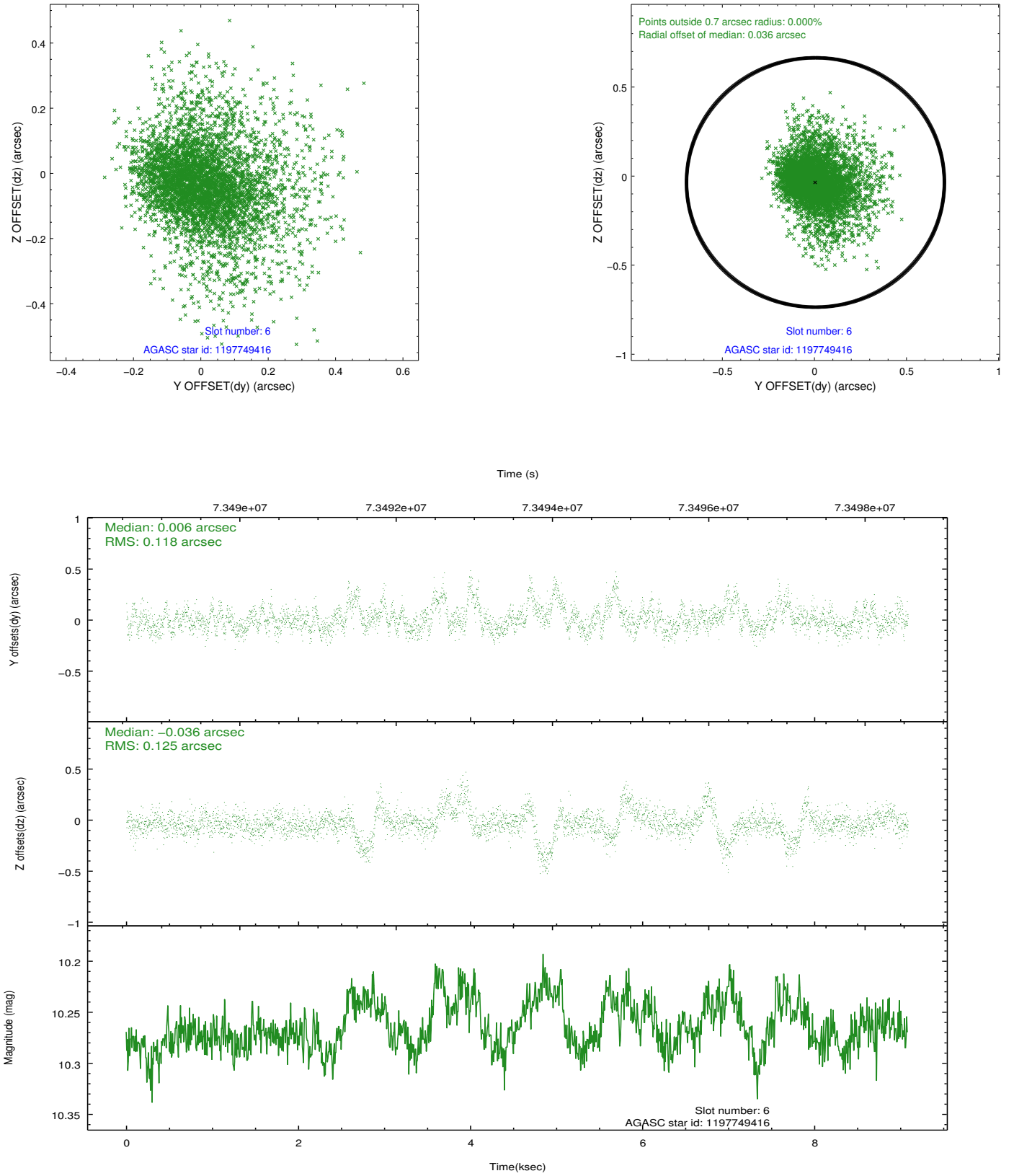
3.4.2 Slot 4



3.4.3 Slot 5

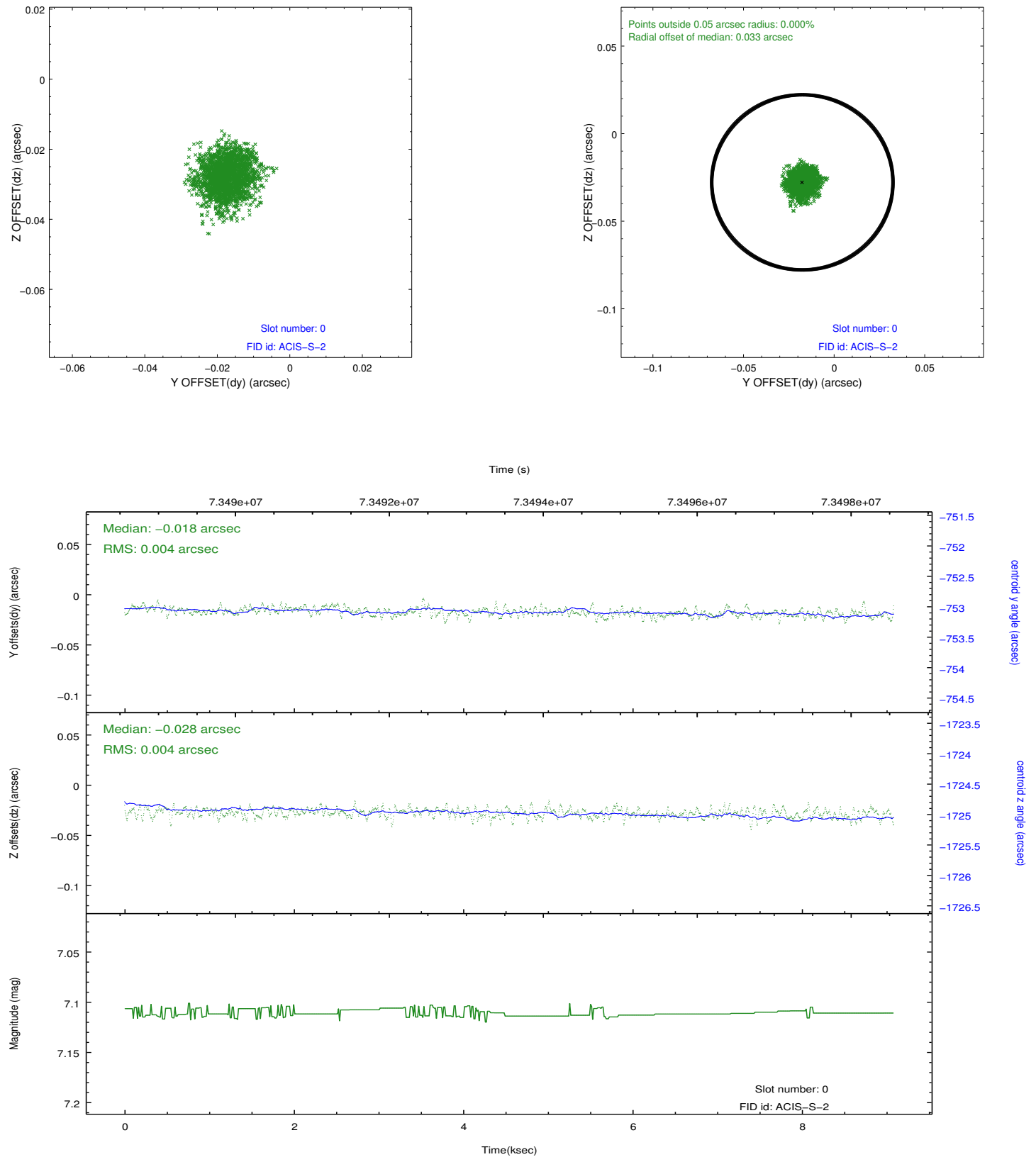


3.4.4 Slot 6

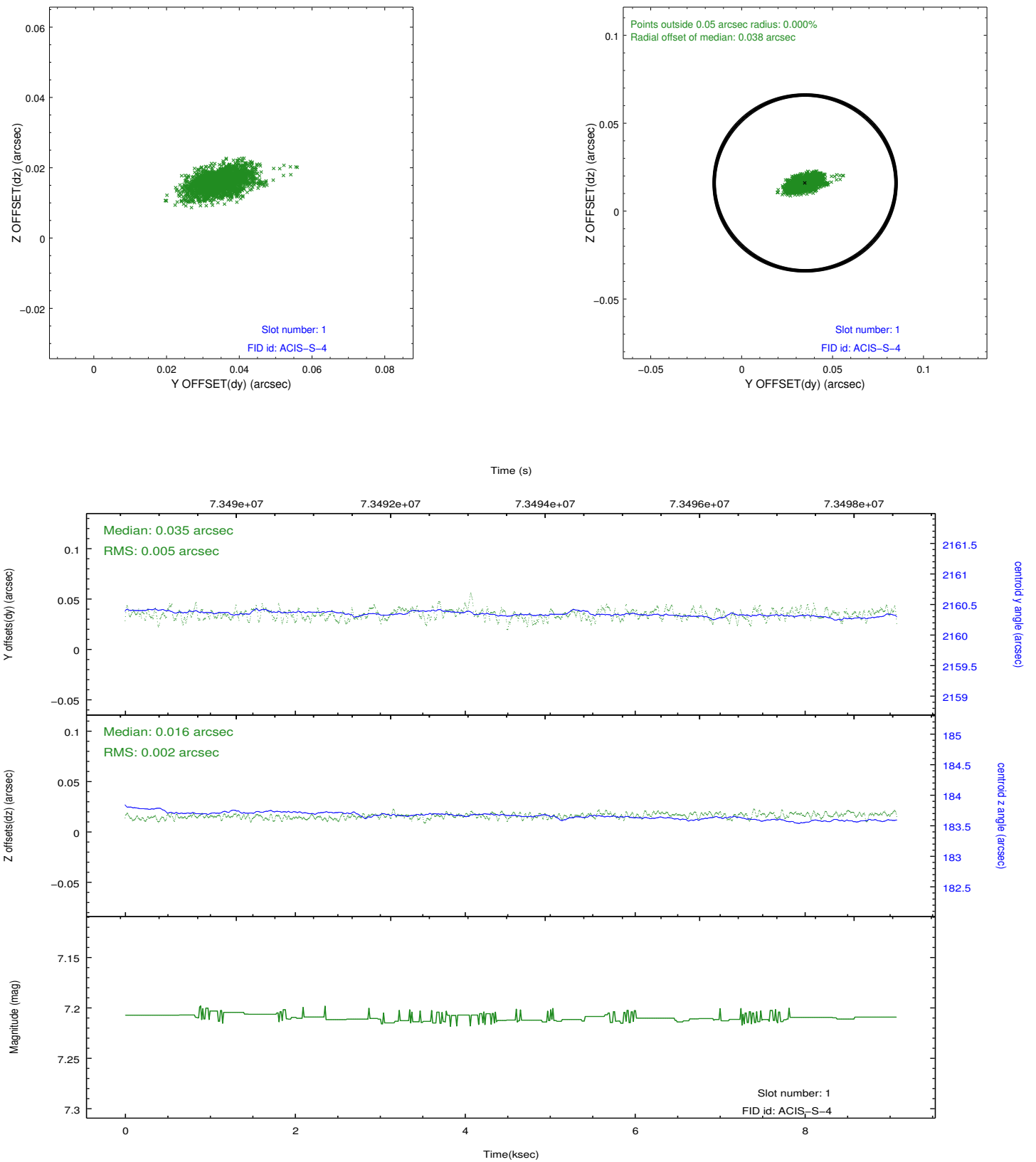


3.5 FID Slots

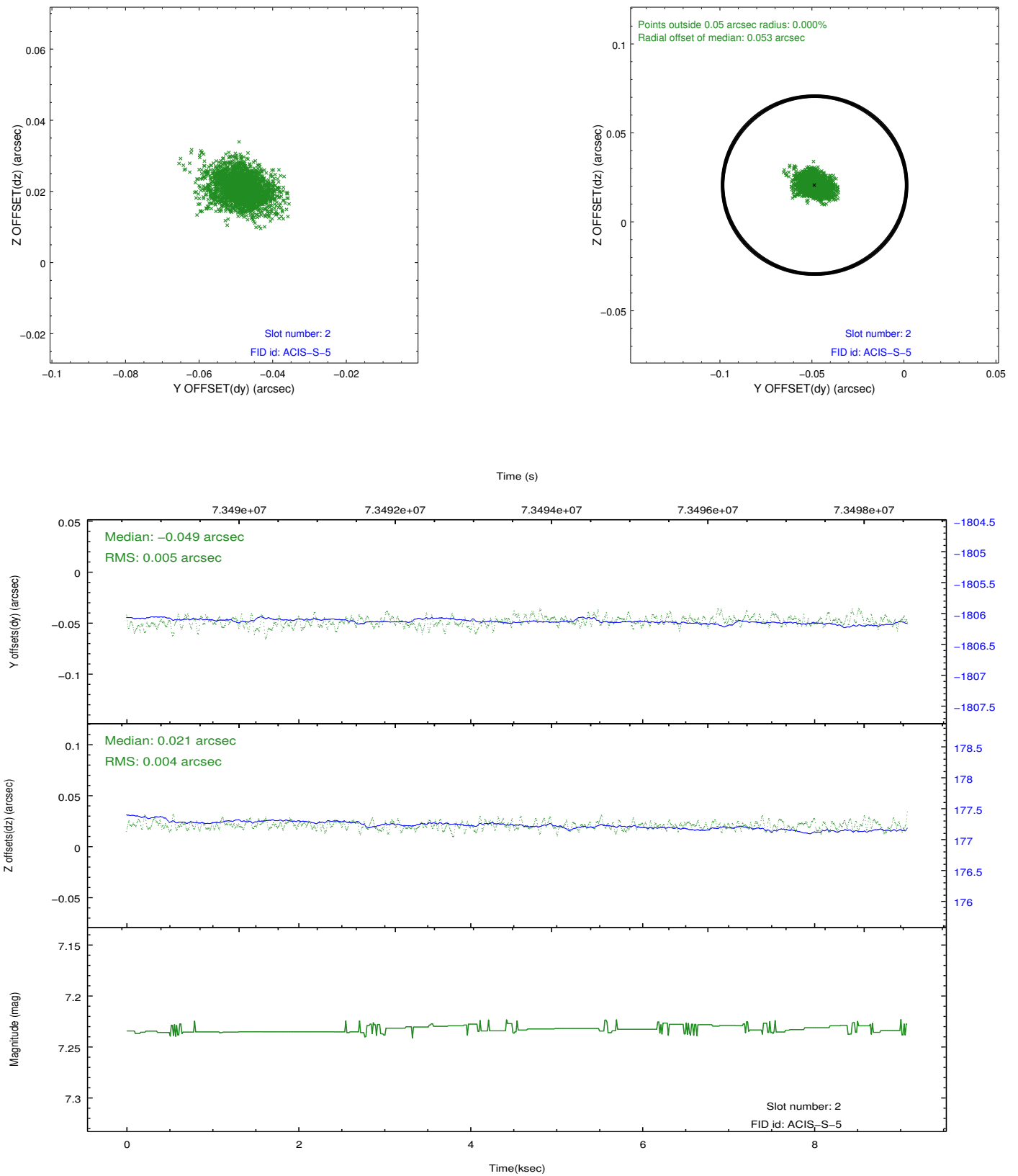
3.5.1 Slot 0



3.5.2 Slot 1



3.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.11.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.17

A.2 Comments

For obi=2 only, the guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution for obi=2. Slot 7 guide star was used in the aspect solution for obi=1.