

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 6313 - L2 Version 002
Chandra X-Ray Center

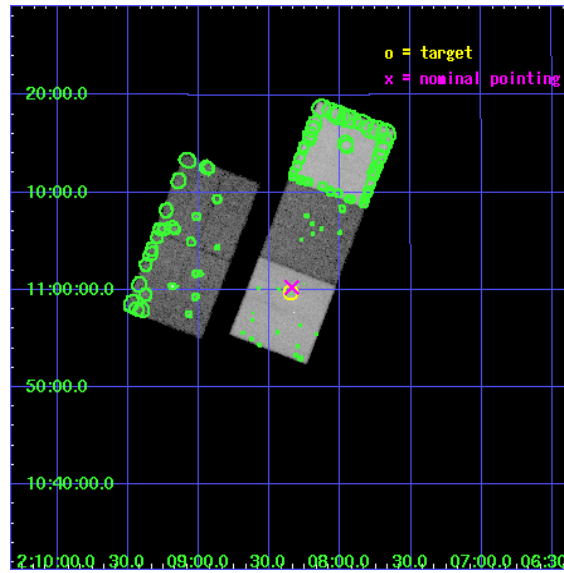
L2 Processing Date : Mar 11 2006

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
3	Point Sources	17
A	Summary	18
A.1	Status	18
A.2	Comments	18

1 Front

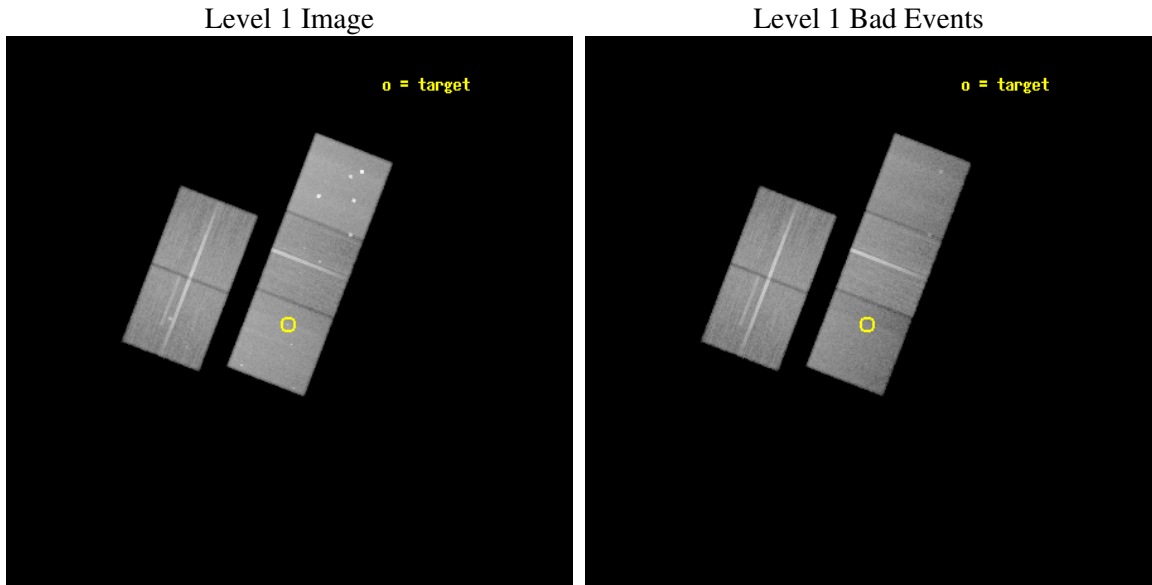
seq_num	701114
obs_id	6313
title	The X-ray Jet of the X-ray faint supermassive nuclear black hole in NGC 821
observer	Dr Giuseppina Fabbiano
object	NGC821
dtcycle	0
cycle	P
ra_targ	32.0875
dec_targ	10.99475
ra_nom	32.085627766297
dec_nom	11.004230492741
roll_nom	111.0569830436
revision	2
ontime	50133.199903607
livetime	49478.172739342
ontime2	50126.917913258
ontime3	50120.636112243
ontime5	50133.199903607
ontime6	50133.199903607
ontime7	50133.199903607
l2events	424696



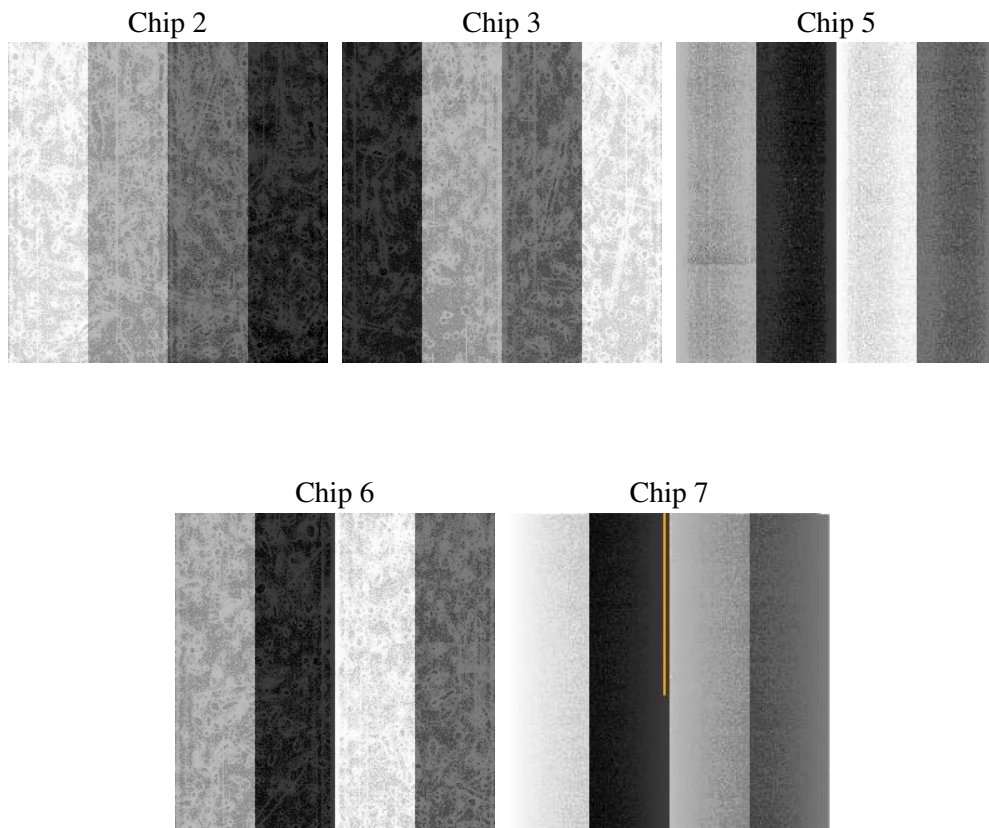
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-03-11T17:43:32
revision	2

sched_exp_time	50000.000000
ontime	50394.243762076
ontime2	50387.961771727
ontime3	50381.679970711
ontime5	50394.243762076
ontime6	50394.243762076
ontime7	50394.243762076
l1events	1803593

2.1.4 Events

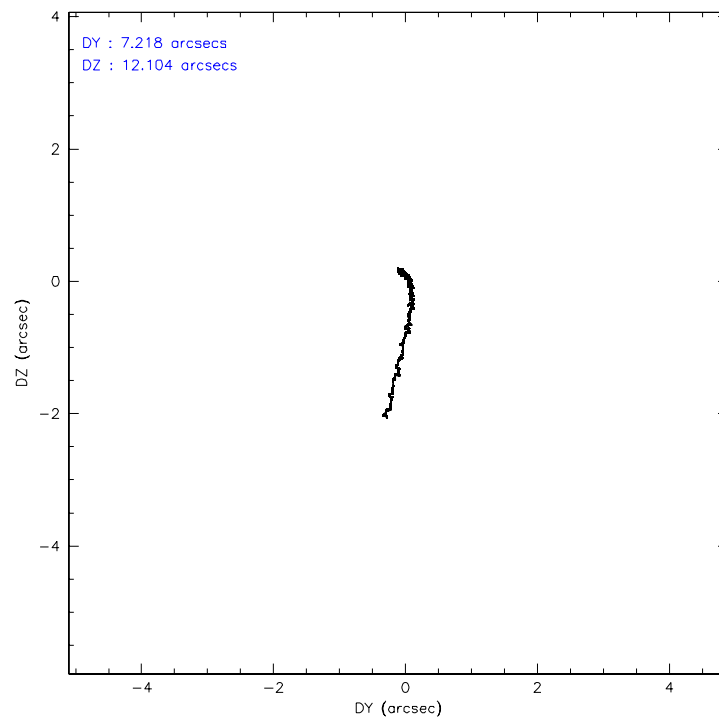
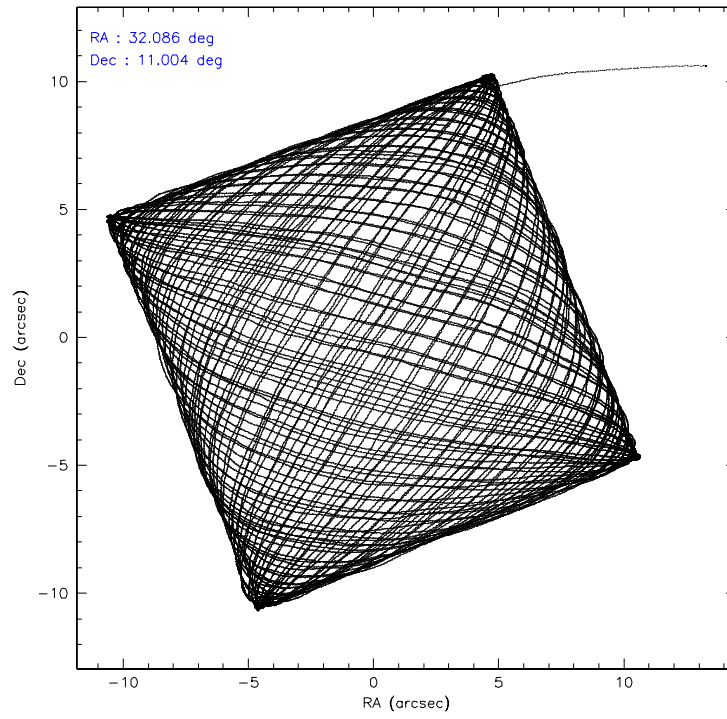
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	333370	320981	455599	331407	362236
rejected events	301912	289882	232899	298242	210760
rejected %	90%	90%	51%	89%	58%

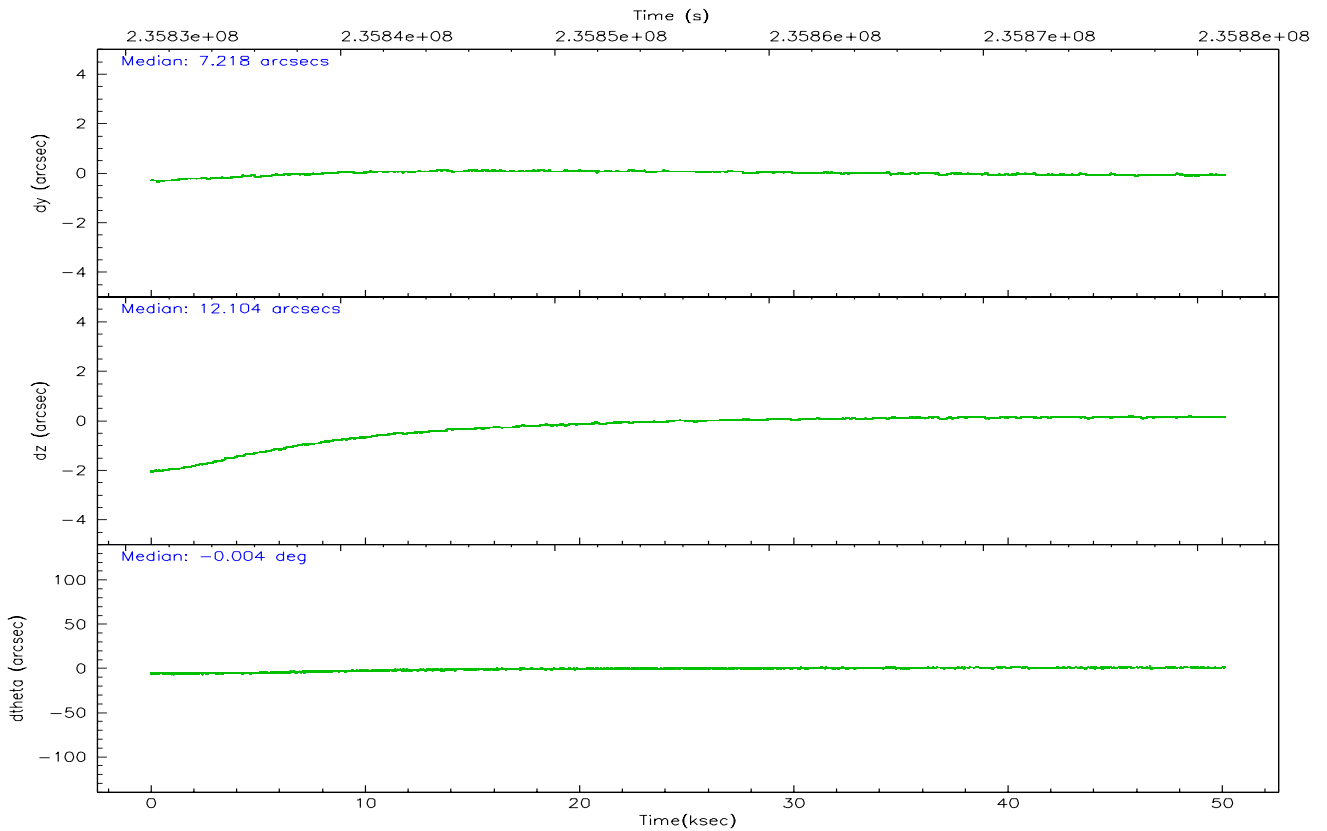
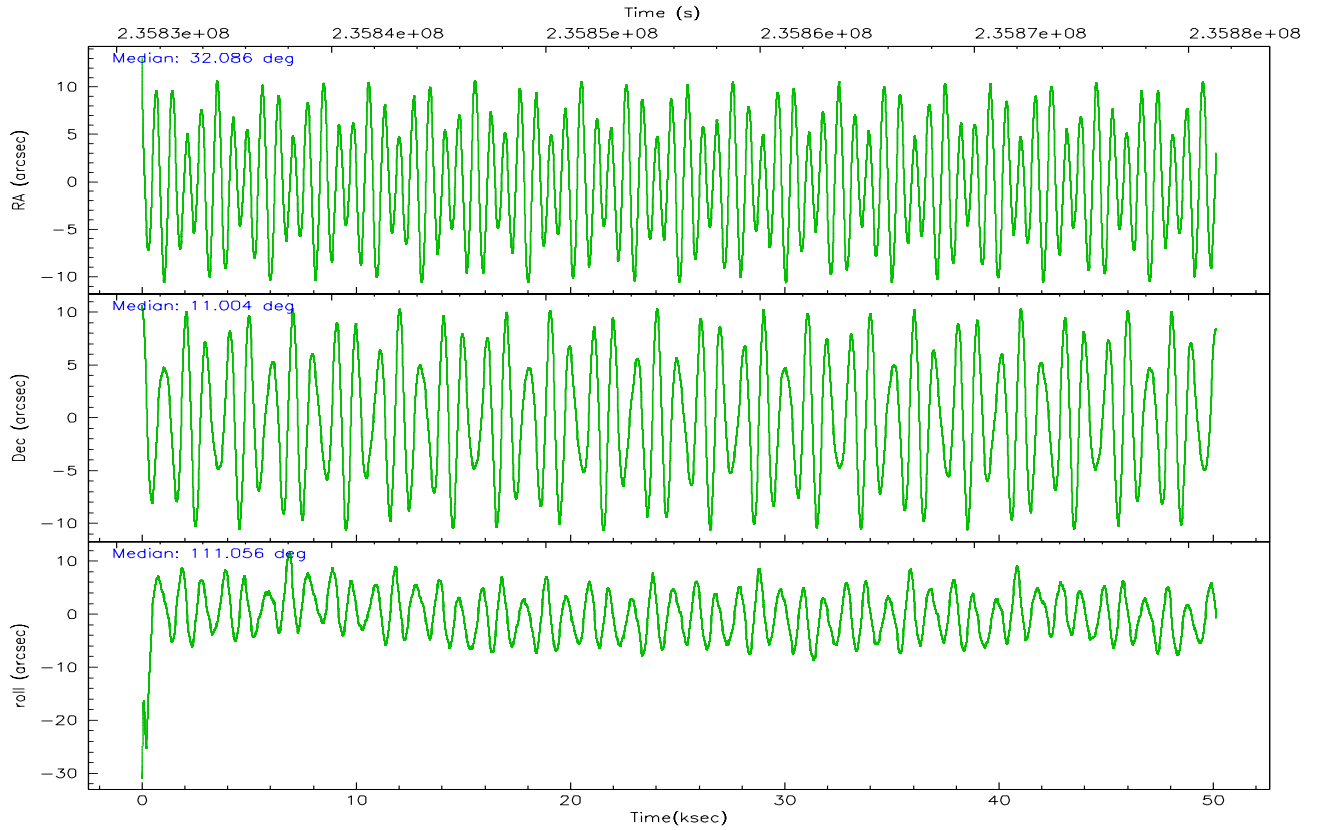
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	11381	11564	24292	11671	9160
	3%	3%	5%	3%	2%
grade 1 events	164	167	884	153	219
	0%	0%	0%	0%	0%
grade 2 events	7350	6531	69353	7190	37387
	2%	2%	15%	2%	10%
grade 3 events	3484	3566	5617	3811	8945
	1%	1%	1%	1%	2%
grade 4 events	3513	3508	5424	3597	8592
	1%	1%	1%	1%	2%
grade 5 events	10570	12786	24408	13093	27431
	3%	3%	5%	3%	7%
grade 6 events	5902	6094	119188	7076	88144
	1%	1%	26%	2%	24%
grade 7 events	291006	276765	206433	284816	182358
	87%	86%	45%	85%	50%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	32.107433	32.08562776629716	Alternating exposures requested	N	N
Pointing Dec	10.987414	11.0042304927412	Primary exposure time	0.000000	3.1
Pointing Roll	110.896198	111.0569830436049			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	235831302.184000	235830199.07597			
Observation start date	2005-06-22T12:40:38	2005-06-22T12:23:19			
Observation end time	235881302.184000	235882263.44084			
Observation end date	2005-06-23T02:33:58	2005-06-23T02:51:03			
Read mode	TIMED	TIMED			

2.3 Aspect



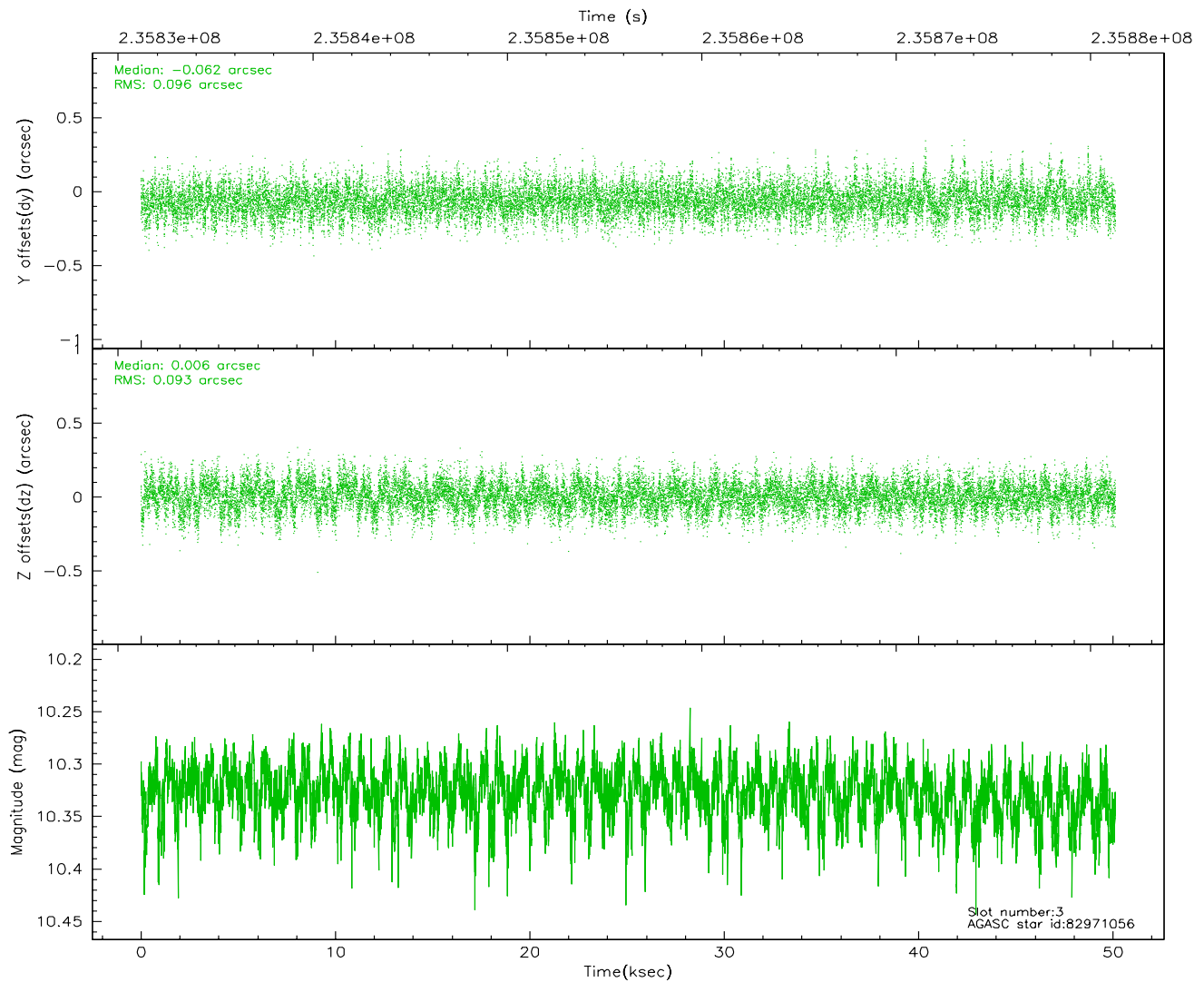
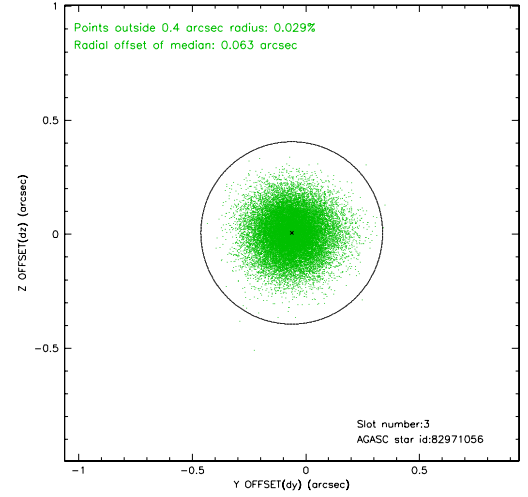
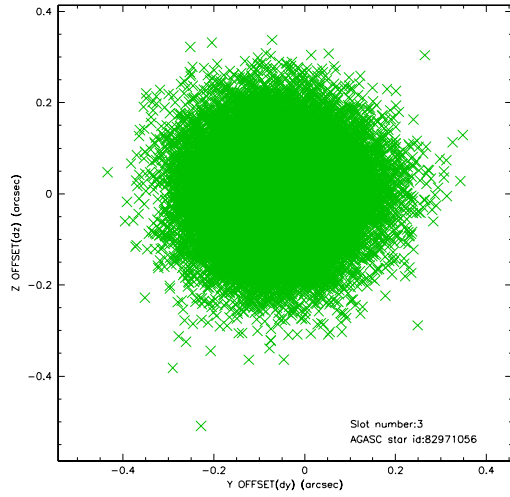


Slot Statistics

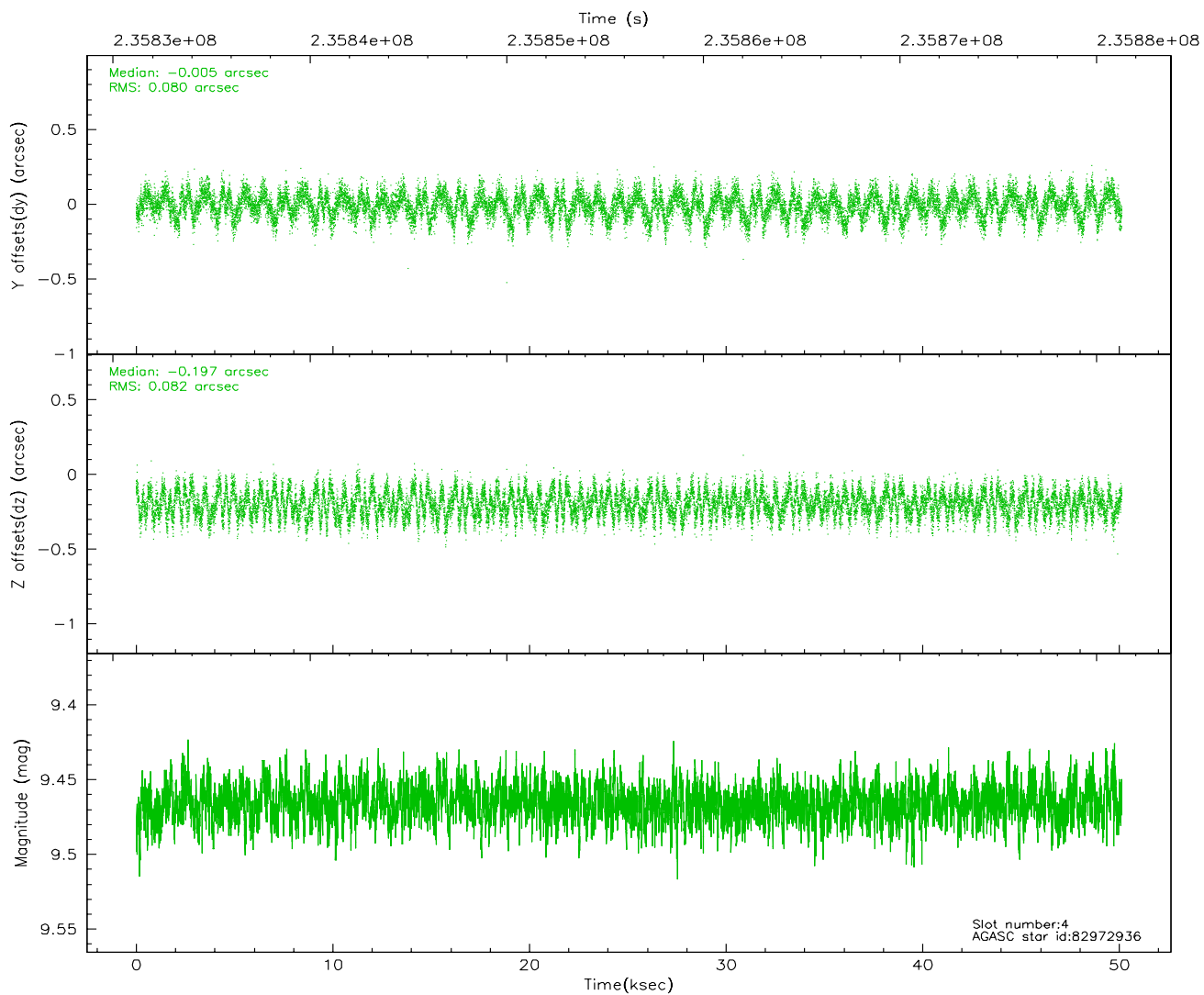
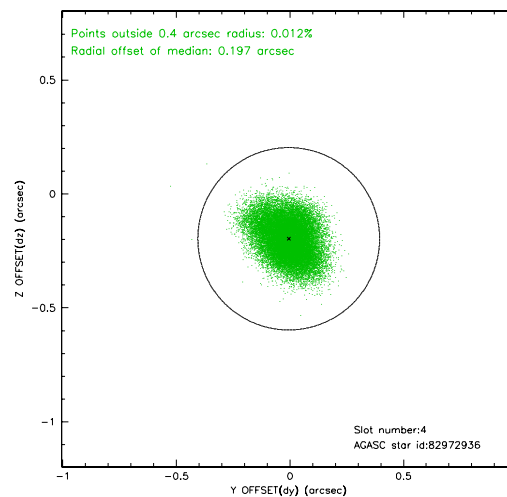
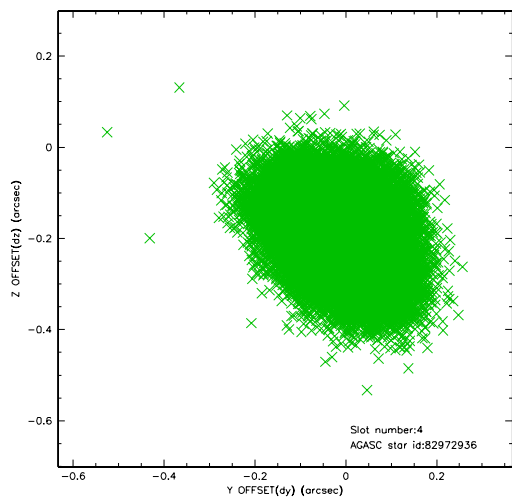
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	12228	0.027	-0.061	0.015	0.048	0.000000	0.000000	936.06	-1728.82
1	FID	ACIS-S-4	7.20	12229	0.016	0.034	0.015	0.029	0.000000	0.000000	2153.48	175.44
2	FID	ACIS-S-5	7.23	12227	-0.069	0.040	0.008	0.028	0.000000	0.000000	-1812.90	169.06
3	GUIDE	82971056	10.33	24435	-0.062	0.006	0.143	0.232	31.381677	11.249277	1797.74	2056.75
4	GUIDE	82972936	9.47	24434	-0.005	-0.197	0.124	0.195	31.880349	11.323150	1415.55	317.66
5	GUIDE	82976088	10.27	24403	0.123	-0.166	0.265	0.430	31.548572	10.635312	-477.00	2298.34
6	GUIDE	82976744	9.50	24443	0.149	0.087	0.110	0.179	32.095784	10.602457	-1279.68	533.08
7	GUIDE	82974960	9.84	24429	-0.231	0.271	0.157	0.254	31.911636	11.621581	2379.12	-168.99

2.4 Star Slots

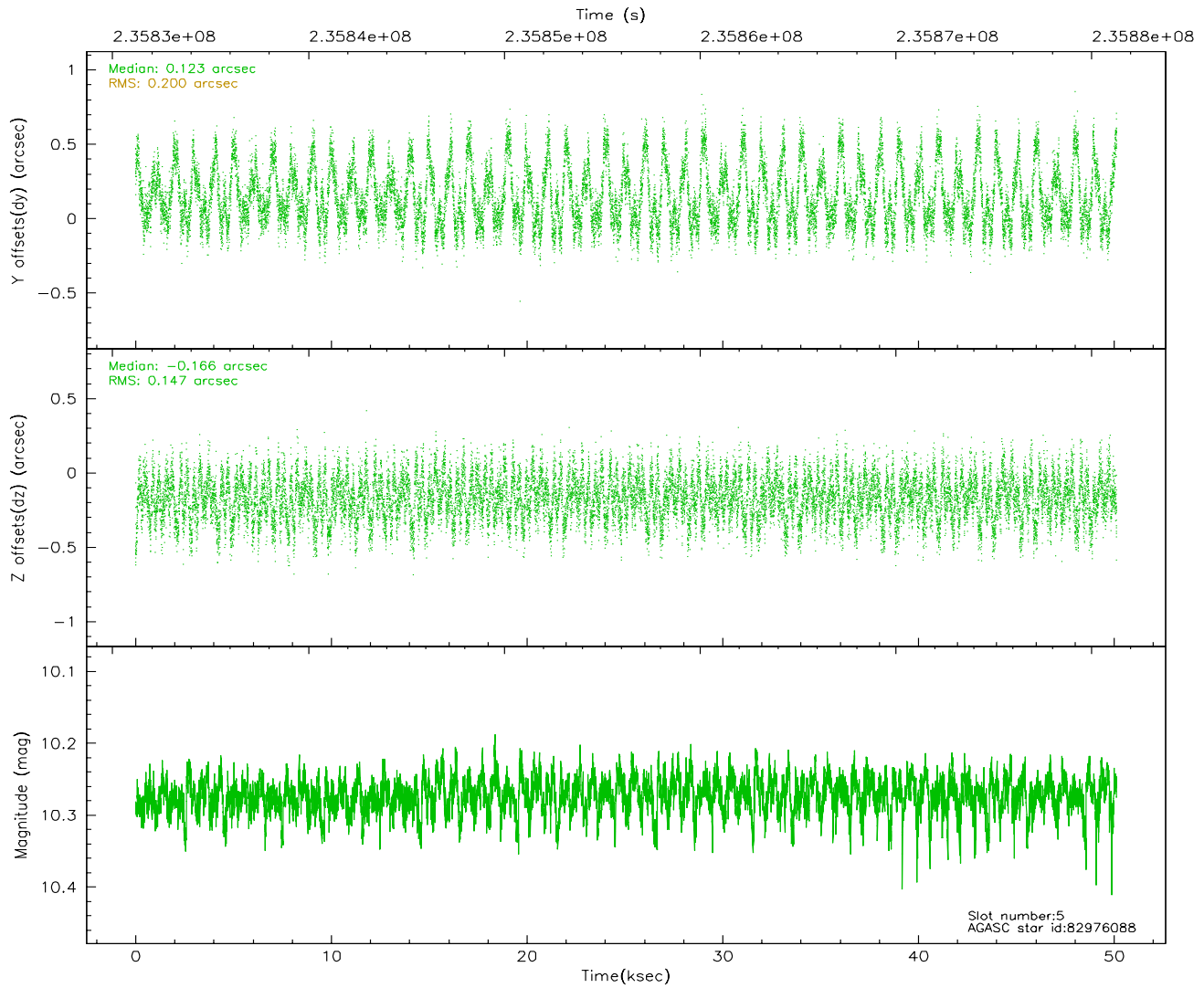
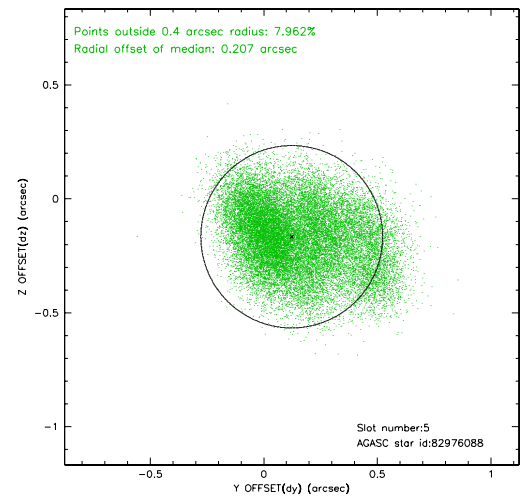
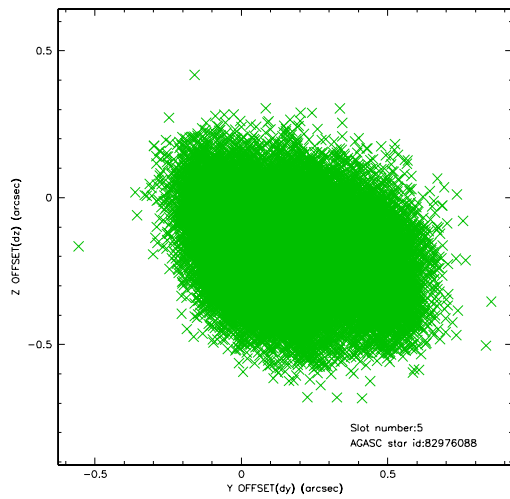
2.4.1 Slot 3



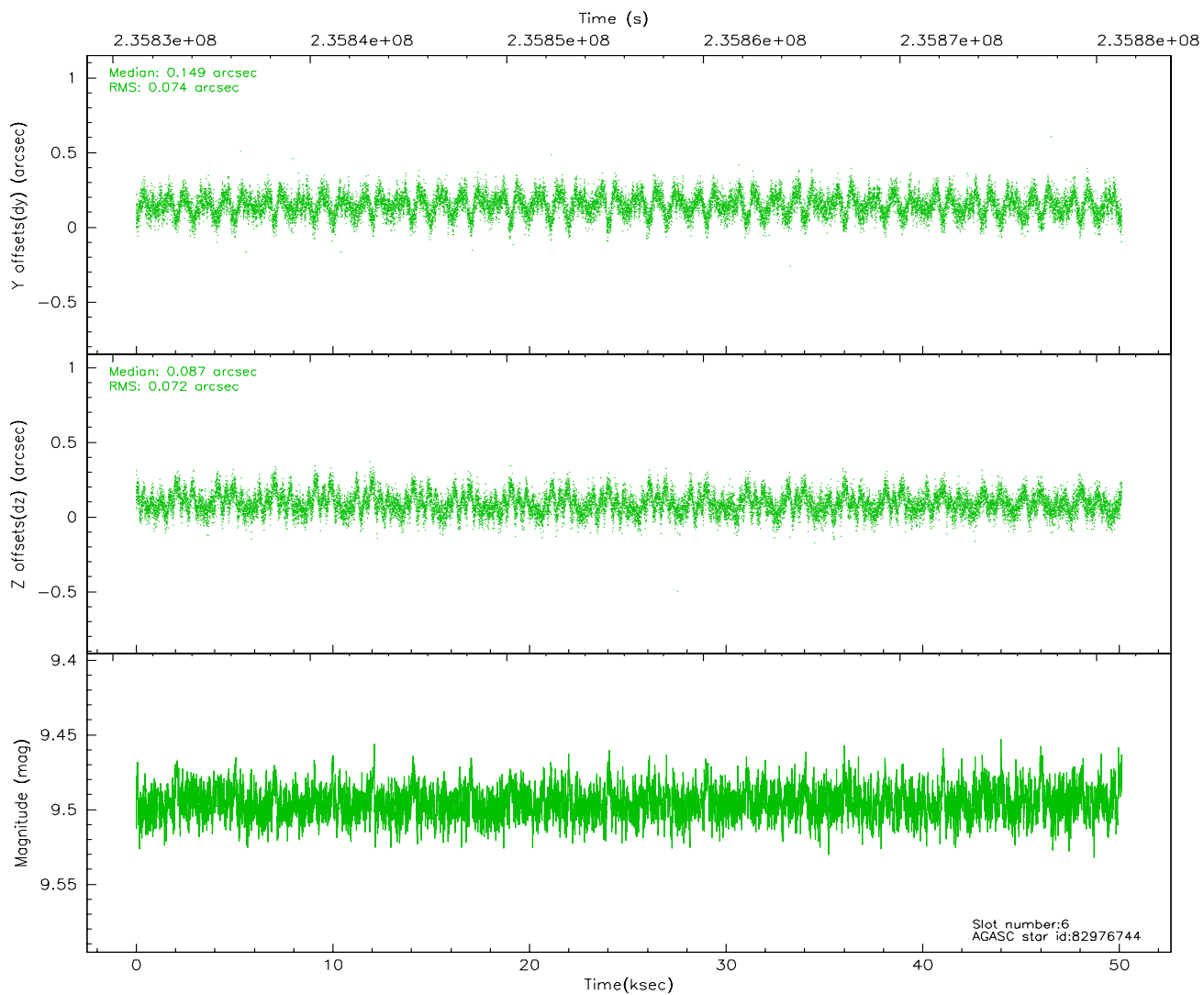
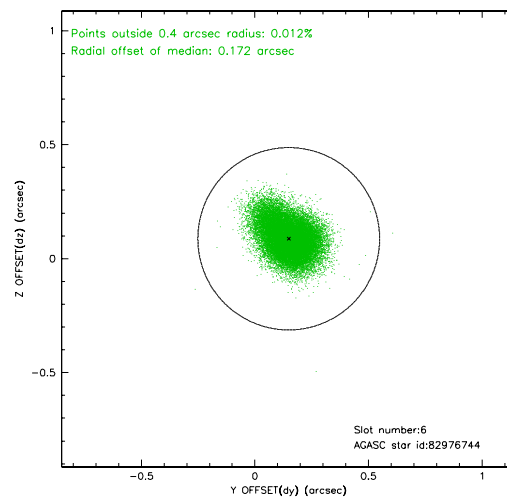
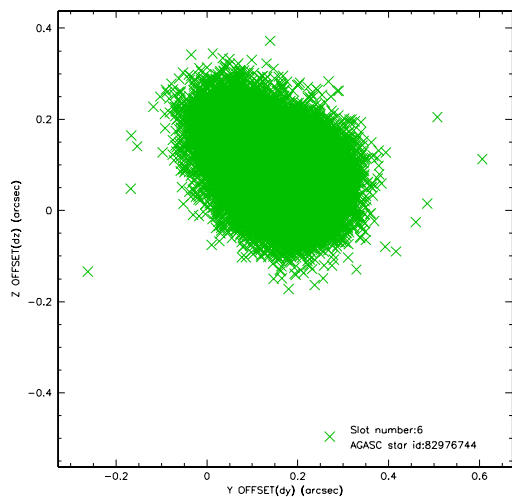
2.4.2 Slot 4



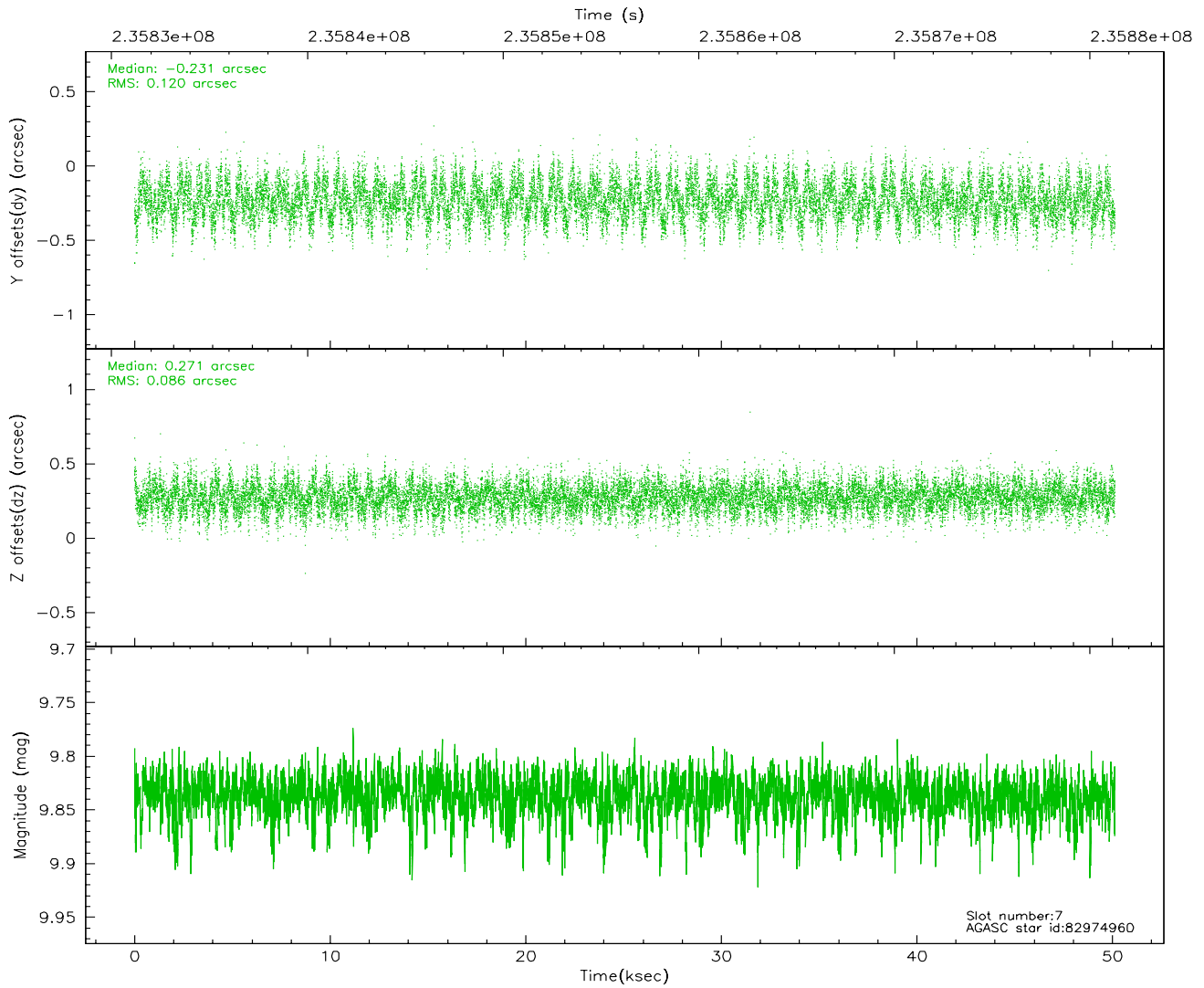
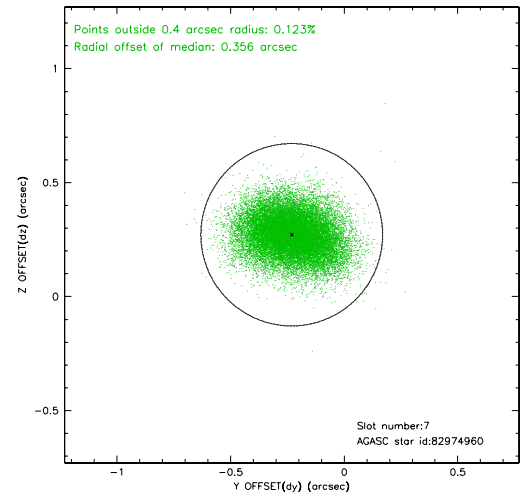
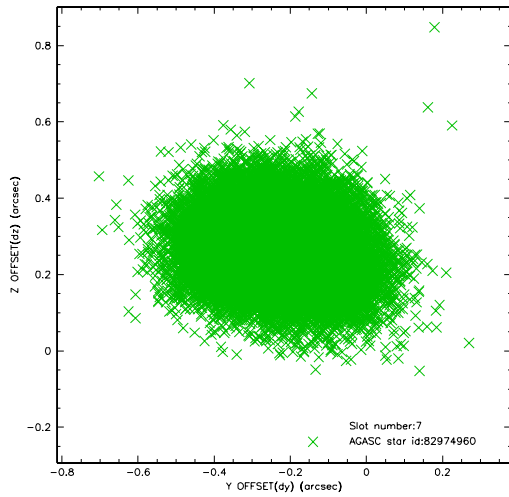
2.4.3 Slot 5



2.4.4 Slot 6

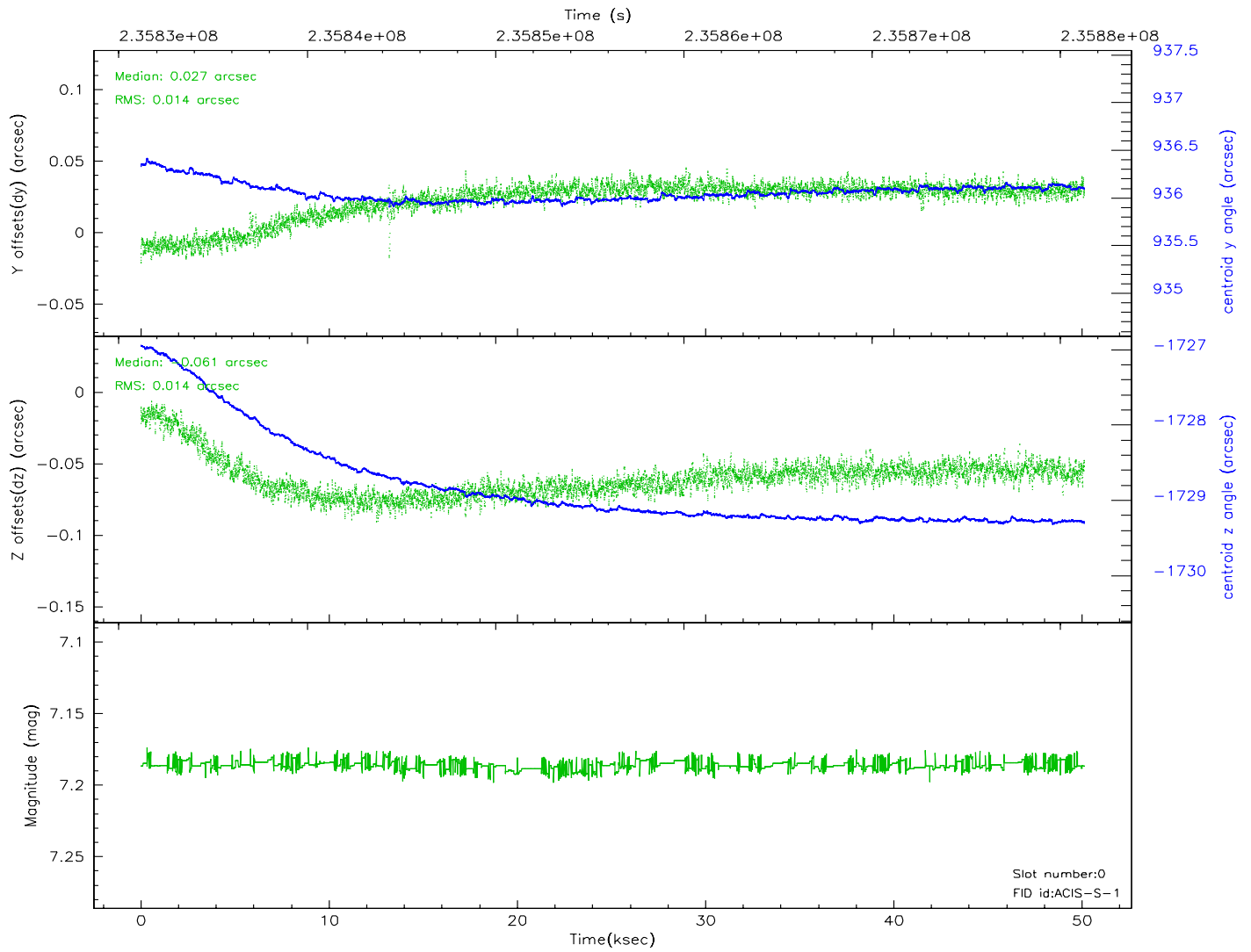
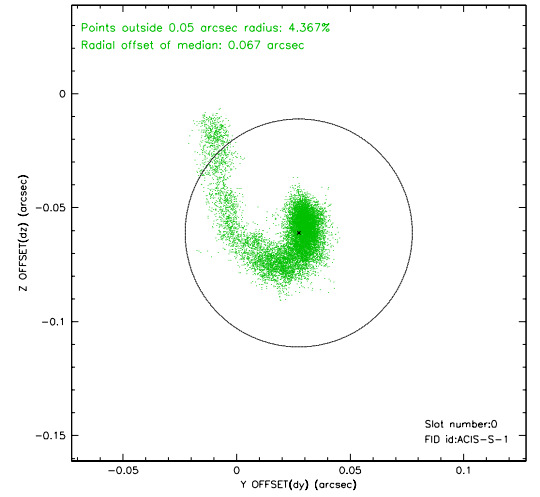
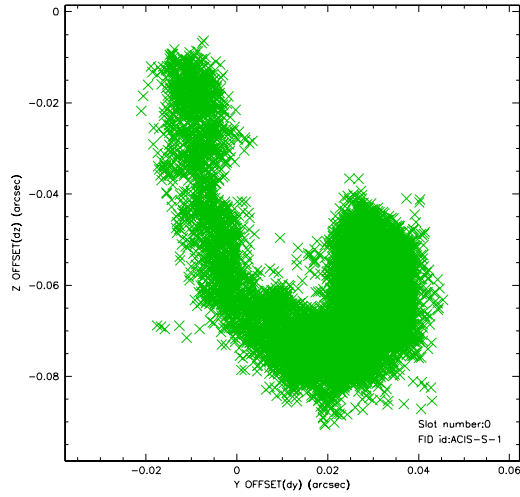


2.4.5 Slot 7

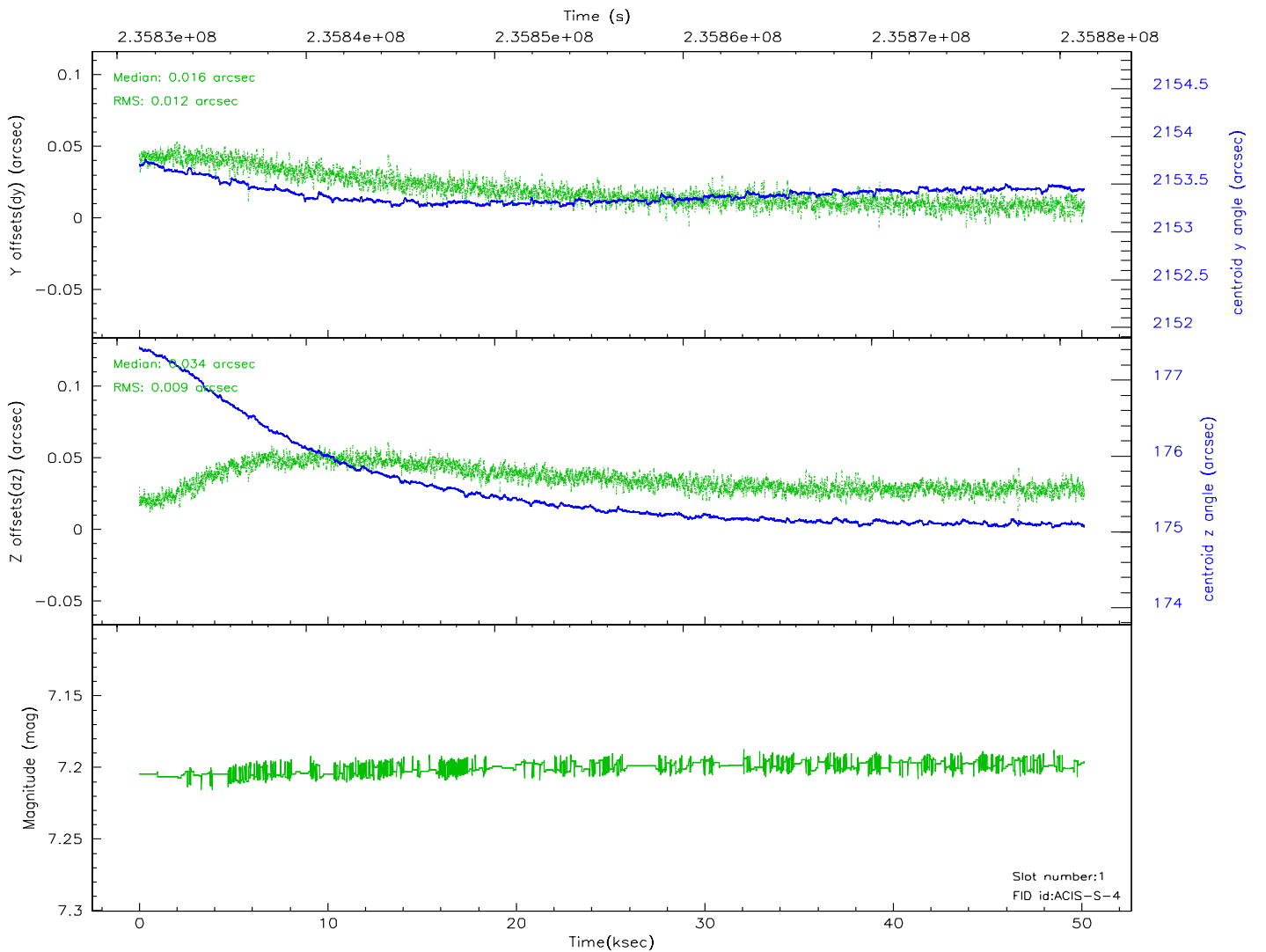
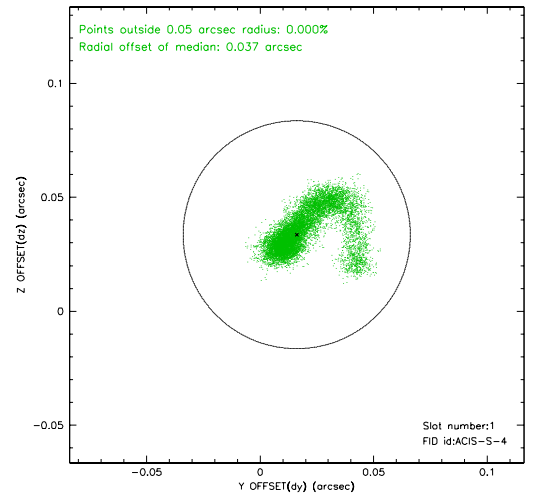
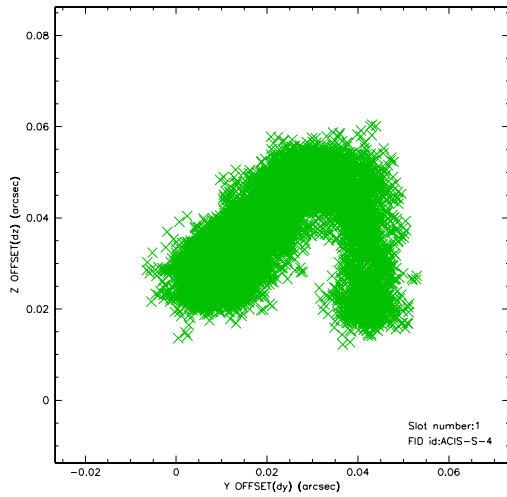


2.5 FID Slots

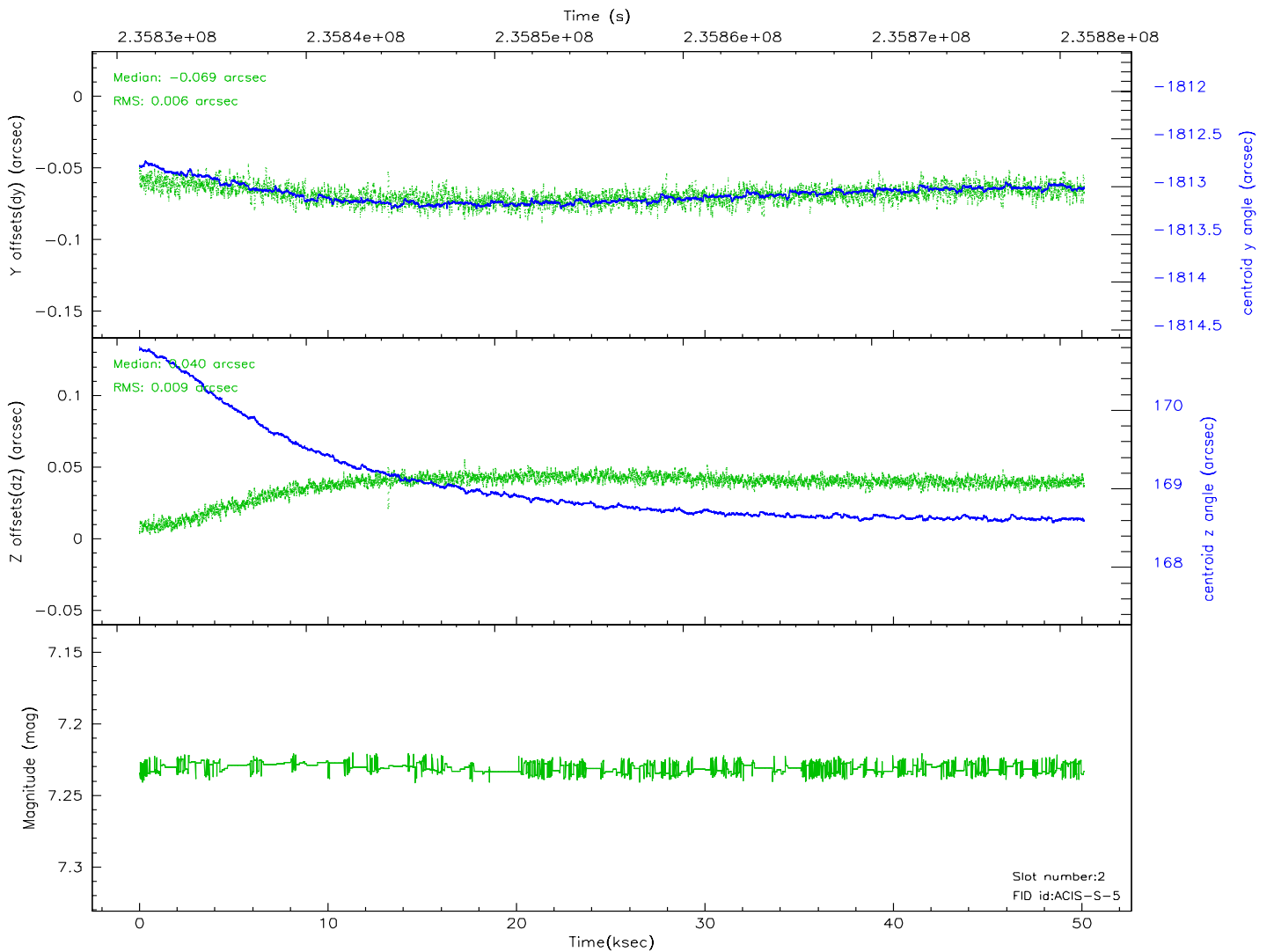
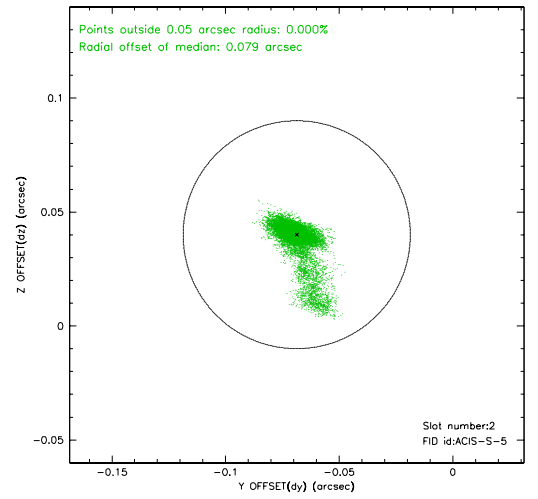
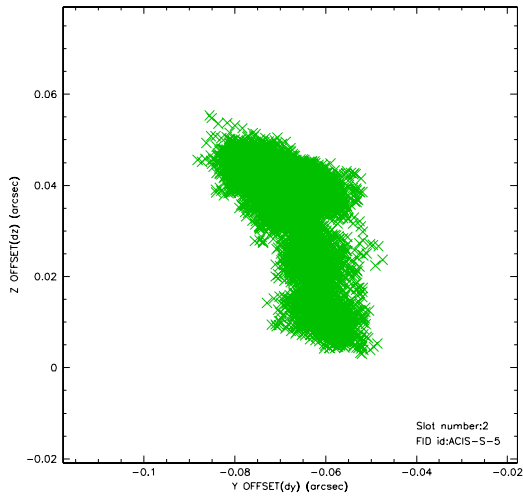
2.5.1 Slot 0



2.5.2 Slot 1

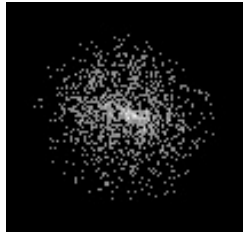


2.5.3 Slot 2

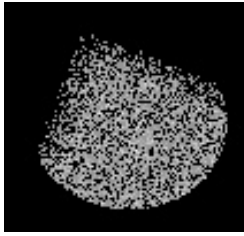


3 Point Sources

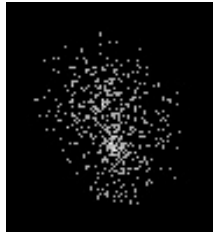
12.40 arcmin



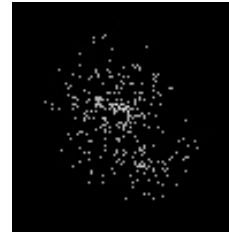
18.64 arcmin



6.73 arcmin



11.02 arcmin



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.03.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	50.13319

A.2 Comments

Comments for Obi 0

Star in slot 5 has an RMS deviation > 0.200000 arcsec

This does not exceed spec and is not expected to affect the aspect solution. First 6 ksec has large fid light displacement - probably due to thermal settling.