V&V Reference Report
L2 ASCDS Version : 7.6.8

Observation 4306 - L2 Version 3
### Chandra X-Ray Center

L2 Processing Date : Nov 21 2007

# Contents

1 Front

seq_num	290266
obs_id	4306
title	AO4 CALIBRATION OBSERVATIONS TO MONITOR SPATIAL VARIATIONS IN THE HRC-I GAIN
observer	Dr. CXC Calibration
object	ARLAC
ra_targ	332.17
dec_targ	45.742306
ra_nom	332.08085367167
dec_nom	45.736962442851
roll_nom	4.0155971206864
revision	3
ontime	1181.8250496686
livetime	1175.3856762102
l2events	35980

2 OBI

2.1 OBI

2.1.1 Images
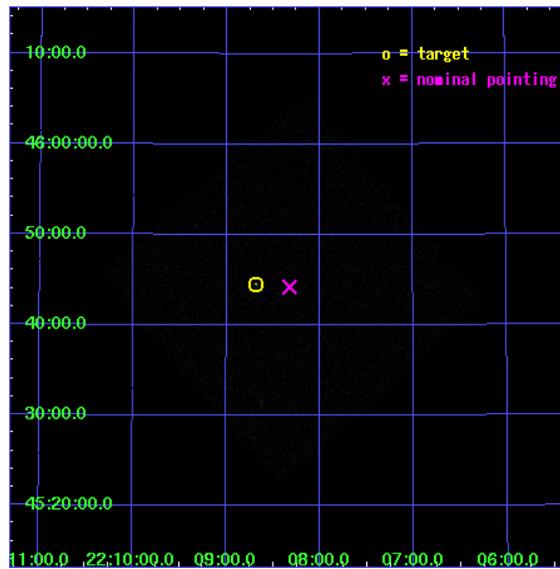
Level 1 Image   Level 1 Bad Events
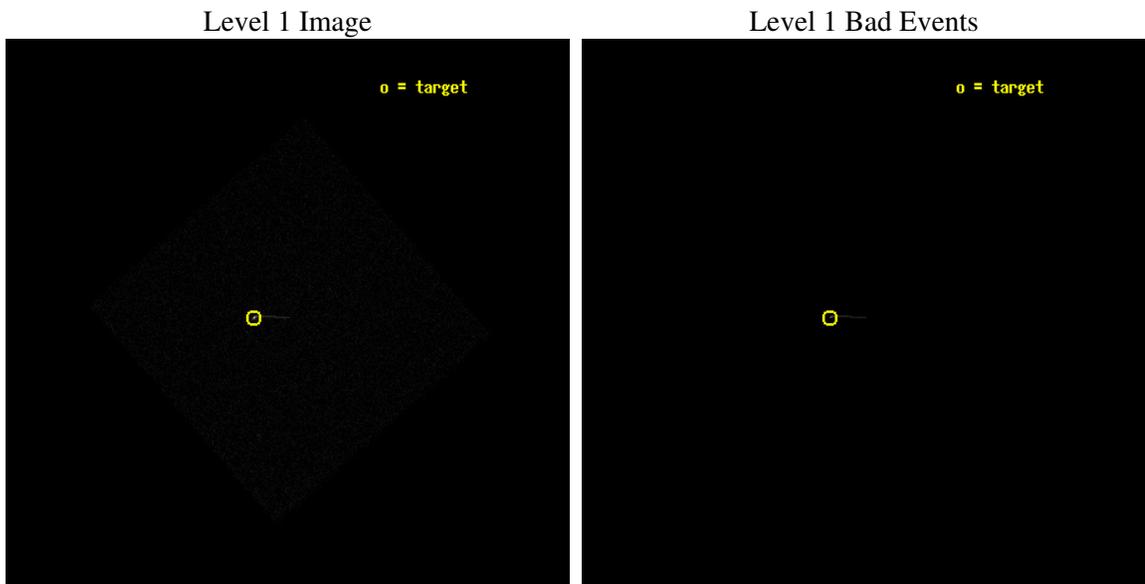
2.1.2   Parameters

obi_num	0	sched_exp_time	1000.000000
ascdsver	7.6.11.2	ontime	1181.8250496686
caldbver	3.4.1	l1events	65728
date	2007-11-22T03:53:37		
revision	3		

2.1.3   Events

Level 1 Events

	segment 0
level 1 events	65728
rejected events	14252
rejected %	21%

2.2 Compared Parameters

| Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
Pointing RA	332.048711	332.0808536716723
Pointing Dec	45.720537	45.73696244285135
Pointing Roll	4.134027	4.015597120686418
Window start time	161654464.184000	161654464.184000
Window stop time	165369664.184000	165369664.184000
SIM focus pos (mm)	-1.040293	-1.038866356238299
SIM defocus (mm)	0	0.001426264420575141
SIM translation stage pos (mm)	126.985494	126.9854943052878
SIM translation stage offset (mm)	0	-5.413686238853188e-06
Observation start time	162317738.184000	162317361.89556
Observation start date	2003-02-22T16:14:34	2003-02-22T16:09:21
Observation end time	162318738.184000	162318871.72062
Observation end date	2003-02-22T16:31:14	2003-02-22T16:34:31

Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect

RA : 332.081 deg
Dec : 45.737 deg

Dec (arcsec)

RA (arcsec)

DY : 3.077 arcsecs
DZ : 8.597 arcsecs

DZ (arcsec)

DY (arcsec)

7
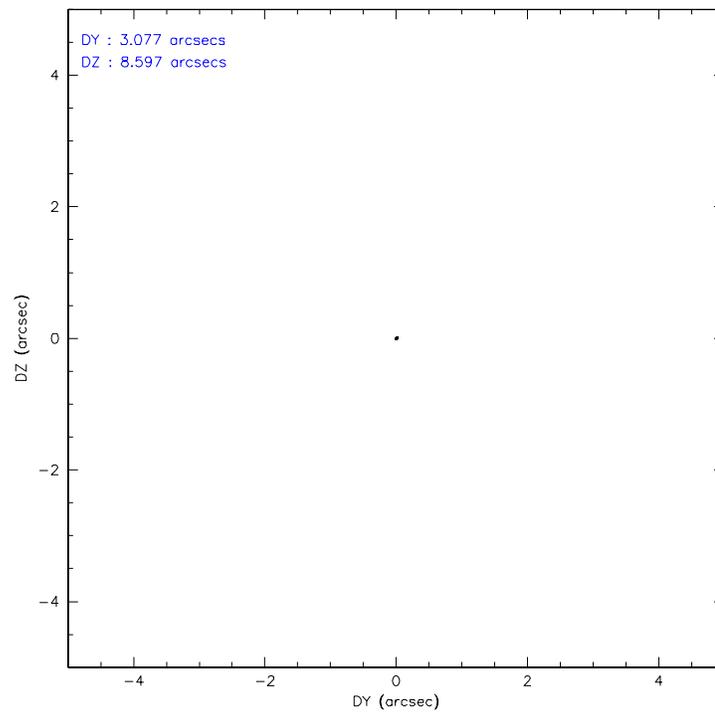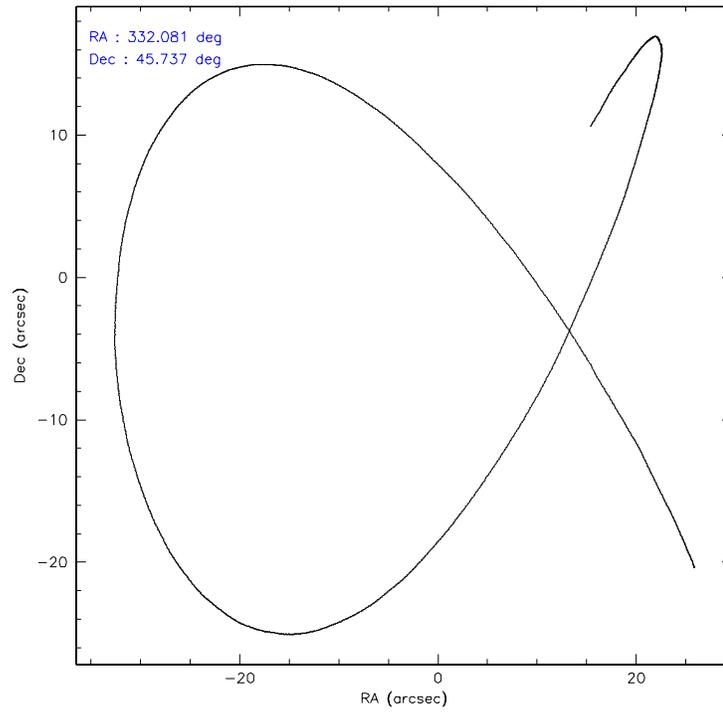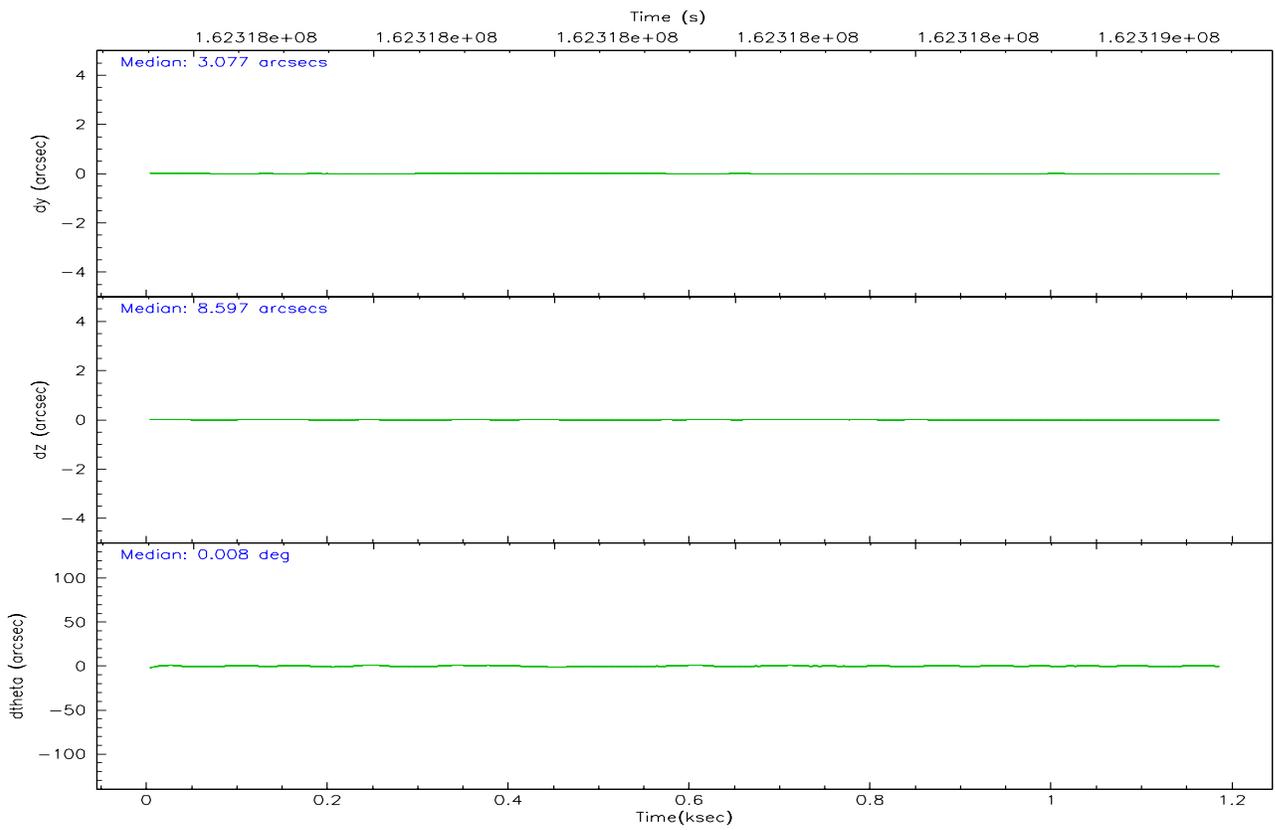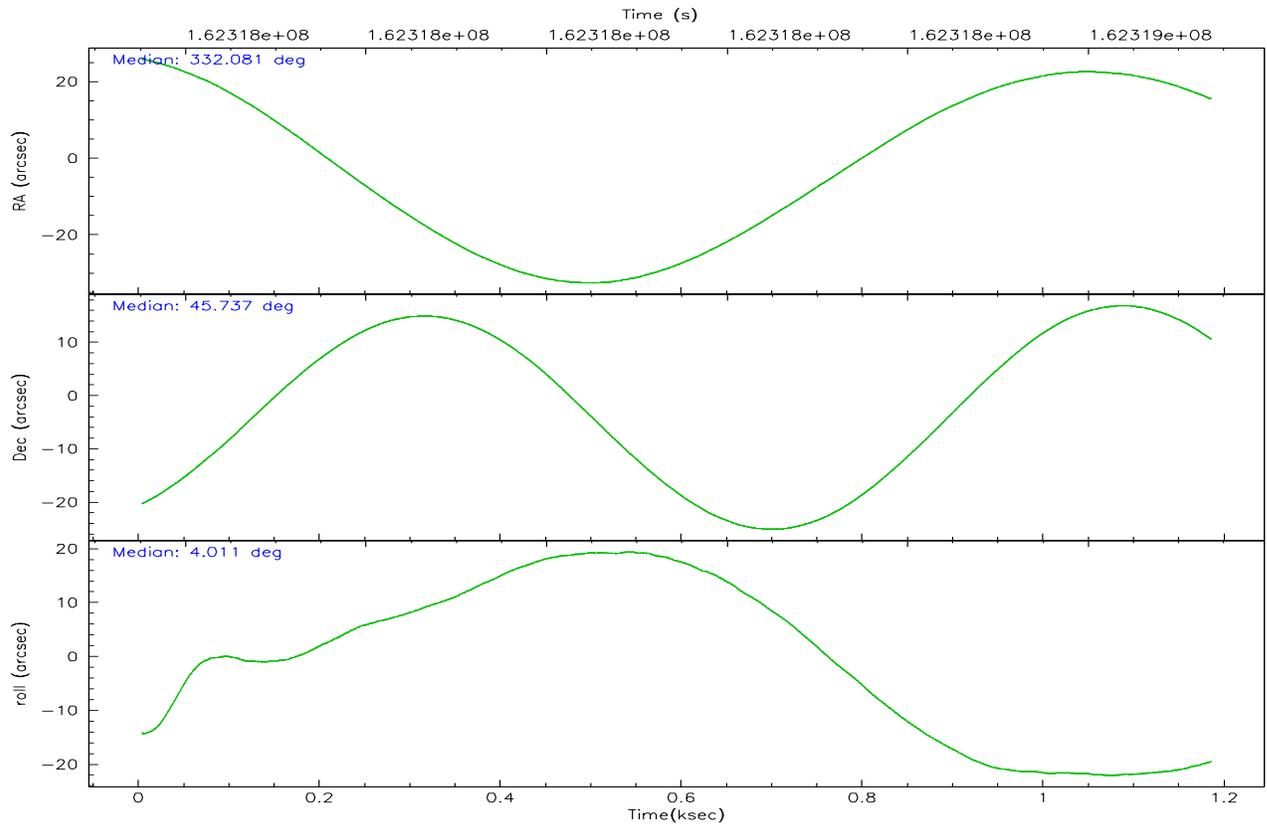
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.97	289	0.025	0.066	0.006	0.010	0.000000	0.000000	-758.52	-1296.47
1	FID	HRC-I-2	7.01	289	0.079	-0.080	0.005	0.009	0.000000	0.000000	851.54	-1302.67
2	FID	HRC-I-3	7.06	289	0.014	-0.076	0.004	0.008	0.000000	0.000000	-1184.08	1003.44
3	GUIDE	472527720	6.98	578	-0.066	-0.060	0.062	0.101	331.460205	45.112509	-1649.74	-2072.72
4	GUIDE	472655704	9.47	578	0.081	-0.014	0.111	0.179	332.167195	45.285228	182.61	-1590.53
5	GUIDE	472659832	9.47	578	0.036	0.076	0.105	0.167	332.780399	46.098139	1919.50	1227.53
6	GUIDE	472533912	9.17	578	0.017	-0.052	0.111	0.180	331.791136	46.368695	-467.92	2373.98
7	GUIDE	472654568	9.43	576	-0.068	0.037	0.130	0.204	332.194449	45.063576	197.37	-2383.63

2.4   Star Slots

2.4.1   Slot 3
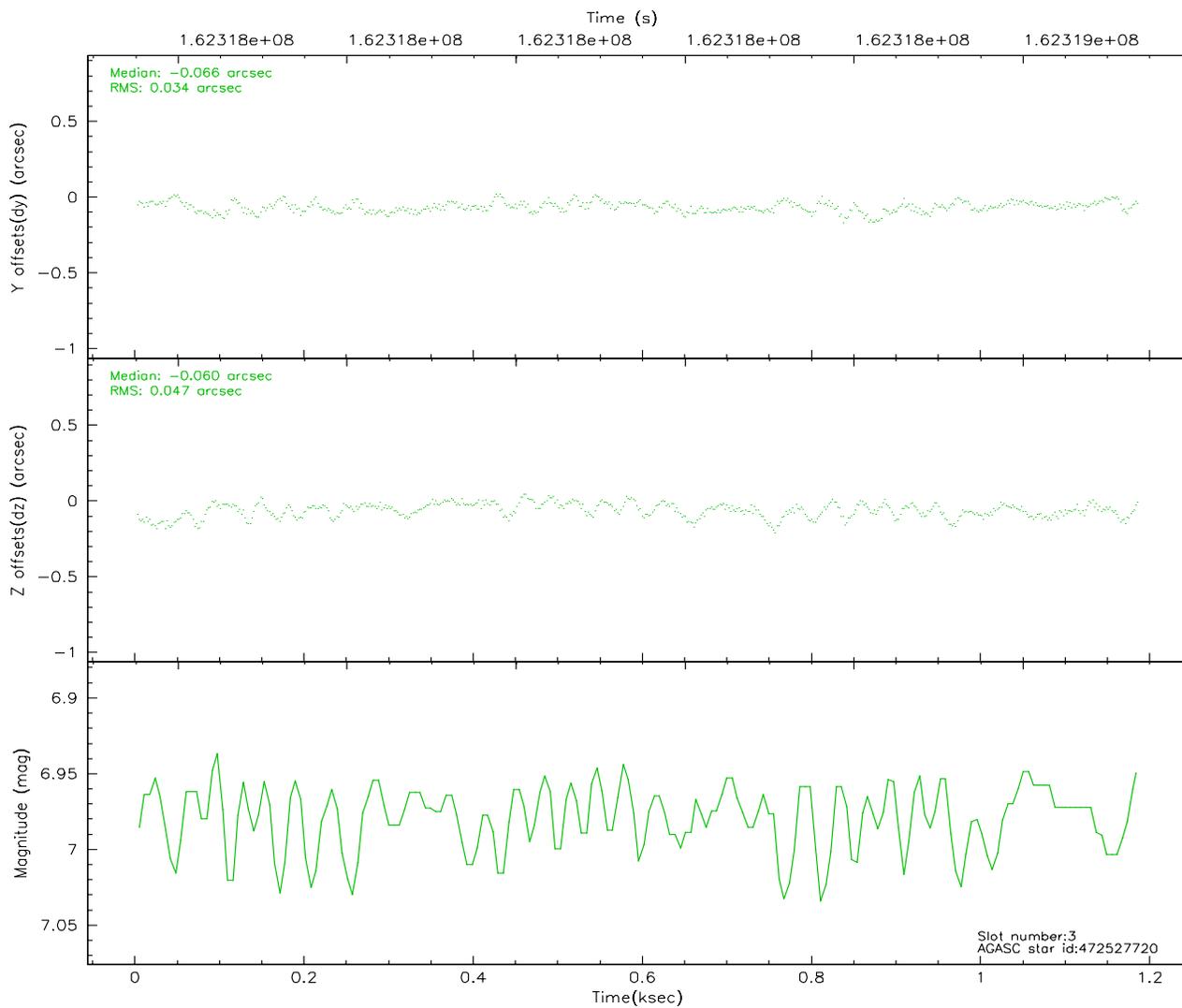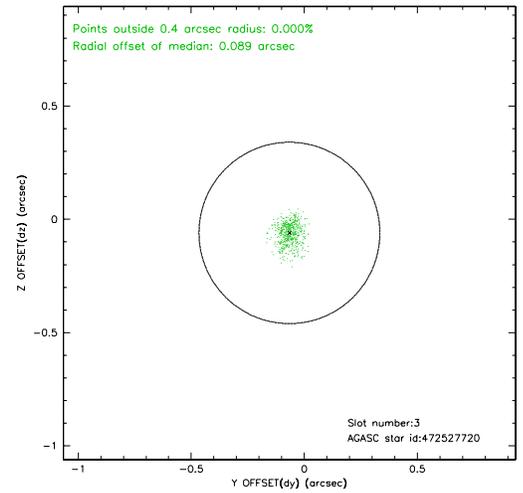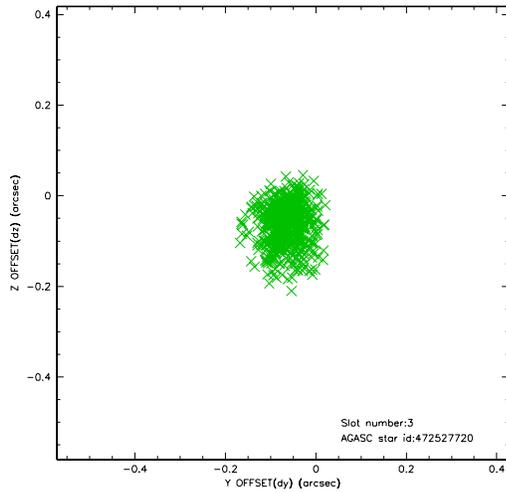
2.4.2 Slot 4
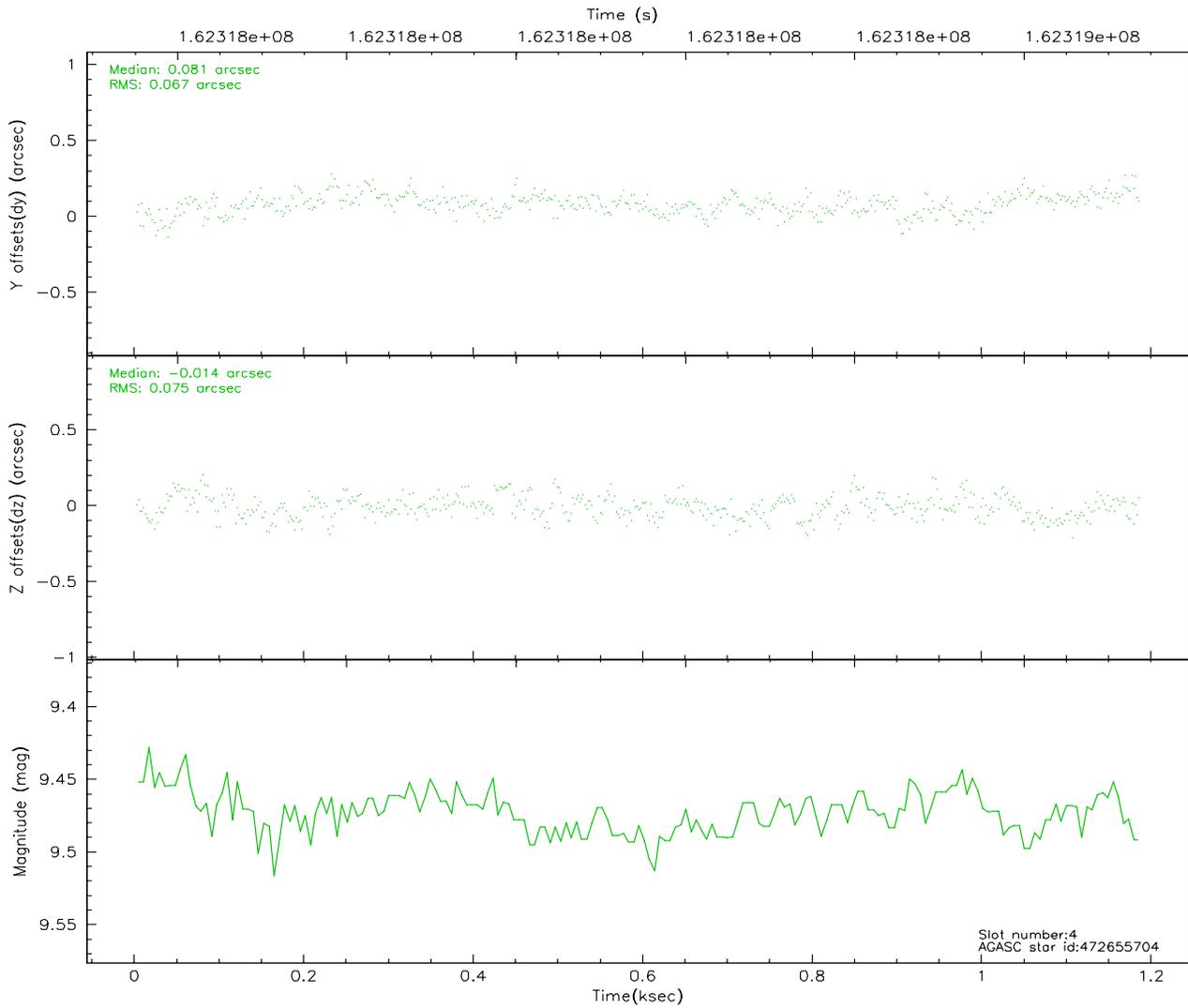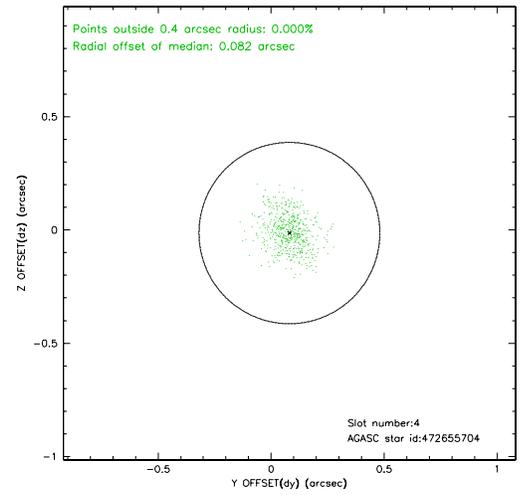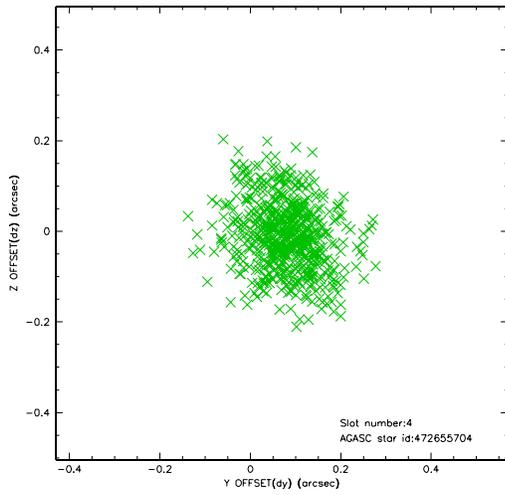
2.4.3   Slot 5
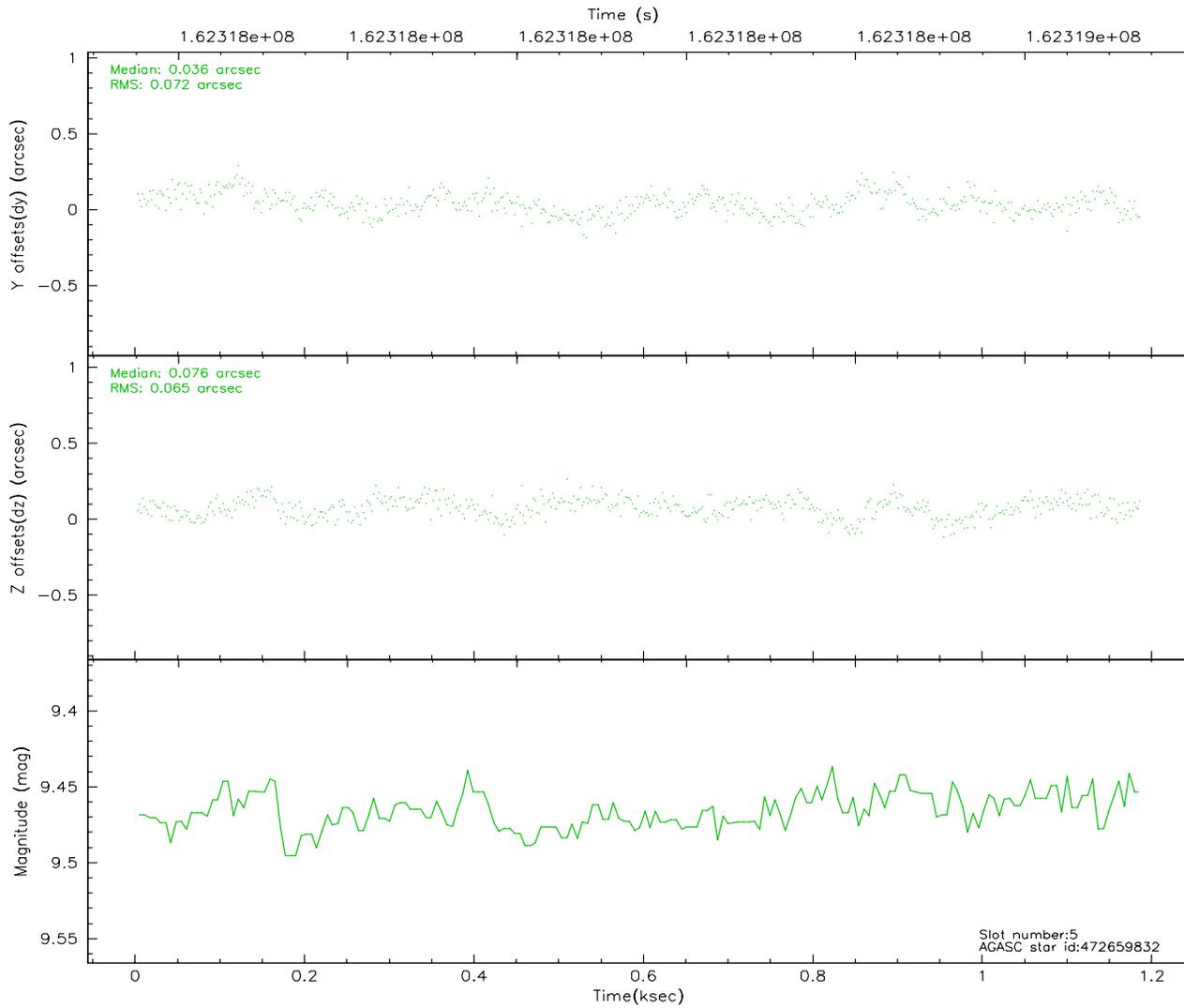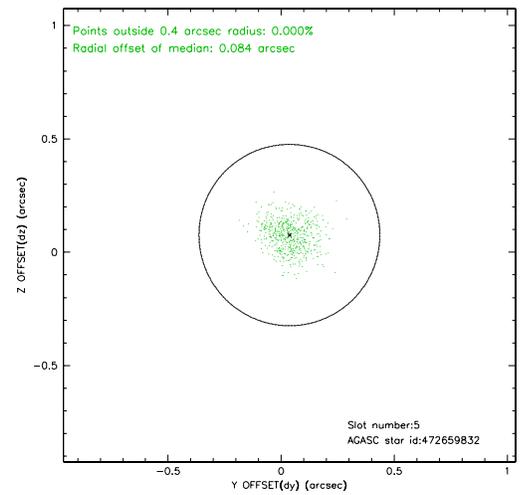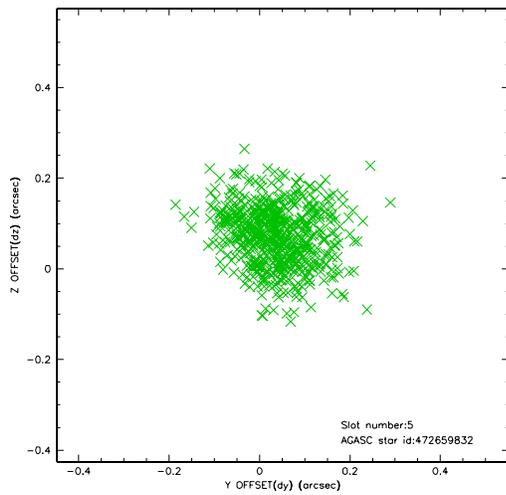
2.4.4   Slot 6
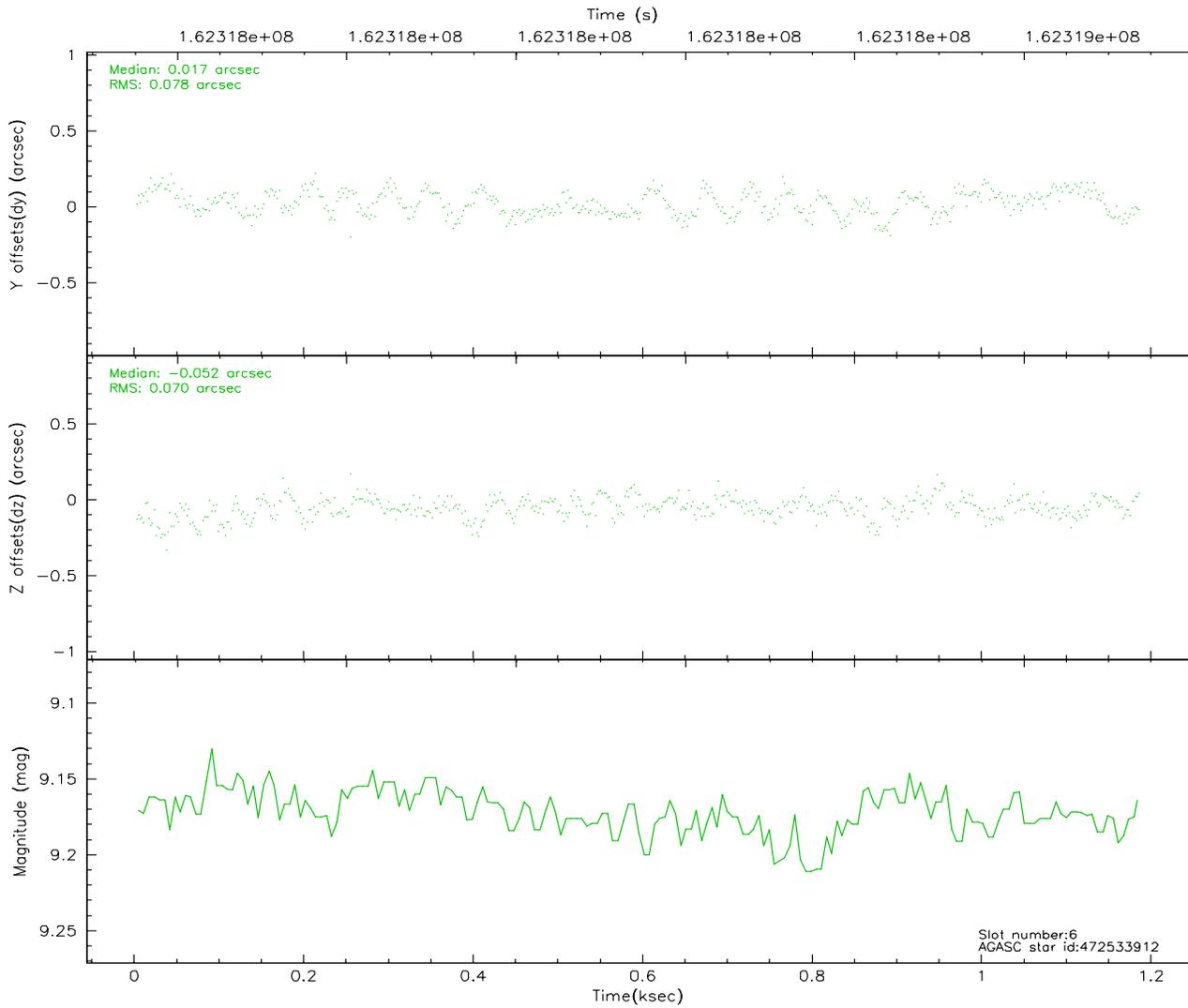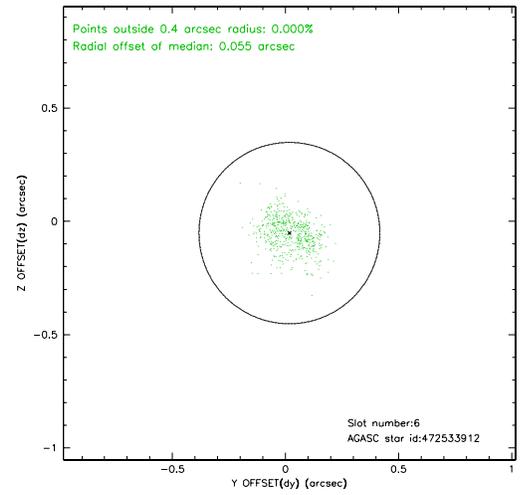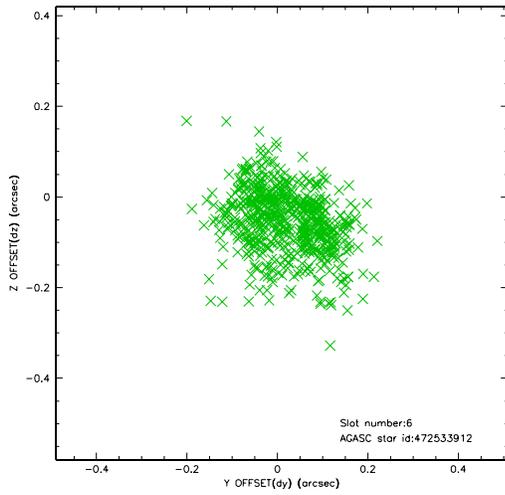
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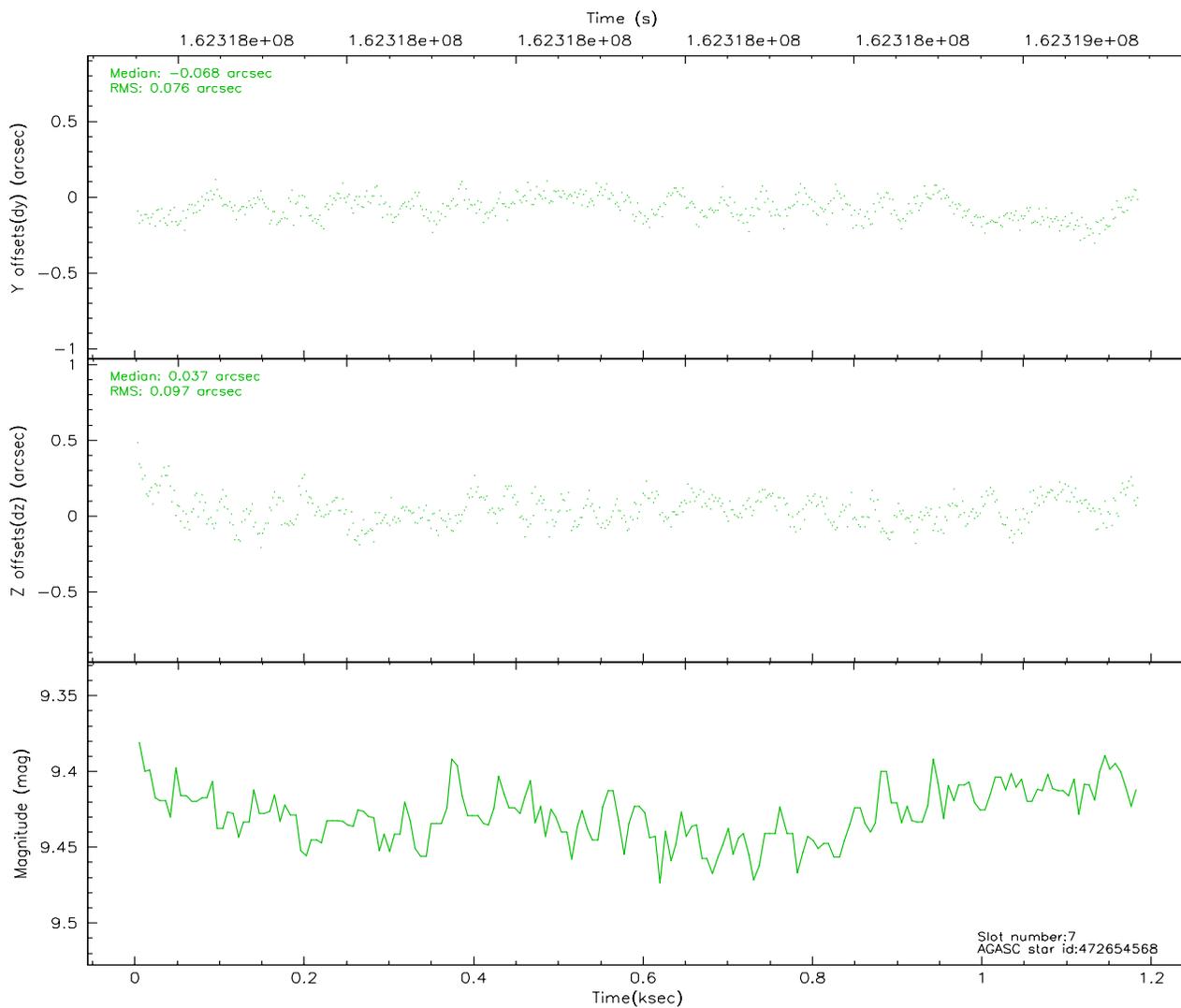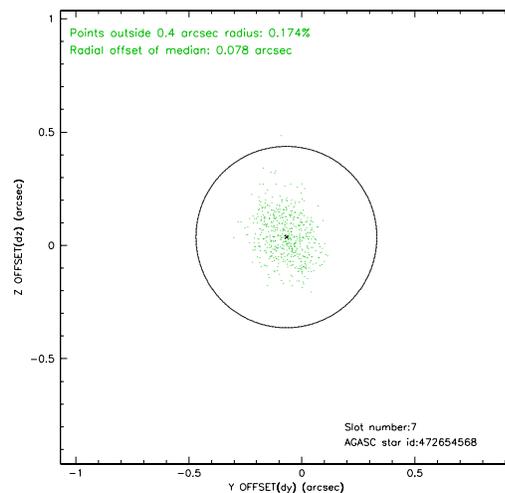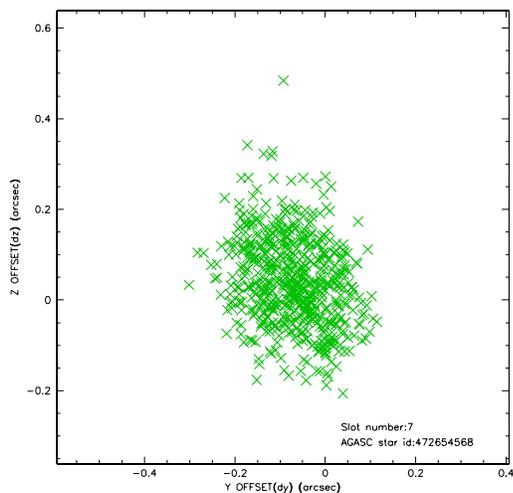
2.5   FID Slots

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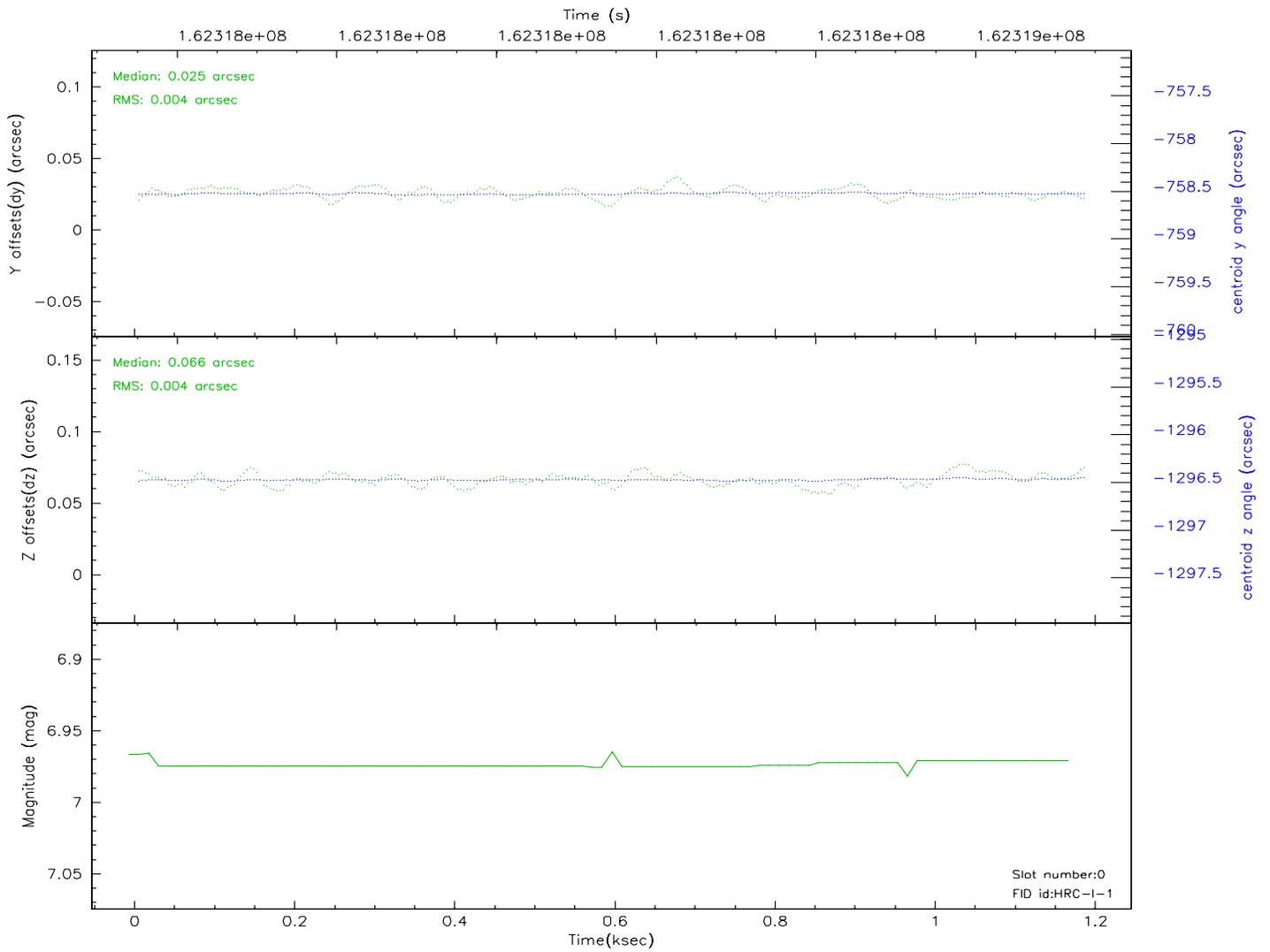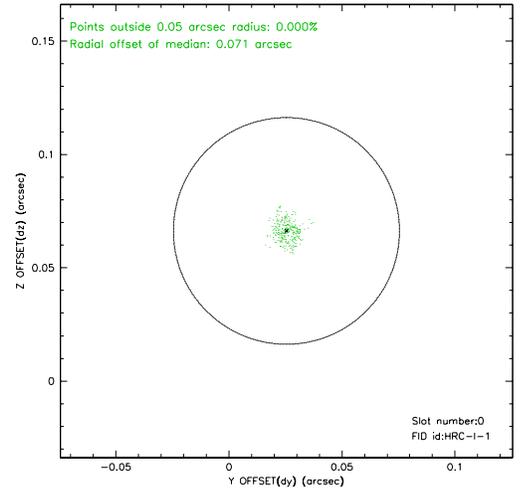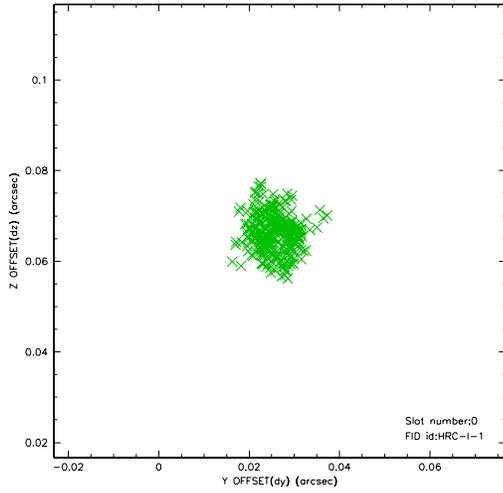
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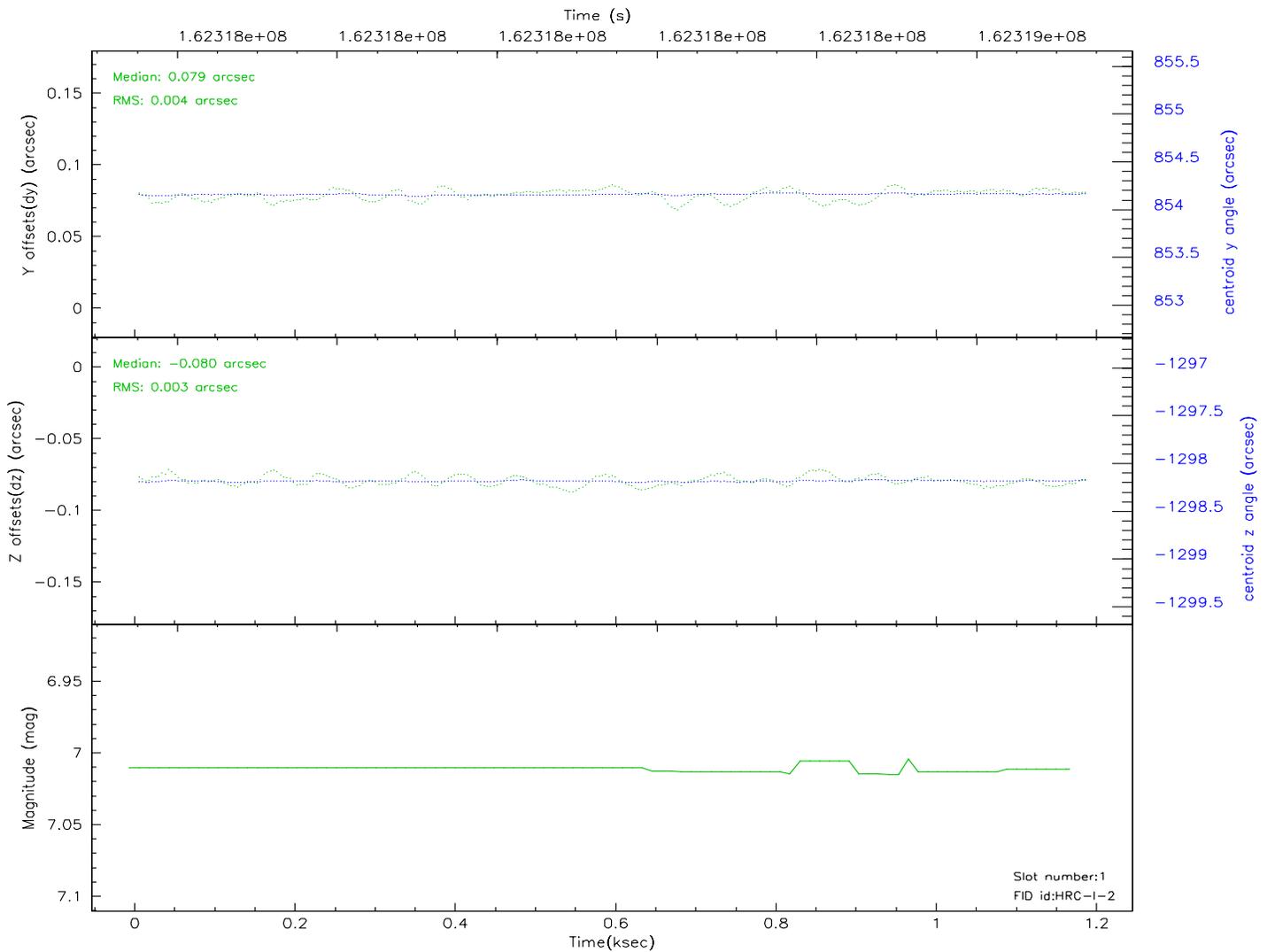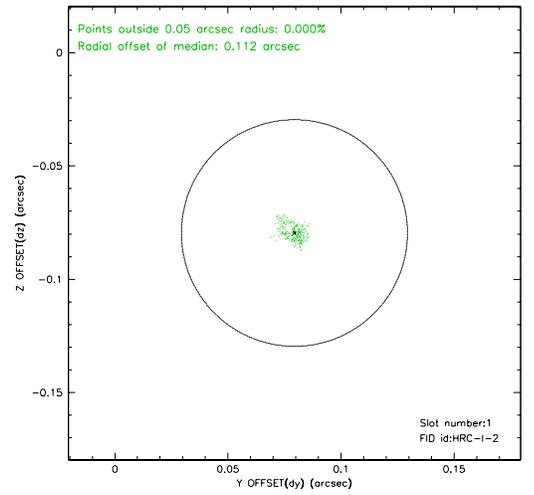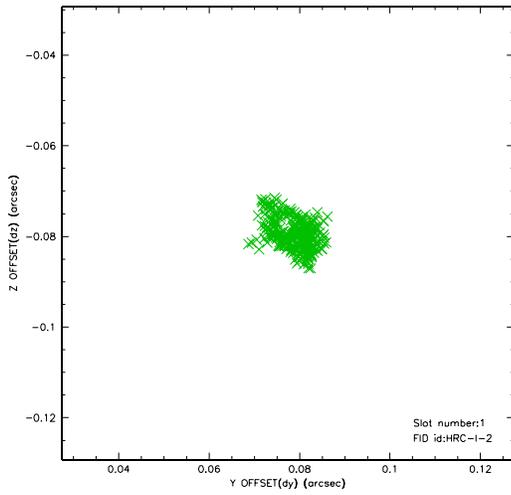
2.5.3 Slot 2
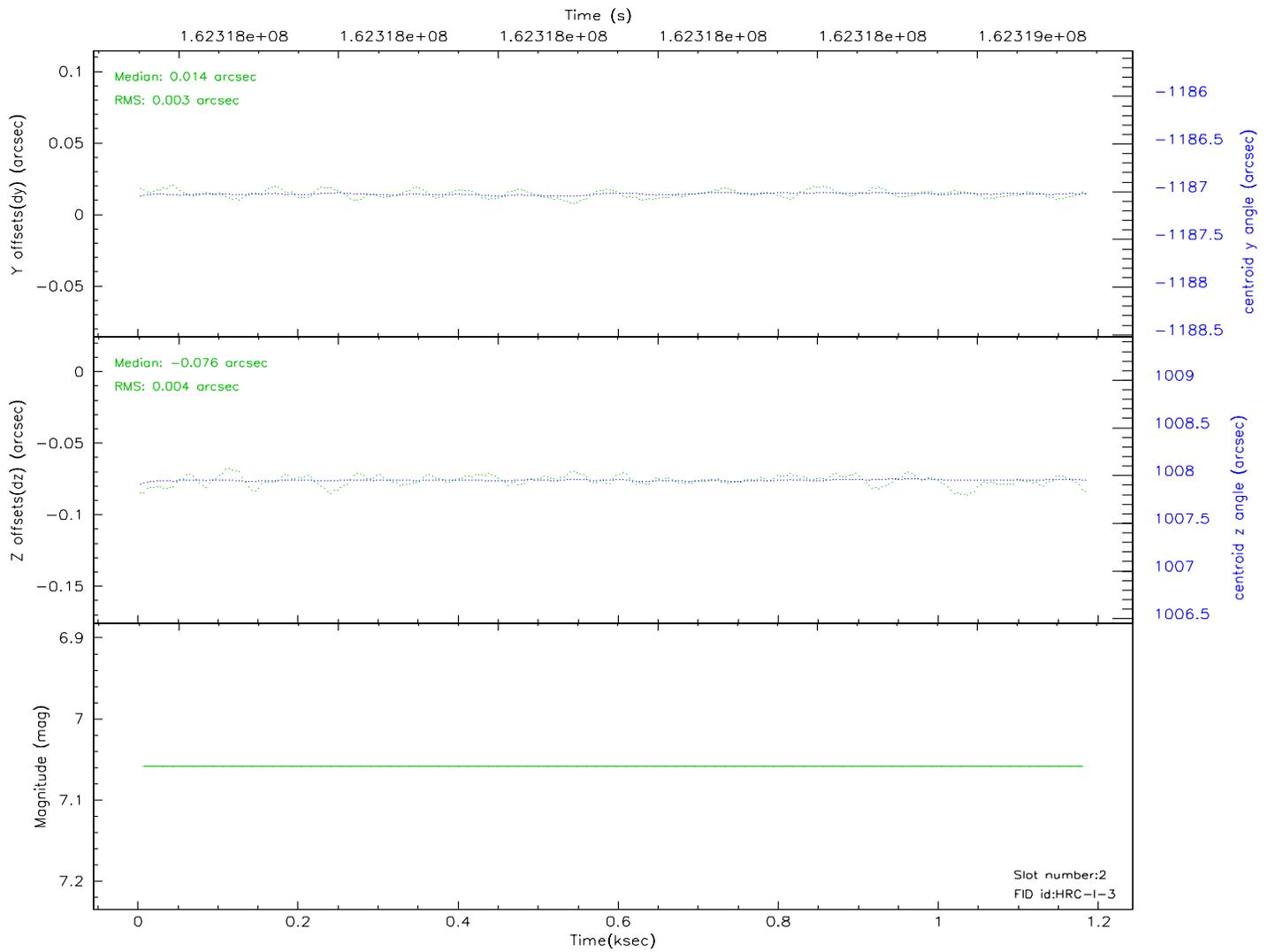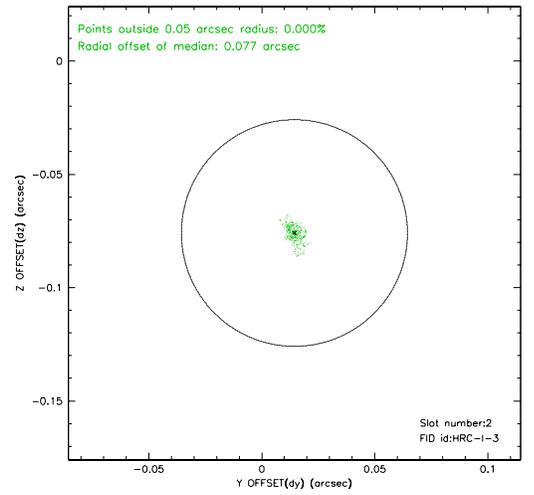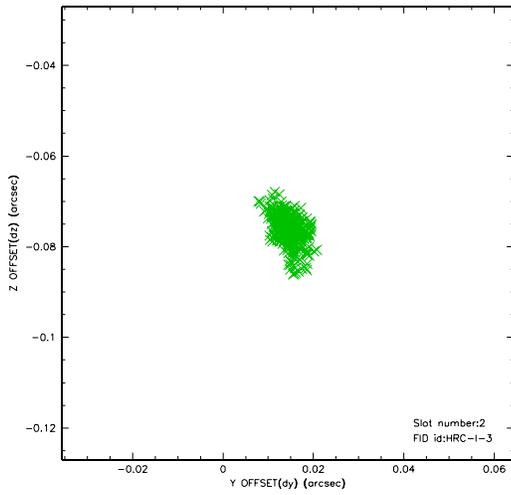
3   Point Sources

3.74 arcmin
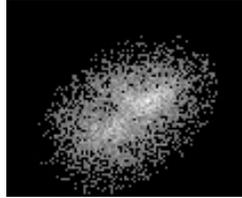
A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.182

A.2 Comments

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Window constraint met.

The current observation has been reprocessed as part of Repro III ('C'
supplement) the purpose of which is to update all HRC-I ObsIDs since Jan
2000 to the latest calibrations available for that configuration.
Specifically, we are updating the DEGAP solution and the Gain Maps
applied. For more information see the Repro IIIC web page at

http://asc.harvard.edu/cda/repro3.html#IIIc

and the associated links.
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