

V&V Reference Report

L2 ASCDS Version : 8.2.1

Observation 1284 - L2 Version 5
Chandra X-Ray Center

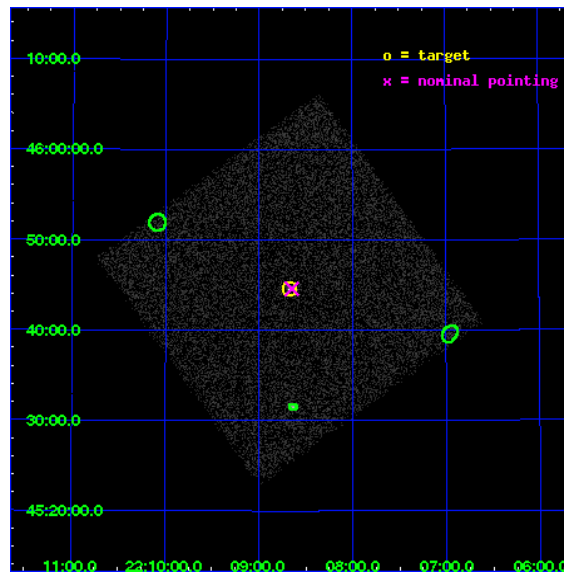
L2 Processing Date : Jan 12 2010

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1 Front

seq_num	280234	Sequence number
obs_id	1284	Observation id
title	 	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.1701	Observer's specified target RA
dec_targ	45.7423	Observer's specified target Dec
ra_nom	332.16176464805	Nominal RA
dec_nom	45.743404173388	Nominal Dec
roll_nom	189.00273062149	Nominal Roll
revision	5	Processing version of data
ontime	795.65627858043	[s]
livetime	789.61762353352	Ontime multiplied by DTCOR
l2events	27067	Number of level 2 events

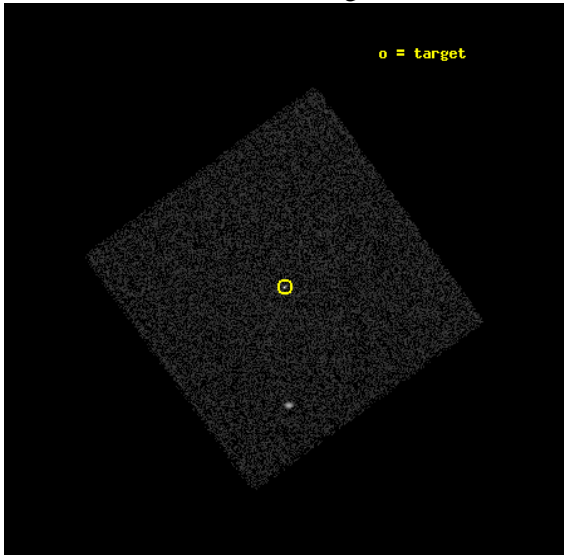


2 OBI

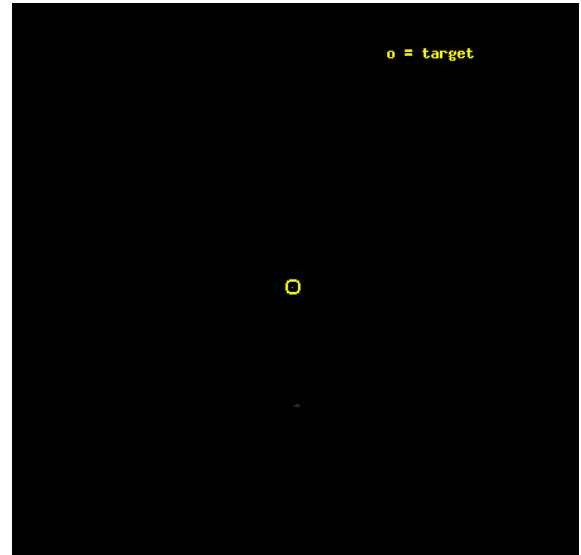
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	Scheduled observation exposure time
ascdsver	8.2.1	Processing system revision	ontime	795.65627858043	[s]
caldbver	4.1.5	 	l1events	47435	Number of level 1 events
date	2010-01-12T15:51:06	Date and time of file creation			
revision	4	Processing version of data			

2.1.3 Events

Level 1 Events

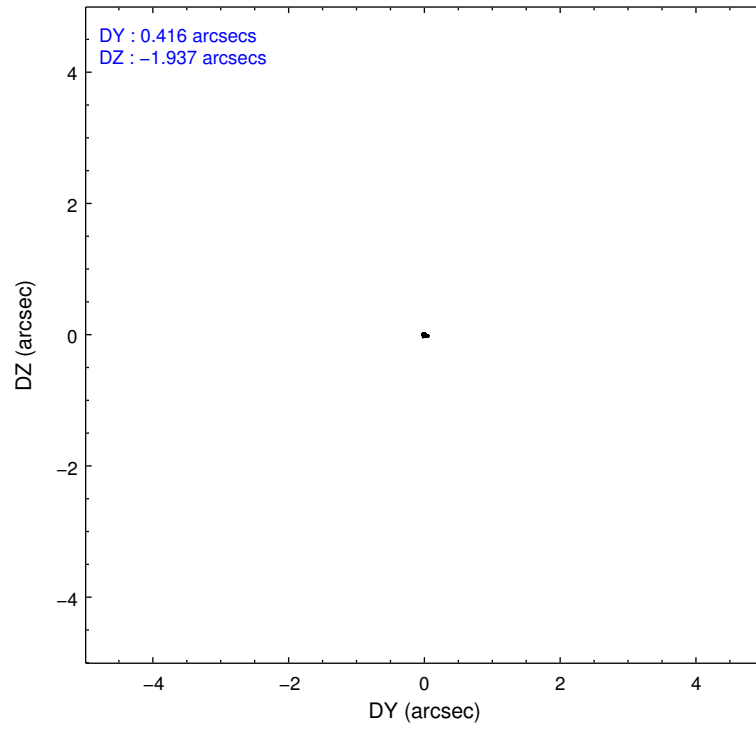
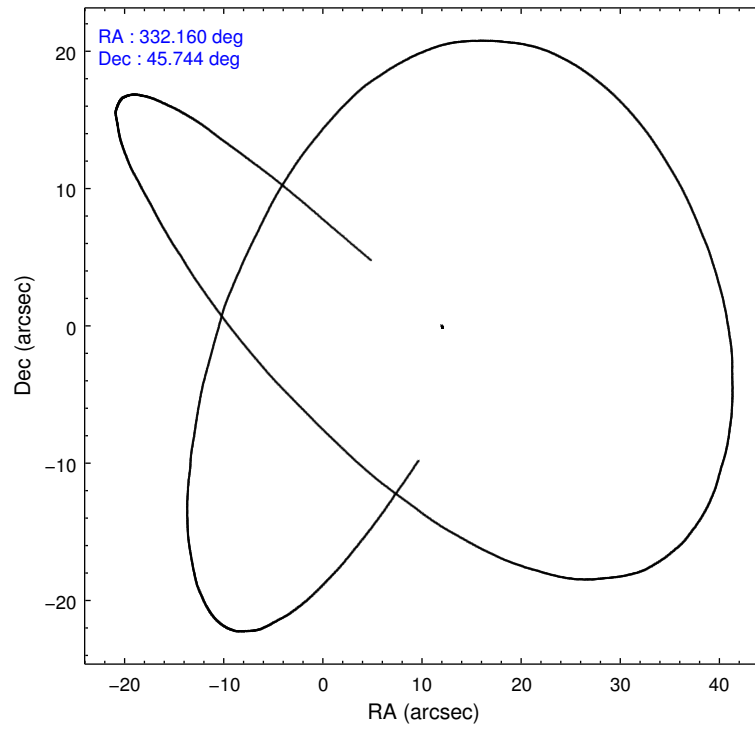
	segment 0
level 1 events	47435
rejected events	2740
rejected %	5%

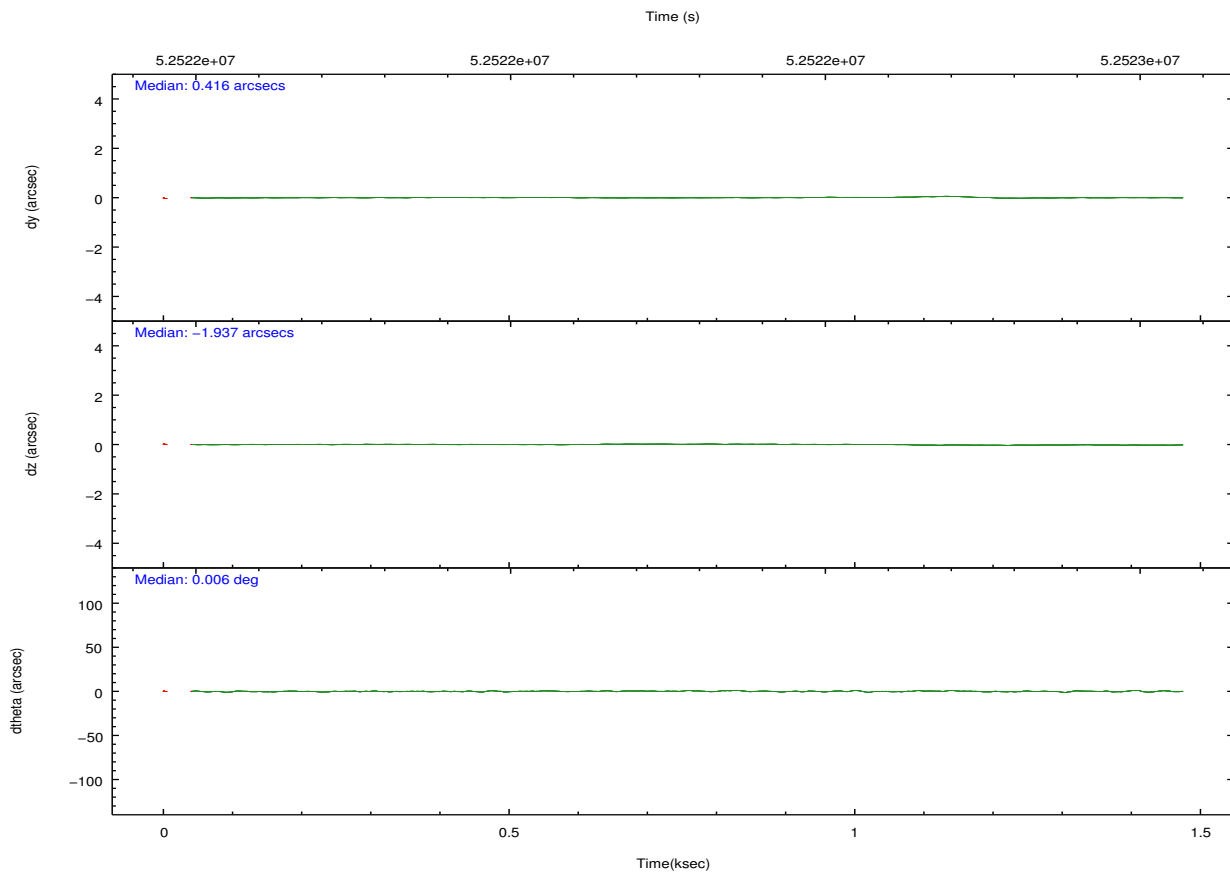
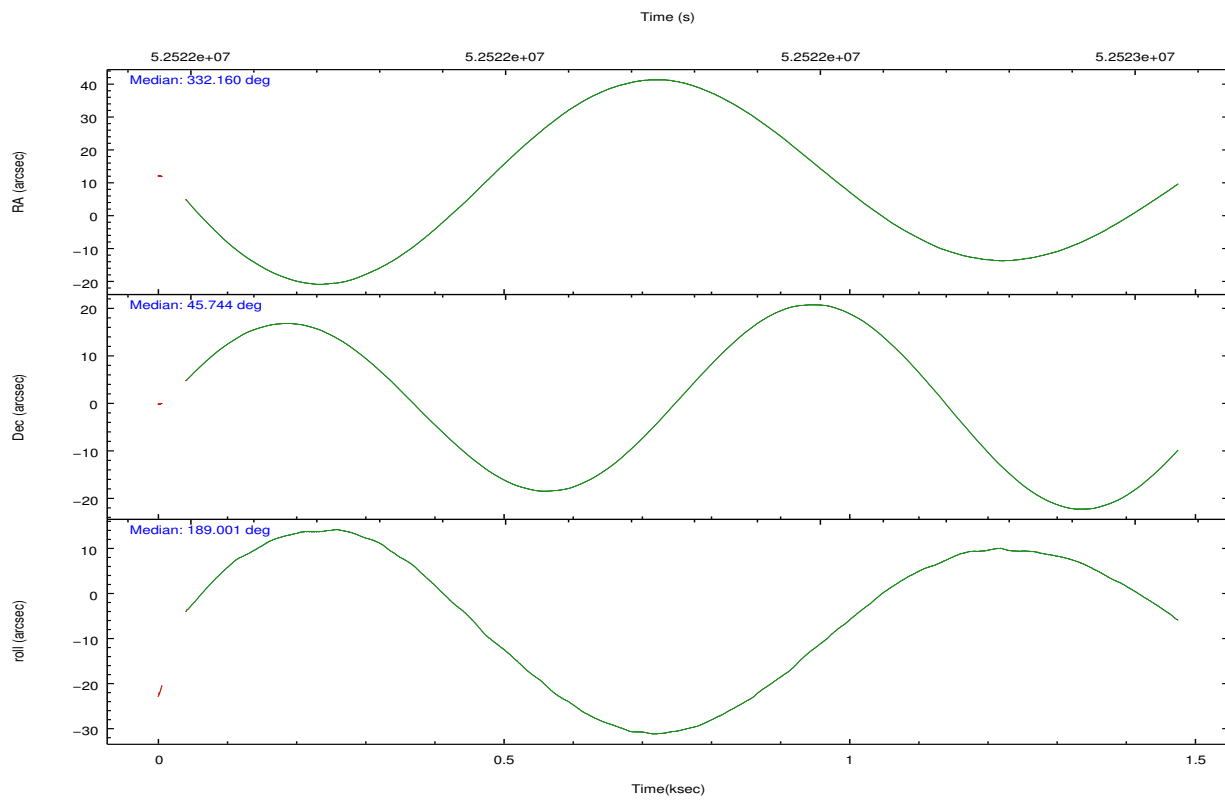
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
Pointing RA	332.193922	332.1617646480478
Pointing Dec	45.760825	45.74340417338831
Pointing Roll	189.075130	189.0027306214946
SIM focus pos (mm)	-0.540293	-1.058826658715952
SIM defocus (mm)	0.5	-0.01853403805707798
SIM translation stage pos (mm)	126.985494	126.9829799899862
SIM translation stage offset (mm)	0	0.002508901615314585
Observation start time	52521994.184000	52521328.636973
Observation start date	1999-08-31T21:25:30	1999-08-31T21:15:28
Observation end time	52522994.184000	52523128.537038
Observation end date	1999-08-31T21:42:10	1999-08-31T21:45:28

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

2.3 Aspect



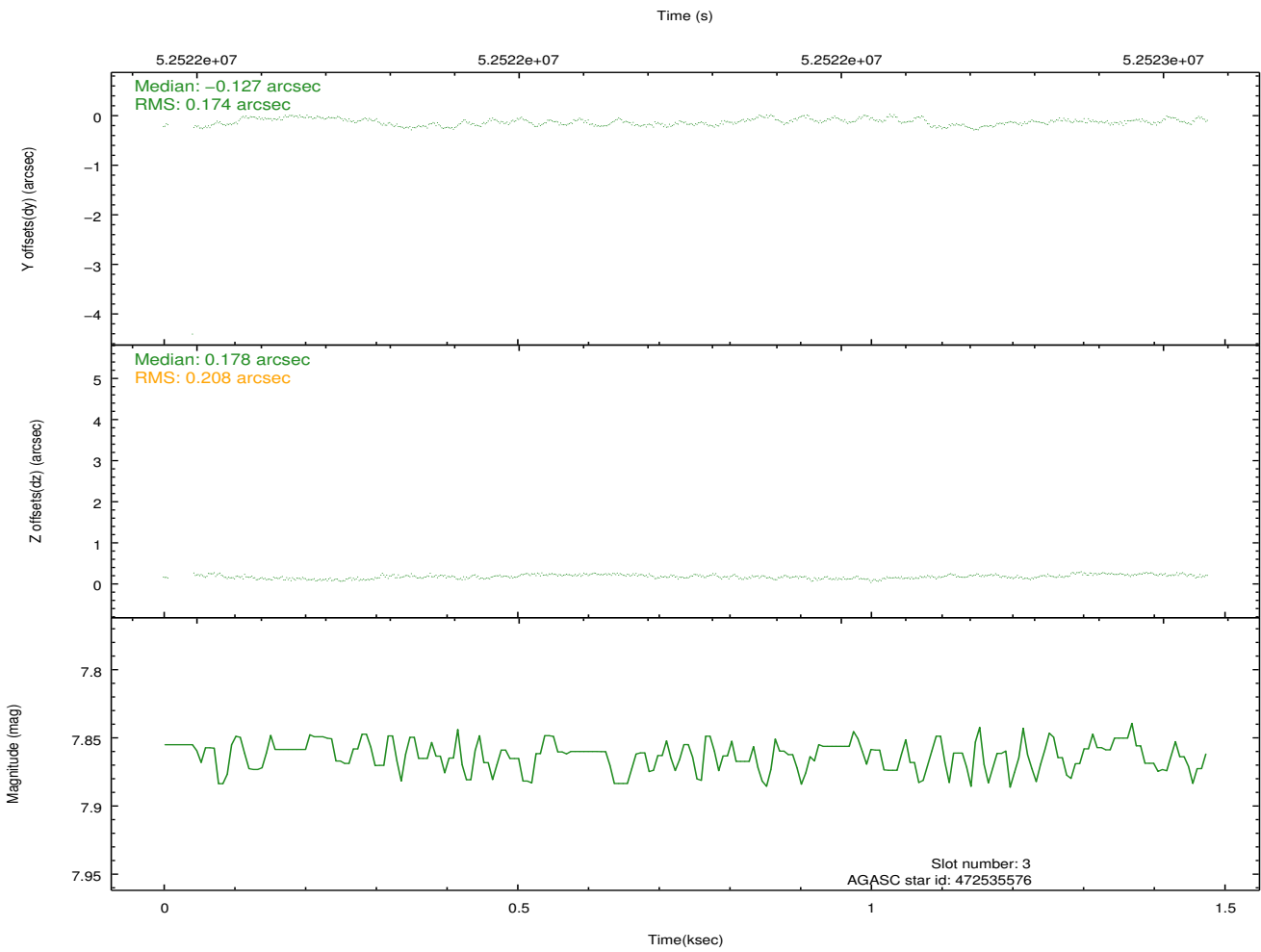
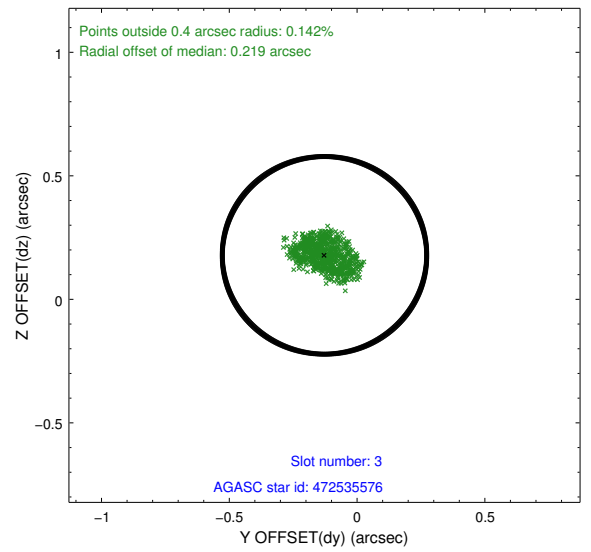
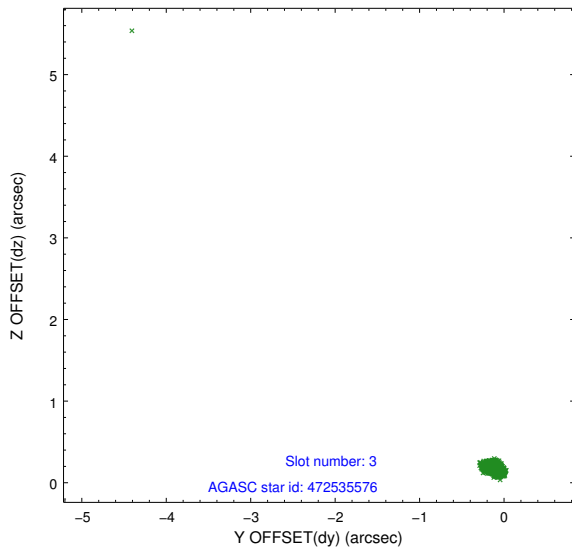


Slot Statistics

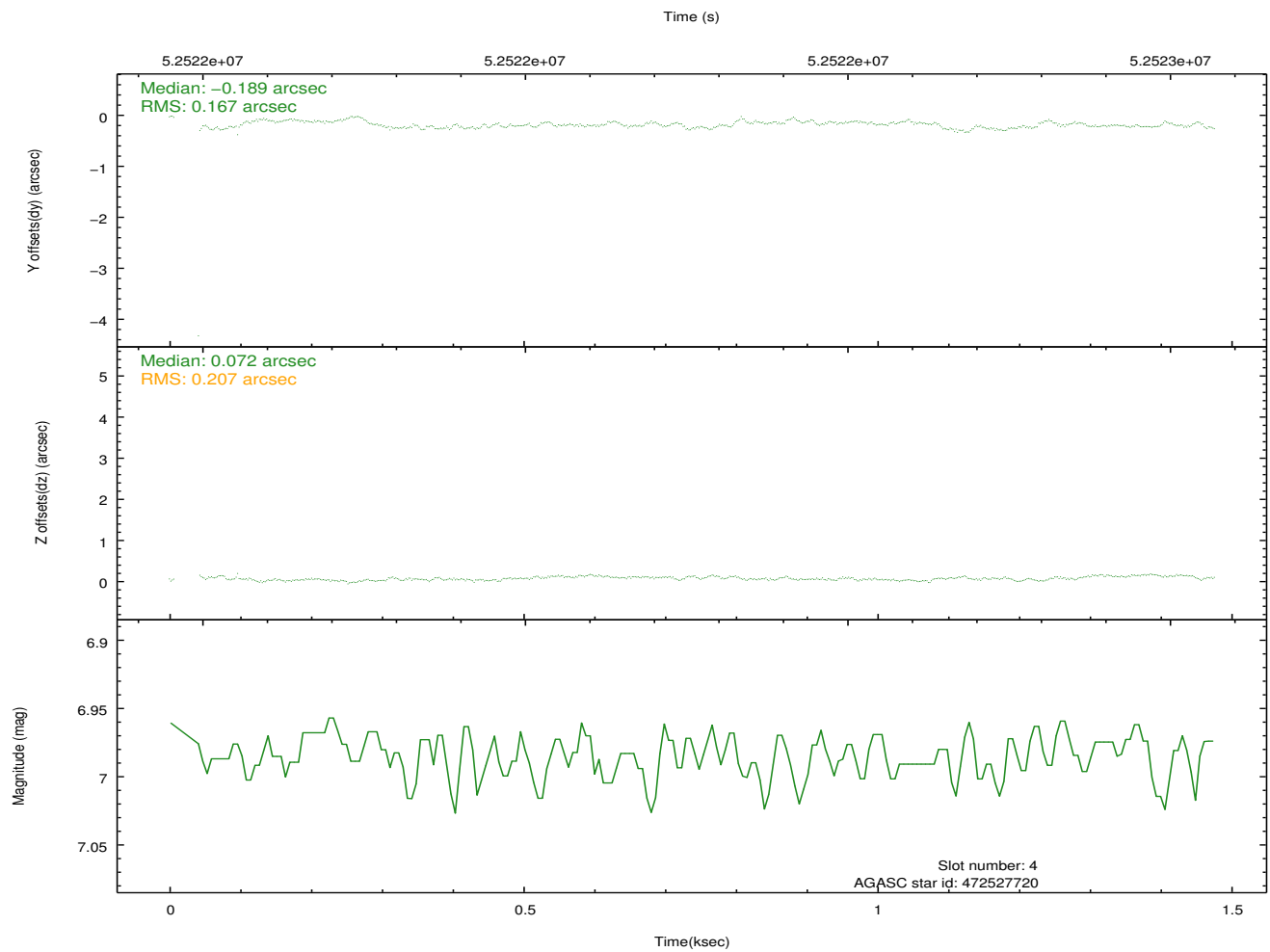
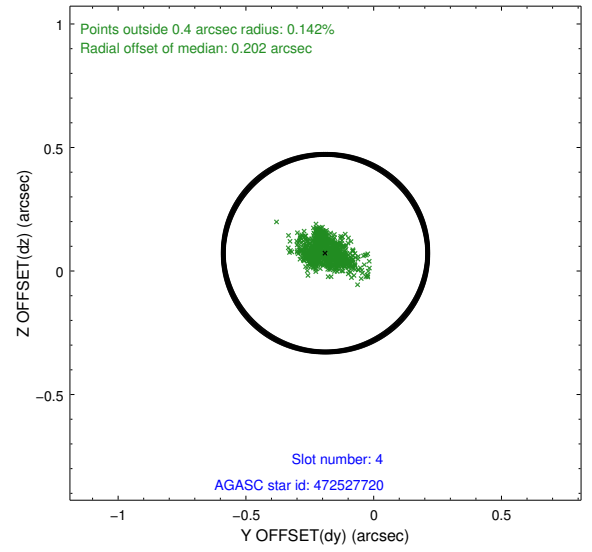
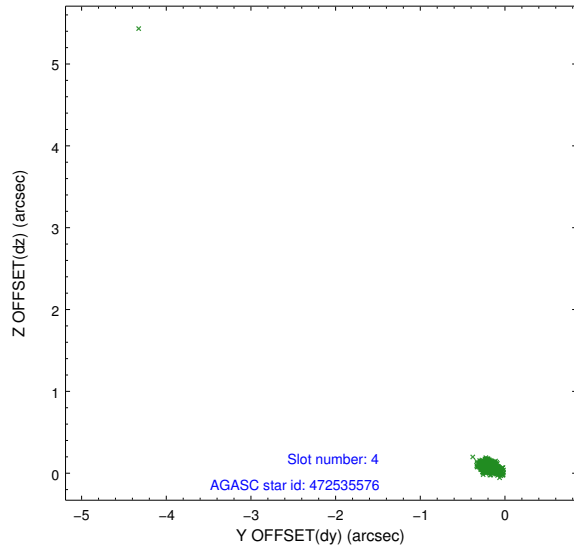
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.95	704	0.096	0.004	0.006	0.010	0.000000	0.000000	-755.75	-1285.78
1	FID	HRC-I-3	7.04	705	0.149	-0.049	0.006	0.011	0.000000	0.000000	-1185.37	1017.07
2	FID	HRC-I-4	6.97	705	-0.065	-0.087	0.005	0.009	0.000000	0.000000	1285.28	1017.99
3	GUIDE	472535576	7.86	705	-0.127	0.178	0.093	0.133	331.438373	46.291802	1548.19	-2192.43
4	GUIDE	472527720	6.99	705	-0.189	0.072	0.078	0.125	331.460205	45.112509	2204.61	1999.64
5	GUIDE	472665256	9.02	705	0.049	-0.074	0.087	0.141	332.808125	46.195041	-1760.55	-1305.21
6	GUIDE	472659832	9.46	705	-0.024	-0.026	0.096	0.149	332.780399	46.098139	-1645.46	-975.33
7	BAD	472654568	9.48	465	0.422	-0.249	0.178	0.246	332.194449	45.063576	384.99	2468.52

2.4 Star Slots

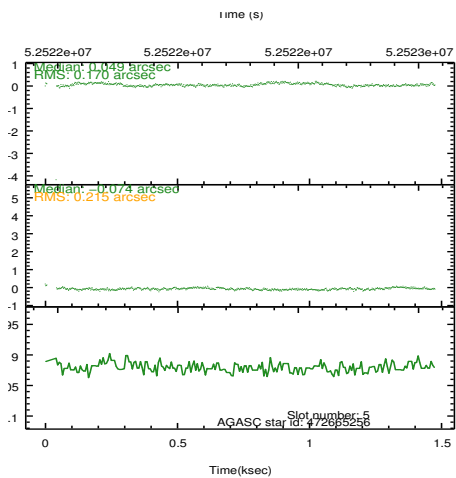
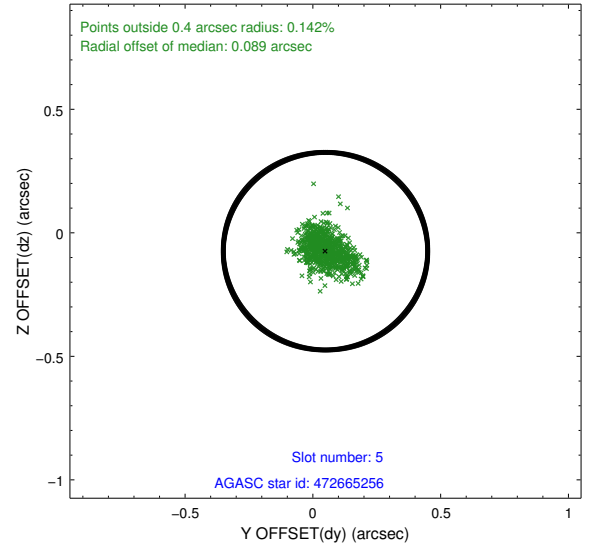
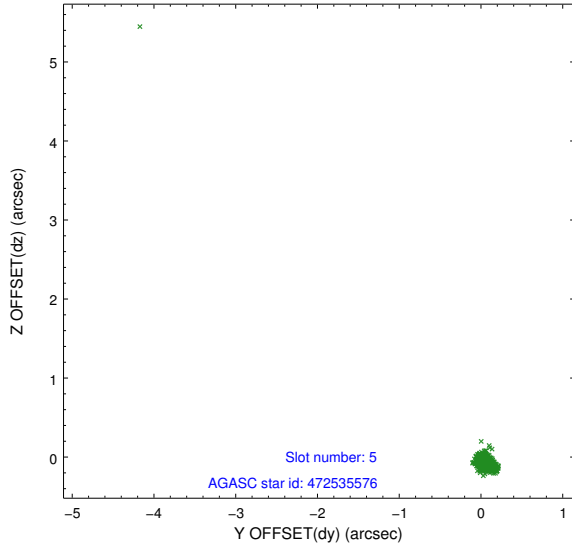
2.4.1 Slot 3



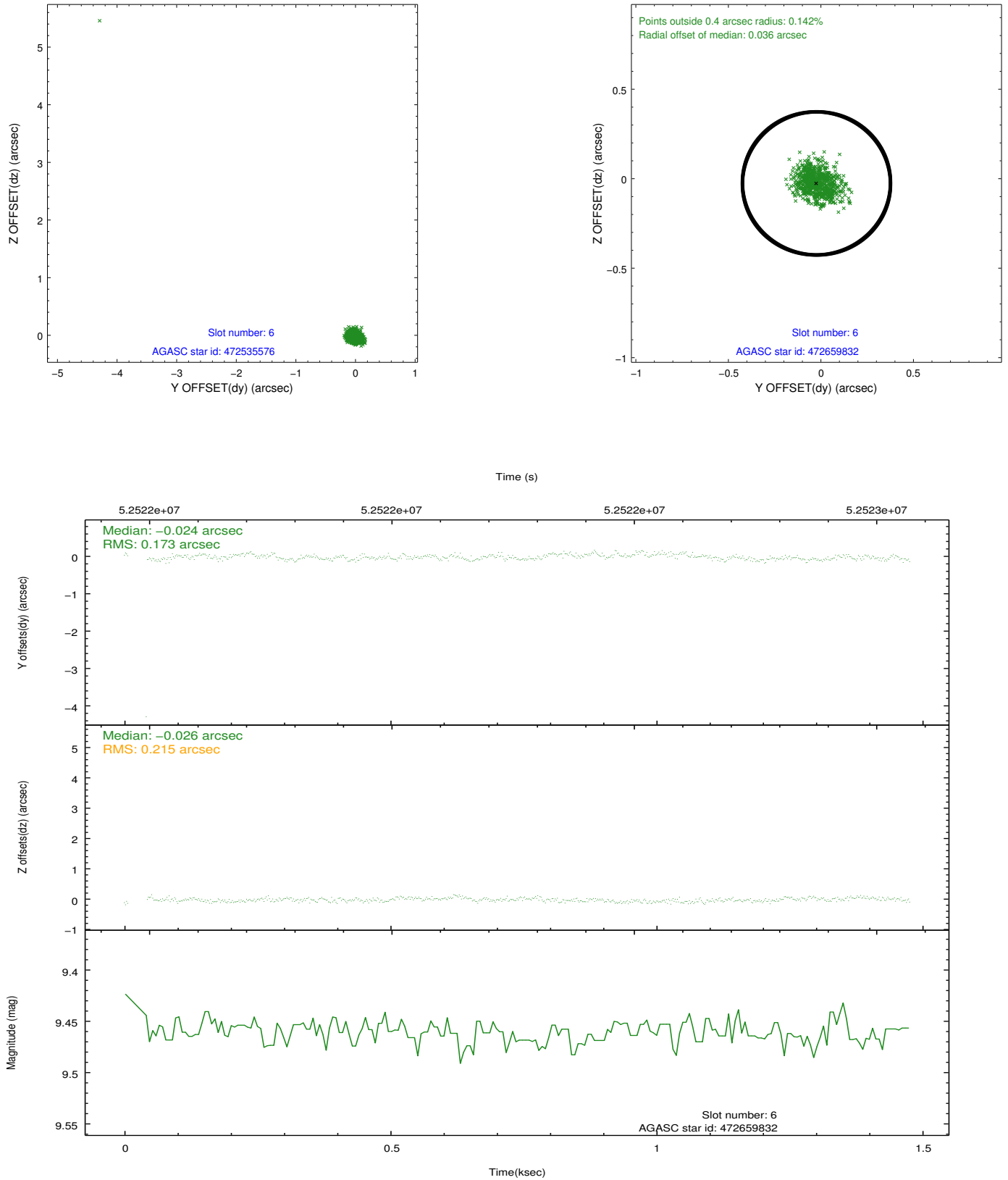
2.4.2 Slot 4



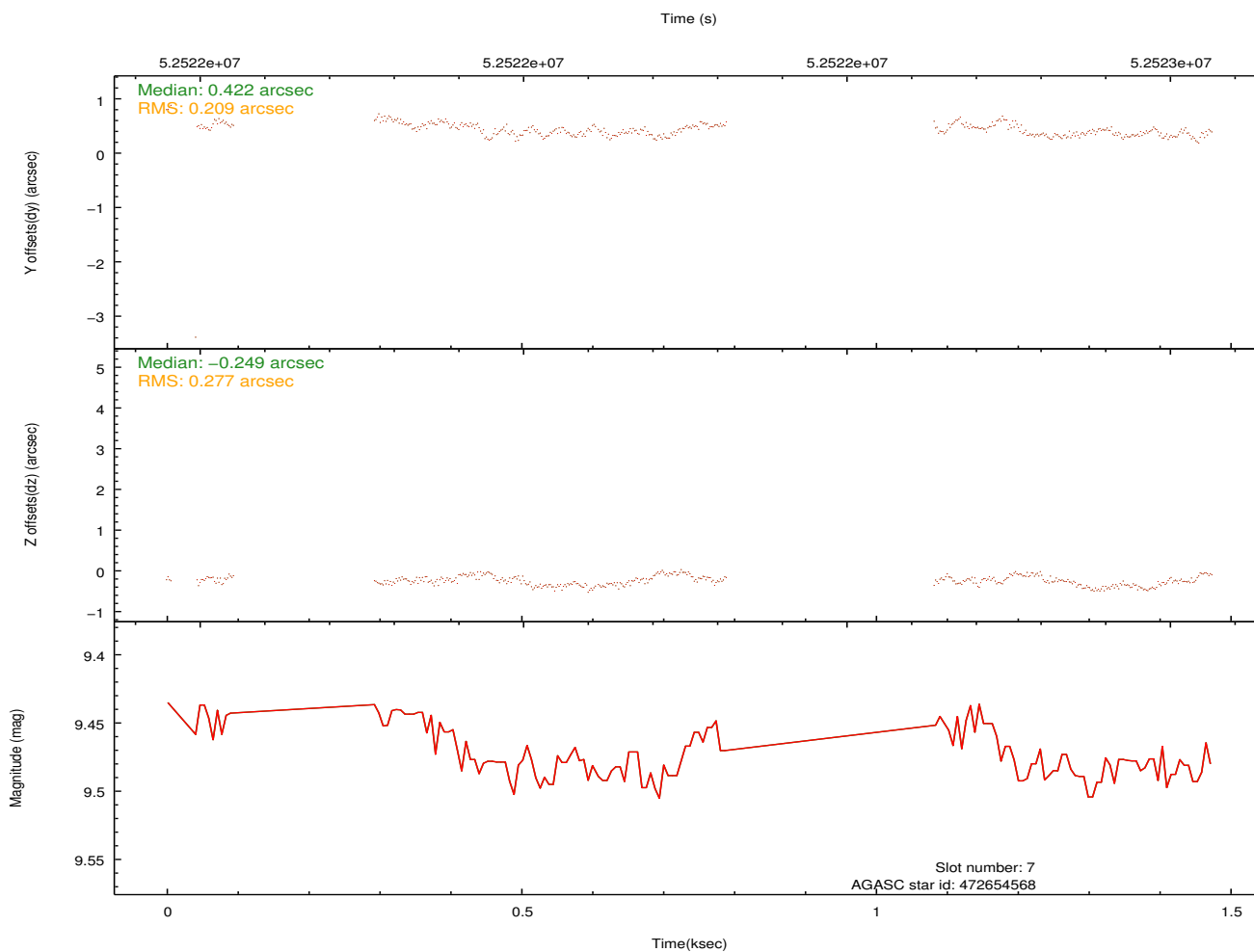
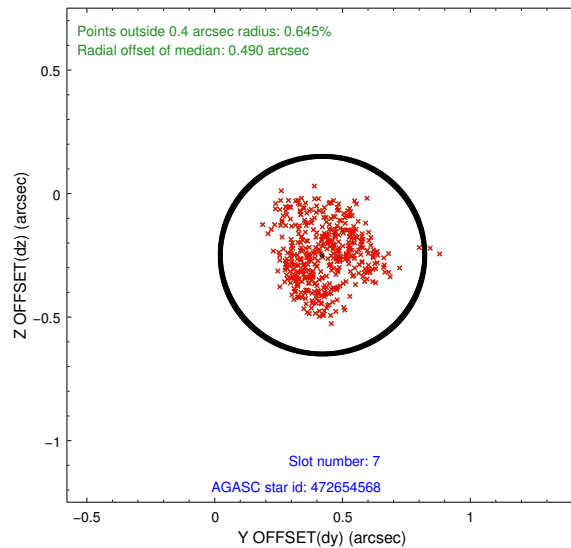
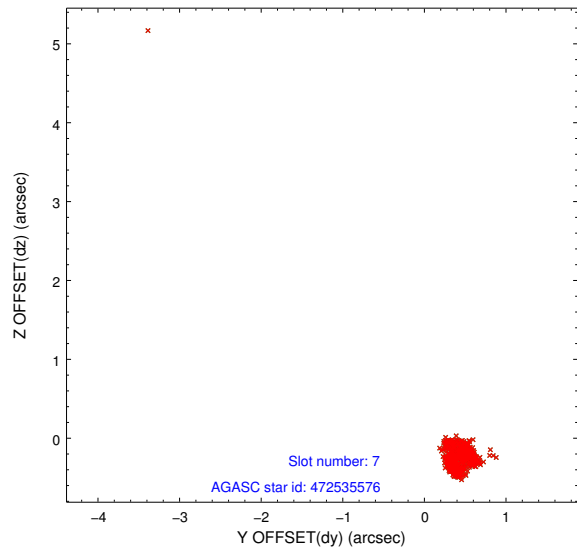
2.4.3 Slot 5



2.4.4 Slot 6

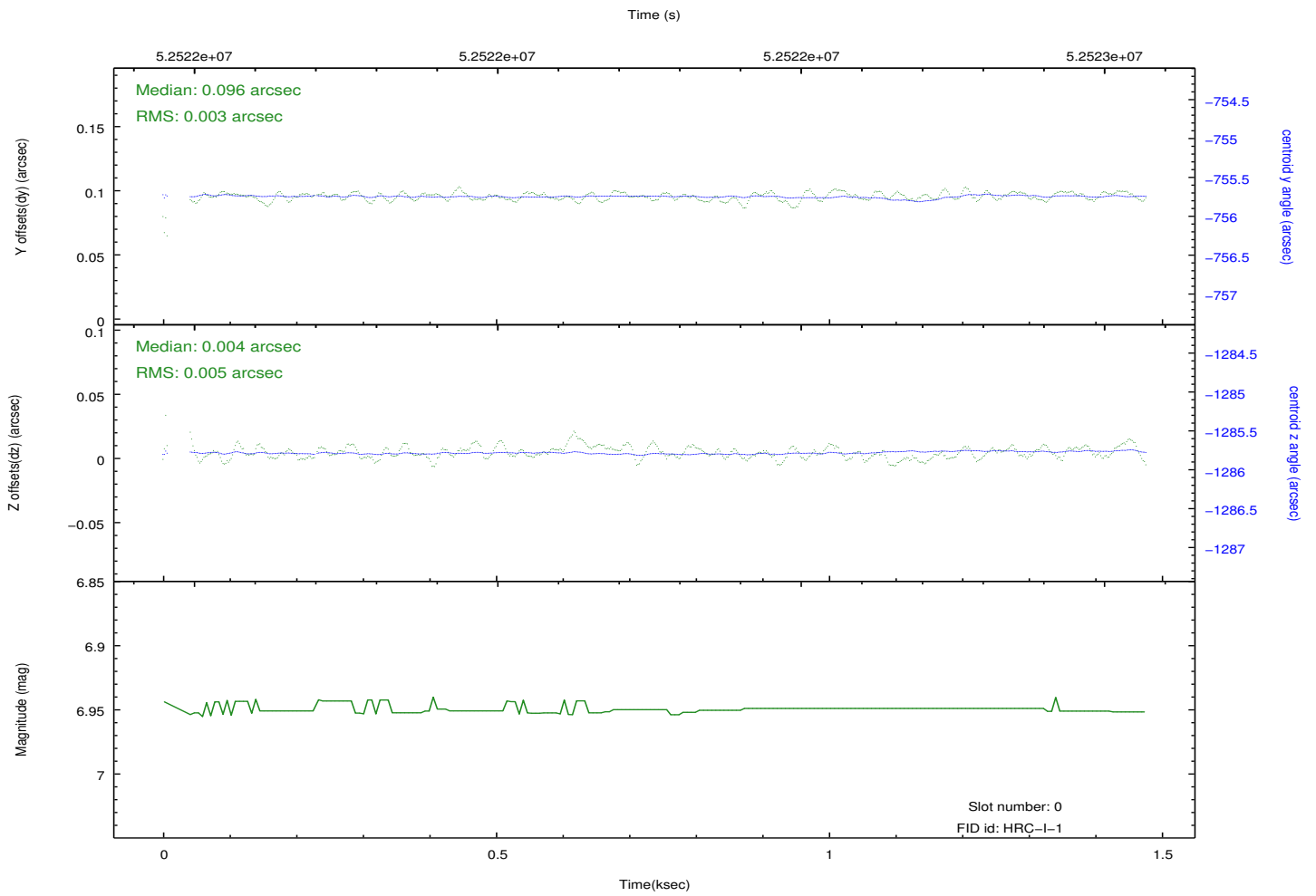
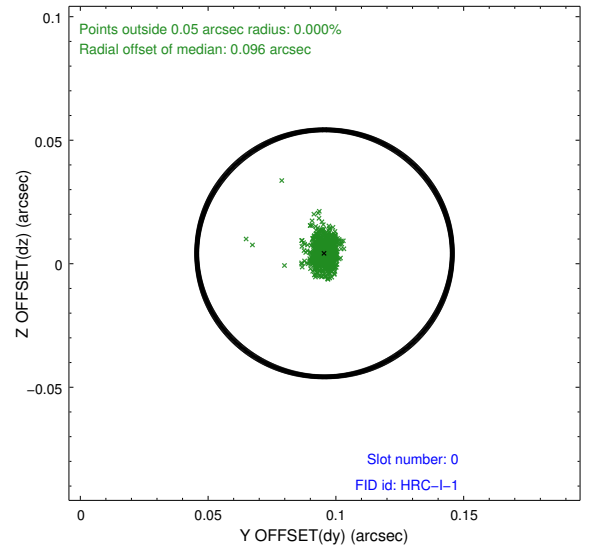
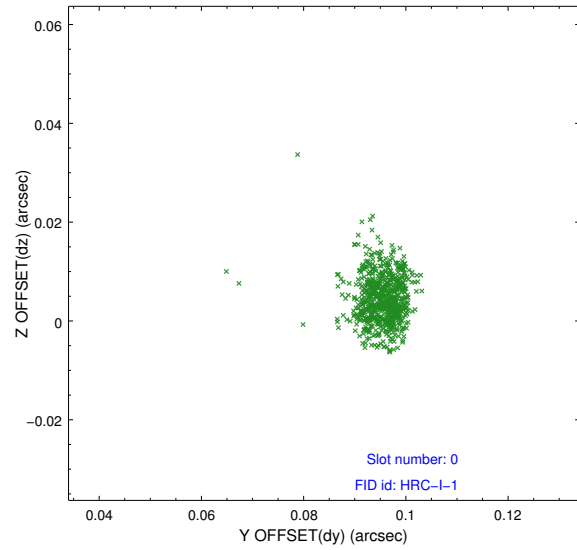


2.4.5 Slot 7

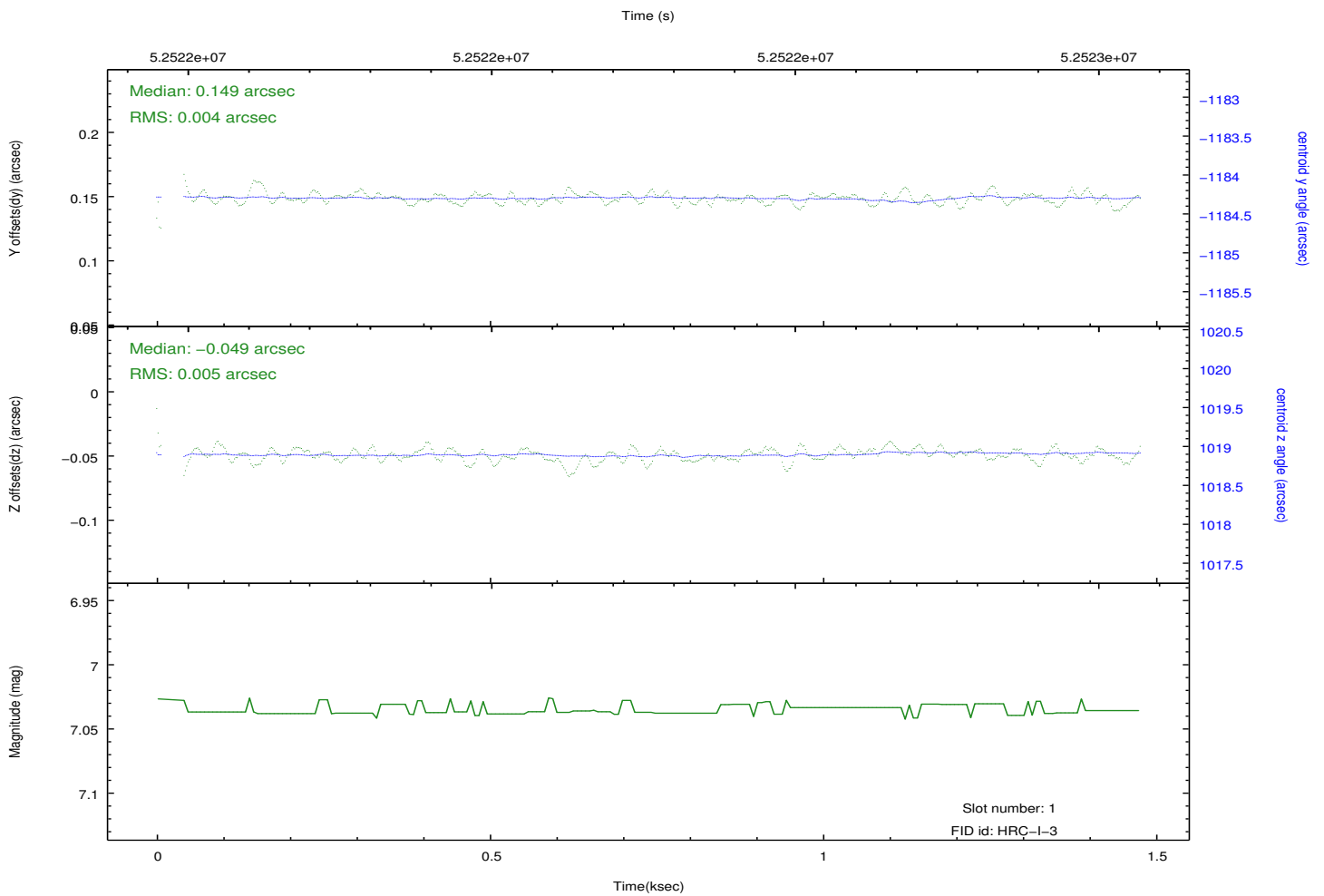
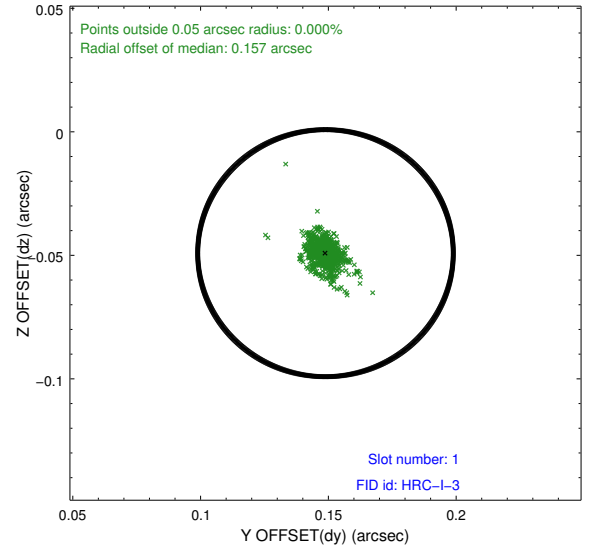
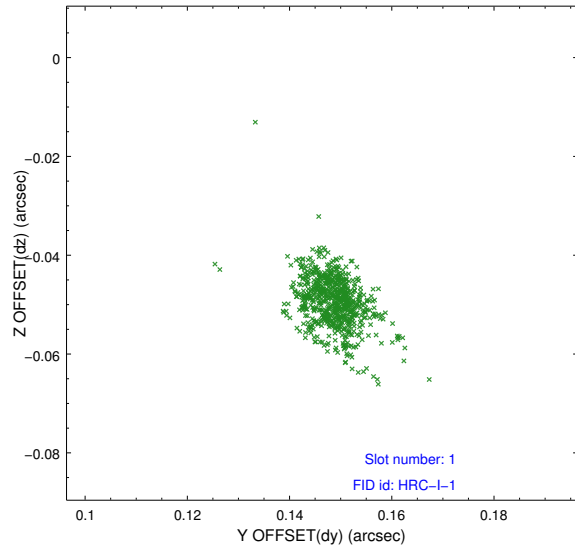


2.5 FID Slots

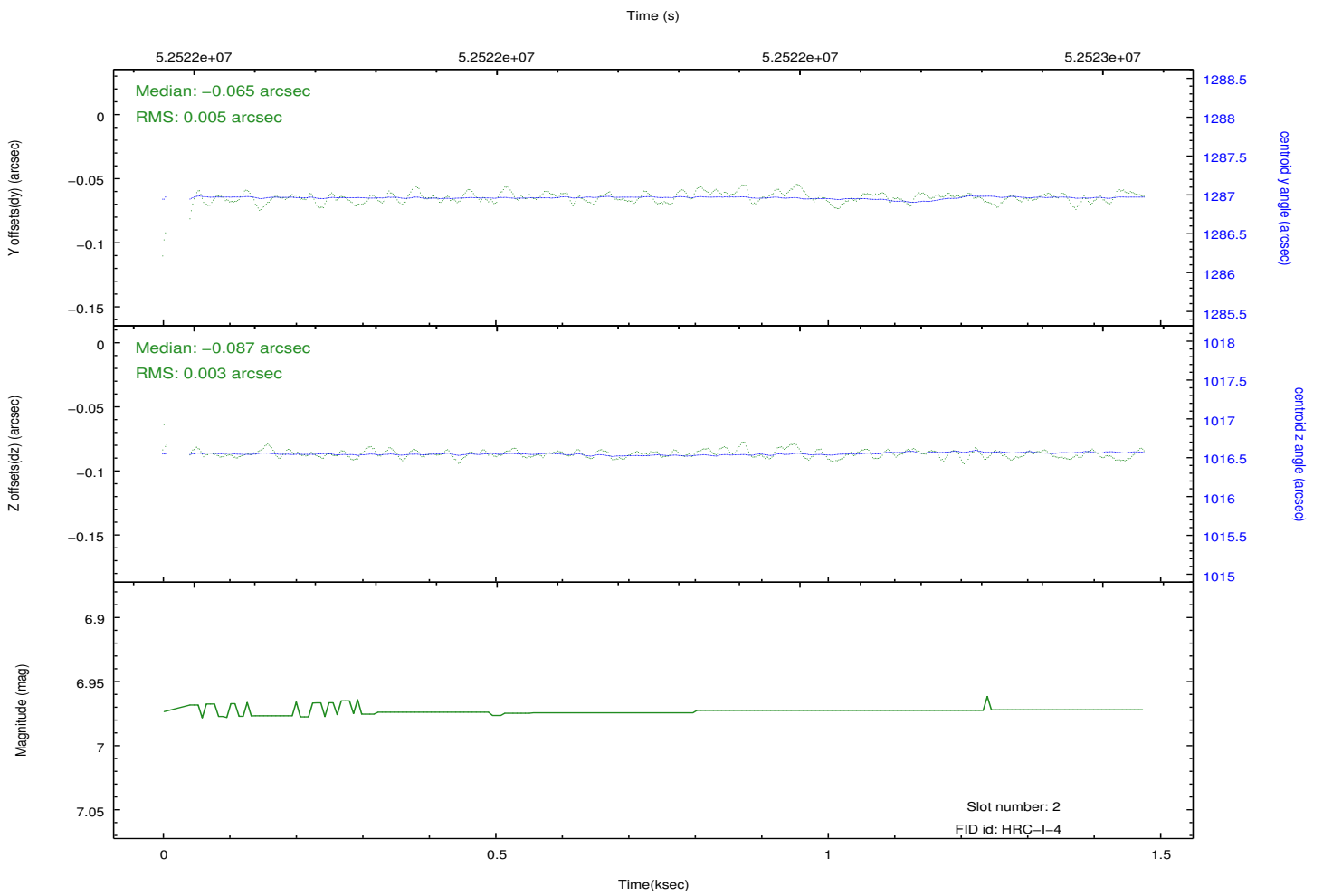
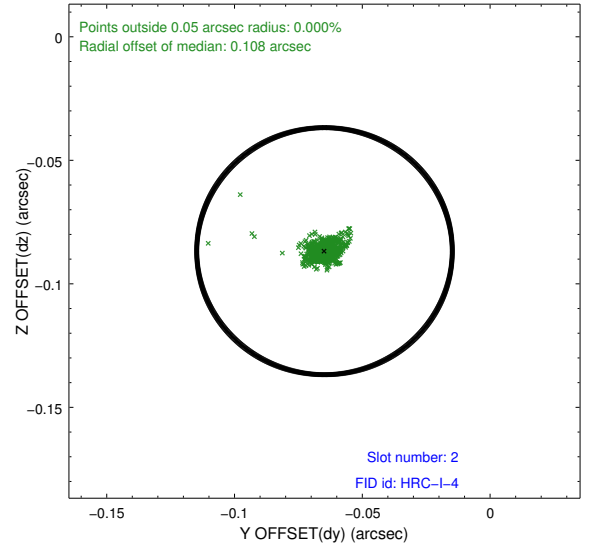
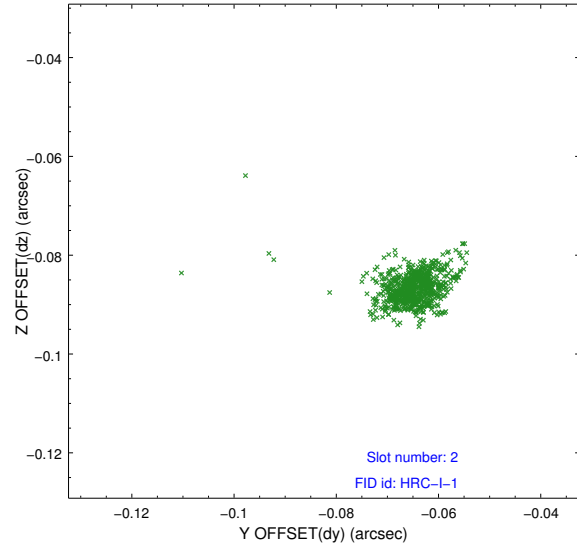
2.5.1 Slot 0



2.5.2 Slot 1

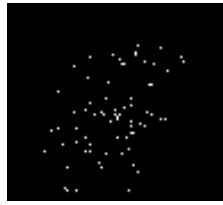


2.5.3 Slot 2



3 Point Sources

18.47 arcmin



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.01.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.795

A.2 Comments

Series of HRC focus tests around revised HRC-I focus.
HRC using manual commanding to revised focus
position (-730) while maneuvering for the observation.

=====

One bad record in aspect guide star data causes large rms values for
all guide stars. Guide star in slot 7 was not tracked with sufficient
accuracy and was not included in the aspect solution.

Some odd aspect warnings

The guide star in slot 7 was removed from the aspect solution due to
poor data quality. The aspect solution is not expected to be degraded by
removing one fid light or guide star from the solution.