

V&V Reference Report

L2 ASCDS Version : 10.2.2

Observation 16483 - L2 Version 3
Chandra X-Ray Center

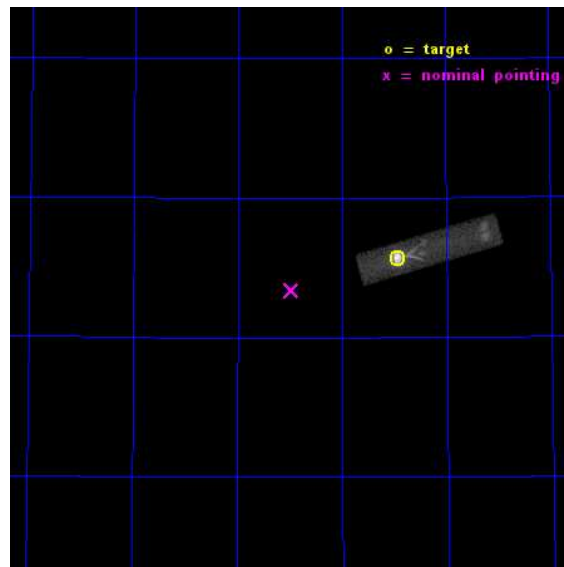
L2 Processing Date : Dec 12 2014

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1 Front

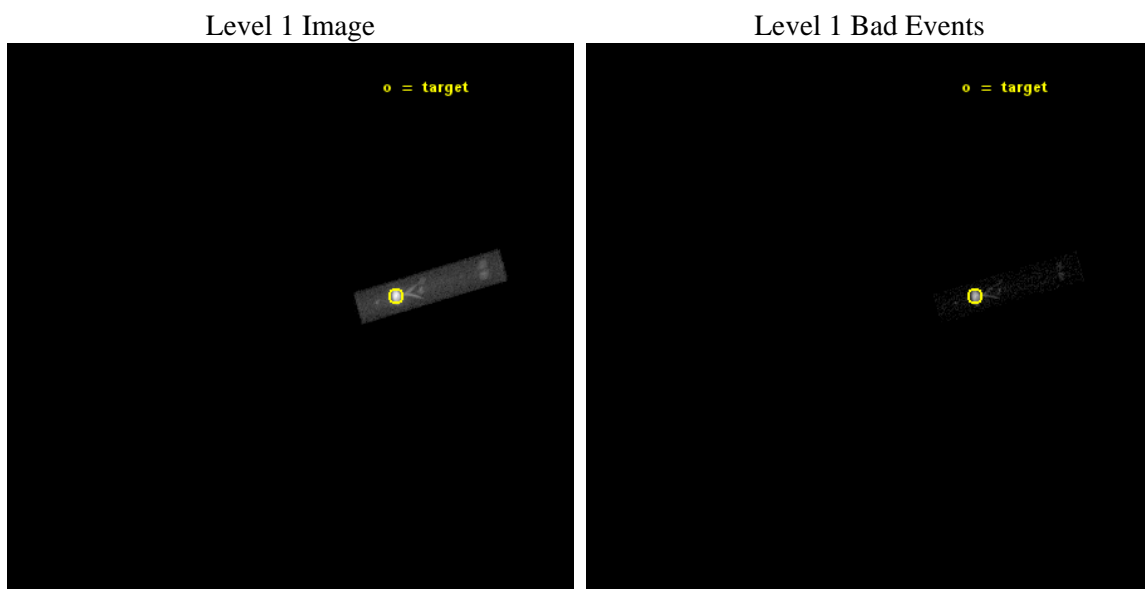
seq_num	291195	Sequence number
obs_id	16483	Observation id
title	AO-15 Measurements of the optical/UV Transmission of the HRC Filters.	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235833	Observer's specified target RA [deg]
dec_targ	38.78475	Observer's specified target Dec [deg]
ra_nom	279.74329348436	Nominal RA [deg]
dec_nom	38.669914603403	Nominal Dec [deg]
roll_nom	163.84983222616	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1200.5313164592	[s]
livetime	504.76934682068	Ontime multiplied by DTCOR
l2events	214766	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	1000.535000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	1200.5313164592	[s]
caldbver	4.6.4	 	l1events	298792	Number of level 1 events
date	2014-12-12T16:46:17	Date and time of file creation			
revision	3	Processing version of data			

2.1.3 Events

Level 1 Events

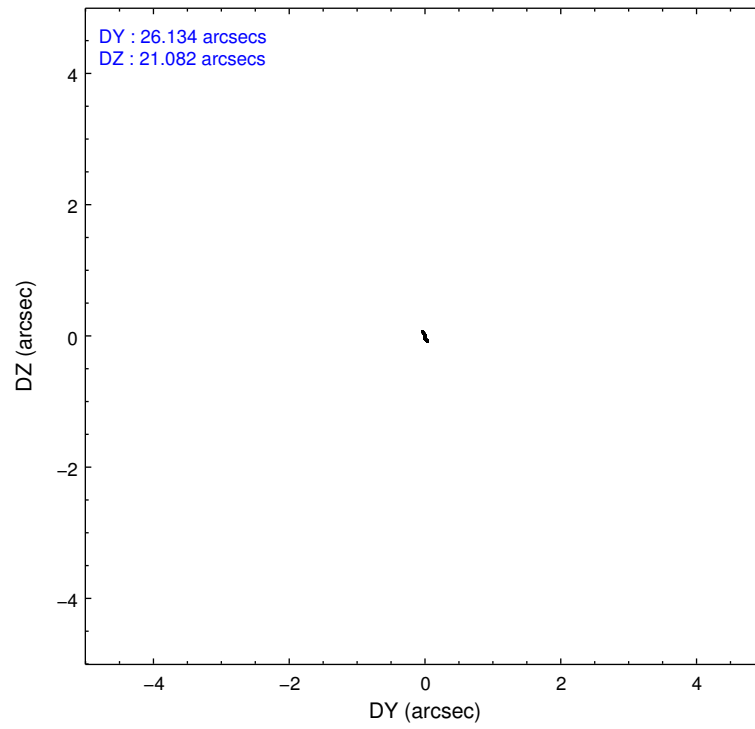
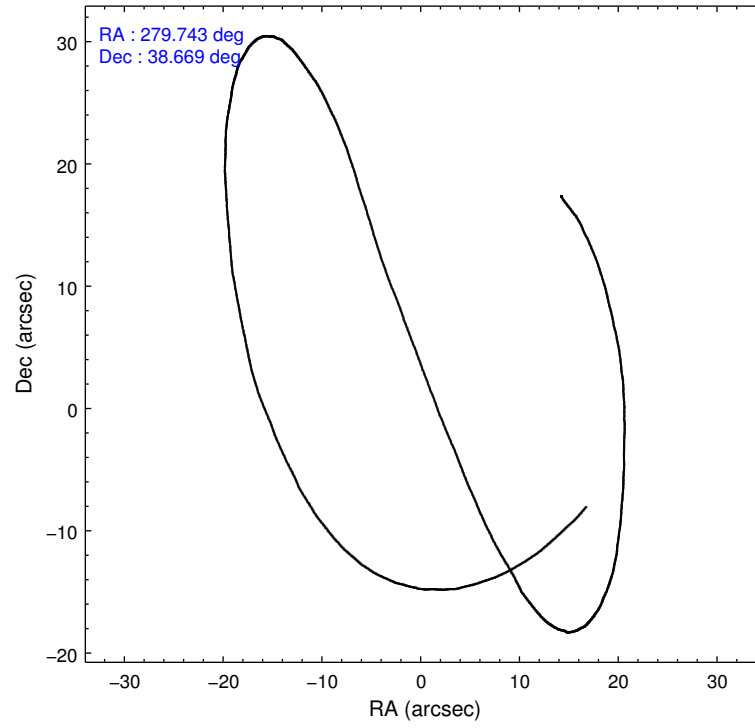
	segment 1	segment 2	segment 3
level 1 events	0	17	298775
rejected events	0	5	77423
rejected %	0%	29%	25%

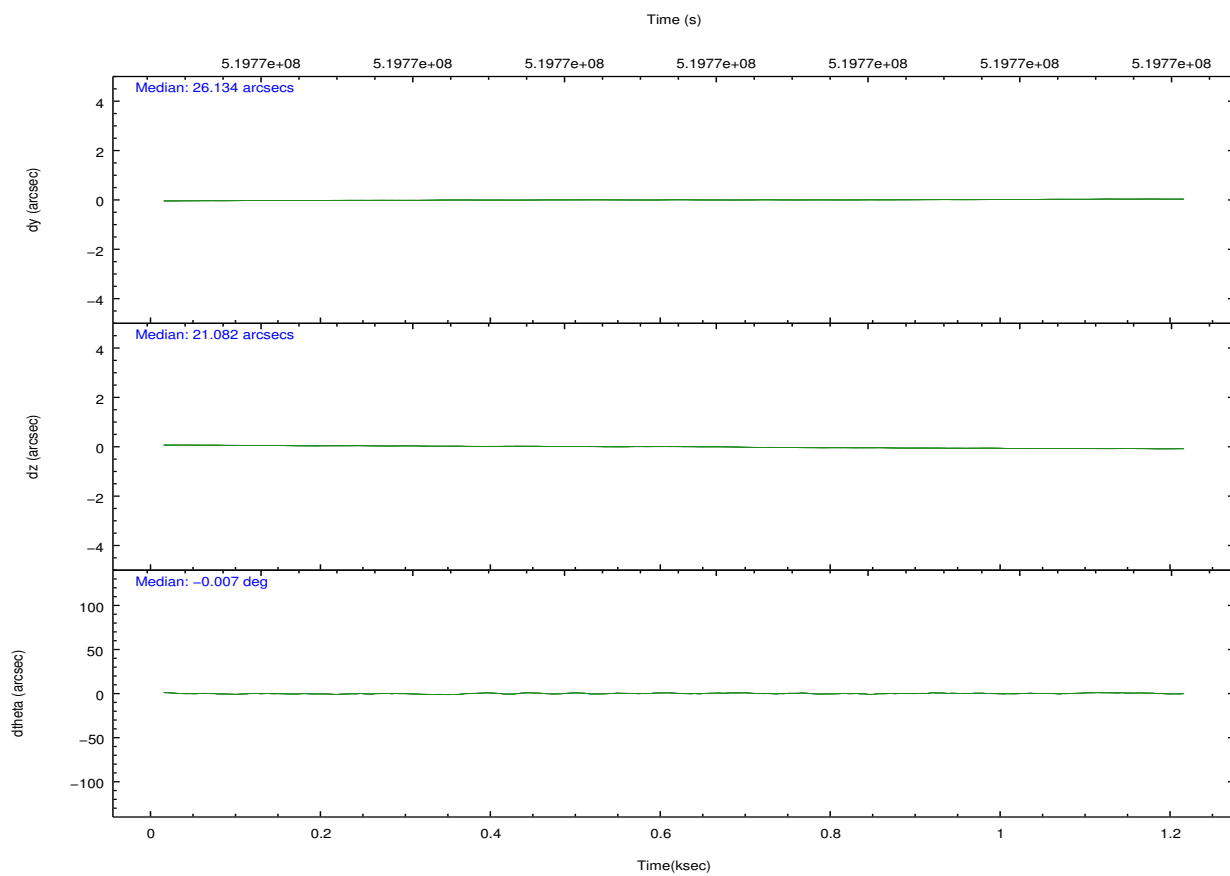
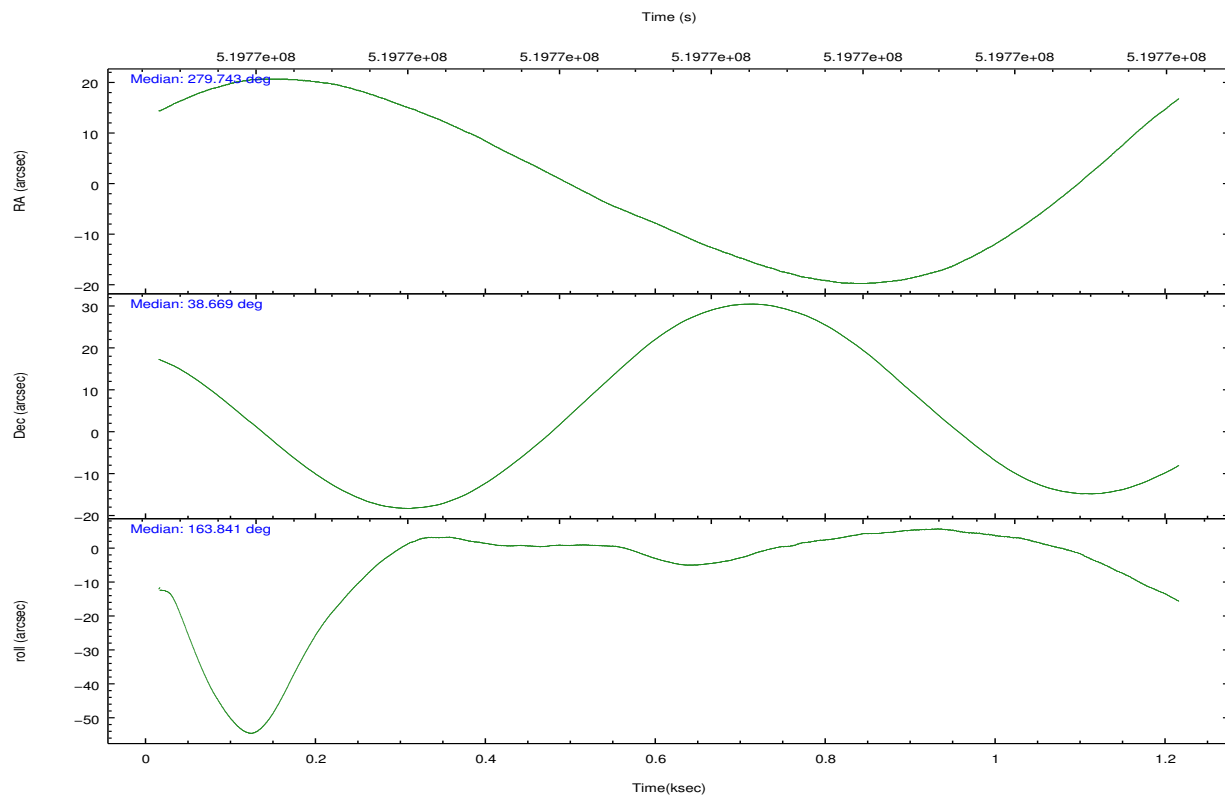
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	279.778466	279.7432934843602
[deg] Pointing Dec	38.679111	38.66991460340273
[deg] Pointing Roll	163.760540	163.8498322261648
[s] Window start time (MET)	517968067.184000	517968067.184000
[s] Window stop time (MET)	523152067.184000	523152067.184000
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	519773733.184000	519773211.10022
Observation start date	2014-06-21T21:34:26	2014-06-21T21:26:51
[s] Observation end time (MET)	519774733.184000	519774891.58781
Observation end date	2014-06-21T21:51:06	2014-06-21T21:54:51

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect



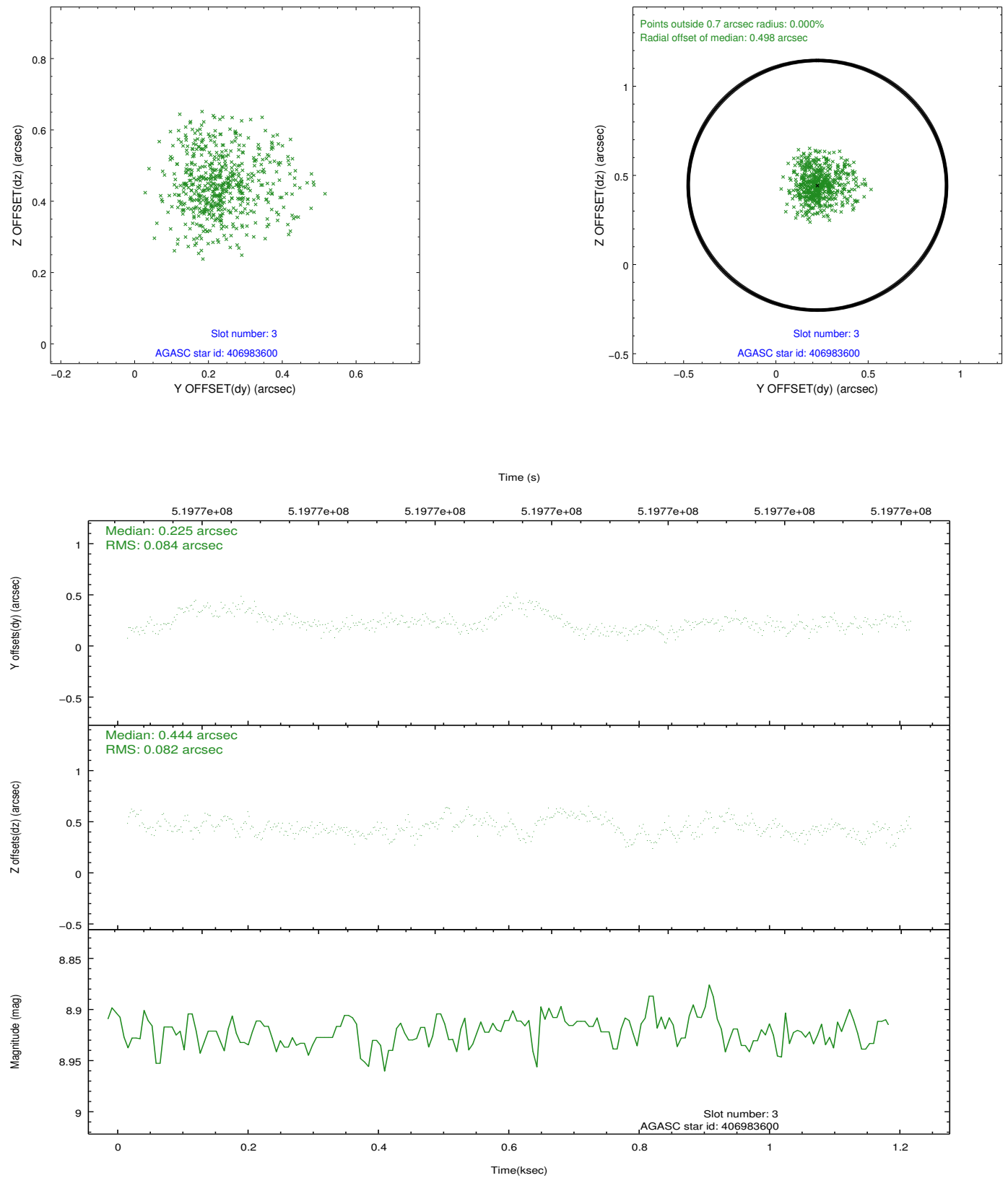


Slot Statistics

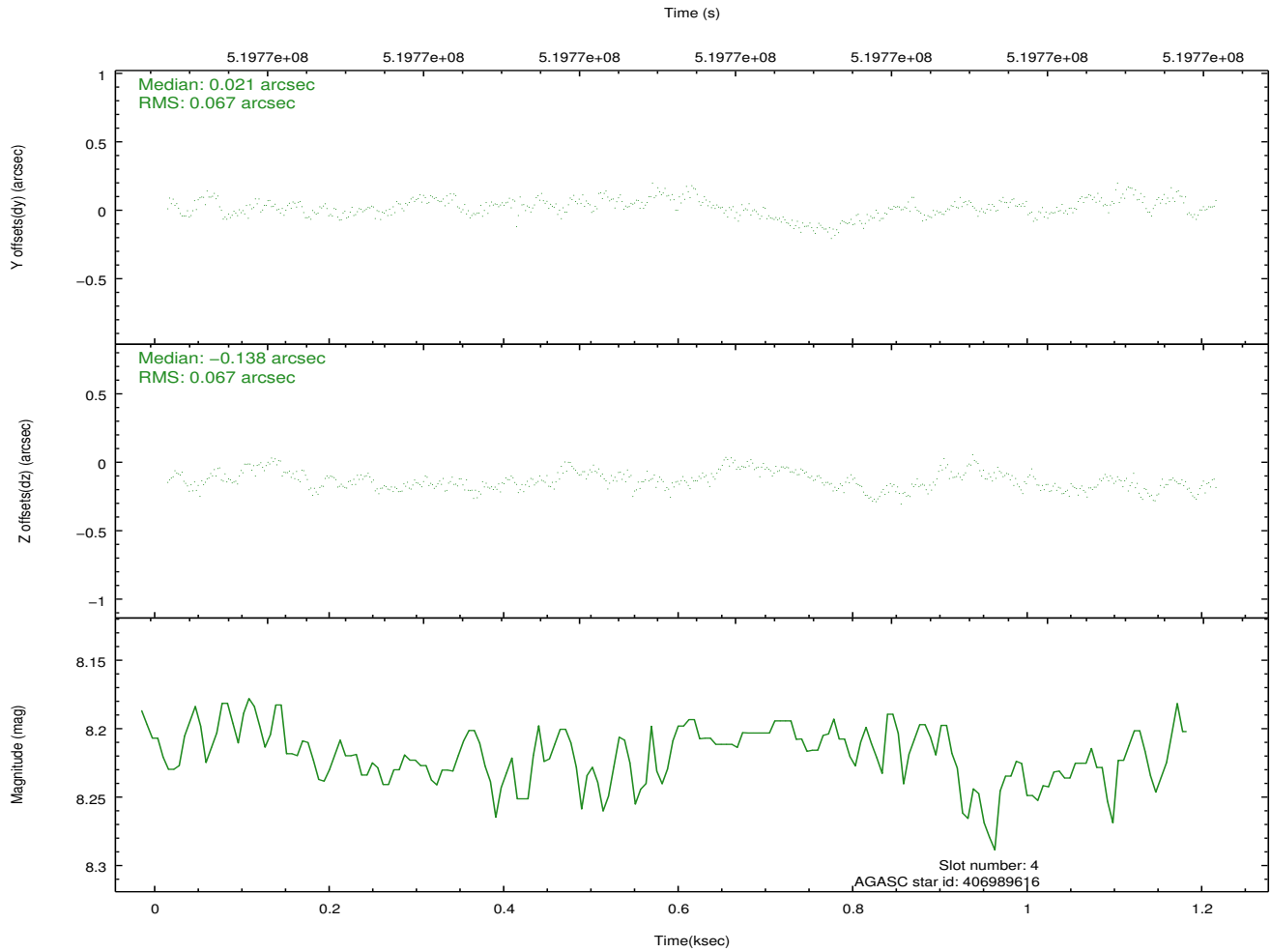
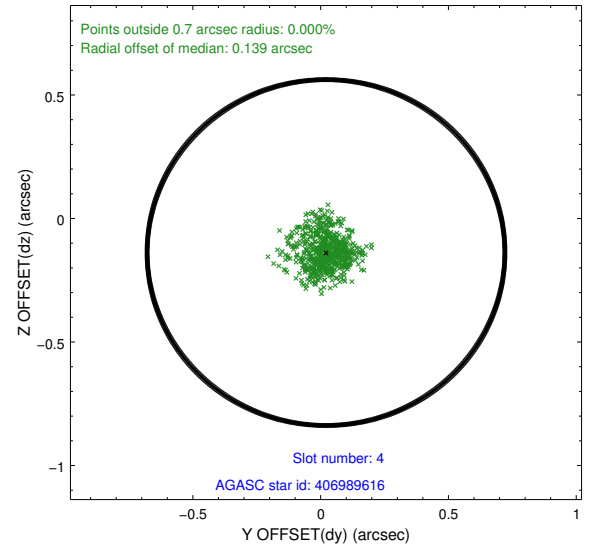
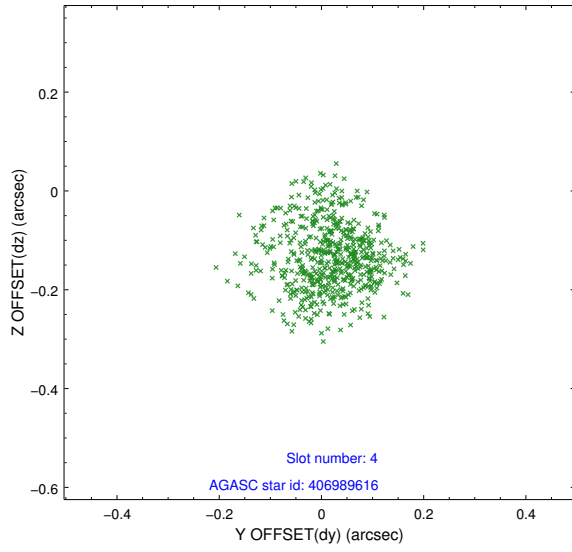
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	6.99	294	-0.022	-0.112	0.008	0.012	0.000000	0.000000	-1180.89	-470.16
1	FID		HRC-S-2	6.96	293	0.367	-0.136	0.005	0.009	0.000000	0.000000	1215.13	-464.29
2	FID		HRC-S-3	7.01	294	0.046	-0.054	0.008	0.014	0.000000	0.000000	-1179.47	557.84
3	GUIDE	used	406983600	8.92	587	0.225	0.444	0.127	0.205	279.940957	39.020708	-92.16	-1310.18
4	GUIDE	used	406989616	8.22	587	0.021	-0.138	0.103	0.158	279.202881	38.520843	1399.54	990.17
5	GUIDE	used	406992968	7.65	587	0.183	-0.029	0.120	0.199	279.925490	37.993090	-1087.12	2251.76
6	GUIDE	used	406989712	9.87	579	-0.440	-0.275	0.271	0.475	278.750095	38.245595	2358.07	2296.97
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

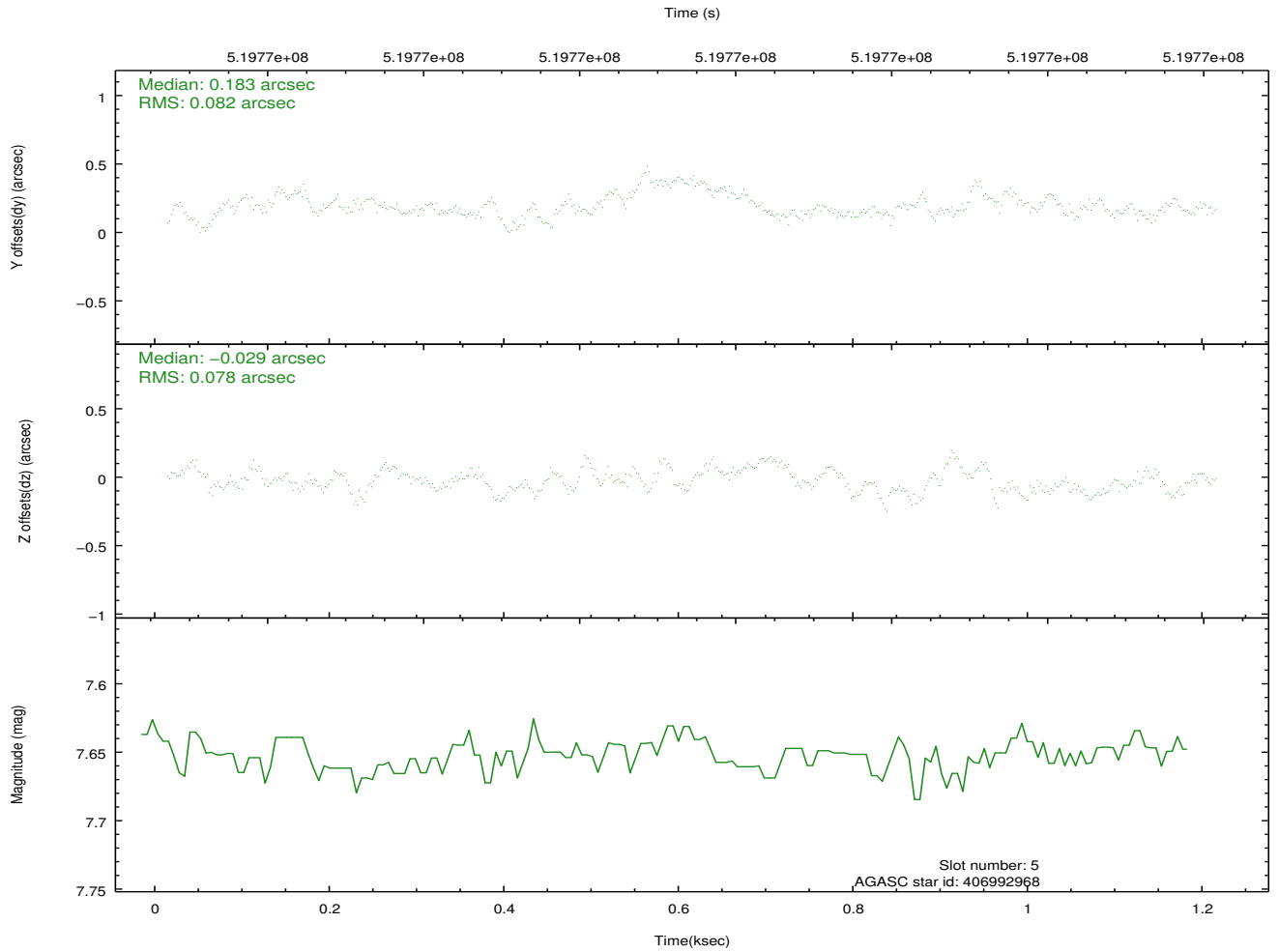
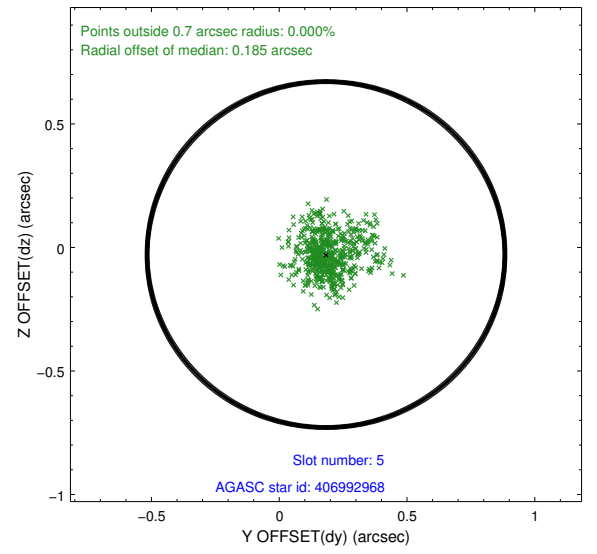
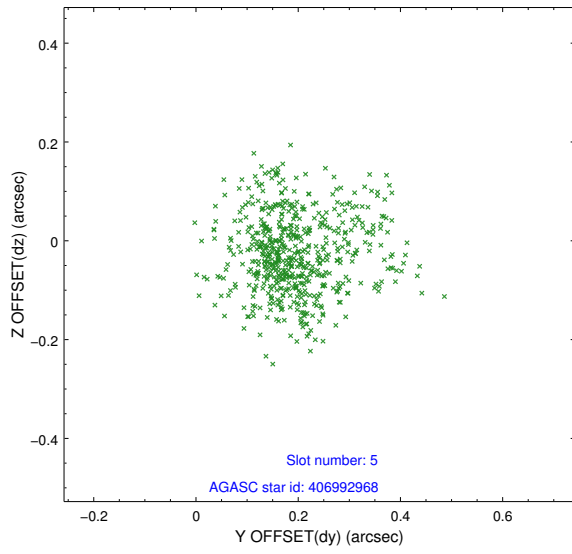
2.4.1 Slot 3



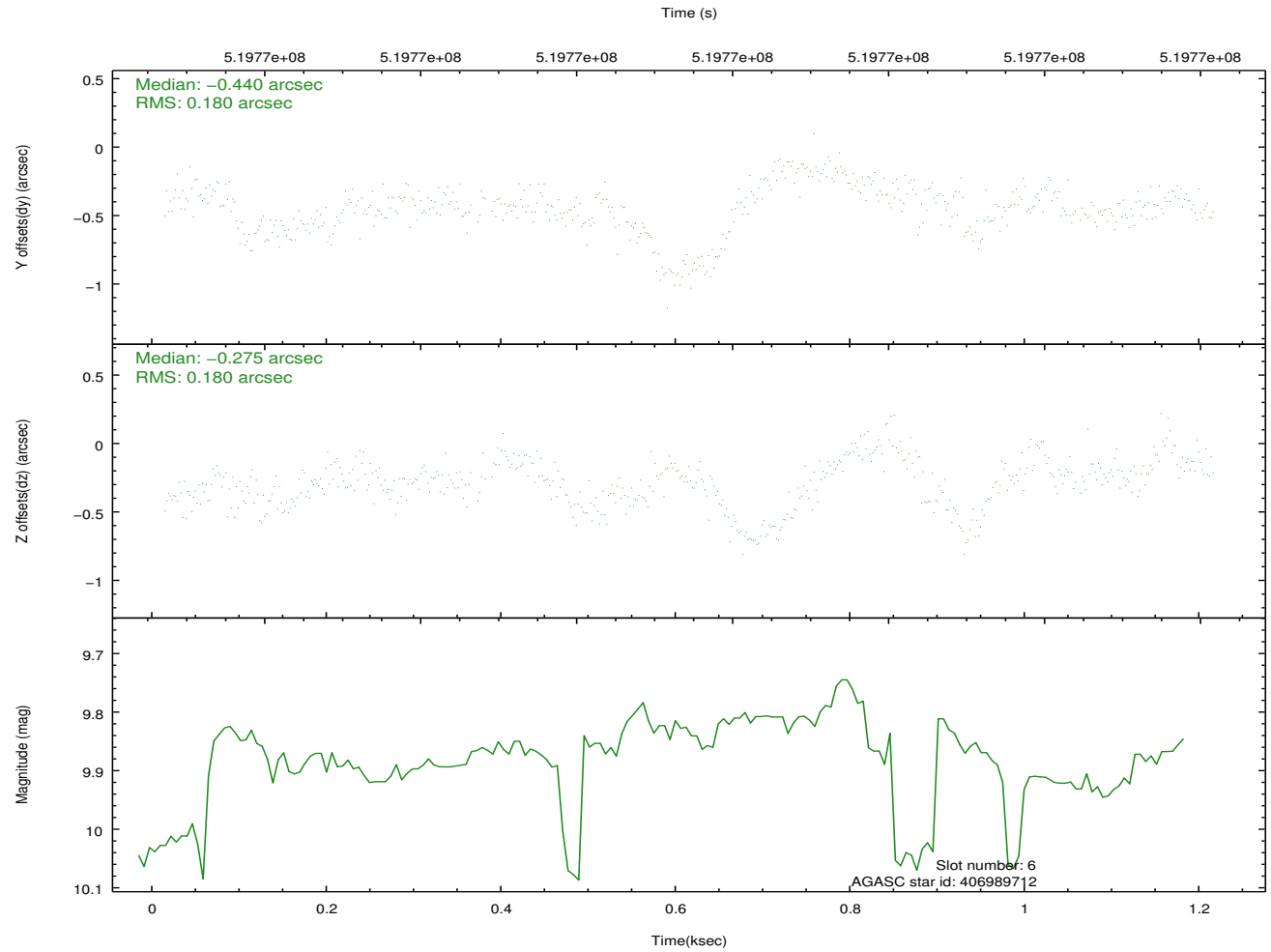
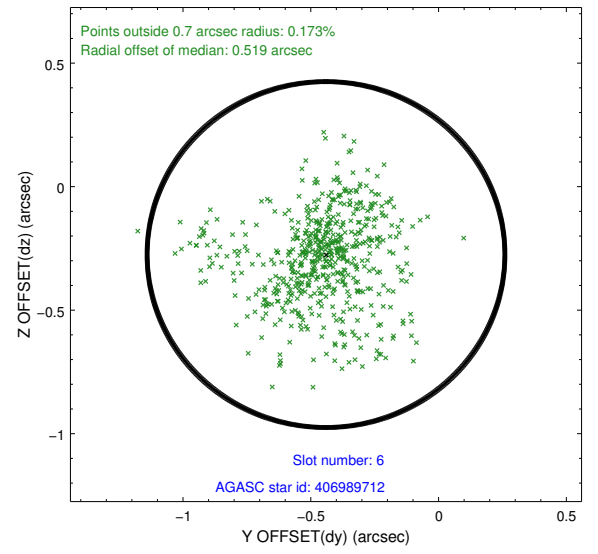
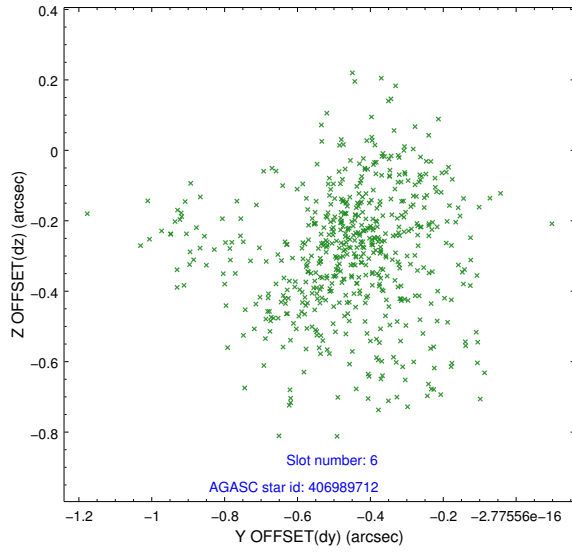
2.4.2 Slot 4



2.4.3 Slot 5

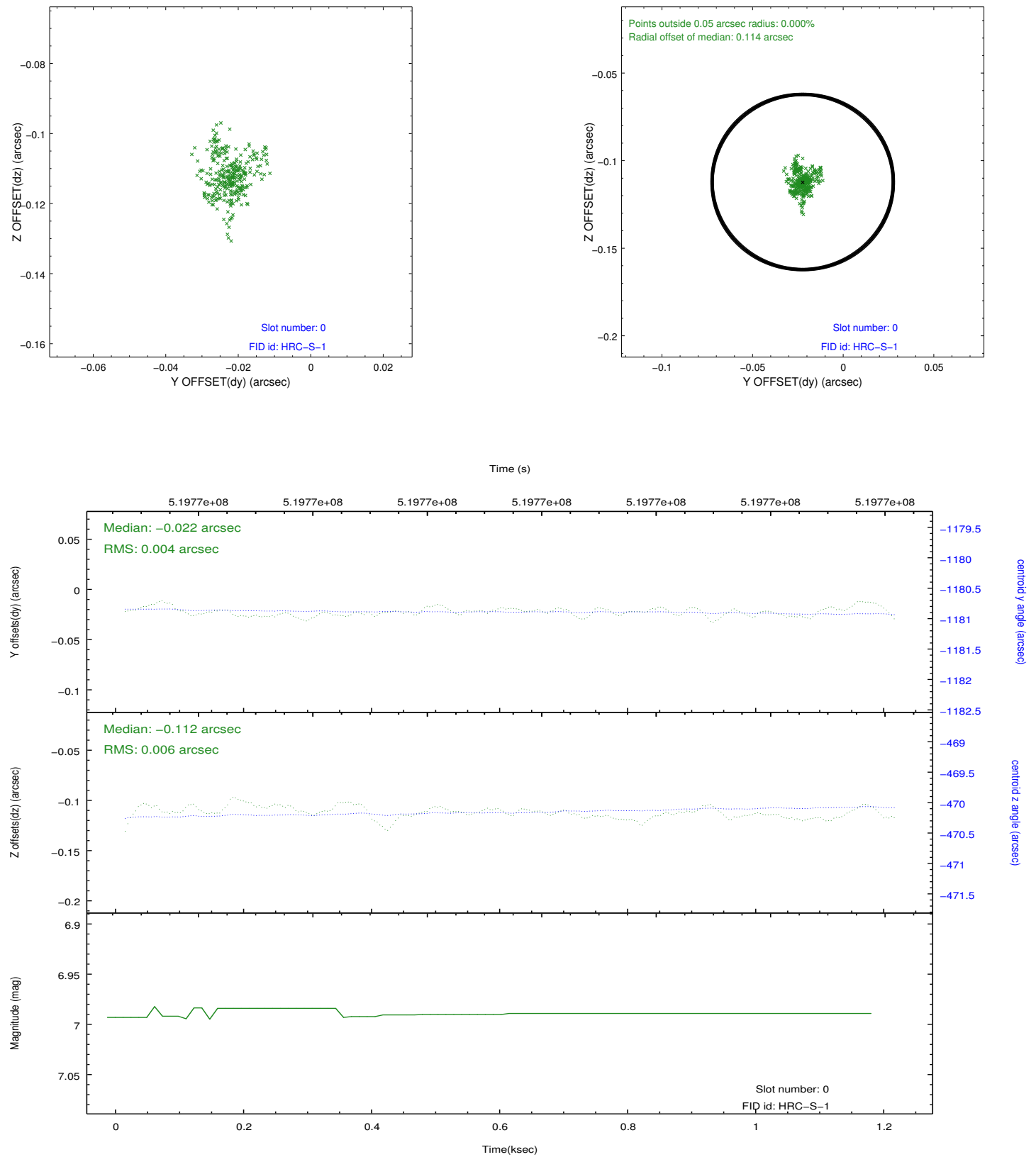


2.4.4 Slot 6

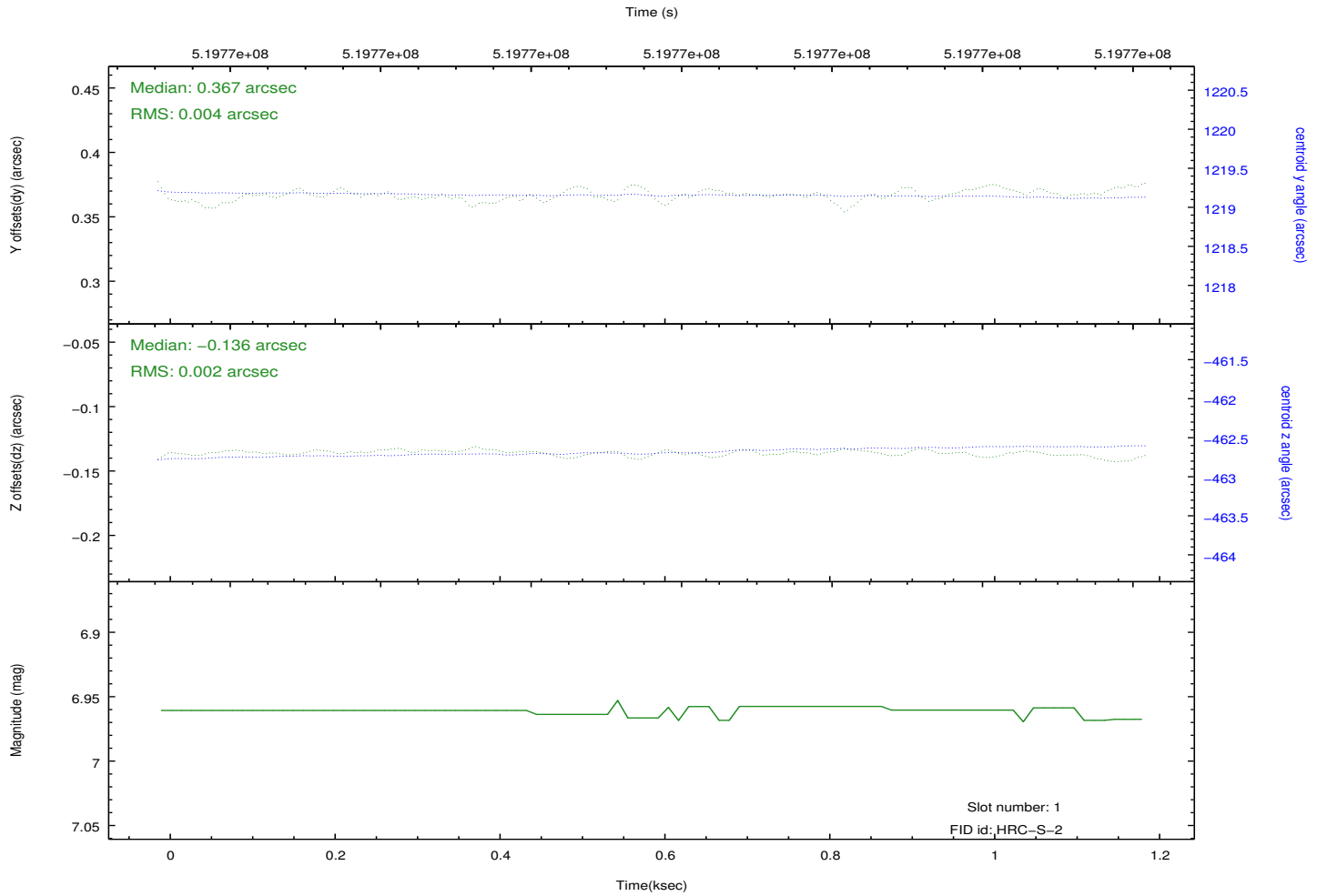
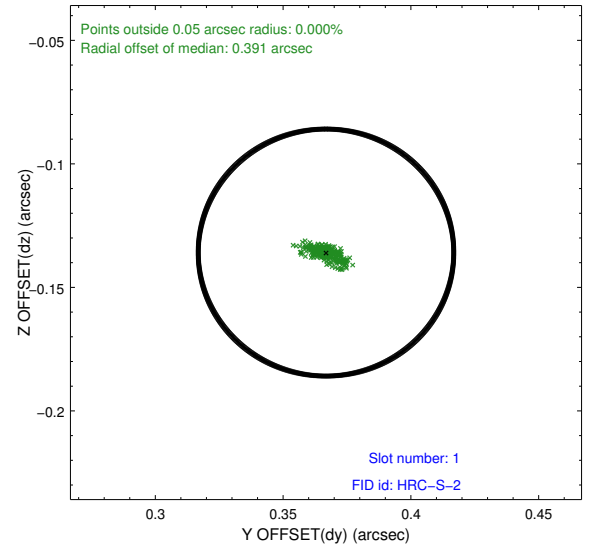
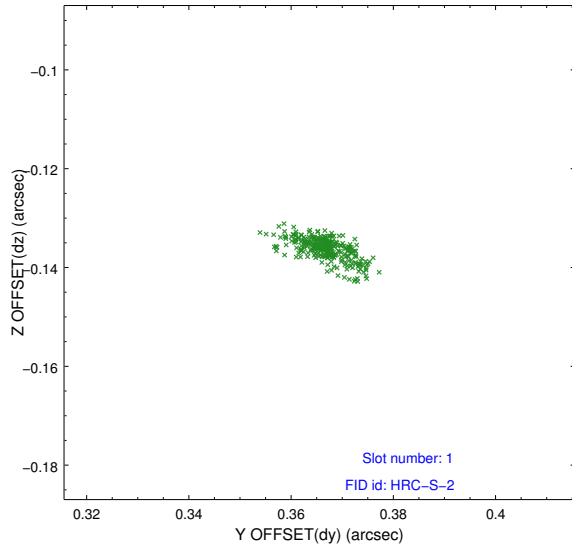


2.5 FID Slots

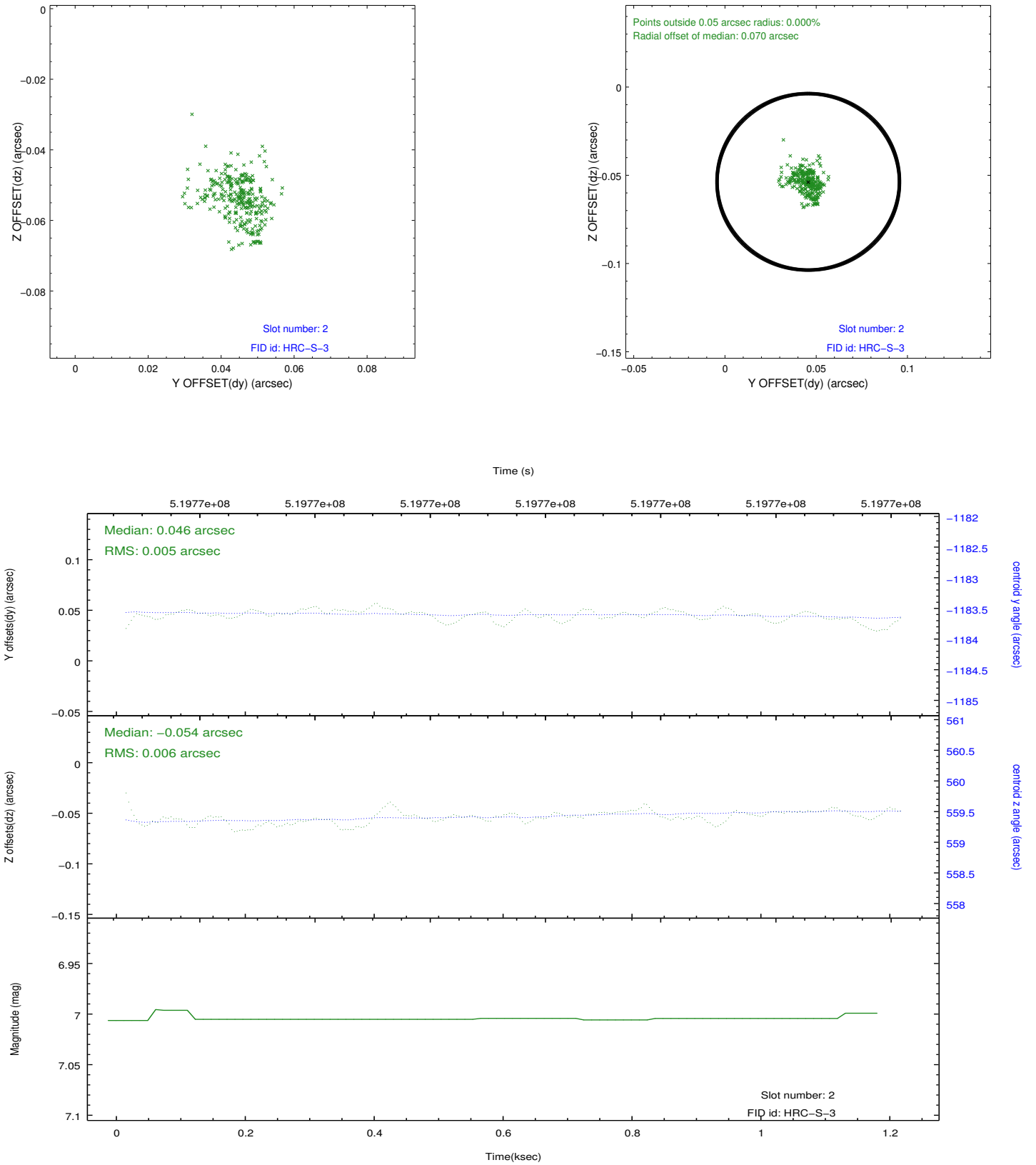
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.2005313164592

A.2 Comments

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.

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Window constraint met.

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These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.