

V&V Reference Report

L2 ASCDS Version : 10

Observation 15442 - L2 Version 2
Chandra X-Ray Center

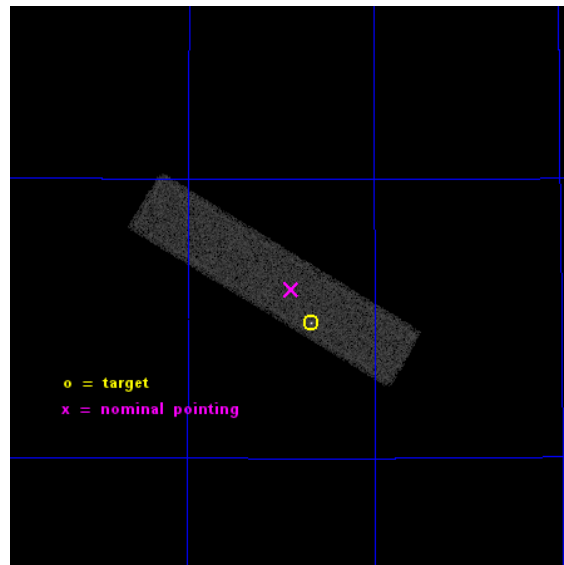
L2 Processing Date : Dec 6 2014

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1 Front

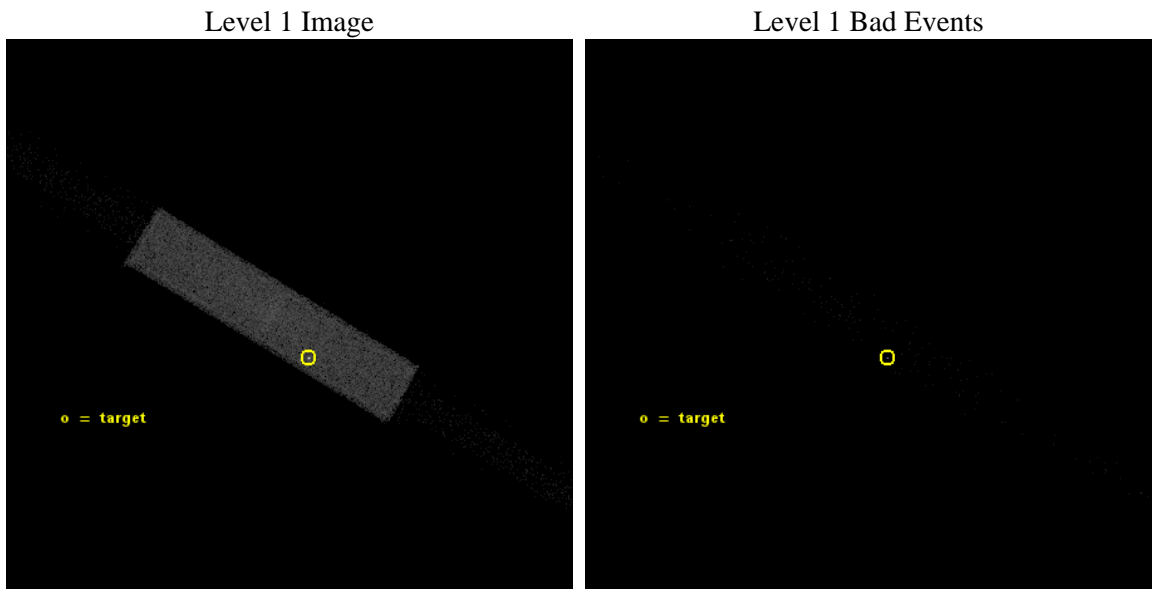
seq_num	291121	Sequence number
obs_id	15442	Observation id
title	AO-14 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.22200442732	Nominal RA [deg]
dec_nom	45.802561863712	Nominal Dec [deg]
roll_nom	210.34176998462	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1158.2500633001	[s]
livetime	1151.7290394092	Ontime multiplied by DTCOR
l2events	46029	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	1158.2500633001	[s]
caldsver	4.6.4	 	l1events	68429	Number of level 1 events
date	2014-12-06T14:40:01	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

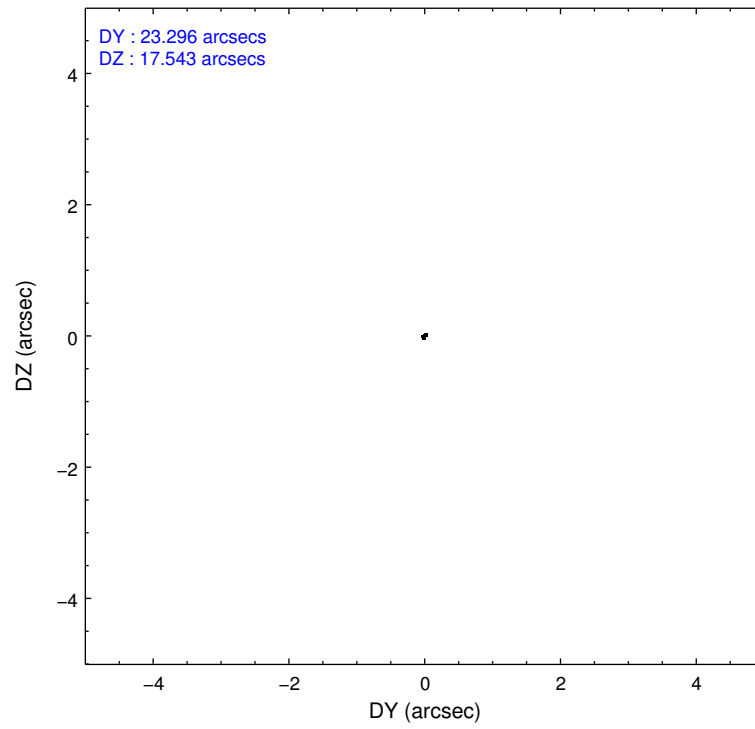
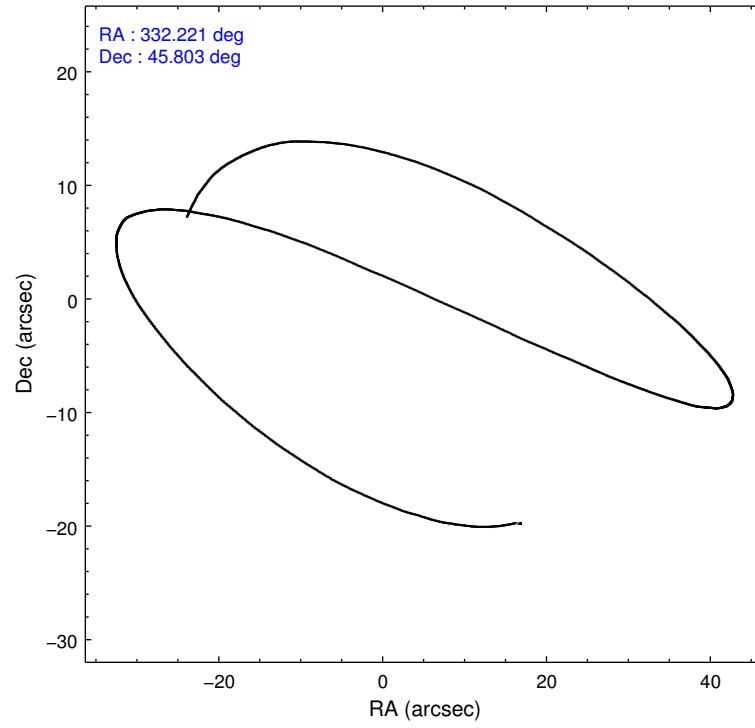
	segment 1	segment 2	segment 3
level 1 events	646	67141	642
rejected events	646	10969	642
rejected %	100%	16%	100%

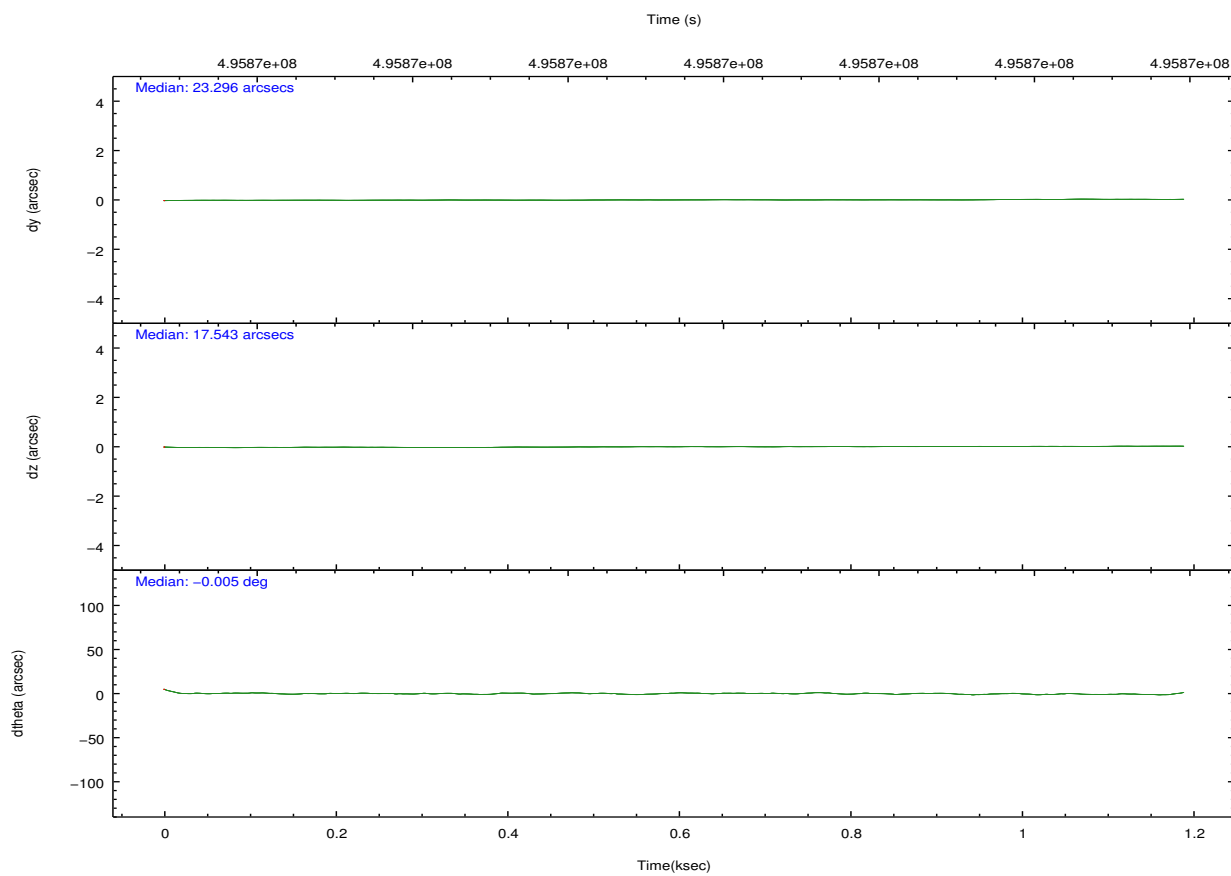
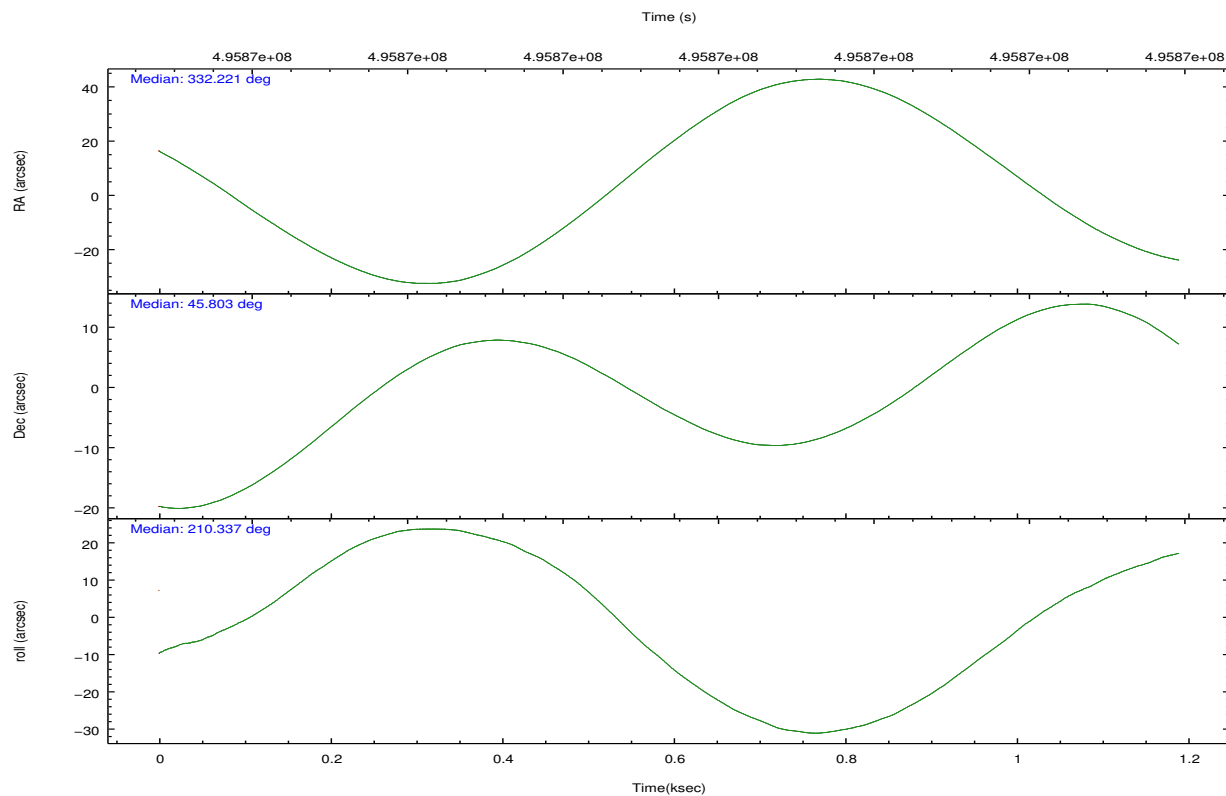
2.2 Compared Parameters

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	332.241052	332.2220044273164
[deg] Pointing Dec	45.827991	45.80256186371237
[deg] Pointing Roll	210.260751	210.341769984622
[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)	495866332.184000	495865956.54796
Observation start date	2013-09-18T04:37:45	2013-09-18T04:32:36
[s] Observation end time (MET)	495867332.184000	495867509.42305
Observation end date	2013-09-18T04:54:25	2013-09-18T04:58:29

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

2.3 Aspect



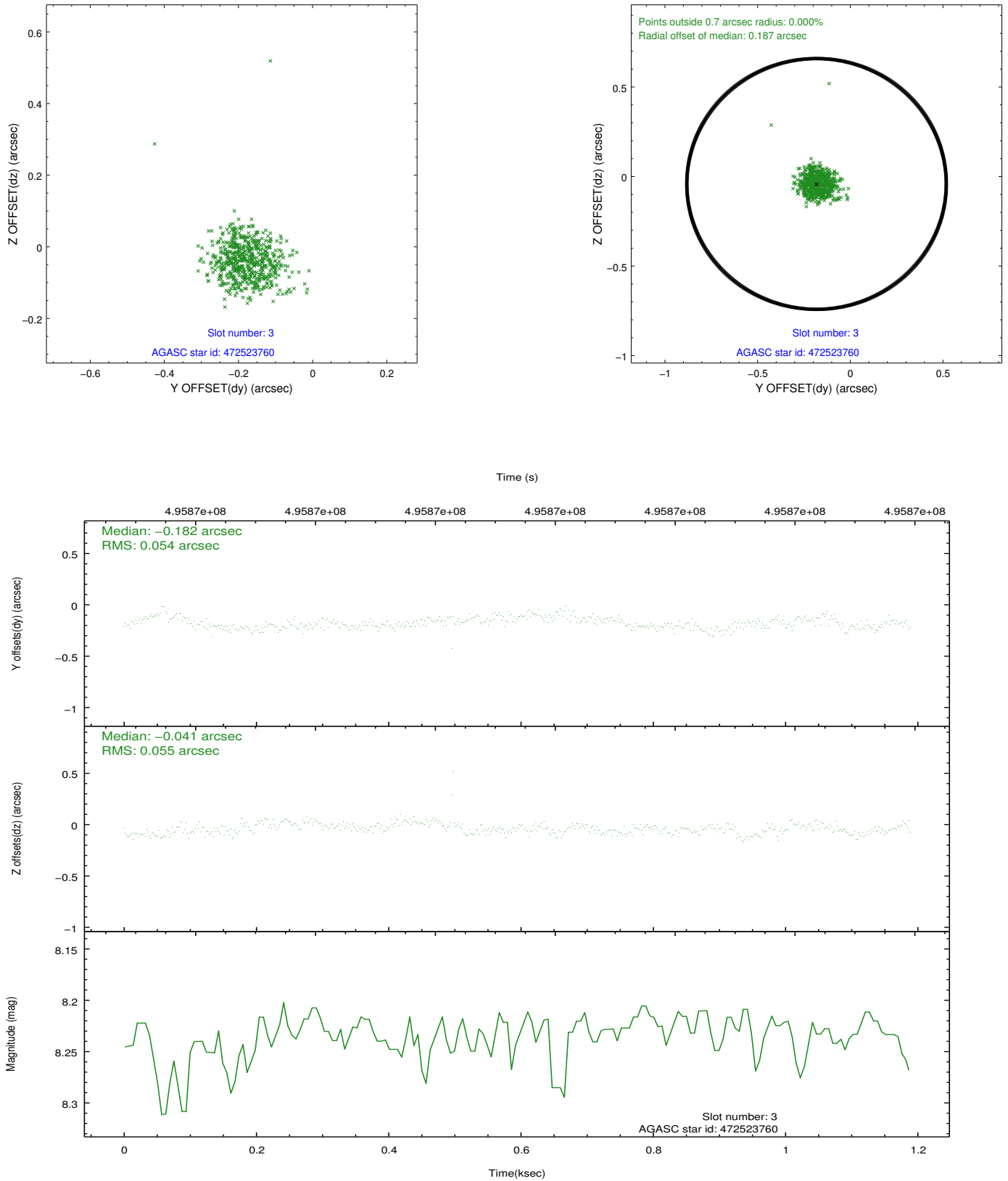


Slot Statistics

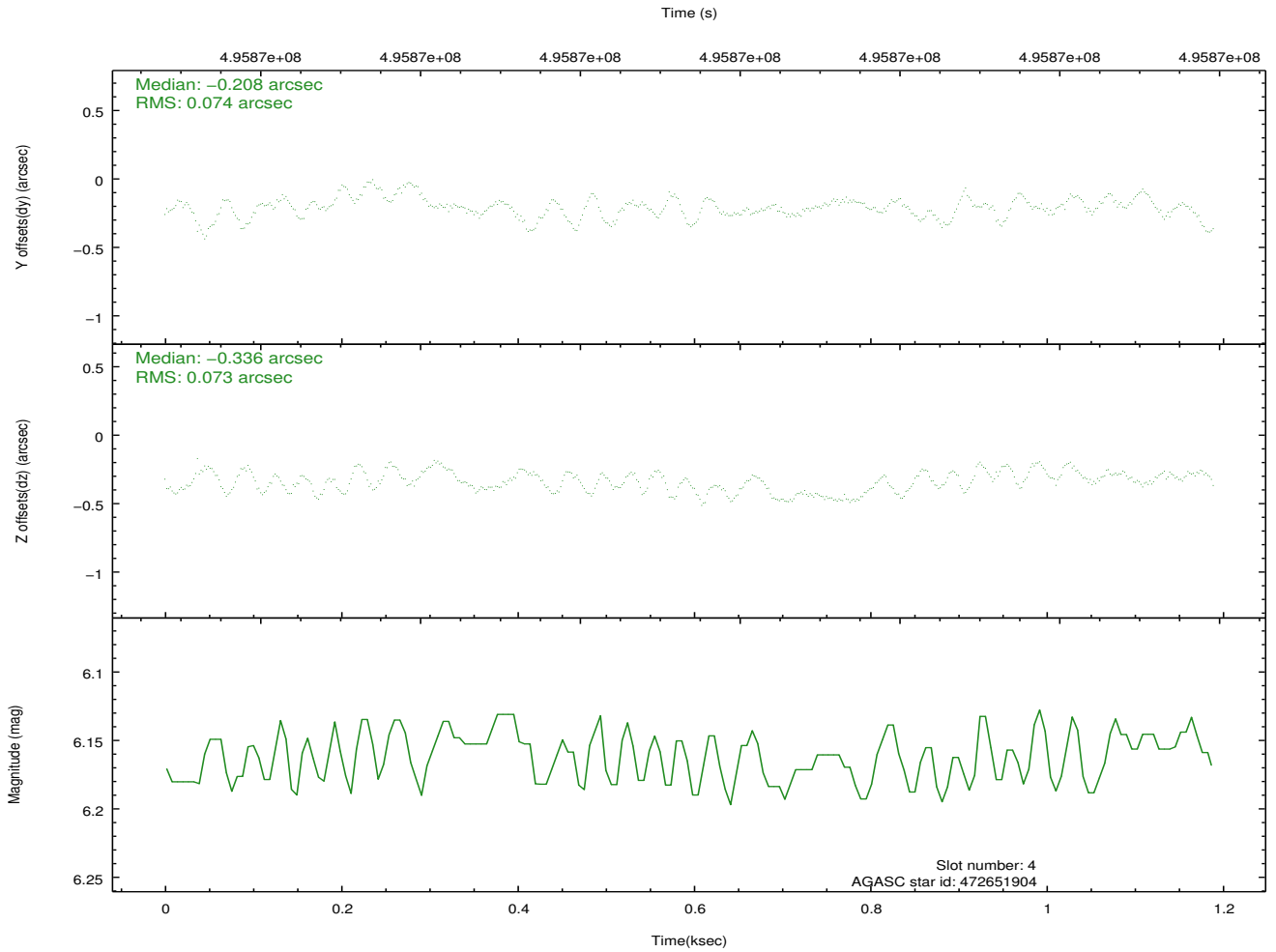
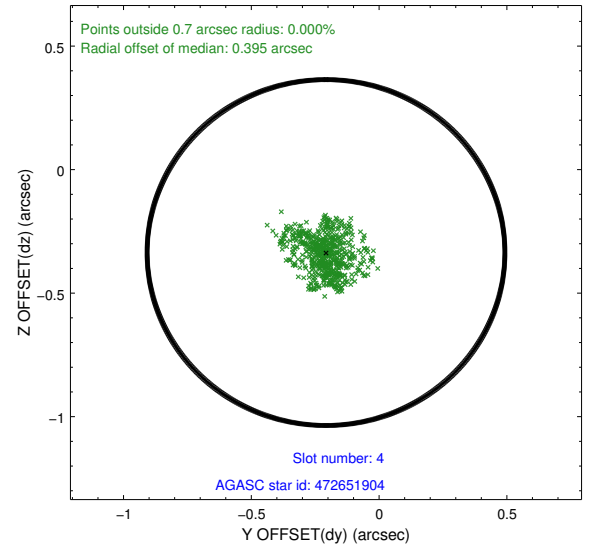
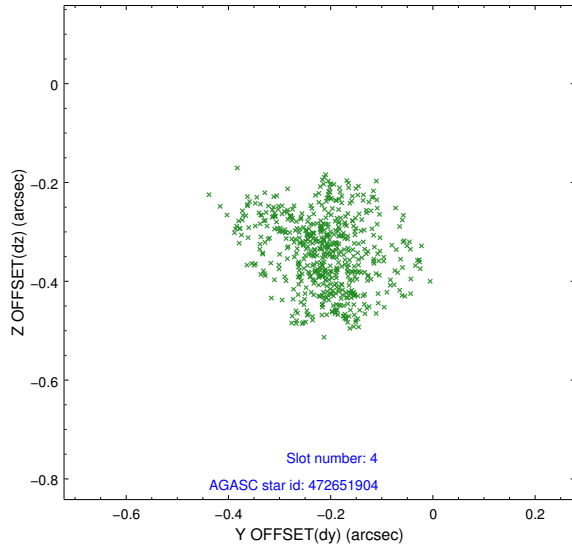
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-2	7.00	291	0.119	-0.166	0.009	0.018	0.000000	0.000000	1221.80	-459.10
1	FID		HRC-S-3	7.03	291	-0.031	-0.105	0.006	0.011	0.000000	0.000000	-1176.56	561.47
2	FID		HRC-S-4	6.95	291	0.318	-0.025	0.009	0.018	0.000000	0.000000	1216.50	567.69
3	GUIDE	used	472523760	8.23	581	-0.182	-0.041	0.077	0.122	331.645363	45.403260	2067.87	558.73
4	GUIDE	used	472651904	6.16	581	-0.208	-0.336	0.117	0.173	332.170077	45.742257	312.84	177.84
5	GUIDE	used	472655152	9.42	575	0.138	-0.165	0.184	0.287	332.504239	45.862991	-633.66	224.47
6	GUIDE	used	472665256	9.00	581	0.286	0.208	0.096	0.153	332.808125	46.195041	-1890.03	-431.67
7	GUIDE	used	472535576	7.87	580	-0.030	0.342	0.088	0.140	331.438373	46.291802	874.84	-2455.98

2.4 Star Slots

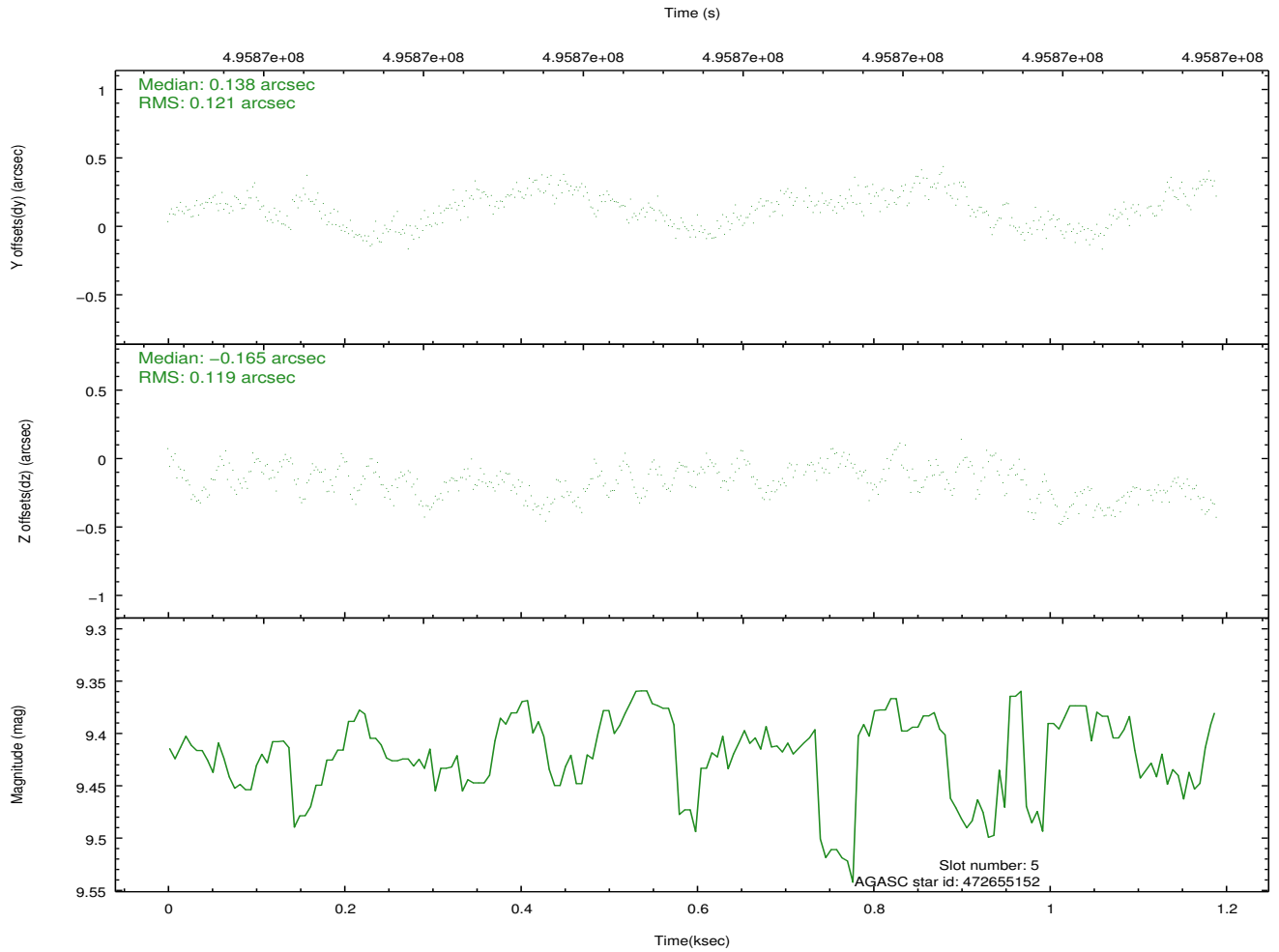
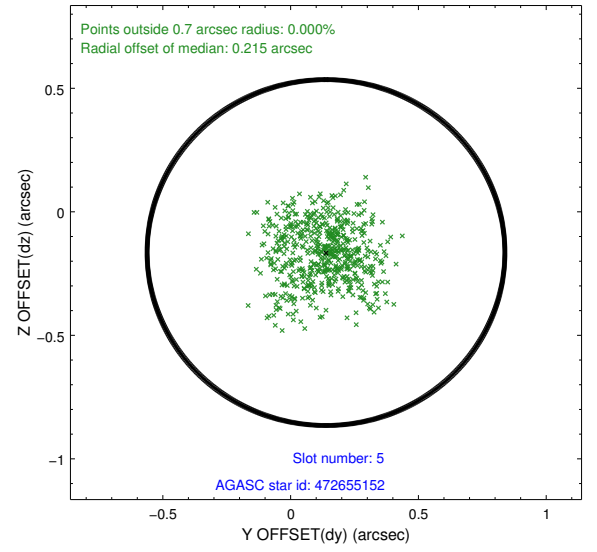
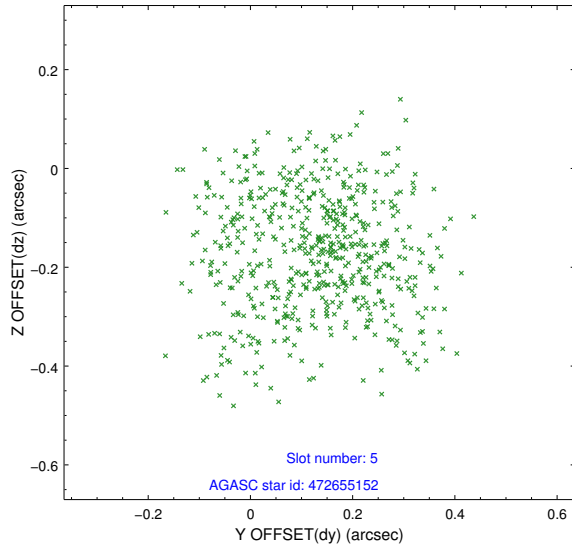
2.4.1 Slot 3



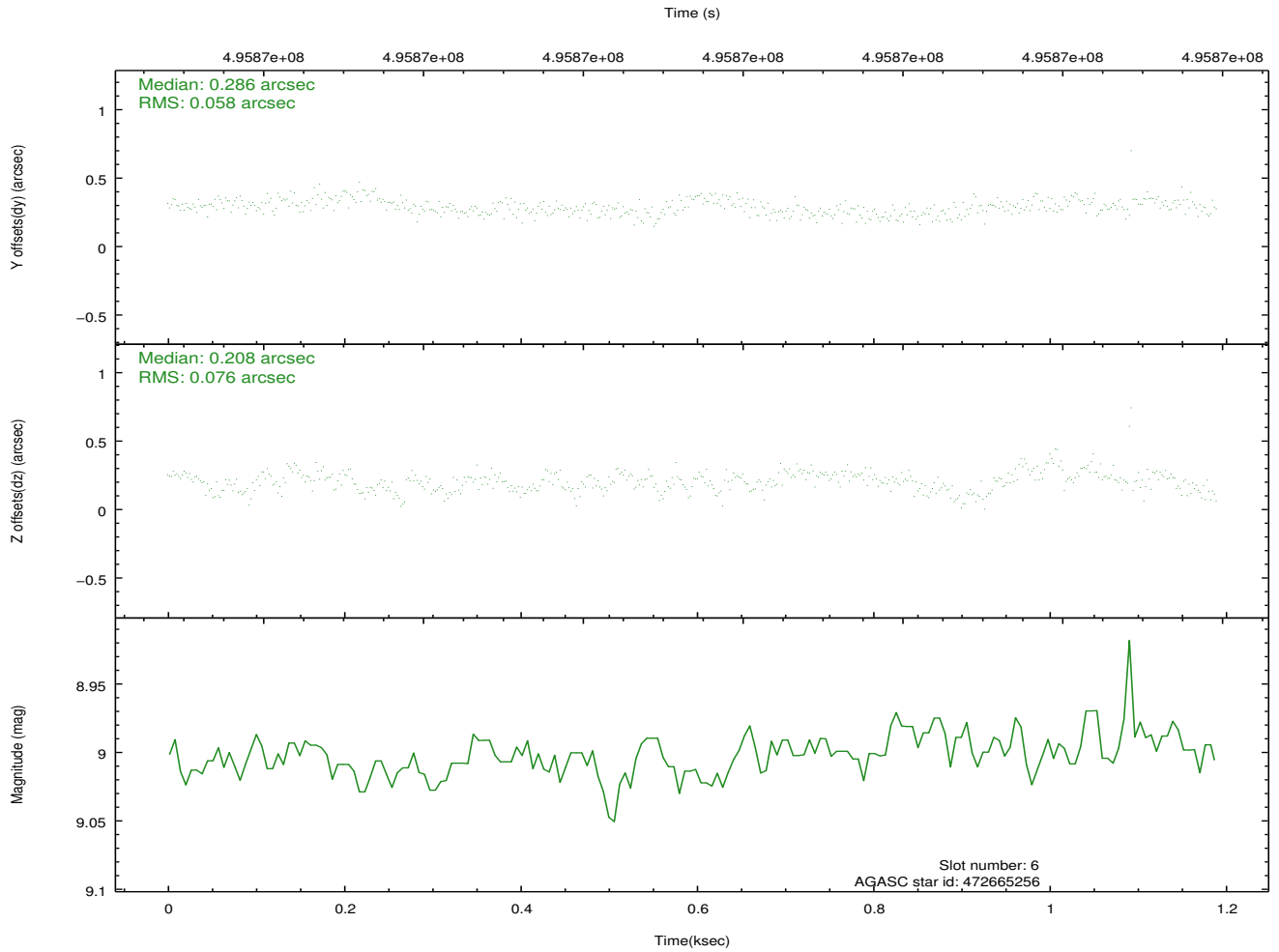
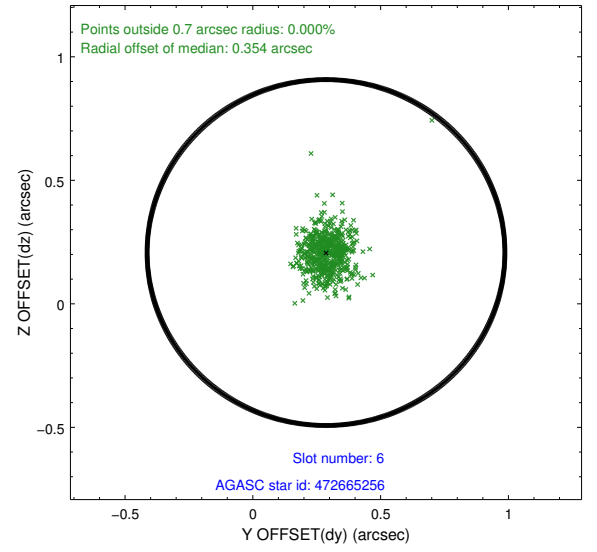
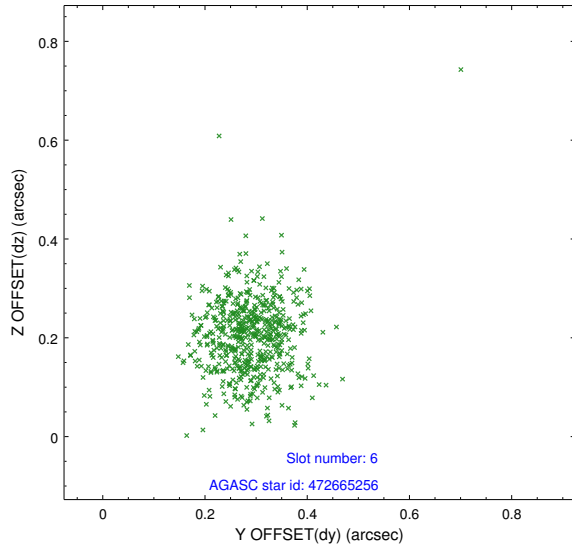
2.4.2 Slot 4



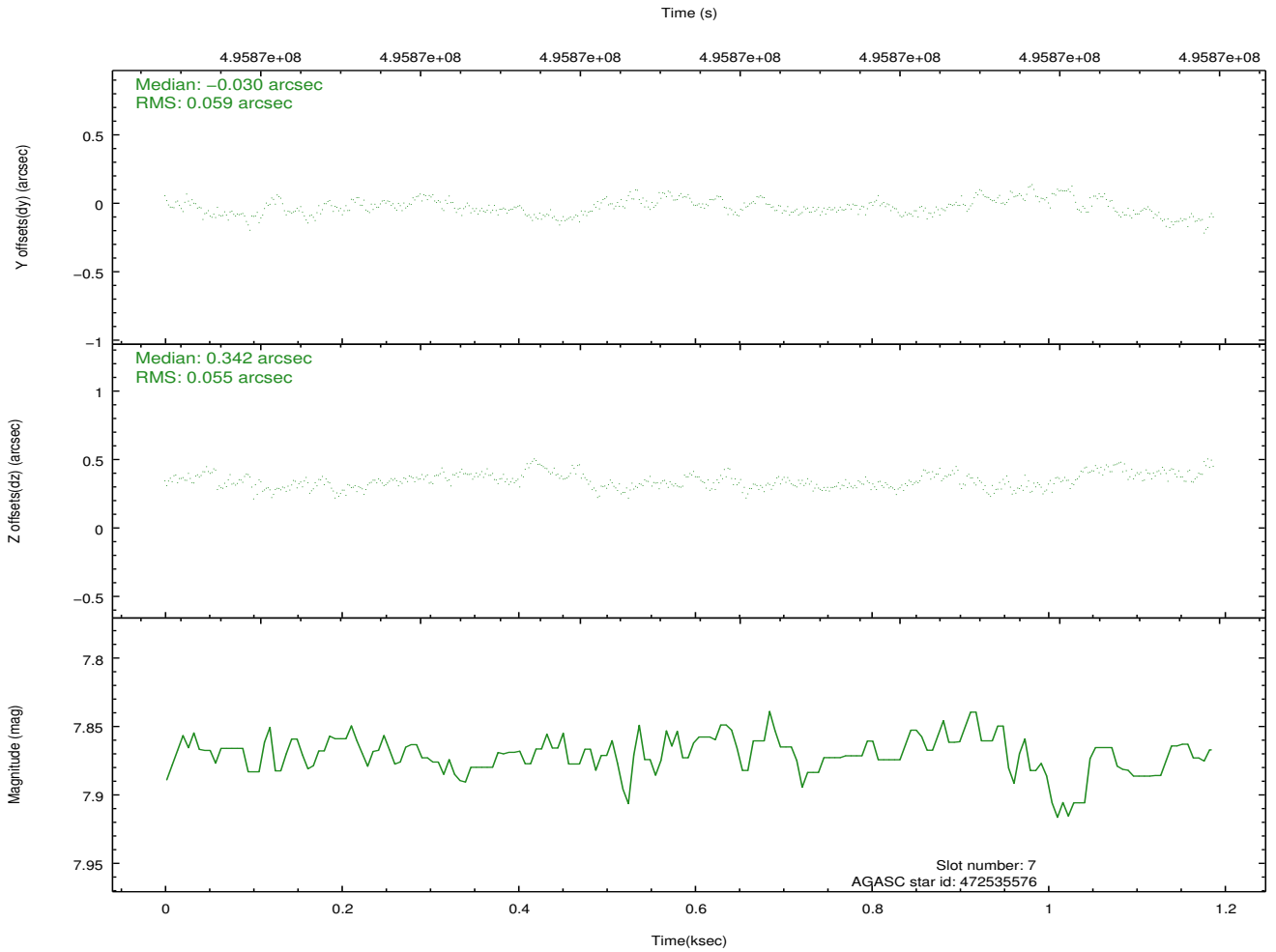
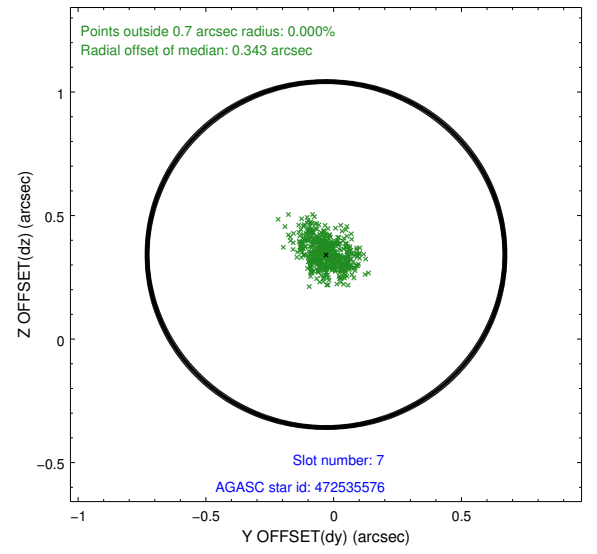
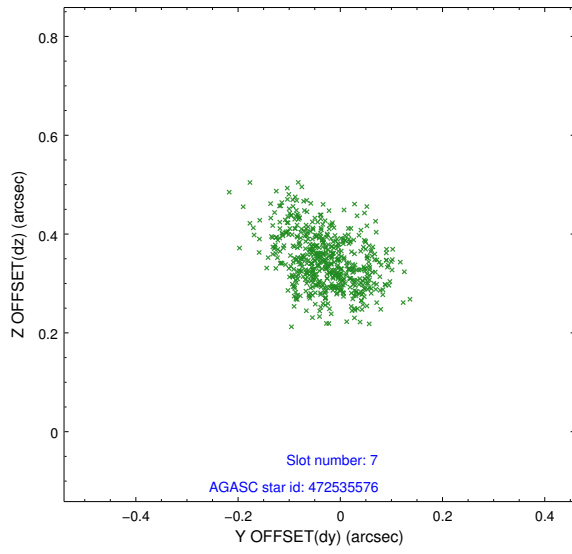
2.4.3 Slot 5



2.4.4 Slot 6

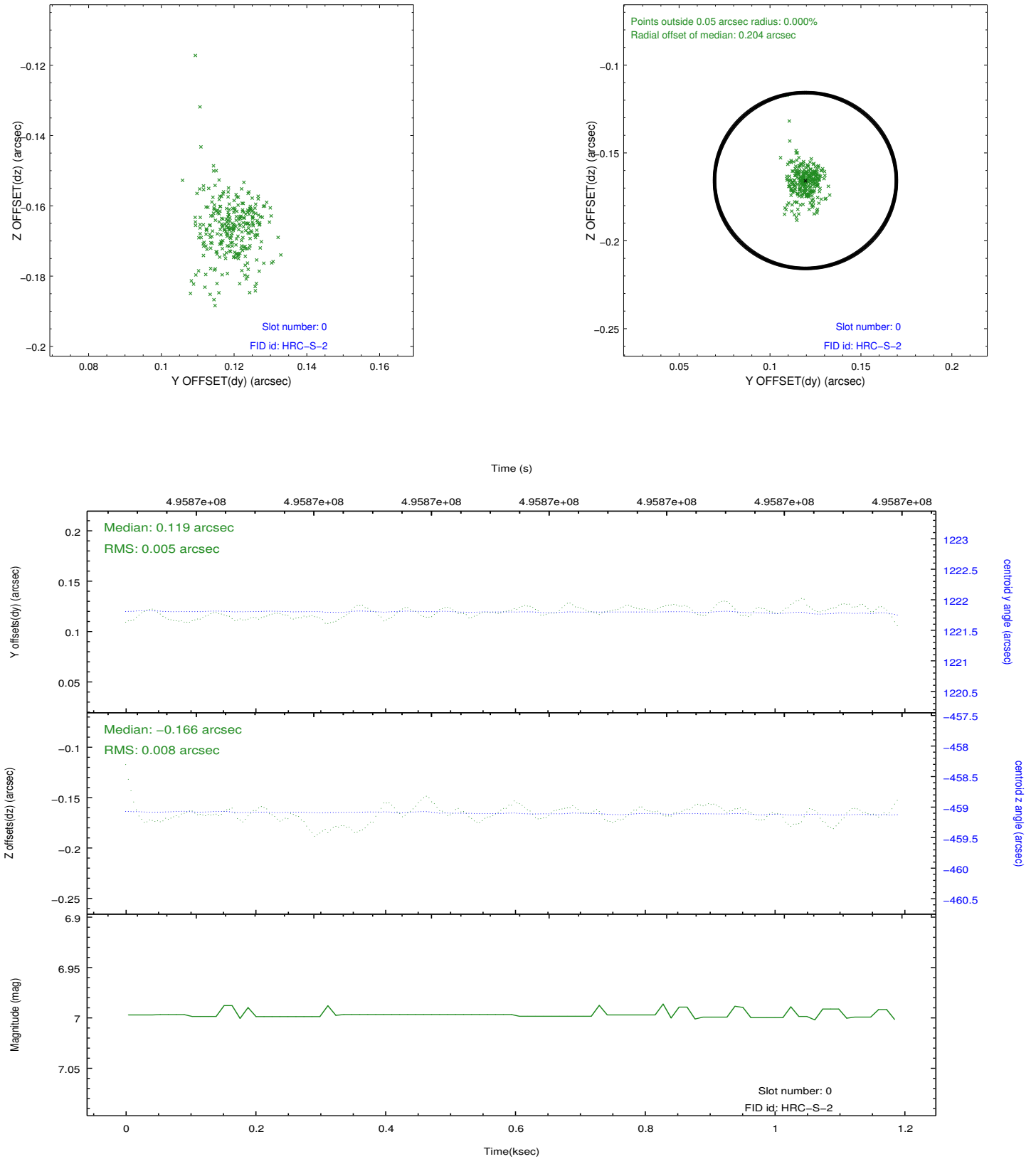


2.4.5 Slot 7

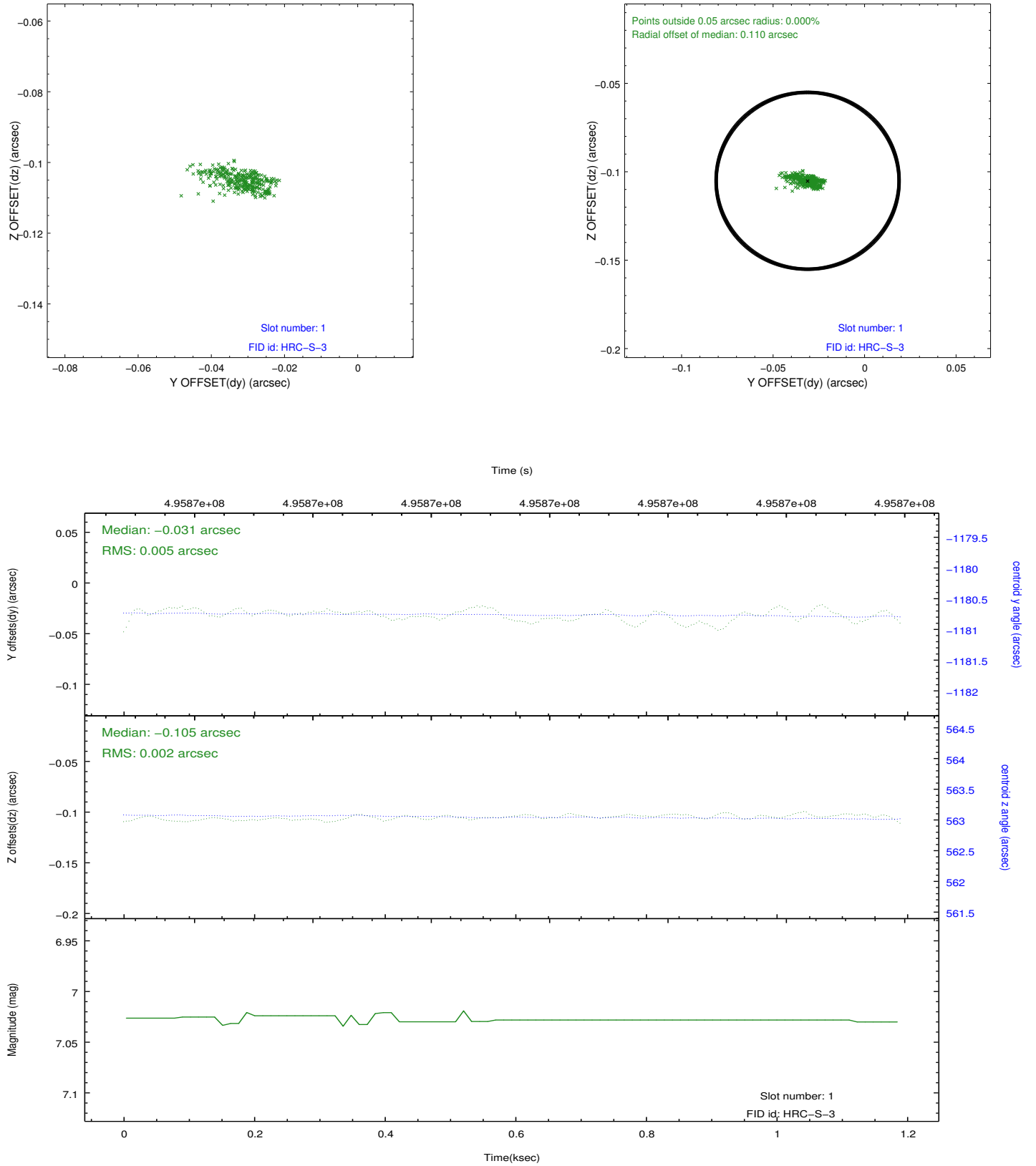


2.5 FID Slots

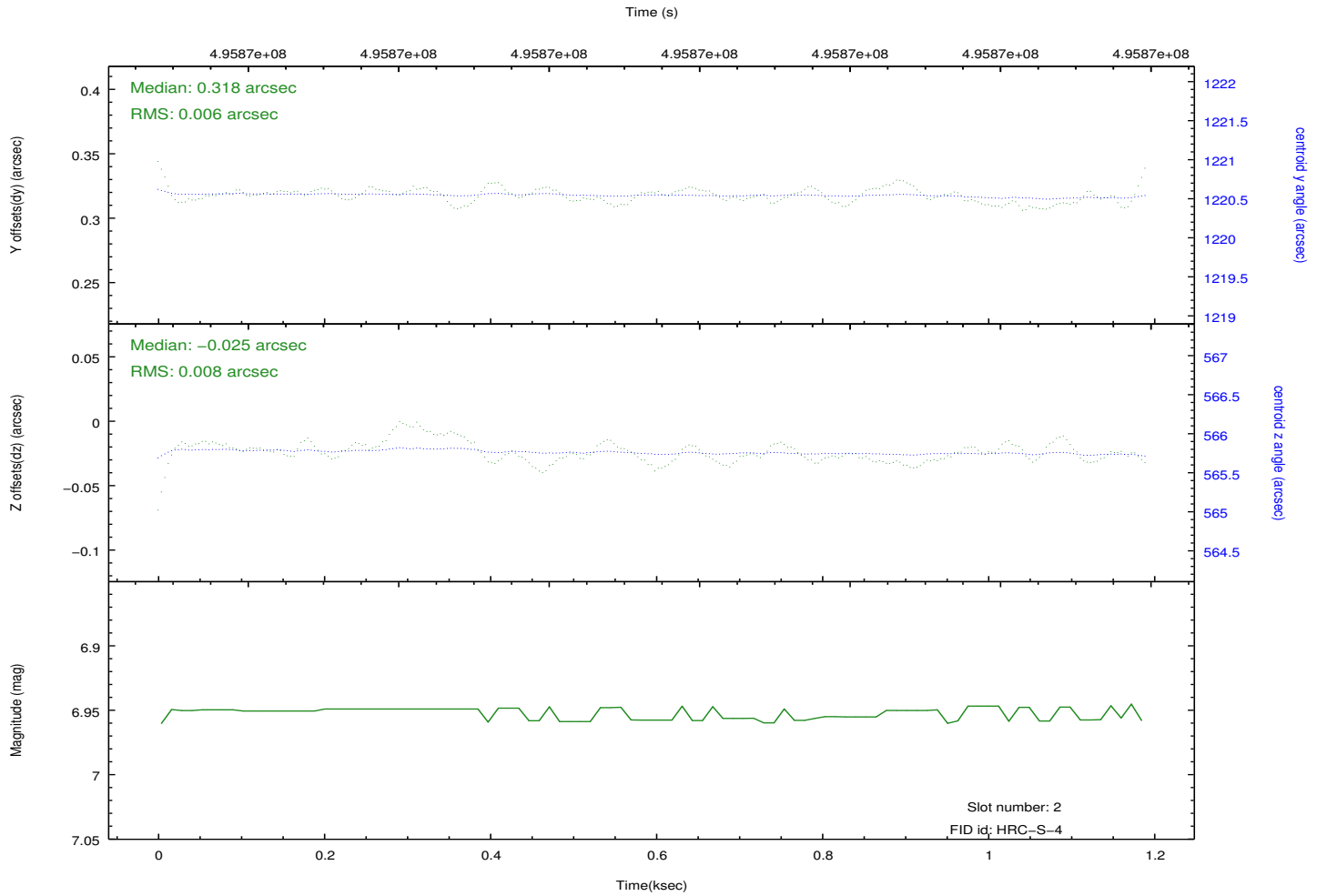
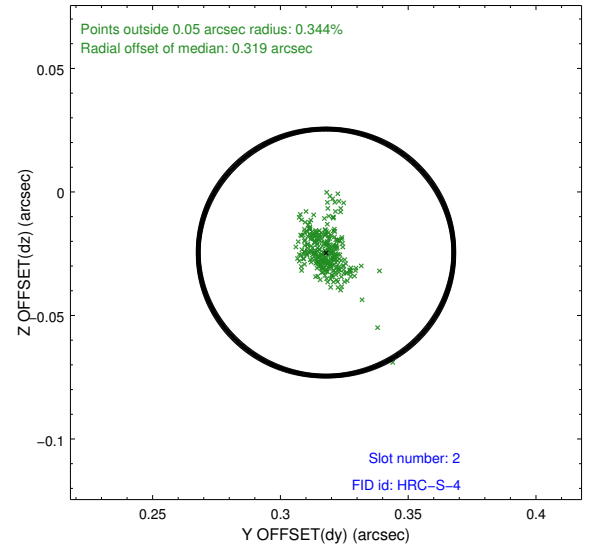
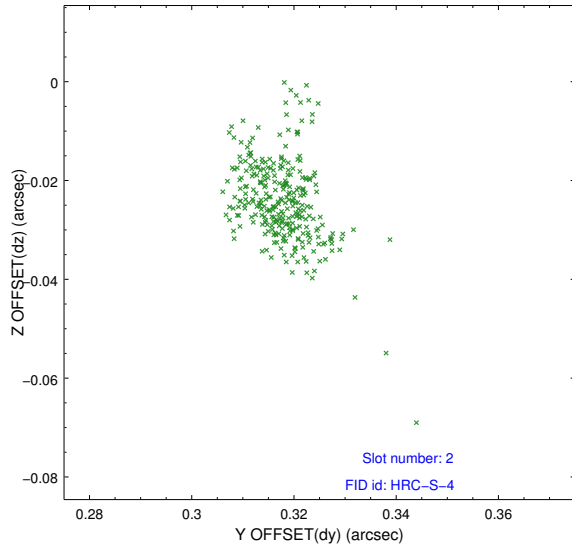
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1582500633001

A.2 Comments

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.