

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19837 - L2 Version 1
Chandra X-Ray Center

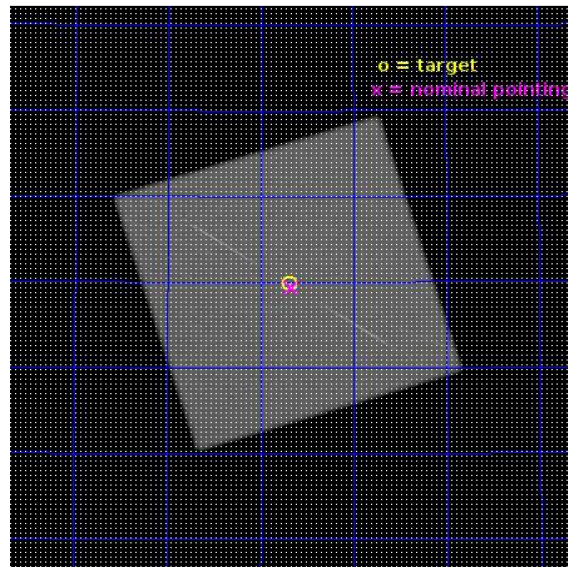
L2 Processing Date : Dec 28 2016

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1 Front

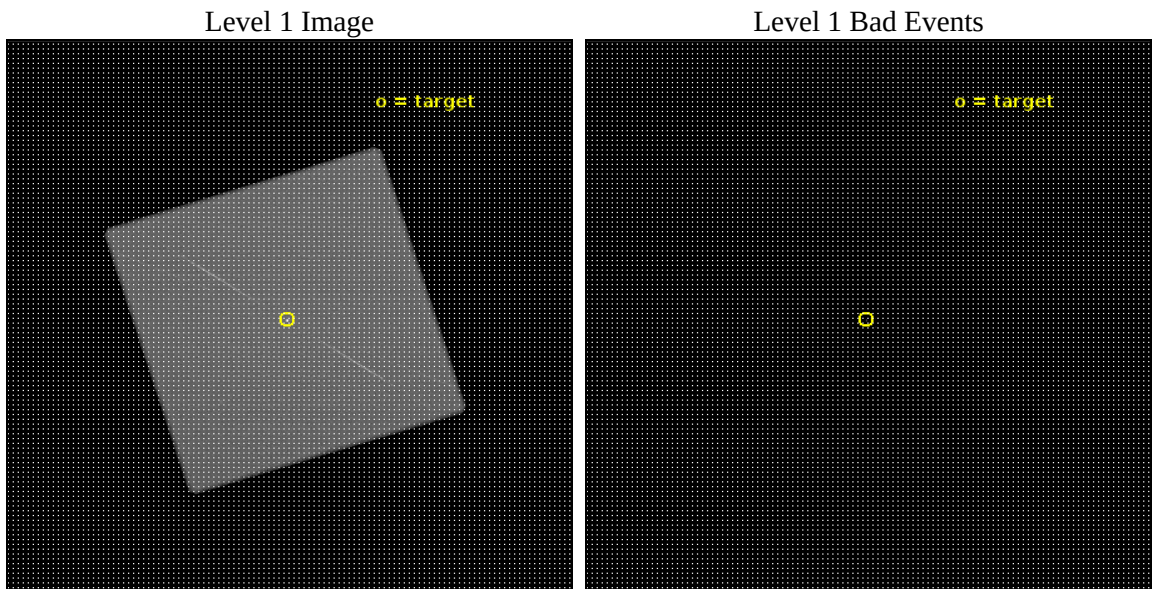
seq_num	291354	Sequence number
obs_id	19837	Observation id
title	HETG/HRC-I Observation of Capella	Proposal title
observer	CXC Calibration	Principal investigator
object	Capella	Source name
ra_targ	79.172917	Observer's specified target RA [deg]
dec_targ	45.996389	Observer's specified target Dec [deg]
ra_nom	79.166524453399	Nominal RA [deg]
dec_nom	45.98910689763	Nominal Dec [deg]
roll_nom	207.46411406211	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19676.92613852	[s]
livetime	19449.254774326	Ontime multiplied by DTCOR
l2events	1907391	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	19500.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	19676.92613852	[s]
caldbver	4.7.3	 	l1events	2641296	Number of level 1 events
date	2016-12-28T05:38:42	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(16260.63, 16575.71)	src1a sky pixel position

2.1.3 Events

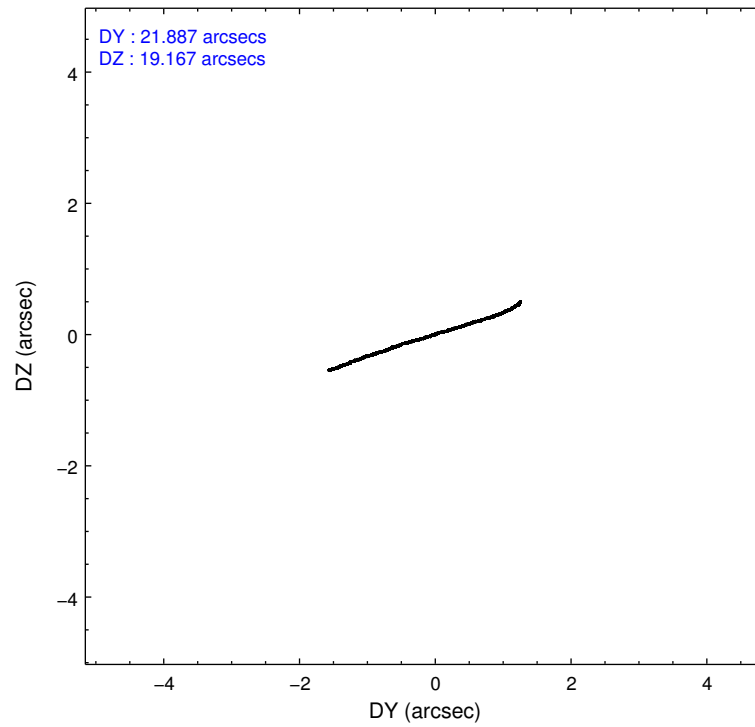
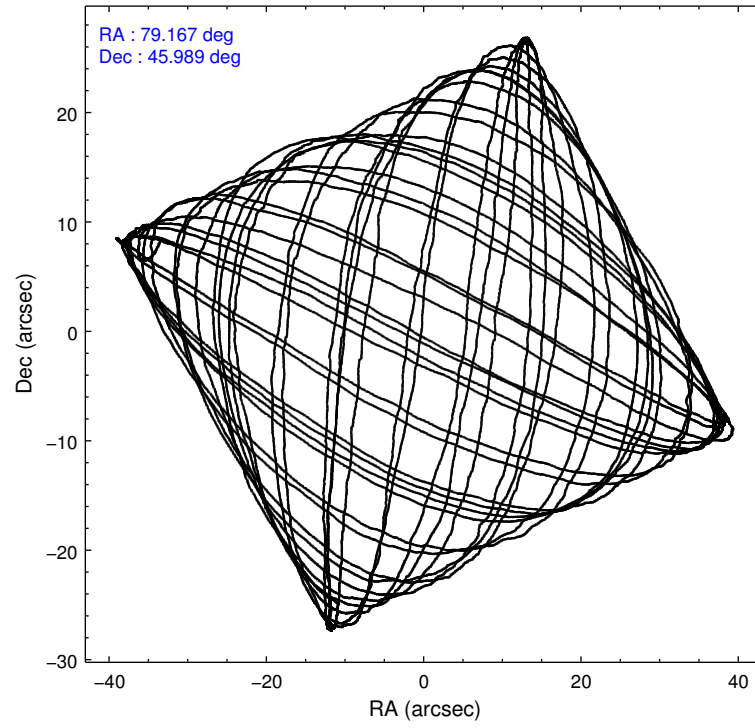
Level 1 Events

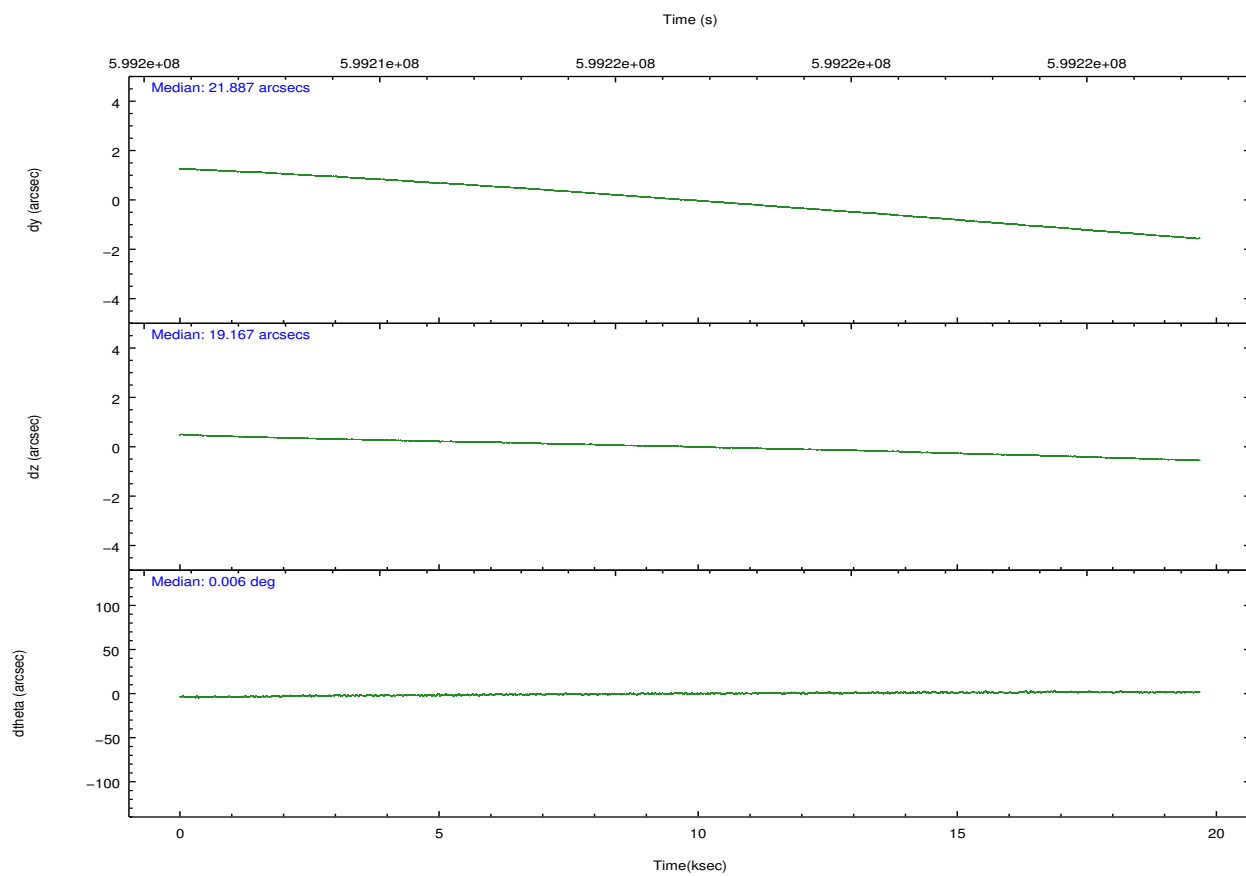
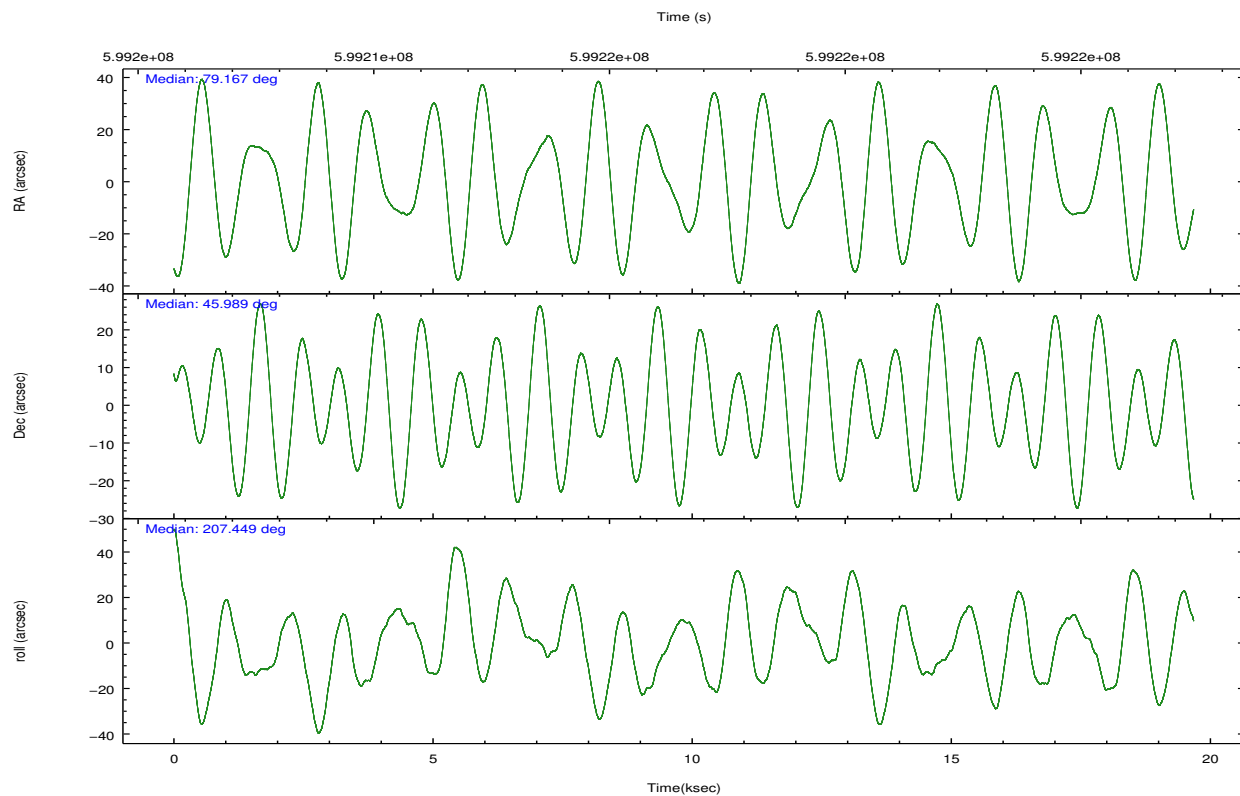
	segment 0
level 1 events	2641296
rejected events	112470
rejected %	4%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	79.186995	79.16652445339948			
[deg] Pointing Dec	46.012418	45.9891068976302			
[deg] Pointing Roll	207.544873	207.4641140621129			
[mm] SIM focus pos	-0.790293	-0.7981816438936875			
[mm] SIM defocus	0.25	0.242110976765187			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	599206894.184000	599205861.40216			
Observation start date	2016-12-27T06:20:26	2016-12-27T06:04:21			
[s] Observation end time (MET)	599226394.184000	599227184.4784			
Observation end date	2016-12-27T11:45:26	2016-12-27T11:59:44			

2.3 Aspect



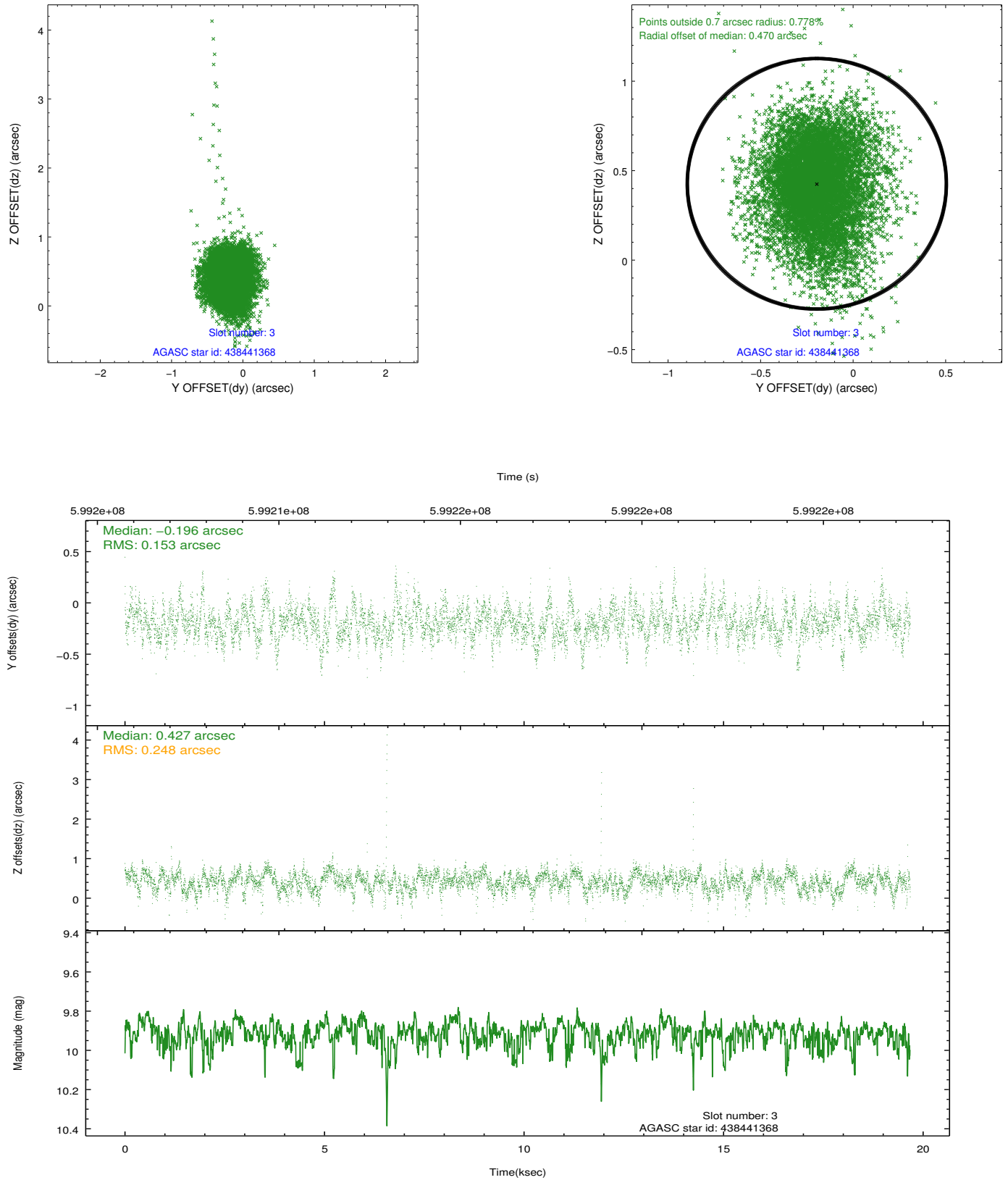


Slot Statistics

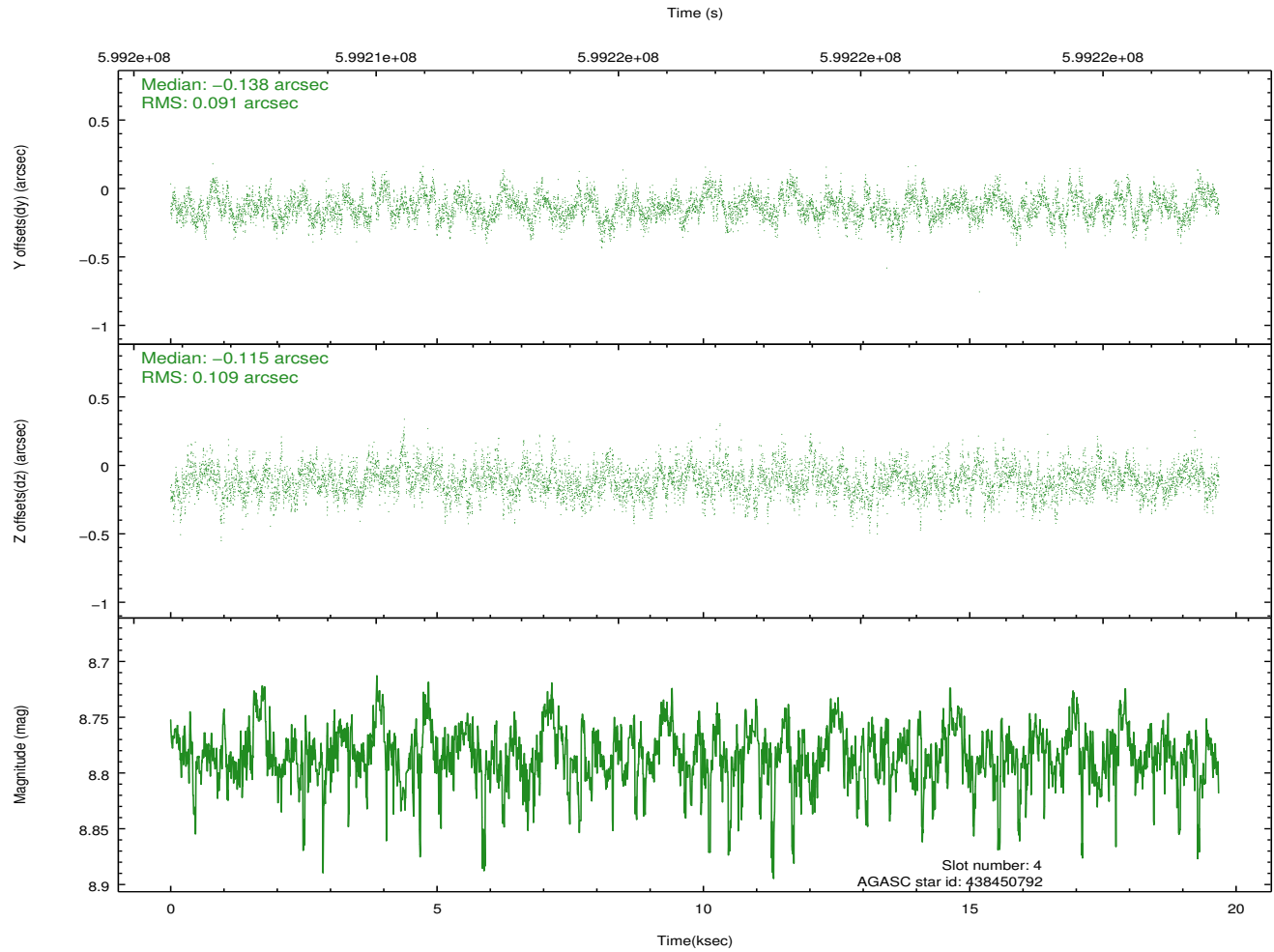
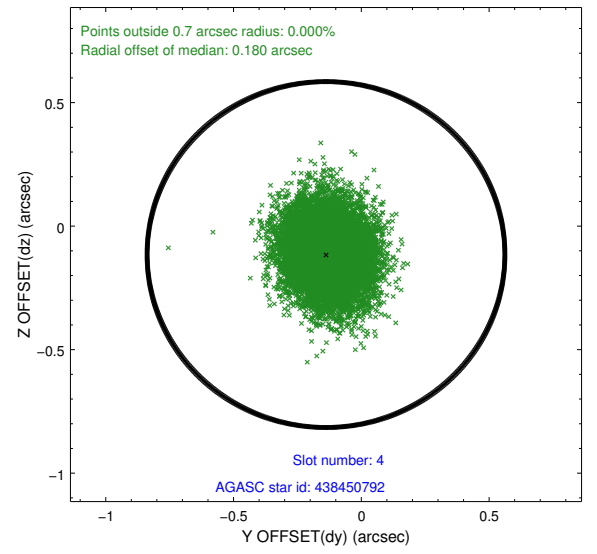
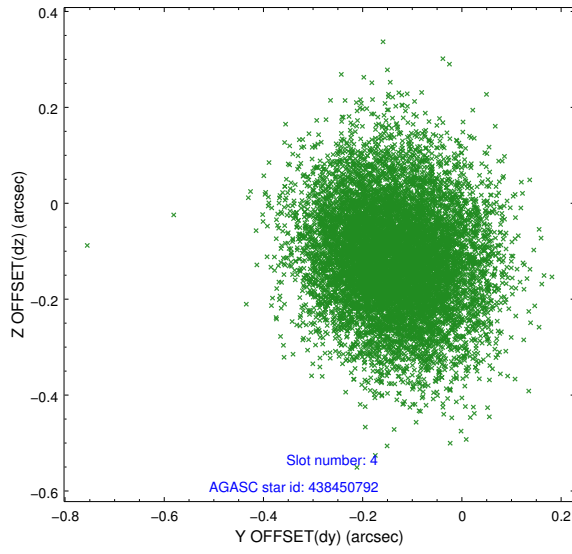
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.01	4799	-0.195	-0.007	0.008	0.014	0.000000	0.000000	-777.97	-1307.44
1	FID		HRC-I-2	7.04	4799	0.310	-0.076	0.011	0.034	0.000000	0.000000	835.04	-1309.27
2	FID		HRC-I-3	7.10	4800	0.004	-0.006	0.011	0.033	0.000000	0.000000	-1206.21	996.89
3	GUIDE	used	438441368	9.91	9517	-0.196	0.427	0.280	0.479	78.646413	46.420494	508.63	-1925.87
4	GUIDE	used	438450792	8.78	9595	-0.138	-0.115	0.151	0.246	78.654240	46.382628	556.01	-1794.74
5	GUIDE	used	440150048	7.19	9599	0.094	-0.006	0.145	0.243	79.112838	46.416060	-508.08	-1373.33
6	GUIDE	used	440164960	8.30	9595	0.142	-0.084	0.142	0.241	79.132526	46.140947	-92.77	-471.86
7	GUIDE	used	440145016	9.48	9580	0.086	-0.211	0.238	0.428	80.238026	45.801940	-1996.25	1876.09

2.4 Star Slots

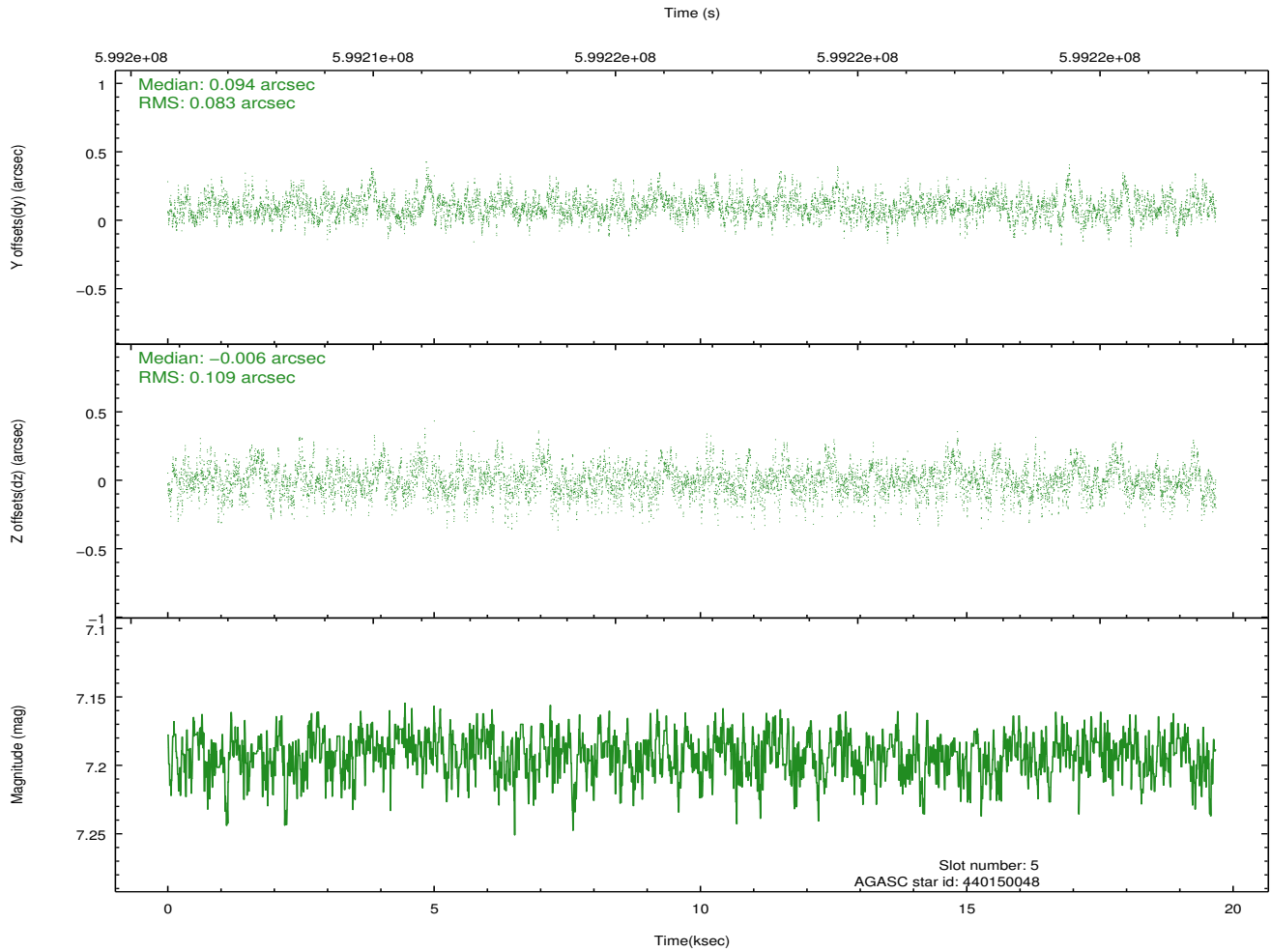
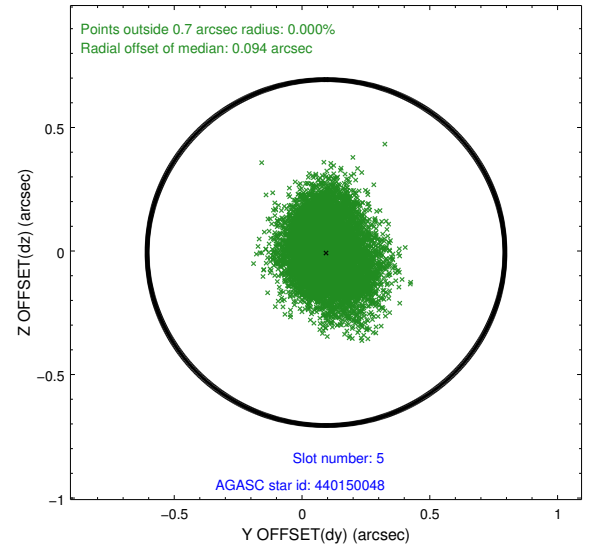
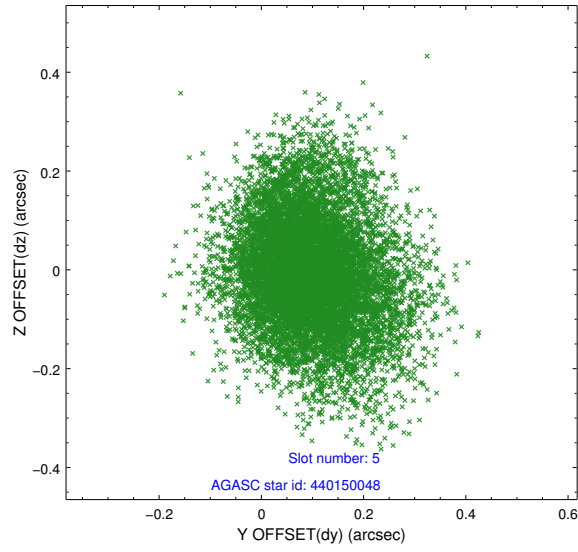
2.4.1 Slot 3



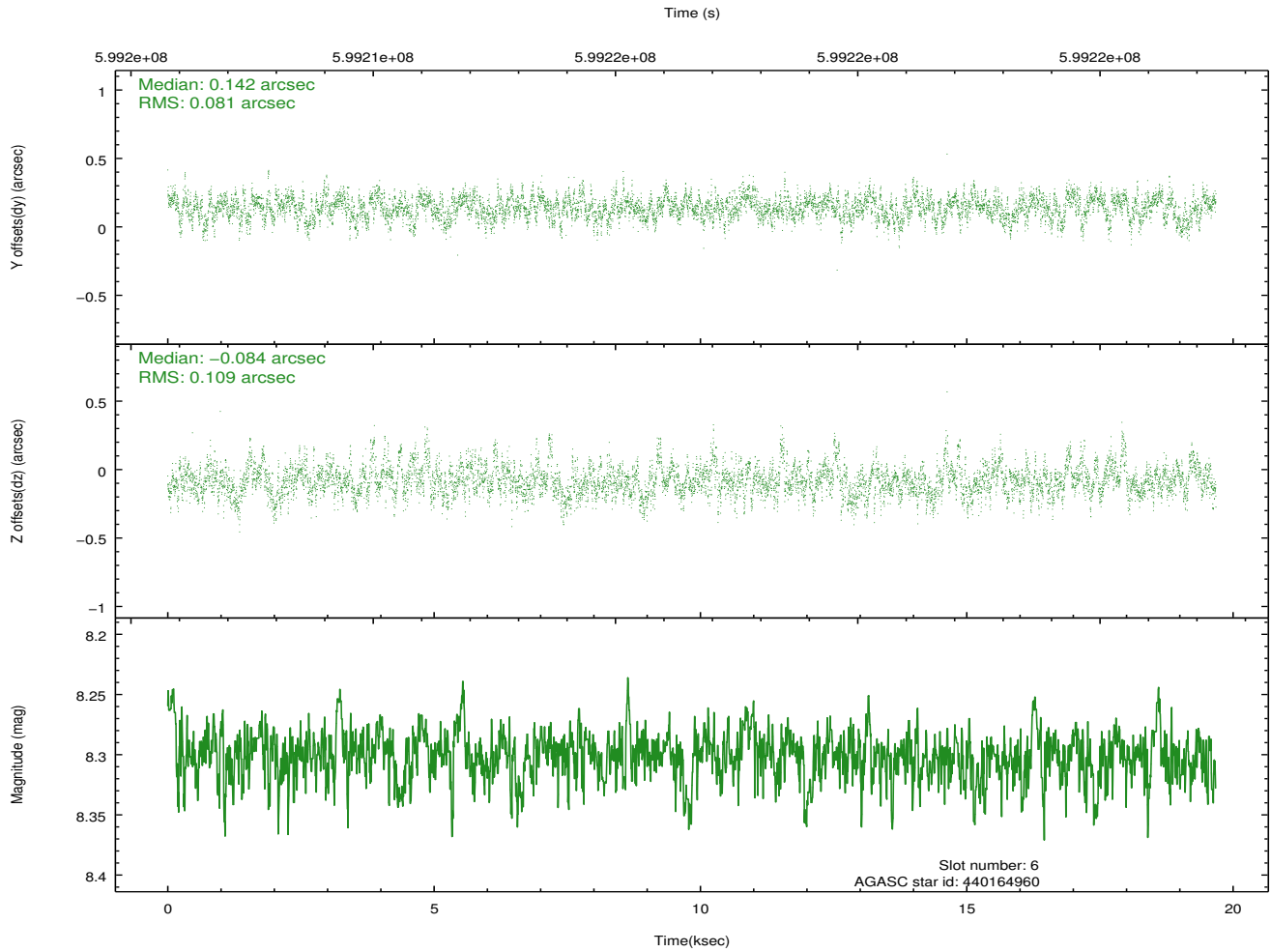
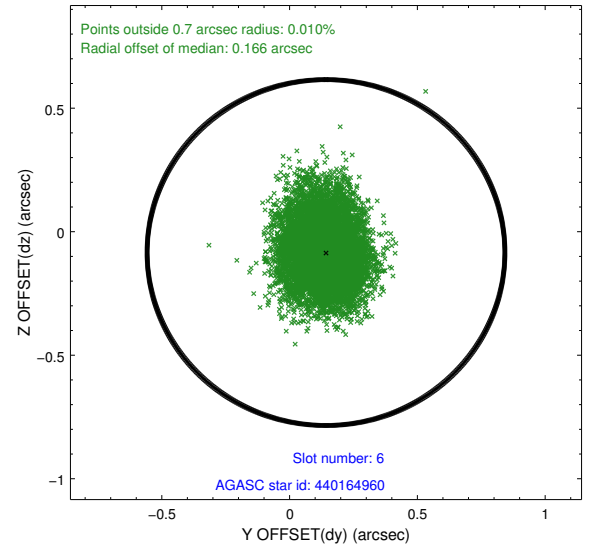
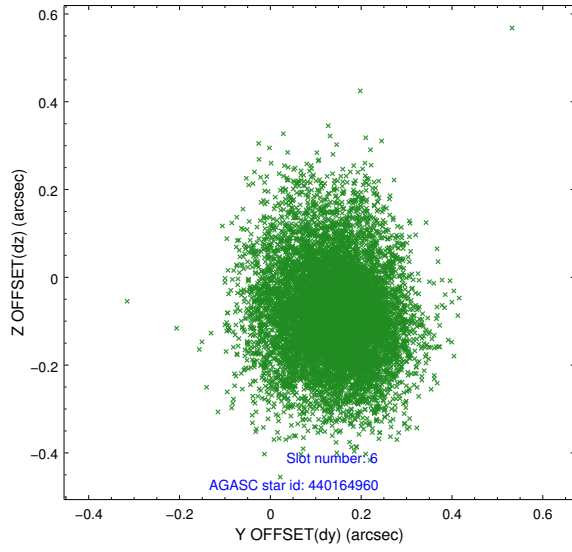
2.4.2 Slot 4



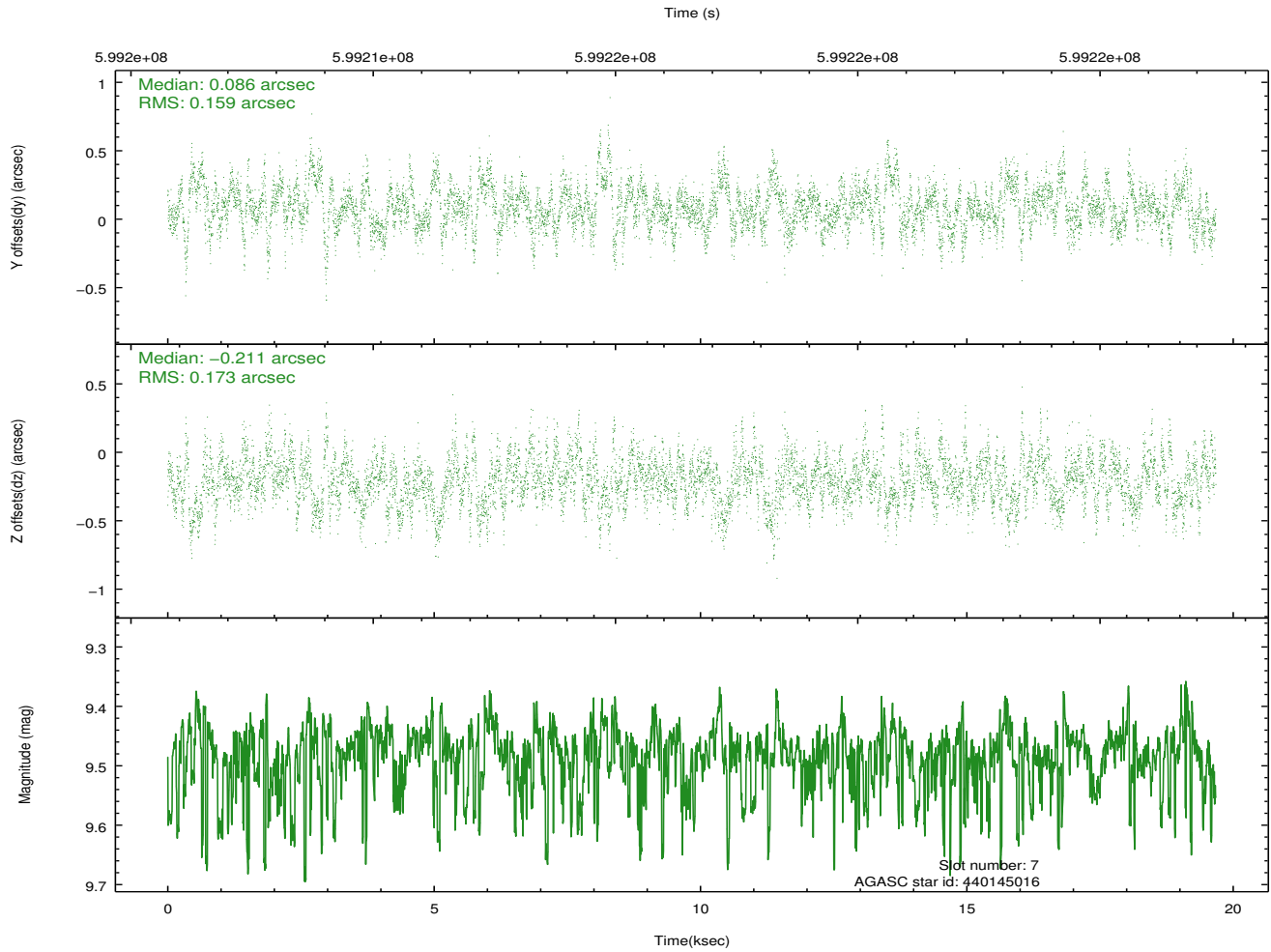
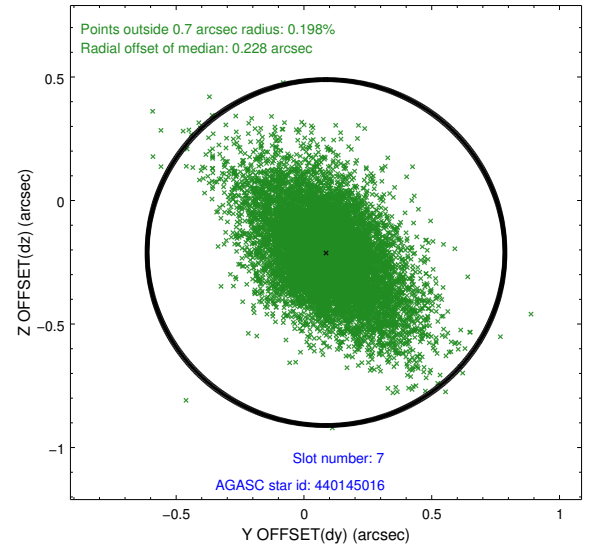
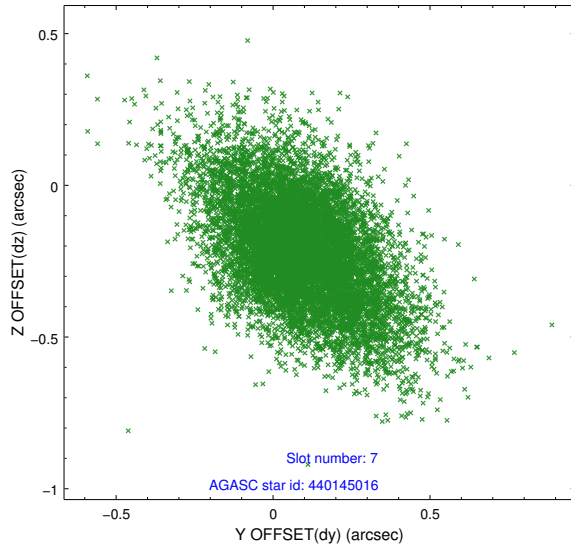
2.4.3 Slot 5



2.4.4 Slot 6

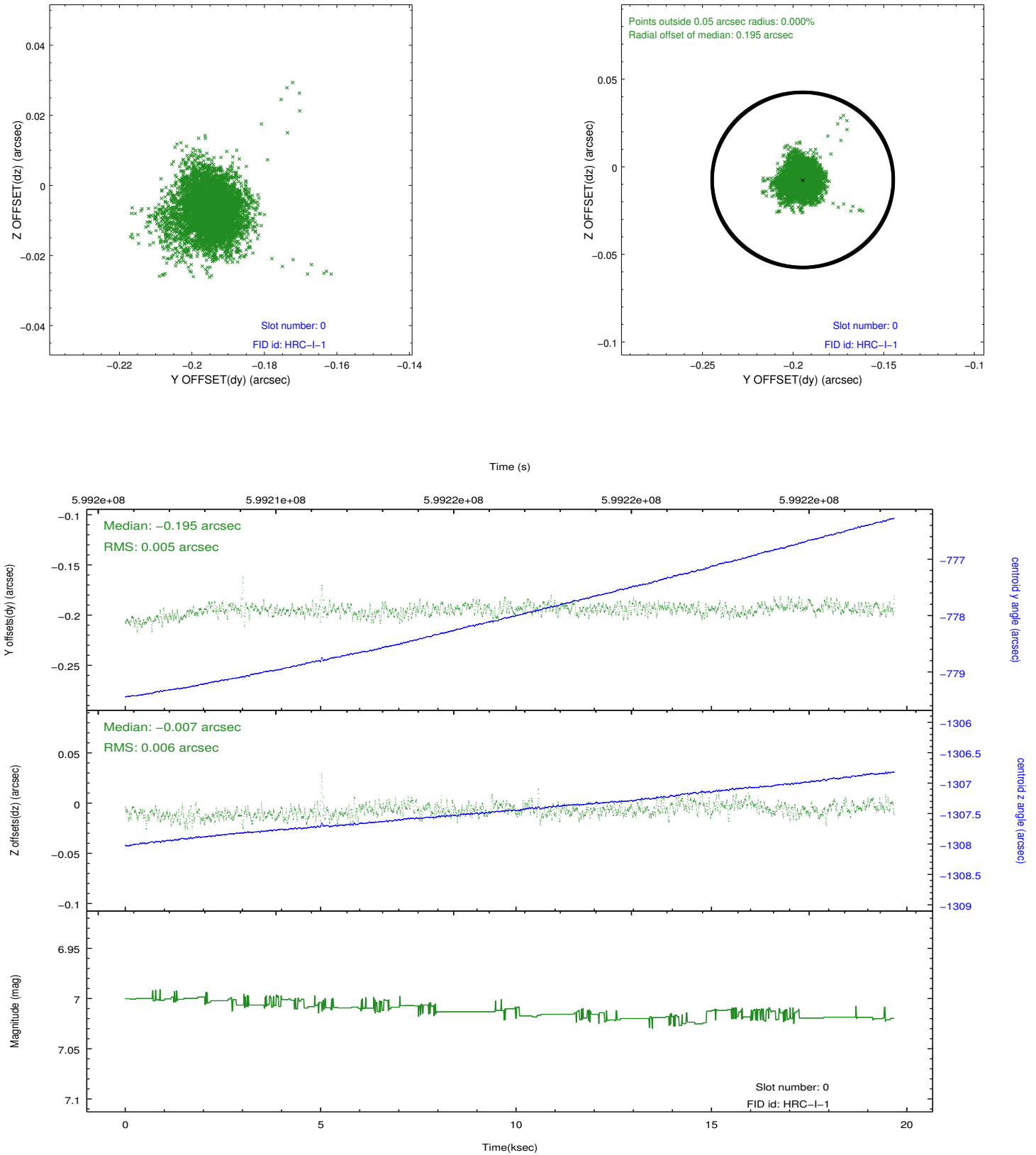


2.4.5 Slot 7

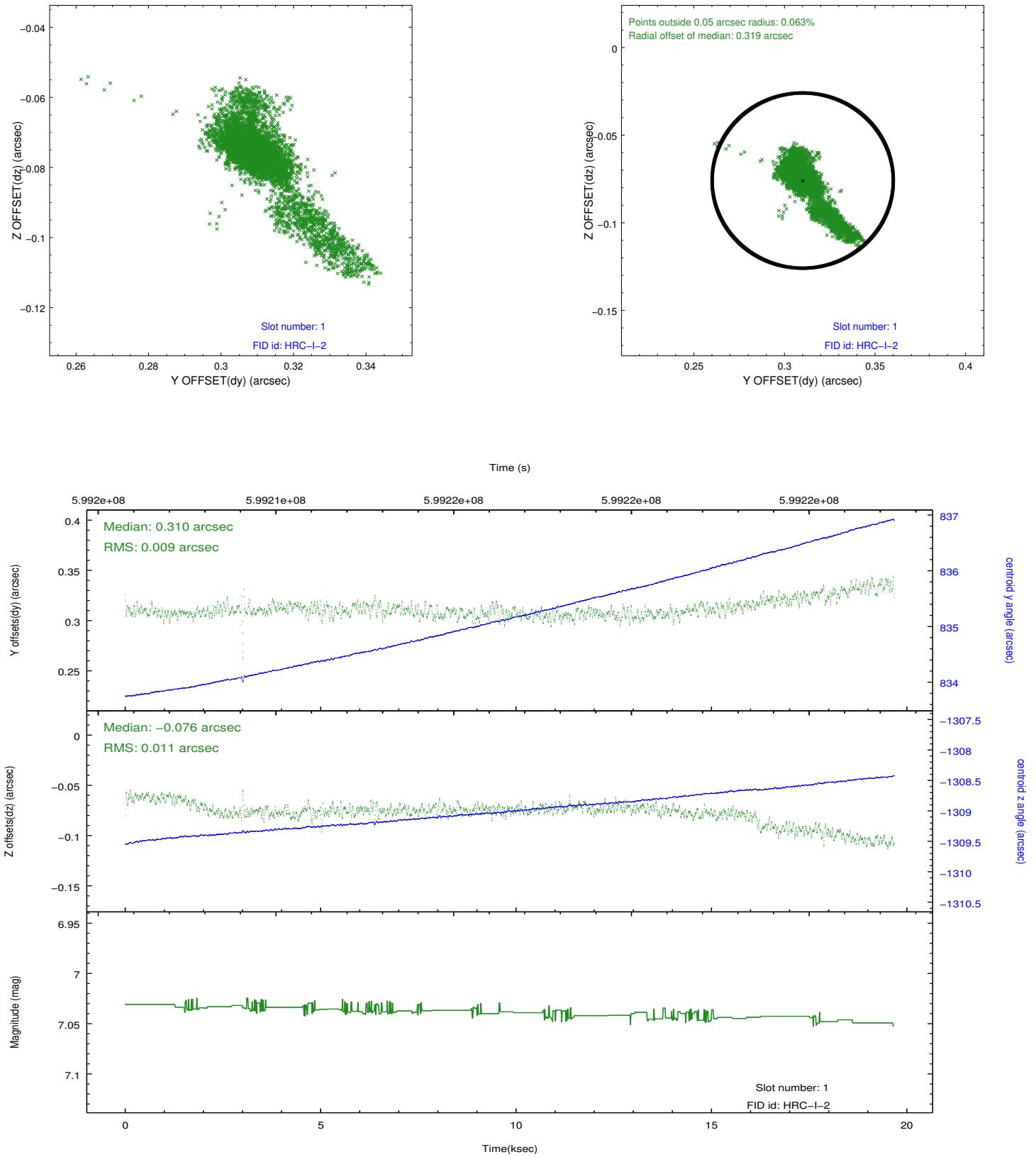


2.5 FID Slots

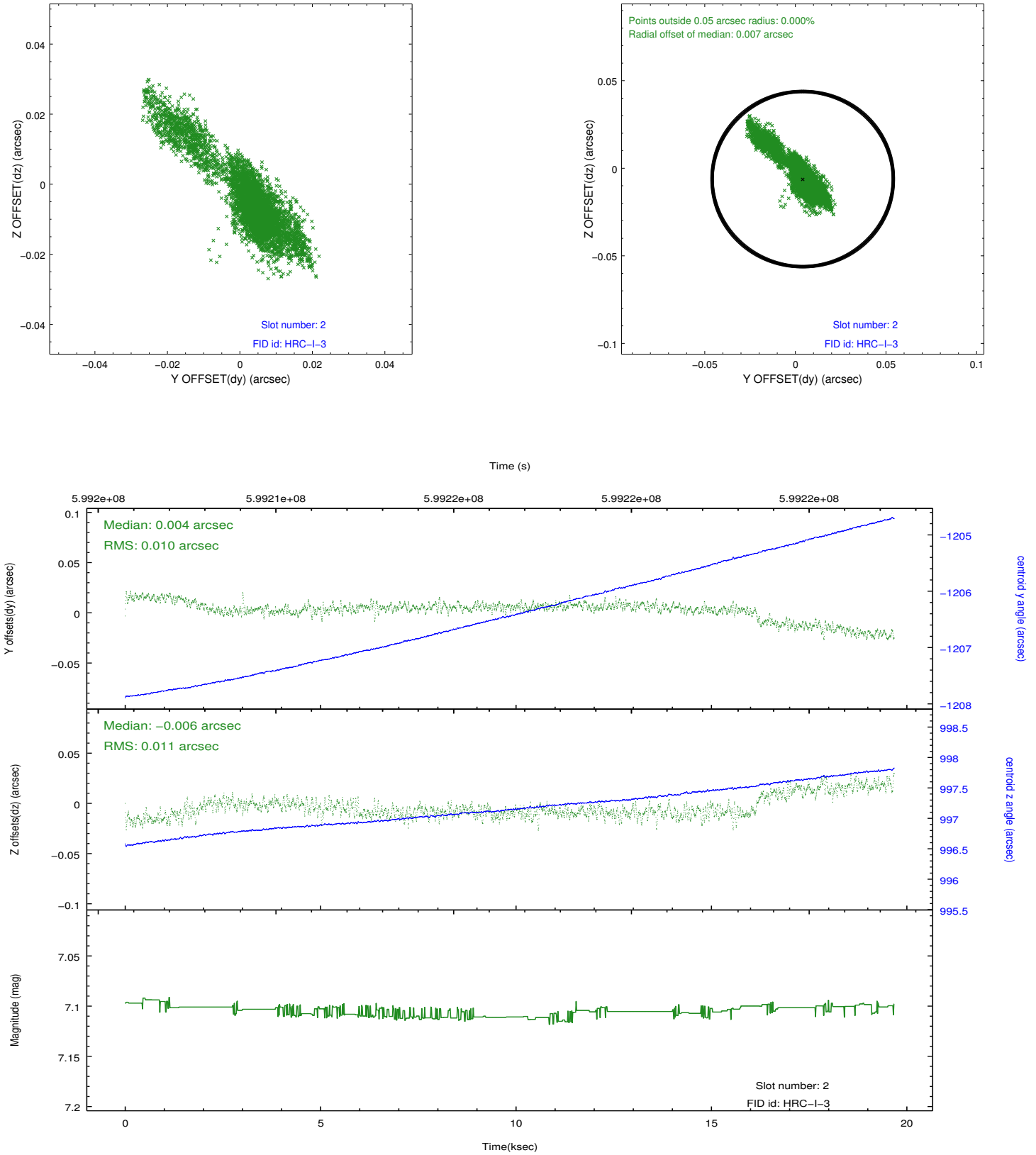
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2016.12.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.67692613852

A.2 Comments

Non-standard configuration of HRC-I with HETG does not have some supporting data for grating processing, such as the psf-size table used by tgdetect. Hence, grating products have not been produced, and will have to be dealt with manually. Other calibration products necessary for standard response generation will also be missing.

Comments for Obi 0

Star in slot 3 has an RMS deviation > 0.200000 arcsec
(Acceptable, as per aspect review).