

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19970 - L2 Version 1
Chandra X-Ray Center

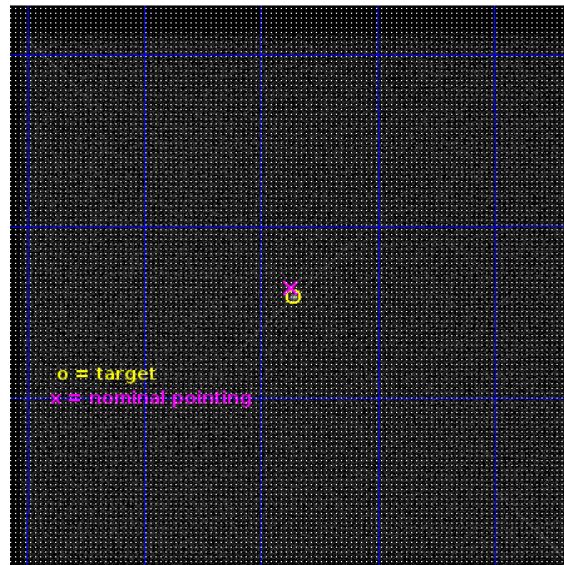
L2 Processing Date : Nov 15 2017

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1 Front

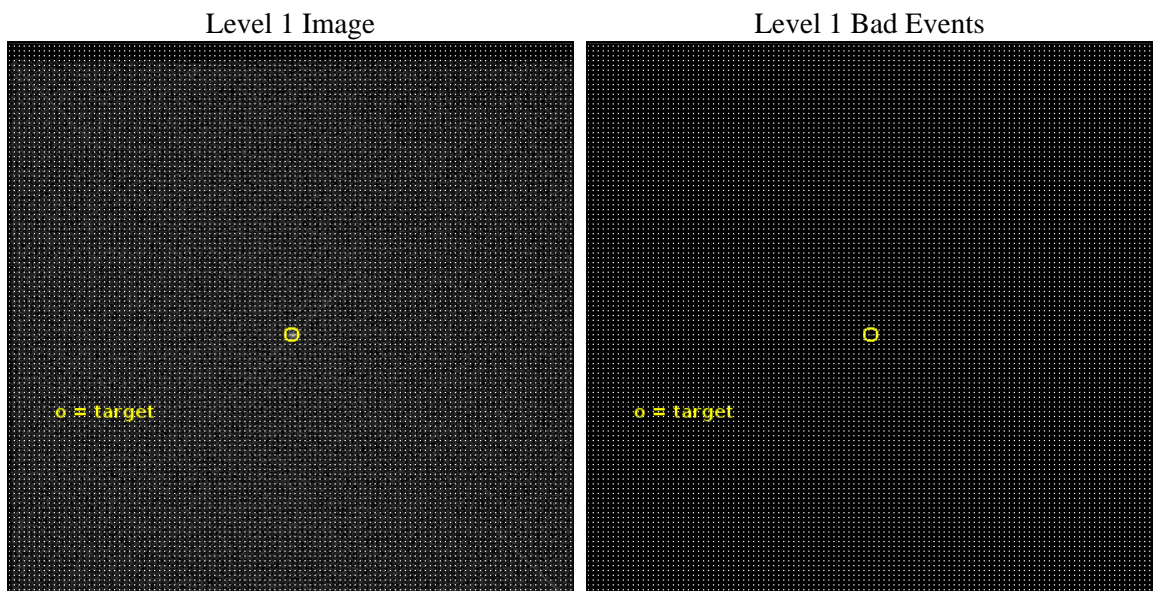
seq_num	291365	Sequence number
obs_id	19970	Observation id
title	AO-18 (Fall 2017) Calibration Observations of HZ43	Proposal title
observer	CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.090417	Observer's specified target RA [deg]
dec_targ	29.098306	Observer's specified target Dec [deg]
ra_nom	199.09262432358	Nominal RA [deg]
dec_nom	29.107196391724	Nominal Dec [deg]
roll_nom	44.903568041807	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2184.5313782692	[s]
livetime	2157.0013504212	Ontime multiplied by DTCOR
l2events	239485	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	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	2184.5313782692	[s]
caldbver	4.7.6	 	l1events	411335	Number of level 1 events
date	2017-11-15T19:50:22	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(16444.61, 16140.57)	src1a sky pixel position

2.1.3 Events

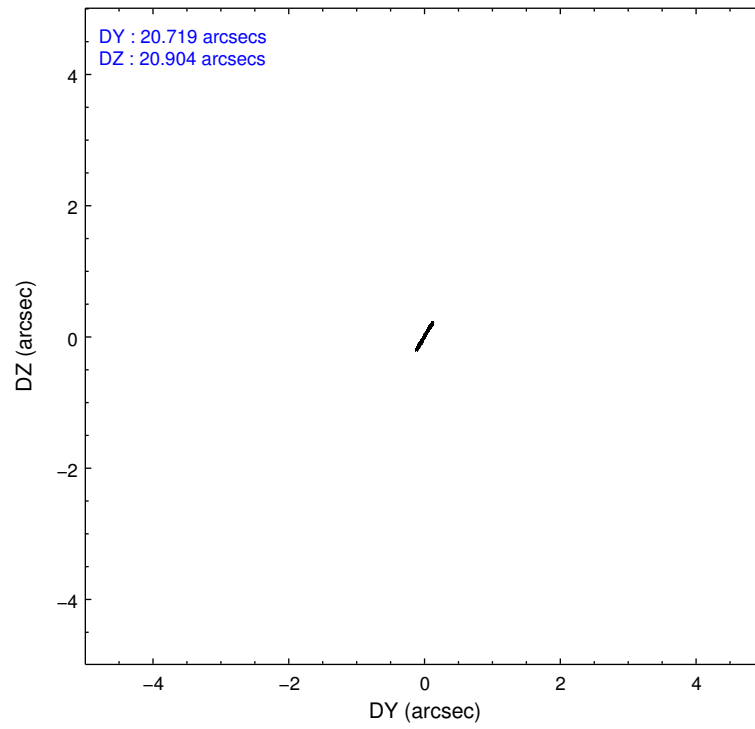
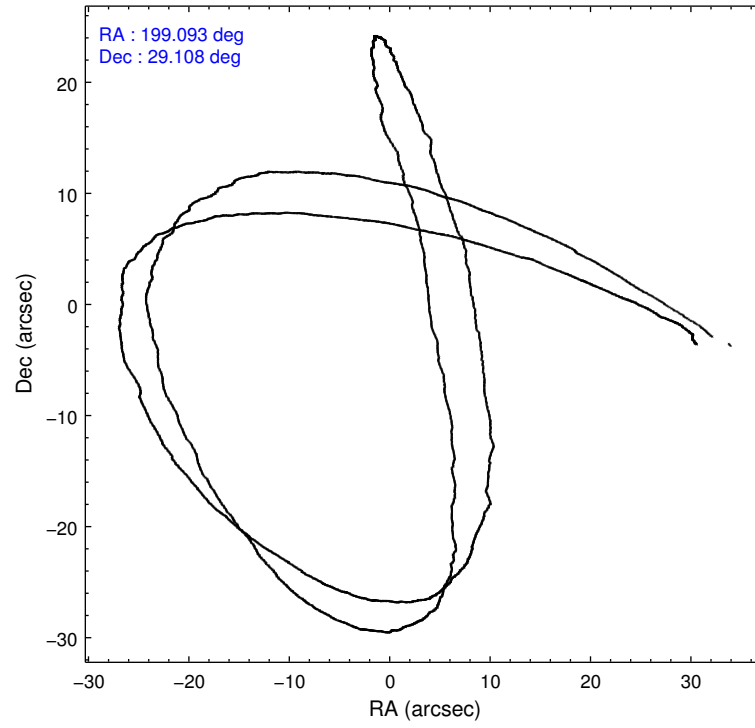
Level 1 Events

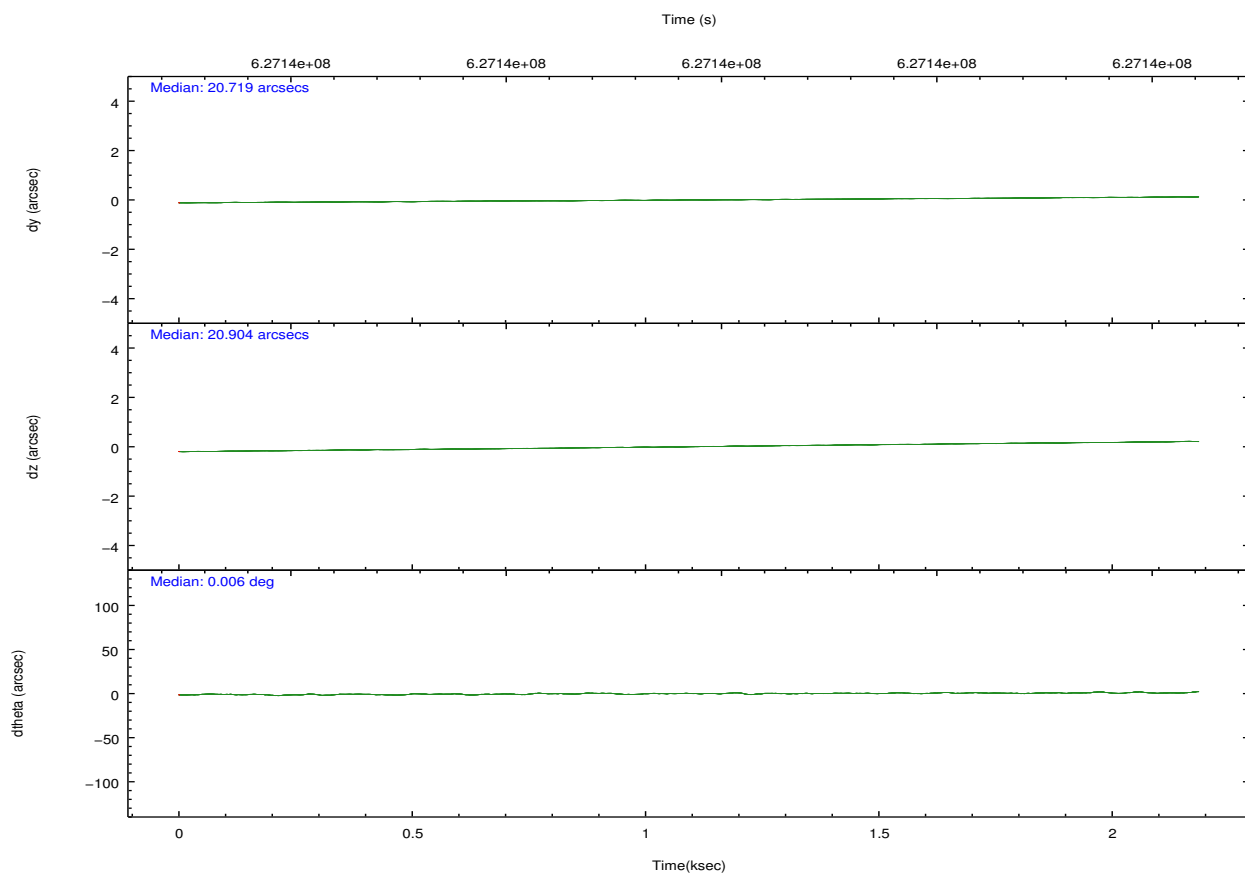
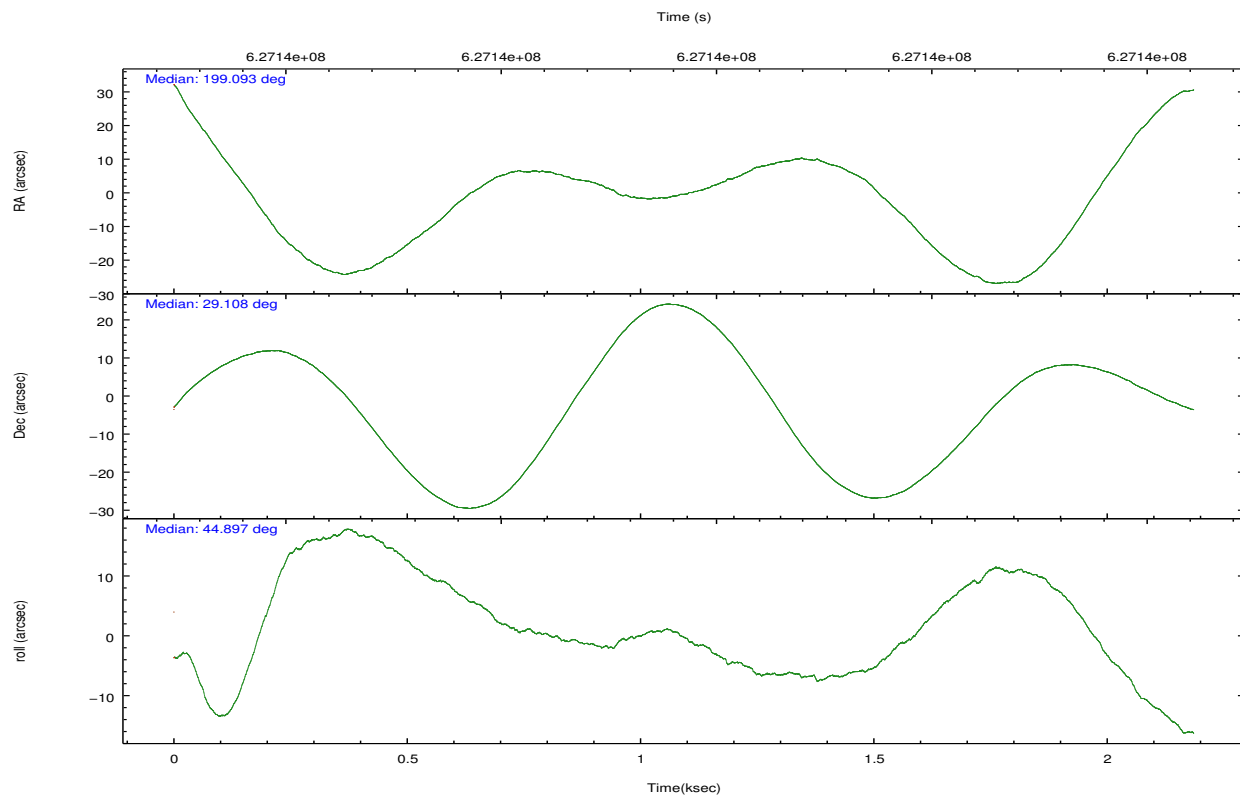
	segment 0
level 1 events	411335
rejected events	97577
rejected %	23%

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	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	199.085334	199.0926243235771			
[deg] Pointing Dec	29.080459	29.10719639172411			
[deg] Pointing Roll	45.002469	44.90356804180668			
[s] Window start time (MET)	626832069.184000	626832069.184000			
[s] Window stop time (MET)	629683269.184000	629683269.184000			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	627138508.184000	627137636.80375			
Observation start date	2017-11-15T13:07:19	2017-11-15T12:53:56			
[s] Observation end time (MET)	627140508.184000	627141108.47896			
Observation end date	2017-11-15T13:40:39	2017-11-15T13:51:48			

2.3 Aspect



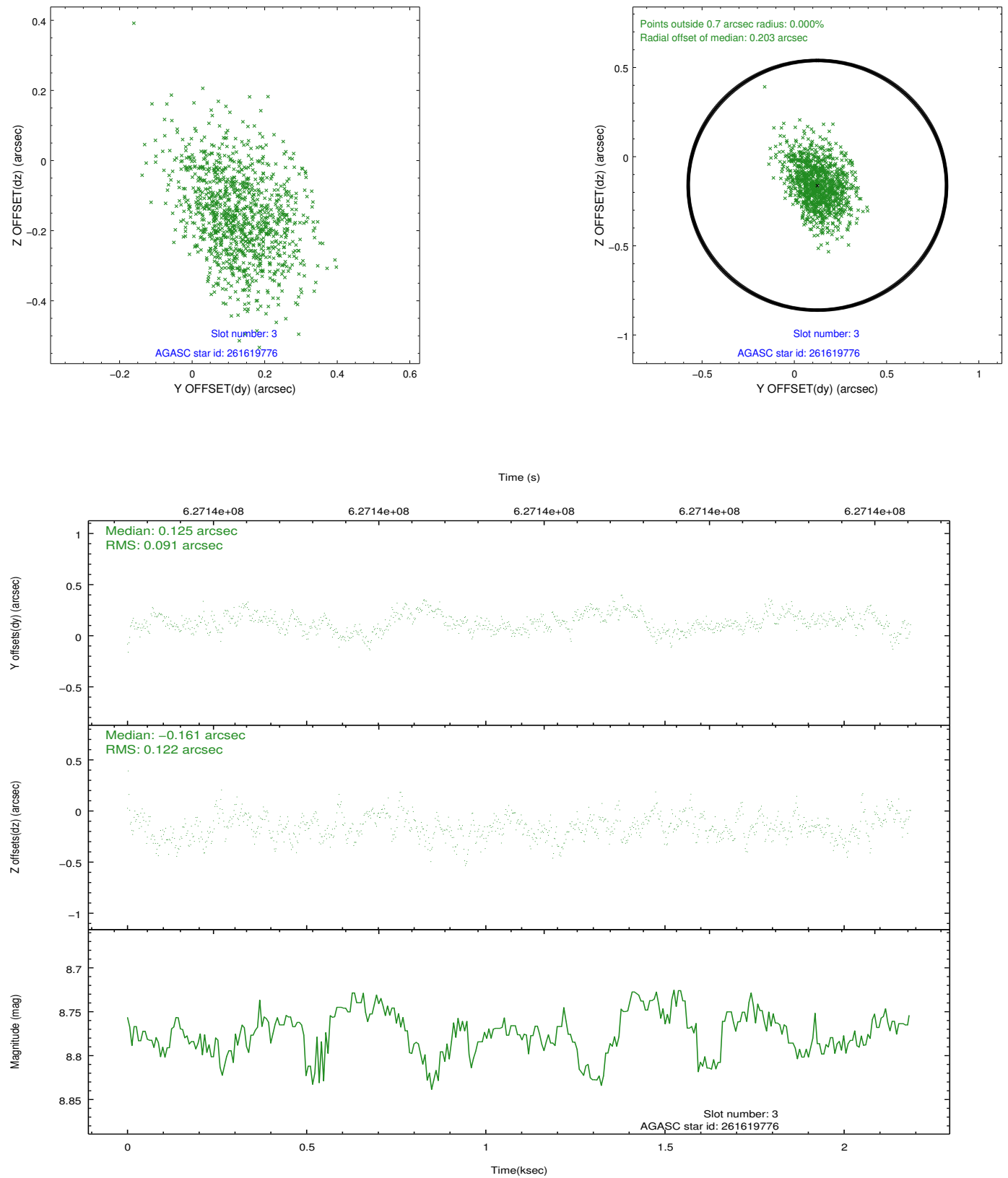


Slot Statistics

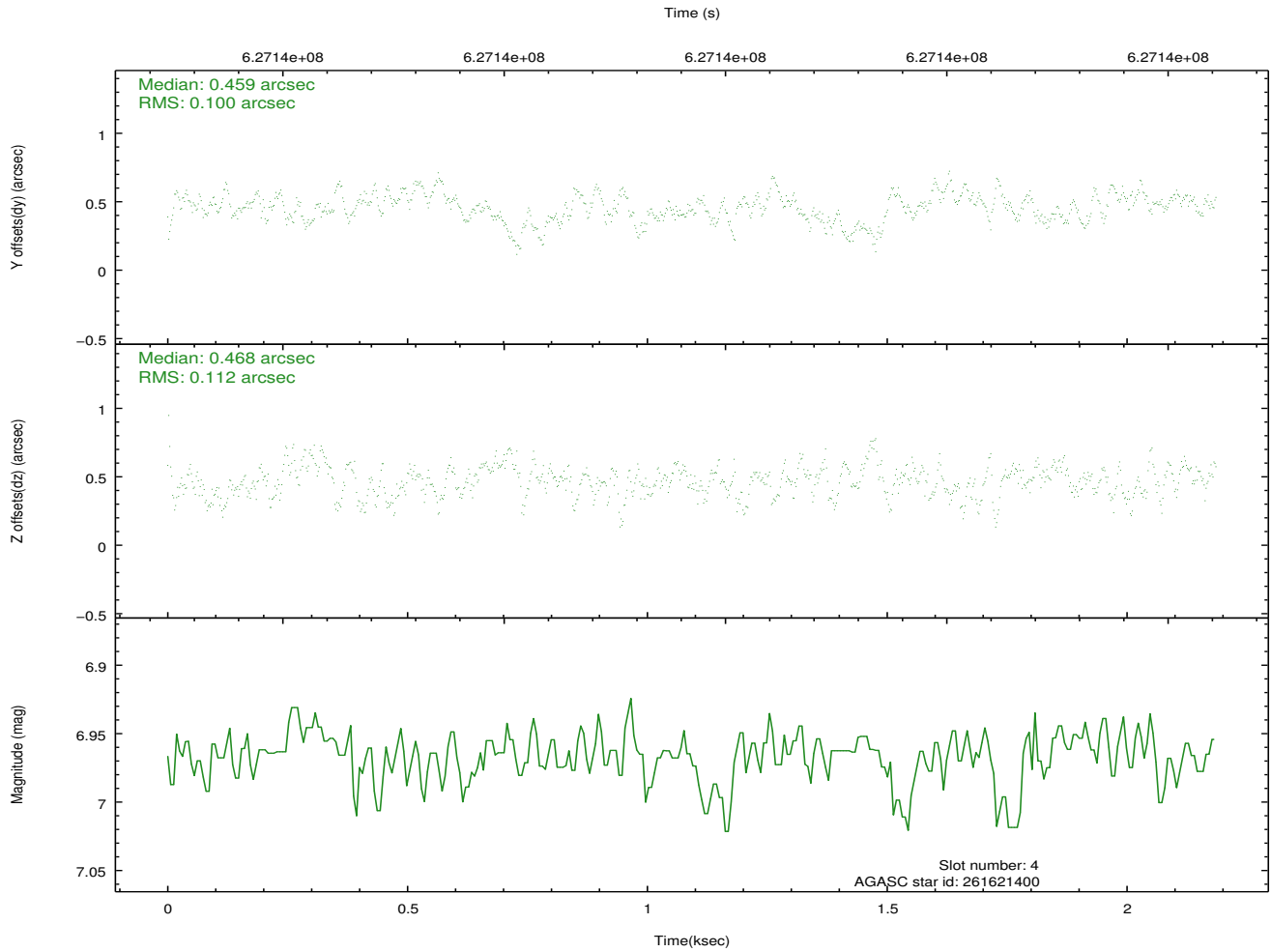
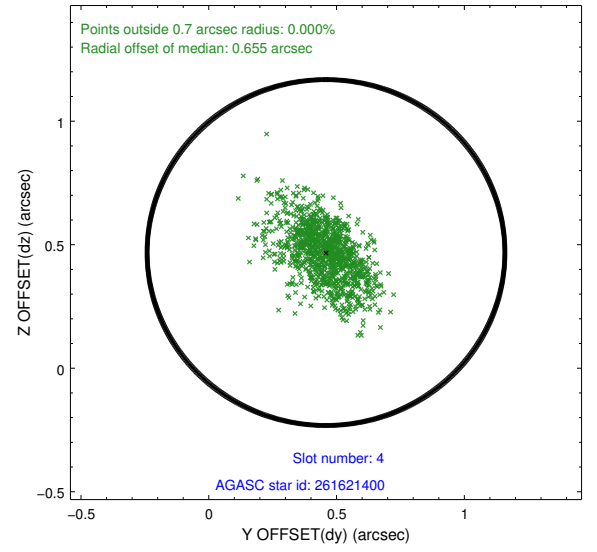
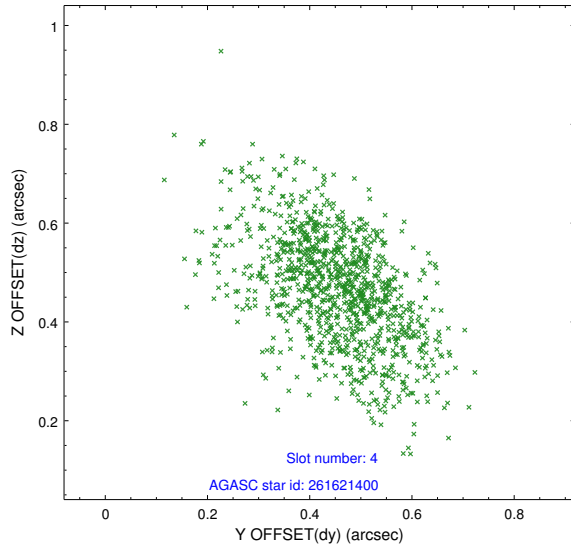
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.02	534	-0.198	-0.003	0.008	0.013	0.000000	0.000000	-776.80	-1309.20
1	FID		HRC-I-2	7.05	534	0.316	-0.081	0.008	0.013	0.000000	0.000000	834.89	-1313.22
2	FID		HRC-I-3	7.11	534	0.000	-0.006	0.007	0.013	0.000000	0.000000	-1203.64	992.88
3	GUIDE	used	261619776	8.77	1067	0.125	-0.161	0.157	0.270	198.654383	29.401174	-137.34	1771.60
4	GUIDE	used	261621400	6.97	1067	0.459	0.468	0.154	0.268	198.901600	28.741982	-1271.34	-449.60
5	GUIDE	used	261626376	9.67	1065	-0.068	-0.088	0.285	0.459	198.947288	29.347445	371.92	985.25
6	GUIDE	used	261629720	8.08	1067	-0.007	0.517	0.133	0.226	199.236176	29.044452	244.67	-426.62
7	GUIDE	used	261623040	9.07	1065	-0.529	-0.747	0.187	0.289	198.792686	29.757643	1077.61	2369.37

2.4 Star Slots

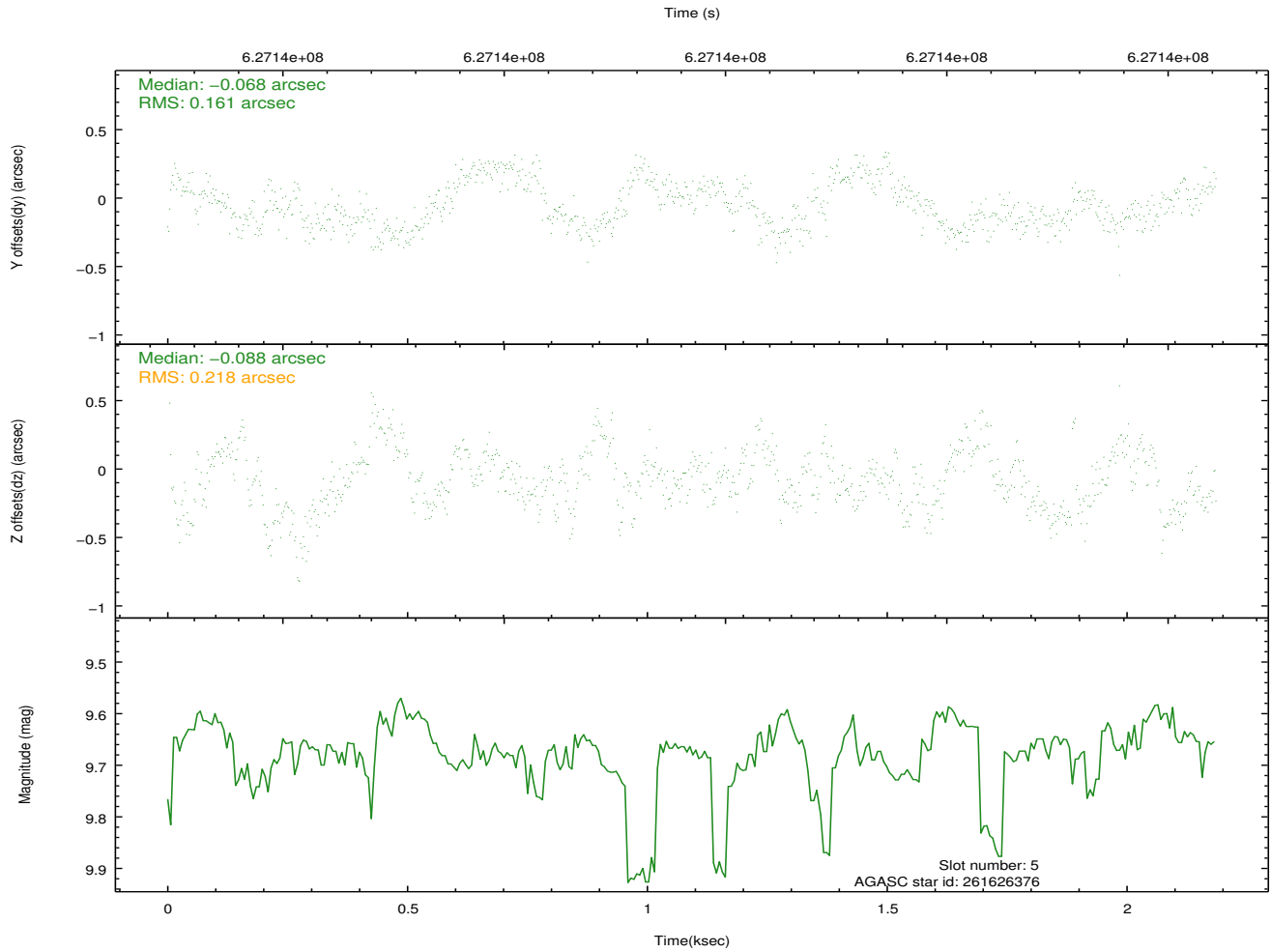
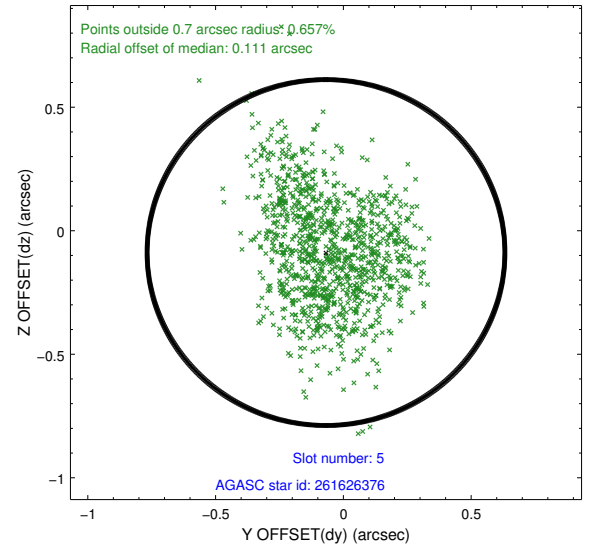
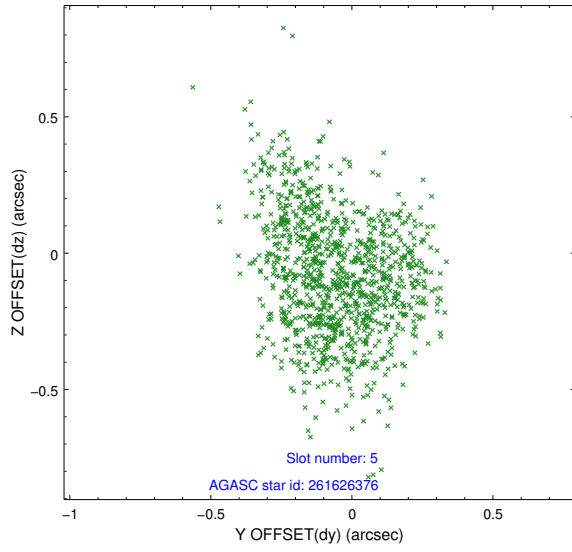
2.4.1 Slot 3



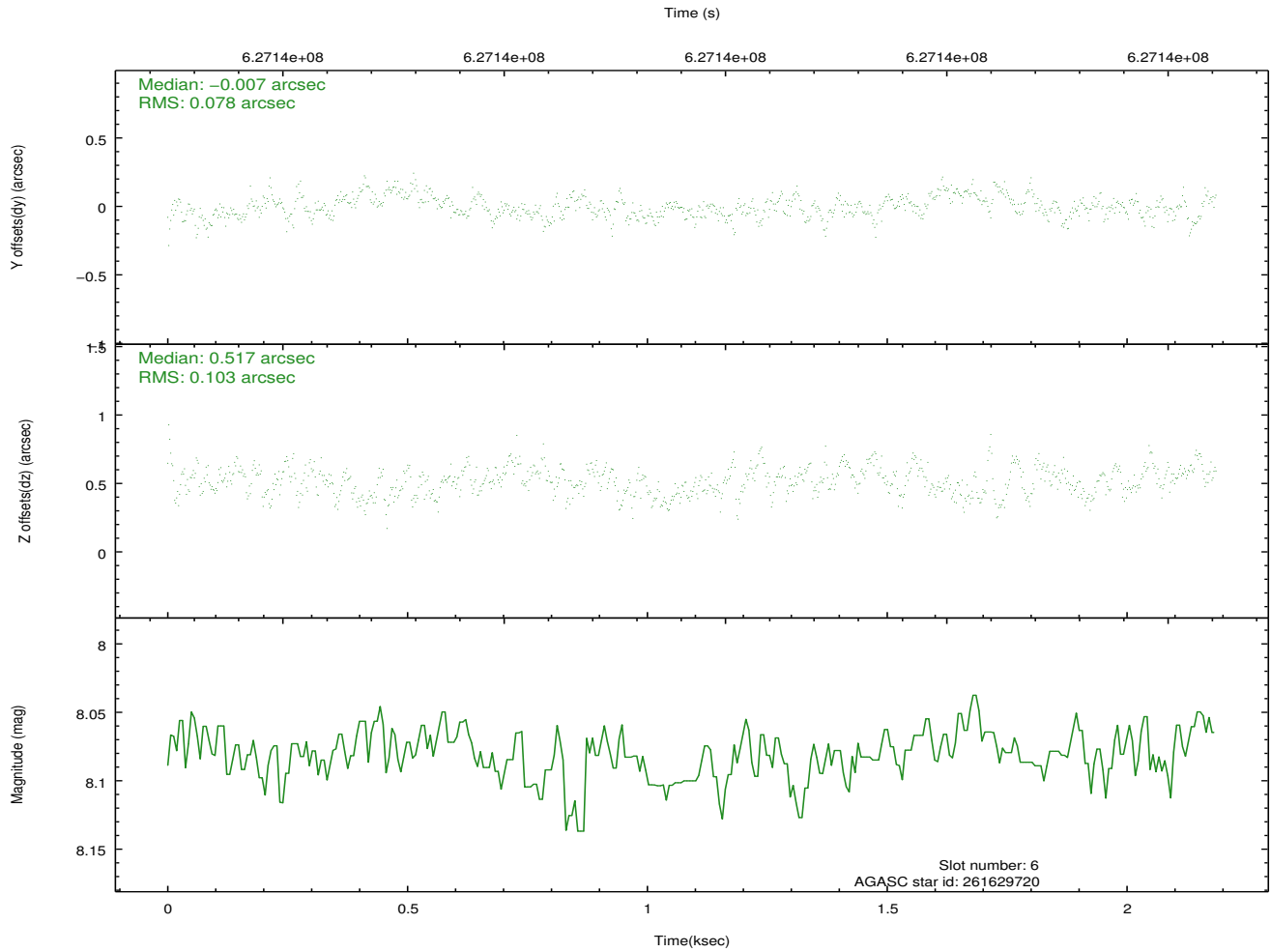
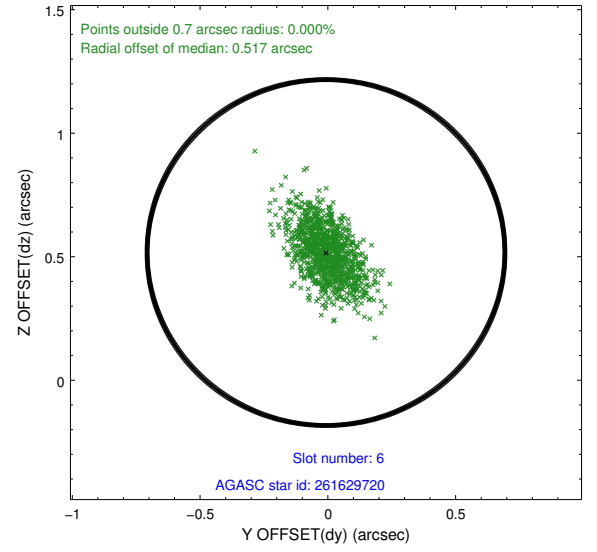
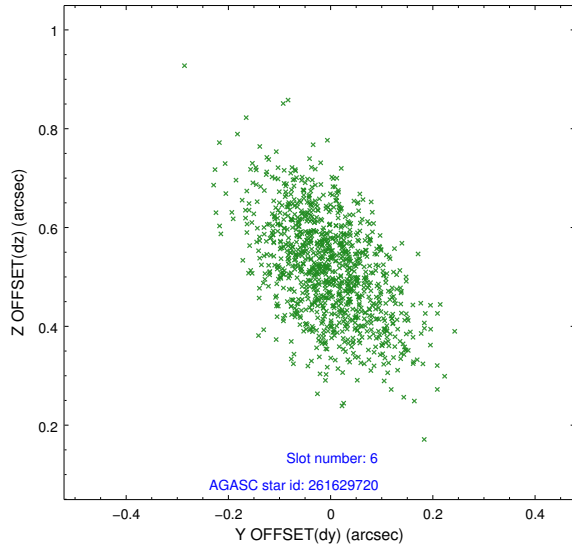
2.4.2 Slot 4



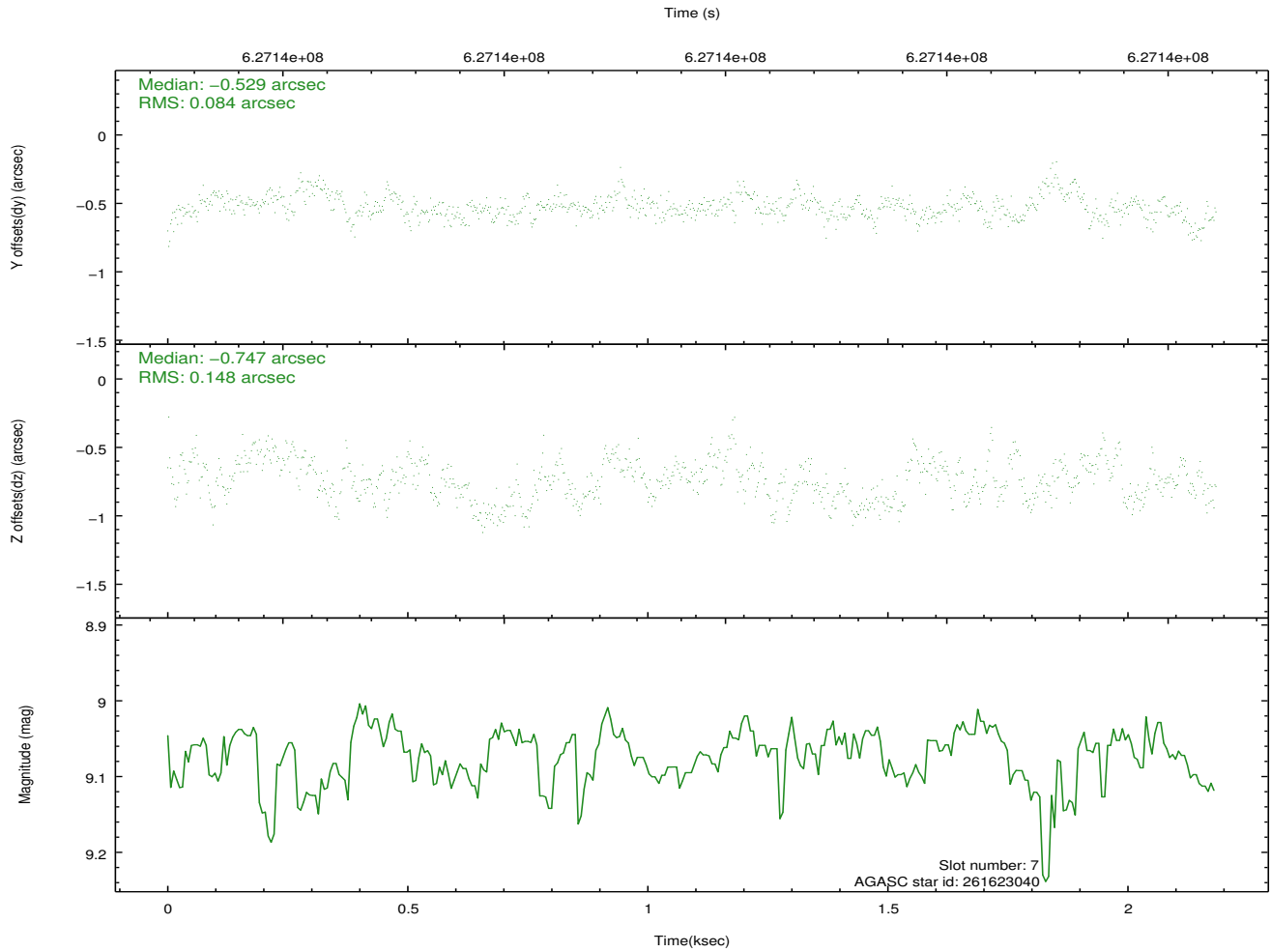
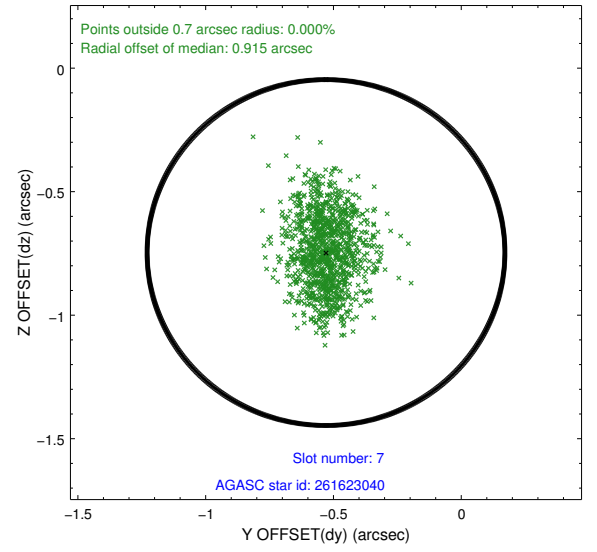
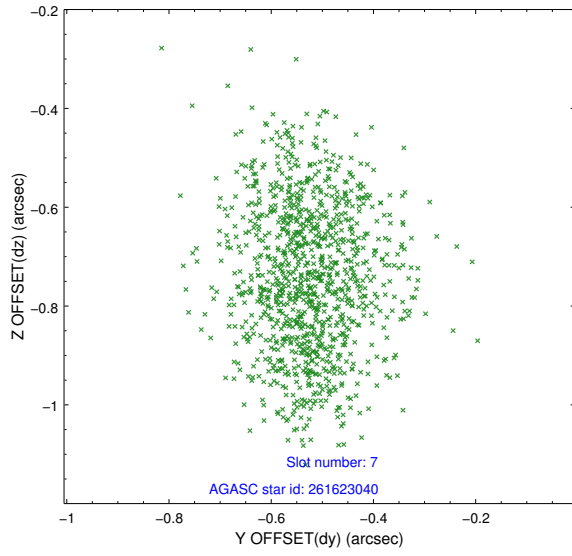
2.4.3 Slot 5



2.4.4 Slot 6

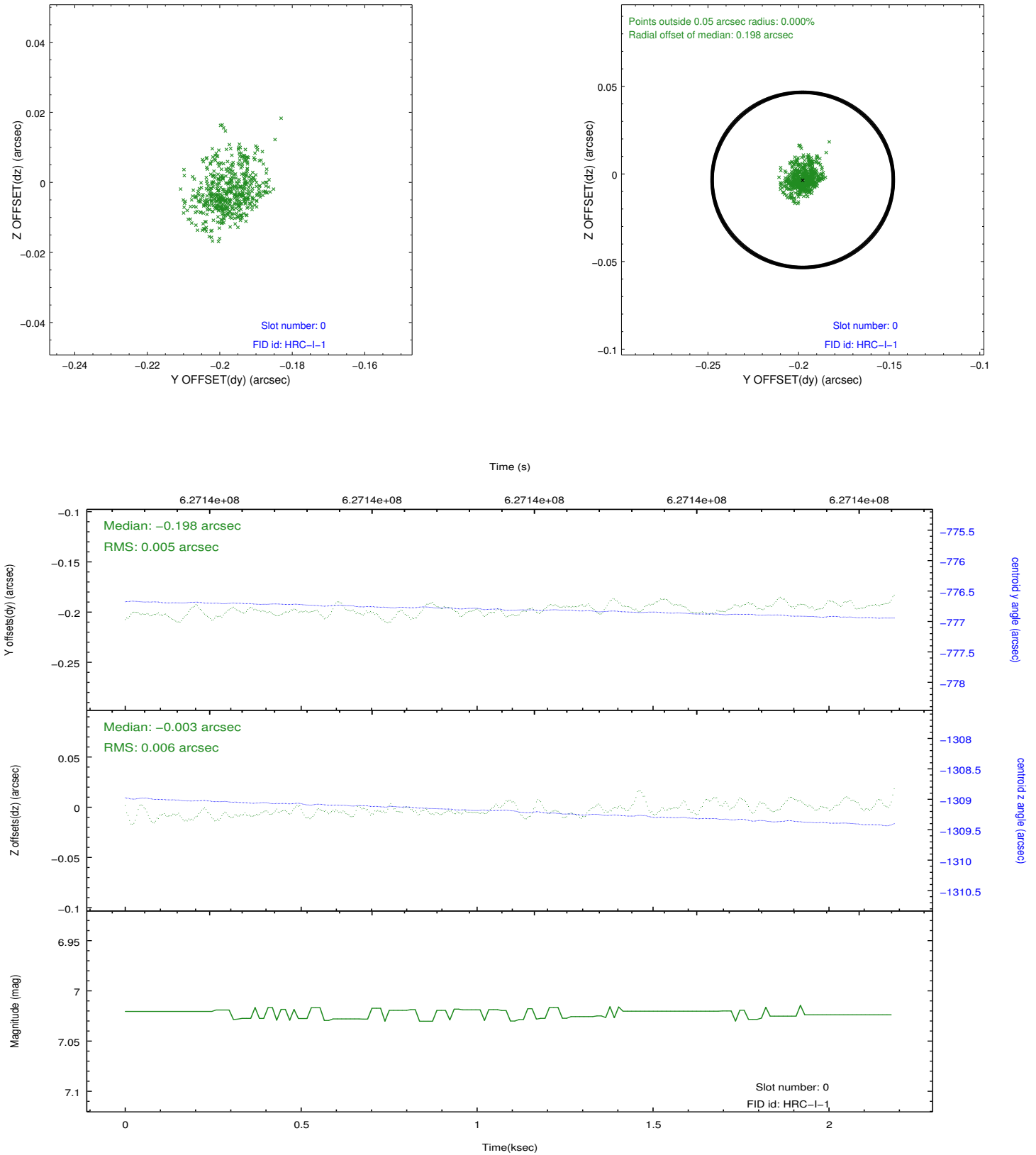


2.4.5 Slot 7

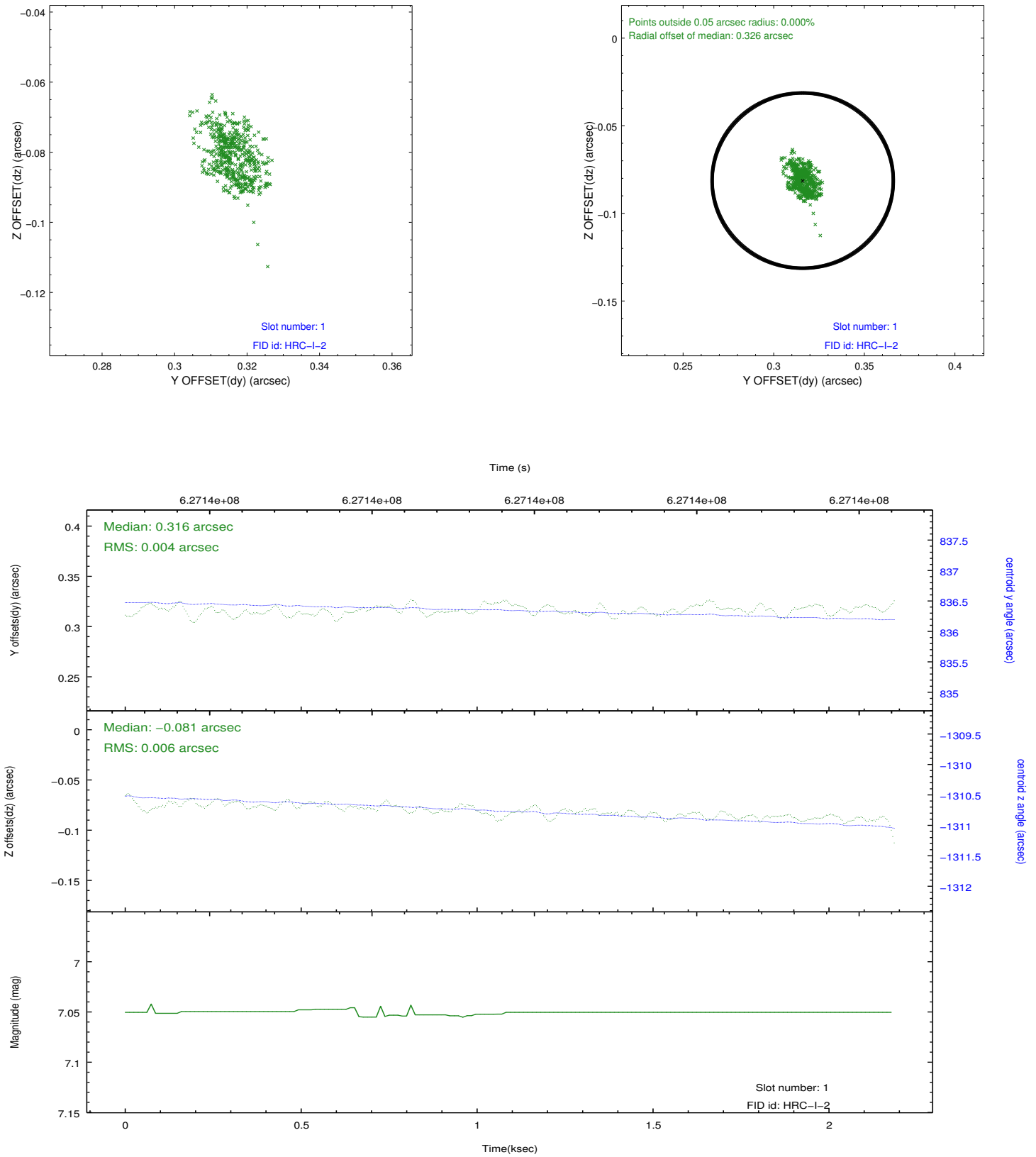


2.5 FID Slots

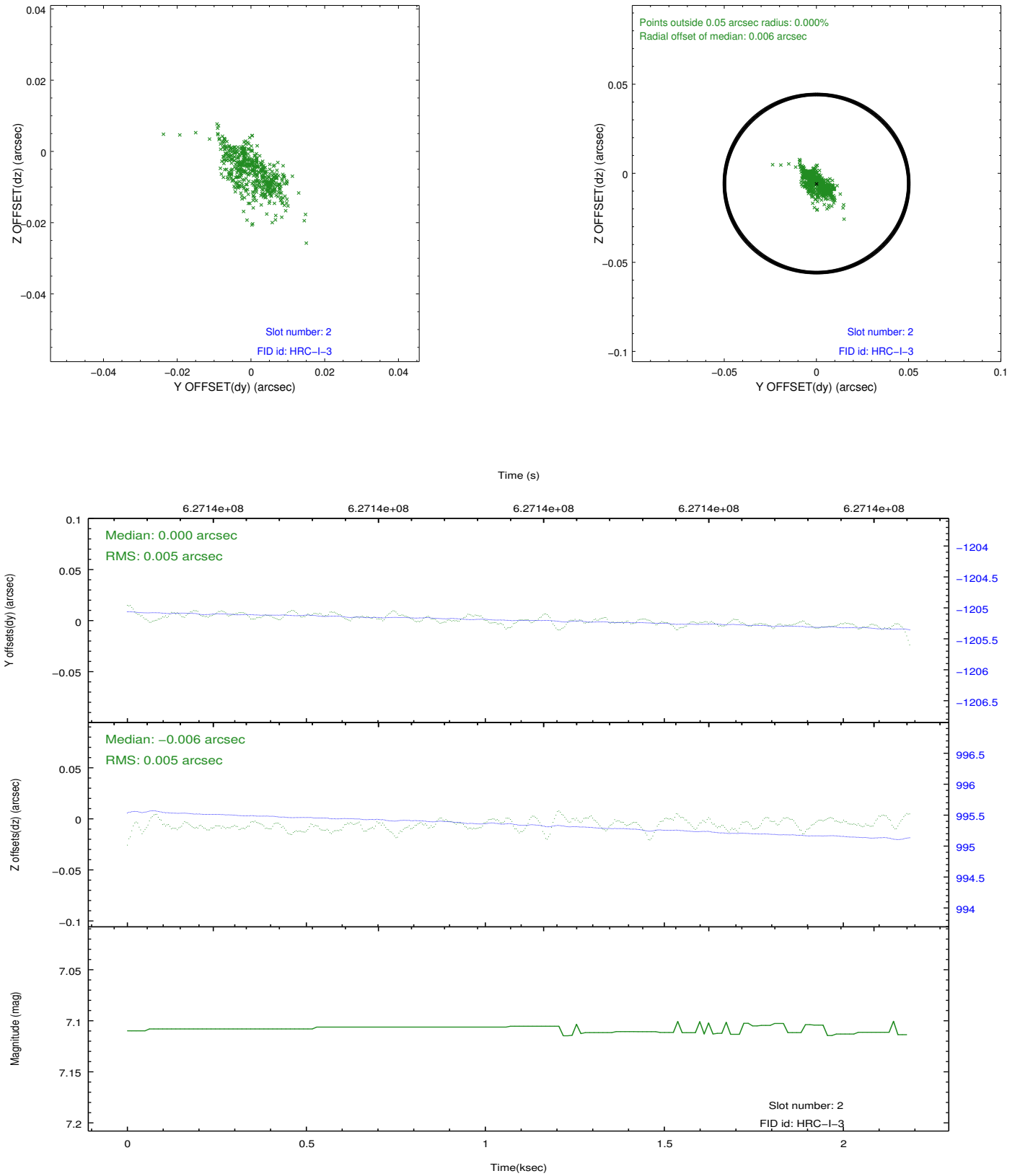
2.5.1 Slot 0



2.5.2 Slot 1

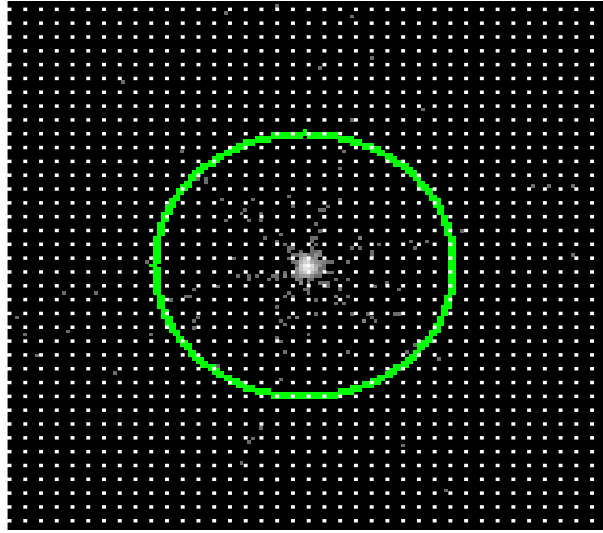


2.5.3 Slot 2

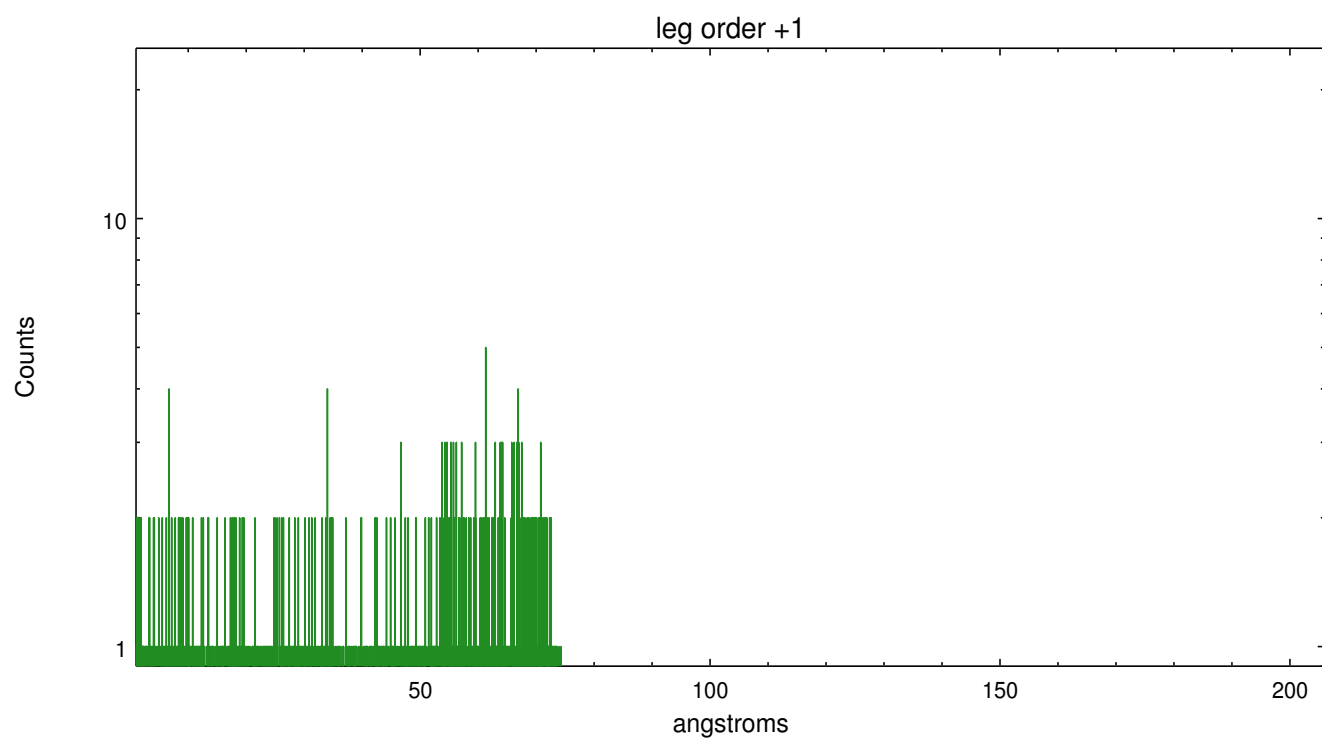
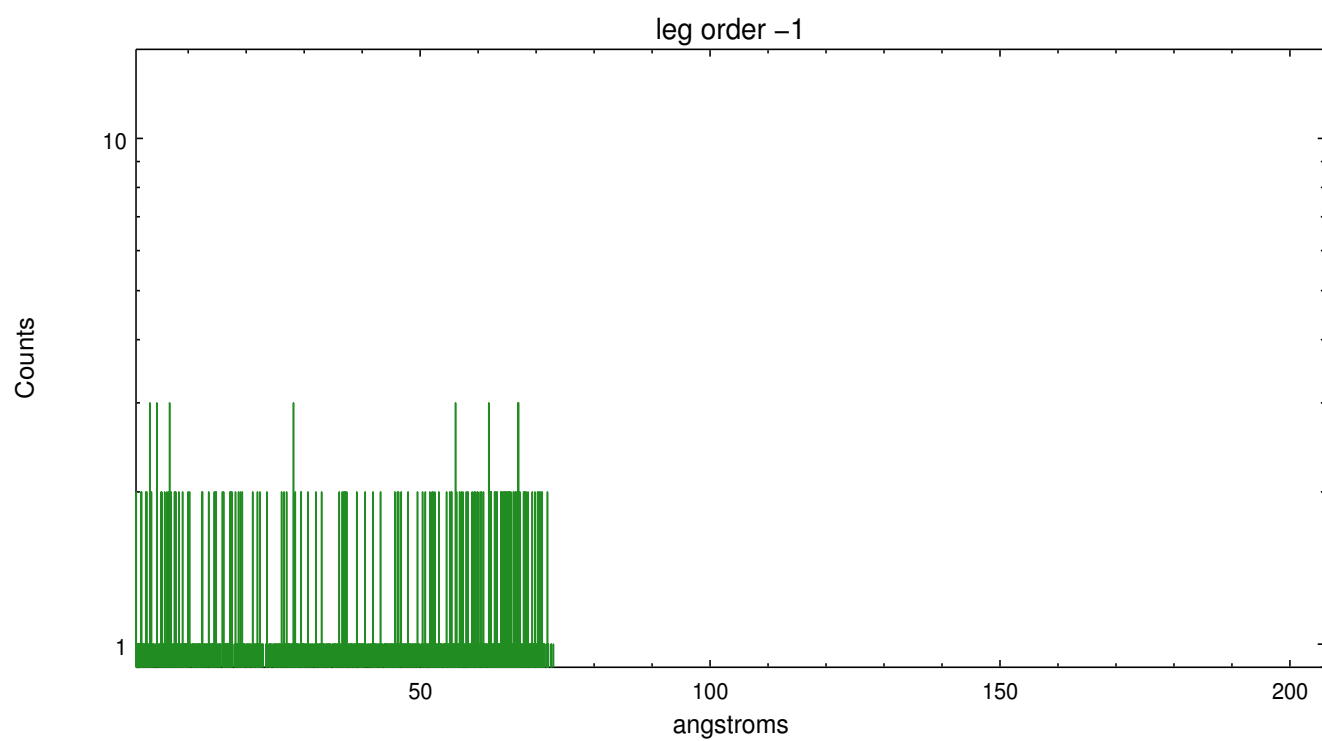


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.11.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.1845313782692

A.2 Comments