

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12228 - L2 Version 2
Chandra X-Ray Center

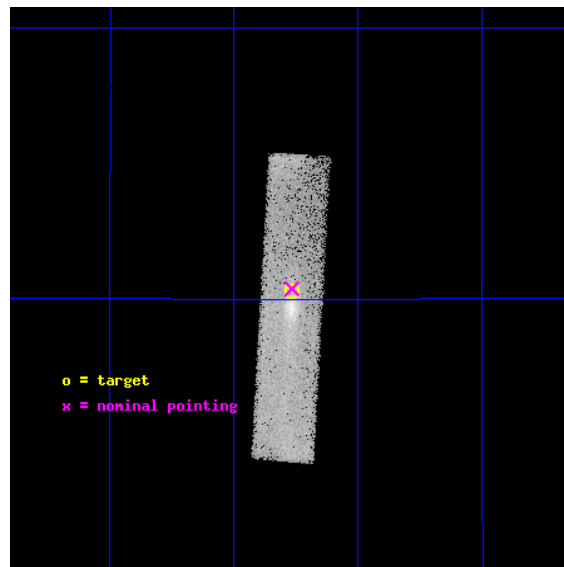
L2 Processing Date : Jul 2 2012

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1 Front

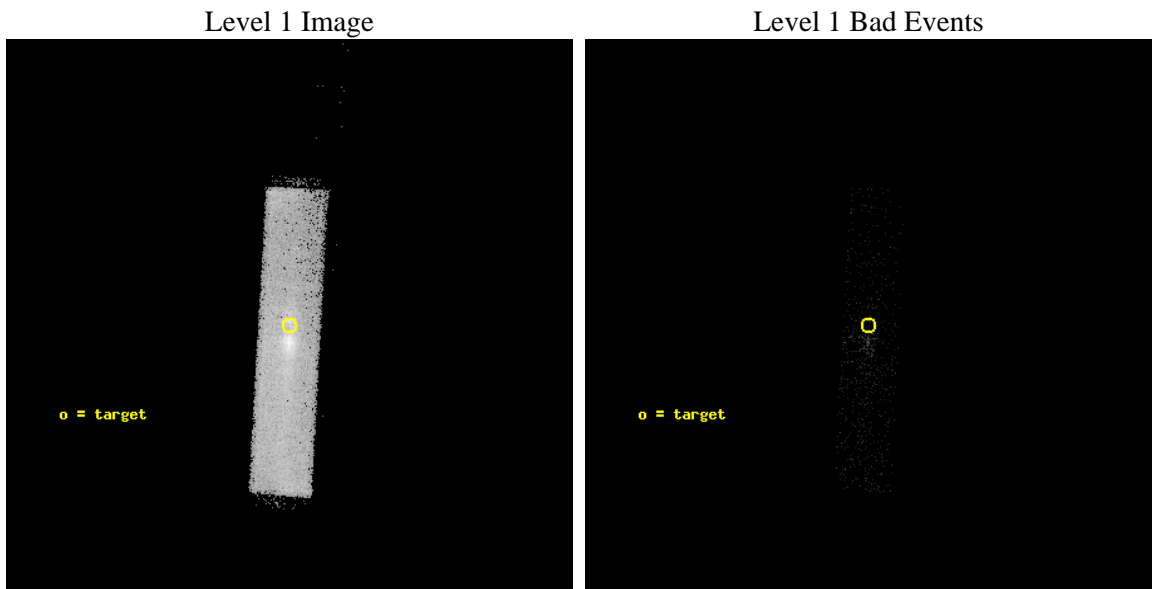
seq_num	590503	Sequence number
obs_id	12228	Observation id
title	Calibration path-finder observation of the Crab Pulsar	Proposal ti
observer	CXC Calibration	Principal investigator
object	PSRB0531+21	Source name
ra_targ	83.633333	Observer's specified target RA [deg]
dec_targ	22.014472	Observer's specified target Dec [deg]
ra_nom	83.633337343549	Nominal RA [deg]
dec_nom	22.019133149548	Nominal Dec [deg]
roll_nom	93.237130646902	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2137.1251094937	[s]
livetime	2132.6832540583	Ontime multiplied by DTCOR
l2events	44521	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	8.4.5	Processing system revision	ontime	2137.1251094937	[s]
caldsver	4.5.0	 	l1events	93971	Number of level 1 events
date	2012-07-02T05:08:17	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

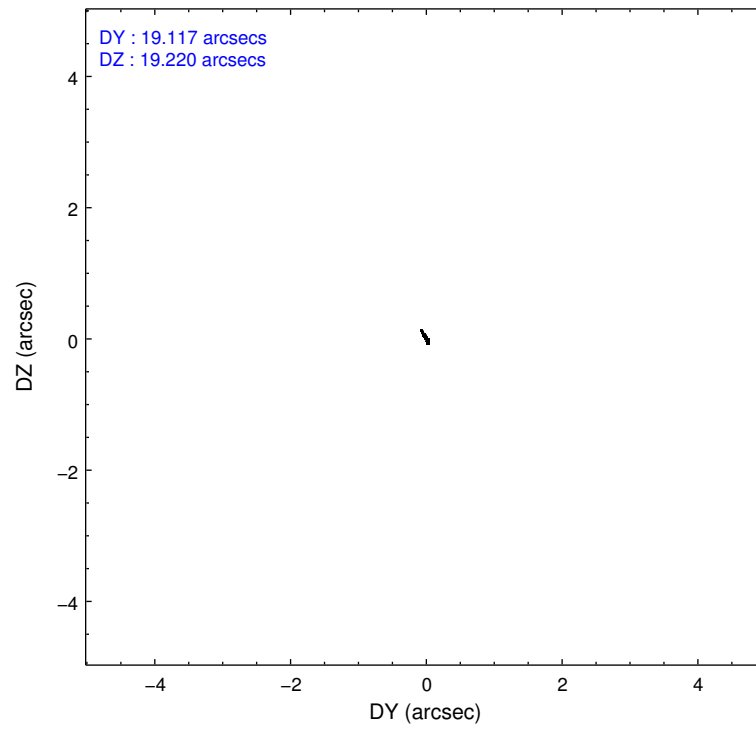
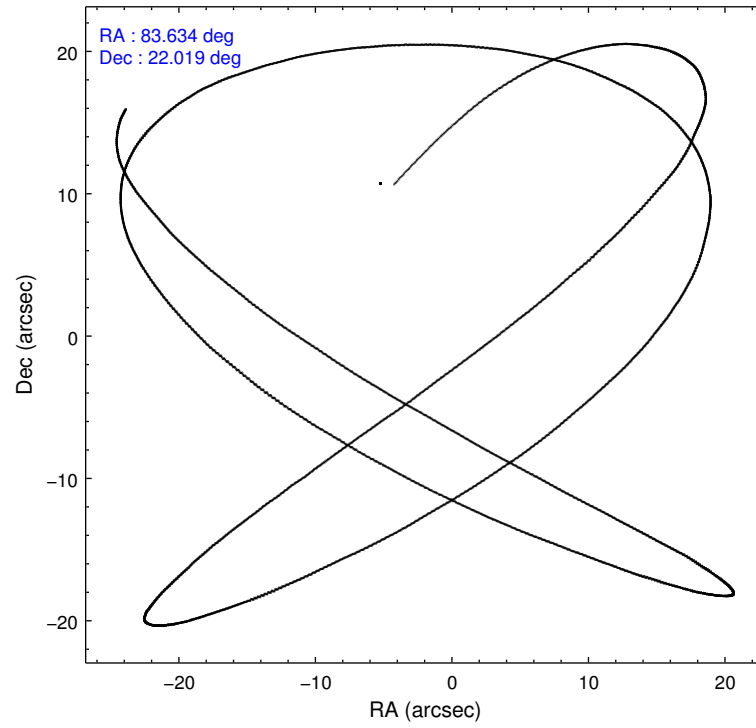
Level 1 Events

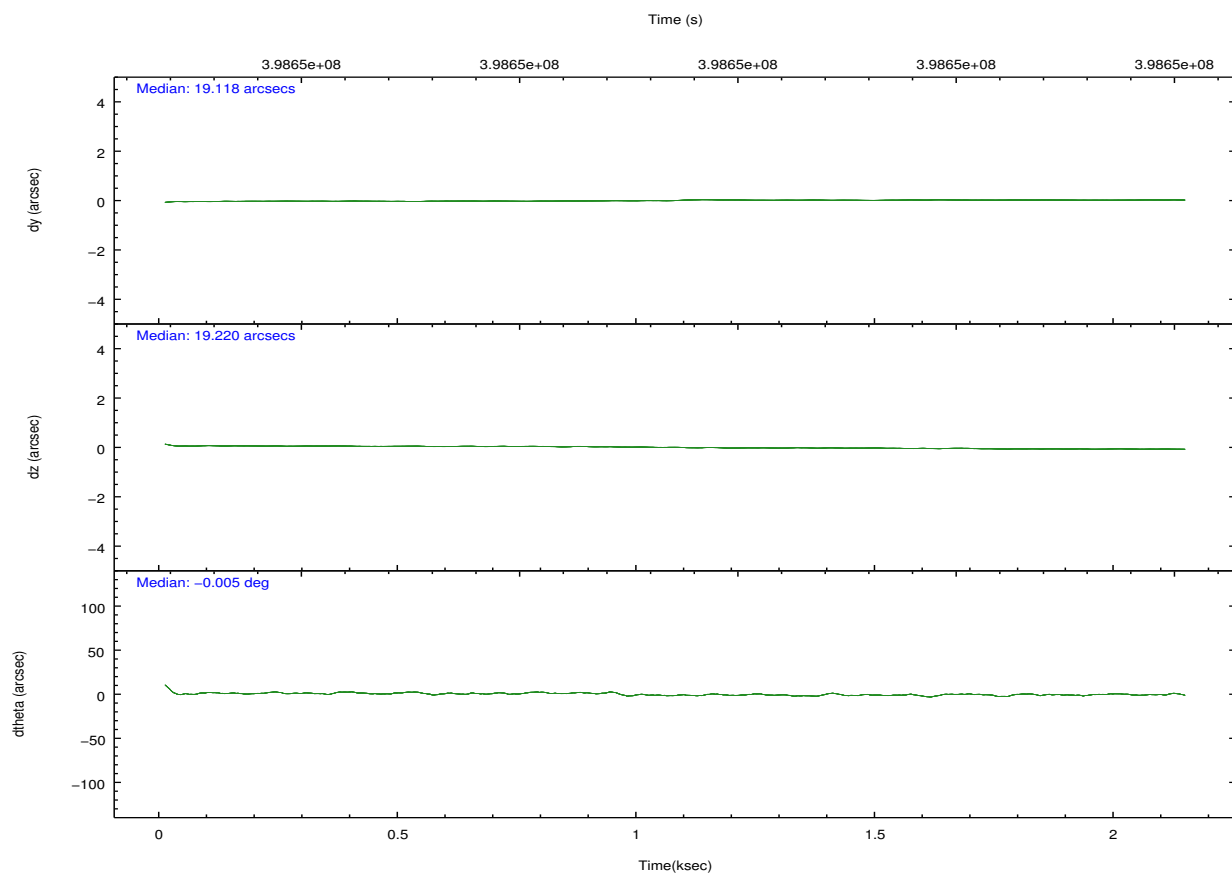
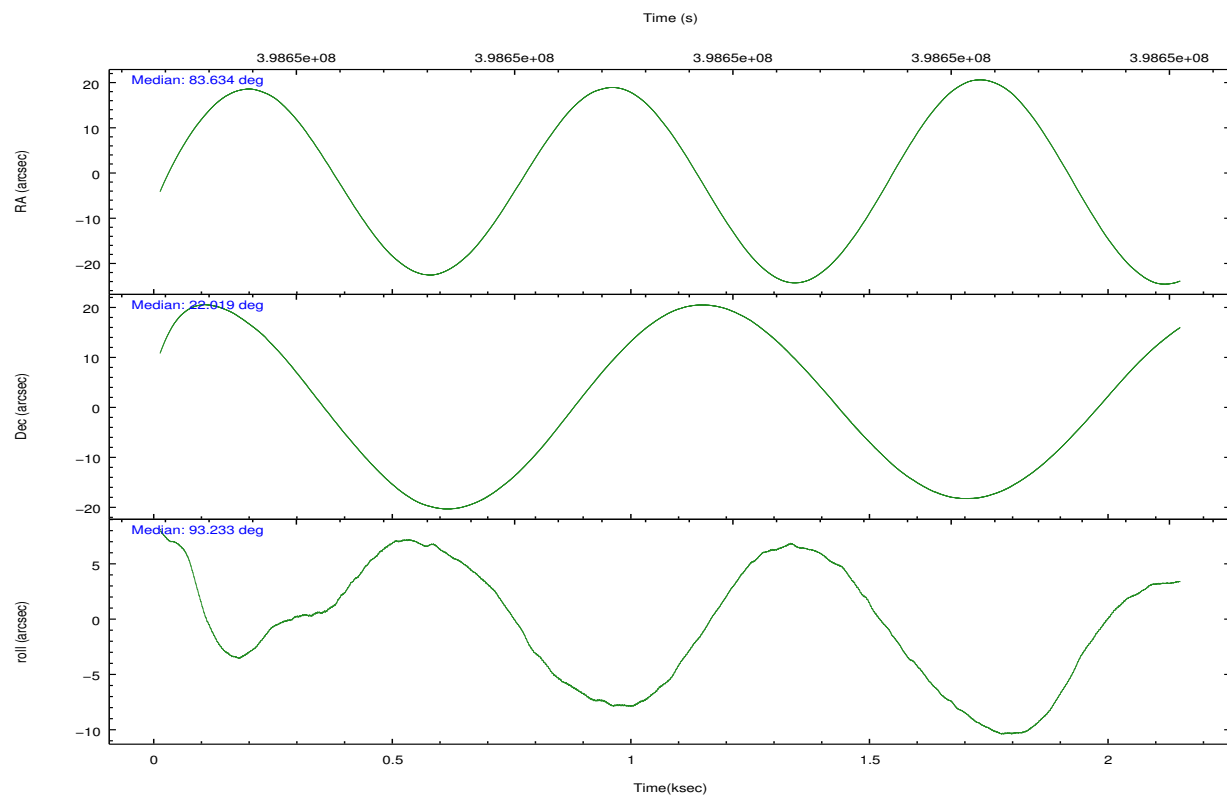
	segment 1	segment 2	segment 3
level 1 events	32	93926	13
rejected events	14	29060	13
rejected %	43%	30%	100%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	83.651355	83.63333734354927			
[deg] Pointing Dec	21.996032	22.01913314954835			
[deg] Pointing Roll	93.163045	93.2371306469024			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	398650935.184000	398649527.17697			
Observation start date	2010-08-20T00:21:09	2010-08-19T23:58:47			
[s] Observation end time (MET)	398652935.184000	398653943.3897			
Observation end date	2010-08-20T00:54:29	2010-08-20T01:12:23			

2.3 Aspect



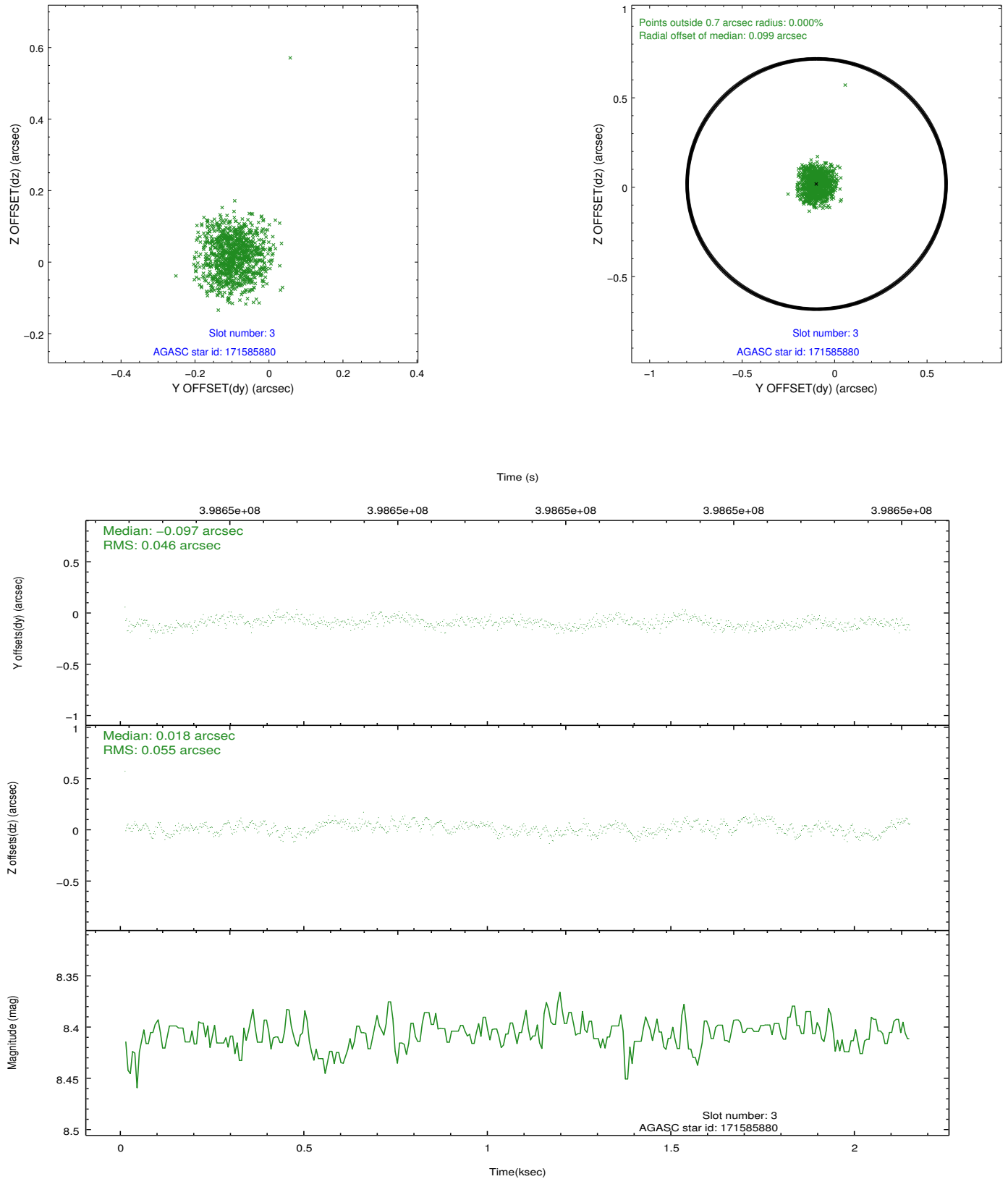


Slot Statistics

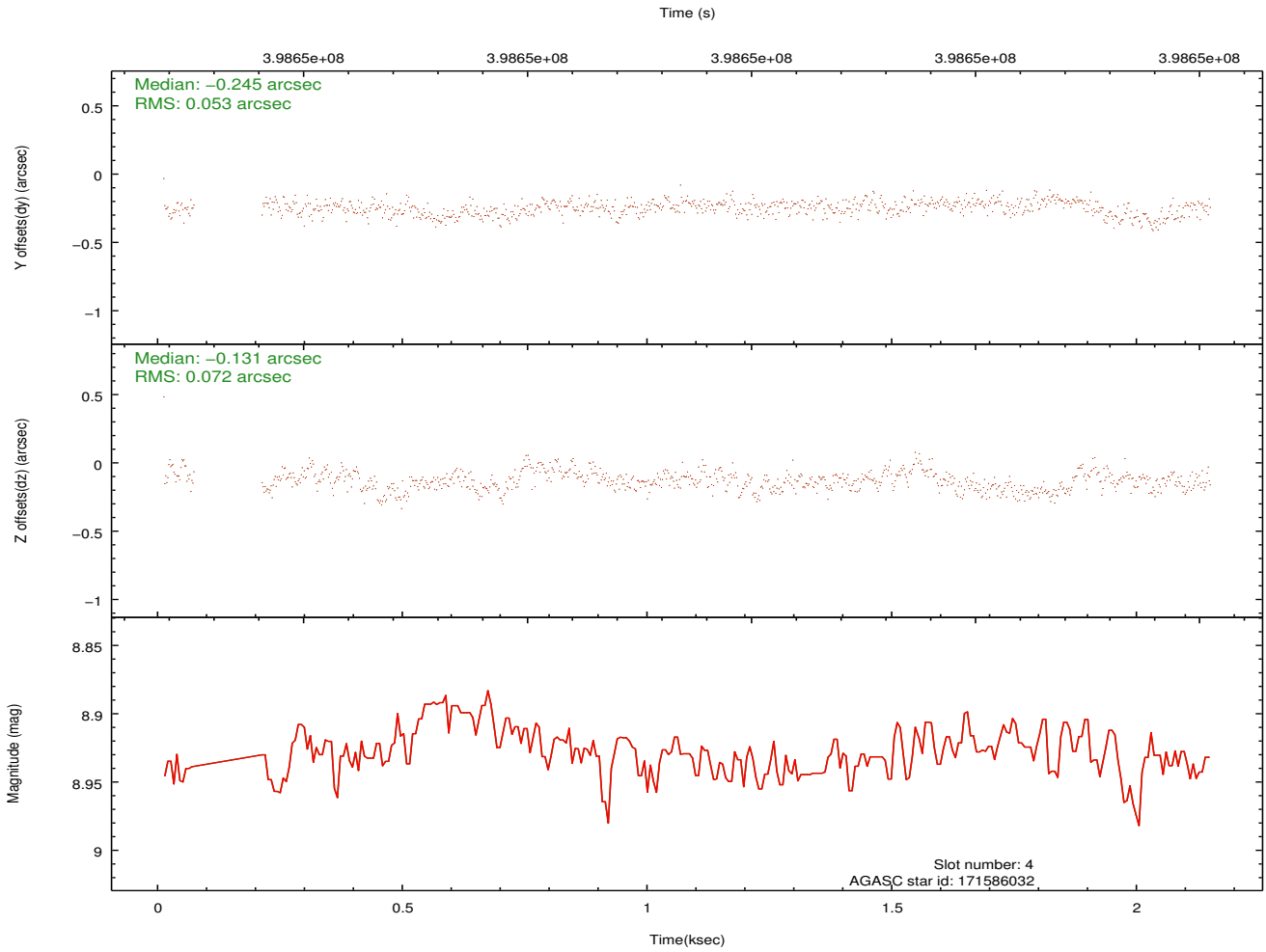
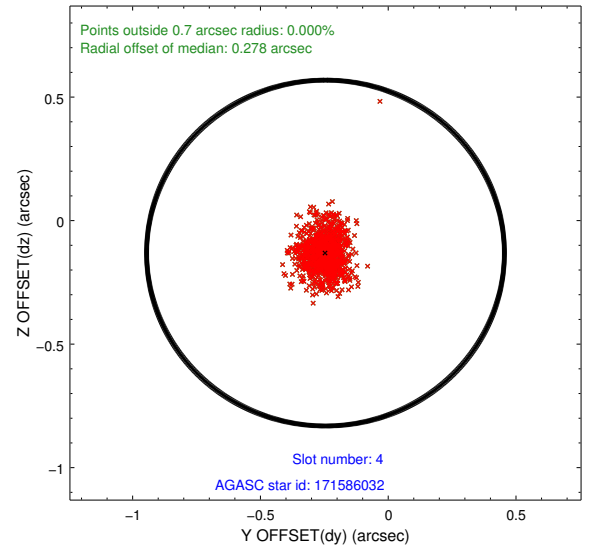
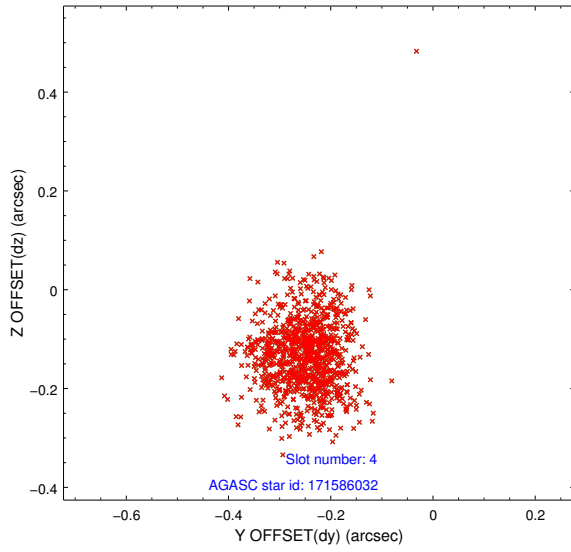
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.06	522	0.024	-0.269	0.006	0.011	0.000000	0.000000	-1173.66	-468.36
1	FID	HRC-S-3	7.06	522	0.097	0.027	0.009	0.014	0.000000	0.000000	-1178.59	560.57
2	FID	HRC-S-4	7.00	522	0.266	-0.054	0.006	0.011	0.000000	0.000000	1222.55	565.10
3	GUIDE	171585880	8.41	1043	-0.097	0.018	0.076	0.118	83.676260	22.176319	644.05	-117.76
4	BAD	171586032	8.93	976	-0.245	-0.131	0.092	0.155	83.950197	22.083225	261.99	-1012.92
5	GUIDE	171597832	9.15	1041	0.345	-0.200	0.123	0.207	83.183230	21.366702	-2172.13	1691.56
6	GUIDE	171721904	9.18	1040	0.043	0.170	0.124	0.202	84.272676	22.116922	323.15	-2090.49
7	GUIDE	243941560	8.30	1043	-0.065	0.128	0.079	0.134	83.733264	22.568598	2043.92	-386.28

2.4 Star Slots

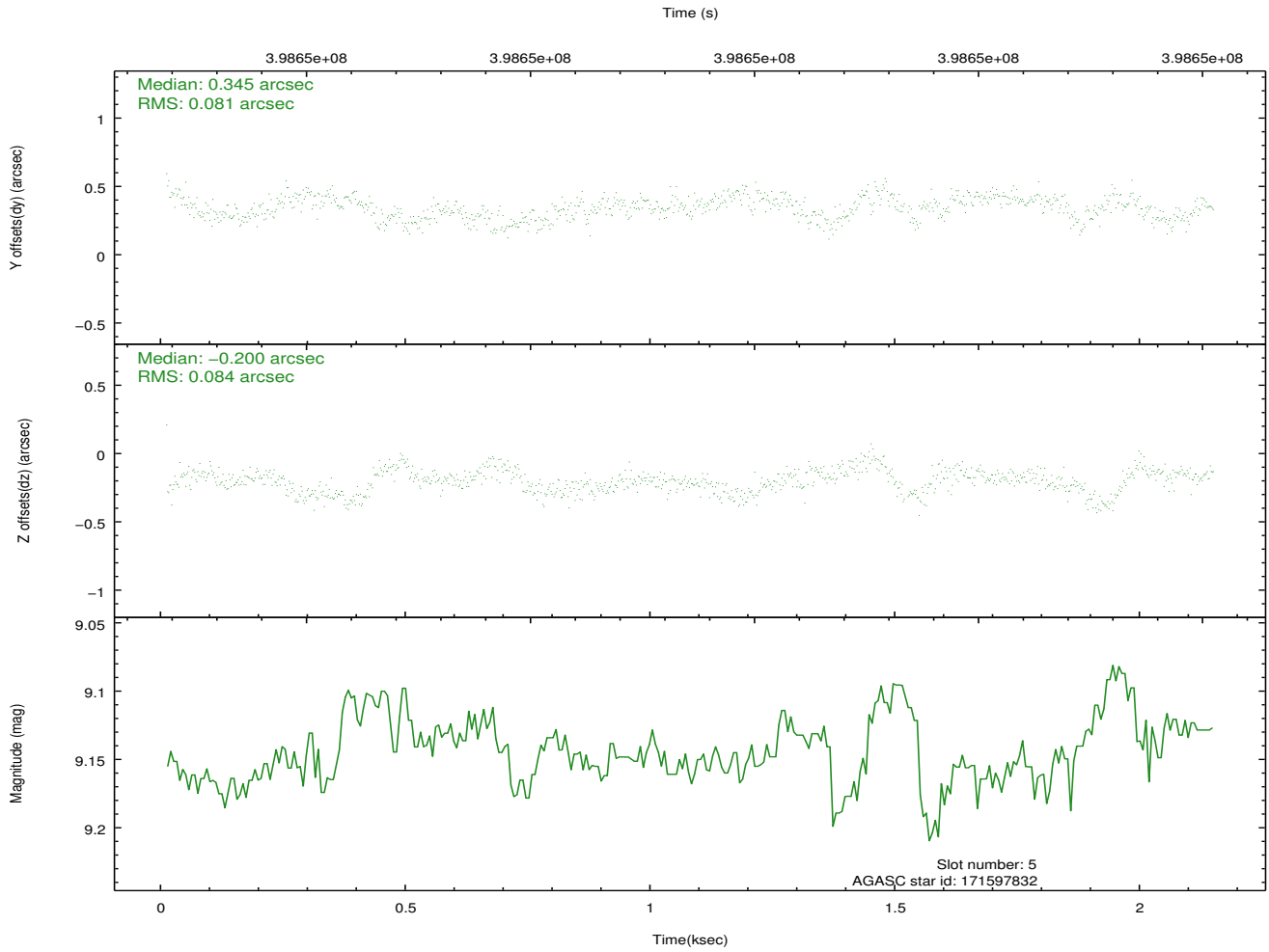
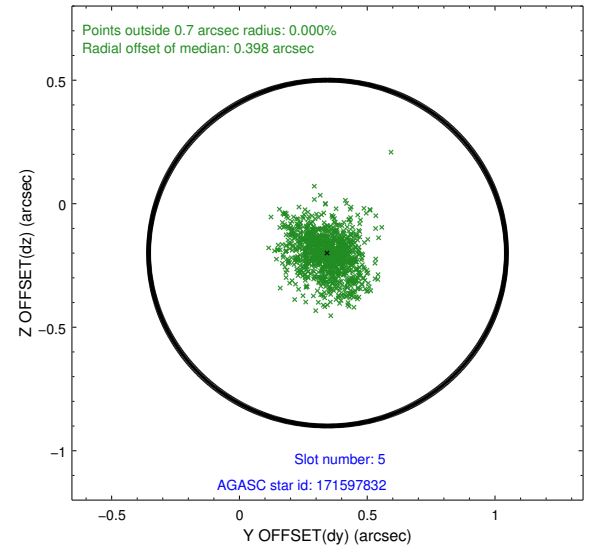
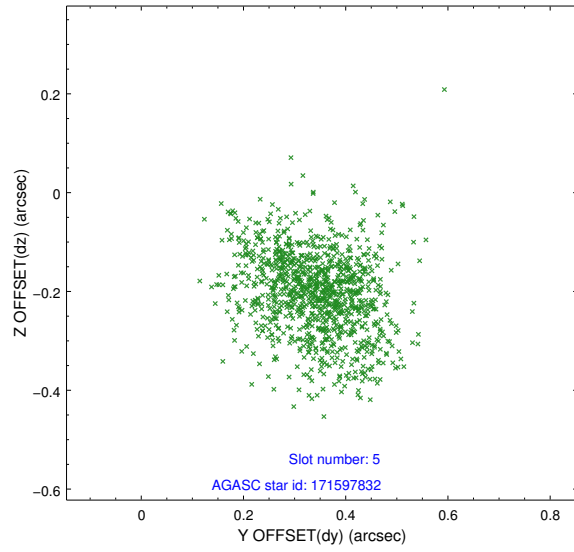
2.4.1 Slot 3



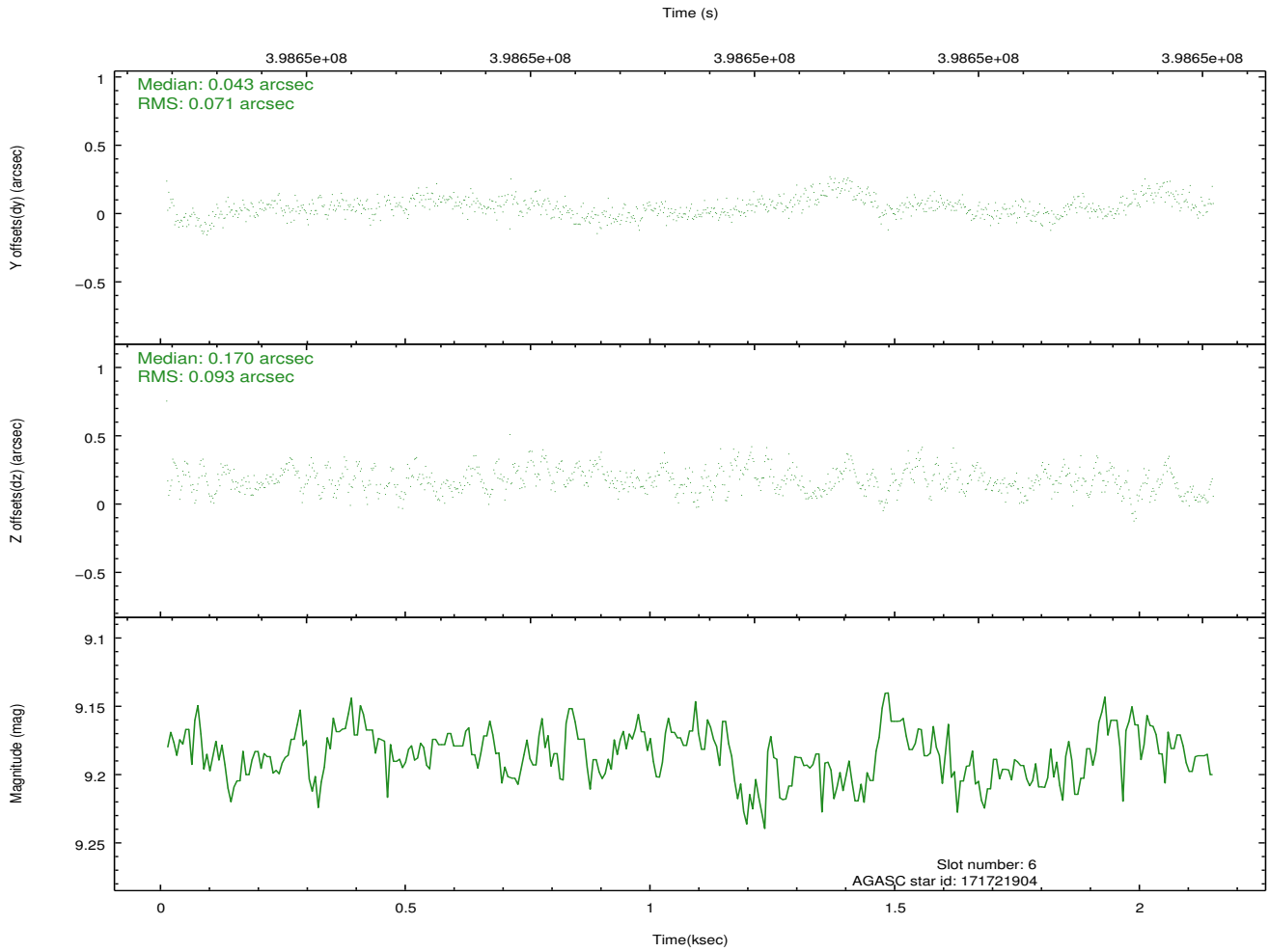
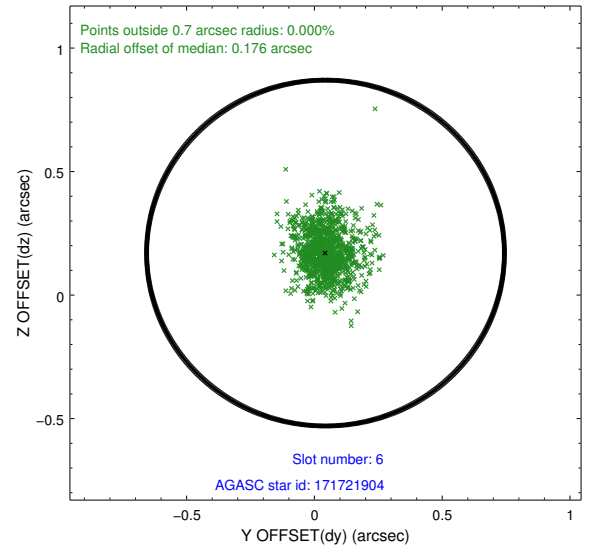
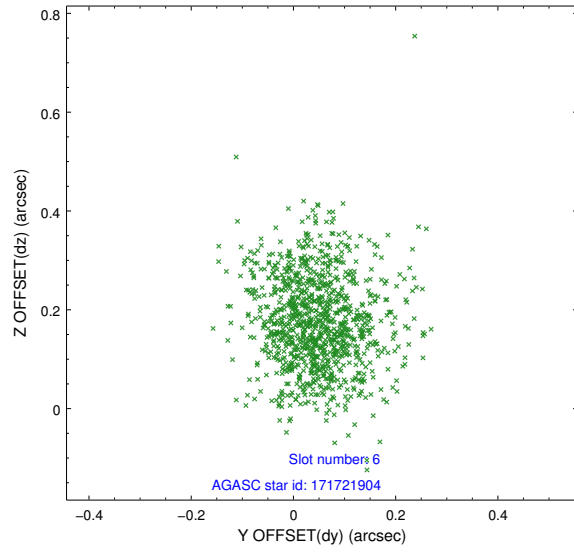
2.4.2 Slot 4



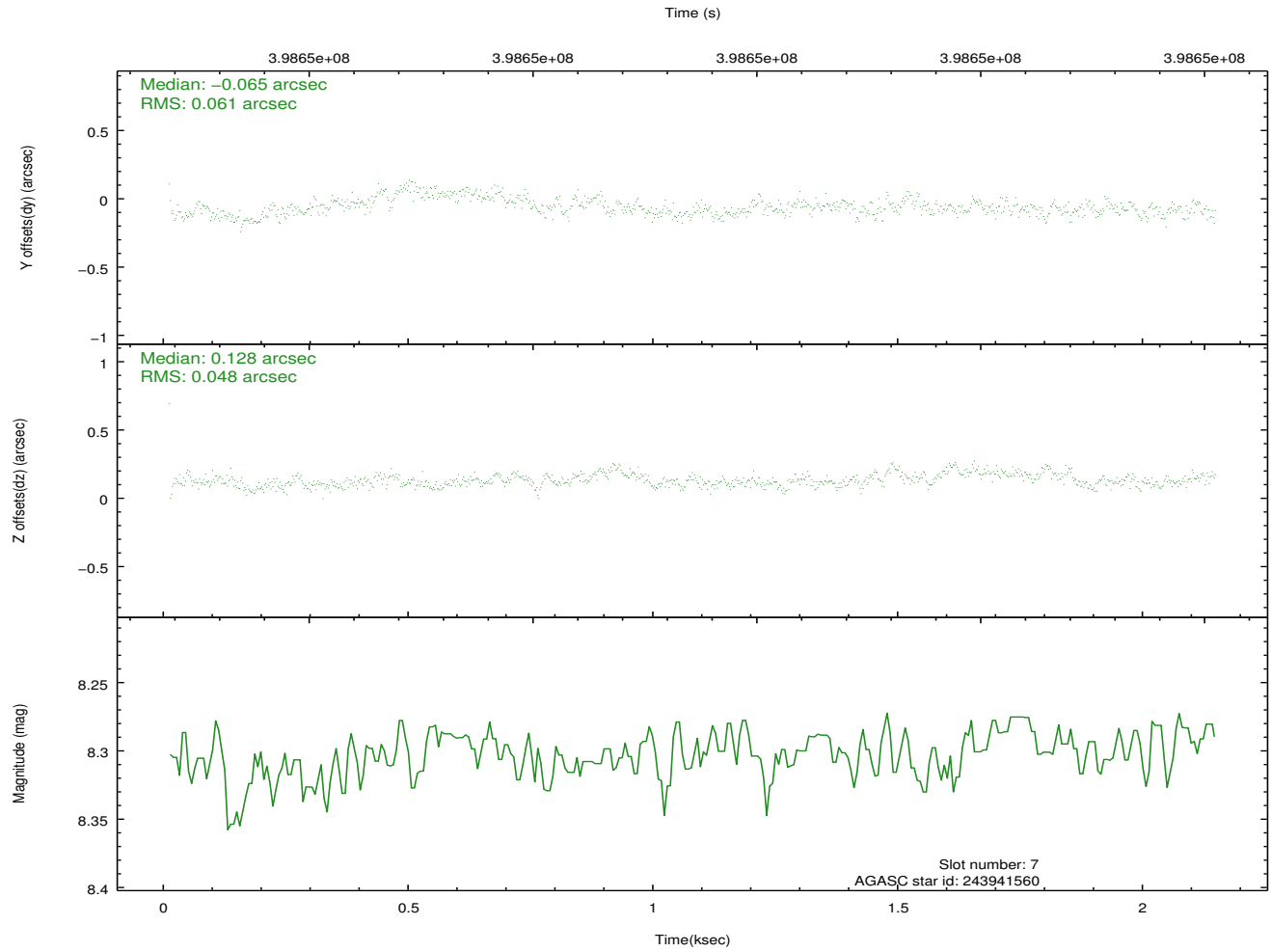
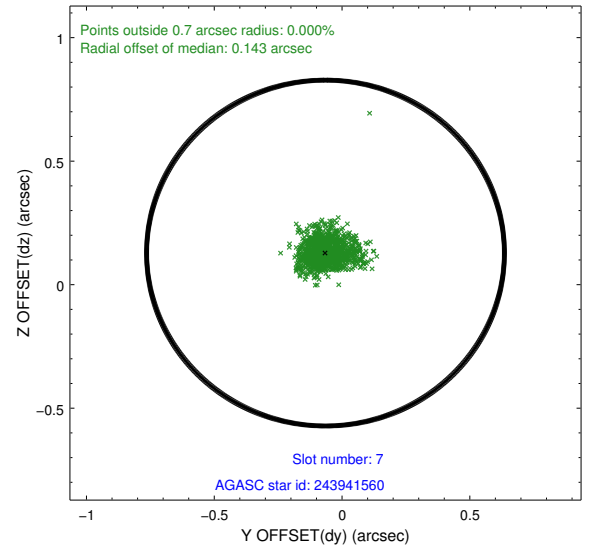
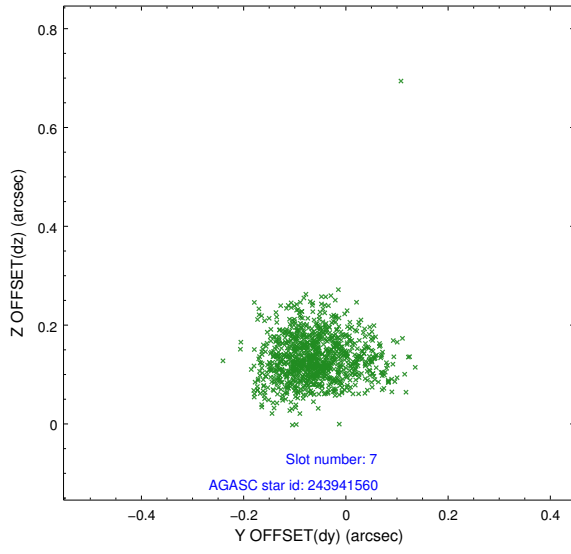
2.4.3 Slot 5



2.4.4 Slot 6

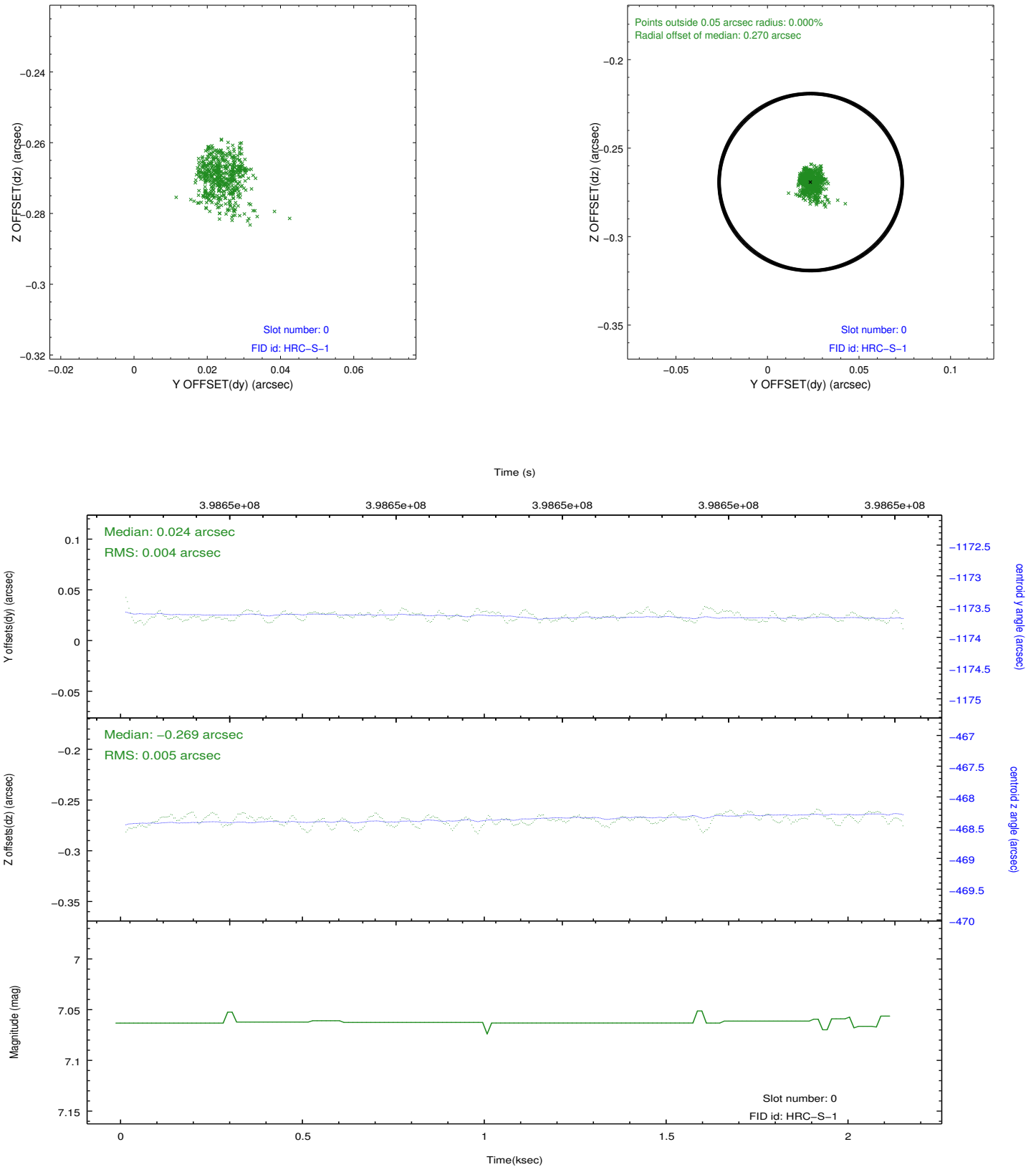


2.4.5 Slot 7

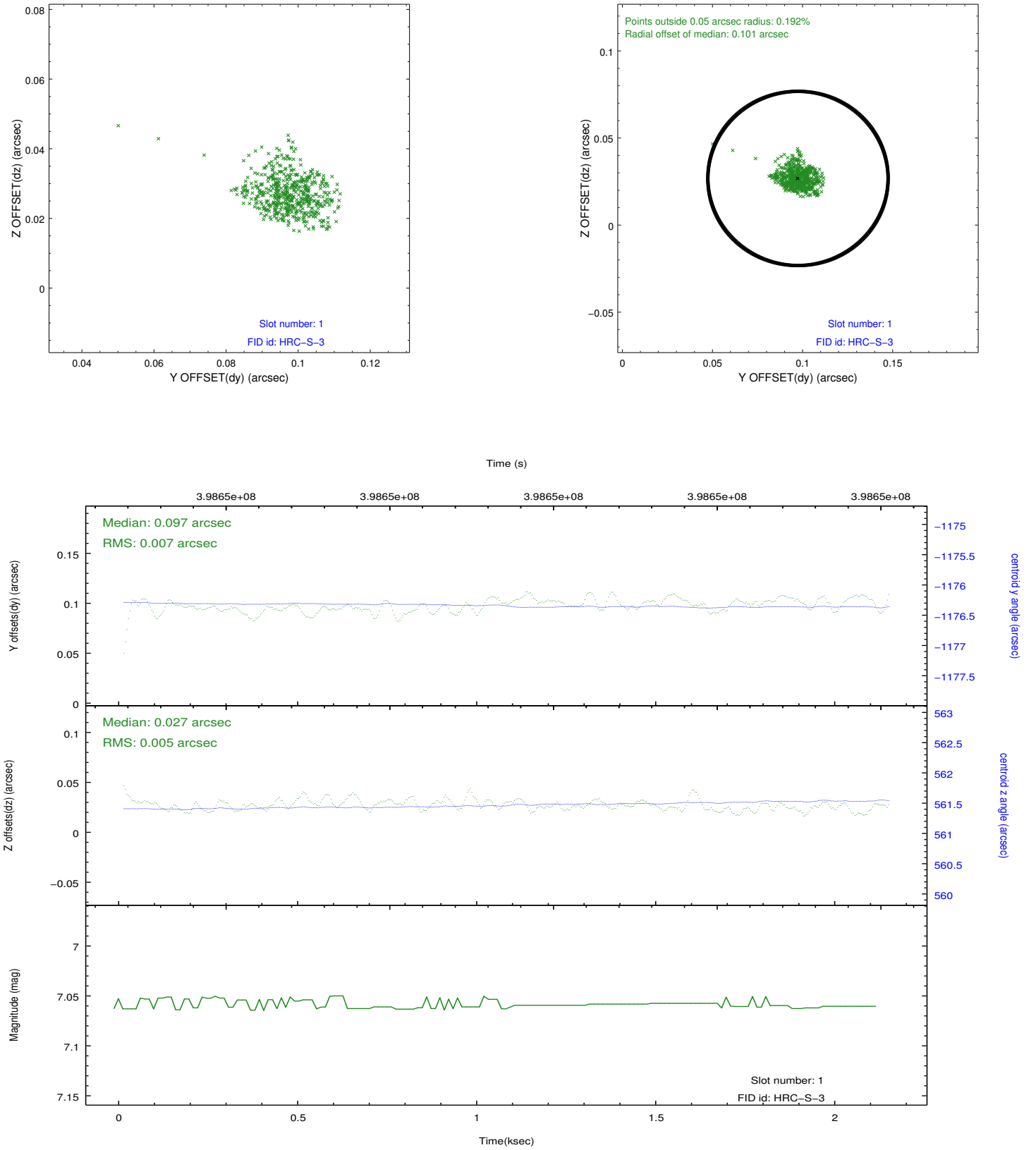


2.5 FID Slots

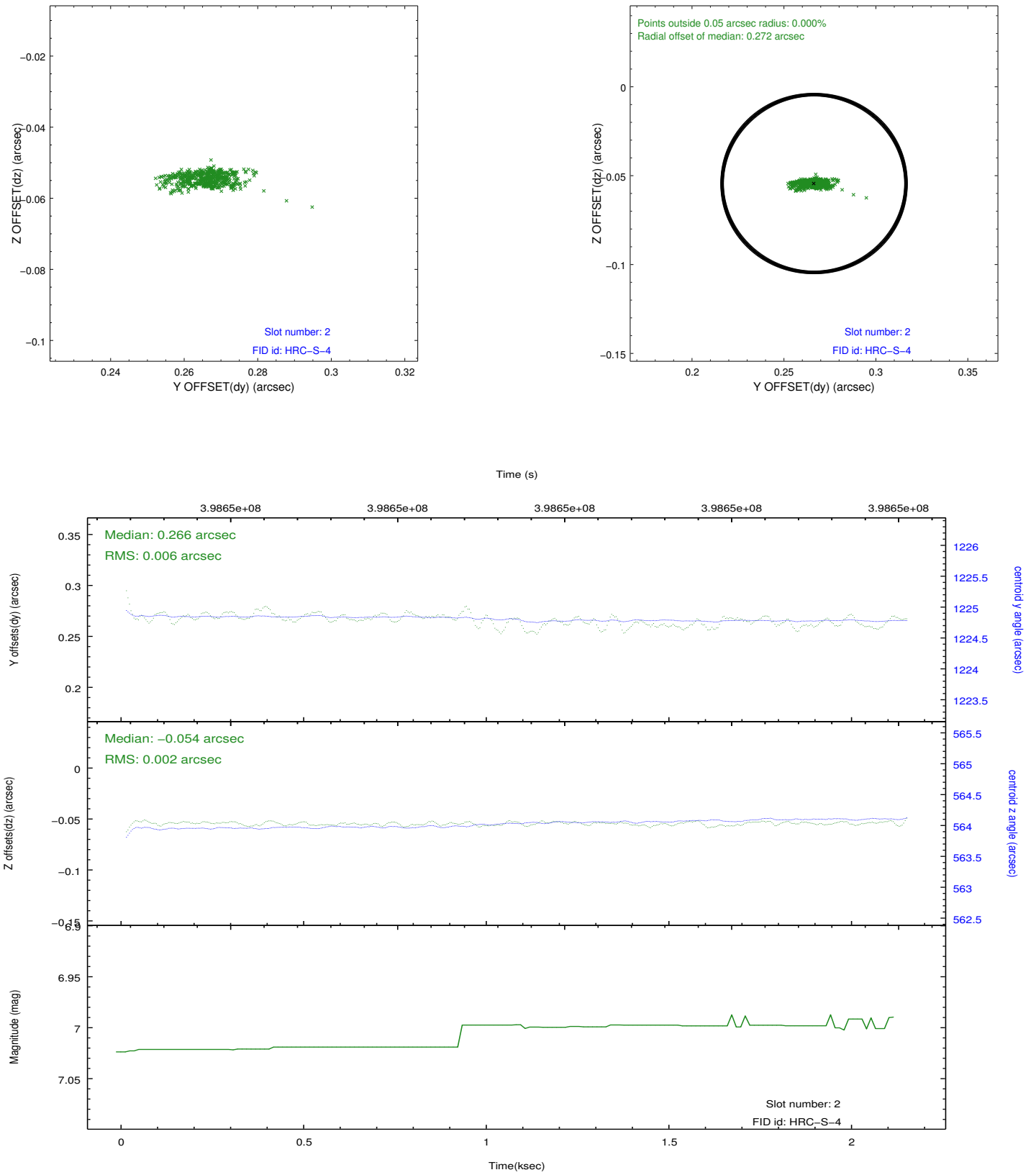
2.5.1 Slot 0



2.5.2 Slot 1

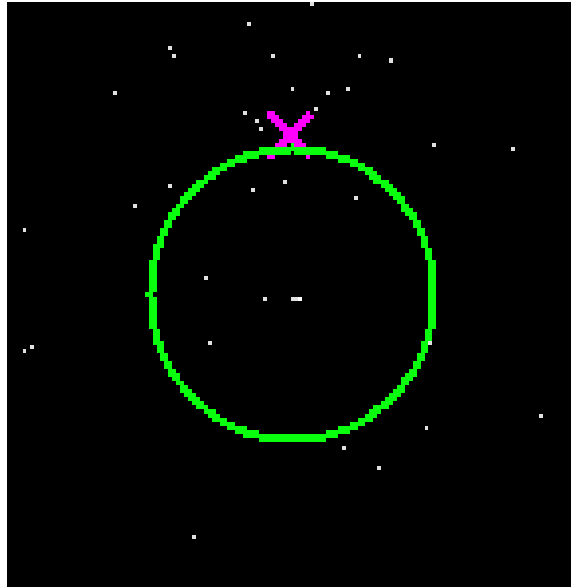


2.5.3 Slot 2

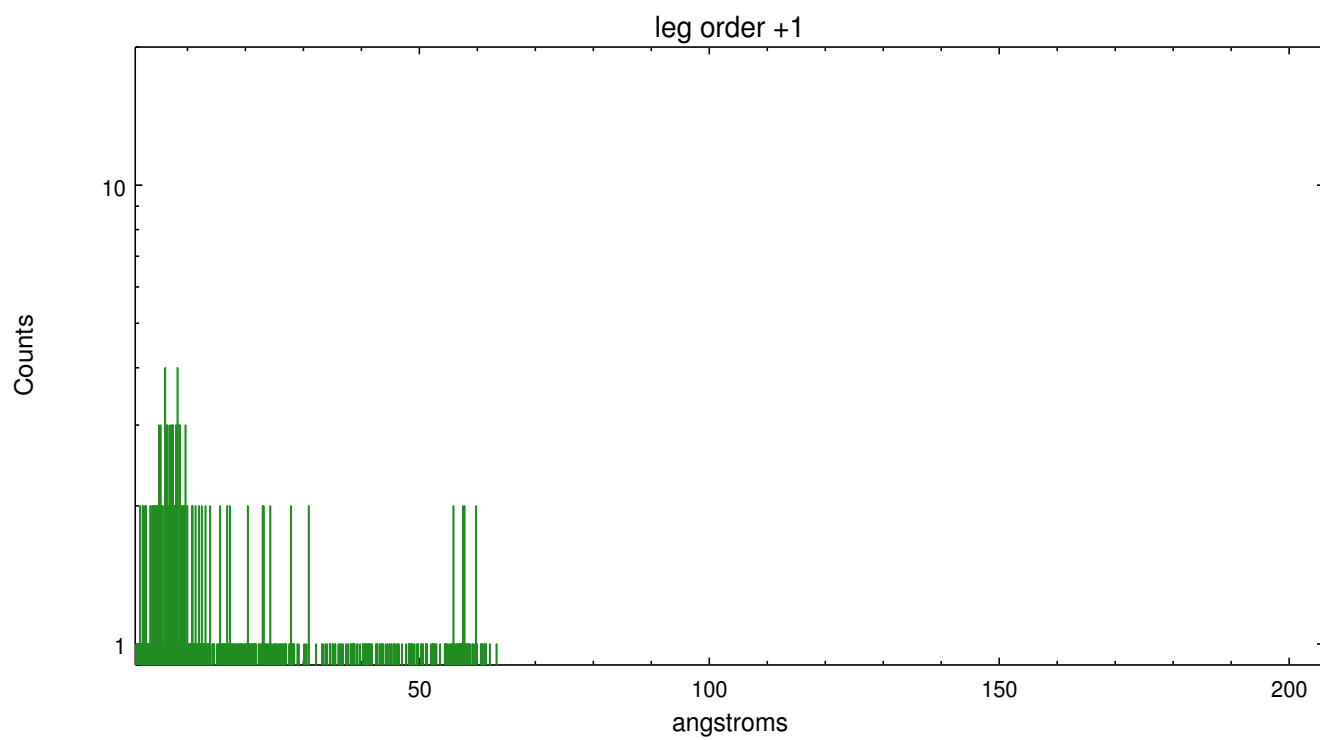
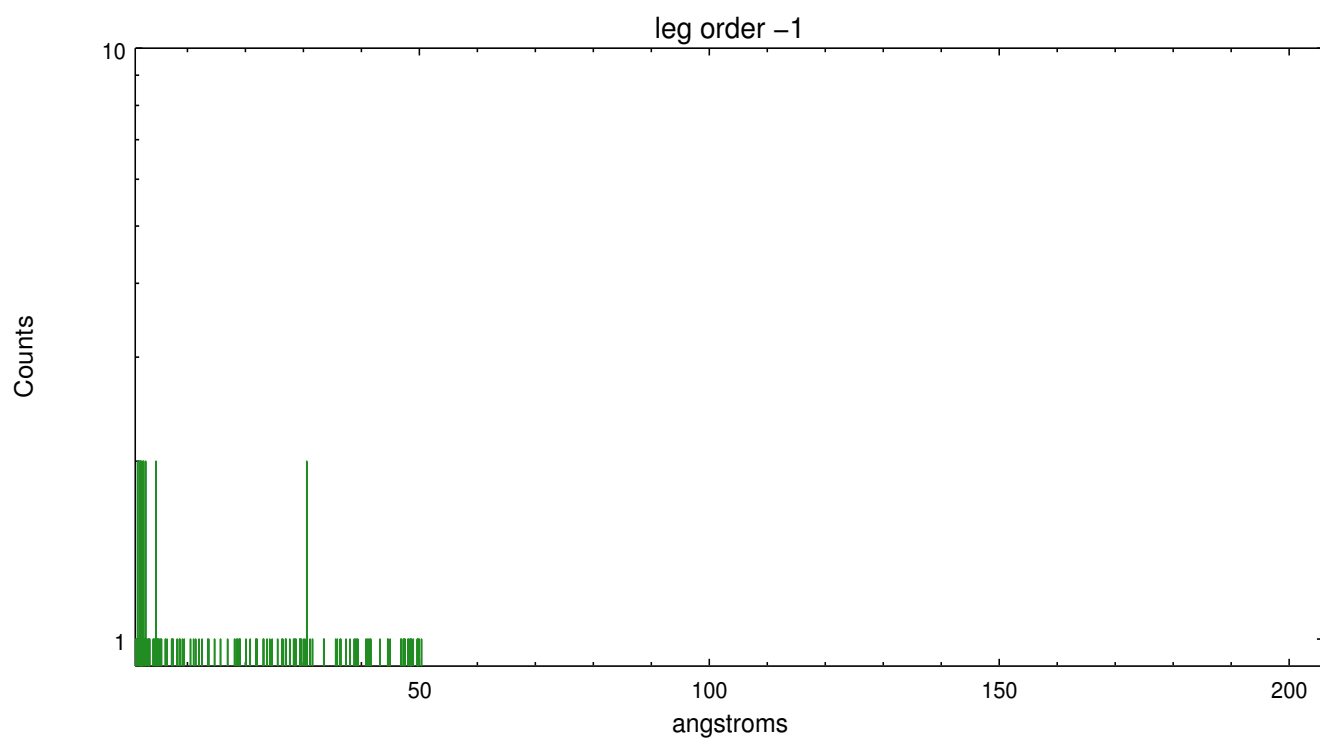


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.07.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.1368688594699

A.2 Comments

This observation is a pathfinder for a future observation. During this observation the threshold values were changed frequently. Below is a table of the threshold values and the start and stop time for each. ===
threshold start stop=== N N N=== 115 398650933.361 398651136.940=== 110
398651136.940 398651337.840=== 105 398651337.840 398651536.690=== 100
398651536.690 398651737.590=== 95 398651737.590 398651938.490=== 90
398651938.490 398652137.340=== 85 398652137.340 398652338.240=== 80
398652338.240 398652537.090=== 75 398652537.090 398652737.990=== 70
398652737.990 398652933.361=== Zeroth order was not successfully
identified by the software. The zeroth order position defaulted to the
user-supplied coordinates for purposes of extracting the spectral data.