

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19466 - L2 Version 1
Chandra X-Ray Center

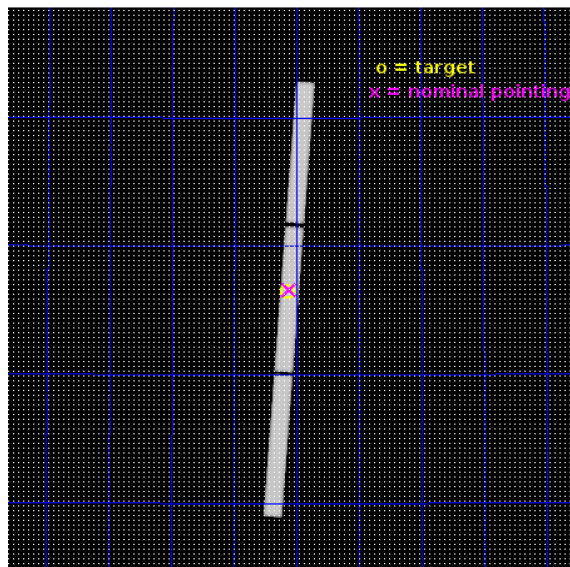
L2 Processing Date : Feb 7 2018

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Gratings	17
3.1	LETG Arm	17
A	Summary	19
A.1	Status	19
A.2	Comments	19

1 Front

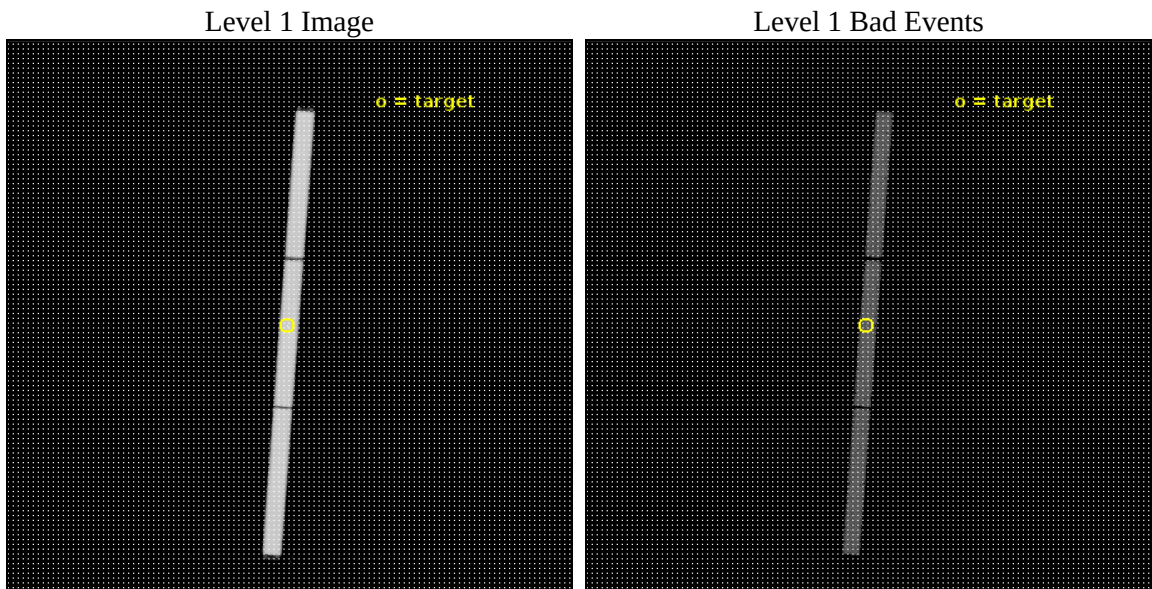
seq_num	703315	Sequence number
obs_id	19466	Observation id
title	Chandra observations of a unique X-ray WHIM absorber towards PG 1116+215	Proposal title
observer	Massimiliano Bonamente	Principal investigator
object	PG 1116+215	Source name
ra_targ	169.78625	Observer's specified target RA [deg]
dec_targ	21.321667	Observer's specified target Dec [deg]
ra_nom	169.77851284202	Nominal RA [deg]
dec_nom	21.330368634448	Nominal Dec [deg]
roll_nom	94.070117962281	Nominal Roll [deg]
revision	1	Processing version of data
ontime	33080.851947308	[s]
livetime	32736.099334762	Ontime multiplied by DTCOR
l2events	2811546	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	33500.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	33080.851947308	[s]
caldsver	4.7.7	 	l1events	3579926	Number of level 1 events
date	2018-02-07T14:22:13	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32568.49, 32525.50)	src1a sky pixel position

2.1.3 Events

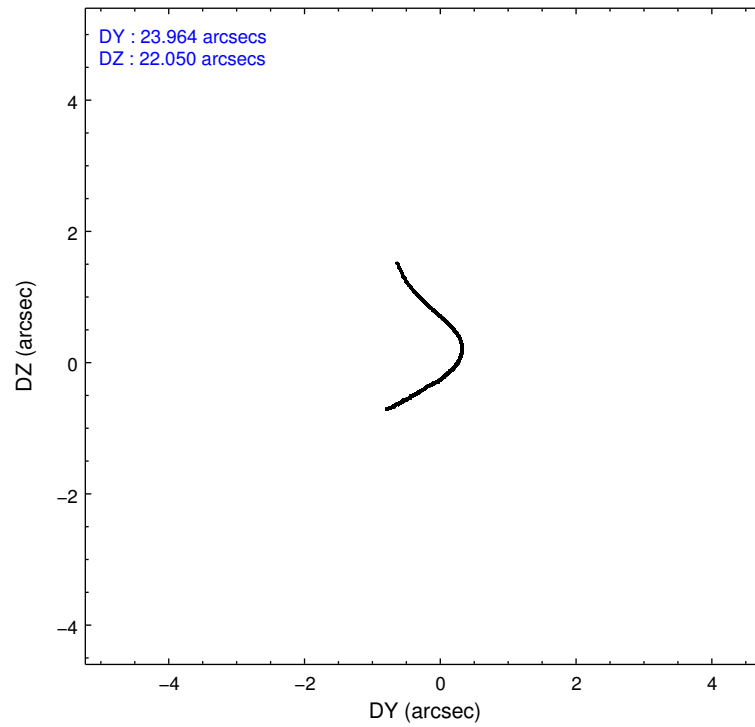
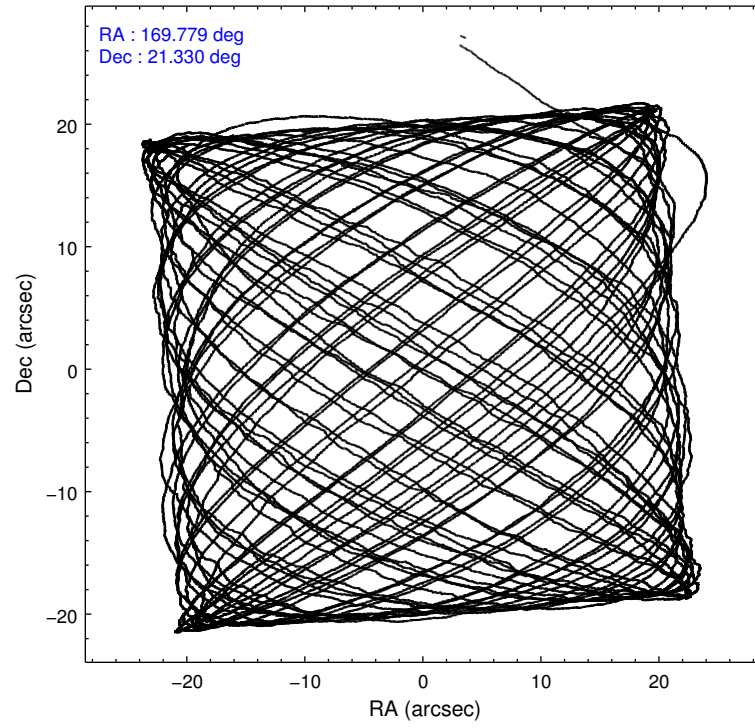
Level 1 Events

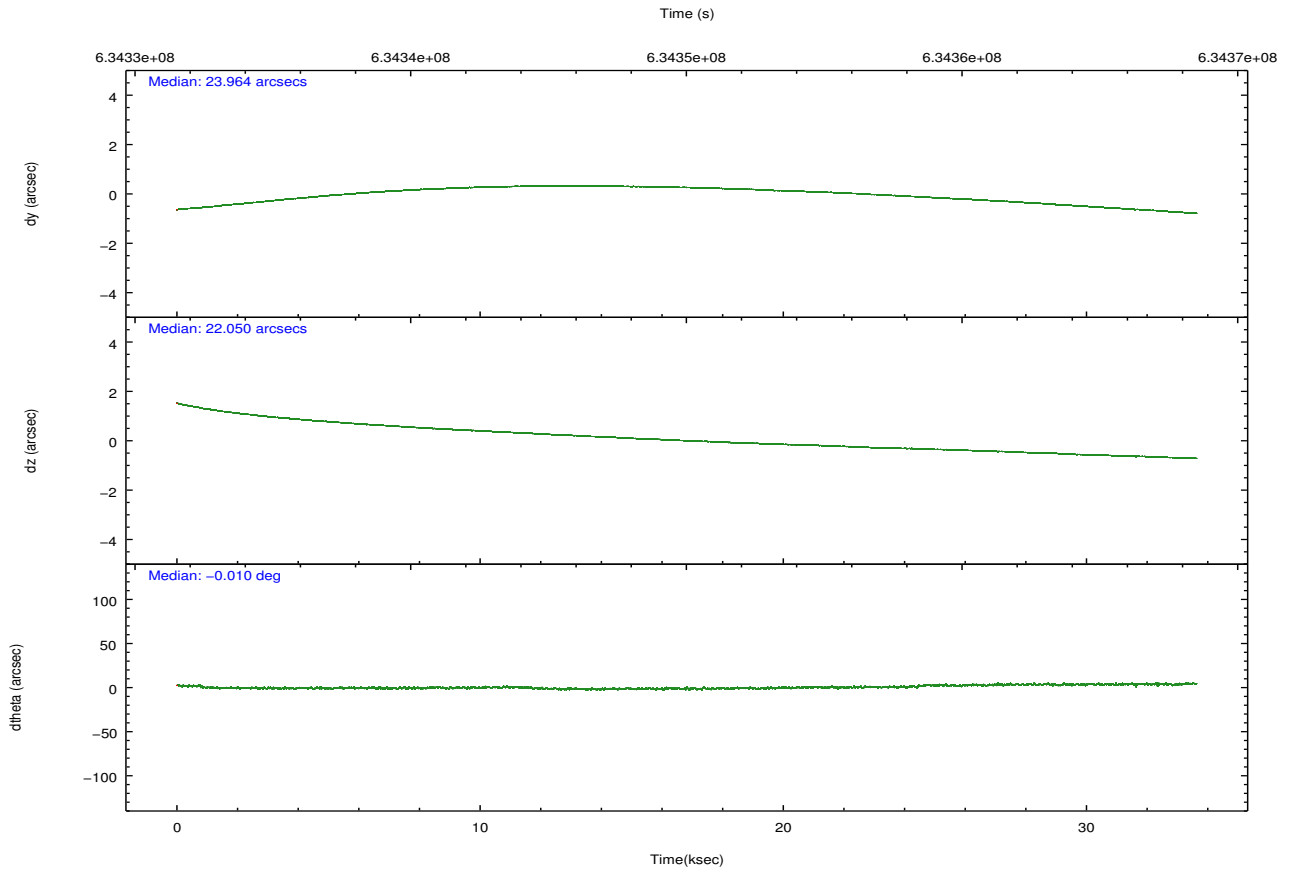
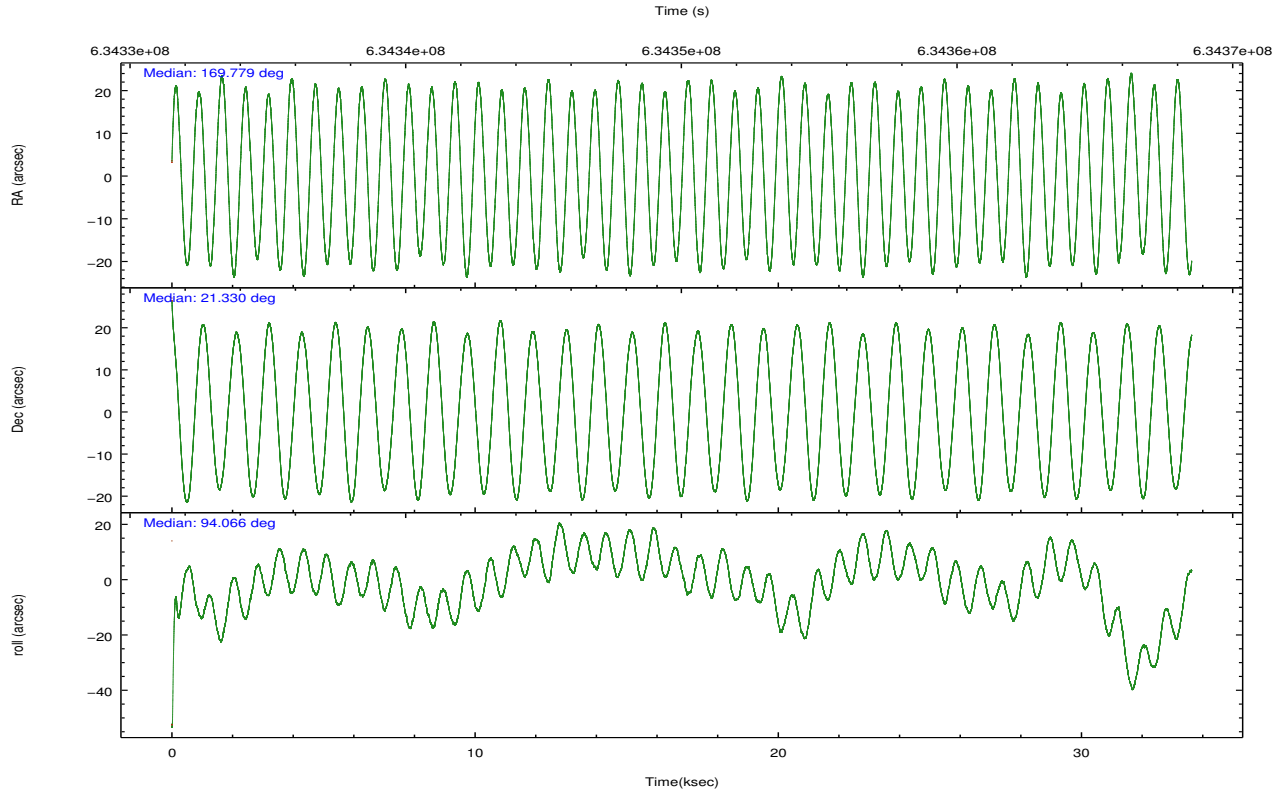
	segment 1	segment 2	segment 3
level 1 events	1191447	1200822	1187657
rejected events	33804	34388	33986
rejected %	2%	2%	2%

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	169.797085	169.7785128420213			
[deg] Pointing Dec	21.307274	21.33036863444849			
[deg] Pointing Roll	93.996061	94.07011796228072			
[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)	634333353.184000	634332643.68923			
Observation start date	2018-02-06T19:41:24	2018-02-06T19:30:43			
[s] Observation end time (MET)	634366853.184000	634367724.8288			
Observation end date	2018-02-07T04:59:44	2018-02-07T05:15:24			

2.3 Aspect



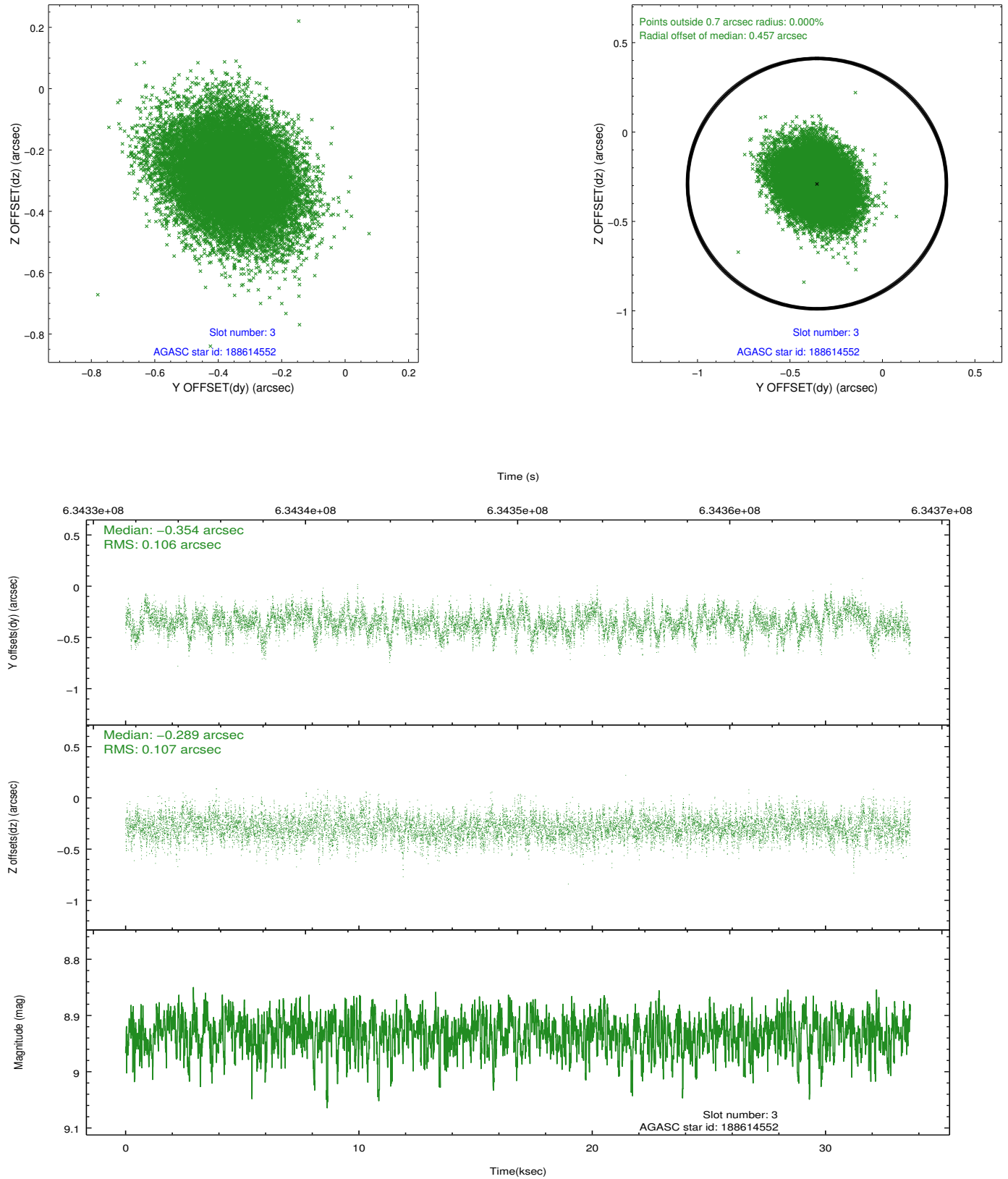


Slot Statistics

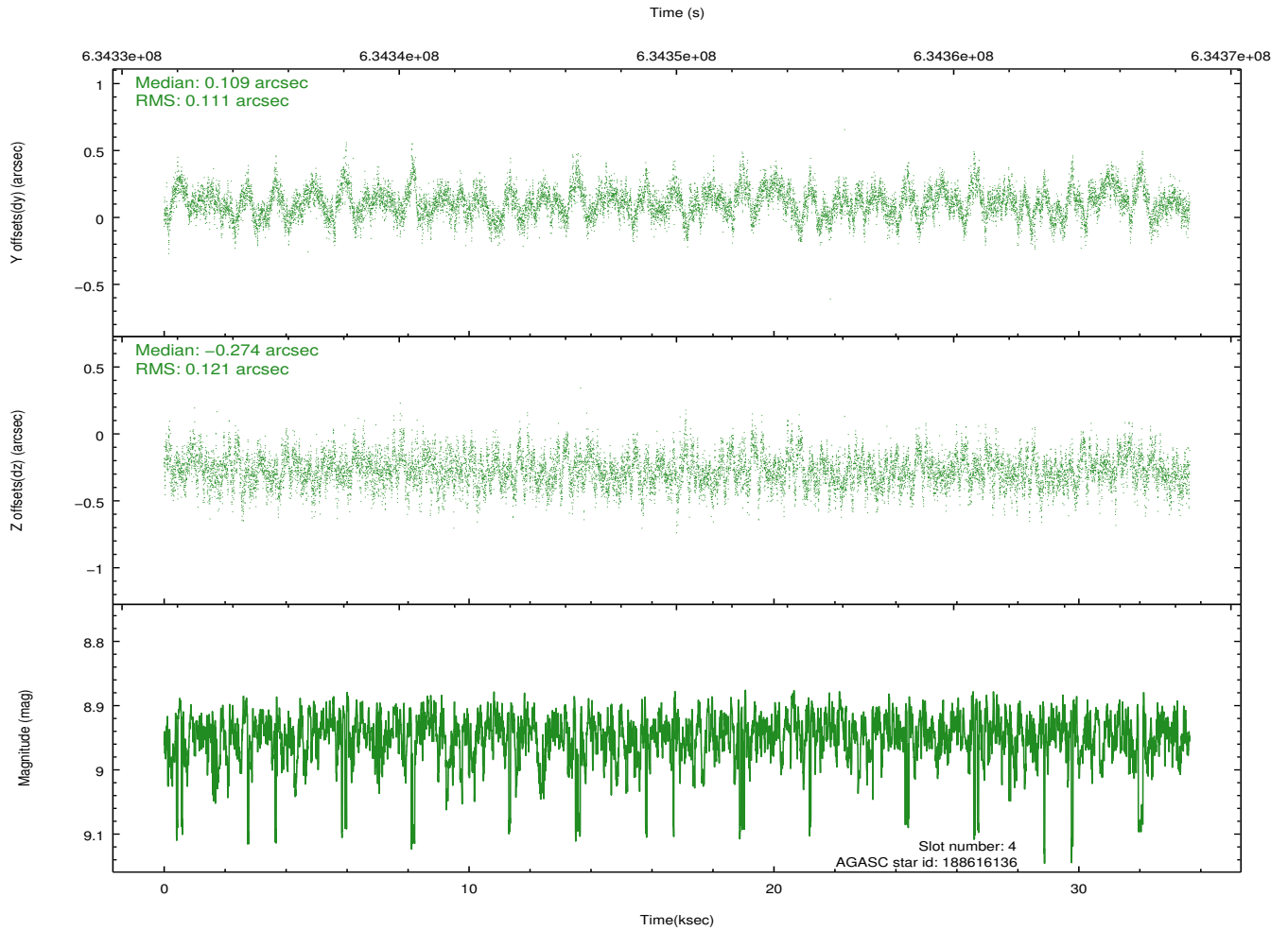
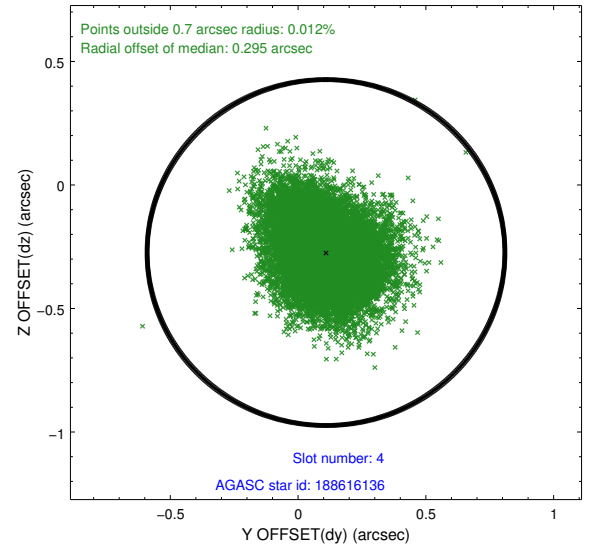
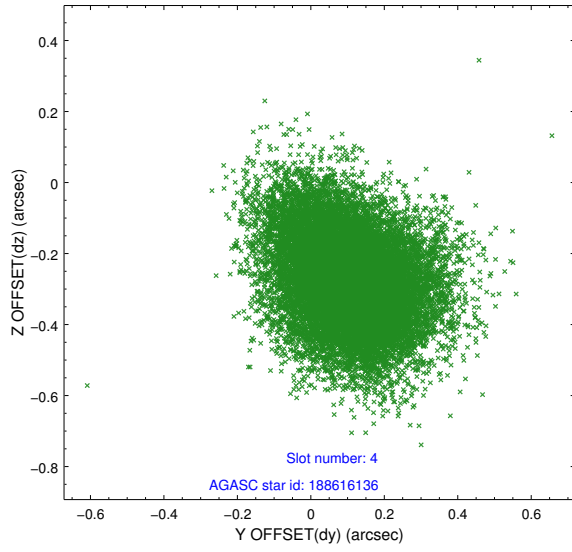
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.11	8203	-0.088	-0.166	0.018	0.032	0.000000	0.000000	-1178.63	-471.39
1	FID		HRC-S-2	7.08	8204	0.422	-0.131	0.012	0.027	0.000000	0.000000	1221.41	-463.78
2	FID		HRC-S-3	7.09	8201	0.056	-0.005	0.016	0.027	0.000000	0.000000	-1181.18	558.25
3	GUIDE	used	188614552	8.93	16394	-0.354	-0.289	0.160	0.260	169.490657	21.468678	652.41	983.98
4	GUIDE	used	188616136	8.94	16392	0.109	-0.274	0.173	0.288	169.590378	21.286471	-26.29	696.30
5	GUIDE	used	188622880	7.59	16405	-0.173	0.086	0.134	0.226	170.025103	21.913955	2125.82	-911.60
6	GUIDE	used	188623472	7.06	16408	0.207	0.380	0.127	0.223	169.895324	20.725289	-2112.04	-183.25
7	GUIDE	used	188614832	9.12	16378	0.217	0.090	0.213	0.360	170.375801	21.987686	2312.69	-2097.32

2.4 Star Slots

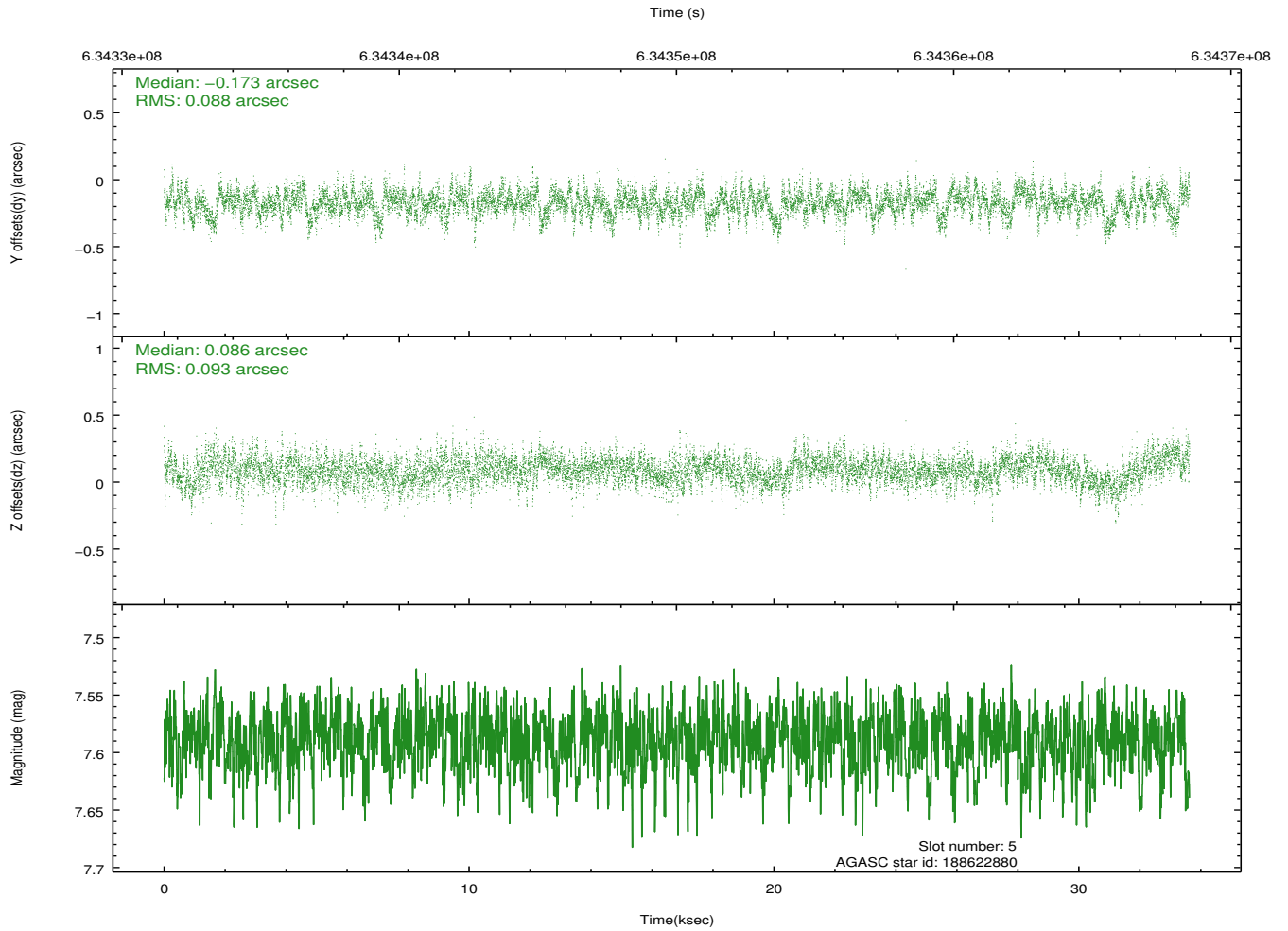
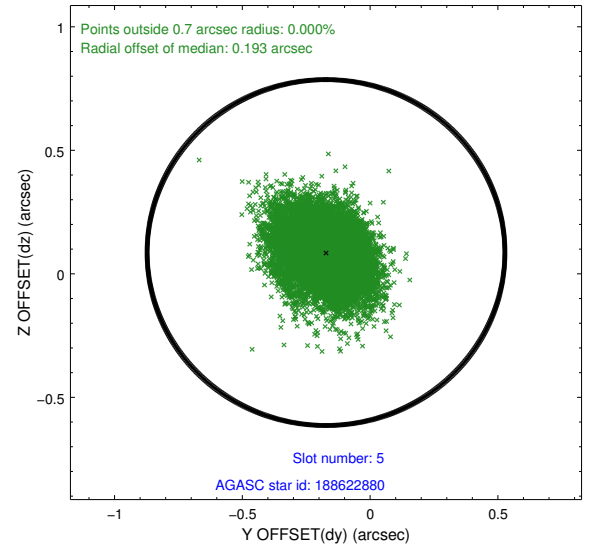
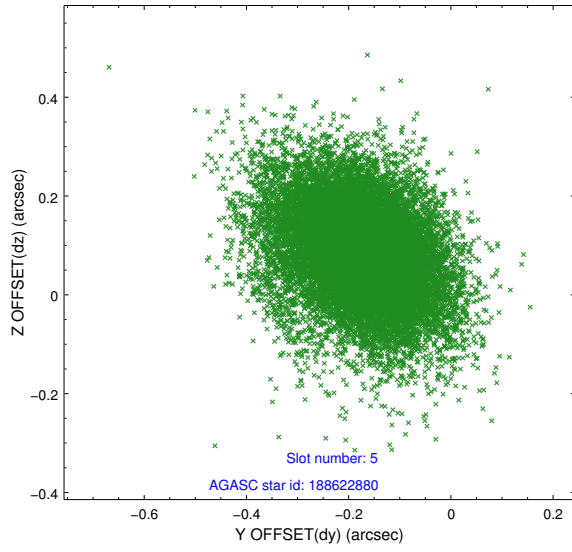
2.4.1 Slot 3



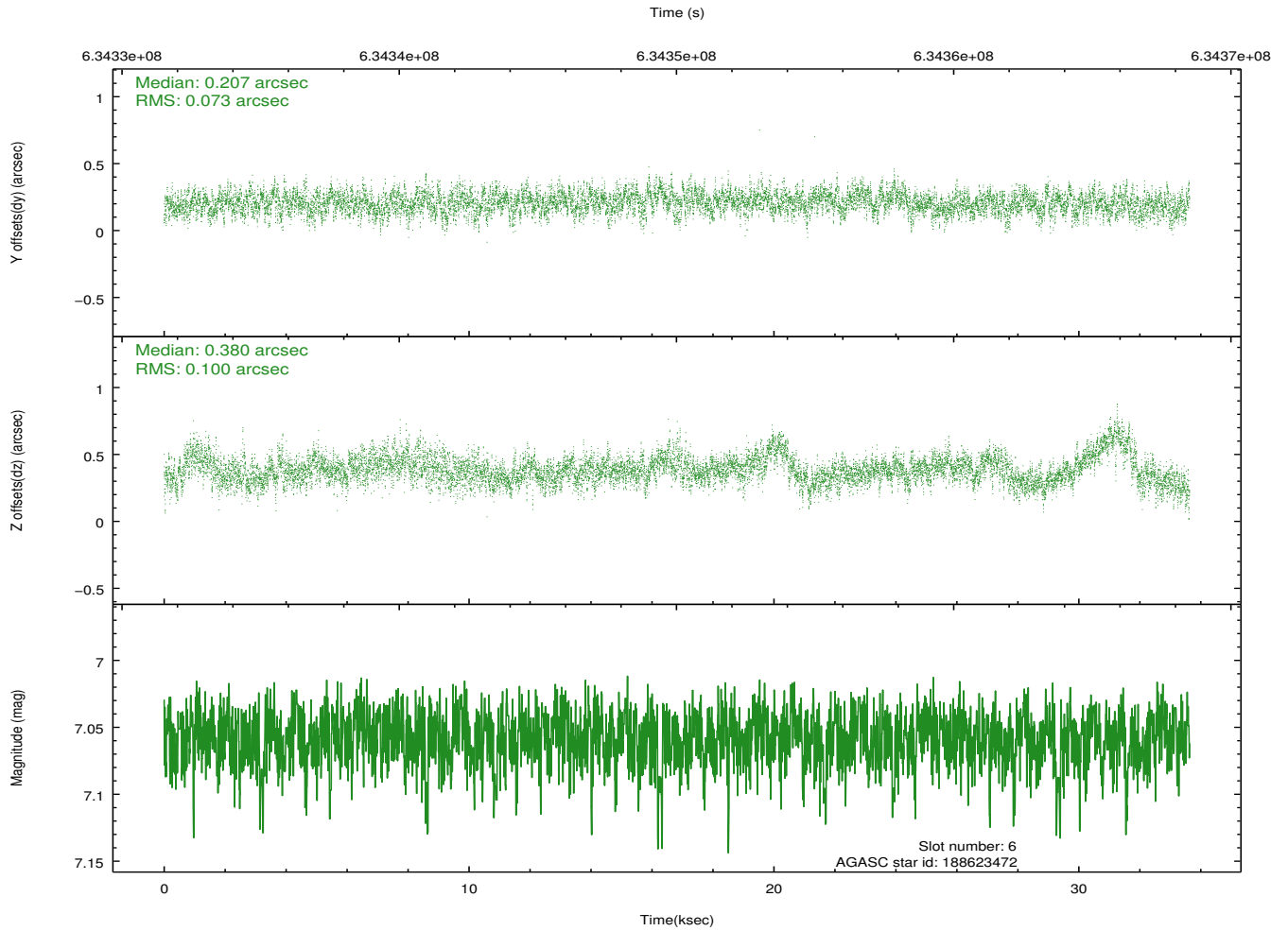
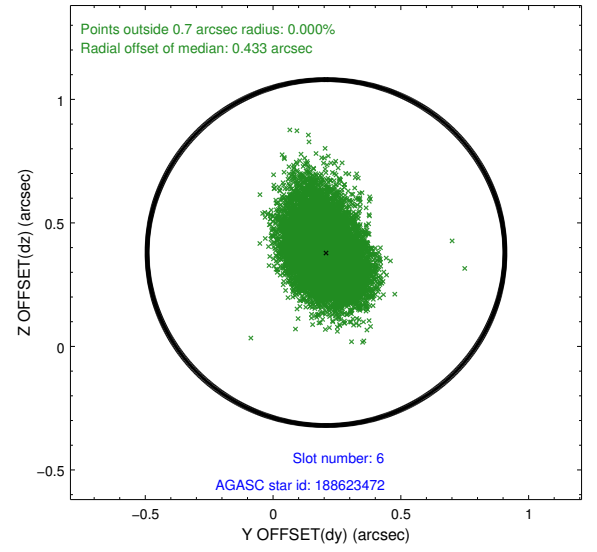
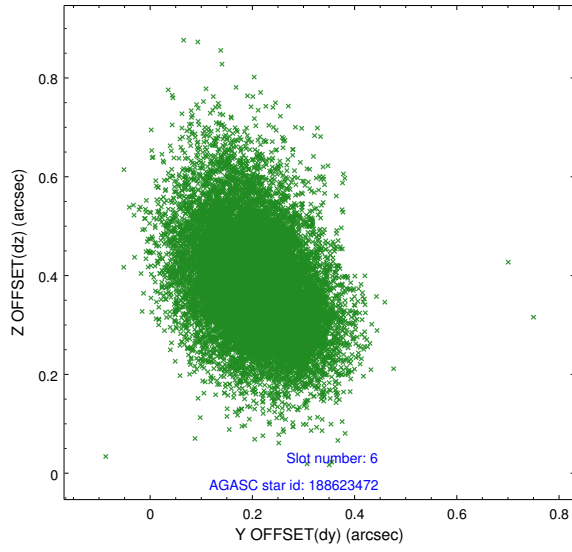
2.4.2 Slot 4



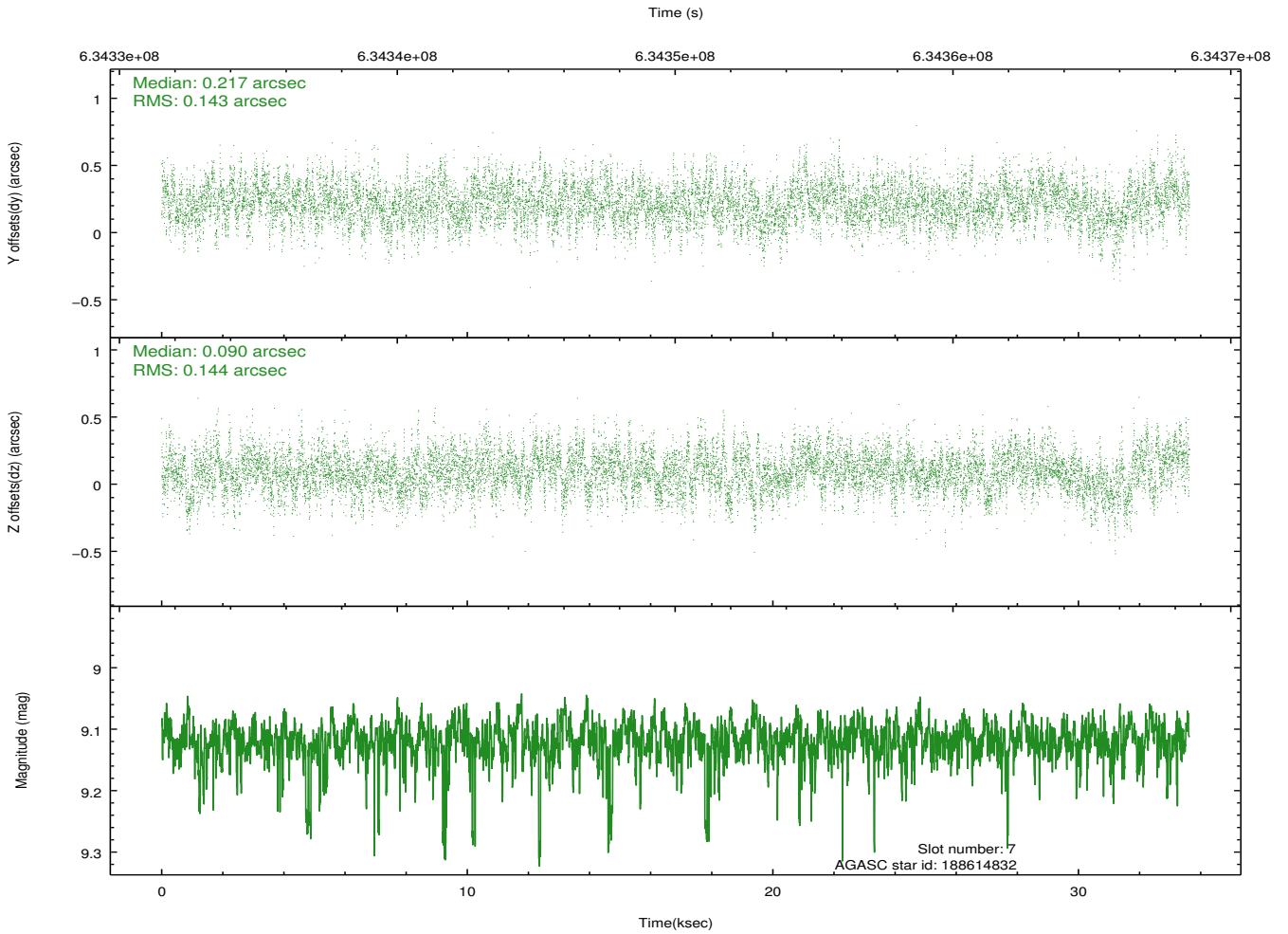
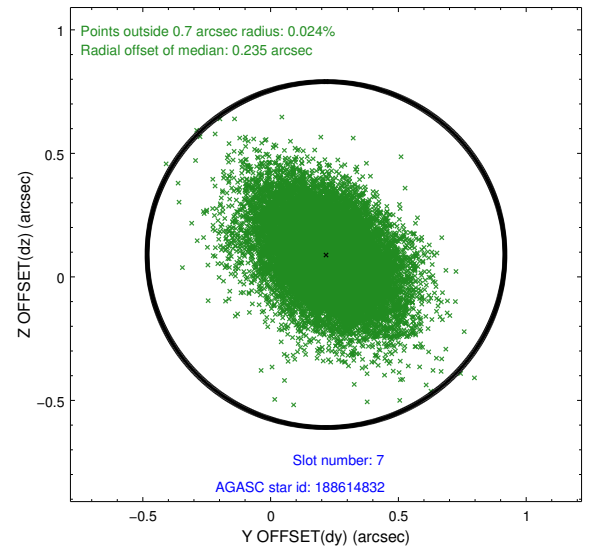
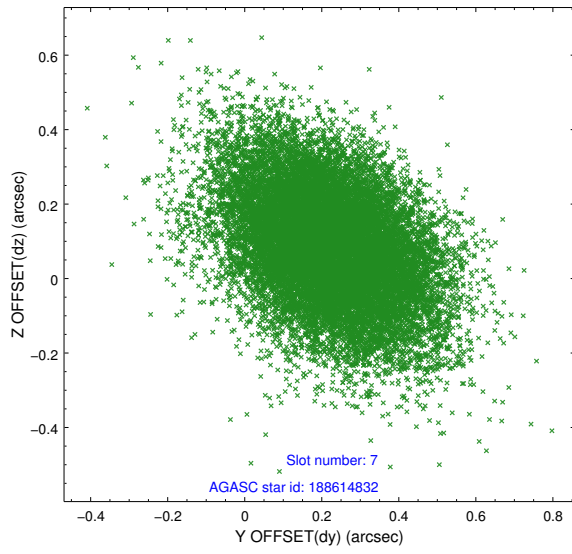
2.4.3 Slot 5



2.4.4 Slot 6

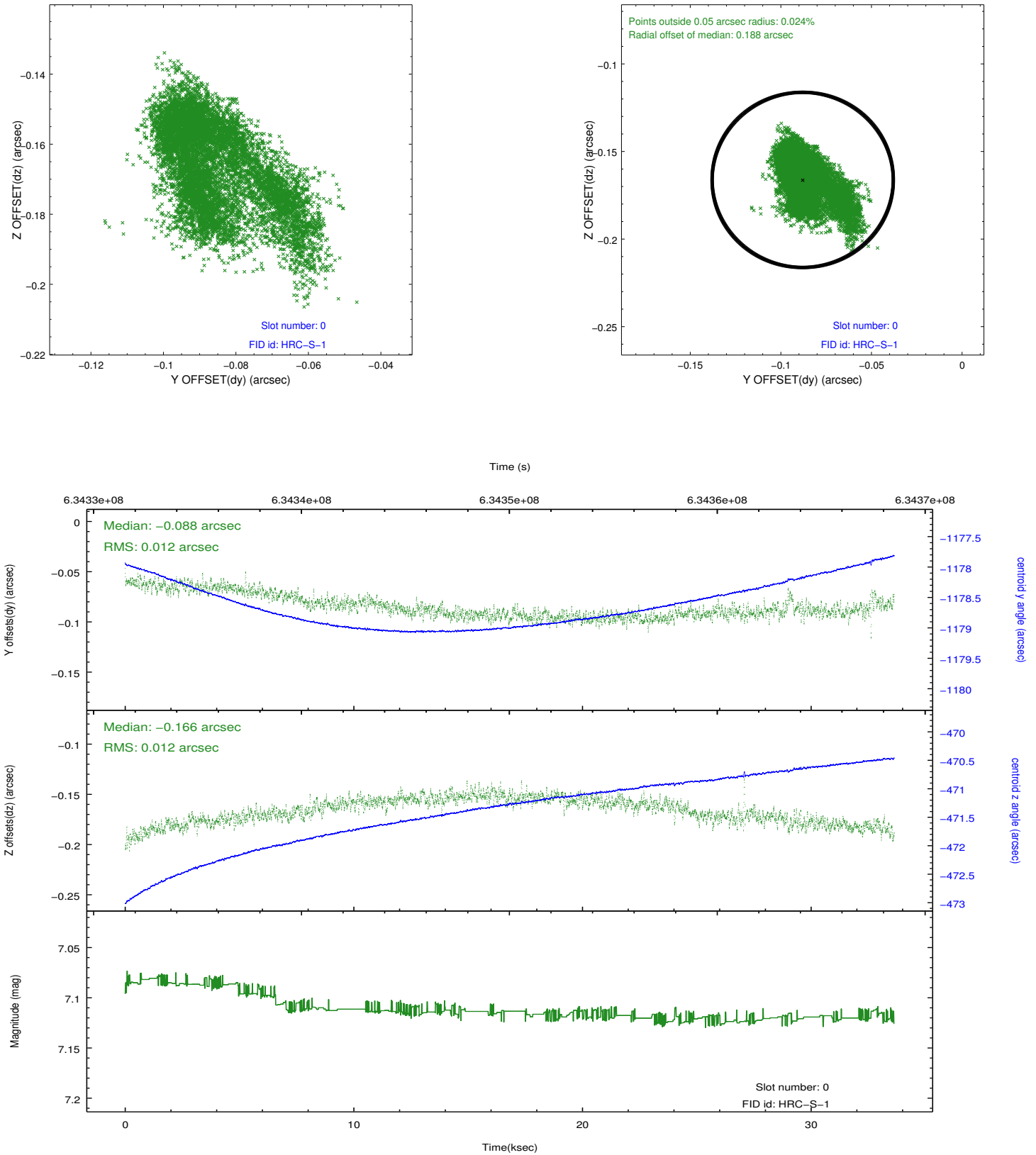


2.4.5 Slot 7

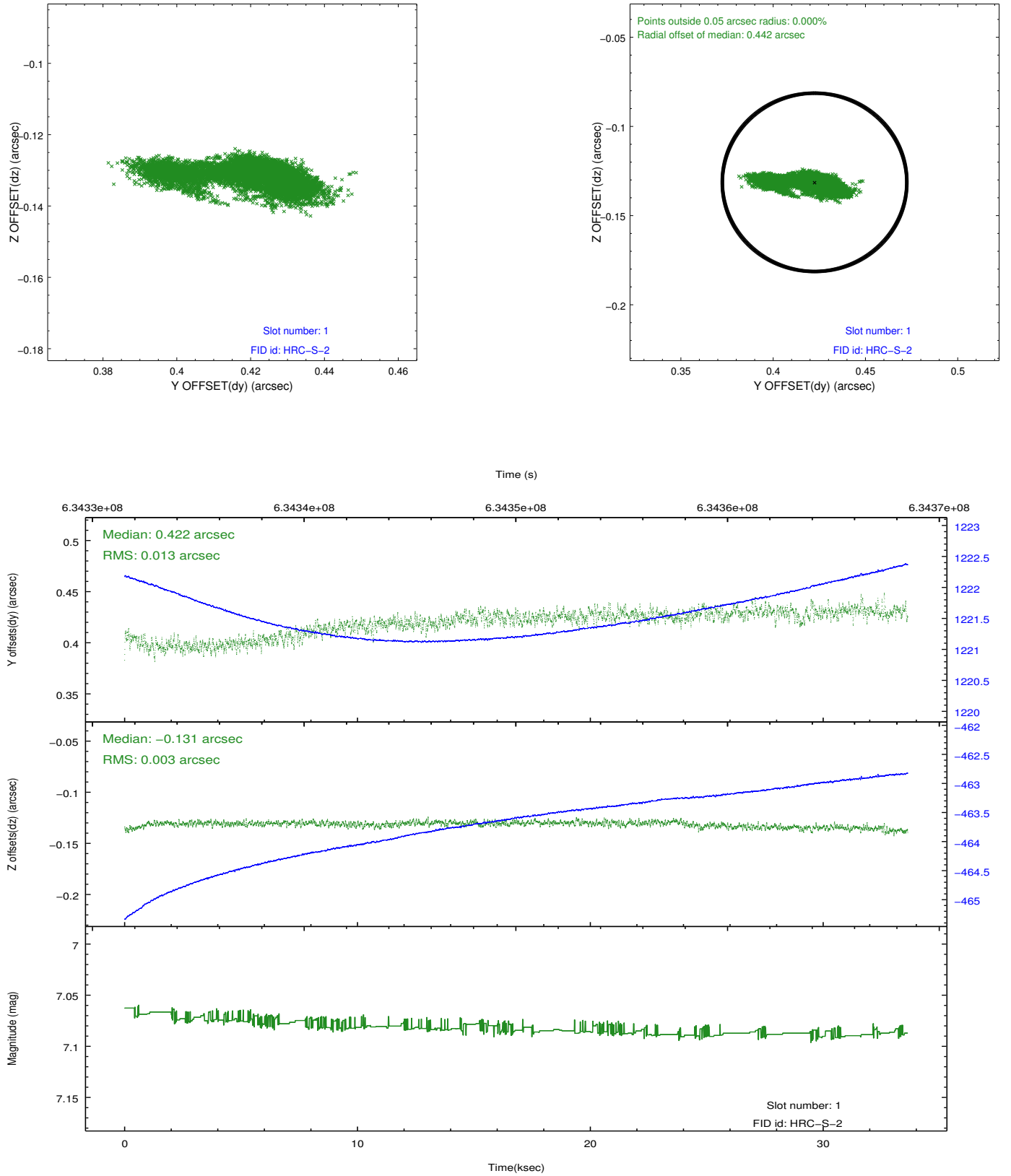


2.5 FID Slots

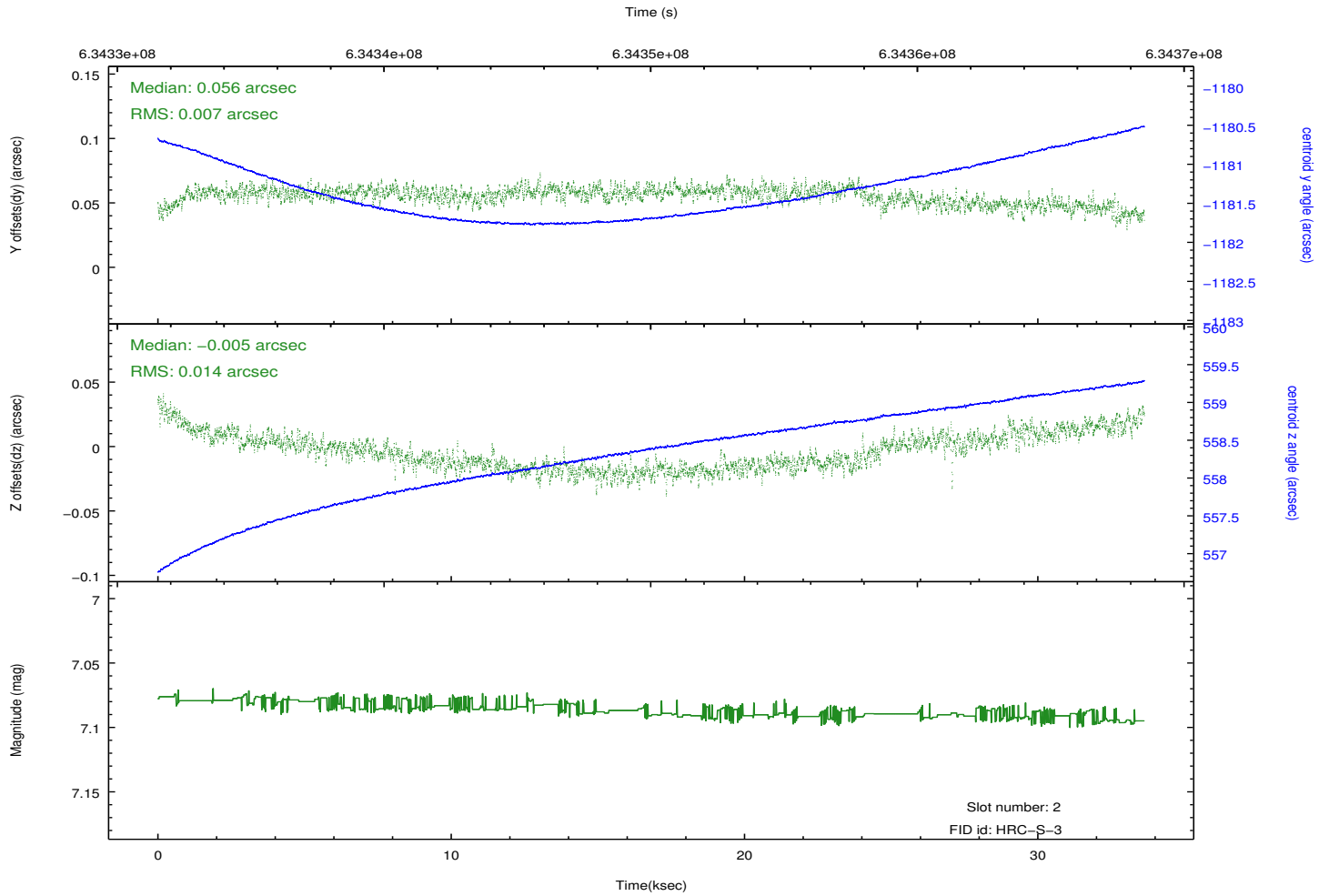
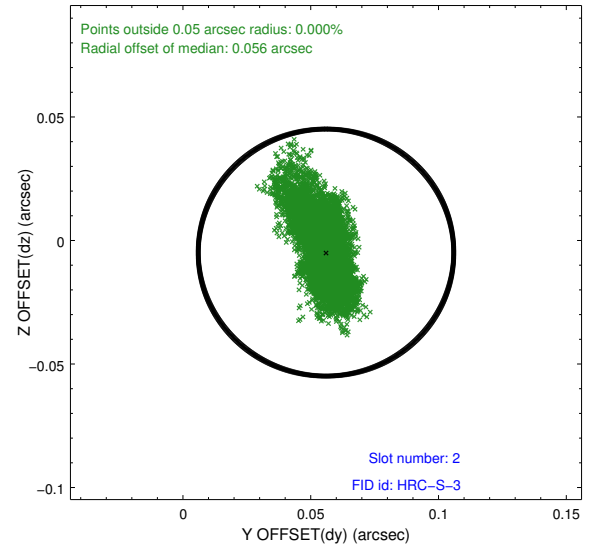
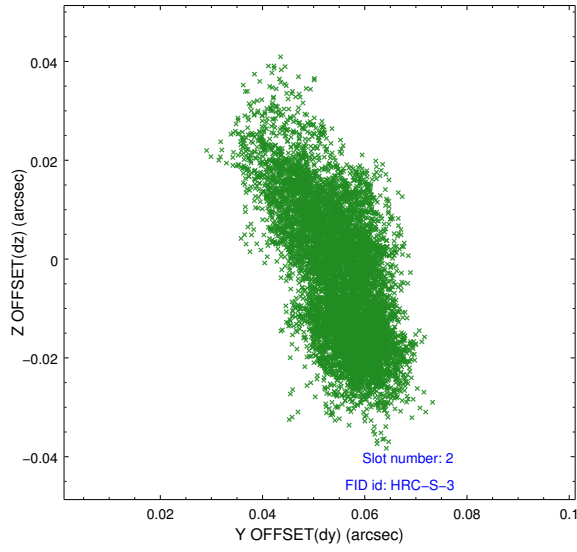
2.5.1 Slot 0



2.5.2 Slot 1

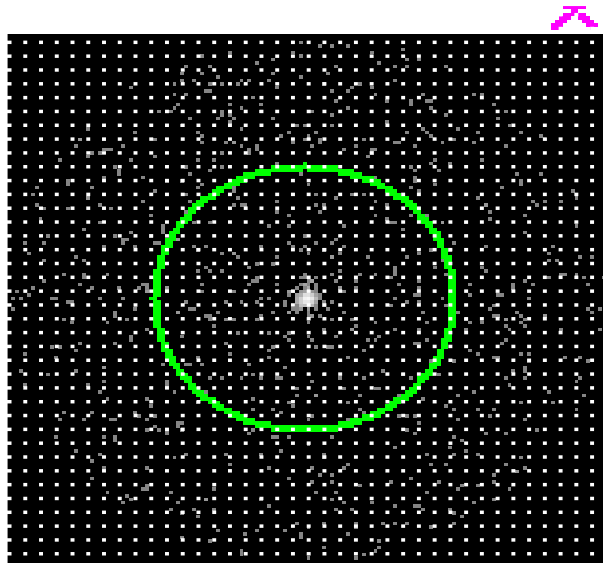


2.5.3 Slot 2

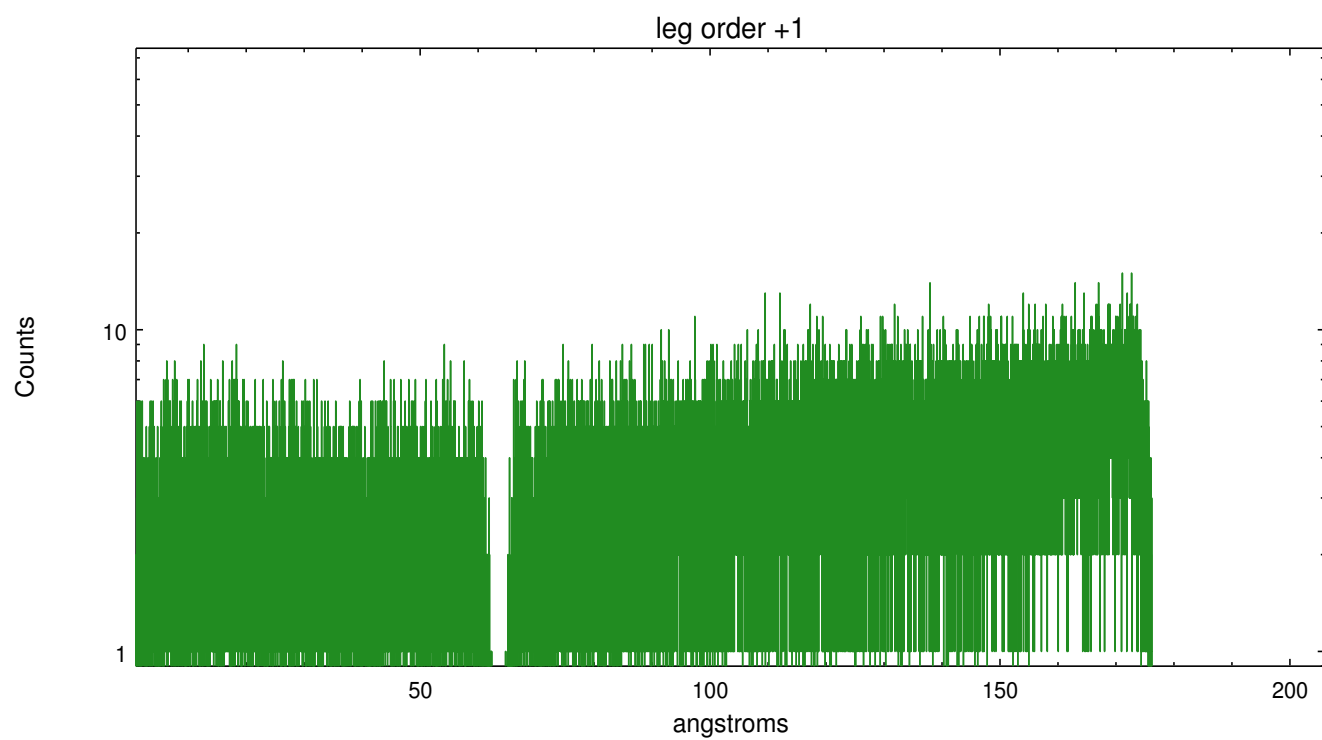
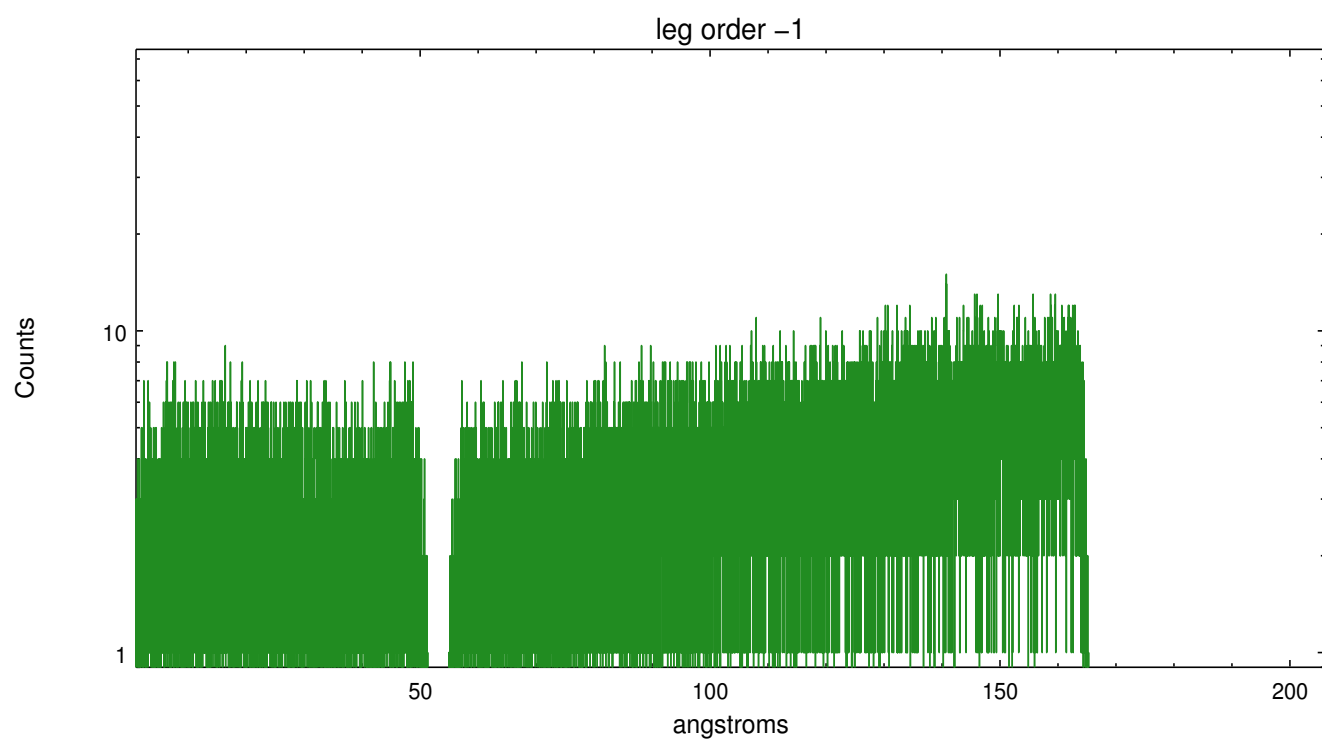


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.02.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.080851947308

A.2 Comments

Due to corruption of the secondary science data during this observation, some instrument parameters have bogus values. PLEASE NOTE: All the event data in this observation are good. The short gaps in the GTI intervals can be eliminated (i.e., use the first START and last STOP). THE DTF values during this observation can be estimated by dropping all the low values and averaging the remaining values near 1.0.