

V&V Reference Report

L2 ASCDS Version : 10.4

Observation 17391 - L2 Version 1
Chandra X-Ray Center

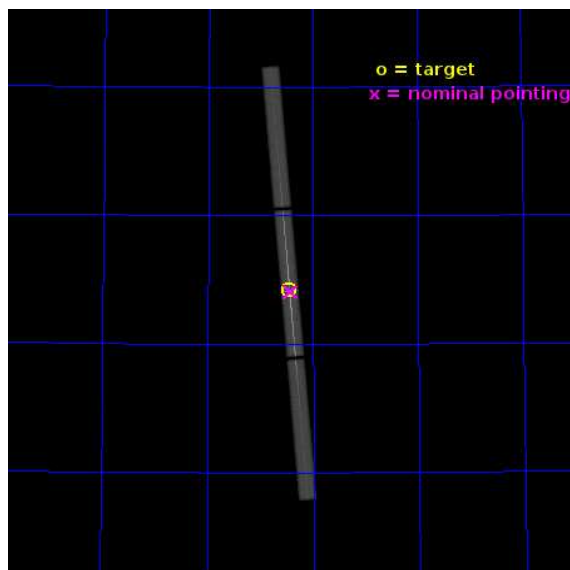
L2 Processing Date : Jul 2 2015

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1 Front

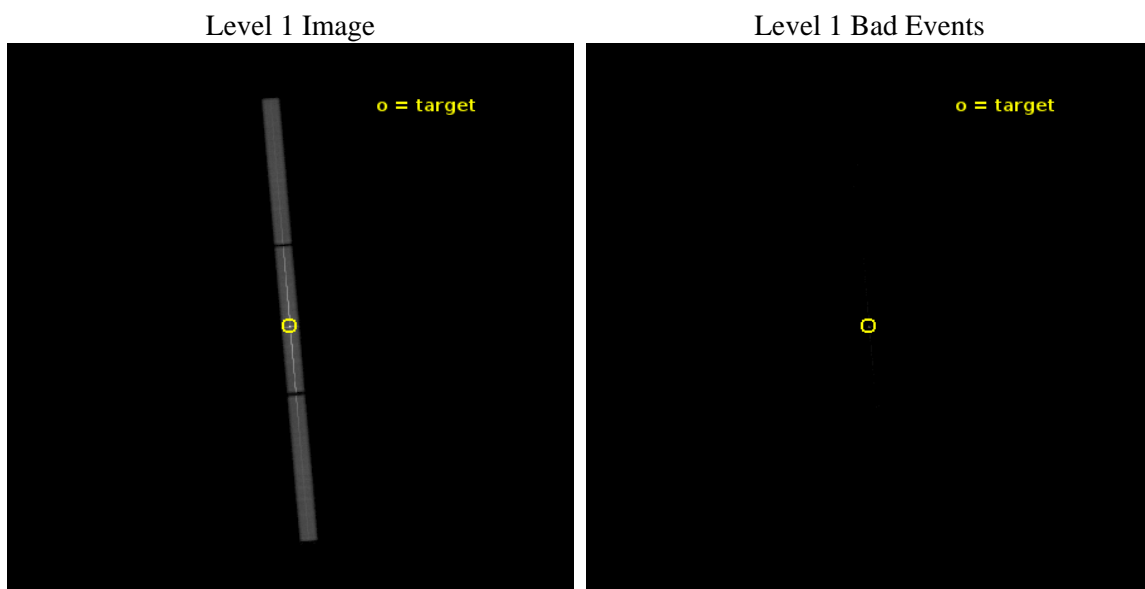
seq_num	790282	Sequence number
obs_id	17391	Observation id
title	AO-16 Calibration Observations of Mkn421	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	MKN421	Source name
ra_targ	166.113333	Observer's specified target RA [deg]
dec_targ	38.208806	Observer's specified target Dec [deg]
ra_nom	166.1127070364	Nominal RA [deg]
dec_nom	38.203793995401	Nominal Dec [deg]
roll_nom	265.16908080285	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10183.37557292	[s]
livetime	10092.530371119	Ontime multiplied by DTCOR
l2events	919425	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	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	10183.37557292	[s]
caldsver	4.6.7	 	l1events	1108079	Number of level 1 events
date	2015-07-02T17:13:44	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32743.03, 32906.09)	src1a sky pixel position

2.1.3 Events

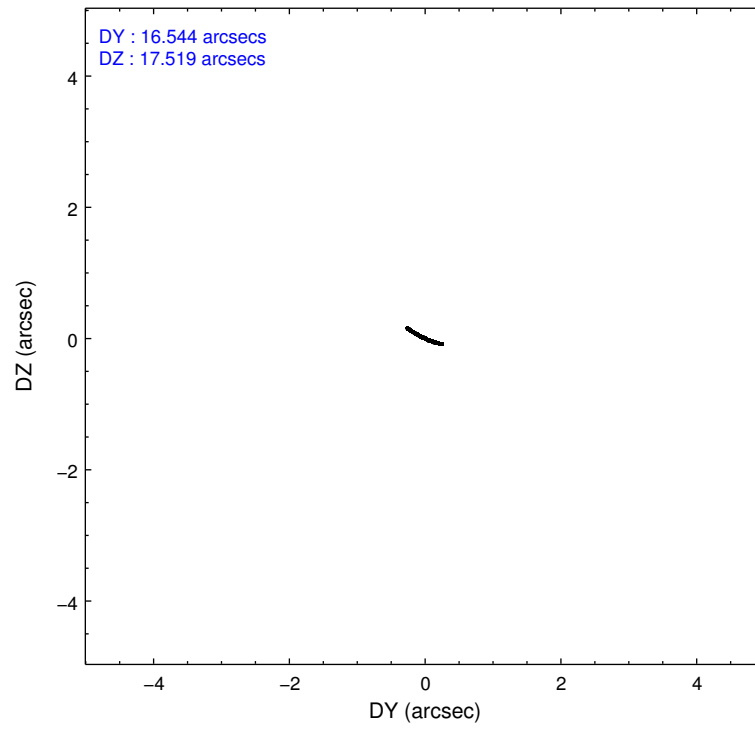
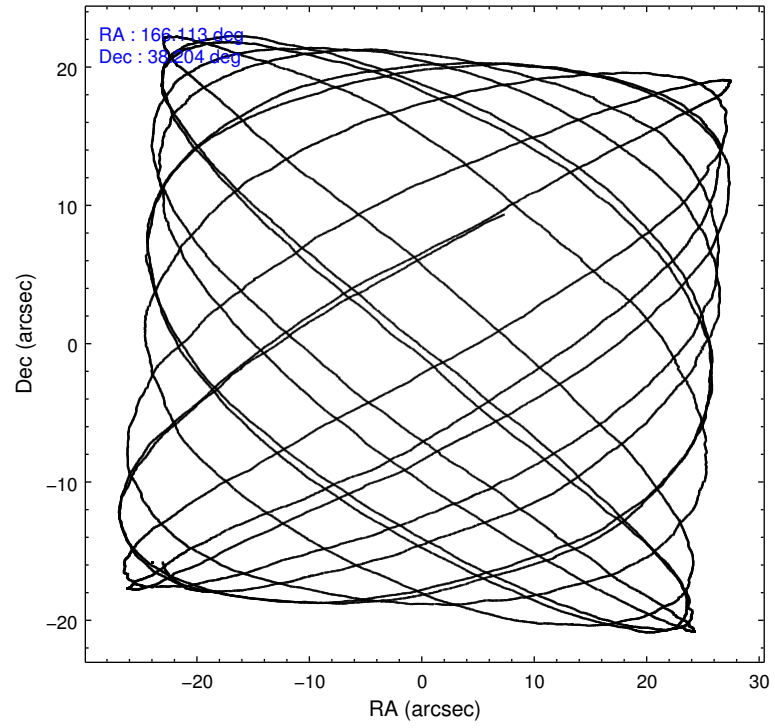
Level 1 Events

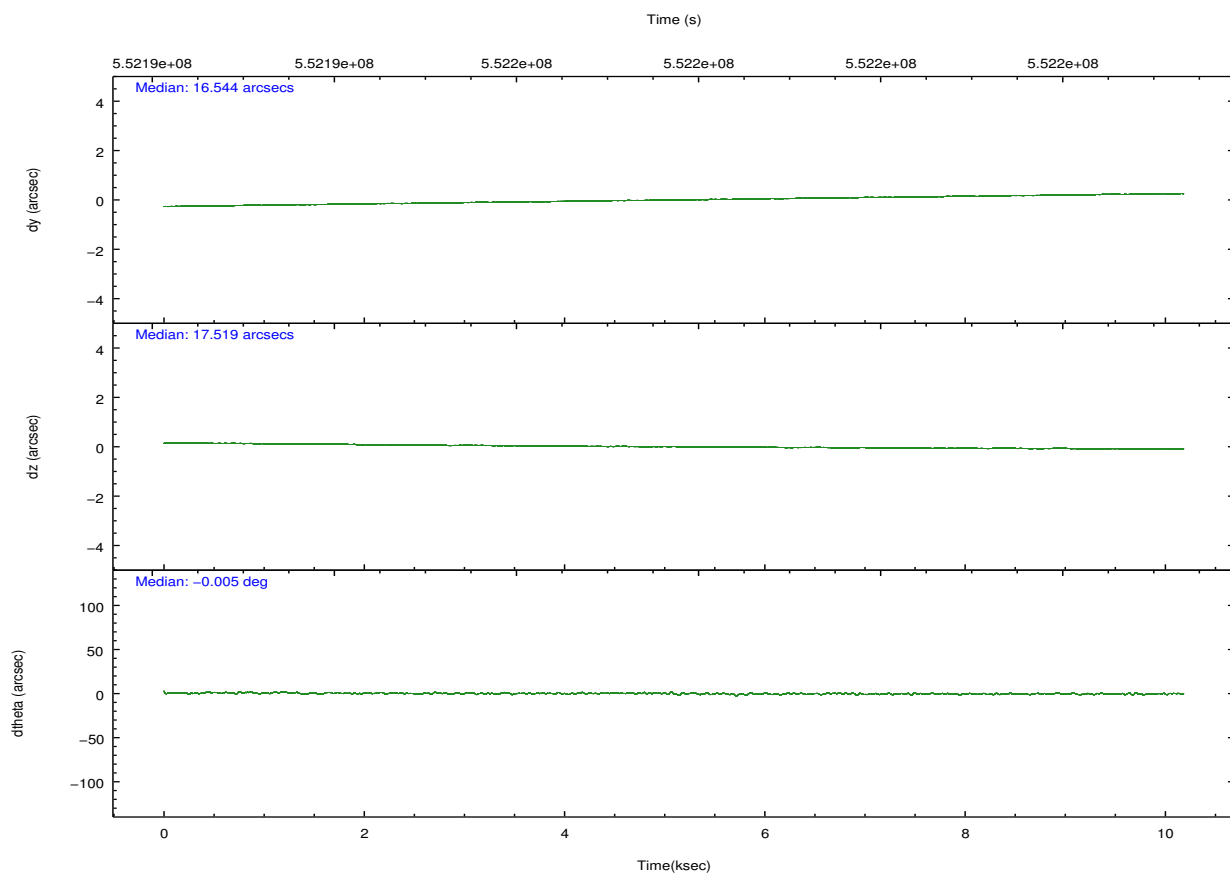
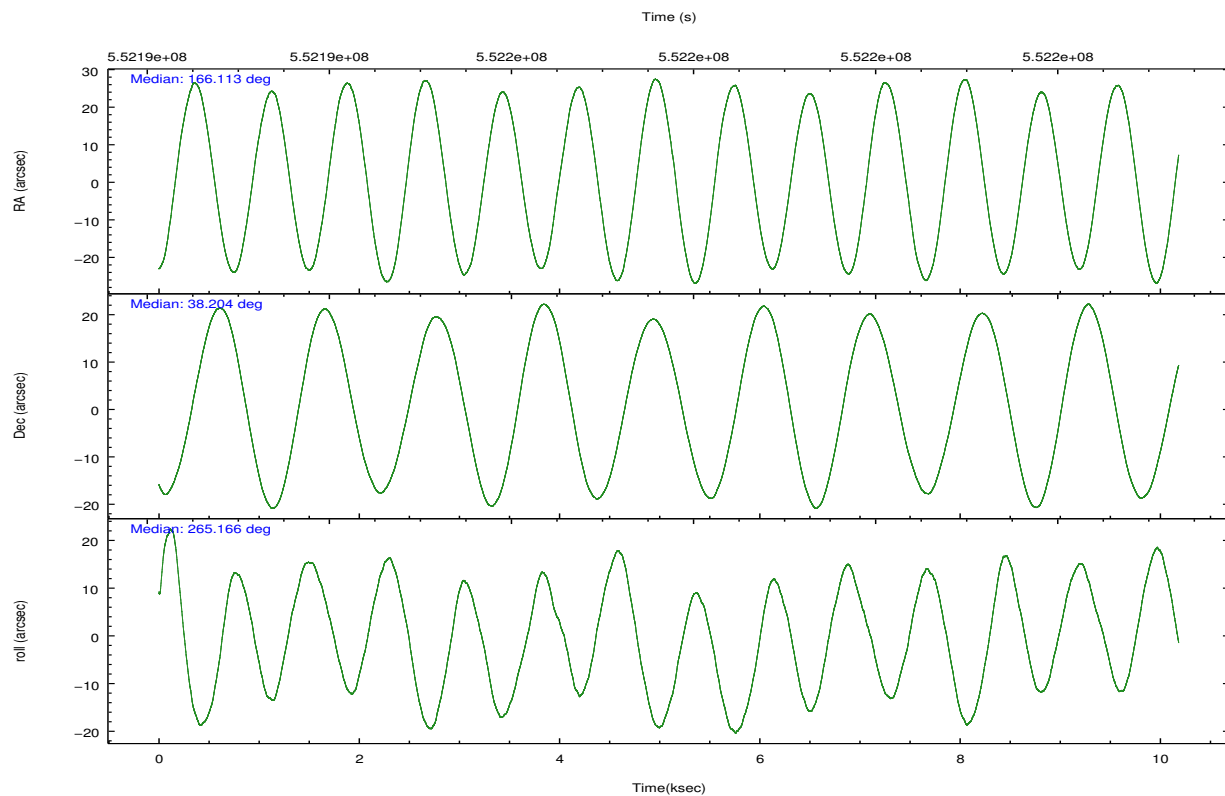
	segment 1	segment 2	segment 3
level 1 events	265829	570970	271280
rejected events	6134	12529	6235
rejected %	2%	2%	2%

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	166.095565	166.1127070364025			
[deg] Pointing Dec	38.229399	38.20379399540094			
[deg] Pointing Roll	265.112360	265.1690808028484			
[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)	552192824.184000	552192446.93308			
Observation start date	2015-07-02T02:52:36	2015-07-02T02:47:26			
[s] Observation end time (MET)	552202824.184000	552203087.45868			
Observation end date	2015-07-02T05:39:16	2015-07-02T05:44:47			

2.3 Aspect



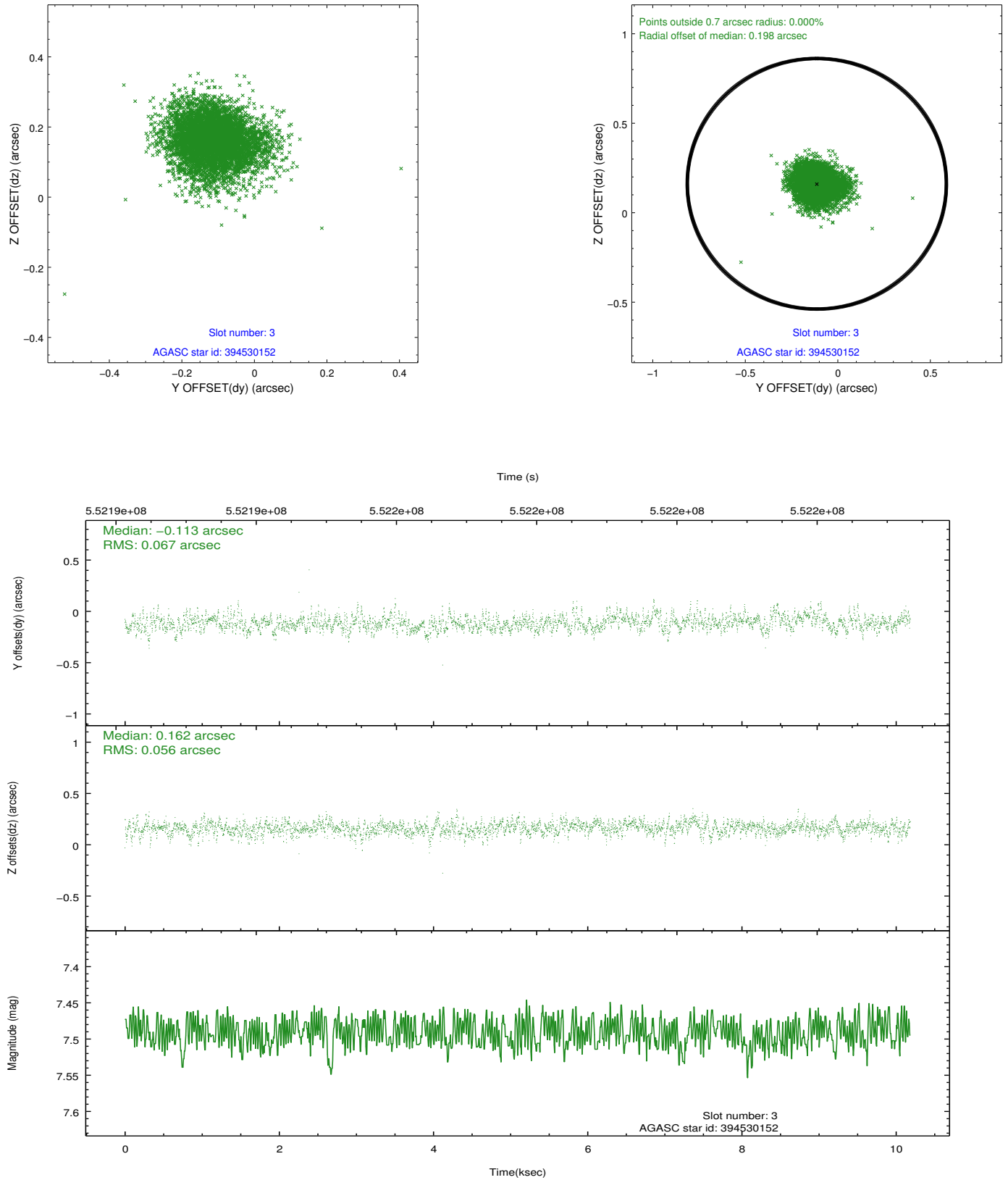


Slot Statistics

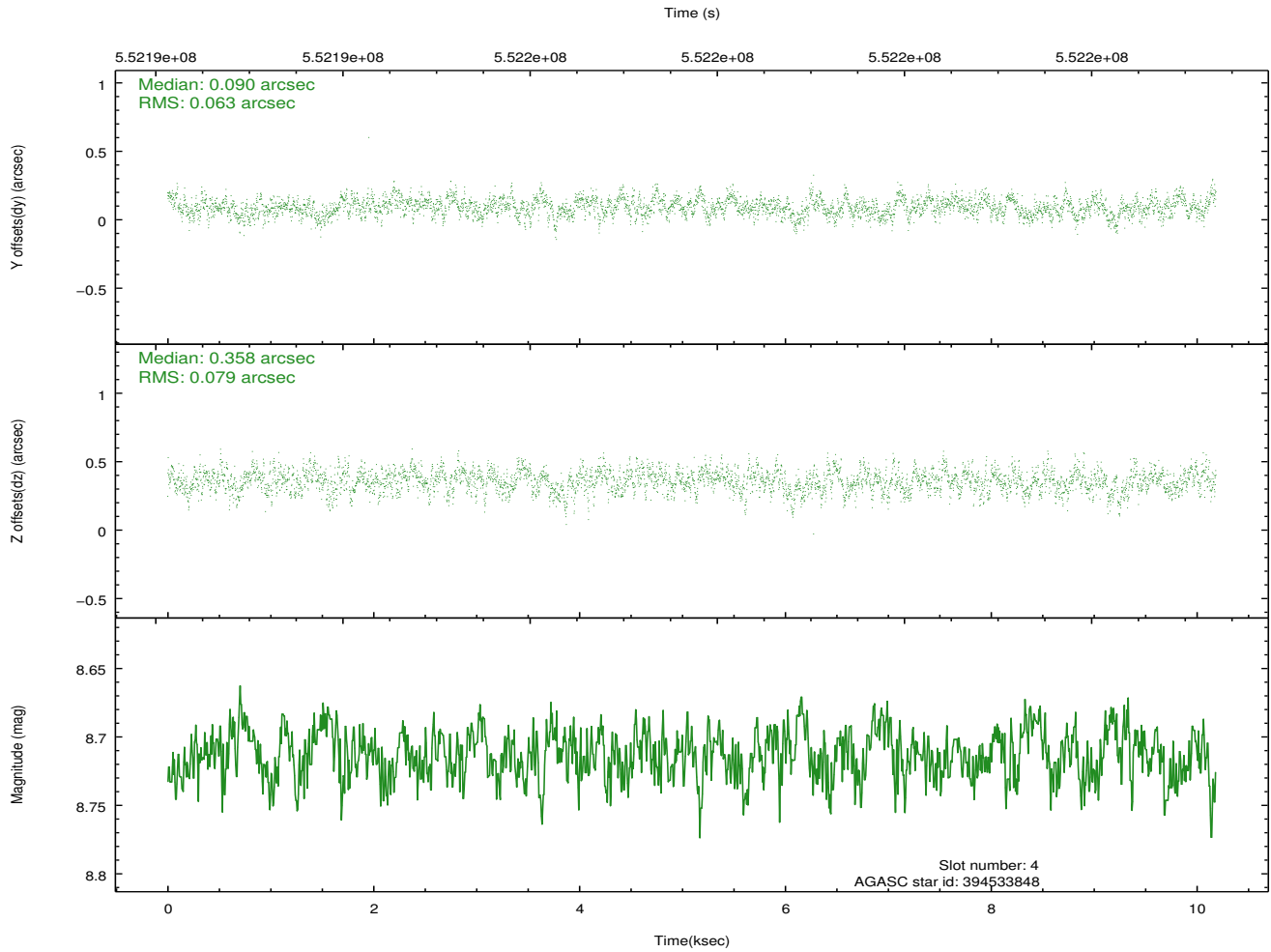
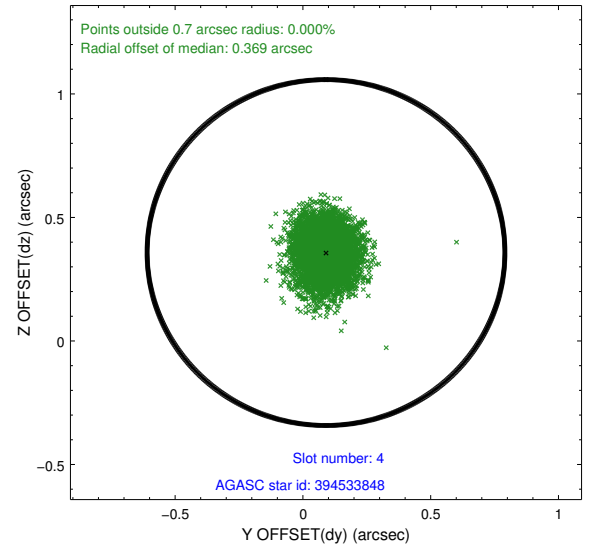
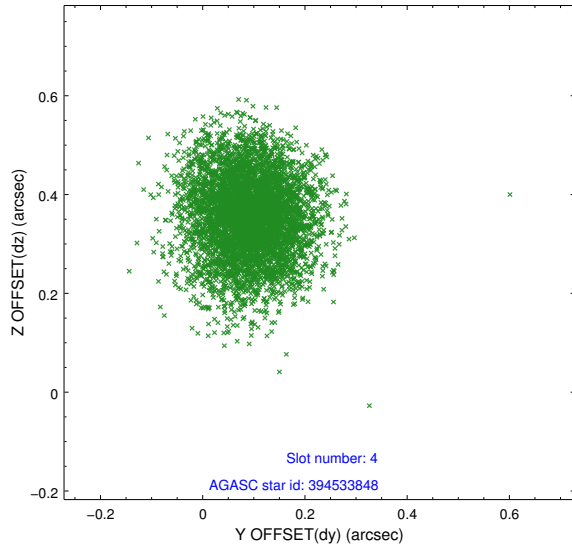
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.04	2484	0.010	-0.135	0.007	0.012	0.000000	0.000000	-1171.03	-466.47
1	FID		HRC-S-2	7.03	2484	0.308	-0.125	0.005	0.010	0.000000	0.000000	1228.47	-459.22
2	FID		HRC-S-3	7.04	2484	0.072	-0.043	0.008	0.013	0.000000	0.000000	-1173.23	562.96
3	GUIDE	used	394530152	7.49	4967	-0.113	0.162	0.091	0.153	166.075805	38.868252	-2287.00	-250.79
4	GUIDE	used	394533848	8.71	4966	0.090	0.358	0.108	0.174	166.382906	38.276007	-238.65	790.06
5	GUIDE	used	394543960	9.77	4963	0.196	0.218	0.183	0.304	165.802757	37.787371	1655.27	-693.79
6	GUIDE	used	394546712	6.59	4968	-0.233	0.328	0.104	0.168	166.451462	38.394357	-678.87	949.08
7	GUIDE	used	394546720	6.42	4968	0.046	-1.058	0.113	0.183	166.130115	38.241361	-51.46	93.12

2.4 Star Slots

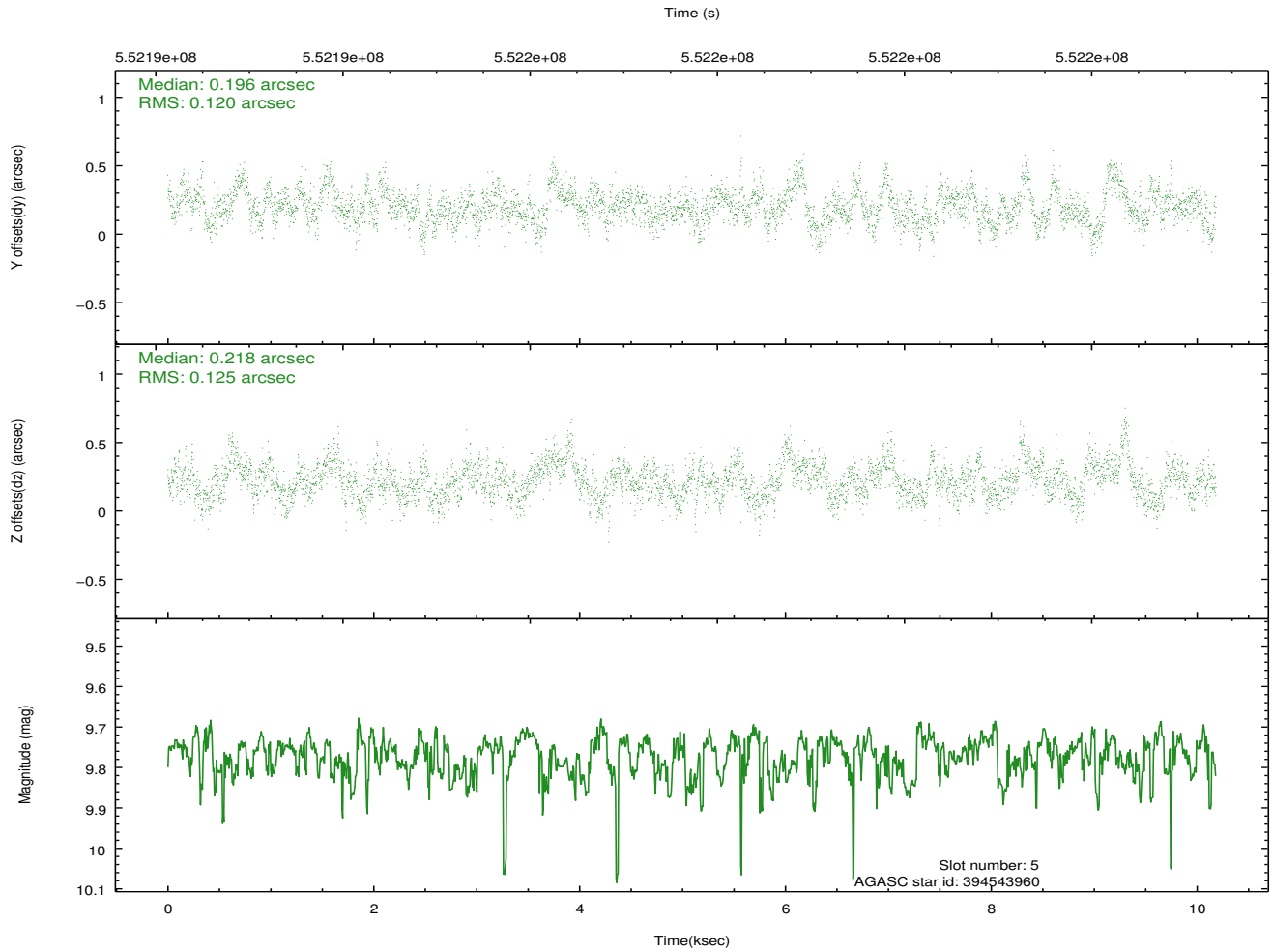
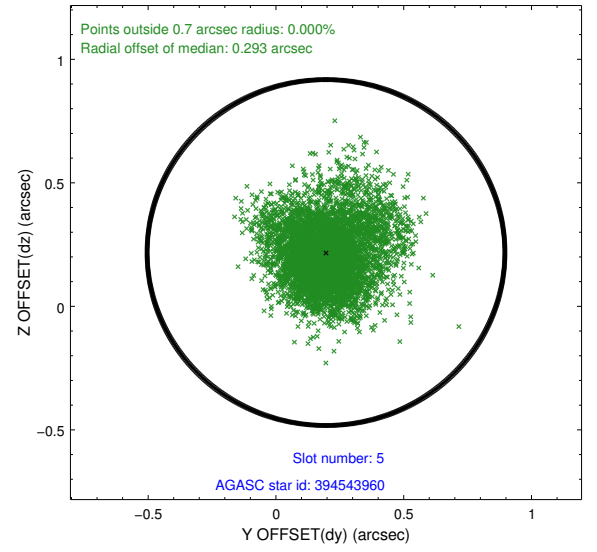
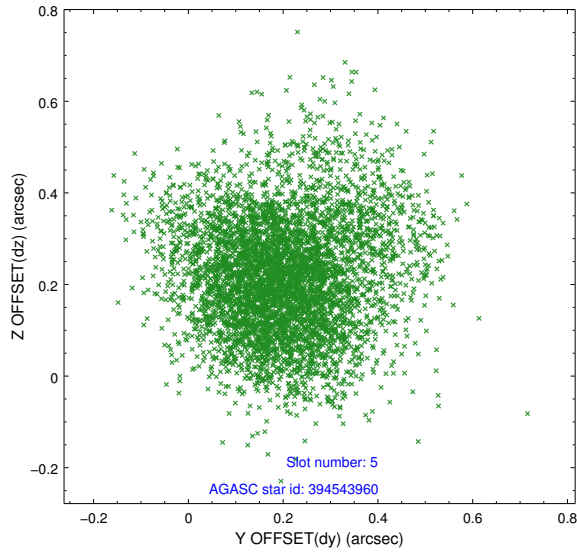
2.4.1 Slot 3



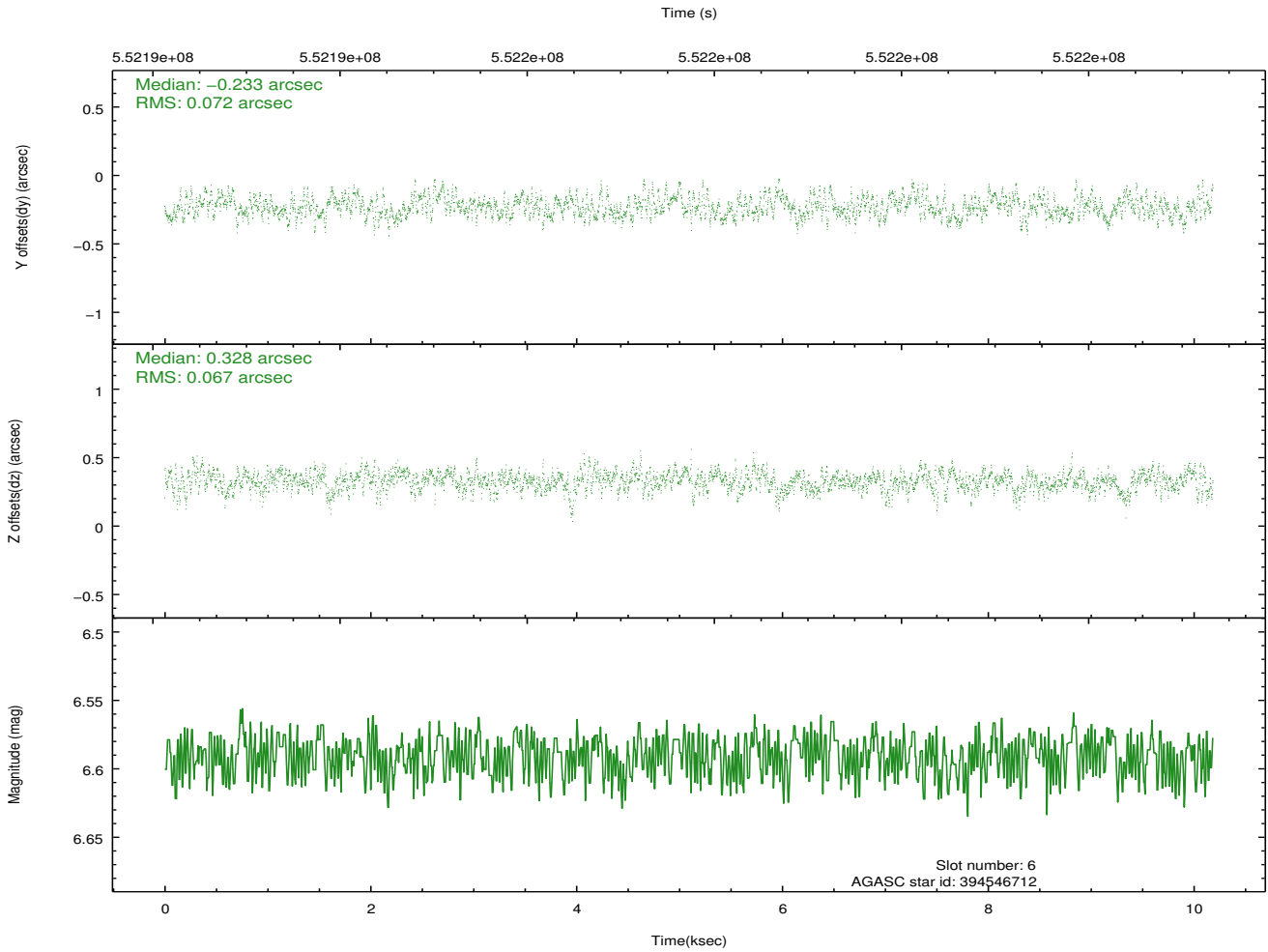
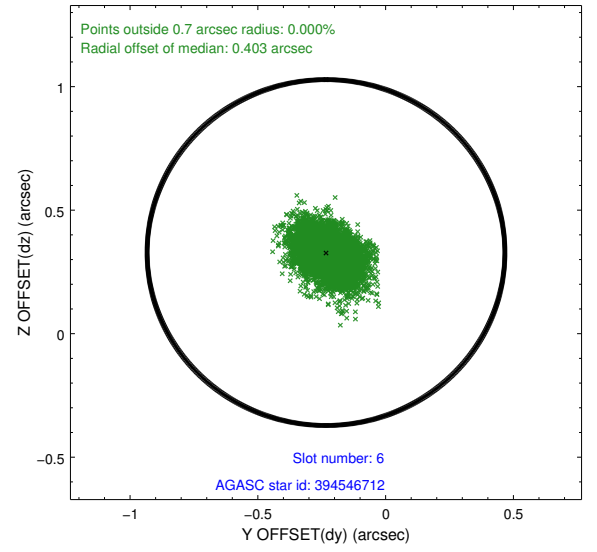
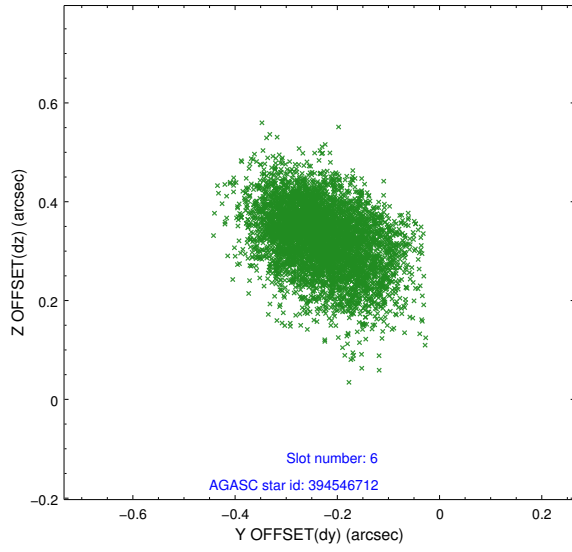
2.4.2 Slot 4



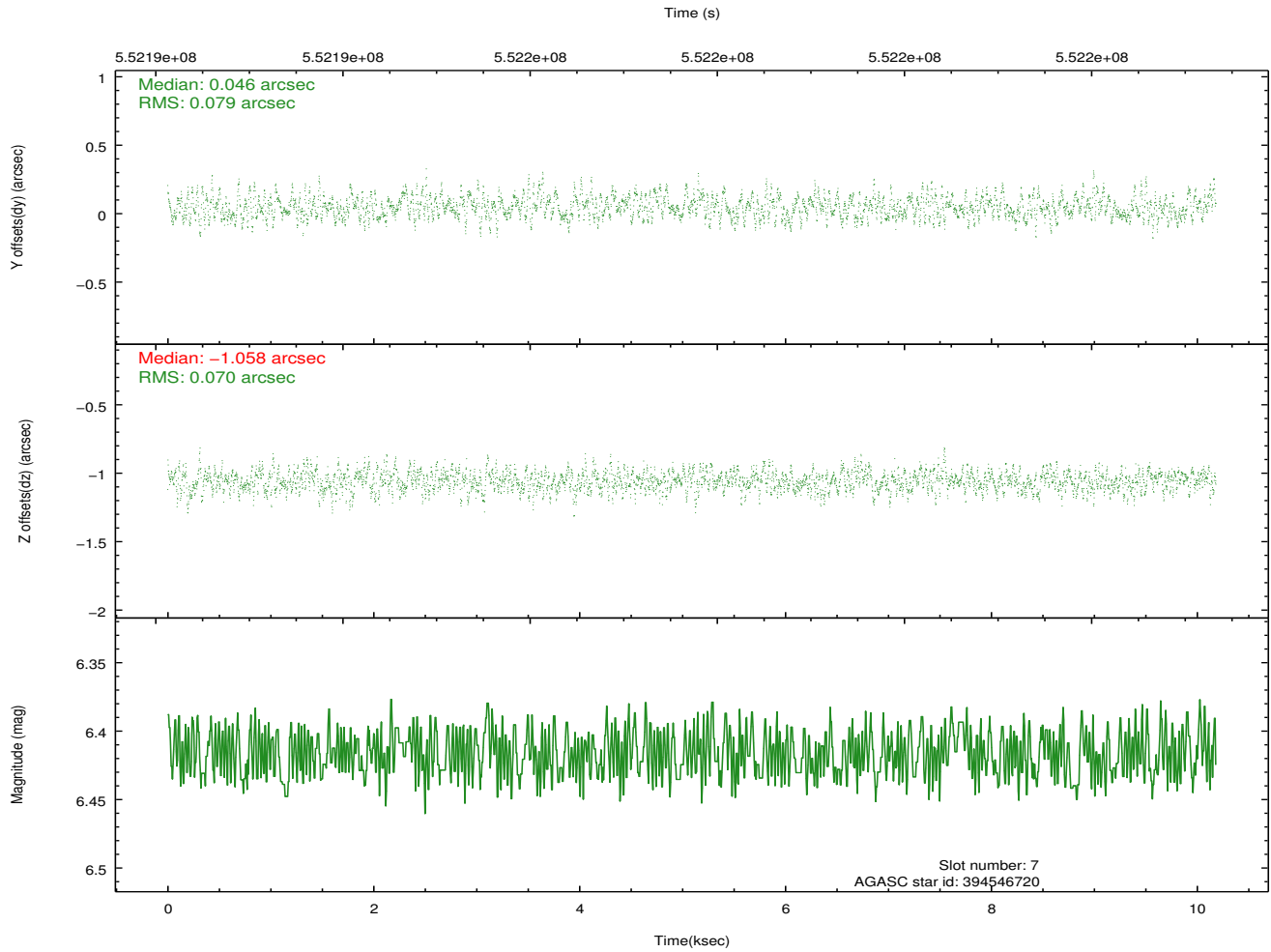
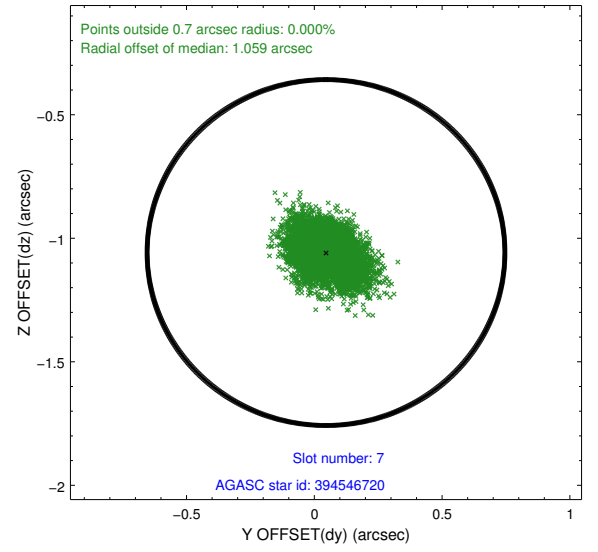
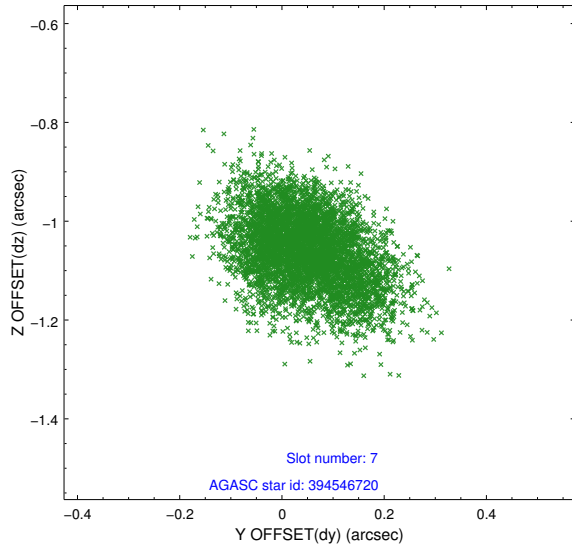
2.4.3 Slot 5



2.4.4 Slot 6

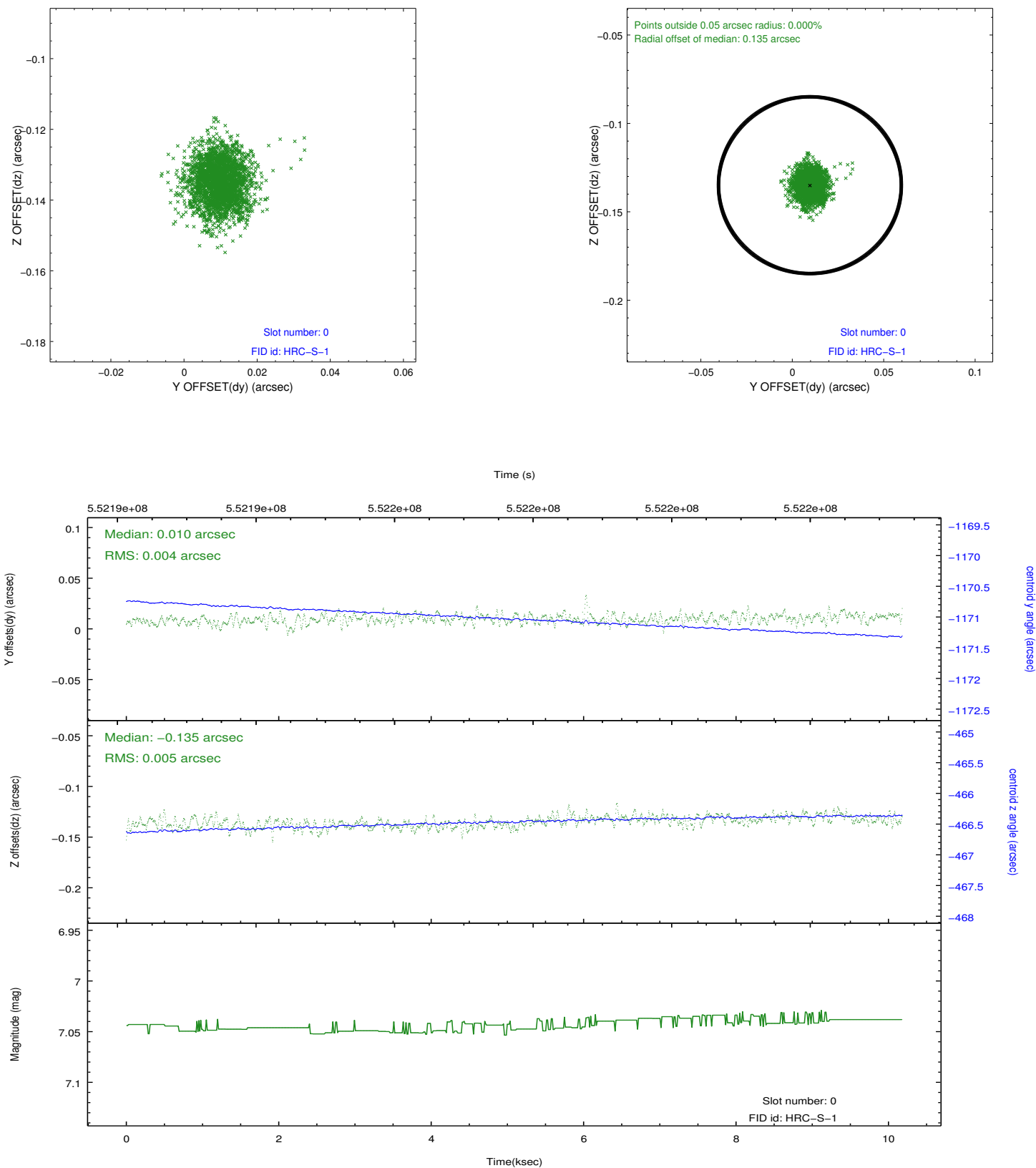


2.4.5 Slot 7

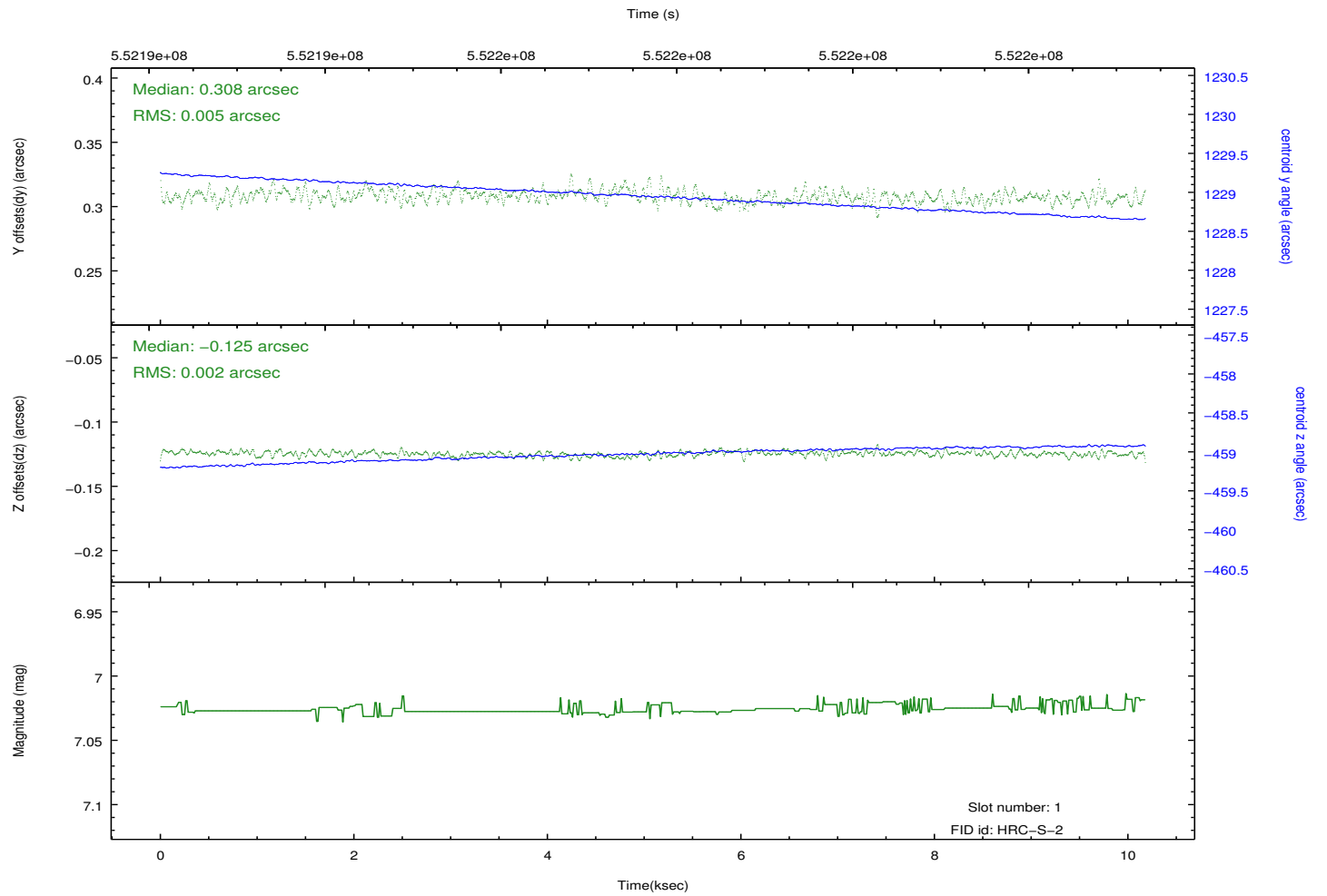
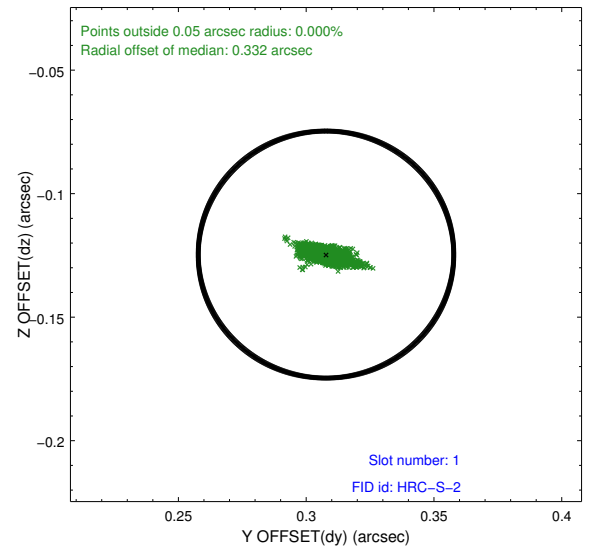
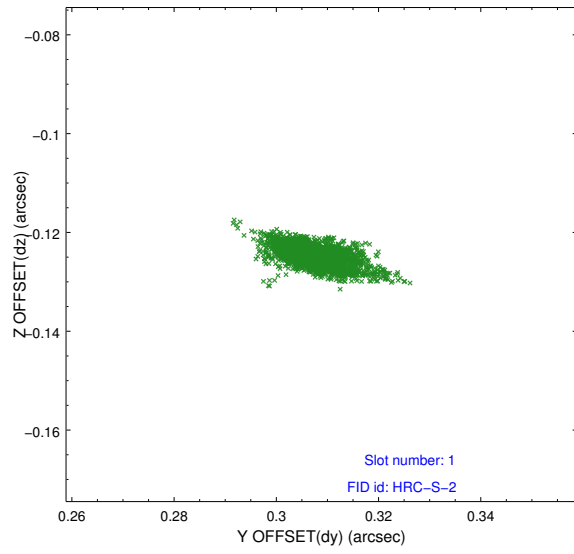


2.5 FID Slots

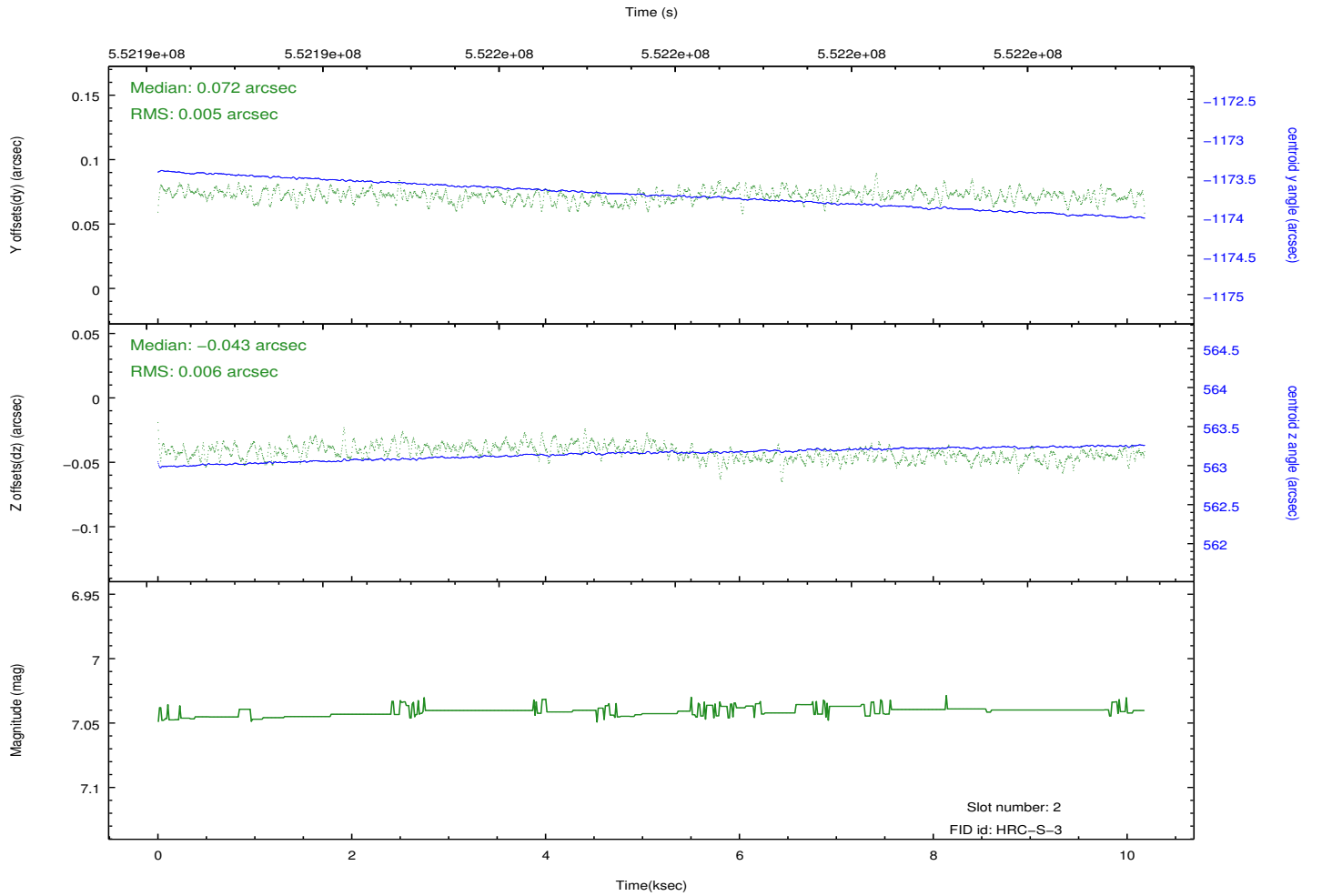
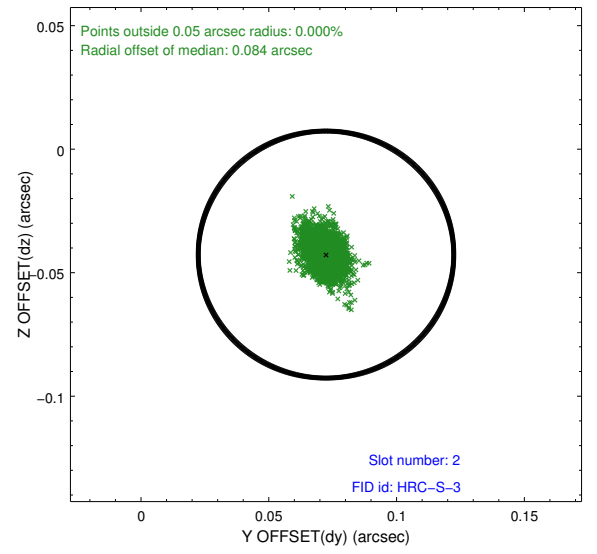
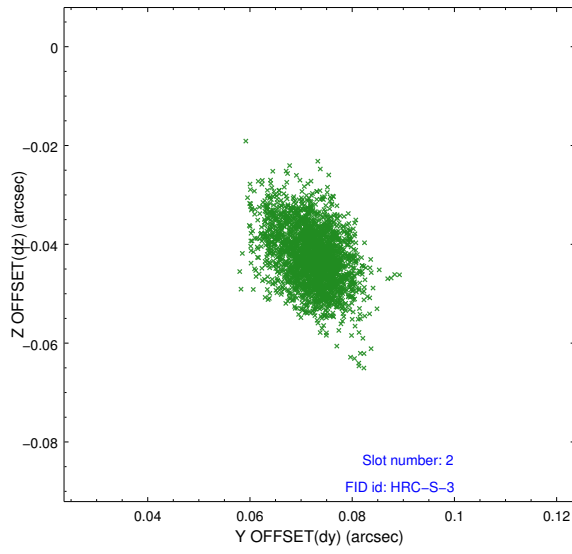
2.5.1 Slot 0



2.5.2 Slot 1

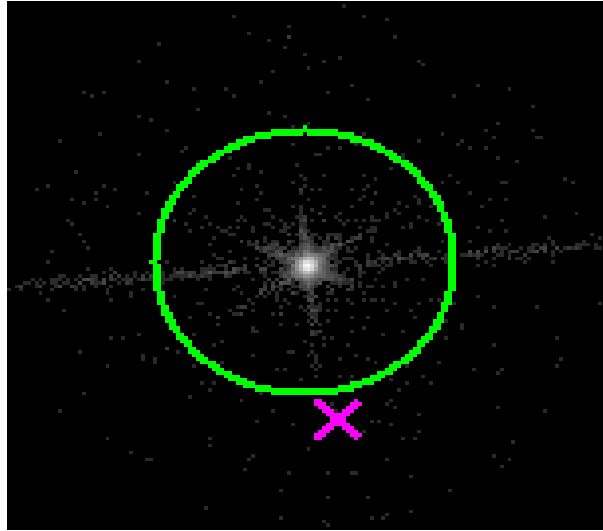


2.5.3 Slot 2

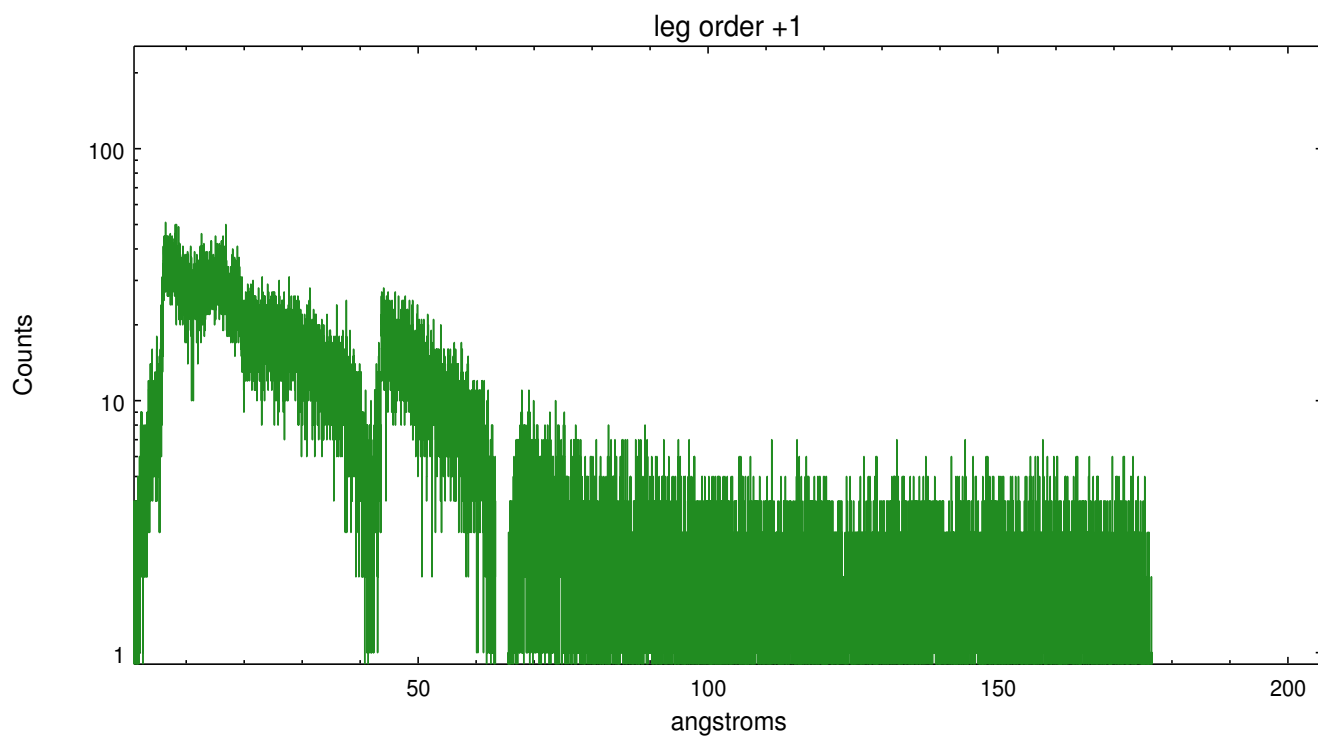
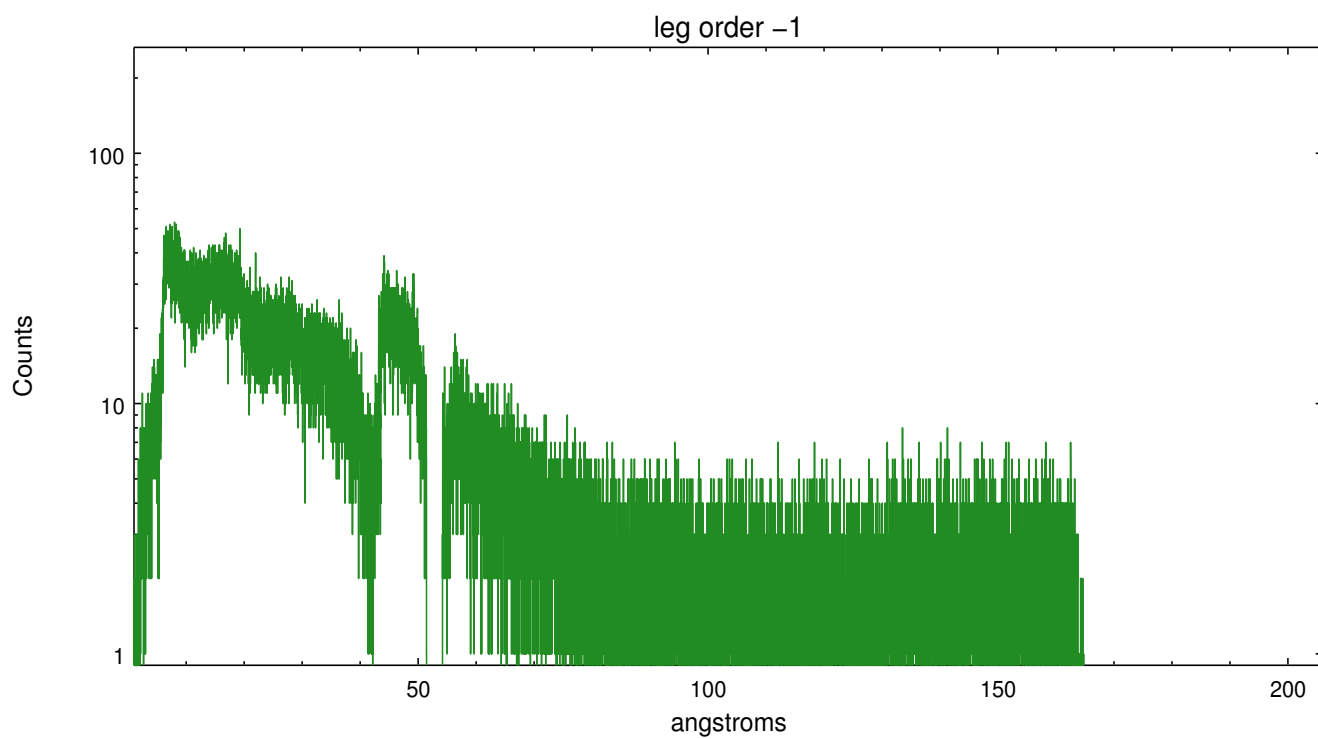


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.07.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.18337557292

A.2 Comments