

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2472 - L2 Version 3
Chandra X-Ray Center

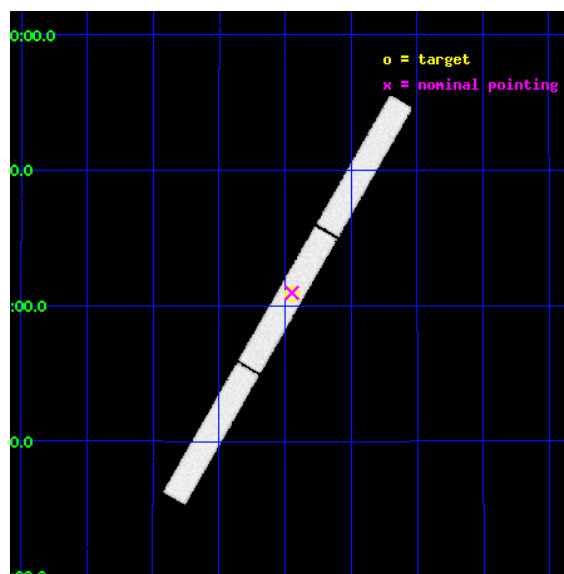
L2 Processing Date : Sep 20 2012

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

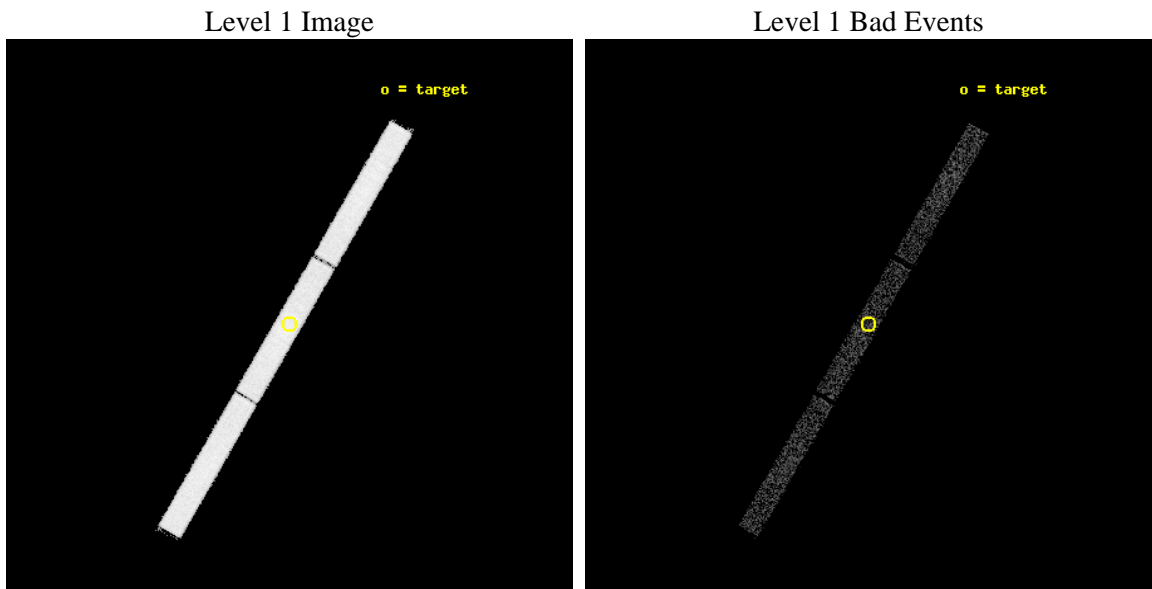
seq_num	100008	Sequence number
obs_id	2472	Observation id
title	SOLVING THE PUZZLE OF COMETARY X-RAY ORIGIN: OBSERVATIONS OF COMET 10P/TEMPEL 2	Proposal title
observer	DR W. THOMAS VESTRAND	Principal investigator
object	LINEAR 2001 A2	Source name
ra_targ	346.72603	Observer's specified target RA [deg]
dec_targ	9.04482	Observer's specified target Dec [deg]
ra_nom	346.72423652816	Nominal RA [deg]
dec_nom	9.0486504750278	Nominal Dec [deg]
roll_nom	120.04364334029	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2071.7813310623	[s]
livetime	2057.1335126024	Ontime multiplied by DTCOR
l2events	136435	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	2250.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2071.7813310623	[s]
caldbver	4.5.1.1	 	l1events	203029	Number of level 1 events
date	2012-09-20T12:59:36	Date and time of file creation			
revision	3	Processing version of data			

2.1.3 Events

Level 1 Events

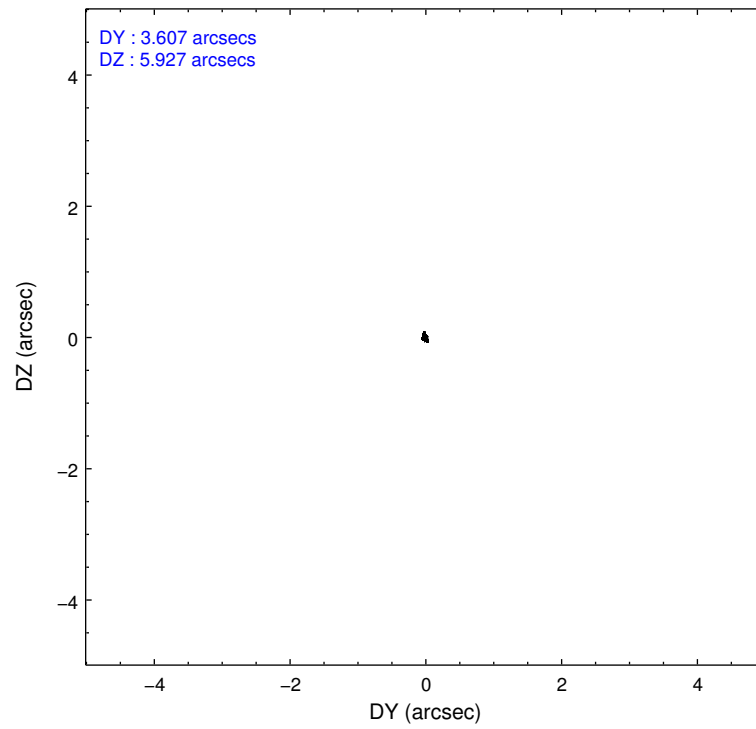
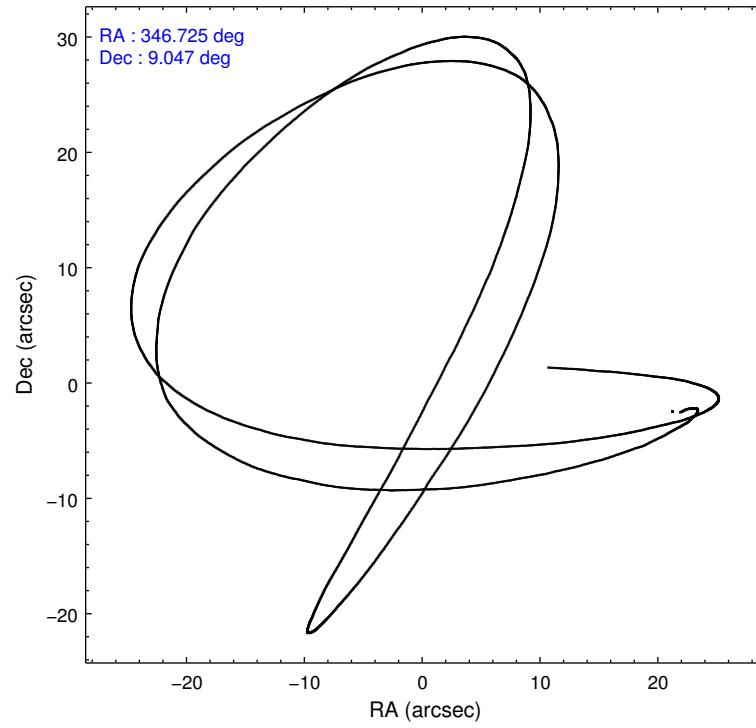
	segment 1	segment 2	segment 3
level 1 events	67929	66554	68546
rejected events	5011	5043	5181
rejected %	7%	7%	7%

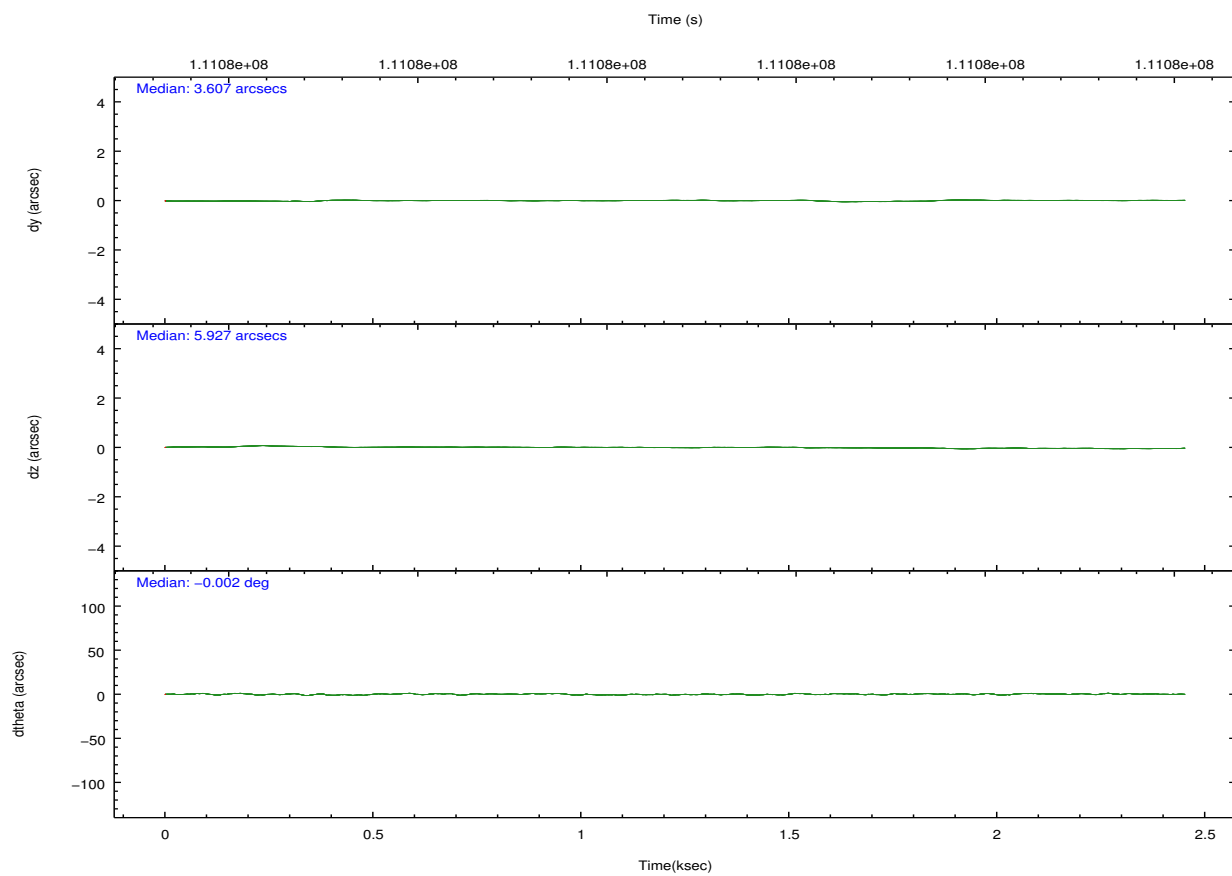
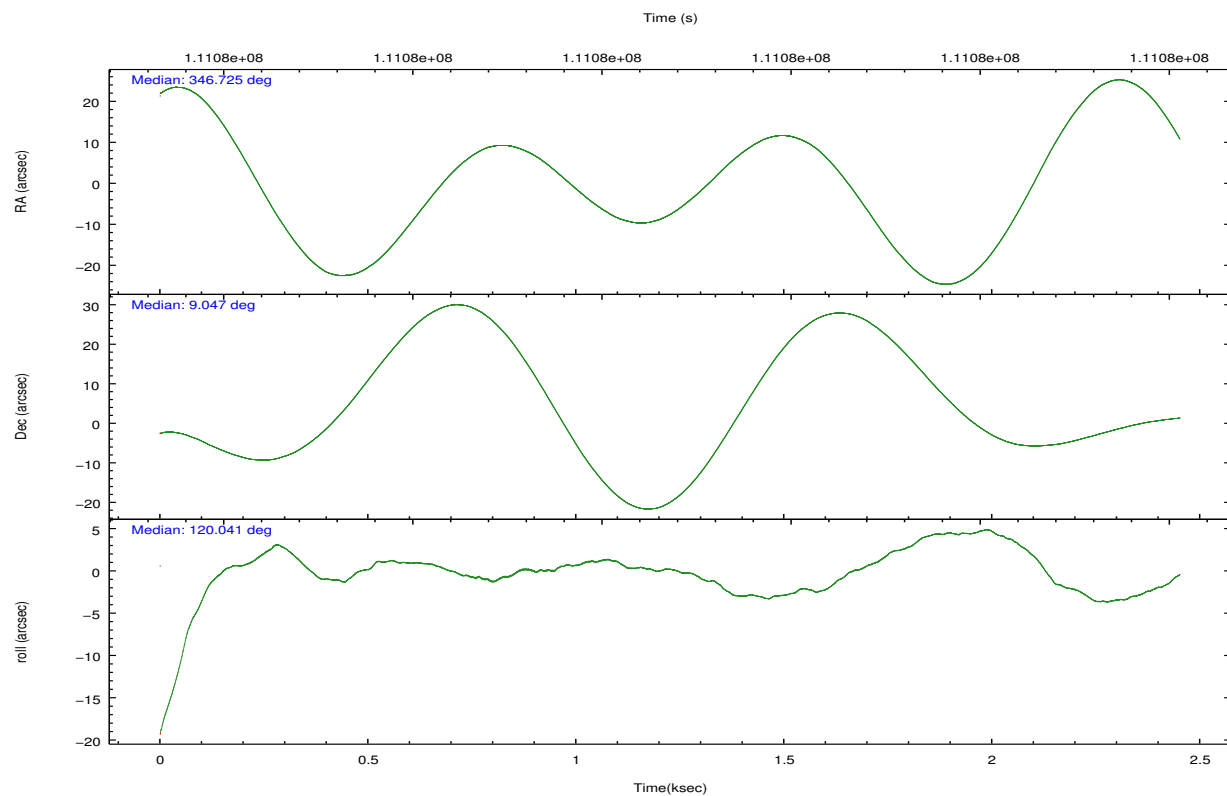
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	LETG	LETG
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	346.749551	346.724236528156
[deg] Pointing Dec	9.035896	9.048650475027836
[deg] Pointing Roll	119.972348	120.0436433402922
[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)	111081154.184000	111080500.8234
Observation start date	2001-07-09T15:51:30	2001-07-09T15:41:40
[s] Observation end time (MET)	111083404.184000	111083538.41102
Observation end date	2001-07-09T16:29:00	2001-07-09T16:32:18

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect



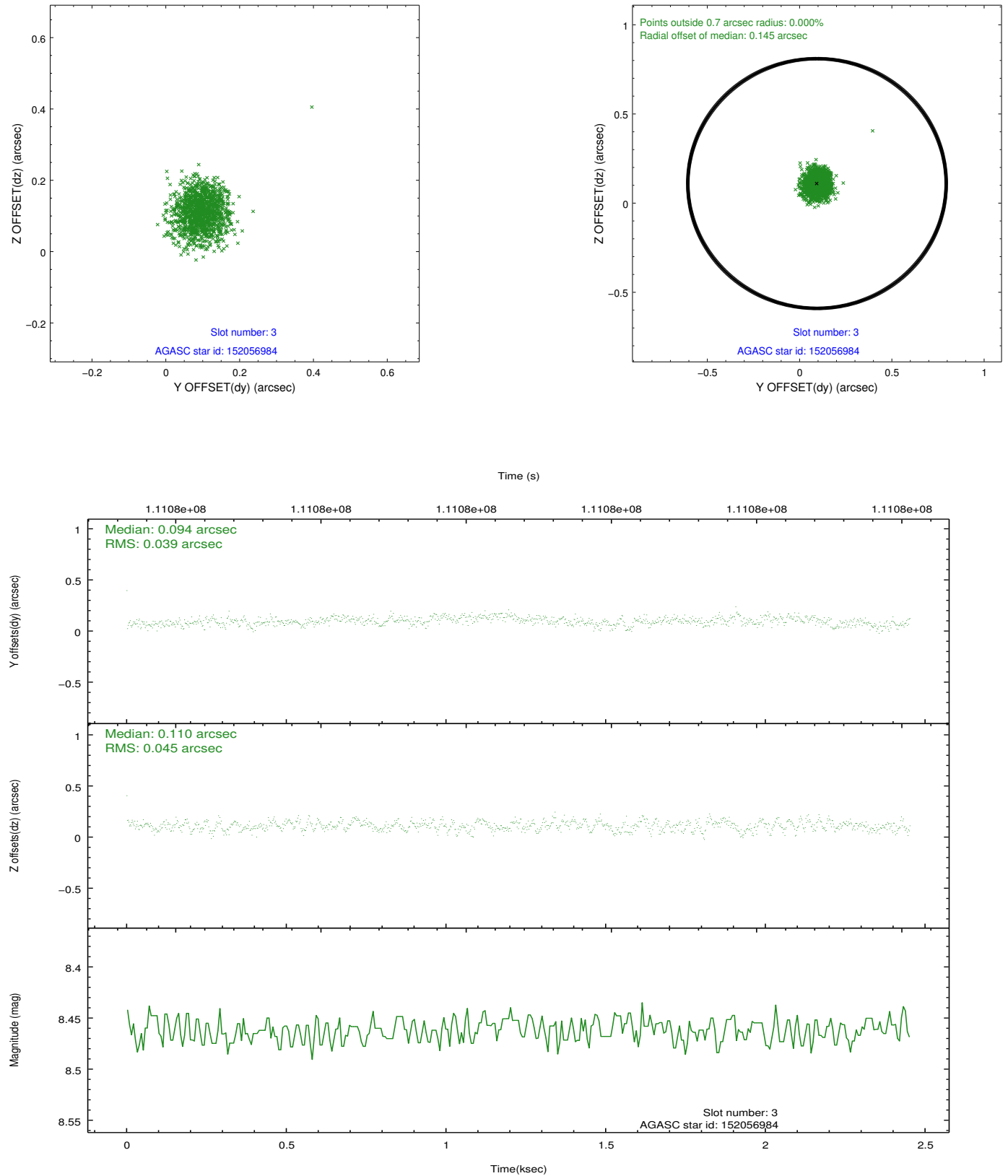


Slot Statistics

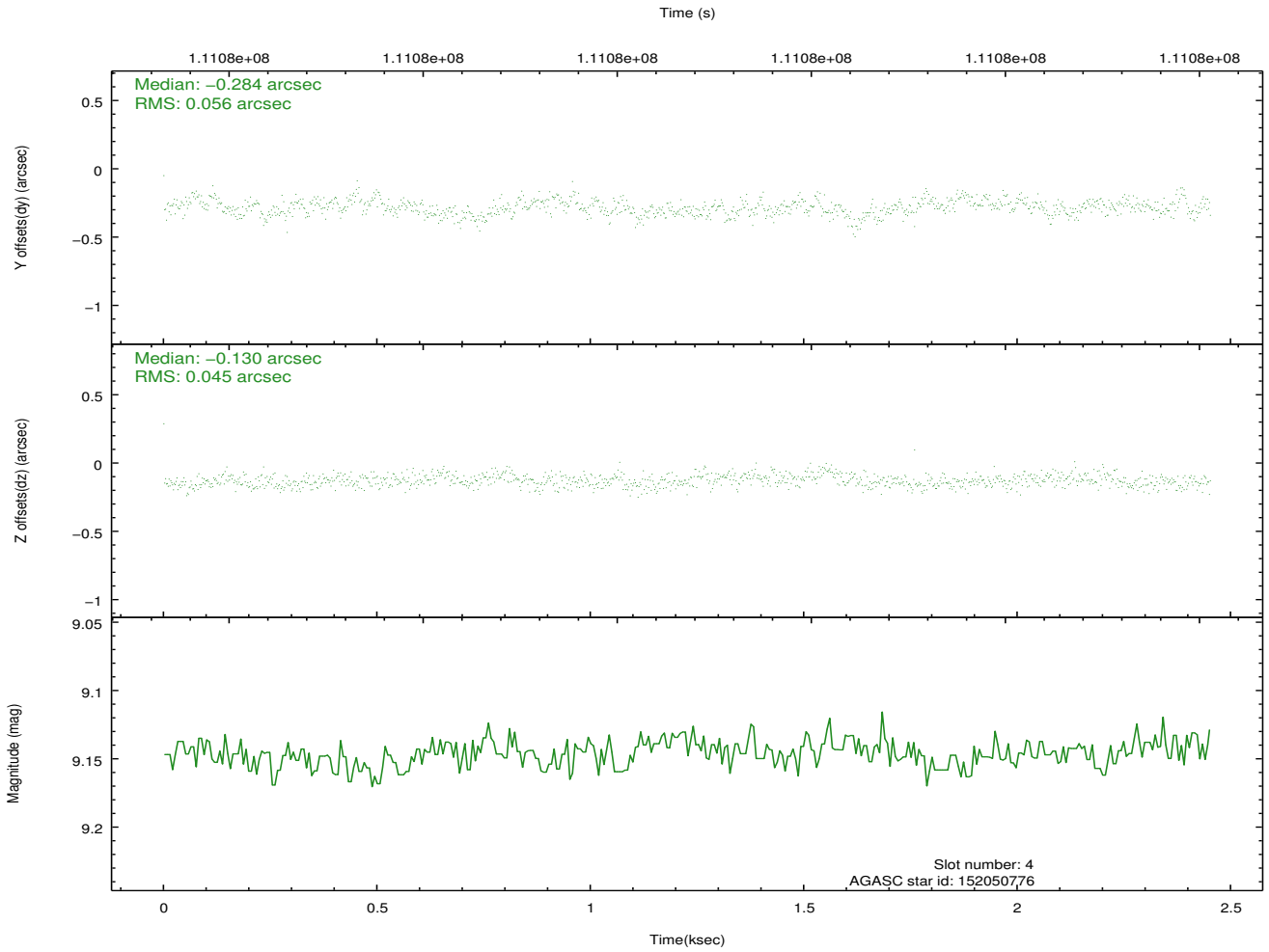
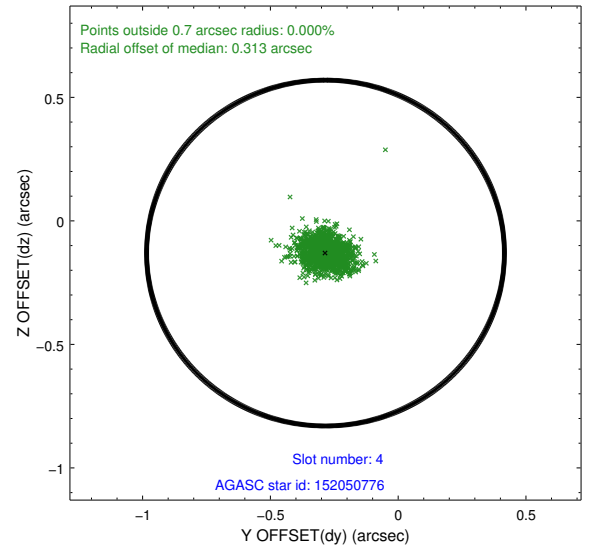
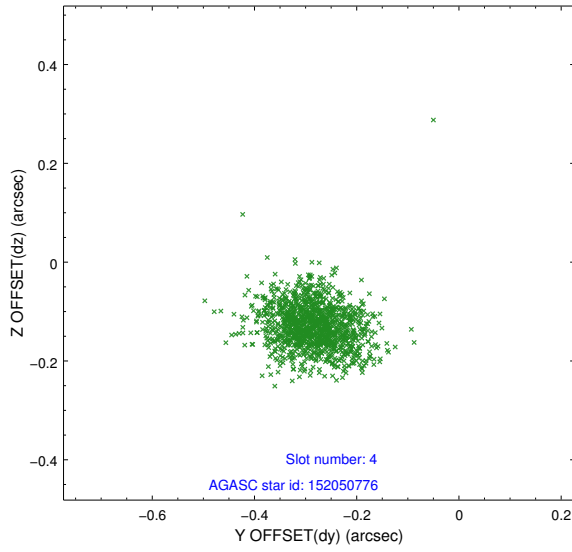
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.98	598	0.162	-0.150	0.006	0.011	0.000000	0.000000	-1157.65	-454.44
1	FID	HRC-S-2	6.98	599	0.079	-0.093	0.005	0.010	0.000000	0.000000	1240.02	-447.83
2	FID	HRC-S-3	7.00	599	0.148	-0.060	0.006	0.011	0.000000	0.000000	-1158.29	574.43
3	GUIDE	152056984	8.46	1197	0.094	0.110	0.064	0.099	347.141022	9.108410	-464.79	-1334.21
4	GUIDE	152050776	9.15	1196	-0.284	-0.130	0.075	0.126	346.189473	9.345260	1962.81	1167.08
5	GUIDE	152046384	9.40	1194	-0.083	-0.072	0.080	0.131	346.457953	9.242143	1166.21	529.24
6	GUIDE	152053000	9.27	1197	0.133	-0.146	0.089	0.143	346.794145	8.414960	-2011.27	981.27
7	GUIDE	152183096	9.82	1195	0.141	0.236	0.104	0.170	347.485637	8.742297	-2219.87	-1739.39

2.4 Star Slots

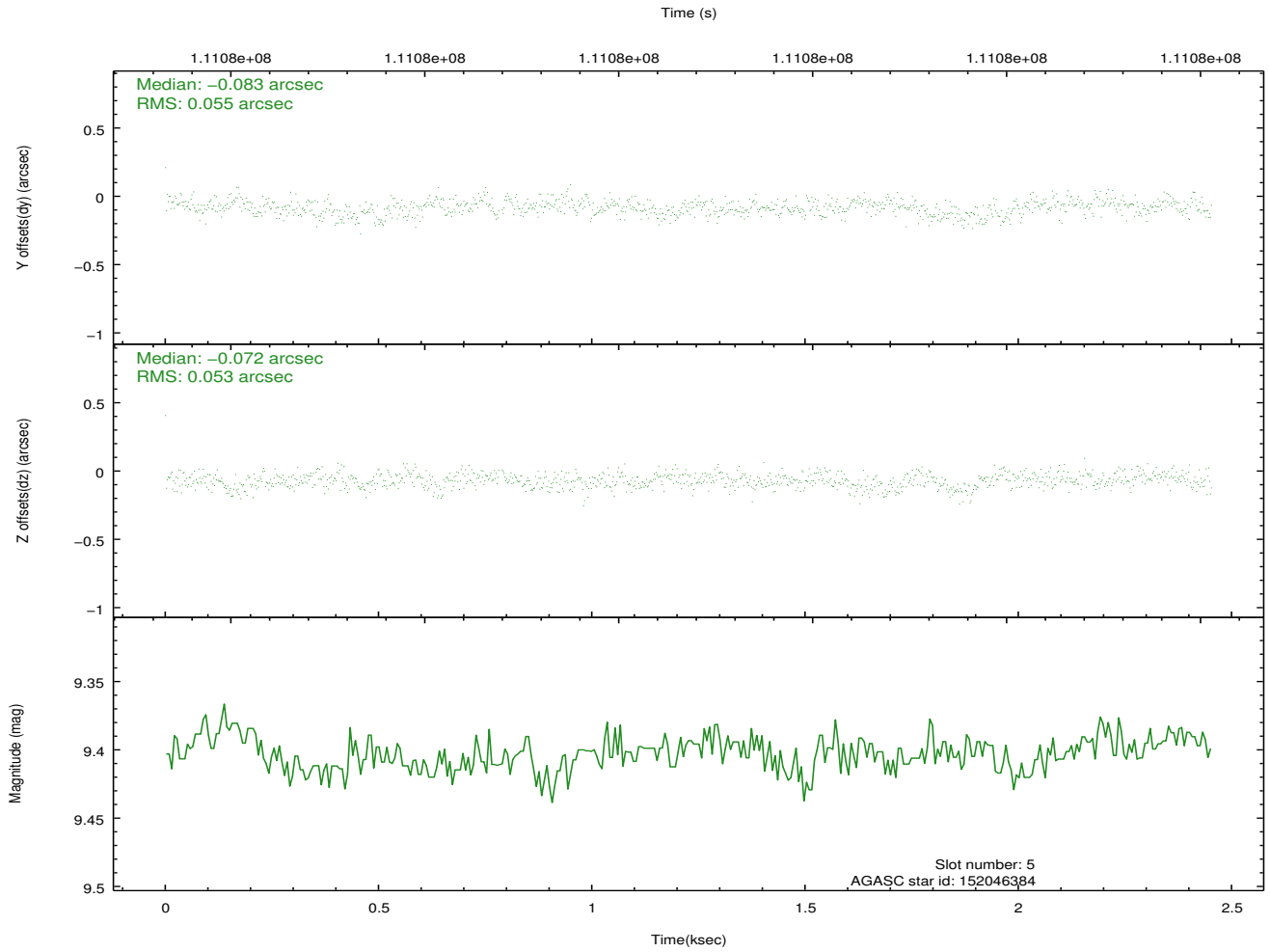
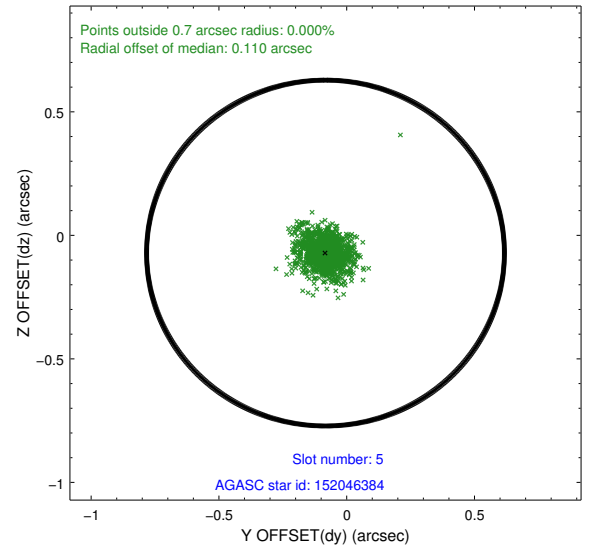
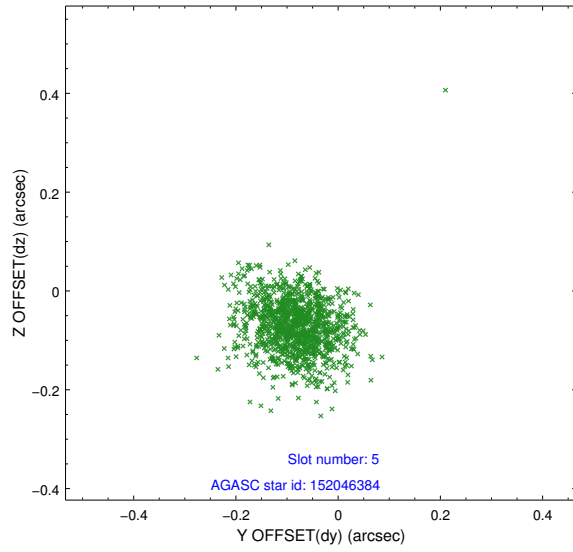
2.4.1 Slot 3



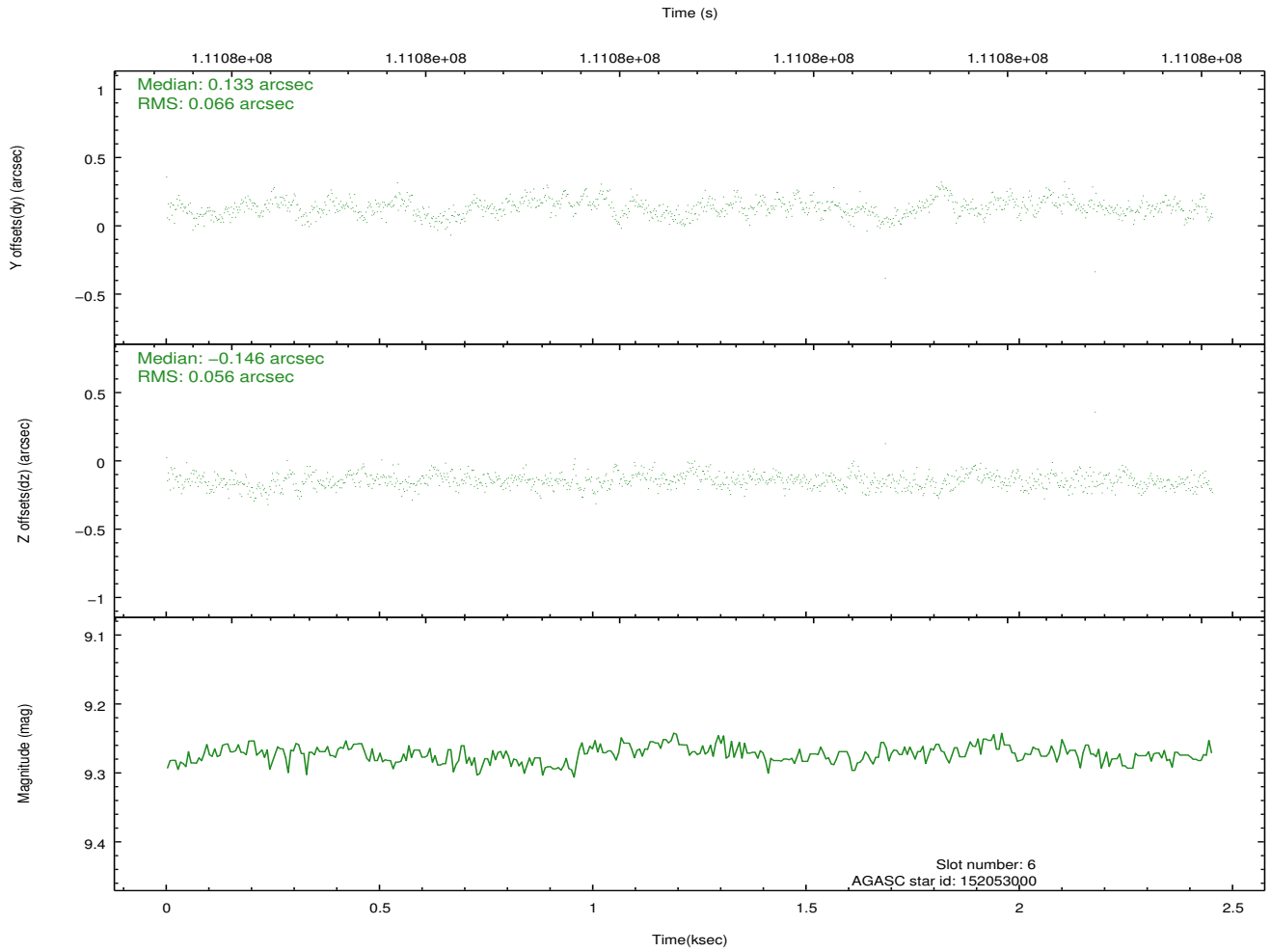
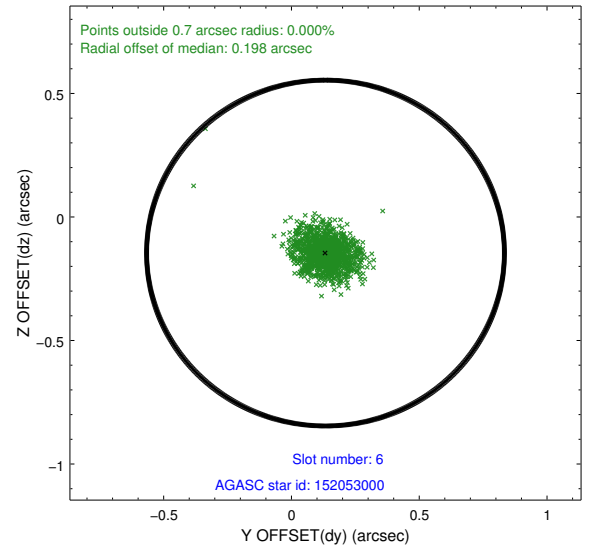
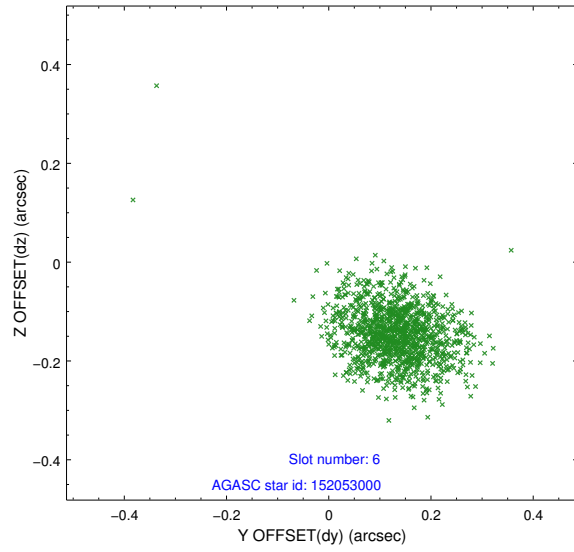
2.4.2 Slot 4



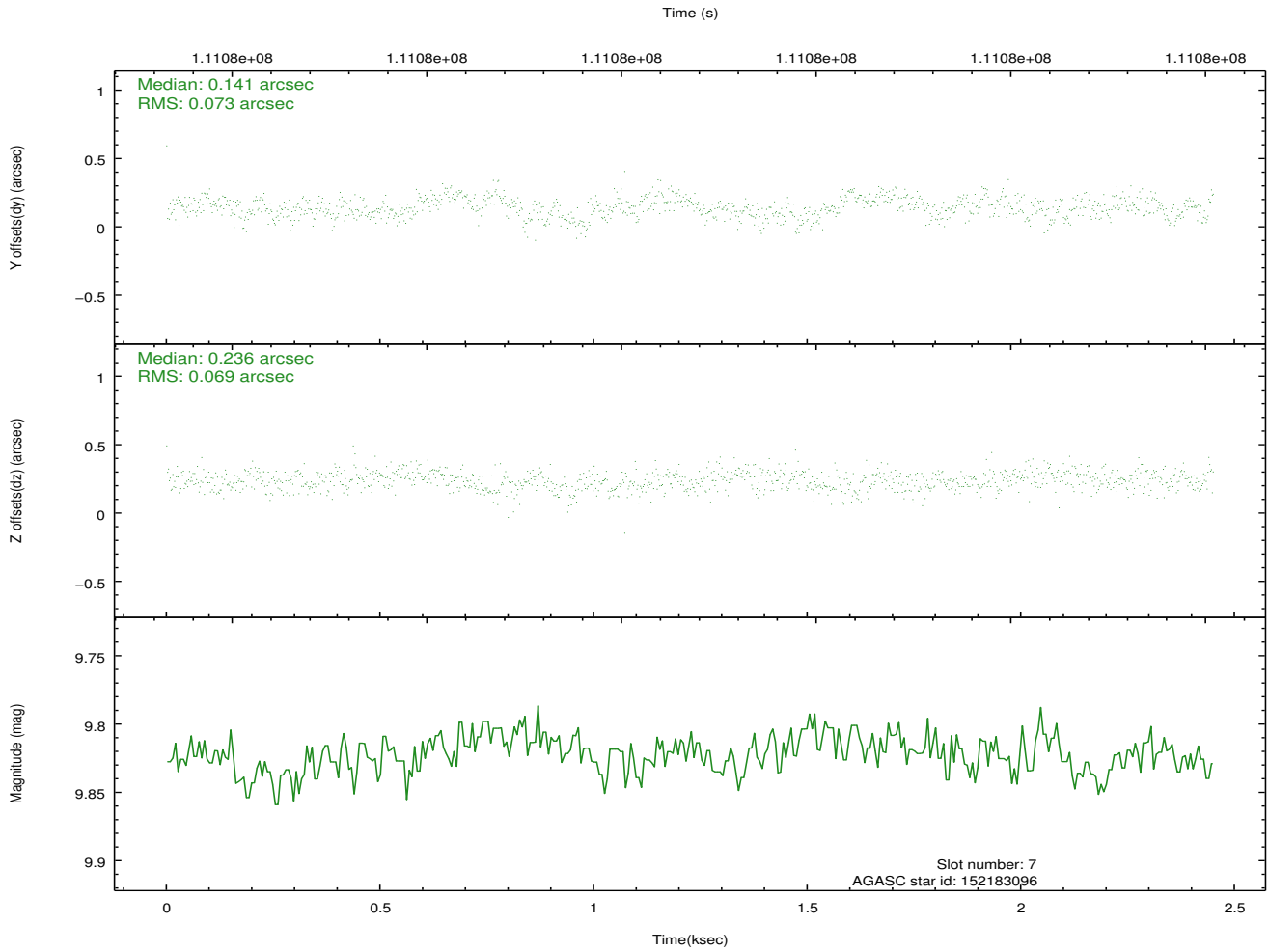
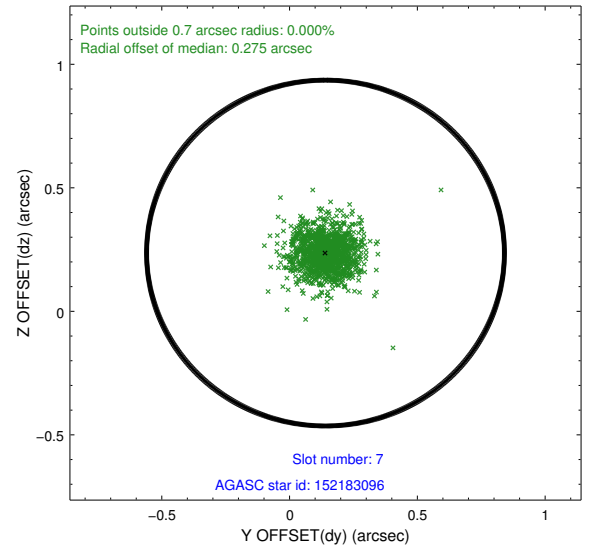
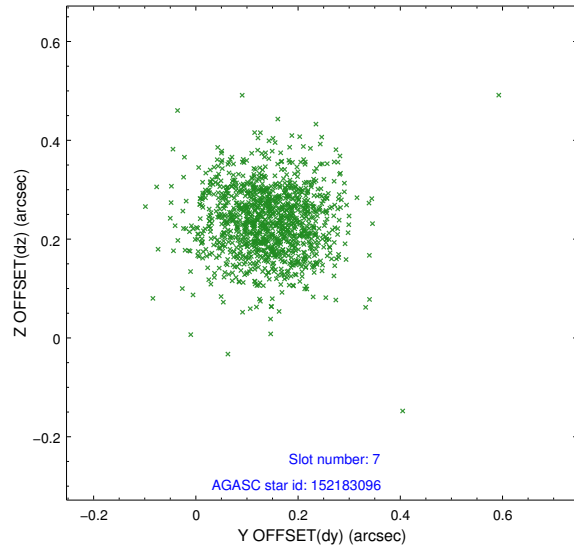
2.4.3 Slot 5



2.4.4 Slot 6

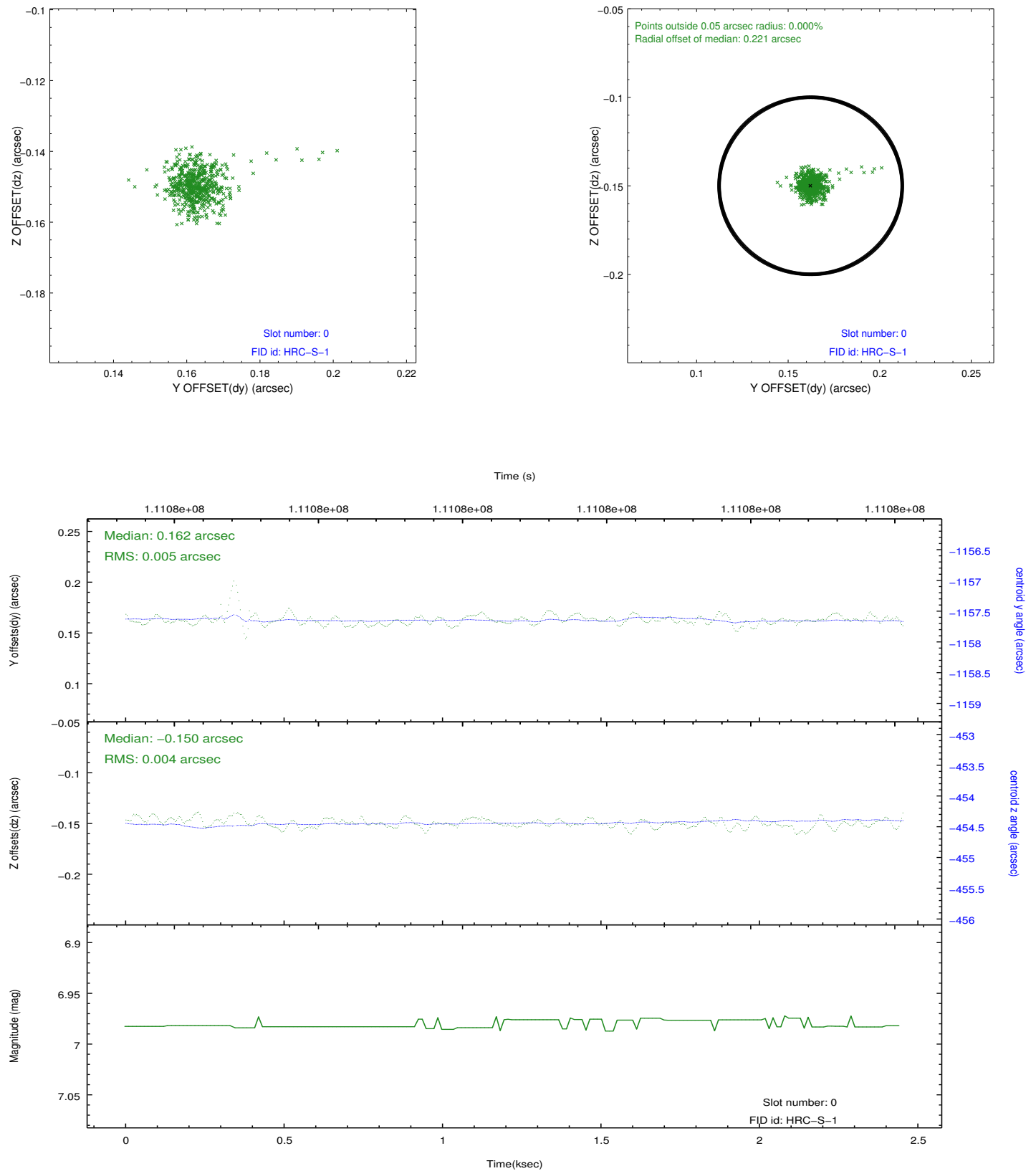


2.4.5 Slot 7

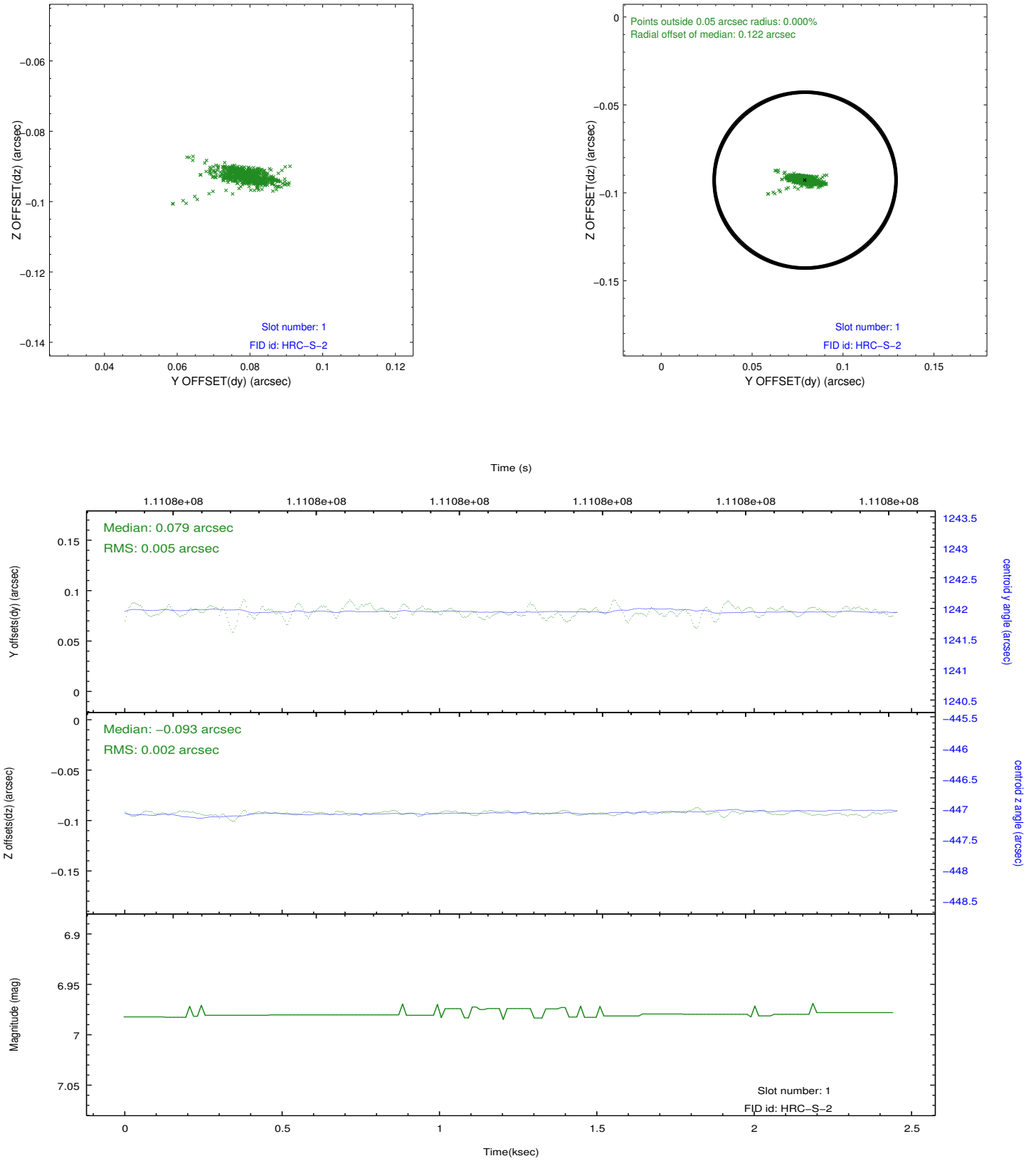


2.5 FID Slots

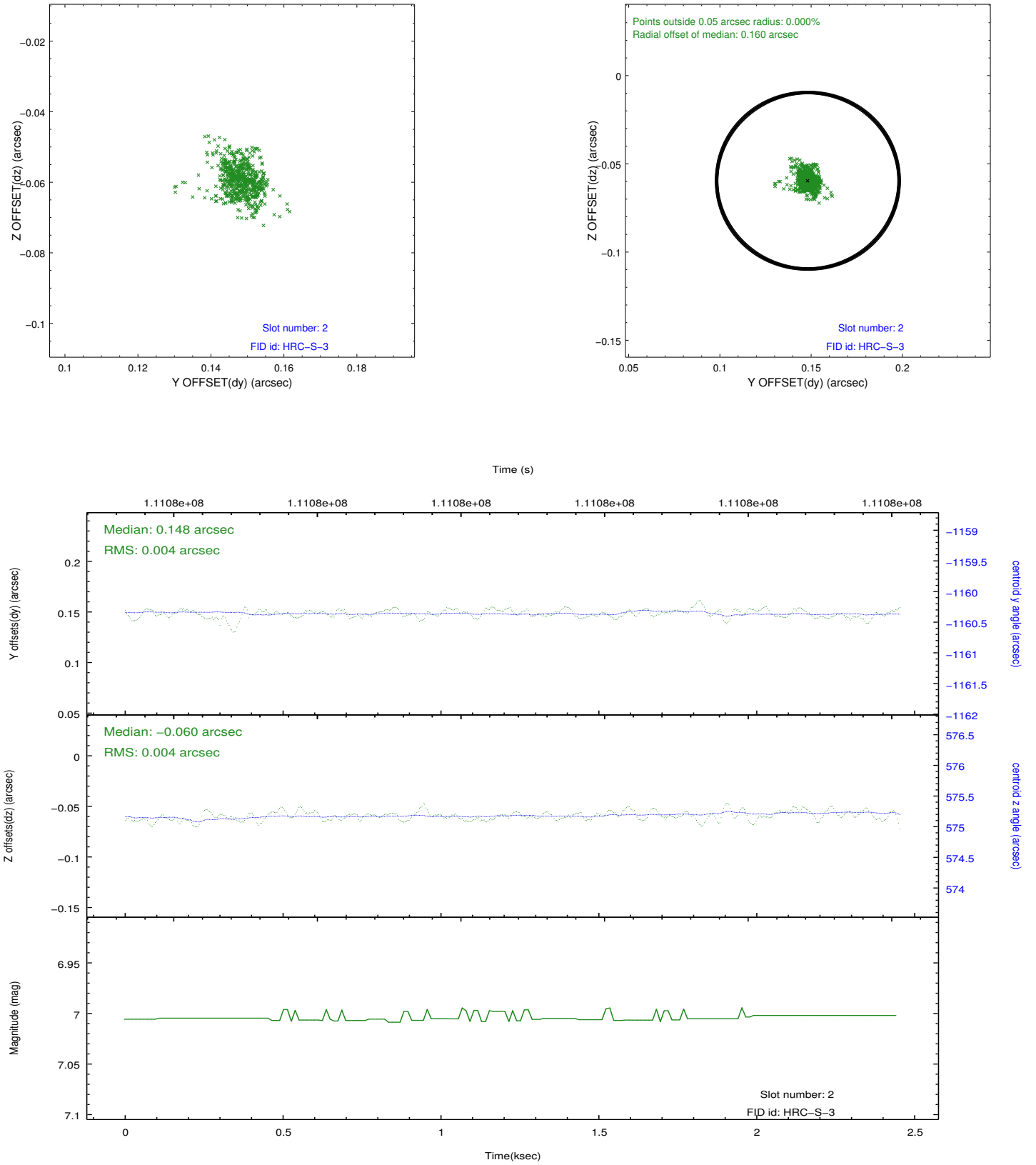
2.5.1 Slot 0



2.5.2 Slot 1

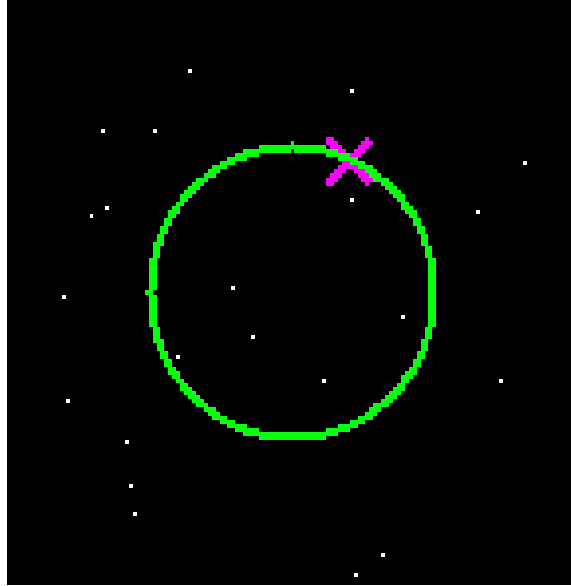


2.5.3 Slot 2

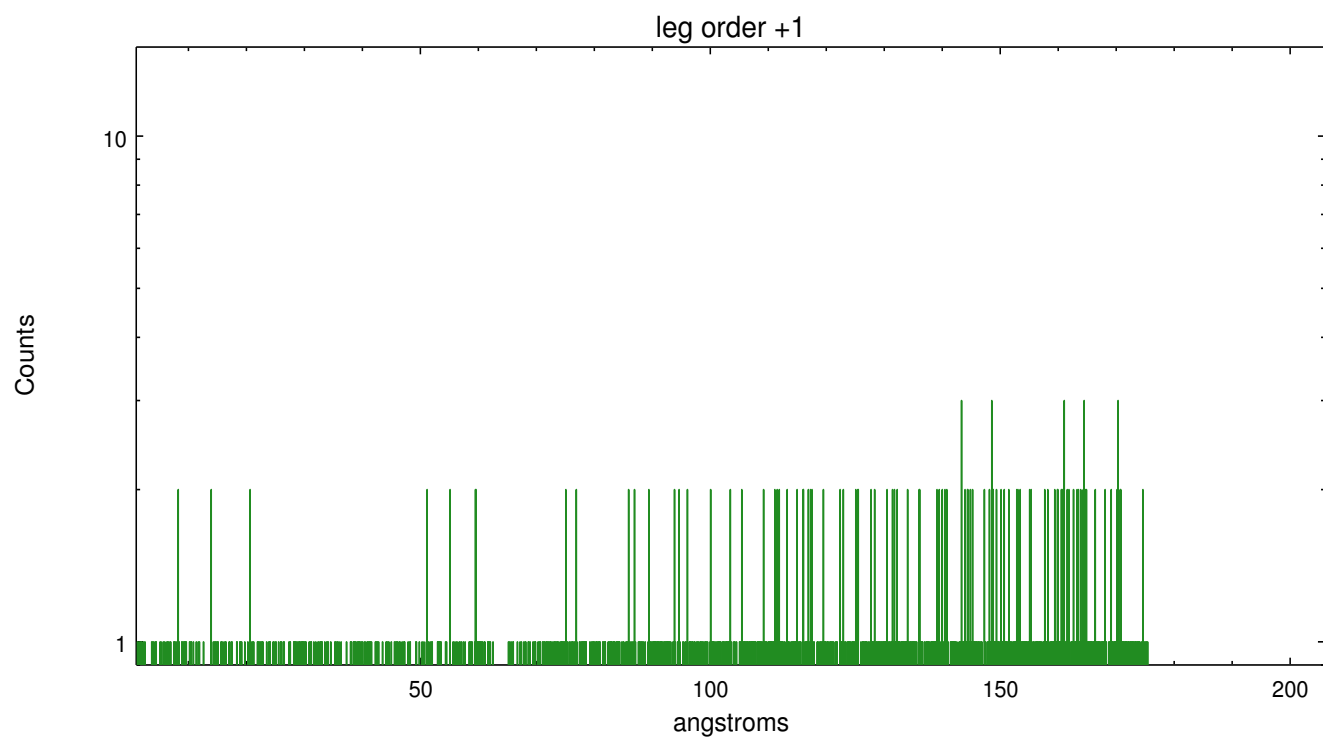
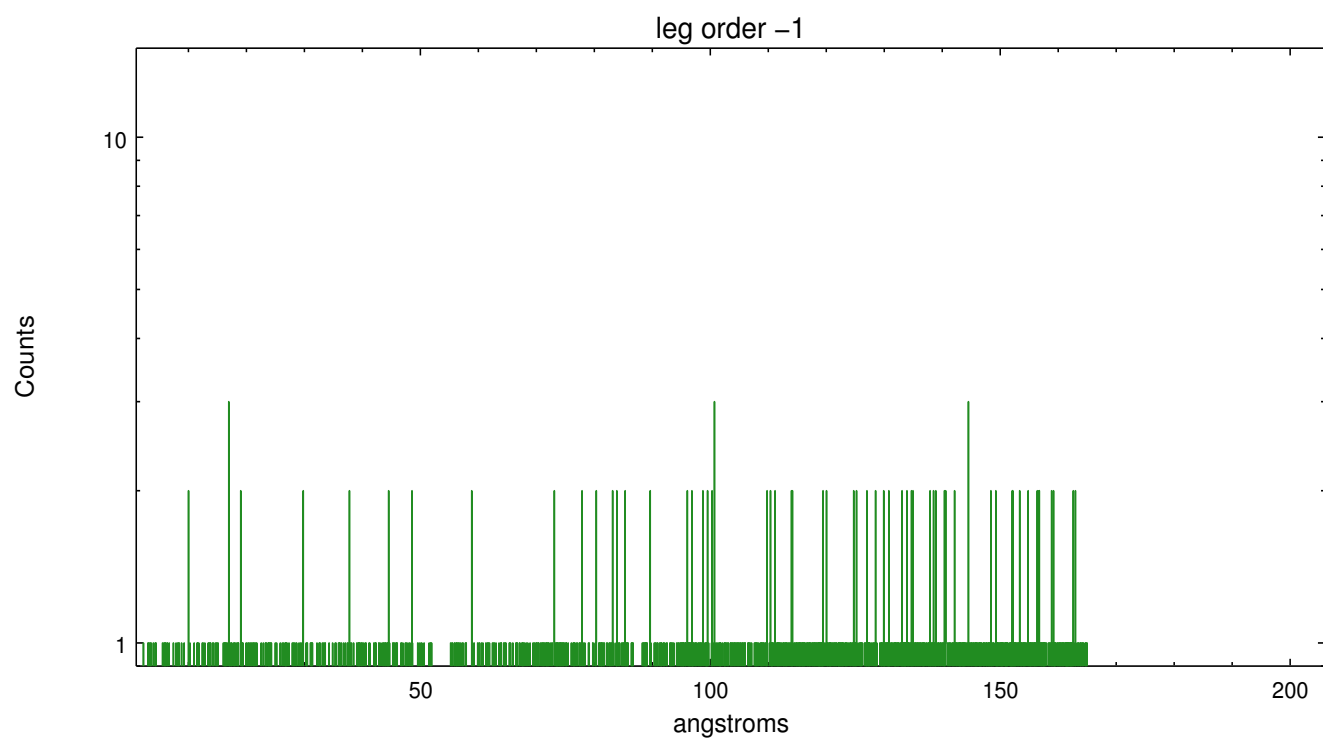


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.071

A.2 Comments

This is an observation of a moving target. Event positions are in the reference from of Chandra, not of the comet. Users should run a software tool such as sso_freeze to reposition the events in the reference from of the comet, then run normal data analysis tools such as tgdetect and spectral extraction.

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Standard software processing technique using the tool tgdetect failed to determine an accurate position for the zeroth order for this observation. The target is moving through the field of view during the observation. The processing software defaulted to the coordinates supplied by the user for the position of the zeroth order for the grating spectral extraction. Spectra products from this processing, which does not include sso_freeze, are not useful.