

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 18715 - L2 Version 1
Chandra X-Ray Center

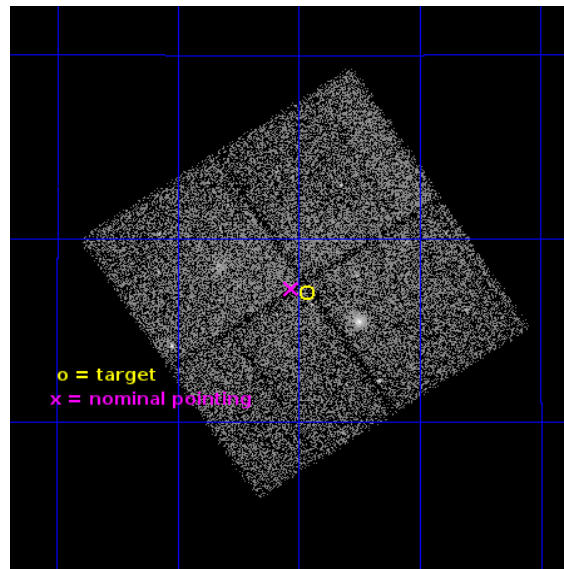
L2 Processing Date : Nov 21 2015

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1 Front

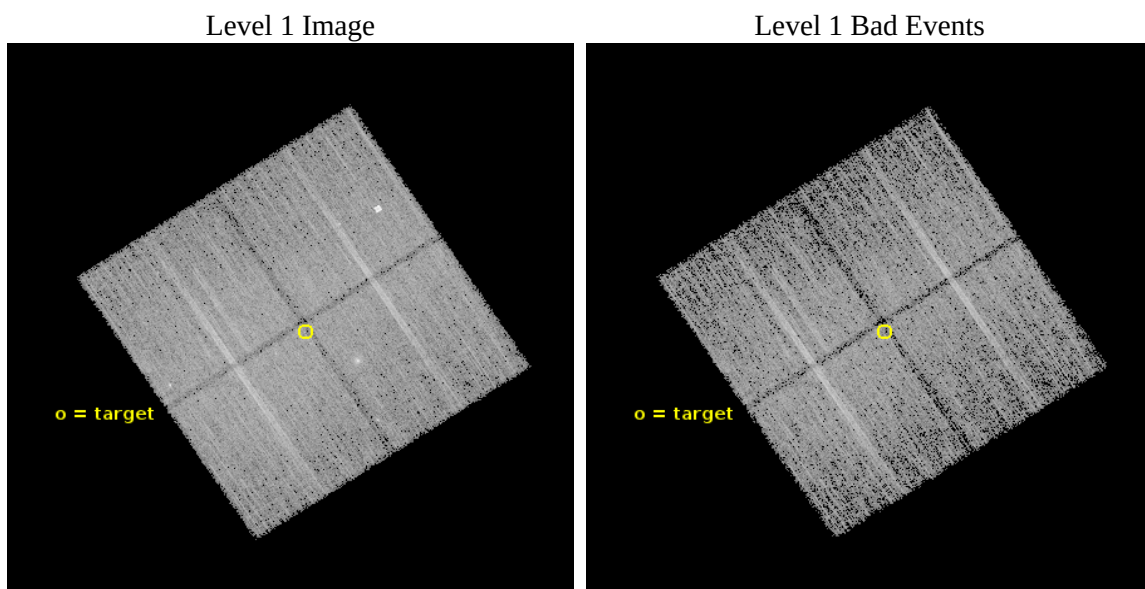
seq_num	801593	Sequence number
obs_id	18715	Observation id
title	The Impact of a High_velocity Merger on the Intra-Group Medium of LGG 72	Proposal title
observer	Dr Ewan O'Sullivan	Principal investigator
object	LGG 72	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	40.866667	Observer's specified target RA [deg]
dec_targ	32.450556	Observer's specified target Dec [deg]
ra_nom	40.882536939358	Nominal RA [deg]
dec_nom	32.454610163569	Nominal Dec [deg]
roll_nom	236.7001726914	Nominal Roll [deg]
revision	1	Processing version of data
ontime	22081.300169945	Sum of GTIs [s]
livetime	21792.791727208	Livetime [s]
ontime0	22081.300169945	Sum of GTIs [s]
ontime1	22078.159139752	Sum of GTIs [s]
ontime2	22081.300169945	Sum of GTIs [s]
ontime3	22081.300169945	Sum of GTIs [s]
l2events	51430	Number of level 2 events



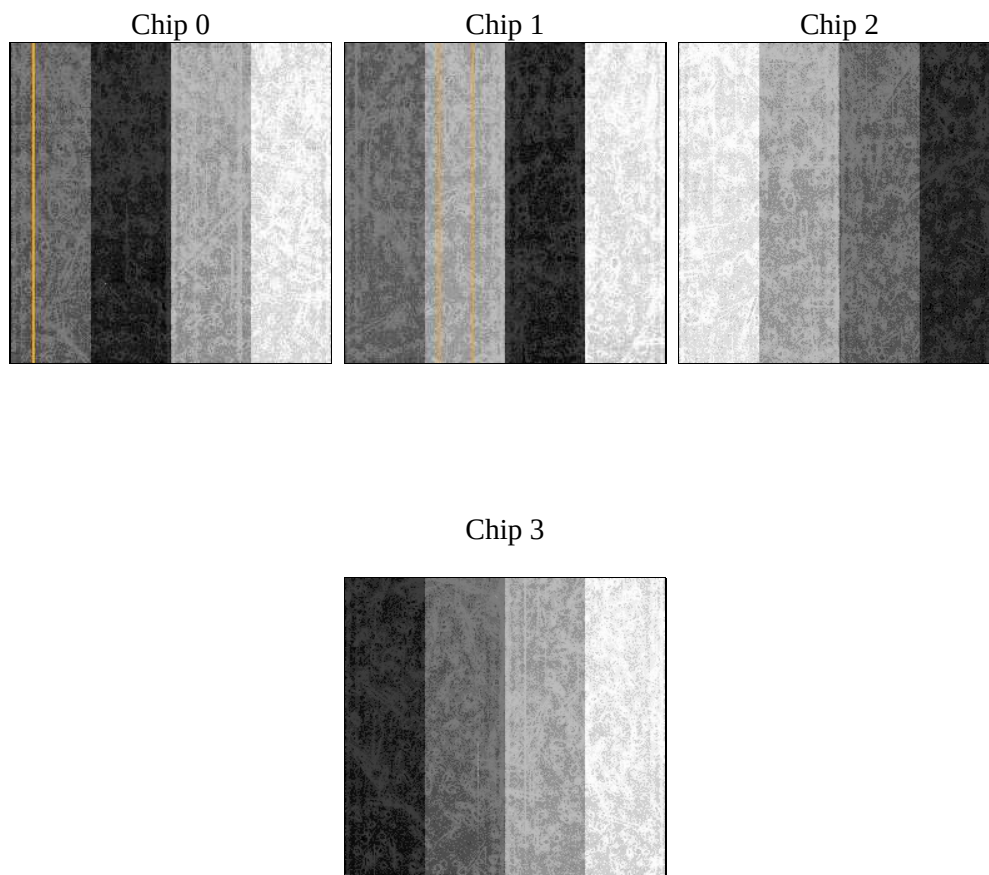
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	22000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	22081.300169945	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	22081.300169945	Sum of GTIs [s]
date	2015-11-21T14:58:51	Date and time of file creation	ontime1	22078.159139752	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	22081.300169945	Sum of GTIs [s]
			ontime3	22081.300169945	Sum of GTIs [s]
			l1events	463026	Number of level 1 events

2.1.4 Events

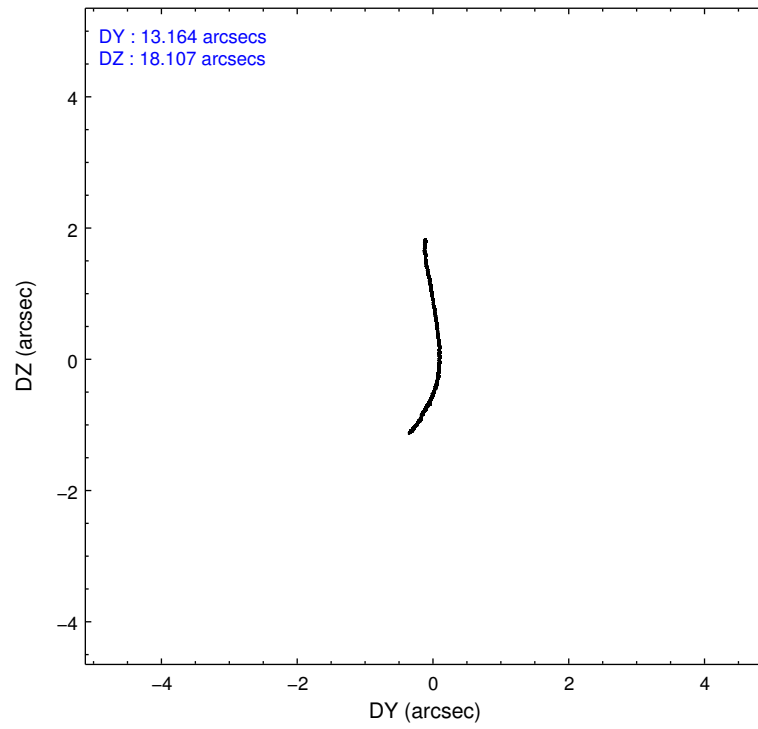
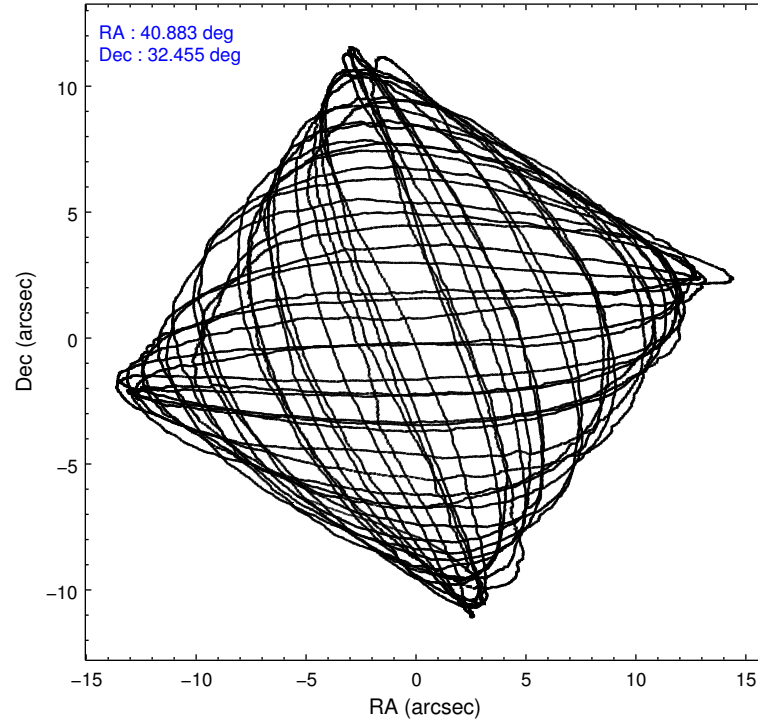
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	112080	114261	118541	118144
rejected events	95850	95714	104774	103416
rejected %	85%	83%	88%	87%

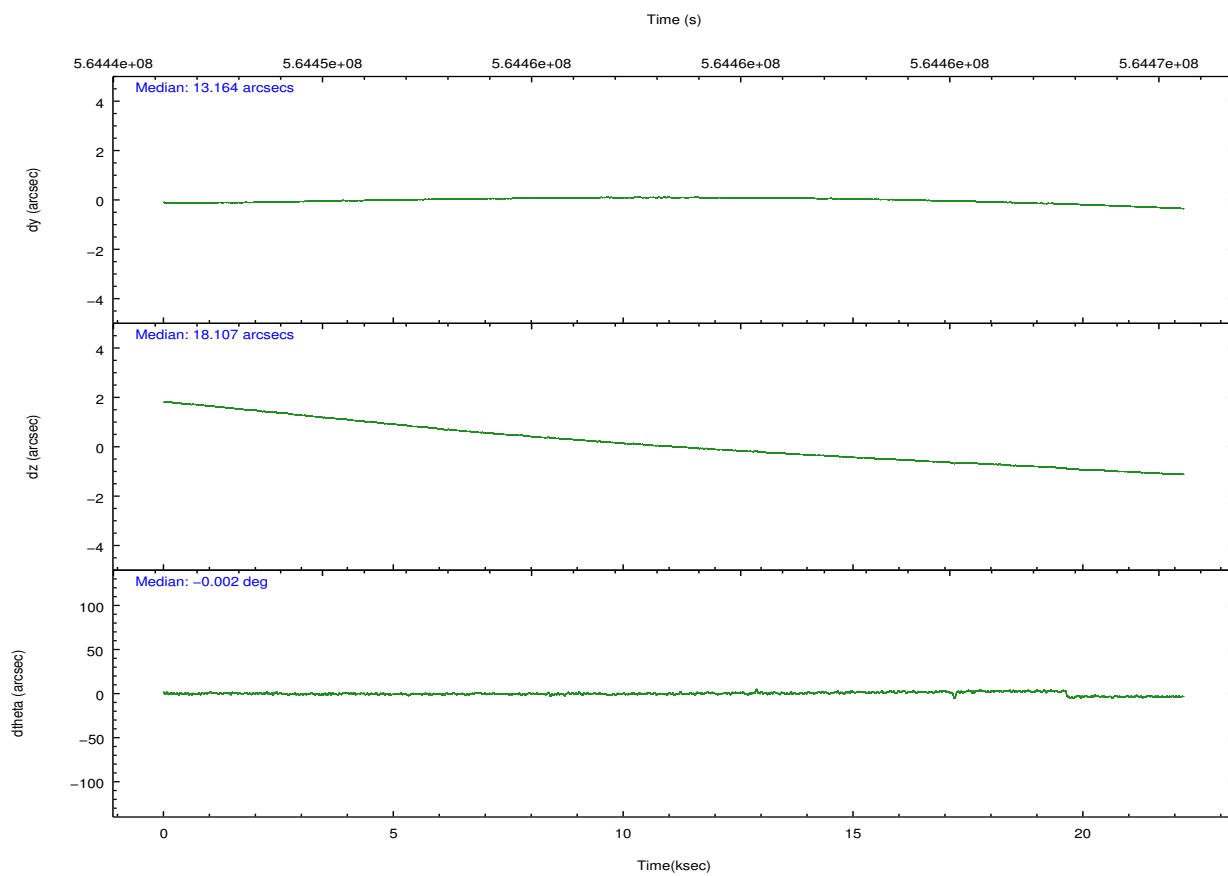
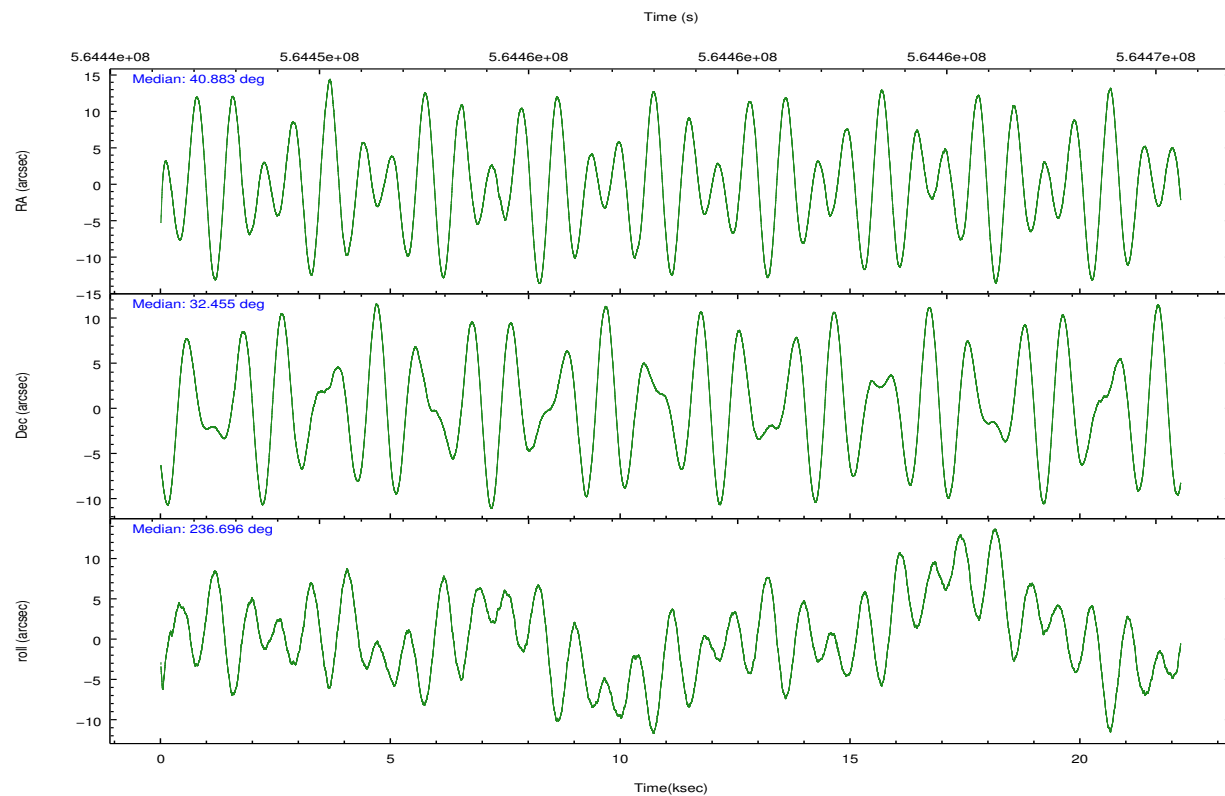
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	6842	8653	5209	5890
	6%	7%	4%	4%
grade 1 events	82	91	75	66
	0%	0%	0%	0%
grade 2 events	3697	3655	3276	3144
	3%	3%	2%	2%
grade 3 events	1462	1457	1261	1471
	1%	1%	1%	1%
grade 4 events	1337	1450	1395	1504
	1%	1%	1%	1%
grade 5 events	5412	5681	4814	6032
	4%	4%	4%	5%
grade 6 events	2898	3336	2630	2722
	2%	2%	2%	2%
grade 7 events	90350	89938	99881	97315
	80%	78%	84%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	40.884292	40.88253693935792	CCD I2 on	Y	Y
[deg] Pointing Dec	32.482205	32.4546101635691	CCD I3 on	Y	Y
[deg] Pointing Roll	236.490548	236.7001726913999	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	564447489.184000	564446194.26376	CCD S5 on	N	N
Observation start date	2015-11-20T22:57:01	2015-11-20T22:36:34	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	564469489.184000	564470662.55264	On-chip summing requested	N	N
Observation end date	2015-11-21T05:03:41	2015-11-21T05:24:22	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



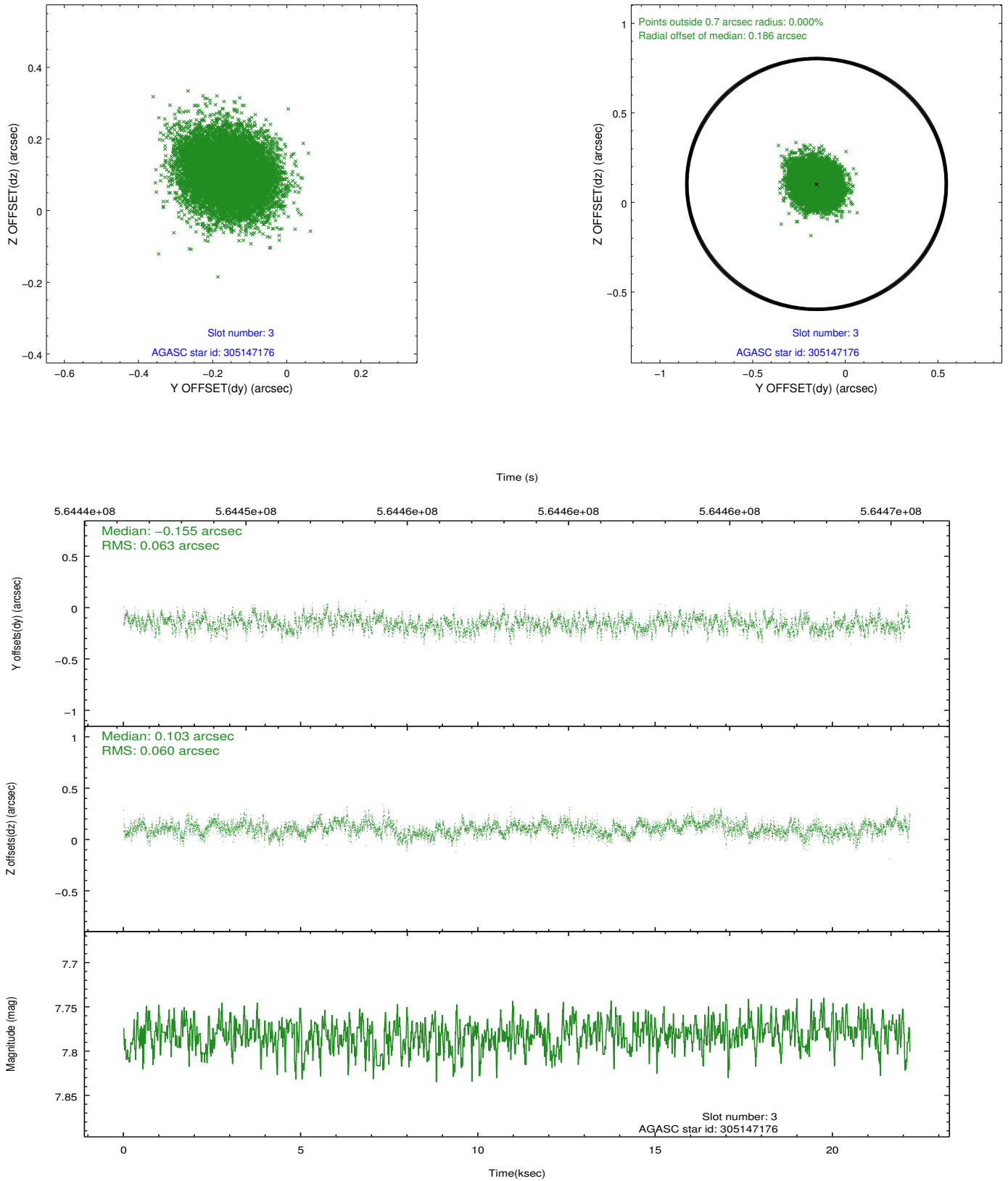


Slot Statistics

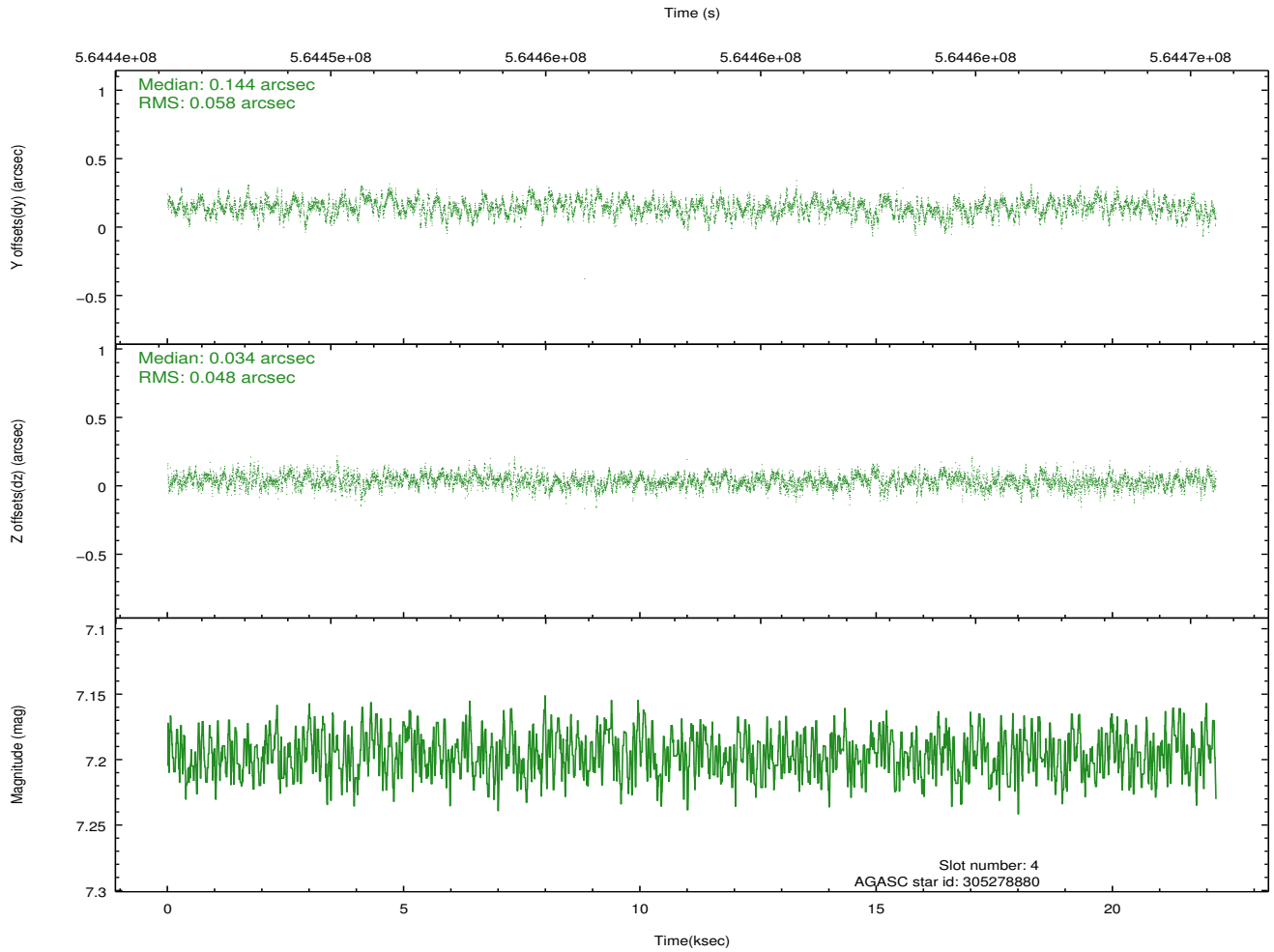
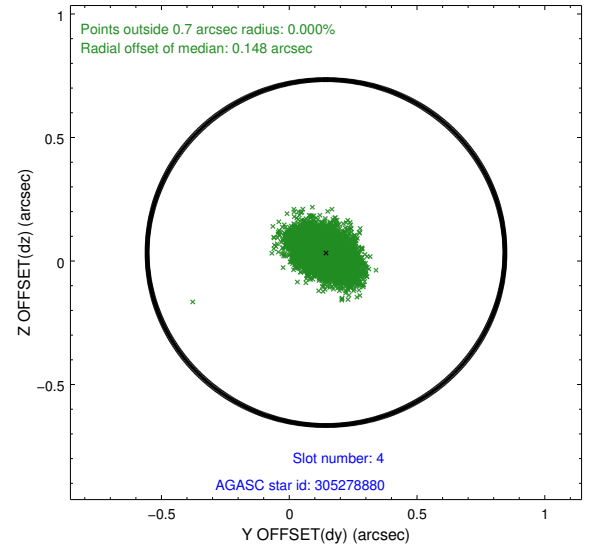
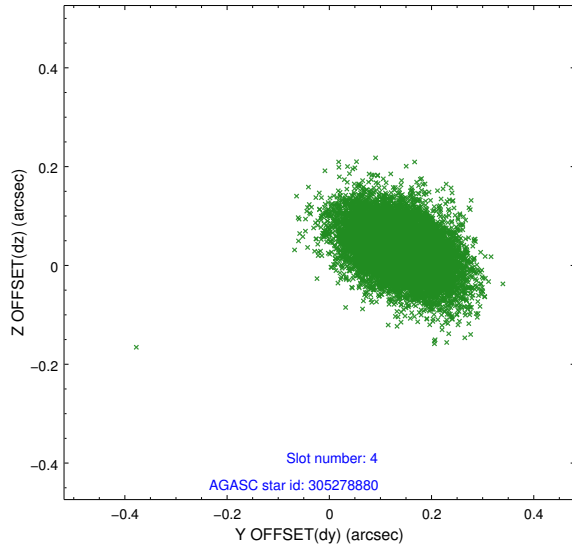
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.15	5410	-0.177	-0.033	0.031	0.074	0.000000	0.000000	-767.99	-848.32
1	FID		ACIS-I-4	7.20	5410	0.385	0.106	0.023	0.035	0.000000	0.000000	2146.58	1057.89
2	FID		ACIS-I-5	7.25	5411	-0.308	-0.004	0.017	0.041	0.000000	0.000000	-1821.73	1055.84
3	GUIDE	used	305147176	7.78	10817	-0.155	0.103	0.093	0.149	40.109077	32.320442	1780.90	-1649.15
4	GUIDE	used	305278880	7.20	10821	0.144	0.034	0.079	0.133	41.005714	32.370308	132.62	530.29
5	GUIDE	used	305271112	7.72	10821	0.077	-0.050	0.087	0.138	40.672539	32.901478	-905.08	-1365.75
6	GUIDE	used	305275512	7.70	10750	-0.101	-0.009	0.098	0.155	40.696155	32.869449	-848.21	-1243.88
7	GUIDE	used	305274344	9.03	10817	0.031	-0.080	0.103	0.163	41.280796	32.752238	-1474.36	464.33

2.4 Star Slots

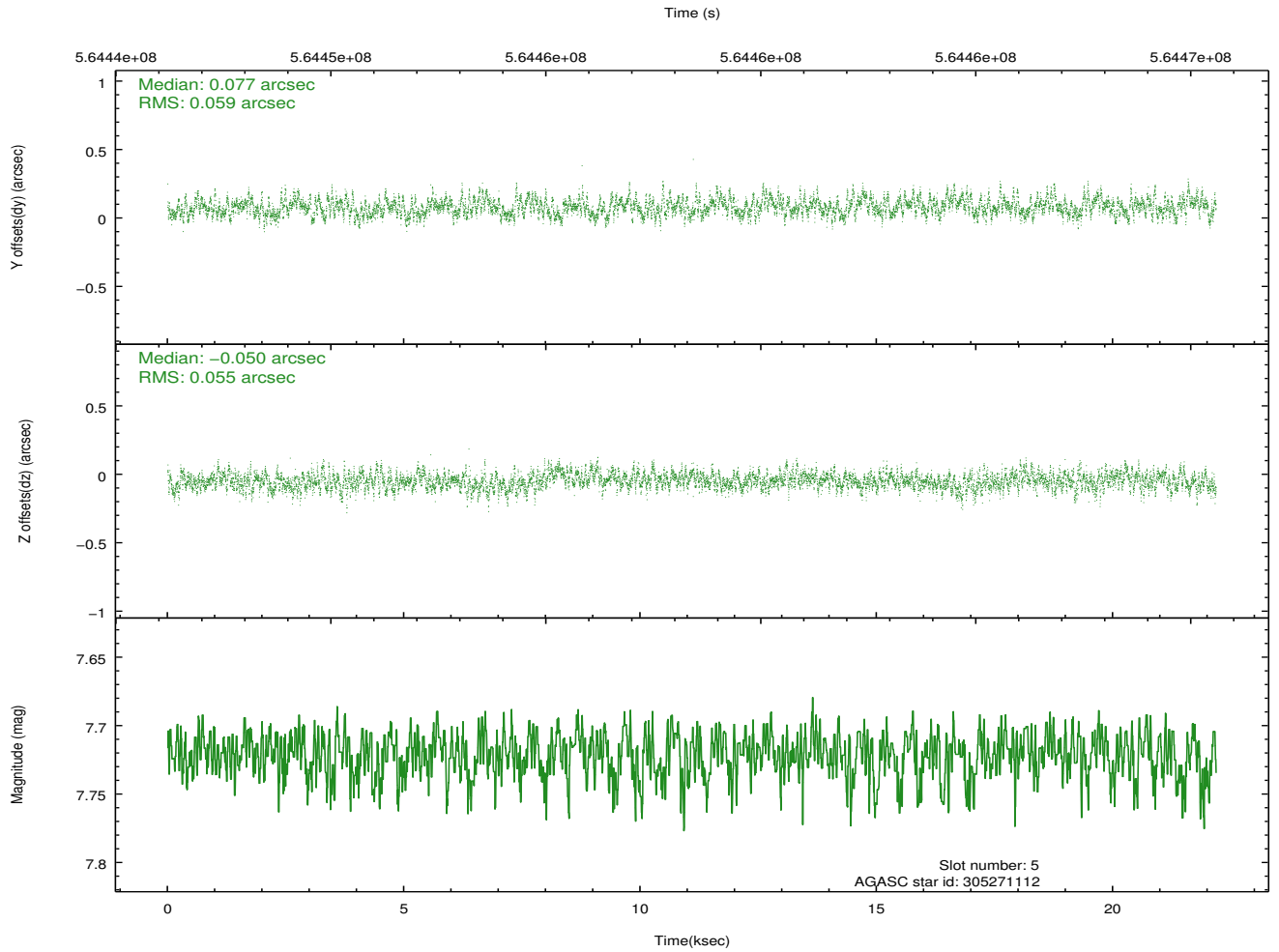
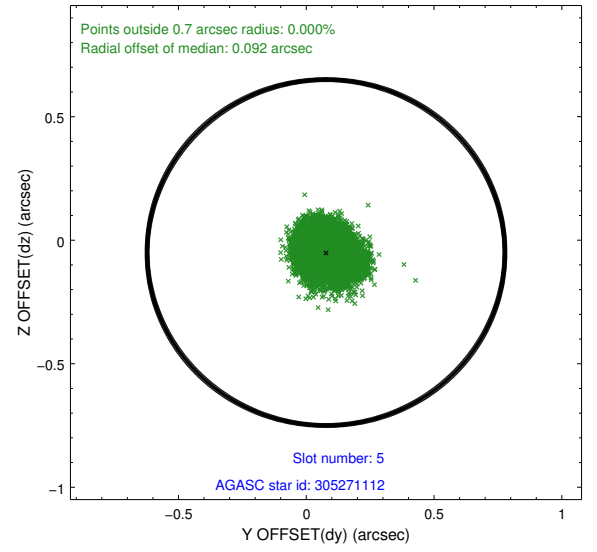
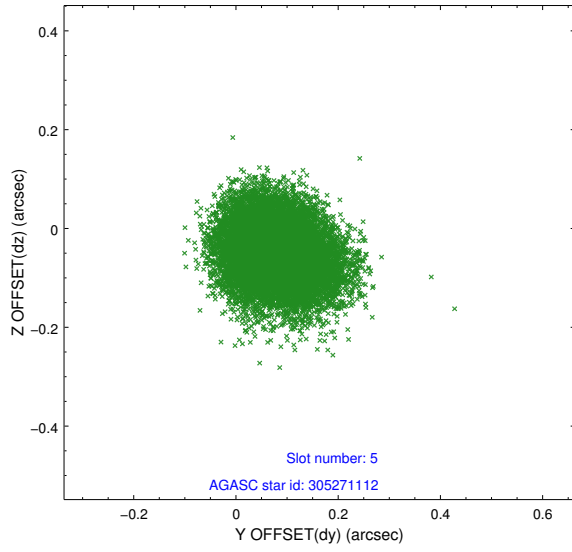
2.4.1 Slot 3



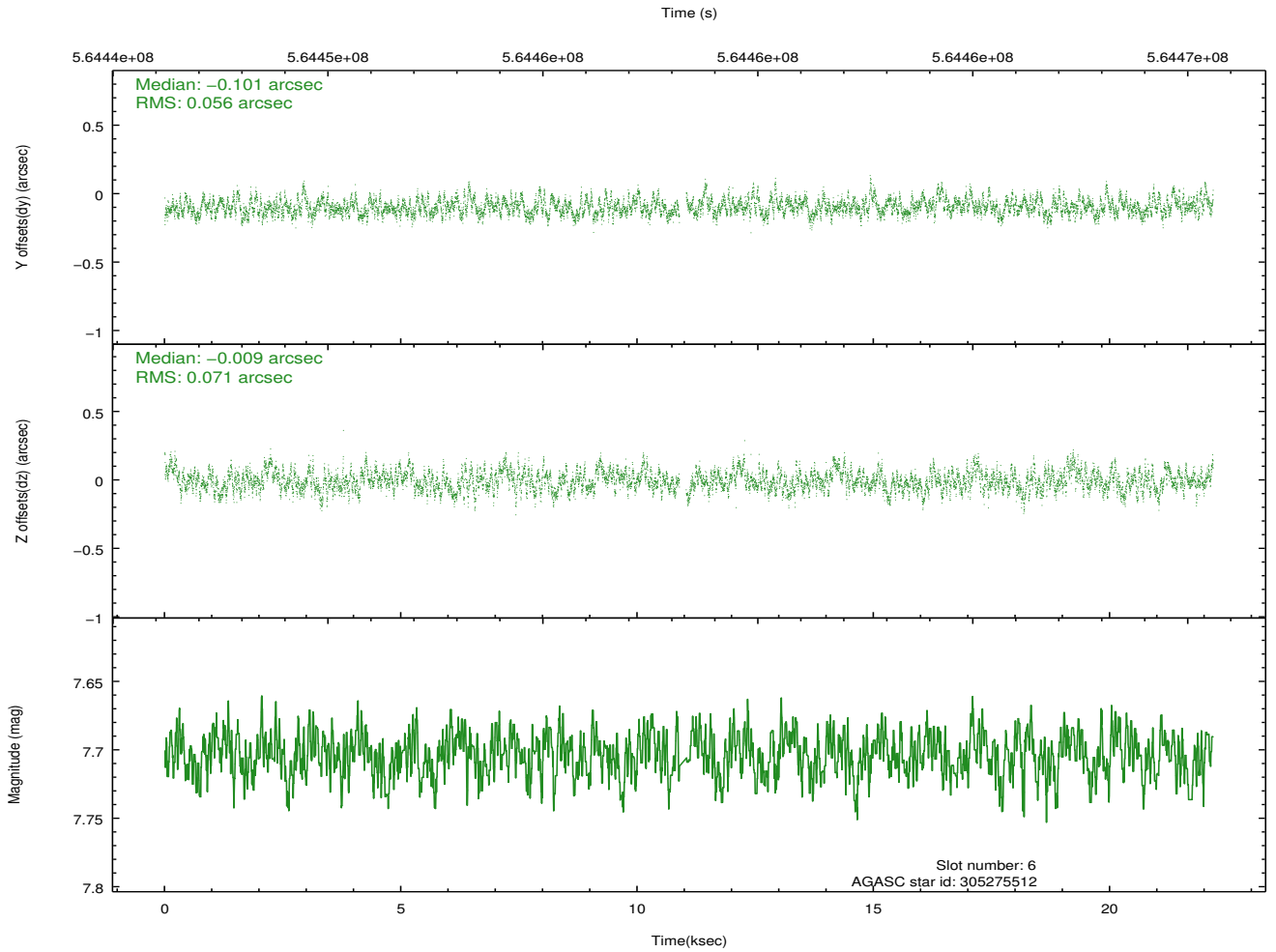
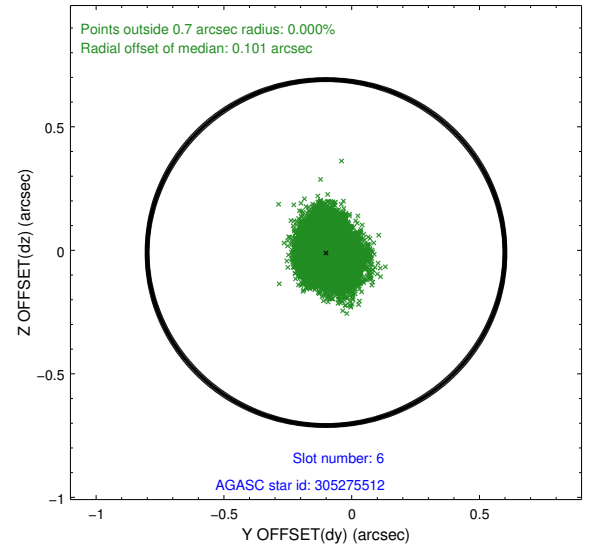
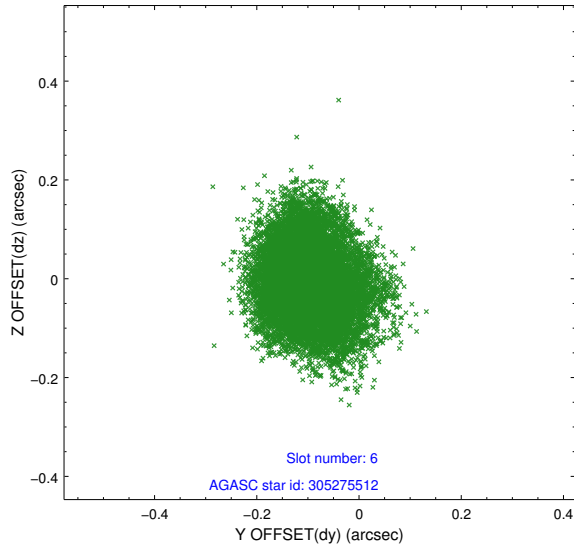
2.4.2 Slot 4



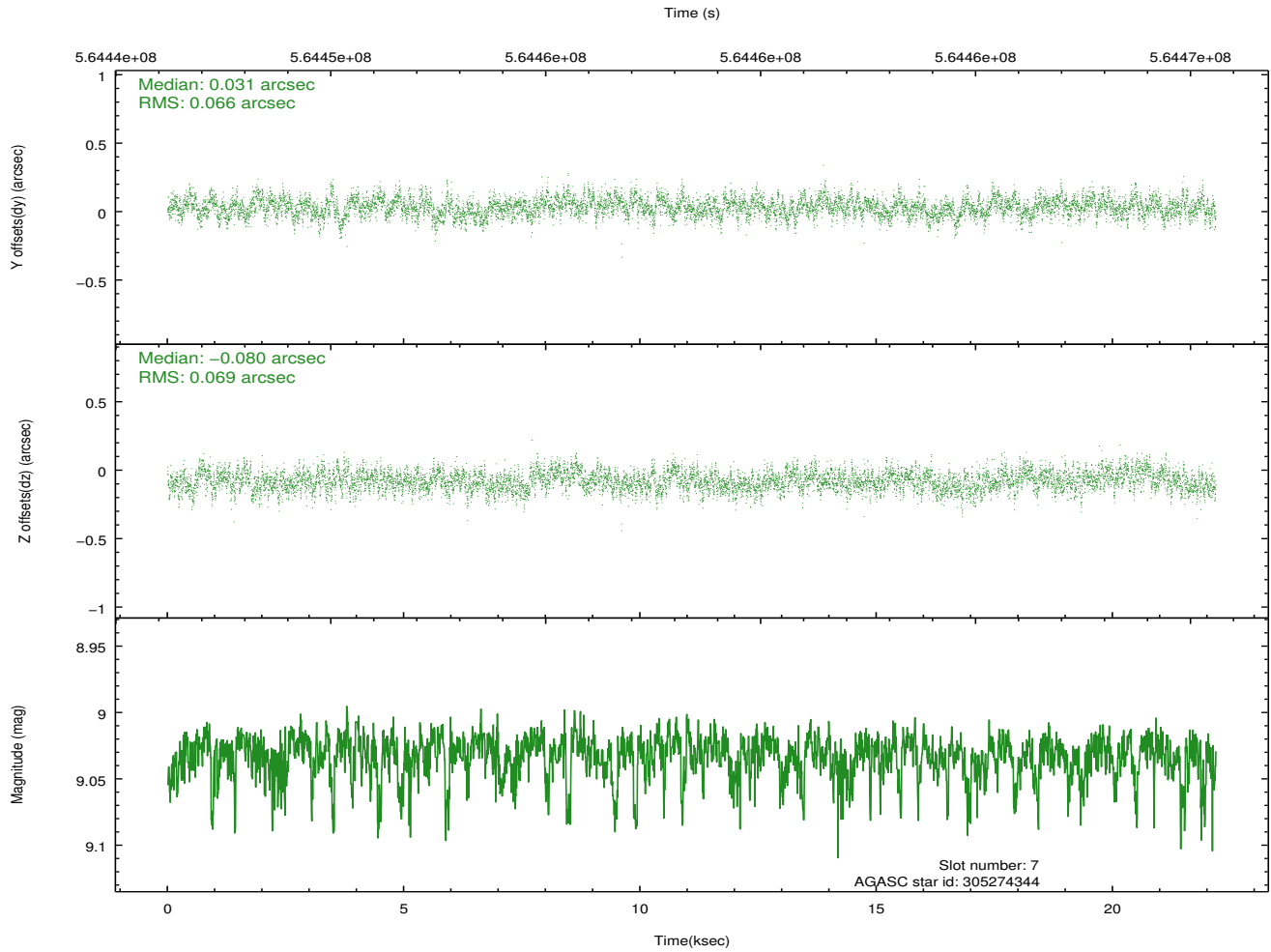
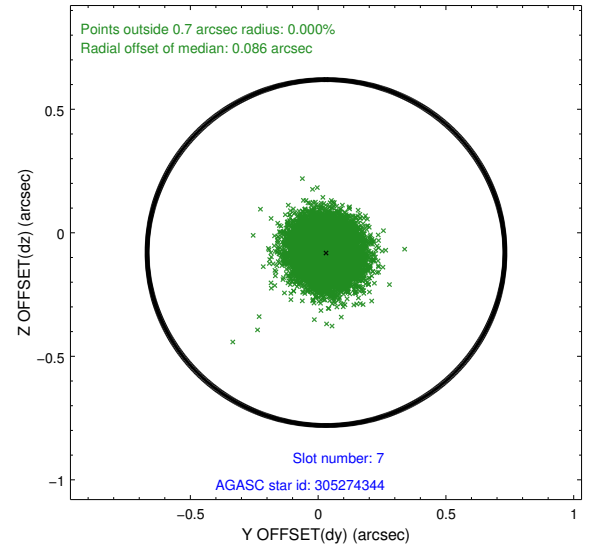
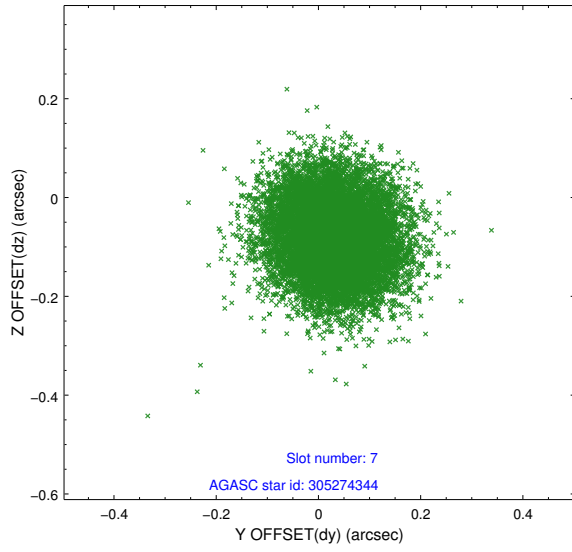
2.4.3 Slot 5



2.4.4 Slot 6

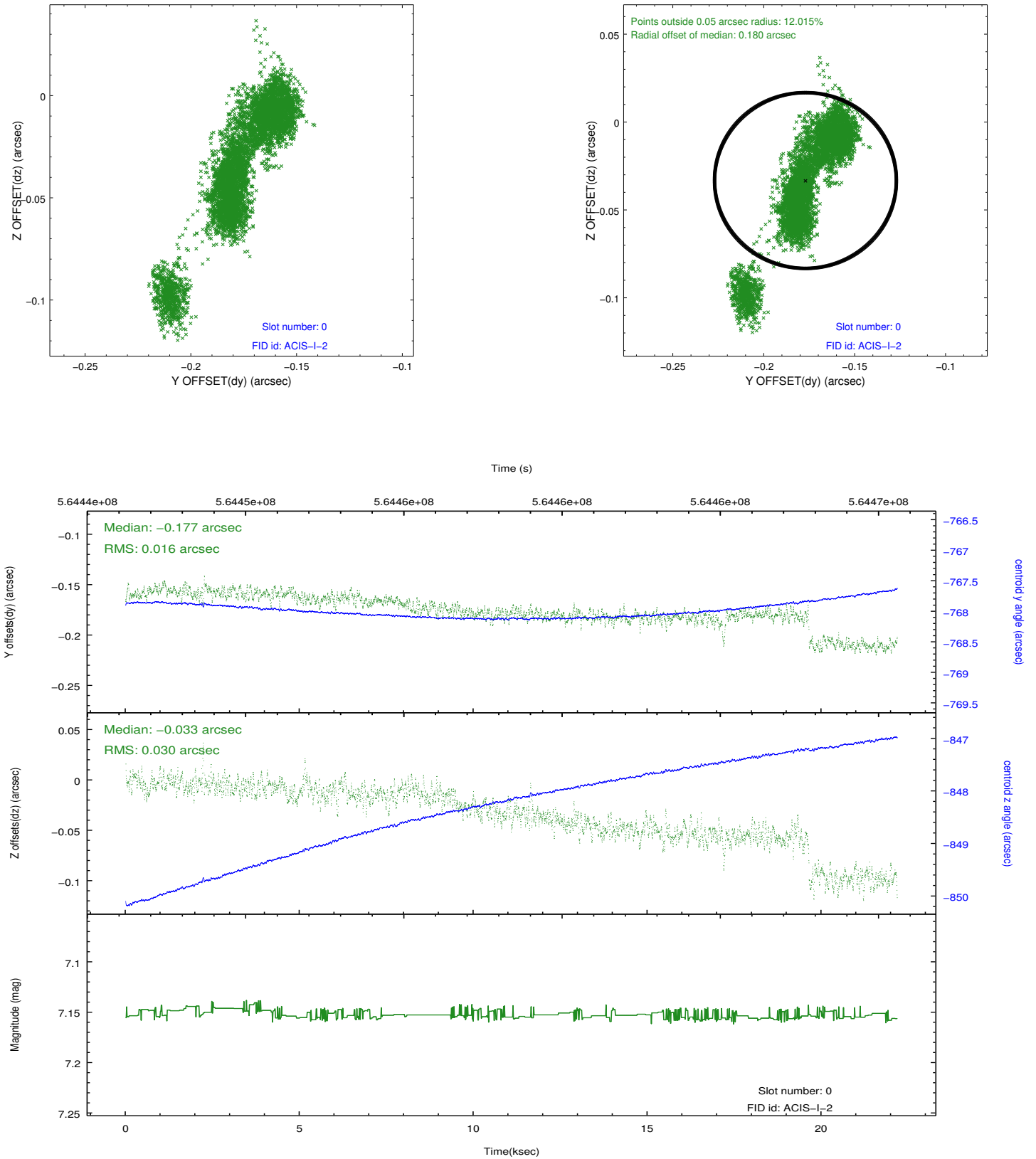


2.4.5 Slot 7

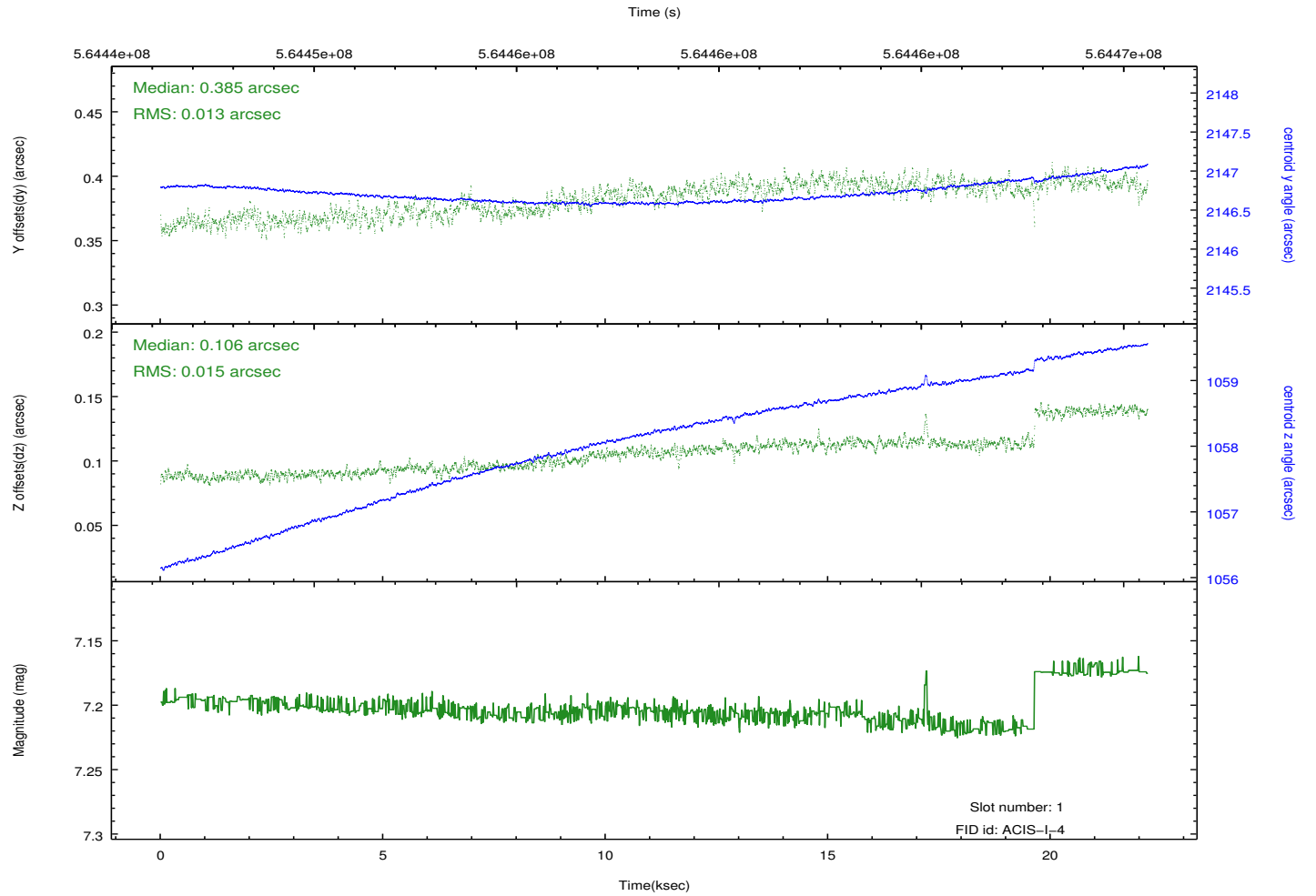
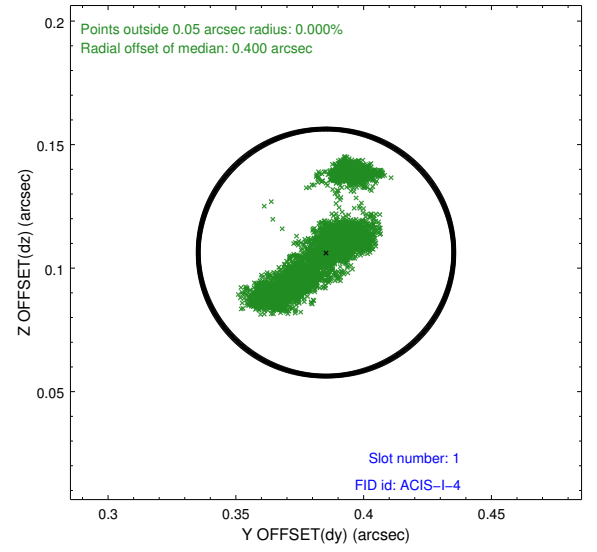
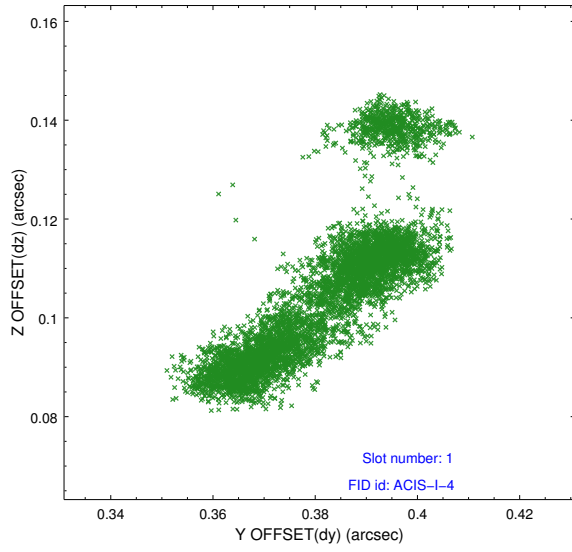


2.5 FID Slots

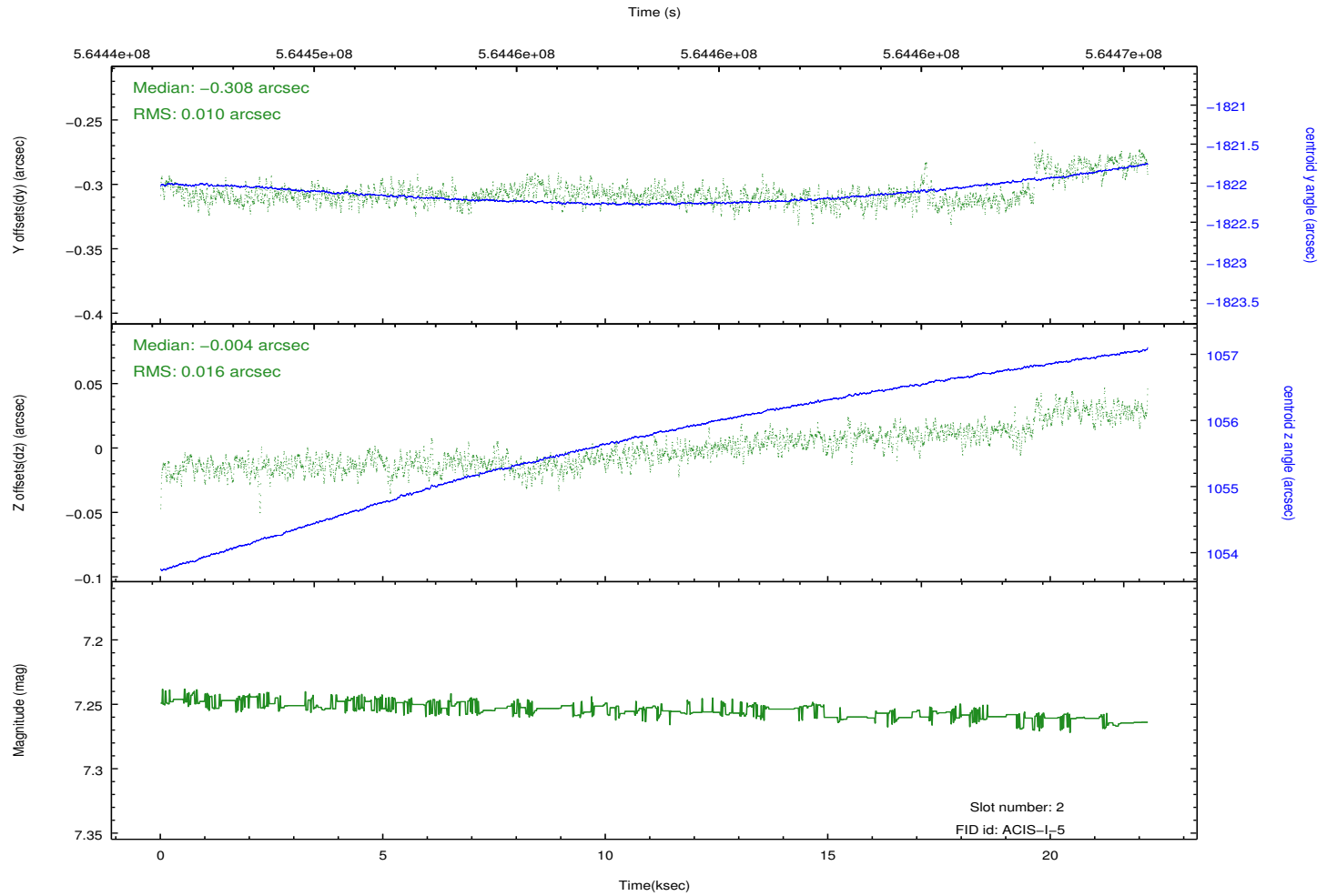
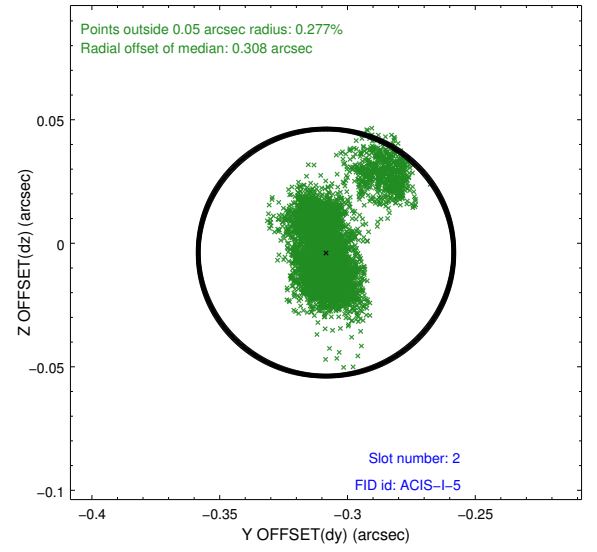
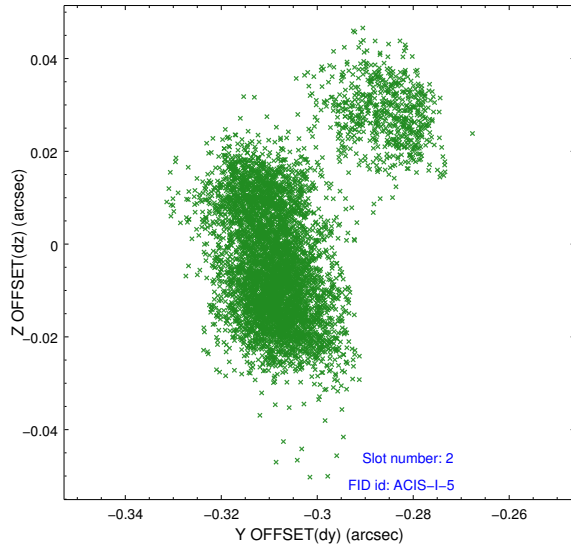
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.11.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.081300169945

A.2 Comments