

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14442 - L2 Version 1
Chandra X-Ray Center

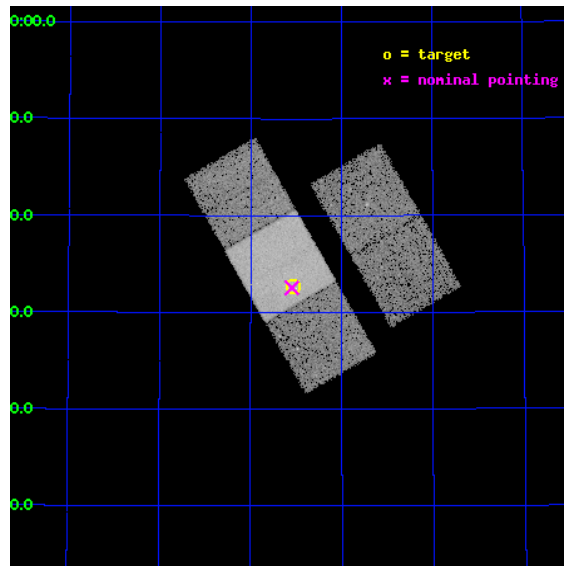
L2 Processing Date : Jun 6 2012

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1 Front

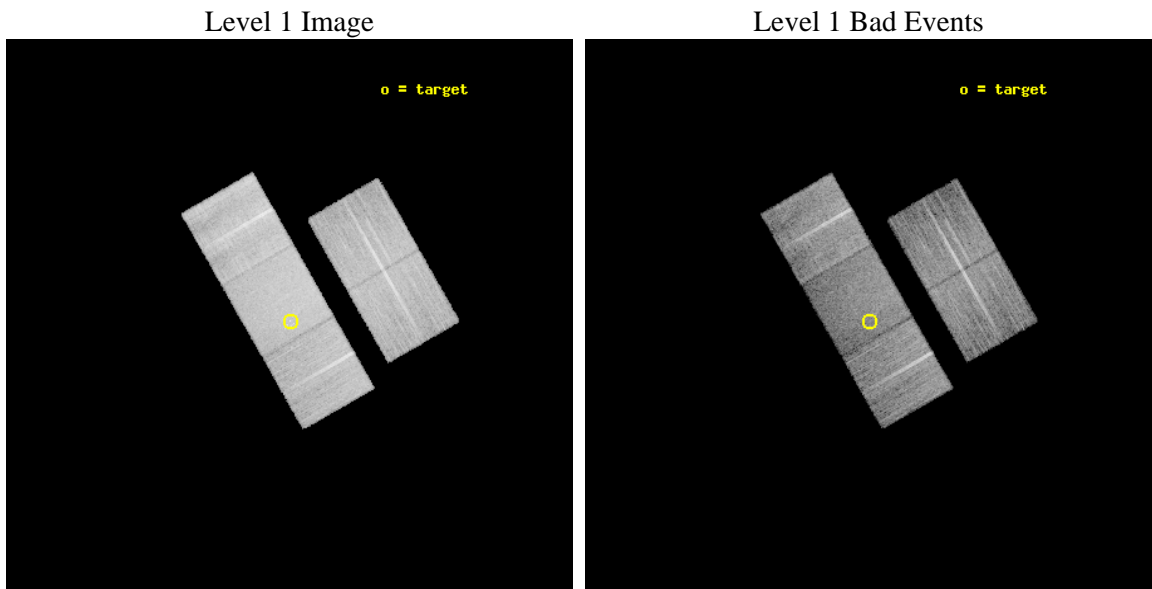
seq_num	401435	Sequence number
obs_id	14442	Observation id
title	Unveiling an intermediate-mass black hole in the spiral galaxy NGC 4088	Proposal title
observer	Dr. Mar Mezcua	Principal investigator
object	NGC 4088 ULX 1	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	181.384583	Observer's specified target RA [deg]
dec_targ	50.545167	Observer's specified target Dec [deg]
ra_nom	181.38679221716	Nominal RA [deg]
dec_nom	50.542497510851	Nominal Dec [deg]
roll_nom	240.24761957657	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20065.073279798	Sum of GTIs [s]
livetime	19802.908325705	Livetime [s]
ontime2	20055.486238718	Sum of GTIs [s]
ontime3	20064.991199791	Sum of GTIs [s]
ontime6	20065.032239795	Sum of GTIs [s]
ontime7	20065.073279798	Sum of GTIs [s]
ontime8	20064.950159788	Sum of GTIs [s]
l2events	112892	Number of level 2 events



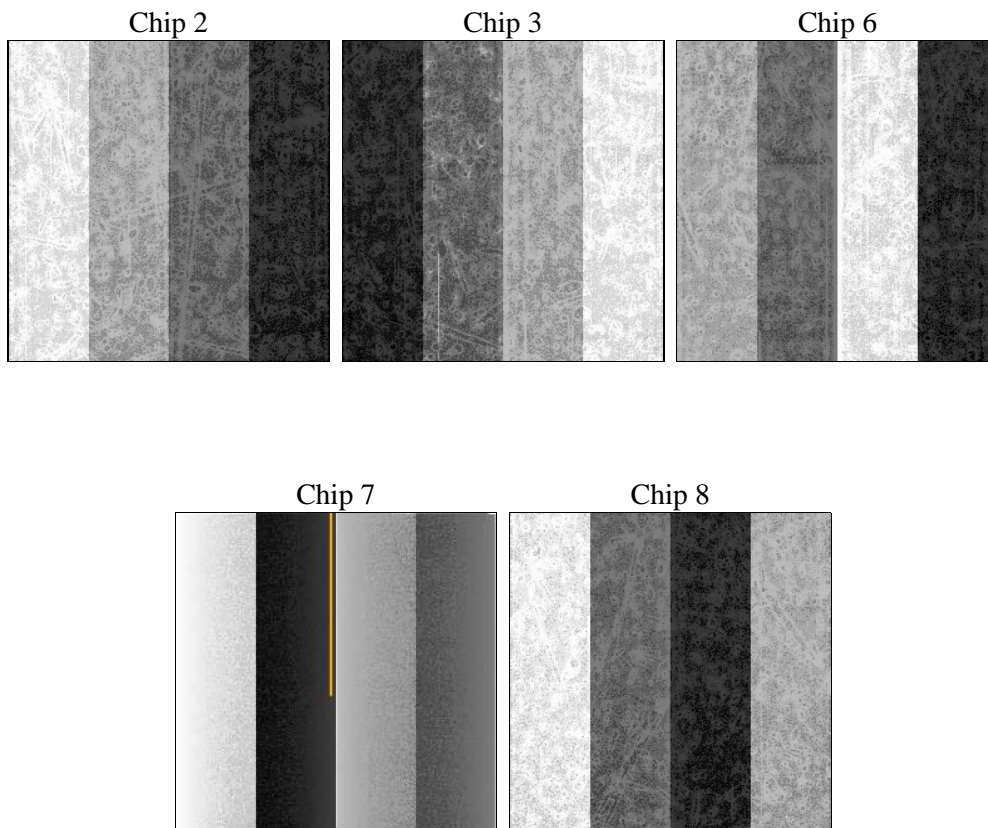
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	20065.073279798	Sum of GTIs [s]
caldbver	4.4.10	 	ontime2	20055.486238718	Sum of GTIs [s]
date	2012-06-06T15:06:21	Date and time of file creation	ontime3	20064.991199791	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	20065.032239795	Sum of GTIs [s]
			ontime7	20065.073279798	Sum of GTIs [s]
			ontime8	20064.950159788	Sum of GTIs [s]
			l1events	643179	Number of level 1 events

2.1.4 Events

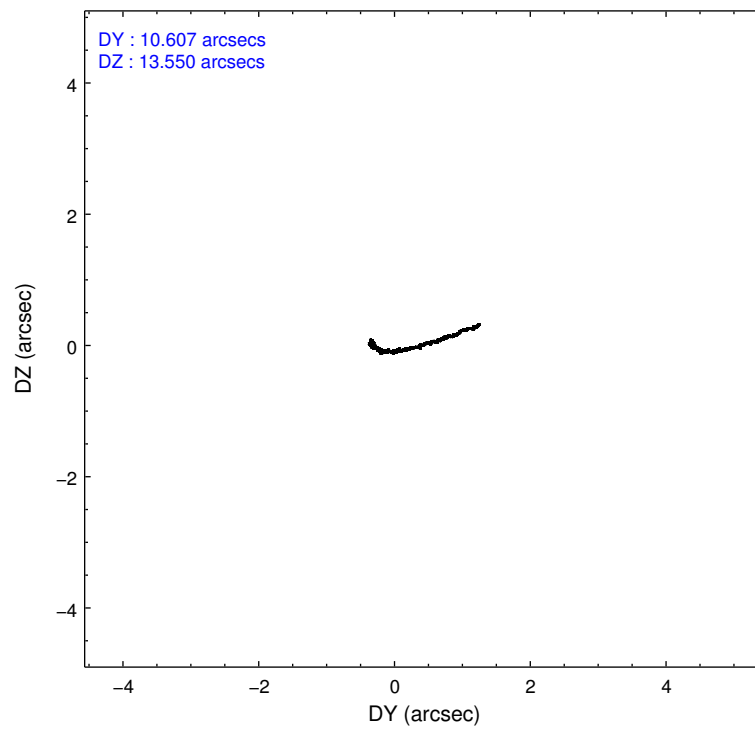
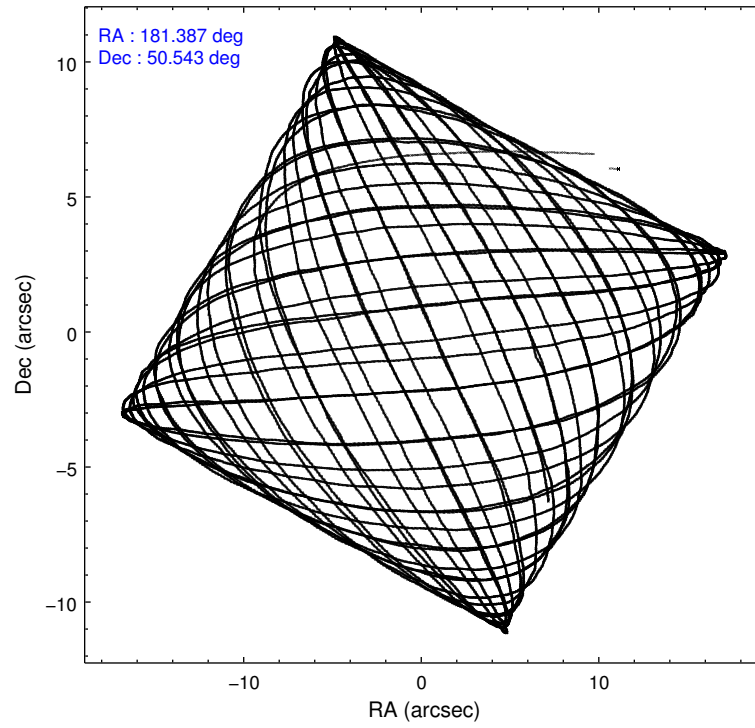
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	111002	109412	117276	151228	154261
rejected events	98433	97016	103280	84715	112608
rejected %	88%	88%	88%	56%	72%

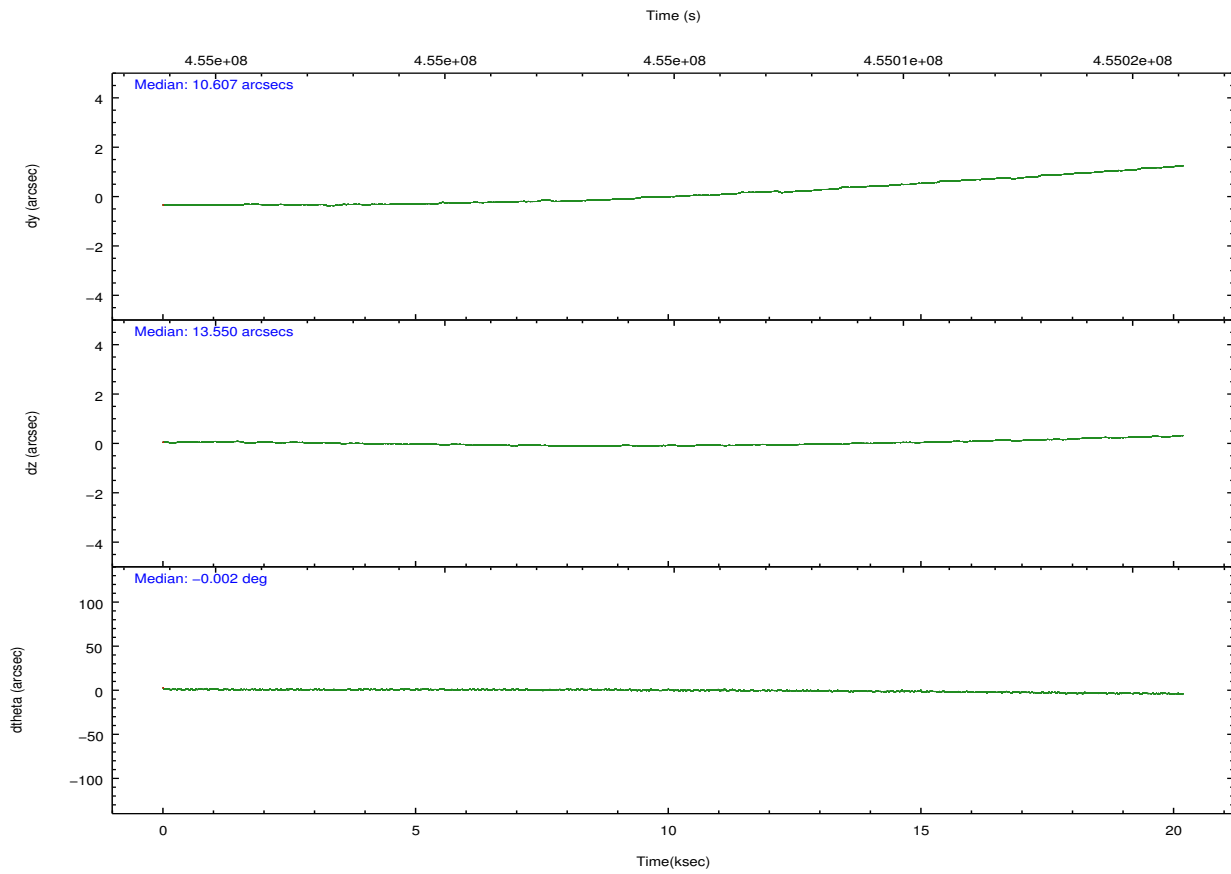
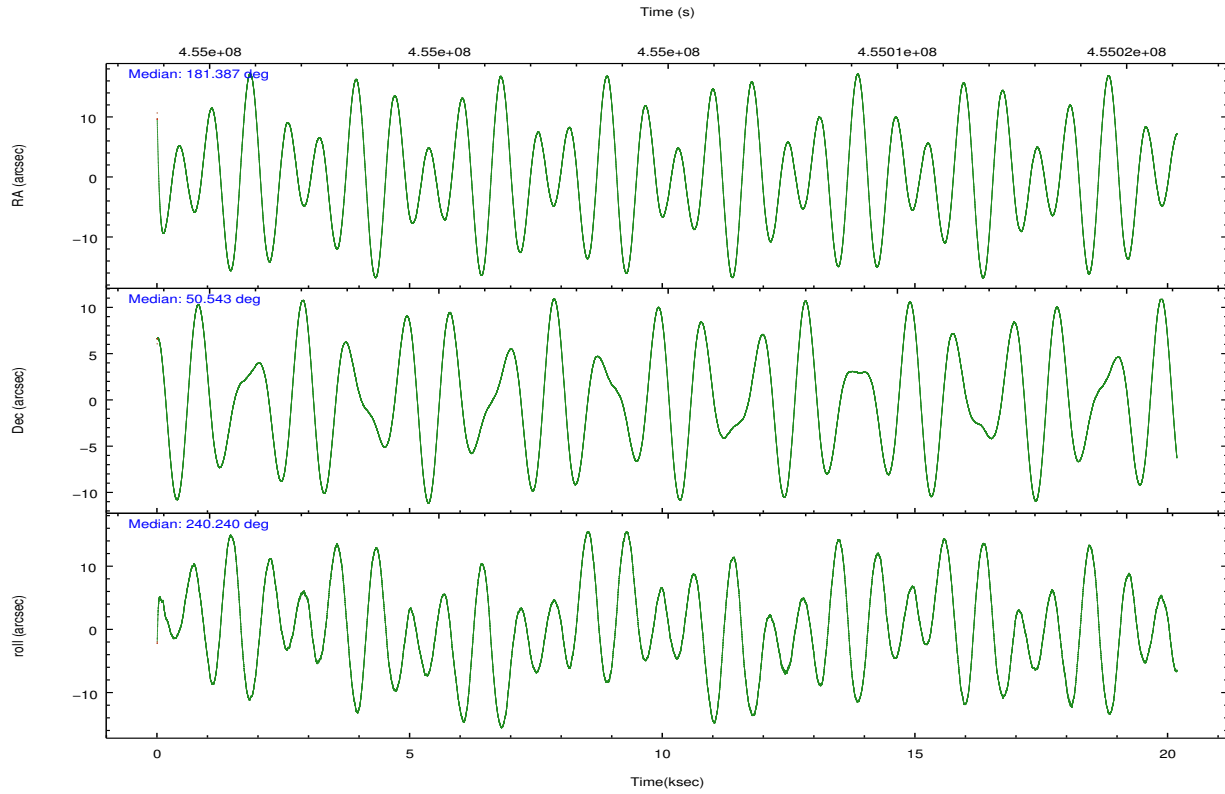
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	4444	4454	4692	6302	12248
	4%	4%	4%	4%	7%
grade 1 events	61	79	70	198	115
	0%	0%	0%	0%	0%
grade 2 events	3029	2725	3200	13655	9735
	2%	2%	2%	9%	6%
grade 3 events	1327	1339	1425	5788	4318
	1%	1%	1%	3%	2%
grade 4 events	1362	1354	1431	5776	4071
	1%	1%	1%	3%	2%
grade 5 events	4564	5674	5488	15625	8268
	4%	5%	4%	10%	5%
grade 6 events	2413	2528	3249	35017	11289
	2%	2%	2%	23%	7%
grade 7 events	93802	91259	97721	68867	104217
	84%	83%	83%	45%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	181.386026	181.3867922171571	Subarray requested	NONE	NONE
[deg] Pointing Dec	50.569819	50.54249751085094	Alternating exposures requested	N	N
[deg] Pointing Roll	240.091575	240.2476195765653	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	454995066.184000	454993846.66845			
Observation start date	2012-06-02T03:30:00	2012-06-02T03:10:46			
[s] Observation end time (MET)	455015066.184000	455015907.23213			
Observation end date	2012-06-02T09:03:20	2012-06-02T09:18:27			
Read mode	TIMED	TIMED			

2.3 Aspect



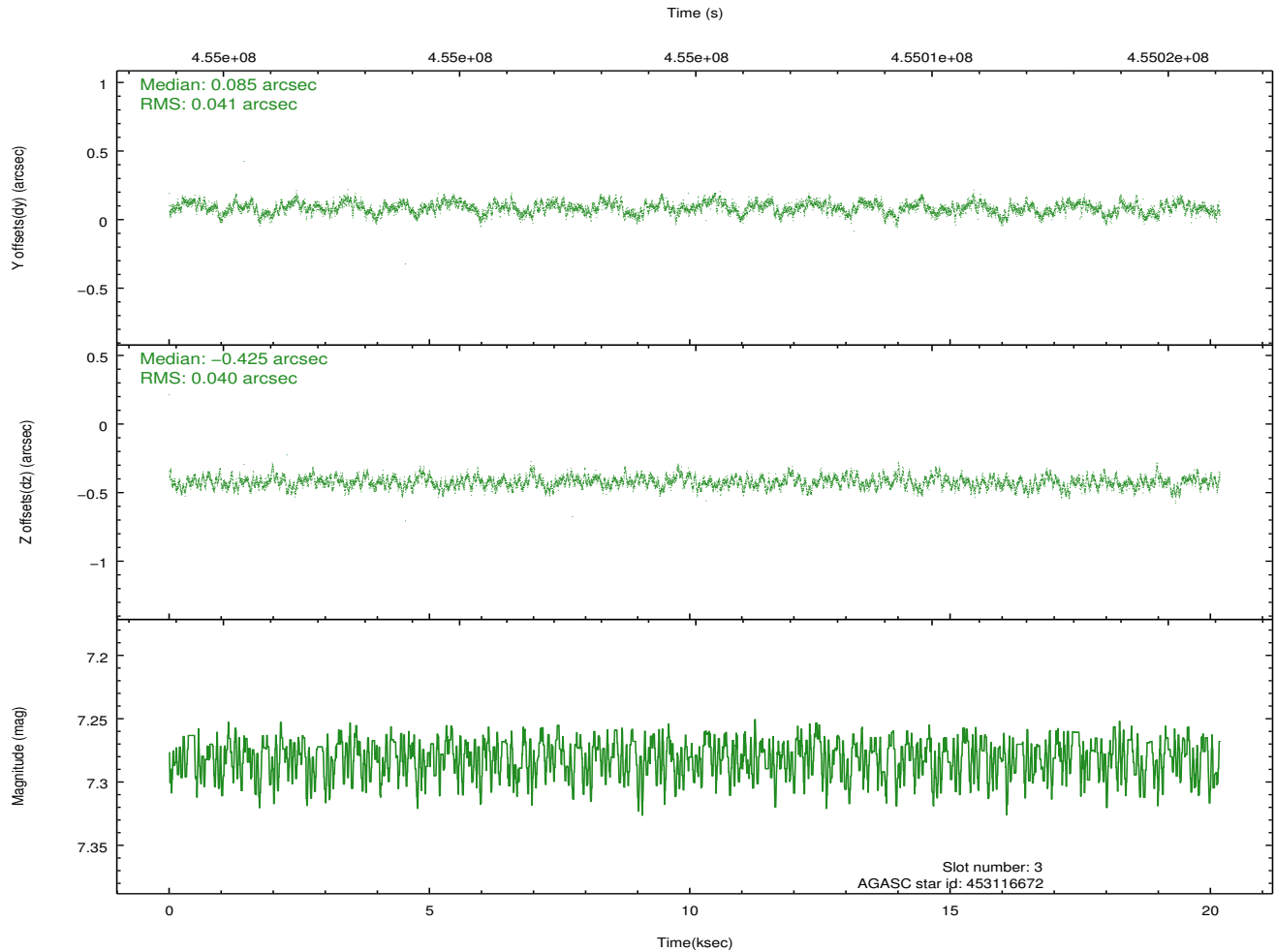
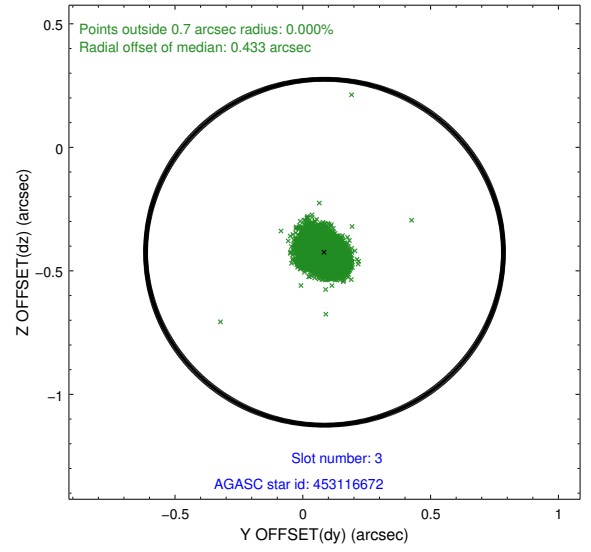
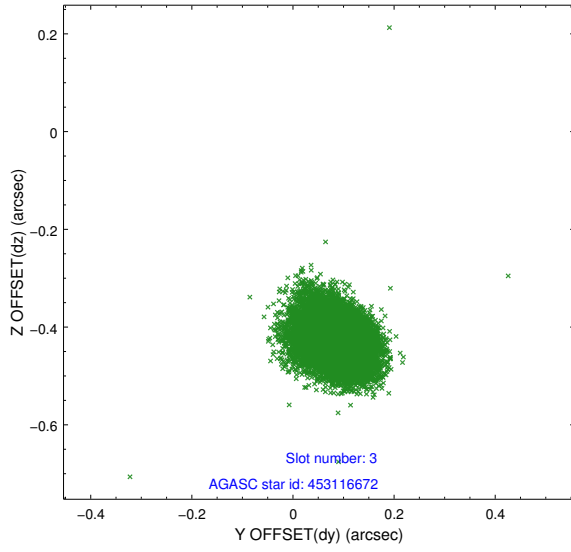


Slot Statistics

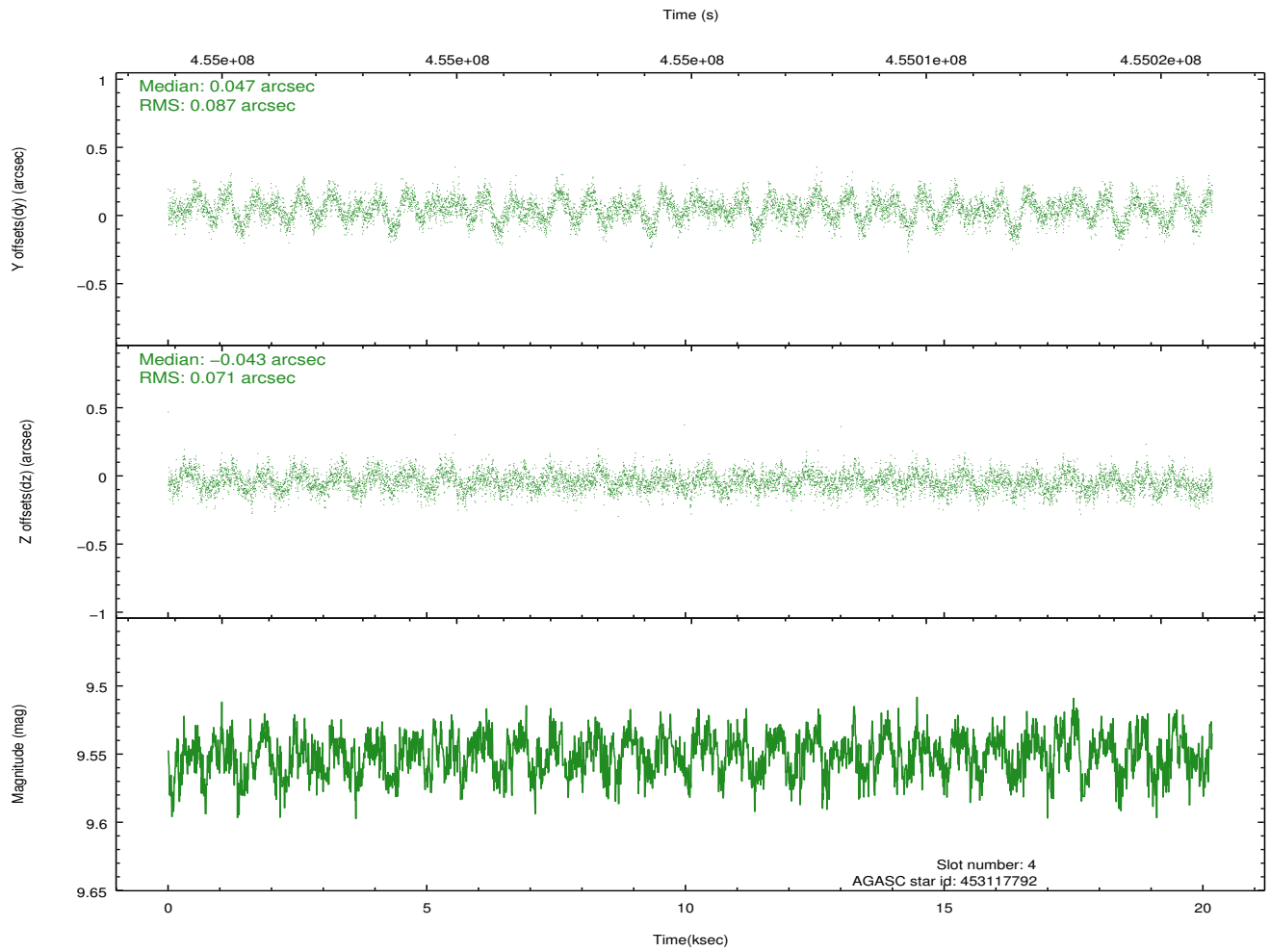
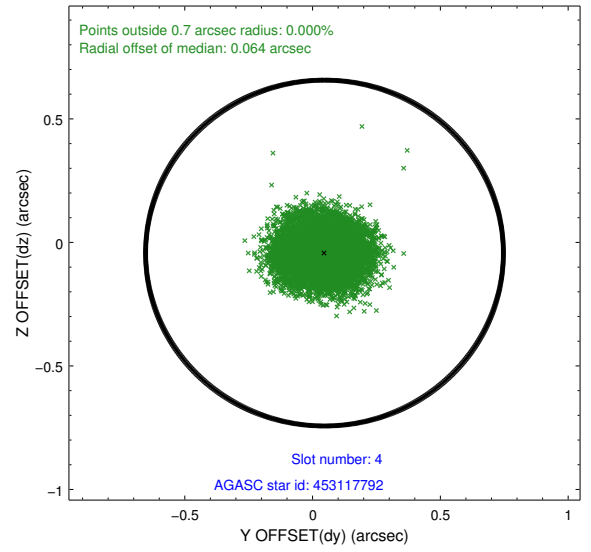
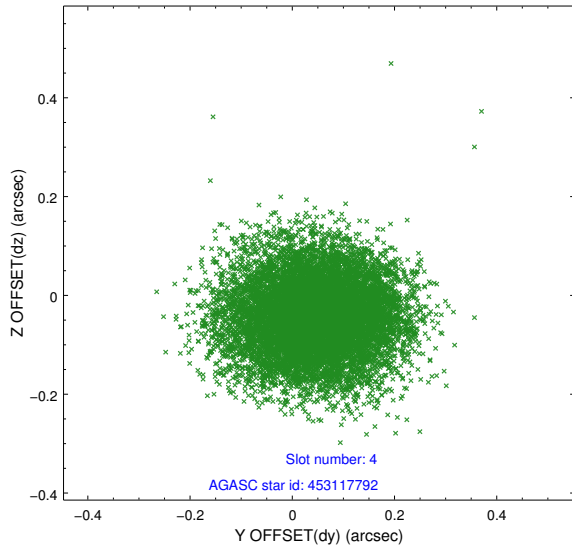
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.86	4923	-0.098	-0.062	0.011	0.022	0.000000	0.000000	-763.76	-1734.95
1	FID	ACIS-S-4	6.95	4923	0.124	0.043	0.010	0.017	0.000000	0.000000	2149.70	173.37
2	FID	ACIS-S-6	7.09	4923	-0.055	0.026	0.011	0.019	0.000000	0.000000	398.56	811.00
3	GUIDE	453116672	7.28	9844	0.085	-0.425	0.061	0.099	181.249284	50.283723	1049.80	240.69
4	GUIDE	453117792	9.55	9820	0.047	-0.043	0.121	0.192	181.128881	50.237233	1332.90	83.60
5	GUIDE	453119360	9.22	9766	-0.042	0.025	0.119	0.182	181.253878	51.244887	-1957.33	-1470.08
6	GUIDE	453120944	9.52	9807	-0.190	0.244	0.120	0.194	182.217047	50.418441	-486.66	1918.90
7	GUIDE	453120872	9.56	9801	0.096	0.202	0.110	0.179	180.306453	50.720520	741.76	-2411.49

2.4 Star Slots

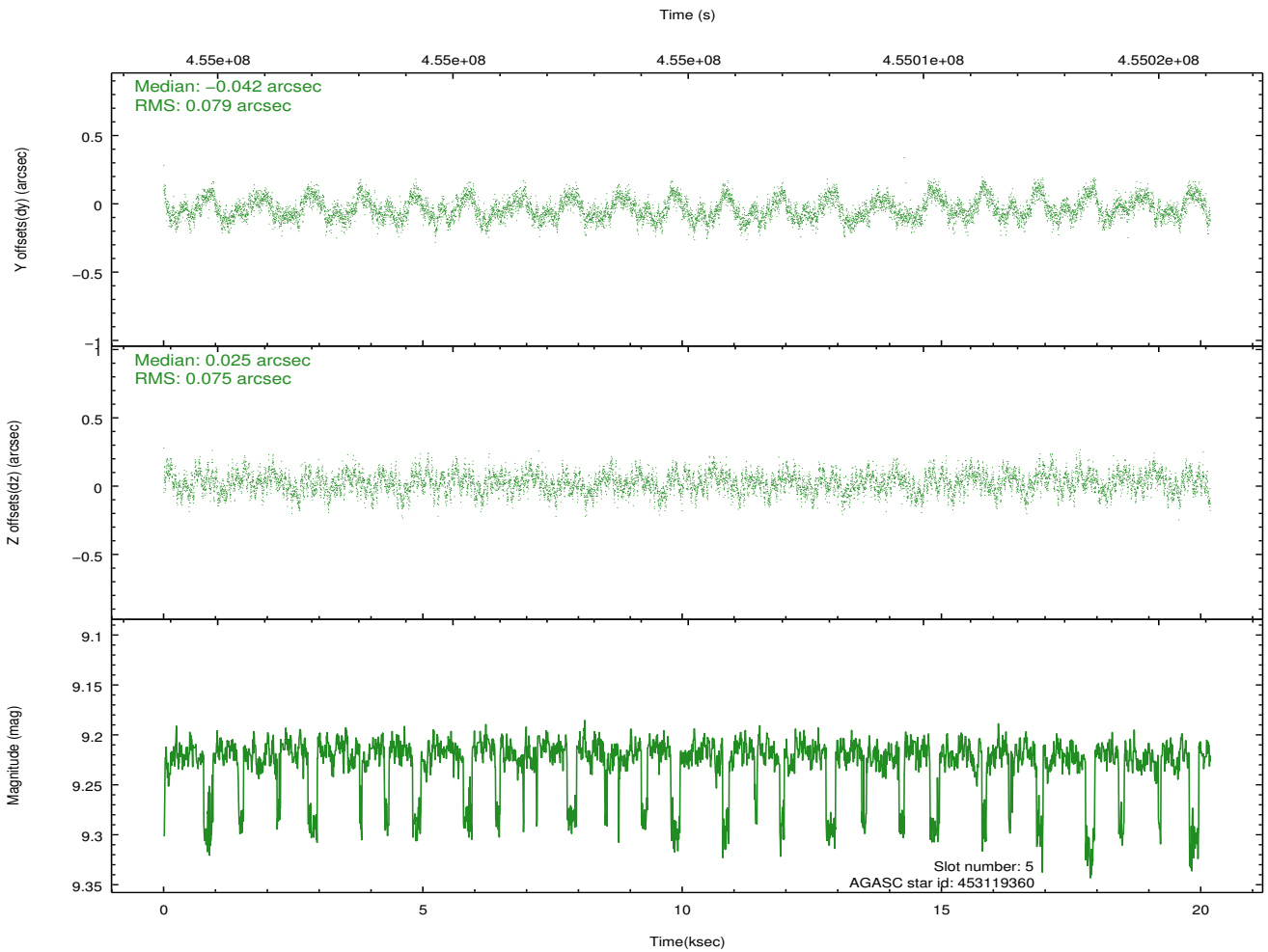
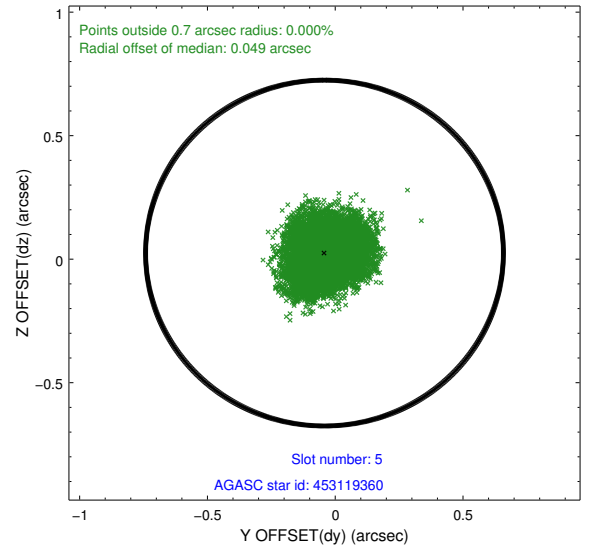
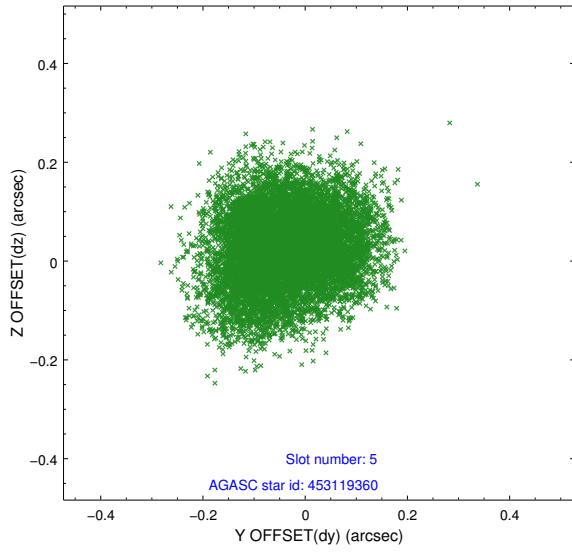
2.4.1 Slot 3



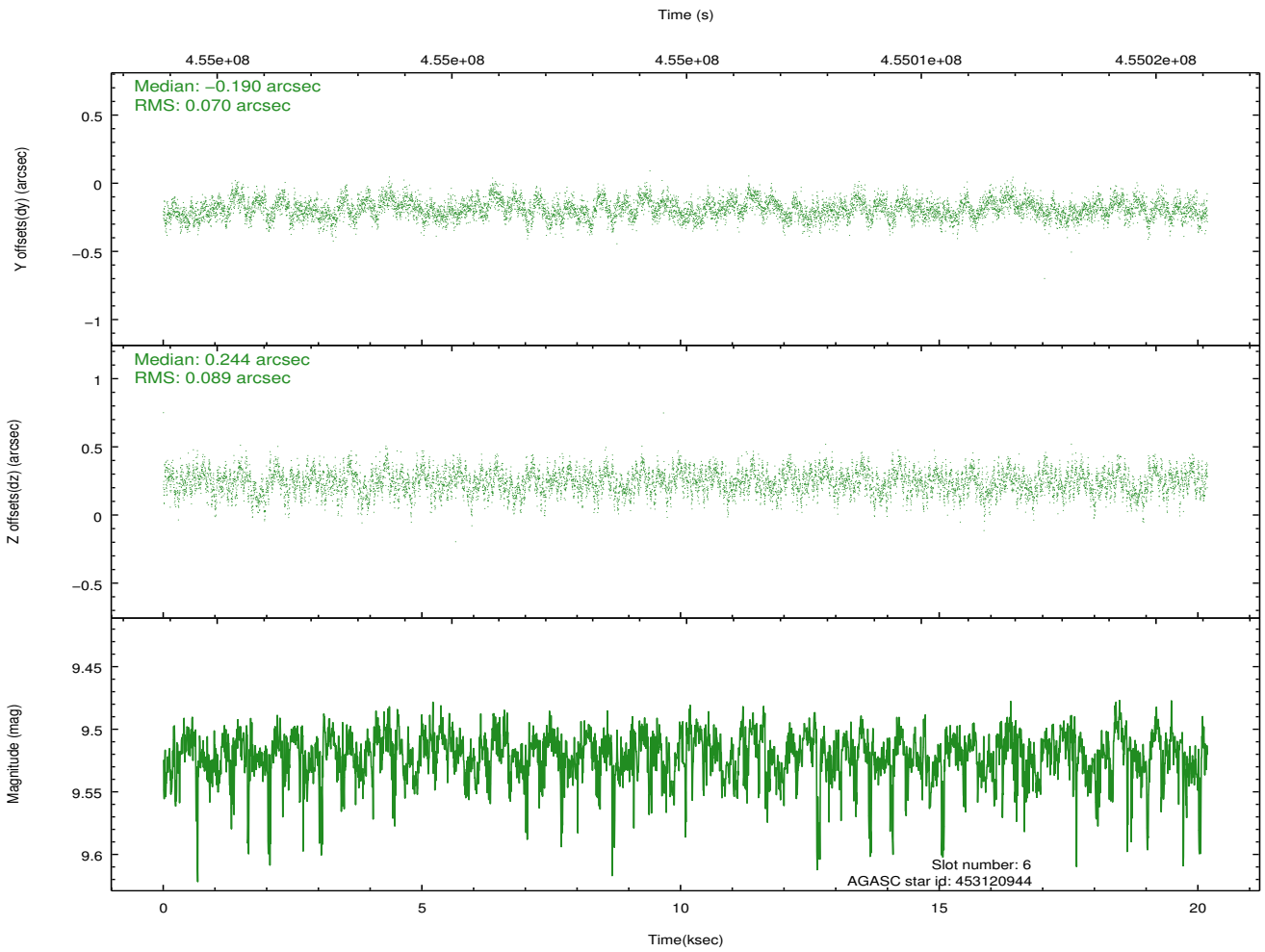
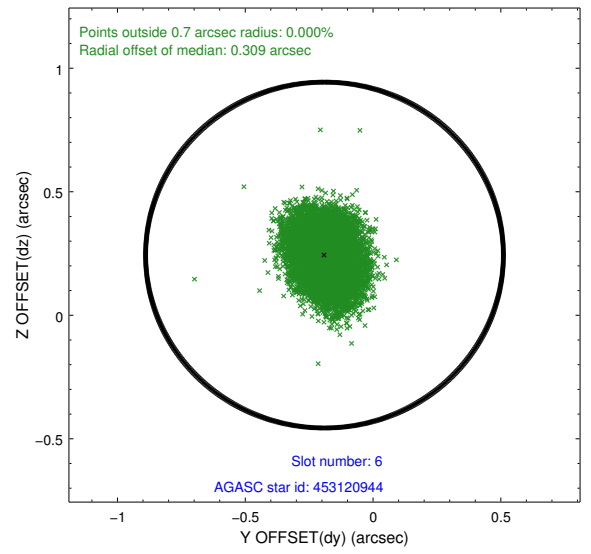
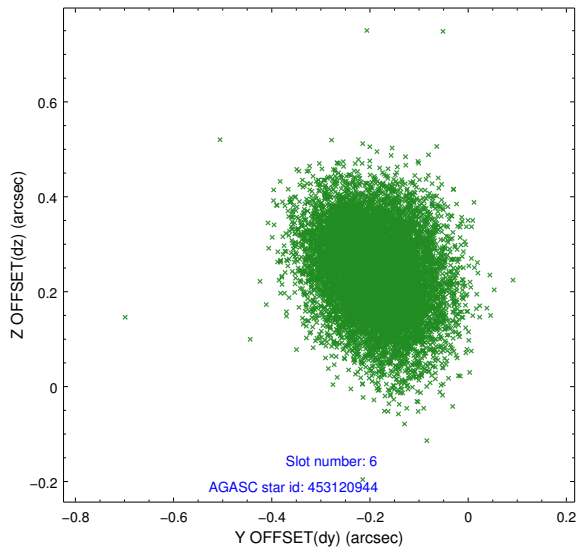
2.4.2 Slot 4



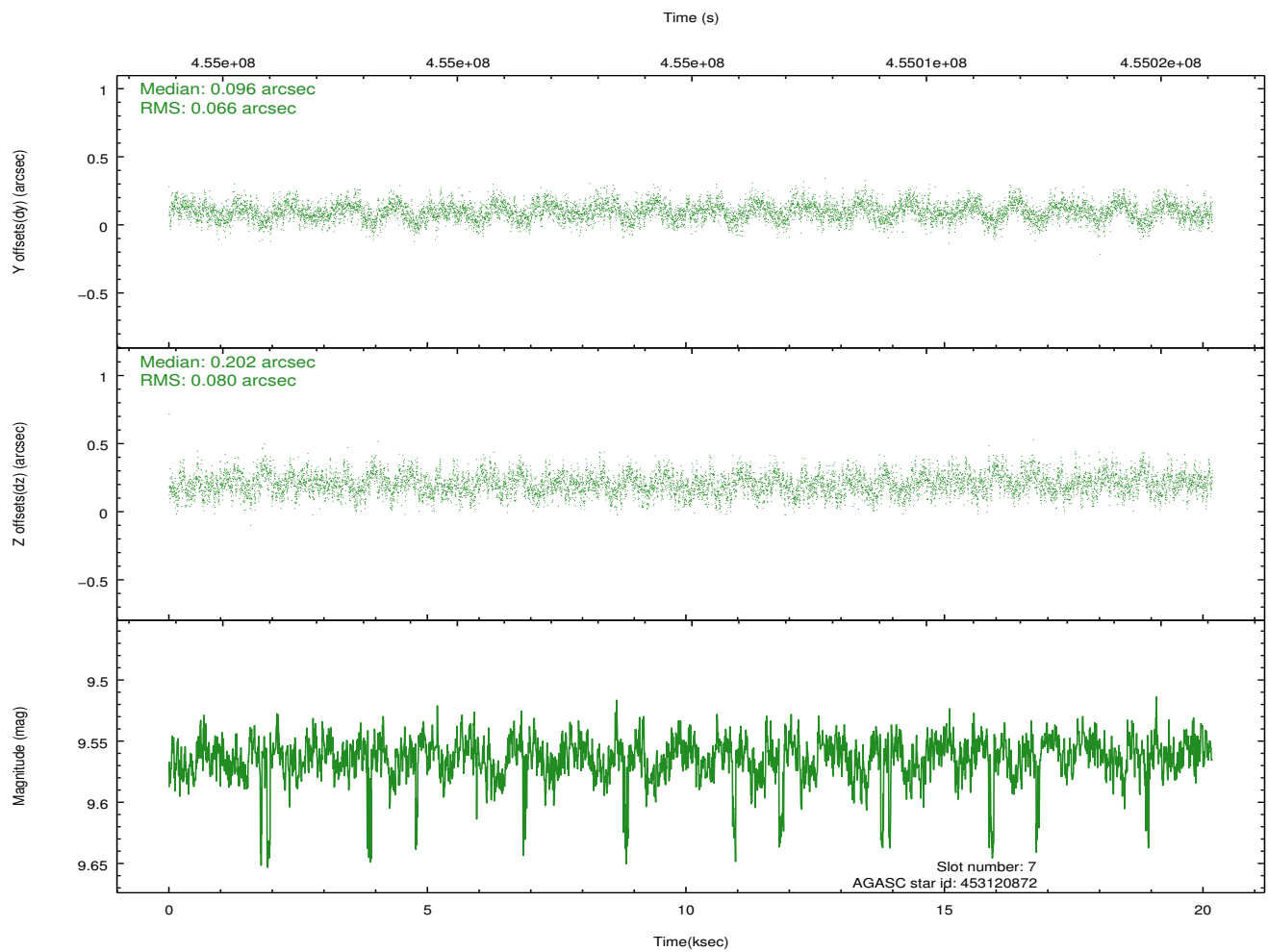
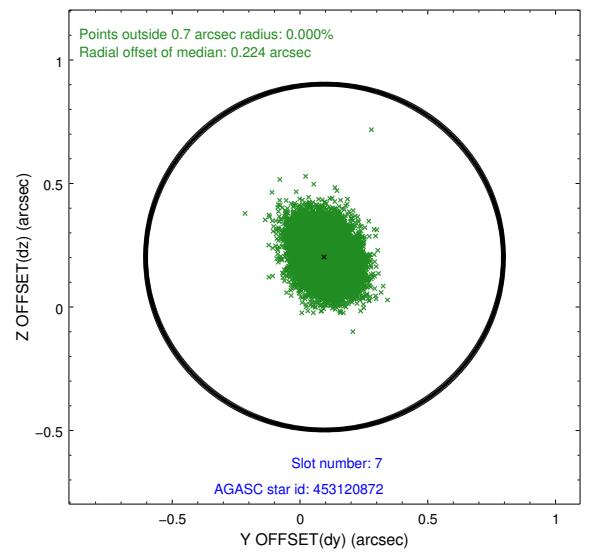
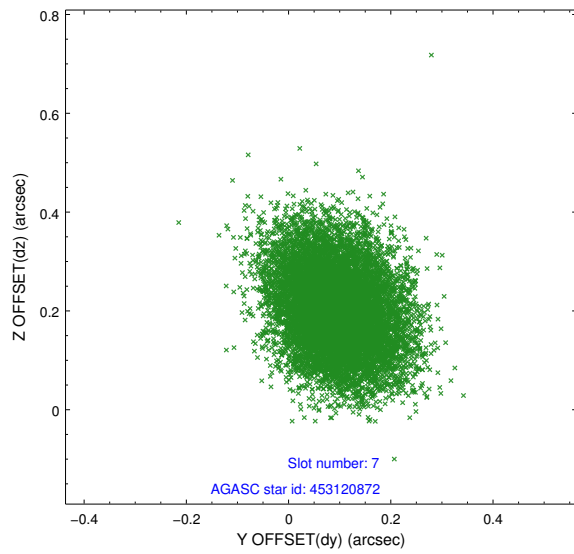
2.4.3 Slot 5



2.4.4 Slot 6

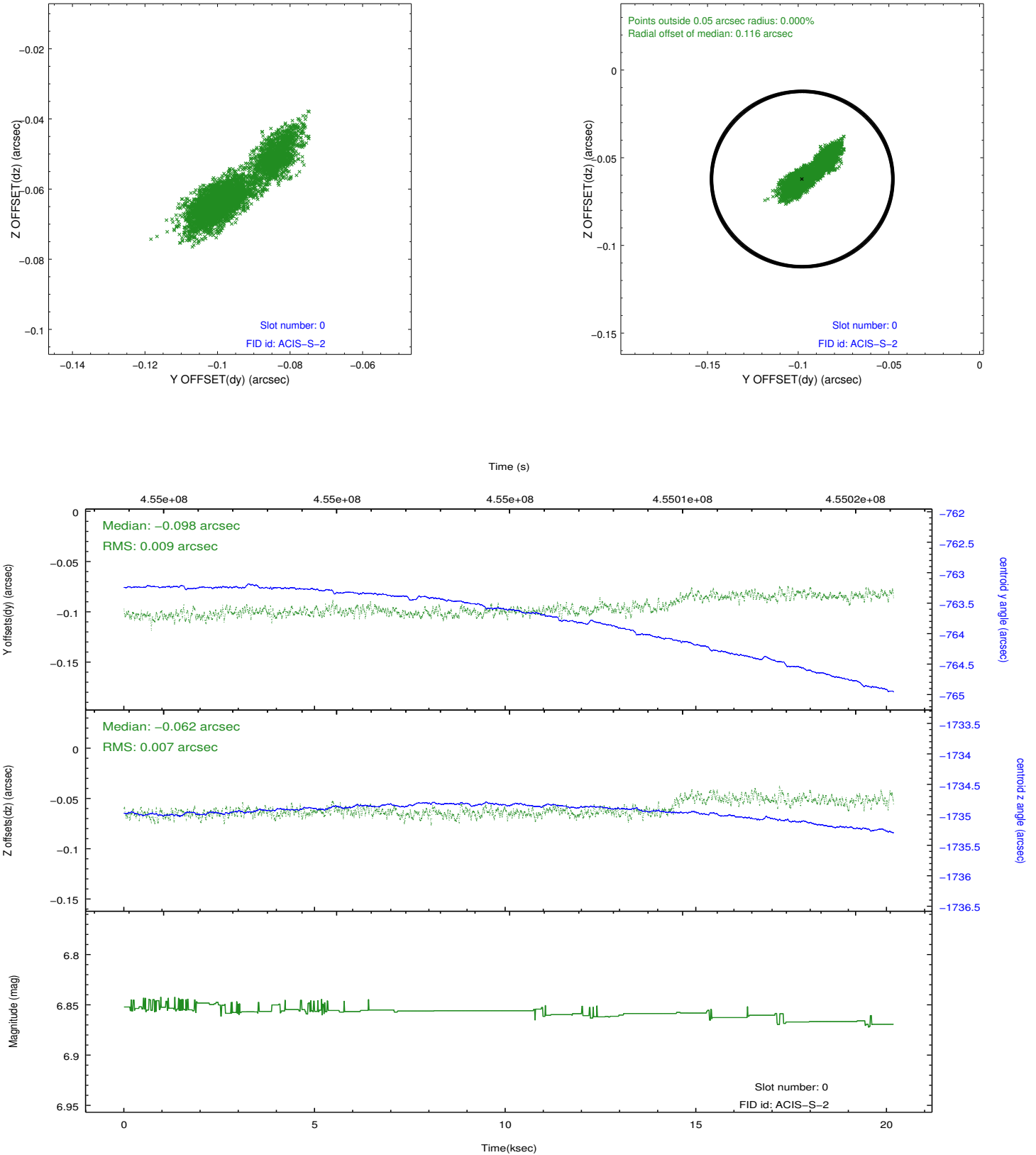


2.4.5 Slot 7

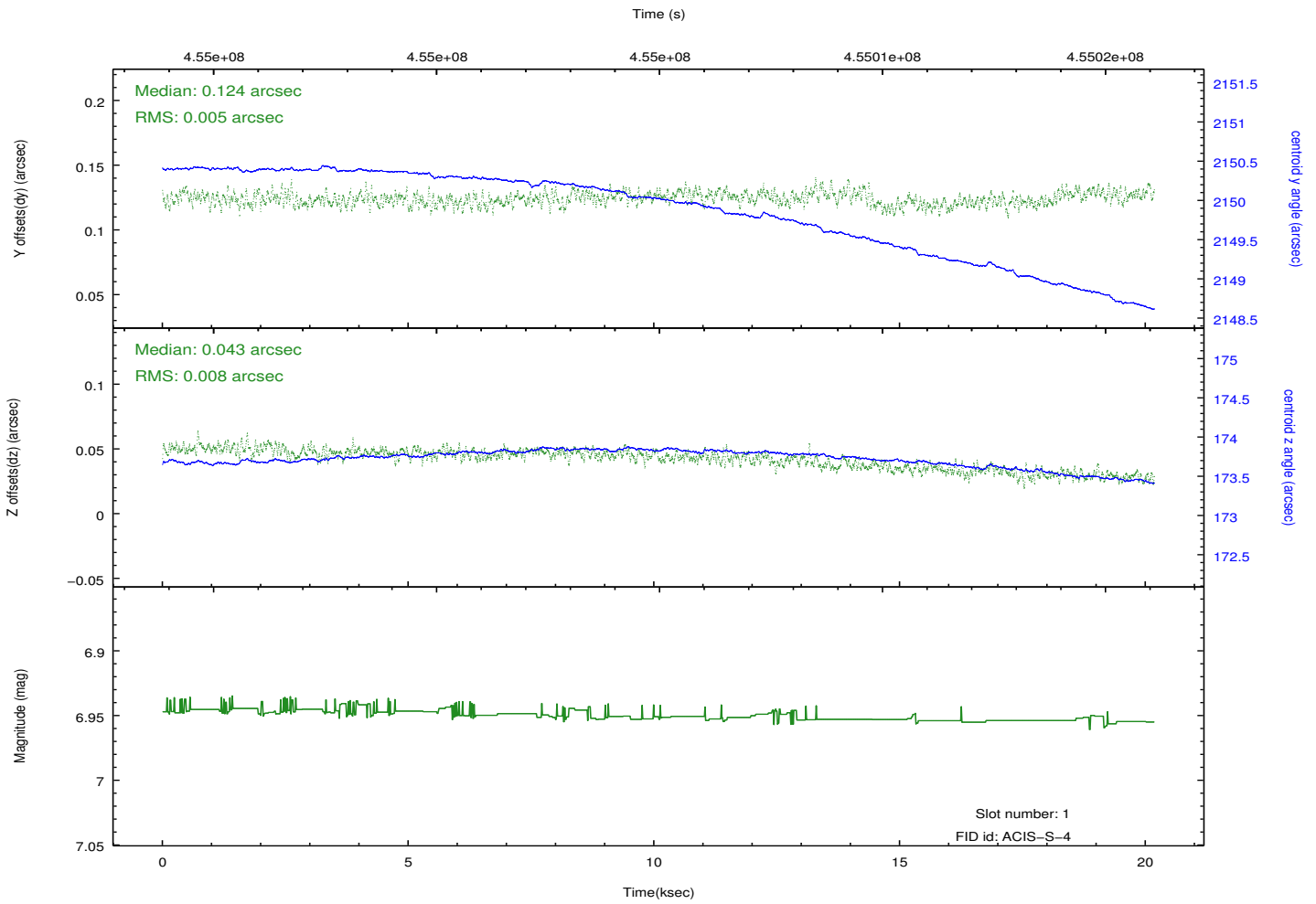
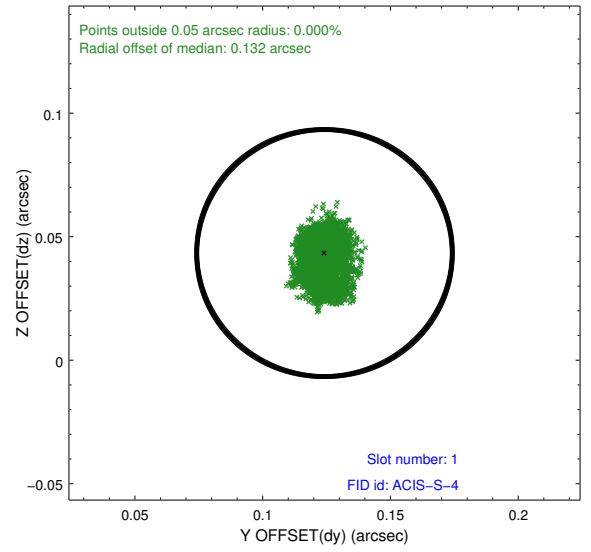
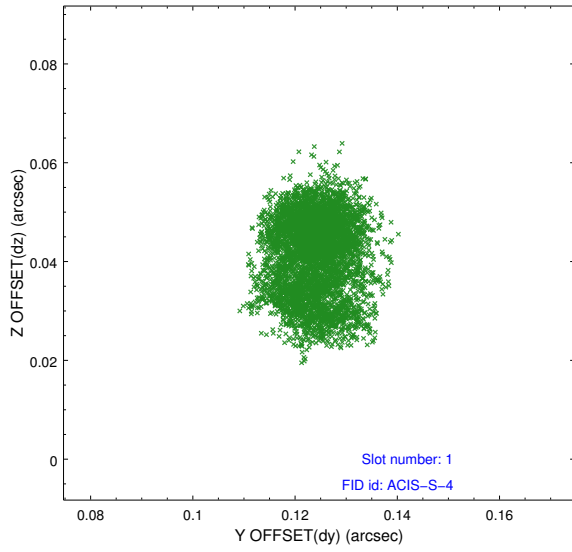


2.5 FID Slots

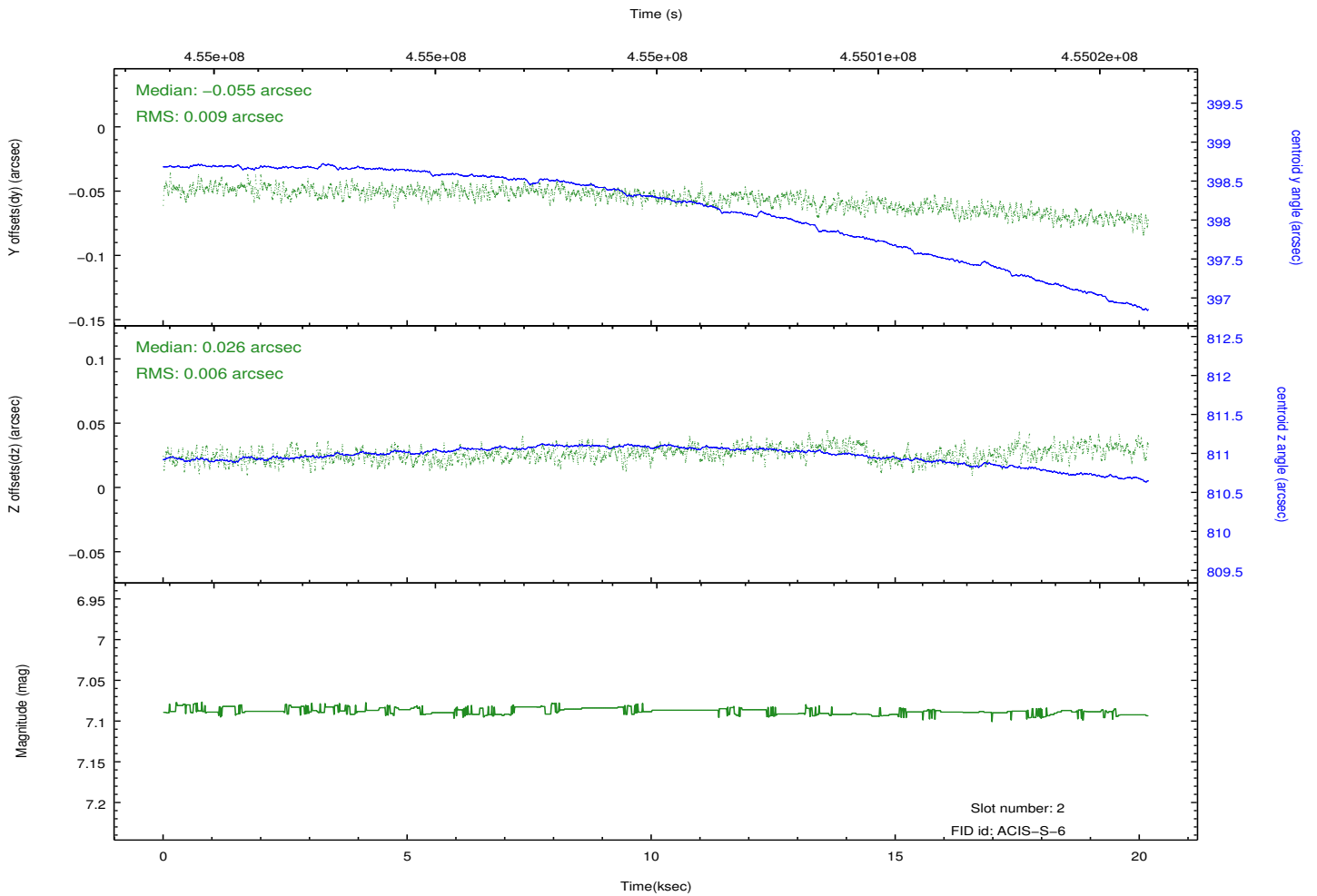
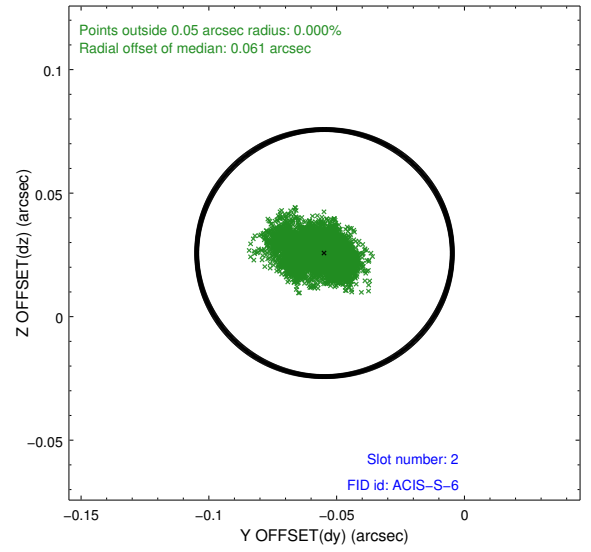
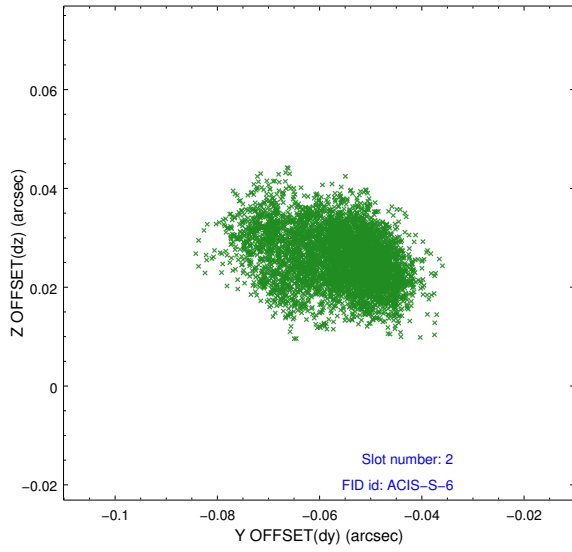
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.065073279798

A.2 Comments