

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20890 - L2 Version 1
Chandra X-Ray Center

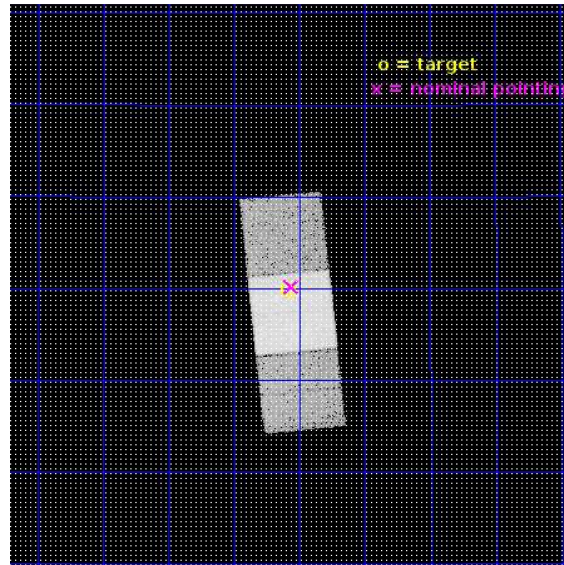
L2 Processing Date : Dec 24 2017

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1 Front

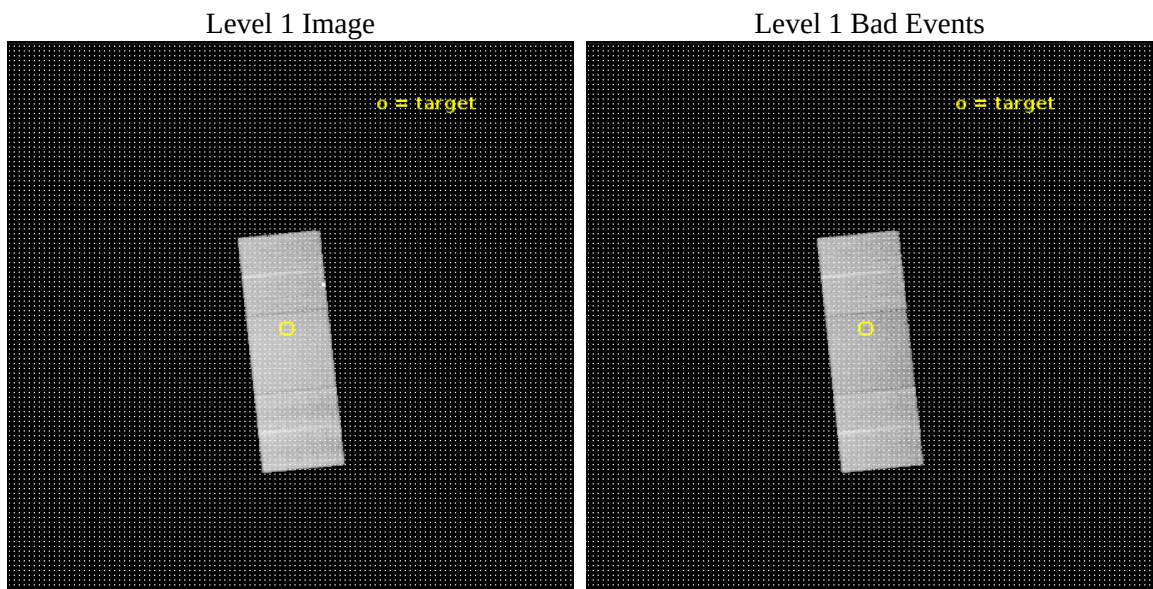
seq_num	703344	Sequence number
obs_id	20890	Observation id
title	The interactions of a `switching off' radio galaxy at crucial radio power	Proposal title
observer	Diana Worrall	Principal investigator
object	3C 192	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	121.395833	Observer's specified target RA [deg]
dec_targ	24.164	Observer's specified target Dec [deg]
ra_nom	121.39081293126	Nominal RA [deg]
dec_nom	24.170057556756	Nominal Dec [deg]
roll_nom	84.158695799163	Nominal Roll [deg]
revision	1	Processing version of data
ontime	21411.700164795	Sum of GTIs [s]
livetime	21131.940539078	Livetime [s]
ontime6	21411.700164795	Sum of GTIs [s]
ontime7	21411.700164795	Sum of GTIs [s]
ontime8	21411.700164795	Sum of GTIs [s]
l2events	119511	Number of level 2 events



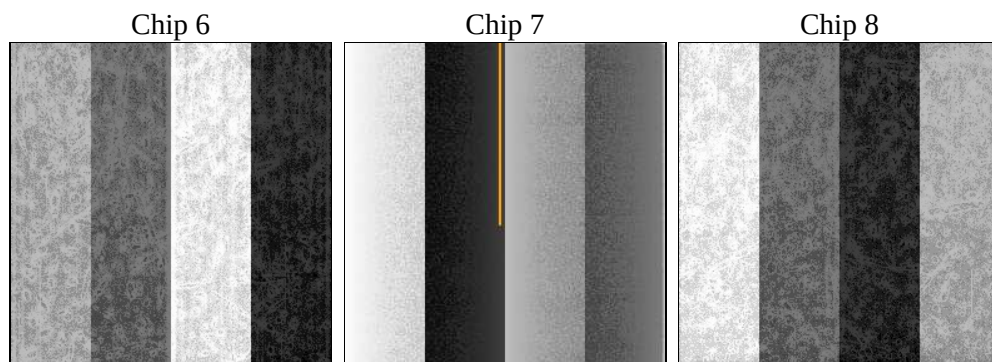
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21300.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	21411.700164795	Sum of GTIs [s]
caldsver	4.7.7	 	ontime6	21411.700164795	Sum of GTIs [s]
date	2017-12-24T14:47:04	Date and time of file creation	ontime7	21411.700164795	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	21411.700164795	Sum of GTIs [s]
			l1events	579195	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	165161	202755	211279
rejected events	144661	114490	155815
rejected %	87%	56%	73%

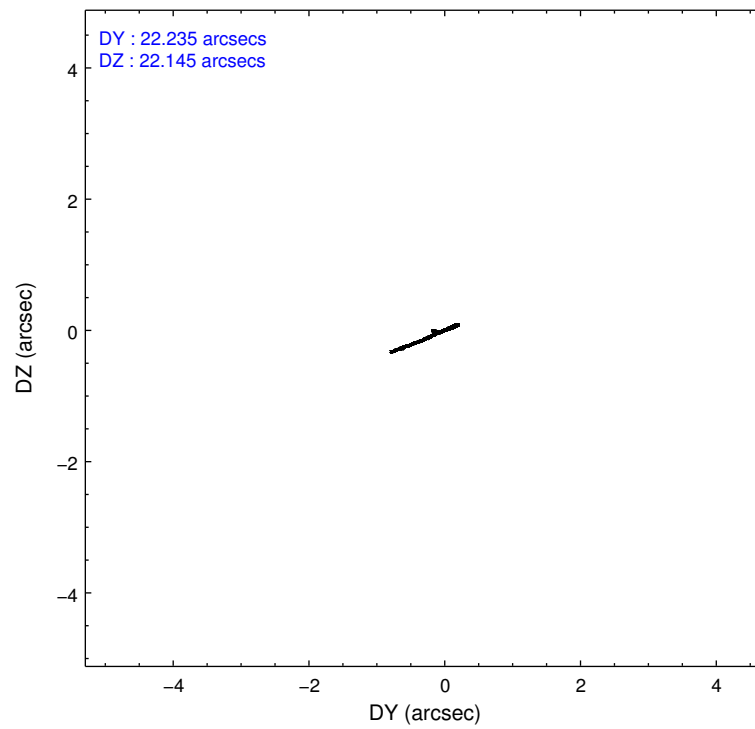
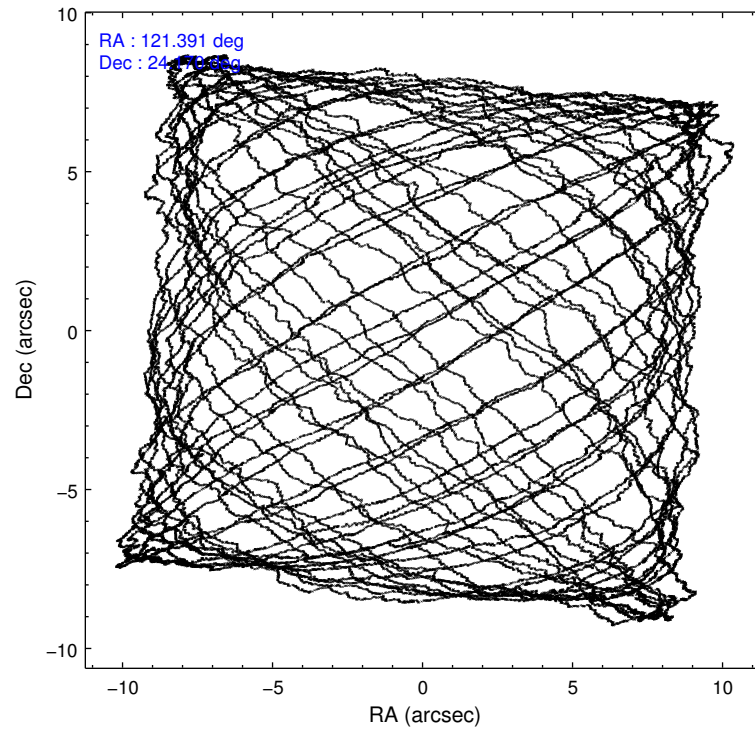
	ccd 6	ccd 7	ccd 8
grade 0 events	5821	7414	15233
	3%	3%	7%
grade 1 events	77	290	153
	0%	0%	0%
grade 2 events	6964	18486	13571
	4%	9%	6%
grade 3 events	1715	6950	5969
	1%	3%	2%
grade 4 events	1743	7012	5401
	1%	3%	2%
grade 5 events	7355	20374	11311
	4%	10%	5%
grade 6 events	4264	48430	15294
	2%	23%	7%
grade 7 events	137222	93799	144347
	83%	46%	68%

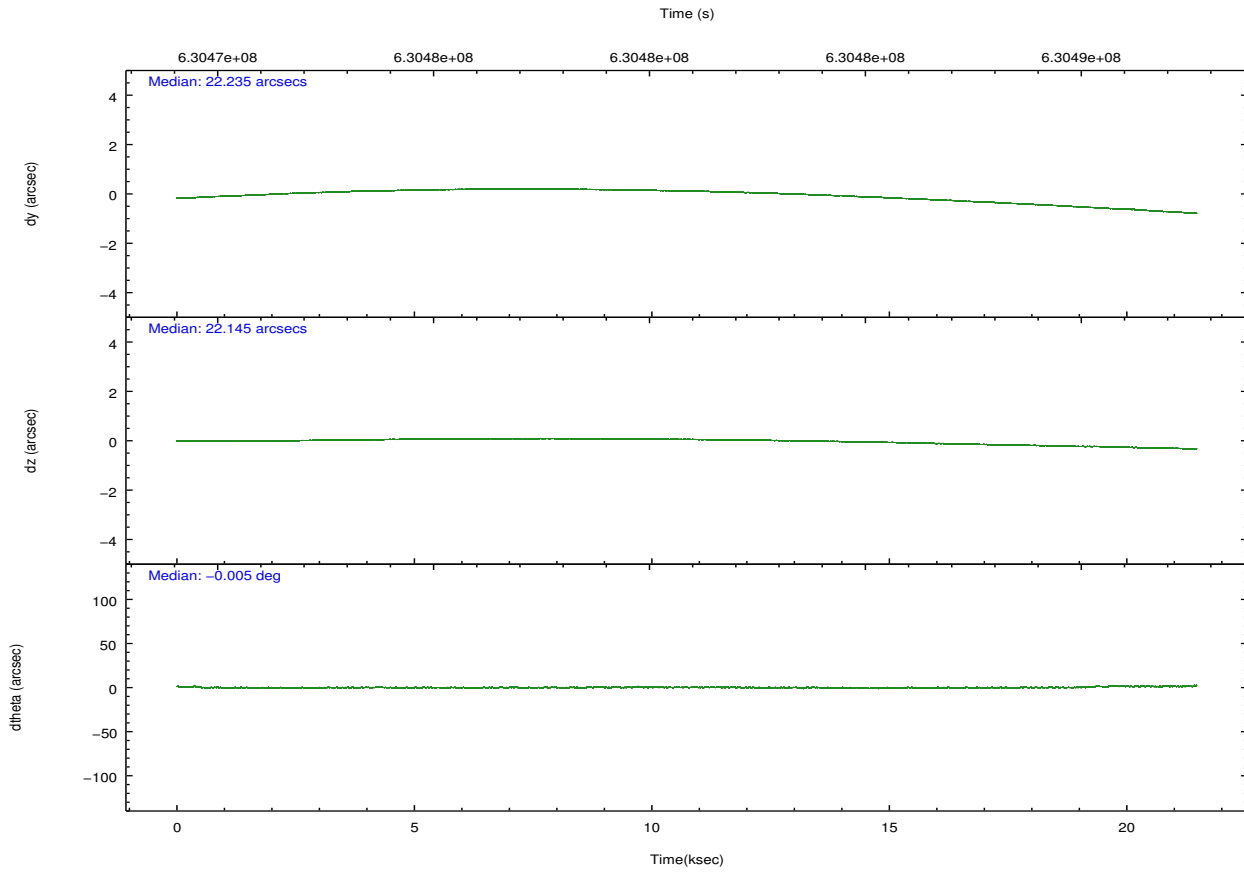
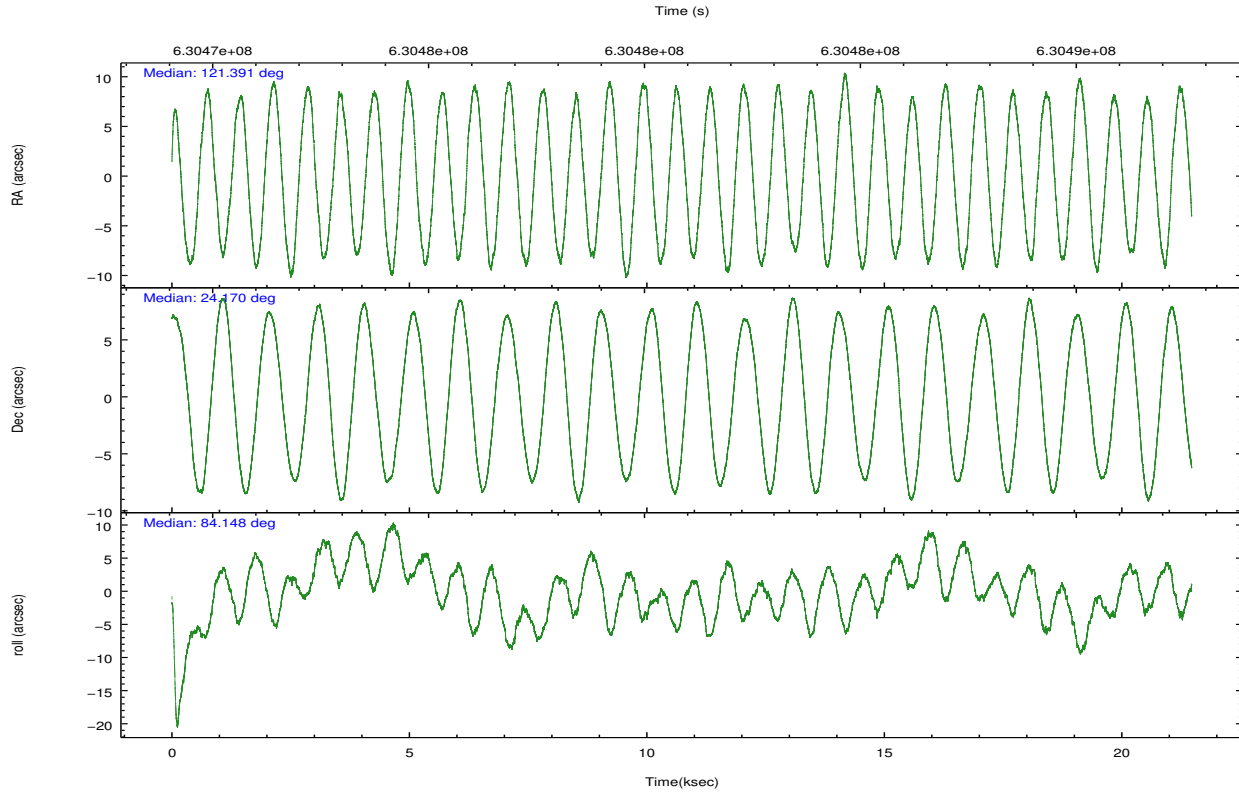
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	121.403478	121.3908129312556
[deg] Pointing Dec	24.145157	24.17005755675583
[deg] Pointing Roll	83.996876	84.15869579916276
[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)	630470324.184000	630468649.19936
Observation start date	2017-12-24T02:37:35	2017-12-24T02:10:49
[s] Observation end time (MET)	630491624.184000	630492115.0382299
Observation end date	2017-12-24T08:32:35	2017-12-24T08:41:55
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	O1	N
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	O2	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



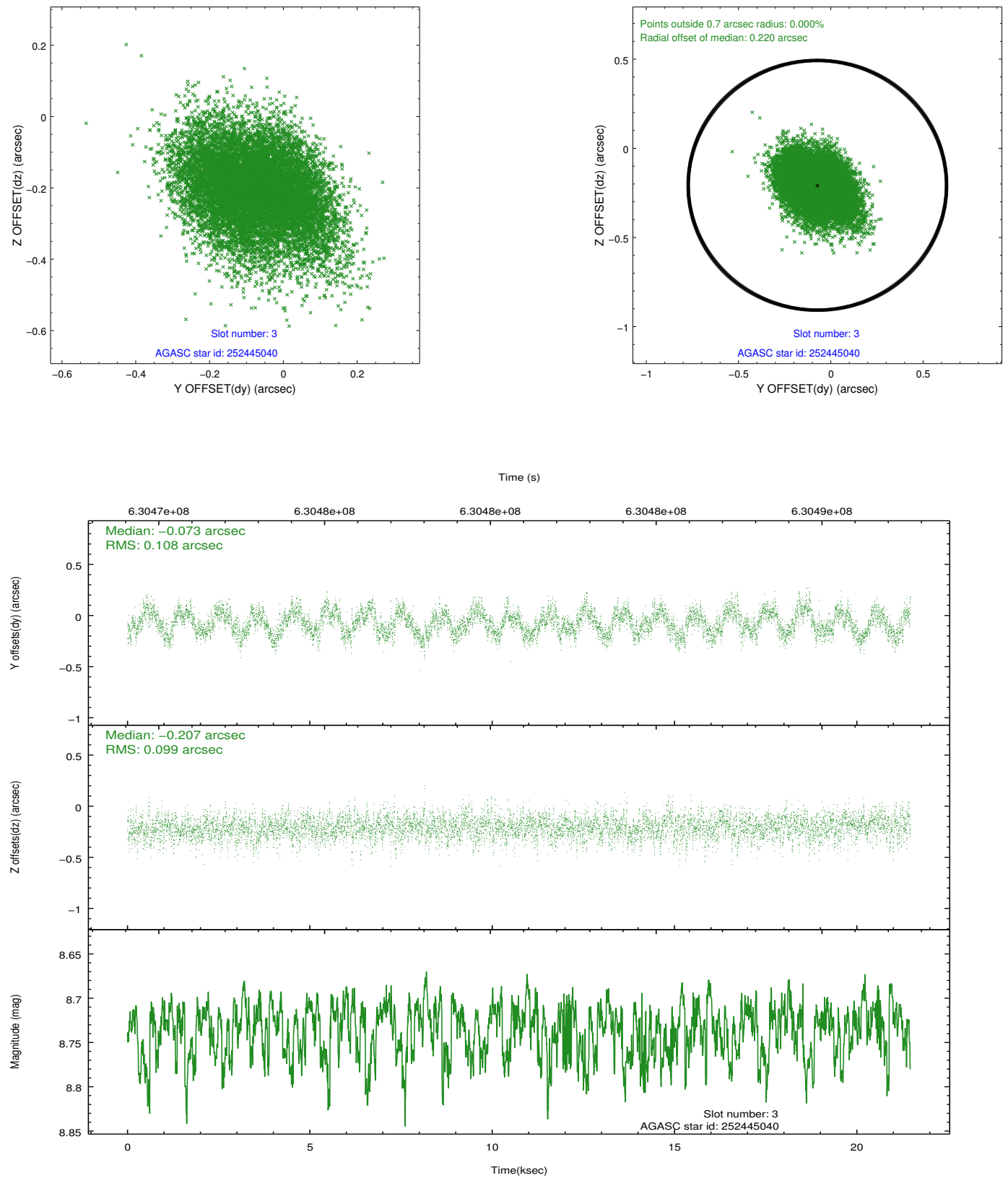


Slot Statistics

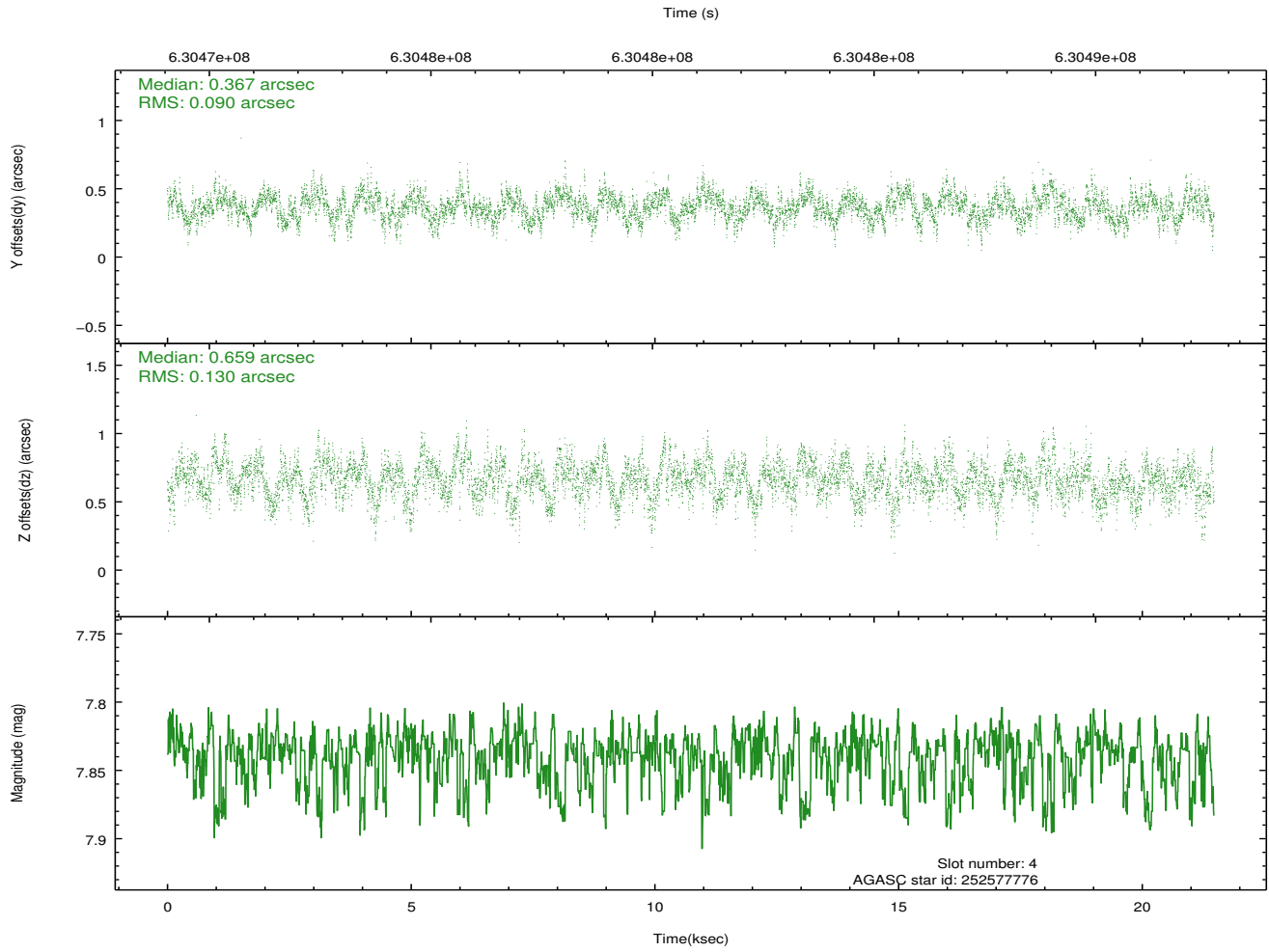
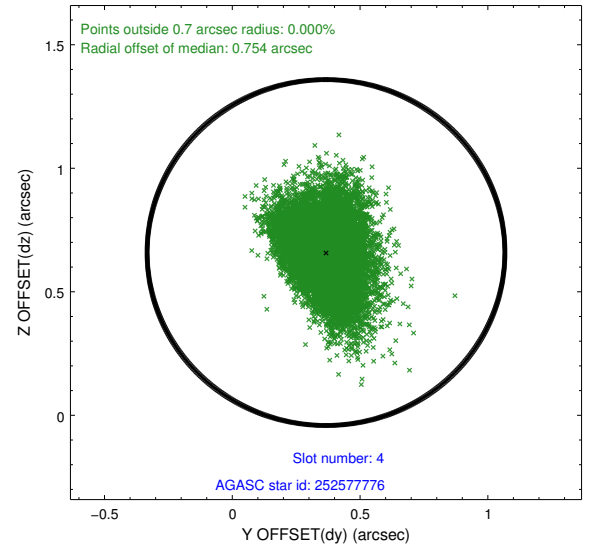
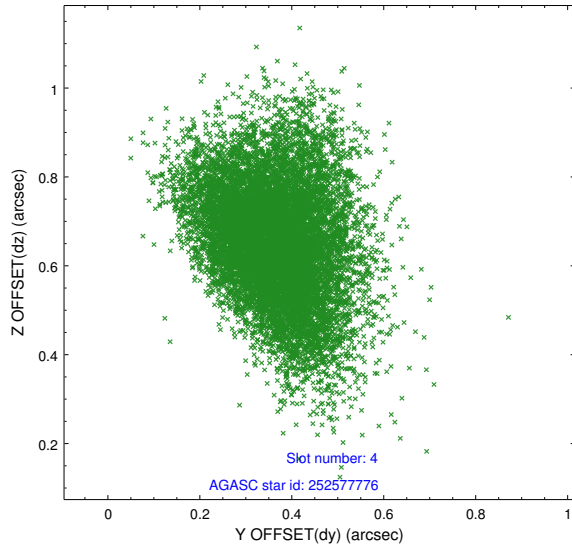
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.05	5237	-0.236	-0.175	0.009	0.016	0.000000	0.000000	-775.52	-1743.86
1	FID		ACIS-S-4	7.16	5237	0.567	0.160	0.009	0.018	0.000000	0.000000	2138.45	164.82
2	FID		ACIS-S-5	7.17	5238	-0.362	0.023	0.013	0.020	0.000000	0.000000	-1828.31	158.49
3	GUIDE	used	252445040	8.73	10465	-0.073	-0.207	0.156	0.250	120.948183	24.372625	660.67	1570.48
4	GUIDE	used	252577776	7.84	10473	0.367	0.659	0.164	0.278	121.963441	24.018102	-258.03	-1878.42
5	GUIDE	used	252978608	6.87	10475	-0.165	-0.415	0.125	0.212	121.037358	24.508140	1175.52	1329.22
6	GUIDE	used	253108144	8.72	10464	-0.199	0.046	0.143	0.250	121.921909	24.738762	2306.25	-1461.58
7	GUIDE	used	253108456	8.81	10416	0.071	-0.074	0.190	0.330	122.025353	24.715177	2259.05	-1807.44

2.4 Star Slots

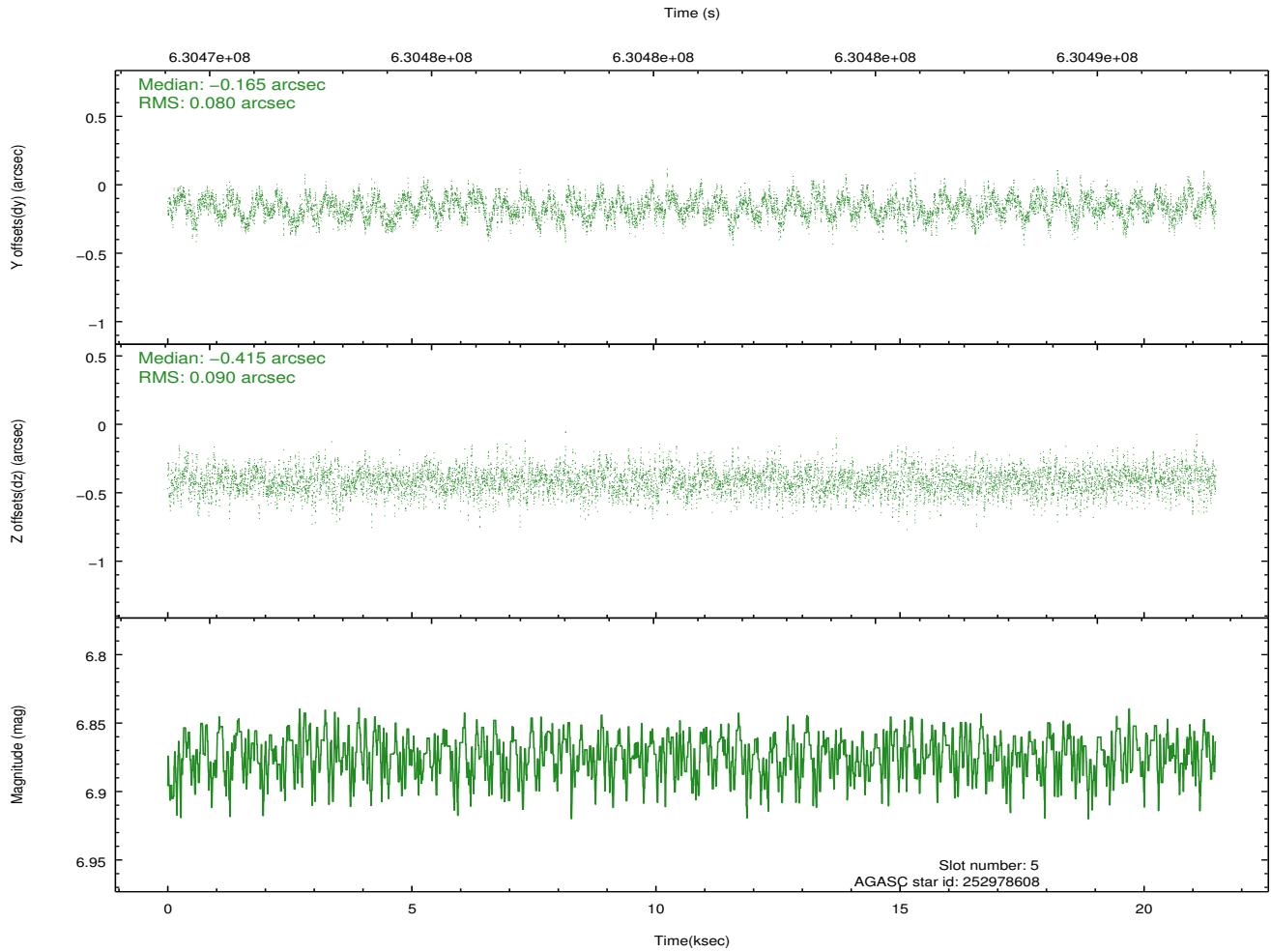
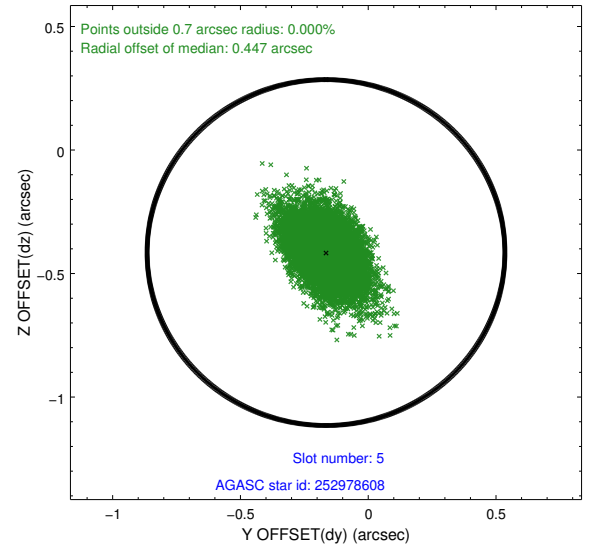
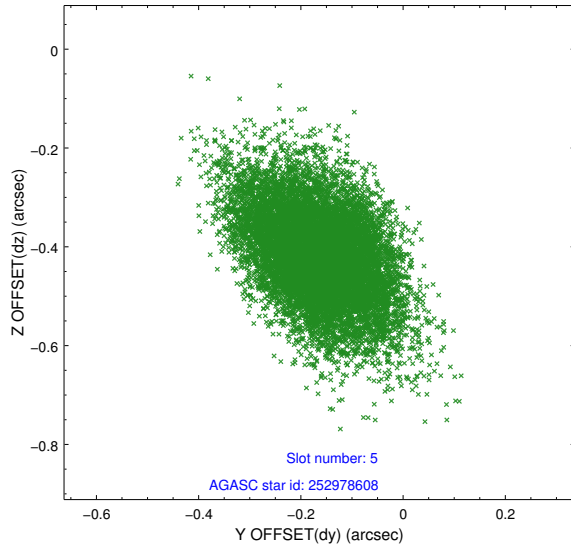
2.4.1 Slot 3



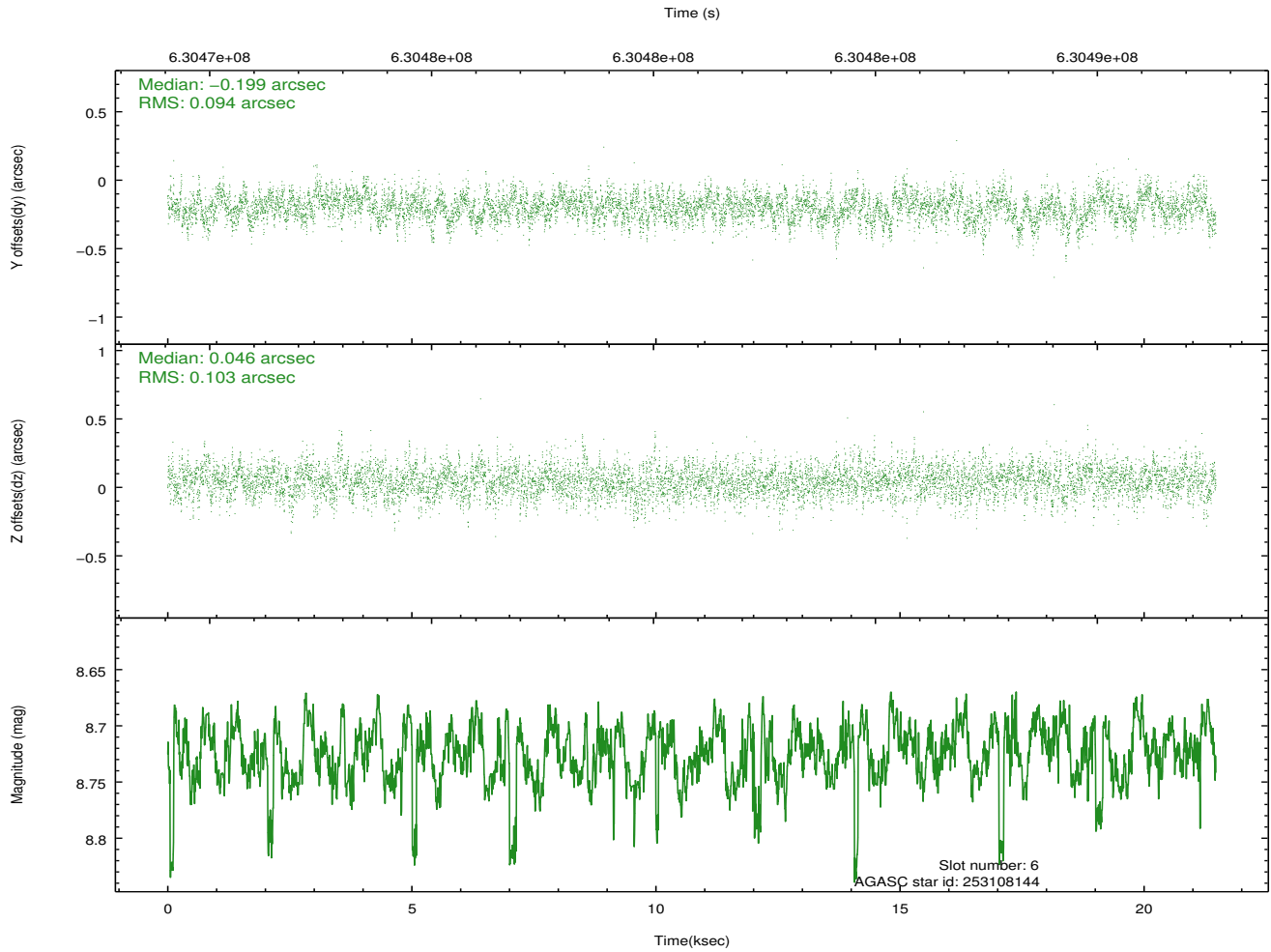
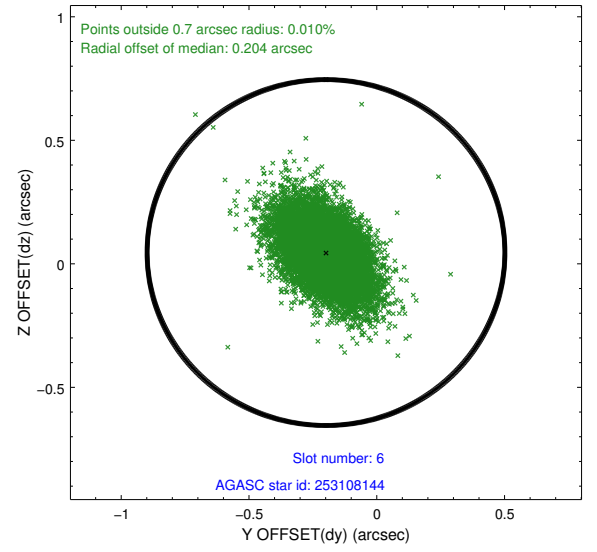
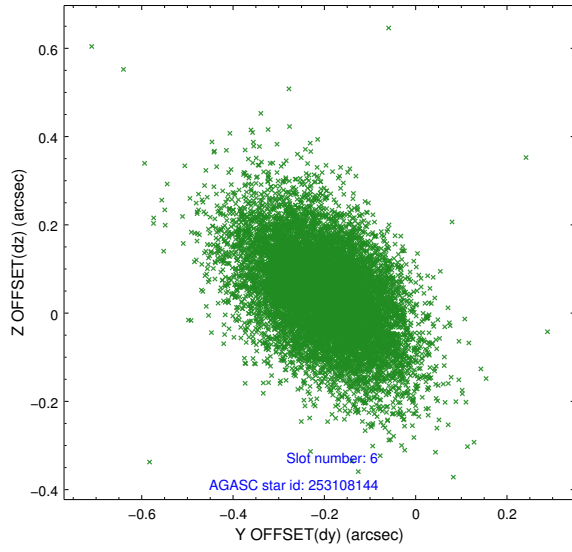
2.4.2 Slot 4



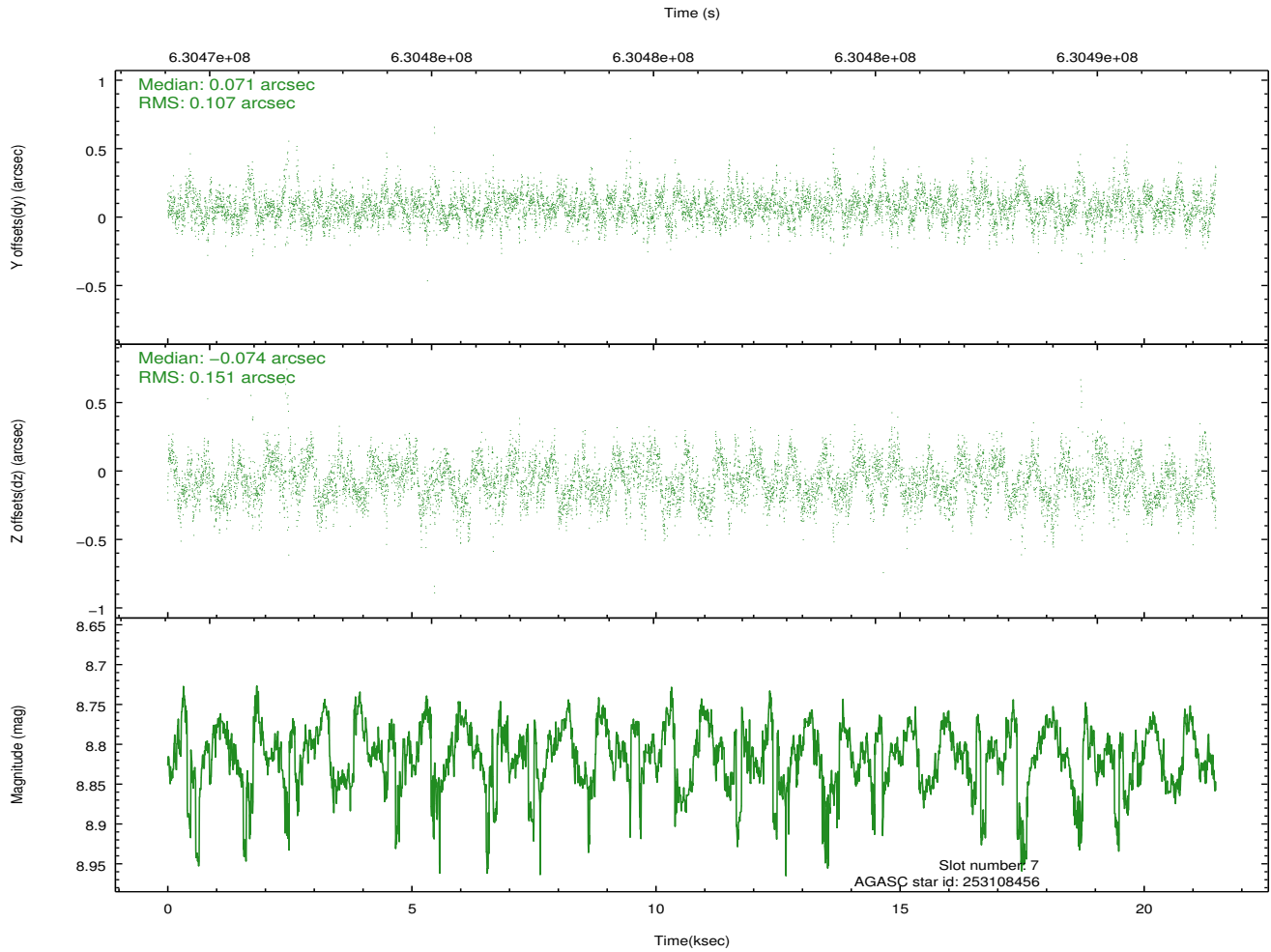
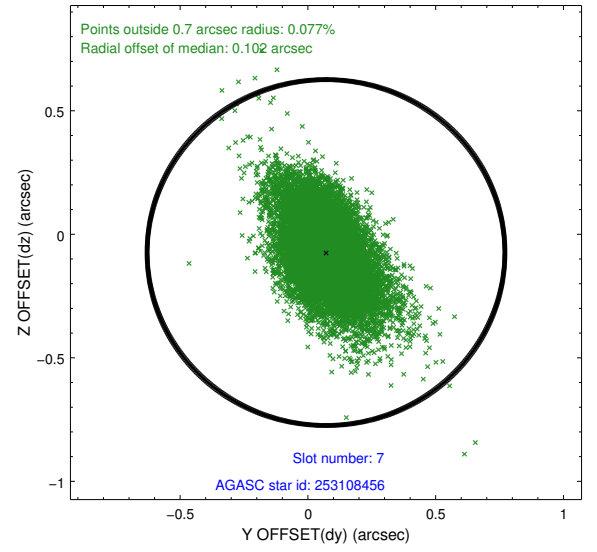
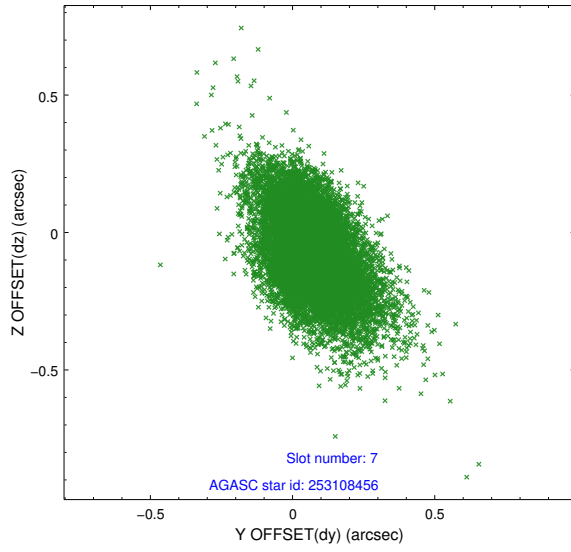
2.4.3 Slot 5



2.4.4 Slot 6

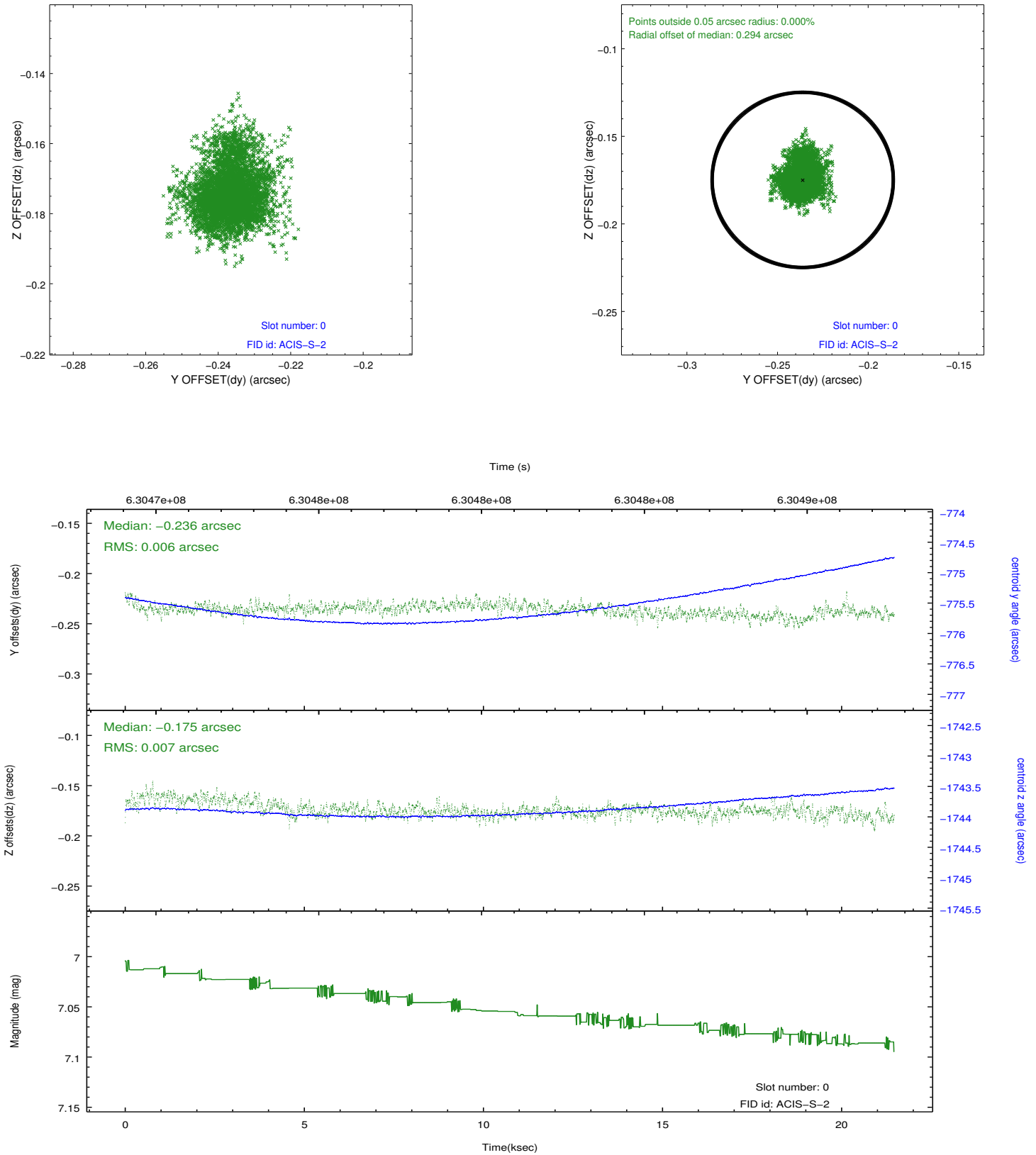


2.4.5 Slot 7

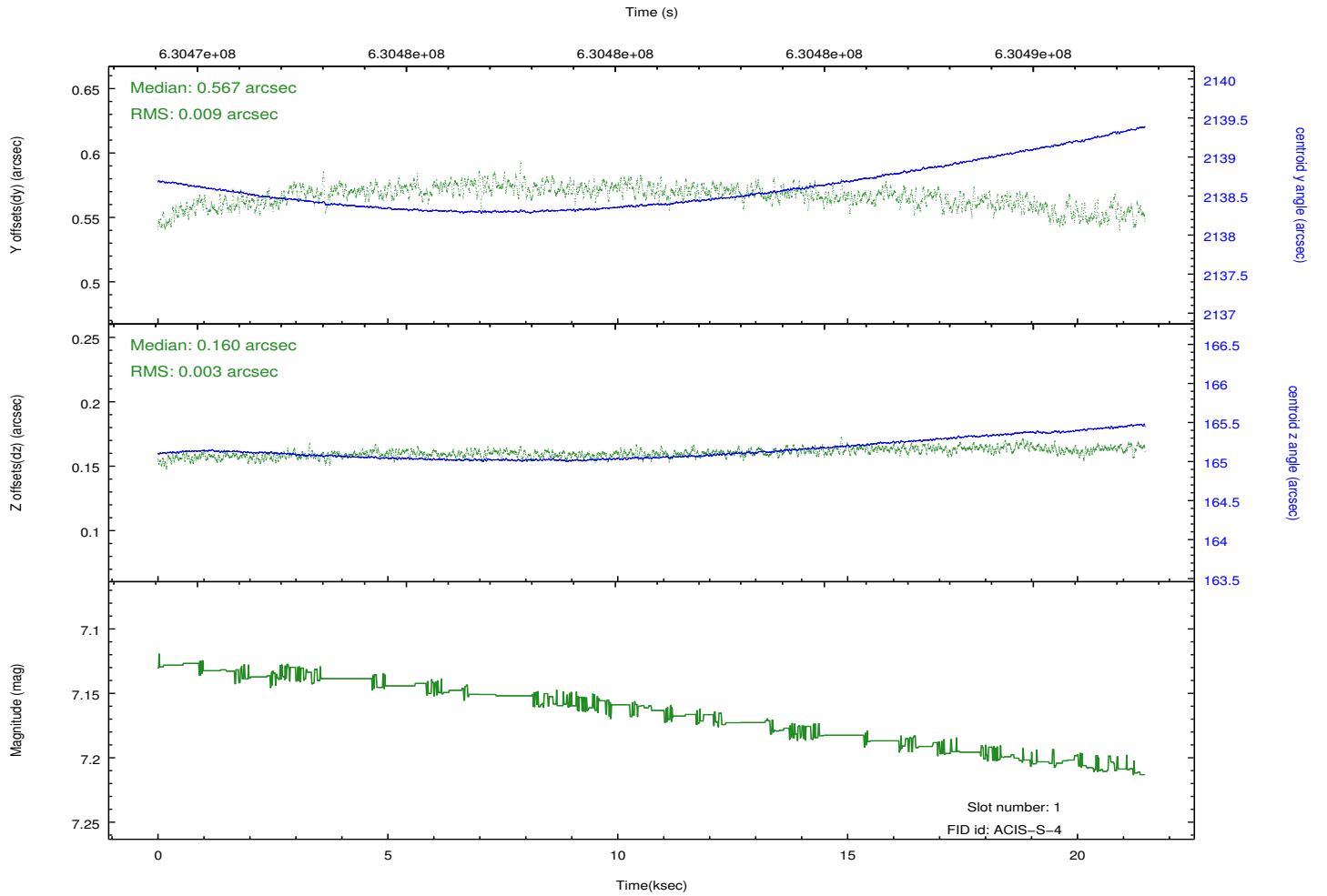
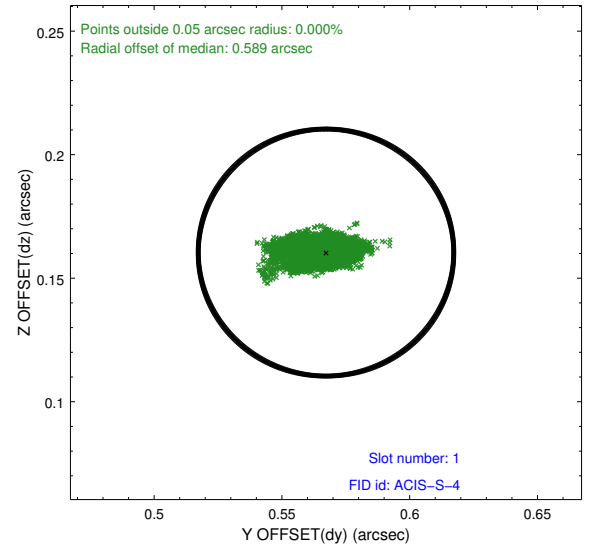
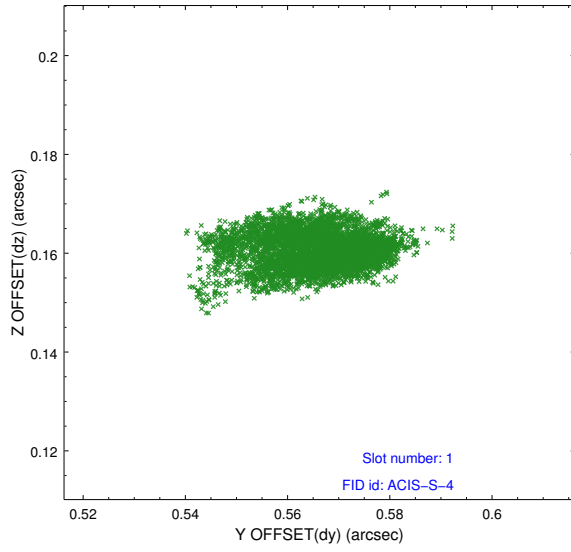


2.5 FID Slots

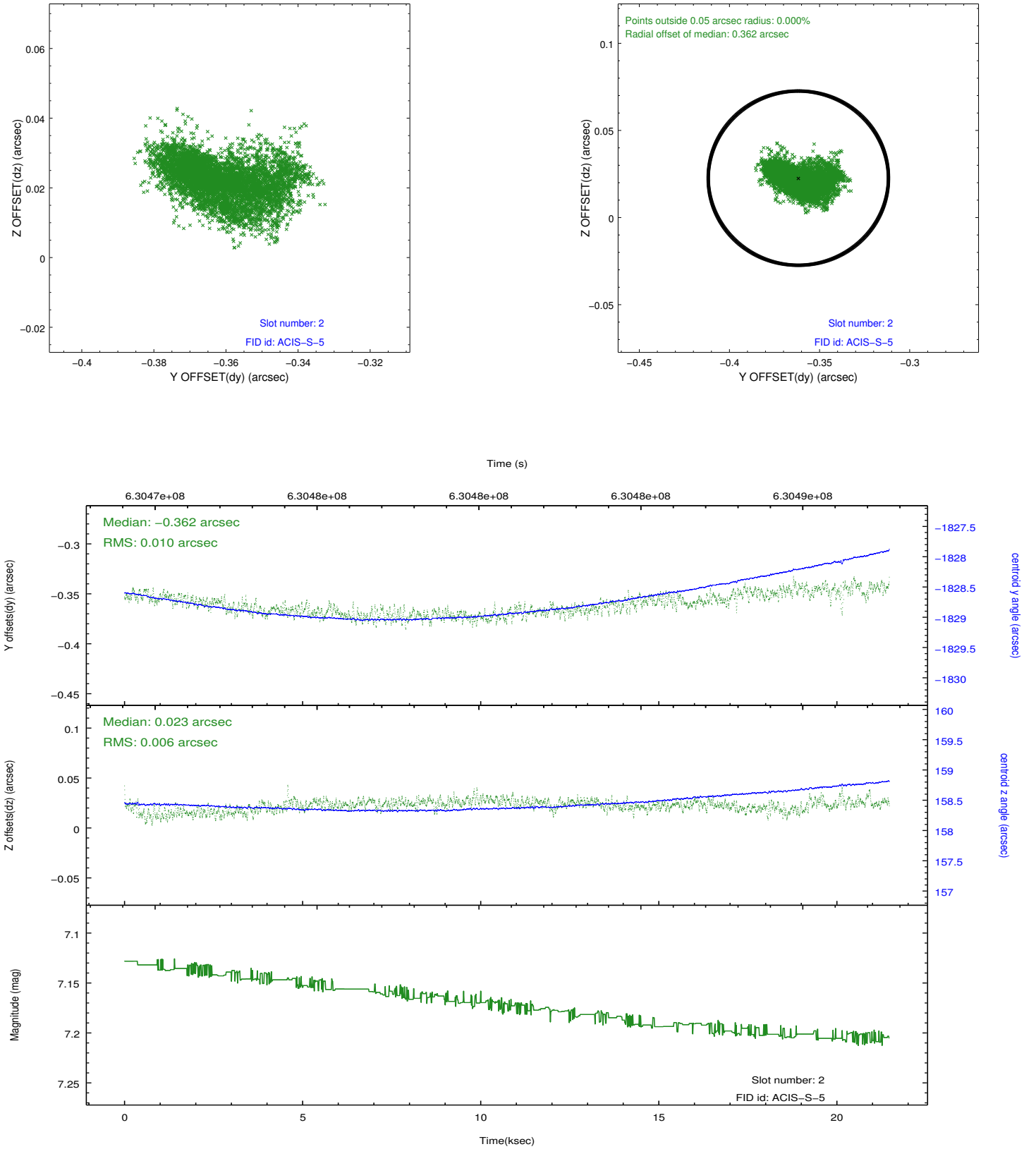
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2017.12.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.411700164795

A.2 Comments

Roll preference met. Optional chip I3 not included.