

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17166 - L2 Version 1
Chandra X-Ray Center

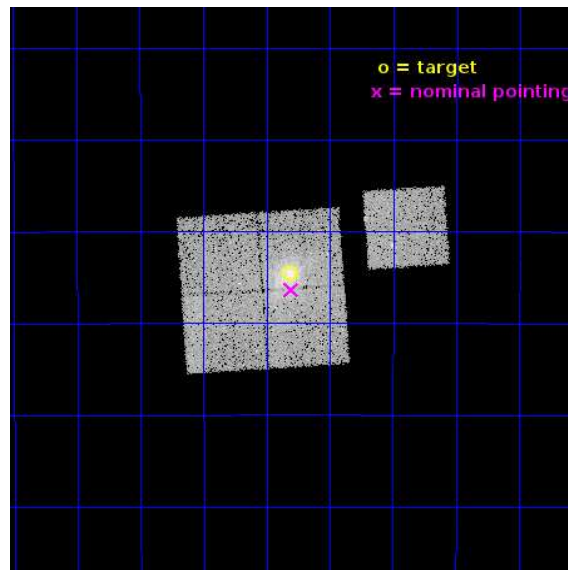
L2 Processing Date : Nov 24 2015

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	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
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

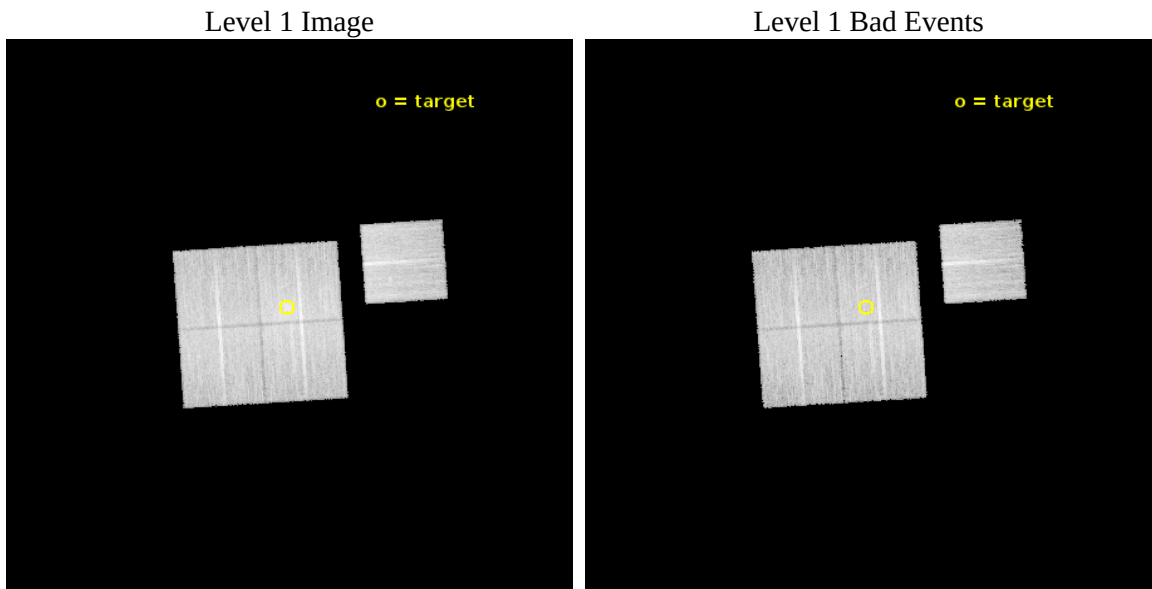
seq_num	801453	Sequence number
obs_id	17166	Observation id
title	Low mach number shocks reaccelerating particles in the Intra-cluster Medium; the unique case of PLCKG287.0 +32.9	Proposal title
observer	Dr Annalisa Bonafede	Principal investigator
object	PLCKG287+.0 +32.9	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	177.705	Observer's specified target RA [deg]
dec_targ	-28.077	Observer's specified target Dec [deg]
ra_nom	177.7010961203	Nominal RA [deg]
dec_nom	-28.105965720836	Nominal Dec [deg]
roll_nom	86.206847493303	Nominal Roll [deg]
revision	1	Processing version of data
ontime	21118.731051207	Sum of GTIs [s]
livetime	20842.799282639	Livetime [s]
ontime0	21121.78994143	Sum of GTIs [s]
ontime1	21124.97194171	Sum of GTIs [s]
ontime2	21118.731051207	Sum of GTIs [s]
ontime3	21125.054021716	Sum of GTIs [s]
ontime6	21121.748891473	Sum of GTIs [s]
l2events	70248	Number of level 2 events



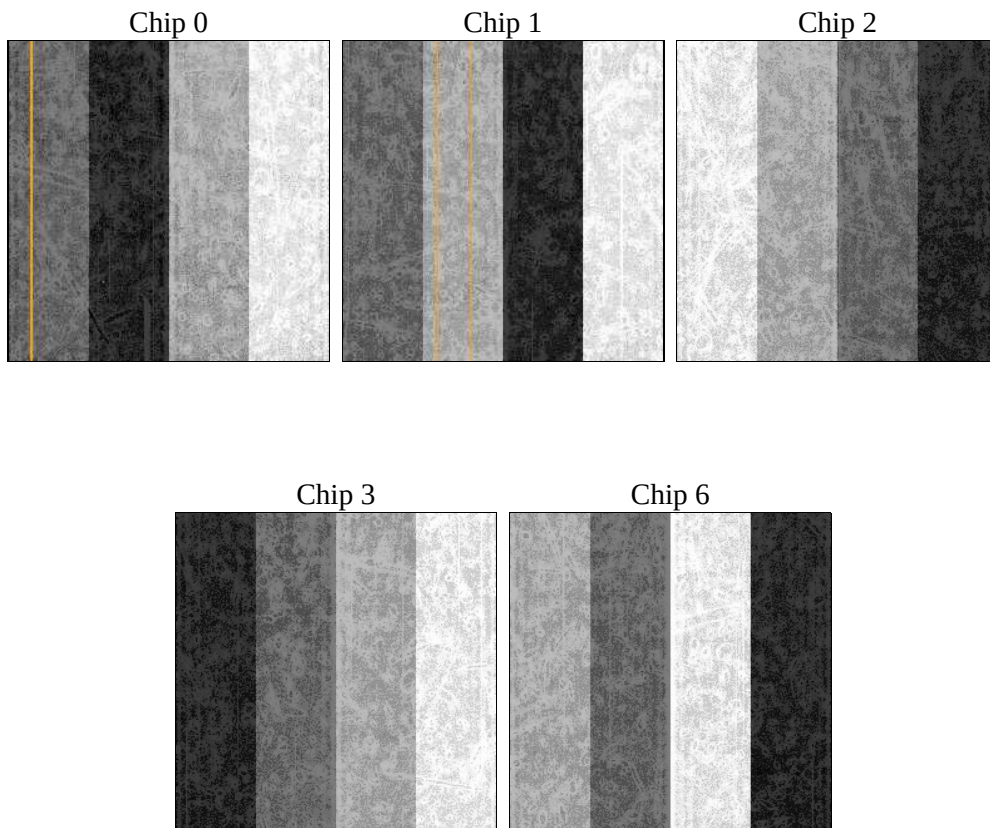
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	21055.289000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	21118.731051207	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	21121.78994143	Sum of GTIs [s]
date	2015-11-25T03:00:45	Date and time of file creation	ontime1	21124.97194171	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	21118.731051207	Sum of GTIs [s]
			ontime3	21125.054021716	Sum of GTIs [s]
			ontime6	21121.748891473	Sum of GTIs [s]
			l1events	595685	Number of level 1 events

2.1.4 Events

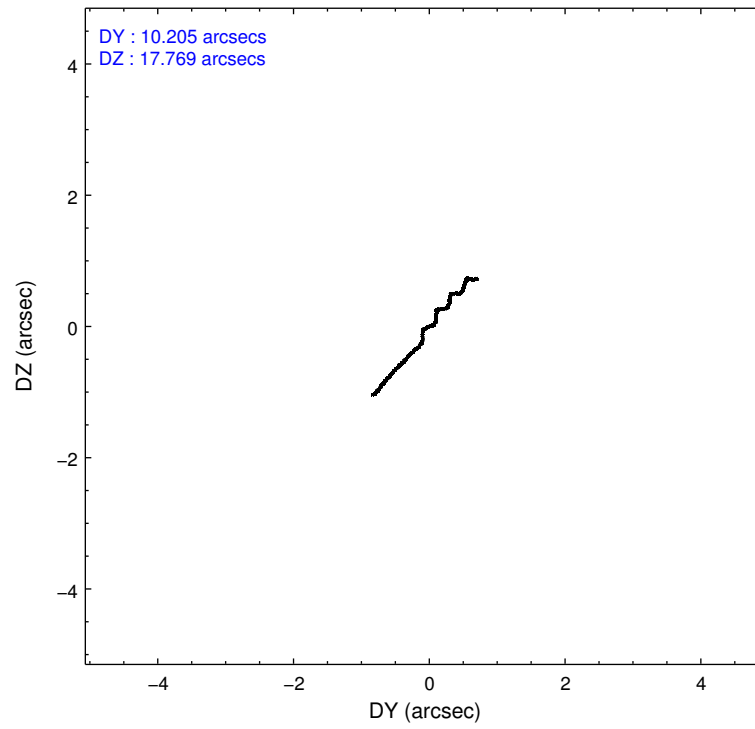
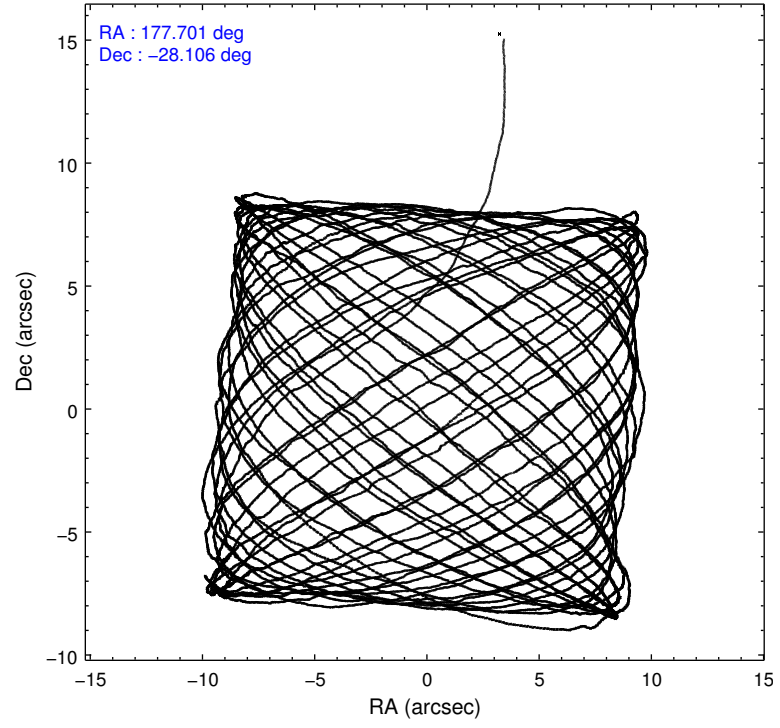
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	110249	115633	131094	118963	119746
rejected events	96148	99968	108412	103702	105665
rejected %	87%	86%	82%	87%	88%

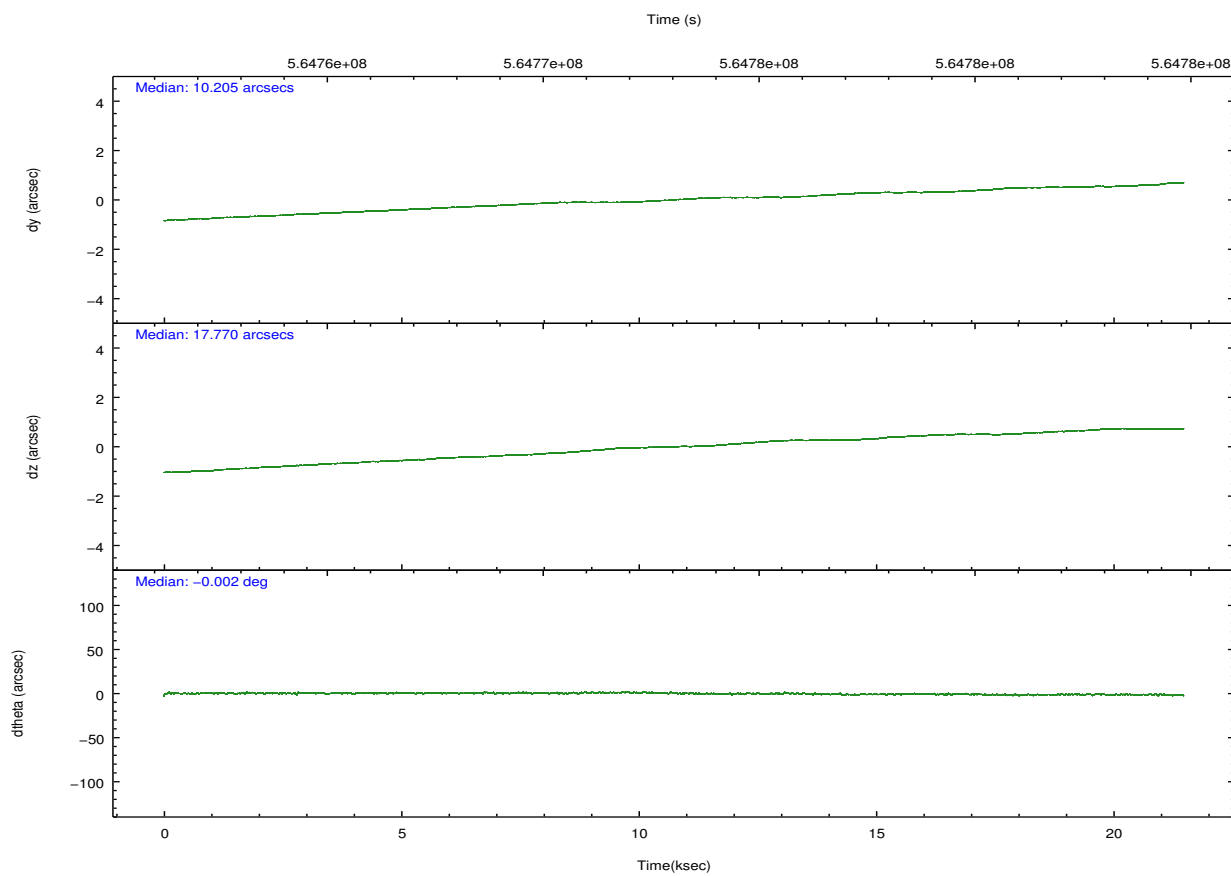
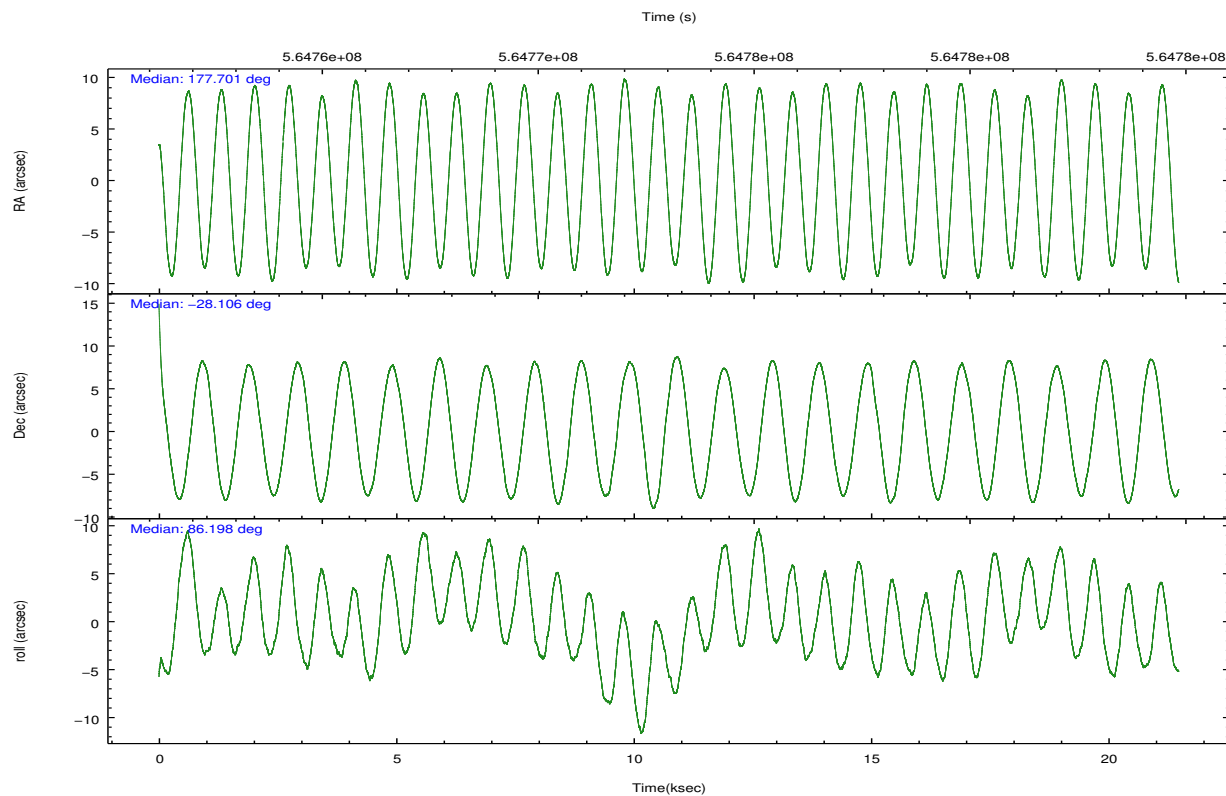
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4823	5510	12064	6480	4765
	4%	4%	9%	5%	3%
grade 1 events	60	70	106	81	55
	0%	0%	0%	0%	0%
grade 2 events	3637	3850	4358	3200	3275
	3%	3%	3%	2%	2%
grade 3 events	1425	1464	1703	1447	1415
	1%	1%	1%	1%	1%
grade 4 events	1390	1548	1667	1374	1423
	1%	1%	1%	1%	1%
grade 5 events	5497	5634	4975	6117	5891
	4%	4%	3%	5%	4%
grade 6 events	2826	3296	2895	2764	3204
	2%	2%	2%	2%	2%
grade 7 events	90591	94261	103326	97500	99718
	82%	81%	78%	81%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	177.715034	177.7010961202967	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.130676	-28.10596572083606	CCD I3 on	Y	Y
[deg] Pointing Roll	86.004736	86.20684749330285	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	Y
[mm] SIM translation stage pos	-226.842463	-226.8490694526479	CCD S3 on	N	N
[mm] SIM translation stage offset	-6.75	-6.743383550281806	CCD S4 on	N	N
[s] Observation start time (MET)	564762714.184000	564761600.10663	CCD S5 on	N	N
Observation start date	2015-11-24T14:30:46	2015-11-24T14:13:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	564783770.184000	564784000.4579	On-chip summing requested	N	N
Observation end date	2015-11-24T20:21:42	2015-11-24T20:26:40	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



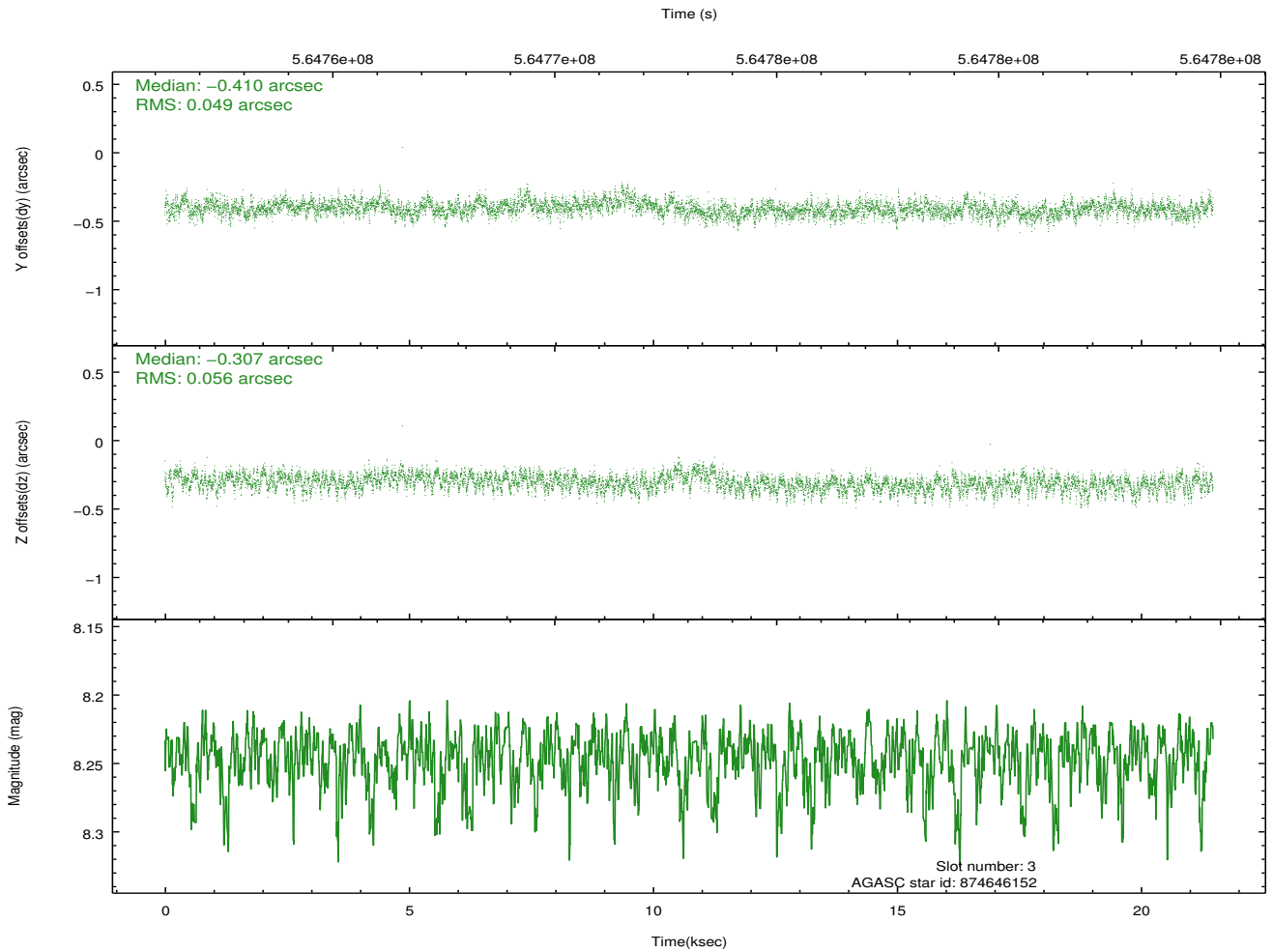
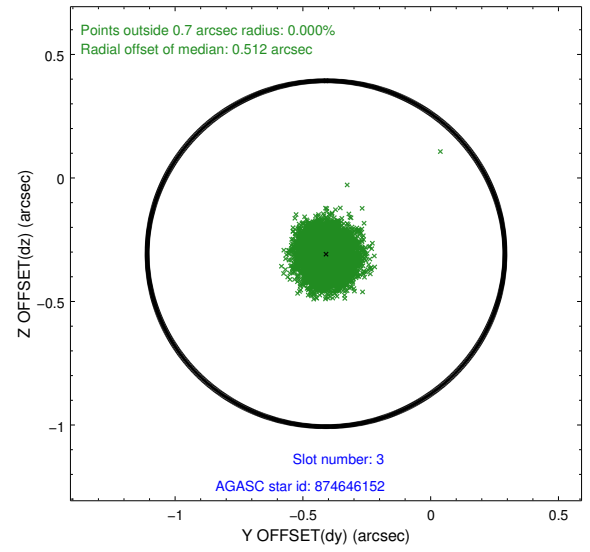
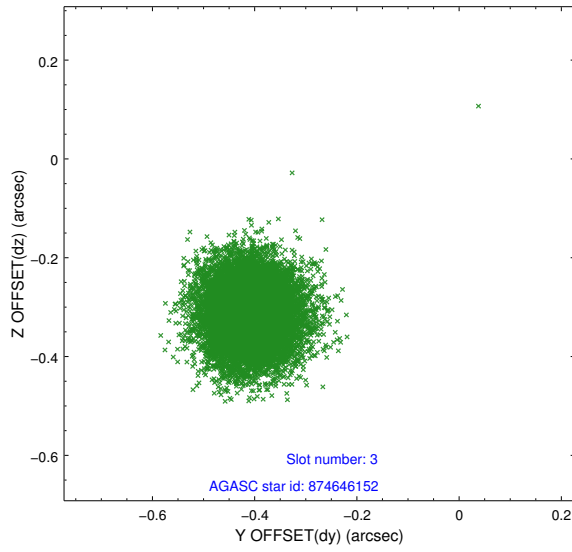


Slot Statistics

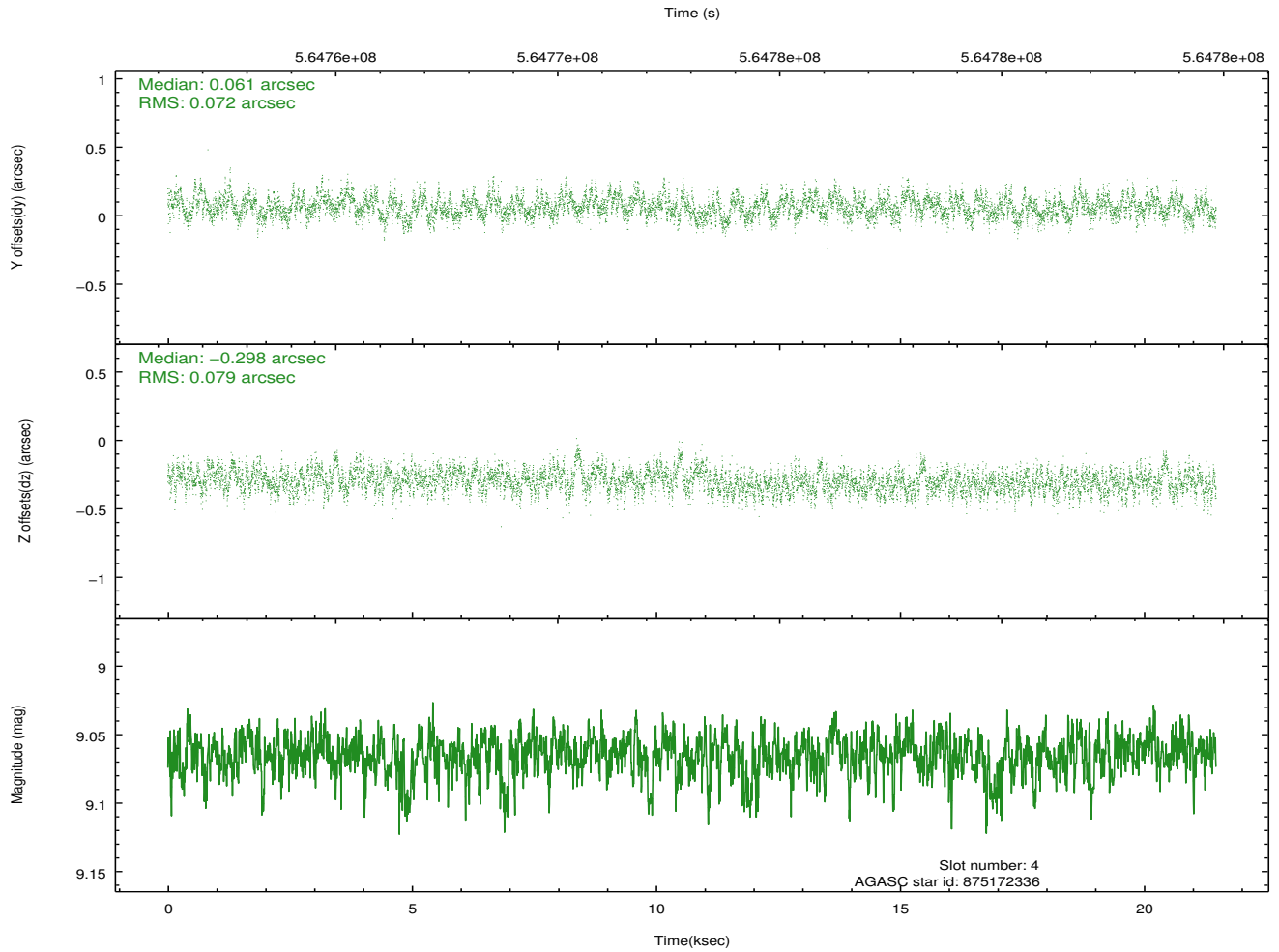
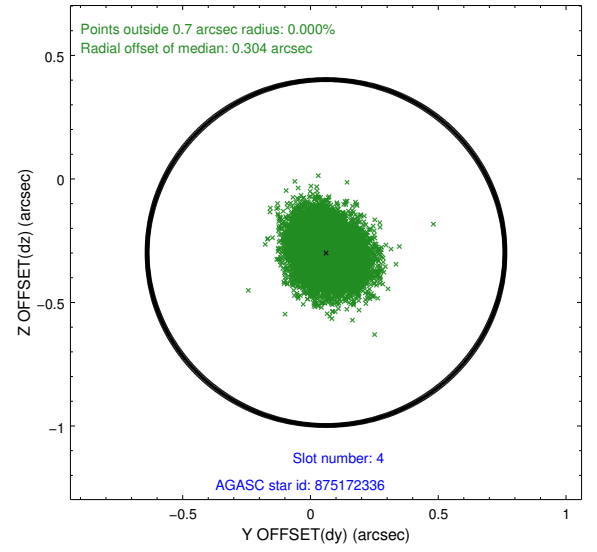
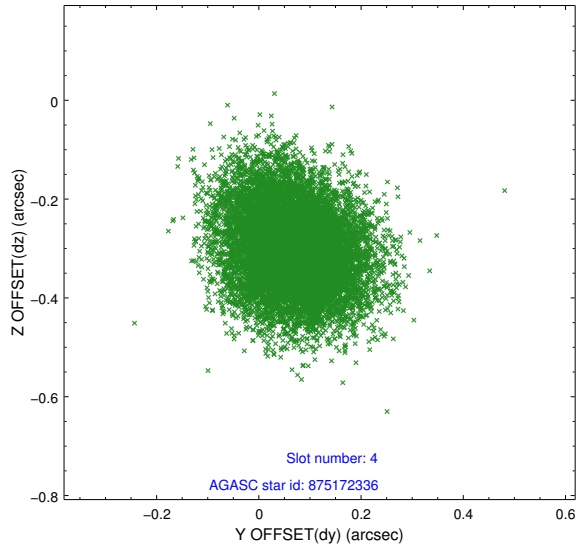
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.22	5238	0.180	-0.165	0.031	0.050	0.000000	0.000000	929.46	-979.97
1	FID		ACIS-I-5	7.23	5237	-0.390	0.116	0.009	0.015	0.000000	0.000000	-1819.12	917.68
2	FID		ACIS-I-6	7.25	5239	0.119	0.112	0.029	0.040	0.000000	0.000000	394.77	1562.37
3	GUIDE	used	874646152	8.24	10478	-0.410	-0.307	0.079	0.128	177.238074	-27.509803	2120.34	1675.10
4	GUIDE	used	875172336	9.06	10474	0.061	-0.298	0.115	0.183	176.990458	-28.388548	-1092.61	2224.05
5	GUIDE	used	875300464	9.43	10470	0.072	0.508	0.134	0.226	178.404263	-28.636939	-1671.84	-2298.24
6	GUIDE	used	875300768	8.82	10477	0.189	-0.056	0.093	0.150	178.404504	-28.278679	-384.77	-2218.15
7	GUIDE	used	875301144	9.01	10461	0.089	0.154	0.108	0.174	178.305115	-28.400581	-843.30	-1931.28

2.4 Star Slots

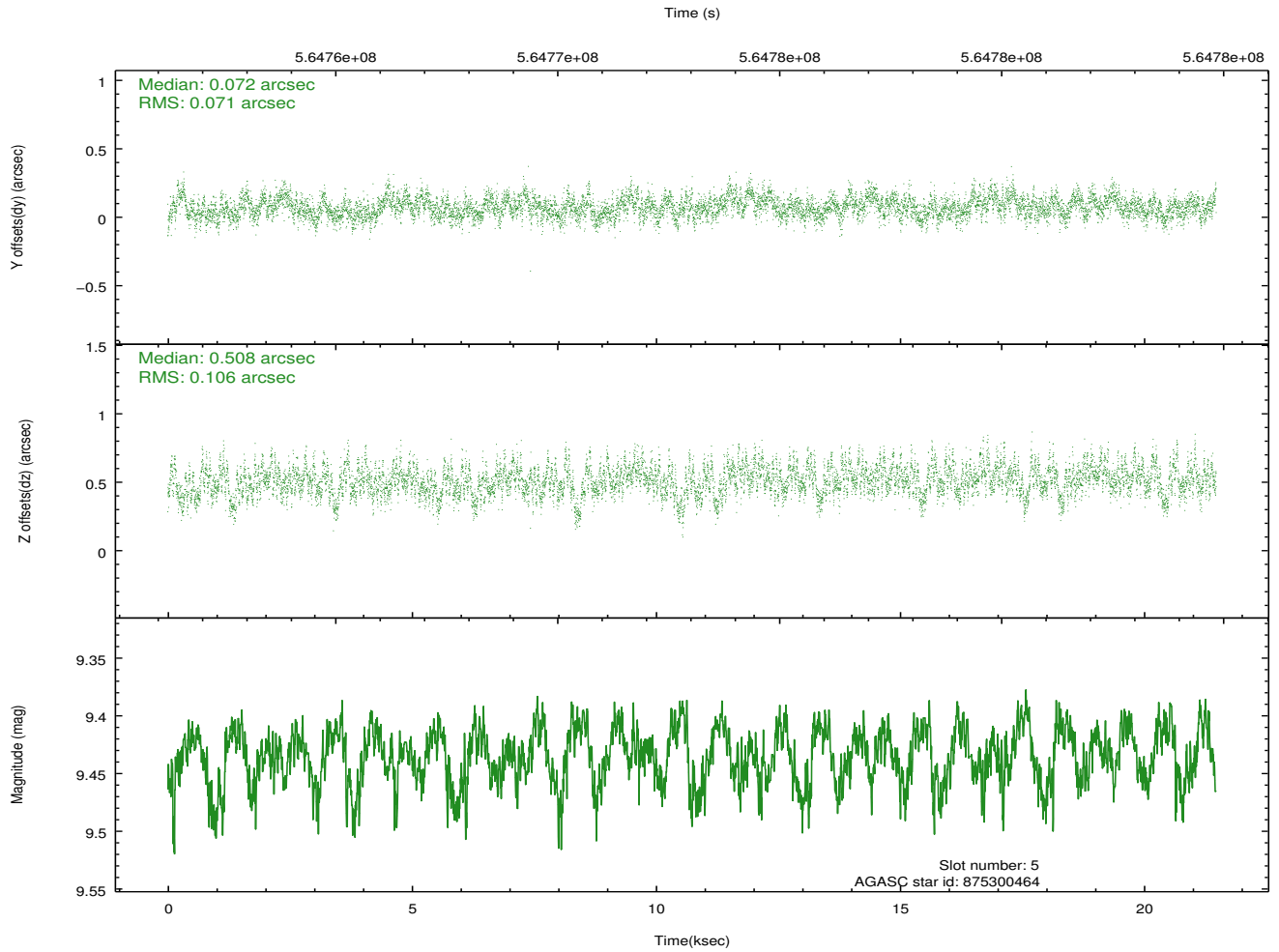
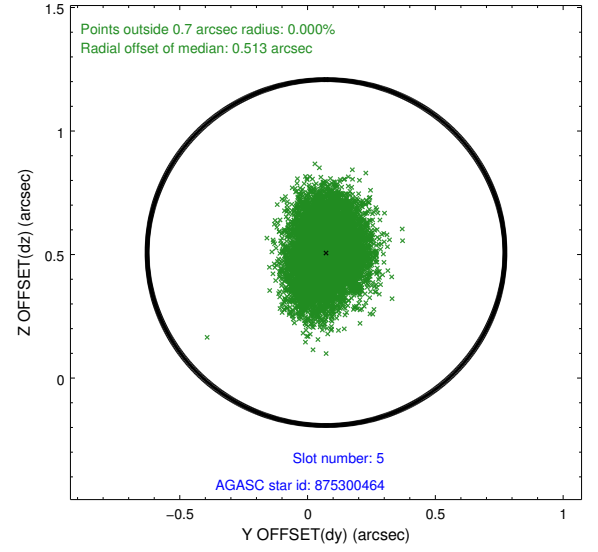
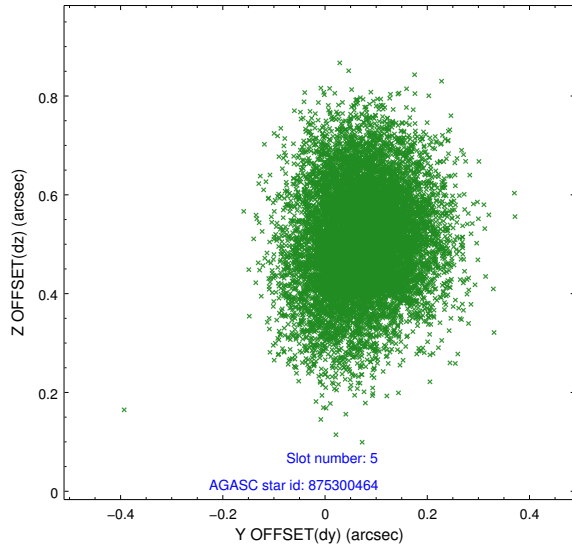
2.4.1 Slot 3



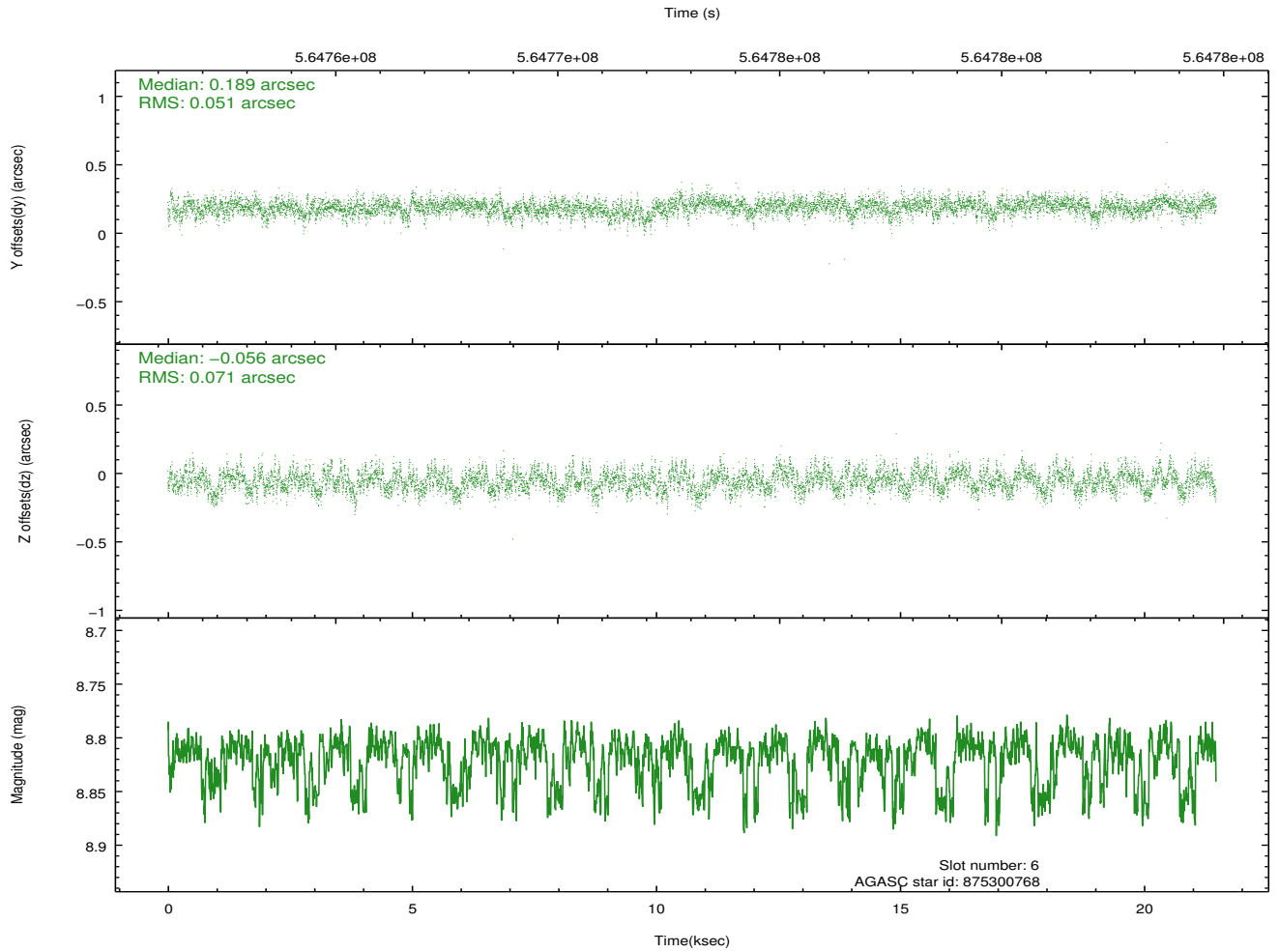
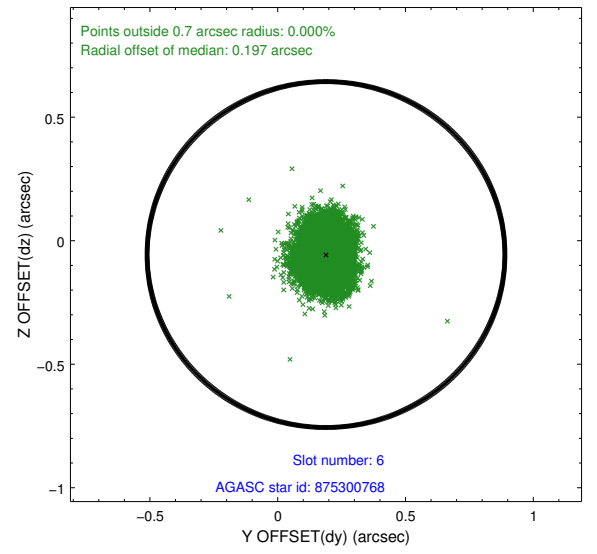
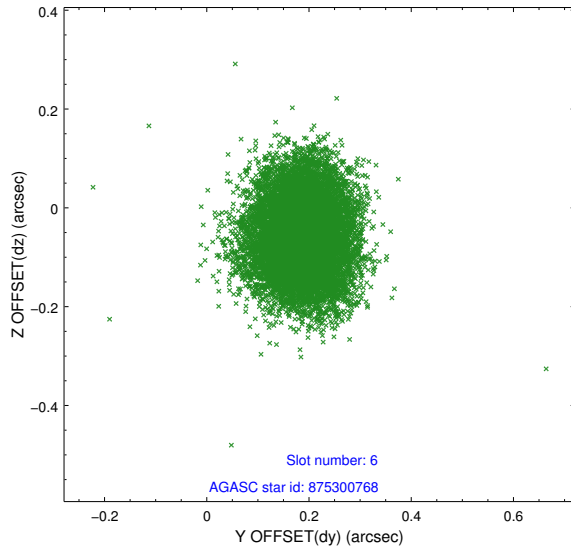
2.4.2 Slot 4



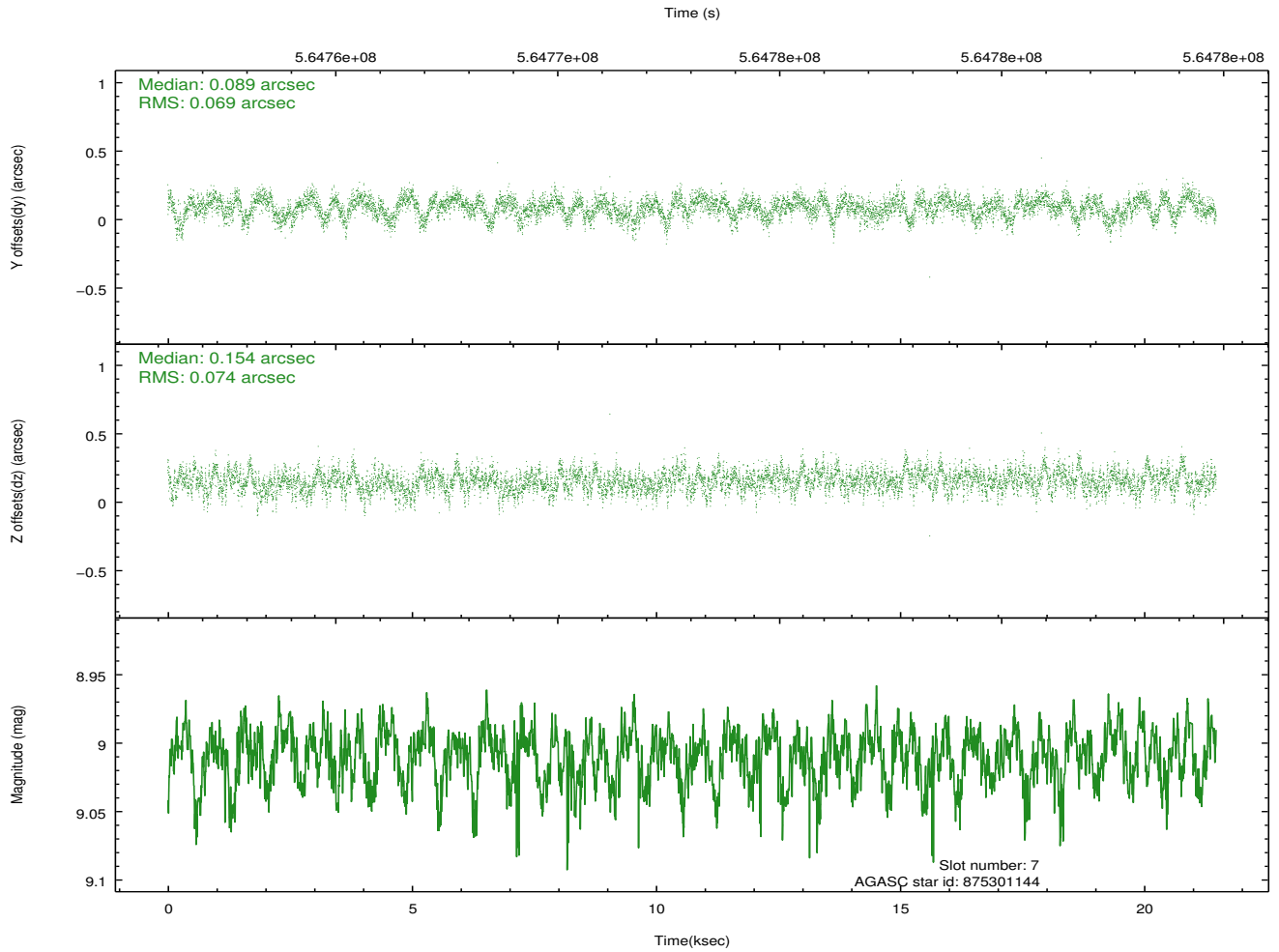
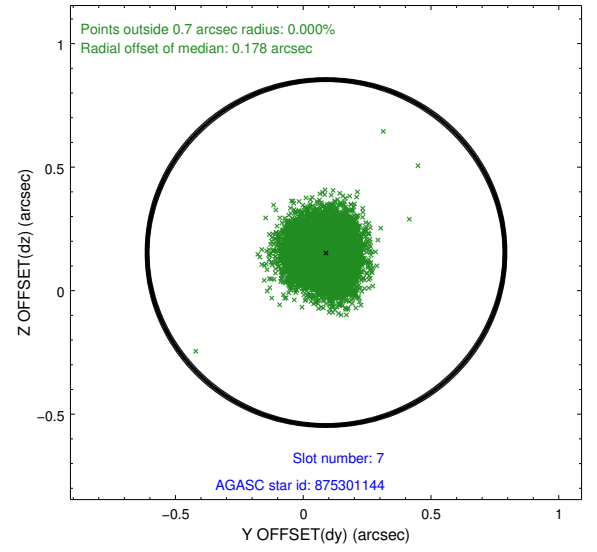
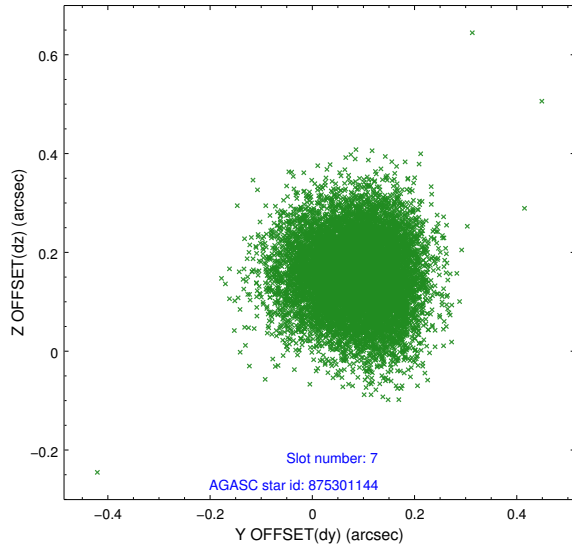
2.4.3 Slot 5



2.4.4 Slot 6

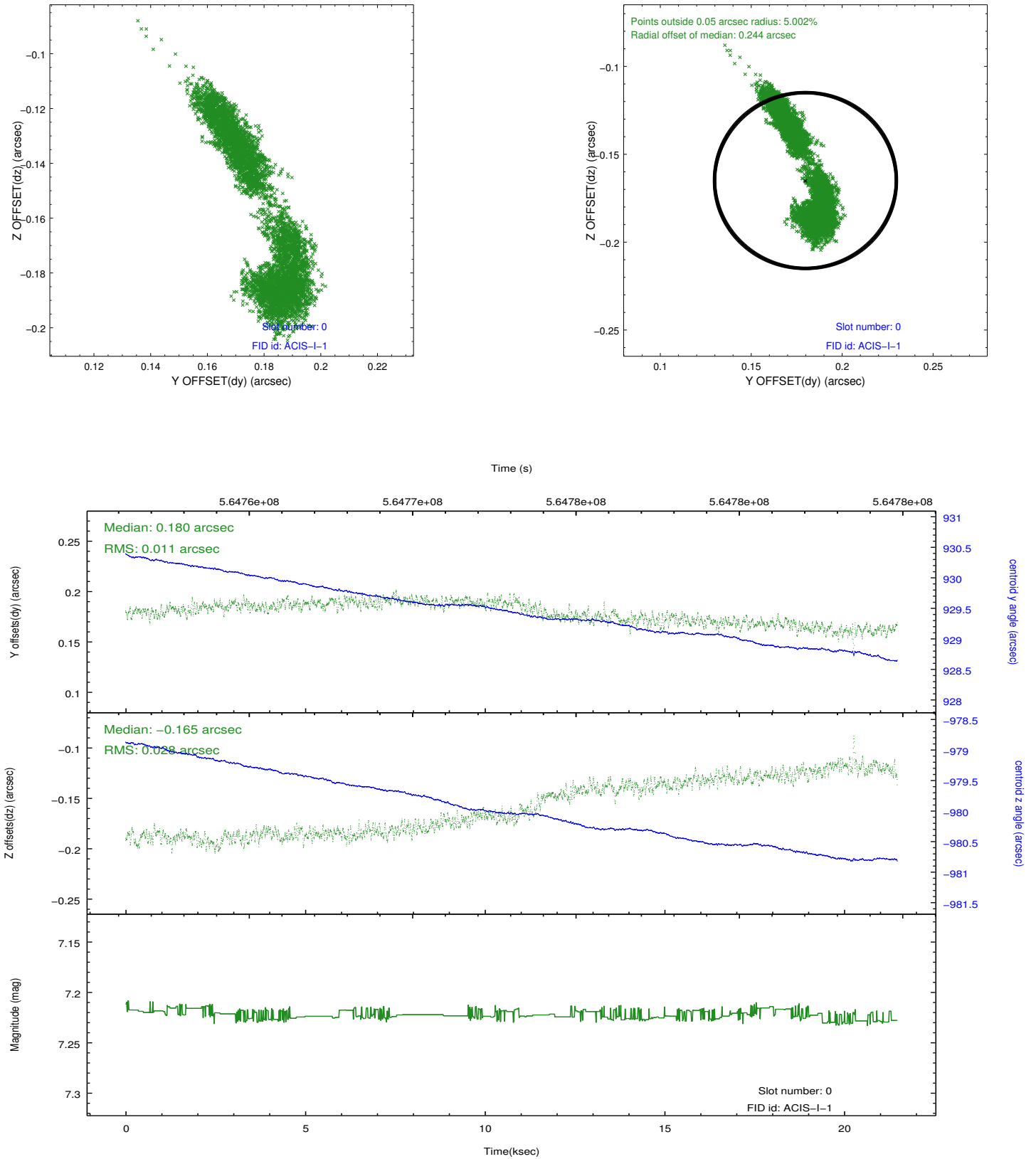


2.4.5 Slot 7

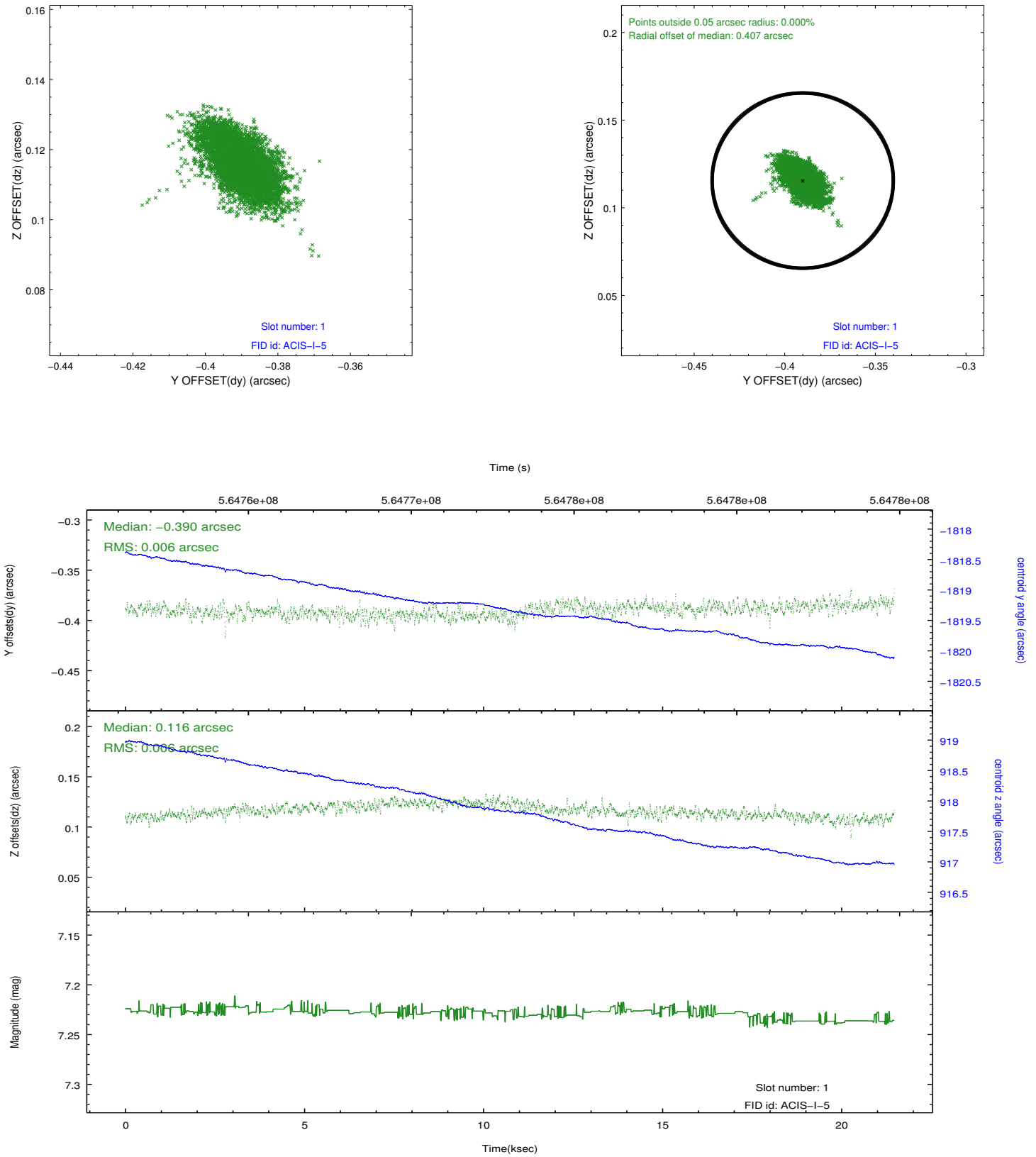


2.5 FID Slots

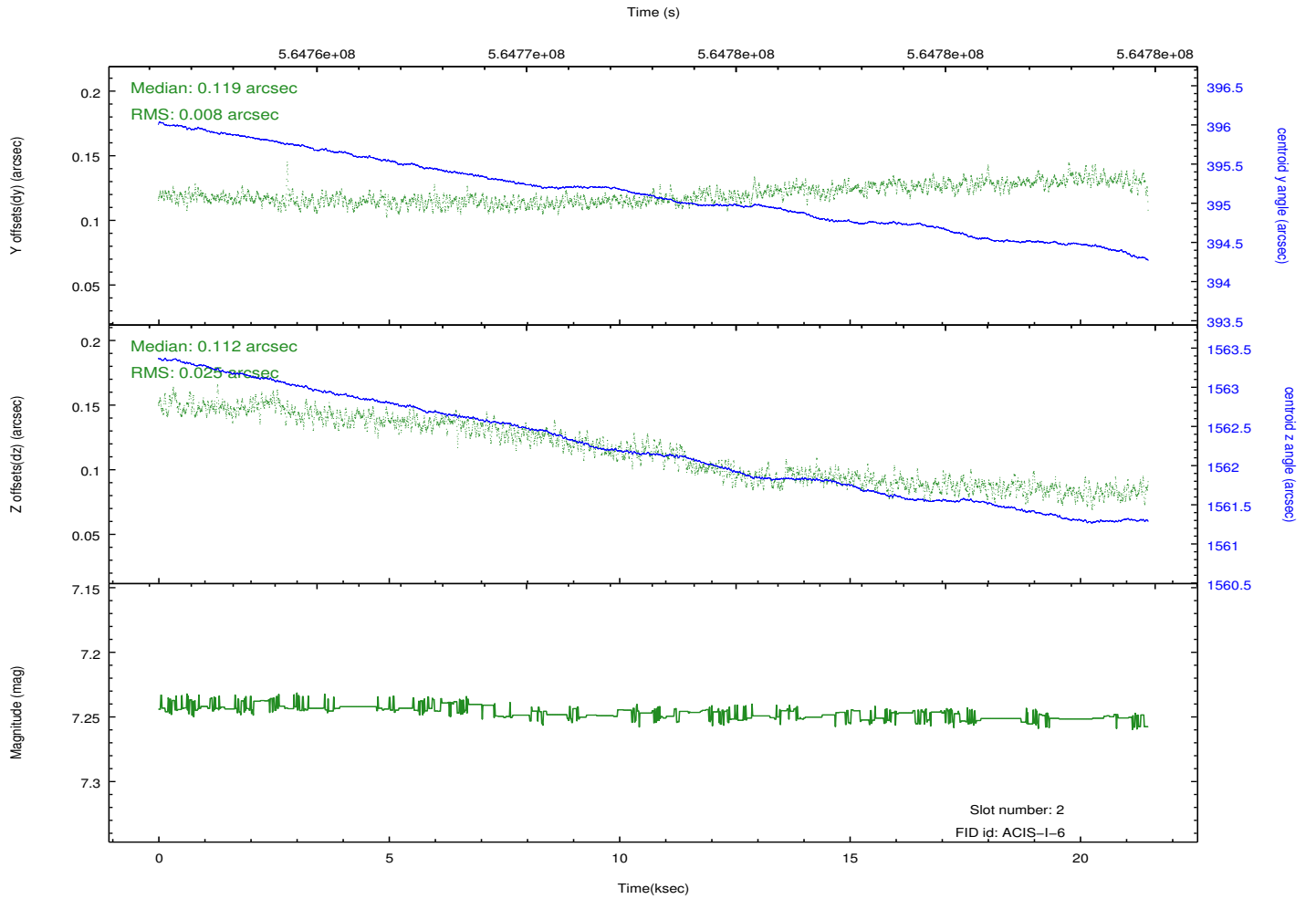
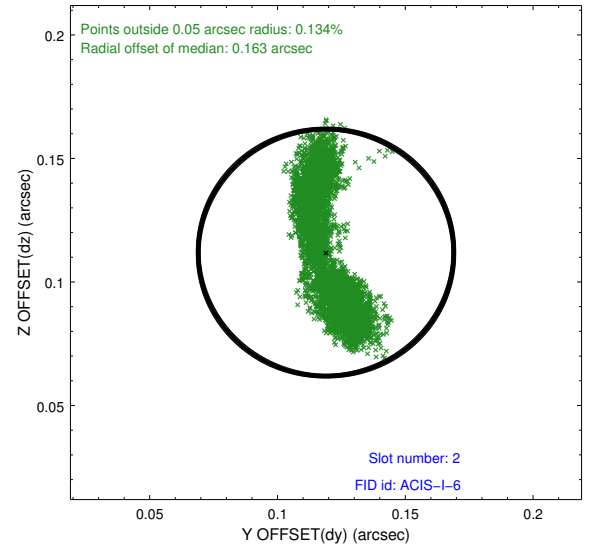
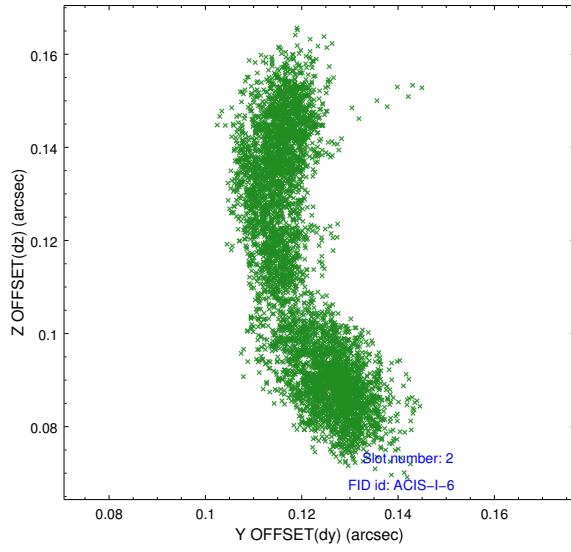
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2015.11.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.118731051207

A.2 Comments

Comments for Obi 1

Fid in slot 1 radial offset > 0.400000 arcsec

(Aspect review: this offset is acceptable; the solution is good.)