

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18775 - L2 Version 2
Chandra X-Ray Center

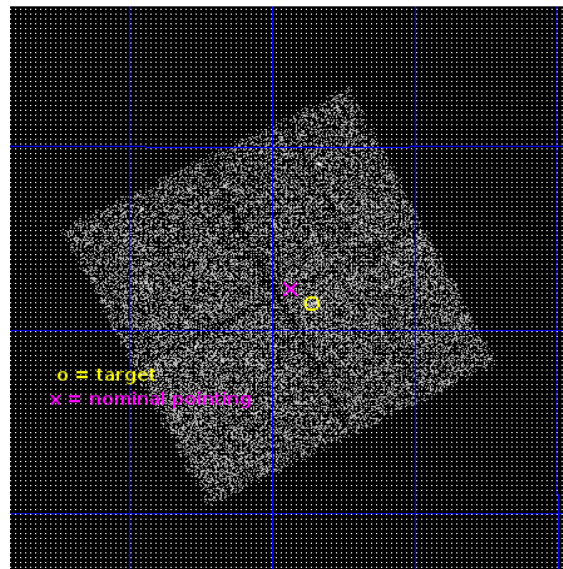
L2 Processing Date : Jan 3 2017

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 4	9
2.4.2	Slot 5	10
2.4.3	Slot 6	11
2.4.4	Slot 7	12
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

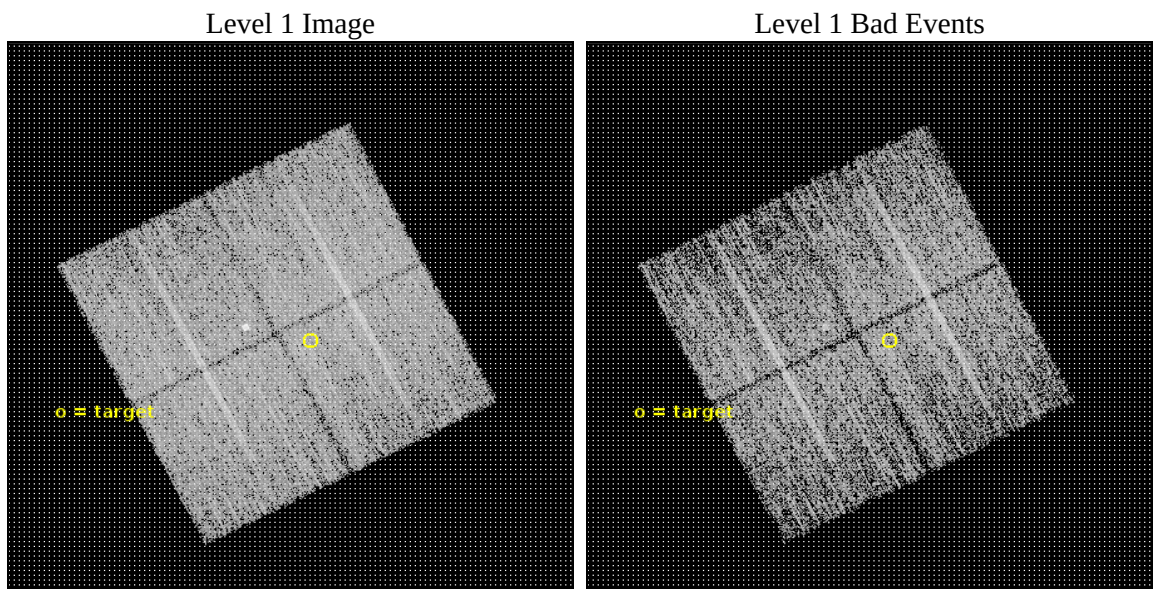
seq_num	801650	Sequence number
obs_id	18775	Observation id
title	Probing the extreme mass peaks at $z>0.7$	Proposal title
observer	Monique ARNAUD	Principal investigator
object	PLCK G227.99+38.11	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	143.09	Observer's specified target RA [deg]
dec_targ	5.69026	Observer's specified target Dec [deg]
ra_nom	143.1078678331	Nominal RA [deg]
dec_nom	5.7043286274209	Nominal Dec [deg]
roll_nom	62.921528186736	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10078.100077629	Sum of GTIs [s]
livetime	9946.4222807255	Livetime [s]
ontime0	10078.100077629	Sum of GTIs [s]
ontime1	10078.100077629	Sum of GTIs [s]
ontime2	10074.958997369	Sum of GTIs [s]
ontime3	10078.100077629	Sum of GTIs [s]
l2events	25014	Number of level 2 events



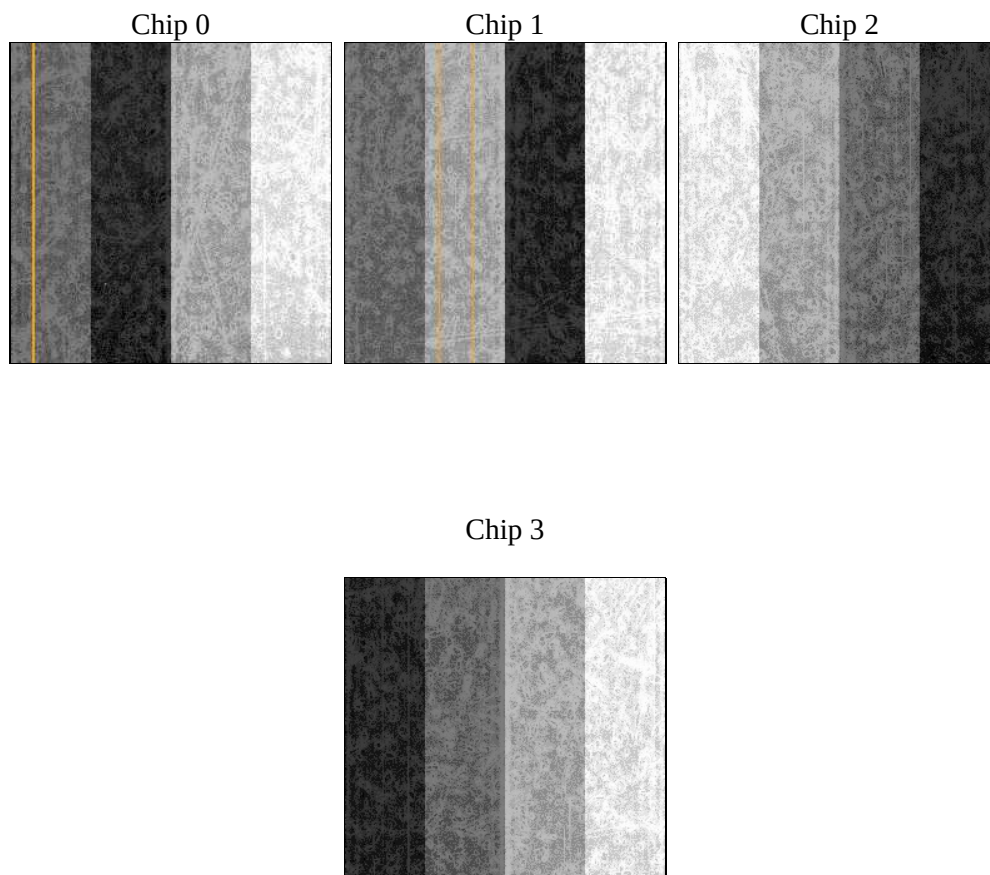
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	10078.100077629	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	10078.100077629	Sum of GTIs [s]
date	2017-01-03T13:31:34	Date and time of file creation	ontime1	10078.100077629	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10074.958997369	Sum of GTIs [s]
			ontime3	10078.100077629	Sum of GTIs [s]
			l1events	272853	Number of level 1 events

2.1.4 Events

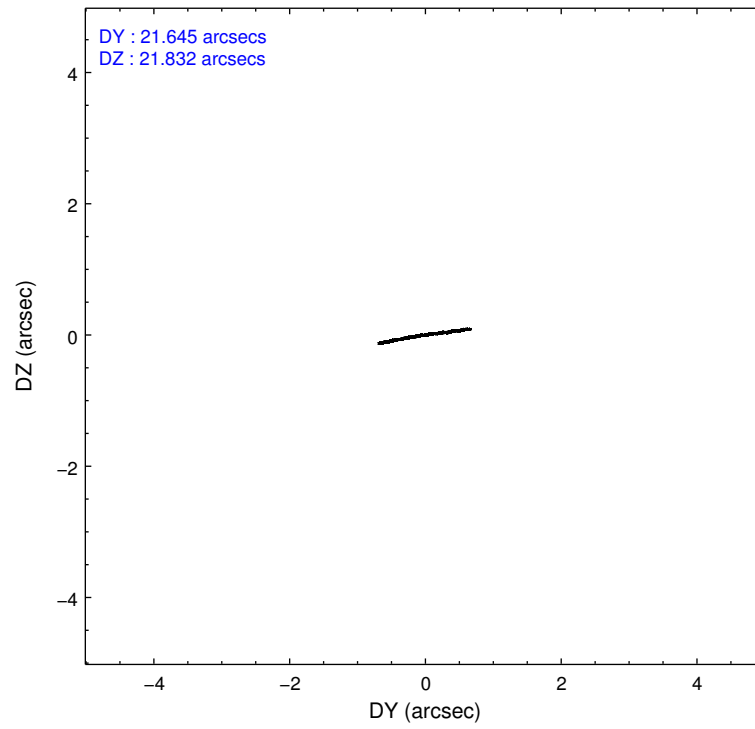
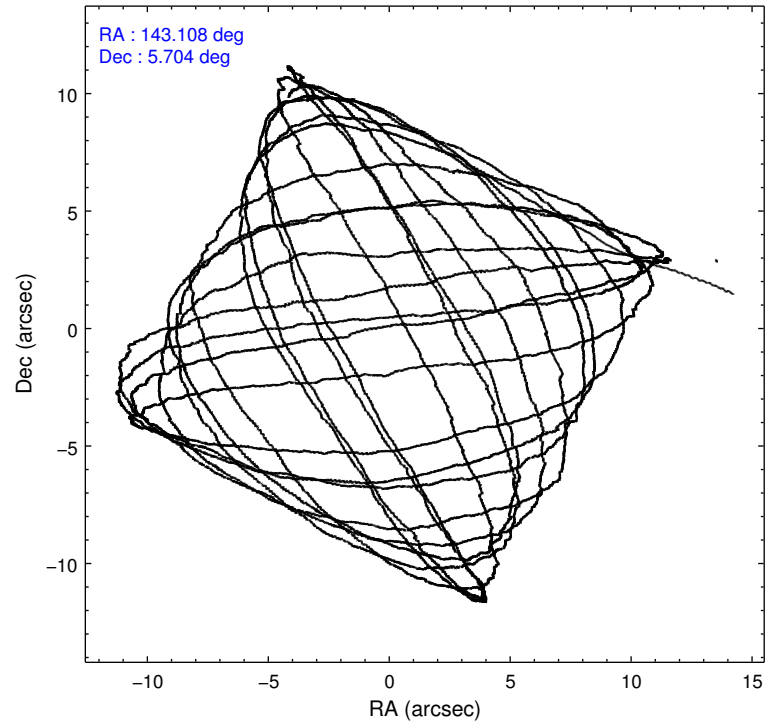
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	66893	66035	71531	68394
rejected events	58557	57957	64271	61325
rejected %	87%	87%	89%	89%

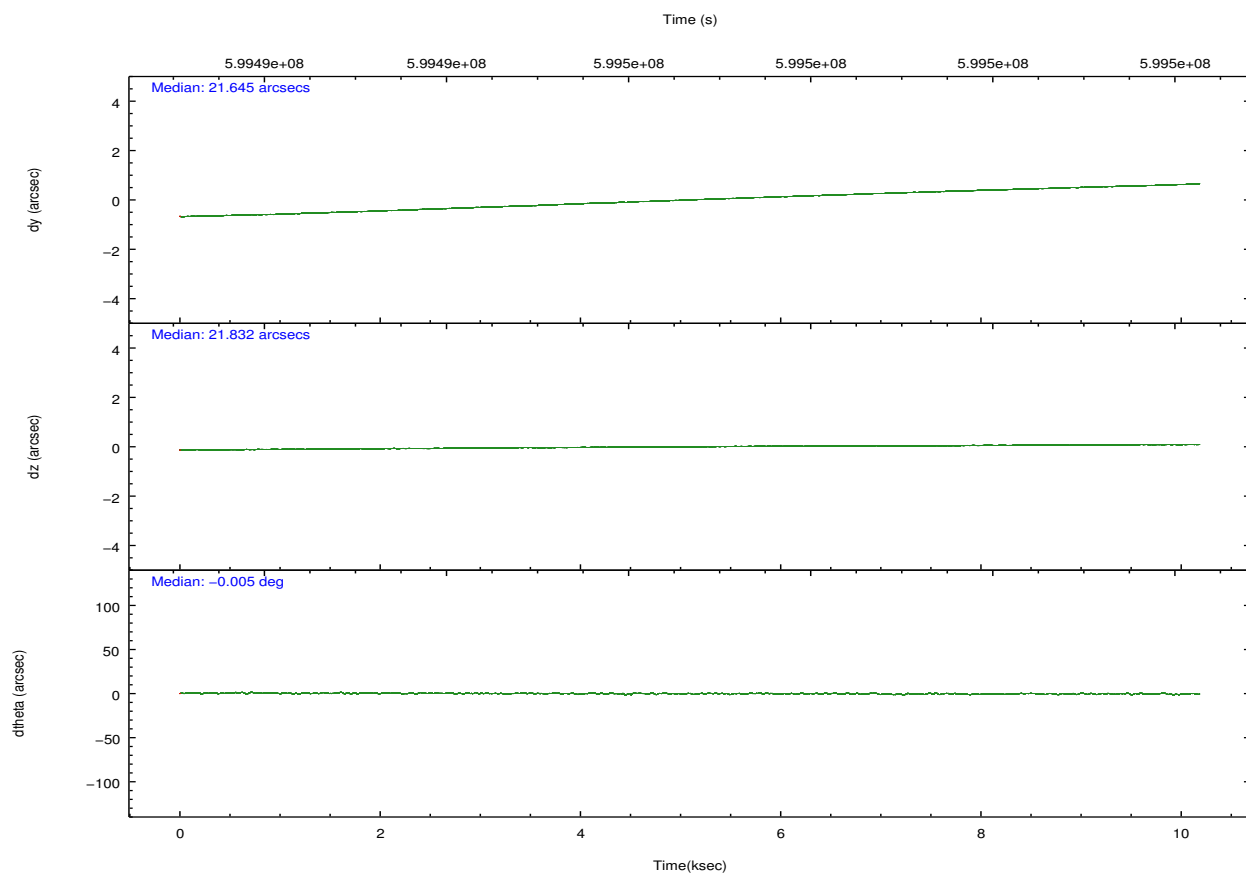
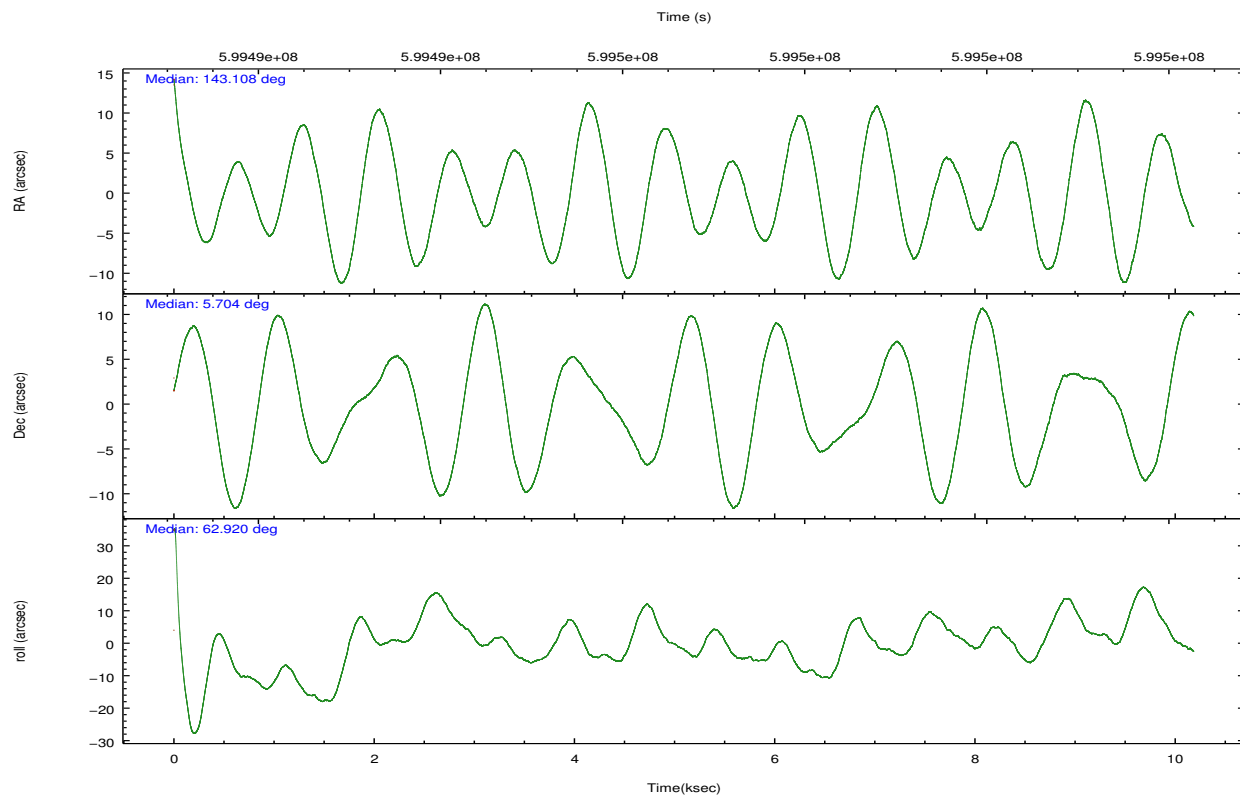
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	2525	2498	2509	2474
	3%	3%	3%	3%
grade 1 events	44	21	33	29
	0%	0%	0%	0%
grade 2 events	2683	1981	1701	1519
	4%	2%	2%	2%
grade 3 events	752	832	743	741
	1%	1%	1%	1%
grade 4 events	738	756	783	710
	1%	1%	1%	1%
grade 5 events	2941	3085	2733	3348
	4%	4%	3%	4%
grade 6 events	1641	2014	1526	1629
	2%	3%	2%	2%
grade 7 events	55569	54848	61503	57944
	83%	83%	85%	84%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	143.109393	143.107867833097	Subarray requested	NONE	NONE
[deg] Pointing Dec	5.676720	5.704328627420942	Alternating exposures requested	N	N
[deg] Pointing Roll	62.712595	62.92152818673645	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	599491761.184000	599490758.11865			
Observation start date	2016-12-30T13:28:13	2016-12-30T13:12:38			
[s] Observation end time (MET)	599501761.184000	599502132.54431			
Observation end date	2016-12-30T16:14:53	2016-12-30T16:22:12			
Read mode	TIMED	TIMED			

2.3 Aspect



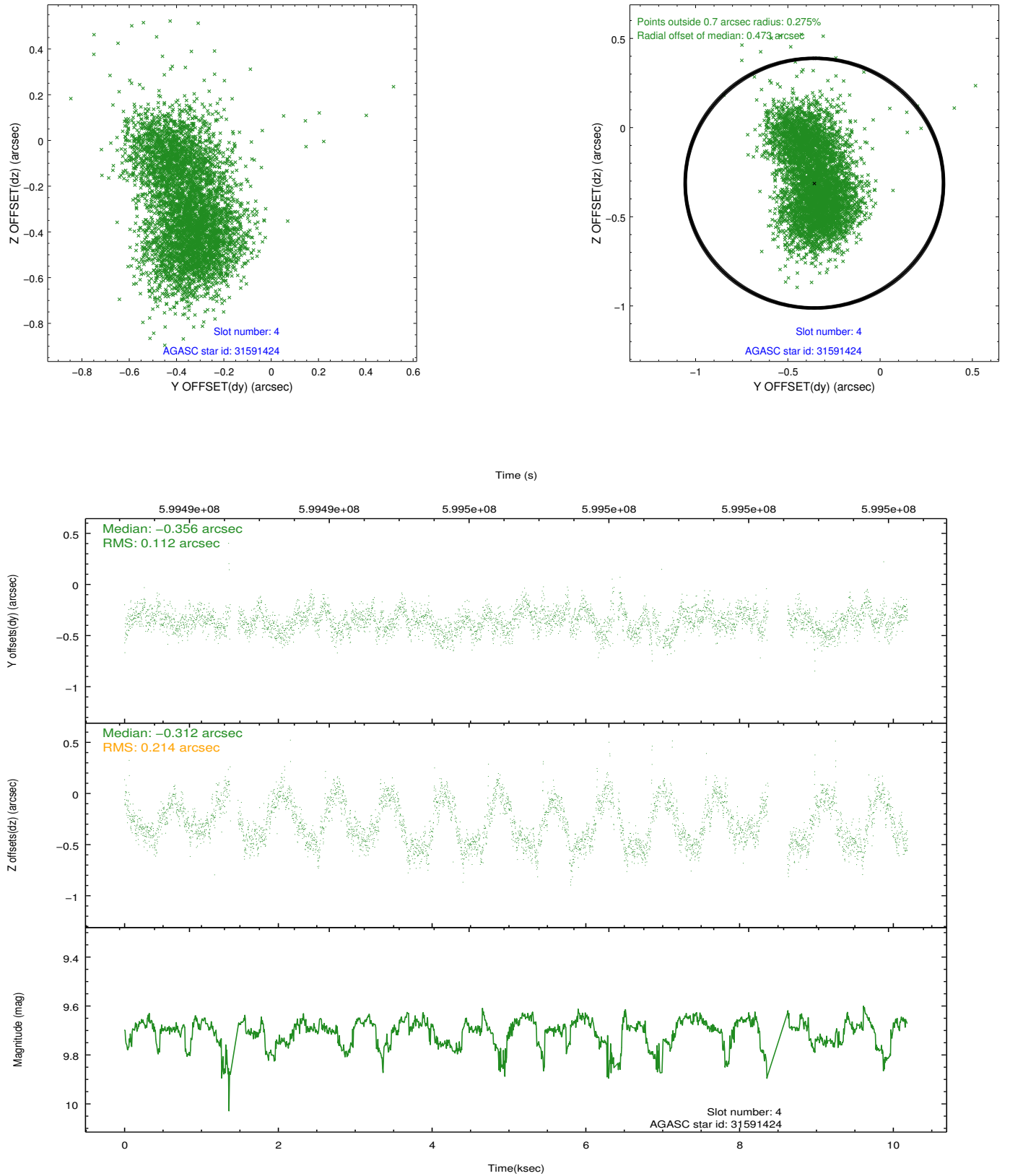


Slot Statistics

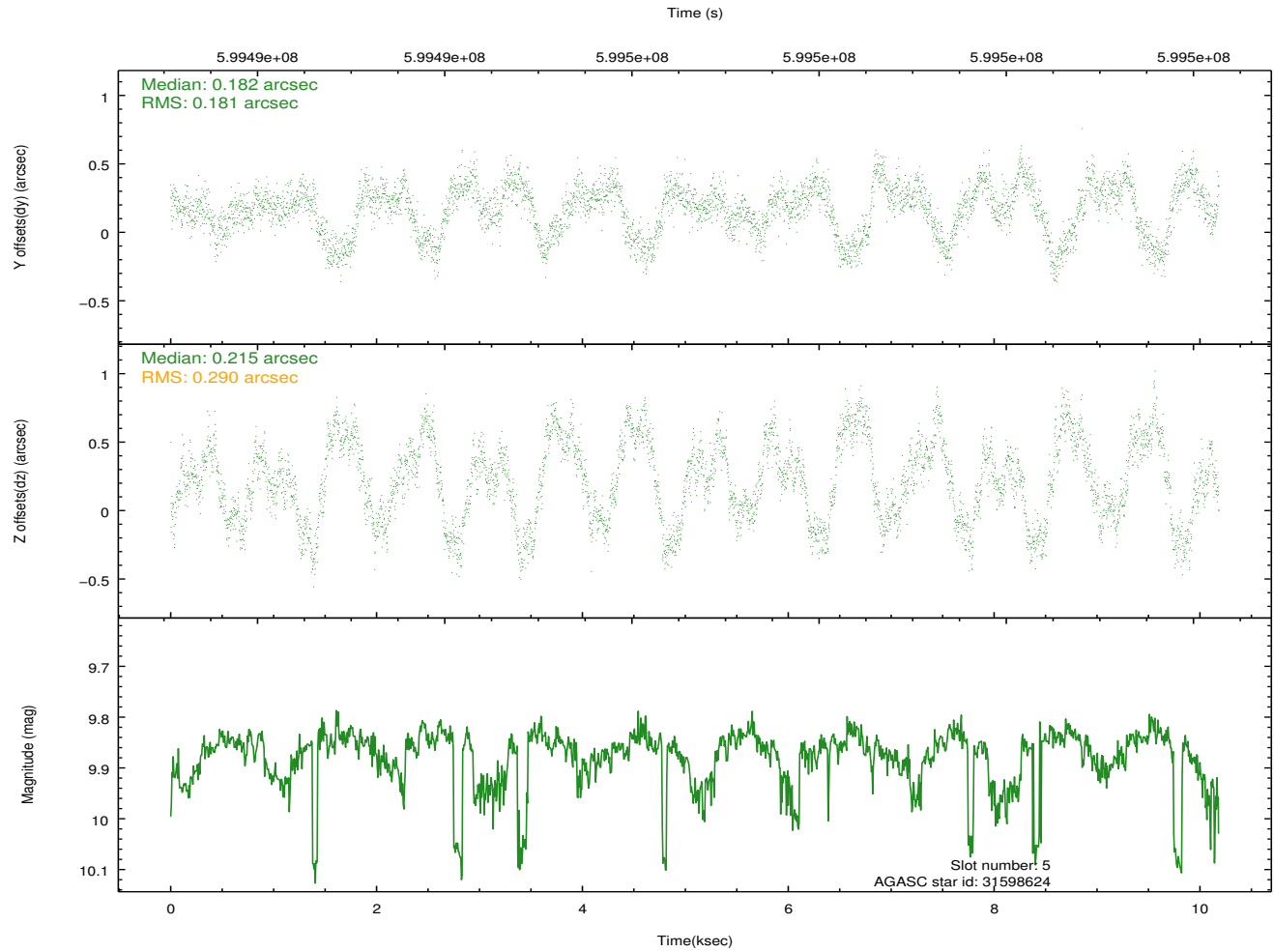
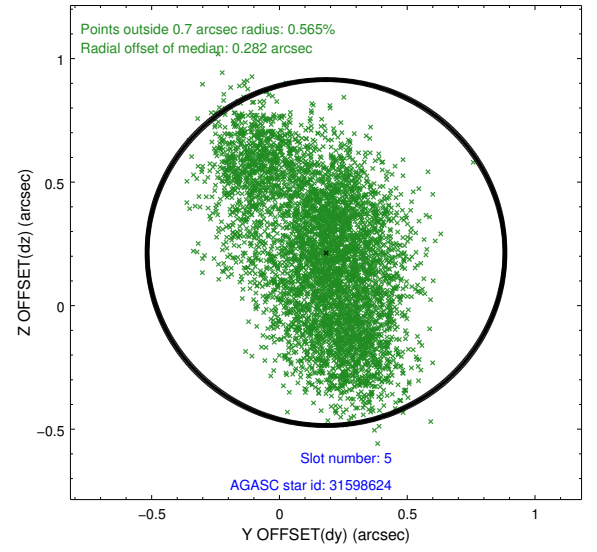
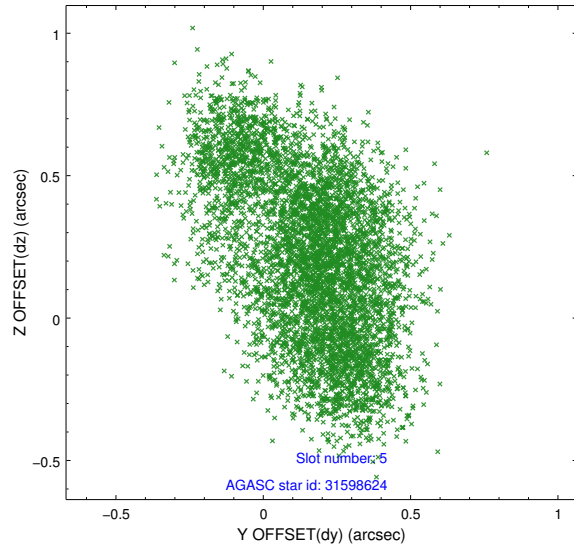
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.29	2485	0.120	-0.076	0.009	0.016	0.000000	0.000000	917.81	-845.63
1	FID		ACIS-I-5	7.27	2485	-0.452	0.050	0.010	0.018	0.000000	0.000000	-1830.69	1051.58
2	FID		ACIS-I-6	7.30	2485	0.241	0.097	0.007	0.011	0.000000	0.000000	382.77	1696.83
3	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
4	GUIDE	used	31591424	9.70	4732	-0.356	-0.312	0.257	0.406	143.060959	6.302107	1921.21	1185.83
5	GUIDE	used	31598624	9.87	4957	0.182	0.215	0.378	0.575	143.216864	5.821618	640.49	-102.27
6	GUIDE	used	31605864	8.59	4965	0.281	0.179	0.192	0.303	143.185019	5.122887	-1646.78	-1154.87
7	GUIDE	used	31606320	9.08	4963	-0.121	-0.117	0.160	0.255	143.158656	5.877657	720.97	171.86

2.4 Star Slots

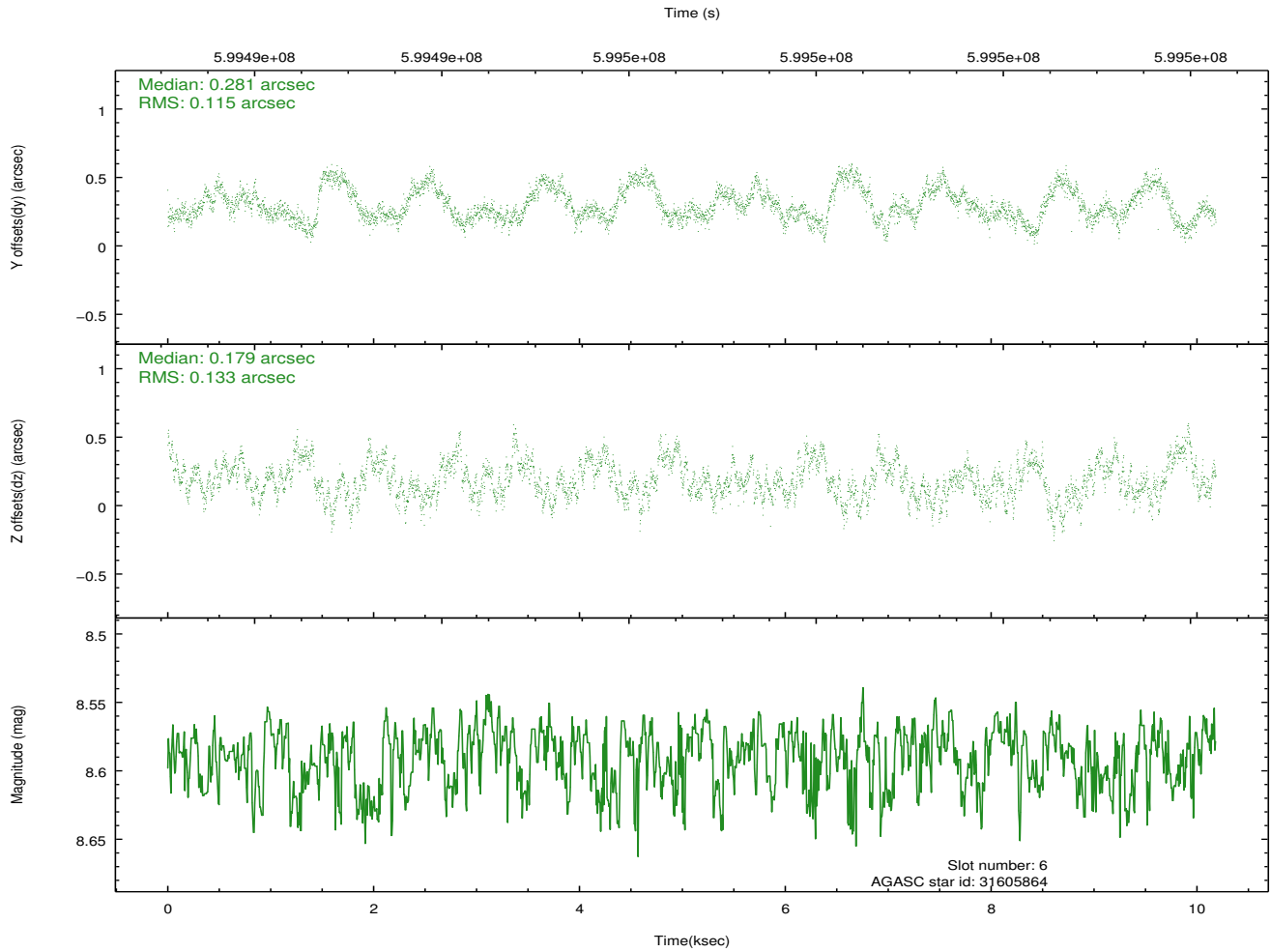
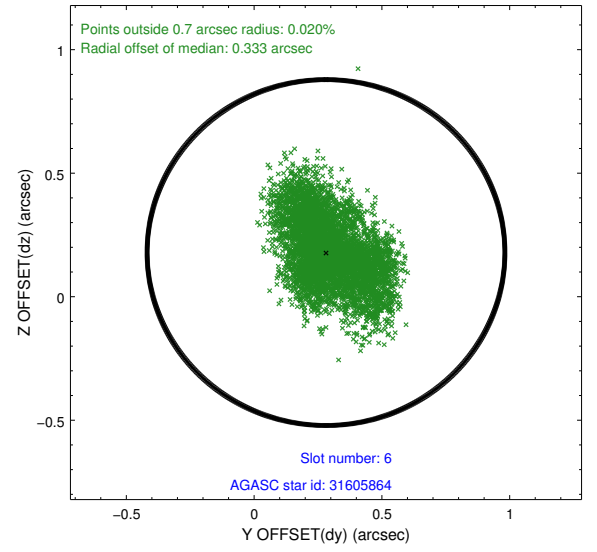
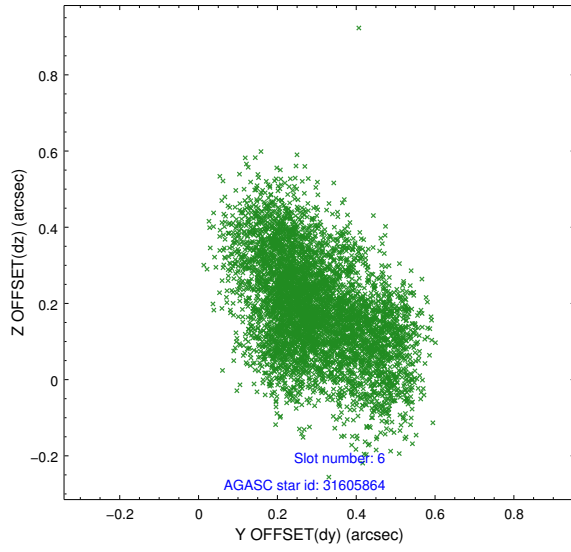
2.4.1 Slot 4



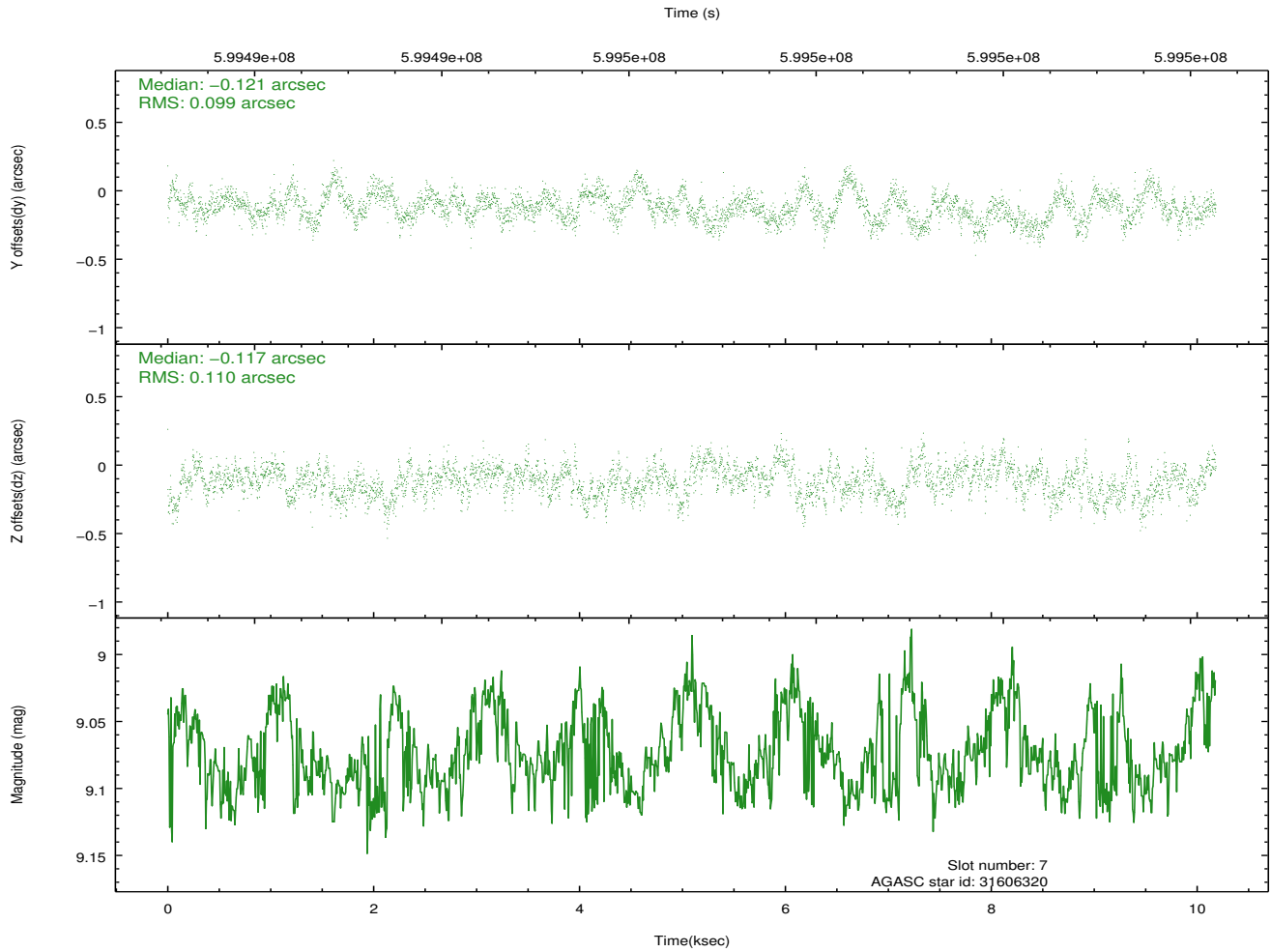
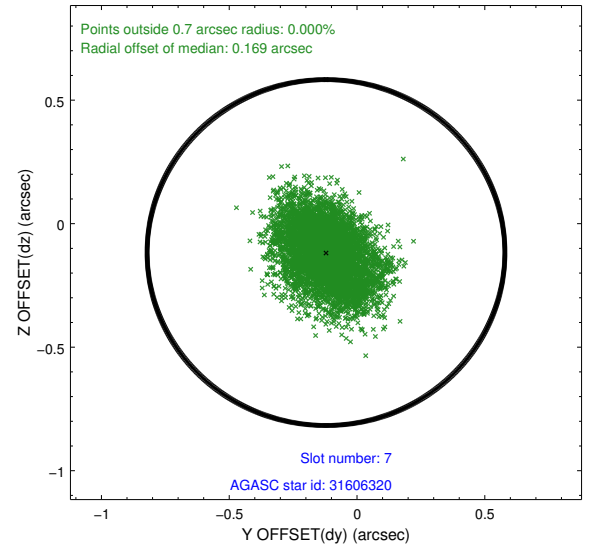
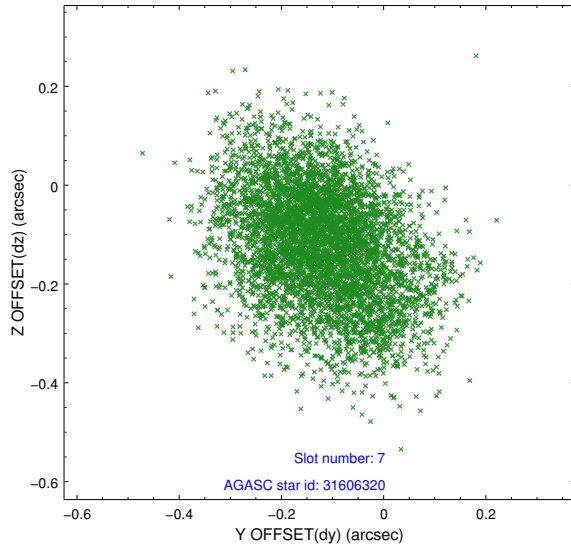
2.4.2 Slot 5



2.4.3 Slot 6

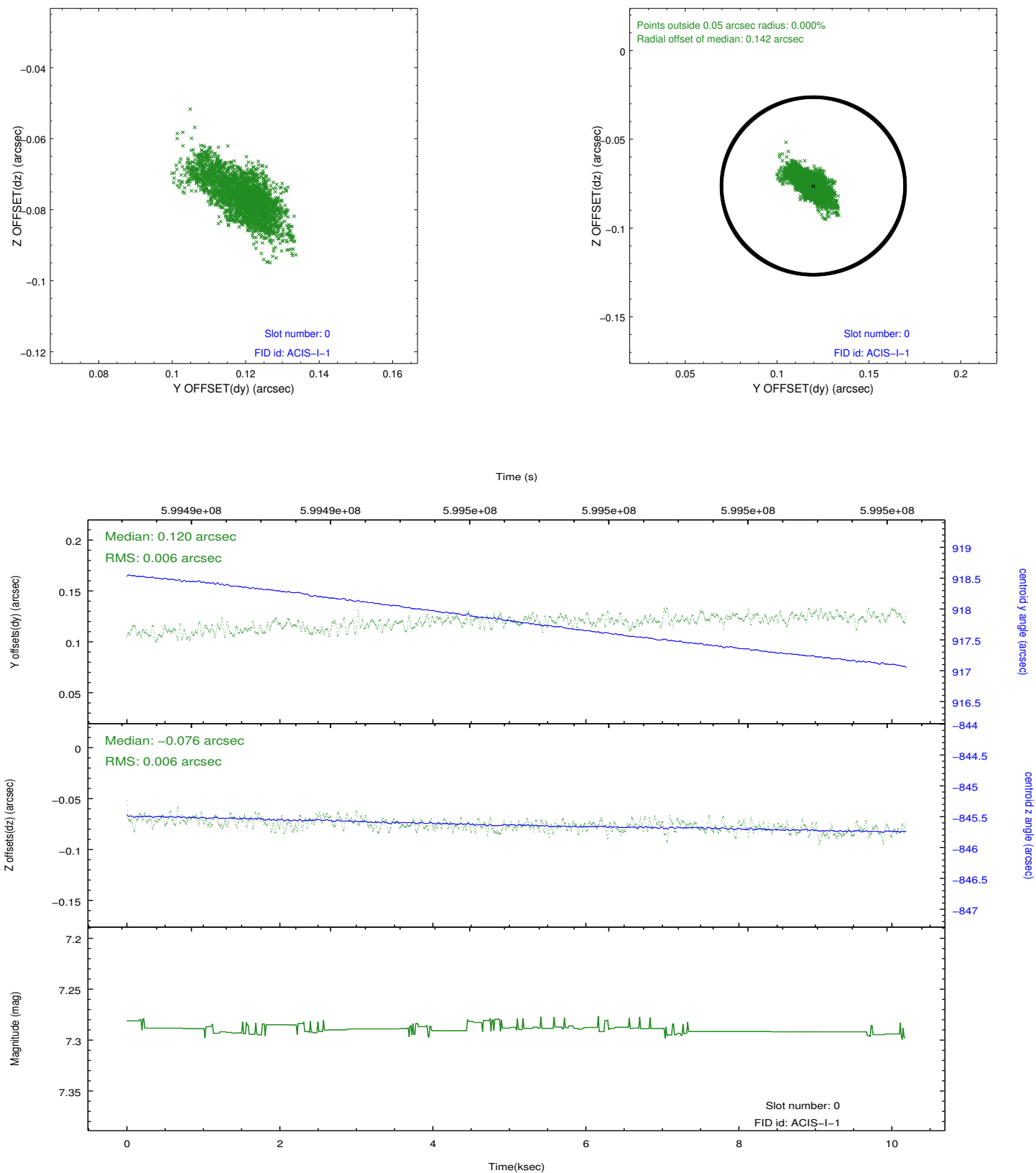


2.4.4 Slot 7

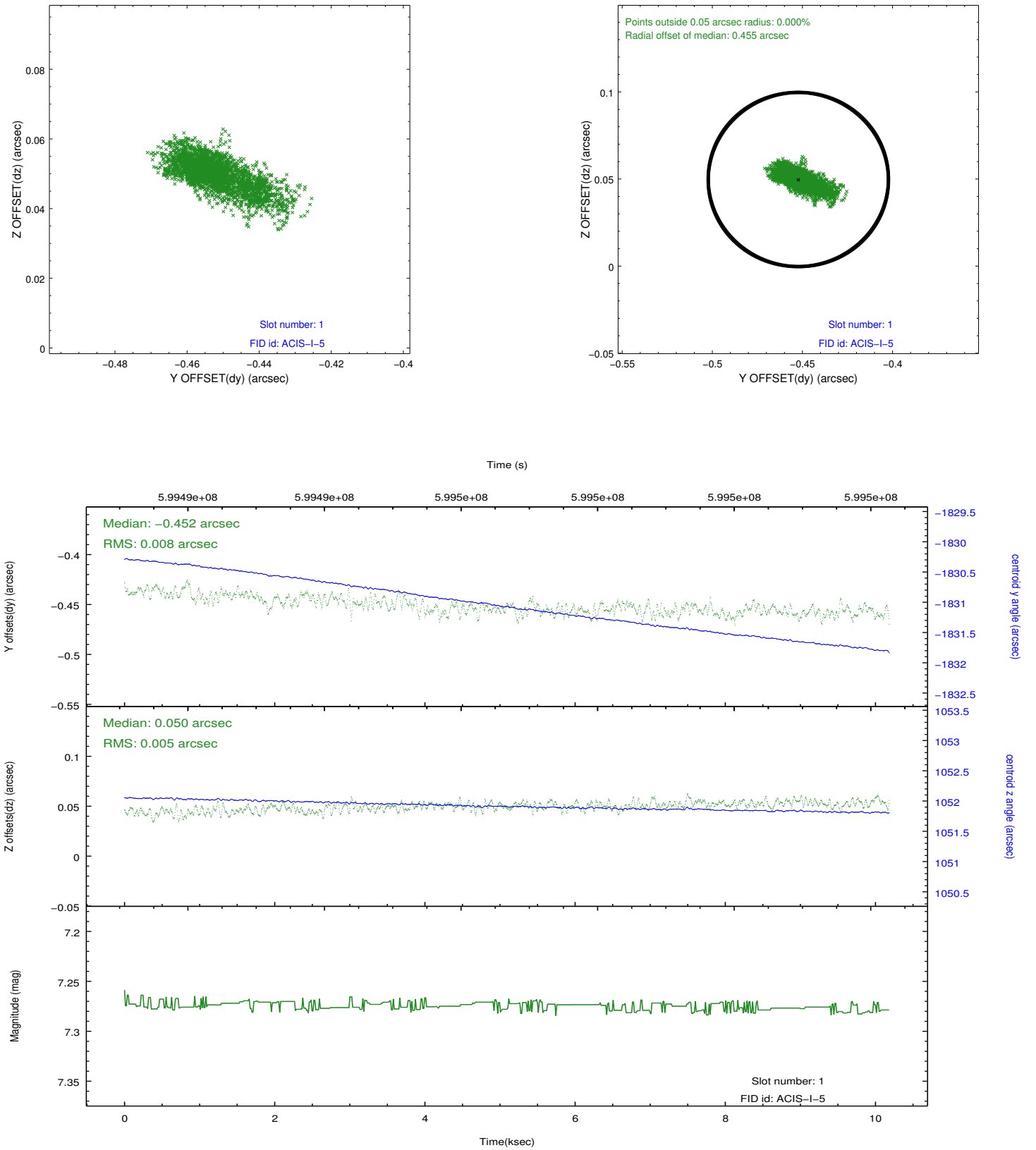


2.5 FID Slots

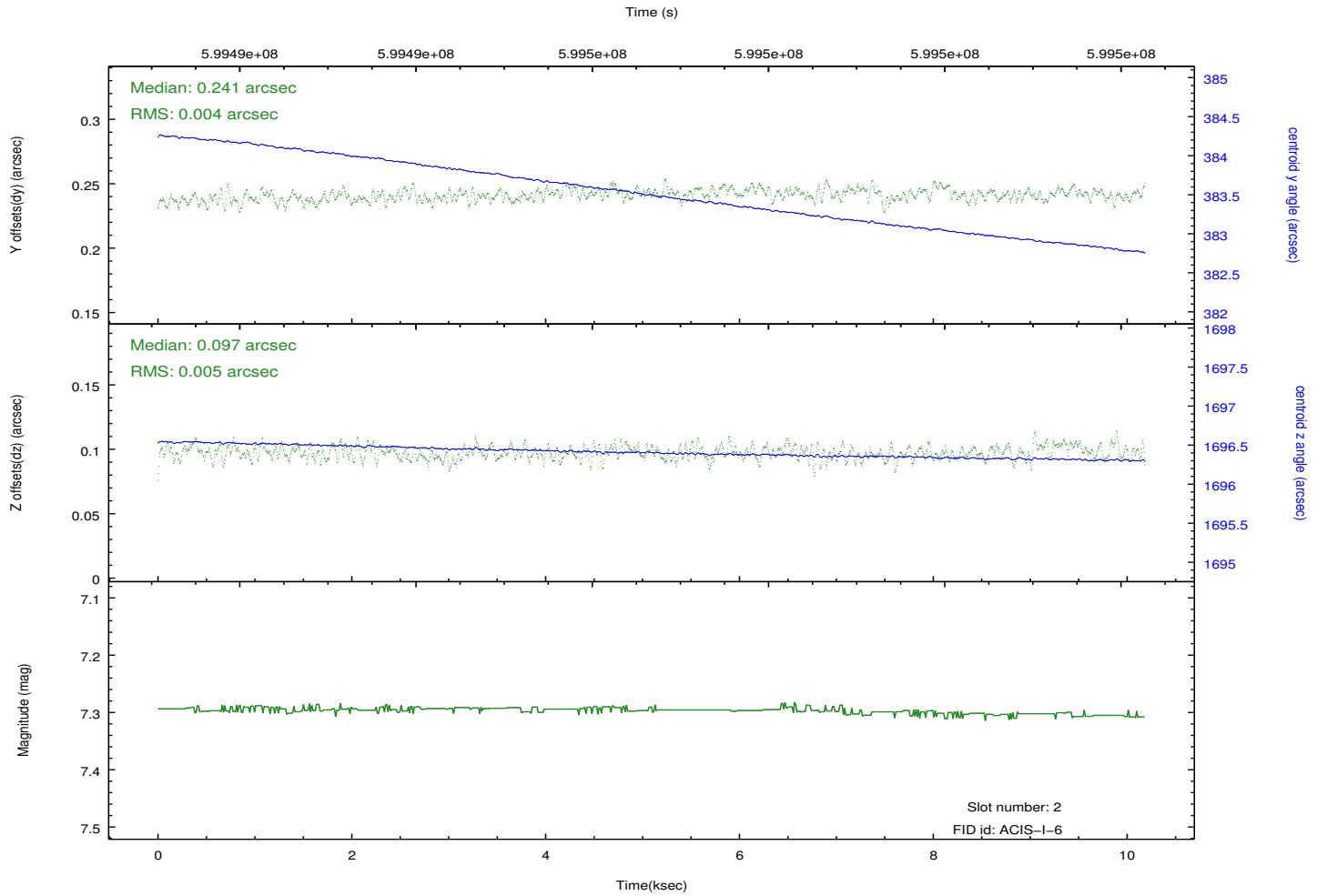
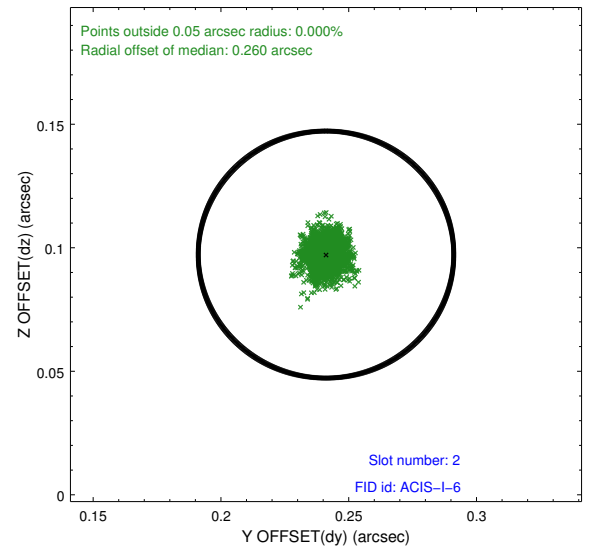
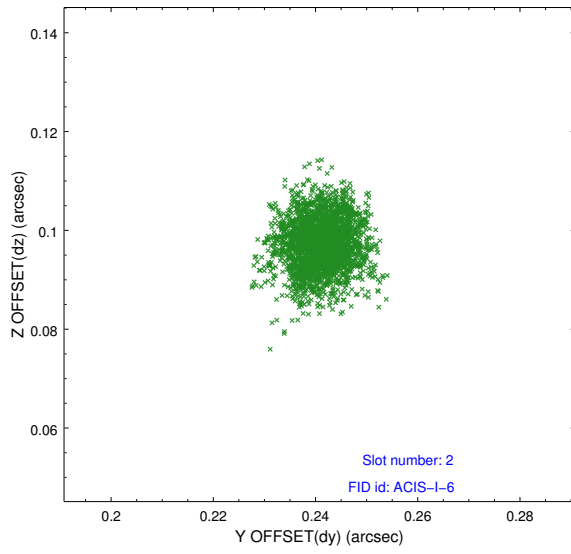
2.5.1 Slot 0



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)	2017.01.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.078100077629

A.2 Comments

Joint proposal with XMM.

The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.