

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18257 - L2 Version 1
Chandra X-Ray Center

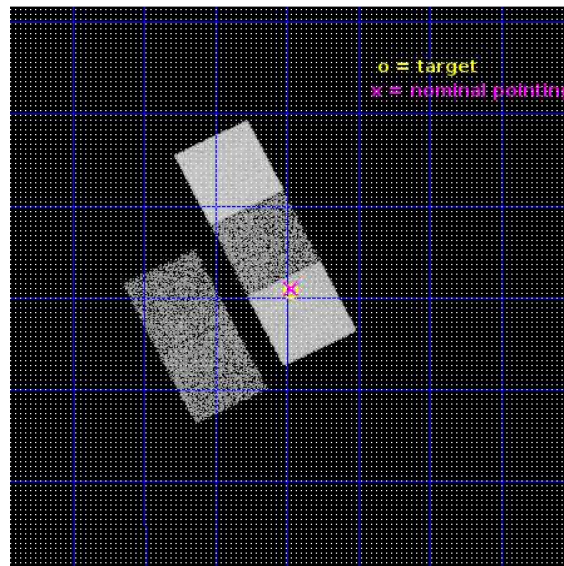
L2 Processing Date : Oct 8 2016

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

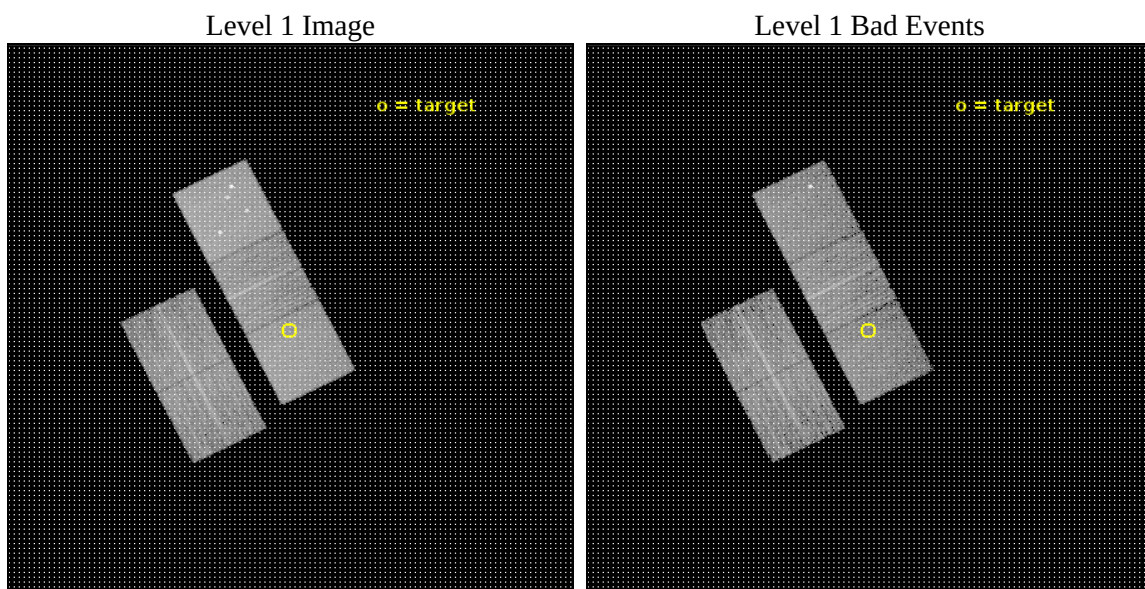
seq_num	801581	Sequence number
obs_id	18257	Observation id
title	Building a complete sample of $z>1$ XXL galaxy clusters	Proposal tit
observer	Dr Ben Maughan	Principal investigator
object	XLSS J022059.0-043921	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	35.245	Observer's specified target RA [deg]
dec_targ	-4.656	Observer's specified target Dec [deg]
ra_nom	35.243135706935	Nominal RA [deg]
dec_nom	-4.6505993317207	Nominal Dec [deg]
roll_nom	63.470412252504	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10059.500077486	Sum of GTIs [s]
livetime	9928.0653032775	Livetime [s]
ontime2	10059.500077486	Sum of GTIs [s]
ontime3	10059.500077486	Sum of GTIs [s]
ontime5	10059.500077486	Sum of GTIs [s]
ontime6	10059.500077486	Sum of GTIs [s]
ontime7	10059.500077486	Sum of GTIs [s]
l2events	106316	Number of level 2 events



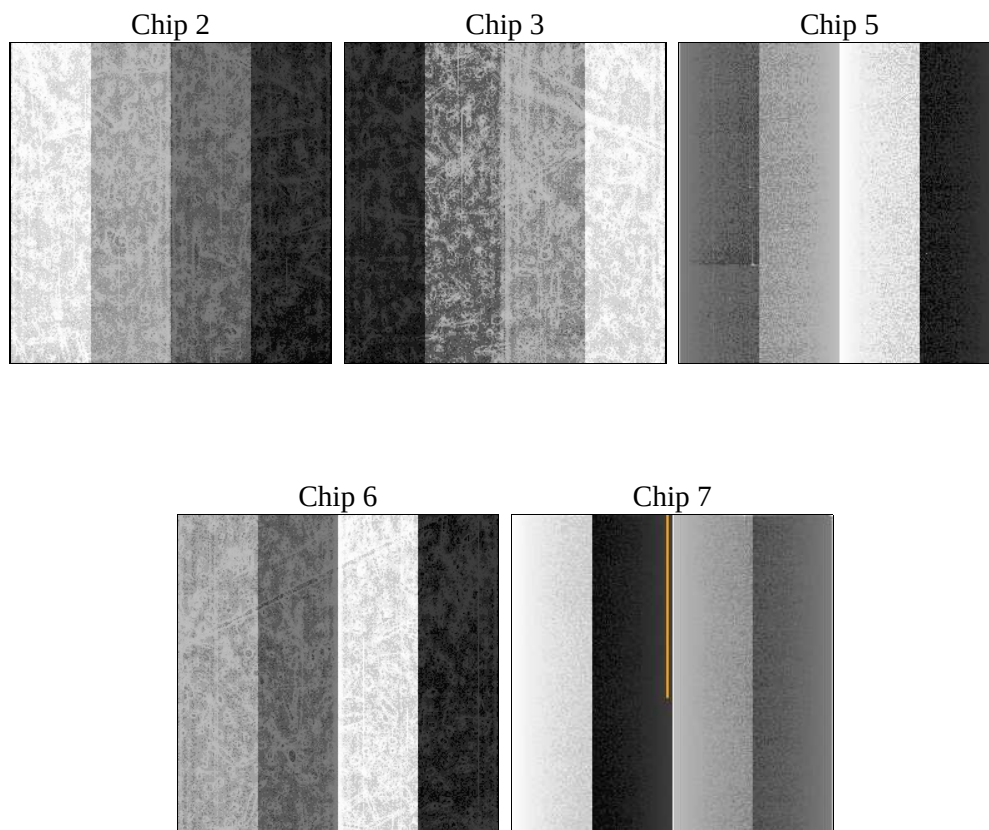
2 OBI

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	10.5.1.1	Processing system revision	ontime	10059.500077486	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	10059.500077486	Sum of GTIs [s]
date	2016-10-09T01:36:10	Date and time of file creation	ontime3	10059.500077486	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	10059.500077486	Sum of GTIs [s]
			ontime6	10059.500077486	Sum of GTIs [s]
			ontime7	10059.500077486	Sum of GTIs [s]
			l1events	403831	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	66056	64939	114730	69982	88124
rejected events	58800	57868	58540	62074	49531
rejected %	89%	89%	51%	88%	56%

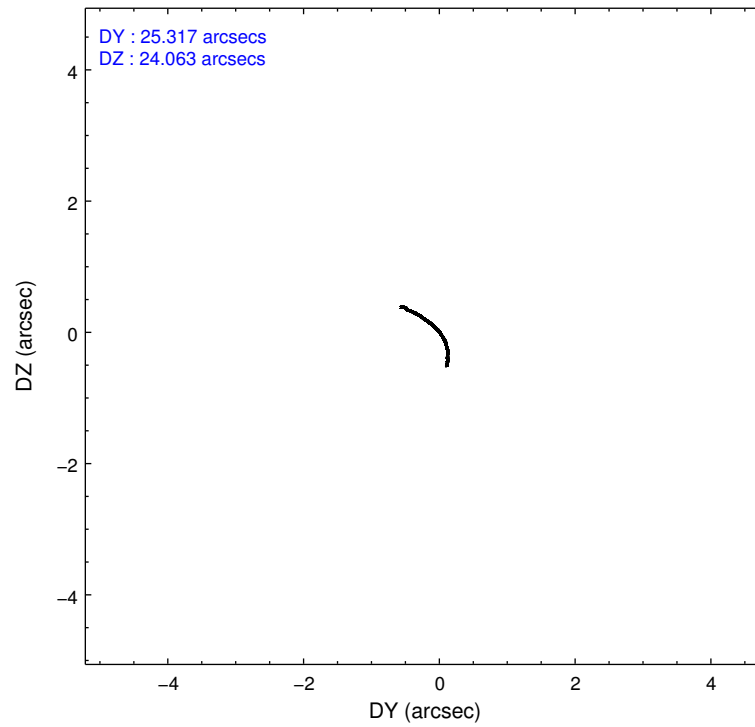
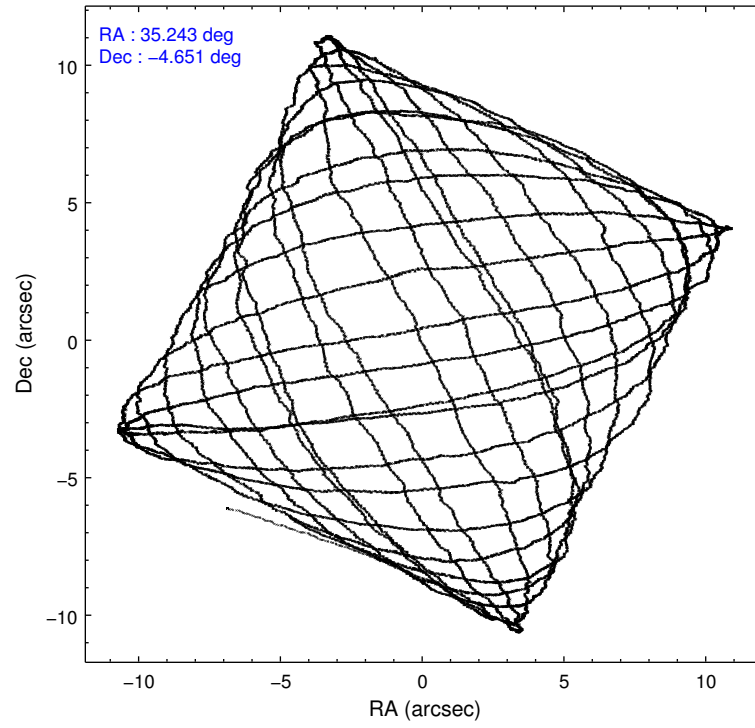
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	2439	2567	7773	2640	3328
	3%	3%	6%	3%	3%
grade 1 events	40	37	217	30	128
	0%	0%	0%	0%	0%
grade 2 events	1808	1503	16685	1886	8083
	2%	2%	14%	2%	9%
grade 3 events	748	782	1624	796	3065
	1%	1%	1%	1%	3%
grade 4 events	778	769	1721	801	3069
	1%	1%	1%	1%	3%
grade 5 events	2722	3303	7818	3337	8927
	4%	5%	6%	4%	10%
grade 6 events	1485	1451	28412	1788	21057
	2%	2%	24%	2%	23%
grade 7 events	56036	54527	50480	58704	40467
	84%	83%	43%	83%	45%

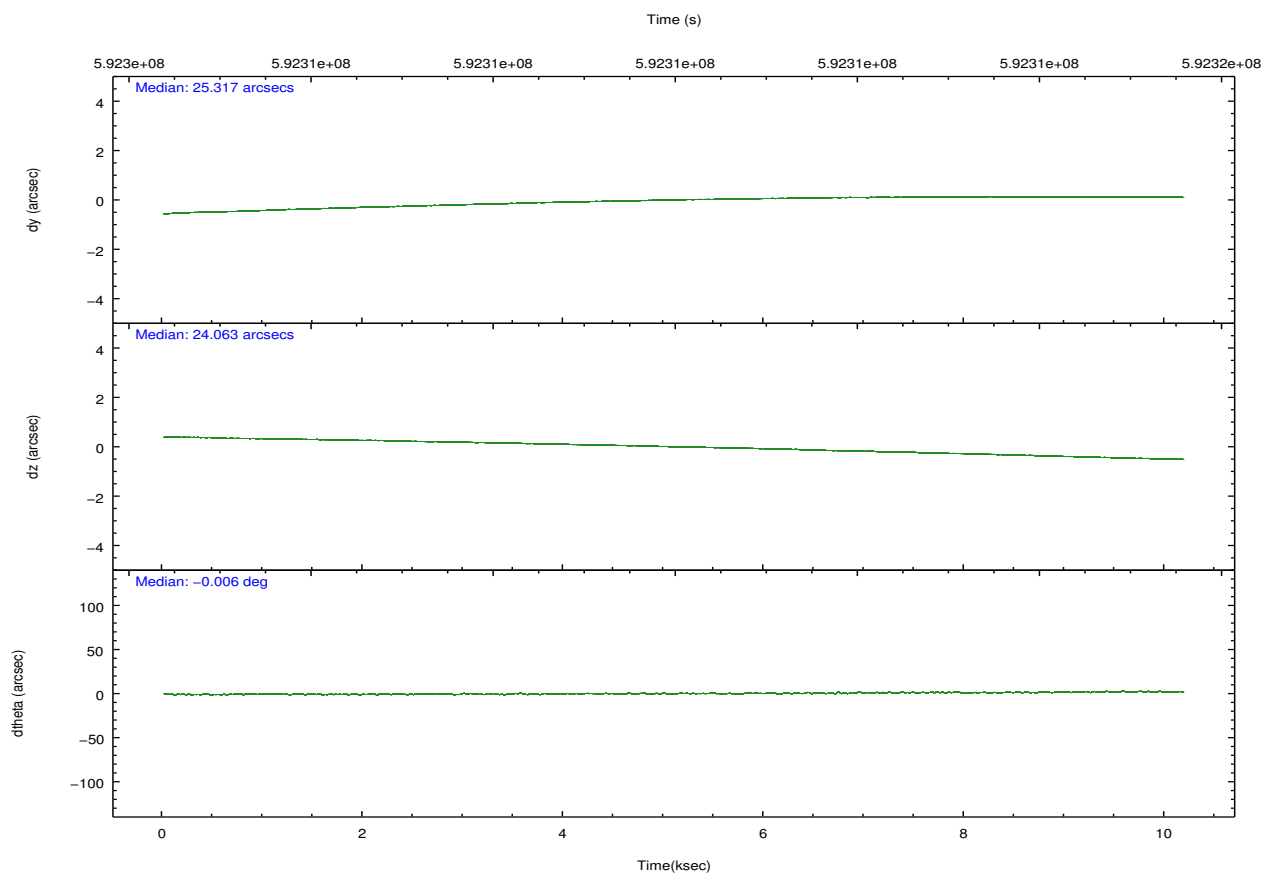
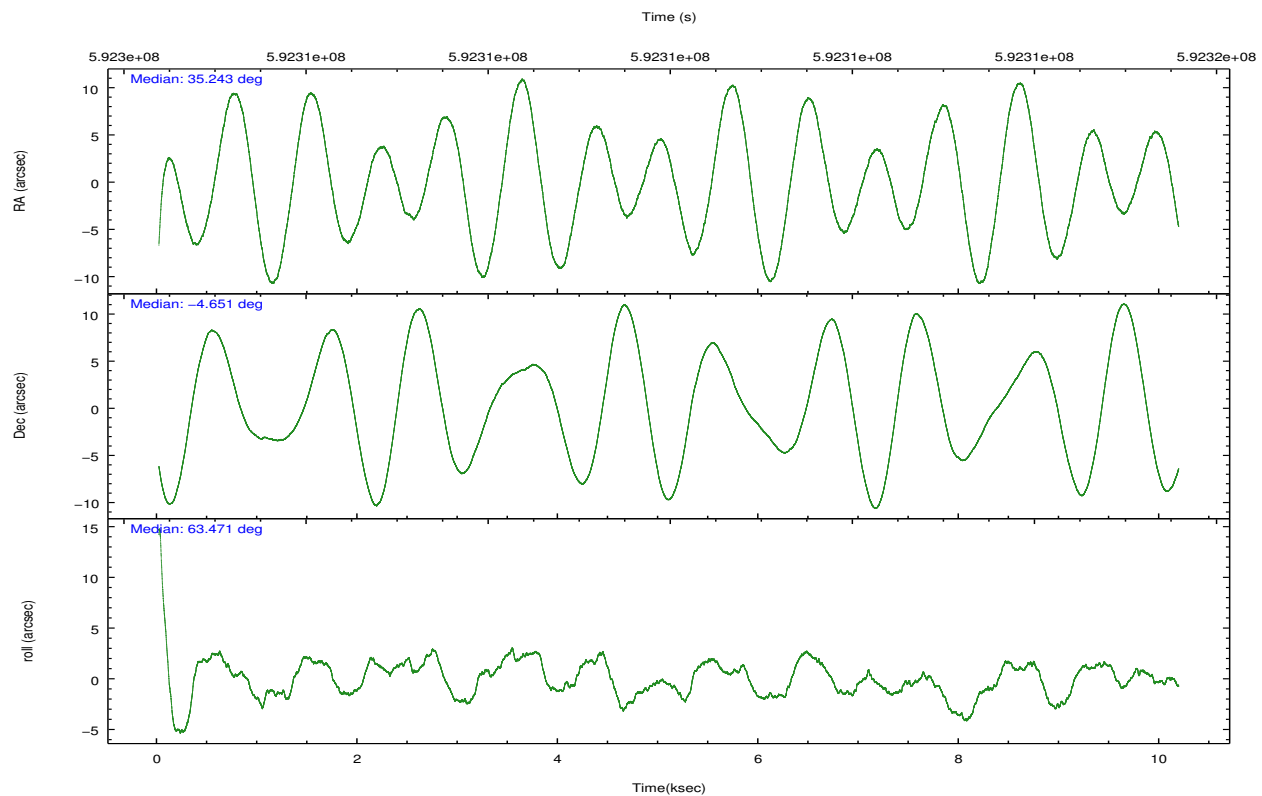
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23567	ACIS-23567
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	35.245170	35.24313570693458
[deg] Pointing Dec	-4.677931	-4.650599331720701
[deg] Pointing Roll	63.313927	63.47041225250354
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	592305095.184000	592304098.8412499
Observation start date	2016-10-08T09:10:27	2016-10-08T08:54:58
[s] Observation end time (MET)	592315095.184000	592315385.6294
Observation end date	2016-10-08T11:57:07	2016-10-08T12:03:05
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
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



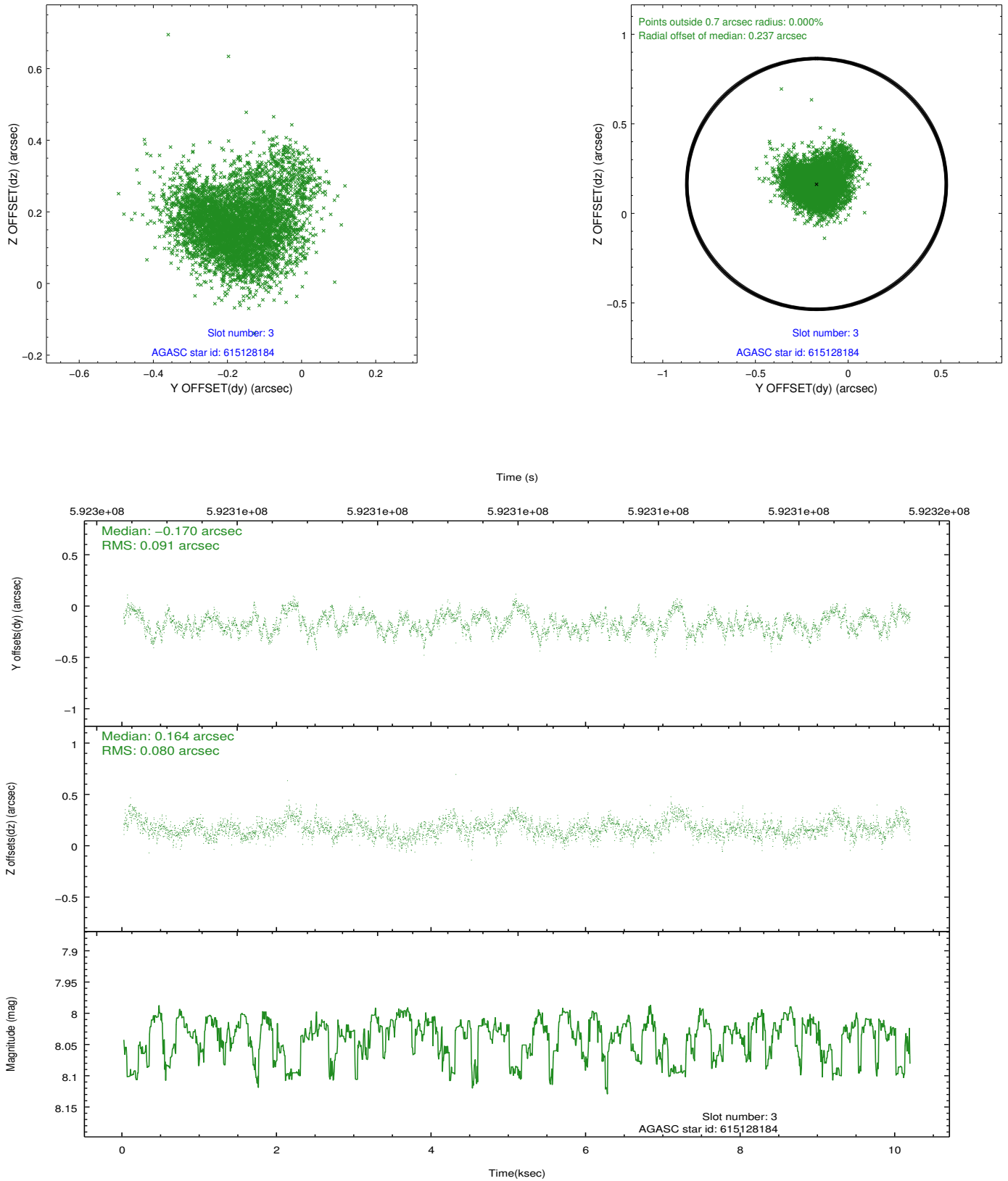


Slot Statistics

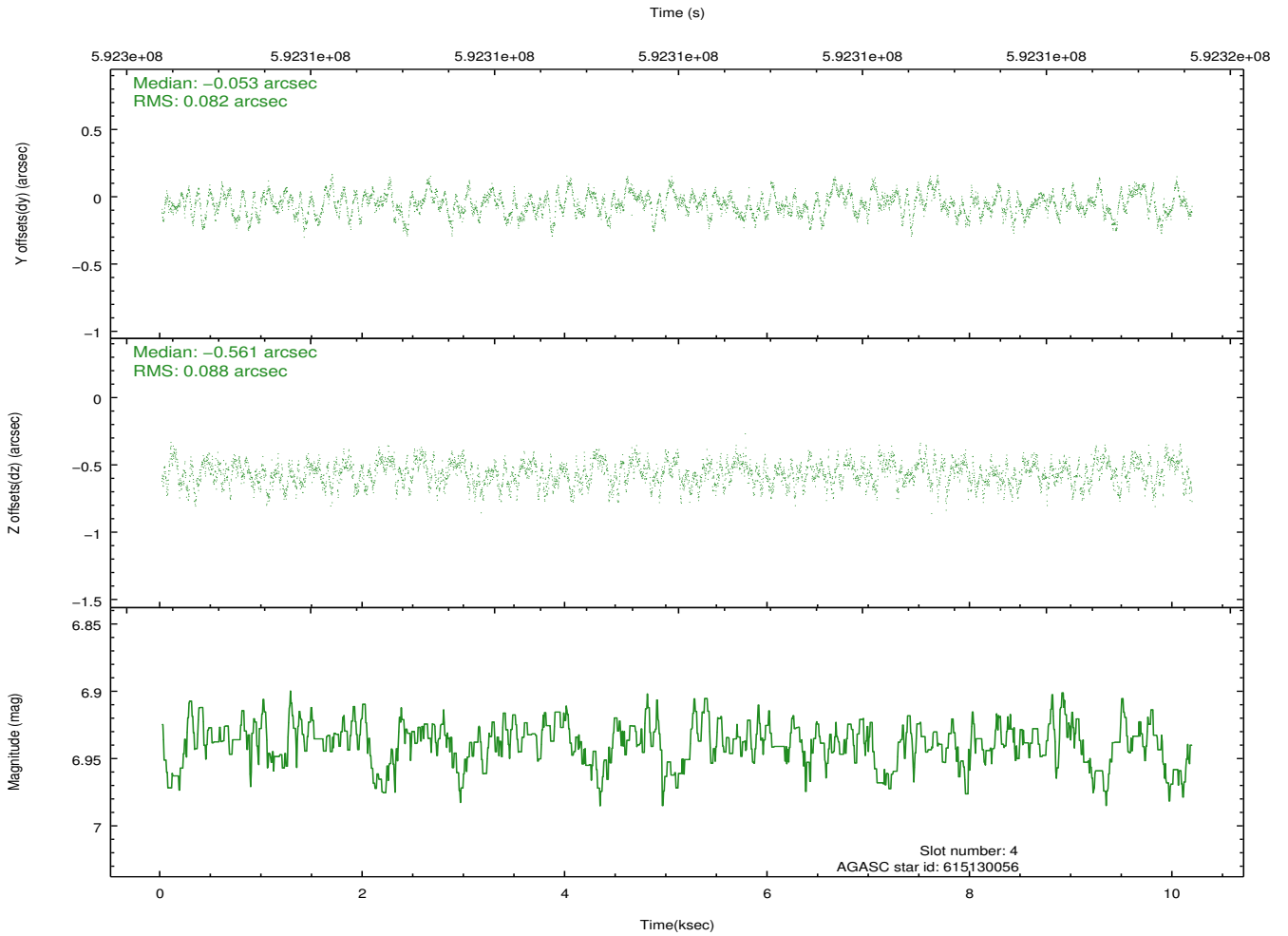
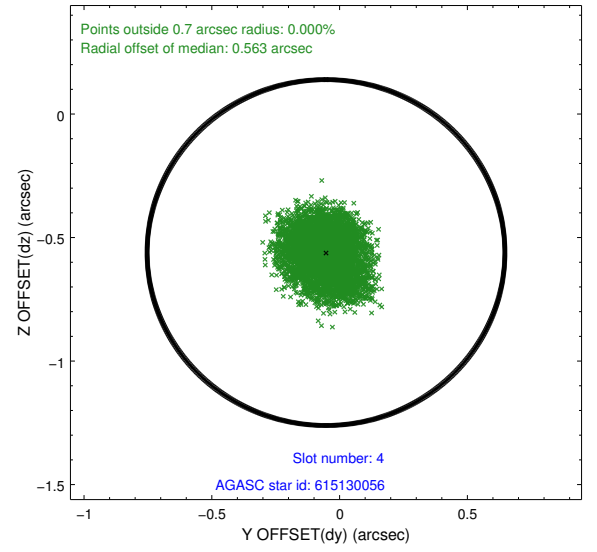
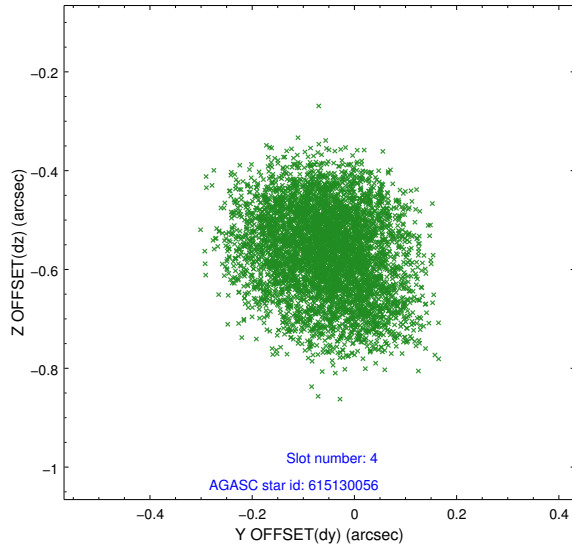
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.97	2482	-0.304	-0.104	0.015	0.024	0.000000	0.000000	-778.74	-1745.74
1	FID		ACIS-S-4	7.07	2482	0.603	0.174	0.007	0.012	0.000000	0.000000	2135.15	162.56
2	FID		ACIS-S-5	7.10	2483	-0.331	-0.061	0.013	0.021	0.000000	0.000000	-1831.00	156.47
3	GUIDE	used	615128184	8.03	4963	-0.170	0.164	0.127	0.213	34.627231	-4.869545	-1612.63	1670.37
4	GUIDE	used	615130056	6.94	4964	-0.053	-0.561	0.133	0.199	34.919909	-4.345572	544.32	1580.14
5	GUIDE	used	615256944	9.73	4956	0.266	0.318	0.259	0.388	35.497386	-4.510719	944.47	-537.94
6	GUIDE	used	615256952	9.16	4962	-0.273	-0.078	0.172	0.264	35.229841	-4.099841	1834.91	983.55
7	GUIDE	used	615520664	9.46	4955	0.206	0.150	0.194	0.303	34.931323	-5.027518	-1629.34	440.63

2.4 Star Slots

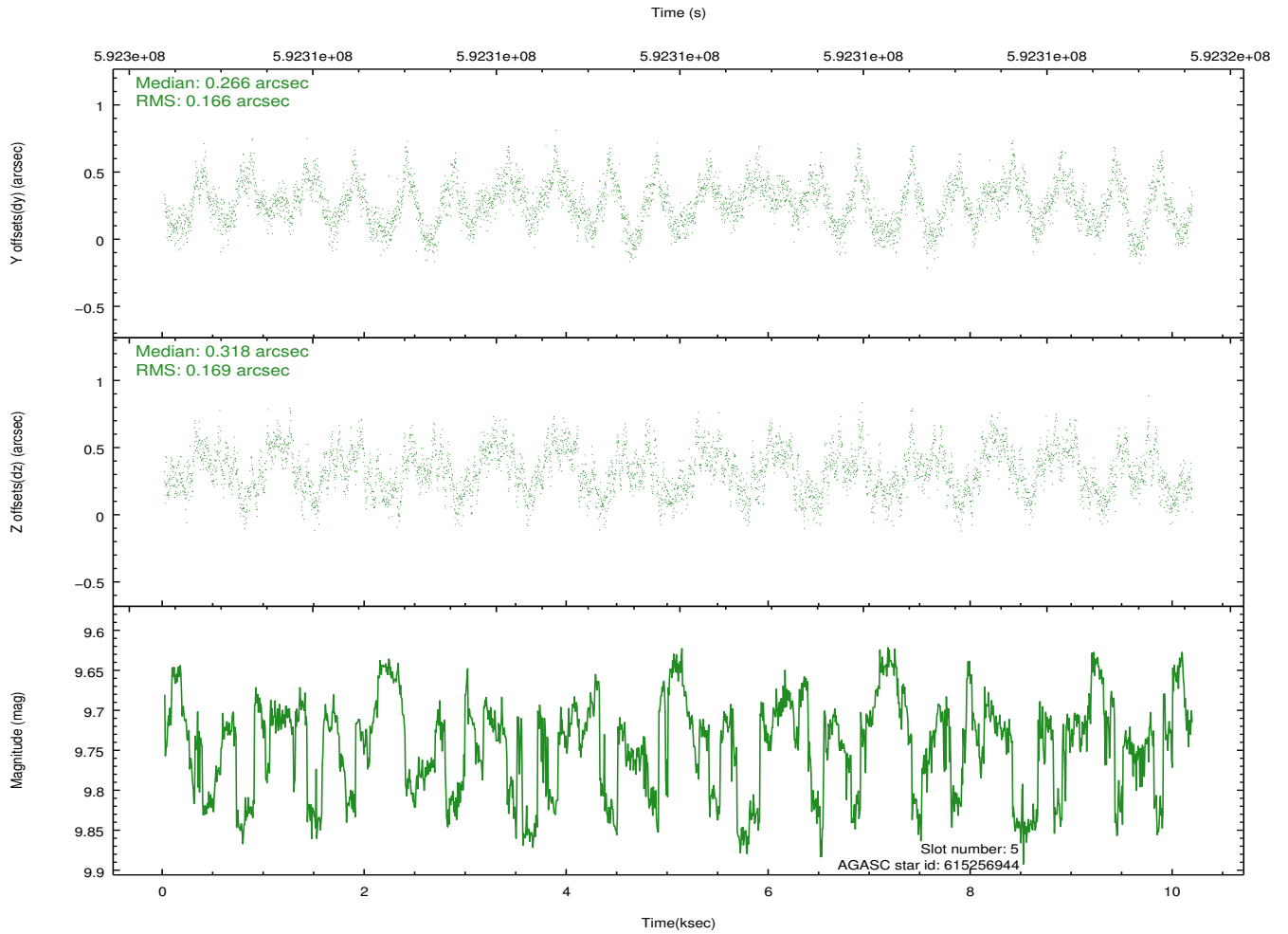
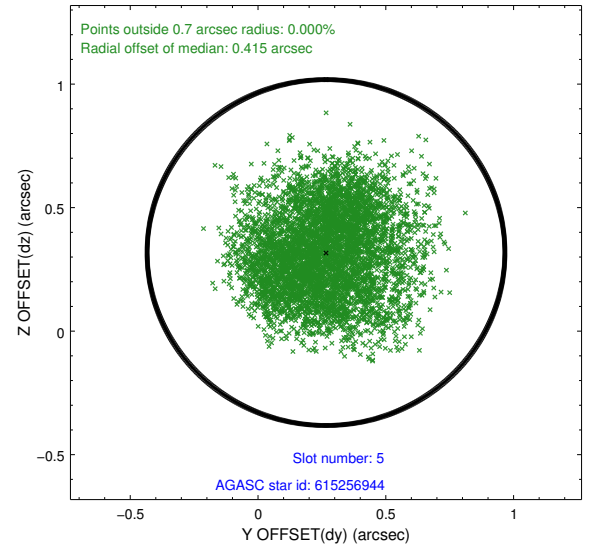
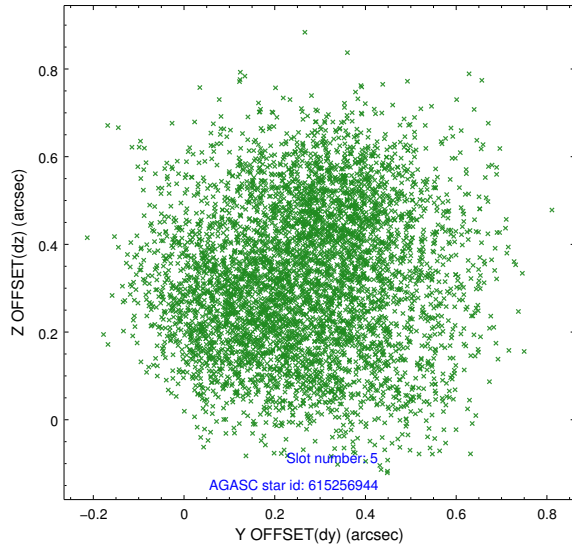
2.4.1 Slot 3



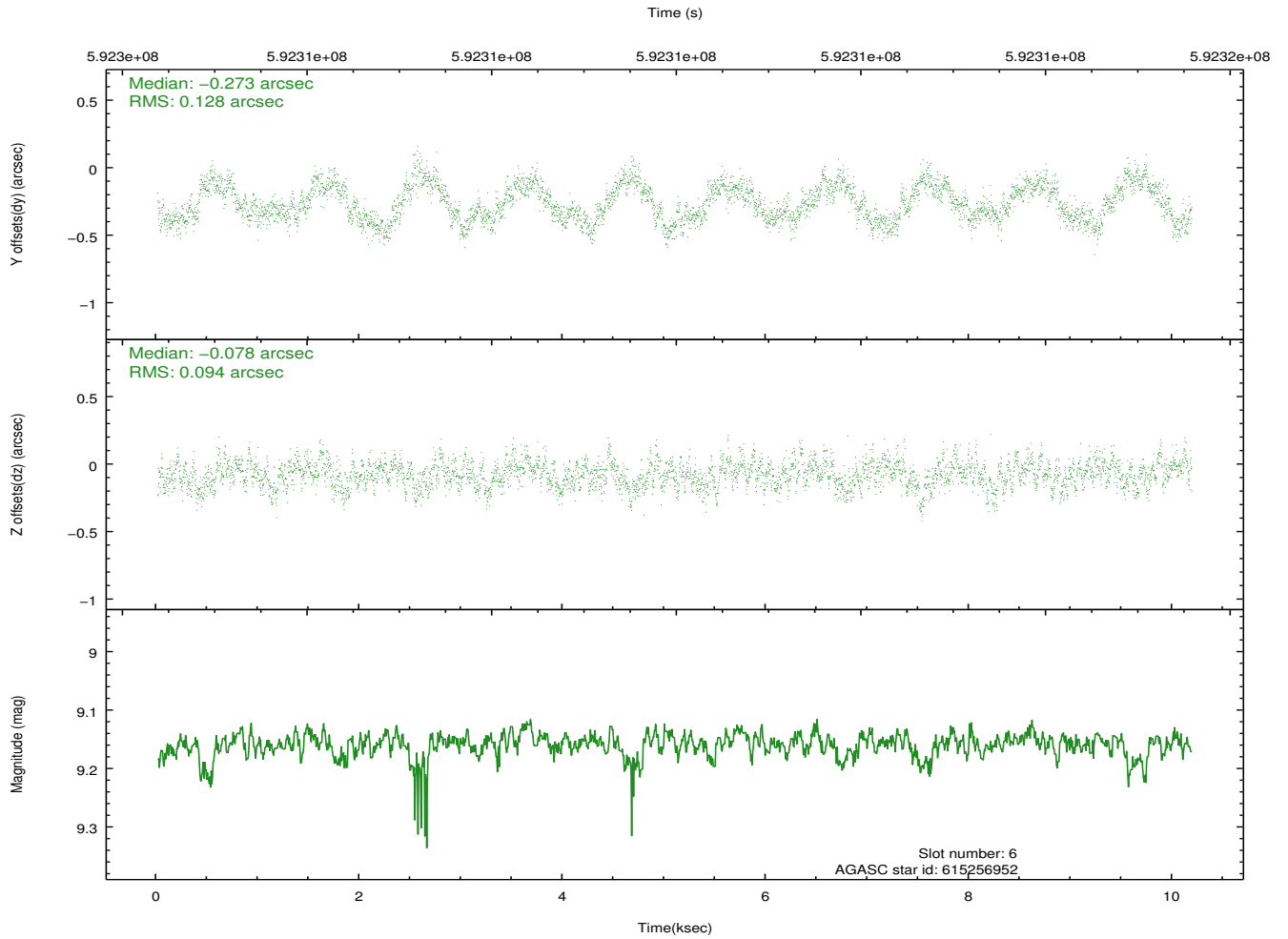
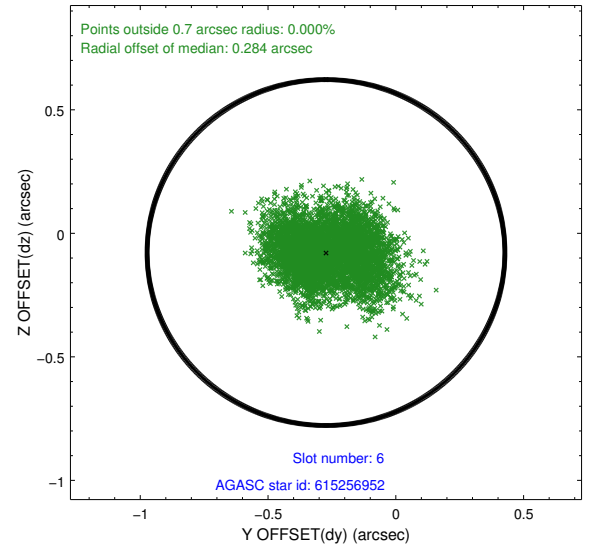
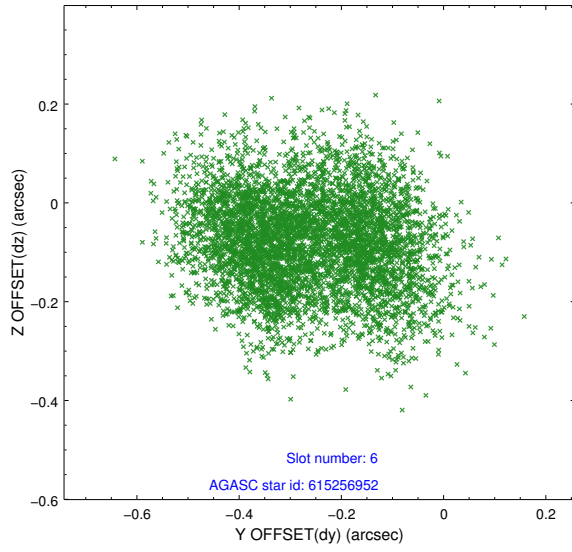
2.4.2 Slot 4



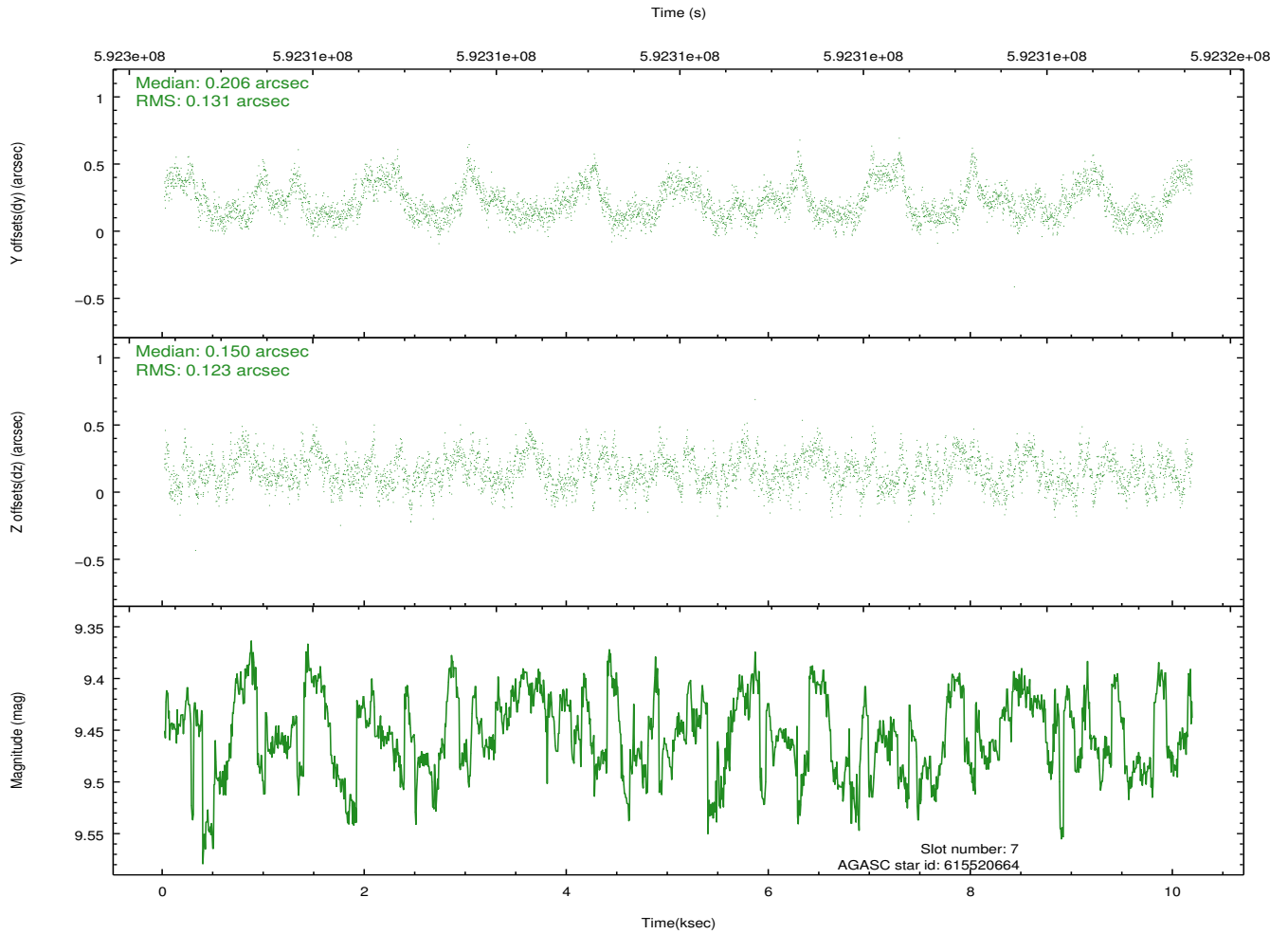
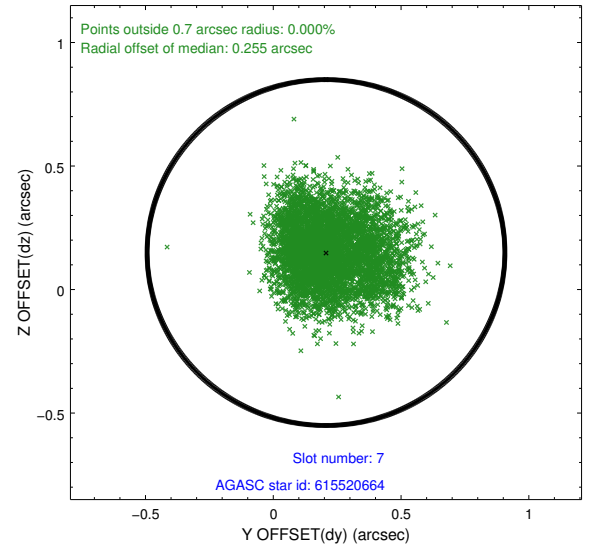
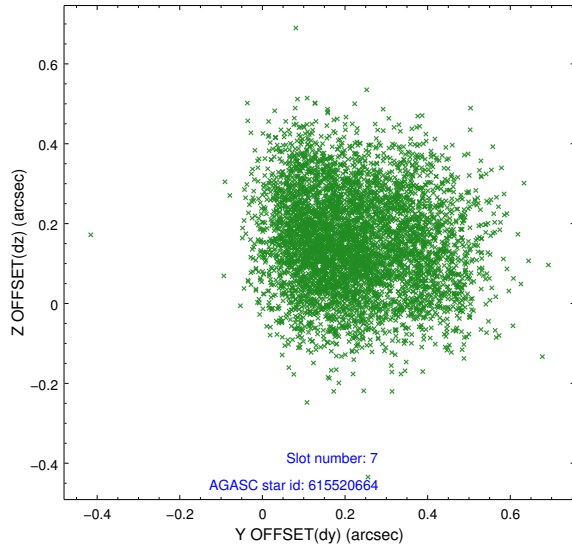
2.4.3 Slot 5



2.4.4 Slot 6

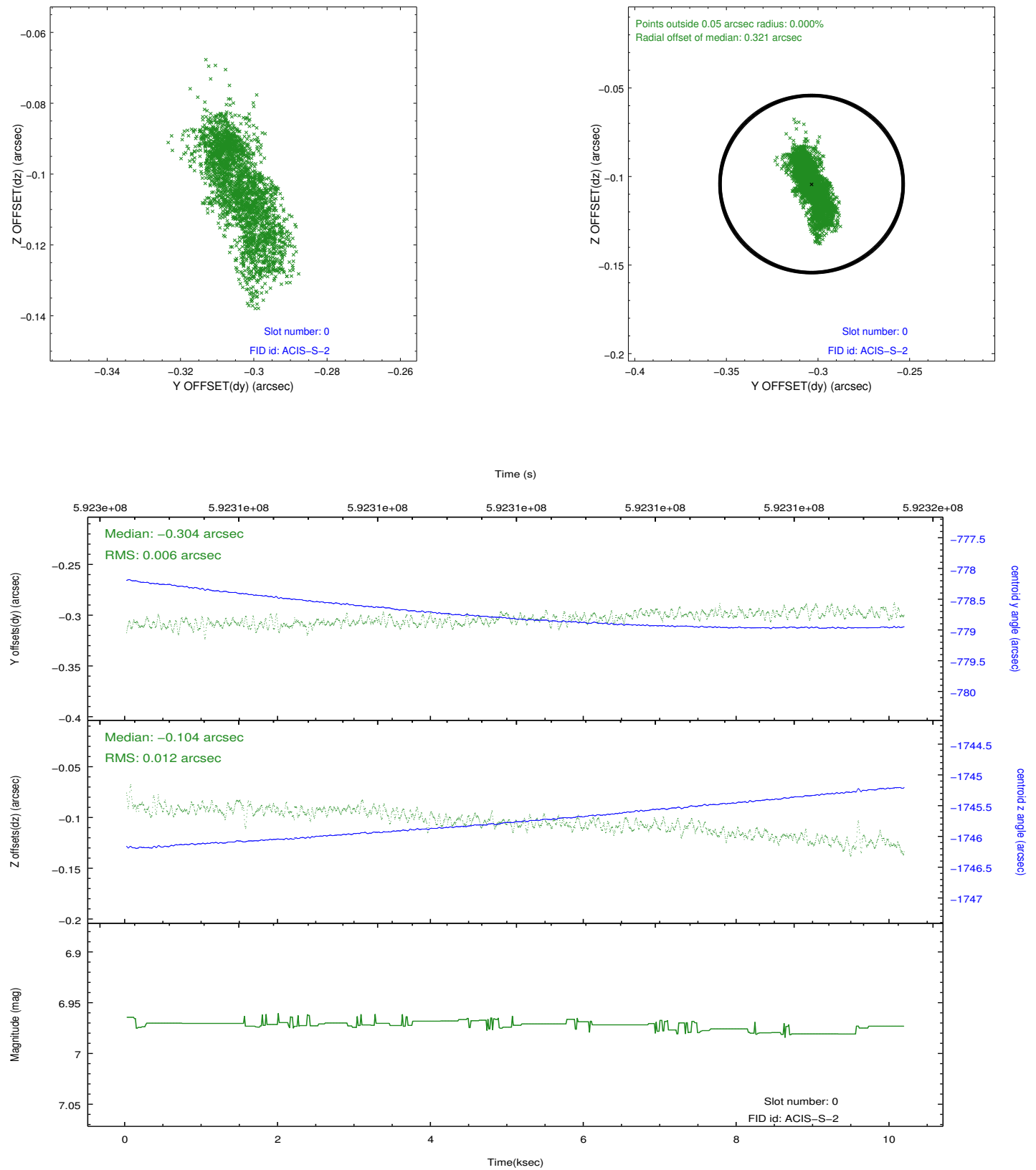


2.4.5 Slot 7

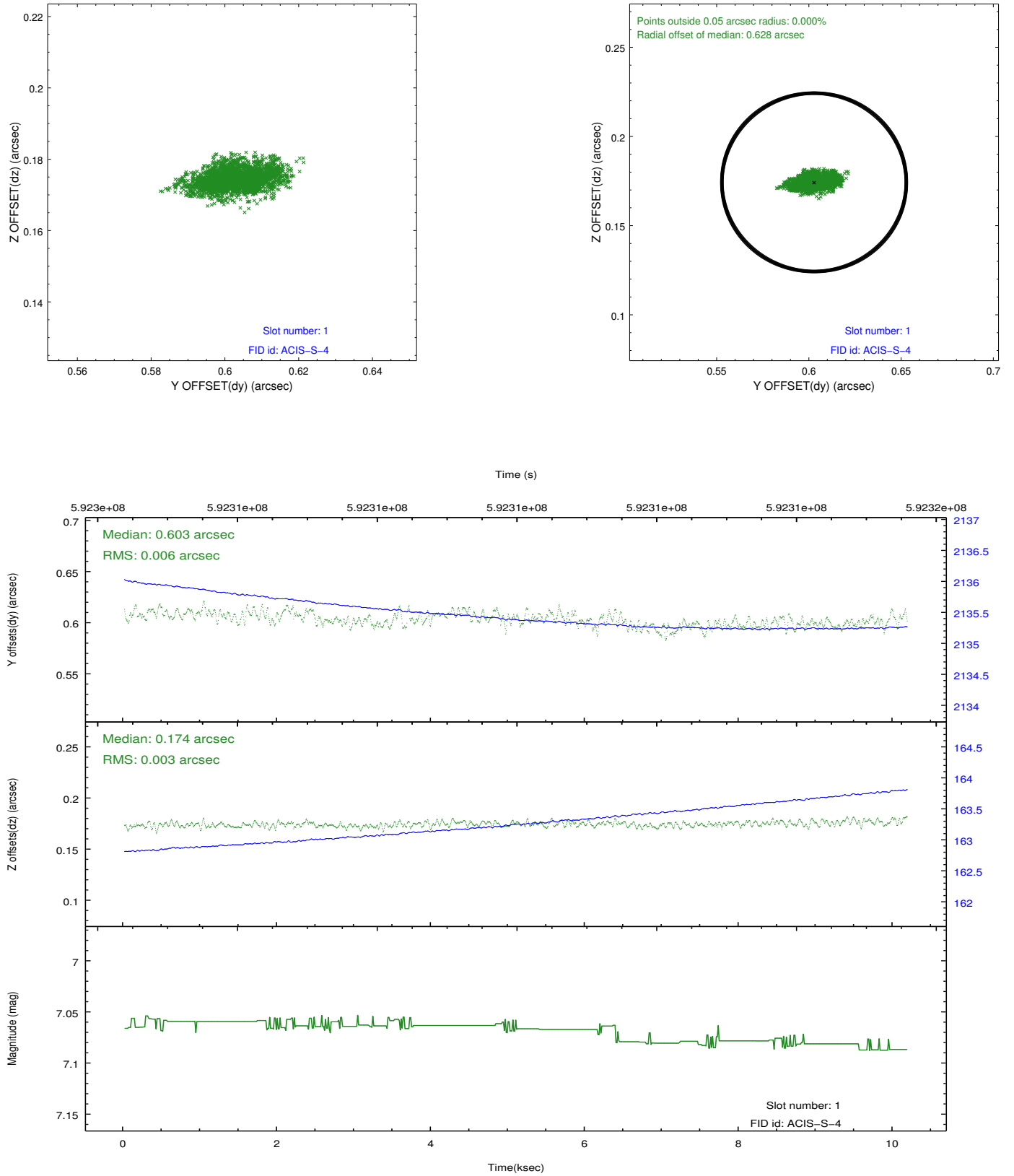


2.5 FID Slots

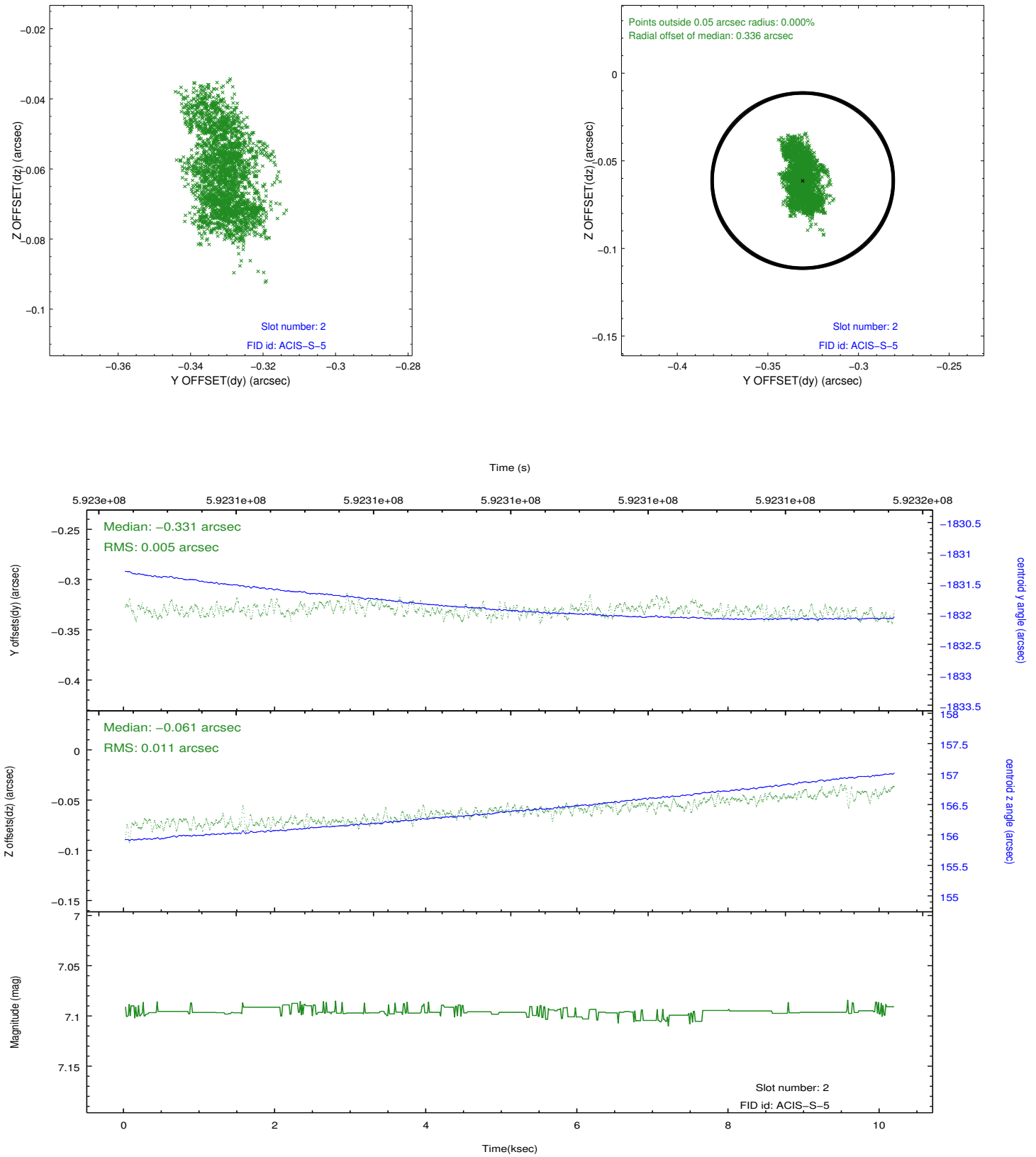
2.5.1 Slot 0



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)	2016.10.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.059500077486

A.2 Comments