

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 17569 - L2 Version 2
Chandra X-Ray Center

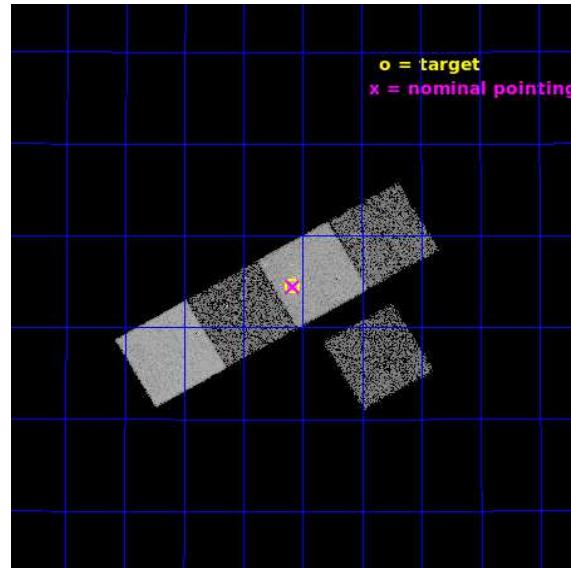
L2 Processing Date : Nov 30 2020

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

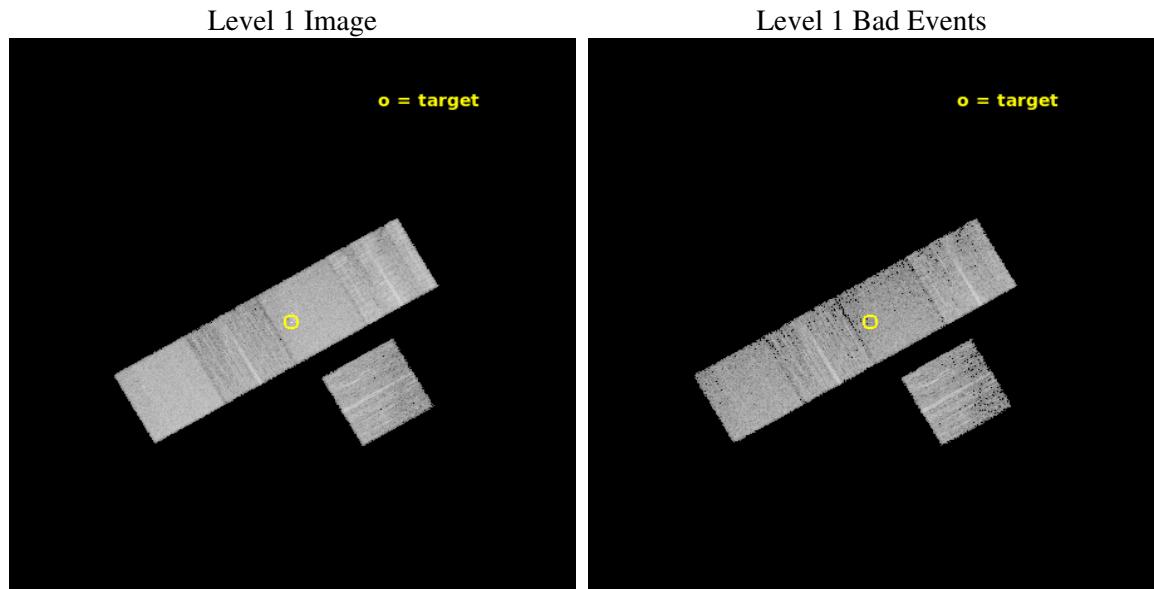
seq_num	502486	Sequence number
obs_id	17569	Observation id
title	The unprecedented metamorphosis of SN2014C	Proposal title
observer	RAFFAELLA MARGUTTI	Principal investigator
object	SN2014C	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	339.273333	Observer's specified target RA [deg]
dec_targ	34.408861	Observer's specified target Dec [deg]
ra_nom	339.27088839051	Nominal RA [deg]
dec_nom	34.407601313539	Nominal Dec [deg]
roll_nom	329.89290024534	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10045.654497027	Sum of GTIs [s]
livetime	9914.4006255205	Livetime [s]
ontime3	10045.531377077	Sum of GTIs [s]
ontime5	10045.613457084	Sum of GTIs [s]
ontime6	10045.572417021	Sum of GTIs [s]
ontime7	10045.654497027	Sum of GTIs [s]
ontime8	10045.490337014	Sum of GTIs [s]
l2events	81189	Number of level 2 events



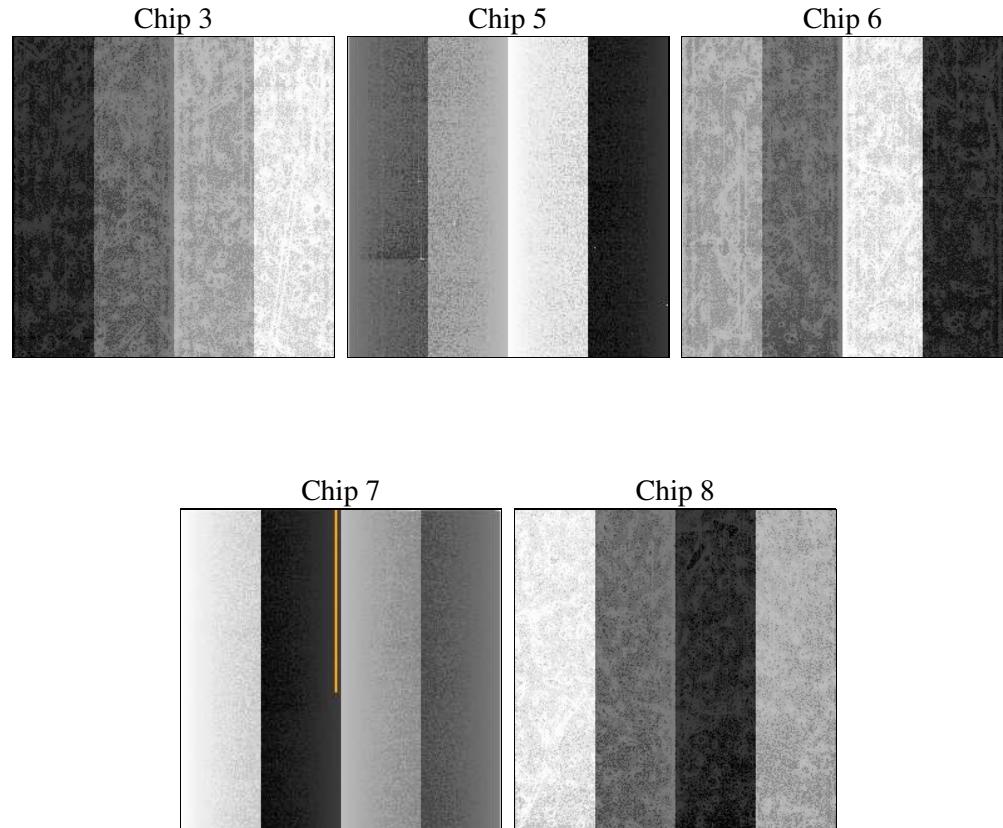
2 OBI

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	10.9.2	Processing system revision	ontime	10045.654497027	Sum of GTIs [s]
caldbver	4.9.3	 	ontime3	10045.531377077	Sum of GTIs [s]
date	2020-11-30T10:57:09	Date and time of file creation	ontime5	10045.613457084	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	10045.572417021	Sum of GTIs [s]
			ontime7	10045.654497027	Sum of GTIs [s]
			ontime8	10045.490337014	Sum of GTIs [s]
			l1events	309788	Number of level 1 events

2.1.4 Events

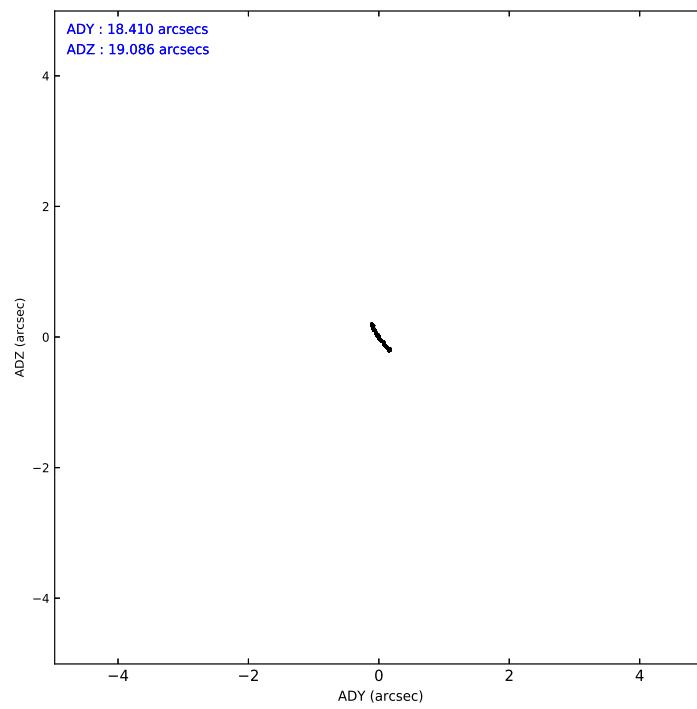
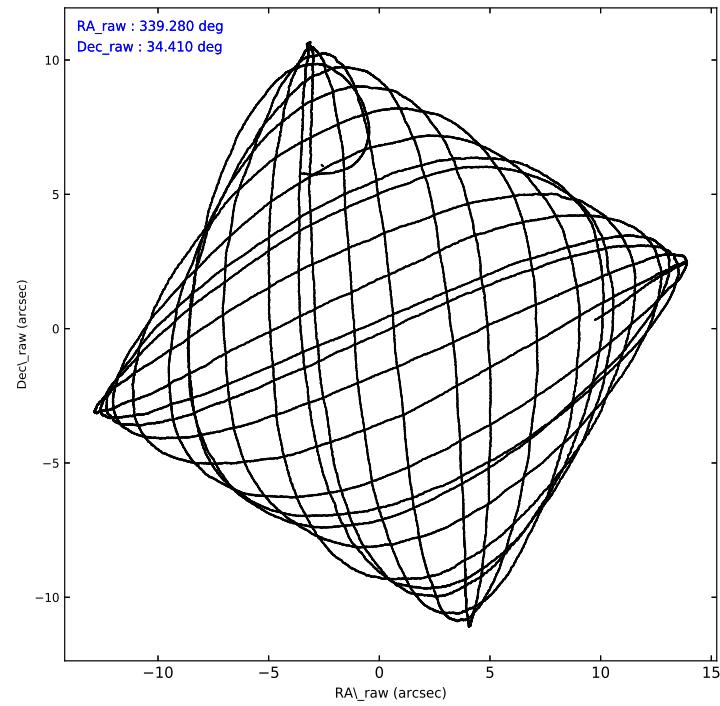
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	46299	77613	48862	65646	71368
rejected events	40884	40959	42671	35823	49169
rejected %	88%	52%	87%	54%	68%

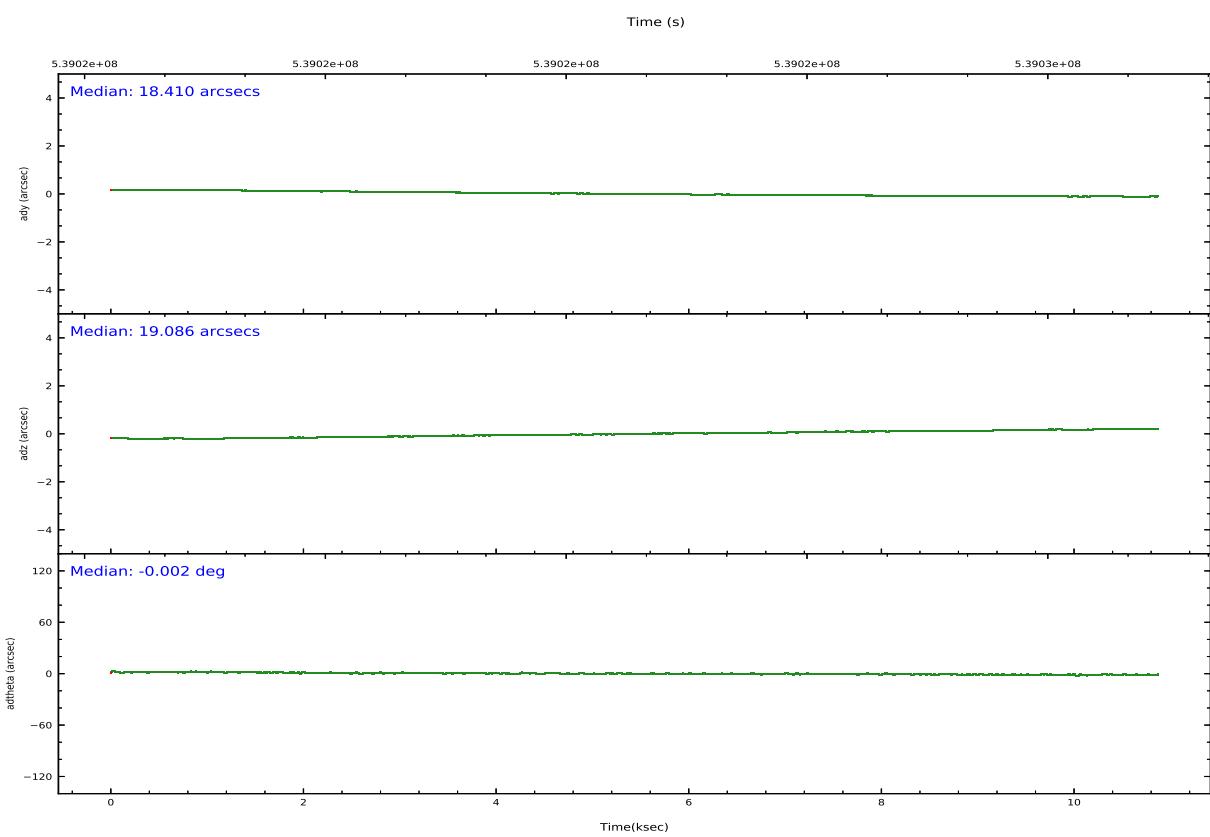
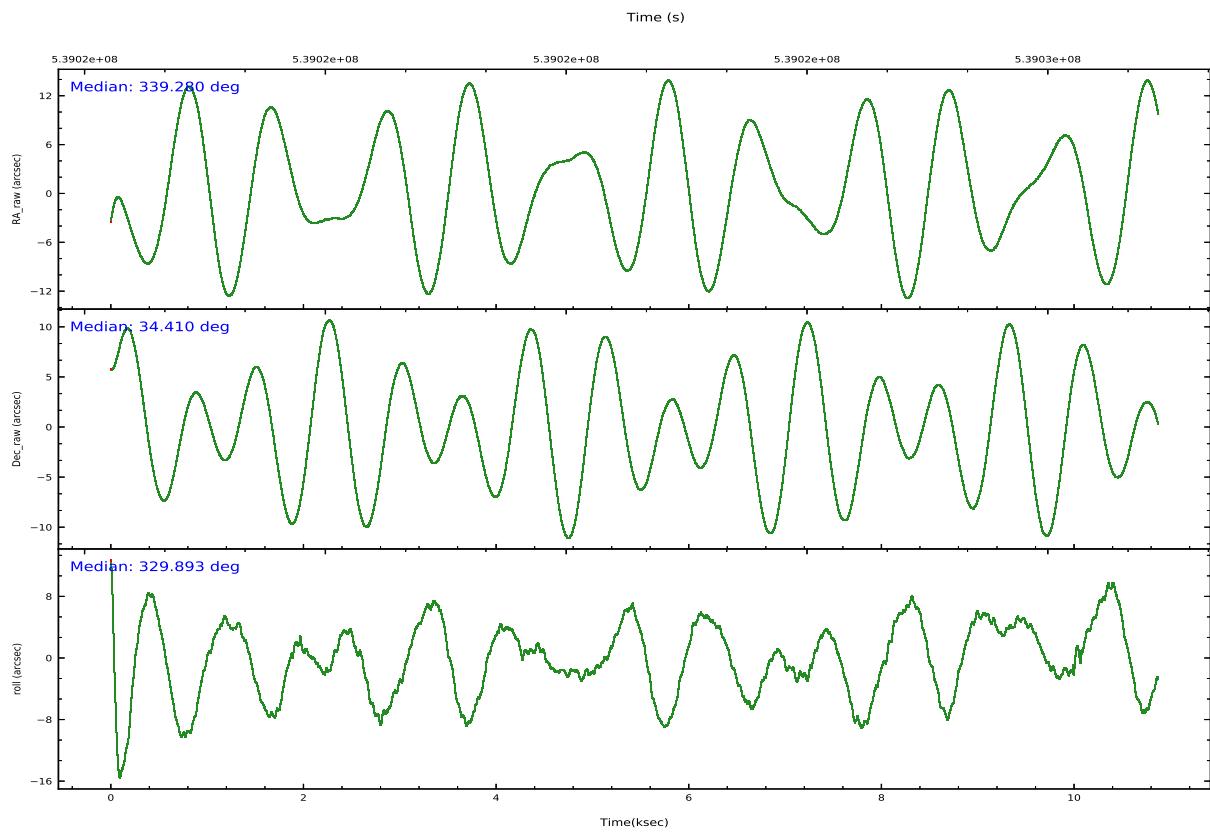
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	2009	2294	2154	2948	6159
	4%	2%	4%	4%	8%
grade 1 events	35	135	28	85	43
	0%	0%	0%	0%	0%
grade 2 events	1157	11431	1440	6159	4972
	2%	14%	2%	9%	6%
grade 3 events	549	1381	603	2583	2633
	1%	1%	1%	3%	3%
grade 4 events	543	1254	570	2638	2404
	1%	1%	1%	4%	3%
grade 5 events	2468	5976	2513	6682	3663
	5%	7%	5%	10%	5%
grade 6 events	1160	20322	1426	15518	6043
	2%	26%	2%	23%	8%
grade 7 events	38378	34820	40128	29033	45451
	82%	44%	82%	44%	63%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-35678	ACIS-35678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	339.246572	339.27088839051	CCD I2 on	N	N
[deg] Pointing Dec	34.409381	34.407601313539	CCD I3 on	O1	Y
[deg] Pointing Roll	329.764871	329.89290024534	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	539018646.184000	539016489.39482	CCD S5 on	N	N
Observation start date	2015-01-30T15:22:59	2015-01-30T14:48:09	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	539028646.184000	539029832.33306	On-chip summing requested	N	N
Observation end date	2015-01-30T18:09:39	2015-01-30T18:30:32	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





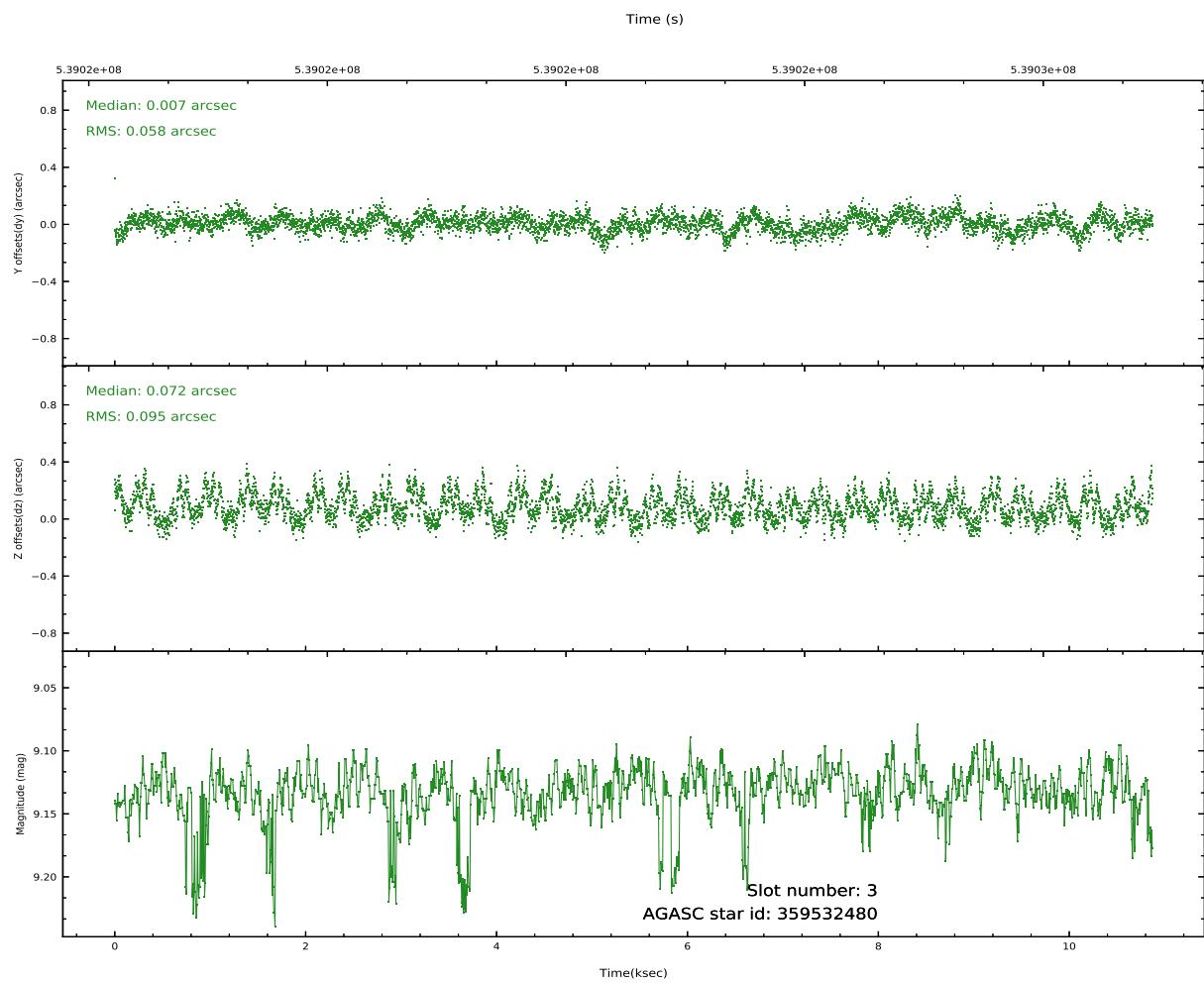
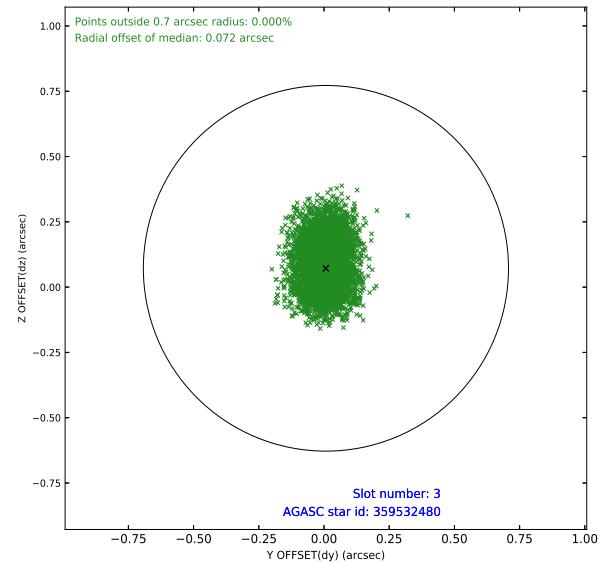
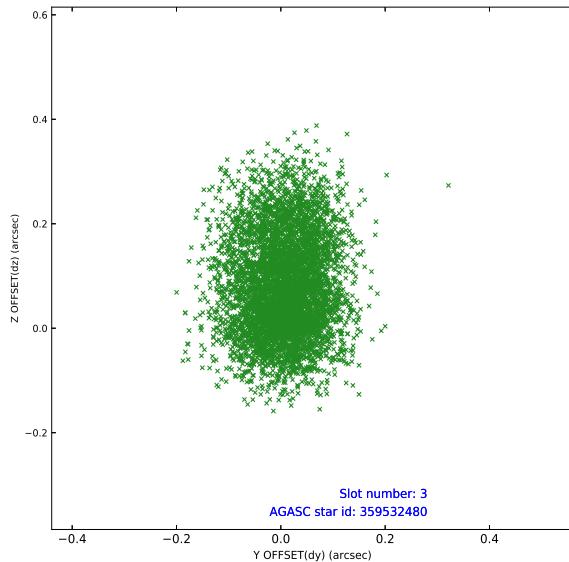
Slot Statistics

st	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.00	2653	1.000	0.202	-0.076	0.007	0.012	0.000000	0.000000	924.65	-1736
1	FID		ACIS-S-4	7.01	2653	1.000	0.101	-0.040	0.007	0.012	0.000000	0.000000	2142.32	167
2	FID		ACIS-S-5	7.02	2653	1.000	-0.330	0.128	0.007	0.014	0.000000	0.000000	-1824.05	161
3	GUIDE	used	359532480	9.13	5300	1.000	0.007	0.072	0.119	0.194	338.355352	34.103802	-1746.12	-2278
4	GUIDE	used	359539912	8.42	5302	1.000	-0.025	0.082	0.106	0.157	339.215941	35.135986	-1395.54	2214
5	GUIDE	used	359541464	8.66	5301	1.000	-0.009	0.015	0.084	0.132	339.073218	34.654496	-888.13	504
6	GUIDE	used	359547944	9.36	5303	1.000	0.032	-0.153	0.129	0.207	338.858049	34.436167	-1046.13	-495
7	GUIDE	used	359540136	8.79	5301	1.000	-0.008	-0.018	0.101	0.163	339.014971	34.618247	-971.85	304

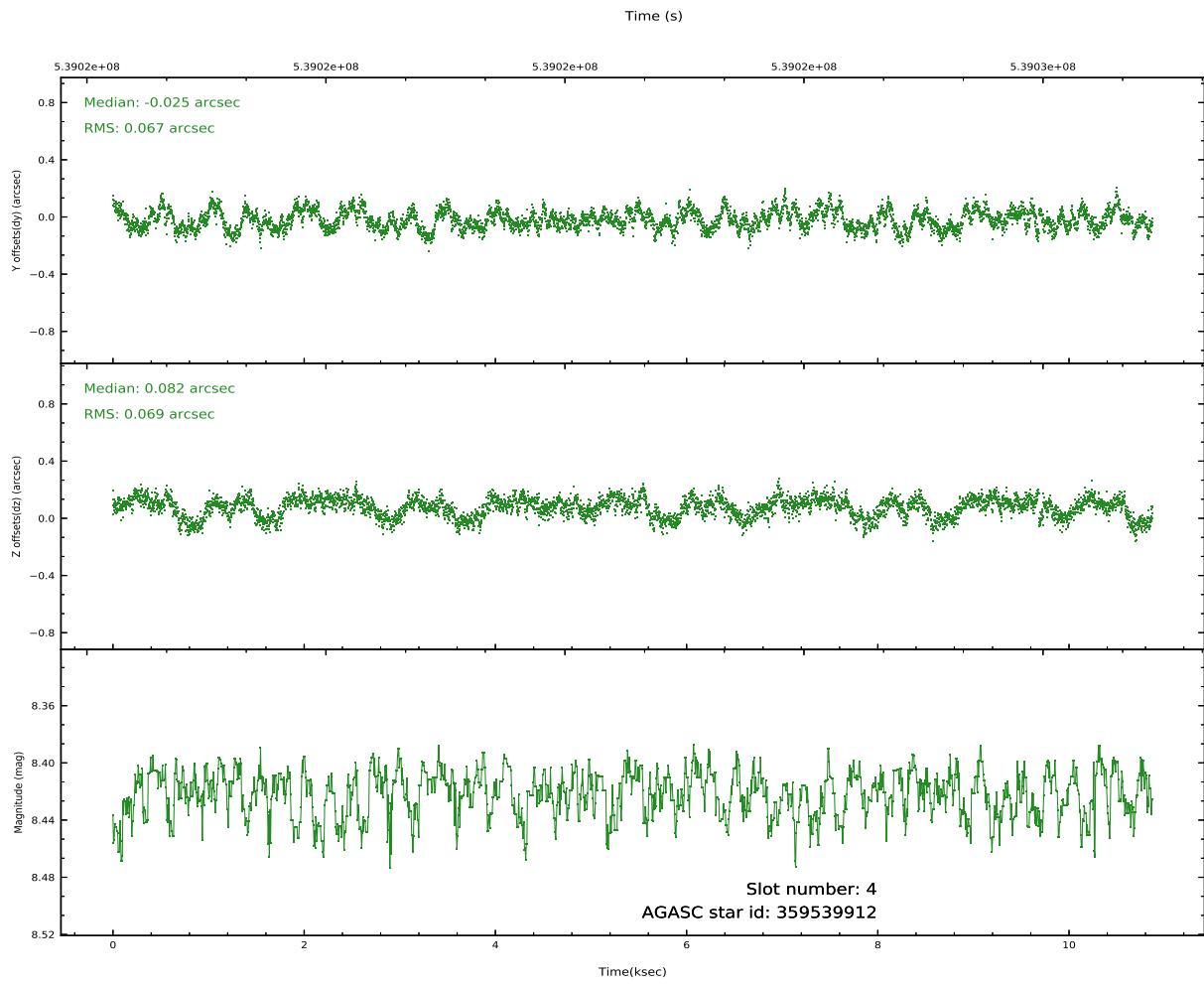
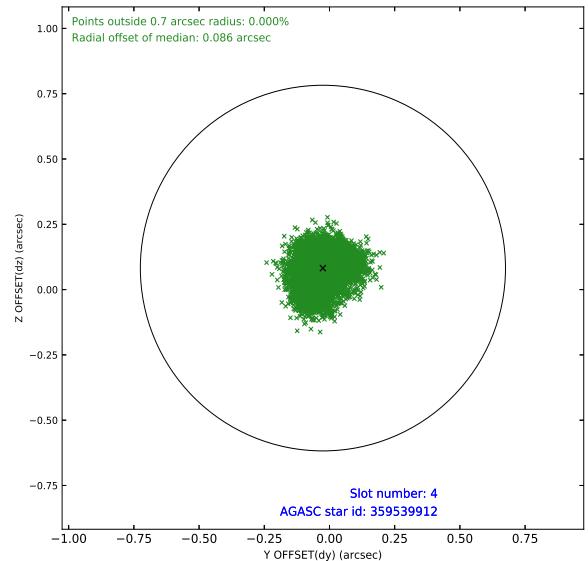
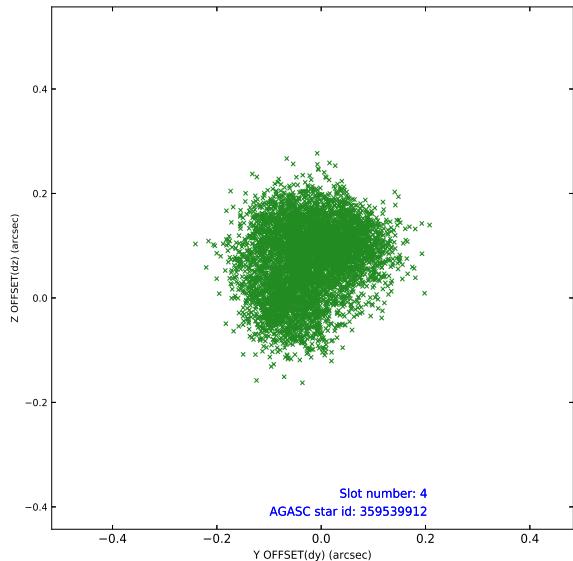
∞

2.4 Star Slots

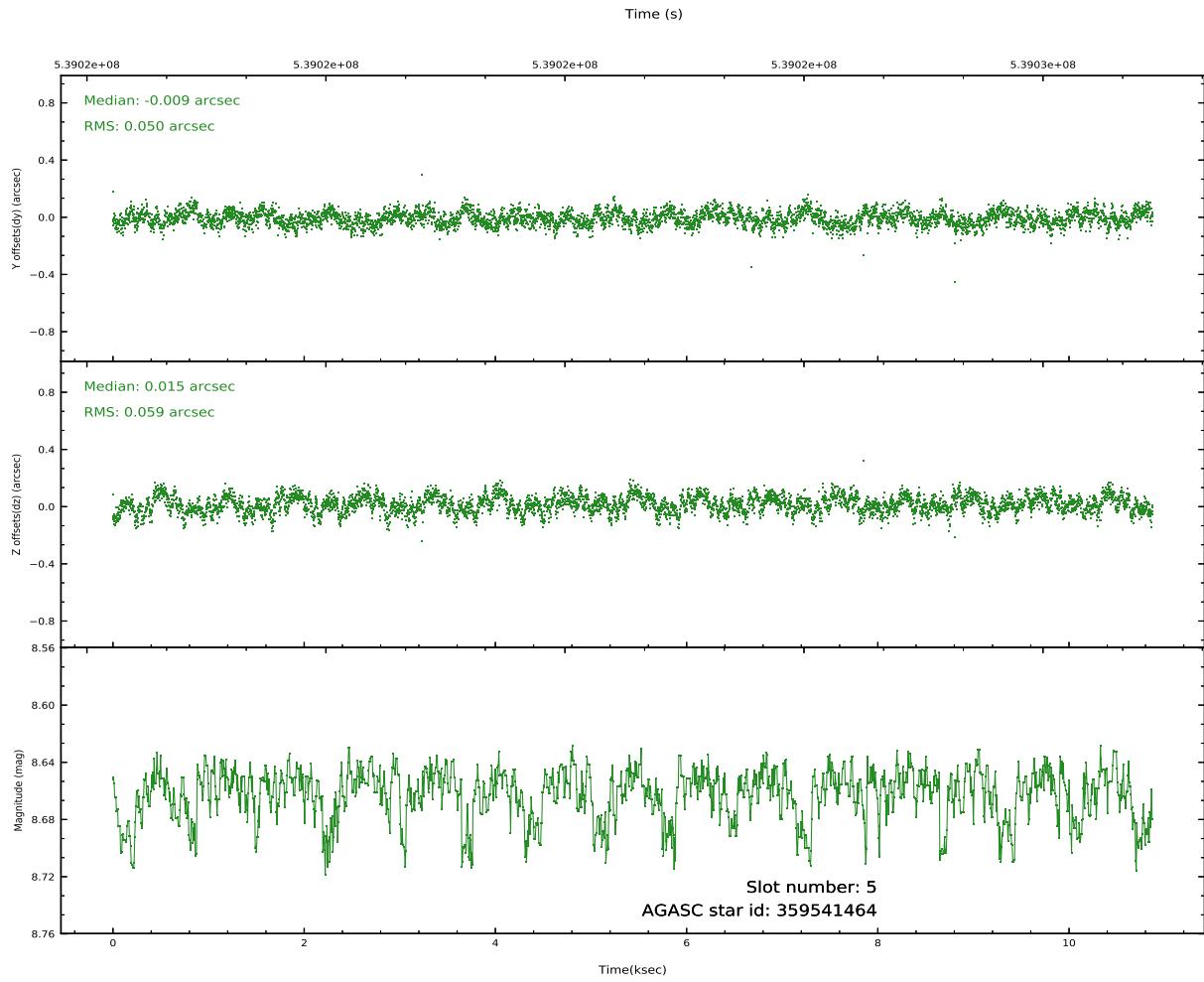
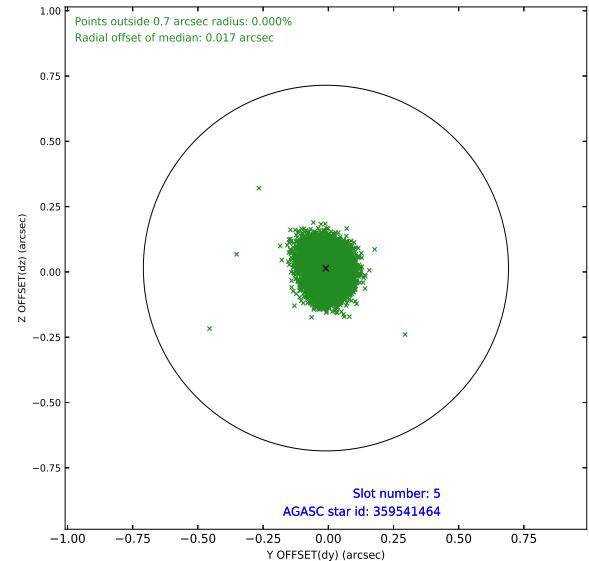
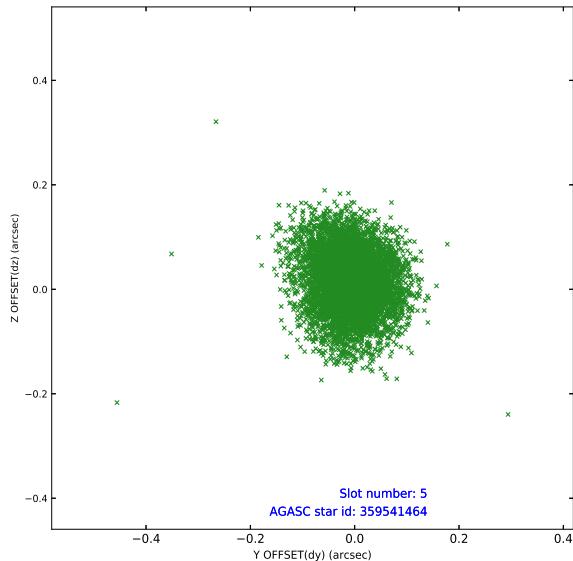
2.4.1 Slot 3



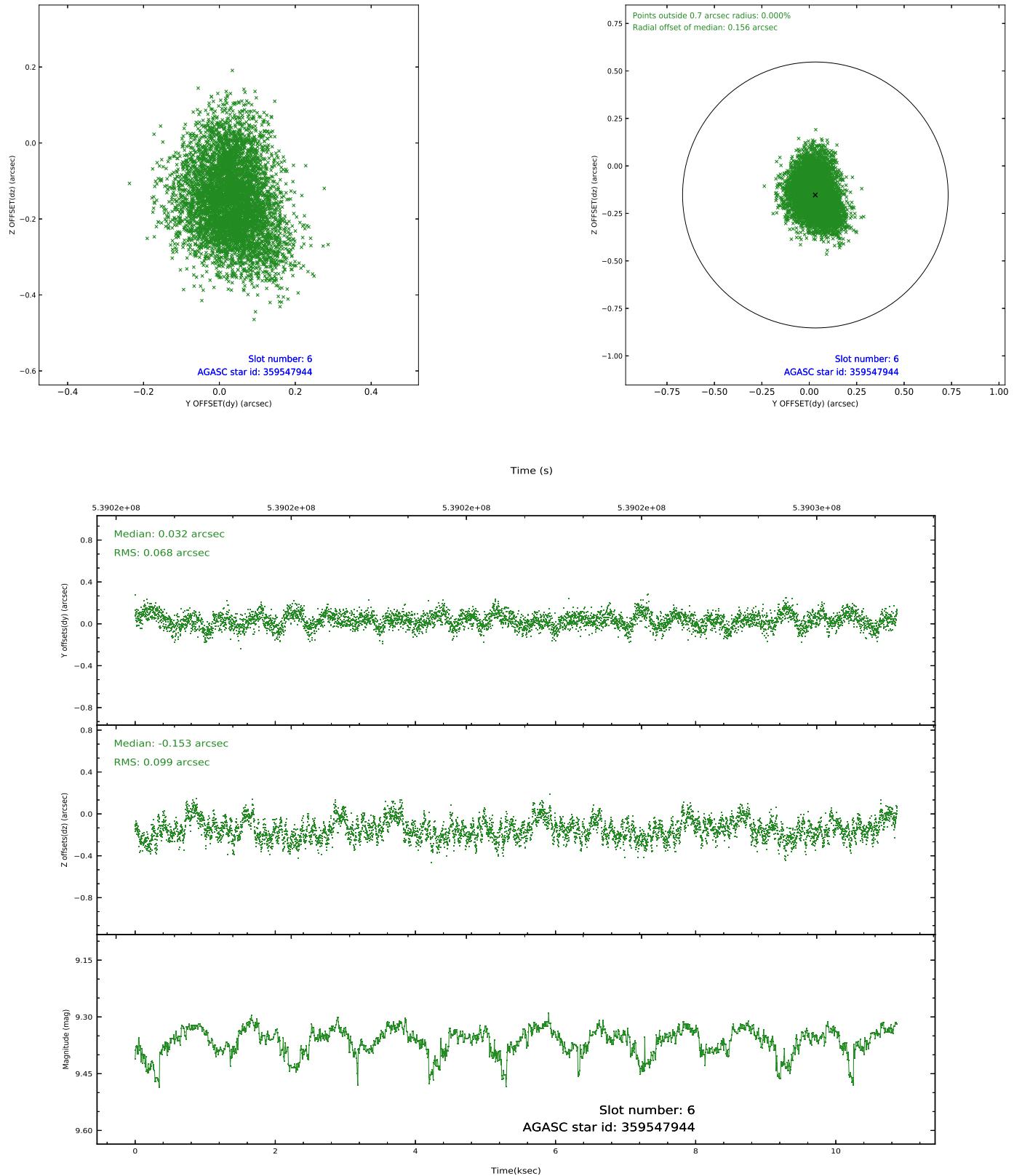
2.4.2 Slot 4



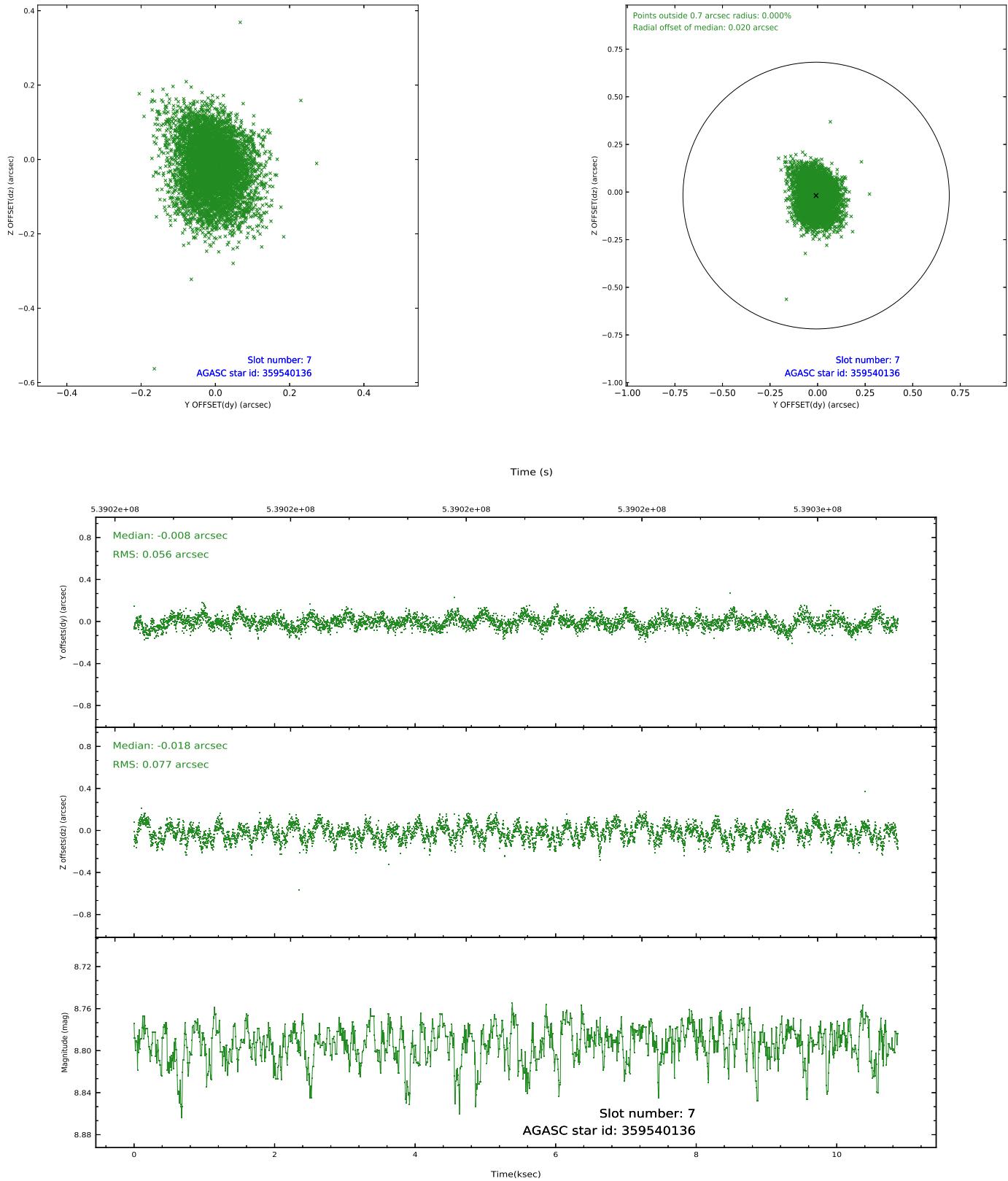
2.4.3 Slot 5



2.4.4 Slot 6

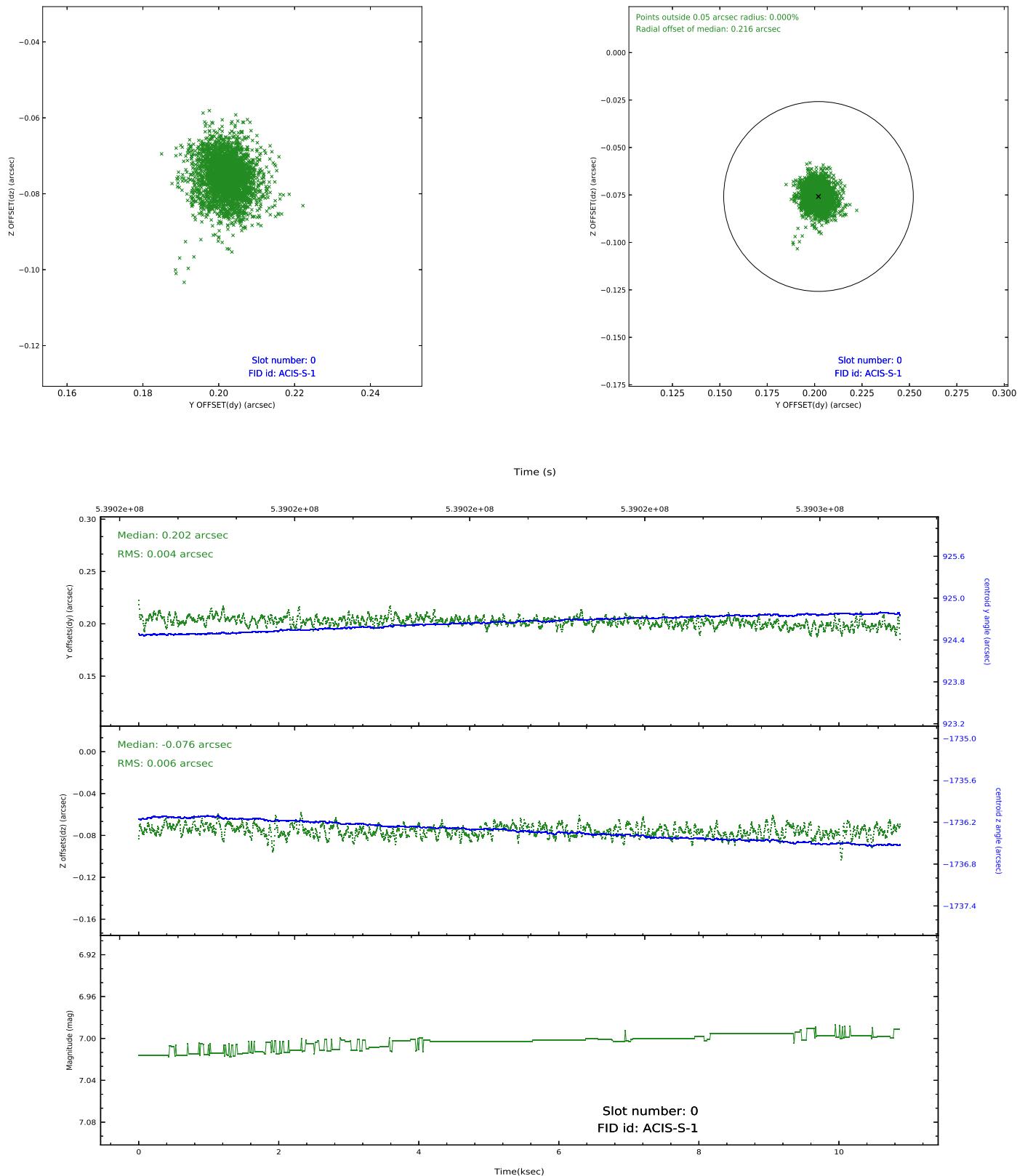


2.4.5 Slot 7

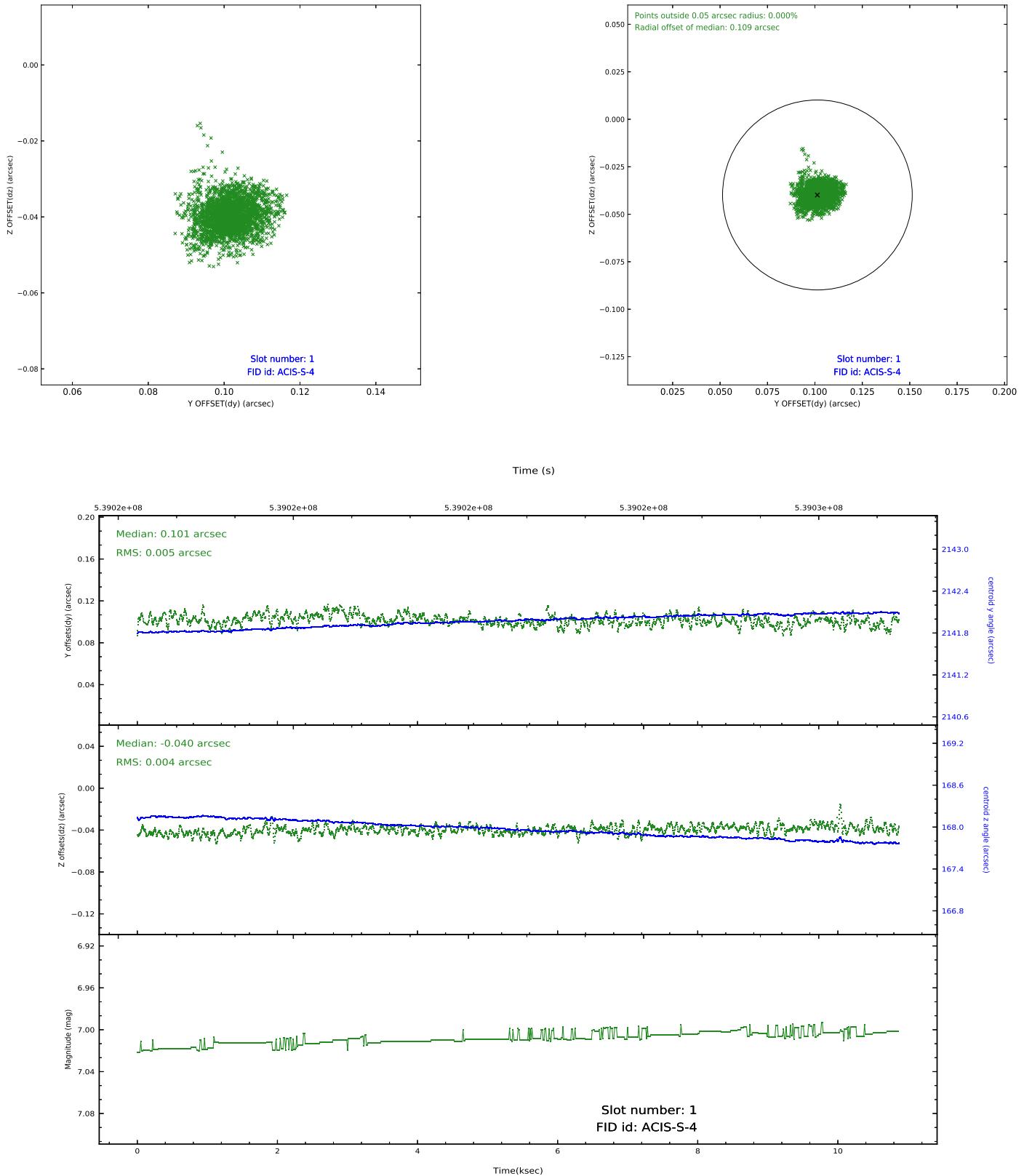


2.5 FID Slots

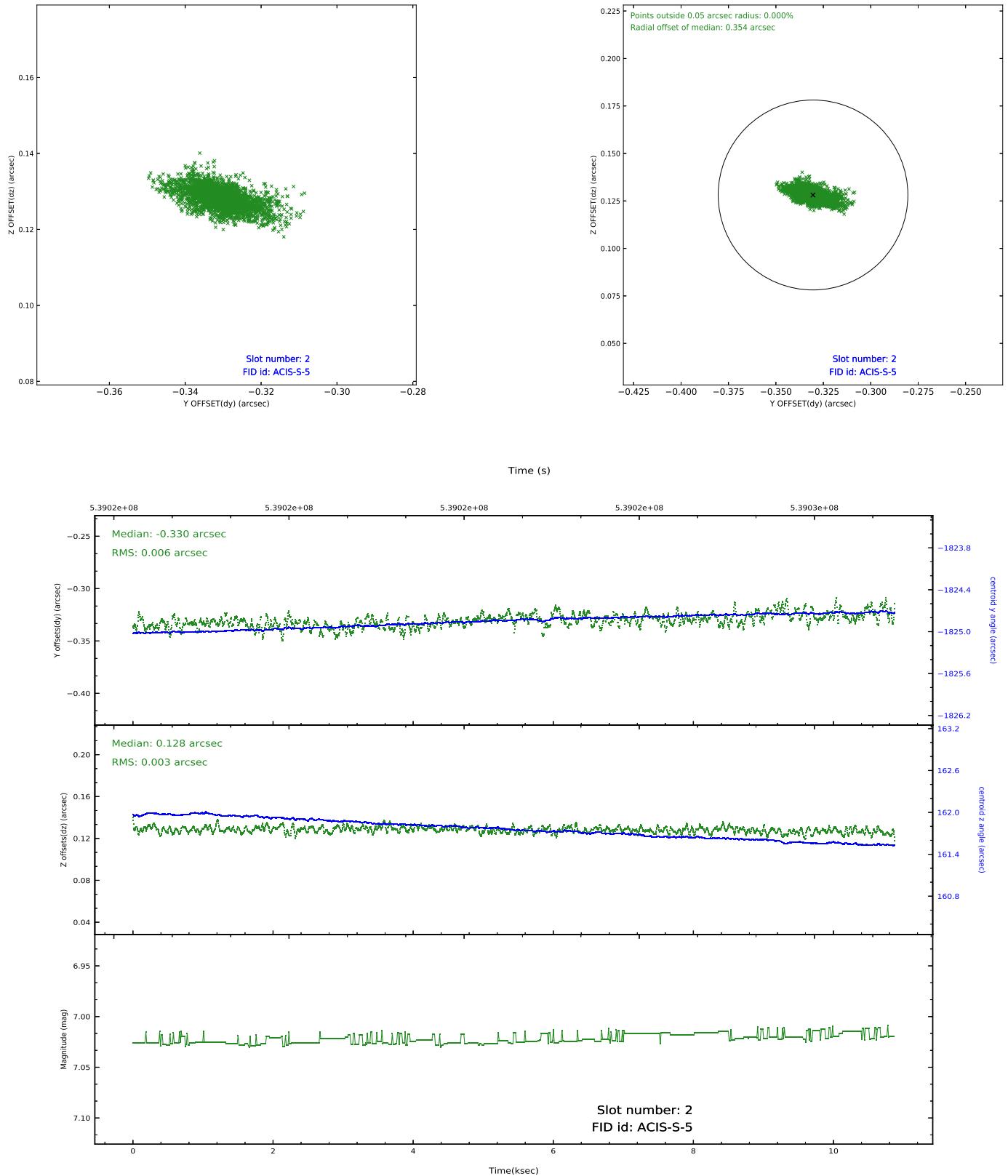
2.5.1 Slot 0



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)	2021.01.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.045654501796

A.2 Comments