

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 22298 - L2 Version 1
Chandra X-Ray Center

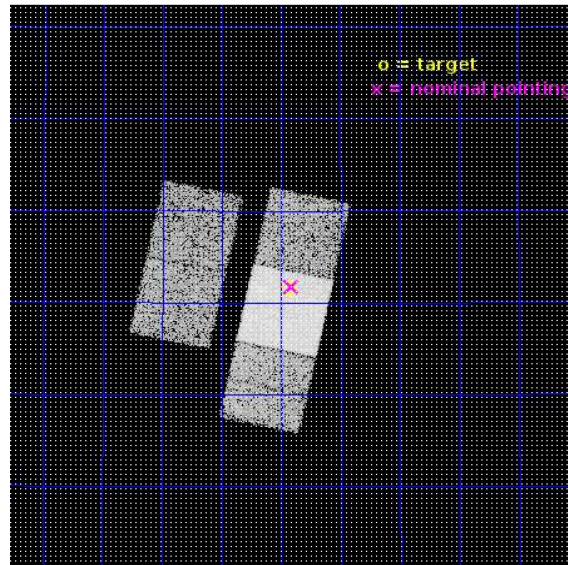
L2 Processing Date : Sep 15 2019

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1 Front

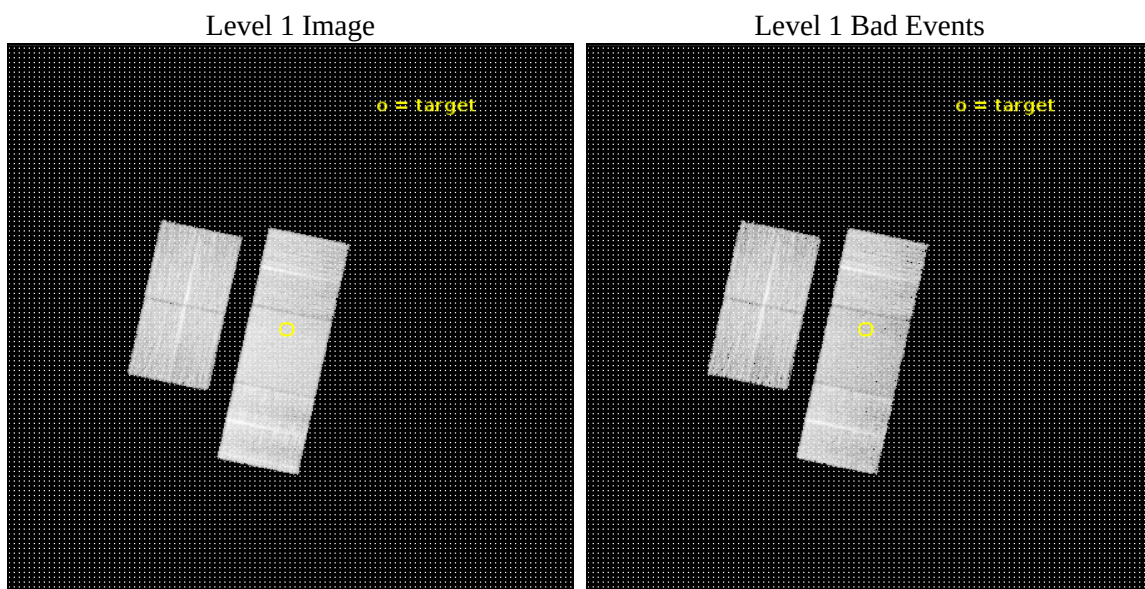
seq_num	201268	Sequence number
obs_id	22298	Observation id
title	Rejuvenation of the Innocent Bystander: Spin-Up in the Nearest Dwarf Carbon Stars	Proposal title
observer	Paul Green	Principal investigator
object	043526.1+340136	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	68.858917	Observer's specified target RA [deg]
dec_targ	34.0268	Observer's specified target Dec [deg]
ra_nom	68.853206311909	Nominal RA [deg]
dec_nom	34.028949713056	Nominal Dec [deg]
roll_nom	102.15974721202	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10257.398581266	Sum of GTIs [s]
livetime	10123.378117415	Livetime [s]
ontime2	10257.234421253	Sum of GTIs [s]
ontime3	10254.175501108	Sum of GTIs [s]
ontime6	10257.357541323	Sum of GTIs [s]
ontime7	10257.398581266	Sum of GTIs [s]
ontime8	10257.275461316	Sum of GTIs [s]
l2events	75543	Number of level 2 events



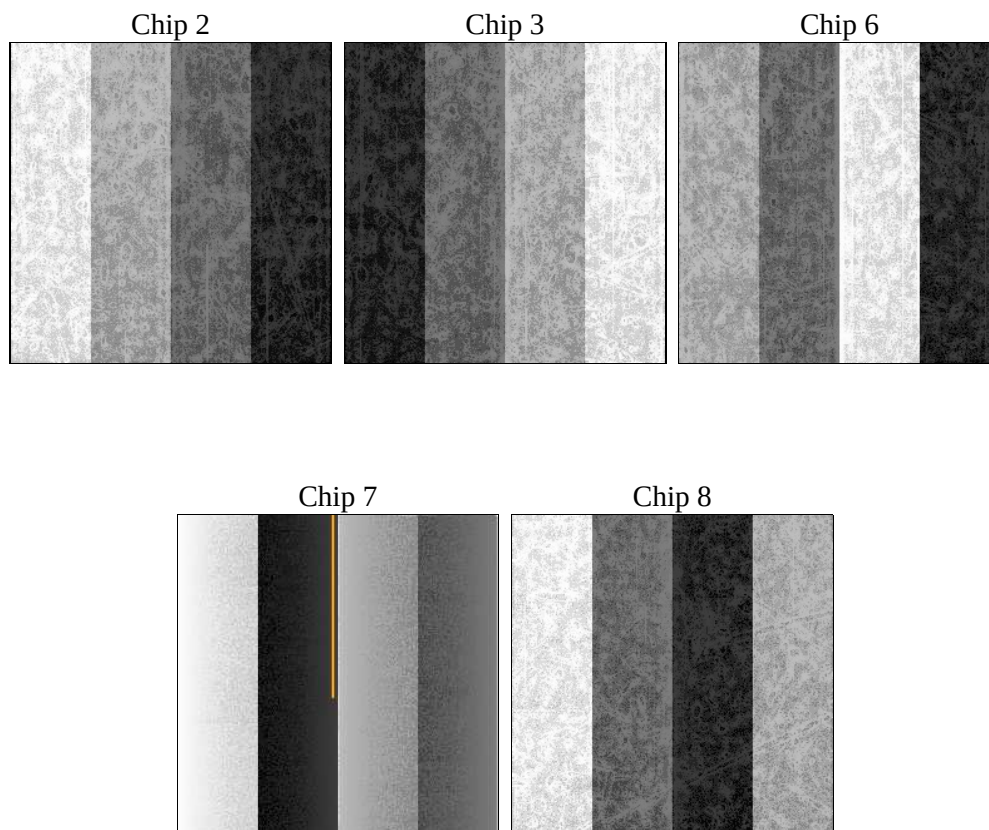
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10200.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	10257.398581266	Sum of GTIs [s]
caldsver	4.8.4.1	 	ontime2	10257.234421253	Sum of GTIs [s]
date	2019-09-15T17:11:52	Date and time of file creation	ontime3	10254.175501108	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	10257.357541323	Sum of GTIs [s]
			ontime7	10257.398581266	Sum of GTIs [s]
			ontime8	10257.275461316	Sum of GTIs [s]
			l1events	444480	Number of level 1 events

2.1.4 Events

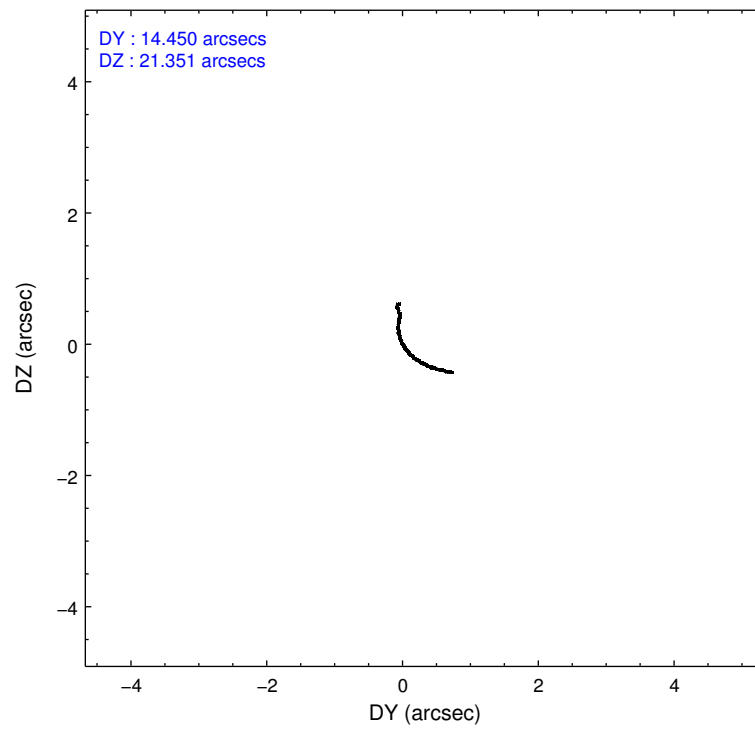
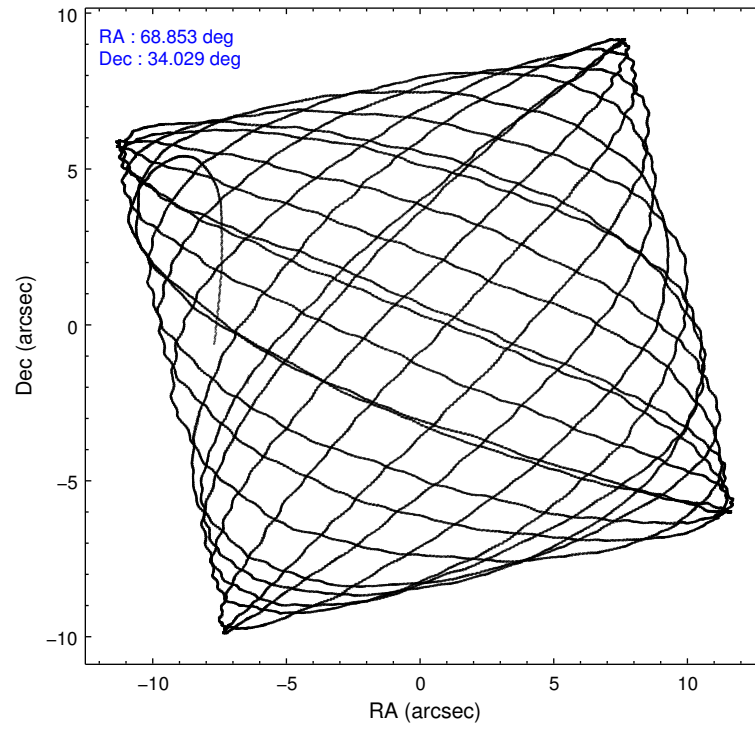
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	77430	74591	80840	103492	108127
rejected events	68996	66192	71846	59079	77297
rejected %	89%	88%	88%	57%	71%

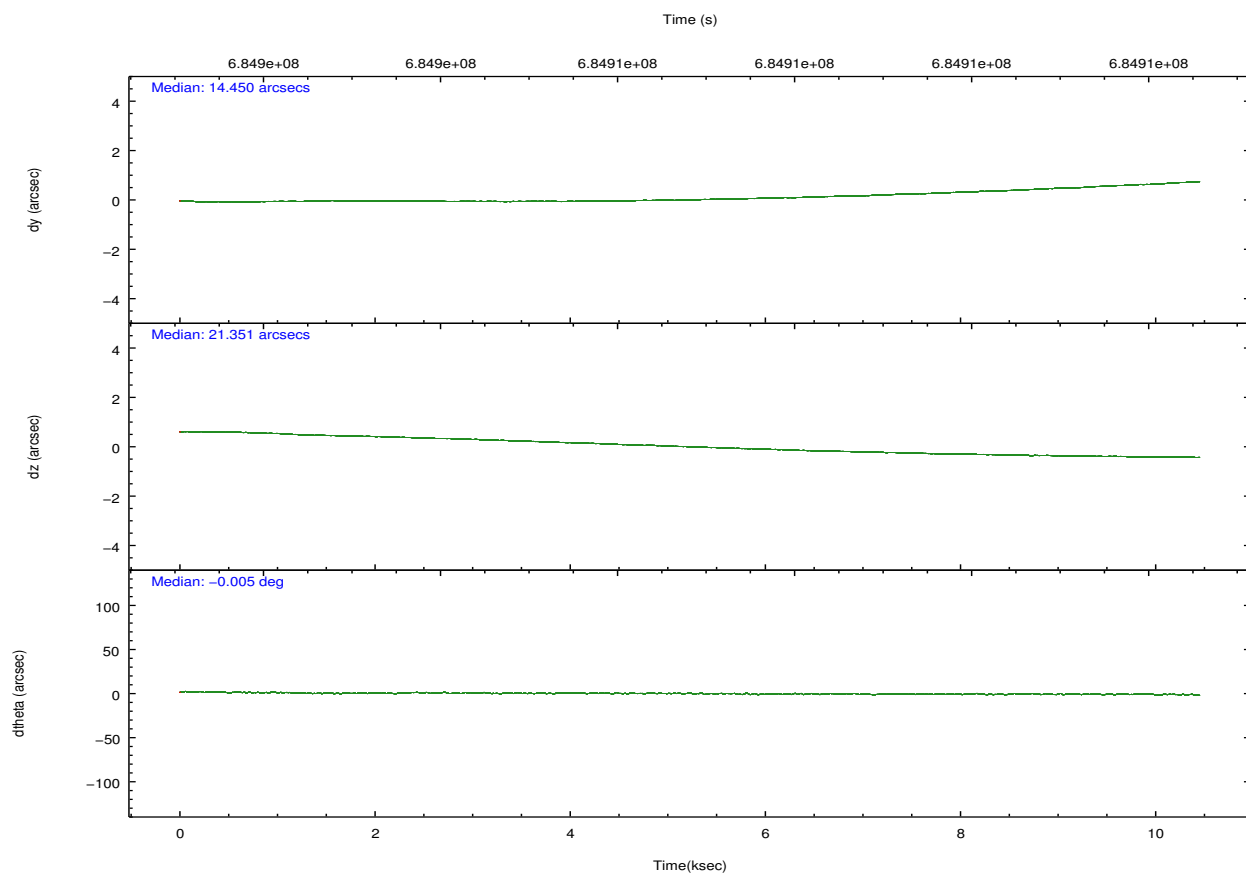
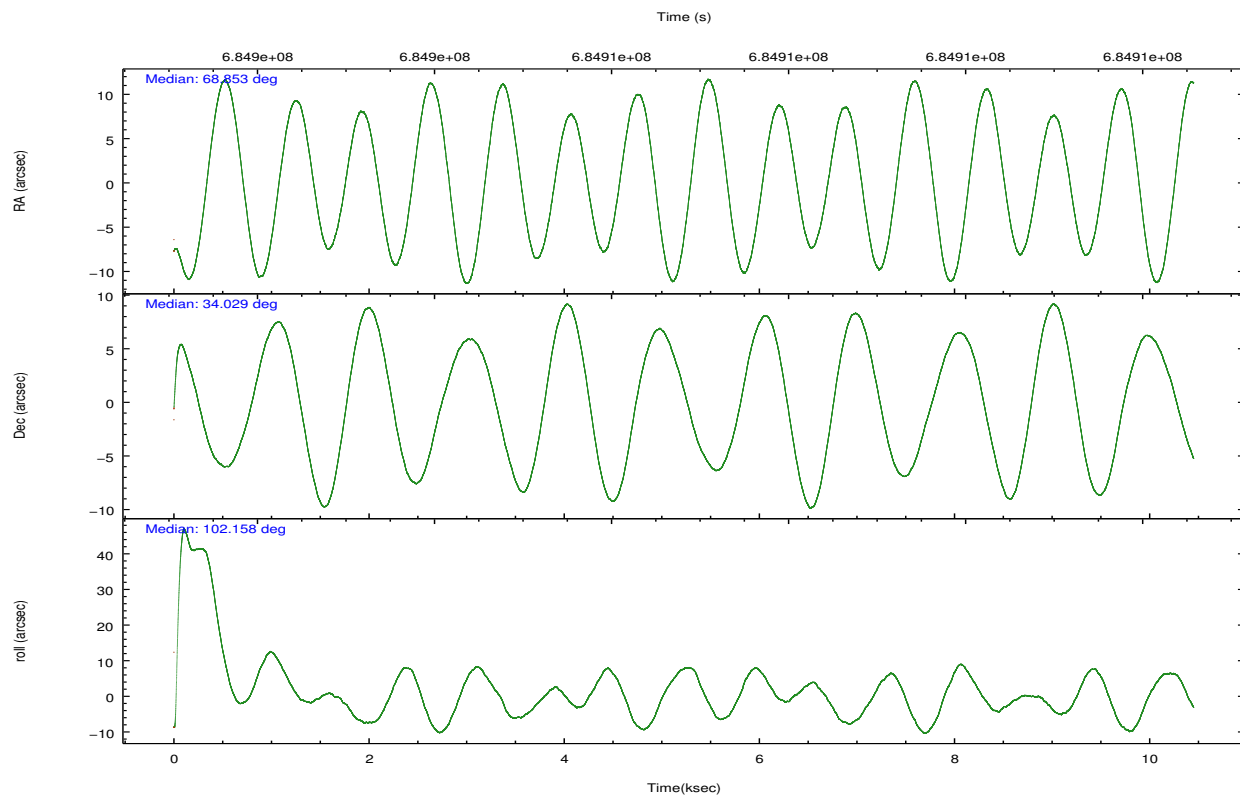
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2993	3022	2956	3707	8843
	3%	4%	3%	3%	8%
grade 1 events	33	41	37	162	100
	0%	0%	0%	0%	0%
grade 2 events	2102	1902	2205	9582	7545
	2%	2%	2%	9%	6%
grade 3 events	814	841	898	3439	3003
	1%	1%	1%	3%	2%
grade 4 events	872	807	875	3385	2950
	1%	1%	1%	3%	2%
grade 5 events	3189	3610	3755	10225	5712
	4%	4%	4%	9%	5%
grade 6 events	1655	1828	2062	24312	8491
	2%	2%	2%	23%	7%
grade 7 events	65772	62540	68052	48680	71483
	84%	83%	84%	47%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	68.875789	68.85320631190851	CCD I2 on	O2	Y
[deg] Pointing Dec	34.008849	34.0289497130559	CCD I3 on	Y	Y
[deg] Pointing Roll	101.990562	102.1597472120172	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	Y
[s] Observation start time (MET)	684901834.184000	684900852.65573	CCD S5 on	N	N
Observation start date	2019-09-15T02:29:25	2019-09-15T02:14:12	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	684912034.184000	684913075.78146	On-chip summing requested	N	N
Observation end date	2019-09-15T05:19:25	2019-09-15T05:37:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



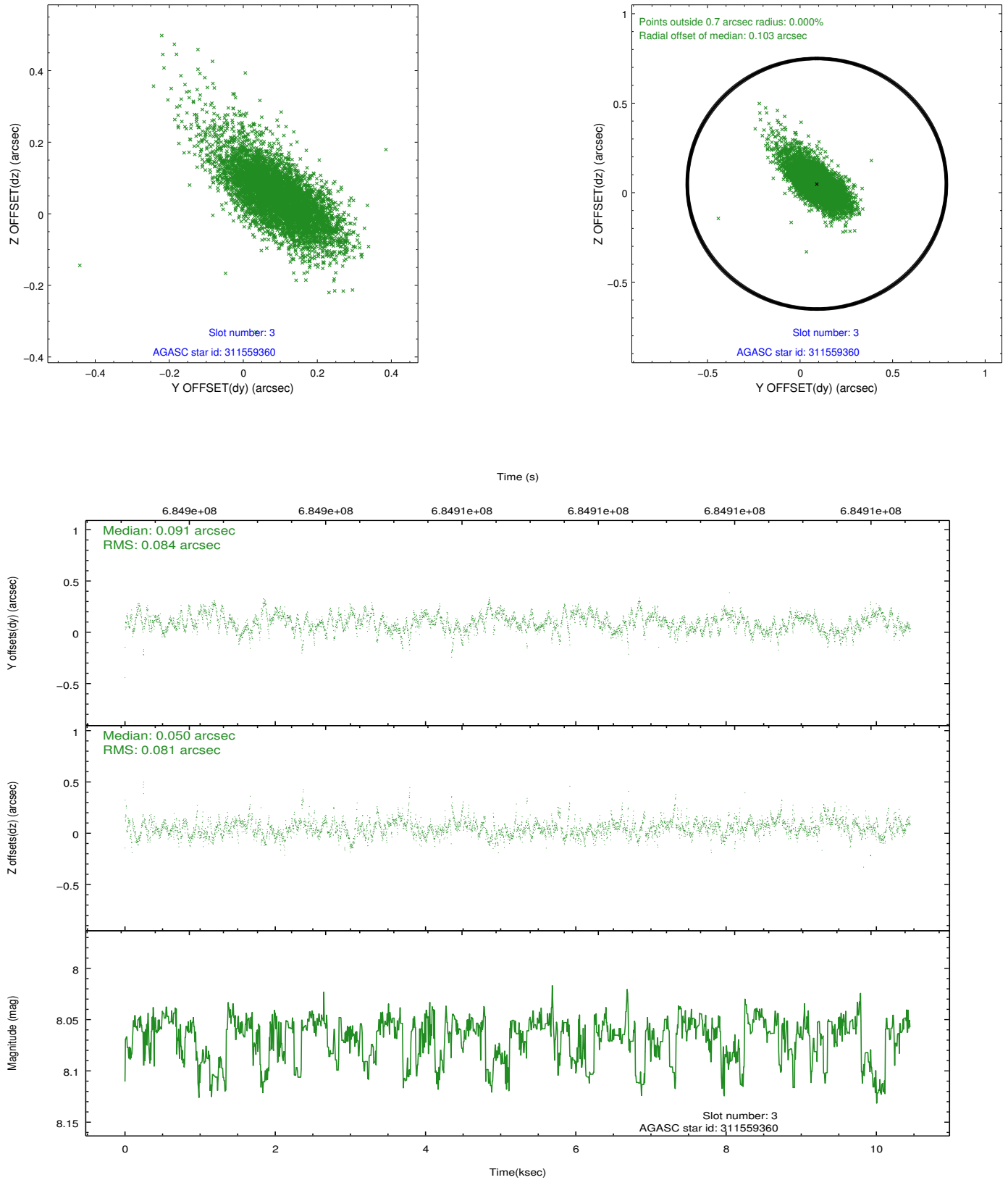


Slot Statistics

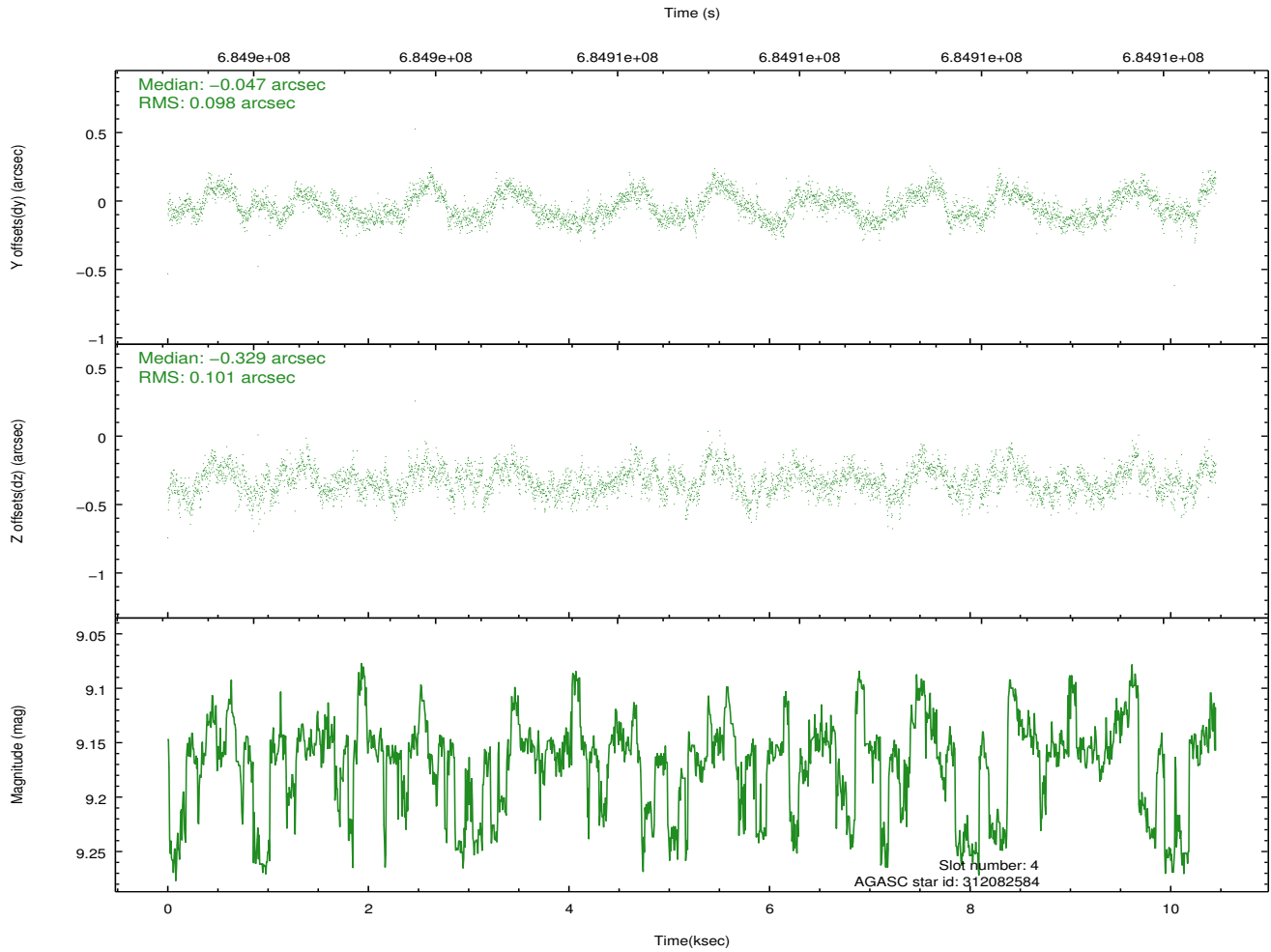
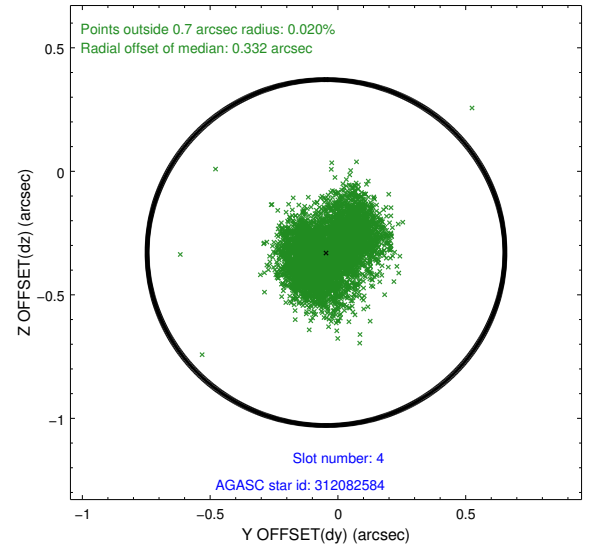
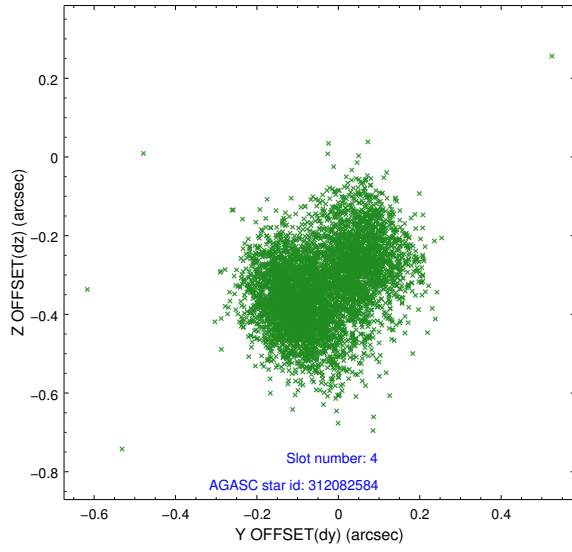
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.03	2550	1.000	-0.298	-0.203	0.010	0.018	0.000000	0.000000	-767.80	-1743
1	FID		ACIS-S-4	7.14	2550	1.000	0.766	0.198	0.013	0.021	0.000000	0.000000	2146.27	165
2	FID		ACIS-S-5	7.11	2550	1.000	-0.499	0.013	0.011	0.018	0.000000	0.000000	-1820.24	159
3	GUIDE	used	311559360	8.06	5097	1.000	0.091	0.050	0.114	0.217	68.233698	33.420424	-1665.88	2325
4	GUIDE	used	312082584	9.16	5092	1.000	-0.047	-0.329	0.151	0.236	68.095654	33.835675	-117.85	2407
5	GUIDE	used	312083800	8.99	5096	1.000	0.193	0.253	0.126	0.218	68.508169	33.777881	-583.31	1247
6	GUIDE	used	312089312	9.21	5097	1.000	-0.263	-0.277	0.114	0.187	68.347418	34.255935	1199.96	1351
7	GUIDE	used	312091352	9.46	5092	1.000	0.014	0.301	0.180	0.284	68.852798	34.507412	1769.79	-305

2.4 Star Slots

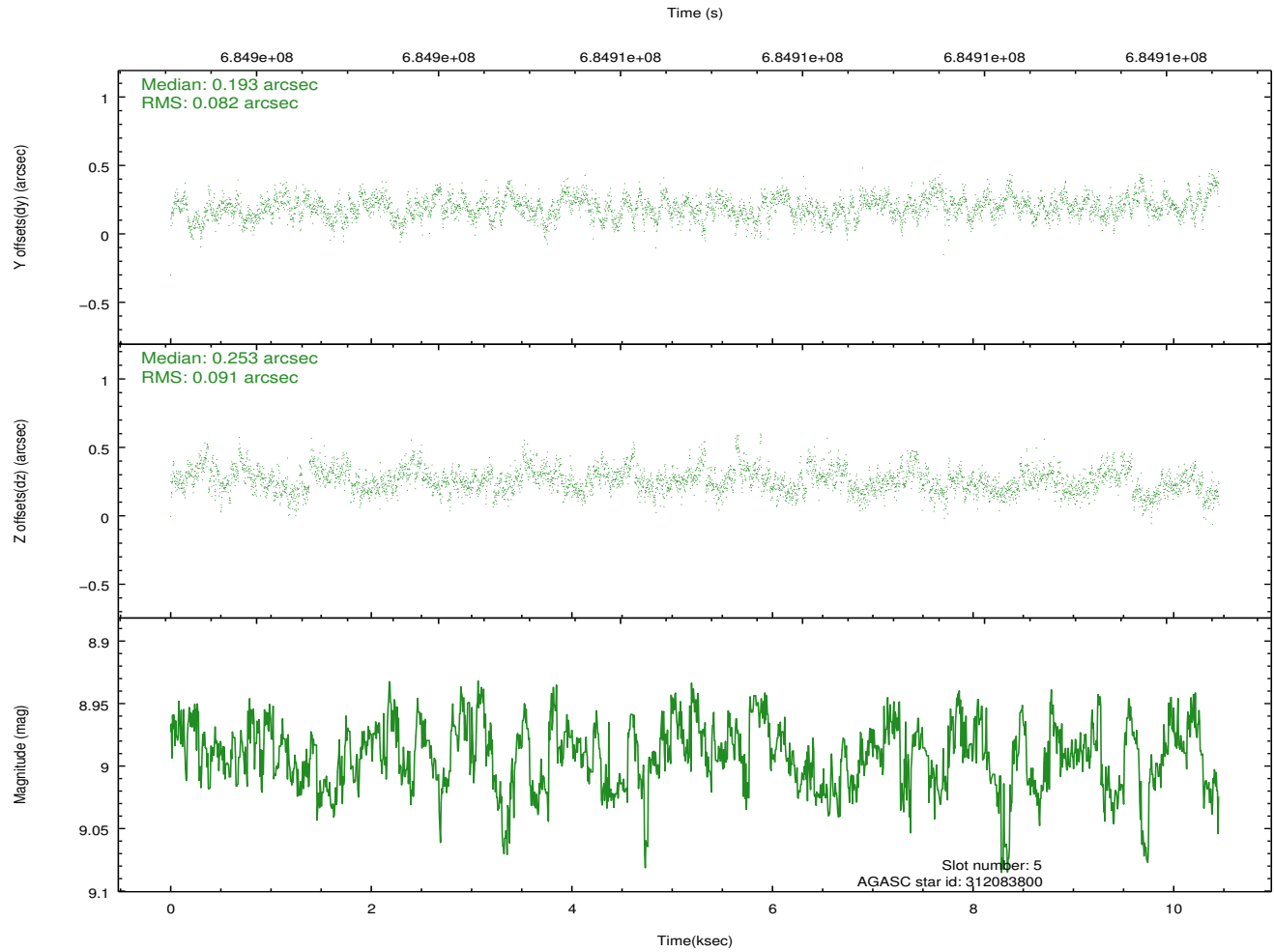
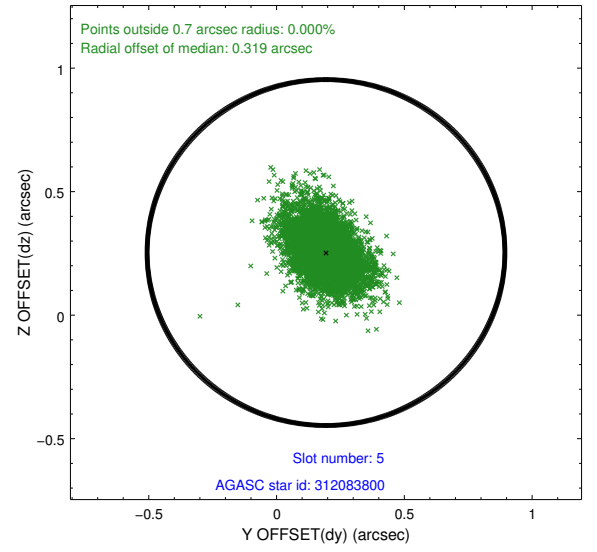
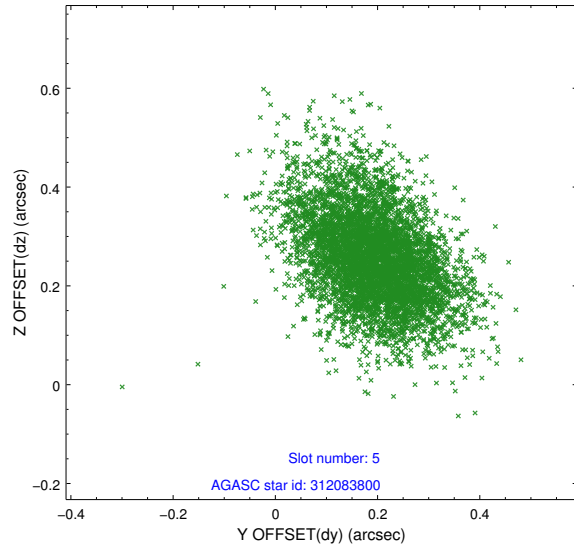
2.4.1 Slot 3



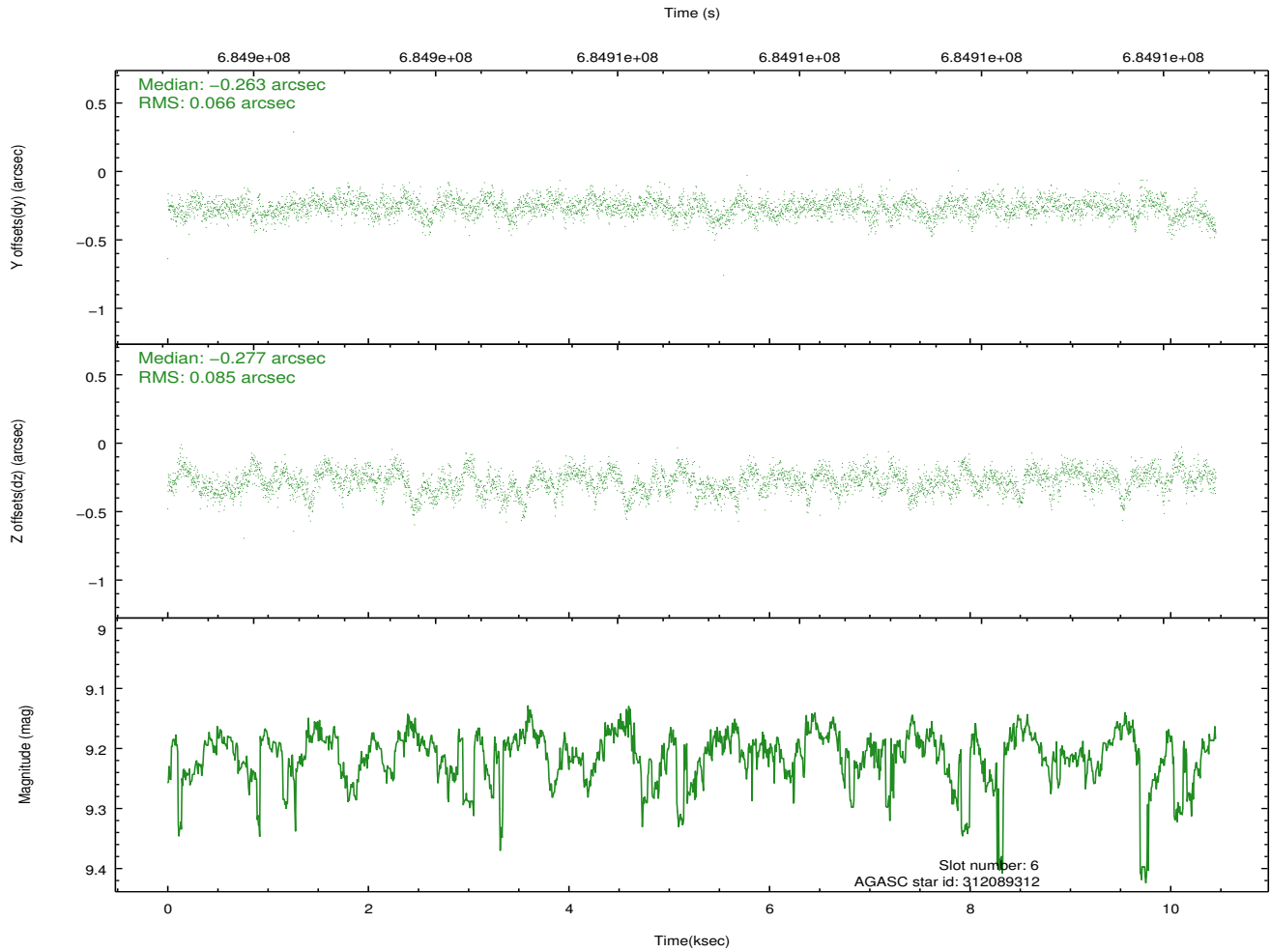
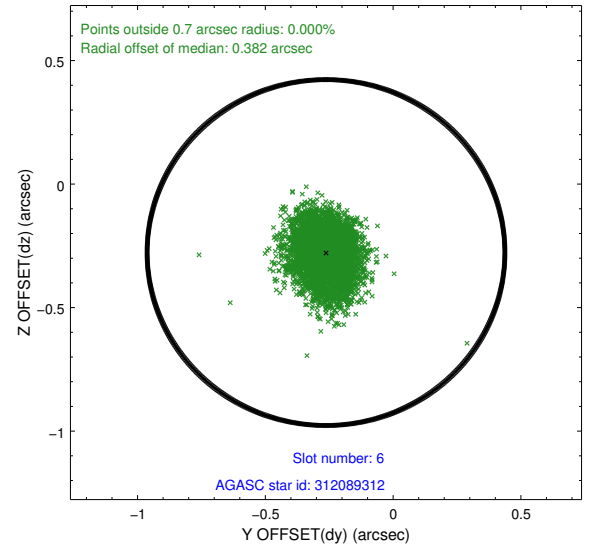
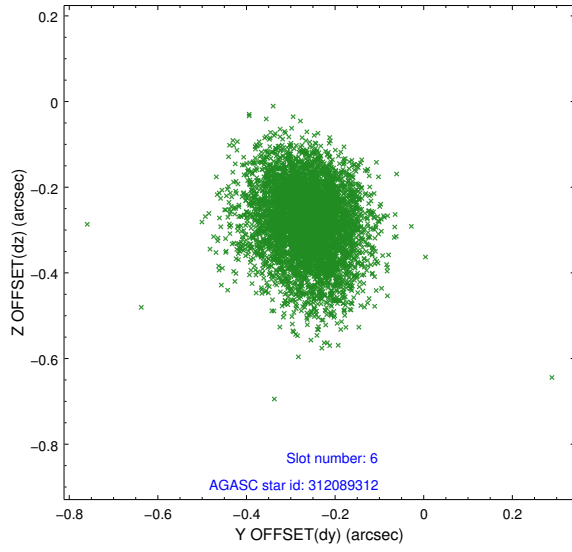
2.4.2 Slot 4



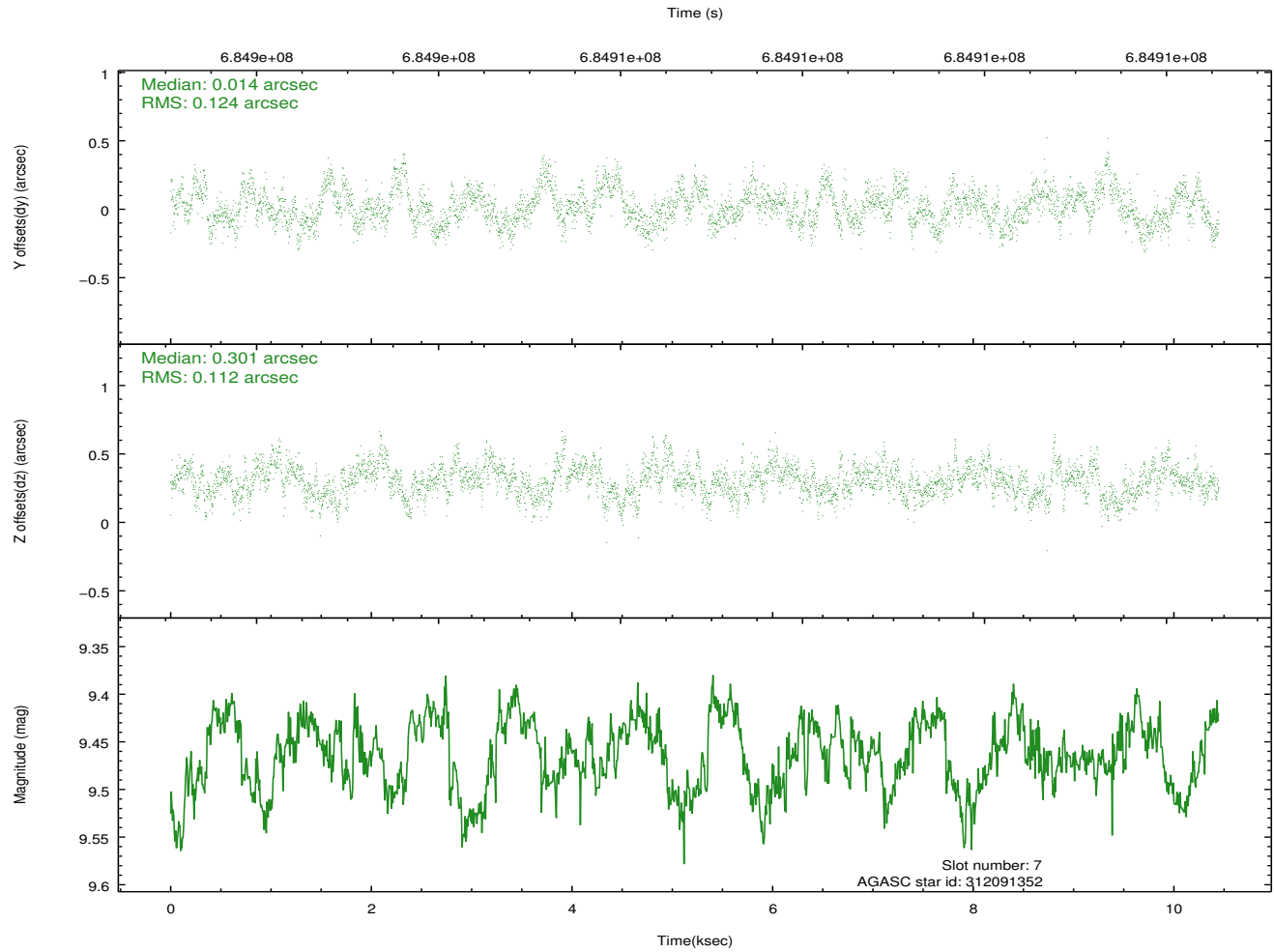
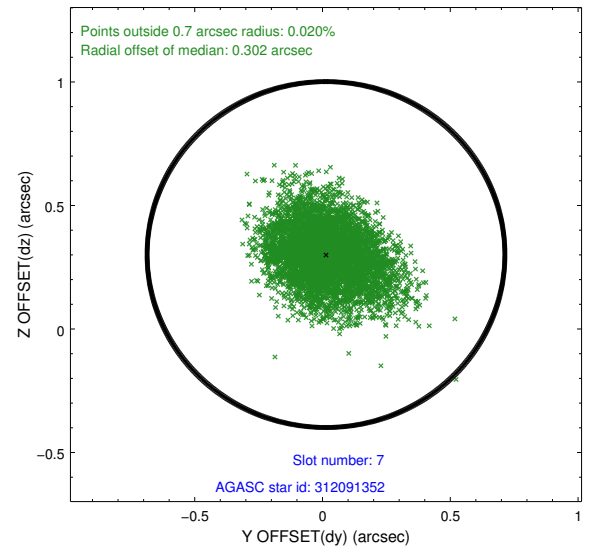
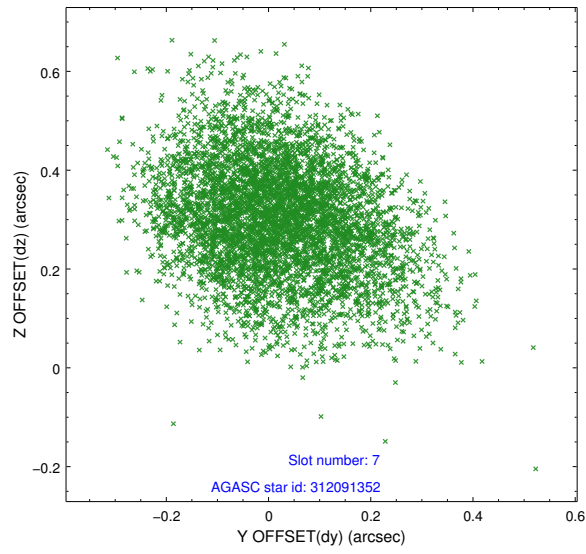
2.4.3 Slot 5



2.4.4 Slot 6

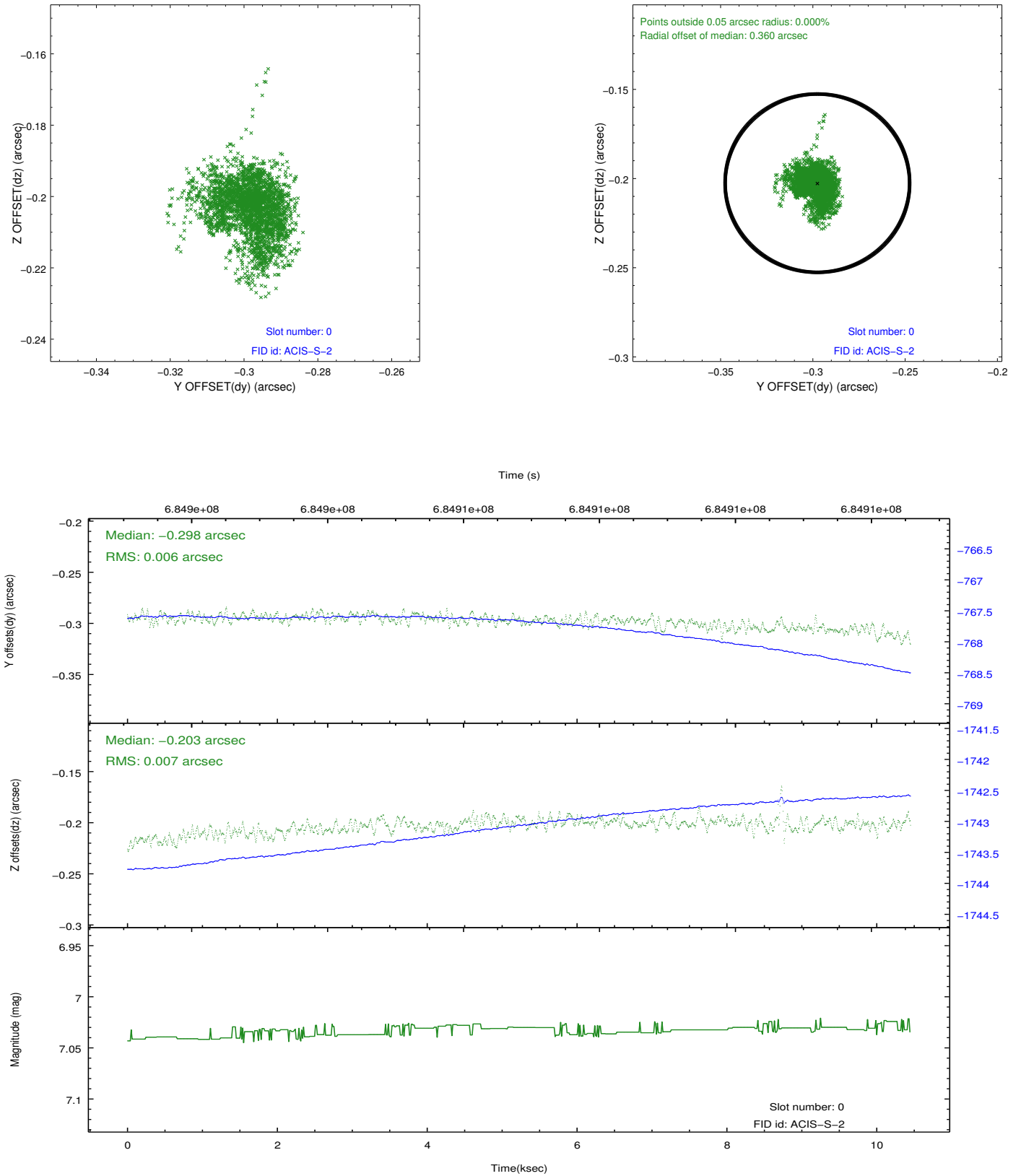


2.4.5 Slot 7

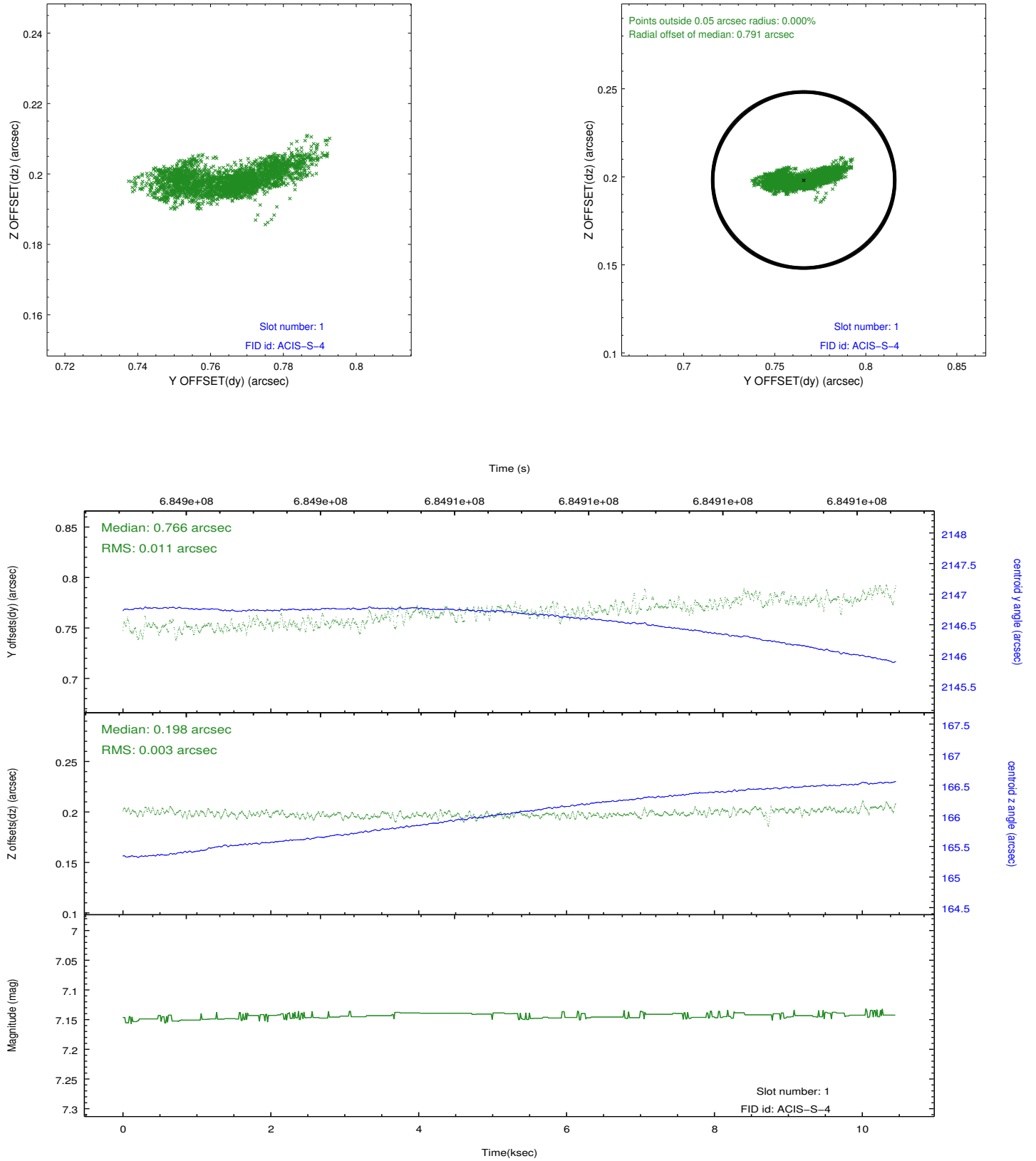


2.5 FID Slots

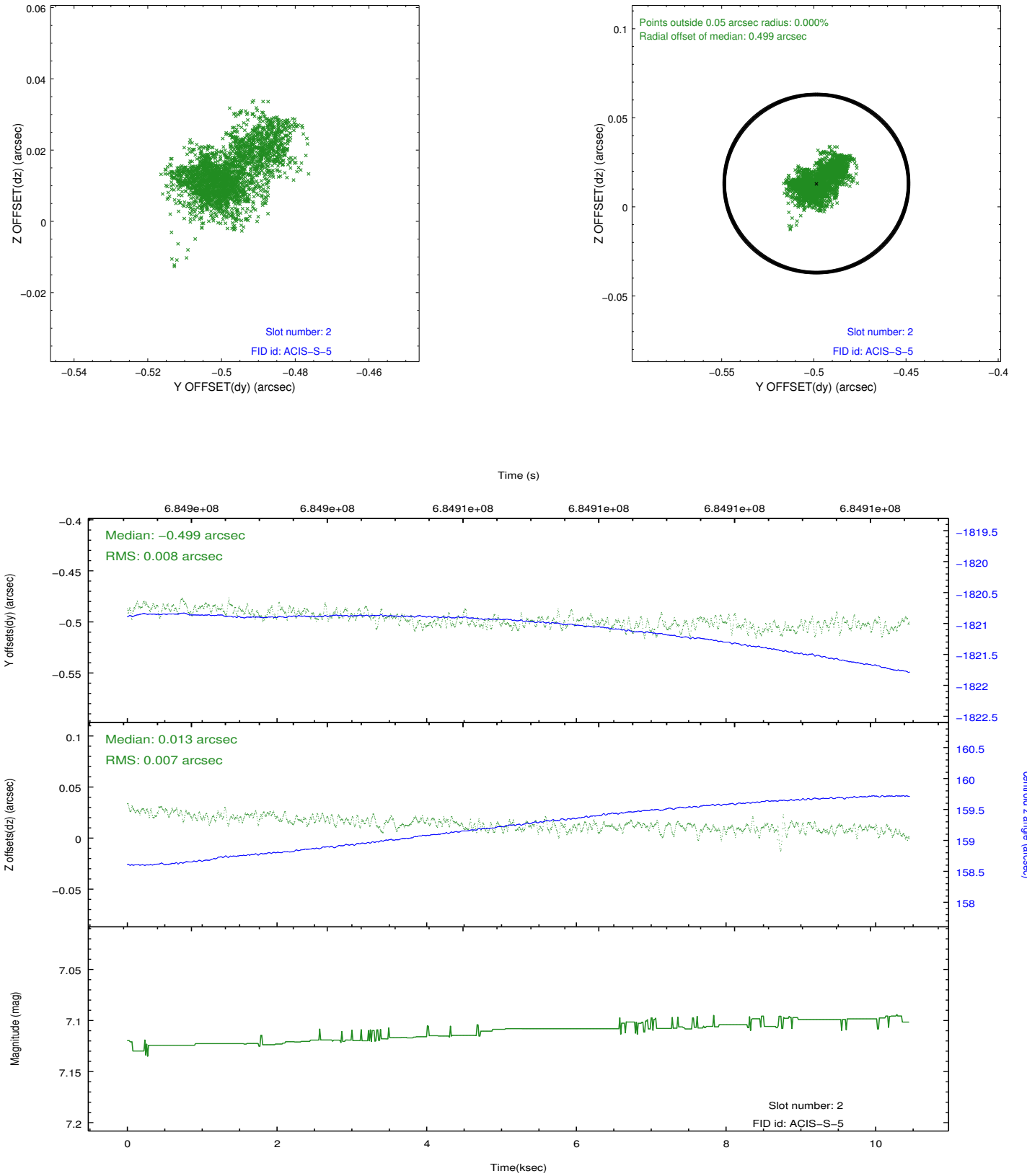
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2019.09.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.257398581266

A.2 Comments