

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10110 - L2 Version 2
Chandra X-Ray Center

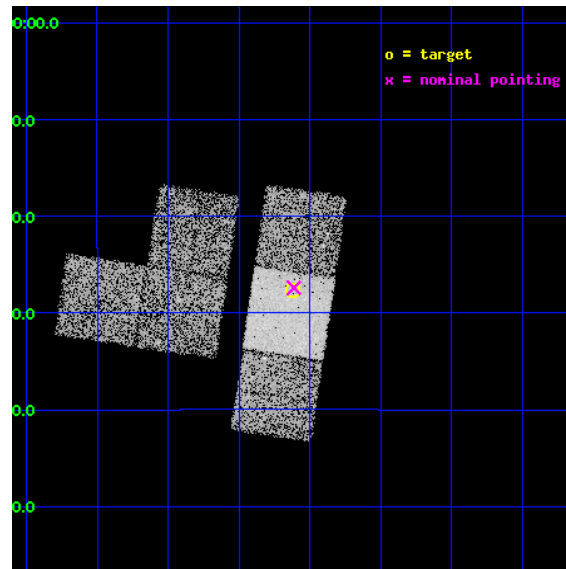
L2 Processing Date : Jun 2 2012

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

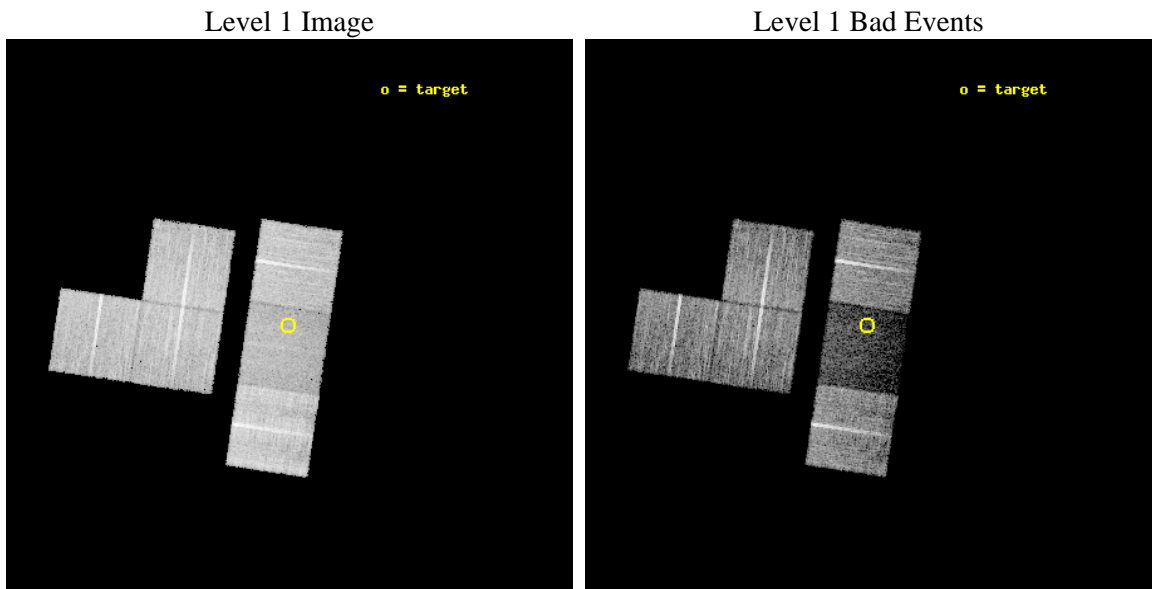
seq_num	501038	Sequence number
obs_id	10110	Observation id
title	Are all black widows alike?	Proposal title
observer	Dr. Vyacheslav Zavlin	Principal investigator
object	PSR J2051-0827	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	312.78125	Observer's specified target RA [deg]
dec_targ	-8.460556	Observer's specified target Dec [deg]
ra_nom	312.77810138423	Nominal RA [deg]
dec_nom	-8.4568485744097	Nominal Dec [deg]
roll_nom	98.385025181215	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9164.7999659181	Sum of GTIs [s]
livetime	9048.7497503696	Livetime [s]
ontime1	9164.7999659181	Sum of GTIs [s]
ontime2	9161.559025526	Sum of GTIs [s]
ontime3	9164.7999659181	Sum of GTIs [s]
ontime6	9164.7999659181	Sum of GTIs [s]
ontime7	9164.7999659181	Sum of GTIs [s]
ontime8	9164.7999659181	Sum of GTIs [s]
l2events	46614	Number of level 2 events



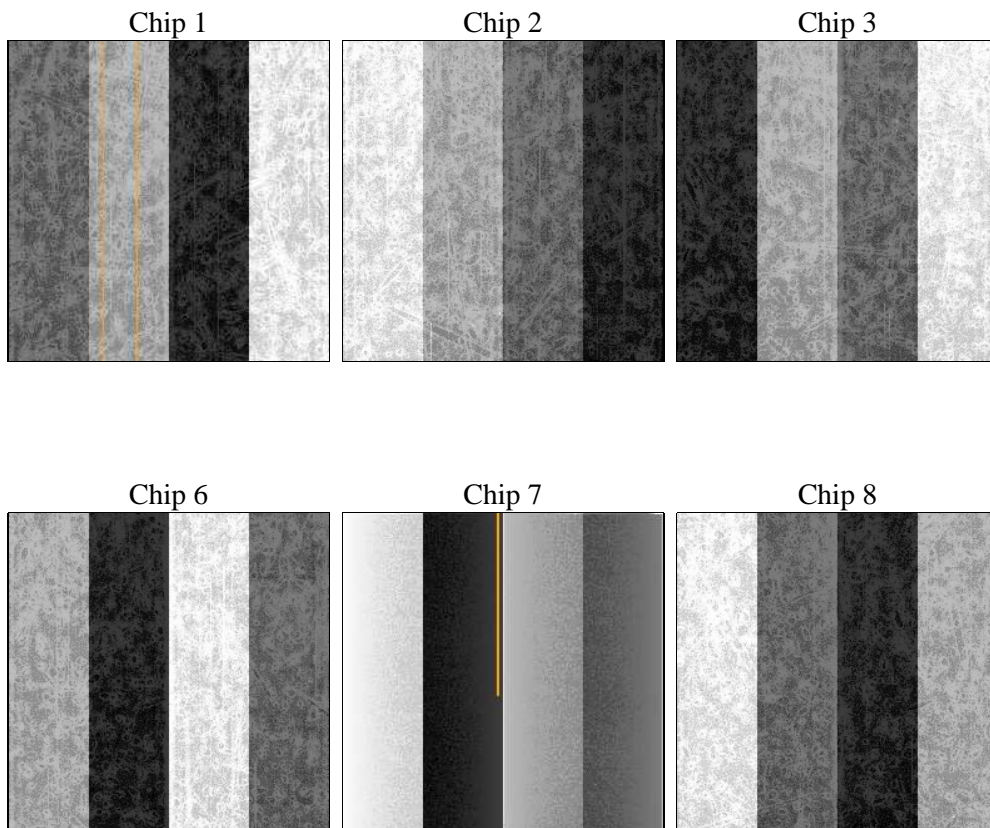
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8999.360000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	9164.7999659181	Sum of GTIs [s]
caldsver	4.4.9	 	ontime1	9164.7999659181	Sum of GTIs [s]
date	2012-06-02T16:36:49	Date and time of file creation	ontime2	9161.559025526	Sum of GTIs [s]
revision	2	Processing version of data	ontime3	9164.7999659181	Sum of GTIs [s]
			ontime6	9164.7999659181	Sum of GTIs [s]
			ontime7	9164.7999659181	Sum of GTIs [s]
			ontime8	9164.7999659181	Sum of GTIs [s]
			l1events	397052	Number of level 1 events

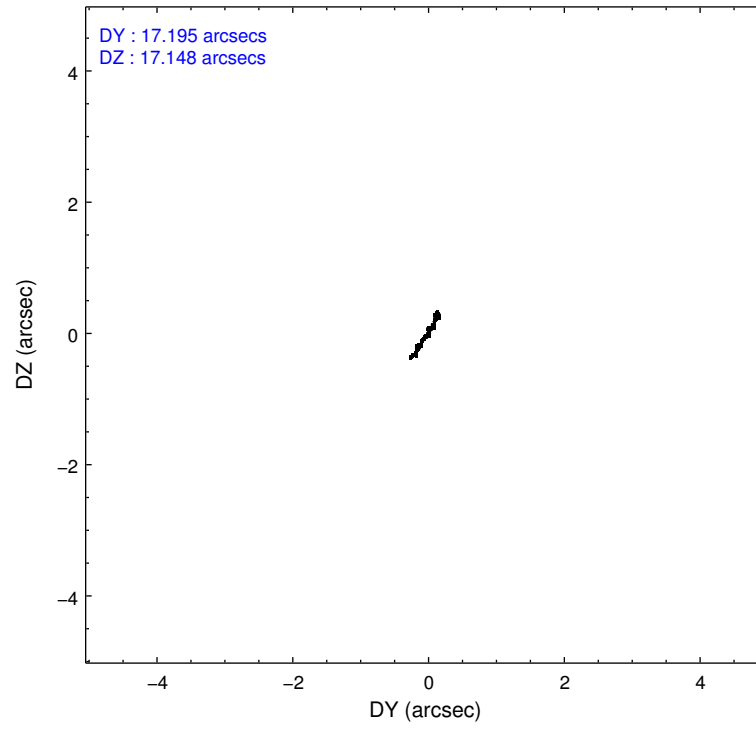
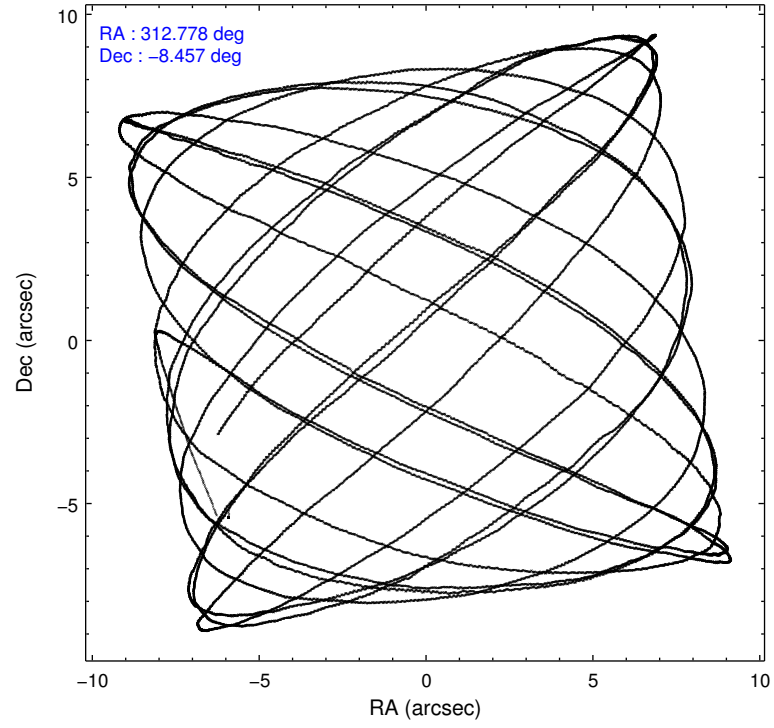
2.1.4 Events

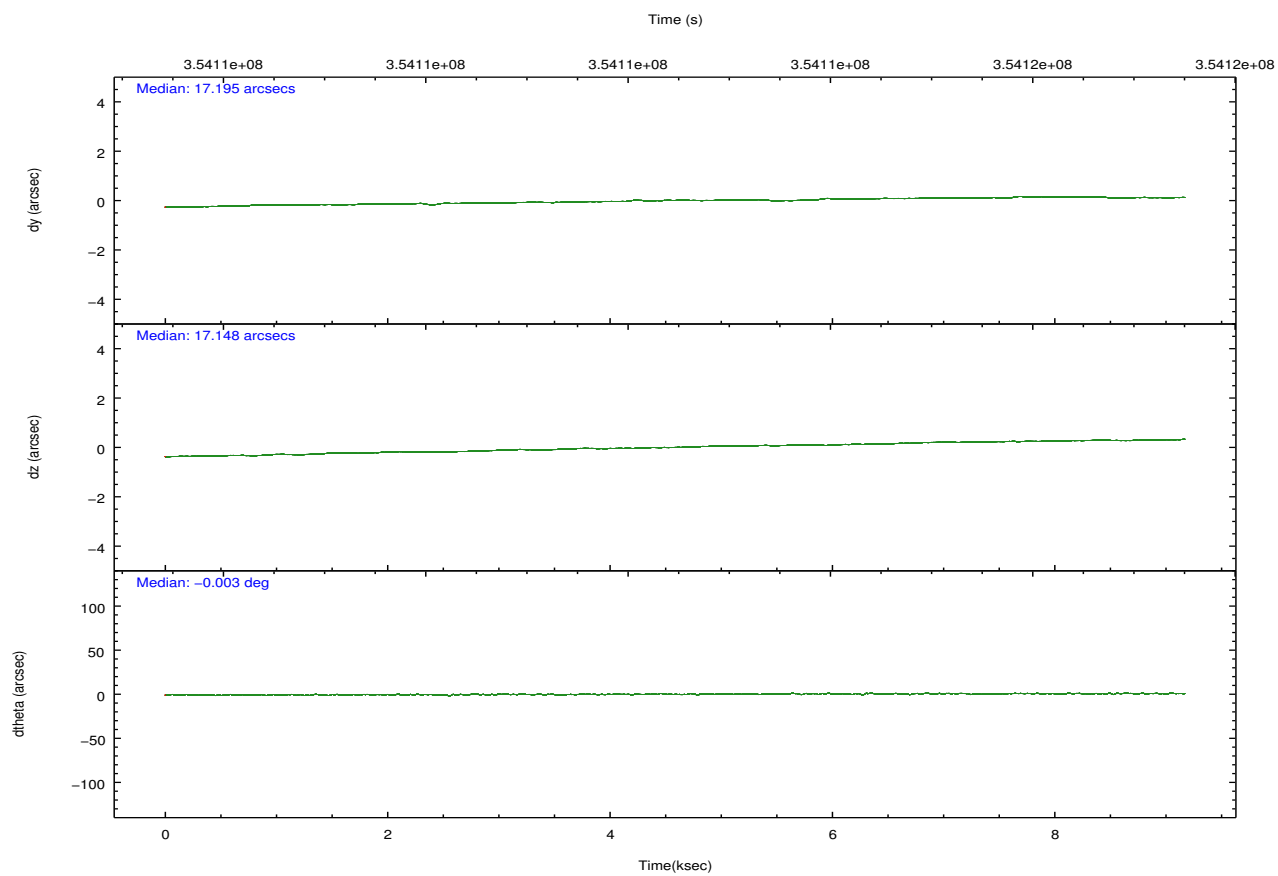
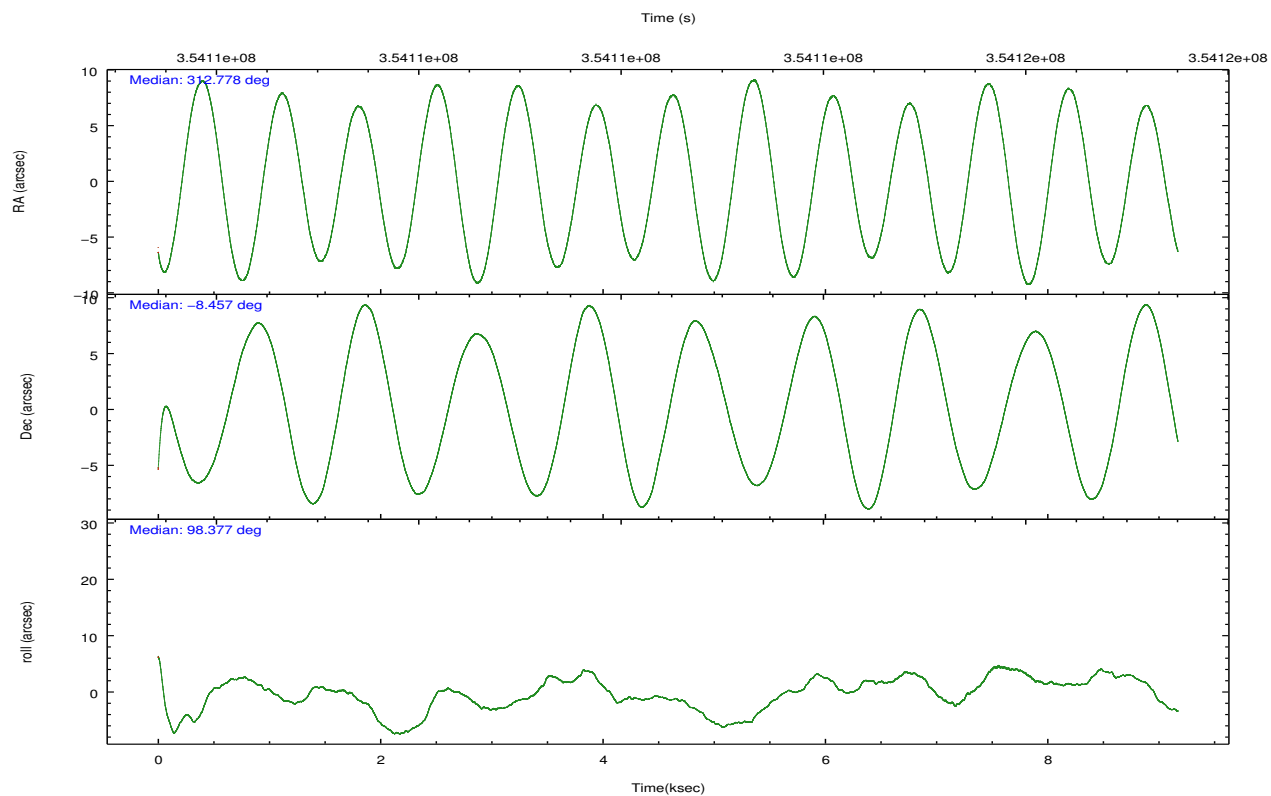
	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 1	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	63309	71209	63924	70509	41048	87053	grade 0 events	2500	2424	2285	2583	3159	6583
rejected events	56979	65518	58481	64374	18228	63604		3%	3%	3%	3%	7%	7%
rejected %	90%	92%	91%	91%	44%	73%	grade 1 events	35	36	40	32	126	78
								0%	0%	0%	0%	0%	0%
							grade 2 events	1456	1416	1205	1464	5768	5755
								2%	1%	1%	2%	14%	6%
							grade 3 events	694	618	589	655	2380	2621
								1%	0%	0%	0%	5%	3%
							grade 4 events	719	638	618	624	2326	2388
								1%	0%	0%	0%	5%	2%
							grade 5 events	1462	1146	1459	1434	4328	2531
								2%	1%	2%	2%	10%	2%
							grade 6 events	1148	777	932	1037	10042	6720
								1%	1%	1%	1%	24%	7%
							grade 7 events	55295	64154	56796	62680	12919	60377
								87%	90%	88%	88%	31%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-123678	ACIS-123678	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	O1	Y
[deg] Pointing RA	312.795556	312.7781013842328	CCD I2 on	Y	Y
[deg] Pointing Dec	-8.478042	-8.45684857440971	CCD I3 on	Y	Y
[deg] Pointing Roll	98.230954	98.38502518121481	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O2	Y
[s] Observation start time (MET)	354108043.184000	354106813.3298	CCD S5 on	N	N
Observation start date	2009-03-22T11:19:37	2009-03-22T11:00:13	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	354117042.184000	354117271.91782	On-chip summing requested	N	N
Observation end date	2009-03-22T13:49:36	2009-03-22T13:54:31	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



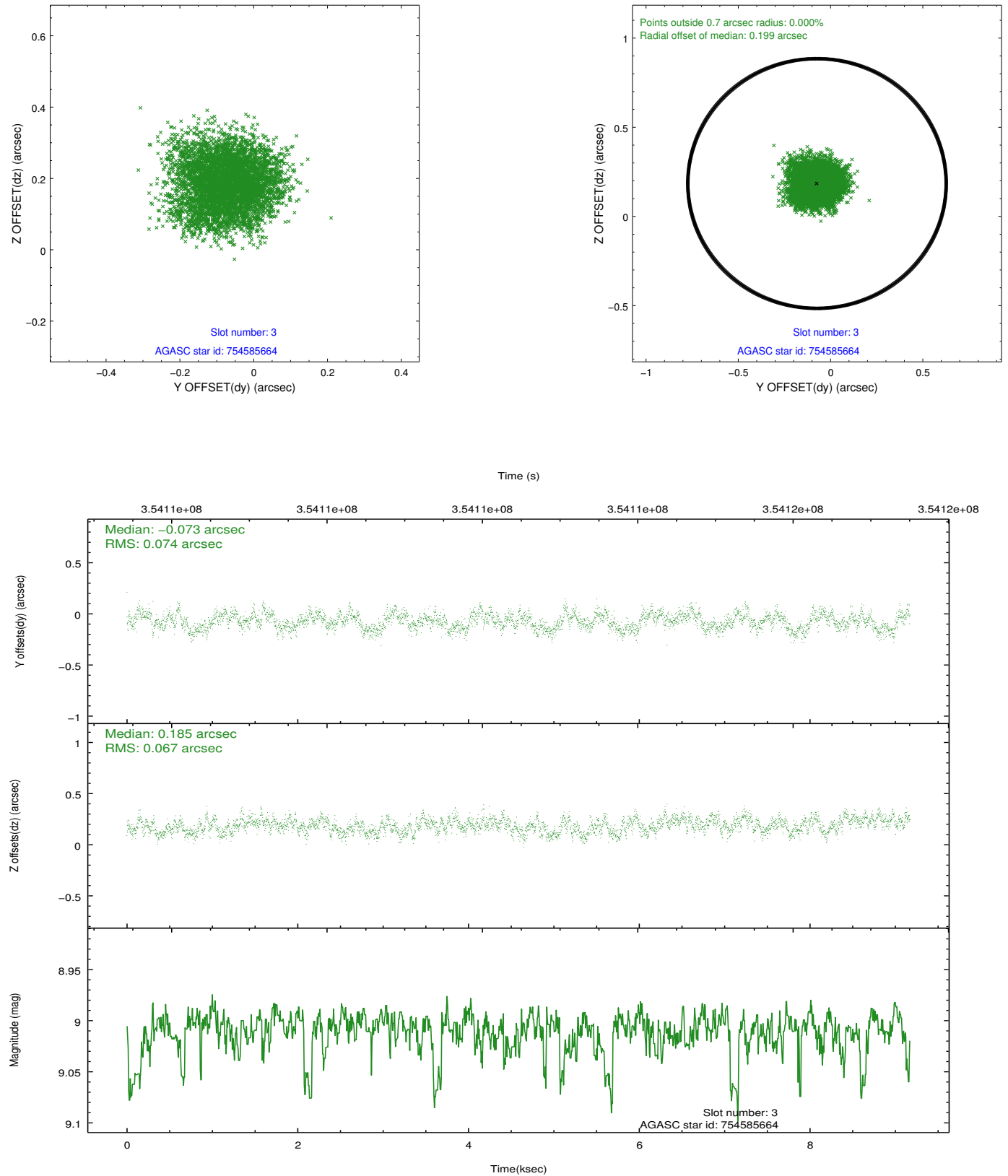


Slot Statistics

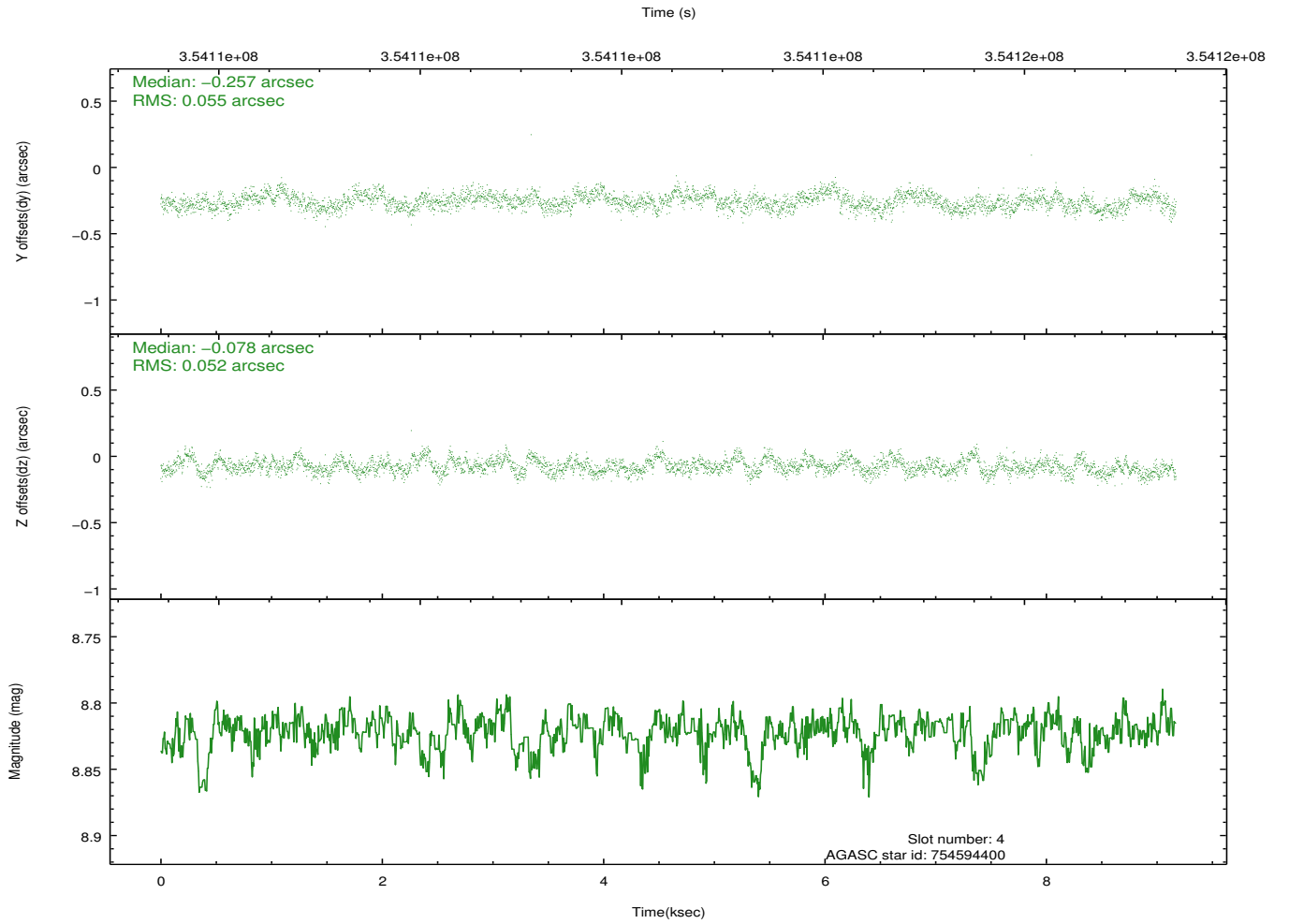
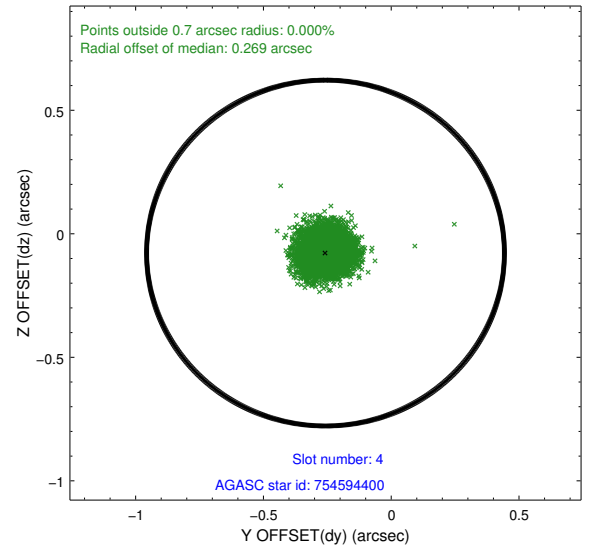
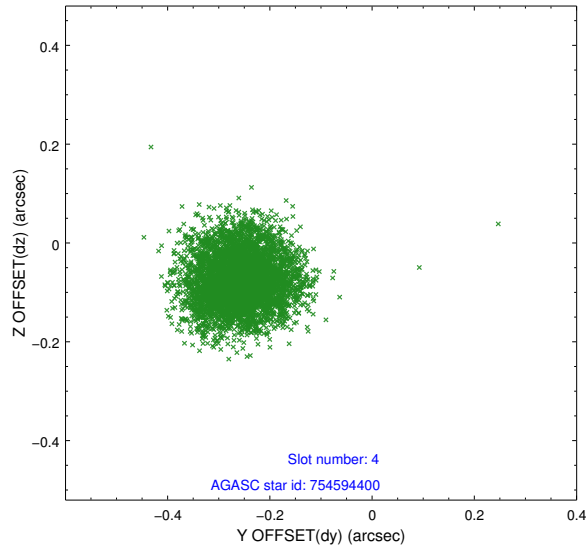
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.83	2238	-0.059	-0.031	0.008	0.014	0.000000	0.000000	-770.30	-1738.59
1	FID	ACIS-S-4	6.91	2238	0.173	0.037	0.008	0.016	0.000000	0.000000	2142.98	169.28
2	FID	ACIS-S-5	6.94	2238	-0.145	0.004	0.009	0.015	0.000000	0.000000	-1822.43	163.68
3	GUIDE	754585664	9.01	4466	-0.073	0.185	0.108	0.166	313.121538	-8.063030	1312.08	-1363.40
4	GUIDE	754594400	8.82	4453	-0.257	-0.078	0.082	0.128	312.179121	-7.989279	2054.27	1923.35
5	GUIDE	754594632	6.42	4475	-0.001	-0.124	0.059	0.095	312.330933	-8.794047	-890.14	1799.09
6	GUIDE	754595784	8.49	4469	0.134	0.036	0.070	0.113	312.372598	-8.652506	-408.05	1583.67
7	GUIDE	754594832	9.10	4470	0.196	-0.019	0.080	0.132	312.288462	-8.768707	-779.55	1935.80

2.4 Star Slots

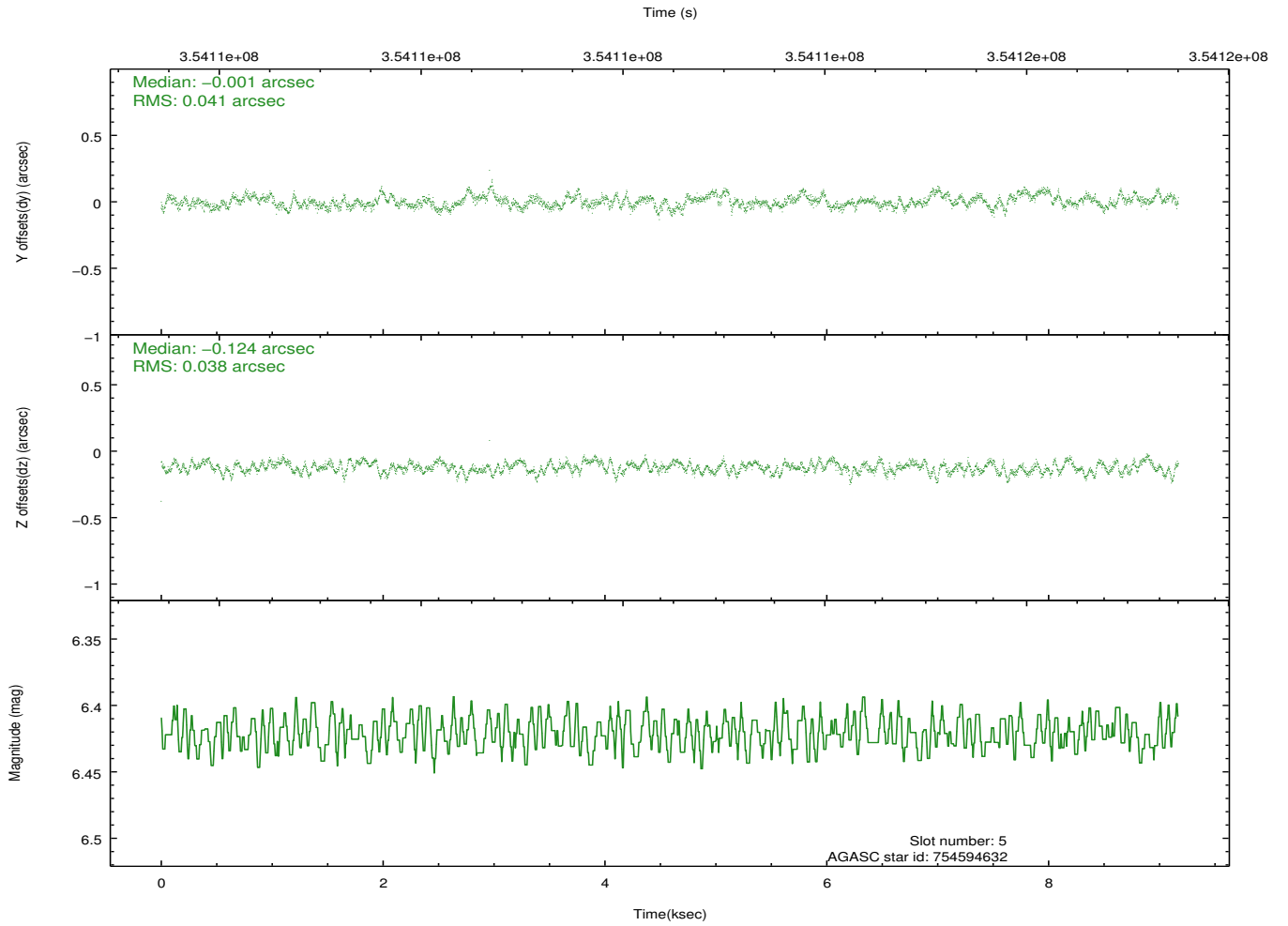
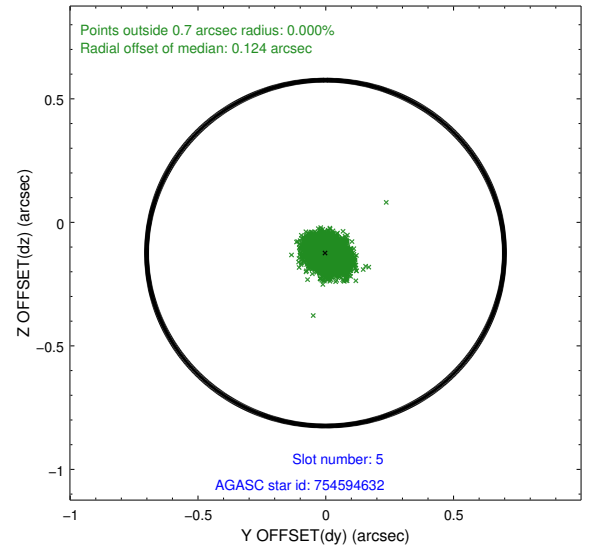
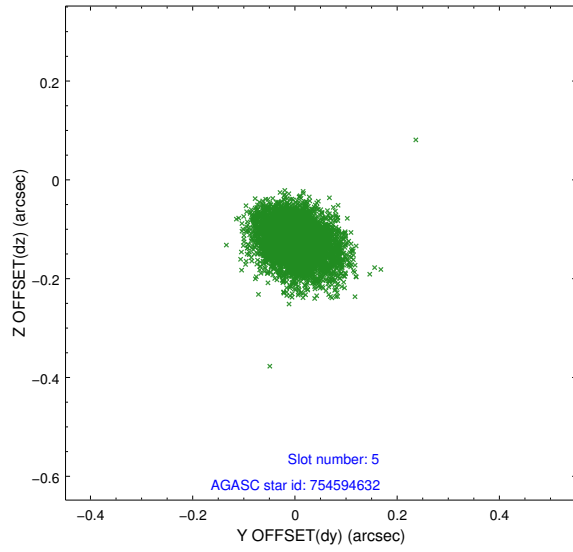
2.4.1 Slot 3



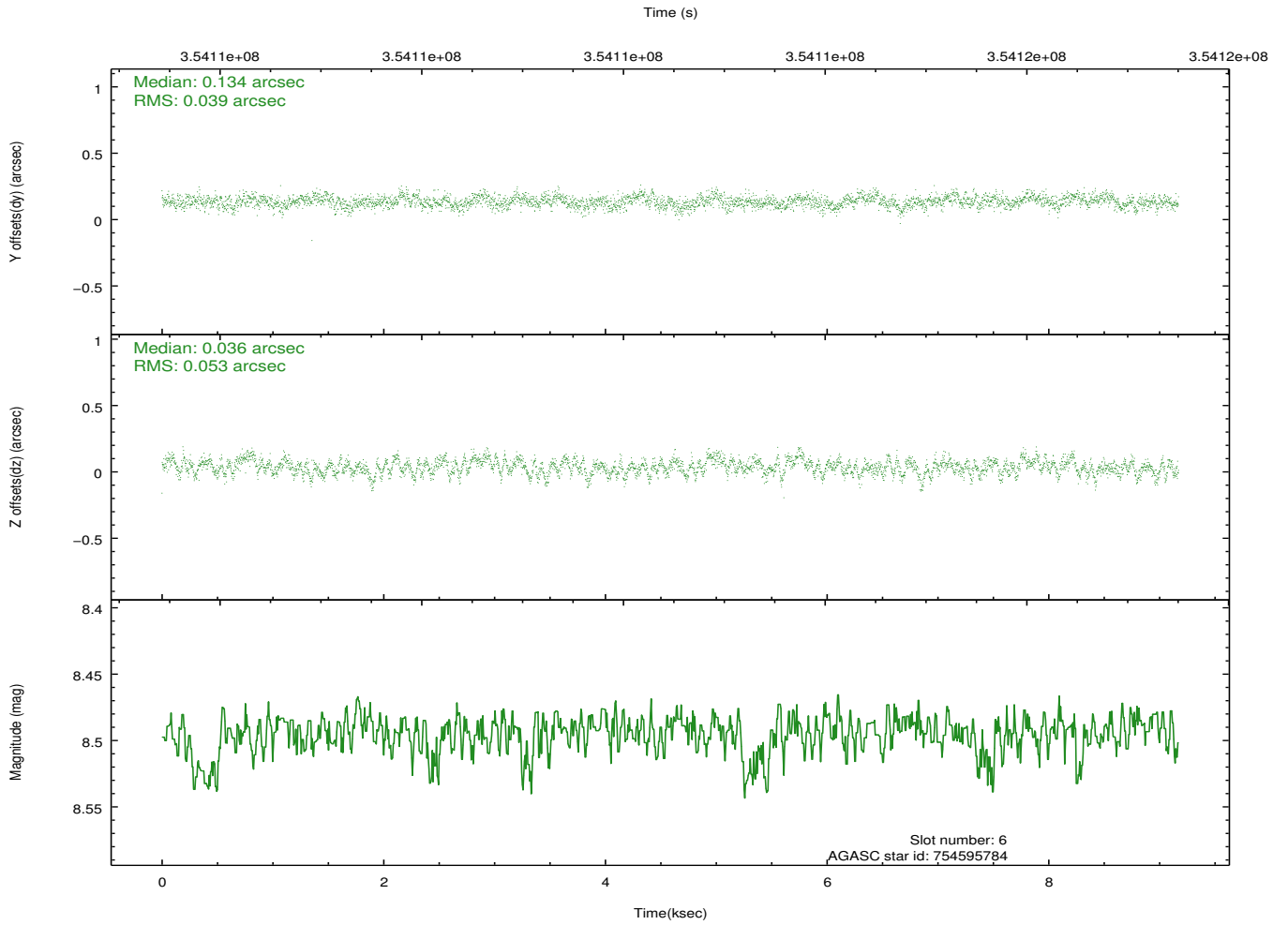
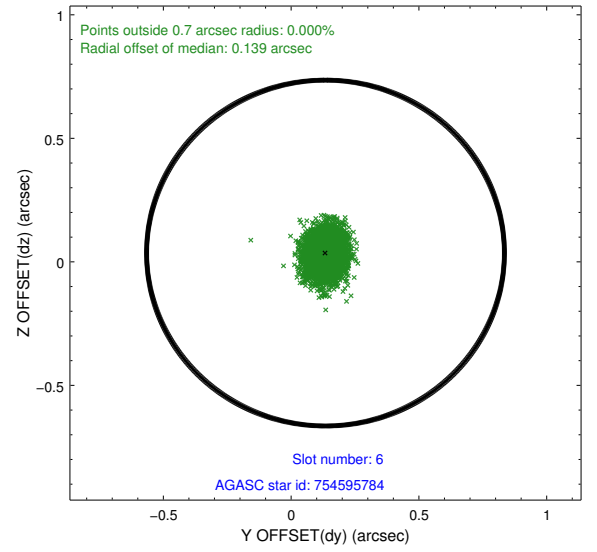
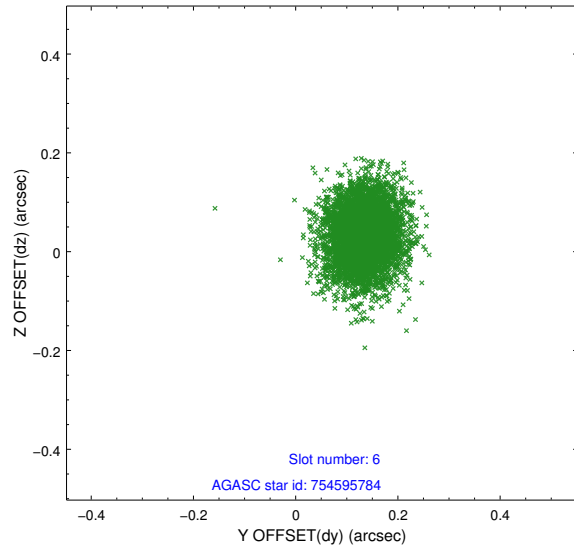
2.4.2 Slot 4



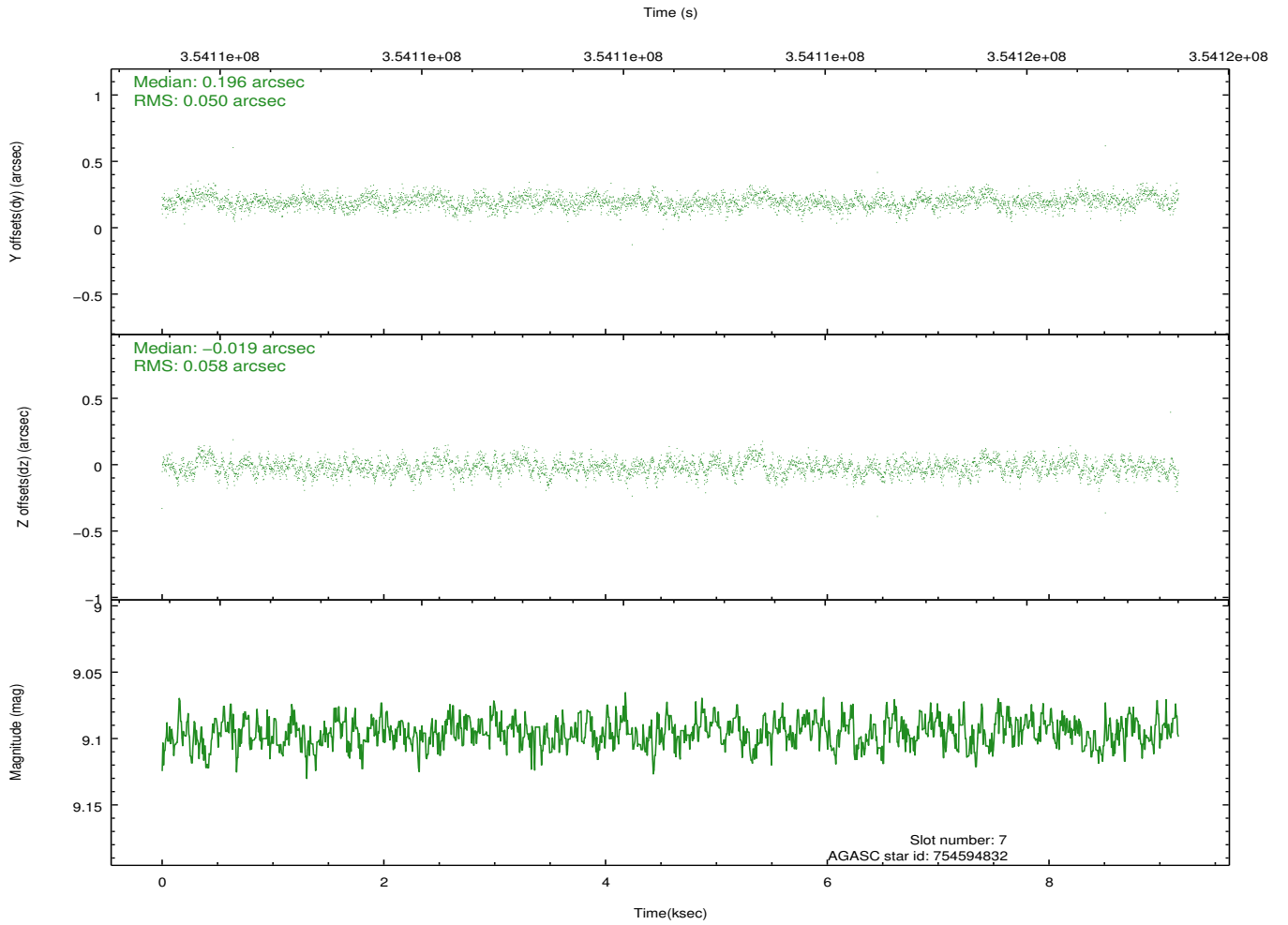
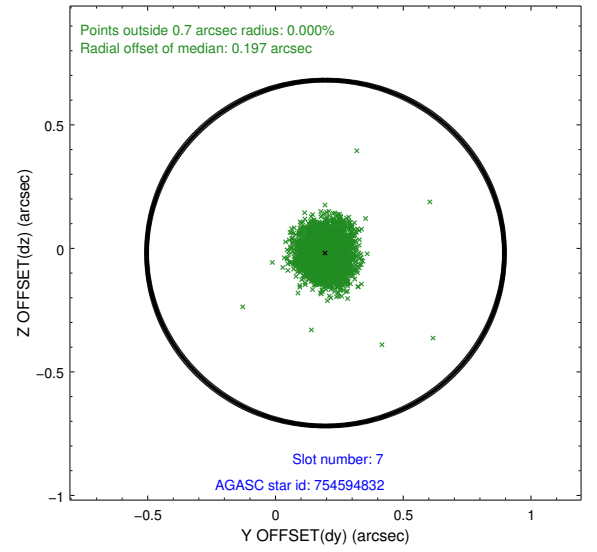
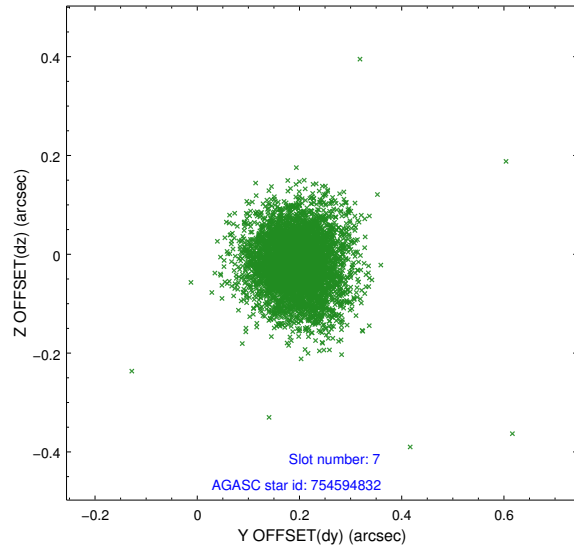
2.4.3 Slot 5



2.4.4 Slot 6

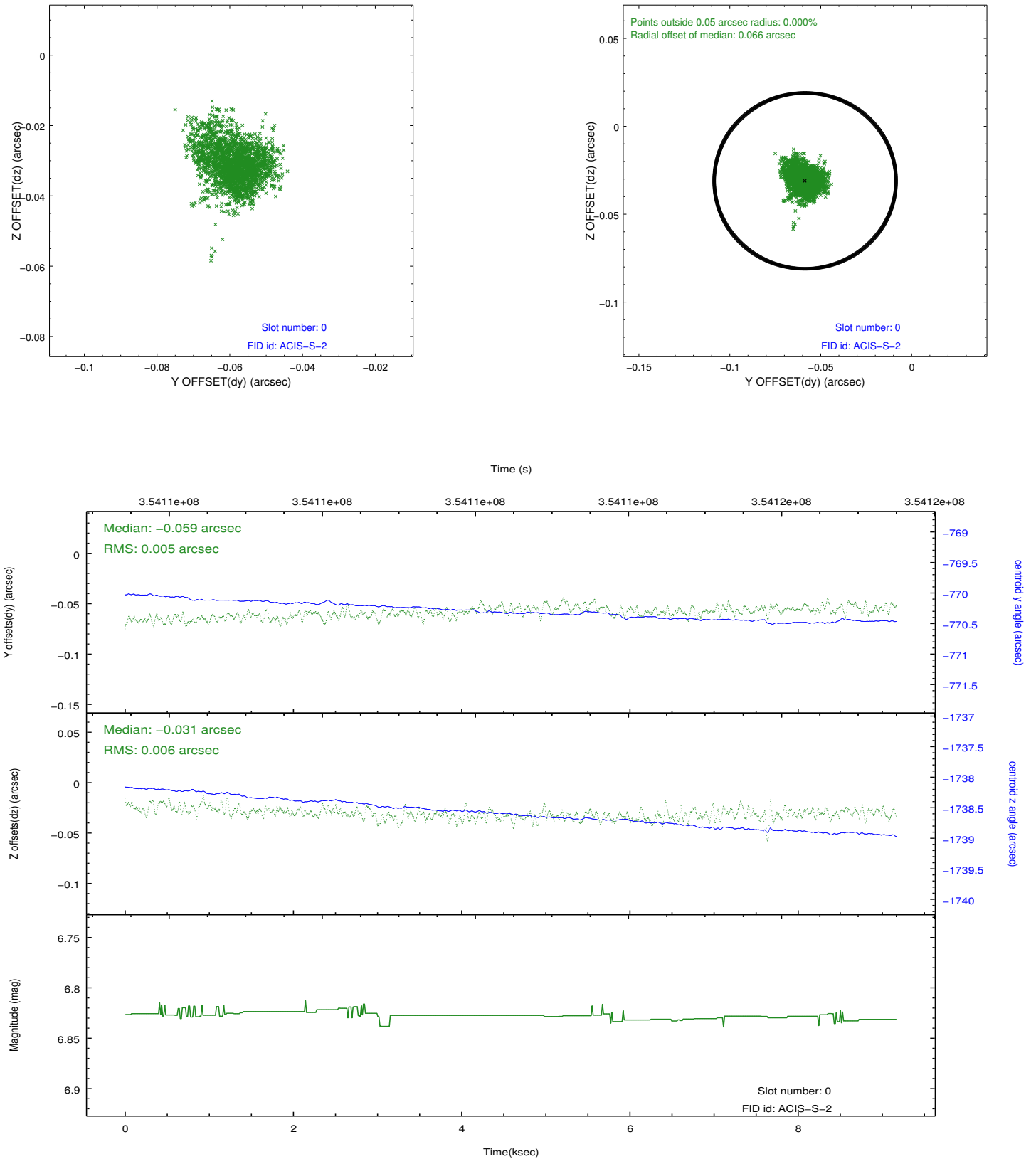


2.4.5 Slot 7

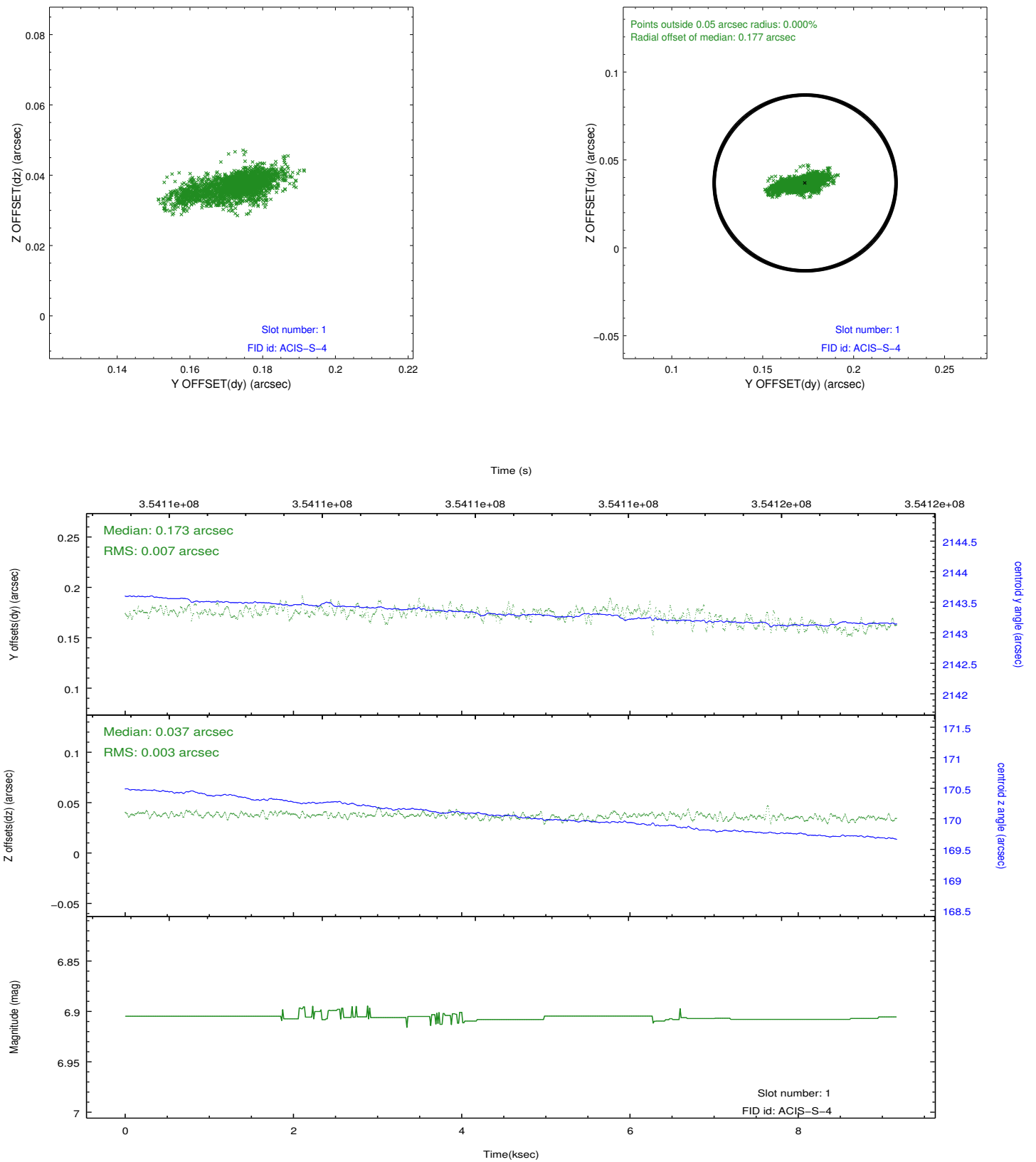


2.5 FID Slots

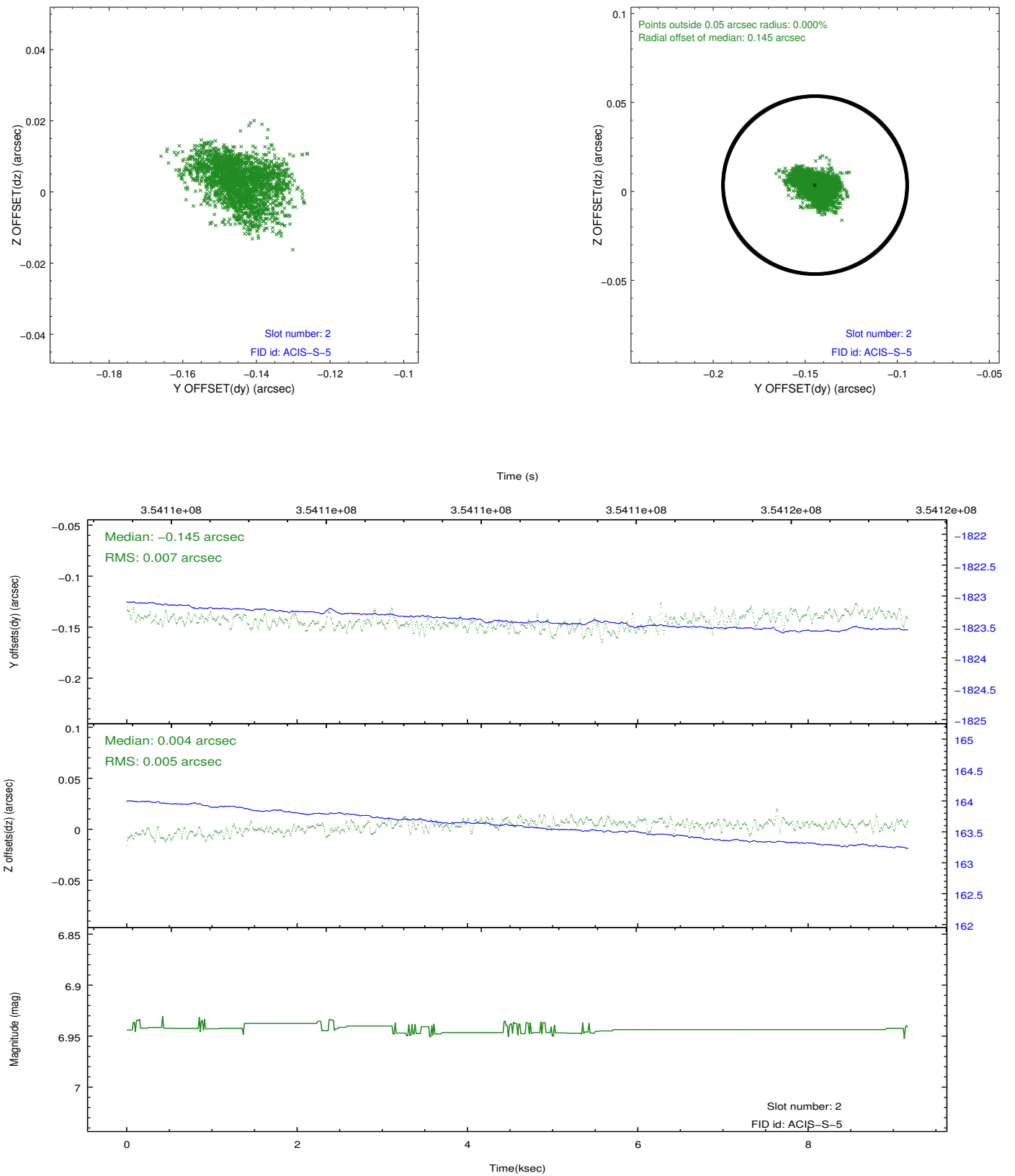
2.5.1 Slot 0



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)	2012.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.16479996

A.2 Comments