

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9788 - L2 Version 2
Chandra X-Ray Center

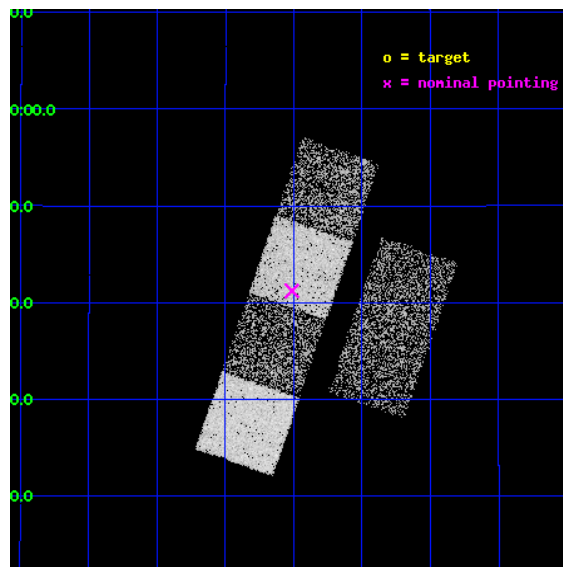
L2 Processing Date : May 7 2012

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

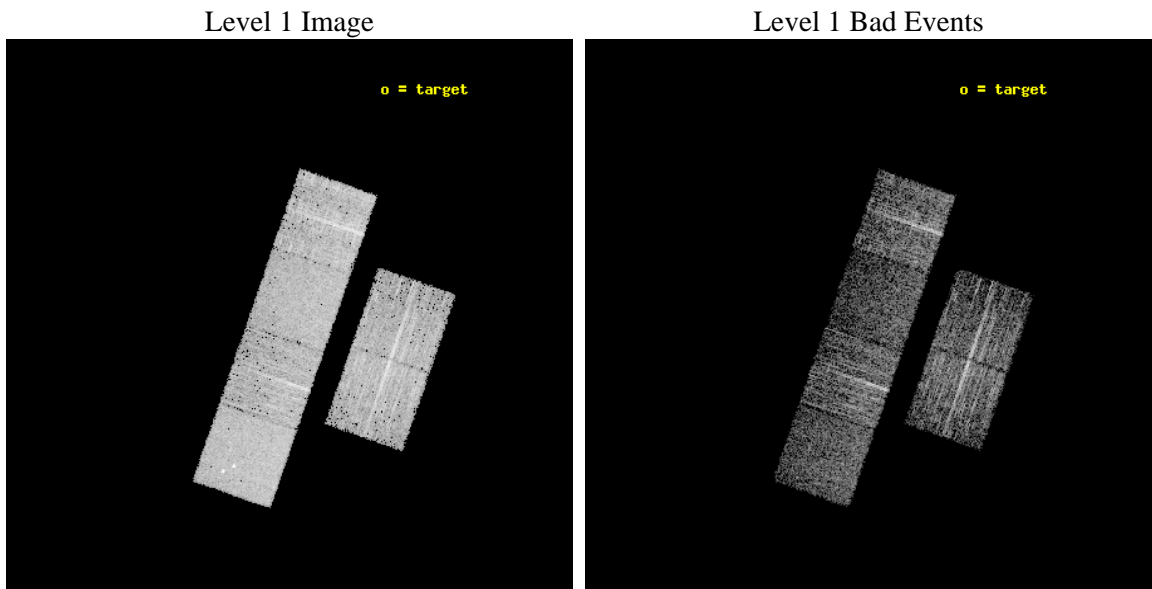
seq_num	100070	Sequence number
obs_id	9788	Observation id
title	High Resolution Imaging and Spectroscopy of 8P/Tuttle	Proposal tit
observer	Dr Damian Christian	Principal investigator
object	8P/Tuttle (2008)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	24.054167	Observer's specified target RA [deg]
dec_targ	26.219722	Observer's specified target Dec [deg]
ra_nom	26.003231064283	Nominal RA [deg]
dec_nom	17.68717971701	Nominal Dec [deg]
roll_nom	289.10787562524	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3193.5999881625	Sum of GTIs [s]
livetime	3153.1607021574	Livetime [s]
ontime2	3193.5999881625	Sum of GTIs [s]
ontime3	3193.5999881625	Sum of GTIs [s]
ontime5	3193.5999881625	Sum of GTIs [s]
ontime6	3193.5999881625	Sum of GTIs [s]
ontime7	3193.5999881625	Sum of GTIs [s]
ontime8	3193.5999881625	Sum of GTIs [s]
l2events	39737	Number of level 2 events



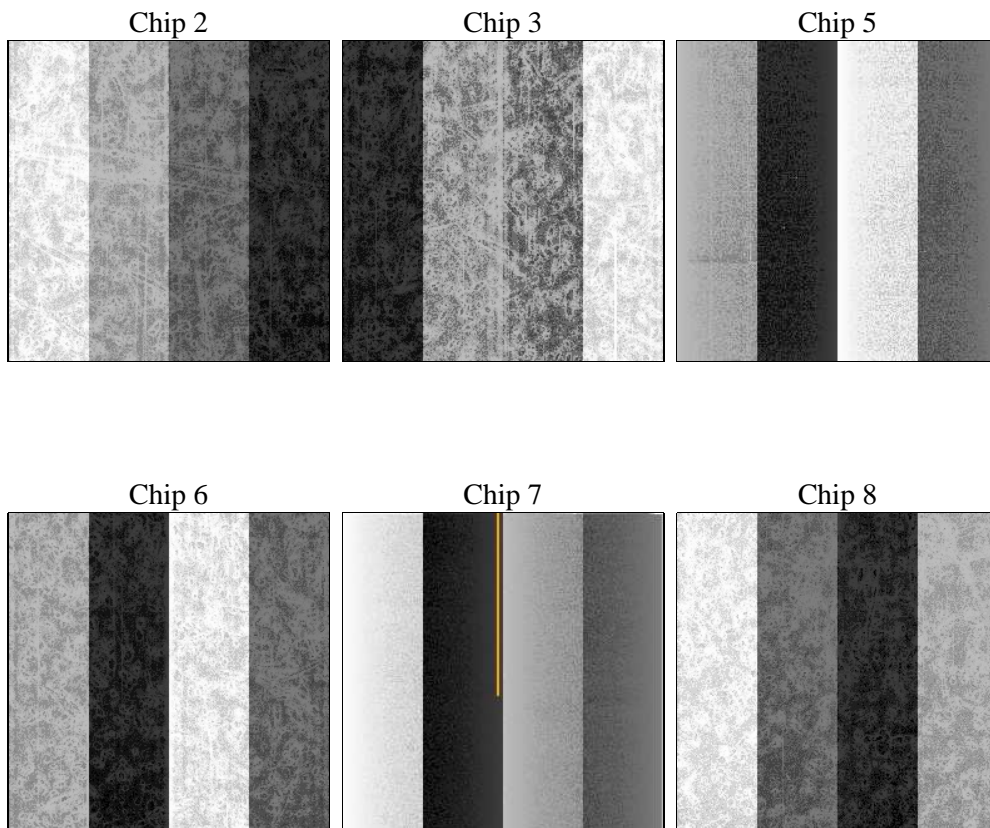
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	3193.5999881625	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	3193.5999881625	Sum of GTIs [s]
date	2012-05-07T14:24:12	Date and time of file creation	ontime3	3193.5999881625	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	3193.5999881625	Sum of GTIs [s]
			ontime6	3193.5999881625	Sum of GTIs [s]
			ontime7	3193.5999881625	Sum of GTIs [s]
			ontime8	3193.5999881625	Sum of GTIs [s]
			l1events	199908	Number of level 1 events

2.1.4 Events

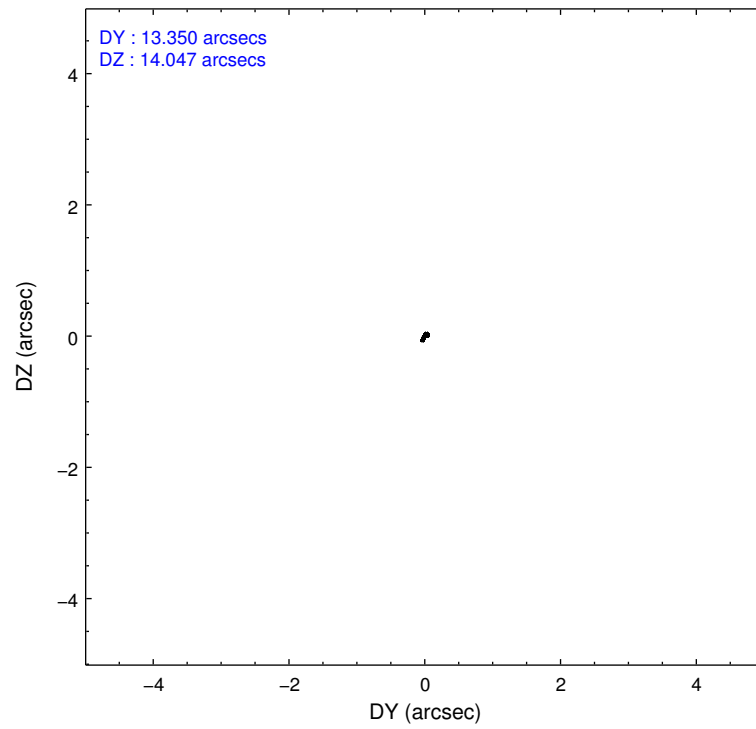
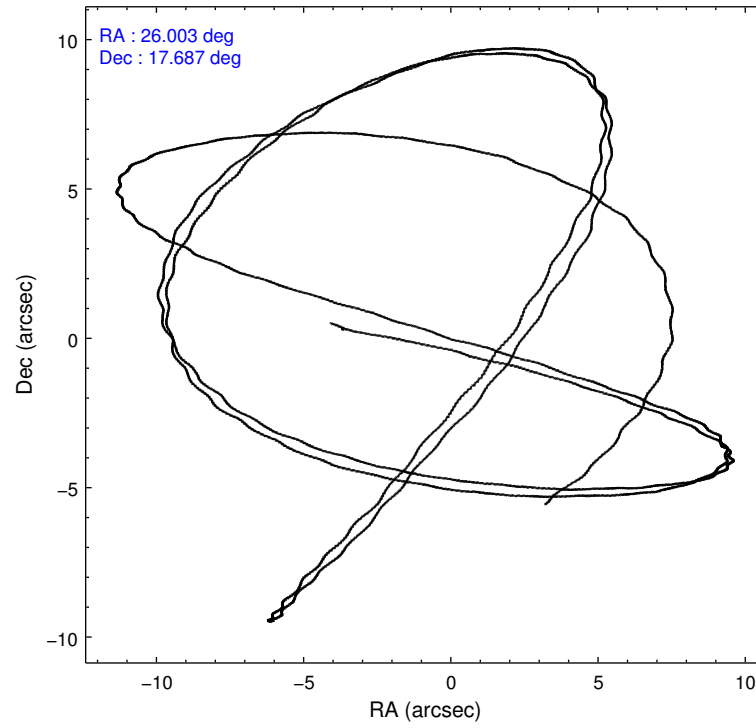
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	31586	27859	39718	30220	32625	37900	grade 0 events	1030	957	2044	1078	1548	2740
rejected events	29030	25438	21611	27436	19053	29801		3%	3%	5%	3%	4%	7%
rejected %	91%	91%	54%	90%	58%	78%	grade 1 events	6	15	85	12	42	30
								0%	0%	0%	0%	0%	0%
							grade 2 events	626	551	5870	679	3035	1921
								1%	1%	14%	2%	9%	5%
							grade 3 events	299	316	772	358	1332	1035
								0%	1%	1%	1%	4%	2%
							grade 4 events	318	272	711	339	1286	903
								1%	0%	1%	1%	3%	2%
							grade 5 events	934	1175	3089	1113	3334	1702
								2%	4%	7%	3%	10%	4%
							grade 6 events	527	571	10446	651	7731	2241
								1%	2%	26%	2%	23%	5%
							grade 7 events	27846	24002	16701	25990	14317	27328
								88%	86%	42%	86%	43%	72%

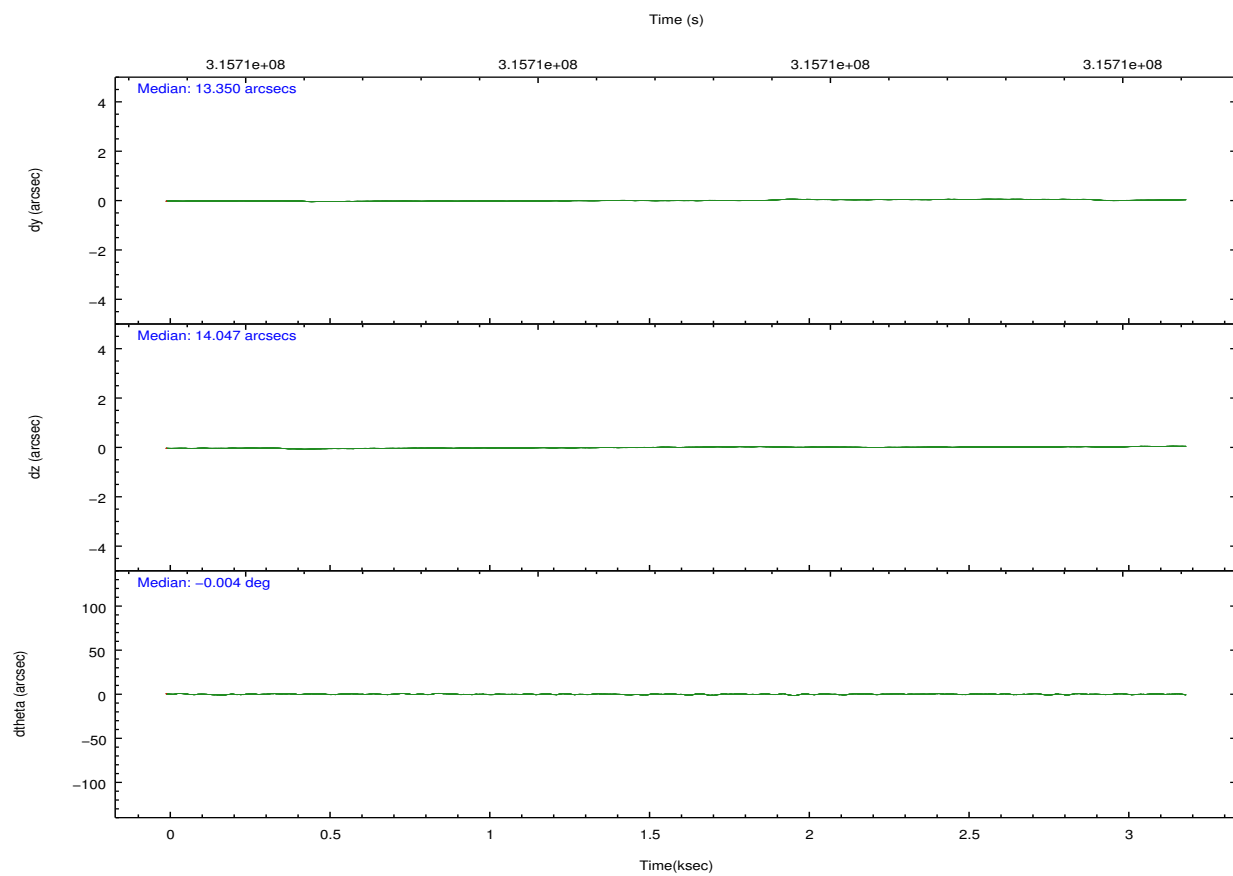
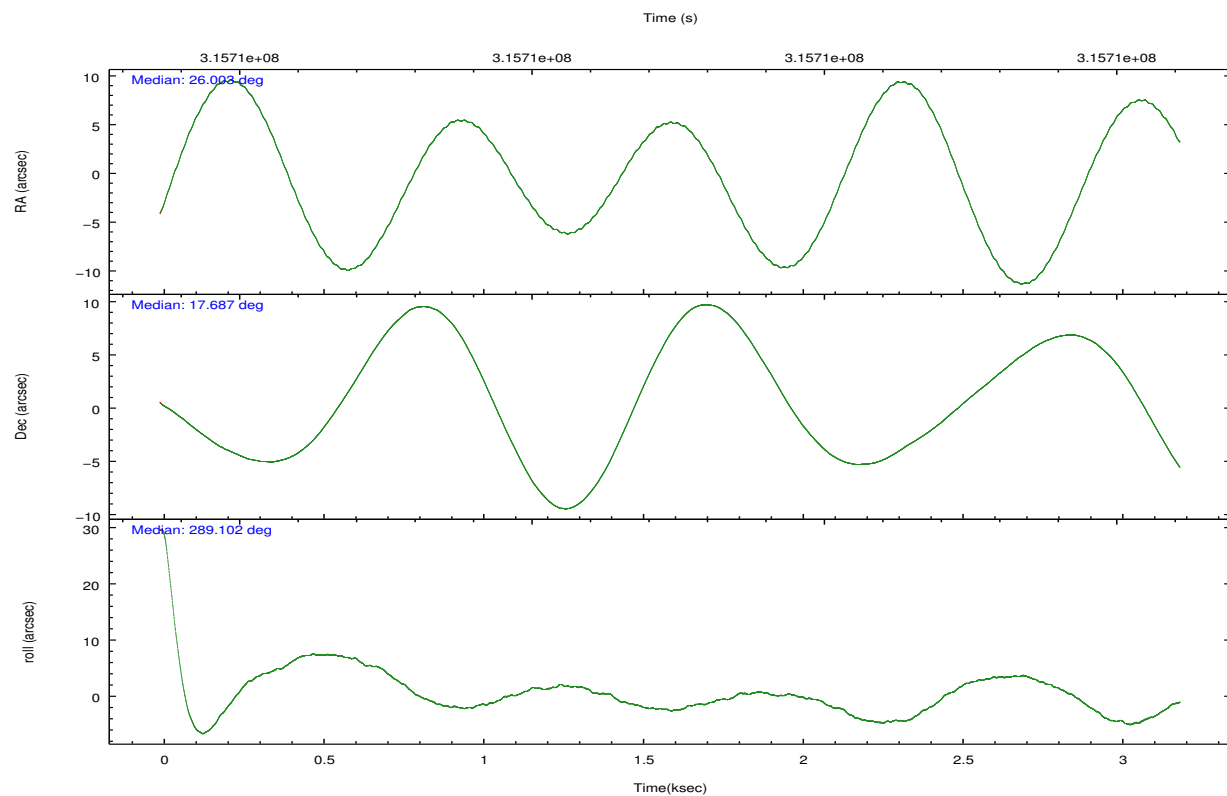
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	25.981084	26.00323106428317
[deg] Pointing Dec	17.704788	17.68717971700963
[deg] Pointing Roll	288.957845	289.1078756252391
[s] Window start time (MET)	314928065.184000	314928065.184000
[s] Window stop time (MET)	316828805.184000	316828805.184000
[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)	315710067.184000	315709691.03644
Observation start date	2008-01-03T01:13:22	2008-01-03T01:08:11
[s] Observation end time (MET)	315713067.184000	315713201.14911
Observation end date	2008-01-03T02:03:22	2008-01-03T02:06:41
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	3.2

2.3 Aspect



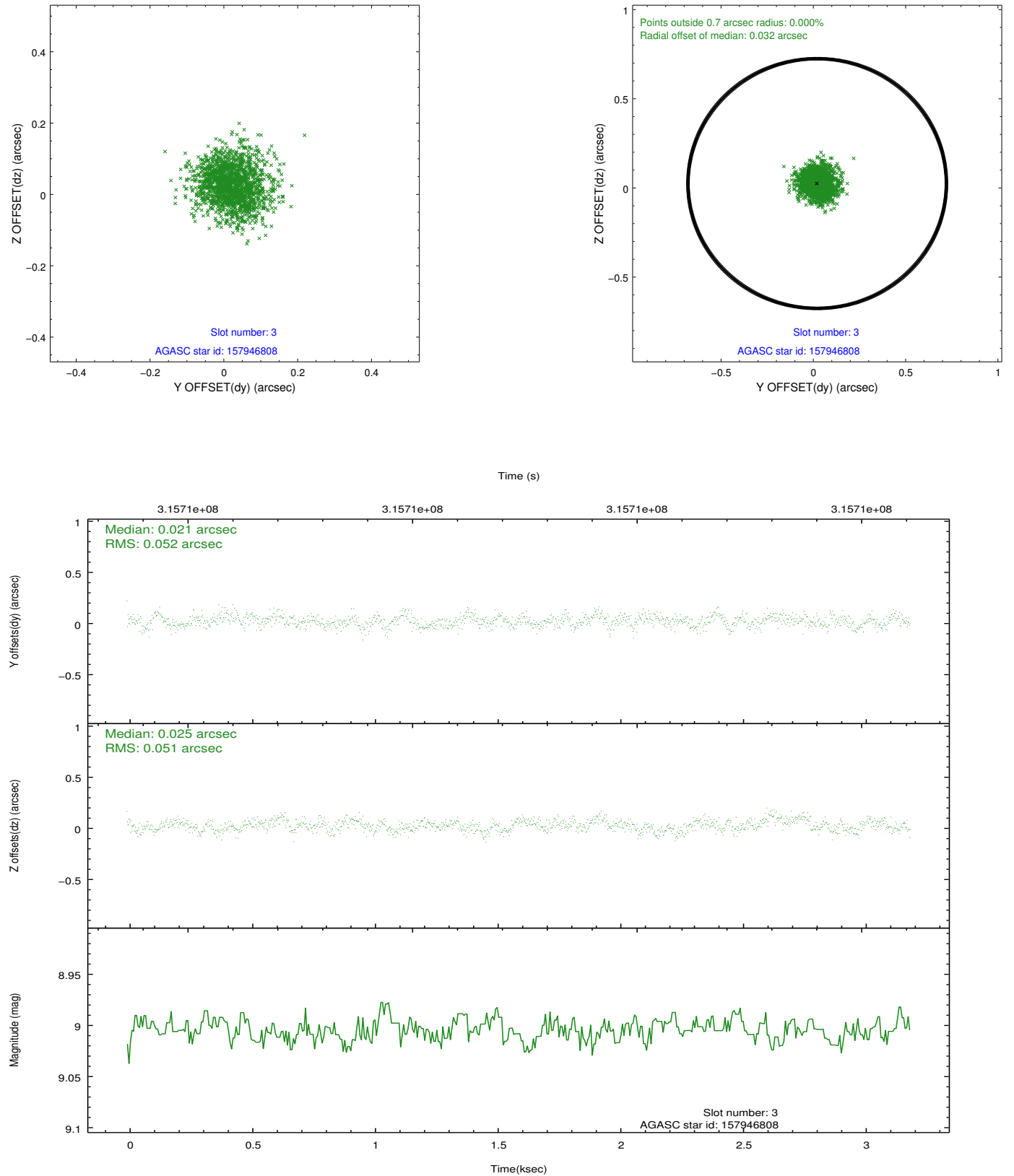


Slot Statistics

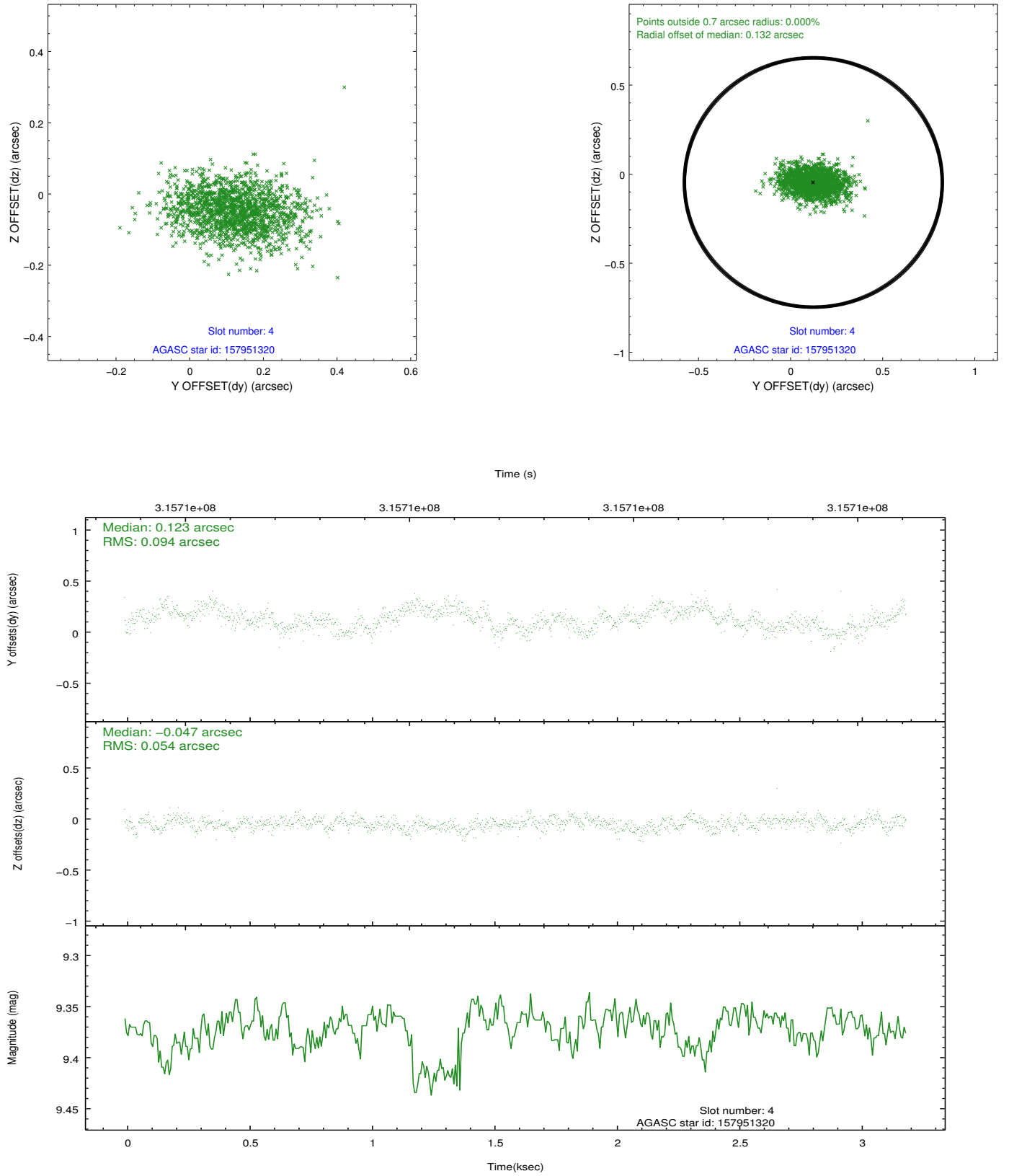
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	779	-0.046	-0.063	0.007	0.012	0.000000	0.000000	-766.32	-1735.41
1	FID	ACIS-S-4	7.19	779	0.182	0.039	0.006	0.011	0.000000	0.000000	2146.27	171.12
2	FID	ACIS-S-5	7.23	779	-0.167	0.033	0.007	0.012	0.000000	0.000000	-1816.74	167.04
3	GUIDE	157946808	9.00	1557	0.021	0.025	0.077	0.125	25.945545	17.122189	1944.09	-797.44
4	GUIDE	157951320	9.37	1557	0.123	-0.047	0.114	0.190	26.101194	17.063795	2318.24	-359.59
5	GUIDE	157955000	6.87	1558	-0.048	0.249	0.080	0.135	26.647080	17.412697	1735.34	1822.92
6	GUIDE	158074360	8.95	1558	0.150	0.011	0.087	0.138	26.791552	17.288165	2319.18	2150.32
7	GUIDE	158346592	10.14	1548	-0.262	-0.241	0.166	0.276	25.285861	17.873815	-1351.89	-2053.46

2.4 Star Slots

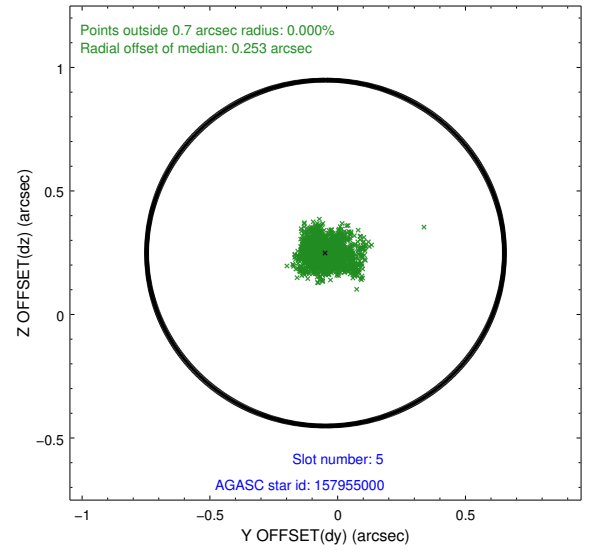
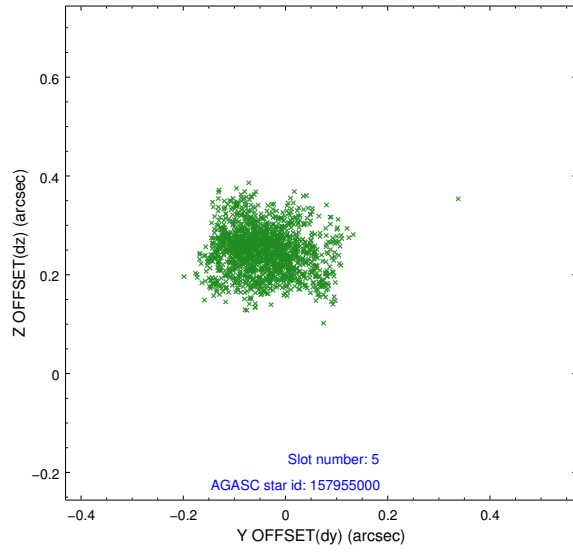
2.4.1 Slot 3



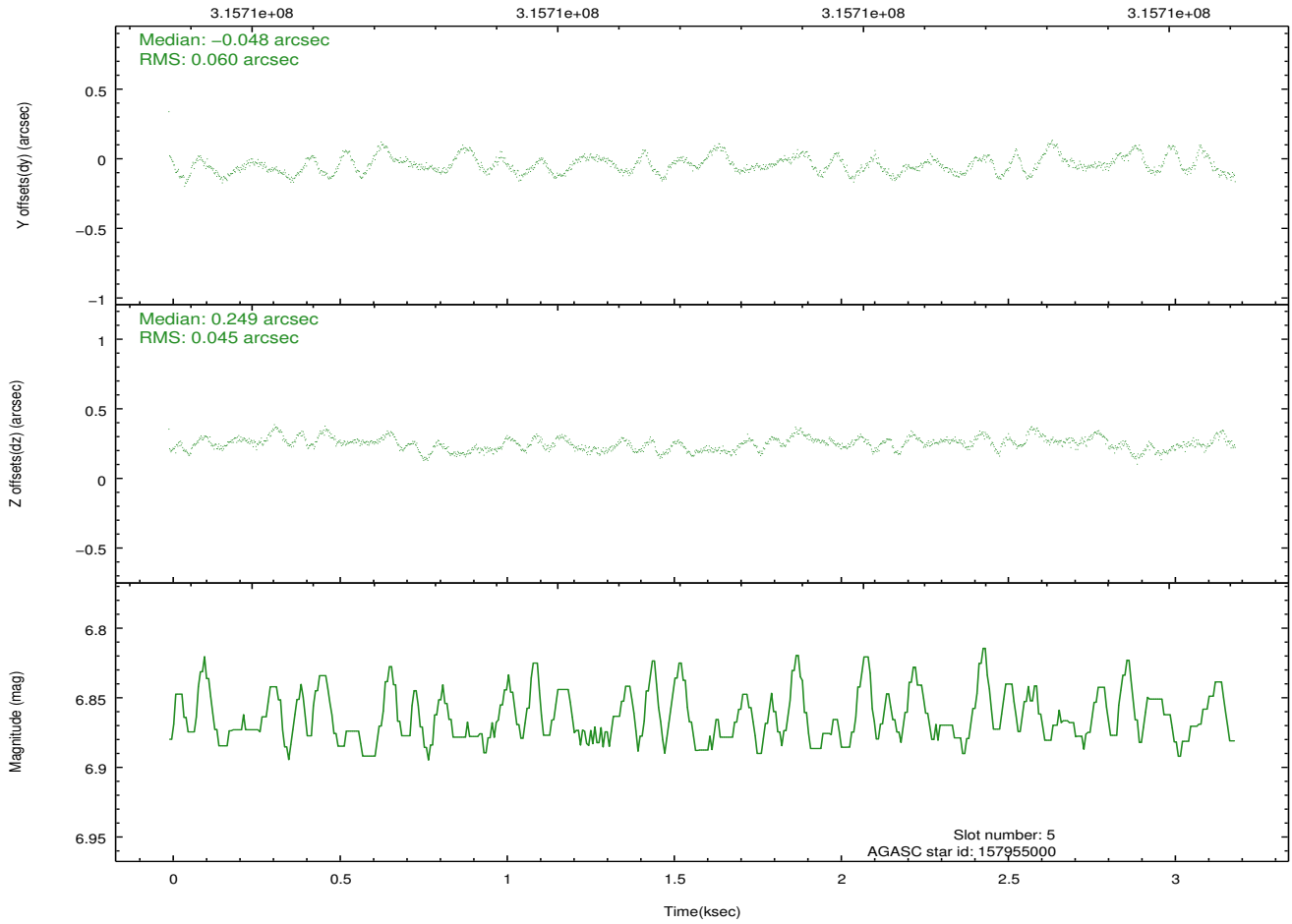
2.4.2 Slot 4



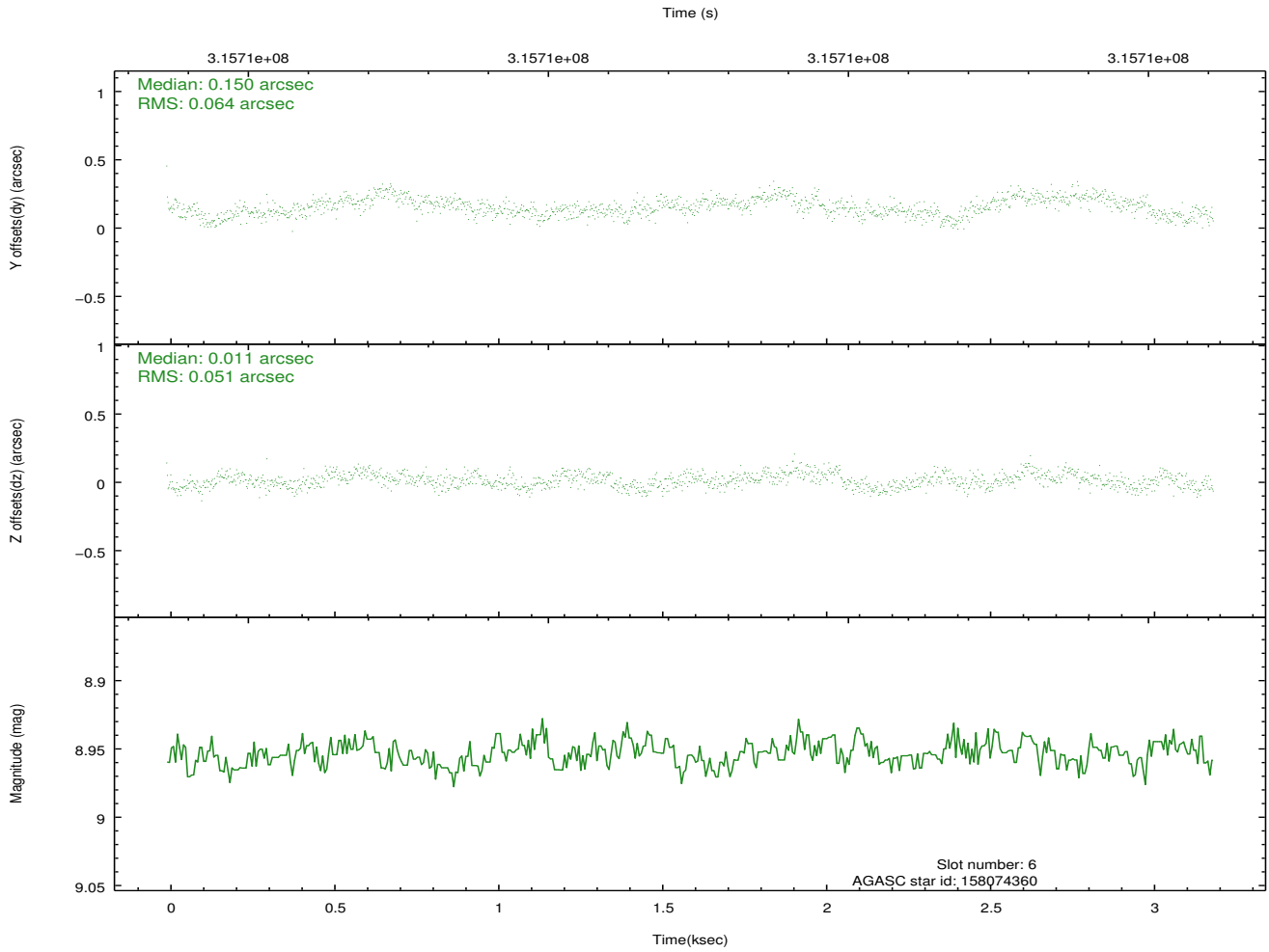
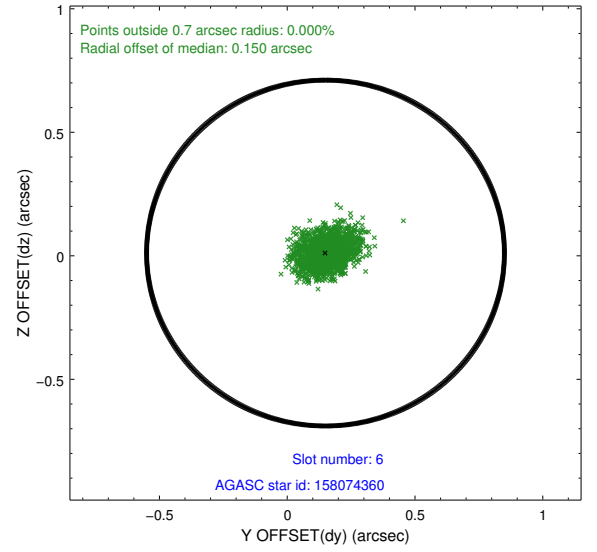
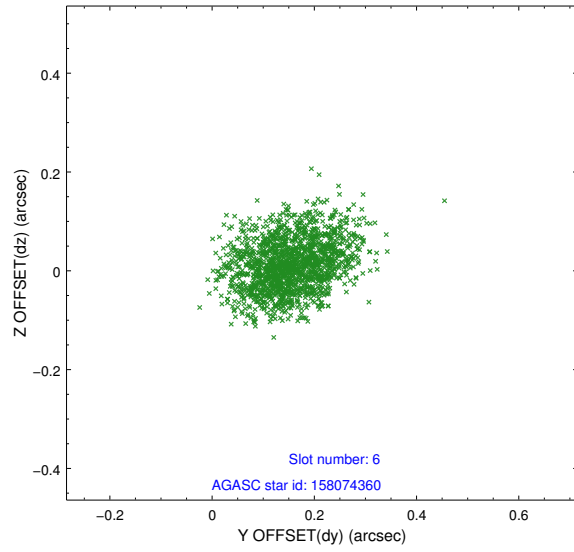
2.4.3 Slot 5



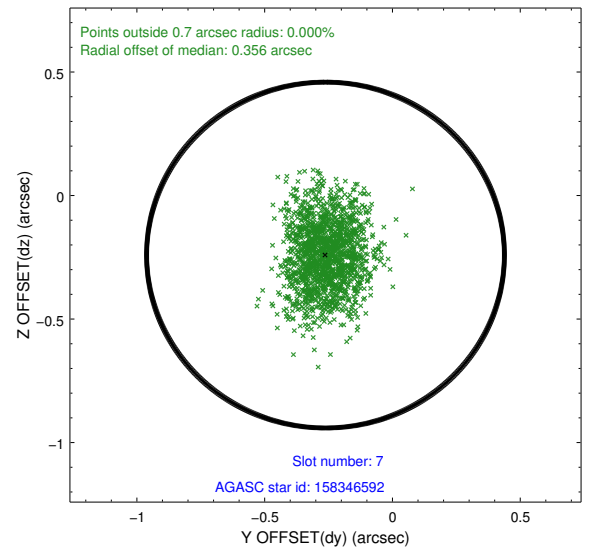
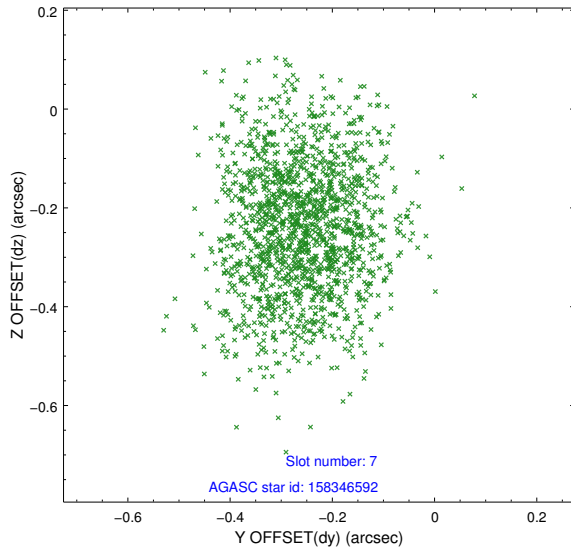
Time (s)



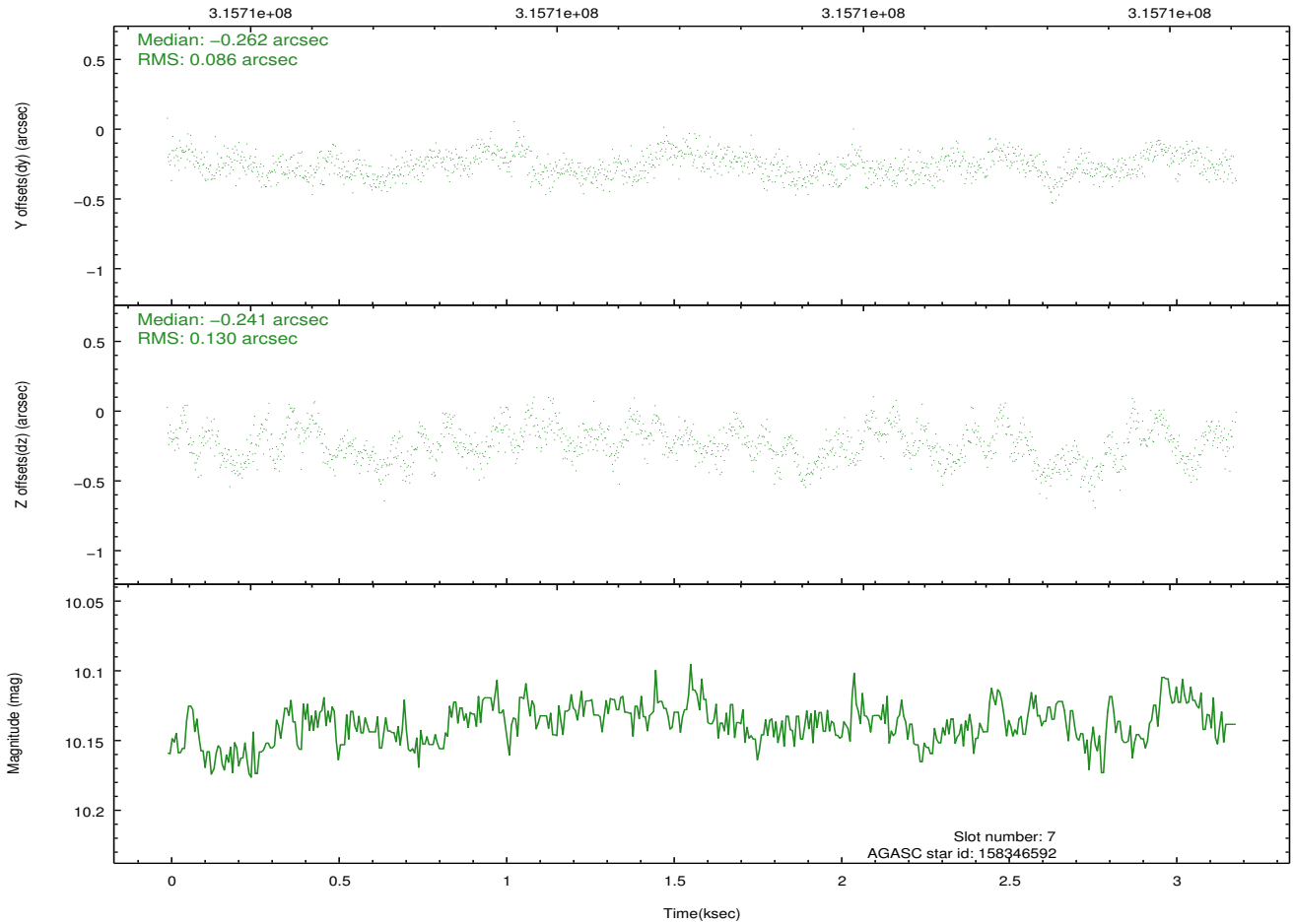
2.4.4 Slot 6



2.4.5 Slot 7

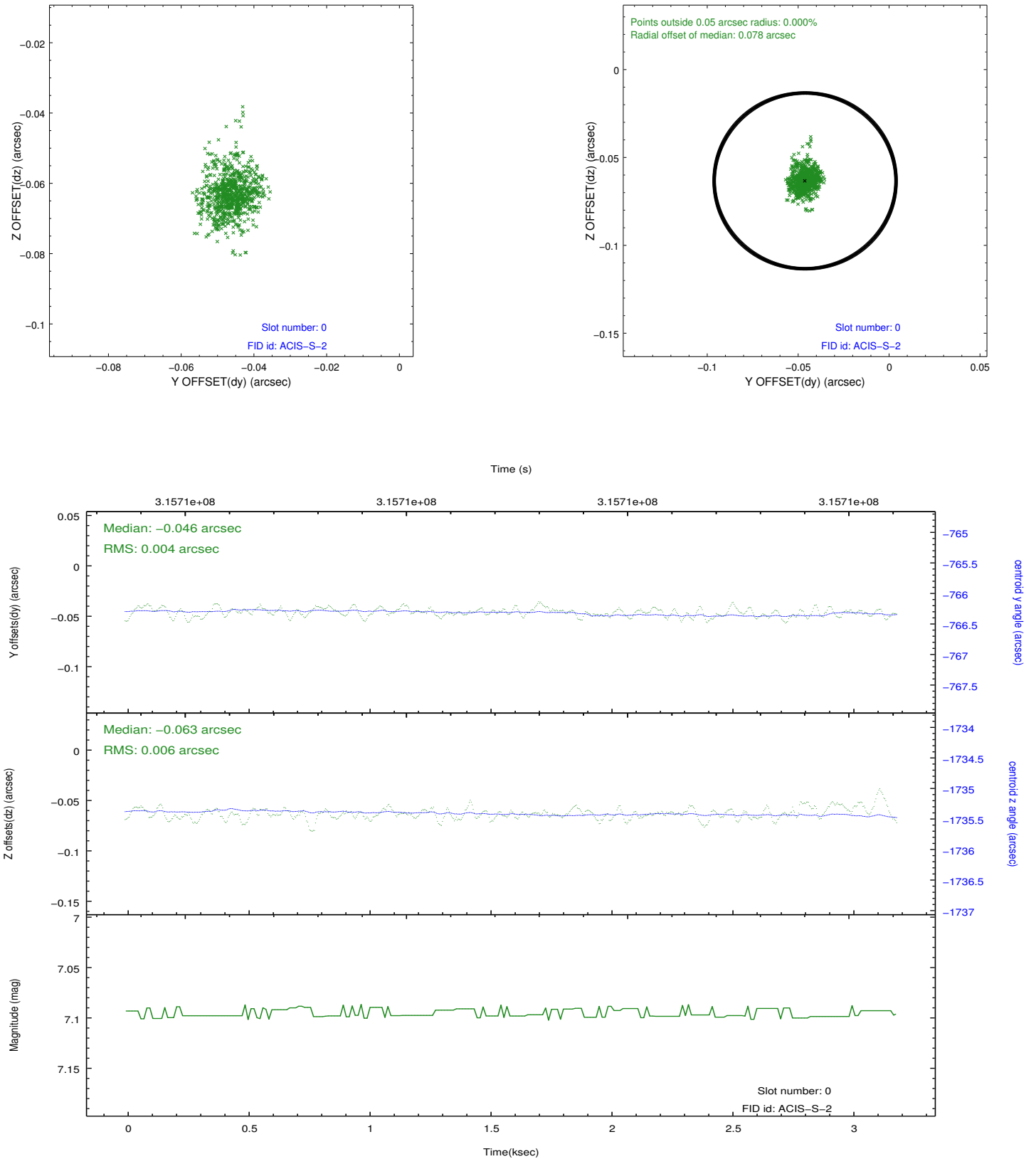


Time (s)

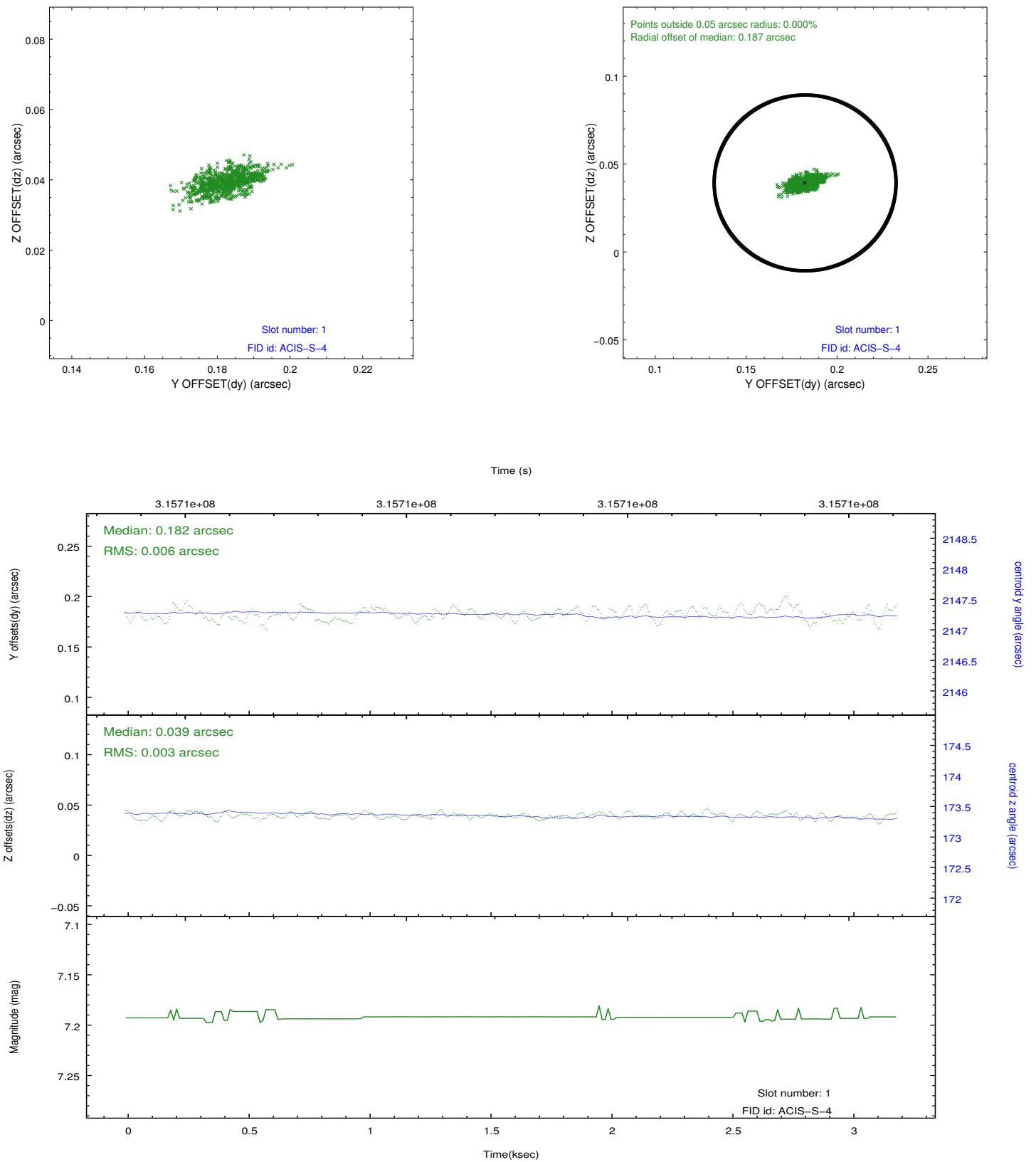


2.5 FID Slots

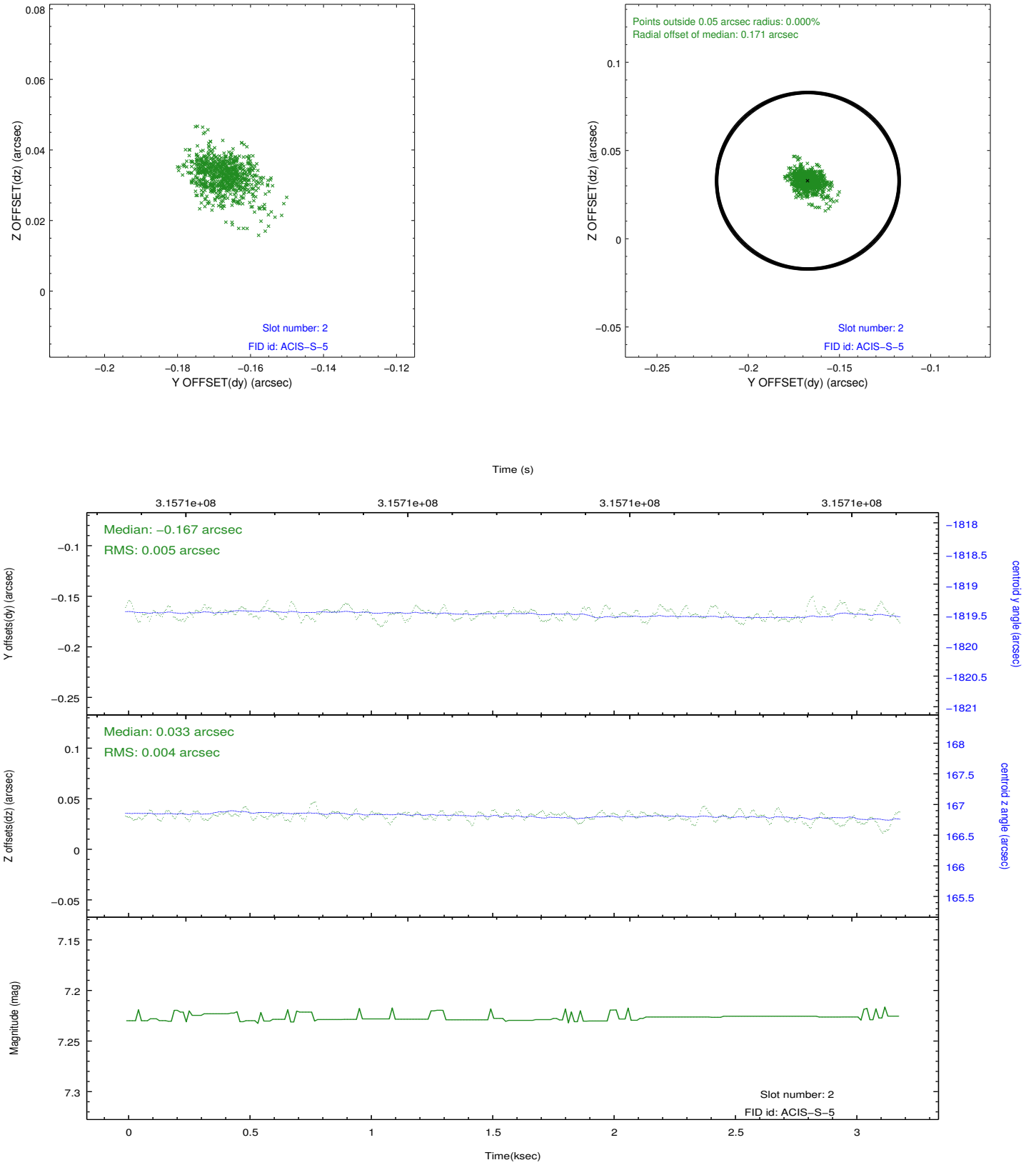
2.5.1 Slot 0



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)	2012.05.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.19359998

A.2 Comments

Window constraint met.