

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8107 - L2 Version 3
Chandra X-Ray Center

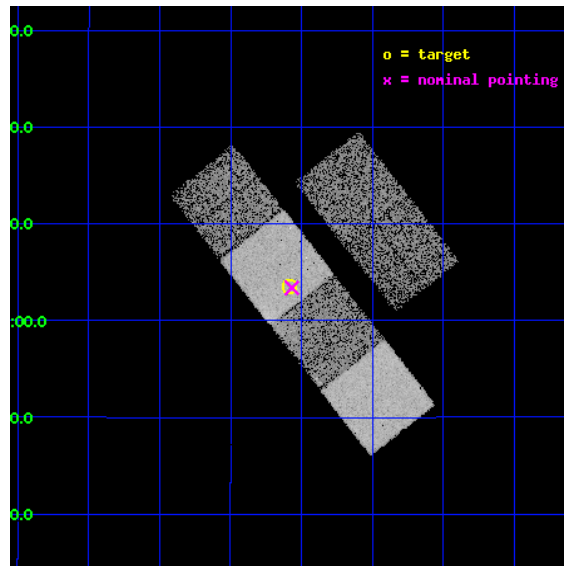
L2 Processing Date : Apr 23 2012

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1 Front

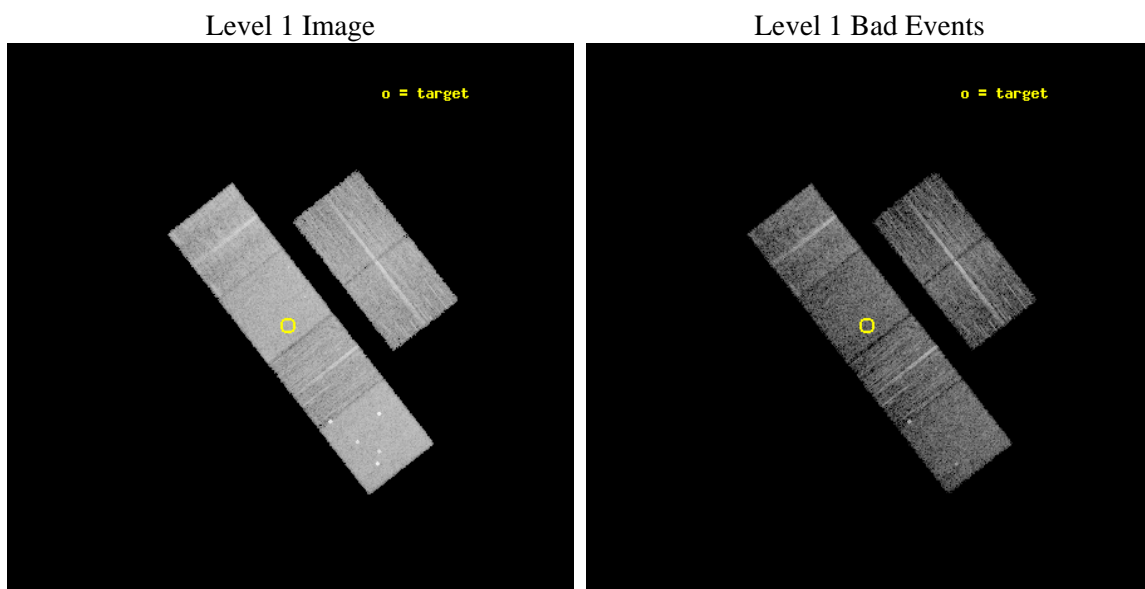
seq_num	900648	Sequence number
obs_id	8107	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1199	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.395833	Observer's specified target RA [deg]
dec_targ	8.058722	Observer's specified target Dec [deg]
ra_nom	187.39193620691	Nominal RA [deg]
dec_nom	8.0564084685238	Nominal Dec [deg]
roll_nom	231.88957487539	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5155.0009246469	Sum of GTIs [s]
livetime	5089.7251989701	Livetime [s]
ontime2	5155.0419646502	Sum of GTIs [s]
ontime3	5154.877804637	Sum of GTIs [s]
ontime5	5154.9598846436	Sum of GTIs [s]
ontime6	5154.9188446403	Sum of GTIs [s]
ontime7	5155.0009246469	Sum of GTIs [s]
ontime8	5151.59569484	Sum of GTIs [s]
l2events	84904	Number of level 2 events



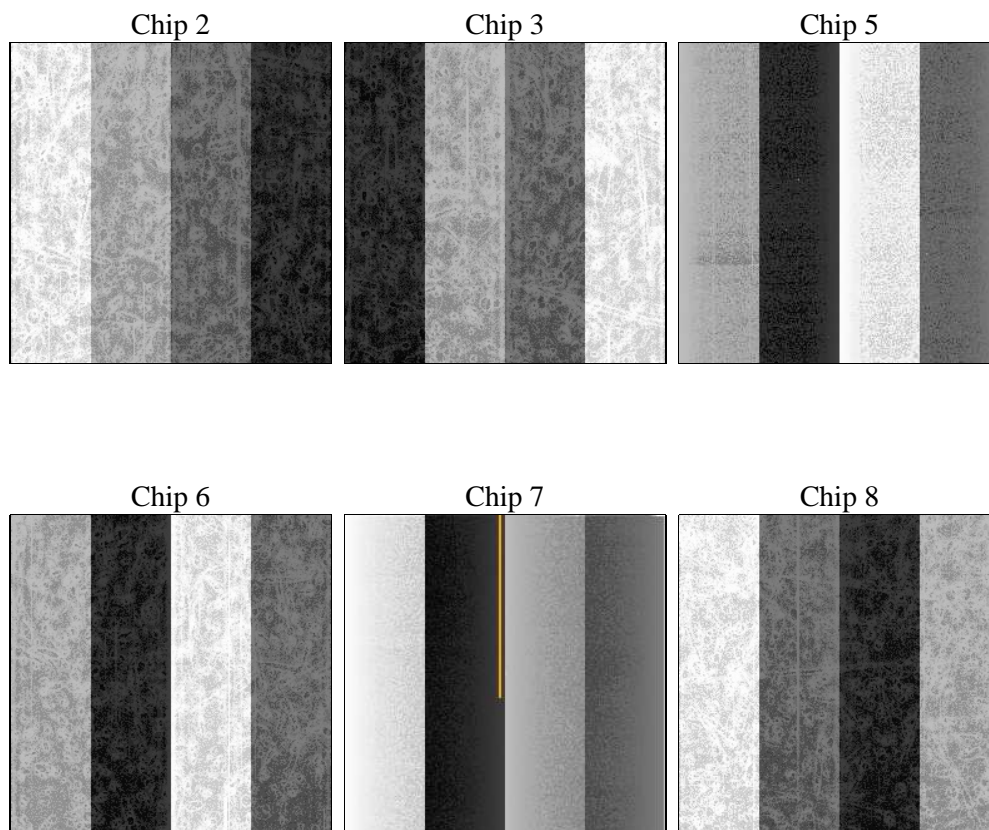
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5155.0009246469	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5155.0419646502	Sum of GTIs [s]
date	2012-04-23T21:17:56	Date and time of file creation	ontime3	5154.877804637	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5154.9598846436	Sum of GTIs [s]
			ontime6	5154.9188446403	Sum of GTIs [s]
			ontime7	5155.0009246469	Sum of GTIs [s]
			ontime8	5151.59569484	Sum of GTIs [s]
			l1events	357353	Number of level 1 events

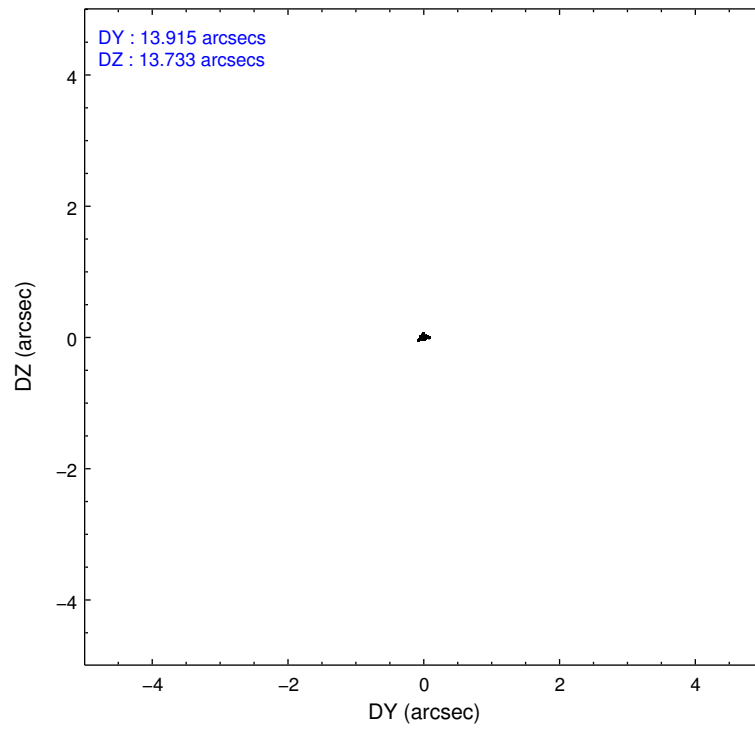
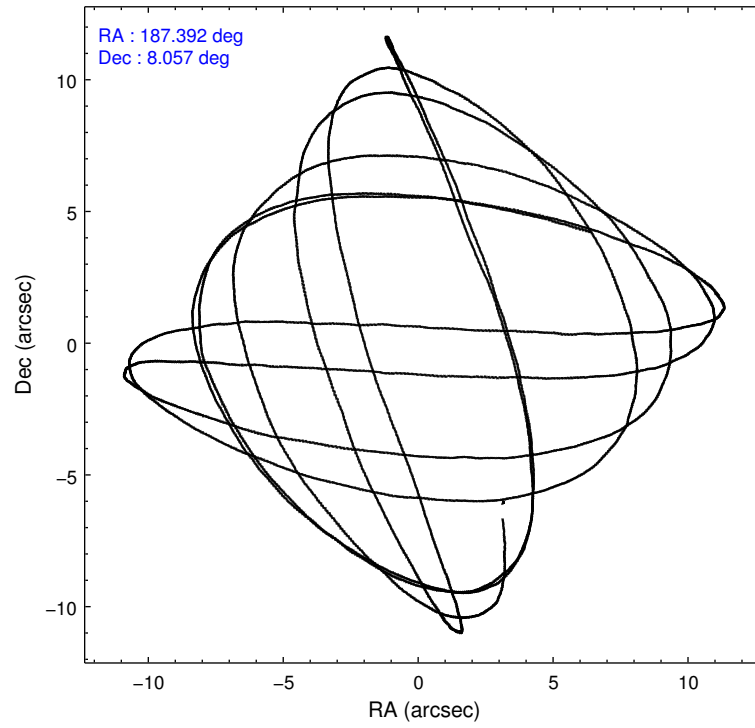
2.1.4 Events

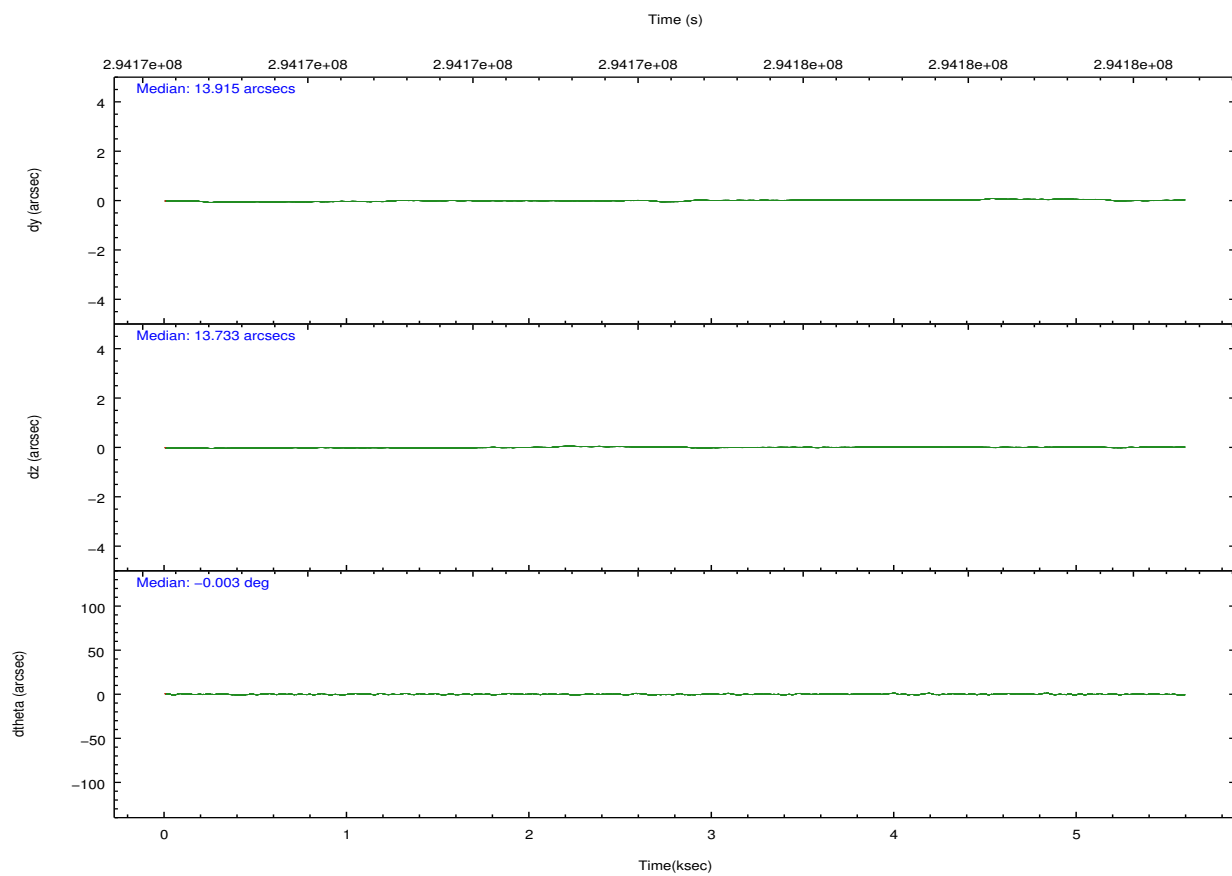
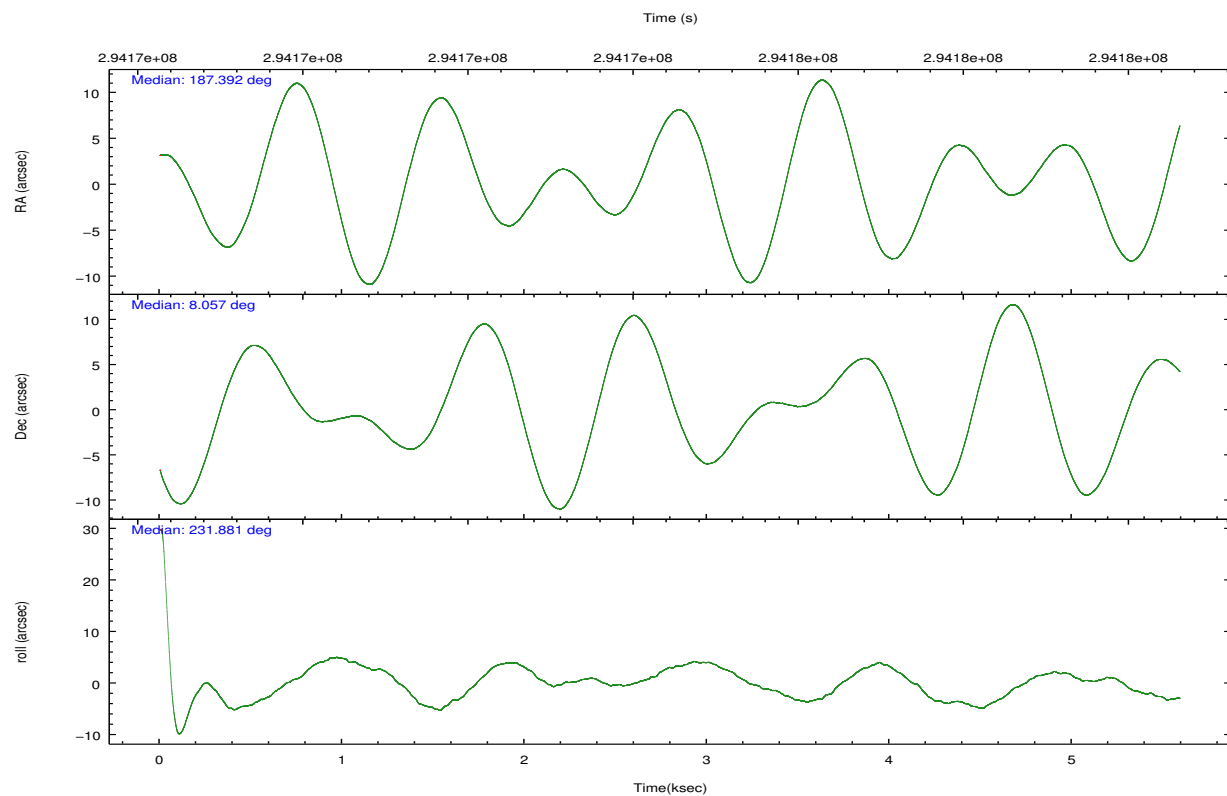
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	50074	46358	77616	50841	69107	63357	grade 0 events	2522	2425	5459	3867	3076	4284
rejected events	44378	40629	40551	43135	38945	49817		5%	5%	7%	7%	4%	6%
rejected %	88%	87%	52%	84%	56%	78%	grade 1 events	29	30	294	36	63	62
								0%	0%	0%	0%	0%	0%
							grade 2 events	1152	1148	10785	1411	6218	2988
								2%	2%	13%	2%	8%	4%
							grade 3 events	561	532	1429	612	2737	1463
								1%	1%	1%	1%	3%	2%
							grade 4 events	544	563	1362	573	2579	1314
								1%	1%	1%	1%	3%	2%
							grade 5 events	1983	2101	5599	2340	6271	2910
								3%	4%	7%	4%	9%	4%
							grade 6 events	921	1069	18057	1248	15572	3502
								1%	2%	23%	2%	22%	5%
							grade 7 events	42362	38490	34631	40754	32591	46834
								84%	83%	44%	80%	47%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	187.395504	187.3919362069114	Subarray requested	NONE	NONE
[deg] Pointing Dec	8.083603	8.056408468523815	Alternating exposures requested	N	N
[deg] Pointing Roll	231.732343	231.8895748753914	[s] Primary exposure time	0.000000	3.2
[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)	294171621.184000	294171245.07621			
Observation start date	2007-04-28T18:19:16	2007-04-28T18:14:05			
[s] Observation end time (MET)	294177021.184000	294177250.039			
Observation end date	2007-04-28T19:49:16	2007-04-28T19:54:10			
Read mode	TIMED	TIMED			

2.3 Aspect



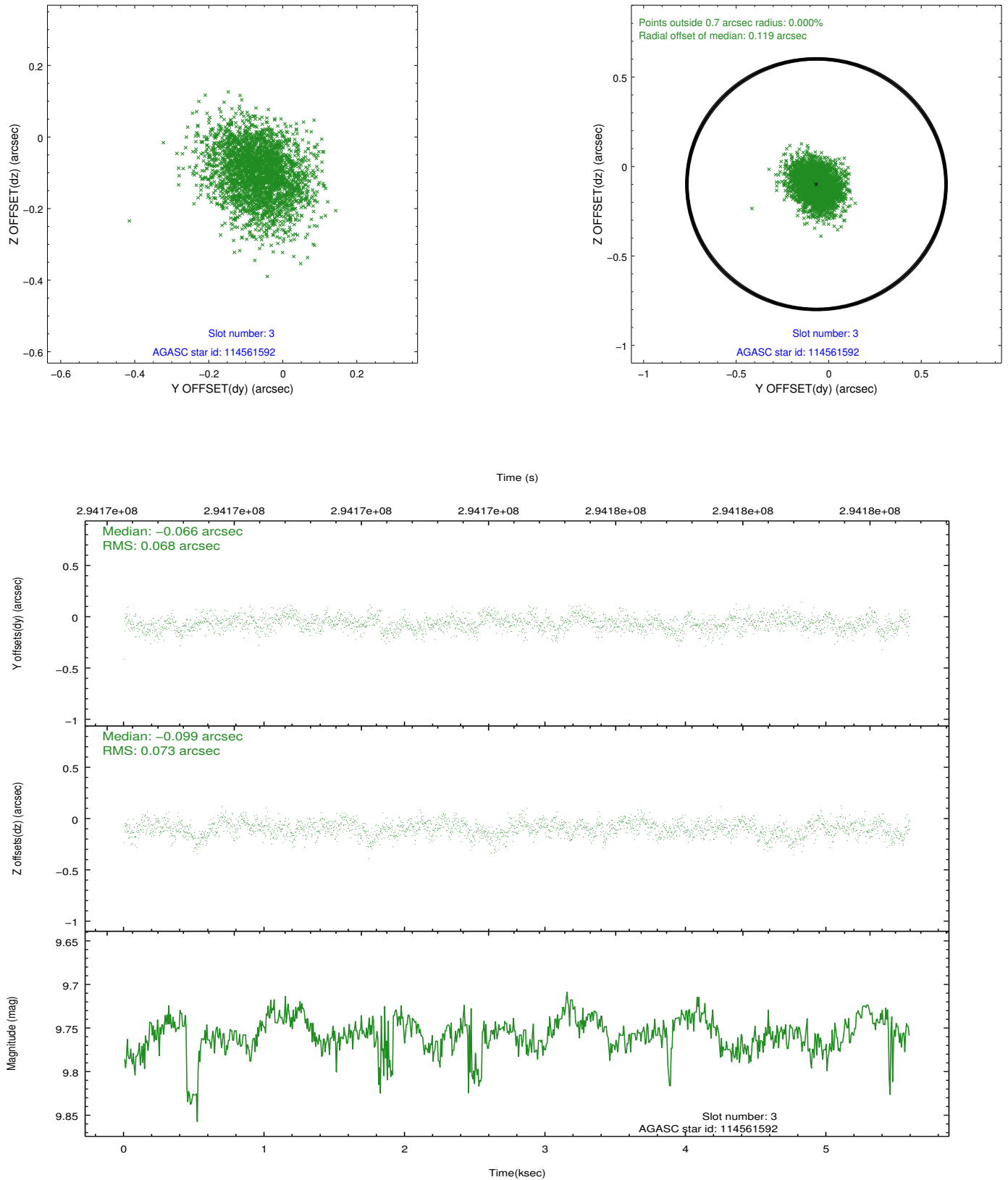


Slot Statistics

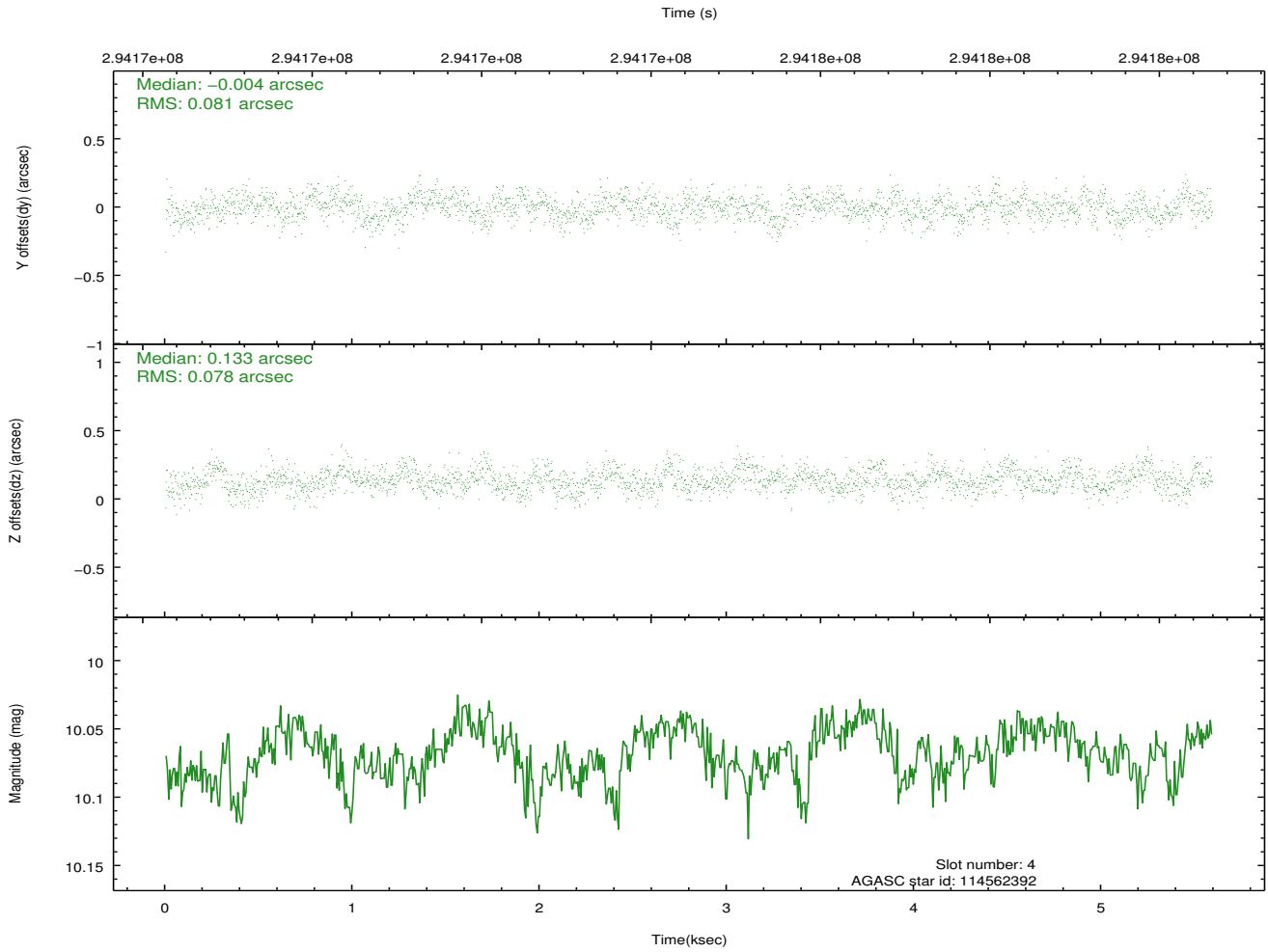
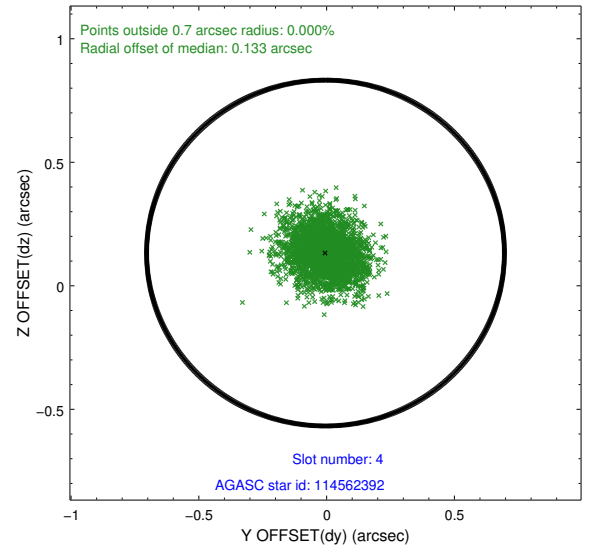
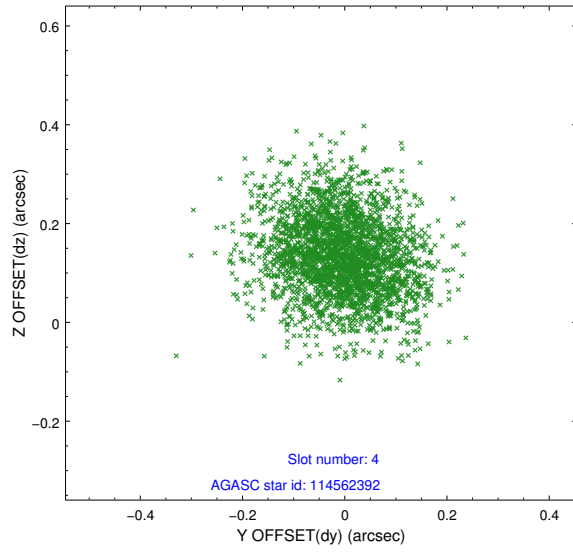
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1363	-0.109	-0.072	0.006	0.011	0.000000	0.000000	-766.98	-1735.09
1	FID	ACIS-S-4	7.19	1364	0.123	0.054	0.006	0.010	0.000000	0.000000	2146.06	172.37
2	FID	ACIS-S-6	7.33	1363	-0.042	0.025	0.007	0.011	0.000000	0.000000	396.47	810.98
3	GUIDE	114561592	9.76	2725	-0.066	-0.099	0.107	0.173	187.709505	8.445382	-1715.48	70.81
4	GUIDE	114562392	10.07	2716	-0.004	0.133	0.119	0.197	187.662769	8.522526	-1830.76	-231.68
5	GUIDE	114563576	7.87	2728	-0.051	-0.010	0.068	0.110	186.867039	8.012388	1367.01	-1321.12
6	GUIDE	114563648	9.81	2723	0.115	0.053	0.131	0.209	187.009208	7.938475	1263.42	-758.42
7	GUIDE	114565064	9.98	2726	0.012	-0.074	0.146	0.240	187.898151	7.788605	-277.07	2064.47

2.4 Star Slots

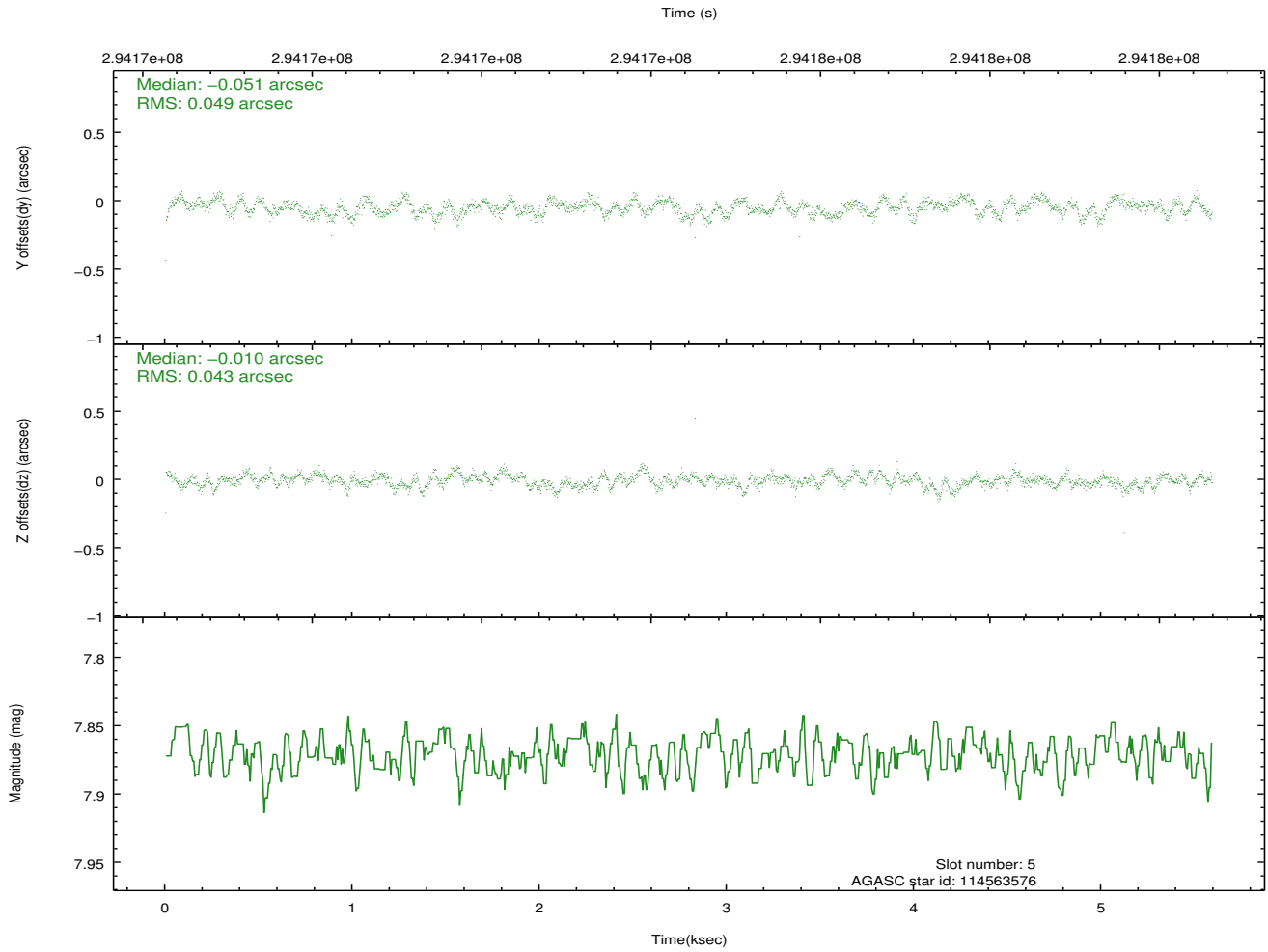
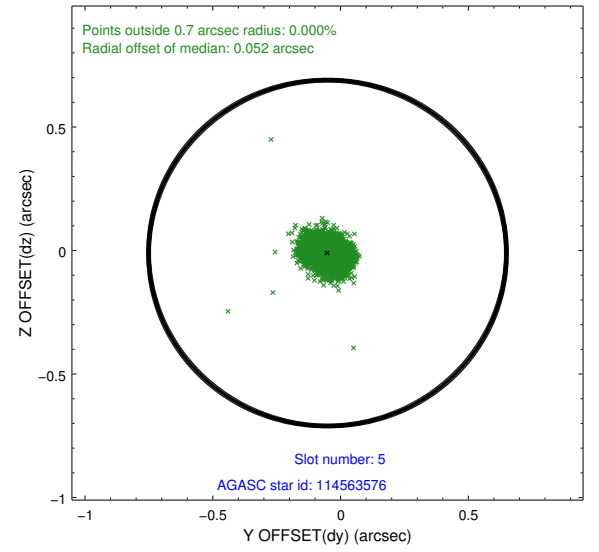
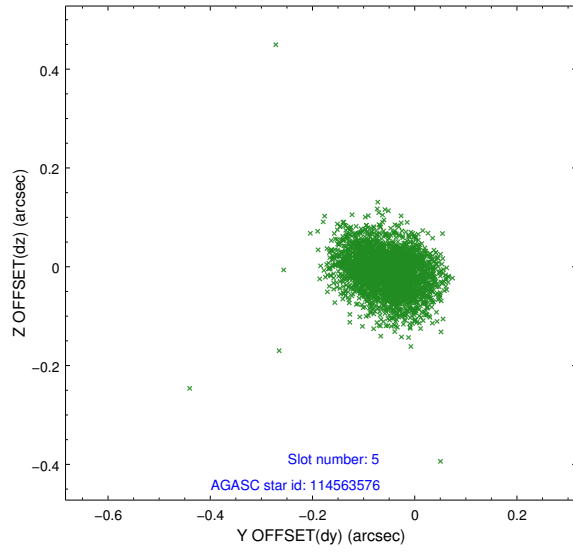
2.4.1 Slot 3



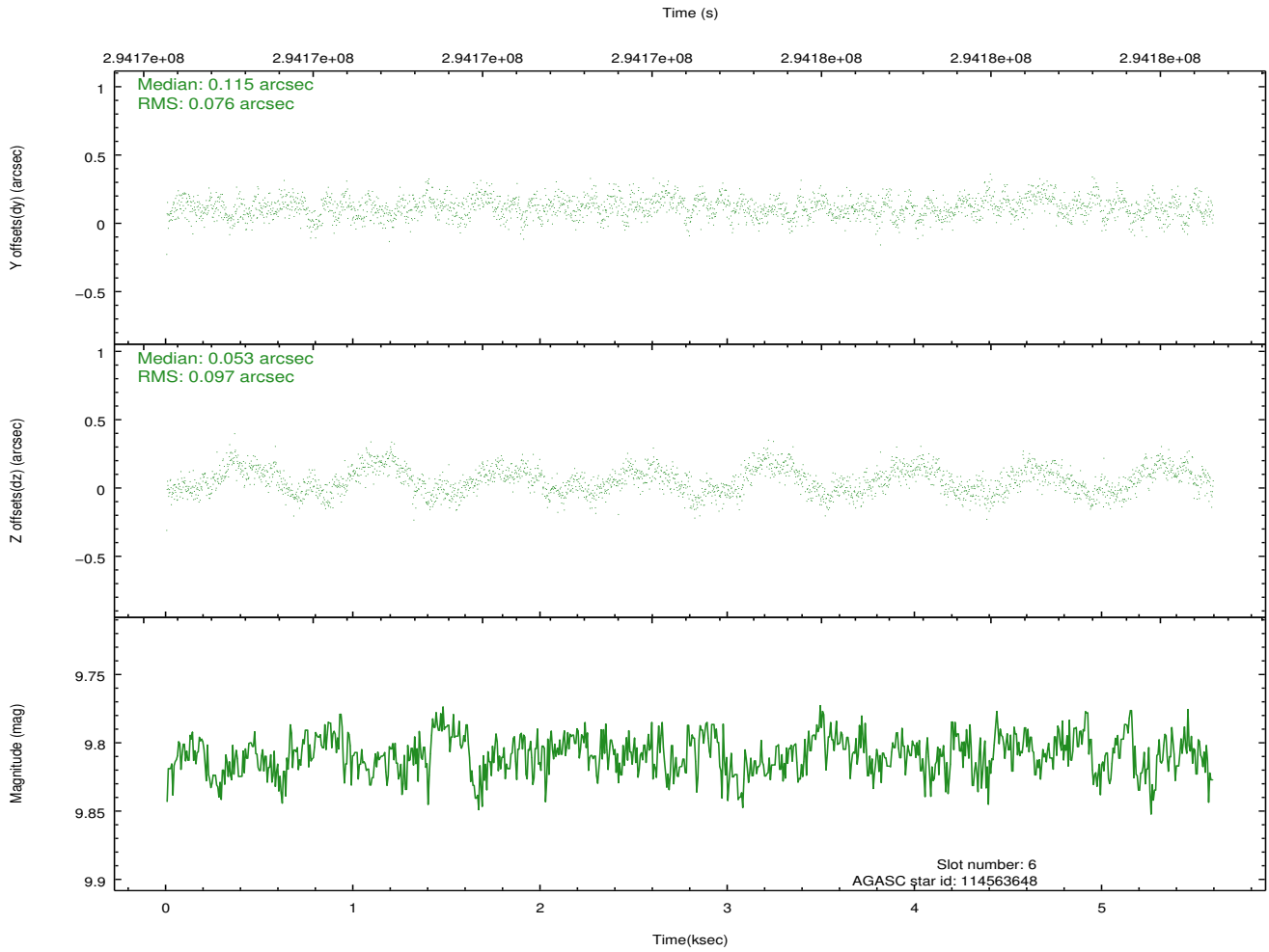
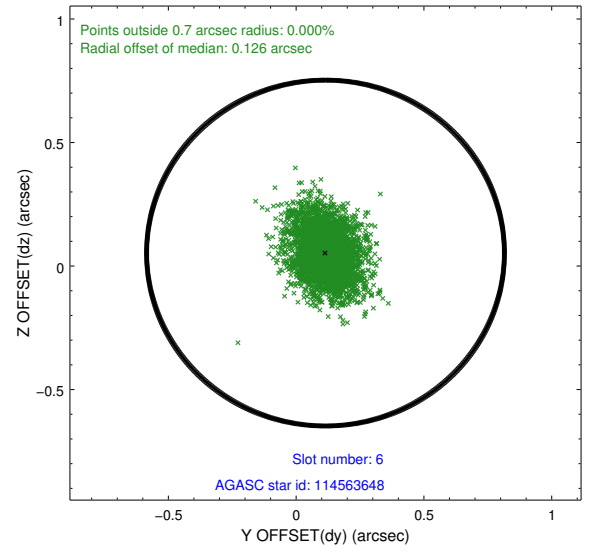
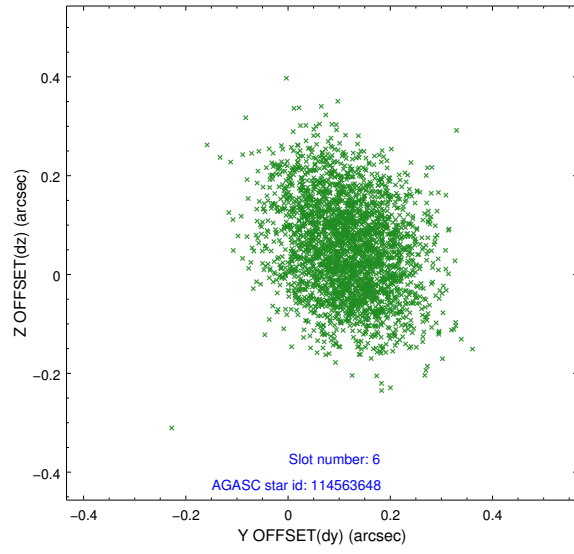
2.4.2 Slot 4



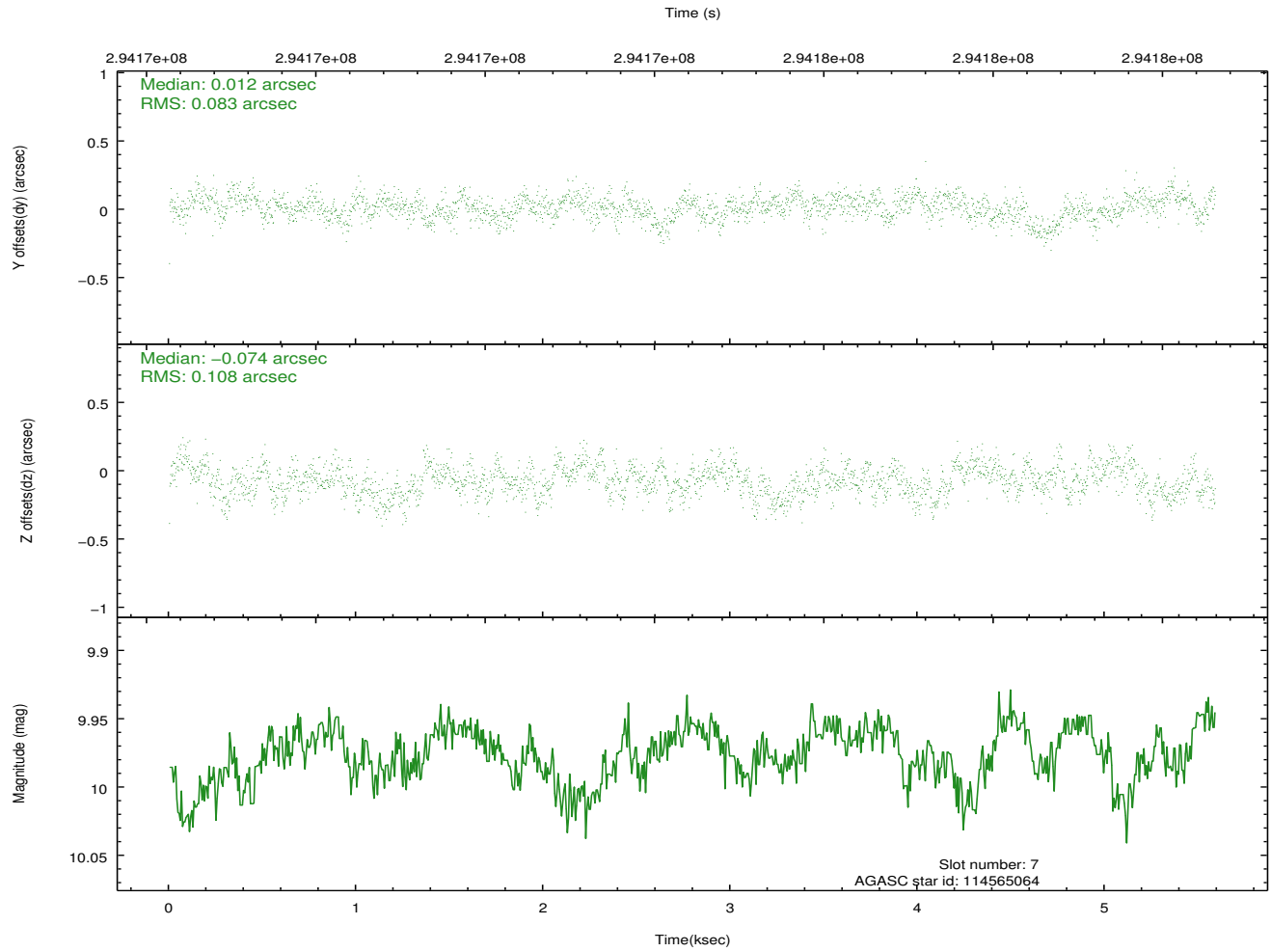
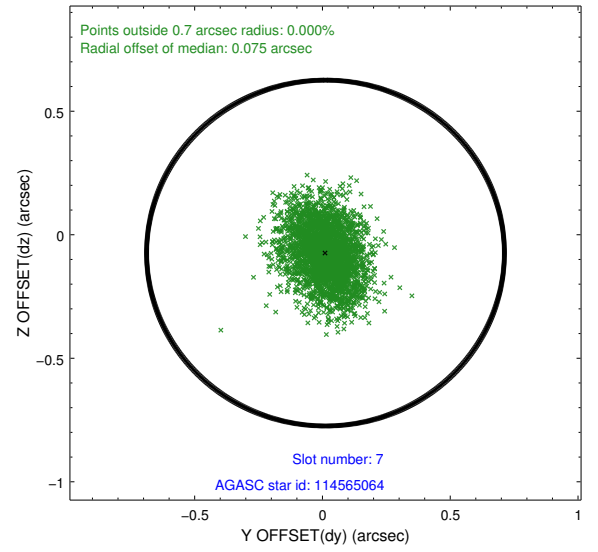
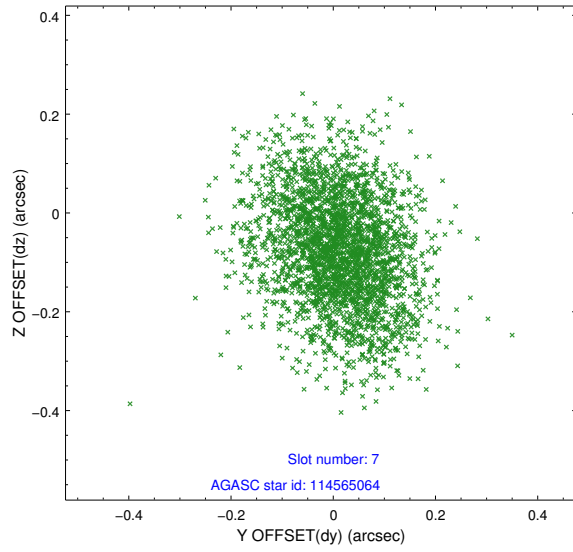
2.4.3 Slot 5



2.4.4 Slot 6

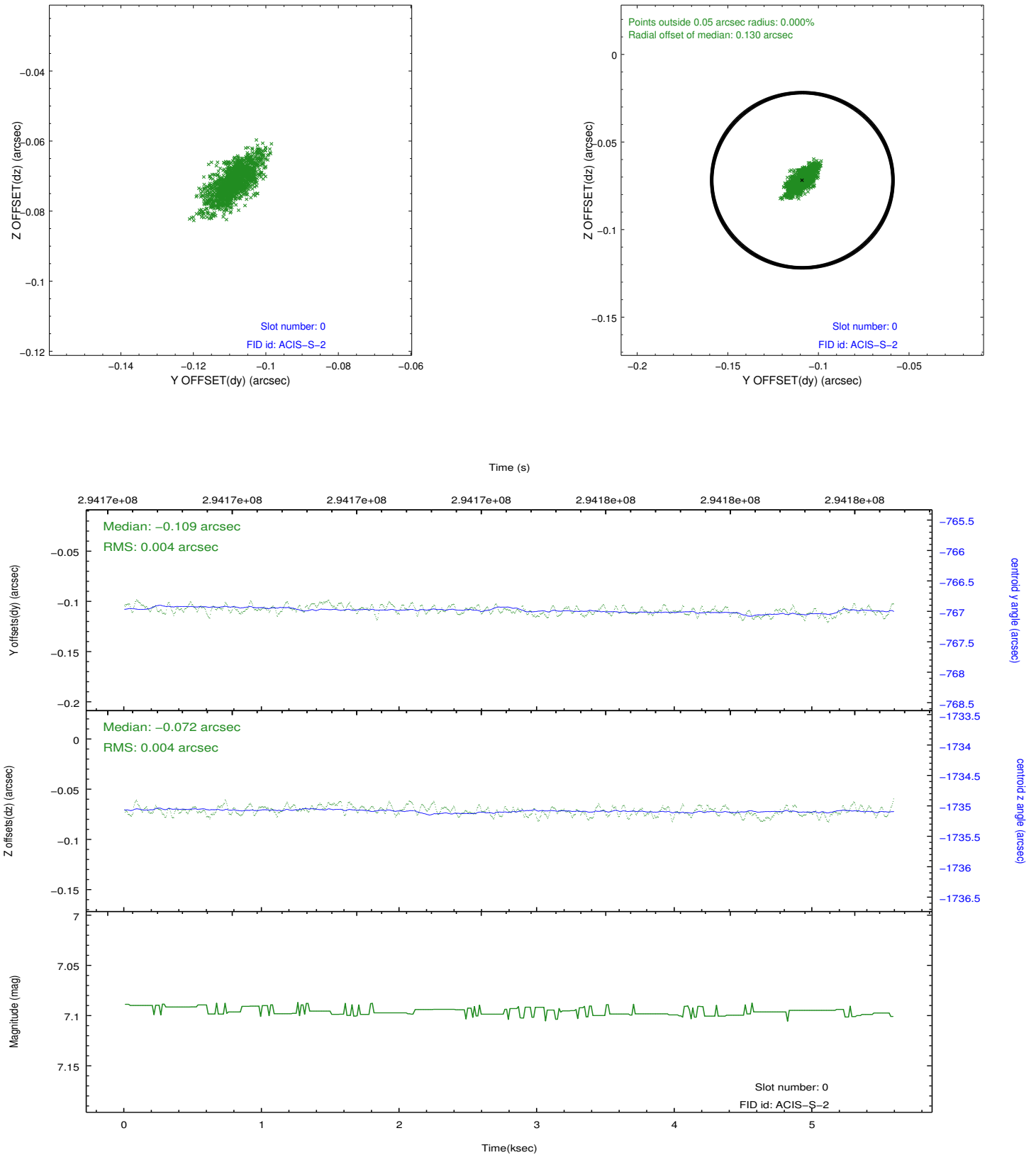


2.4.5 Slot 7

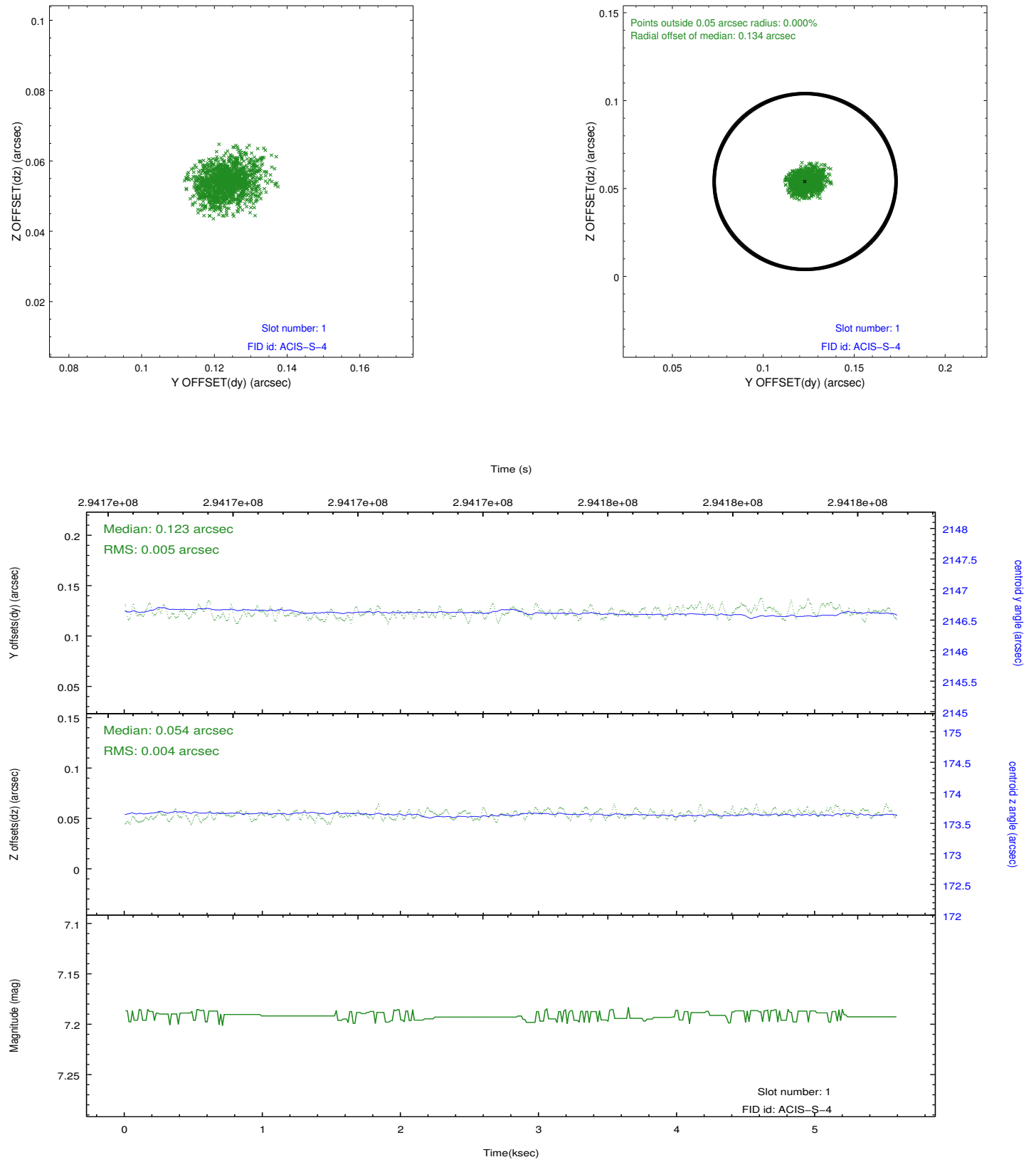


2.5 FID Slots

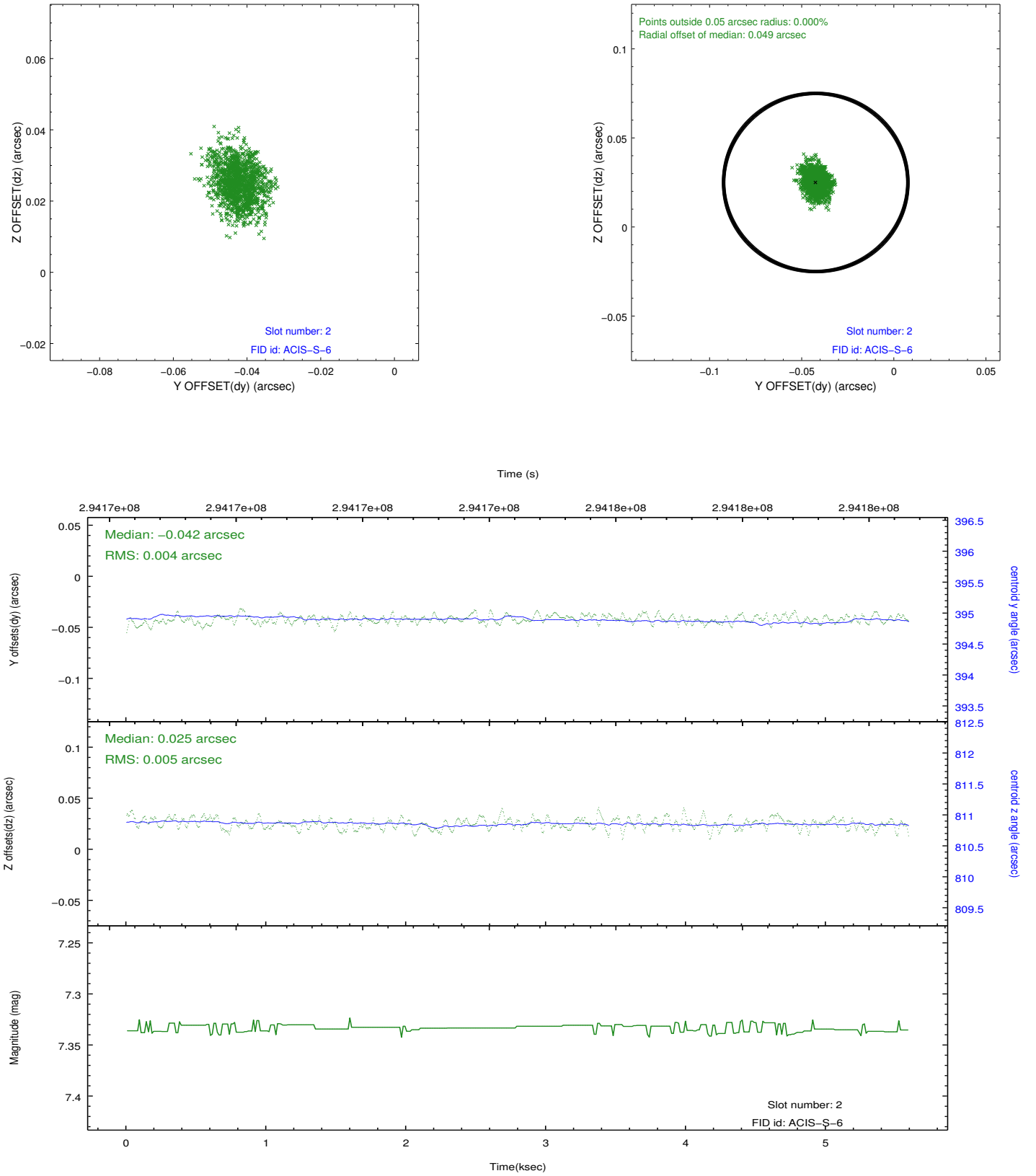
2.5.1 Slot 0



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)	2012.04.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15519998

A.2 Comments

Joint proposal with Spitzer.