

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 14140 - L2 Version 1
Chandra X-Ray Center

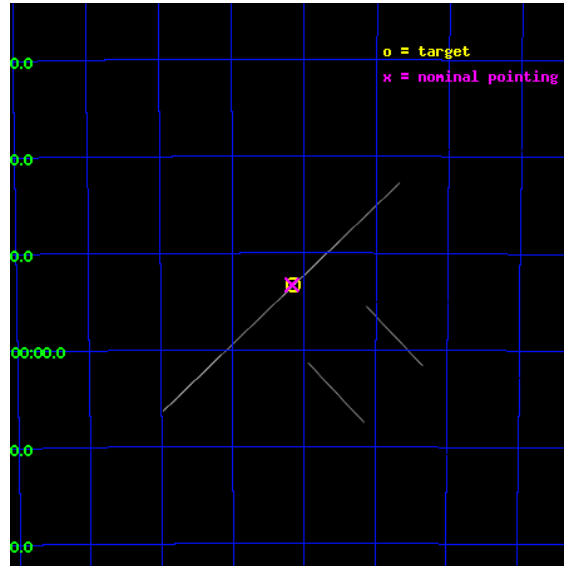
L2 Processing Date : Apr 11 2012

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

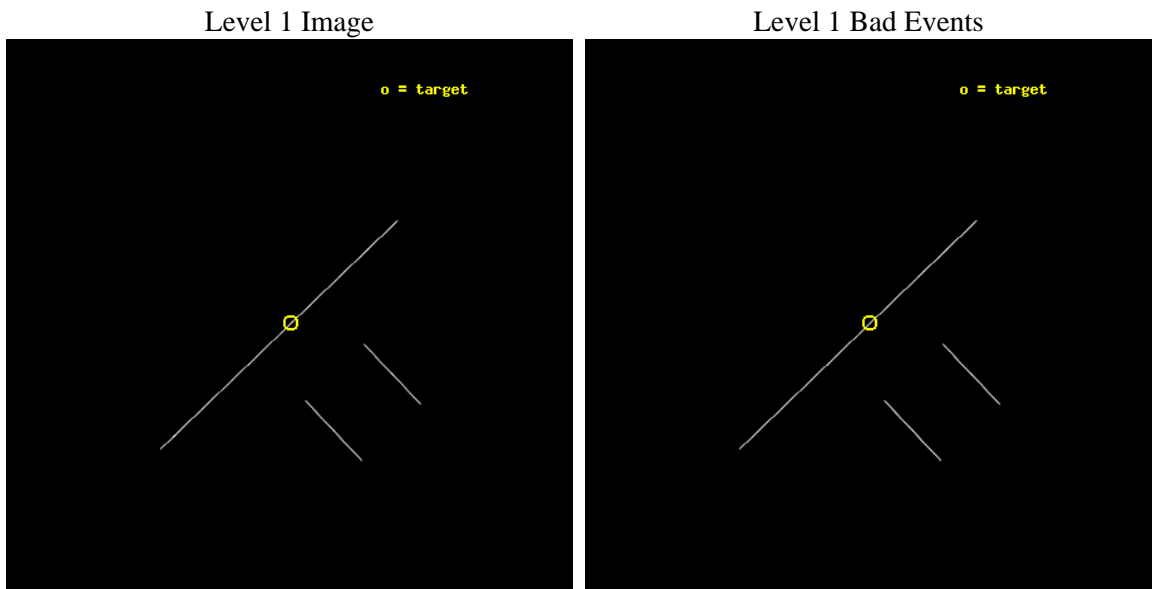
seq_num	501725	Sequence number
obs_id	14140	Observation id
title	TINY HICCUPS TO TITANIC EXPLOSIONS: Tackling Transients in Anomalous X-ray Pulsars	Proposal title
observer	Professor Victoria Kaspi	Principal investigator
object	1E 1048.1-5937	Source name
ra_targ	162.537083	Observer's specified target RA [deg]
dec_targ	-59.889	Observer's specified target Dec [deg]
ra_nom	162.54295548684	Nominal RA [deg]
dec_nom	-59.88829217809	Nominal Dec [deg]
roll_nom	316.34362929551	Nominal Roll [deg]
revision	1	Processing version of data
ontime	12077.75	Sum of GTIs [s]
livetime	12030.571289062	Livetime [s]
ontime2	12077.75	Sum of GTIs [s]
ontime3	12077.75	Sum of GTIs [s]
ontime5	12077.75	Sum of GTIs [s]
ontime6	12077.75	Sum of GTIs [s]
ontime7	12077.75	Sum of GTIs [s]
ontime8	12077.75	Sum of GTIs [s]
l2events	176315	Number of level 2 events



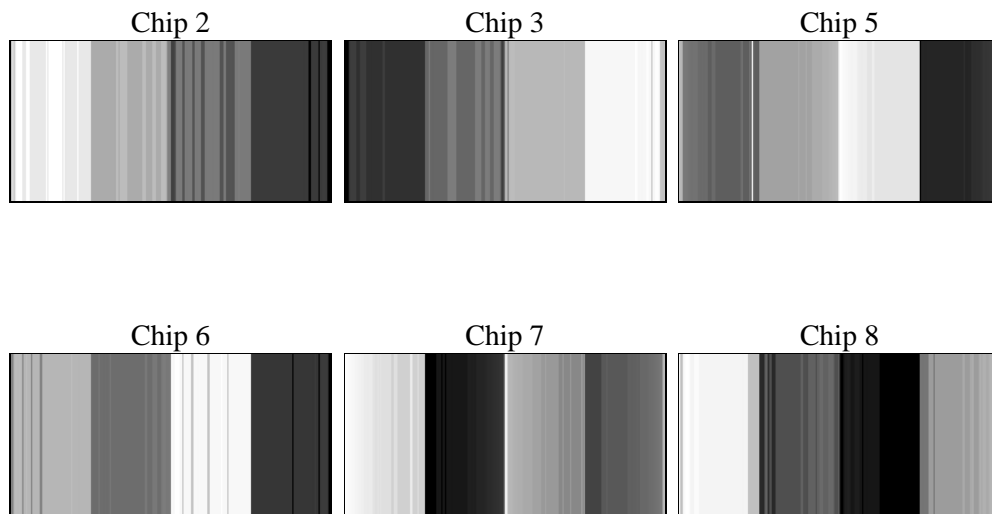
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	12077.75	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	12077.75	Sum of GTIs [s]
date	2012-04-11T04:44:31	Date and time of file creation	ontime3	12077.75	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	12077.75	Sum of GTIs [s]
			ontime6	12077.75	Sum of GTIs [s]
			ontime7	12077.75	Sum of GTIs [s]
			ontime8	12077.75	Sum of GTIs [s]
			l1events	929900	Number of level 1 events

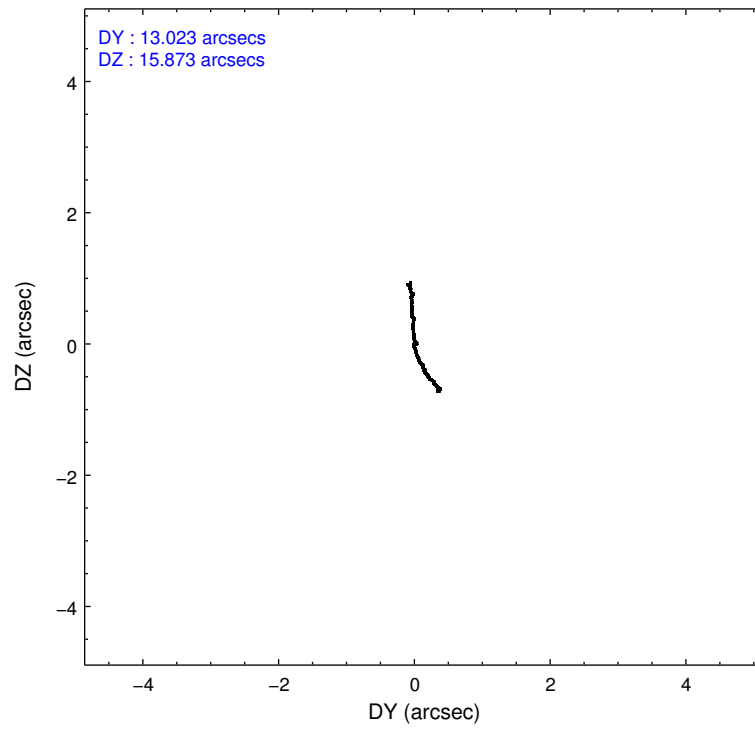
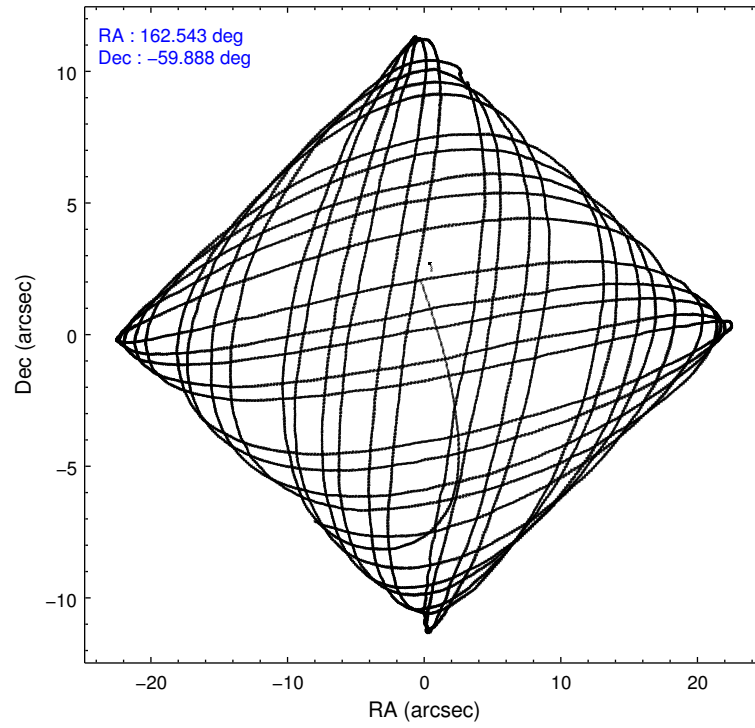
2.1.4 Events

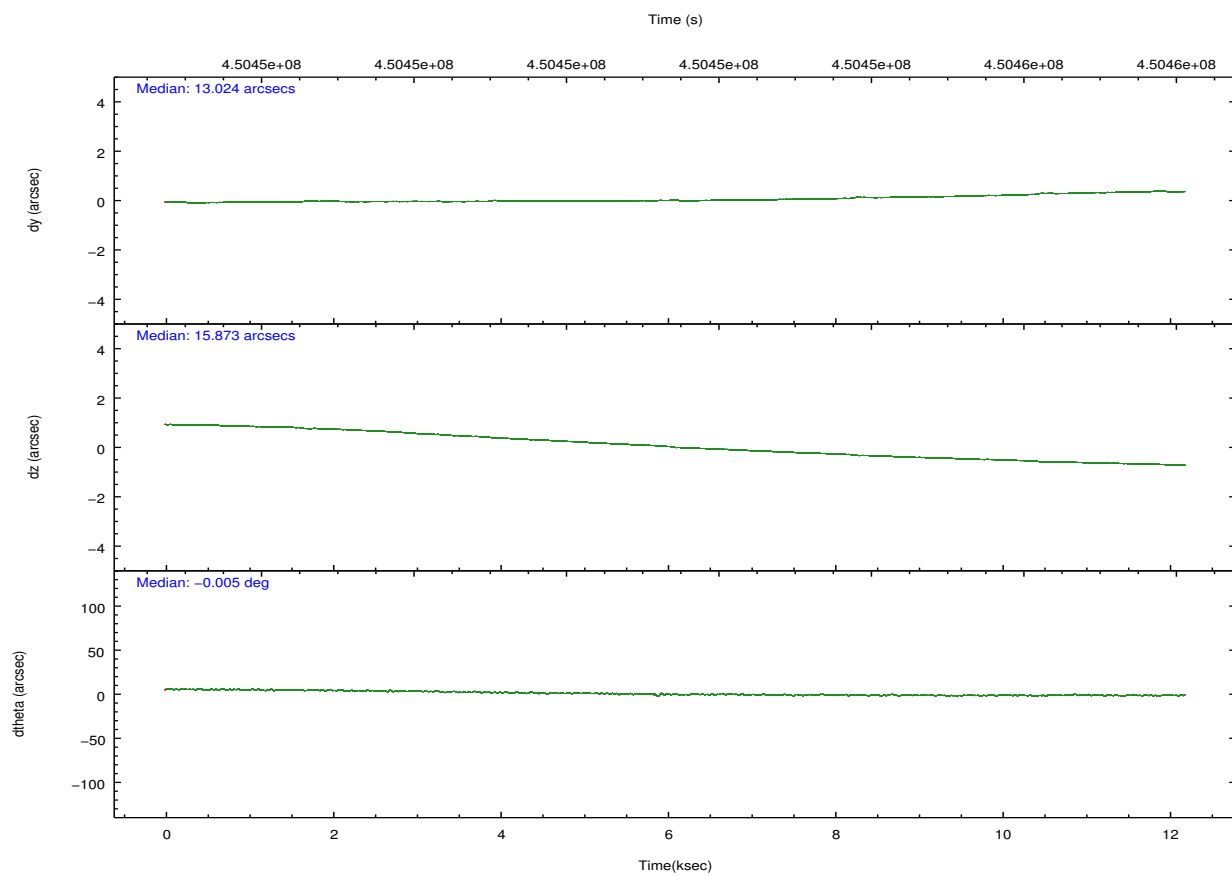
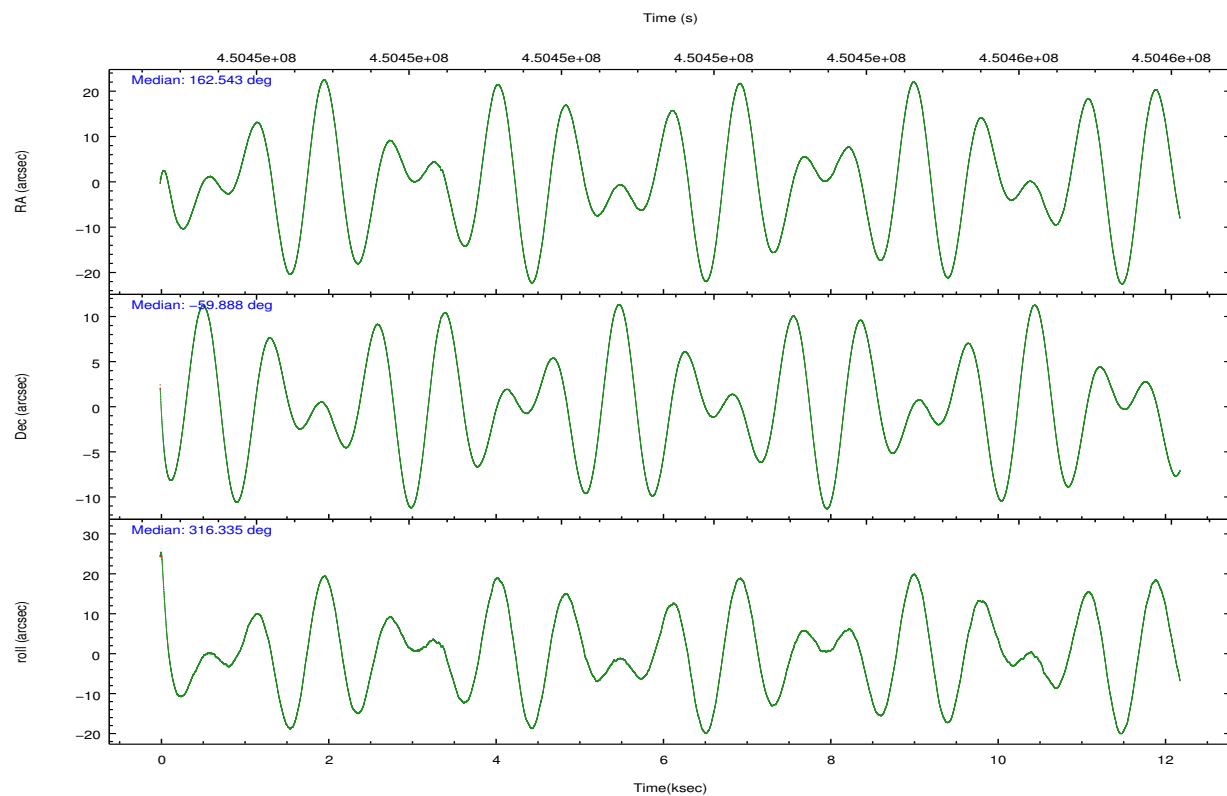
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	131245	121953	189551	121975	170002	195174	grade 0 events	1522	1679	30418	1504	10979	8033
rejected events	119590	109838	97468	108805	91491	158676		1%	1%	16%	1%	6%	4%
rejected %	91%	90%	51%	89%	53%	81%	grade 1 events	65	75	132	76	149	148
								0%	0%	0%	0%	0%	0%
							grade 2 events	4398	4334	24817	5149	21694	10885
								3%	3%	13%	4%	12%	5%
							grade 3 events	1463	1649	1361	1653	6203	3958
								1%	1%	0%	1%	3%	2%
							grade 4 events	1544	1446	1366	1541	6006	3835
								1%	1%	0%	1%	3%	1%
							grade 5 events	3320	3575	8092	3574	9579	5290
								2%	2%	4%	2%	5%	2%
							grade 6 events	2736	3008	34146	3328	33663	9790
								2%	2%	18%	2%	19%	5%
							grade 7 events	116197	106187	89219	105150	81729	153235
								88%	87%	47%	86%	48%	78%

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	CC33_FAINT	CC33_FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	162.489829	162.5429554868405	CCD I2 on	O2	Y
[deg] Pointing Dec	-59.882179	-59.8882921780895	CCD I3 on	O3	Y
[deg] Pointing Roll	316.141020	316.3436292955141	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	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)	450445517.184000	450444478.74299	CCD S5 on	N	N
Observation start date	2012-04-10T11:44:11	2012-04-10T11:27:58	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	450457517.184000	450457894.96868	On-chip summing requested	N	N
Observation end date	2012-04-10T15:04:11	2012-04-10T15:11:34	Subarray requested	NONE	NONE
Read mode	CONTINUOUS	CONTINUOUS	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0

2.3 Aspect



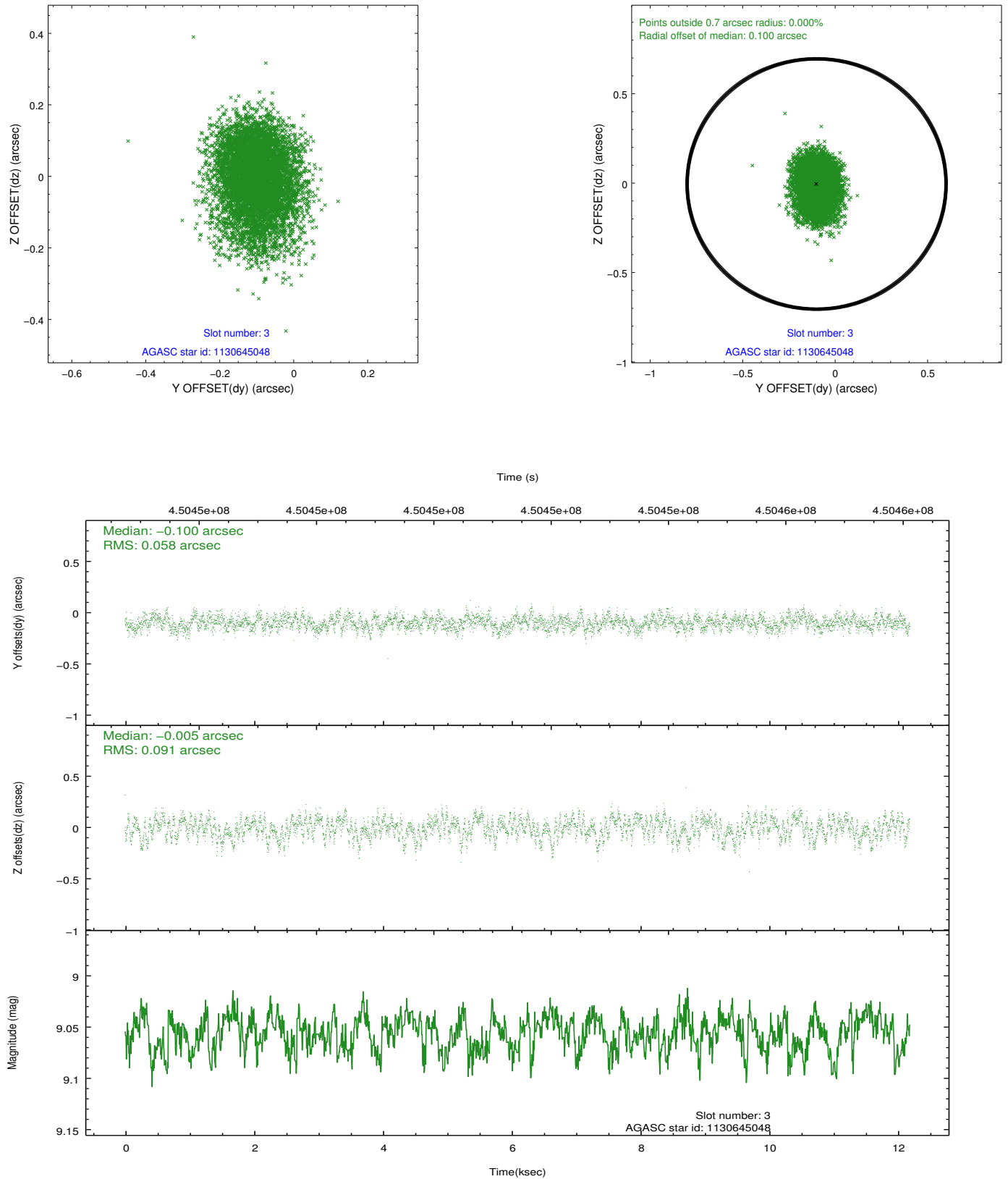


Slot Statistics

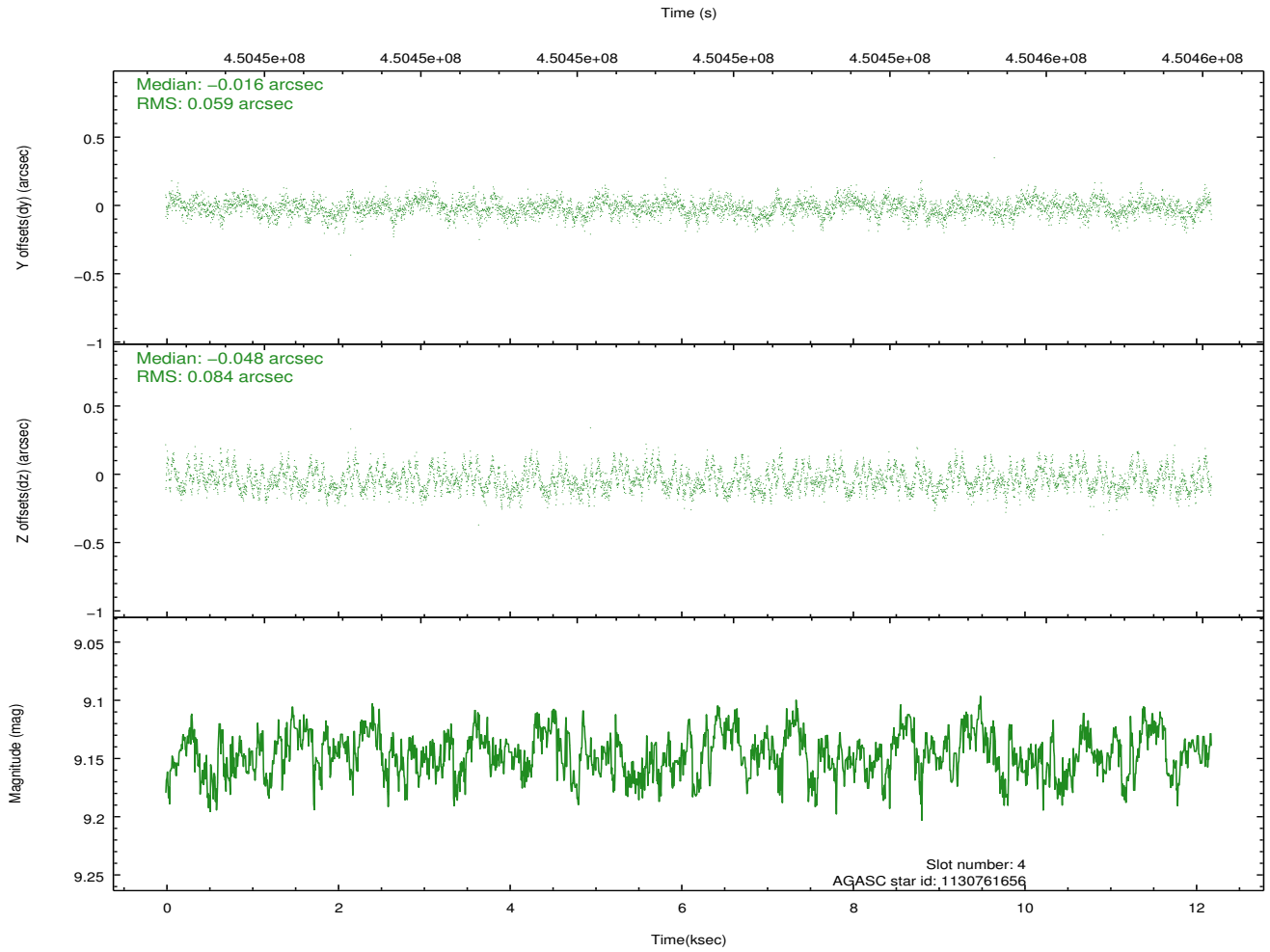
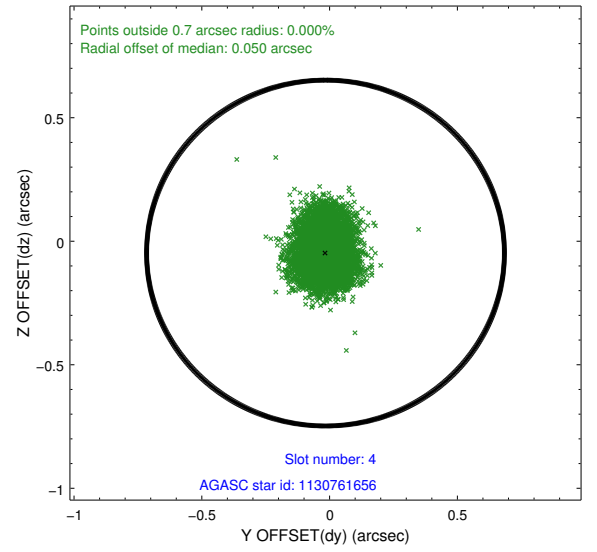
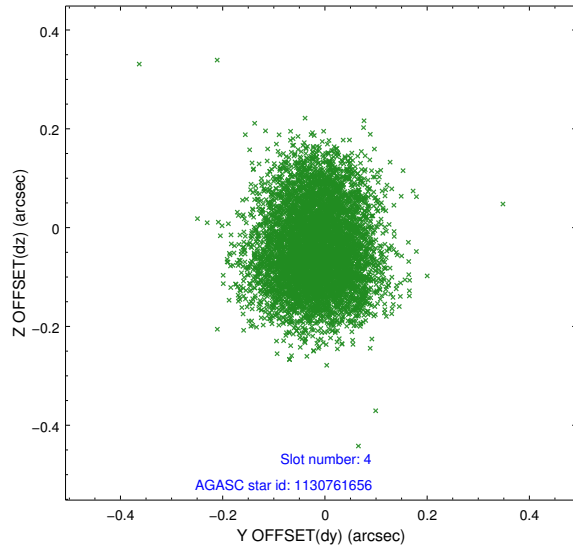
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-4	6.98	2973	0.164	-0.015	0.006	0.011	0.000000	0.000000	2147.50	171.31
1	FID	ACIS-S-5	7.02	2973	-0.177	-0.008	0.011	0.018	0.000000	0.000000	-1818.51	164.82
2	FID	ACIS-S-6	7.11	2973	-0.016	0.037	0.011	0.018	0.000000	0.000000	395.14	808.61
3	GUIDE	1130645048	9.06	5943	-0.100	-0.005	0.115	0.189	163.269340	-59.505518	92.90	1958.35
4	GUIDE	1130761656	9.15	5939	-0.016	-0.048	0.110	0.175	163.475867	-59.582518	557.58	2013.79
5	GUIDE	1174031160	8.83	5942	-0.105	-0.136	0.096	0.166	162.483783	-60.757597	2176.63	-2279.33
6	GUIDE	1130642000	7.94	5946	-0.048	-0.038	0.065	0.106	162.836255	-59.743891	109.73	792.75
7	GUIDE	1174033144	8.48	5945	0.268	0.222	0.082	0.131	161.168741	-60.059230	-1252.59	-2121.14

2.4 Star Slots

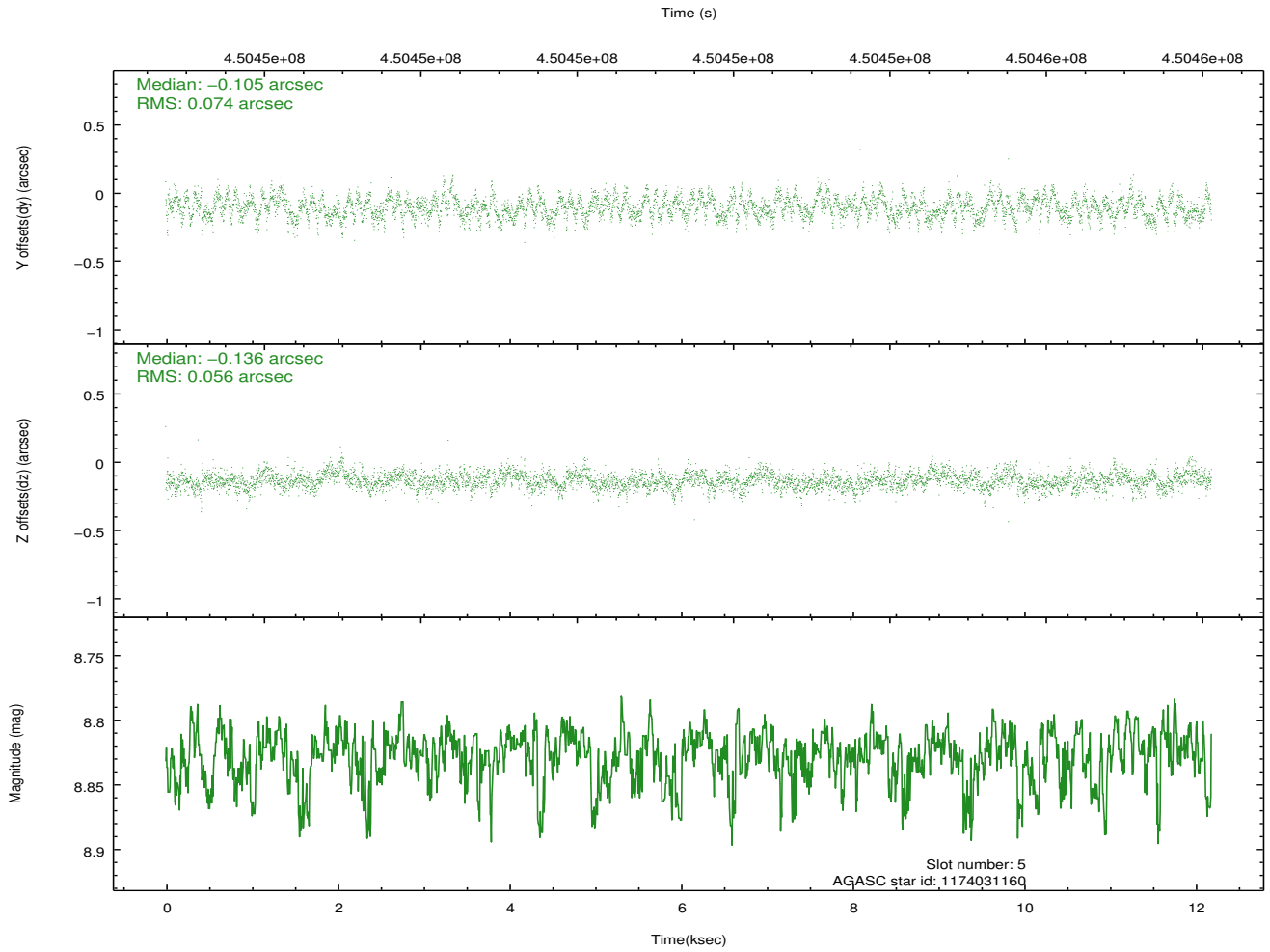
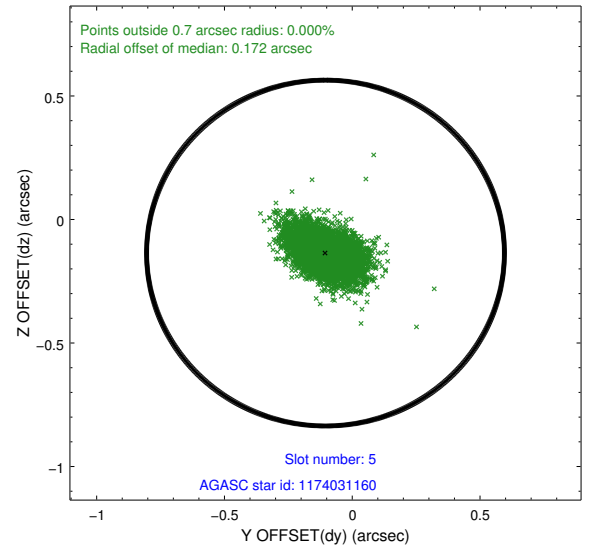
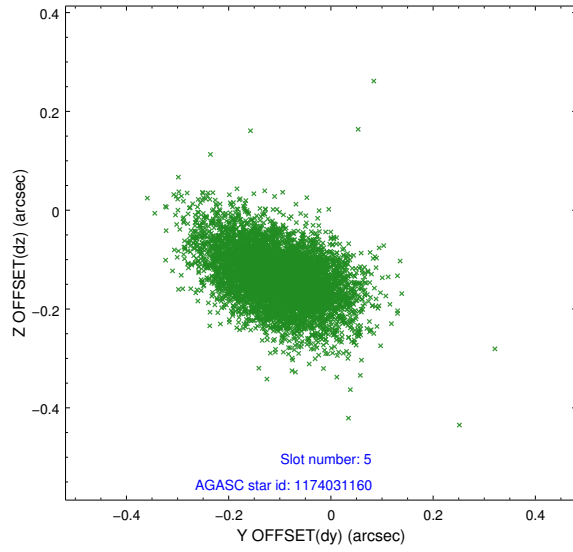
2.4.1 Slot 3



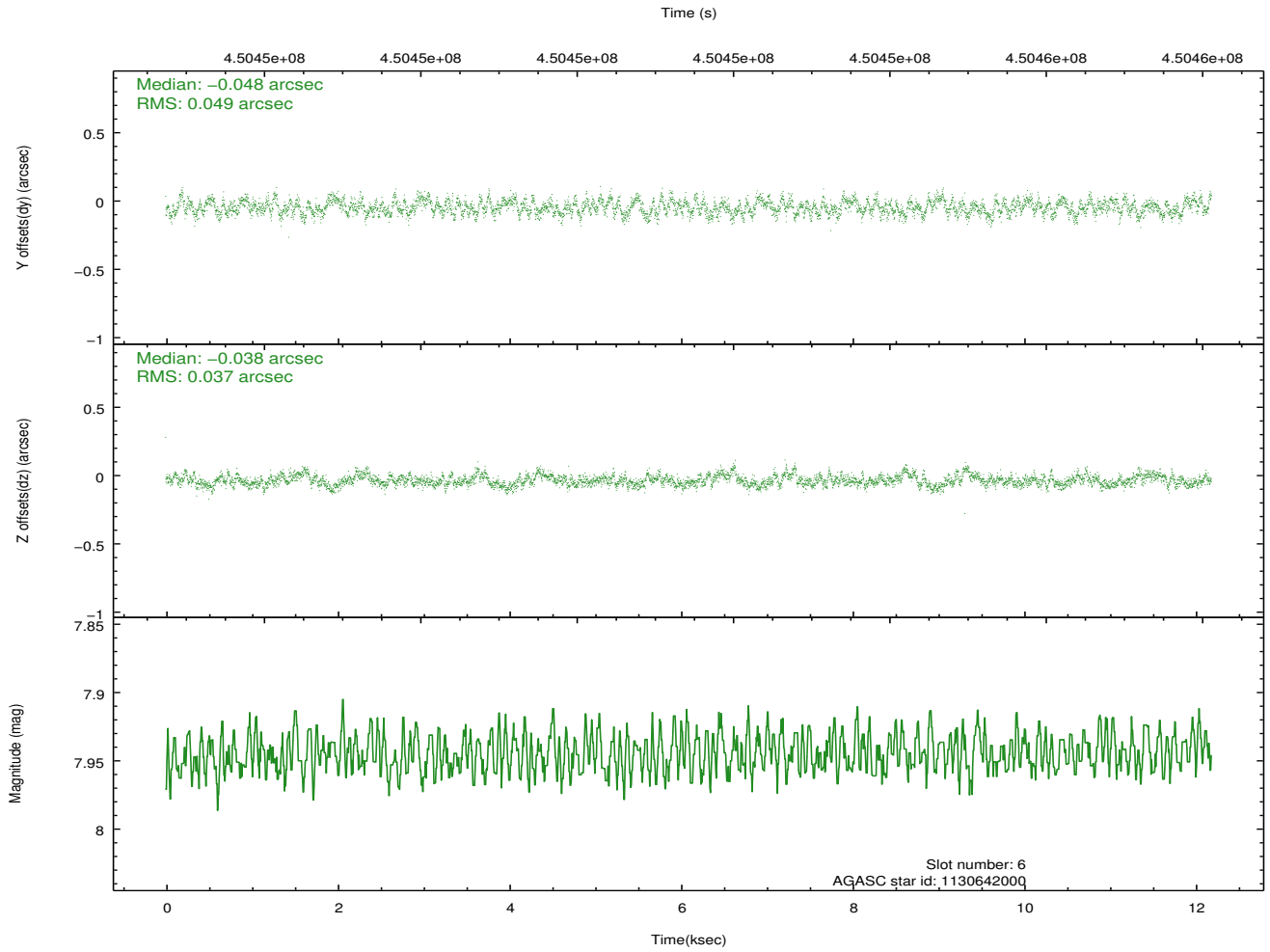
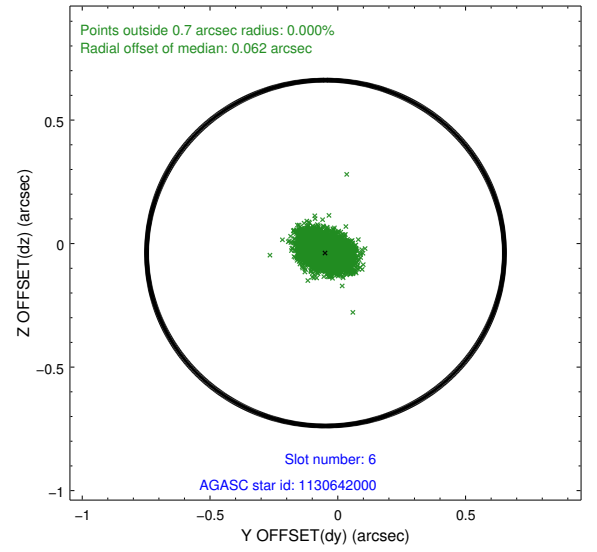
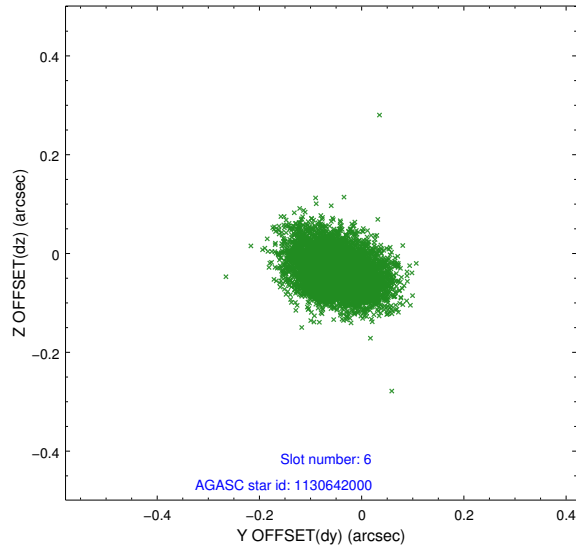
2.4.2 Slot 4



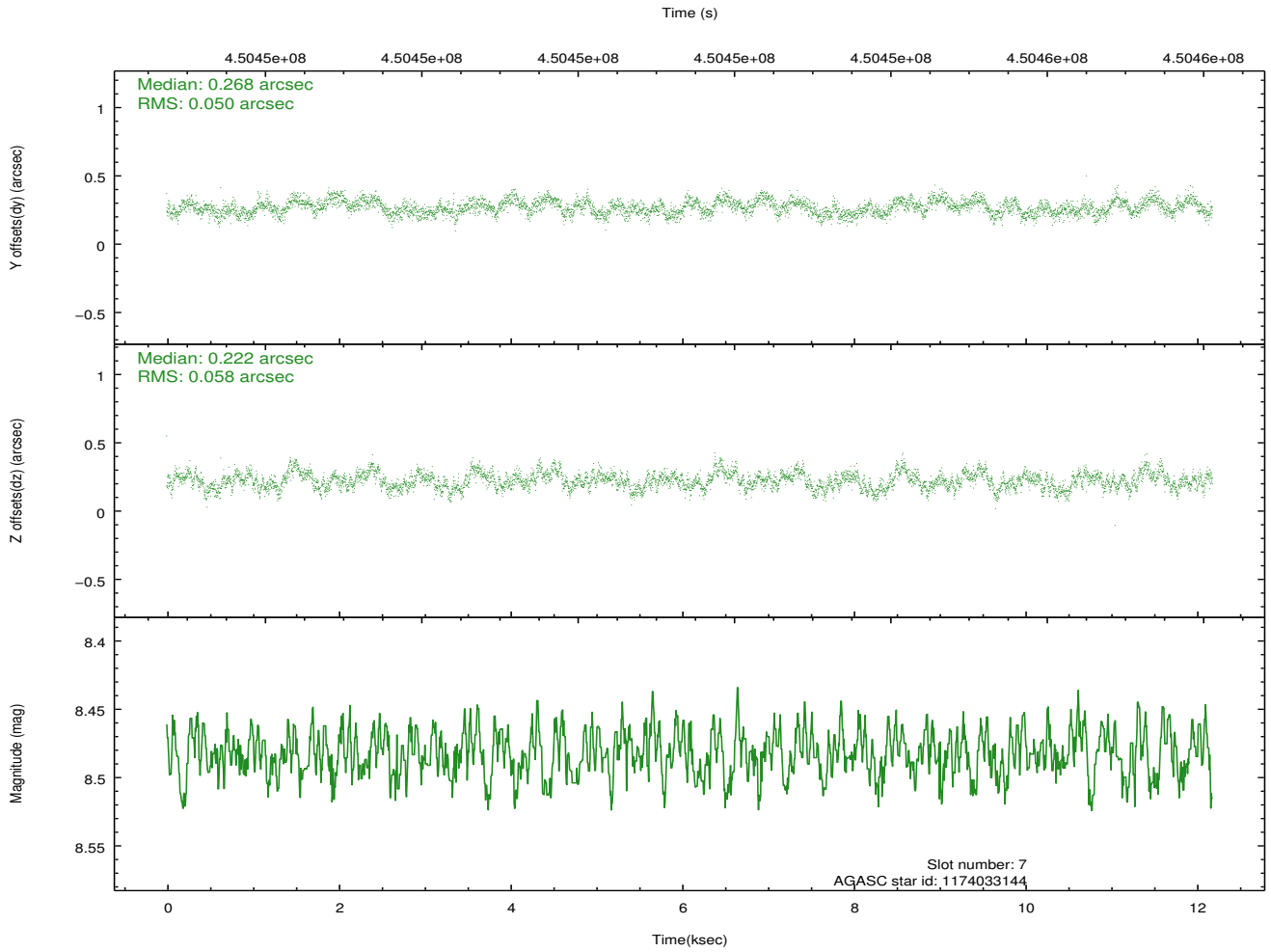
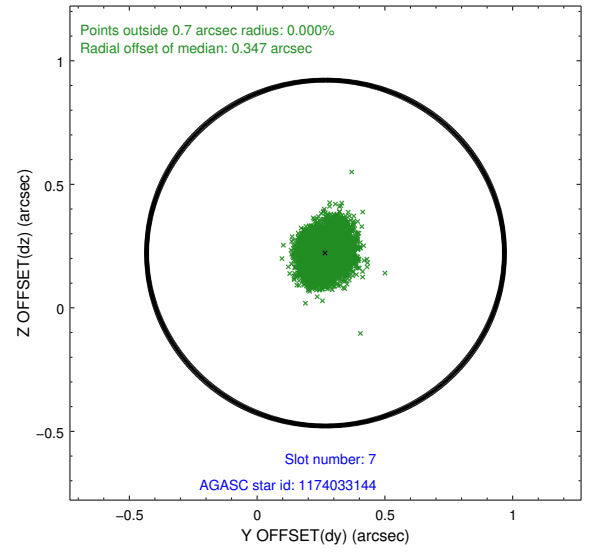
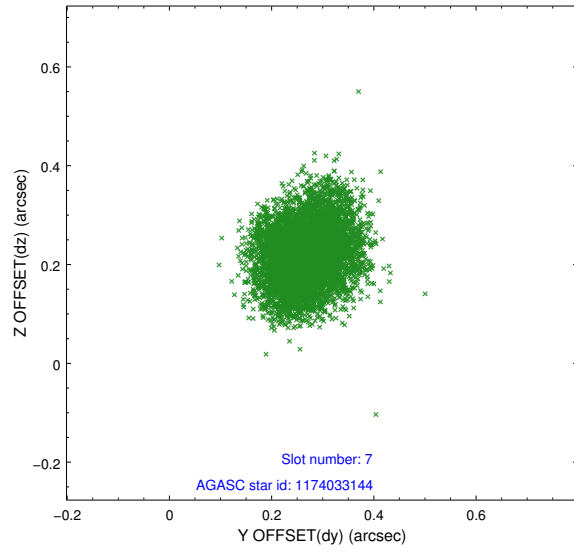
2.4.3 Slot 5



2.4.4 Slot 6

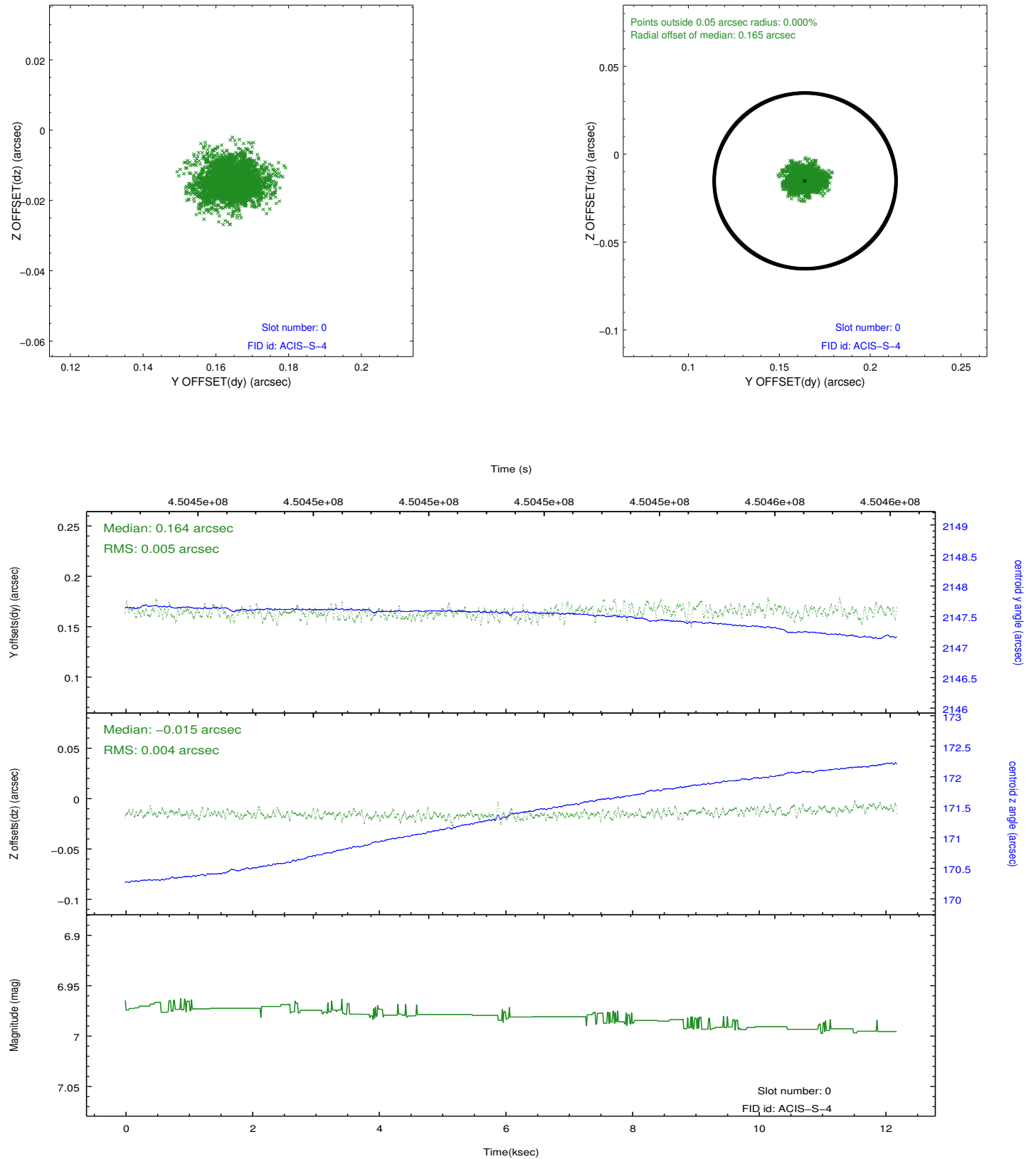


2.4.5 Slot 7

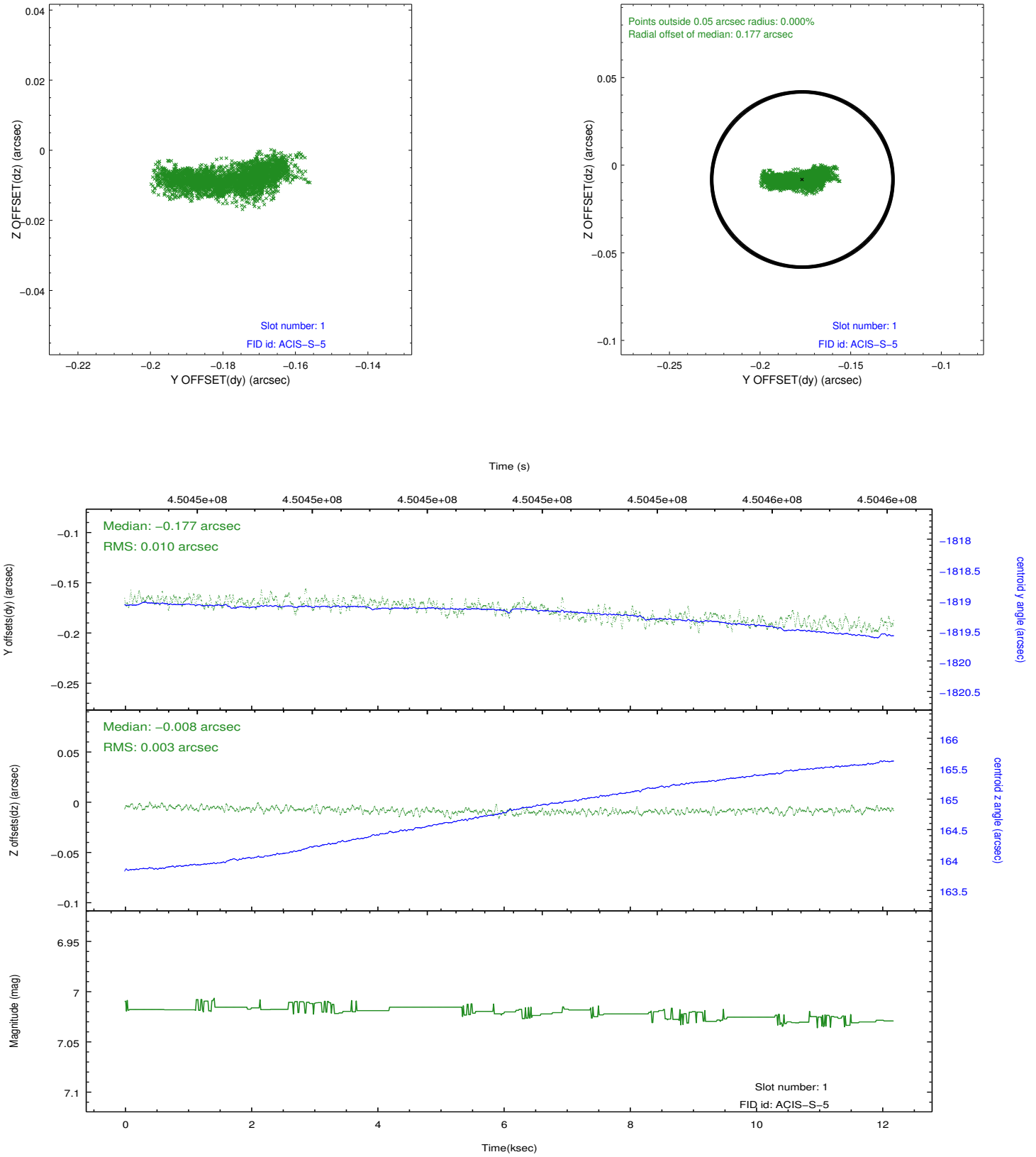


2.5 FID Slots

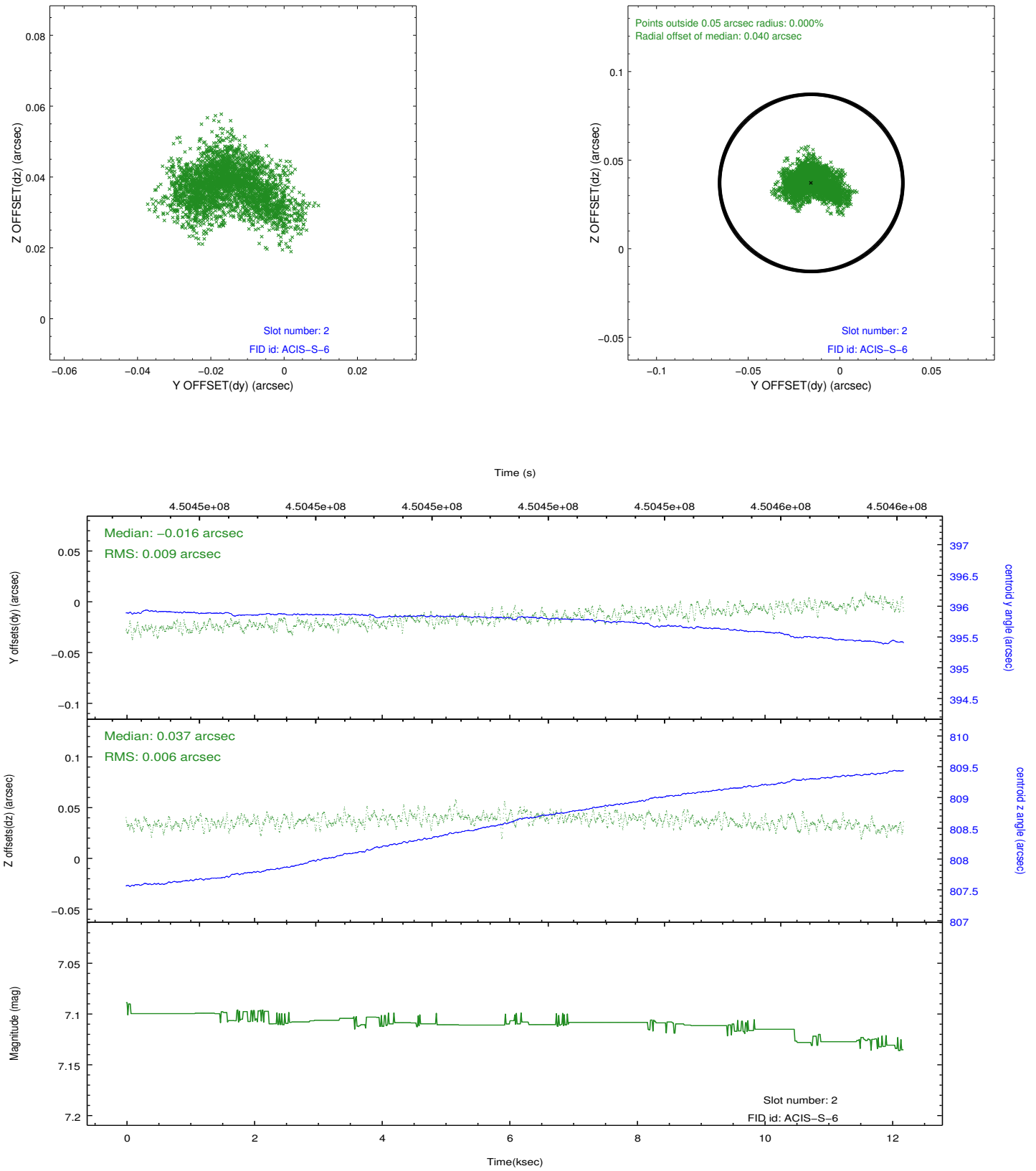
2.5.1 Slot 0



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)	2012.04.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.07775

A.2 Comments