

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14454 - L2 Version 1
Chandra X-Ray Center

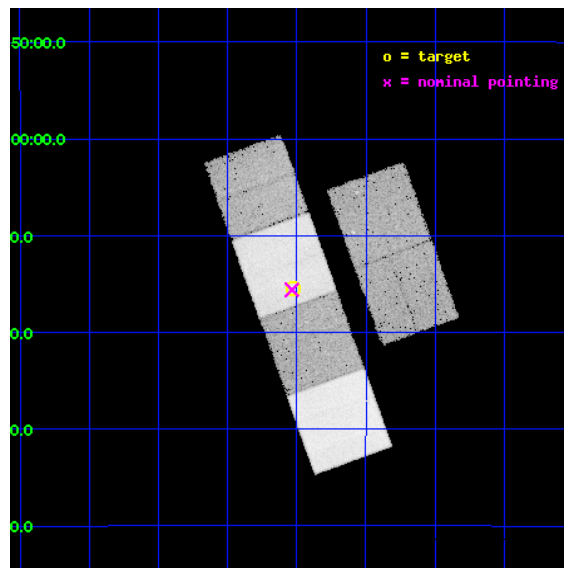
L2 Processing Date : Jul 3 2012

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1 Front

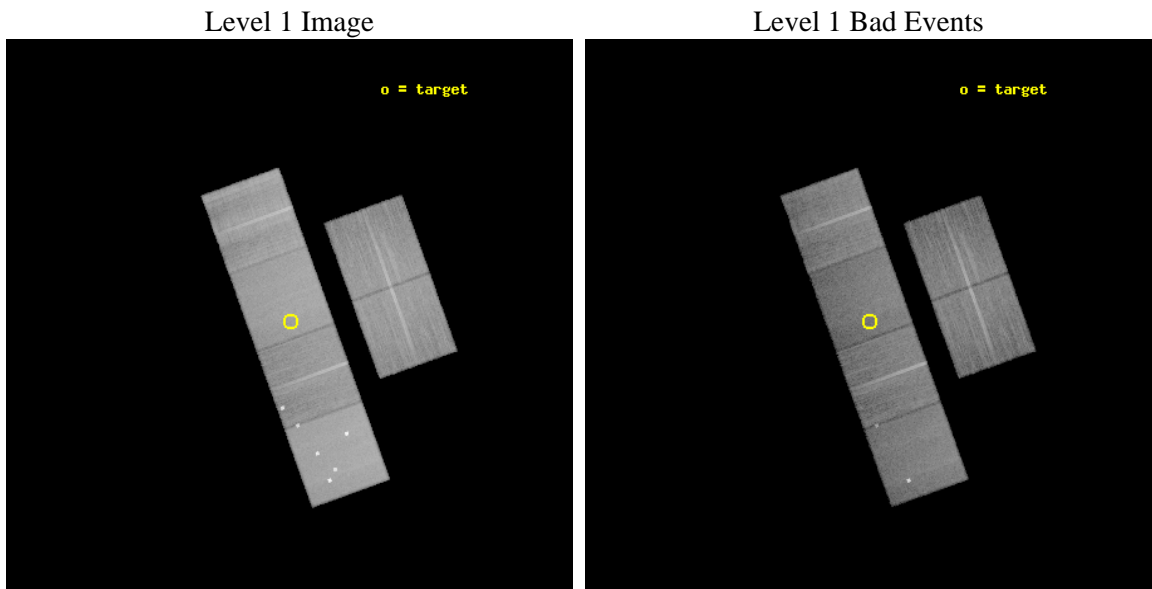
seq_num	401416	Sequence number
obs_id	14454	Observation id
title	The shortest orbital period black-hole X-ray binary in quiescence	
observer	Dr Jeroen Homan	Principal investigator
object	MAXI J1659-152	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	254.757083	Observer's specified target RA [deg]
dec_targ	-15.257889	Observer's specified target Dec [deg]
ra_nom	254.75899405303	Nominal RA [deg]
dec_nom	-15.260283062468	Nominal Dec [deg]
roll_nom	250.1571330652	Nominal Roll [deg]
revision	1	Processing version of data
ontime	35964.79986608	Sum of GTIs [s]
livetime	35509.391914773	Livetime [s]
ontime2	35964.79986608	Sum of GTIs [s]
ontime3	35964.79986608	Sum of GTIs [s]
ontime5	35964.79986608	Sum of GTIs [s]
ontime6	35964.79986608	Sum of GTIs [s]
ontime7	35964.79986608	Sum of GTIs [s]
ontime8	35958.317745507	Sum of GTIs [s]
l2events	355036	Number of level 2 events



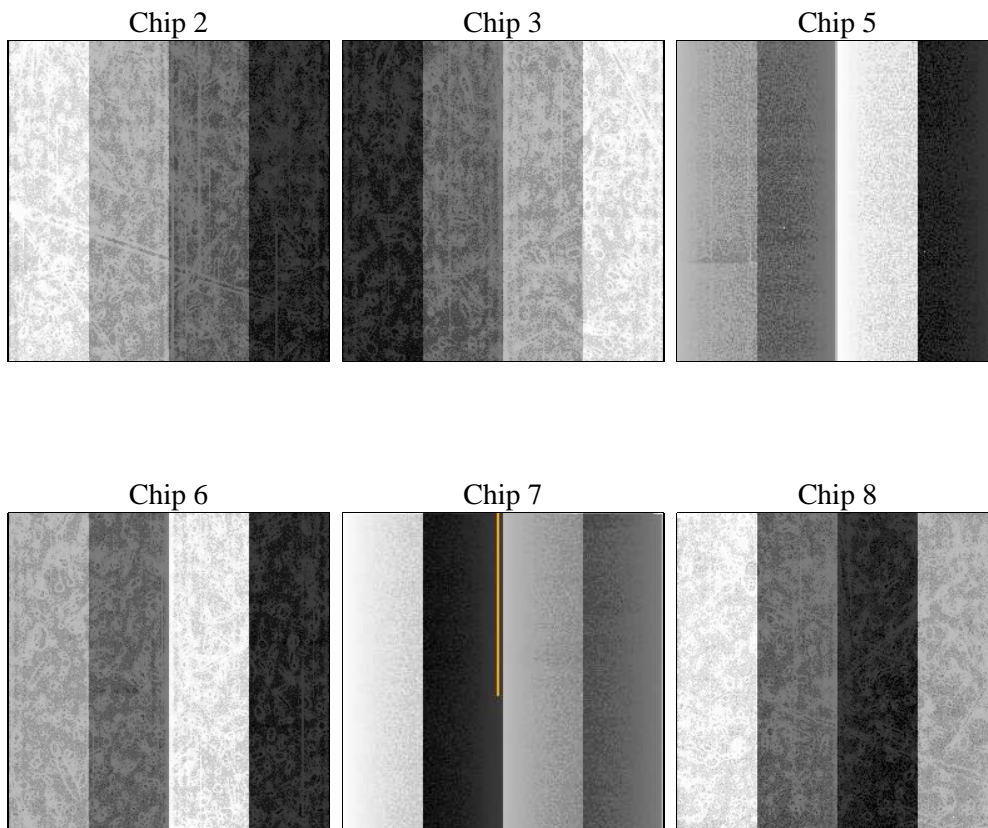
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	36000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	35964.79986608	Sum of GTIs [s]
caldbver	4.5.0	 	ontime2	35964.79986608	Sum of GTIs [s]
date	2012-07-03T18:04:57	Date and time of file creation	ontime3	35964.79986608	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	35964.79986608	Sum of GTIs [s]
			ontime6	35964.79986608	Sum of GTIs [s]
			ontime7	35964.79986608	Sum of GTIs [s]
			ontime8	35958.317745507	Sum of GTIs [s]
			l1events	1525560	Number of level 1 events

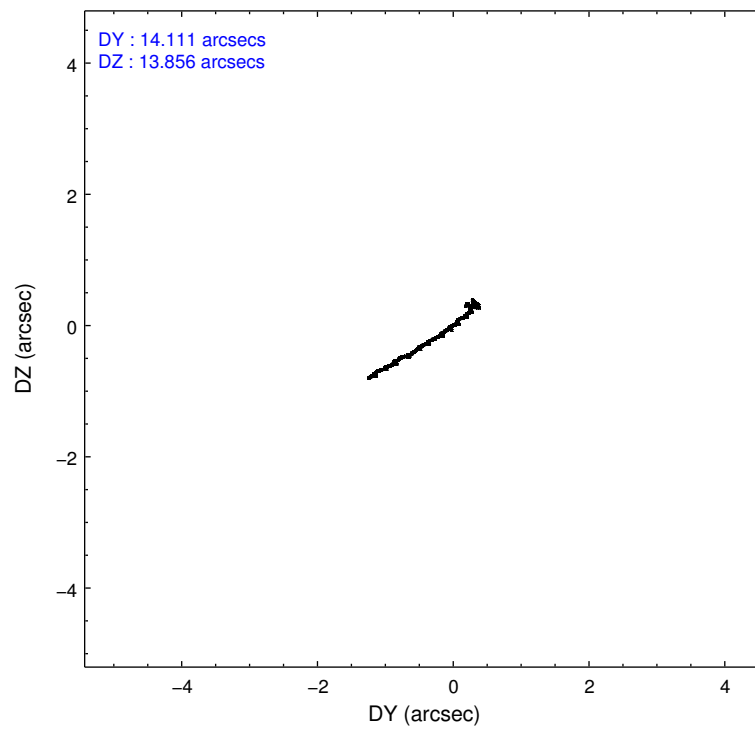
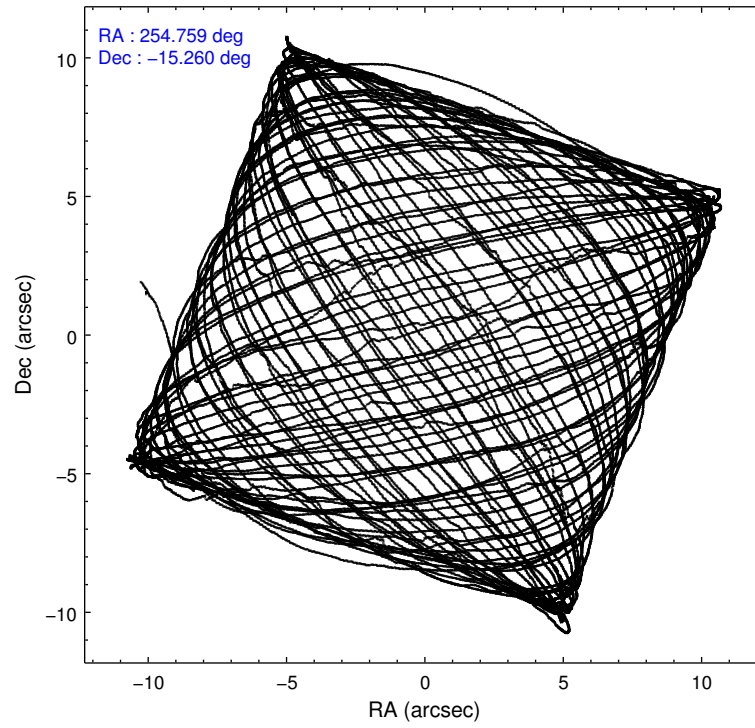
2.1.4 Events

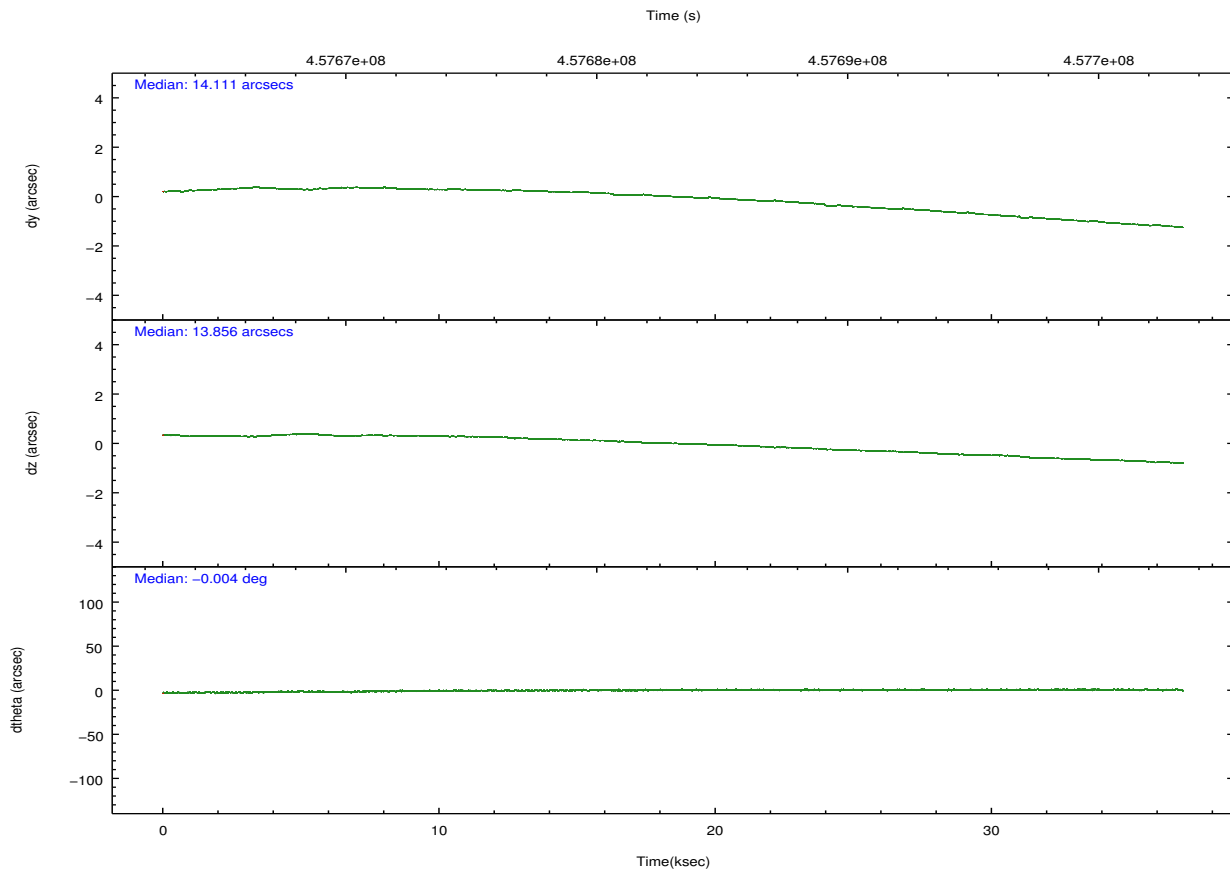
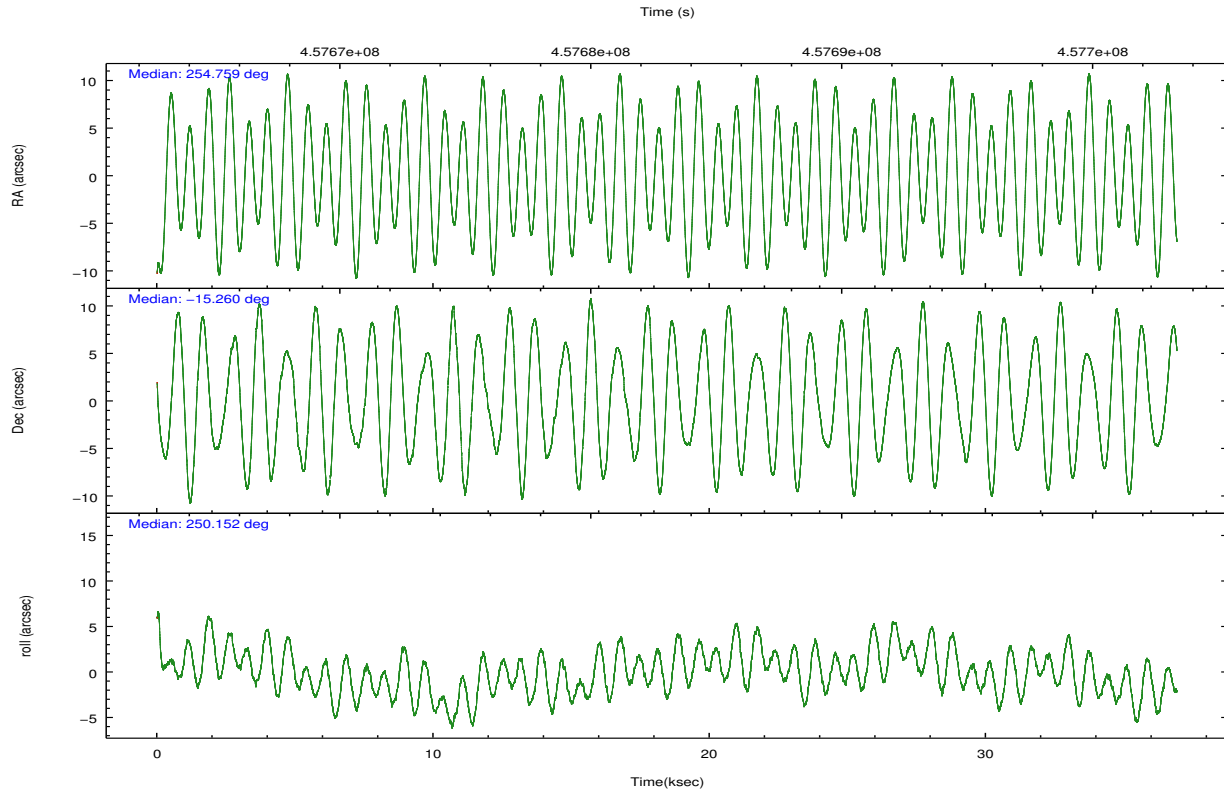
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	210798	201735	357284	209190	276042	270511	grade 0 events	8016	7782	30766	12736	10861	19472
rejected events	187951	179498	175609	180346	154554	200250		3%	3%	8%	6%	3%	7%
rejected %	89%	88%	49%	86%	55%	74%	grade 1 events	125	102	862	143	325	227
								0%	0%	0%	0%	0%	0%
							grade 2 events	5650	4888	51663	5482	24906	16748
								2%	2%	14%	2%	9%	6%
							grade 3 events	2360	2418	6173	2520	10579	7506
								1%	1%	1%	1%	3%	2%
							grade 4 events	2434	2537	5448	2535	10518	7158
								1%	1%	1%	1%	3%	2%
							grade 5 events	8866	10321	25495	10494	28510	14898
								4%	5%	7%	5%	10%	5%
							grade 6 events	4389	4612	87650	5572	64636	19379
								2%	2%	24%	2%	23%	7%
							grade 7 events	178958	169075	149227	169708	125707	185123
								84%	83%	41%	81%	45%	68%

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	254.753618	254.758994053029	CCD I2 on	Y	Y
[deg] Pointing Dec	-15.233437	-15.2602830624675	CCD I3 on	Y	Y
[deg] Pointing Roll	249.999089	250.1571330651995	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	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	O1	Y
[s] Observation start time (MET)	457665512.184000	457663966.17326	CCD S5 on	N	N
Observation start date	2012-07-03T01:17:25	2012-07-03T00:52:46	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	457701512.184000	457702512.32532	On-chip summing requested	N	N
Observation end date	2012-07-03T11:17:25	2012-07-03T11:35:12	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



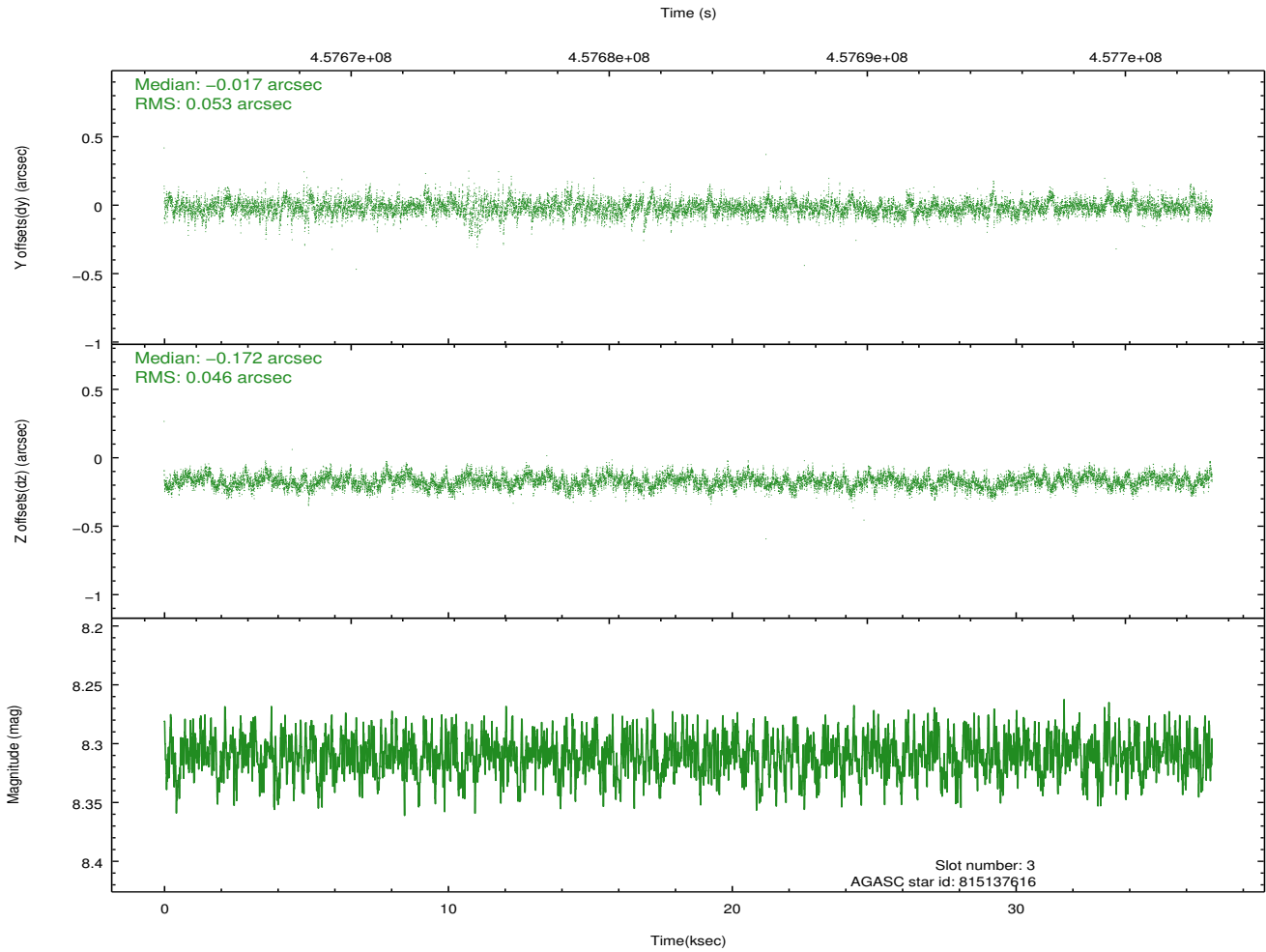
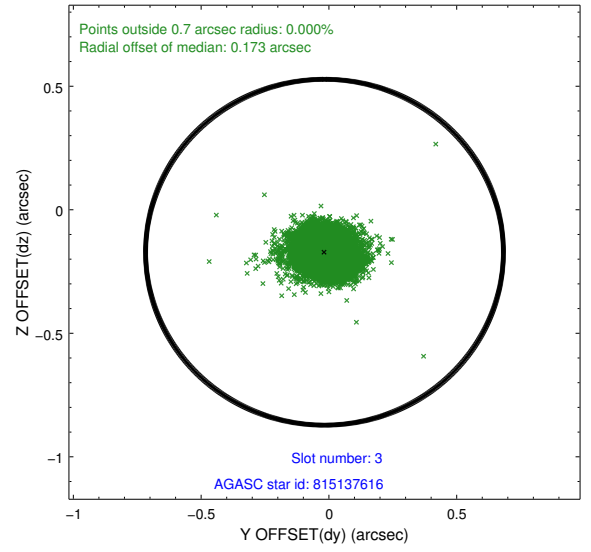
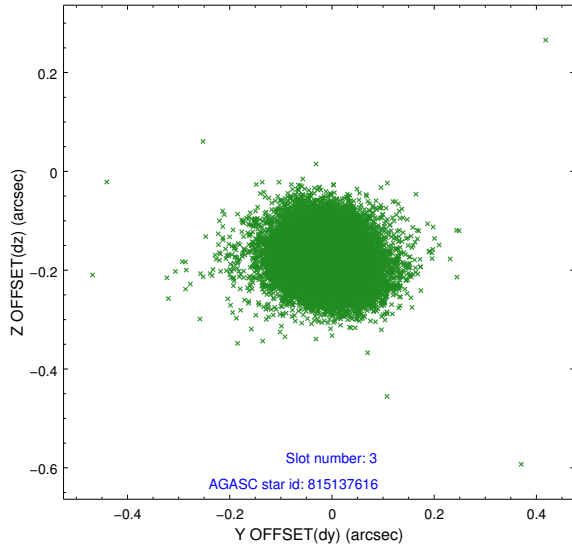


Slot Statistics

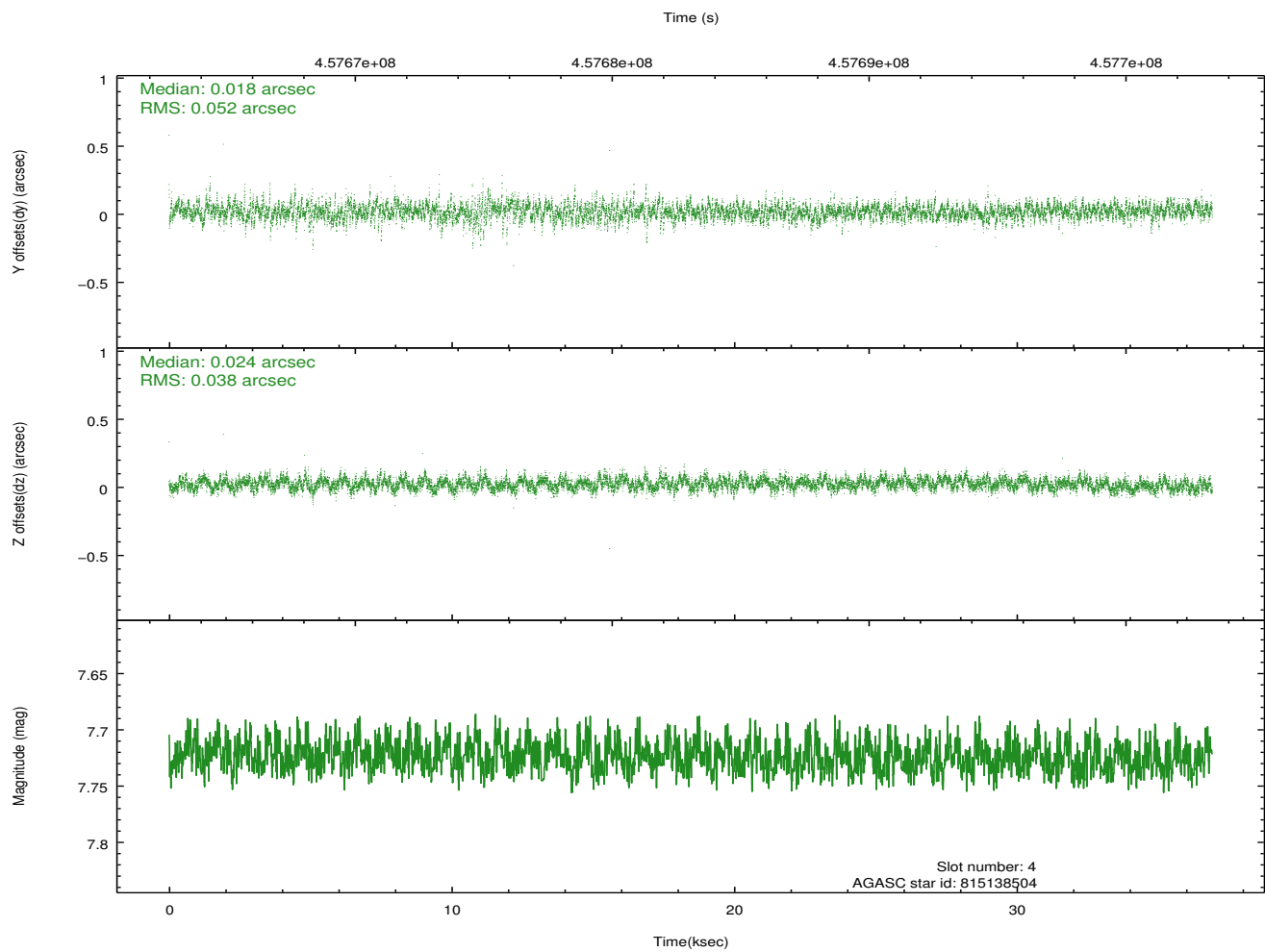
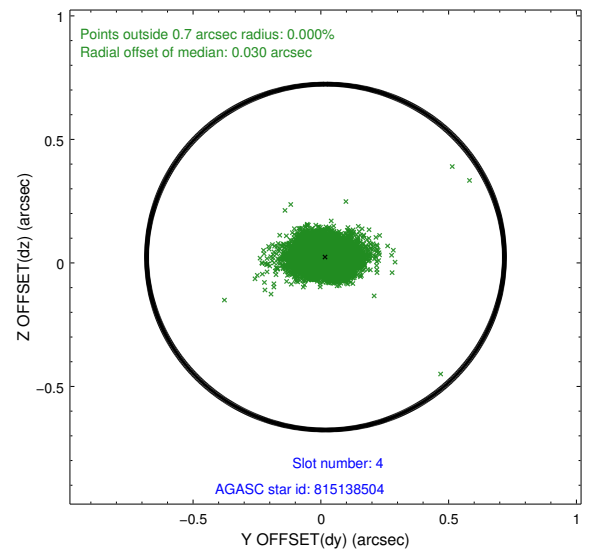
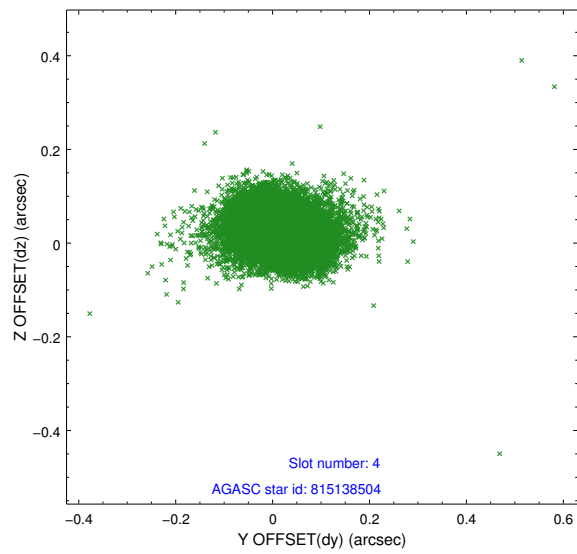
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.97	9005	-0.088	-0.054	0.024	0.048	0.000000	0.000000	-766.97	-1735.18
1	FID	ACIS-S-4	7.05	9003	0.253	0.058	0.030	0.063	0.000000	0.000000	2146.62	173.36
2	FID	ACIS-S-5	7.08	9005	-0.194	0.008	0.014	0.024	0.000000	0.000000	-1819.88	167.05
3	GUIDE	815137616	8.31	18007	-0.017	-0.172	0.072	0.124	254.741671	-15.811997	1972.46	673.85
4	GUIDE	815138504	7.72	18009	0.018	0.024	0.065	0.113	254.066938	-15.357519	1239.31	-2085.52
5	GUIDE	815138728	6.71	18010	-0.102	0.215	0.053	0.096	254.111345	-15.485495	1618.55	-1781.91
6	GUIDE	815140808	8.49	18004	0.108	-0.048	0.078	0.131	254.749682	-15.027918	-689.74	-264.52
7	GUIDE	741216560	9.03	17922	-0.002	-0.021	0.102	0.173	254.839054	-14.734715	-1788.63	-334.51

2.4 Star Slots

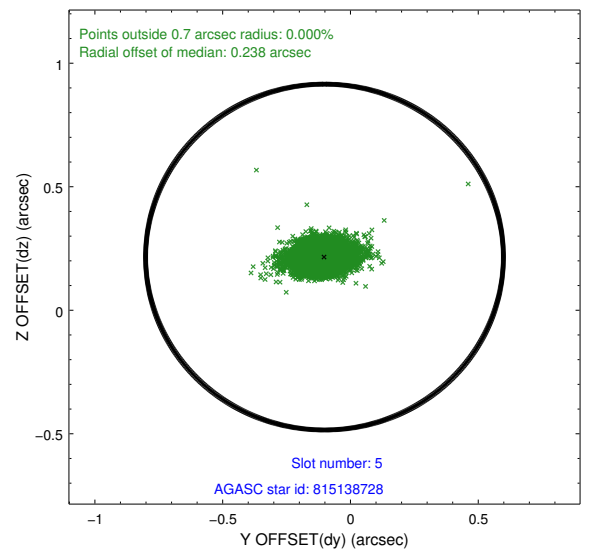
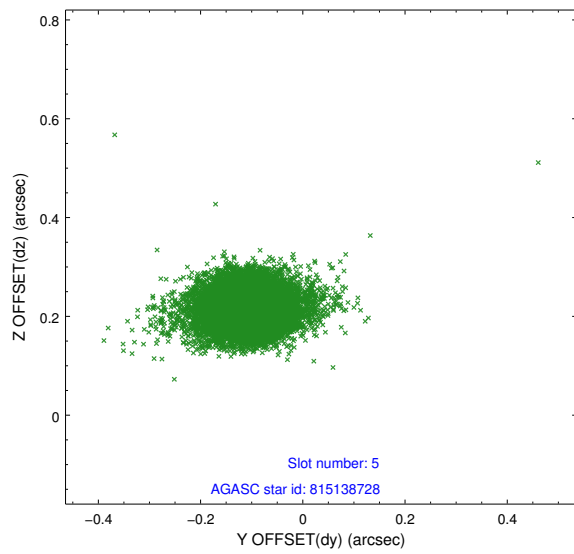
2.4.1 Slot 3



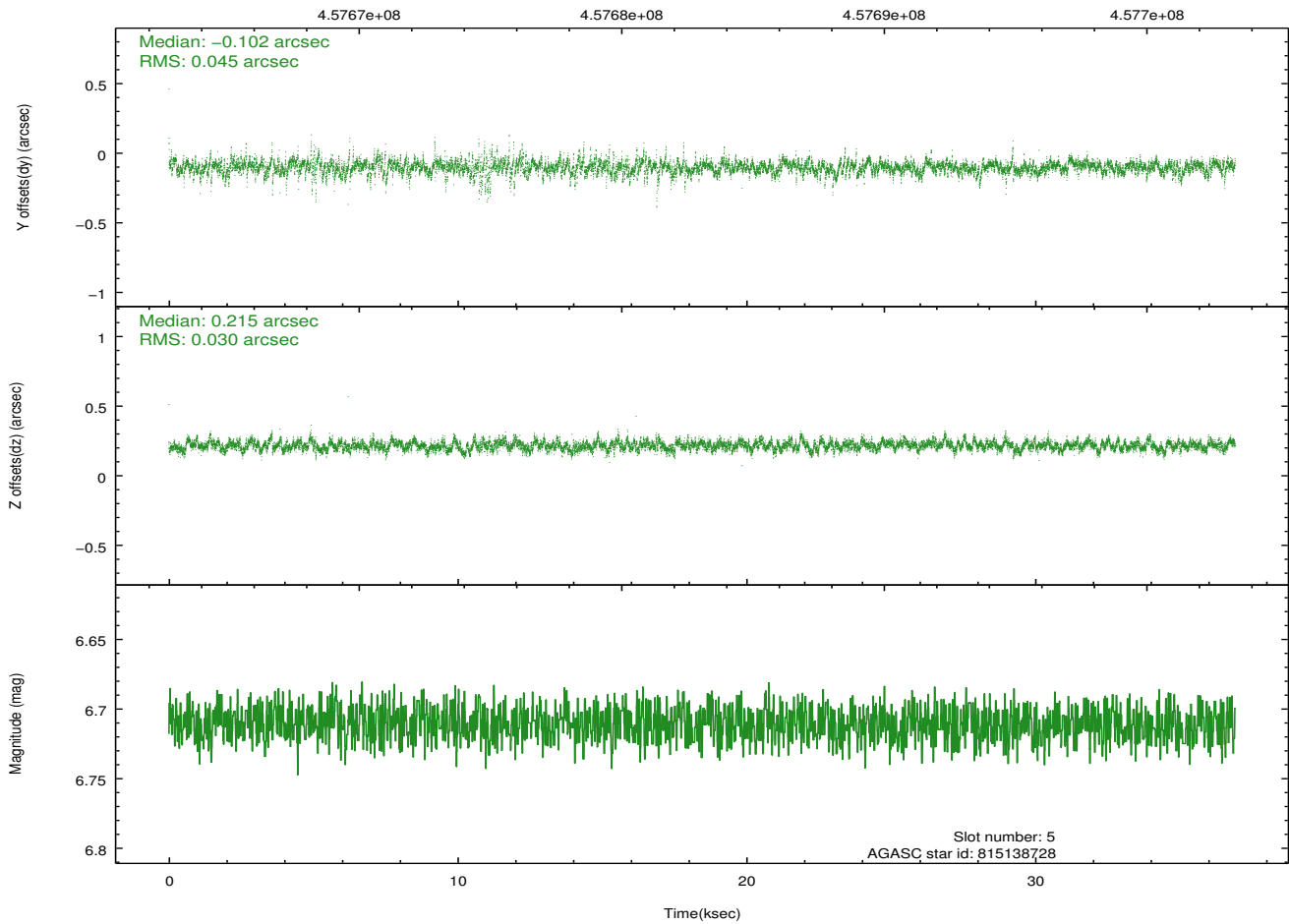
2.4.2 Slot 4



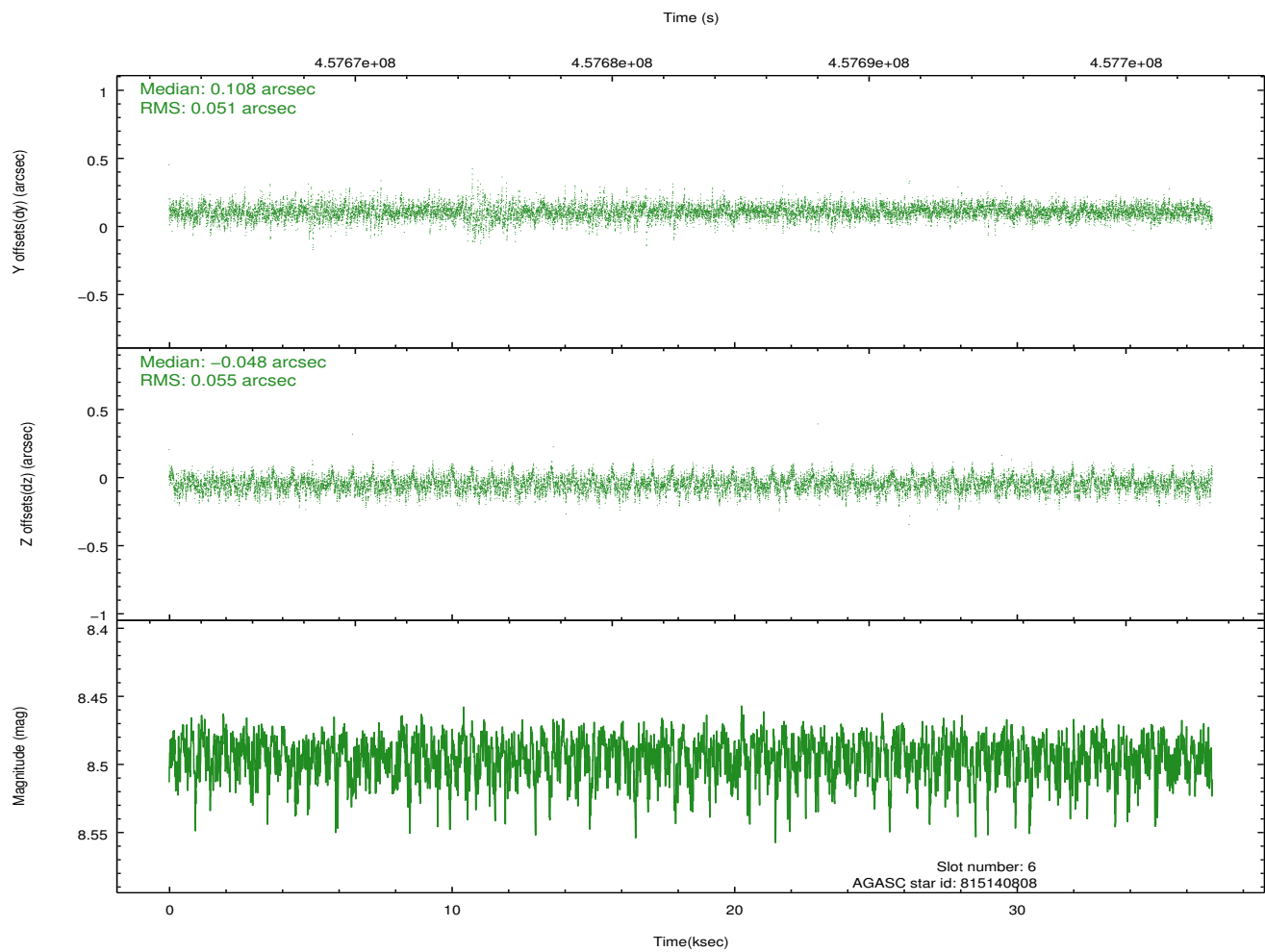
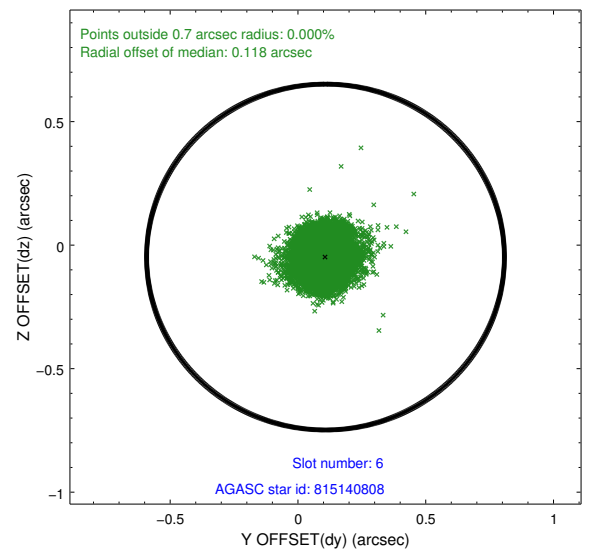
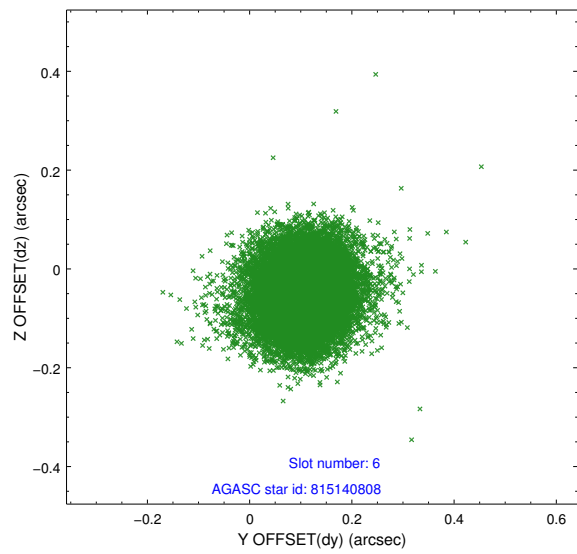
2.4.3 Slot 5



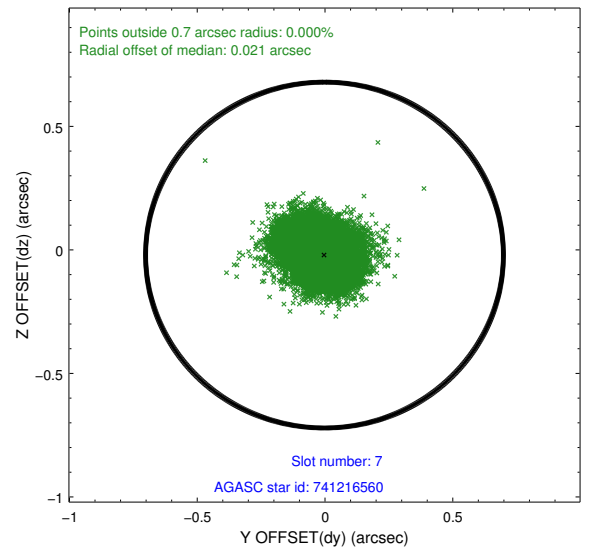
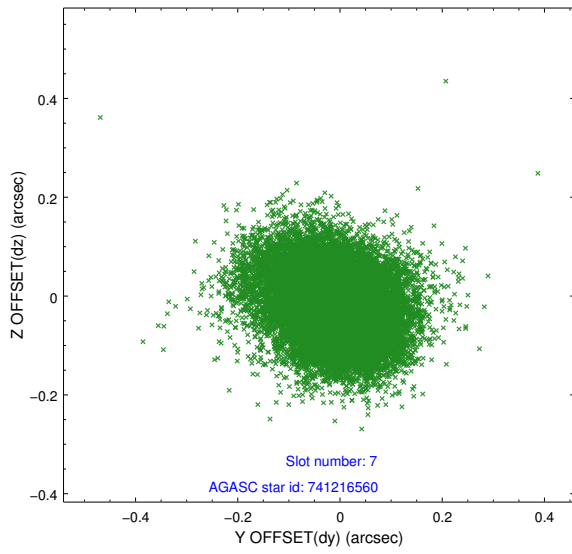
Time (s)



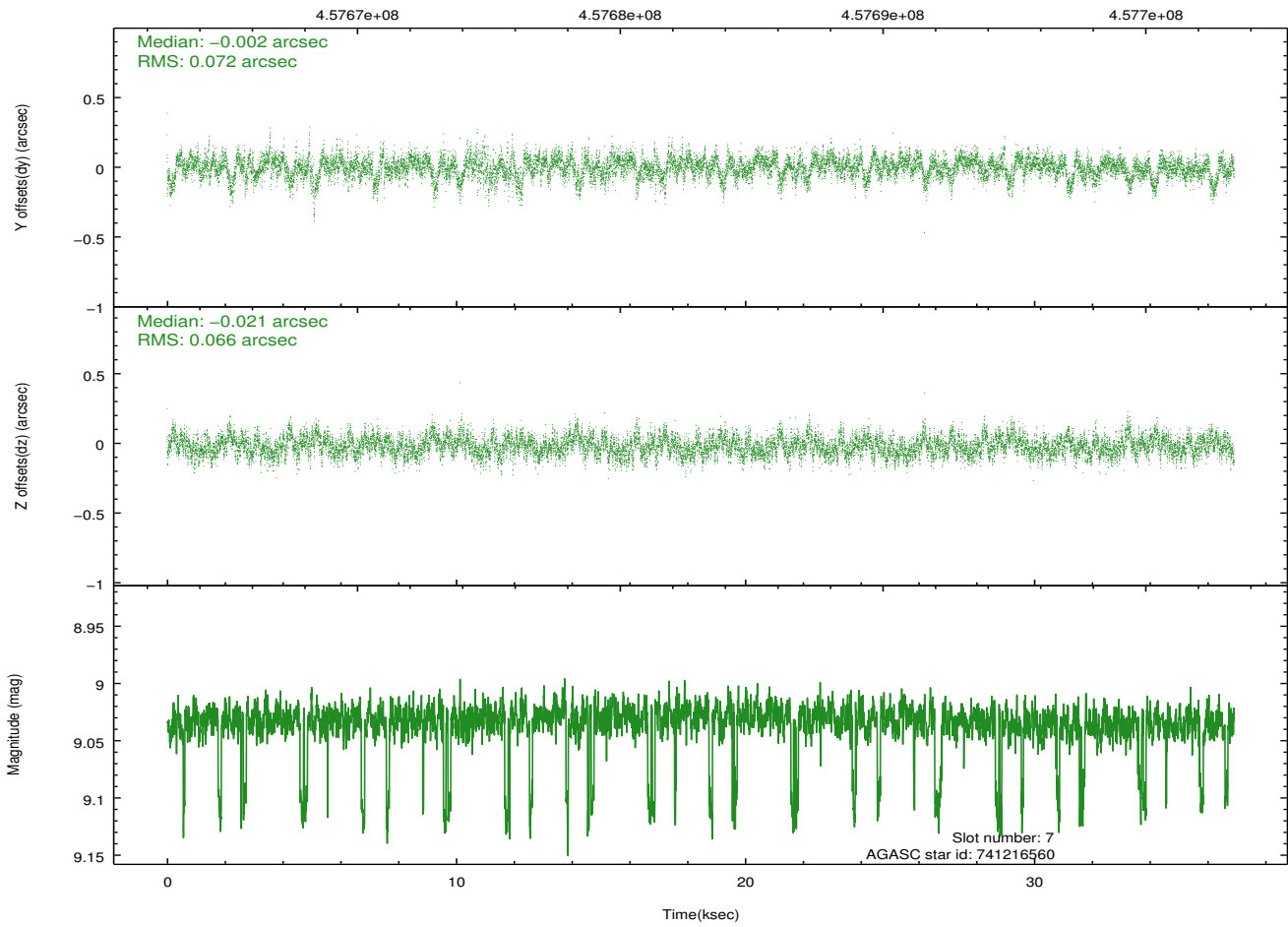
2.4.4 Slot 6



2.4.5 Slot 7

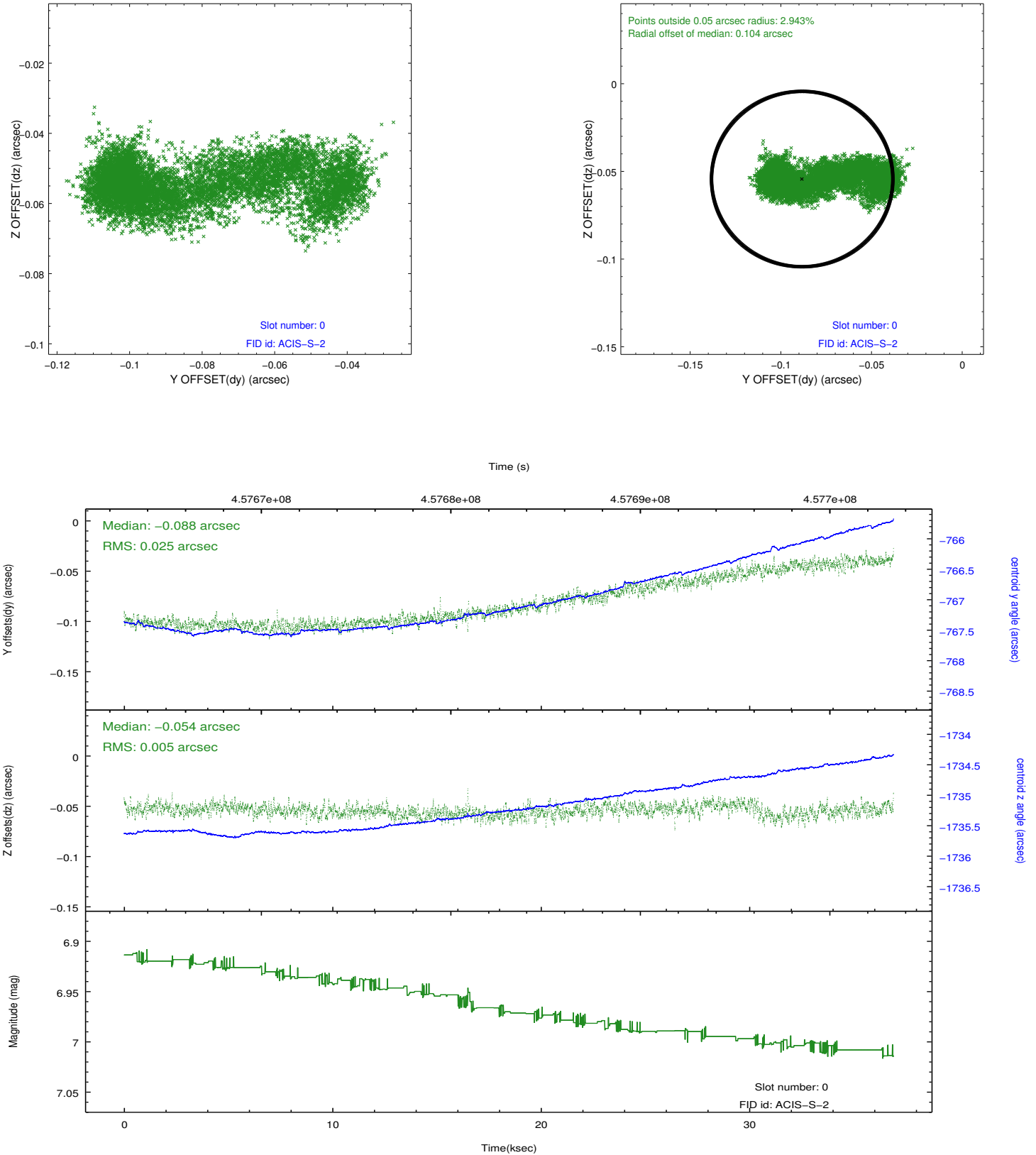


Time (s)

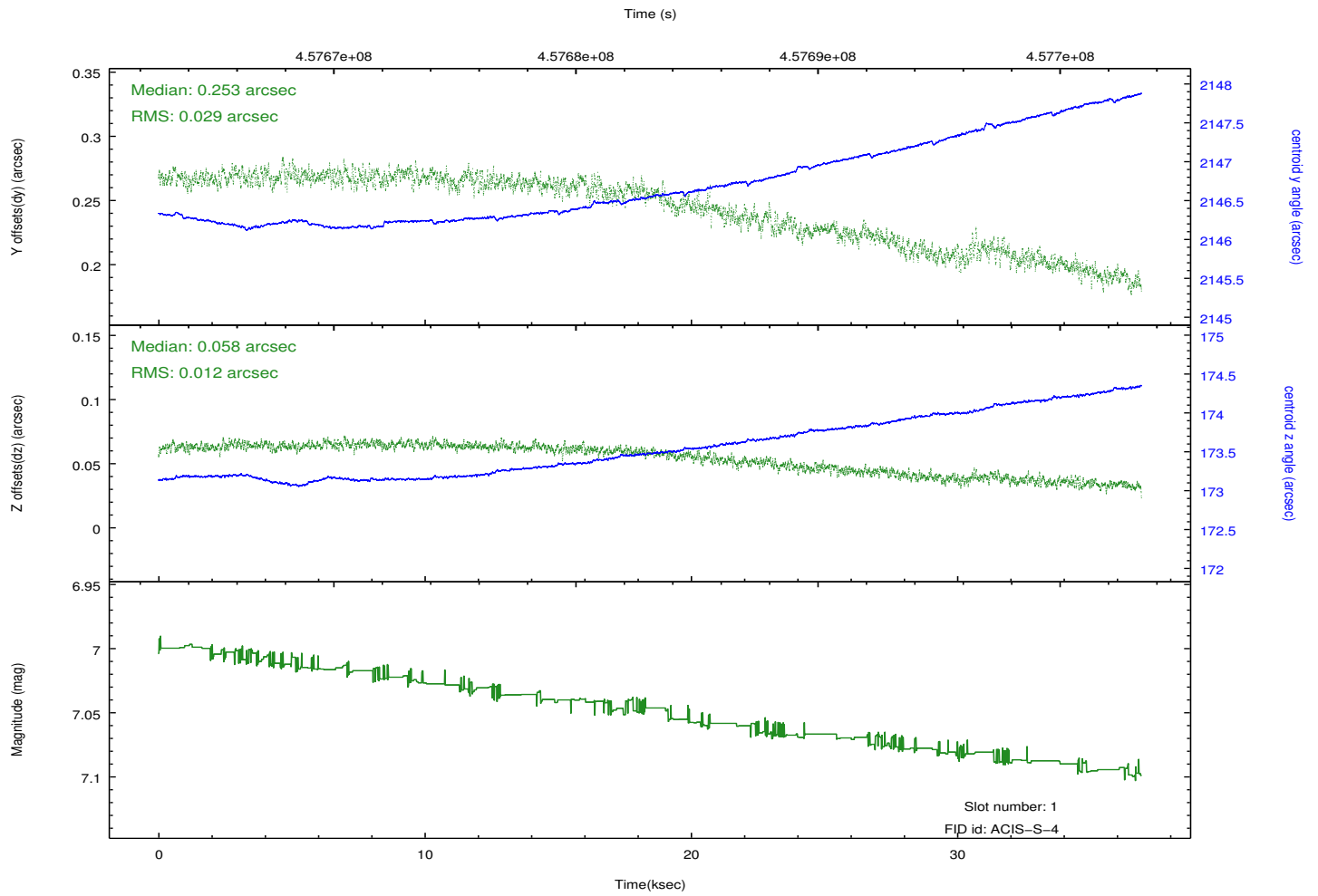
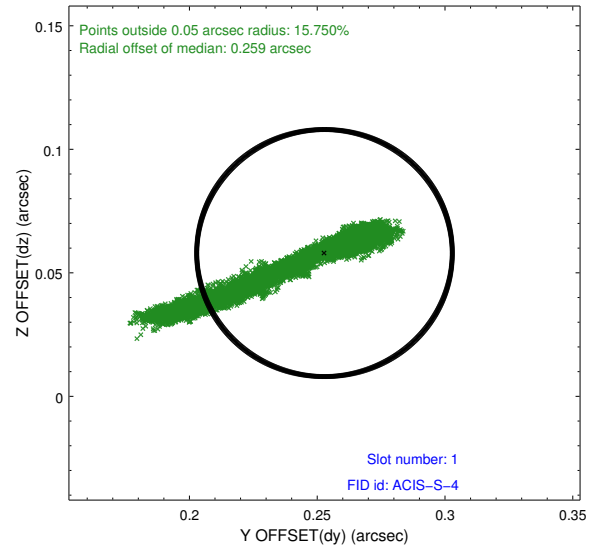
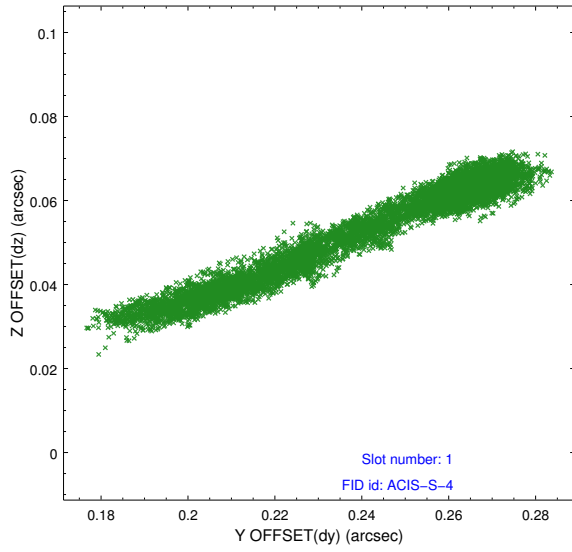


2.5 FID Slots

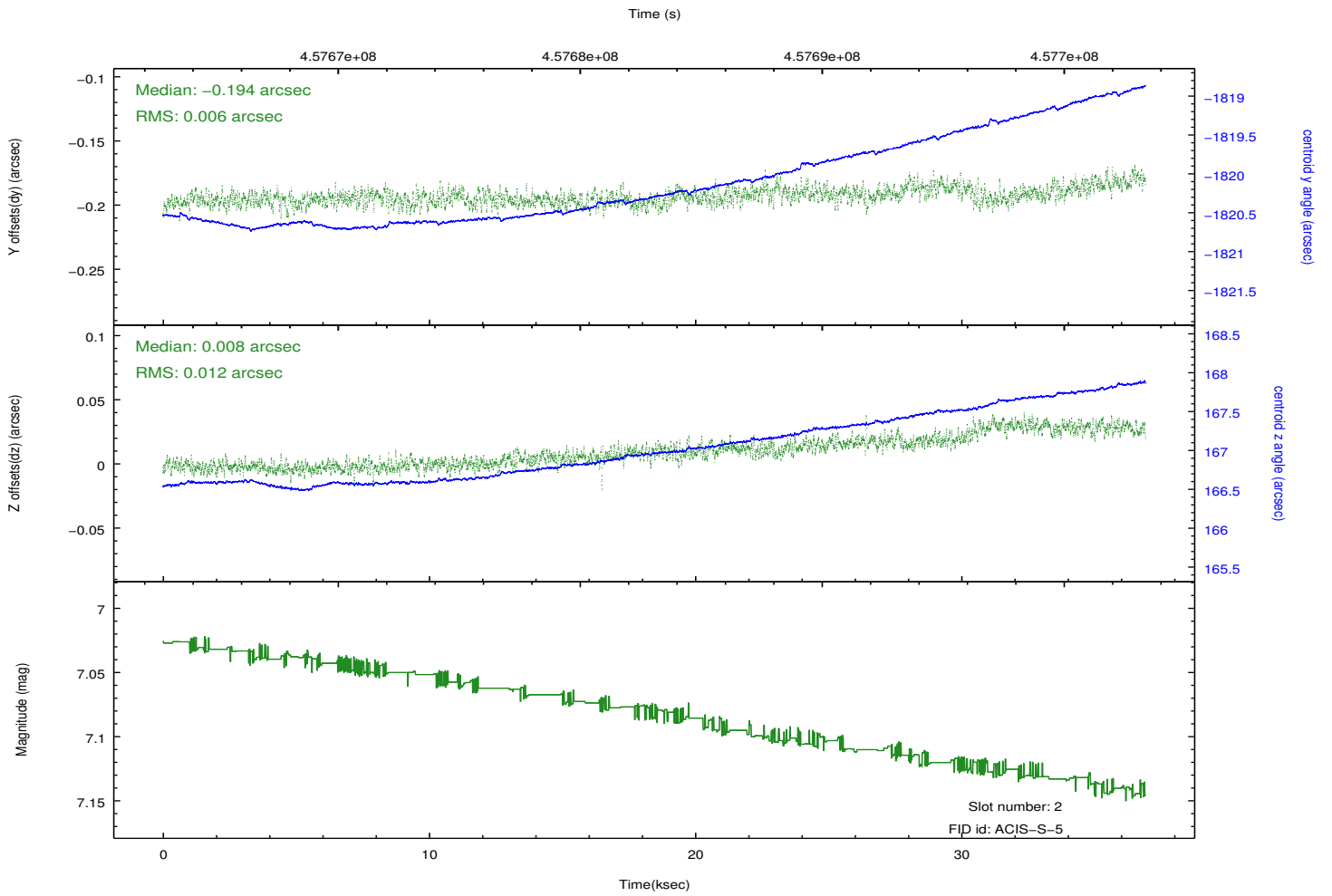
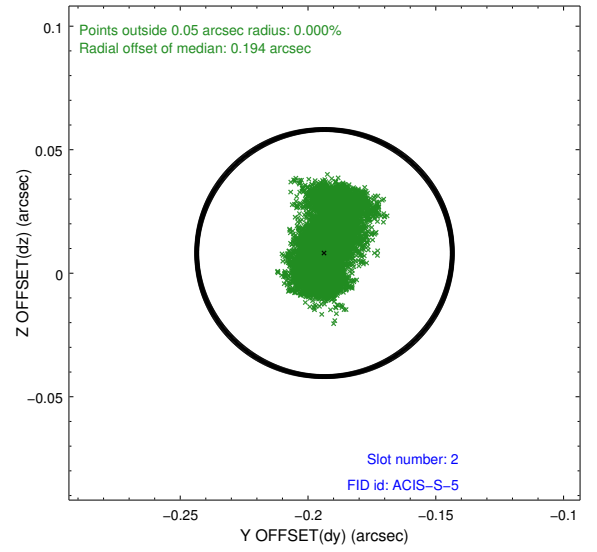
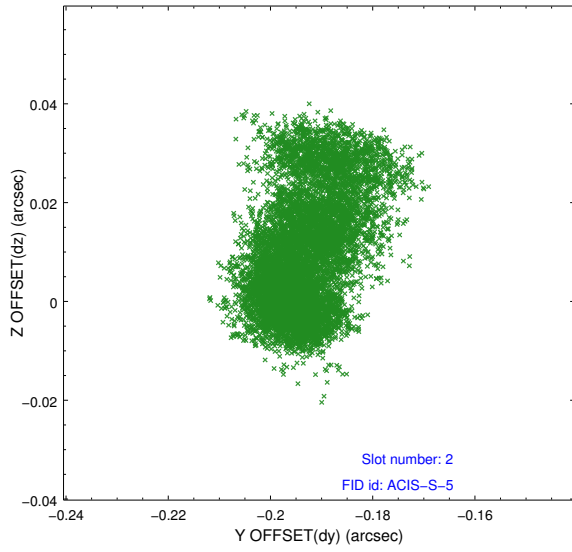
2.5.1 Slot 0



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)	2012.07.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.96479986608

A.2 Comments

Window preference met.