

V&V Reference Report

L2 ASCDS Version : 10.3

Observation 16006 - L2 Version 2
Chandra X-Ray Center

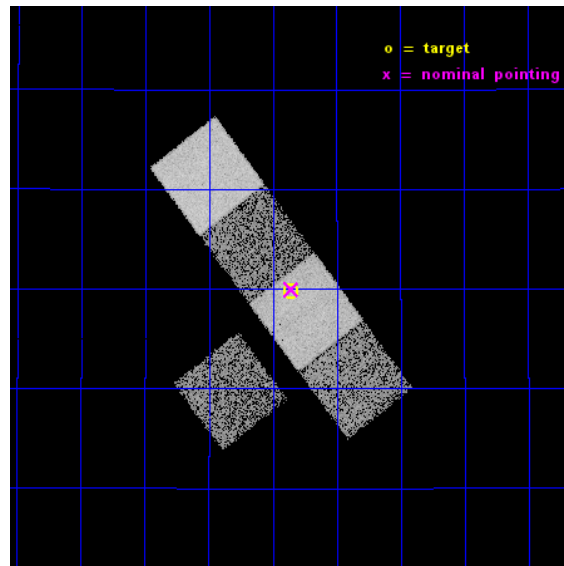
L2 Processing Date : Nov 19 2014

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1 Front

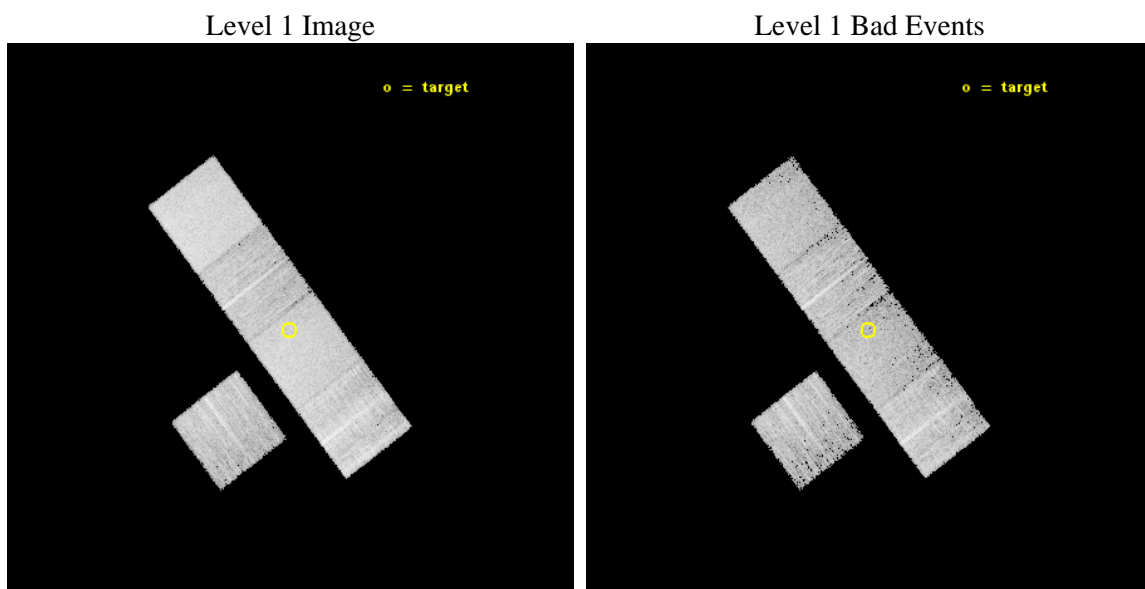
seq_num	502239	Sequence number
obs_id	16006	Observation id
title	The Energetics and Environments of Type Ibc Supernovae	Proposal ti
observer	Dr Alicia Soderberg	Principal investigator
object	PSN J120451.50+265946.	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	181.214583	Observer's specified target RA [deg]
dec_targ	26.996278	Observer's specified target Dec [deg]
ra_nom	181.21340588447	Nominal RA [deg]
dec_nom	26.999259291486	Nominal Dec [deg]
roll_nom	52.733666202665	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9772.9128041863	Sum of GTIs [s]
livetime	9645.2225036859	Livetime [s]
ontime3	9772.7896841764	Sum of GTIs [s]
ontime5	9772.871764183	Sum of GTIs [s]
ontime6	9772.8307241797	Sum of GTIs [s]
ontime7	9772.9128041863	Sum of GTIs [s]
ontime8	9760.1845638156	Sum of GTIs [s]
l2events	85074	Number of level 2 events



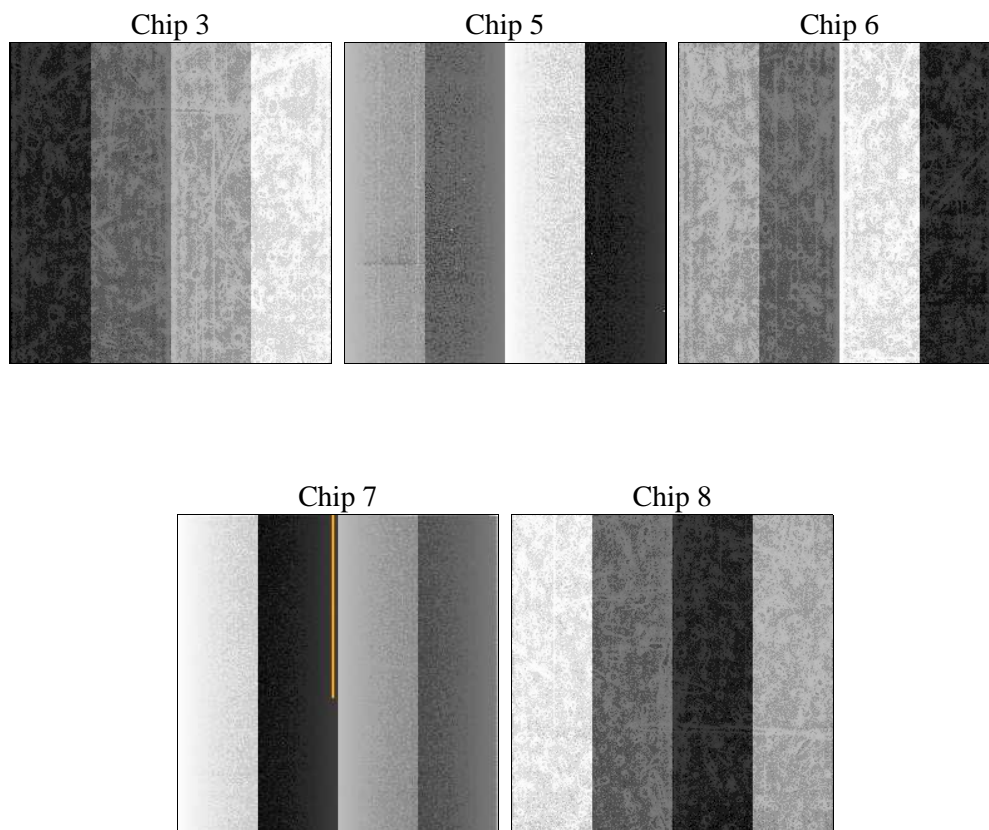
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.399000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	9772.9128041863	Sum of GTIs [s]
caldsver	4.6.4	 	ontime3	9772.7896841764	Sum of GTIs [s]
date	2014-11-19T18:34:35	Date and time of file creation	ontime5	9772.871764183	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	9772.8307241797	Sum of GTIs [s]
			ontime7	9772.9128041863	Sum of GTIs [s]
			ontime8	9760.1845638156	Sum of GTIs [s]
			l1events	323085	Number of level 1 events

2.1.4 Events

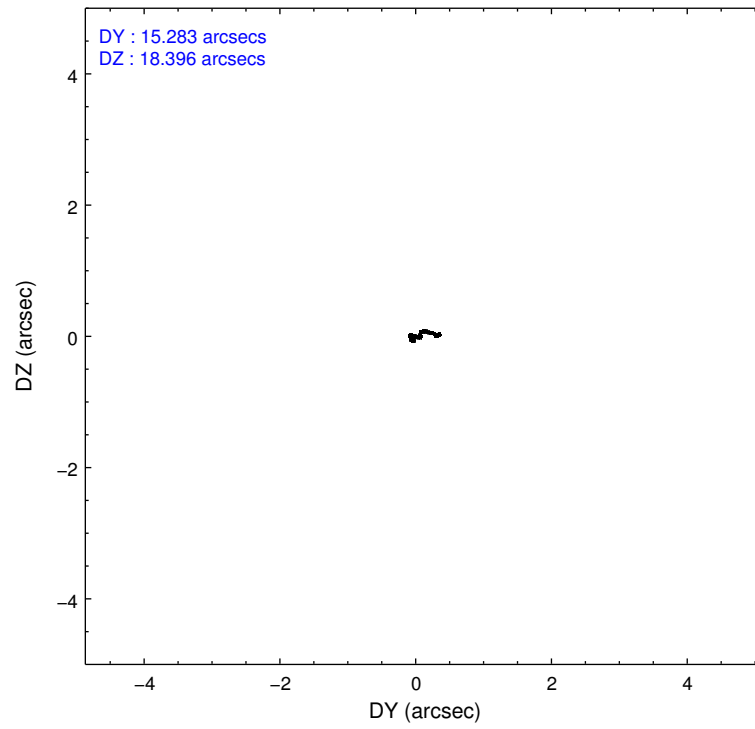
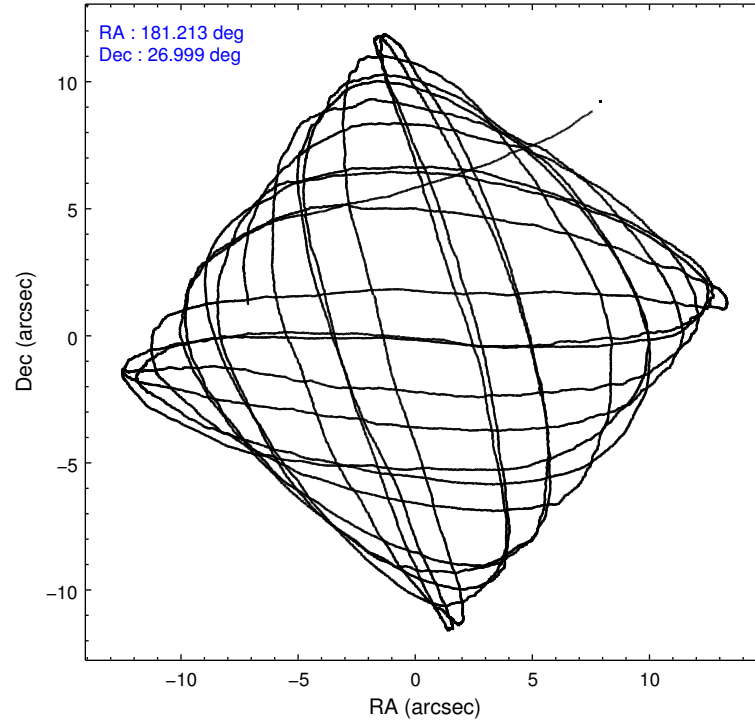
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	49014	82006	51320	69414	71331
rejected events	43368	43082	45184	39082	52671
rejected %	88%	52%	88%	56%	73%

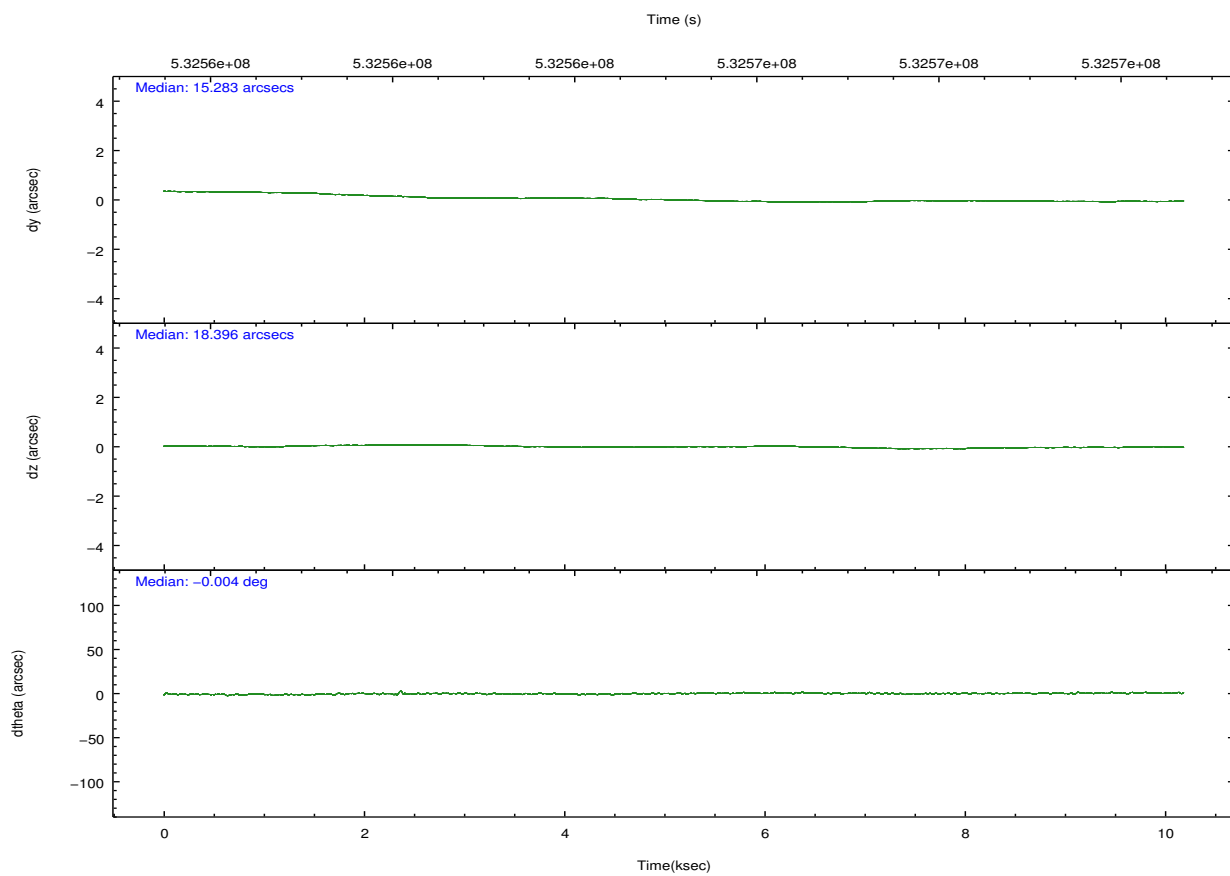
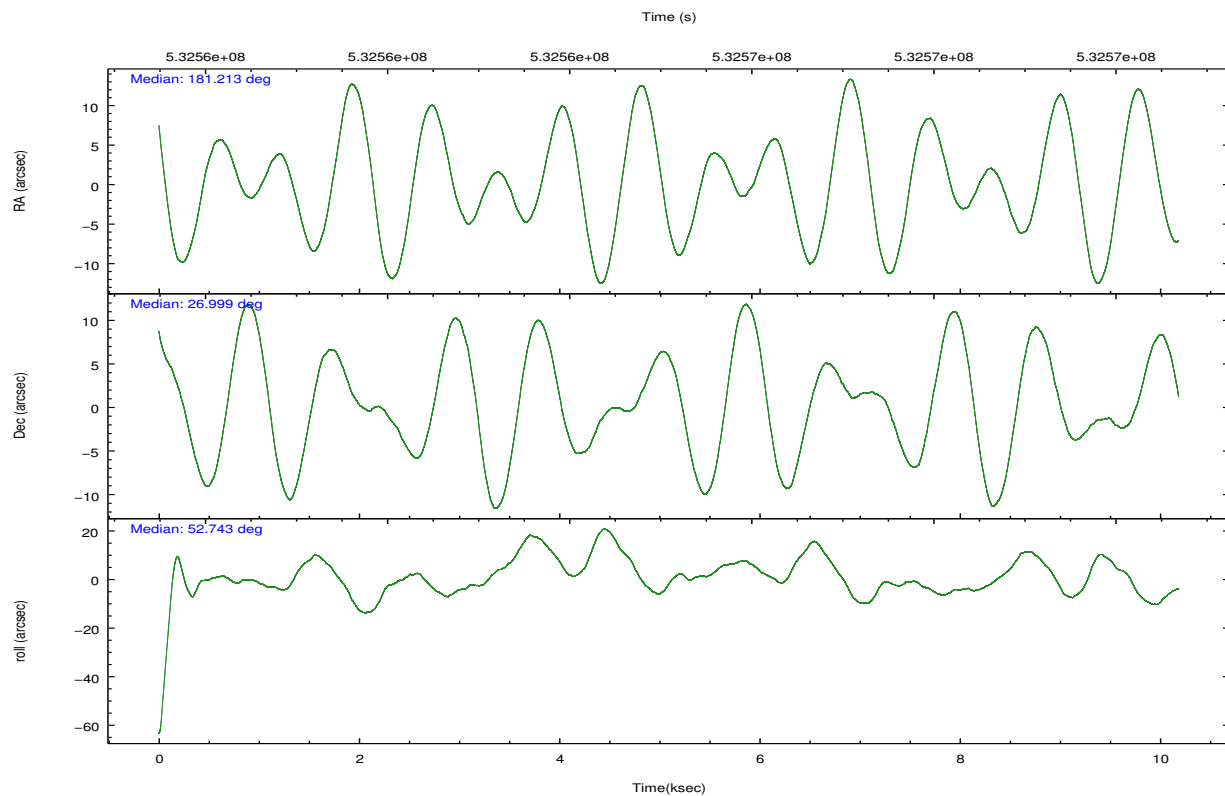
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1983	2355	2137	2637	5496
	4%	2%	4%	3%	7%
grade 1 events	21	121	25	98	57
	0%	0%	0%	0%	0%
grade 2 events	1248	12147	1377	6409	4466
	2%	14%	2%	9%	6%
grade 3 events	592	1410	637	2608	1851
	1%	1%	1%	3%	2%
grade 4 events	593	1387	582	2570	1780
	1%	1%	1%	3%	2%
grade 5 events	2677	6145	2635	7212	3868
	5%	7%	5%	10%	5%
grade 6 events	1234	21656	1409	16124	5071
	2%	26%	2%	23%	7%
grade 7 events	40666	36785	42518	31756	48742
	82%	44%	82%	45%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	181.209943	181.2134058844664	CCD I2 on	N	N
[deg] Pointing Dec	26.971953	26.99925929148582	CCD I3 on	O1	Y
[deg] Pointing Roll	52.578702	52.73366620266533	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	Y	Y
[s] Observation start time (MET)	532560179.184000	532559462.58476	CCD S5 on	N	N
Observation start date	2014-11-16T21:21:52	2014-11-16T21:11:02	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	532570180.184000	532570405.99786	On-chip summing requested	N	N
Observation end date	2014-11-17T00:08:33	2014-11-17T00:13:25	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



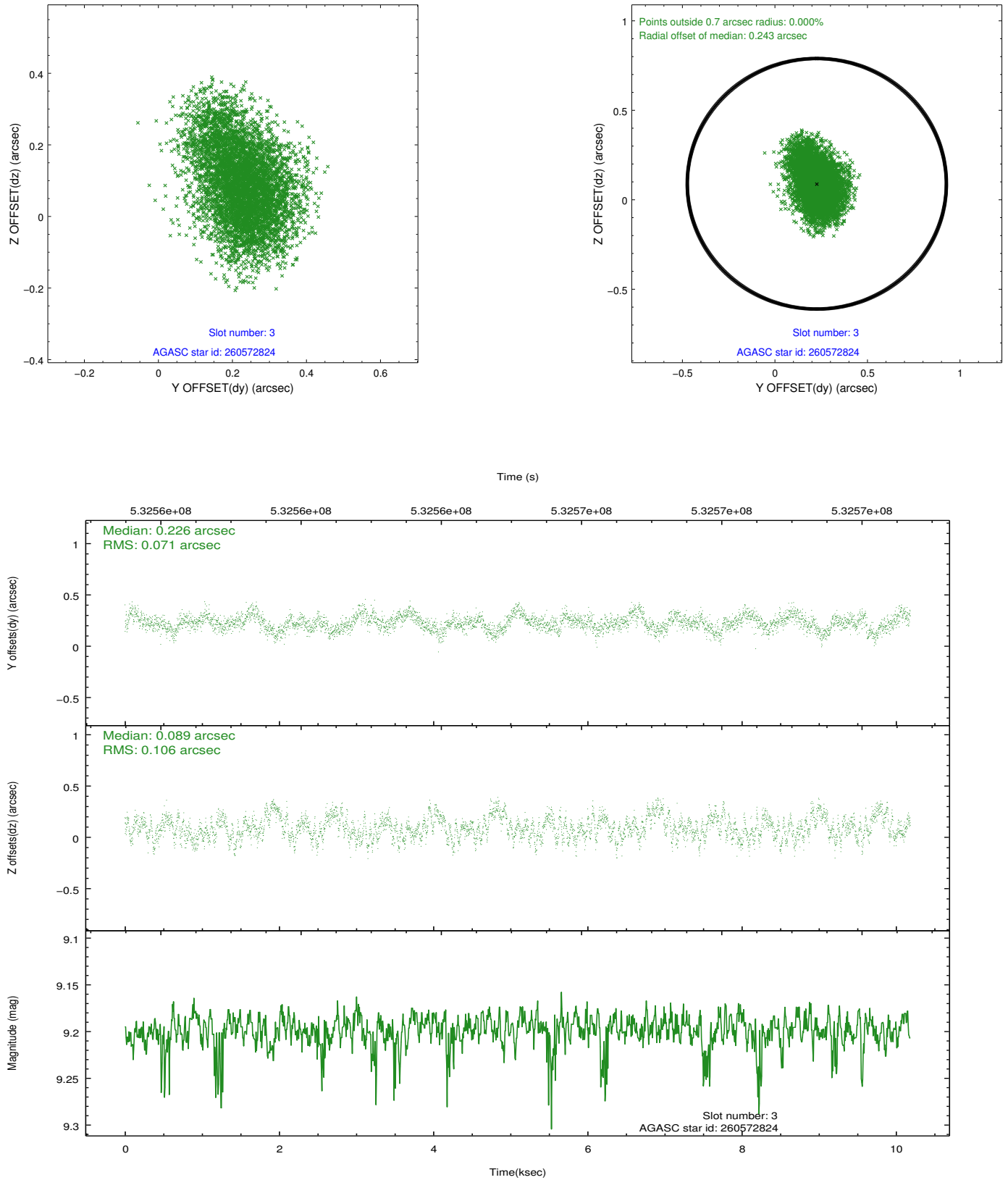


Slot Statistics

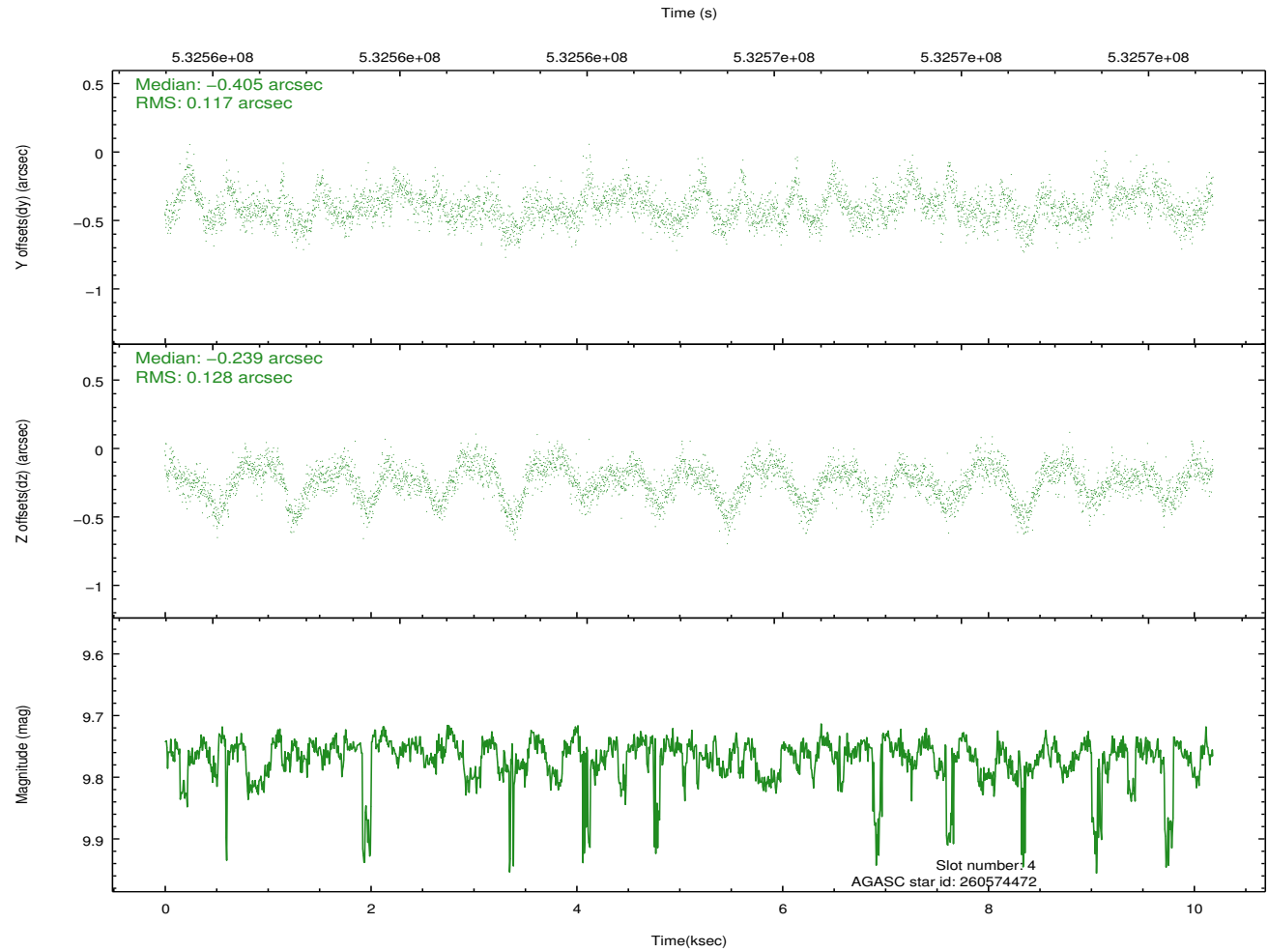
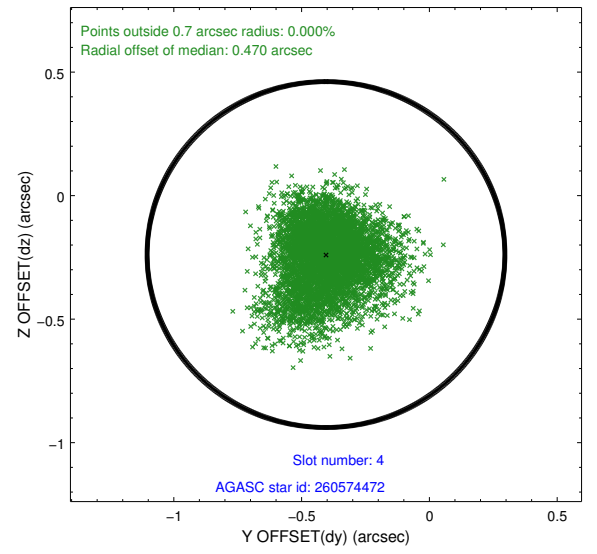
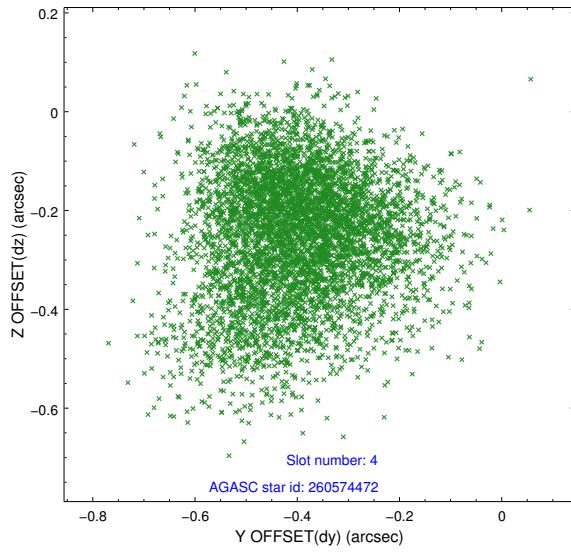
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.10	2484	0.185	0.013	0.008	0.014	0.000000	0.000000	2145.22	168.78
1	FID		ACIS-S-5	7.13	2484	-0.198	0.014	0.009	0.016	0.000000	0.000000	-1820.69	162.36
2	FID		ACIS-S-6	7.23	2484	-0.016	-0.013	0.007	0.012	0.000000	0.000000	392.72	806.04
3	GUIDE	used	260572824	9.20	4968	0.226	0.089	0.137	0.222	181.476098	26.467190	-921.74	-1784.28
4	GUIDE	used	260574472	9.76	4955	-0.405	-0.239	0.183	0.302	181.532829	27.548693	2276.04	443.52
5	GUIDE	used	260578712	9.50	4967	0.071	0.027	0.172	0.294	181.477799	26.669552	-339.17	-1344.75
6	GUIDE	used	260581192	9.44	4963	0.083	0.128	0.166	0.244	181.389298	26.361347	-1393.42	-1794.58
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

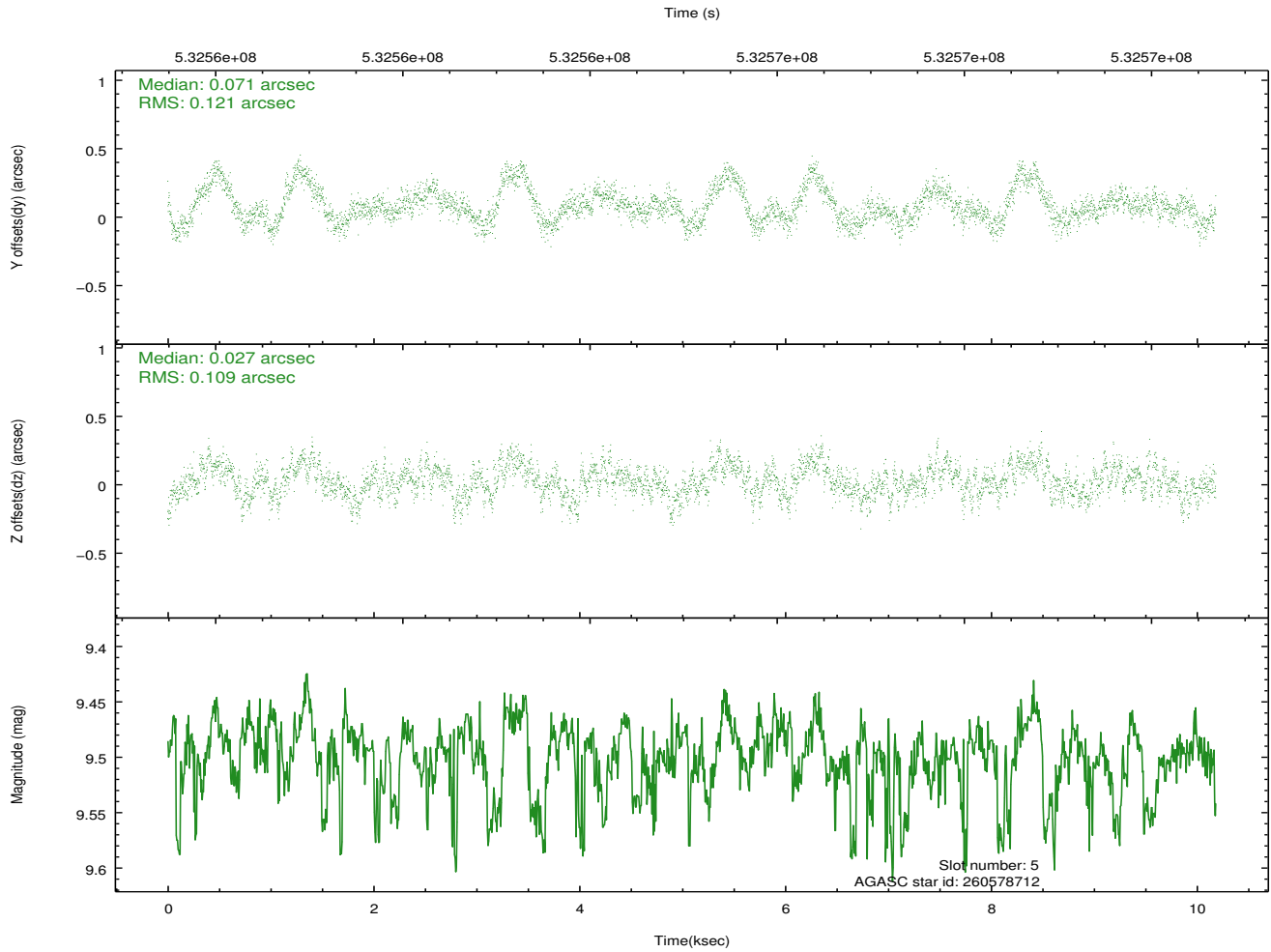
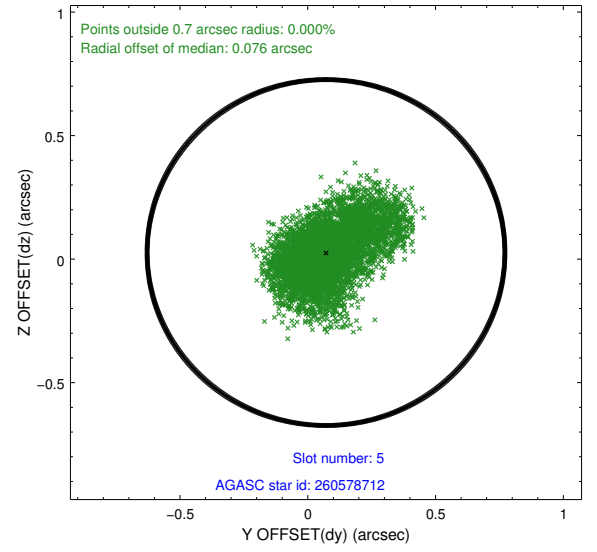
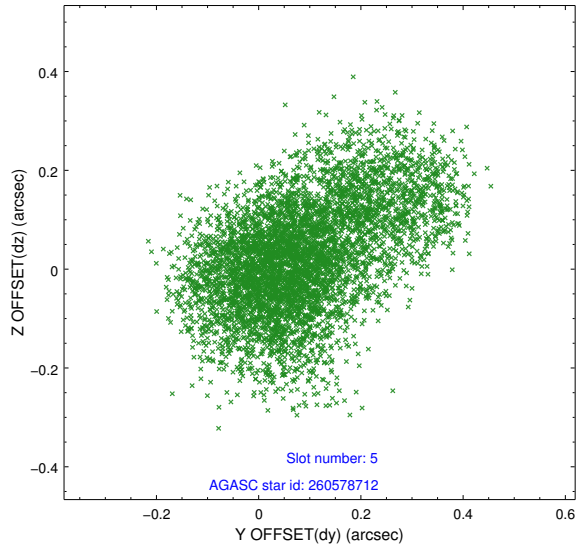
2.4.1 Slot 3



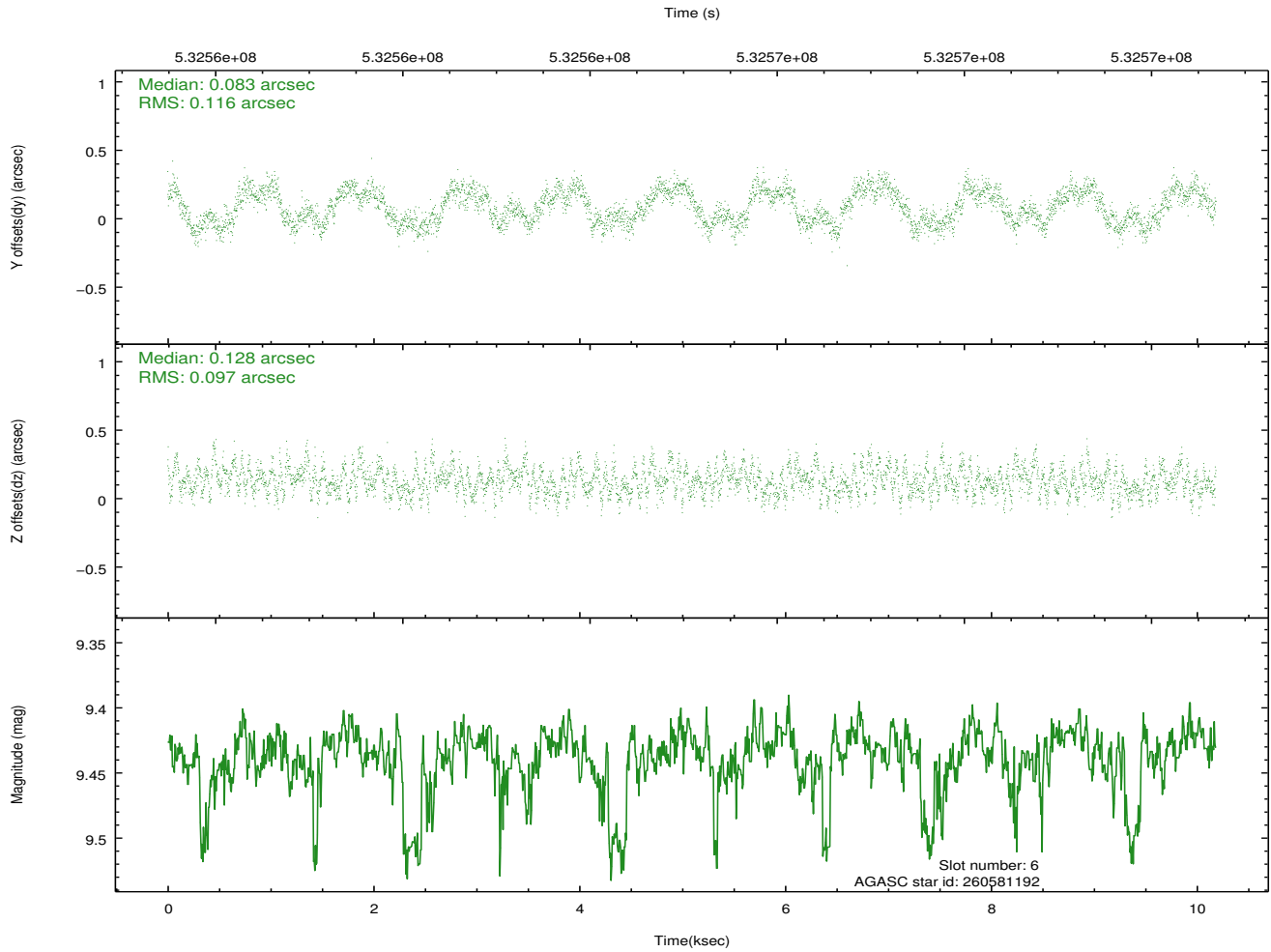
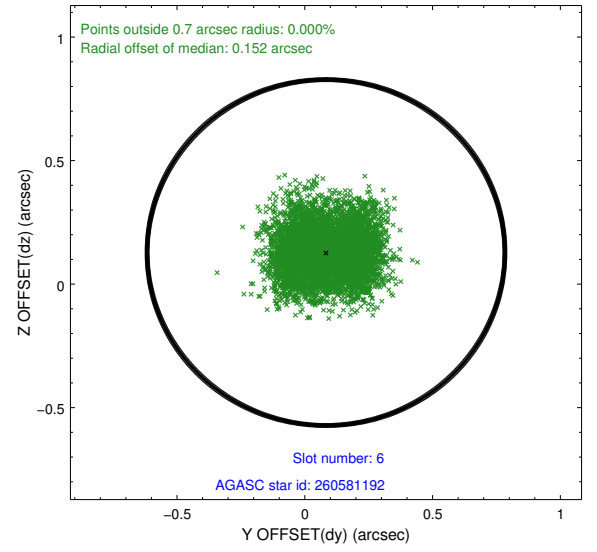
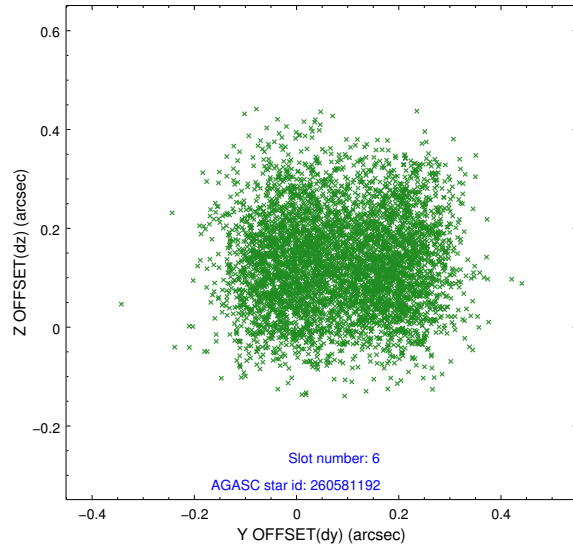
2.4.2 Slot 4



2.4.3 Slot 5

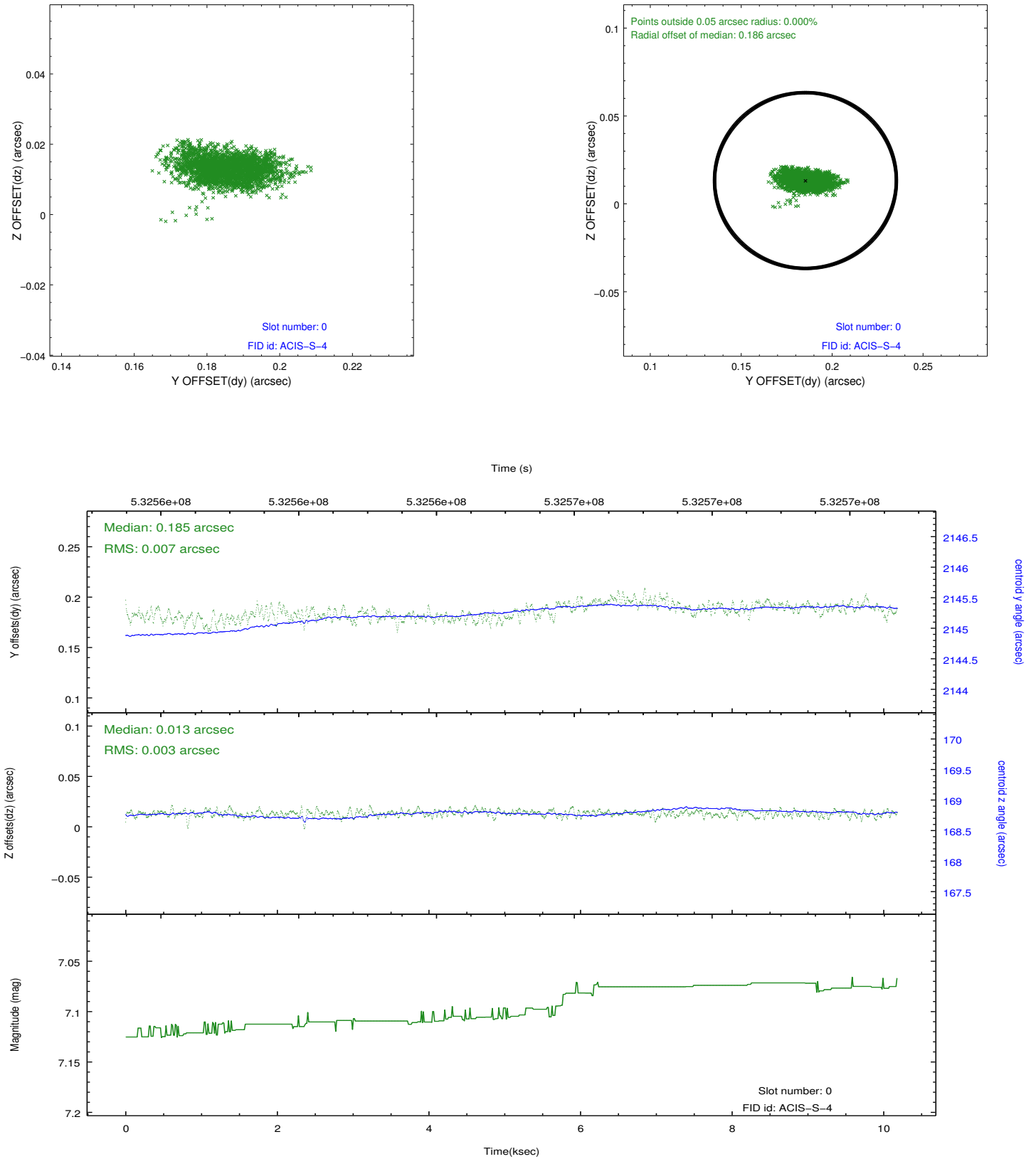


2.4.4 Slot 6

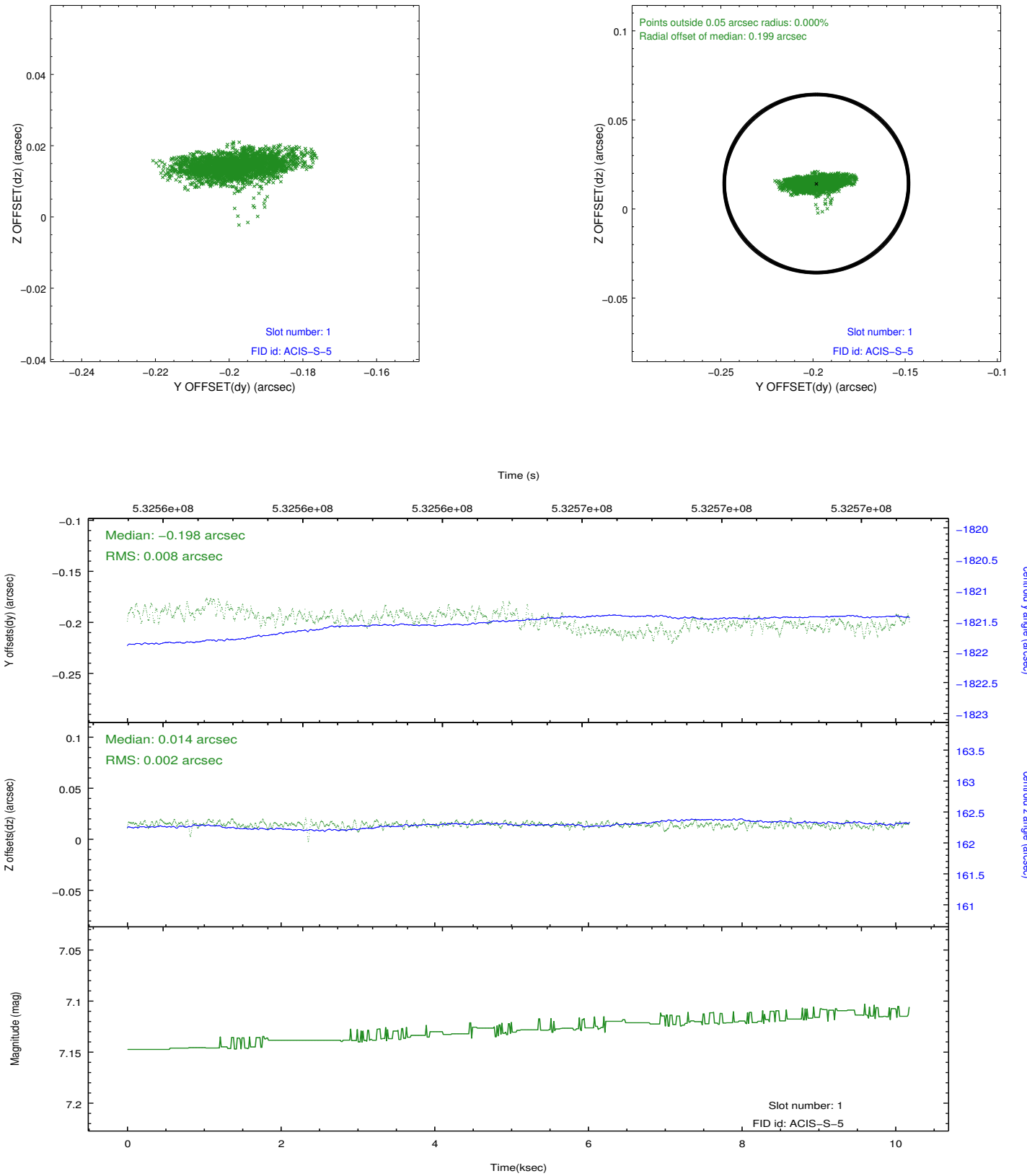


2.5 FID Slots

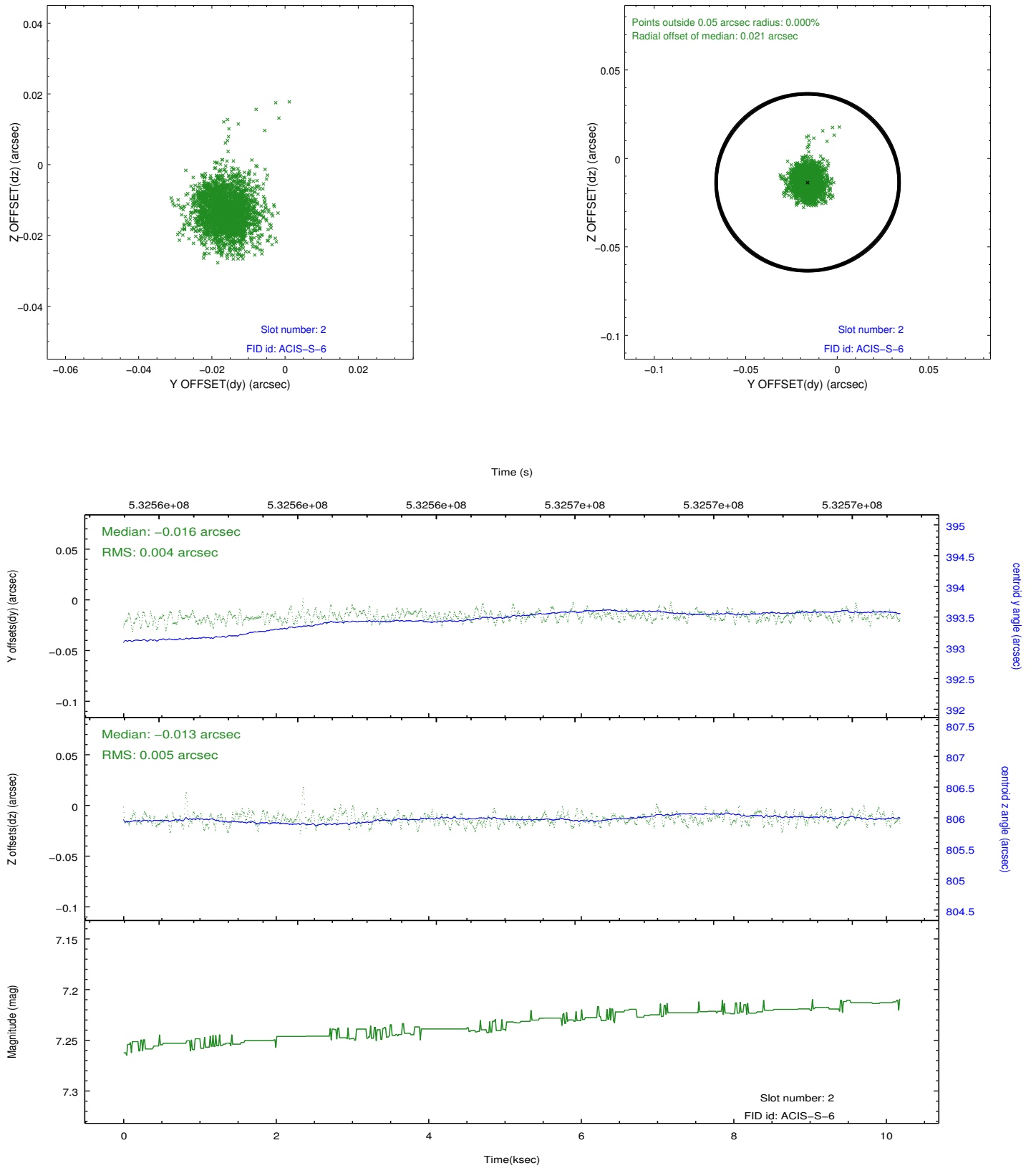
2.5.1 Slot 0



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)	2014.11.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.7729128041863

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.