

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2686 - L2 Version 3
Chandra X-Ray Center

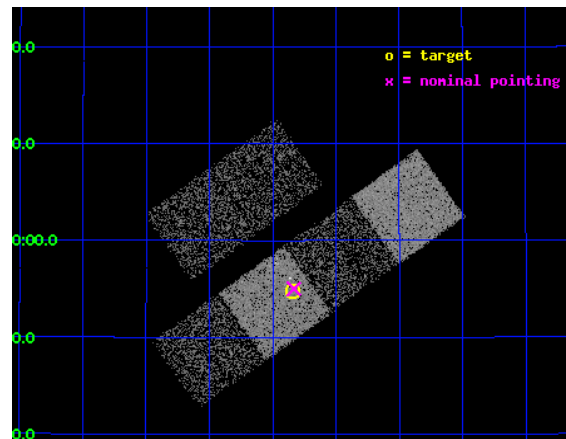
L2 Processing Date : Oct 4 2012

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1 Front

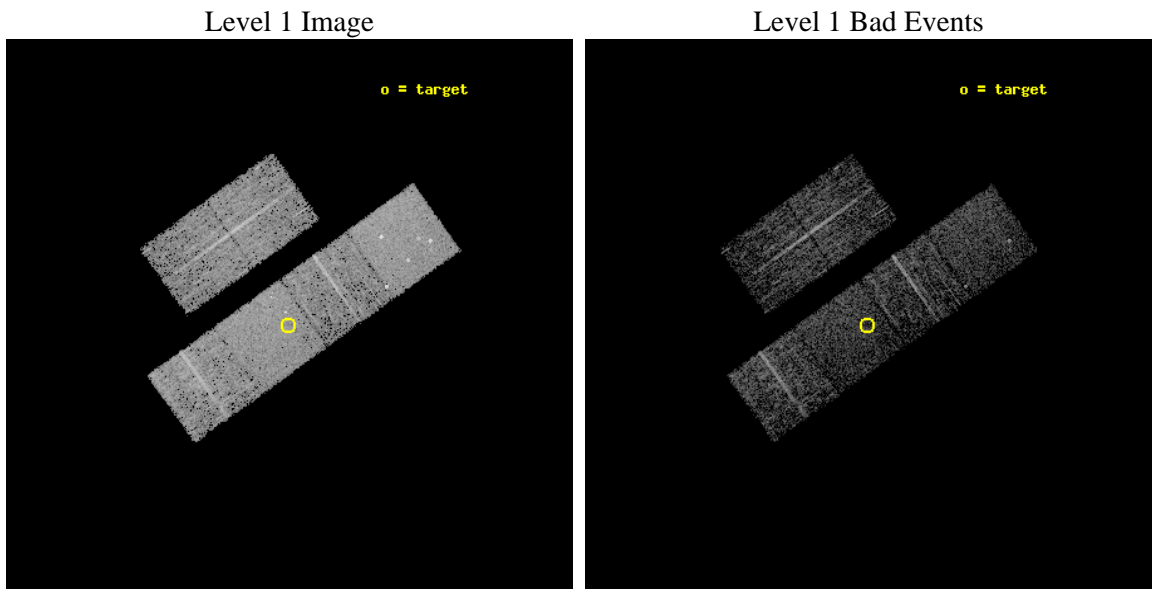
seq_num	400166	Sequence number
obs_id	2686	Observation id
title	ULTRALUMINOUS X-RAY SOURCES AND INTERMEDIATE MASS BLACK HOLES	Prop
observer	Dr. Joel Bregman	Principal investigator
object	NGC 4559	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	188.960833	Observer's specified target RA [deg]
dec_targ	27.913056	Observer's specified target Dec [deg]
ra_nom	188.95813588071	Nominal RA [deg]
dec_nom	27.916850928295	Nominal Dec [deg]
roll_nom	144.37741037179	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3000.4386065453	Sum of GTIs [s]
livetime	2962.445246262	Livetime [s]
ontime2	3000.4796465486	Sum of GTIs [s]
ontime3	3000.3154865503	Sum of GTIs [s]
ontime5	3000.397566542	Sum of GTIs [s]
ontime6	3000.3565265536	Sum of GTIs [s]
ontime7	3000.4386065453	Sum of GTIs [s]
ontime8	3000.274446547	Sum of GTIs [s]
l2events	31171	Number of level 2 events



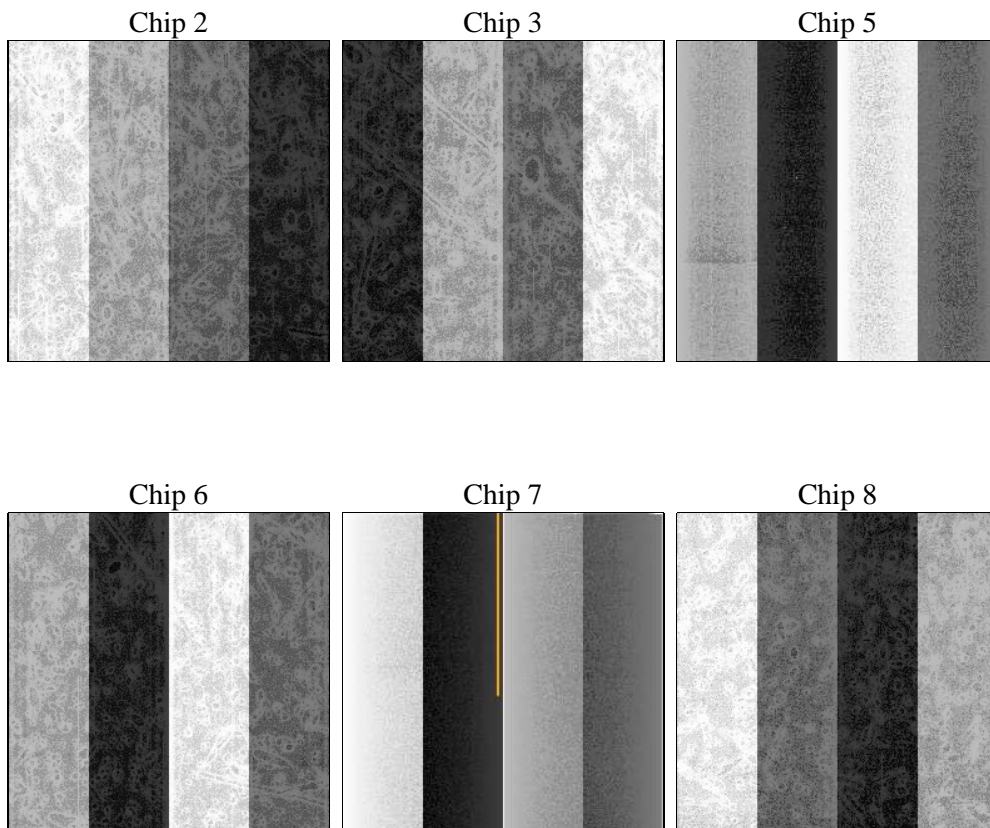
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3000.4386065453	Sum of GTIs [s]
caldsver	4.5.2	 	ontime2	3000.4796465486	Sum of GTIs [s]
date	2012-10-04T11:22:00	Date and time of file creation	ontime3	3000.3154865503	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	3000.397566542	Sum of GTIs [s]
			ontime6	3000.3565265536	Sum of GTIs [s]
			ontime7	3000.4386065453	Sum of GTIs [s]
			ontime8	3000.274446547	Sum of GTIs [s]
			l1events	141315	Number of level 1 events

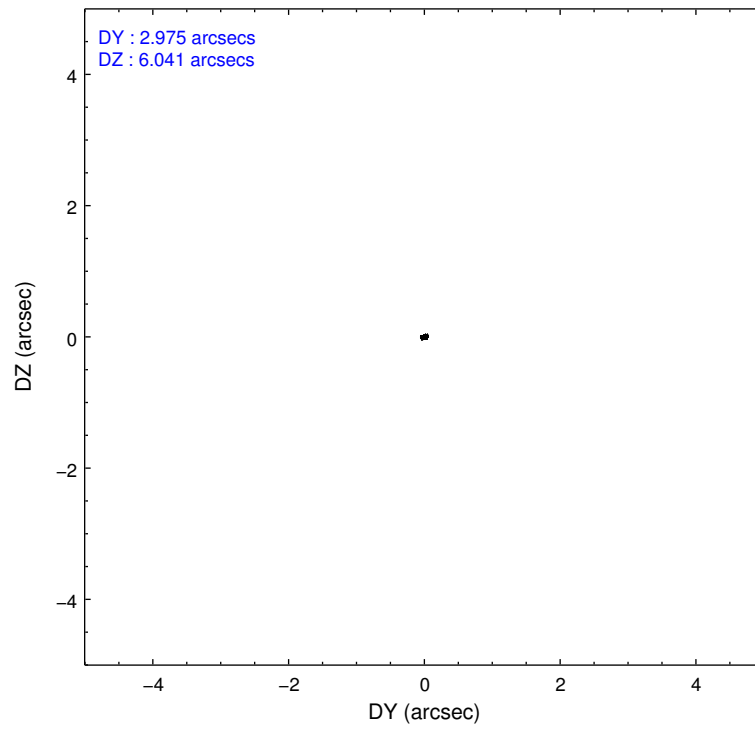
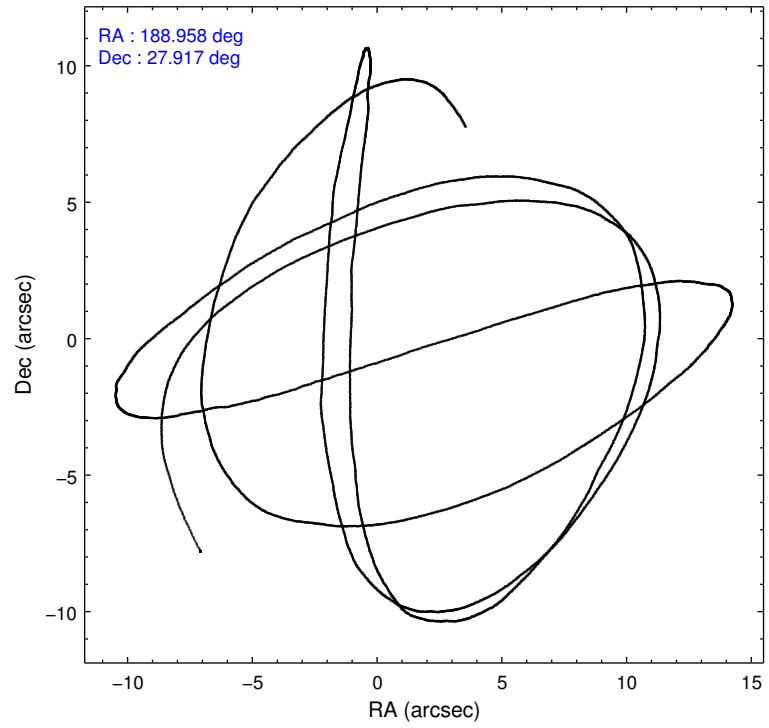
2.1.4 Events

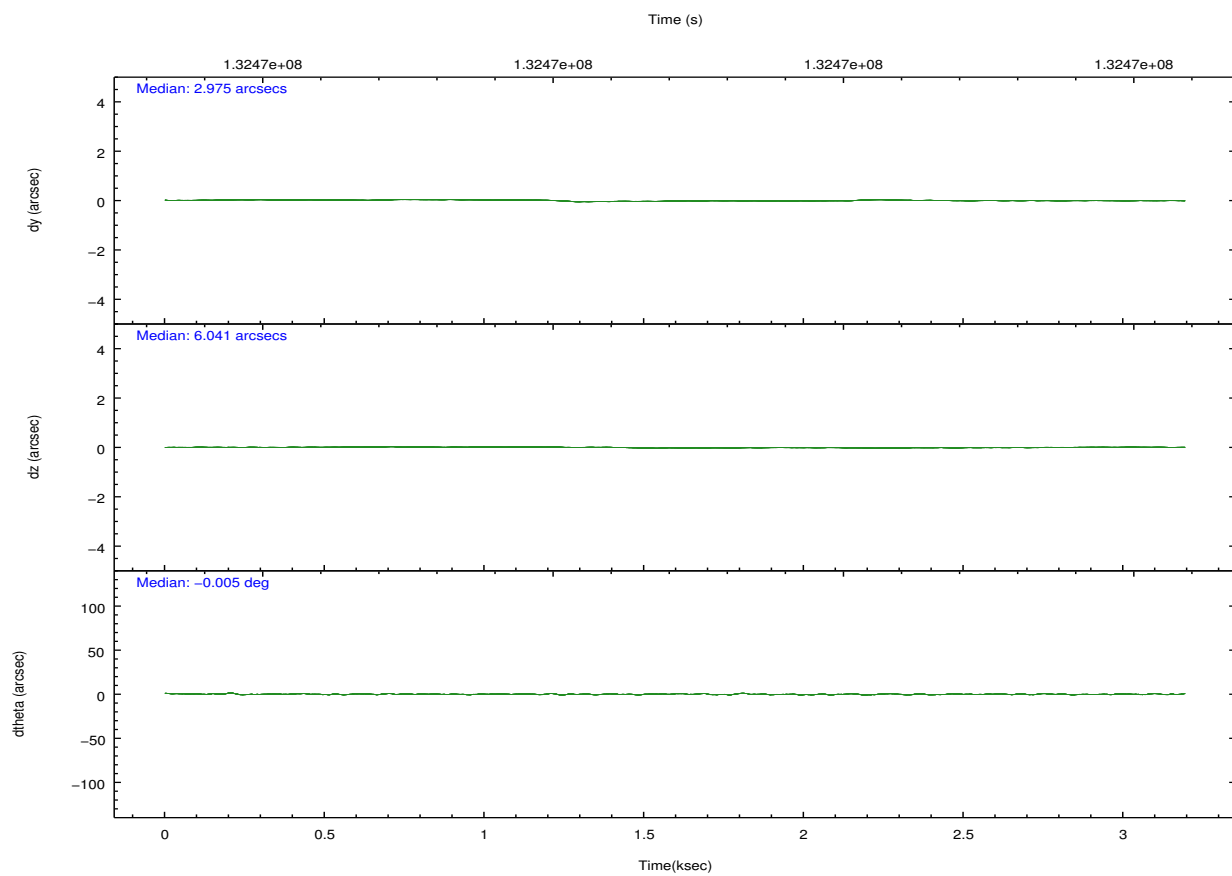
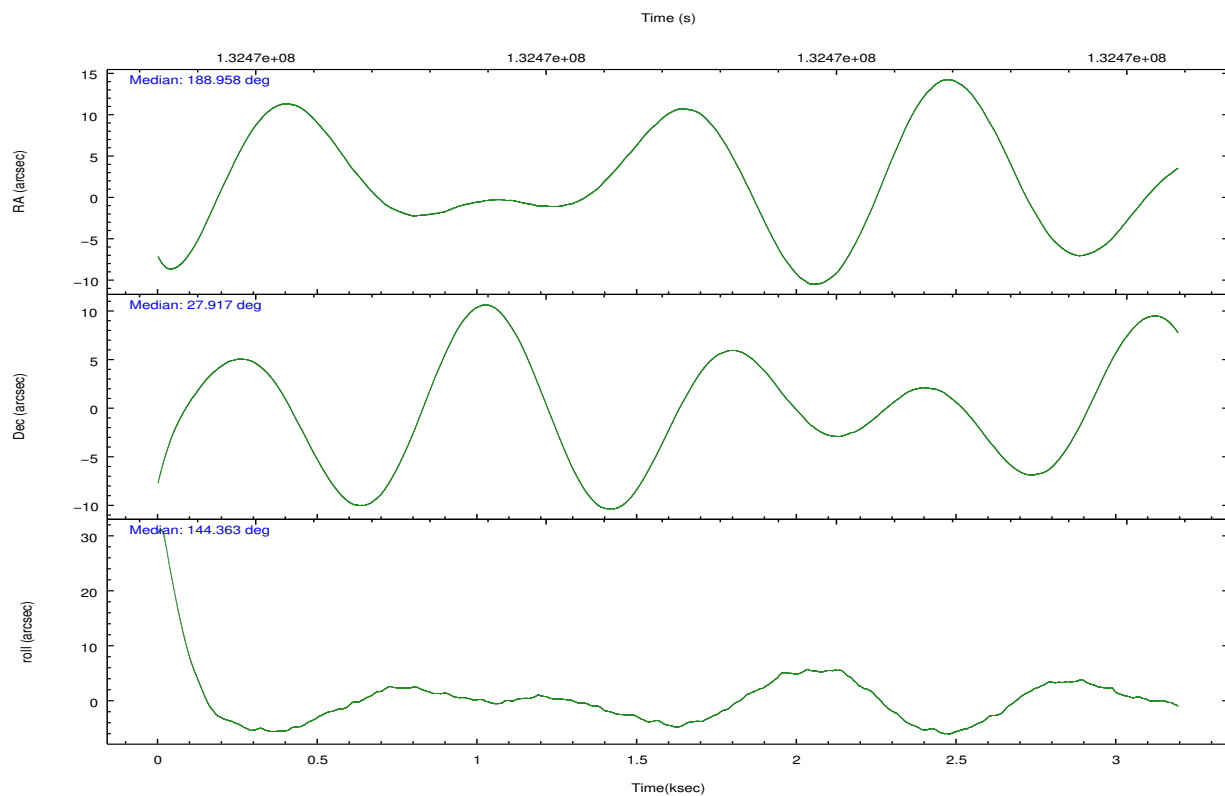
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	21475	18999	30105	19945	26097	24694	grade 0 events	916	923	2157	967	1141	1456
rejected events	19122	16794	15905	17592	15055	19888		4%	4%	7%	4%	4%	5%
rejected %	89%	88%	52%	88%	57%	80%	grade 1 events	8	13	112	9	33	28
								0%	0%	0%	0%	0%	0%
							grade 2 events	558	467	4124	476	2171	1057
								2%	2%	13%	2%	8%	4%
							grade 3 events	229	228	559	231	963	488
								1%	1%	1%	1%	3%	1%
							grade 4 events	228	200	495	222	972	439
								1%	1%	1%	1%	3%	1%
							grade 5 events	708	782	2245	923	2516	1095
								3%	4%	7%	4%	9%	4%
							grade 6 events	424	391	6882	458	5803	1369
								1%	2%	22%	2%	22%	5%
							grade 7 events	18404	15995	13531	16659	12498	18762
								85%	84%	44%	83%	47%	75%

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	188.988944	188.9581358807134	Subarray requested	NONE	NONE
[deg] Pointing Dec	27.914465	27.91685092829483	Alternating exposures requested	N	N
[deg] Pointing Roll	144.206264	144.377410371789	[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)	132471019.184000	132470039.72599			
Observation start date	2002-03-14T05:29:15	2002-03-14T05:13:59			
[s] Observation end time (MET)	132474019.184000	132474859.78868			
Observation end date	2002-03-14T06:19:15	2002-03-14T06:34:19			
Read mode	TIMED	TIMED			

2.3 Aspect



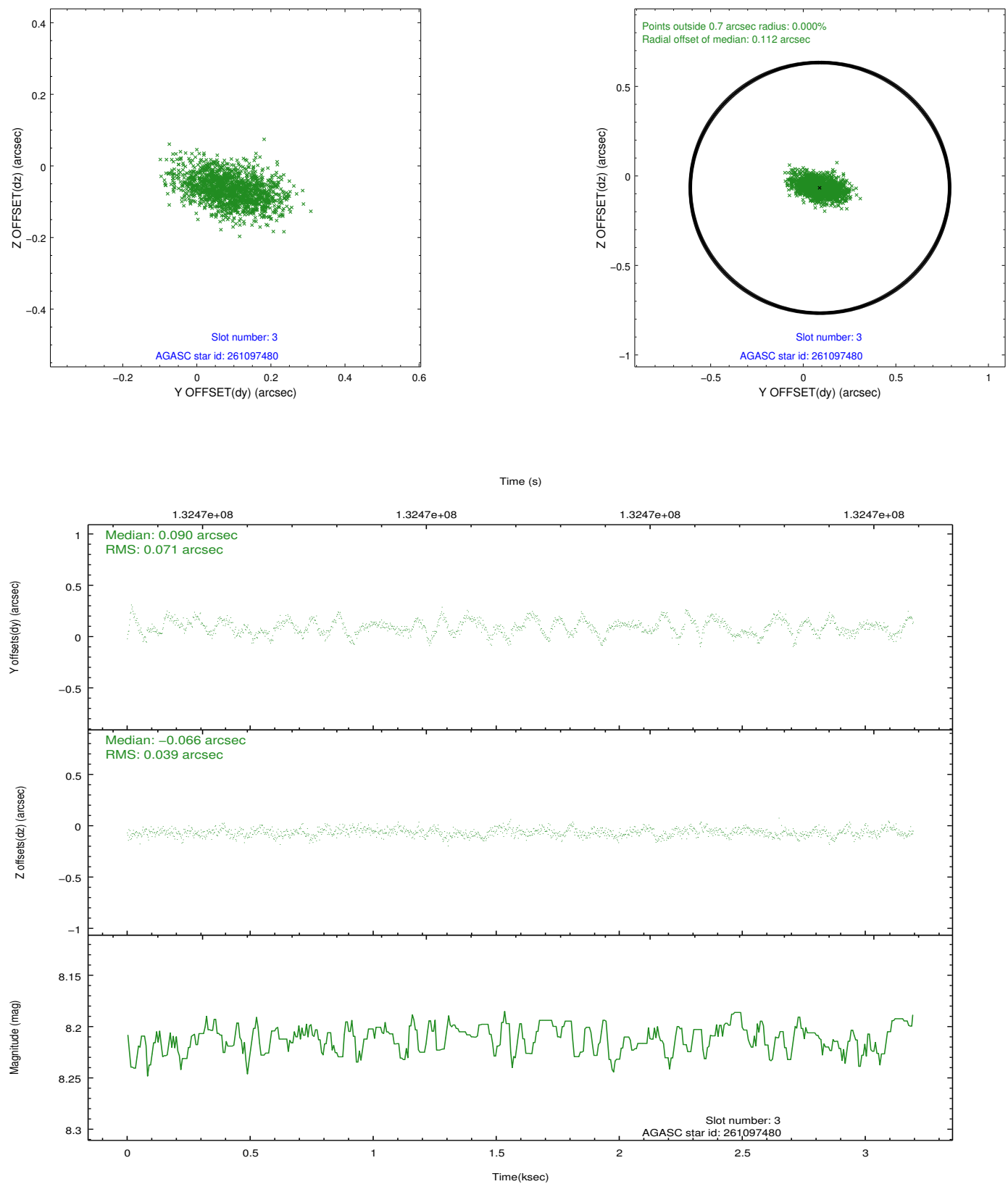


Slot Statistics

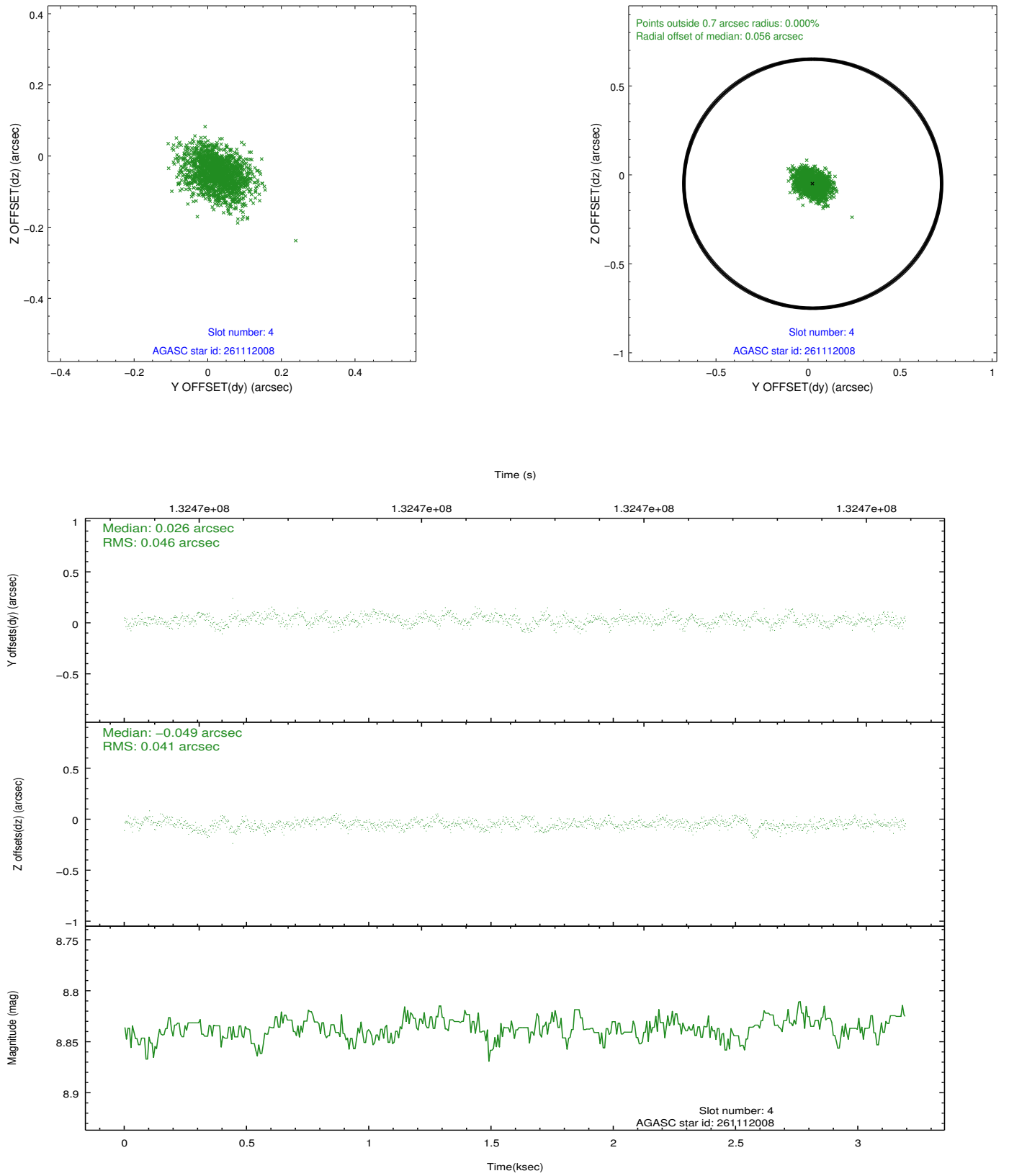
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	778	-0.034	0.008	0.007	0.011	0.000000	0.000000	-755.61	-1727.14
1	FID	ACIS-S-4	7.21	779	-0.014	0.014	0.006	0.010	0.000000	0.000000	2156.74	179.37
2	FID	ACIS-S-5	7.24	779	0.018	-0.014	0.007	0.012	0.000000	0.000000	-1805.88	175.18
3	GUIDE	261097480	8.21	1559	0.090	-0.066	0.084	0.149	188.866651	28.837468	2257.15	-2468.84
4	GUIDE	261112008	8.84	1559	0.026	-0.049	0.066	0.109	188.403981	28.081490	1862.86	594.73
5	GUIDE	261097656	9.13	1557	0.010	-0.042	0.092	0.143	188.726234	27.455627	-283.92	1830.80
6	GUIDE	261101336	9.31	1559	-0.022	0.076	0.080	0.129	188.594392	28.320780	1870.78	-454.43
7	GUIDE	261105480	9.37	1557	-0.103	0.083	0.084	0.137	188.978850	28.694918	1671.07	-2259.63

2.4 Star Slots

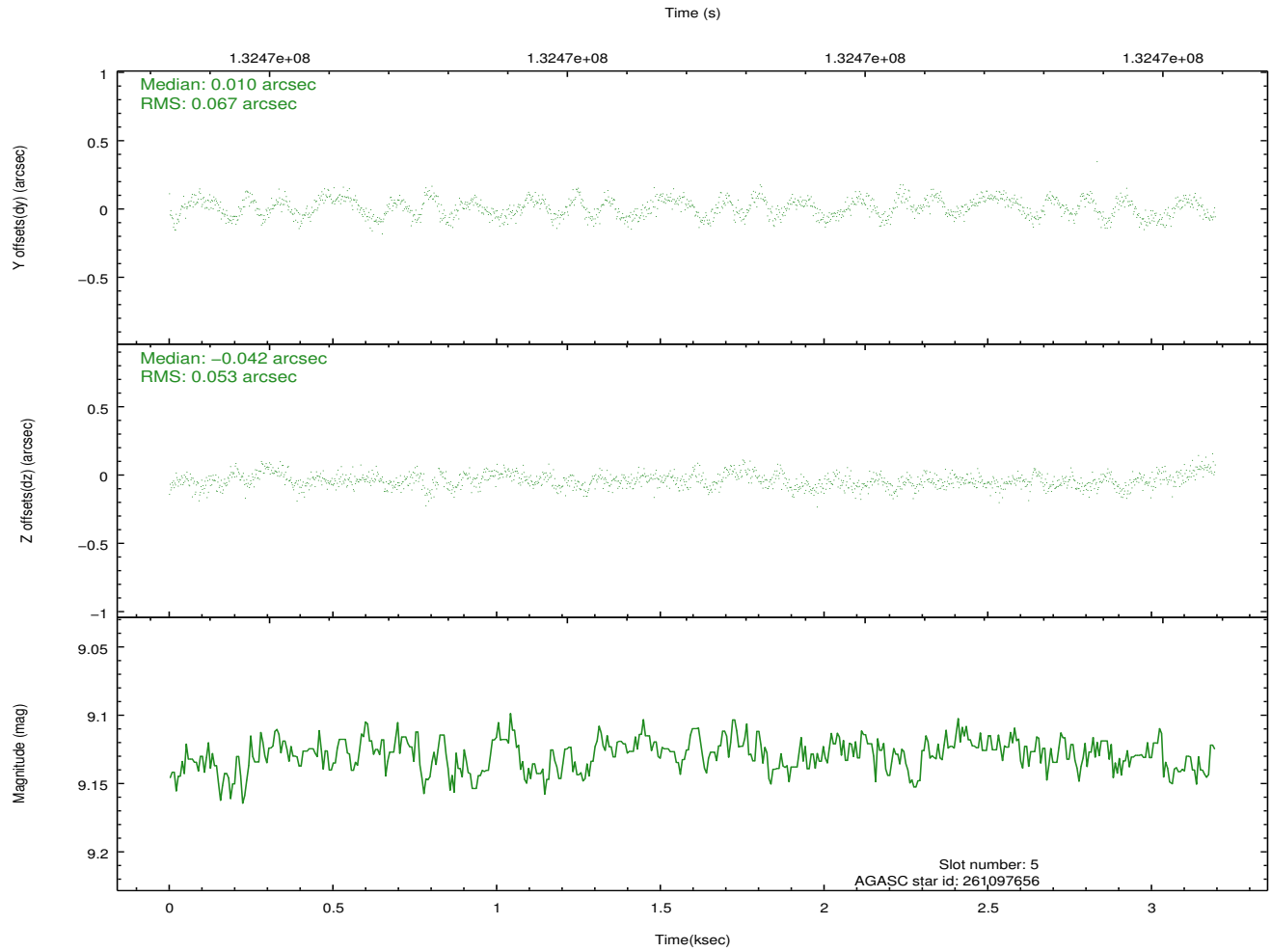
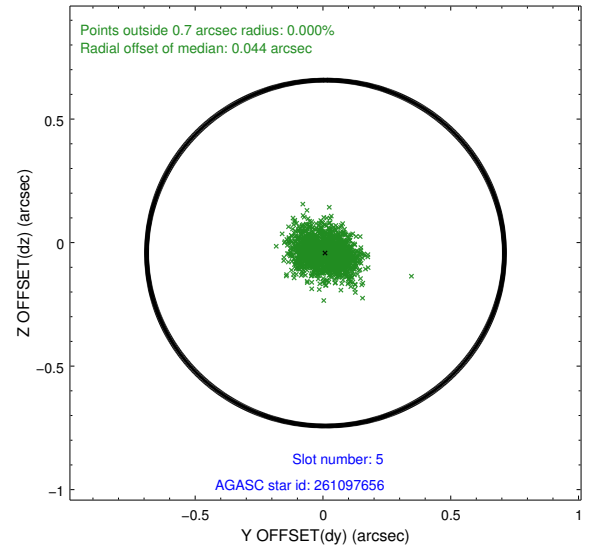
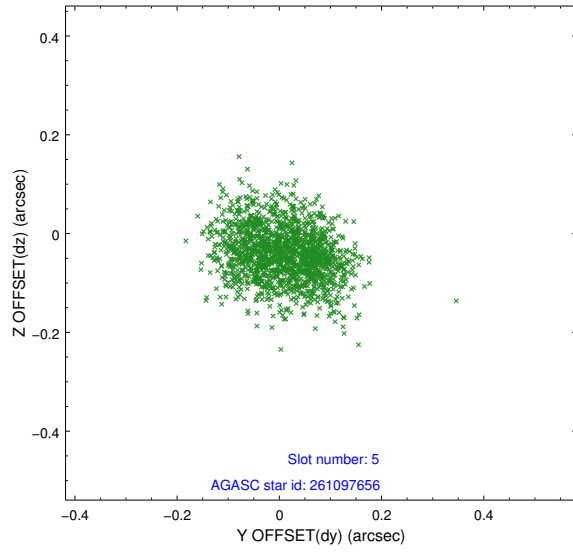
2.4.1 Slot 3



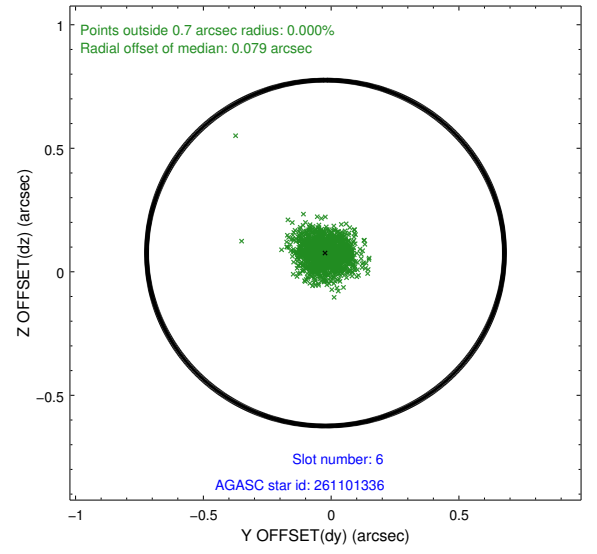
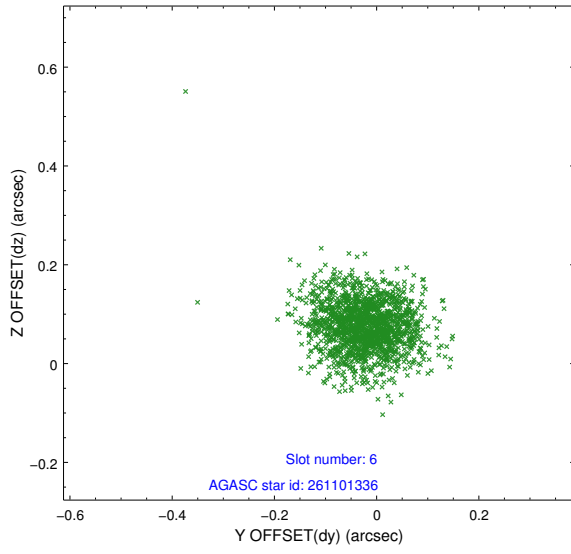
2.4.2 Slot 4



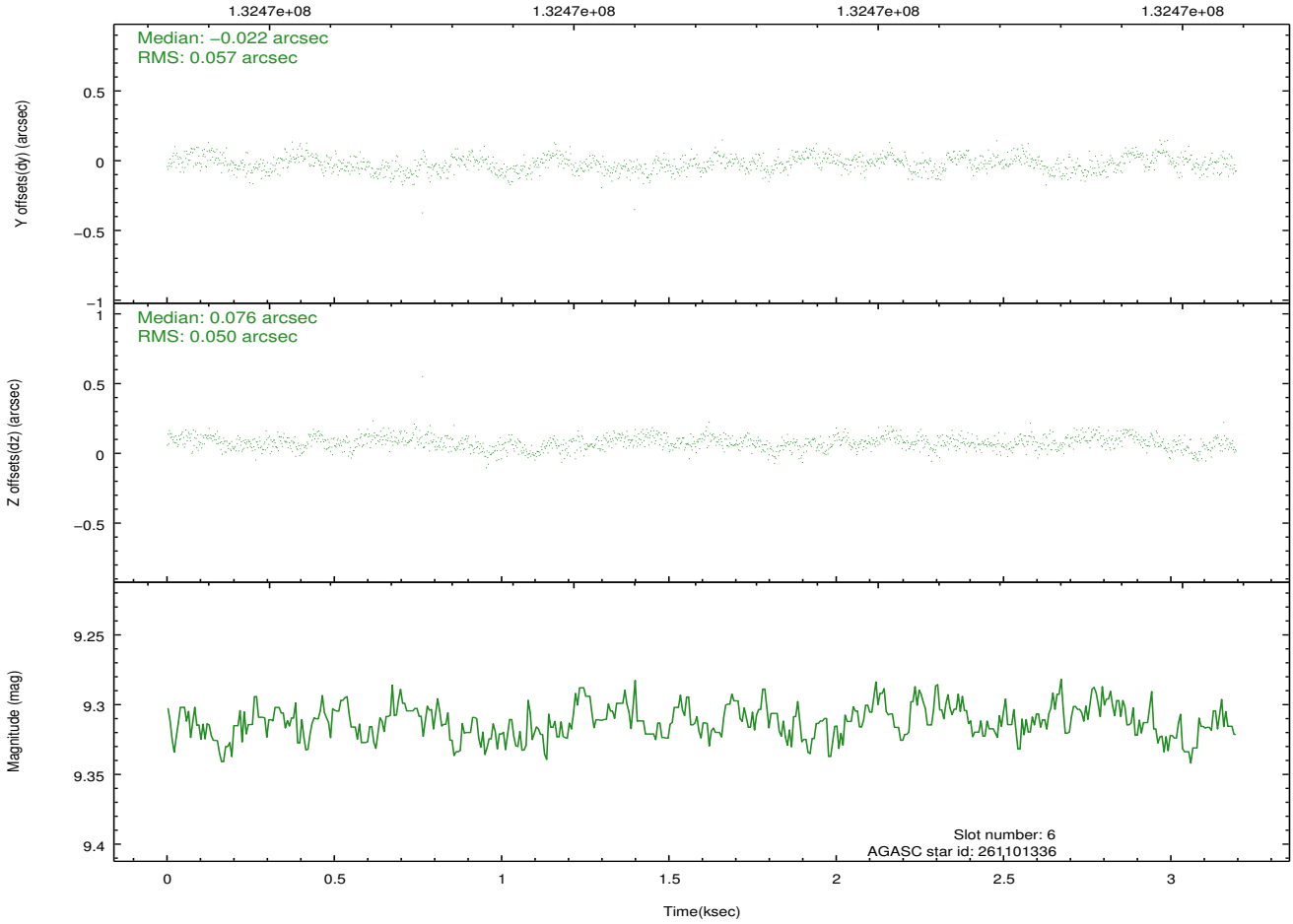
2.4.3 Slot 5



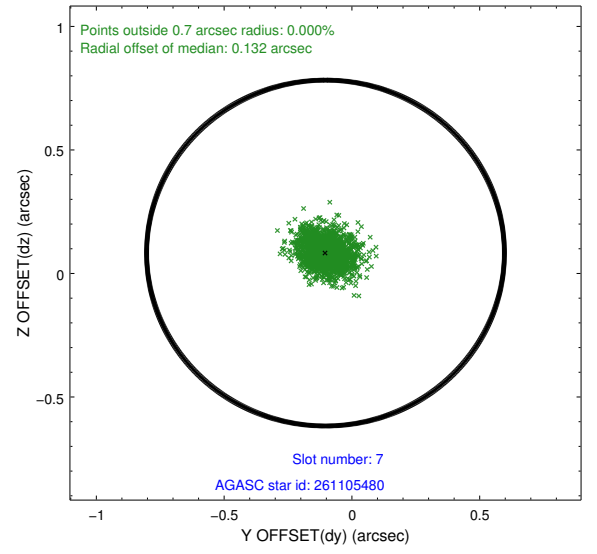
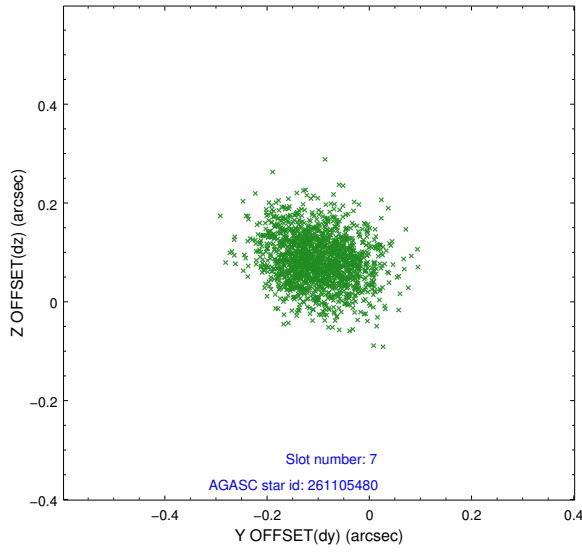
2.4.4 Slot 6



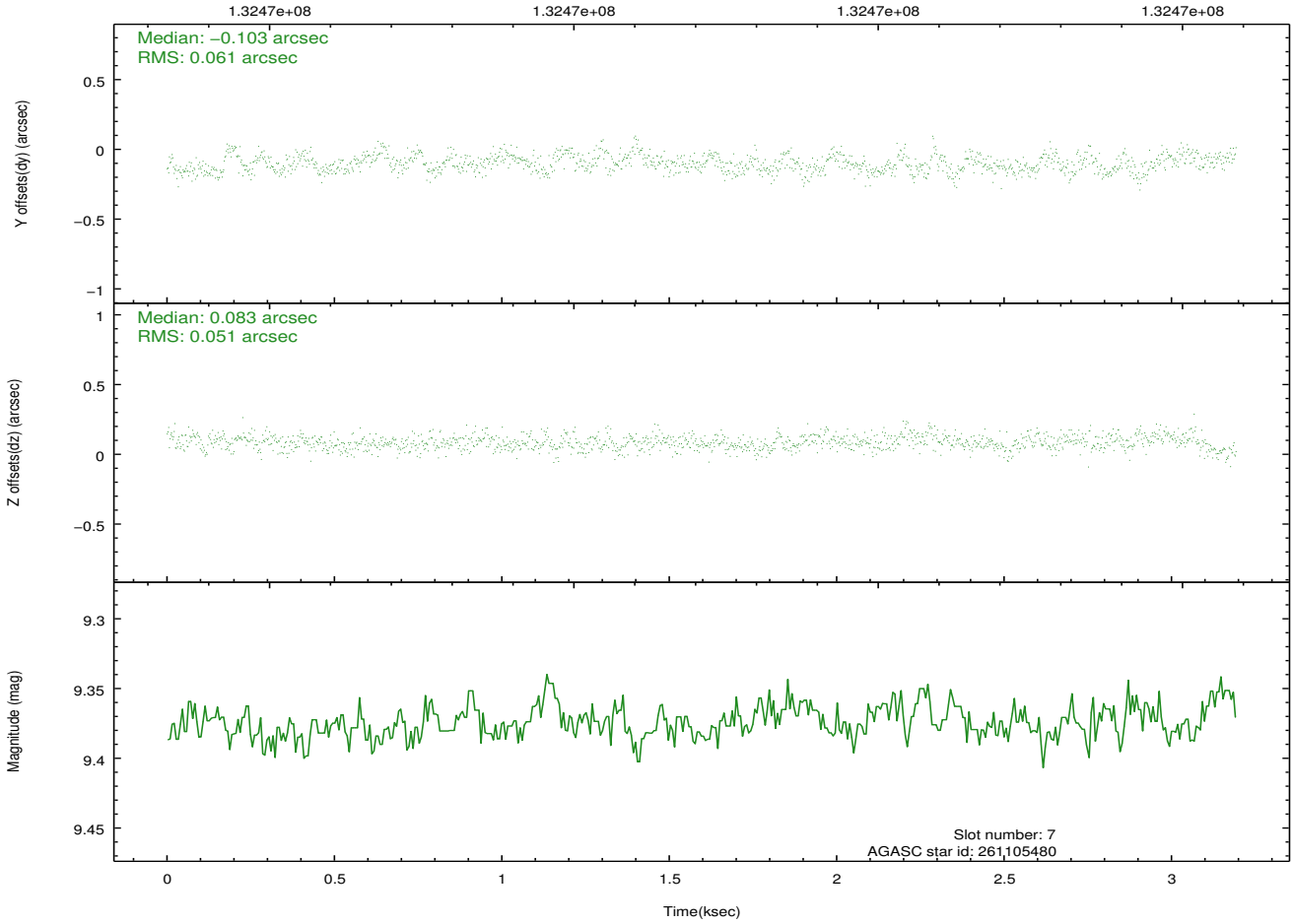
Time (s)



2.4.5 Slot 7

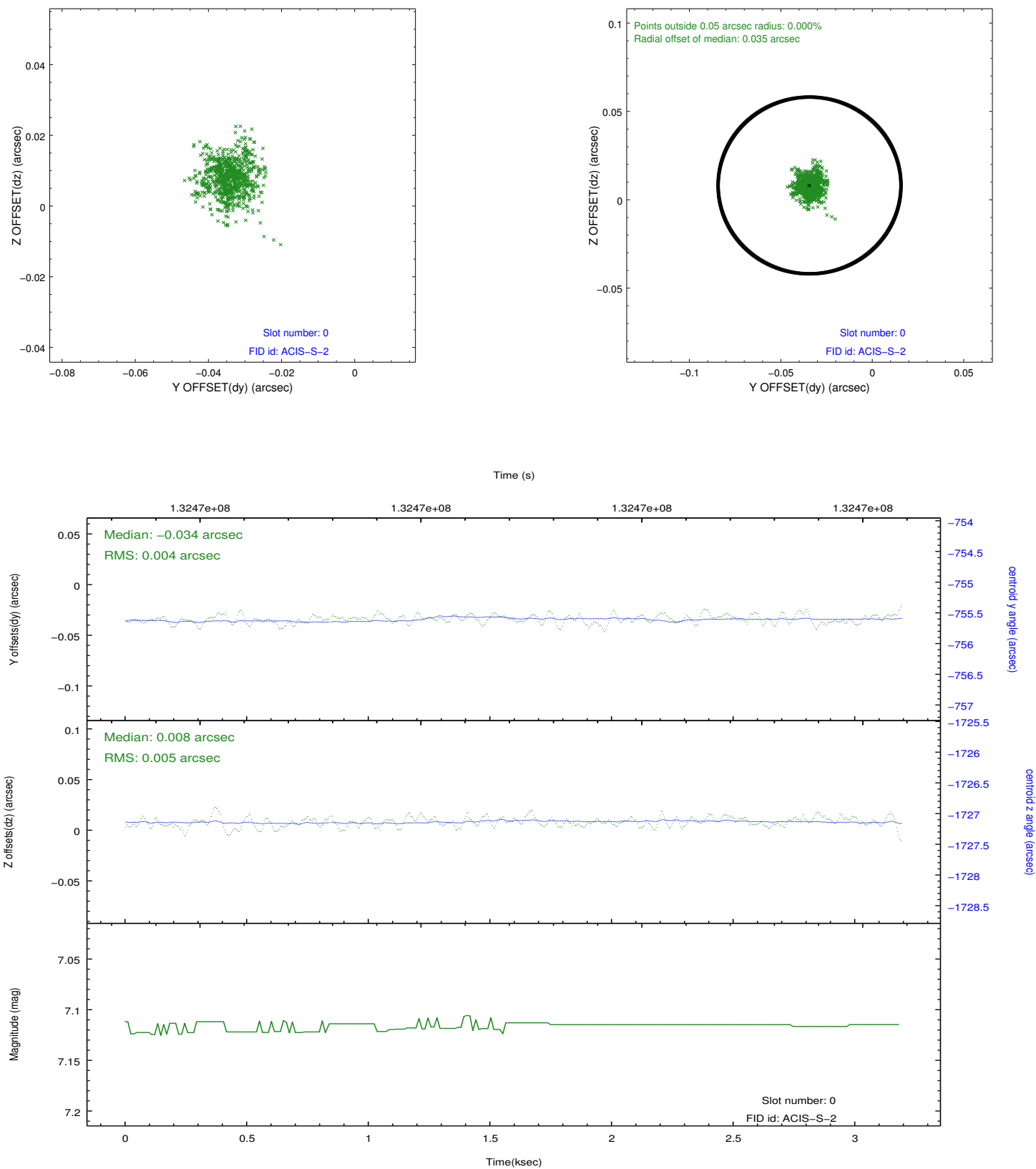


Time (s)

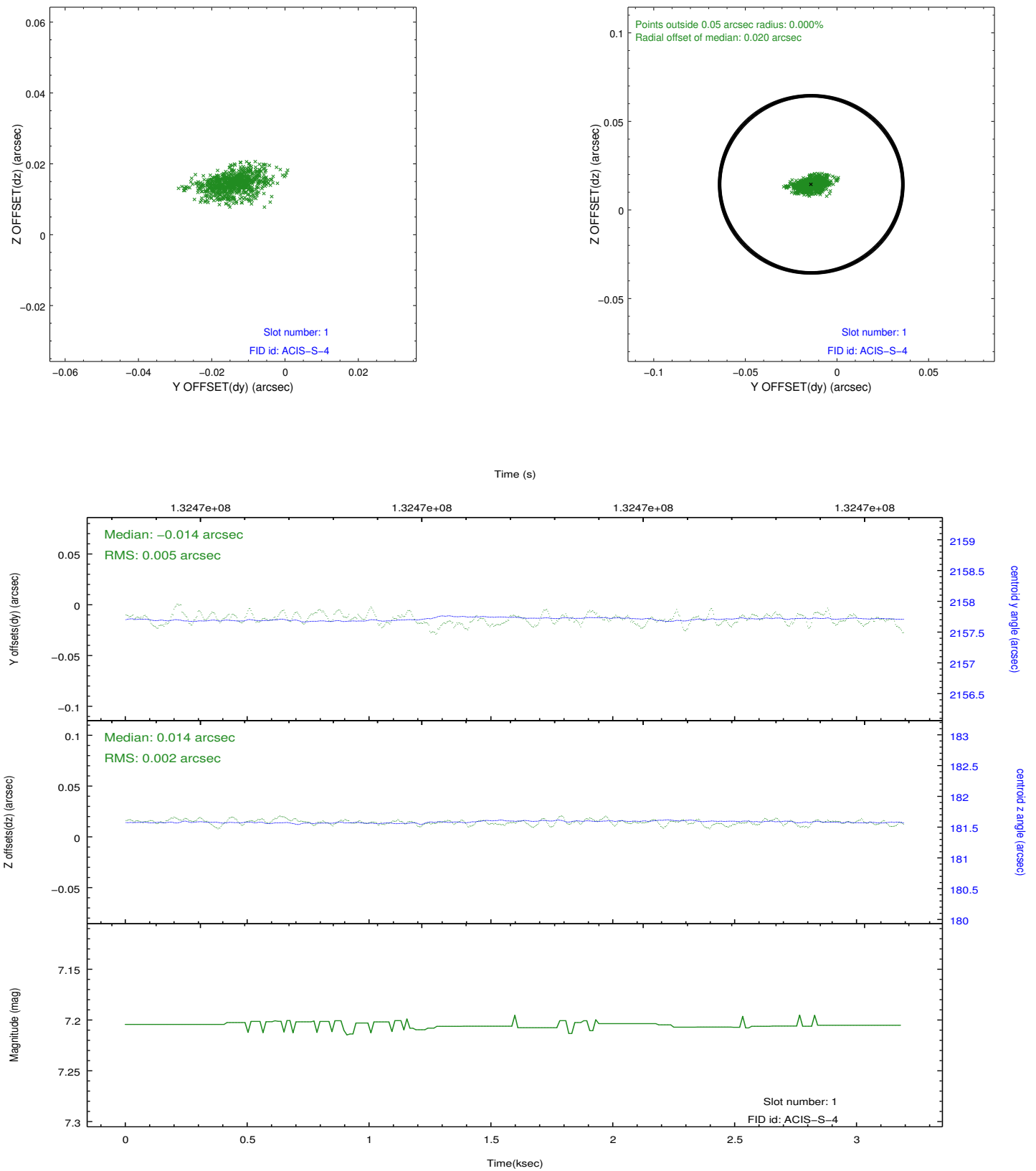


2.5 FID Slots

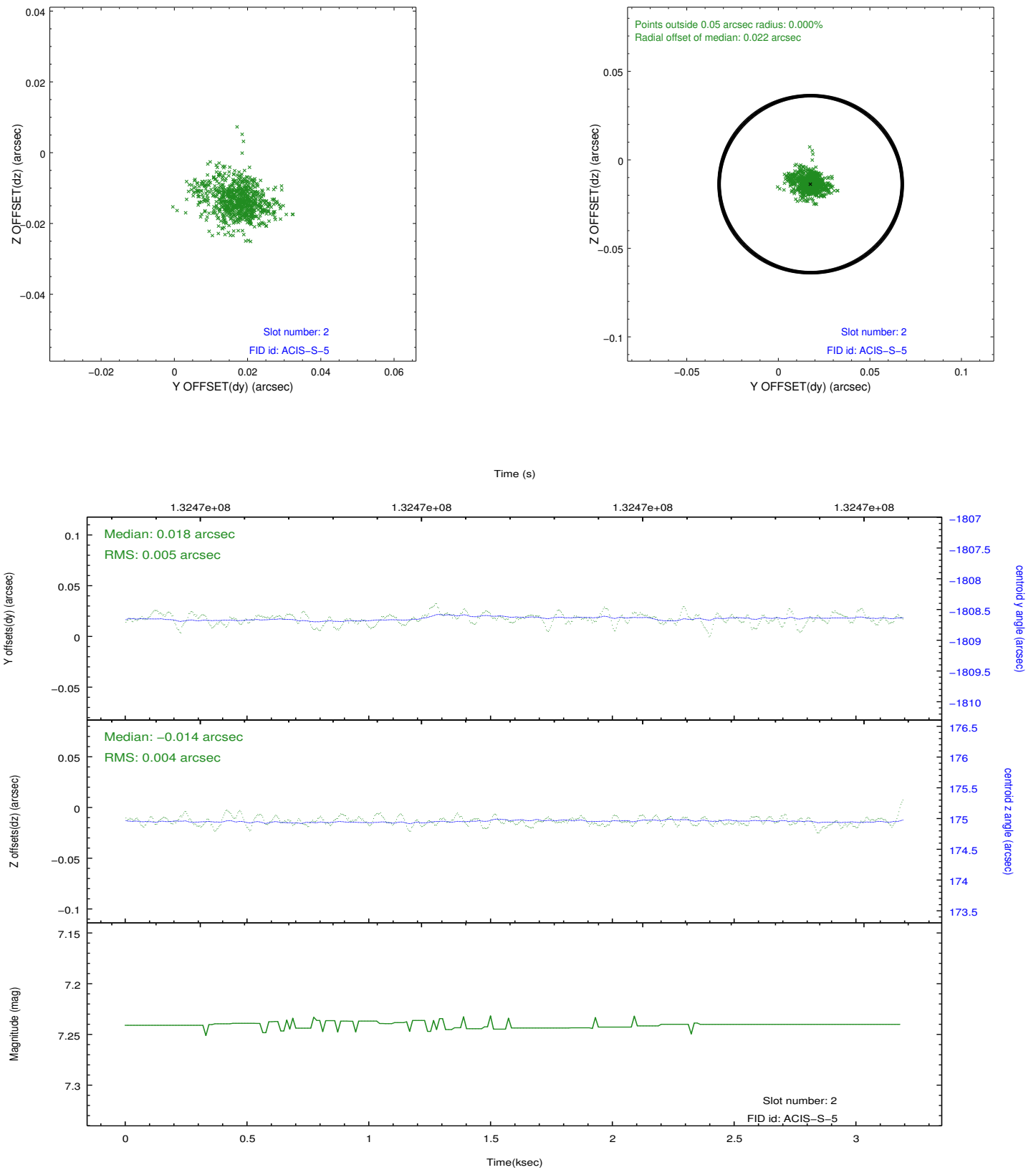
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.001

A.2 Comments

Joint proposal with HST.