

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2927 - L2 Version 3
Chandra X-Ray Center

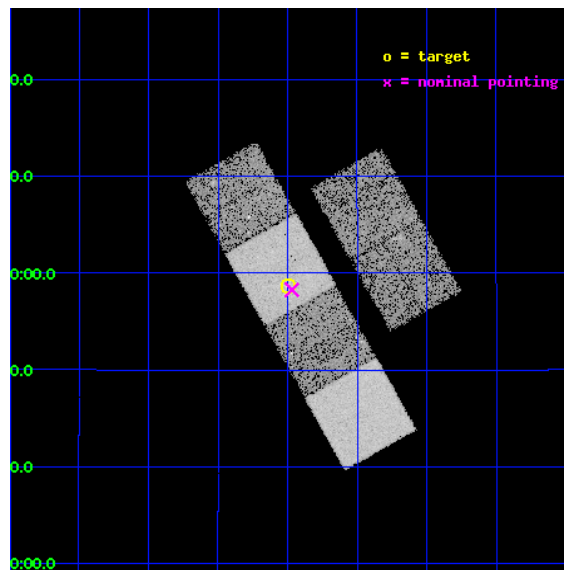
L2 Processing Date : Oct 8 2012

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1 Front

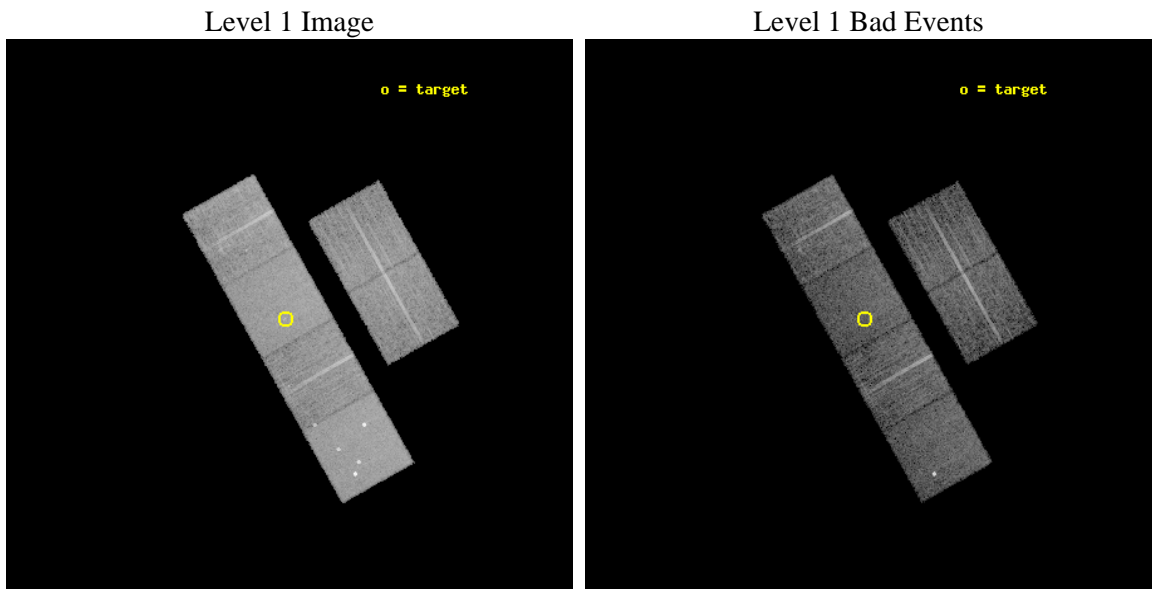
seq_num	600264	Sequence number
obs_id	2927	Observation id
title	CHANDRA SURVEY OF GALAXIES WITH KNOWN BLACK HOLE MASSES	Proposal t
observer	Dr. Andrew Ptak	Principal investigator
object	NGC 4459	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.24875	Observer's specified target RA [deg]
dec_targ	13.978889	Observer's specified target Dec [deg]
ra_nom	187.24234463889	Nominal RA [deg]
dec_nom	13.971357192518	Nominal Dec [deg]
roll_nom	240.60842144769	Nominal Roll [deg]
revision	3	Processing version of data
ontime	9960.9986048043	Sum of GTIs [s]
livetime	9834.866442677	Livetime [s]
ontime2	9961.0396448076	Sum of GTIs [s]
ontime3	9960.8754847944	Sum of GTIs [s]
ontime5	9960.957564801	Sum of GTIs [s]
ontime6	9960.9165247977	Sum of GTIs [s]
ontime7	9960.9986048043	Sum of GTIs [s]
ontime8	9960.8344448209	Sum of GTIs [s]
l2events	106317	Number of level 2 events



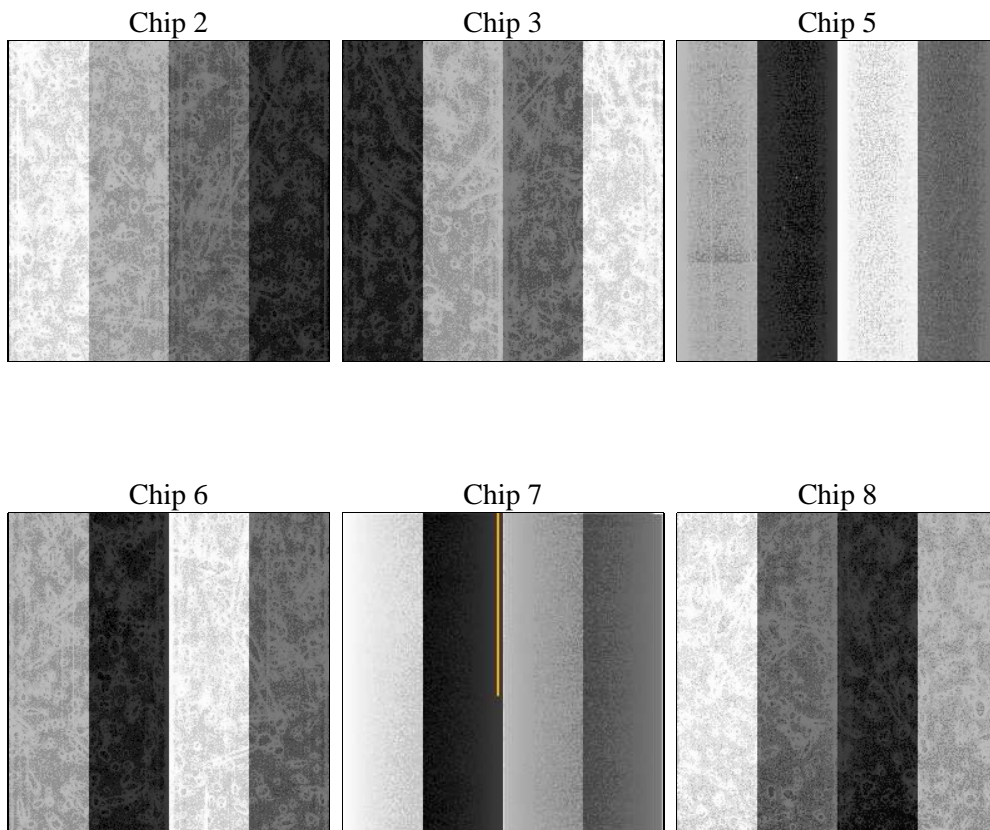
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	9960.9986048043	Sum of GTIs [s]
caldbver	4.5.2	 	ontime2	9961.0396448076	Sum of GTIs [s]
date	2012-10-08T08:00:44	Date and time of file creation	ontime3	9960.8754847944	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	9960.957564801	Sum of GTIs [s]
			ontime6	9960.9165247977	Sum of GTIs [s]
			ontime7	9960.9986048043	Sum of GTIs [s]
			ontime8	9960.8344448209	Sum of GTIs [s]
			l1events	459654	Number of level 1 events

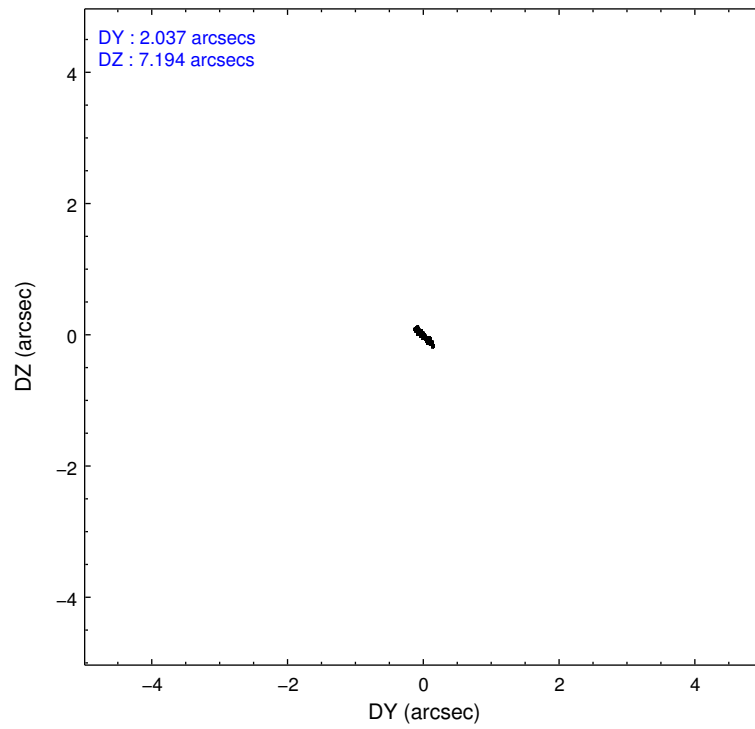
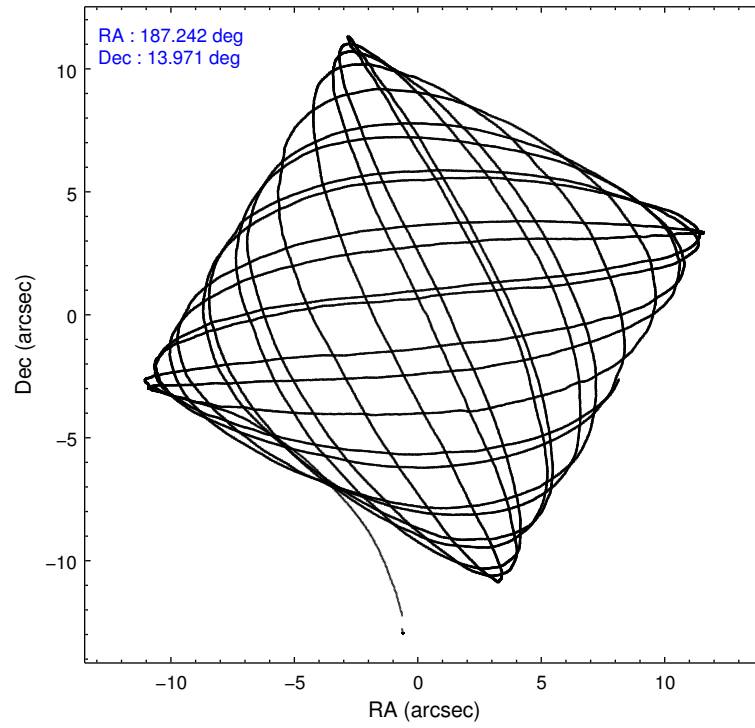
2.1.4 Events

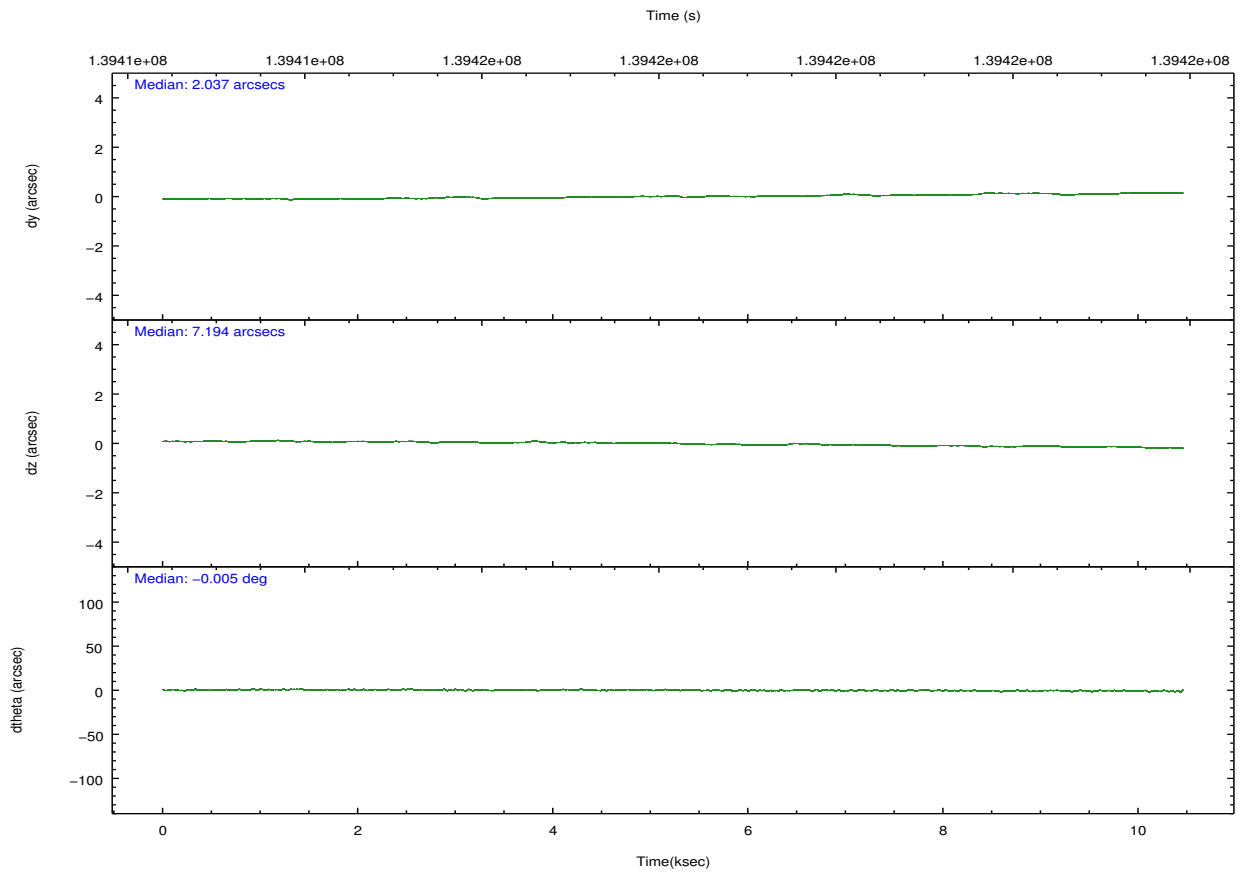
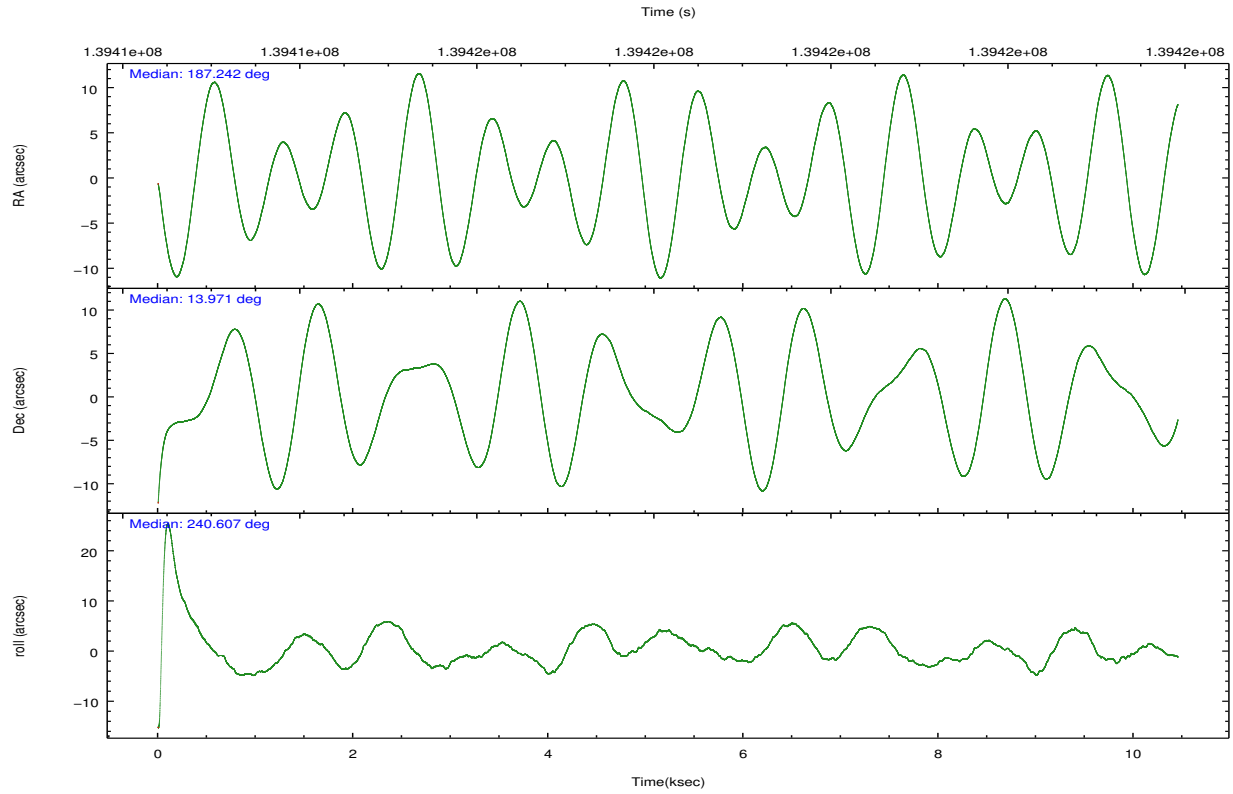
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	62760	63549	99895	66713	85440	81297	grade 0 events	3897	3619	9044	4221	3954	6076
rejected events	54493	55650	51397	57863	48867	63741		6%	5%	9%	6%	4%	7%
rejected %	86%	87%	51%	86%	57%	78%	grade 1 events	31	22	554	33	63	55
								0%	0%	0%	0%	0%	0%
							grade 2 events	1652	1499	13612	1673	7286	3652
								2%	2%	13%	2%	8%	4%
							grade 3 events	689	695	1940	775	3316	1834
								1%	1%	1%	1%	3%	2%
							grade 4 events	664	746	1860	741	3445	1756
								1%	1%	1%	1%	4%	2%
							grade 5 events	2283	2495	7203	2776	7967	3443
								3%	3%	7%	4%	9%	4%
							grade 6 events	1370	1347	22069	1444	18591	4247
								2%	2%	22%	2%	21%	5%
							grade 7 events	52174	53126	43613	55050	40818	60234
								83%	83%	43%	82%	47%	74%

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	187.241739	187.2423446388922	Subarray requested	NONE	NONE
[deg] Pointing Dec	13.998647	13.97135719251838	Alternating exposures requested	N	N
[deg] Pointing Roll	240.451994	240.6084214476944	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	139413389.184000	139412291.20843			
Observation start date	2002-06-02T13:55:25	2002-06-02T13:38:11			
[s] Observation end time (MET)	139423389.184000	139424032.58391			
Observation end date	2002-06-02T16:42:05	2002-06-02T16:53:52			
Read mode	TIMED	TIMED			

2.3 Aspect



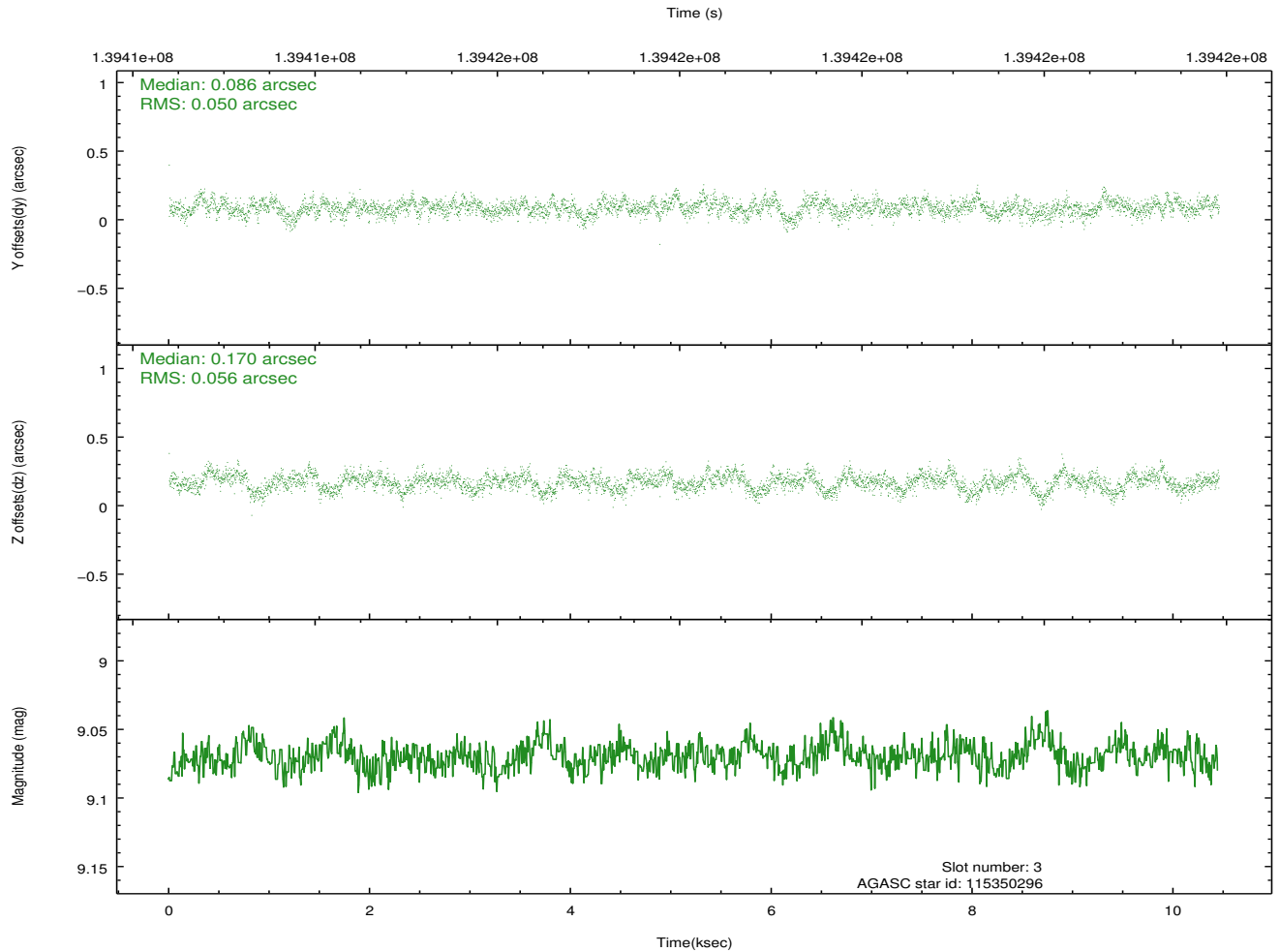
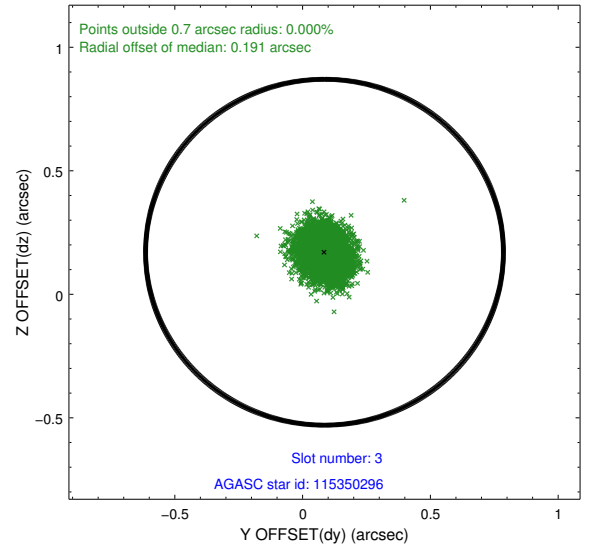
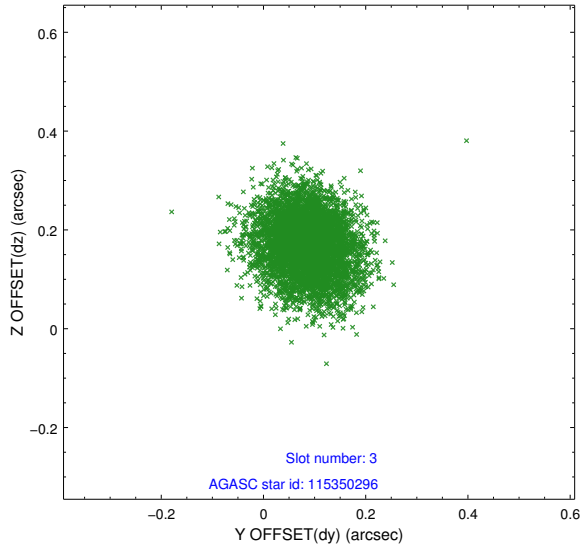


Slot Statistics

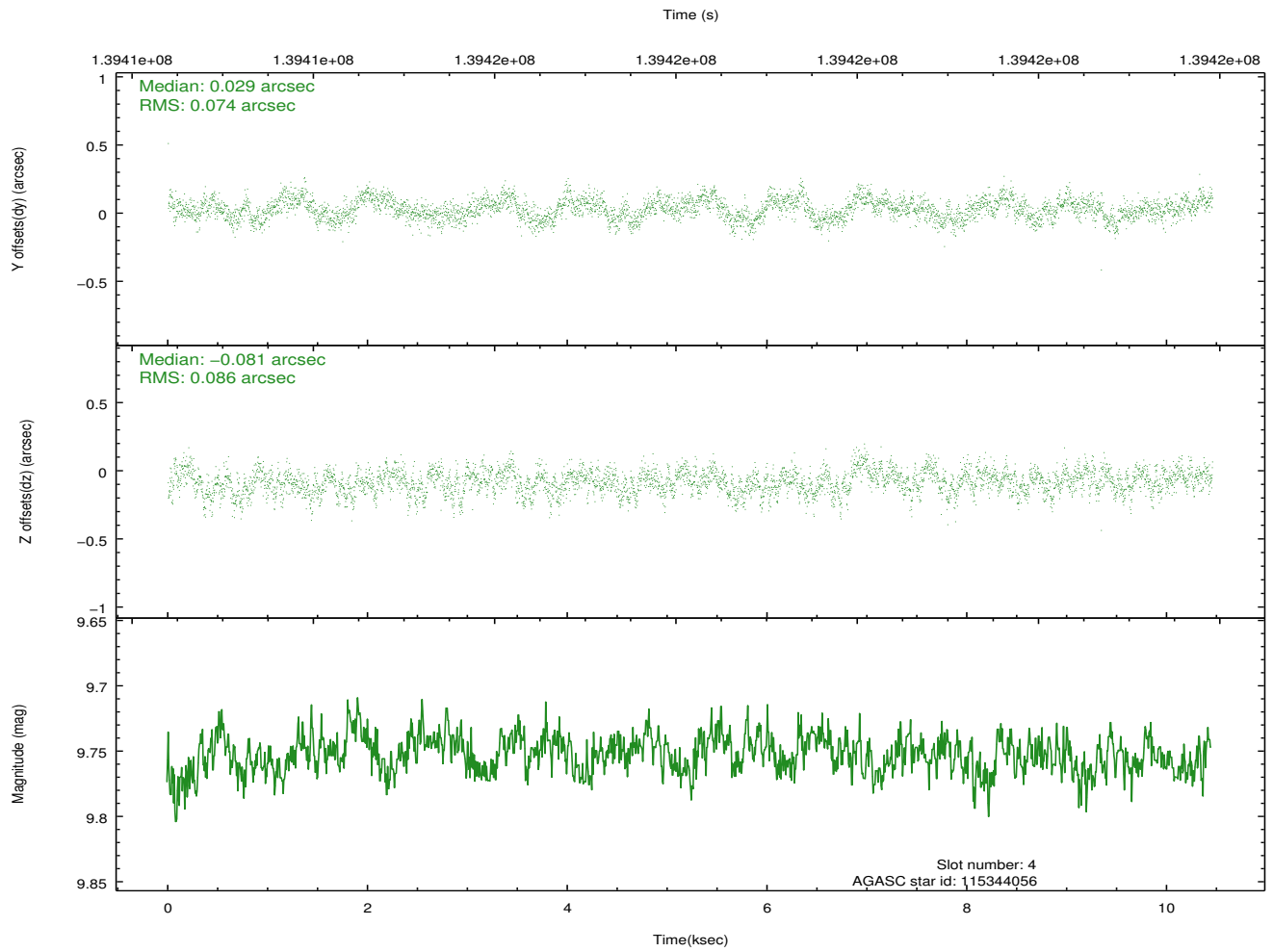
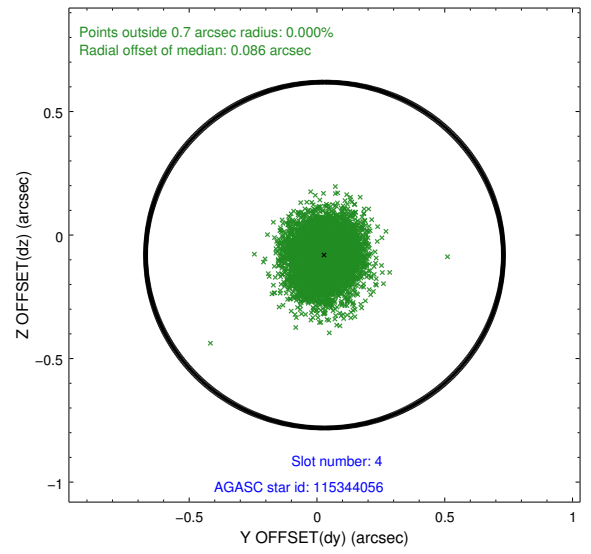
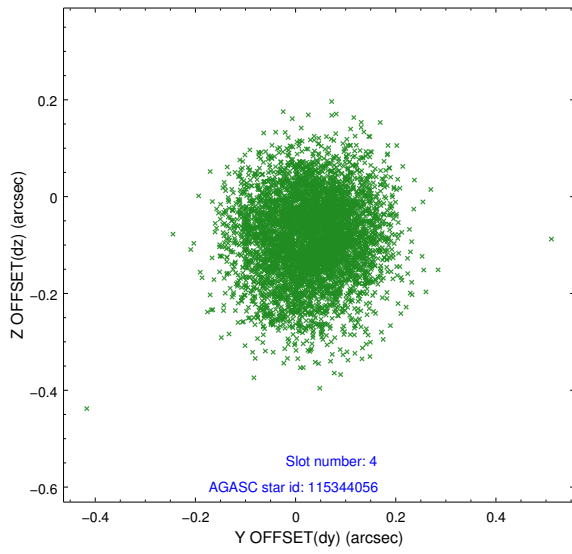
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	2551	0.024	-0.041	0.007	0.012	0.000000	0.000000	941.37	-1724.03
1	FID	ACIS-S-5	7.24	2551	0.009	0.033	0.006	0.010	0.000000	0.000000	-1807.32	173.13
2	FID	ACIS-S-6	7.35	2551	-0.054	0.019	0.008	0.014	0.000000	0.000000	406.36	817.61
3	GUIDE	115350296	9.07	5098	0.086	0.170	0.080	0.129	187.140806	13.950701	322.93	-220.41
4	GUIDE	115344056	9.75	5087	0.029	-0.081	0.122	0.193	186.832724	14.436924	-671.52	-2018.24
5	GUIDE	115344368	10.28	5100	0.076	-0.125	0.151	0.237	187.412928	14.132996	-716.89	281.86
6	GUIDE	115349328	8.74	5100	0.008	-0.019	0.066	0.108	186.721628	14.043786	751.51	-1660.14
7	GUIDE	115343984	6.99	5100	-0.198	0.060	0.061	0.101	187.445111	14.650185	-2391.25	-539.96

2.4 Star Slots

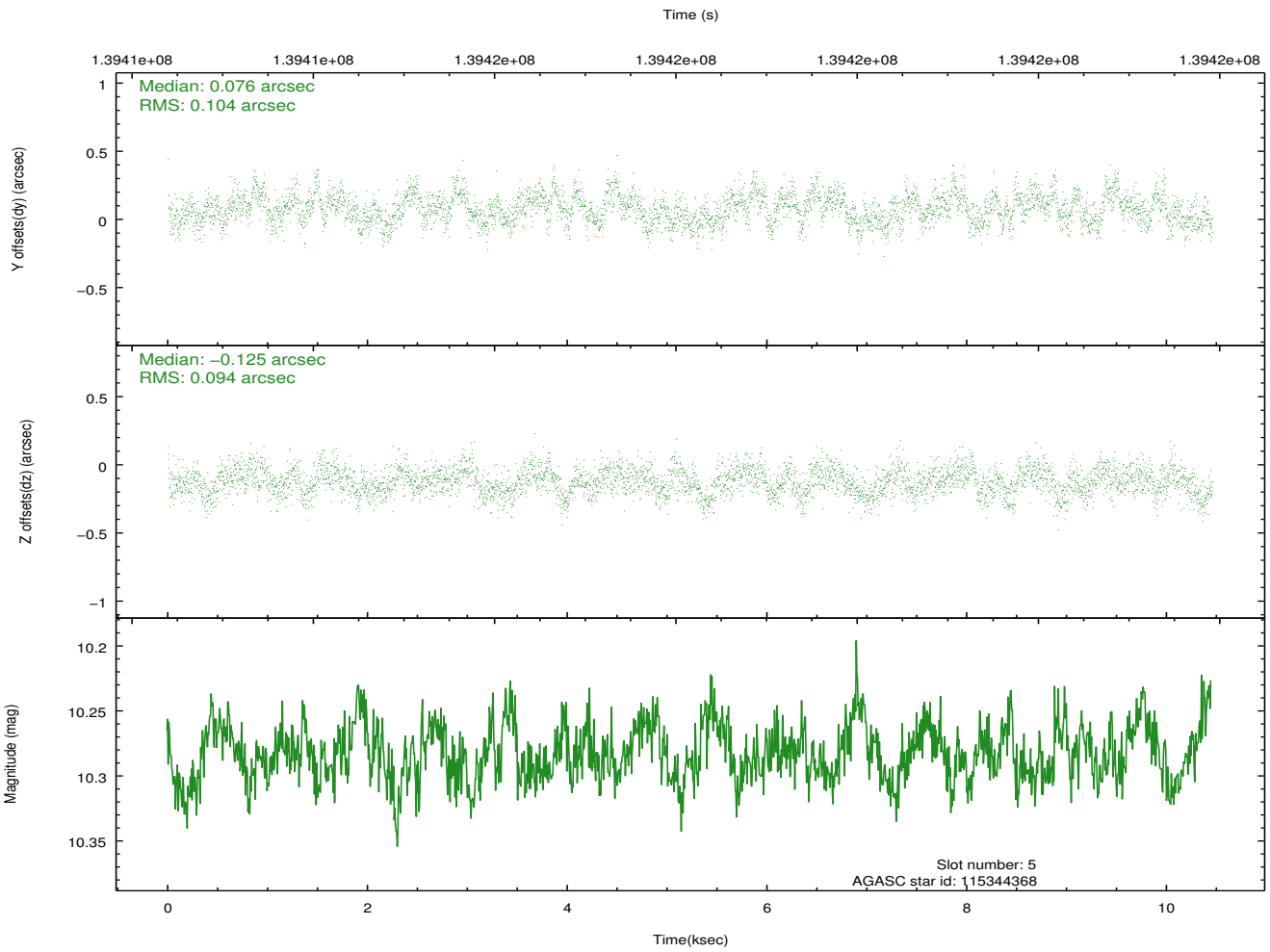
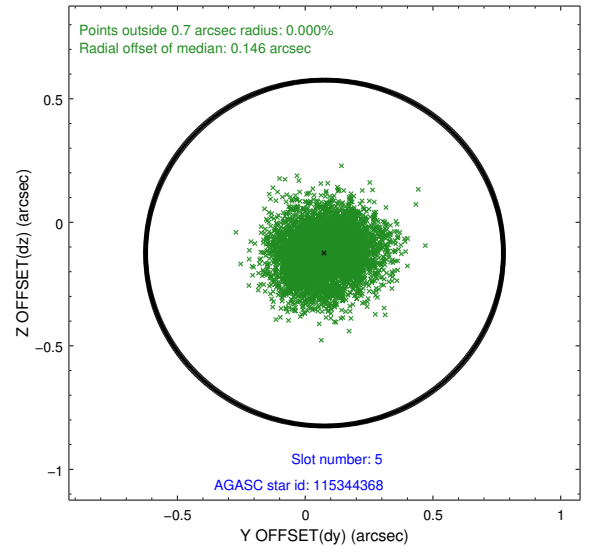
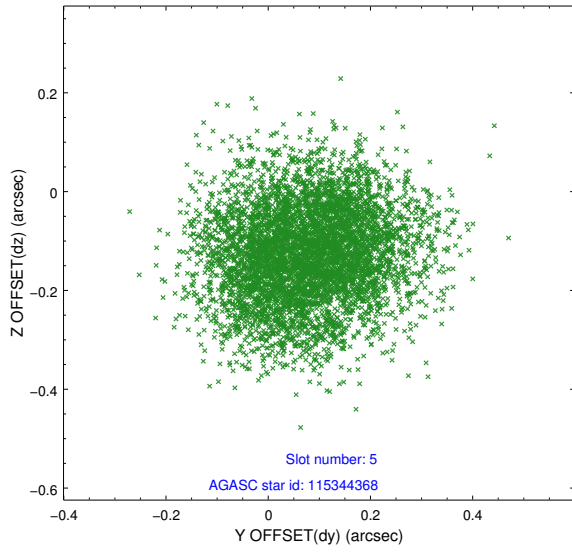
2.4.1 Slot 3



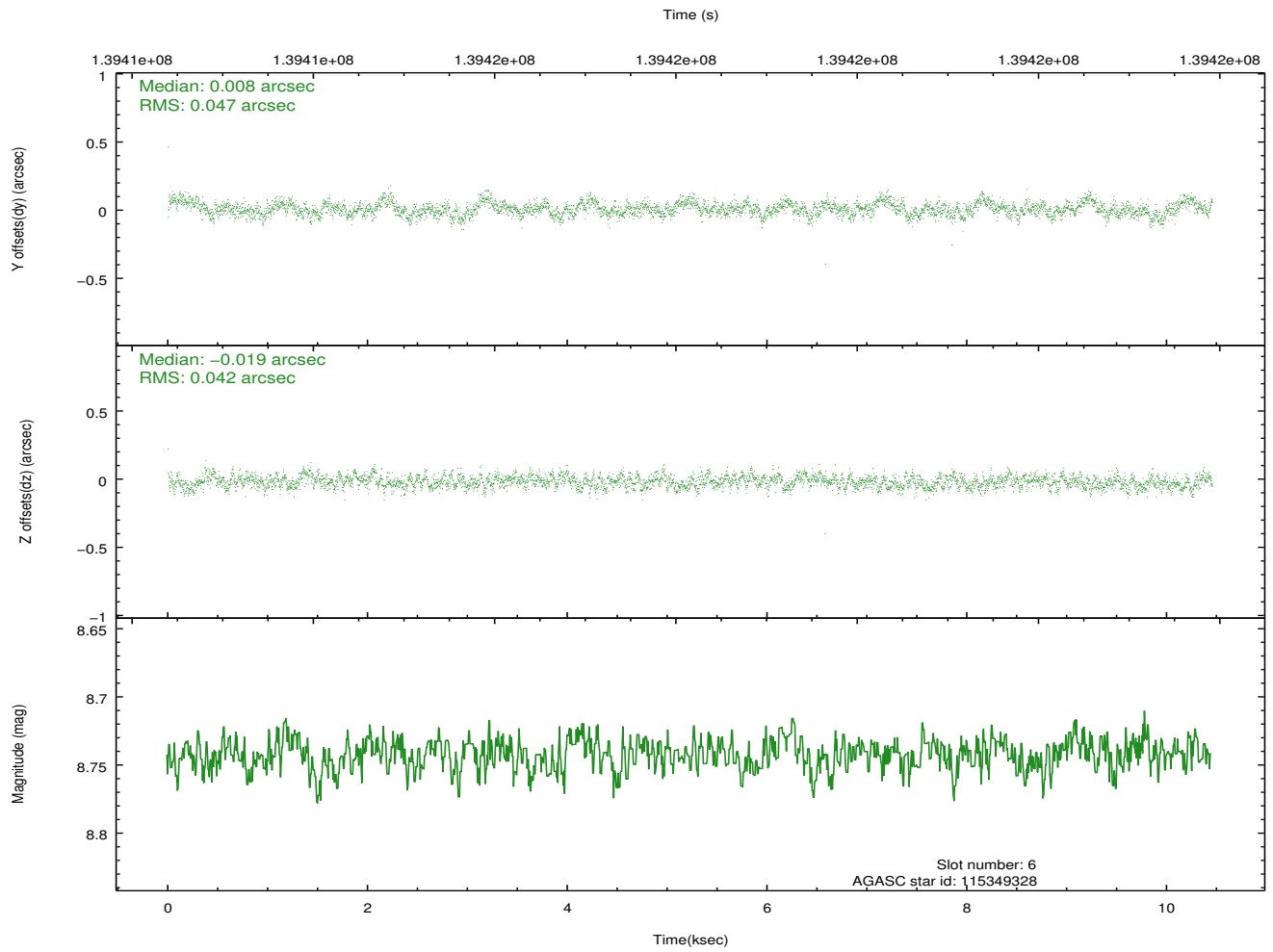
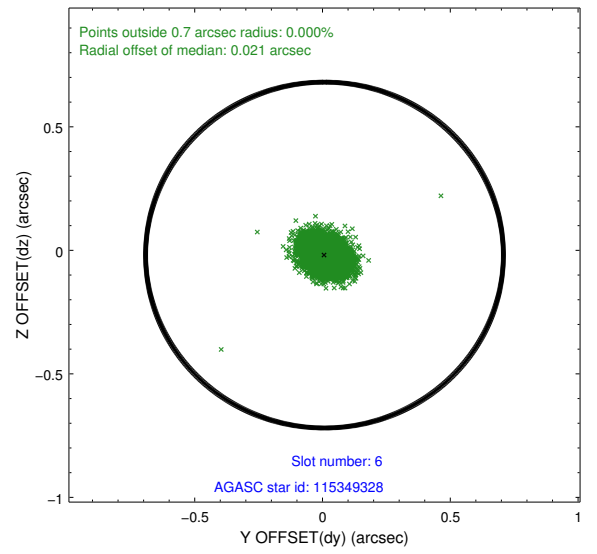
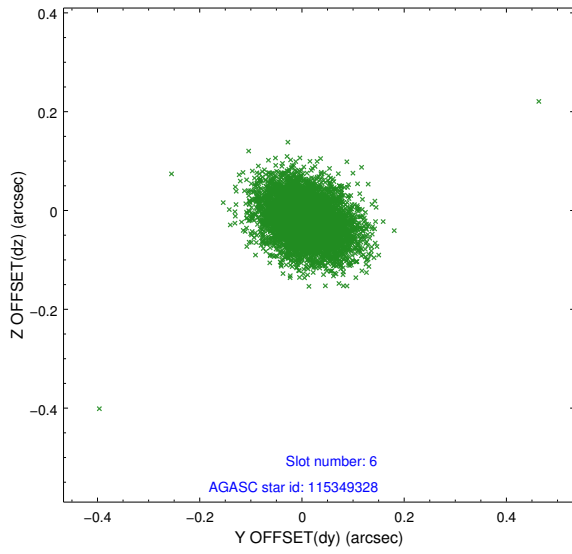
2.4.2 Slot 4



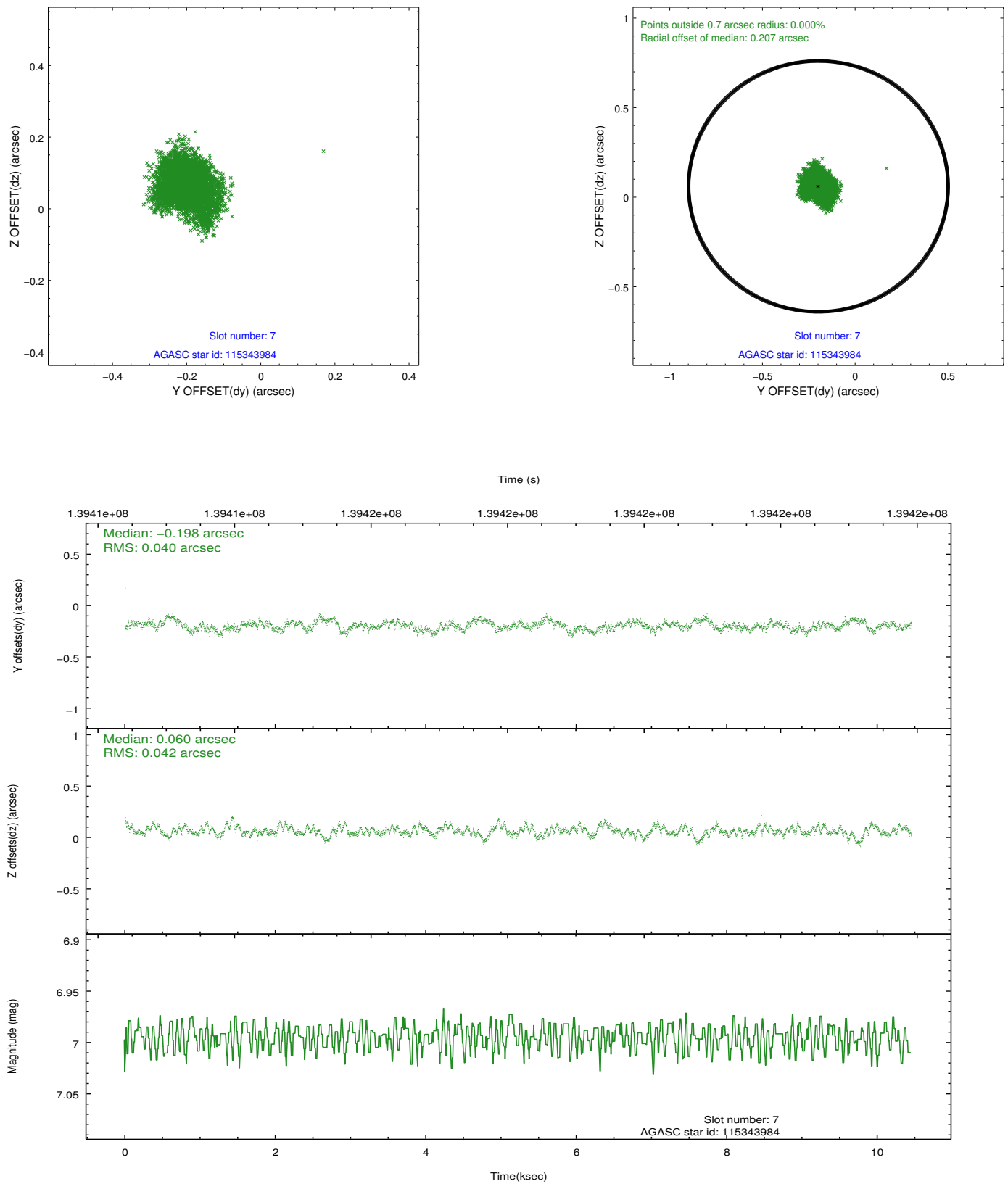
2.4.3 Slot 5



2.4.4 Slot 6

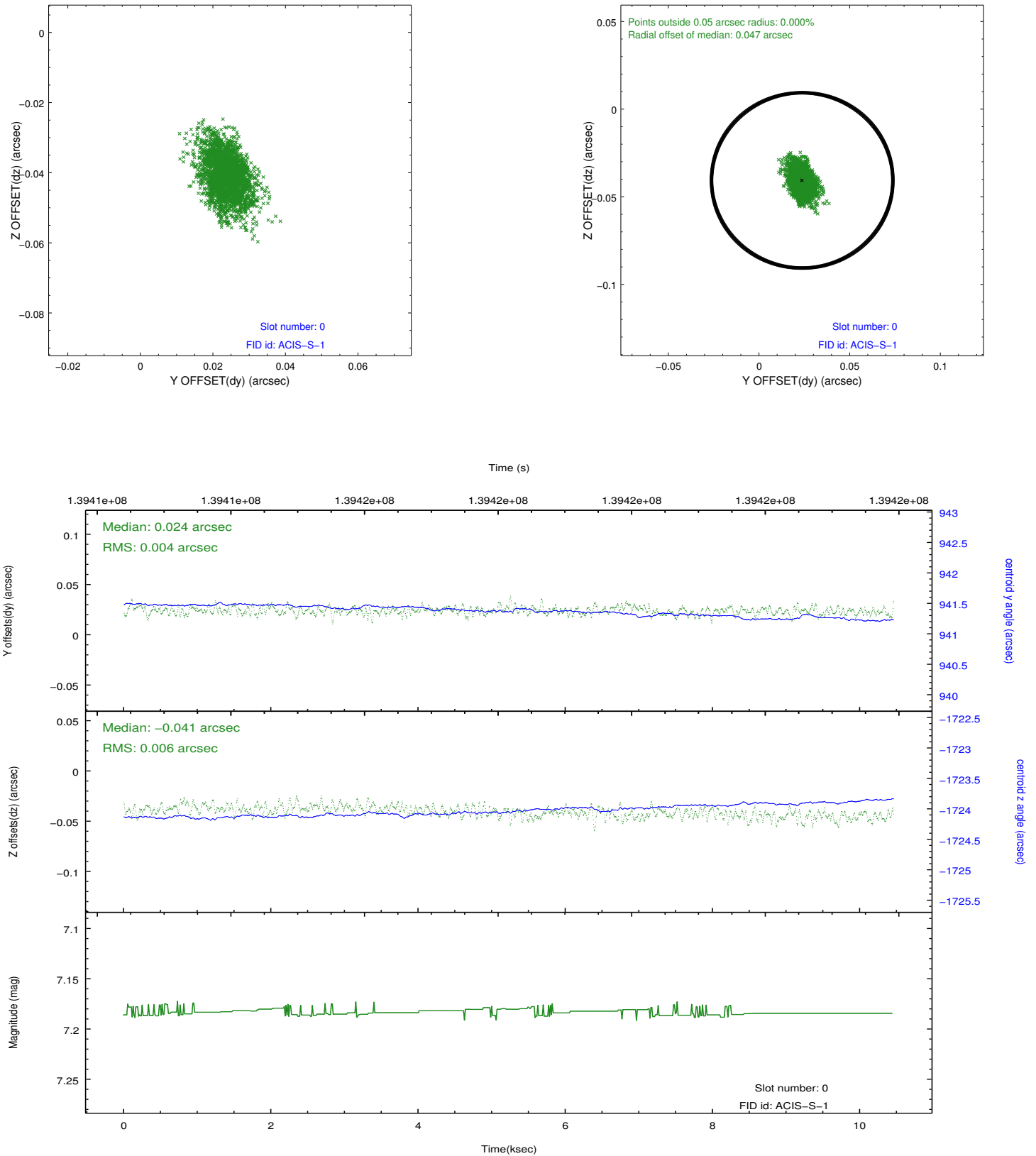


2.4.5 Slot 7

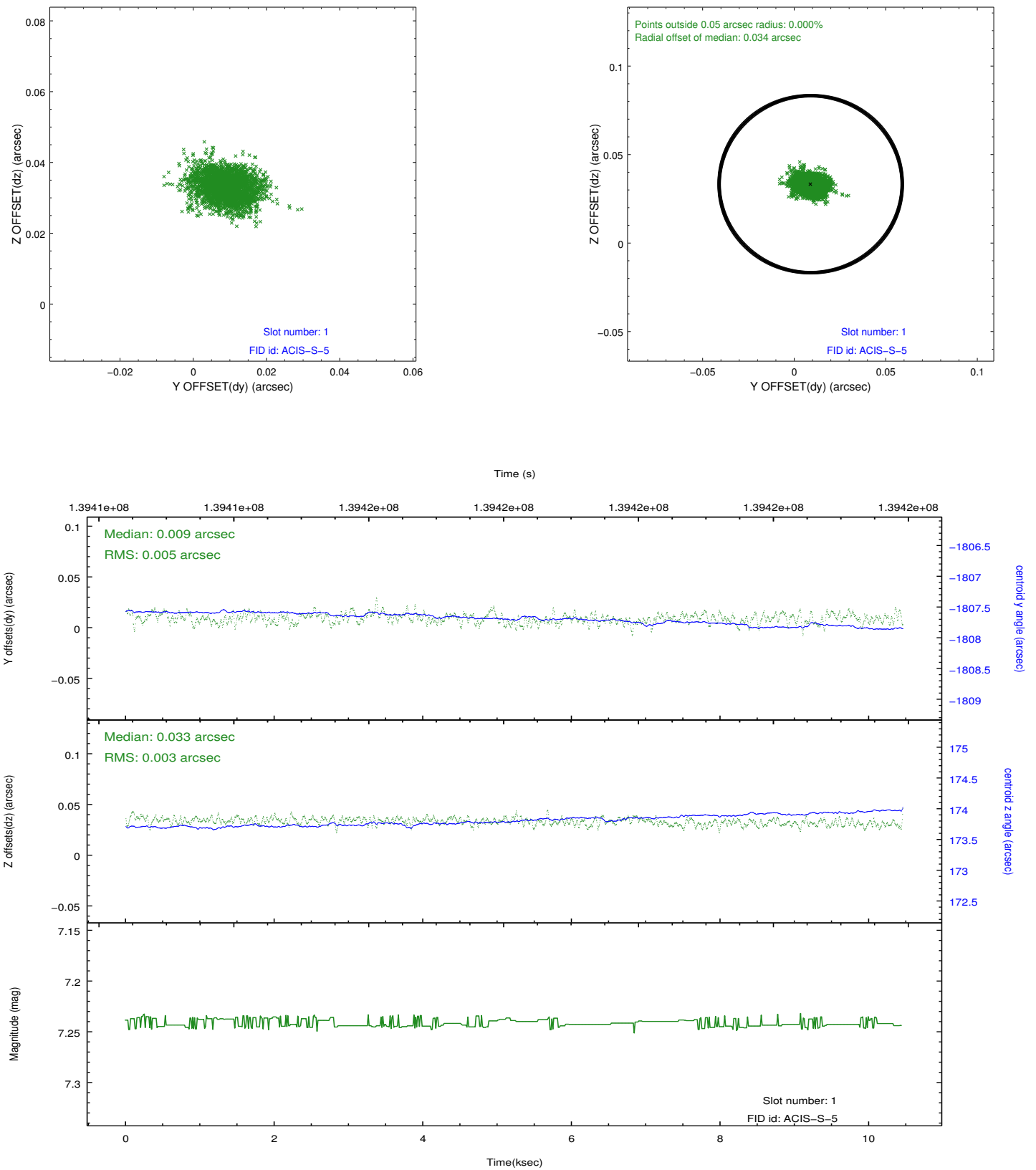


2.5 FID Slots

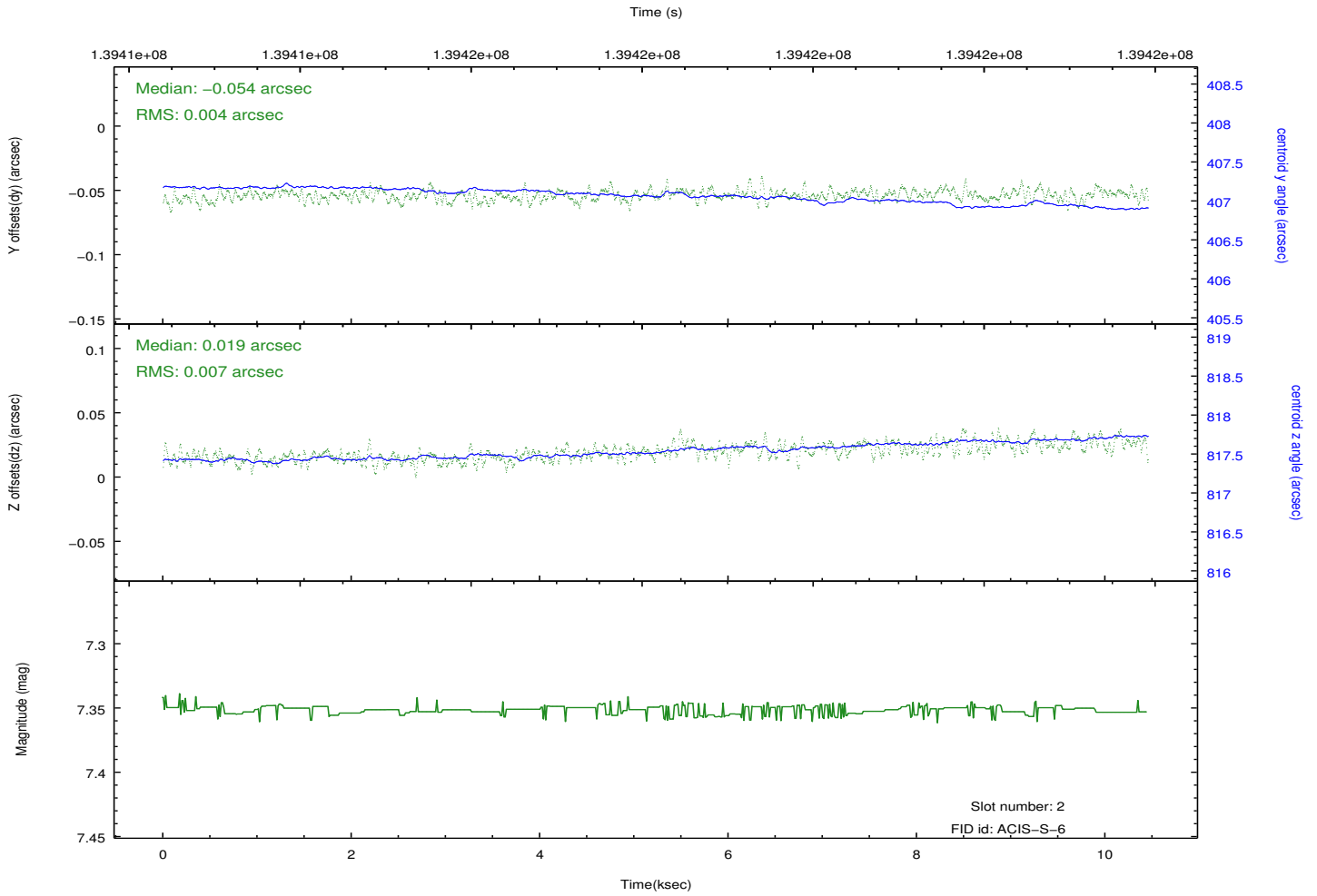
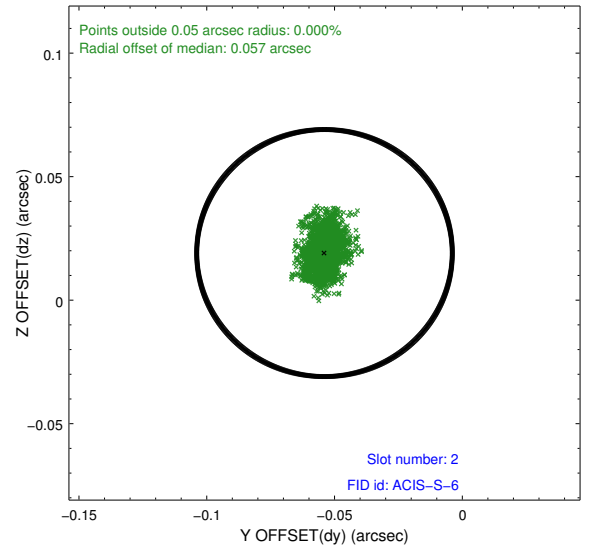
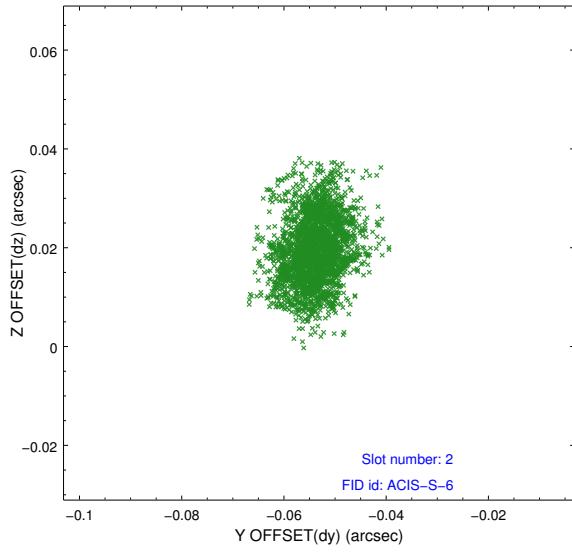
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.10.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.961

A.2 Comments