

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 16959 - L2 Version 1
Chandra X-Ray Center

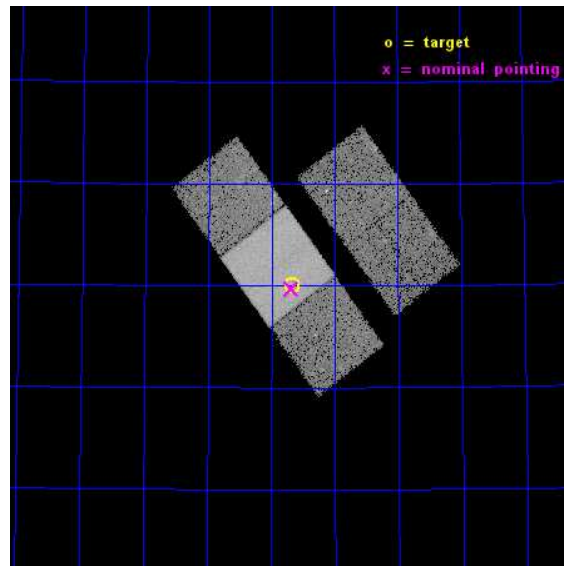
L2 Processing Date : Mar 30 2015

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1 Front

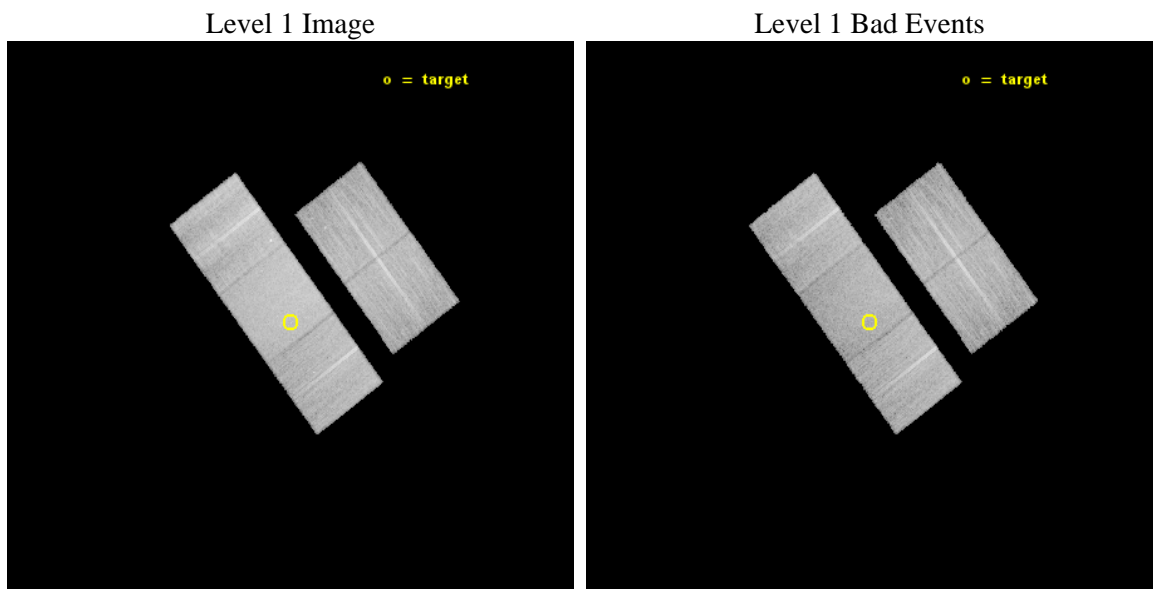
seq_num	502475	Sequence number
obs_id	16959	Observation id
title	The Astrophysics of the Most Energetic Gamma-Ray Bursts	Proposal t
observer	Dr. Andrew Fruchter	Principal investigator
object	GRB 150314A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	126.670708	Observer's specified target RA [deg]
dec_targ	63.83425	Observer's specified target Dec [deg]
ra_nom	126.67119884233	Nominal RA [deg]
dec_nom	63.828812028064	Nominal Dec [deg]
roll_nom	233.15618613341	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25037.792469025	Sum of GTIs [s]
livetime	24710.655277862	Livetime [s]
ontime2	25034.487308741	Sum of GTIs [s]
ontime3	25037.710389018	Sum of GTIs [s]
ontime6	25037.751429081	Sum of GTIs [s]
ontime7	25037.792469025	Sum of GTIs [s]
ontime8	25037.669349074	Sum of GTIs [s]
l2events	112973	Number of level 2 events



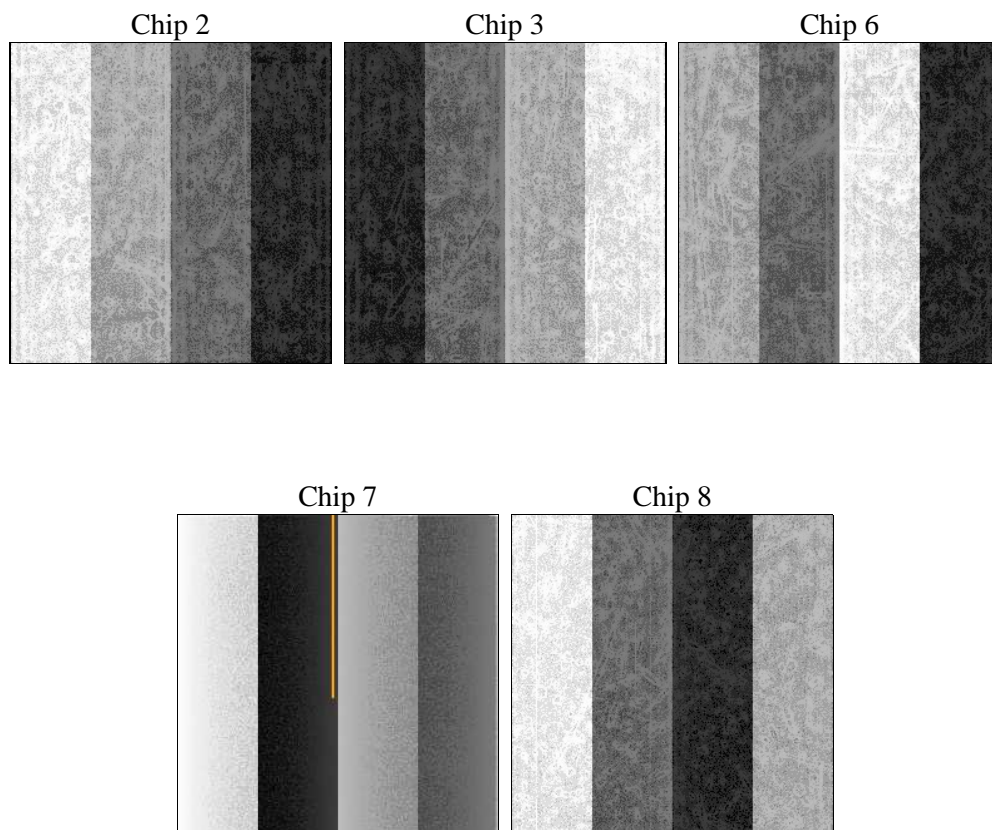
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	25037.792469025	Sum of GTIs [s]
caldsver	4.6.7	 	ontime2	25034.487308741	Sum of GTIs [s]
date	2015-03-31T00:13:20	Date and time of file creation	ontime3	25037.710389018	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	25037.751429081	Sum of GTIs [s]
			ontime7	25037.792469025	Sum of GTIs [s]
			ontime8	25037.669349074	Sum of GTIs [s]
			l1events	663200	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	115398	114854	121545	158941	152462
rejected events	103161	102162	107668	92380	113947
rejected %	89%	88%	88%	58%	74%

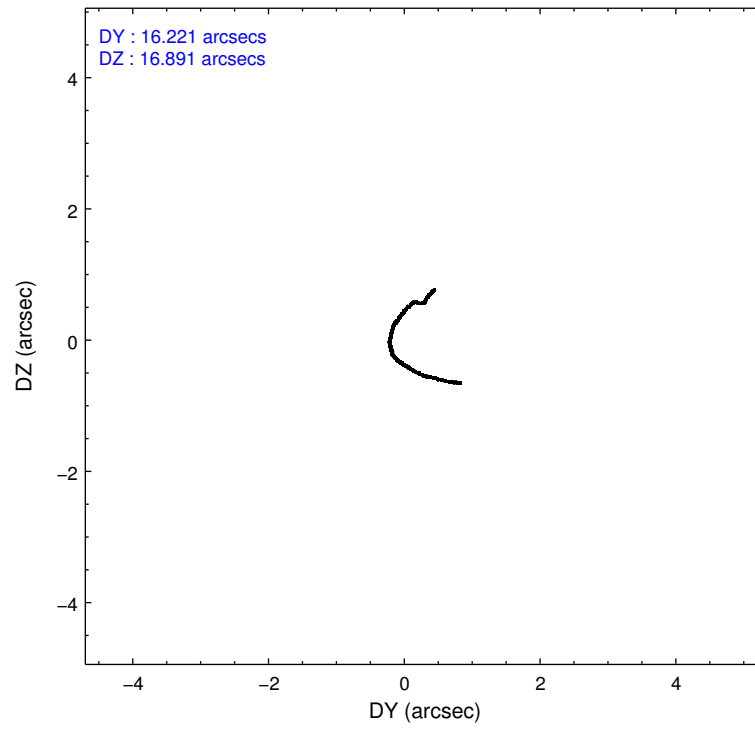
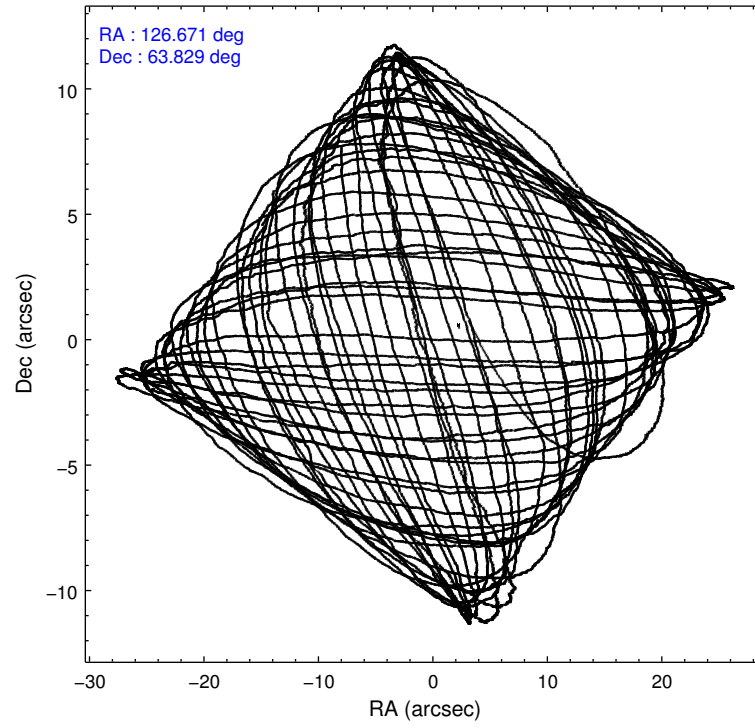
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	4364	4468	4509	5579	11231
	3%	3%	3%	3%	7%
grade 1 events	49	52	47	198	117
	0%	0%	0%	0%	0%
grade 2 events	2912	2746	3283	13903	9194
	2%	2%	2%	8%	6%
grade 3 events	1275	1379	1316	5170	3857
	1%	1%	1%	3%	2%
grade 4 events	1252	1315	1338	5166	3820
	1%	1%	1%	3%	2%
grade 5 events	4750	5867	5780	15596	8696
	4%	5%	4%	9%	5%
grade 6 events	2437	2790	3436	36764	10414
	2%	2%	2%	23%	6%
grade 7 events	98359	96237	101836	76565	105133
	85%	83%	83%	48%	68%

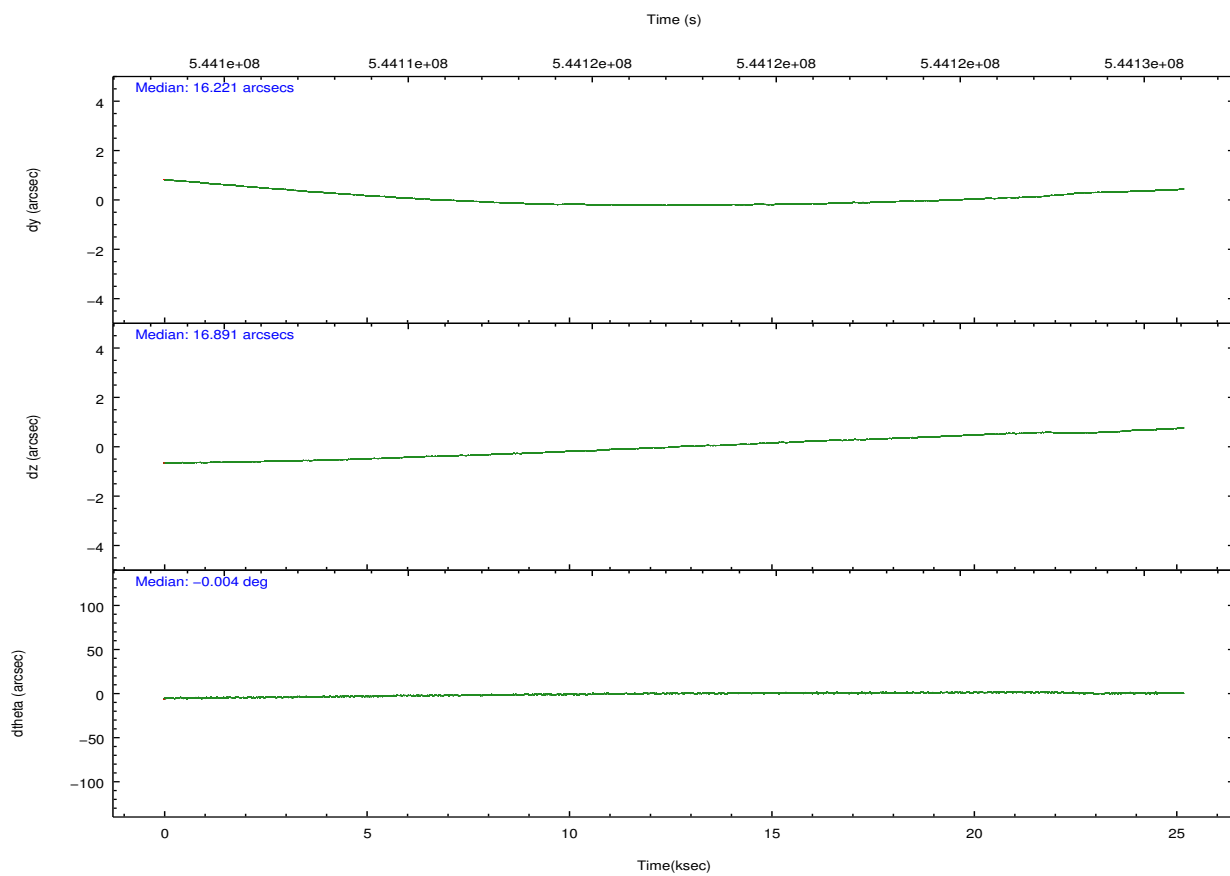
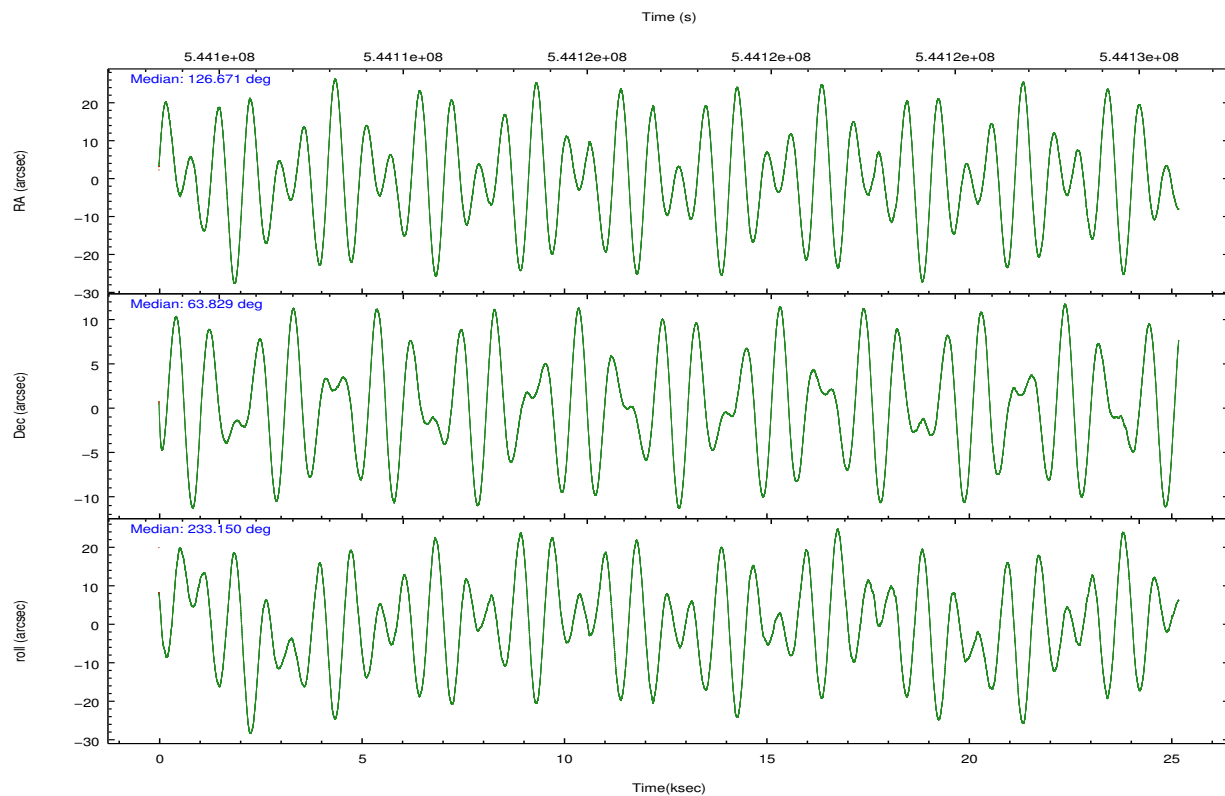
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	126.677780	126.6711988423285
[deg] Pointing Dec	63.856119	63.828812028064
[deg] Pointing Roll	232.993651	233.1561861334125
[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)	544104810.184000	544103798.3793499
Observation start date	2015-03-30T12:12:23	2015-03-30T11:56:38
[s] Observation end time (MET)	544129810.184000	544130552.93085
Observation end date	2015-03-30T19:09:03	2015-03-30T19:22:32
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



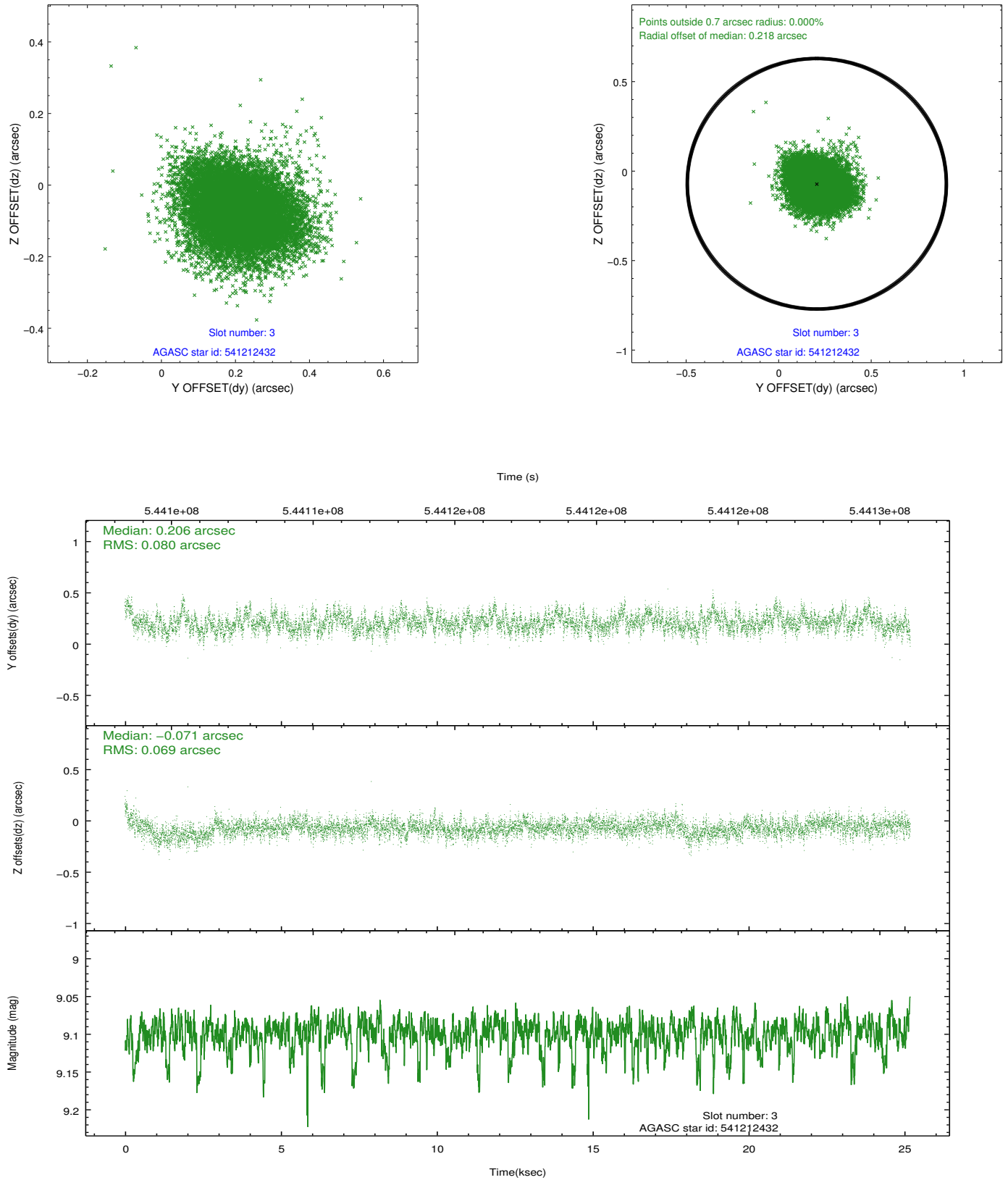


Slot Statistics

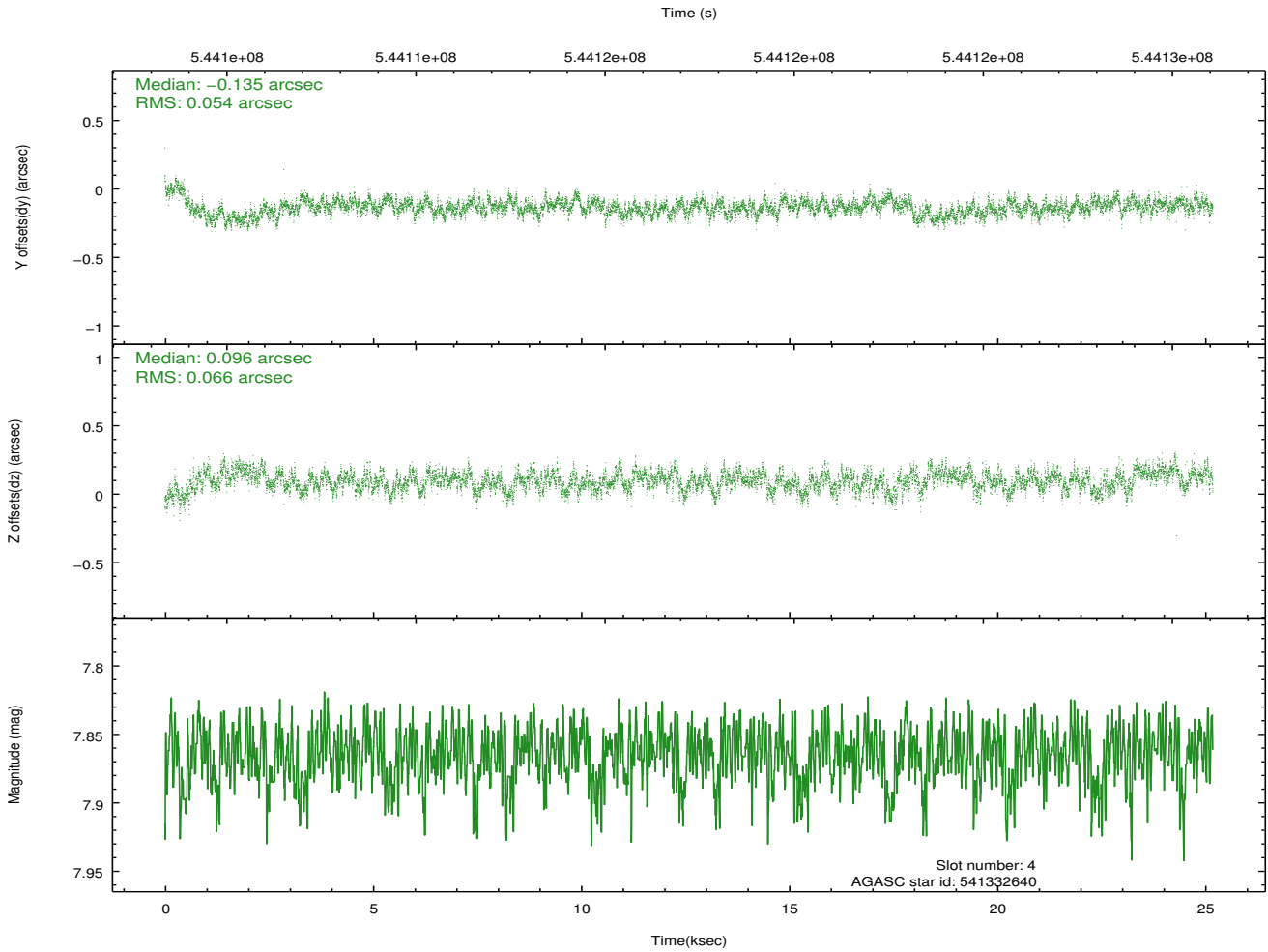
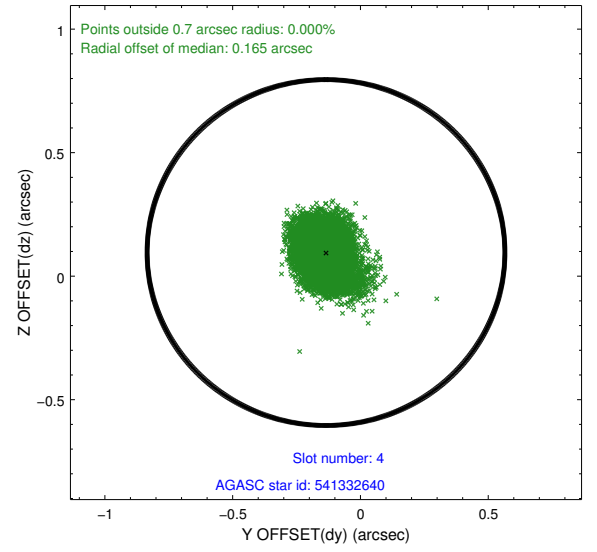
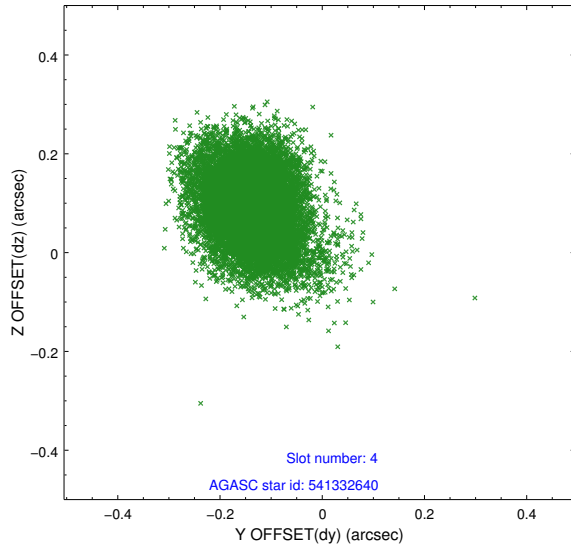
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	6144	-0.115	-0.070	0.020	0.027	0.000000	0.000000	-769.42	-1738.33
1	FID		ACIS-S-4	7.19	6144	0.320	0.073	0.008	0.019	0.000000	0.000000	2144.23	170.17
2	FID		ACIS-S-5	7.22	6143	-0.237	0.004	0.018	0.025	0.000000	0.000000	-1822.24	163.91
3	GUIDE	used	541212432	9.10	12276	0.206	-0.071	0.111	0.185	125.331076	63.704075	1712.38	-1398.91
4	GUIDE	used	541332640	7.86	12286	-0.135	0.096	0.089	0.151	126.313388	64.713296	-2126.90	-2305.49
5	GUIDE	used	541338376	8.43	12286	0.193	0.009	0.091	0.147	127.062635	63.943055	-617.41	296.44
6	GUIDE	used	541340592	9.65	12269	-0.313	-0.071	0.136	0.226	127.351138	63.392414	674.78	1868.55
7	GUIDE	used	541331904	9.21	12284	0.047	0.040	0.114	0.183	128.068247	63.878961	-1411.10	1696.38

2.4 Star Slots

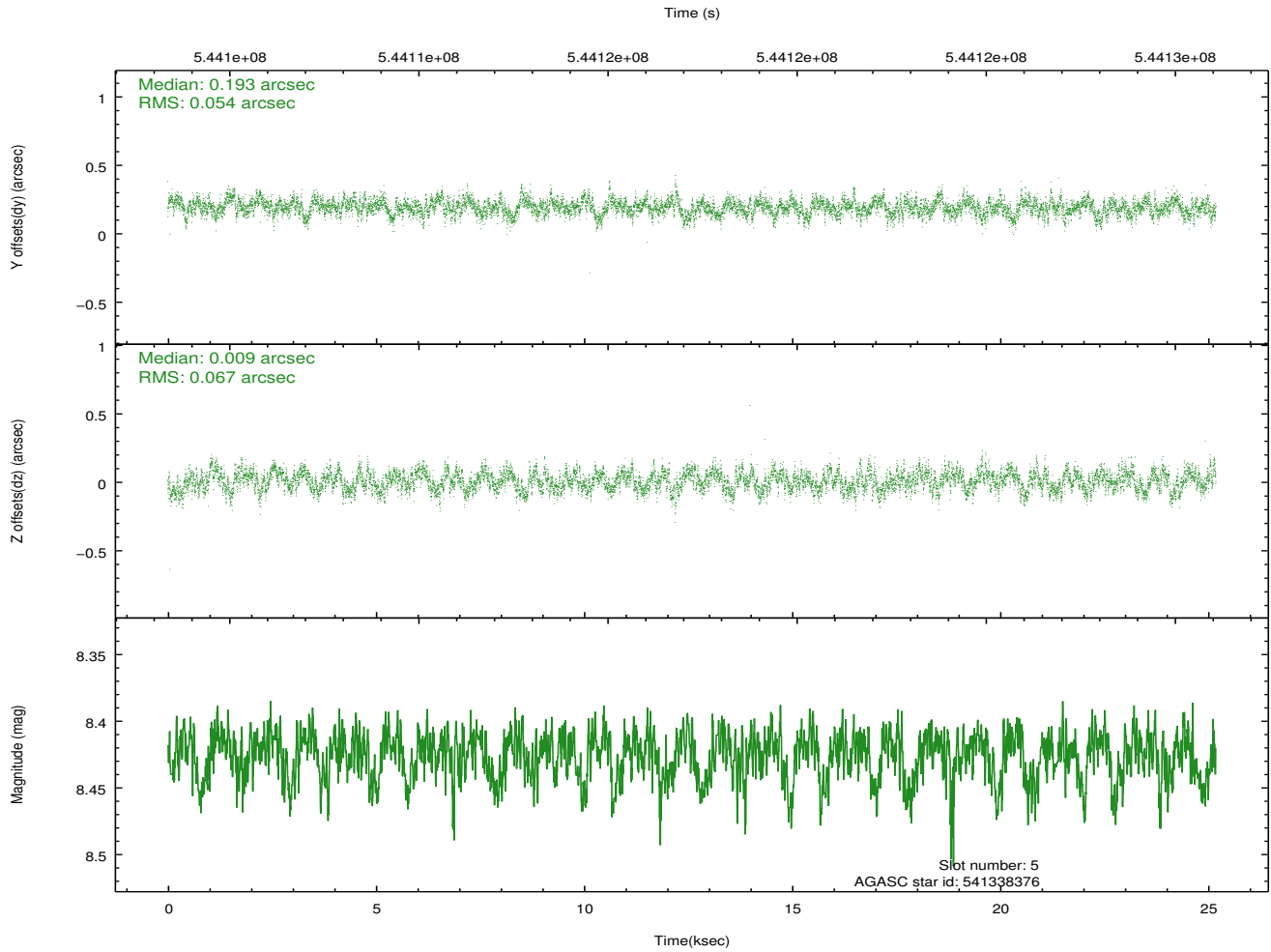
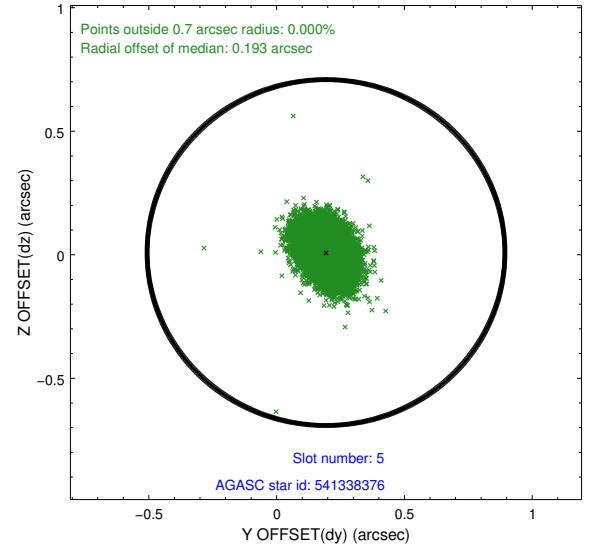
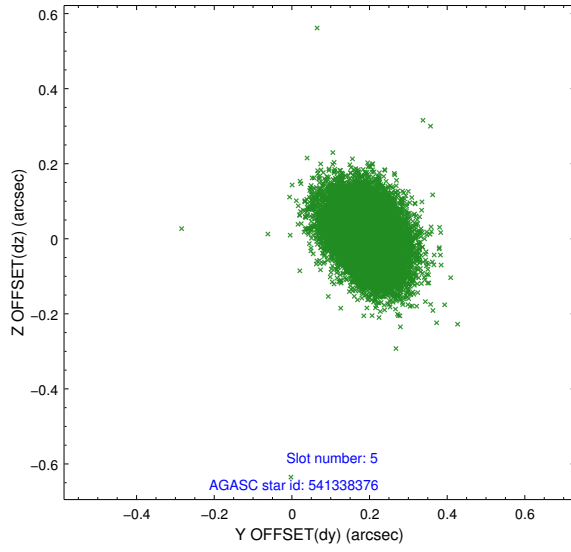
2.4.1 Slot 3



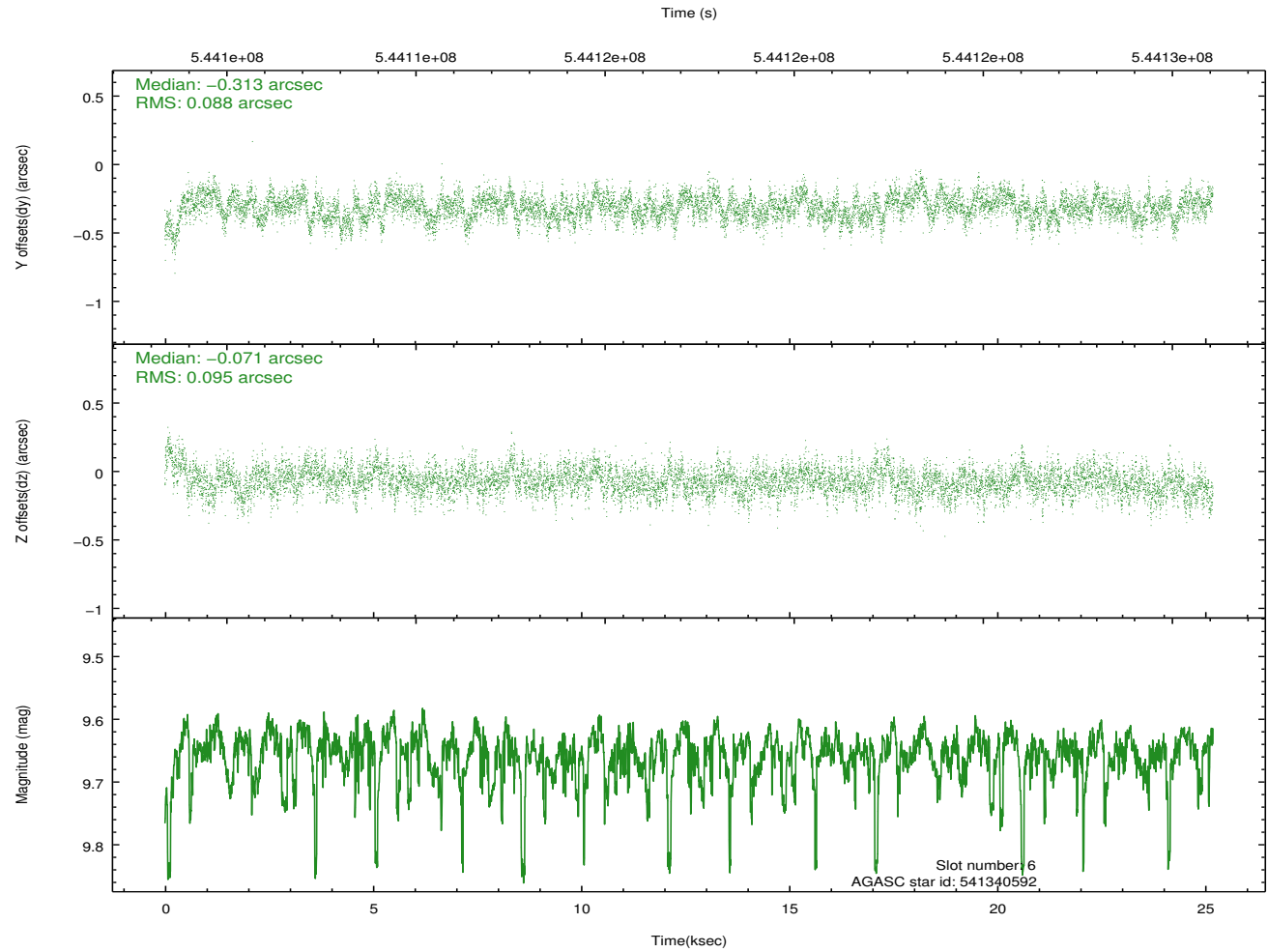
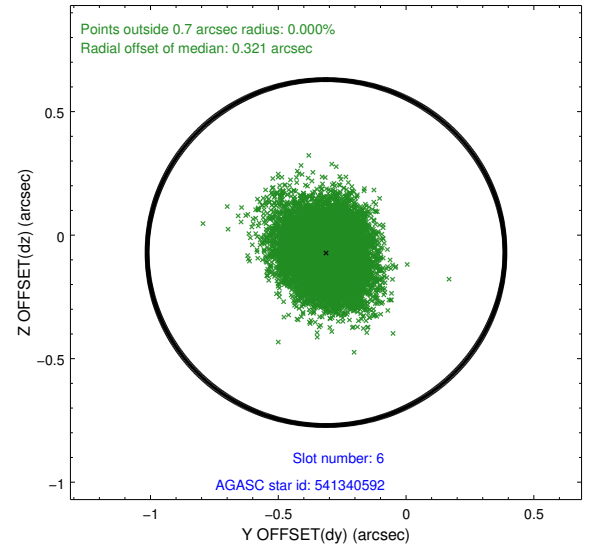
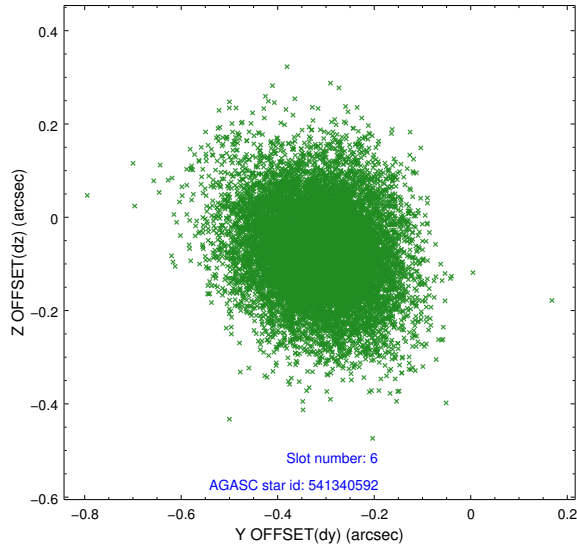
2.4.2 Slot 4



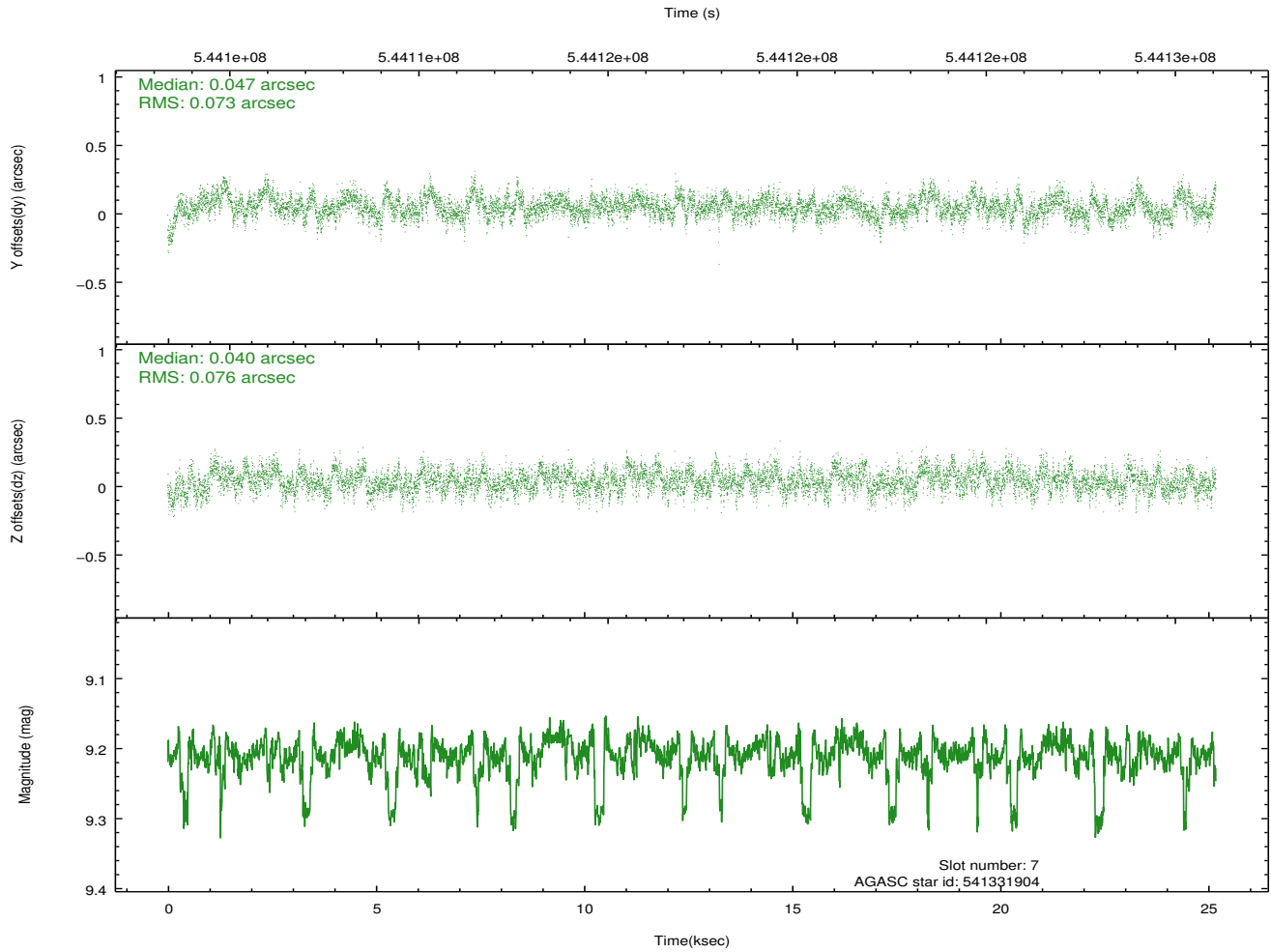
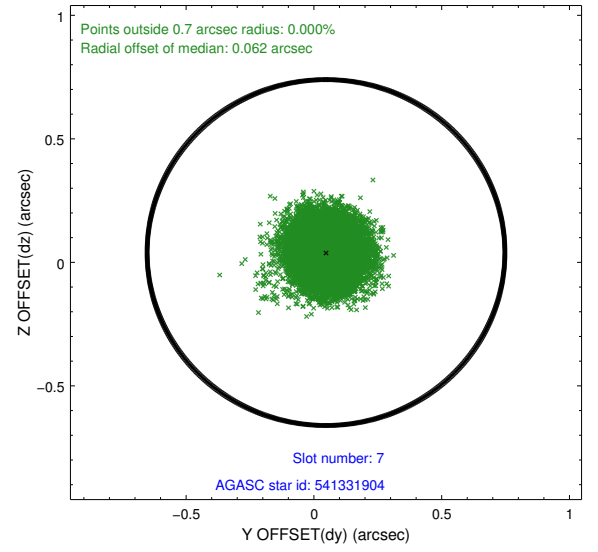
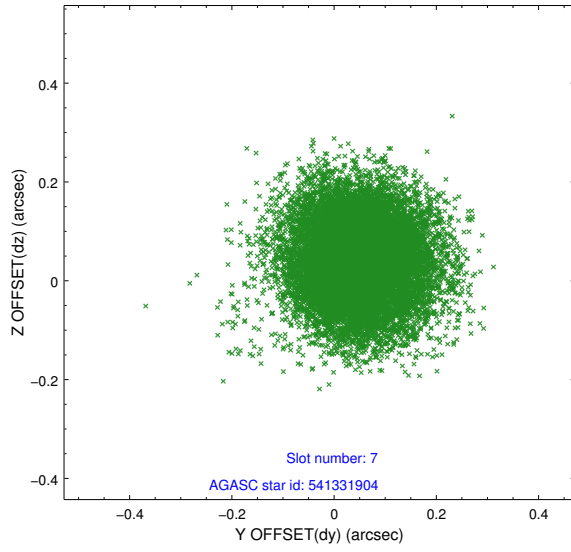
2.4.3 Slot 5



2.4.4 Slot 6

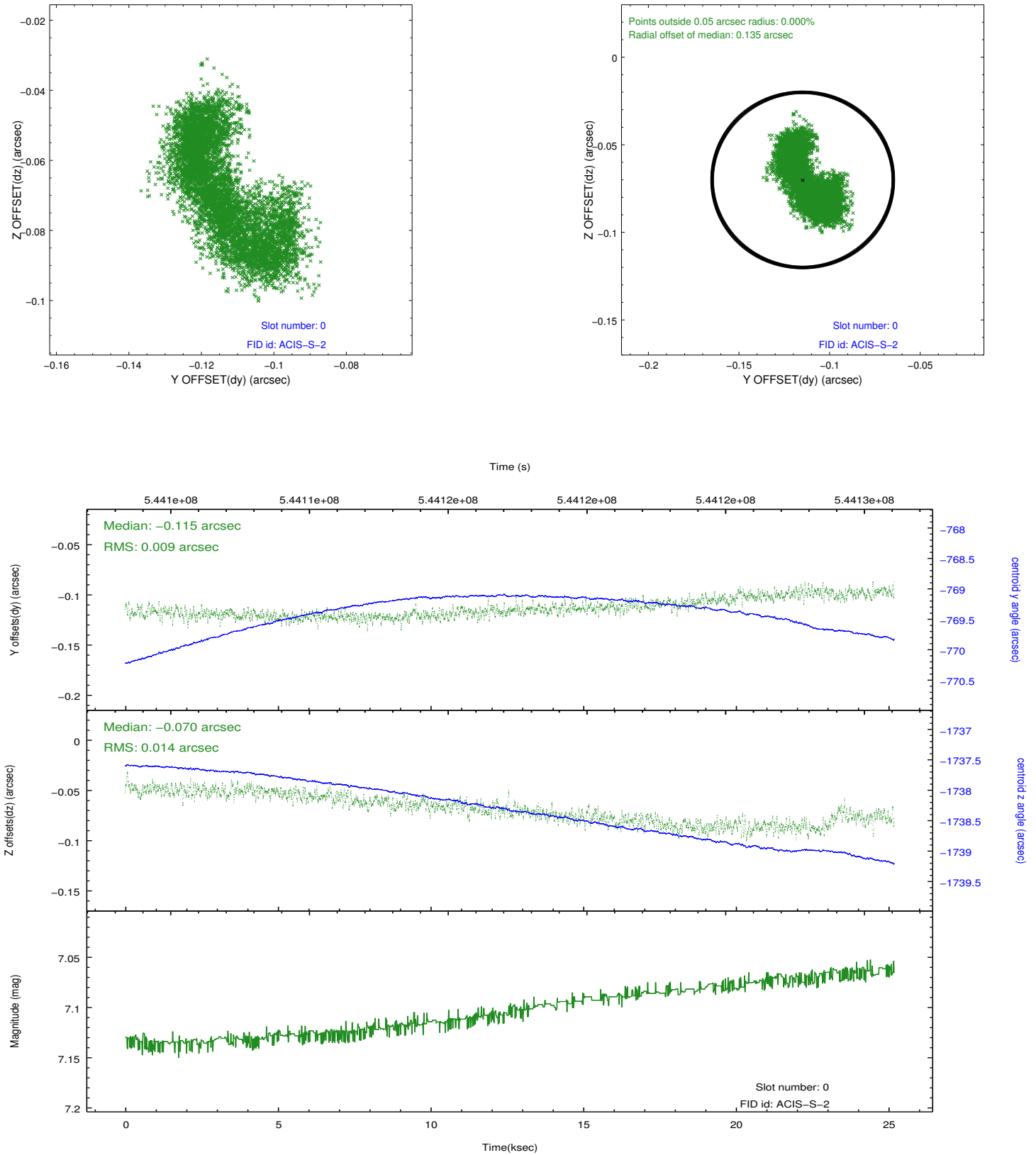


2.4.5 Slot 7

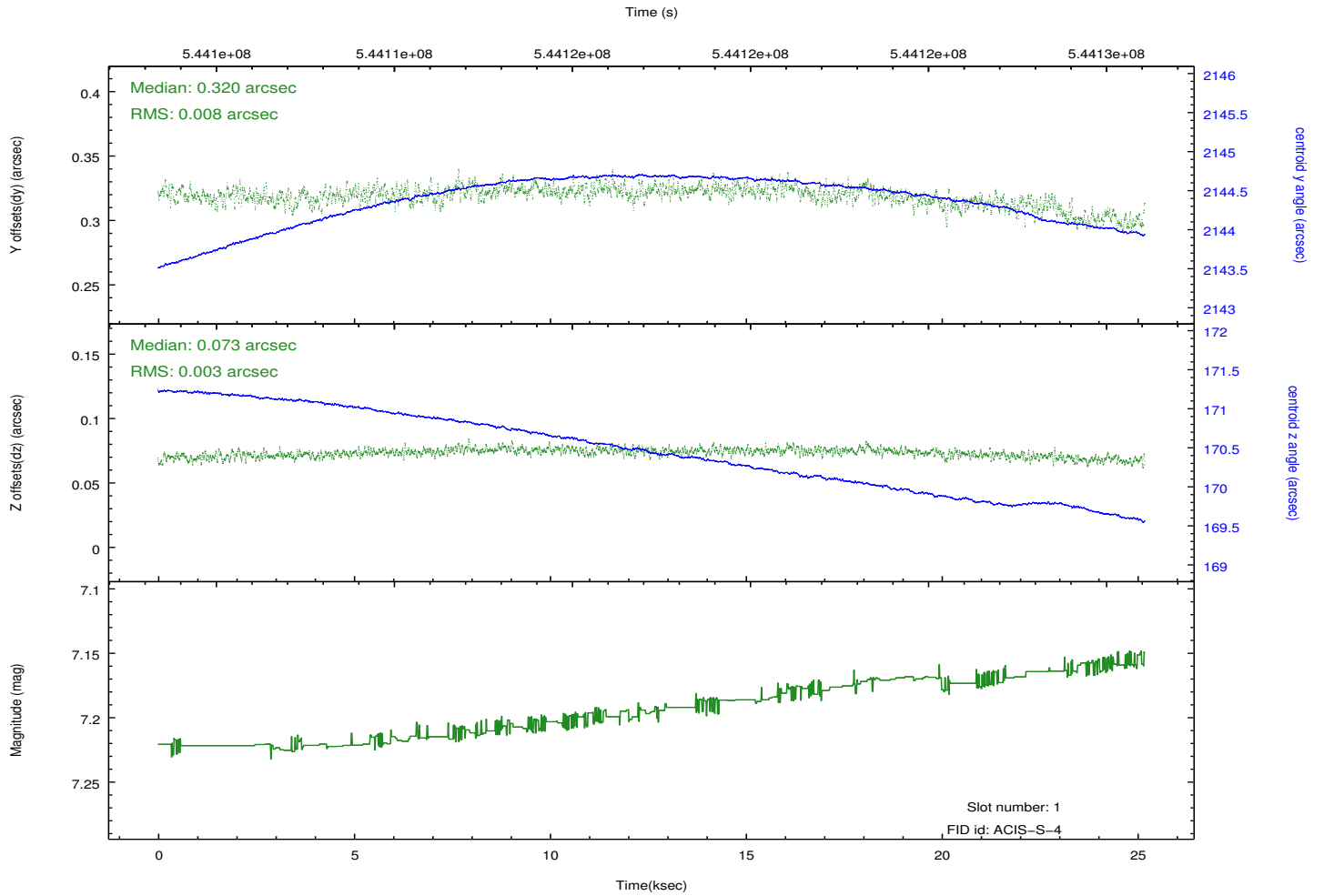
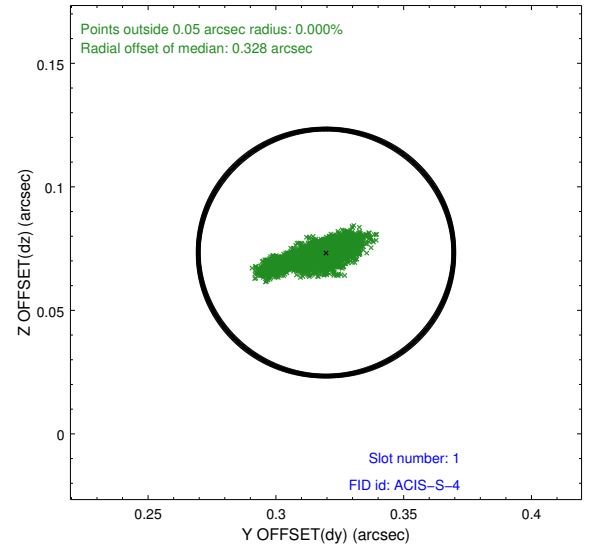
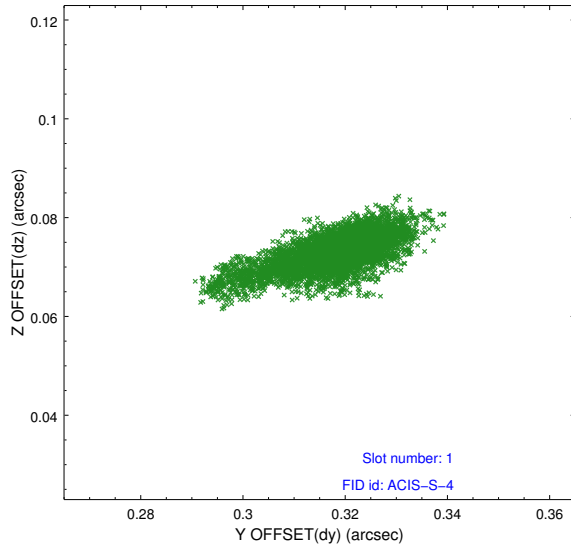


2.5 FID Slots

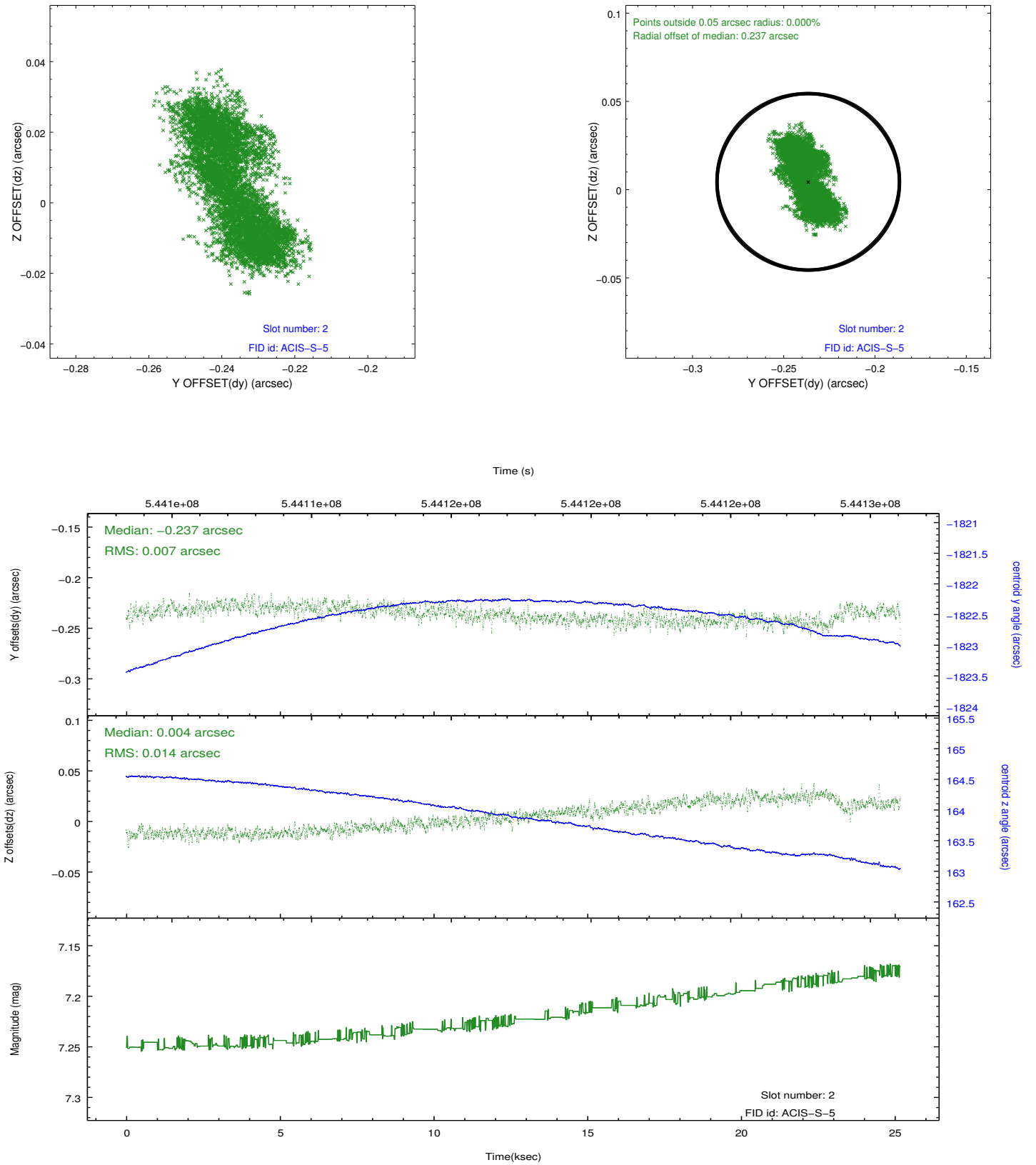
2.5.1 Slot 0



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)	2015.03.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.037792469025

A.2 Comments