

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12248 - L2 Version 2
Chandra X-Ray Center

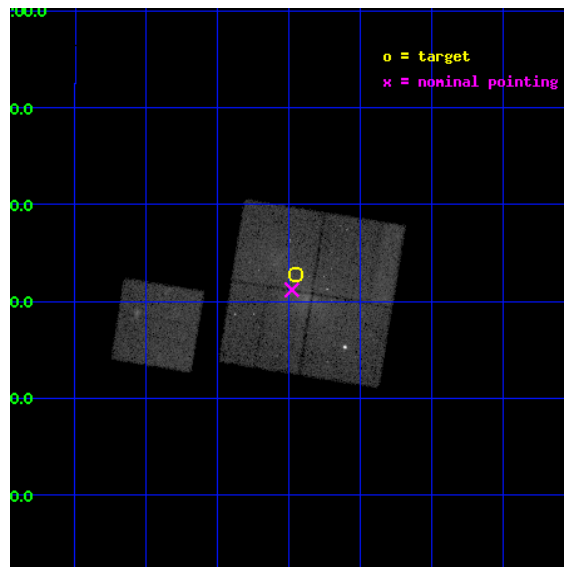
L2 Processing Date : Jul 5 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

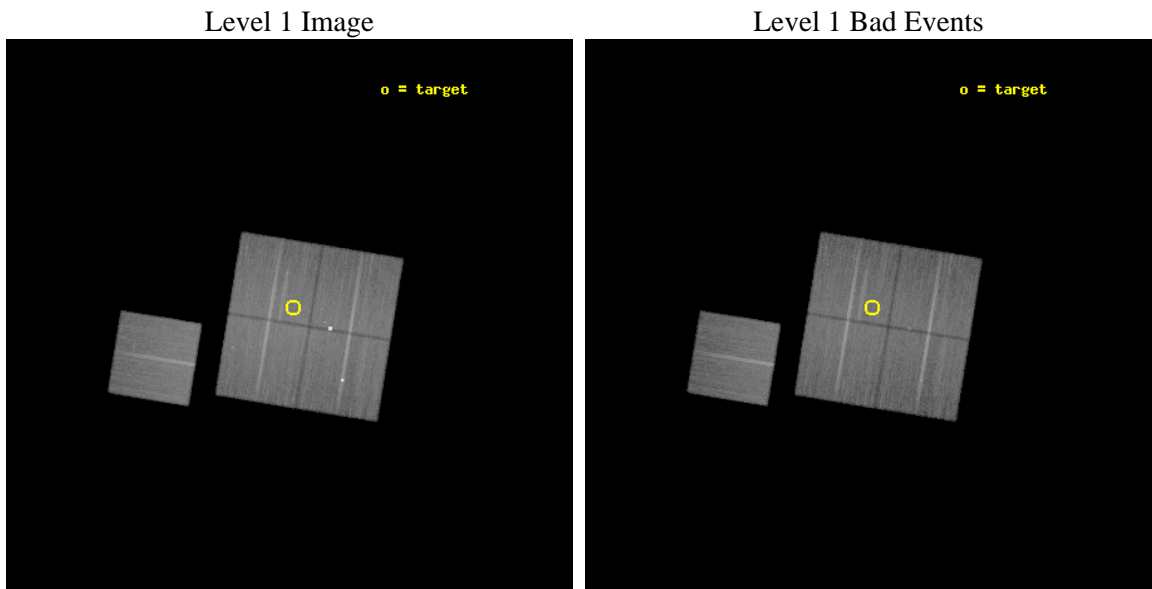
seq_num	800968	Sequence number
obs_id	12248	Observation id
title	Extending X-ray and Sunyaev-Zel'dovich effect calibrations to low mass galaxy clusters	Proposal title
observer	Dr Ben Maughan	Principal investigator
object	A2507	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	344.238	Observer's specified target RA [deg]
dec_targ	5.547	Observer's specified target Dec [deg]
ra_nom	344.24480158152	Nominal RA [deg]
dec_nom	5.5200265870768	Nominal Dec [deg]
roll_nom	279.28181256439	Nominal Roll [deg]
revision	2	Processing version of data
ontime	34043.375192106	Sum of GTIs [s]
livetime	33598.573432853	Livetime [s]
ontime0	34049.534103155	Sum of GTIs [s]
ontime1	34046.434093118	Sum of GTIs [s]
ontime2	34052.757203519	Sum of GTIs [s]
ontime3	34043.375192106	Sum of GTIs [s]
ontime6	34046.352023005	Sum of GTIs [s]
l2events	139217	Number of level 2 events



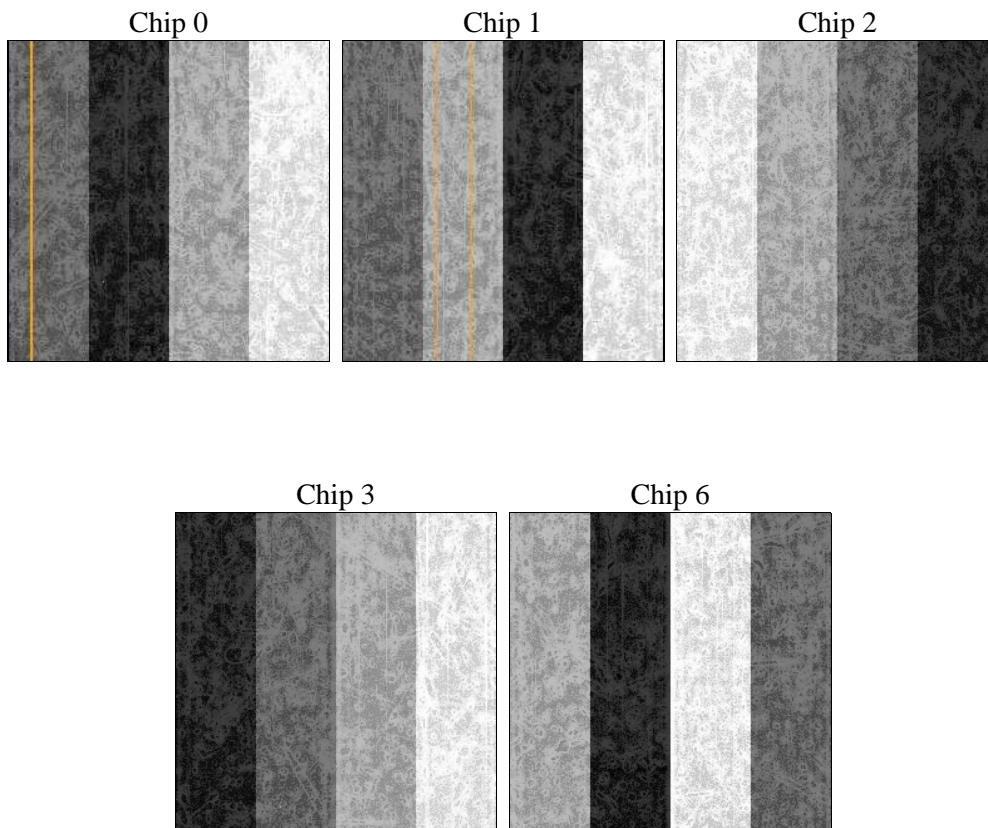
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	34000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	34043.375192106	Sum of GTIs [s]
caldbver	4.5.0	 	ontime0	34049.534103155	Sum of GTIs [s]
date	2012-07-05T06:52:31	Date and time of file creation	ontime1	34046.434093118	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	34052.757203519	Sum of GTIs [s]
			ontime3	34043.375192106	Sum of GTIs [s]
			ontime6	34046.352023005	Sum of GTIs [s]
			l1events	1262623	Number of level 1 events

2.1.4 Events

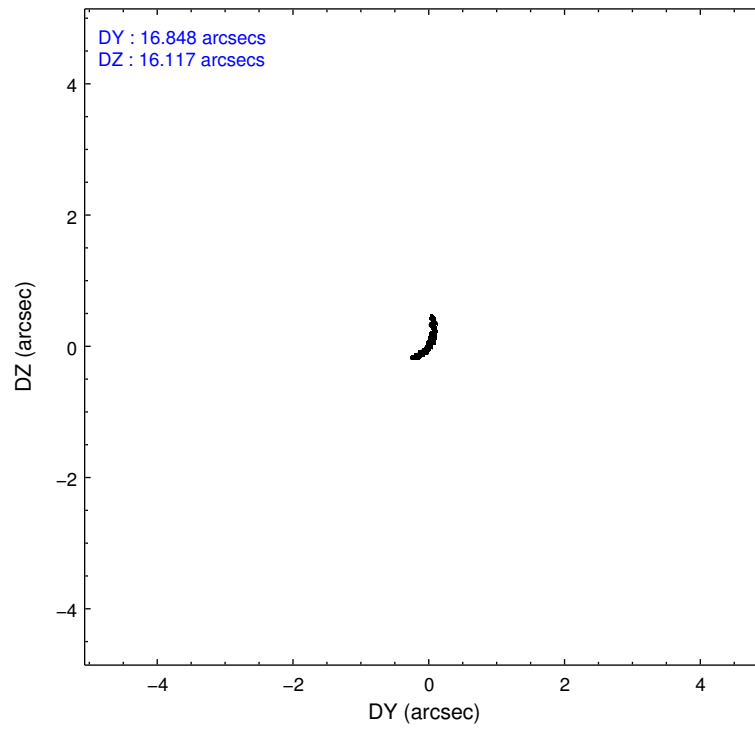
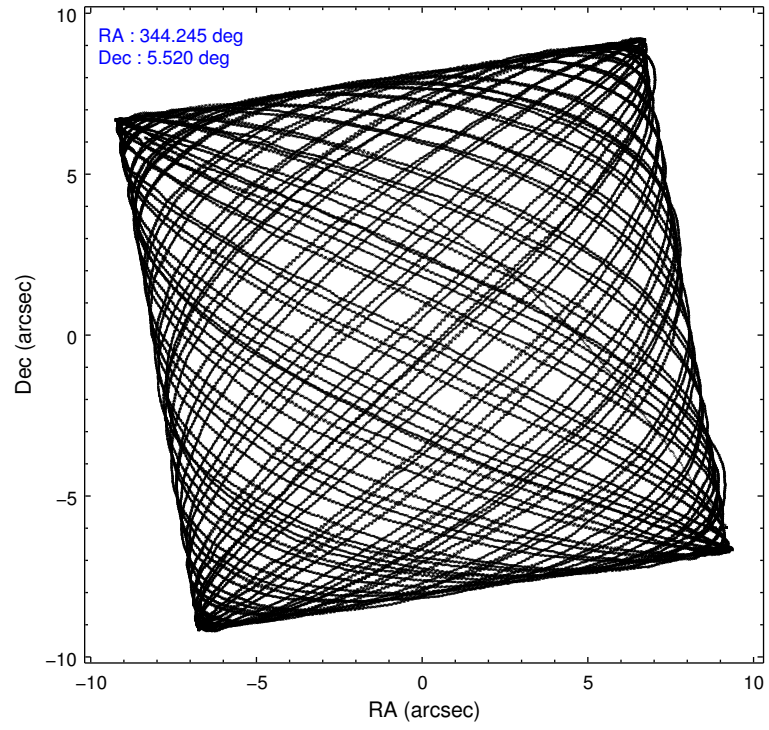
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	245436	257524	259197	250300	250166
rejected events	201347	204603	229056	220847	222393
rejected %	82%	79%	88%	88%	88%

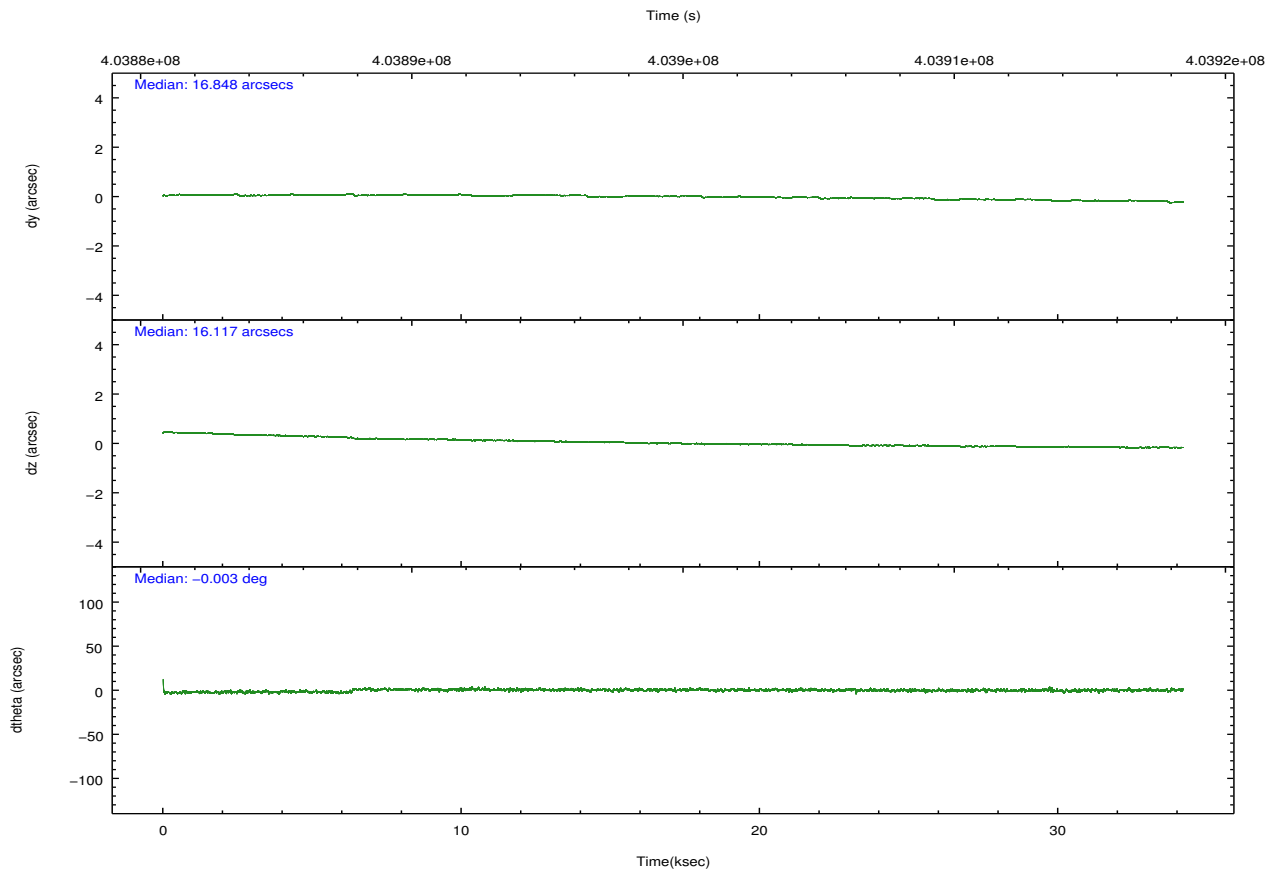
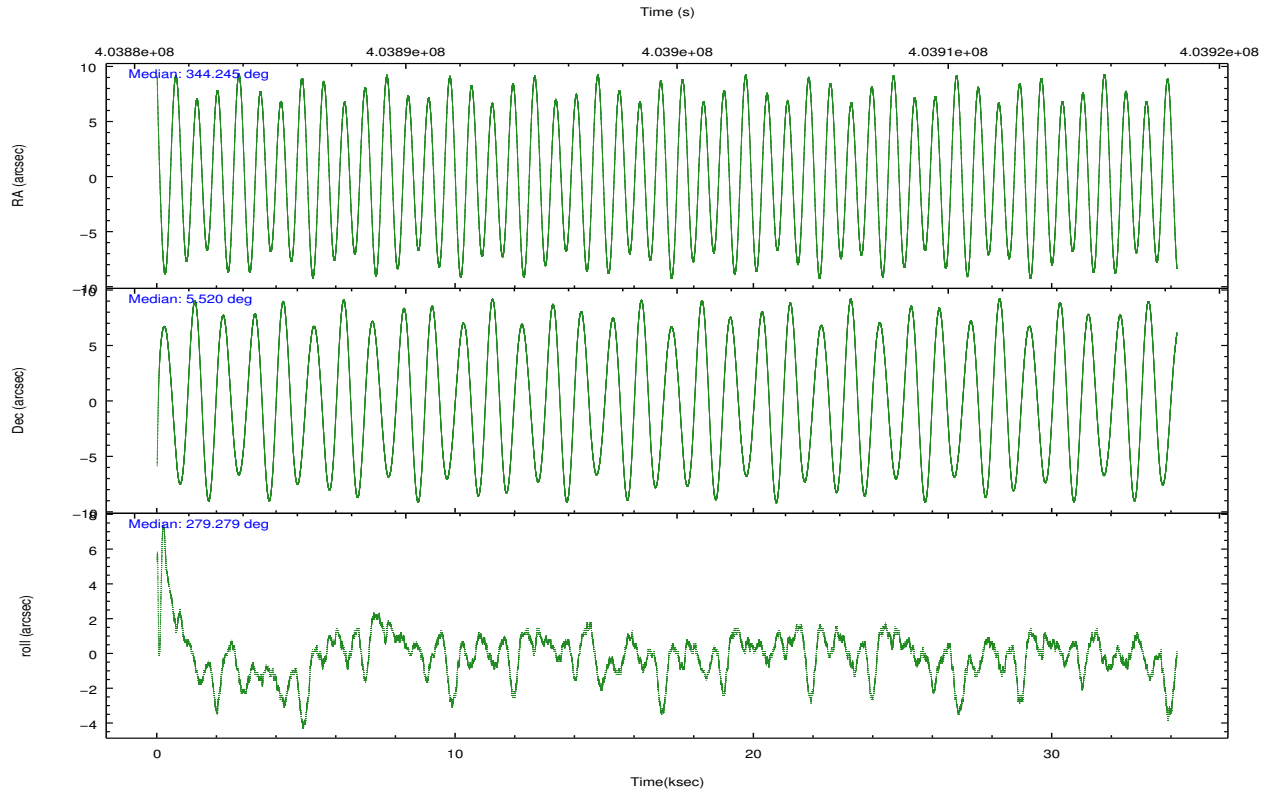
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	23273	32733	12551	11895	9676
	9%	12%	4%	4%	3%
grade 1 events	319	245	180	164	145
	0%	0%	0%	0%	0%
grade 2 events	8330	7545	6792	6201	6188
	3%	2%	2%	2%	2%
grade 3 events	3482	3176	2860	2959	2955
	1%	1%	1%	1%	1%
grade 4 events	3289	3093	2880	2911	2868
	1%	1%	1%	1%	1%
grade 5 events	10311	11082	9607	11643	11300
	4%	4%	3%	4%	4%
grade 6 events	5724	6383	5064	5500	6091
	2%	2%	1%	2%	2%
grade 7 events	190708	193267	219263	209027	210943
	77%	75%	84%	83%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	344.227223	344.2448015815223	Subarray requested	NONE	NONE
[deg] Pointing Dec	5.541238	5.520026587076848	Alternating exposures requested	N	N
[deg] Pointing Roll	279.074815	279.281812564387	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-229.442463	-229.4463571591594			
[mm] SIM translation stage offset	-4.15	-4.146095843770325			
[s] Observation start time (MET)	403882727.184000	403881638.40802			
Observation start date	2010-10-19T13:37:41	2010-10-19T13:20:38			
[s] Observation end time (MET)	403916727.184000	403917448.32236			
Observation end date	2010-10-19T23:04:21	2010-10-19T23:17:28			
Read mode	TIMED	TIMED			

2.3 Aspect



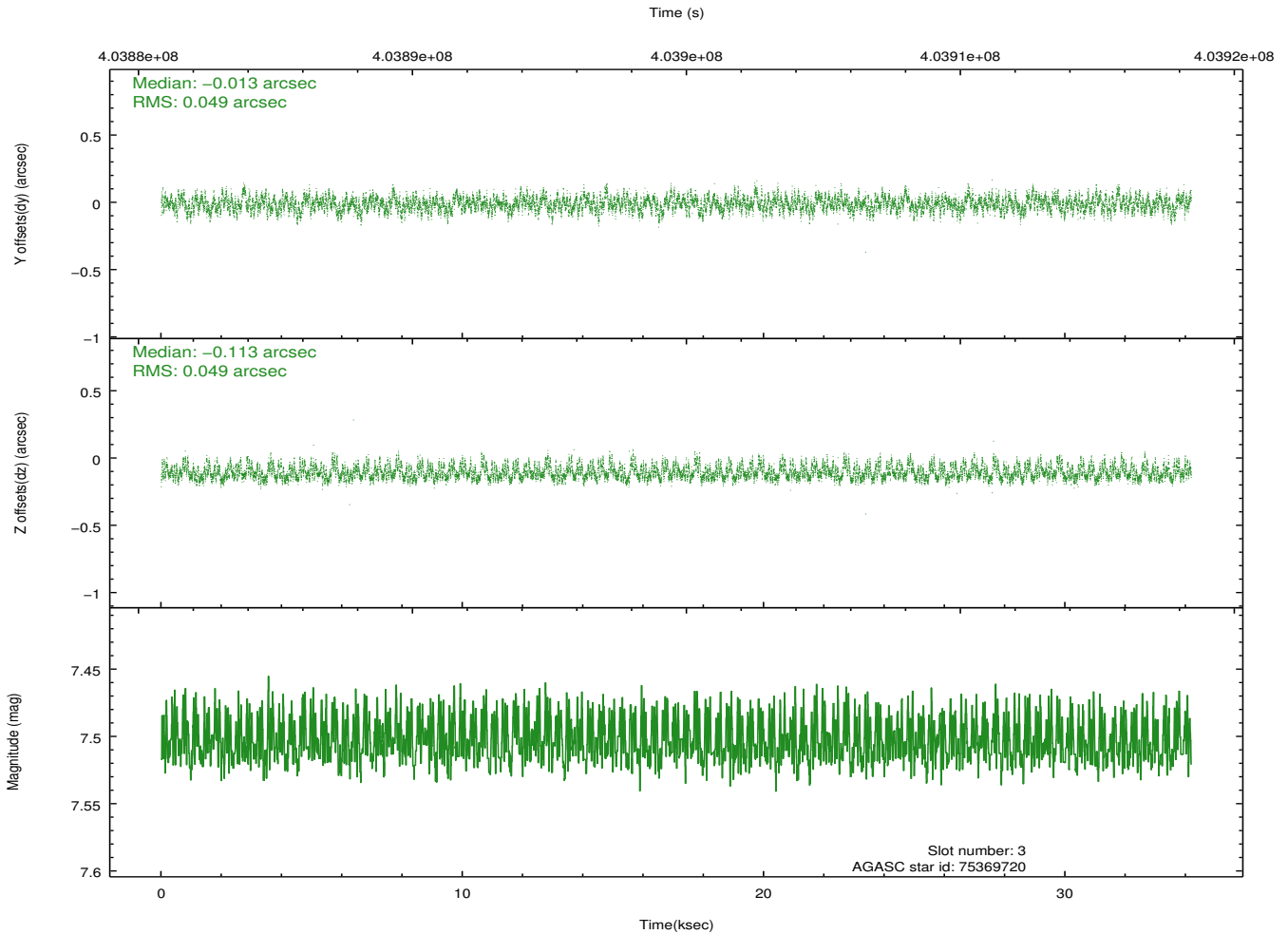
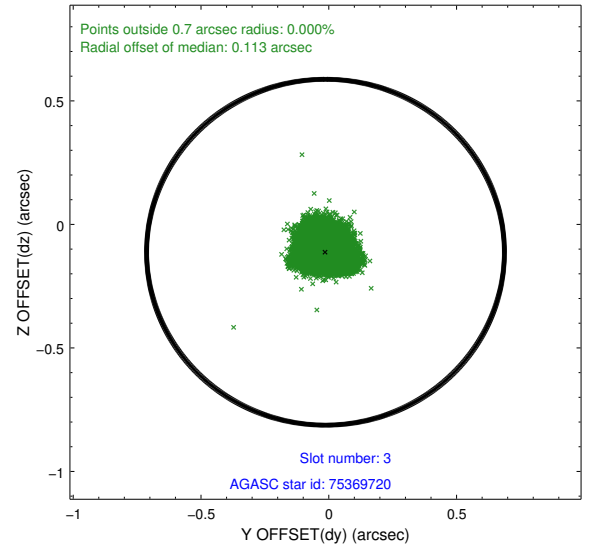
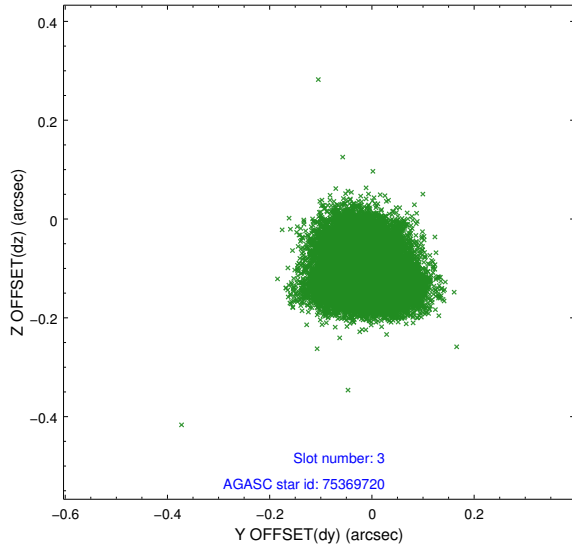


Slot Statistics

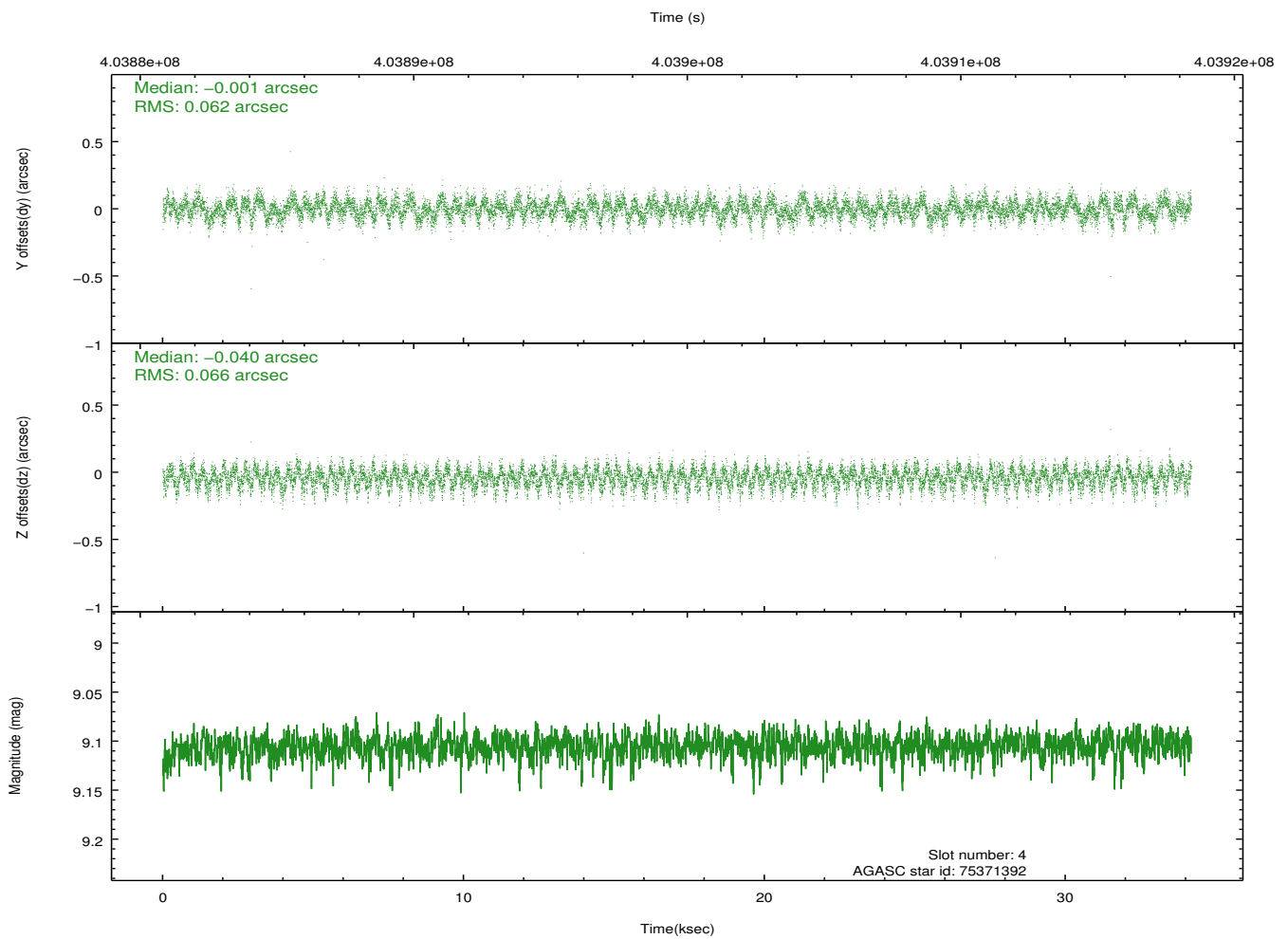
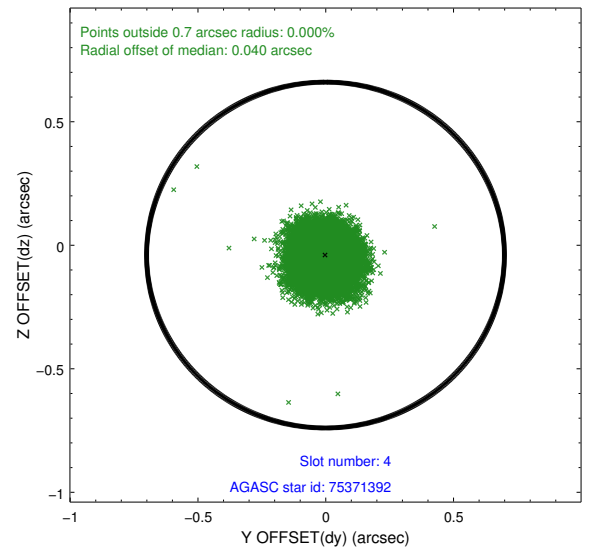
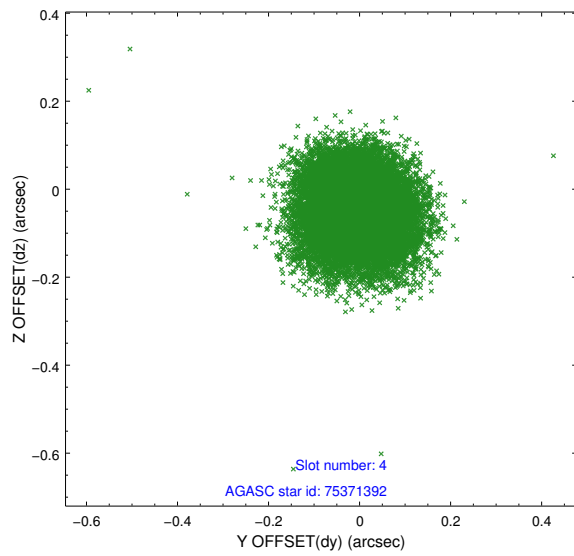
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.09	8337	0.050	-0.071	0.011	0.024	0.000000	0.000000	922.58	-924.91
1	FID	ACIS-I-2	7.03	8338	-0.231	-0.017	0.009	0.019	0.000000	0.000000	-771.99	-930.82
2	FID	ACIS-I-4	6.99	8337	0.083	0.156	0.009	0.018	0.000000	0.000000	2142.21	975.63
3	GUIDE	75369720	7.50	16676	-0.013	-0.113	0.074	0.118	344.676441	5.341958	961.75	1477.25
4	GUIDE	75371392	9.11	16667	-0.001	-0.040	0.096	0.155	344.222464	6.101415	-1993.83	301.65
5	GUIDE	75374432	9.45	16656	0.081	-0.060	0.106	0.171	344.455556	6.091644	-1827.90	1119.84
6	GUIDE	75374616	9.10	16576	0.020	0.207	0.106	0.167	344.086288	5.819694	-1069.16	-338.34
7	GUIDE	75375824	8.10	16670	-0.079	0.000	0.080	0.135	344.796884	6.150548	-1845.36	2361.51

2.4 Star Slots

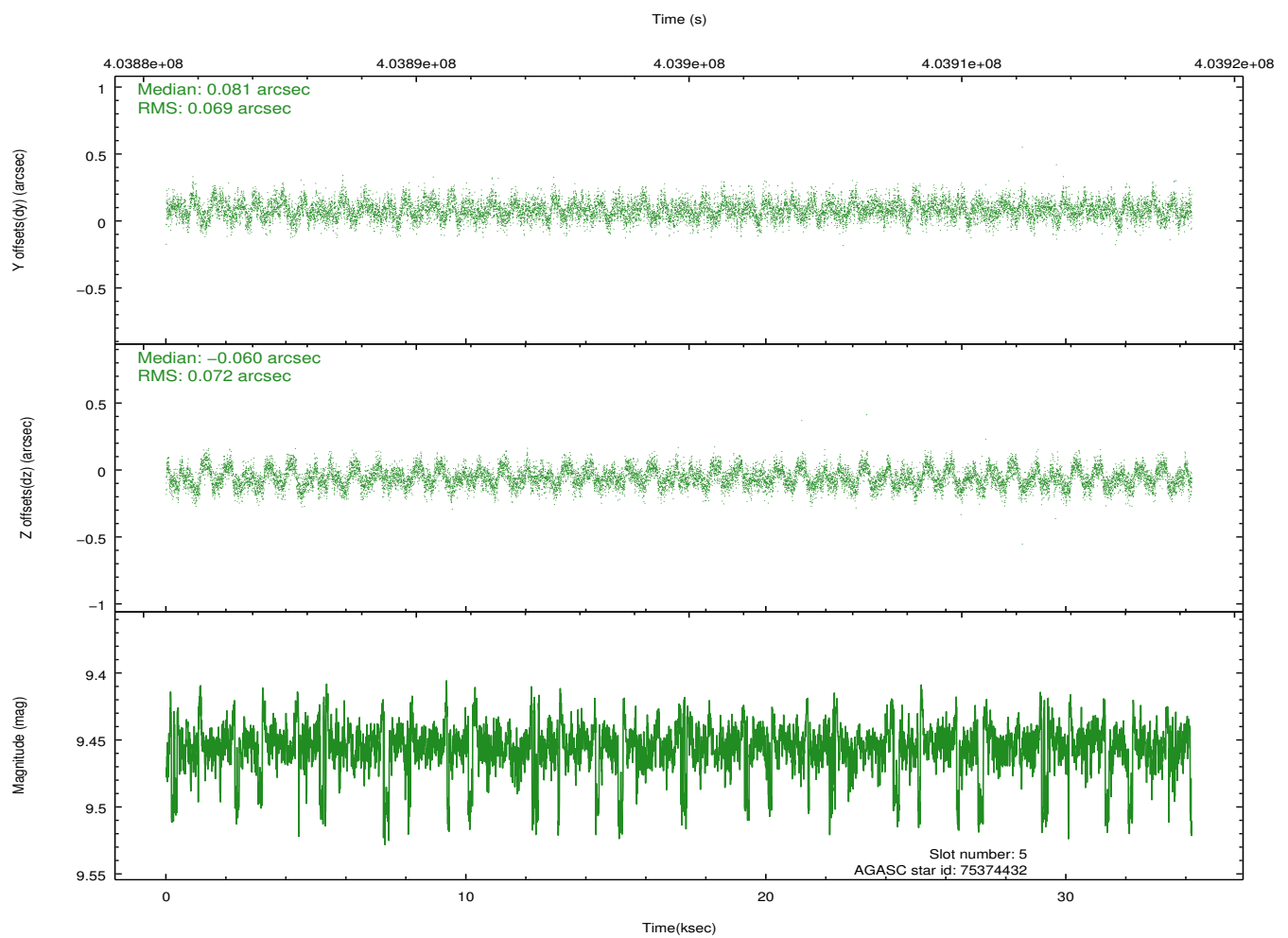
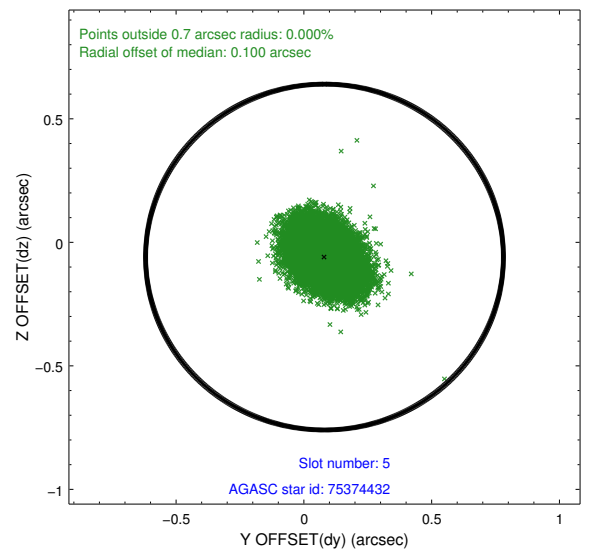
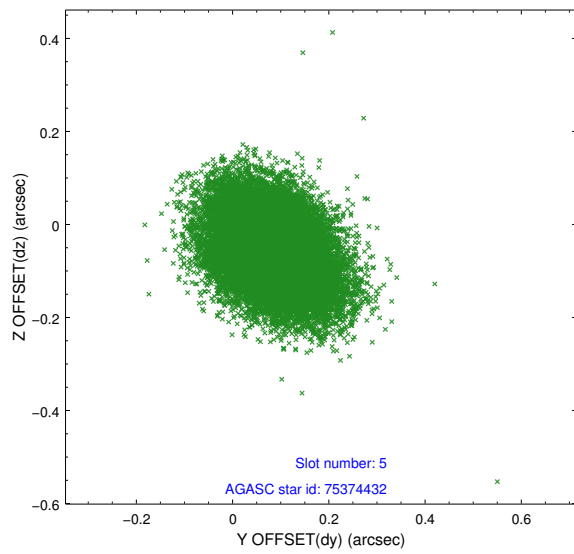
2.4.1 Slot 3



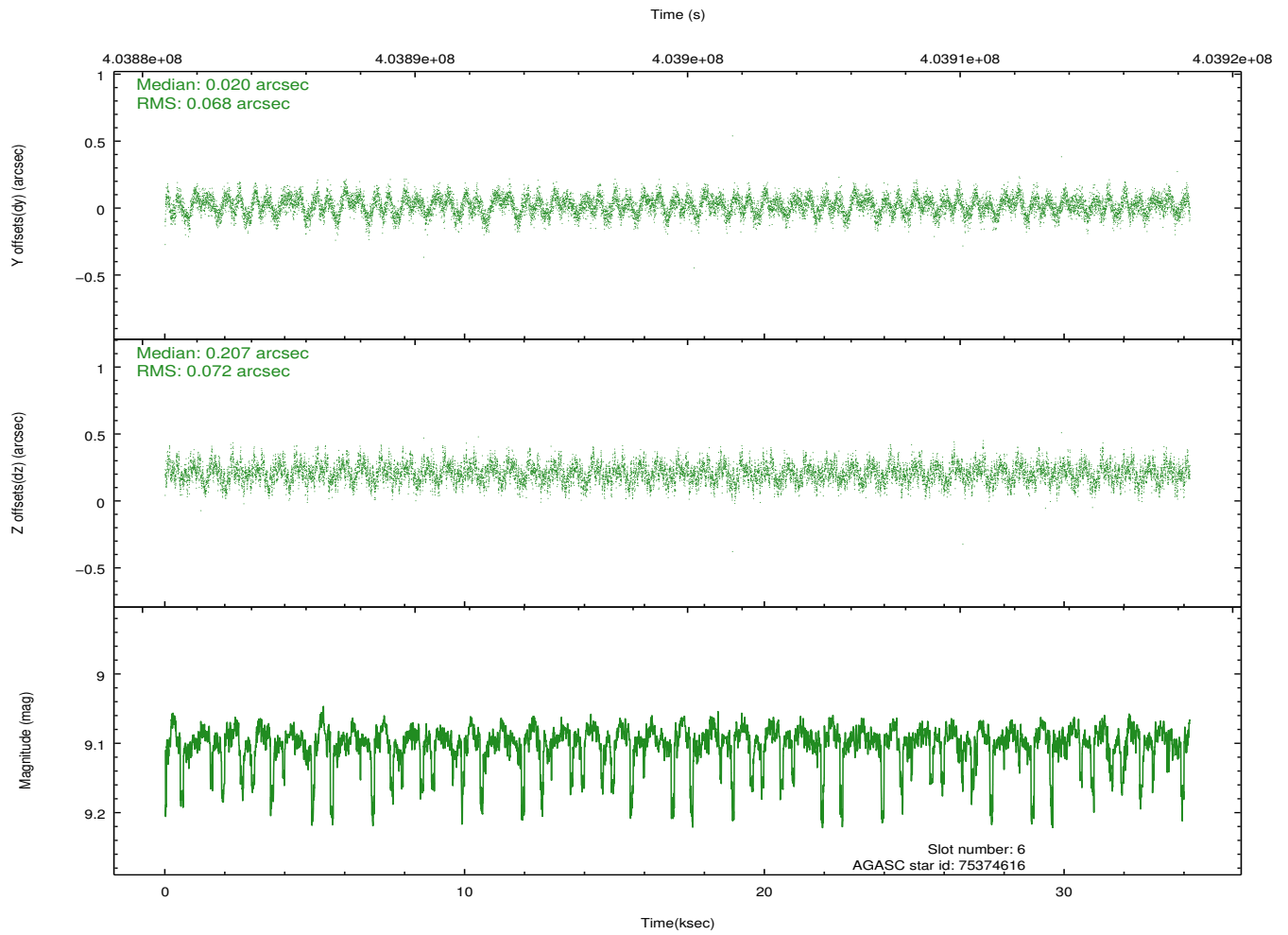
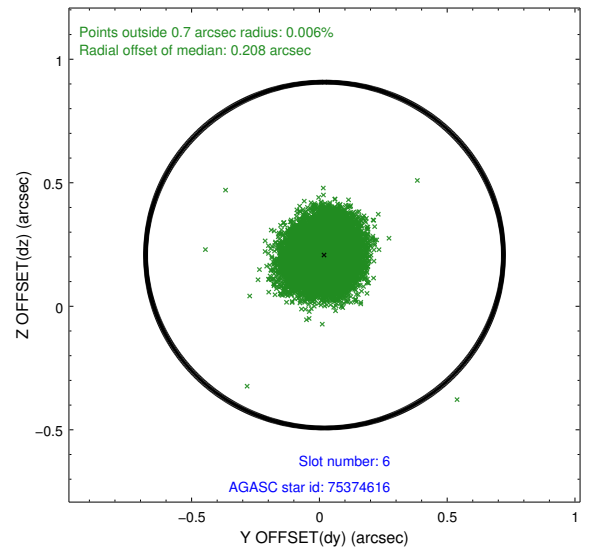
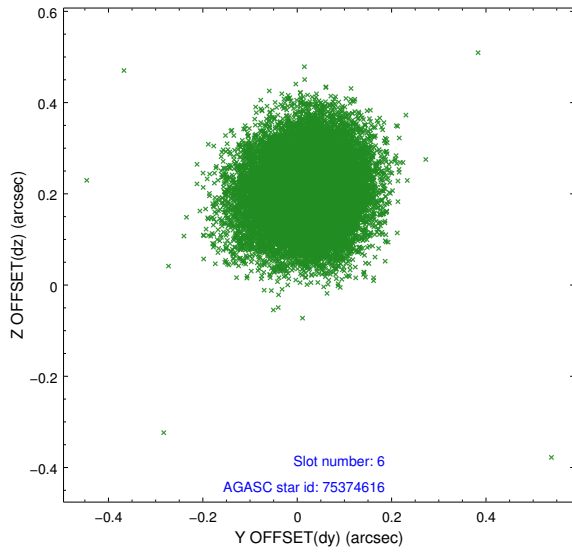
2.4.2 Slot 4



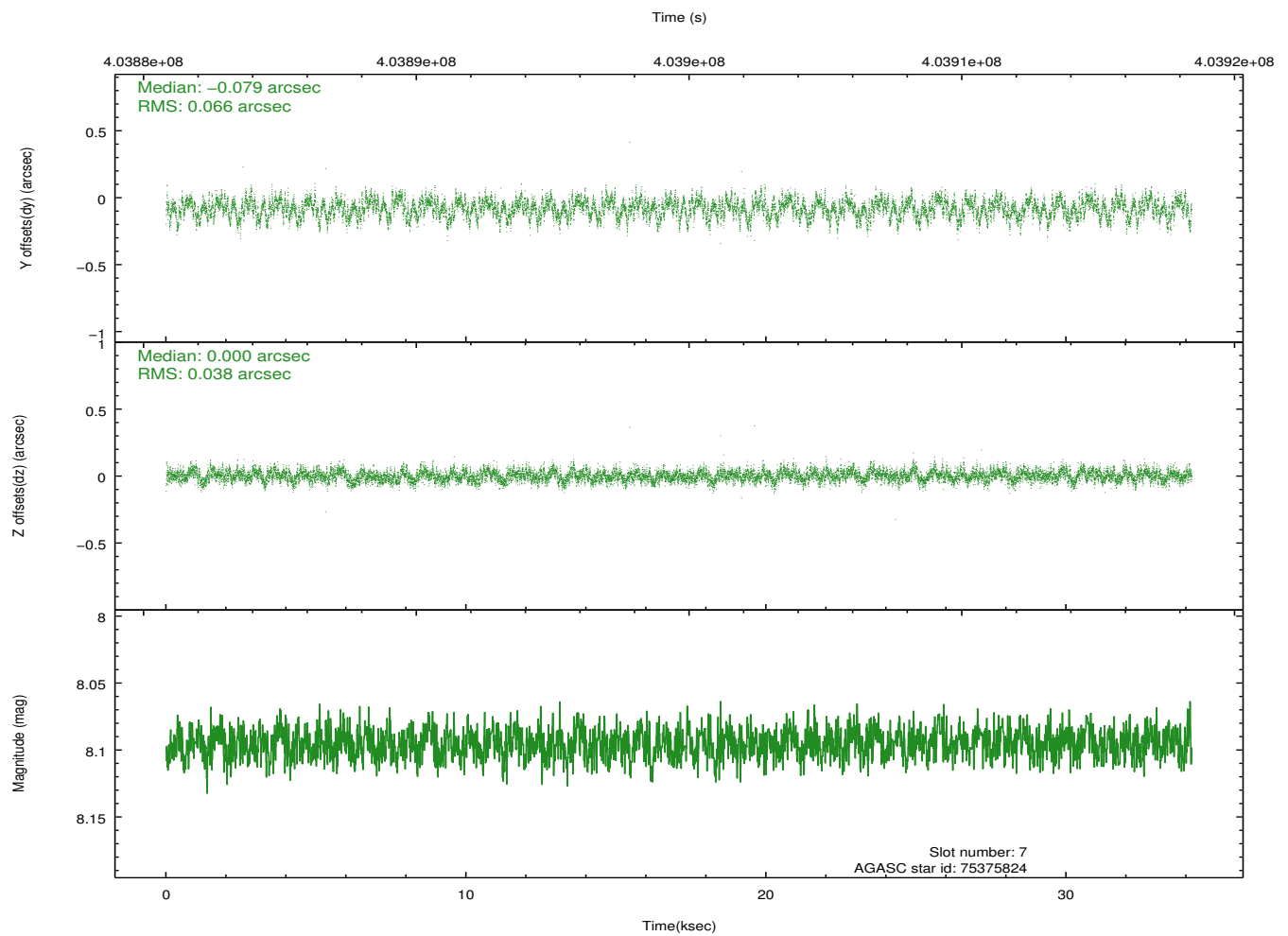
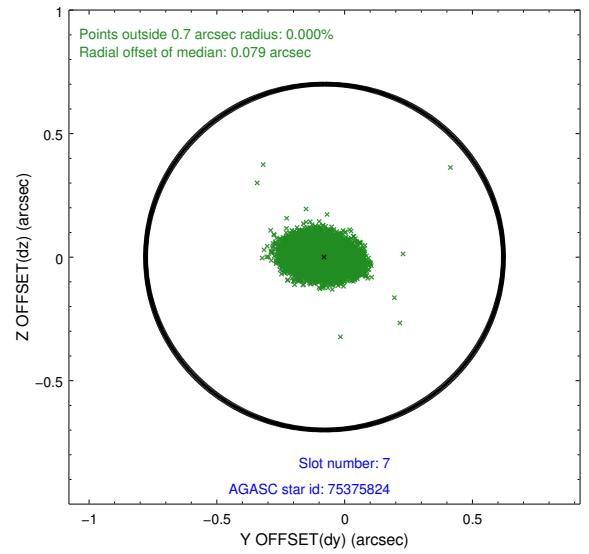
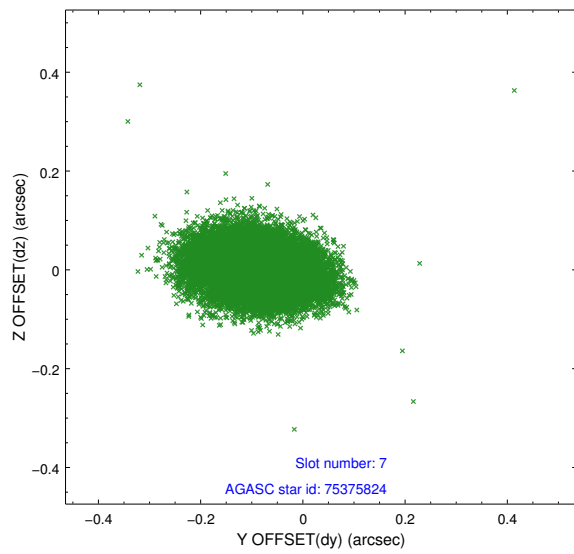
2.4.3 Slot 5



2.4.4 Slot 6

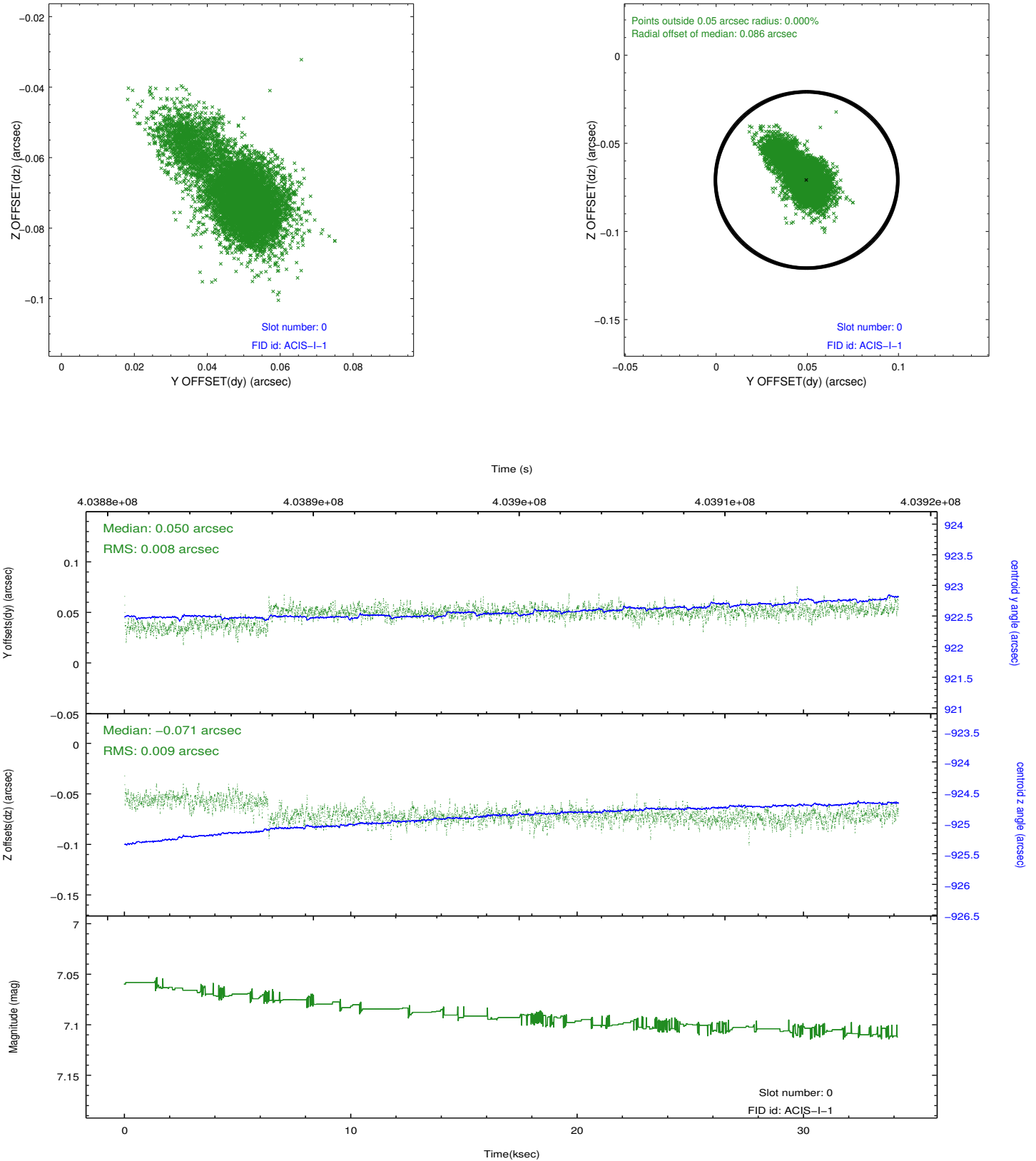


2.4.5 Slot 7

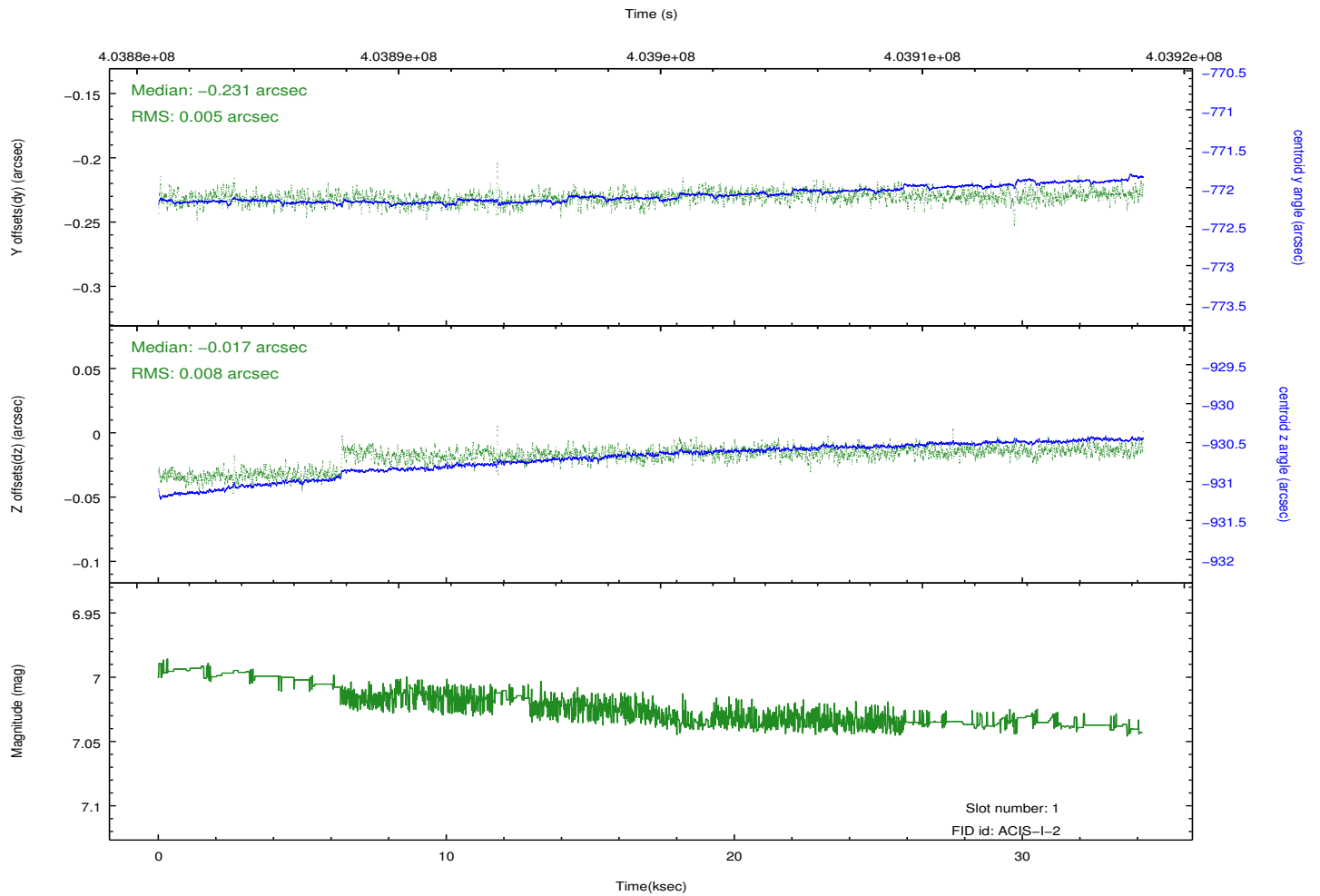
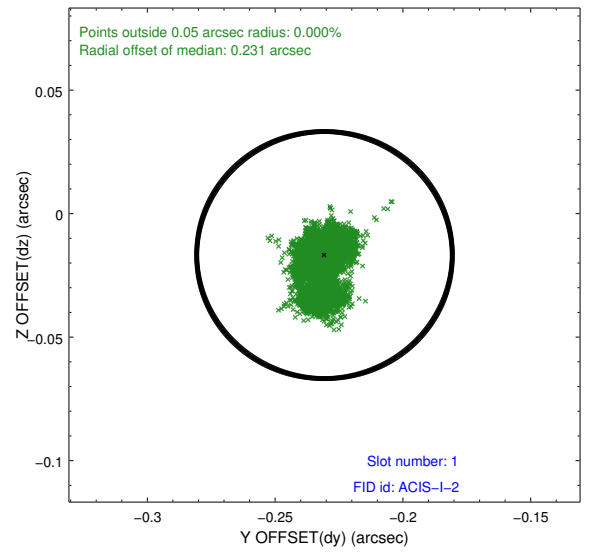
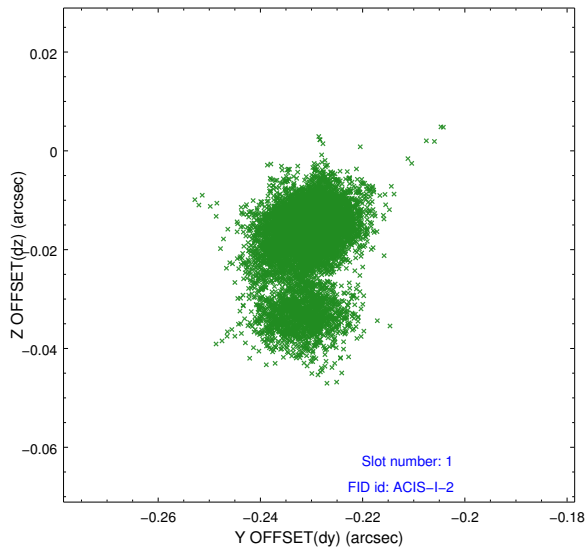


2.5 FID Slots

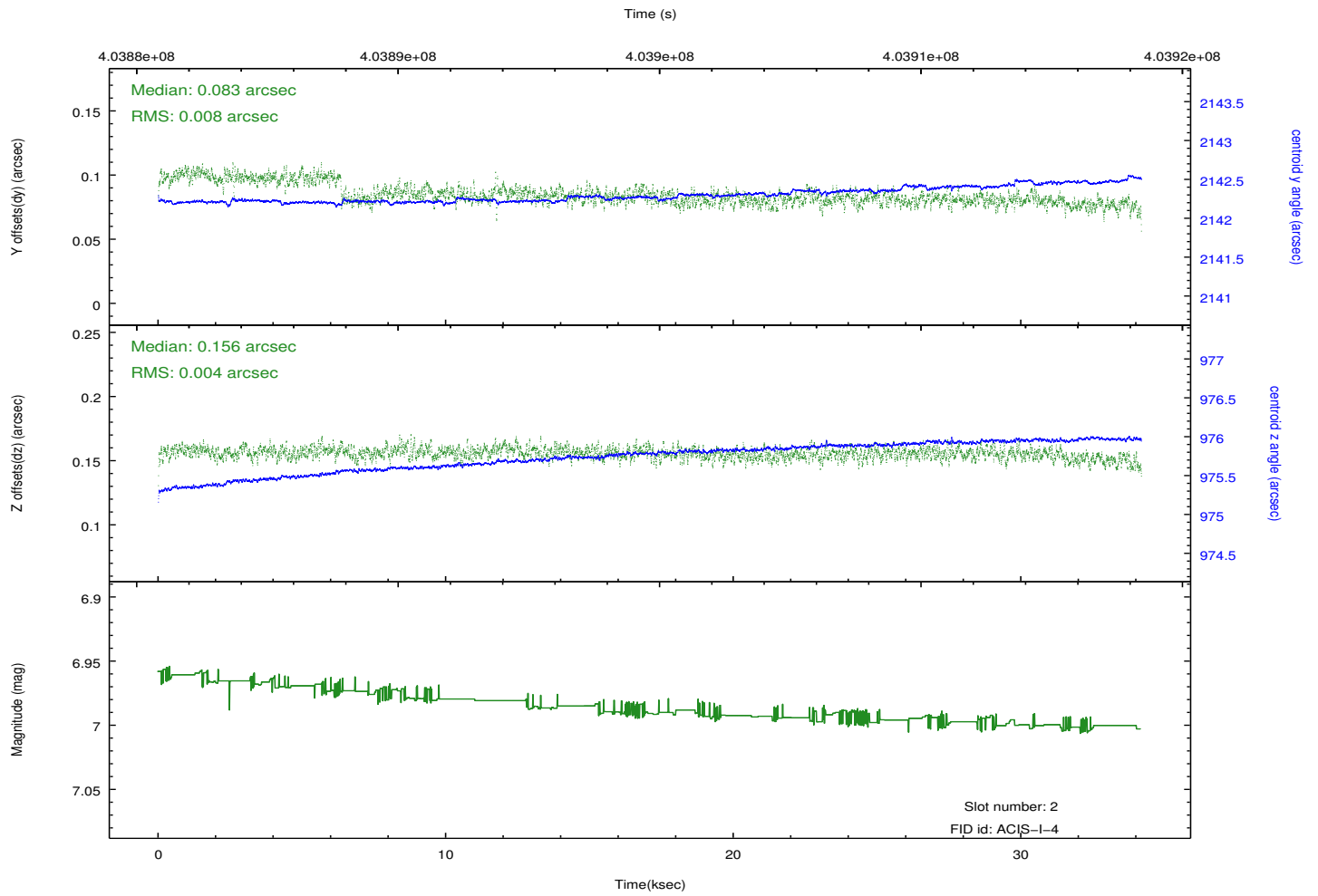
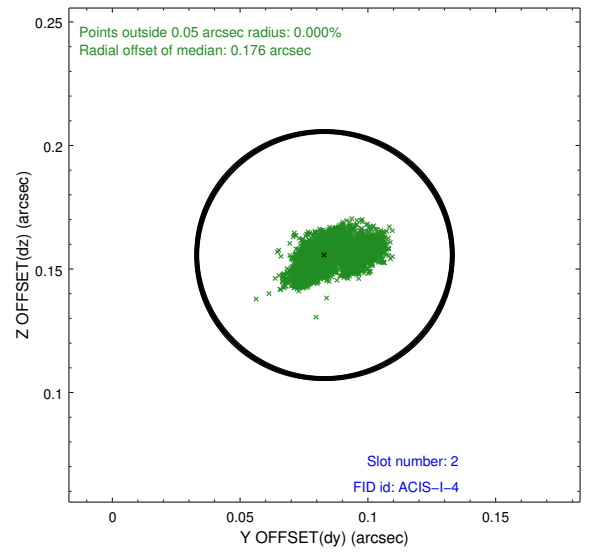
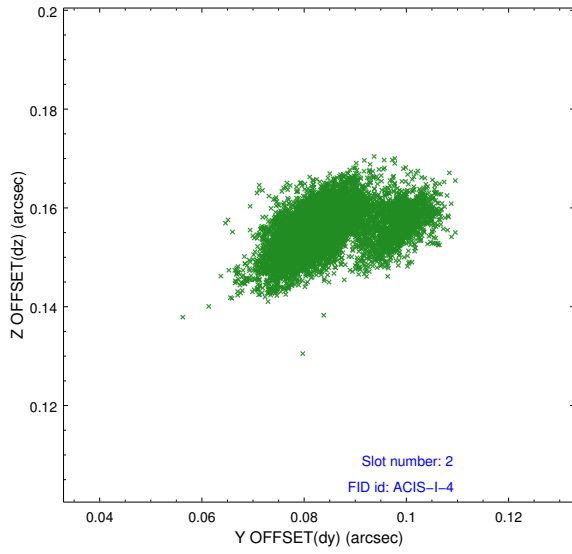
2.5.1 Slot 0



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)	2012.07.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.043375193834

A.2 Comments