

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 5752 - L2 Version 3
Chandra X-Ray Center

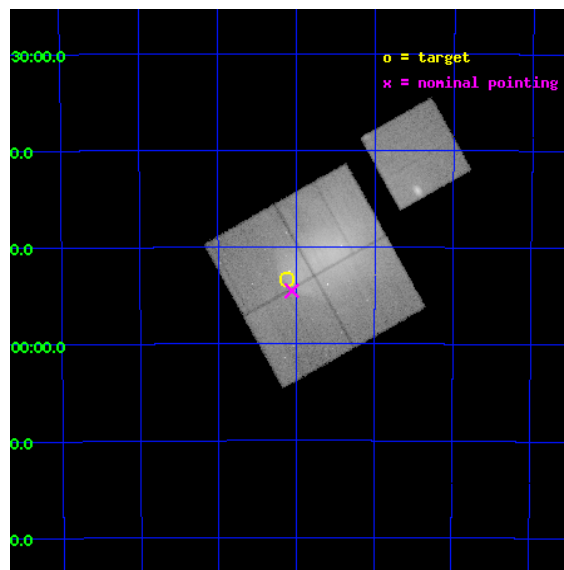
L2 Processing Date : Dec 24 2012

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

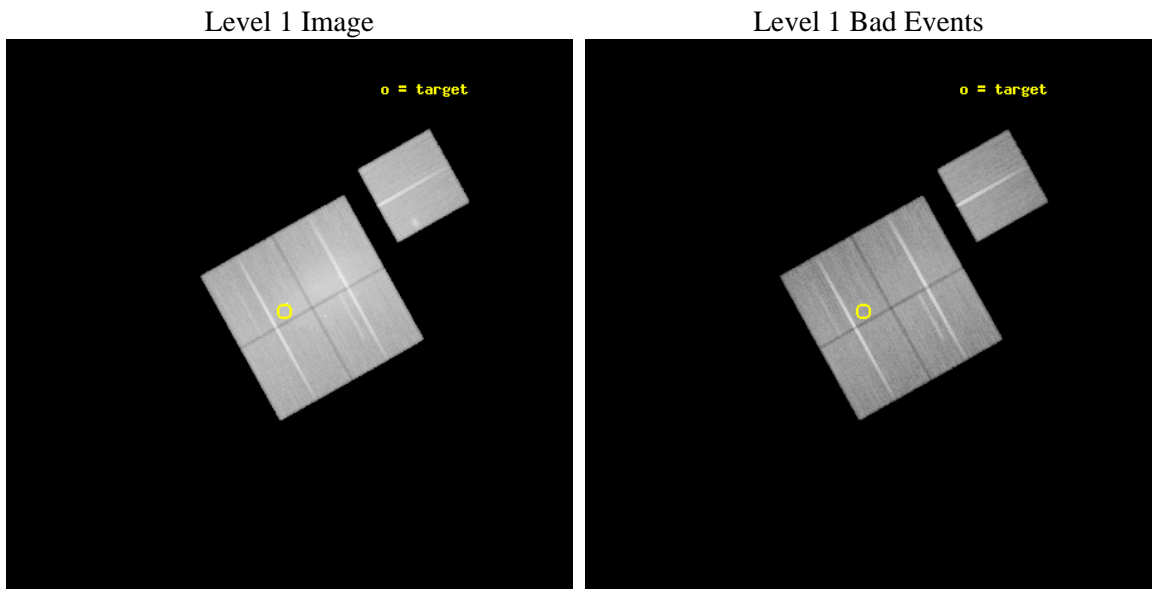
seq_num	800466	Sequence number
obs_id	5752	Observation id
title	A CHANDRA TREASURY OBSERVATION OF THE BEST EXAMPLE OF A CLUSTER COLD FRONT	Proposal title
observer	Dr. Alexey Vikhlinin	Principal investigator
object	Abell 3667	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	303.280208	Observer's specified target RA [deg]
dec_targ	-56.89	Observer's specified target Dec [deg]
ra_nom	303.26443297191	Nominal RA [deg]
dec_nom	-56.908918827428	Nominal Dec [deg]
roll_nom	60.784346034061	Nominal Roll [deg]
revision	3	Processing version of data
ontime	61203.217901736	Sum of GTIs [s]
livetime	60403.552802697	Livetime [s]
ontime0	61203.217901736	Sum of GTIs [s]
ontime1	61200.076931536	Sum of GTIs [s]
ontime2	61200.076901644	Sum of GTIs [s]
ontime3	61200.07689175	Sum of GTIs [s]
ontime6	61203.21791175	Sum of GTIs [s]
l2events	525502	Number of level 2 events



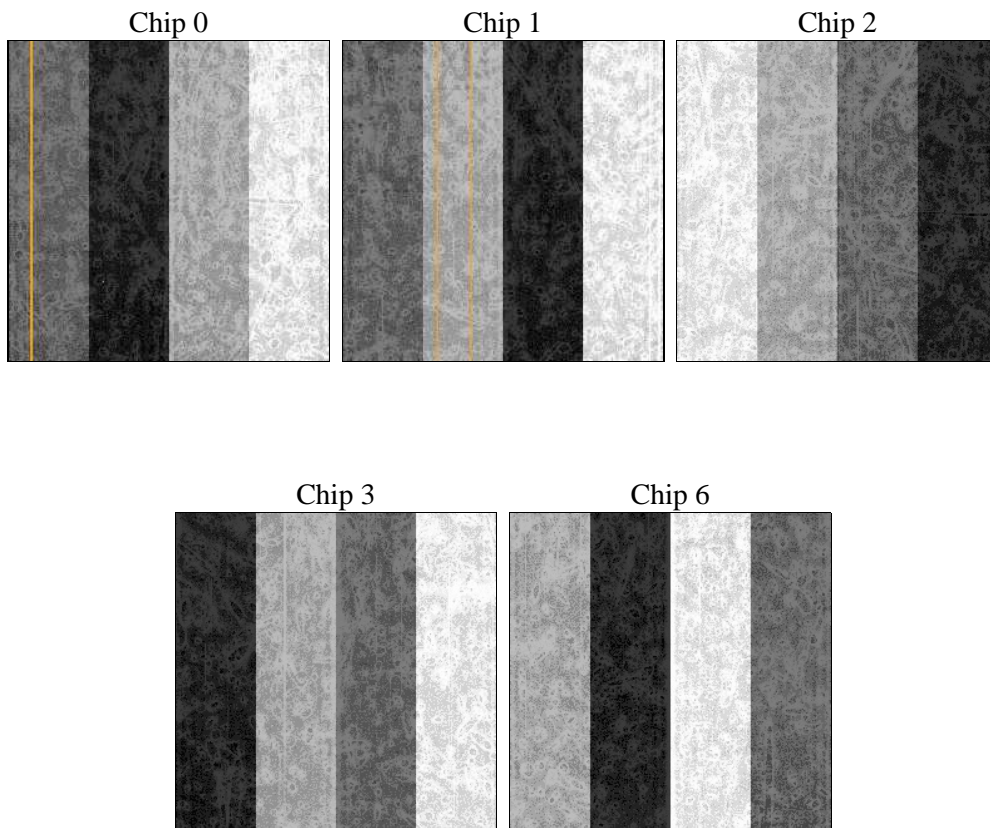
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	61160.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	61203.217901736	Sum of GTIs [s]
caldsver	4.5.5	 	ontime0	61203.217901736	Sum of GTIs [s]
date	2012-12-24T16:54:45	Date and time of file creation	ontime1	61200.076931536	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	61200.076901644	Sum of GTIs [s]
			ontime3	61200.07689175	Sum of GTIs [s]
			ontime6	61203.21791175	Sum of GTIs [s]
			l1events	2301908	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	426613	398974	581202	462894	432225
rejected events	323703	321908	370775	350324	351420
rejected %	75%	80%	63%	75%	81%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	65505	42897	154867	75786	47676
	15%	10%	26%	16%	11%
grade 1 events	480	302	1007	584	324
	0%	0%	0%	0%	0%
grade 2 events	15765	13035	25438	15093	12509
	3%	3%	4%	3%	2%
grade 3 events	6376	5839	9333	6460	5683
	1%	1%	1%	1%	1%
grade 4 events	6145	5707	9582	6310	5611
	1%	1%	1%	1%	1%
grade 5 events	14022	14912	13444	15805	15317
	3%	3%	2%	3%	3%
grade 6 events	9127	9589	11219	8925	9328
	2%	2%	1%	1%	2%
grade 7 events	309193	306693	356312	333931	335777
	72%	76%	61%	72%	77%

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	303.265314	303.264432971911	Subarray requested	NONE	NONE
[deg] Pointing Dec	-56.936317	-56.90891882742849	Alternating exposures requested	N	N
[deg] Pointing Roll	60.576416	60.78434603406136	[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	-243.592463	-243.5843520998312			
[mm] SIM translation stage offset	10	9.991899096901562			
[s] Observation start time (MET)	234946923.184000	234945541.01059			
Observation start date	2005-06-12T07:00:59	2005-06-12T06:39:01			
[s] Observation end time (MET)	235008083.184000	235008797.86347			
Observation end date	2005-06-13T00:00:19	2005-06-13T00:13:17			
Read mode	TIMED	TIMED			

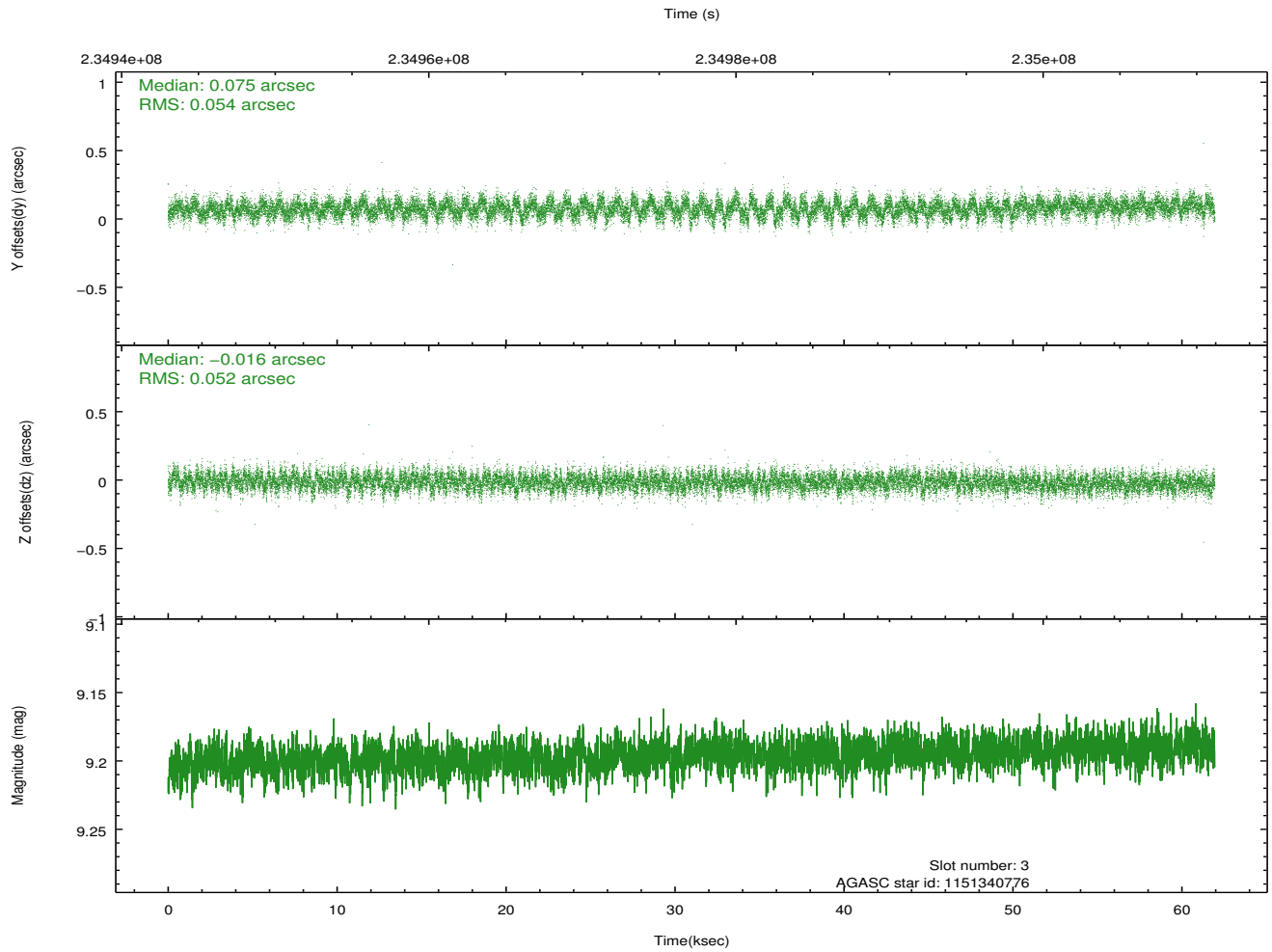
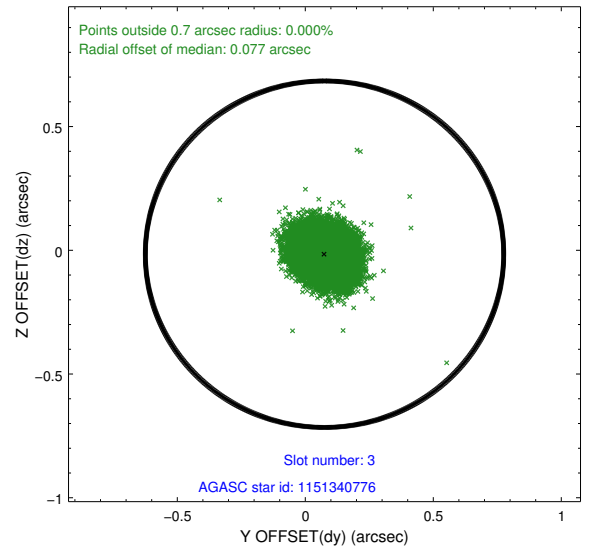
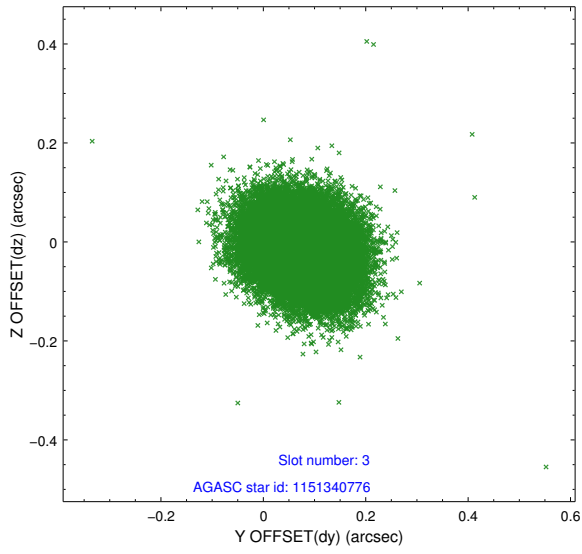
2.3 Aspect

Slot Statistics

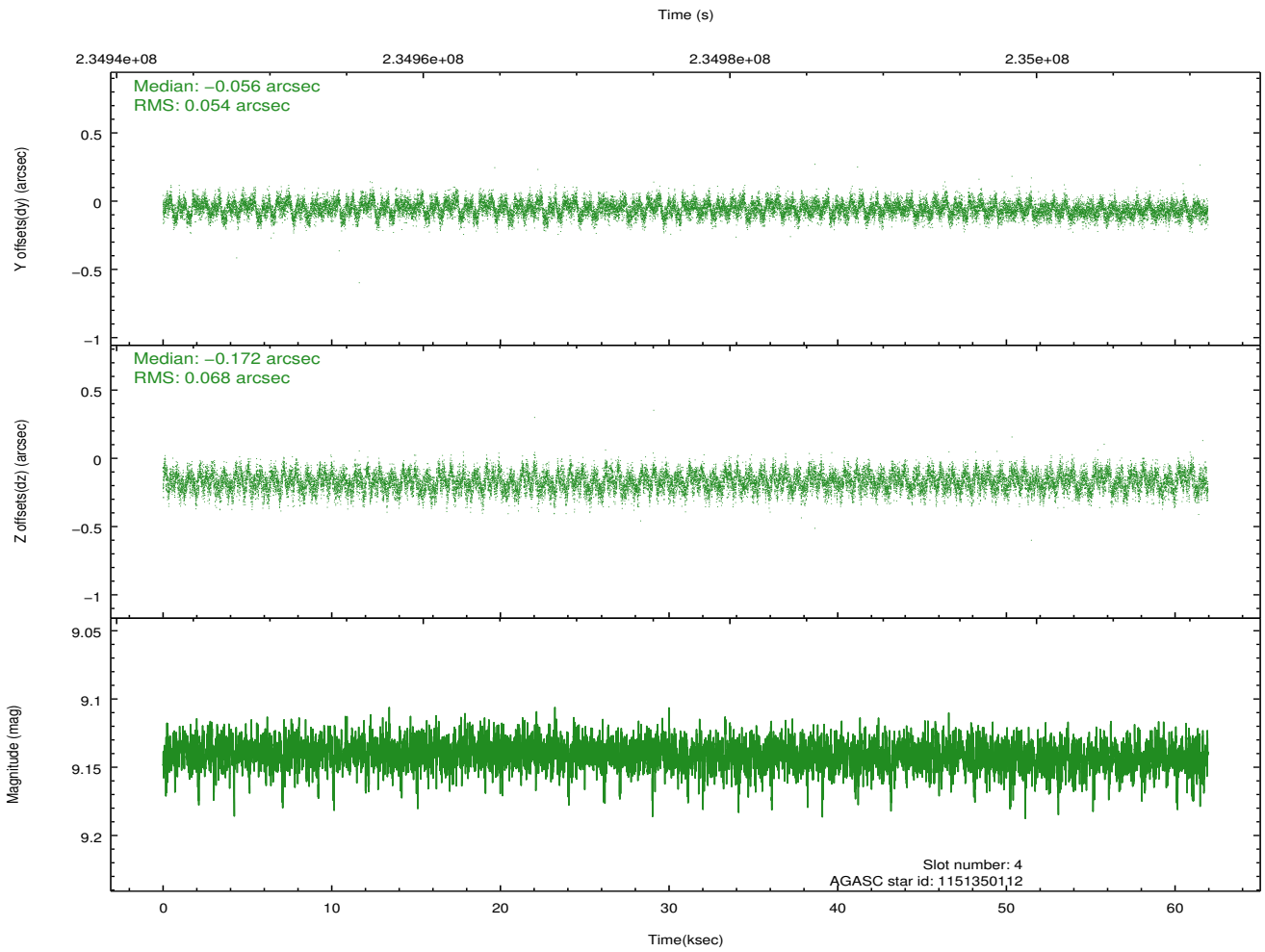
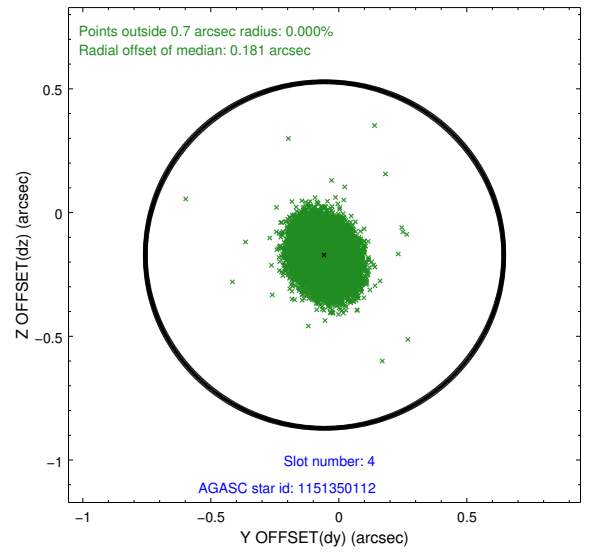
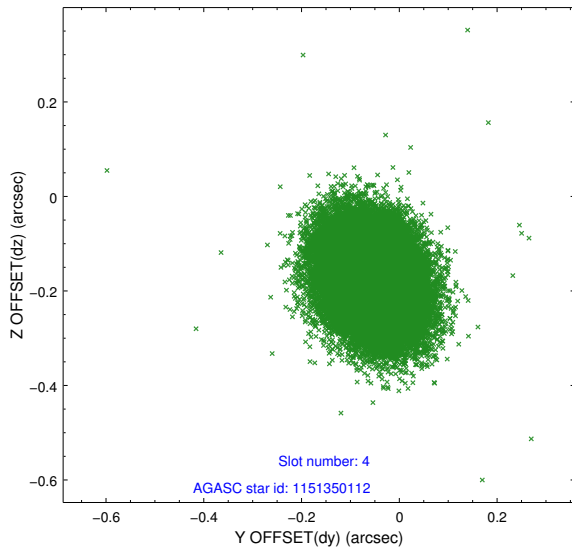
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.28	15111	-0.001	0.033	0.014	0.029	0.000000	0.000000	932.20	-627.13
1	FID	ACIS-I-5	7.24	15113	-0.122	0.035	0.009	0.016	0.000000	0.000000	-1816.06	1270.38
2	FID	ACIS-I-6	7.23	15110	0.031	0.002	0.013	0.026	0.000000	0.000000	397.81	1914.80
3	GUIDE	1151340776	9.20	30197	0.075	-0.016	0.079	0.128	302.320116	-57.331751	-2153.09	894.28
4	GUIDE	1151350112	9.14	30212	-0.056	-0.172	0.093	0.147	303.241865	-56.846660	258.51	198.89
5	GUIDE	1151472992	9.63	30193	0.006	0.160	0.088	0.145	303.531180	-57.237033	-689.09	-983.11
6	GUIDE	1151471240	9.45	30213	0.195	-0.036	0.098	0.161	303.425045	-57.451391	-1462.98	-1180.52
7	GUIDE	1151467856	9.65	30198	-0.222	0.061	0.108	0.181	303.931677	-56.775960	1143.01	-864.10

2.4 Star Slots

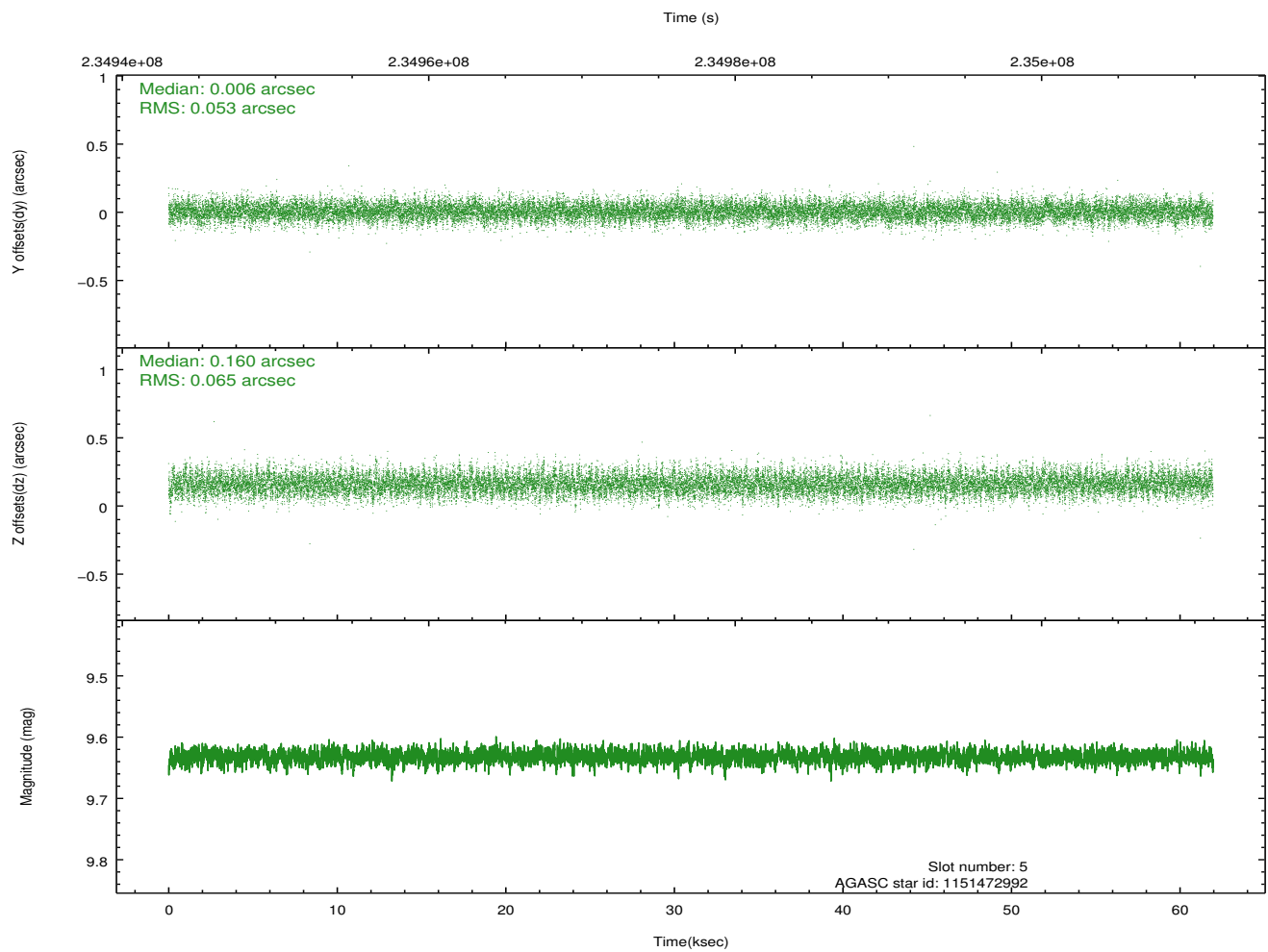
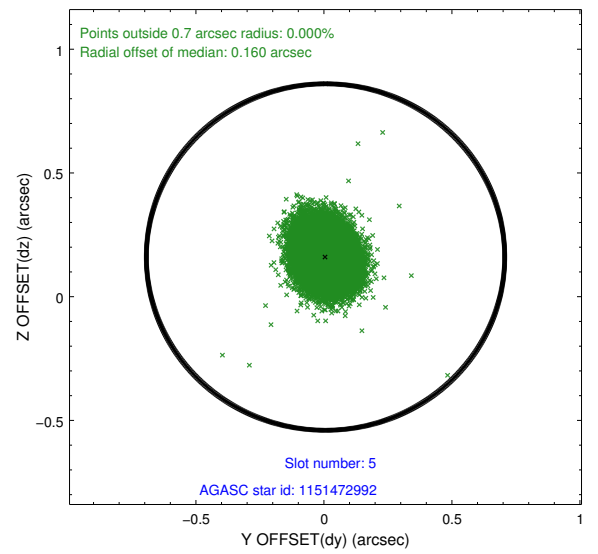
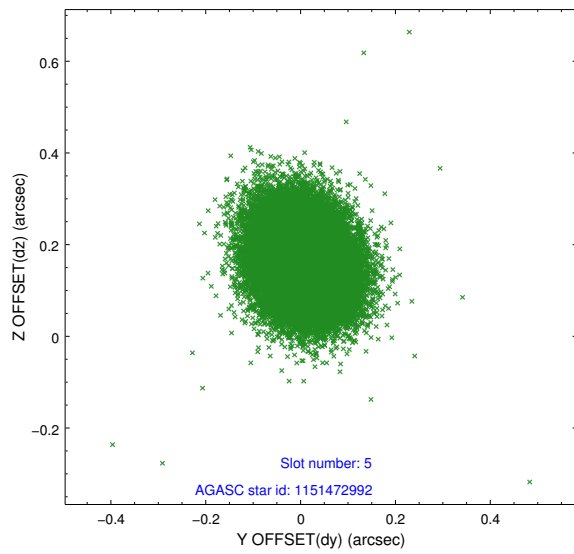
2.4.1 Slot 3



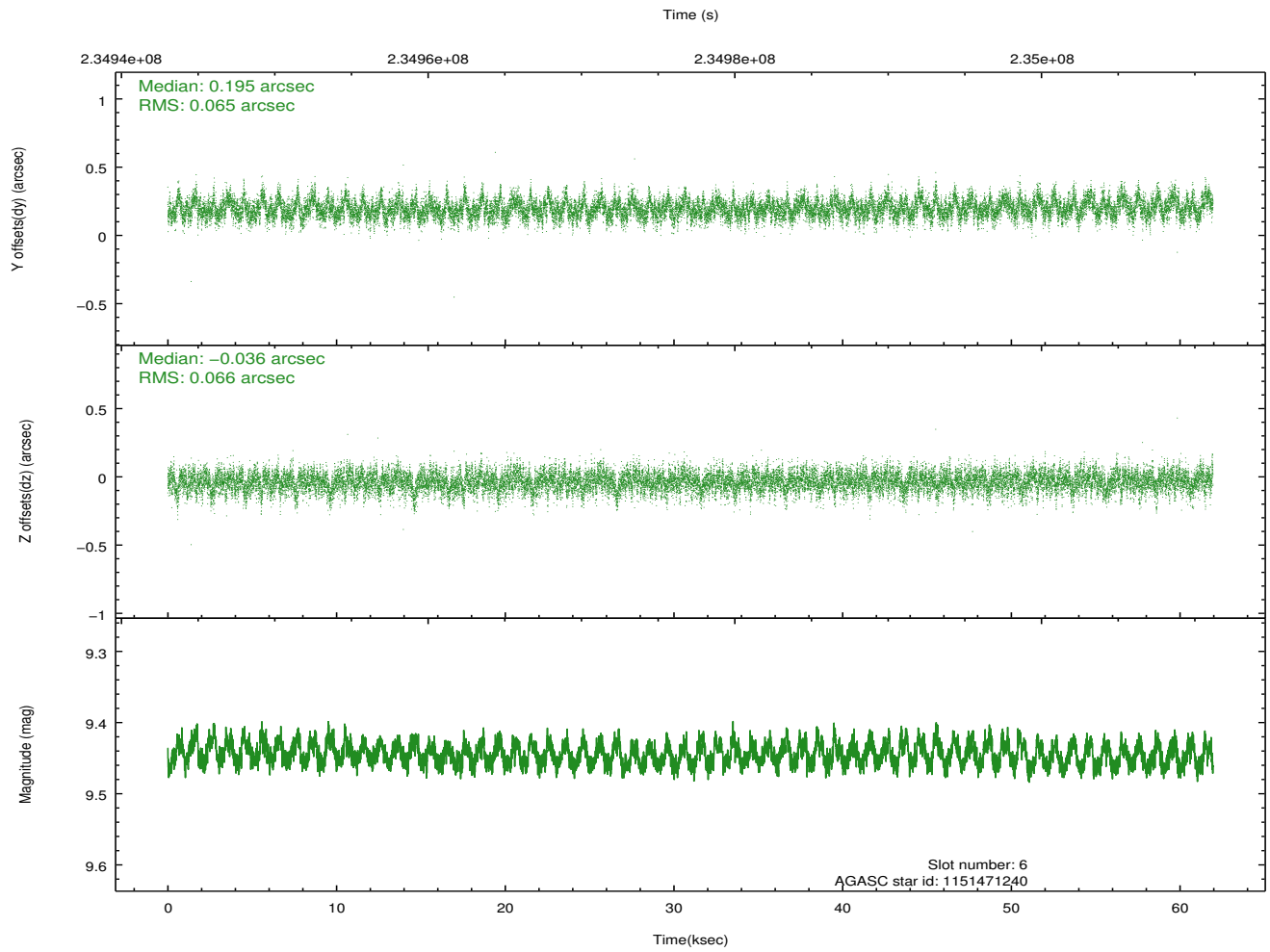
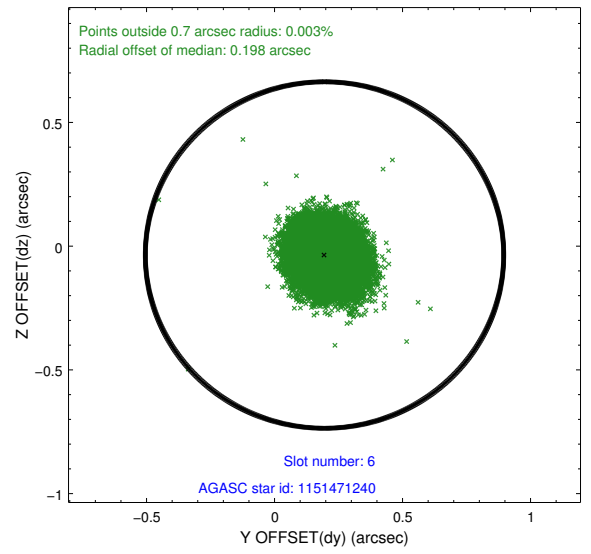
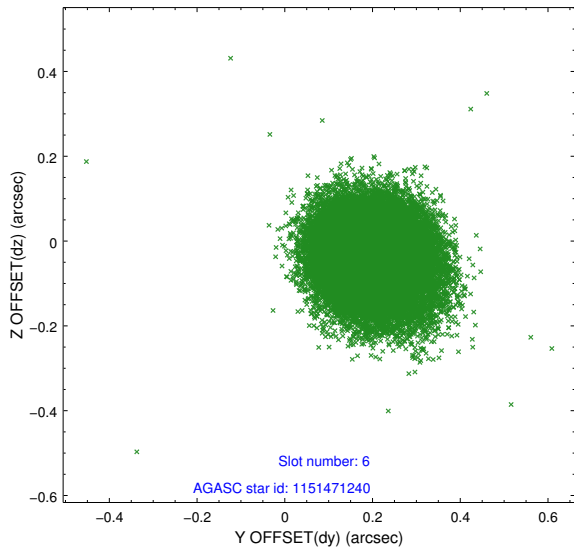
2.4.2 Slot 4



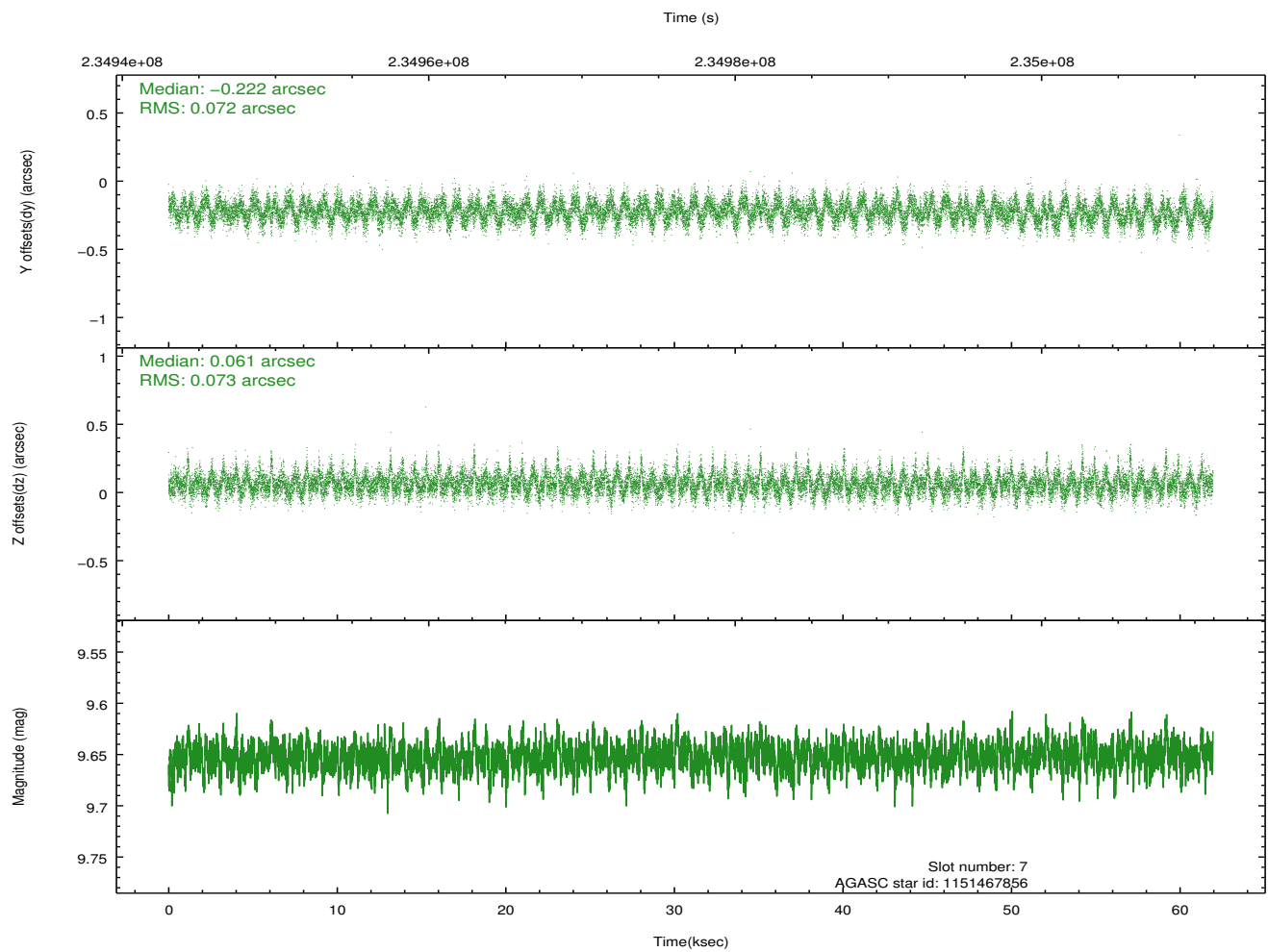
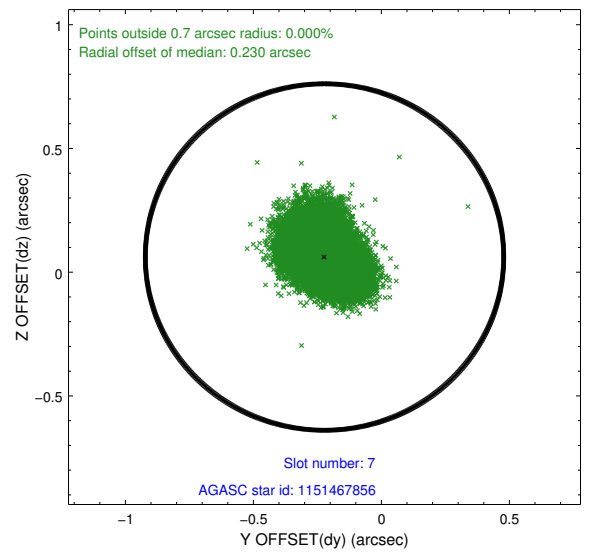
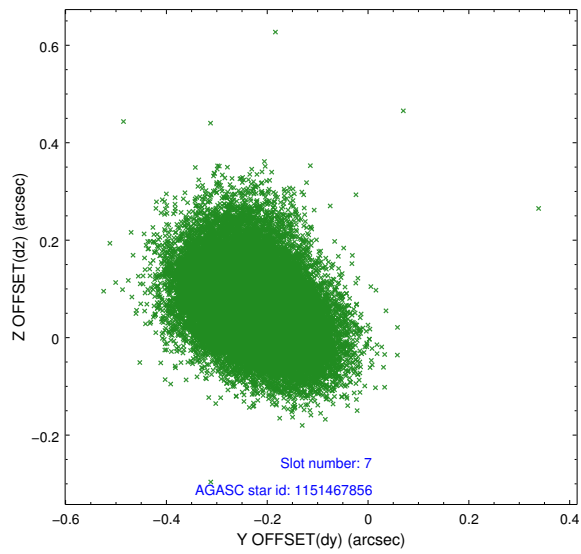
2.4.3 Slot 5



2.4.4 Slot 6

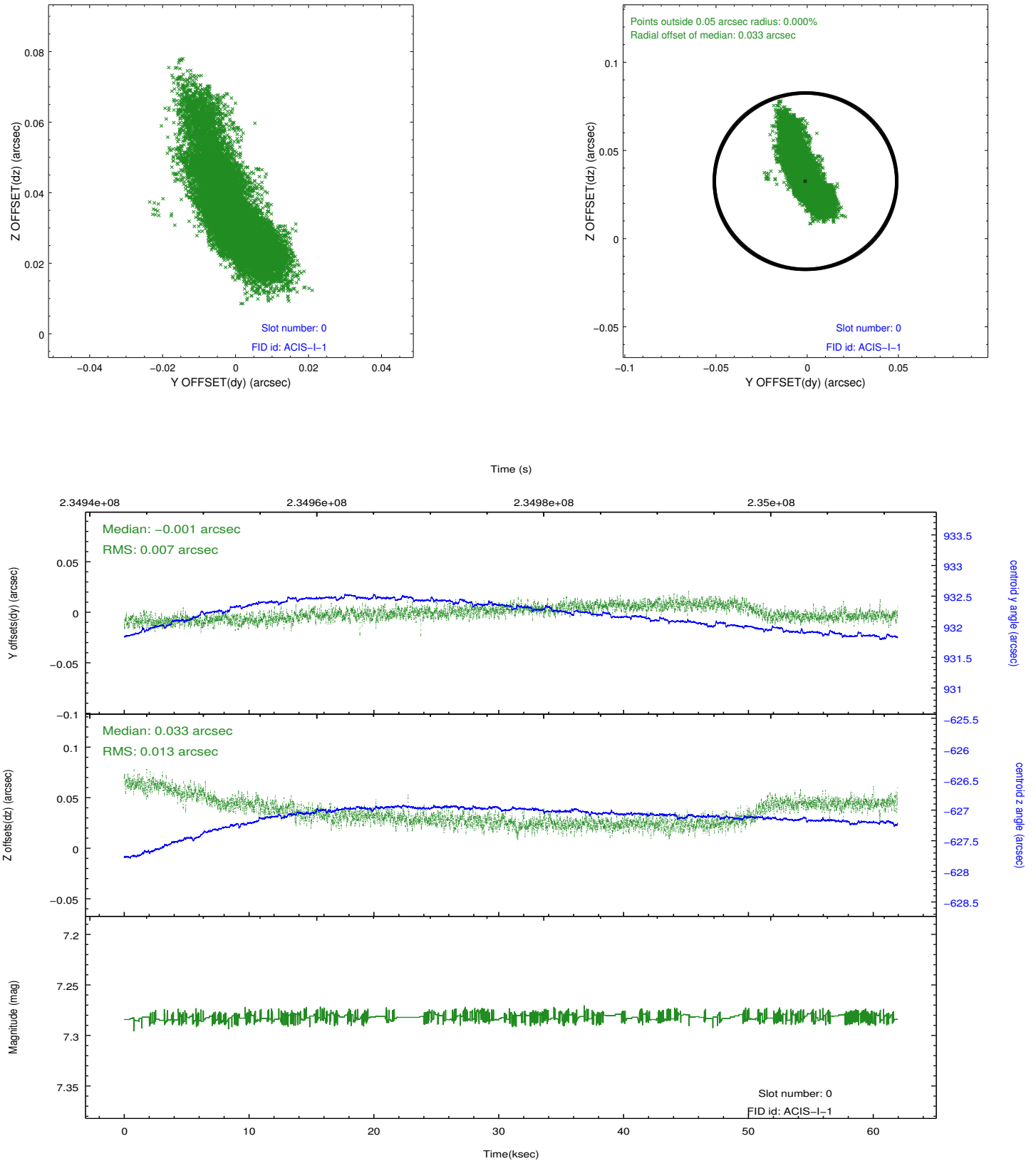


2.4.5 Slot 7

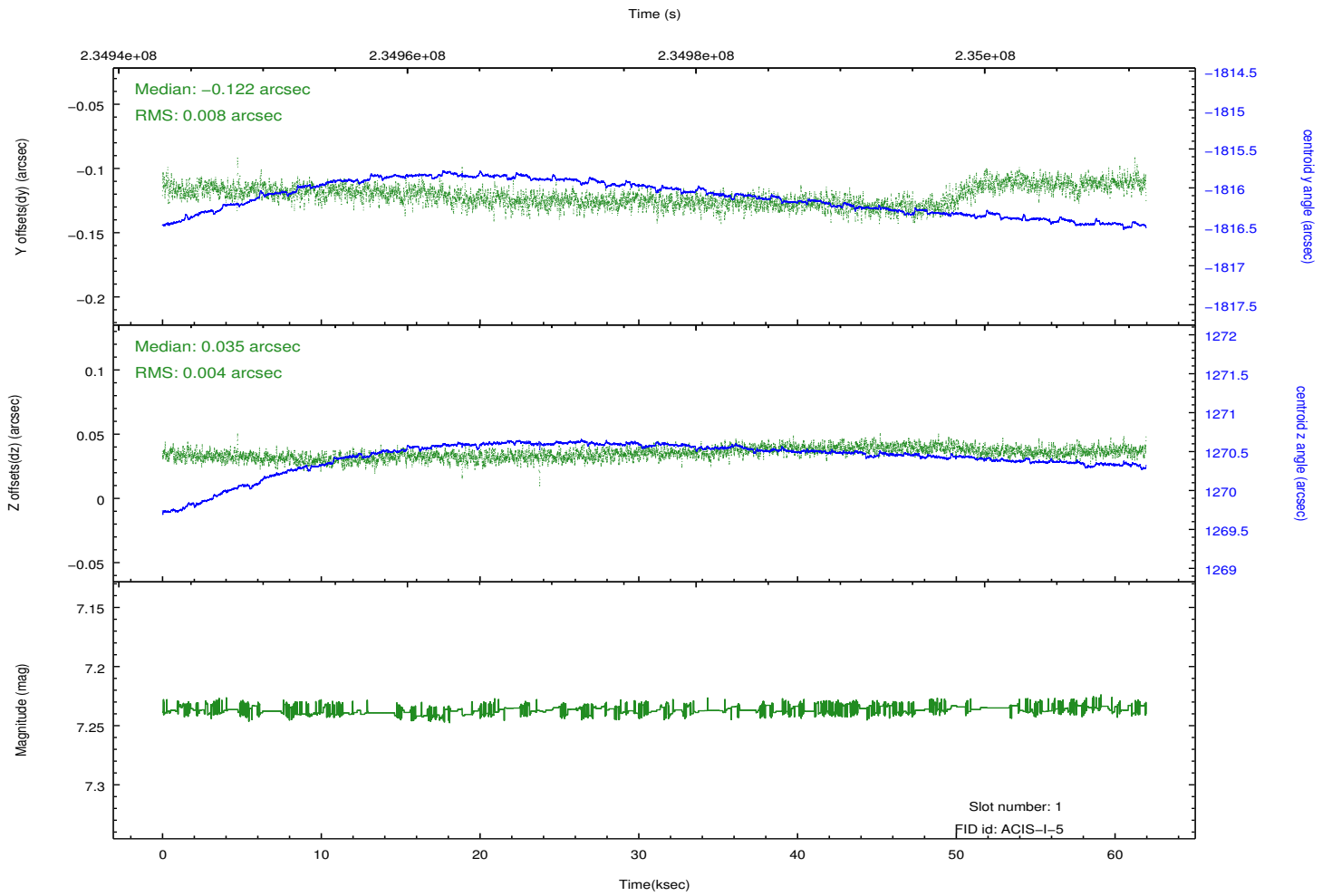
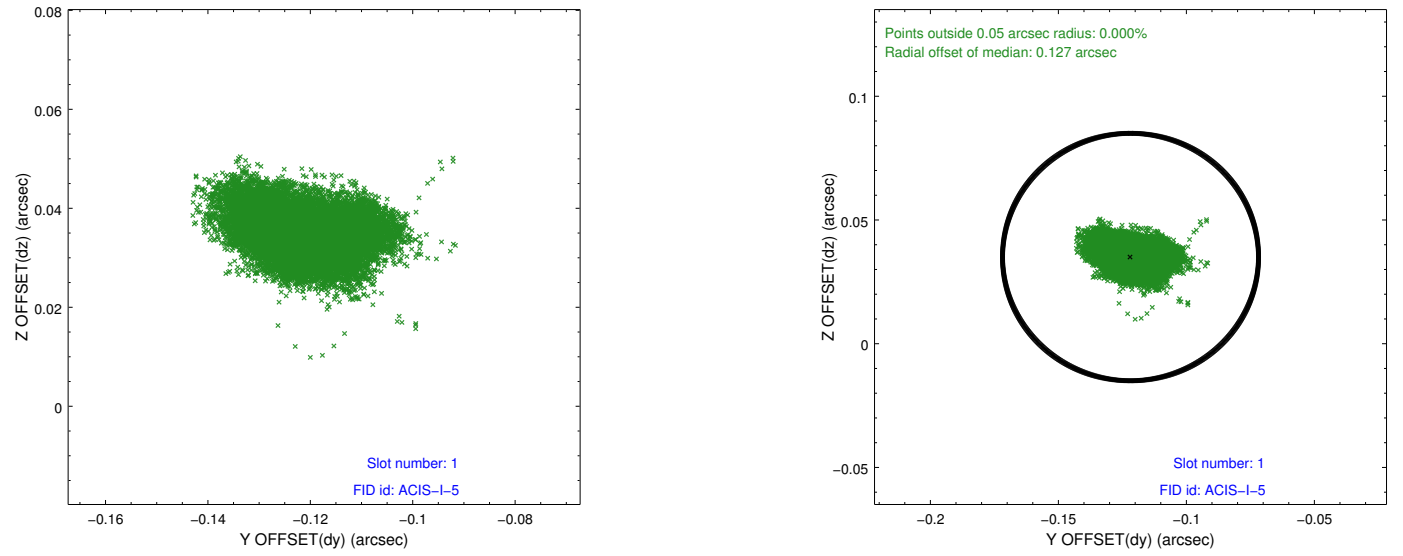


2.5 FID Slots

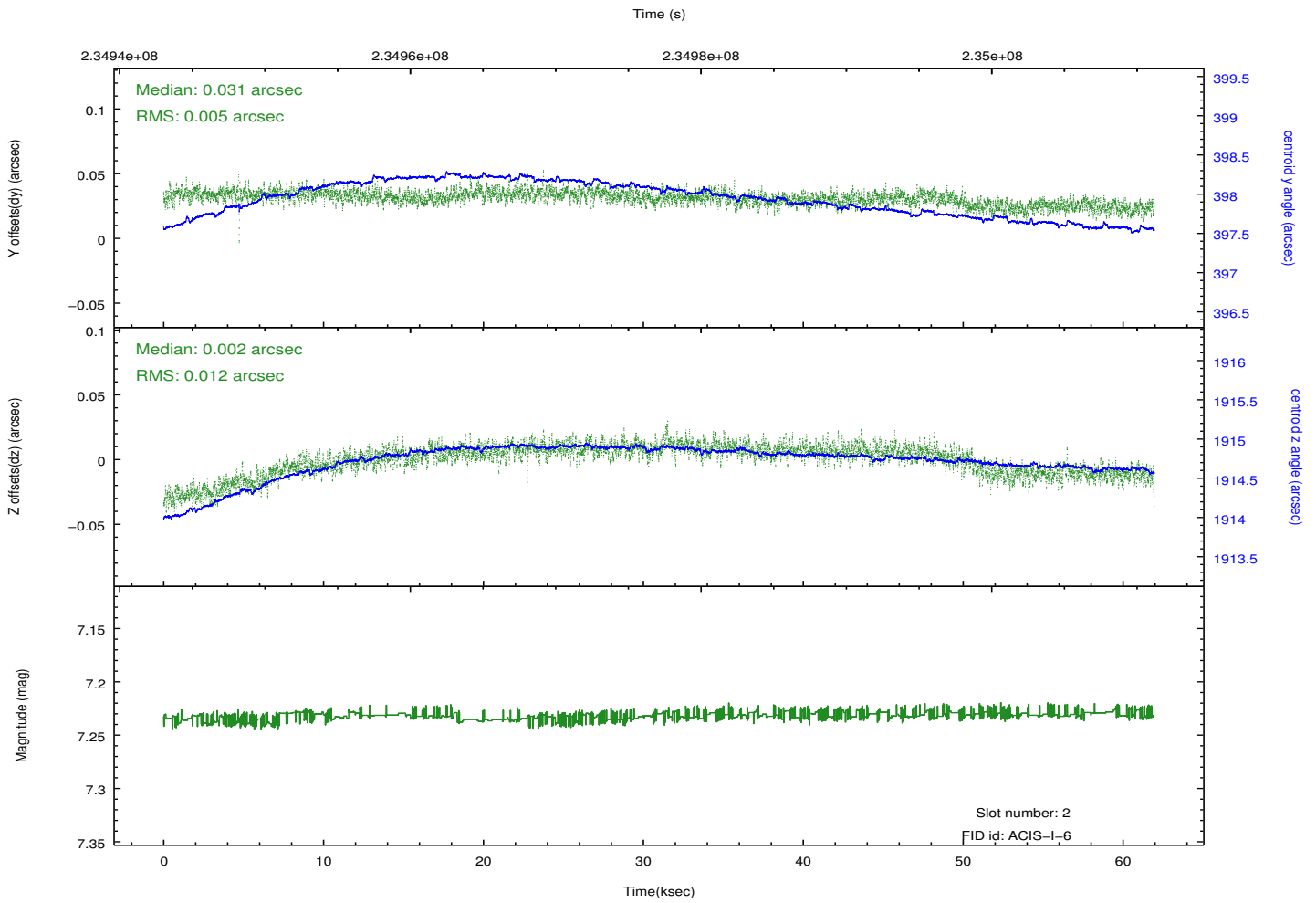
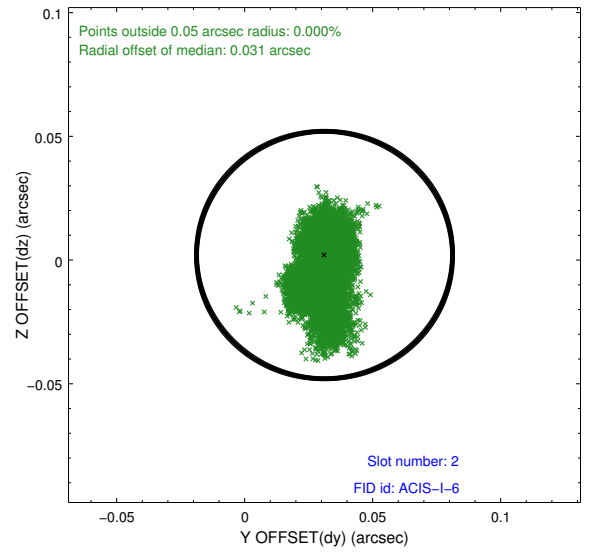
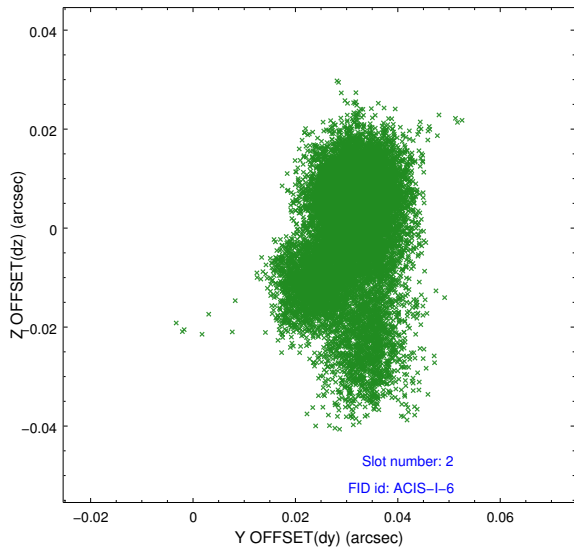
2.5.1 Slot 0



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)	2013.01.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	61.20321

A.2 Comments