

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18594 - L2 Version 1
Chandra X-Ray Center

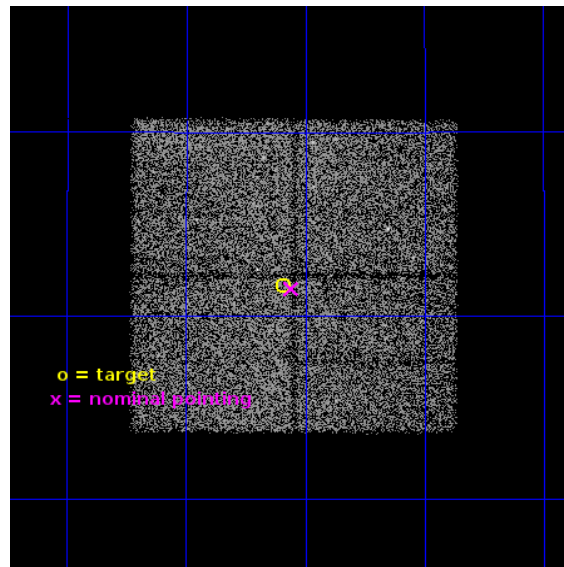
L2 Processing Date : May 4 2016

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

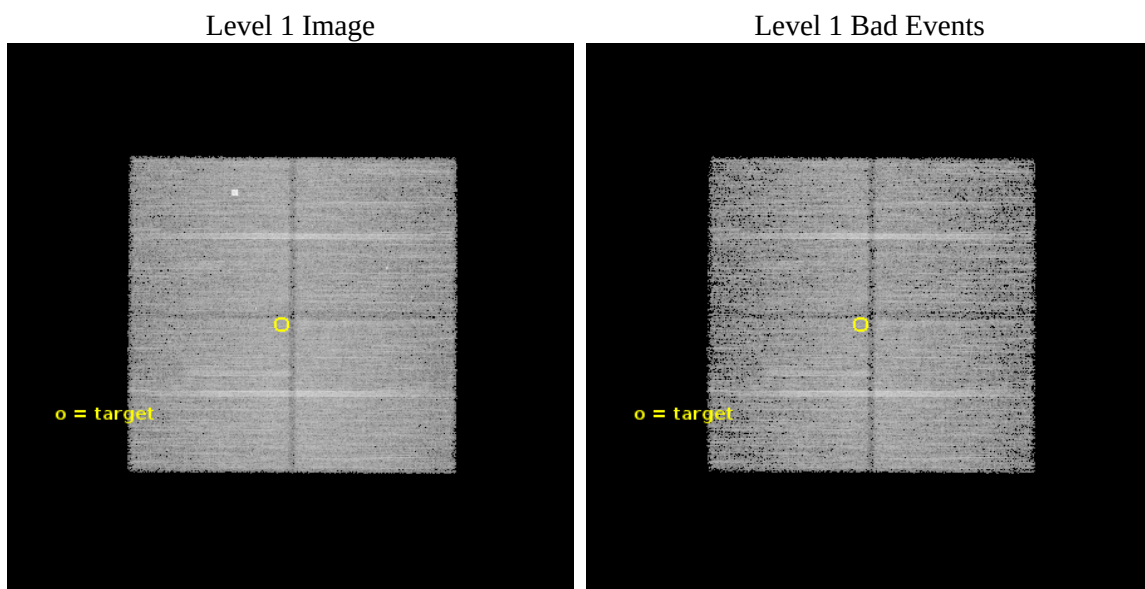
seq_num	901327	Sequence number
obs_id	18594	Observation id
title	An extended moderate-depth contiguous layer of the Chandra Bootes field -- further pointings	Proposal title
observer	Ralph Kraft	Principal investigator
object	Bootes Cy17-12	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.52262	Observer's specified target RA [deg]
dec_targ	33.693806	Observer's specified target Dec [deg]
ra_nom	217.51458990834	Nominal RA [deg]
dec_nom	33.691278741555	Nominal Dec [deg]
roll_nom	180.21316872544	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24076.808170438	Sum of GTIs [s]
livetime	23762.226946603	Livetime [s]
ontime0	24076.685050488	Sum of GTIs [s]
ontime1	24076.726090431	Sum of GTIs [s]
ontime2	24076.767130494	Sum of GTIs [s]
ontime3	24076.808170438	Sum of GTIs [s]
l2events	53781	Number of level 2 events



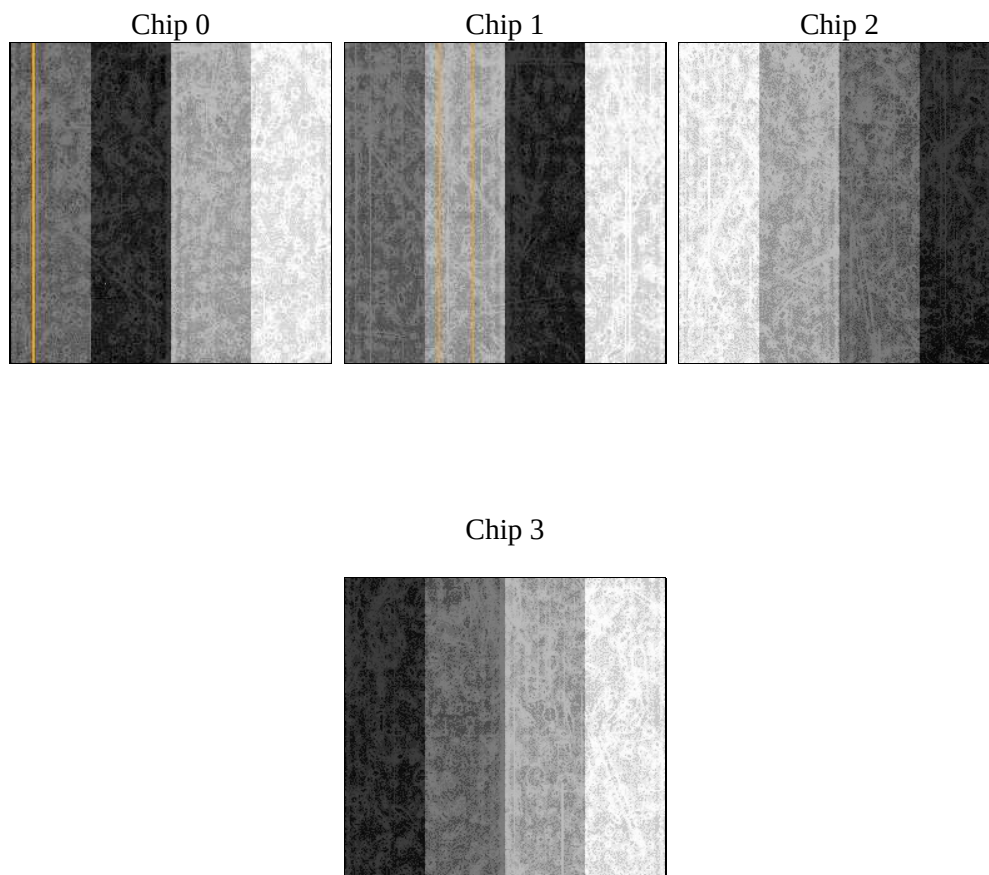
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	24076.808170438	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	24076.685050488	Sum of GTIs [s]
date	2016-05-04T10:06:23	Date and time of file creation	ontime1	24076.726090431	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	24076.767130494	Sum of GTIs [s]
			ontime3	24076.808170438	Sum of GTIs [s]
			l1events	582836	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	138274	142713	152823	149026
rejected events	122125	122641	137840	133800
rejected %	88%	85%	90%	89%

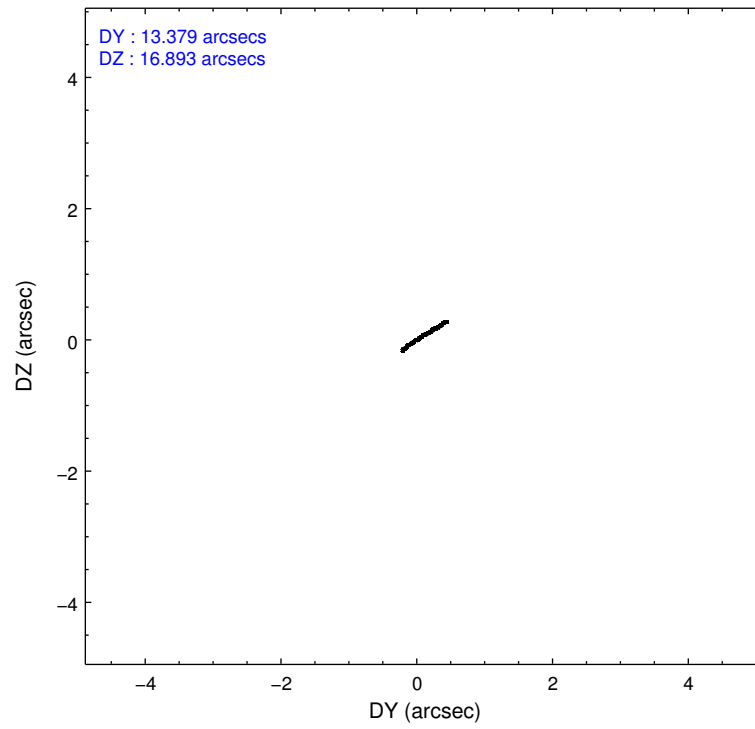
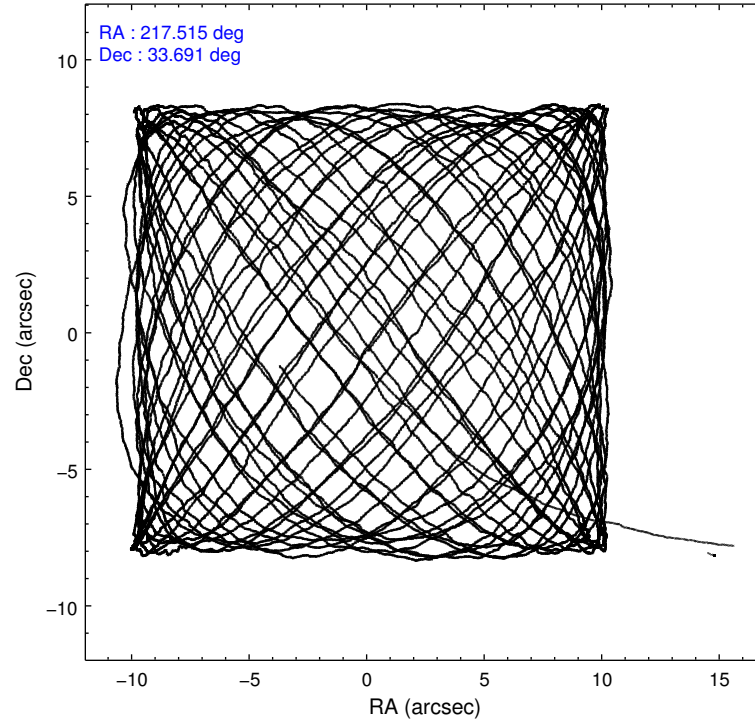
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	5484	8203	5176	5106
	3%	5%	3%	3%
grade 1 events	62	61	81	80
	0%	0%	0%	0%
grade 2 events	3967	4321	3592	3383
	2%	3%	2%	2%
grade 3 events	1609	1718	1588	1617
	1%	1%	1%	1%
grade 4 events	1577	1639	1564	1715
	1%	1%	1%	1%
grade 5 events	6194	6498	5949	7001
	4%	4%	3%	4%
grade 6 events	3513	4196	3068	3410
	2%	2%	2%	2%
grade 7 events	115868	116077	131805	126714
	83%	81%	86%	85%

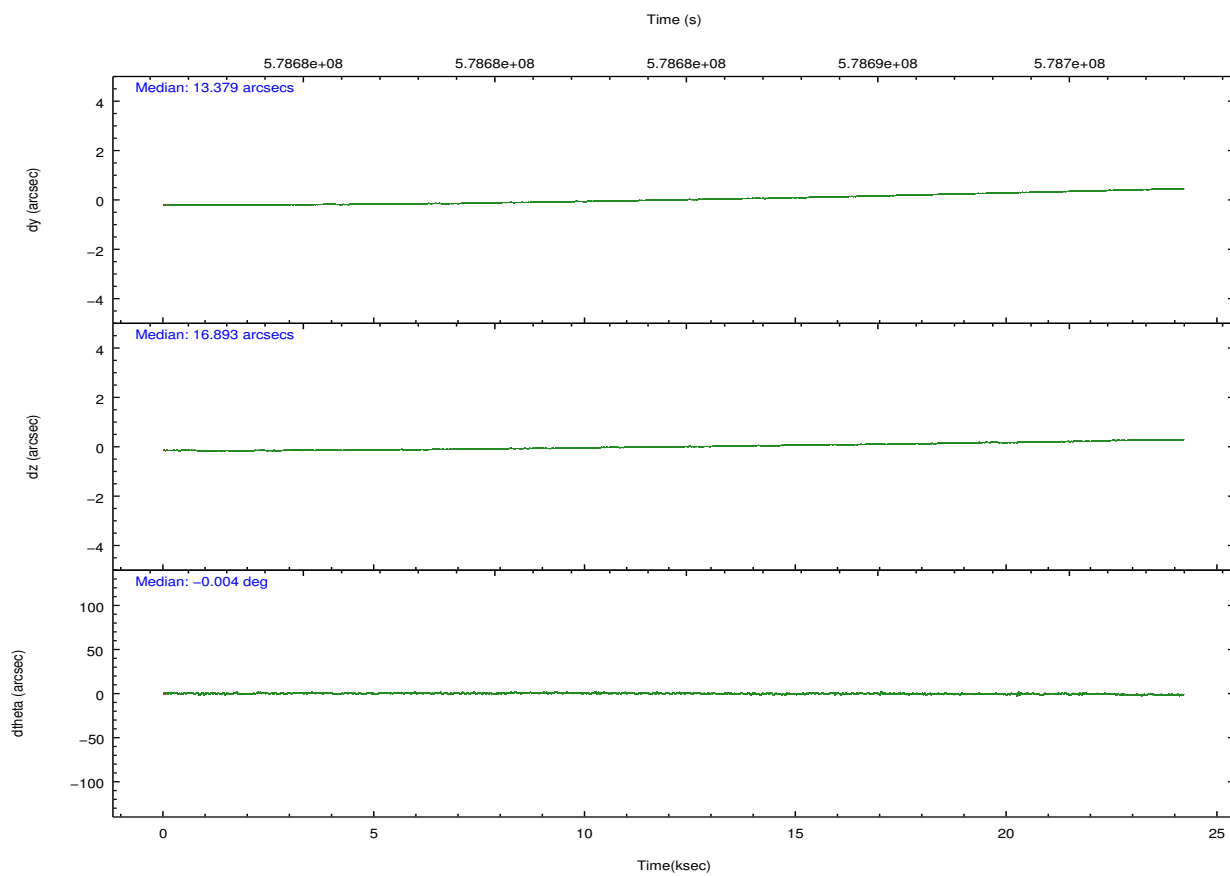
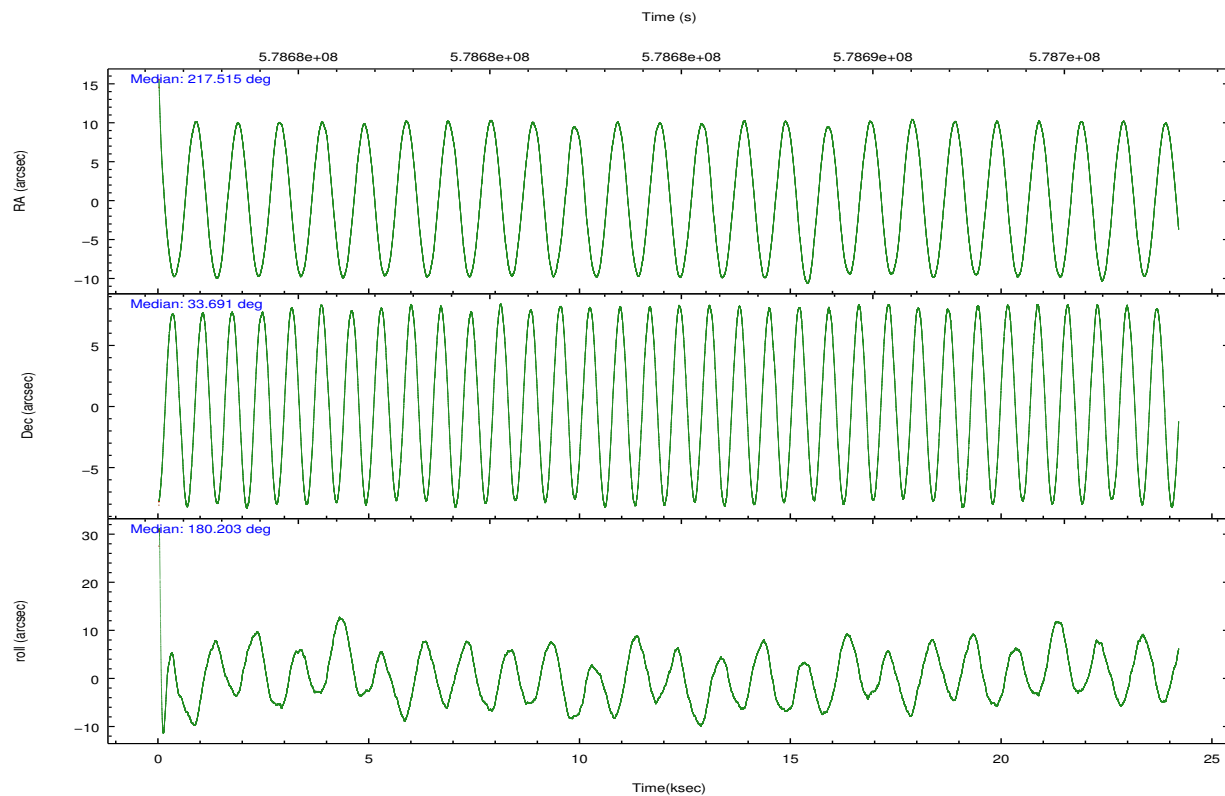
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	217.543191	217.5145899083411
[deg] Pointing Dec	33.705269	33.69127874155511
[deg] Pointing Roll	179.988588	180.2131687254375
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	578672788.184000	578671100.9337699
Observation start date	2016-05-03T14:25:20	2016-05-03T13:58:20
[s] Observation end time (MET)	578696788.184000	578696922.2227401
Observation end date	2016-05-03T21:05:20	2016-05-03T21:08:42
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O2	N
CCD S3 on	O1	N
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	2	2
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



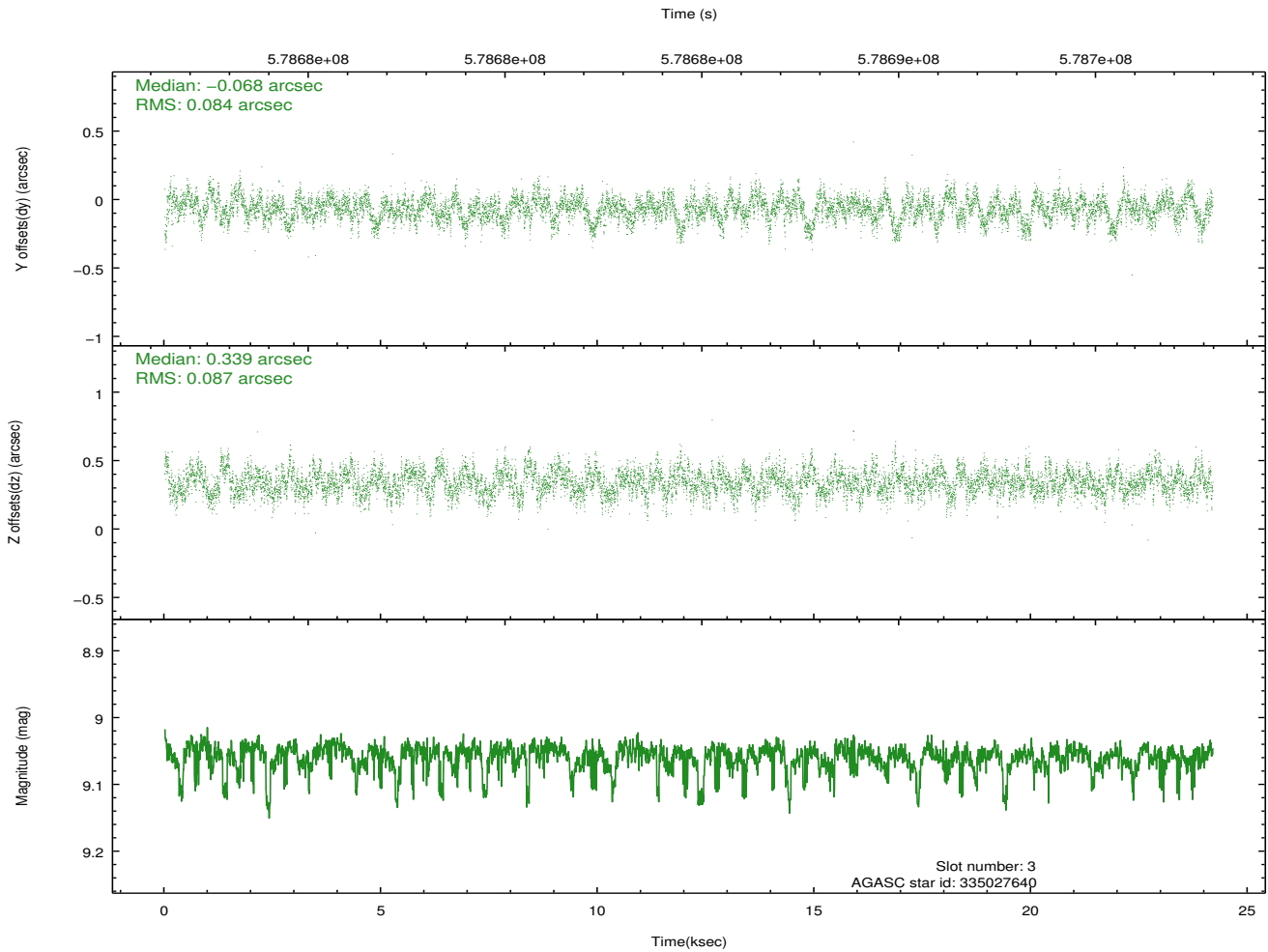
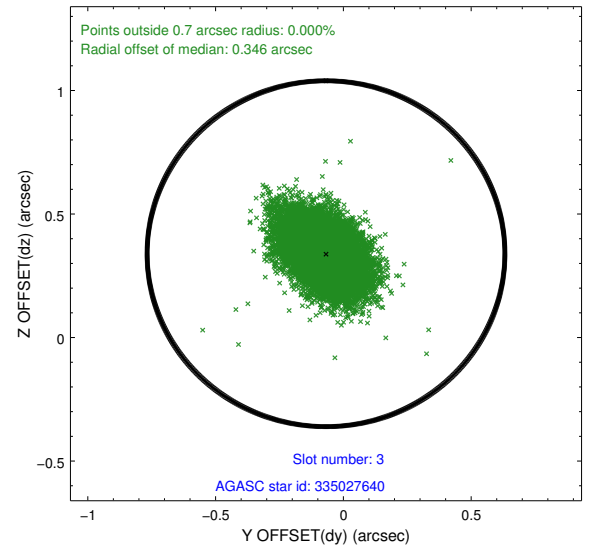
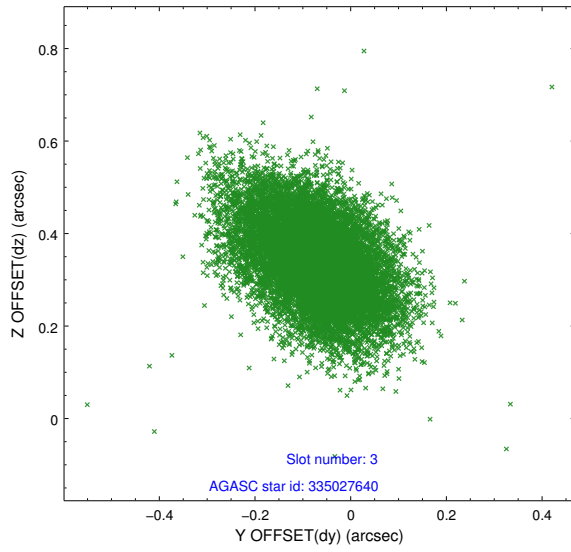


Slot Statistics

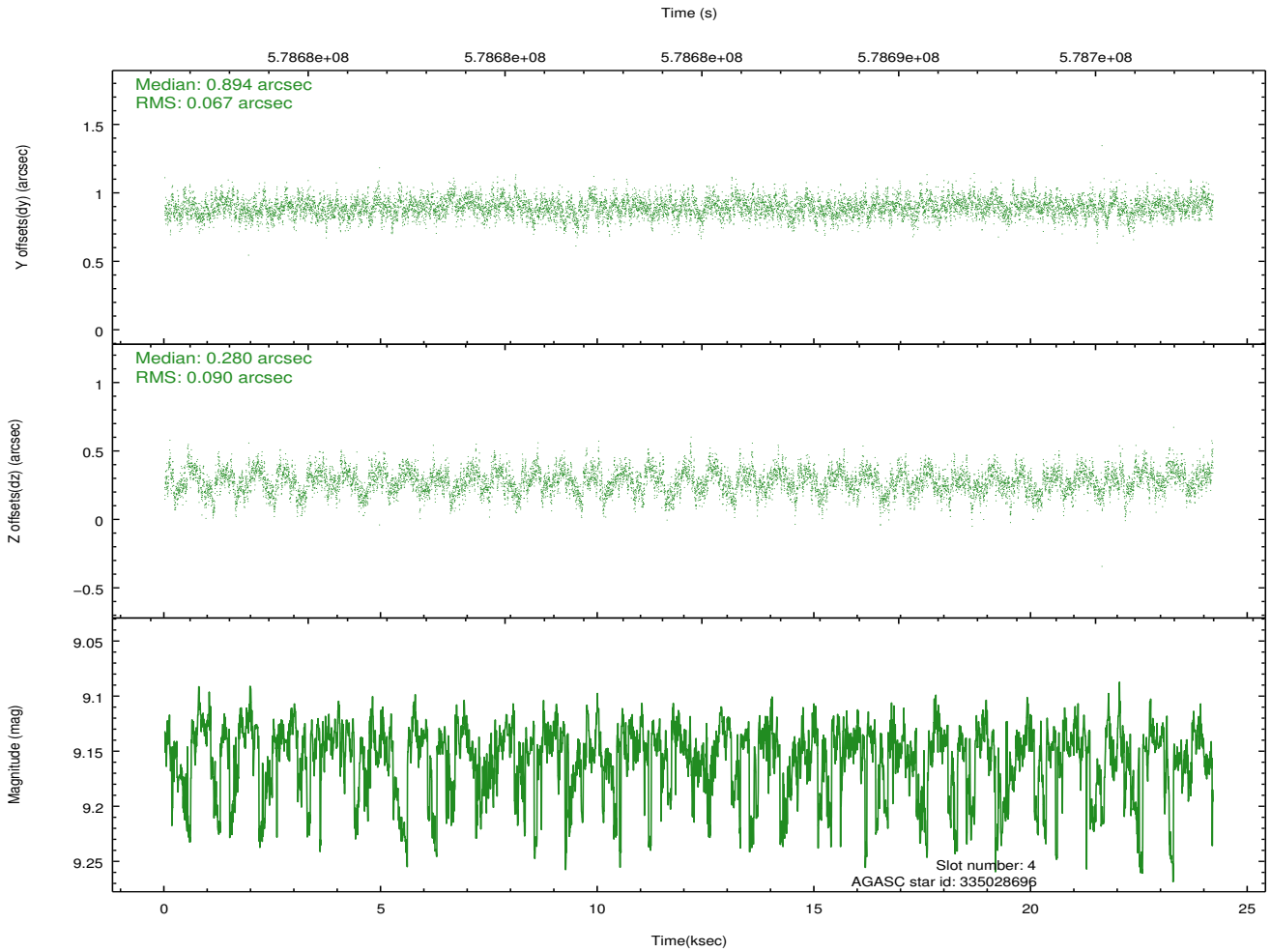
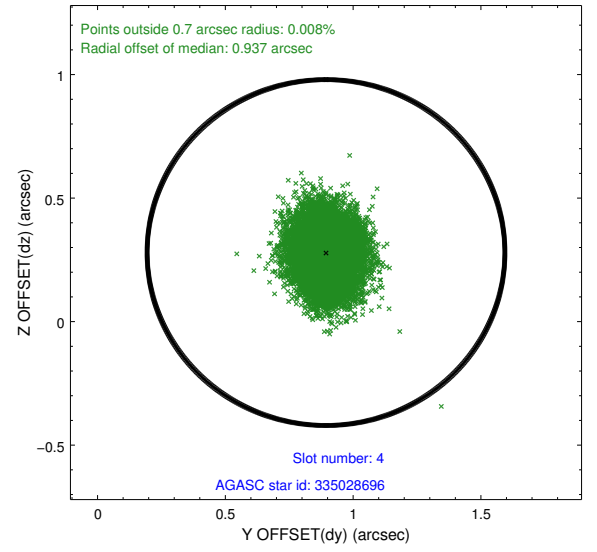
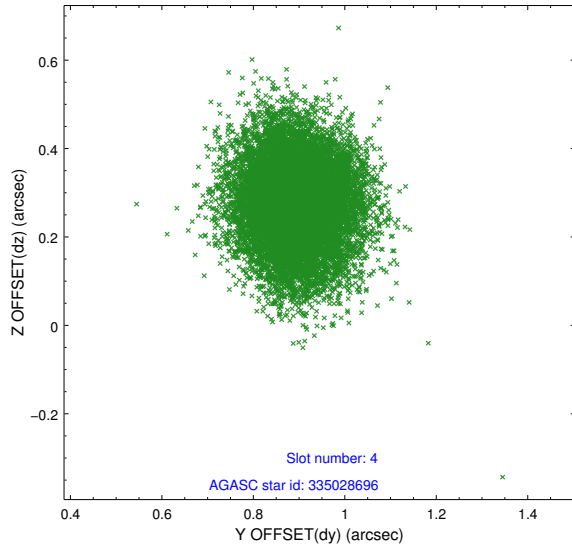
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	5898	-0.037	-0.115	0.009	0.017	0.000000	0.000000	926.07	-840.65
1	FID		ACIS-I-4	7.18	5900	0.347	0.121	0.008	0.013	0.000000	0.000000	2146.51	1059.37
2	FID		ACIS-I-5	7.26	5900	-0.408	0.065	0.007	0.014	0.000000	0.000000	-1822.19	1057.19
3	GUIDE	used	335027640	9.06	11787	-0.068	0.339	0.126	0.211	218.092211	33.193770	-1654.31	1836.82
4	GUIDE	used	335028696	9.15	11785	0.894	0.280	0.119	0.194	217.260519	33.844112	846.58	-500.22
5	GUIDE	used	335029384	8.48	11797	-0.233	0.056	0.092	0.149	217.848061	33.088477	-920.51	2219.37
6	GUIDE	used	335029808	9.03	11791	-0.270	-0.138	0.145	0.236	216.789548	33.180488	2270.47	1881.77
7	GUIDE	used	335028240	9.12	11781	-0.318	-0.525	0.123	0.200	216.746851	33.385009	2394.68	1143.78

2.4 Star Slots

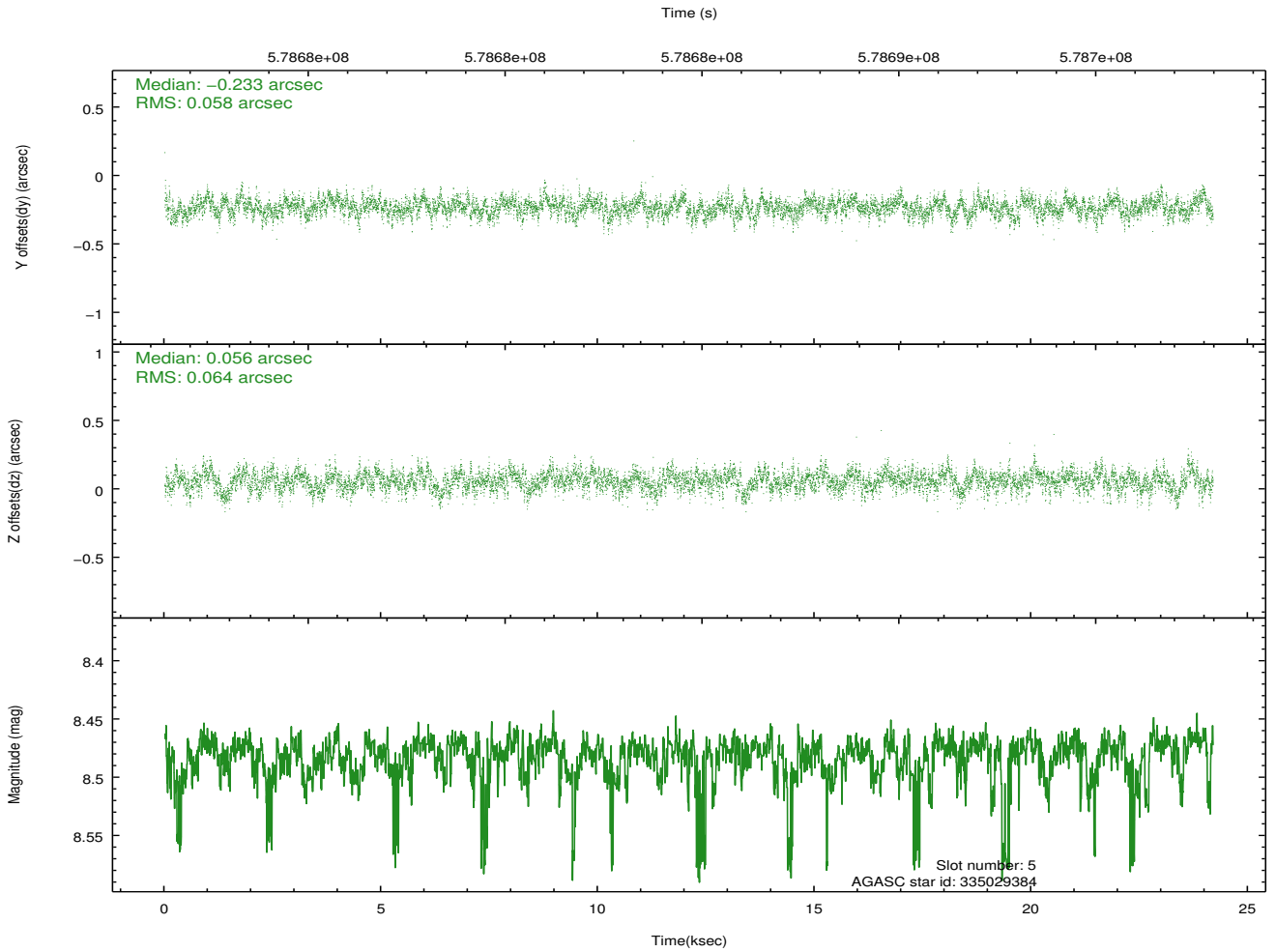
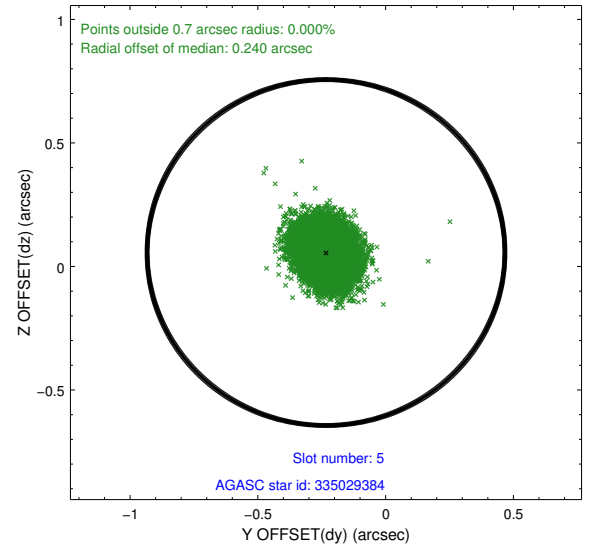
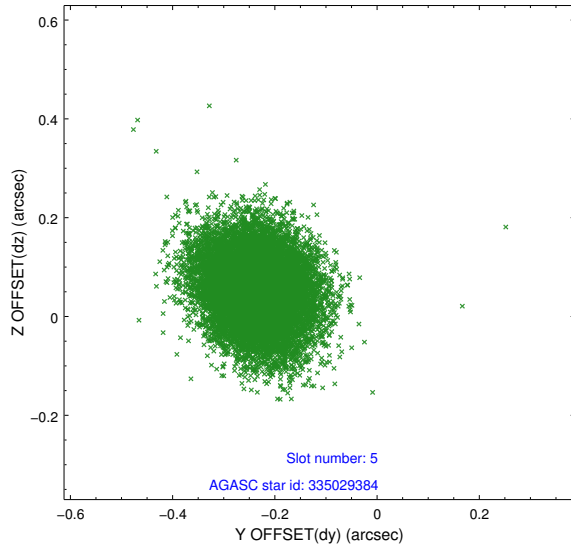
2.4.1 Slot 3



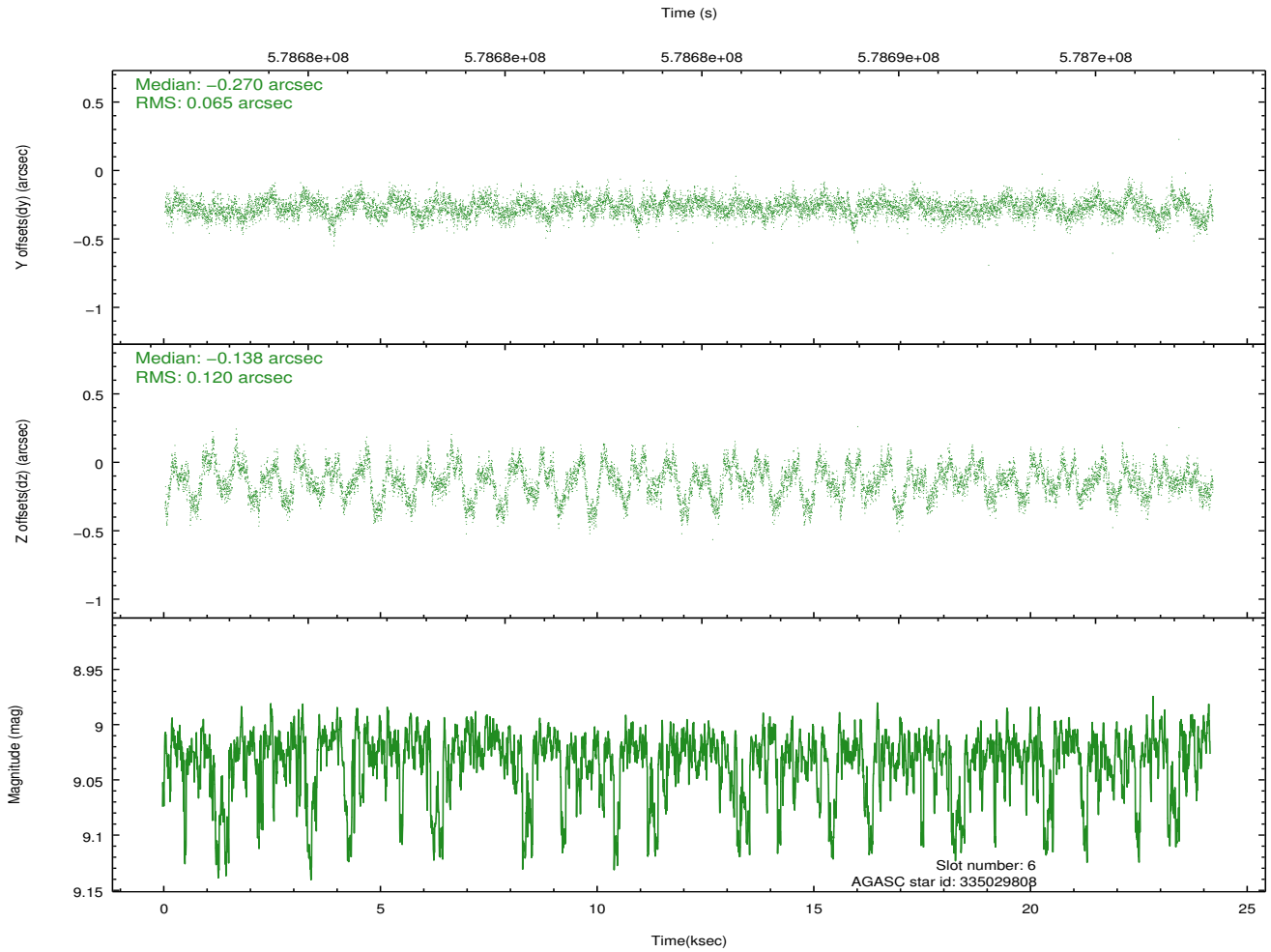
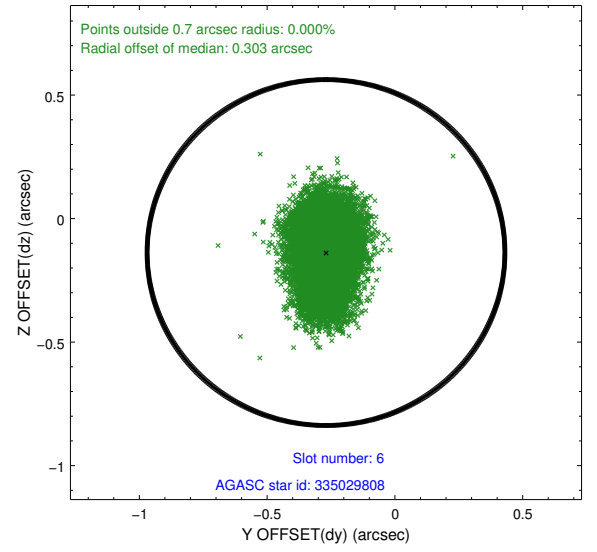
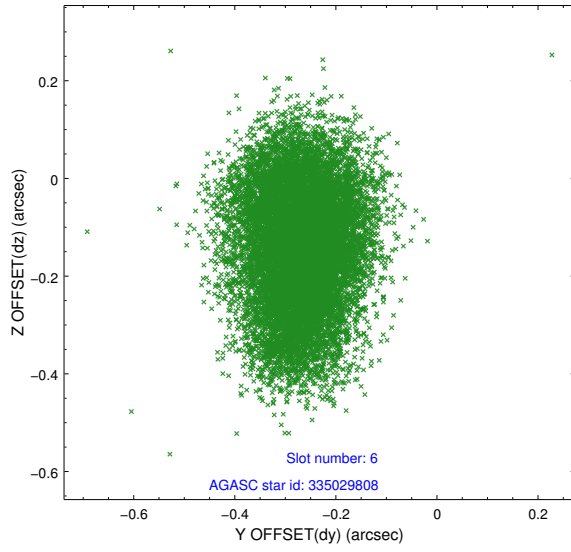
2.4.2 Slot 4



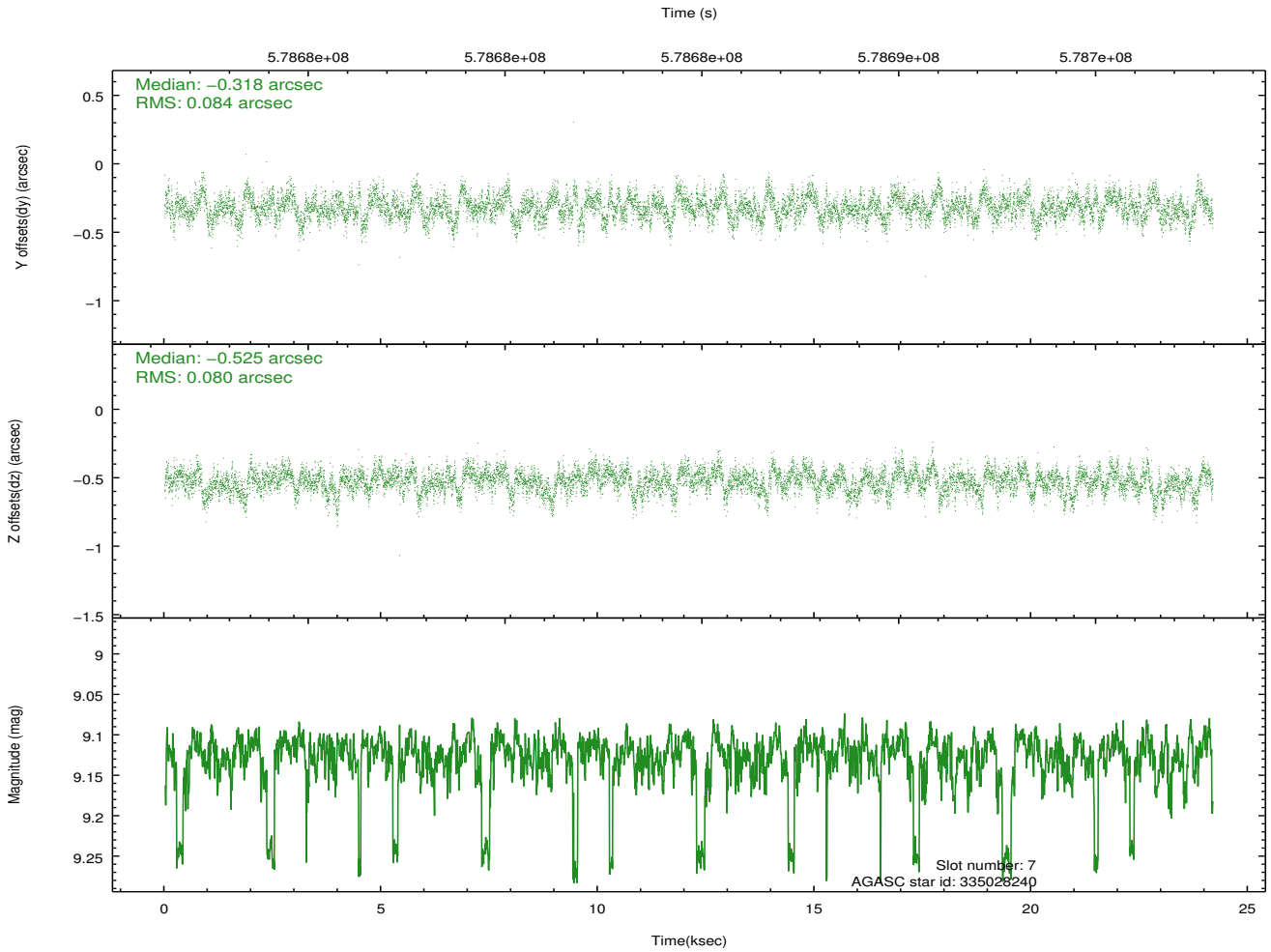
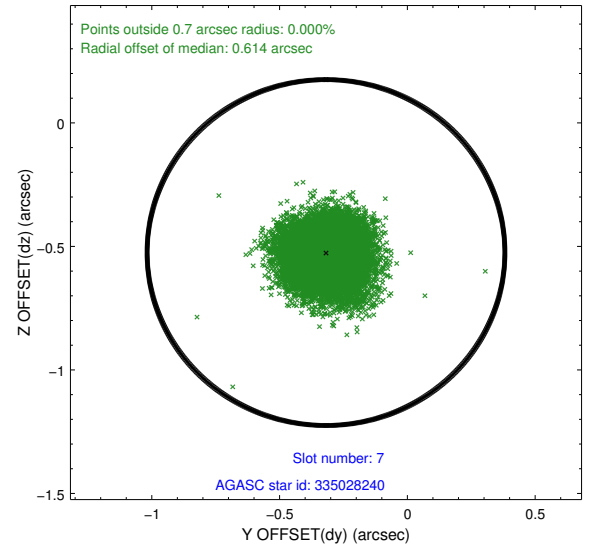
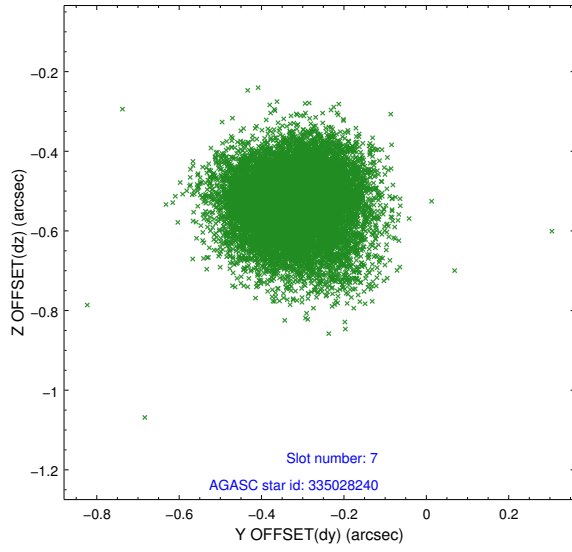
2.4.3 Slot 5



2.4.4 Slot 6

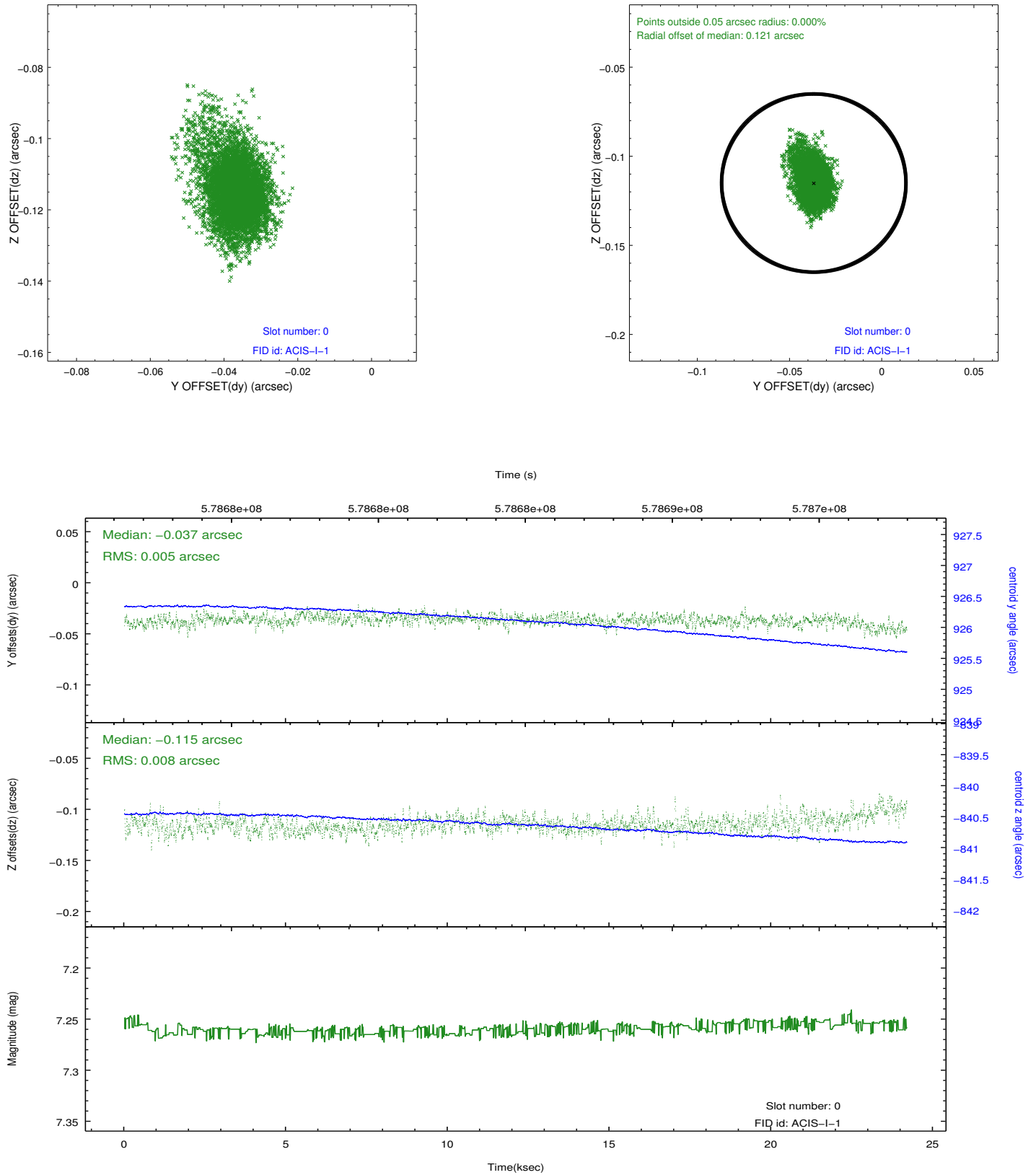


2.4.5 Slot 7

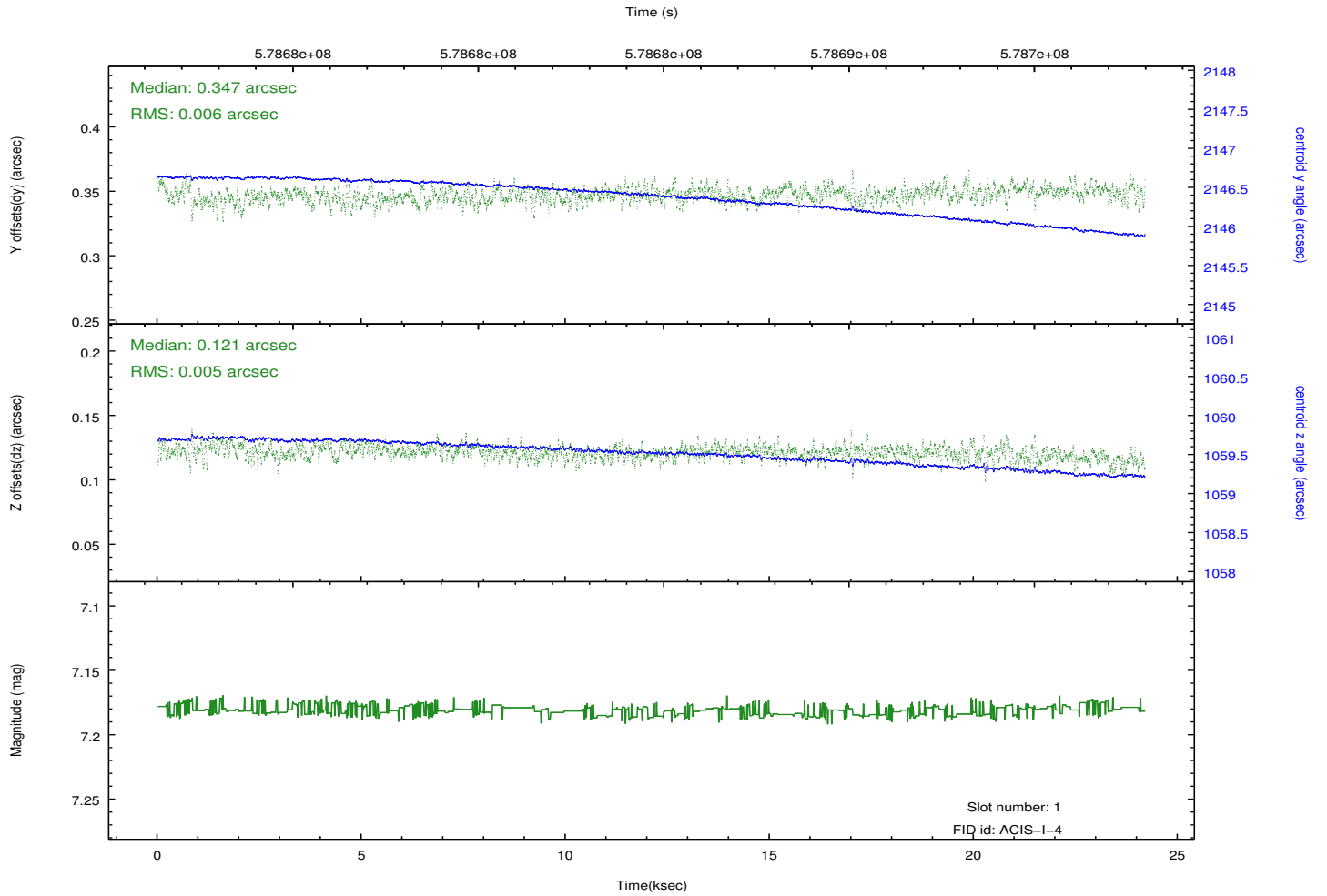
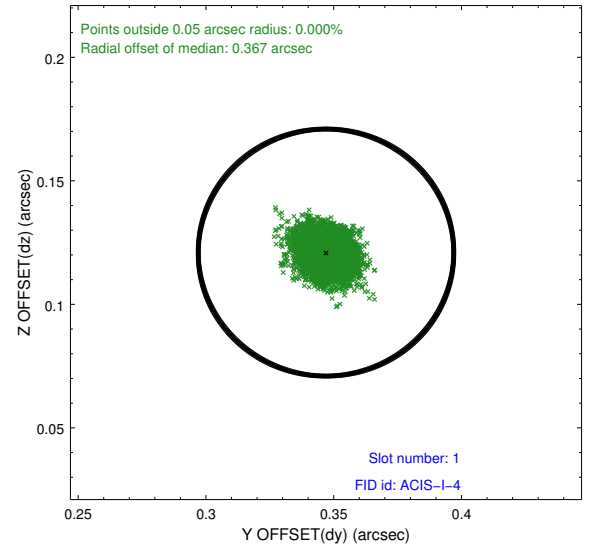
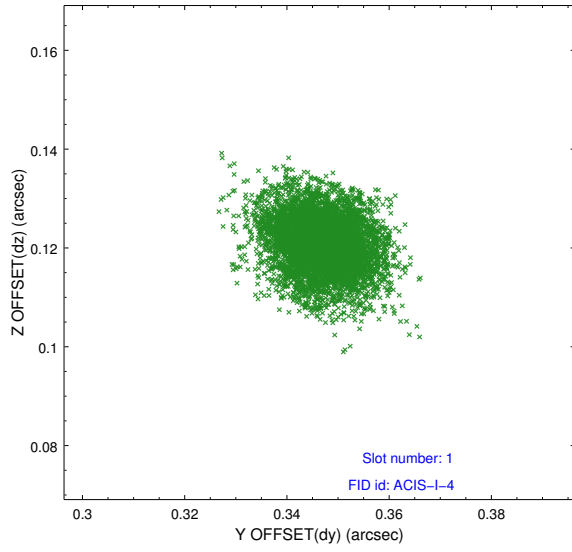


2.5 FID Slots

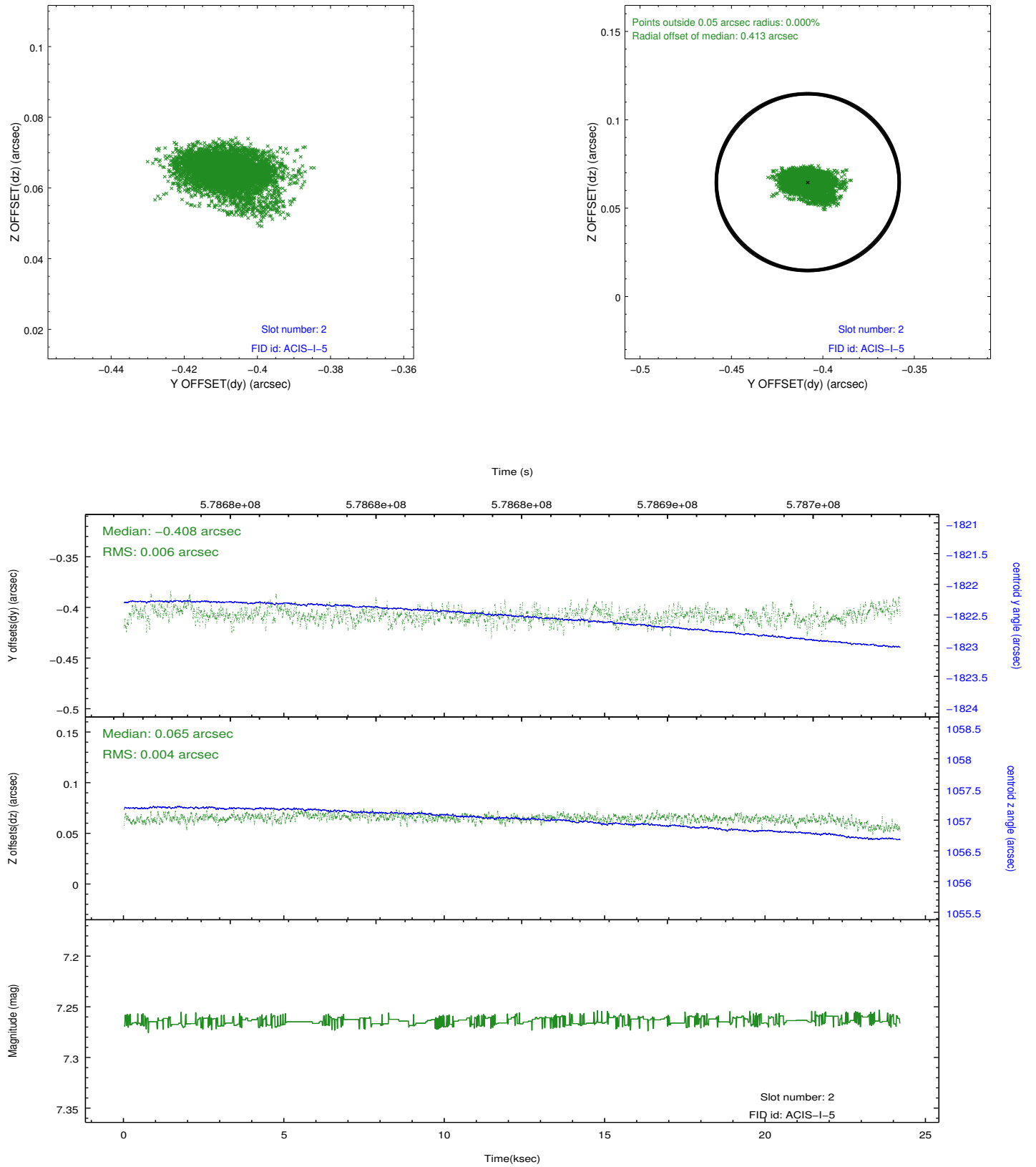
2.5.1 Slot 0



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)	2016.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.076808170438

A.2 Comments