

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21891 - L2 Version 1
Chandra X-Ray Center

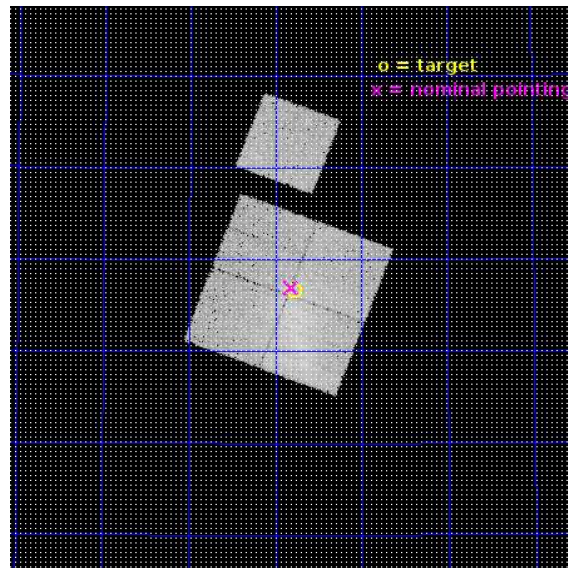
L2 Processing Date : Mar 19 2019

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1 Front

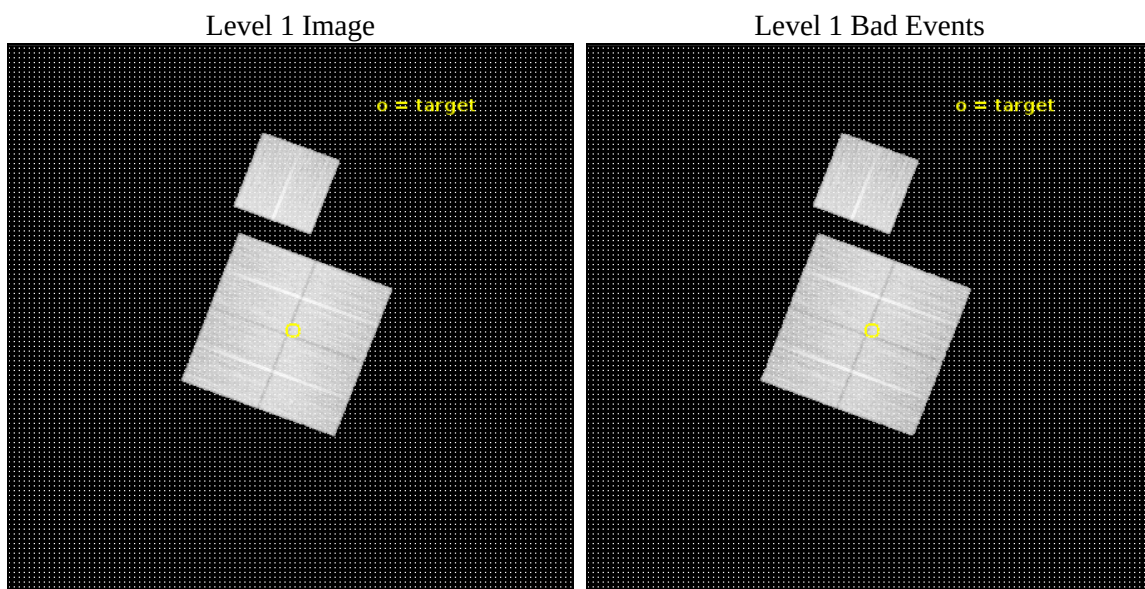
seq_num	801784	Sequence number
obs_id	21891	Observation id
title	A POSSIBLE FIRST DETECTION OF INVERSE COMPTON EMISSION FROM A GALAXY CLUSTER	Proposal title
observer	Maxim Markevitch	Principal investigator
object	CIZA J2242.8+5301	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	340.695	Observer's specified target RA [deg]
dec_targ	53.11	Observer's specified target Dec [deg]
ra_nom	340.70350421986	Nominal RA [deg]
dec_nom	53.115813710192	Nominal Dec [deg]
roll_nom	20.658862163862	Nominal Roll [deg]
revision	1	Processing version of data
ontime	29067.701791763	Sum of GTIs [s]
livetime	28687.910868523	Livetime [s]
ontime0	29067.578671813	Sum of GTIs [s]
ontime1	29067.619711757	Sum of GTIs [s]
ontime2	29067.66075182	Sum of GTIs [s]
ontime3	29067.701791763	Sum of GTIs [s]
ontime6	29064.39666152	Sum of GTIs [s]
l2events	122165	Number of level 2 events



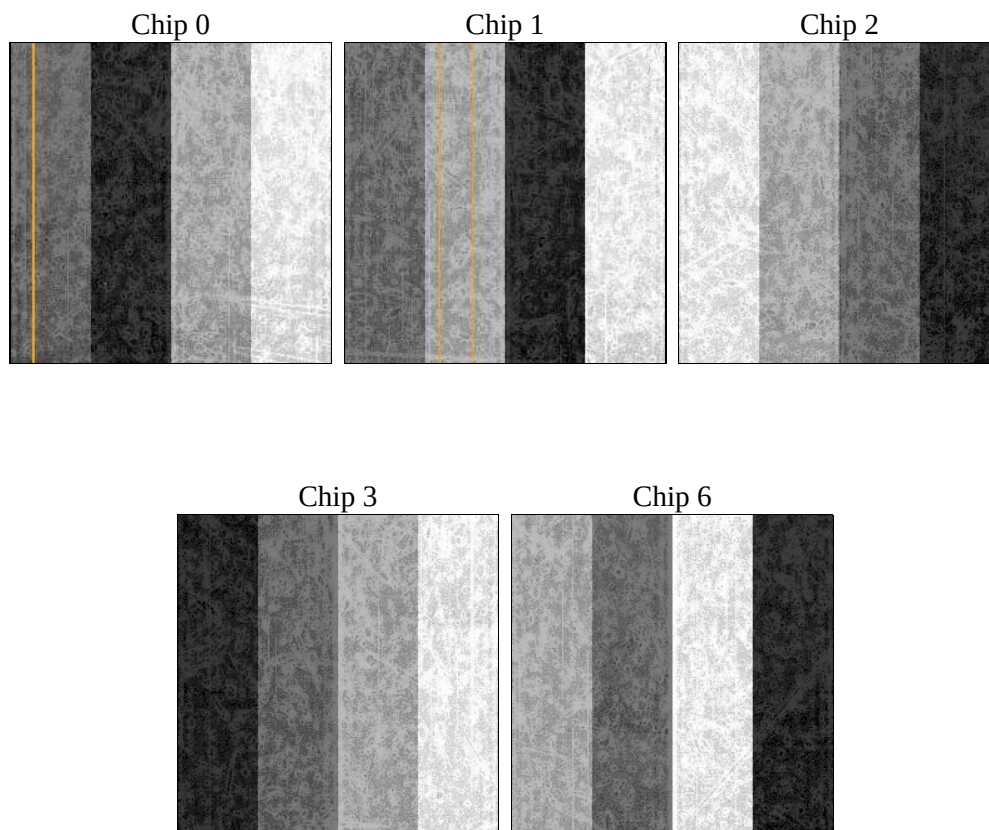
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	29067.701791763	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	29067.578671813	Sum of GTIs [s]
date	2019-03-19T04:03:47	Date and time of file creation	ontime1	29067.619711757	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	29067.66075182	Sum of GTIs [s]
			ontime3	29067.701791763	Sum of GTIs [s]
			ontime6	29064.39666152	Sum of GTIs [s]
			l1events	1080934	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	204744	215989	224044	215728	220429
rejected events	177308	175626	199175	189805	195335
rejected %	86%	81%	88%	87%	88%

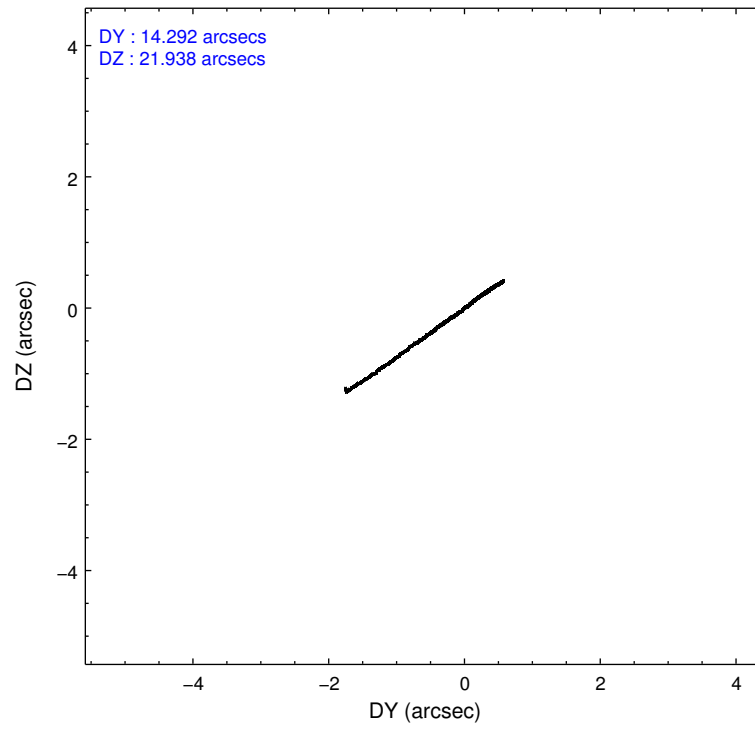
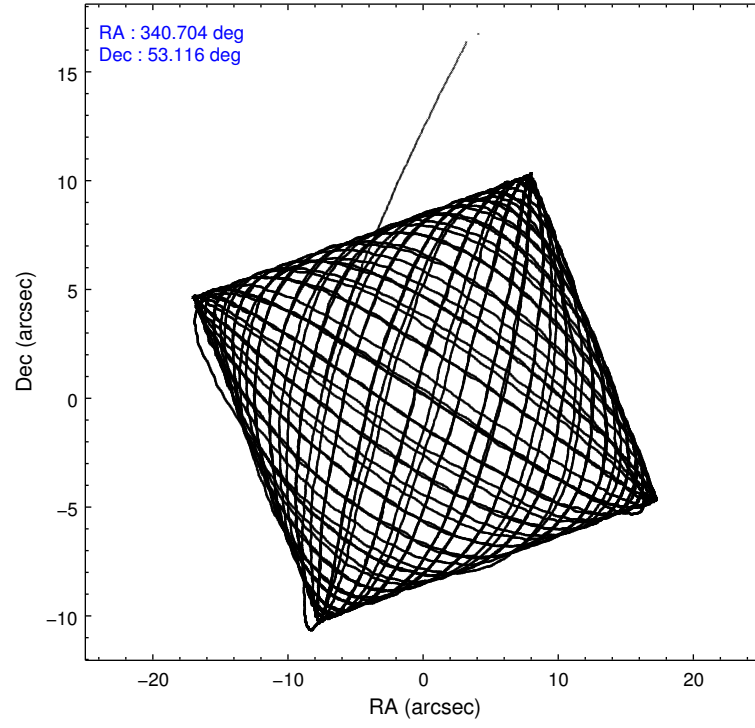
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	10320	18763	9024	10458	8398
	5%	8%	4%	4%	3%
grade 1 events	137	178	126	142	132
	0%	0%	0%	0%	0%
grade 2 events	6797	8693	6173	5410	5845
	3%	4%	2%	2%	2%
grade 3 events	2563	3136	2393	2479	2520
	1%	1%	1%	1%	1%
grade 4 events	2493	3043	2516	2508	2459
	1%	1%	1%	1%	1%
grade 5 events	9635	9953	8920	10850	10044
	4%	4%	3%	5%	4%
grade 6 events	5268	6733	4769	5070	5882
	2%	3%	2%	2%	2%
grade 7 events	167531	165490	190123	178811	185149
	81%	76%	84%	82%	83%

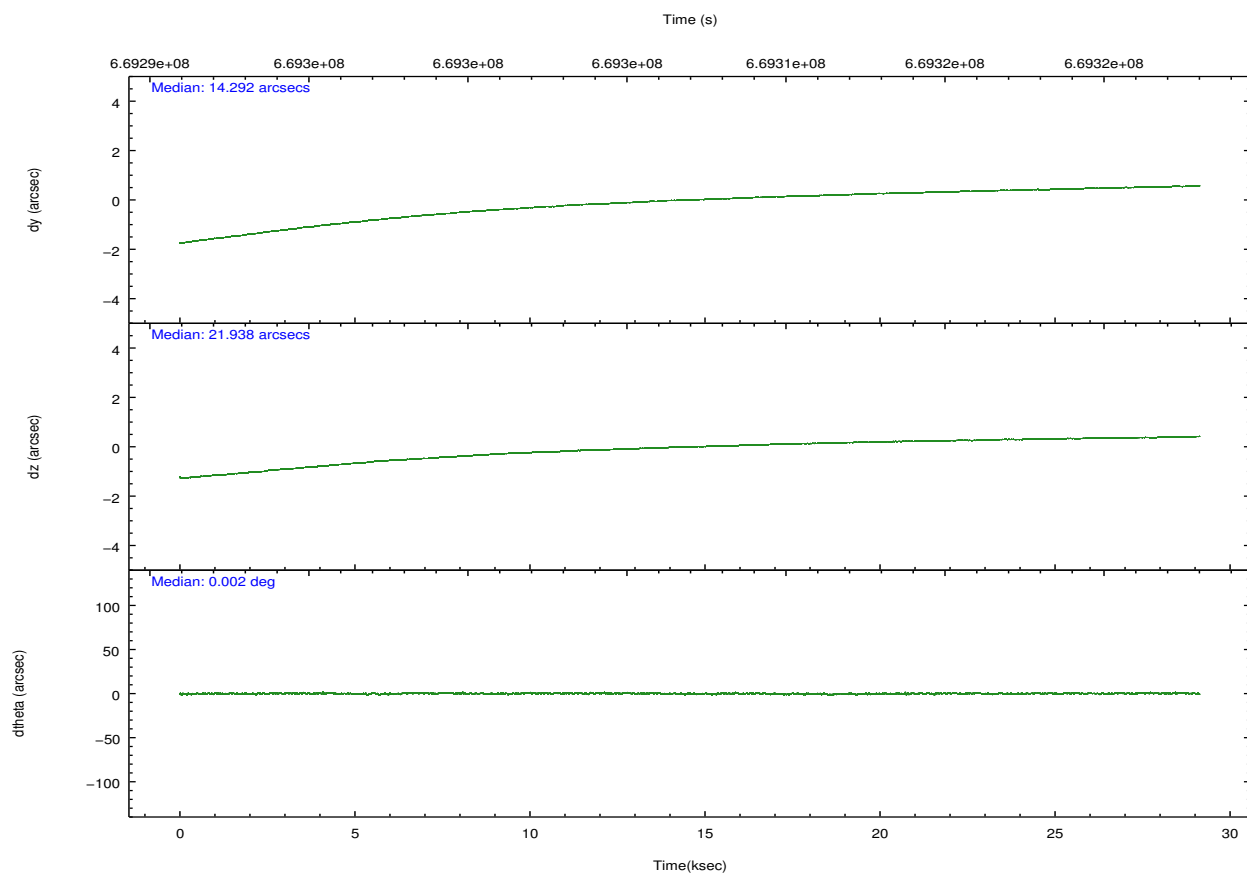
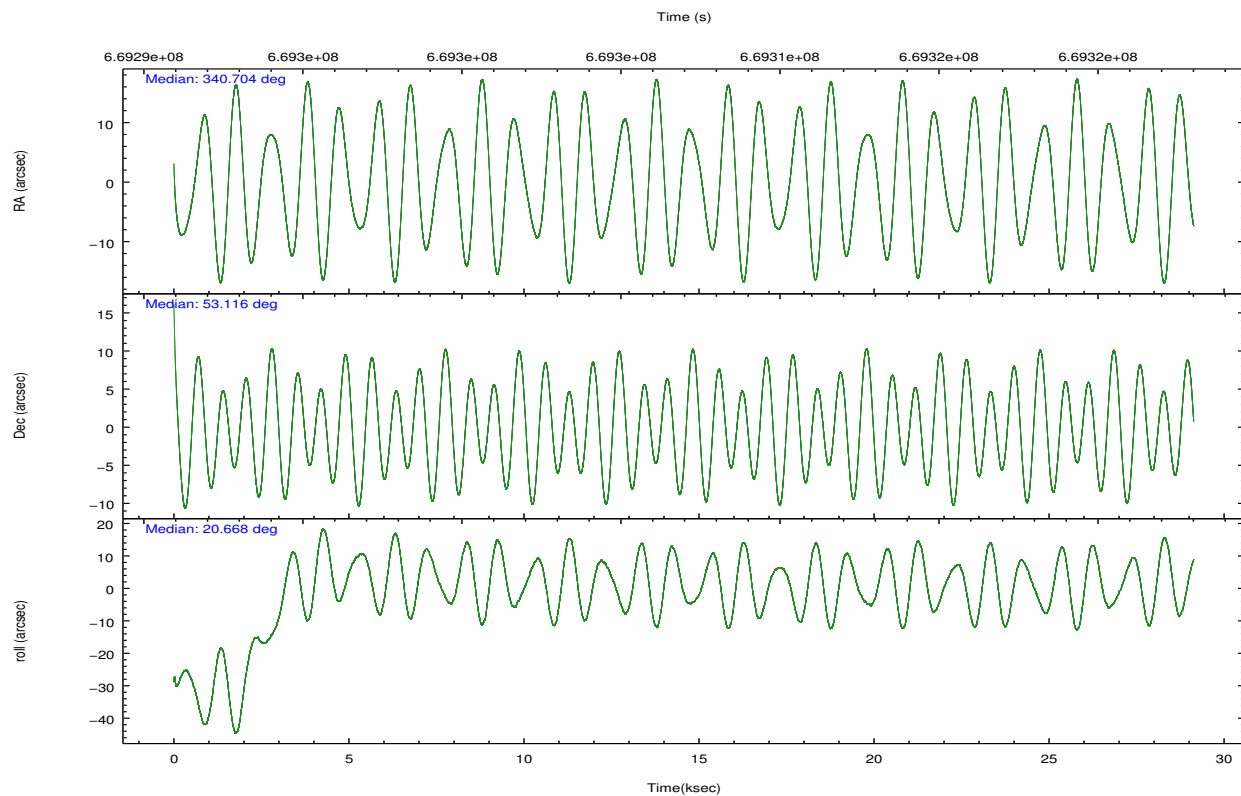
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	340.674501	340.7035042198564
[deg] Pointing Dec	53.094388	53.11581371019192
[deg] Pointing Roll	20.473371	20.65886216386158
[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)	669292521.184000	669290775.14415
Observation start date	2019-03-18T10:34:12	2019-03-18T10:06:15
[s] Observation end time (MET)	669321521.184000	669322603.4460599
Observation end date	2019-03-18T18:37:32	2019-03-18T18:56:43
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	O1	Y
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
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



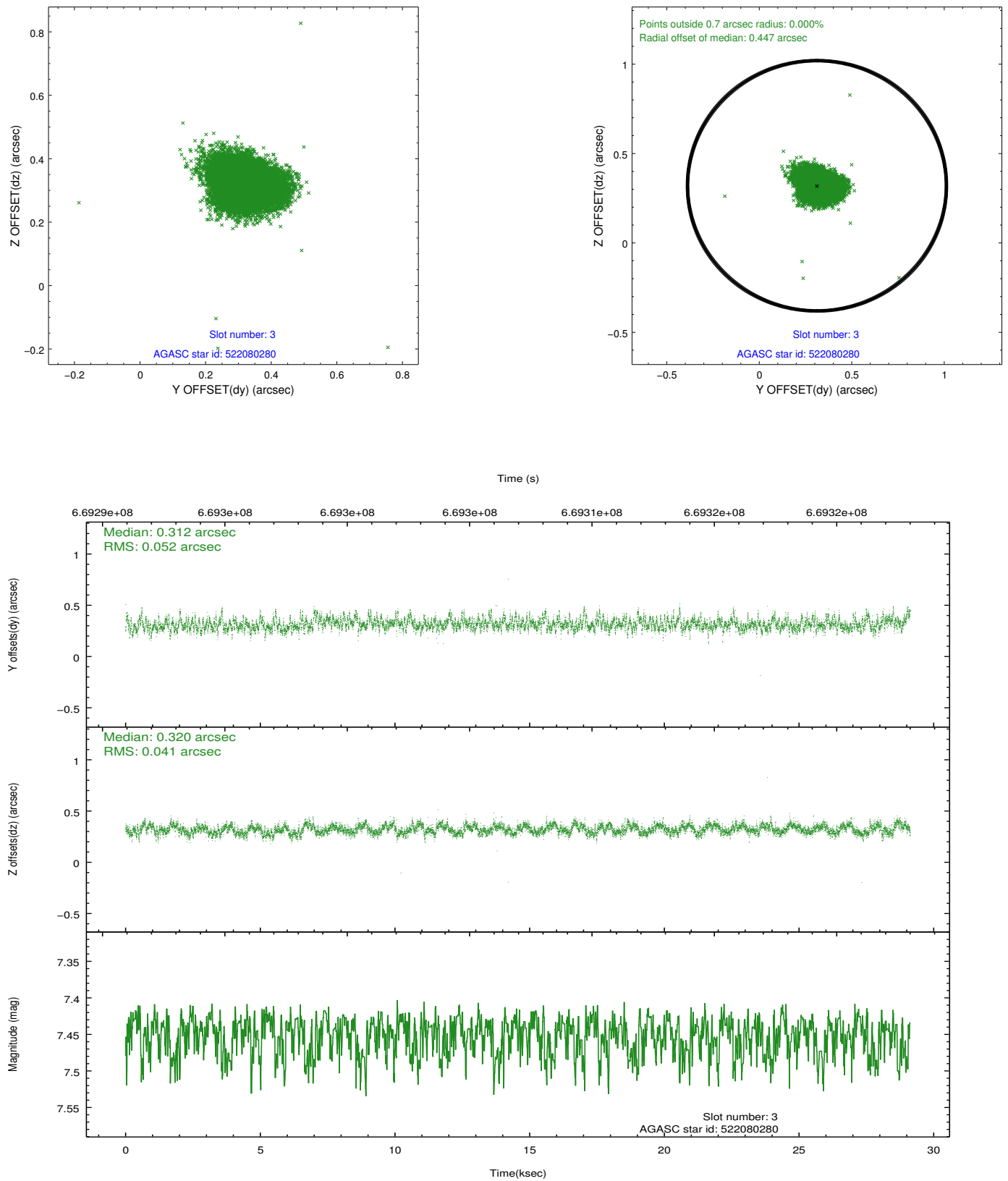


Slot Statistics

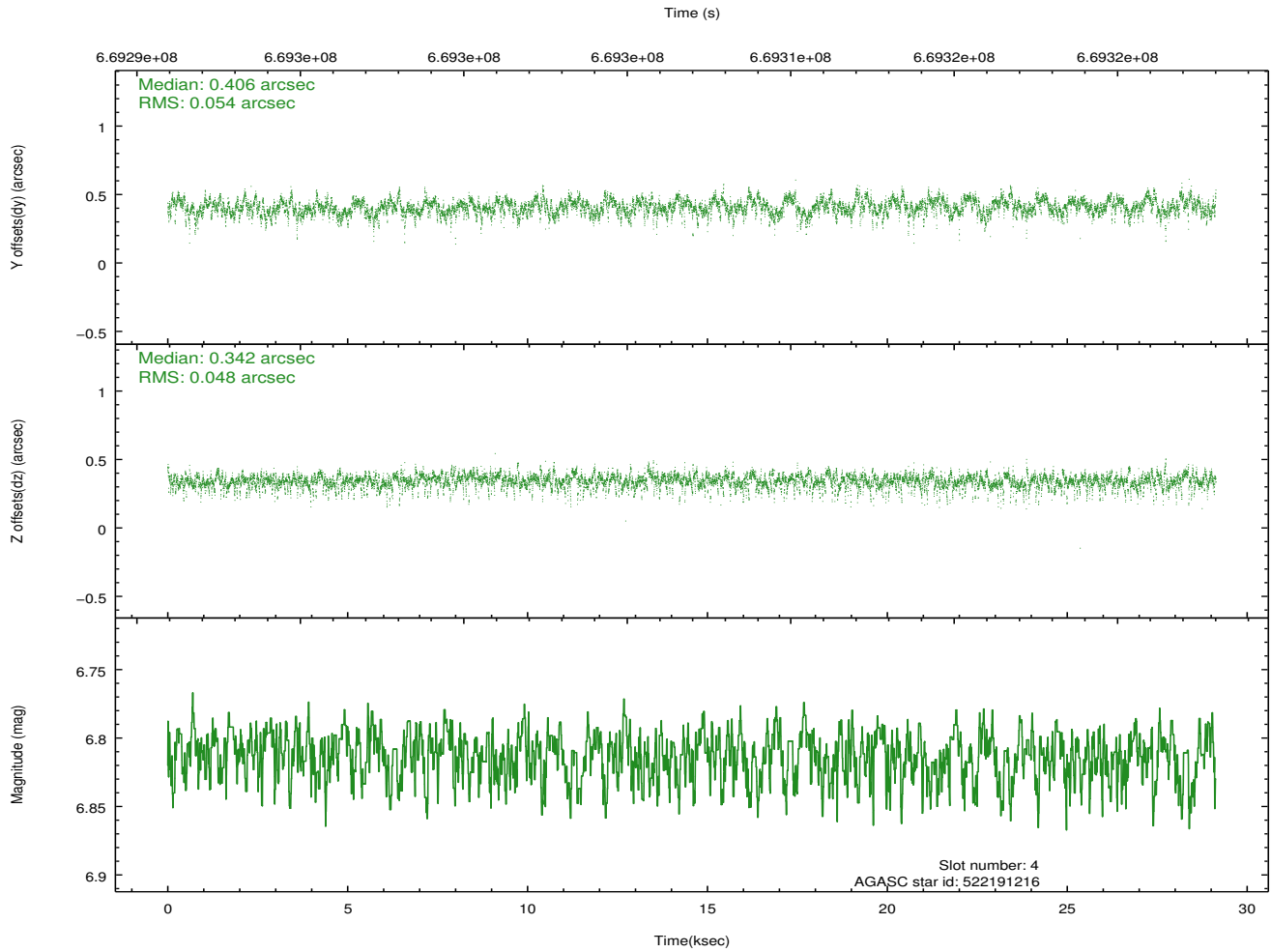
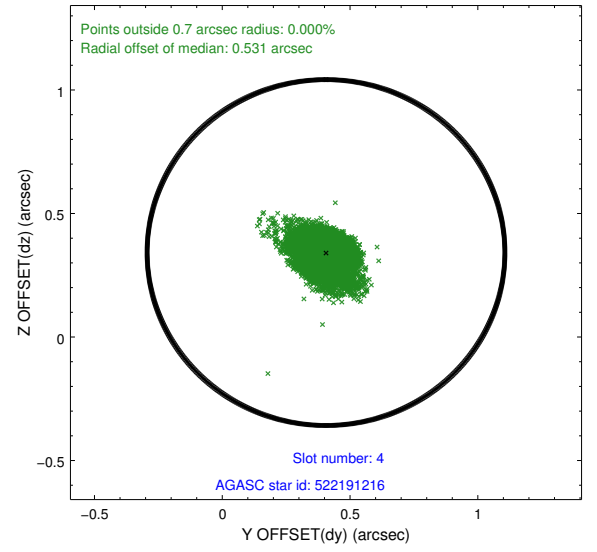
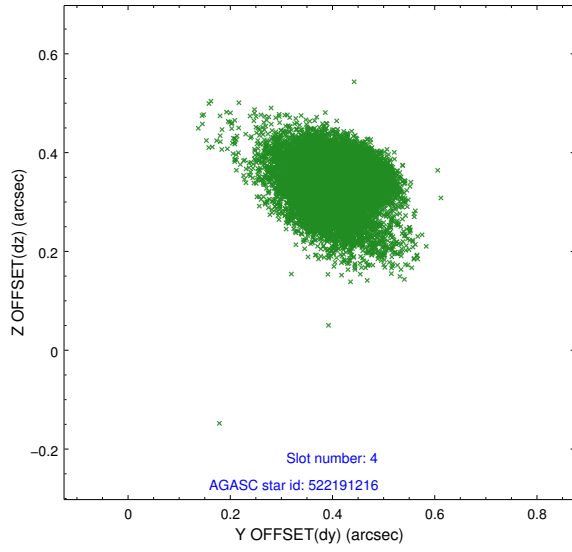
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.10	7106	1.000	0.095	-0.070	0.019	0.036	0.000000	0.000000	925.41	-845
1	FID		ACIS-I-3	7.33	7103	1.000	-0.116	0.113	0.013	0.021	0.000000	0.000000	42.74	-978
2	FID		ACIS-I-6	7.11	7106	1.000	-0.068	0.024	0.030	0.048	0.000000	0.000000	391.13	1696
3	GUIDE	used	522080280	7.45	14208	1.000	0.312	0.320	0.069	0.117	339.665580	52.873813	-2326.21	37
4	GUIDE	used	522191216	6.81	14210	1.000	0.406	0.342	0.075	0.128	341.400345	52.890306	1222.60	-1232
5	GUIDE	used	522195816	7.19	14204	1.000	-0.435	-0.332	0.108	0.156	341.124906	53.756426	1732.32	1899
6	GUIDE	used	522202320	6.96	14212	1.000	-0.081	-0.129	0.110	0.161	341.199728	53.302639	1321.70	310
7	GUIDE	used	522204136	7.18	14207	1.000	-0.205	-0.184	0.070	0.121	341.384669	53.374616	1784.13	418

2.4 Star Slots

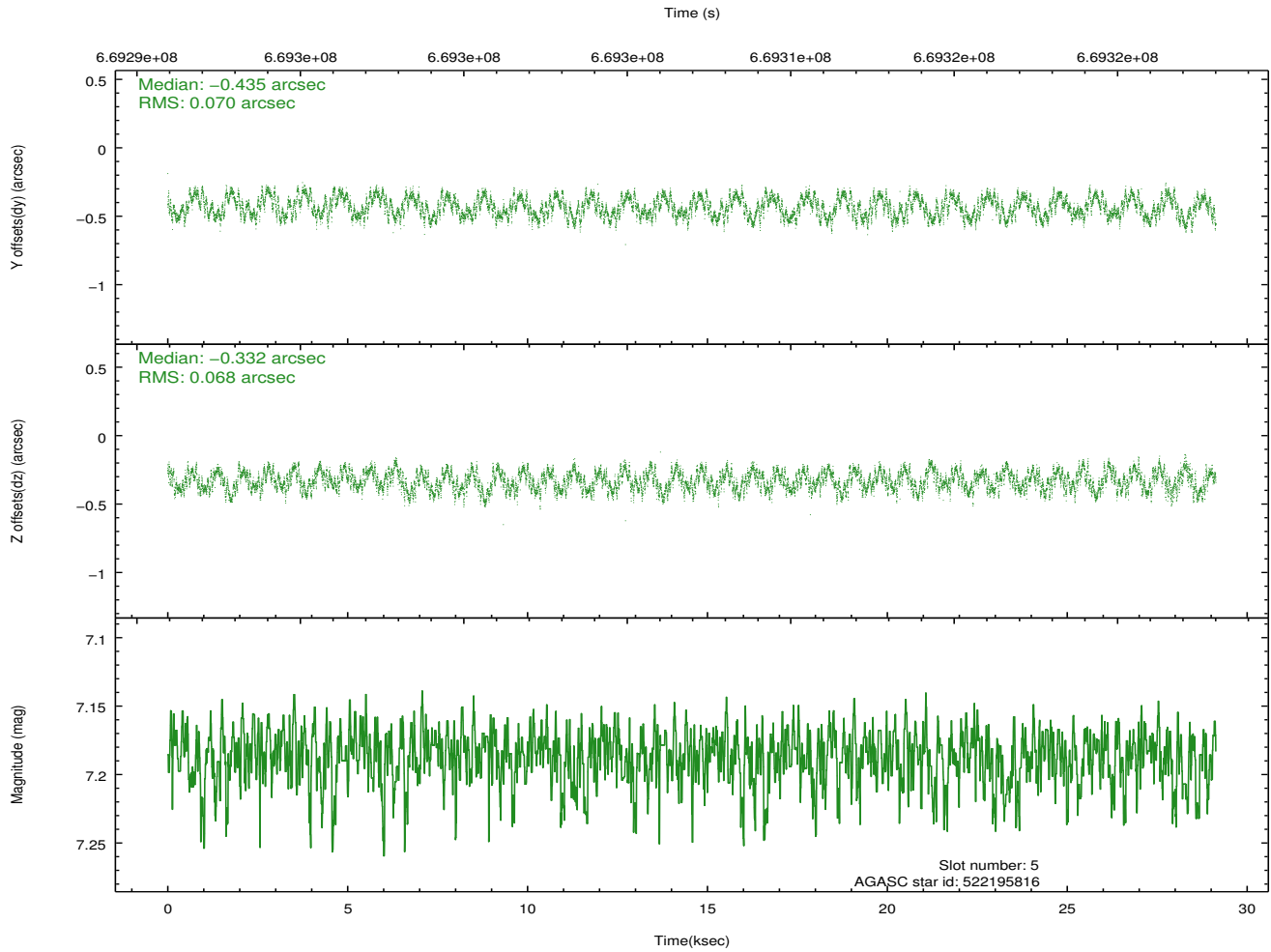
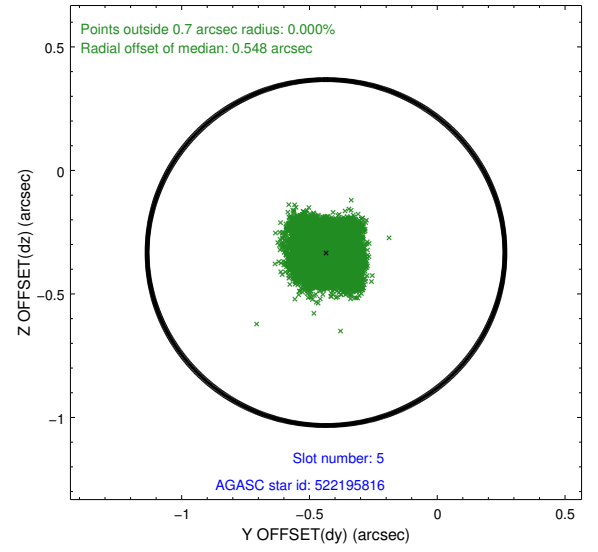
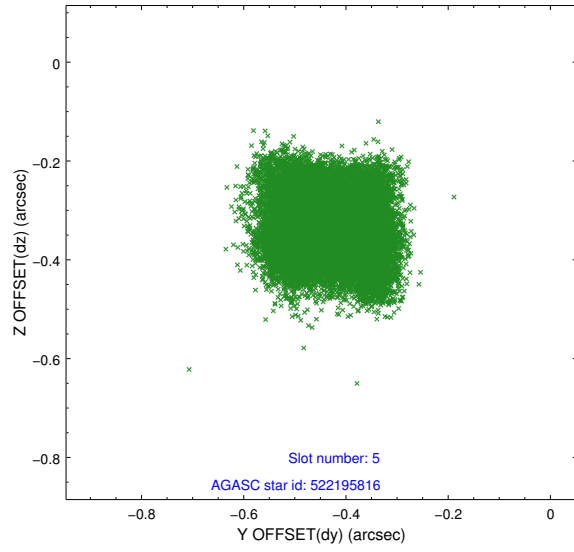
2.4.1 Slot 3



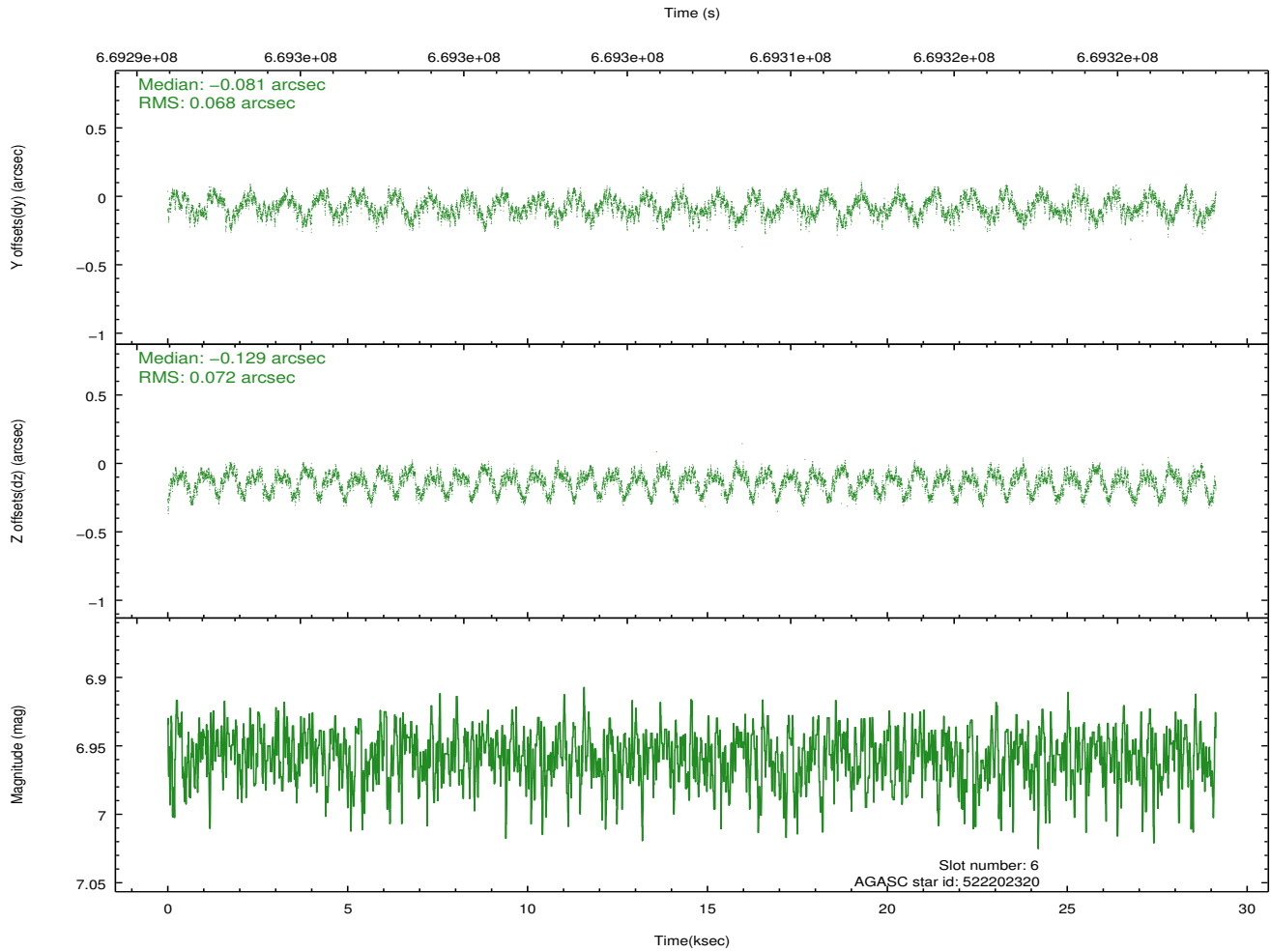
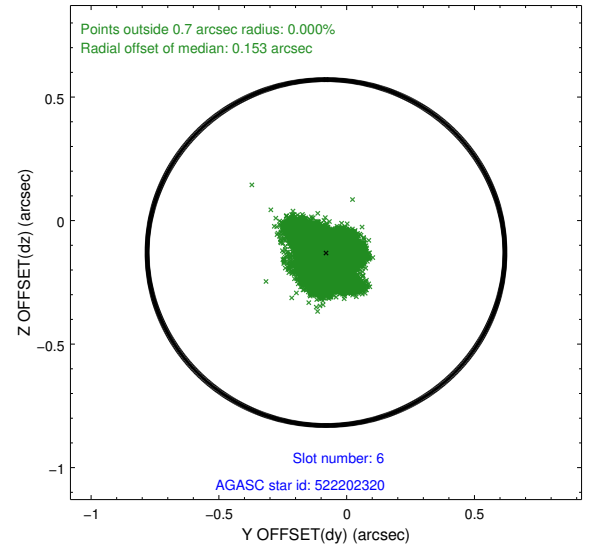
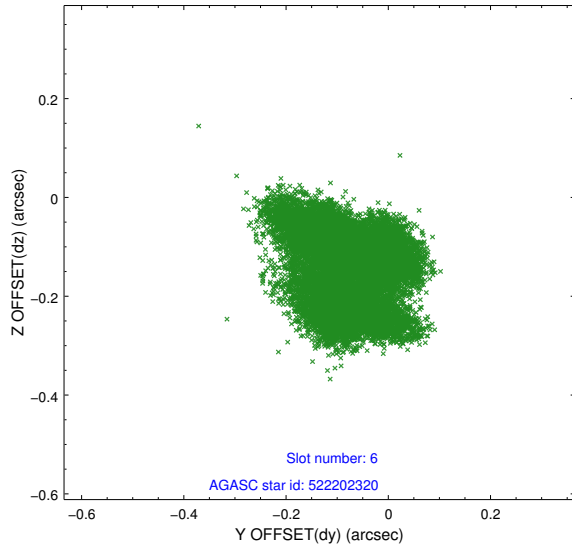
2.4.2 Slot 4



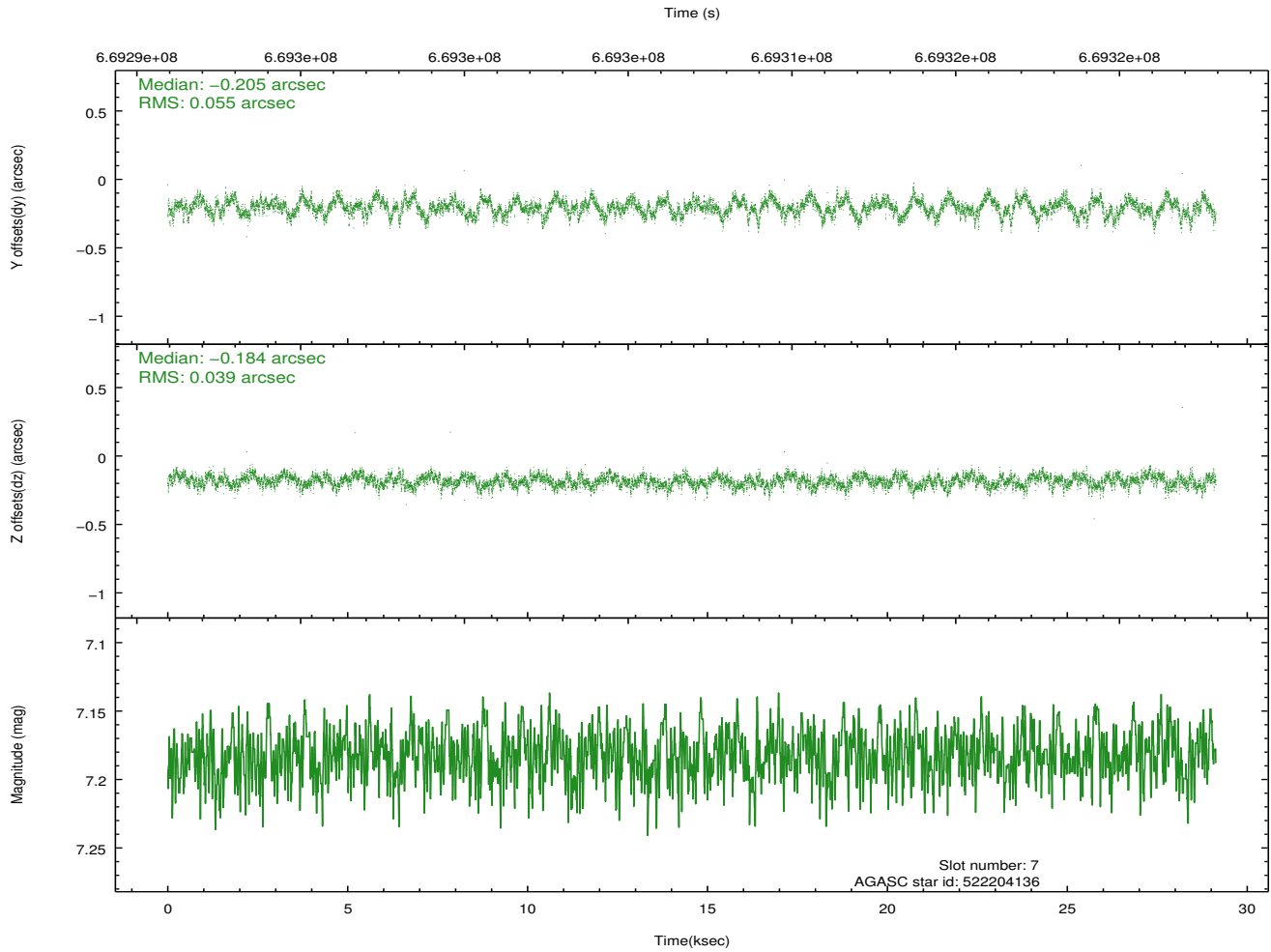
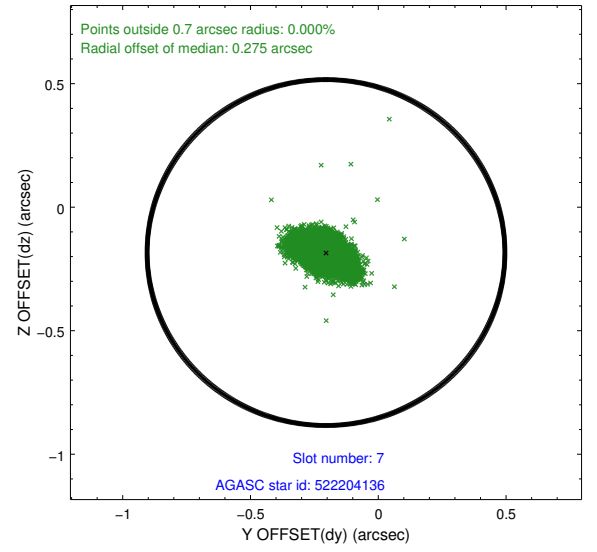
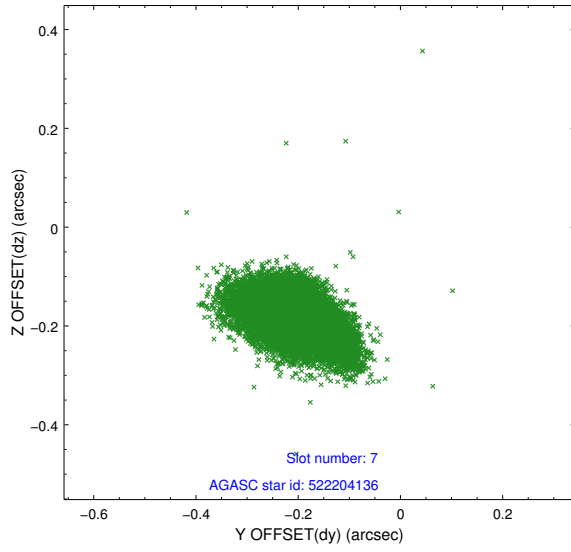
2.4.3 Slot 5



2.4.4 Slot 6

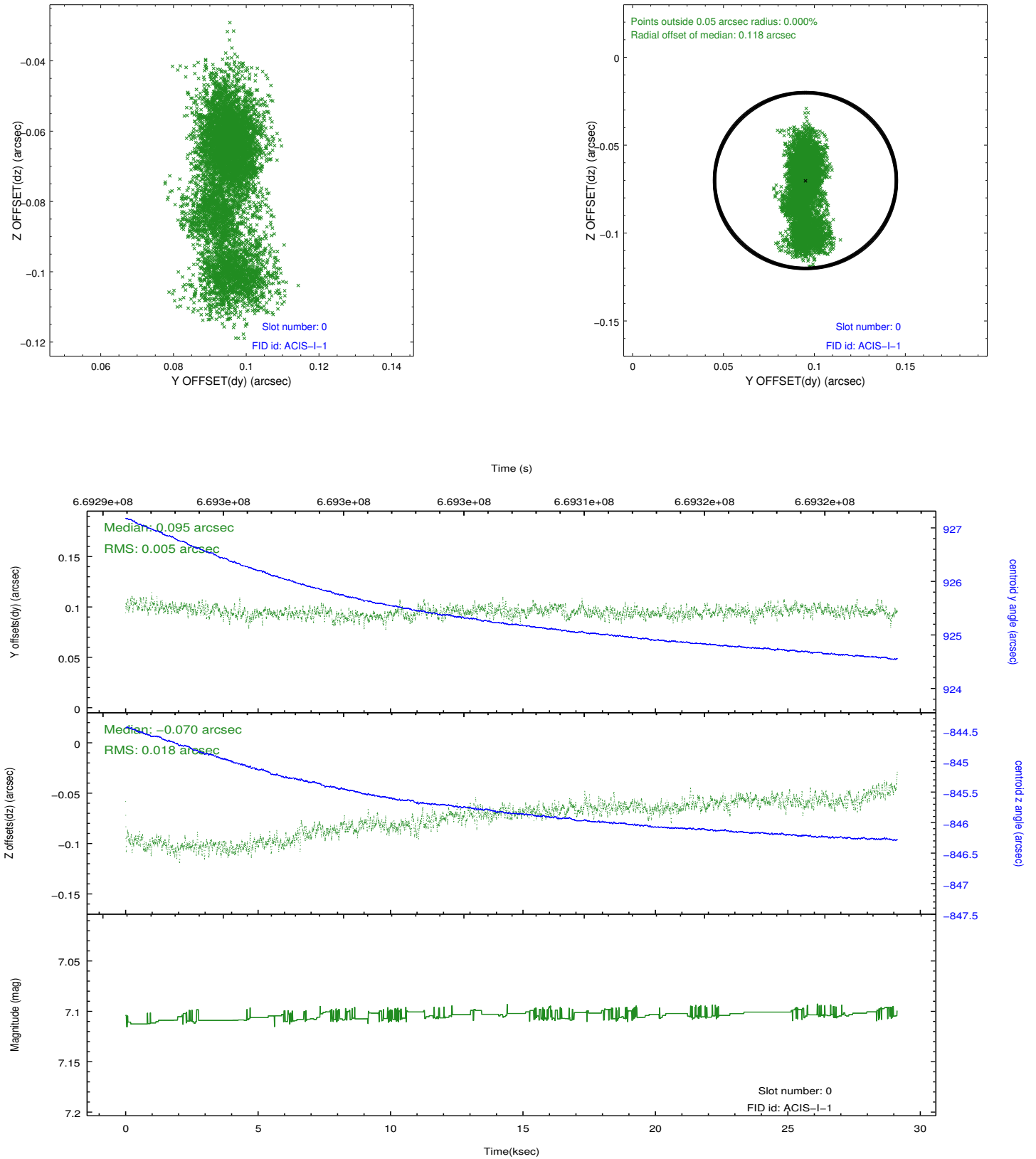


2.4.5 Slot 7

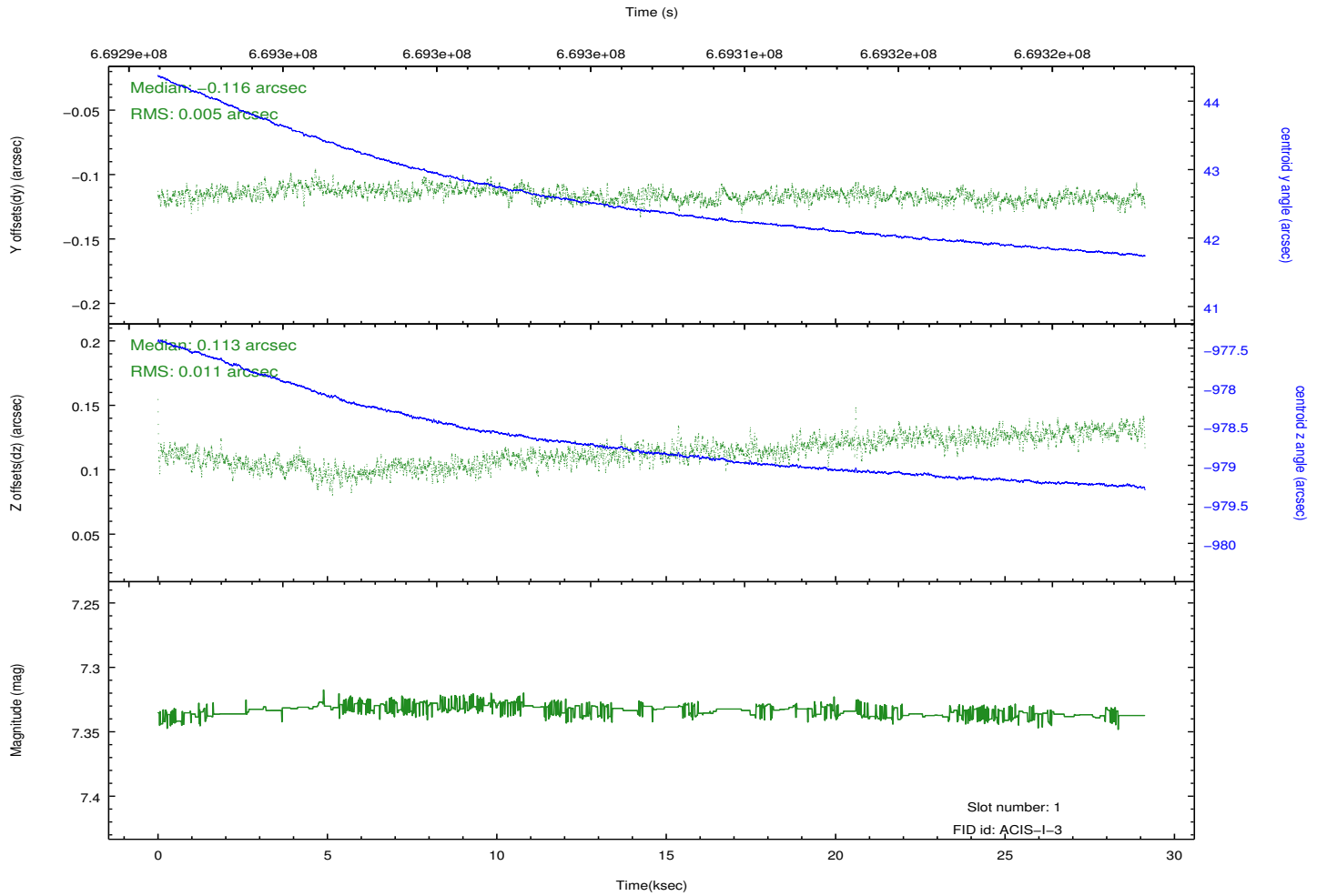
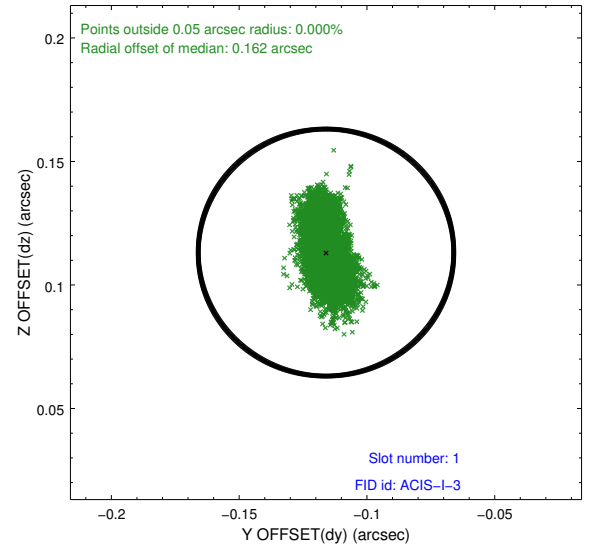
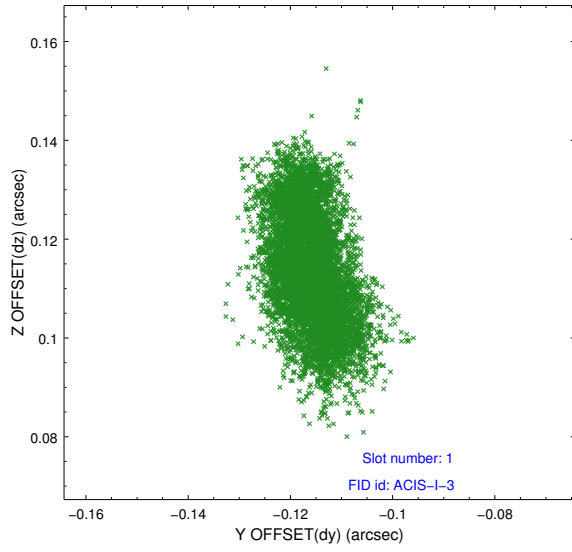


2.5 FID Slots

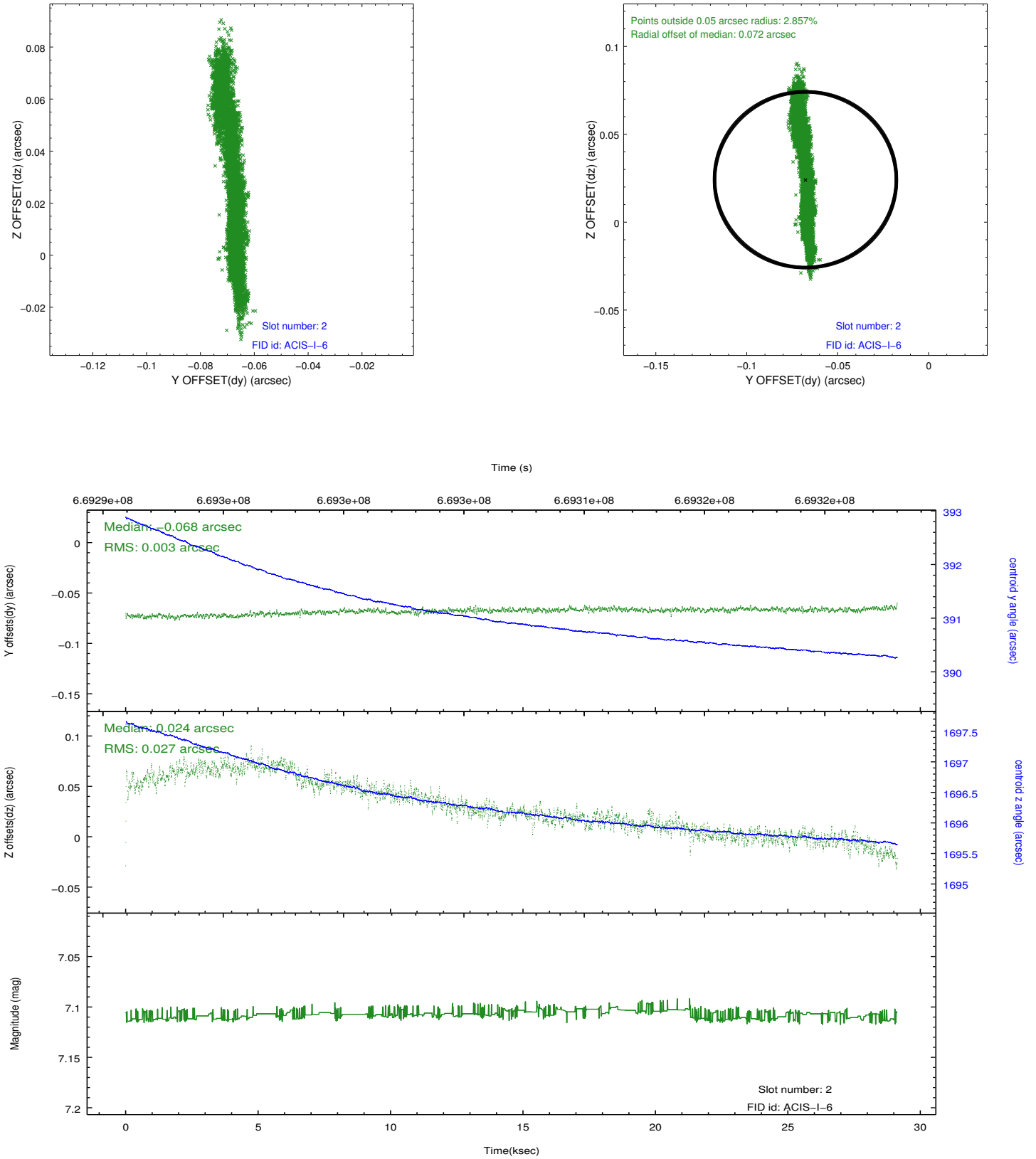
2.5.1 Slot 0



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)	2019.03.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.067701791763

A.2 Comments