

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19556 - L2 Version 1
Chandra X-Ray Center

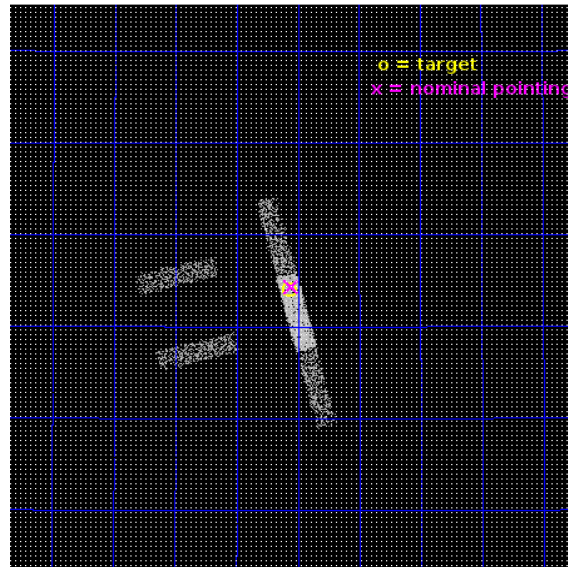
L2 Processing Date : Jan 31 2017

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1 Front

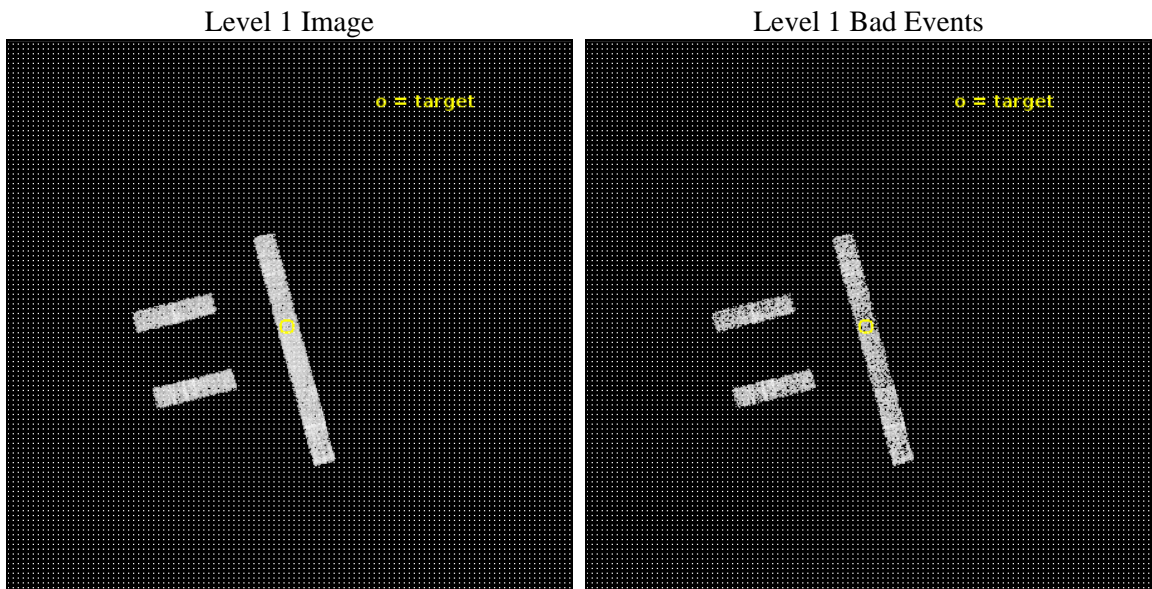
seq_num	703404	Sequence number
obs_id	19556	Observation id
title	Investigating X-ray Bias in Low-L, Low-z Quasars	Proposal title
observer	Gordon Richards	Principal investigator
object	SDSSJ145334.13+311401.4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	223.392083	Observer's specified target RA [deg]
dec_targ	31.233722	Observer's specified target Dec [deg]
ra_nom	223.38809110978	Nominal RA [deg]
dec_nom	31.239140689502	Nominal Dec [deg]
roll_nom	75.544402157044	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3103.9363728762	Sum of GTIs [s]
livetime	2981.5726320566	Livetime [s]
ontime2	3103.772212863	Sum of GTIs [s]
ontime3	3103.8542928696	Sum of GTIs [s]
ontime6	3103.8953329325	Sum of GTIs [s]
ontime7	3103.9363728762	Sum of GTIs [s]
ontime8	3103.8132529259	Sum of GTIs [s]
l2events	5604	Number of level 2 events



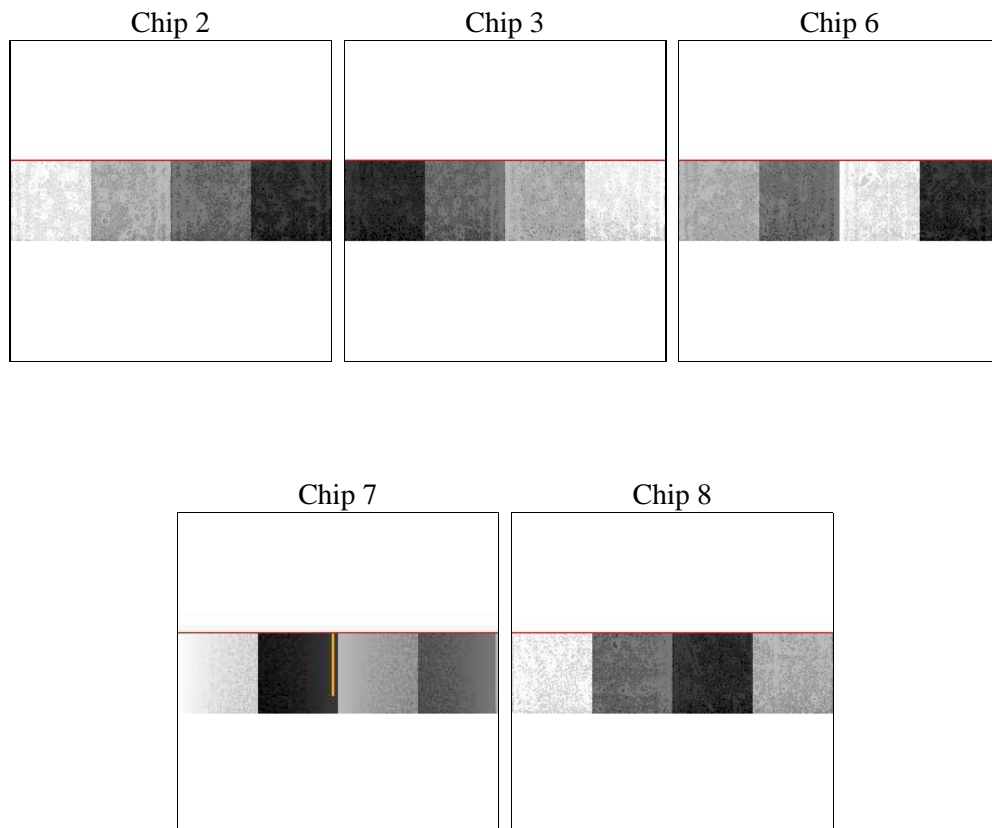
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3035.176000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	3103.9363728762	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	3103.772212863	Sum of GTIs [s]
date	2017-02-01T01:16:17	Date and time of file creation	ontime3	3103.8542928696	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3103.8953329325	Sum of GTIs [s]
			ontime7	3103.9363728762	Sum of GTIs [s]
			ontime8	3103.8132529259	Sum of GTIs [s]
			l1events	35122	Number of level 1 events

2.1.4 Events

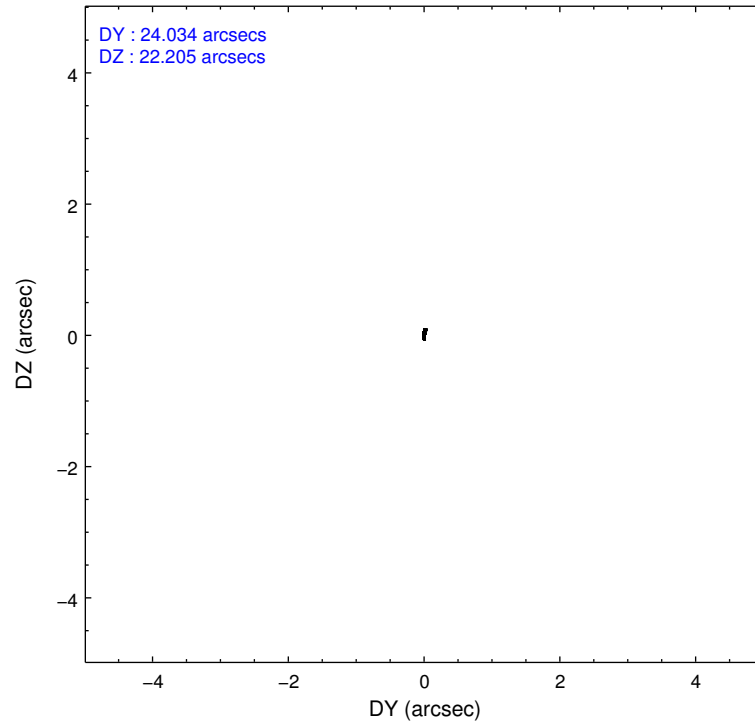
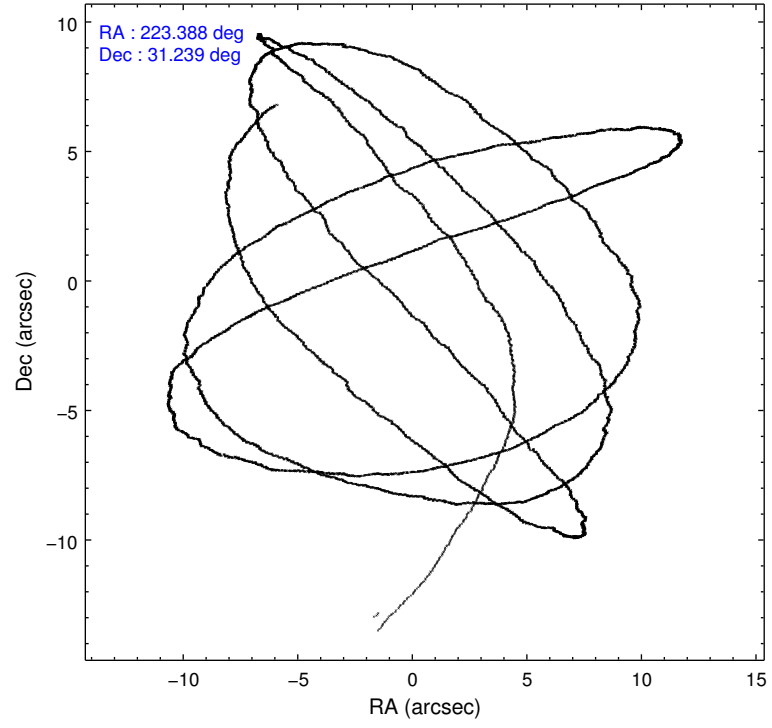
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	5659	6695	6623	7736	8409
rejected events	5003	6094	5811	4292	6582
rejected %	88%	91%	87%	55%	78%

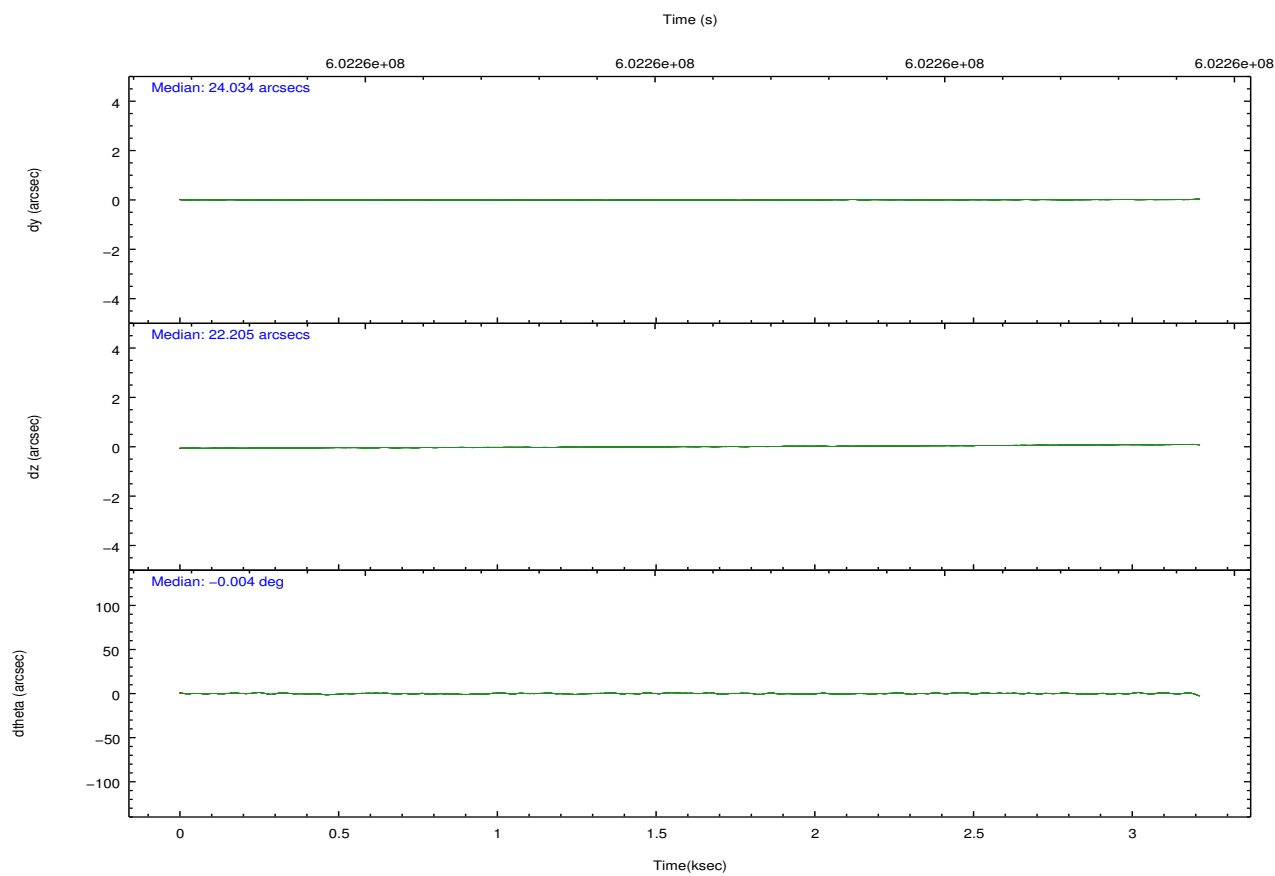
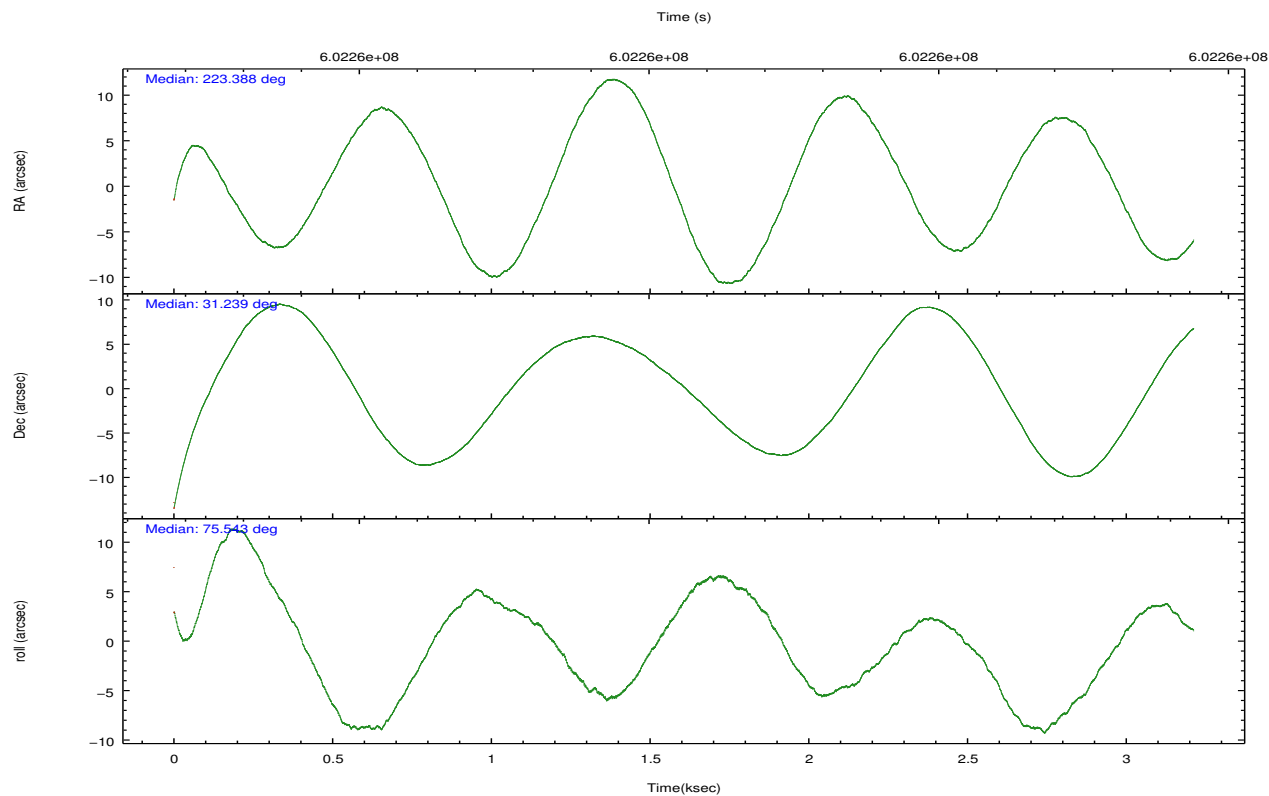
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	218	177	261	294	534
	3%	2%	3%	3%	6%
grade 1 events	2	3	3	11	6
	0%	0%	0%	0%	0%
grade 2 events	104	123	179	700	381
	1%	1%	2%	9%	4%
grade 3 events	128	108	114	349	227
	2%	1%	1%	4%	2%
grade 4 events	94	76	110	361	206
	1%	1%	1%	4%	2%
grade 5 events	206	282	257	721	420
	3%	4%	3%	9%	4%
grade 6 events	112	117	148	1741	482
	1%	1%	2%	22%	5%
grade 7 events	4795	5809	5551	3559	6153
	84%	86%	83%	46%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	223.397208	223.3880911097765	CCD I2 on	O1	Y
[deg] Pointing Dec	31.212791	31.23914068950237	CCD I3 on	Y	Y
[deg] Pointing Roll	75.383071	75.54440215704399	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	602255683.184000	602254735.86615	CCD S5 on	N	N
Observation start date	2017-01-31T13:13:34	2017-01-31T12:58:55	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	602258719.184000	602258946.56639	On-chip summing requested	N	N
Observation end date	2017-01-31T14:04:10	2017-01-31T14:09:06	Subarray requested	CUSTOM	1/4
Read mode	TIMED	TIMED	Subarray start row	385	385
			Subarray row count	256	256
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1

2.3 Aspect



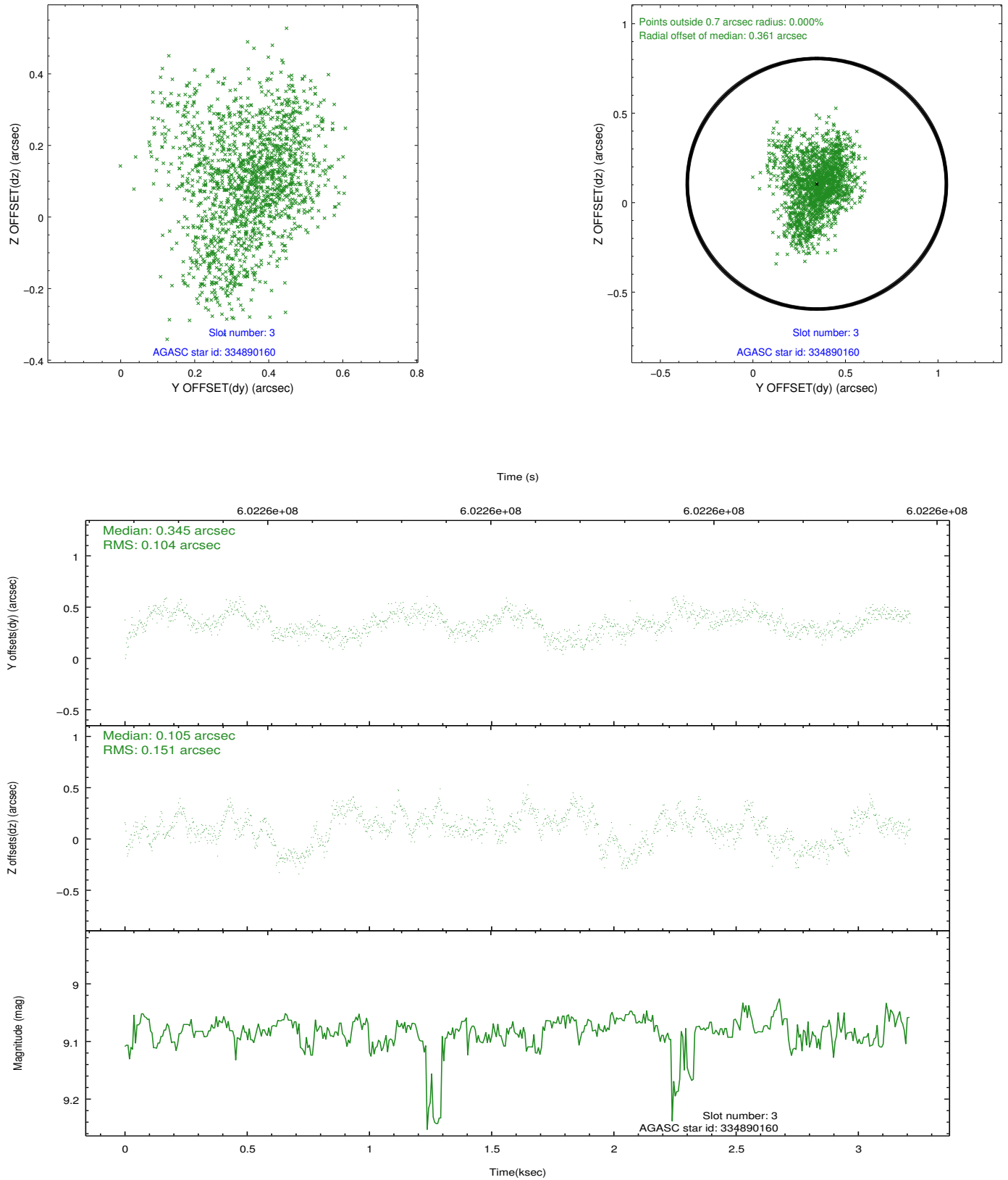


Slot Statistics

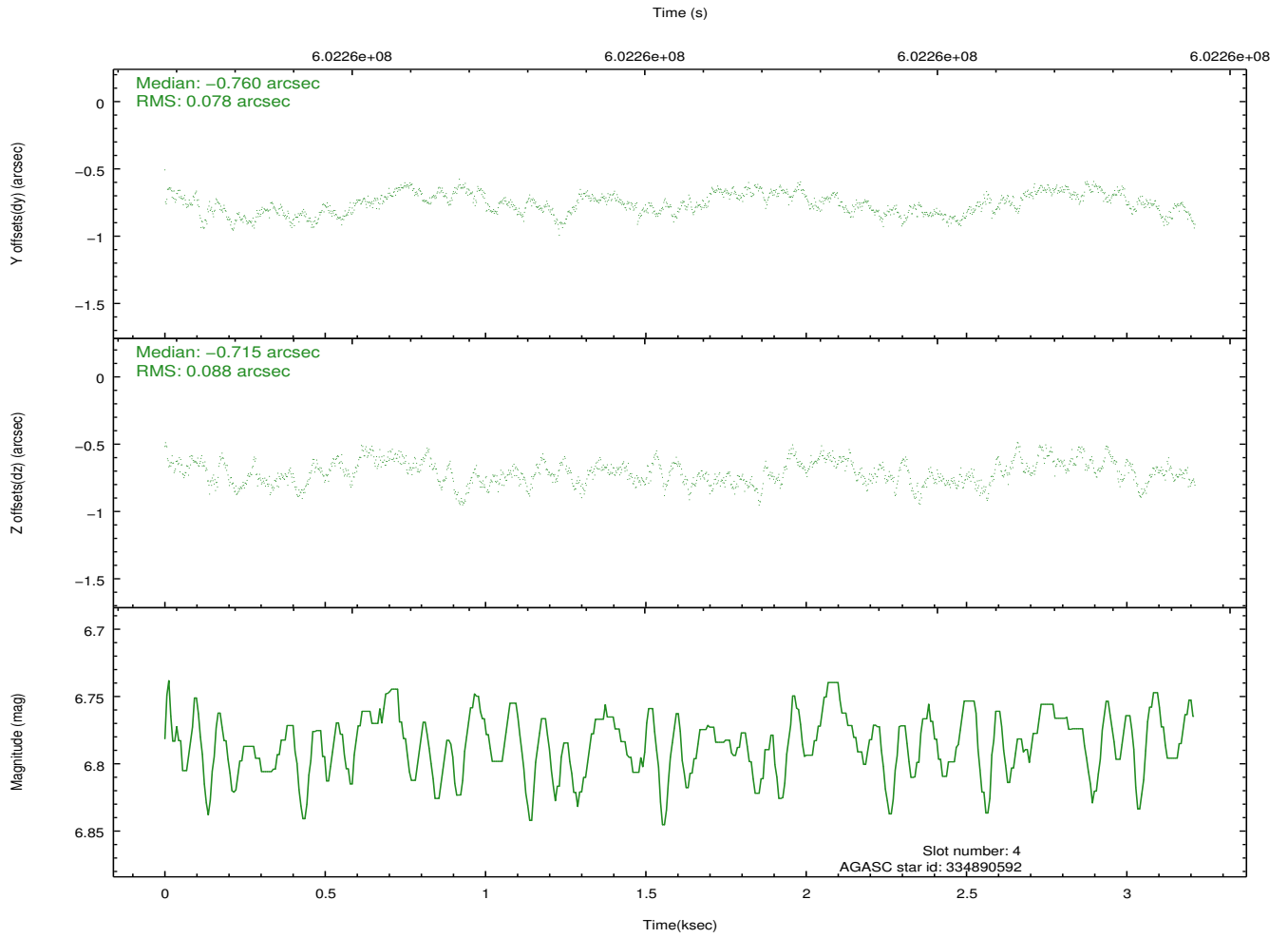
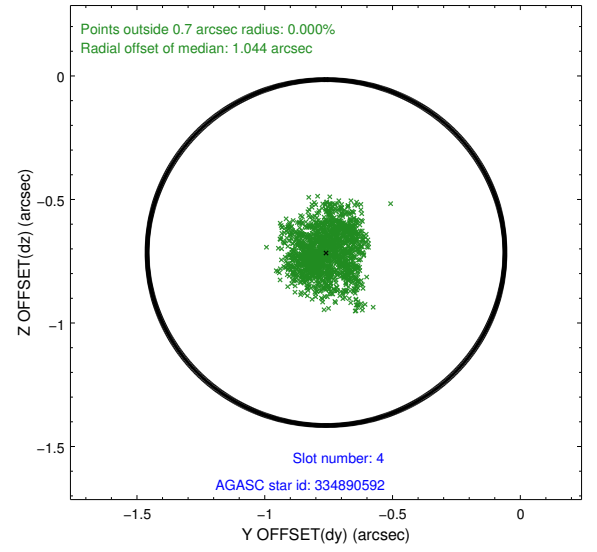
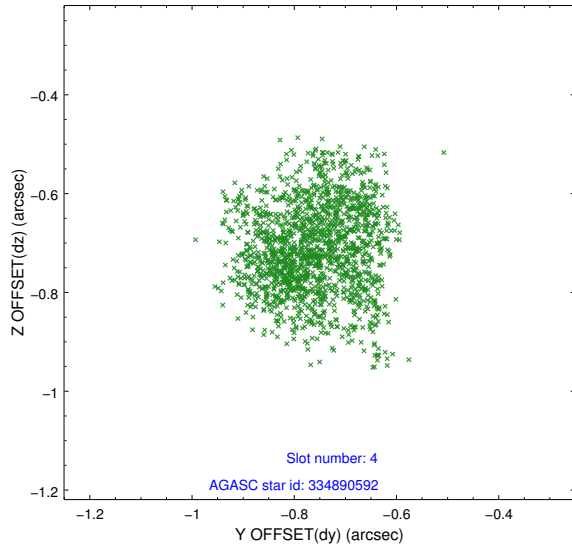
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.14	784	-0.274	-0.185	0.007	0.011	0.000000	0.000000	-777.53	-1743.91
1	FID		ACIS-S-4	7.25	784	0.626	0.182	0.005	0.010	0.000000	0.000000	2135.73	162.86
2	FID		ACIS-S-5	7.26	784	-0.383	0.013	0.006	0.011	0.000000	0.000000	-1827.95	158.63
3	GUIDE	used	334890160	9.08	1564	0.345	0.105	0.195	0.316	223.432027	30.958050	-859.65	-335.55
4	GUIDE	used	334890592	6.78	1567	-0.760	-0.715	0.129	0.192	223.182348	31.925021	2314.89	1281.45
5	GUIDE	used	334894296	8.57	1568	0.231	0.179	0.113	0.174	224.035481	31.143215	261.66	-1964.02
6	GUIDE	used	334896136	7.97	1567	-0.366	-0.073	0.095	0.163	223.597750	31.758069	2055.31	-98.50
7	GUIDE	used	334899312	9.02	1563	0.557	0.507	0.132	0.211	223.895672	30.642420	-1591.52	-2010.90

2.4 Star Slots

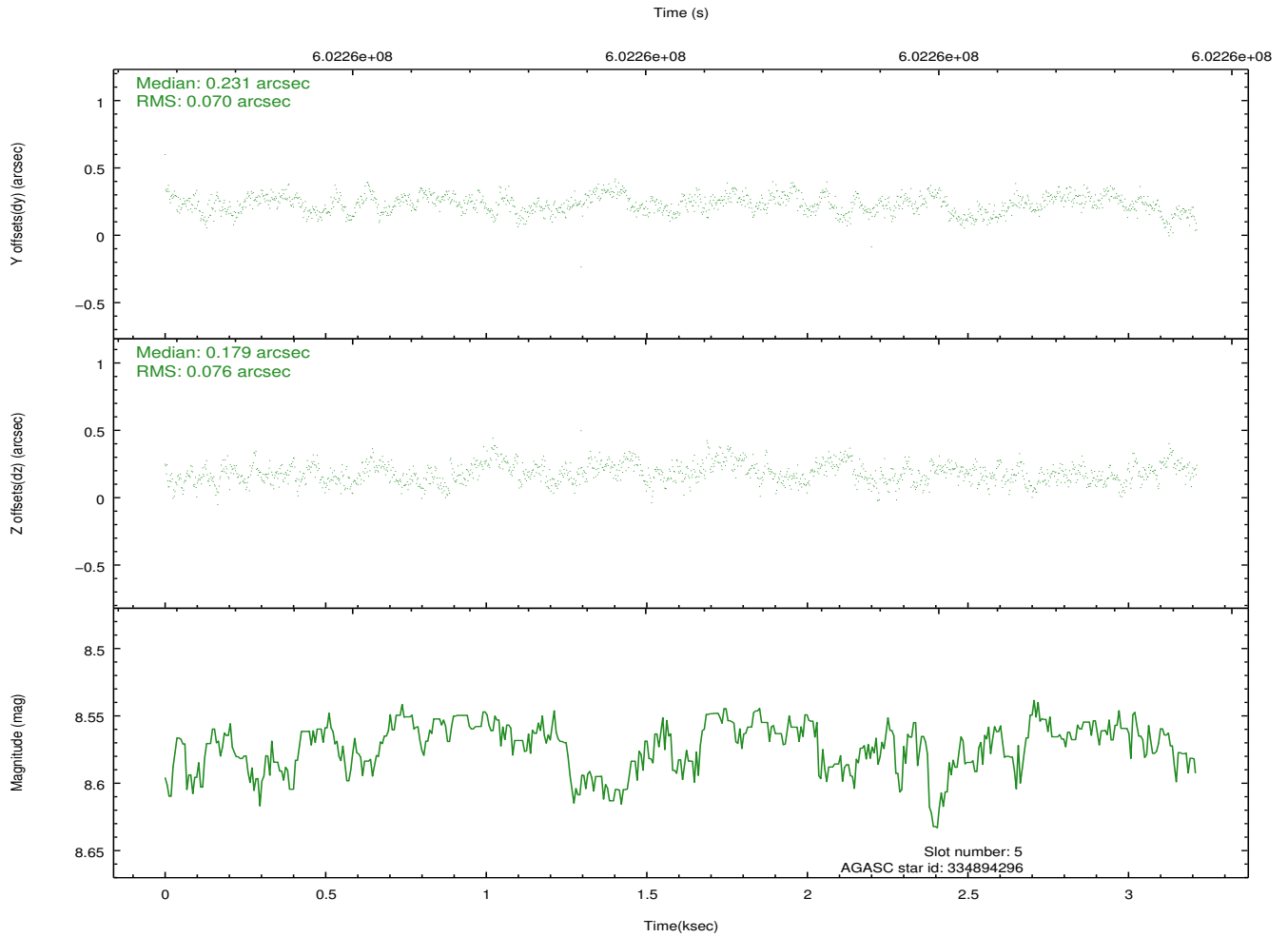
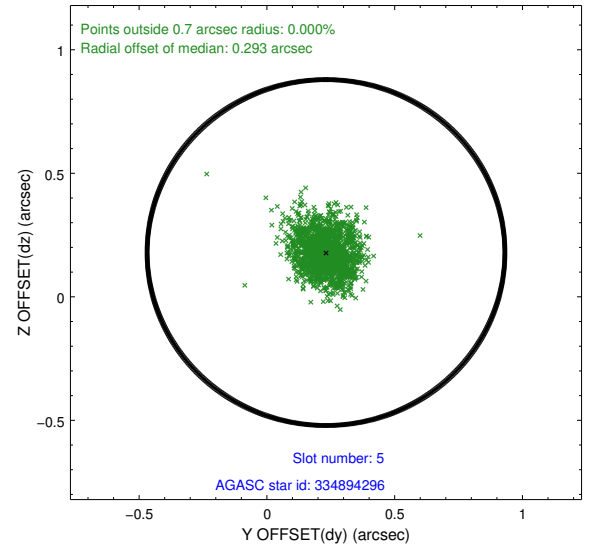
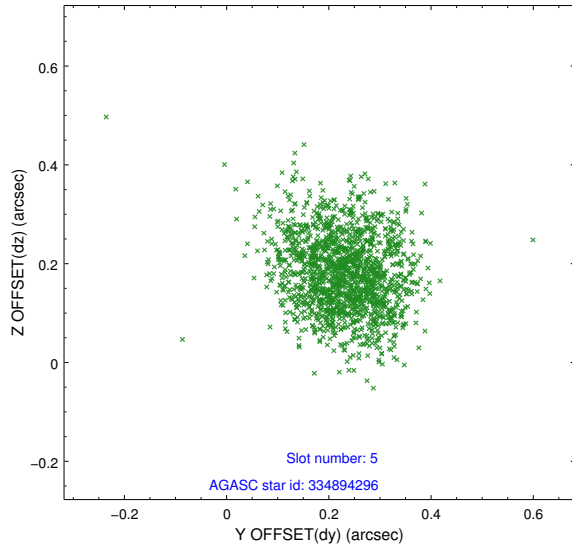
2.4.1 Slot 3



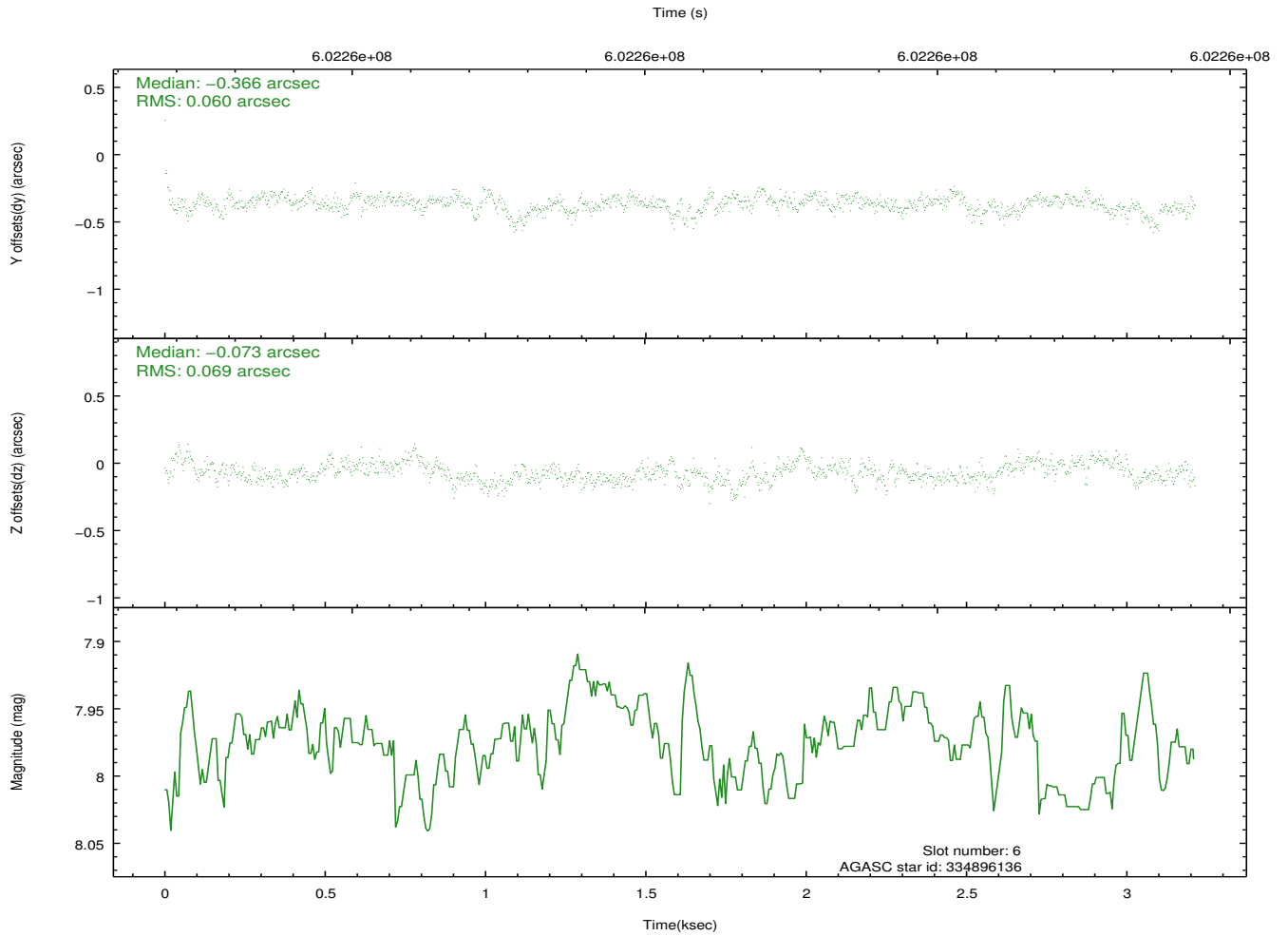
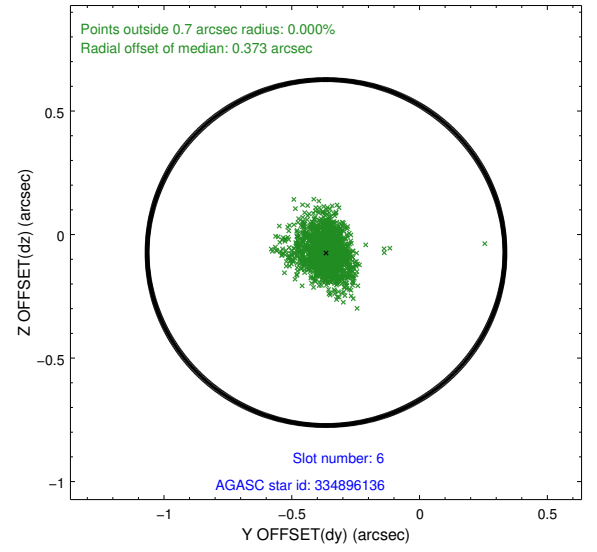
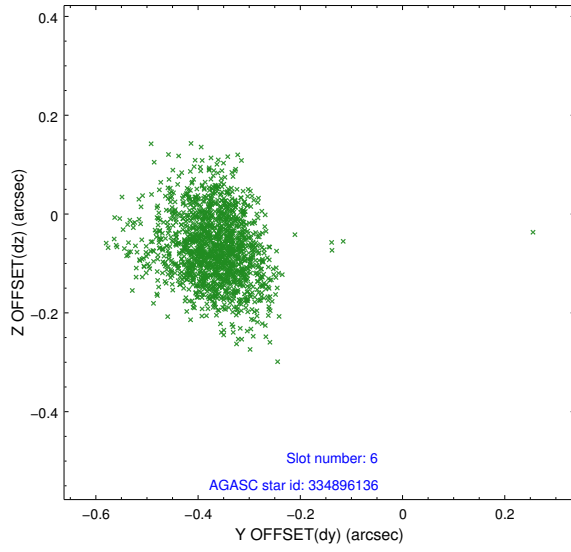
2.4.2 Slot 4



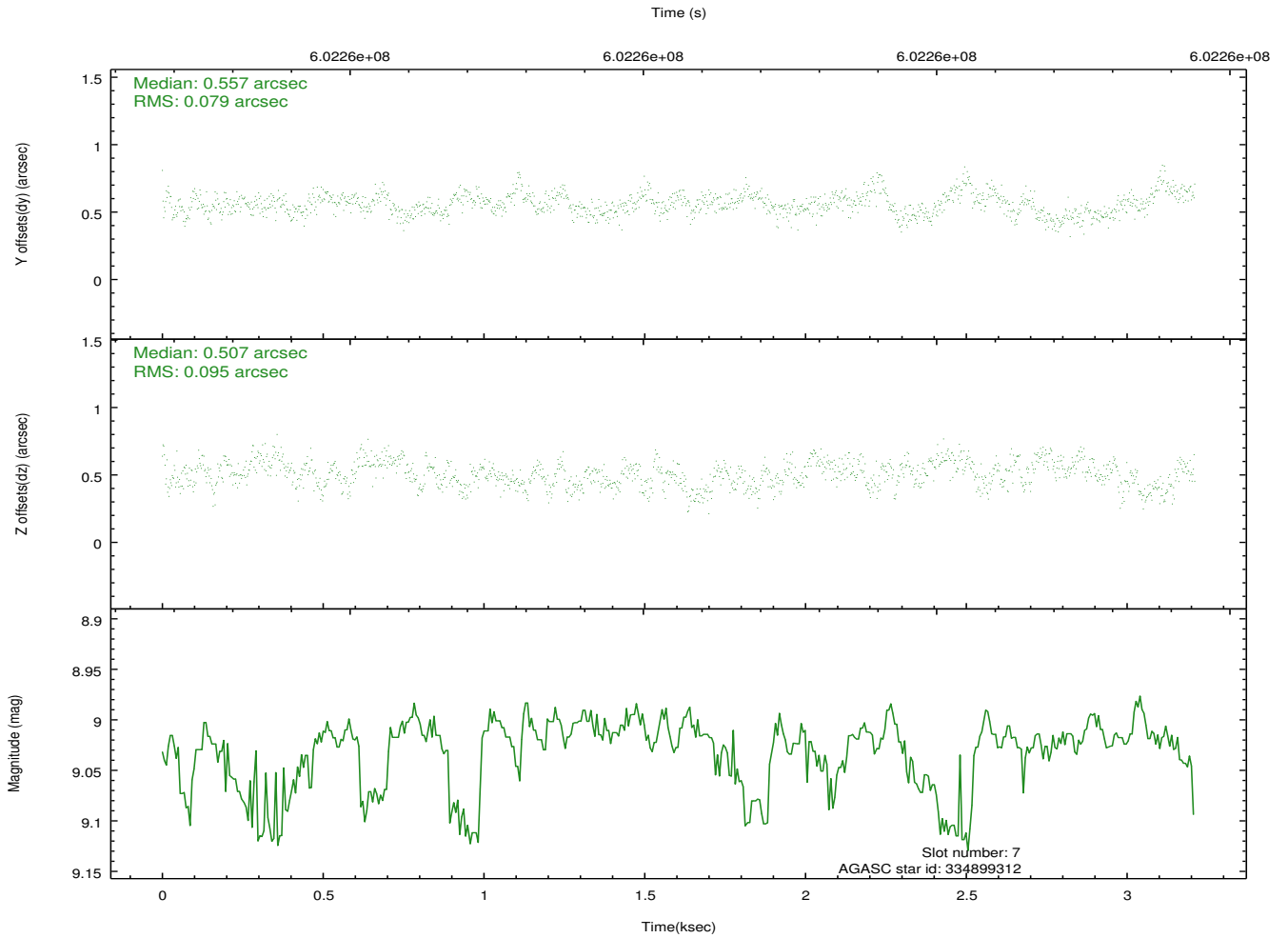
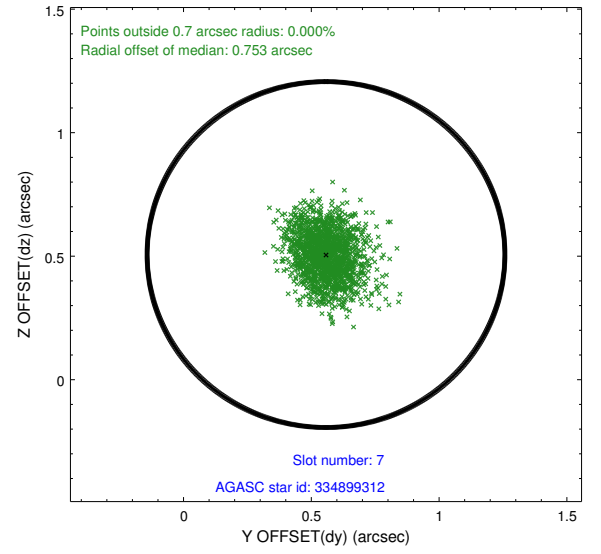
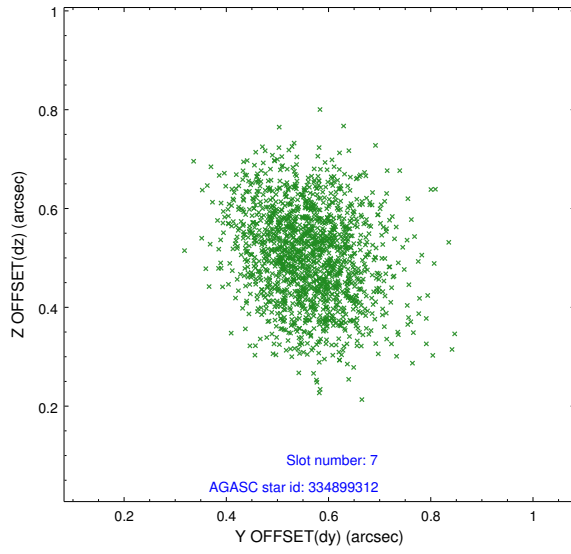
2.4.3 Slot 5



2.4.4 Slot 6

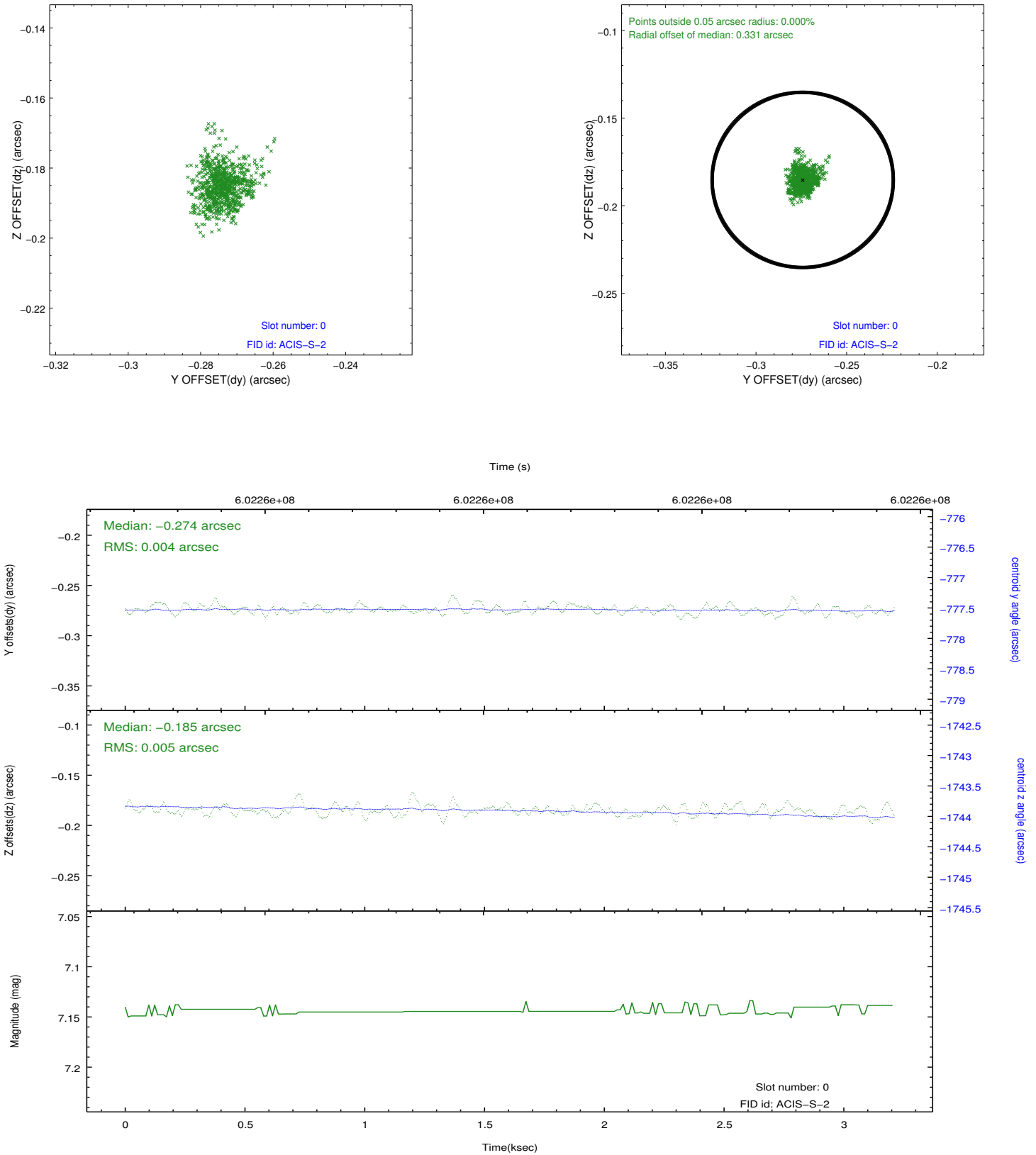


2.4.5 Slot 7

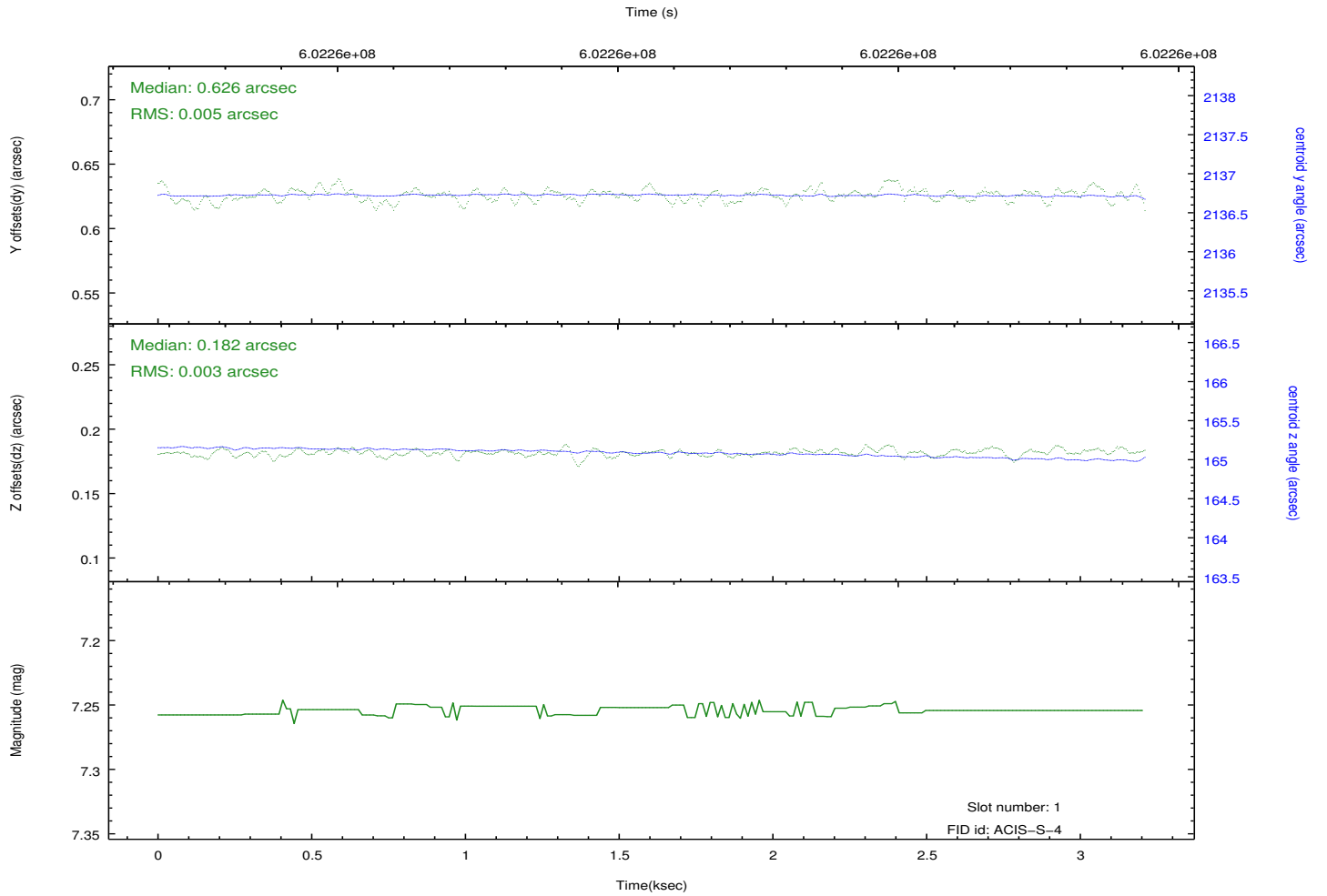
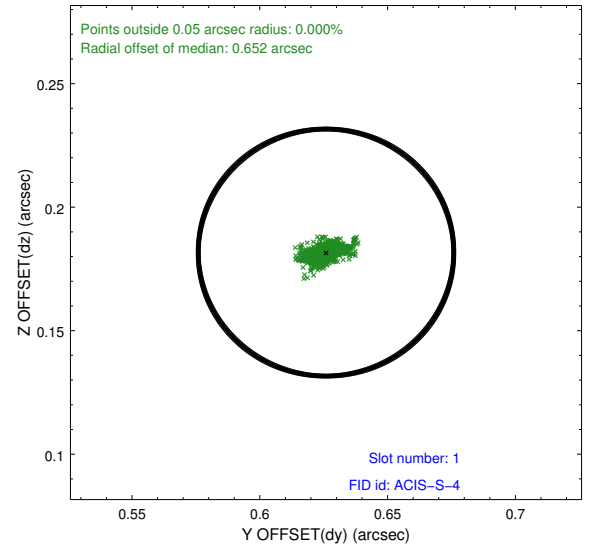
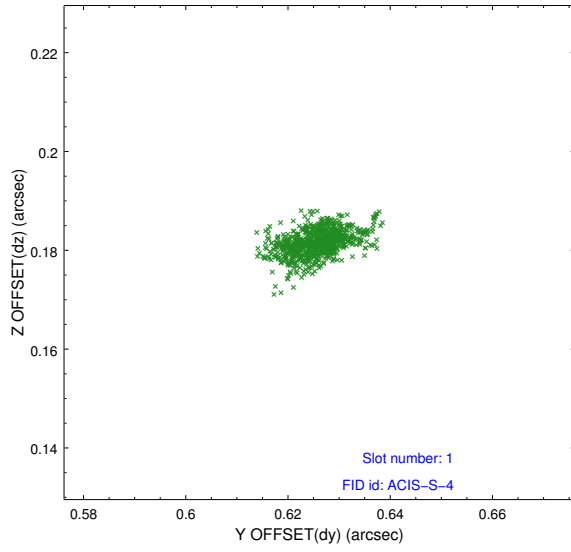


2.5 FID Slots

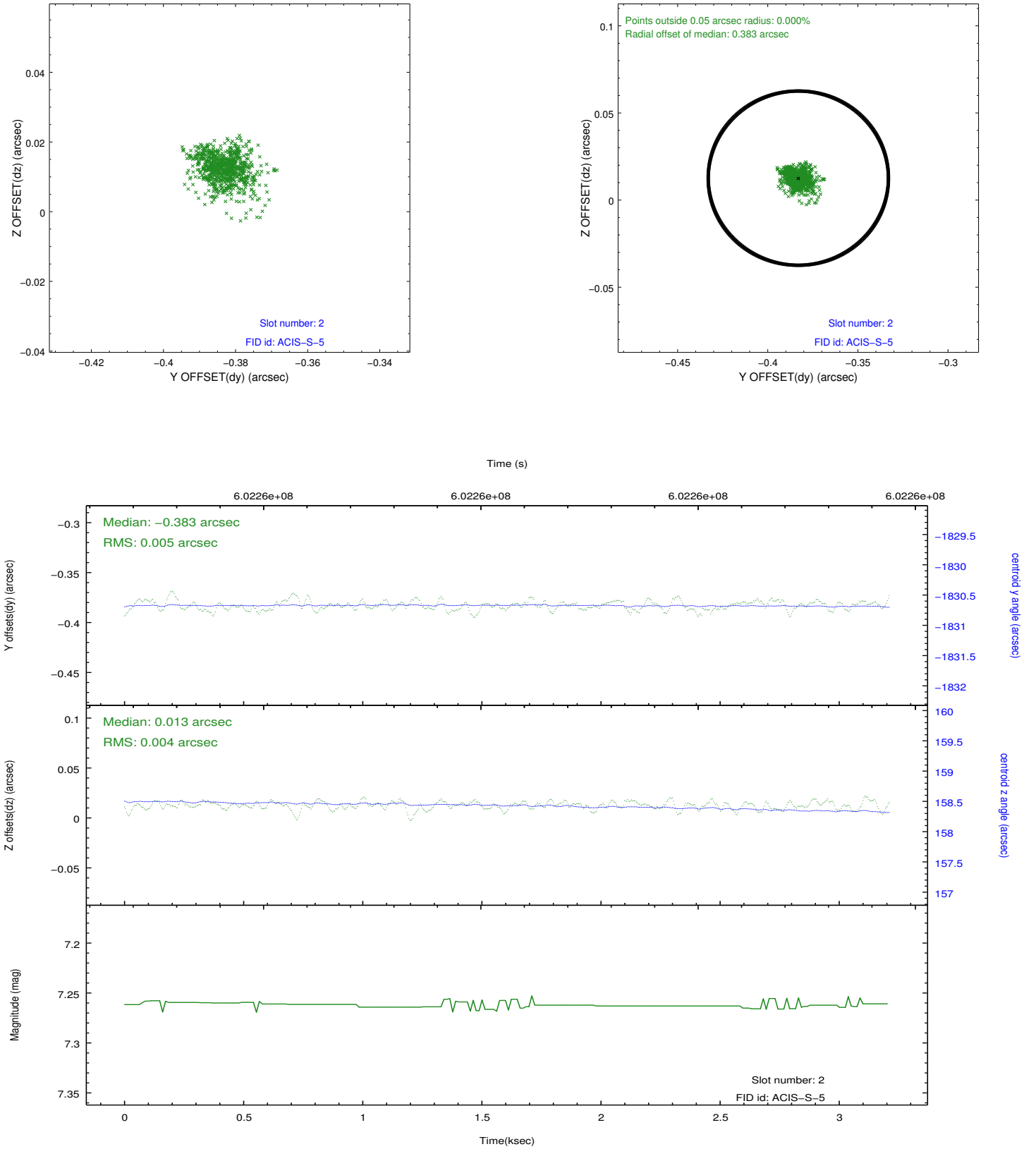
2.5.1 Slot 0



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)	2017.02.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1039363728762

A.2 Comments