

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 22632 - L2 Version 1
Chandra X-Ray Center

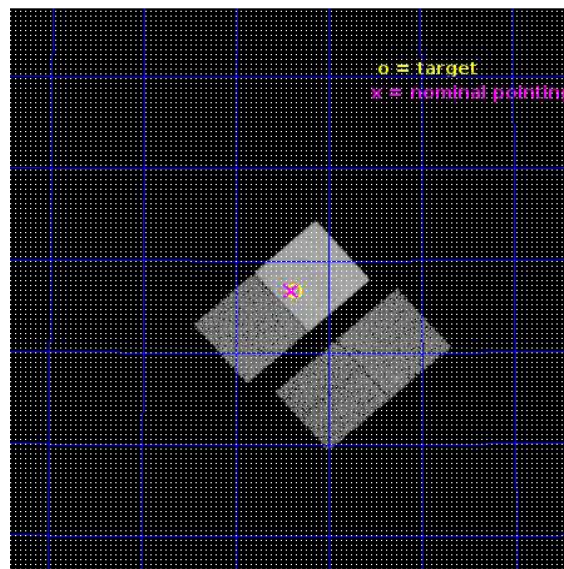
L2 Processing Date : Dec 24 2019

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1 Front

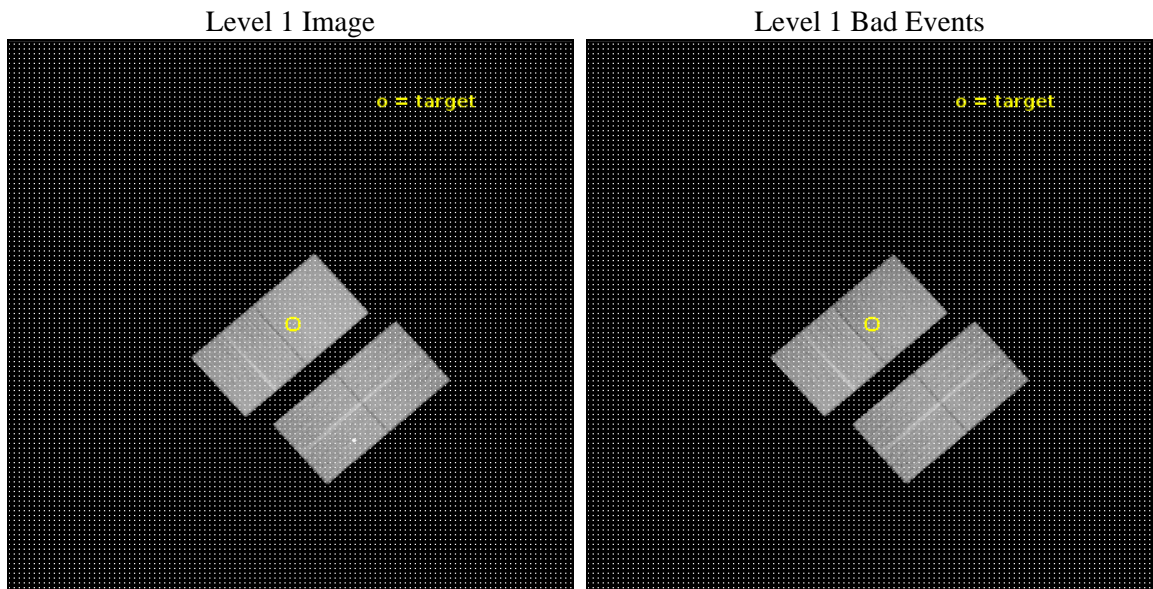
seq_num	704016	Sequence number
obs_id	22632	Observation id
title	XRAYING THE UNKNOWN 3CR EXTRAGALACTIC SKY	Proposal title
observer	Francesco Massaro	Principal investigator
object	3CR 428	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	317.092083	Observer's specified target RA [deg]
dec_targ	49.611444	Observer's specified target Dec [deg]
ra_nom	317.10024524669	Nominal RA [deg]
dec_nom	49.612467504036	Nominal Dec [deg]
roll_nom	318.64300224261	Nominal Roll [deg]
revision	1	Processing version of data
ontime	21064.500162125	Sum of GTIs [s]
livetime	20789.276960047	Livetime [s]
ontime2	21064.500162125	Sum of GTIs [s]
ontime3	21064.500162125	Sum of GTIs [s]
ontime6	21064.500162125	Sum of GTIs [s]
ontime7	21064.500162125	Sum of GTIs [s]
l2events	132342	Number of level 2 events



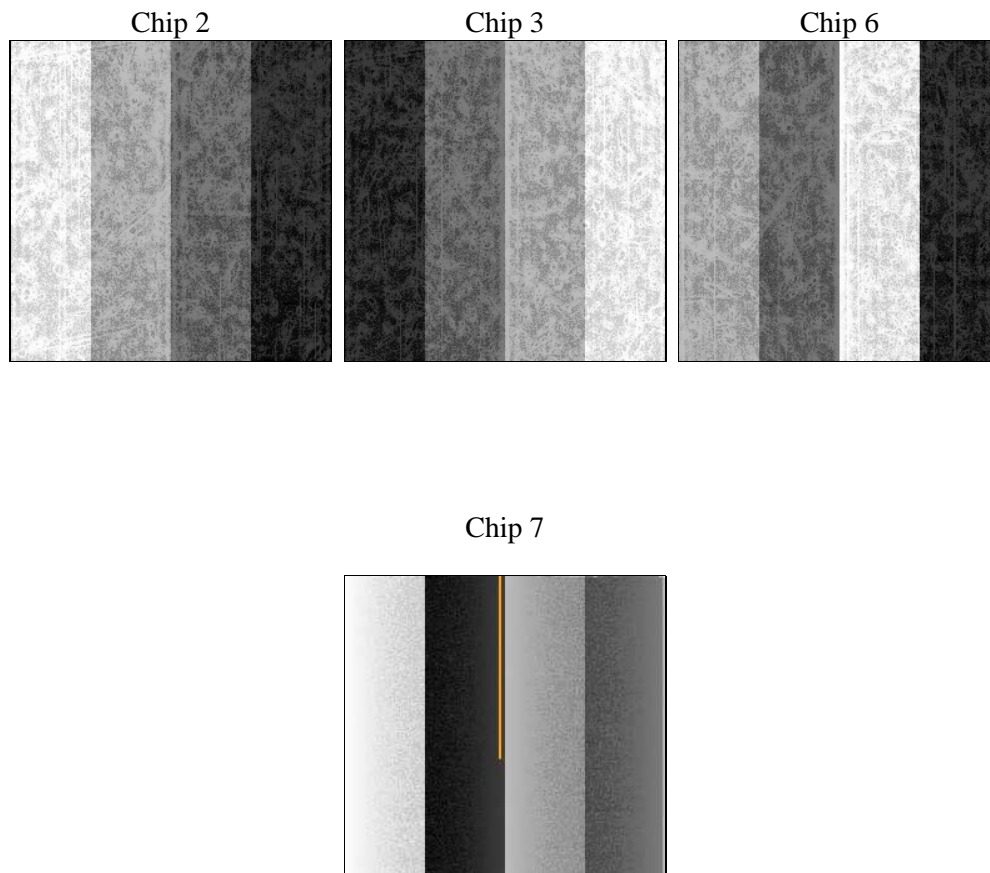
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	21064.500162125	Sum of GTIs [s]
caldbver	4.8.4.2	 	ontime2	21064.500162125	Sum of GTIs [s]
date	2019-12-24T04:57:29	Date and time of file creation	ontime3	21064.500162125	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	21064.500162125	Sum of GTIs [s]
			ontime7	21064.500162125	Sum of GTIs [s]
			l1events	704779	Number of level 1 events

2.1.4 Events

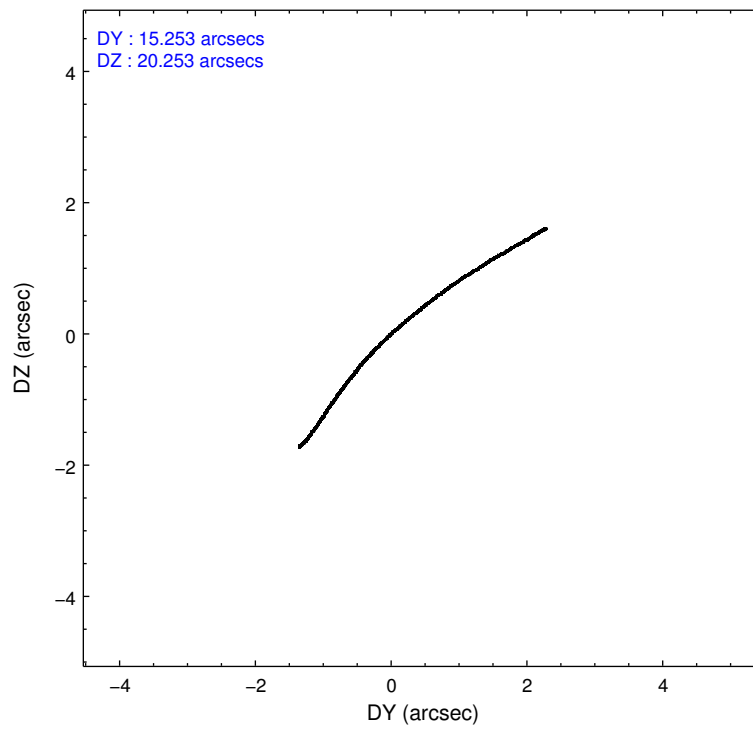
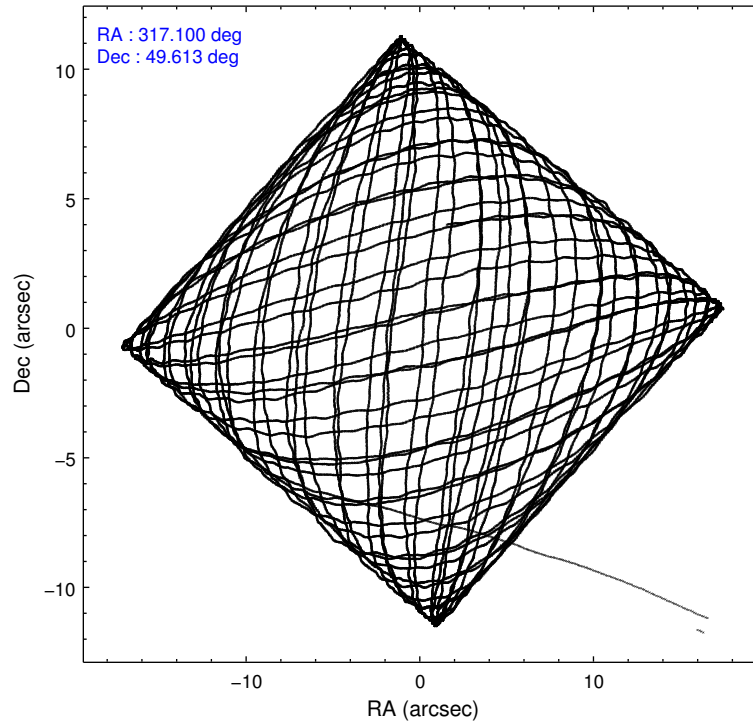
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	168497	156618	170937	208727
rejected events	145442	139926	152788	118910
rejected %	86%	89%	89%	56%

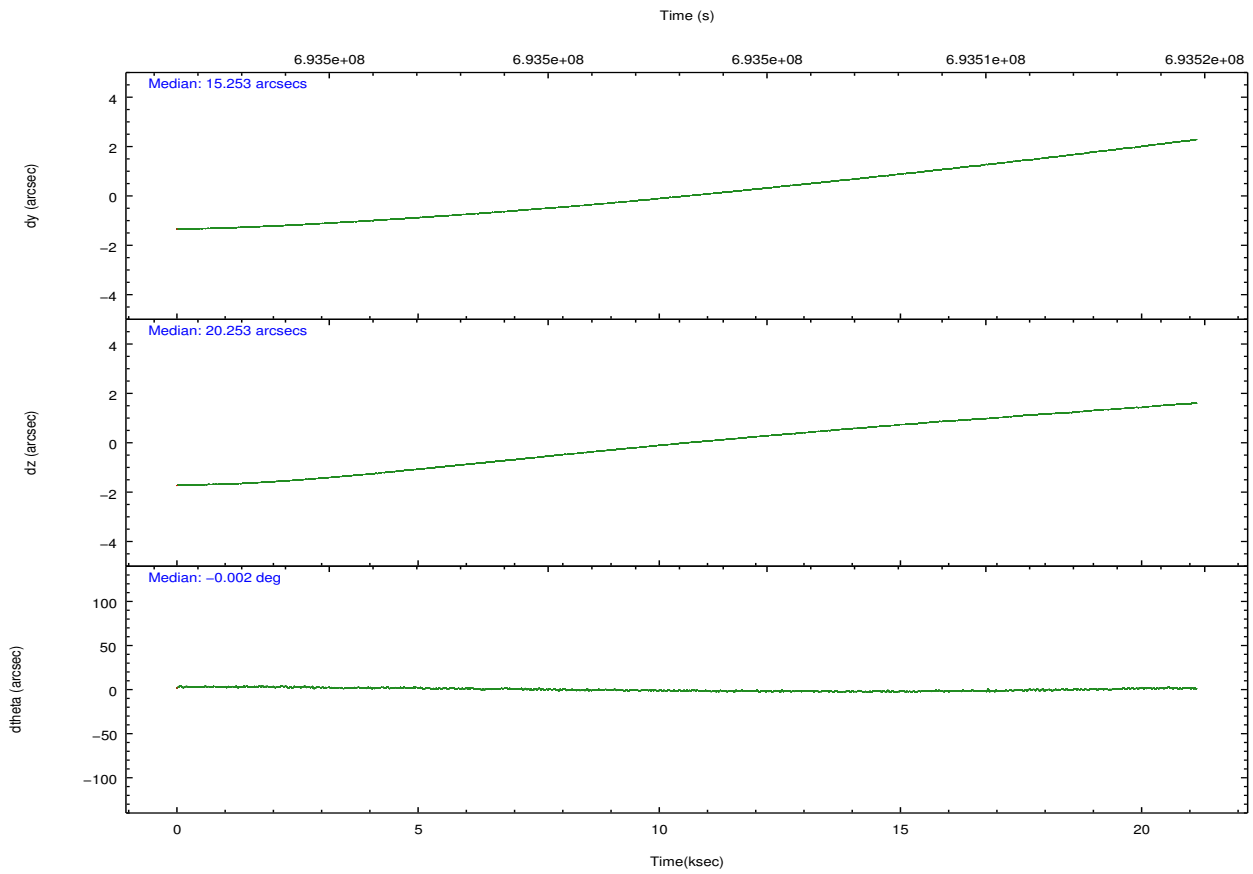
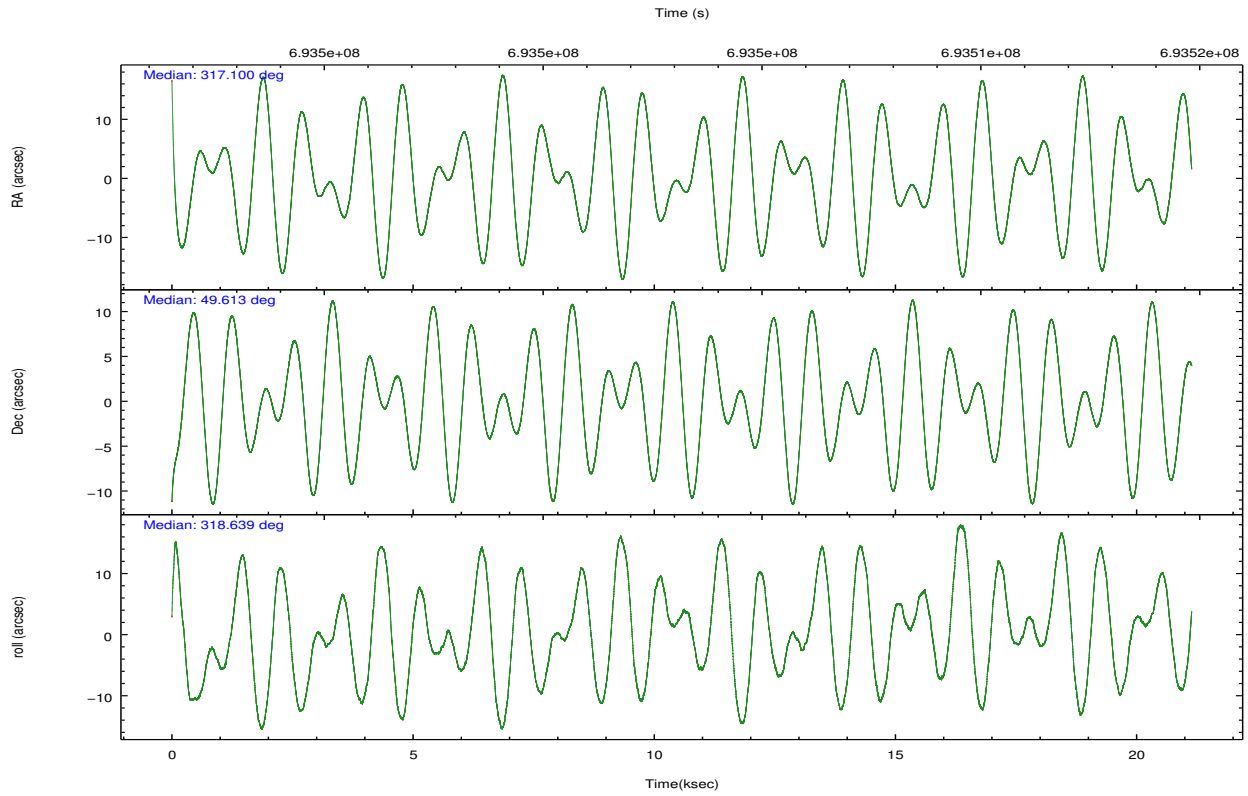
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	12139	5872	5228	7581
	7%	3%	3%	3%
grade 1 events	133	84	62	313
	0%	0%	0%	0%
grade 2 events	4036	3751	4876	19006
	2%	2%	2%	9%
grade 3 events	1659	1664	1581	6868
	0%	1%	0%	3%
grade 4 events	1751	1679	1518	6777
	1%	1%	0%	3%
grade 5 events	6078	7089	6819	19878
	3%	4%	3%	9%
grade 6 events	3487	3730	4953	49608
	2%	2%	2%	23%
grade 7 events	139214	132749	145900	98696
	82%	84%	85%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	317.058589	317.100245246691	CCD I2 on	O1	Y
[deg] Pointing Dec	49.617517	49.61246750403573	CCD I3 on	O2	Y
[deg] Pointing Roll	318.518107	318.6430022426135	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	N	N
[s] Observation start time (MET)	693492744.184000	693491745.63631	CCD S5 on	N	N
Observation start date	2019-12-23T12:51:15	2019-12-23T12:35:45	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	693513744.184000	693514657.46269	On-chip summing requested	N	N
Observation end date	2019-12-23T18:41:15	2019-12-23T18:57:37	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





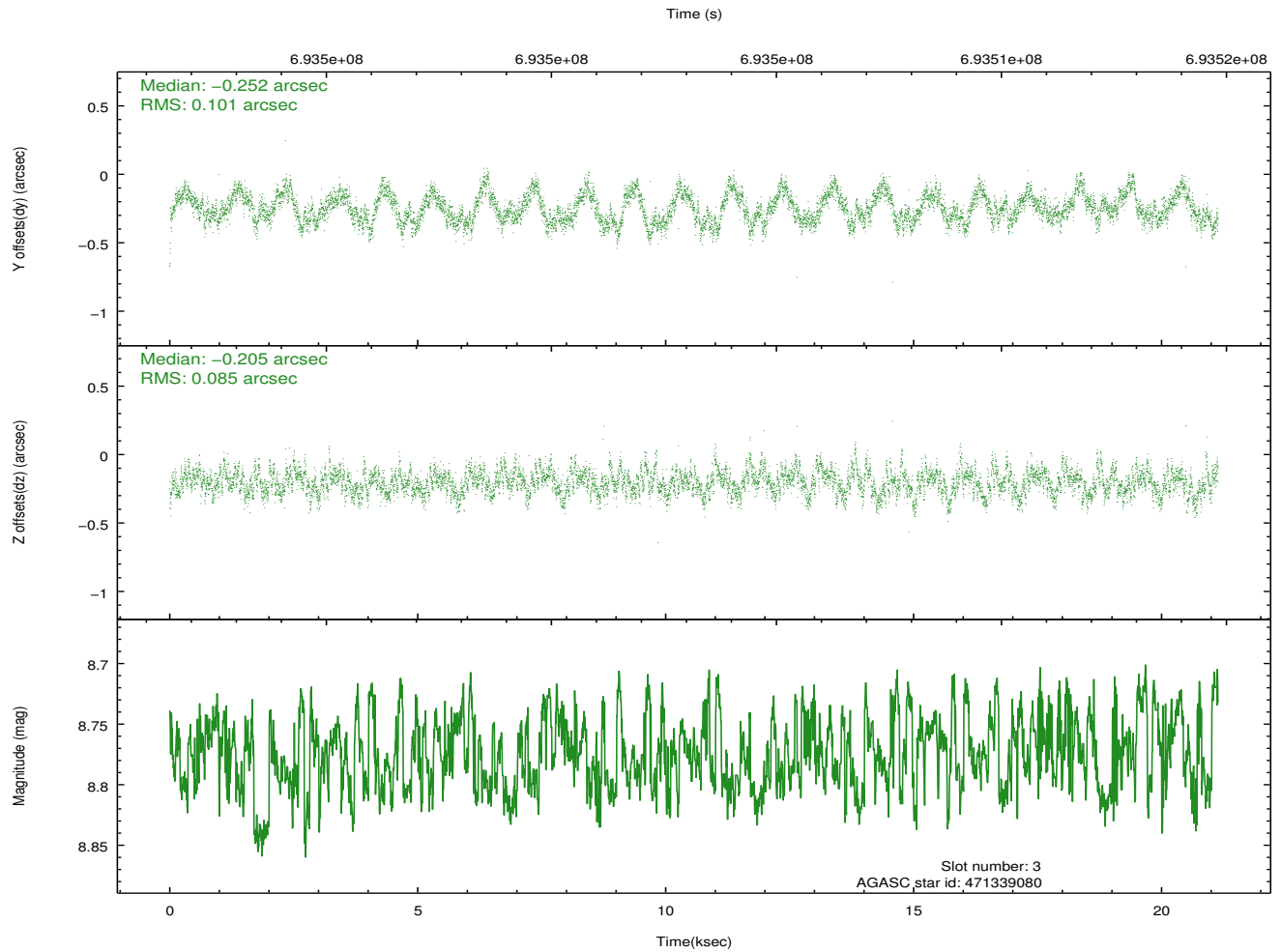
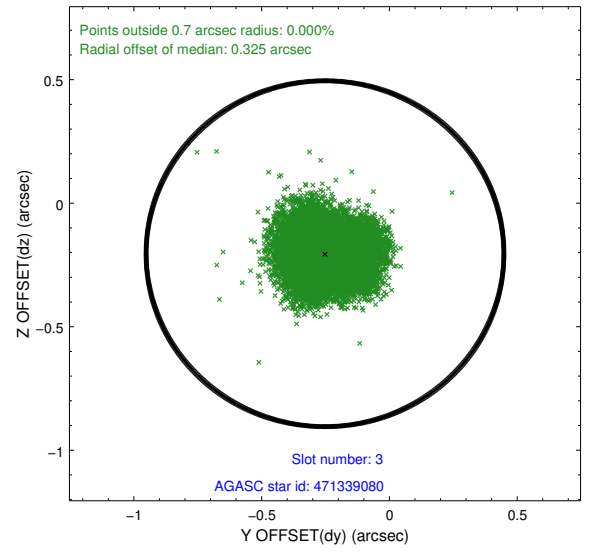
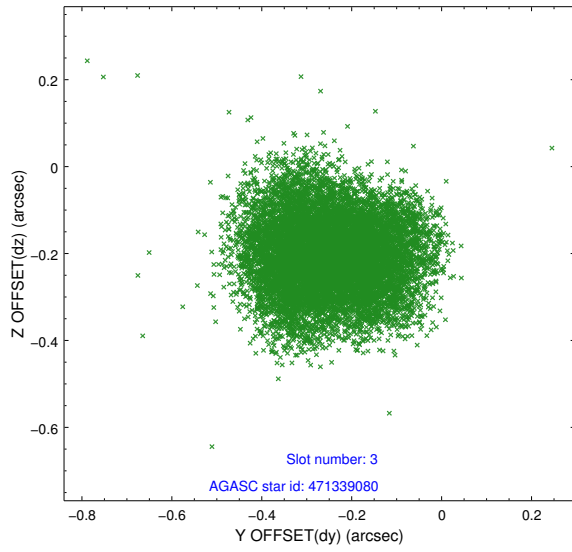
Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-3	7.36	5157	1.000	0.074	-0.180	0.032	0.059	0.000000	0.000000	44.82	-1870
1	FID		ACIS-S-5	7.19	5157	1.000	-0.452	0.003	0.027	0.042	0.000000	0.000000	-1821.86	160
2	FID		ACIS-S-6	7.37	5157	1.000	0.351	0.188	0.035	0.059	0.000000	0.000000	393.42	804
3	GUIDE	used	471339080	8.78	10305	1.000	-0.252	-0.205	0.144	0.218	317.687479	49.840436	558.27	1572
4	GUIDE	used	471344072	7.85	10308	1.000	-0.027	0.043	0.126	0.209	316.826430	49.790398	-816.12	109
5	GUIDE	used	471344832	7.66	10312	1.000	0.100	0.047	0.153	0.245	316.917065	48.855194	1567.49	-2278
6	GUIDE	used	471345592	8.97	10300	1.000	-0.025	0.235	0.154	0.273	317.069170	50.349798	-1727.74	1990
7	GUIDE	used	471346376	9.16	10295	1.000	0.185	-0.105	0.180	0.279	317.249202	49.790557	-80.64	761

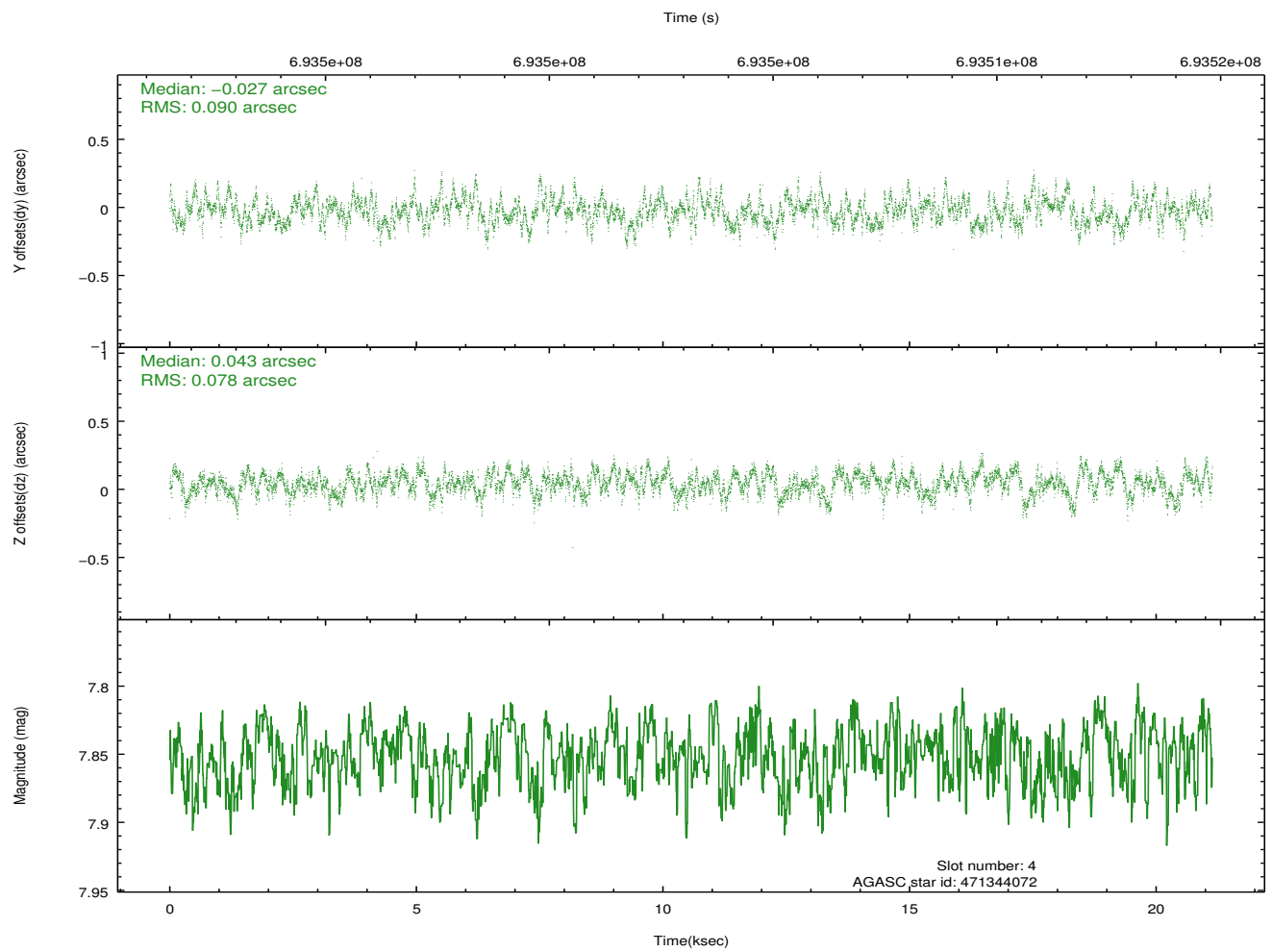
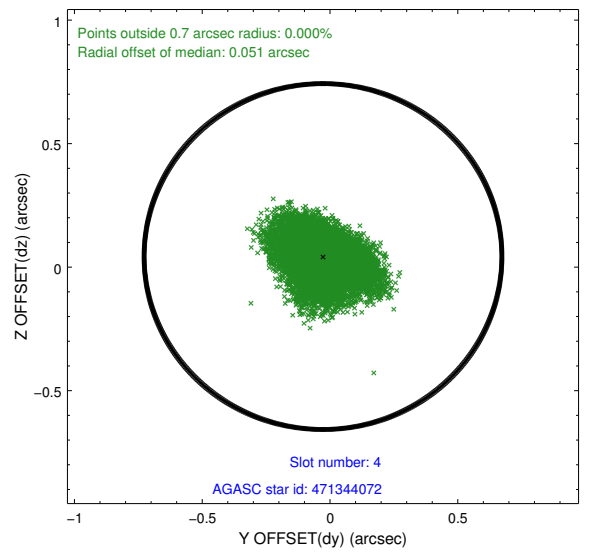
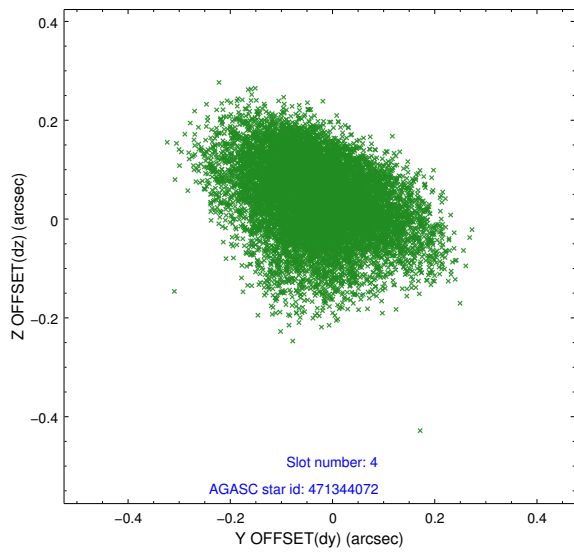
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2.4 Star Slots

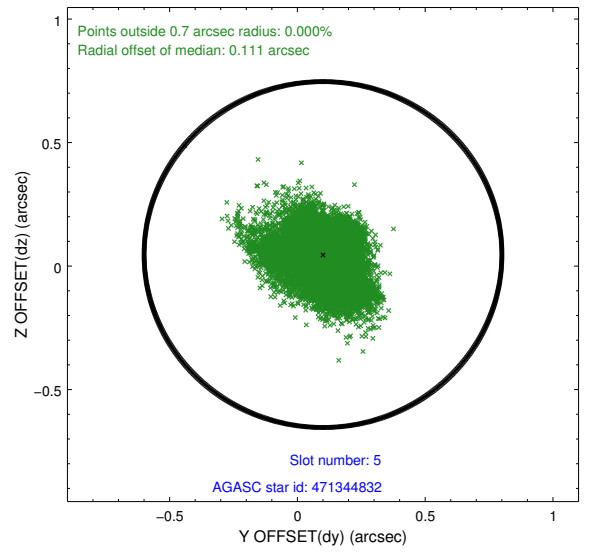
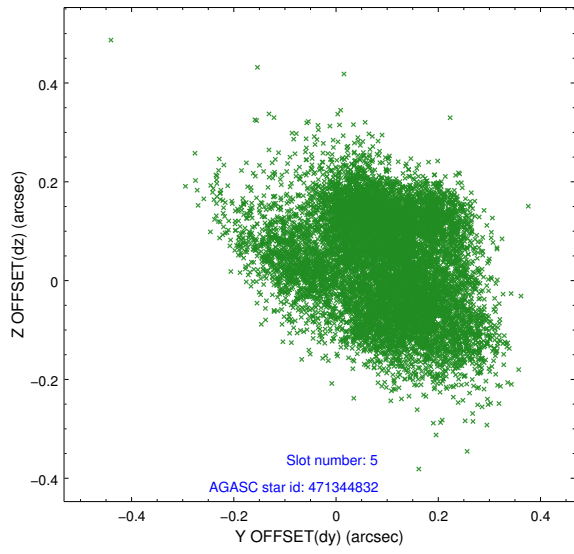
2.4.1 Slot 3



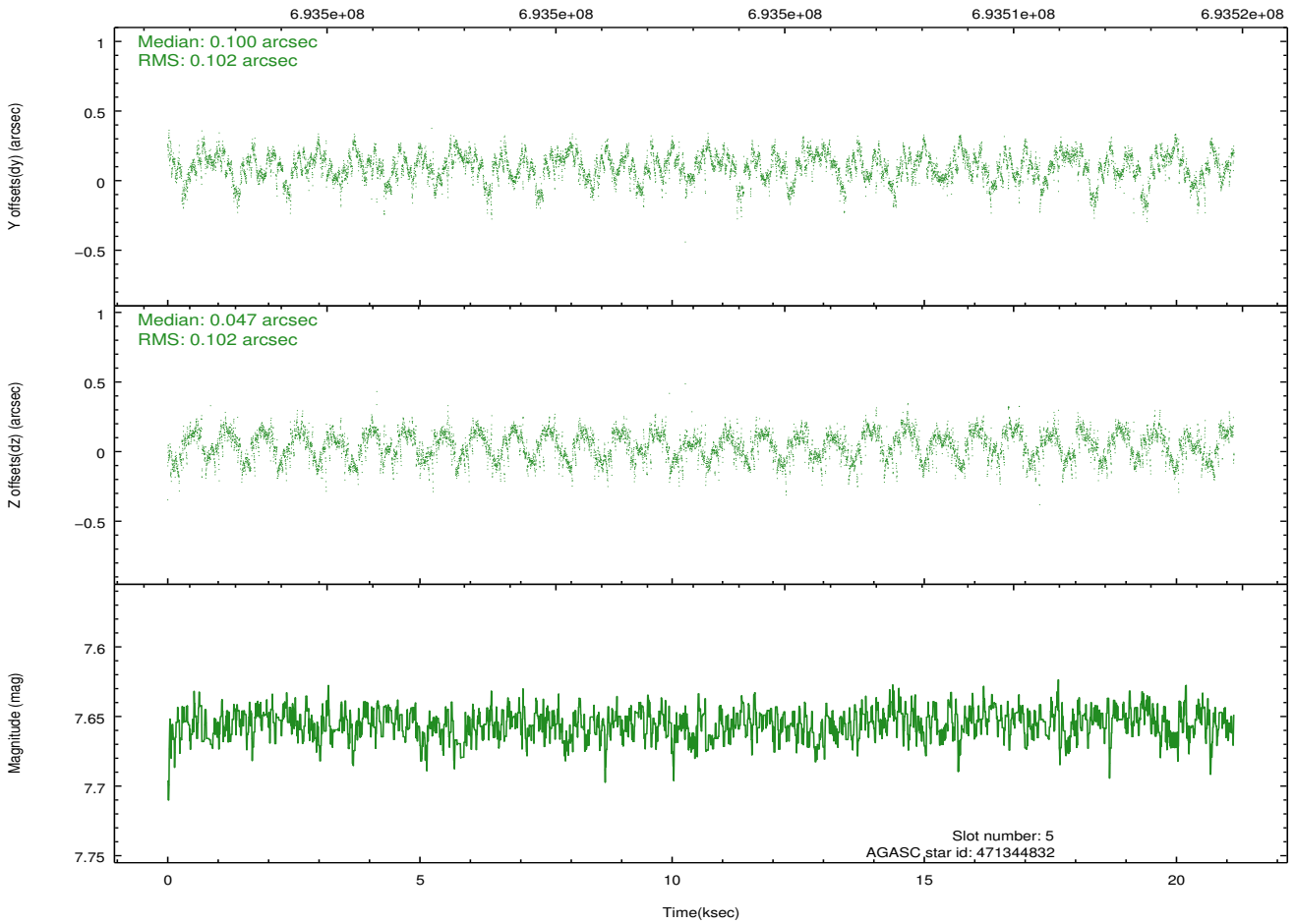
2.4.2 Slot 4



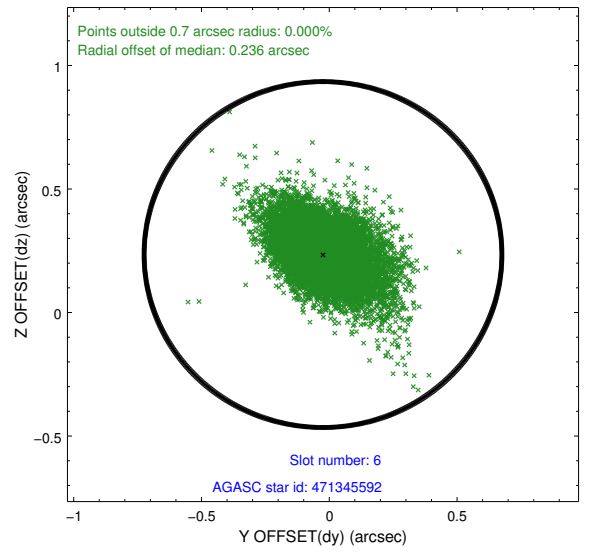
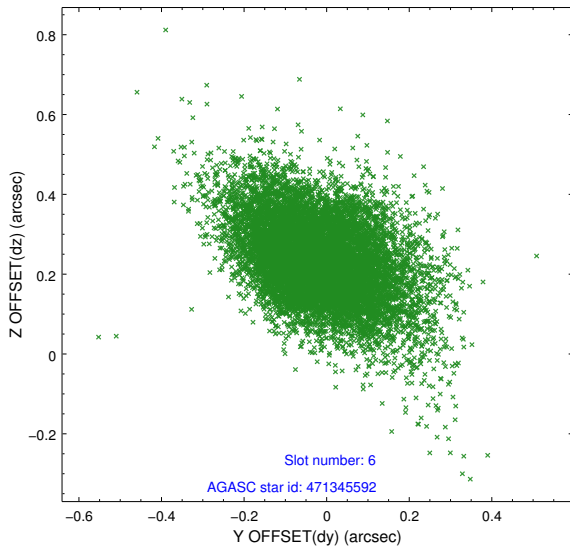
2.4.3 Slot 5



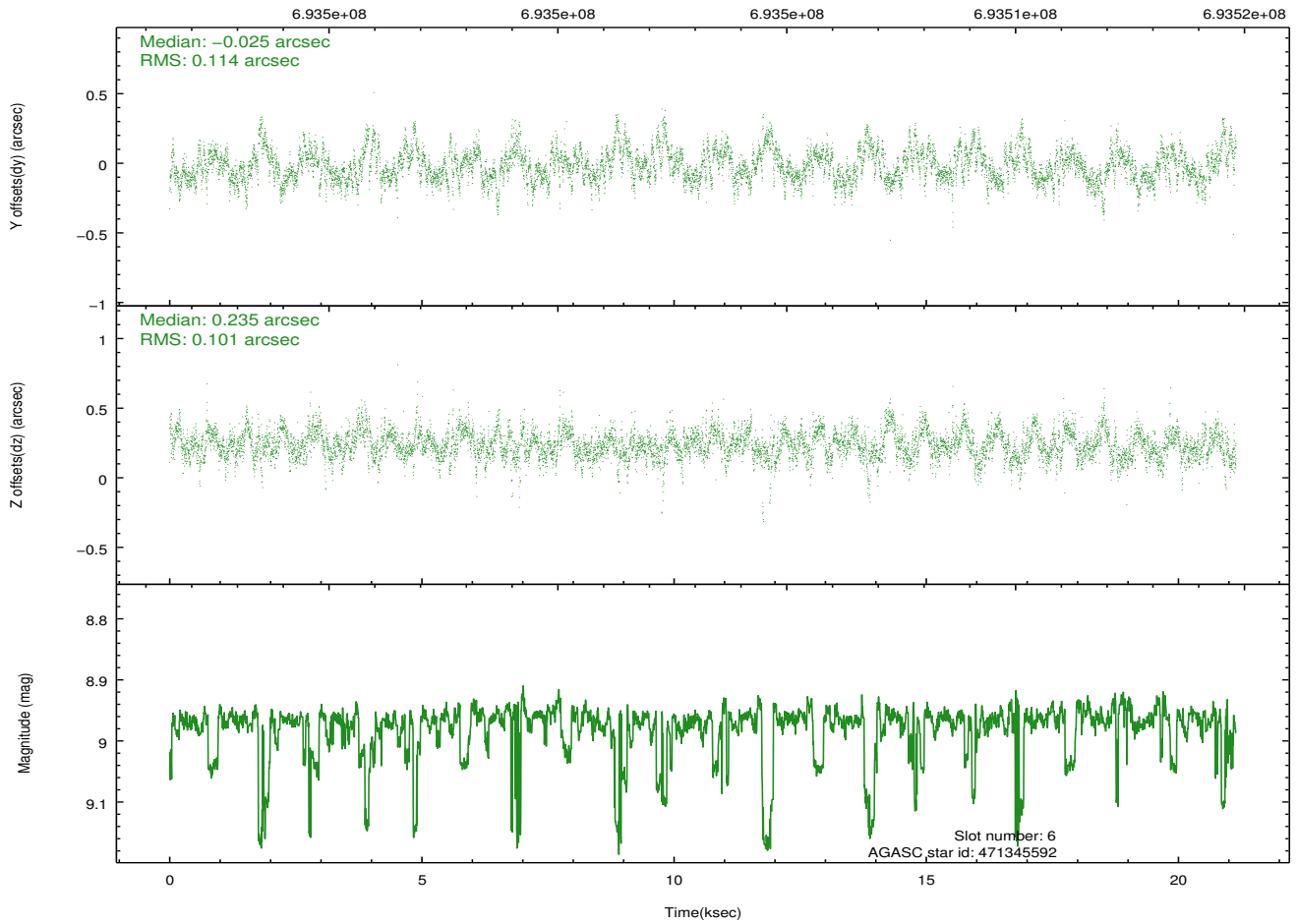
Time (s)



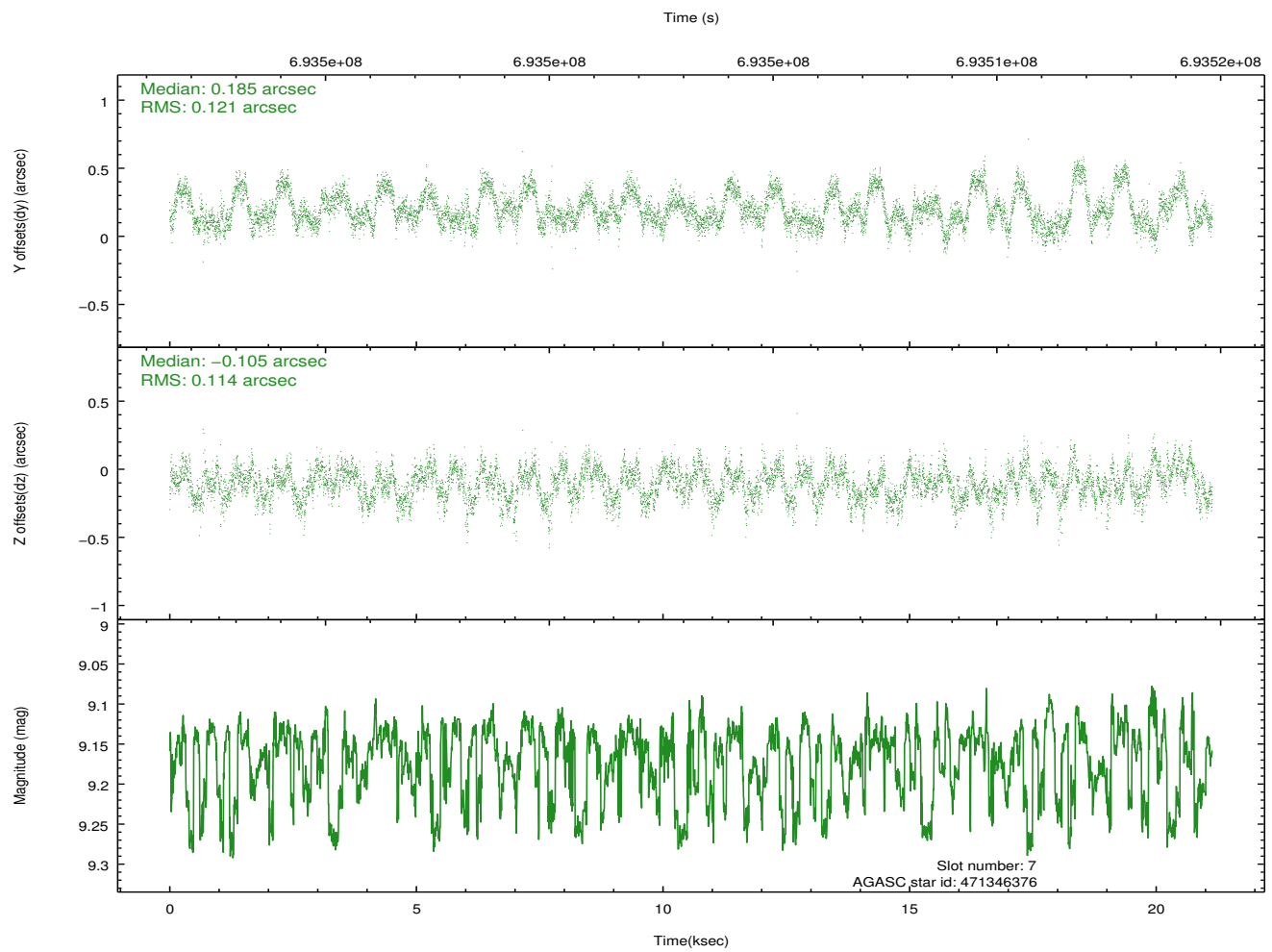
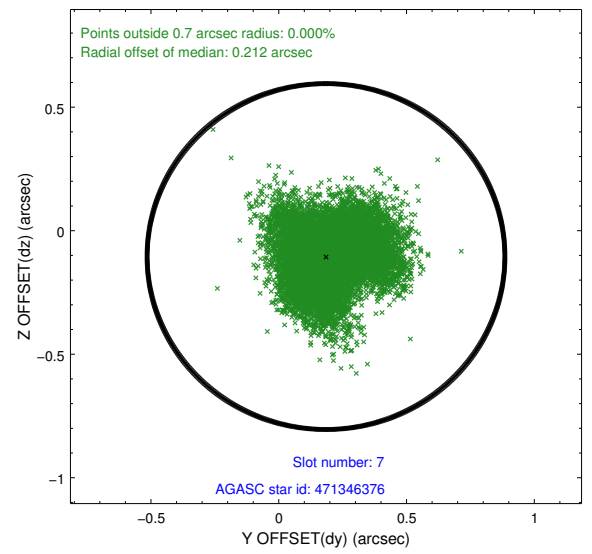
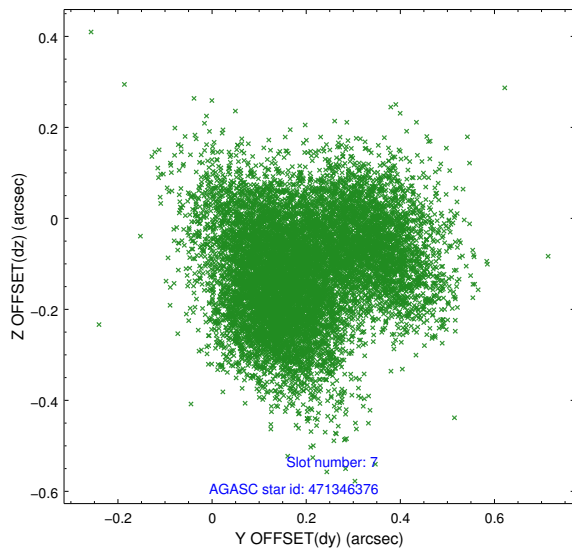
2.4.4 Slot 6



Time (s)

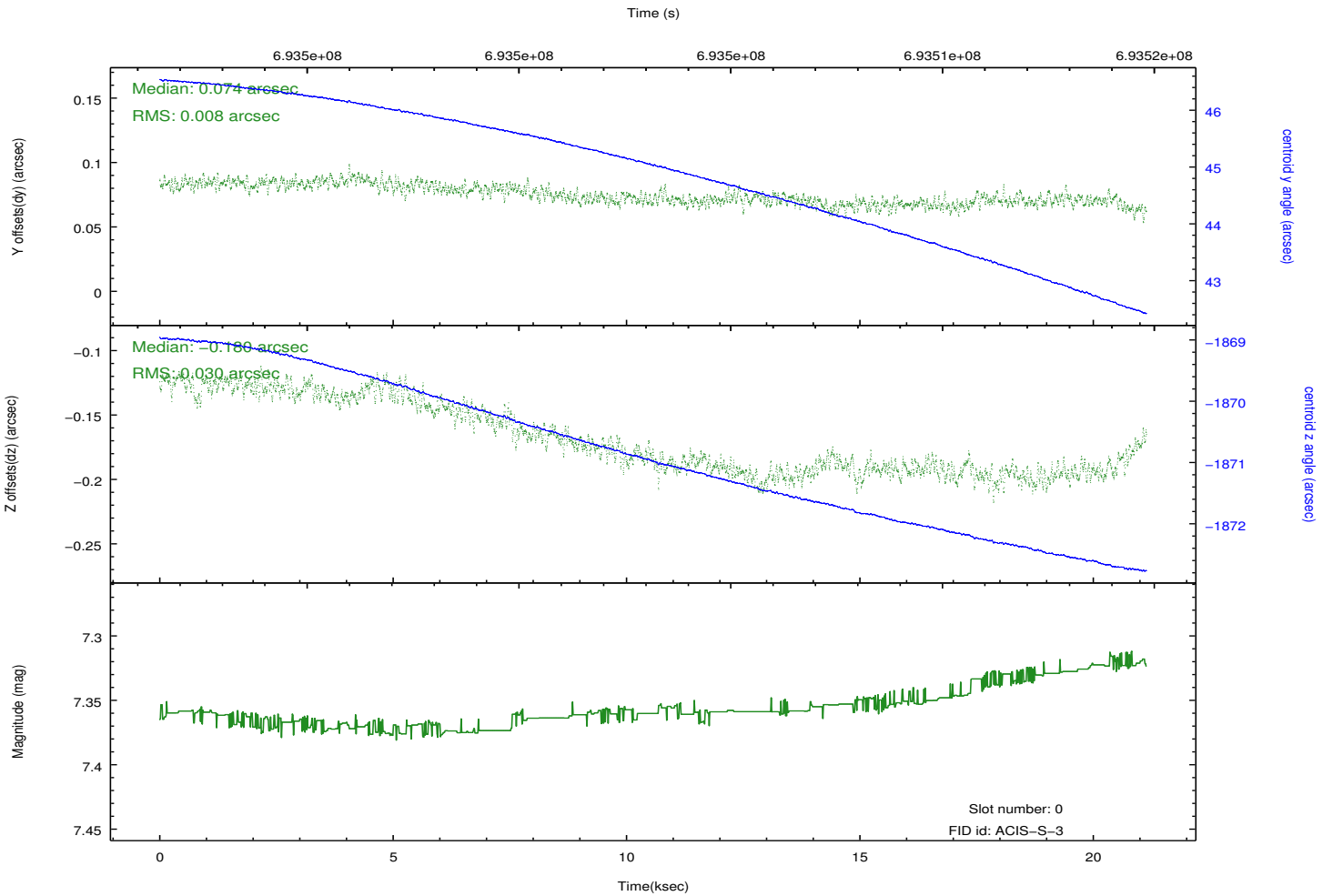
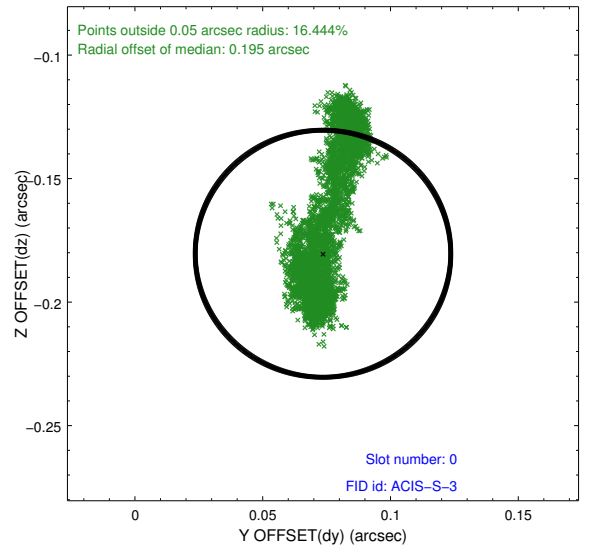
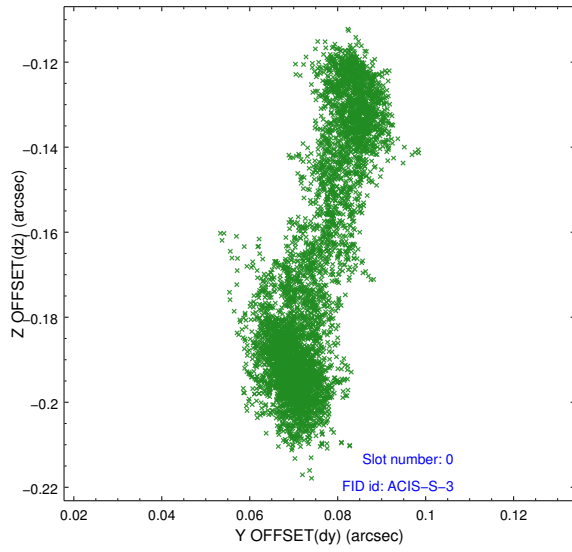


2.4.5 Slot 7

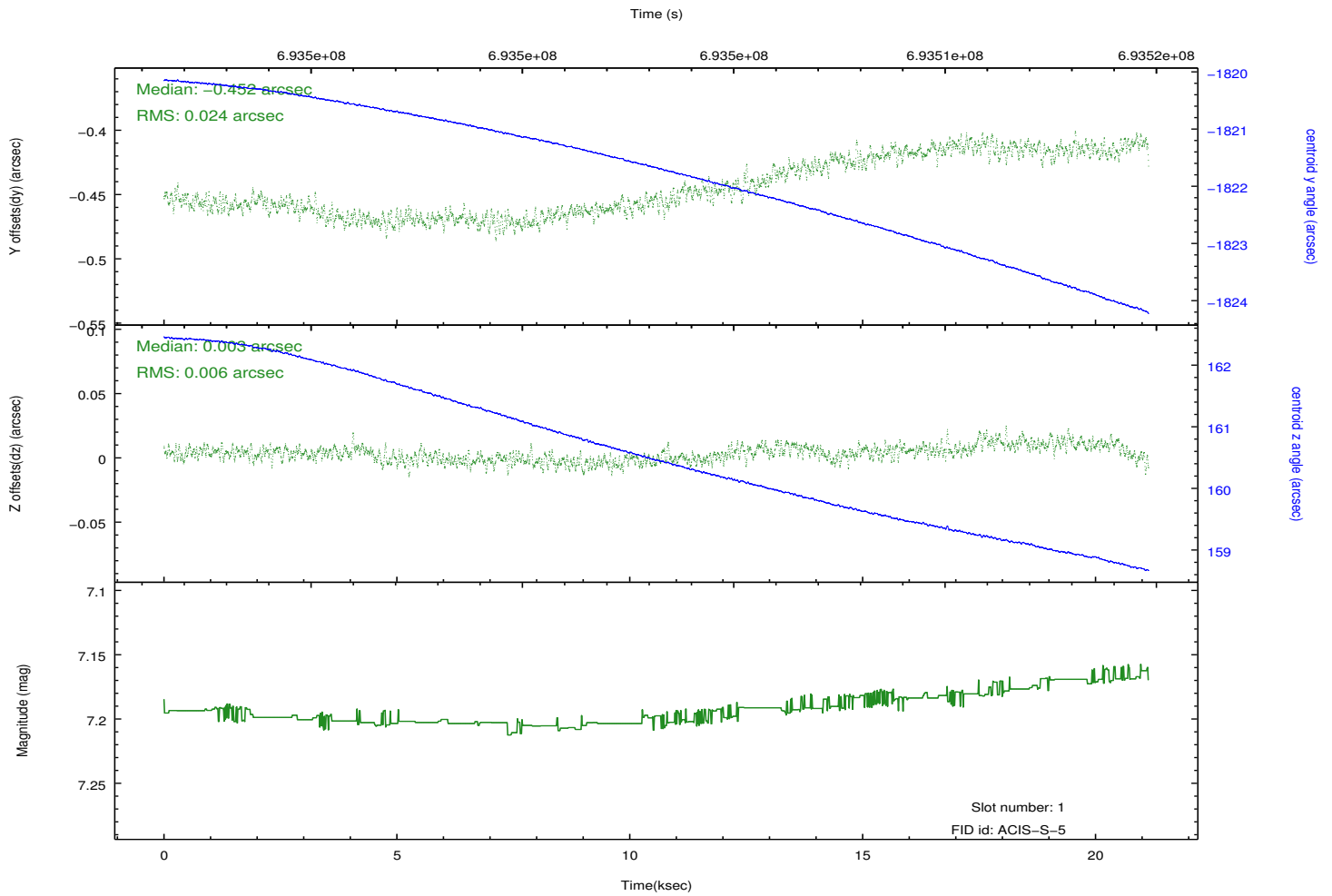
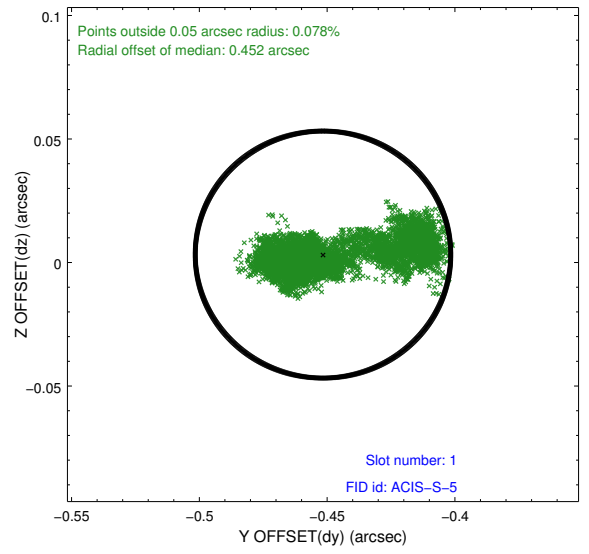
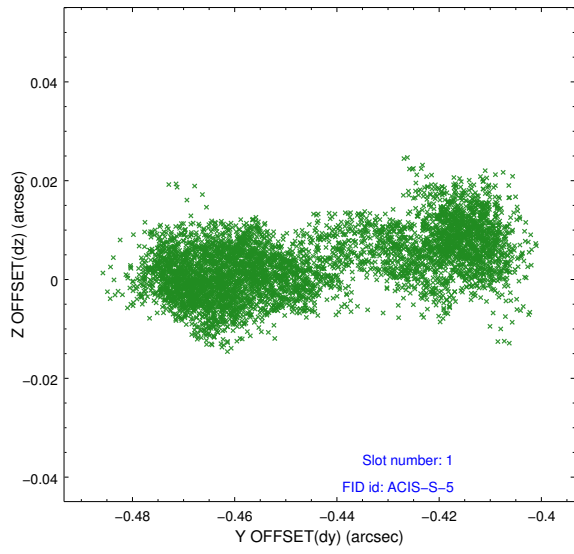


2.5 FID Slots

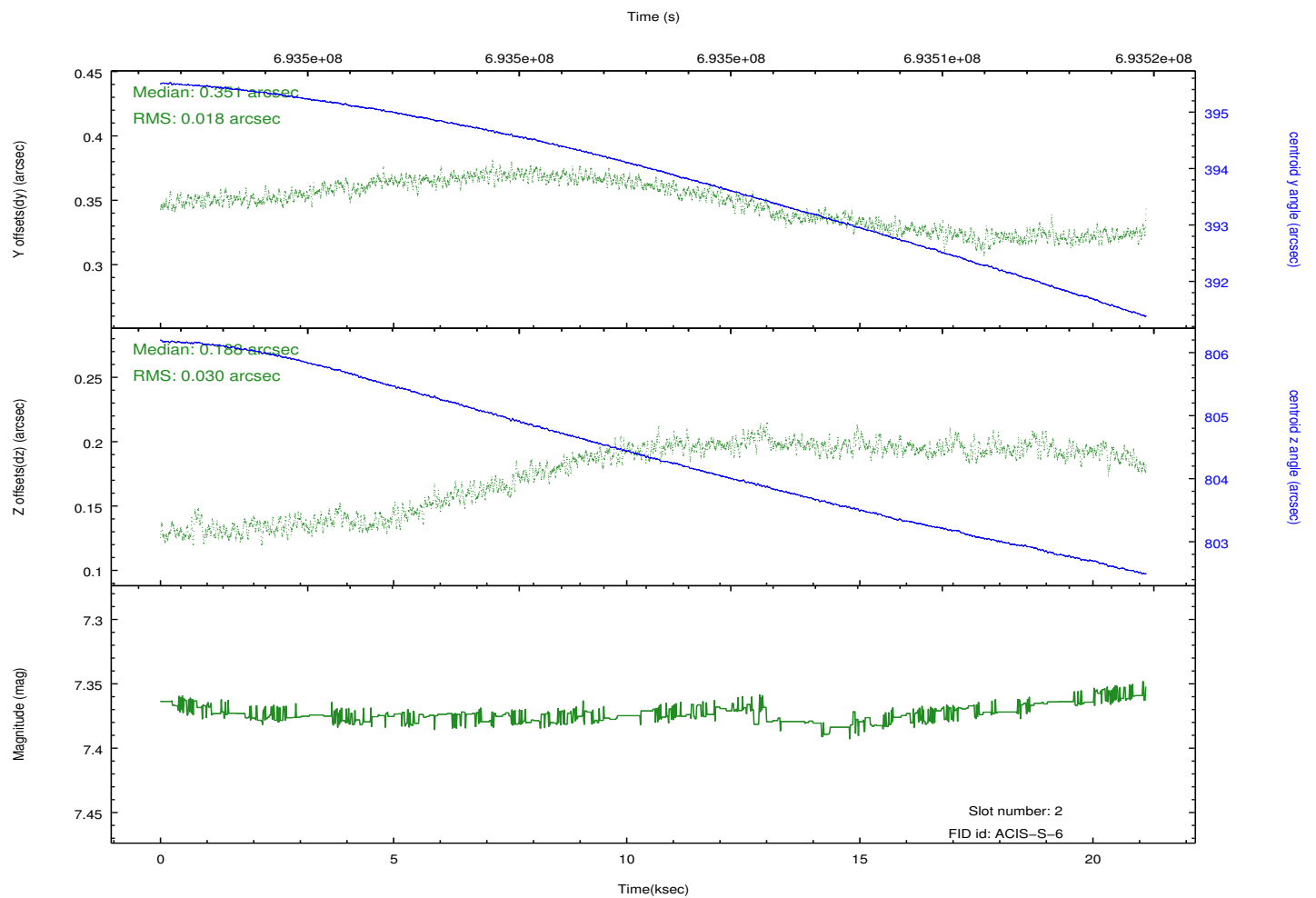
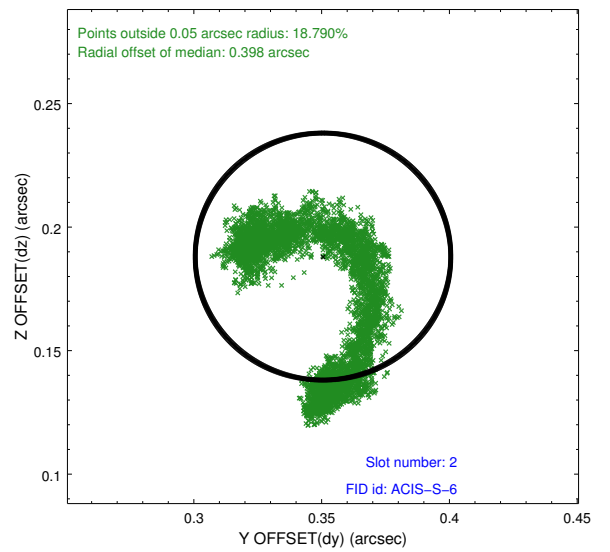
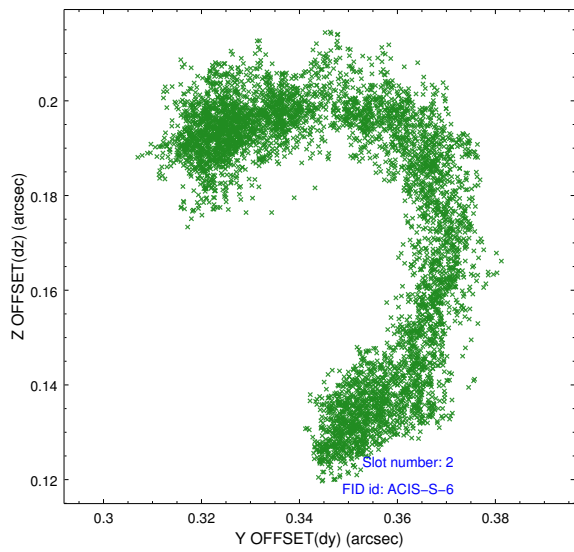
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.12.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.064500162125

A.2 Comments