

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20486 - L2 Version 1
Chandra X-Ray Center

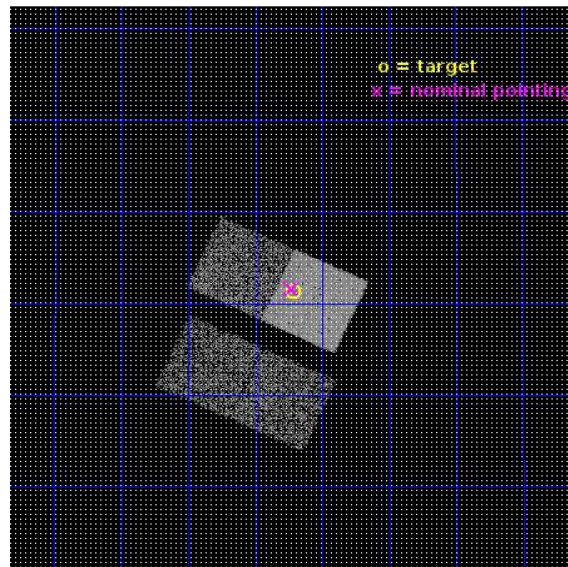
L2 Processing Date : Dec 26 2017

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

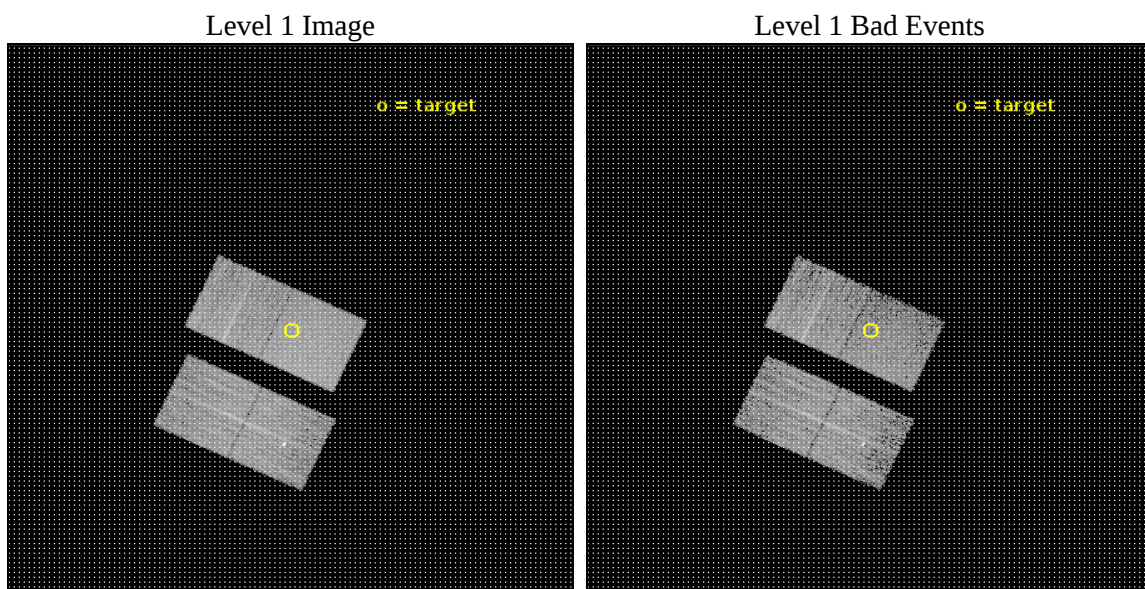
seq_num	703589	Sequence number
obs_id	20486	Observation id
title	Young Radio Sources at High Redshift	Proposal title
observer	Aneta Siemiginowska	Principal investigator
object	SDSS J165913.23+210115.8	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	254.805	Observer's specified target RA [deg]
dec_targ	21.021056	Observer's specified target Dec [deg]
ra_nom	254.80745879943	Nominal RA [deg]
dec_nom	21.027363042119	Nominal Dec [deg]
roll_nom	24.797936547551	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6066.7000467777	Sum of GTIs [s]
livetime	5987.434144427	Livetime [s]
ontime2	6063.5590264797	Sum of GTIs [s]
ontime3	6060.4180259705	Sum of GTIs [s]
ontime6	6066.7000467777	Sum of GTIs [s]
ontime7	6066.7000467777	Sum of GTIs [s]
l2events	36330	Number of level 2 events



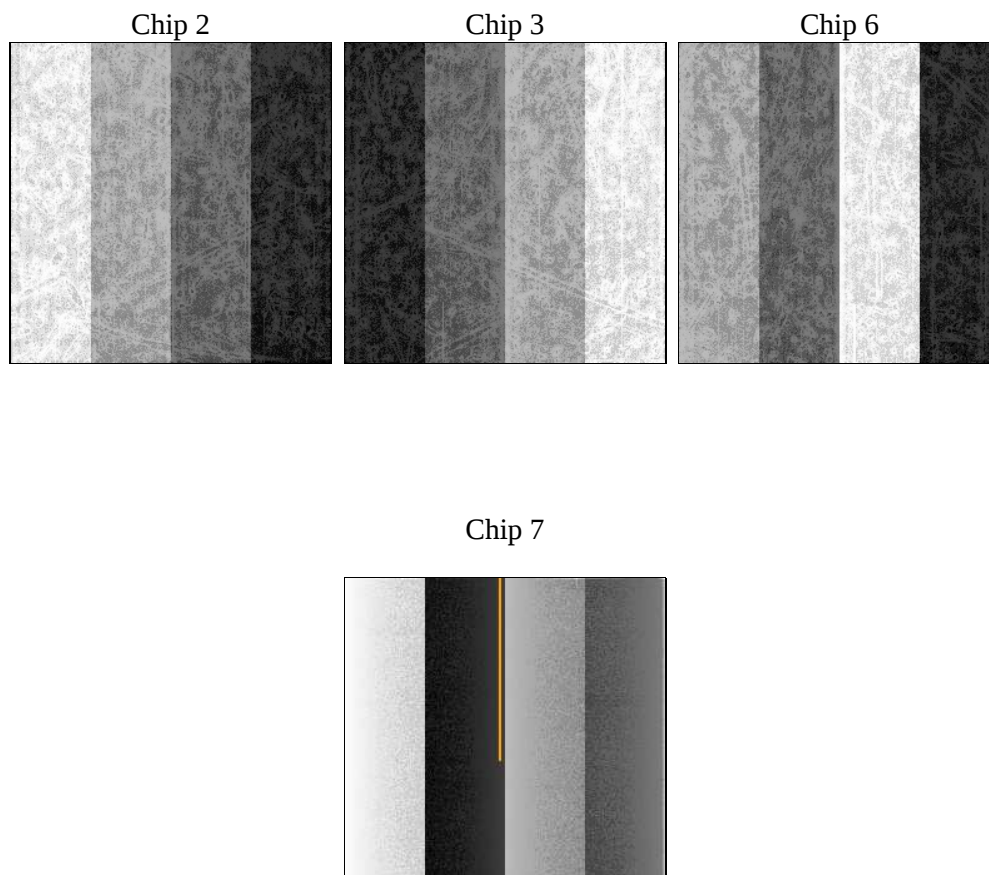
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	6066.7000467777	Sum of GTIs [s]
caldsver	4.7.7	 	ontime2	6063.5590264797	Sum of GTIs [s]
date	2017-12-26T16:37:39	Date and time of file creation	ontime3	6060.4180259705	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	6066.7000467777	Sum of GTIs [s]
			ontime7	6066.7000467777	Sum of GTIs [s]
			l1events	196920	Number of level 1 events

2.1.4 Events

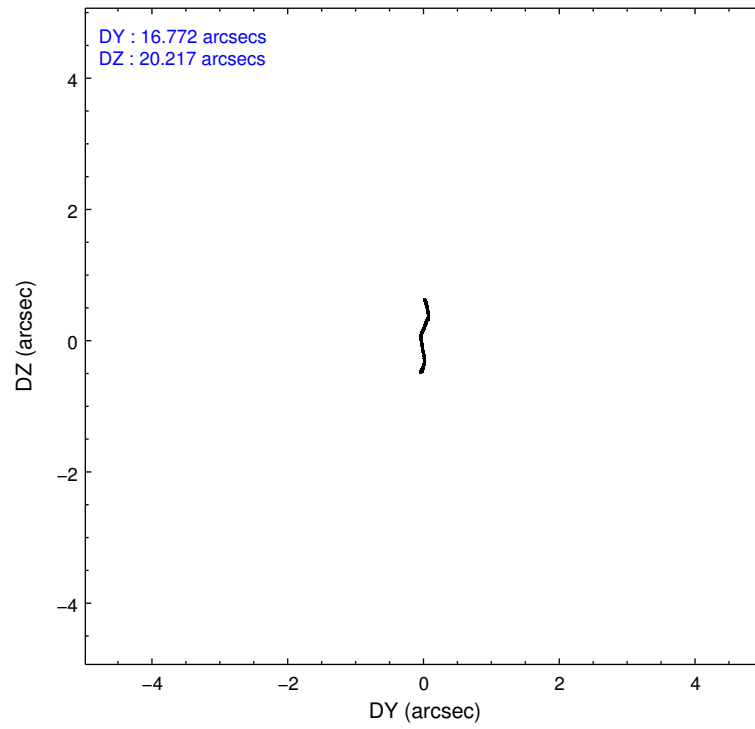
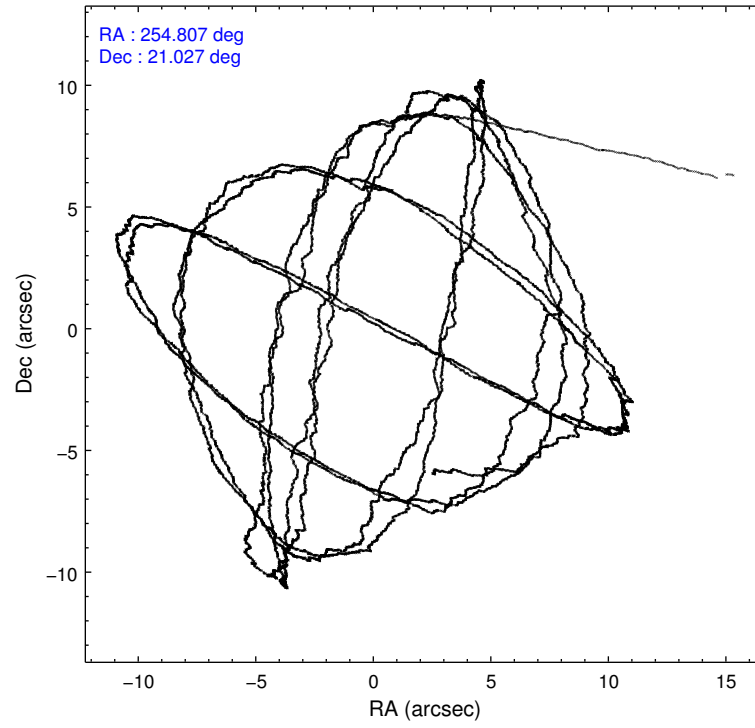
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	46931	47250	45673	57066
rejected events	42351	42108	40522	32395
rejected %	90%	89%	88%	56%

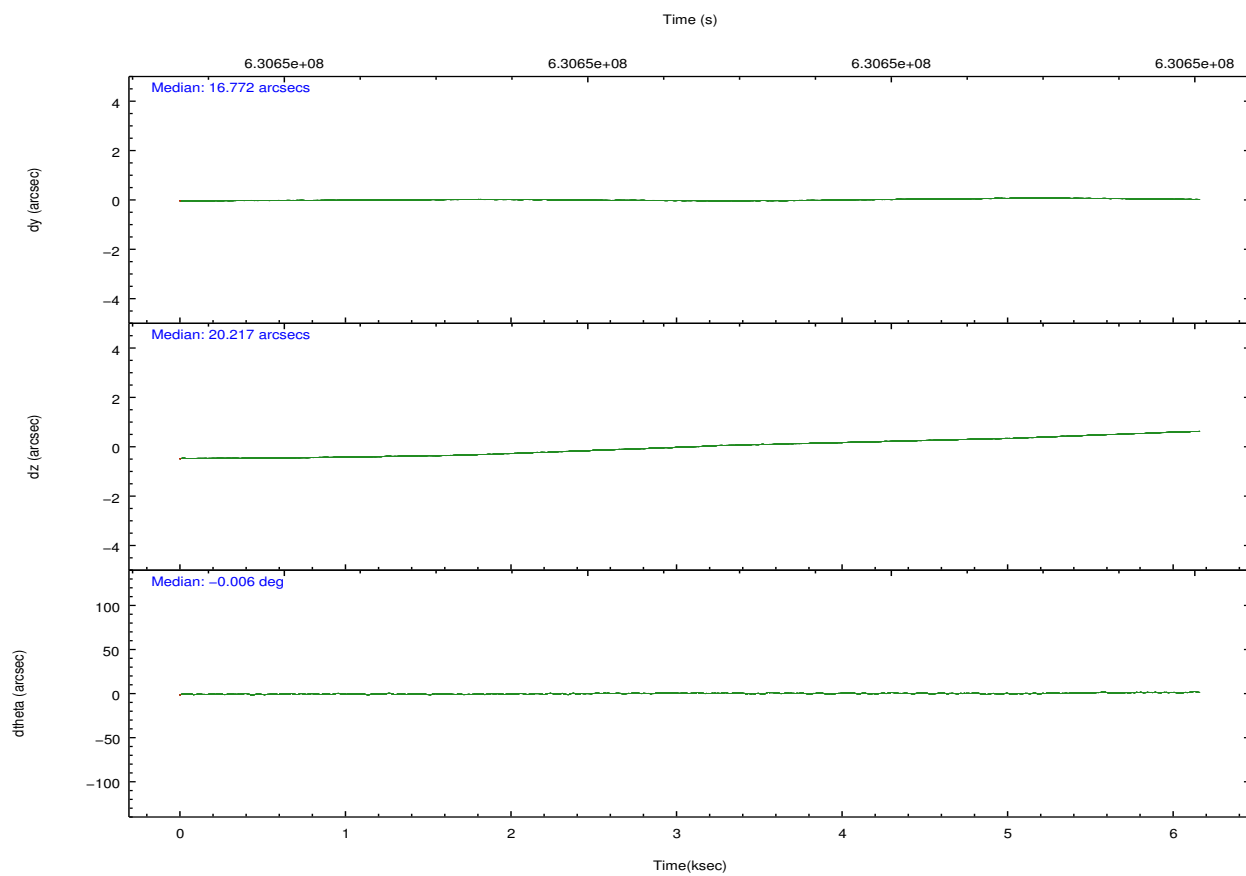
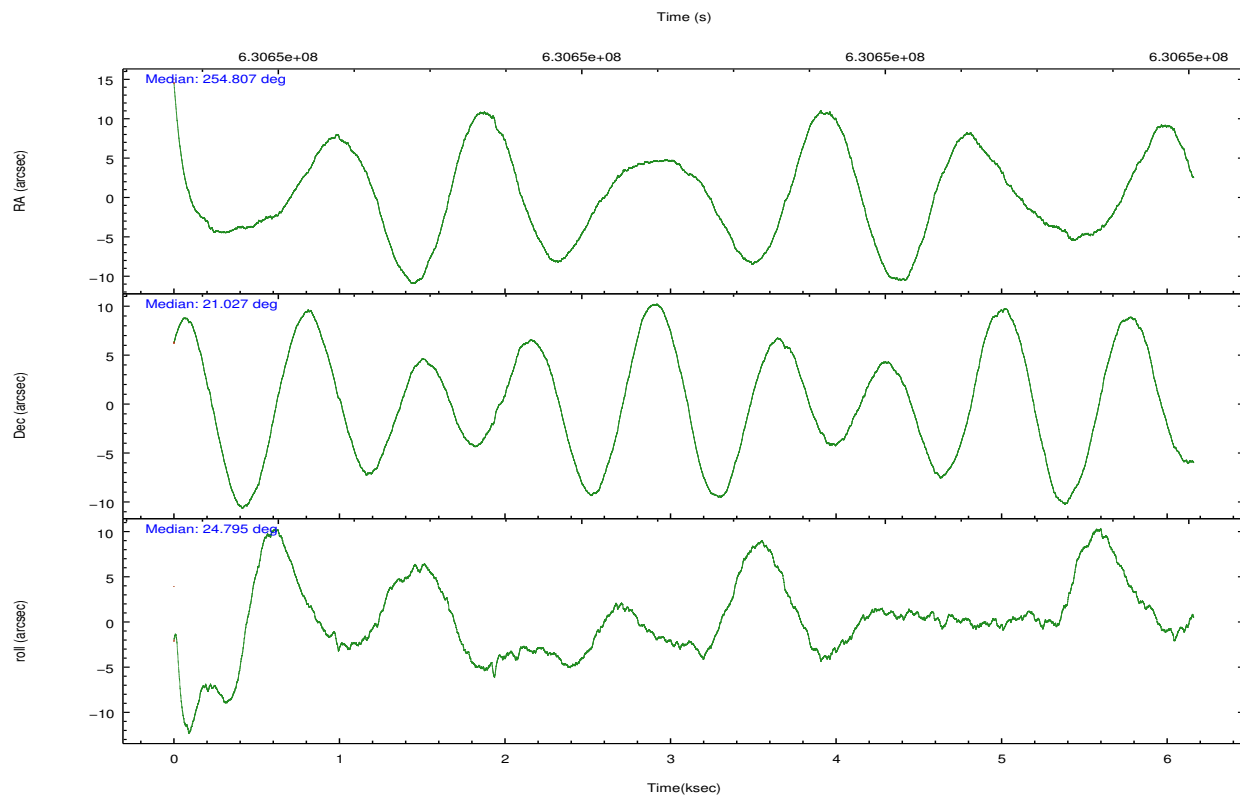
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	1546	1568	1656	2078
	3%	3%	3%	3%
grade 1 events	22	842	23	84
	0%	1%	0%	0%
grade 2 events	1137	1689	1287	5210
	2%	3%	2%	9%
grade 3 events	486	469	452	2030
	1%	0%	0%	3%
grade 4 events	481	463	447	1936
	1%	0%	0%	3%
grade 5 events	1676	2103	2028	5607
	3%	4%	4%	9%
grade 6 events	931	957	1311	13430
	1%	2%	2%	23%
grade 7 events	40652	39159	38469	26691
	86%	82%	84%	46%

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	254.790796	254.8074587994345	CCD I2 on	O1	Y
[deg] Pointing Dec	21.004714	21.02736304211865	CCD I3 on	O3	Y
[deg] Pointing Roll	24.647252	24.79793654755116	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	O2	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	630645750.184000	630644473.60969	CCD S5 on	N	N
Observation start date	2017-12-26T03:21:21	2017-12-26T03:01:13	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	630651750.184000	630652556.76016	On-chip summing requested	N	N
Observation end date	2017-12-26T05:01:21	2017-12-26T05:15:56	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



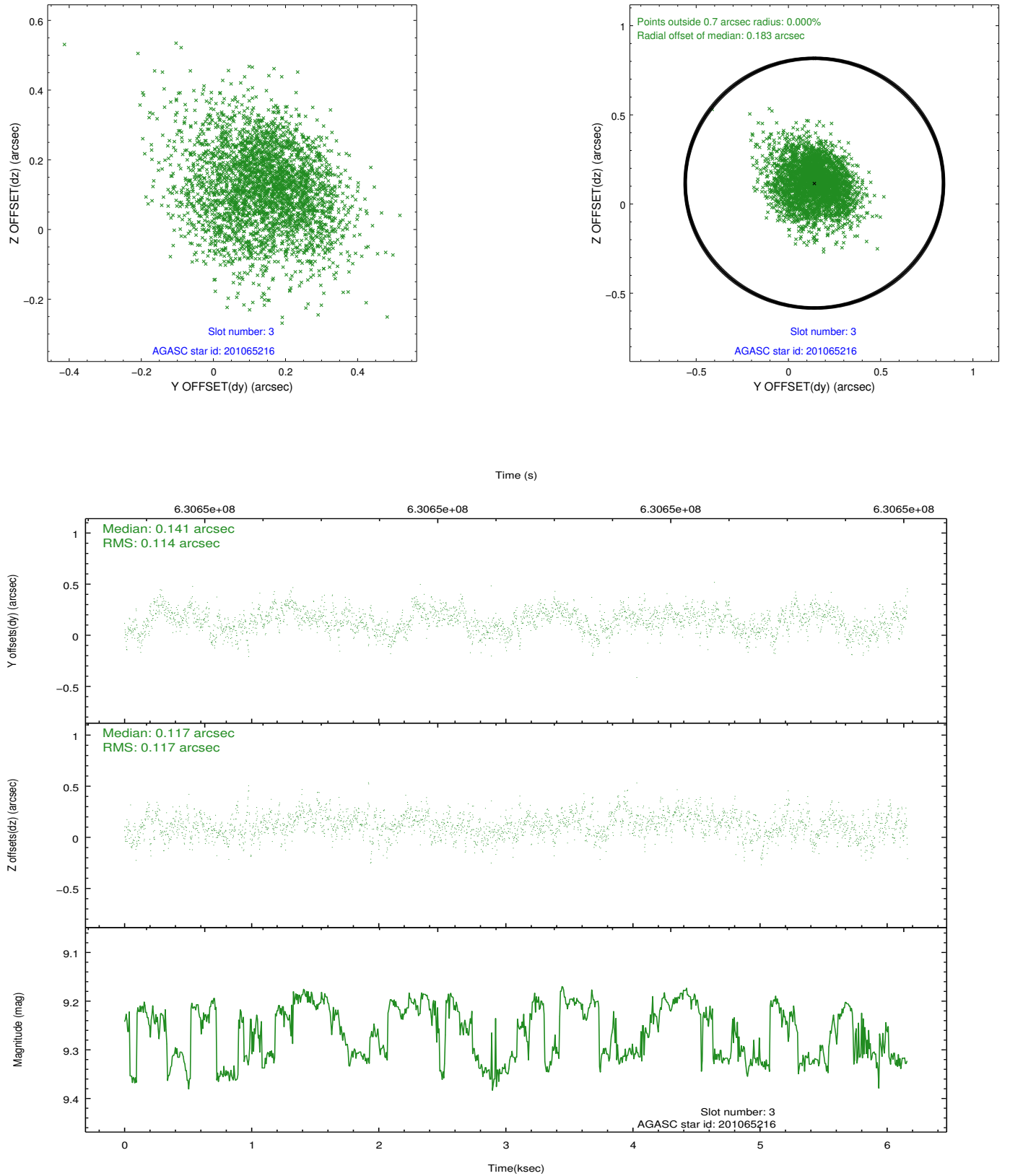


Slot Statistics

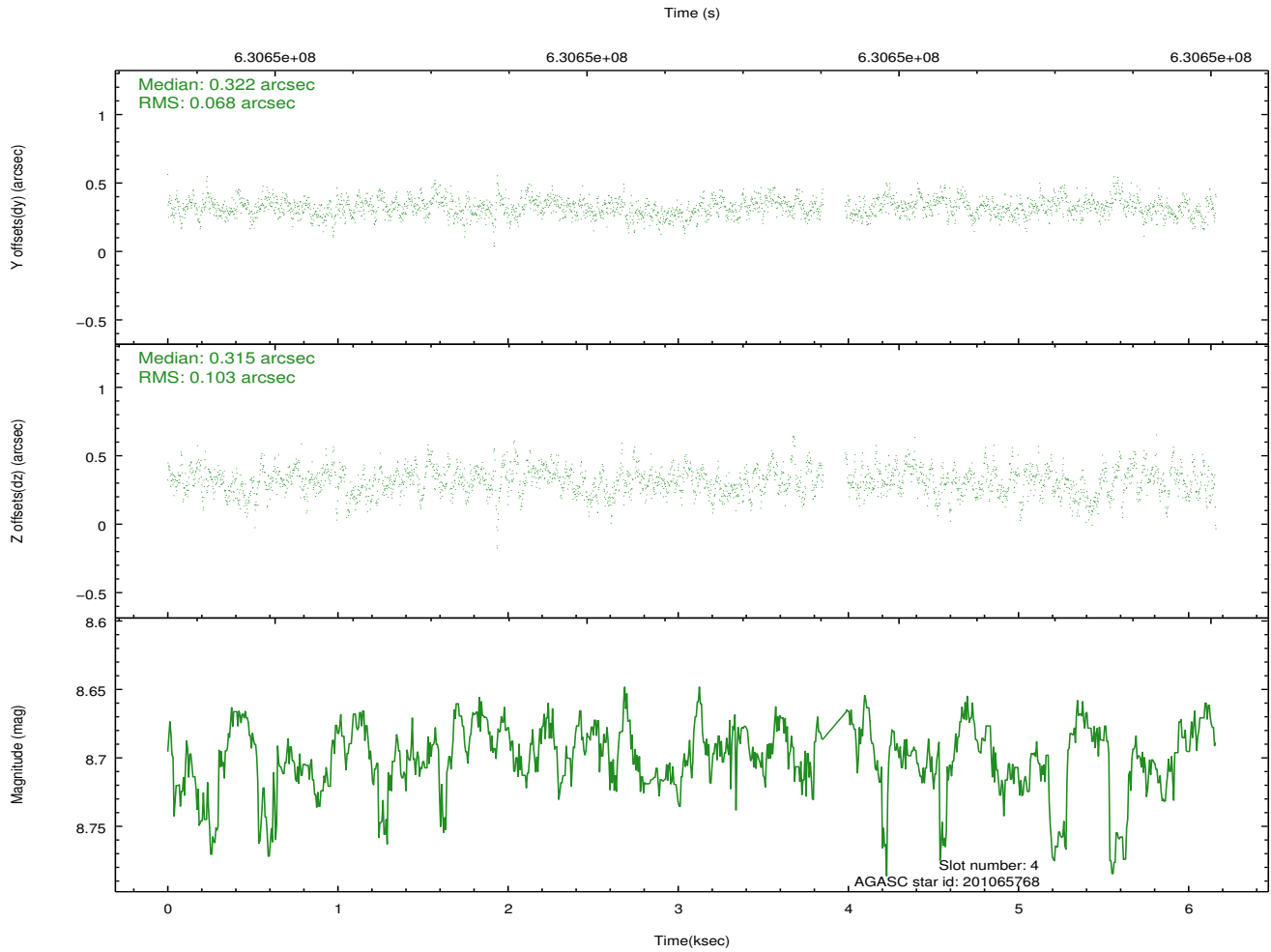
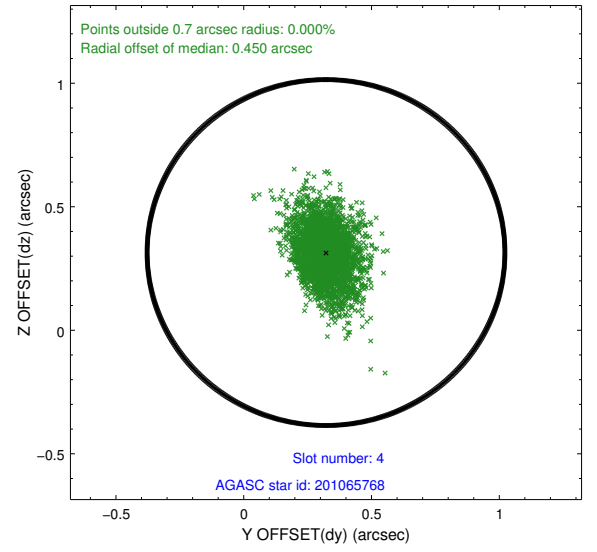
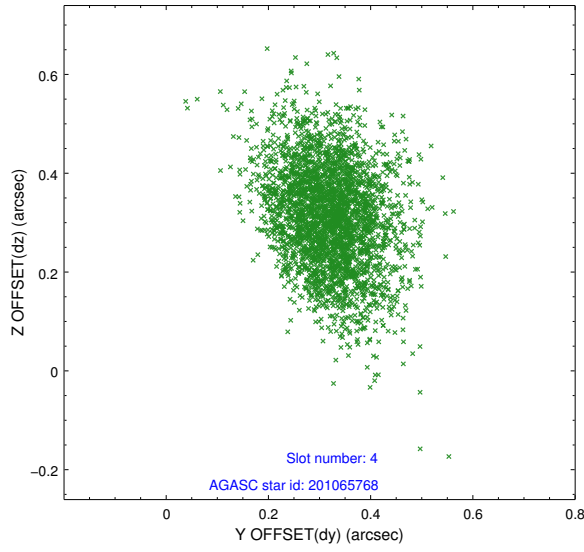
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.01	1503	-0.213	-0.089	0.007	0.011	0.000000	0.000000	-769.96	-1741.84
1	FID		ACIS-S-4	7.13	1503	0.485	0.127	0.008	0.013	0.000000	0.000000	2143.52	165.94
2	FID		ACIS-S-5	7.11	1503	-0.302	-0.029	0.008	0.015	0.000000	0.000000	-1821.72	160.44
3	GUIDE	used	201065216	9.26	3003	0.141	0.117	0.174	0.283	255.600342	20.830237	2217.10	-1700.26
4	GUIDE	used	201065768	8.70	2939	0.322	0.315	0.127	0.219	254.520078	20.664744	-1337.98	-732.28
5	GUIDE	used	201070296	7.47	3006	-0.266	-0.352	0.114	0.200	255.280068	21.497197	2229.37	928.97
6	GUIDE	used	201073296	9.27	2999	-0.221	-0.076	0.174	0.287	254.672262	21.333487	133.05	1242.03
7	GUIDE	used	201073792	8.04	3004	0.036	0.011	0.117	0.201	254.400816	21.020871	-1165.93	601.36

2.4 Star Slots

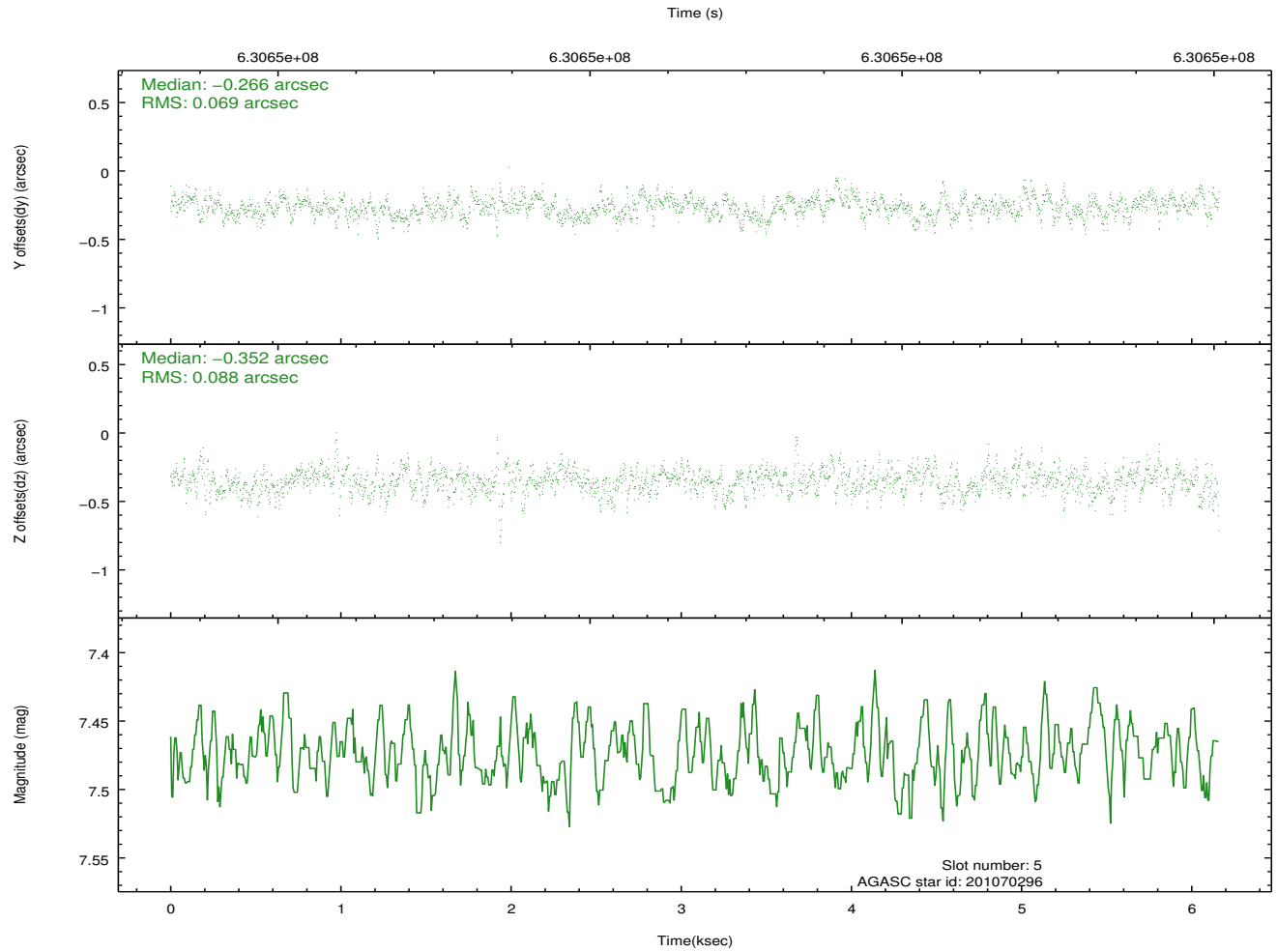
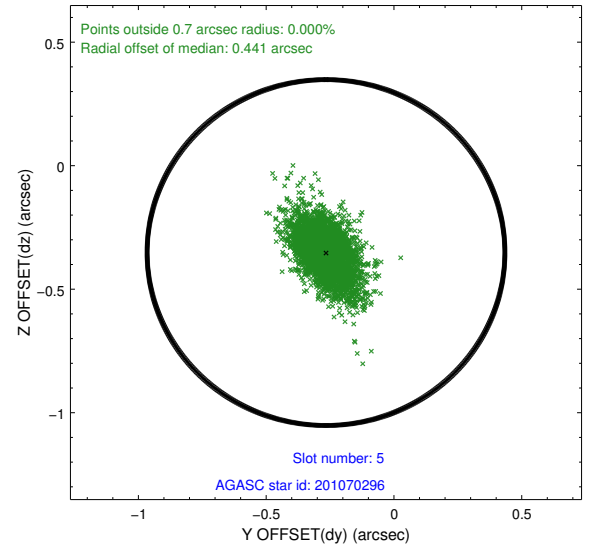
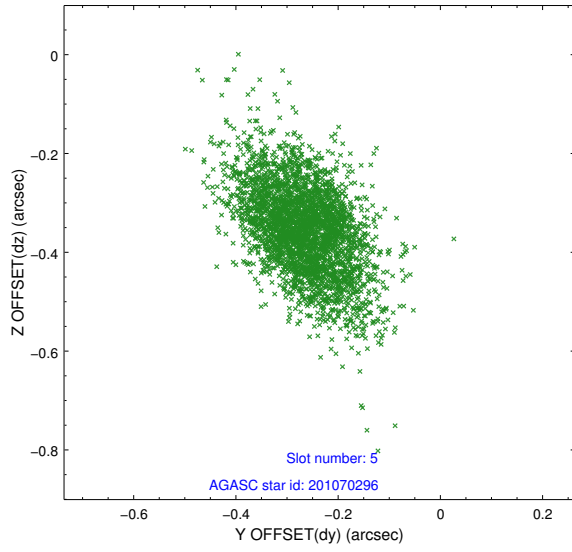
2.4.1 Slot 3



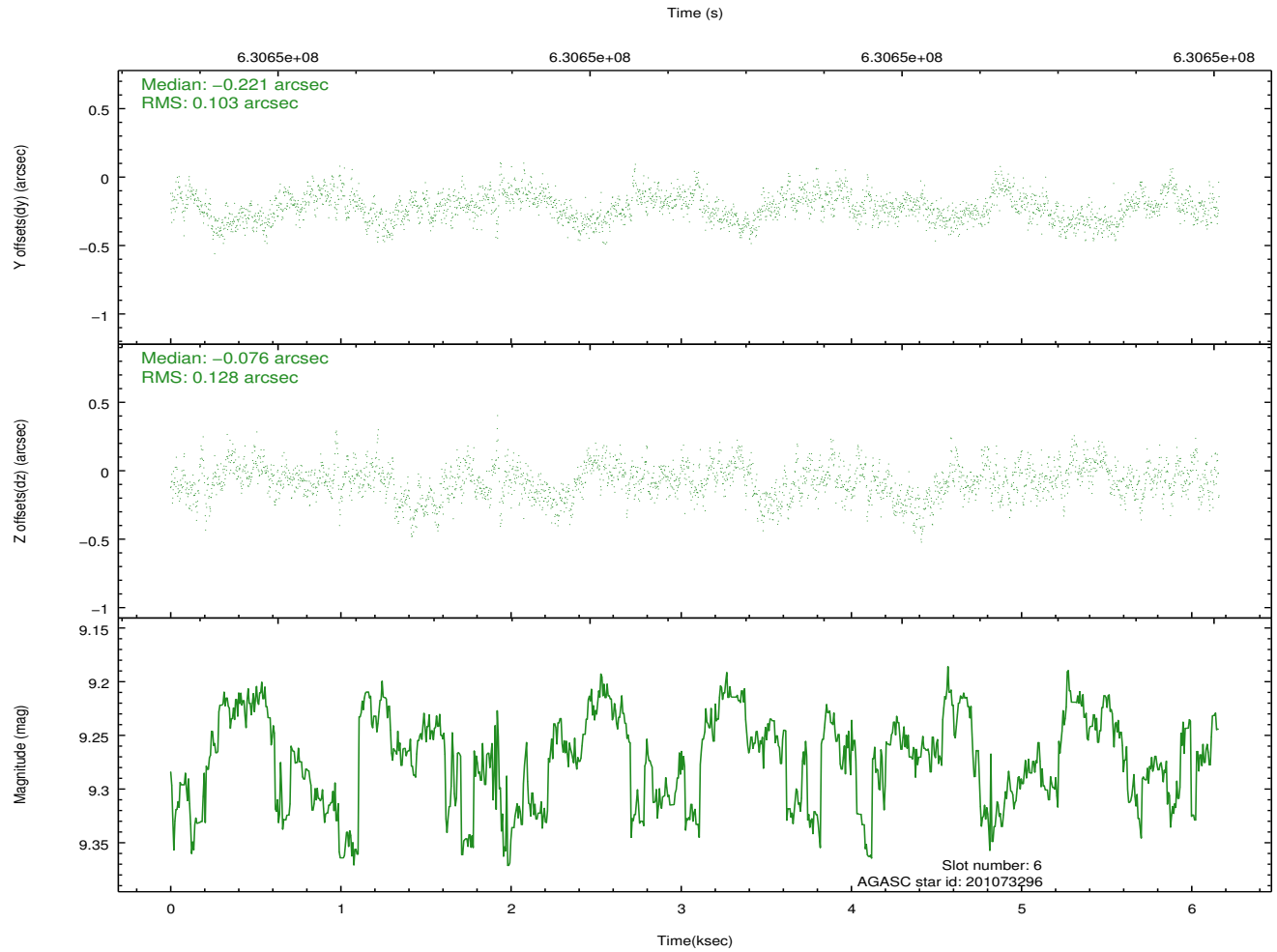
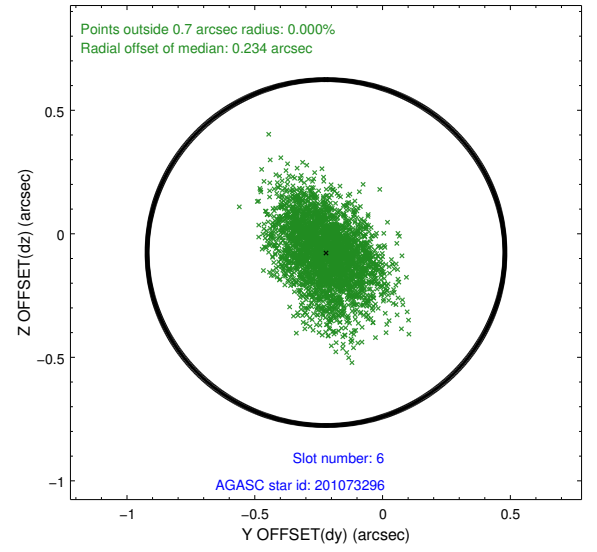
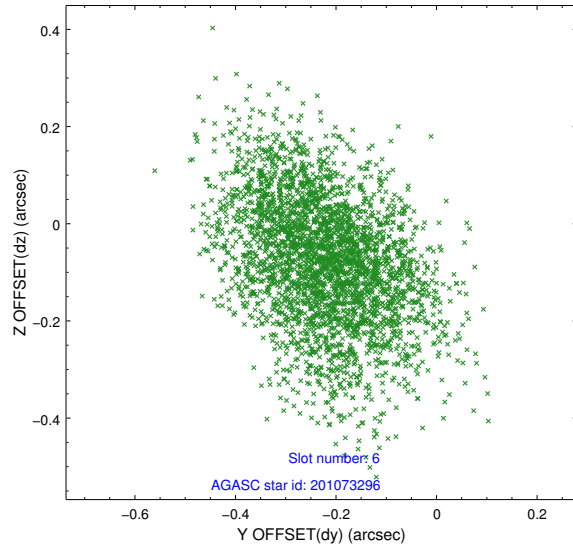
2.4.2 Slot 4



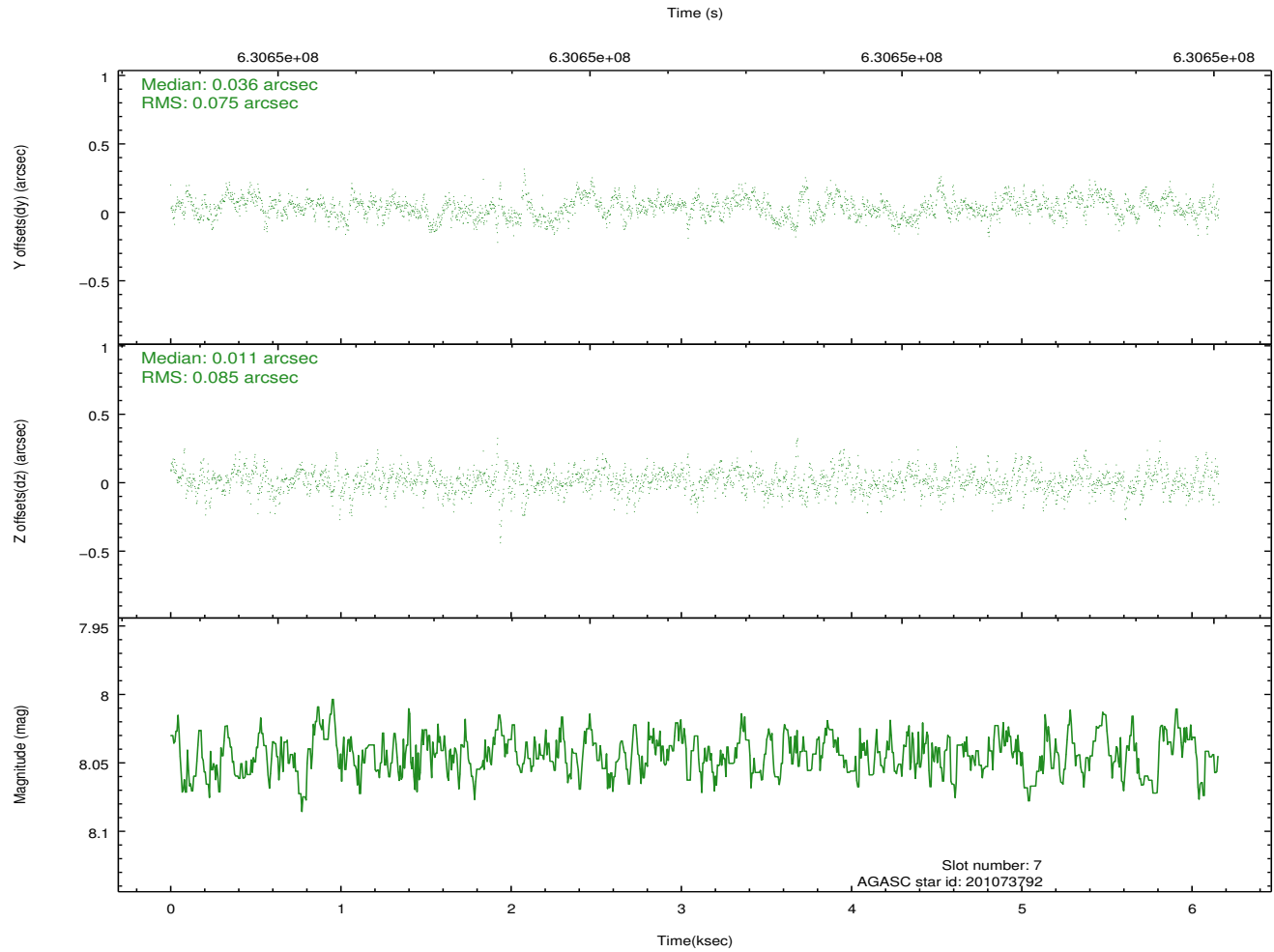
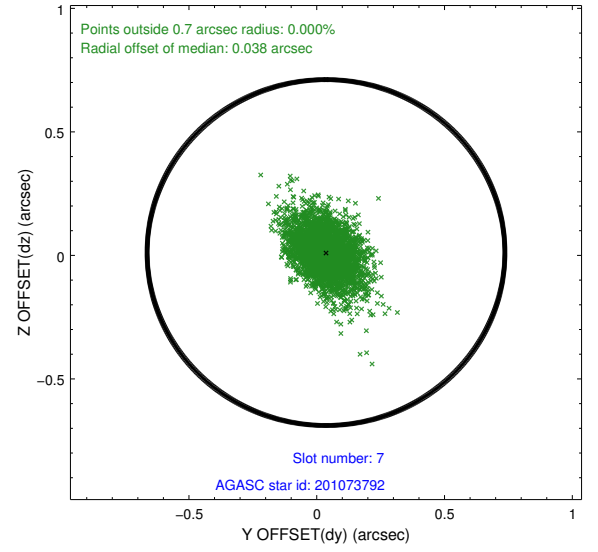
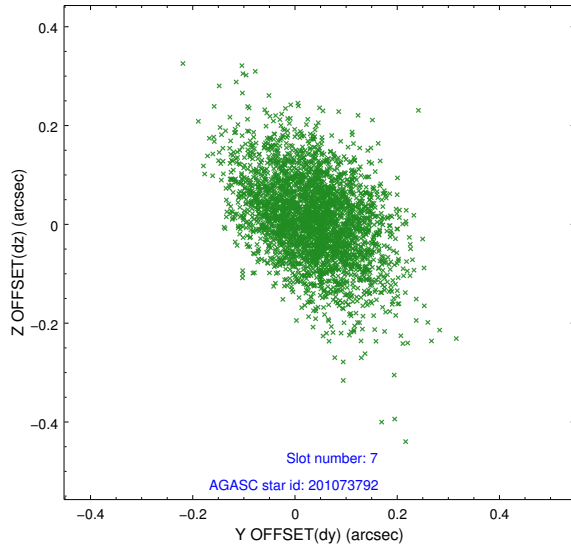
2.4.3 Slot 5



2.4.4 Slot 6

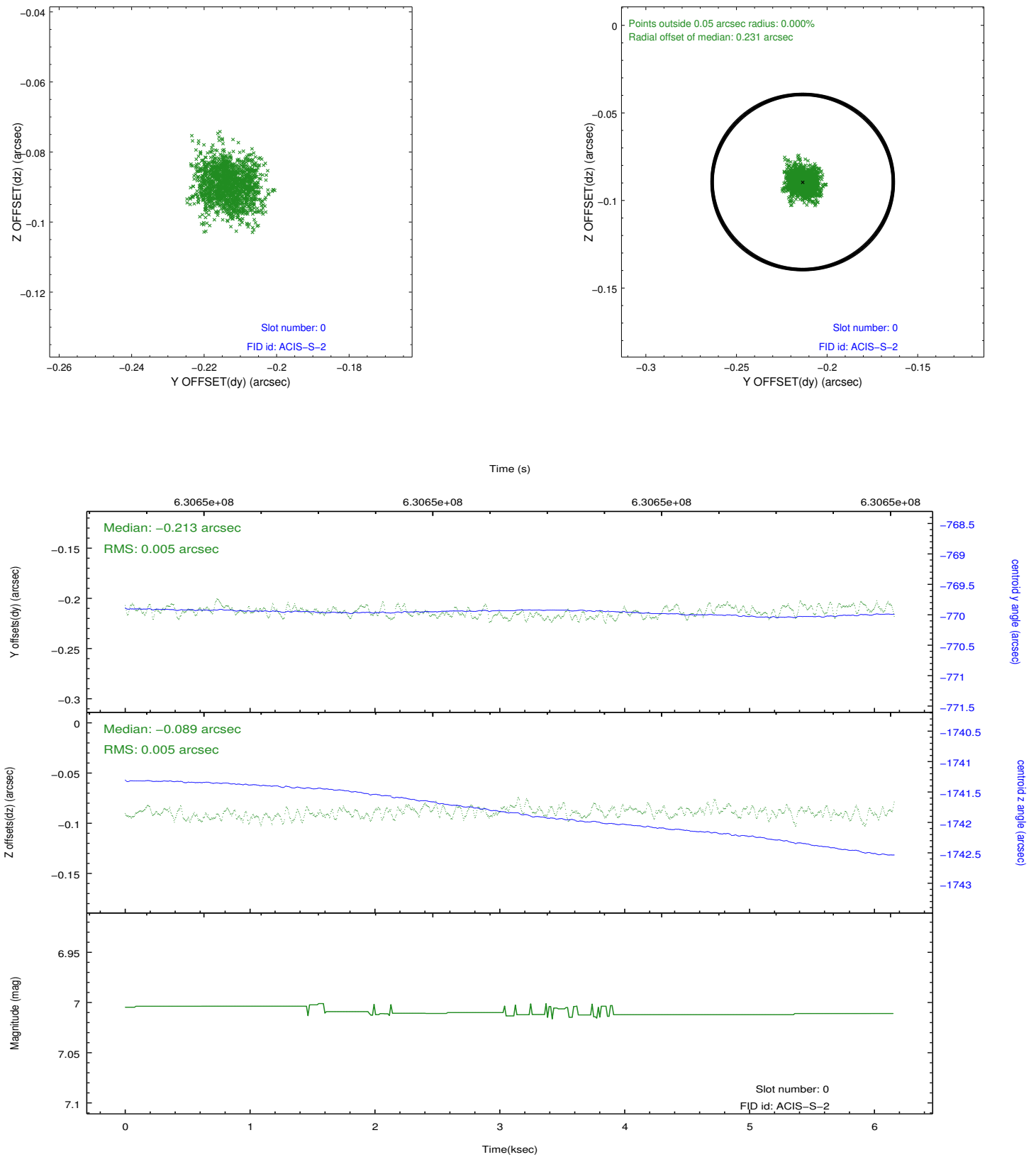


2.4.5 Slot 7

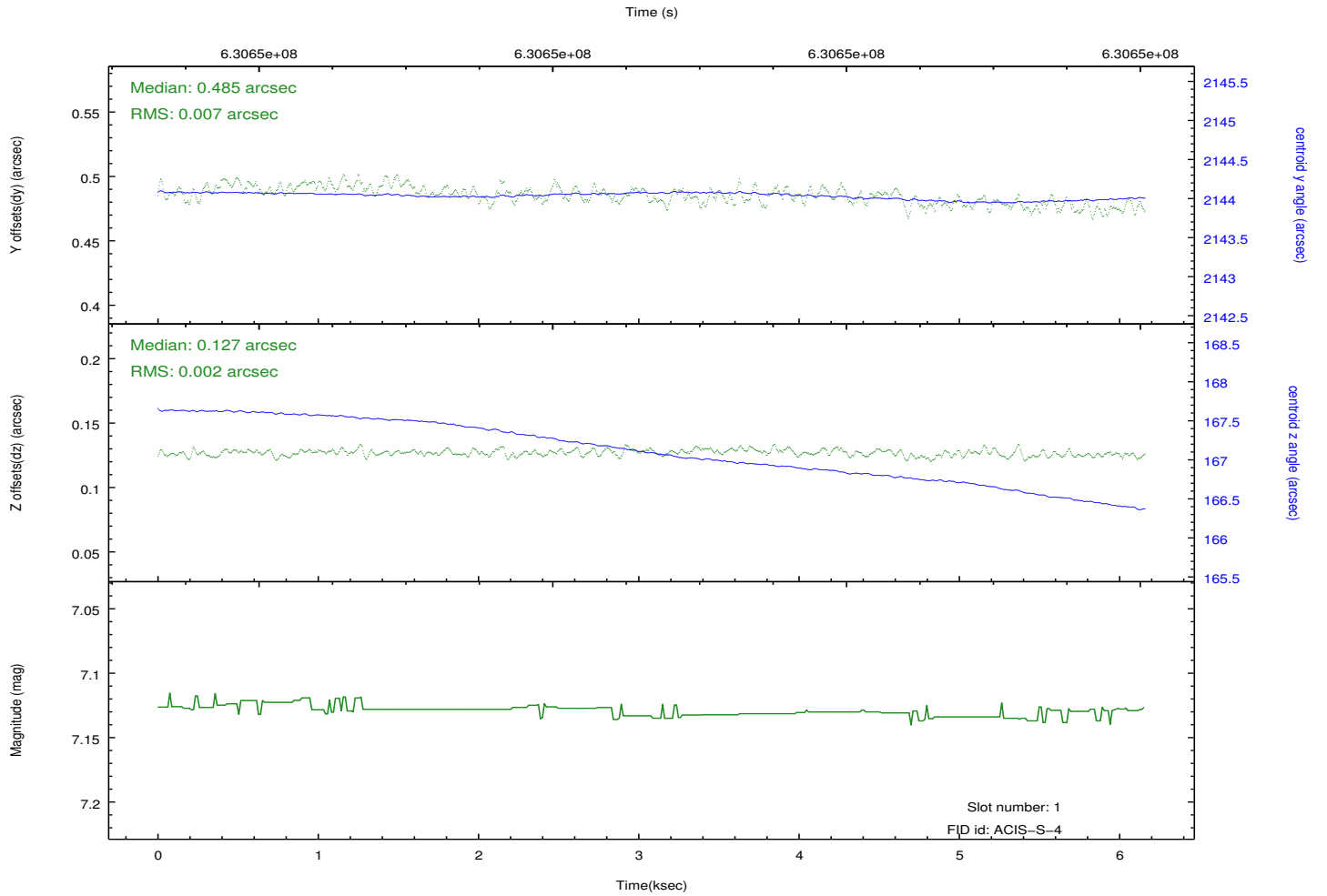
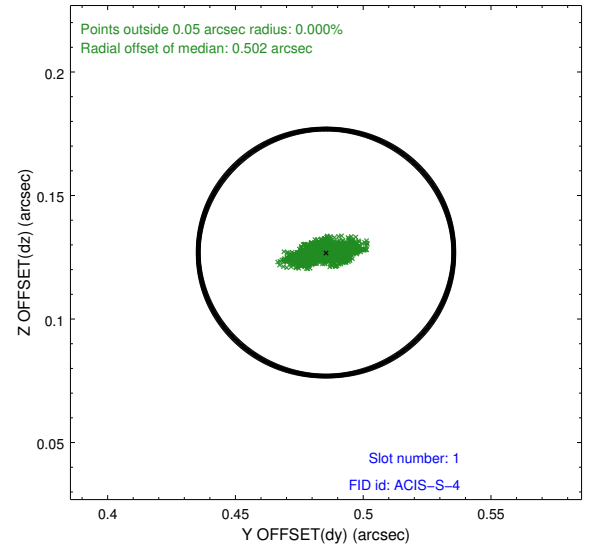
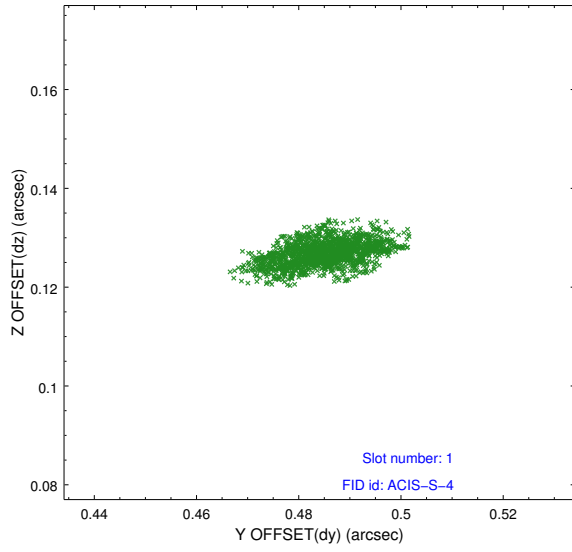


2.5 FID Slots

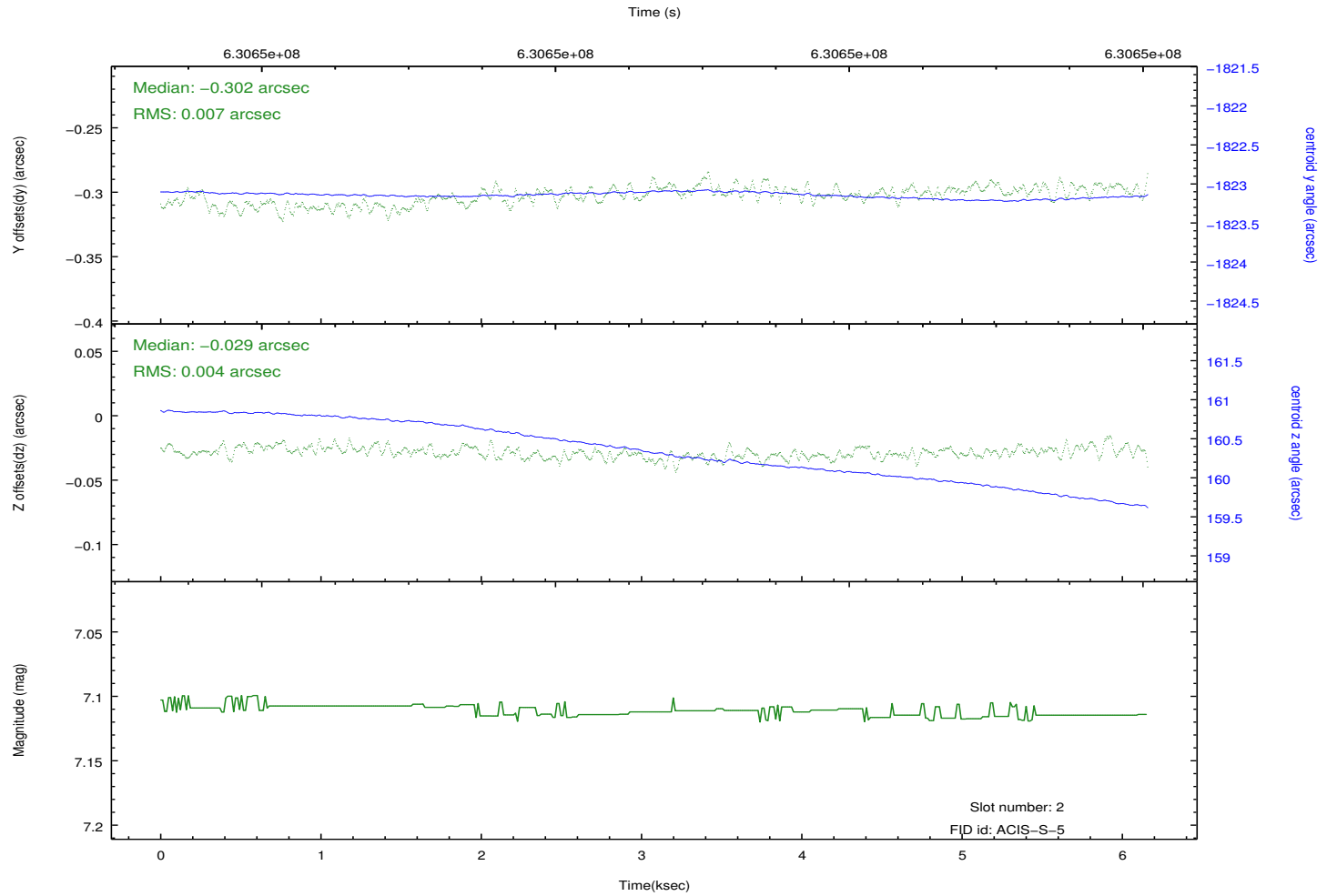
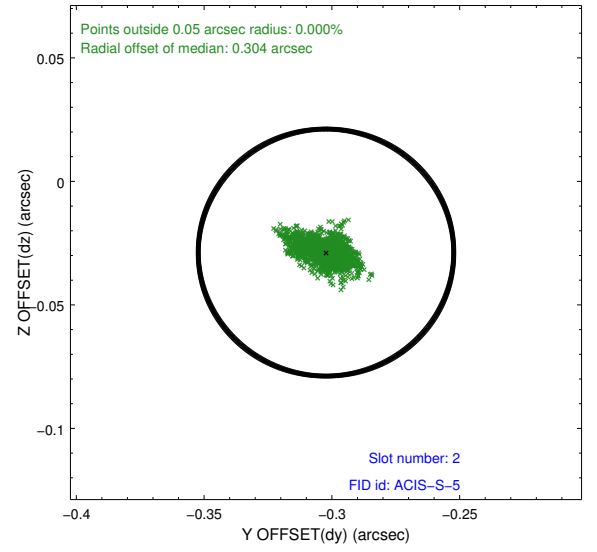
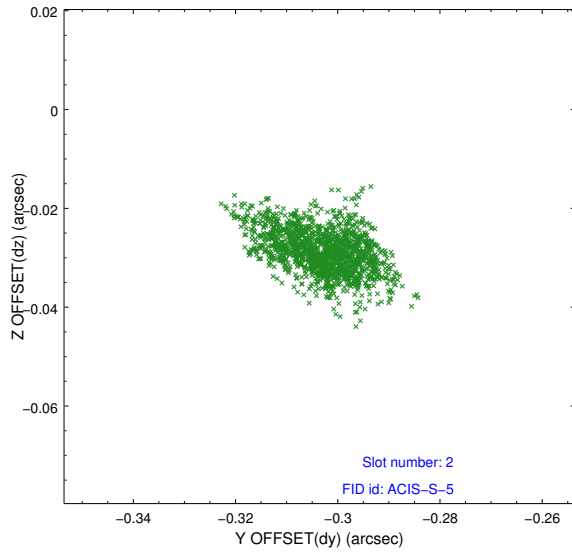
2.5.1 Slot 0



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)	2017.12.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.0667000467777

A.2 Comments