

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 21474 - L2 Version 1
Chandra X-Ray Center

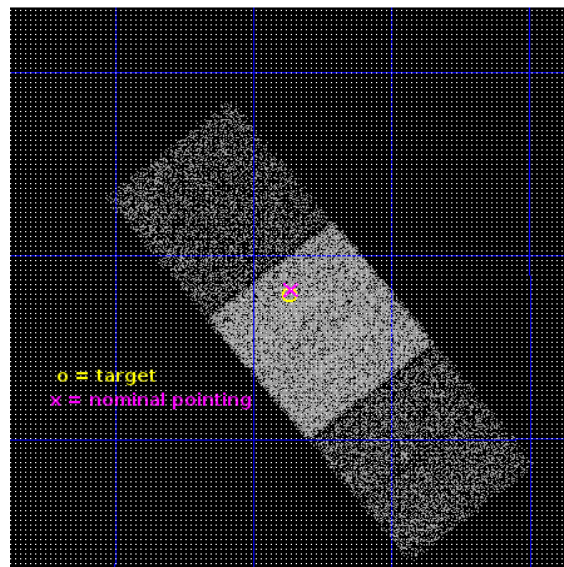
L2 Processing Date : Nov 15 2018

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1 Front

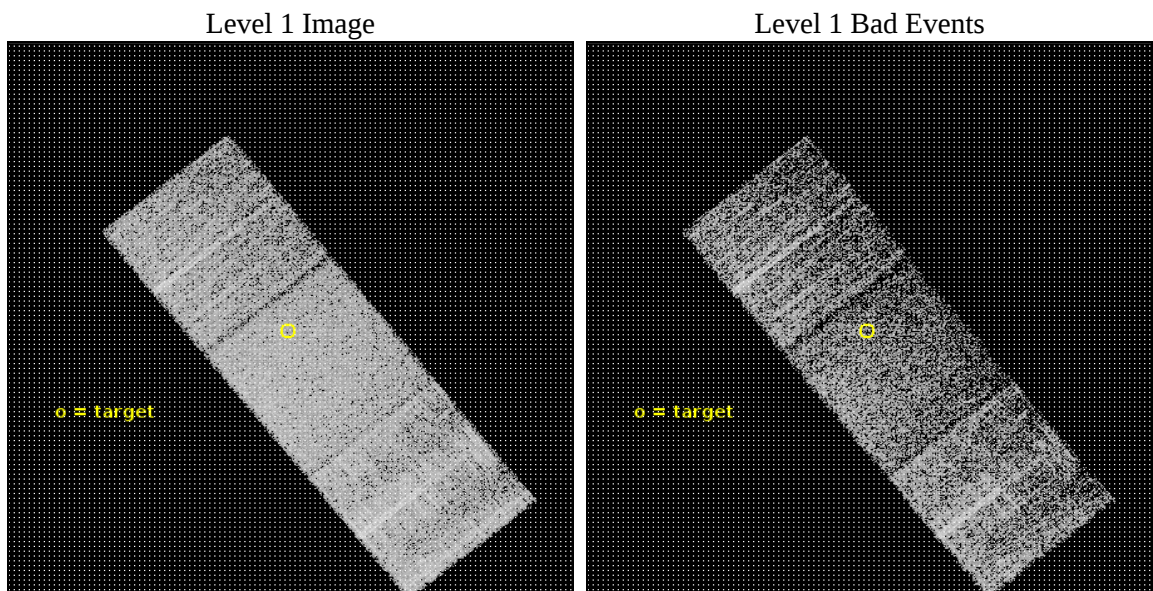
seq_num	703770	Sequence number
obs_id	21474	Observation id
title	RUNAWAY TIDAL CAPTURE IN NUCLEAR STAR CLUSTERS AS A FORMATION PATHWAY FOR MASSIVE BLACK HOLES	Proposal title
observer	Vivienne Baldassare	Principal investigator
object	NGC 4595	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	189.966667	Observer's specified target RA [deg]
dec_targ	15.297667	Observer's specified target Dec [deg]
ra_nom	189.96533313151	Nominal RA [deg]
dec_nom	15.302360178489	Nominal Dec [deg]
roll_nom	51.176637523963	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6925.4000533819	Sum of GTIs [s]
livetime	6834.9146032791	Livetime [s]
ontime6	6925.4000533819	Sum of GTIs [s]
ontime7	6925.4000533819	Sum of GTIs [s]
ontime8	6912.8361024857	Sum of GTIs [s]
l2events	39680	Number of level 2 events



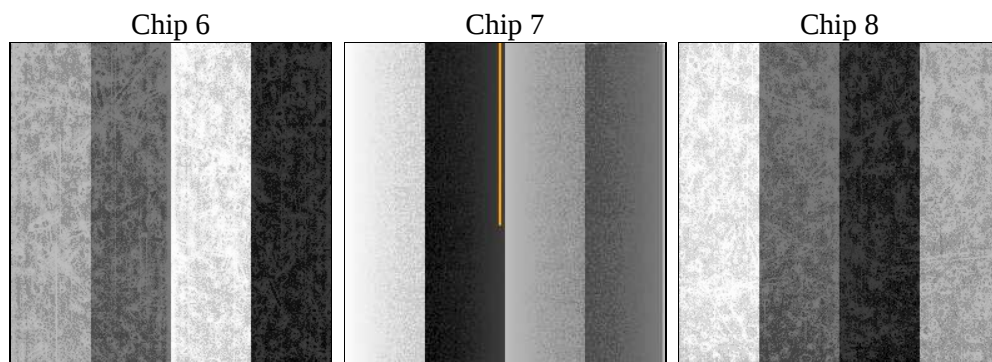
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	6925.4000533819	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime6	6925.4000533819	Sum of GTIs [s]
date	2018-11-15T16:34:32	Date and time of file creation	ontime7	6925.4000533819	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	6912.8361024857	Sum of GTIs [s]
			l1events	183776	Number of level 1 events

2.1.4 Events

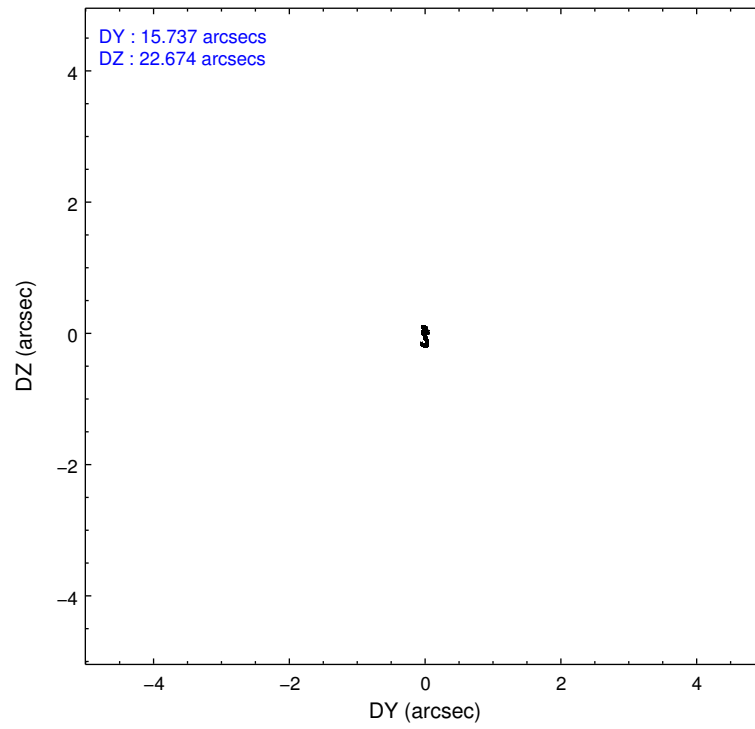
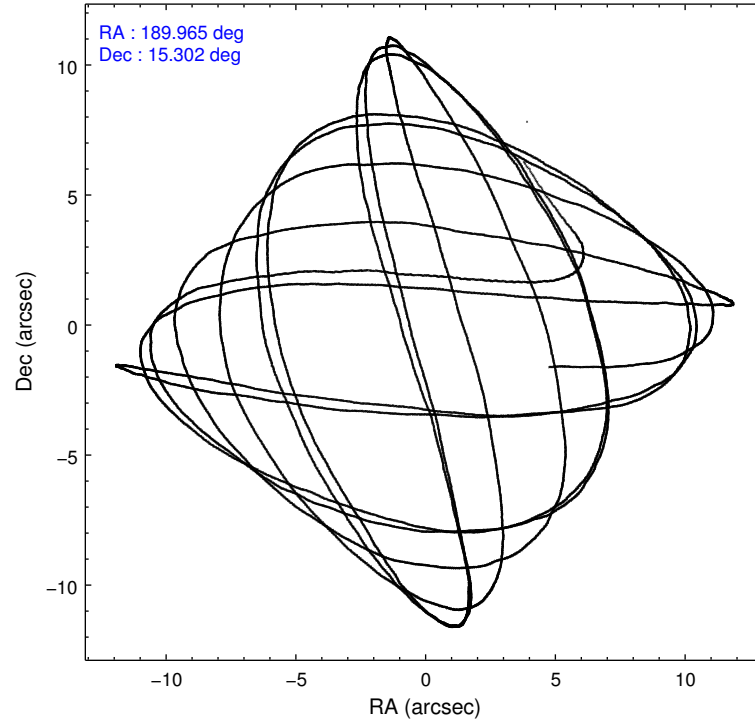
	ccd 6	ccd 7	ccd 8
level 1 events	48057	65288	70431
rejected events	42050	36636	50478
rejected %	87%	56%	71%

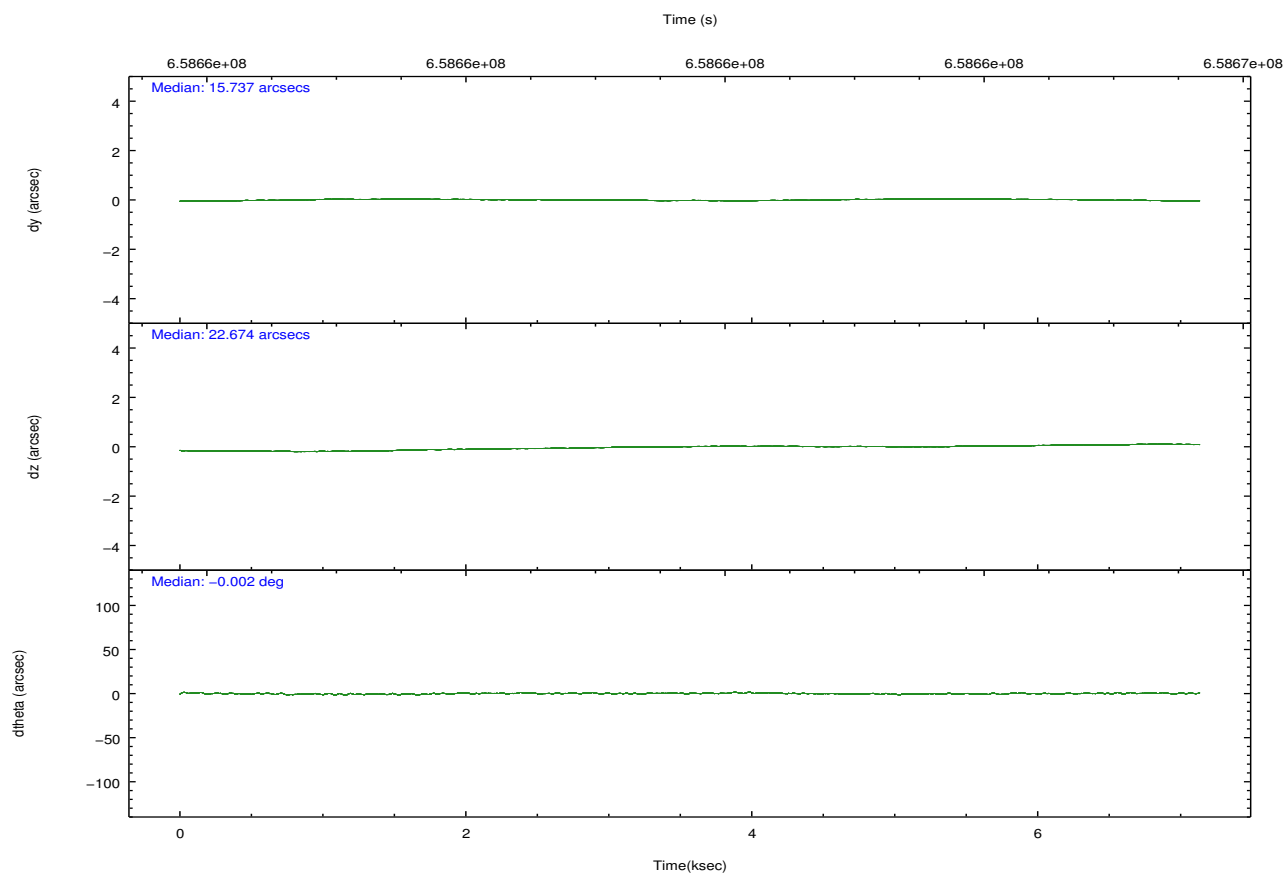
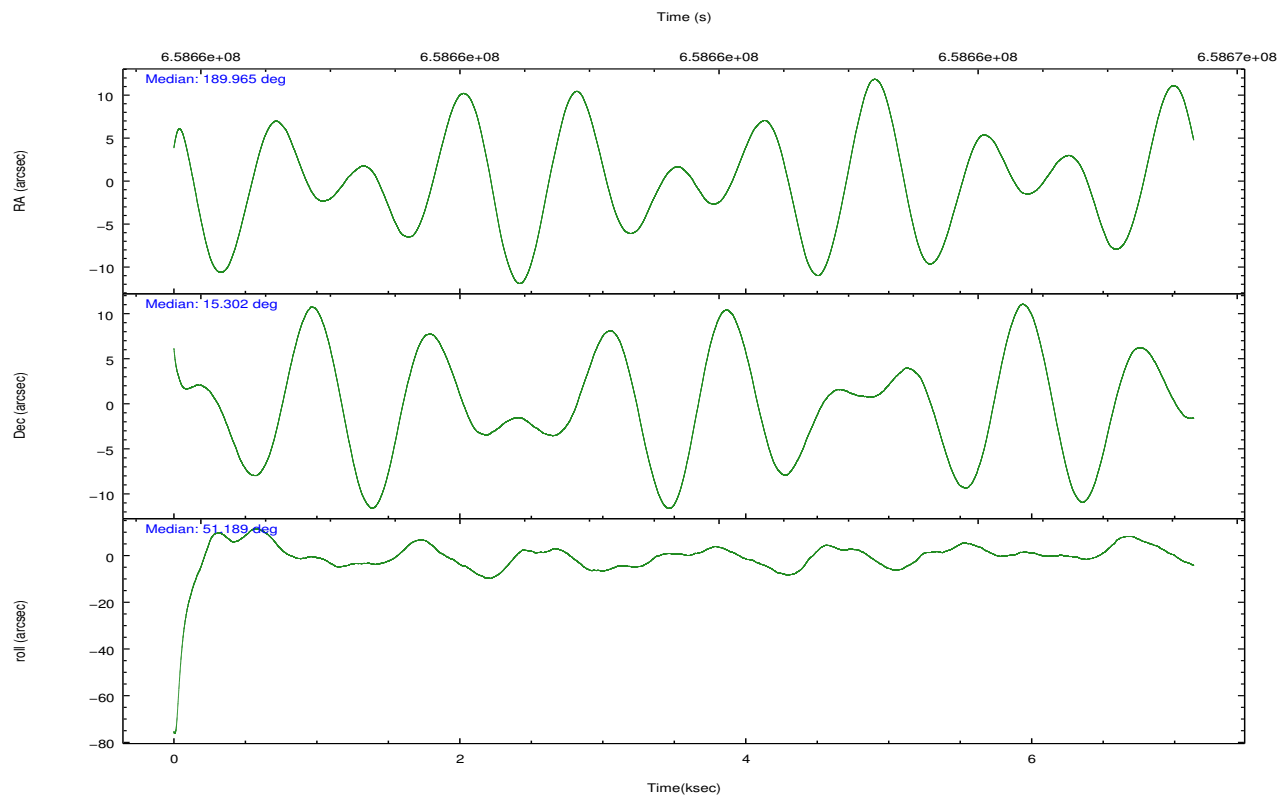
	ccd 6	ccd 7	ccd 8
grade 0 events	2091	2411	5549
	4%	3%	7%
grade 1 events	24	111	63
	0%	0%	0%
grade 2 events	1385	6165	5014
	2%	9%	7%
grade 3 events	627	2256	1944
	1%	3%	2%
grade 4 events	572	2299	1813
	1%	3%	2%
grade 5 events	2451	6594	3557
	5%	10%	5%
grade 6 events	1340	15548	5637
	2%	23%	8%
grade 7 events	39567	29904	46854
	82%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	189.961326	189.9653331315138	CCD I2 on	N	N
[deg] Pointing Dec	15.275172	15.30236017848941	CCD I3 on	N	N
[deg] Pointing Roll	51.021177	51.17663752396316	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	O1	Y
[s] Observation start time (MET)	658658306.184000	658657252.3094	CCD S5 on	N	N
Observation start date	2018-11-15T08:37:17	2018-11-15T08:20:52	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	658665306.184000	658666388.13495	On-chip summing requested	N	N
Observation end date	2018-11-15T10:33:57	2018-11-15T10:53:08	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



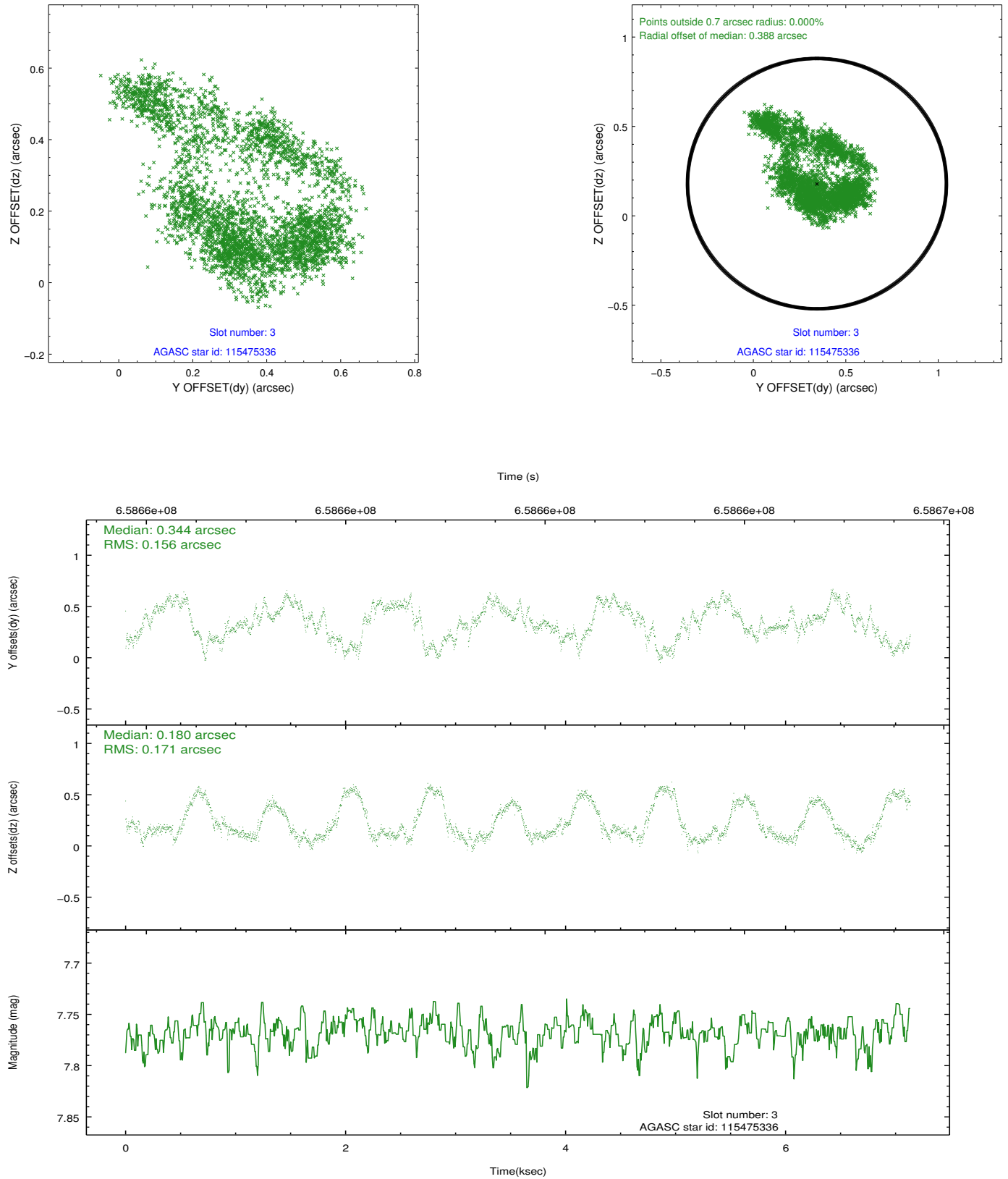


Slot Statistics

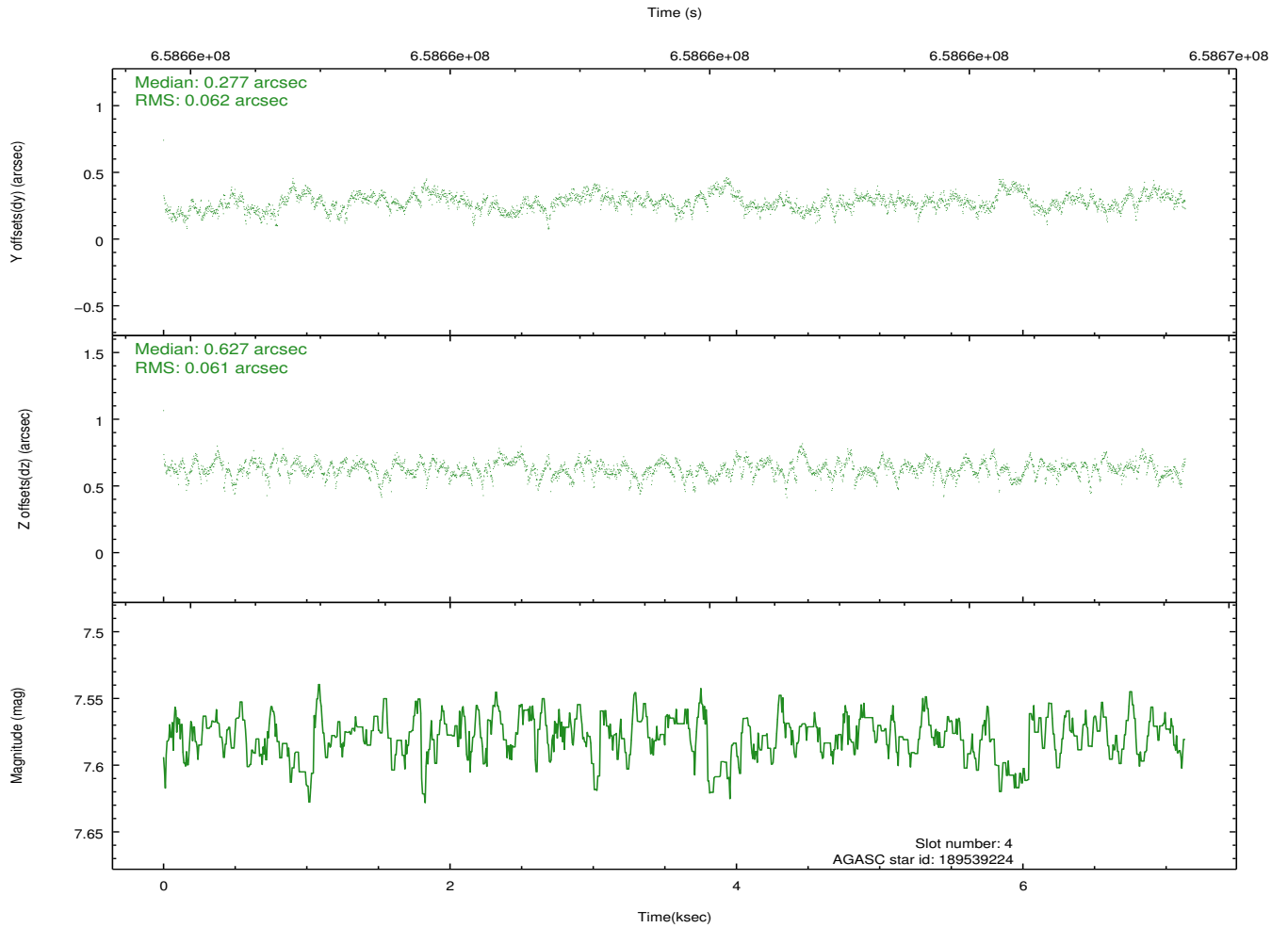
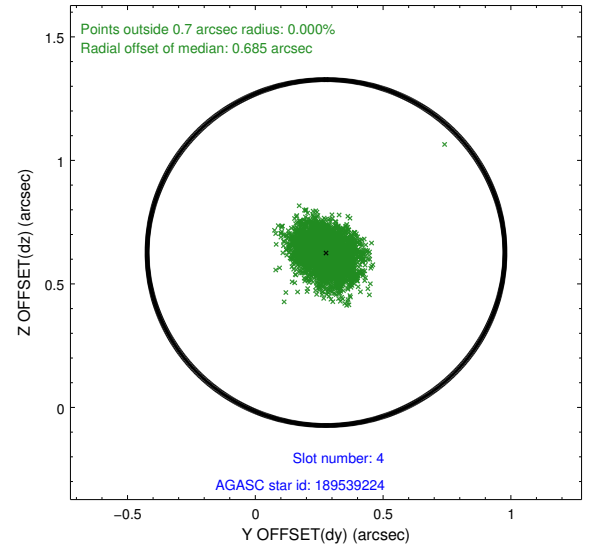
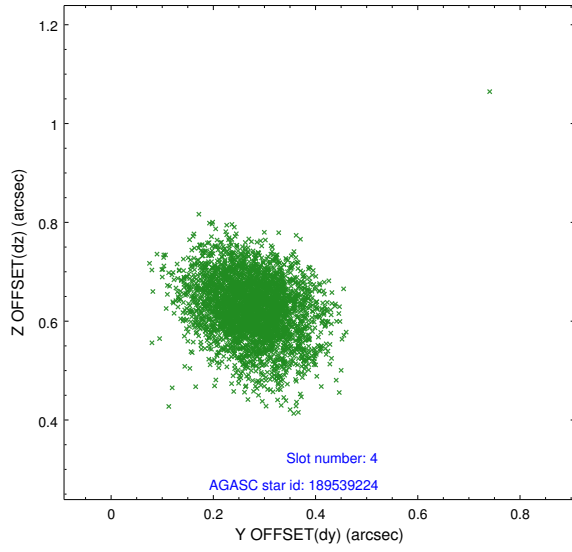
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.04	1740	1.000	-0.494	-0.349	0.008	0.014	0.000000	0.000000	-769.28	-1744
1	FID		ACIS-S-4	7.17	1740	1.000	0.503	0.292	0.007	0.011	0.000000	0.000000	2144.69	163
2	FID		ACIS-S-6	7.32	1740	1.000	-0.037	0.064	0.007	0.013	0.000000	0.000000	394.27	801
3	GUIDE	used	115475336	7.77	3481	1.000	0.344	0.180	0.234	0.437	189.606179	14.872414	-1903.92	50
4	GUIDE	used	189539224	7.58	3481	1.000	0.277	0.627	0.092	0.150	190.277008	15.376622	969.11	-627
5	GUIDE	used	189539496	9.18	3478	1.000	-0.308	-0.199	0.162	0.259	189.792861	15.435545	81.37	817
6	GUIDE	used	189541584	9.69	3477	1.000	0.023	-0.210	0.328	0.478	190.083512	15.474400	822.76	121
7	GUIDE	used	189542360	9.23	3477	1.000	-0.298	-0.423	0.208	0.379	189.972008	16.014689	2092.50	1645

2.4 Star Slots

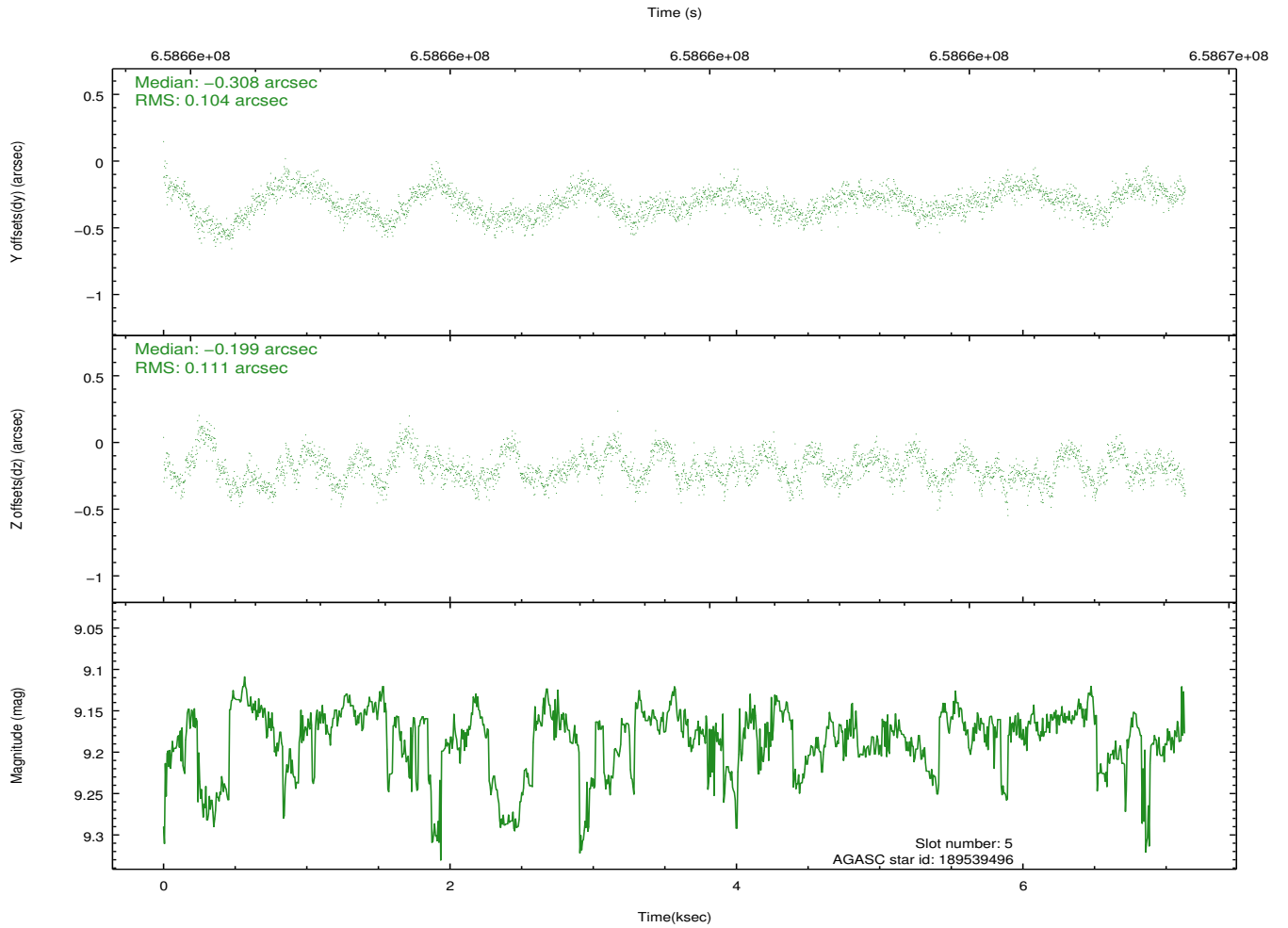
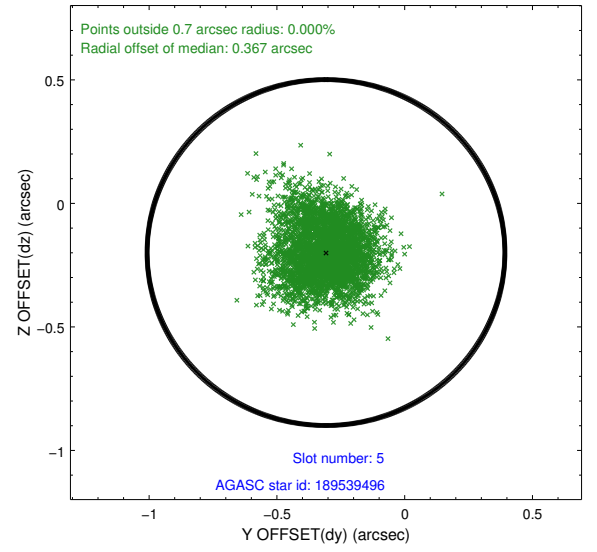
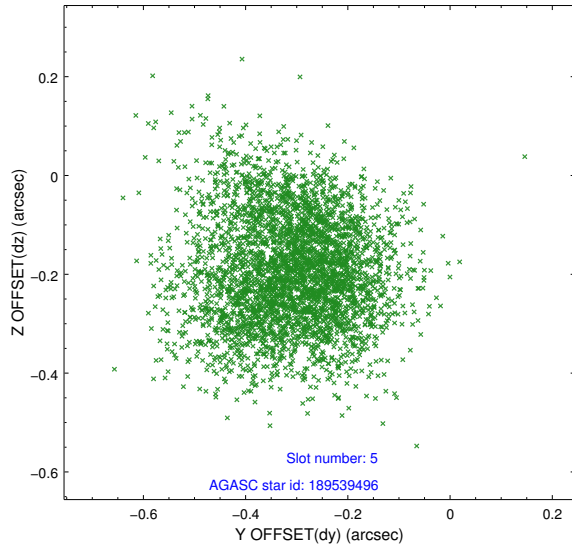
2.4.1 Slot 3



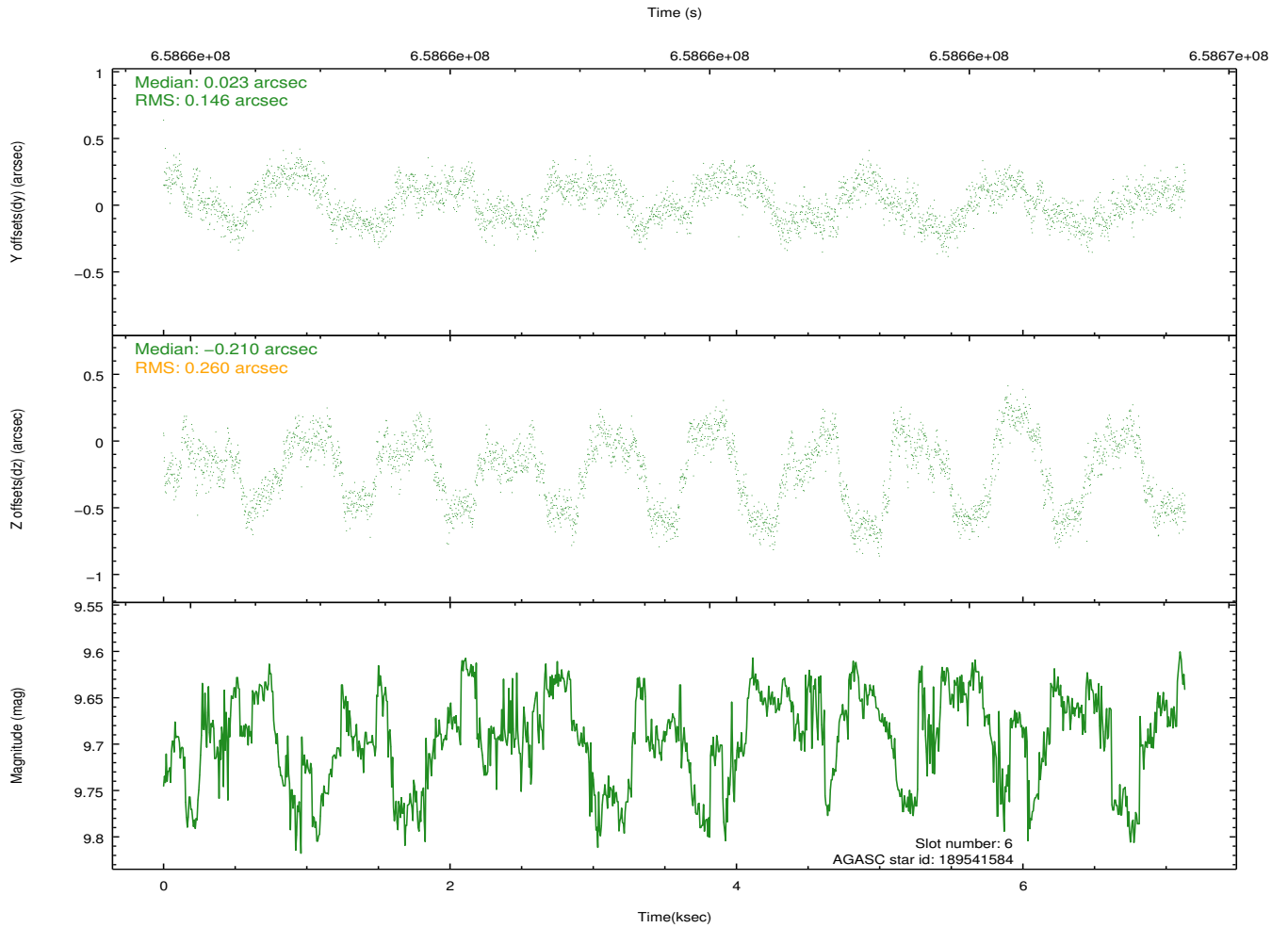
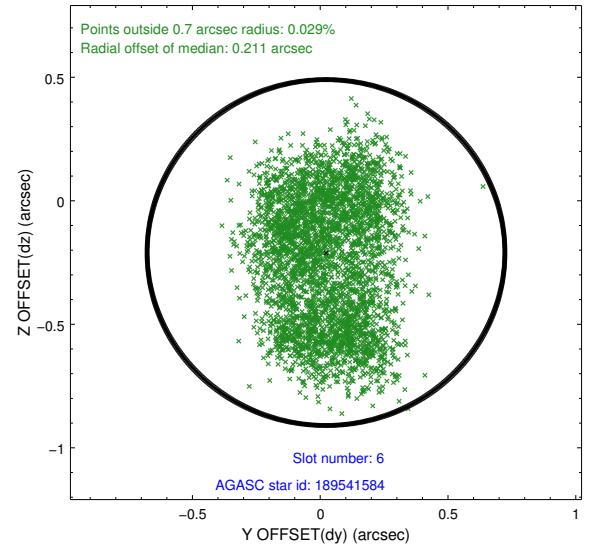
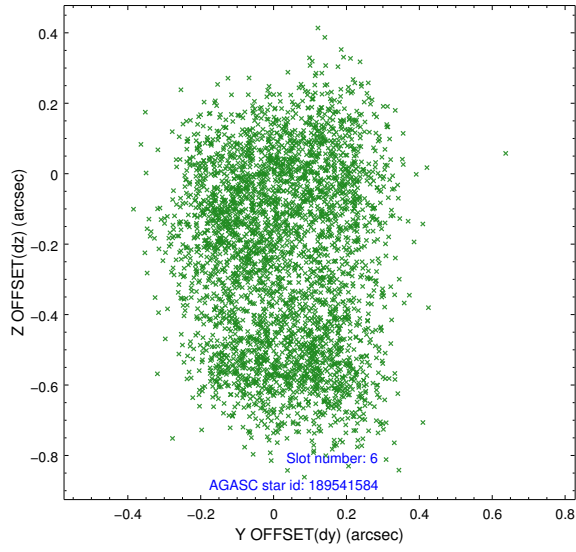
2.4.2 Slot 4



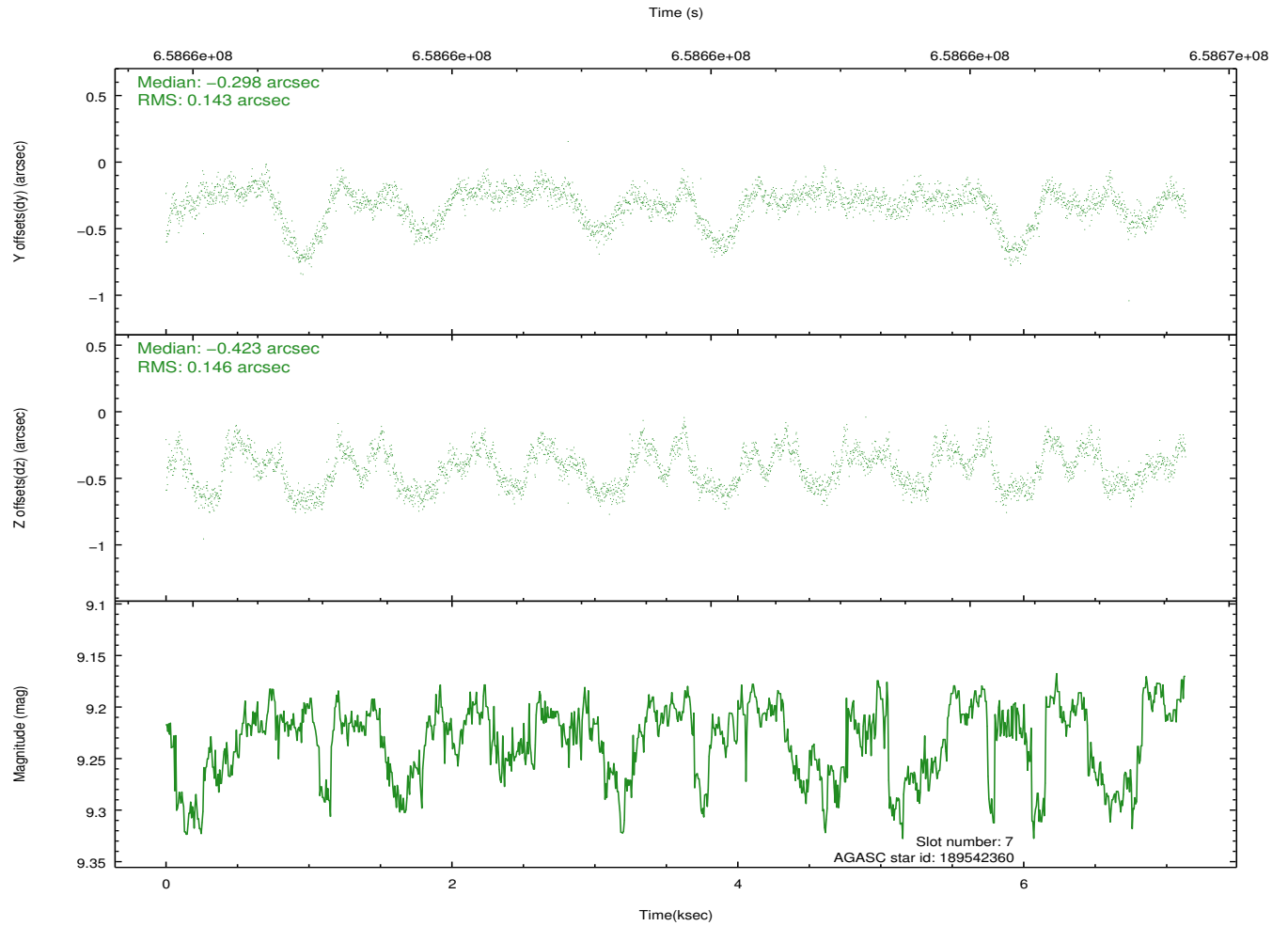
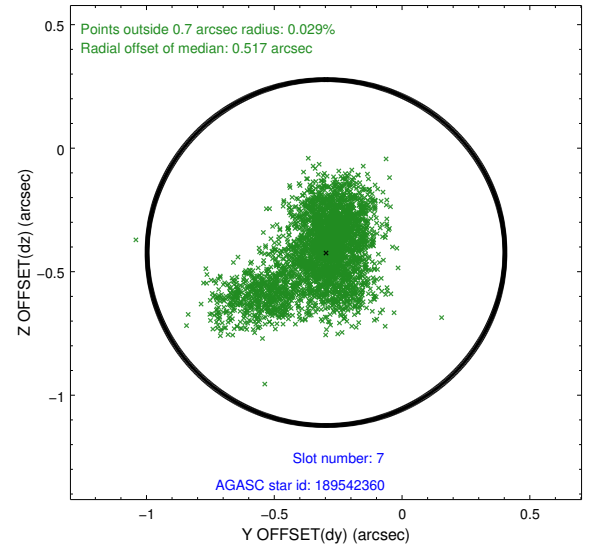
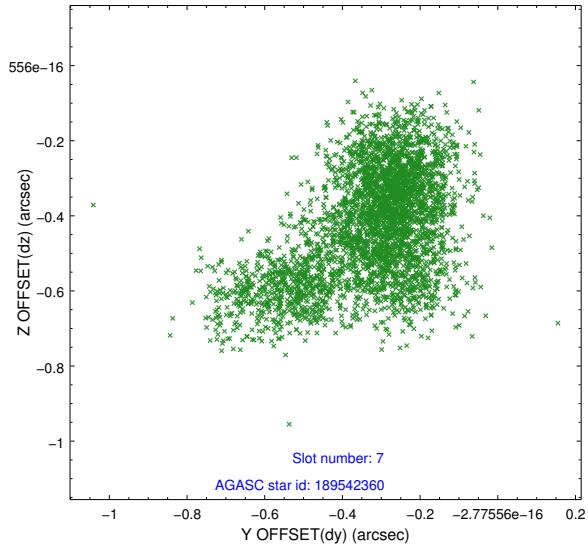
2.4.3 Slot 5



2.4.4 Slot 6

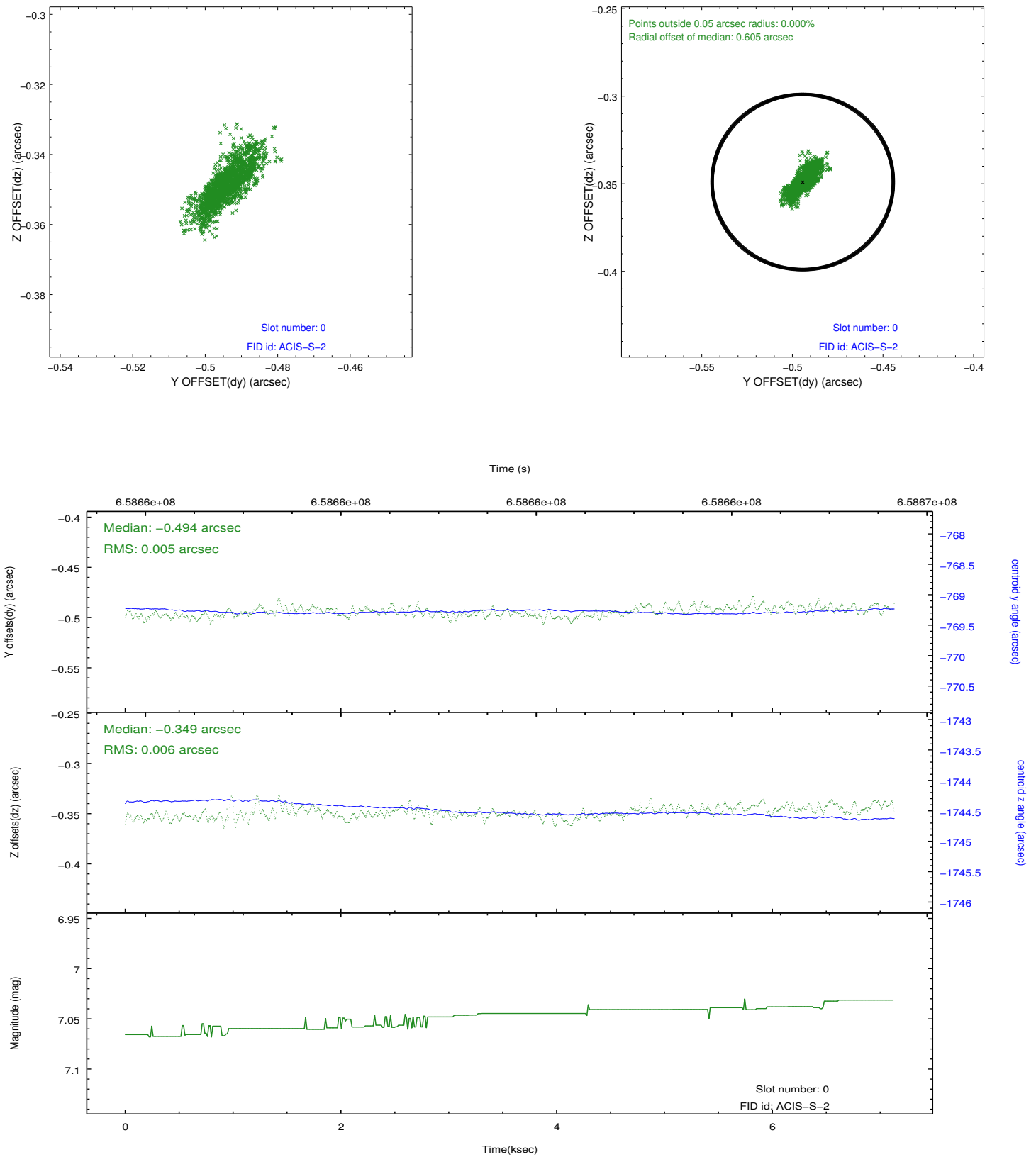


2.4.5 Slot 7

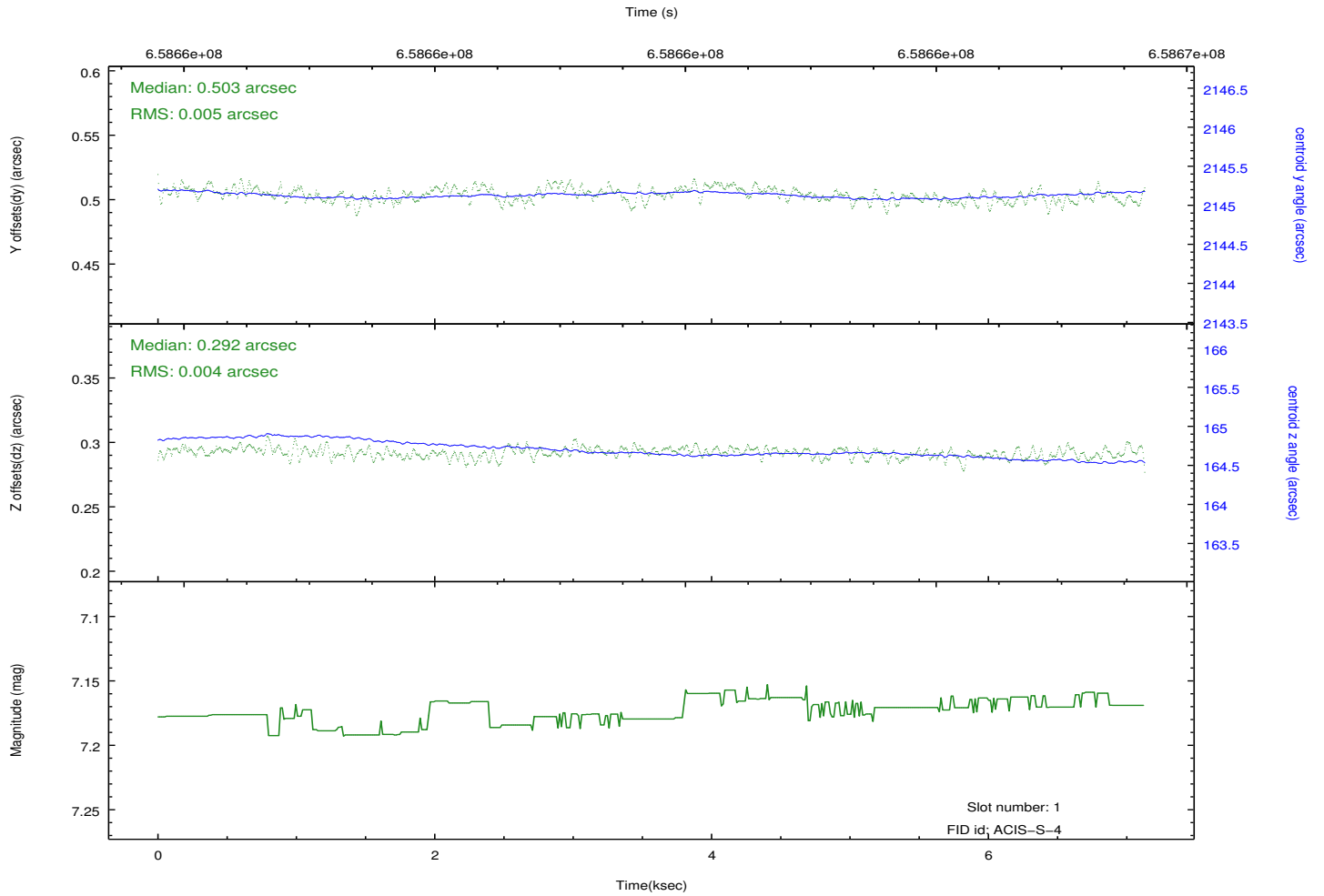
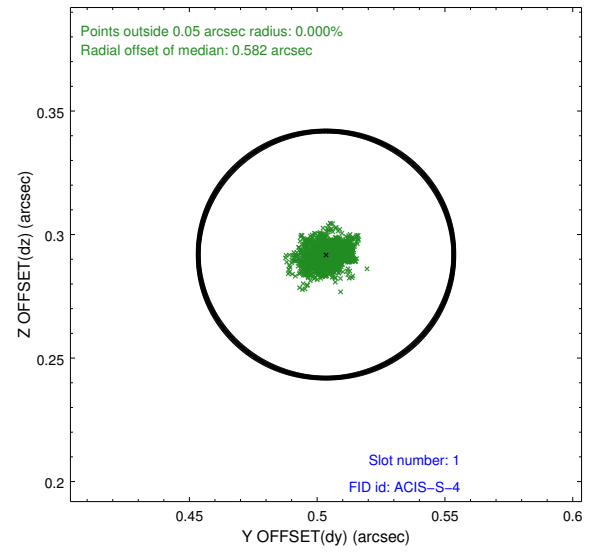
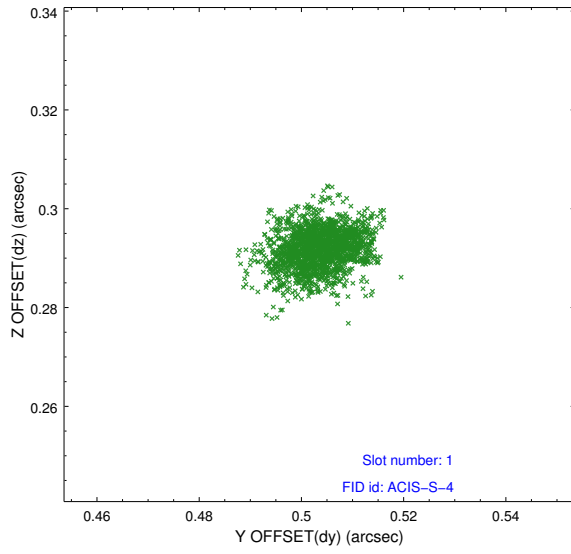


2.5 FID Slots

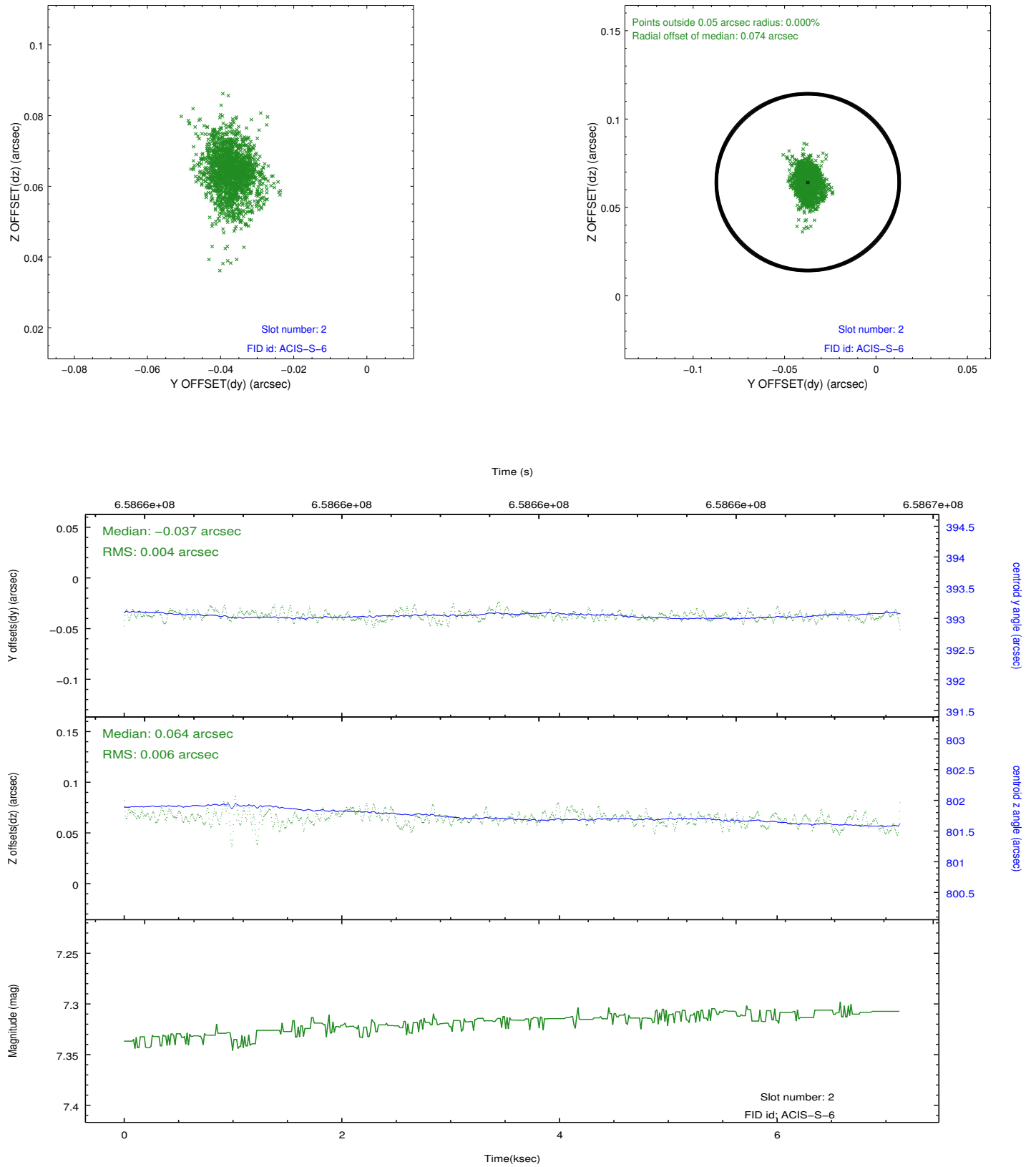
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2018.11.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.9254000533819

A.2 Comments