

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21280 - L2 Version 1
Chandra X-Ray Center

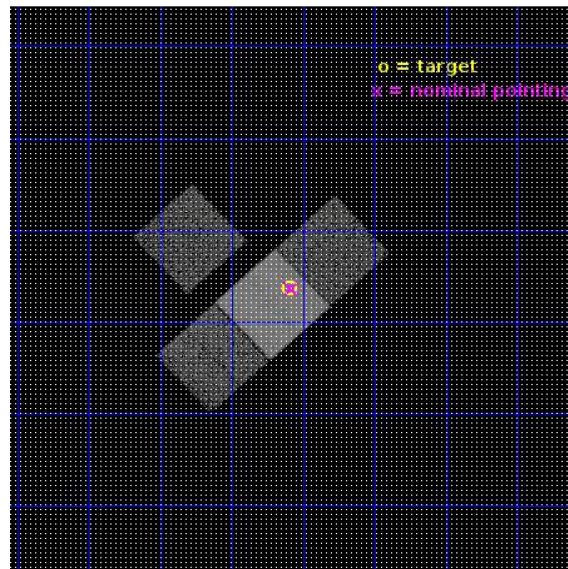
L2 Processing Date : Aug 3 2019

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1 Front

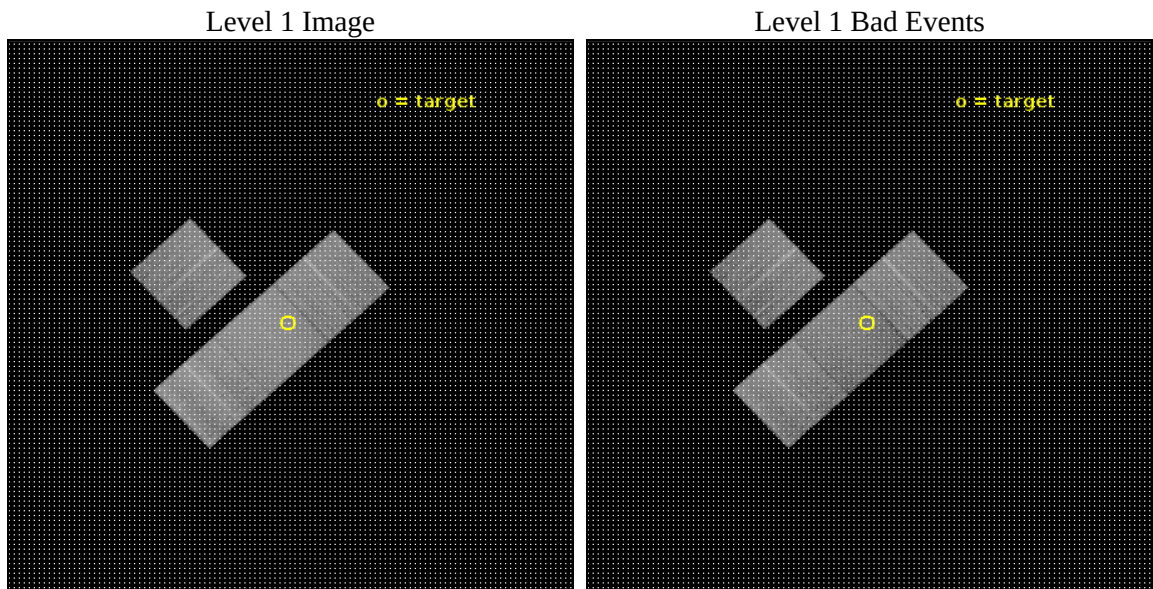
seq_num	300412	Sequence number
obs_id	21280	Observation id
title	The Mysterious Boundary Layers in High Accretion Rate White Dwarf Binaries	Proposal title
observer	Koji Mukai	Principal investigator
object	UU Aqr	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	332.274167	Observer's specified target RA [deg]
dec_targ	-3.771583	Observer's specified target Dec [deg]
ra_nom	332.27111272474	Nominal RA [deg]
dec_nom	-3.7731472432102	Nominal Dec [deg]
roll_nom	137.15637616974	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15062.900115967	Sum of GTIs [s]
livetime	14866.092236806	Livetime [s]
ontime3	15062.900115967	Sum of GTIs [s]
ontime6	15059.759005666	Sum of GTIs [s]
ontime7	15062.900115967	Sum of GTIs [s]
ontime8	15062.900115967	Sum of GTIs [s]
l2events	99440	Number of level 2 events



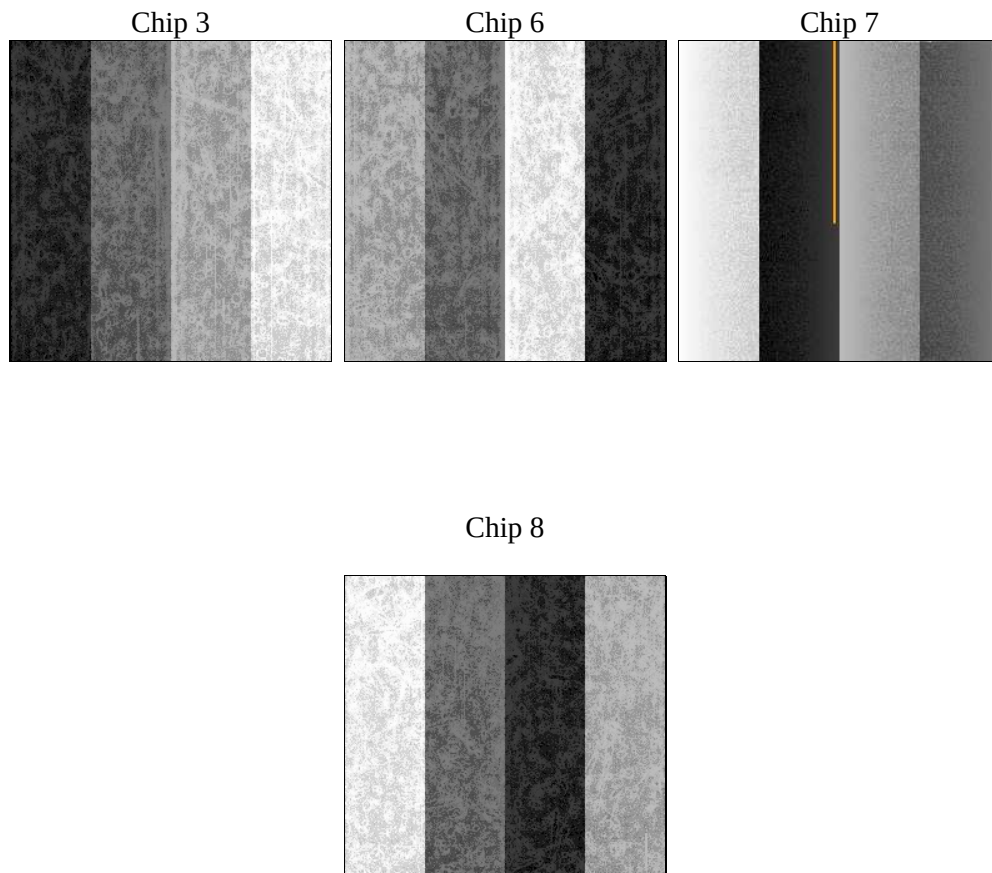
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	15062.900115967	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime3	15062.900115967	Sum of GTIs [s]
date	2019-08-03T21:13:12	Date and time of file creation	ontime6	15059.759005666	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	15062.900115967	Sum of GTIs [s]
			ontime8	15062.900115967	Sum of GTIs [s]
			l1events	544984	Number of level 1 events

2.1.4 Events

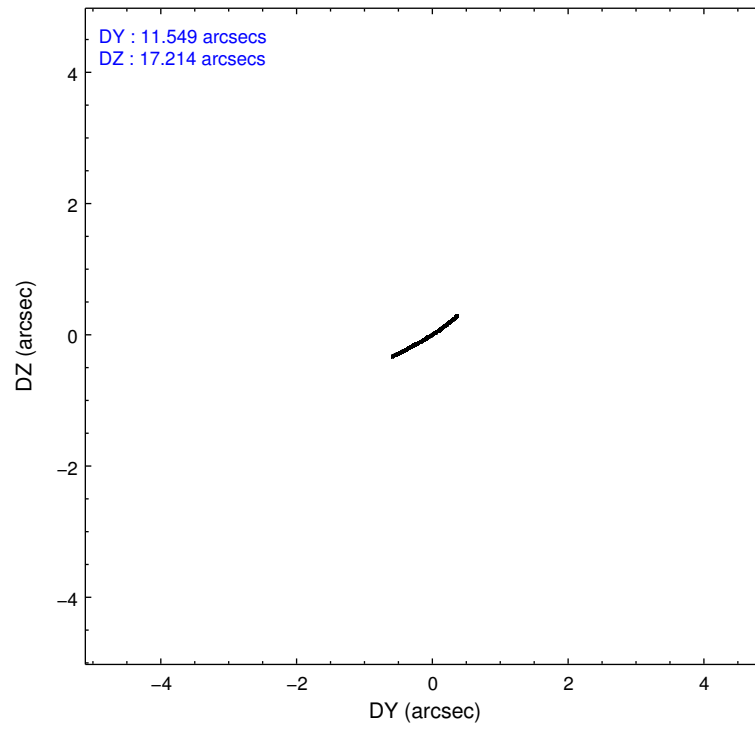
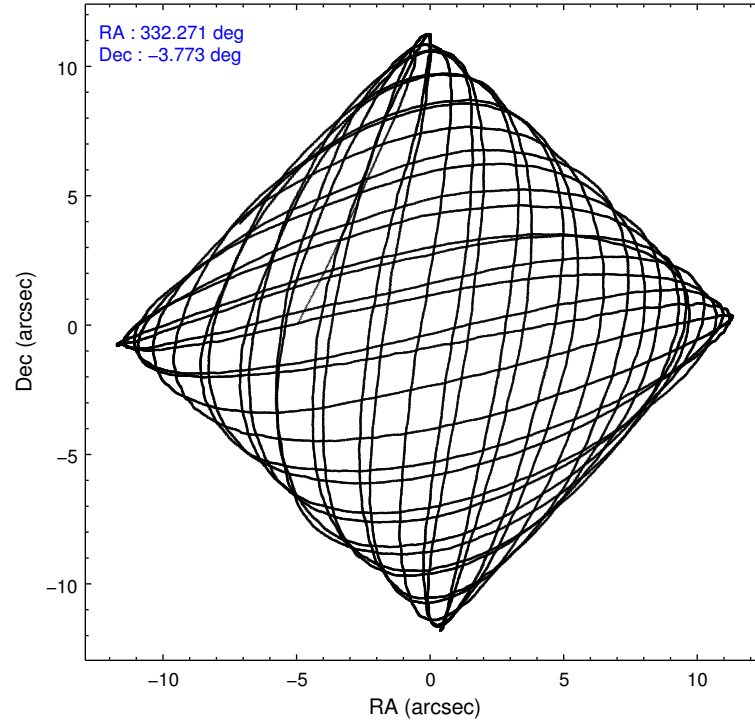
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	112911	125569	154396	152108
rejected events	101538	112568	87302	114685
rejected %	89%	89%	56%	75%

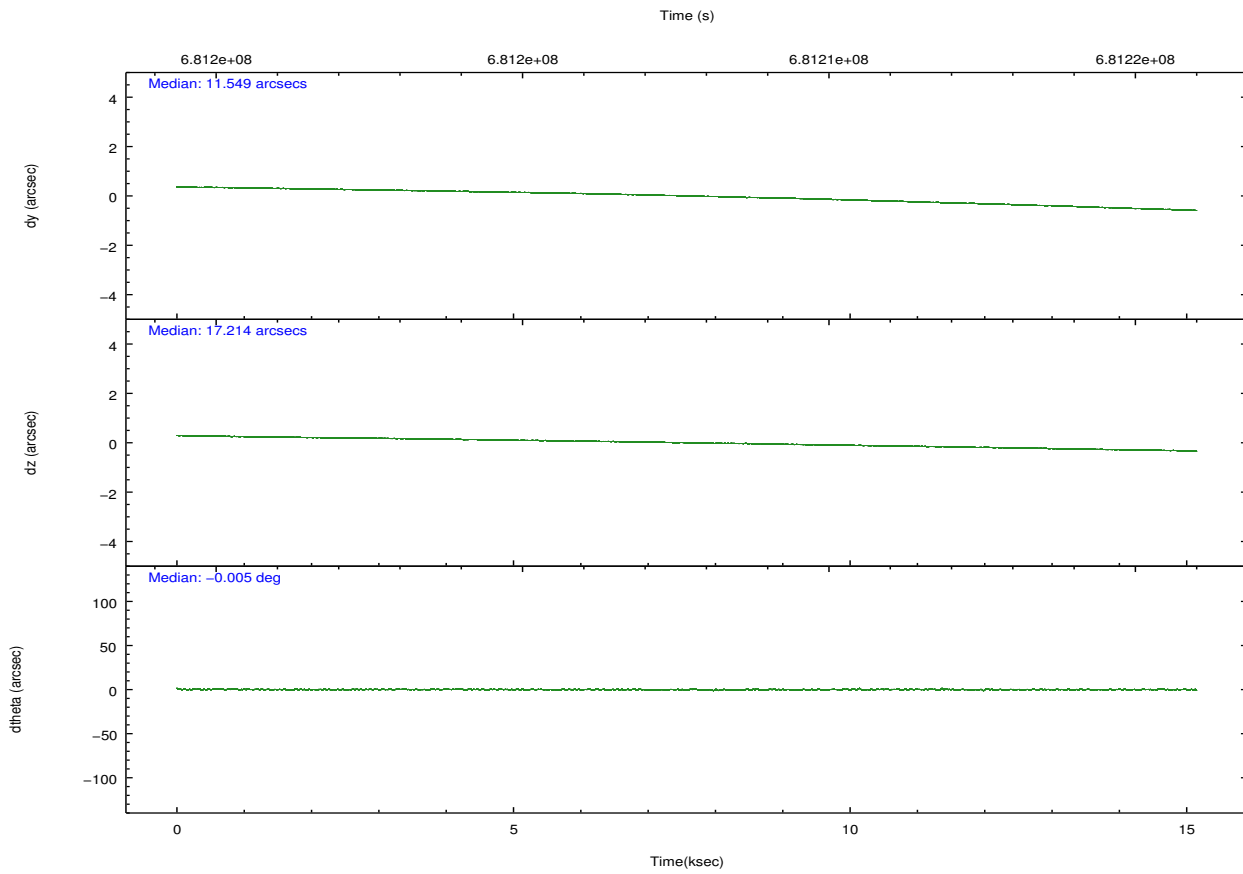
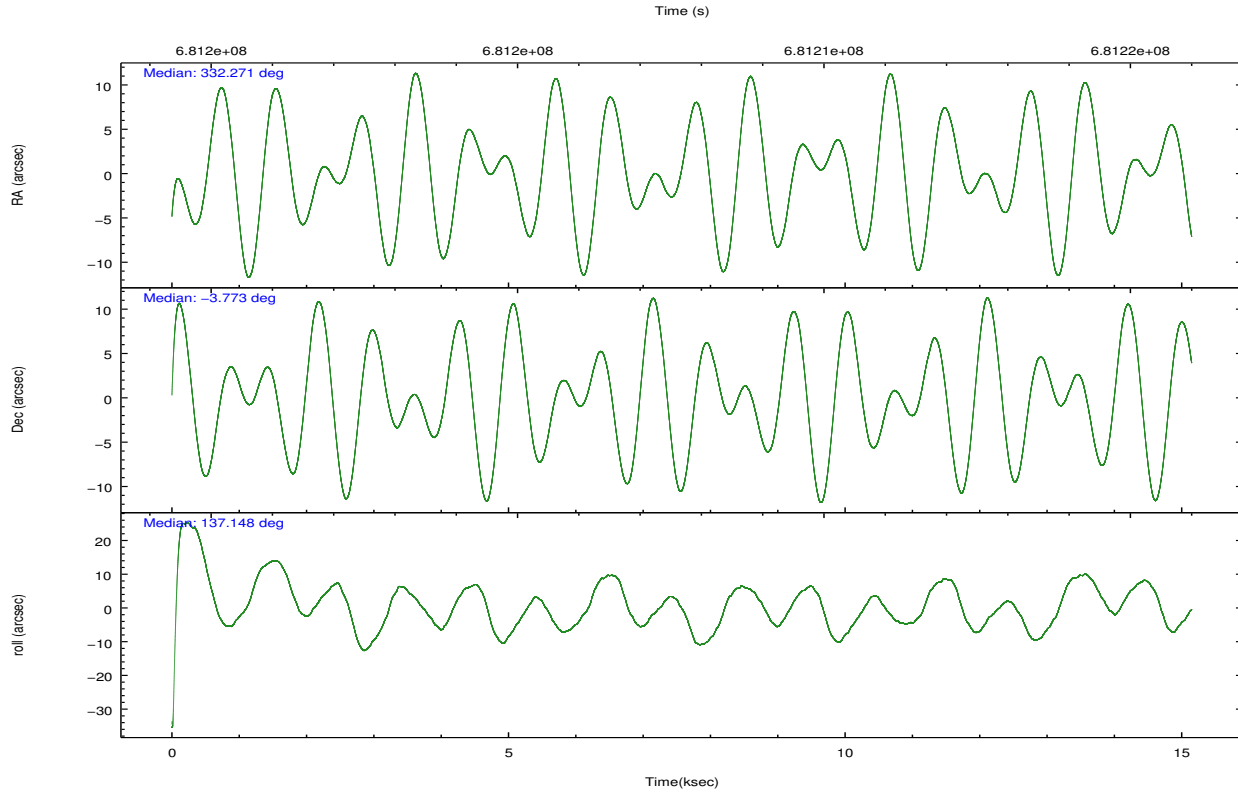
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3830	3495	5773	10067
	3%	2%	3%	6%
grade 1 events	60	48	275	95
	0%	0%	0%	0%
grade 2 events	2535	3682	14039	9412
	2%	2%	9%	6%
grade 3 events	1151	1074	5134	3858
	1%	0%	3%	2%
grade 4 events	1172	1067	5183	3534
	1%	0%	3%	2%
grade 5 events	4915	4781	14522	7679
	4%	3%	9%	5%
grade 6 events	2690	3685	36978	10609
	2%	2%	23%	6%
grade 7 events	96558	107737	72492	106854
	85%	85%	46%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	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	332.298009	332.2711127247362	CCD I2 on	O1	N
[deg] Pointing Dec	-3.778919	-3.773147243210172	CCD I3 on	Y	Y
[deg] Pointing Roll	137.001575	137.1563761697372	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)	681200263.184000	681198480.68303	CCD S5 on	N	N
Observation start date	2019-08-03T06:16:34	2019-08-03T05:48:00	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	681215263.184000	681216308.5091	On-chip summing requested	N	N
Observation end date	2019-08-03T10:26:34	2019-08-03T10:45:08	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



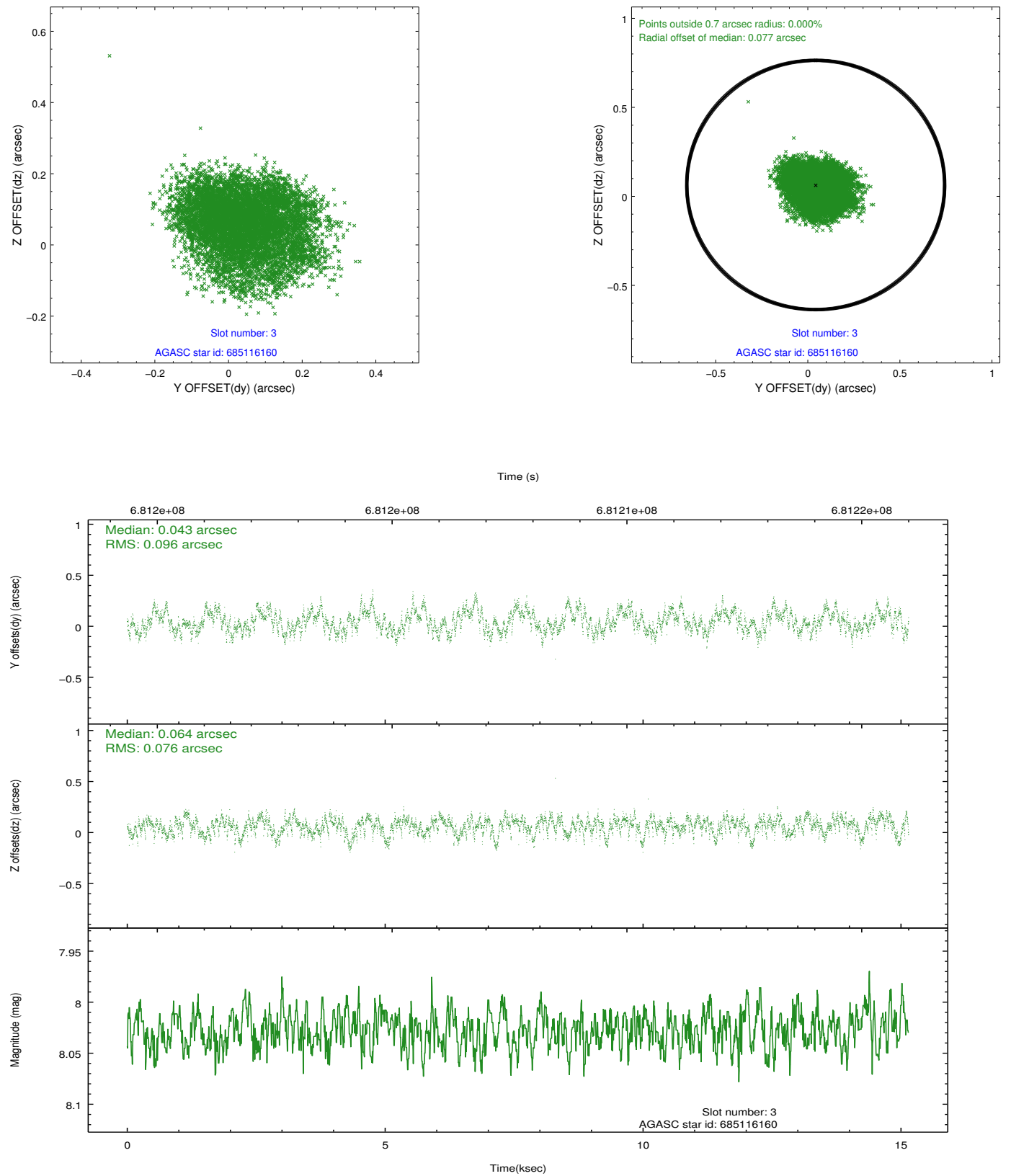


Slot Statistics

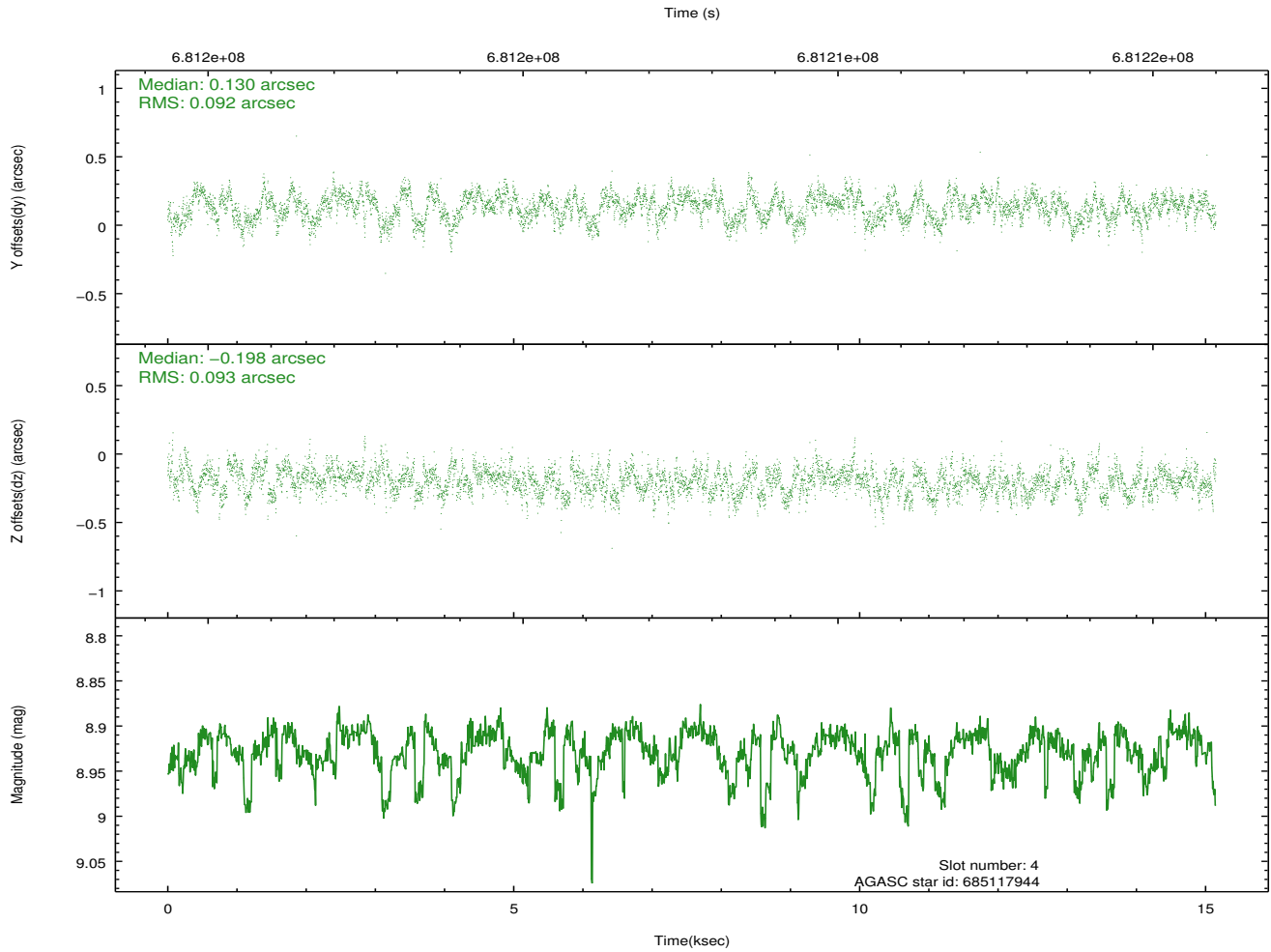
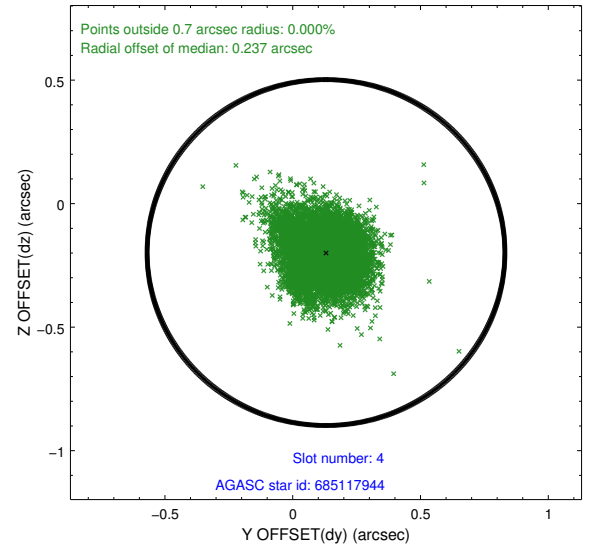
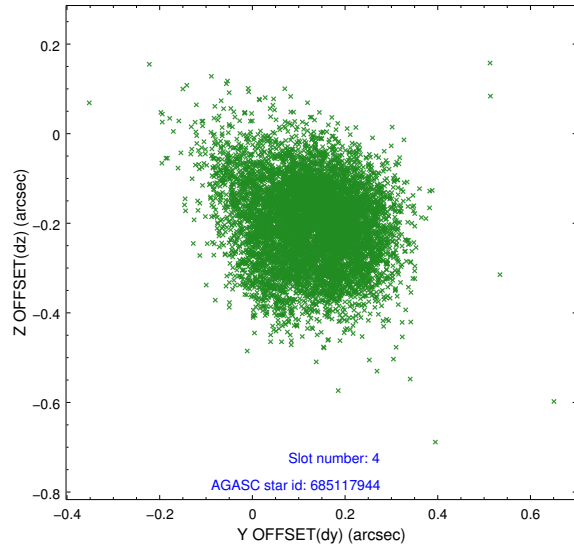
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.14	3695	1.000	-0.237	-0.196	0.013	0.020	0.000000	0.000000	-764.58	-1738
1	FID		ACIS-S-4	7.28	3695	1.000	0.679	0.167	0.006	0.010	0.000000	0.000000	2149.43	169
2	FID		ACIS-S-5	7.24	3695	1.000	-0.472	0.038	0.014	0.023	0.000000	0.000000	-1817.32	163
3	GUIDE	used	685116160	8.03	7382	1.000	0.043	0.064	0.134	0.204	332.049595	-3.531320	1260.74	-42
4	GUIDE	used	685117944	8.93	7380	1.000	0.130	-0.198	0.139	0.220	332.109063	-4.461743	-1180.93	2260
5	GUIDE	used	685120448	8.93	7377	1.000	-0.285	-0.427	0.121	0.207	331.863820	-4.147860	233.96	2036
6	GUIDE	used	685247552	9.35	7377	1.000	-0.072	0.135	0.229	0.353	332.591248	-3.433875	76.43	-1626
7	GUIDE	used	685257856	6.78	7388	1.000	0.191	0.444	0.139	0.226	332.587953	-3.894086	-1044.79	-405

2.4 Star Slots

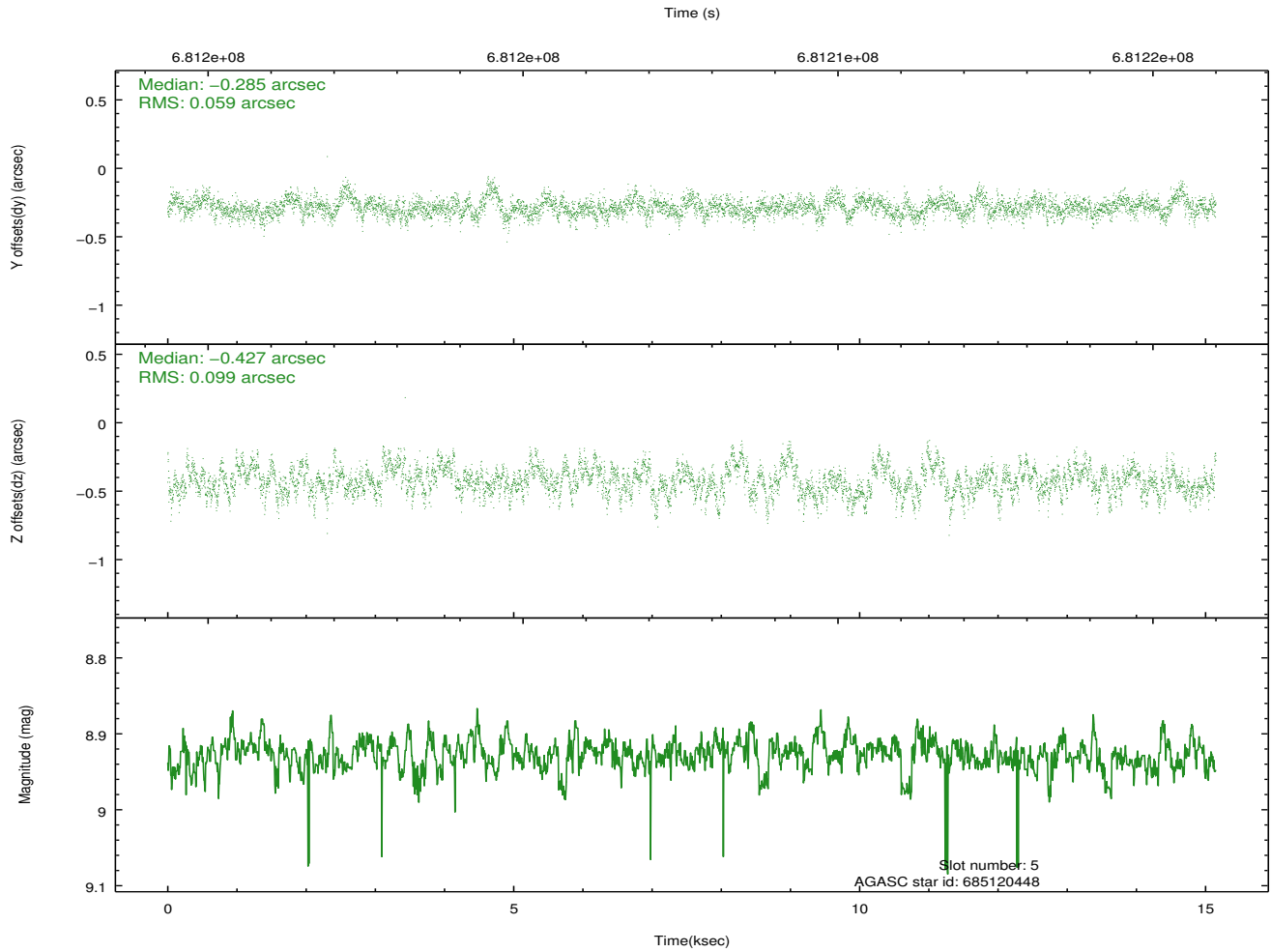
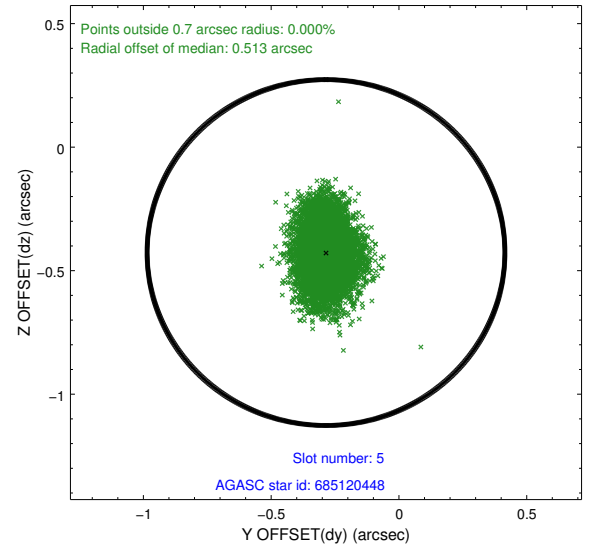
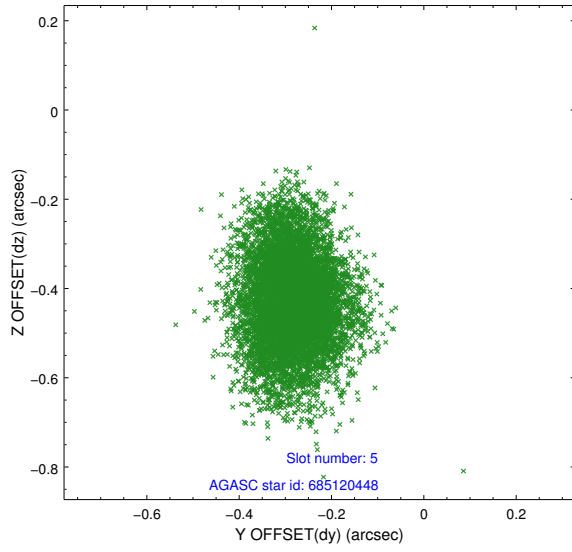
2.4.1 Slot 3



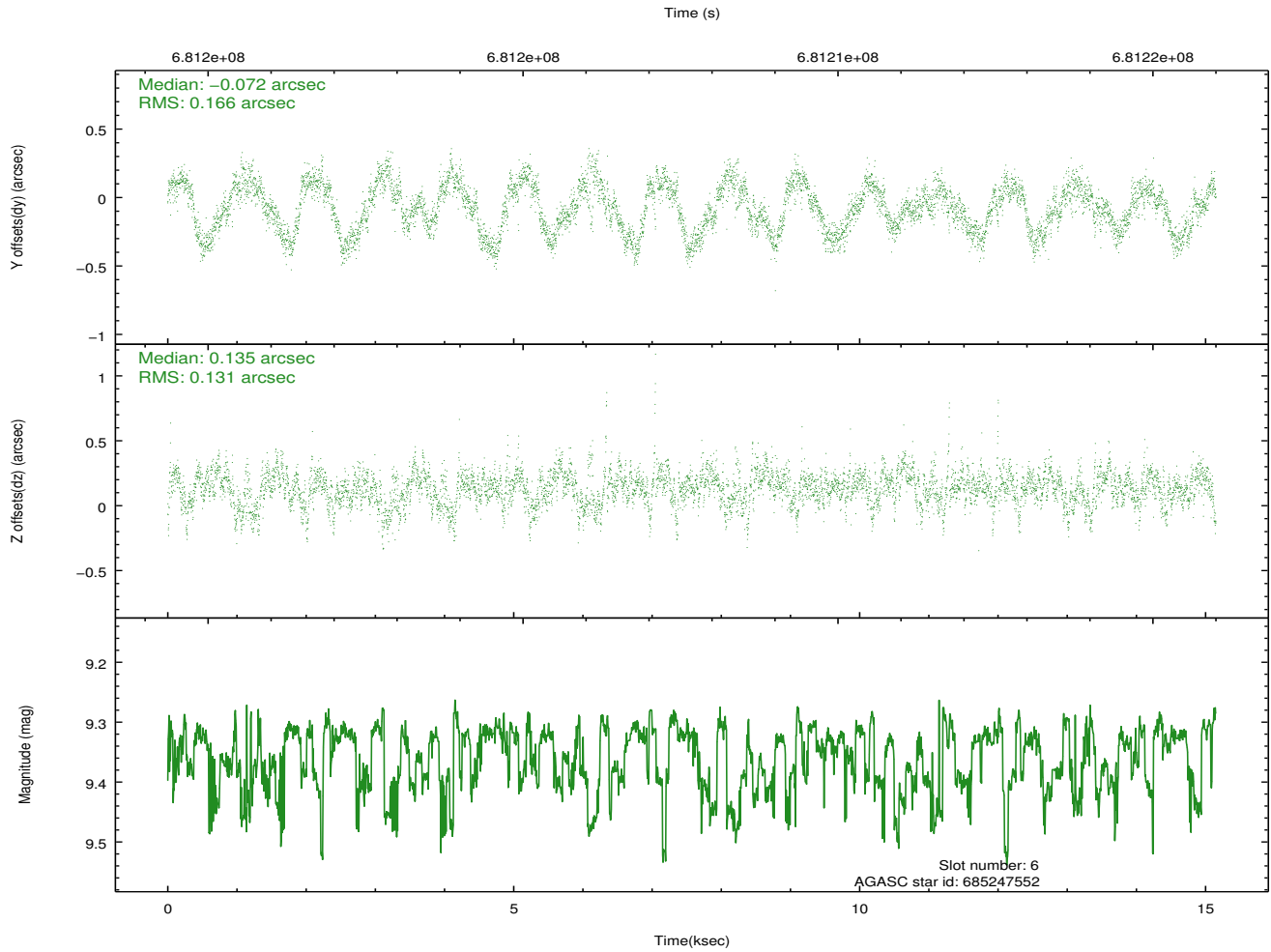
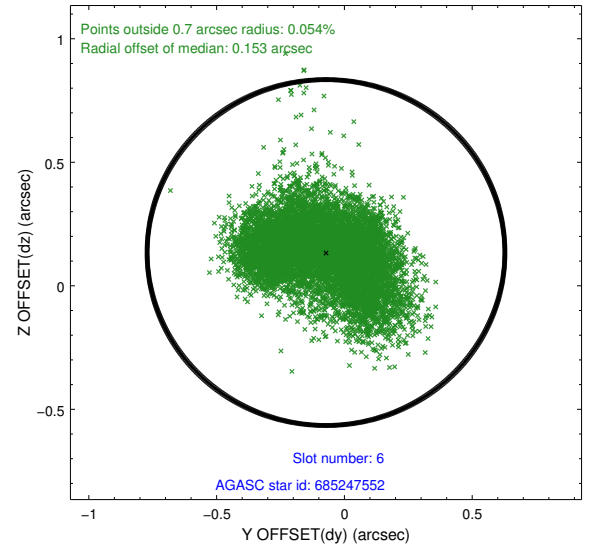
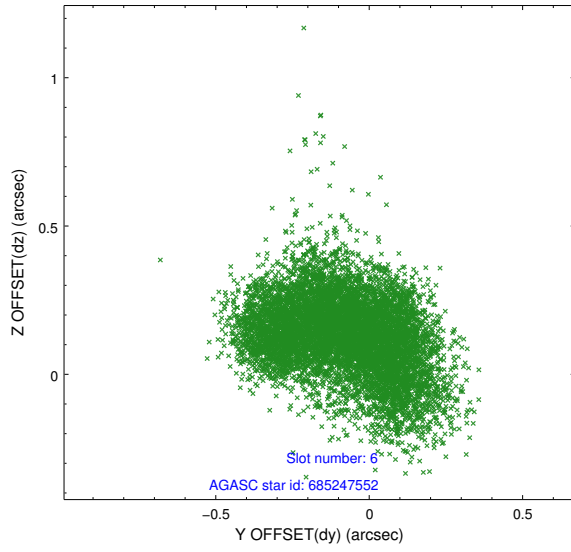
2.4.2 Slot 4



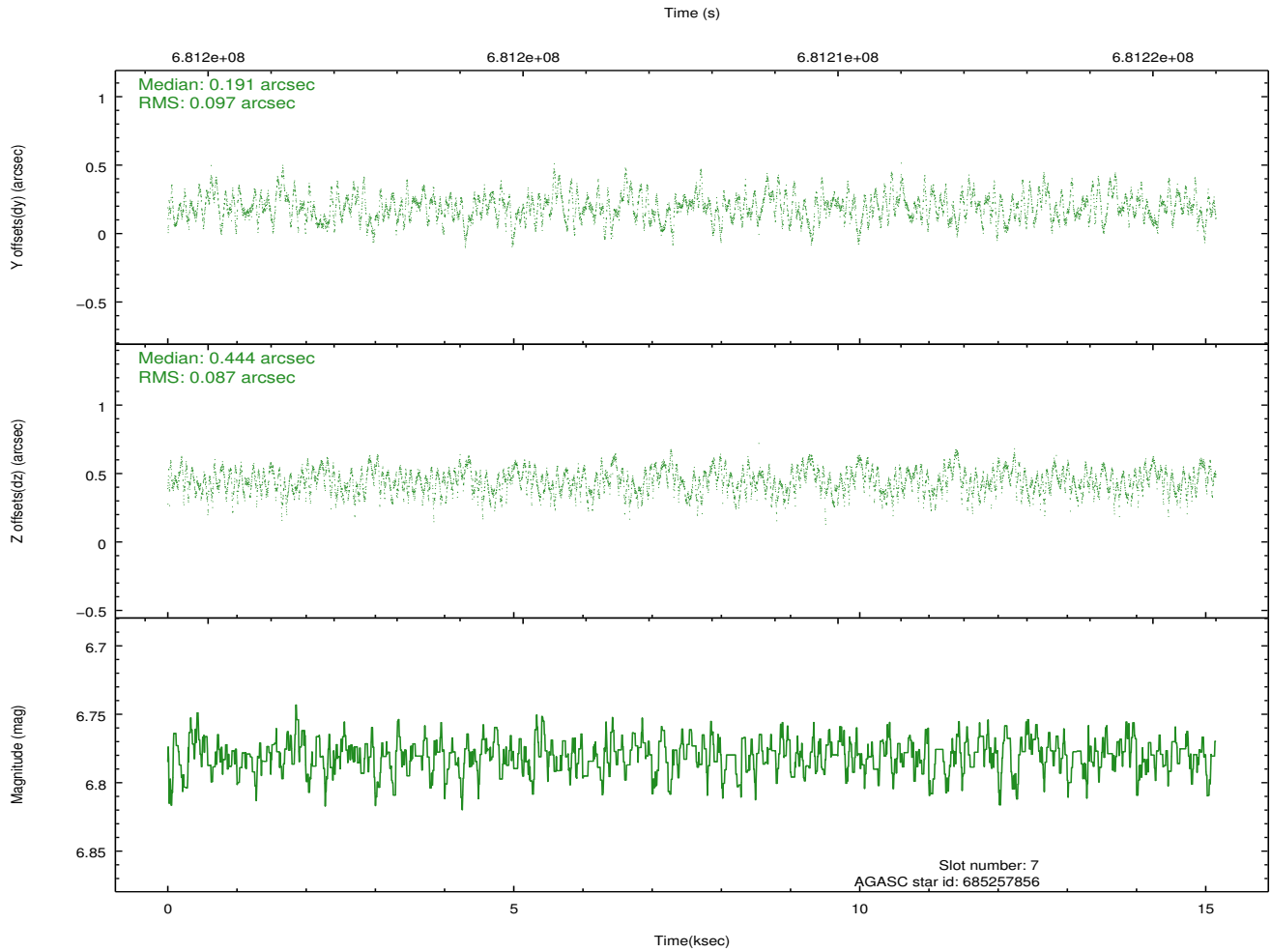
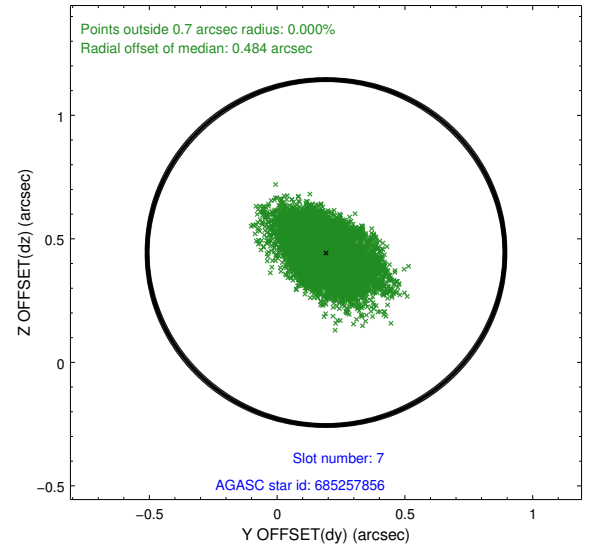
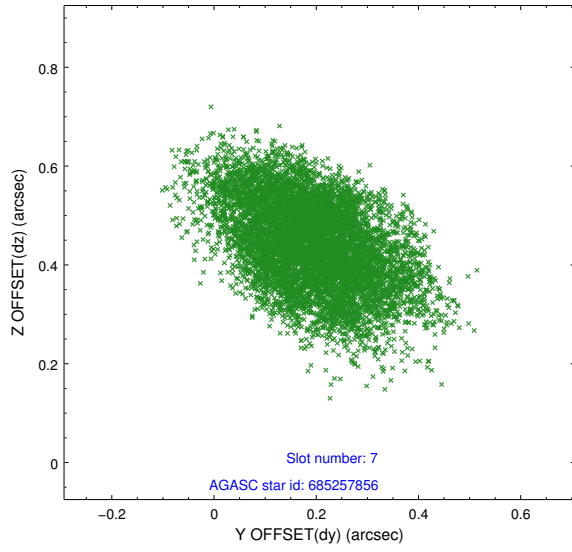
2.4.3 Slot 5



2.4.4 Slot 6

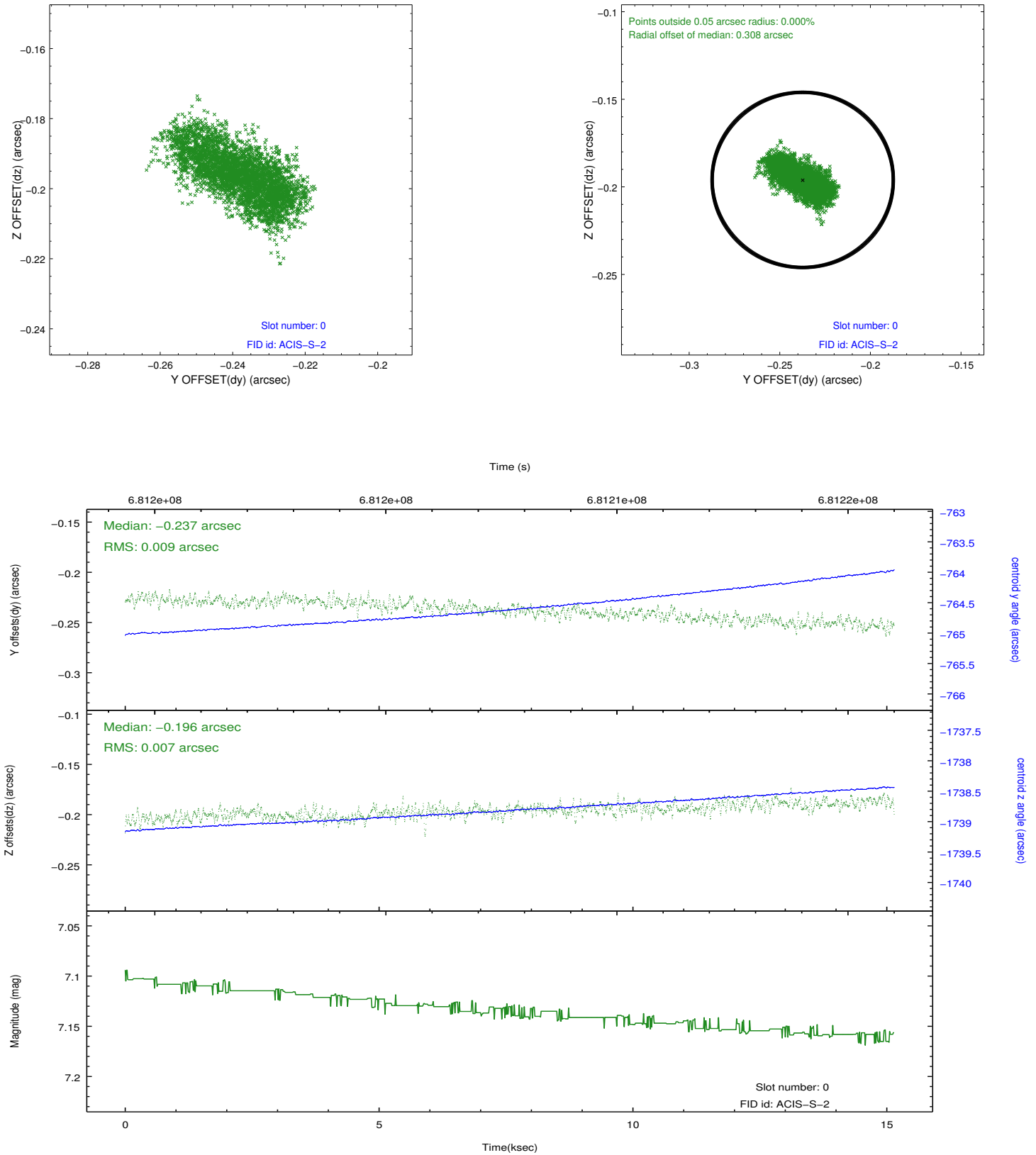


2.4.5 Slot 7

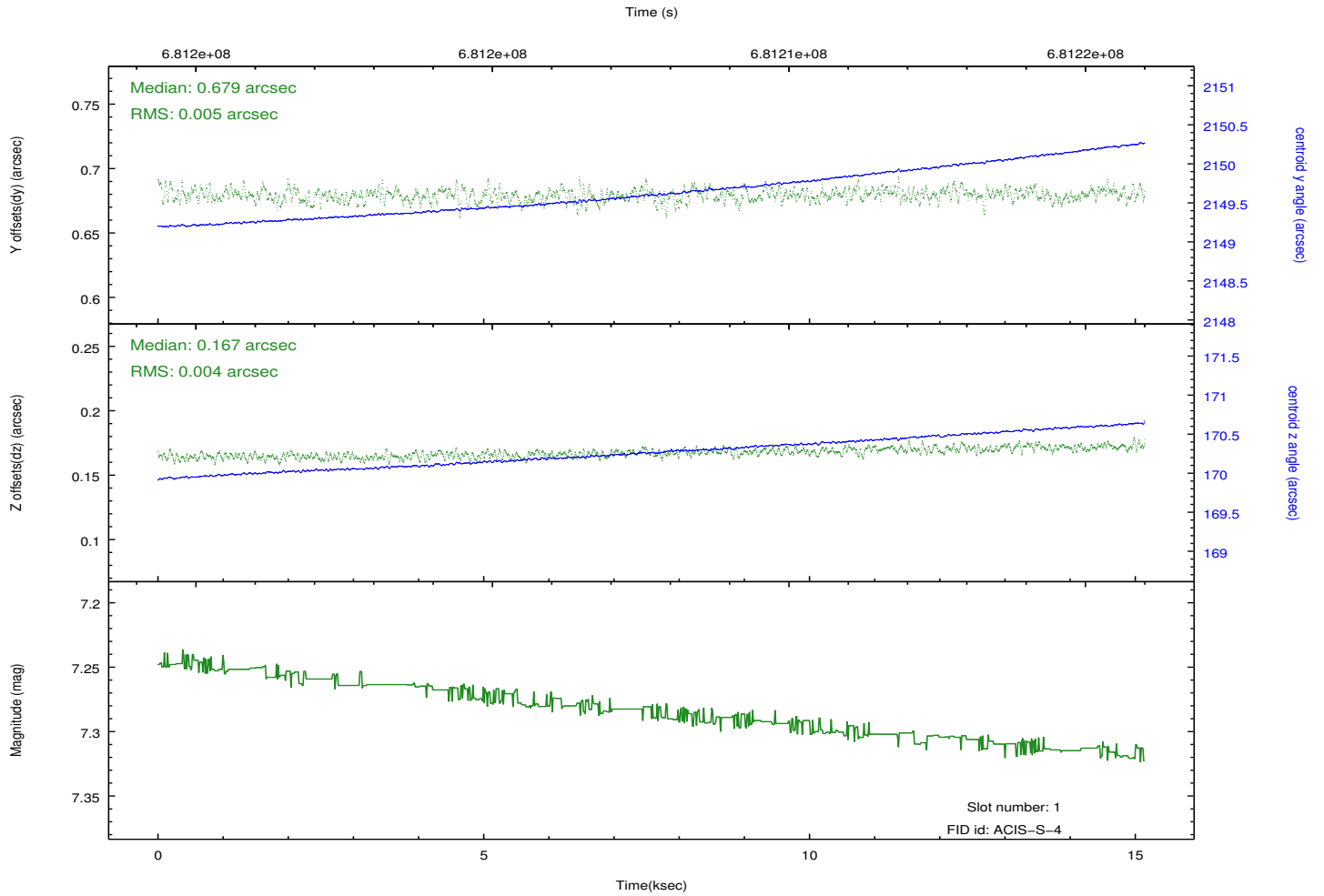
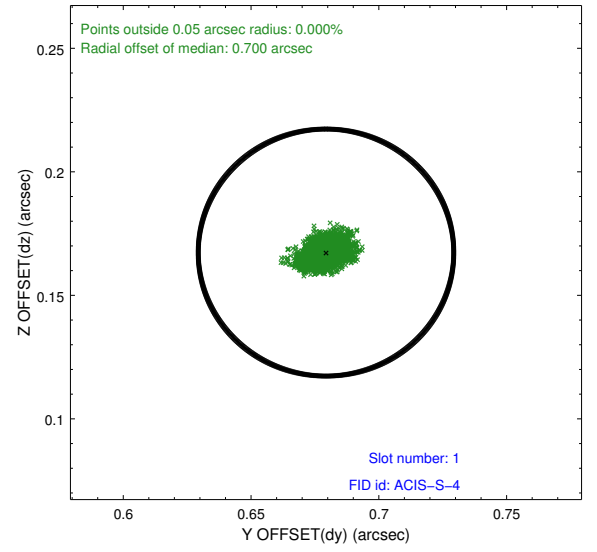
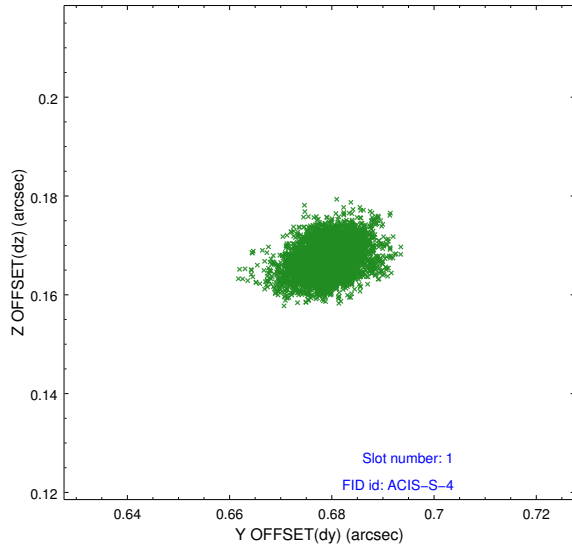


2.5 FID Slots

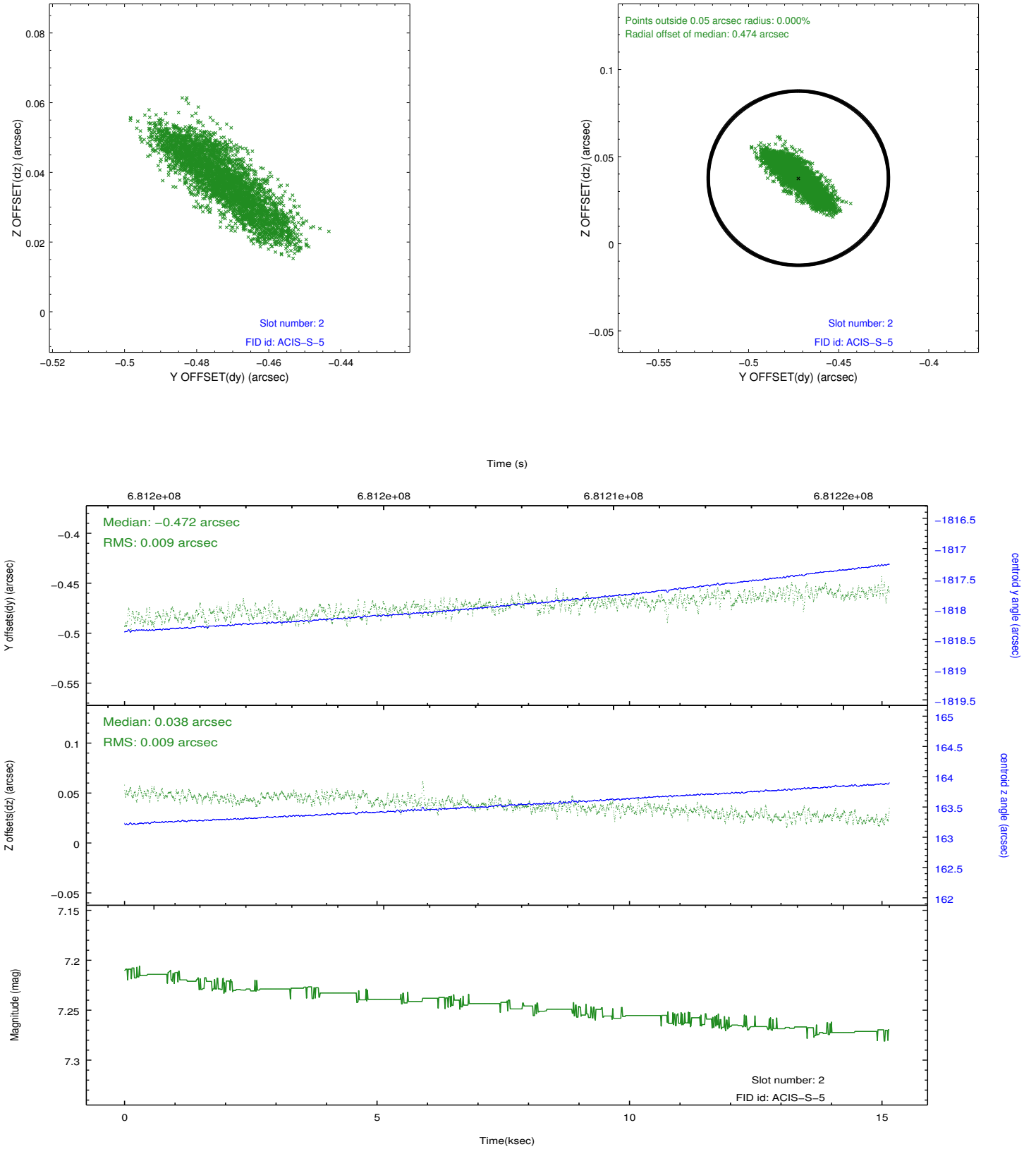
2.5.1 Slot 0



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)	2019.08.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.062900115967

A.2 Comments

One optional chip was dropped.