

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 20145 - L2 Version 1
Chandra X-Ray Center

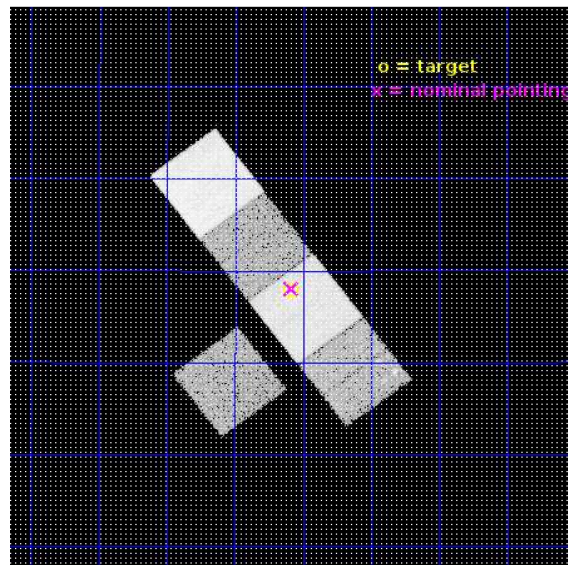
L2 Processing Date : Feb 17 2019

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1 Front

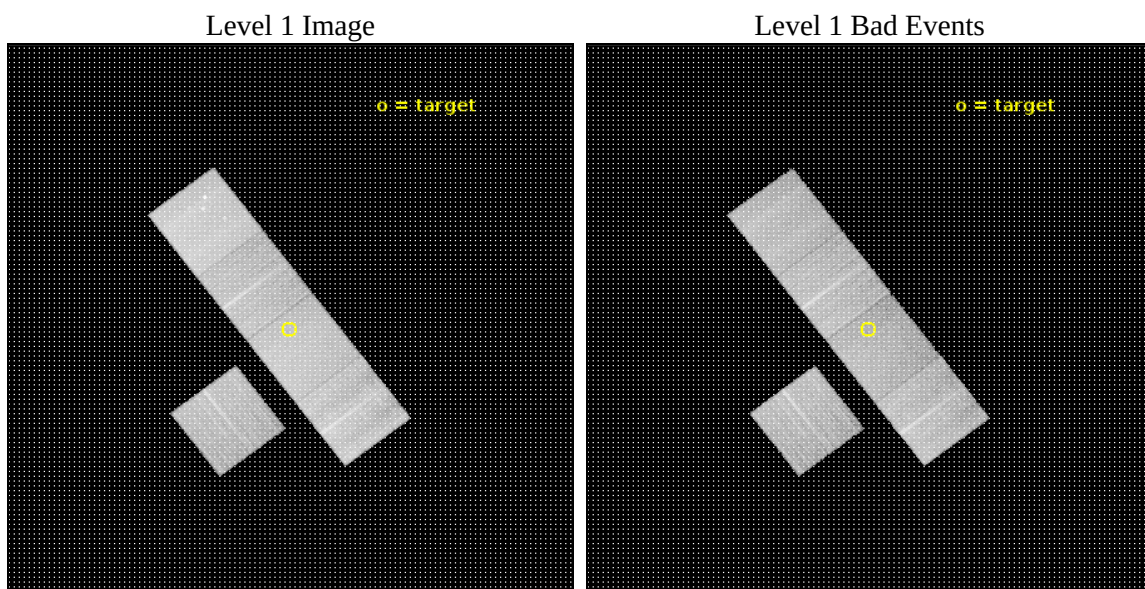
seq_num	201167	Sequence number
obs_id	20145	Observation id
title	Catching an FUor in the Act: Chandra ToO Observations of Extreme Accretion onto Young S	Proposal title
observer	David Pooley	Principal investigator
object	Gaia17bpi	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	292.773292	Observer's specified target RA [deg]
dec_targ	18.464519	Observer's specified target Dec [deg]
ra_nom	292.7713181433	Nominal RA [deg]
dec_nom	18.467275377745	Nominal Dec [deg]
roll_nom	52.92268969441	Nominal Roll [deg]
revision	1	Processing version of data
ontime	17551.059878707	Sum of GTIs [s]
livetime	17321.742360489	Livetime [s]
ontime3	17547.795698524	Sum of GTIs [s]
ontime5	17551.018838763	Sum of GTIs [s]
ontime6	17547.836818457	Sum of GTIs [s]
ontime7	17551.059878707	Sum of GTIs [s]
ontime8	17550.895718694	Sum of GTIs [s]
l2events	212074	Number of level 2 events



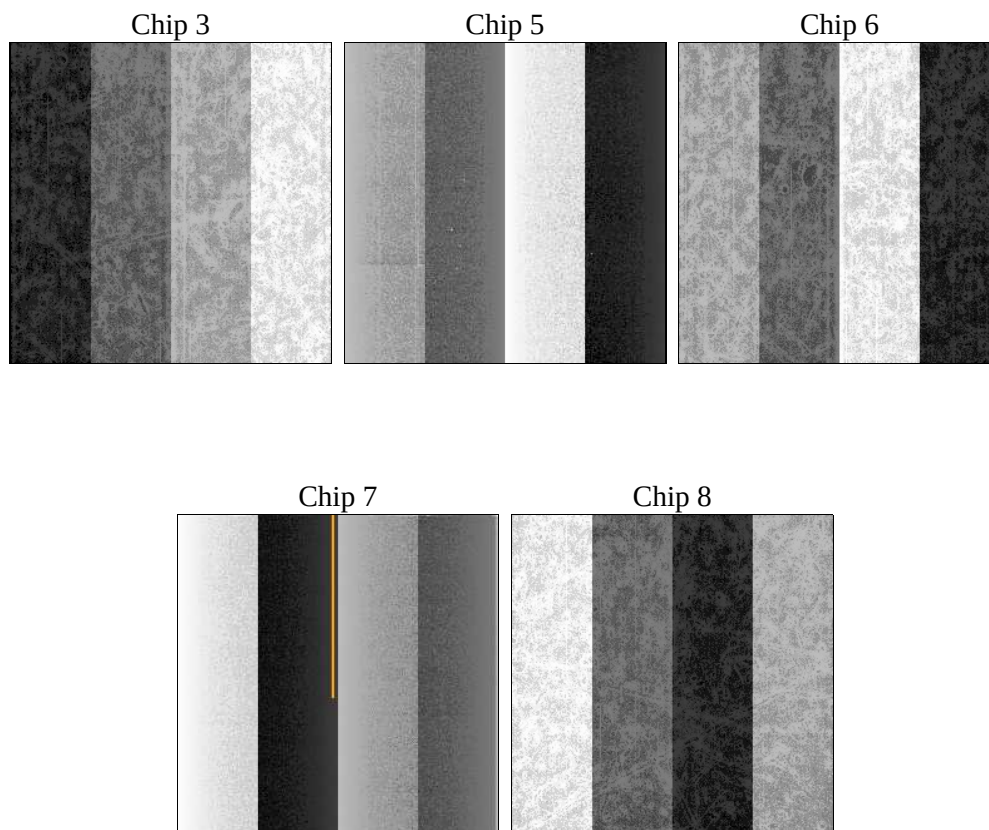
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	17500.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	17551.059878707	Sum of GTIs [s]
caldsver	4.8.2	 	ontime3	17547.795698524	Sum of GTIs [s]
date	2019-02-17T14:59:46	Date and time of file creation	ontime5	17551.018838763	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	17547.836818457	Sum of GTIs [s]
			ontime7	17551.059878707	Sum of GTIs [s]
			ontime8	17550.895718694	Sum of GTIs [s]
			l1events	844485	Number of level 1 events

2.1.4 Events

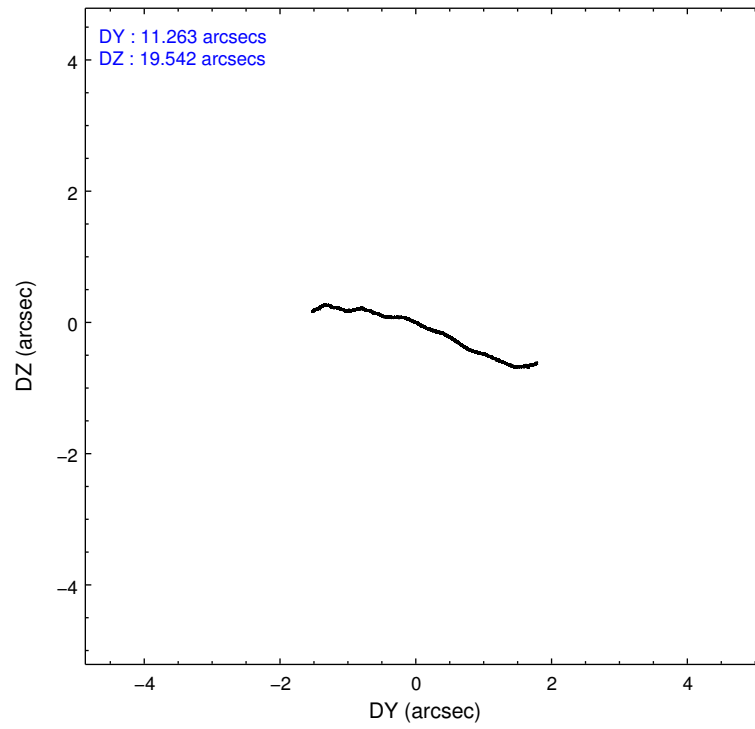
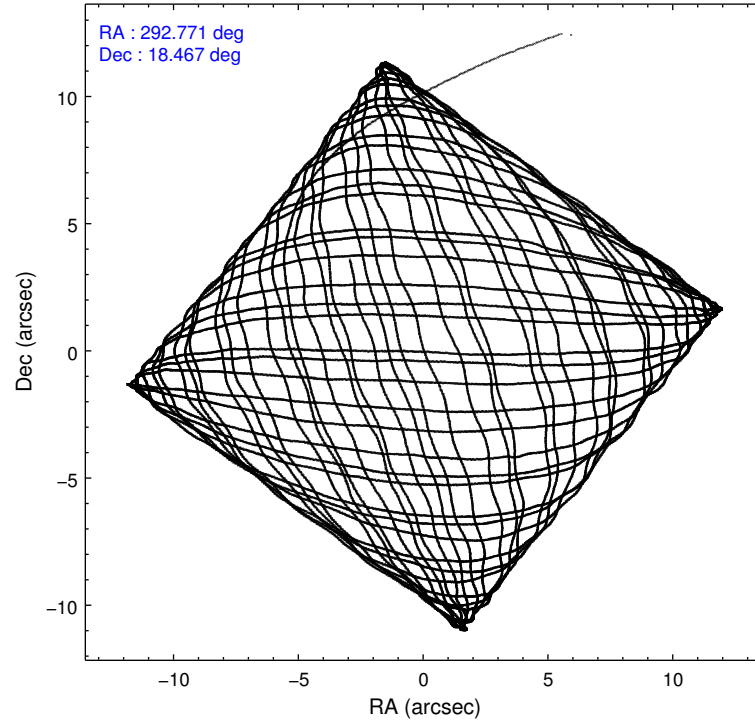
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	133001	214223	146761	172435	178065
rejected events	119208	112444	131336	98088	130938
rejected %	89%	52%	89%	56%	73%

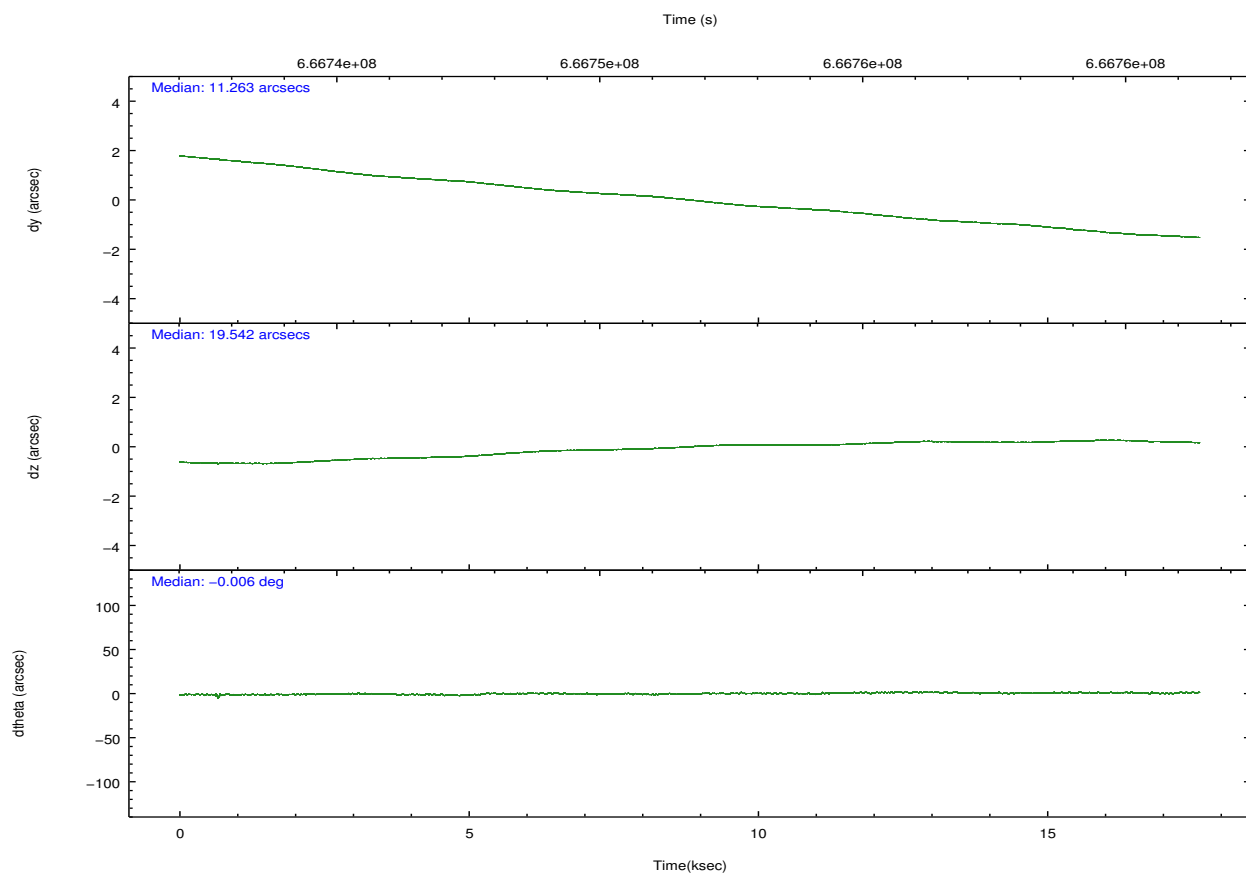
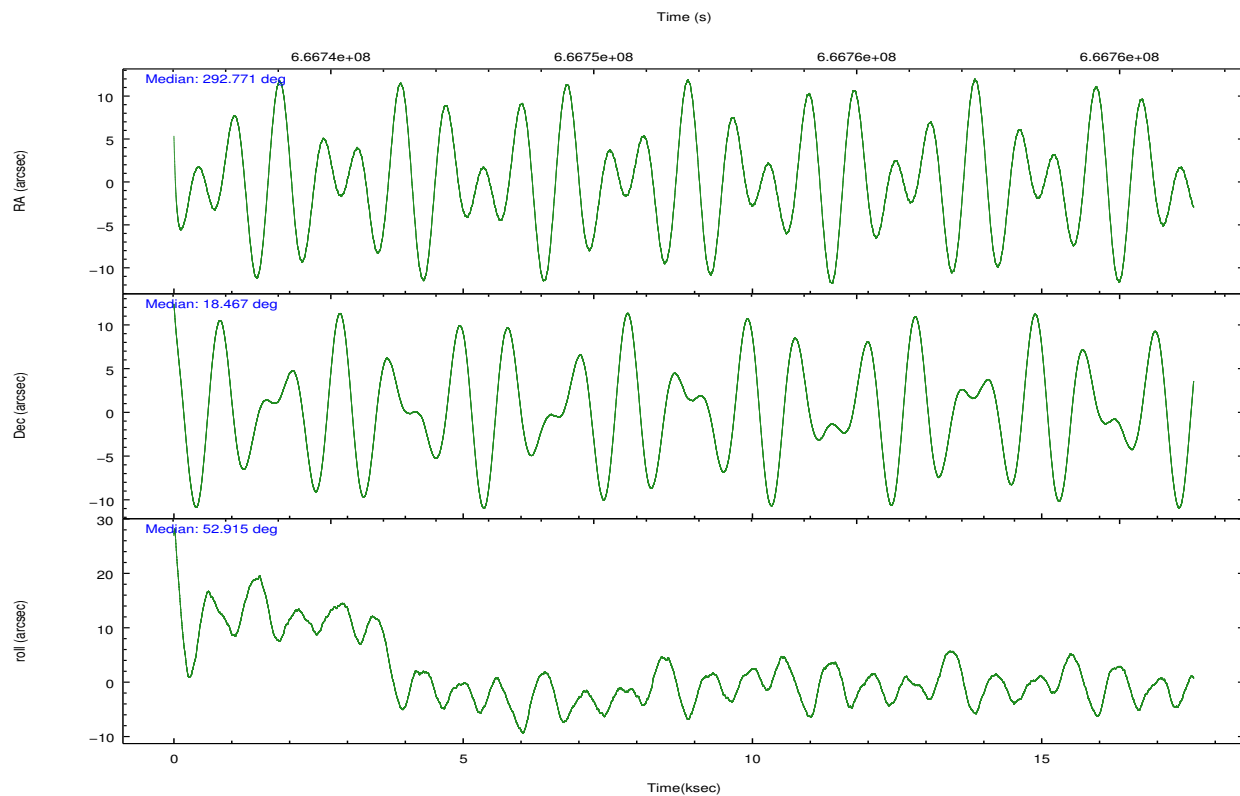
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	5076	7441	4813	6139	14147
	3%	3%	3%	3%	7%
grade 1 events	72	710	48	296	141
	0%	0%	0%	0%	0%
grade 2 events	2959	31844	4011	15691	11136
	2%	14%	2%	9%	6%
grade 3 events	1408	2995	1335	5747	4846
	1%	1%	0%	3%	2%
grade 4 events	1405	2872	1349	5662	4433
	1%	1%	0%	3%	2%
grade 5 events	5768	13934	5774	16530	9092
	4%	6%	3%	9%	5%
grade 6 events	2947	56647	3918	41125	12570
	2%	26%	2%	23%	7%
grade 7 events	113366	97780	125513	81245	121700
	85%	45%	85%	47%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	292.768147	292.7713181432962	CCD I2 on	O1	N
[deg] Pointing Dec	18.440025	18.46727537774468	CCD I3 on	O2	Y
[deg] Pointing Roll	52.767059	52.92268969441042	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	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	O4	Y
[s] Observation start time (MET)	666743055.184000	666741655.85425	CCD S5 on	N	N
Observation start date	2019-02-16T22:23:06	2019-02-16T22:00:55	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	666760555.184000	666761478.84293	On-chip summing requested	N	N
Observation end date	2019-02-17T03:14:46	2019-02-17T03:31:18	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



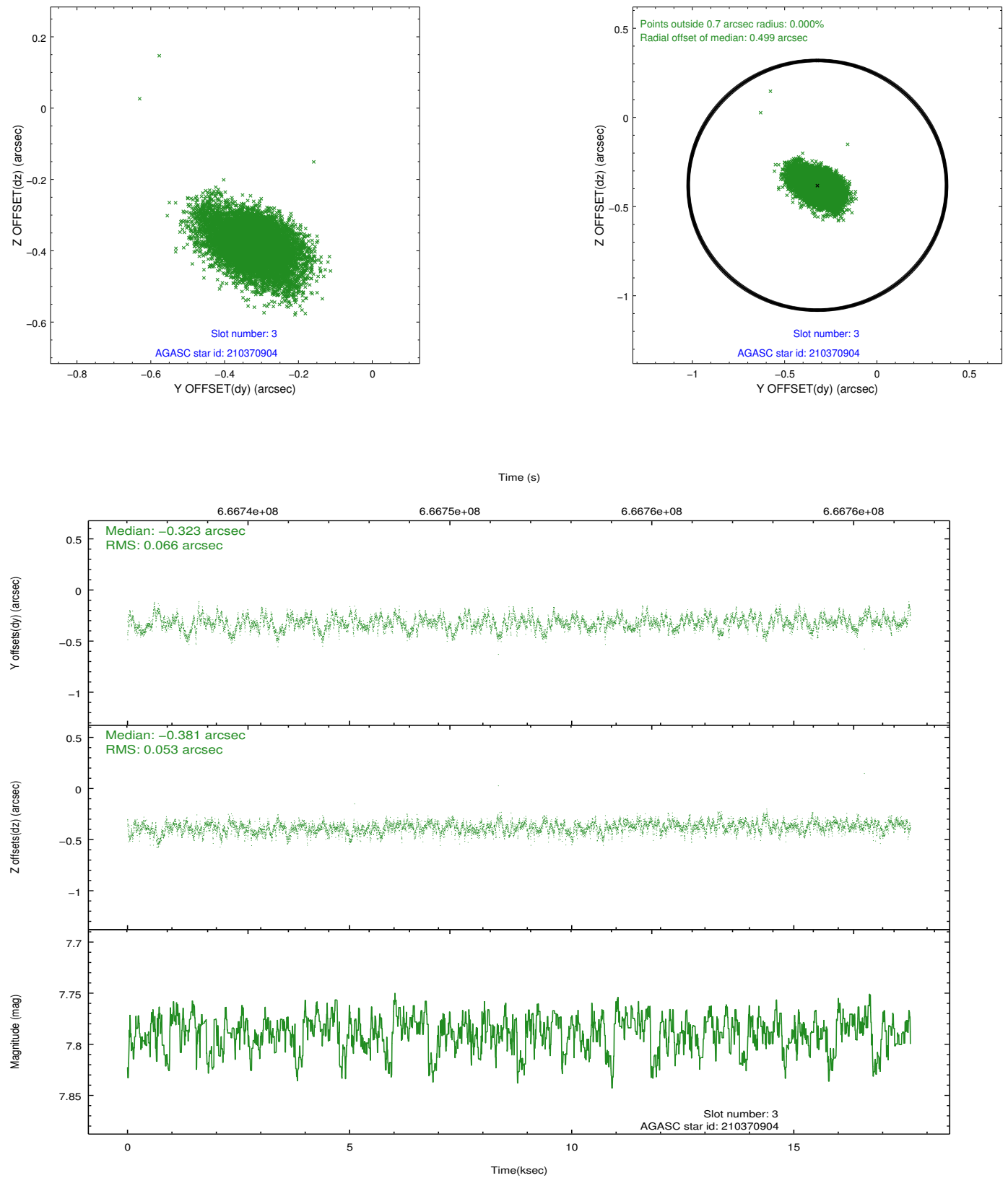


Slot Statistics

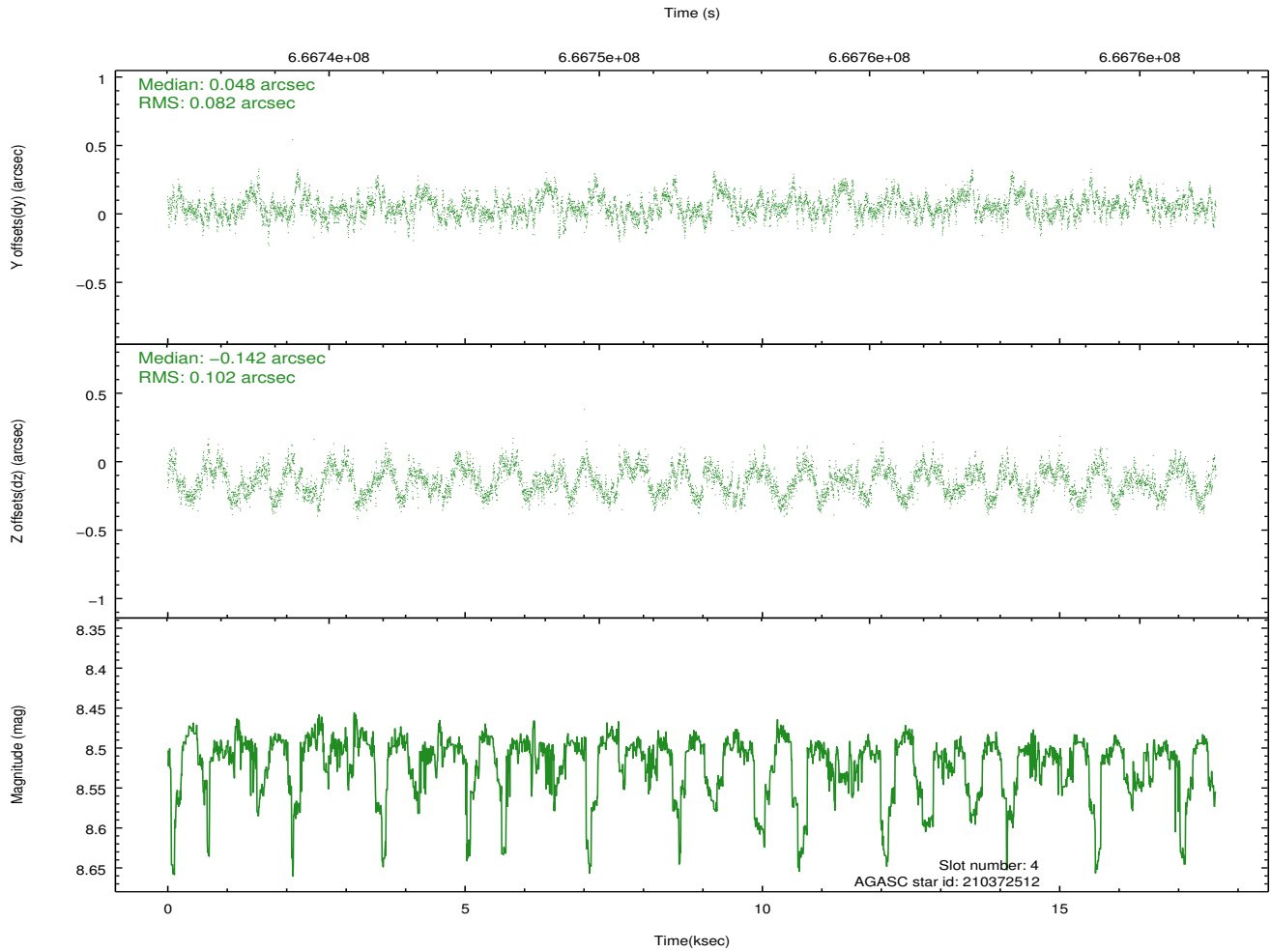
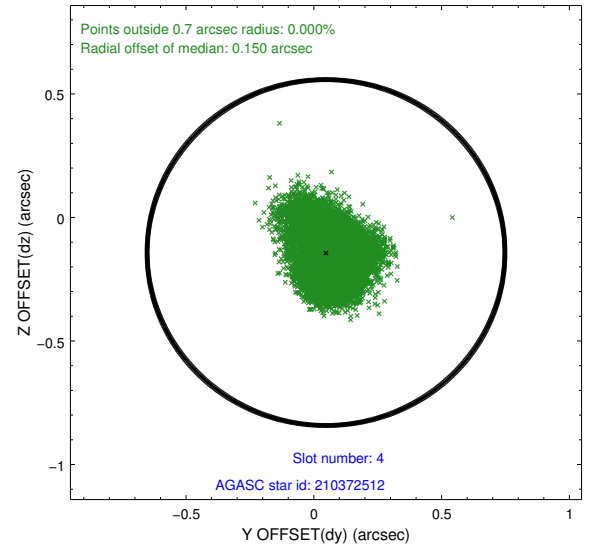
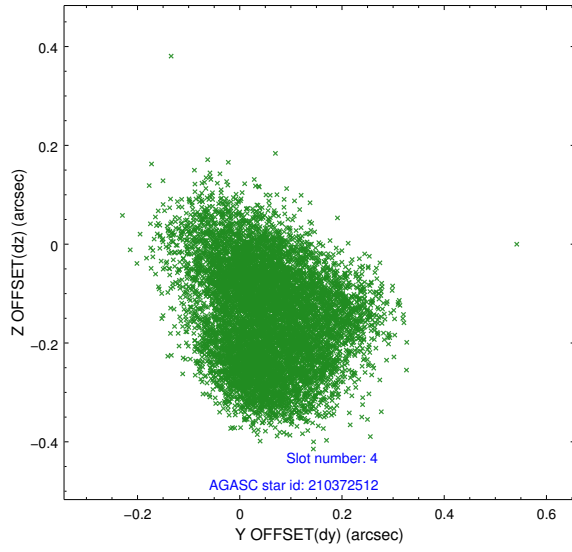
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.06	4300	1.000	-0.298	-0.130	0.034	0.061	0.000000	0.000000	-764.37	-1741
1	FID		ACIS-S-4	7.18	4300	1.000	0.686	0.179	0.024	0.045	0.000000	0.000000	2149.70	167
2	FID		ACIS-S-5	7.16	4300	1.000	-0.417	-0.041	0.048	0.089	0.000000	0.000000	-1817.12	161
3	GUIDE	used	210370904	7.79	8596	1.000	-0.323	-0.381	0.087	0.156	292.563039	18.704932	335.69	1134
4	GUIDE	used	210372512	8.51	8595	1.000	0.048	-0.142	0.142	0.215	292.201979	18.486300	-1034.36	1641
5	GUIDE	used	210373136	7.96	8598	1.000	0.360	0.336	0.111	0.189	292.893985	17.958185	-1119.16	-1392
6	GUIDE	used	210375784	7.14	8600	1.000	-0.008	0.275	0.123	0.193	292.707024	18.250669	-668.86	-245
7	GUIDE	used	210376496	8.65	8591	1.000	-0.079	-0.075	0.115	0.193	293.385337	18.705566	2037.81	-1094

2.4 Star Slots

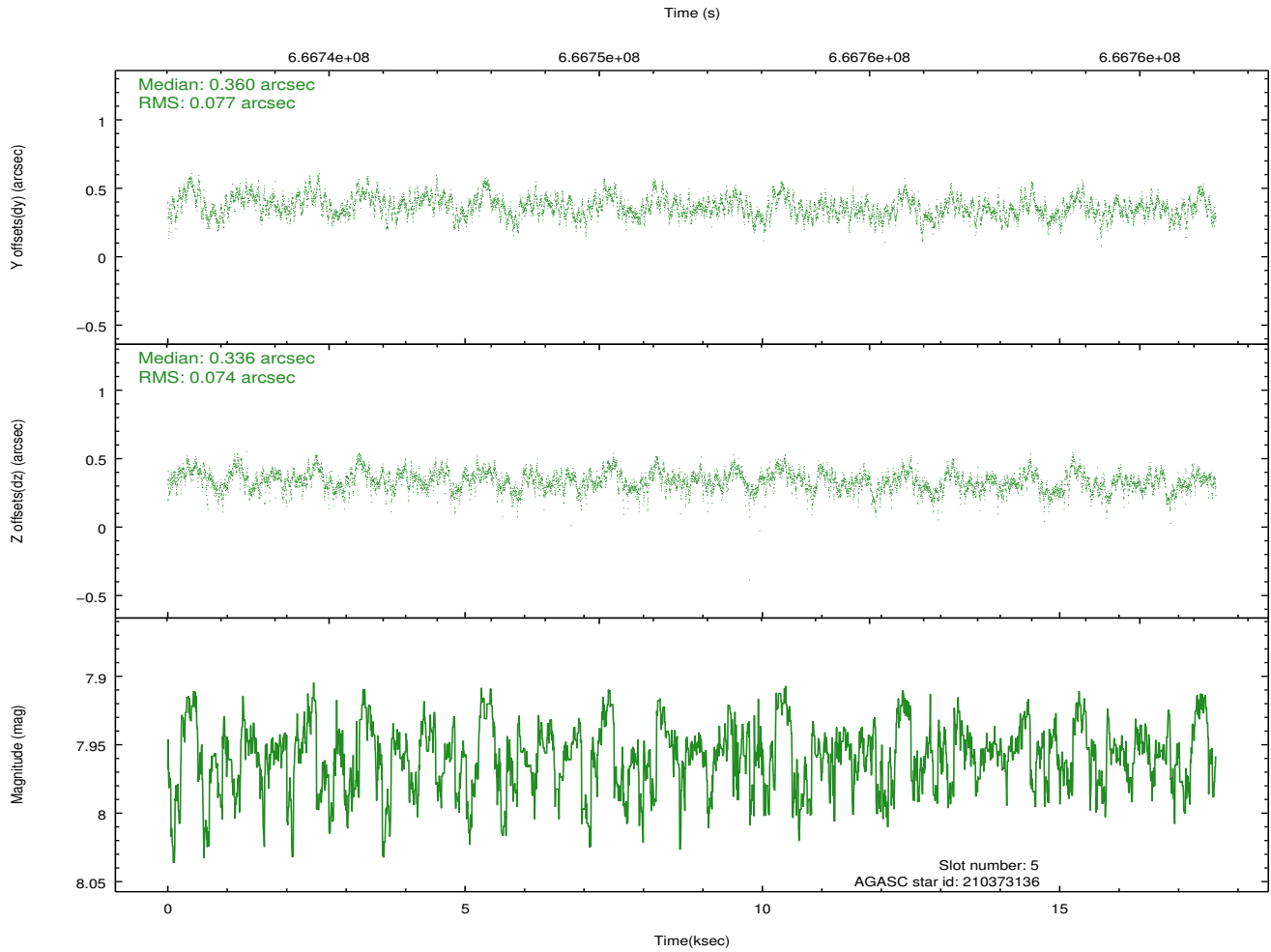
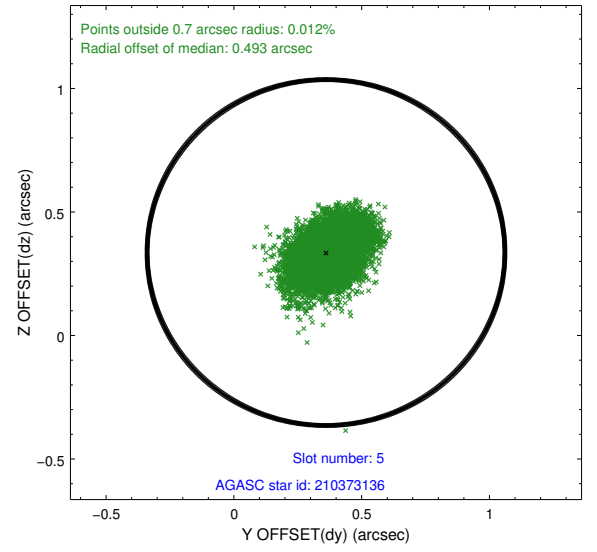
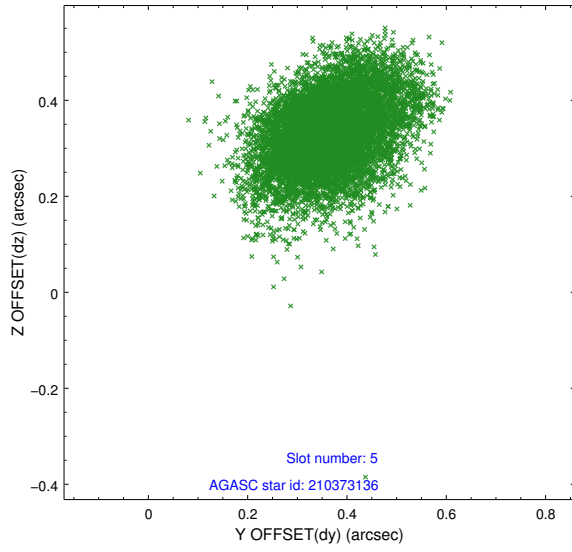
2.4.1 Slot 3



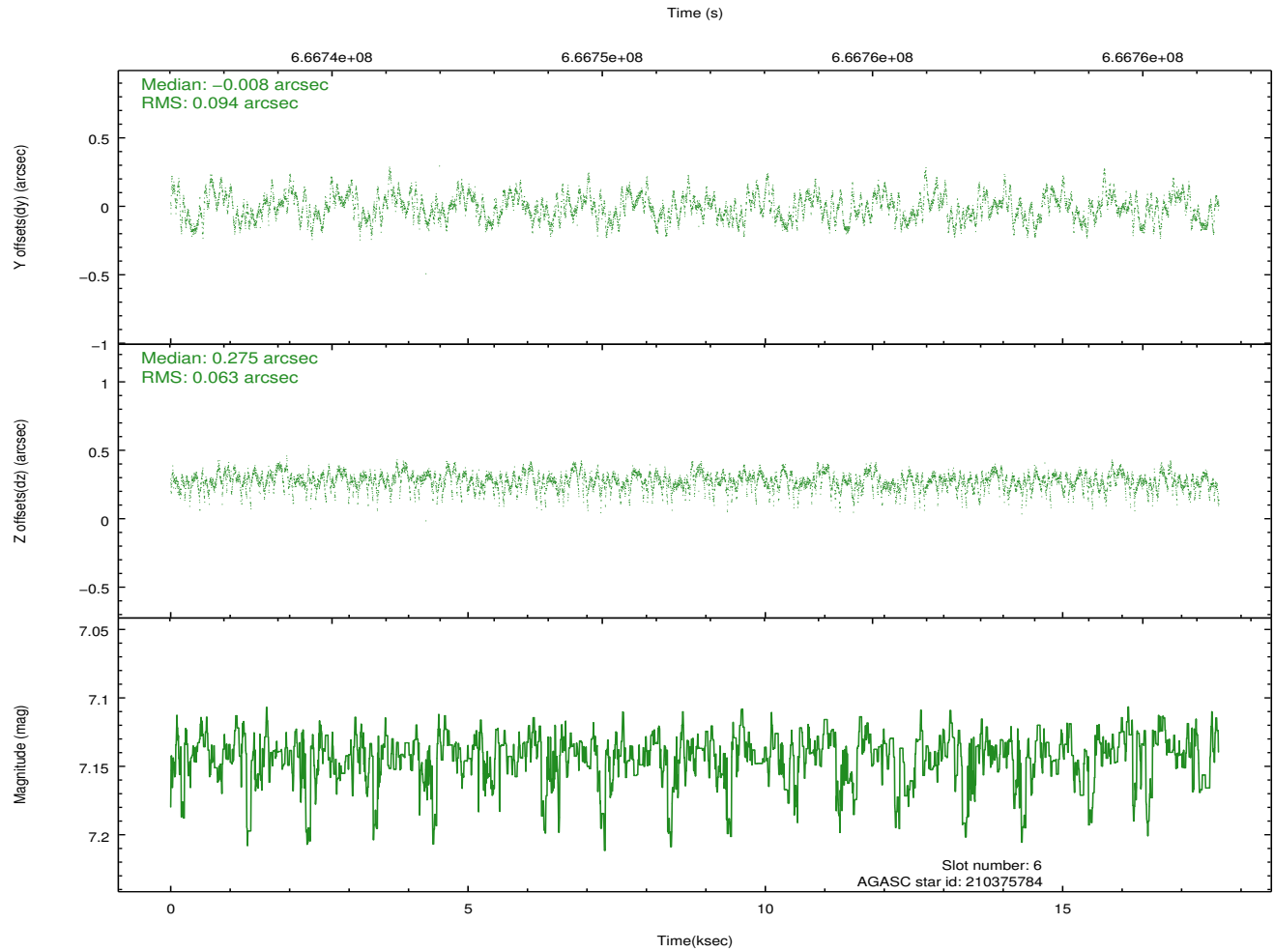
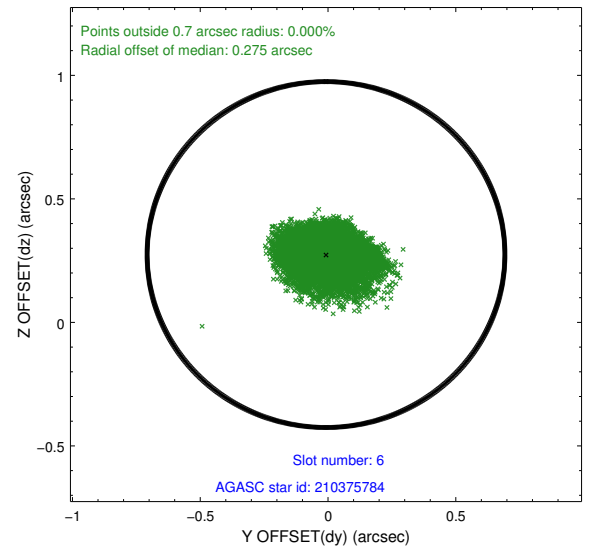
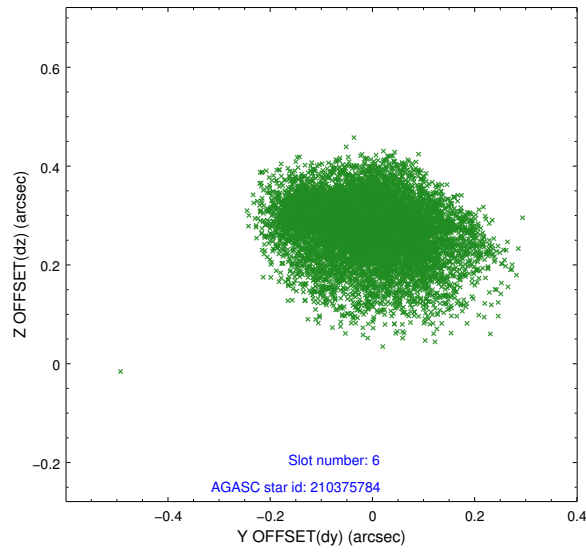
2.4.2 Slot 4



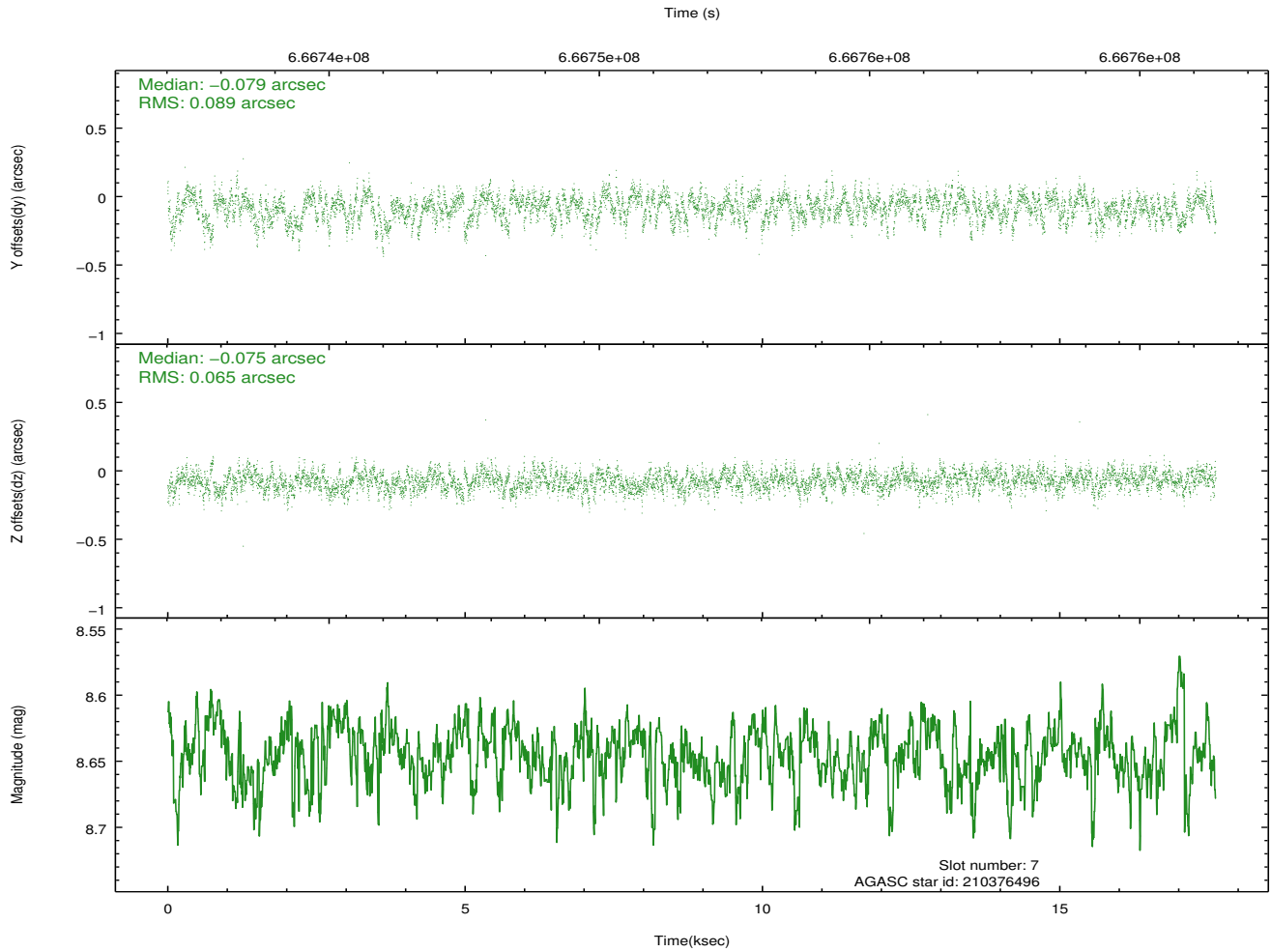
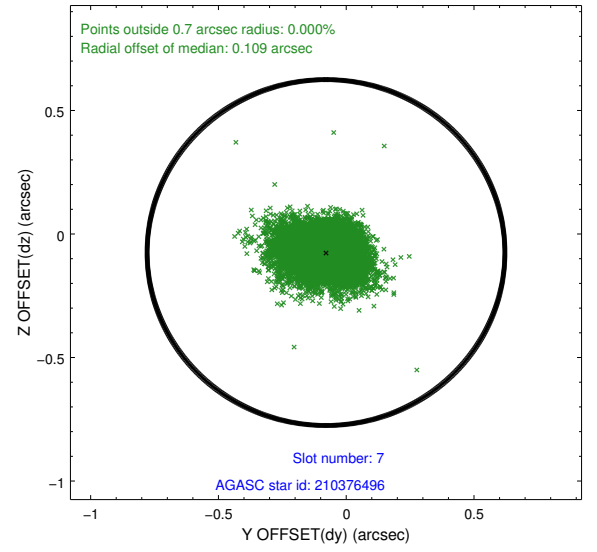
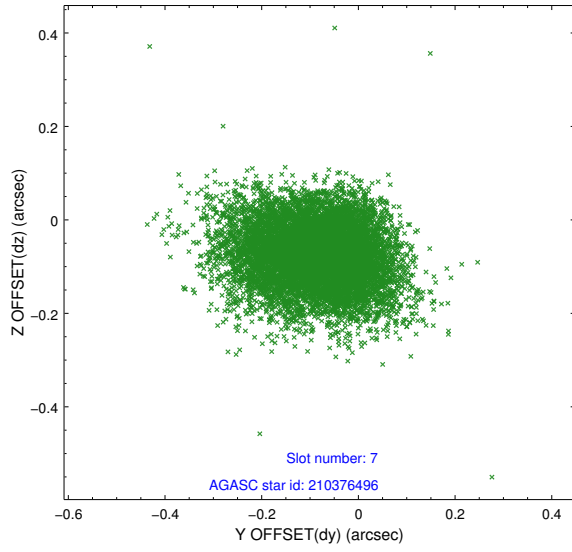
2.4.3 Slot 5



2.4.4 Slot 6

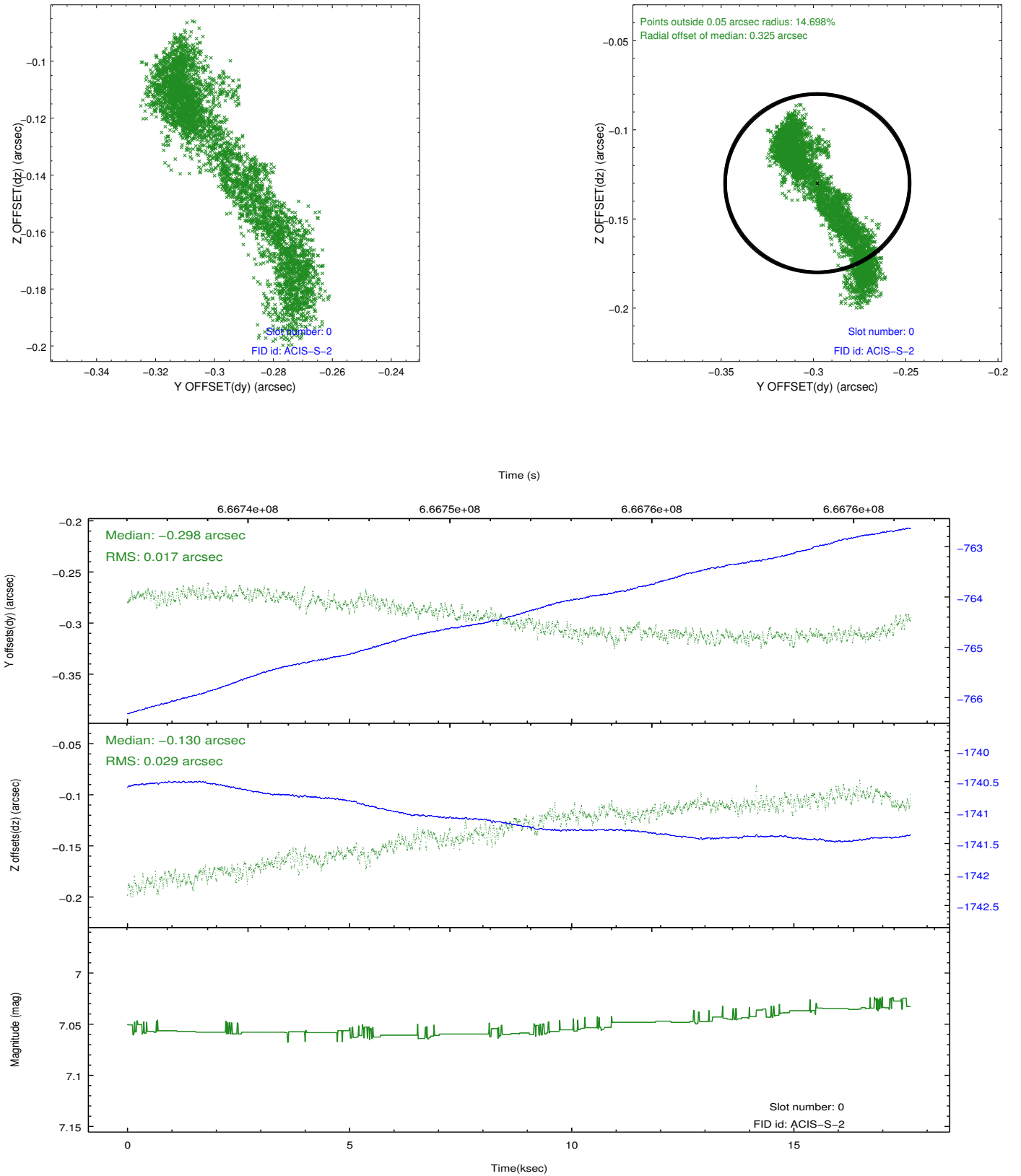


2.4.5 Slot 7

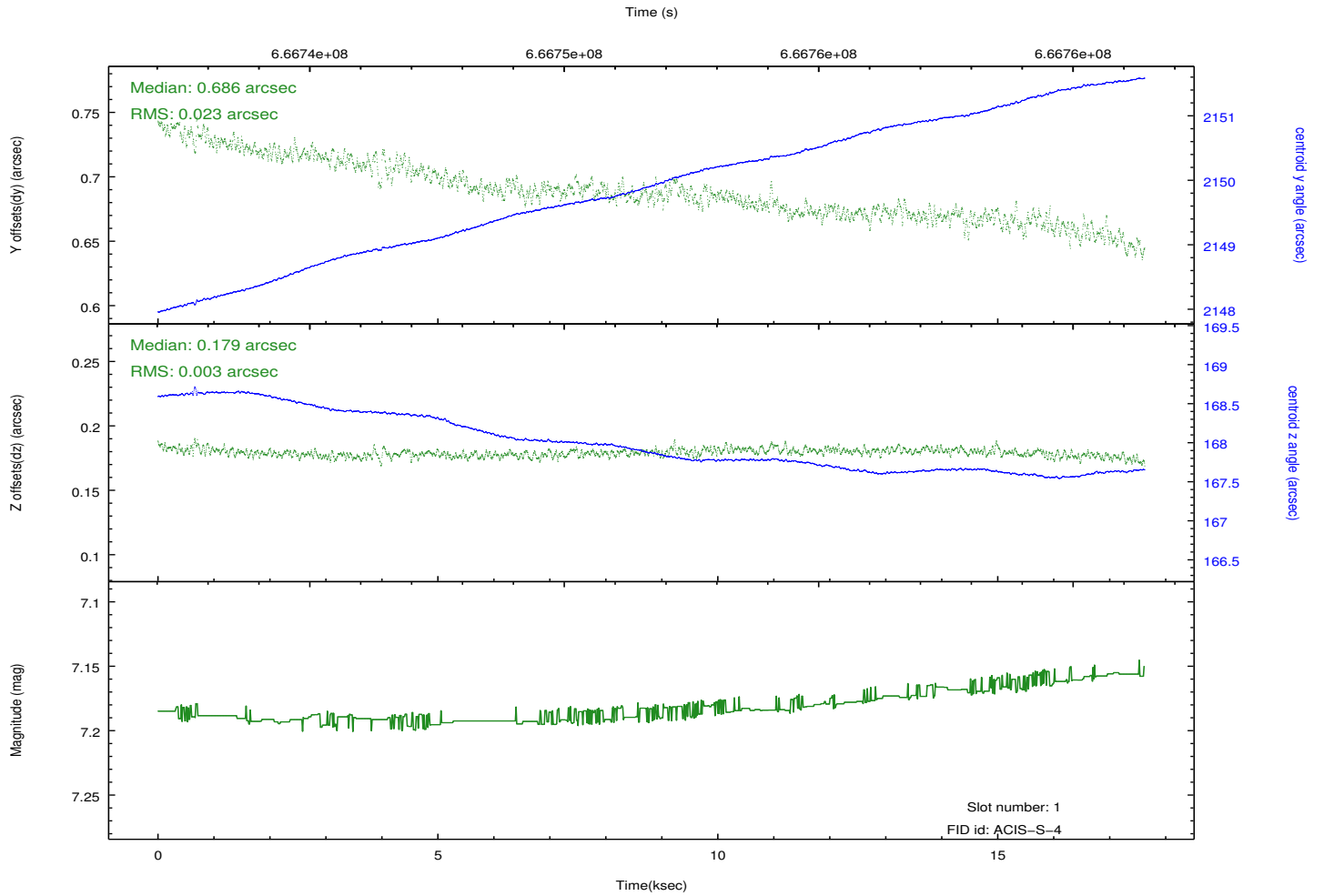
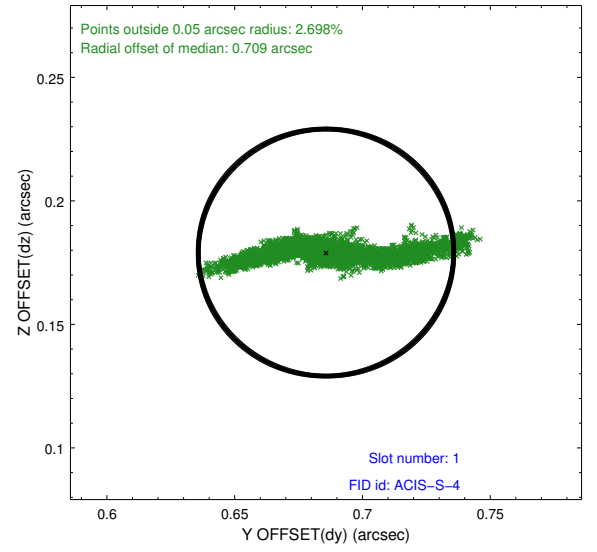
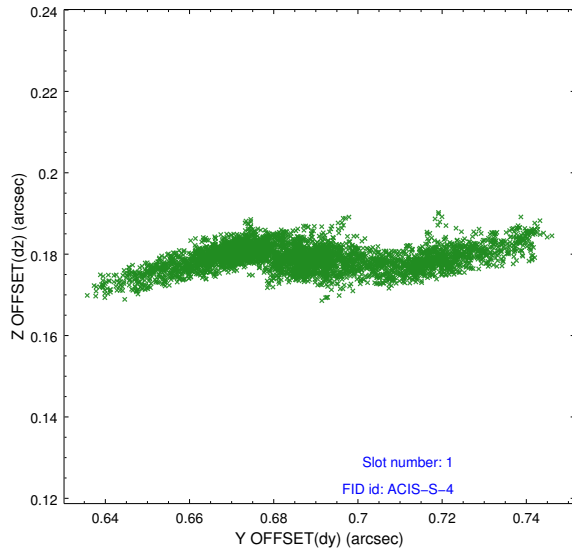


2.5 FID Slots

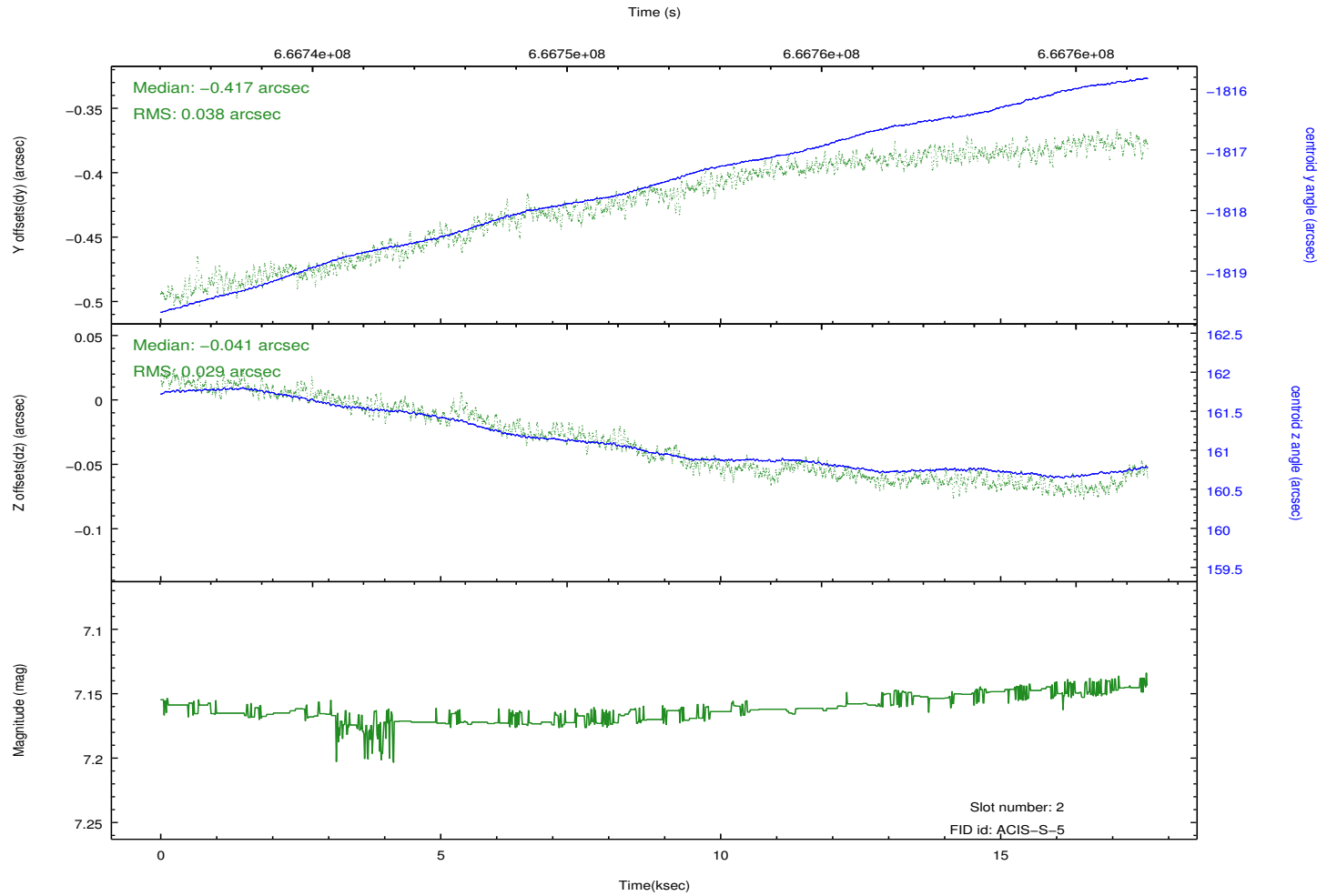
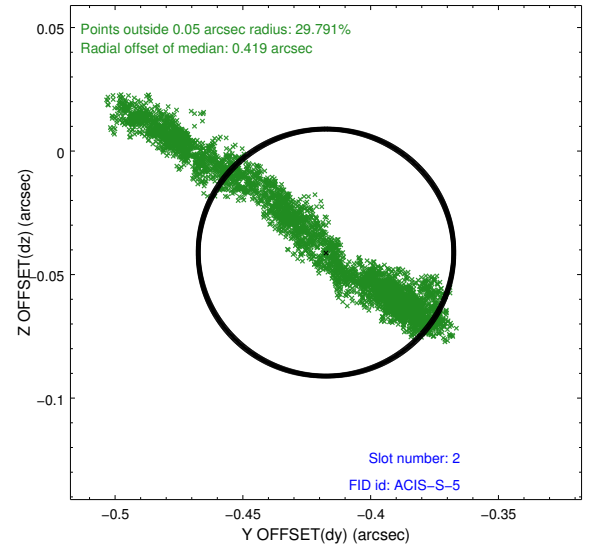
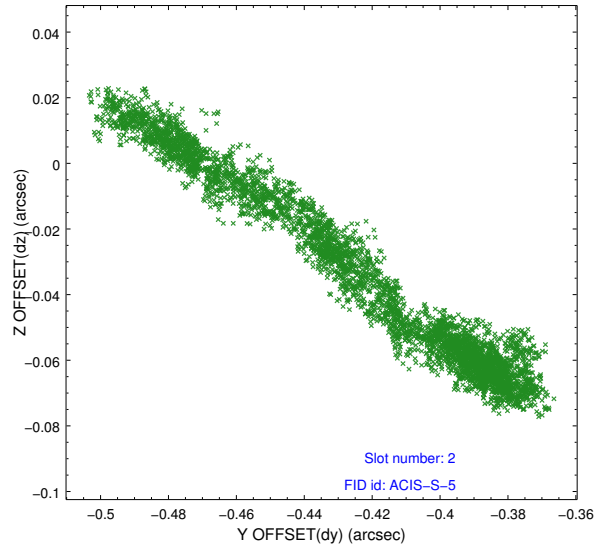
2.5.1 Slot 0



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)	2019.02.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	17.551059878707

A.2 Comments

One optional chip was dropped.