

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19869 - L2 Version 2
Chandra X-Ray Center

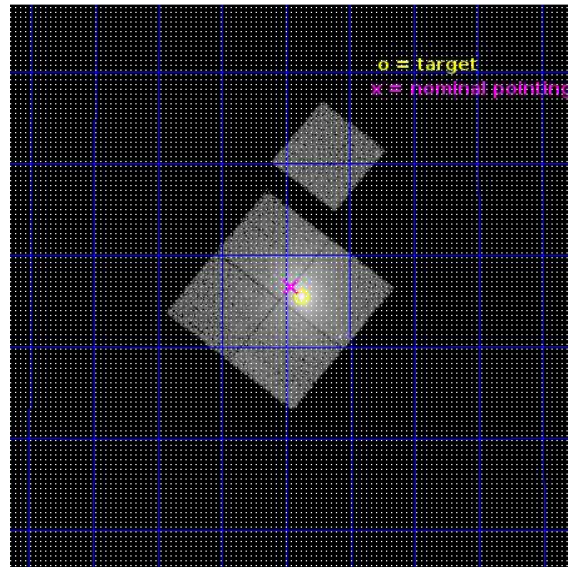
L2 Processing Date : Dec 5 2016

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1 Front

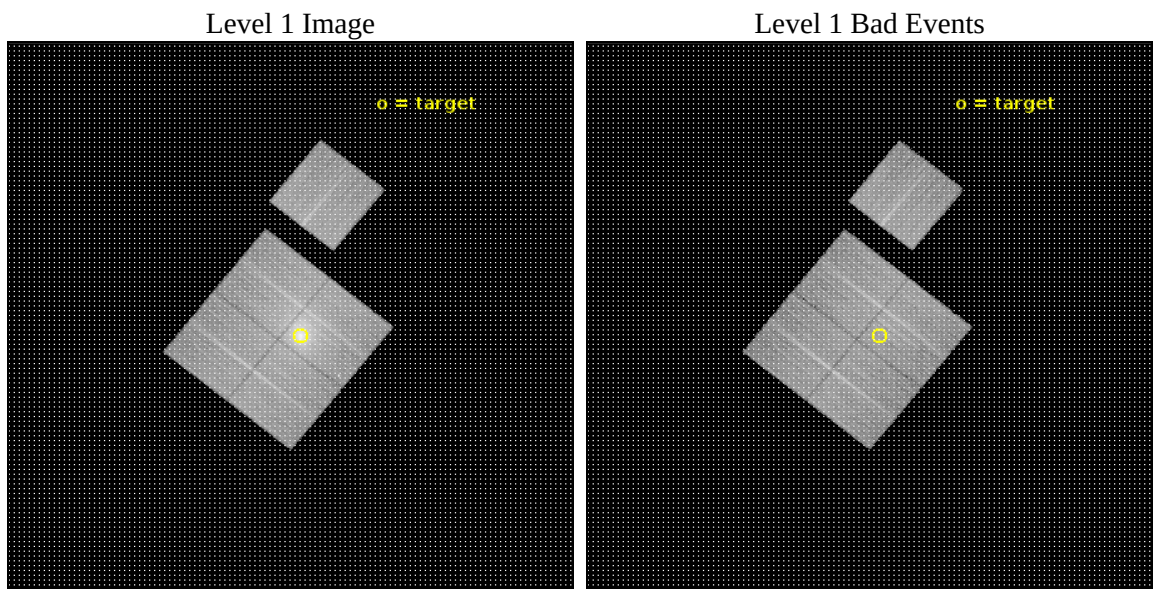
seq_num	890134	Sequence number
obs_id	19869	Observation id
title	AO-18 Calibration Observations of A1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.23982651163	Nominal RA [deg]
dec_nom	26.609618736739	Nominal Dec [deg]
roll_nom	38.652030317971	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20562.259188056	Sum of GTIs [s]
livetime	20293.598134049	Livetime [s]
ontime0	20565.400158286	Sum of GTIs [s]
ontime1	20565.400158286	Sum of GTIs [s]
ontime2	20565.400158286	Sum of GTIs [s]
ontime3	20562.259188056	Sum of GTIs [s]
ontime6	20565.400158286	Sum of GTIs [s]
l2events	197447	Number of level 2 events



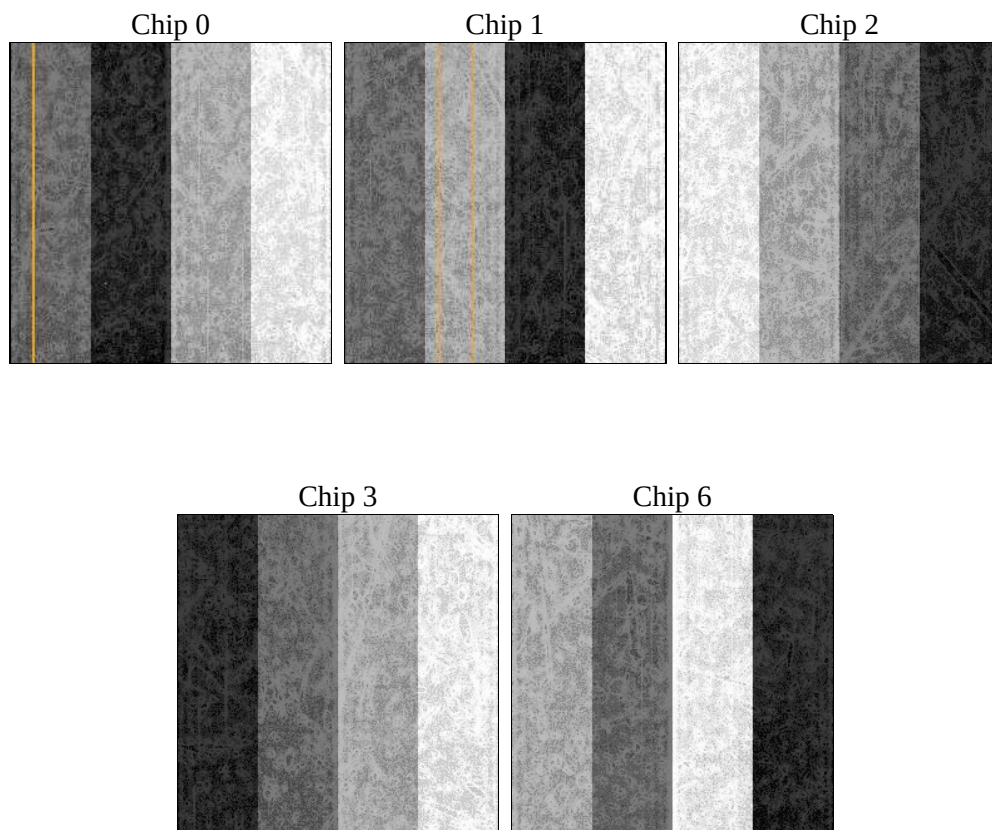
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20529.666000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	20562.259188056	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	20565.400158286	Sum of GTIs [s]
date	2016-12-05T23:12:06	Date and time of file creation	ontime1	20565.400158286	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	20565.400158286	Sum of GTIs [s]
			ontime3	20562.259188056	Sum of GTIs [s]
			ontime6	20565.400158286	Sum of GTIs [s]
			l1events	798815	Number of level 1 events

2.1.4 Events

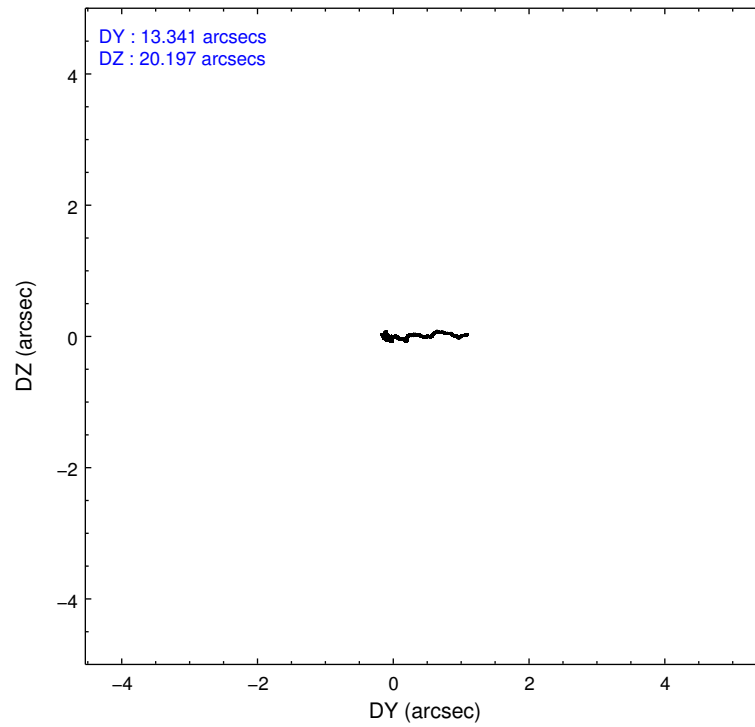
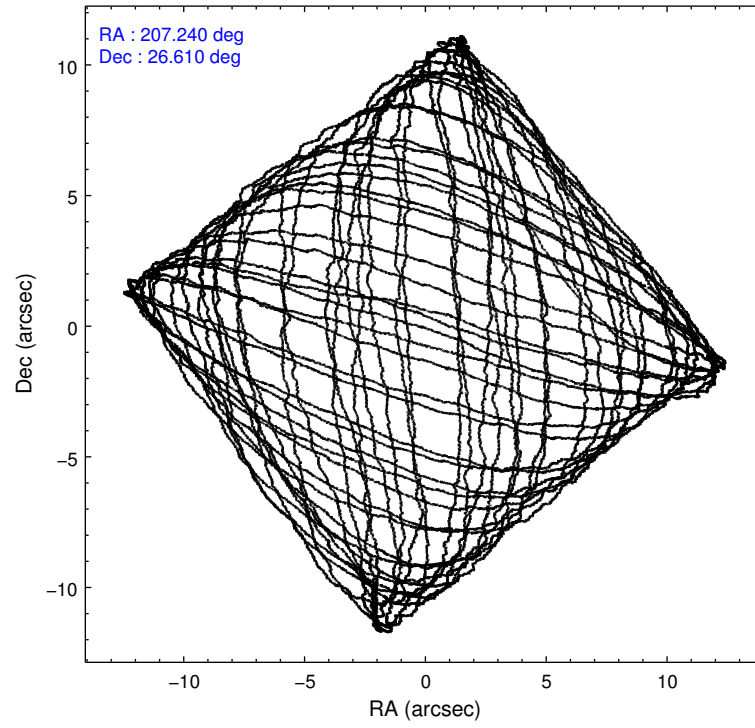
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	127004	141871	155896	237123	136921
rejected events	106686	111970	119777	125159	121201
rejected %	84%	78%	76%	52%	88%

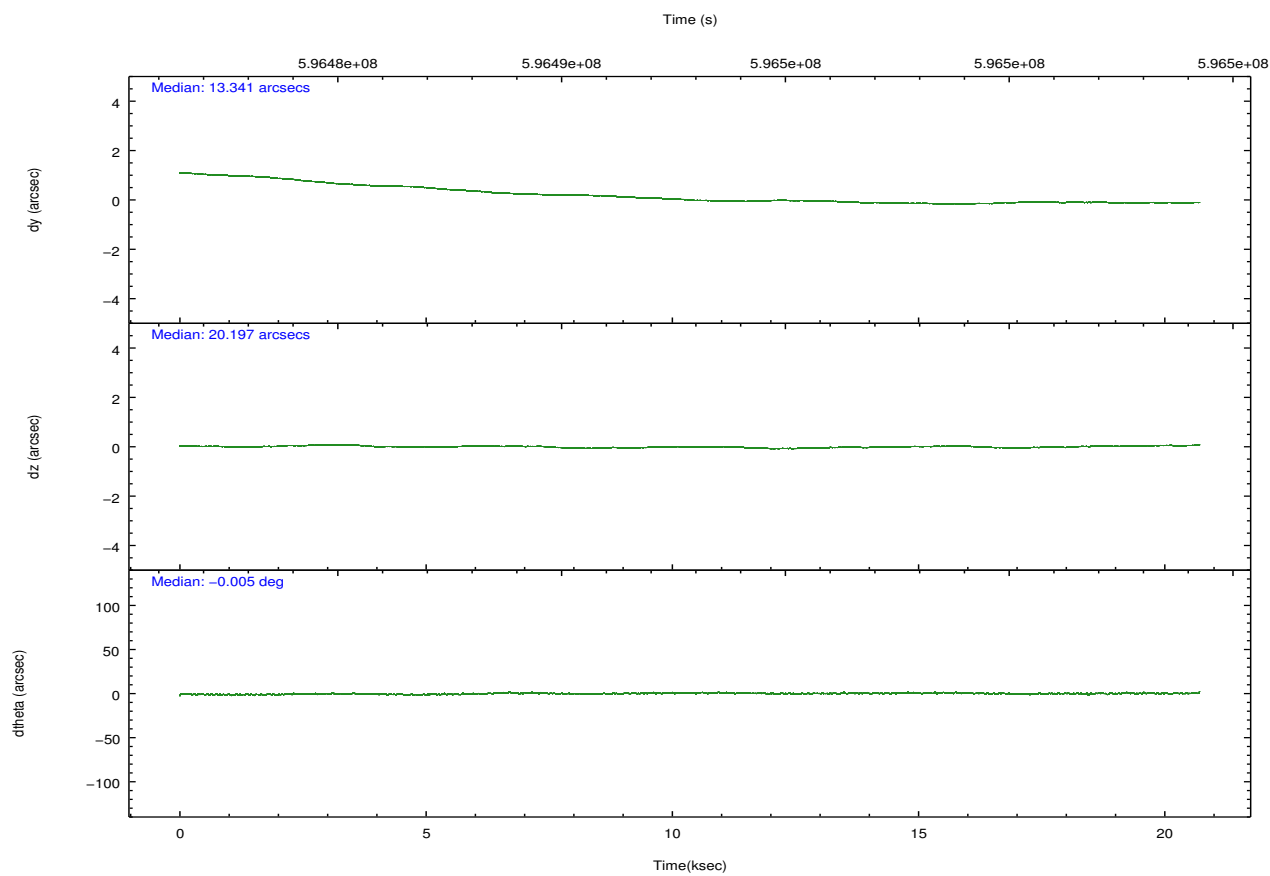
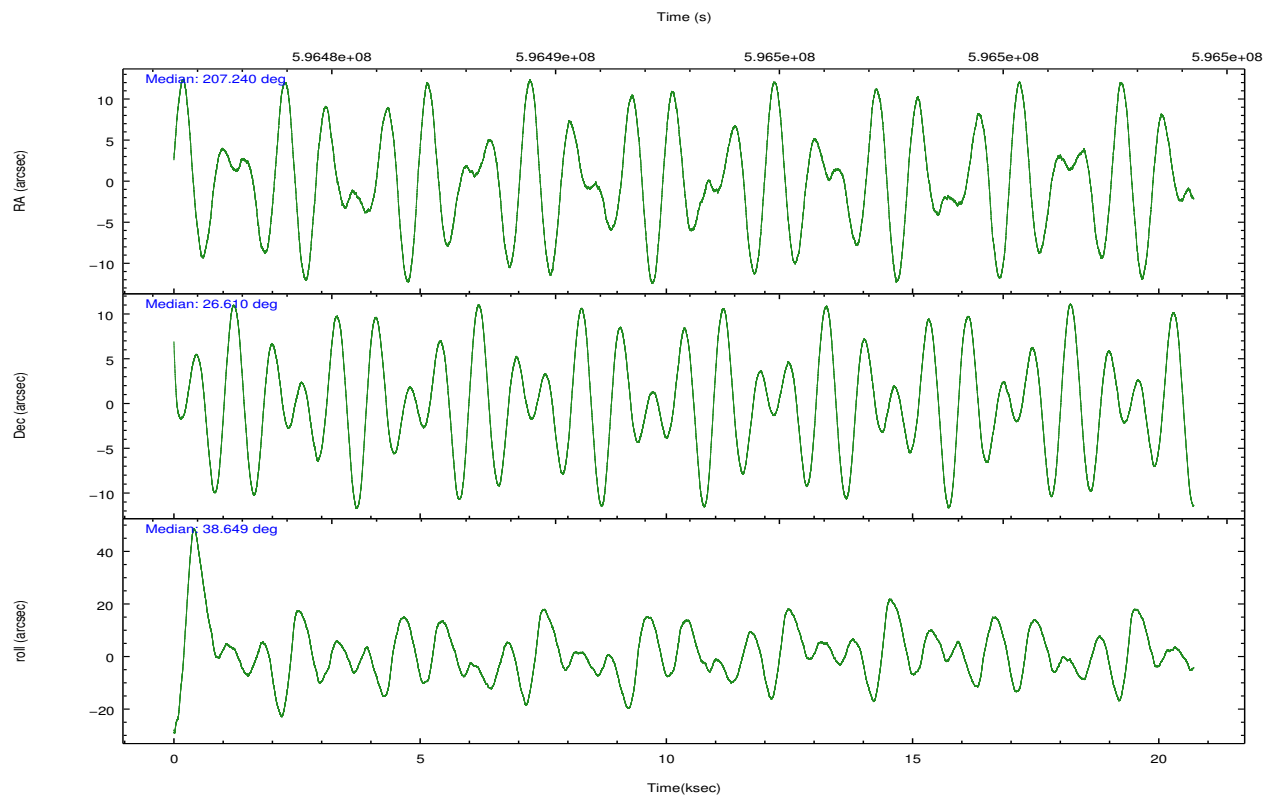
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9098	16014	22272	84068	5486
	7%	11%	14%	35%	4%
grade 1 events	92	125	176	514	64
	0%	0%	0%	0%	0%
grade 2 events	4356	5705	5884	13172	3665
	3%	4%	3%	5%	2%
grade 3 events	1801	2128	2145	4486	1562
	1%	1%	1%	1%	1%
grade 4 events	1641	2006	2184	4533	1453
	1%	1%	1%	1%	1%
grade 5 events	5919	6378	5705	7074	6406
	4%	4%	3%	2%	4%
grade 6 events	3425	4052	3641	5719	3554
	2%	2%	2%	2%	2%
grade 7 events	100672	105463	113889	117557	114731
	79%	74%	73%	49%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	207.228670	207.2398265116262	CCD I2 on	Y	Y
[deg] Pointing Dec	26.583865	26.60961873673928	CCD I3 on	Y	Y
[deg] Pointing Roll	38.448339	38.652030317971	CCD S0 on	N	N
[s] Window start time (MET)	595555268.184000	595555268.184000	CCD S1 on	N	N
[s] Window stop time (MET)	598147268.184000	598147268.184000	CCD S2 on	O1	Y
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S3 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S4 on	N	N
[mm] SIM translation stage pos	-230.252463	-230.248423740357	CCD S5 on	N	N
[mm] SIM translation stage offset	-3.34	-3.34402926257269	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	596482672.184000	596481249.80717	On-chip summing requested	N	N
Observation start date	2016-11-25T17:36:44	2016-11-25T17:14:09	Subarray requested	NONE	NONE
[s] Observation end time (MET)	596503202.184000	596503797.75848	Alternating exposures requested	N	N
Observation end date	2016-11-25T23:18:54	2016-11-25T23:29:57	[s] Primary exposure time	0.000000	3.1
Read mode	TIMED	TIMED			

2.3 Aspect



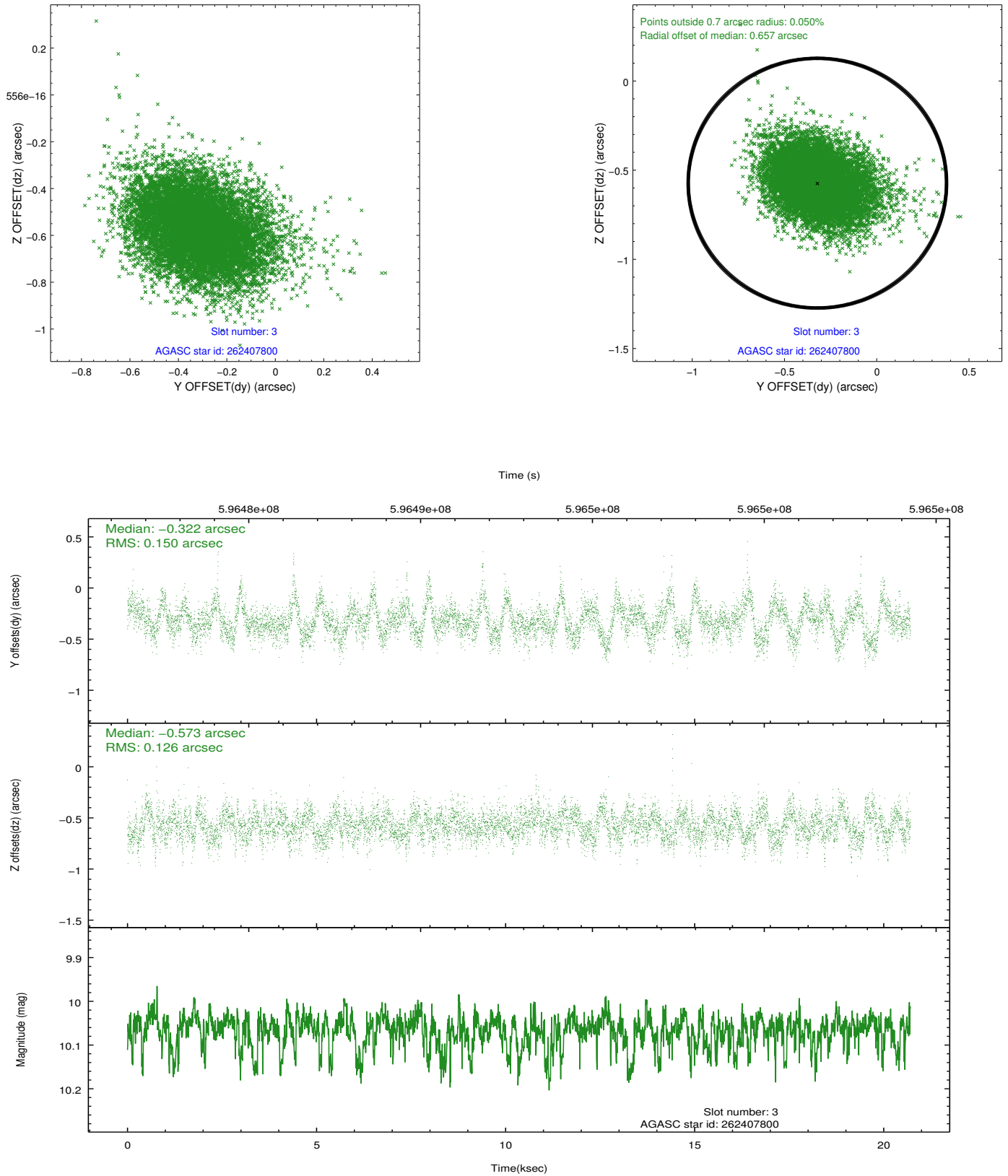


Slot Statistics

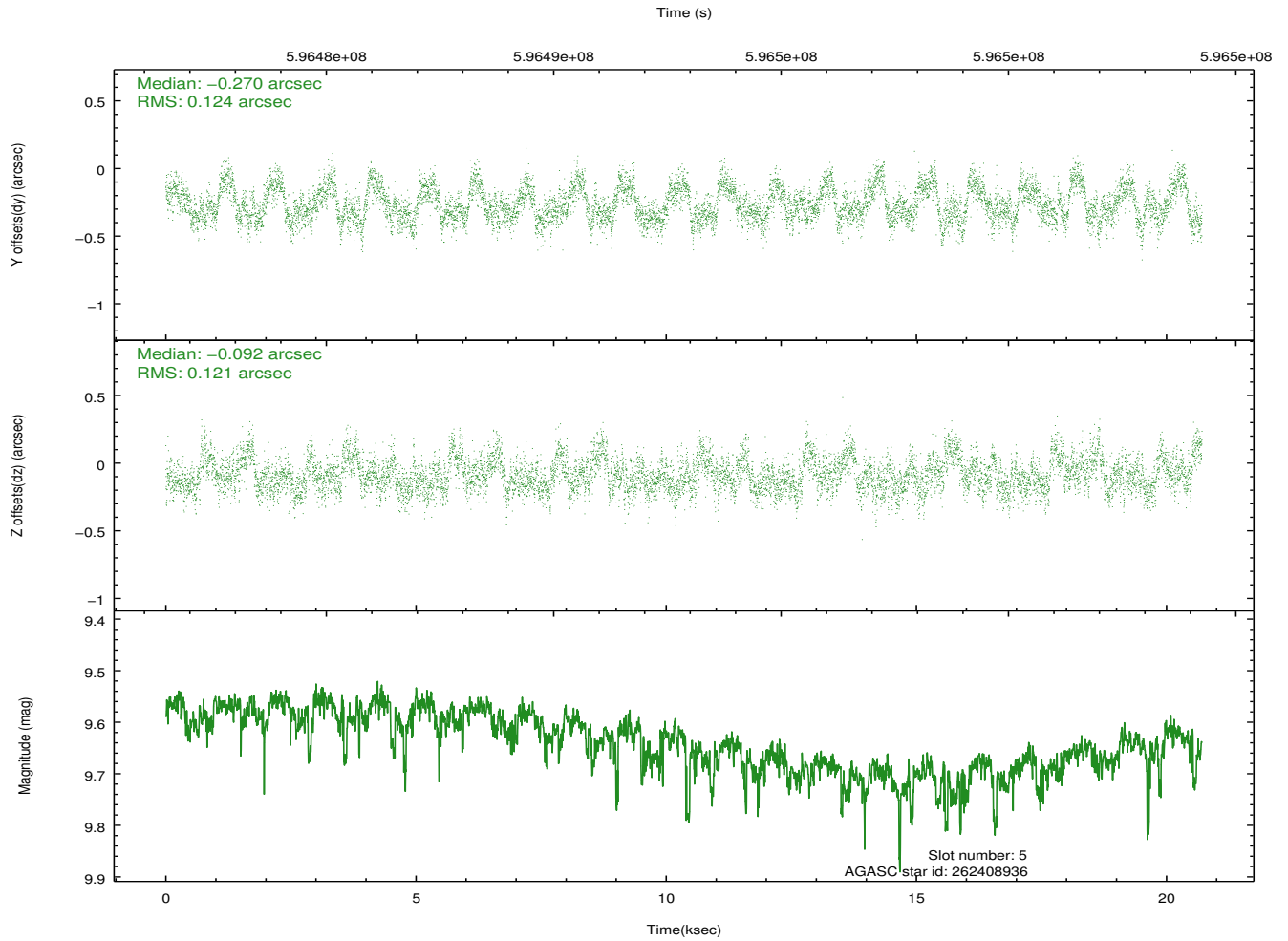
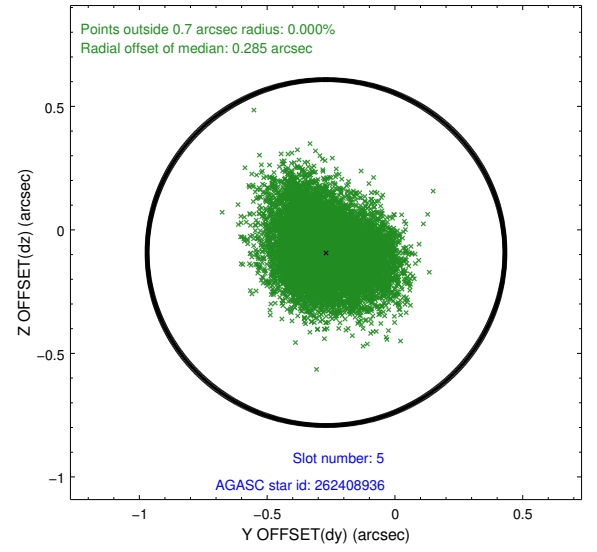
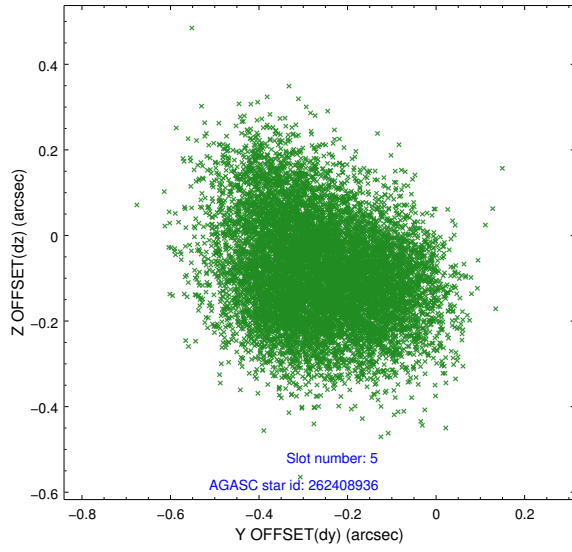
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.11	5051	0.069	-0.036	0.008	0.014	0.000000	0.000000	926.01	-912.51
1	FID		ACIS-I-5	7.10	5051	-0.321	0.040	0.010	0.017	0.000000	0.000000	-1822.49	984.80
2	FID		ACIS-I-6	7.11	5051	0.160	0.068	0.011	0.019	0.000000	0.000000	391.32	1629.65
3	GUIDE	used	262407800	10.07	10081	-0.322	-0.573	0.204	0.336	207.321181	27.251762	1724.18	1700.09
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	GUIDE	used	262408936	9.64	10092	-0.270	-0.092	0.186	0.289	207.154731	26.726554	133.56	549.89
6	GUIDE	used	262409624	10.10	10071	0.066	0.009	0.384	0.614	207.610037	27.074851	2058.01	625.79
7	GUIDE	used	262411960	9.65	10092	0.485	0.627	0.223	0.367	207.327895	25.881727	-1318.93	-2178.79

2.4 Star Slots

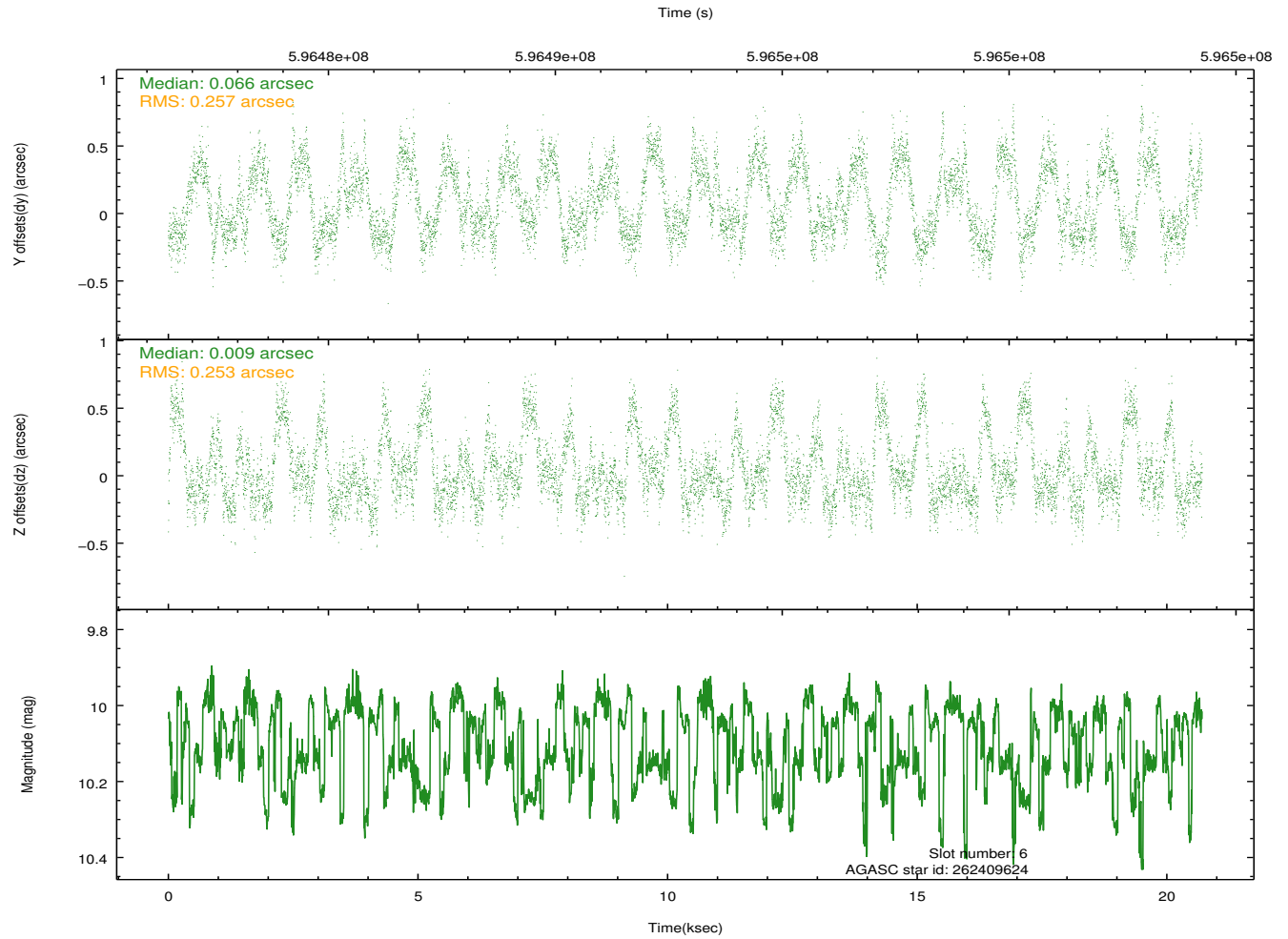
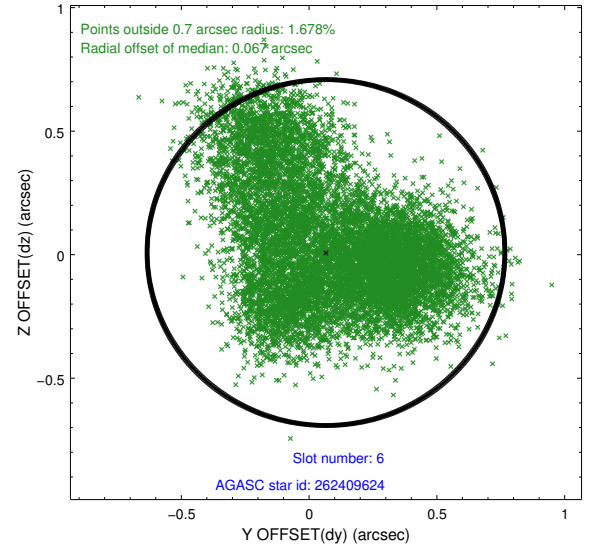
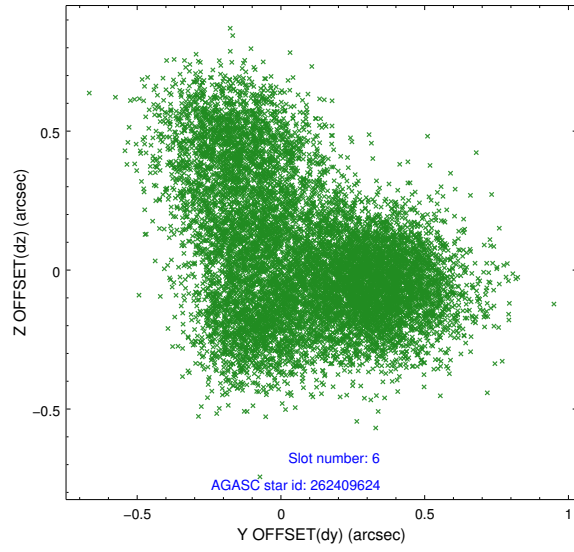
2.4.1 Slot 3



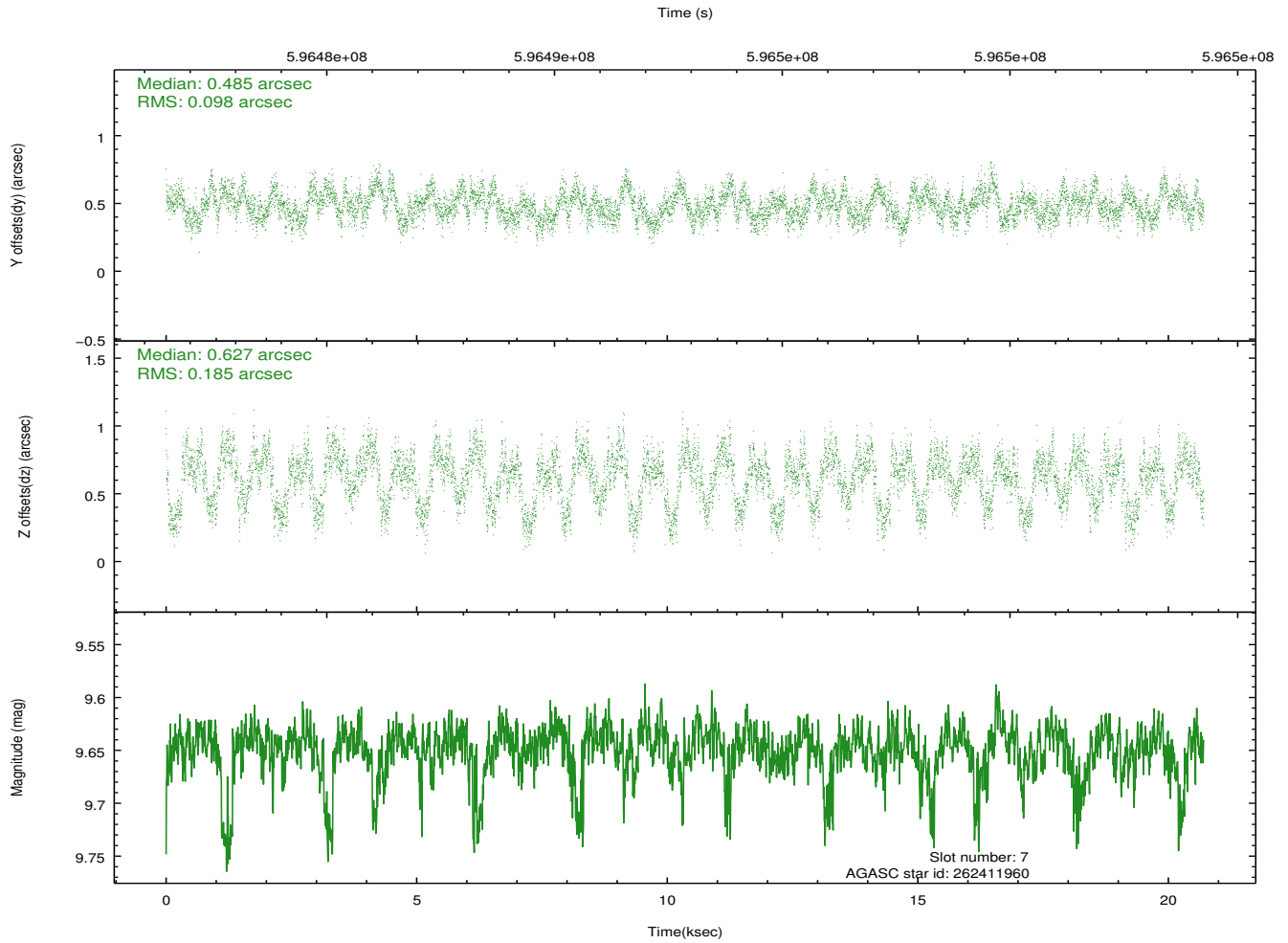
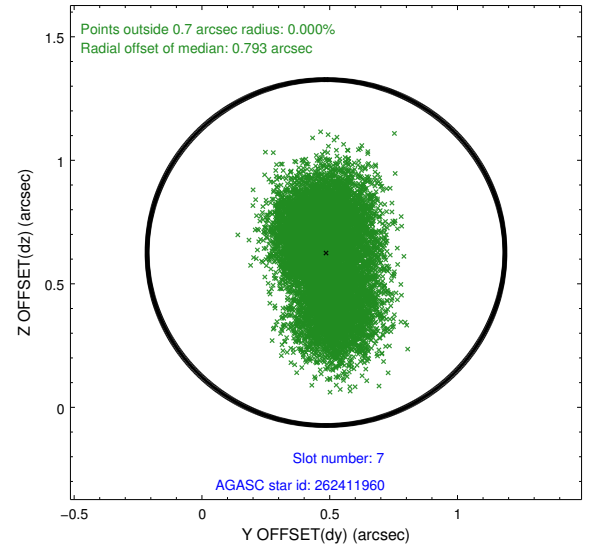
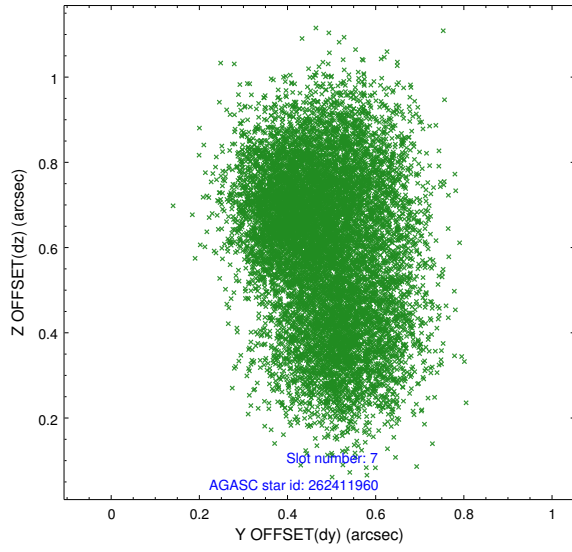
2.4.2 Slot 5



2.4.3 Slot 6

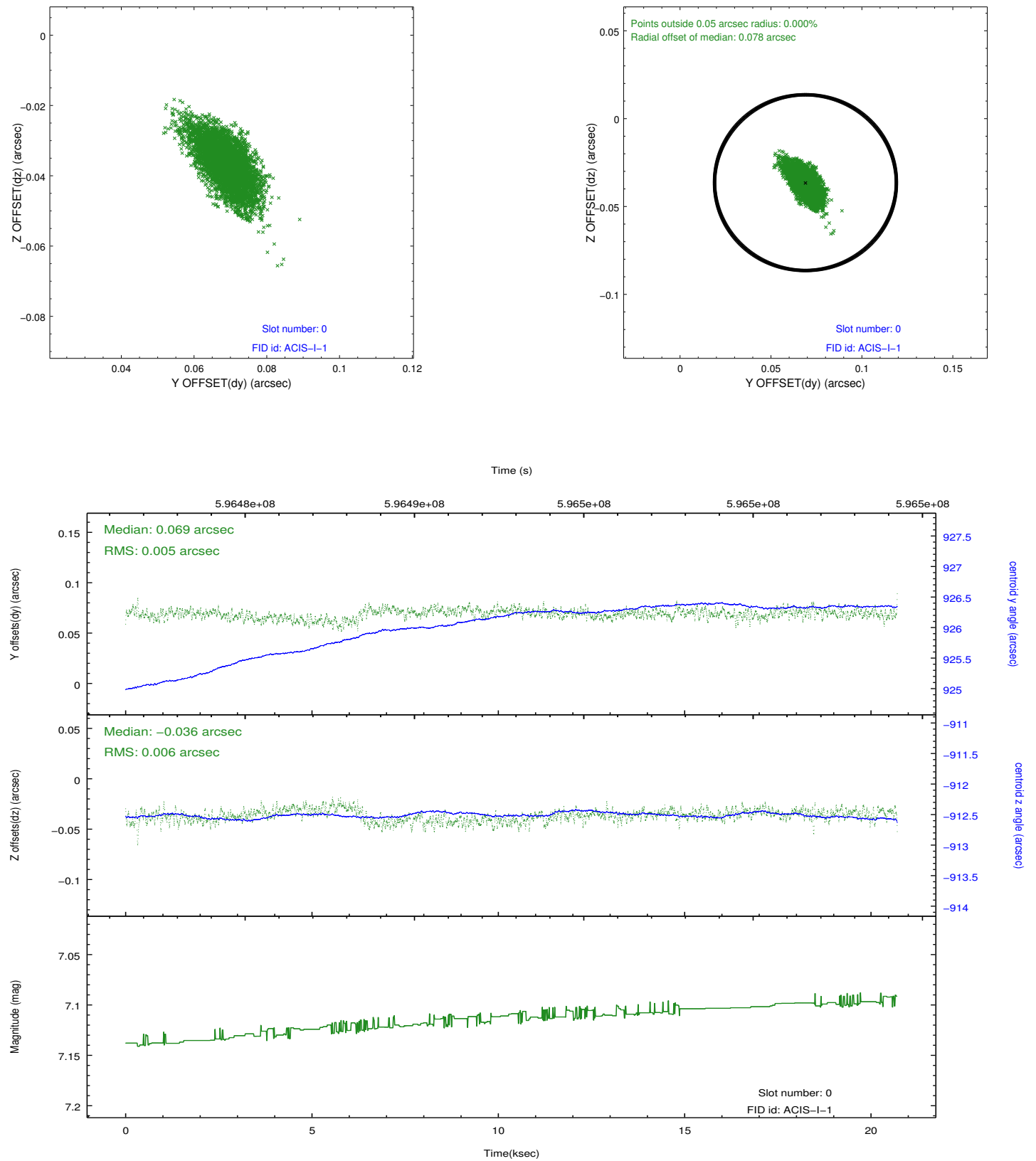


2.4.4 Slot 7

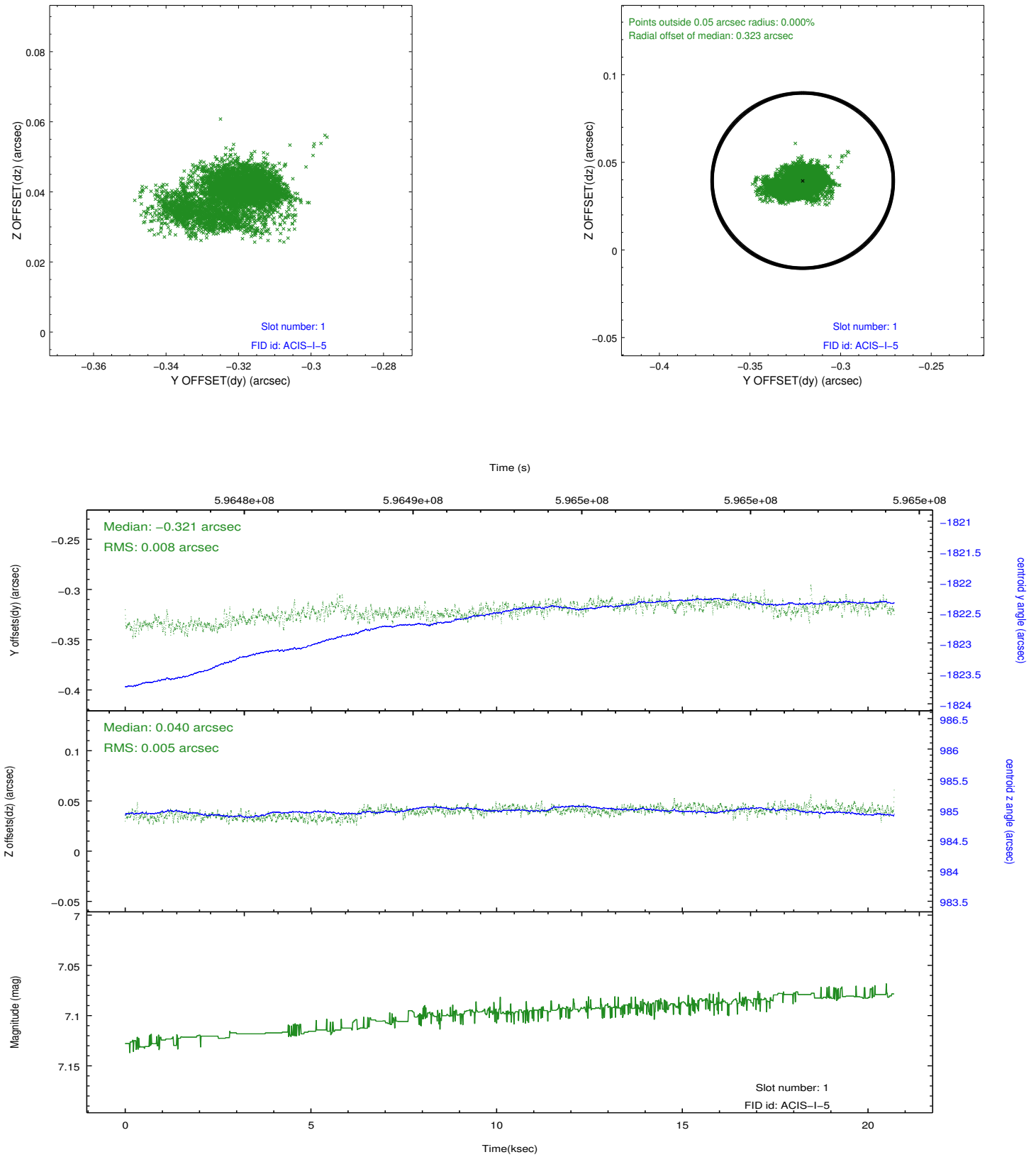


2.5 FID Slots

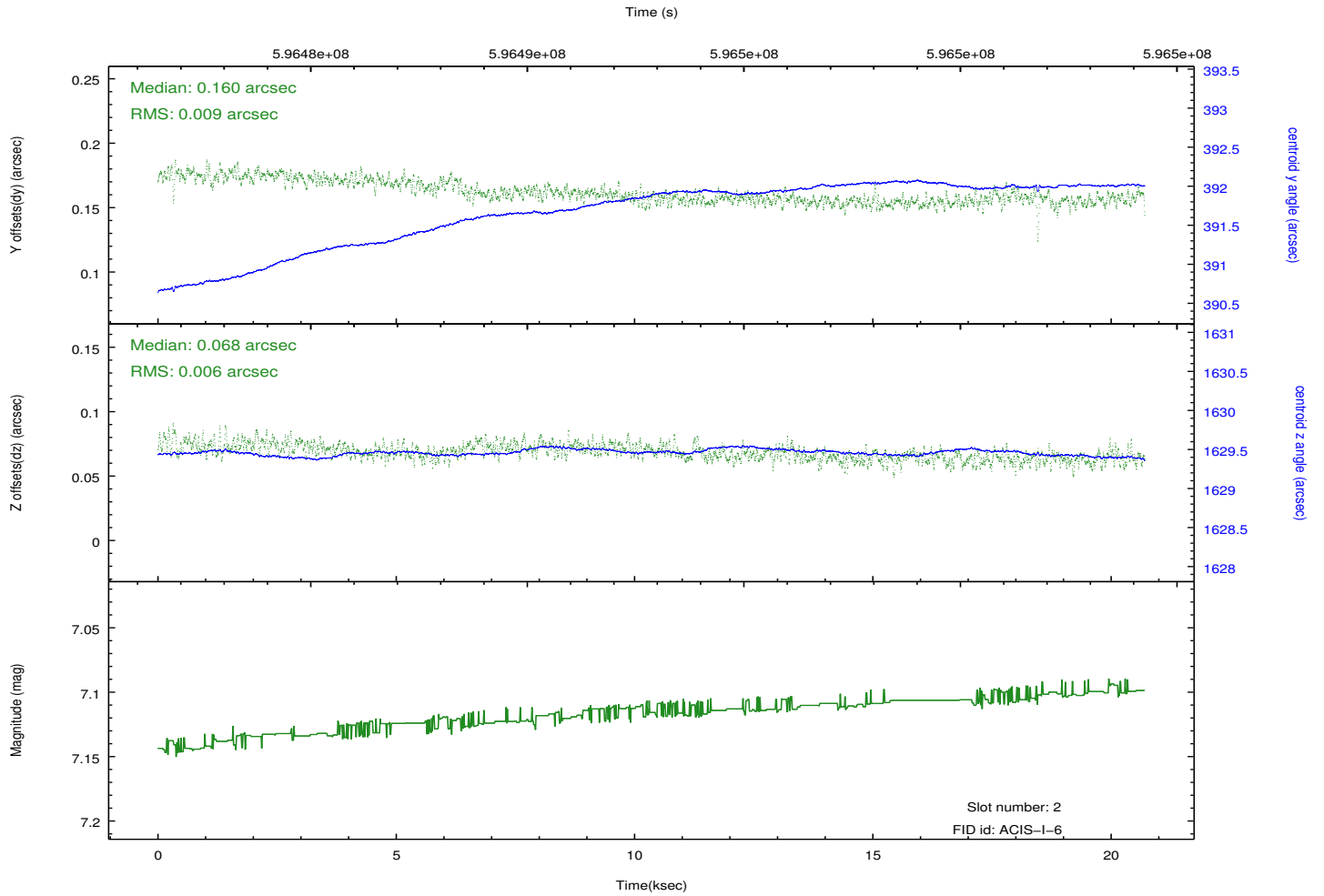
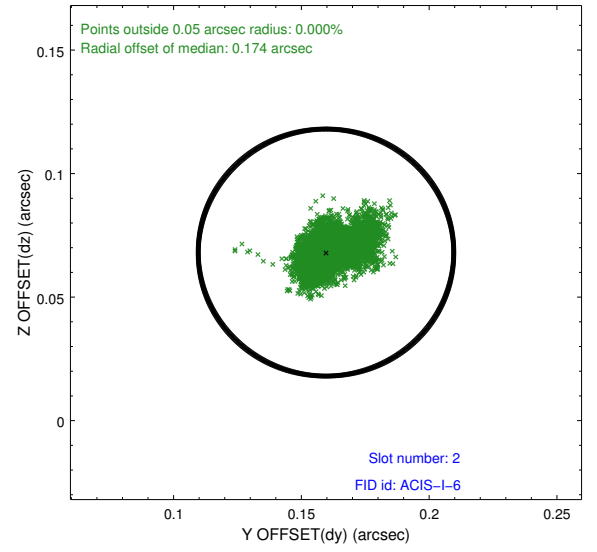
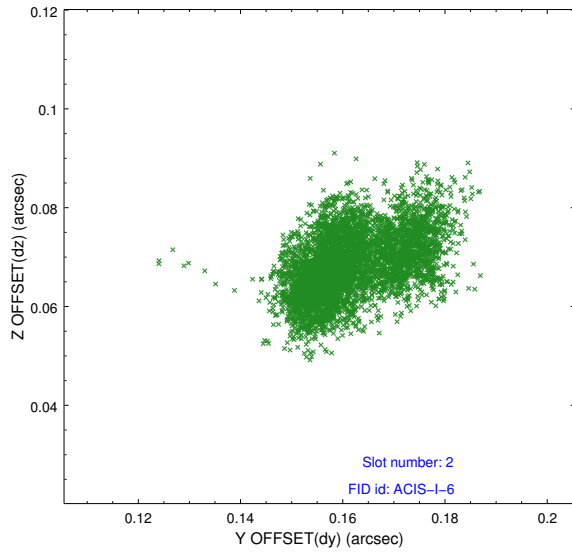
2.5.1 Slot 0



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)	2016.12.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.562259188056

A.2 Comments

Window preference met.

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.