

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17170 - L2 Version 1
Chandra X-Ray Center

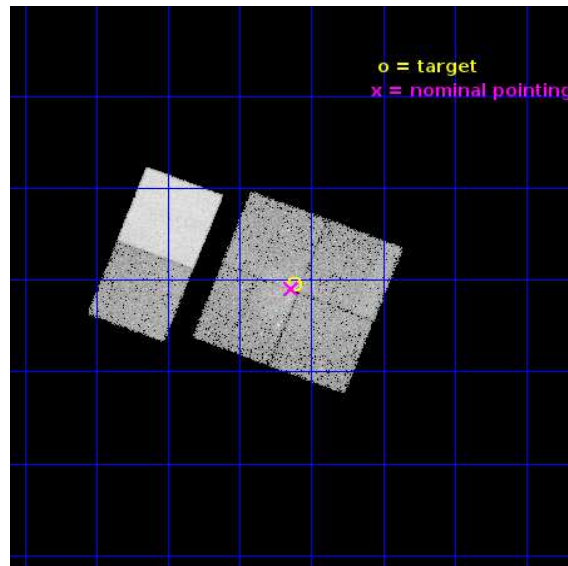
L2 Processing Date : Nov 6 2015

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1 Front

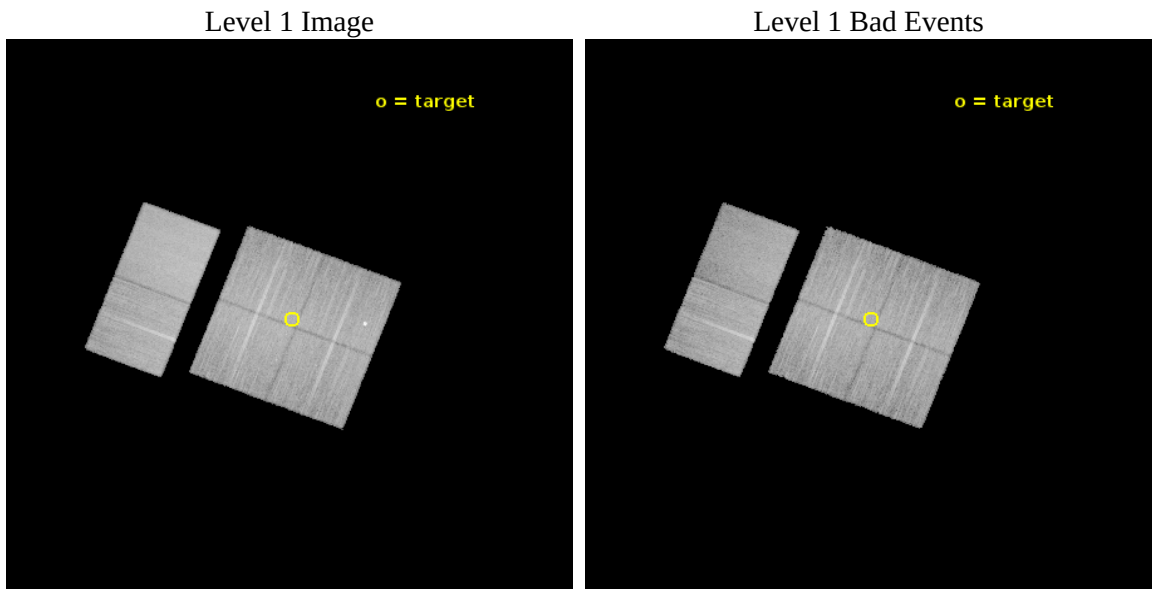
seq_num	801456	Sequence number
obs_id	17170	Observation id
title	A Cosmic Ray Mystery: No Shock Across a Radio Relic in ZwCl 2341.1+0000	Proposal title
observer	Georgiana Ogreaan	Principal investigator
object	ZwCl 2341.1+0000	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	355.903333	Observer's specified target RA [deg]
dec_targ	0.324889	Observer's specified target Dec [deg]
ra_nom	355.90982965097	Nominal RA [deg]
dec_nom	0.31723026321032	Nominal Dec [deg]
roll_nom	291.20865887814	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25711.619139075	Sum of GTIs [s]
livetime	25386.043135858	Livetime [s]
ontime0	25711.496019125	Sum of GTIs [s]
ontime1	25711.537059069	Sum of GTIs [s]
ontime2	25711.578099132	Sum of GTIs [s]
ontime3	25711.619139075	Sum of GTIs [s]
ontime6	25711.701219082	Sum of GTIs [s]
ontime7	25711.660179138	Sum of GTIs [s]
l2events	149116	Number of level 2 events



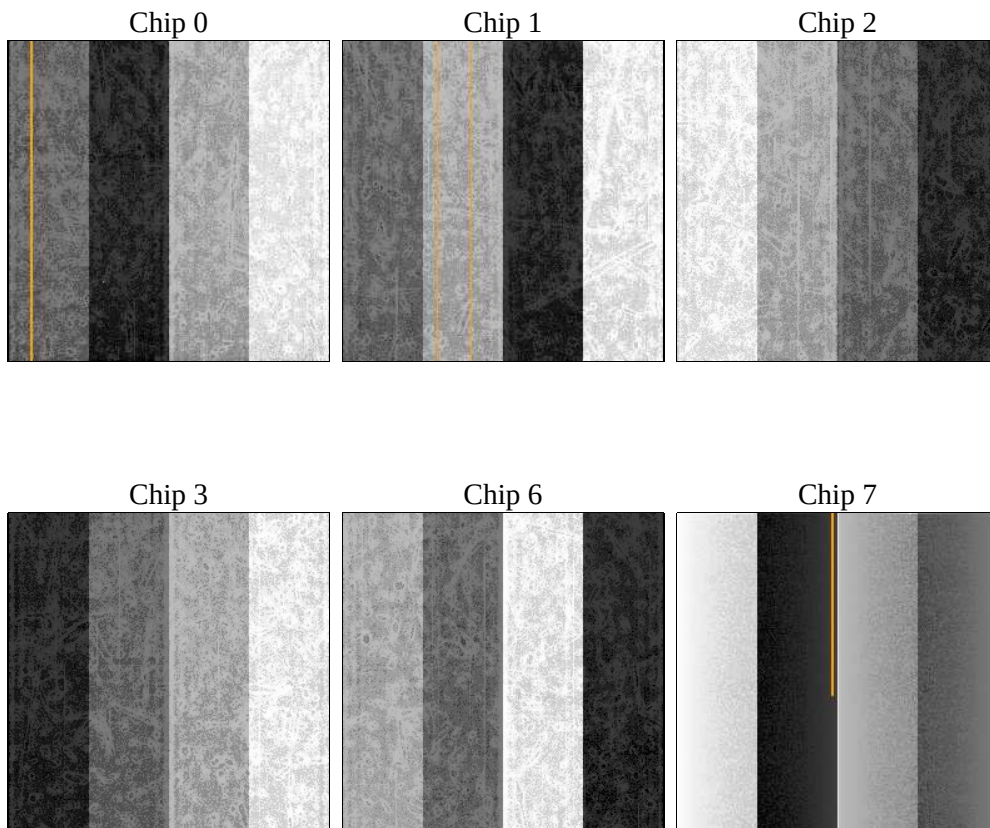
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25750.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	25711.619139075	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	25711.496019125	Sum of GTIs [s]
date	2015-11-06T17:44:01	Date and time of file creation	ontime1	25711.537059069	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25711.578099132	Sum of GTIs [s]
			ontime3	25711.619139075	Sum of GTIs [s]
			ontime6	25711.701219082	Sum of GTIs [s]
			ontime7	25711.660179138	Sum of GTIs [s]
			l1events	864301	Number of level 1 events

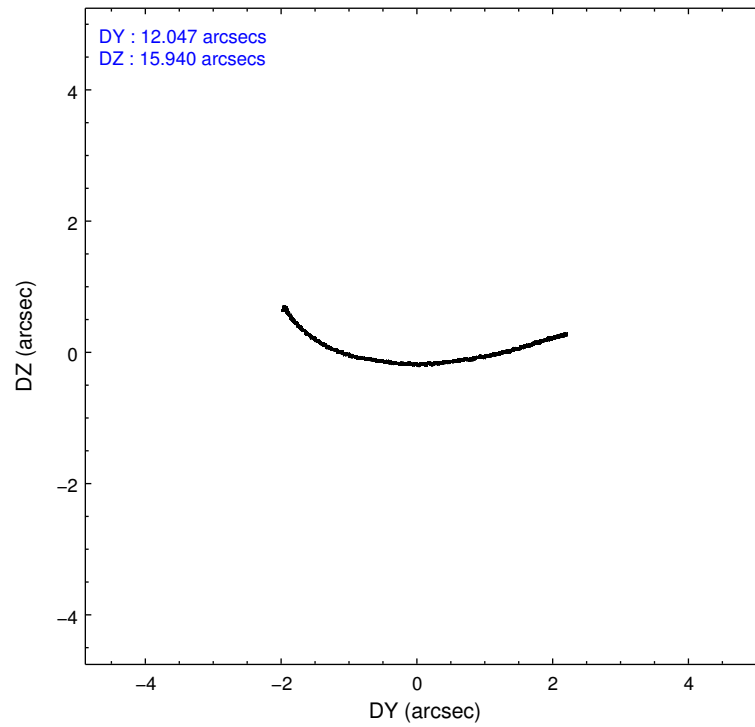
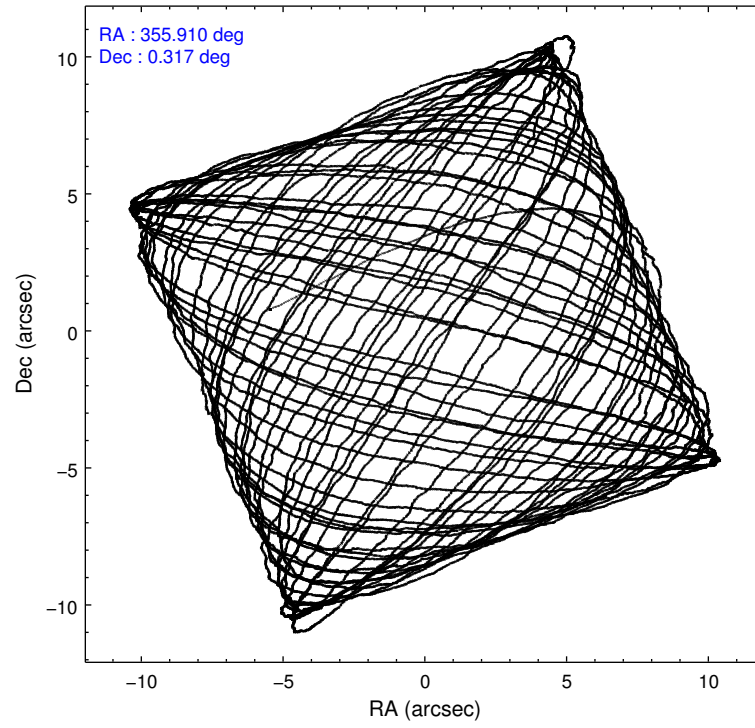
2.1.4 Events

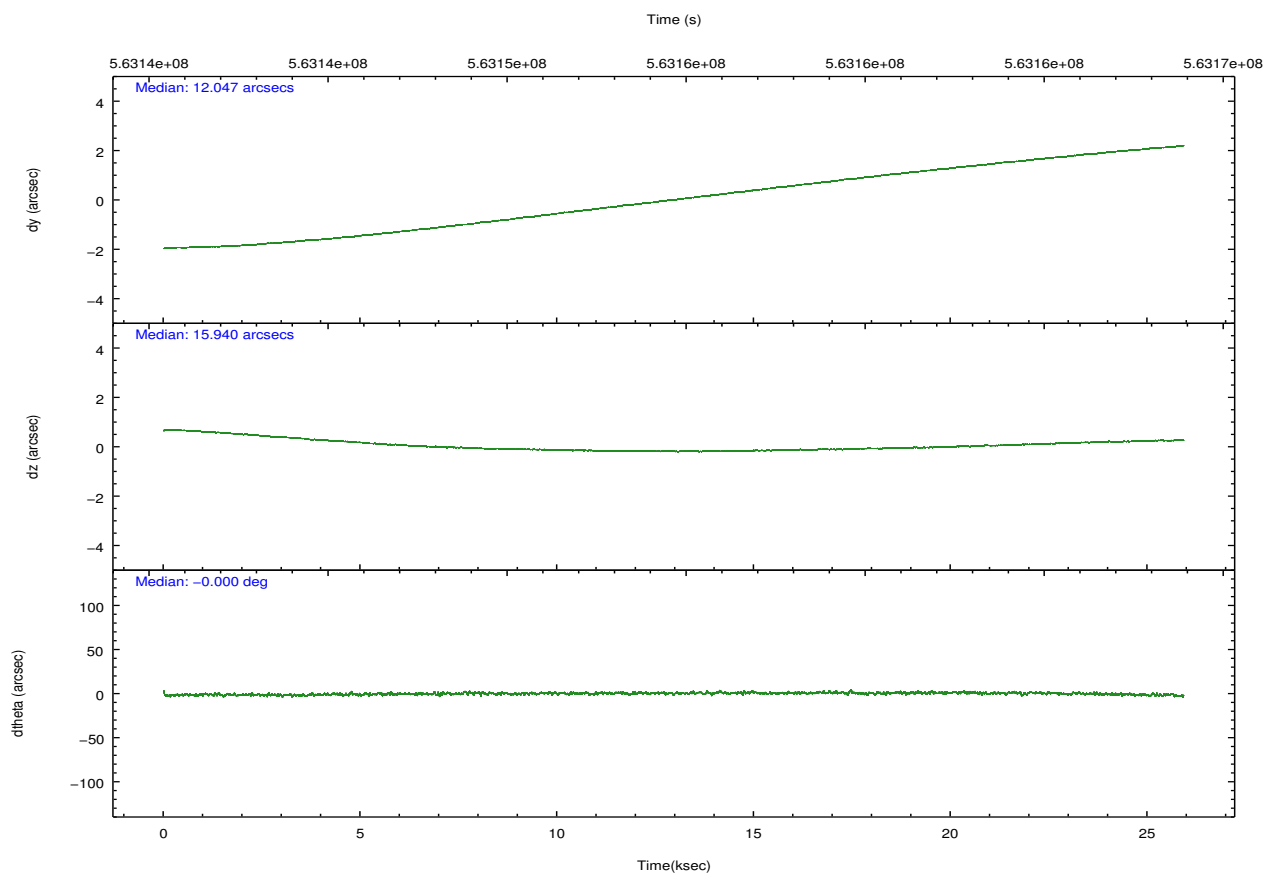
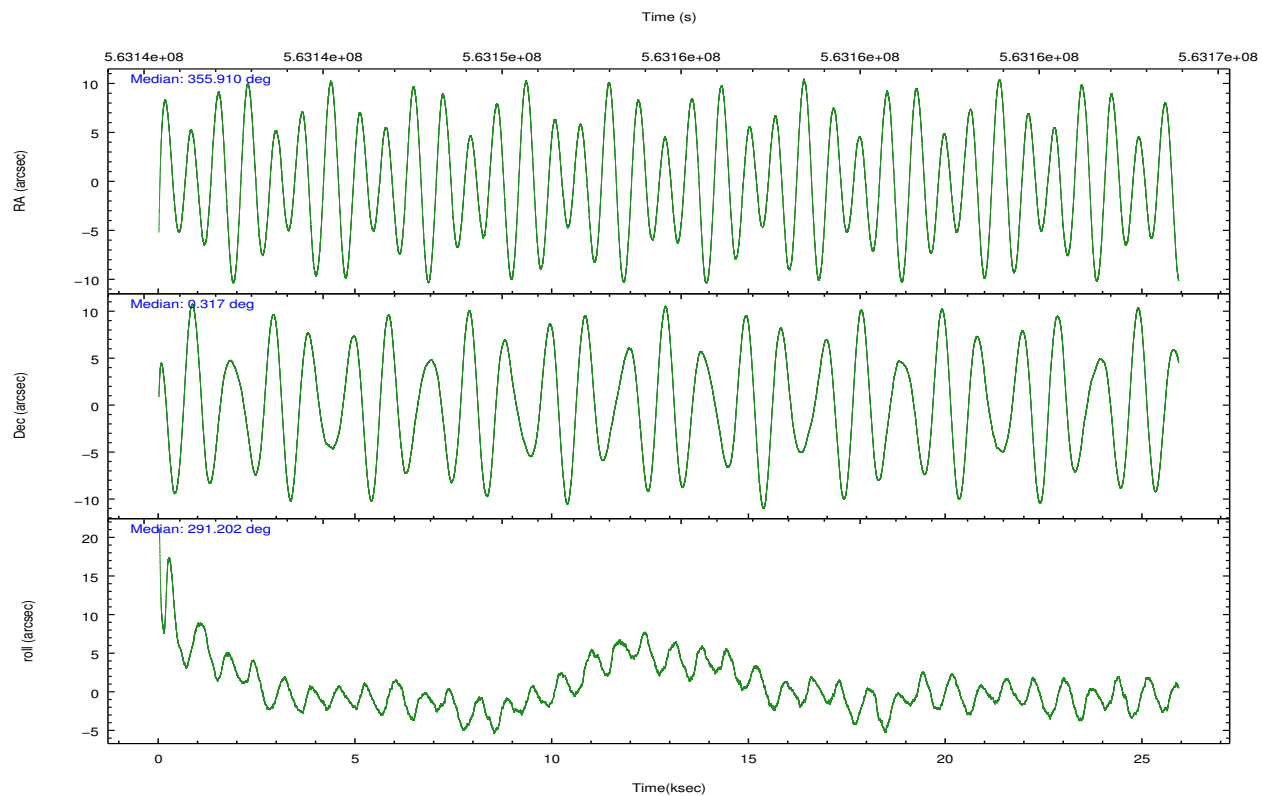
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	123837	133047	140947	135784	144763	185923	grade 0 events	5692	8501	7128	5965	5373	6792
rejected events	107630	113239	123550	119663	128308	105900		4%	6%	5%	4%	3%	3%
rejected %	86%	85%	87%	88%	88%	56%	grade 1 events	83	80	85	81	71	270
								0%	0%	0%	0%	0%	0%
							grade 2 events	3991	4304	4062	3534	3781	16501
								3%	3%	2%	2%	2%	8%
							grade 3 events	1665	1607	1526	1616	1658	6692
								1%	1%	1%	1%	1%	3%
							grade 4 events	1577	1693	1557	1699	1629	6470
								1%	1%	1%	1%	1%	3%
							grade 5 events	6210	6727	5786	7313	7276	18702
								5%	5%	4%	5%	5%	10%
							grade 6 events	3286	3707	3128	3311	4015	43588
								2%	2%	2%	2%	2%	23%
							grade 7 events	101333	106428	117675	112265	120960	86908
								81%	79%	83%	82%	83%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	355.888238	355.9098296509709	CCD I2 on	Y	Y
[deg] Pointing Dec	0.334448	0.3172302632103163	CCD I3 on	Y	Y
[deg] Pointing Roll	291.000085	291.2086588781408	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	563141881.184000	563140763.41483	CCD S5 on	N	N
Observation start date	2015-11-05T20:16:53	2015-11-05T19:59:23	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	563167631.184000	563168760.77891	On-chip summing requested	N	N
Observation end date	2015-11-06T03:26:03	2015-11-06T03:46:00	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



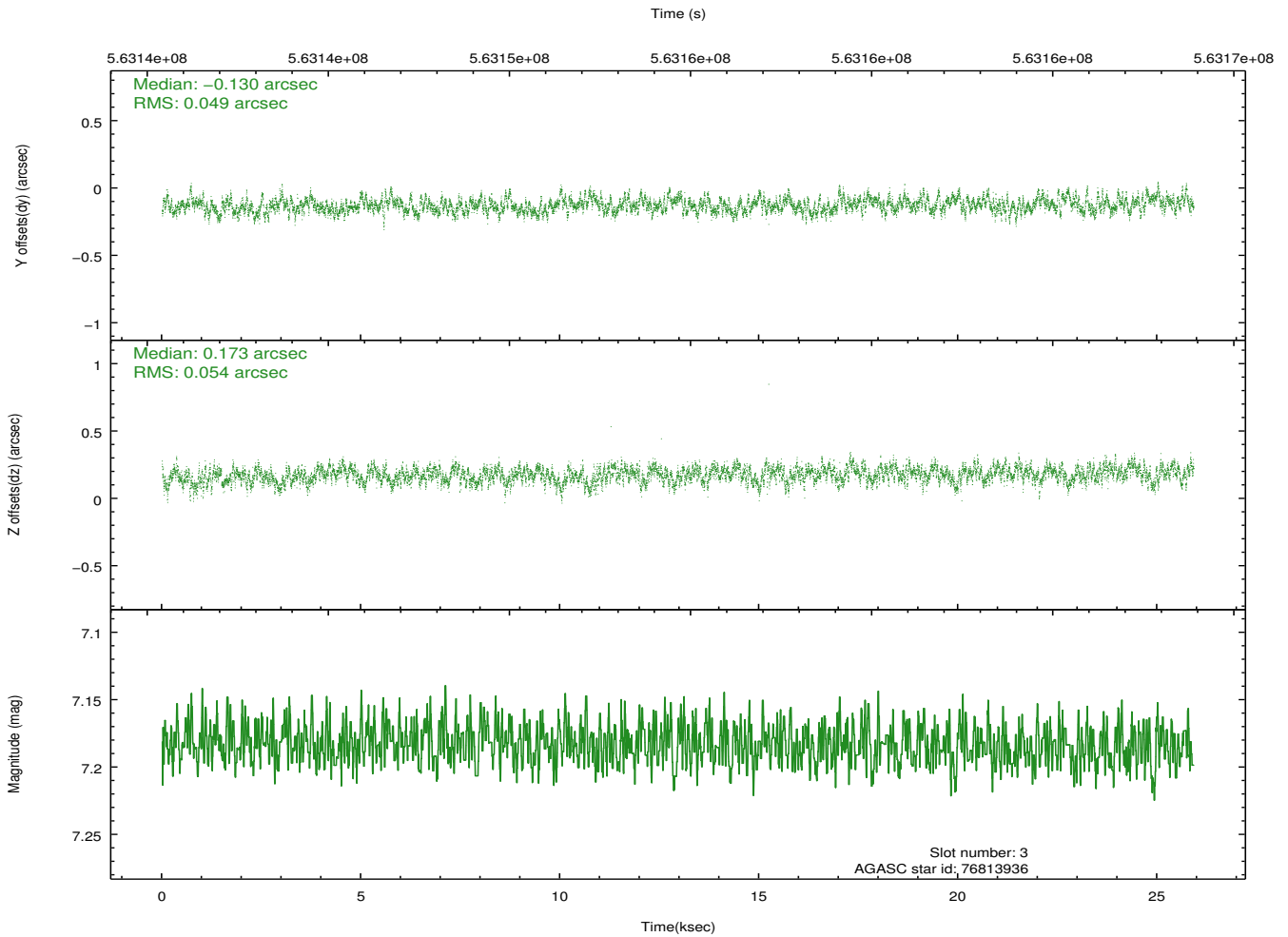
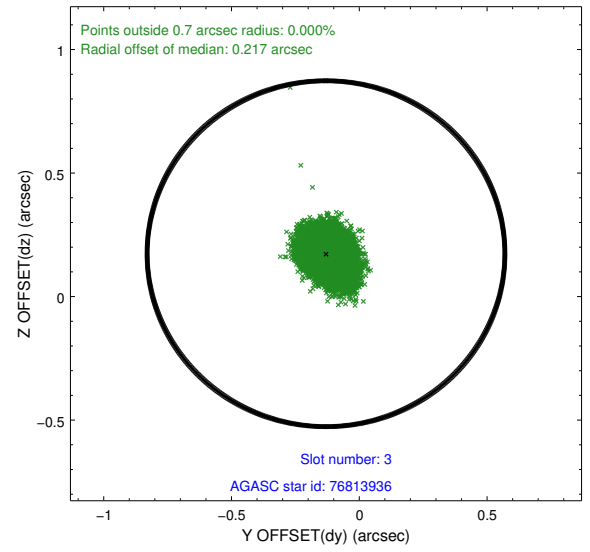
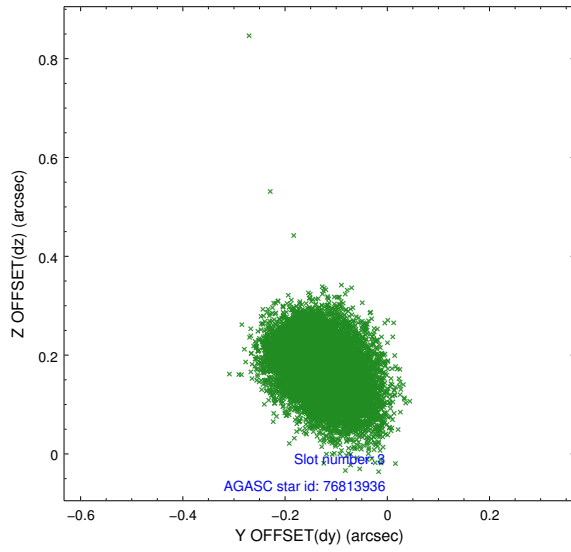


Slot Statistics

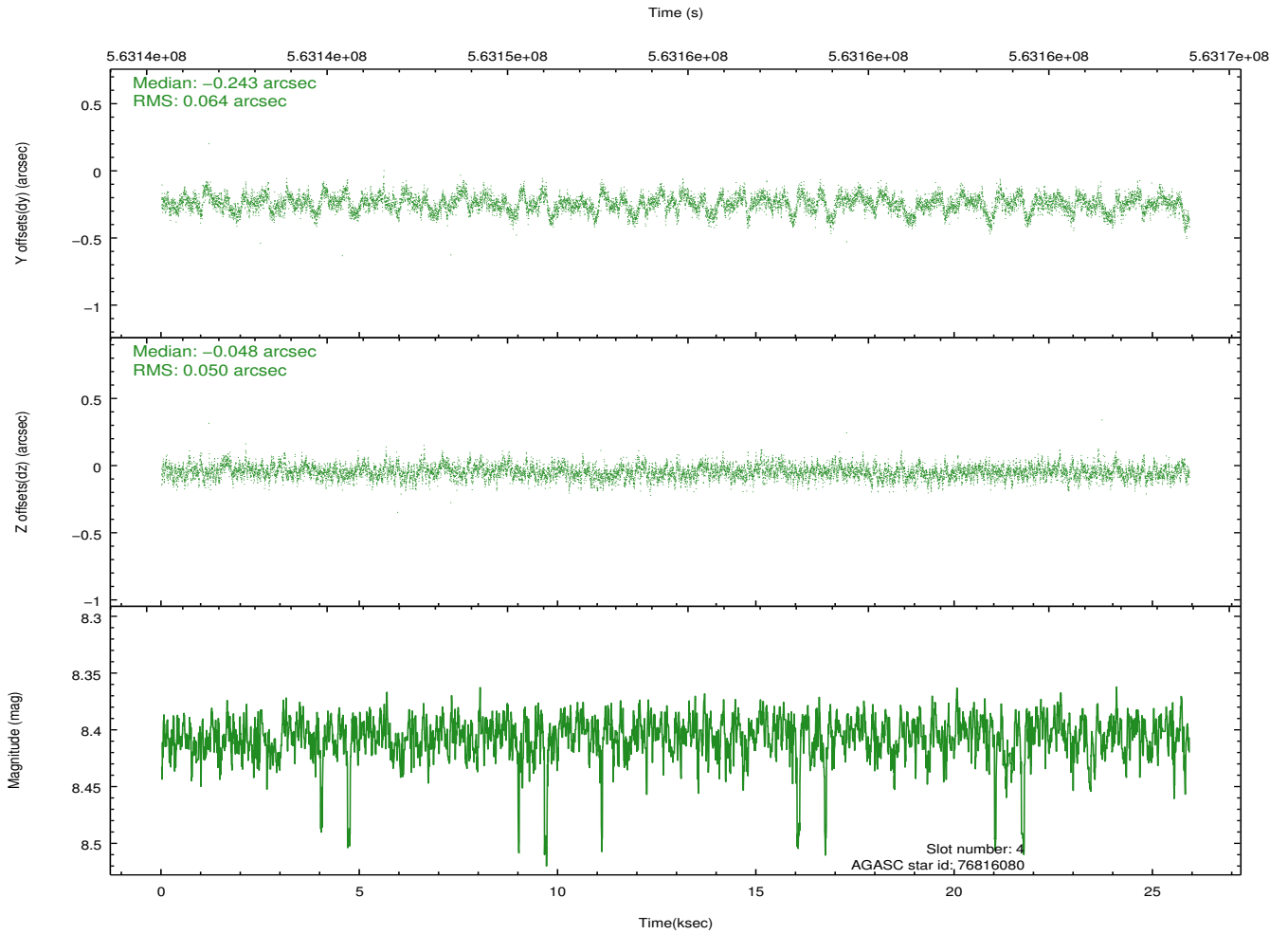
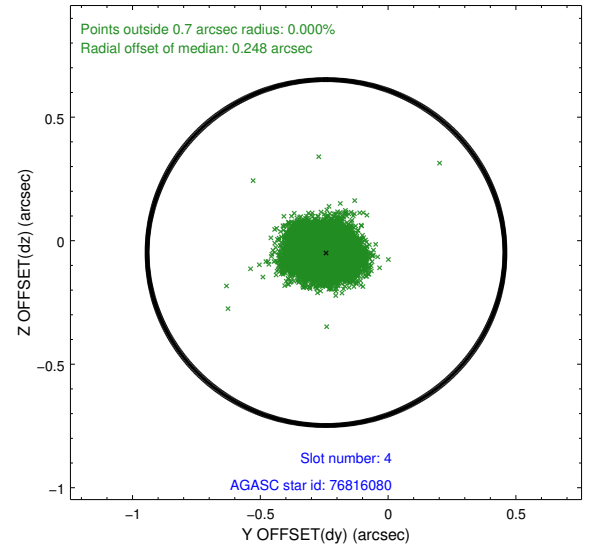
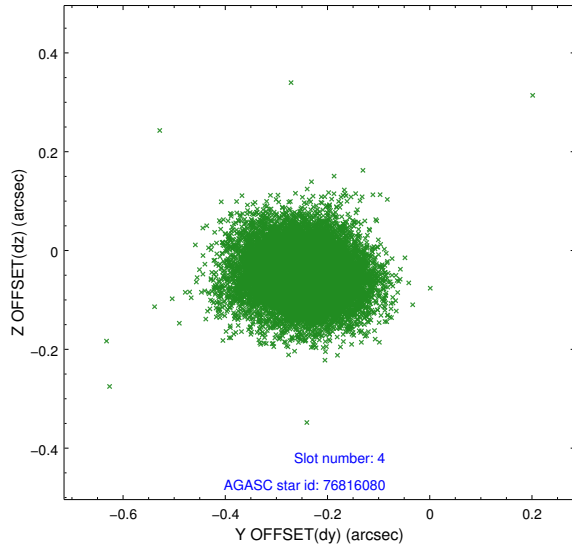
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	6321	0.008	-0.039	0.020	0.028	0.000000	0.000000	927.46	-839.70
1	FID		ACIS-I-2	7.16	6320	-0.292	-0.098	0.021	0.031	0.000000	0.000000	-766.87	-846.21
2	FID		ACIS-I-4	7.17	6321	0.184	0.201	0.033	0.052	0.000000	0.000000	2147.53	1060.26
3	GUIDE	used	76813936	7.18	12642	-0.130	0.173	0.077	0.125	355.167647	0.415974	-1203.48	-2317.50
4	GUIDE	used	76816080	8.41	12640	-0.243	-0.048	0.085	0.141	355.811078	0.904637	-2015.96	476.21
5	GUIDE	used	76816336	8.63	12565	-0.101	-0.022	0.095	0.151	355.735644	0.239731	121.46	-633.95
6	GUIDE	used	76816448	9.17	12629	0.146	0.020	0.109	0.177	355.330481	0.283128	-546.32	-1940.71
7	GUIDE	used	688397848	8.58	12634	0.329	-0.123	0.104	0.170	355.824310	-0.155582	1565.17	-846.83

2.4 Star Slots

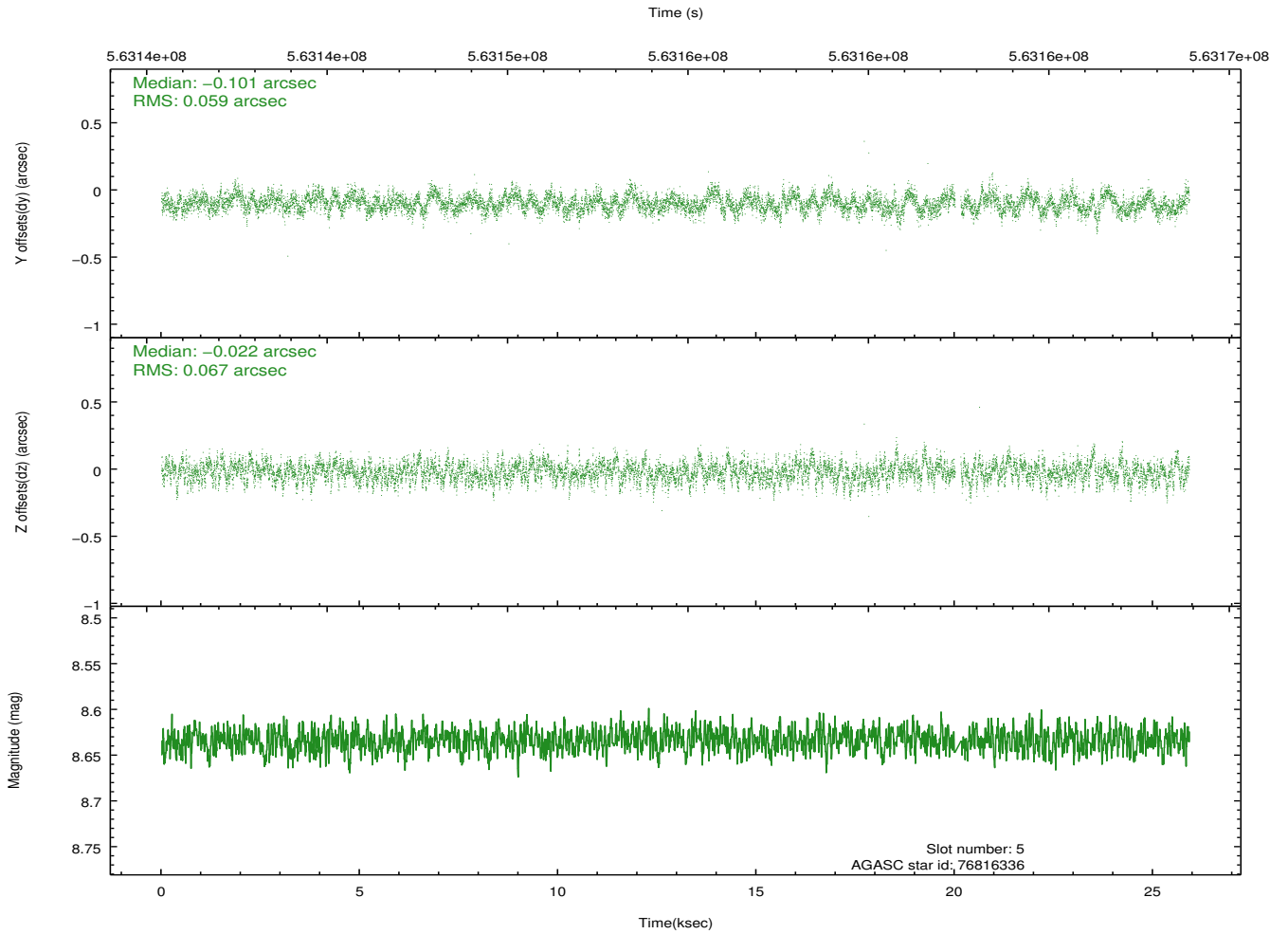
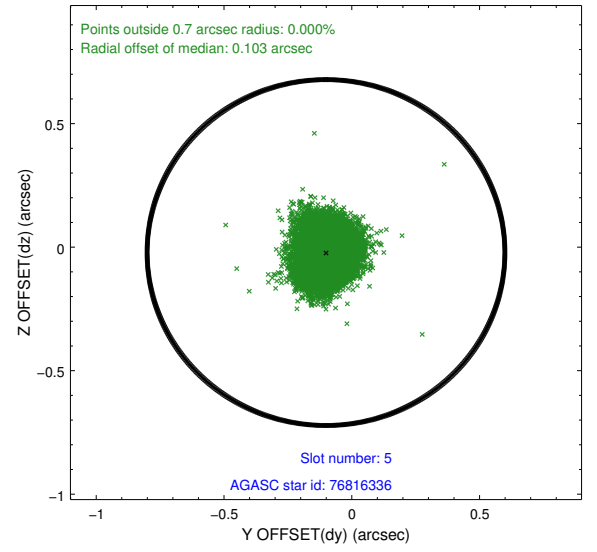
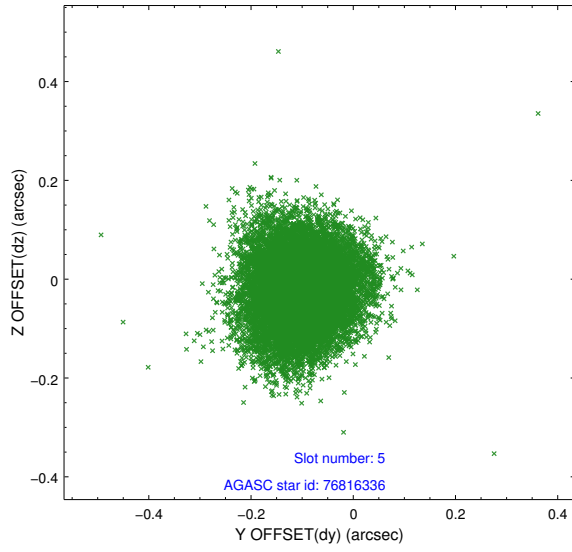
2.4.1 Slot 3



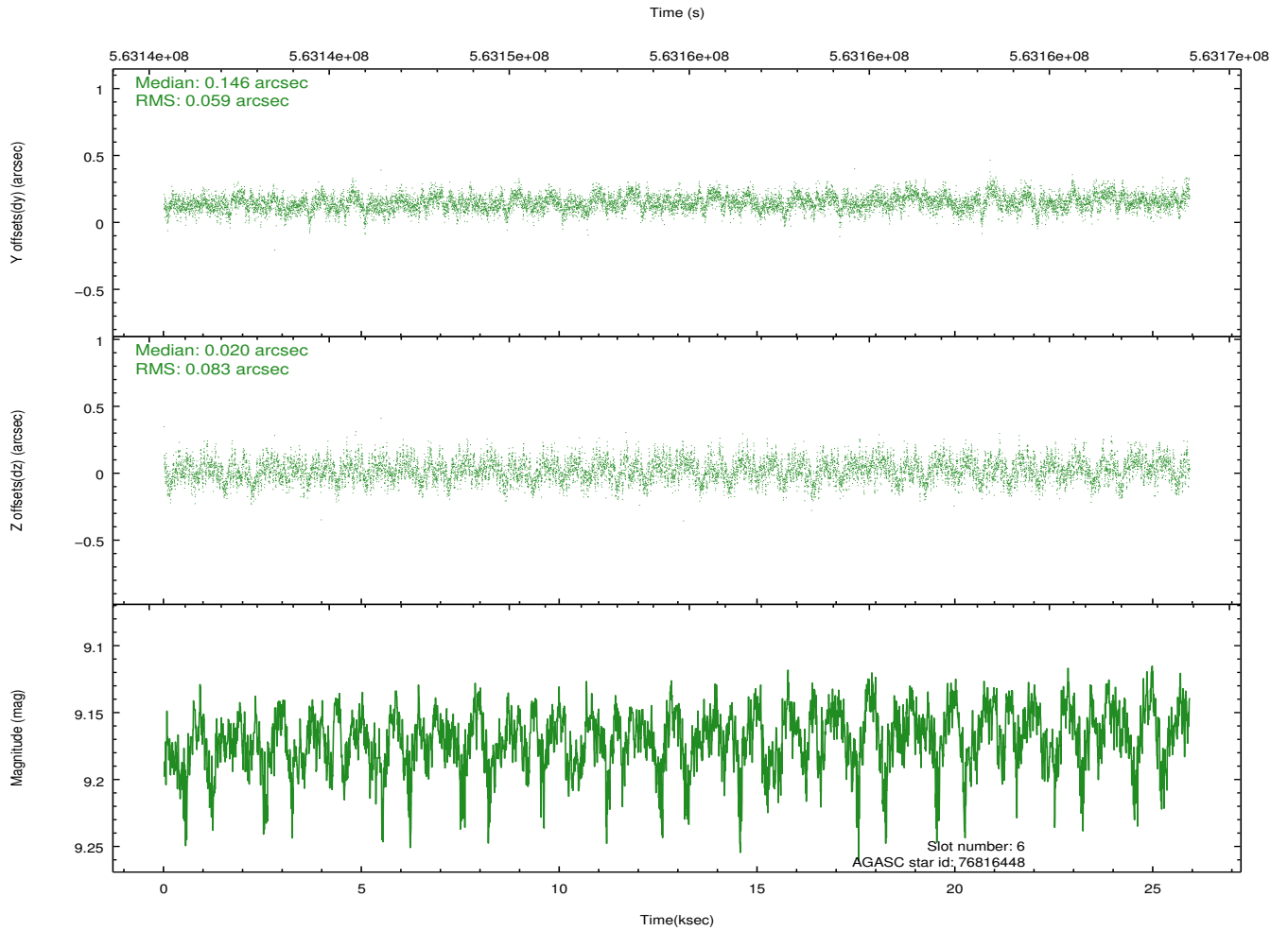
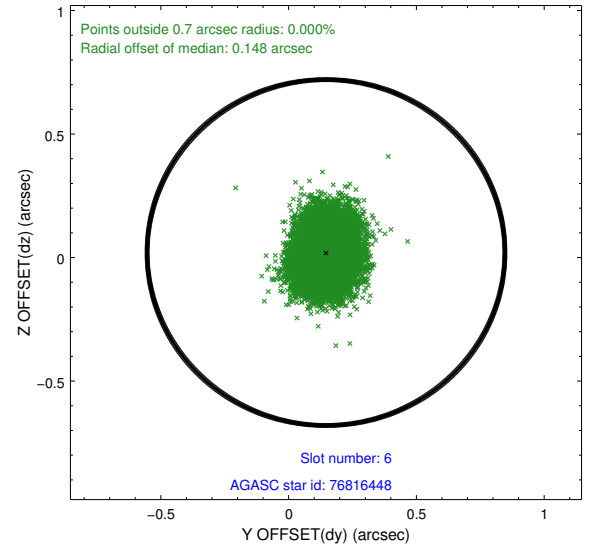
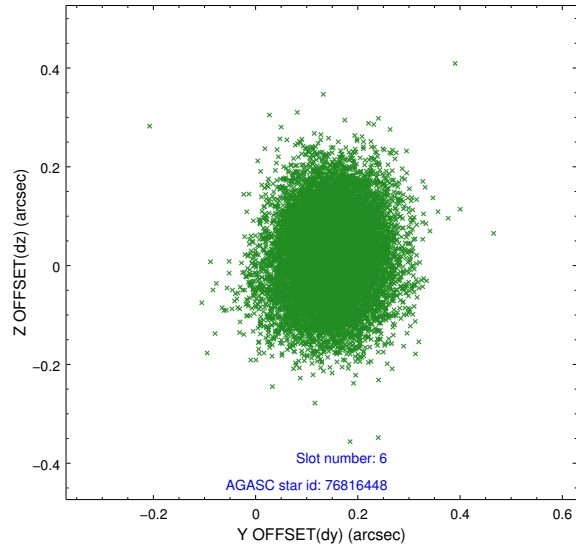
2.4.2 Slot 4



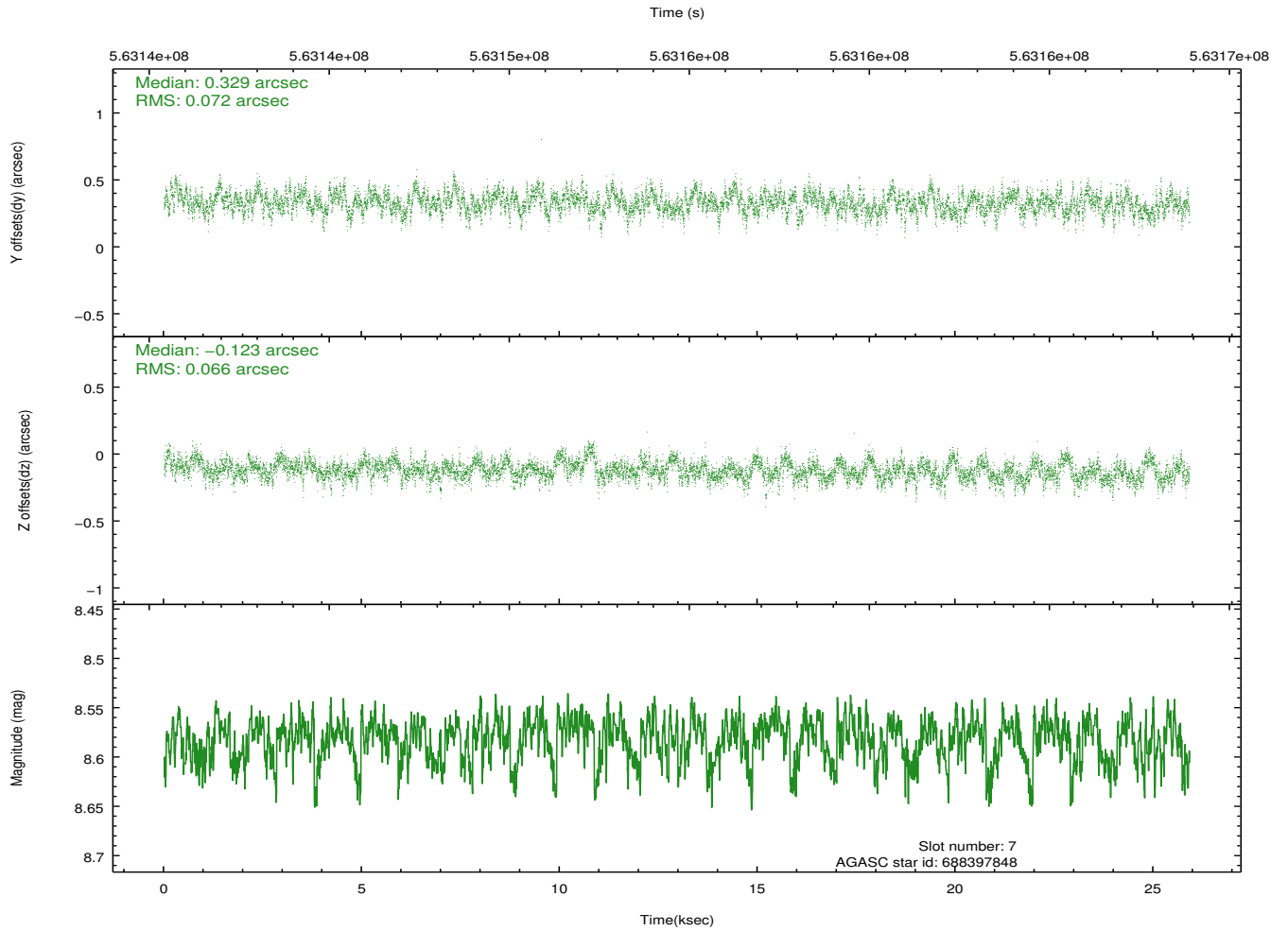
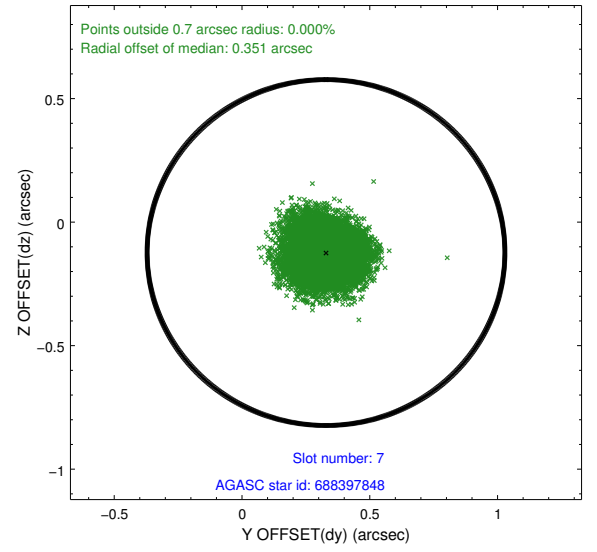
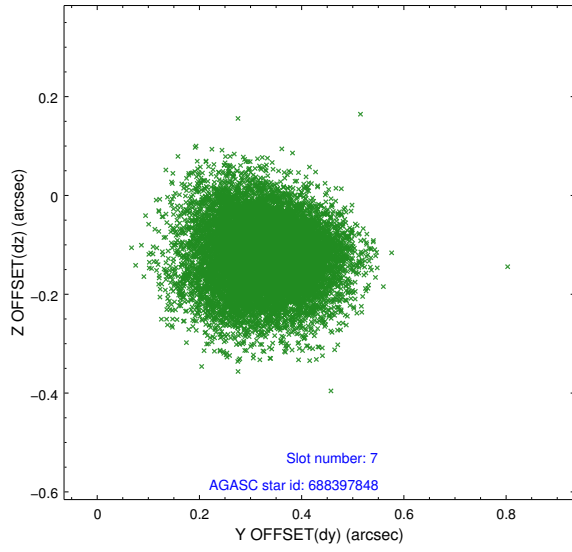
2.4.3 Slot 5



2.4.4 Slot 6

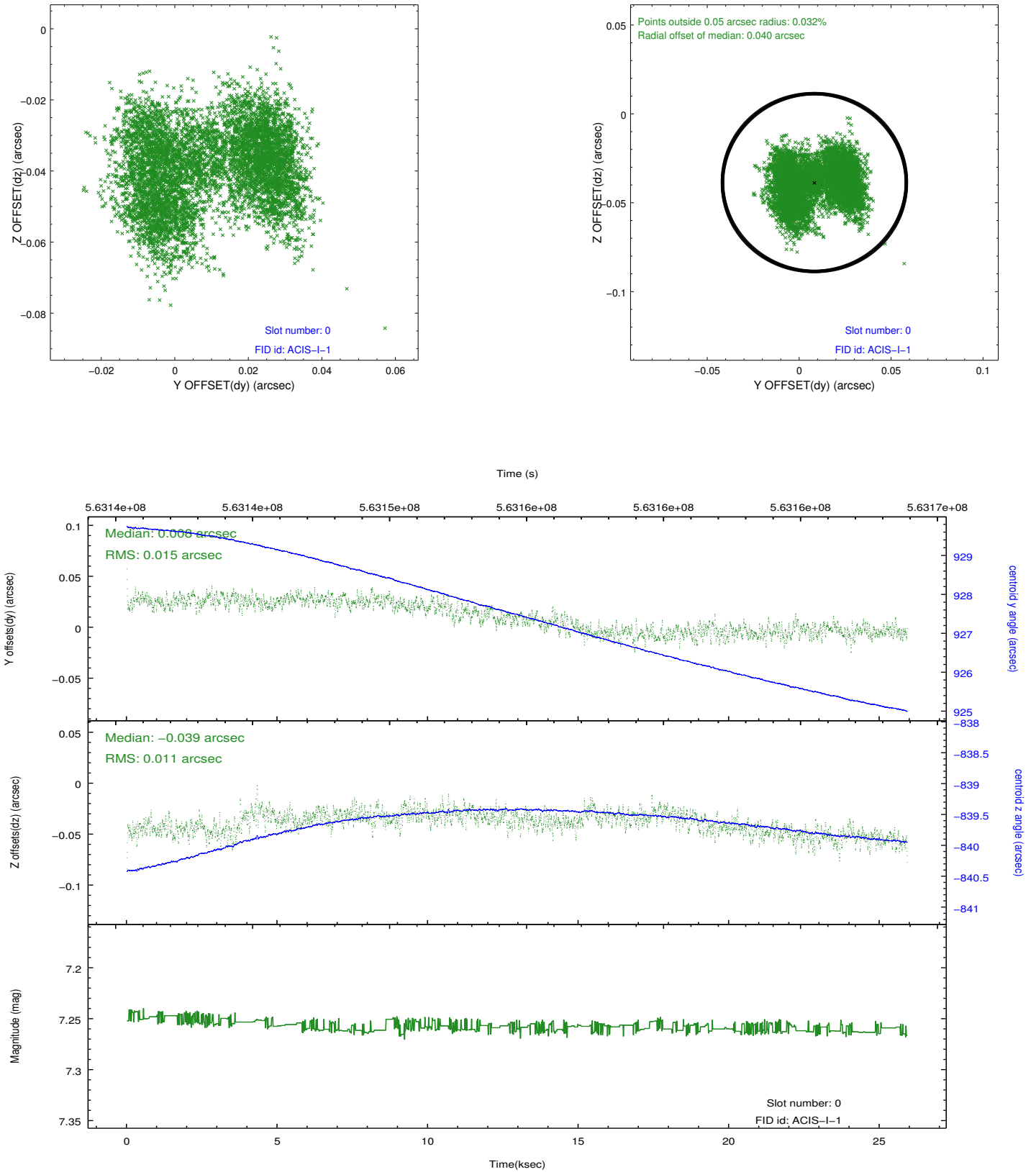


2.4.5 Slot 7

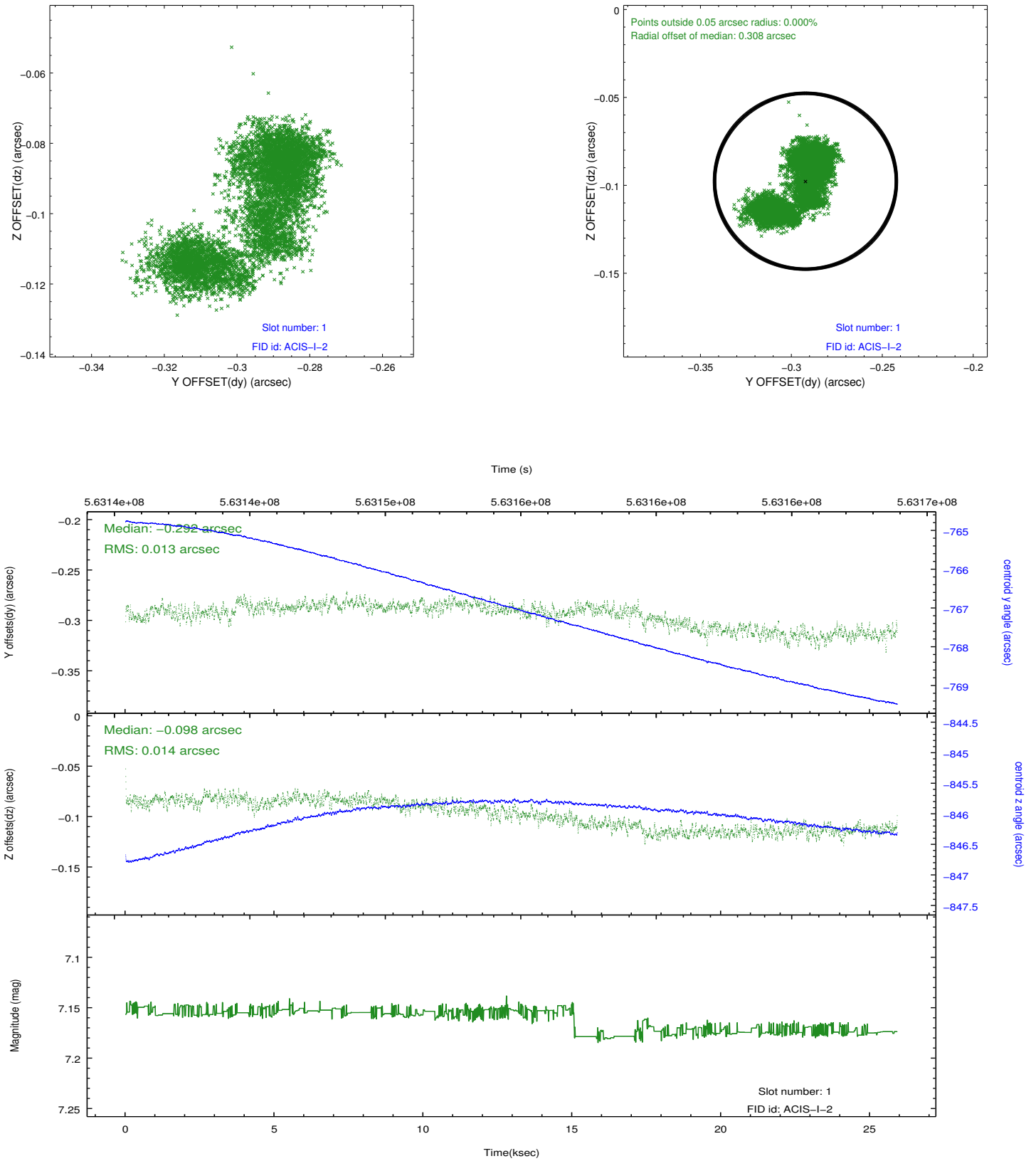


2.5 FID Slots

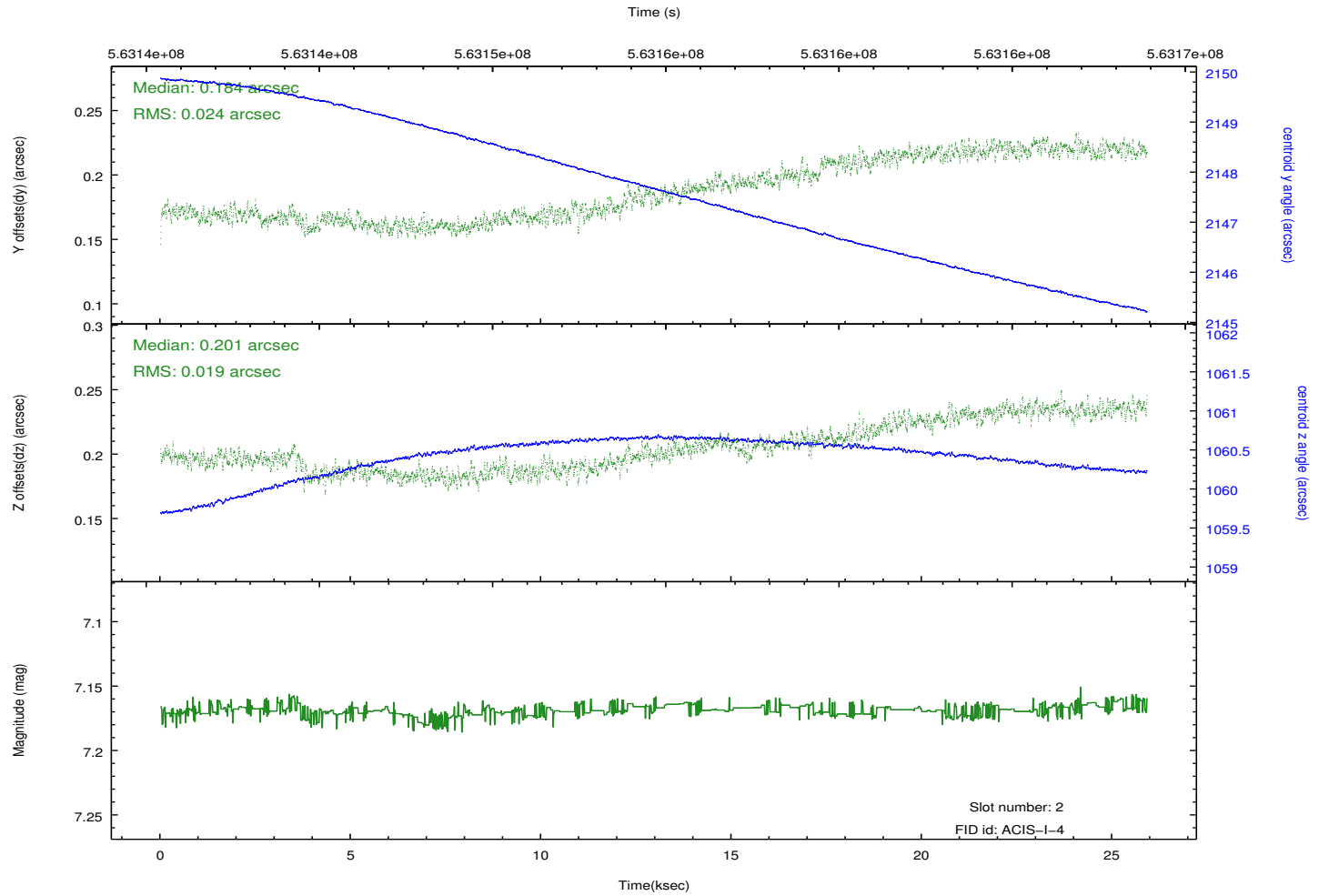
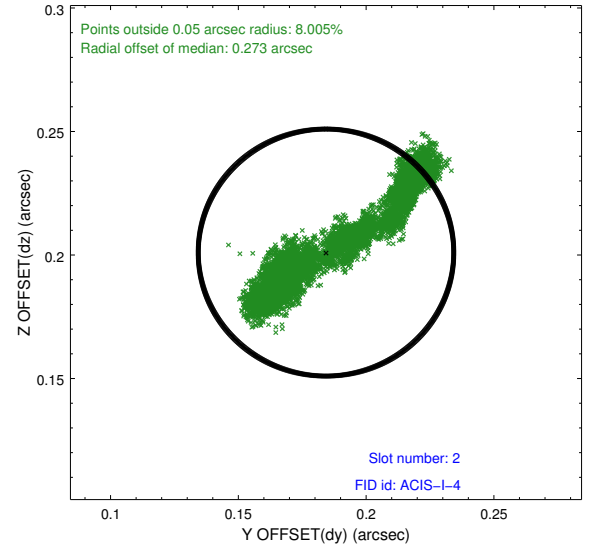
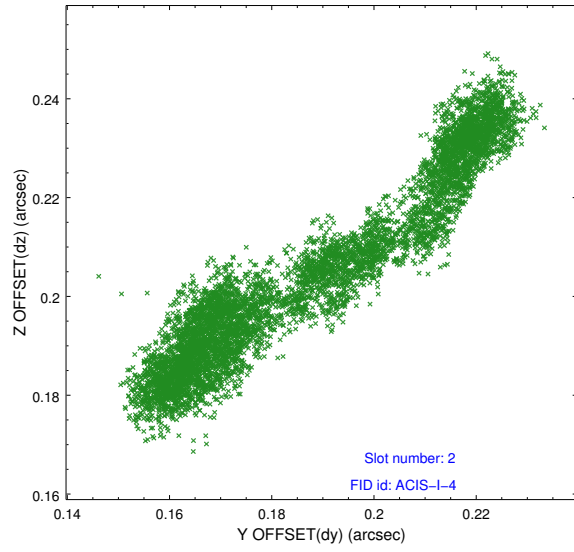
2.5.1 Slot 0



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)	2015.11.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.711619139075

A.2 Comments

Joint proposal with NRAO.