

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12106 - L2 Version 2
Chandra X-Ray Center

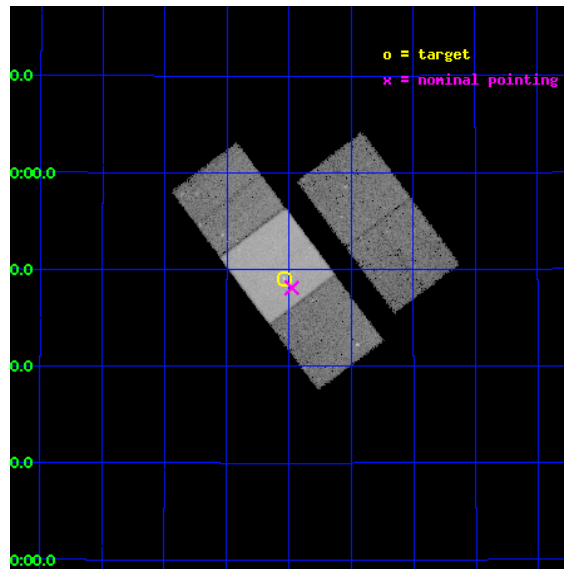
L2 Processing Date : Jun 21 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

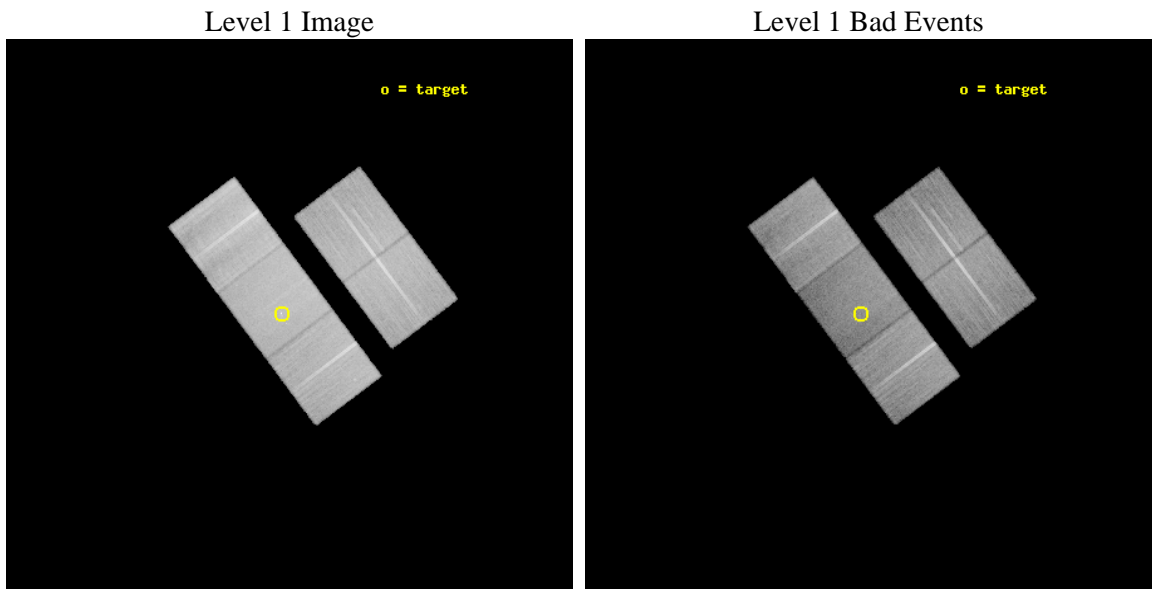
seq_num	702274	Sequence number
obs_id	12106	Observation id
title	Jet-ISM Interactions in a Restarting Radio Galaxy 4C 29.30	Proposa
observer	Dr. Aneta Siemiginowska	Principal investigator
object	4c+29.30	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	130.01	Observer's specified target RA [deg]
dec_targ	29.817389	Observer's specified target Dec [deg]
ra_nom	129.99409876367	Nominal RA [deg]
dec_nom	29.801748963557	Nominal Dec [deg]
roll_nom	233.16453782247	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30451.300234199	Sum of GTIs [s]
livetime	30053.431578718	Livetime [s]
ontime2	30448.15921396	Sum of GTIs [s]
ontime3	30441.877203345	Sum of GTIs [s]
ontime6	30448.159233928	Sum of GTIs [s]
ontime7	30451.300234199	Sum of GTIs [s]
ontime8	30448.159213841	Sum of GTIs [s]
l2events	222755	Number of level 2 events



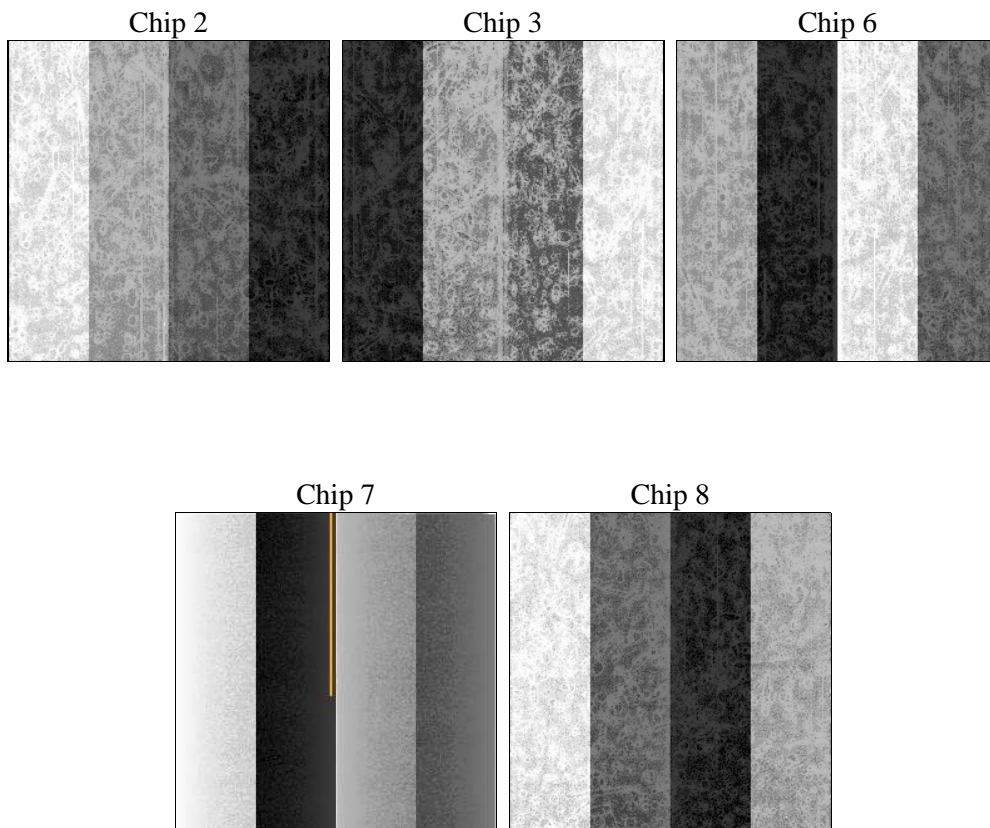
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	30283.737000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	30451.300234199	Sum of GTIs [s]
caldbver	4.4.10	 	ontime2	30448.15921396	Sum of GTIs [s]
date	2012-06-21T15:41:46	Date and time of file creation	ontime3	30441.877203345	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	30448.159233928	Sum of GTIs [s]
			ontime7	30451.300234199	Sum of GTIs [s]
			ontime8	30448.159213841	Sum of GTIs [s]
			l1events	1414796	Number of level 1 events

2.1.4 Events

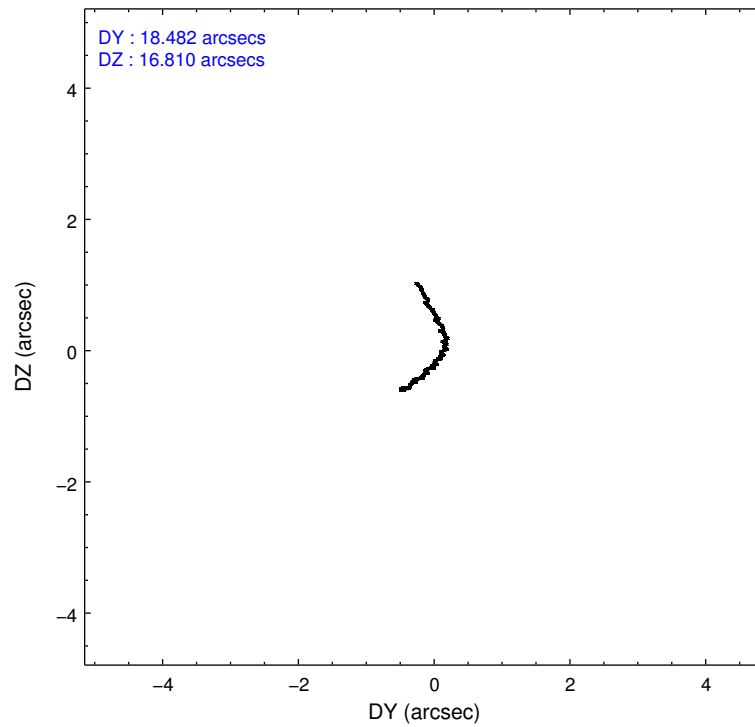
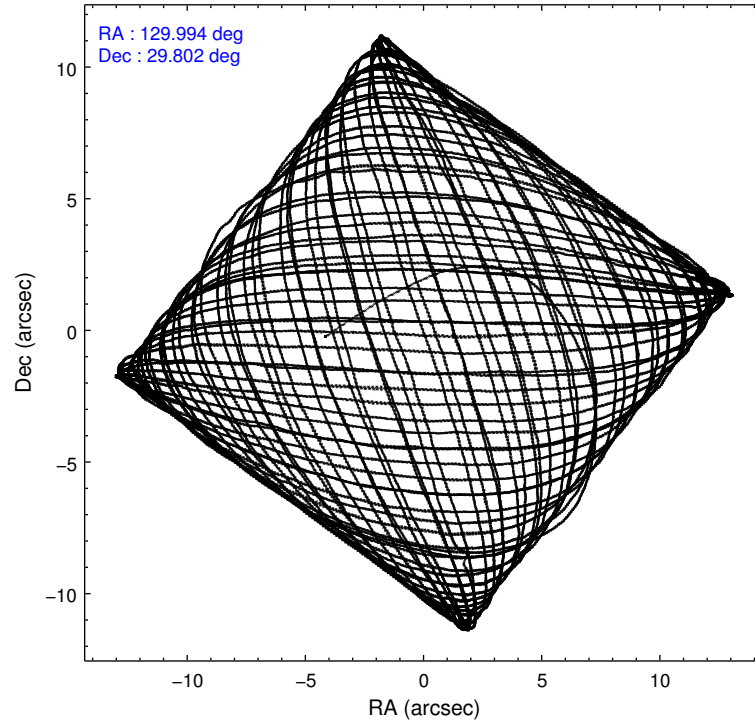
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	259543	248520	266938	306655	333140
rejected events	234334	224184	239398	172660	251071
rejected %	90%	90%	89%	56%	75%

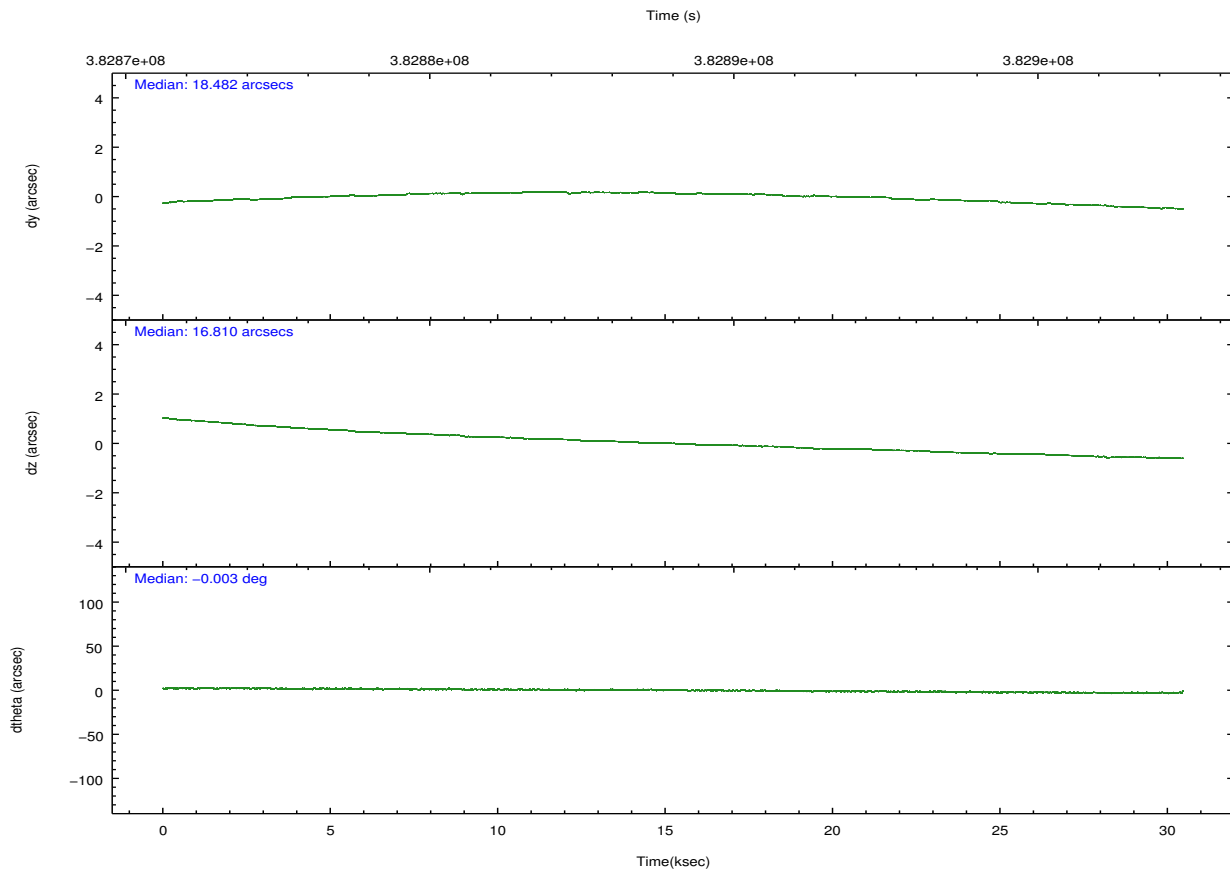
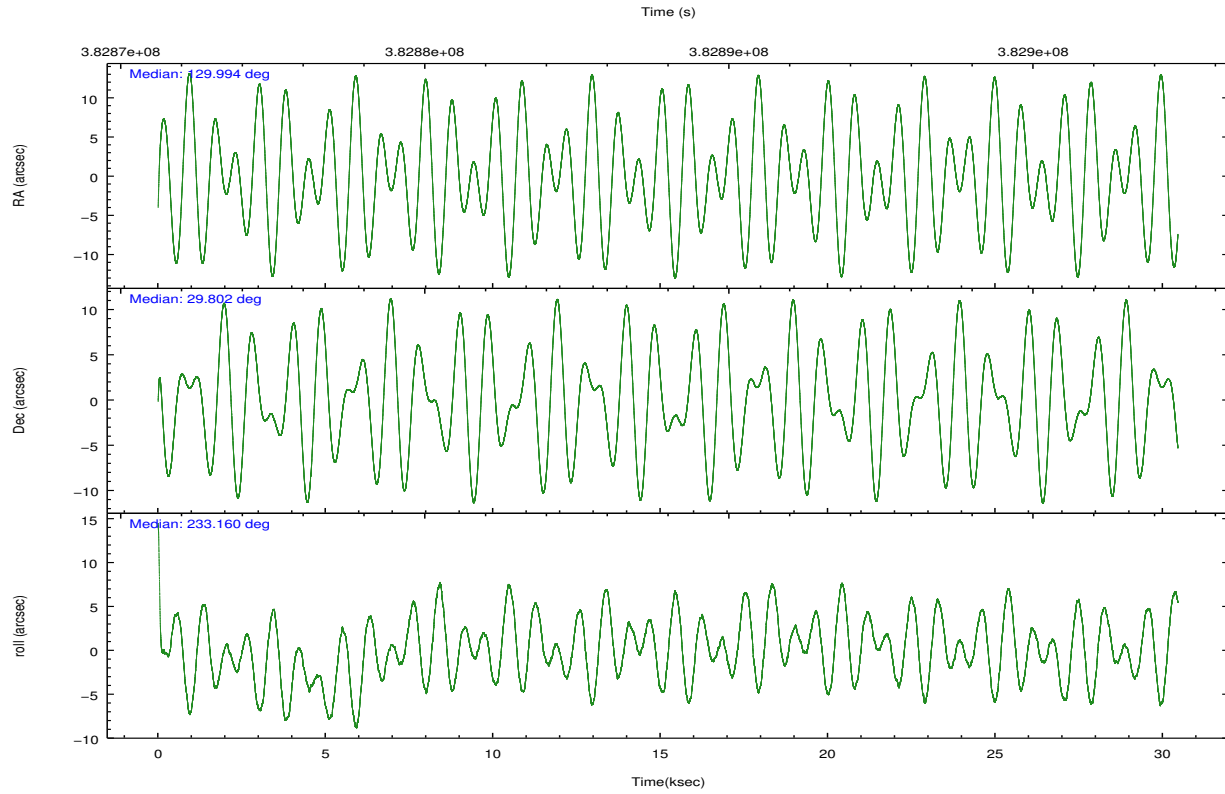
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	9559	8949	9979	12936	25107
	3%	3%	3%	4%	7%
grade 1 events	147	147	135	378	281
	0%	0%	0%	0%	0%
grade 2 events	6234	5508	6395	28451	20121
	2%	2%	2%	9%	6%
grade 3 events	2614	2885	2916	12621	8929
	1%	1%	1%	4%	2%
grade 4 events	2844	2749	3025	12302	8180
	1%	1%	1%	4%	2%
grade 5 events	9204	10927	11367	31723	16303
	3%	4%	4%	10%	4%
grade 6 events	4949	5195	6270	72857	22932
	1%	2%	2%	23%	6%
grade 7 events	223992	212160	226851	135387	231287
	86%	85%	84%	44%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	129.997427	129.9940987636684	CCD I2 on	O1	Y
[deg] Pointing Dec	29.828942	29.80174896355727	CCD I3 on	O2	Y
[deg] Pointing Roll	233.006253	233.1645378224735	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)	382872950.184000	382871364.66084	CCD S5 on	N	N
Observation start date	2010-02-18T09:34:44	2010-02-18T09:09:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	382903234.184000	382903457.41247	On-chip summing requested	N	N
Observation end date	2010-02-18T17:59:28	2010-02-18T18:04:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



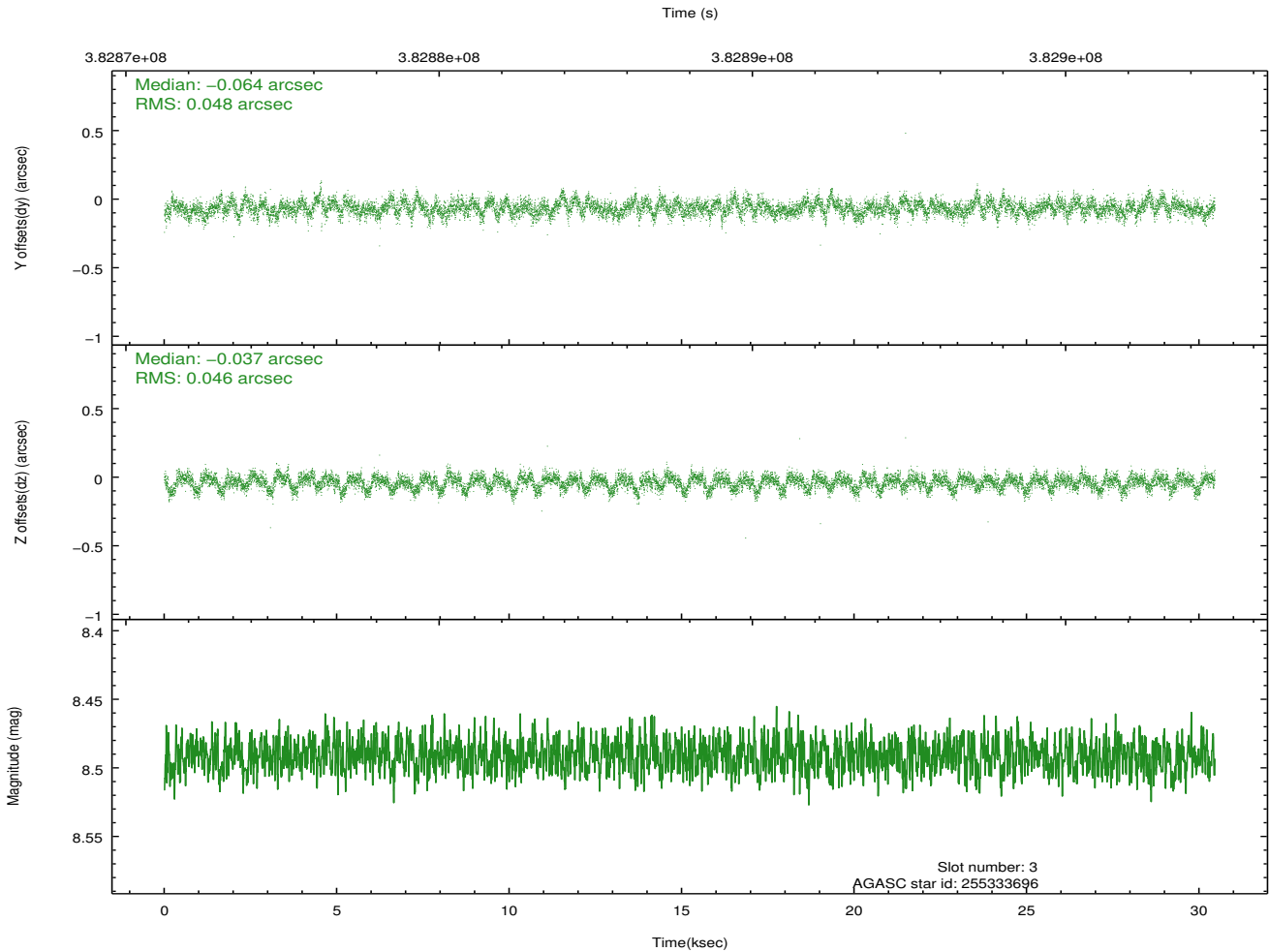
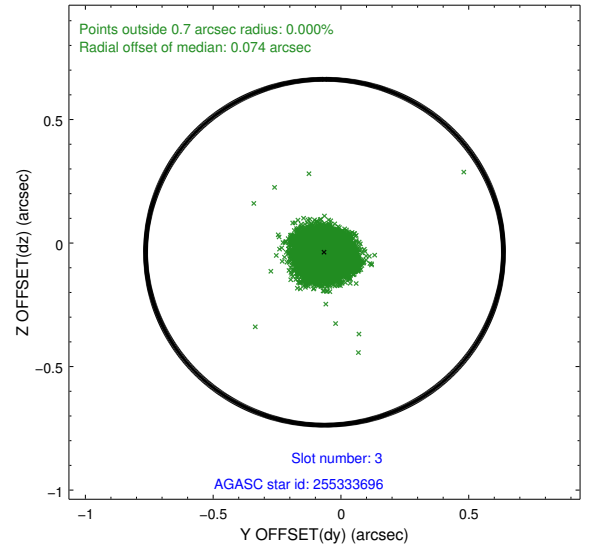
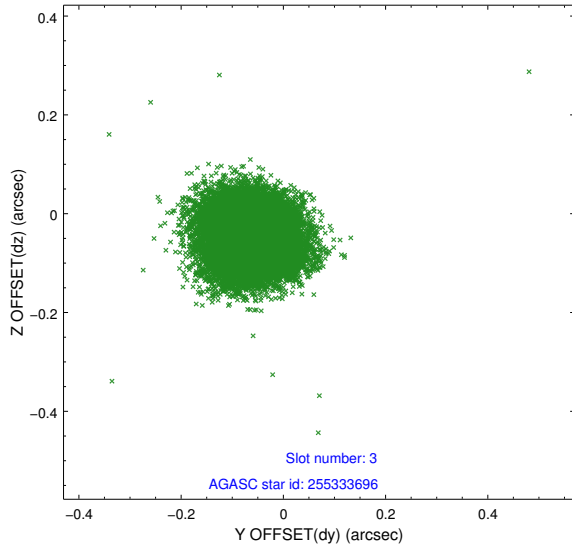


Slot Statistics

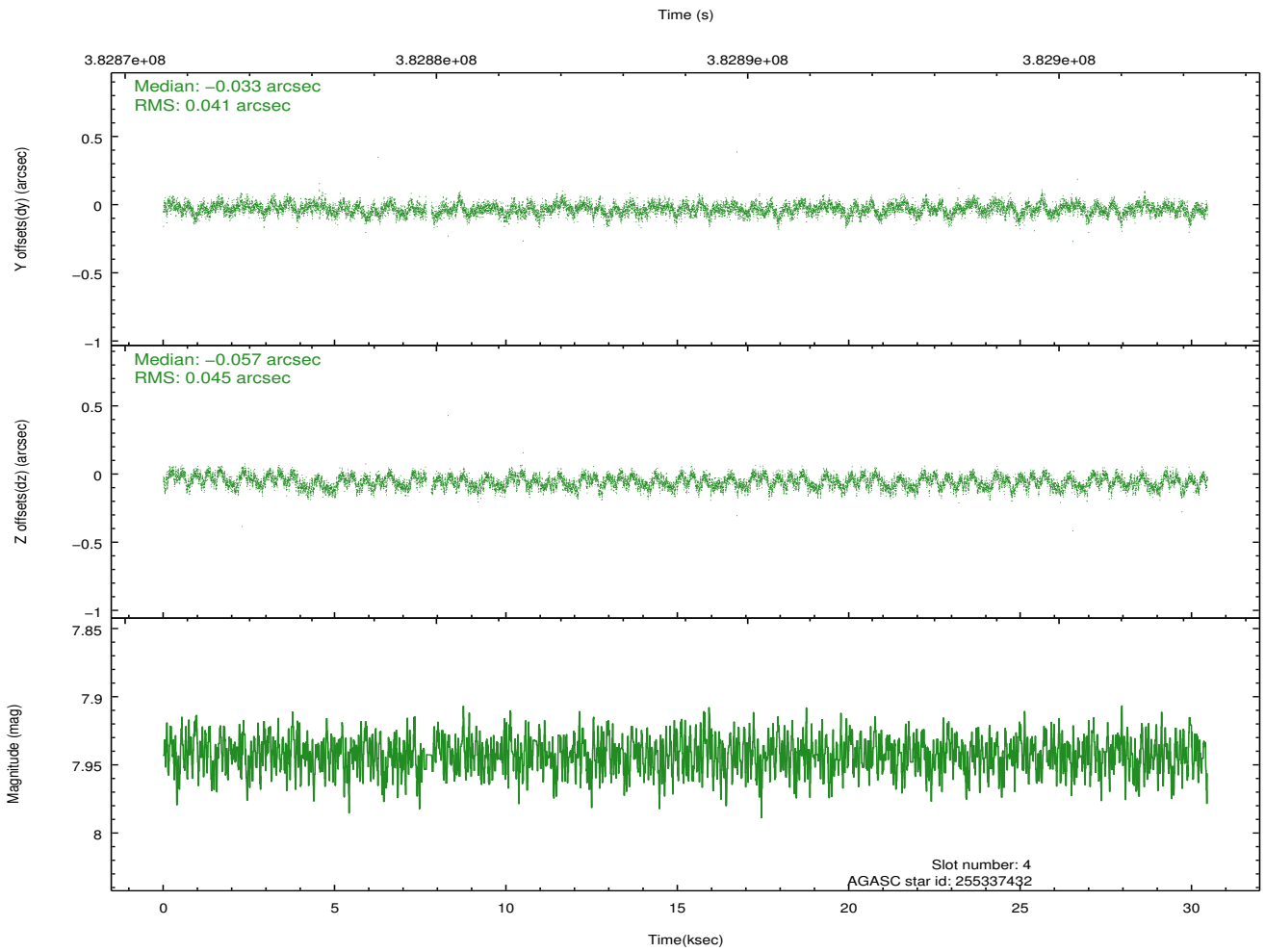
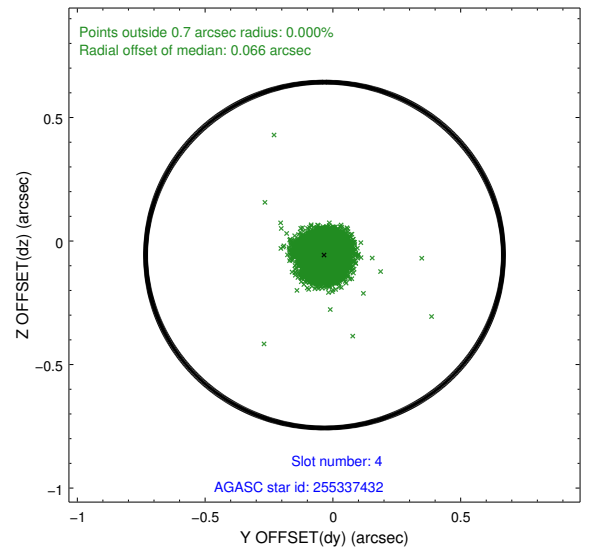
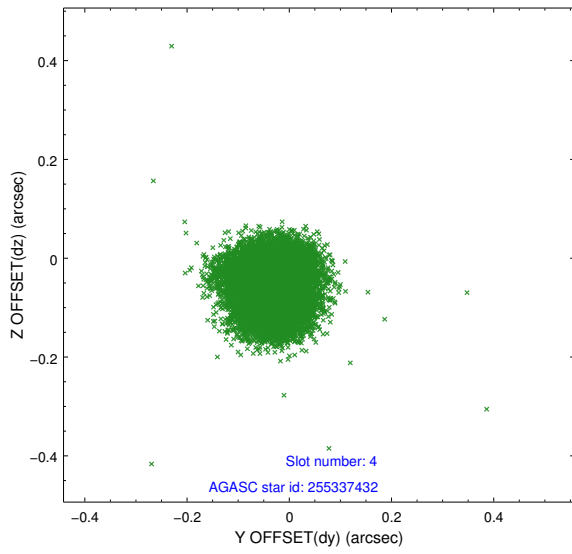
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.93	7428	-0.069	-0.021	0.014	0.031	0.000000	0.000000	-771.59	-1738.25
1	FID	ACIS-S-4	7.00	7428	0.206	0.039	0.007	0.014	0.000000	0.000000	2141.95	170.18
2	FID	ACIS-S-5	7.04	7428	-0.170	-0.010	0.015	0.030	0.000000	0.000000	-1824.42	163.94
3	GUIDE	255333696	8.49	14847	-0.064	-0.037	0.071	0.113	130.413204	29.994468	-1257.31	675.29
4	GUIDE	255337432	7.94	14781	-0.033	-0.057	0.065	0.102	130.226540	29.206439	1356.10	1923.43
5	GUIDE	325588376	8.65	14846	0.056	0.201	0.072	0.115	129.822047	30.497908	-1595.97	-1883.48
6	GUIDE	325597432	9.04	14852	0.080	-0.092	0.095	0.150	129.545418	30.018886	300.03	-1538.47
7	GUIDE	255332544	8.63	14842	-0.040	-0.009	0.070	0.113	130.024735	29.283160	1517.84	1251.04

2.4 Star Slots

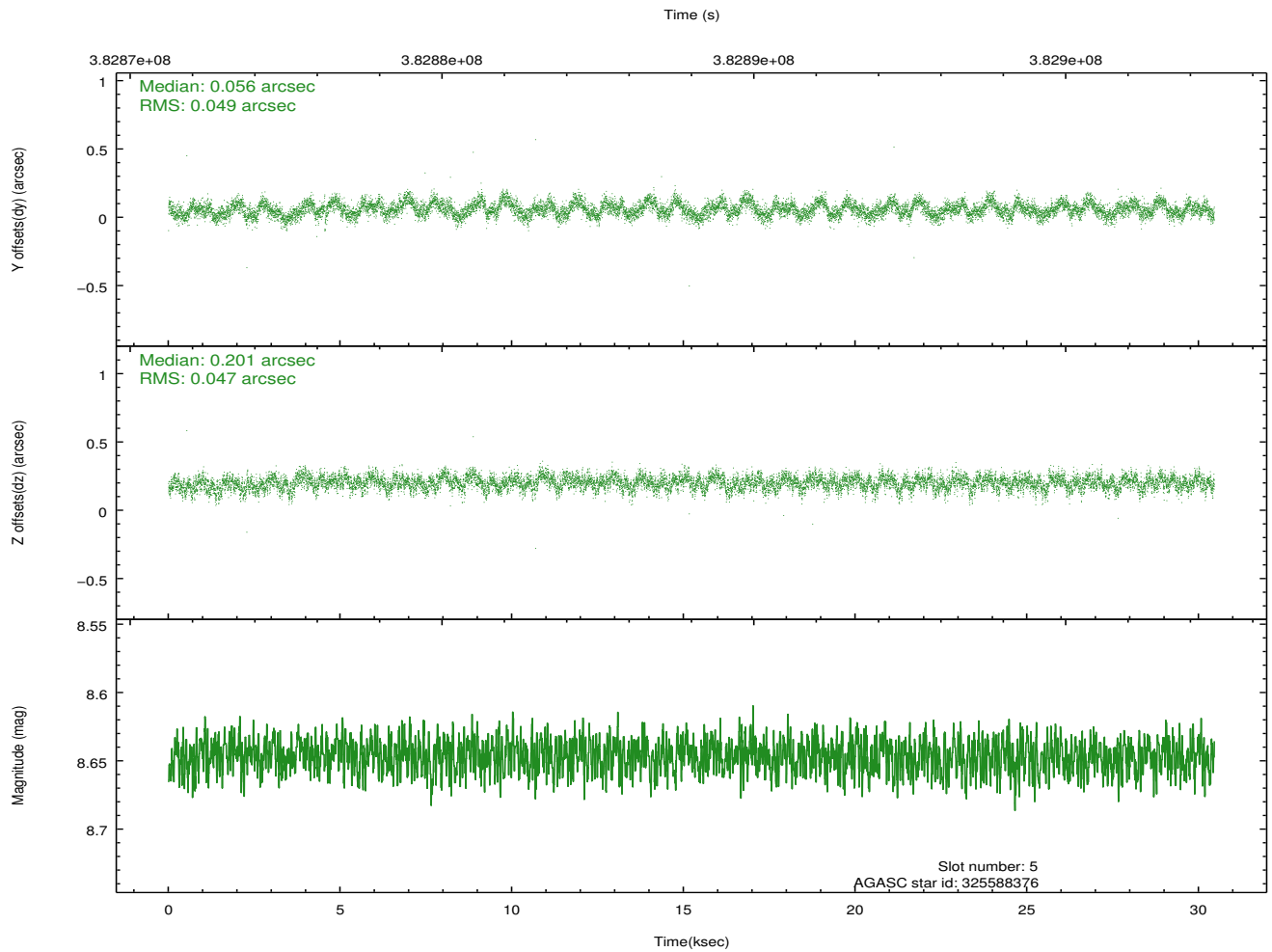
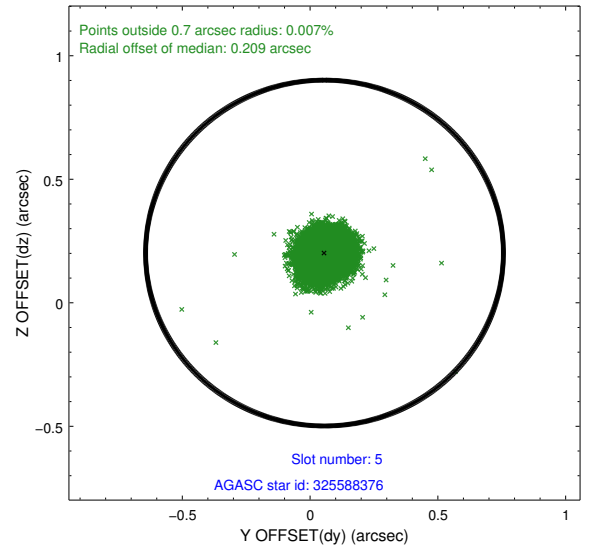
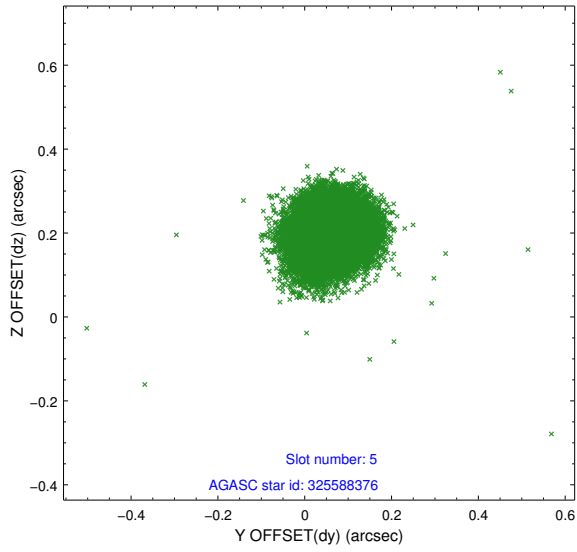
2.4.1 Slot 3



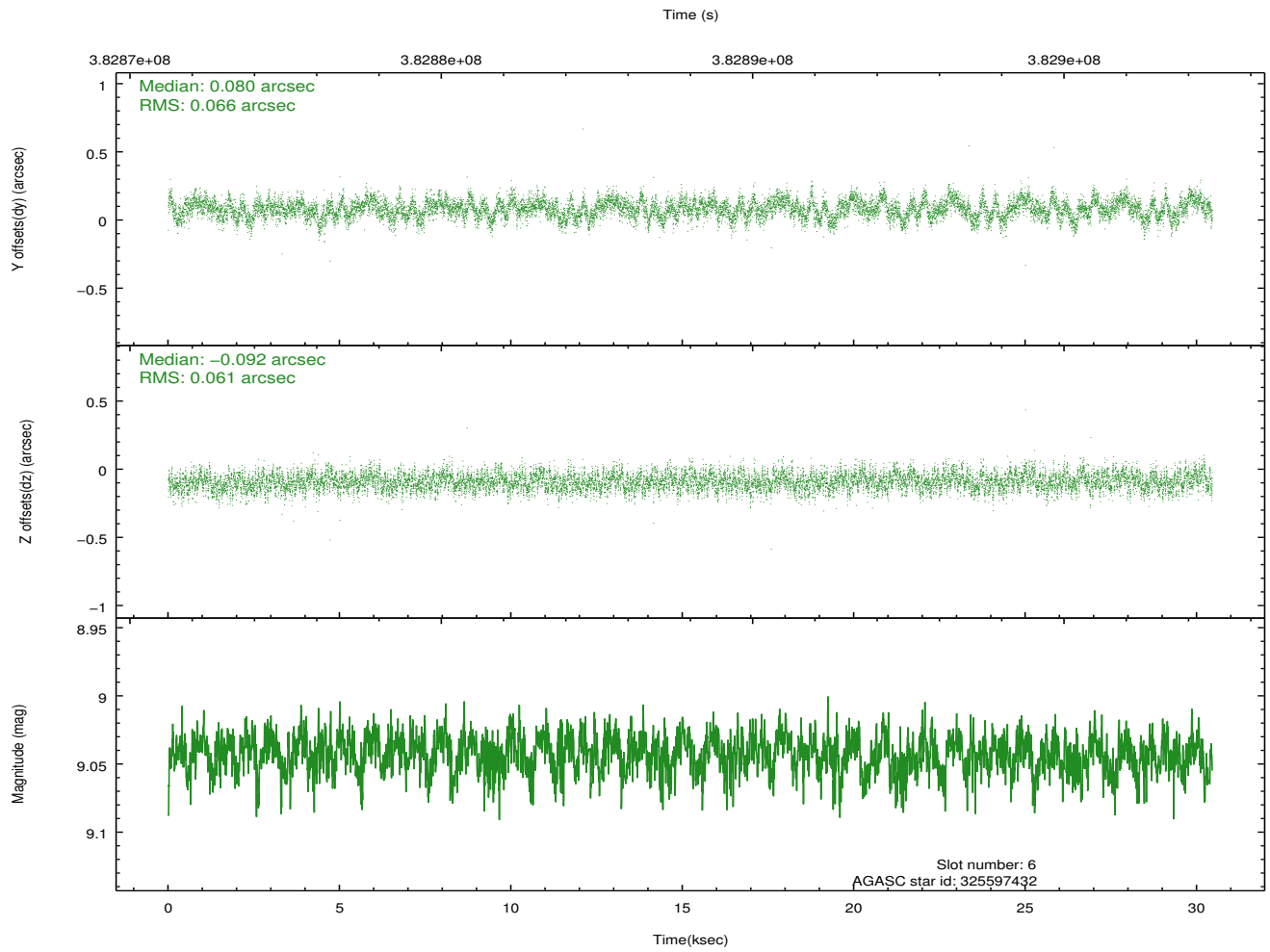
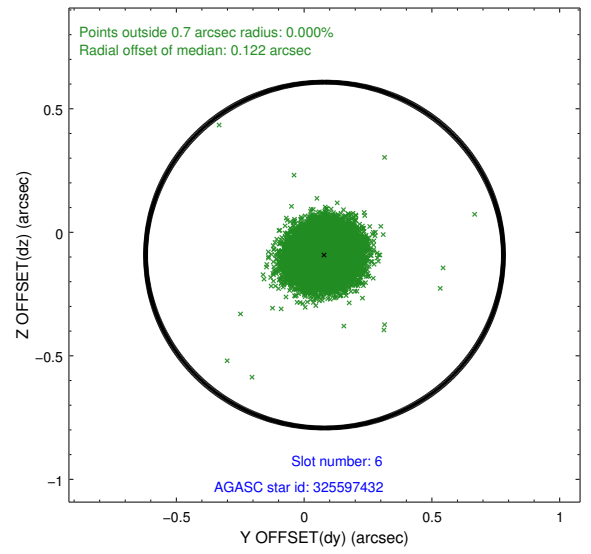
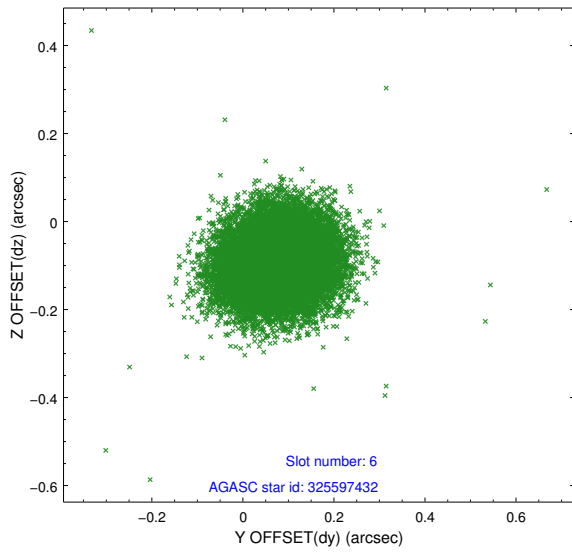
2.4.2 Slot 4



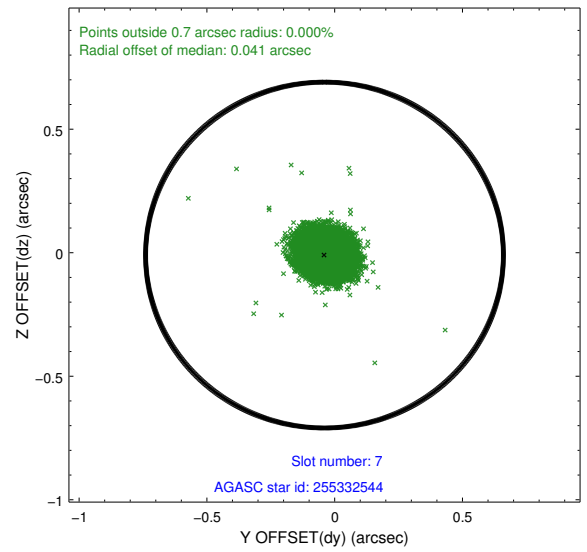
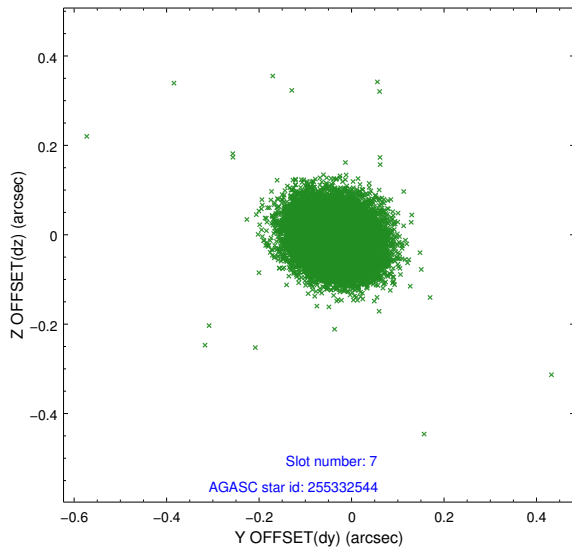
2.4.3 Slot 5



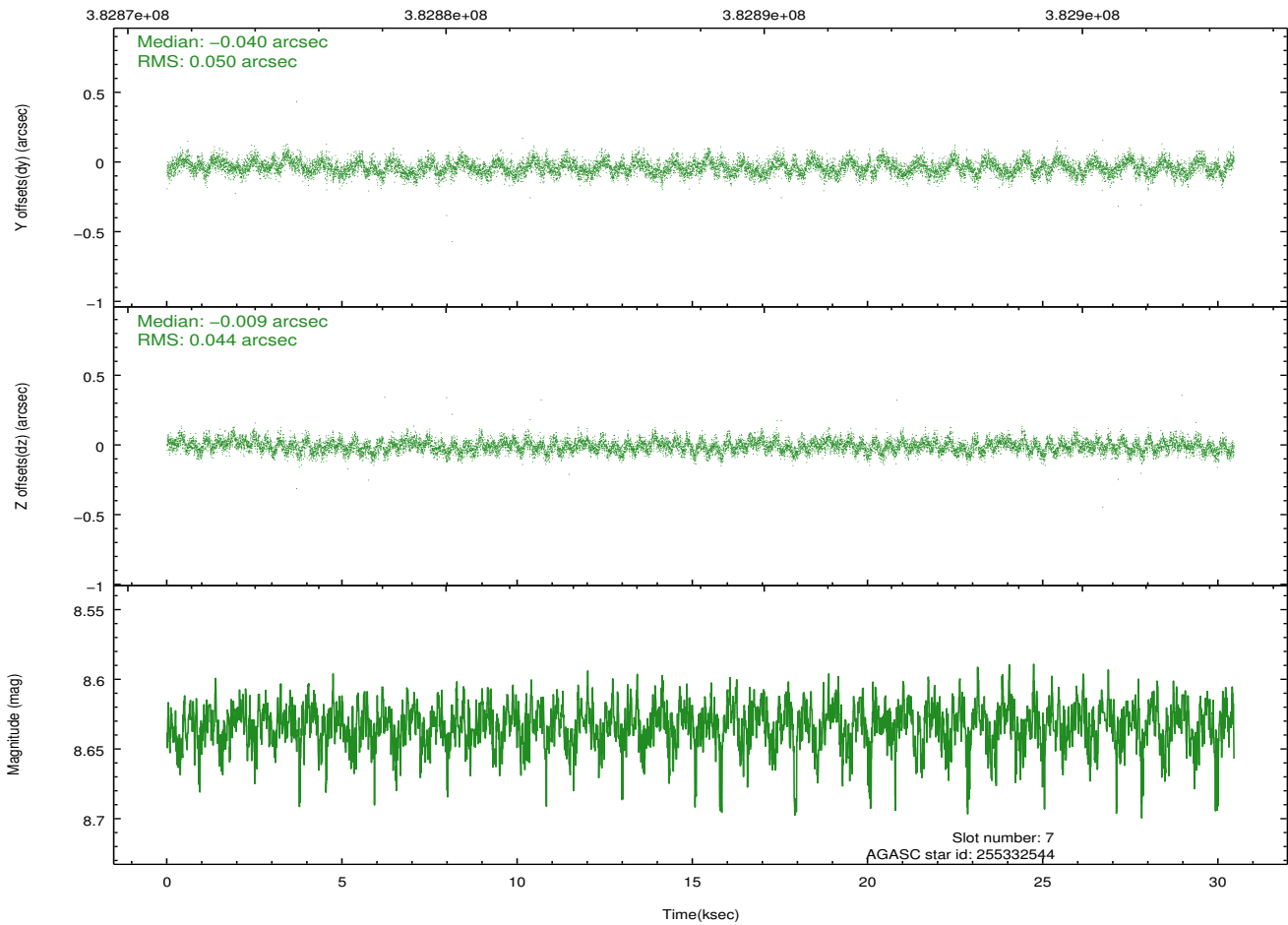
2.4.4 Slot 6



2.4.5 Slot 7

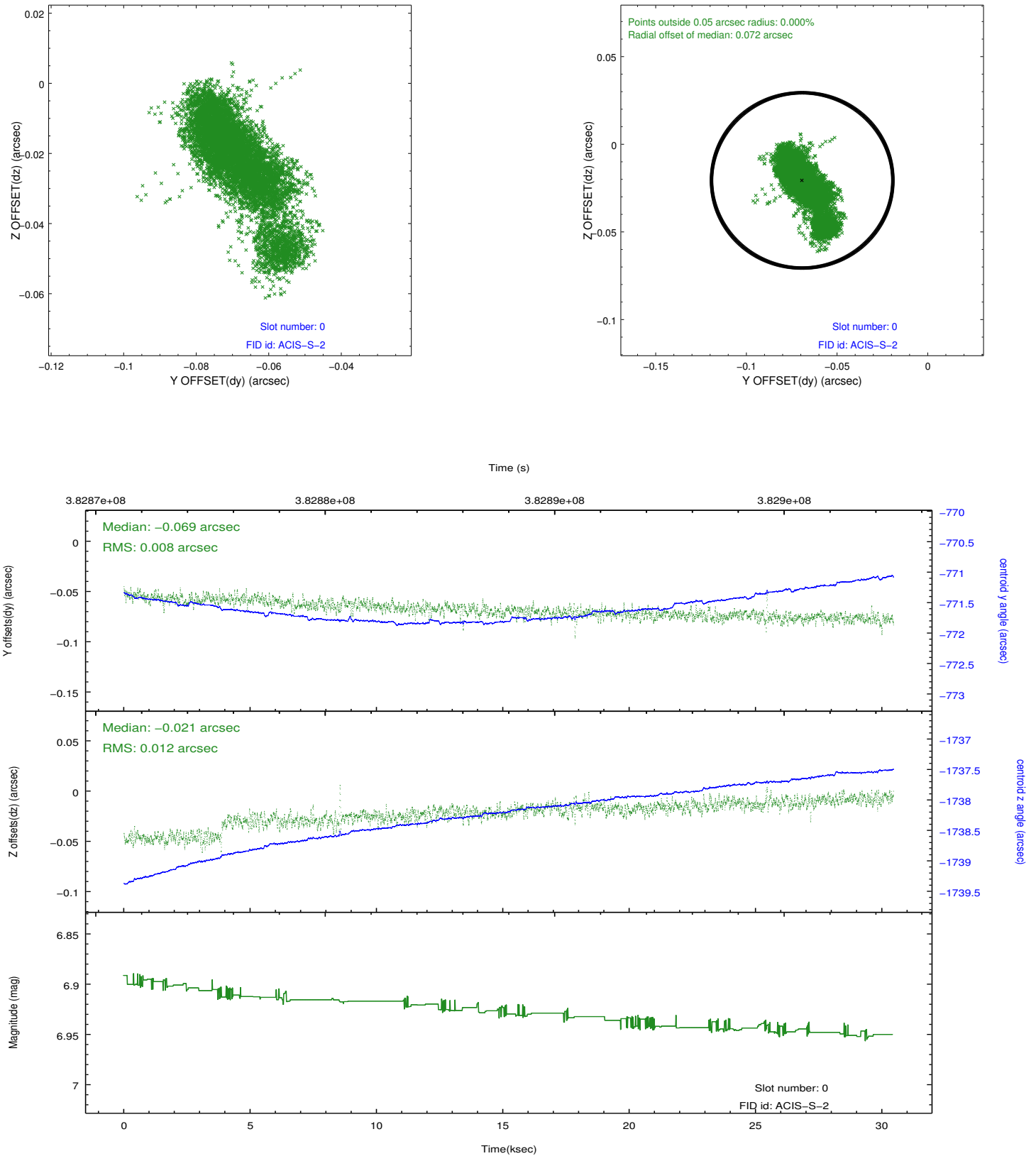


Time (s)

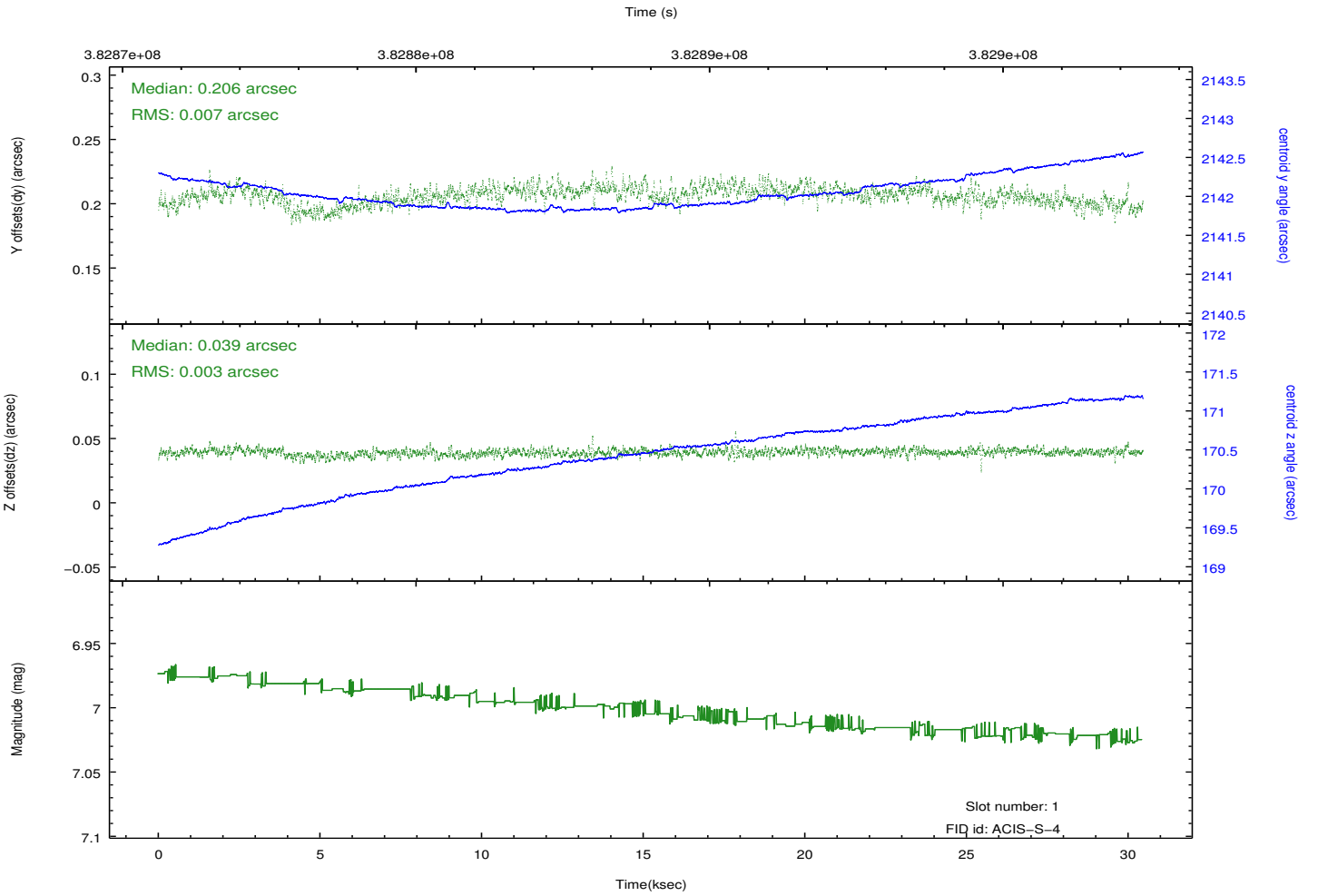
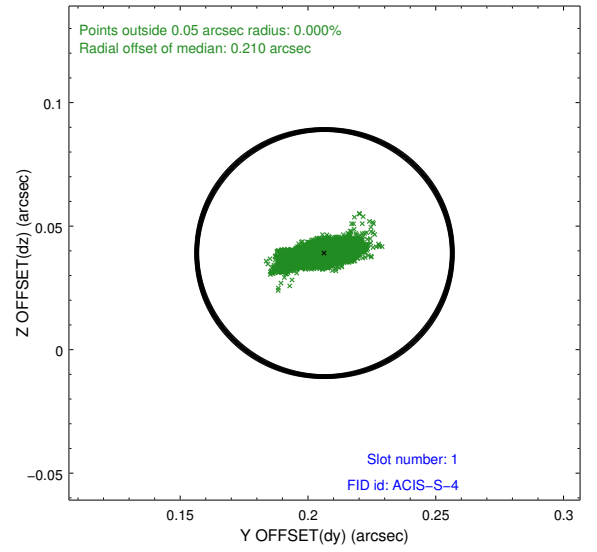
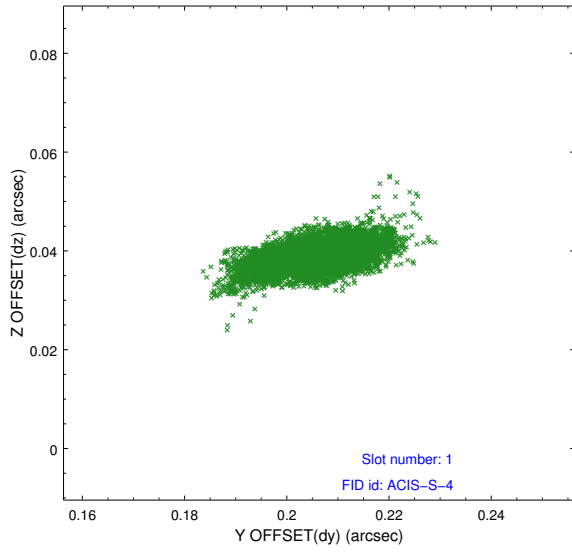


2.5 FID Slots

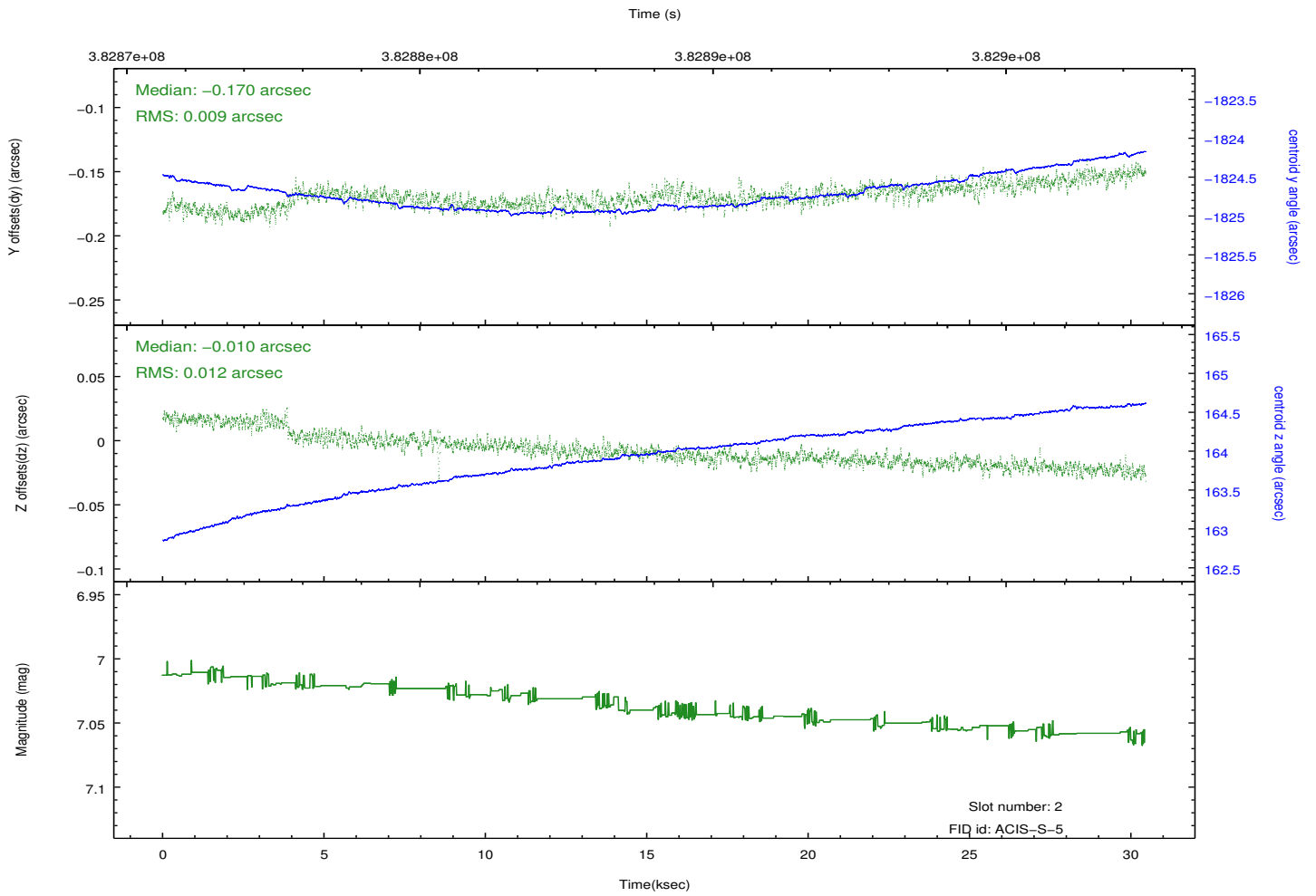
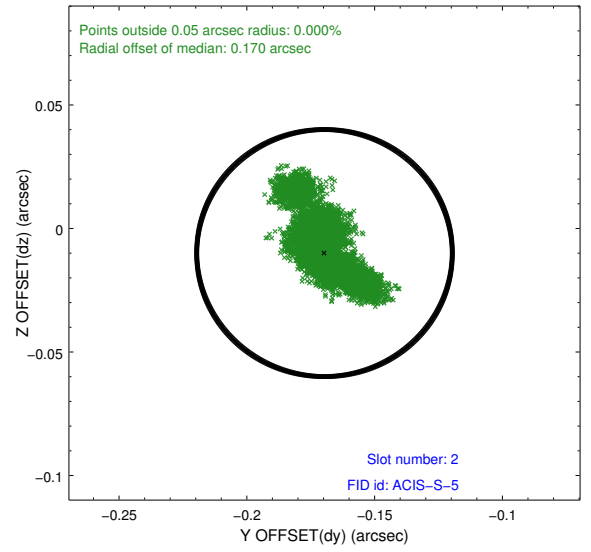
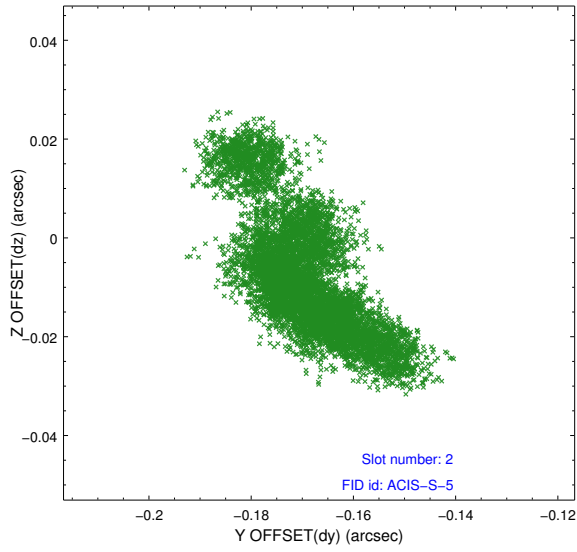
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.451300234199

A.2 Comments