

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11561 - L2 Version 2
Chandra X-Ray Center

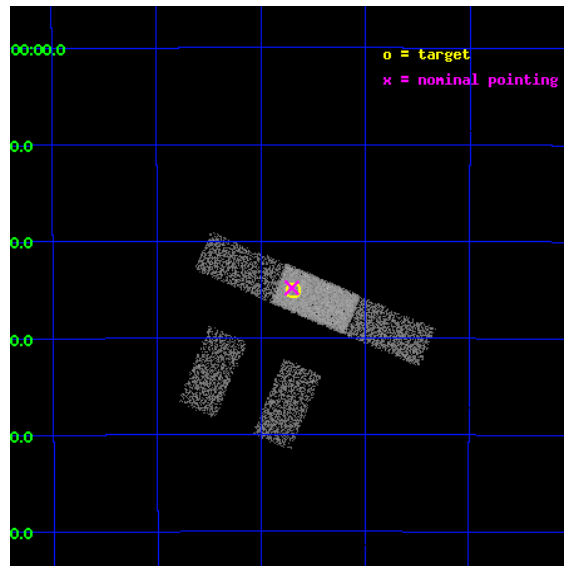
L2 Processing Date : Jul 4 2012

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

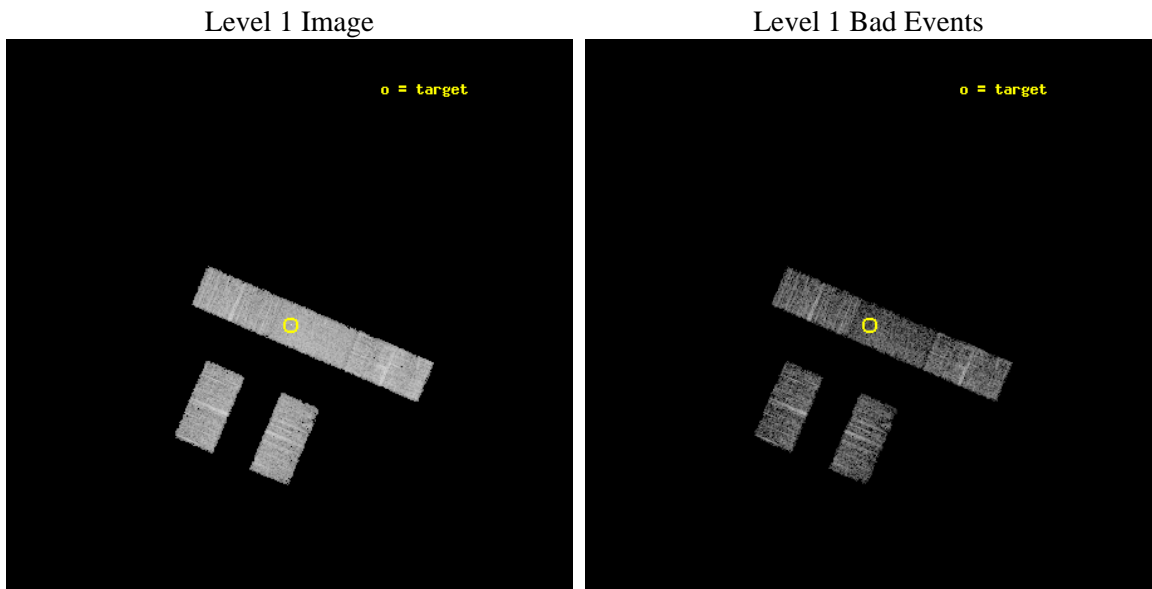
seq_num	702147	Sequence number
obs_id	11561	Observation id
title	The Size of Quasar Non-Thermal/X-ray Emission Regions	Proposal tit
observer	Prof. Christopher Kochanek	Principal investigator
object	QJ0158-4325	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	29.6725	Observer's specified target RA [deg]
dec_targ	-43.417833	Observer's specified target Dec [deg]
ra_nom	29.676196139662	Nominal RA [deg]
dec_nom	-43.413816584834	Nominal Dec [deg]
roll_nom	23.01859519238	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5063.7488780022	Sum of GTIs [s]
livetime	4944.3855928661	Livetime [s]
ontime2	5063.584717989	Sum of GTIs [s]
ontime3	5063.6667979956	Sum of GTIs [s]
ontime6	5063.7078379989	Sum of GTIs [s]
ontime7	5063.7488780022	Sum of GTIs [s]
ontime8	5063.6257579923	Sum of GTIs [s]
l2events	18646	Number of level 2 events



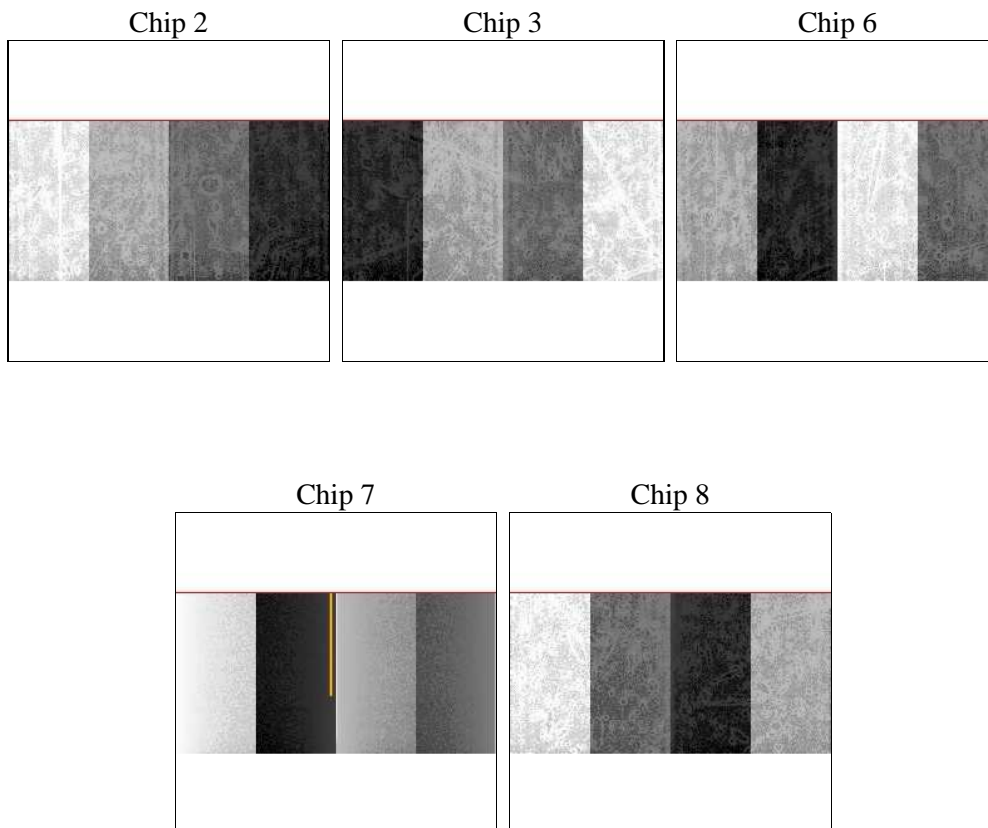
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5063.7488780022	Sum of GTIs [s]
caldbver	4.5.0	 	ontime2	5063.584717989	Sum of GTIs [s]
date	2012-07-04T15:39:58	Date and time of file creation	ontime3	5063.6667979956	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	5063.7078379989	Sum of GTIs [s]
			ontime7	5063.7488780022	Sum of GTIs [s]
			ontime8	5063.6257579923	Sum of GTIs [s]
			l1events	110159	Number of level 1 events

2.1.4 Events

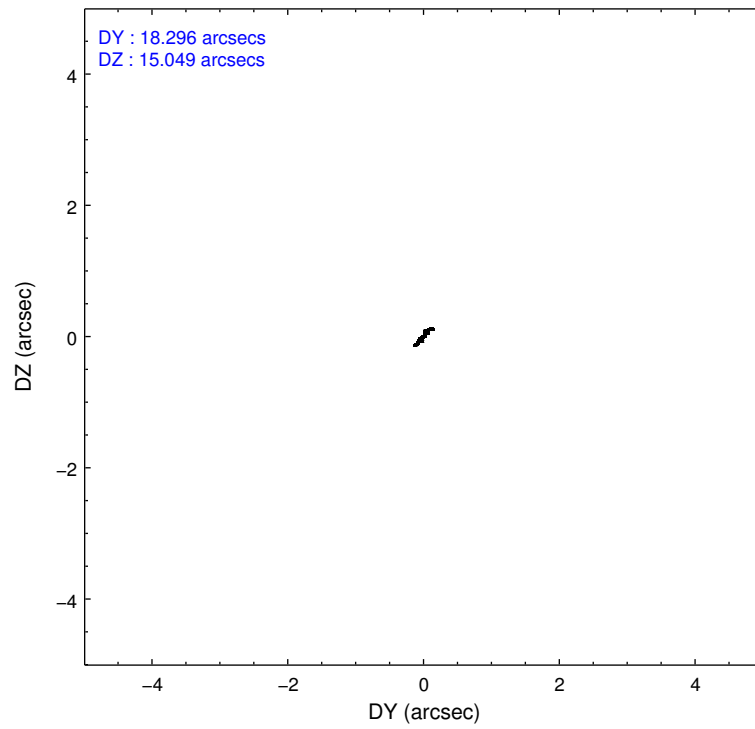
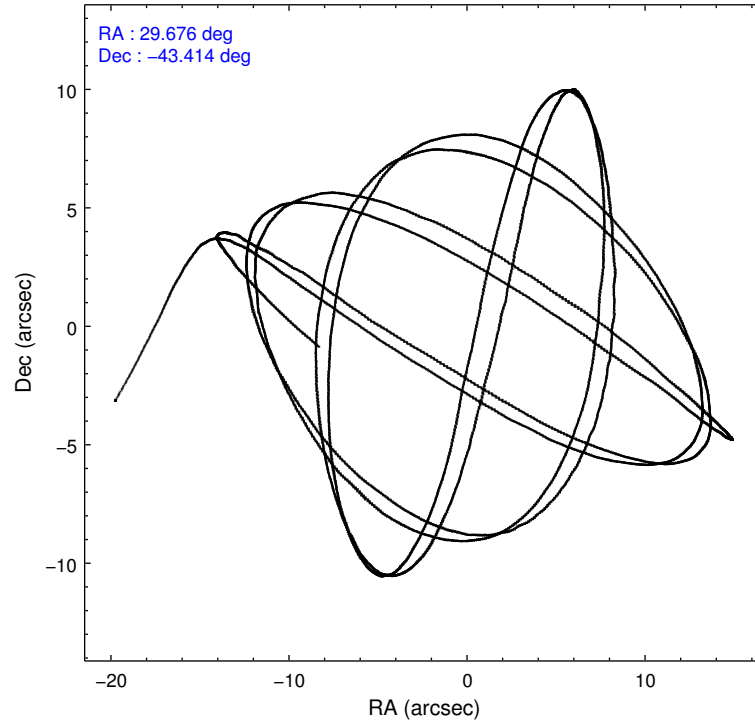
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	19324	18483	20973	24279	27100
rejected events	17213	16454	18758	13006	20149
rejected %	89%	89%	89%	53%	74%

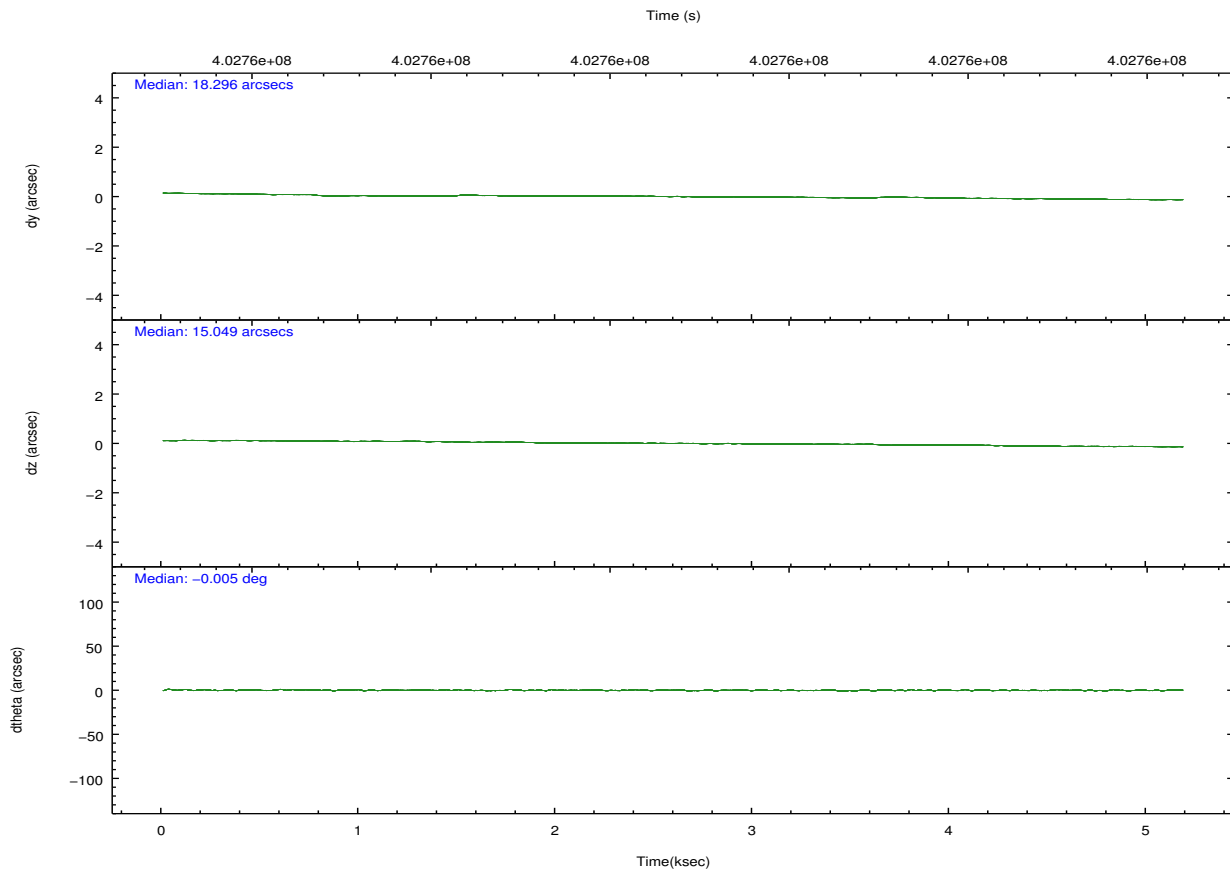
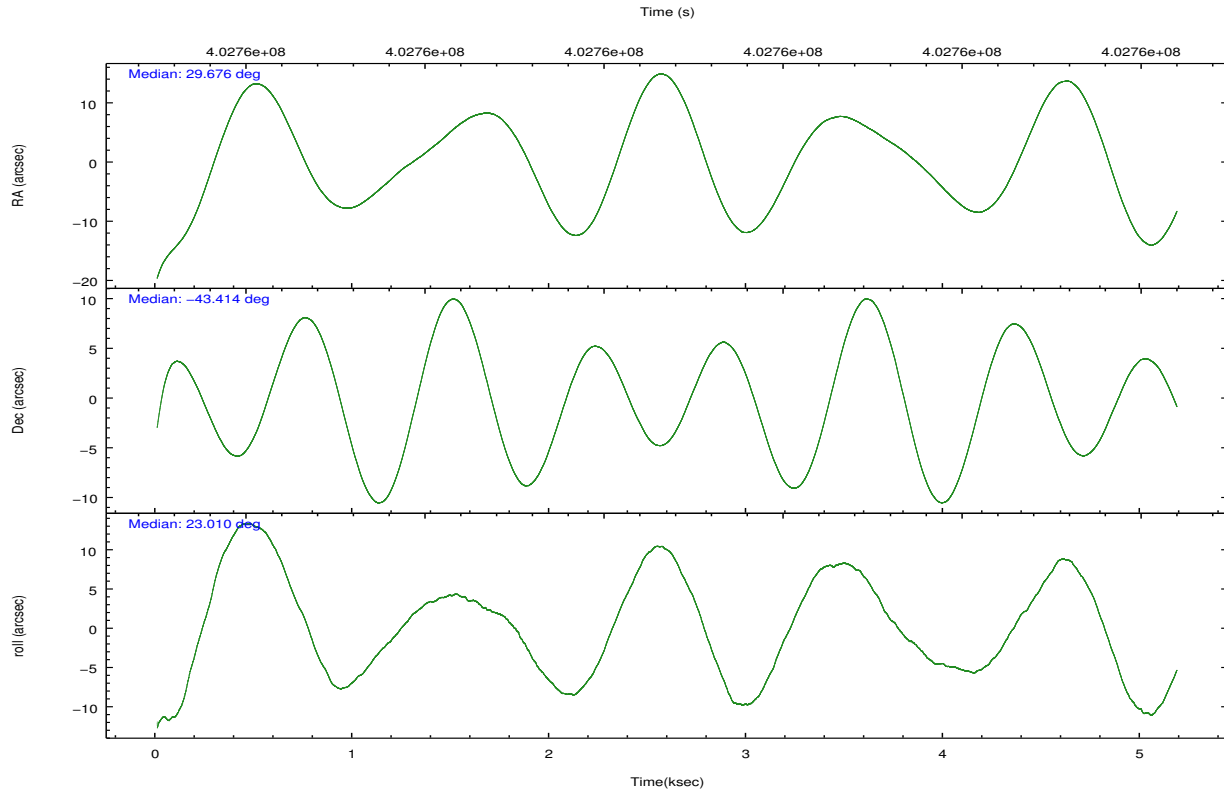
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	722	691	740	1212	1905
	3%	3%	3%	4%	7%
grade 1 events	5	9	15	38	16
	0%	0%	0%	0%	0%
grade 2 events	475	433	508	2290	1686
	2%	2%	2%	9%	6%
grade 3 events	258	253	234	1147	673
	1%	1%	1%	4%	2%
grade 4 events	306	264	278	1105	644
	1%	1%	1%	4%	2%
grade 5 events	657	896	847	2574	1267
	3%	4%	4%	10%	4%
grade 6 events	352	389	456	5526	2049
	1%	2%	2%	22%	7%
grade 7 events	16549	15548	17895	10387	18860
	85%	84%	85%	42%	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	29.654117	29.67619613966171	CCD I2 on	O4	Y
[deg] Pointing Dec	-43.435936	-43.41381658483363	CCD I3 on	O3	Y
[deg] Pointing Roll	22.846785	23.0185951923804	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	O1	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	O2	Y
[s] Observation start time (MET)	402757952.184000	402757028.3377	CCD S5 on	N	N
Observation start date	2010-10-06T13:11:26	2010-10-06T12:57:08	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	402762952.184000	402763769.76304	On-chip summing requested	N	N
Observation end date	2010-10-06T14:34:46	2010-10-06T14:49:29	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.7

2.3 Aspect



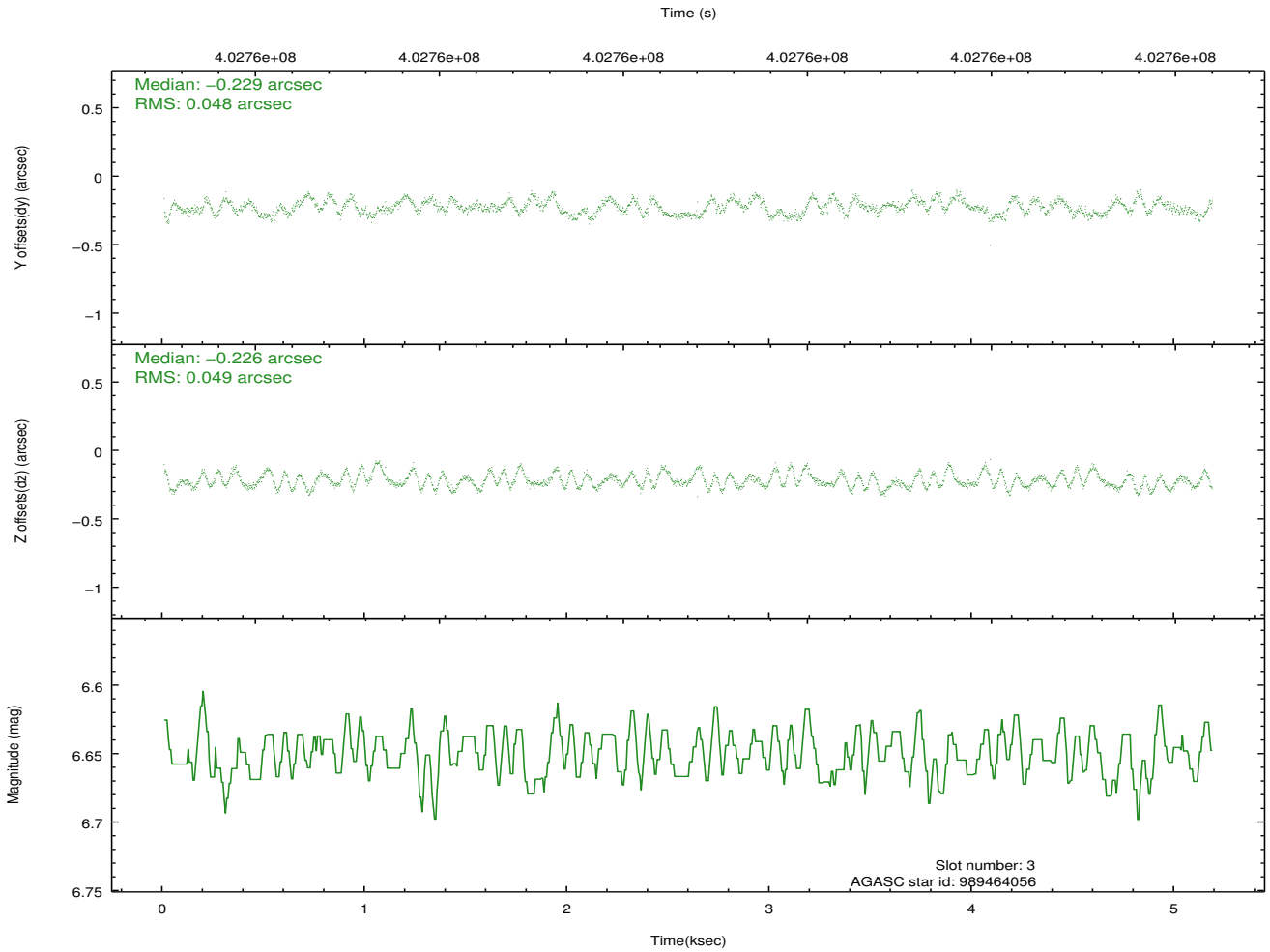
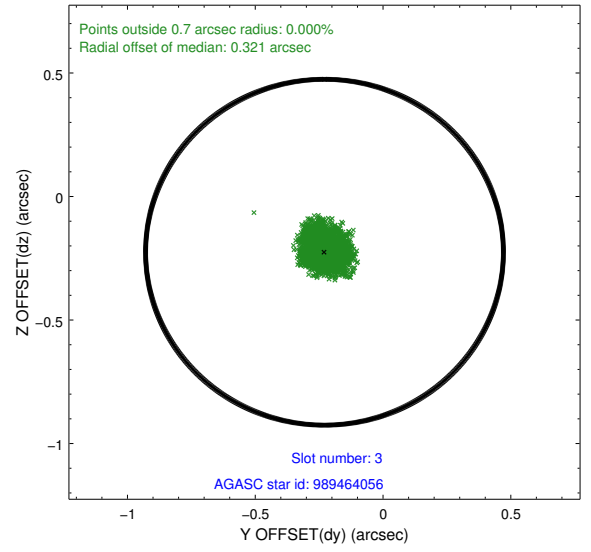
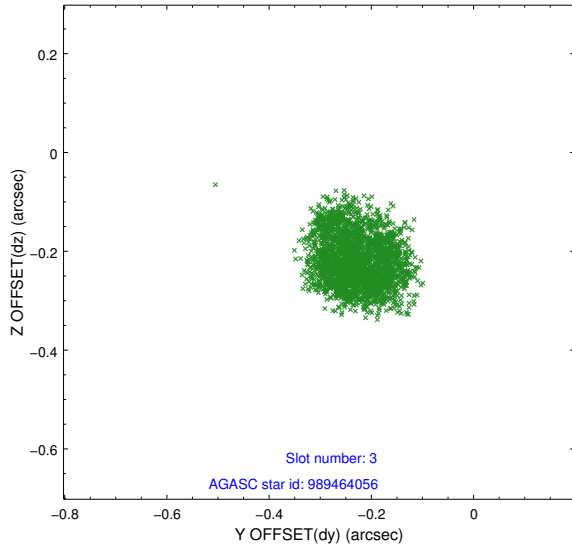


Slot Statistics

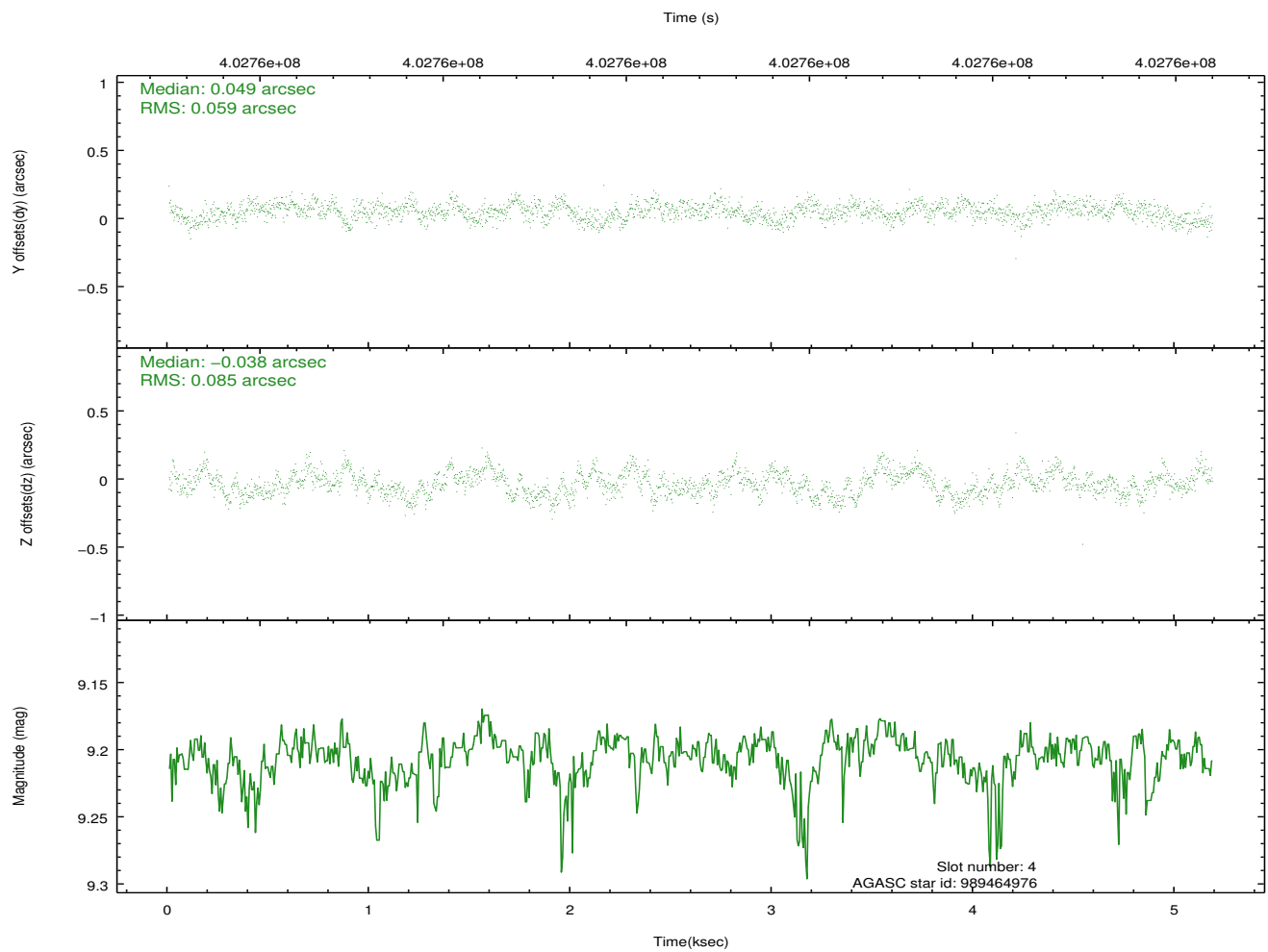
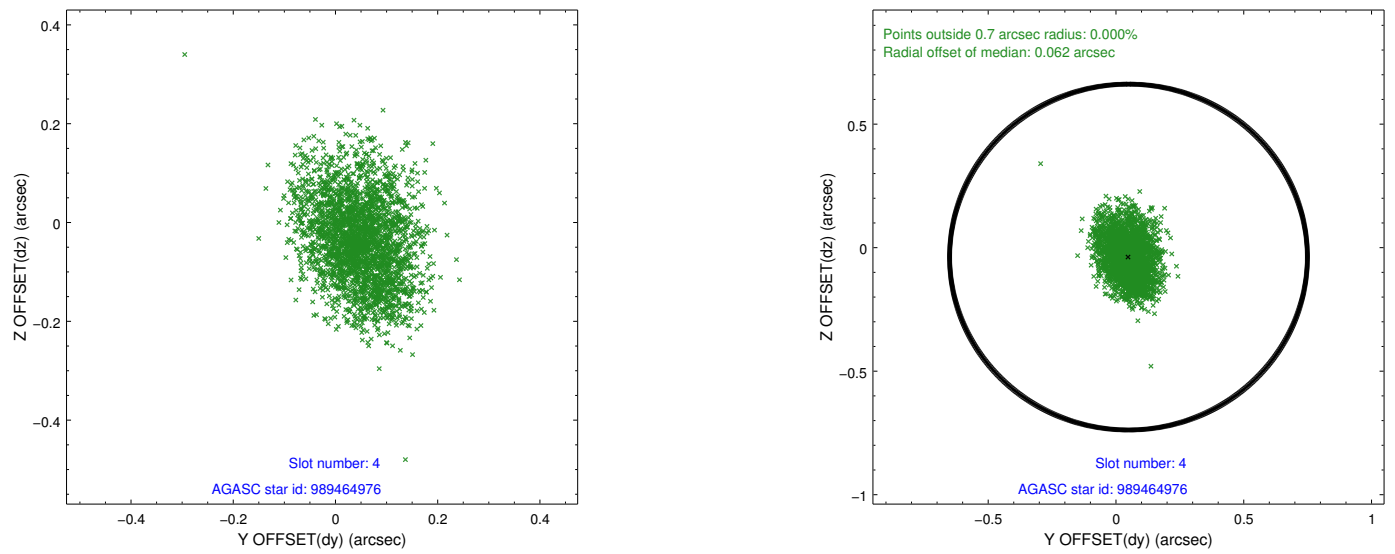
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.92	1264	-0.094	-0.030	0.006	0.010	0.000000	0.000000	-771.42	-1736.47
1	FID	ACIS-S-4	7.00	1264	0.240	0.053	0.006	0.011	0.000000	0.000000	2141.63	170.92
2	FID	ACIS-S-5	7.02	1264	-0.177	-0.014	0.006	0.010	0.000000	0.000000	-1822.87	165.81
3	GUIDE	989464056	6.65	2528	-0.229	-0.226	0.074	0.114	29.735893	-42.949136	878.82	1530.98
4	GUIDE	989464976	9.21	2524	0.049	-0.038	0.110	0.178	28.960994	-43.047006	-1139.34	1991.79
5	GUIDE	989467528	8.19	2525	0.080	0.021	0.074	0.113	29.209436	-43.178151	-716.53	1305.91
6	GUIDE	989469232	8.77	2527	-0.008	0.045	0.087	0.137	28.685830	-43.208230	-2029.01	1728.47
7	GUIDE	989470600	9.41	2523	0.106	0.191	0.126	0.201	29.755442	-43.921156	-435.64	-1711.71

2.4 Star Slots

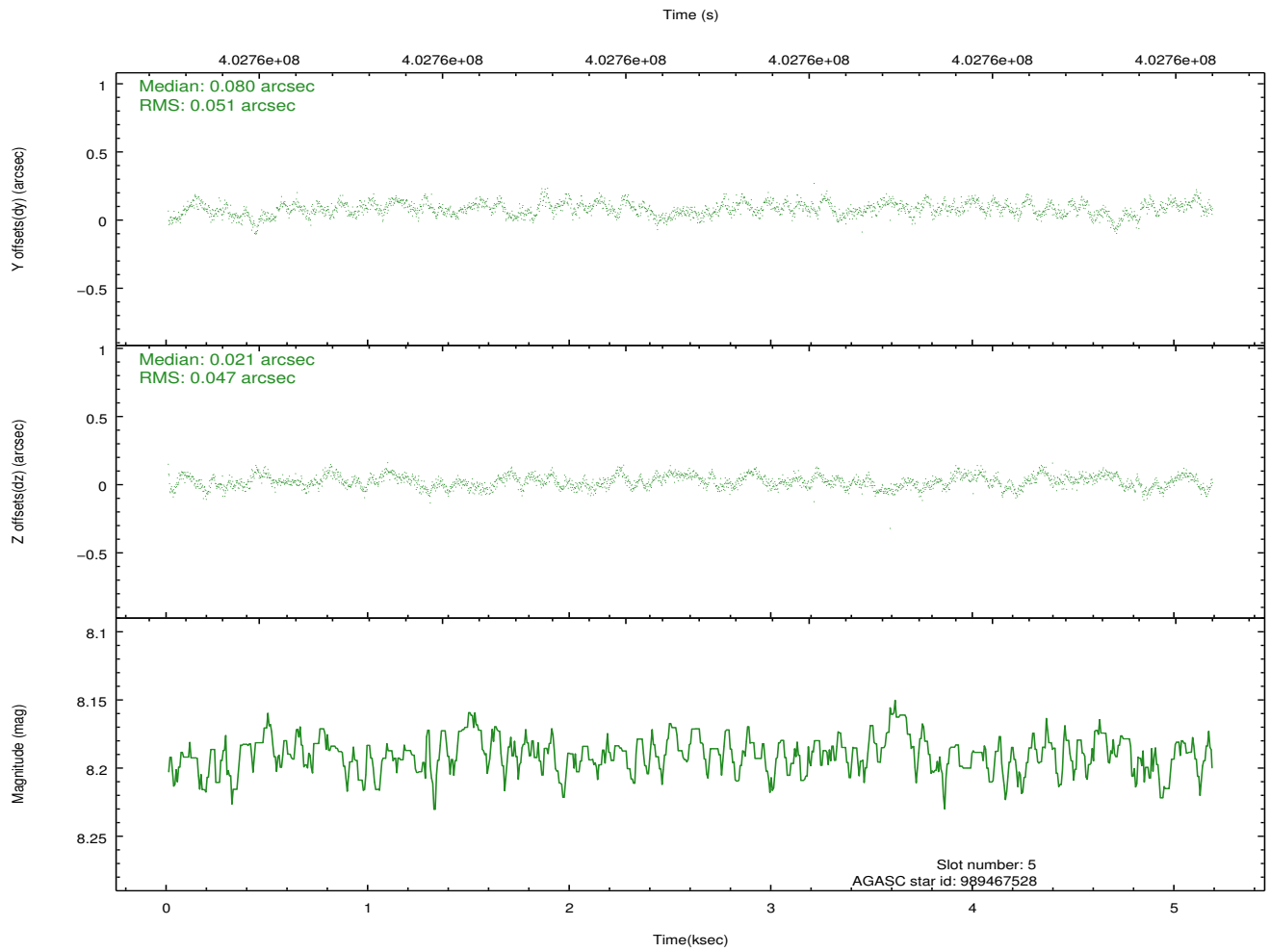
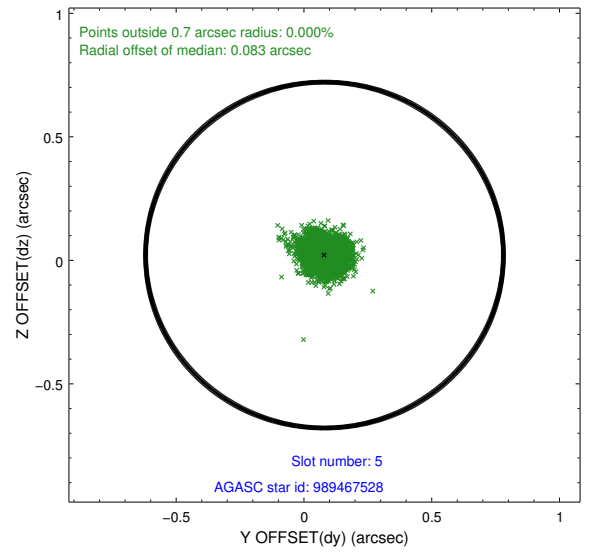
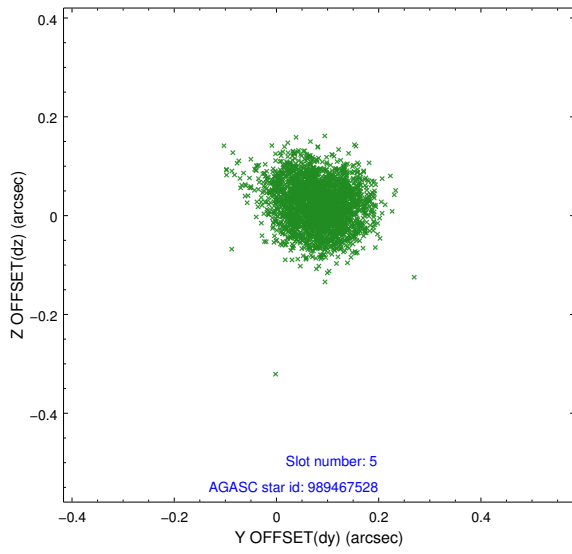
2.4.1 Slot 3



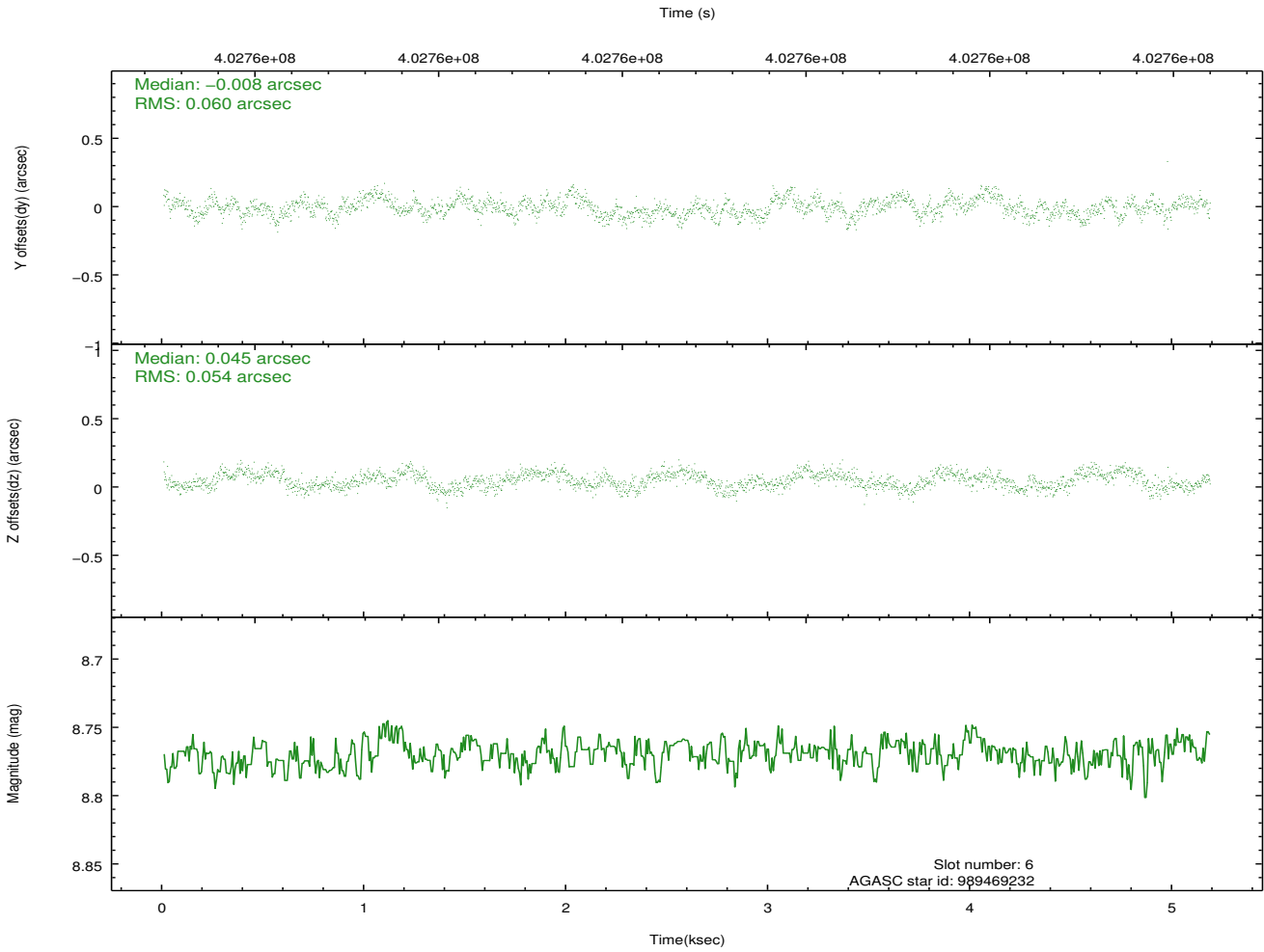
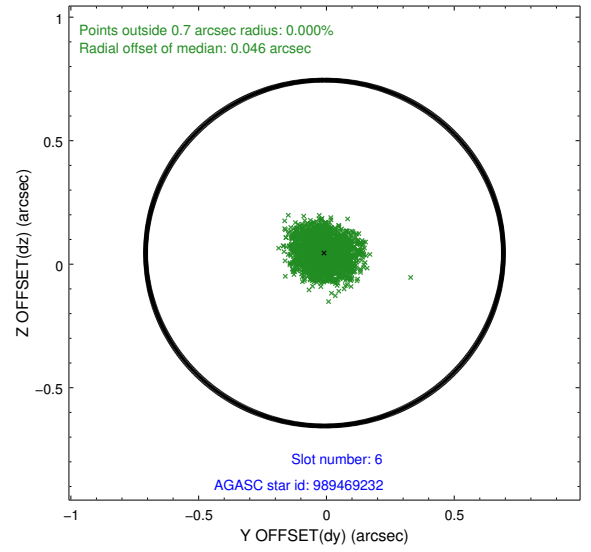
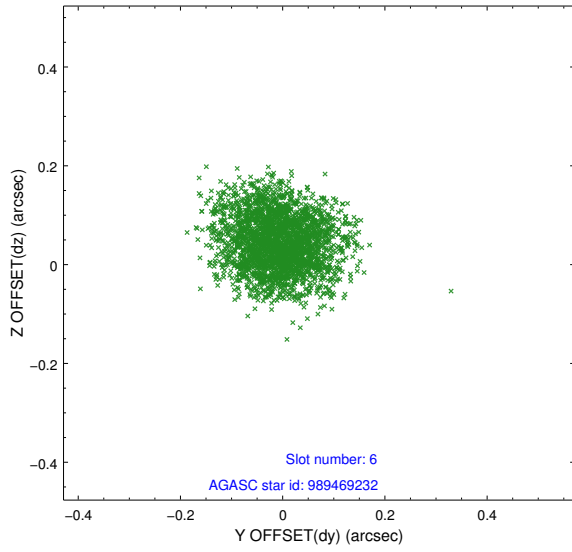
2.4.2 Slot 4



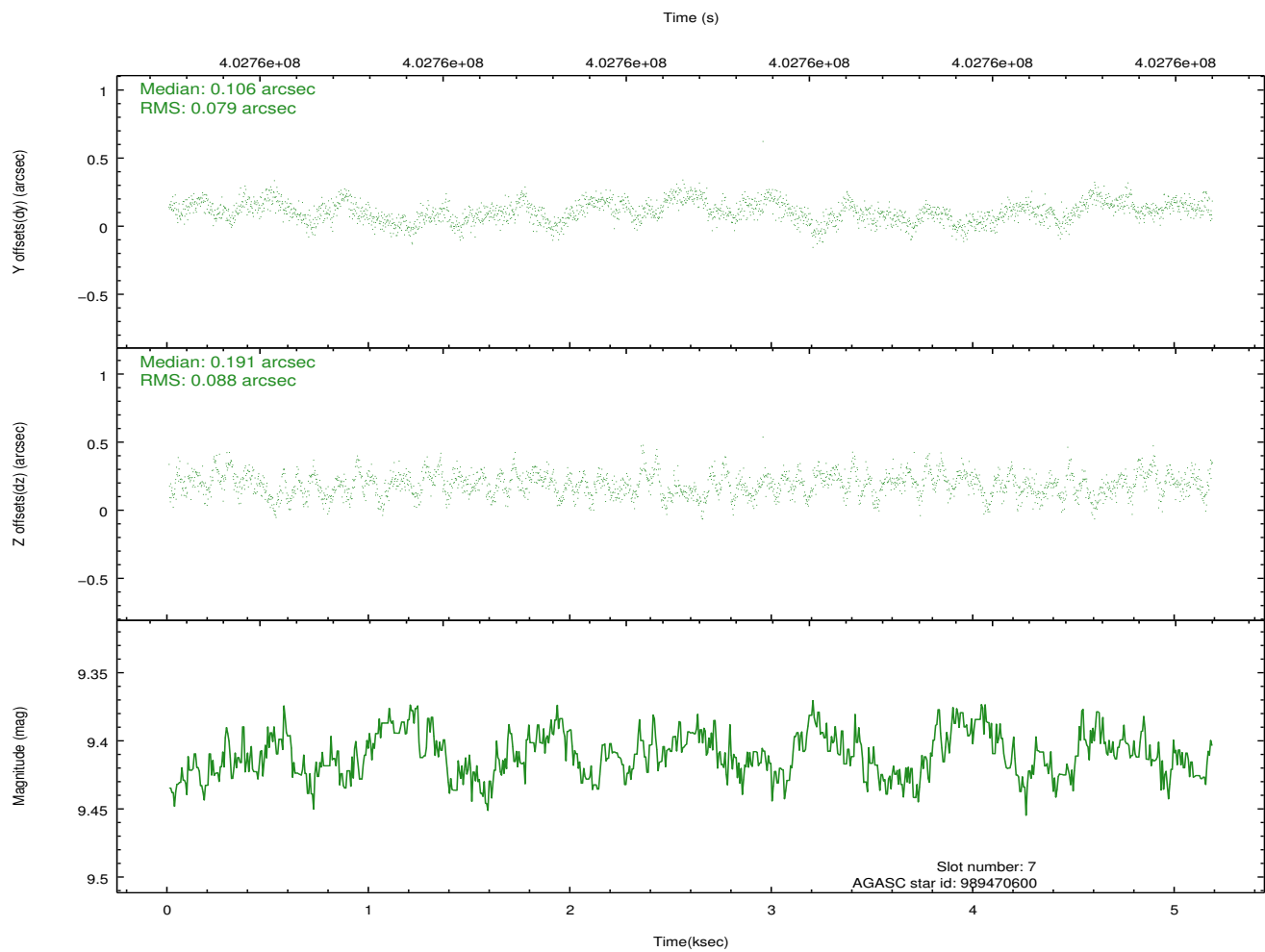
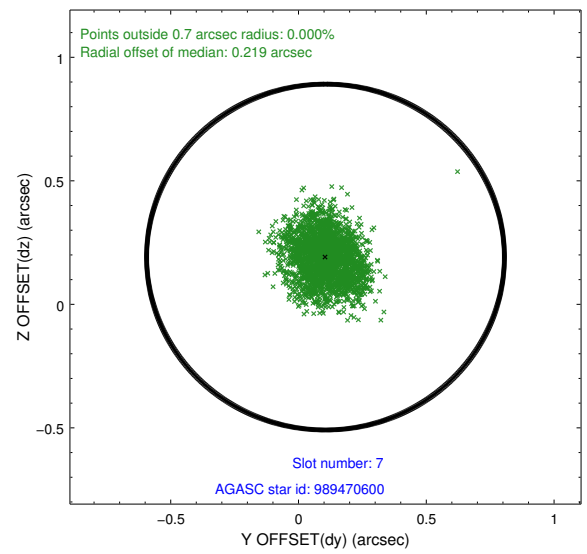
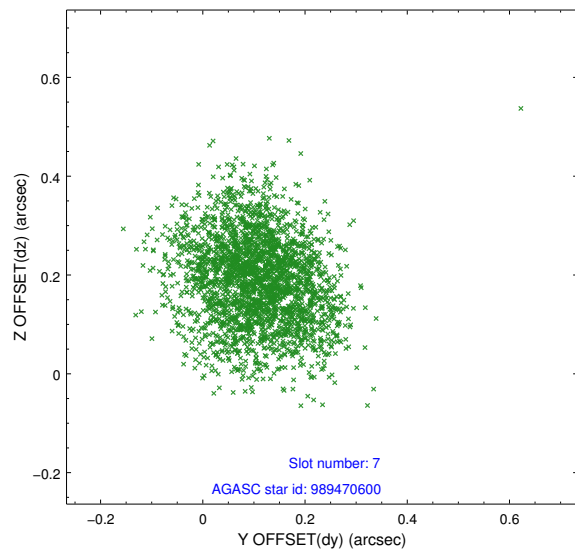
2.4.3 Slot 5



2.4.4 Slot 6

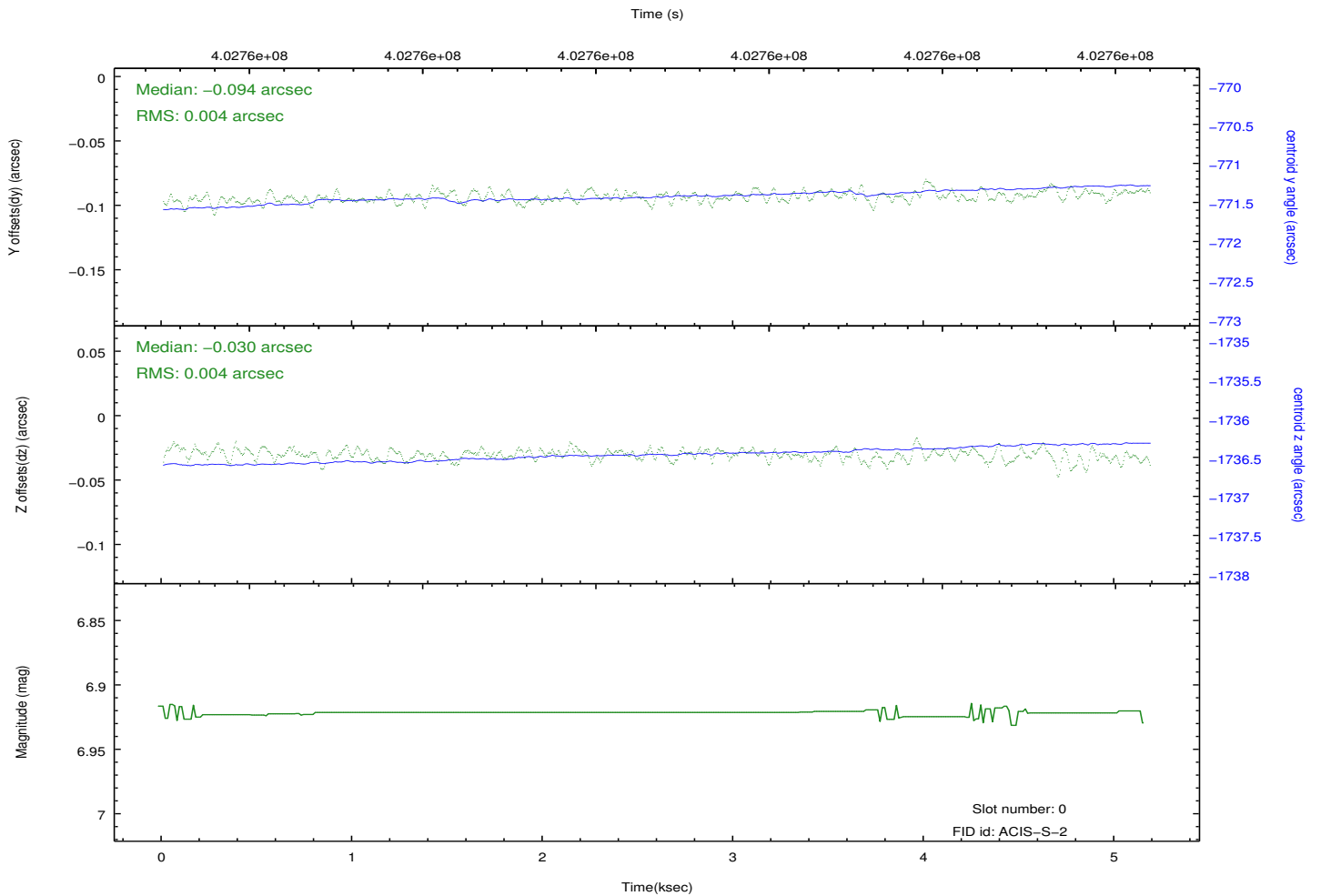
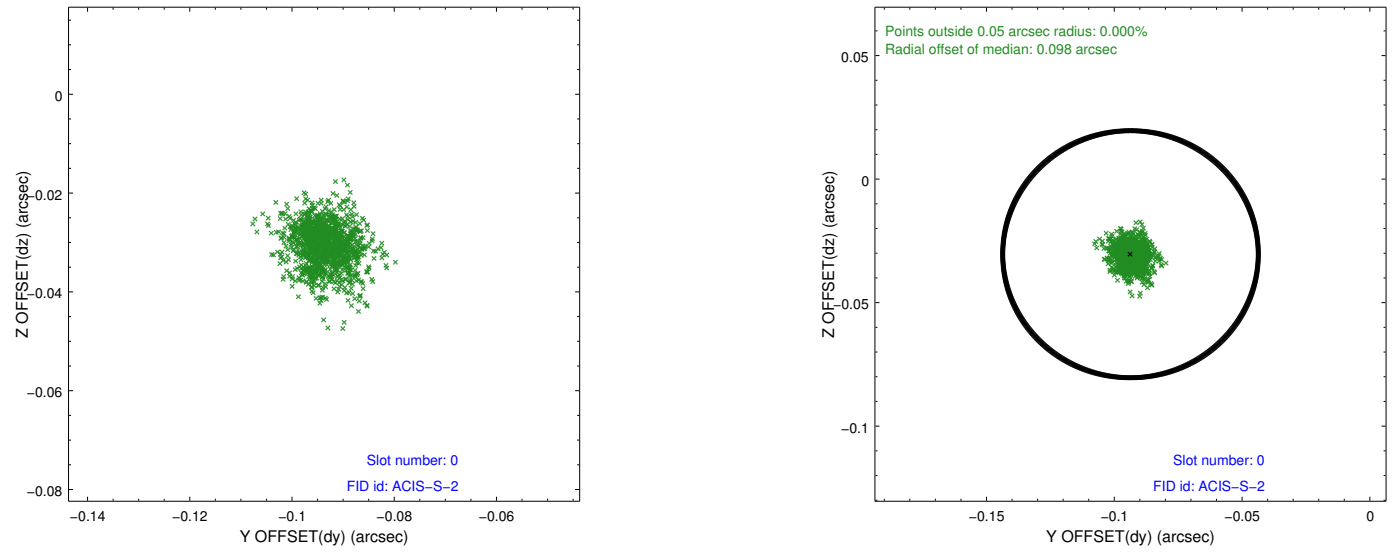


2.4.5 Slot 7

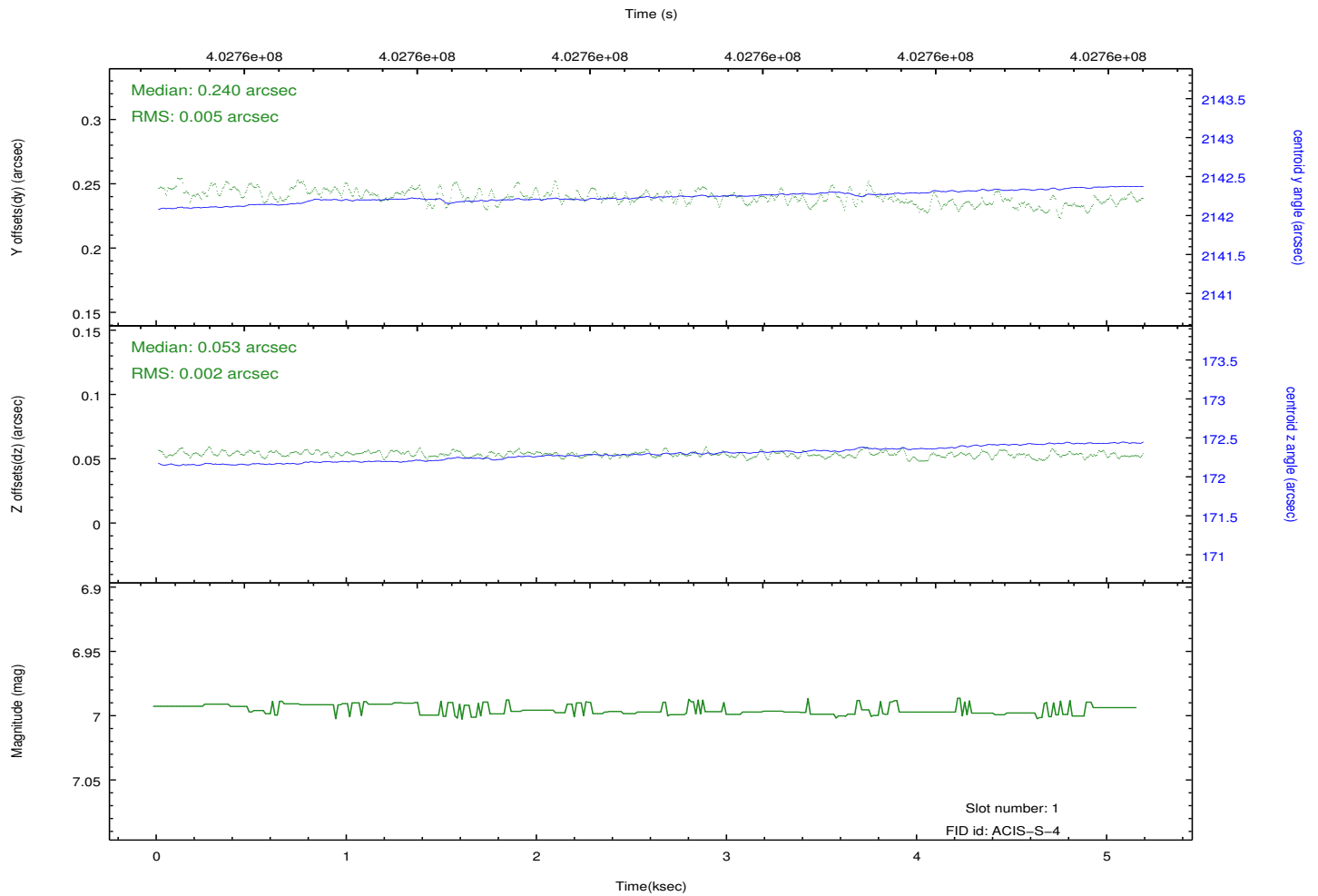
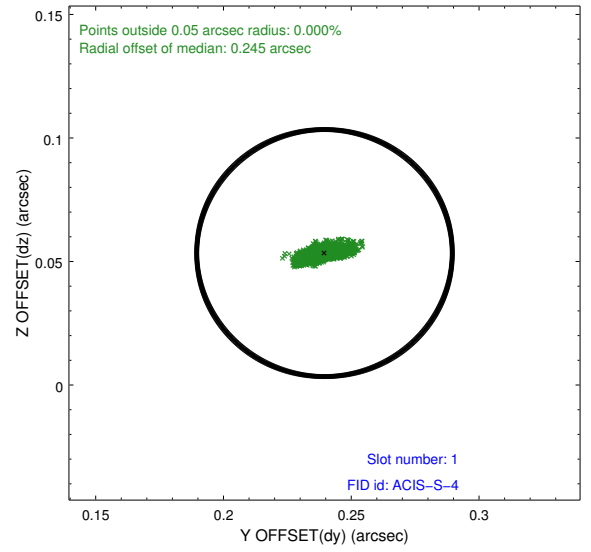
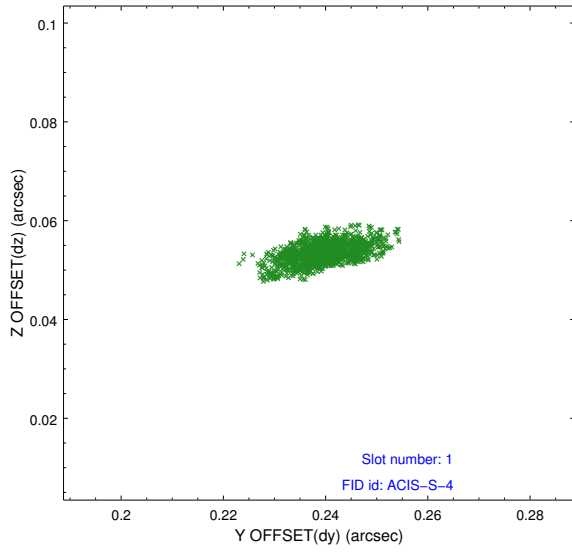


2.5 FID Slots

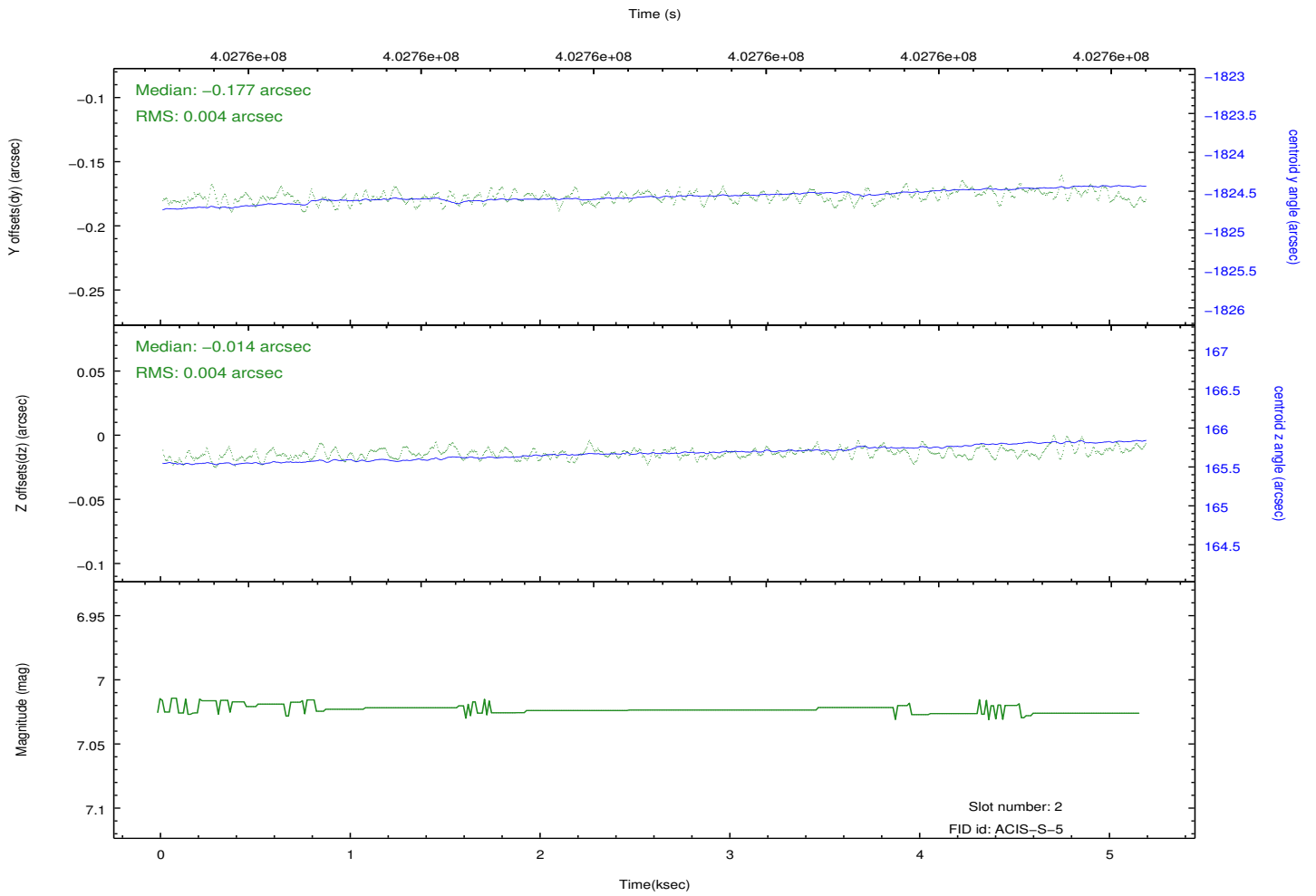
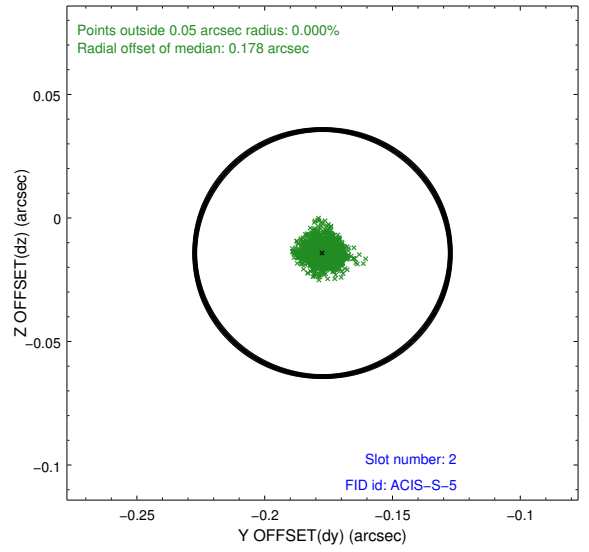
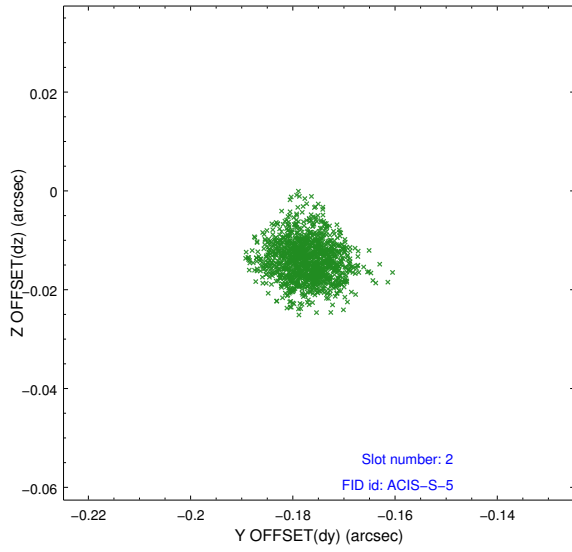
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.07.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0637488704324

A.2 Comments