

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11558 - L2 Version 2
Chandra X-Ray Center

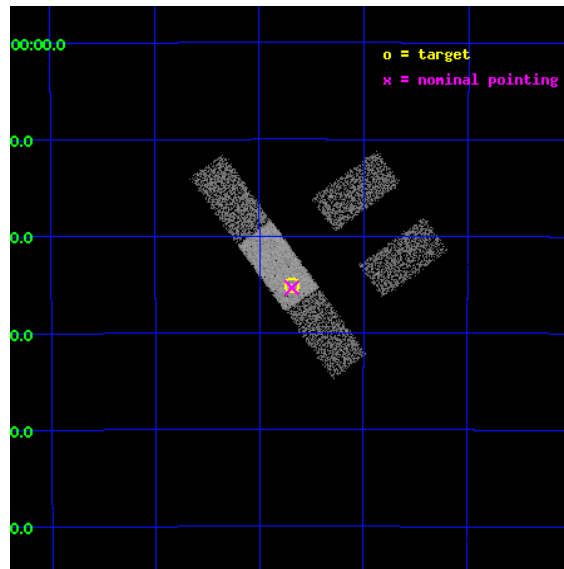
L2 Processing Date : Jun 22 2012

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

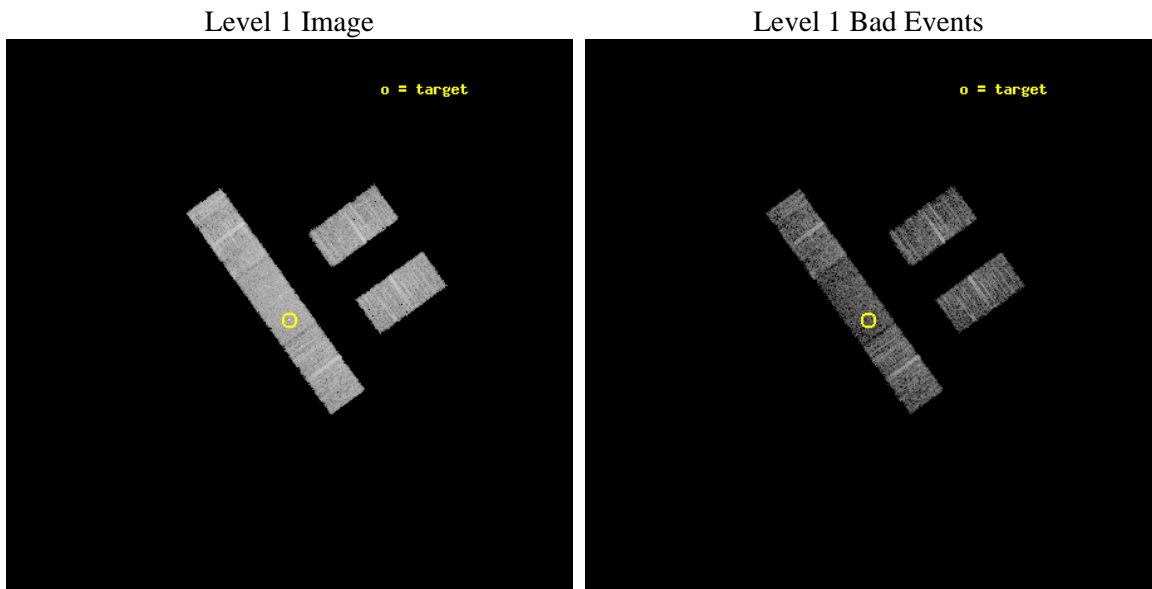
seq_num	702144	Sequence number
obs_id	11558	Observation id
title	The Size of Quasar Non-Thermal/X-ray Emission Regions	Proposal tit
observer	Prof. Christopher Kochanek	Principal investigator
object	QJ0158-4325	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	29.6725	Observer's specified target RA [deg]
dec_targ	-43.417833	Observer's specified target Dec [deg]
ra_nom	29.671995168636	Nominal RA [deg]
dec_nom	-43.422601758353	Nominal Dec [deg]
roll_nom	234.15628487034	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5156.0999639034	Sum of GTIs [s]
livetime	5034.5597680902	Livetime [s]
ontime2	5156.0999639034	Sum of GTIs [s]
ontime3	5156.0999639034	Sum of GTIs [s]
ontime6	5156.0999639034	Sum of GTIs [s]
ontime7	5156.0999639034	Sum of GTIs [s]
ontime8	5156.0999639034	Sum of GTIs [s]
l2events	20246	Number of level 2 events



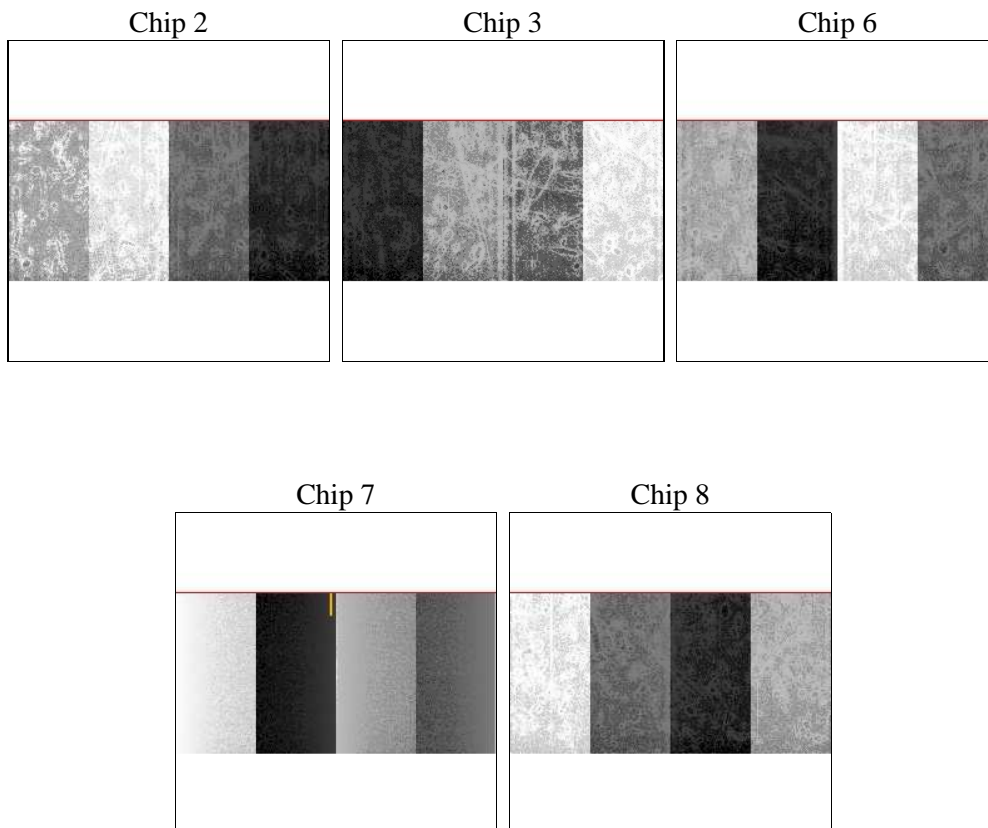
2 OBI

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	5156.0999639034	Sum of GTIs [s]
caldsver	4.4.10	 	ontime2	5156.0999639034	Sum of GTIs [s]
date	2012-06-22T15:56:56	Date and time of file creation	ontime3	5156.0999639034	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	5156.0999639034	Sum of GTIs [s]
			ontime7	5156.0999639034	Sum of GTIs [s]
			ontime8	5156.0999639034	Sum of GTIs [s]
			l1events	159216	Number of level 1 events

2.1.4 Events

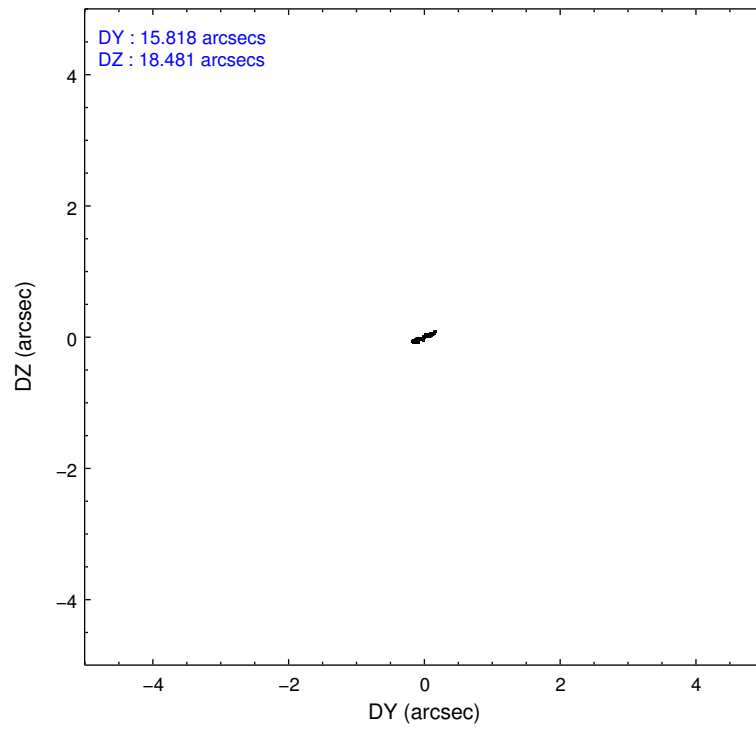
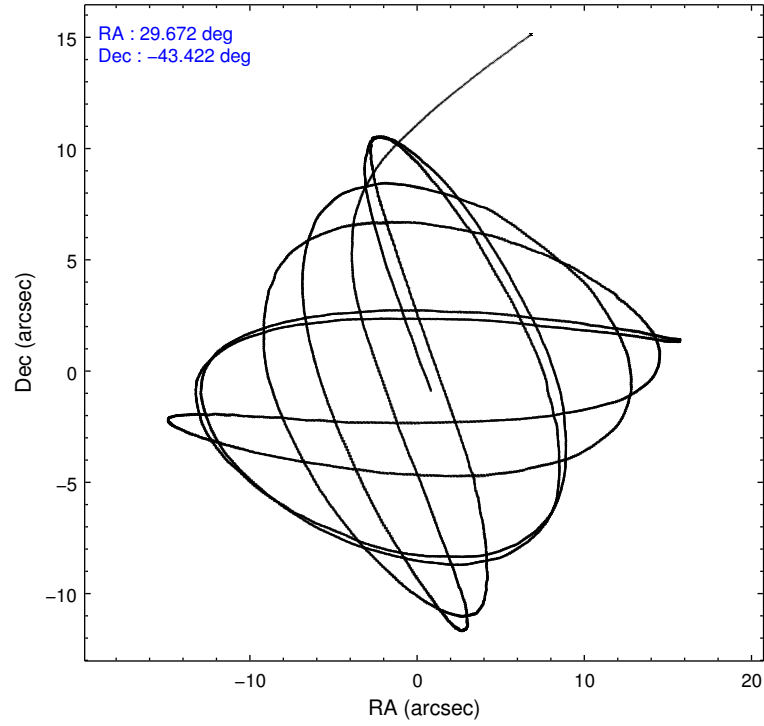
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	28356	28766	30244	33432	38418
rejected events	26007	26455	27791	21275	31165
rejected %	91%	91%	91%	63%	81%

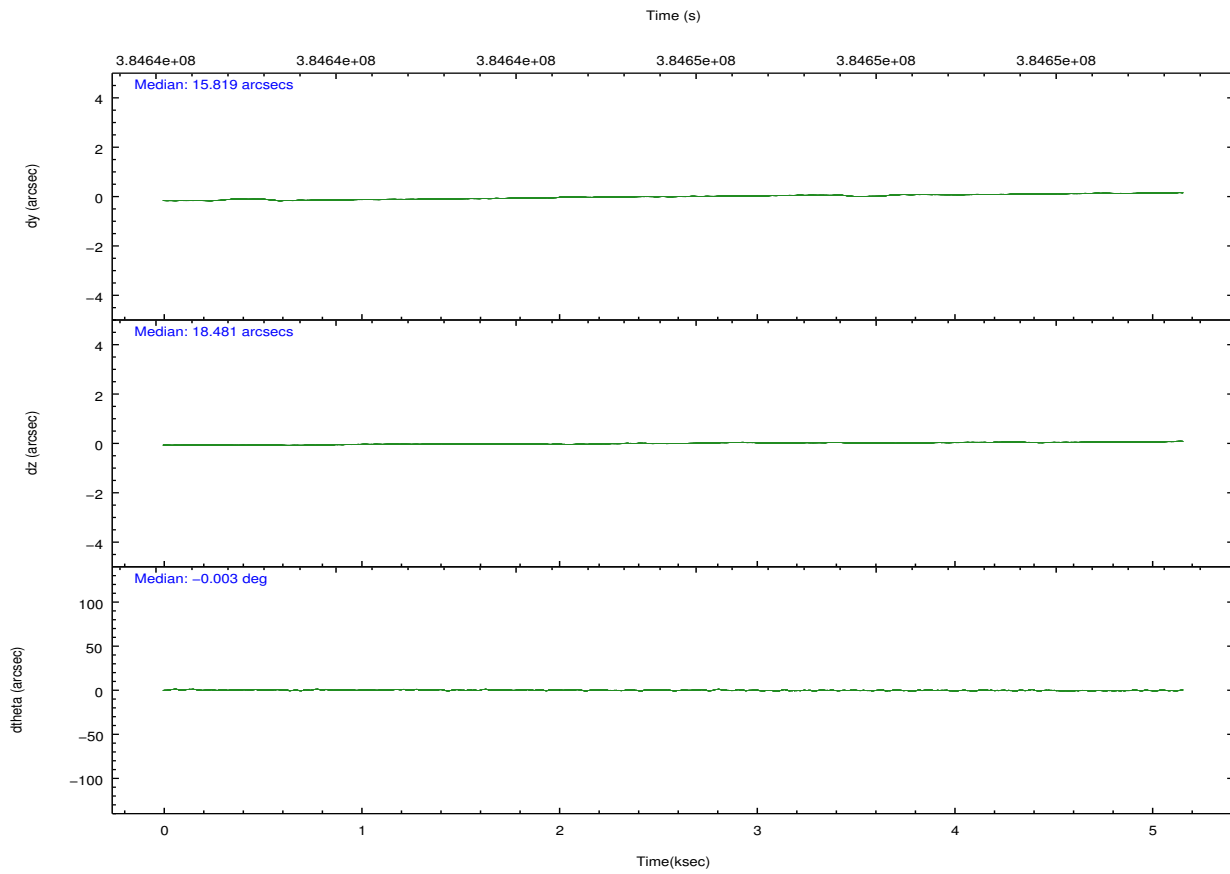
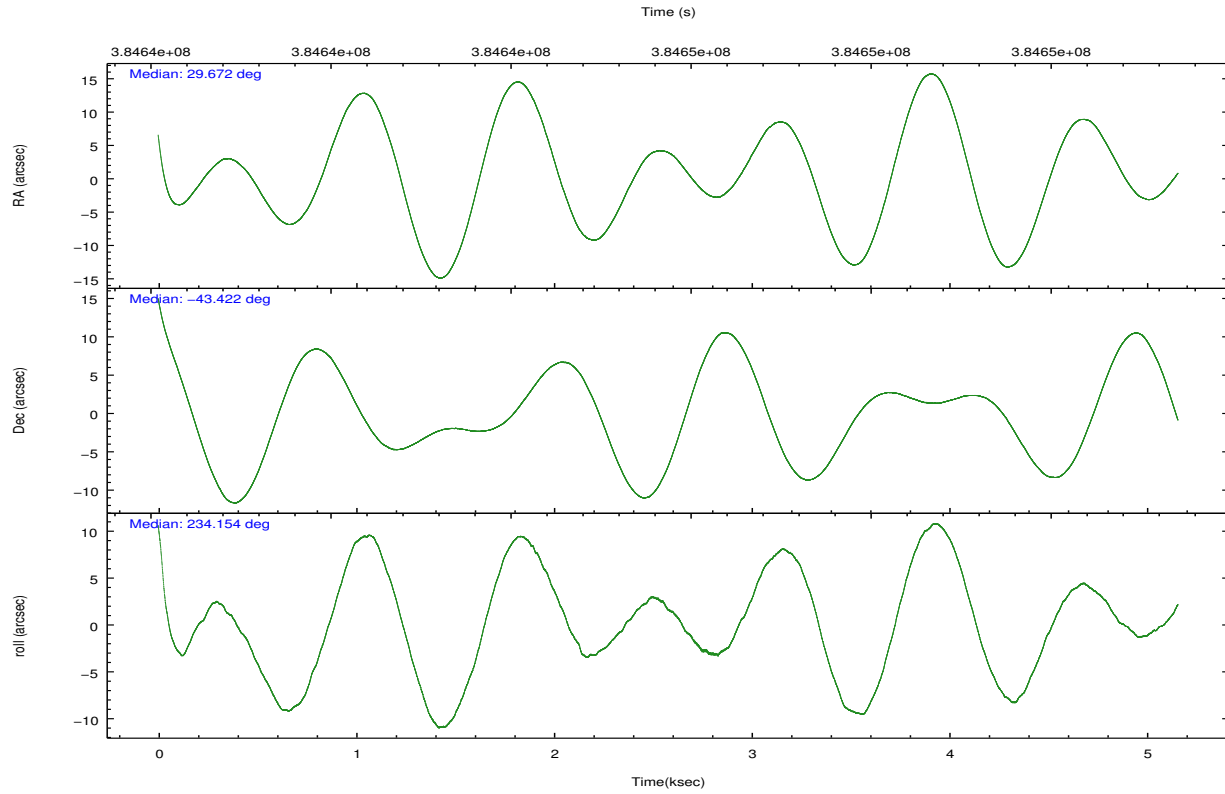
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	971	920	1128	1690	2771
	3%	3%	3%	5%	7%
grade 1 events	6	11	15	64	23
	0%	0%	0%	0%	0%
grade 2 events	702	694	700	3248	2178
	2%	2%	2%	9%	5%
grade 3 events	395	424	423	1598	1035
	1%	1%	1%	4%	2%
grade 4 events	425	376	380	1499	940
	1%	1%	1%	4%	2%
grade 5 events	1008	1186	1282	3513	1687
	3%	4%	4%	10%	4%
grade 6 events	552	608	675	7677	2678
	1%	2%	2%	22%	6%
grade 7 events	24297	24547	25641	14143	27106
	85%	85%	84%	42%	70%

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	29.675333	29.67199516863572	CCD I2 on	O4	Y
[deg] Pointing Dec	-43.395442	-43.42260175835342	CCD I3 on	O3	Y
[deg] Pointing Roll	234.001953	234.1562848703408	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	-190.145094680475	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01257209746719923	CCD S4 on	O2	Y
[s] Observation start time (MET)	384643449.184000	384641683.76313	CCD S5 on	N	N
Observation start date	2010-03-10T21:23:03	2010-03-10T20:54:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	384648449.184000	384649513.22602	On-chip summing requested	N	N
Observation end date	2010-03-10T22:46:23	2010-03-10T23:05:13	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





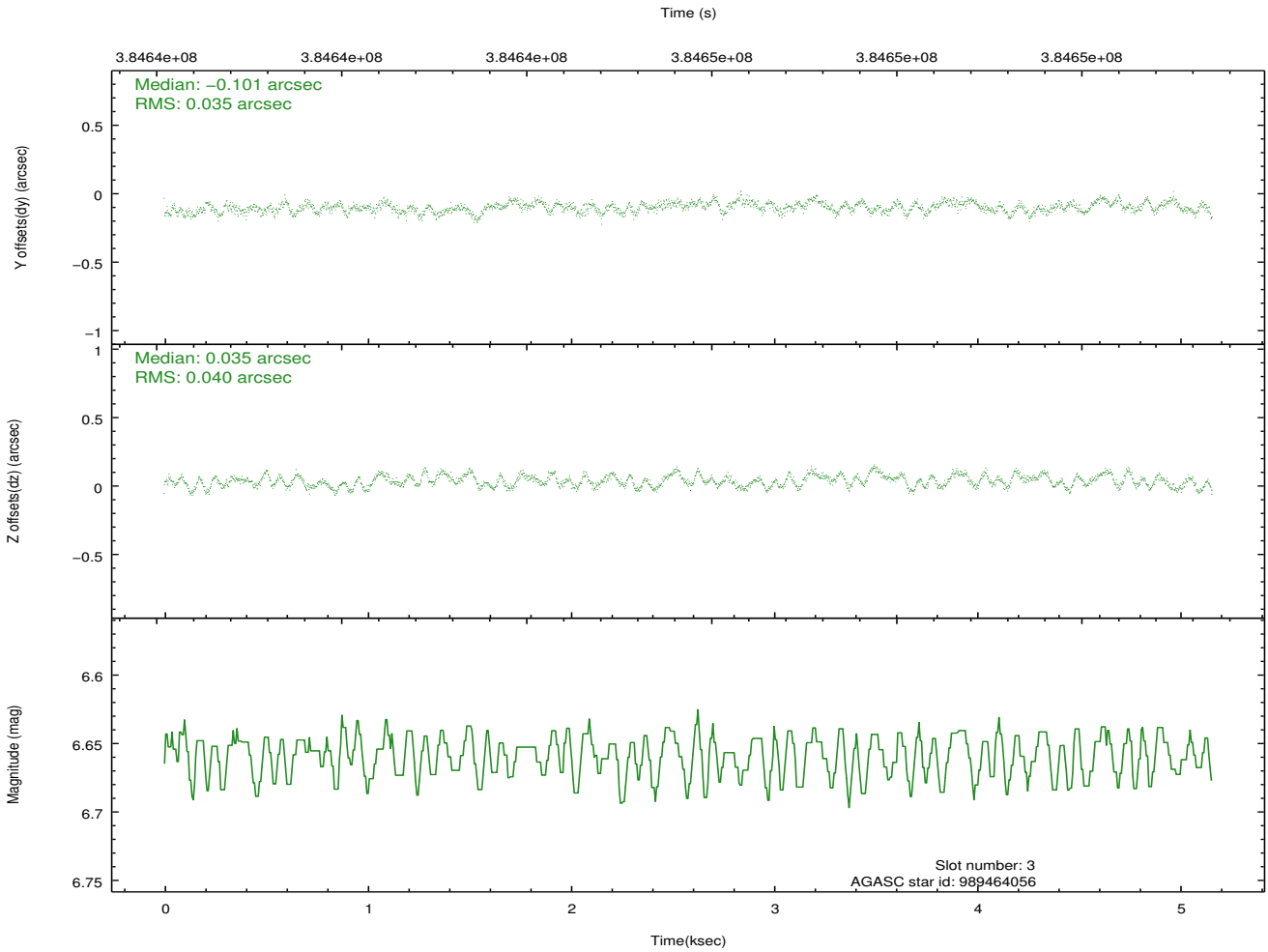
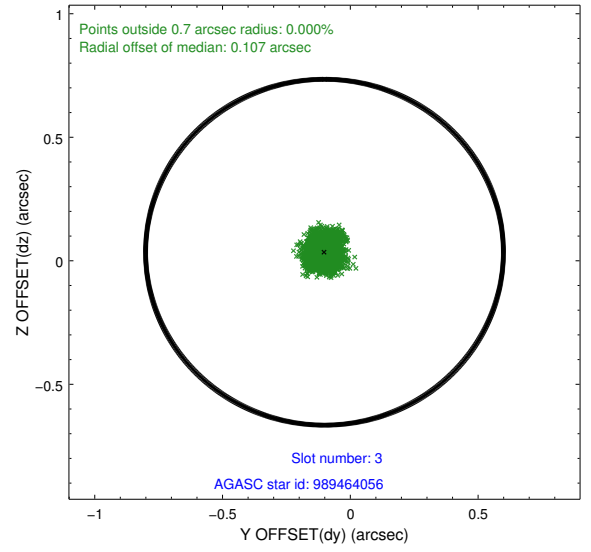
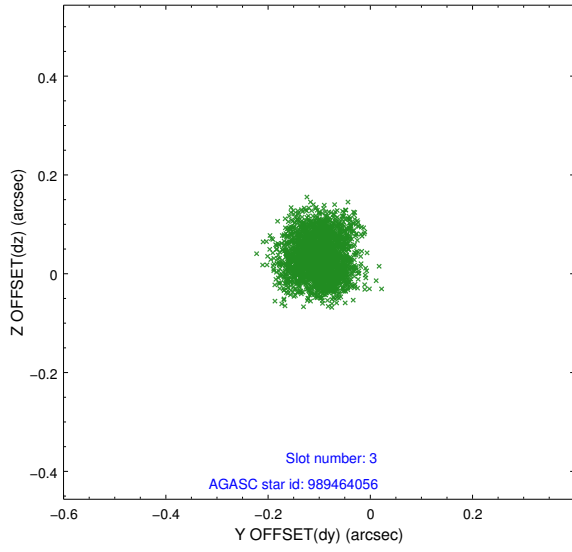
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	1259	-0.070	-0.043	0.010	0.016	0.000000	0.000000	-768.92	-1739.87
1	FID	ACIS-S-4	6.97	1259	0.155	0.046	0.013	0.024	0.000000	0.000000	2144.10	167.41
2	FID	ACIS-S-5	7.00	1259	-0.116	0.007	0.013	0.022	0.000000	0.000000	-1820.26	162.48
3	GUIDE	989464056	6.66	2518	-0.101	0.035	0.059	0.091	29.735893	-42.949136	-1392.96	-814.77
4	GUIDE	989464232	9.48	2512	0.079	0.057	0.100	0.167	29.286358	-43.452579	766.67	-700.37
5	GUIDE	989464976	9.21	2513	0.009	-0.031	0.117	0.190	28.960994	-43.047006	97.25	-2252.95
6	GUIDE	989467528	8.19	2516	0.014	-0.048	0.084	0.127	29.209436	-43.178151	89.39	-1447.35
7	GUIDE	989470600	9.39	2516	-0.006	-0.002	0.119	0.194	29.755442	-43.921156	1409.56	1281.14

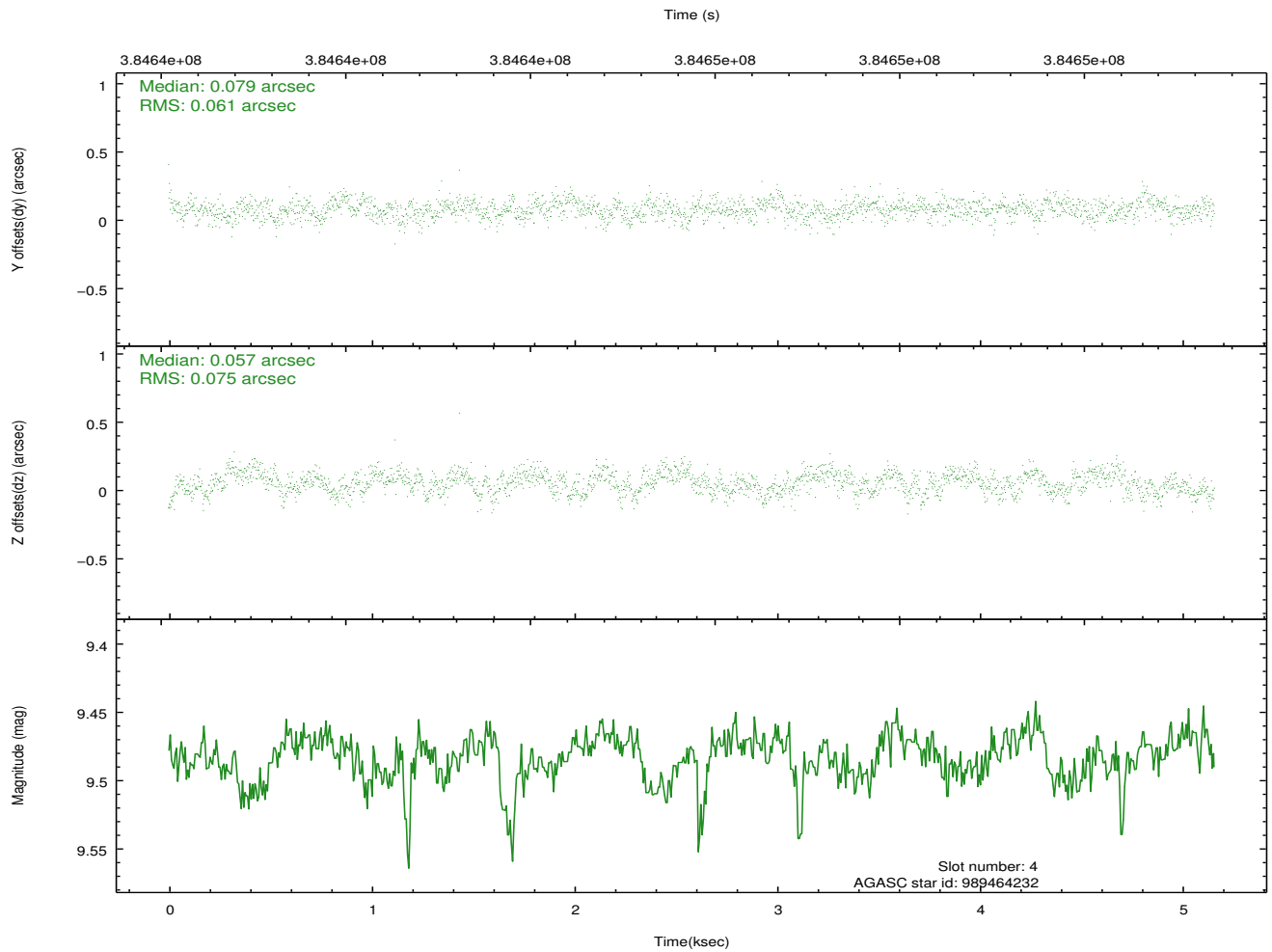
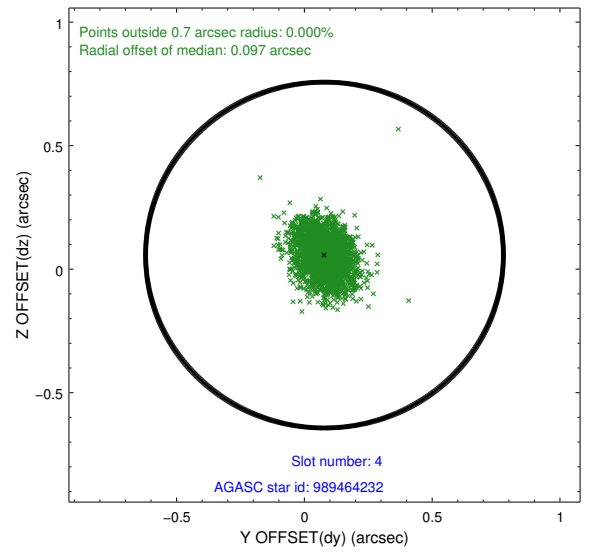
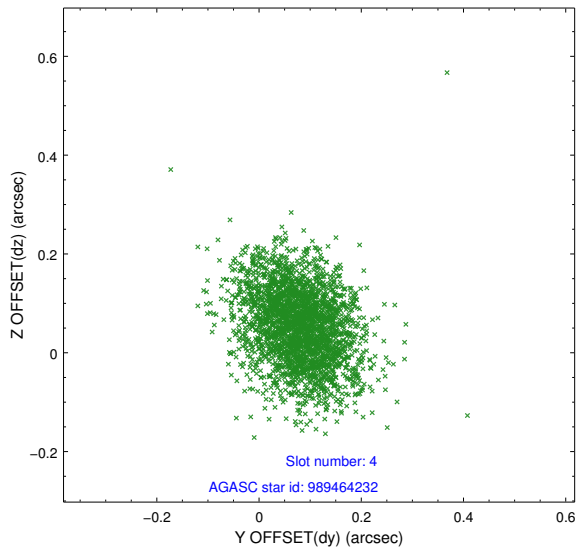
∞

2.4 Star Slots

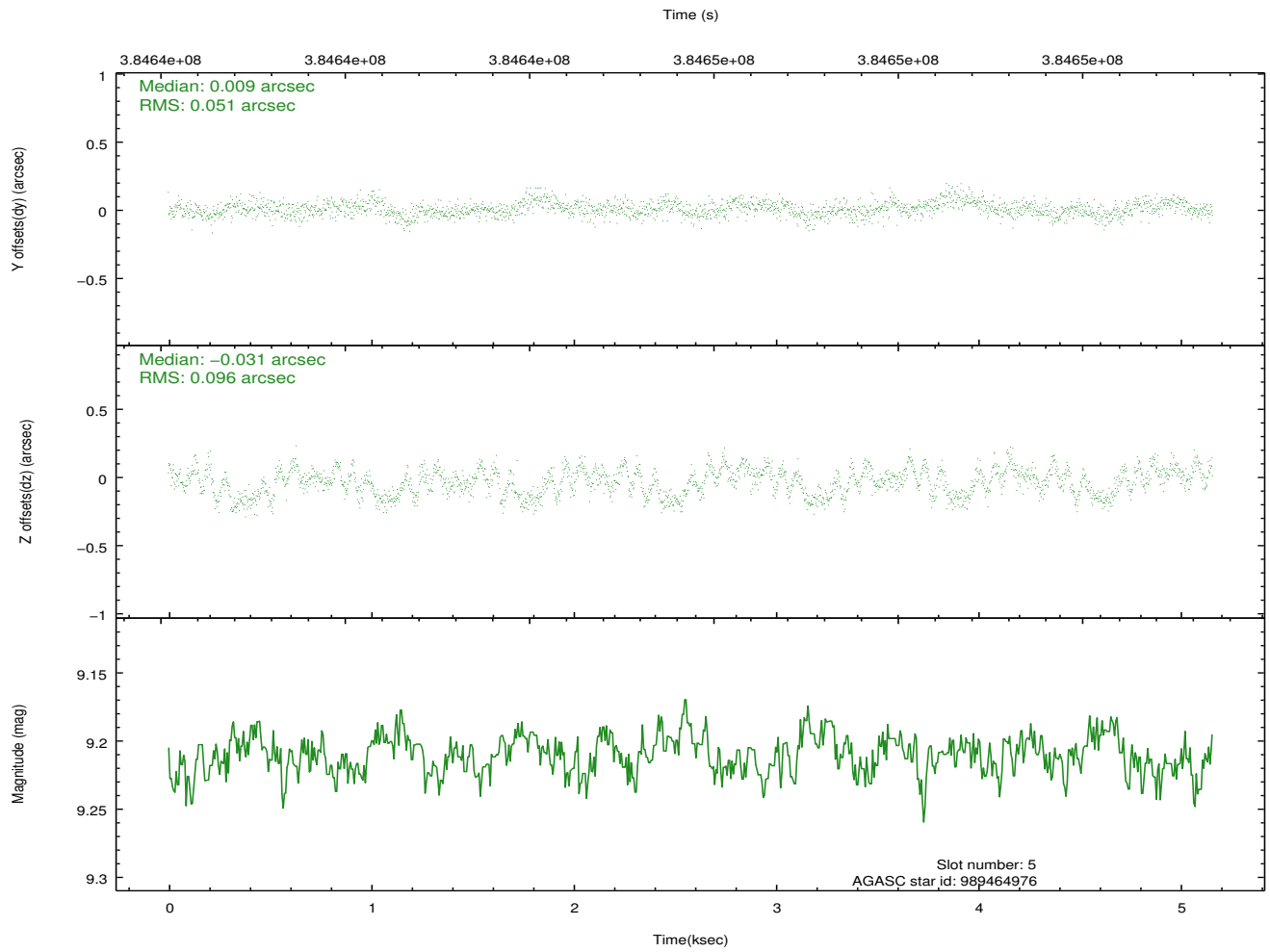
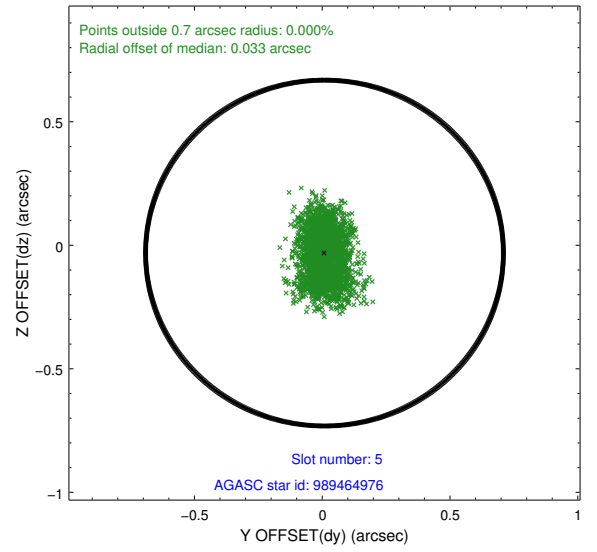
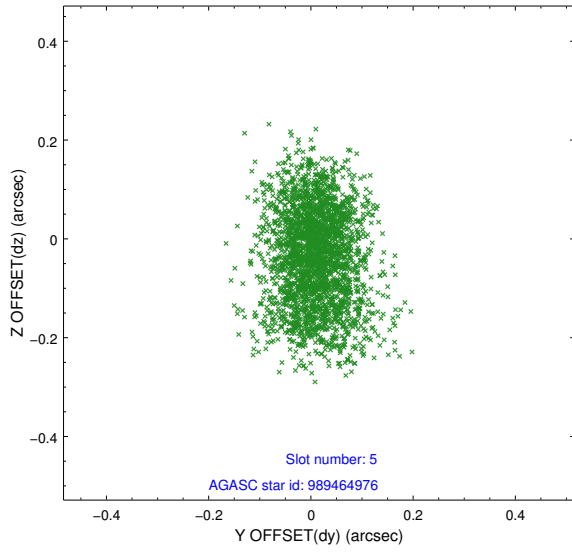
2.4.1 Slot 3



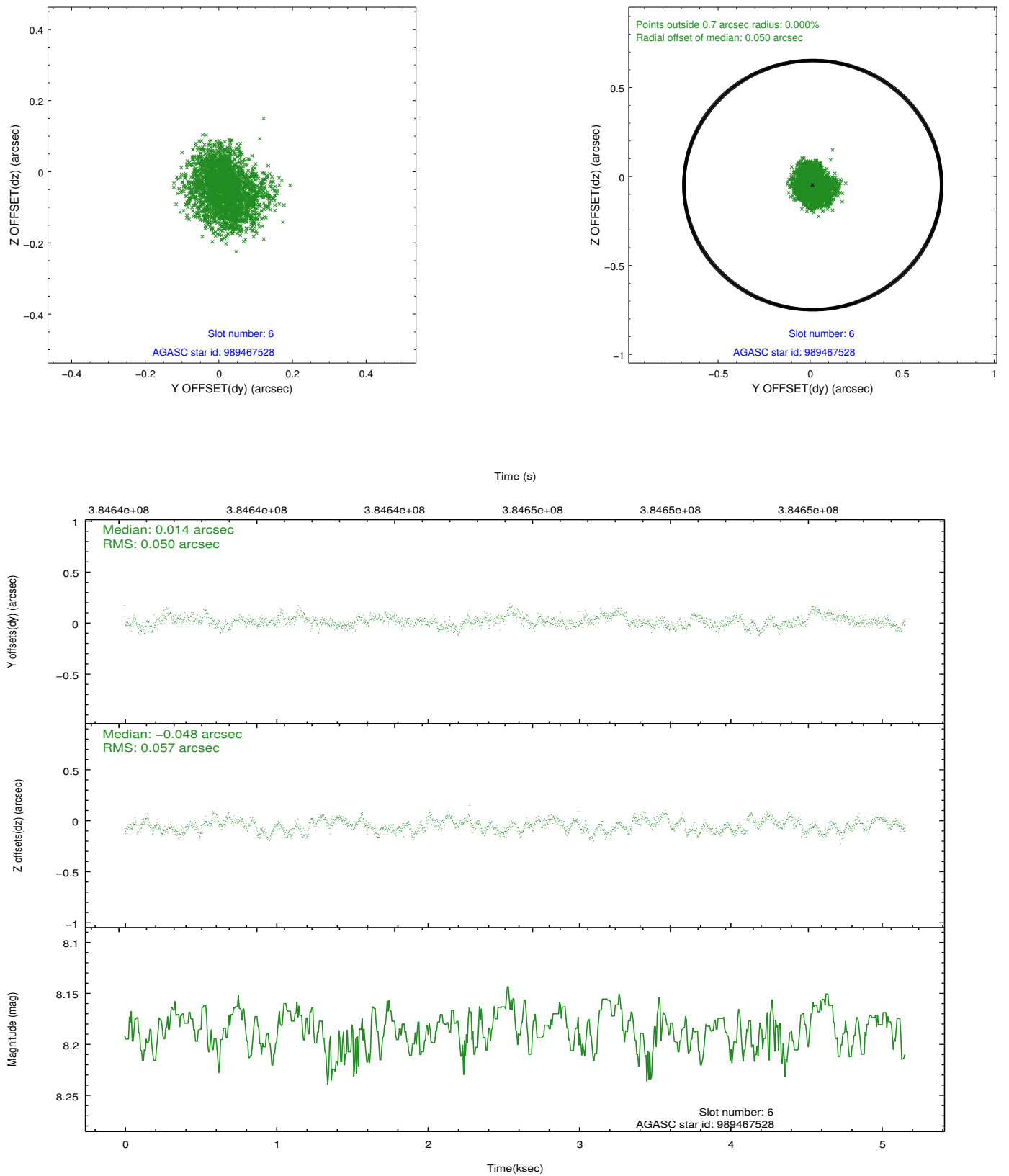
2.4.2 Slot 4



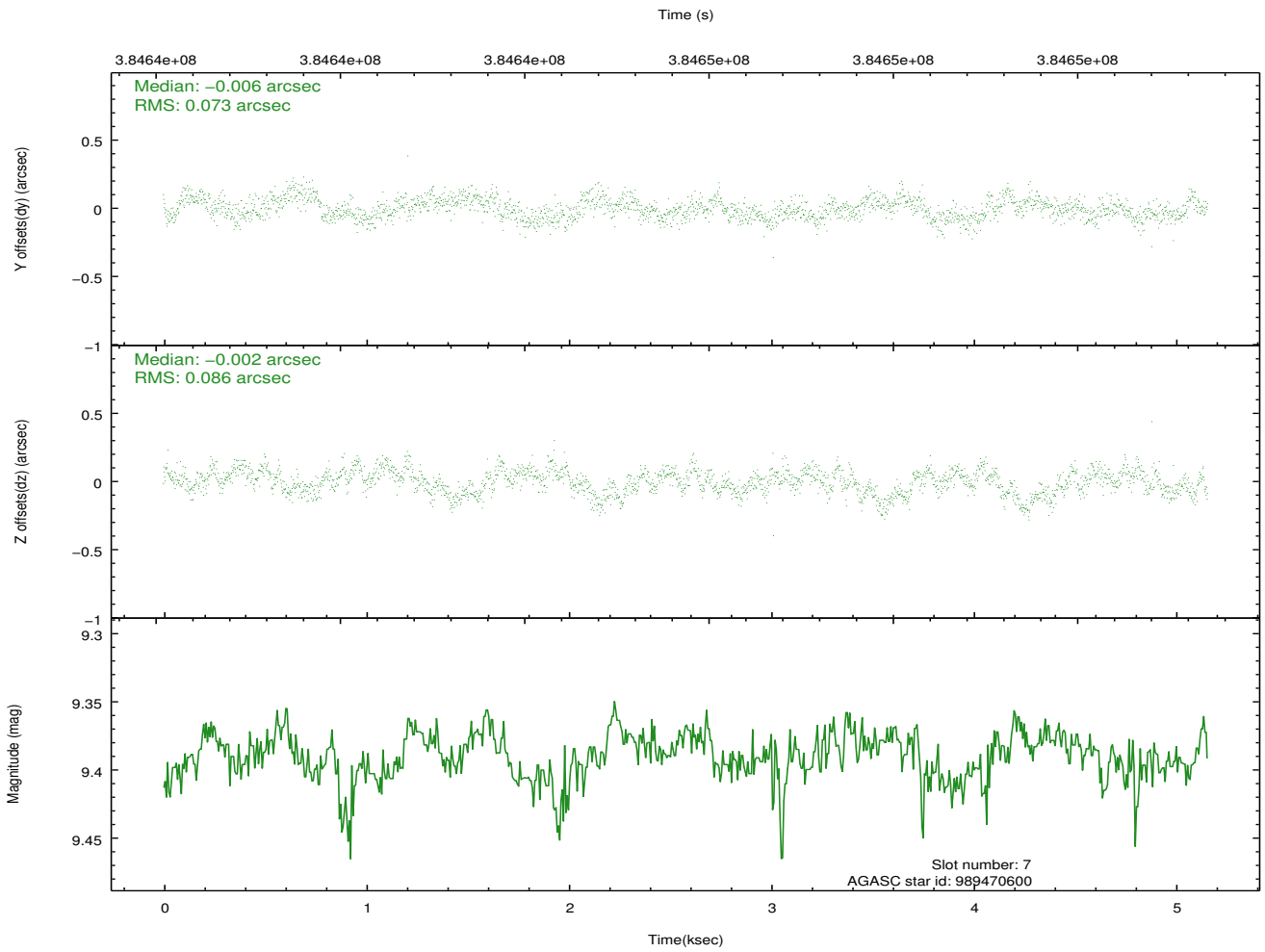
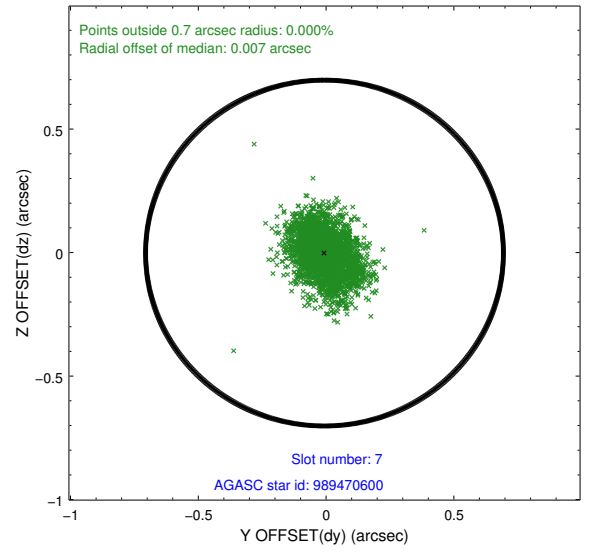
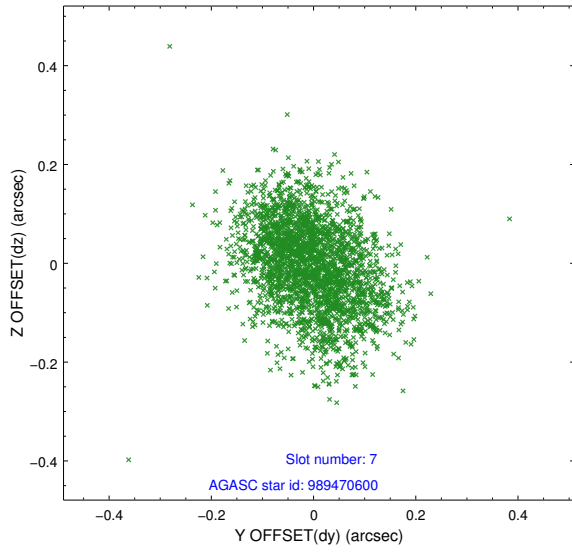
2.4.3 Slot 5



2.4.4 Slot 6

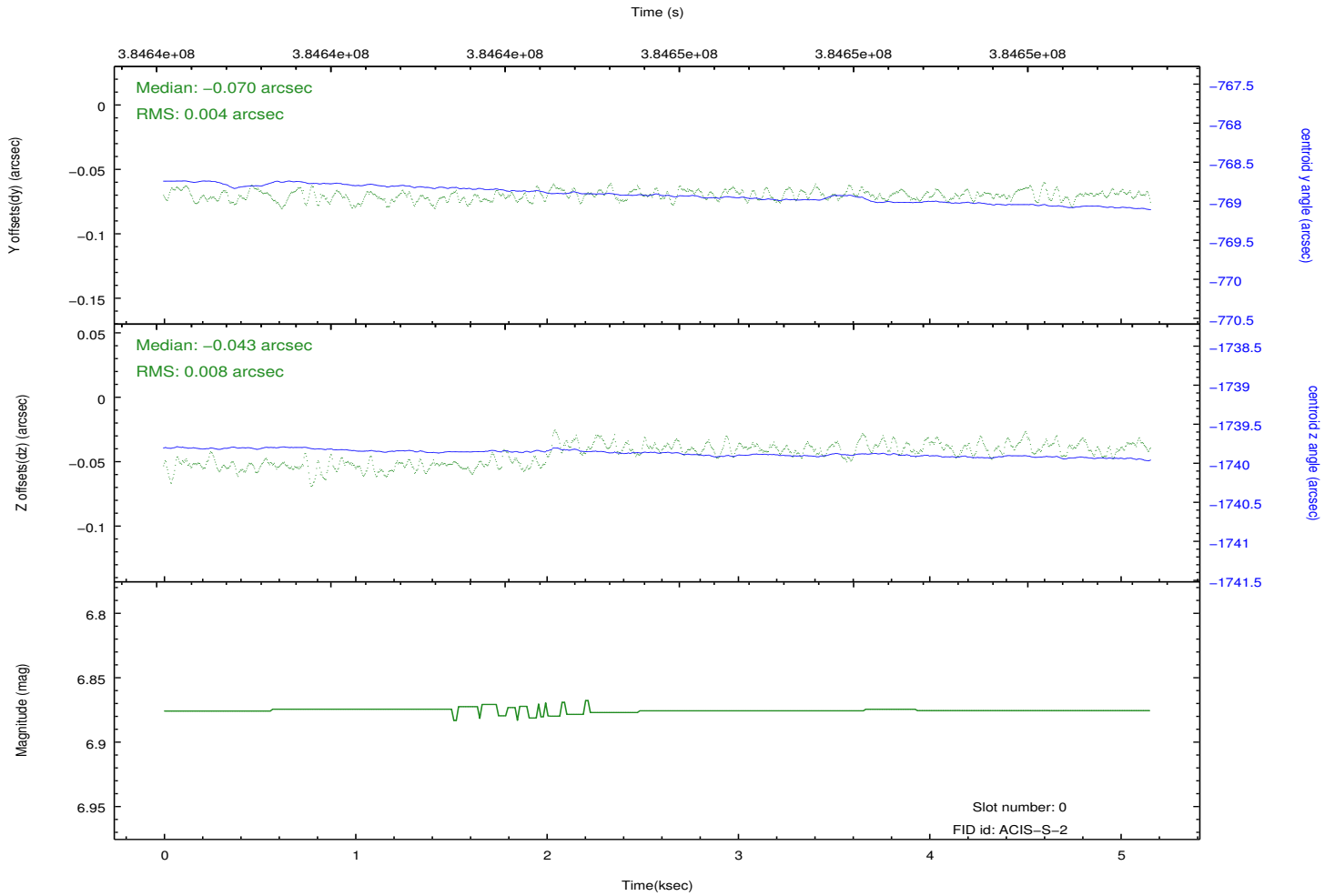
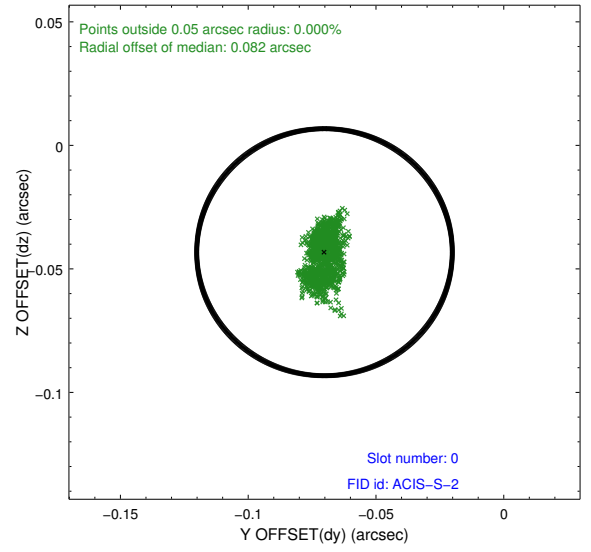
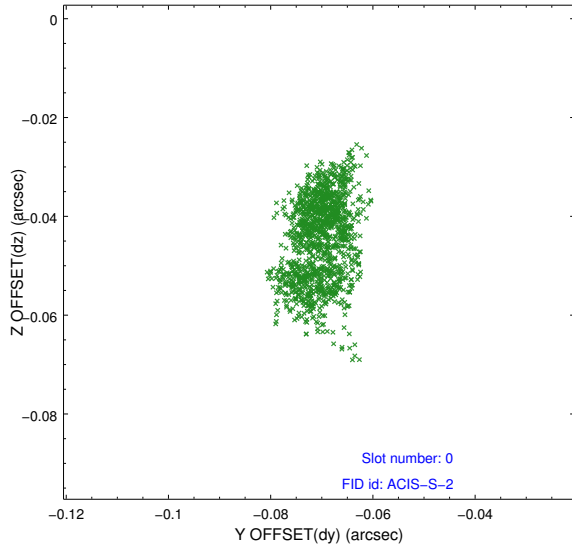


2.4.5 Slot 7

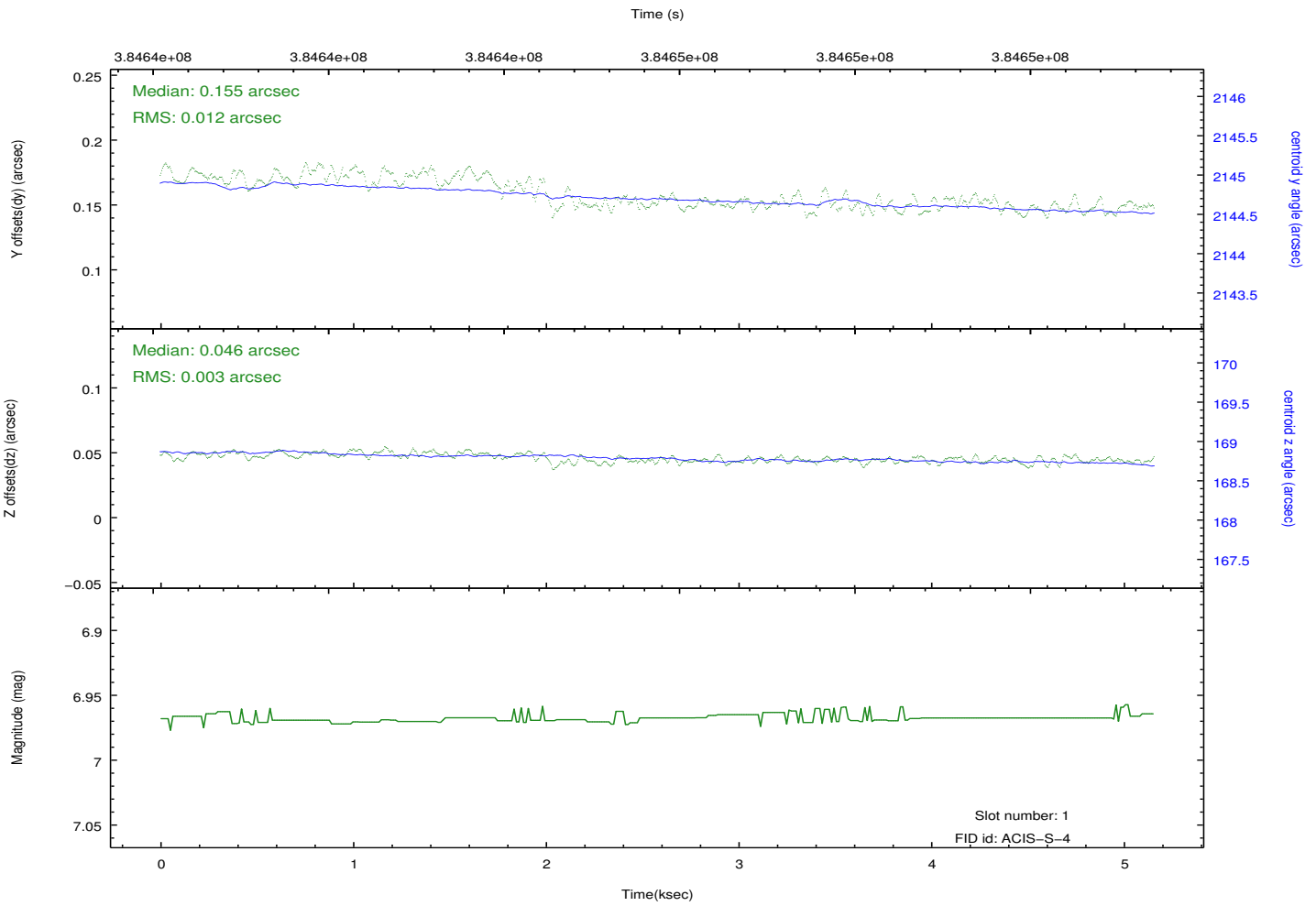
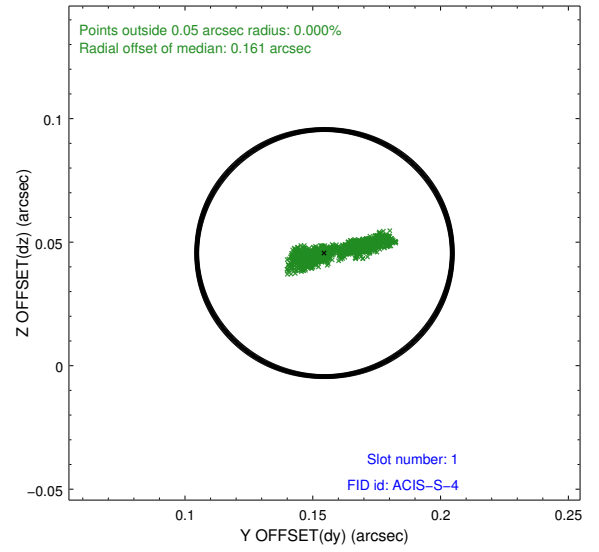
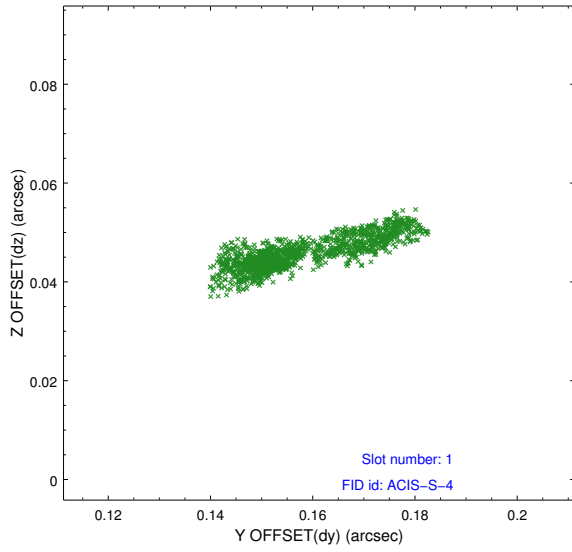


2.5 FID Slots

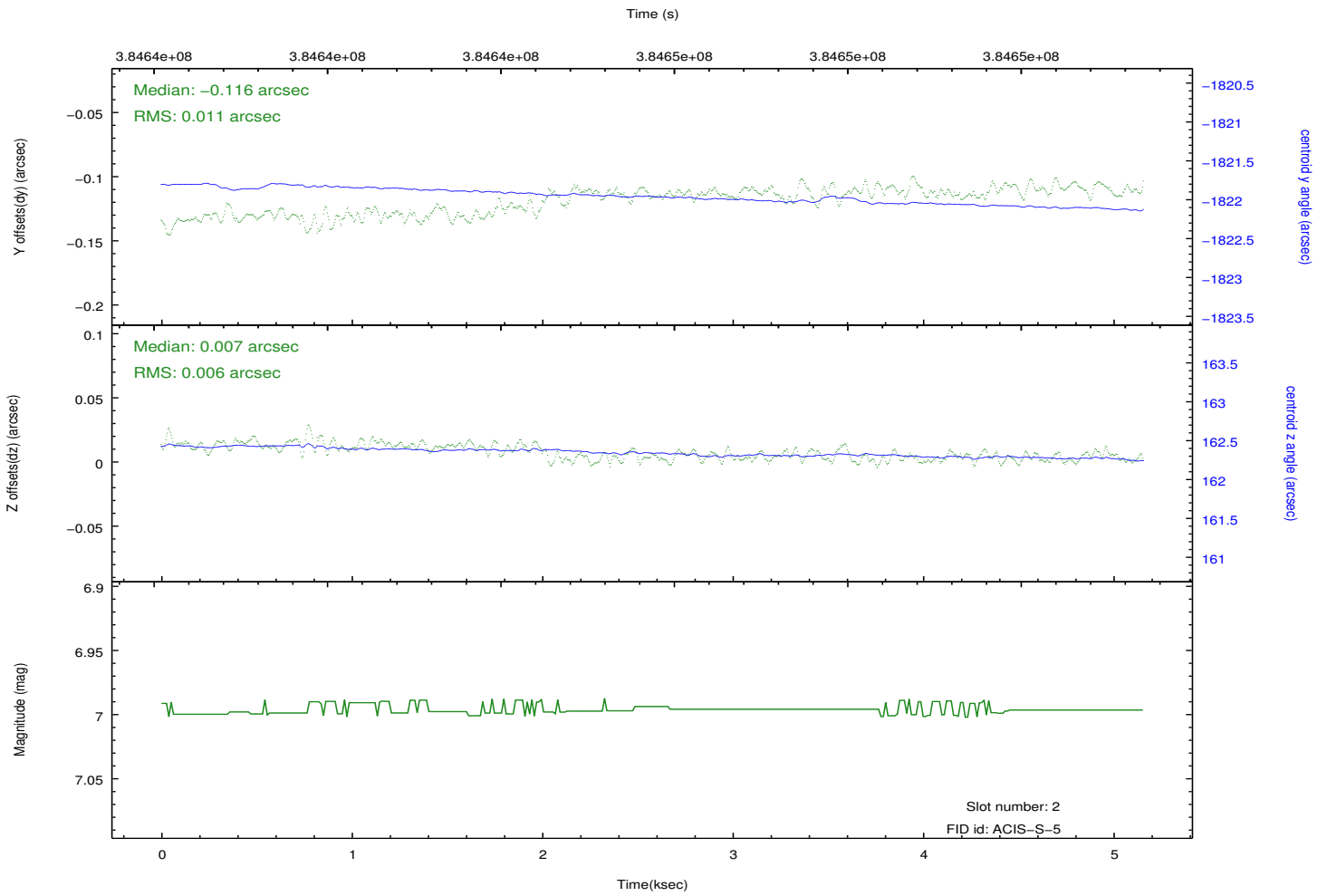
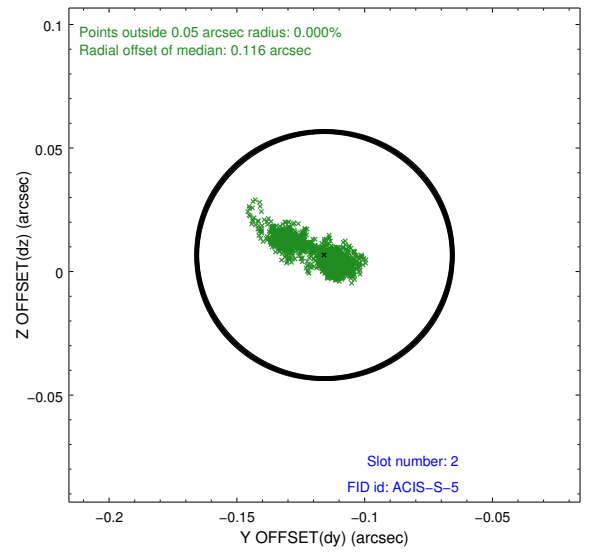
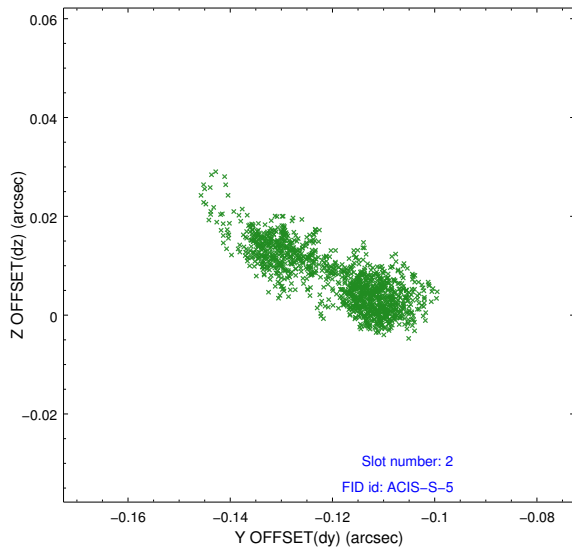
2.5.1 Slot 0



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)	2012.06.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1560999639034

A.2 Comments