

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11554 - L2 Version 2
Chandra X-Ray Center

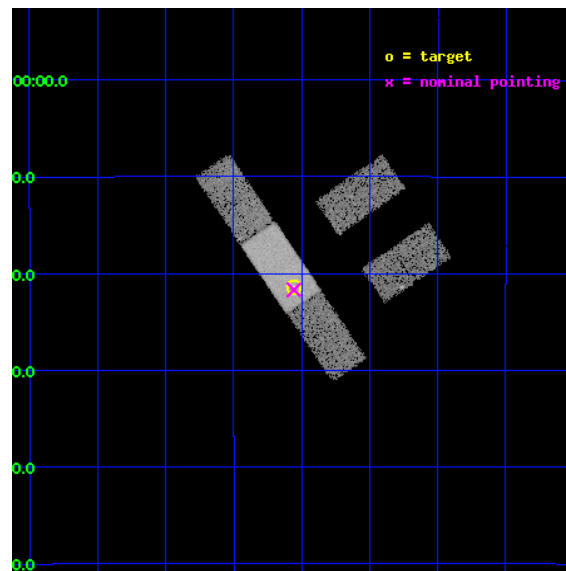
L2 Processing Date : Jun 29 2012

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1 Front

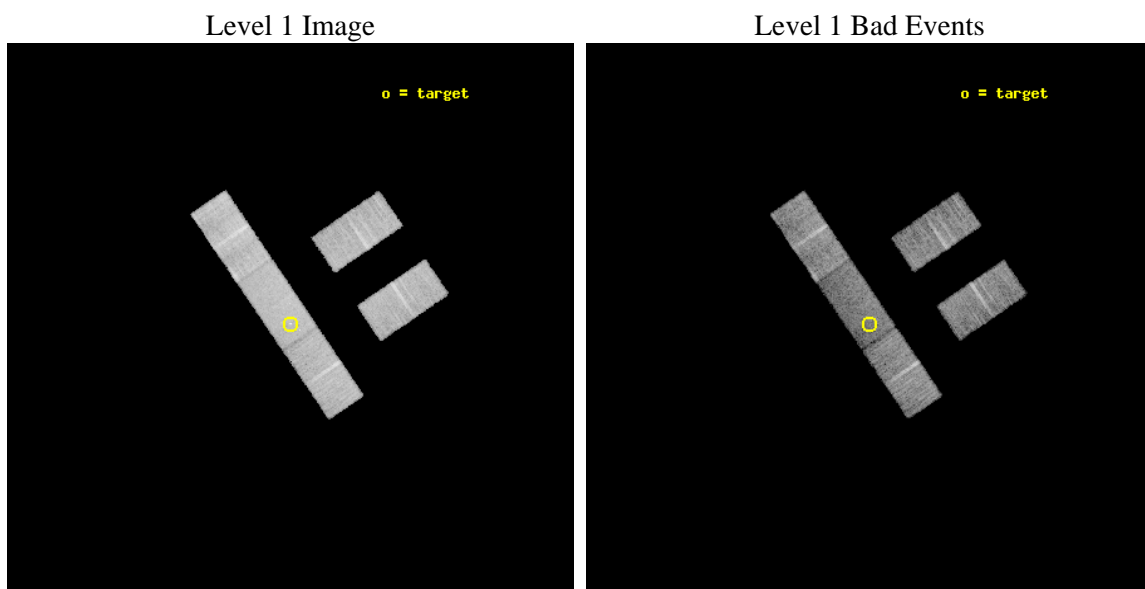
seq_num	702140	Sequence number
obs_id	11554	Observation id
title	The Size of Quasar Non-Thermal/X-ray Emission Regions	Proposal tit
observer	Prof. Christopher Kochanek	Principal investigator
object	HE1104-1805	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	166.639583	Observer's specified target RA [deg]
dec_targ	-18.356722	Observer's specified target Dec [deg]
ra_nom	166.63935719026	Nominal RA [deg]
dec_nom	-18.361574431913	Nominal Dec [deg]
roll_nom	235.75024227484	Nominal Roll [deg]
revision	2	Processing version of data
ontime	13065.808155775	Sum of GTIs [s]
livetime	12757.819386584	Livetime [s]
ontime2	13065.643995762	Sum of GTIs [s]
ontime3	13063.985055625	Sum of GTIs [s]
ontime6	13065.767115772	Sum of GTIs [s]
ontime7	13065.808155775	Sum of GTIs [s]
ontime8	13065.685035765	Sum of GTIs [s]
l2events	49769	Number of level 2 events



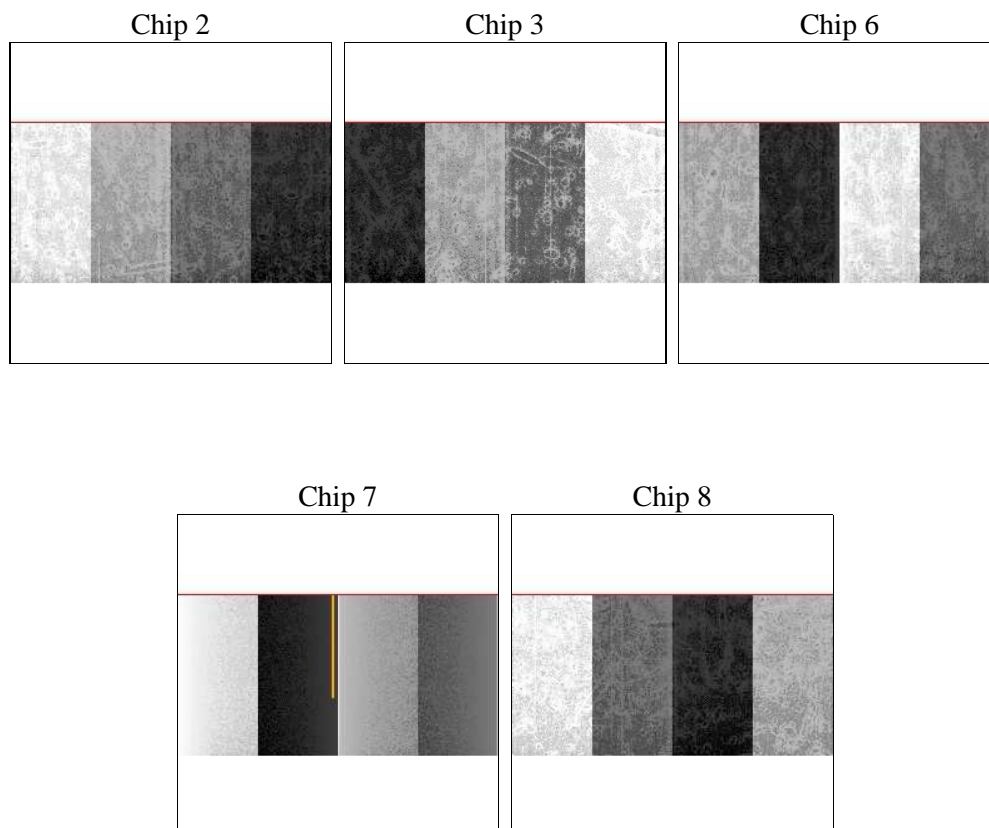
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	13000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	13065.808155775	Sum of GTIs [s]
caldbver	4.5.0	 	ontime2	13065.643995762	Sum of GTIs [s]
date	2012-06-30T00:57:25	Date and time of file creation	ontime3	13063.985055625	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	13065.767115772	Sum of GTIs [s]
			ontime7	13065.808155775	Sum of GTIs [s]
			ontime8	13065.685035765	Sum of GTIs [s]
			l1events	297963	Number of level 1 events

2.1.4 Events

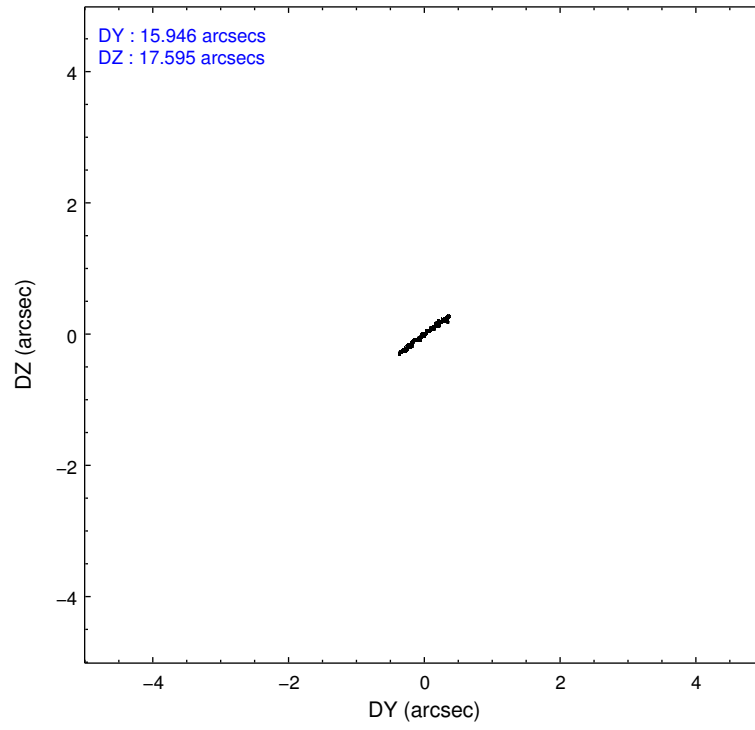
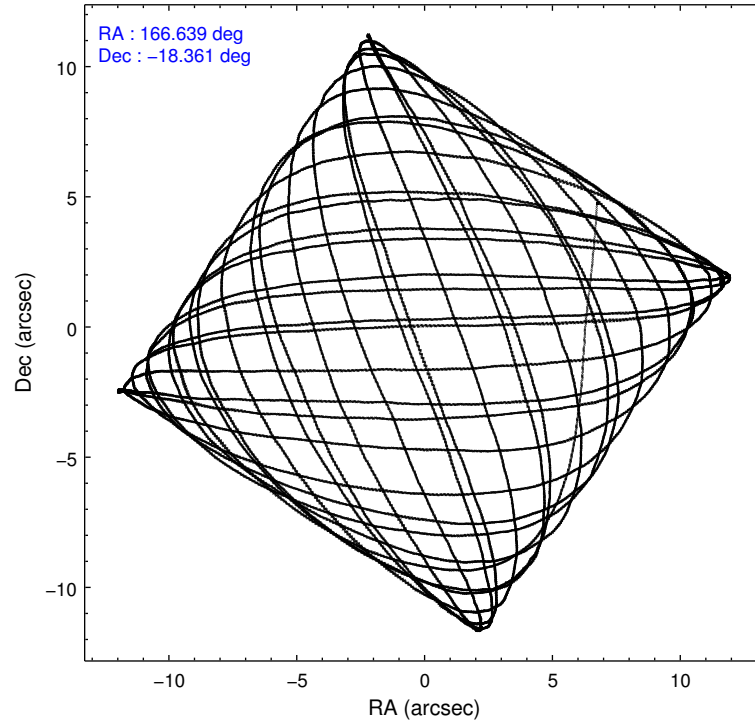
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	53130	52936	56075	63376	72446
rejected events	47370	47512	49912	33562	54241
rejected %	89%	89%	89%	52%	74%

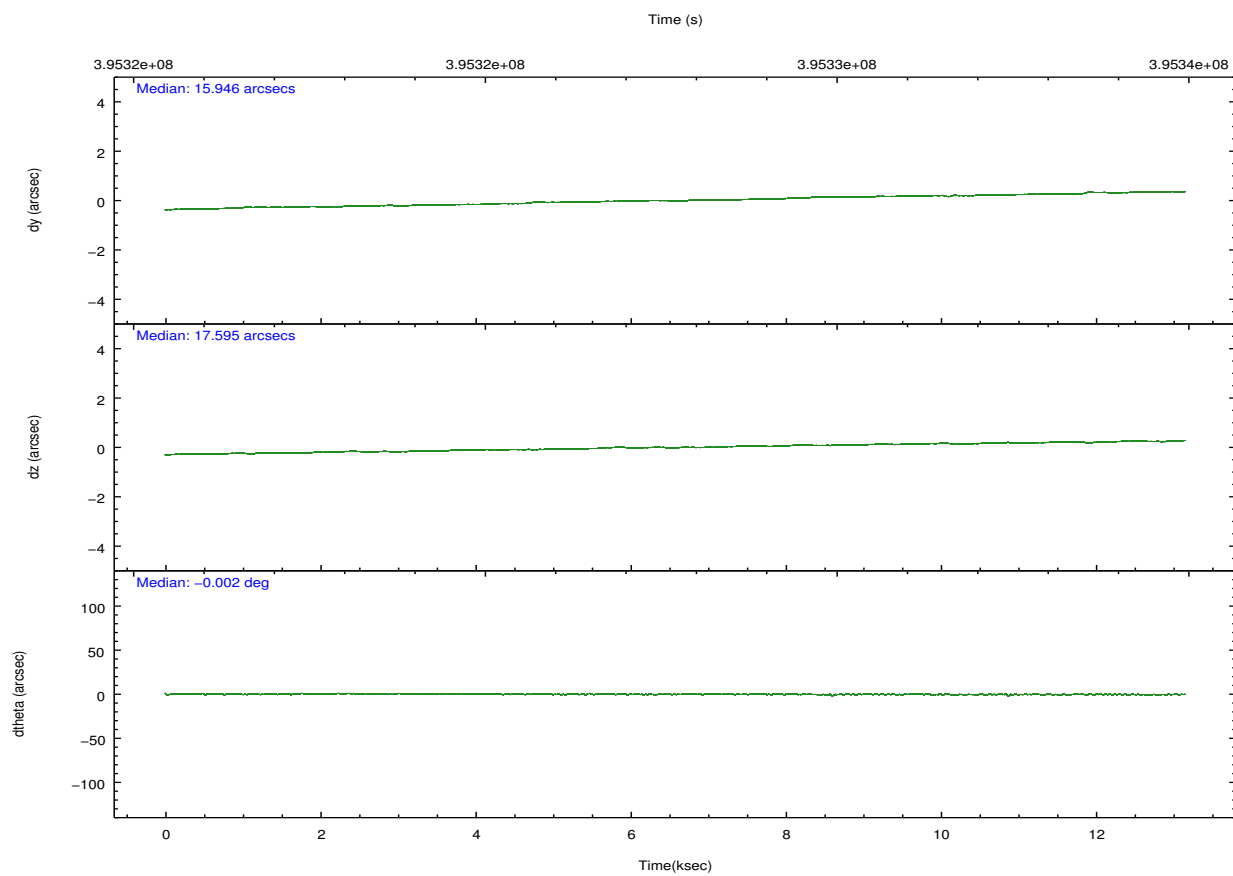
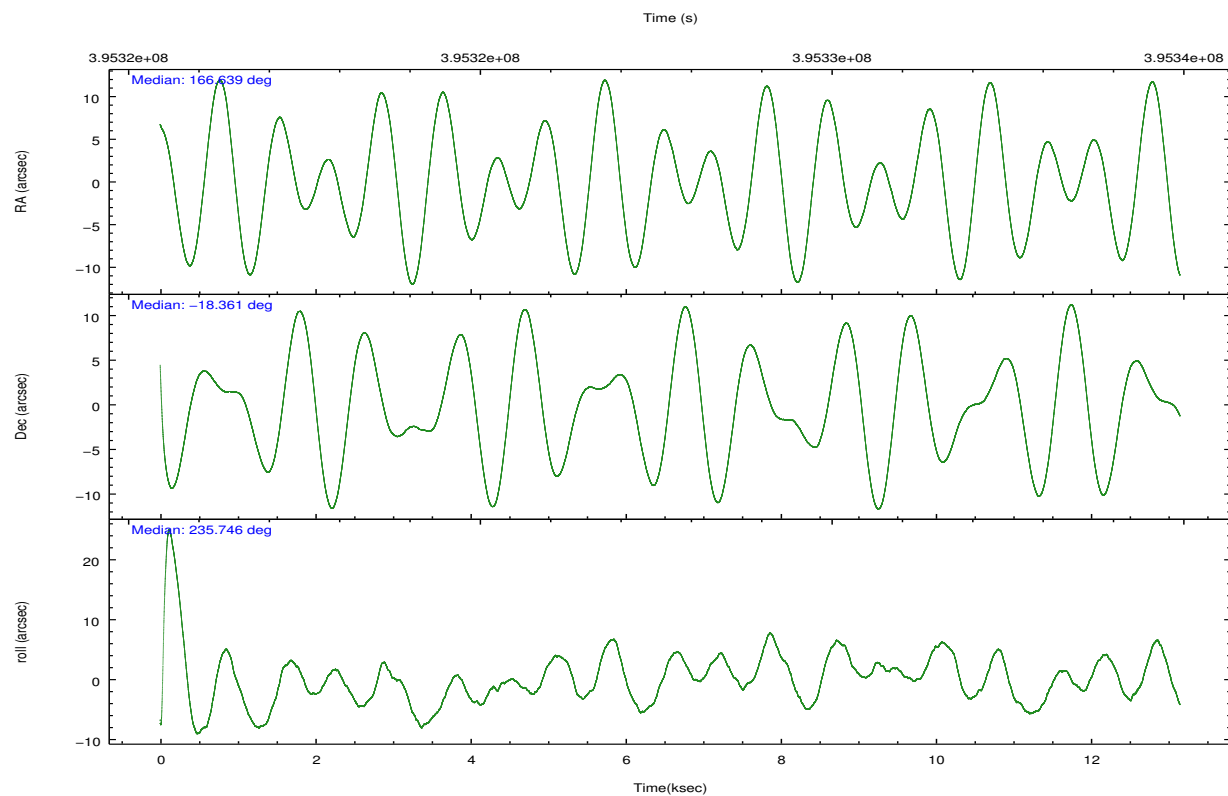
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2002	1762	1943	2919	5390
	3%	3%	3%	4%	7%
grade 1 events	14	21	16	97	47
	0%	0%	0%	0%	0%
grade 2 events	1245	1181	1300	6258	4208
	2%	2%	2%	9%	5%
grade 3 events	681	743	813	2900	1902
	1%	1%	1%	4%	2%
grade 4 events	778	640	783	2993	1797
	1%	1%	1%	4%	2%
grade 5 events	1956	2302	2290	6417	3287
	3%	4%	4%	10%	4%
grade 6 events	1056	1100	1325	14746	4909
	1%	2%	2%	23%	6%
grade 7 events	45398	45187	47605	27046	50906
	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	166.641091	166.6393571902626	CCD I2 on	O4	Y
[deg] Pointing Dec	-18.334271	-18.36157443191296	CCD I3 on	O3	Y
[deg] Pointing Roll	235.594193	235.7502422748362	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O2	Y
[s] Observation start time (MET)	395321259.184000	395319937.50667	CCD S5 on	N	N
Observation start date	2010-07-12T11:26:33	2010-07-12T11:05:37	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	395334259.184000	395335229.99495	On-chip summing requested	N	N
Observation end date	2010-07-12T15:03:13	2010-07-12T15:20:29	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



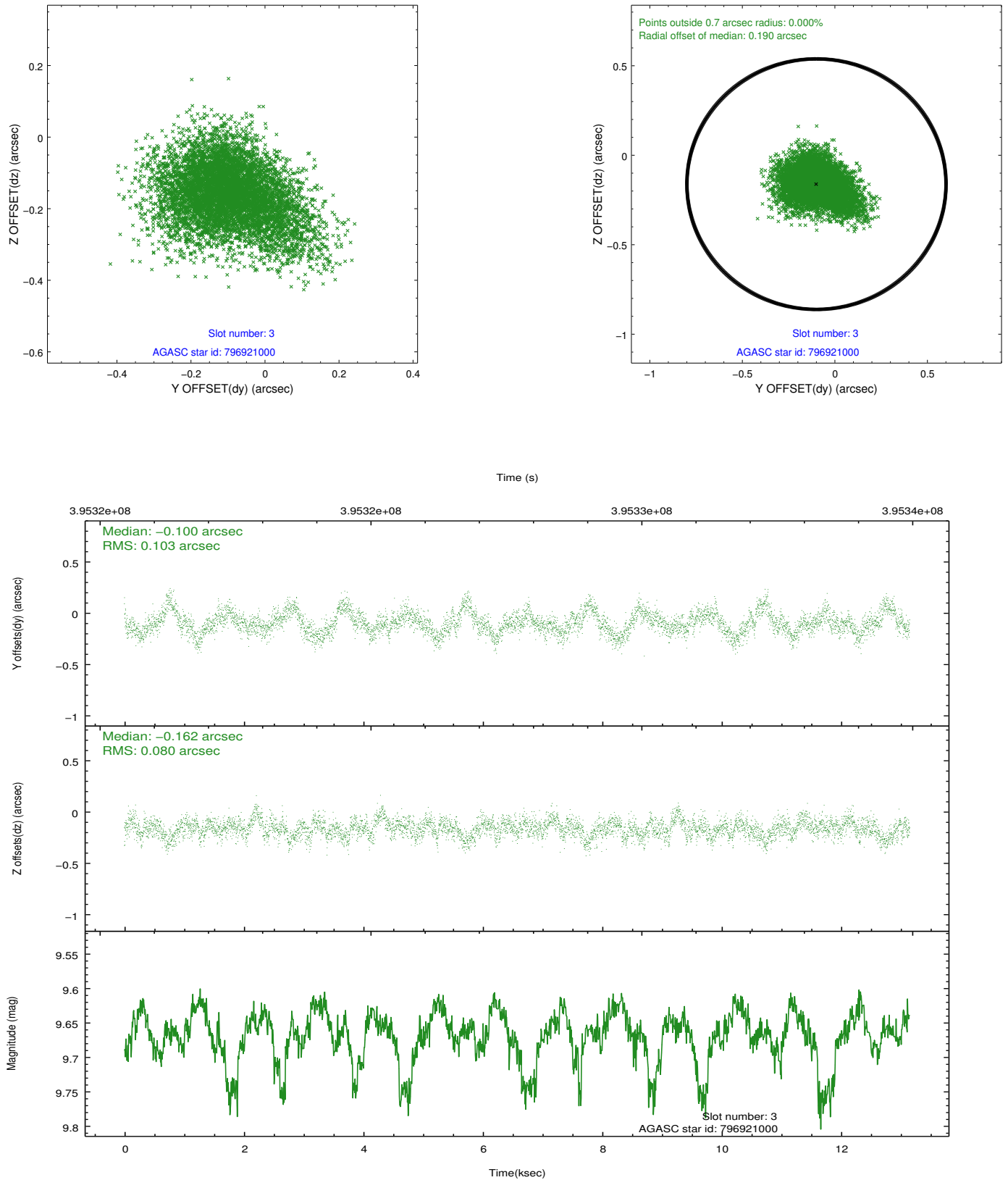


Slot Statistics

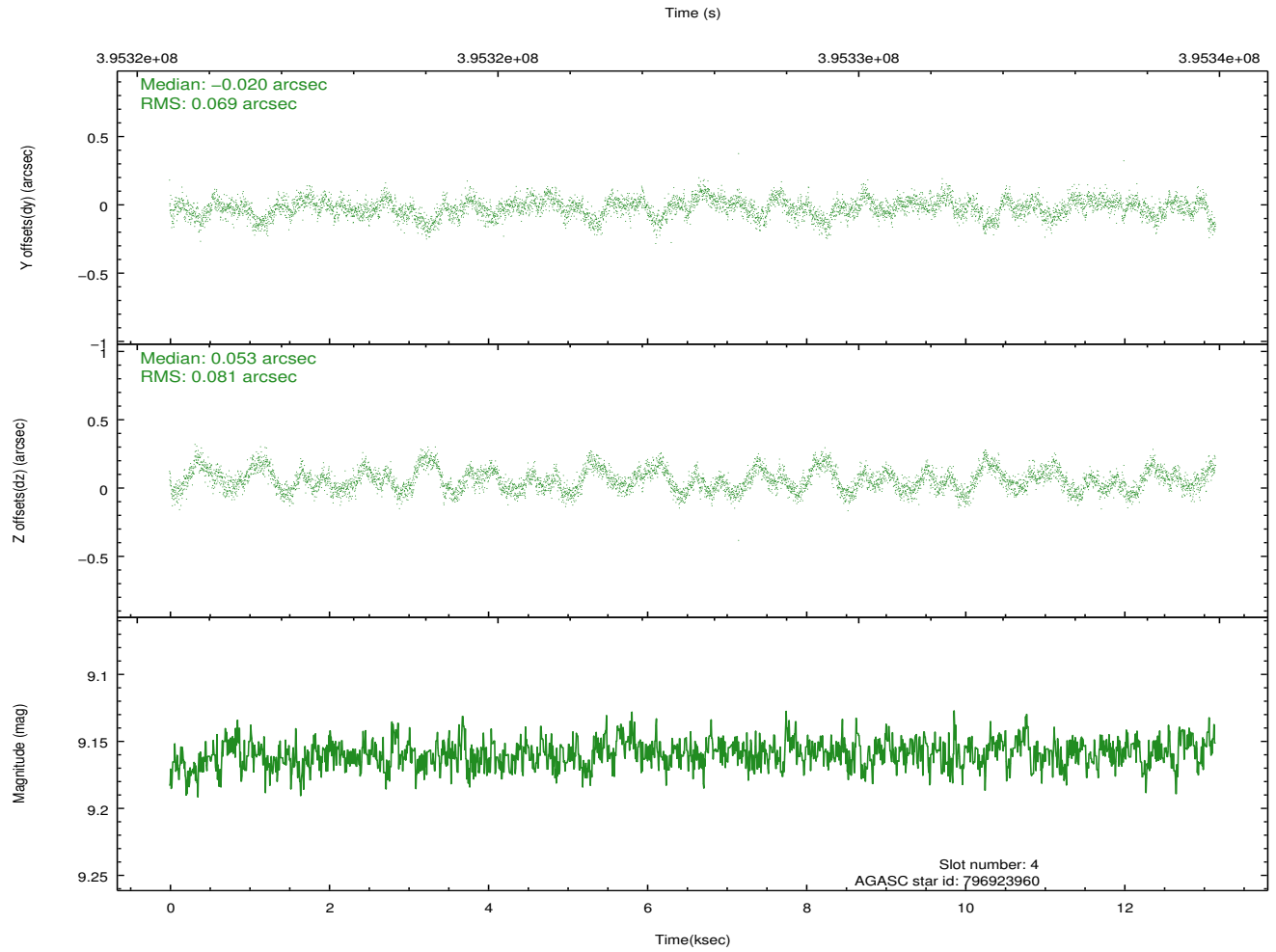
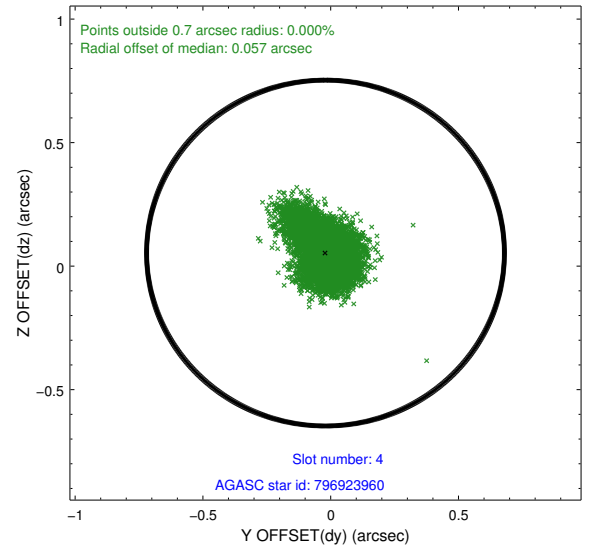
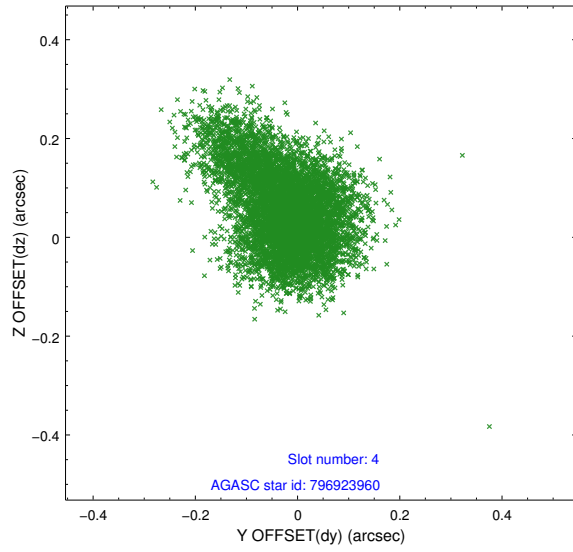
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.89	3208	-0.071	-0.045	0.008	0.014	0.000000	0.000000	-769.07	-1739.01
1	FID	ACIS-S-4	6.98	3208	0.168	0.046	0.014	0.025	0.000000	0.000000	2144.34	169.09
2	FID	ACIS-S-5	7.00	3208	-0.130	0.007	0.012	0.020	0.000000	0.000000	-1821.45	163.26
3	GUIDE	796921000	9.67	6395	-0.100	-0.162	0.137	0.233	166.658084	-18.401963	168.49	185.67
4	GUIDE	796923960	9.16	6401	-0.020	0.053	0.111	0.189	167.114946	-18.113690	-1569.24	890.13
5	GUIDE	796928784	8.42	6415	-0.046	0.019	0.102	0.148	166.853792	-17.800971	-1995.55	-482.84
6	GUIDE	796930880	9.88	6393	0.070	-0.051	0.202	0.302	166.119482	-18.145311	449.60	-1855.00
7	GUIDE	796931344	10.31	6362	0.096	0.124	0.225	0.350	166.706582	-18.871960	1471.46	1278.03

2.4 Star Slots

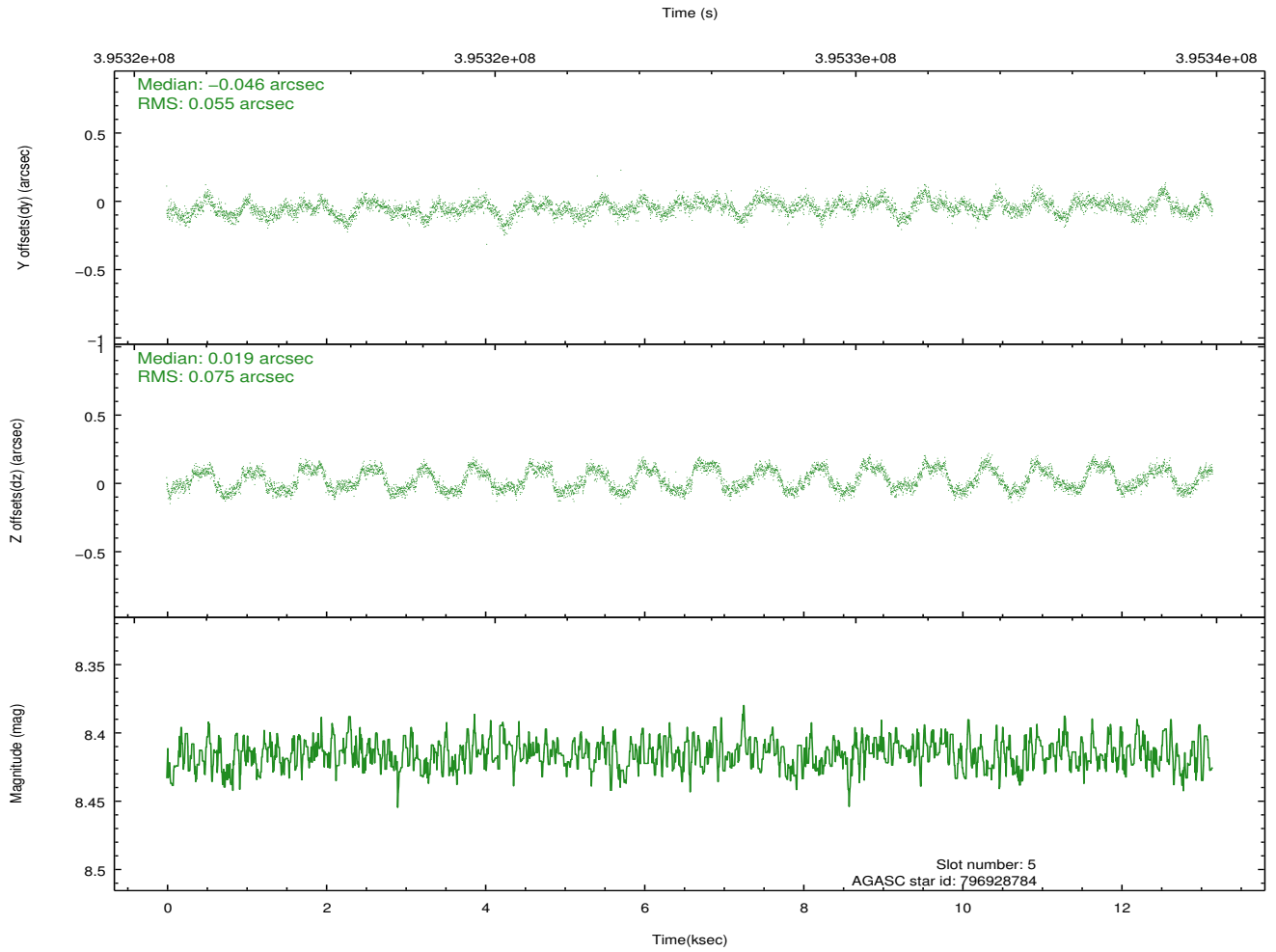
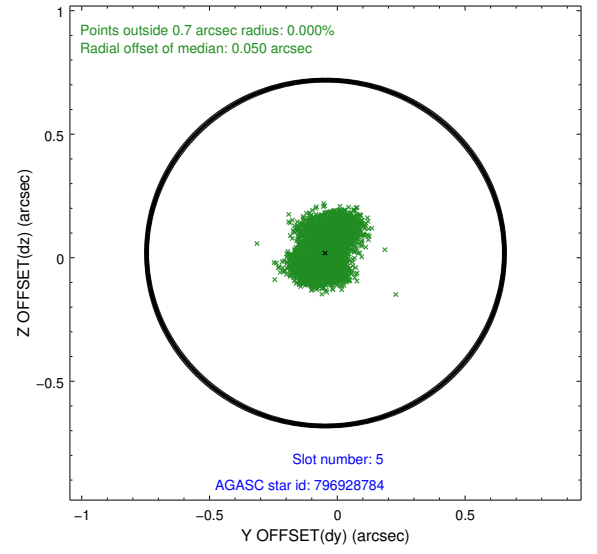
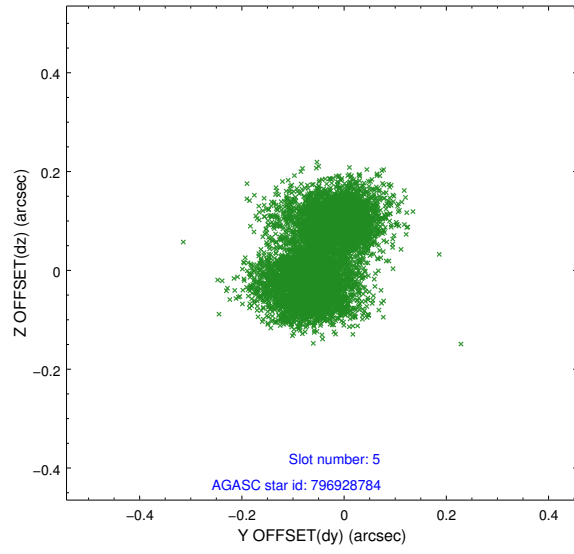
2.4.1 Slot 3



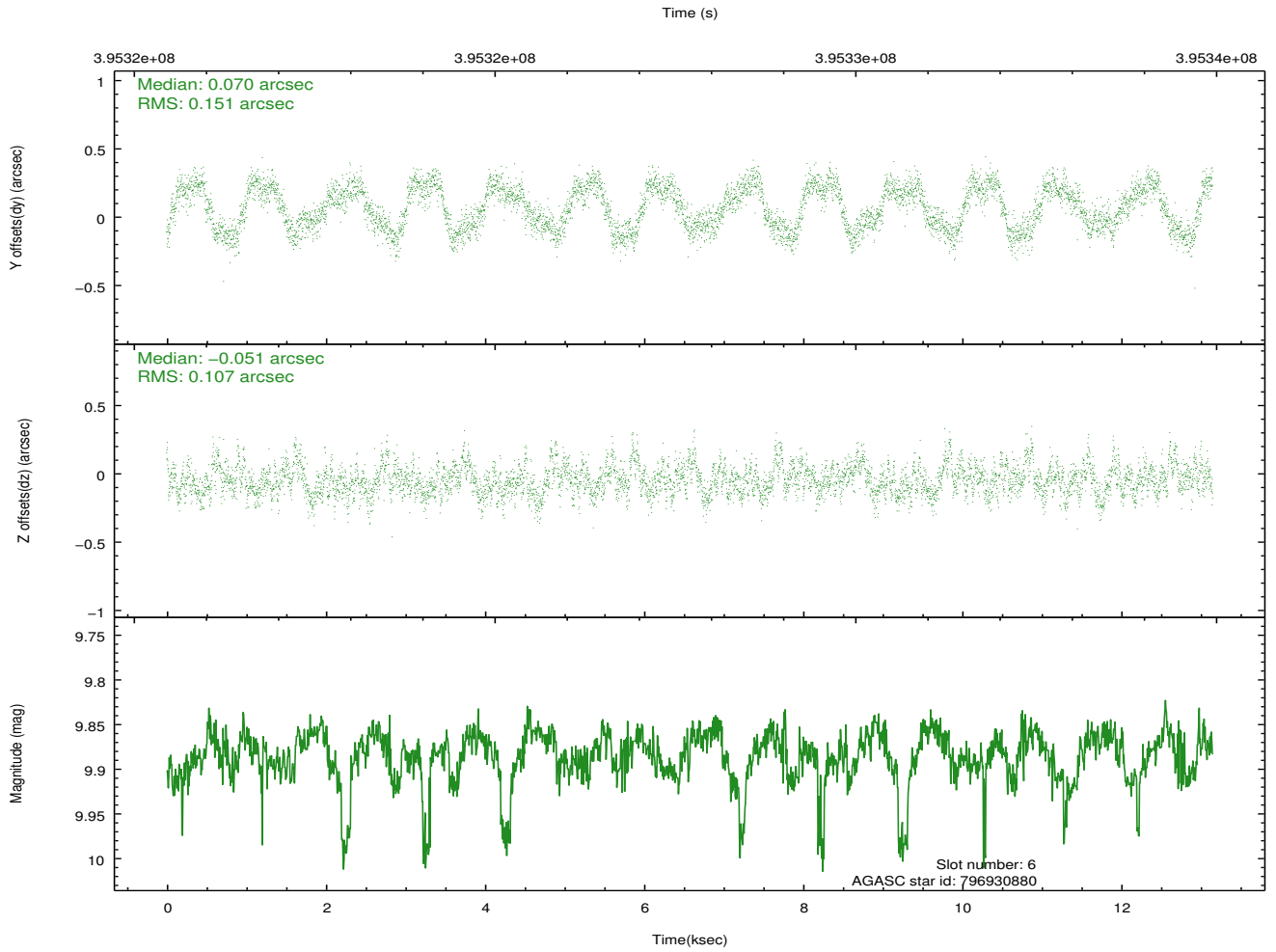
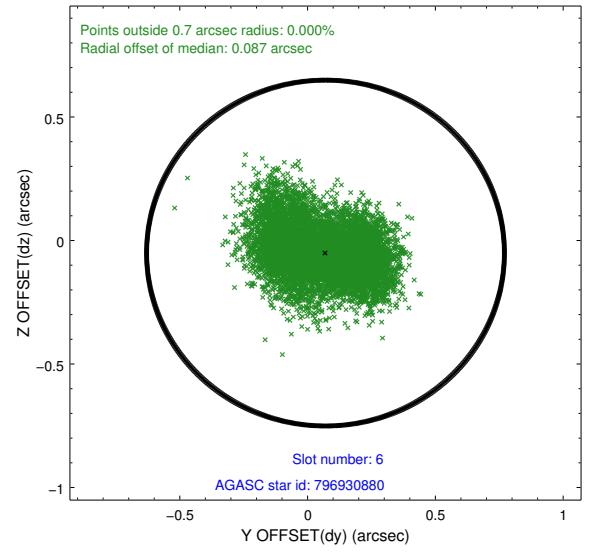
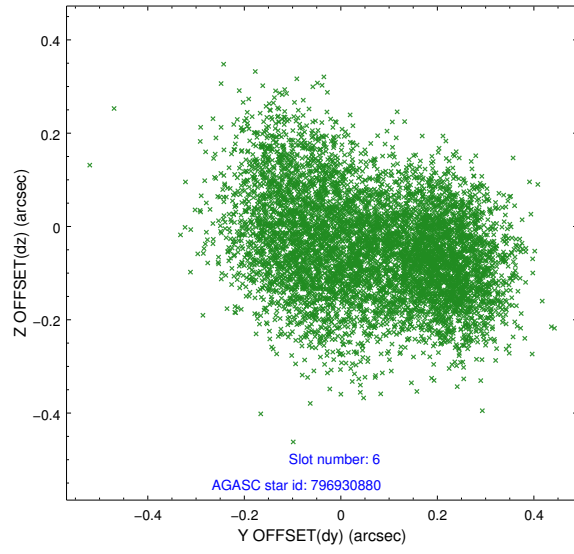
2.4.2 Slot 4



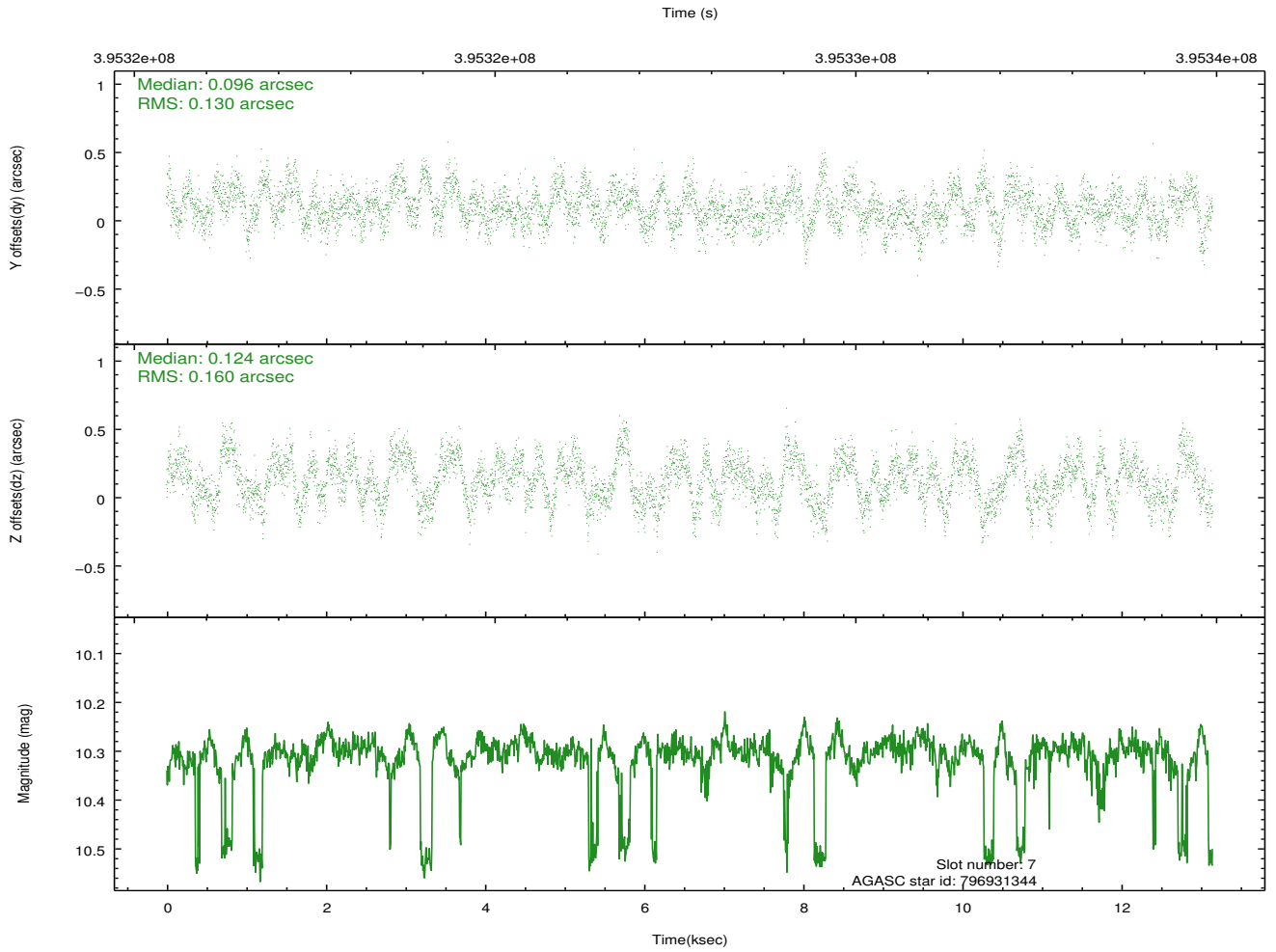
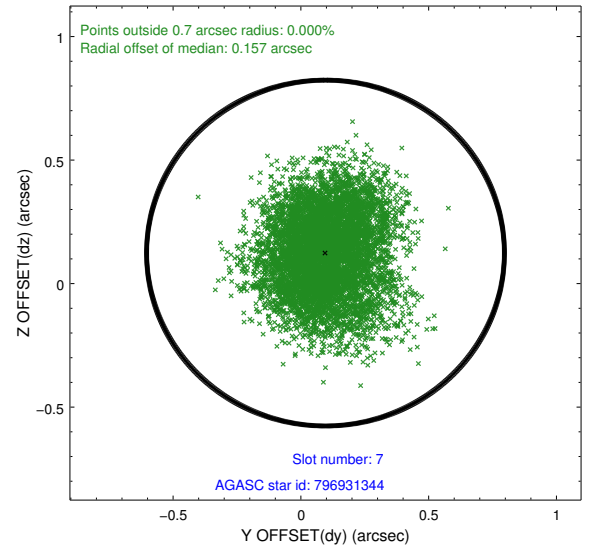
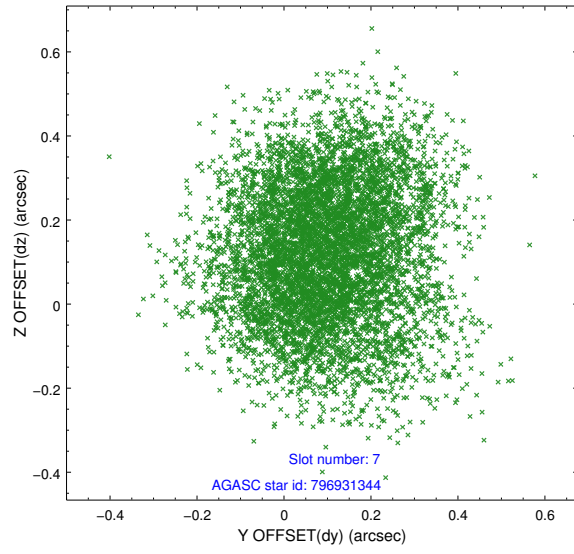
2.4.3 Slot 5



2.4.4 Slot 6

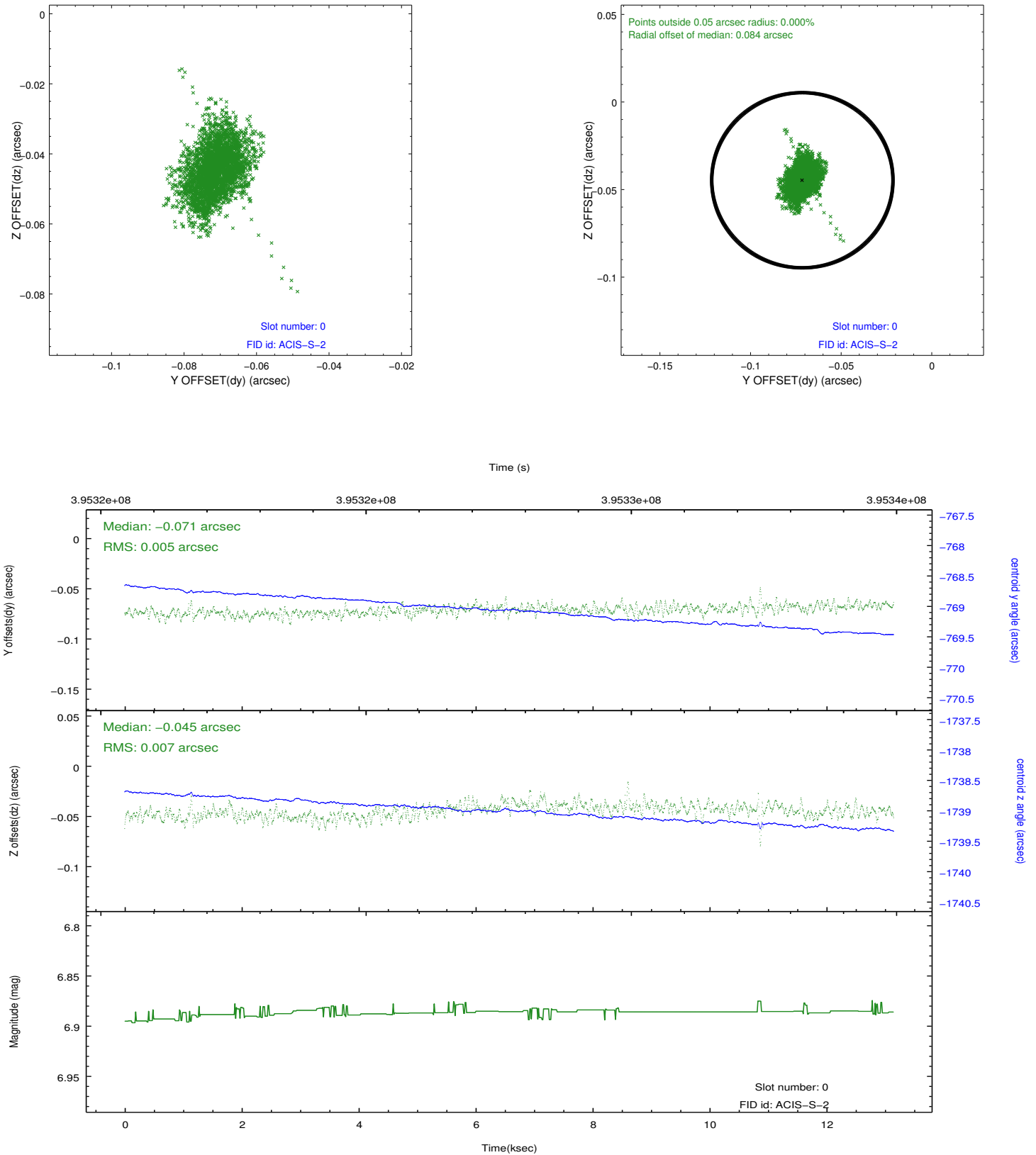


2.4.5 Slot 7

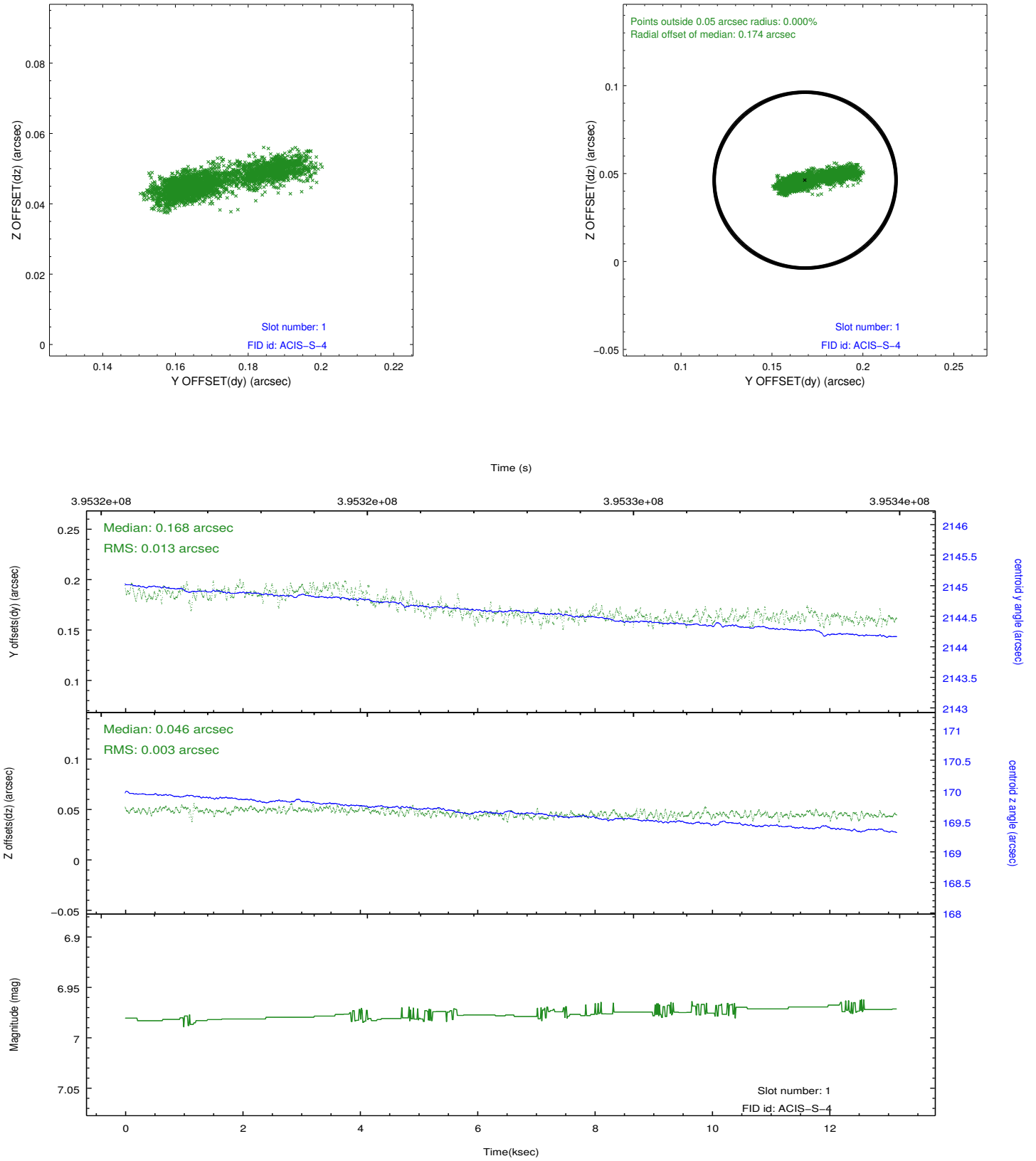


2.5 FID Slots

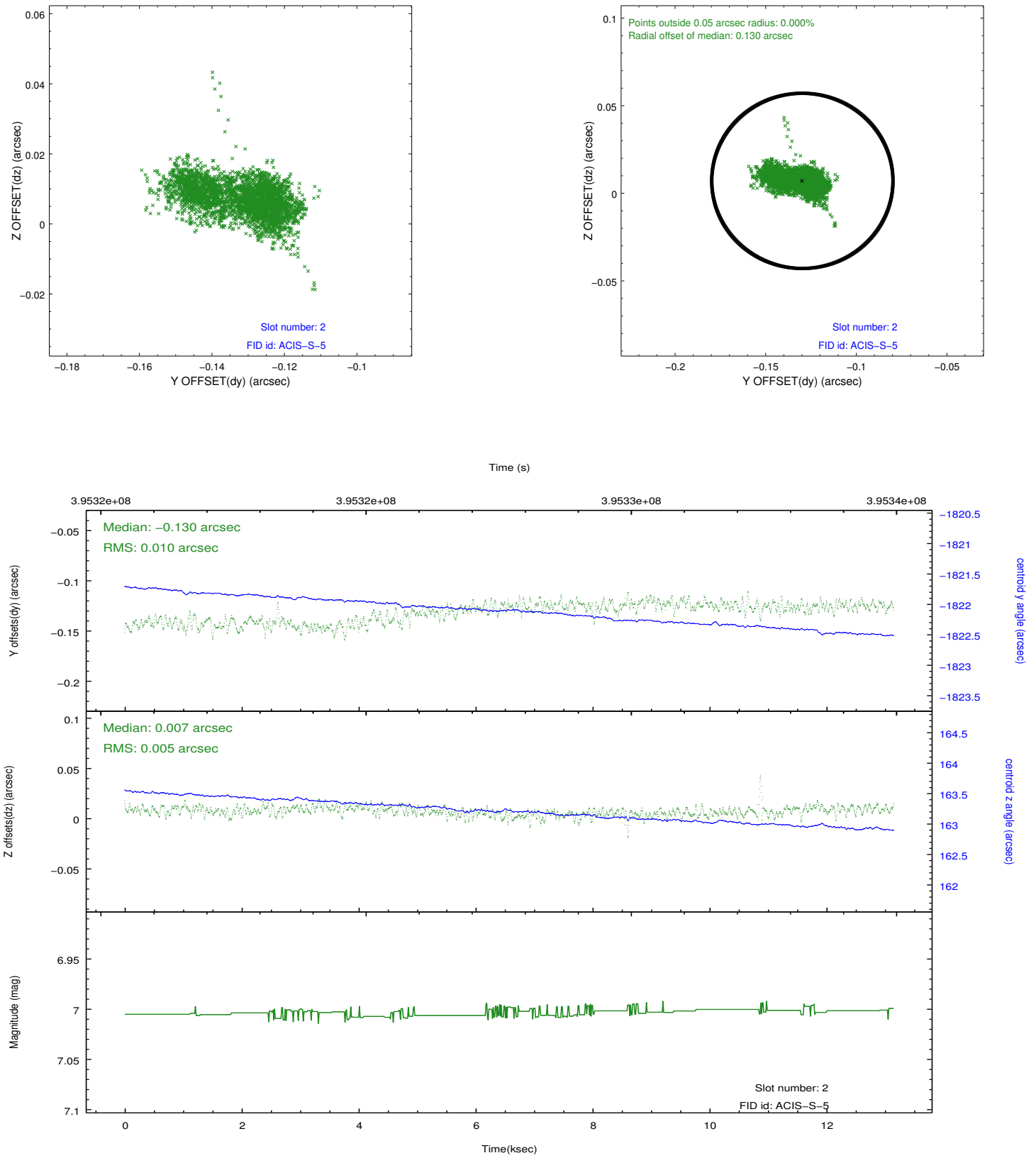
2.5.1 Slot 0



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)	2012.07.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.065808151841

A.2 Comments

Monitor constraint met, follows obs11553 by 153 days.