

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 17460 - L2 Version 1
Chandra X-Ray Center

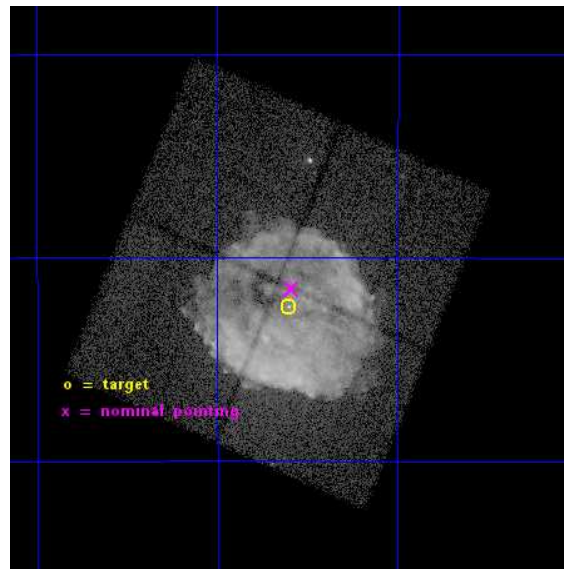
L2 Processing Date : Jan 14 2015

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1 Front

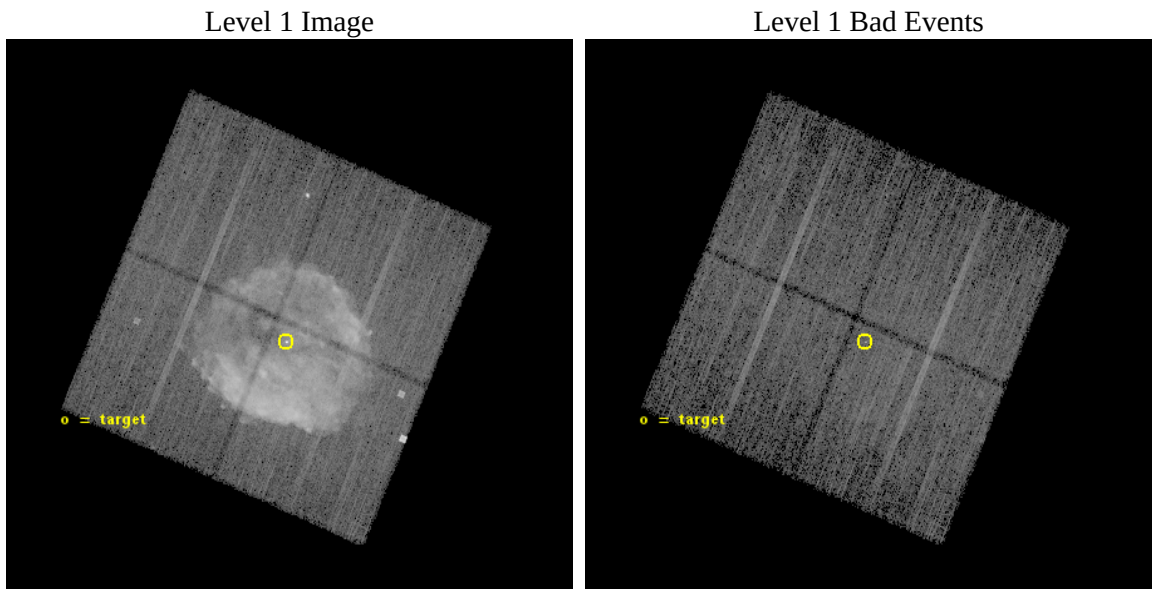
seq_num	601216	Sequence number
obs_id	17460	Observation id
title	Study of RCW103 and its slow pulsar	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	RCW103	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	244.40125	Observer's specified target RA [deg]
dec_targ	-51.040278	Observer's specified target Dec [deg]
ra_nom	244.39721944433	Nominal RA [deg]
dec_nom	-51.025647883609	Nominal Dec [deg]
roll_nom	113.20554203348	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25086.871872425	Sum of GTIs [s]
livetime	24759.093422725	Livetime [s]
ontime0	25083.607692242	Sum of GTIs [s]
ontime1	25086.789792418	Sum of GTIs [s]
ontime2	25086.830832481	Sum of GTIs [s]
ontime3	25086.871872425	Sum of GTIs [s]
l2events	586877	Number of level 2 events



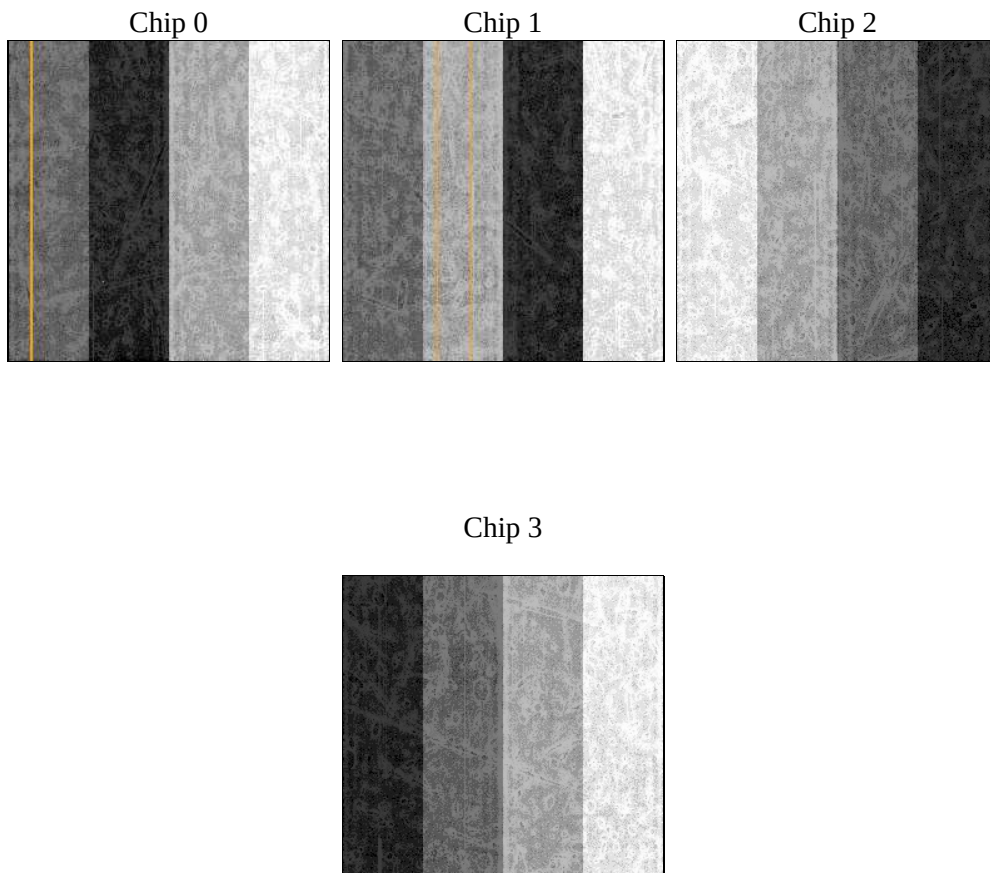
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	25086.871872425	Sum of GTIs [s]
caldsver	4.6.5	 	ontime0	25083.607692242	Sum of GTIs [s]
date	2015-01-14T12:34:29	Date and time of file creation	ontime1	25086.789792418	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25086.830832481	Sum of GTIs [s]
			ontime3	25086.871872425	Sum of GTIs [s]
			l1events	1081203	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	158787	236945	230094	455377
rejected events	105493	105227	117422	121630
rejected %	66%	44%	51%	26%

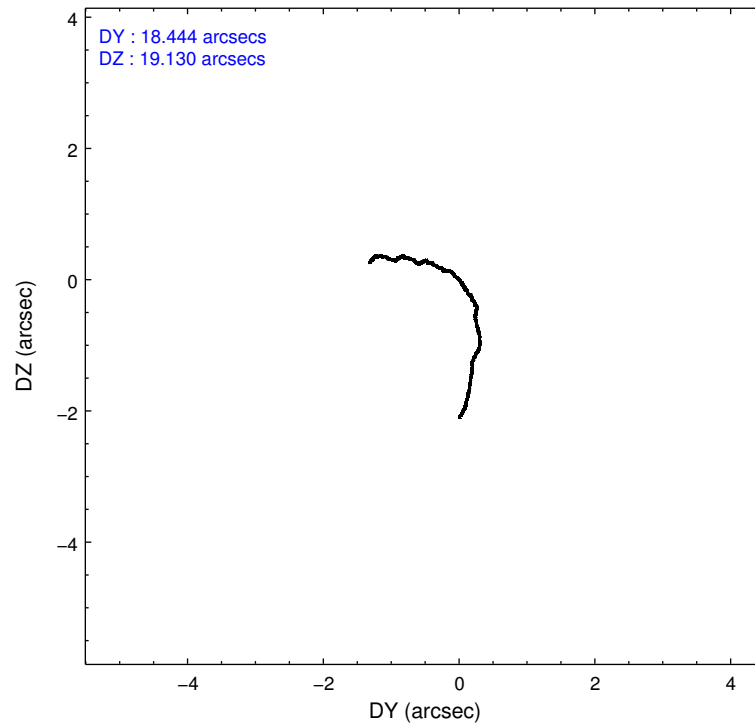
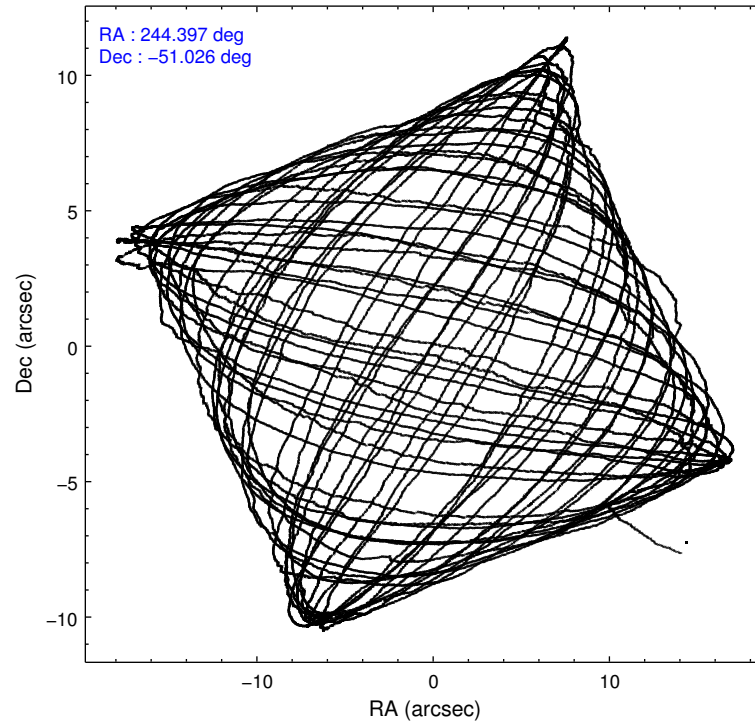
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	37774	105520	91250	275139
	23%	44%	39%	60%
grade 1 events	180	389	421	1174
	0%	0%	0%	0%
grade 2 events	7154	13585	10848	37294
	4%	5%	4%	8%
grade 3 events	2378	3875	3516	7804
	1%	1%	1%	1%
grade 4 events	2218	3975	3316	7881
	1%	1%	1%	1%
grade 5 events	6204	6589	6223	7624
	3%	2%	2%	1%
grade 6 events	3778	4776	3762	5677
	2%	2%	1%	1%
grade 7 events	99101	98236	110758	112784
	62%	41%	48%	24%

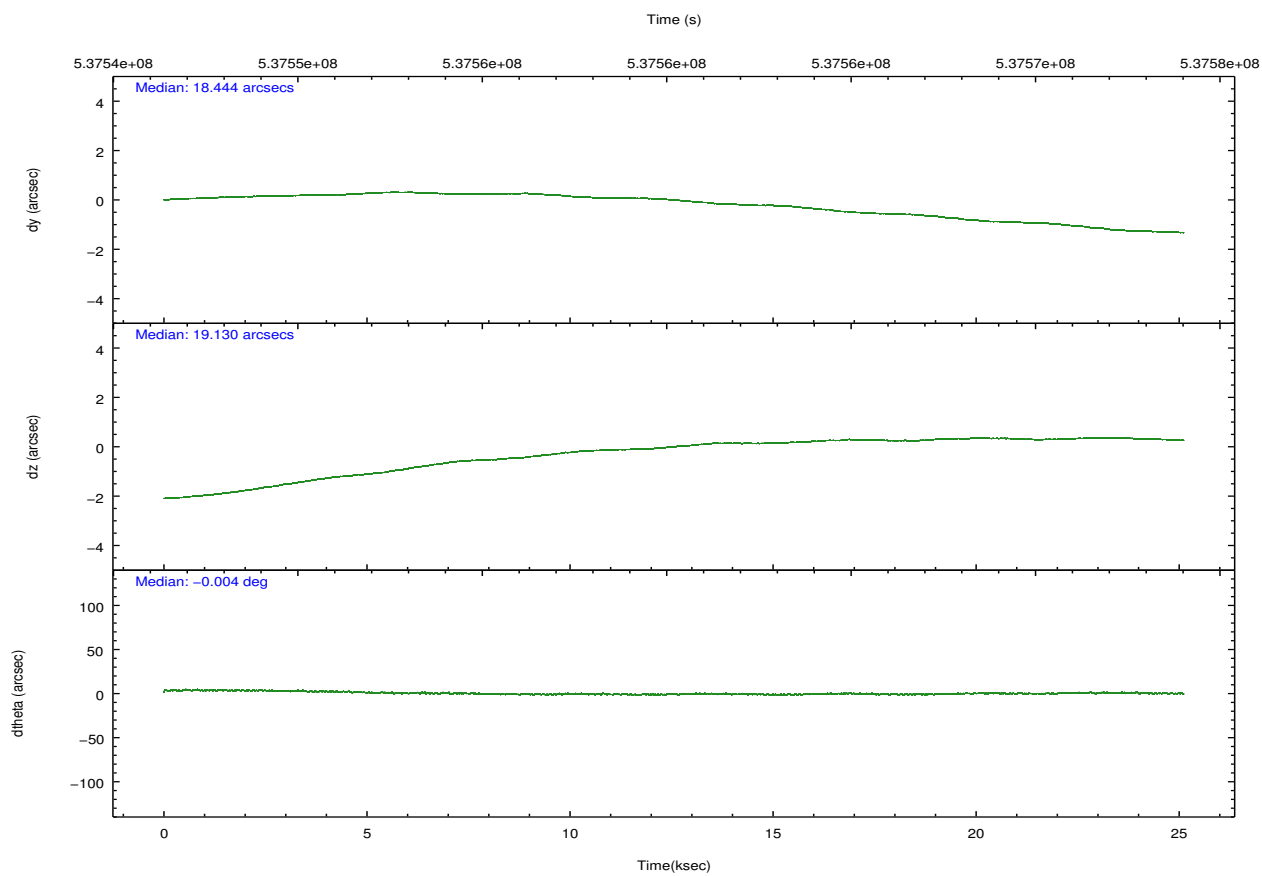
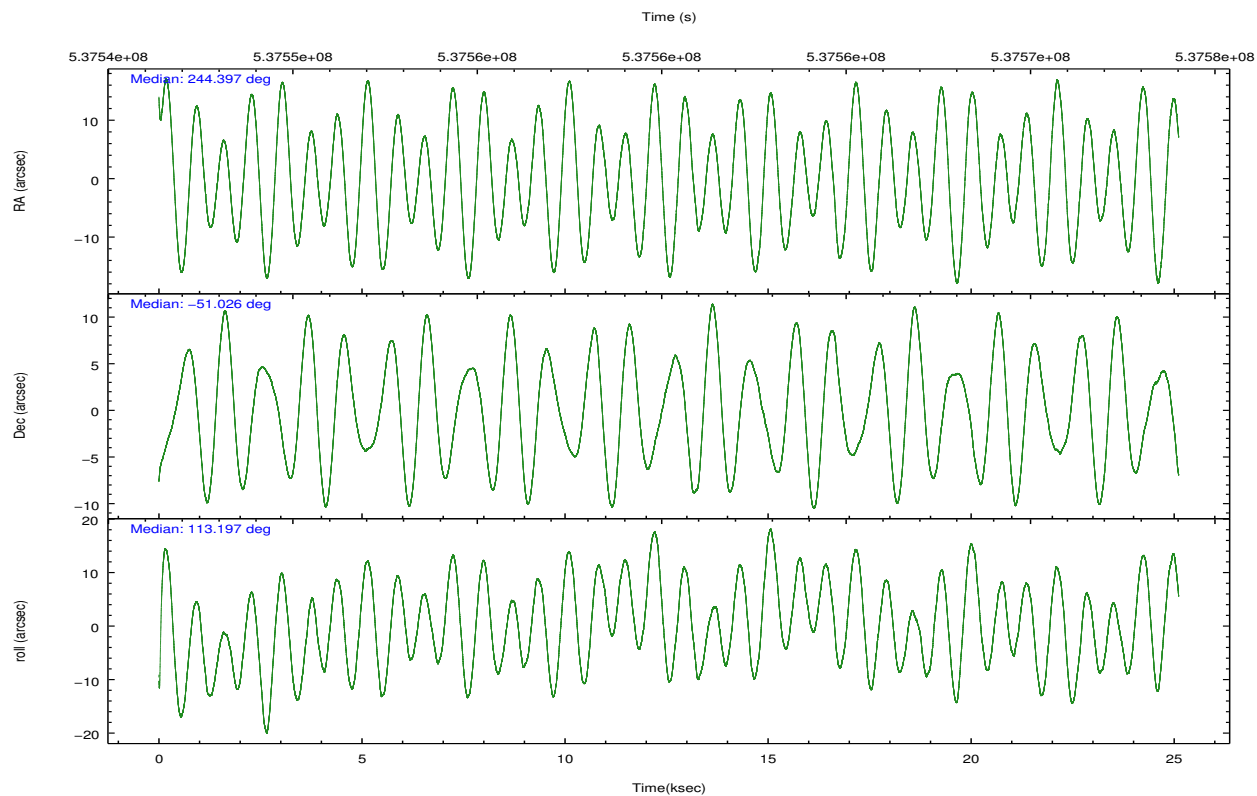
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	244.432430	244.3972194443338
[deg] Pointing Dec	-51.042102	-51.02564788360863
[deg] Pointing Roll	113.024249	113.2055420334842
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	537547759.184000	537546545.01273
Observation start date	2015-01-13T14:48:12	2015-01-13T14:29:05
[s] Observation end time (MET)	537572759.184000	537573709.0517401
Observation end date	2015-01-13T21:44:52	2015-01-13T22:01:49
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



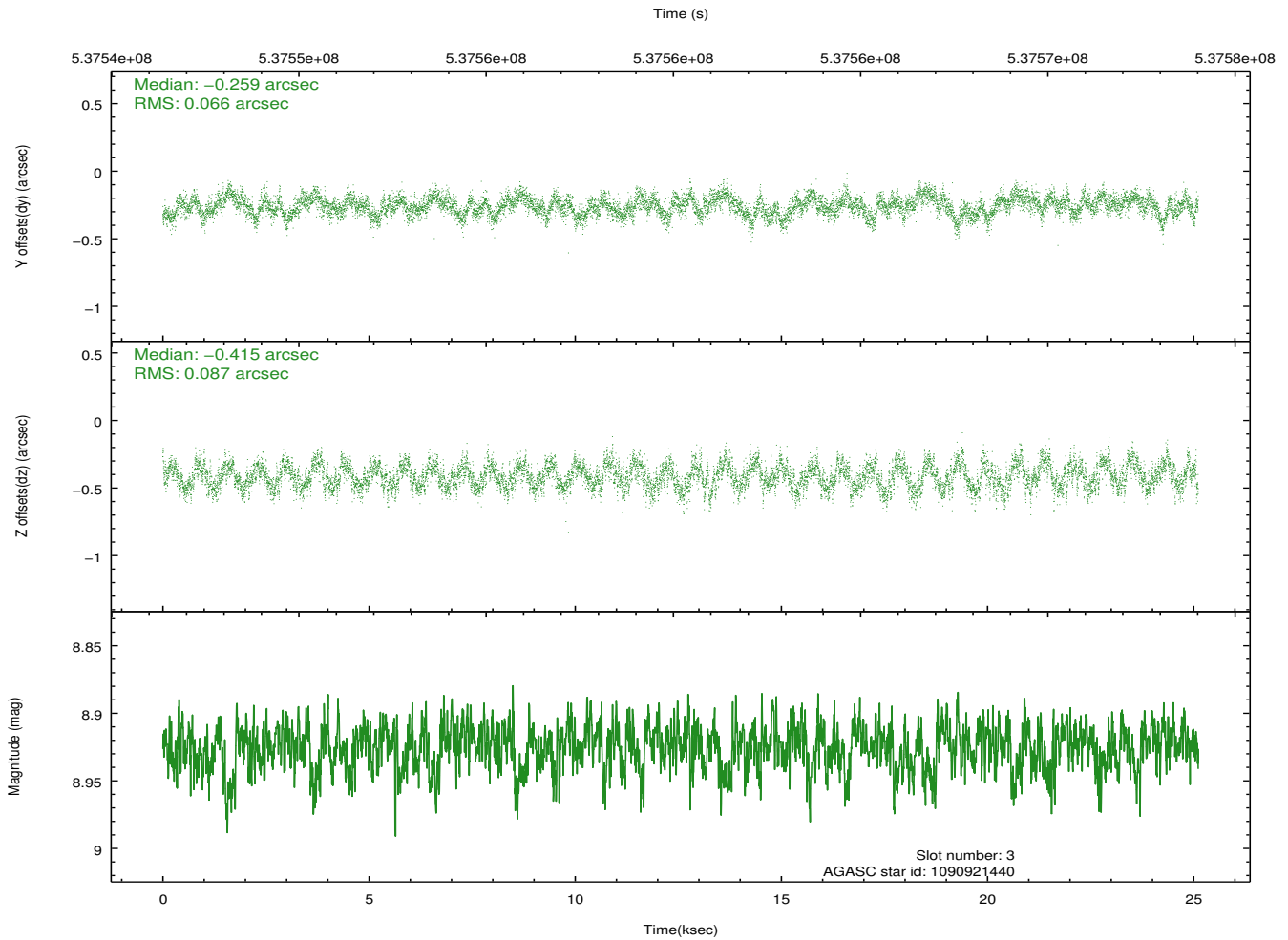
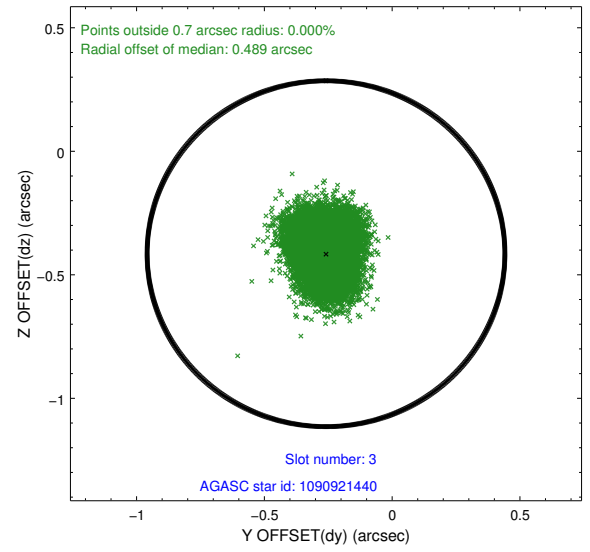
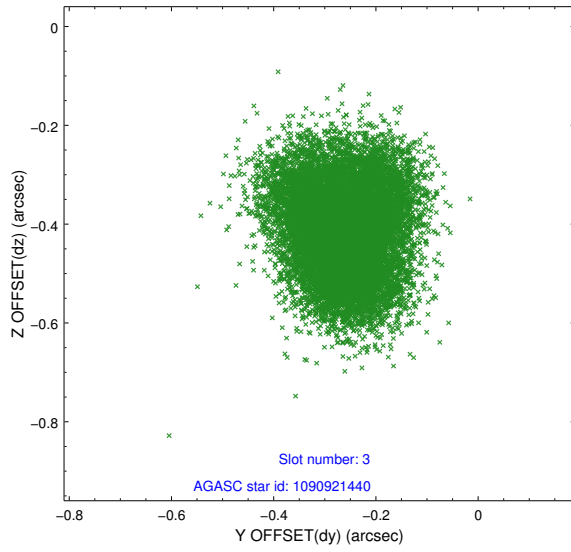


Slot Statistics

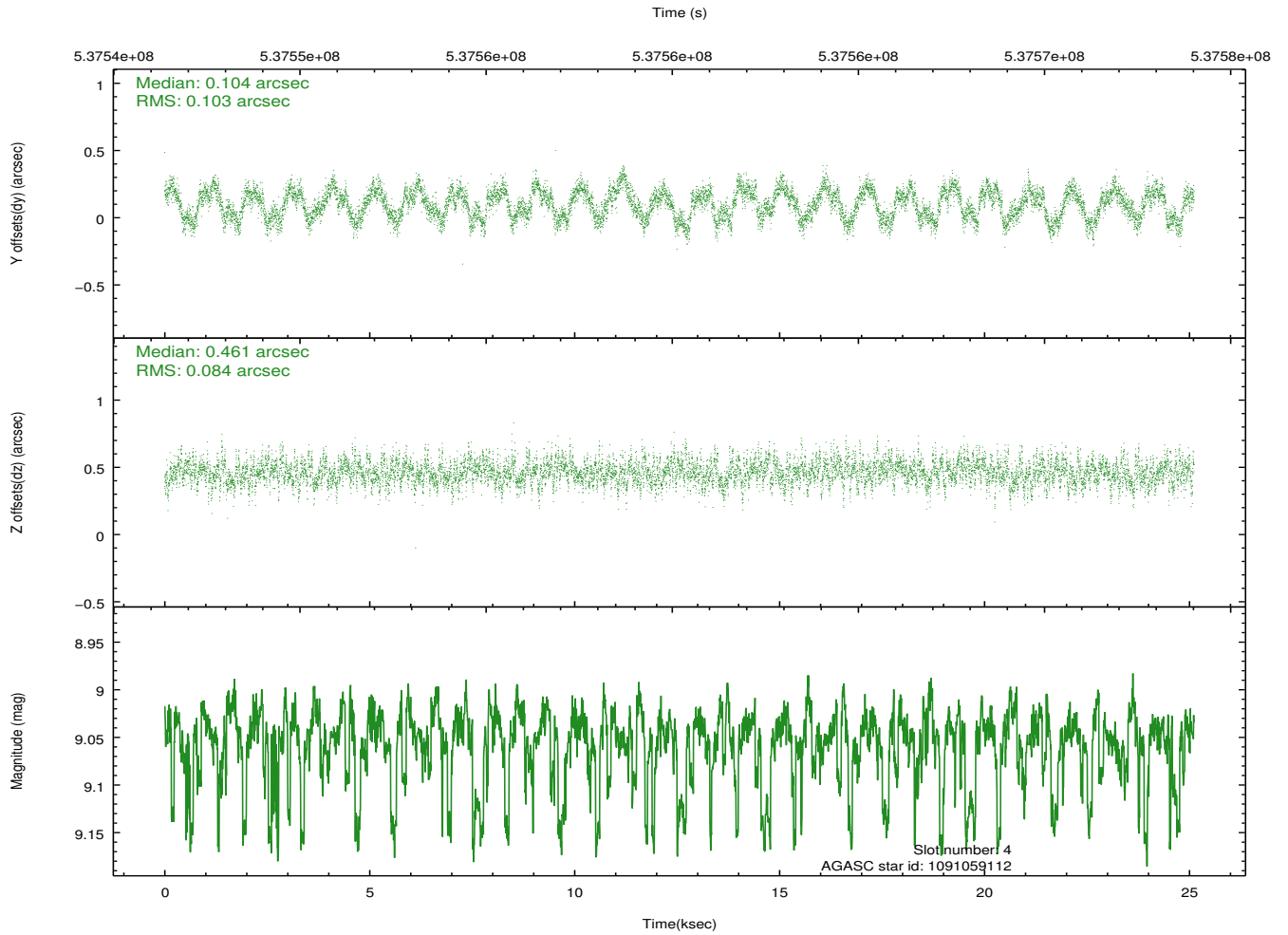
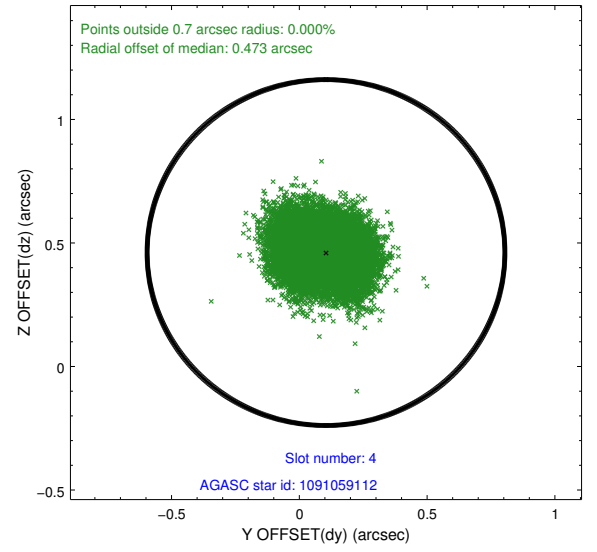
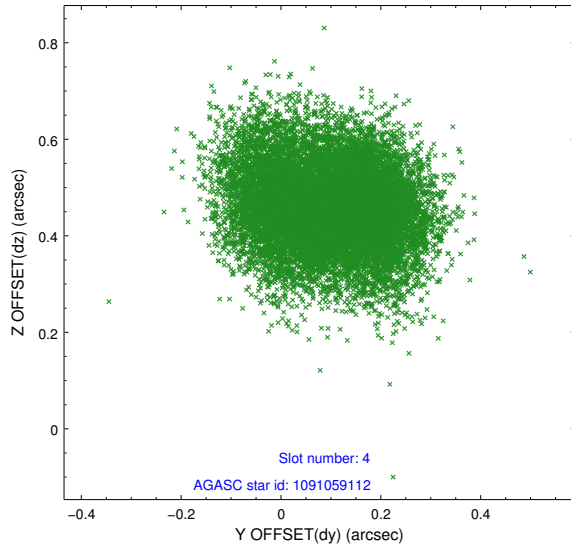
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.15	6125	0.052	0.020	0.015	0.067	0.000000	0.000000	921.26	-842.45
1	FID		ACIS-I-5	7.14	6126	-0.304	0.041	0.019	0.032	0.000000	0.000000	-1827.21	1054.92
2	FID		ACIS-I-6	7.15	6125	0.155	0.010	0.013	0.034	0.000000	0.000000	386.69	1699.60
3	GUIDE	used	1090921440	8.92	12240	-0.259	-0.415	0.118	0.186	243.292741	-50.752608	1955.62	1989.49
4	GUIDE	used	1091059112	9.05	12241	0.104	0.461	0.144	0.220	245.180420	-50.736664	338.26	-1994.10
5	GUIDE	used	1090924384	8.04	12247	-0.248	-0.446	0.089	0.143	243.330505	-50.934017	1318.52	2156.27
6	GUIDE	used	1090922592	8.64	12242	-0.097	-0.289	0.092	0.152	243.541382	-50.784876	1628.00	1511.61
7	GUIDE	used	1091057912	9.11	12236	0.507	0.687	0.129	0.206	245.642757	-51.112070	-1321.30	-2409.07

2.4 Star Slots

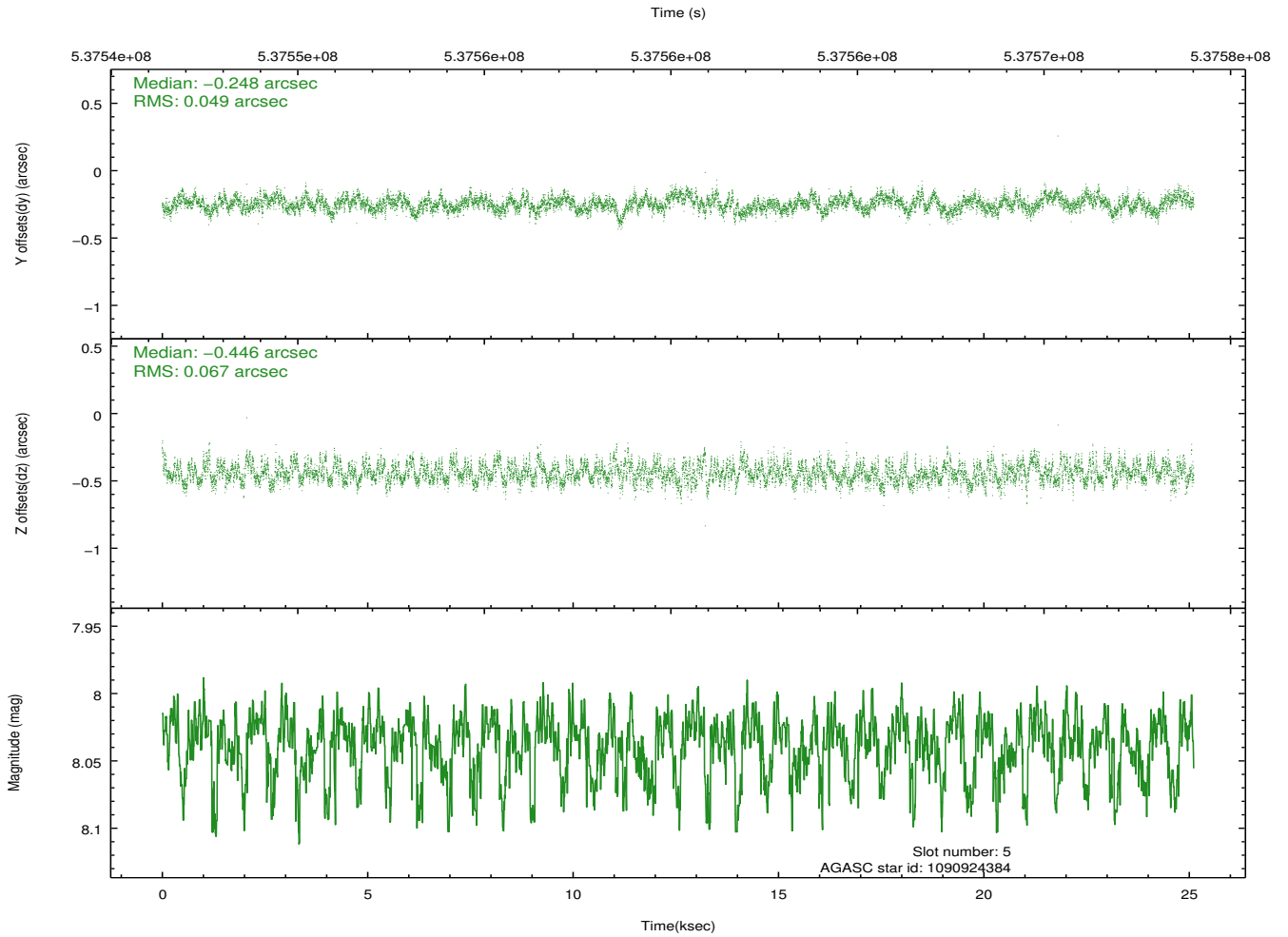
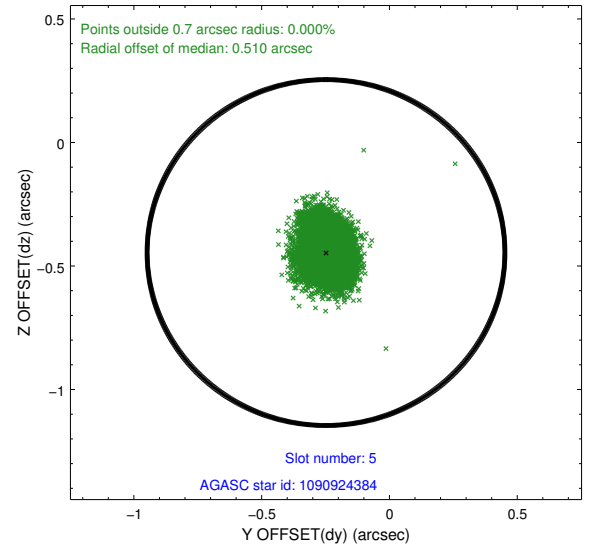
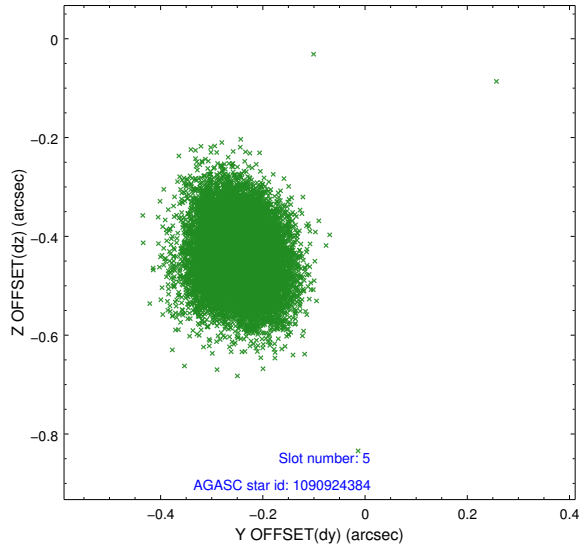
2.4.1 Slot 3



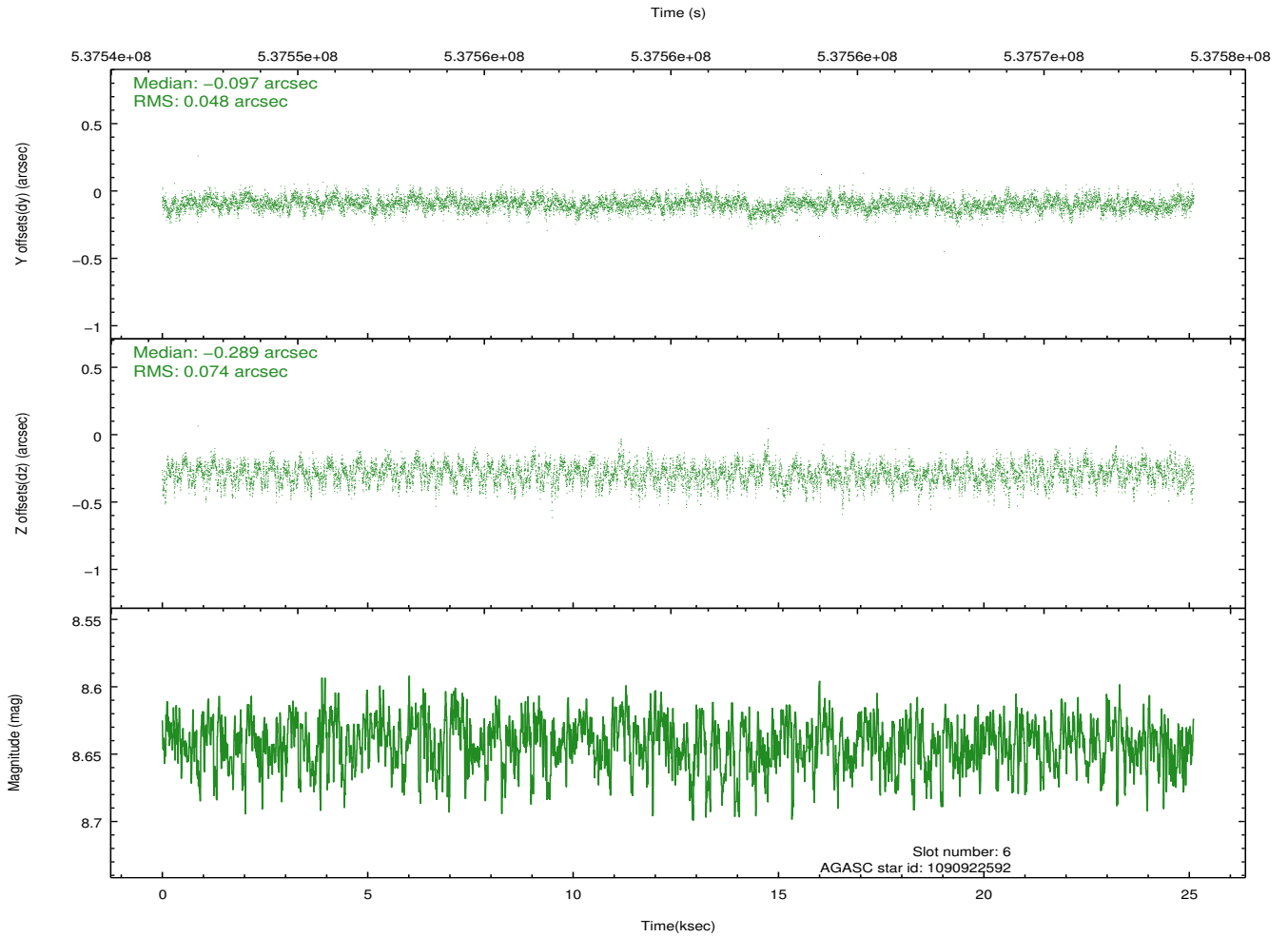
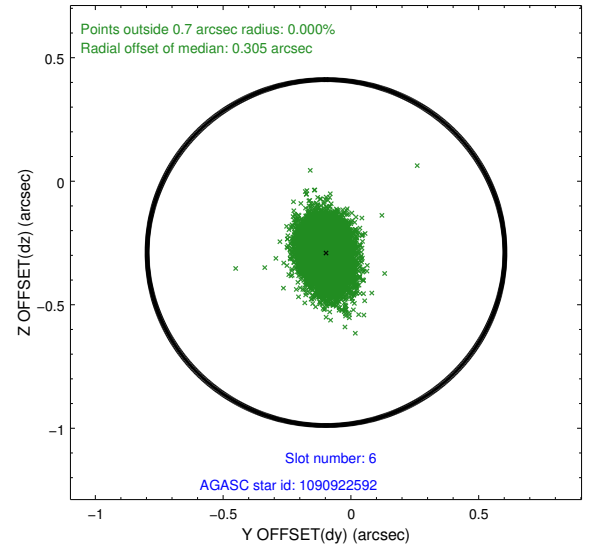
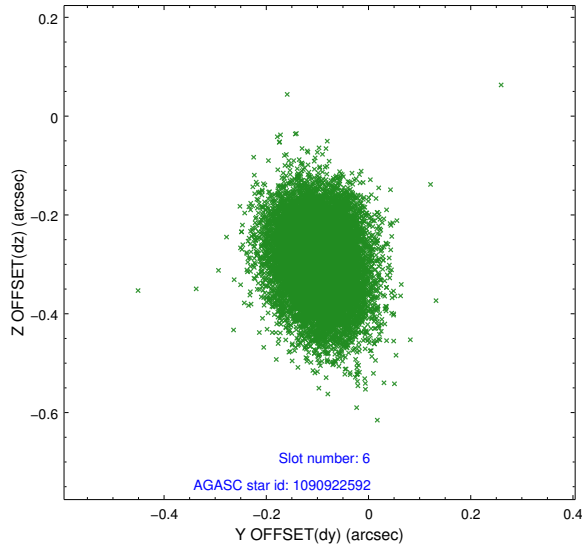
2.4.2 Slot 4



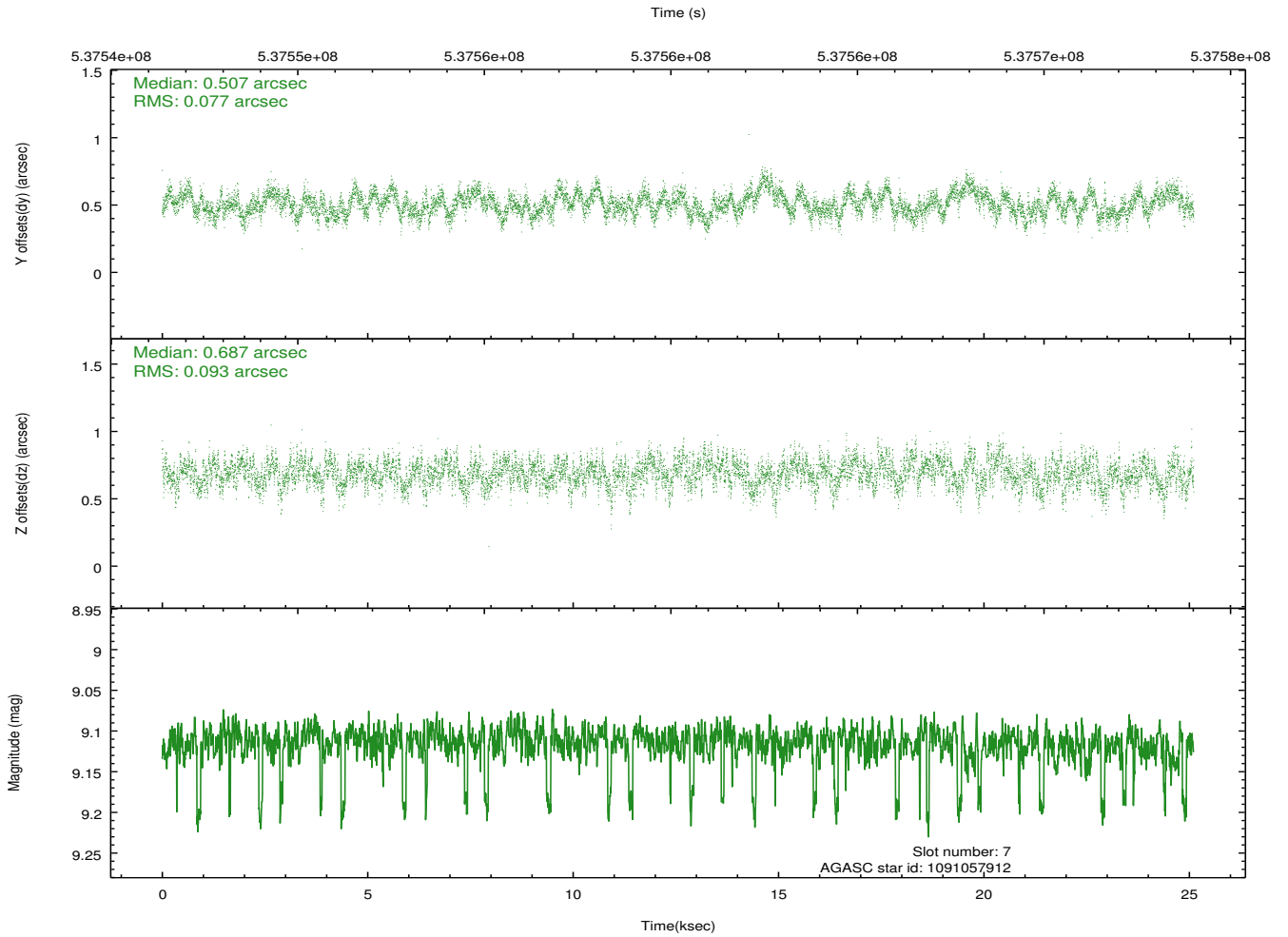
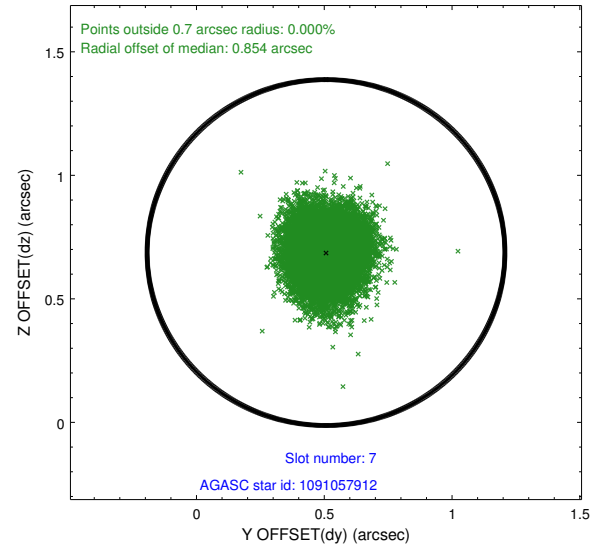
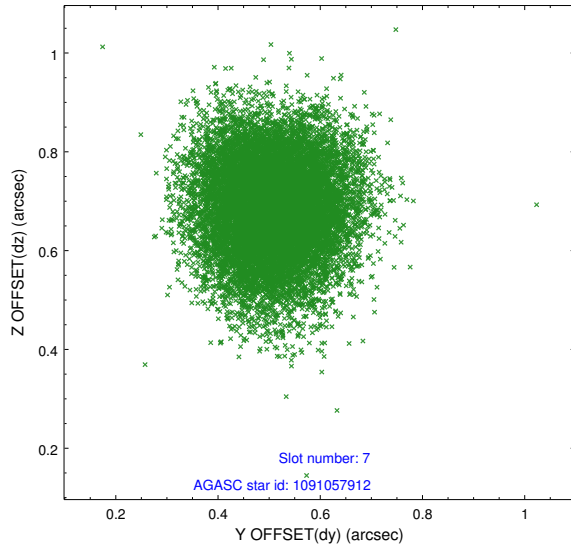
2.4.3 Slot 5



2.4.4 Slot 6

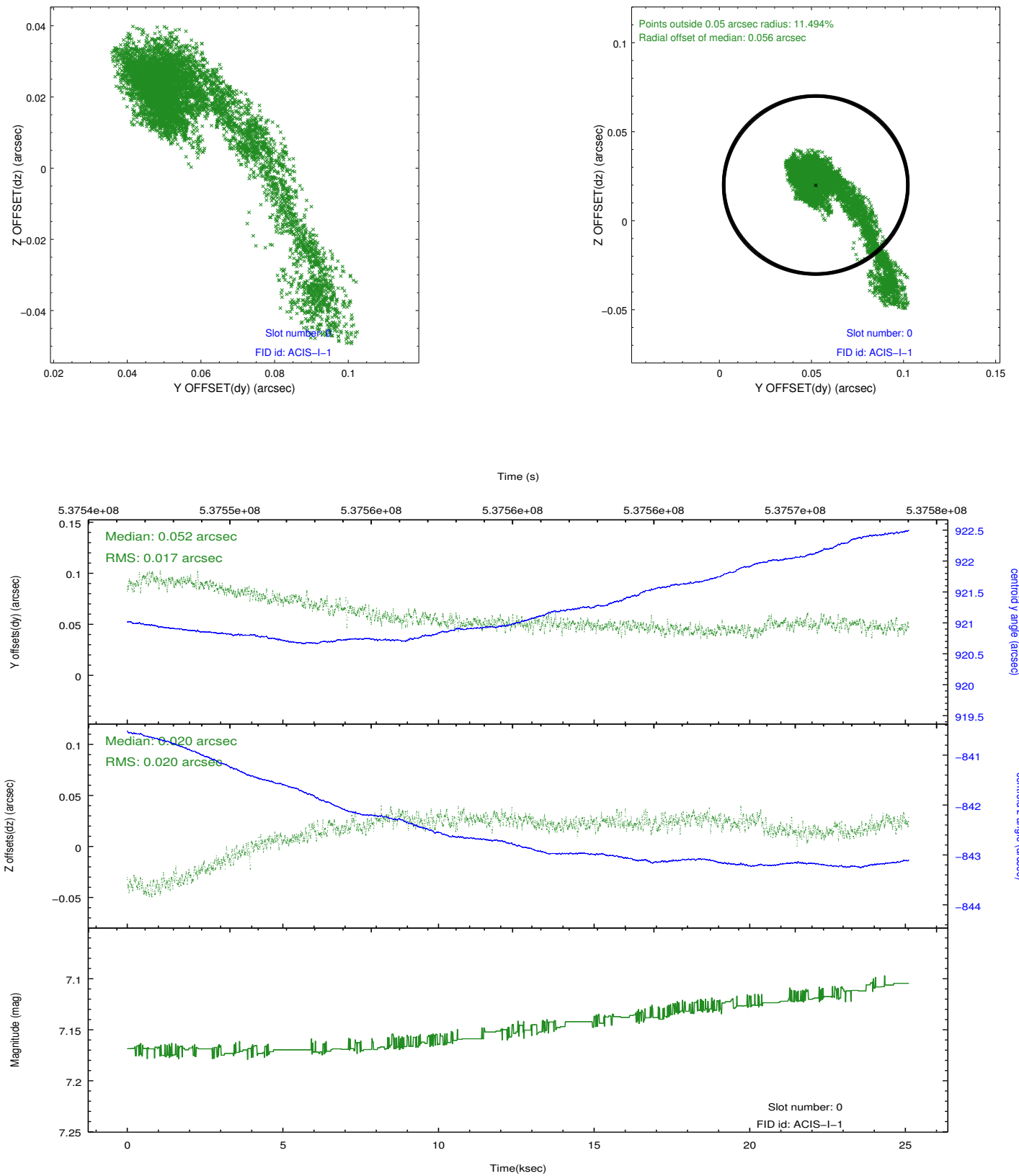


2.4.5 Slot 7

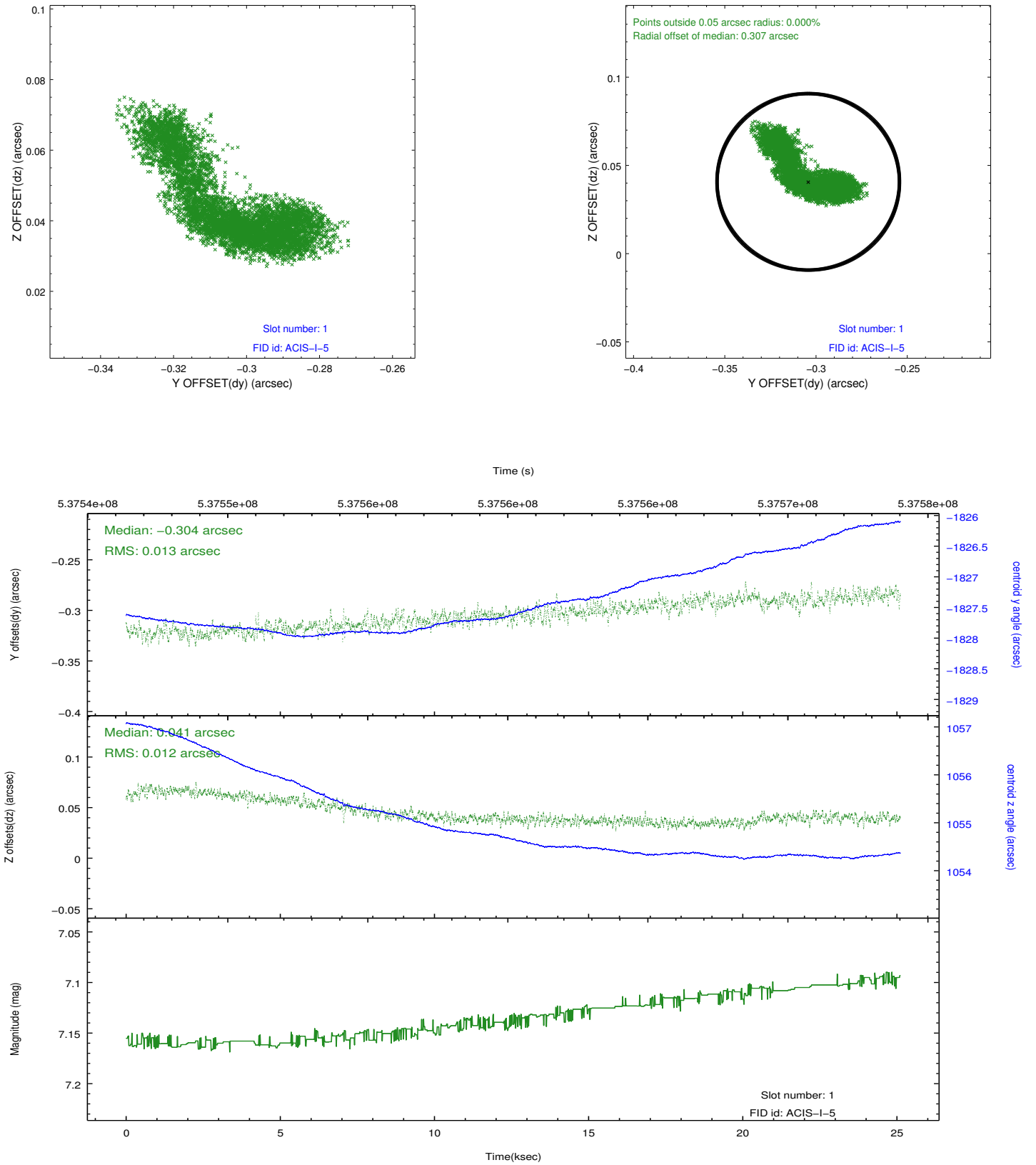


2.5 FID Slots

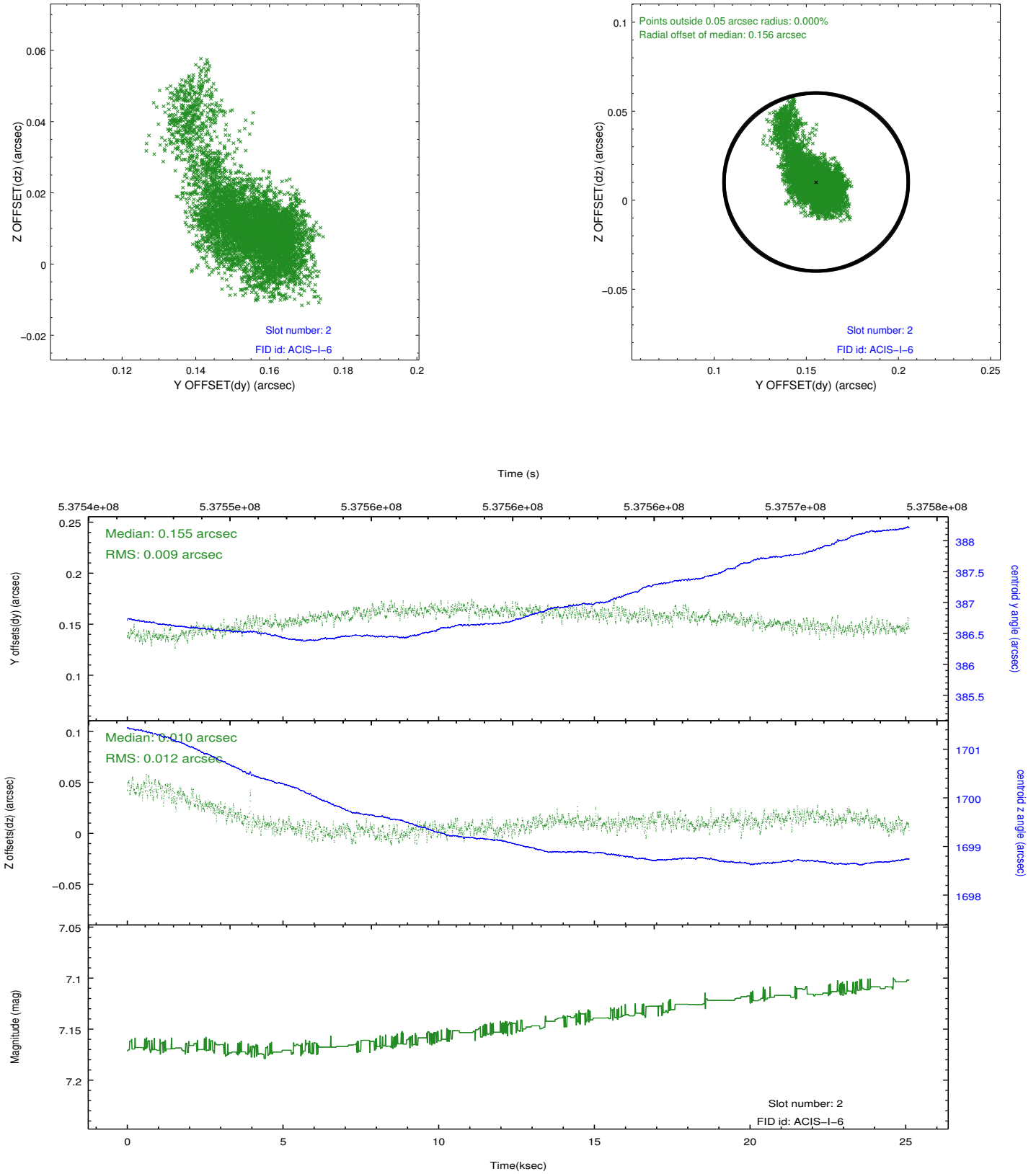
2.5.1 Slot 0



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)	2015.01.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.086871872425

A.2 Comments