

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18129 - L2 Version 1
Chandra X-Ray Center

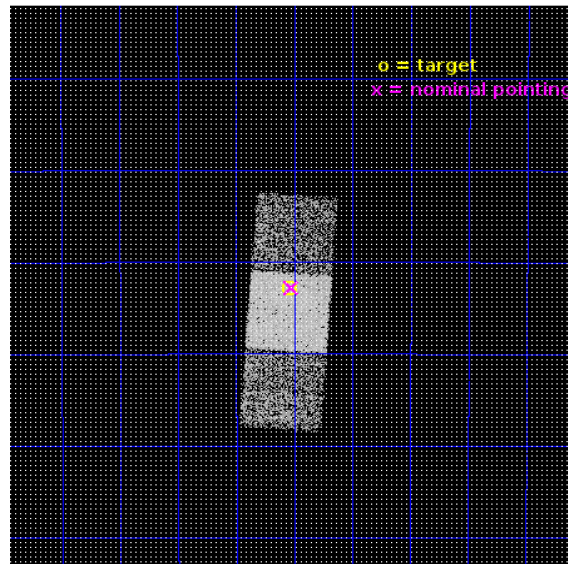
L2 Processing Date : Aug 22 2016

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1 Front

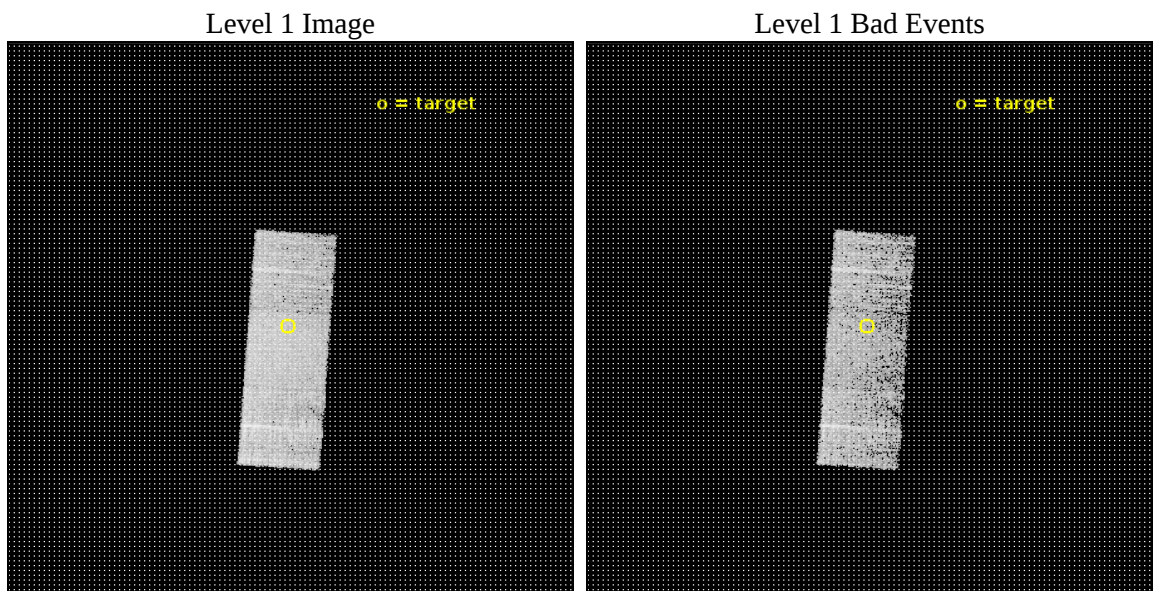
seq_num	703195	Sequence number
obs_id	18129	Observation id
title	X-RAYING FORNAX	Proposal title
observer	Elena Gallo	Principal investigator
object	fcc47	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	51.634167	Observer's specified target RA [deg]
dec_targ	-35.713556	Observer's specified target Dec [deg]
ra_nom	51.631059569371	Nominal RA [deg]
dec_nom	-35.713384850199	Nominal Dec [deg]
roll_nom	94.099479678223	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4913.5000379086	Sum of GTIs [s]
livetime	4849.3015426472	Livetime [s]
ontime6	4913.5000379086	Sum of GTIs [s]
ontime7	4913.5000379086	Sum of GTIs [s]
ontime8	4913.5000379086	Sum of GTIs [s]
l2events	23935	Number of level 2 events



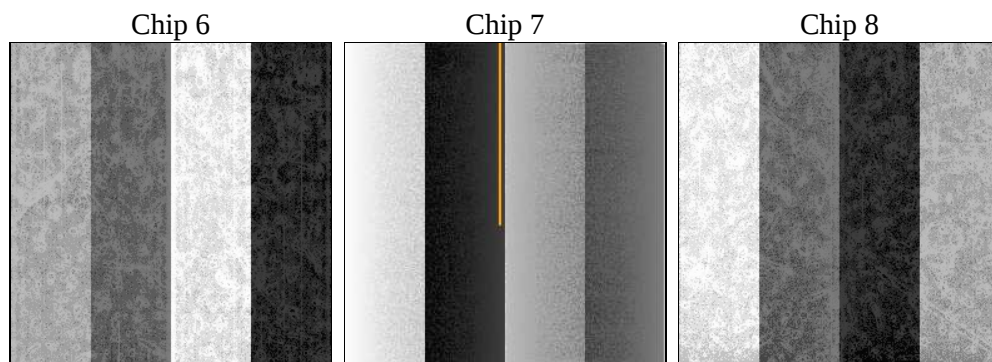
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	4800.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	4913.5000379086	Sum of GTIs [s]
caldbver	4.7.2	 	ontime6	4913.5000379086	Sum of GTIs [s]
date	2016-08-22T17:19:41	Date and time of file creation	ontime7	4913.5000379086	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	4913.5000379086	Sum of GTIs [s]
			l1events	110540	Number of level 1 events

2.1.4 Events

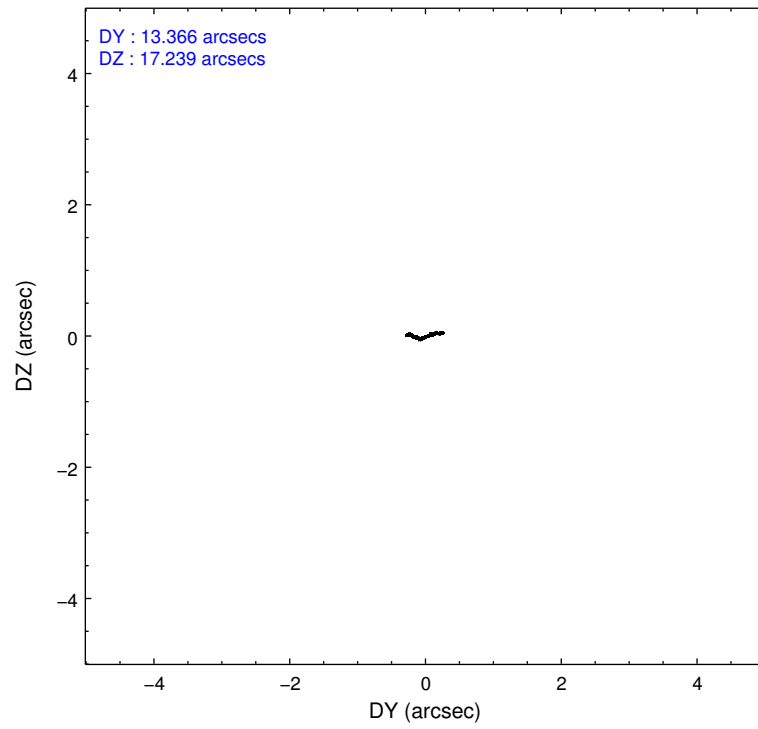
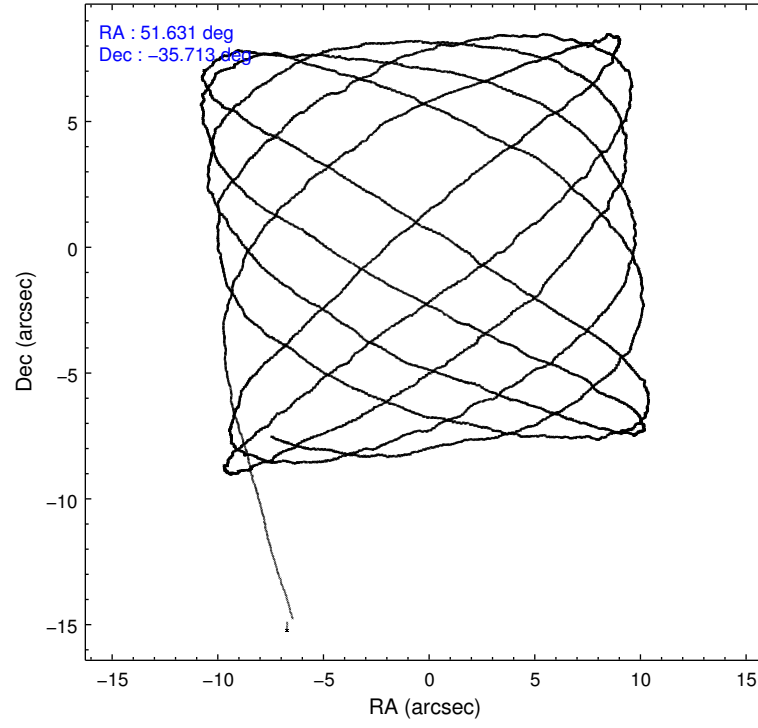
	ccd 6	ccd 7	ccd 8
level 1 events	30227	39622	40691
rejected events	26731	22177	29510
rejected %	88%	55%	72%

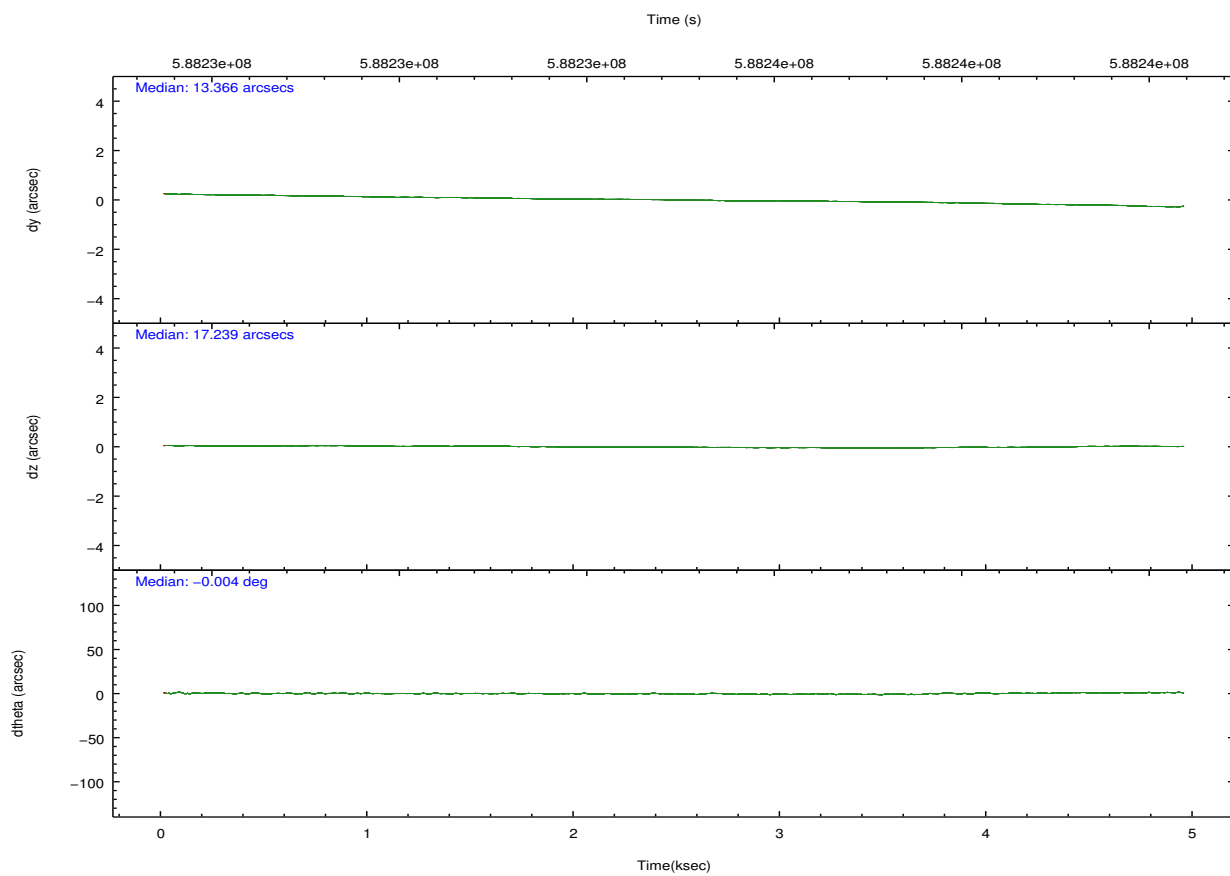
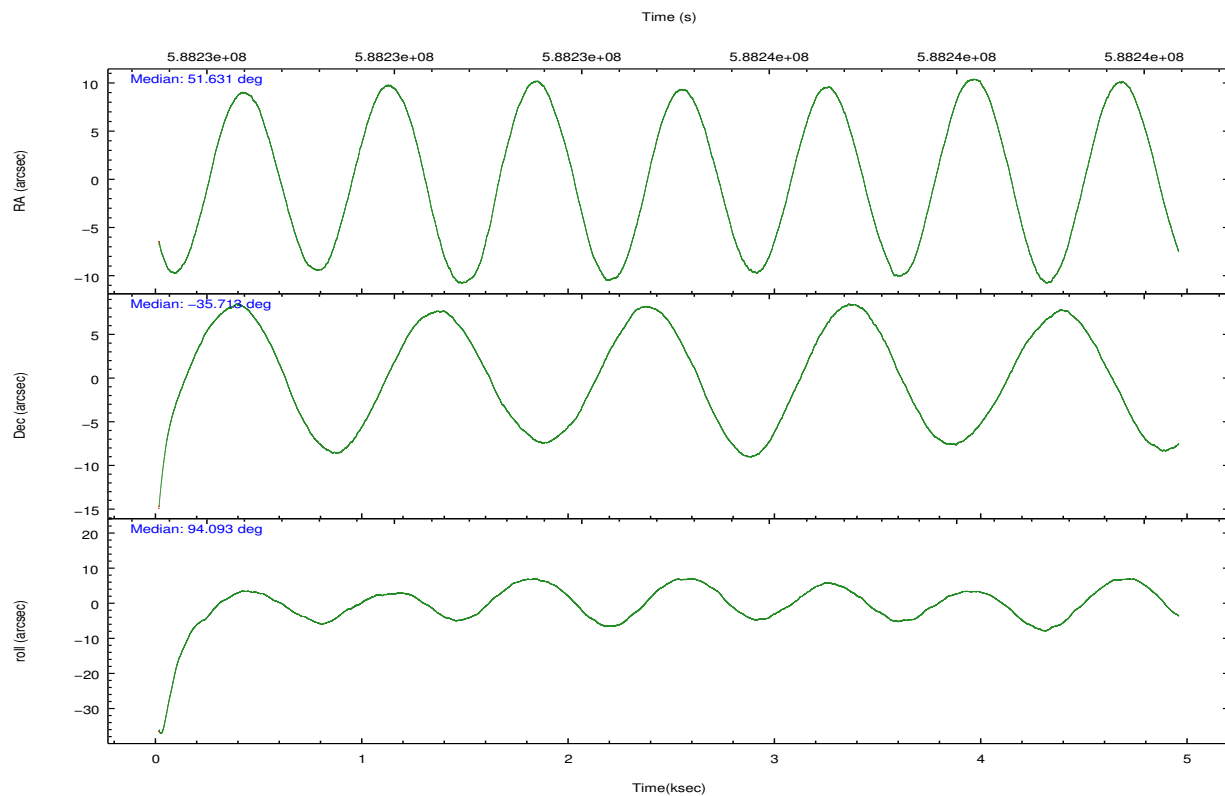
	ccd 6	ccd 7	ccd 8
grade 0 events	1154	1453	3343
	3%	3%	8%
grade 1 events	19	57	28
	0%	0%	0%
grade 2 events	804	3621	2800
	2%	9%	6%
grade 3 events	332	1440	1020
	1%	3%	2%
grade 4 events	352	1423	1024
	1%	3%	2%
grade 5 events	1426	3910	2171
	4%	9%	5%
grade 6 events	860	9528	3011
	2%	24%	7%
grade 7 events	25280	18190	27294
	83%	45%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	51.650395	51.6310595693713	CCD I2 on	N	N
[deg] Pointing Dec	-35.735912	-35.71338485019855	CCD I3 on	N	N
[deg] Pointing Roll	93.954213	94.09947967822337	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	O2	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	O1	Y
[s] Observation start time (MET)	588232159.184000	588231223.18182	CCD S5 on	N	N
Observation start date	2016-08-22T05:48:11	2016-08-22T05:33:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	588236959.184000	588237910.79471	On-chip summing requested	N	N
Observation end date	2016-08-22T07:08:11	2016-08-22T07:25:10	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



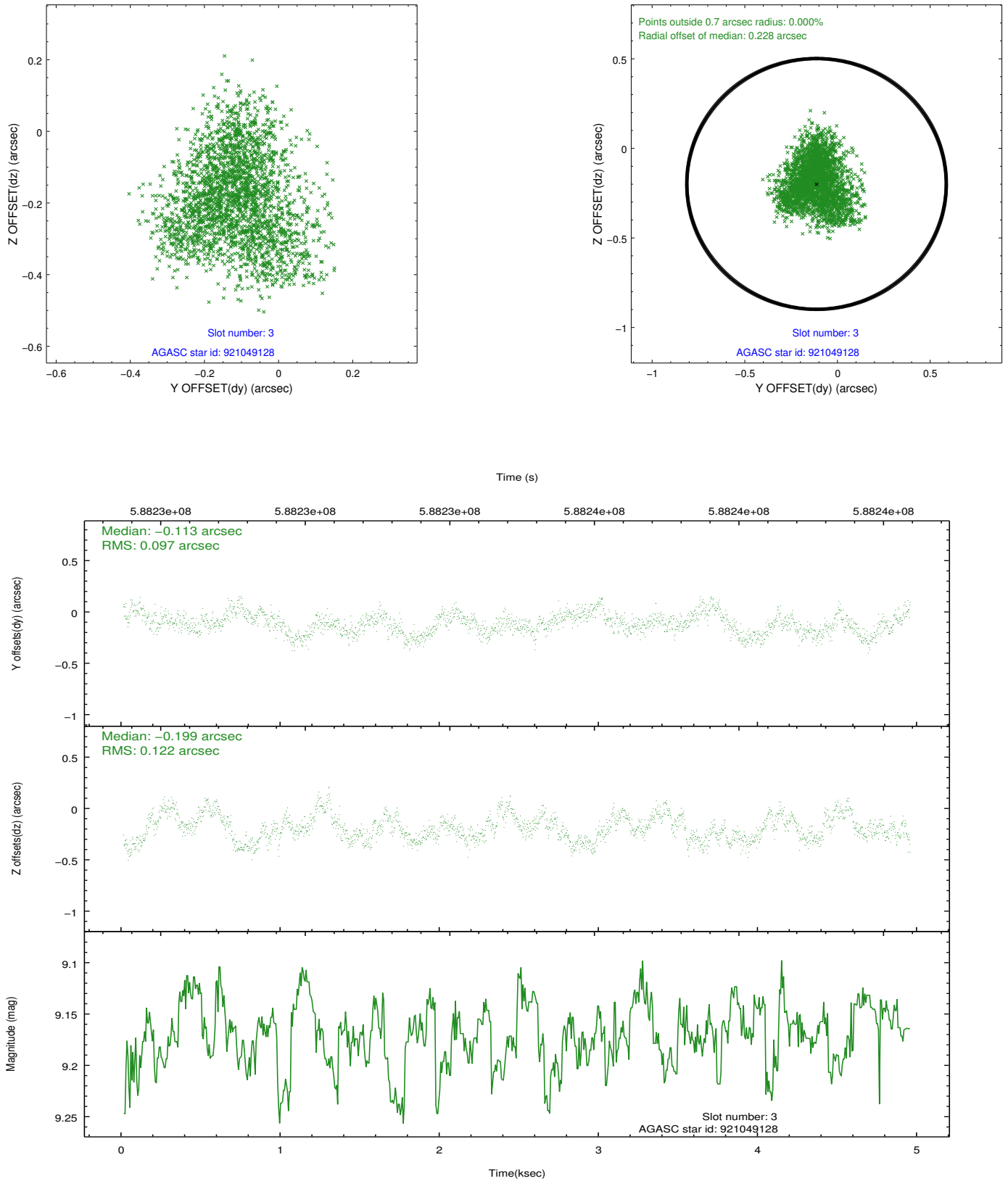


Slot Statistics

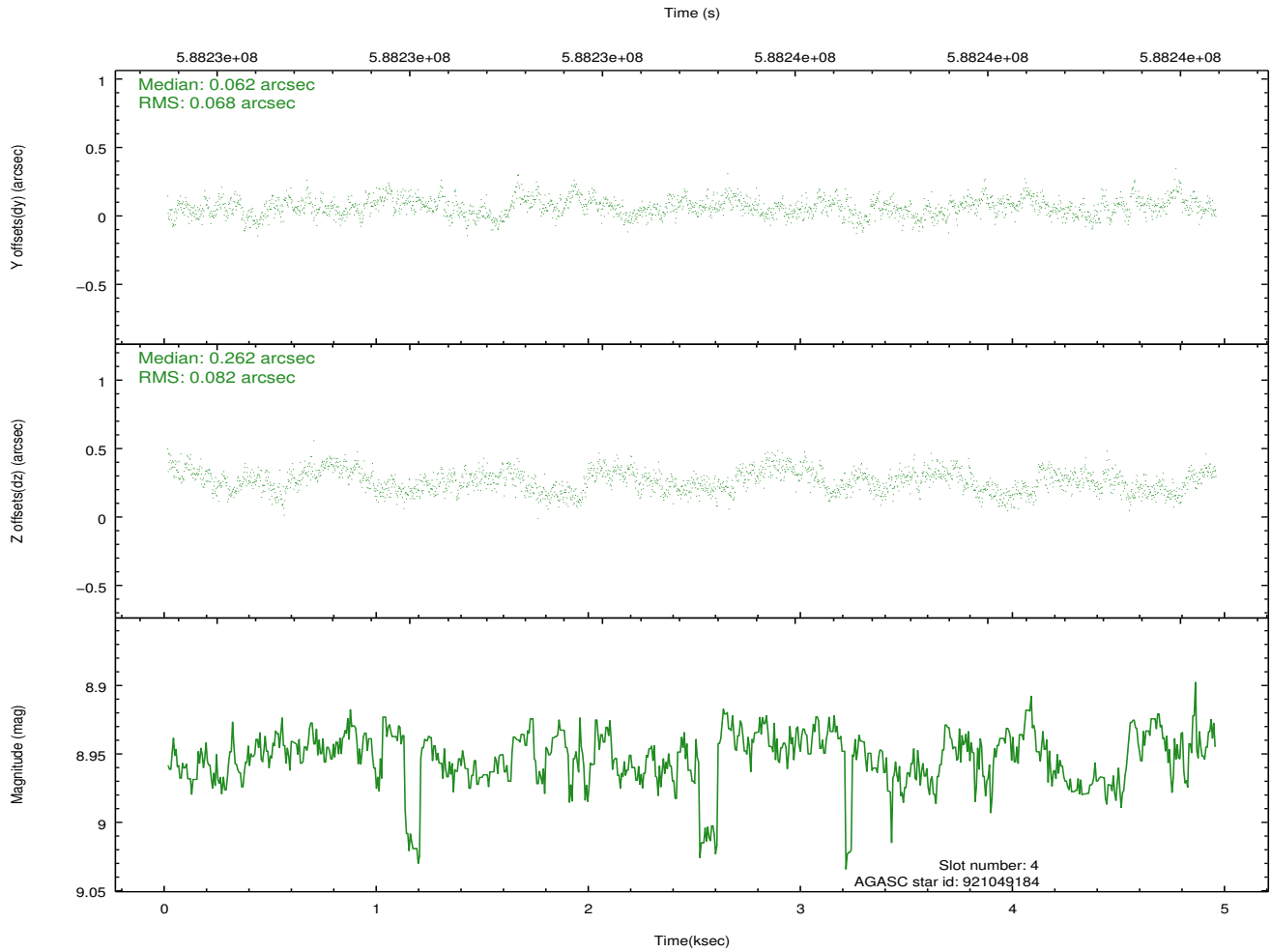
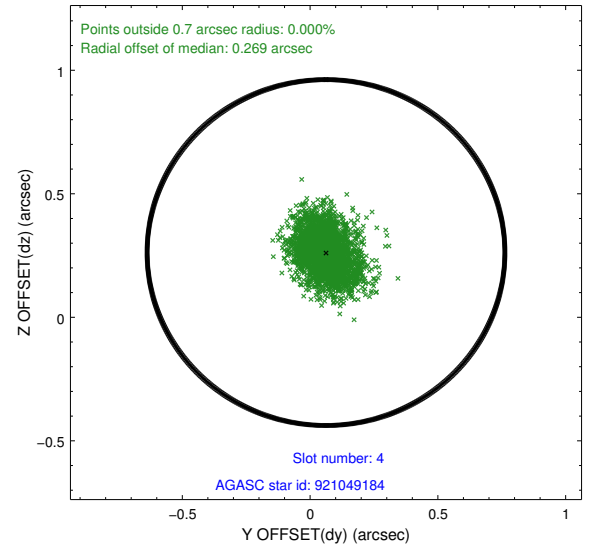
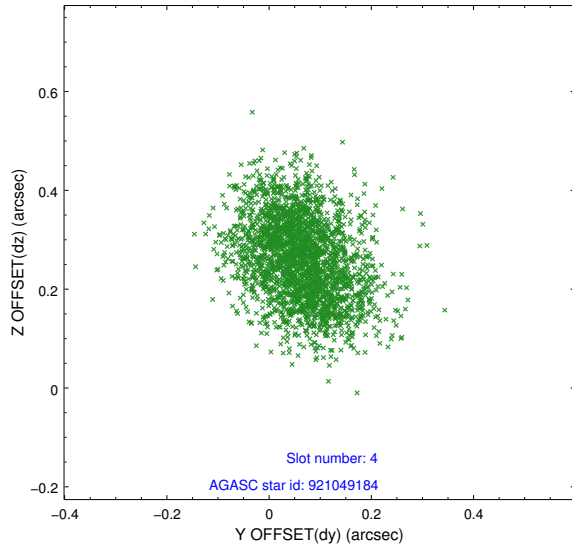
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.89	1206	-0.129	-0.064	0.009	0.017	0.000000	0.000000	-766.41	-1738.75
1	FID		ACIS-S-4	7.00	1206	0.399	0.079	0.010	0.017	0.000000	0.000000	2146.82	168.61
2	FID		ACIS-S-5	7.00	1206	-0.303	-0.007	0.009	0.015	0.000000	0.000000	-1817.85	163.58
3	GUIDE	used	921049128	9.17	2409	-0.113	-0.199	0.173	0.262	51.624963	-35.597841	500.91	40.40
4	GUIDE	used	921049184	8.95	2410	0.062	0.262	0.115	0.183	52.335158	-35.582175	407.68	-2037.15
5	GUIDE	used	921052472	7.58	2412	0.131	-0.241	0.119	0.178	51.495724	-35.958320	-767.68	503.42
6	GUIDE	used	921052688	6.83	2412	0.036	-0.249	0.106	0.182	51.482670	-35.920885	-631.25	533.35
7	GUIDE	used	921048880	7.60	2411	-0.126	0.413	0.110	0.176	52.491431	-35.748628	-225.49	-2446.61

2.4 Star Slots

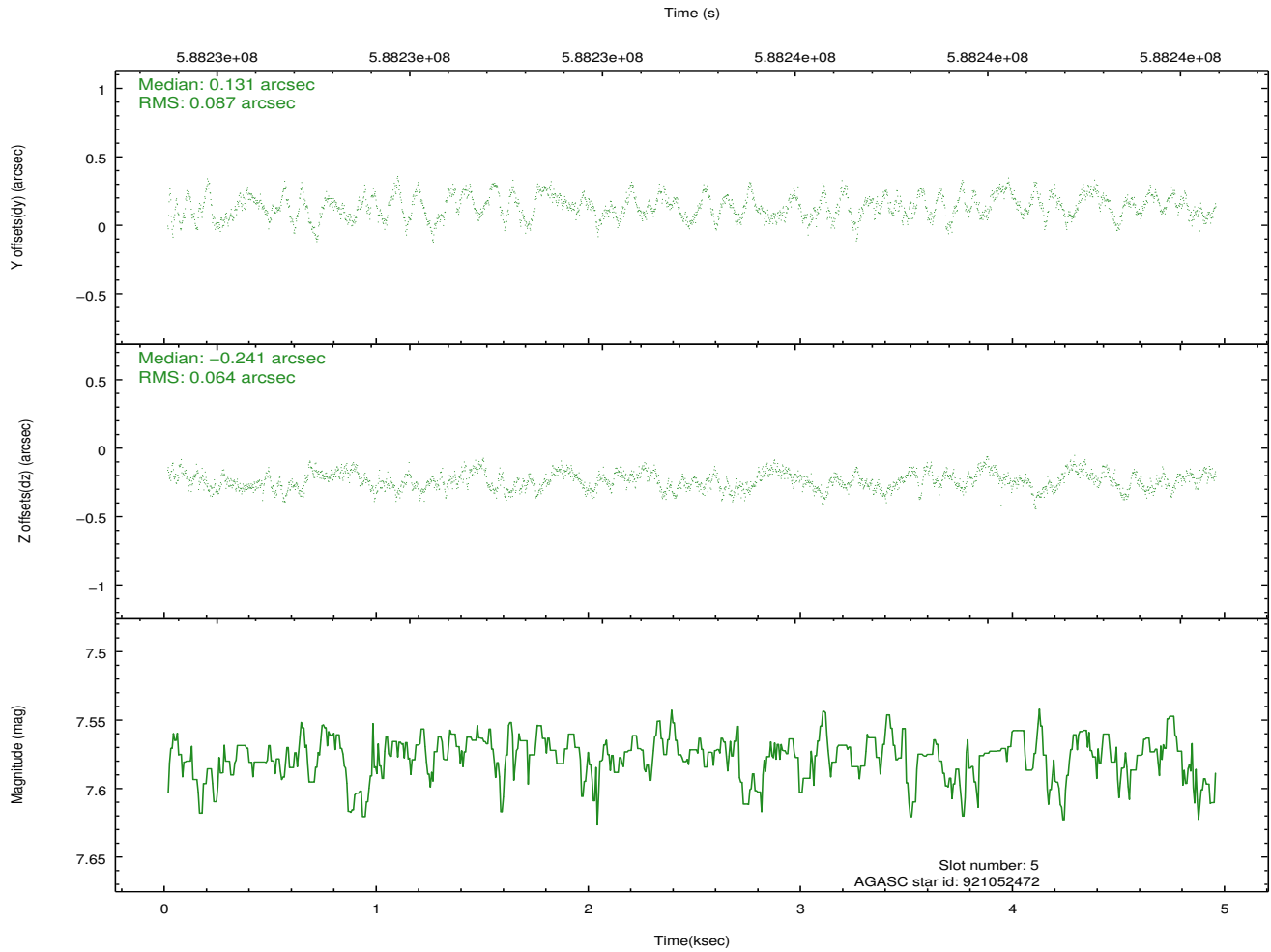
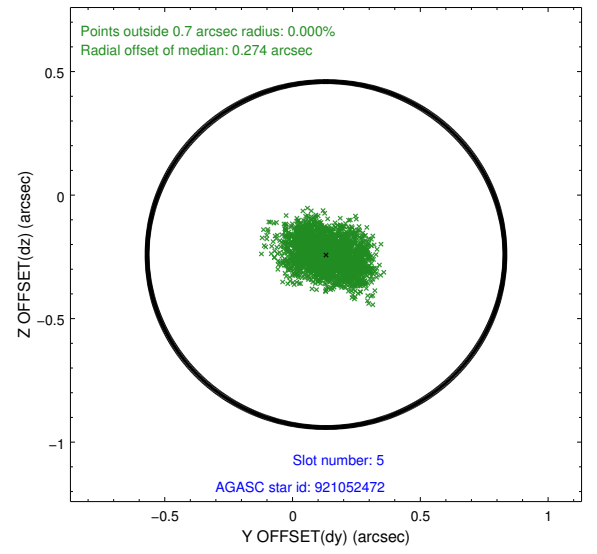
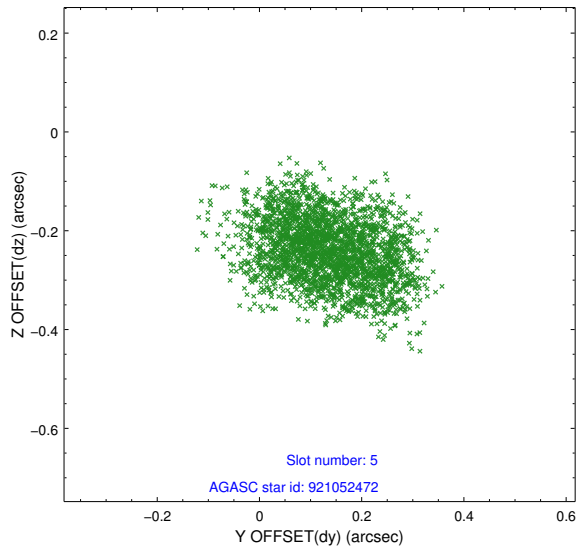
2.4.1 Slot 3



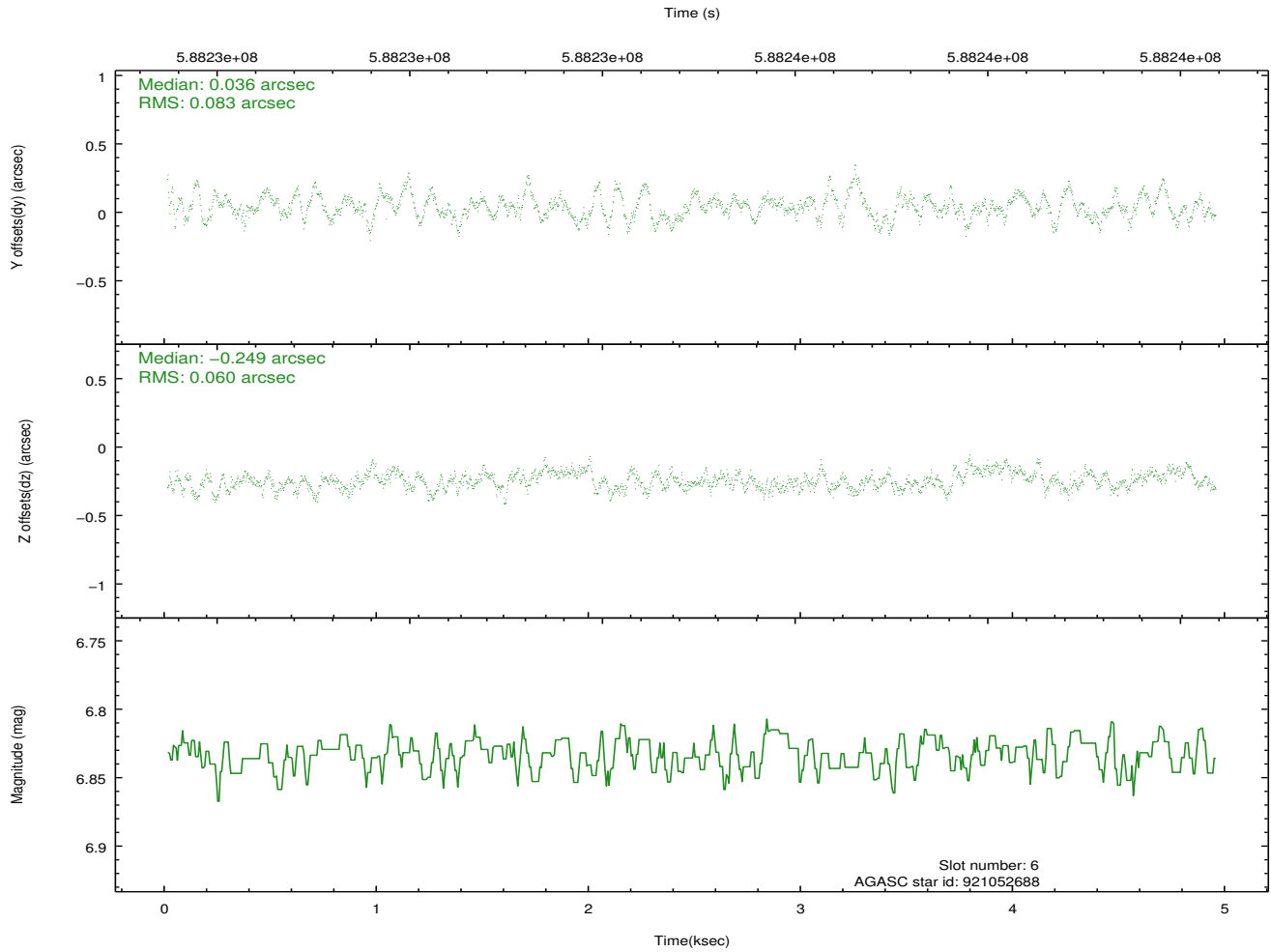
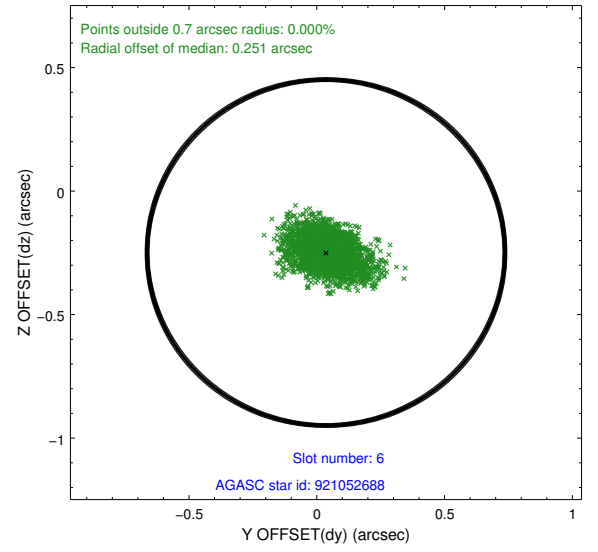
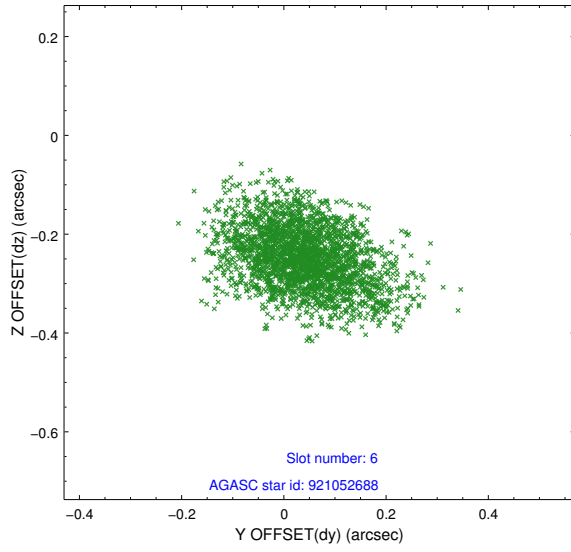
2.4.2 Slot 4



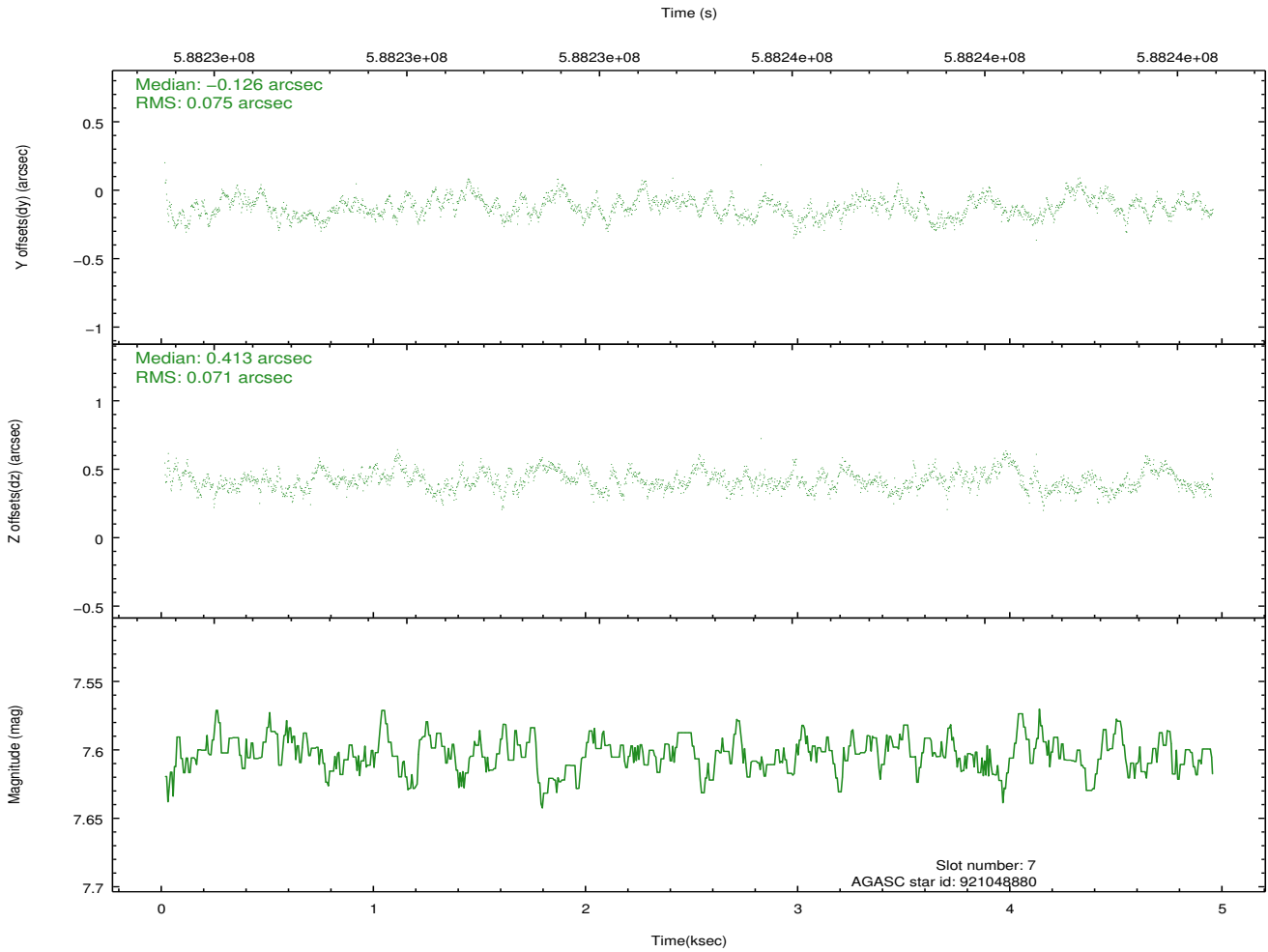
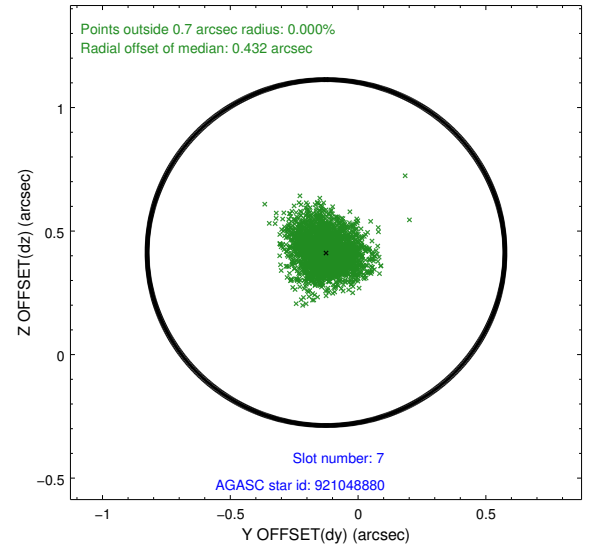
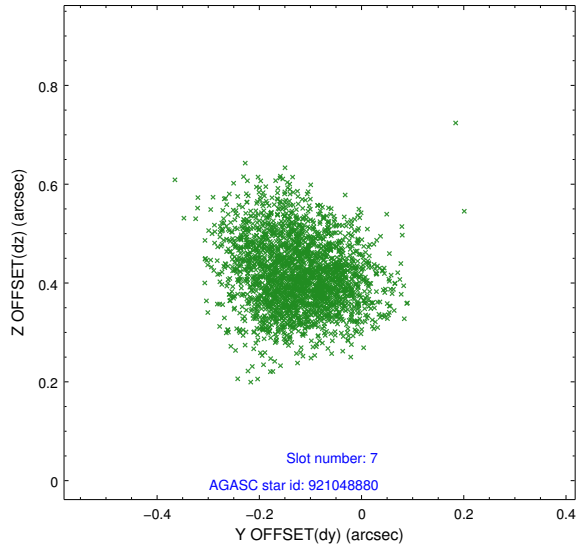
2.4.3 Slot 5



2.4.4 Slot 6

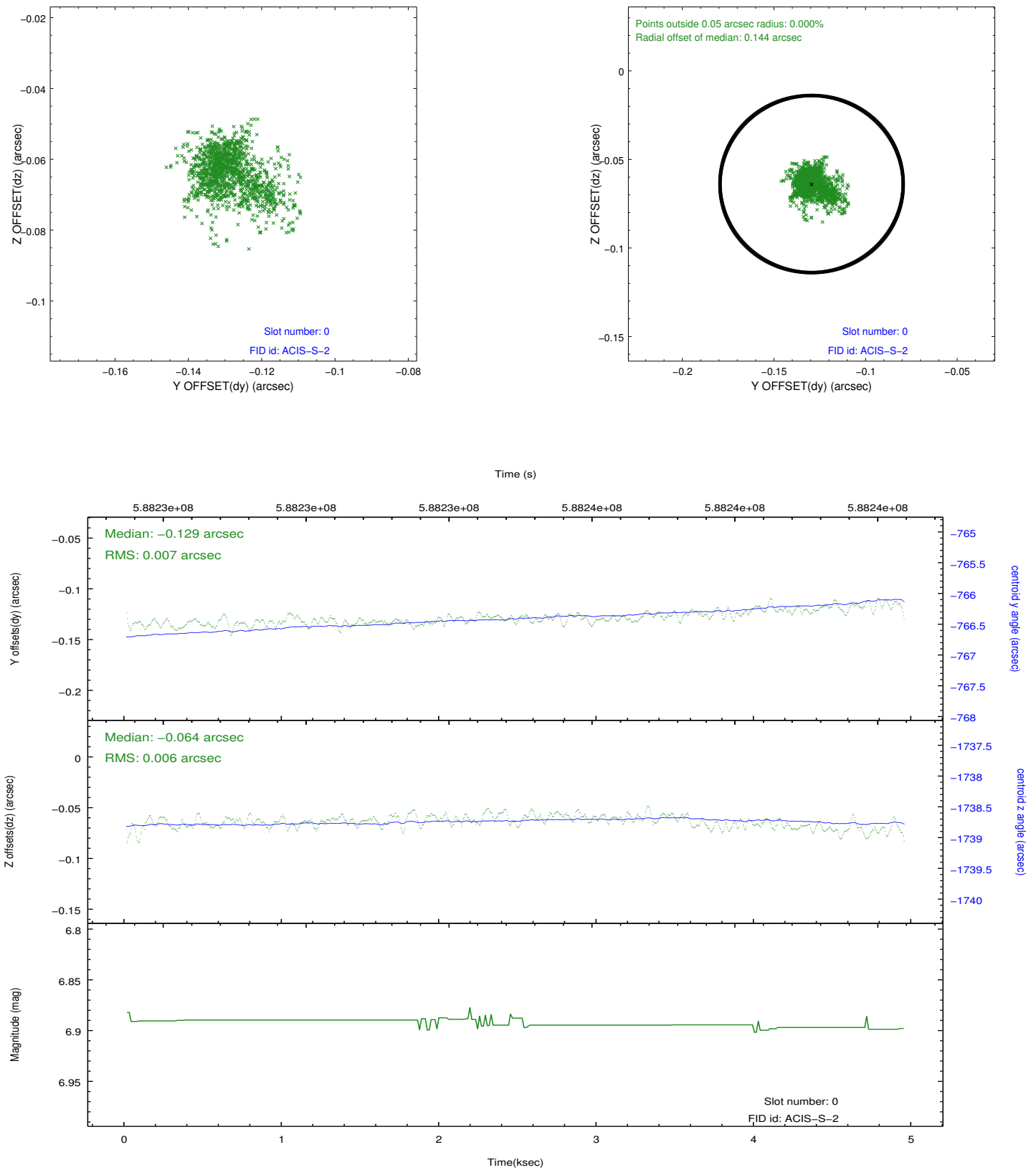


2.4.5 Slot 7

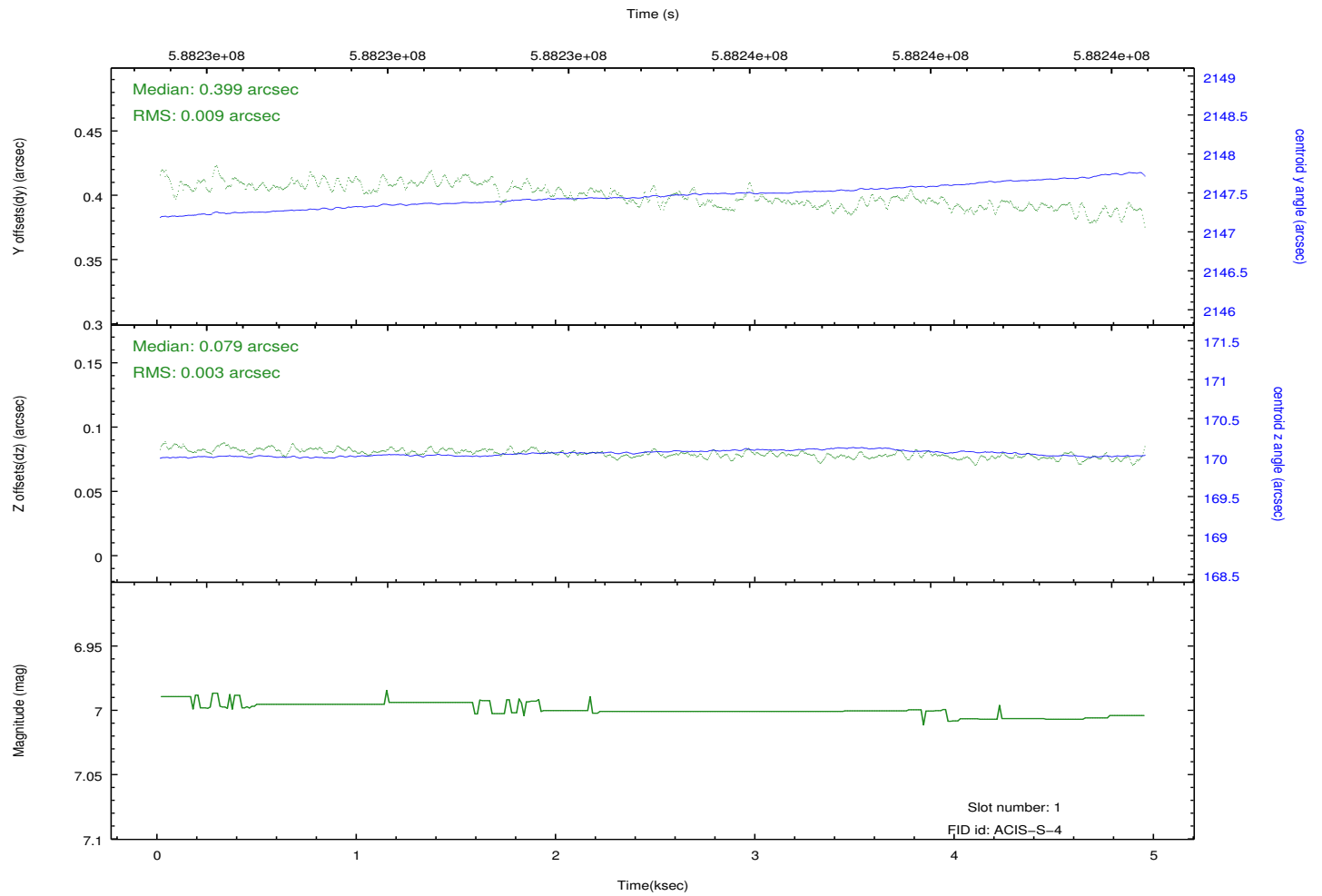
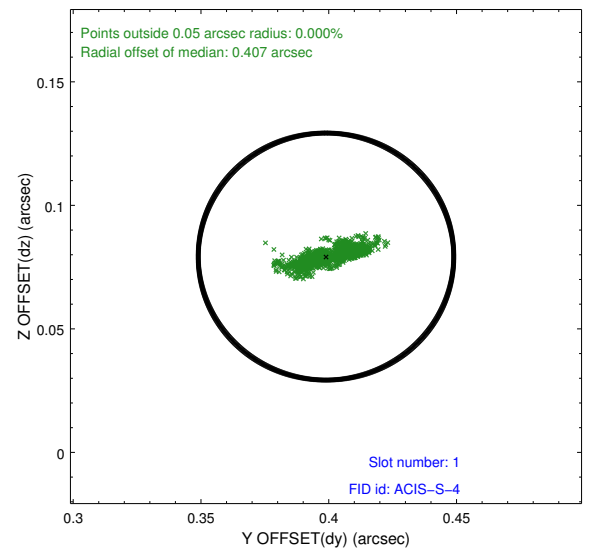
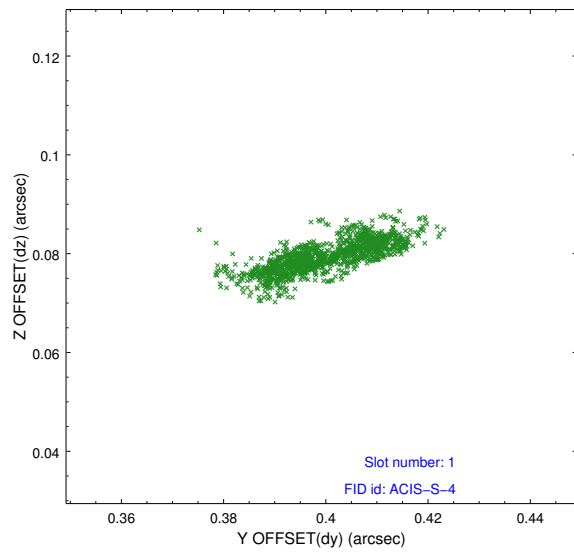


2.5 FID Slots

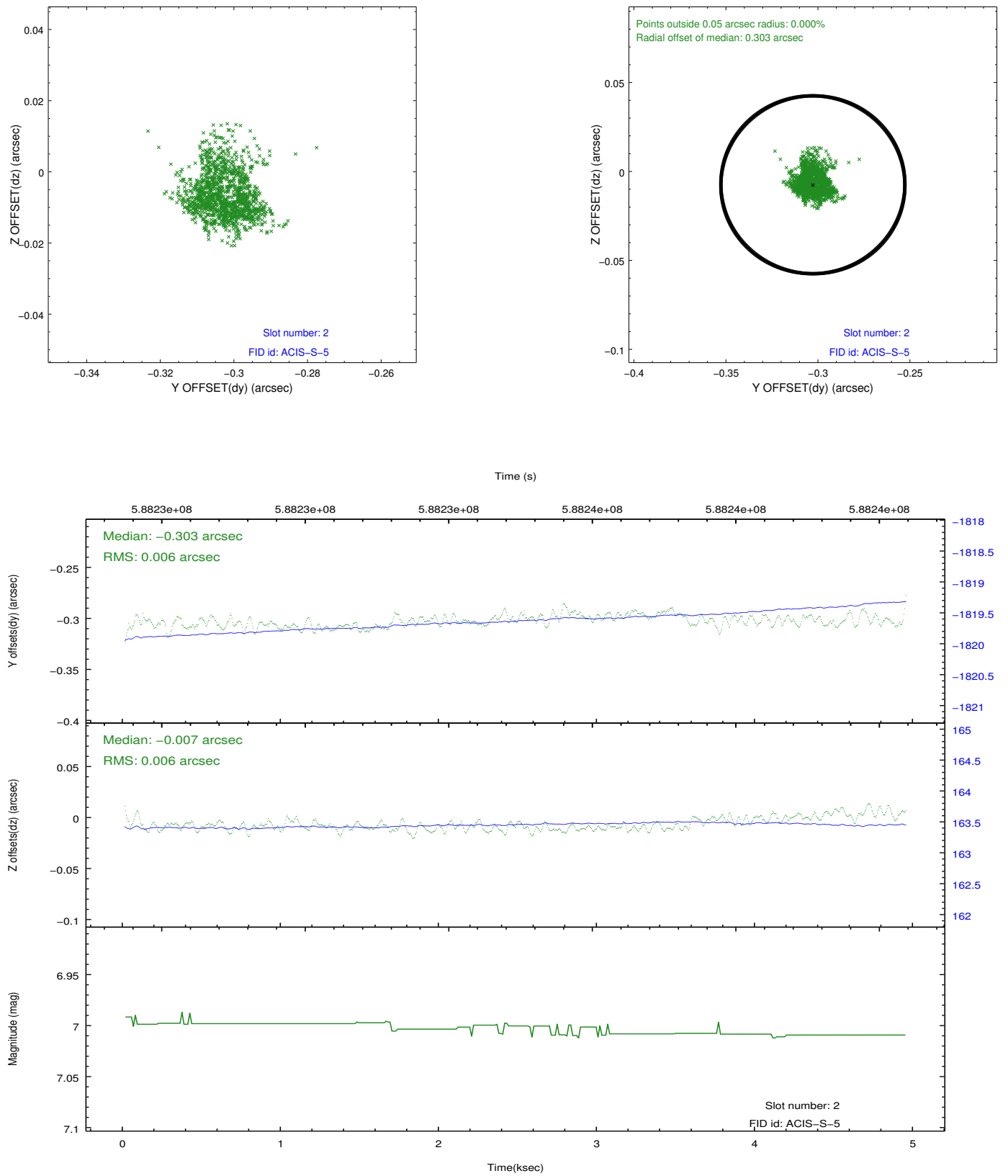
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.08.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9135000379086

A.2 Comments