

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17035 - L2 Version 1
Chandra X-Ray Center

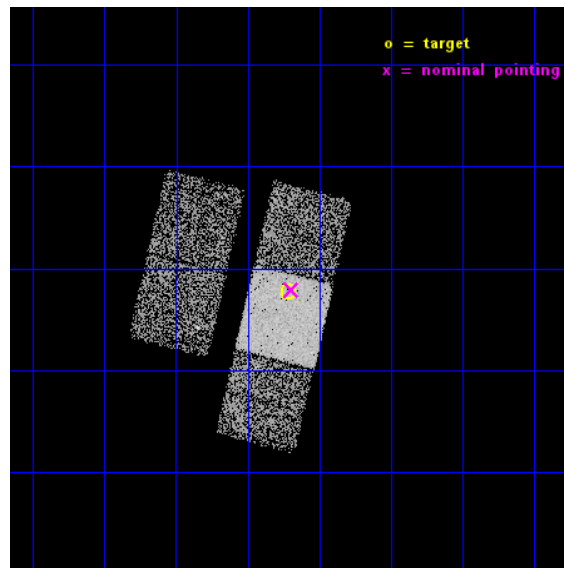
L2 Processing Date : Apr 2 2015

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1 Front

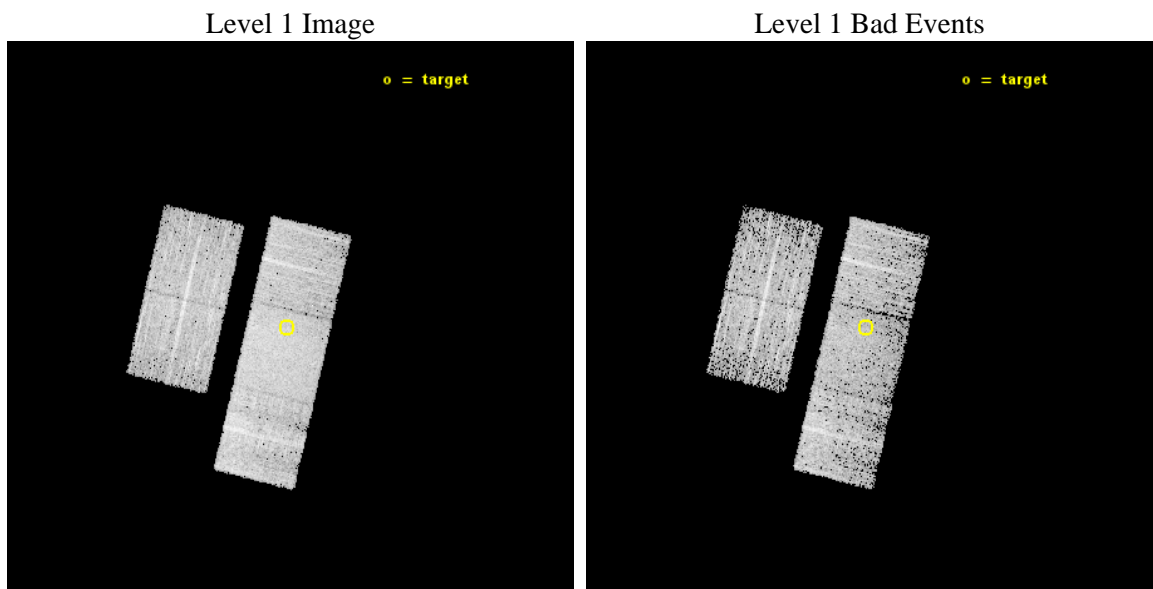
seq_num	703039	Sequence number
obs_id	17035	Observation id
title	Probing the Growth of Massive Black Holes in Dwarf Galaxies with Chandra and HST	Proposal title
observer	Dr. Amy Reines	Principal investigator
object	J144012.70+024743.5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	220.052917	Observer's specified target RA [deg]
dec_targ	2.795417	Observer's specified target Dec [deg]
ra_nom	220.04857451854	Nominal RA [deg]
dec_nom	2.7987090808631	Nominal Dec [deg]
roll_nom	103.59399066598	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7061.1463017464	Sum of GTIs [s]
livetime	6968.8872269738	Livetime [s]
ontime2	7060.9821417332	Sum of GTIs [s]
ontime3	7061.0642217398	Sum of GTIs [s]
ontime6	7061.1052618027	Sum of GTIs [s]
ontime7	7061.1463017464	Sum of GTIs [s]
ontime8	7061.0231817961	Sum of GTIs [s]
l2events	31037	Number of level 2 events



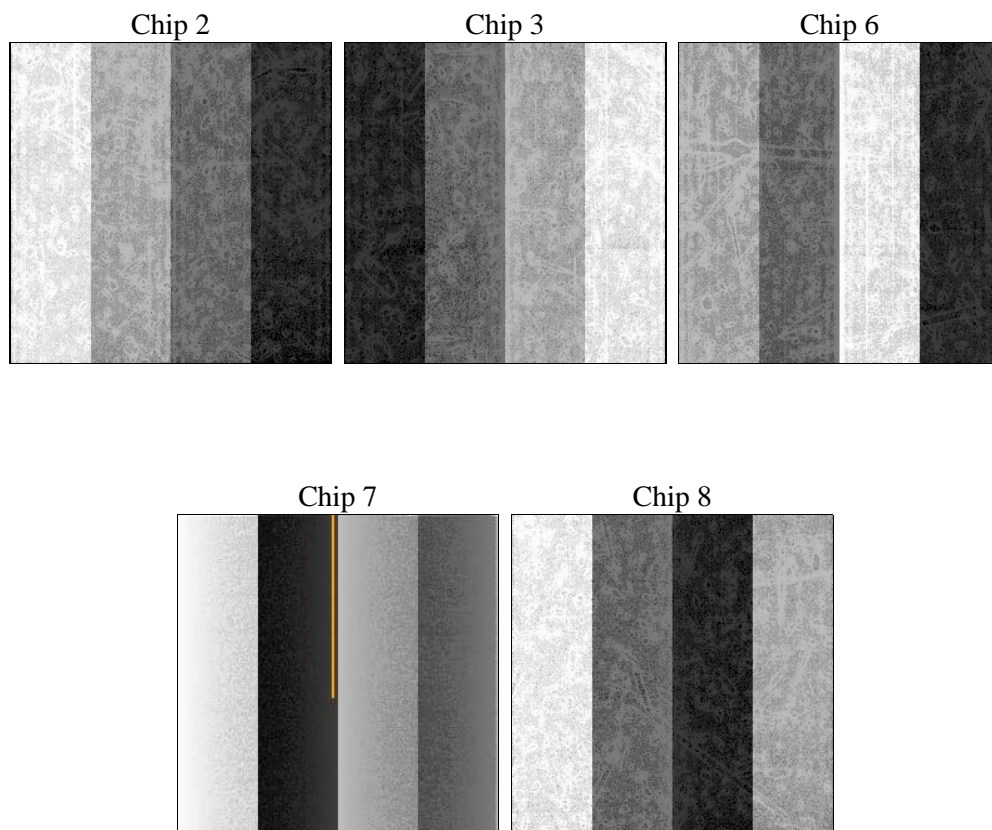
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	7061.1463017464	Sum of GTIs [s]
caldsver	4.6.7	 	ontime2	7060.9821417332	Sum of GTIs [s]
date	2015-04-02T06:19:42	Date and time of file creation	ontime3	7061.0642217398	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	7061.1052618027	Sum of GTIs [s]
			ontime7	7061.1463017464	Sum of GTIs [s]
			ontime8	7061.0231817961	Sum of GTIs [s]
			l1events	182120	Number of level 1 events

2.1.4 Events

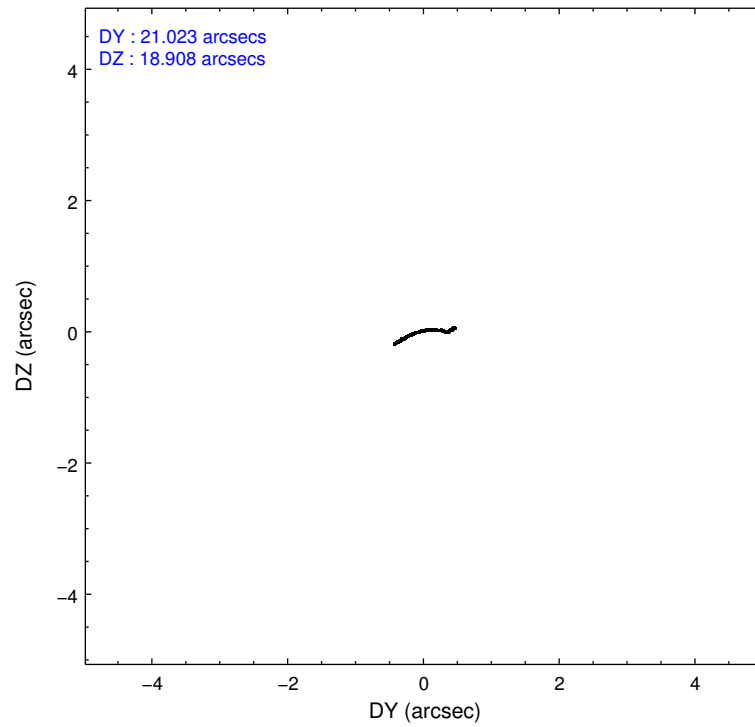
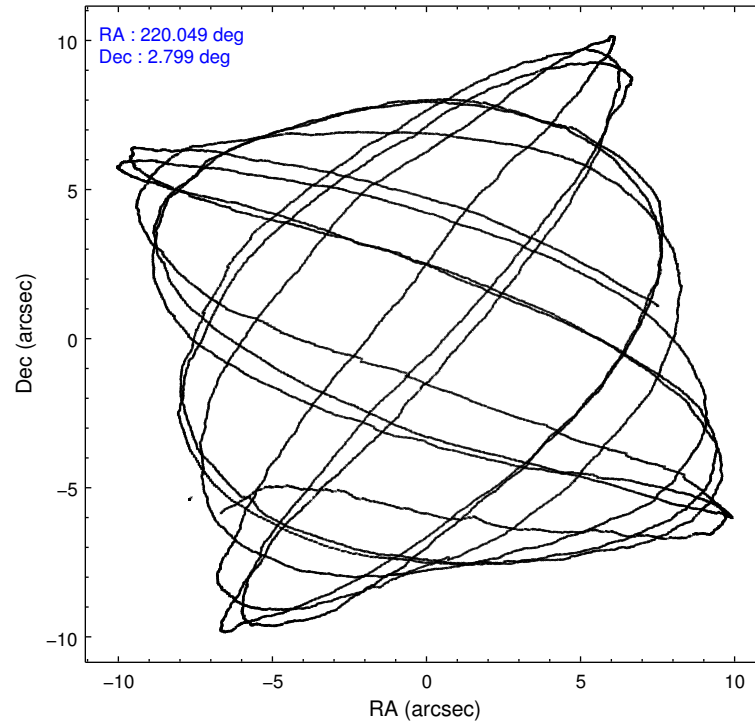
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	31450	32228	33305	43907	41230
rejected events	27928	28762	29329	25471	31339
rejected %	88%	89%	88%	58%	76%

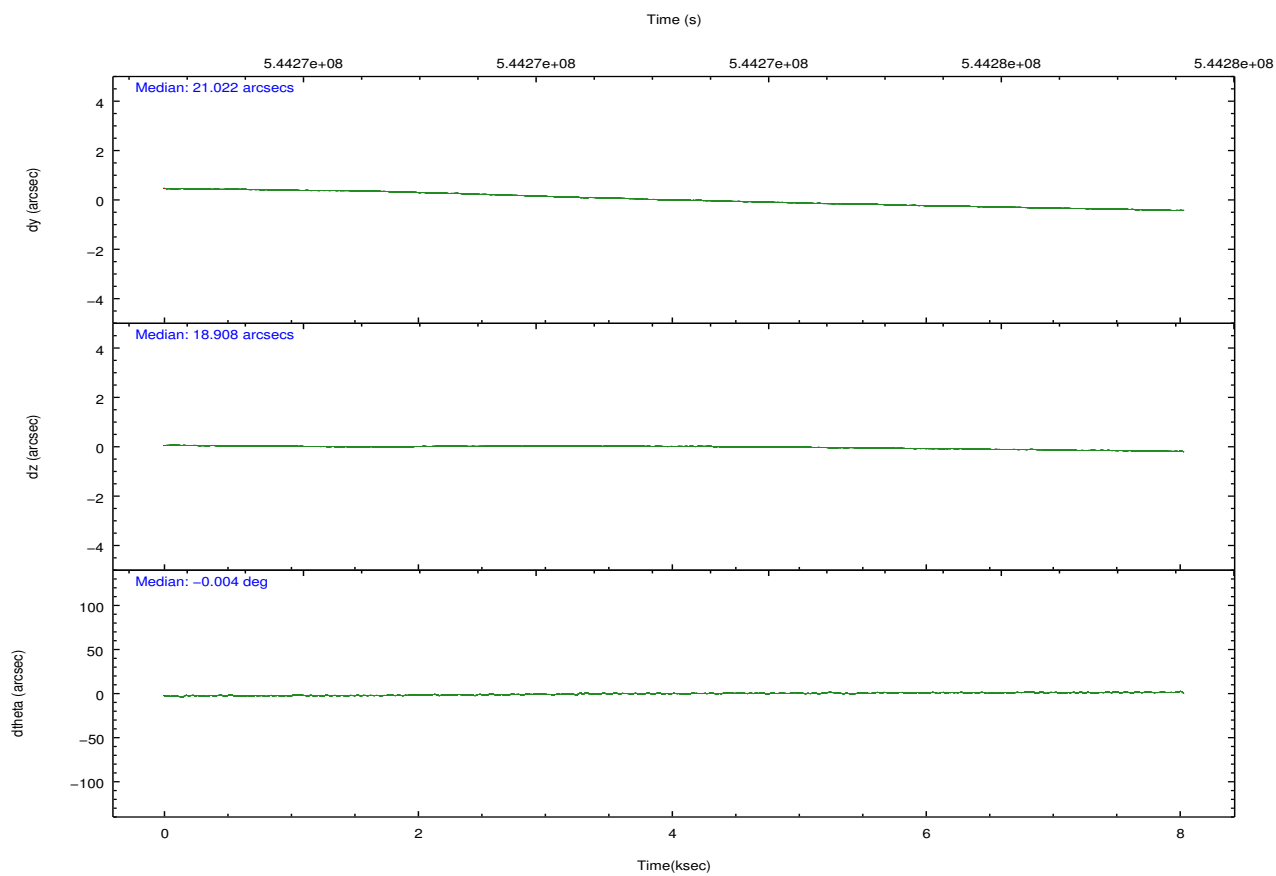
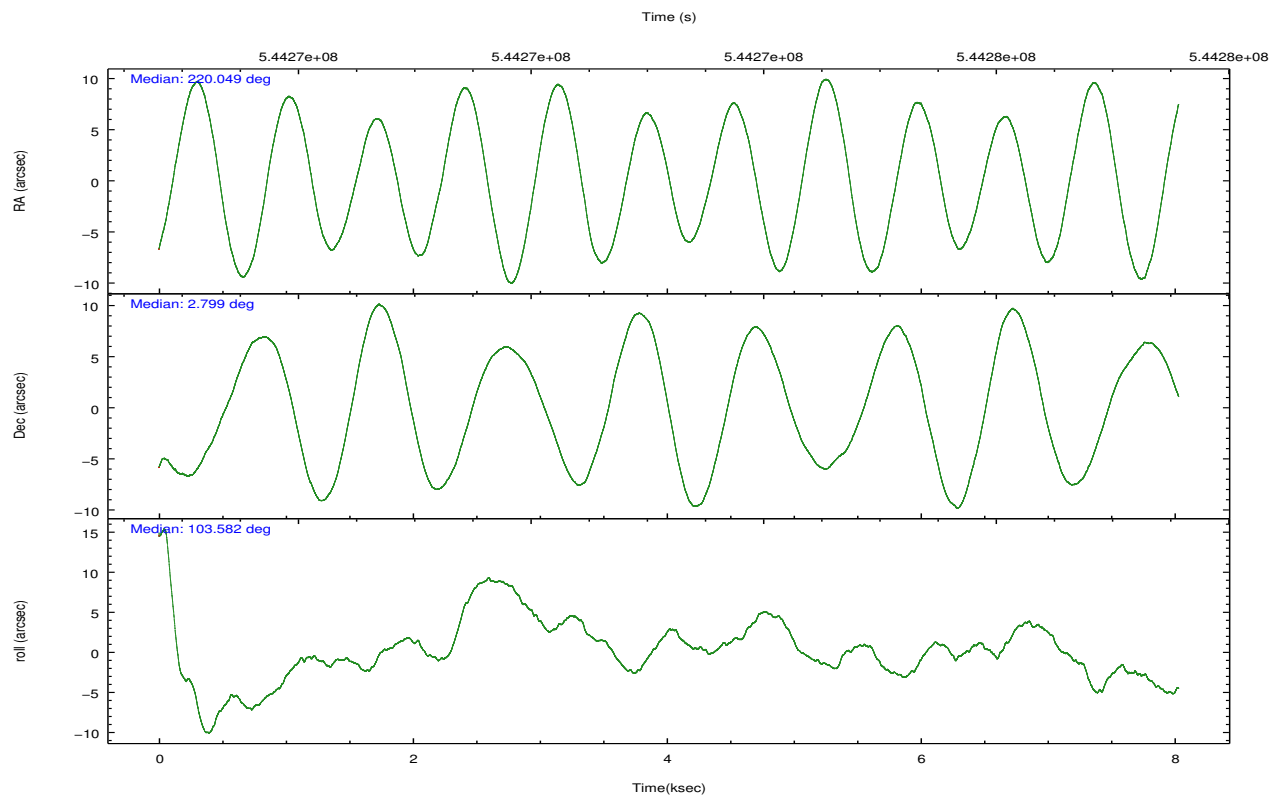
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1226	1217	1253	1566	2667
	3%	3%	3%	3%	6%
grade 1 events	7	15	16	58	29
	0%	0%	0%	0%	0%
grade 2 events	844	745	980	3881	2503
	2%	2%	2%	8%	6%
grade 3 events	356	376	381	1417	914
	1%	1%	1%	3%	2%
grade 4 events	343	374	352	1382	874
	1%	1%	1%	3%	2%
grade 5 events	1312	1587	1538	4284	2304
	4%	4%	4%	9%	5%
grade 6 events	759	758	1016	10201	2946
	2%	2%	3%	23%	7%
grade 7 events	26603	27156	27769	21118	28993
	84%	84%	83%	48%	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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	220.067800	220.048574518545	CCD I2 on	Y	Y
[deg] Pointing Dec	2.779096	2.798709080863053	CCD I3 on	Y	Y
[deg] Pointing Roll	103.436427	103.5939906659842	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	Y	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)	544270212.184000	544268850.55106	CCD S5 on	N	N
Observation start date	2015-04-01T10:09:05	2015-04-01T09:47:30	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	544277212.184000	544277905.40157	On-chip summing requested	N	N
Observation end date	2015-04-01T12:05:45	2015-04-01T12:18:25	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



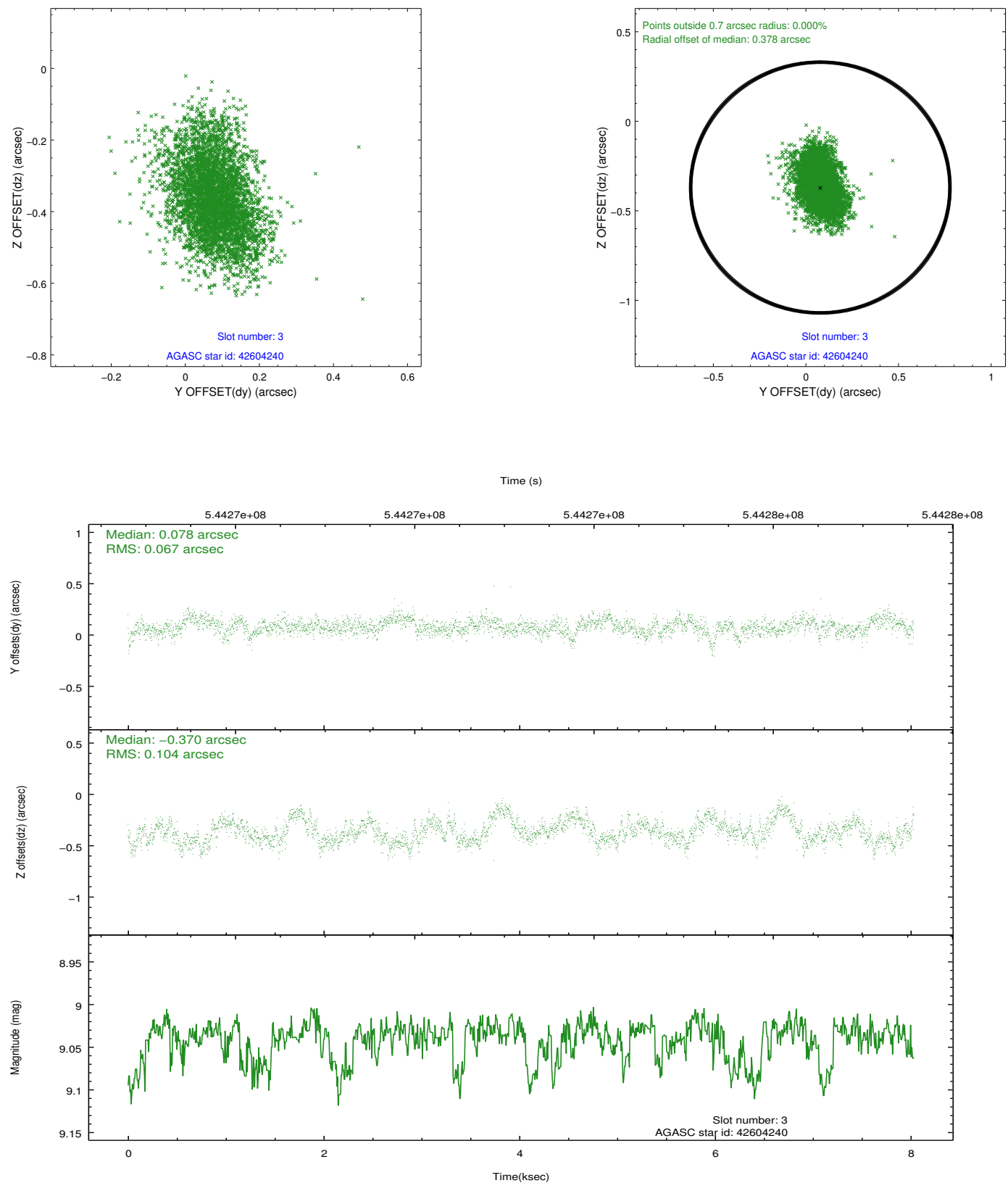


Slot Statistics

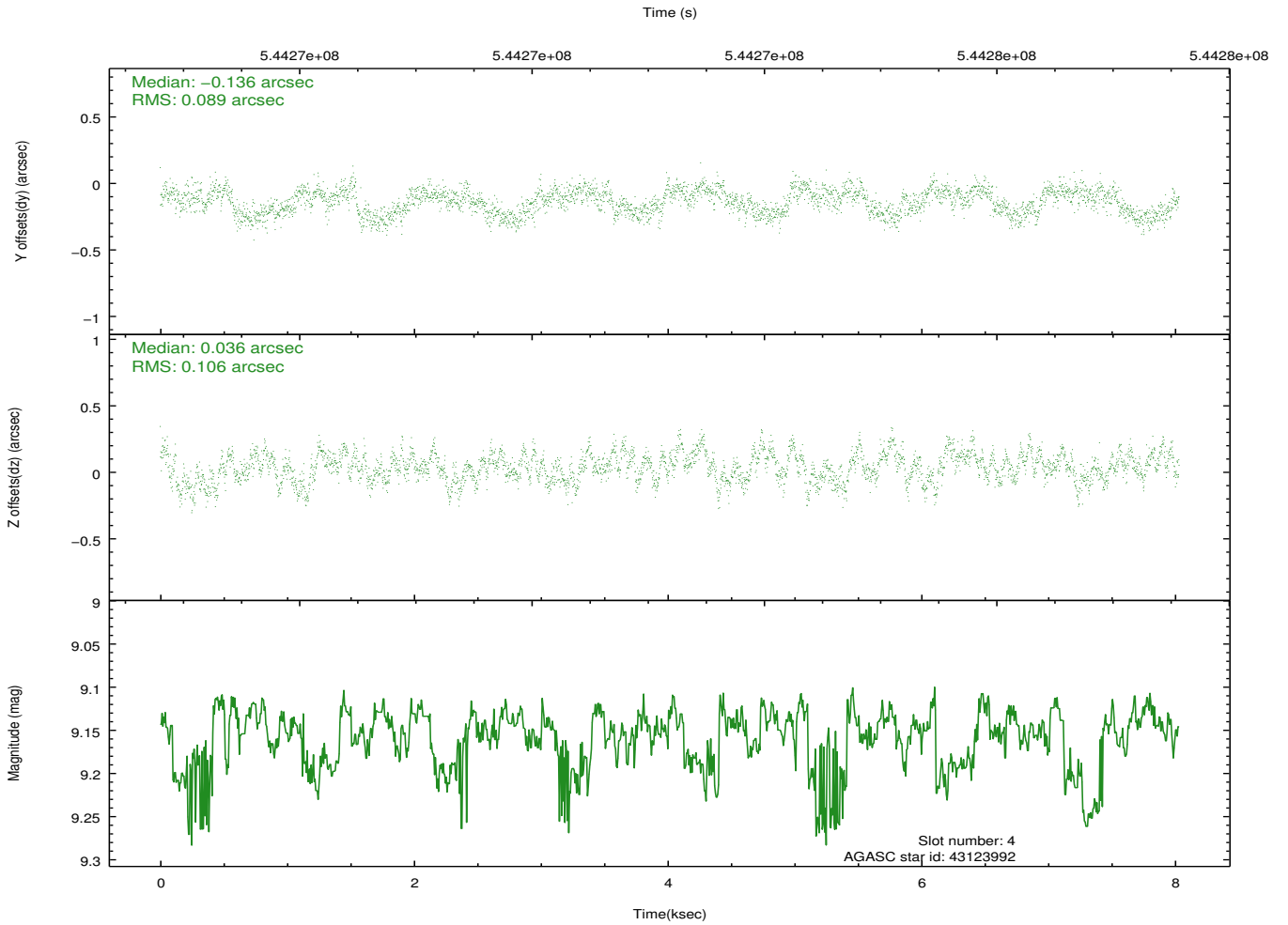
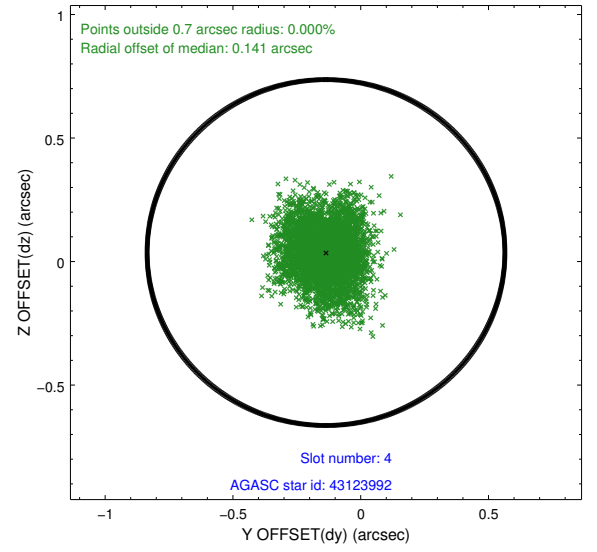
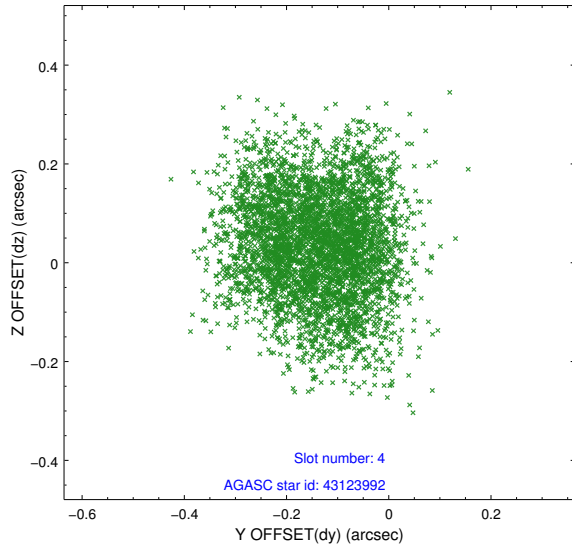
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.02	1960	-0.153	-0.087	0.009	0.014	0.000000	0.000000	-774.33	-1740.45
1	FID		ACIS-S-4	7.12	1960	0.347	0.097	0.008	0.014	0.000000	0.000000	2139.12	167.49
2	FID		ACIS-S-5	7.12	1960	-0.226	-0.002	0.009	0.014	0.000000	0.000000	-1826.36	161.86
3	GUIDE	used	42604240	9.04	3918	0.078	-0.370	0.129	0.222	219.815995	2.479142	-839.62	1131.80
4	GUIDE	used	43123992	9.15	3918	-0.136	0.036	0.149	0.234	220.073183	3.041813	915.48	-237.86
5	GUIDE	used	43125384	9.19	3917	-0.122	-0.137	0.173	0.264	220.495715	3.039281	554.73	-1713.81
6	GUIDE	used	43126520	9.20	3917	0.060	0.177	0.158	0.248	220.731433	2.679932	-900.97	-2236.30
7	GUIDE	used	43125480	9.70	3873	0.112	0.278	0.198	0.344	220.758854	2.752621	-668.75	-2395.10

2.4 Star Slots

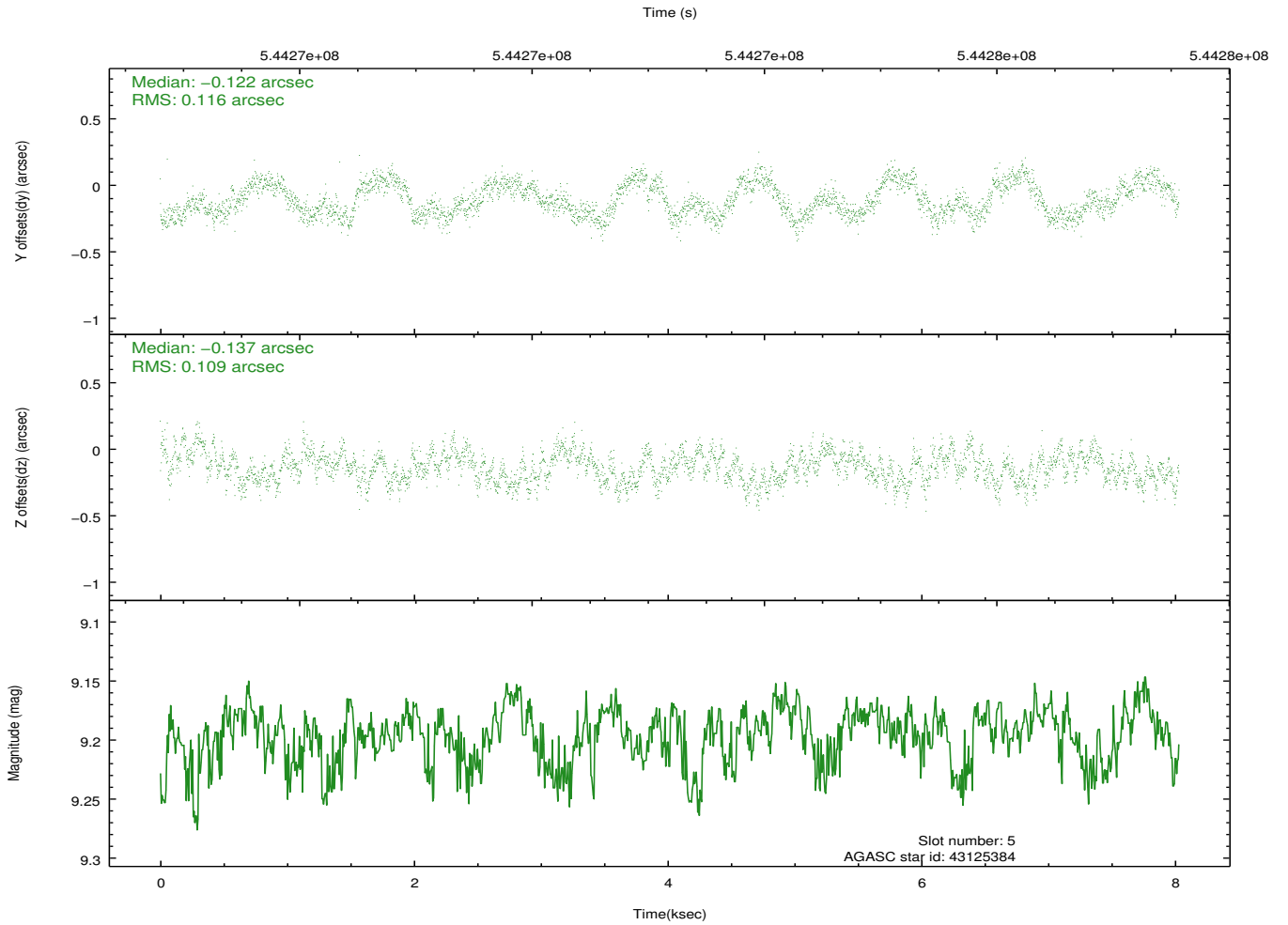
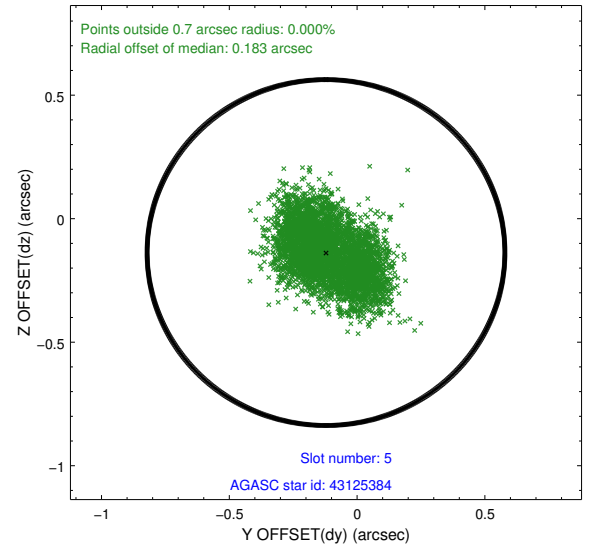
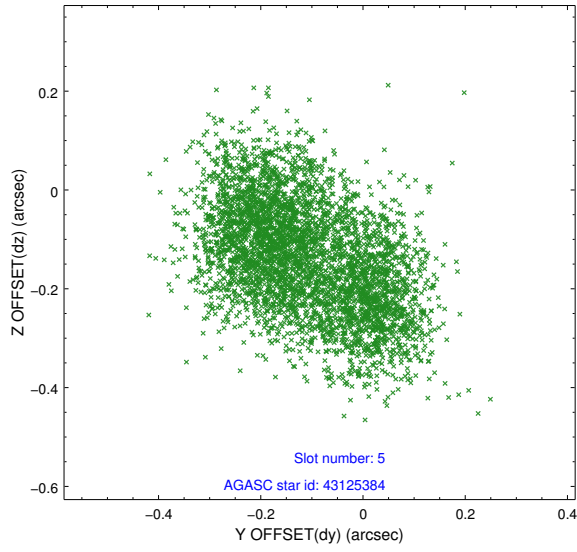
2.4.1 Slot 3



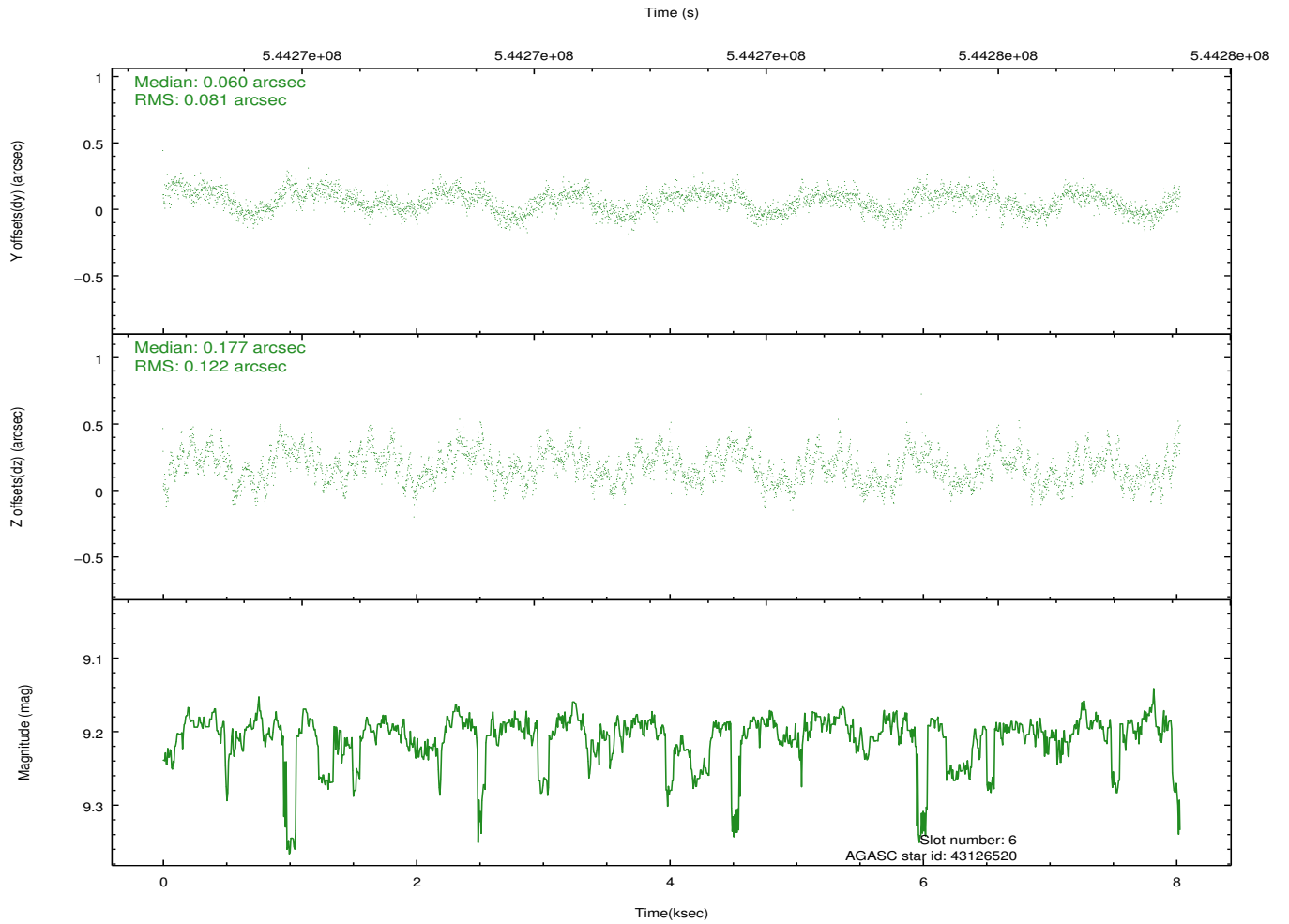
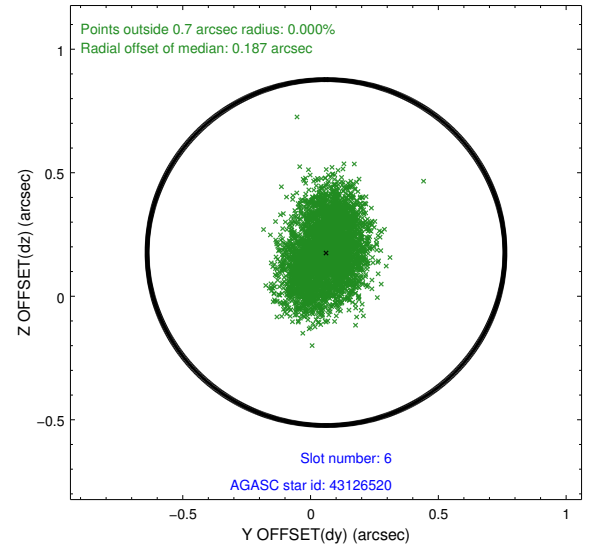
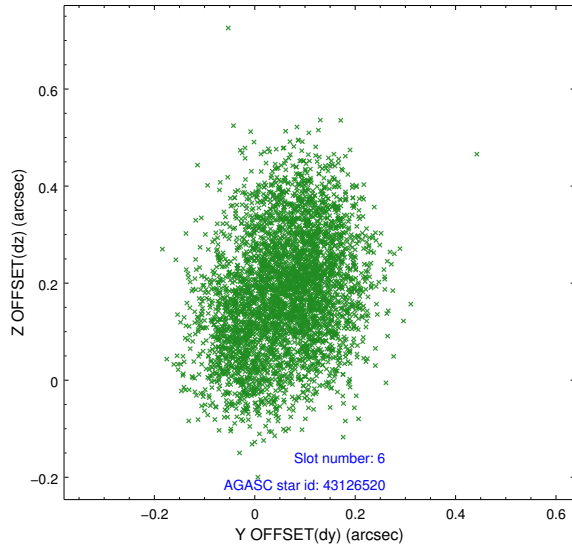
2.4.2 Slot 4



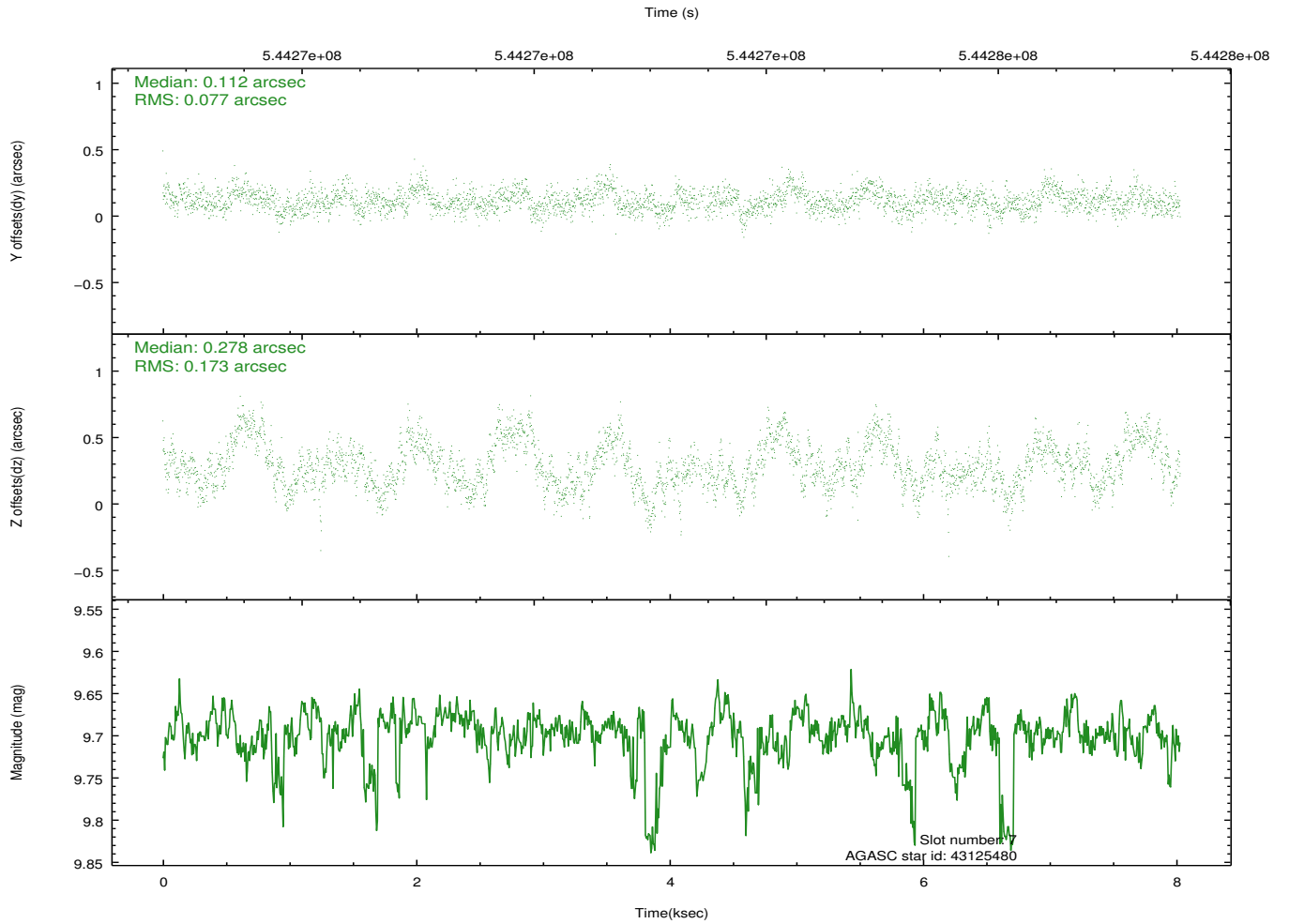
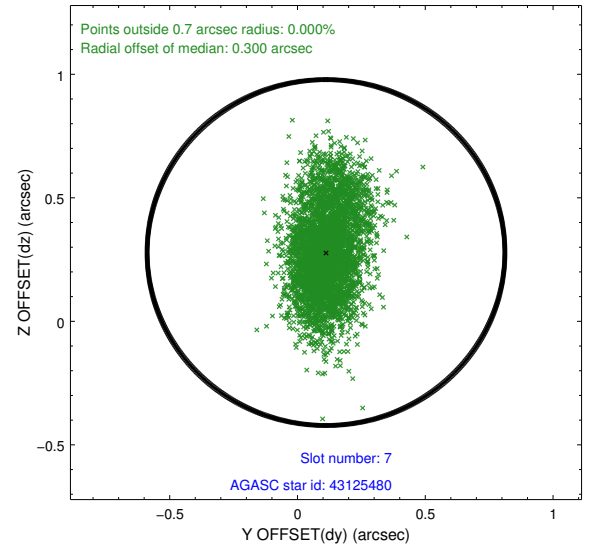
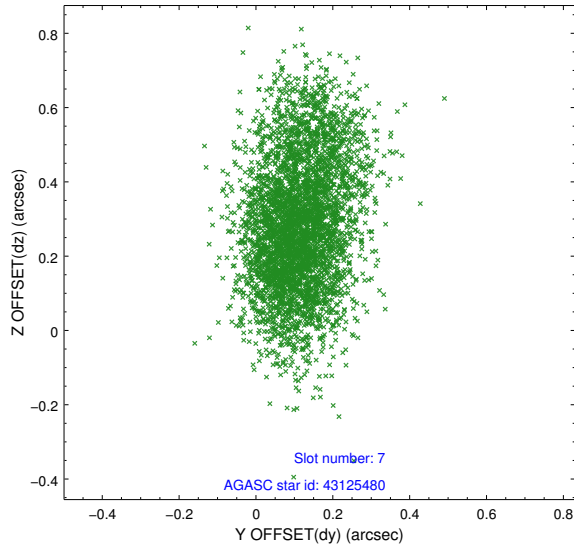
2.4.3 Slot 5



2.4.4 Slot 6

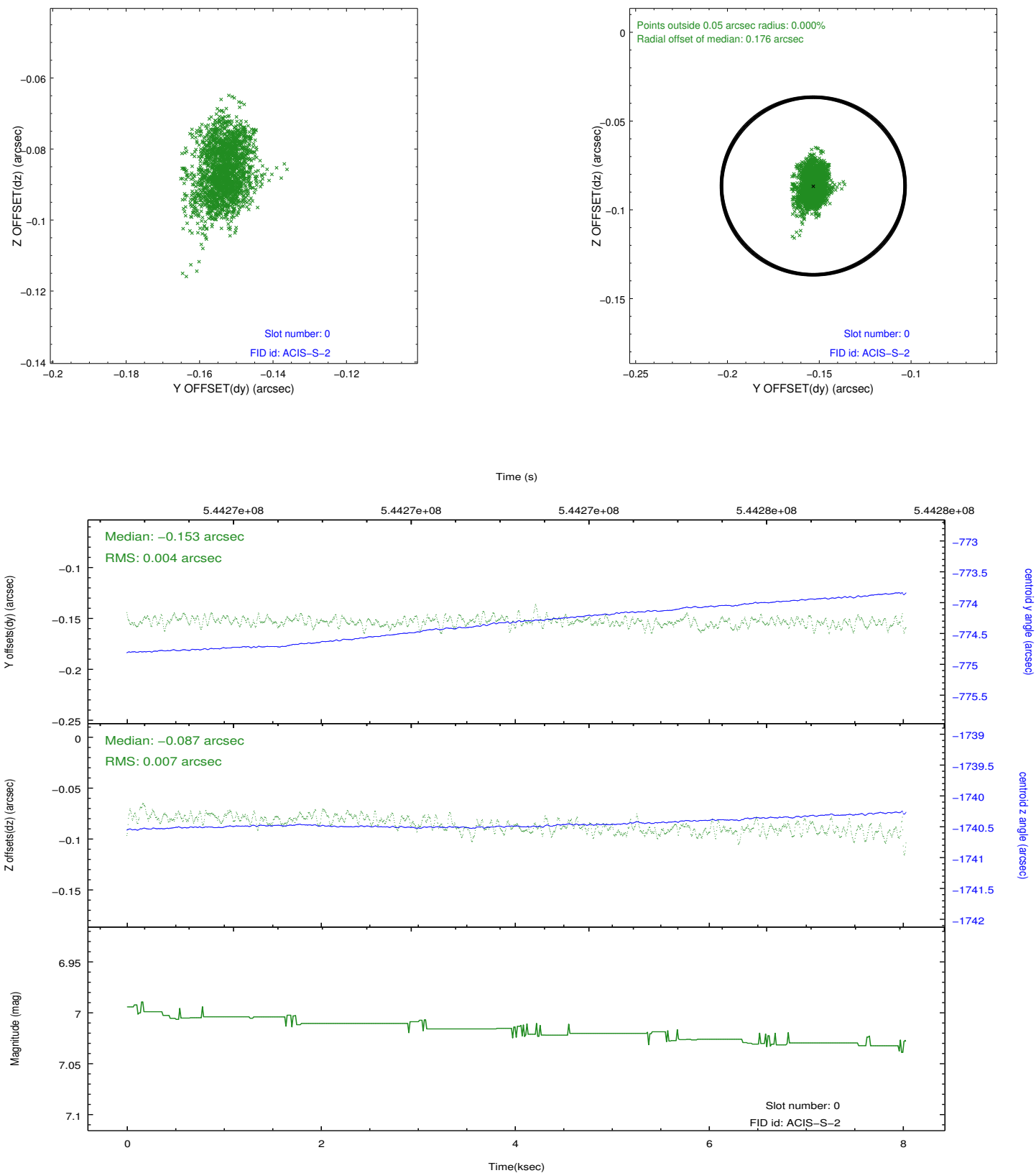


2.4.5 Slot 7

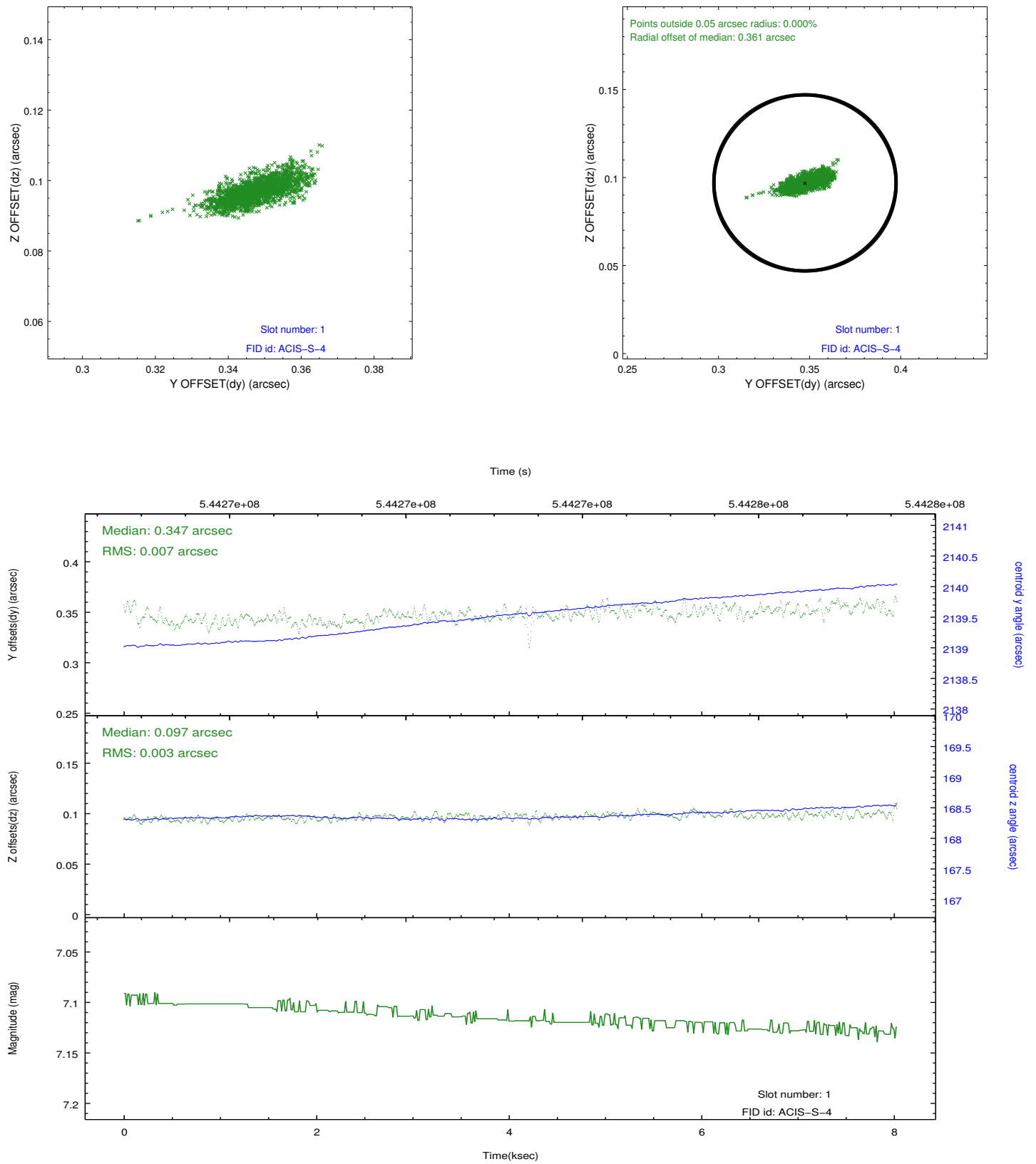


2.5 FID Slots

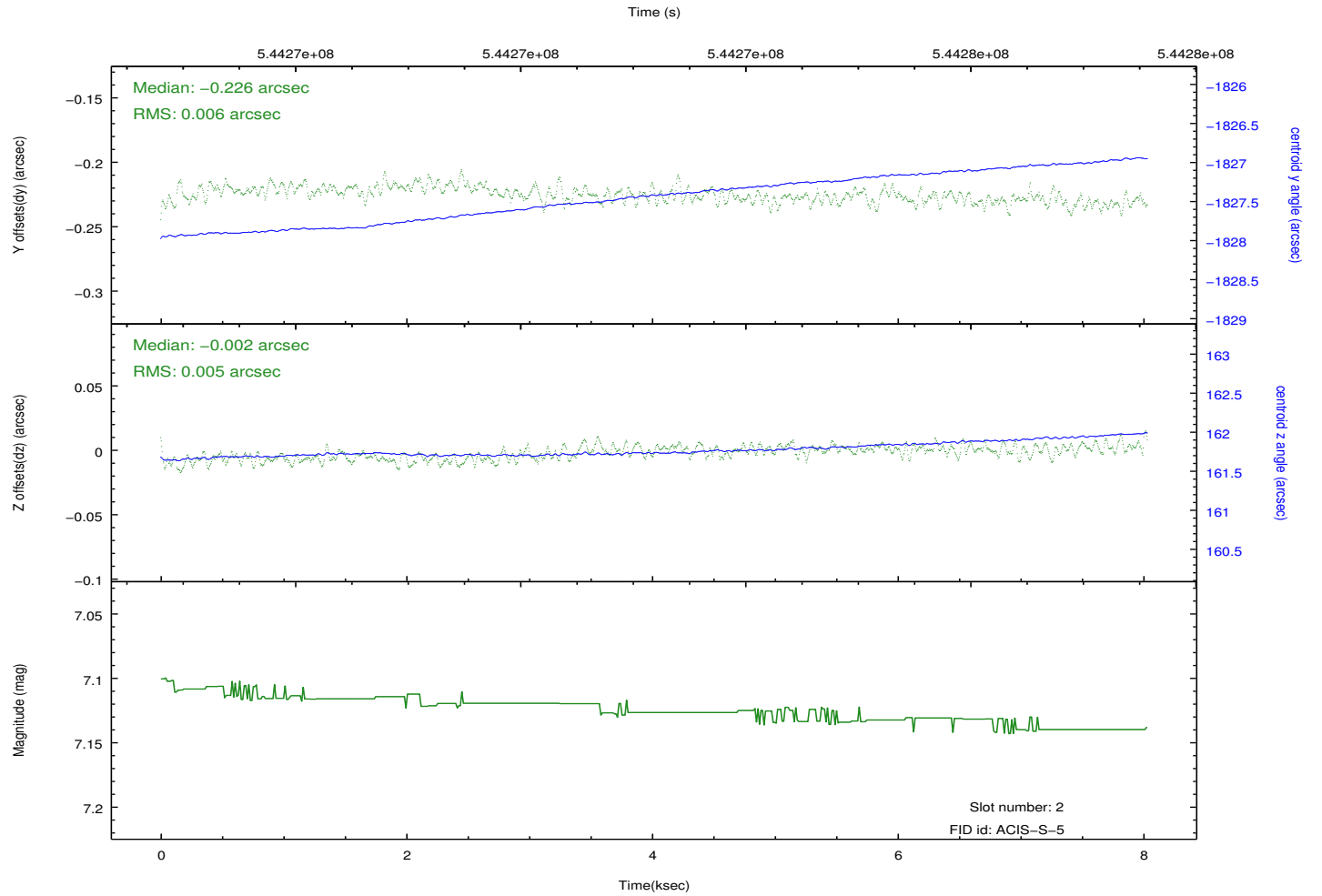
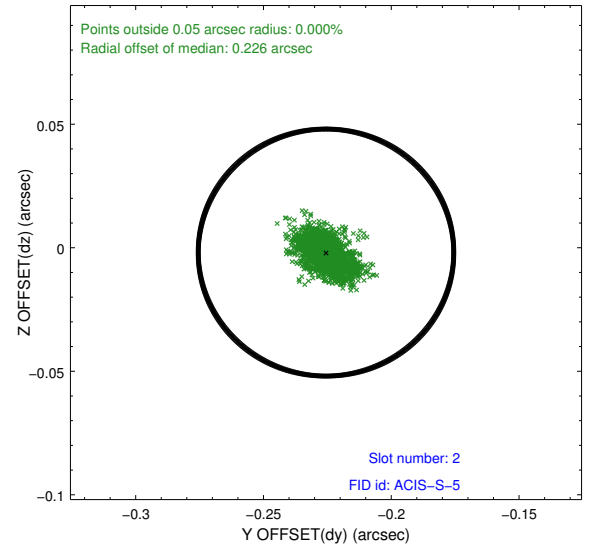
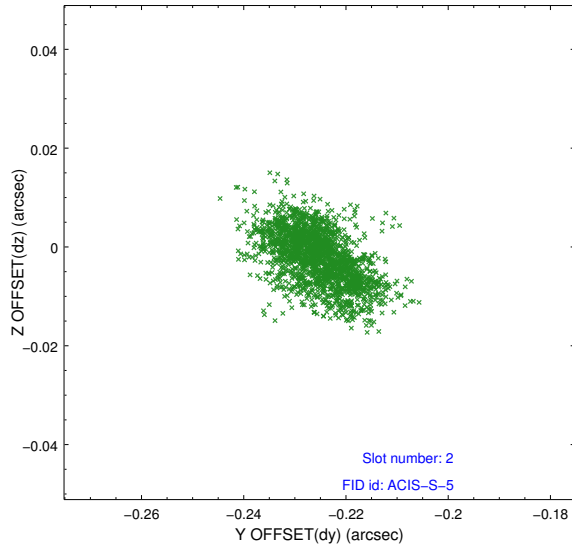
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.04.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.0611463017464

A.2 Comments