

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11376 - L2 Version 2
Chandra X-Ray Center

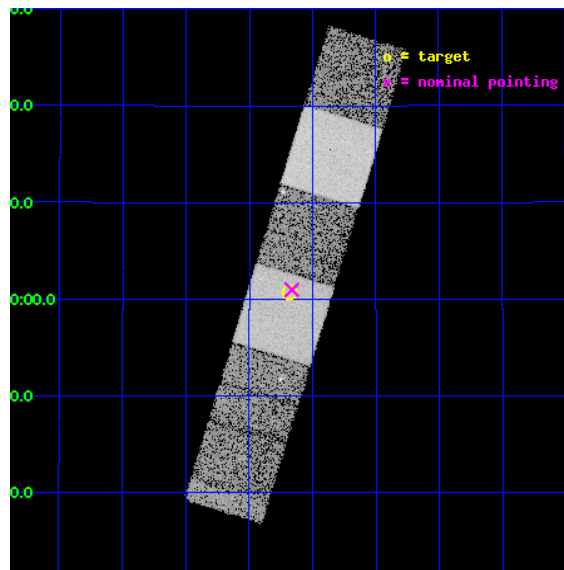
L2 Processing Date : Jun 19 2012

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

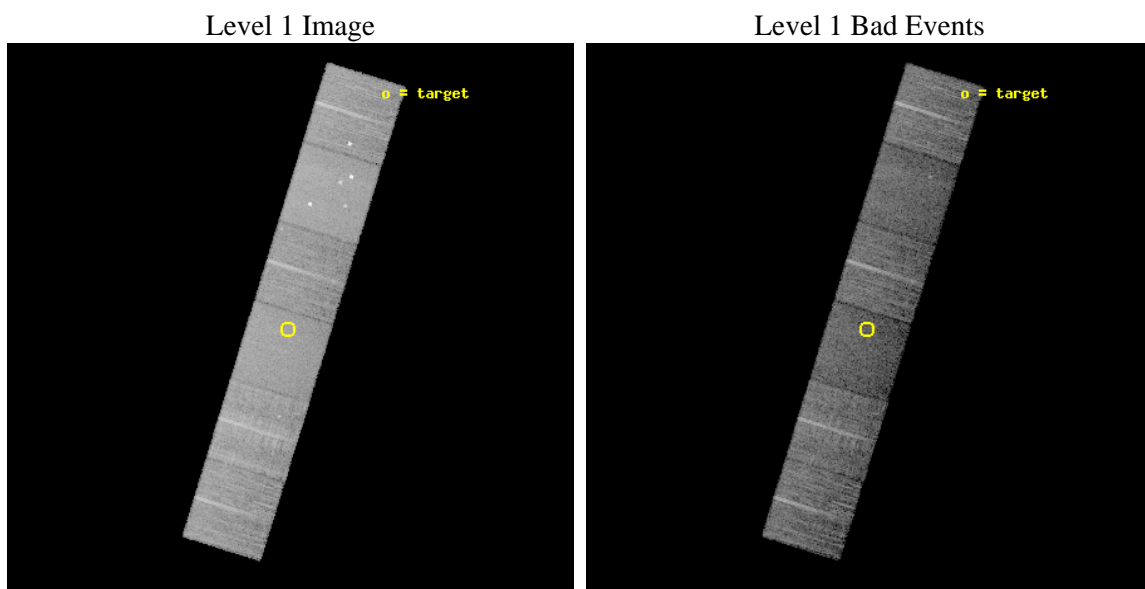
seq_num	600895	Sequence number
obs_id	11376	Observation id
title	Accretion onto nuclear black holes in early type galaxies: comparing field vs. clusters	Proposal title
observer	Elena Gallo	Principal investigator
object	PGC028305	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	147.545	Observer's specified target RA [deg]
dec_targ	28.01322	Observer's specified target Dec [deg]
ra_nom	147.54088793868	Nominal RA [deg]
dec_nom	28.016450887618	Nominal Dec [deg]
roll_nom	107.15853683074	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8236.4377220273	Sum of GTIs [s]
liveltime	8132.1429882036	Livetime [s]
ontime4	8236.4787620306	Sum of GTIs [s]
ontime5	8236.396682024	Sum of GTIs [s]
ontime6	8233.1146017313	Sum of GTIs [s]
ontime7	8236.4377220273	Sum of GTIs [s]
ontime8	8233.0735616684	Sum of GTIs [s]
ontime9	8233.0325117707	Sum of GTIs [s]
l2events	113432	Number of level 2 events



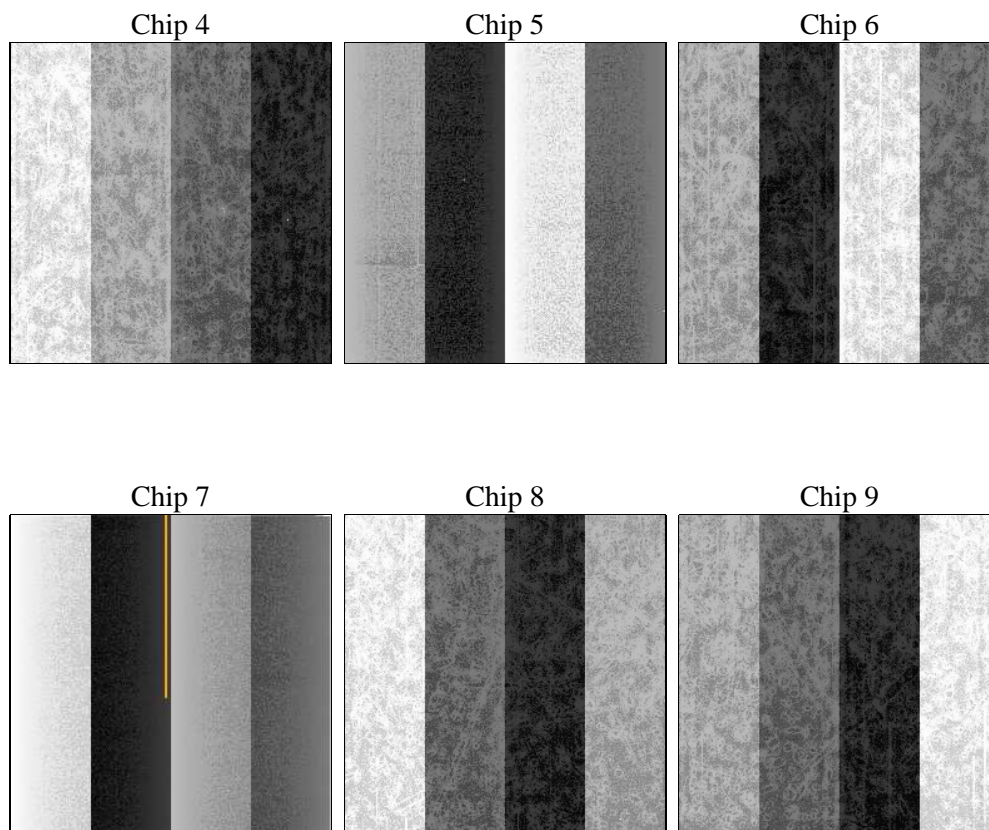
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8236.4377220273	Sum of GTIs [s]
caldsver	4.4.10	 	ontime4	8236.4787620306	Sum of GTIs [s]
date	2012-06-19T22:28:35	Date and time of file creation	ontime5	8236.396682024	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8233.1146017313	Sum of GTIs [s]
			ontime7	8236.4377220273	Sum of GTIs [s]
			ontime8	8233.0735616684	Sum of GTIs [s]
			ontime9	8233.0325117707	Sum of GTIs [s]
			l1events	524452	Number of level 1 events

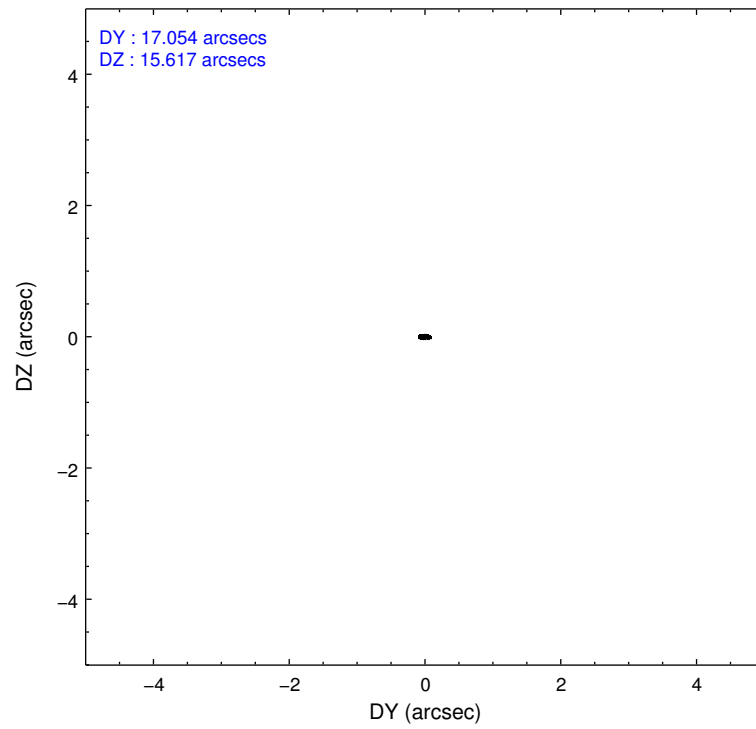
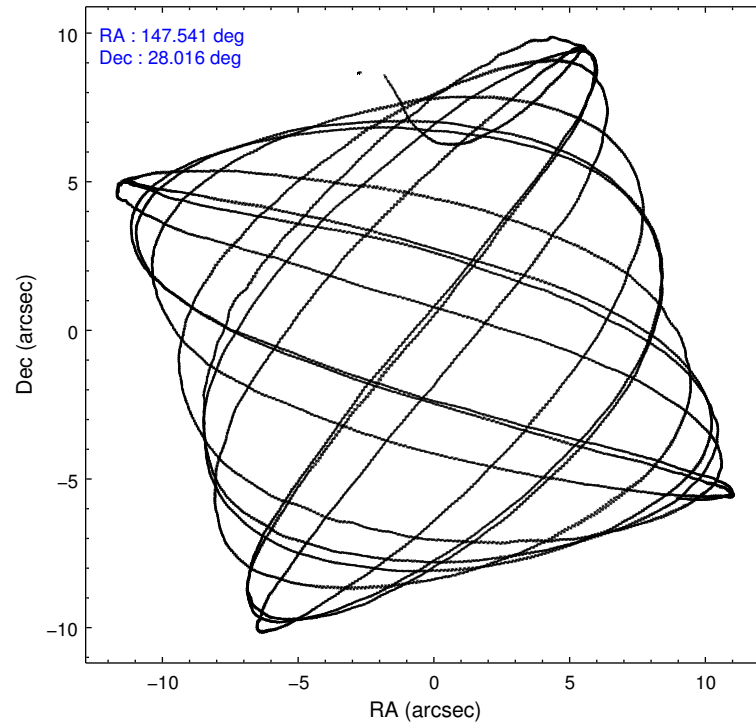
2.1.4 Events

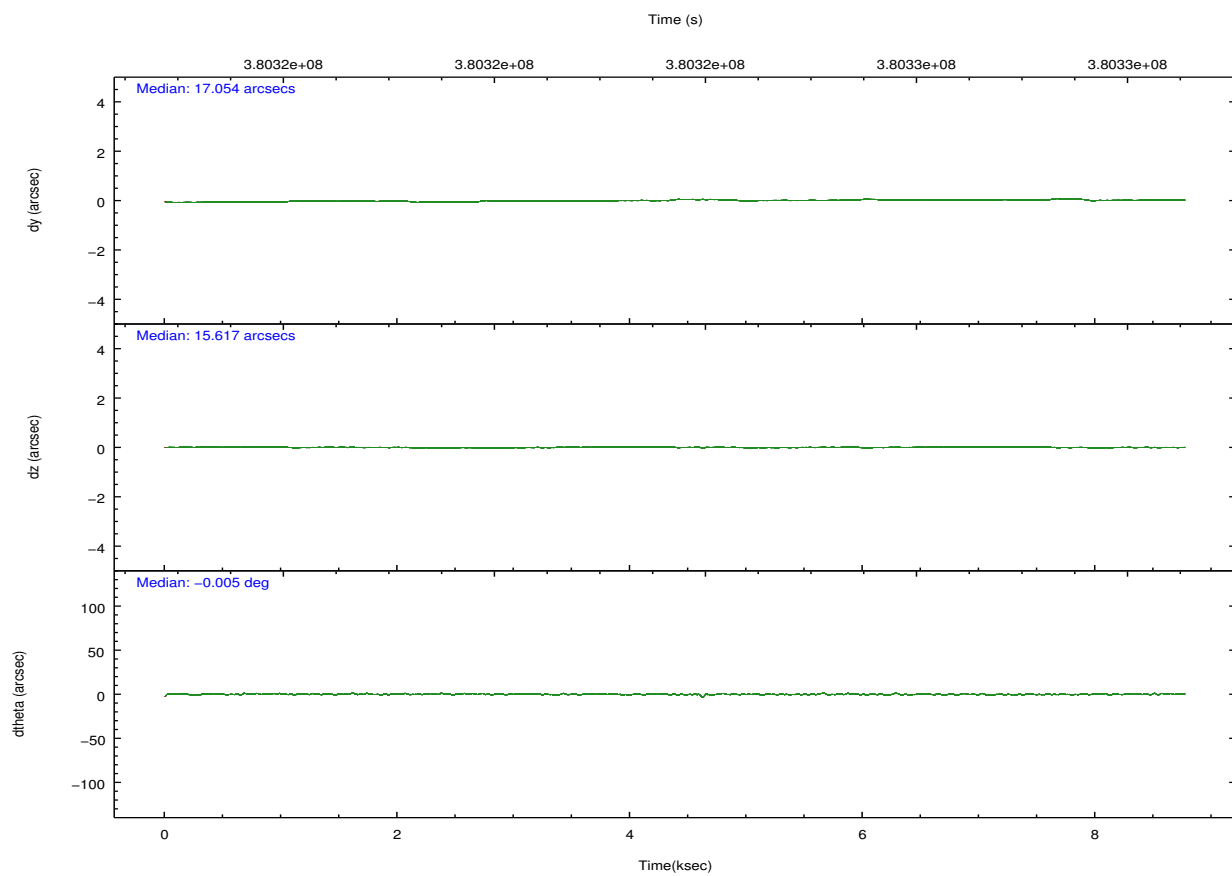
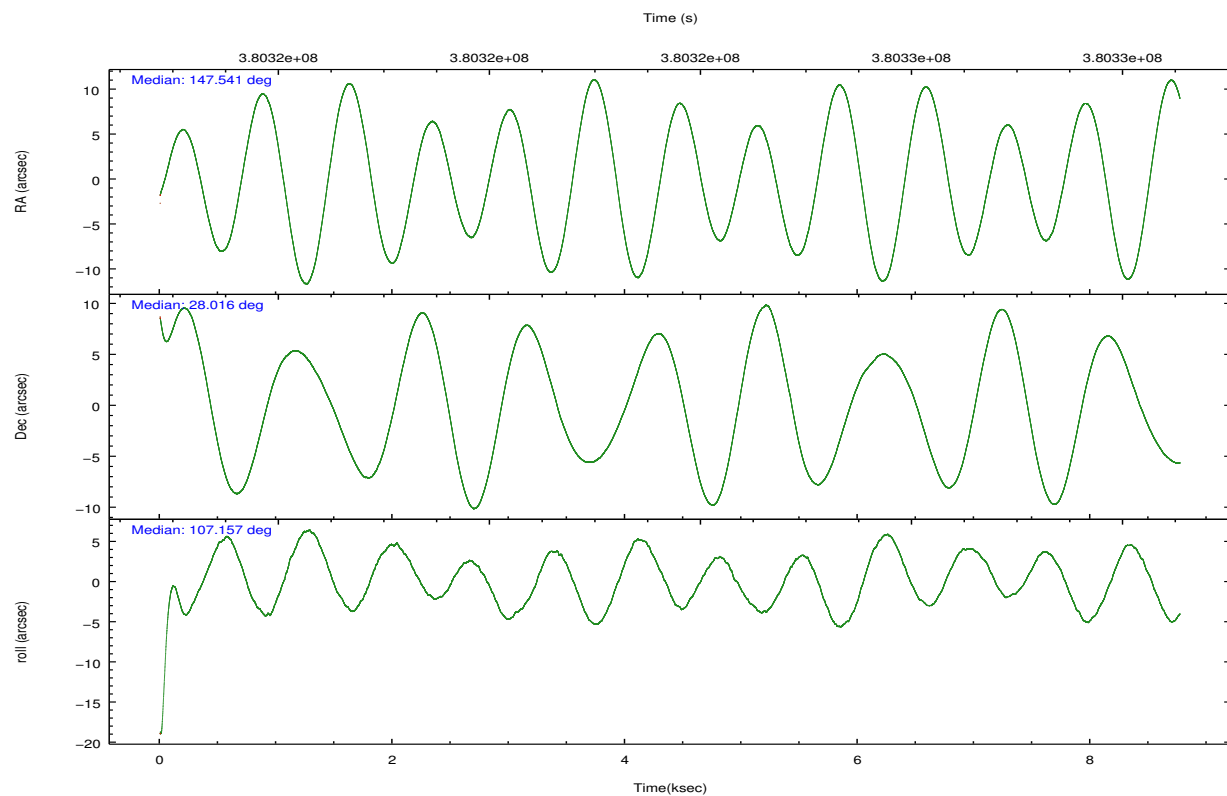
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	87629	109558	73402	84707	95329	73827	grade 0 events	4695	7382	2764	3621	6754	3085
rejected events	77947	53249	65627	46296	71898	65536		5%	6%	3%	4%	7%	4%
rejected %	88%	48%	89%	54%	75%	88%	grade 1 events	67	340	42	113	82	53
								0%	0%	0%	0%	0%	0%
							grade 2 events	1974	17687	1748	8103	5561	1807
								2%	16%	2%	9%	5%	2%
							grade 3 events	805	2036	826	3381	2461	879
								0%	1%	1%	3%	2%	1%
							grade 4 events	811	1963	783	3365	2315	834
								0%	1%	1%	3%	2%	1%
							grade 5 events	3112	7962	3080	8804	4500	3374
								3%	7%	4%	10%	4%	4%
							grade 6 events	1400	27273	1660	19967	6356	1693
								1%	24%	2%	23%	6%	2%
							grade 7 events	74765	44915	62499	37353	67300	62102
								85%	40%	85%	44%	70%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	147.563855	147.5408879386752	CCD I2 on	N	N
[deg] Pointing Dec	27.998097	28.01645088761829	CCD I3 on	N	N
[deg] Pointing Roll	106.991150	107.1585368307413	CCD S0 on	O1	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[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	Y	Y
[s] Observation start time (MET)	380319904.184000	380318708.63151	CCD S5 on	O2	Y
Observation start date	2010-01-19T20:23:58	2010-01-19T20:05:08	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	380328104.184000	380329113.91954	On-chip summing requested	N	N
Observation end date	2010-01-19T22:40:38	2010-01-19T22:58:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



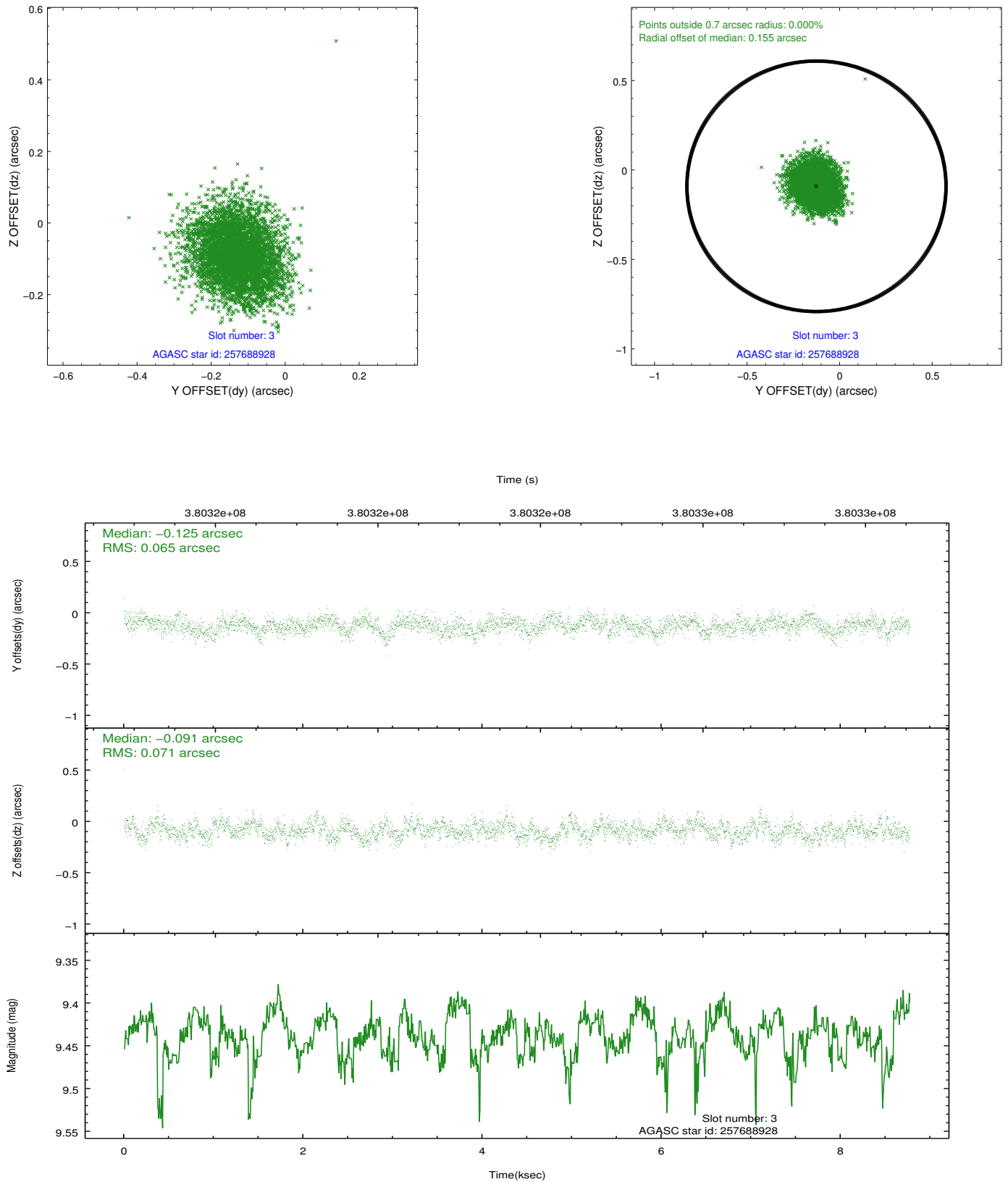


Slot Statistics

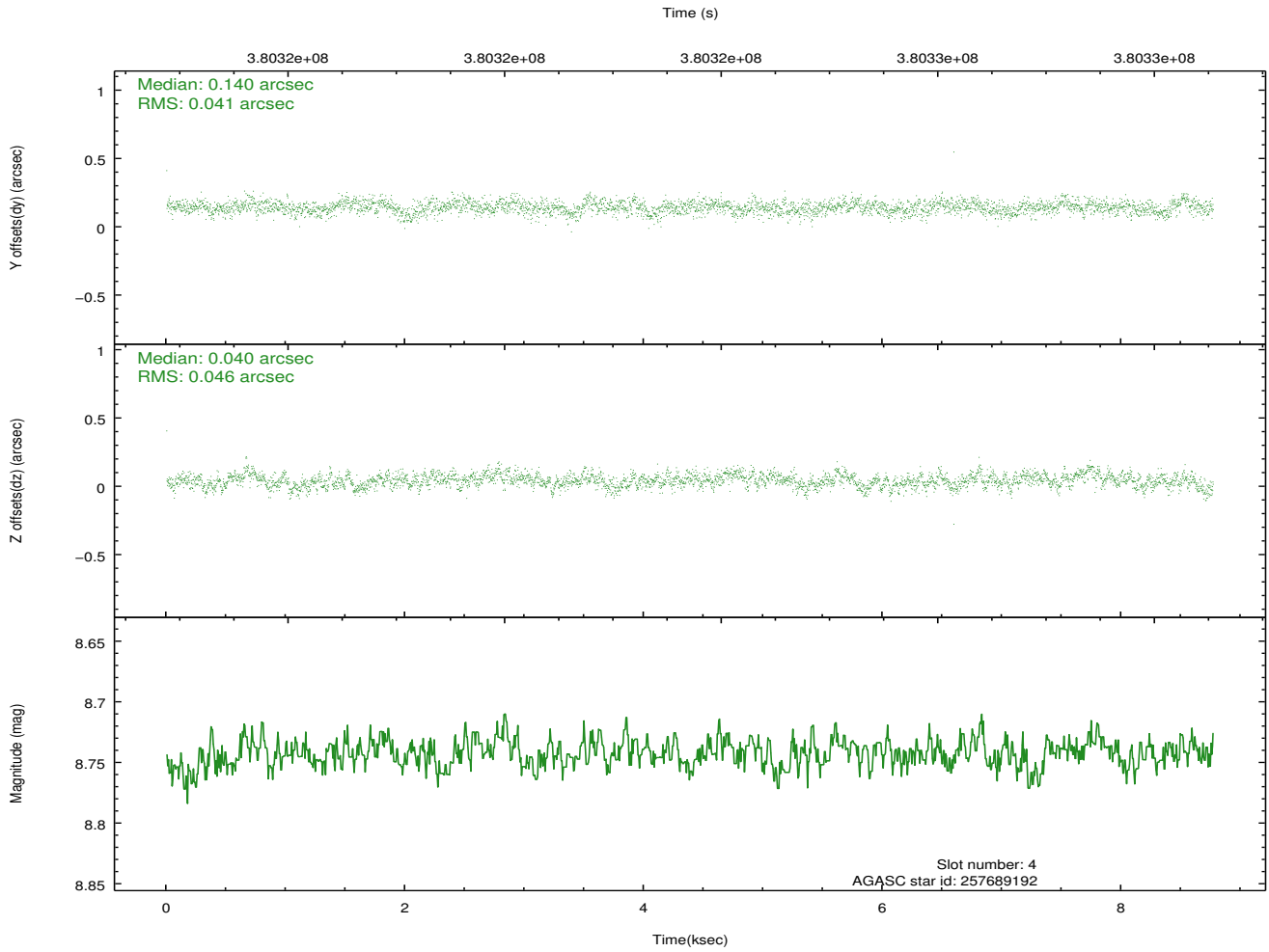
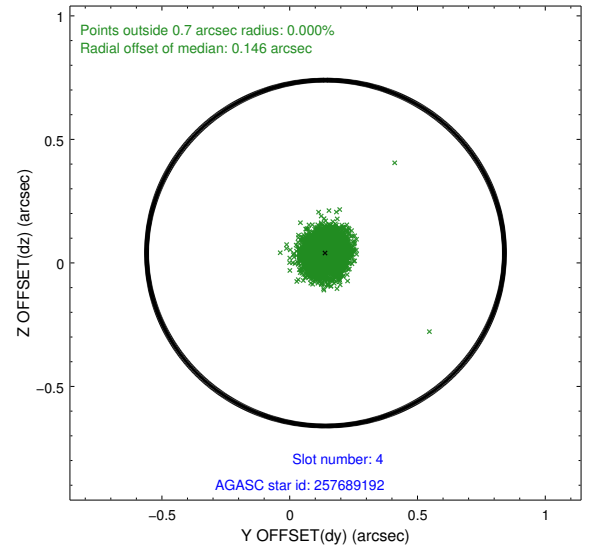
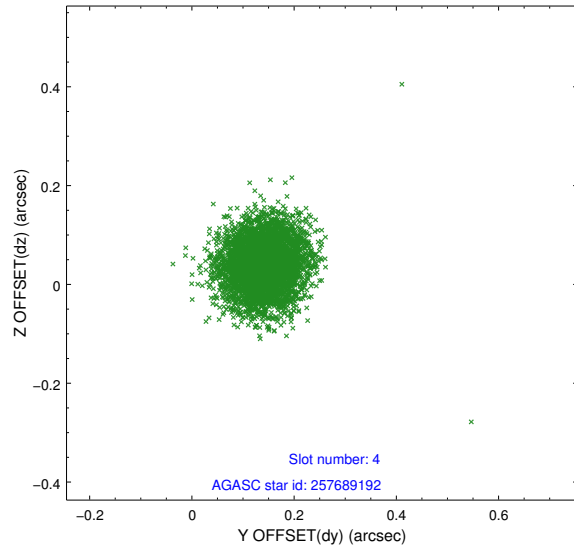
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.96	2139	-0.032	-0.033	0.006	0.009	0.000000	0.000000	-770.07	-1737.06
1	FID	ACIS-S-5	7.09	2139	-0.062	-0.020	0.006	0.010	0.000000	0.000000	-1823.54	164.25
2	FID	ACIS-S-6	7.19	2139	0.069	0.061	0.005	0.009	0.000000	0.000000	390.91	808.99
3	GUIDE	257688928	9.44	4264	-0.125	-0.091	0.102	0.163	147.358691	28.081568	477.72	535.12
4	GUIDE	257689192	8.74	4274	0.140	0.040	0.065	0.106	147.876721	27.573231	-1753.14	-508.04
5	GUIDE	257690776	9.80	4264	0.009	0.042	0.133	0.210	147.558649	28.185362	649.22	-179.47
6	GUIDE	257818672	7.77	4276	-0.096	-0.066	0.062	0.105	148.119550	27.774054	-1284.62	-1458.17
7	GUIDE	257689832	9.56	4271	0.078	0.070	0.126	0.202	146.621684	28.436729	2392.44	2387.57

2.4 Star Slots

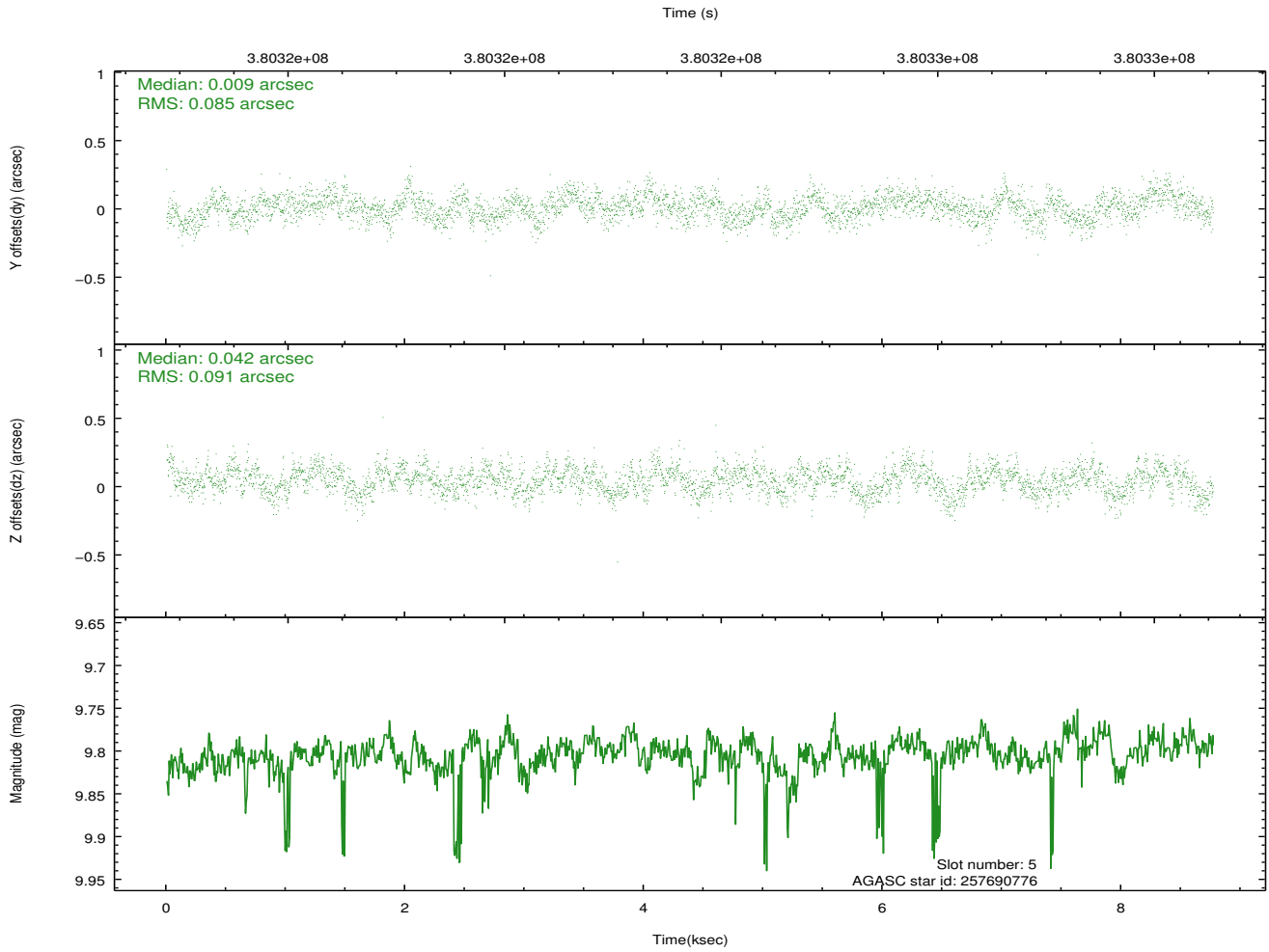
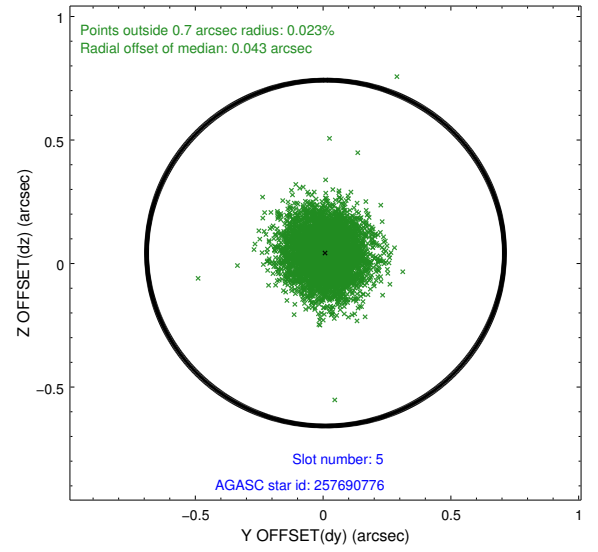
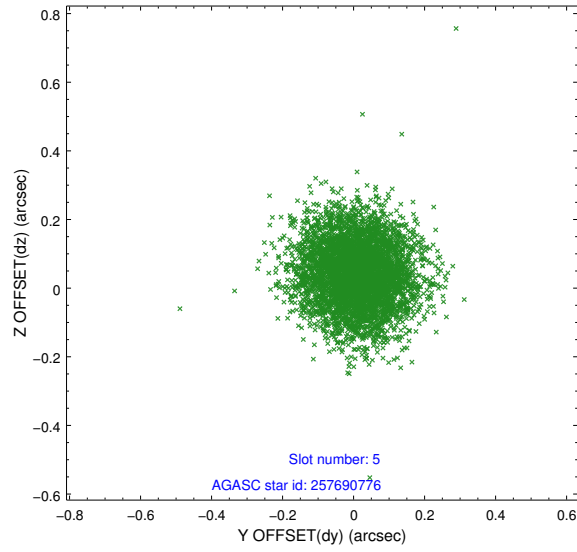
2.4.1 Slot 3



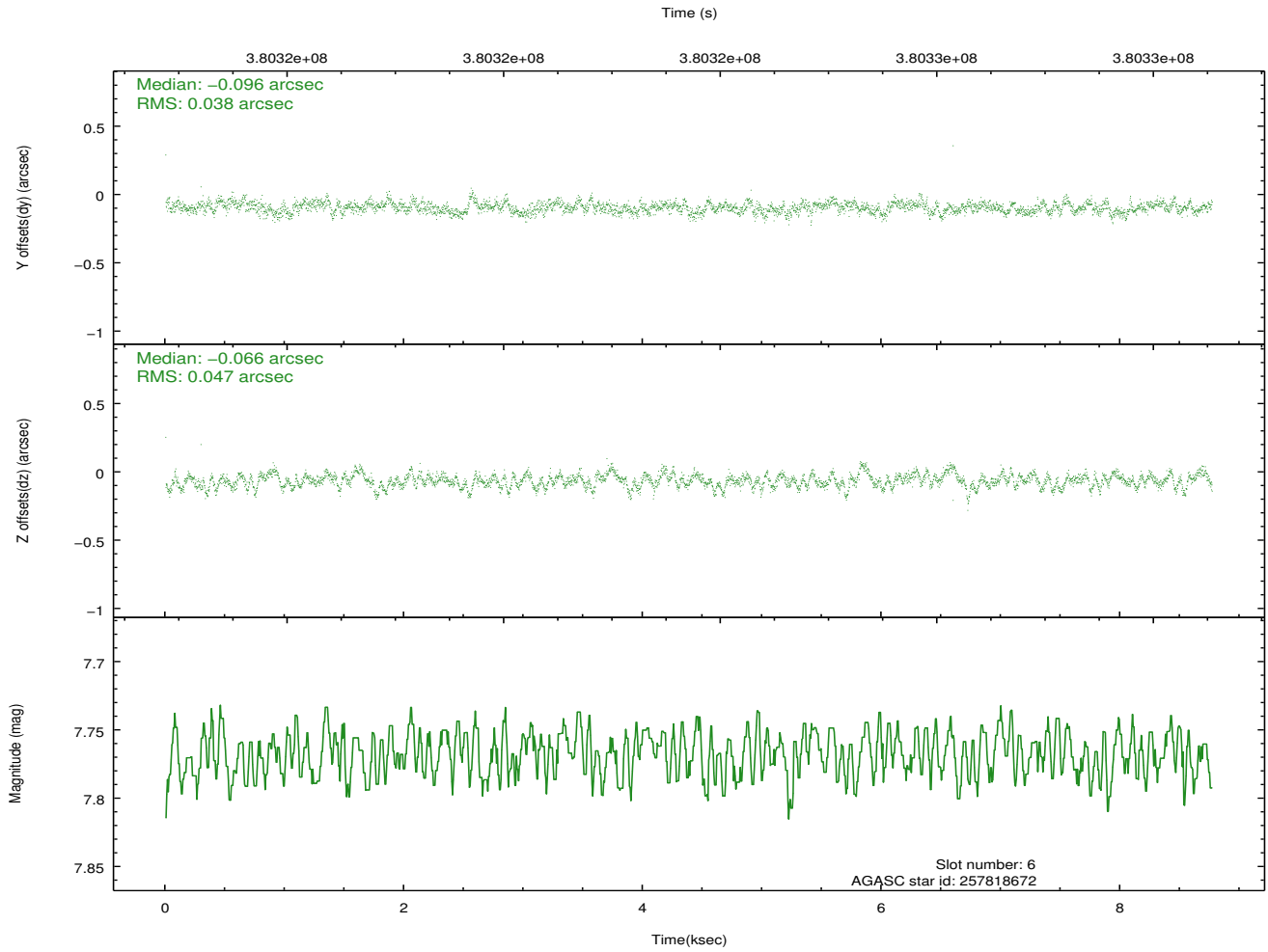
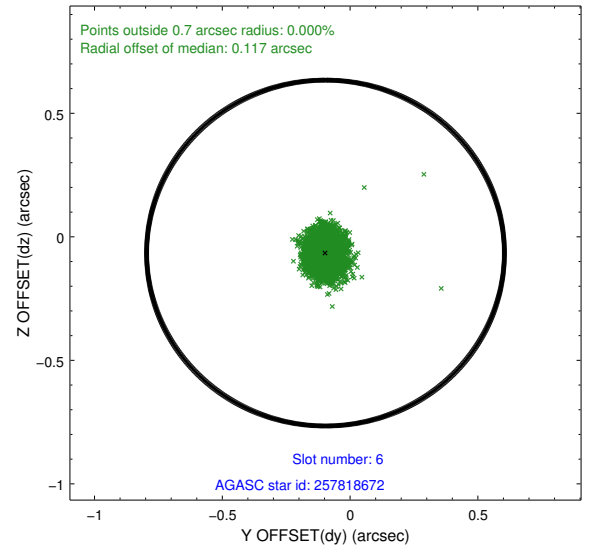
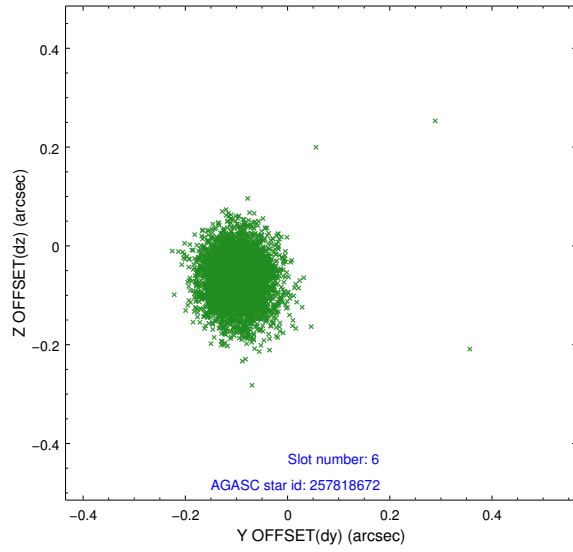
2.4.2 Slot 4



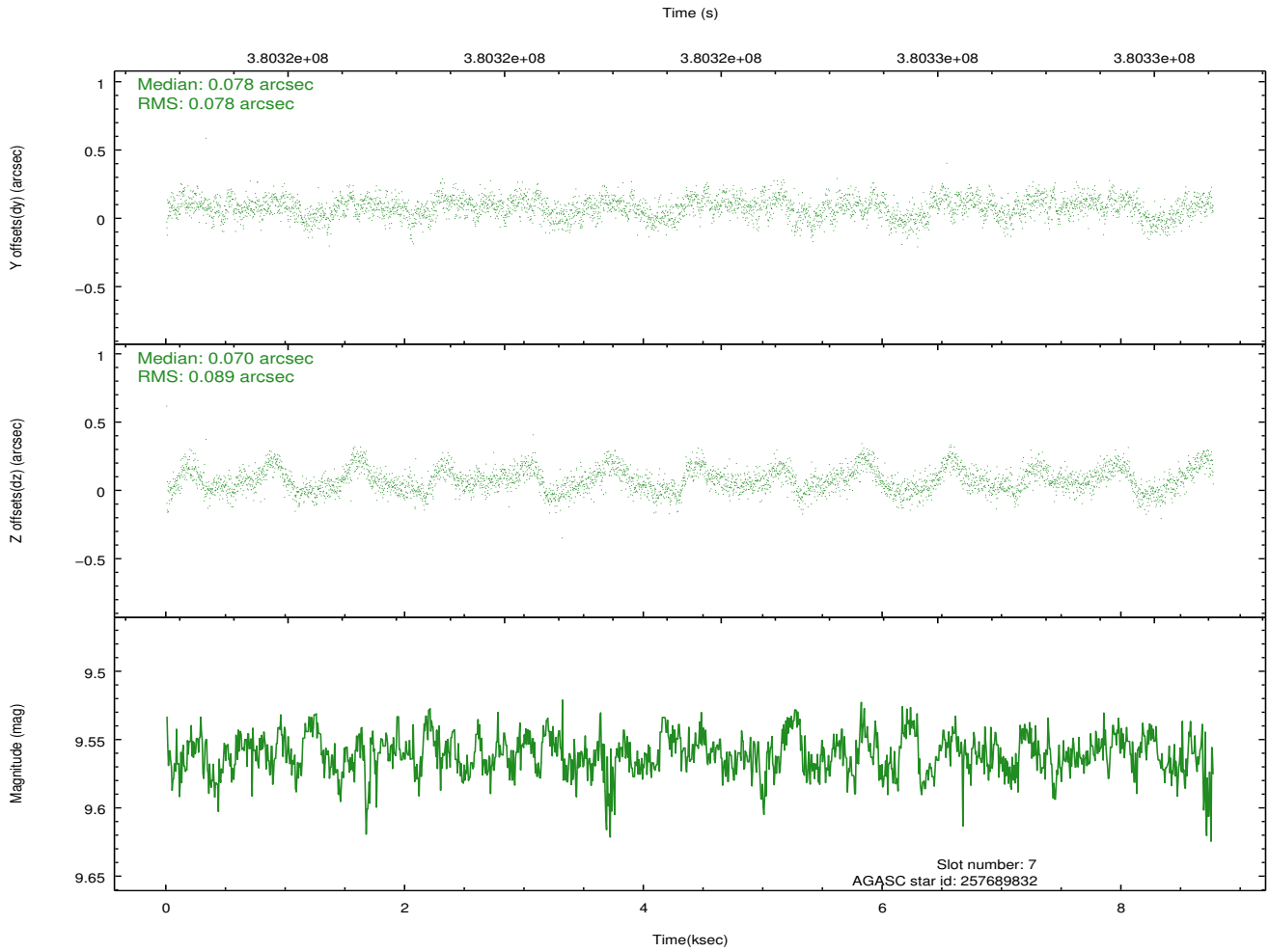
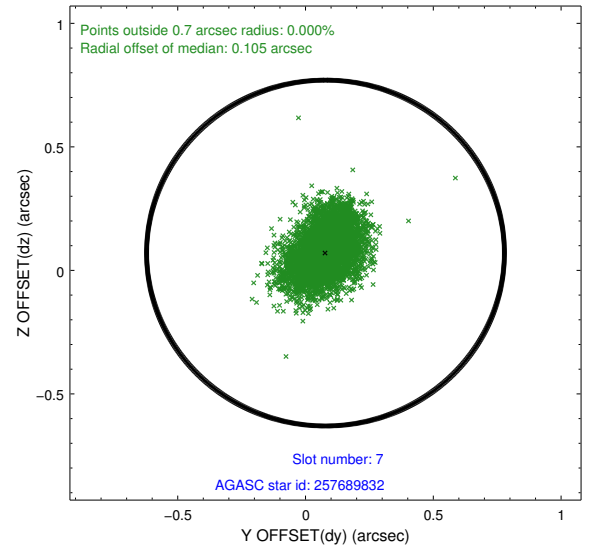
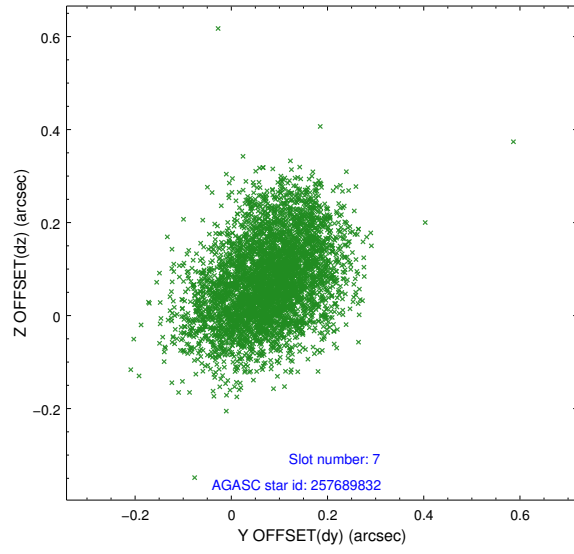
2.4.3 Slot 5



2.4.4 Slot 6

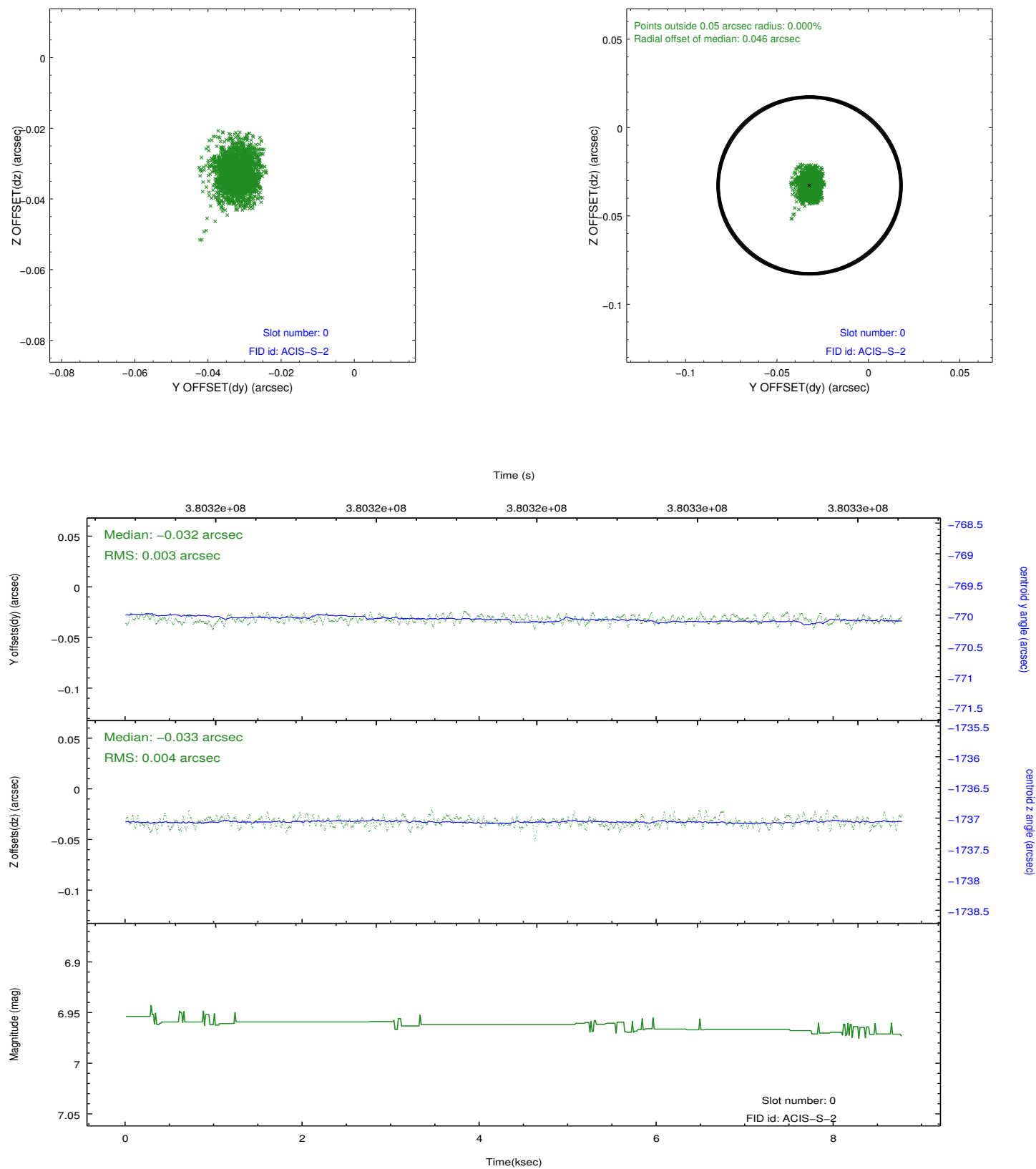


2.4.5 Slot 7

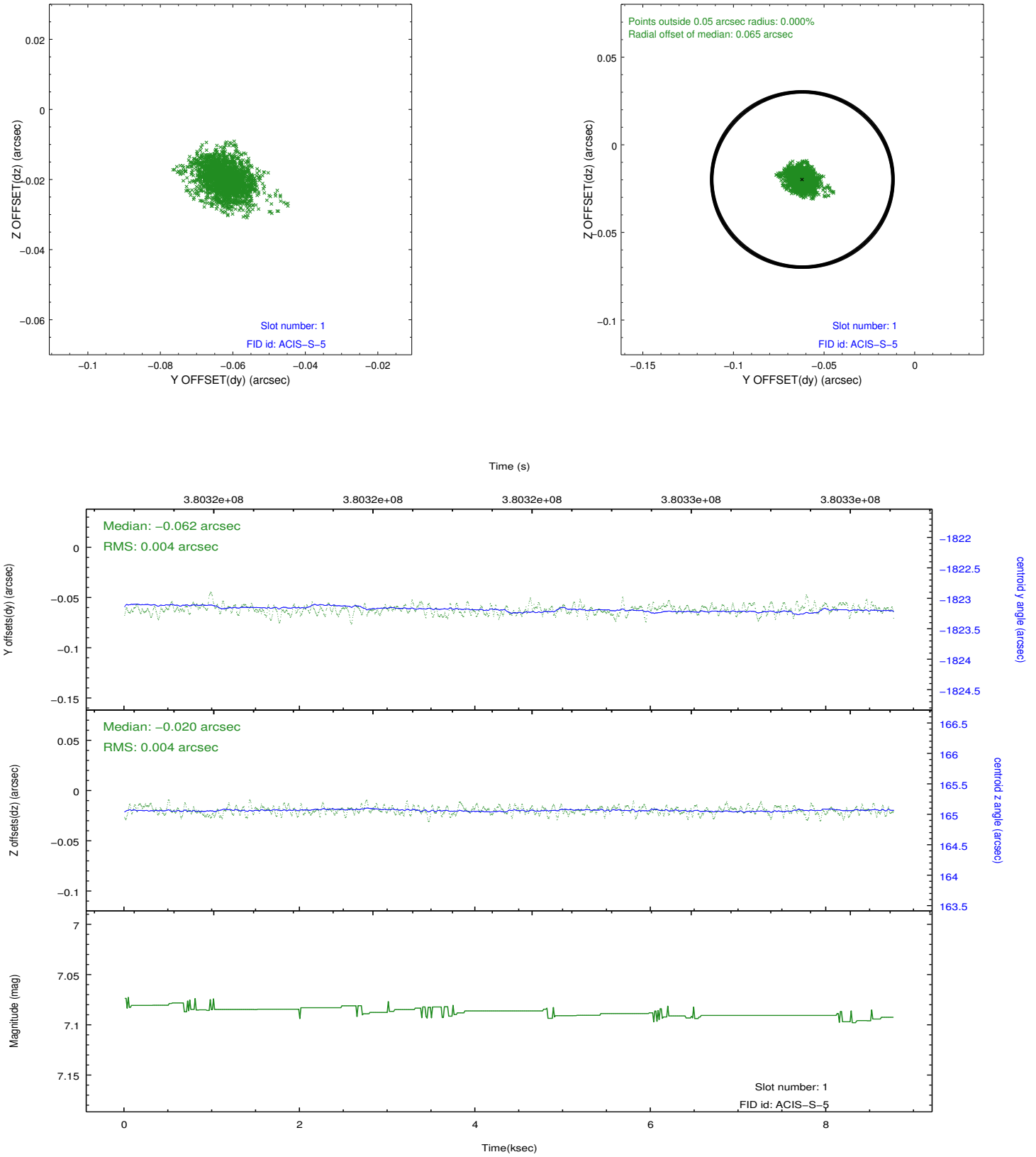


2.5 FID Slots

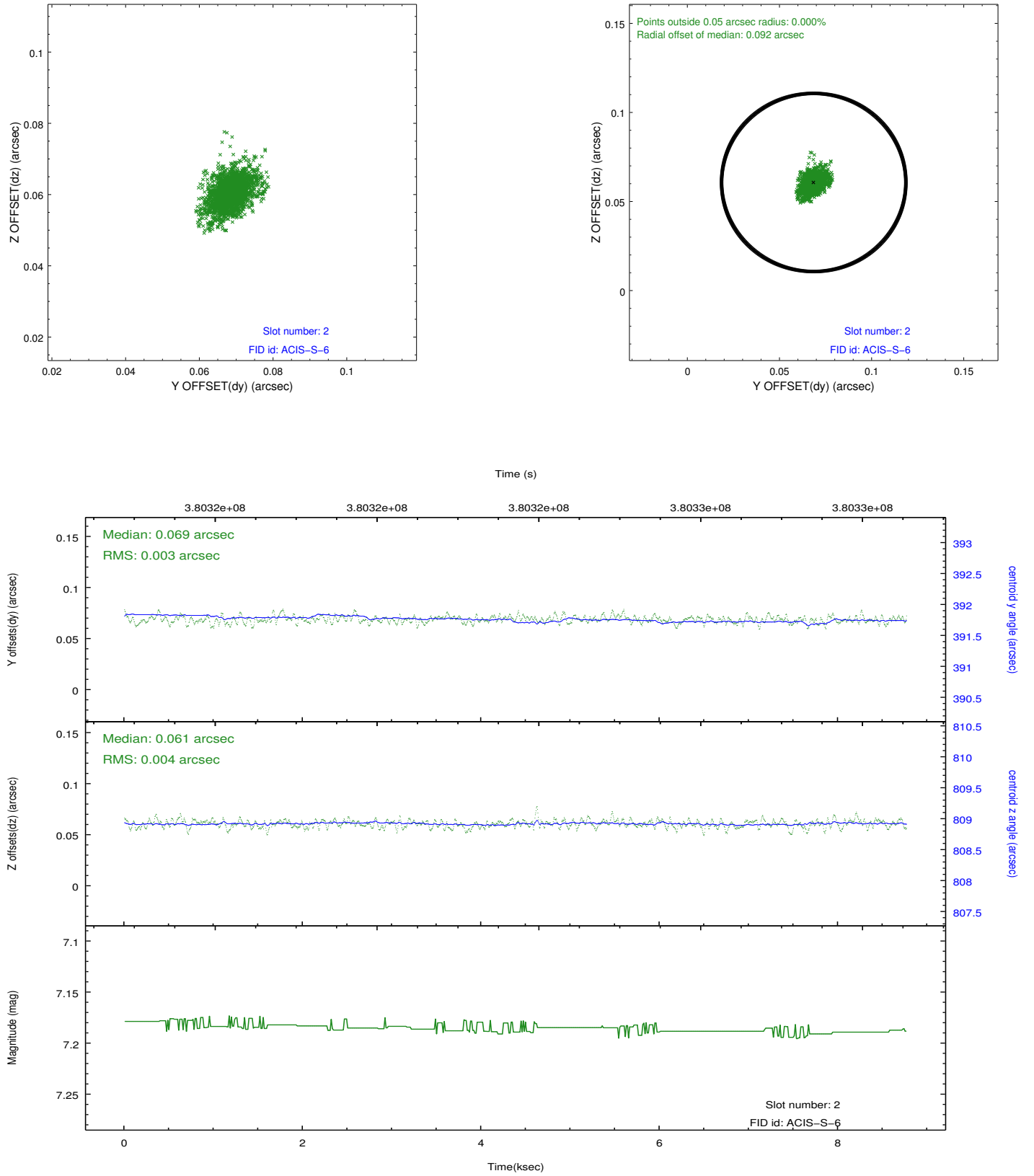
2.5.1 Slot 0



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)	2012.06.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2364377217293

A.2 Comments