

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11335 - L2 Version 2
Chandra X-Ray Center

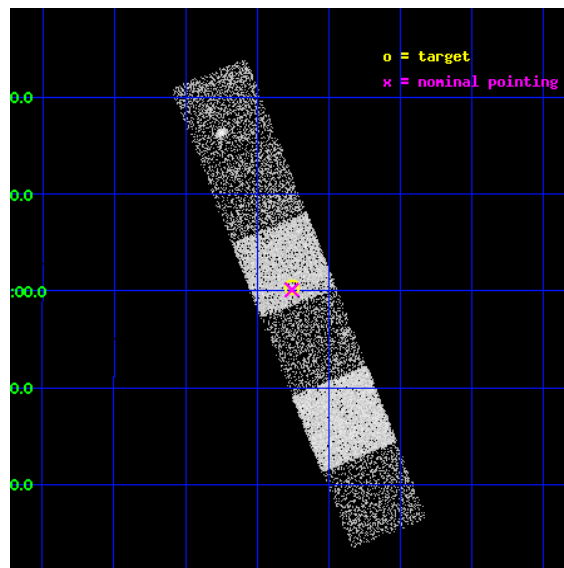
L2 Processing Date : Jun 29 2012

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

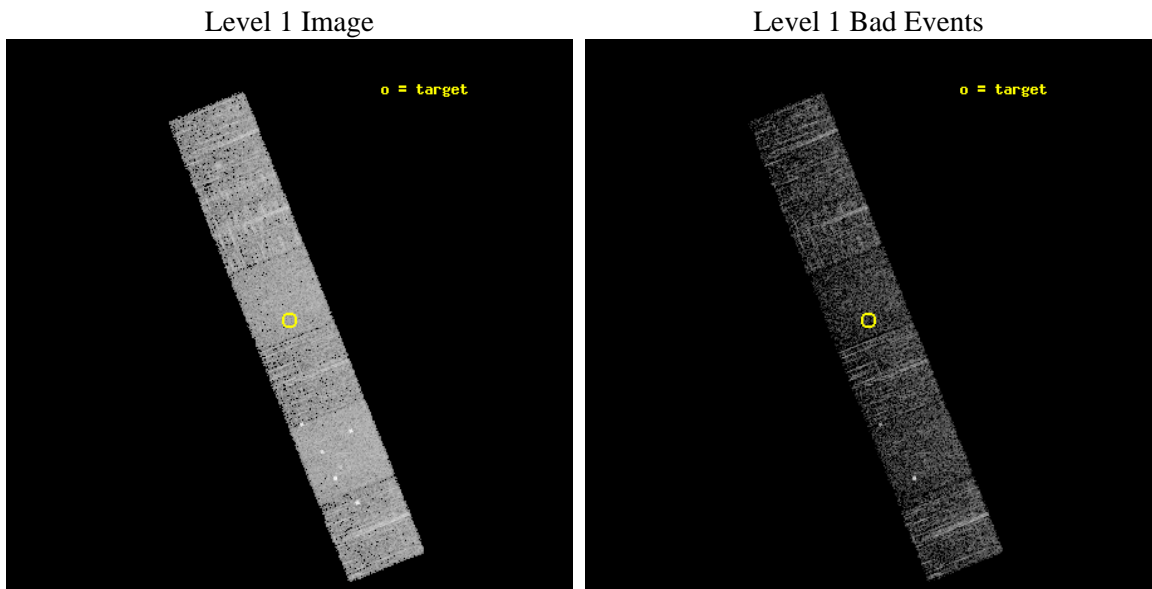
seq_num	600854	Sequence number
obs_id	11335	Observation id
title	Accretion onto nuclear black holes in early type galaxies: comparing field vs. clusters	Proposal title
observer	Elena Gallo	Principal investigator
object	PGC042596	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	190.438	Observer's specified target RA [deg]
dec_targ	4.00656	Observer's specified target Dec [deg]
ra_nom	190.43887745586	Nominal RA [deg]
dec_nom	4.001792669253	Nominal Dec [deg]
roll_nom	248.27594654979	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2543.9999905825	Sum of GTIs [s]
liveltime	2511.7863308888	Livetime [s]
ontime4	2543.9999905825	Sum of GTIs [s]
ontime5	2543.9999905825	Sum of GTIs [s]
ontime6	2543.9999905825	Sum of GTIs [s]
ontime7	2543.9999905825	Sum of GTIs [s]
ontime8	2543.9999905825	Sum of GTIs [s]
ontime9	2543.9999905825	Sum of GTIs [s]
l2events	32376	Number of level 2 events



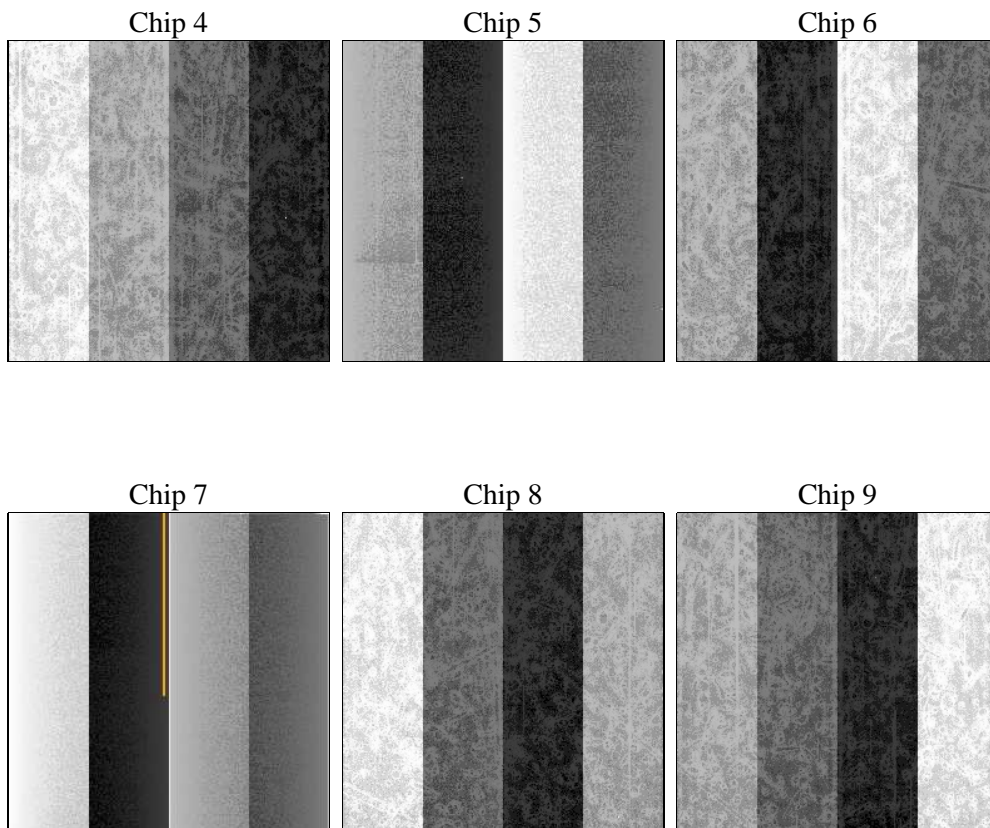
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2543.9999905825	Sum of GTIs [s]
caldsver	4.5.0	 	ontime4	2543.9999905825	Sum of GTIs [s]
date	2012-06-30T00:24:15	Date and time of file creation	ontime5	2543.9999905825	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	2543.9999905825	Sum of GTIs [s]
			ontime7	2543.9999905825	Sum of GTIs [s]
			ontime8	2543.9999905825	Sum of GTIs [s]
			ontime9	2543.9999905825	Sum of GTIs [s]
			l1events	141563	Number of level 1 events

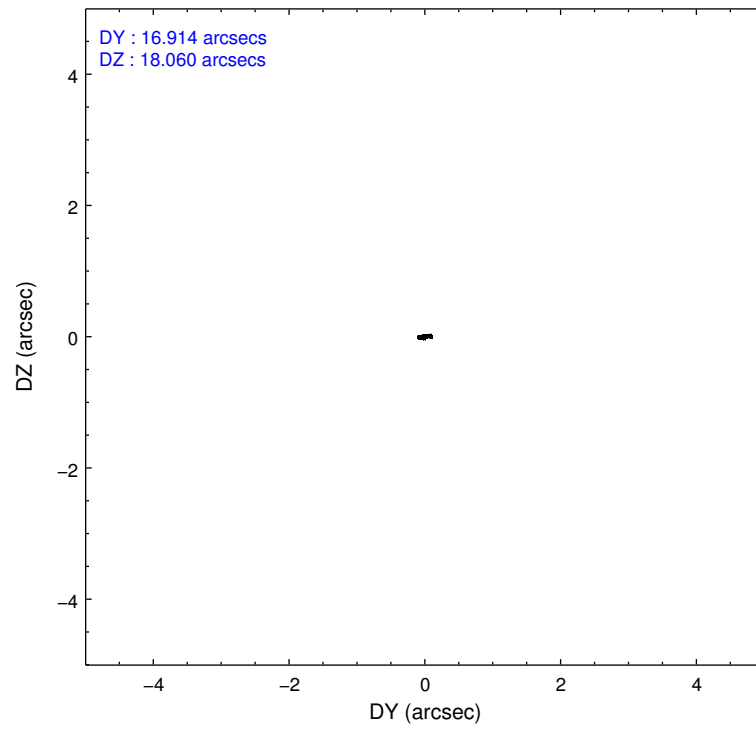
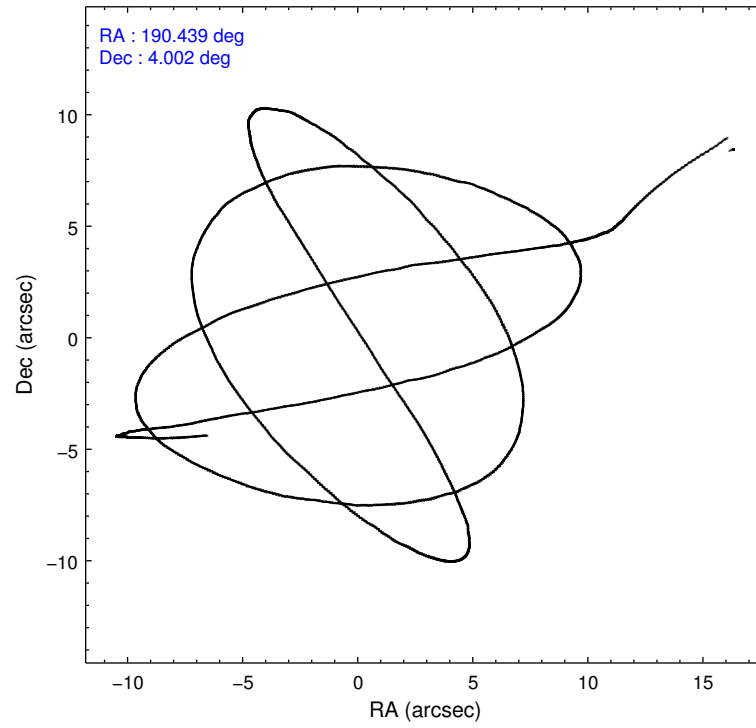
2.1.4 Events

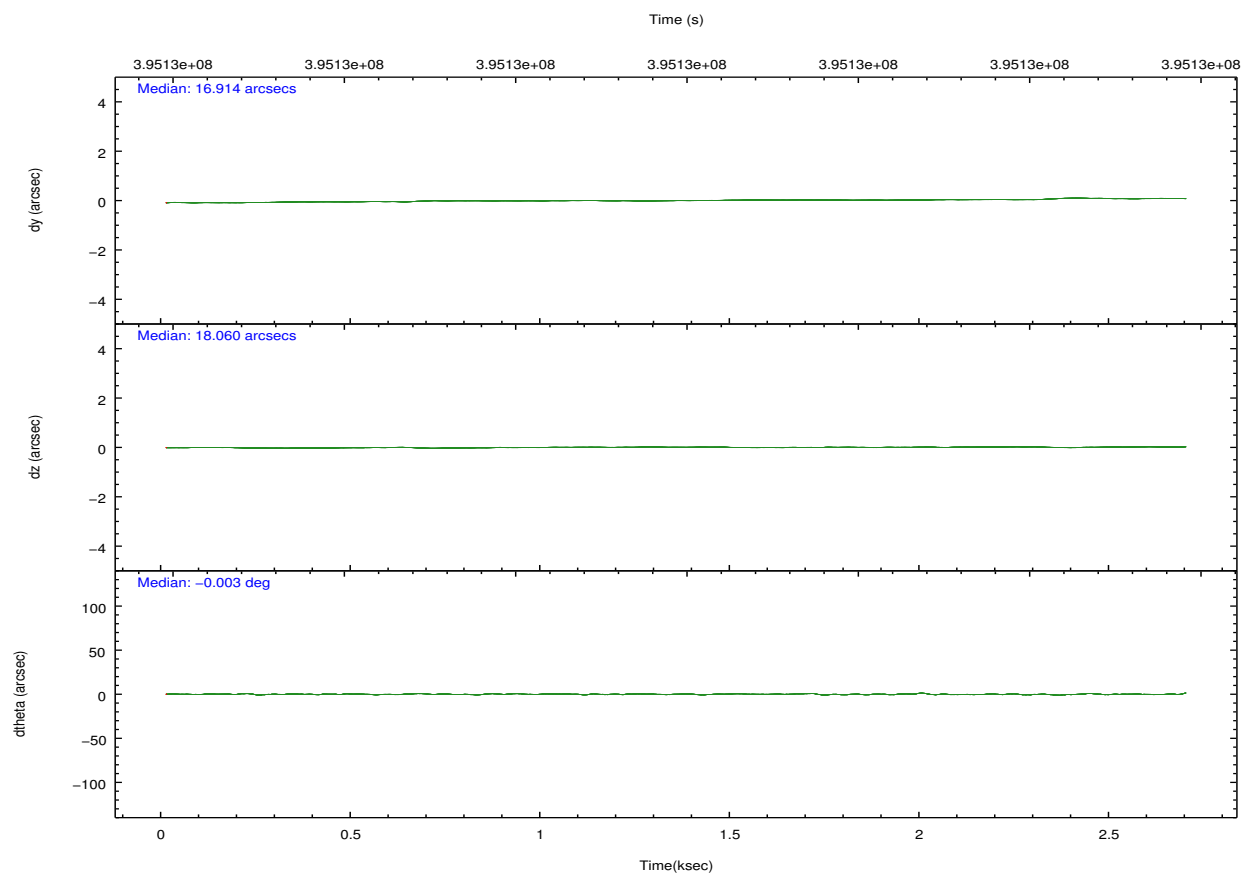
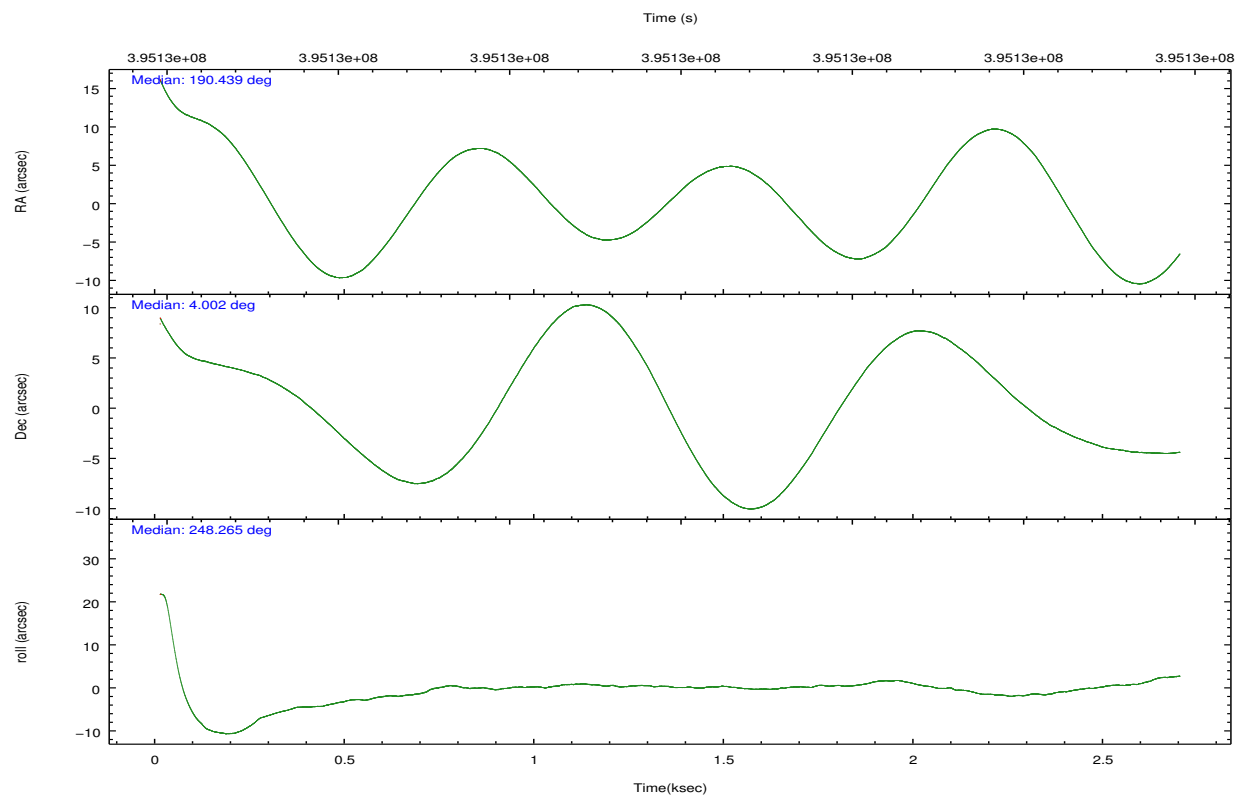
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	22724	31397	20092	23635	25042	18673	grade 0 events	1447	2073	777	1046	2063	1104
rejected events	19823	15623	17894	13011	17928	16025		6%	6%	3%	4%	8%	5%
rejected %	87%	49%	89%	55%	71%	85%	grade 1 events	16	105	13	32	27	9
								0%	0%	0%	0%	0%	0%
							grade 2 events	574	4564	527	2118	1713	528
								2%	14%	2%	8%	6%	2%
							grade 3 events	231	768	203	932	728	252
								1%	2%	1%	3%	2%	1%
							grade 4 events	248	639	224	906	670	261
								1%	2%	1%	3%	2%	1%
							grade 5 events	822	2646	848	2388	1261	959
								3%	8%	4%	10%	5%	5%
							grade 6 events	410	7772	472	5652	1946	510
								1%	24%	2%	23%	7%	2%
							grade 7 events	18976	12830	17028	10561	16634	15050
								83%	40%	84%	44%	66%	80%

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	190.434523	190.4388774558589	CCD I2 on	N	N
[deg] Pointing Dec	4.028789	4.001792669252969	CCD I3 on	N	N
[deg] Pointing Roll	248.119497	248.2759465497876	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	-190.145094680475	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01257209746719923	CCD S4 on	Y	Y
[s] Observation start time (MET)	395128813.184000	395127291.30933	CCD S5 on	O2	Y
Observation start date	2010-07-10T05:59:07	2010-07-10T05:34:51	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	395131313.184000	395131944.29706	On-chip summing requested	N	N
Observation end date	2010-07-10T06:40:47	2010-07-10T06:52:24	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



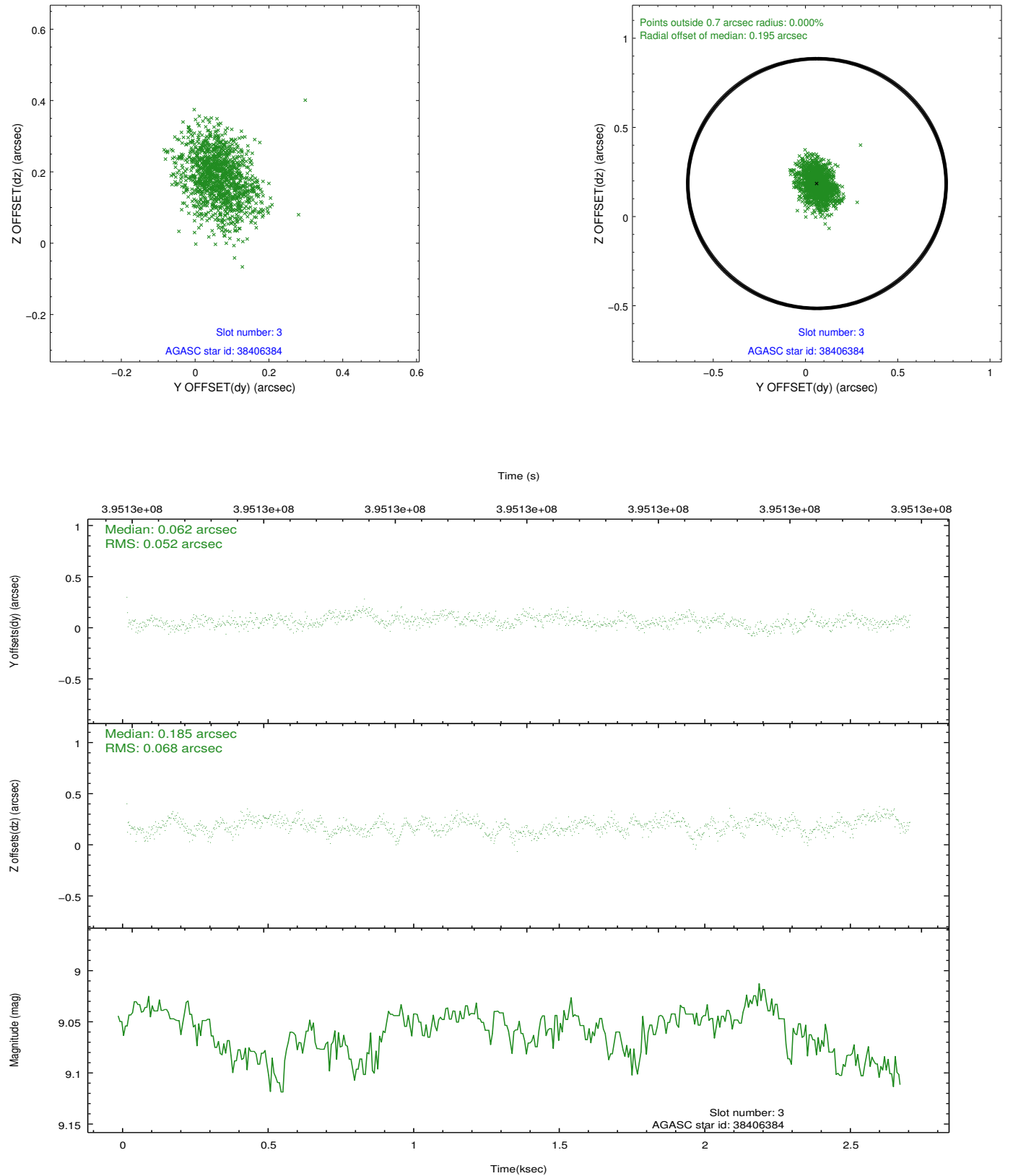


Slot Statistics

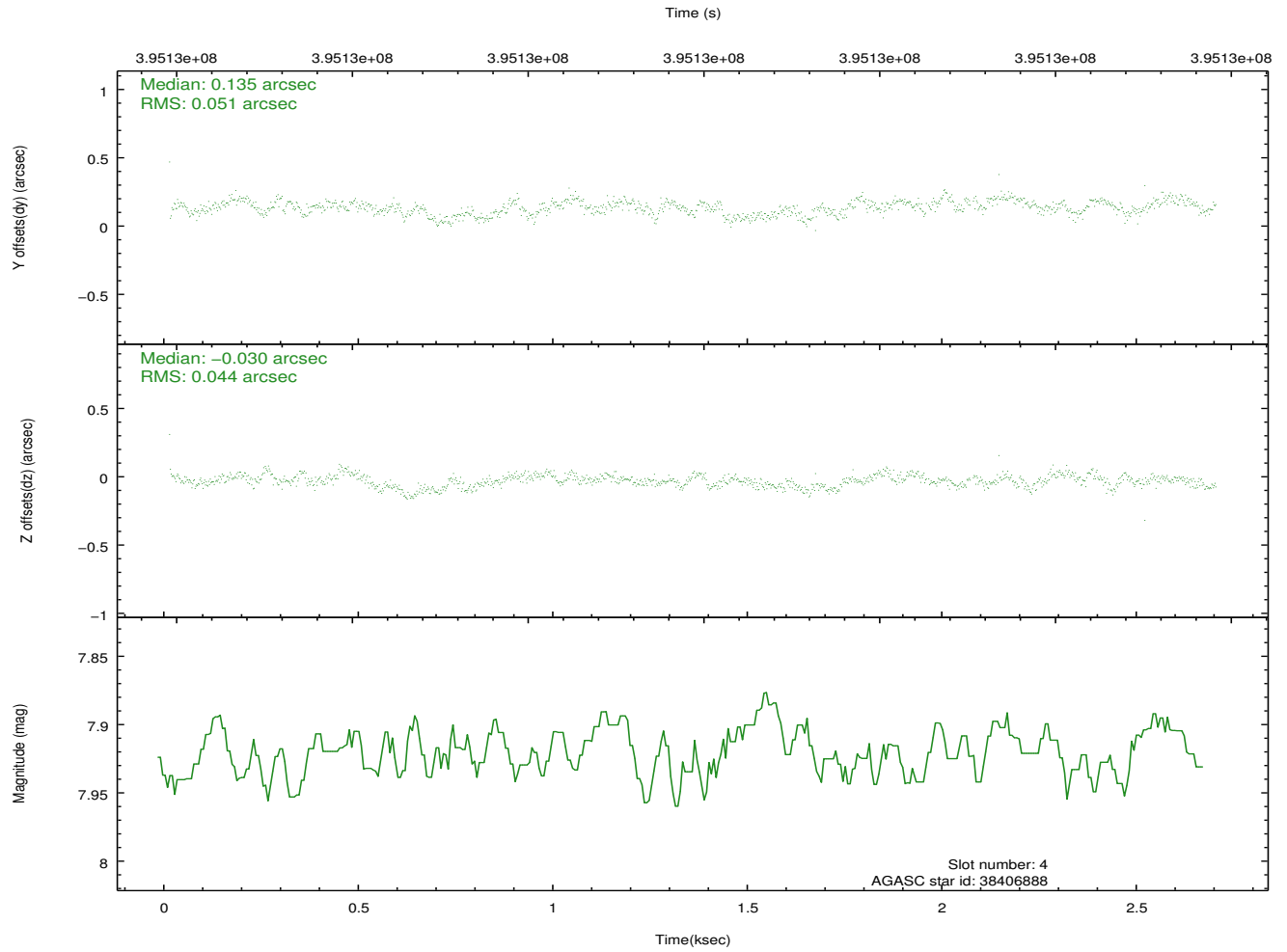
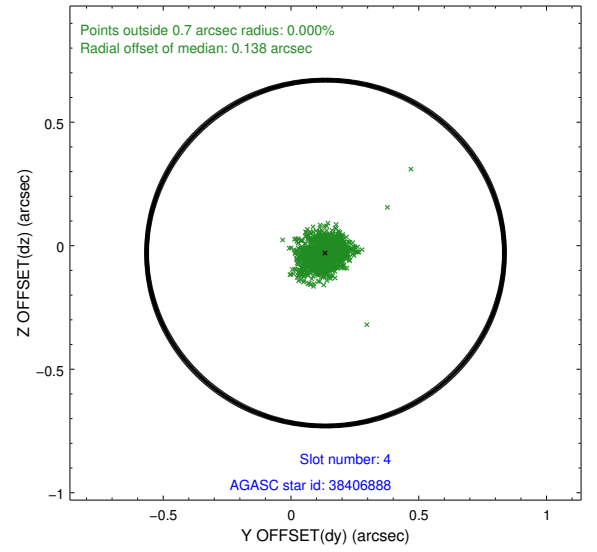
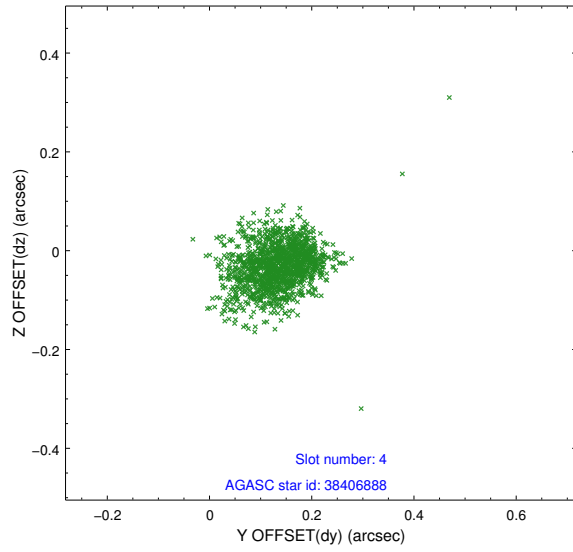
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	657	-0.056	-0.044	0.006	0.011	0.000000	0.000000	-770.04	-1739.44
1	FID	ACIS-S-4	6.97	657	0.164	0.039	0.006	0.010	0.000000	0.000000	2142.41	166.57
2	FID	ACIS-S-5	7.00	657	-0.139	0.014	0.006	0.011	0.000000	0.000000	-1819.86	163.03
3	GUIDE	38406384	9.06	1313	0.062	0.185	0.092	0.151	190.995348	3.932397	-428.82	1998.25
4	GUIDE	38406888	7.92	1307	0.135	-0.030	0.070	0.115	190.208023	3.869695	835.37	-540.28
5	GUIDE	38407992	9.28	1307	0.156	0.032	0.110	0.172	190.233921	4.255019	-486.22	-972.44
6	GUIDE	38408616	7.22	1313	-0.252	-0.214	0.071	0.111	190.567573	4.292608	-1059.62	87.96
7	GUIDE	38280568	9.73	1305	-0.102	0.039	0.167	0.278	189.792364	4.231573	181.06	-2411.12

2.4 Star Slots

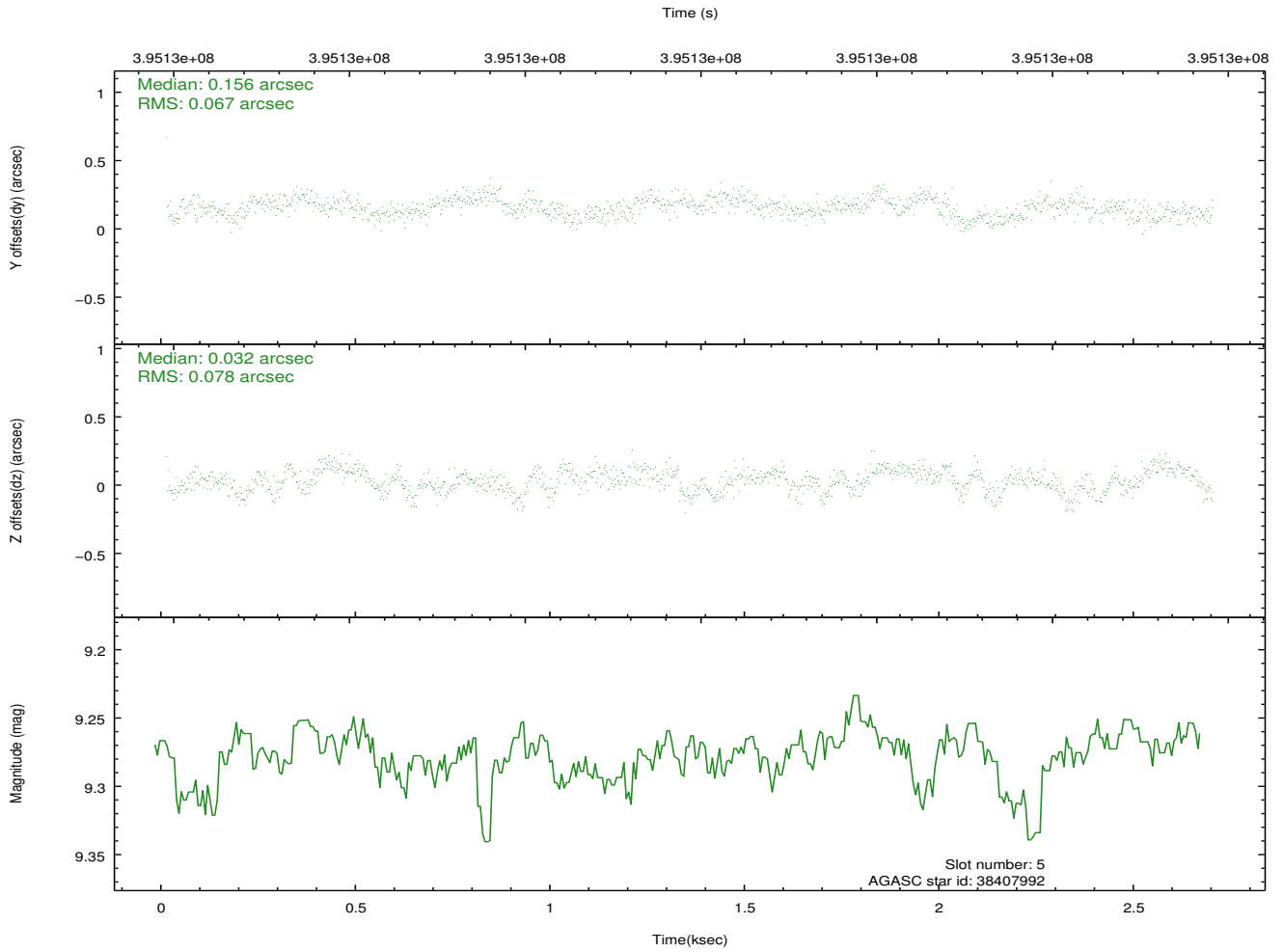
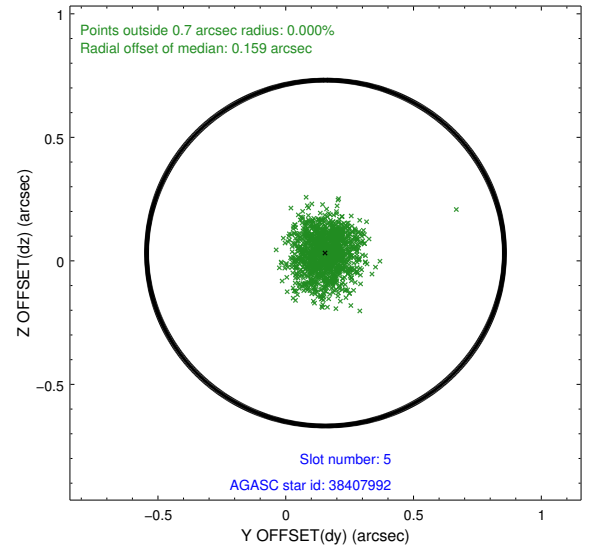
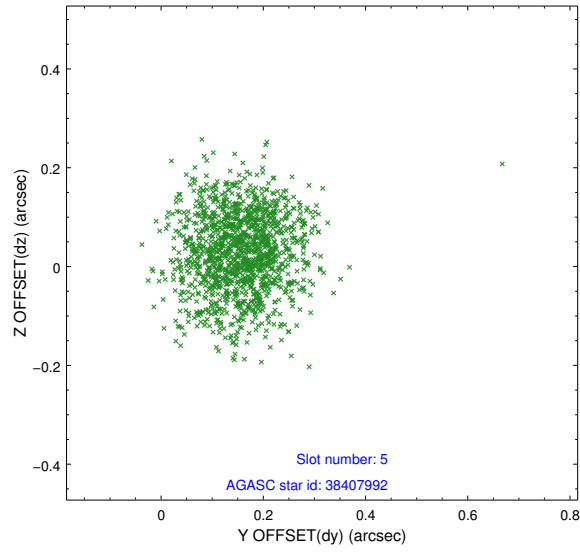
2.4.1 Slot 3



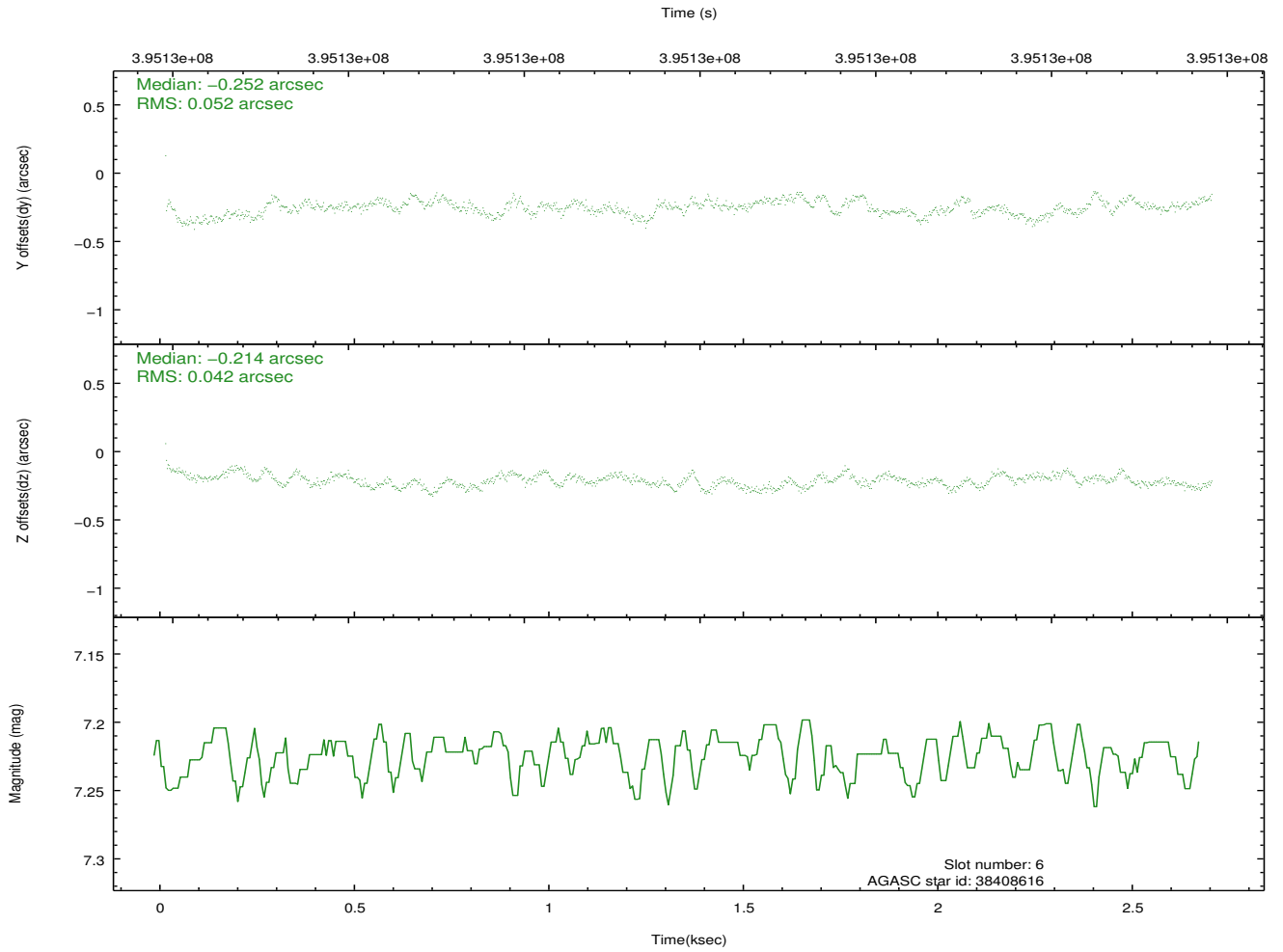
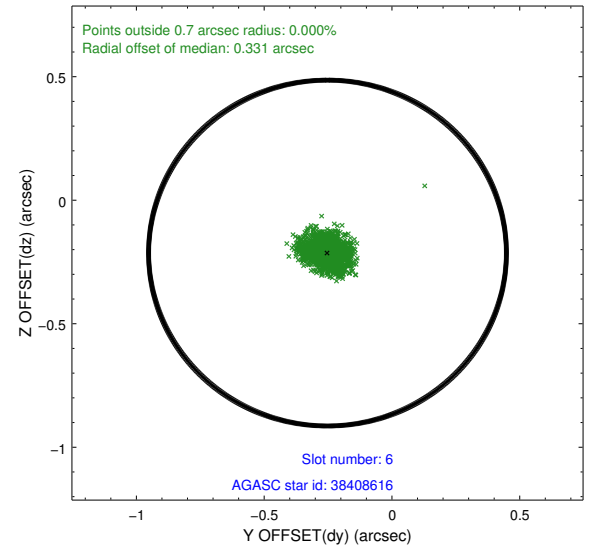
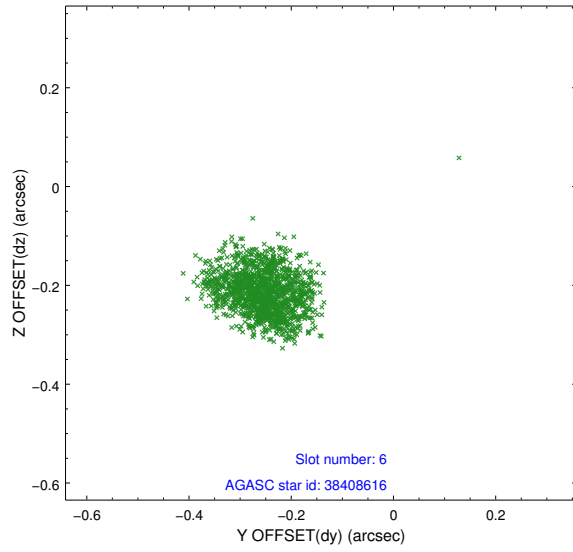
2.4.2 Slot 4



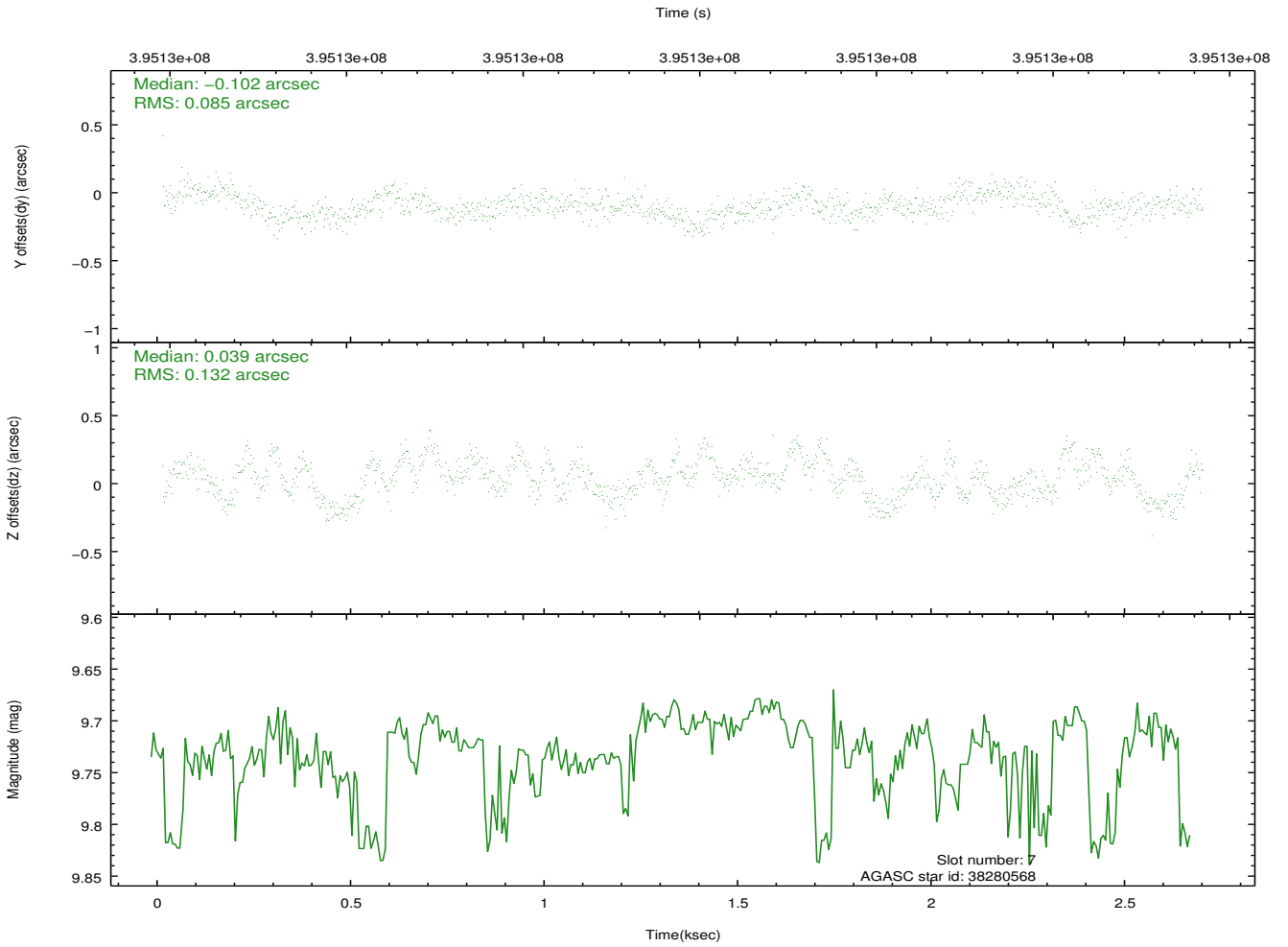
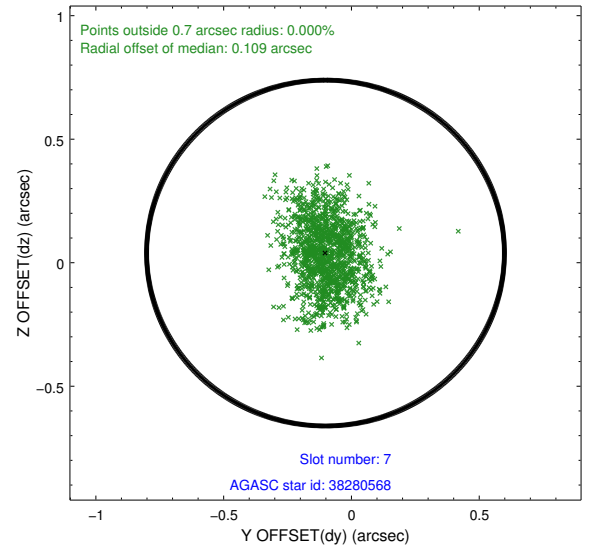
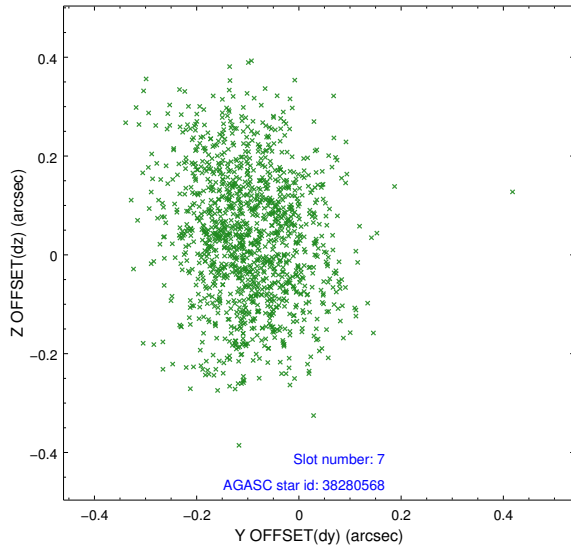
2.4.3 Slot 5



2.4.4 Slot 6

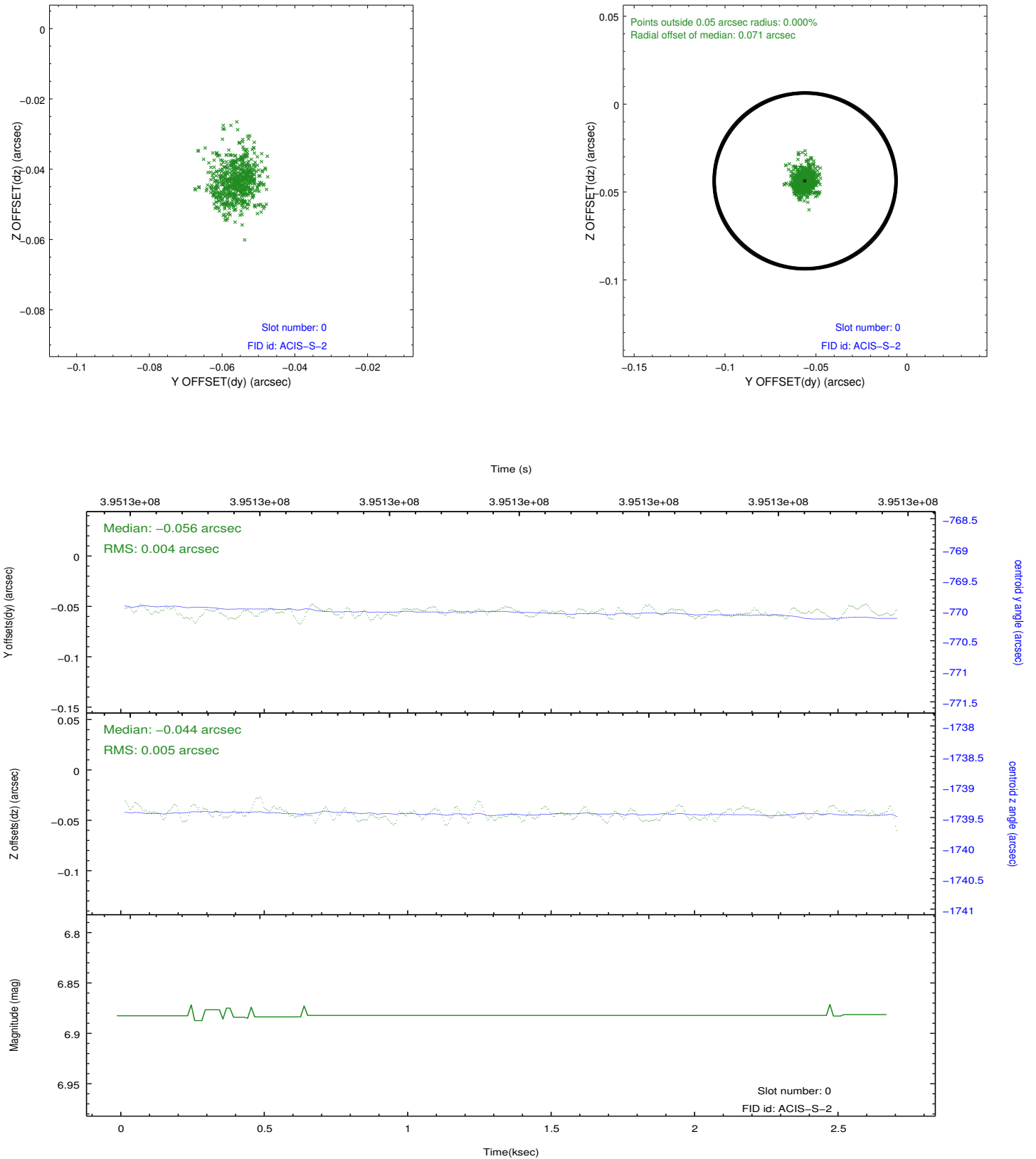


2.4.5 Slot 7

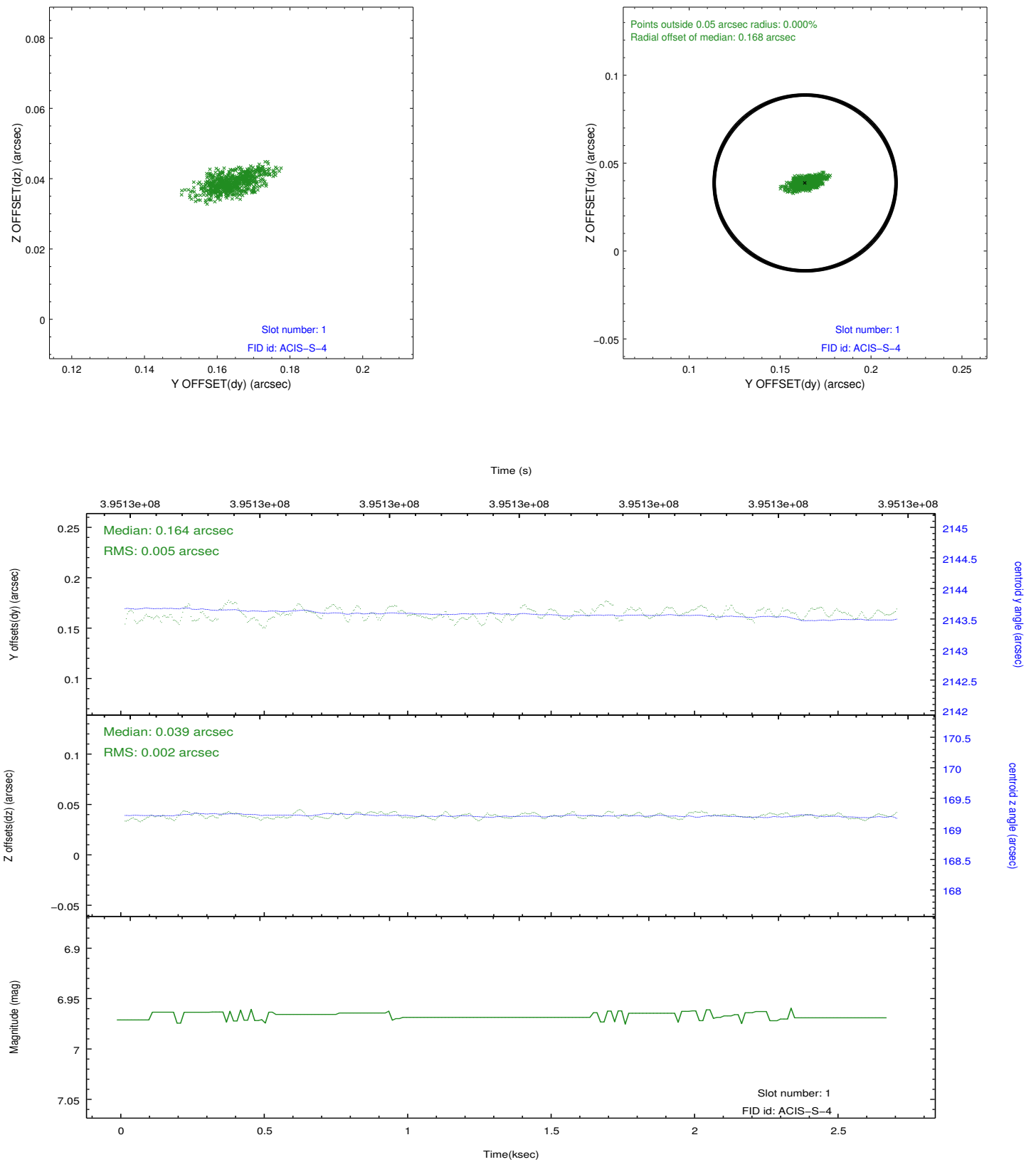


2.5 FID Slots

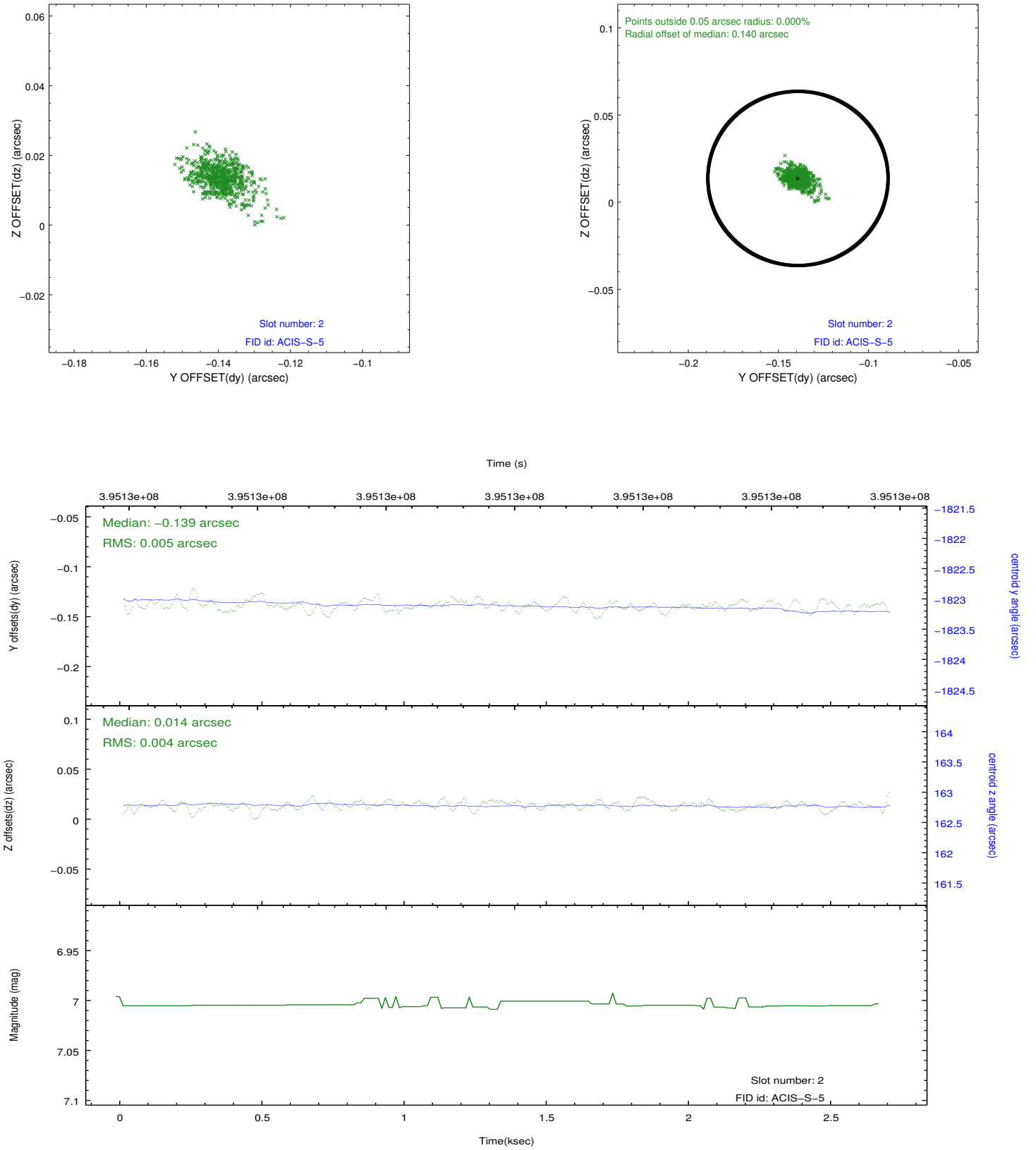
2.5.1 Slot 0



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)	2012.07.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.5439999905825

A.2 Comments