

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10231 - L2 Version 2
Chandra X-Ray Center

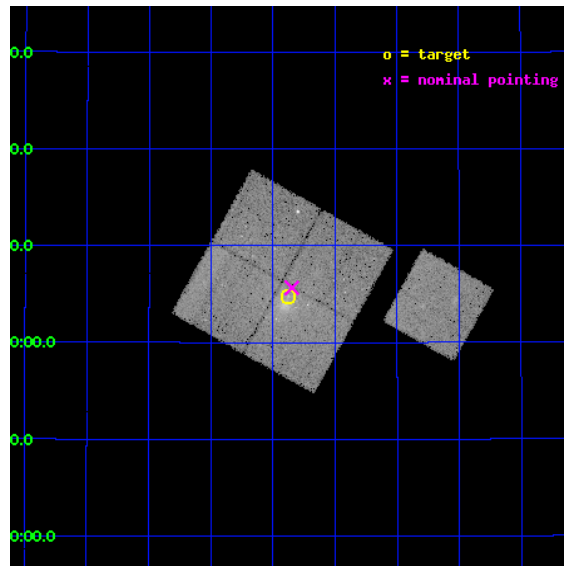
L2 Processing Date : Jun 10 2012

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1 Front

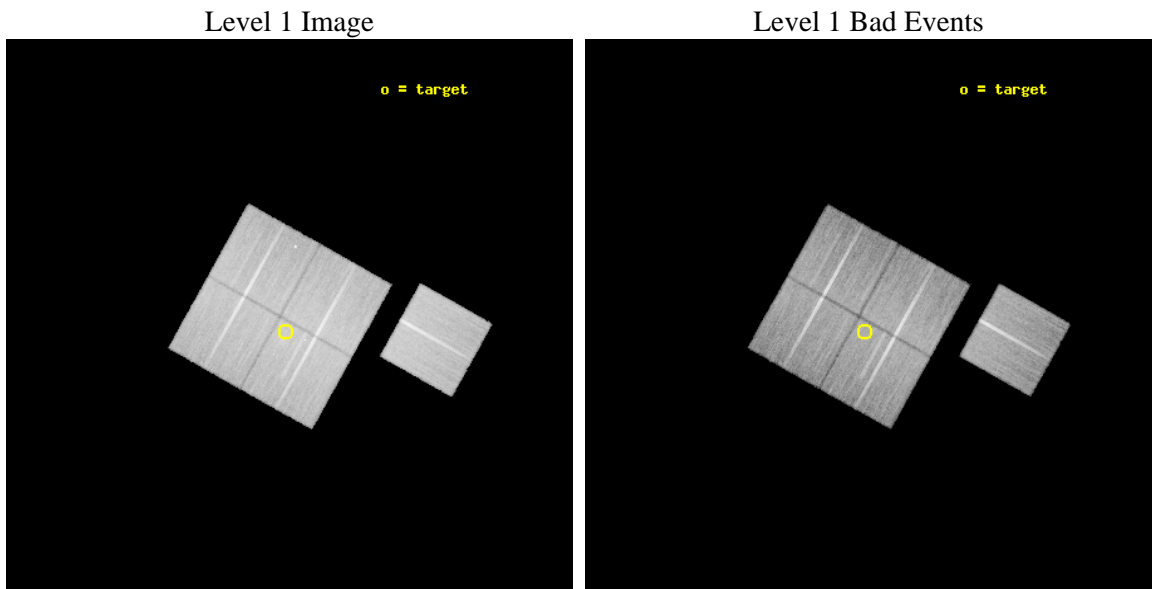
seq_num	701774	Sequence number
obs_id	10231	Observation id
title	Mothering and smothering: AGN in merging galaxies	Proposal title
observer	Prof Diana Worrall	Principal investigator
object	NGC 70	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	4.594167	Observer's specified target RA [deg]
dec_targ	30.079333	Observer's specified target Dec [deg]
ra_nom	4.5869351658532	Nominal RA [deg]
dec_nom	30.094197505552	Nominal Dec [deg]
roll_nom	119.24228721181	Nominal Roll [deg]
revision	2	Processing version of data
ontime	28109.578084409	Sum of GTIs [s]
livetime	27742.305752766	Livetime [s]
ontime0	28112.595964611	Sum of GTIs [s]
ontime1	28109.496004343	Sum of GTIs [s]
ontime2	28103.255103767	Sum of GTIs [s]
ontime3	28109.578084409	Sum of GTIs [s]
ontime6	28106.272993922	Sum of GTIs [s]
l2events	117448	Number of level 2 events



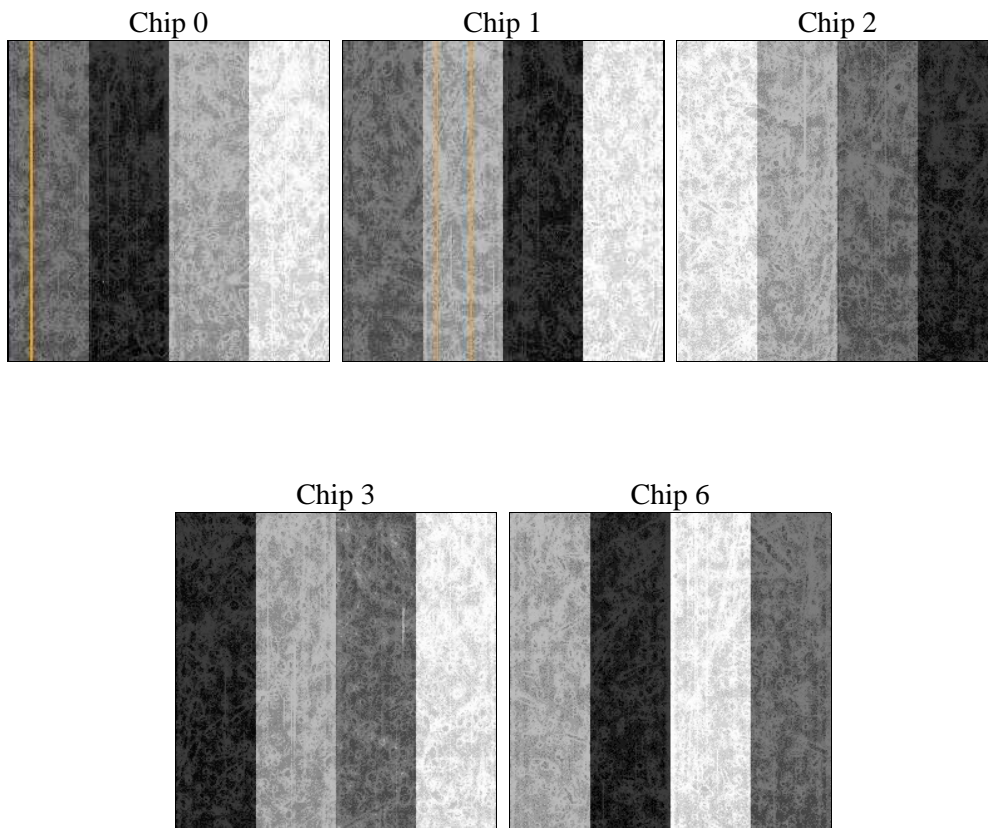
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	28000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	28109.578084409	Sum of GTIs [s]
caldbver	4.4.10	 	ontime0	28112.595964611	Sum of GTIs [s]
date	2012-06-10T12:12:38	Date and time of file creation	ontime1	28109.496004343	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	28103.255103767	Sum of GTIs [s]
			ontime3	28109.578084409	Sum of GTIs [s]
			ontime6	28106.272993922	Sum of GTIs [s]
			l1events	1226099	Number of level 1 events

2.1.4 Events

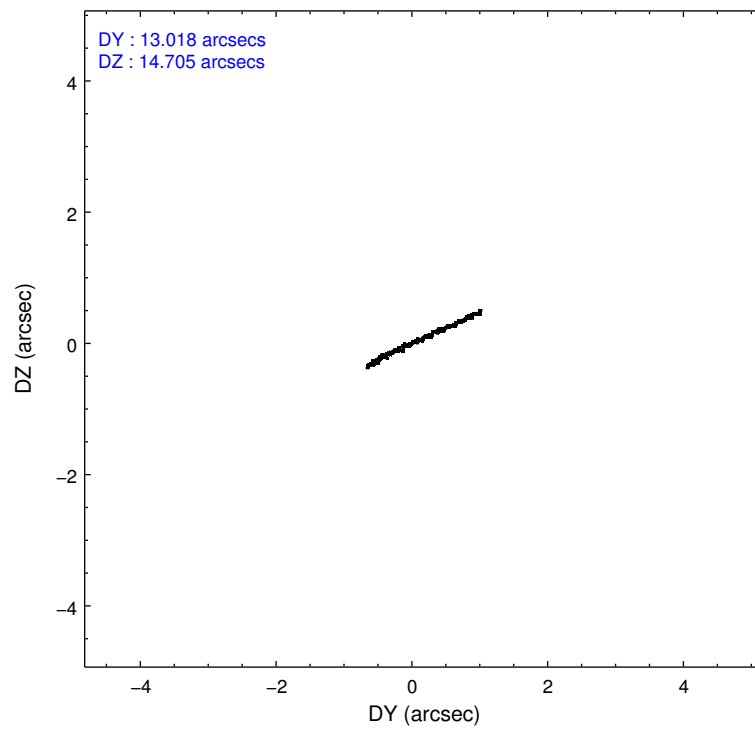
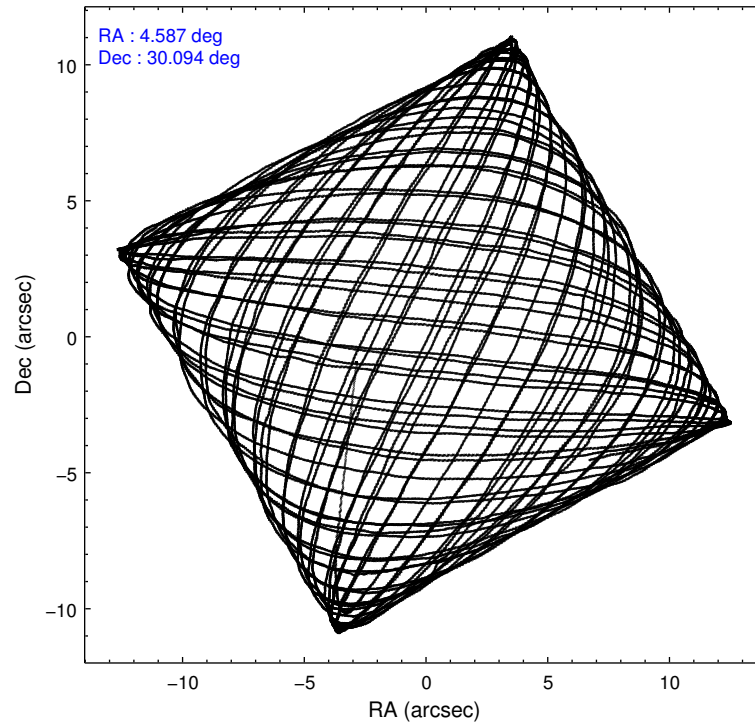
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	231264	233805	256646	250271	254113
rejected events	204406	204056	230332	219678	227556
rejected %	88%	87%	89%	87%	89%

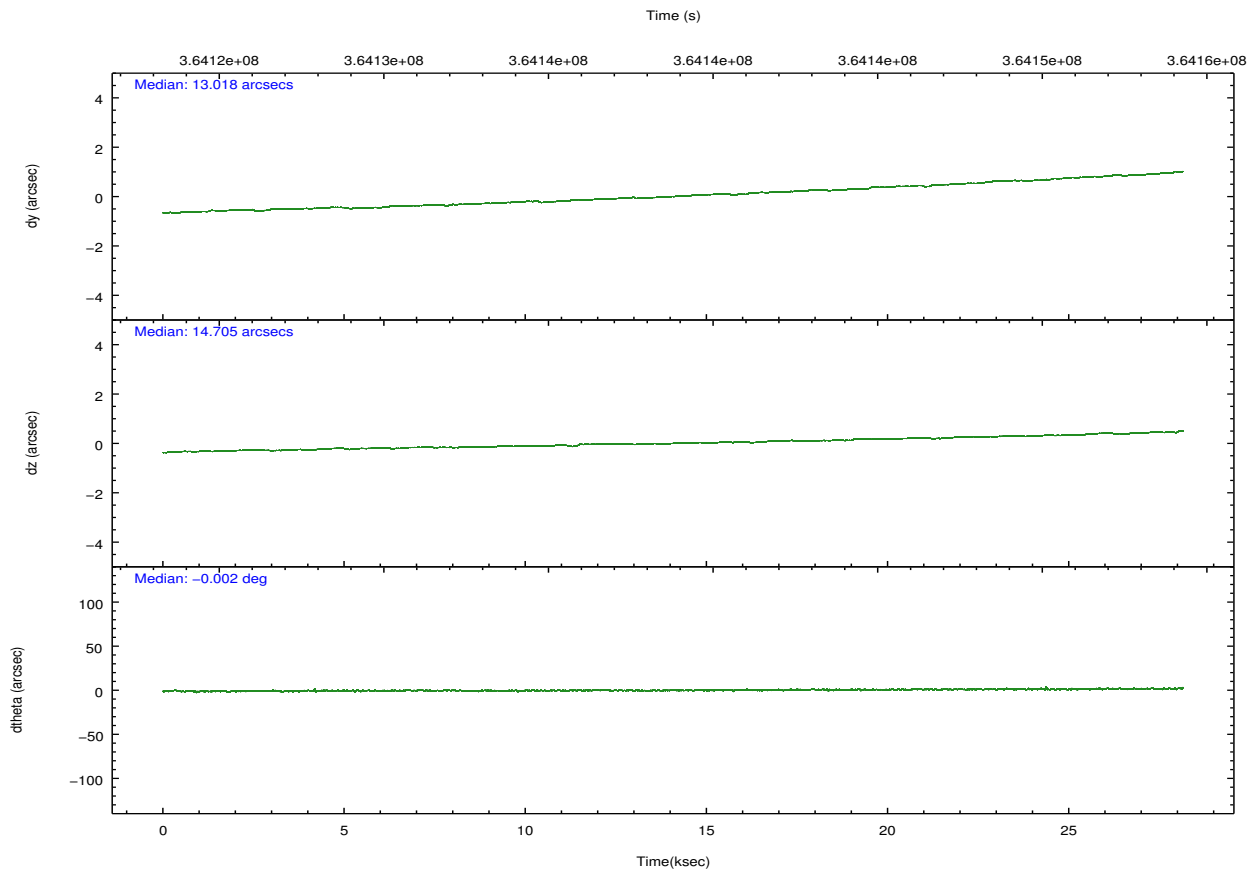
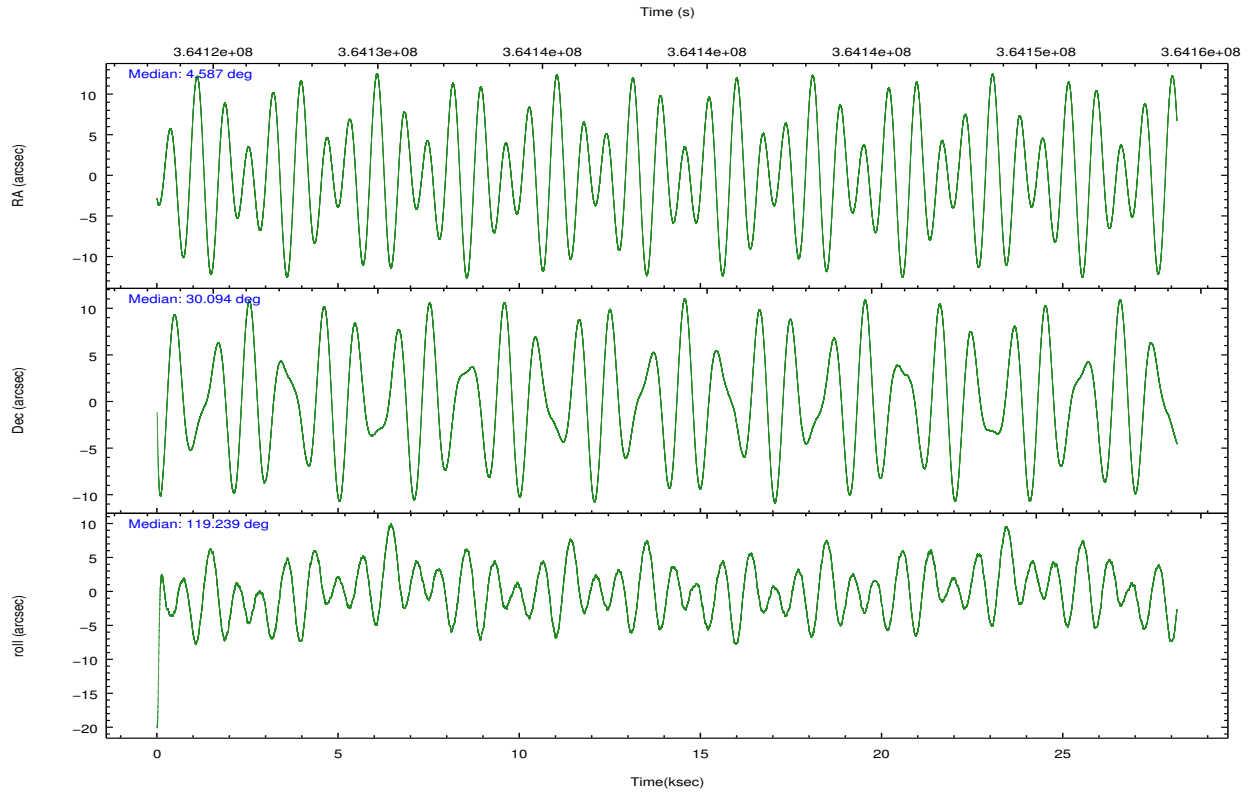
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9985	11450	10245	13865	9679
	4%	4%	3%	5%	3%
grade 1 events	161	146	168	193	141
	0%	0%	0%	0%	0%
grade 2 events	6490	6583	6250	5963	5894
	2%	2%	2%	2%	2%
grade 3 events	2761	2999	2593	2870	2737
	1%	1%	1%	1%	1%
grade 4 events	2656	3011	2639	2845	2792
	1%	1%	1%	1%	1%
grade 5 events	9021	9918	8518	10499	10018
	3%	4%	3%	4%	3%
grade 6 events	4975	5713	4593	5053	5457
	2%	2%	1%	2%	2%
grade 7 events	195215	193985	221640	208983	217395
	84%	82%	86%	83%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	4.614296	4.586935165853177	CCD I2 on	Y	Y
[deg] Pointing Dec	30.080235	30.0941975055518	CCD I3 on	Y	Y
[deg] Pointing Roll	119.019899	119.2422872118114	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-232.129963	-232.1190743247176	CCD S3 on	N	N
[mm] SIM translation stage offset	-1.4625	-1.473378678212043	CCD S4 on	N	N
[s] Observation start time (MET)	364124857.184000	364123890.77923	CCD S5 on	N	N
Observation start date	2009-07-16T09:46:31	2009-07-16T09:31:30	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	364152857.184000	364153893.04323	On-chip summing requested	N	N
Observation end date	2009-07-16T17:33:11	2009-07-16T17:51:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



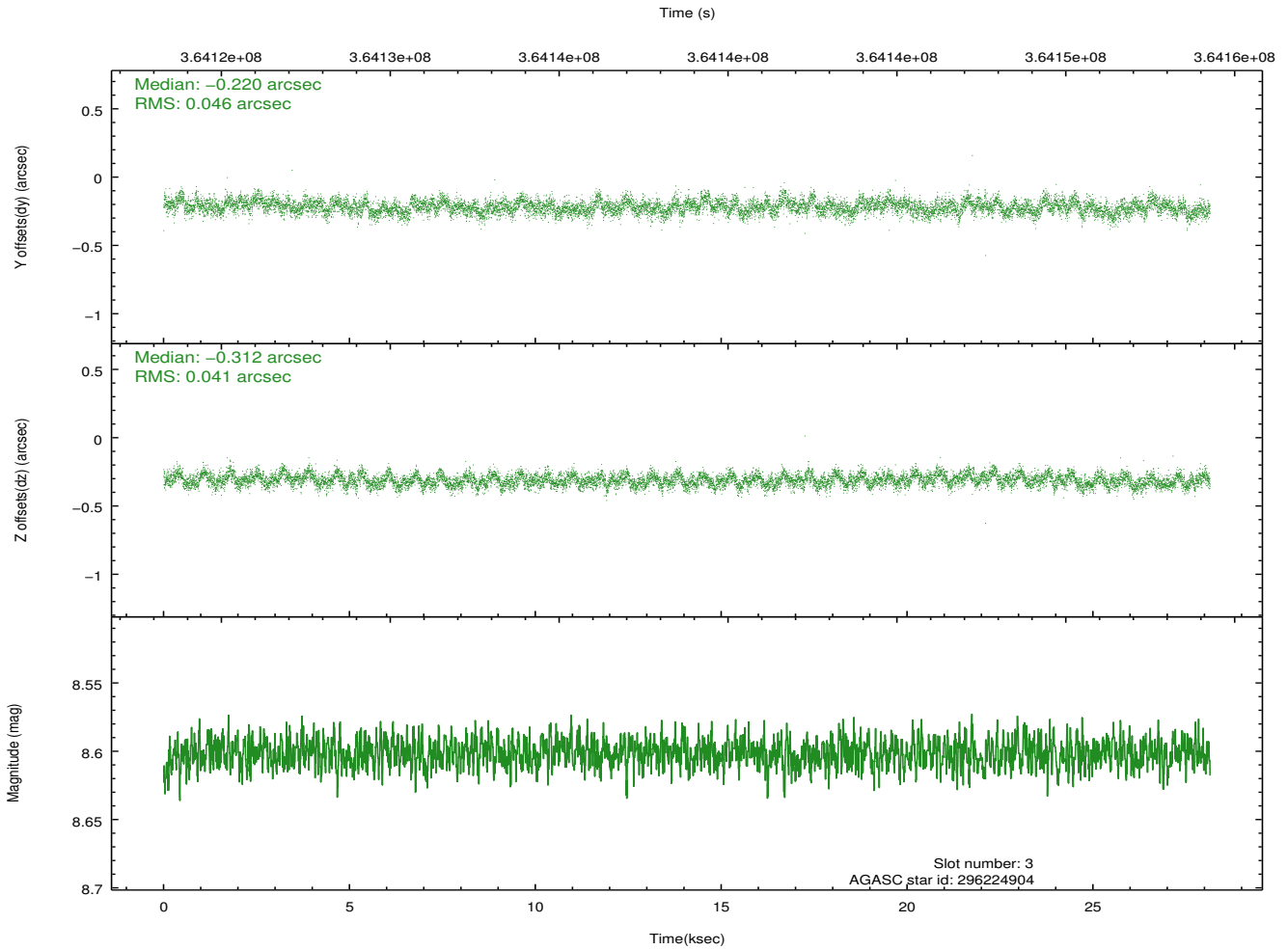
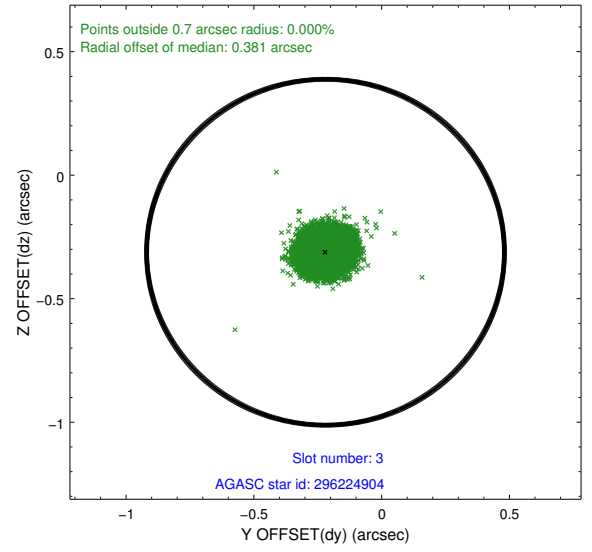
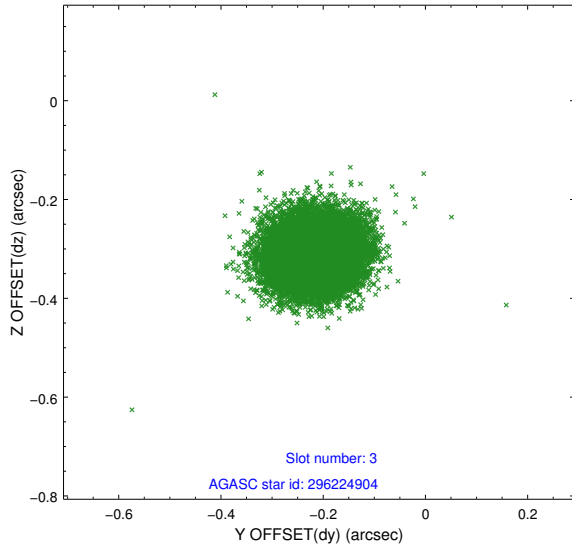


Slot Statistics

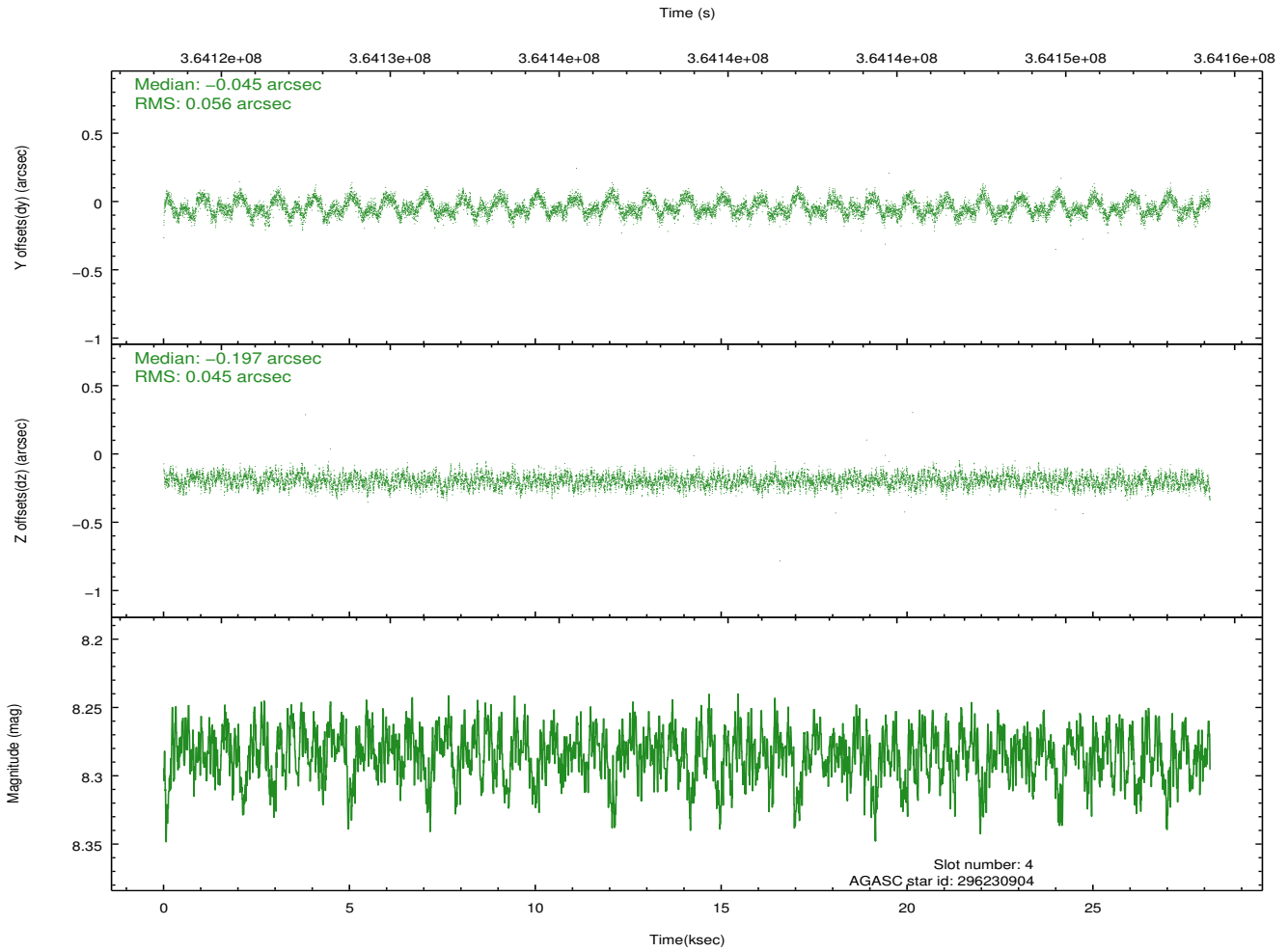
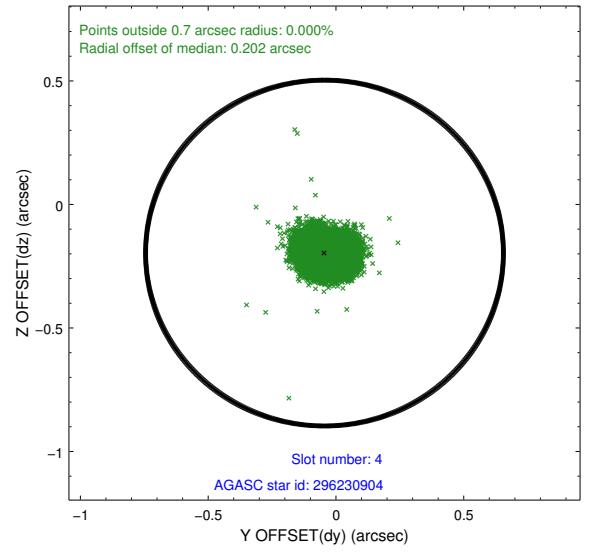
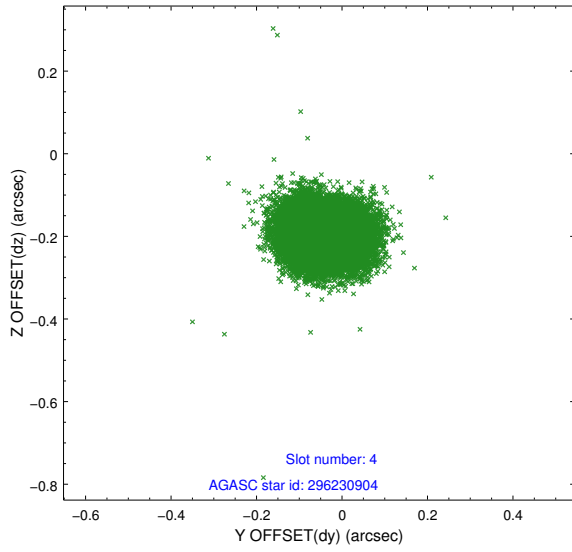
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.04	6865	0.041	0.000	0.022	0.034	0.000000	0.000000	926.45	-868.48
1	FID	ACIS-I-5	7.02	6864	-0.228	0.044	0.026	0.037	0.000000	0.000000	-1821.88	1028.99
2	FID	ACIS-I-6	7.03	6865	0.096	0.027	0.013	0.020	0.000000	0.000000	391.95	1673.59
3	GUIDE	296224904	8.60	13724	-0.220	-0.312	0.066	0.106	4.048254	30.532592	2279.00	741.06
4	GUIDE	296230904	8.28	13718	-0.045	-0.197	0.077	0.118	4.432088	30.144096	477.00	384.28
5	GUIDE	296354080	9.18	13717	0.196	0.157	0.096	0.155	5.234093	30.046745	-1037.57	-1632.17
6	GUIDE	296355768	8.62	13721	0.172	0.179	0.074	0.119	5.046376	30.281174	-16.20	-1526.47
7	GUIDE	296366008	9.32	13708	-0.102	0.170	0.119	0.186	4.565150	30.612631	1750.29	-796.25

2.4 Star Slots

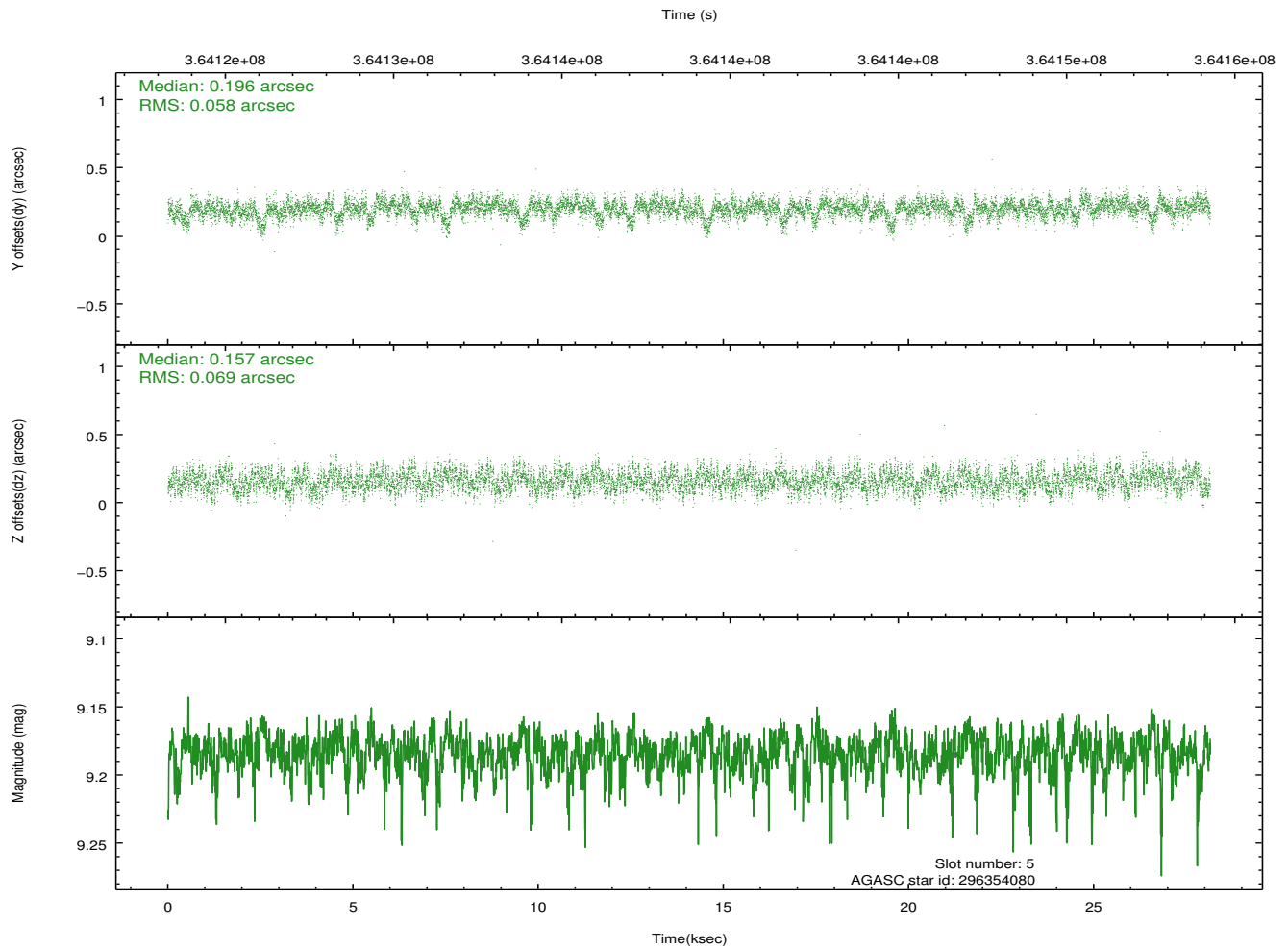
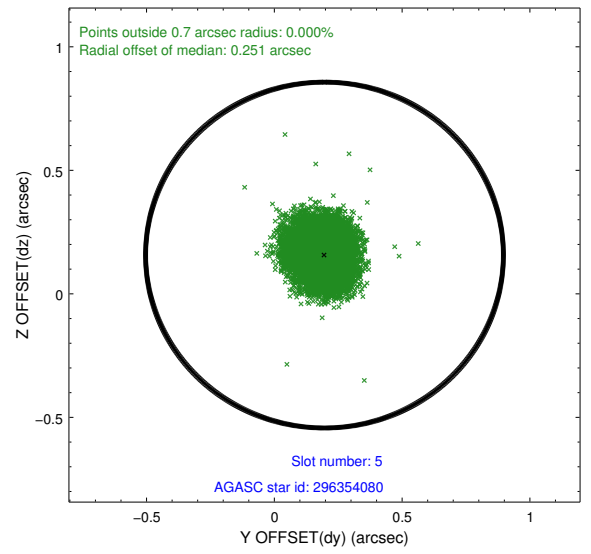
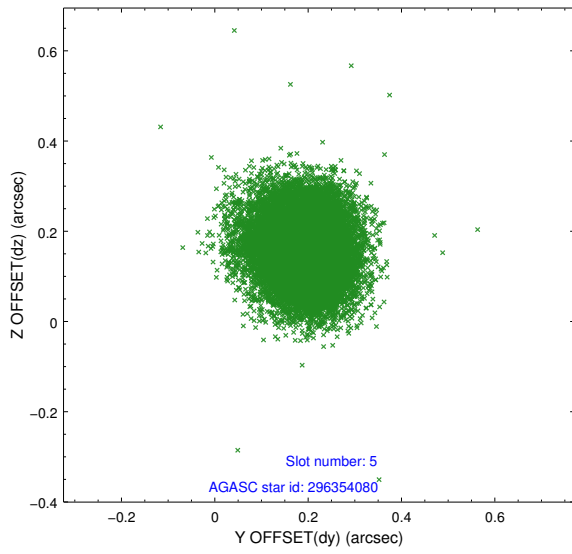
2.4.1 Slot 3



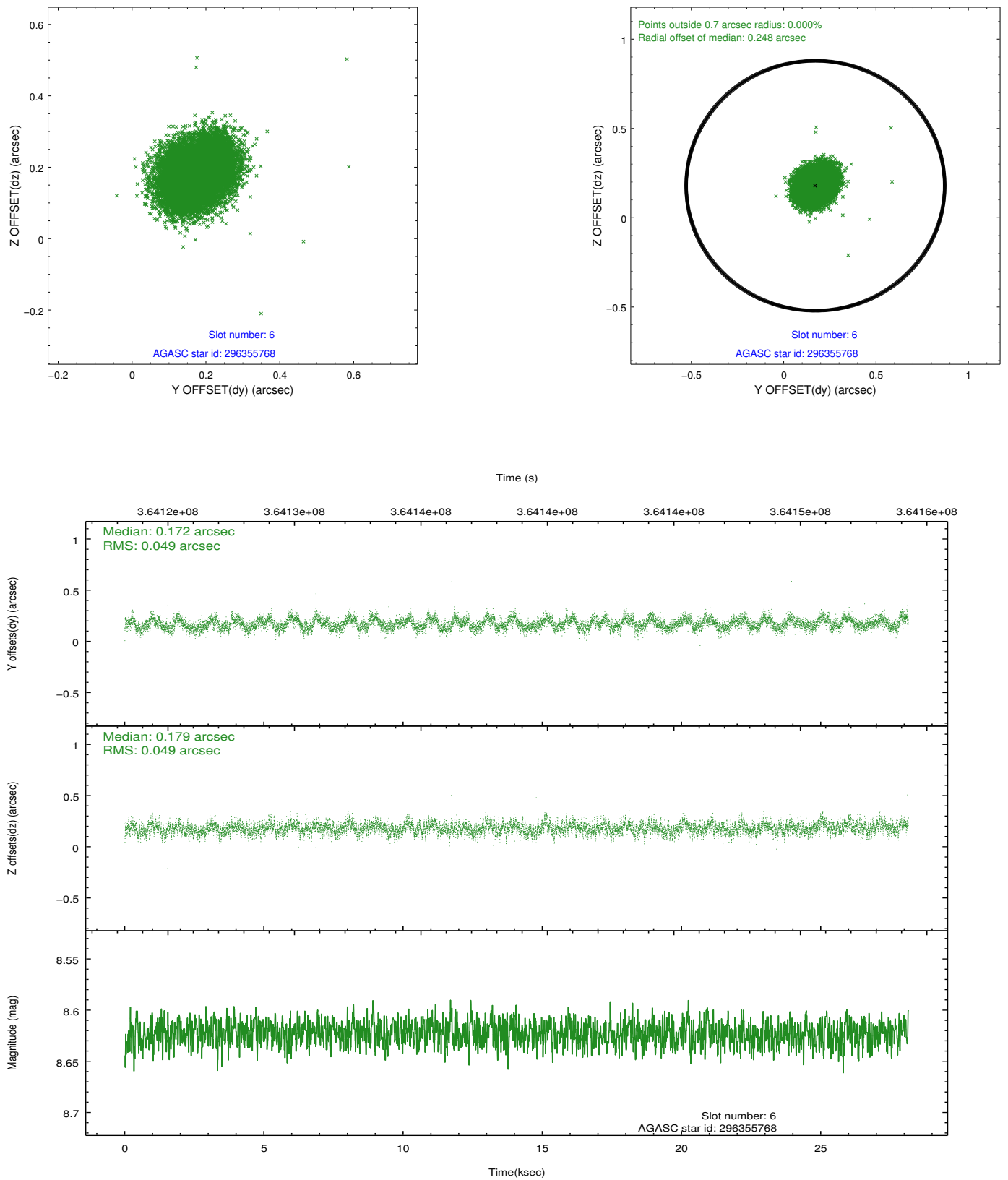
2.4.2 Slot 4



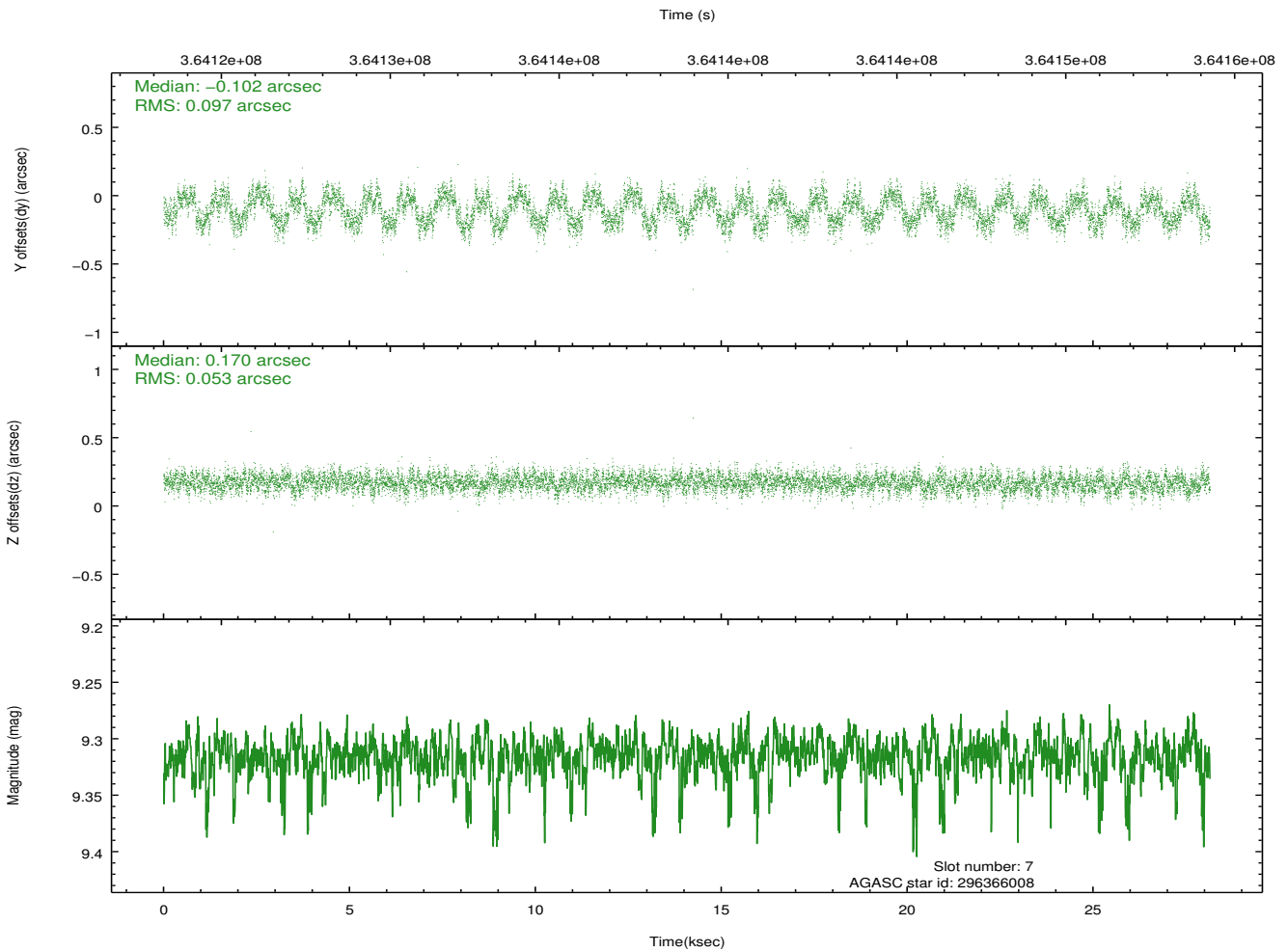
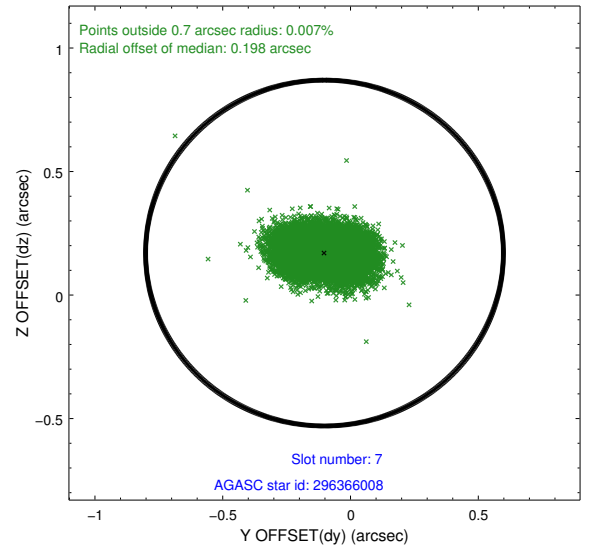
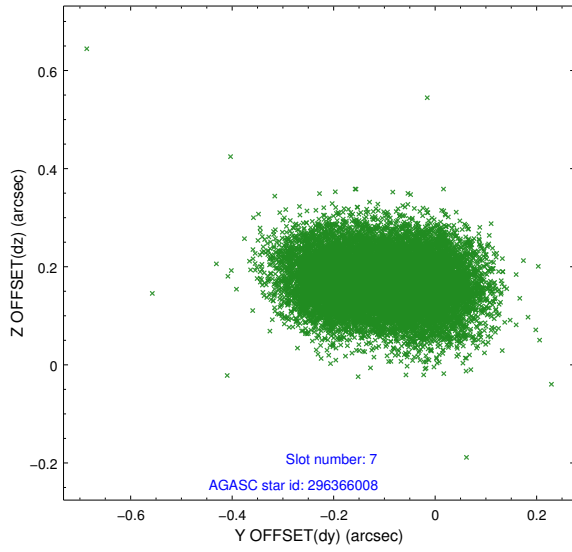
2.4.3 Slot 5



2.4.4 Slot 6

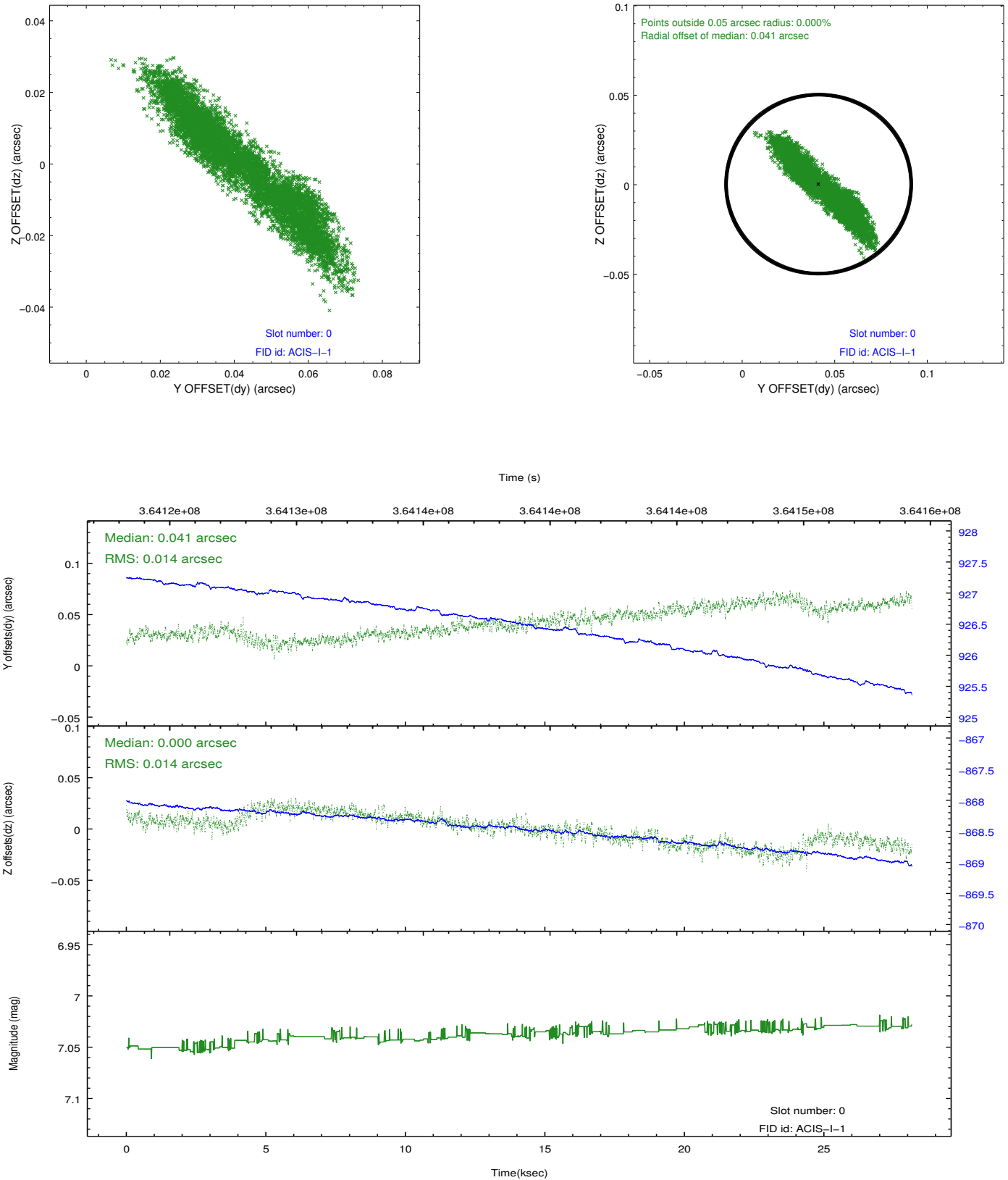


2.4.5 Slot 7

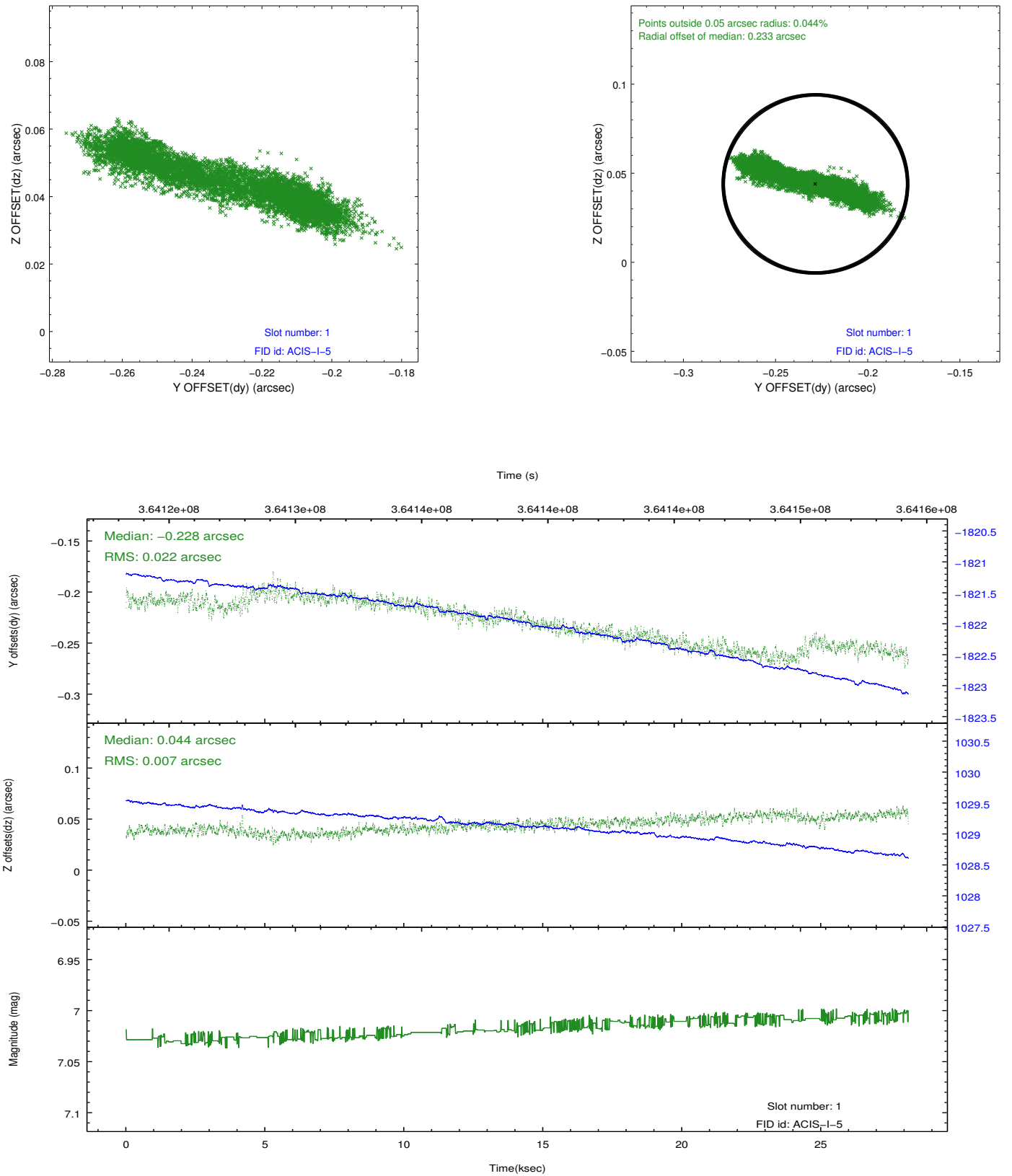


2.5 FID Slots

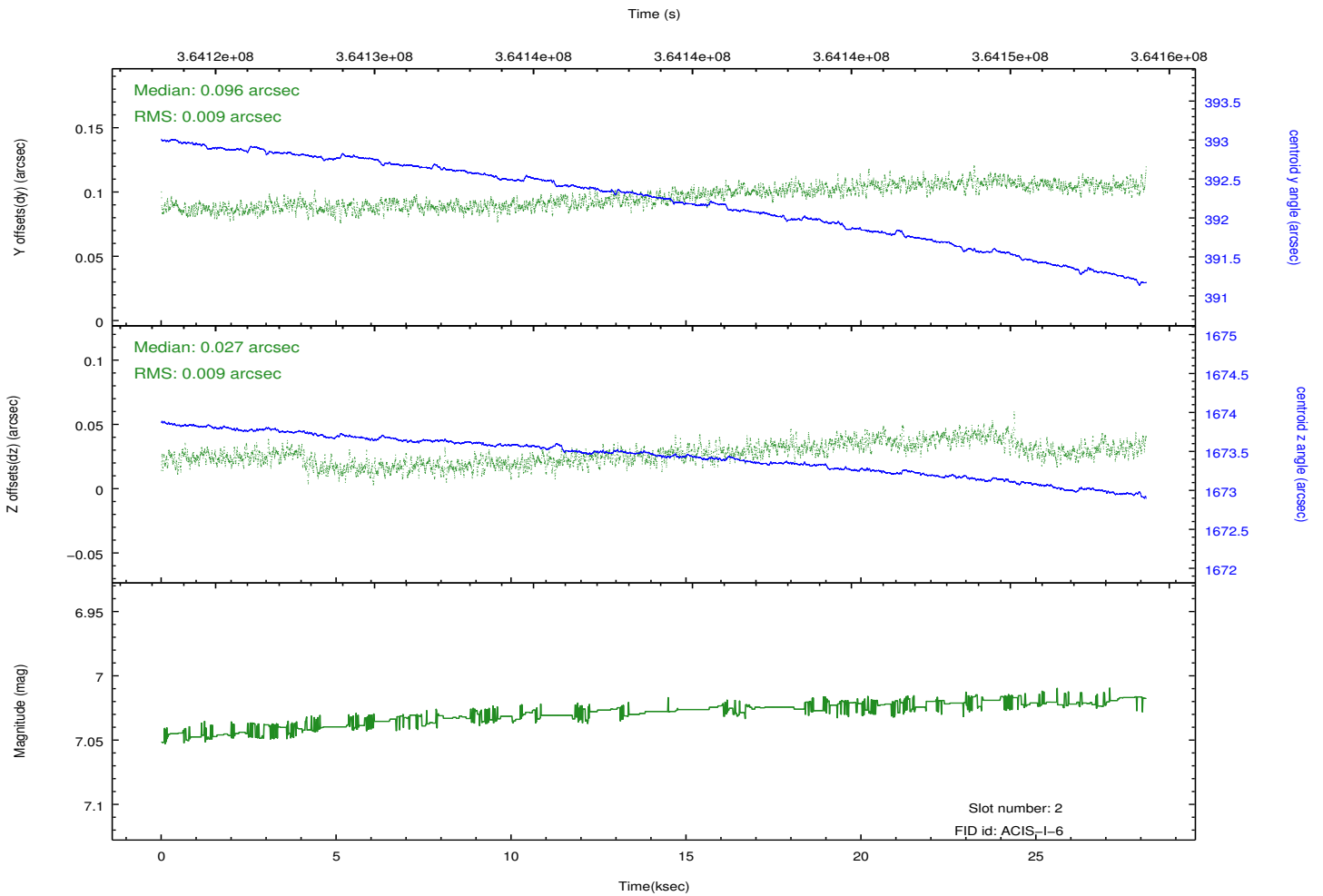
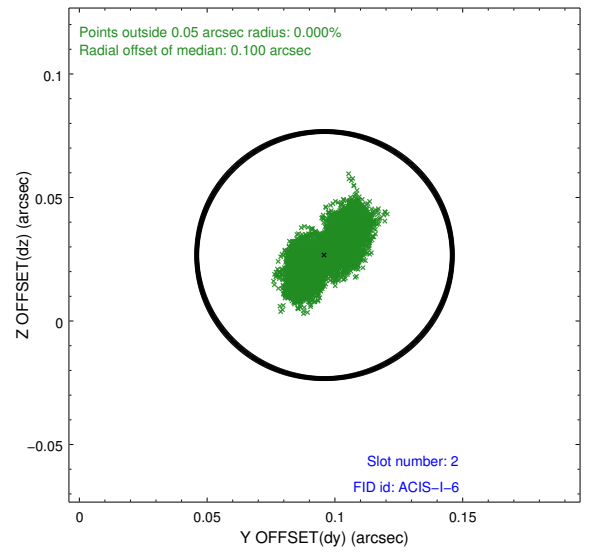
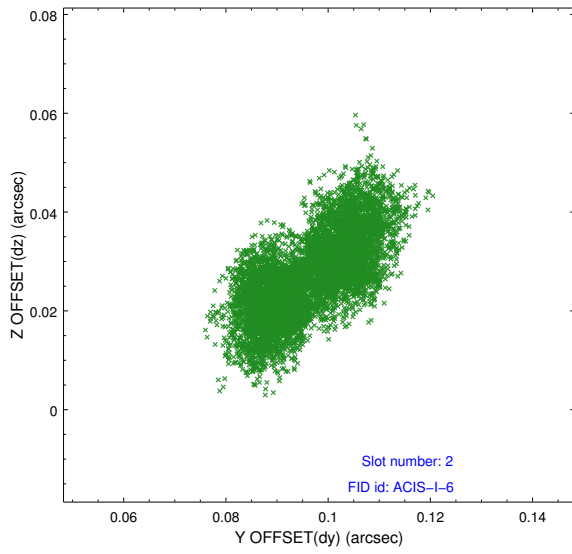
2.5.1 Slot 0



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)	2012.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.109578077197

A.2 Comments

Joint Proposal: NRAO