

V&V Reference Report

L2 ASCDS Version : 10.3

Observation 17474 - L2 Version 1
Chandra X-Ray Center

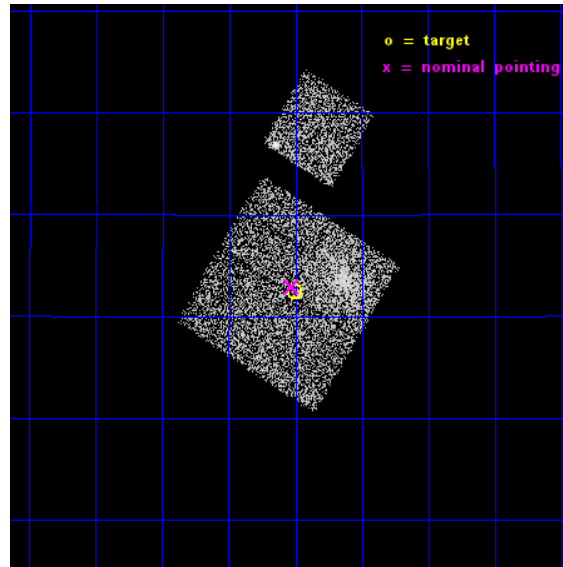
L2 Processing Date : Dec 3 2014

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1 Front

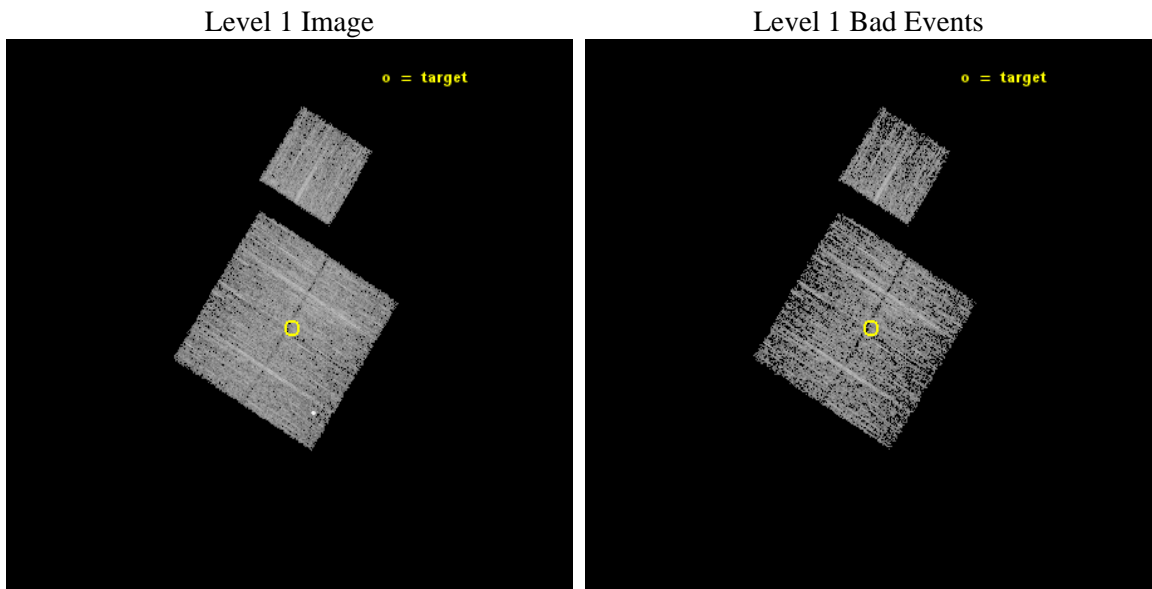
seq_num	801533	Sequence number
obs_id	17474	Observation id
title	The most massive MaxBCG clusters	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	Abell 1986	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	223.375417	Observer's specified target RA [deg]
dec_targ	21.874333	Observer's specified target Dec [deg]
ra_nom	223.38219464663	Nominal RA [deg]
dec_nom	21.882107938182	Nominal Dec [deg]
roll_nom	31.851427337874	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5083.143682003	Sum of GTIs [s]
livetime	5016.7286676417	Livetime [s]
ontime0	5083.0205619931	Sum of GTIs [s]
ontime1	5083.0616019964	Sum of GTIs [s]
ontime2	5083.1026419997	Sum of GTIs [s]
ontime3	5083.143682003	Sum of GTIs [s]
ontime6	5082.9795219898	Sum of GTIs [s]
l2events	14418	Number of level 2 events



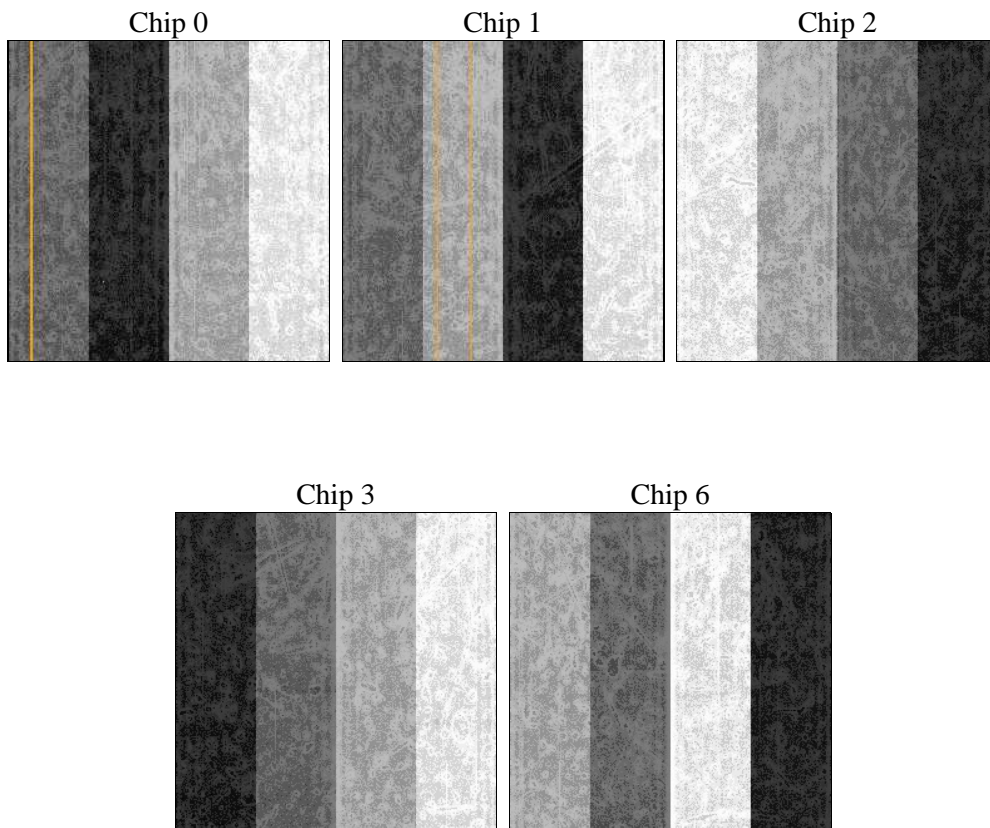
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5083.143682003	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	5083.0205619931	Sum of GTIs [s]
date	2014-12-03T20:53:44	Date and time of file creation	ontime1	5083.0616019964	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5083.1026419997	Sum of GTIs [s]
			ontime3	5083.143682003	Sum of GTIs [s]
			ontime6	5082.9795219898	Sum of GTIs [s]
			l1events	123041	Number of level 1 events

2.1.4 Events

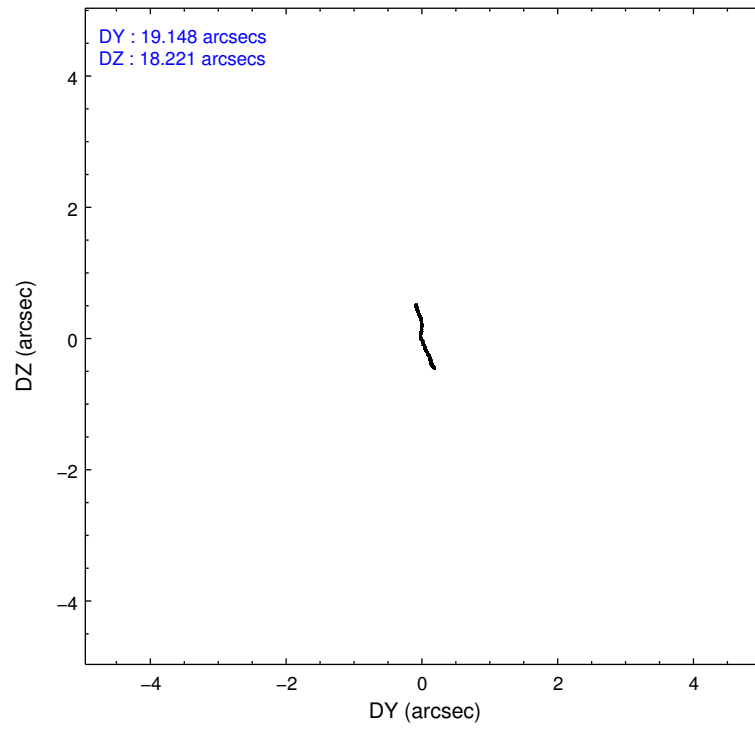
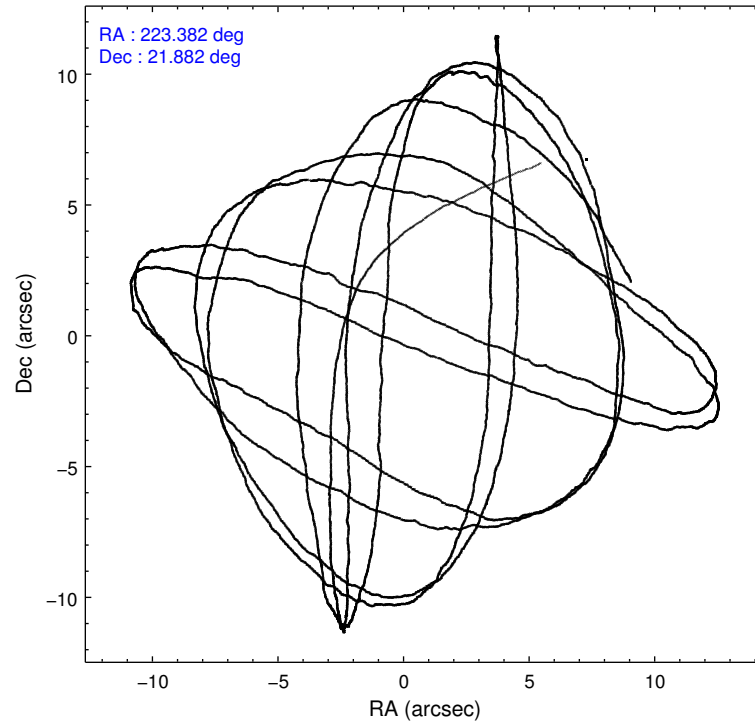
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	22690	23966	25347	26629	24409
rejected events	19694	19133	22348	22290	21320
rejected %	86%	79%	88%	83%	87%

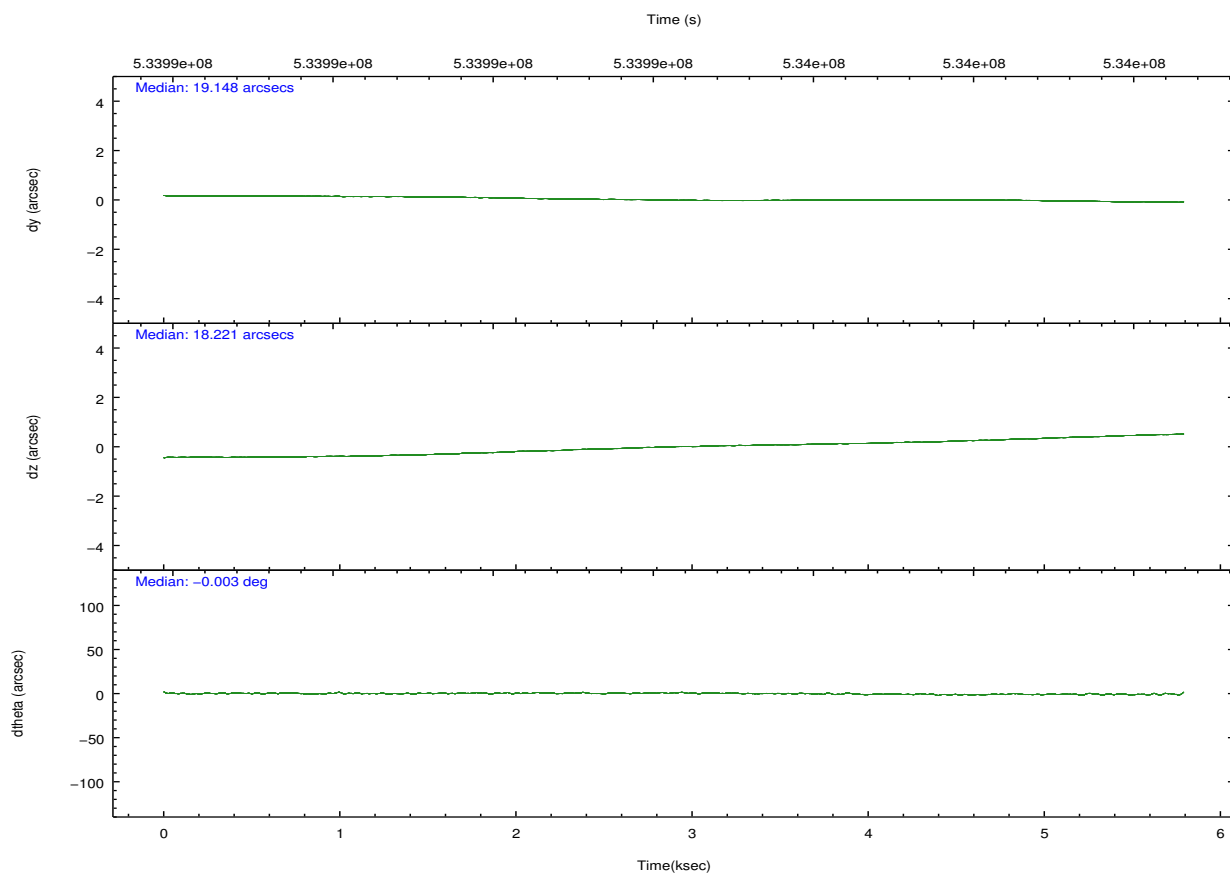
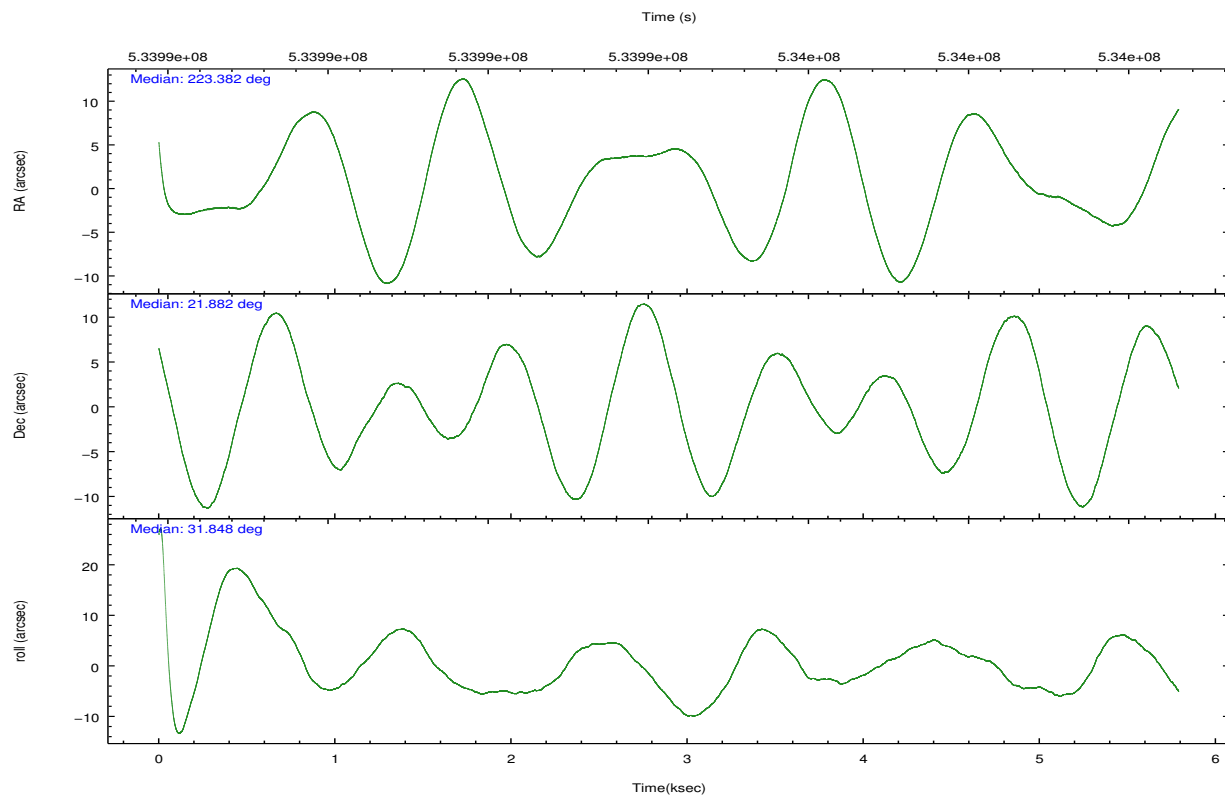
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1017	2774	1163	2210	1139
	4%	11%	4%	8%	4%
grade 1 events	12	20	12	22	16
	0%	0%	0%	0%	0%
grade 2 events	761	747	677	773	665
	3%	3%	2%	2%	2%
grade 3 events	326	324	279	357	313
	1%	1%	1%	1%	1%
grade 4 events	285	288	317	353	306
	1%	1%	1%	1%	1%
grade 5 events	1152	1257	1117	1339	1284
	5%	5%	4%	5%	5%
grade 6 events	608	706	567	650	667
	2%	2%	2%	2%	2%
grade 7 events	18529	17850	21215	20925	20019
	81%	74%	83%	78%	82%

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	223.368294	223.3821946466335	CCD I2 on	Y	Y
[deg] Pointing Dec	21.857733	21.88210793818219	CCD I3 on	Y	Y
[deg] Pointing Roll	31.647810	31.85142733787449	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	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	533992023.184000	533990078.73941	CCD S5 on	N	N
Observation start date	2014-12-03T11:05:56	2014-12-03T10:34:38	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	533997023.184000	533997482.31482	On-chip summing requested	N	N
Observation end date	2014-12-03T12:29:16	2014-12-03T12:38:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



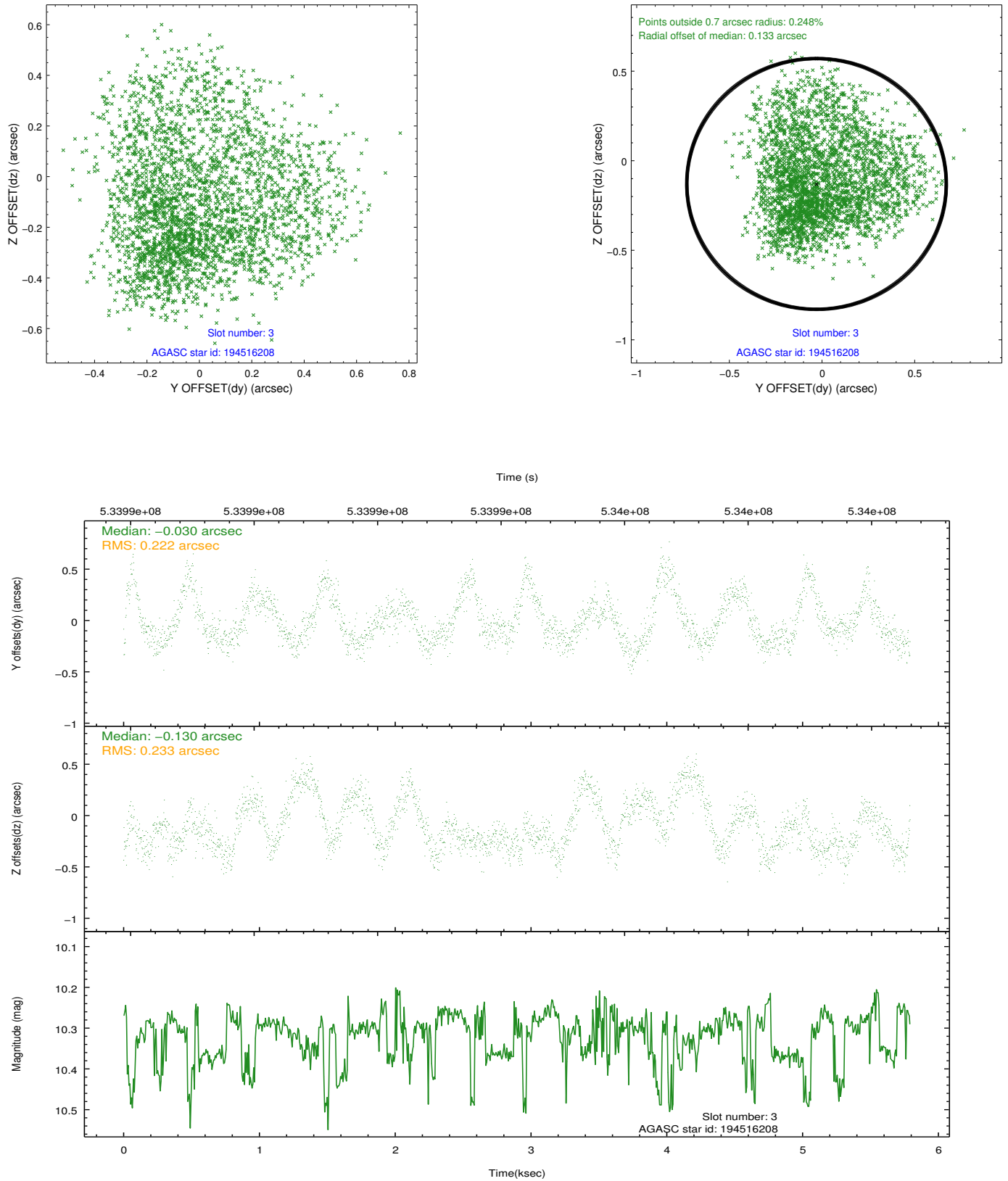


Slot Statistics

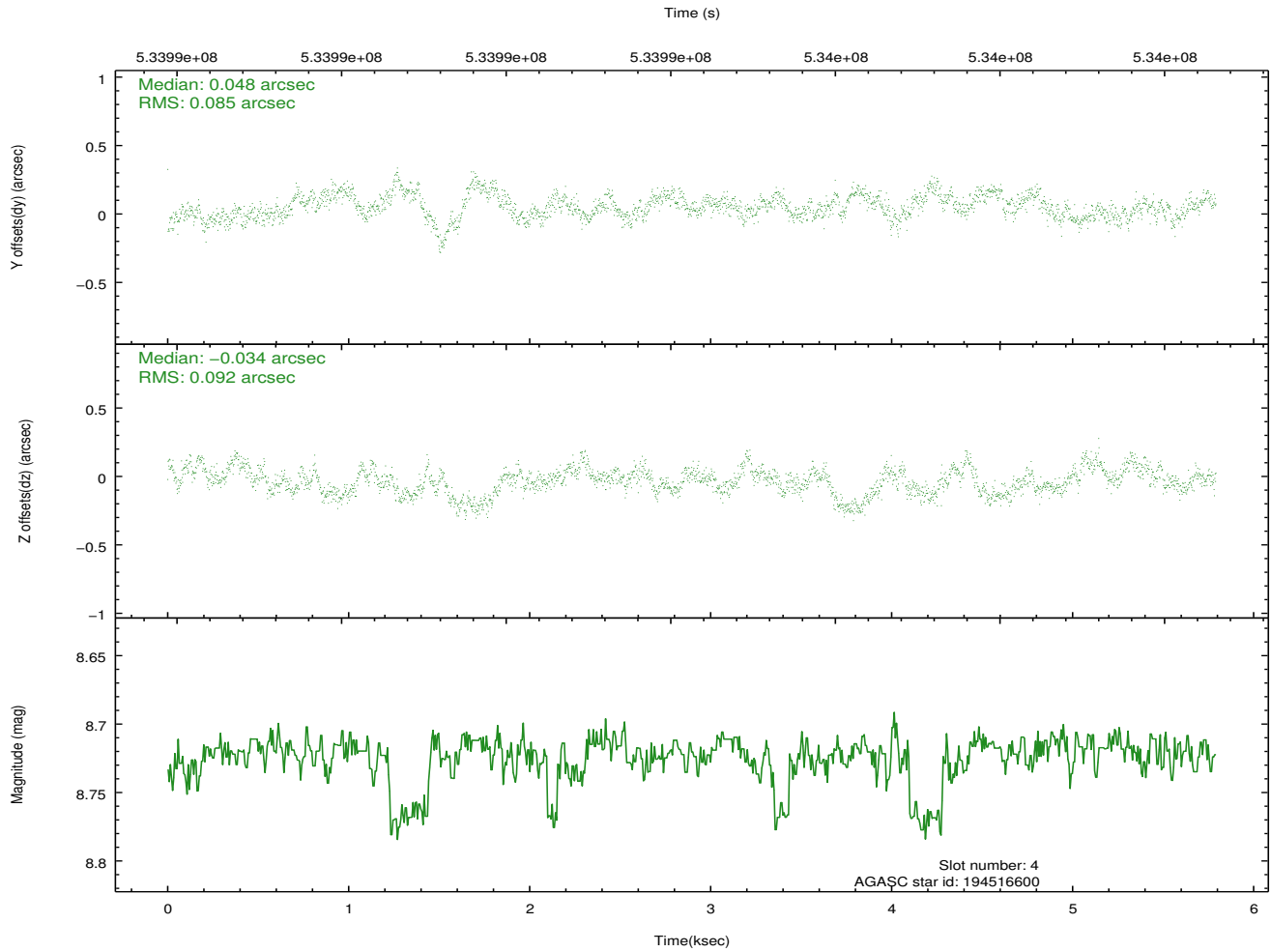
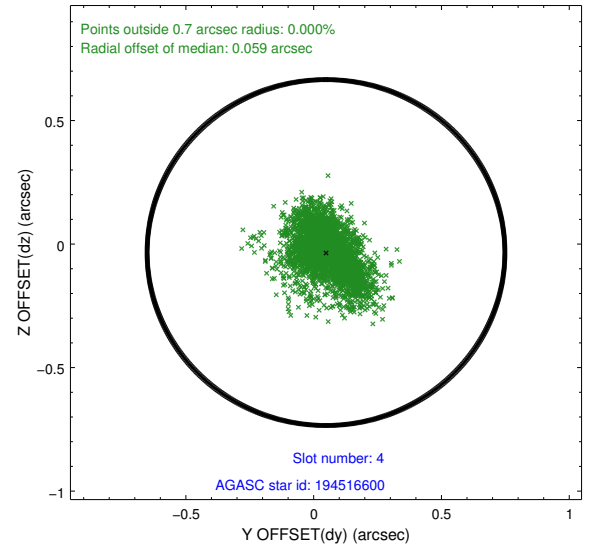
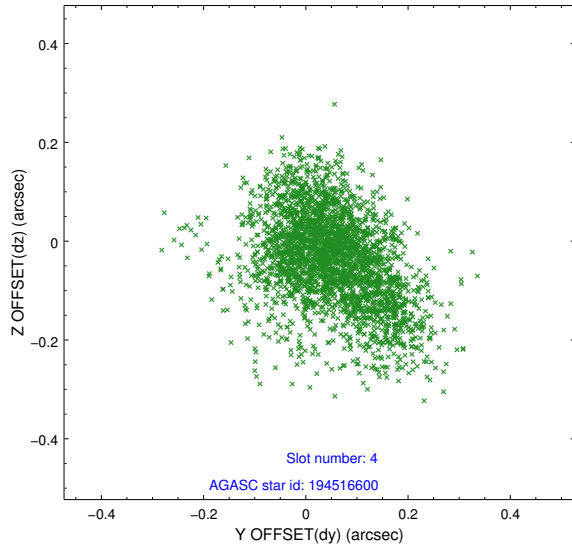
lot	status	used	id	mag	n_pts	med_dy	med_dz	drl	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.14	1413	0.043	0.040	0.015	0.023	0.000000	0.000000	920.22	-841.82
1	FID		ACIS-I-5	7.13	1413	-0.266	0.044	0.009	0.014	0.000000	0.000000	-1827.68	1055.09
2	FID		ACIS-I-6	7.14	1412	0.132	-0.014	0.010	0.015	0.000000	0.000000	384.67	1700.76
3	GUIDE	used	194516208	10.31	2819	-0.030	-0.130	0.351	0.546	223.415393	22.009357	420.70	382.30
4	GUIDE	used	194516600	8.72	2825	0.048	-0.034	0.131	0.224	222.565085	21.897195	-2204.96	1534.19
5	BAD	used	195438248	10.50	2629	-0.599	-0.472	0.336	0.539	224.077734	21.566024	1473.93	-2134.40
6	GUIDE	used	194513680	9.44	2826	-0.109	-0.270	0.195	0.301	222.794093	22.299945	-790.24	2360.89
7	GUIDE	used	194517472	9.70	2825	0.599	0.798	0.199	0.316	223.705711	21.279824	-126.87	-2362.27

2.4 Star Slots

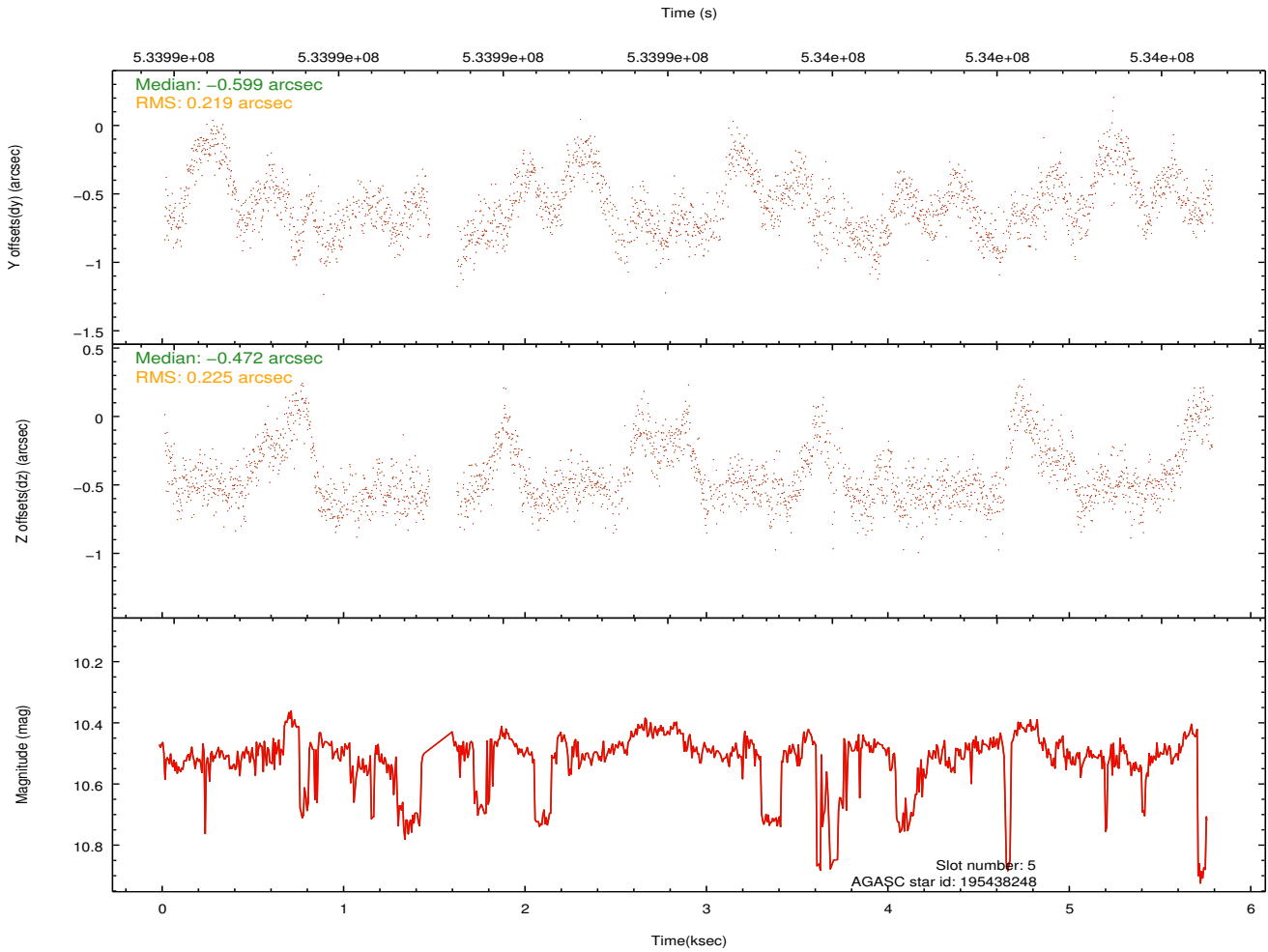
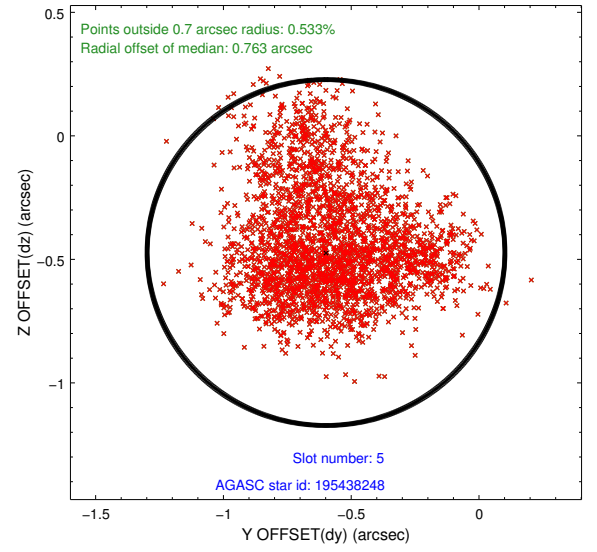
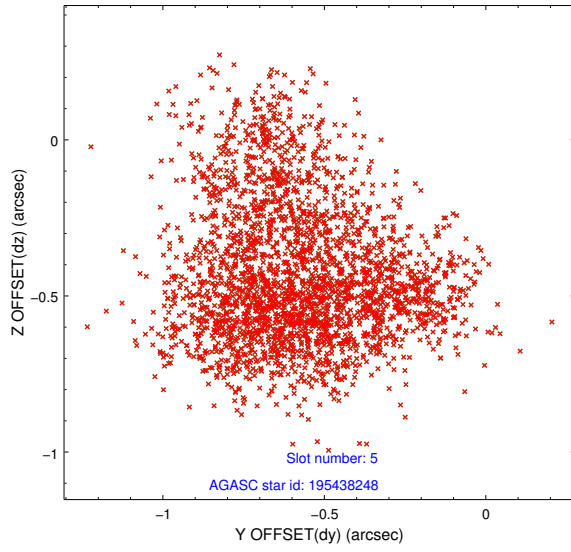
2.4.1 Slot 3



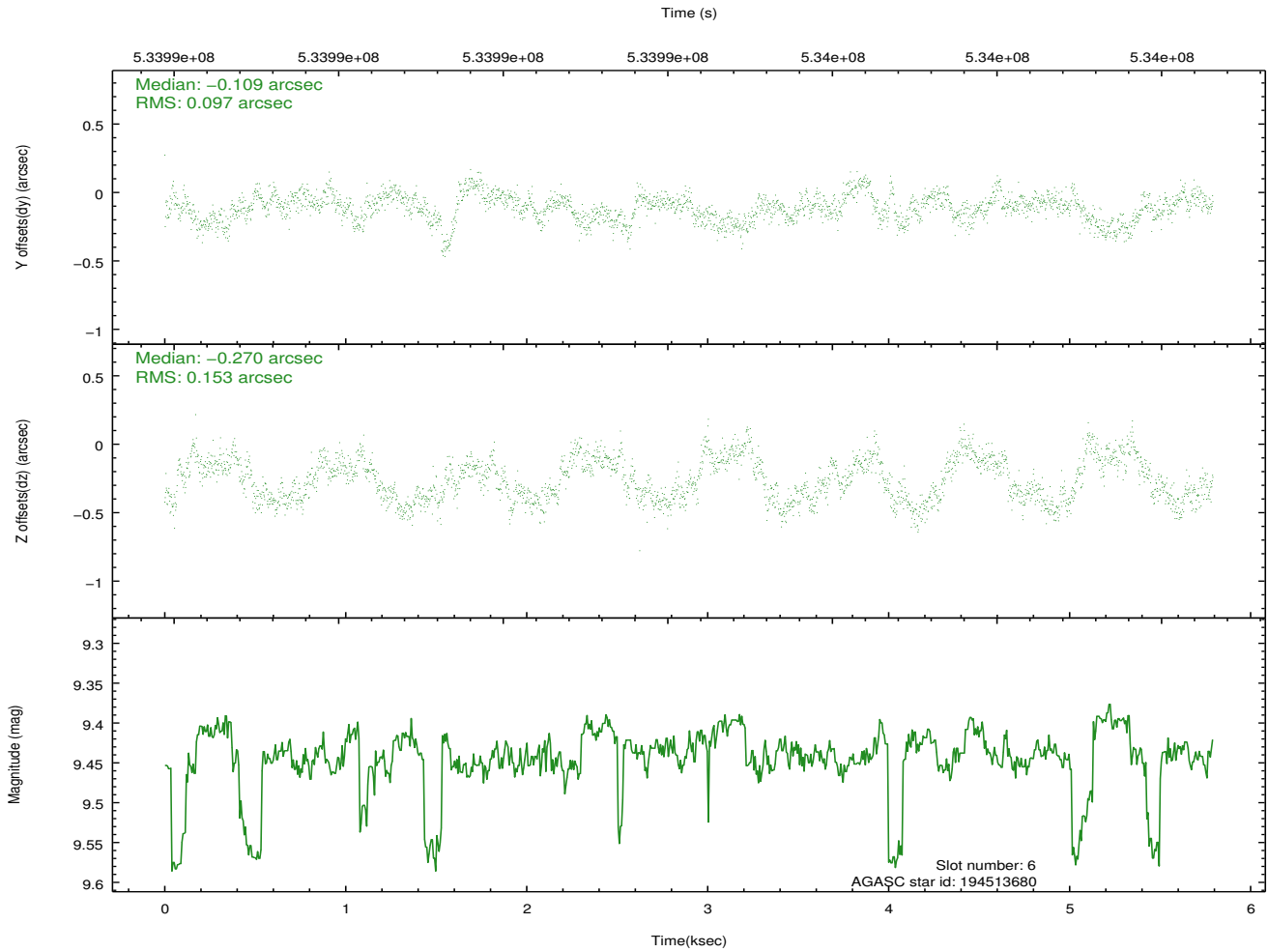
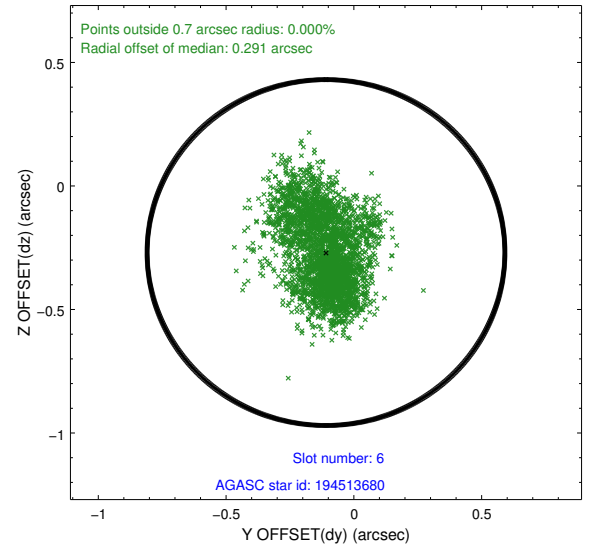
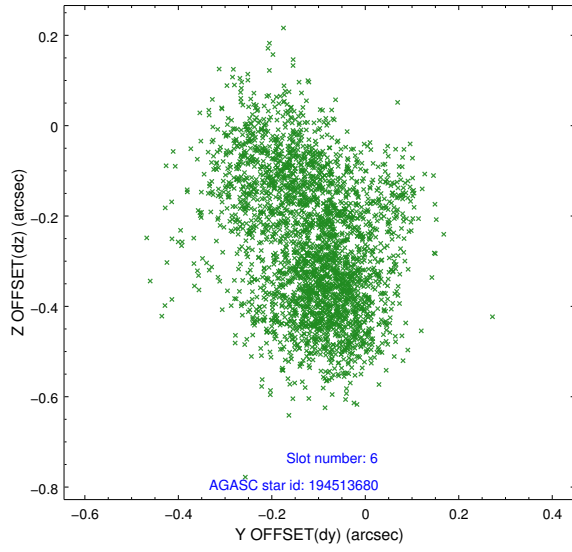
2.4.2 Slot 4



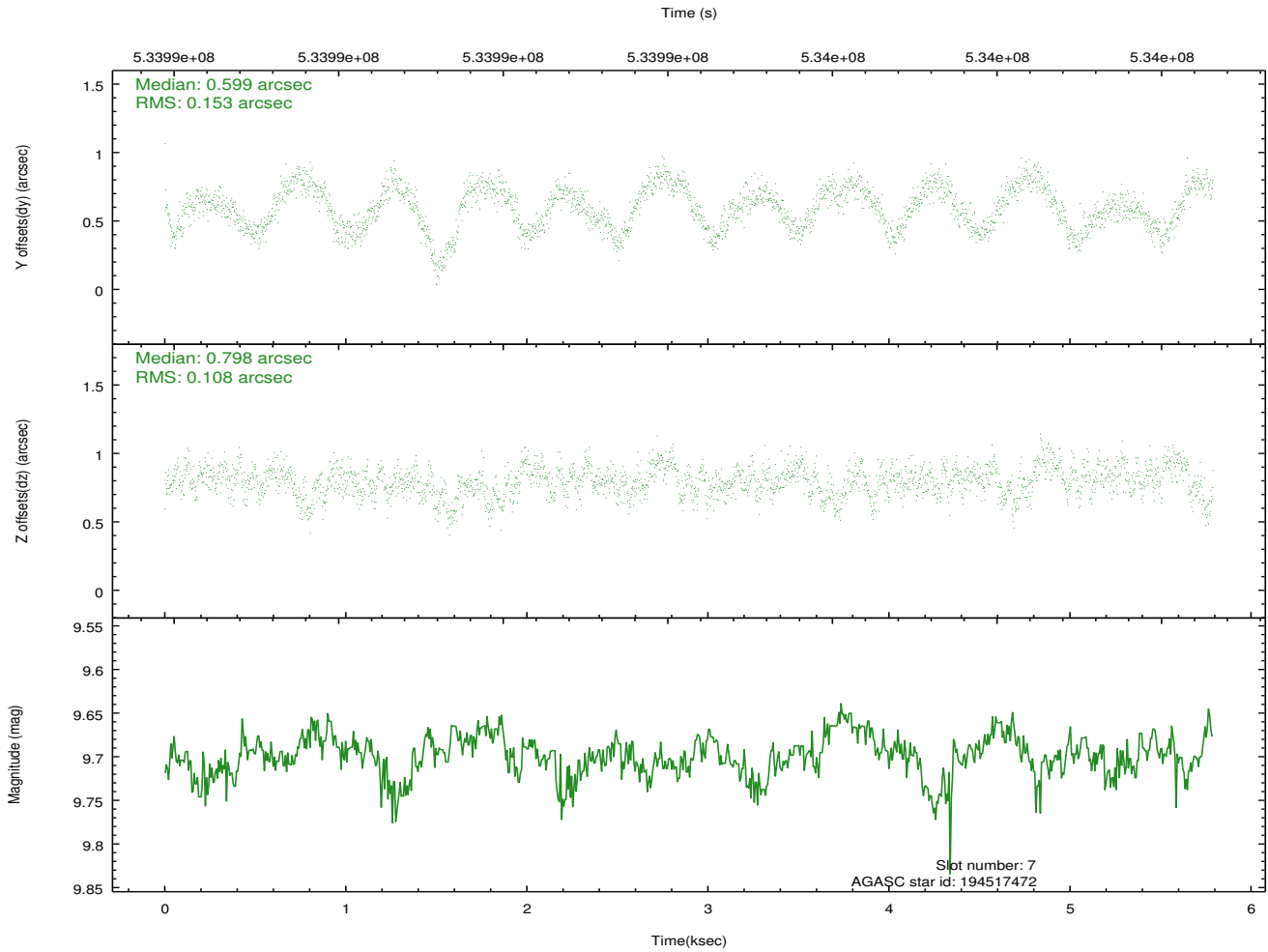
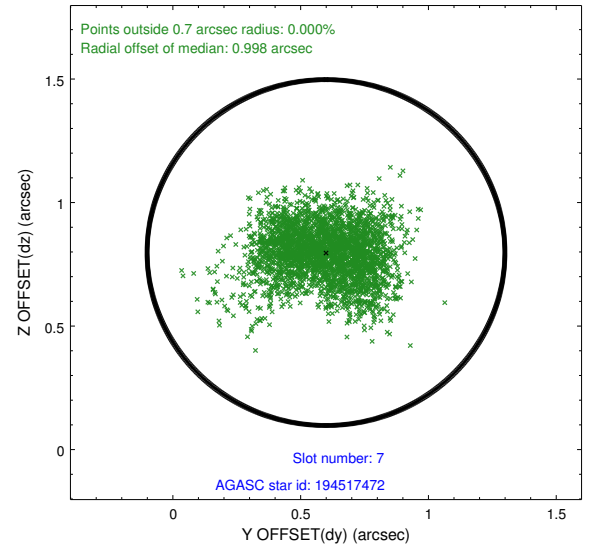
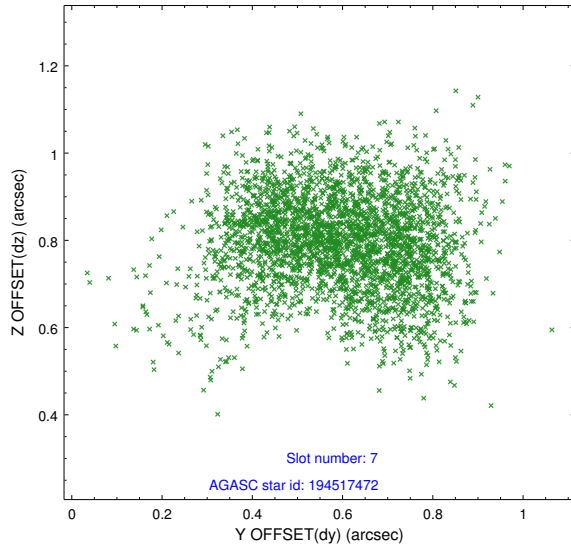
2.4.3 Slot 5



2.4.4 Slot 6

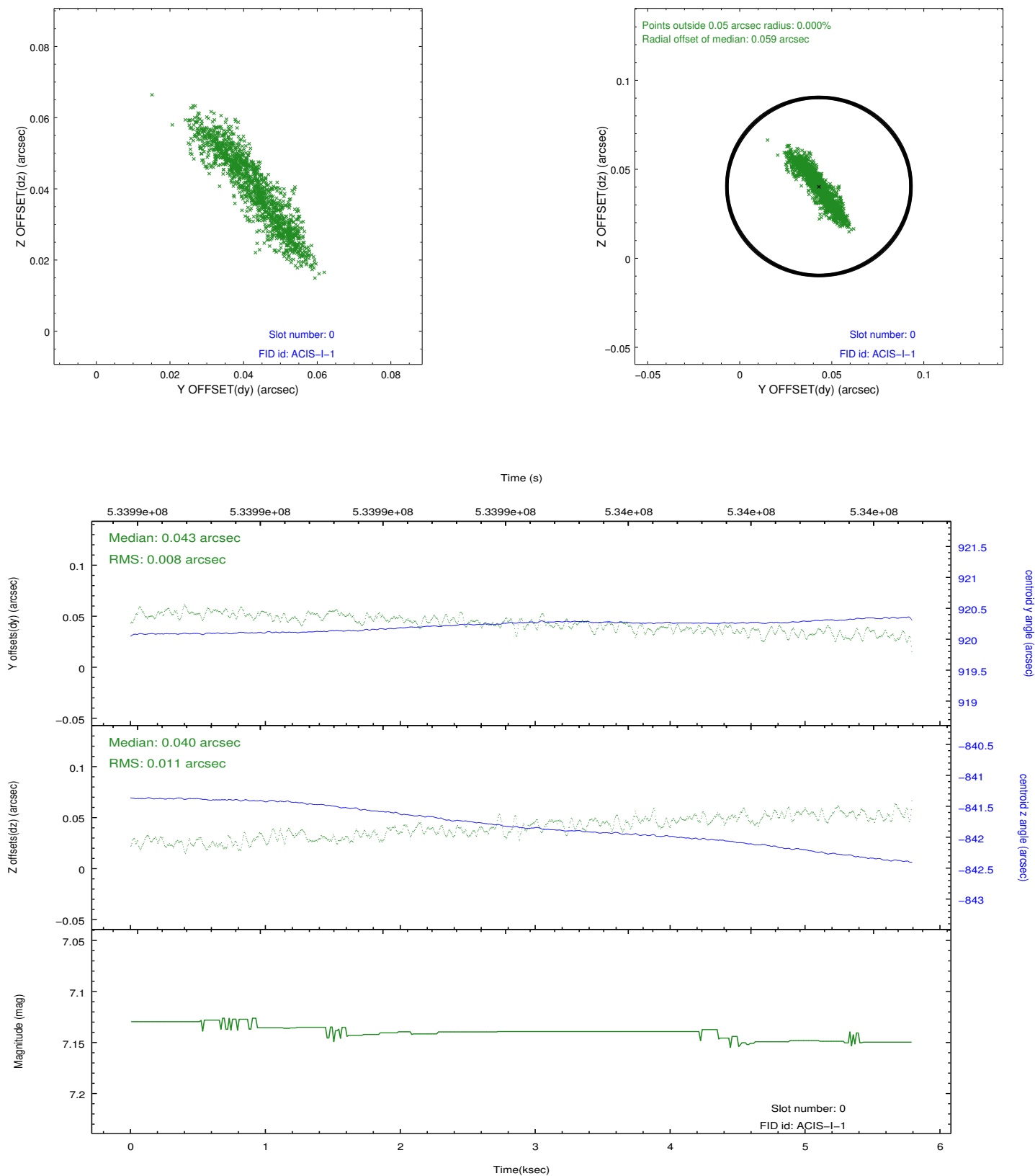


2.4.5 Slot 7

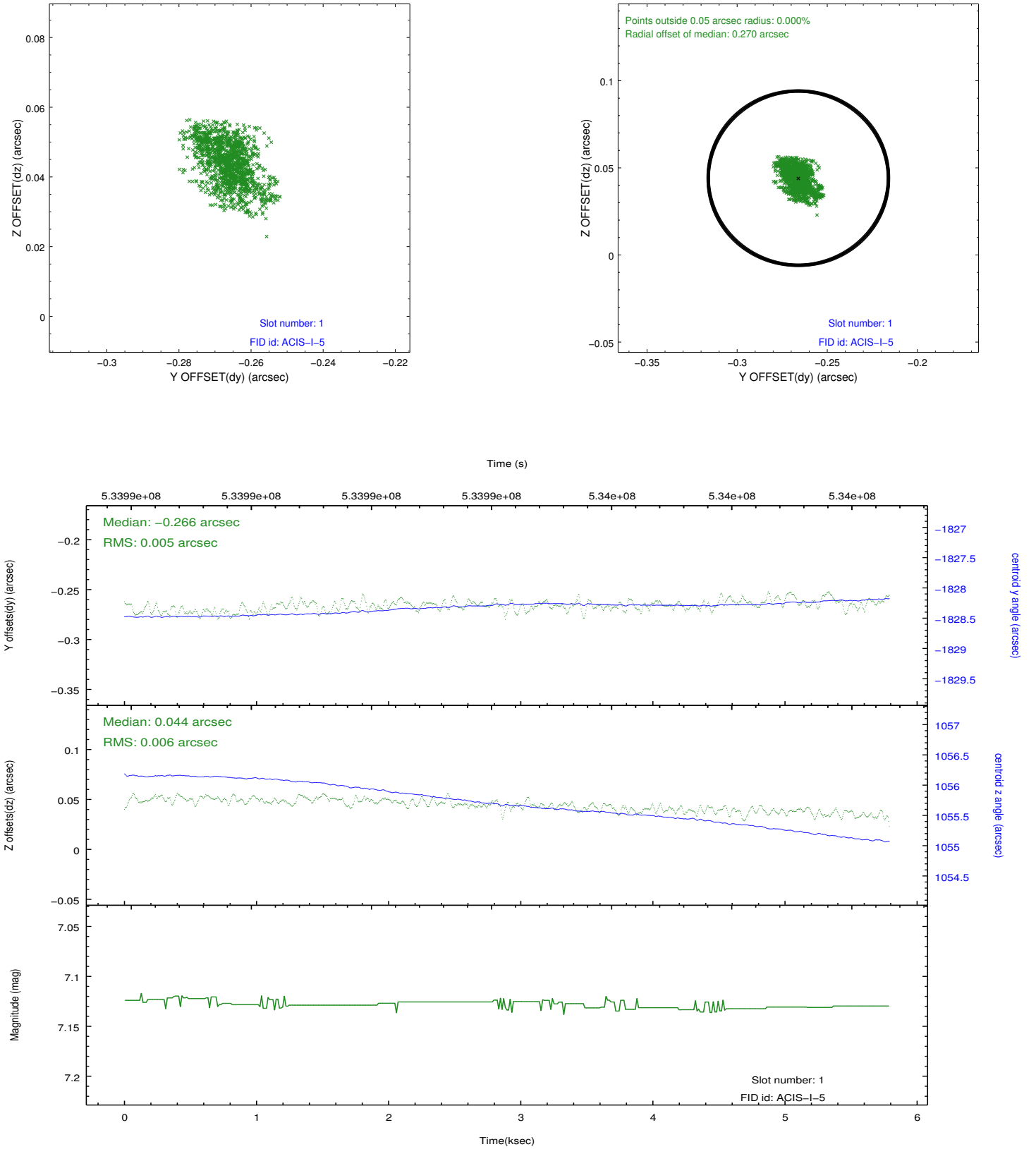


2.5 FID Slots

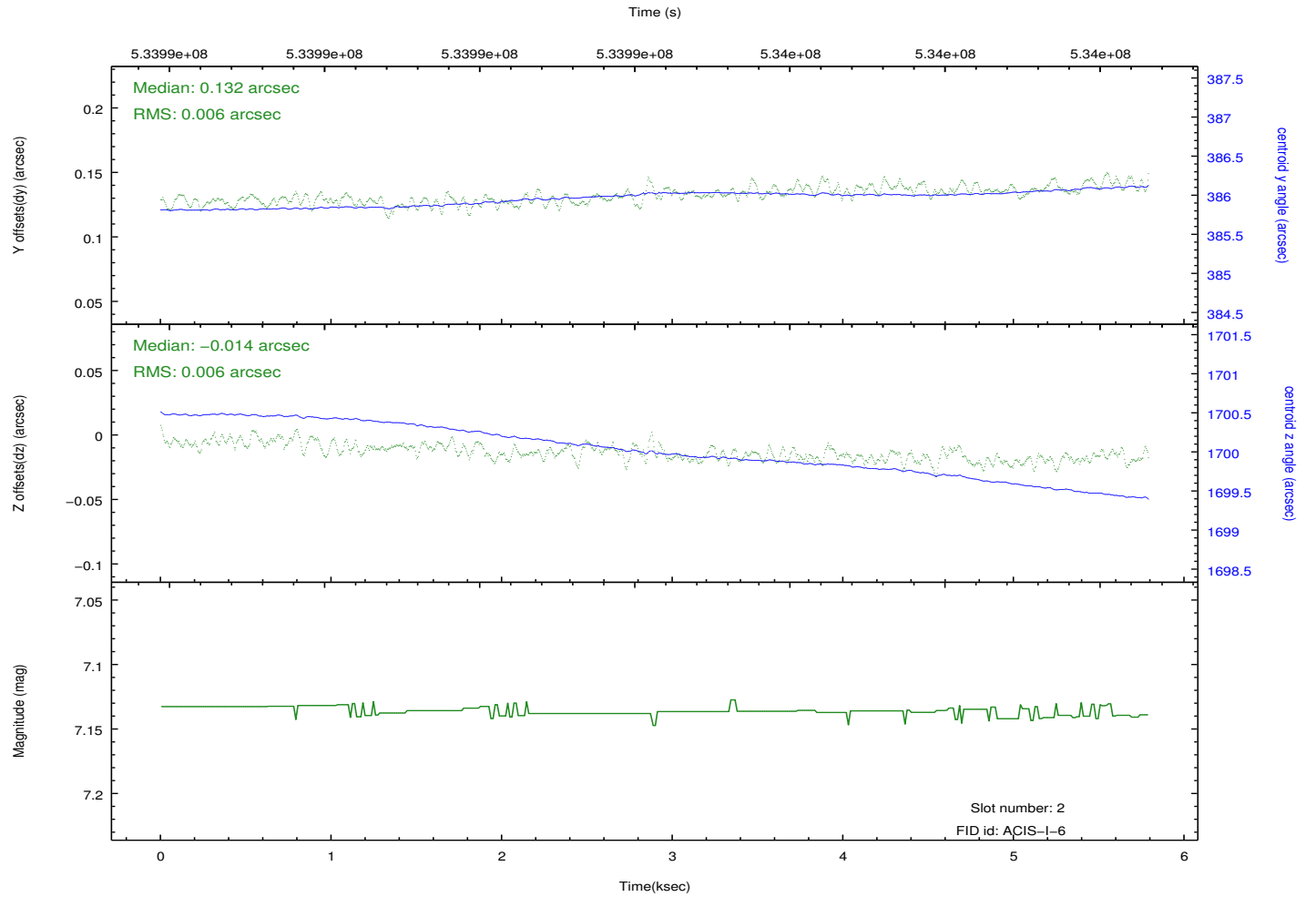
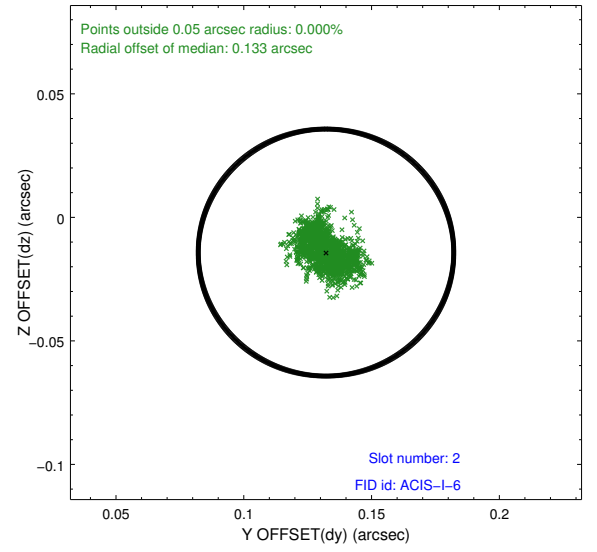
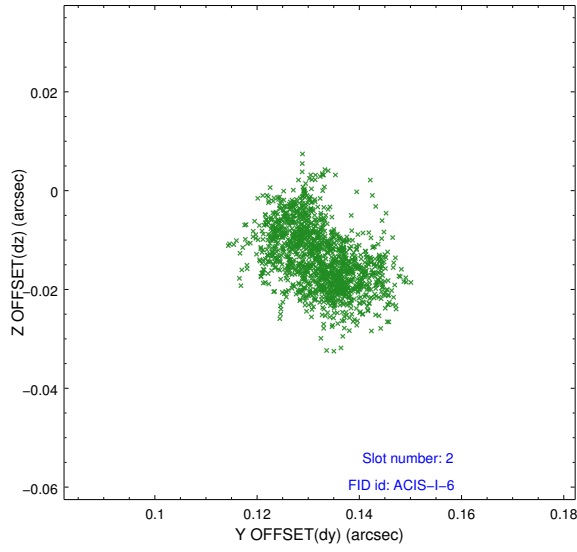
2.5.1 Slot 0



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)	2014.12.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.083143682003

A.2 Comments