

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10463 - L2 Version 2
Chandra X-Ray Center

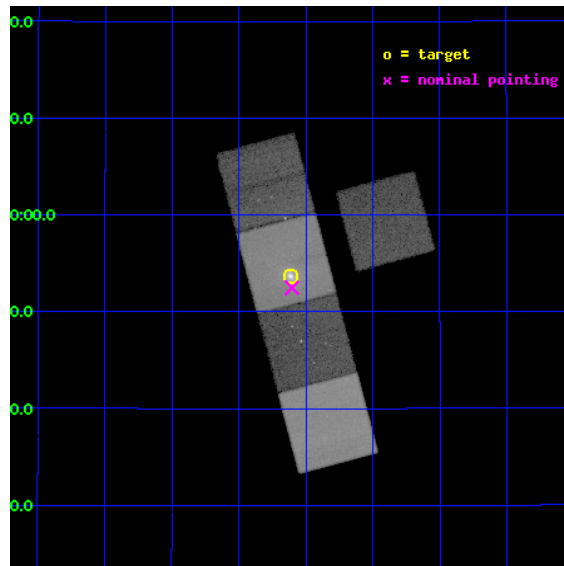
L2 Processing Date : May 31 2012

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

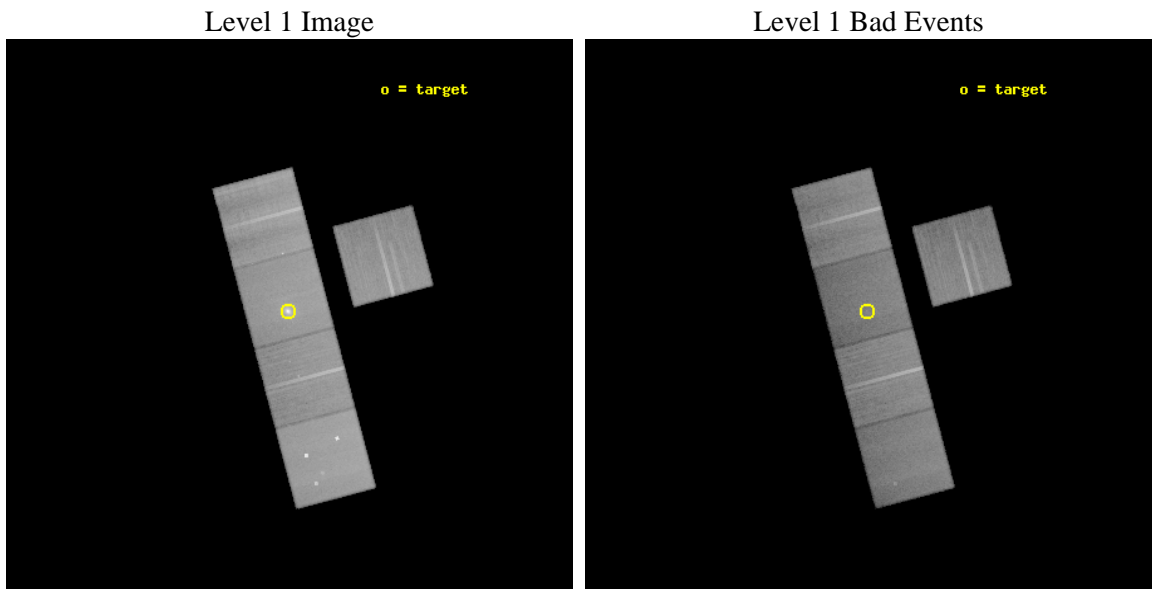
seq_num	800824	Sequence number
obs_id	10463	Observation id
title	Does AGN heating quench star formation in Brightest Cluster Galaxies?	Proposal title
observer	Dr Helen Russell	Principal investigator
object	ZwCl 2089	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	135.154167	Observer's specified target RA [deg]
dec_targ	20.895278	Observer's specified target Dec [deg]
ra_nom	135.15105371866	Nominal RA [deg]
dec_nom	20.874536970852	Nominal Dec [deg]
roll_nom	255.15774707802	Nominal Roll [deg]
revision	2	Processing version of data
ontime	41177.300316691	Sum of GTIs [s]
livetime	40639.288573766	Livetime [s]
ontime3	41174.159306347	Sum of GTIs [s]
ontime5	41177.300316691	Sum of GTIs [s]
ontime6	41171.018355608	Sum of GTIs [s]
ontime7	41177.300316691	Sum of GTIs [s]
ontime8	41171.018286109	Sum of GTIs [s]
l2events	541440	Number of level 2 events



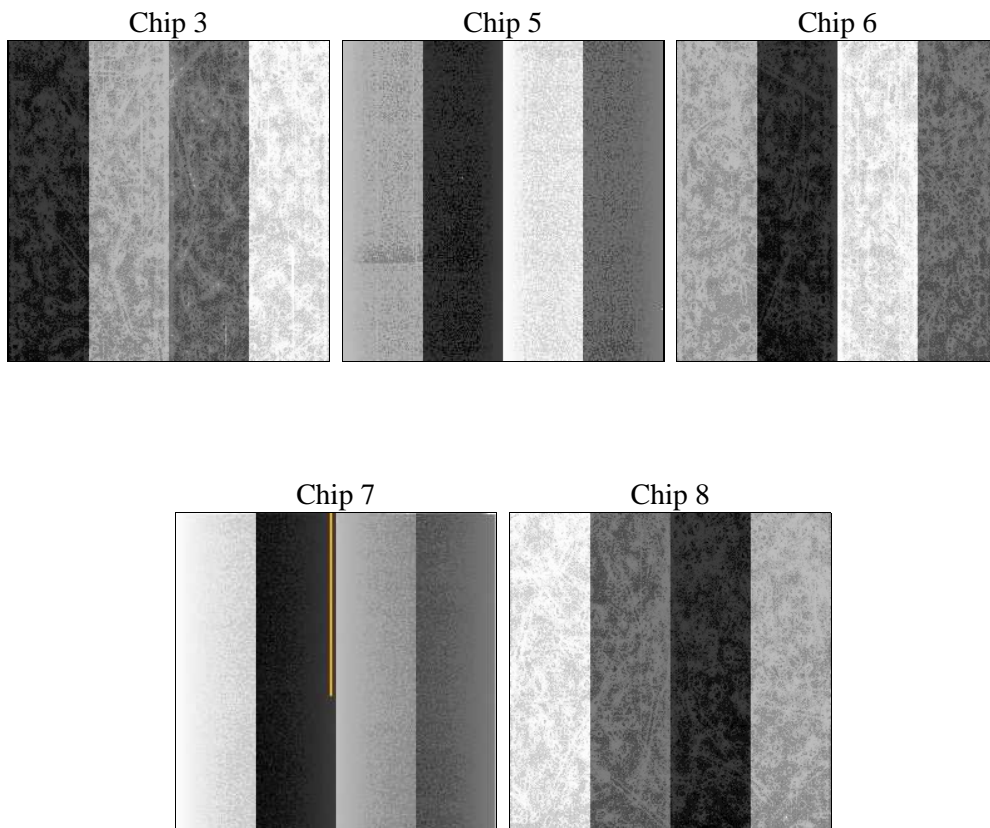
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	41000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	41177.300316691	Sum of GTIs [s]
caldsver	4.4.9	 	ontime3	41174.159306347	Sum of GTIs [s]
date	2012-05-31T16:36:52	Date and time of file creation	ontime5	41177.300316691	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	41171.018355608	Sum of GTIs [s]
			ontime7	41177.300316691	Sum of GTIs [s]
			ontime8	41171.018286109	Sum of GTIs [s]
			l1events	2121979	Number of level 1 events

2.1.4 Events

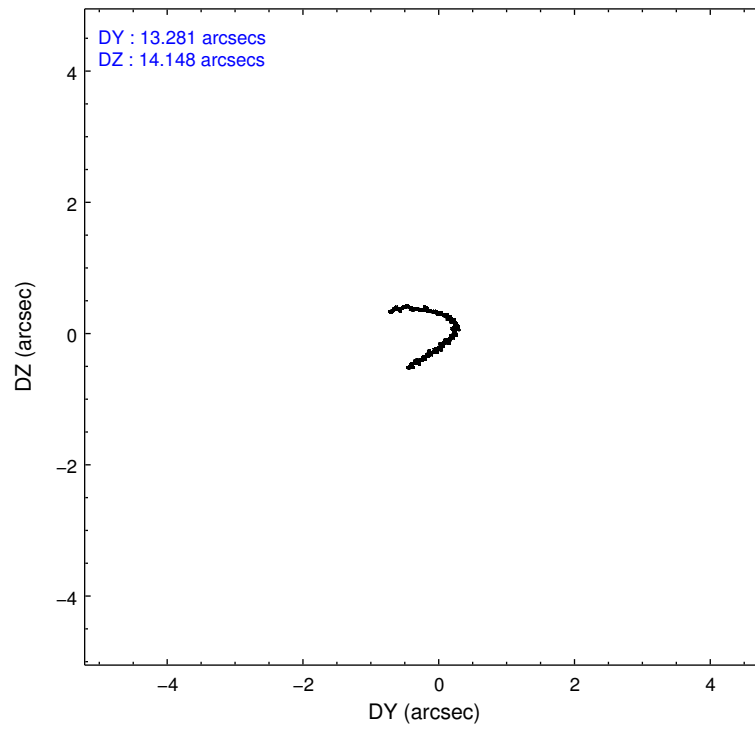
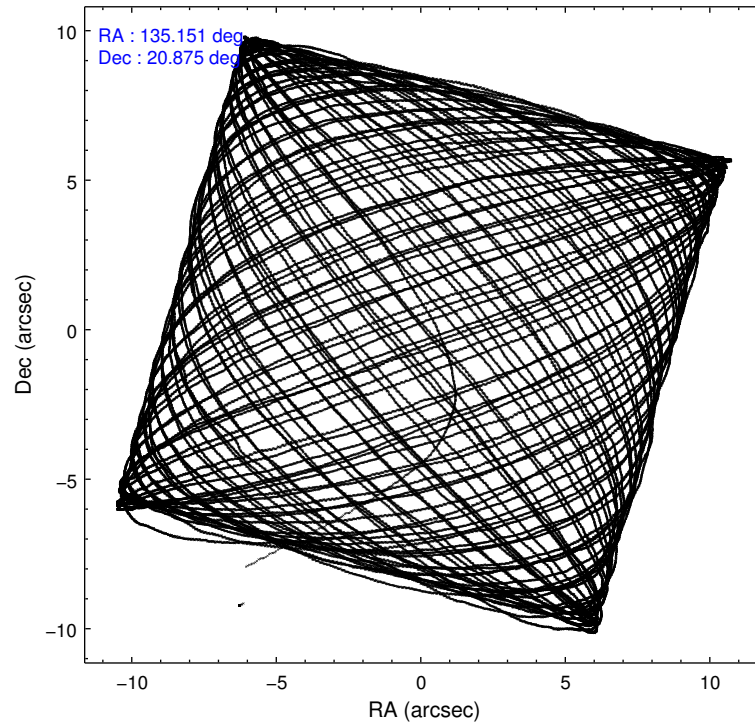
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	345851	521103	365754	441011	448260
rejected events	313093	256827	328379	226193	337469
rejected %	90%	49%	89%	51%	75%

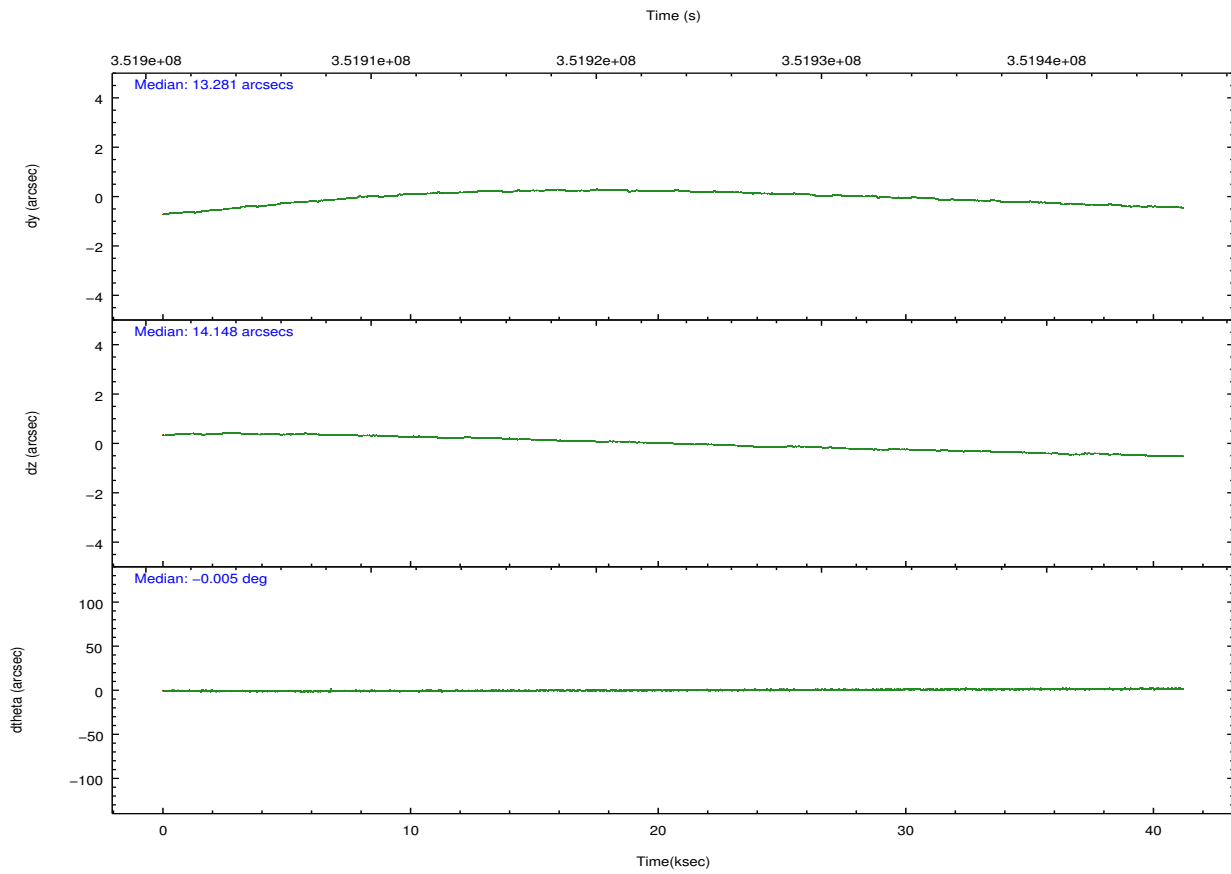
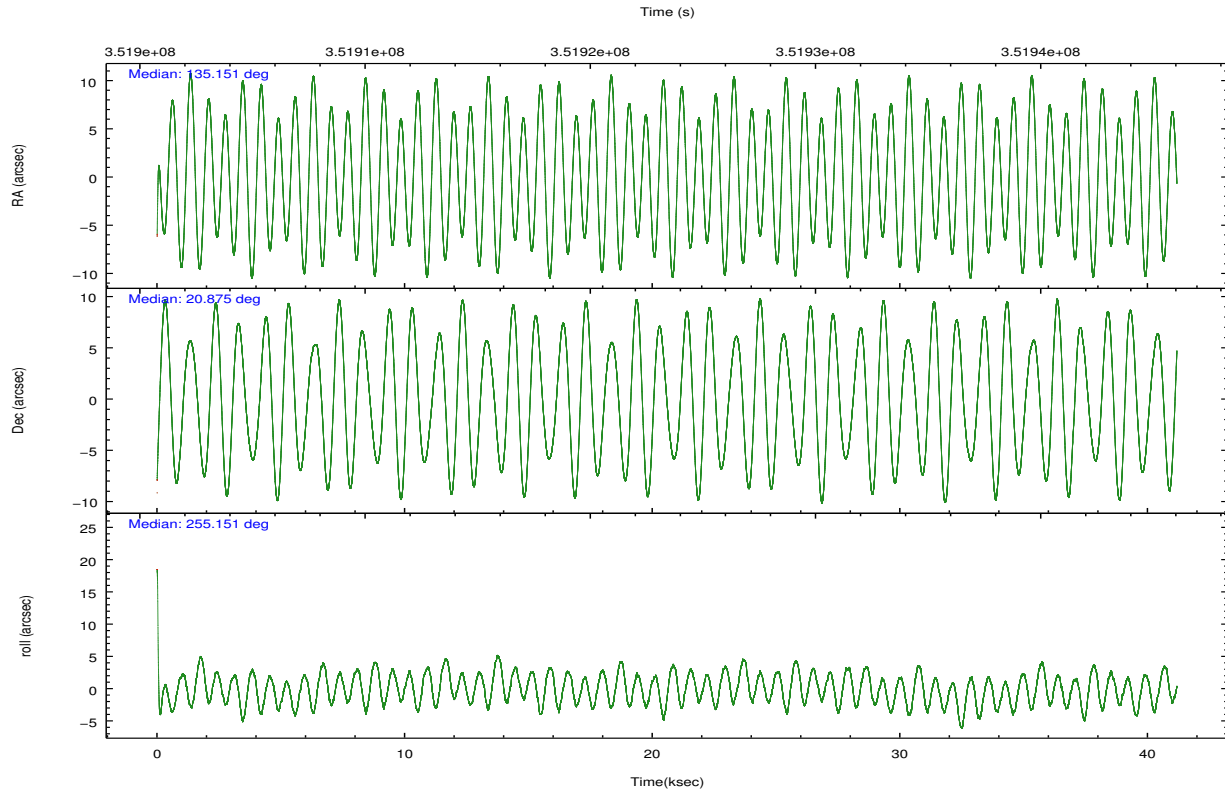
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	11378	41511	13354	27879	33537
	3%	7%	3%	6%	7%
grade 1 events	230	925	184	574	375
	0%	0%	0%	0%	0%
grade 2 events	7452	74720	8617	46424	25936
	2%	14%	2%	10%	5%
grade 3 events	3842	10915	3999	20411	11887
	1%	2%	1%	4%	2%
grade 4 events	3740	10192	3974	20333	11070
	1%	1%	1%	4%	2%
grade 5 events	14802	39909	14849	43219	21308
	4%	7%	4%	9%	4%
grade 6 events	6743	130116	7903	102074	29599
	1%	24%	2%	23%	6%
grade 7 events	297664	212815	312874	180097	314548
	86%	40%	85%	40%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	135.143010	135.1510537186611	CCD I2 on	N	N
[deg] Pointing Dec	20.900833	20.87453697085246	CCD I3 on	O2	Y
[deg] Pointing Roll	255.003974	255.1577470780166	CCD S0 on	N	N
[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	O1	Y
[s] Observation start time (MET)	351903008.184000	351901758.90781	CCD S5 on	N	N
Observation start date	2009-02-24T22:49:02	2009-02-24T22:29:18	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	351944008.184000	351944852.98495	On-chip summing requested	N	N
Observation end date	2009-02-25T10:12:22	2009-02-25T10:27:32	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



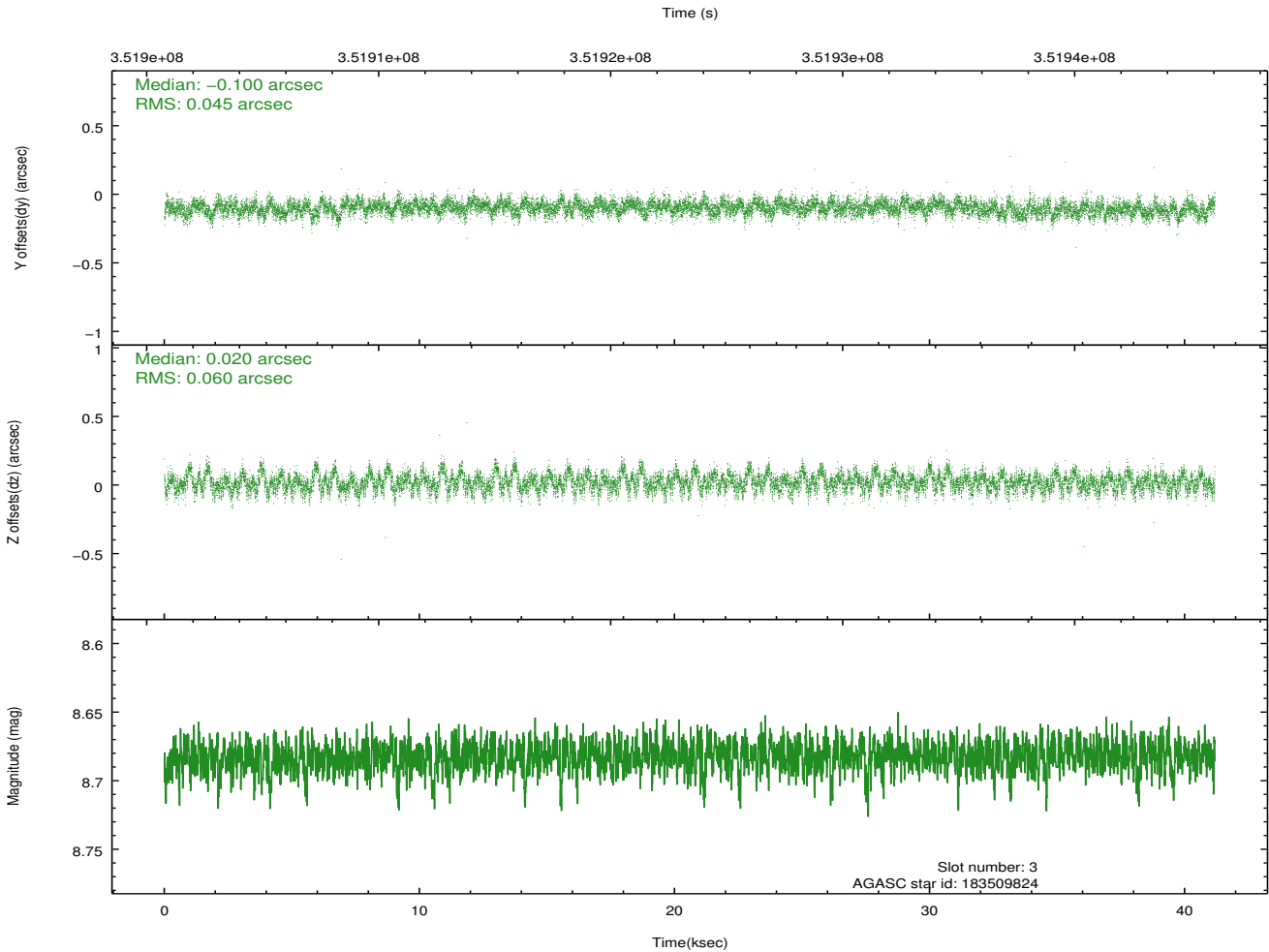
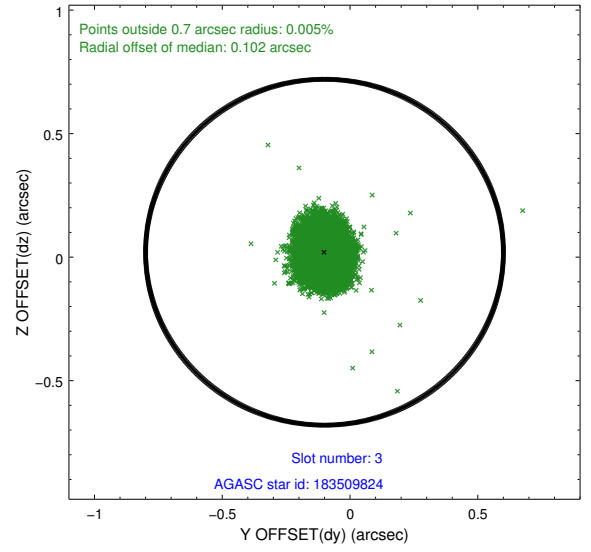
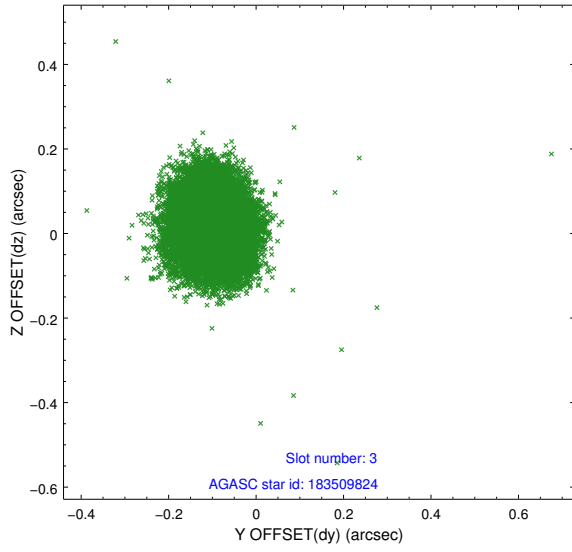


Slot Statistics

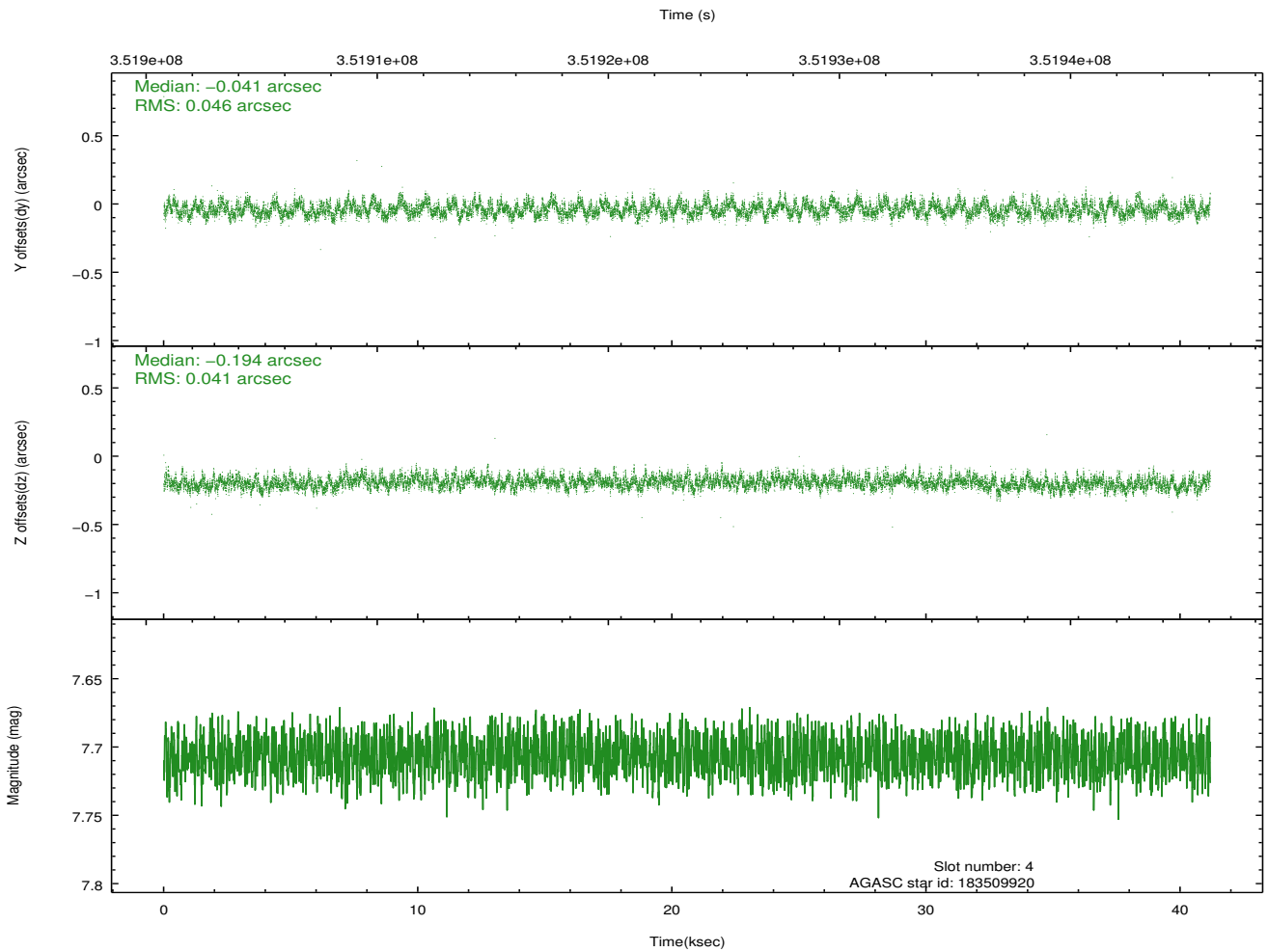
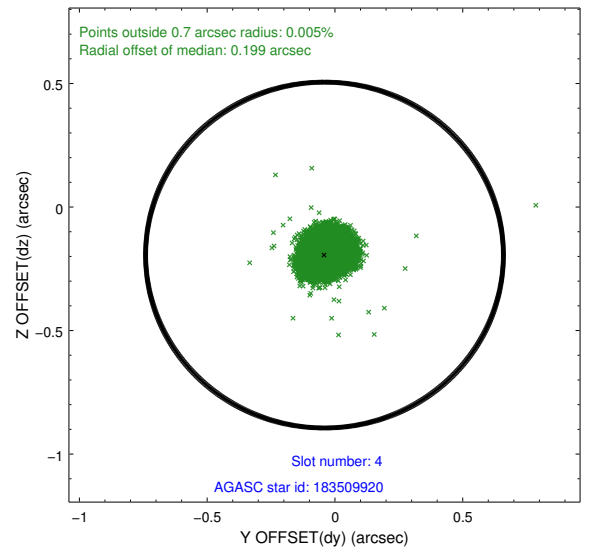
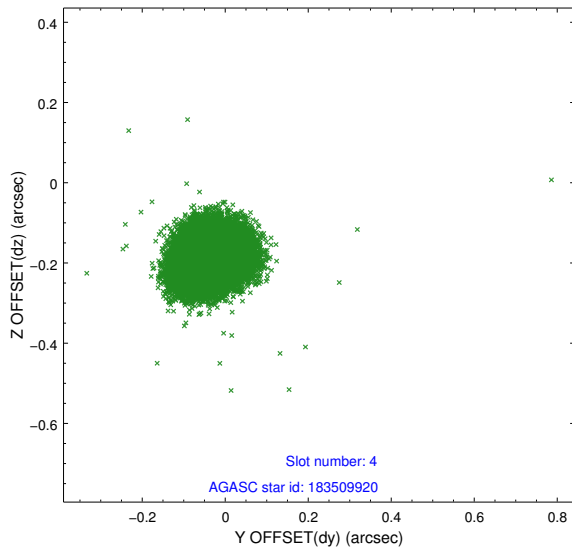
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.00	10045	0.046	-0.004	0.015	0.022	0.000000	0.000000	929.94	-1731.13
1	FID	ACIS-S-4	6.99	10045	0.121	-0.015	0.013	0.022	0.000000	0.000000	2147.42	173.02
2	FID	ACIS-S-5	7.02	10044	-0.195	0.032	0.010	0.016	0.000000	0.000000	-1819.17	166.65
3	GUIDE	183509824	8.68	20073	-0.100	0.020	0.080	0.128	135.197689	21.453708	-1967.38	-334.77
4	GUIDE	183509920	7.71	20087	-0.041	-0.194	0.065	0.104	134.732215	21.166288	-567.04	-1580.43
5	GUIDE	183512448	8.77	20071	-0.022	-0.048	0.077	0.126	134.455302	20.828151	847.12	-2169.10
6	GUIDE	183518896	8.91	20000	-0.053	-0.014	0.116	0.171	135.569040	20.991361	-686.99	1298.10
7	GUIDE	183504544	9.16	20069	0.219	0.239	0.087	0.143	135.649286	20.125391	2251.63	2374.44

2.4 Star Slots

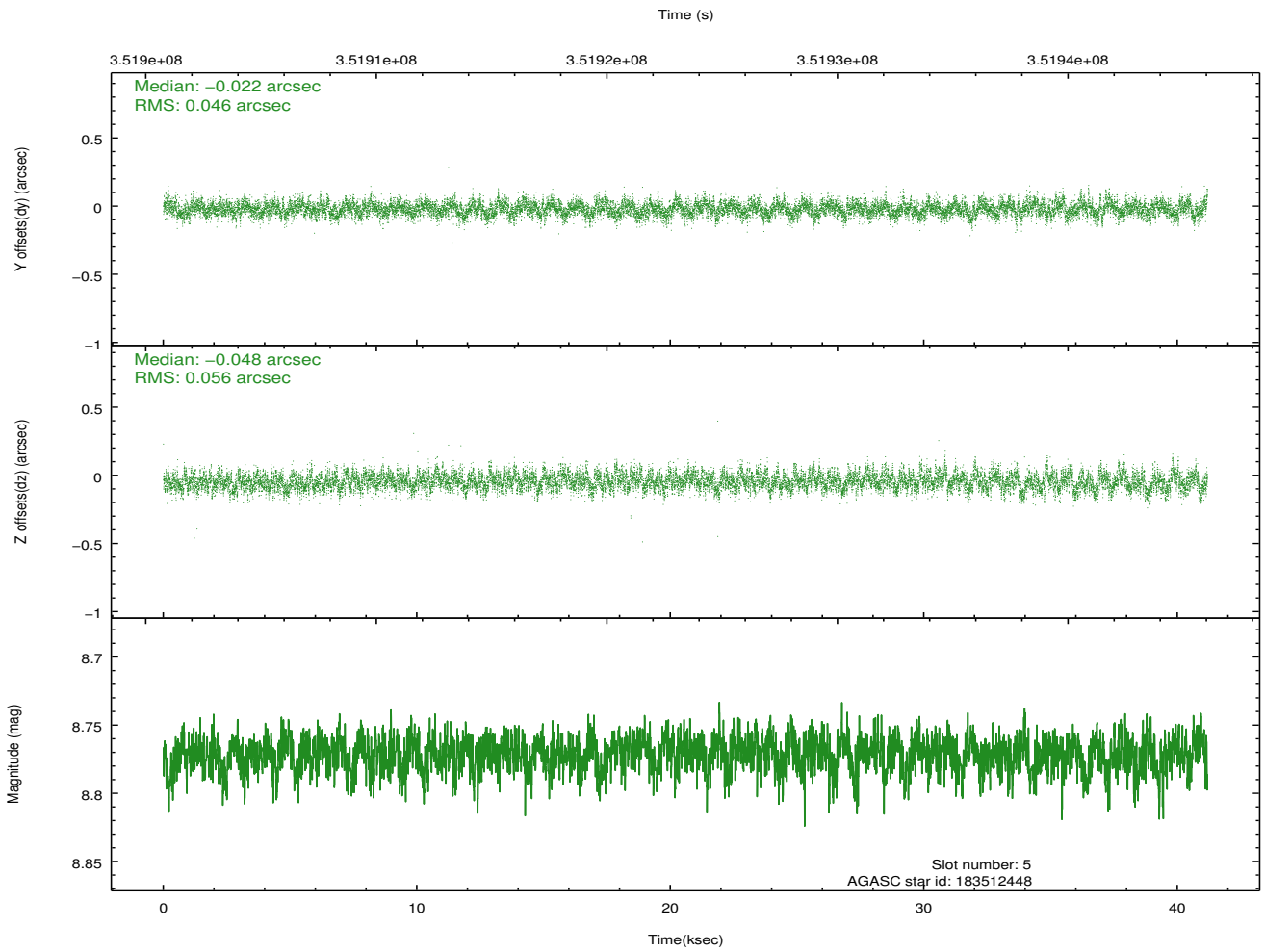
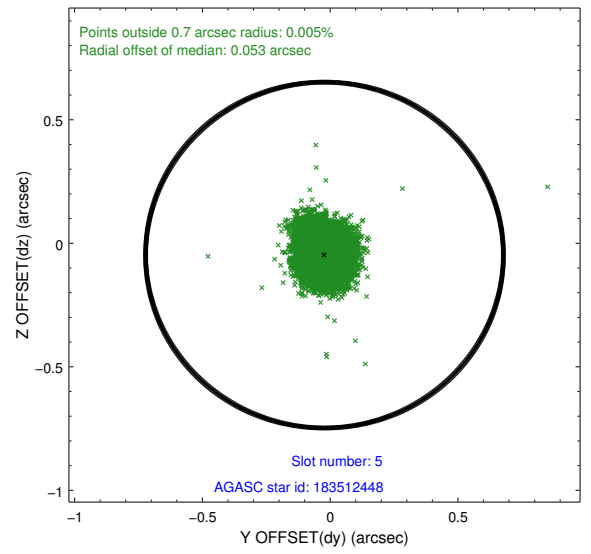
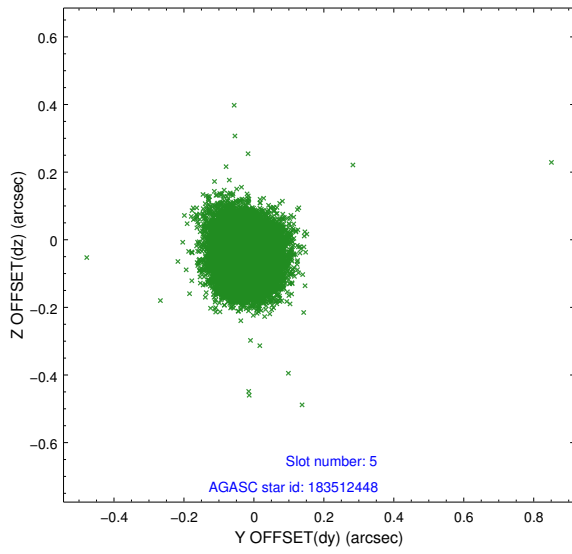
2.4.1 Slot 3



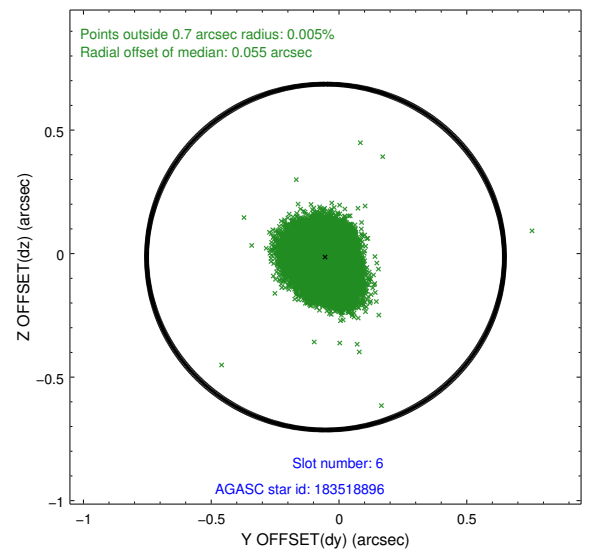
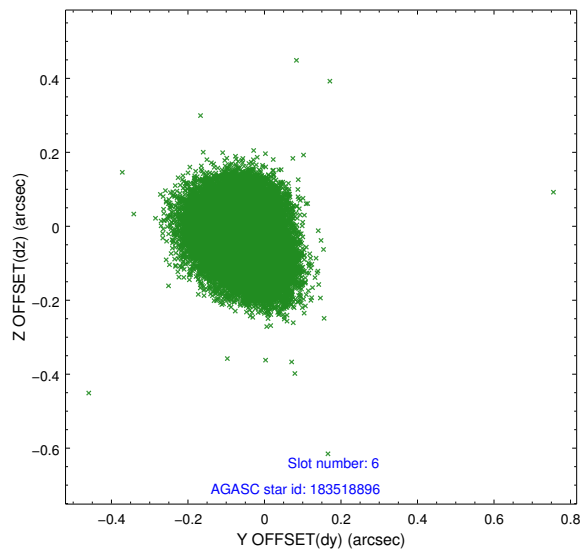
2.4.2 Slot 4



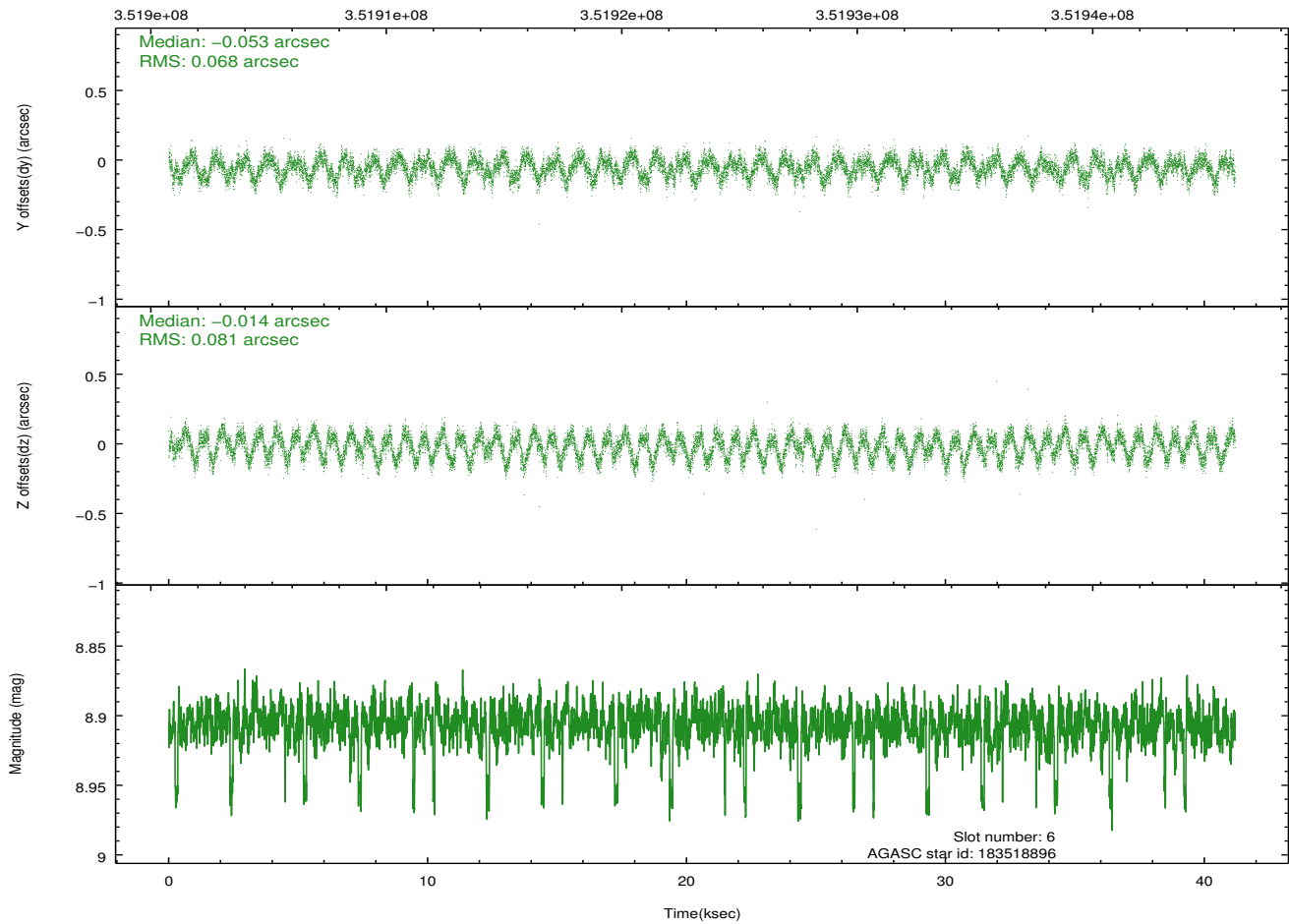
2.4.3 Slot 5



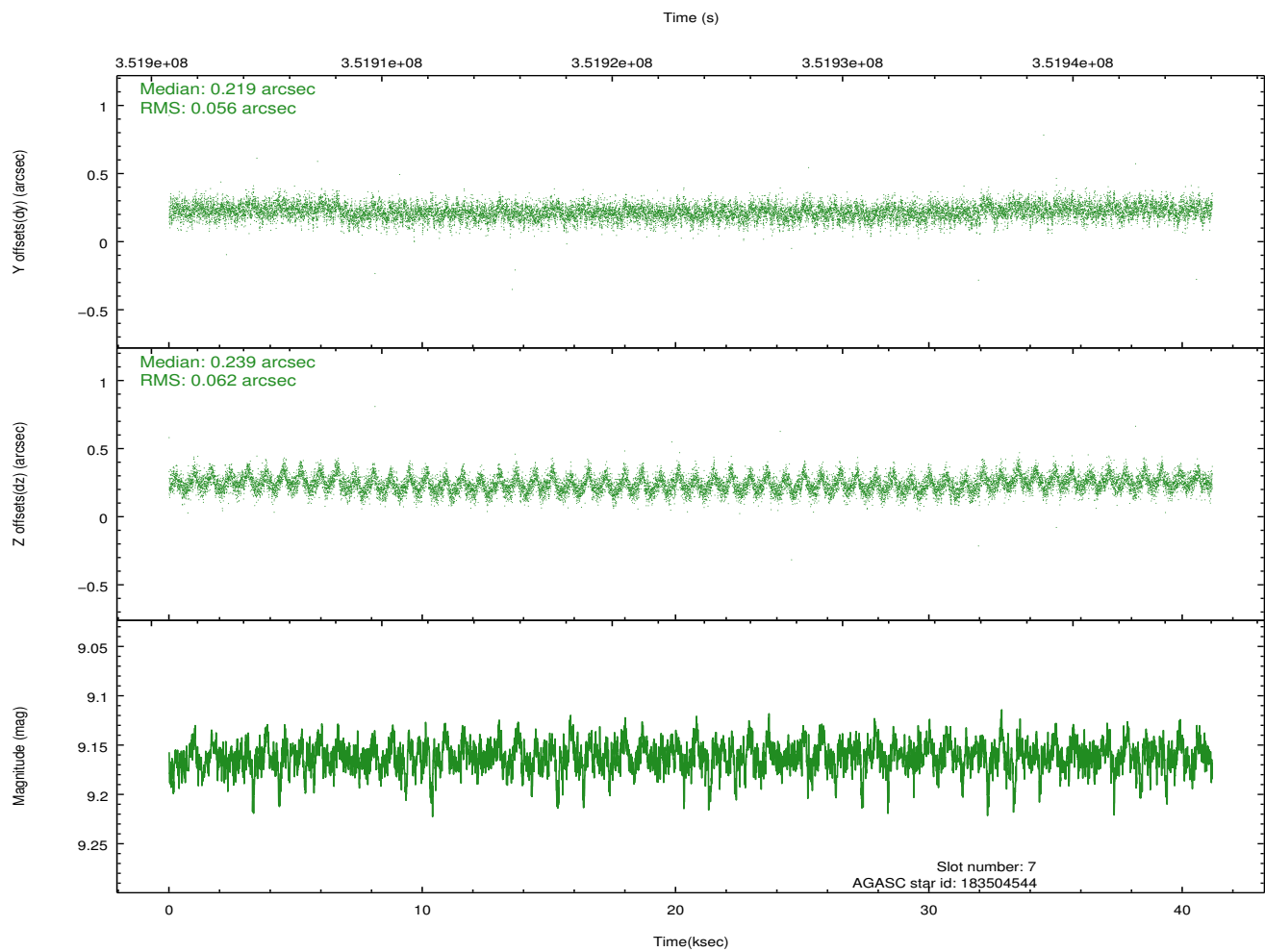
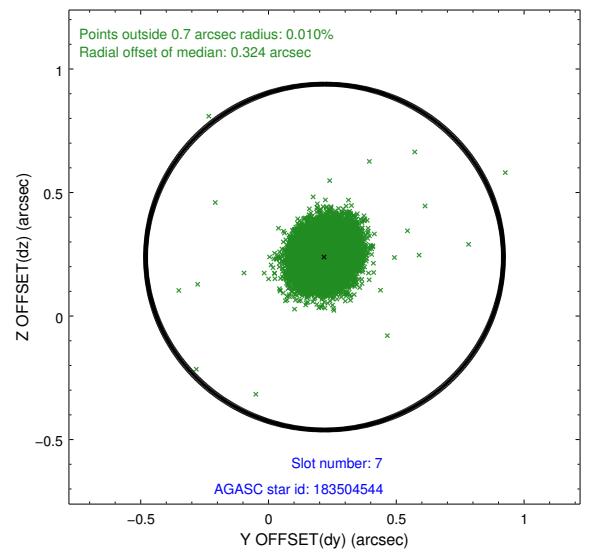
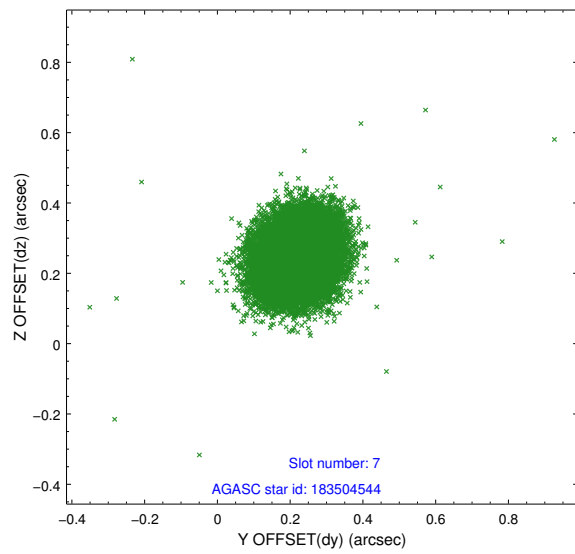
2.4.4 Slot 6



Time (s)

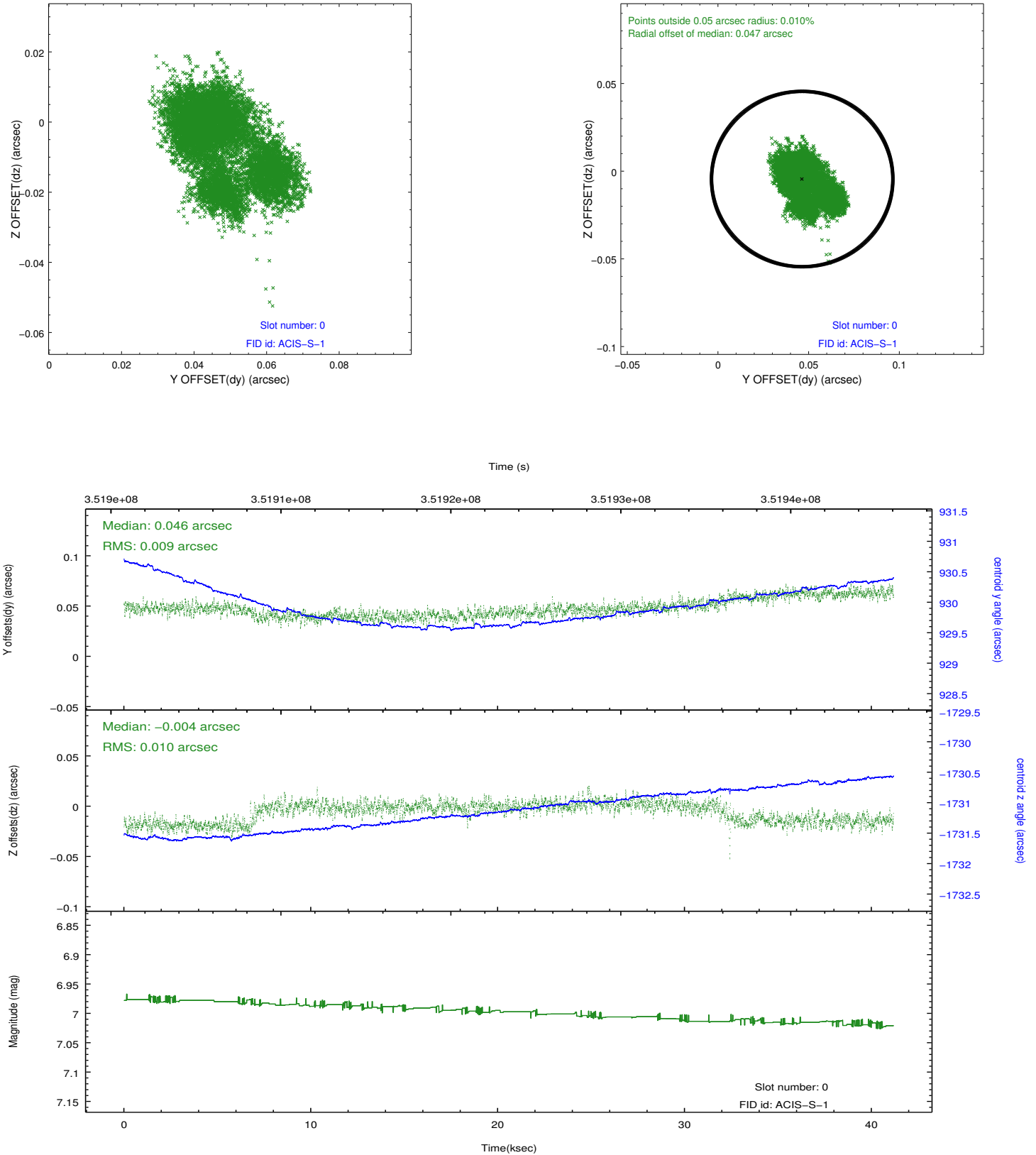


2.4.5 Slot 7

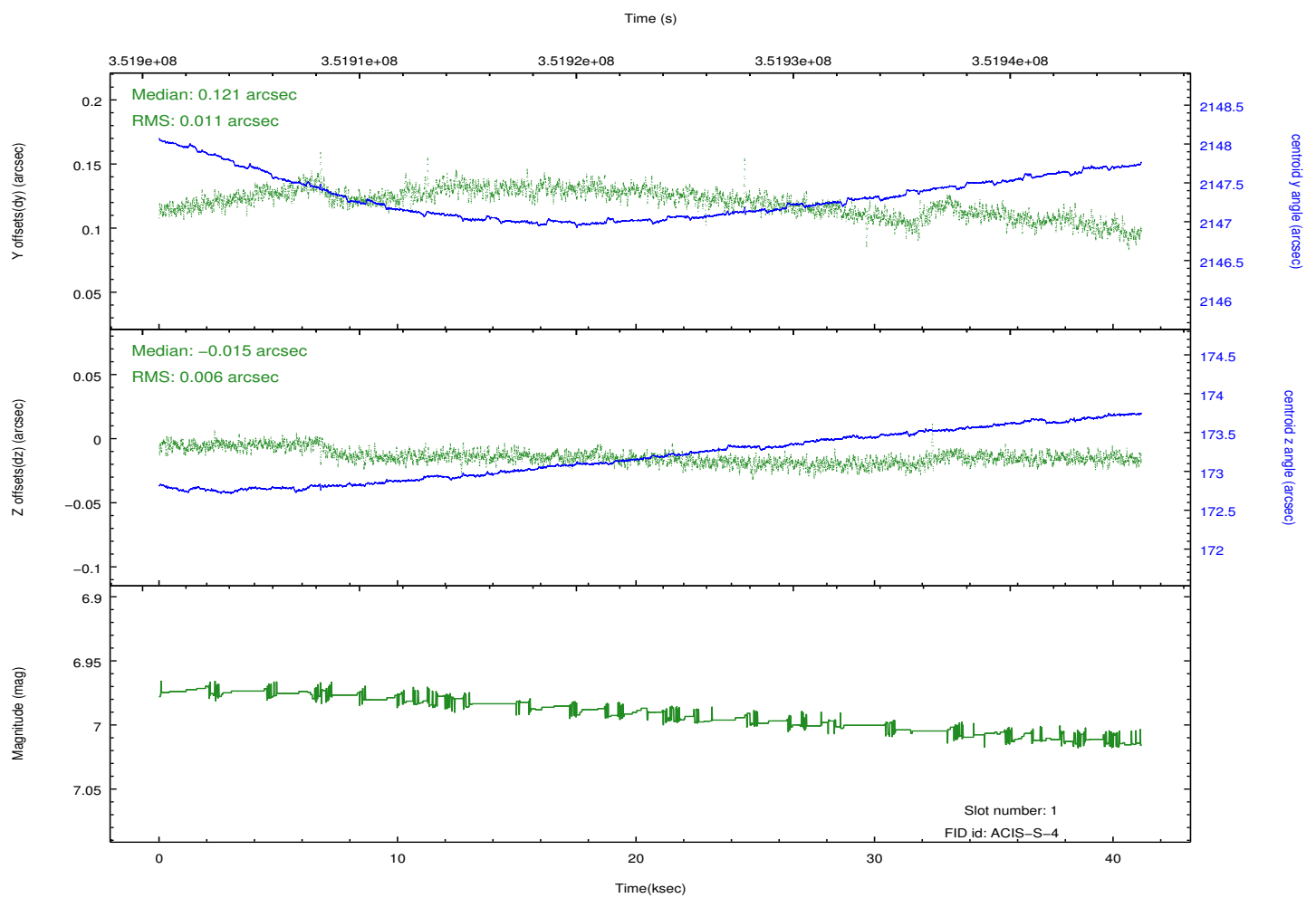
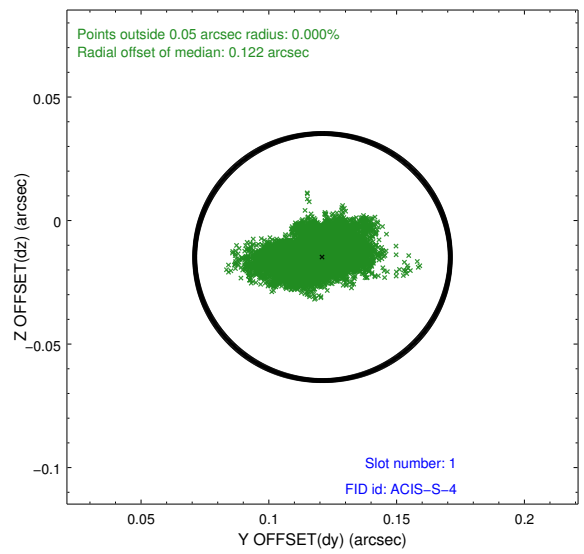
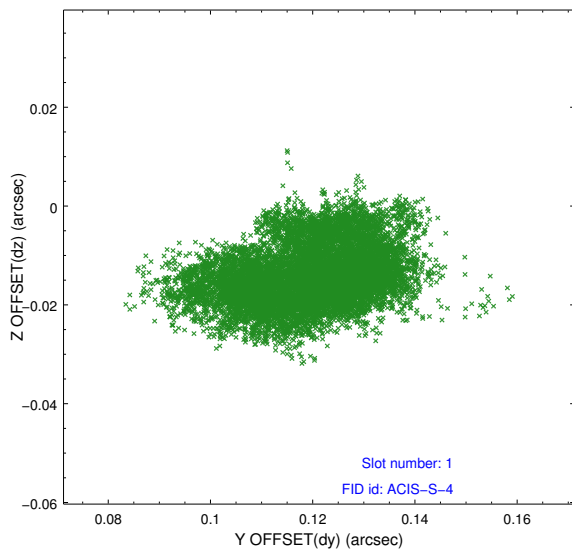


2.5 FID Slots

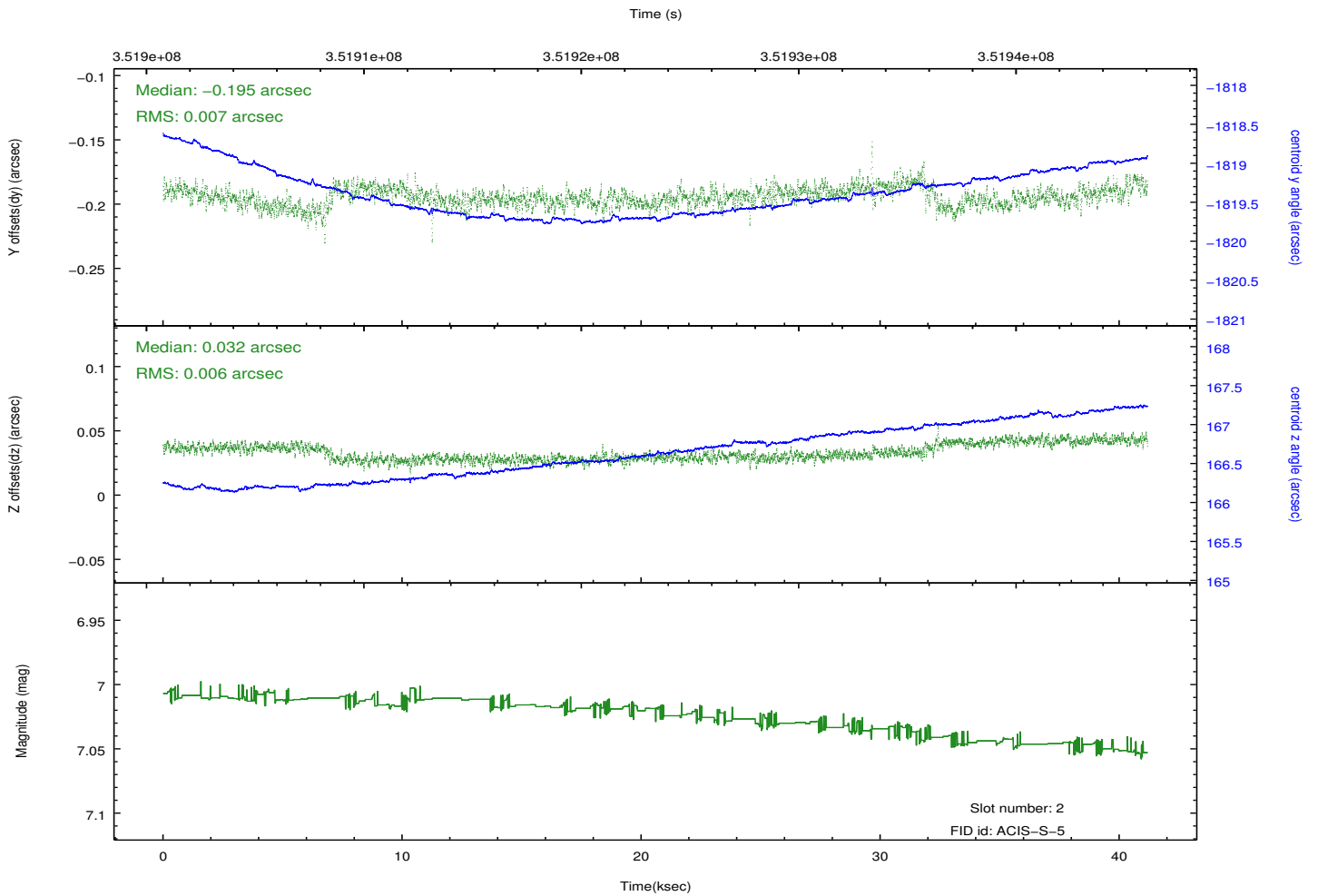
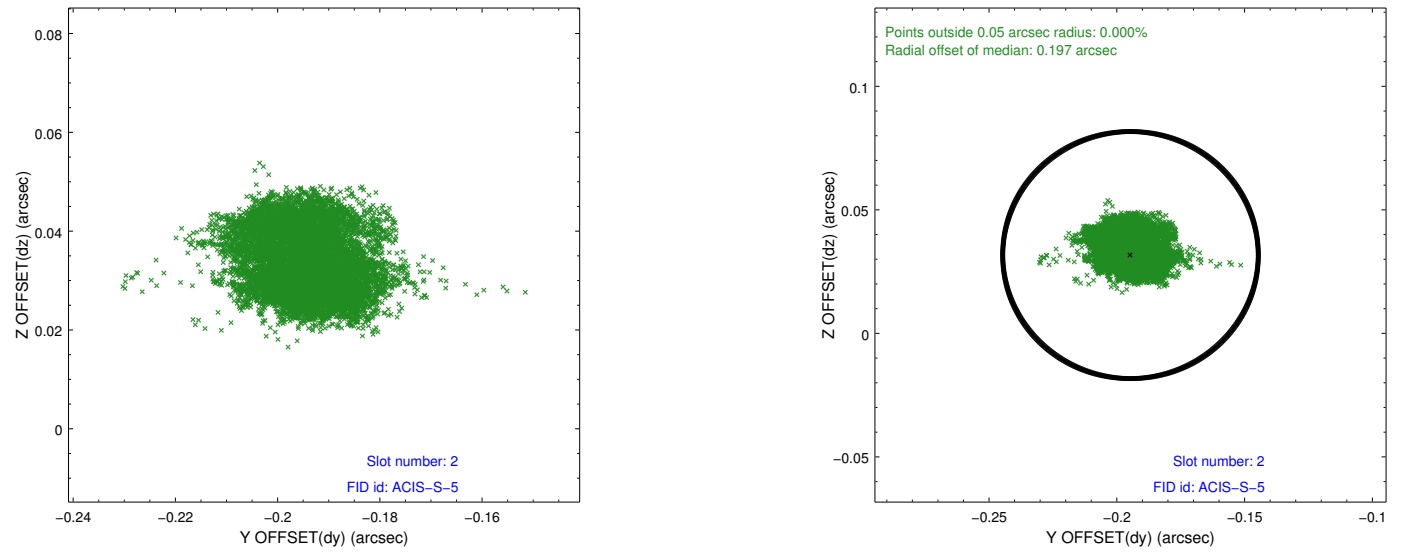
2.5.1 Slot 0



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)	2012.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.1773003

A.2 Comments