

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18224 - L2 Version 1
Chandra X-Ray Center

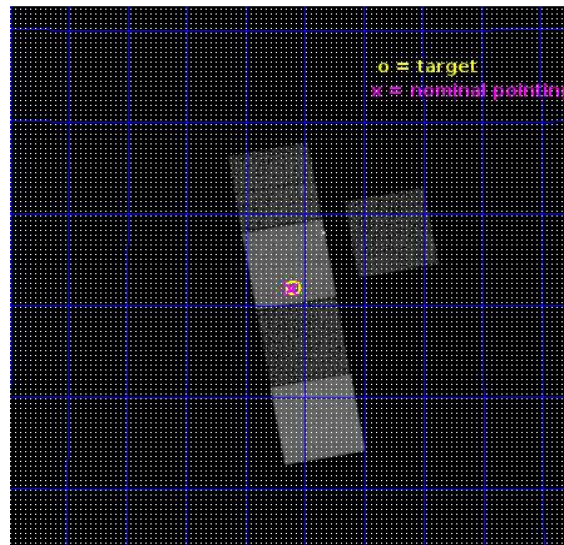
L2 Processing Date : Sep 4 2016

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1 Front

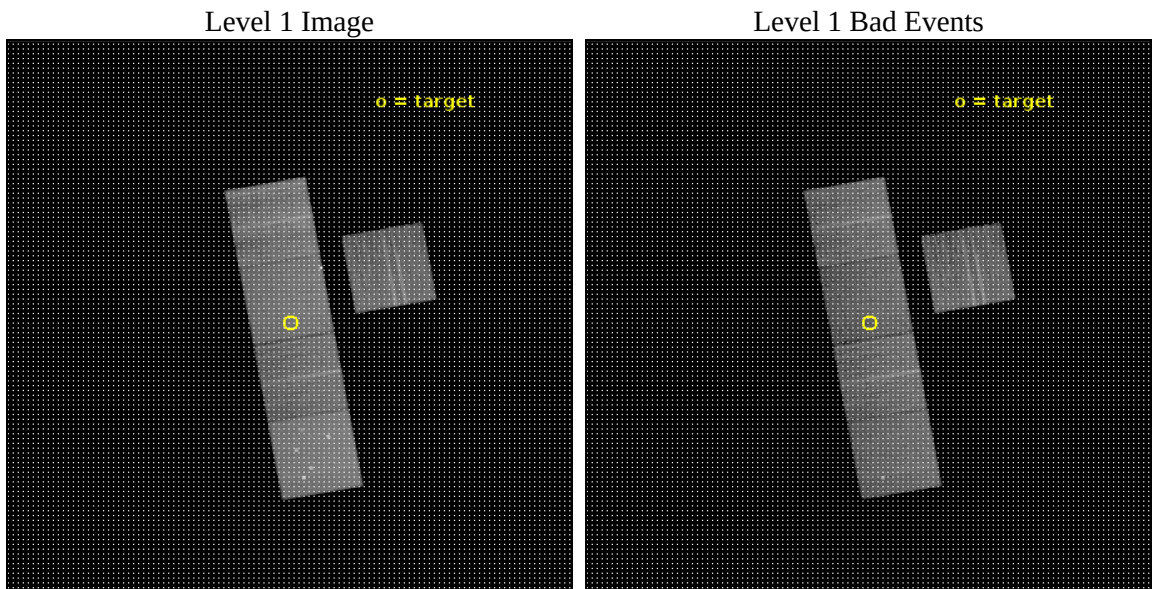
seq_num	801552	Sequence number
obs_id	18224	Observation id
title	Searching for Fossil Group Progenitors Via Strong Gravitational Lensing	Proposal title
observer	Lucas Johnson	Principal investigator
object	CSWA 14	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	260.900417	Observer's specified target RA [deg]
dec_targ	34.199389	Observer's specified target Dec [deg]
ra_nom	260.9035089554	Nominal RA [deg]
dec_nom	34.197378737651	Nominal Dec [deg]
roll_nom	259.83927790324	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19043.30014658	Sum of GTIs [s]
livetime	18794.485410691	Livetime [s]
ontime3	19043.30014658	Sum of GTIs [s]
ontime5	19043.30014658	Sum of GTIs [s]
ontime6	19043.30014658	Sum of GTIs [s]
ontime7	19043.30014658	Sum of GTIs [s]
ontime8	19040.159115672	Sum of GTIs [s]
l2events	203737	Number of level 2 events



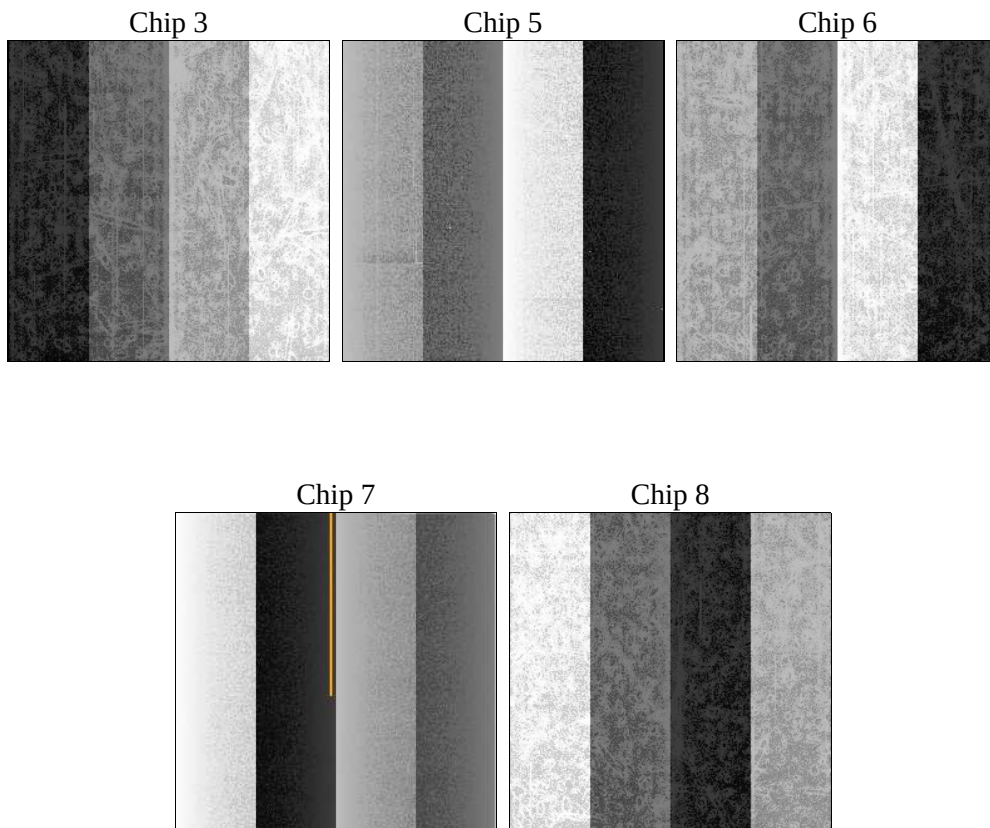
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	19043.30014658	Sum of GTIs [s]
caldsver	4.7.2	 	ontime3	19043.30014658	Sum of GTIs [s]
date	2016-09-04T16:25:18	Date and time of file creation	ontime5	19043.30014658	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	19043.30014658	Sum of GTIs [s]
			ontime7	19043.30014658	Sum of GTIs [s]
			ontime8	19040.159115672	Sum of GTIs [s]
			l1events	774766	Number of level 1 events

2.1.4 Events

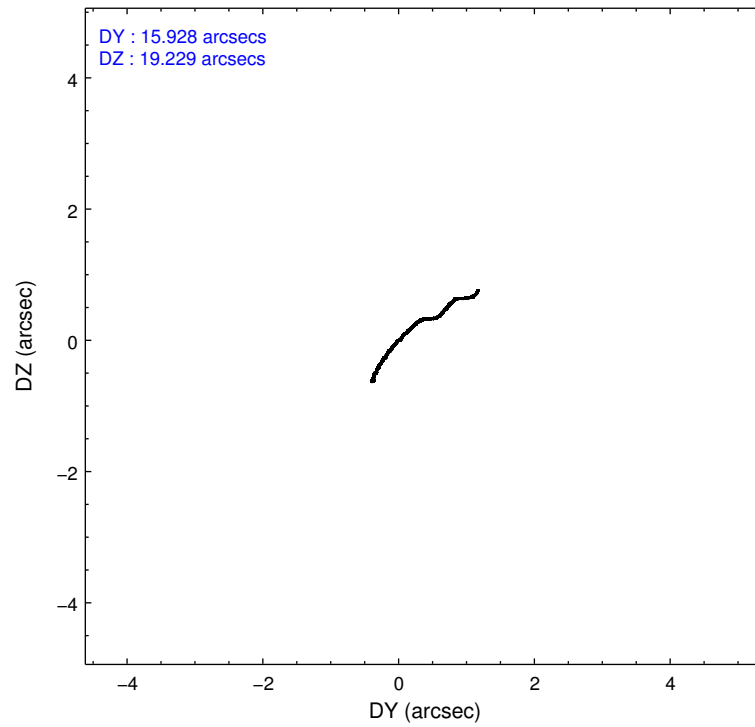
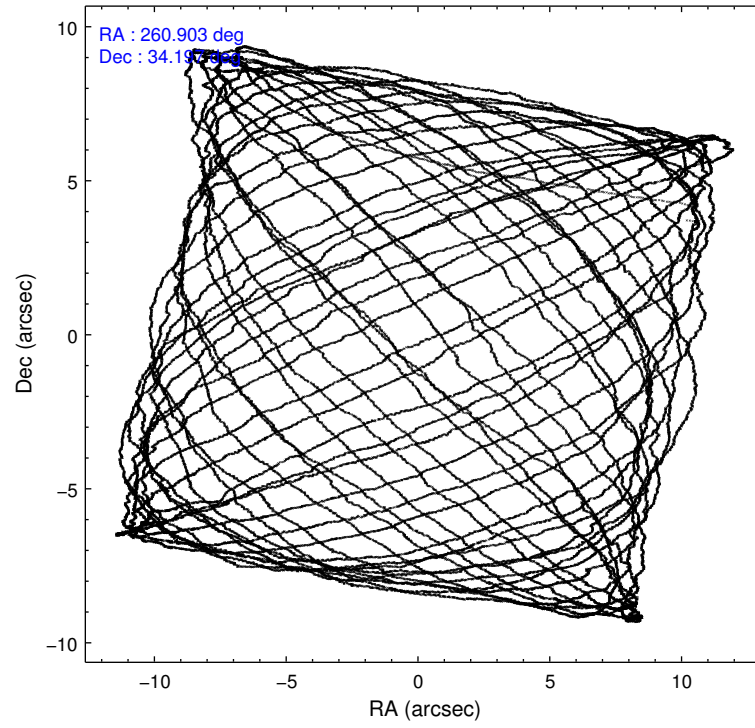
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	117044	205189	123944	167435	161154
rejected events	104402	101976	110076	88439	117680
rejected %	89%	49%	88%	52%	73%

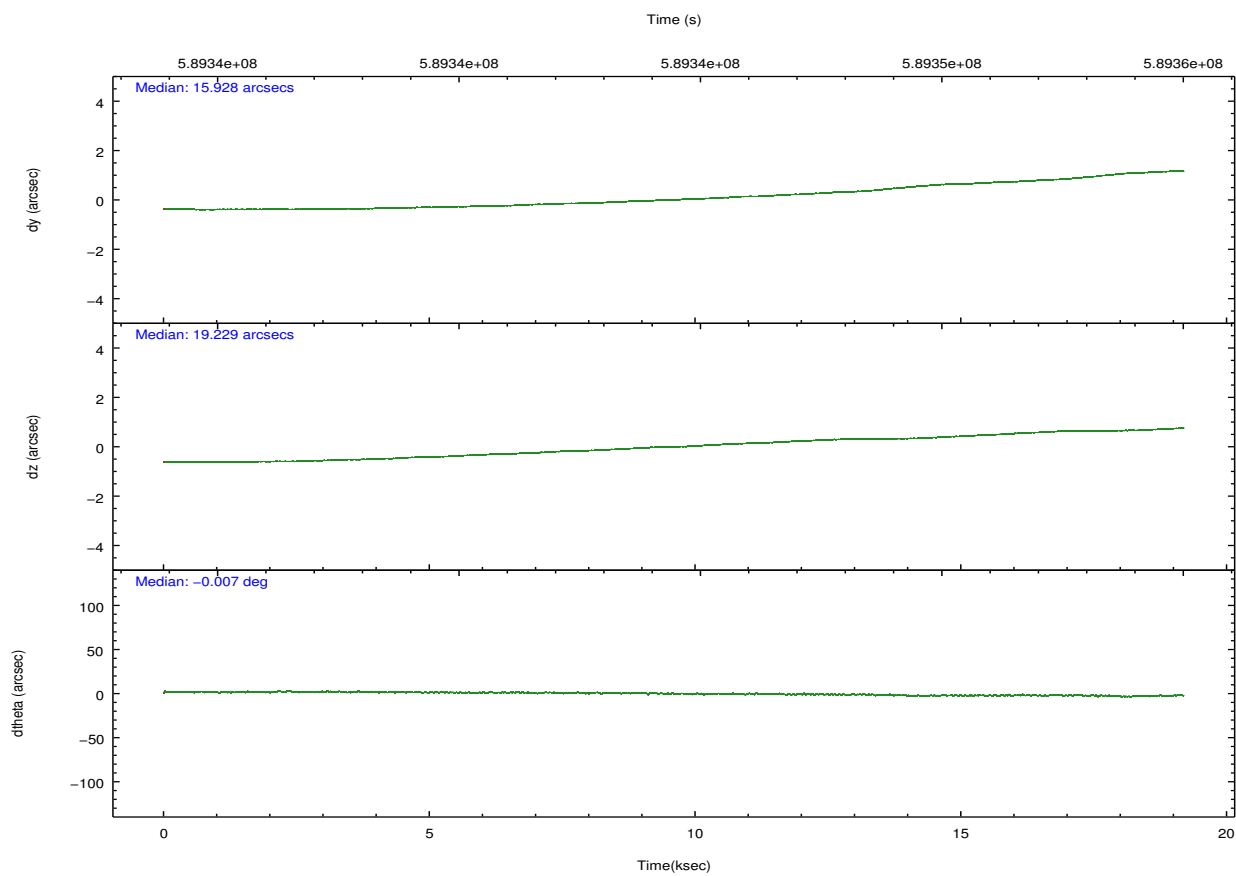
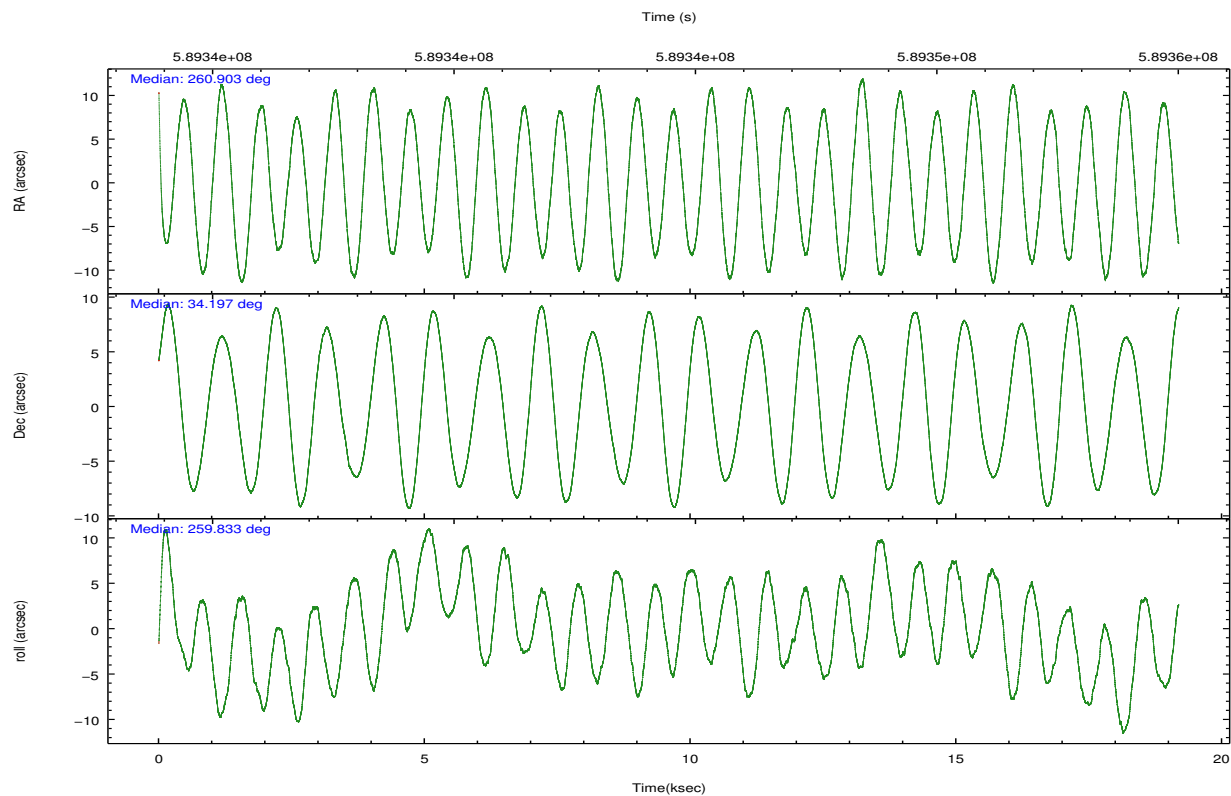
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	4468	15654	4467	8637	12484
	3%	7%	3%	5%	7%
grade 1 events	64	1394	69	306	132
	0%	0%	0%	0%	0%
grade 2 events	2875	31010	3265	16921	10554
	2%	15%	2%	10%	6%
grade 3 events	1338	3134	1439	6782	4443
	1%	1%	1%	4%	2%
grade 4 events	1320	2797	1418	6781	4297
	1%	1%	1%	4%	2%
grade 5 events	5728	13732	5915	16135	9010
	4%	6%	4%	9%	5%
grade 6 events	2645	50657	3283	39895	11724
	2%	24%	2%	23%	7%
grade 7 events	98606	86811	104088	71978	108510
	84%	42%	83%	42%	67%

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	260.891834	260.9035089553985	CCD I2 on	N	N
[deg] Pointing Dec	34.223052	34.19737873765092	CCD I3 on	Y	Y
[deg] Pointing Roll	259.689218	259.8392779032374	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	Y
[s] Observation start time (MET)	589335041.184000	589334095.05775	CCD S5 on	N	N
Observation start date	2016-09-04T00:09:33	2016-09-03T23:54:55	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	589354041.184000	589355483.22148	On-chip summing requested	N	N
Observation end date	2016-09-04T05:26:13	2016-09-04T05:51:23	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



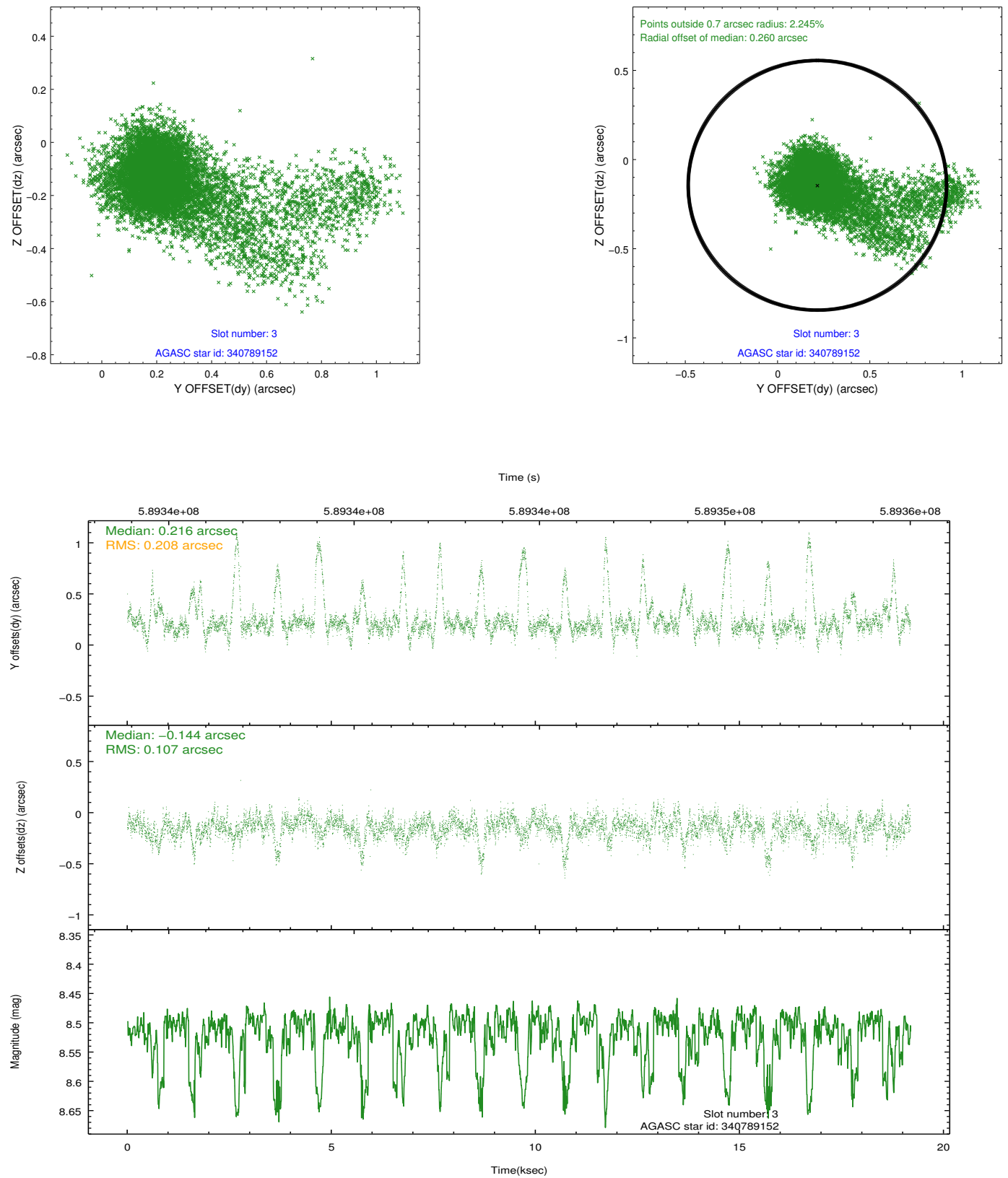


Slot Statistics

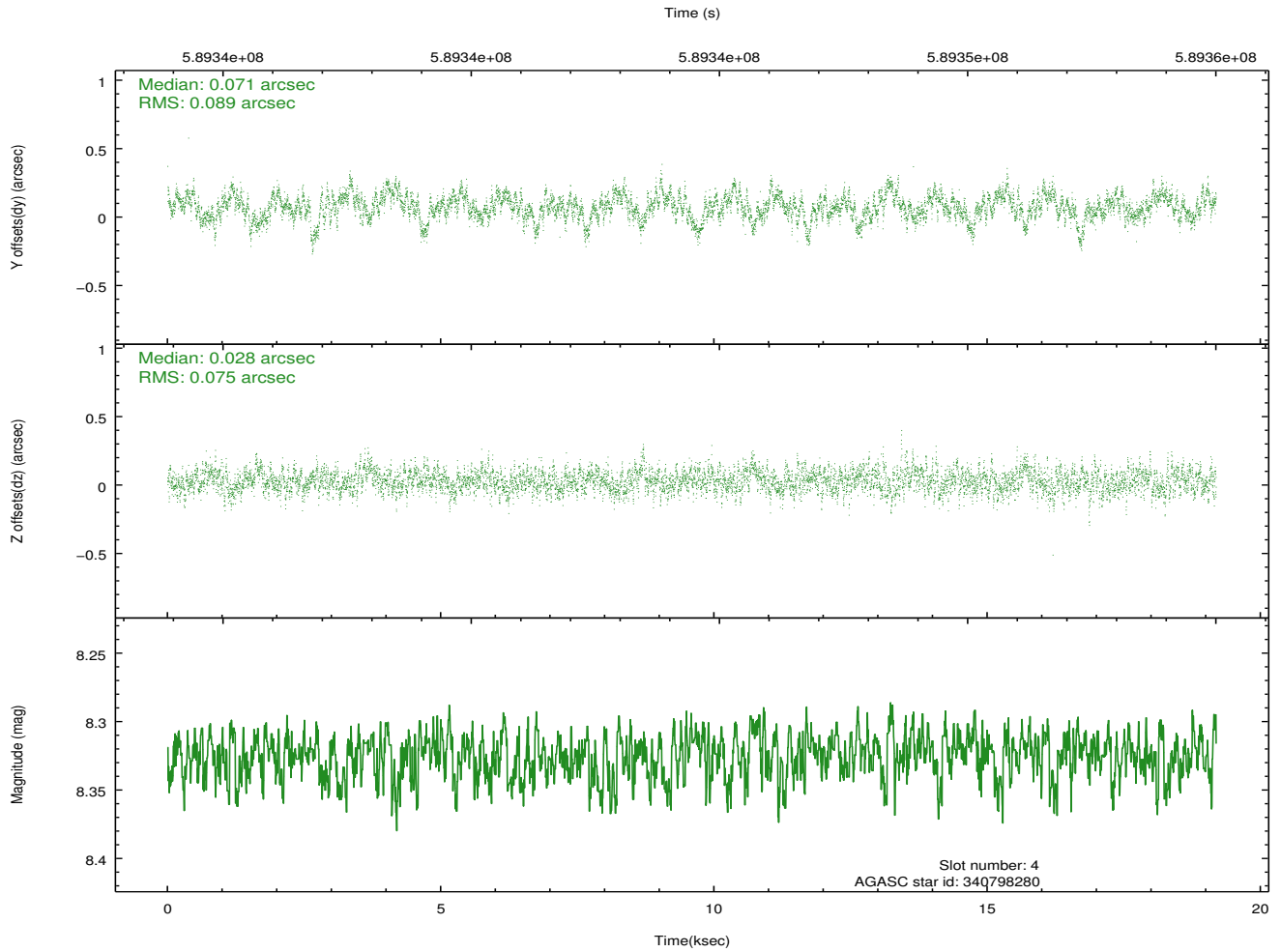
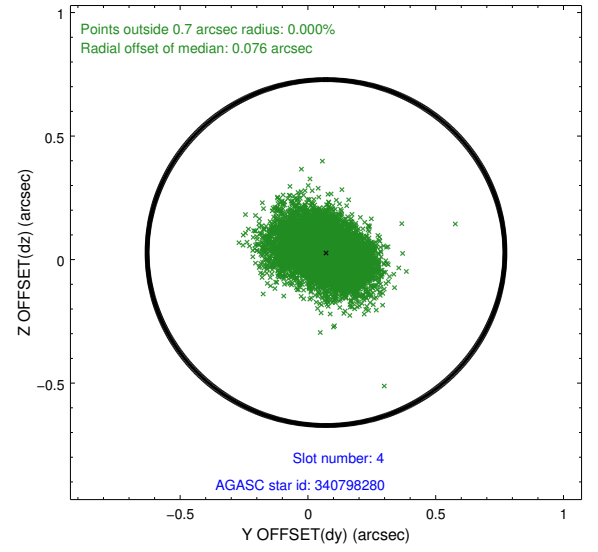
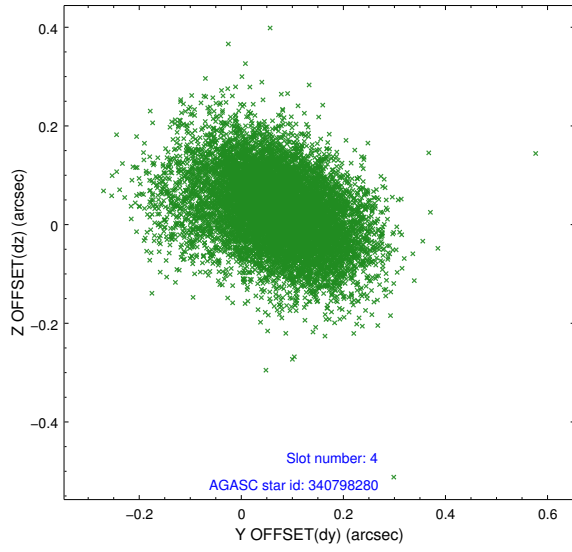
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.13	4680	0.118	-0.039	0.019	0.055	0.000000	0.000000	927.14	-1736.32
1	FID		ACIS-S-5	7.15	4680	-0.274	0.059	0.010	0.019	0.000000	0.000000	-1822.20	161.04
2	FID		ACIS-S-6	7.28	4680	0.134	-0.006	0.021	0.046	0.000000	0.000000	392.41	805.25
3	GUIDE	used	340789152	8.52	9355	0.216	-0.144	0.156	0.576	260.295598	33.850992	1632.51	-1514.66
4	GUIDE	used	340798280	8.32	9359	0.071	0.028	0.122	0.206	260.680148	34.175595	280.90	-589.58
5	GUIDE	used	342497656	9.04	9350	0.154	0.235	0.114	0.202	261.576765	34.687385	-2014.74	1694.13
6	GUIDE	used	342499576	8.06	9355	-0.079	0.086	0.098	0.180	261.177642	34.798732	-2191.45	460.50
7	GUIDE	used	342507904	8.37	9354	-0.403	-0.196	0.116	0.194	261.477418	33.997852	479.34	1863.99

2.4 Star Slots

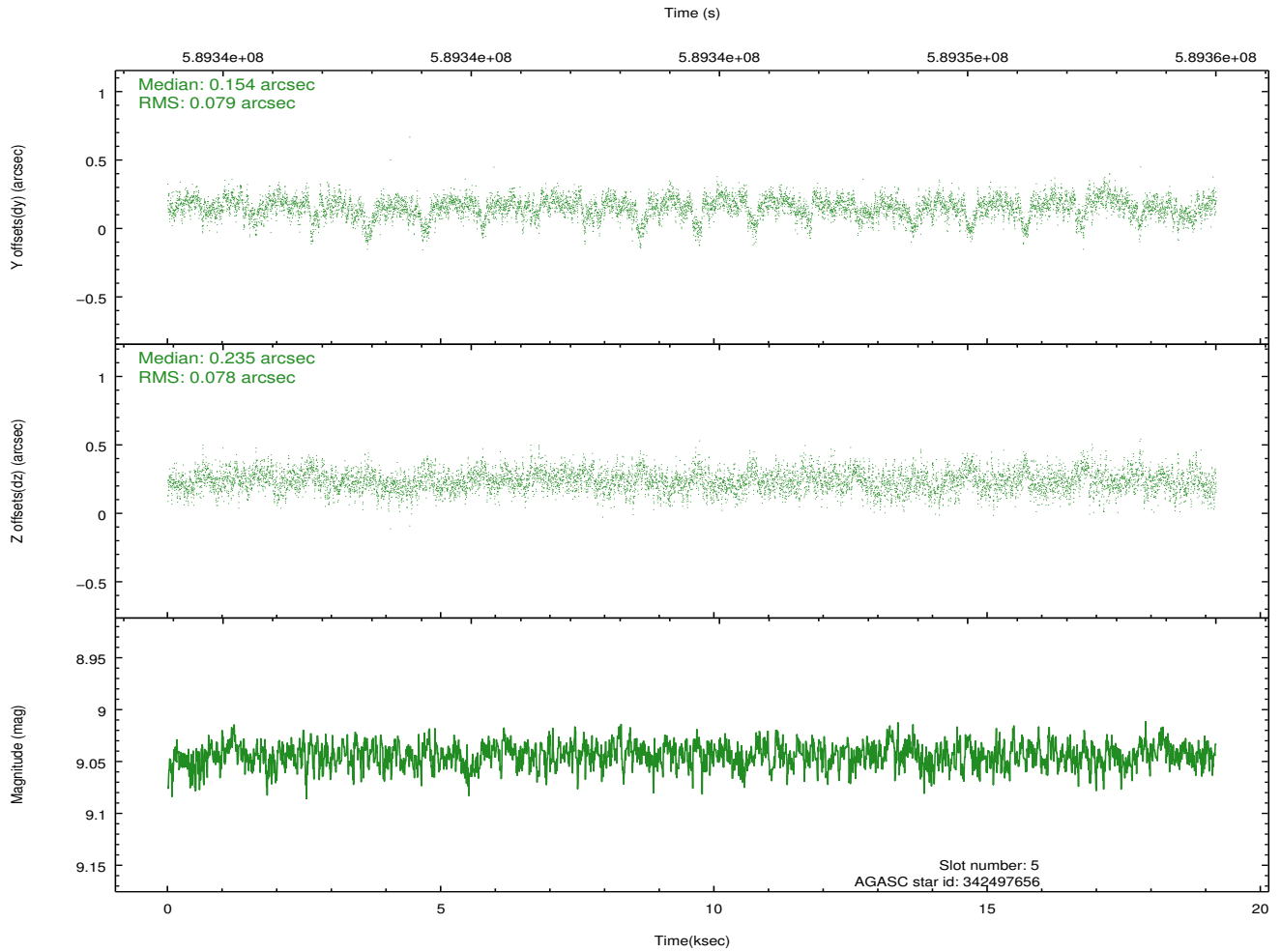
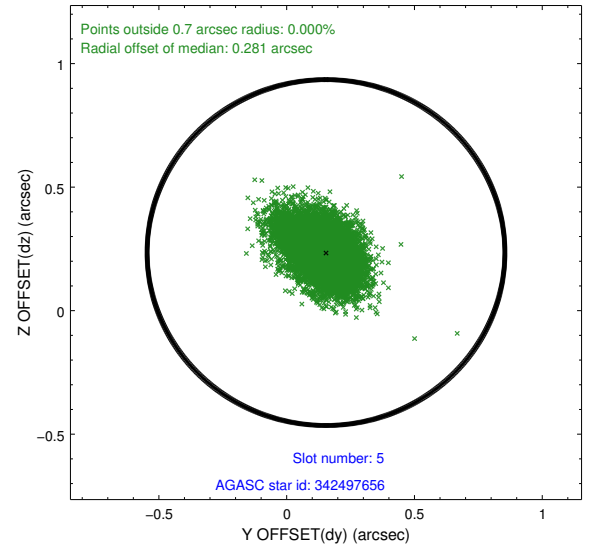
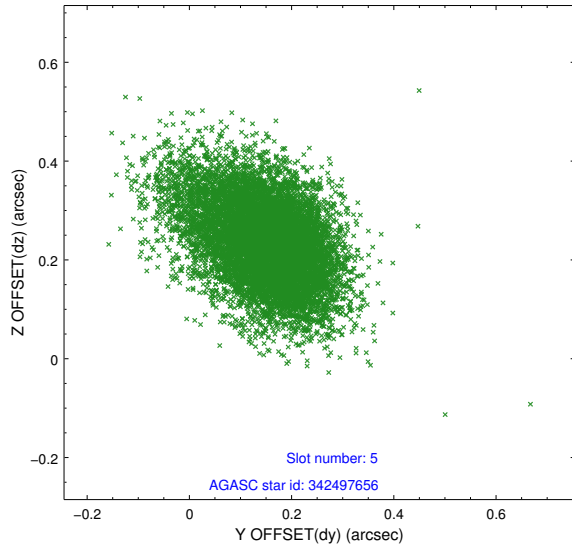
2.4.1 Slot 3



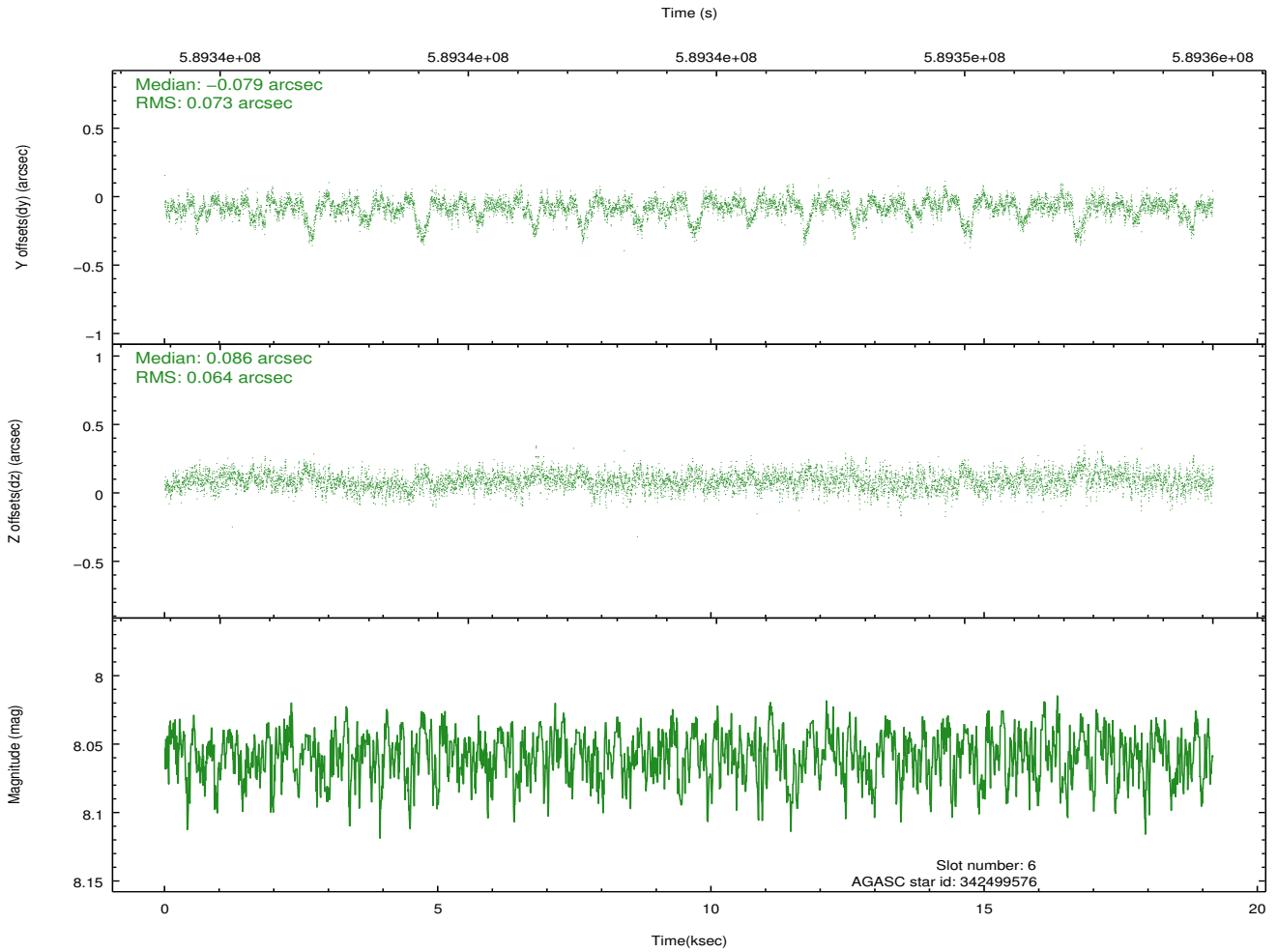
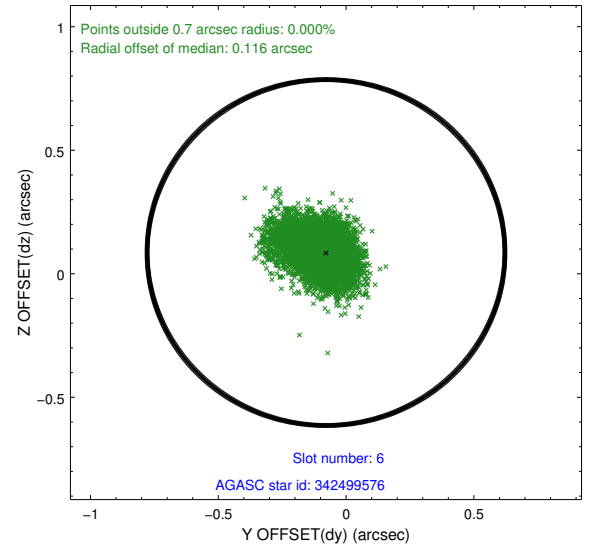
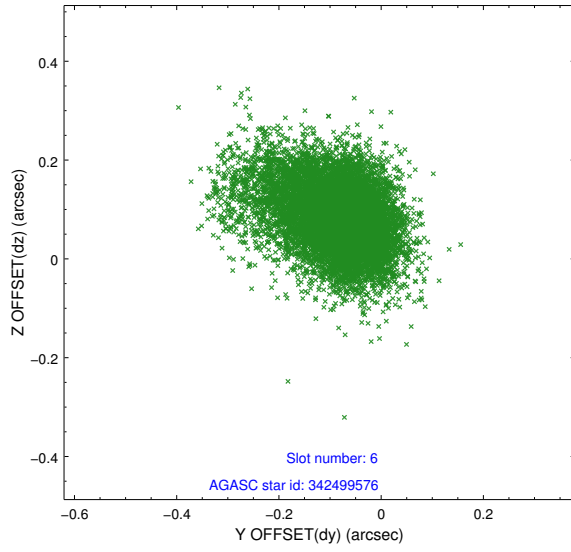
2.4.2 Slot 4



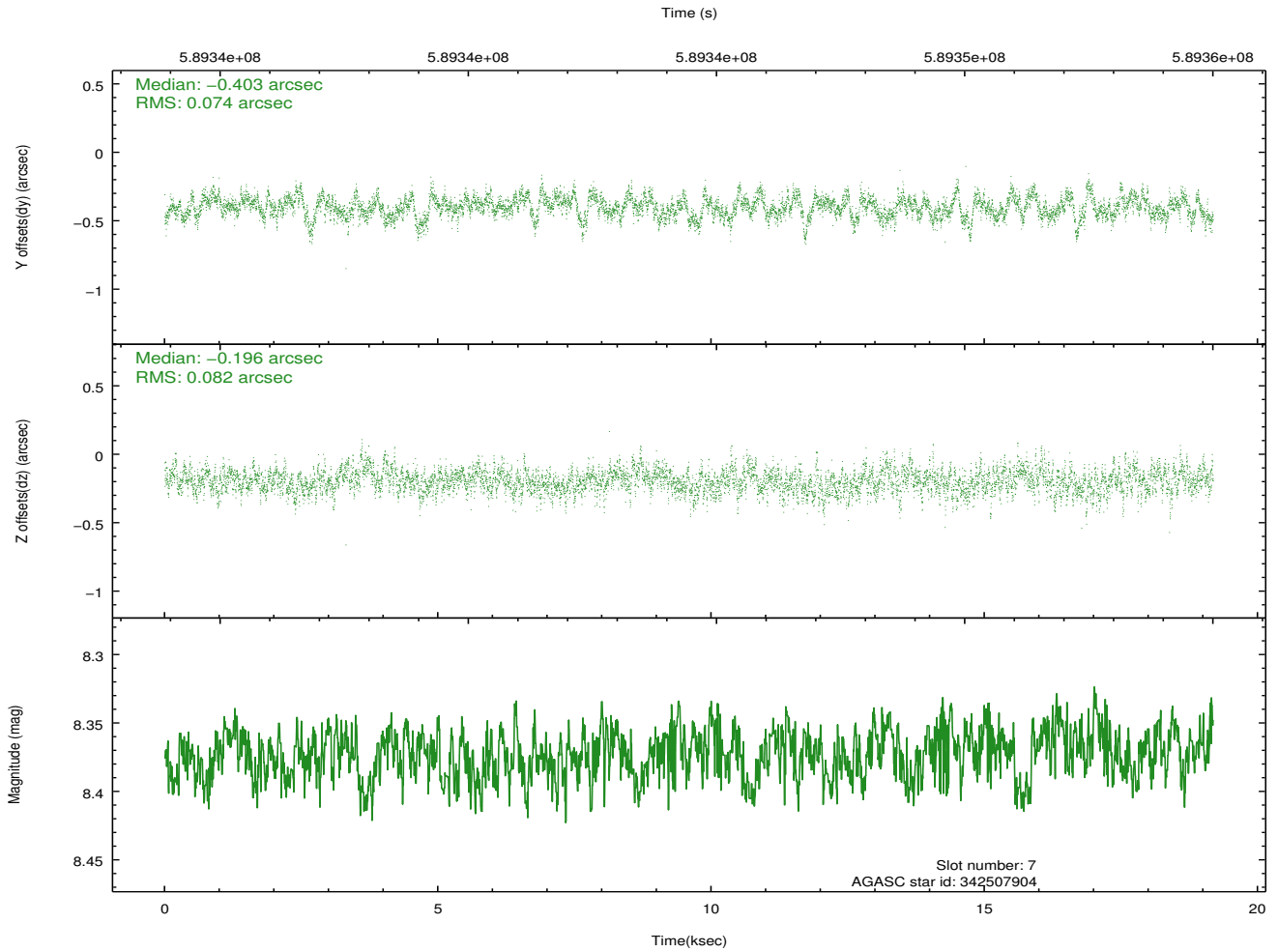
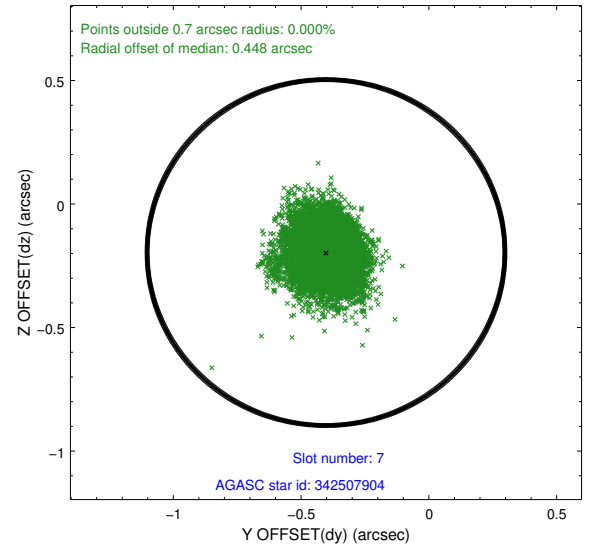
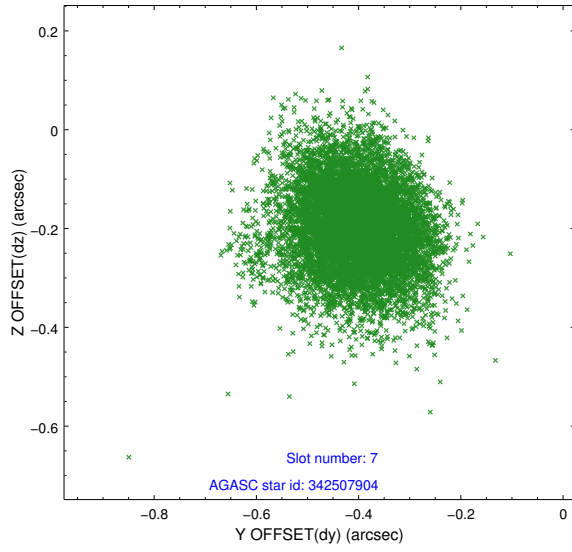
2.4.3 Slot 5



2.4.4 Slot 6

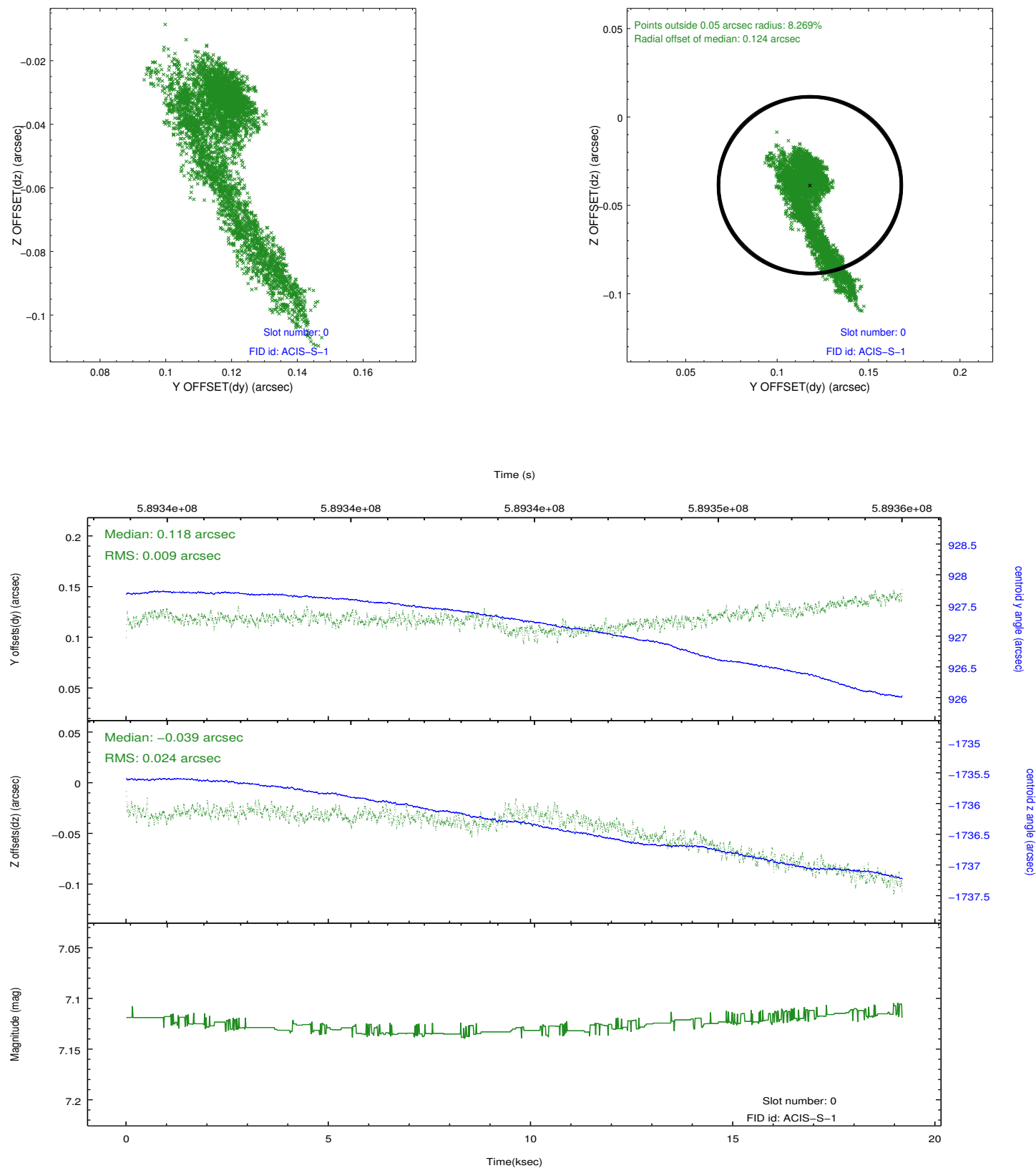


2.4.5 Slot 7

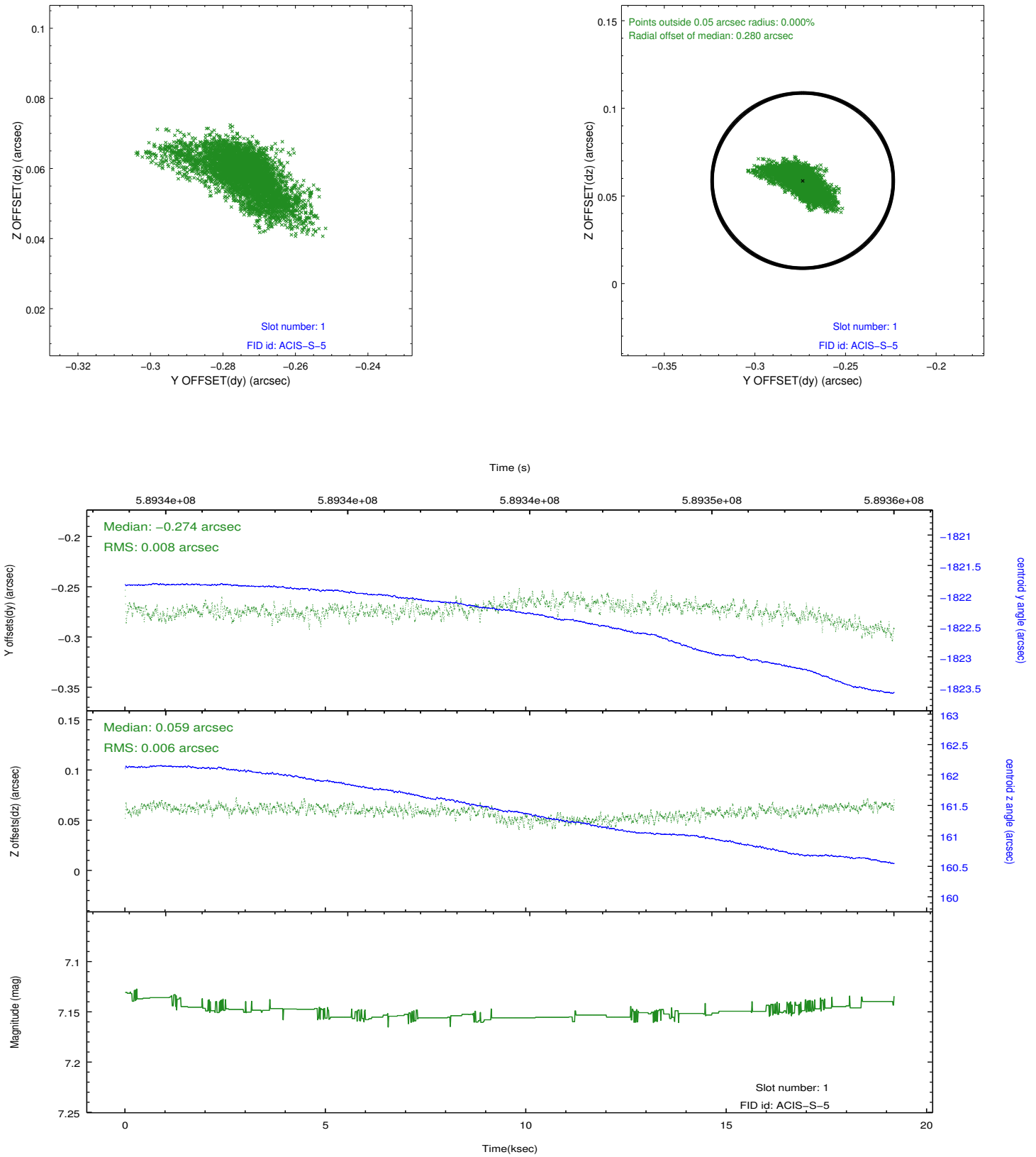


2.5 FID Slots

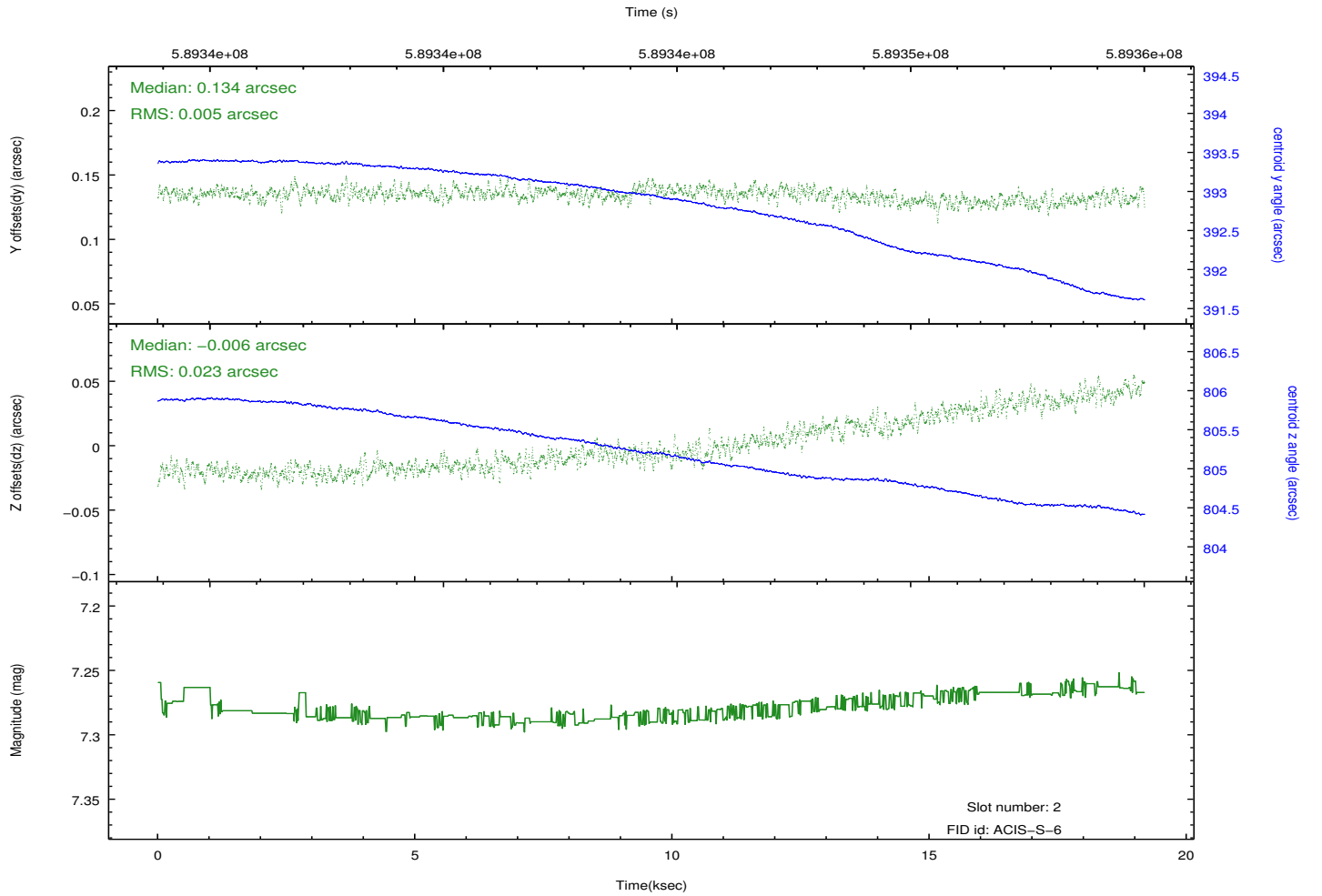
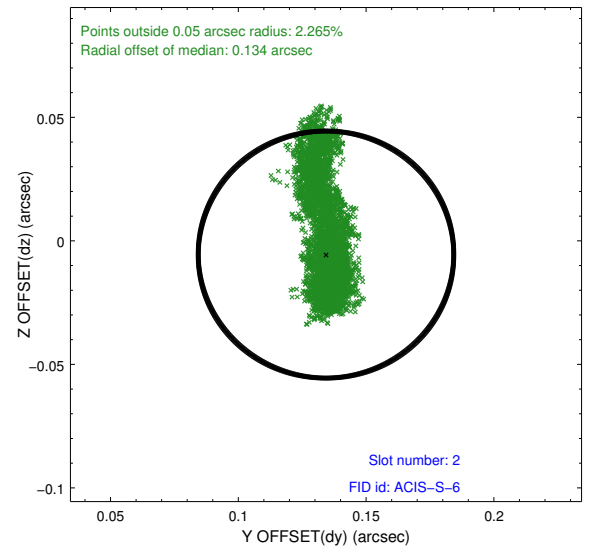
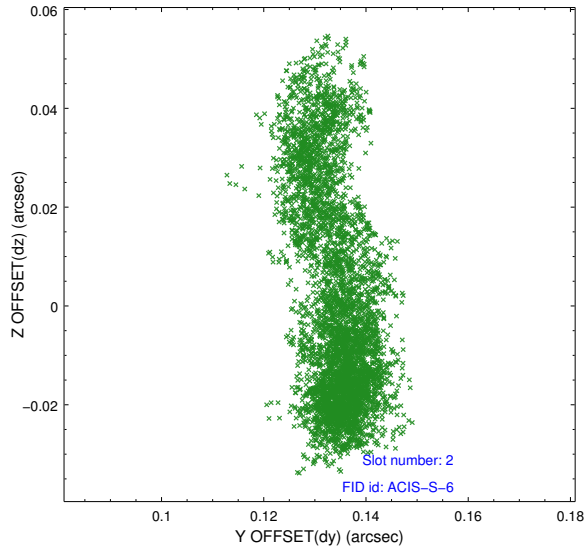
2.5.1 Slot 0



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)	2016.09.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.04330014658

A.2 Comments

Joint proposal with HST.