

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 19508 - L2 Version 1
Chandra X-Ray Center

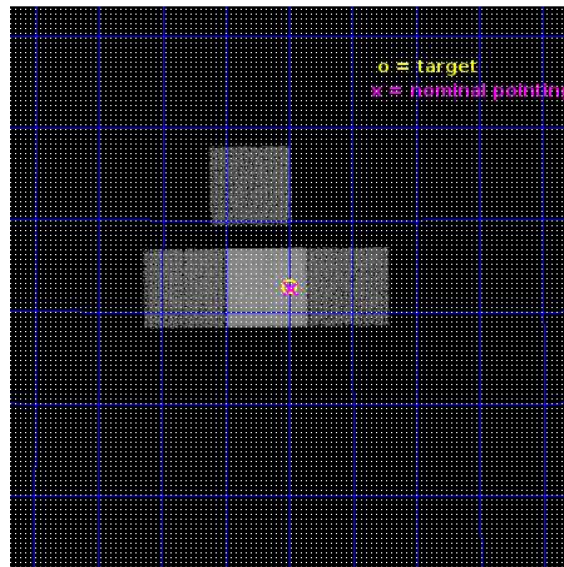
L2 Processing Date : Sep 12 2016

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1 Front

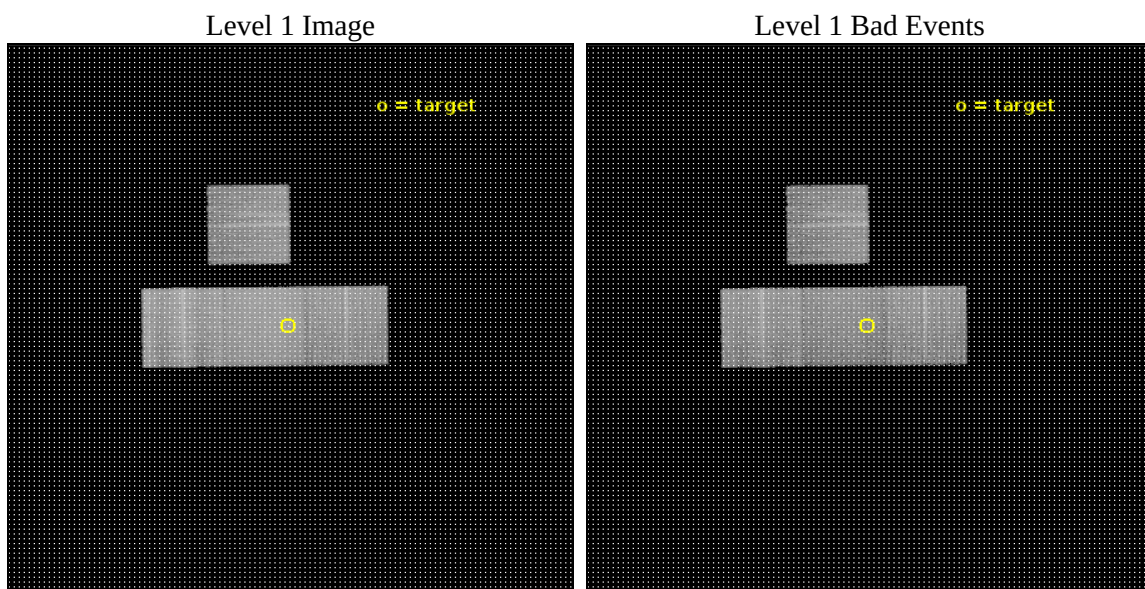
seq_num	703356	Sequence number
obs_id	19508	Observation id
title	Extreme rotation measures and high-redshift clusters	Proposal titl
observer	Mark Birkinshaw	Principal investigator
object	4C +27.50	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.499583	Observer's specified target RA [deg]
dec_targ	27.546306	Observer's specified target Dec [deg]
ra_nom	350.4956881981	Nominal RA [deg]
dec_nom	27.542312628712	Nominal Dec [deg]
roll_nom	179.2748219108	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20069.038303614	Sum of GTIs [s]
livetime	19806.821543566	Livetime [s]
ontime3	20062.674192905	Sum of GTIs [s]
ontime6	20068.99726367	Sum of GTIs [s]
ontime7	20069.038303614	Sum of GTIs [s]
ontime8	20068.915183663	Sum of GTIs [s]
l2events	117257	Number of level 2 events



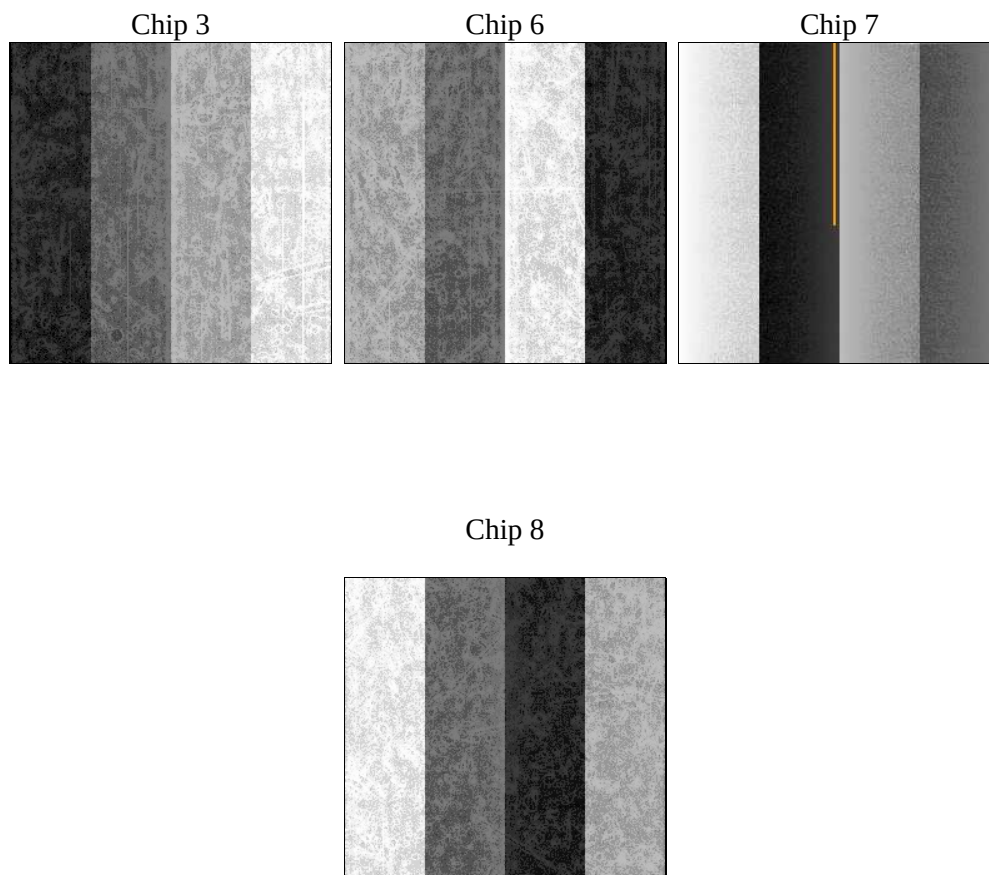
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	20069.038303614	Sum of GTIs [s]
caldsver	4.7.2	 	ontime3	20062.674192905	Sum of GTIs [s]
date	2016-09-12T10:34:00	Date and time of file creation	ontime6	20068.99726367	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	20069.038303614	Sum of GTIs [s]
			ontime8	20068.915183663	Sum of GTIs [s]
			l1events	595838	Number of level 1 events

2.1.4 Events

	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	122230	130069	172135	171404
rejected events	108991	114584	94187	124347
rejected %	89%	88%	54%	72%

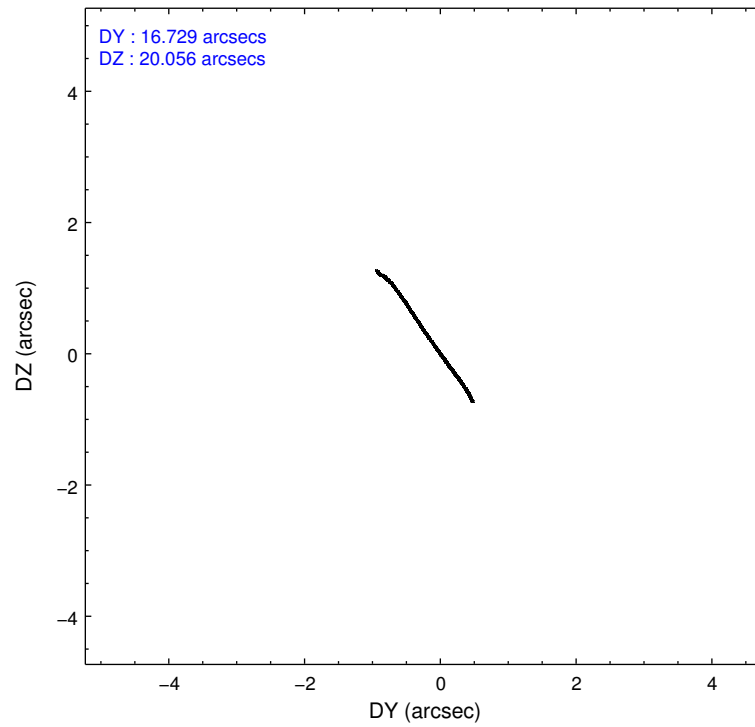
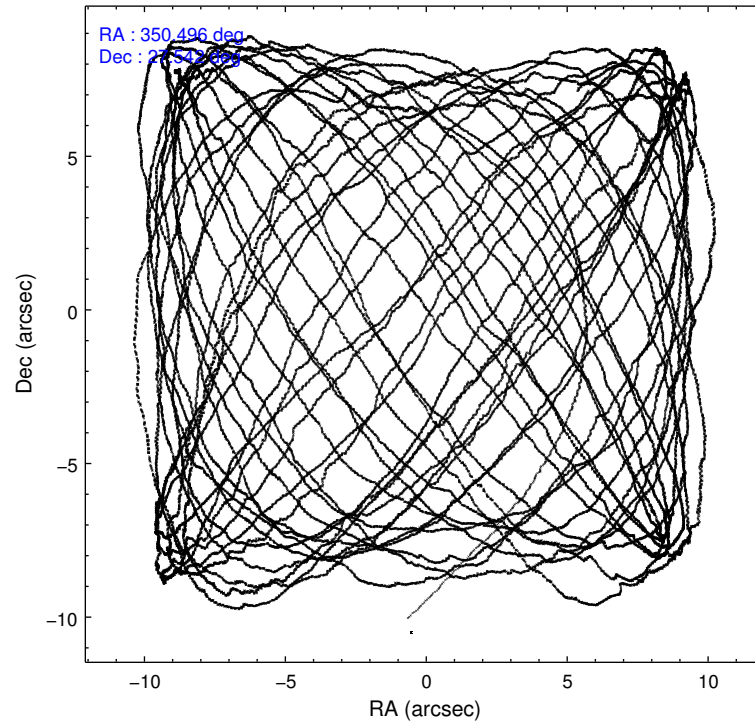
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	4643	5483	7468	13602
	3%	4%	4%	7%
grade 1 events	73	78	230	148
	0%	0%	0%	0%
grade 2 events	2969	3541	16705	11364
	2%	2%	9%	6%
grade 3 events	1373	1510	6548	4845
	1%	1%	3%	2%
grade 4 events	1386	1510	6454	4574
	1%	1%	3%	2%
grade 5 events	6331	6396	17258	9536
	5%	4%	10%	5%
grade 6 events	2872	3446	40789	12680
	2%	2%	23%	7%
grade 7 events	102583	108105	76683	114655
	83%	83%	44%	66%

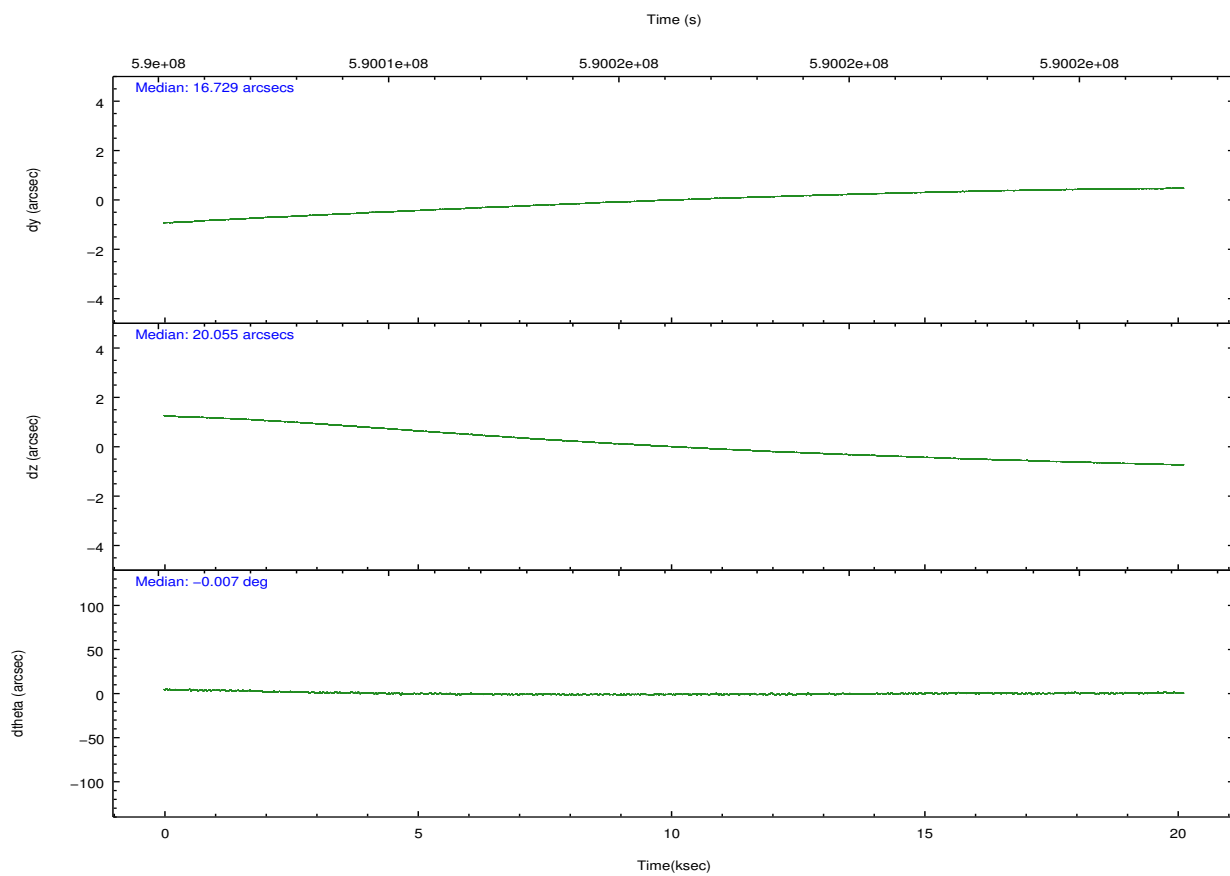
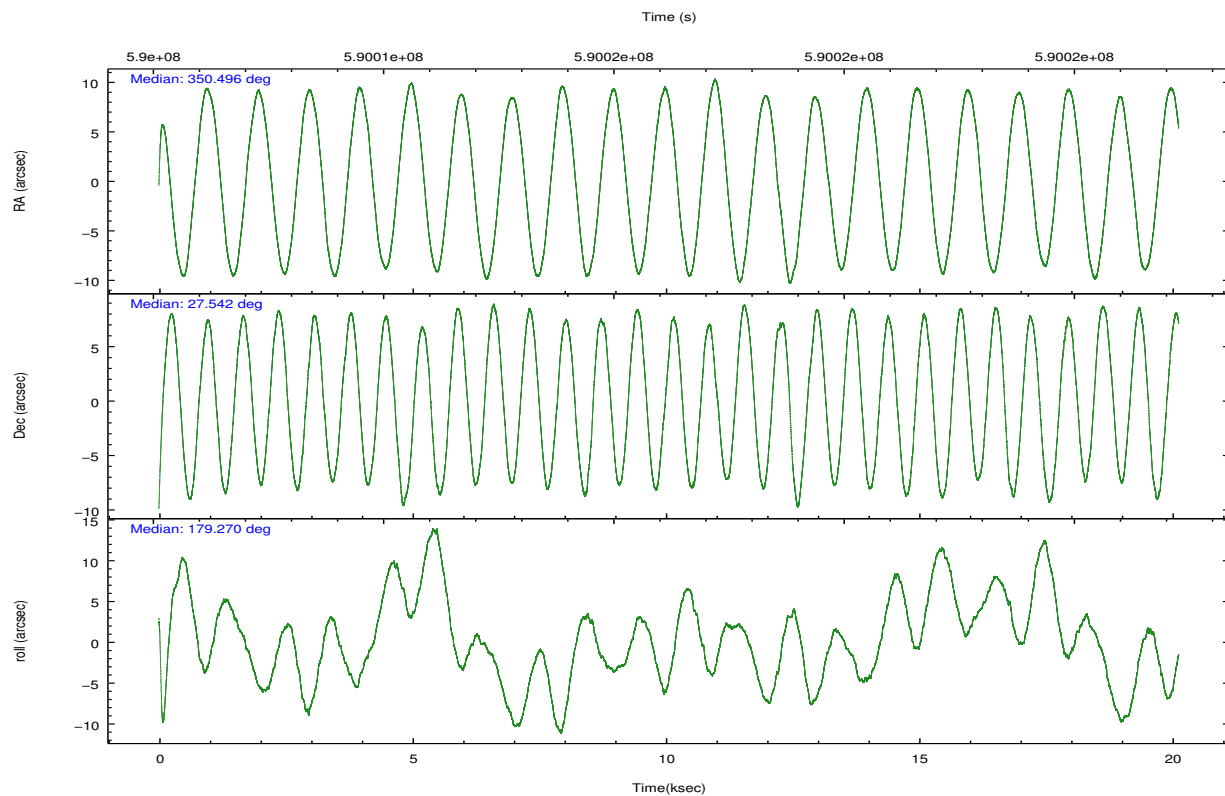
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-3678	ACIS-3678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	350.522484	350.4956881981034
[deg] Pointing Dec	27.556032	27.54231262871246
[deg] Pointing Roll	179.105794	179.274821910796
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	590006253.184000	590005118.5213701
Observation start date	2016-09-11T18:36:25	2016-09-11T18:18:38
[s] Observation end time (MET)	590026253.184000	590027212.91014
Observation end date	2016-09-12T00:09:45	2016-09-12T00:26:52
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	O1	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	O2	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



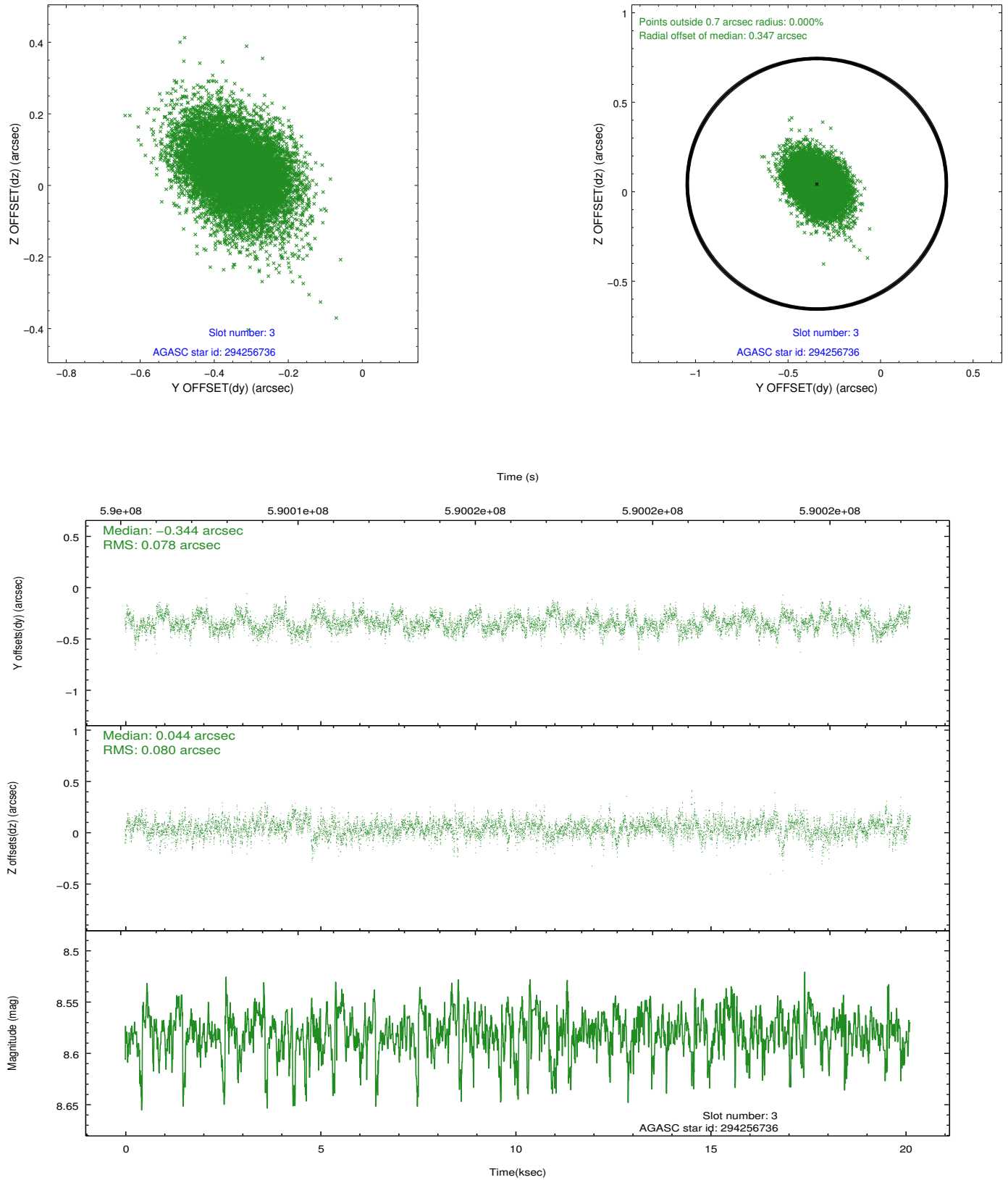


Slot Statistics

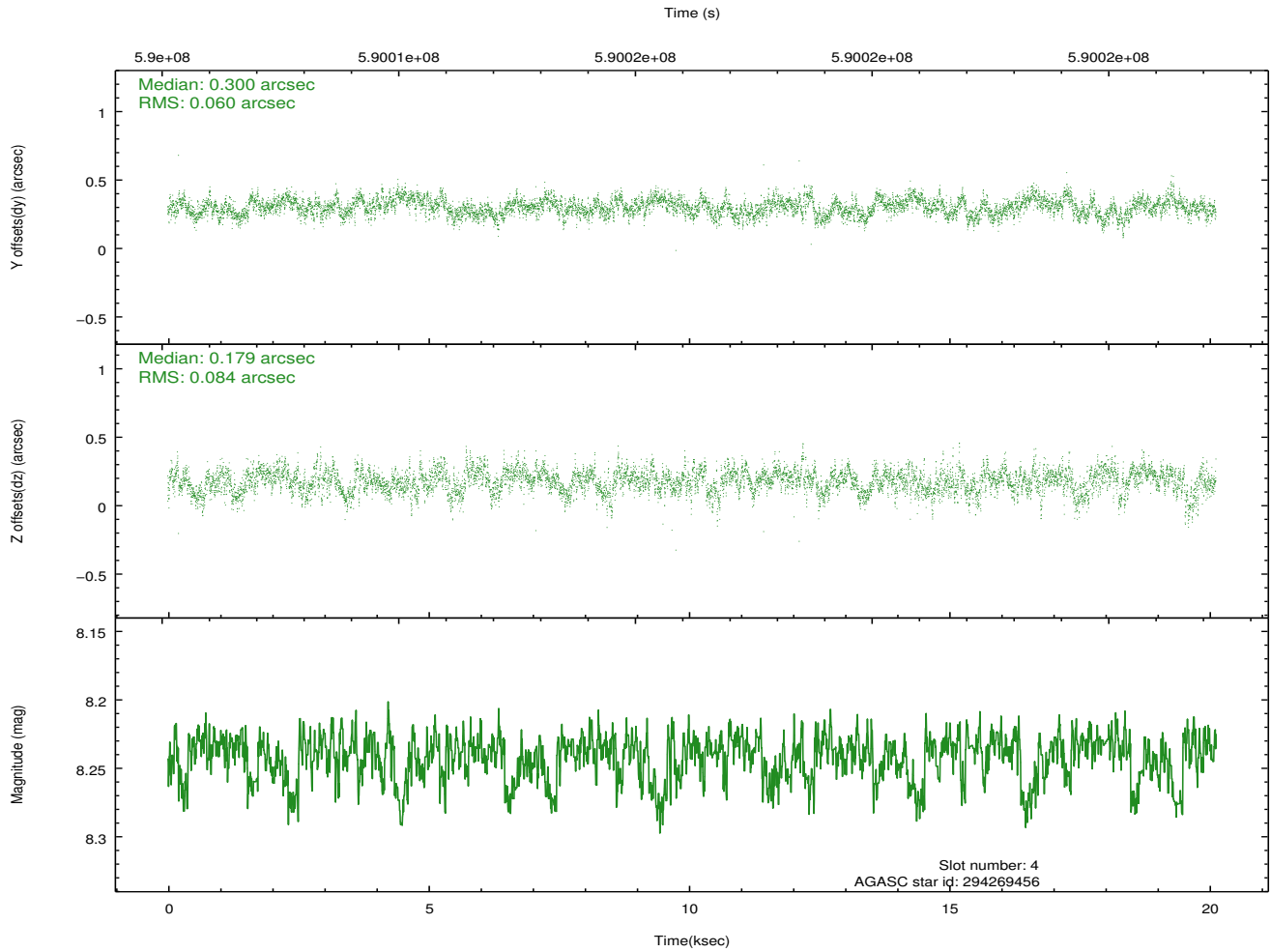
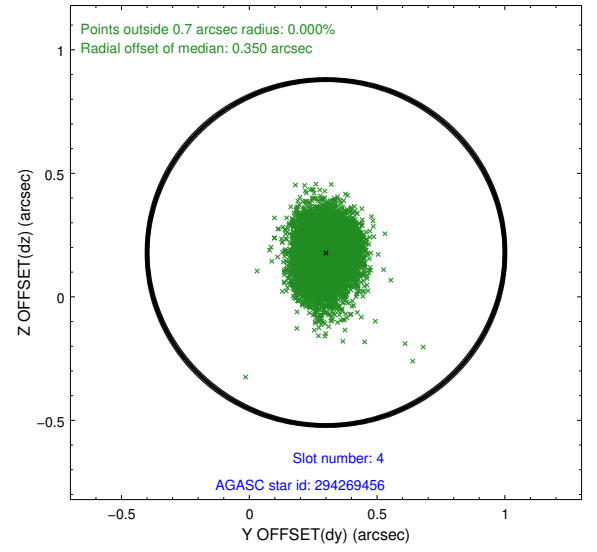
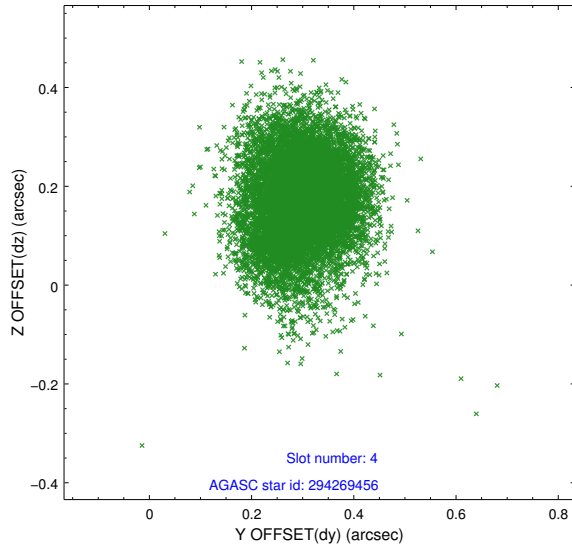
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.07	4910	0.313	0.006	0.018	0.027	0.000000	0.000000	2143.99	167.07
1	FID		ACIS-S-5	7.08	4910	-0.354	-0.001	0.021	0.033	0.000000	0.000000	-1822.64	160.38
2	FID		ACIS-S-6	7.20	4910	0.015	0.009	0.013	0.020	0.000000	0.000000	391.72	804.23
3	GUIDE	used	294256736	8.58	9817	-0.344	0.044	0.118	0.193	350.067211	27.799064	1463.59	-854.39
4	GUIDE	used	294269456	8.24	9812	0.300	0.179	0.107	0.181	350.586542	28.124090	-170.19	-2047.39
5	GUIDE	used	294269640	8.97	9810	0.445	0.118	0.116	0.196	350.739413	28.051338	-660.23	-1794.07
6	GUIDE	used	294264208	7.80	9819	-0.303	-0.540	0.106	0.181	349.902440	27.490431	1976.89	263.63
7	GUIDE	used	294781728	8.51	9815	-0.103	0.205	0.112	0.181	350.288305	28.233411	781.96	-2426.58

2.4 Star Slots

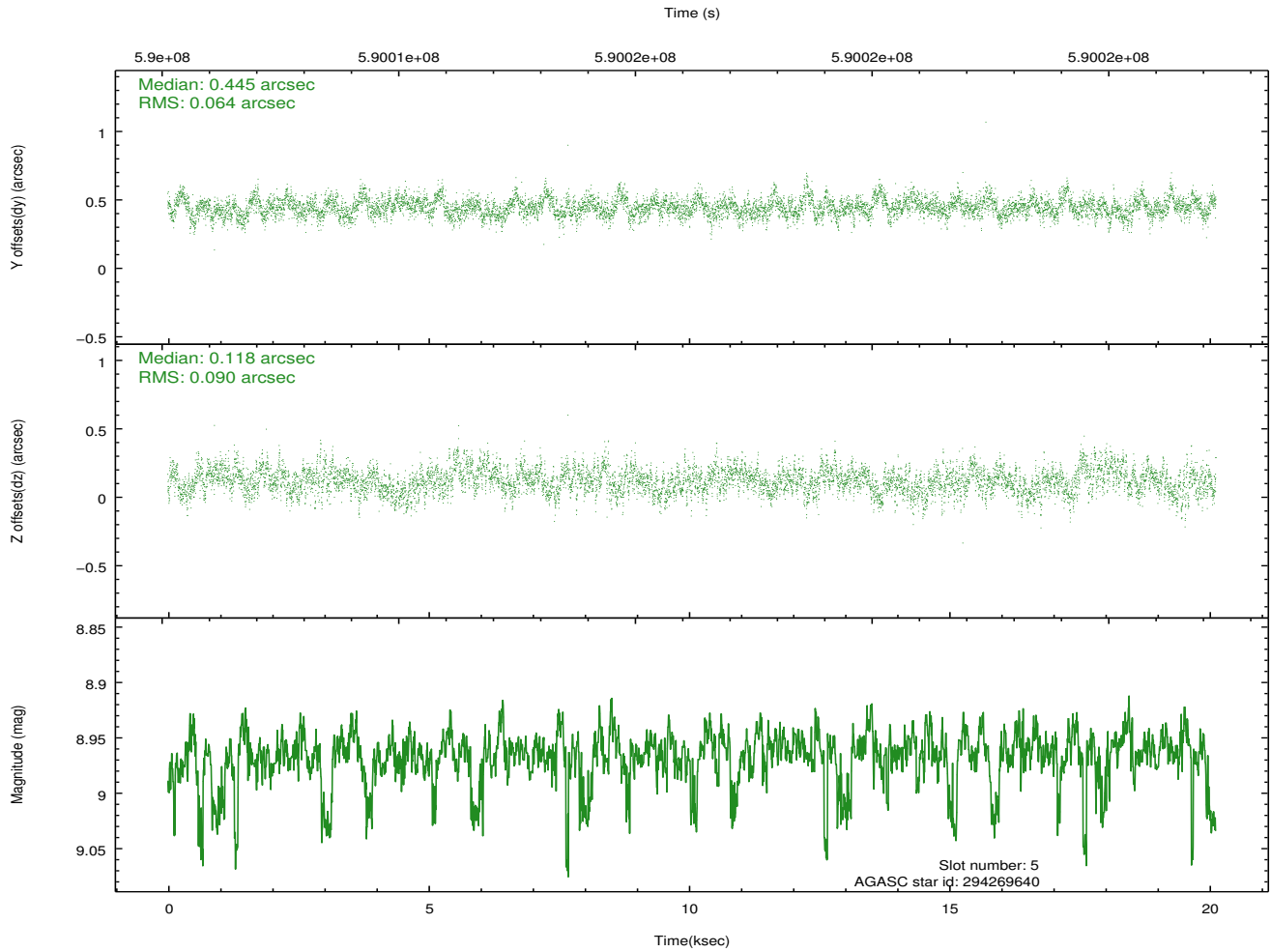
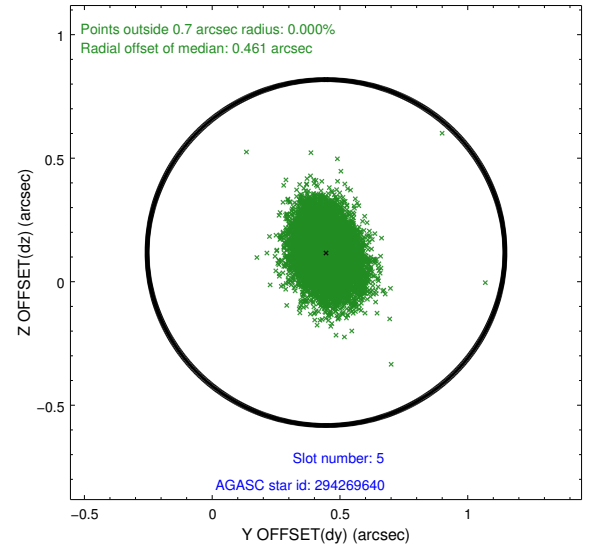
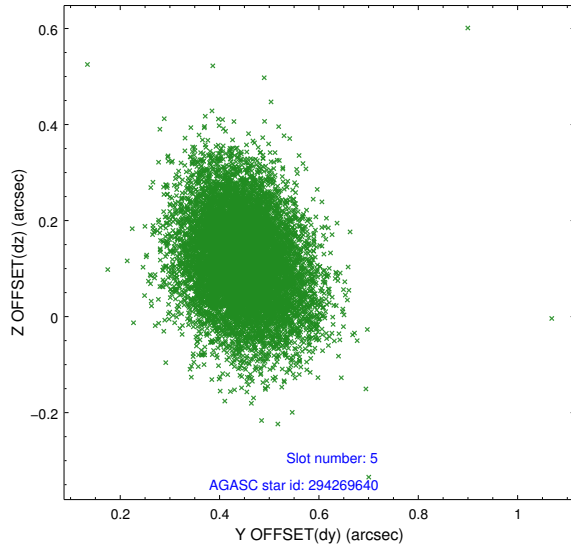
2.4.1 Slot 3



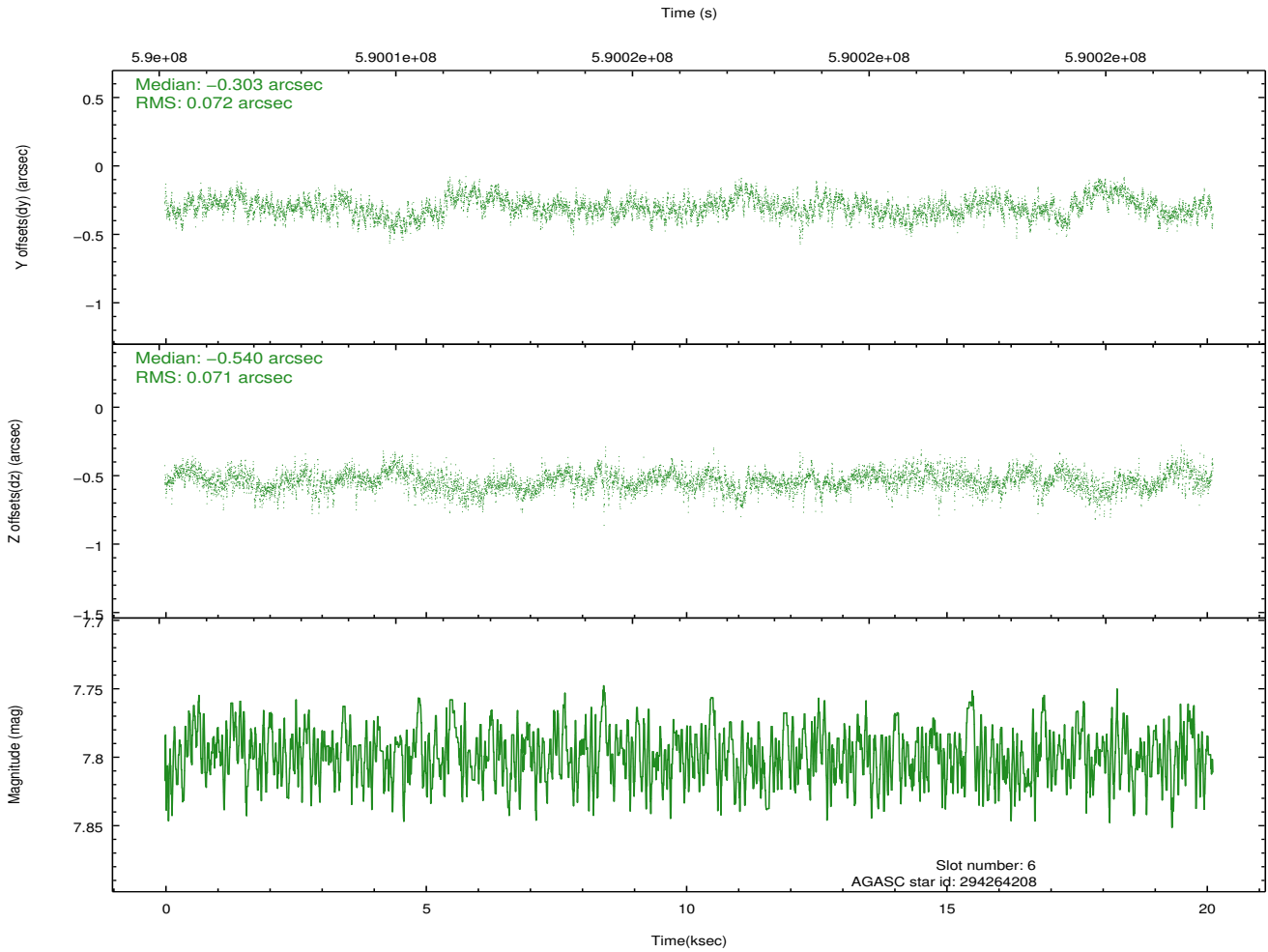
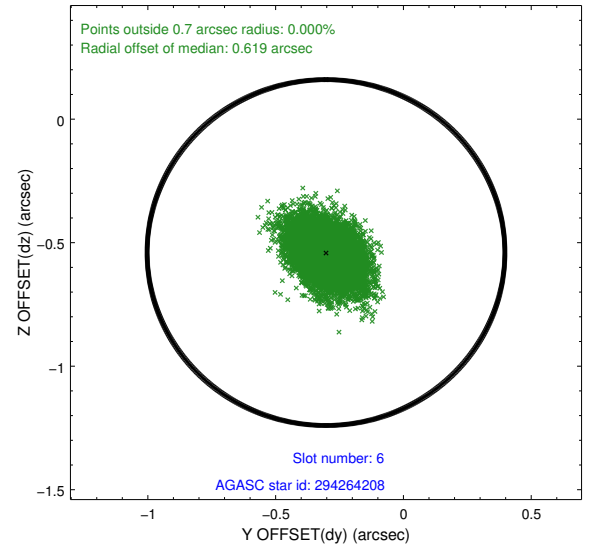
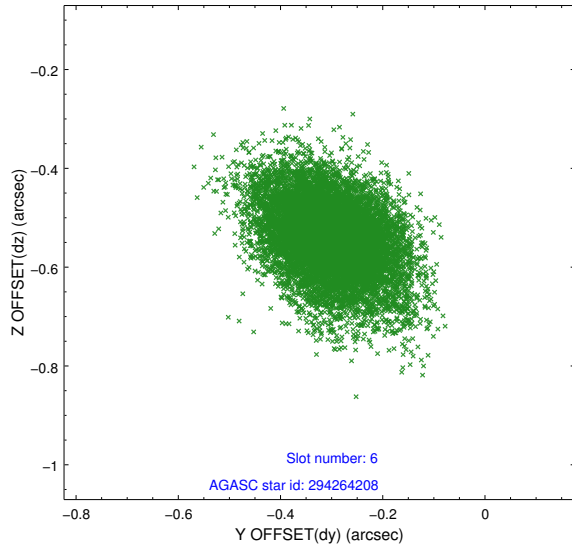
2.4.2 Slot 4



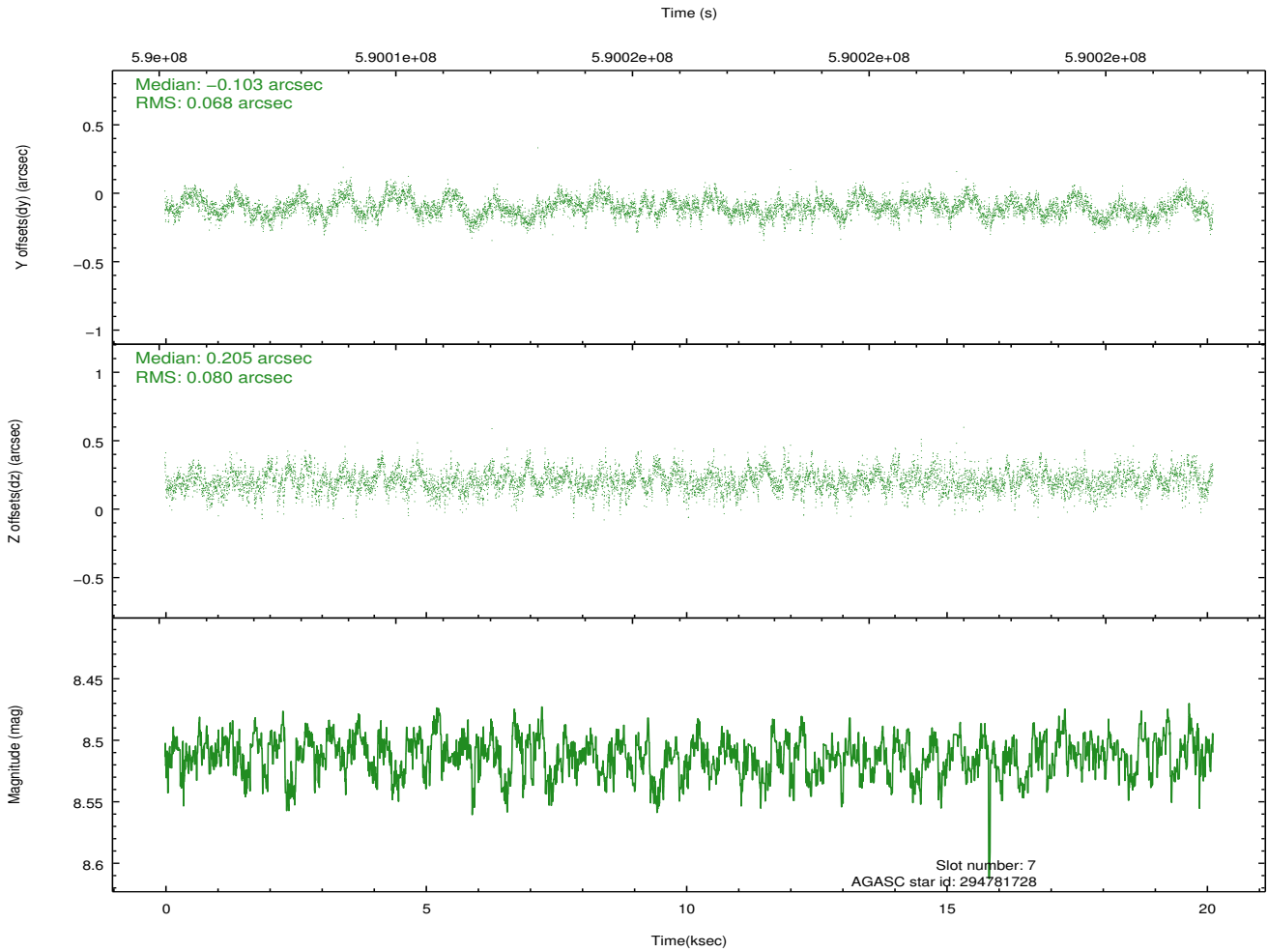
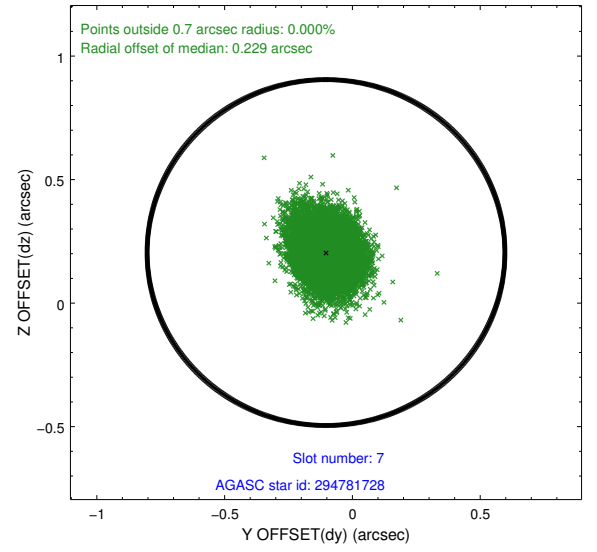
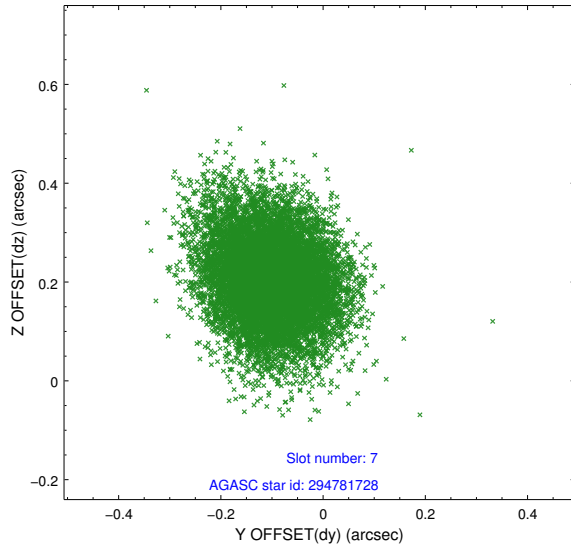
2.4.3 Slot 5



2.4.4 Slot 6

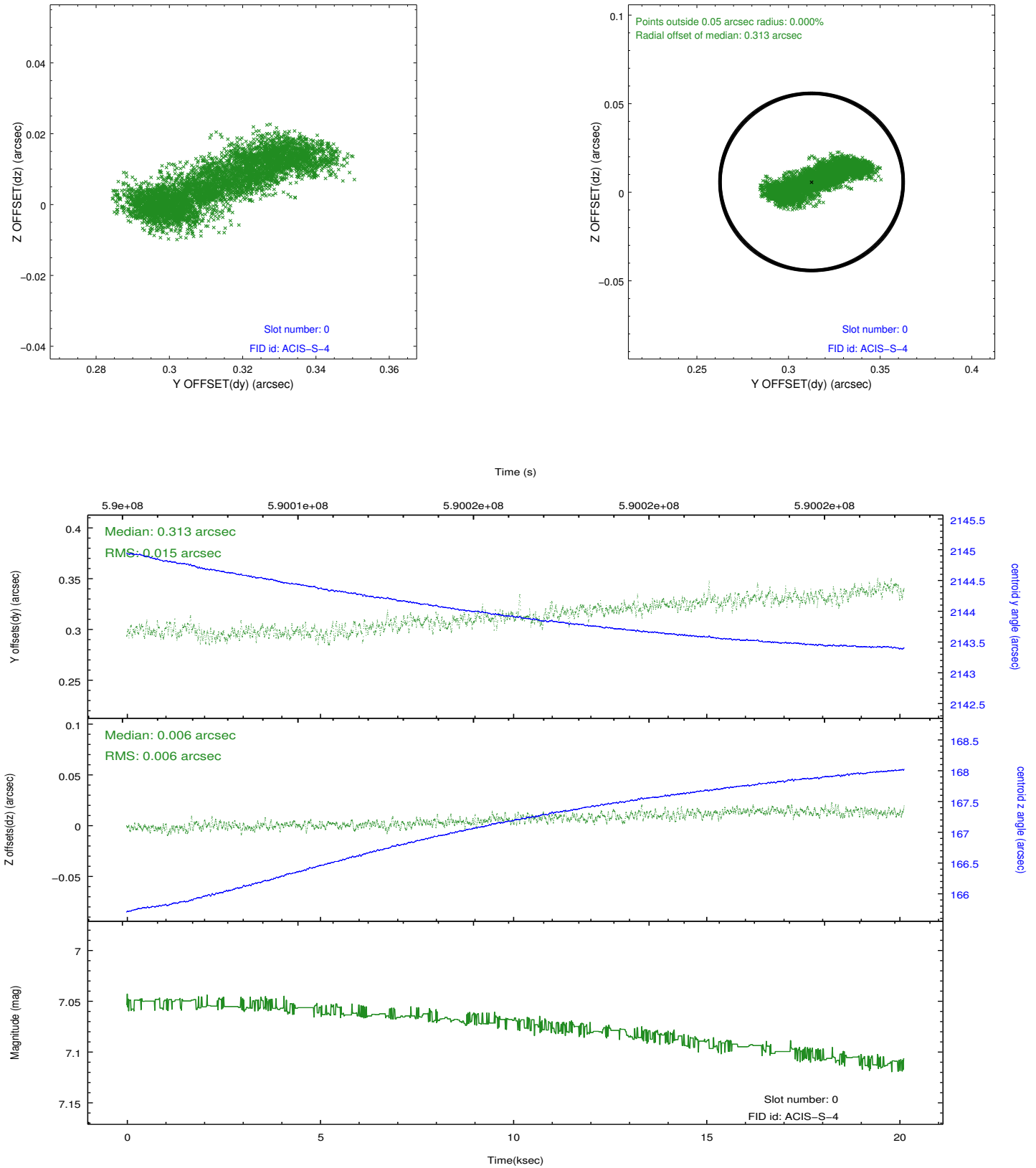


2.4.5 Slot 7

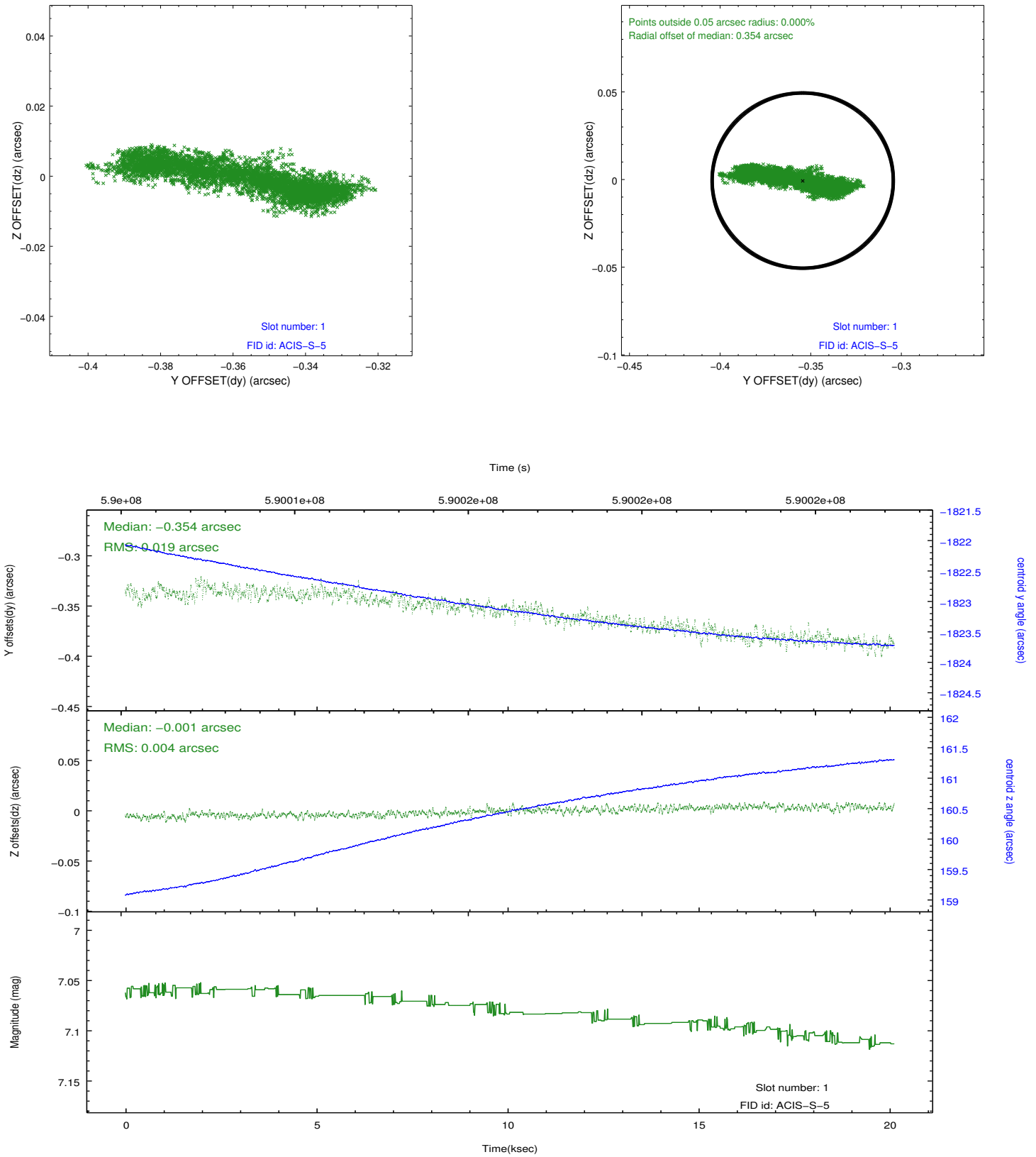


2.5 FID Slots

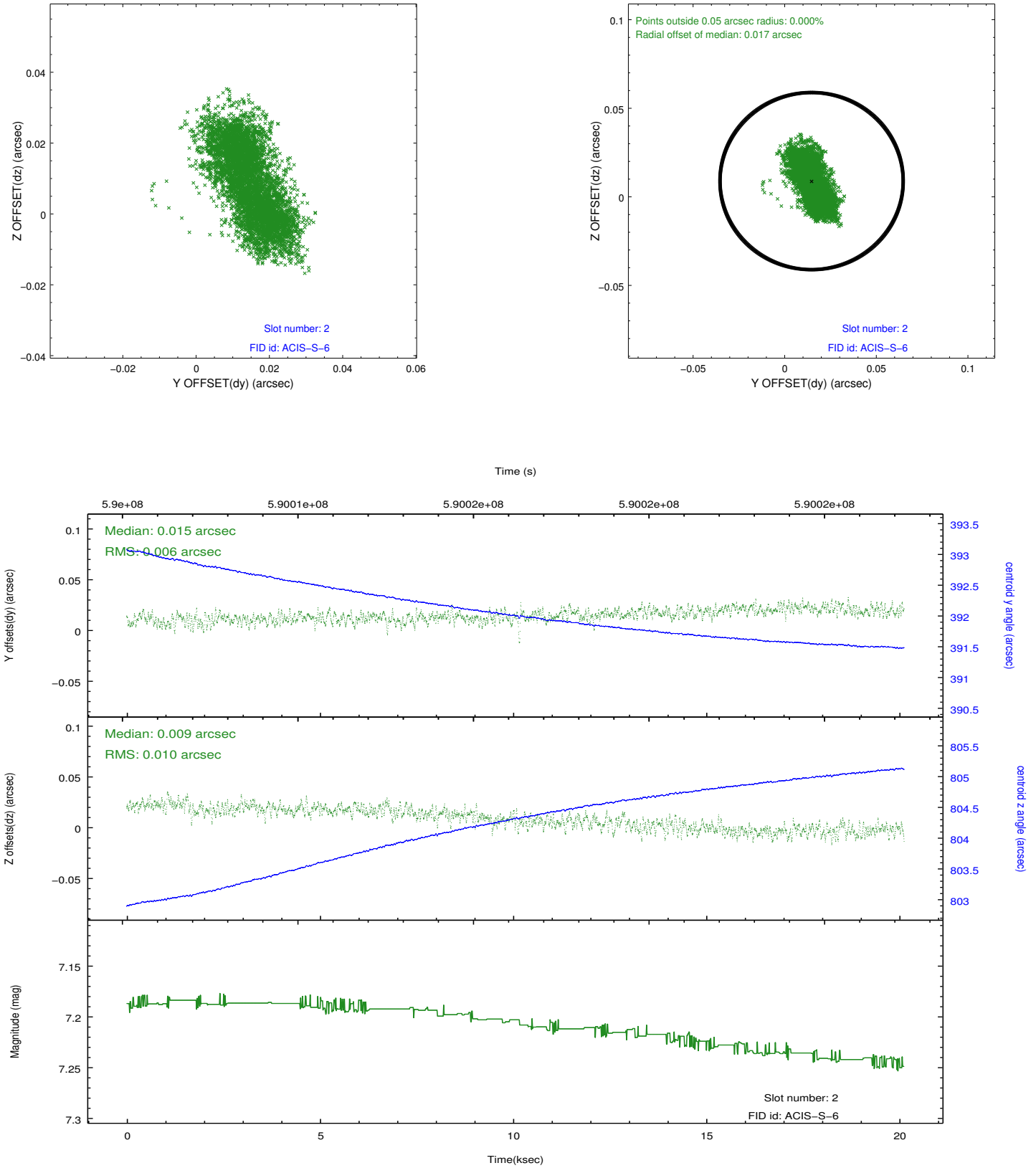
2.5.1 Slot 0



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)	2016.09.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.069038303614

A.2 Comments