

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21531 - L2 Version 1
Chandra X-Ray Center

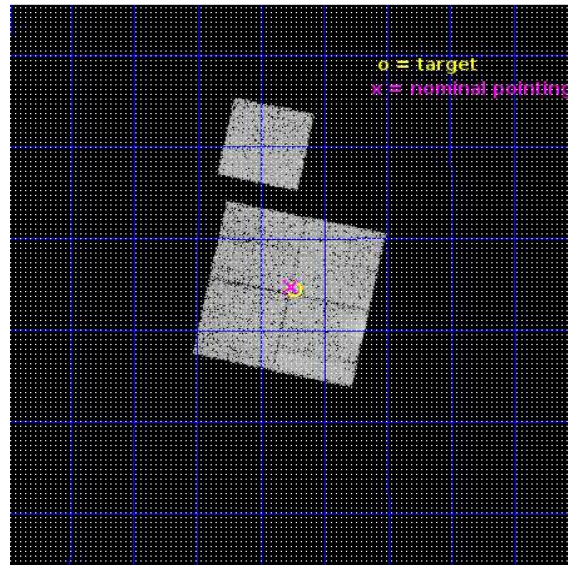
L2 Processing Date : Dec 23 2018

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1 Front

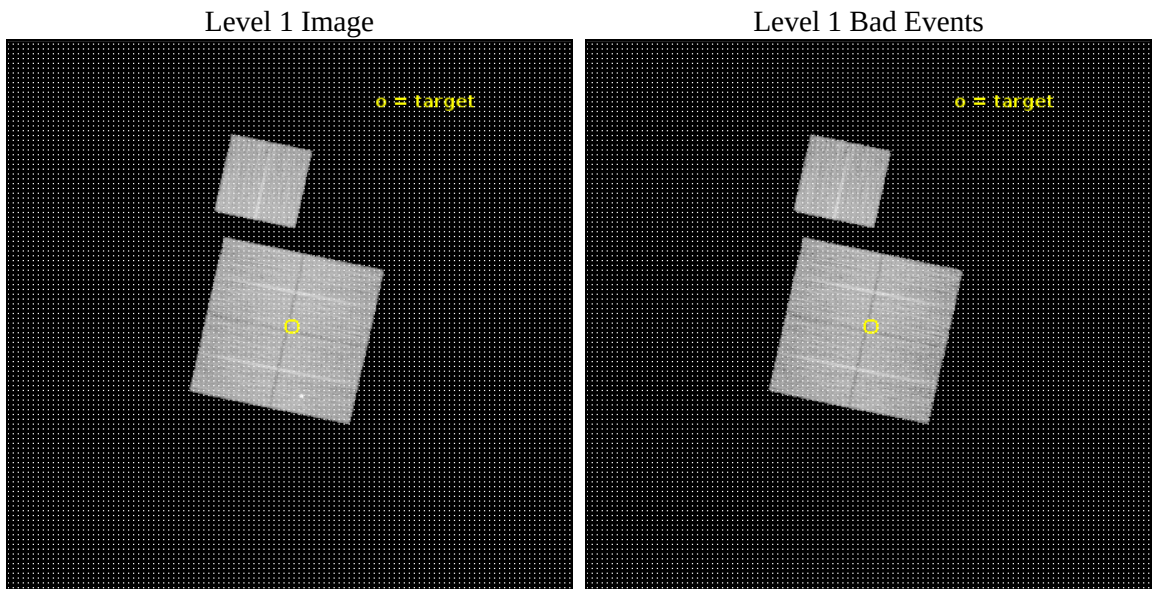
seq_num	801815	Sequence number
obs_id	21531	Observation id
title	360 Degree View of a Regular Non-Cool Core Out to the Virial Radius	
observer	KA-WAH WONG	Principal investigator
object	A2259 NE	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	260.183333	Observer's specified target RA [deg]
dec_targ	27.741306	Observer's specified target Dec [deg]
ra_nom	260.18950567414	Nominal RA [deg]
dec_nom	27.745919408144	Nominal Dec [deg]
roll_nom	12.176400502404	Nominal Roll [deg]
revision	1	Processing version of data
ontime	16746.118078232	Sum of GTIs [s]
livetime	16527.317717227	Livetime [s]
ontime0	16752.400128961	Sum of GTIs [s]
ontime1	16749.259128809	Sum of GTIs [s]
ontime2	16749.259198427	Sum of GTIs [s]
ontime3	16746.118078232	Sum of GTIs [s]
ontime6	16752.400128961	Sum of GTIs [s]
l2events	62702	Number of level 2 events



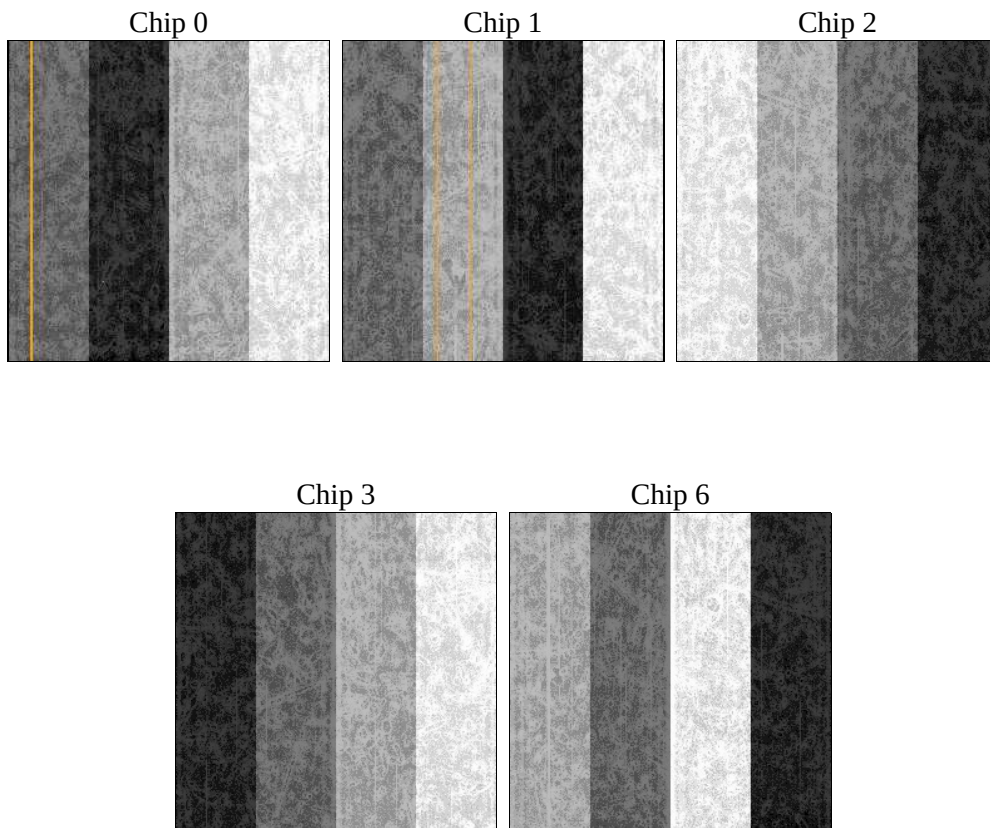
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	16689.622000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	16746.118078232	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	16752.400128961	Sum of GTIs [s]
date	2018-12-23T06:12:12	Date and time of file creation	ontime1	16749.259128809	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	16749.259198427	Sum of GTIs [s]
			ontime3	16746.118078232	Sum of GTIs [s]
			ontime6	16752.400128961	Sum of GTIs [s]
			l1events	653837	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	122579	127800	136947	134069	132442
rejected events	108100	107424	123562	120379	117954
rejected %	88%	84%	90%	89%	89%

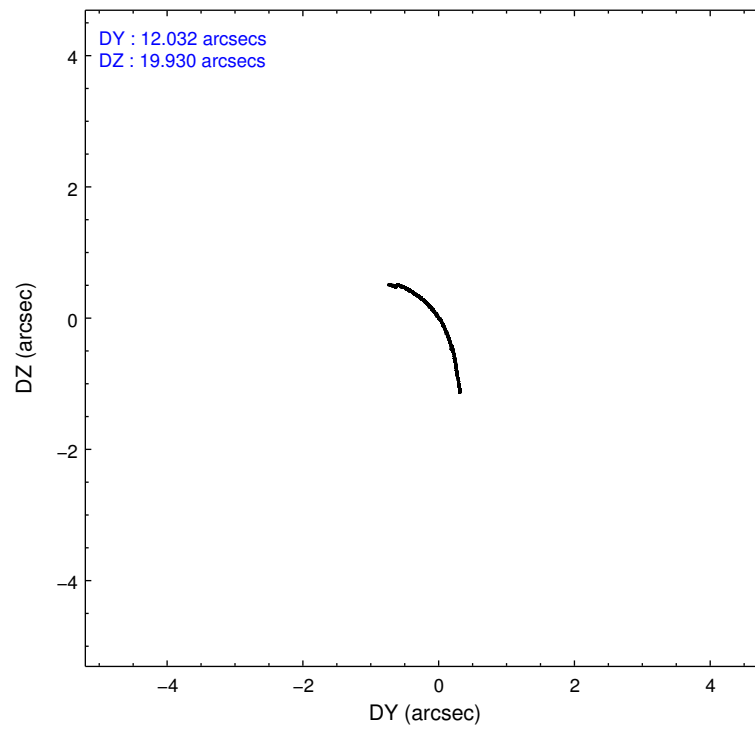
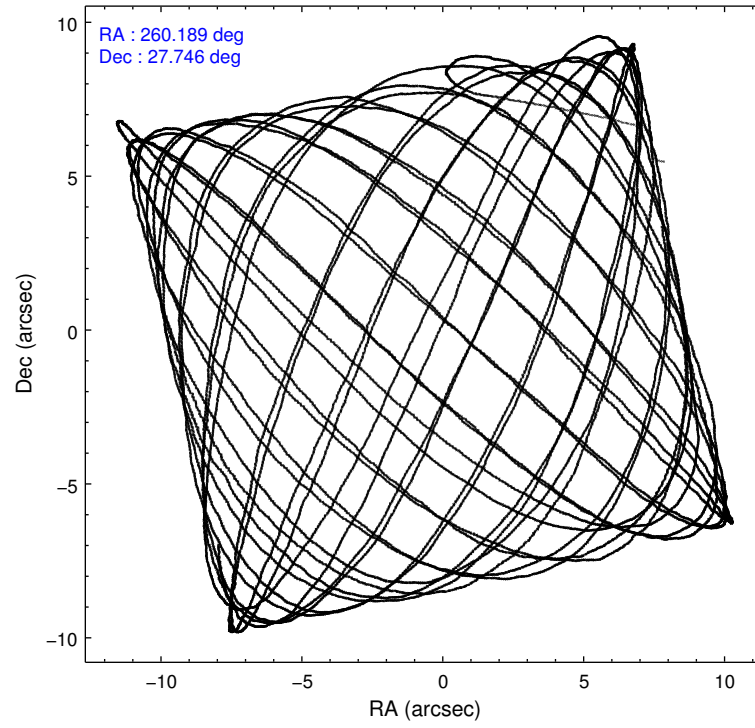
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4788	9002	4677	4923	4494
	3%	7%	3%	3%	3%
grade 1 events	56	86	63	76	53
	0%	0%	0%	0%	0%
grade 2 events	3702	4697	3232	2967	3572
	3%	3%	2%	2%	2%
grade 3 events	1497	1476	1390	1446	1394
	1%	1%	1%	1%	1%
grade 4 events	1399	1457	1340	1447	1336
	1%	1%	0%	1%	1%
grade 5 events	5257	5316	4978	5876	5536
	4%	4%	3%	4%	4%
grade 6 events	3099	3747	2750	2911	3700
	2%	2%	2%	2%	2%
grade 7 events	102781	102019	118517	114423	112357
	83%	79%	86%	85%	84%

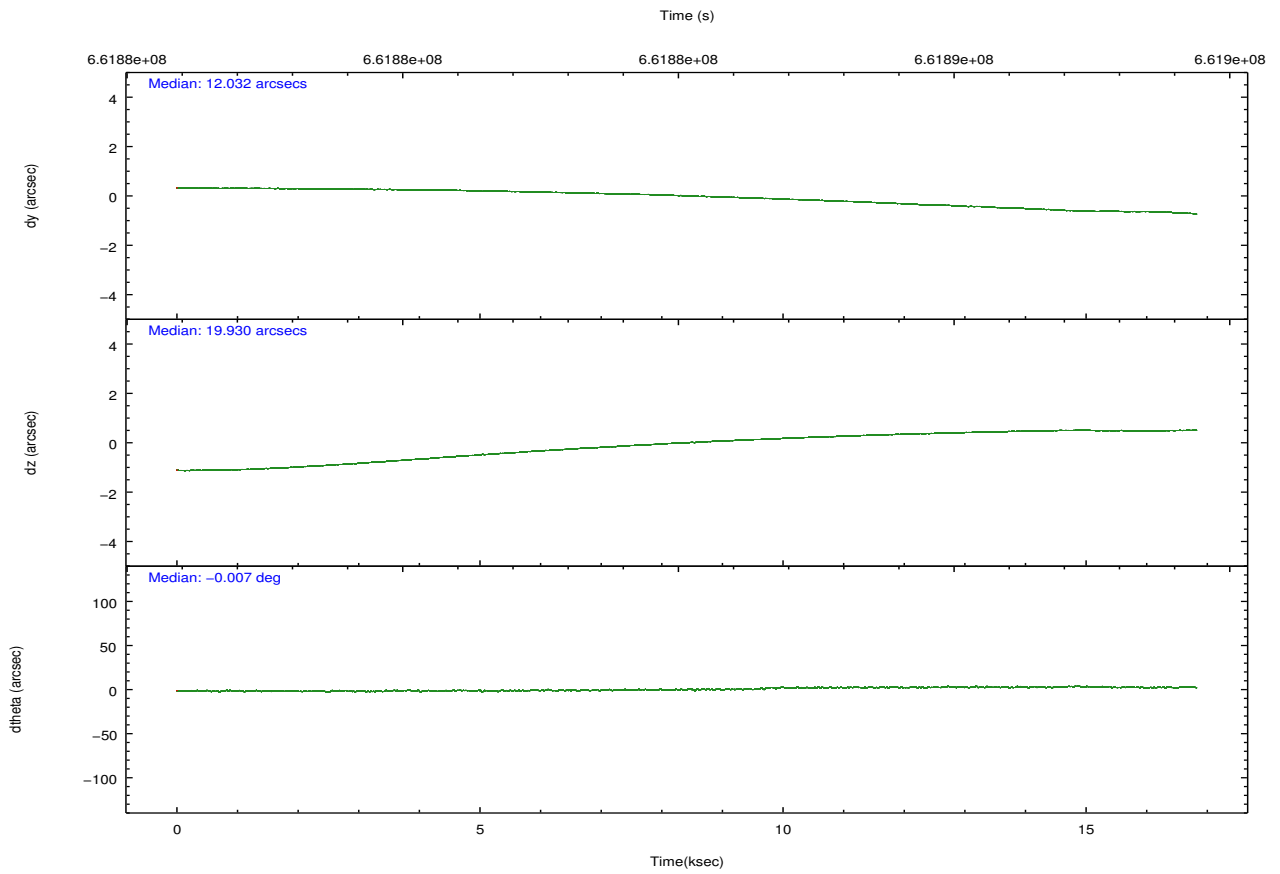
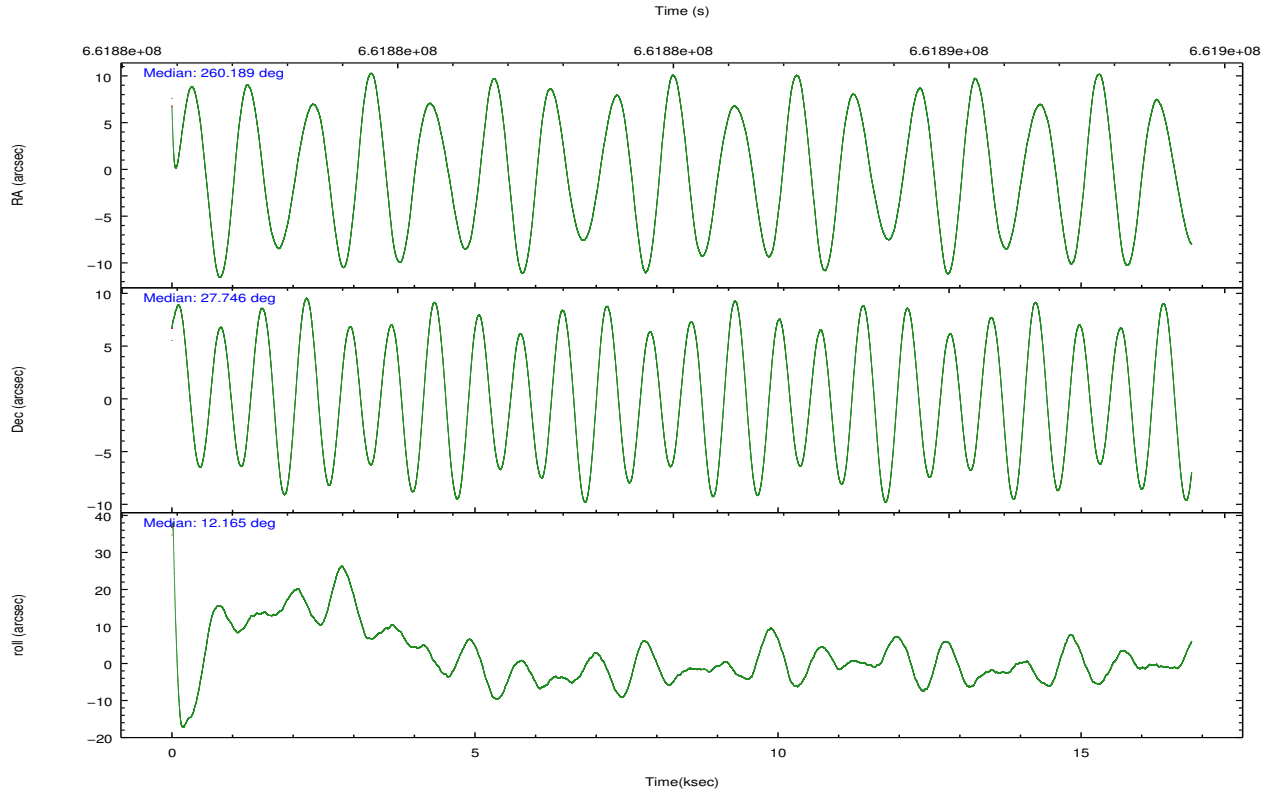
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	260.166446	260.1895056741422
[deg] Pointing Dec	27.727304	27.74591940814444
[deg] Pointing Roll	11.978408	12.17640050240378
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	661876873.184000	661875580.8136801
Observation start date	2018-12-22T14:40:04	2018-12-22T14:19:40
[s] Observation end time (MET)	661893563.184000	661894691.9398201
Observation end date	2018-12-22T19:18:14	2018-12-22T19:38:11
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	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	N	N
CCD S4 on	N	N
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



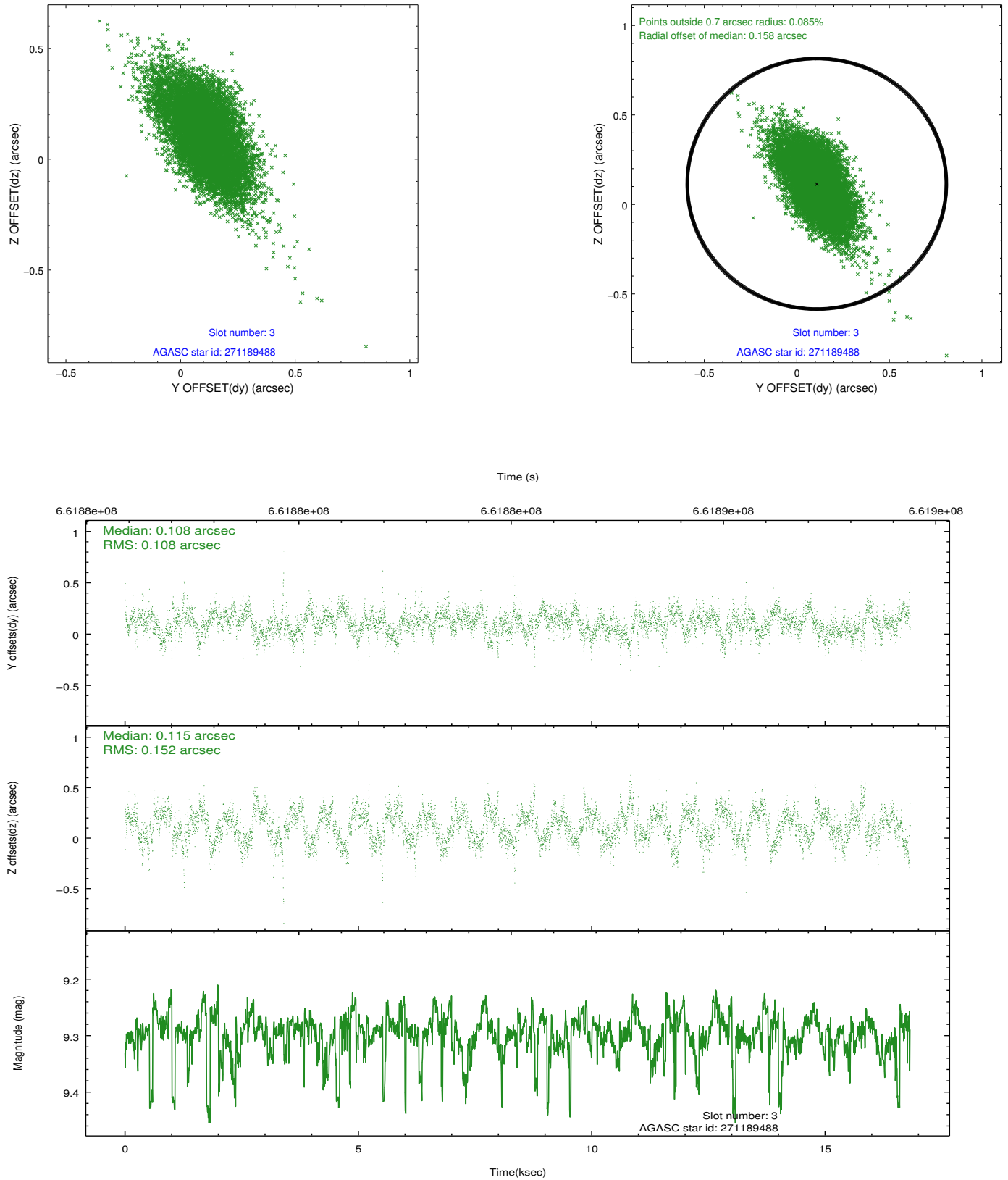


Slot Statistics

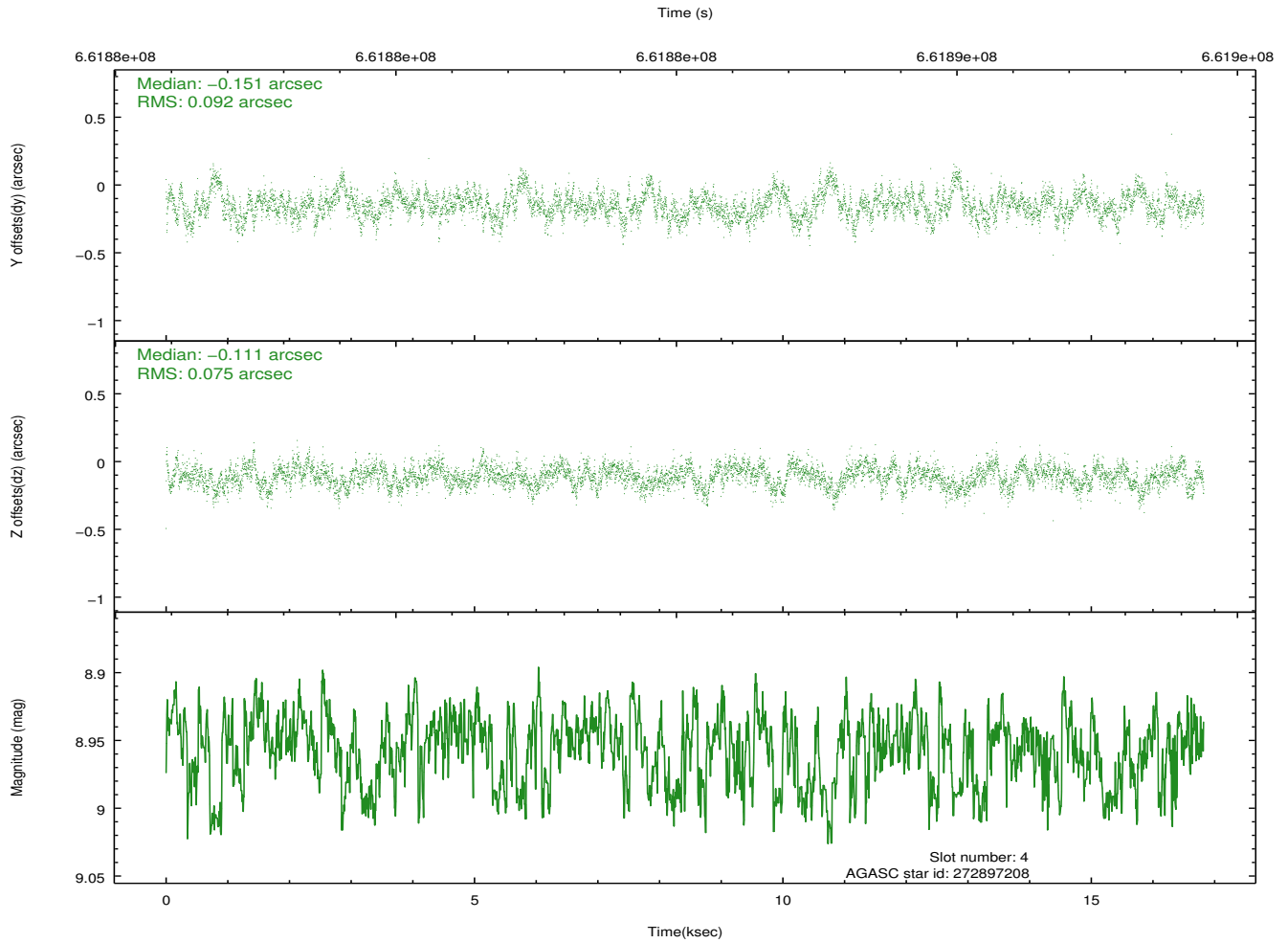
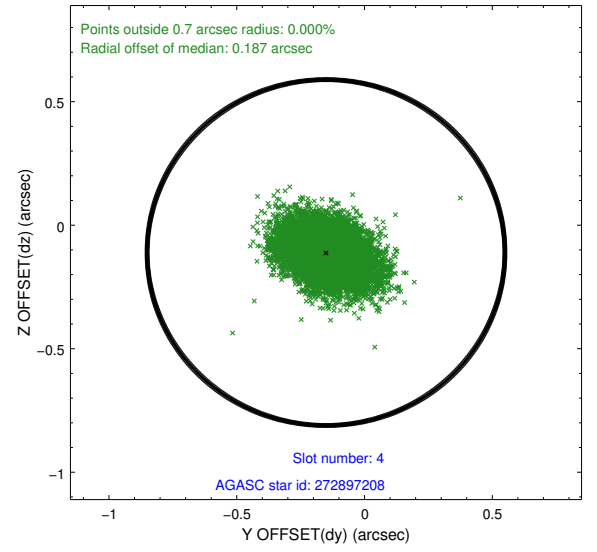
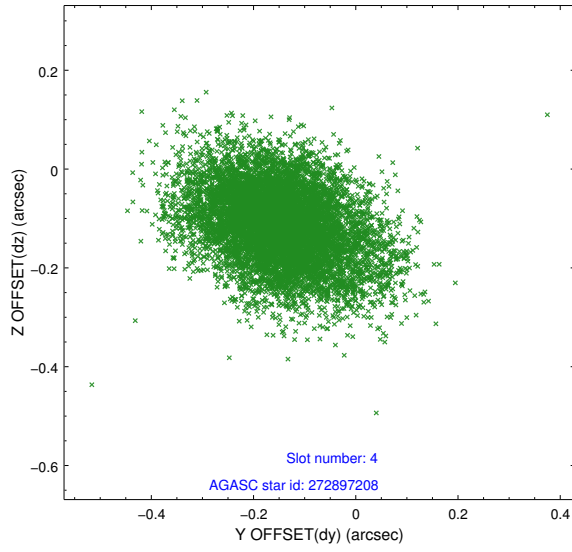
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	4103	1.000	0.092	-0.081	0.029	0.037	0.000000	0.000000	927.76	-843
1	FID		ACIS-I-5	7.24	4103	1.000	-0.474	0.011	0.014	0.021	0.000000	0.000000	-1820.94	1053
2	FID		ACIS-I-6	7.24	4104	1.000	0.291	0.140	0.019	0.026	0.000000	0.000000	393.00	1698
3	GUIDE	used	271189488	9.30	8191	1.000	0.108	0.115	0.191	0.327	259.387780	28.096100	-2142.15	1819
4	GUIDE	used	272897208	8.96	8199	1.000	-0.151	-0.111	0.123	0.212	260.807494	27.778543	2036.55	-237
5	GUIDE	used	272898872	8.99	8195	1.000	0.196	0.211	0.154	0.245	260.157490	27.527501	-176.67	-698
6	GUIDE	used	272901536	9.29	8192	1.000	-0.021	0.029	0.191	0.289	259.913259	28.084342	-519.18	1424
7	GUIDE	used	273419232	7.83	8203	1.000	-0.129	-0.239	0.106	0.181	259.649336	28.251345	-1212.26	2189

2.4 Star Slots

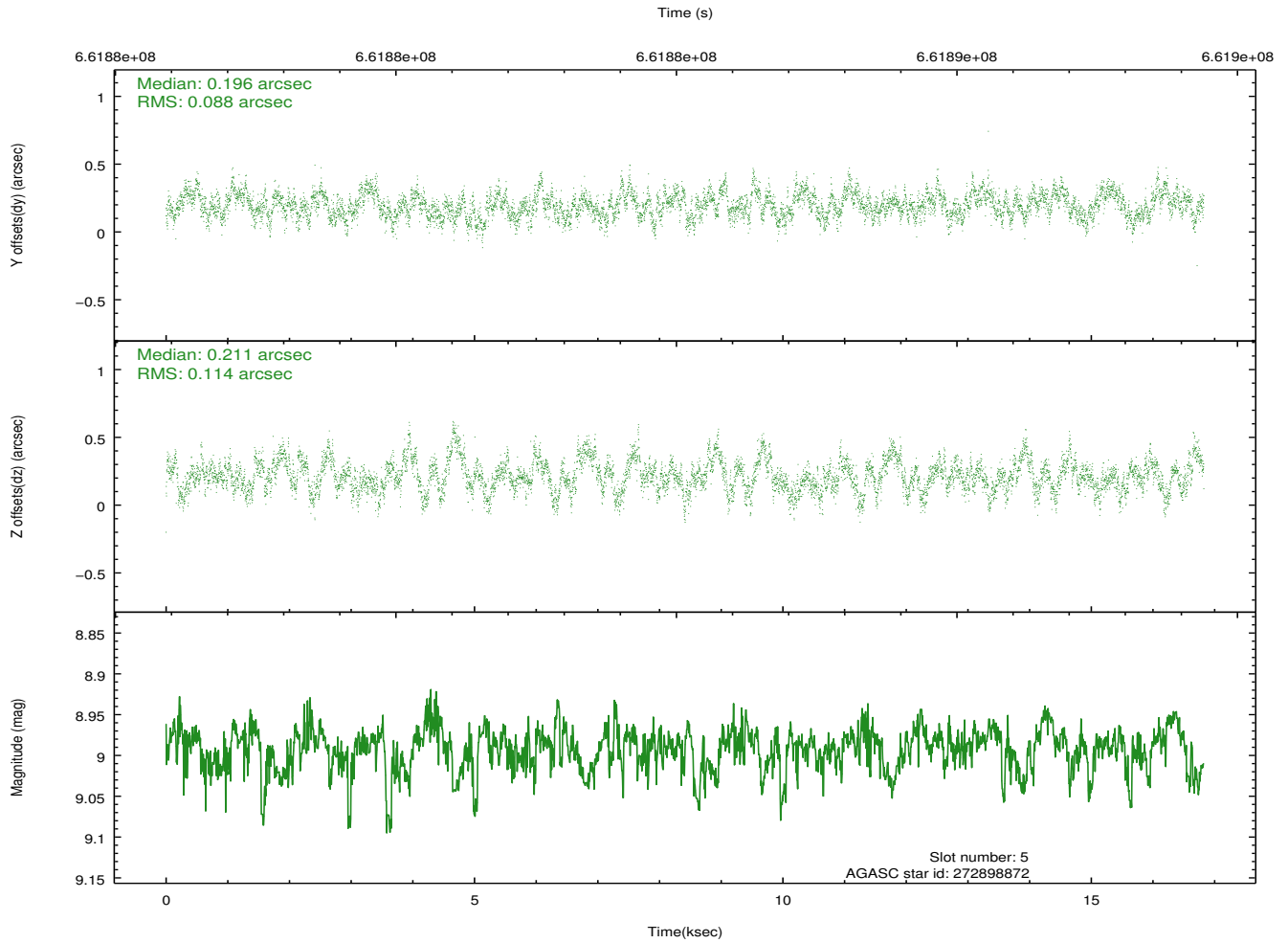
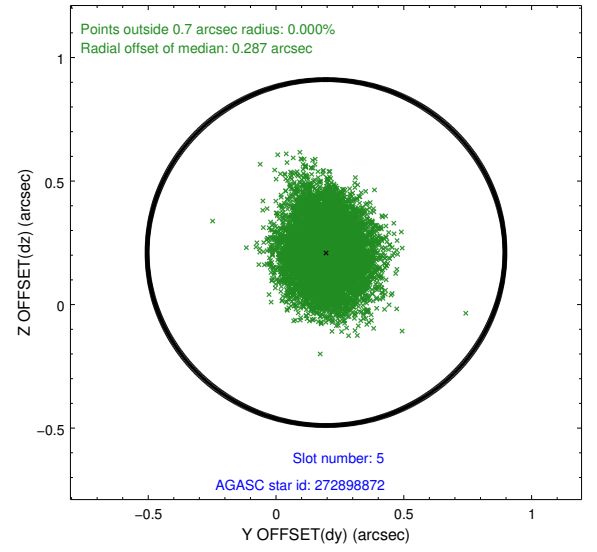
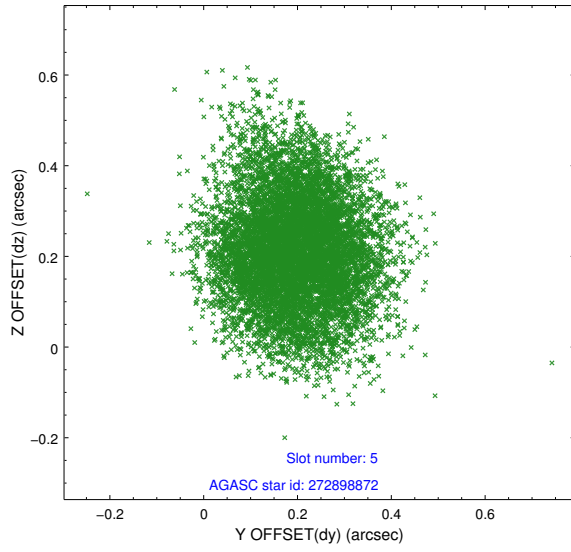
2.4.1 Slot 3



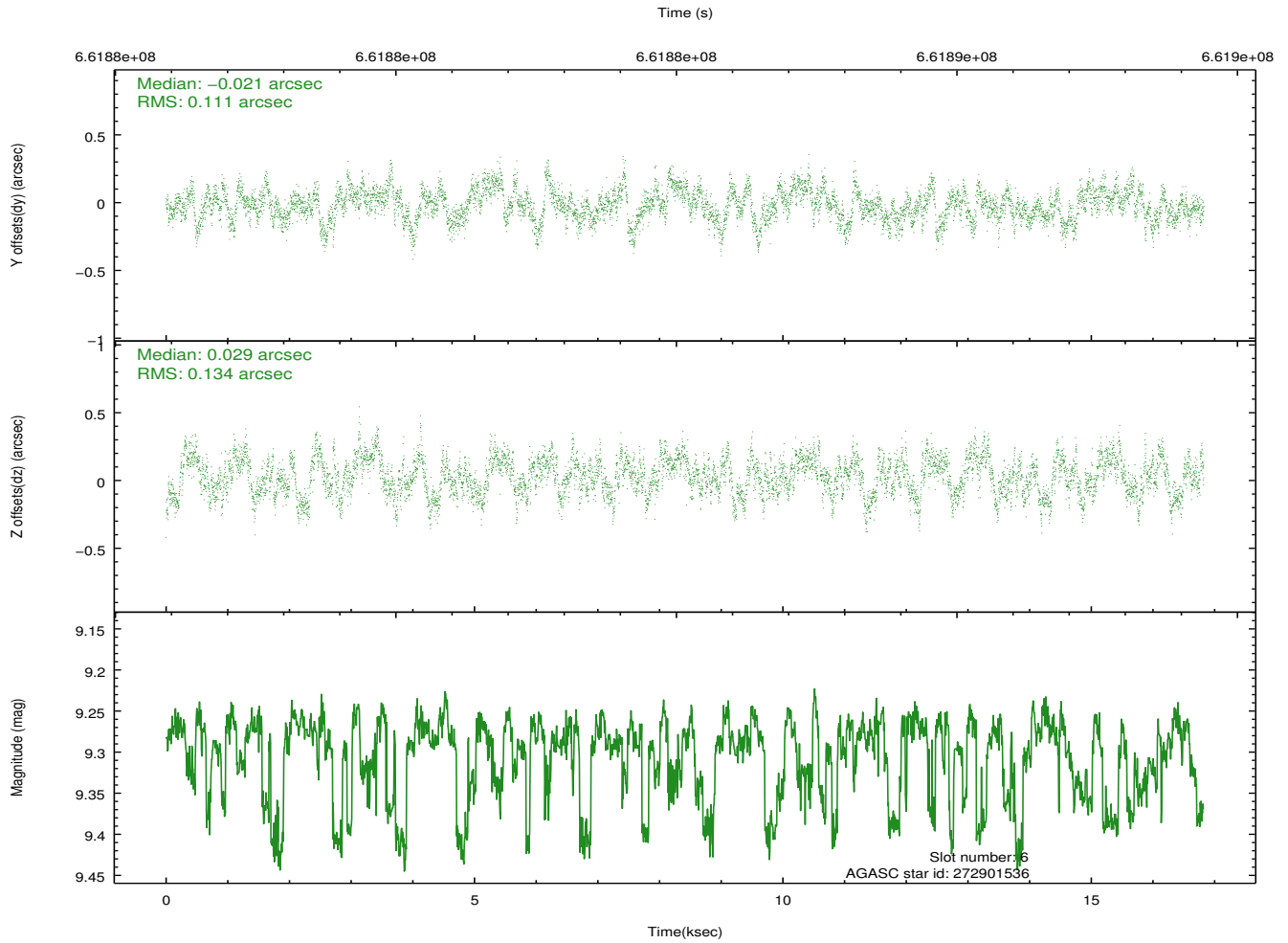
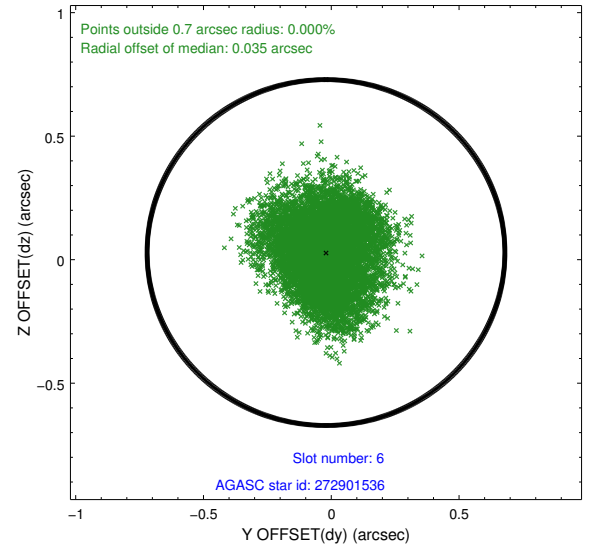
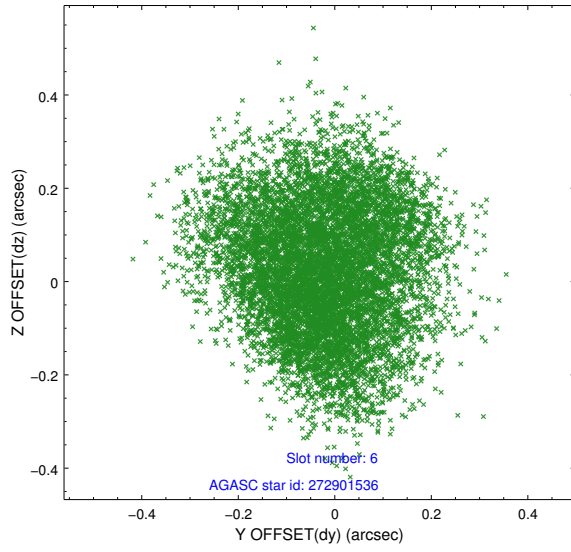
2.4.2 Slot 4



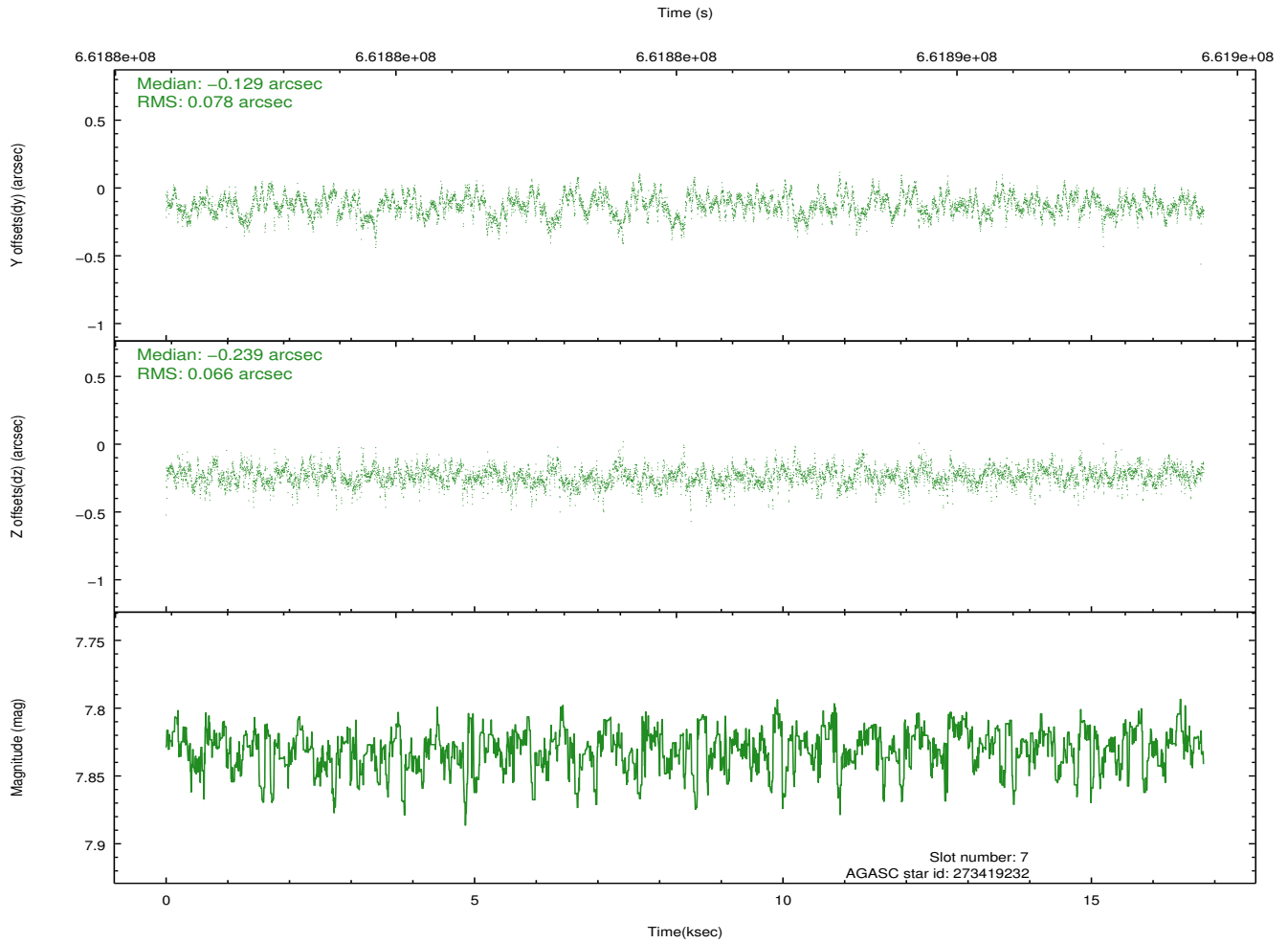
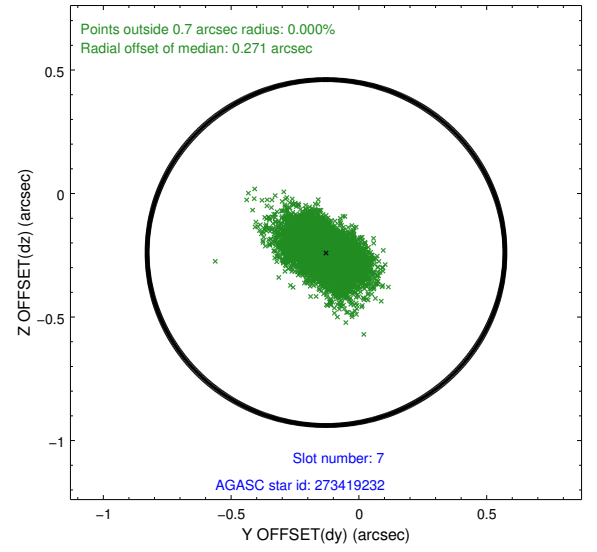
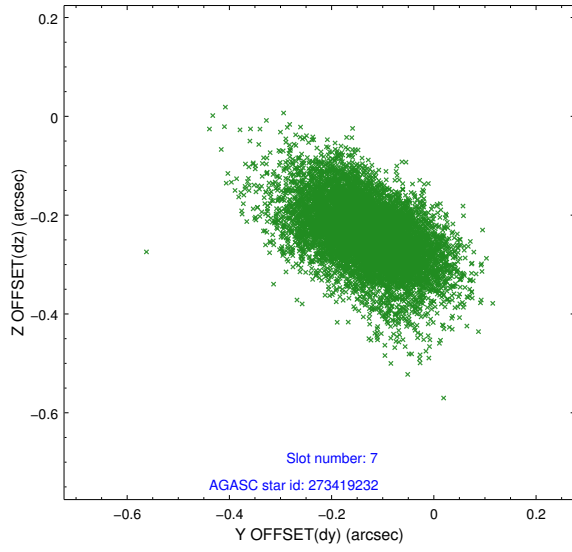
2.4.3 Slot 5



2.4.4 Slot 6

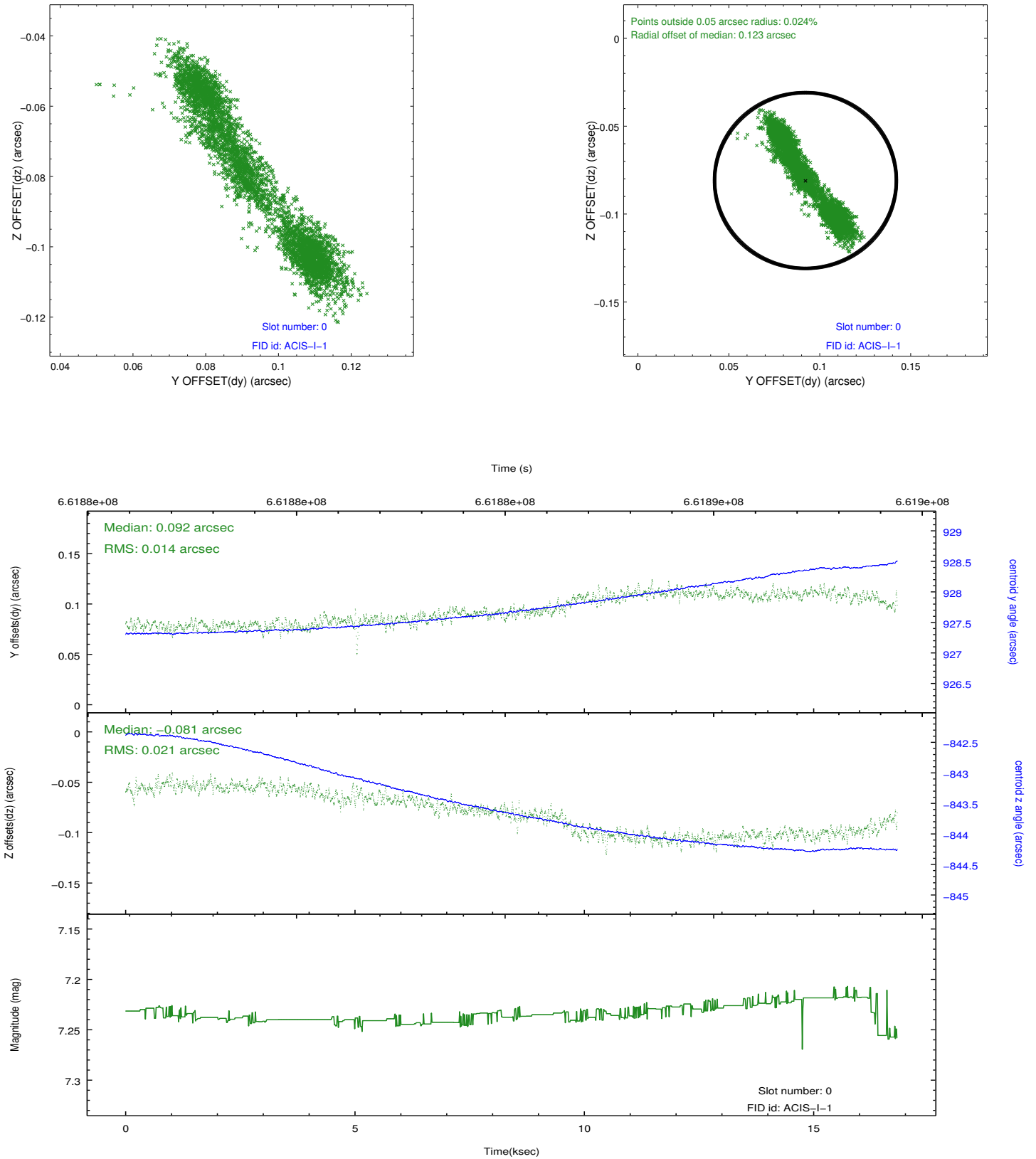


2.4.5 Slot 7

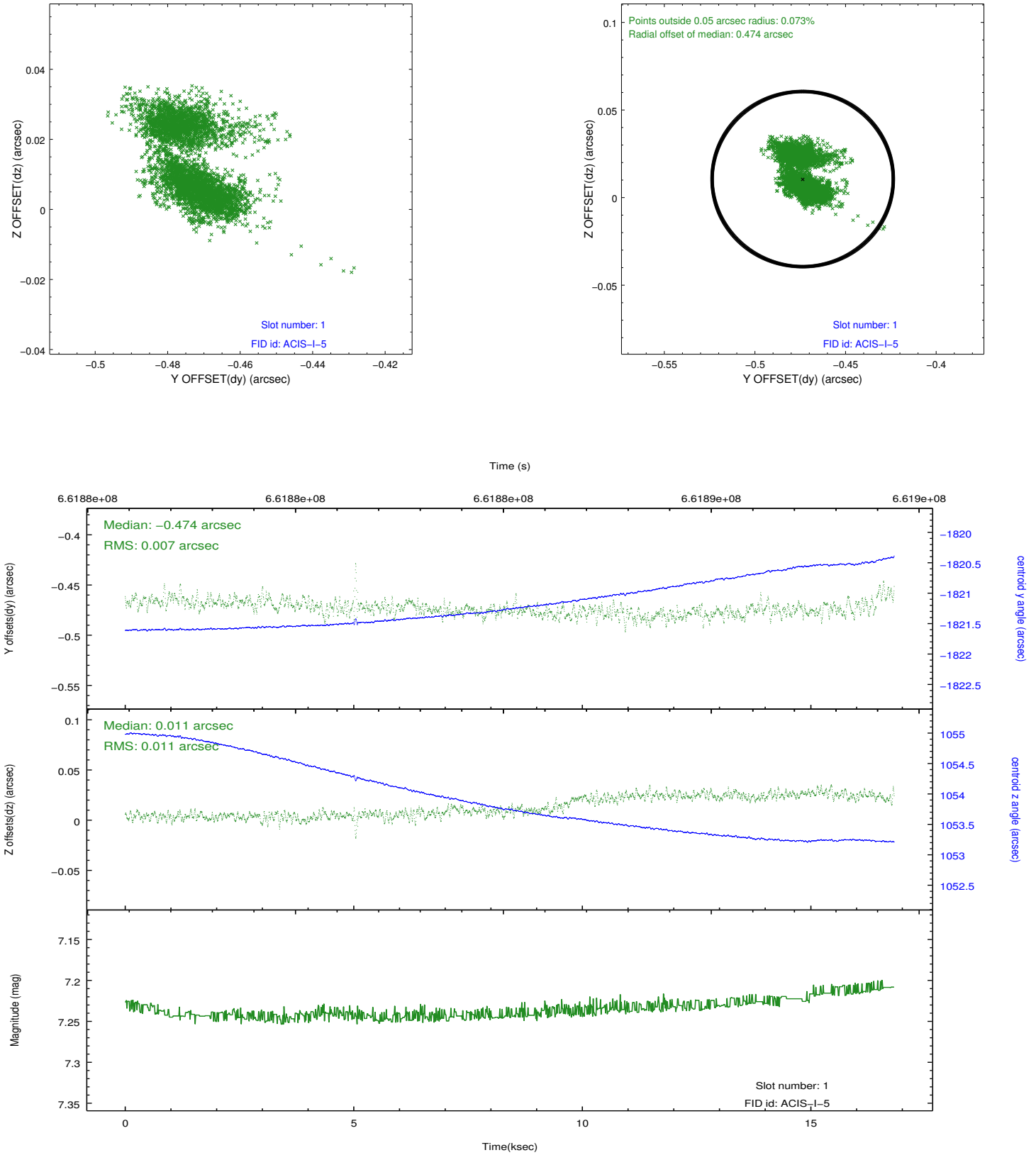


2.5 FID Slots

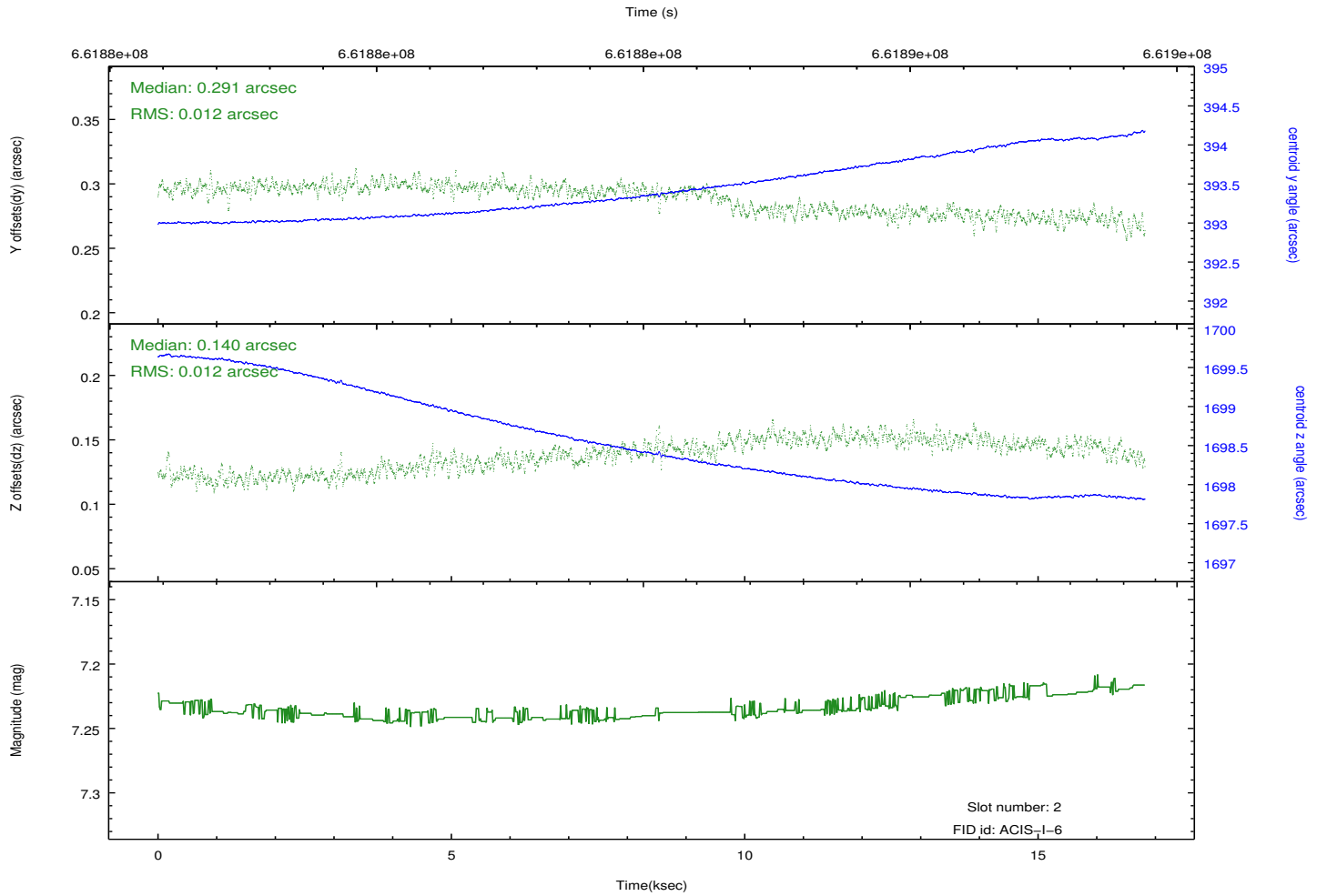
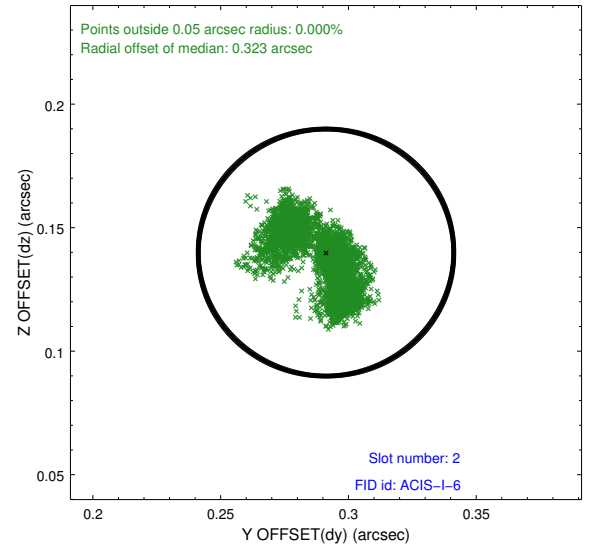
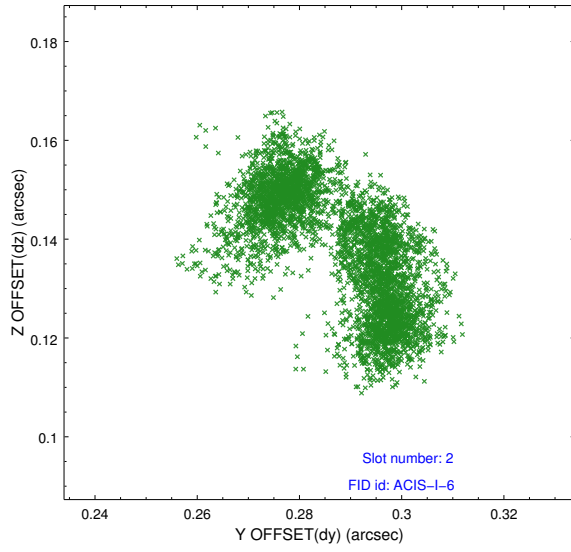
2.5.1 Slot 0



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)	2018.12.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.746118078232

A.2 Comments