

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22161 - L2 Version 1
Chandra X-Ray Center

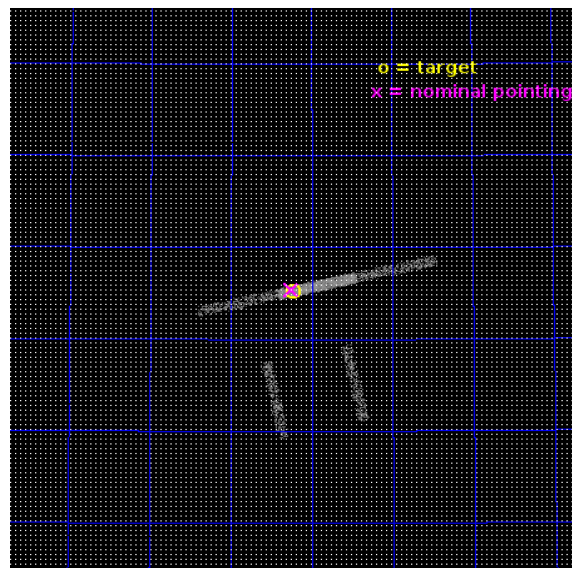
L2 Processing Date : Apr 1 2019

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1 Front

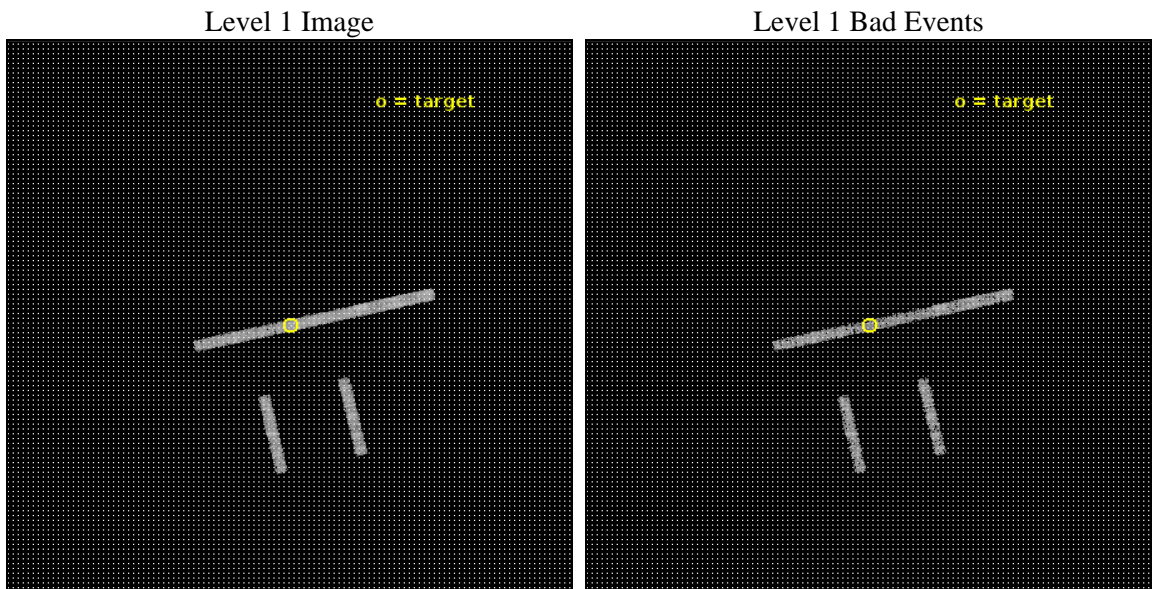
seq_num	703706	Sequence number
obs_id	22161	Observation id
title	Chandra Observations of the Young Gamma-Ray AGN TXS 0128+554	Propo
observer	Matthew Lister	Principal investigator
object	TXS 0128+554	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	22.8075	Observer's specified target RA [deg]
dec_targ	55.753611	Observer's specified target Dec [deg]
ra_nom	22.812709736091	Nominal RA [deg]
dec_nom	55.756735807937	Nominal Dec [deg]
roll_nom	347.15232762691	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4069.8002772331	Sum of GTIs [s]
livetime	3844.4081211044	Livetime [s]
ontime2	4069.8002772331	Sum of GTIs [s]
ontime3	4069.8002772331	Sum of GTIs [s]
ontime6	4069.8002772331	Sum of GTIs [s]
ontime7	4069.8002772331	Sum of GTIs [s]
ontime8	4069.8002772331	Sum of GTIs [s]
l2events	4704	Number of level 2 events



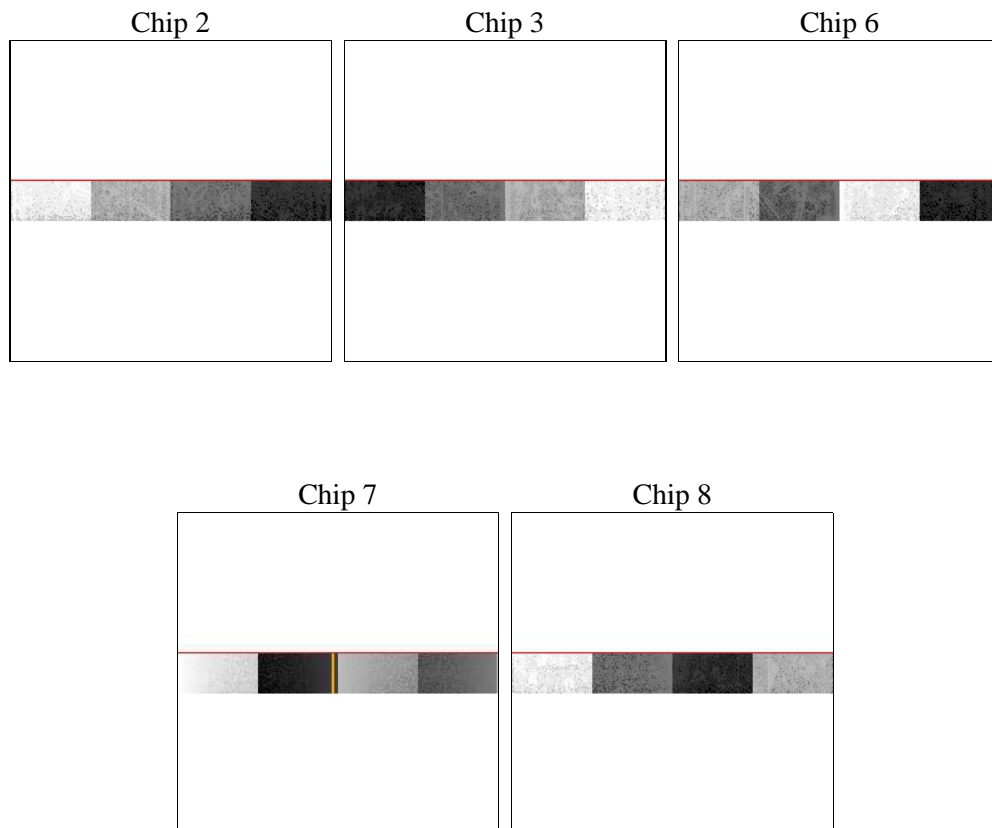
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	4069.8002772331	Sum of GTIs [s]
caldsver	4.8.2	 	ontime2	4069.8002772331	Sum of GTIs [s]
date	2019-04-01T11:26:23	Date and time of file creation	ontime3	4069.8002772331	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	4069.8002772331	Sum of GTIs [s]
			ontime7	4069.8002772331	Sum of GTIs [s]
			ontime8	4069.8002772331	Sum of GTIs [s]
			l1events	27304	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	4749	4566	4884	5920	7185
rejected events	4134	4069	4314	3010	5327
rejected %	87%	89%	88%	50%	74%

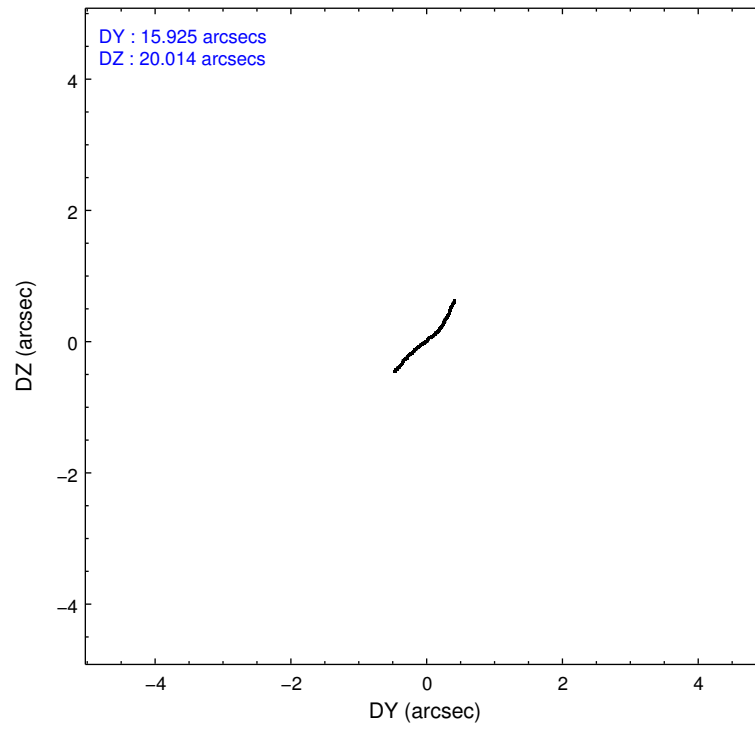
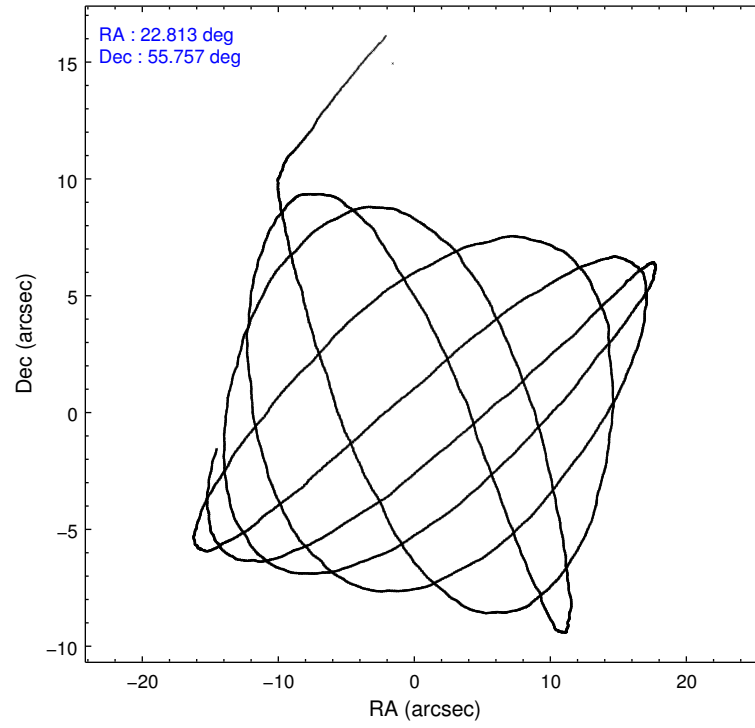
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	224	162	139	323	429
	4%	3%	2%	5%	5%
grade 1 events	2	1	3	9	2
	0%	0%	0%	0%	0%
grade 2 events	106	101	131	691	415
	2%	2%	2%	11%	5%
grade 3 events	94	87	91	297	176
	1%	1%	1%	5%	2%
grade 4 events	105	71	100	317	196
	2%	1%	2%	5%	2%
grade 5 events	155	165	210	614	272
	3%	3%	4%	10%	3%
grade 6 events	86	76	109	1283	642
	1%	1%	2%	21%	8%
grade 7 events	3977	3903	4101	2386	5053
	83%	85%	83%	40%	70%

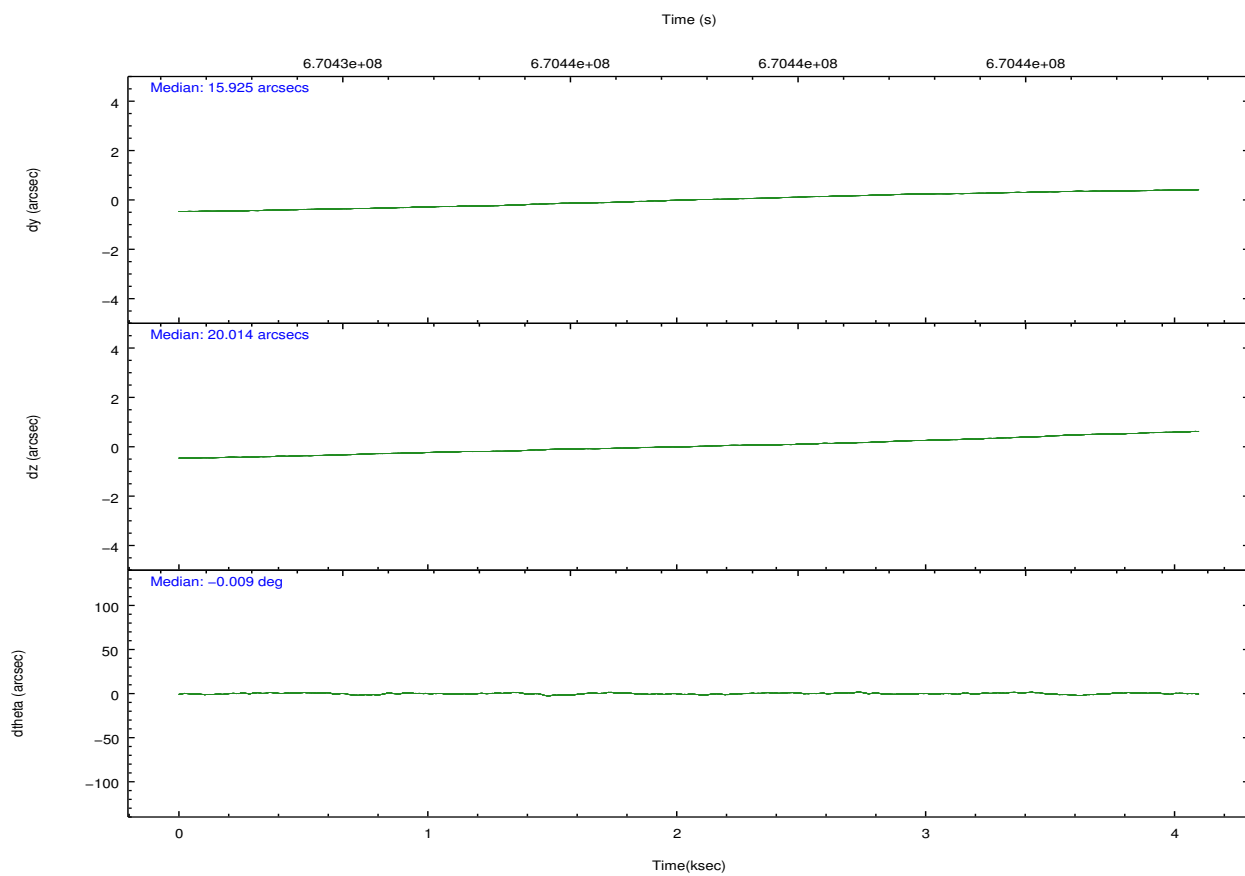
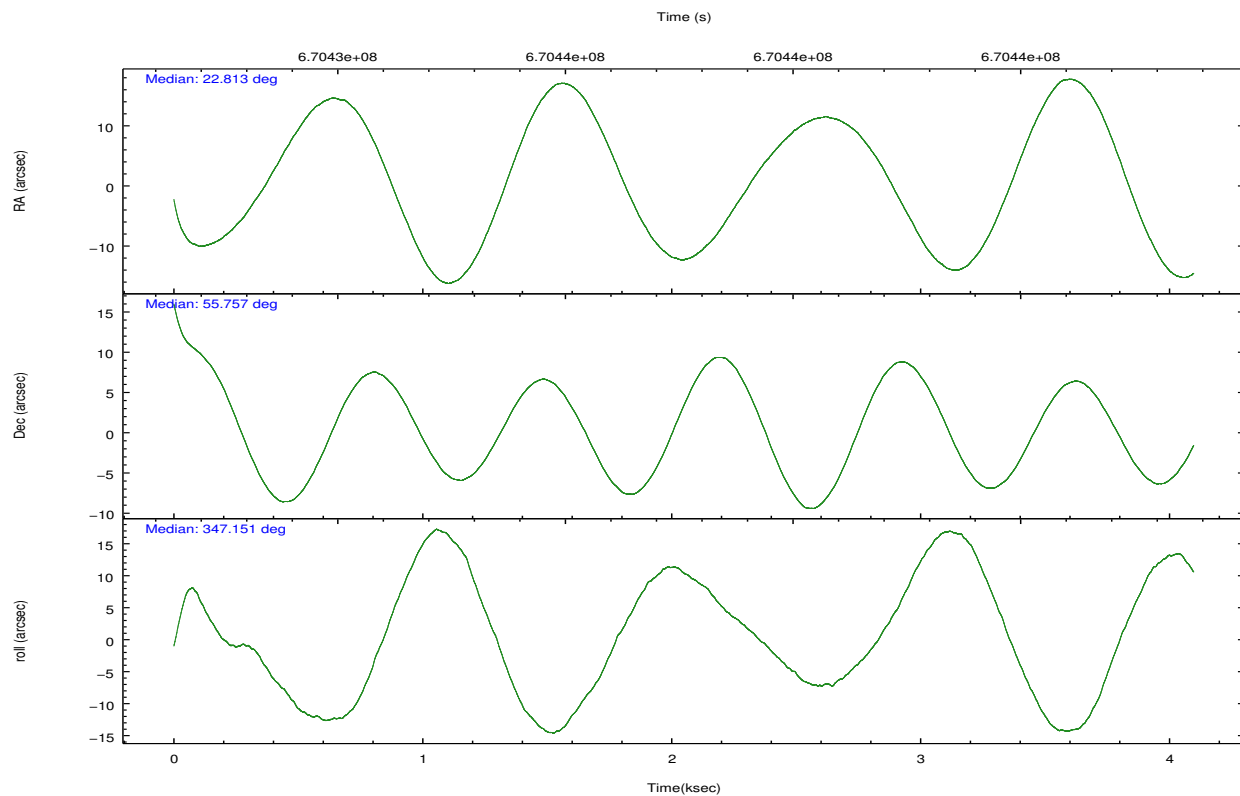
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	22.766383	22.81270973609116
[deg] Pointing Dec	55.748277	55.75673580793737
[deg] Pointing Roll	347.033990	347.152327626906
[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)	670433565.184000	670432086.0624
Observation start date	2019-03-31T15:31:36	2019-03-31T15:08:06
[s] Observation end time (MET)	670437565.184000	670438647.08779
Observation end date	2019-03-31T16:38:16	2019-03-31T16:57:27
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	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.7

2.3 Aspect



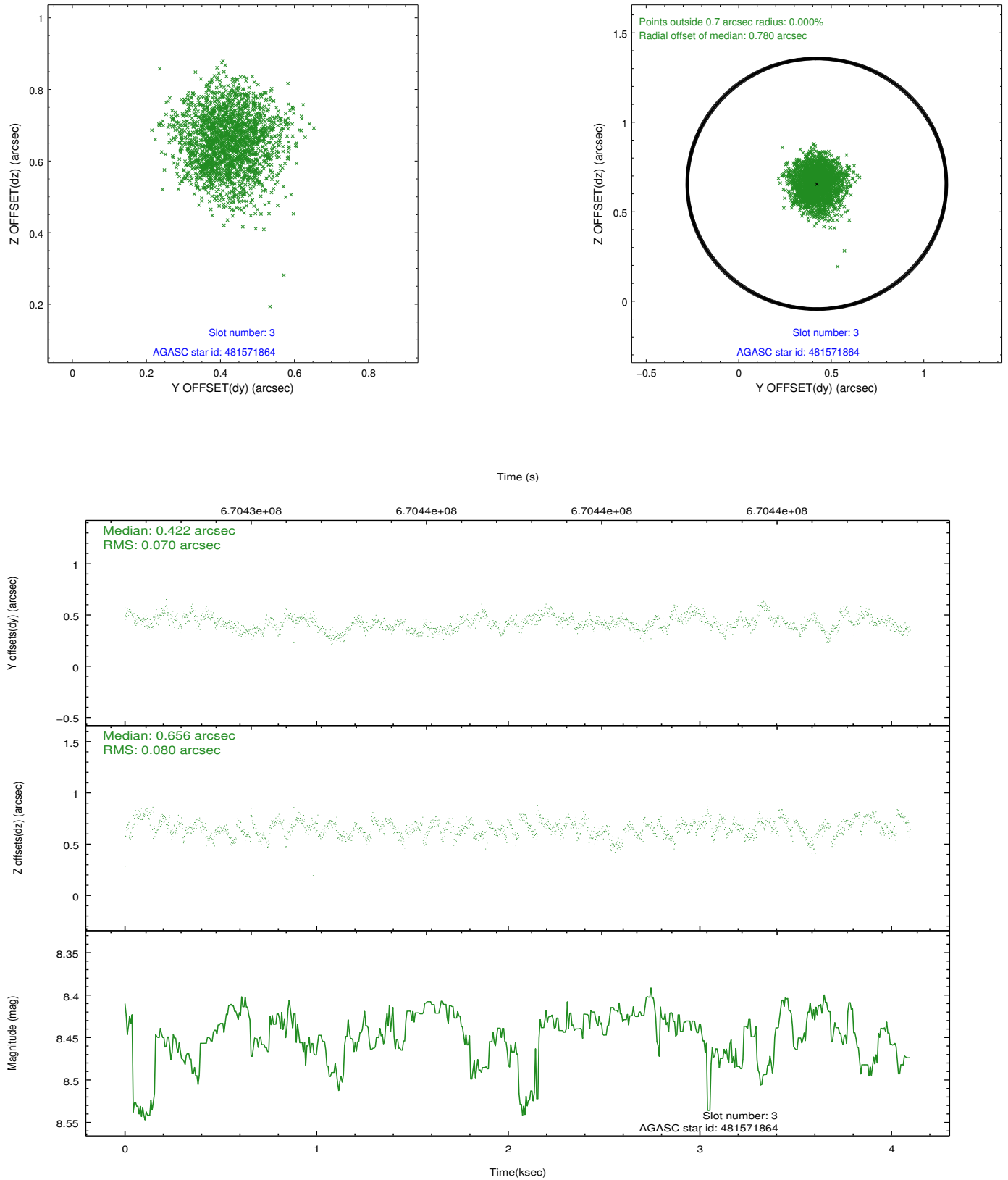


Slot Statistics

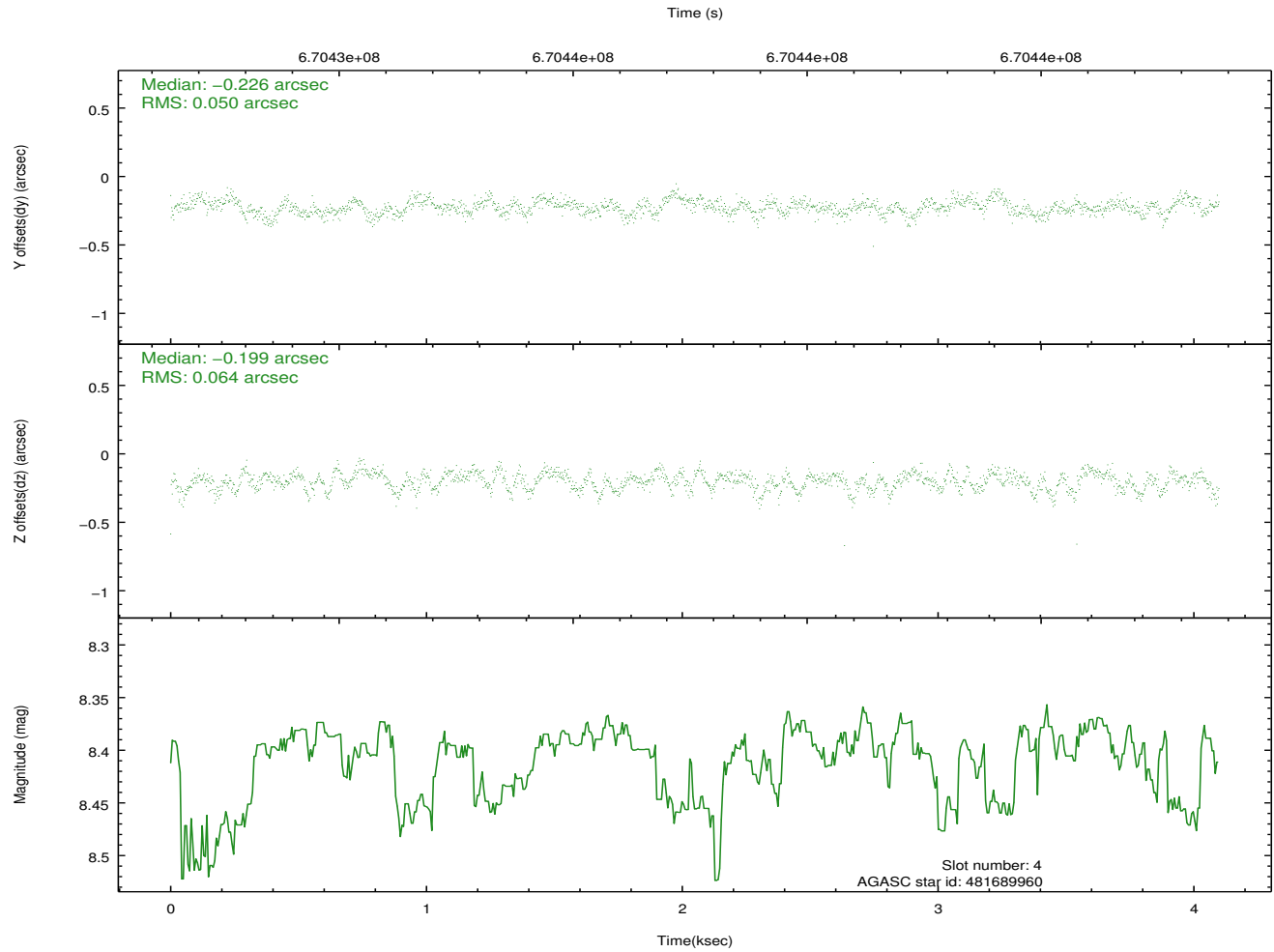
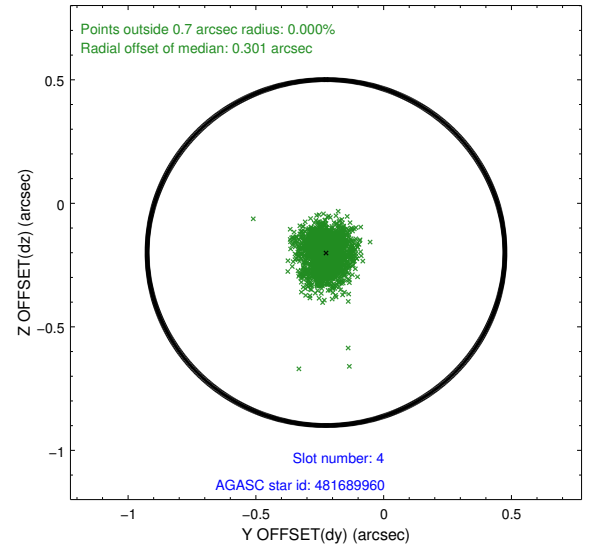
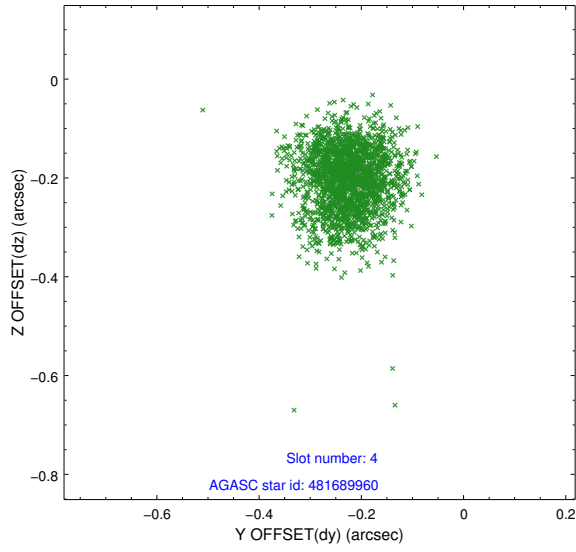
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.08	1000	1.000	0.170	-0.109	0.022	0.034	0.000000	0.000000	927.42	-1737
1	FID		ACIS-S-5	7.07	1000	1.000	-0.472	0.045	0.013	0.024	0.000000	0.000000	-1821.50	158
2	FID		ACIS-S-6	7.25	1000	1.000	0.279	0.077	0.021	0.034	0.000000	0.000000	391.27	804
3	GUIDE	used	481571864	8.45	1999	1.000	0.422	0.656	0.114	0.177	22.222732	55.278977	-708.11	-1892
4	GUIDE	used	481689960	8.40	2000	1.000	-0.226	-0.199	0.085	0.137	23.818984	56.189894	1693.56	2036
5	GUIDE	used	481698904	6.83	2000	1.000	-0.037	-0.123	0.087	0.135	23.338629	55.817696	1071.11	508
6	GUIDE	used	481709512	8.69	2000	1.000	-0.002	-0.065	0.099	0.161	23.411712	55.662405	1345.26	-1
7	GUIDE	used	481691096	7.43	1999	1.000	-0.161	-0.257	0.092	0.155	23.857922	56.043730	1896.33	1544

2.4 Star Slots

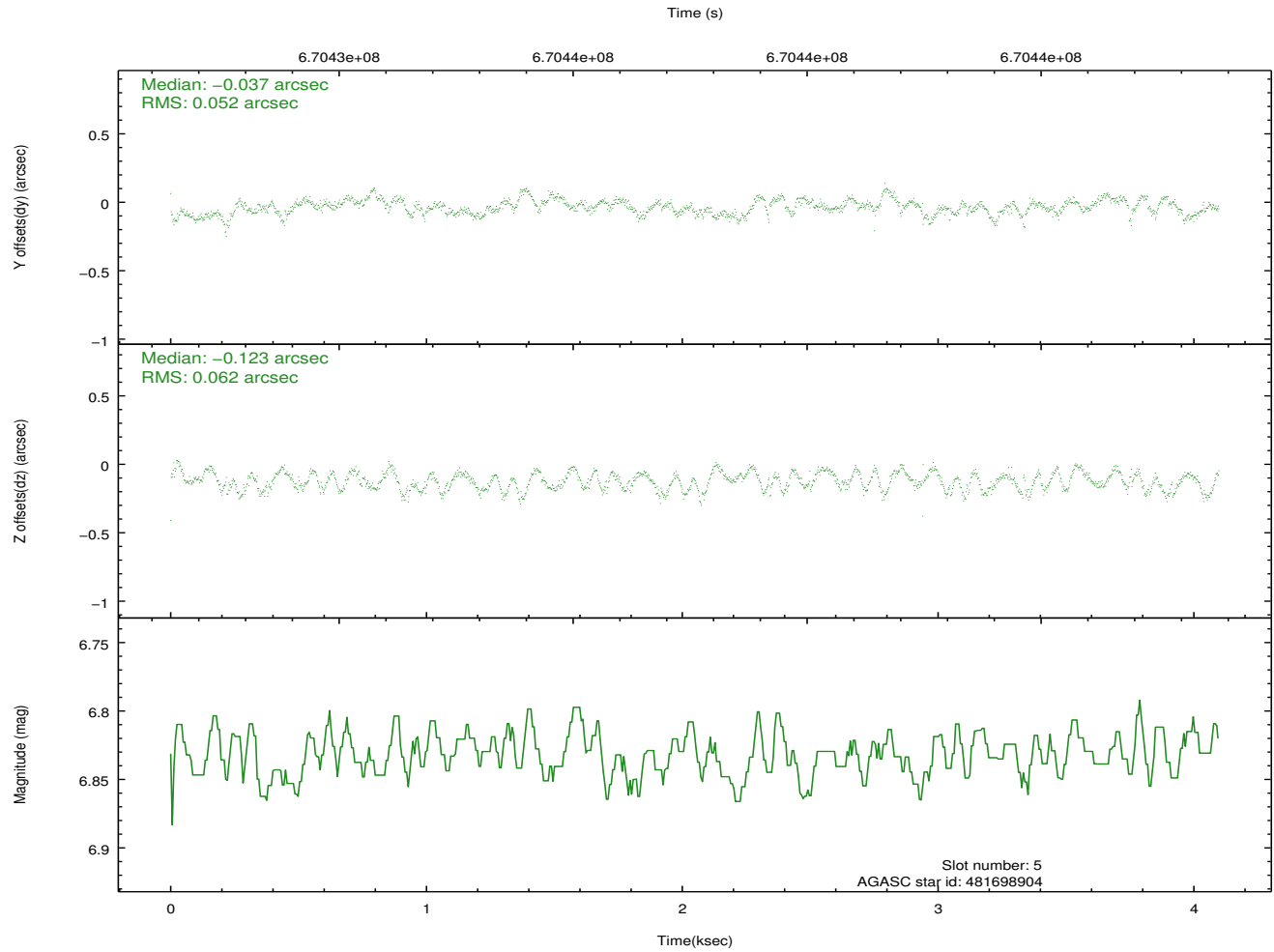
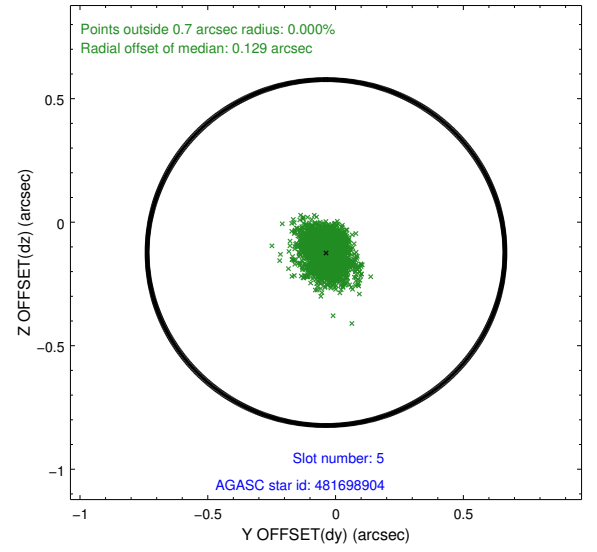
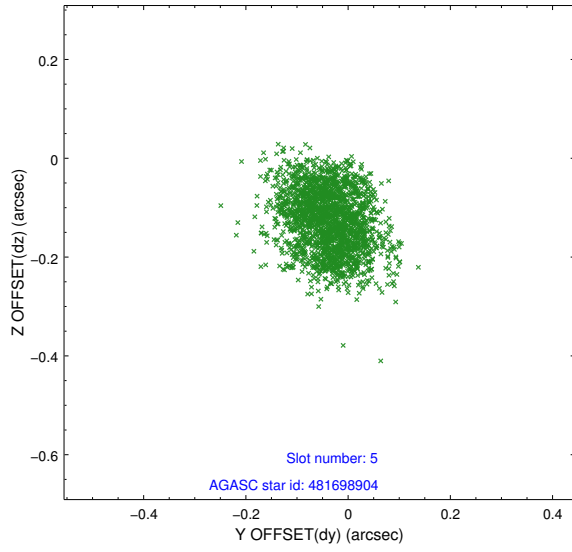
2.4.1 Slot 3



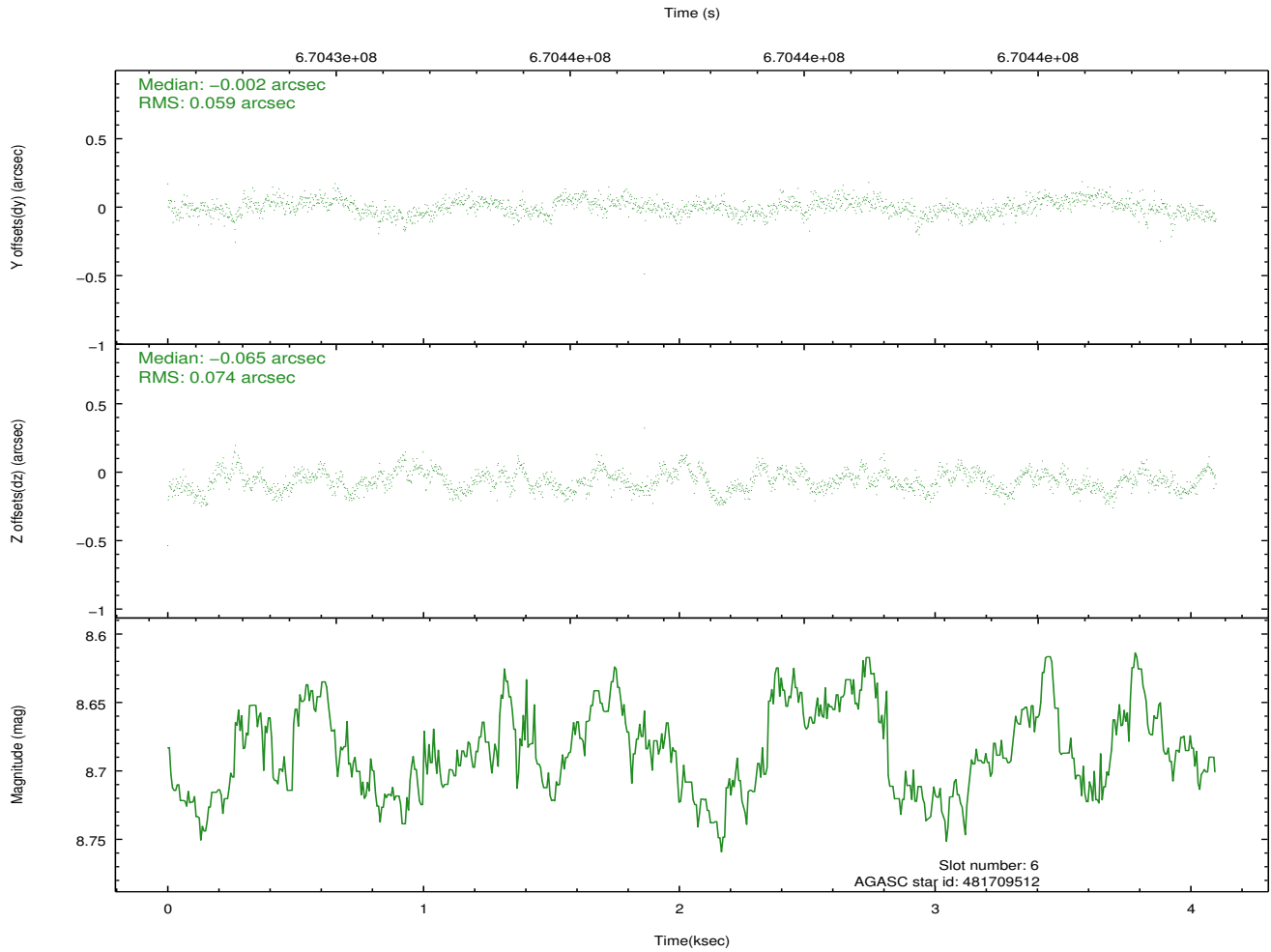
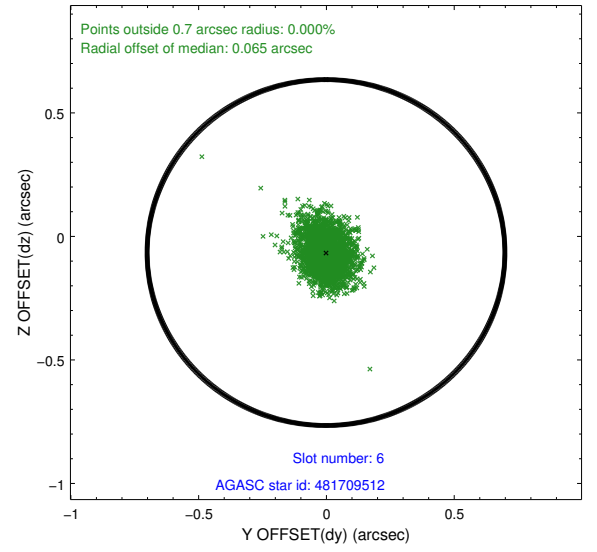
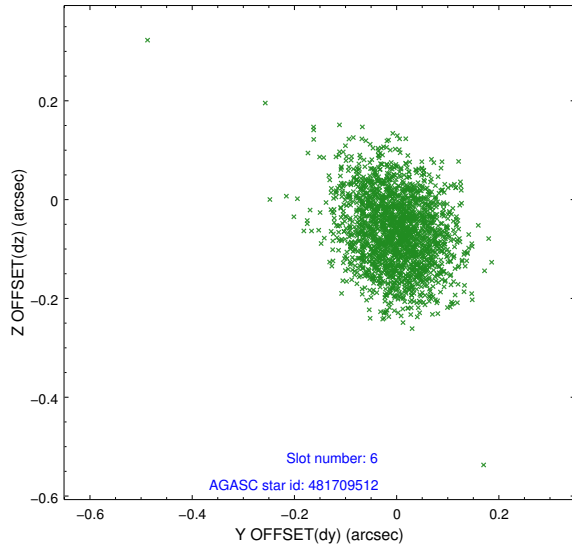
2.4.2 Slot 4



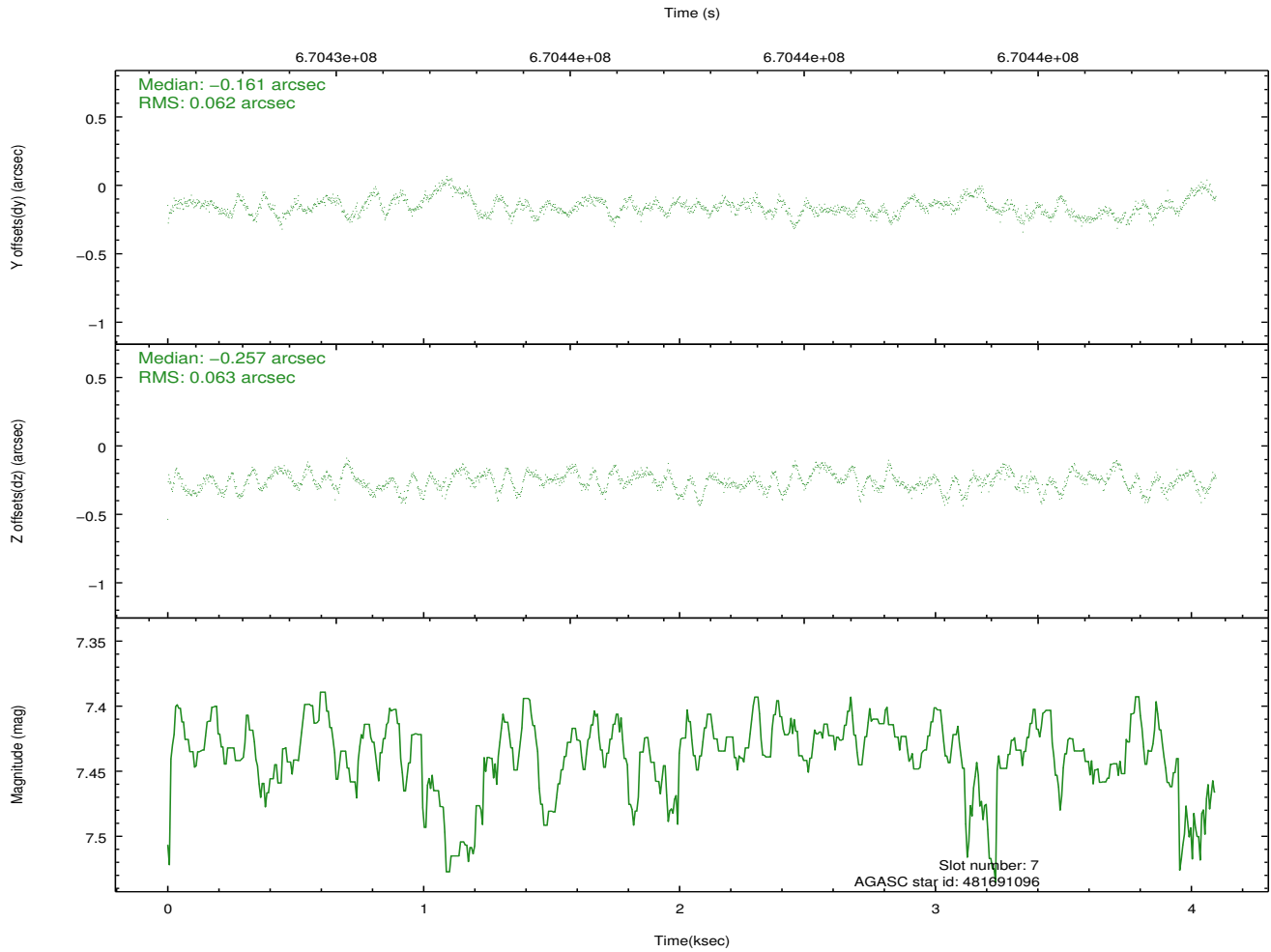
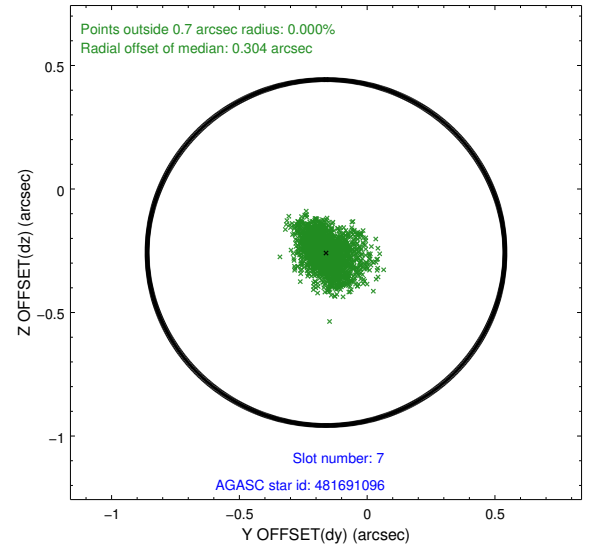
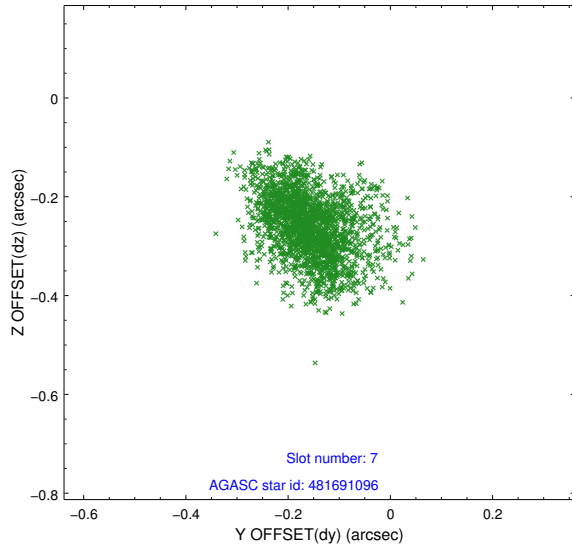
2.4.3 Slot 5



2.4.4 Slot 6

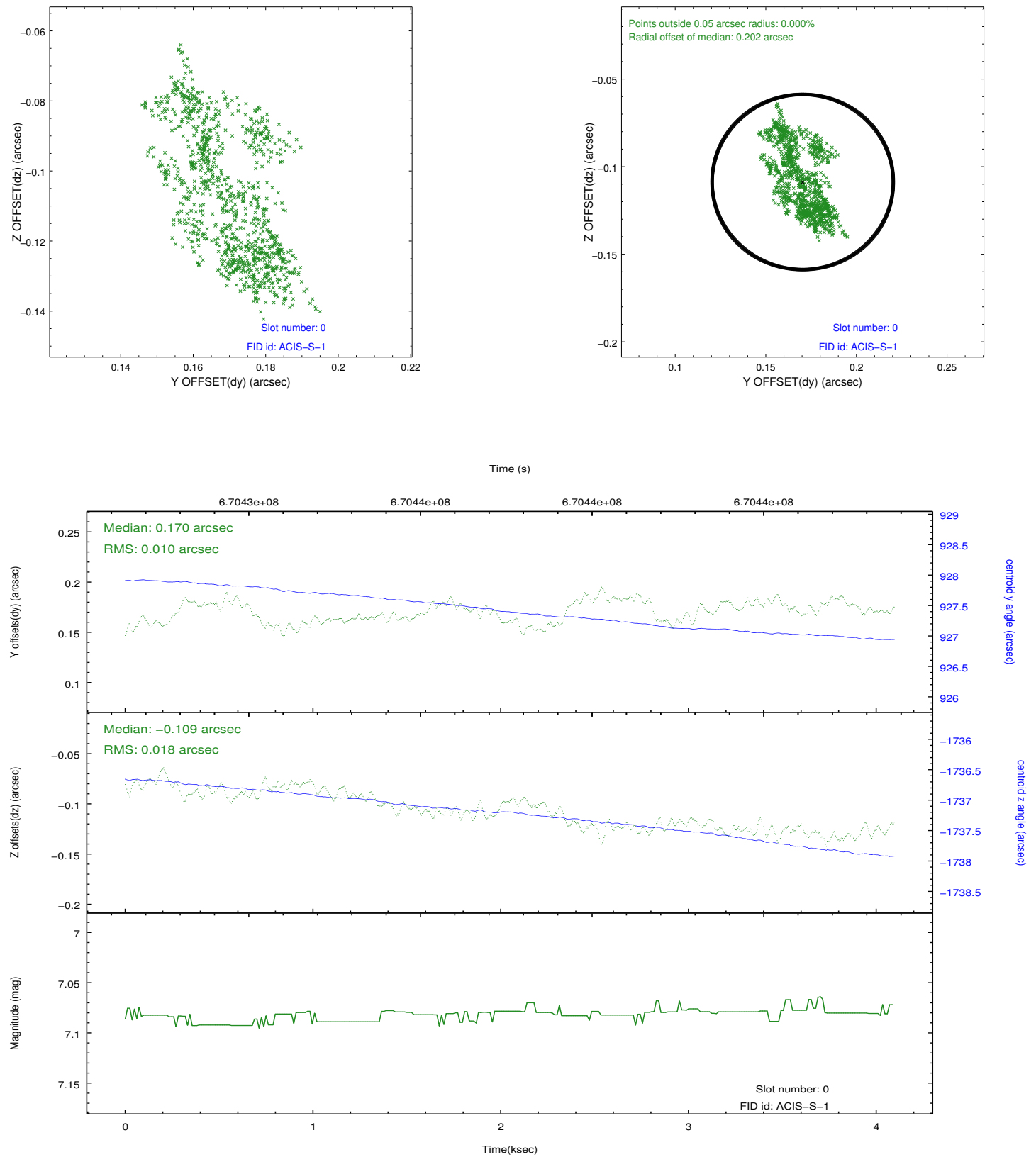


2.4.5 Slot 7

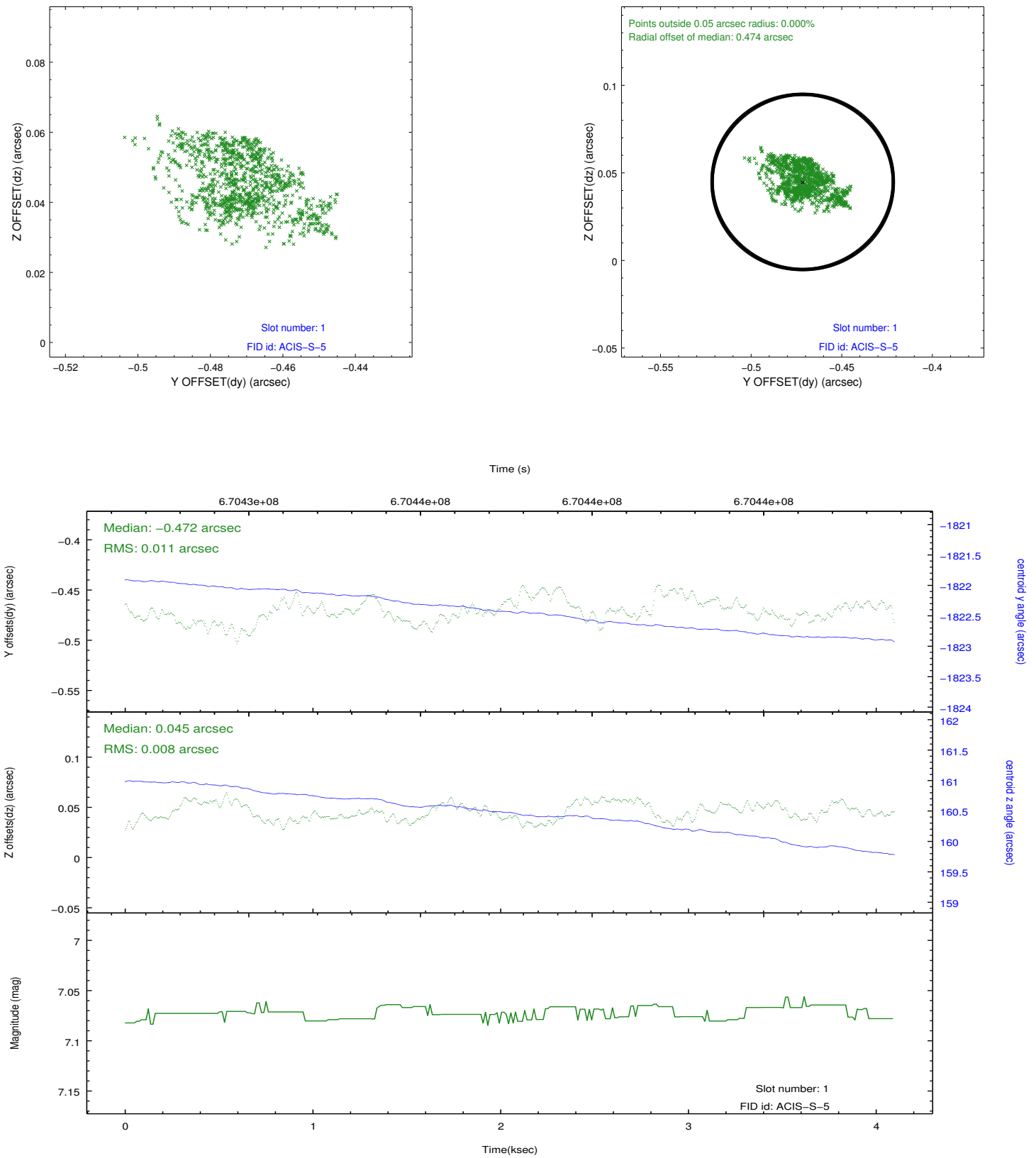


2.5 FID Slots

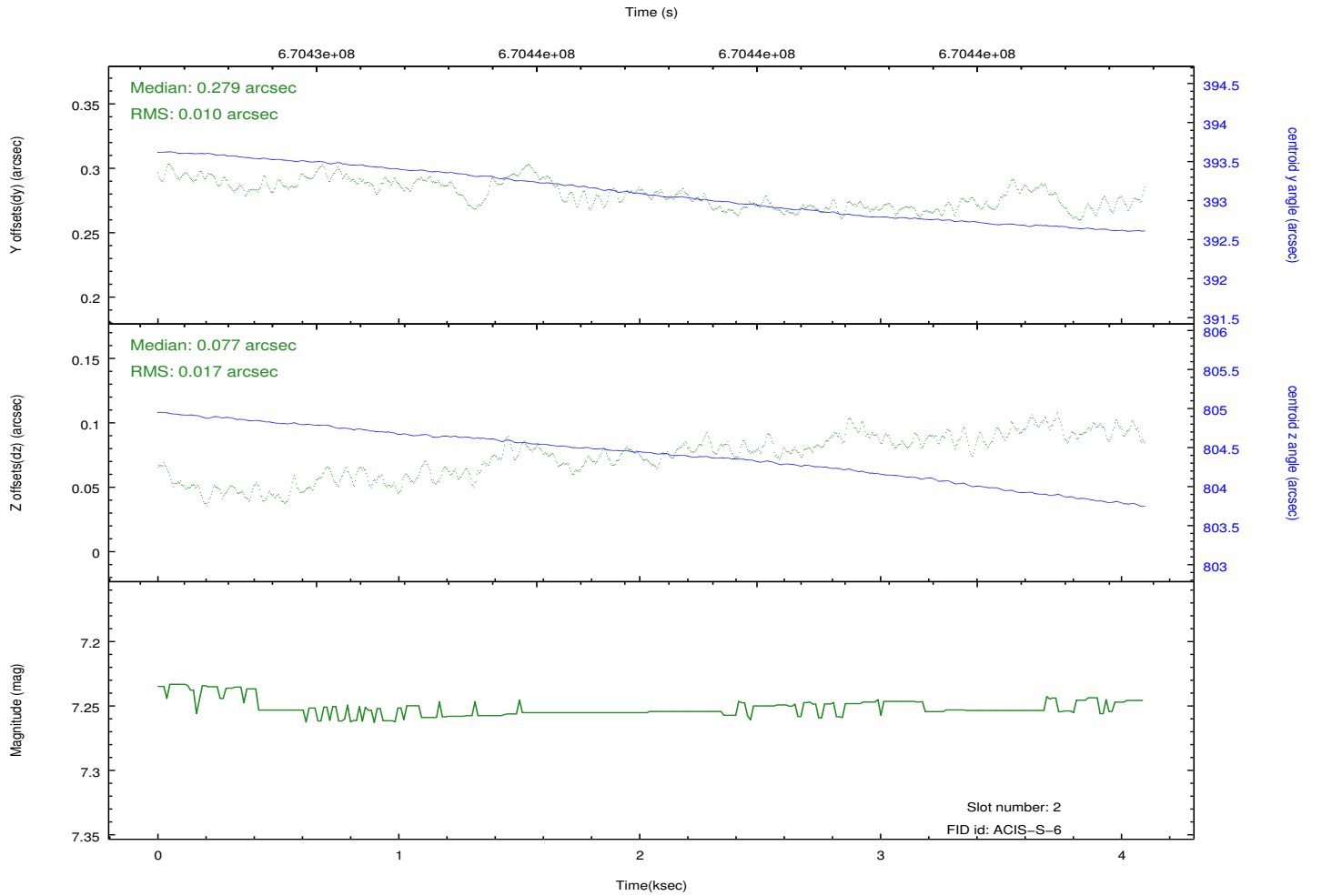
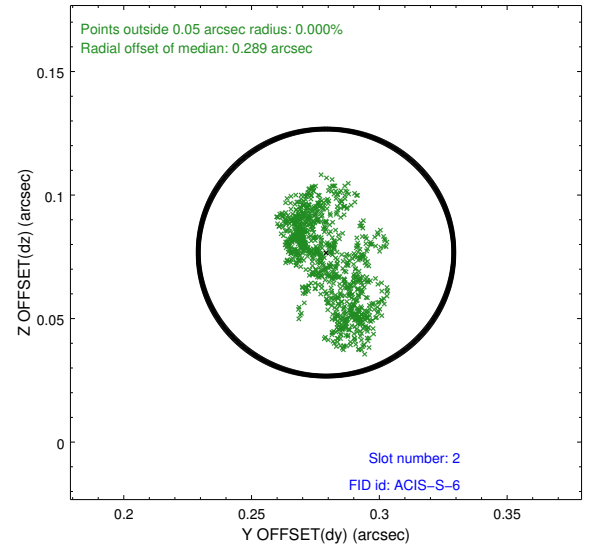
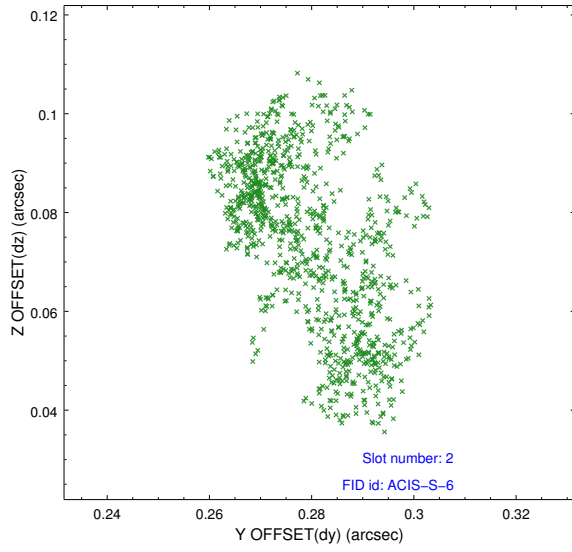
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2019.04.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.0698002772331

A.2 Comments