

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22162 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Apr 1 2019

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1 Front

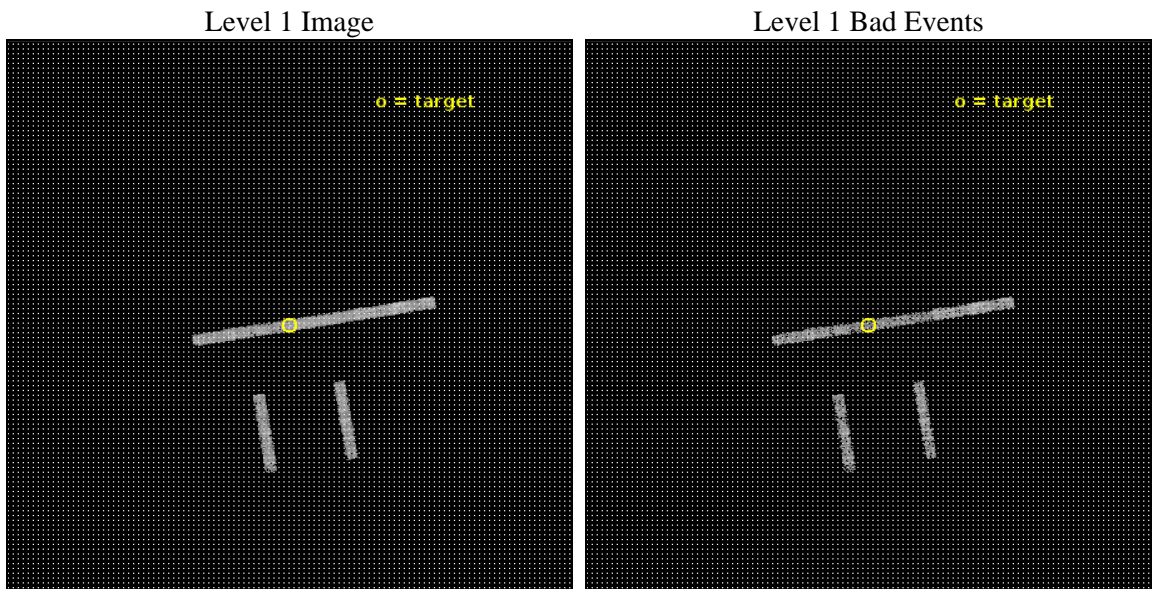
seq_num	703706	Sequence number
obs_id	22162	Observation id
title	Chandra Observations of the Young Gamma-Ray AGN TXS 0128+554	Propo
observer	Matthew Lister	Principal investigator
object	TXS 0128+554	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	22.8075	Observer's specified target RA [deg]
dec_targ	55.753611	Observer's specified target Dec [deg]
ra_nom	22.810982646143	Nominal RA [deg]
dec_nom	55.75668407443	Nominal Dec [deg]
roll_nom	350.65375850848	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3239.3534452915	Sum of GTIs [s]
livetime	3059.9527848754	Livetime [s]
ontime2	3239.1892852783	Sum of GTIs [s]
ontime3	3239.2713652849	Sum of GTIs [s]
ontime6	3239.3124053478	Sum of GTIs [s]
ontime7	3239.3534452915	Sum of GTIs [s]
ontime8	3239.2303253412	Sum of GTIs [s]
l2events	3586	Number of level 2 events



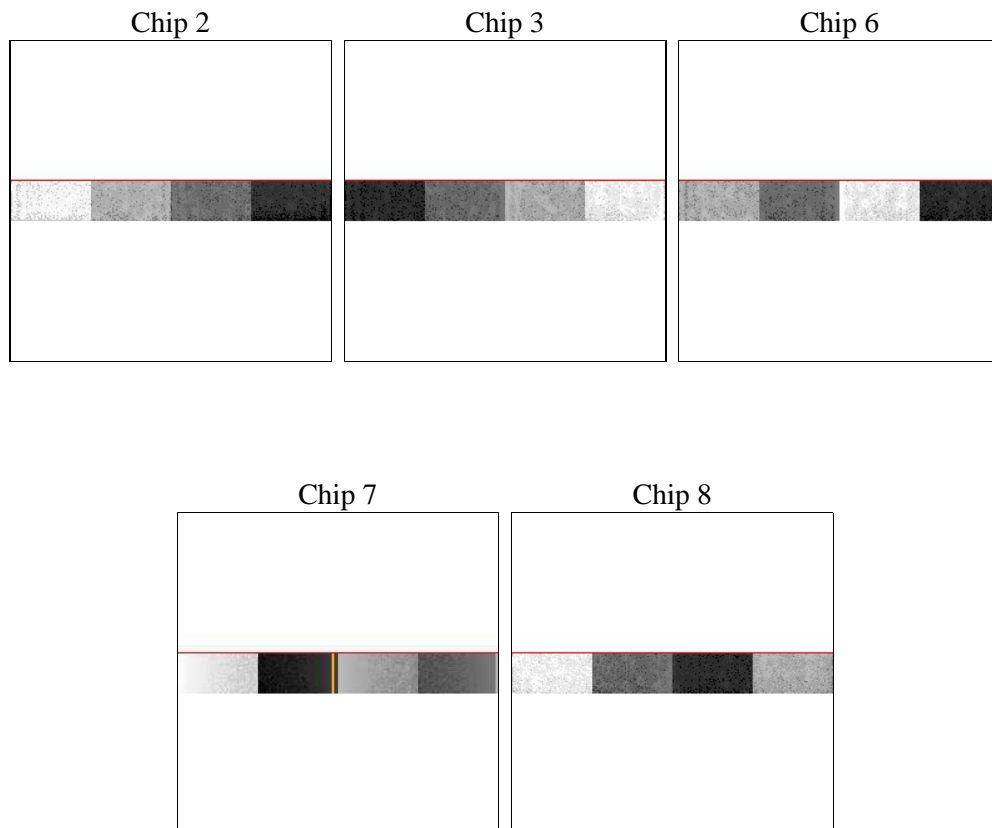
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3170.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	3239.3534452915	Sum of GTIs [s]
caldbver	4.8.2	 	ontime2	3239.1892852783	Sum of GTIs [s]
date	2019-04-01T13:05:34	Date and time of file creation	ontime3	3239.2713652849	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3239.3124053478	Sum of GTIs [s]
			ontime7	3239.3534452915	Sum of GTIs [s]
			ontime8	3239.2303253412	Sum of GTIs [s]
			l1events	21900	Number of level 1 events

2.1.4 Events

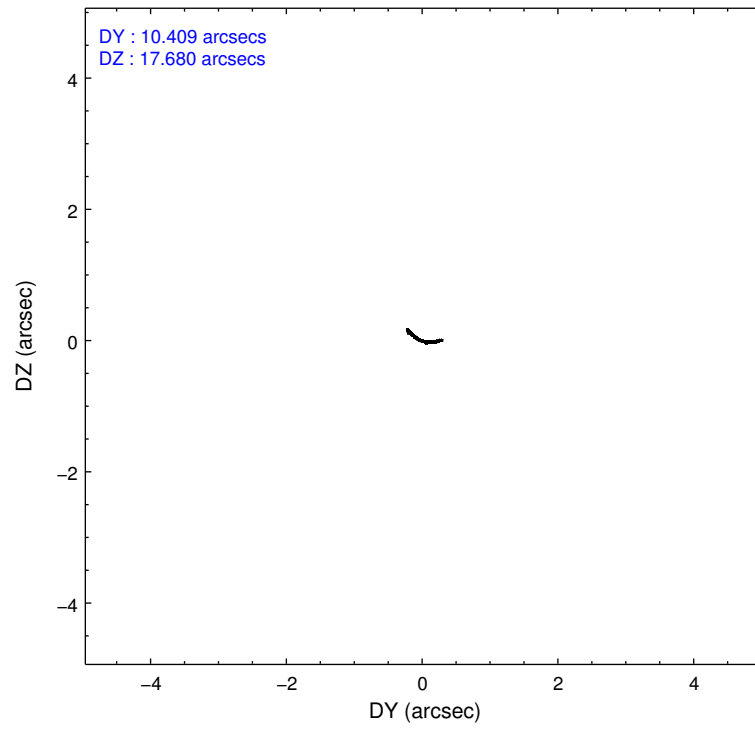
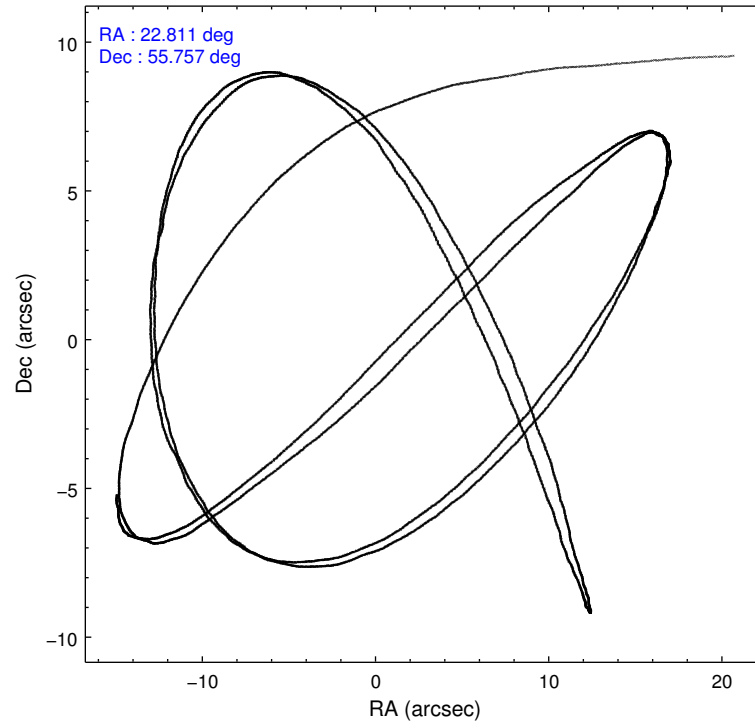
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	3407	3817	4047	4687	5942
rejected events	3005	3431	3592	2370	4941
rejected %	88%	89%	88%	50%	83%

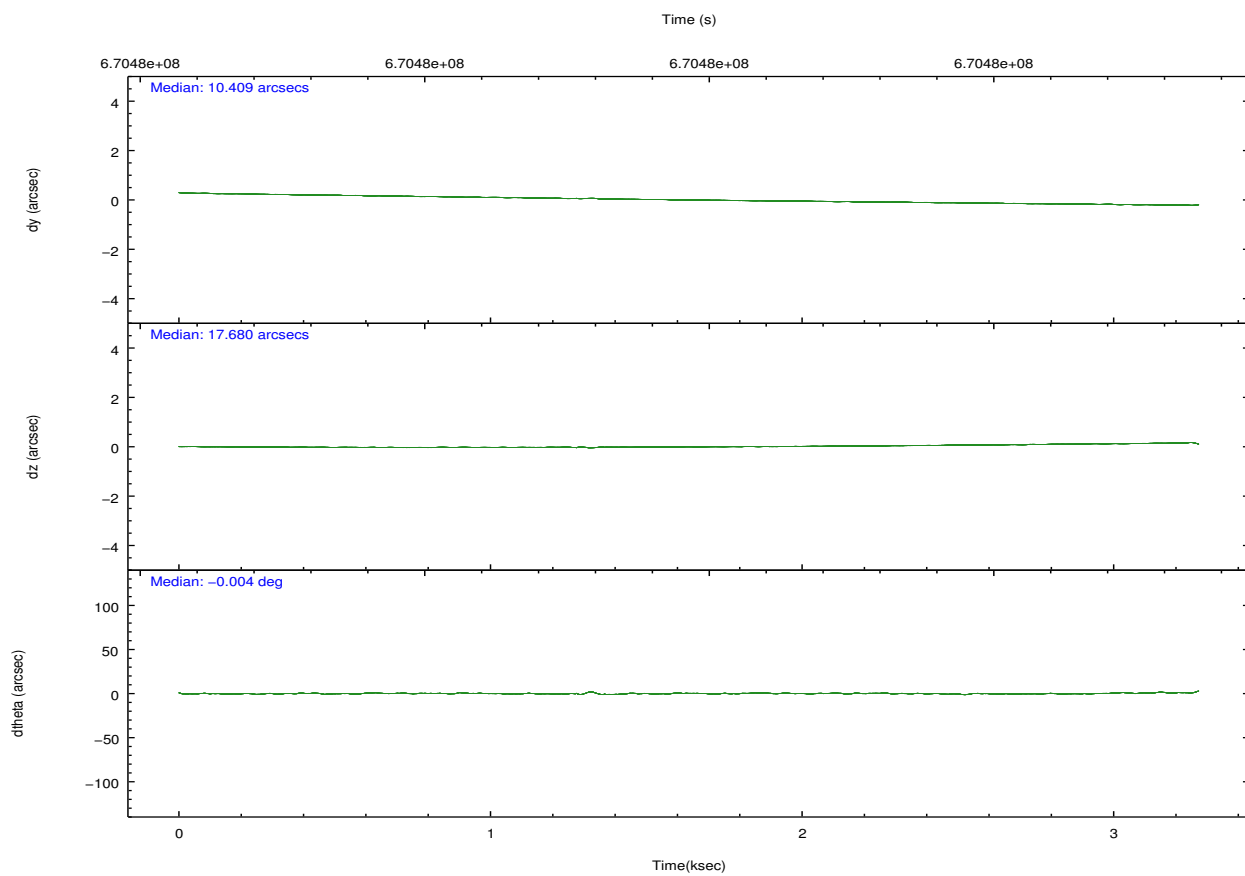
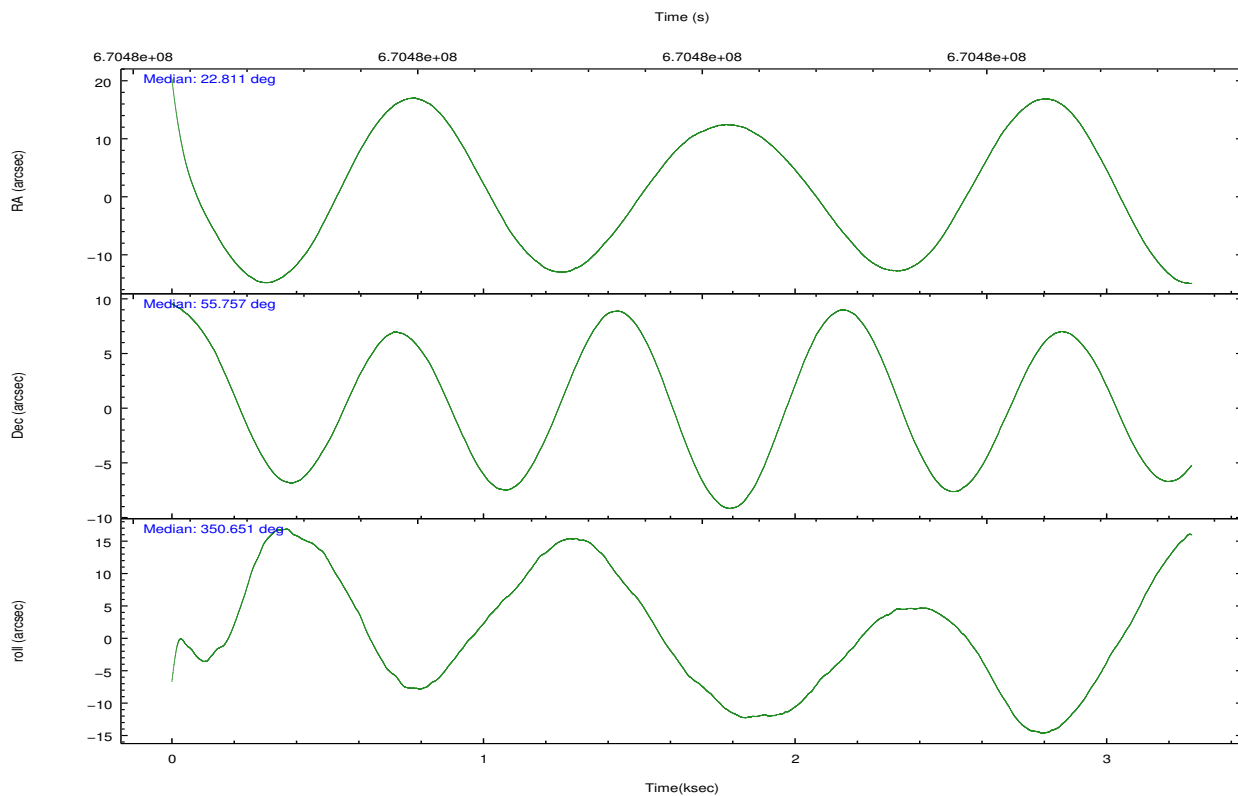
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	143	111	110	258	215
	4%	2%	2%	5%	3%
grade 1 events	3	3	1	6	1
	0%	0%	0%	0%	0%
grade 2 events	70	65	92	497	245
	2%	1%	2%	10%	4%
grade 3 events	56	79	71	243	114
	1%	2%	1%	5%	1%
grade 4 events	63	63	75	263	116
	1%	1%	1%	5%	1%
grade 5 events	107	152	136	410	237
	3%	3%	3%	8%	3%
grade 6 events	70	69	107	1059	312
	2%	1%	2%	22%	5%
grade 7 events	2895	3275	3455	1951	4702
	84%	85%	85%	41%	79%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	22.765718	22.81098264614275	CCD I2 on	O1	Y
[deg] Pointing Dec	55.746661	55.75668407443039	CCD I3 on	O2	Y
[deg] Pointing Roll	350.534539	350.6537585084787	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[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	Y	Y
[s] Observation start time (MET)	670475383.184000	670474056.22741	CCD S5 on	N	N
Observation start date	2019-04-01T03:08:34	2019-04-01T02:47:36	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	670478553.184000	670479784.95275	On-chip summing requested	N	N
Observation end date	2019-04-01T04:01:24	2019-04-01T04:23:04	Subarray requested	CUSTOM	1/8
Read mode	TIMED	TIMED	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



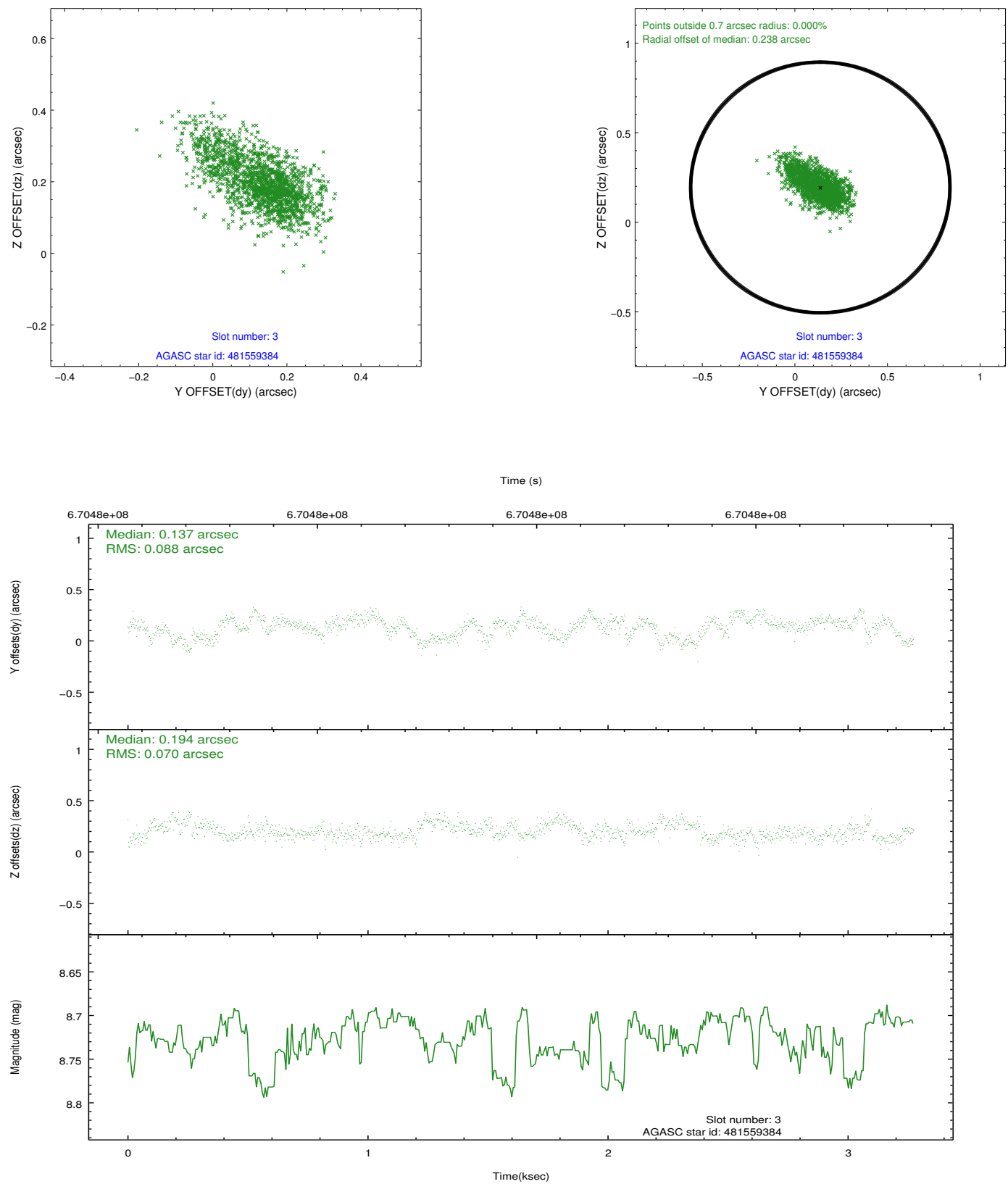


Slot Statistics

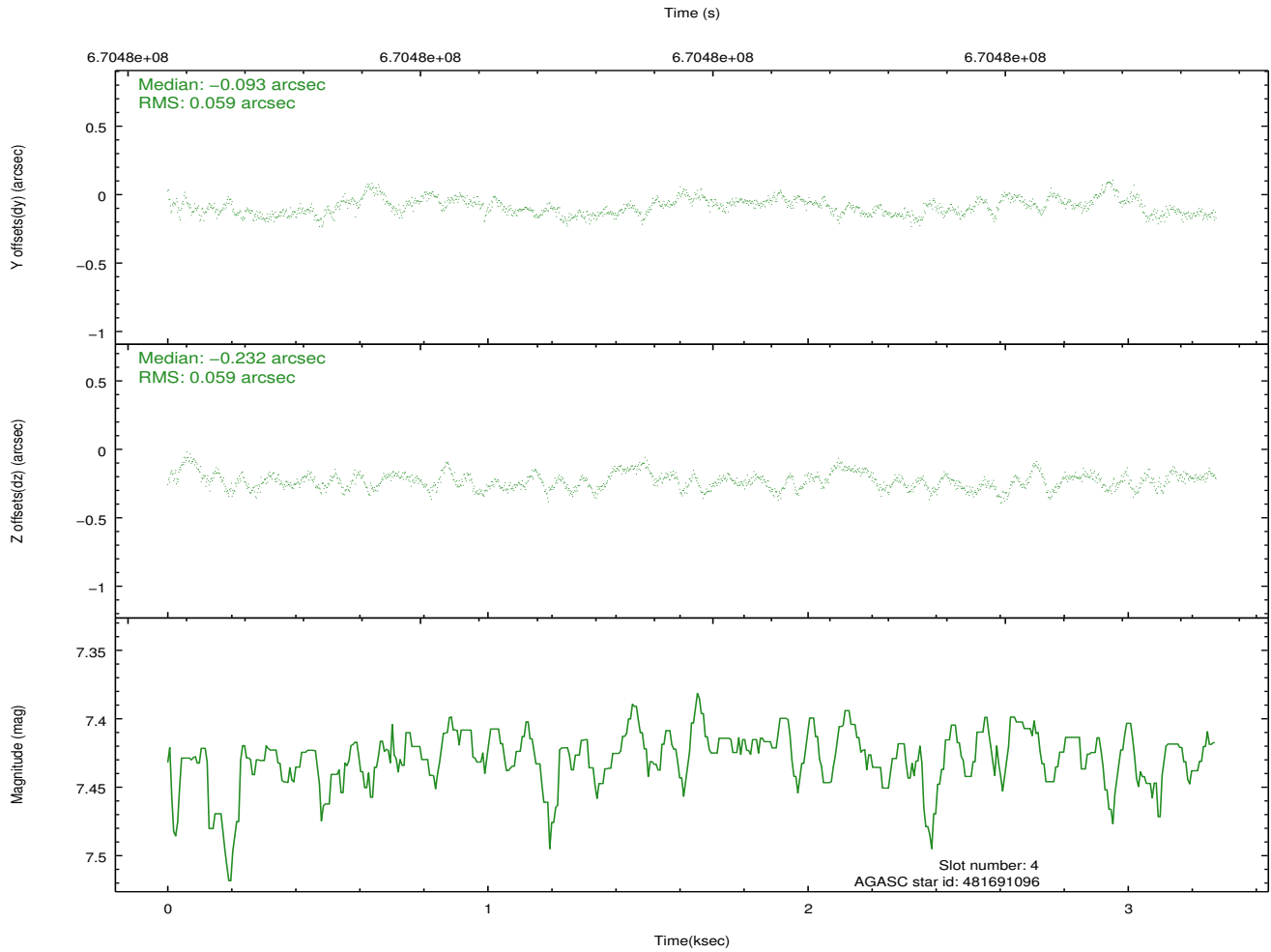
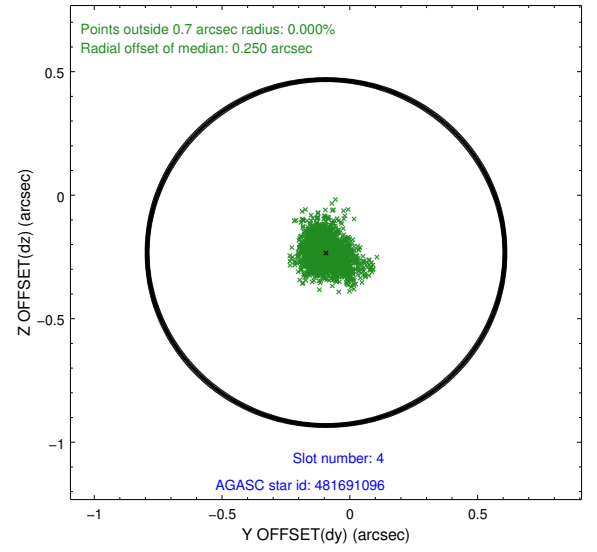
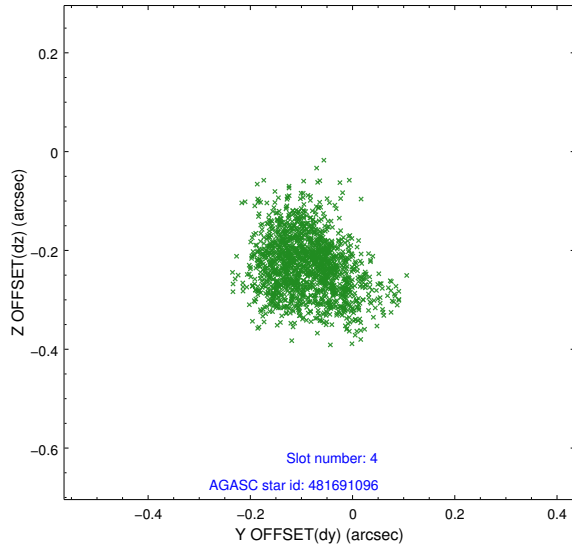
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-3	7.39	799	1.000	-0.195	-0.197	0.007	0.012	0.000000	0.000000	49.75	-1868
1	FID		ACIS-S-4	7.23	799	1.000	0.664	0.195	0.006	0.011	0.000000	0.000000	2150.81	167
2	FID		ACIS-S-5	7.22	799	1.000	-0.496	0.012	0.006	0.012	0.000000	0.000000	-1814.11	163
3	GUIDE	used	481559384	8.72	1598	1.000	0.137	0.194	0.116	0.203	22.198204	56.249087	-1417.54	1602
4	GUIDE	used	481691096	7.43	1598	1.000	-0.093	-0.232	0.089	0.146	23.857922	56.043730	1986.58	1433
5	GUIDE	used	481698904	6.84	1598	1.000	0.036	-0.149	0.111	0.188	23.338629	55.817696	1101.55	448
6	GUIDE	used	481709512	8.72	1598	1.000	0.203	0.356	0.256	0.363	23.411712	55.662405	1344.00	-76
7	GUIDE	used	482095424	8.65	1595	1.000	-0.280	-0.169	0.132	0.238	23.050822	56.259243	259.42	1914

2.4 Star Slots

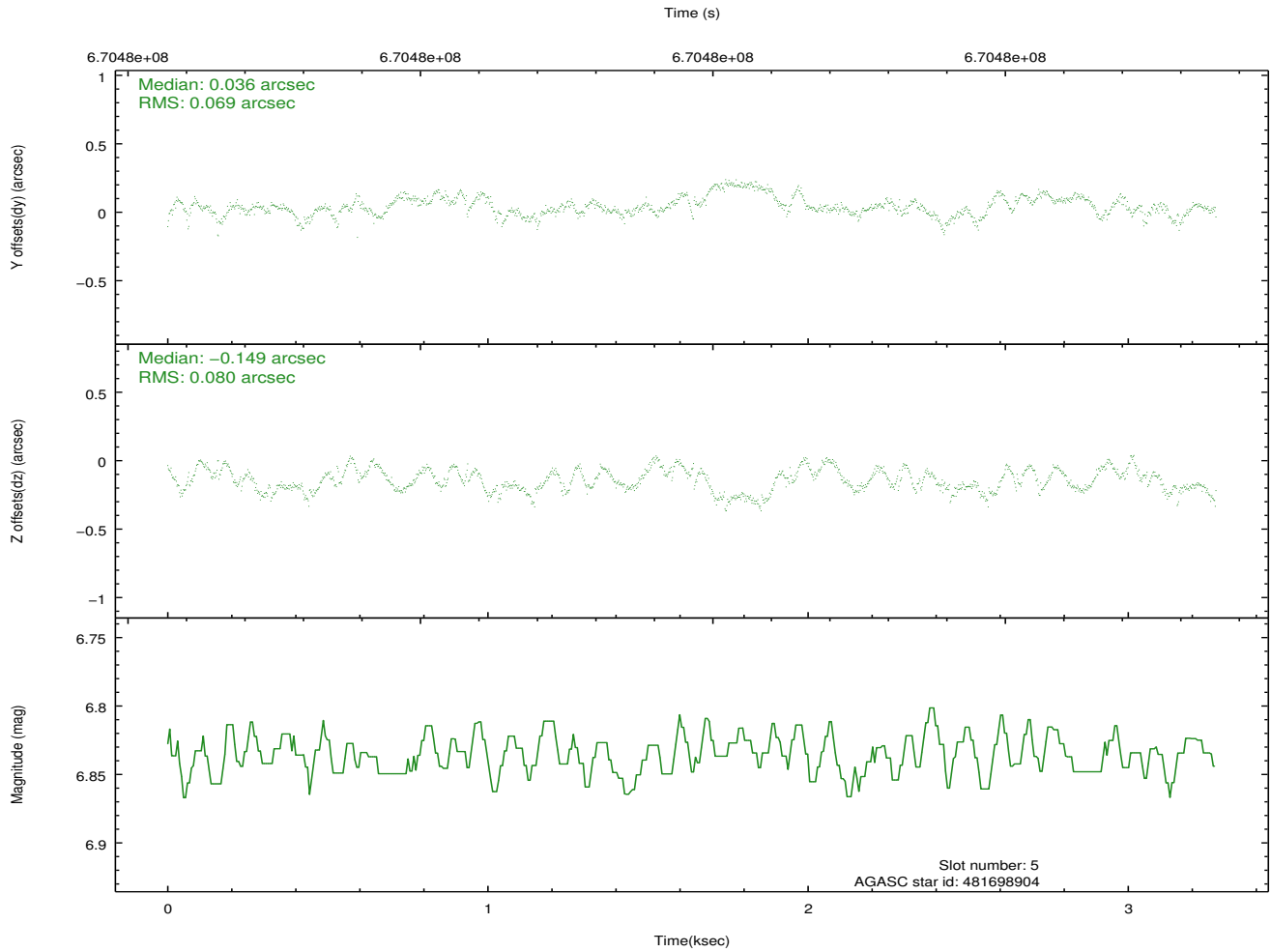
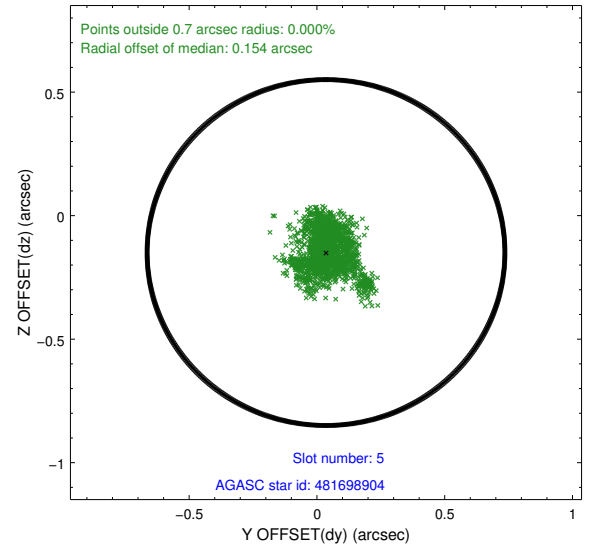
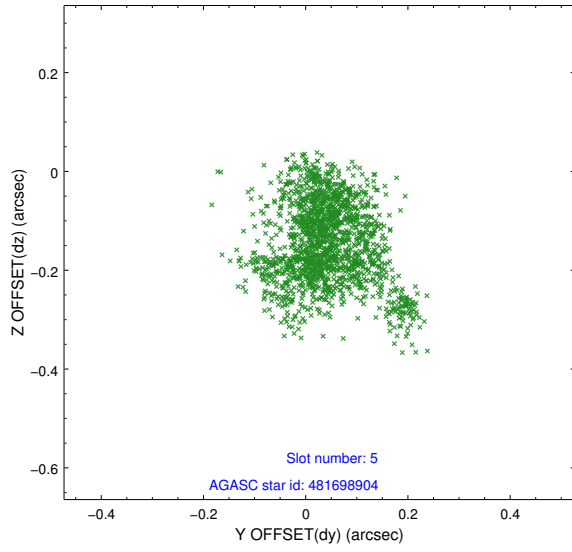
2.4.1 Slot 3



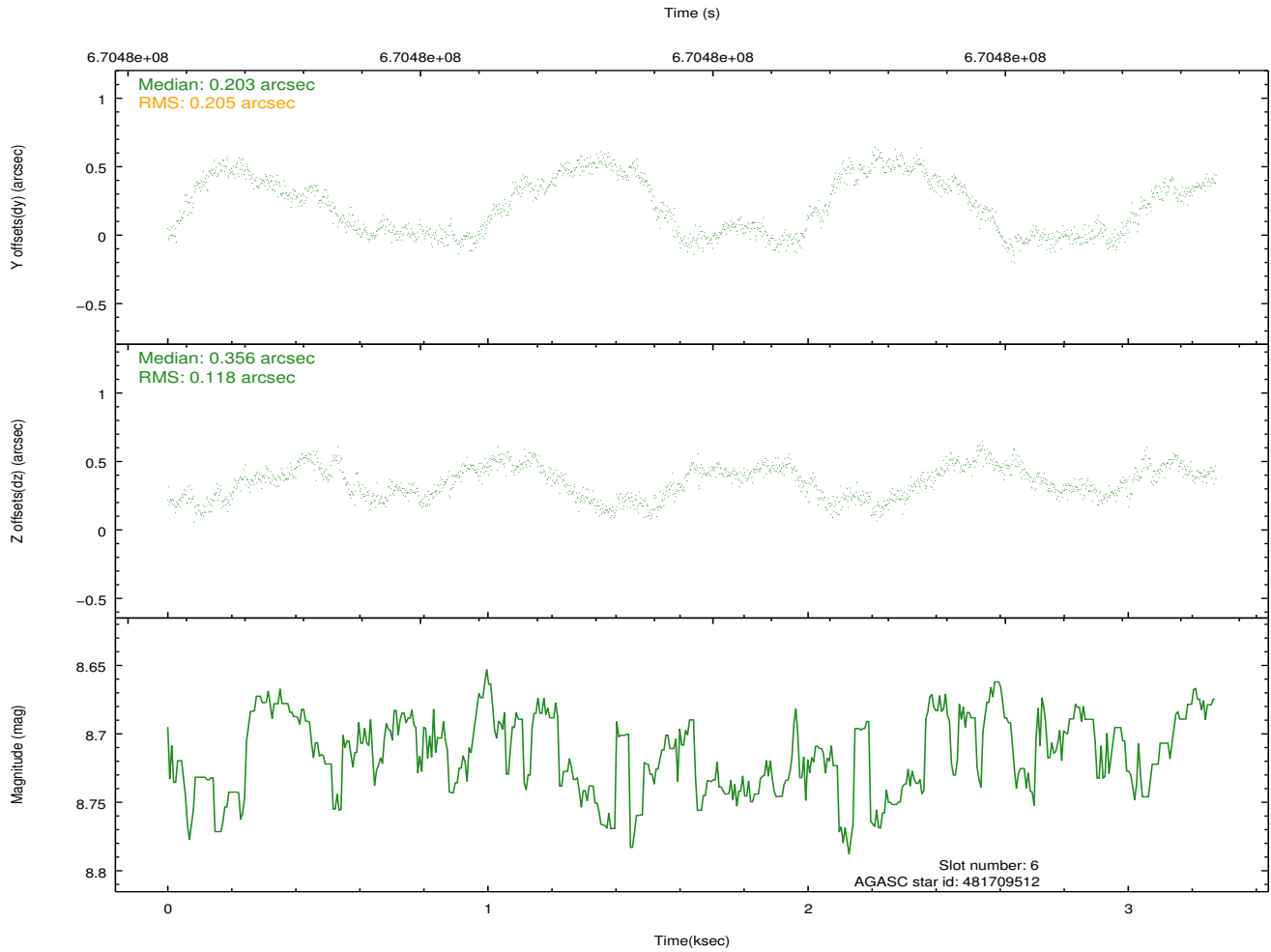
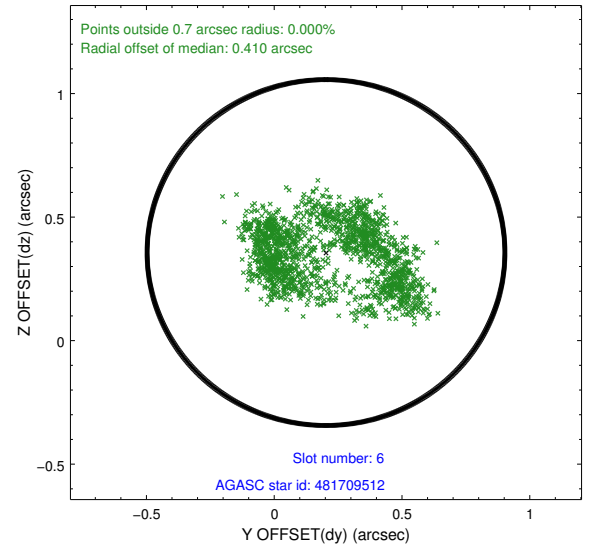
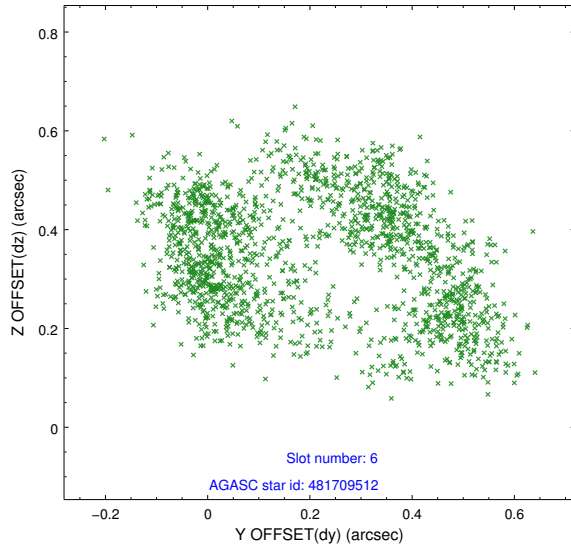
2.4.2 Slot 4



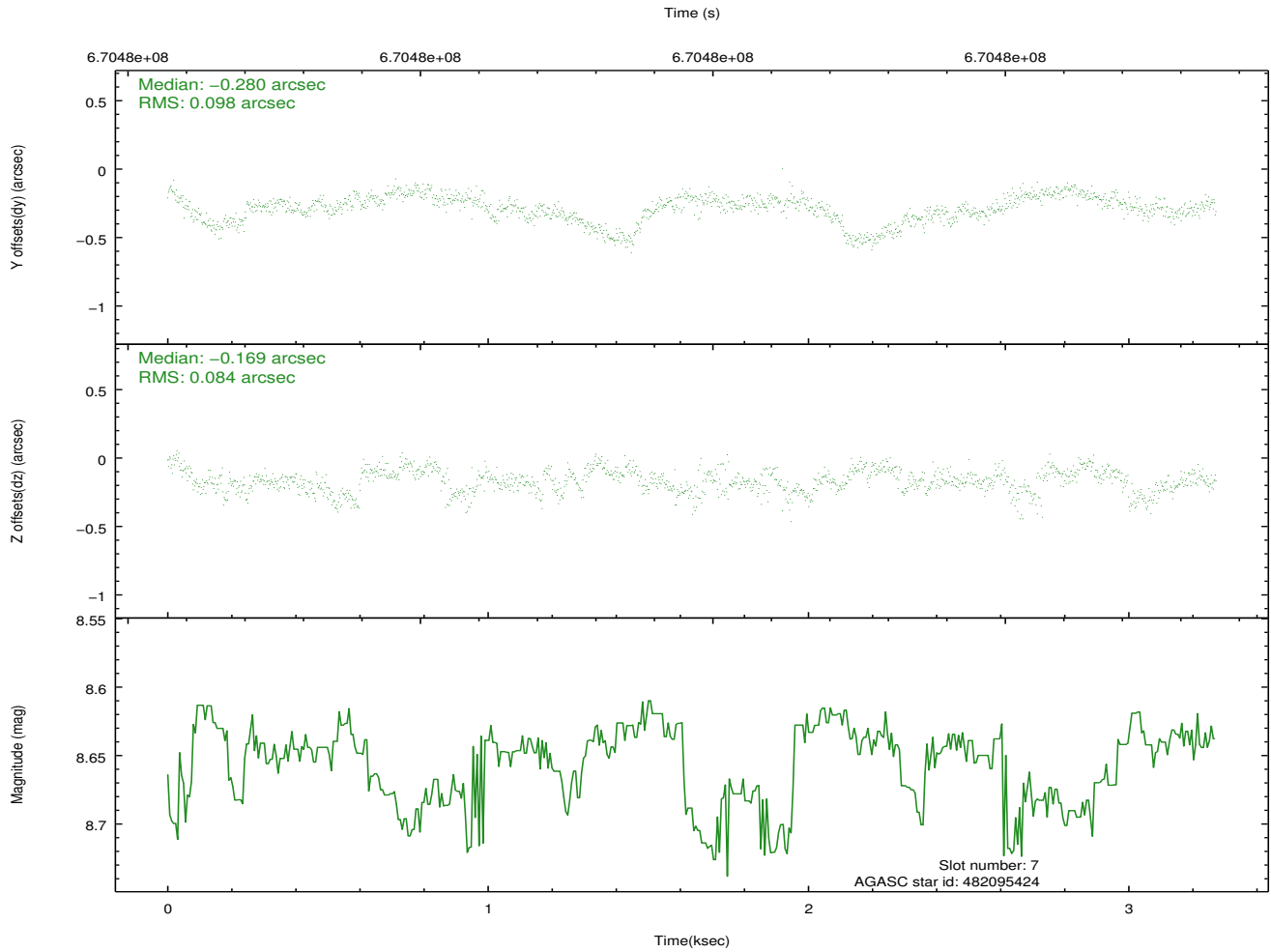
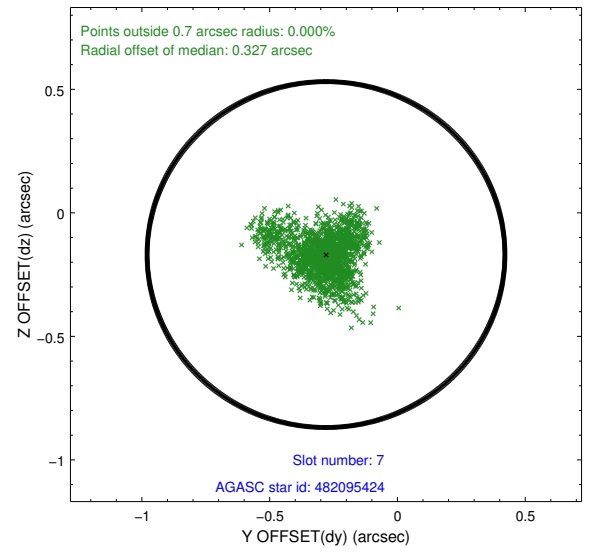
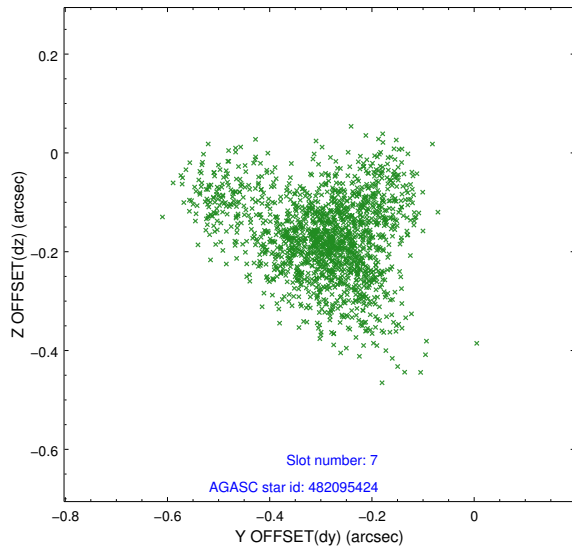
2.4.3 Slot 5



2.4.4 Slot 6

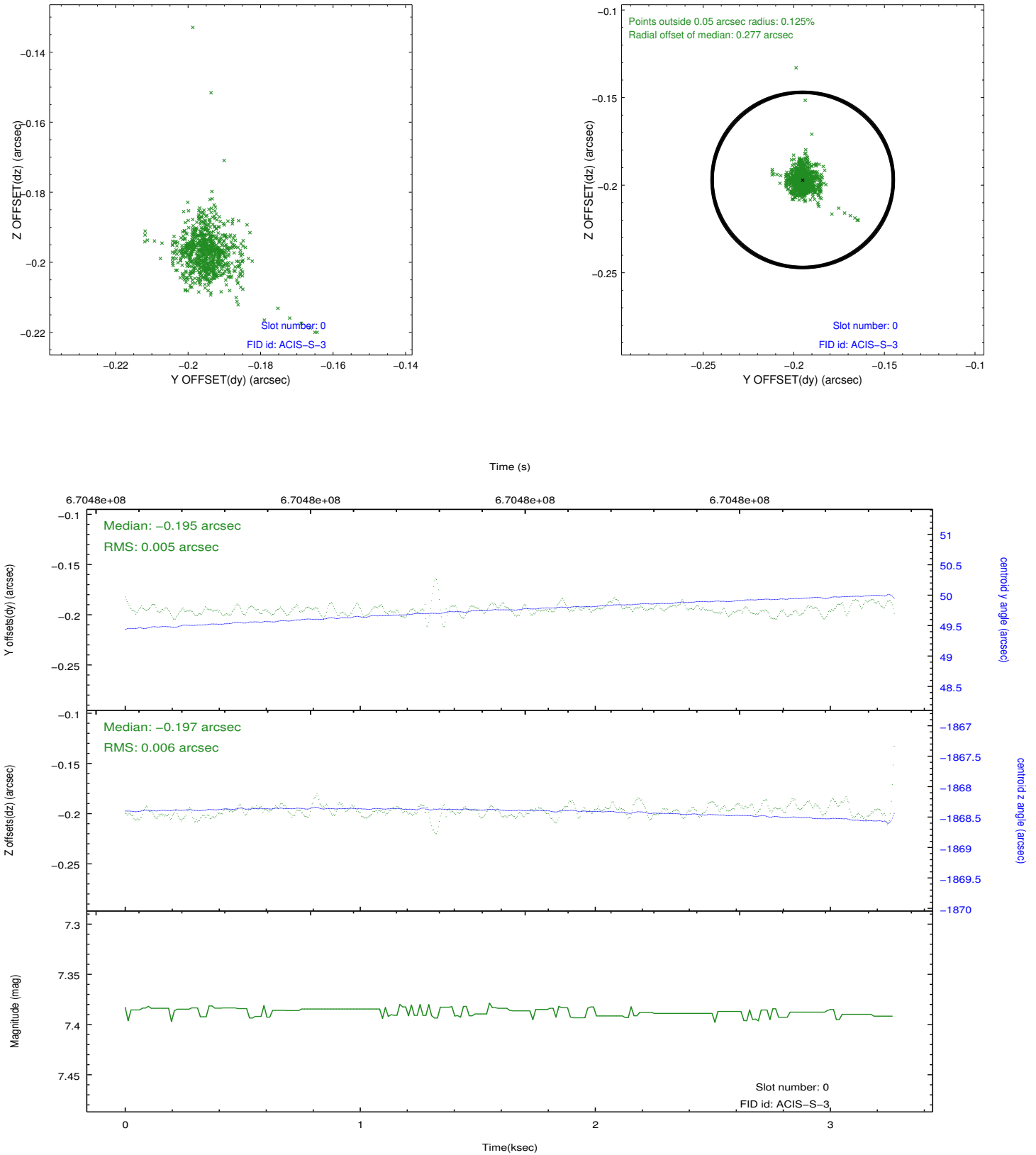


2.4.5 Slot 7

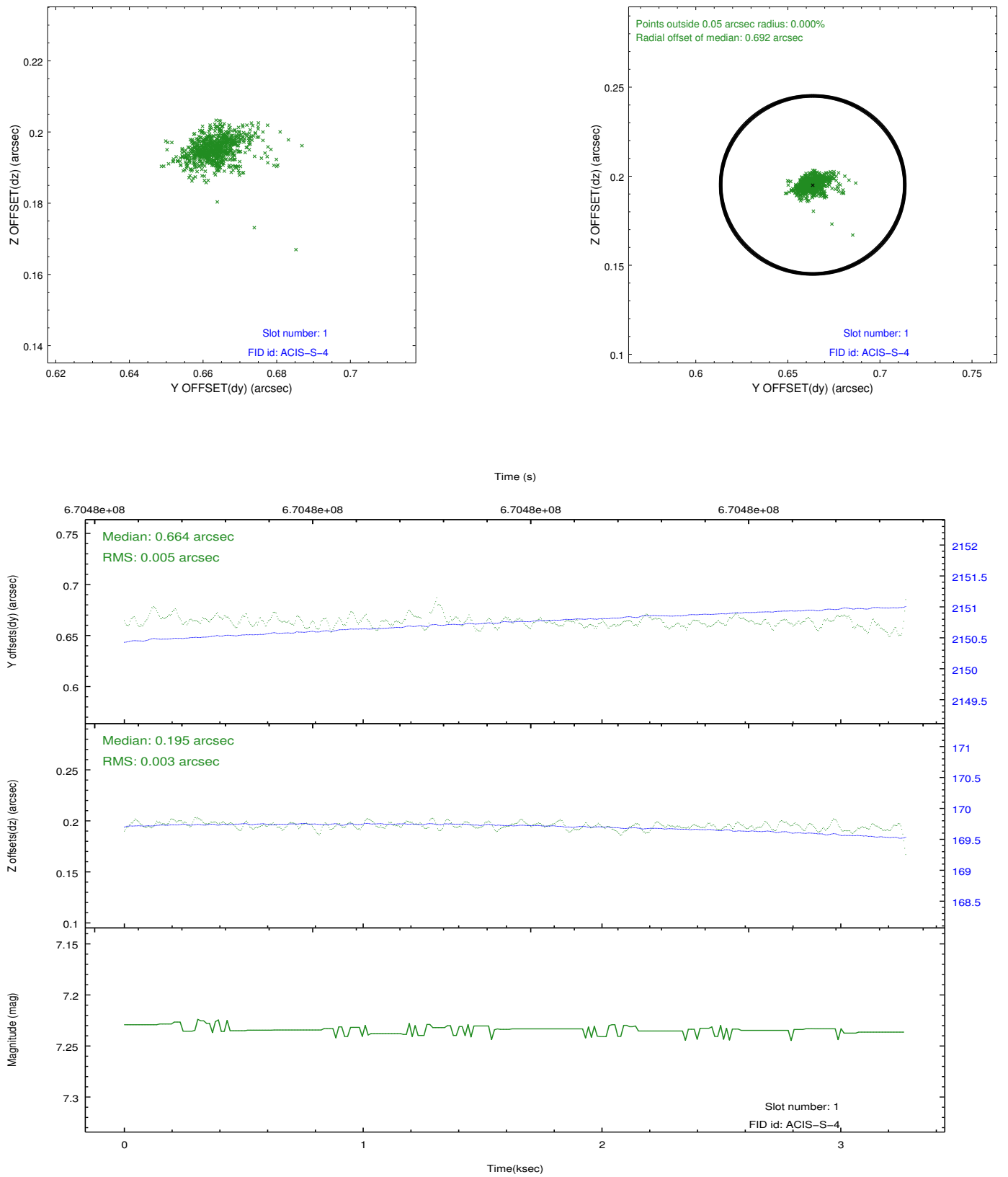


2.5 FID Slots

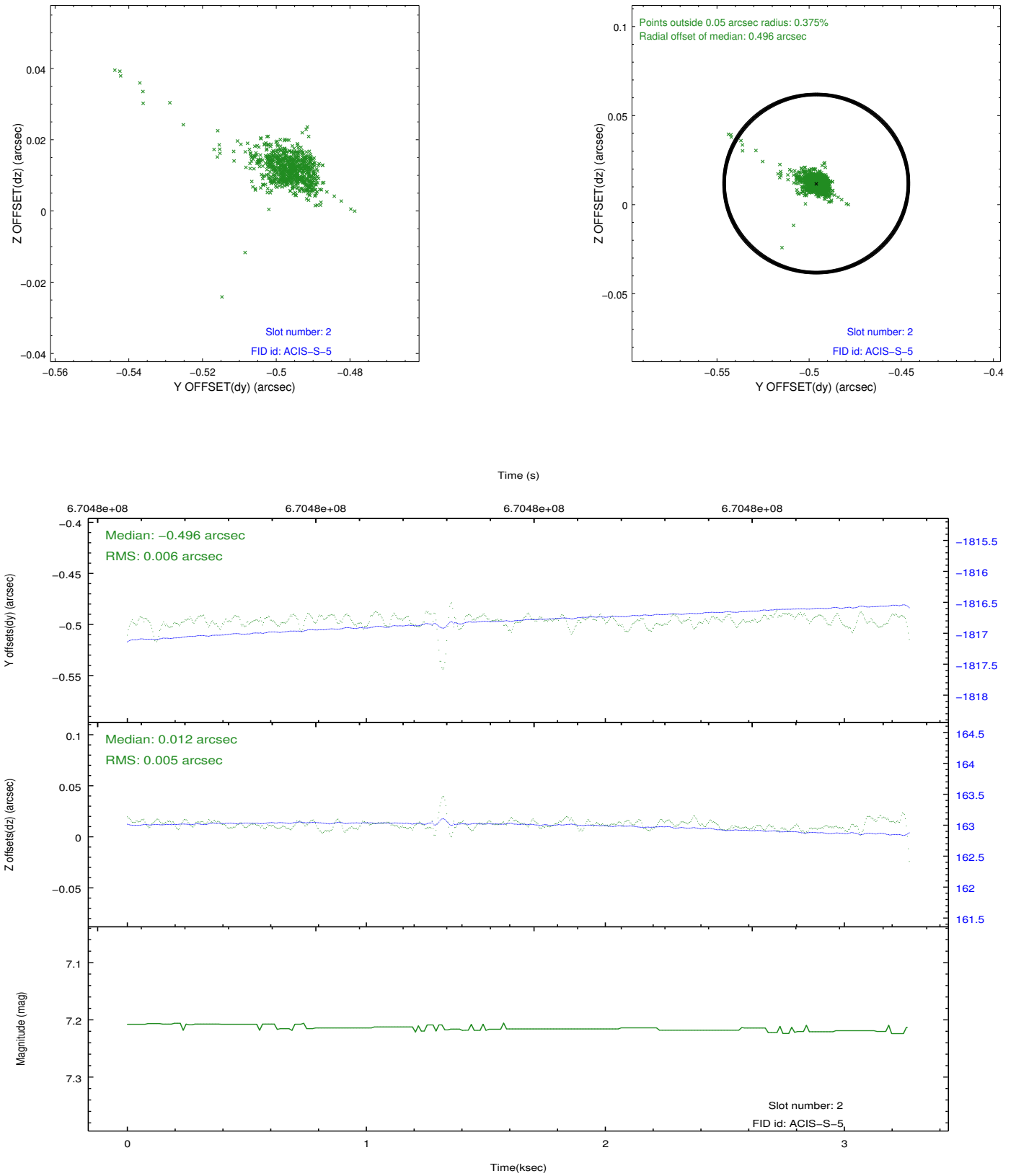
2.5.1 Slot 0



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	3.2393534452915

A.2 Comments