

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21889 - L2 Version 1
Chandra X-Ray Center

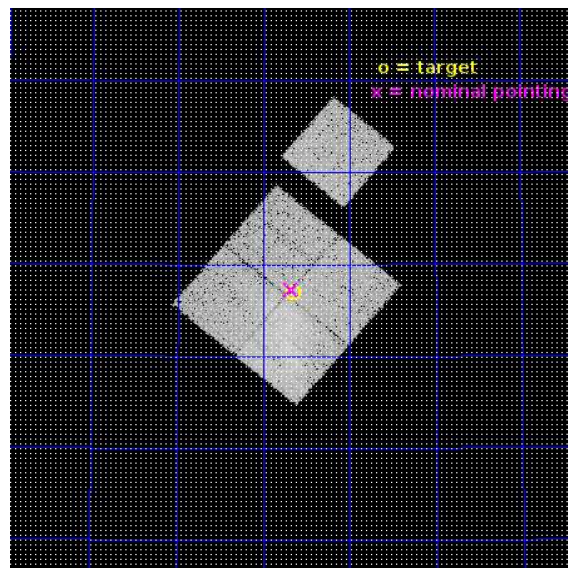
L2 Processing Date : Apr 4 2019

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1 Front

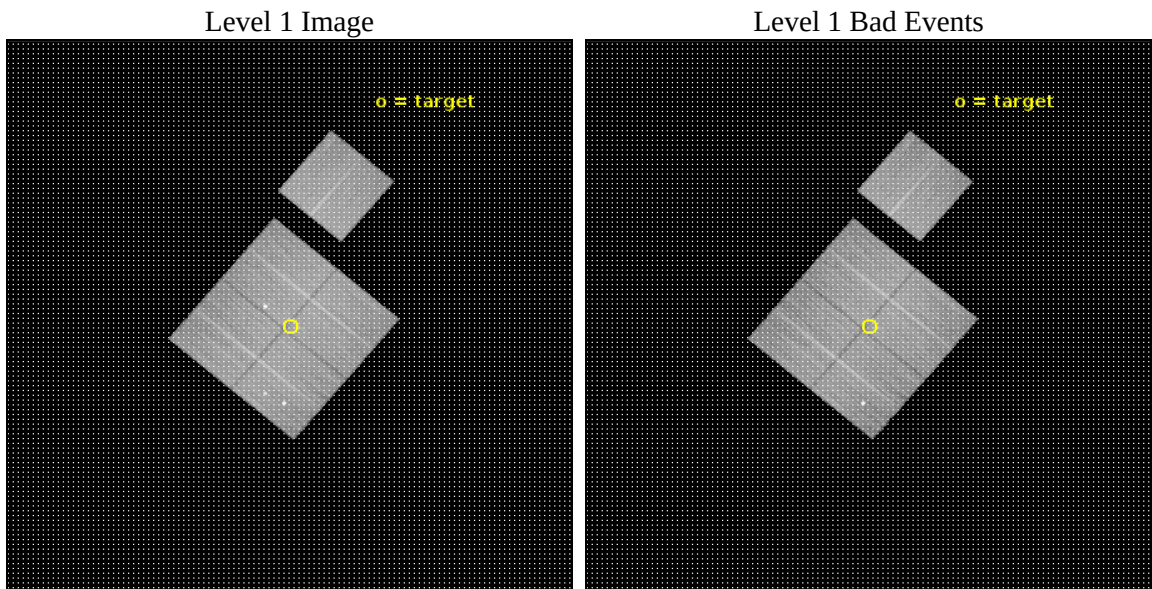
seq_num	801784	Sequence number
obs_id	21889	Observation id
title	A POSSIBLE FIRST DETECTION OF INVERSE COMPTON EMISSION FROM A GALAXY CLUSTER	Proposal title
observer	Maxim Markevitch	Principal investigator
object	CIZA J2242.8+5301	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	340.665	Observer's specified target RA [deg]
dec_targ	53.115	Observer's specified target Dec [deg]
ra_nom	340.66899242053	Nominal RA [deg]
dec_nom	53.121128042149	Nominal Dec [deg]
roll_nom	40.005509608467	Nominal Roll [deg]
revision	1	Processing version of data
ontime	21057.785987854	Sum of GTIs [s]
livetime	20782.650511406	Livetime [s]
ontime0	21060.804007649	Sum of GTIs [s]
ontime1	21063.985997915	Sum of GTIs [s]
ontime2	21057.74504745	Sum of GTIs [s]
ontime3	21057.785987854	Sum of GTIs [s]
ontime6	21067.044938207	Sum of GTIs [s]
l2events	86059	Number of level 2 events



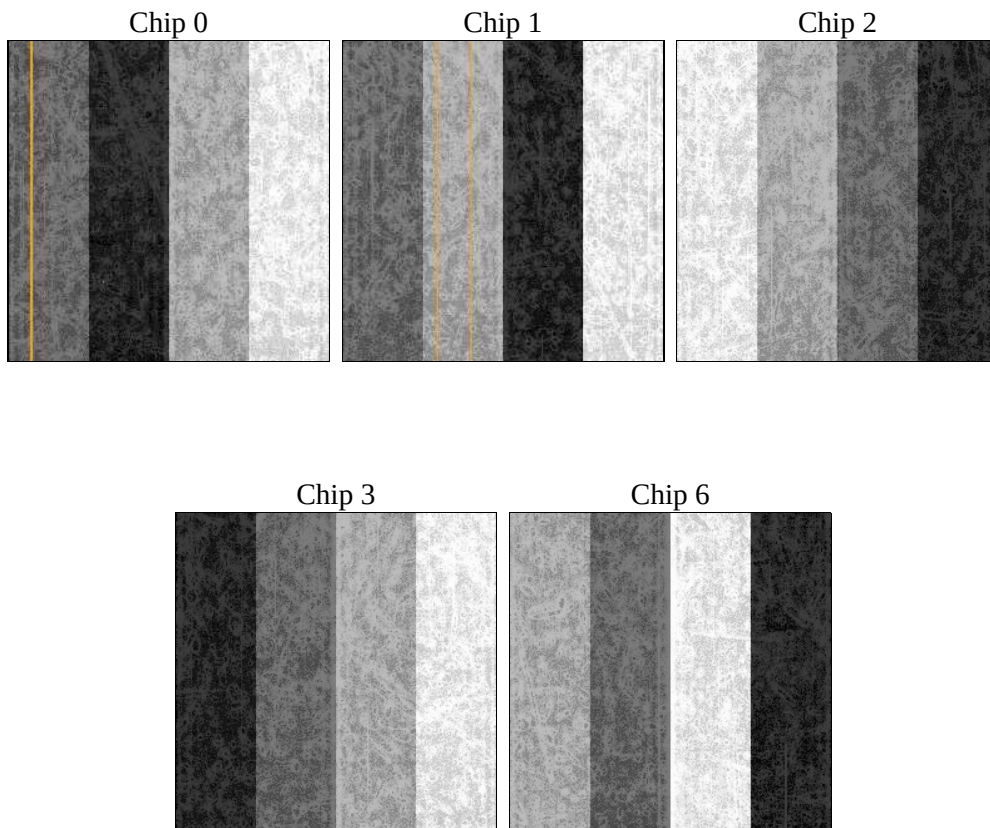
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	21057.785987854	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	21060.804007649	Sum of GTIs [s]
date	2019-04-04T13:59:06	Date and time of file creation	ontime1	21063.985997915	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	21057.74504745	Sum of GTIs [s]
			ontime3	21057.785987854	Sum of GTIs [s]
			ontime6	21067.044938207	Sum of GTIs [s]
			l1events	834579	Number of level 1 events

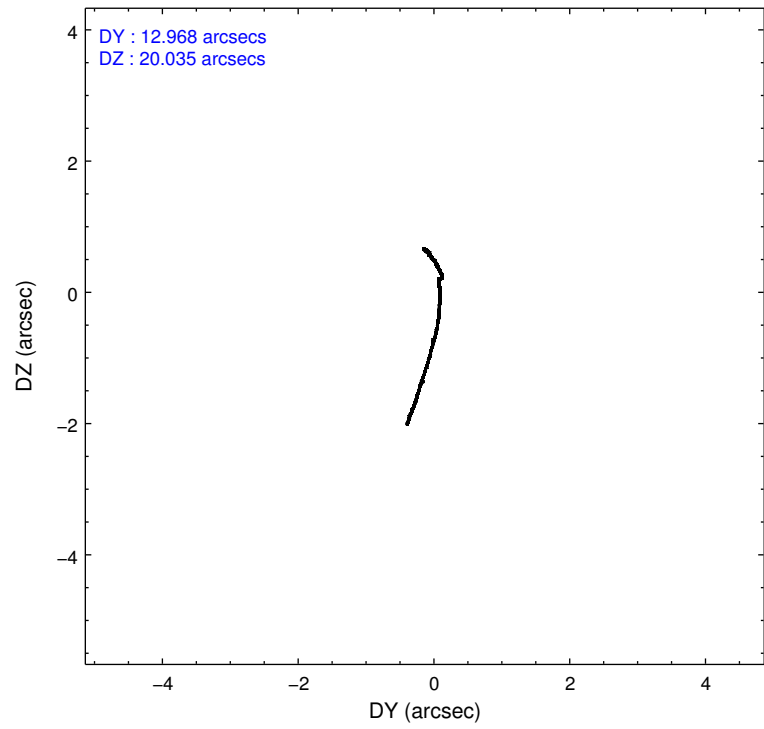
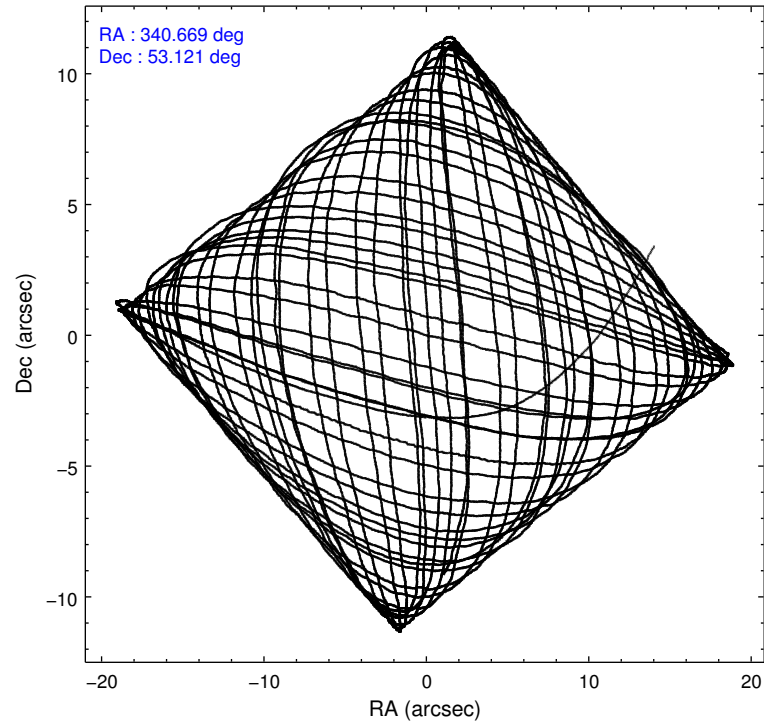
2.1.4 Events

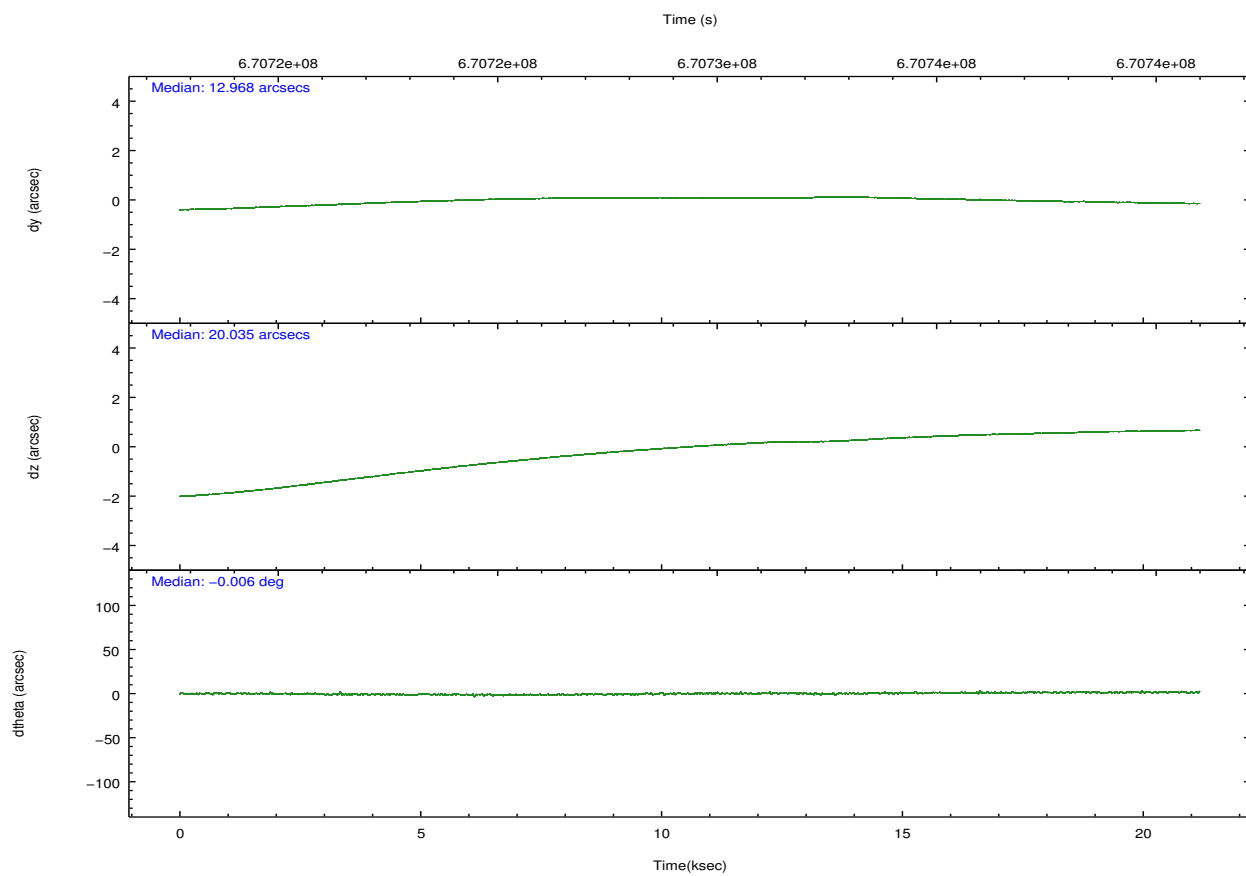
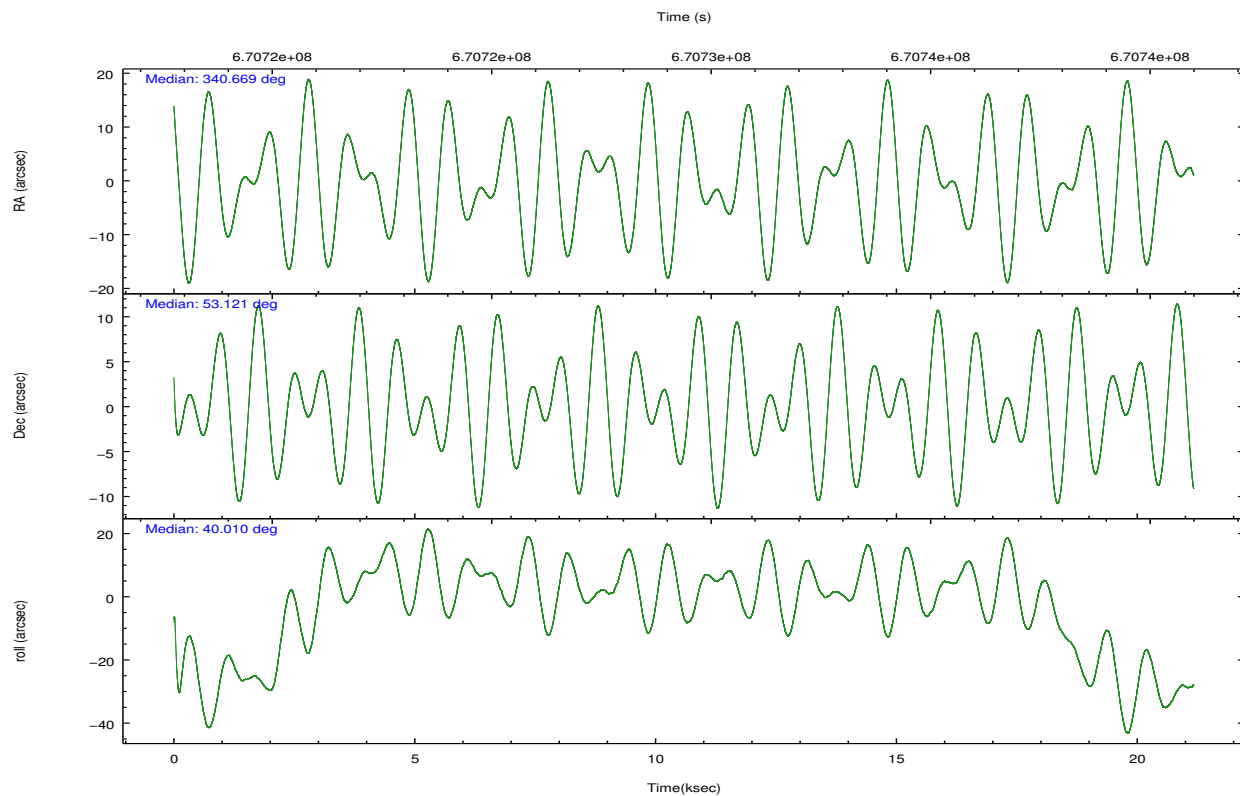
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	153437	173345	174733	167537	165527	grade 0 events	7295	15101	12480	6637	5494
rejected events	134063	142679	151271	149856	147526		4%	8%	7%	3%	3%
rejected %	87%	82%	86%	89%	89%	grade 1 events	84	6564	136	98	77
							0%	3%	0%	0%	0%
						grade 2 events	4693	6708	4210	3854	4618
							3%	3%	2%	2%	2%
						grade 3 events	1844	1962	1670	1797	1672
							1%	1%	0%	1%	1%
						grade 4 events	1747	2034	1637	1754	1614
							1%	1%	0%	1%	0%
						grade 5 events	6584	6824	6246	7390	7173
							4%	3%	3%	4%	4%
						grade 6 events	3805	4872	3477	3642	4612
							2%	2%	1%	2%	2%
						grade 7 events	127385	129280	144877	142365	140267
							83%	74%	82%	84%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	340.653434	340.6689924205295	CCD I2 on	Y	Y
[deg] Pointing Dec	53.095152	53.12112804214859	CCD I3 on	Y	Y
[deg] Pointing Roll	39.809247	40.00550960846682	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	670718959.184000	670717764.342	CCD S5 on	N	N
Observation start date	2019-04-03T22:48:10	2019-04-03T22:29:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	670739959.184000	670741255.8059	On-chip summing requested	N	N
Observation end date	2019-04-04T04:38:10	2019-04-04T05:00:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



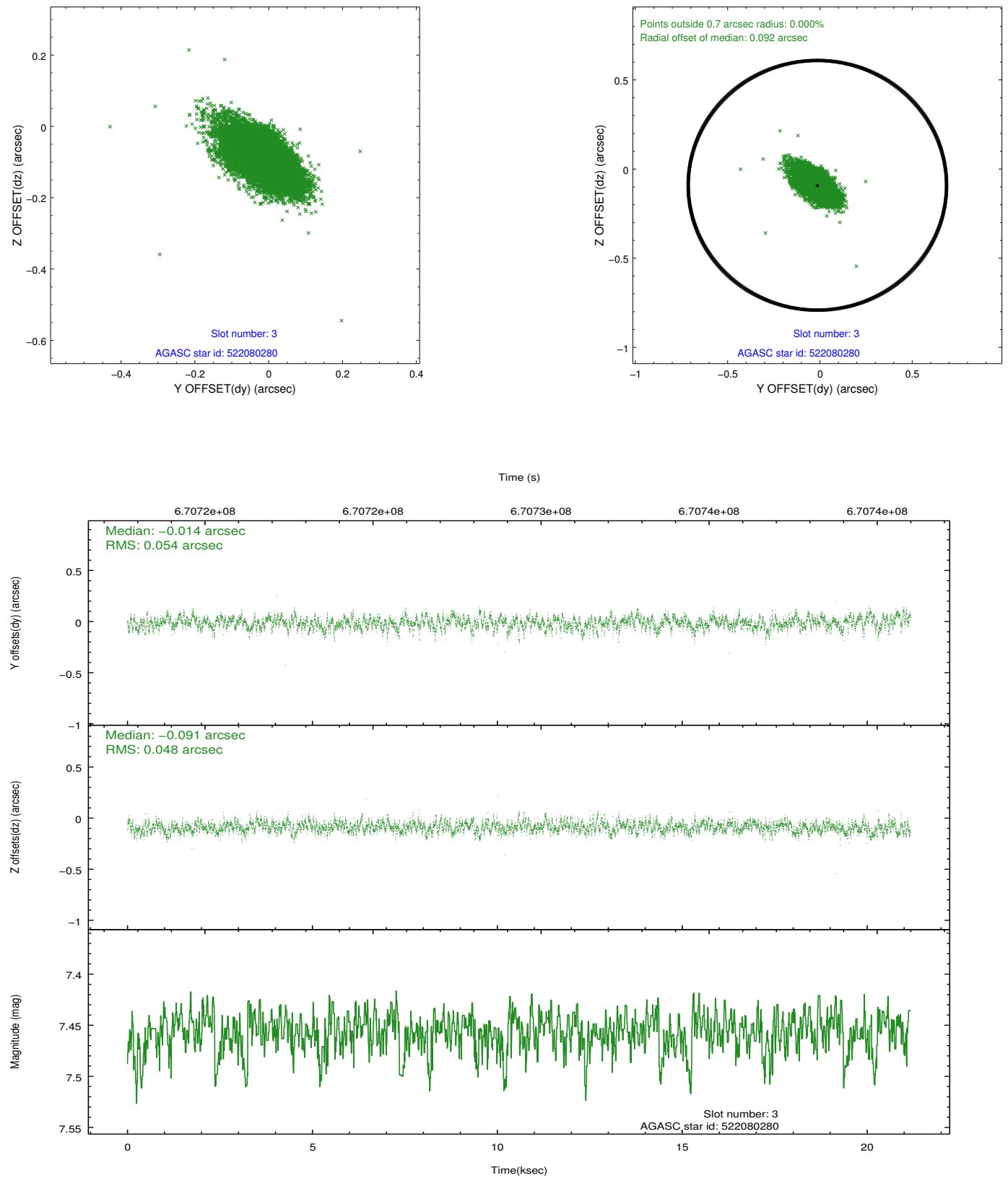


Slot Statistics

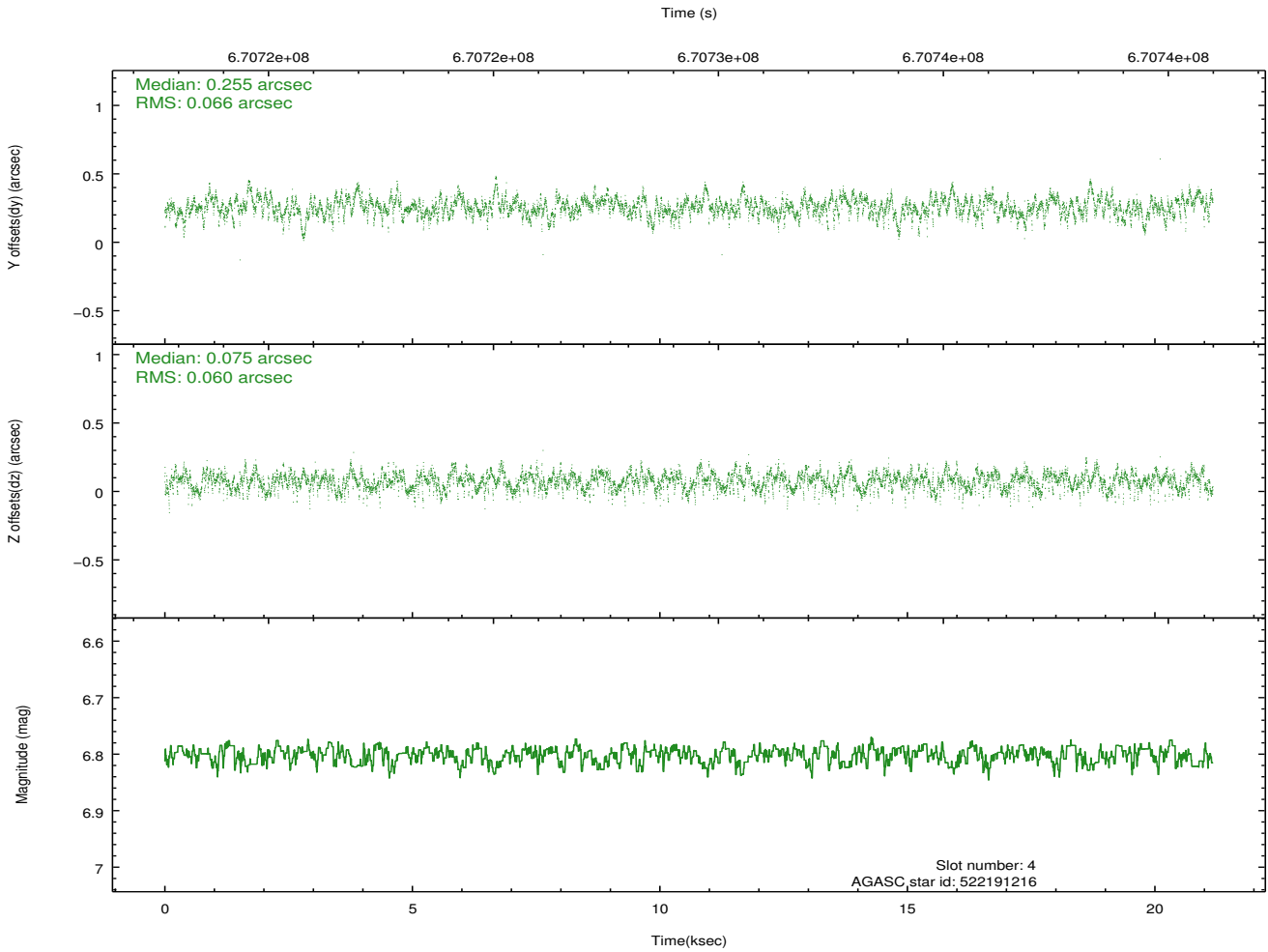
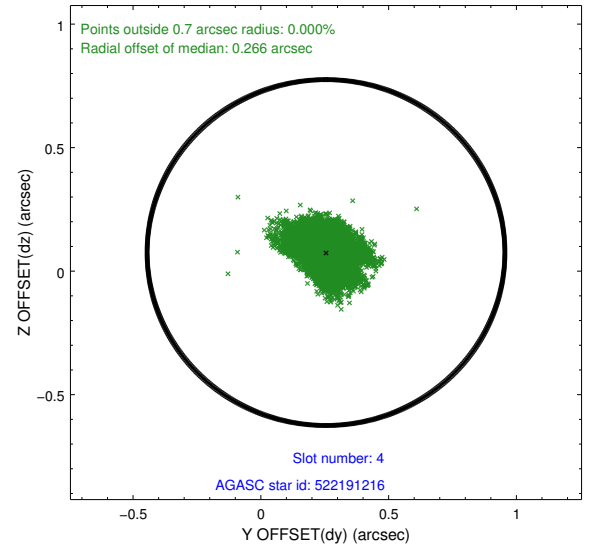
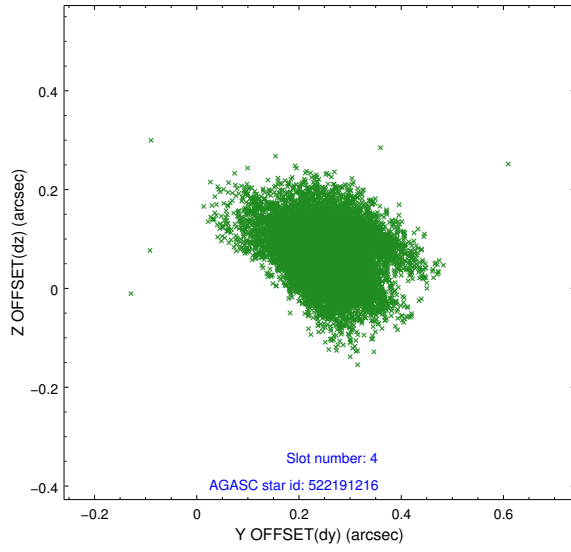
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-3	7.42	5164	1.000	-0.059	0.156	0.037	0.052	0.000000	0.000000	44.00	-976
1	FID		ACIS-I-5	7.19	5162	1.000	-0.381	-0.133	0.021	0.028	0.000000	0.000000	-1822.05	1053
2	FID		ACIS-I-6	7.20	5163	1.000	0.345	0.046	0.020	0.034	0.000000	0.000000	392.18	1698
3	GUIDE	used	522080280	7.46	10329	1.000	-0.014	-0.091	0.073	0.131	339.665580	52.873813	-2149.32	773
4	GUIDE	used	522191216	6.80	10328	1.000	0.255	0.075	0.093	0.155	341.400345	52.890306	779.73	-1598
5	GUIDE	used	522195816	7.20	10328	1.000	-0.561	-0.525	0.097	0.146	341.124906	53.756426	2296.85	1188
6	GUIDE	used	522202320	6.94	10329	1.000	-0.159	-0.018	0.063	0.106	341.199728	53.302639	1383.98	-174
7	GUIDE	used	476202568	7.91	10320	1.000	0.483	0.573	0.098	0.154	340.606785	52.193627	-2156.60	-2426

2.4 Star Slots

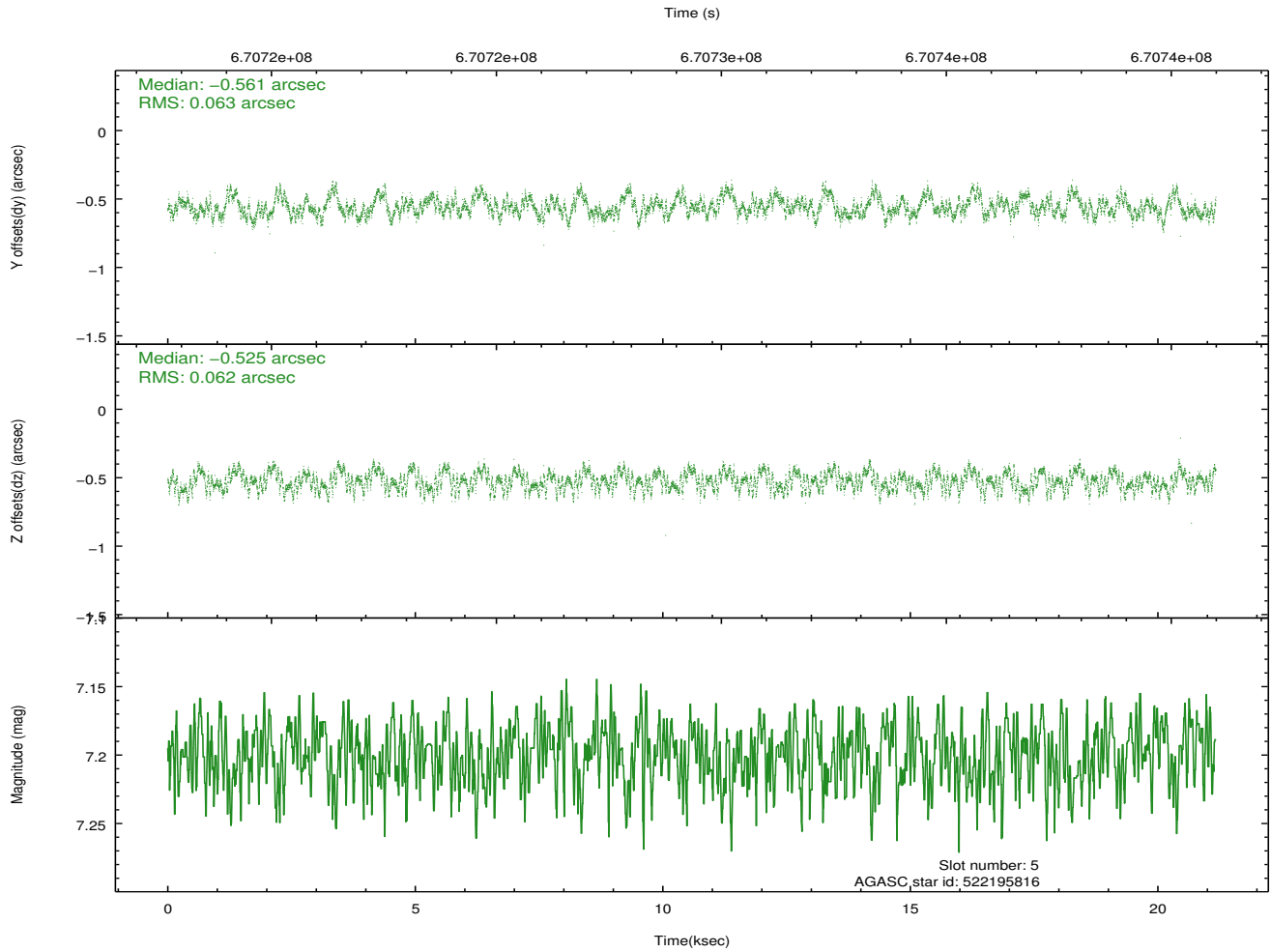
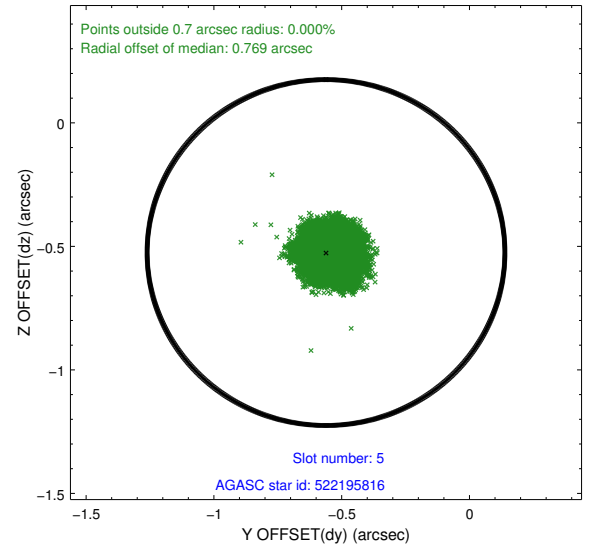
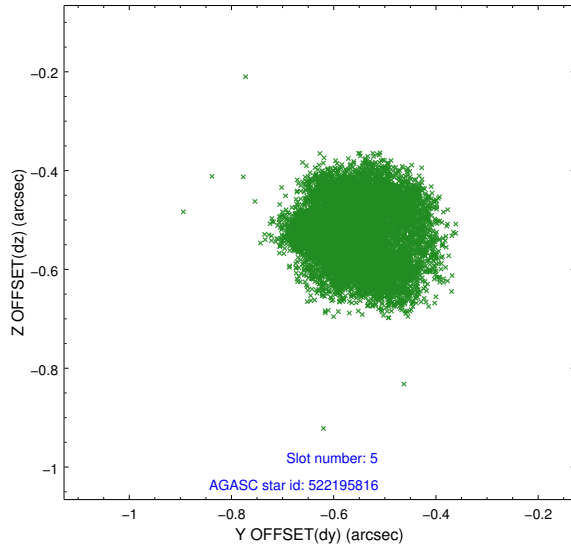
2.4.1 Slot 3



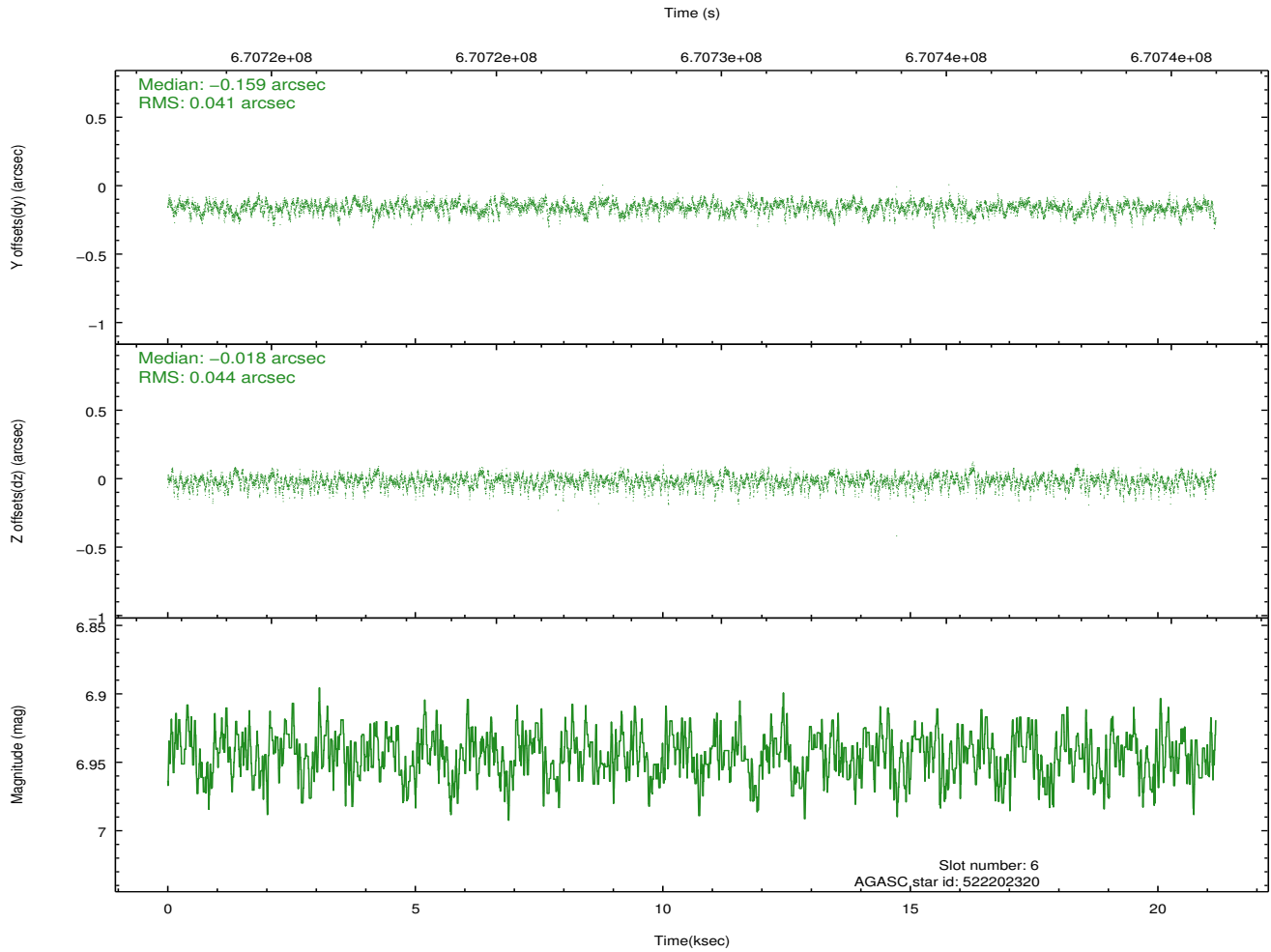
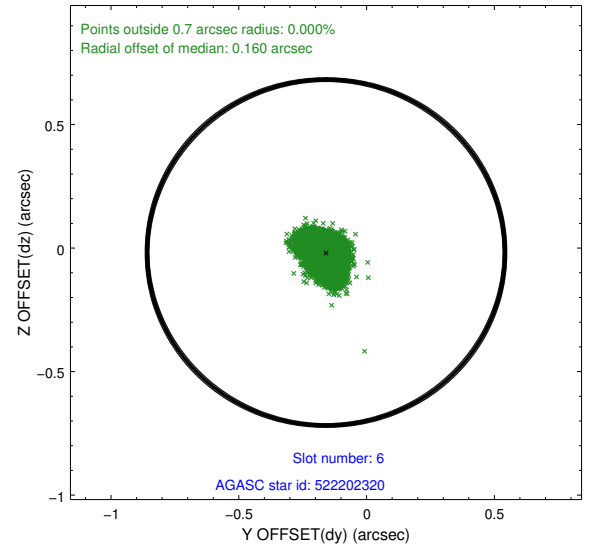
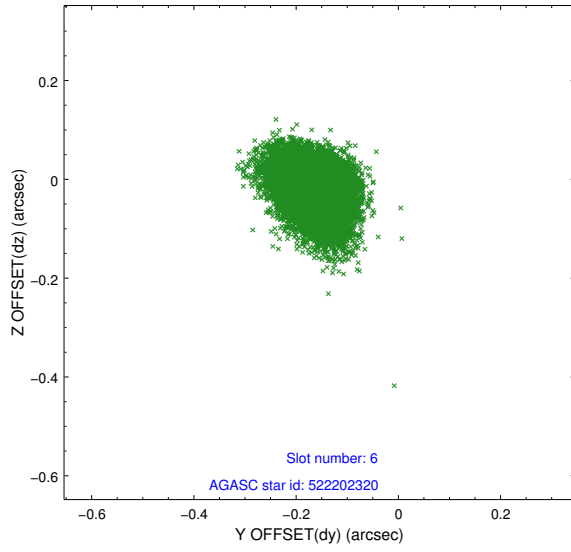
2.4.2 Slot 4



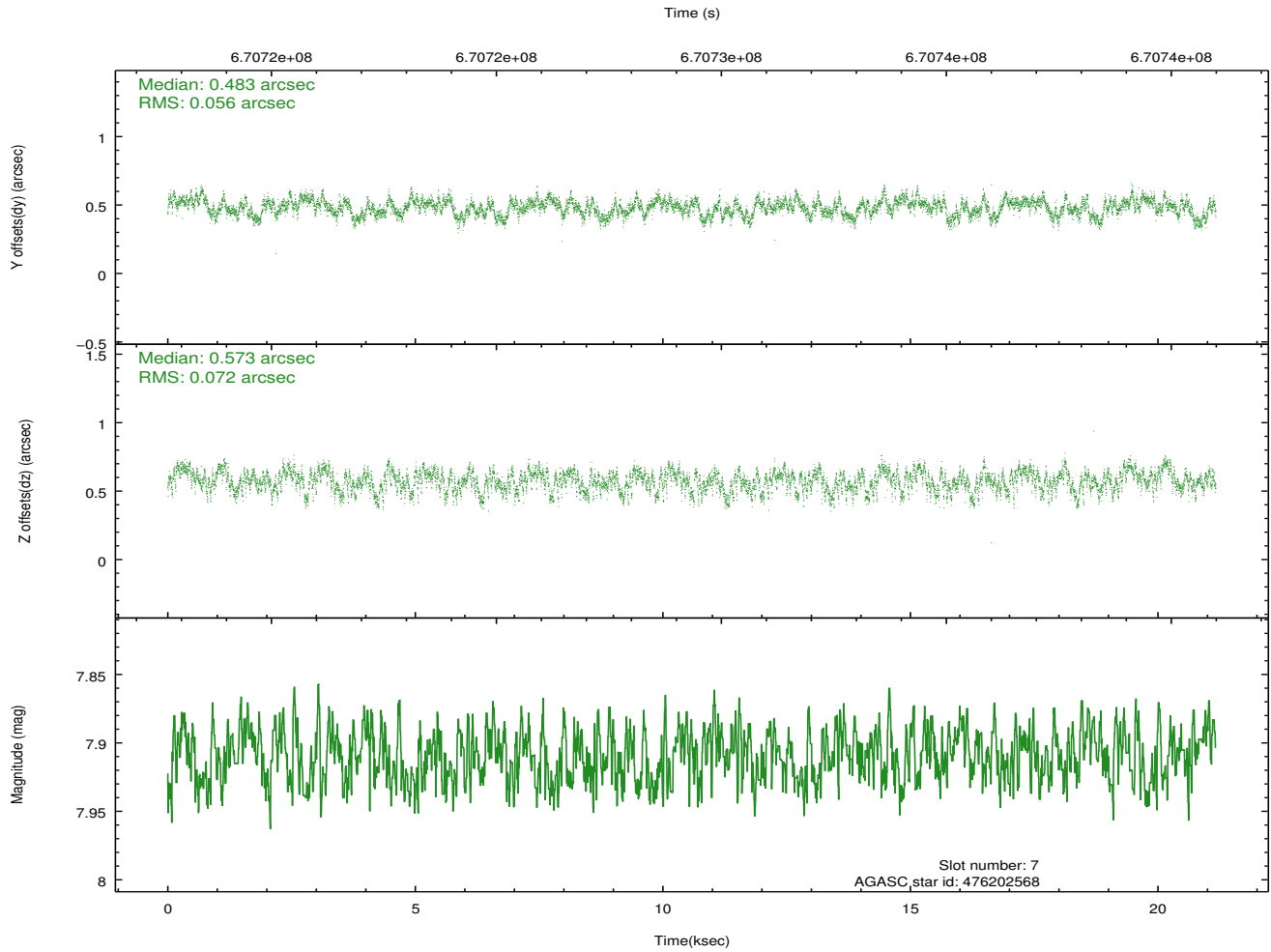
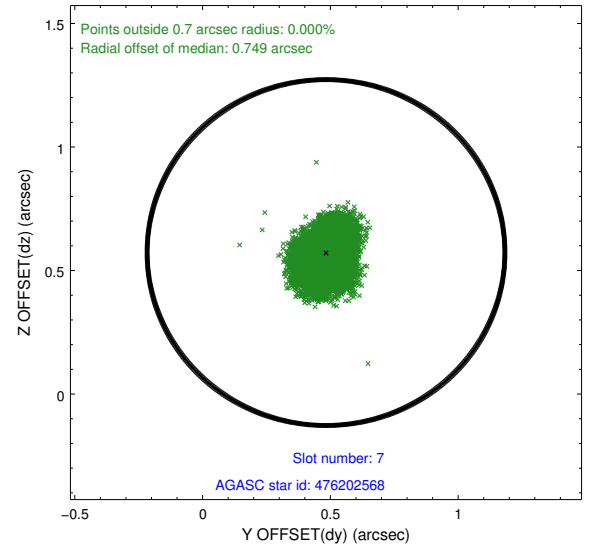
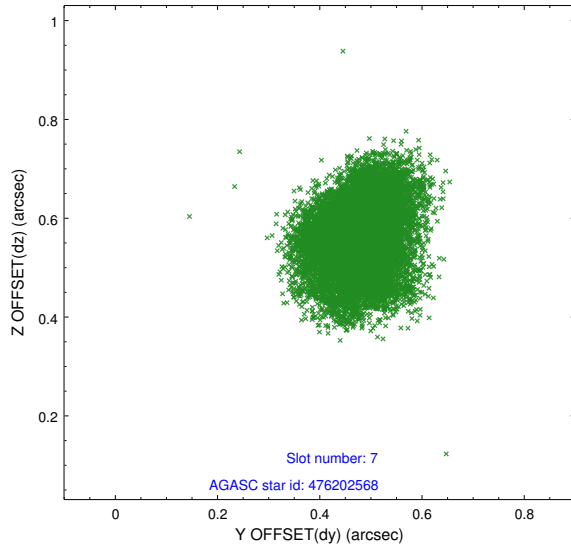
2.4.3 Slot 5



2.4.4 Slot 6

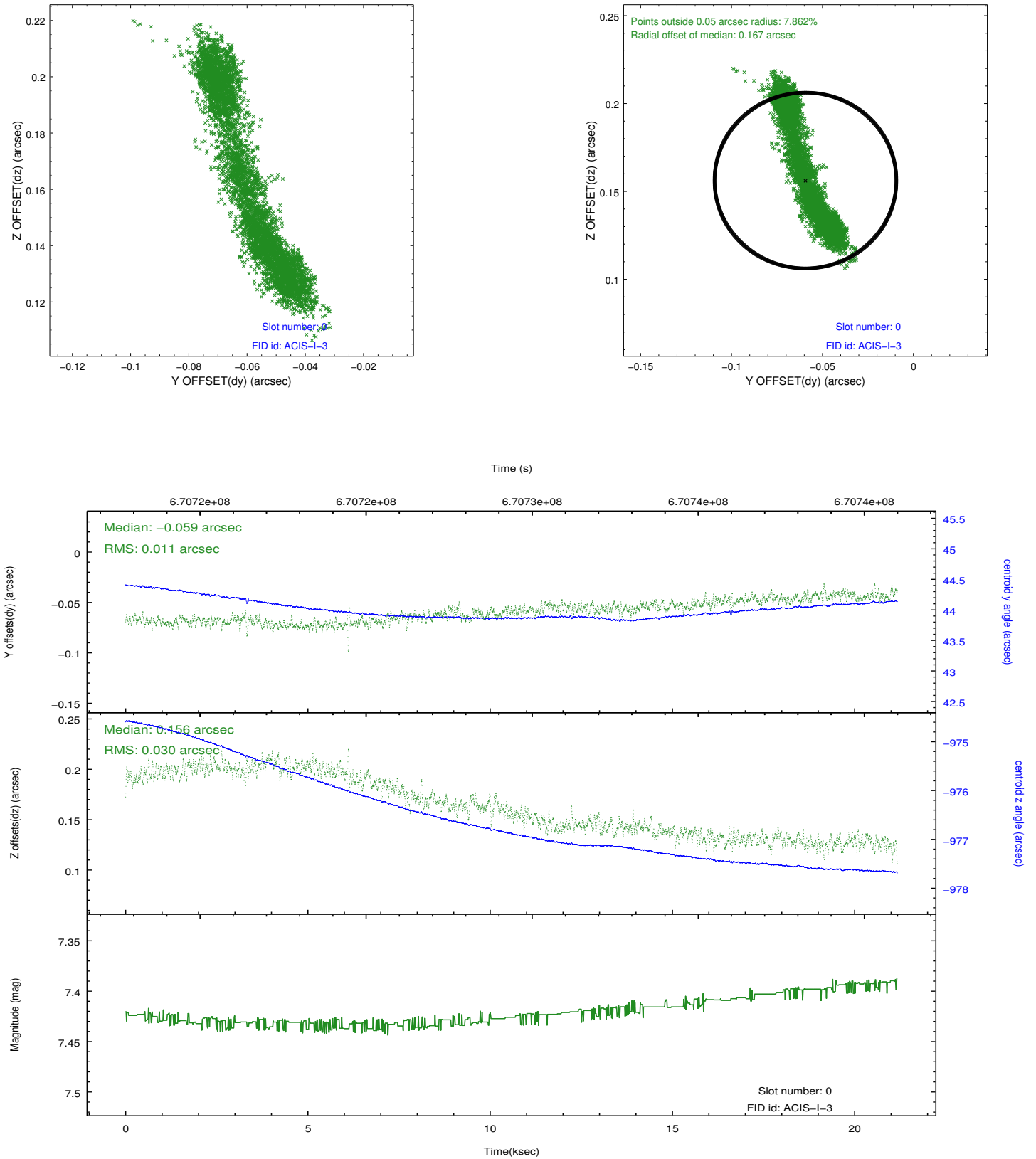


2.4.5 Slot 7

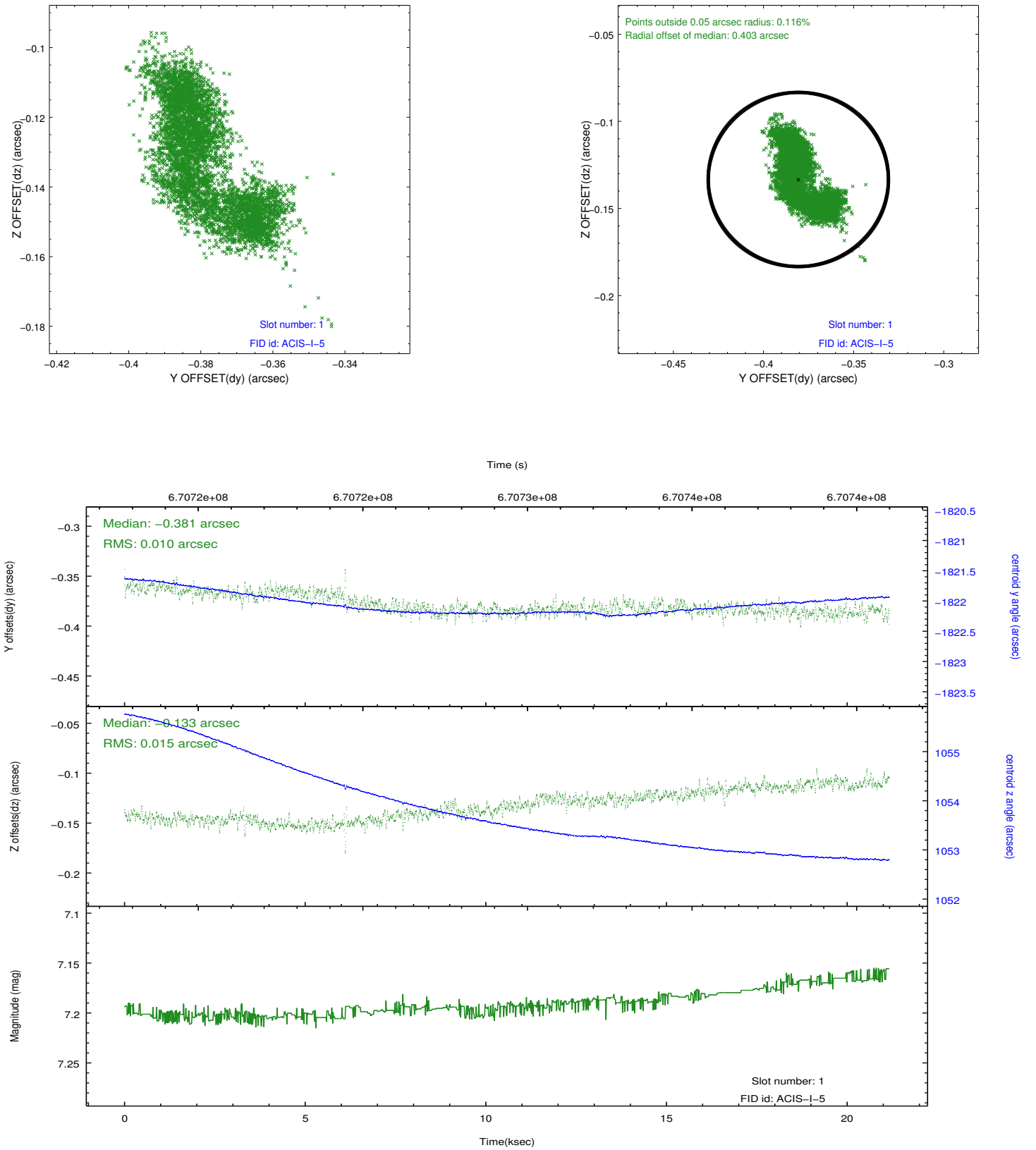


2.5 FID Slots

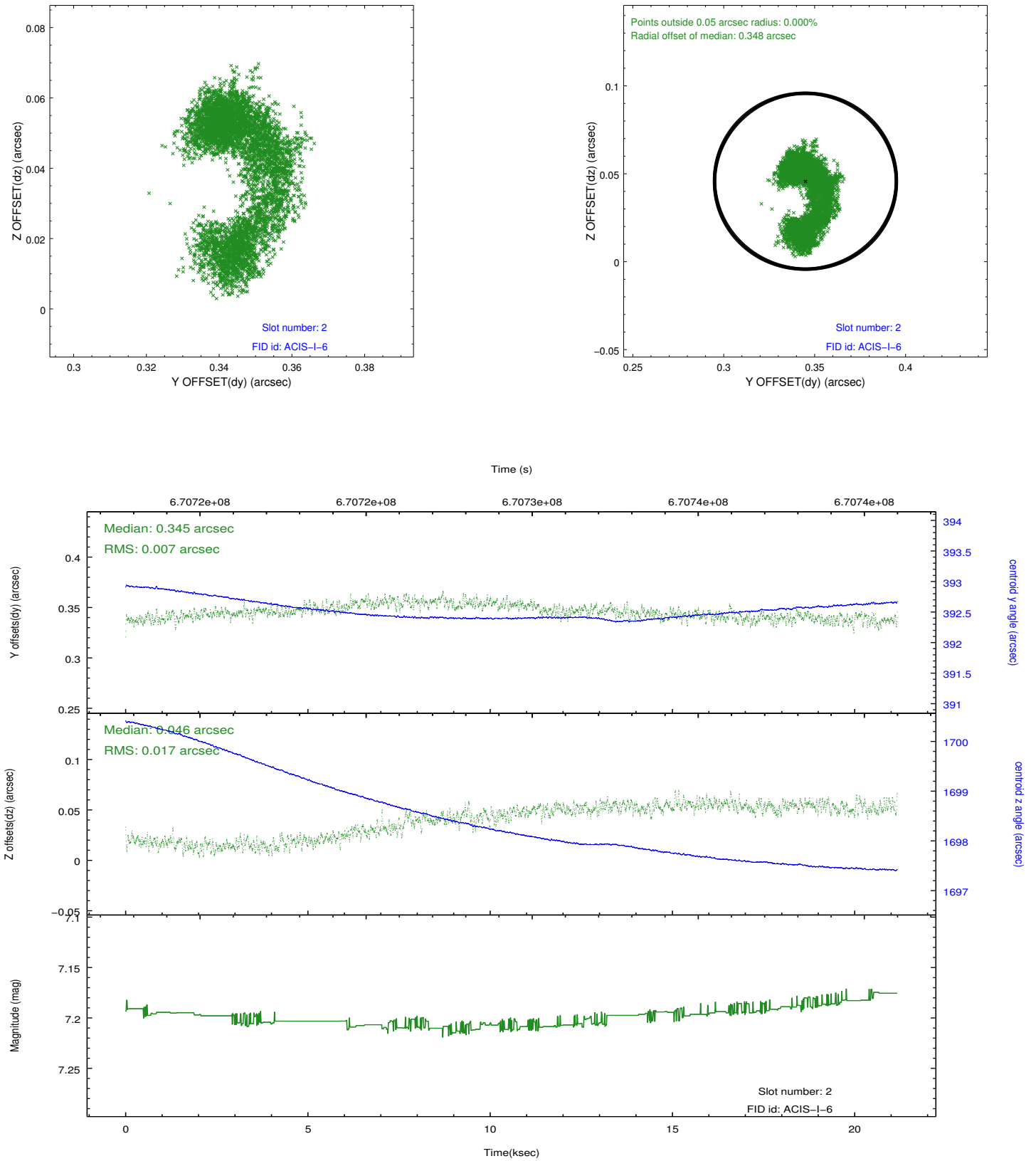
2.5.1 Slot 0



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)	2019.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.057785987854

A.2 Comments