

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20815 - L2 Version 1
Chandra X-Ray Center

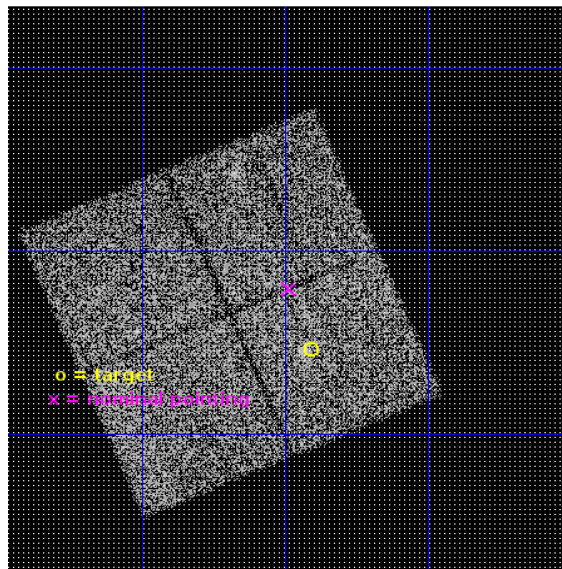
L2 Processing Date : Oct 18 2017

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1 Front

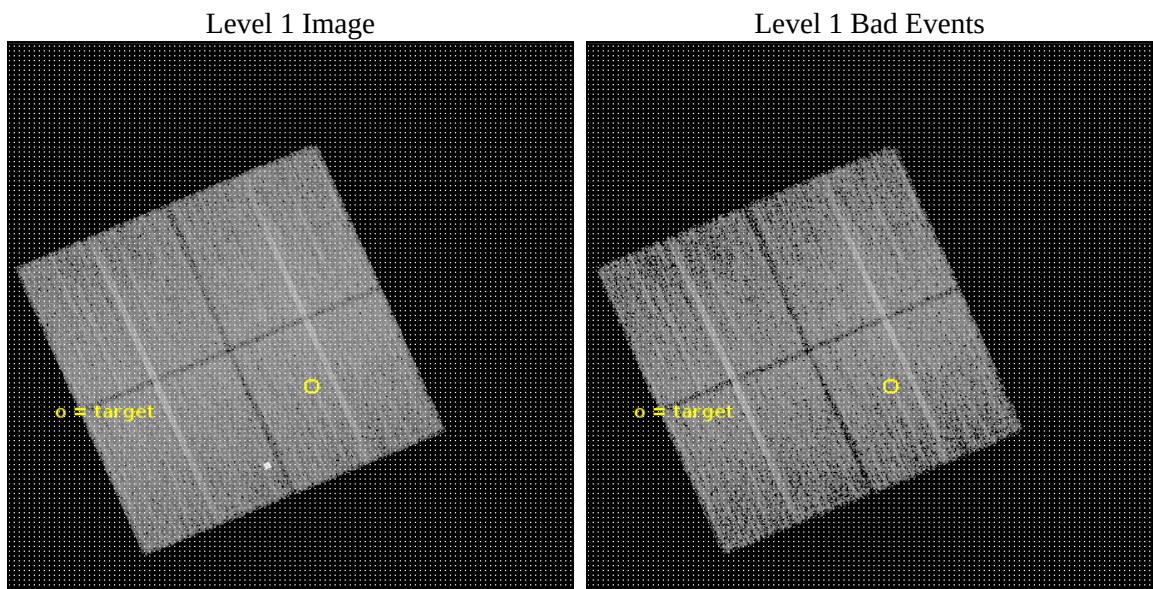
seq_num	801669	Sequence number
obs_id	20815	Observation id
title	Determining the Universality of f _{gas} at High Redshift	Proposal ti
observer	Mark Brodwin	Principal investigator
object	MOO J0319-0025	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	49.851667	Observer's specified target RA [deg]
dec_targ	-0.4225	Observer's specified target Dec [deg]
ra_nom	49.871045222781	Nominal RA [deg]
dec_nom	-0.36778349627777	Nominal Dec [deg]
roll_nom	66.708806326902	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19080.156696677	Sum of GTIs [s]
livetime	18830.860402828	Livetime [s]
ontime0	19080.033576727	Sum of GTIs [s]
ontime1	19080.074616671	Sum of GTIs [s]
ontime2	19080.115656734	Sum of GTIs [s]
ontime3	19080.156696677	Sum of GTIs [s]
l2events	50250	Number of level 2 events



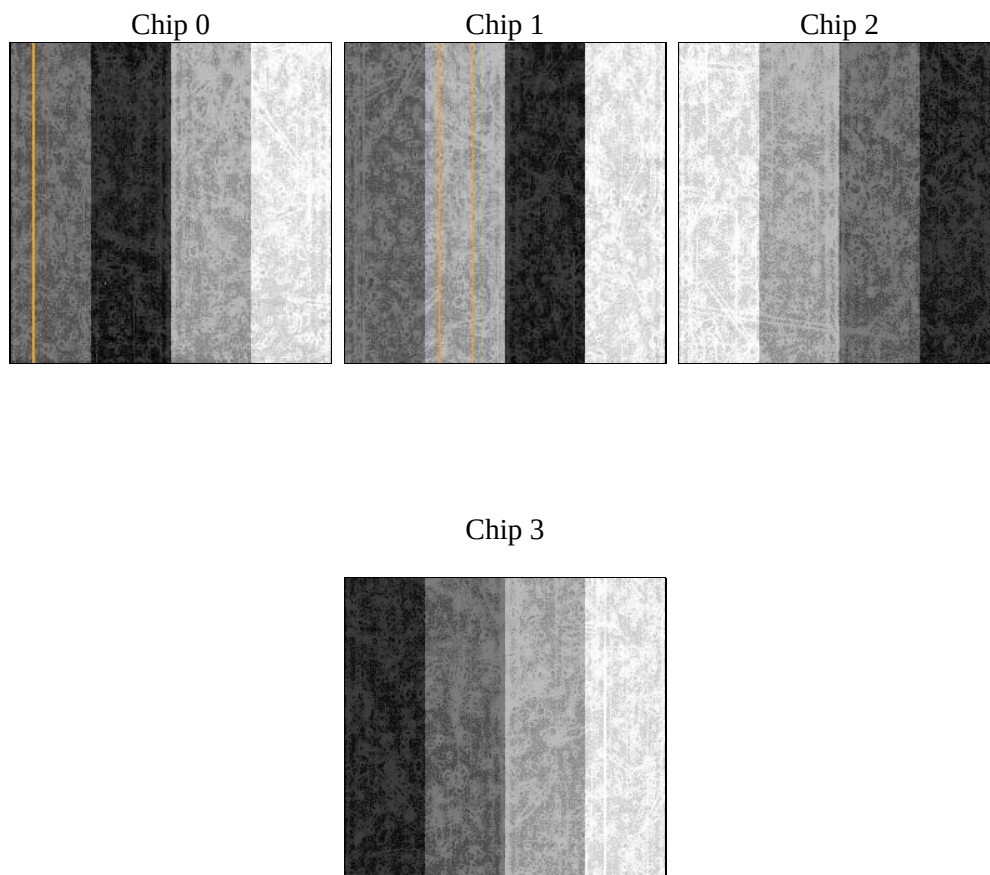
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	19080.156696677	Sum of GTIs [s]
caldbver	4.7.6	 	ontime0	19080.033576727	Sum of GTIs [s]
date	2017-10-18T20:27:21	Date and time of file creation	ontime1	19080.074616671	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	19080.115656734	Sum of GTIs [s]
			ontime3	19080.156696677	Sum of GTIs [s]
			l1events	513460	Number of level 1 events

2.1.4 Events

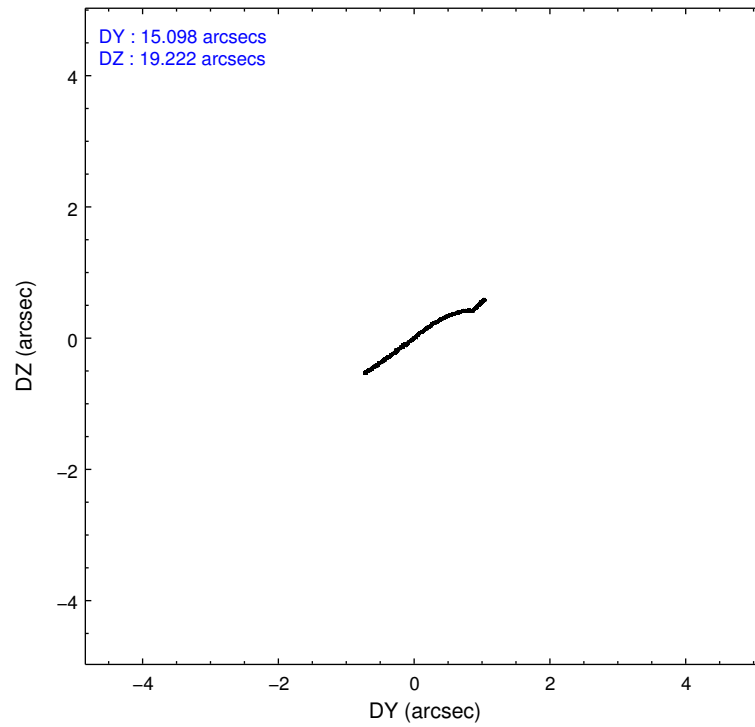
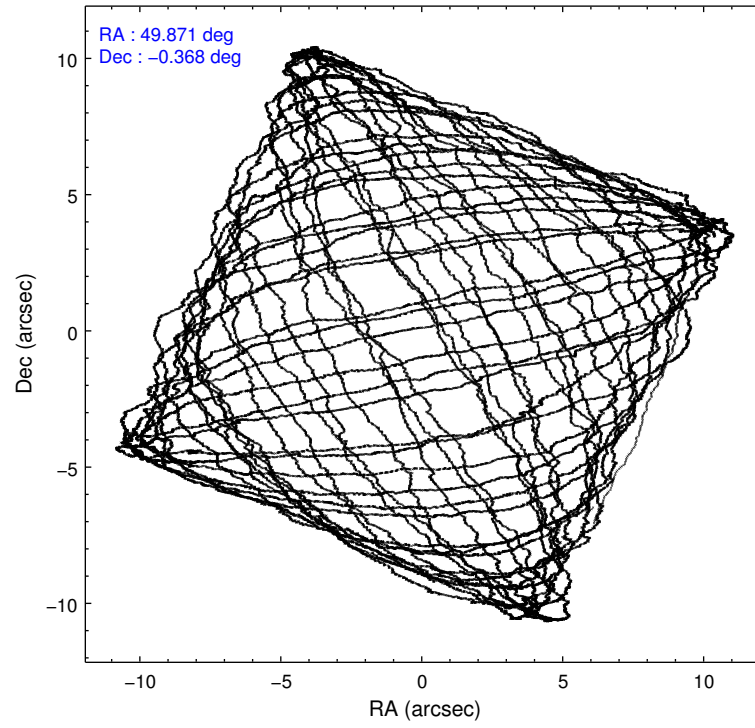
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	122159	126927	133739	130635
rejected events	107181	105171	119276	116413
rejected %	87%	82%	89%	89%

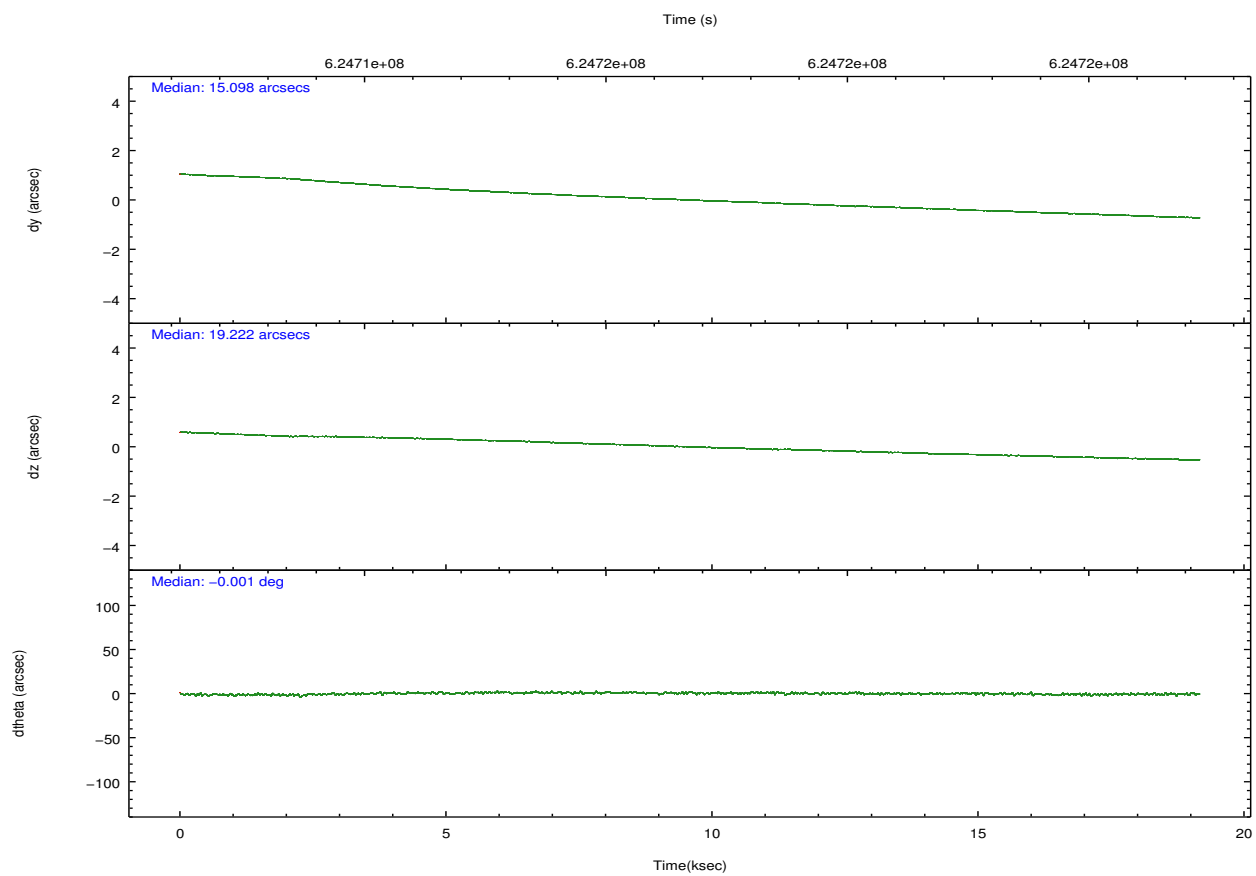
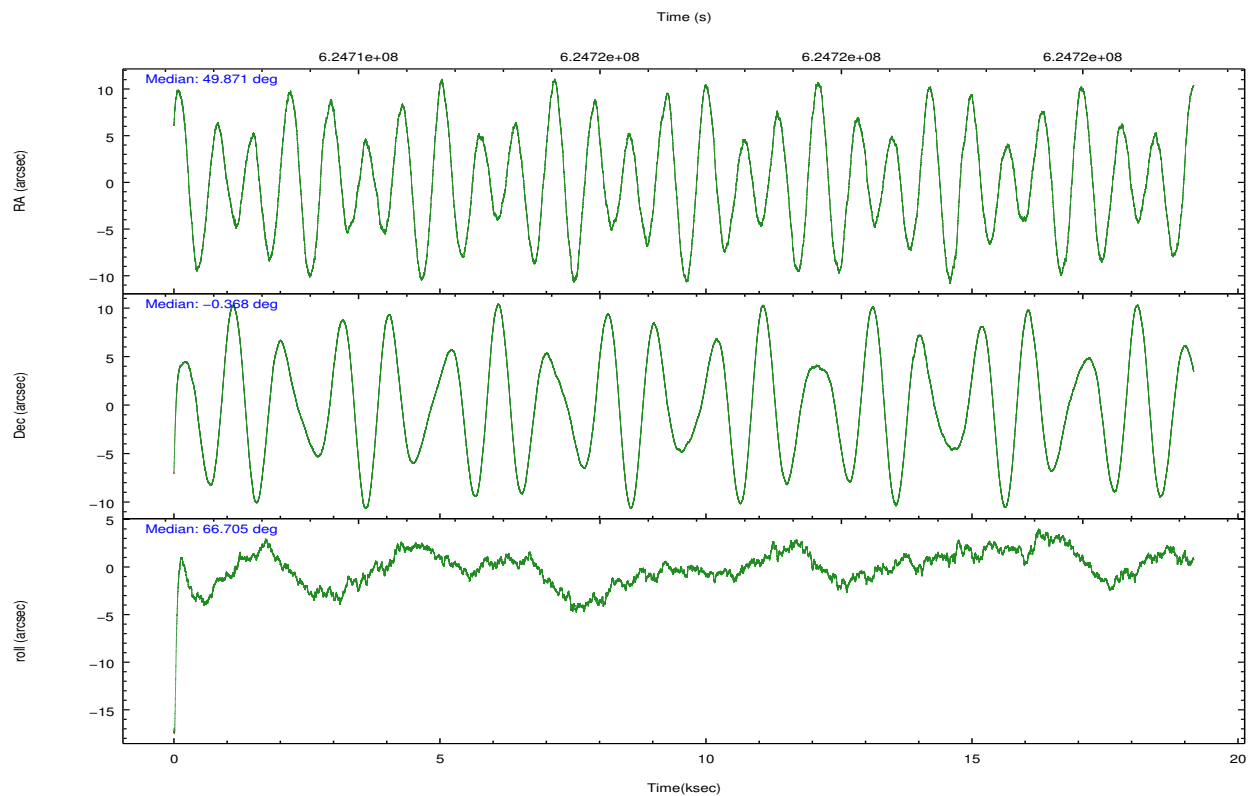
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	5121	11210	5278	5155
	4%	8%	3%	3%
grade 1 events	68	79	87	68
	0%	0%	0%	0%
grade 2 events	3738	3896	3374	3215
	3%	3%	2%	2%
grade 3 events	1483	1522	1486	1400
	1%	1%	1%	1%
grade 4 events	1405	1538	1491	1472
	1%	1%	1%	1%
grade 5 events	5827	5946	5397	6350
	4%	4%	4%	4%
grade 6 events	3236	3601	2842	2990
	2%	2%	2%	2%
grade 7 events	101281	99135	113784	109985
	82%	78%	85%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	49.874365	49.87104522278092	CCD I2 on	Y	Y
[deg] Pointing Dec	-0.395195	-0.3677834962777711	CCD I3 on	Y	Y
[deg] Pointing Roll	66.500149	66.70880632690198	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	N
[mm] SIM translation stage pos	-225.840463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.752	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	624707317.184000	624705883.09867	CCD S5 on	N	N
Observation start date	2017-10-18T09:47:28	2017-10-18T09:24:43	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	624726317.184000	624727355.31243	On-chip summing requested	N	N
Observation end date	2017-10-18T15:04:08	2017-10-18T15:22:35	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



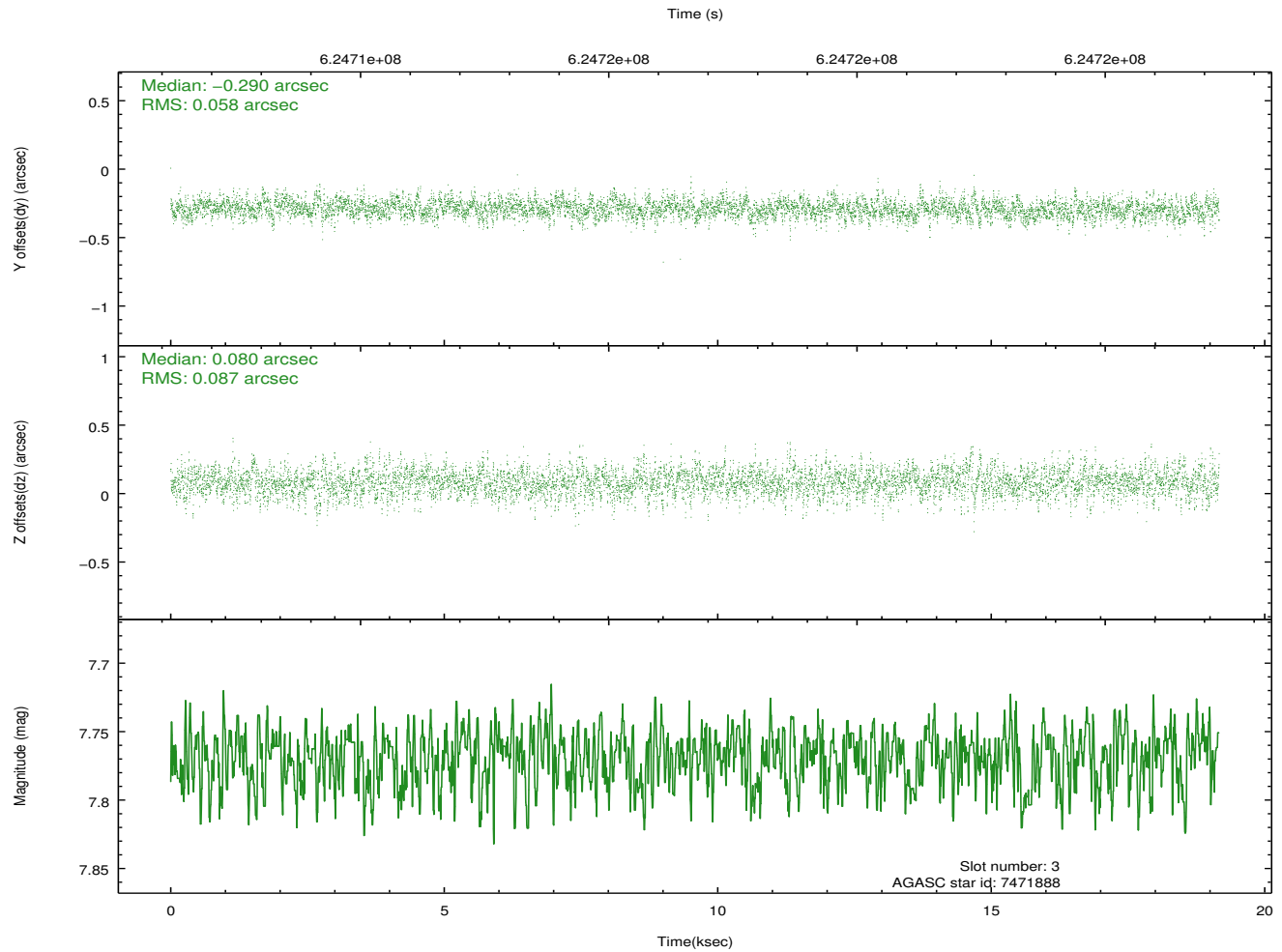
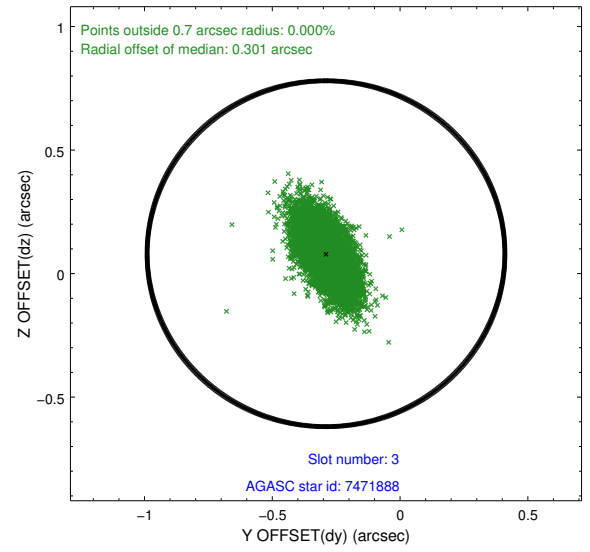
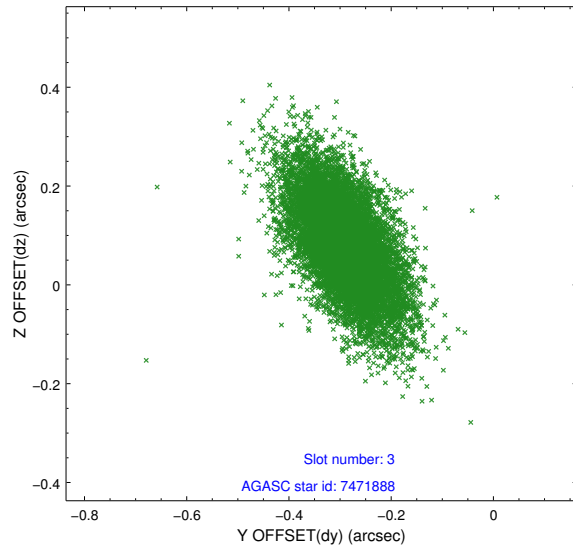


Slot Statistics

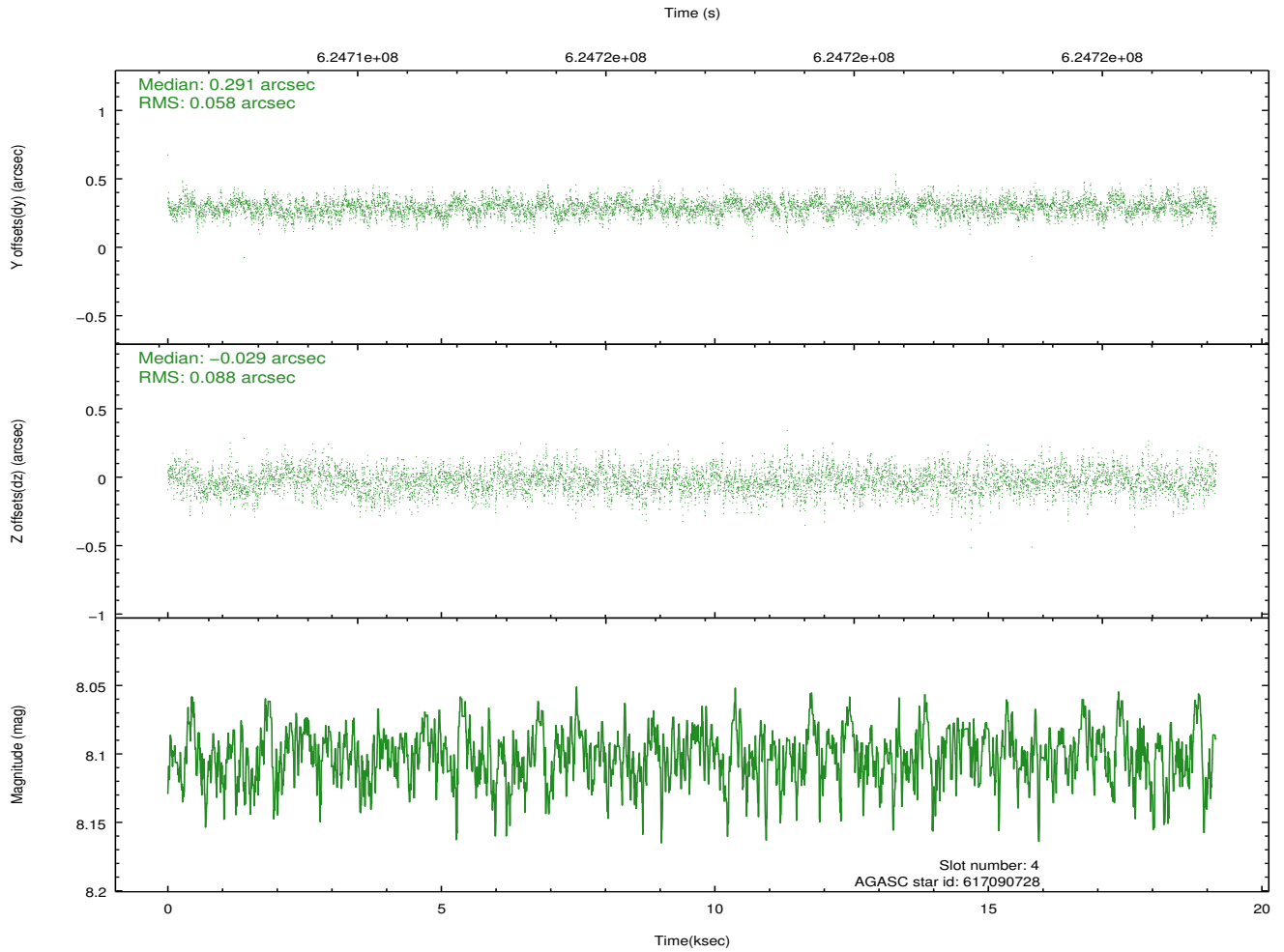
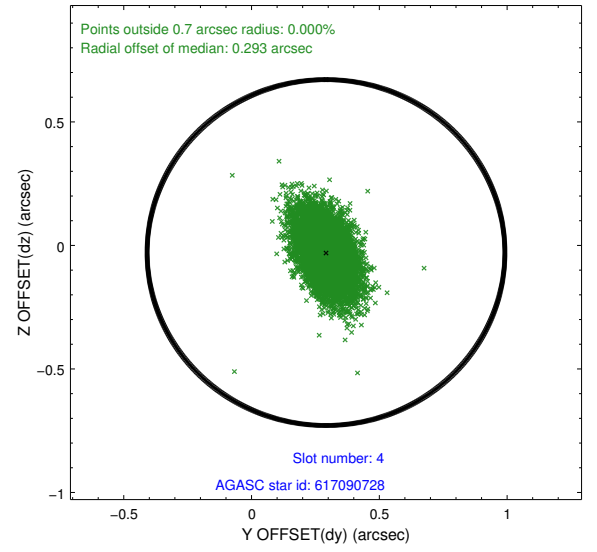
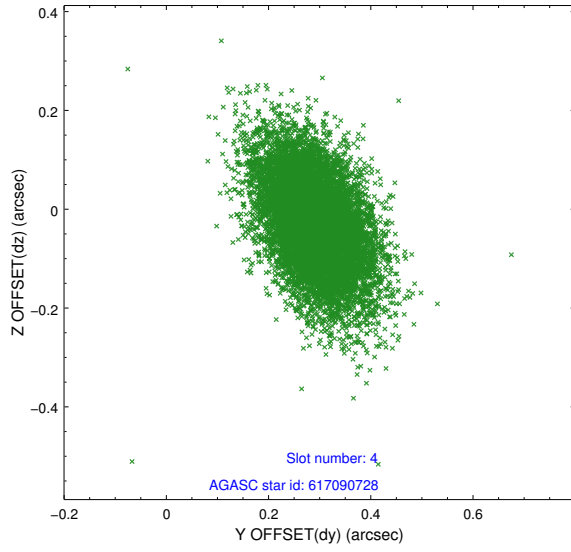
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.06	4675	-0.361	-0.225	0.014	0.022	0.000000	0.000000	-770.81	-1007.57
1	FID		ACIS-I-4	7.03	4676	0.166	0.265	0.024	0.042	0.000000	0.000000	2143.68	898.85
2	FID		ACIS-I-6	7.15	4676	0.100	0.024	0.029	0.056	0.000000	0.000000	390.43	1540.09
3	GUIDE	used	7471888	7.77	9350	-0.290	0.080	0.106	0.194	50.302431	0.059105	2114.11	-760.84
4	GUIDE	used	617090728	8.10	9349	0.291	-0.029	0.108	0.190	49.858601	-1.065599	-2234.83	-910.50
5	GUIDE	used	617223024	8.47	9348	0.080	-0.220	0.125	0.217	50.185855	-0.169404	1192.97	-704.37
6	GUIDE	used	617224968	8.72	9344	-0.021	0.148	0.125	0.221	50.296542	-0.525136	177.72	-1580.06
7	GUIDE	used	617222168	8.04	9347	-0.061	0.022	0.117	0.206	50.285317	-0.369555	674.93	-1319.77

2.4 Star Slots

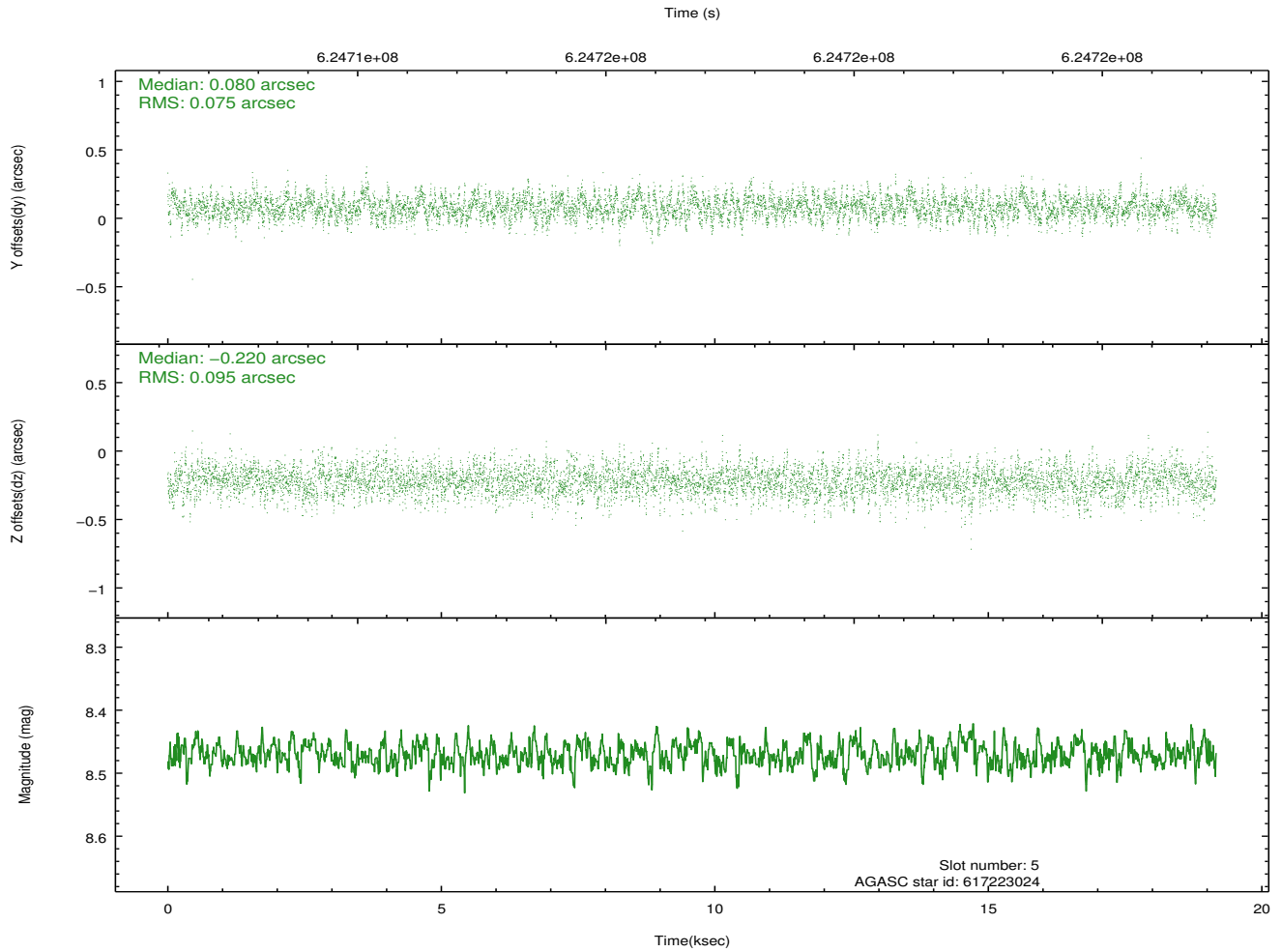
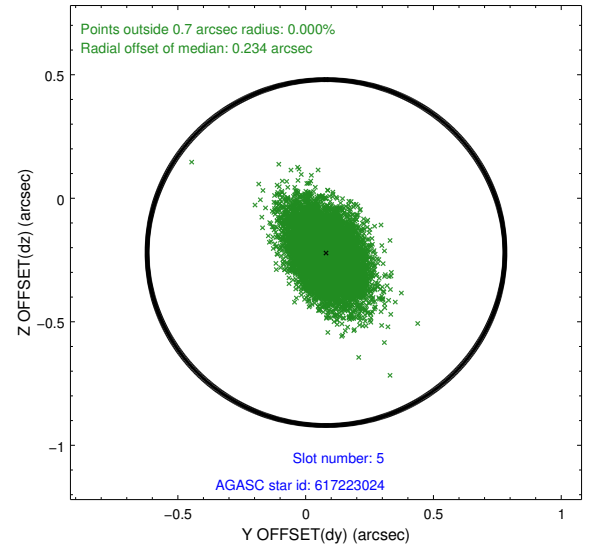
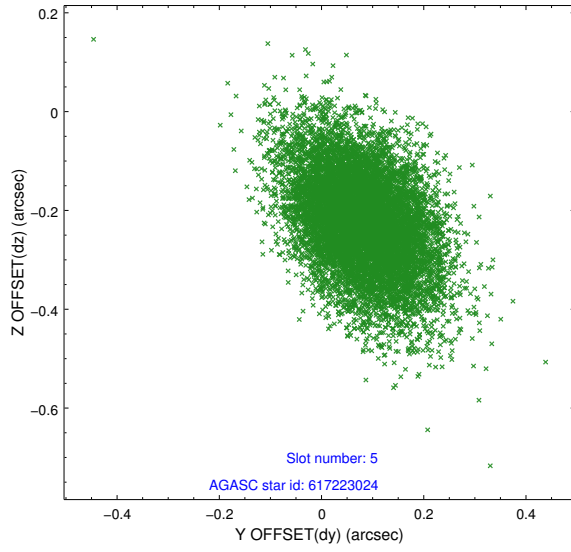
2.4.1 Slot 3



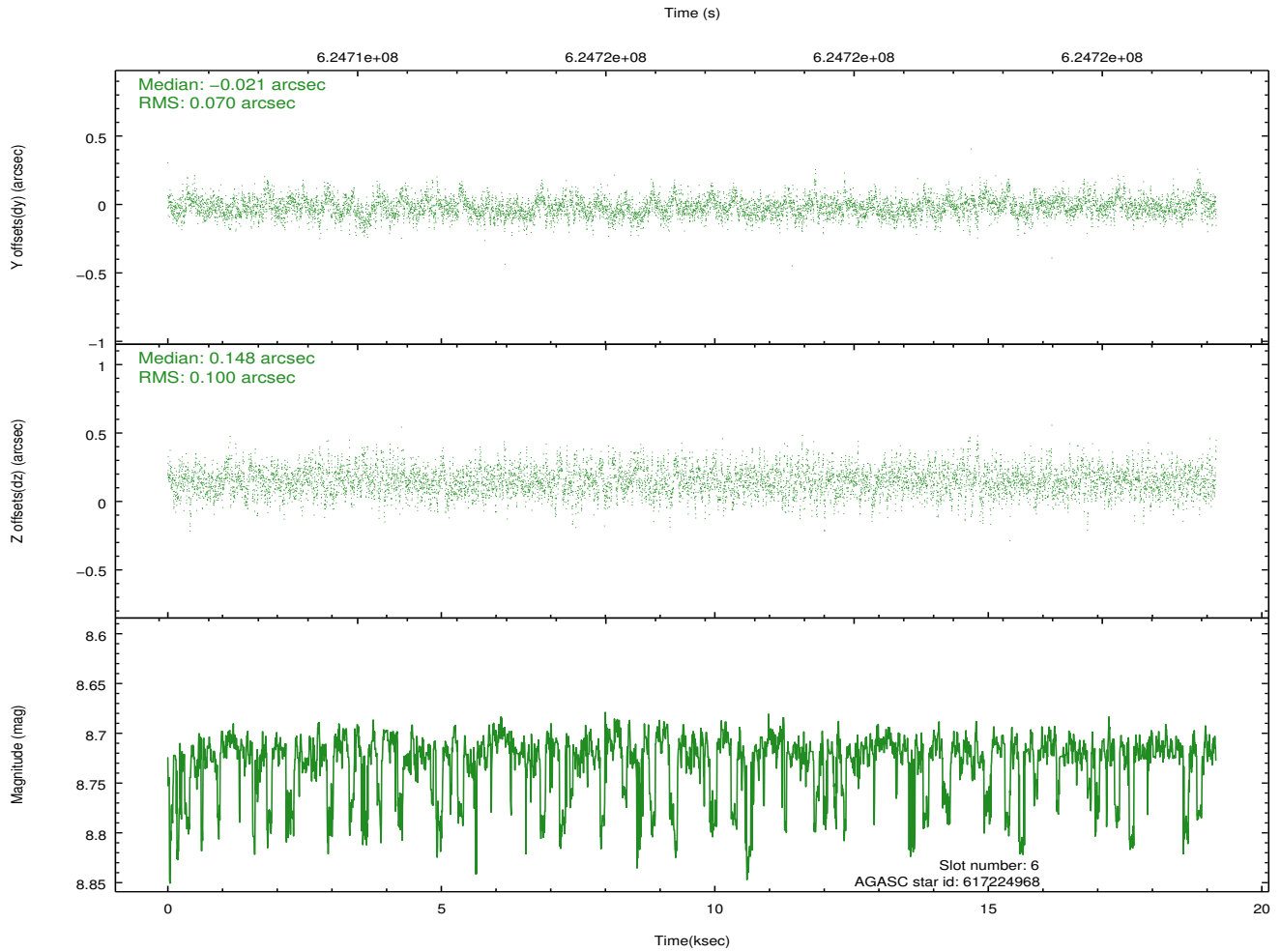
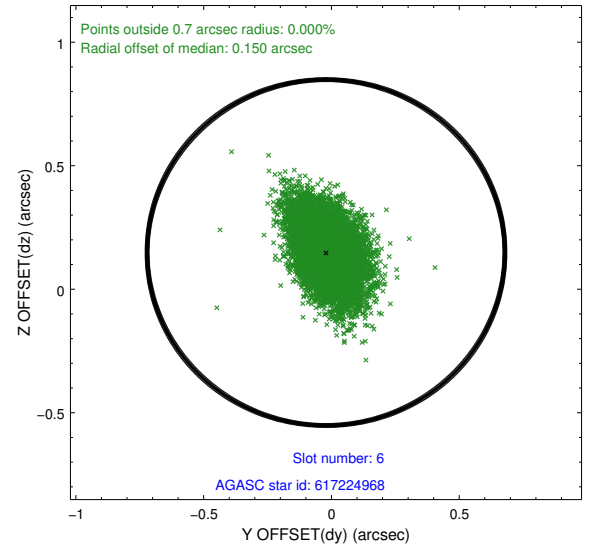
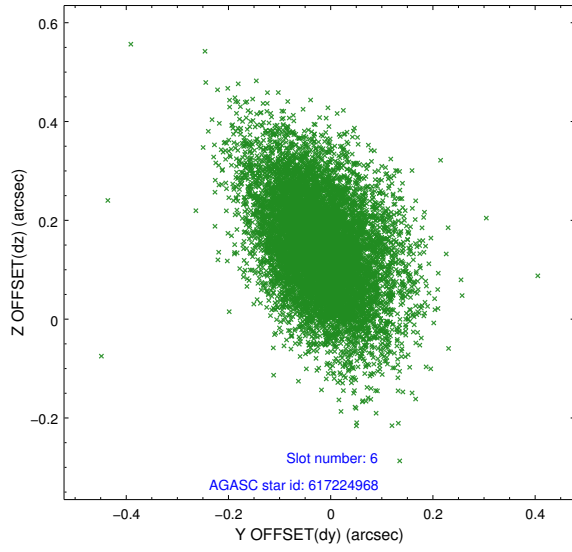
2.4.2 Slot 4



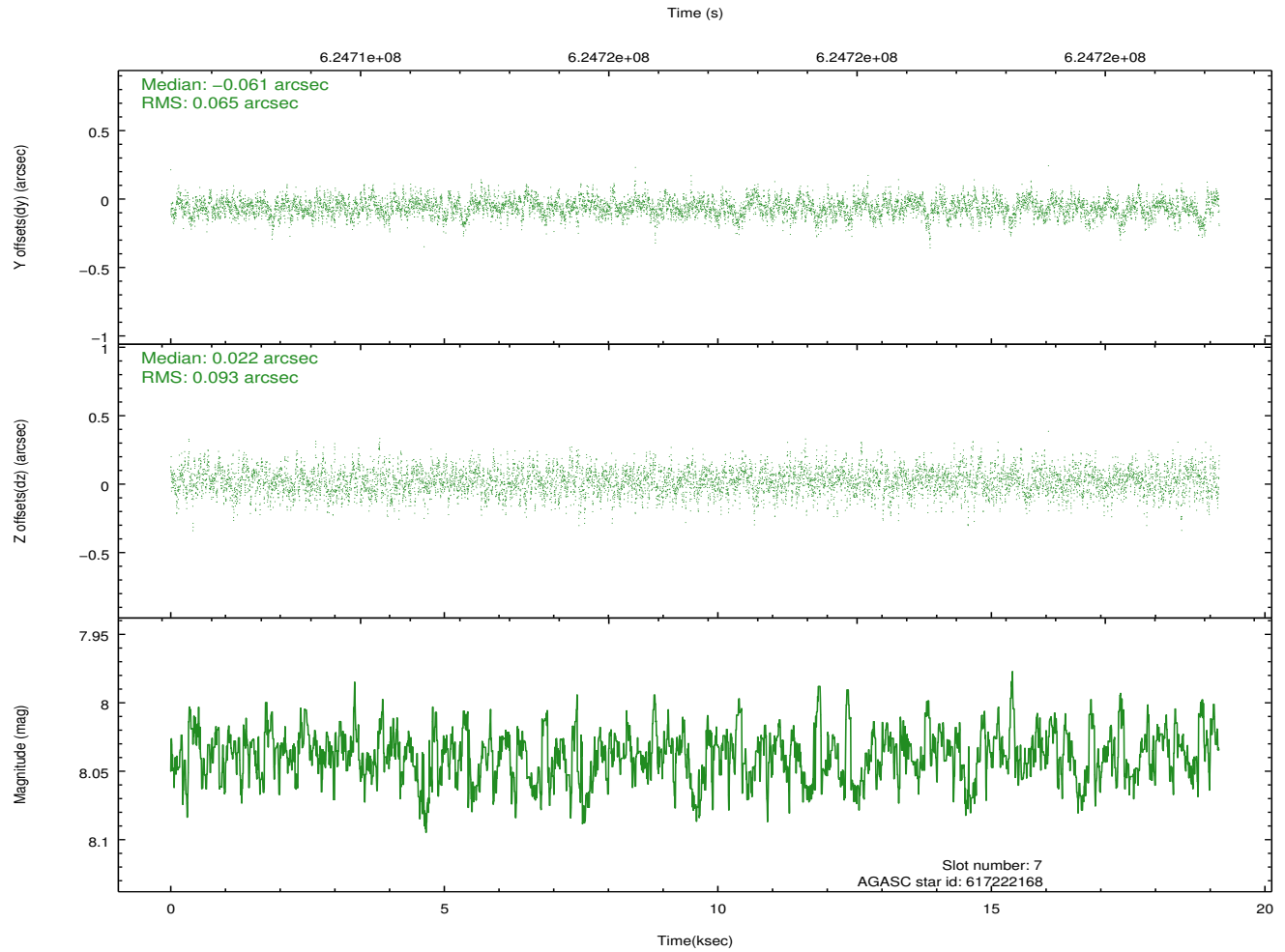
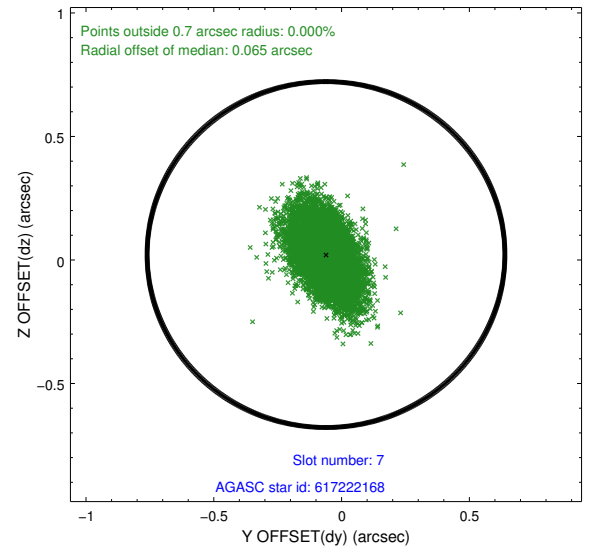
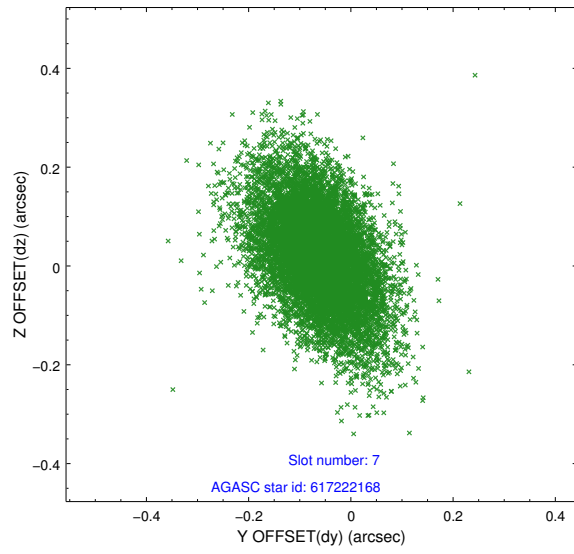
2.4.3 Slot 5



2.4.4 Slot 6

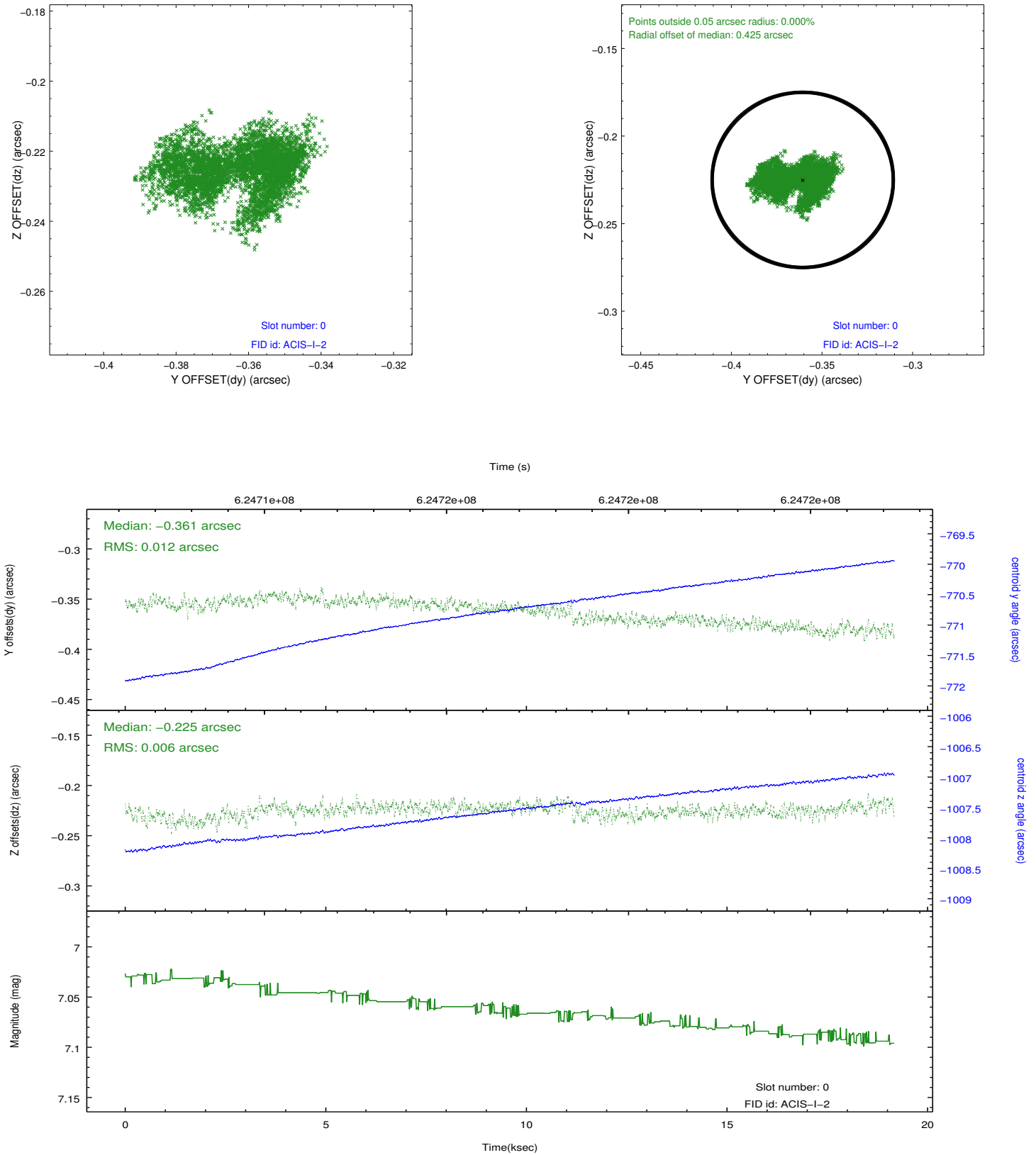


2.4.5 Slot 7

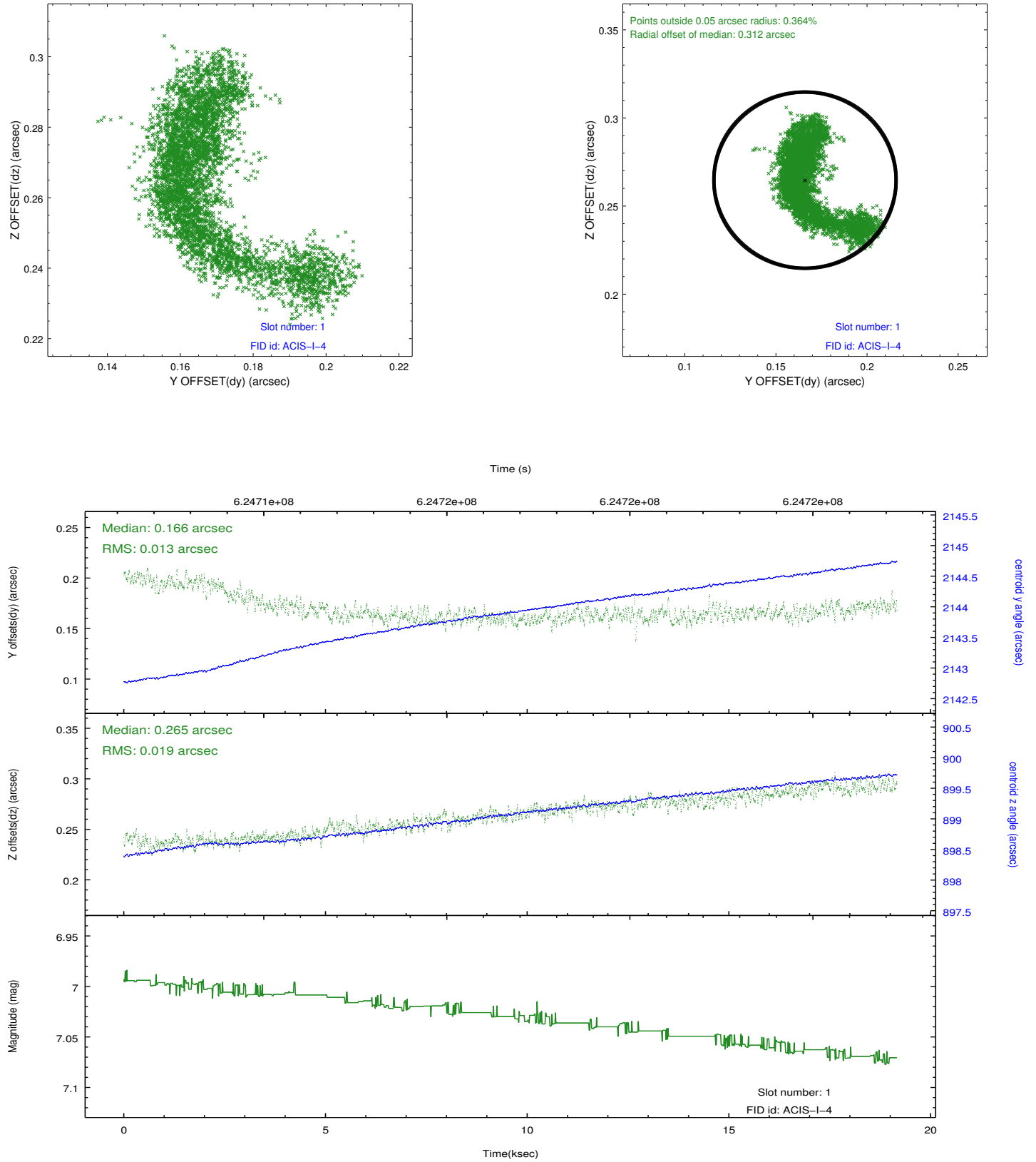


2.5 FID Slots

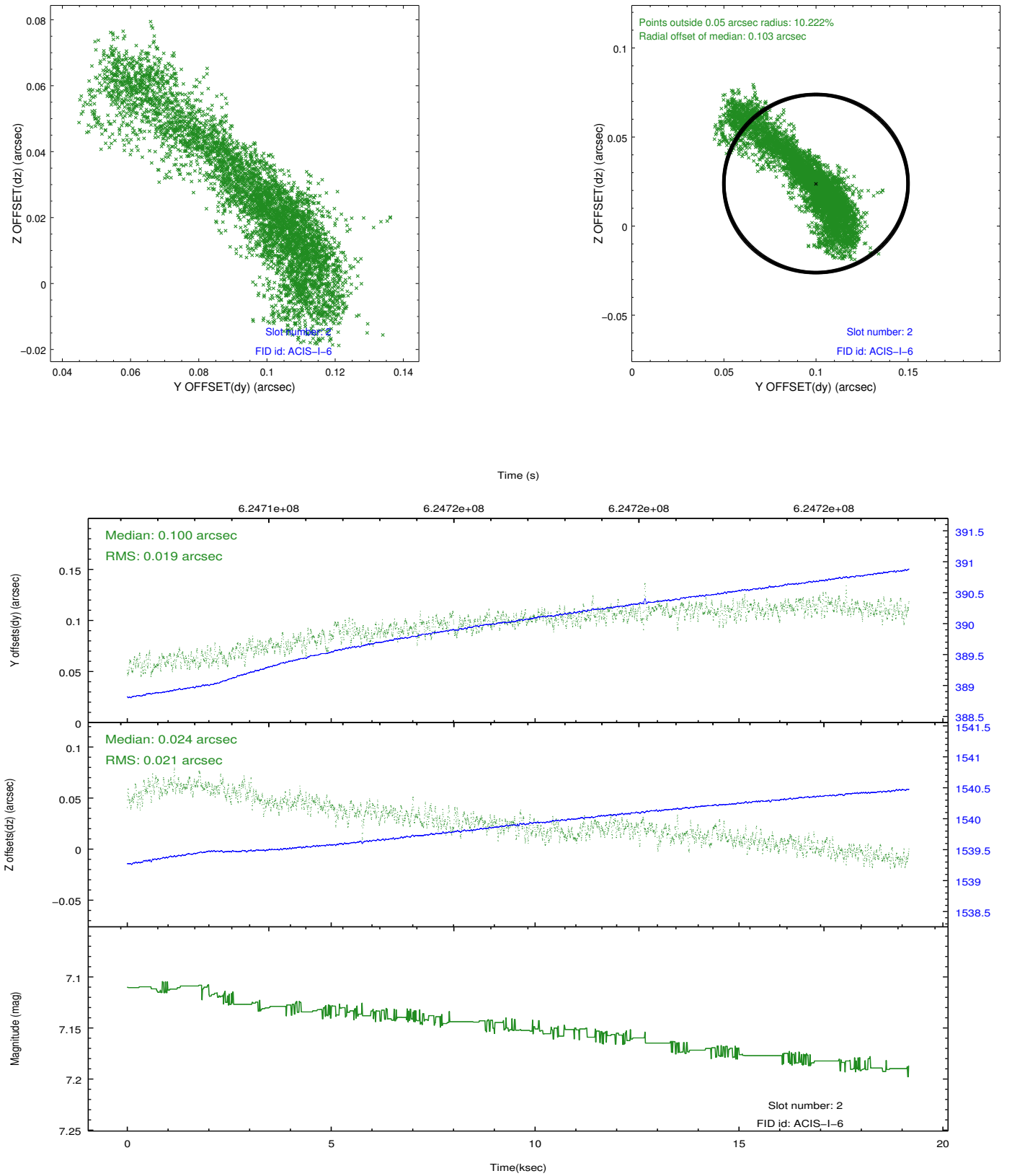
2.5.1 Slot 0



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)	2017.10.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.080156696677

A.2 Comments