

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20613 - L2 Version 1
Chandra X-Ray Center

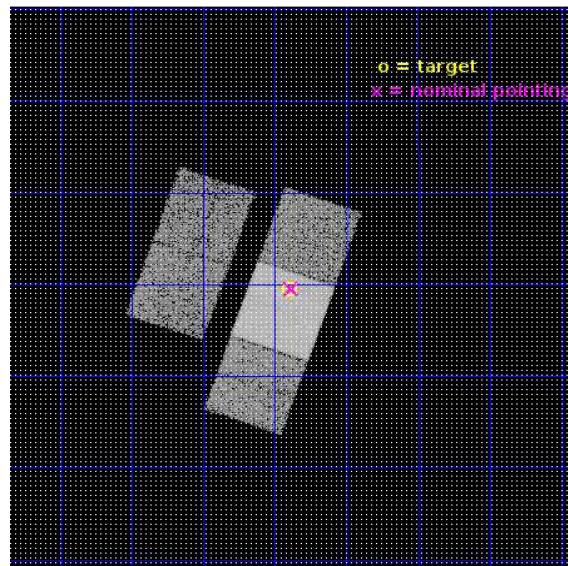
L2 Processing Date : Jul 28 2017

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1 Front

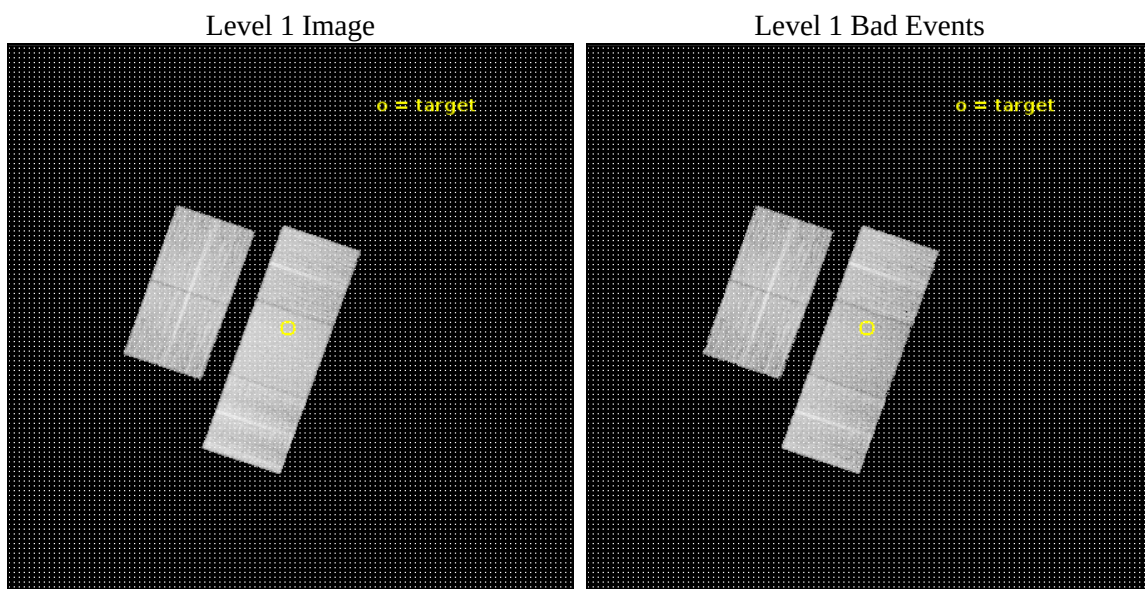
seq_num	503033	Sequence number
obs_id	20613	Observation id
title	Precise localization of the ultra long high-energy transient GRB170714A	Proposal title
observer	Eleonora Troja	Principal investigator
object	GRB170714A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	34.35	Observer's specified target RA [deg]
dec_targ	1.991389	Observer's specified target Dec [deg]
ra_nom	34.346008478602	Nominal RA [deg]
dec_nom	1.9922638896372	Nominal Dec [deg]
roll_nom	109.18756815162	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15059.261750579	Sum of GTIs [s]
livetime	14862.50140934	Livetime [s]
ontime2	15055.956620216	Sum of GTIs [s]
ontime3	15059.179670572	Sum of GTIs [s]
ontime6	15059.220710635	Sum of GTIs [s]
ontime7	15059.261750579	Sum of GTIs [s]
ontime8	15055.997640491	Sum of GTIs [s]
l2events	98504	Number of level 2 events



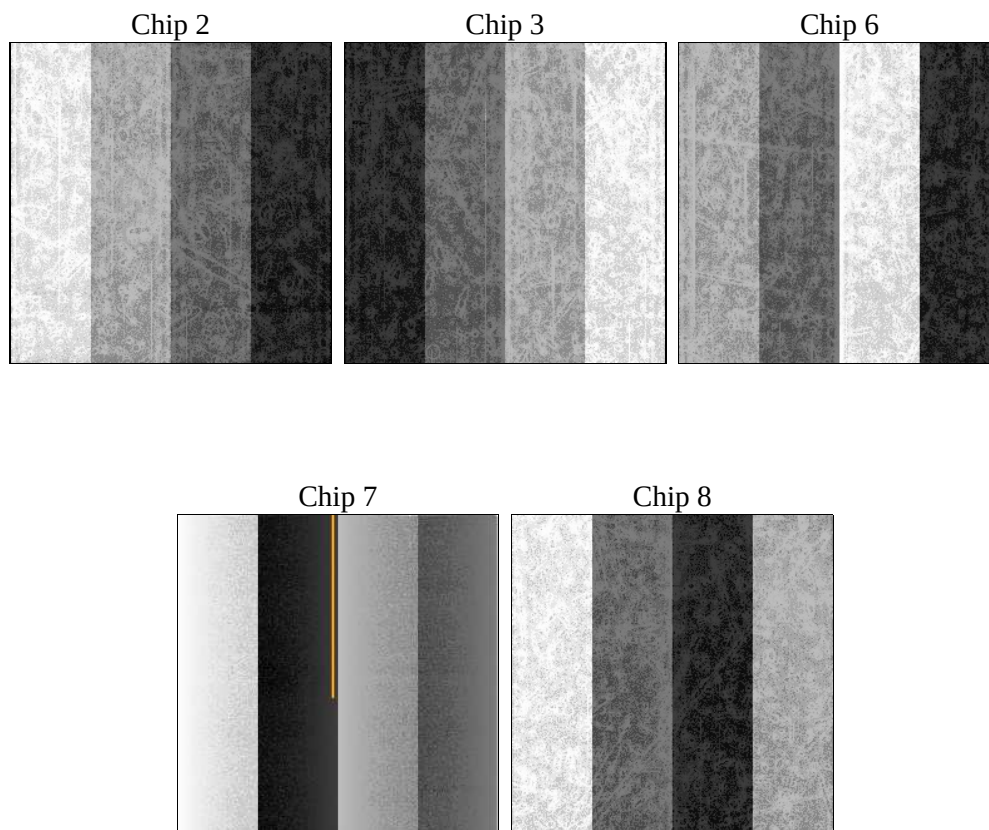
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	15059.261750579	Sum of GTIs [s]
caldbver	4.7.5	 	ontime2	15055.956620216	Sum of GTIs [s]
date	2017-07-28T23:38:28	Date and time of file creation	ontime3	15059.179670572	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	15059.220710635	Sum of GTIs [s]
			ontime7	15059.261750579	Sum of GTIs [s]
			ontime8	15055.997640491	Sum of GTIs [s]
			l1events	575132	Number of level 1 events

2.1.4 Events

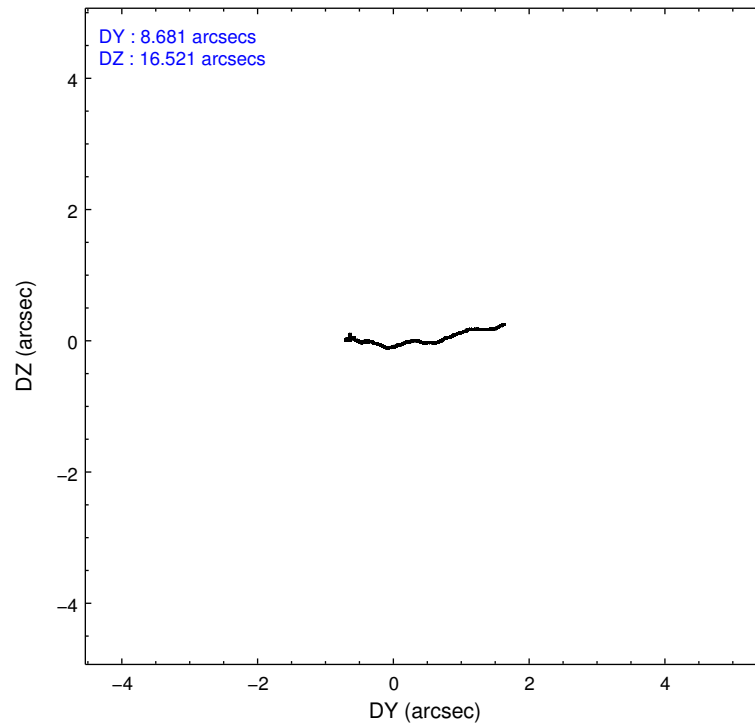
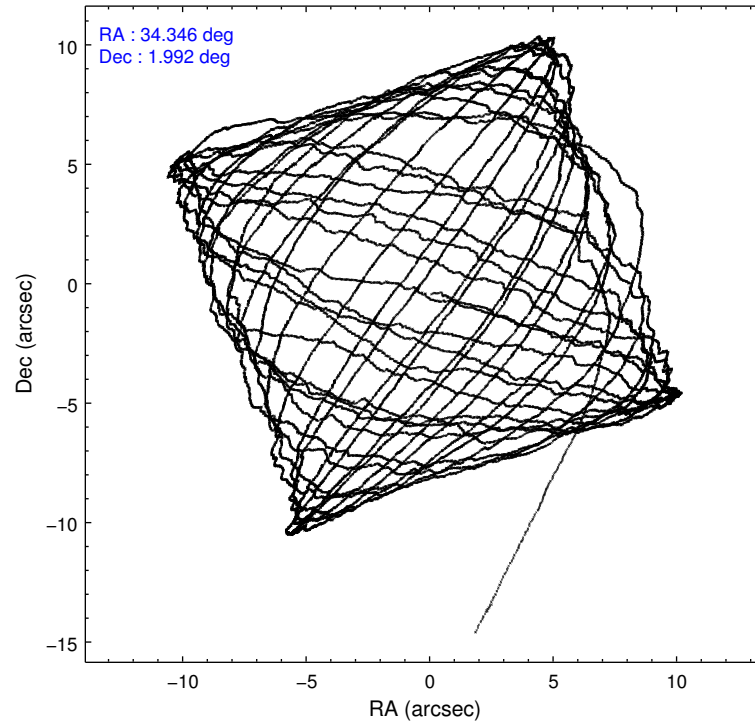
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	99446	96185	104601	133350	141550
rejected events	88376	85256	92538	75026	101705
rejected %	88%	88%	88%	56%	71%

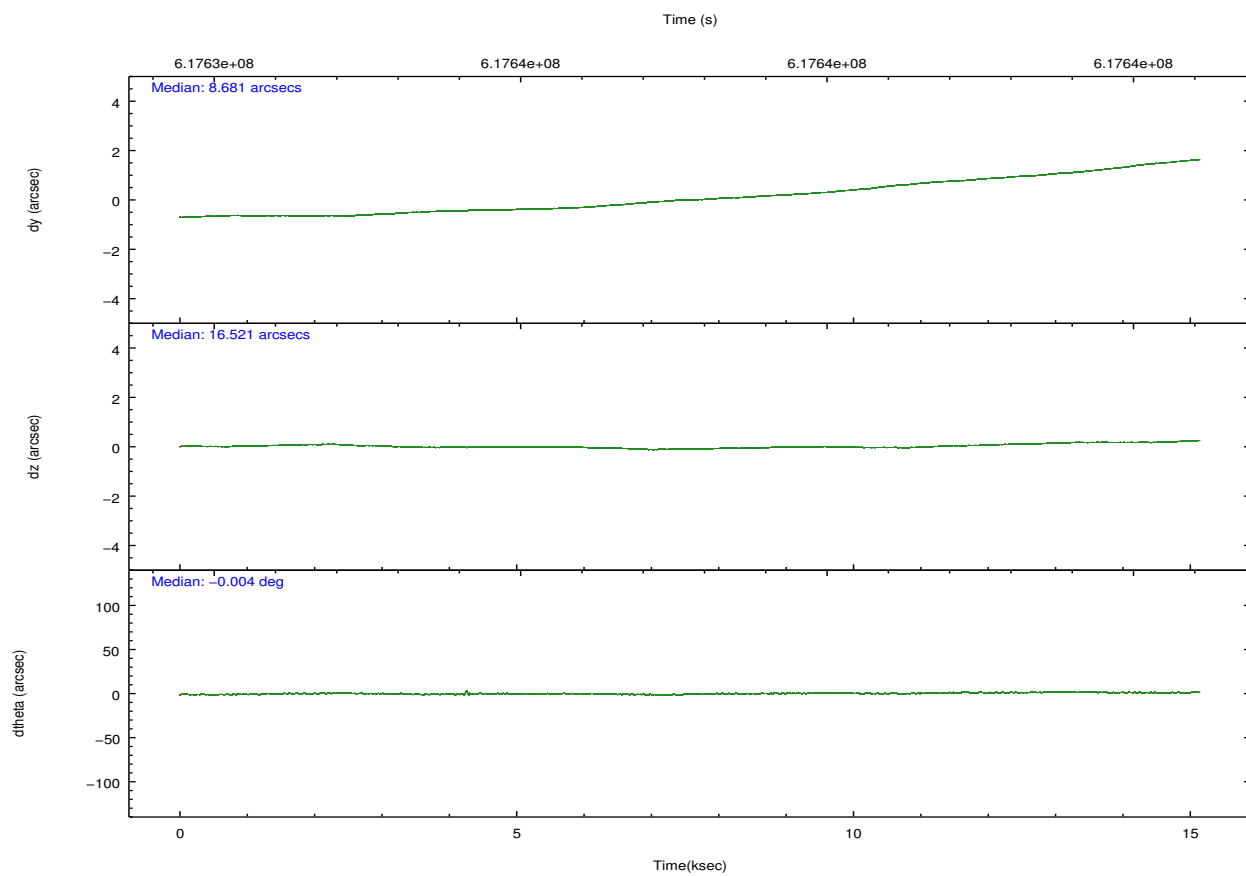
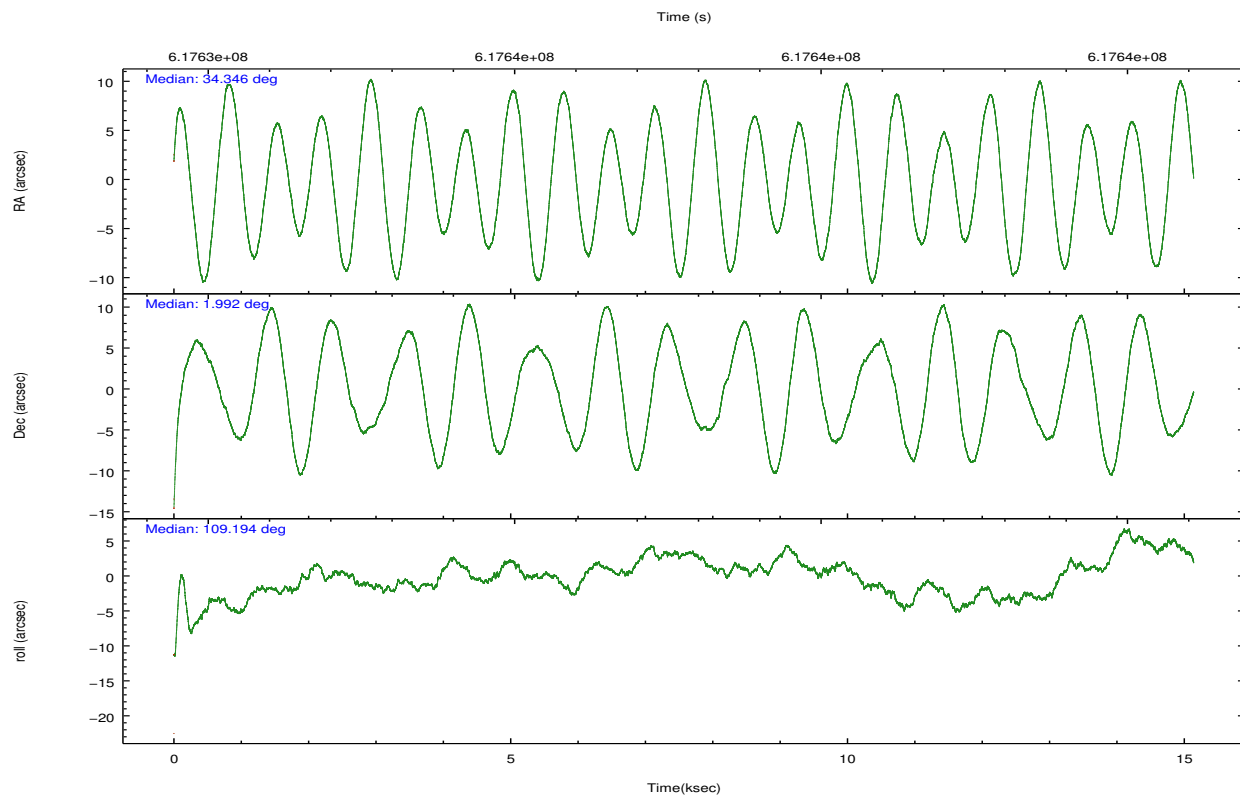
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3885	4080	4141	5012	11540
	3%	4%	3%	3%	8%
grade 1 events	64	56	50	195	100
	0%	0%	0%	0%	0%
grade 2 events	2787	2348	2866	12410	9550
	2%	2%	2%	9%	6%
grade 3 events	1068	1154	1221	4904	4109
	1%	1%	1%	3%	2%
grade 4 events	1132	1142	1204	4735	3974
	1%	1%	1%	3%	2%
grade 5 events	4184	4988	5080	13520	7406
	4%	5%	4%	10%	5%
grade 6 events	2202	2210	2637	31284	10680
	2%	2%	2%	23%	7%
grade 7 events	84124	80207	87402	61290	94191
	84%	83%	83%	45%	66%

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	34.367003	34.34600847860231	CCD I2 on	O1	Y
[deg] Pointing Dec	1.974614	1.992263889637231	CCD I3 on	Y	Y
[deg] Pointing Roll	109.030220	109.1875681516236	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)	617630343.184000	617628964.42225	CCD S5 on	N	N
Observation start date	2017-07-28T11:57:54	2017-07-28T11:36:04	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	617645343.184000	617646051.68575	On-chip summing requested	N	N
Observation end date	2017-07-28T16:07:54	2017-07-28T16:20:51	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



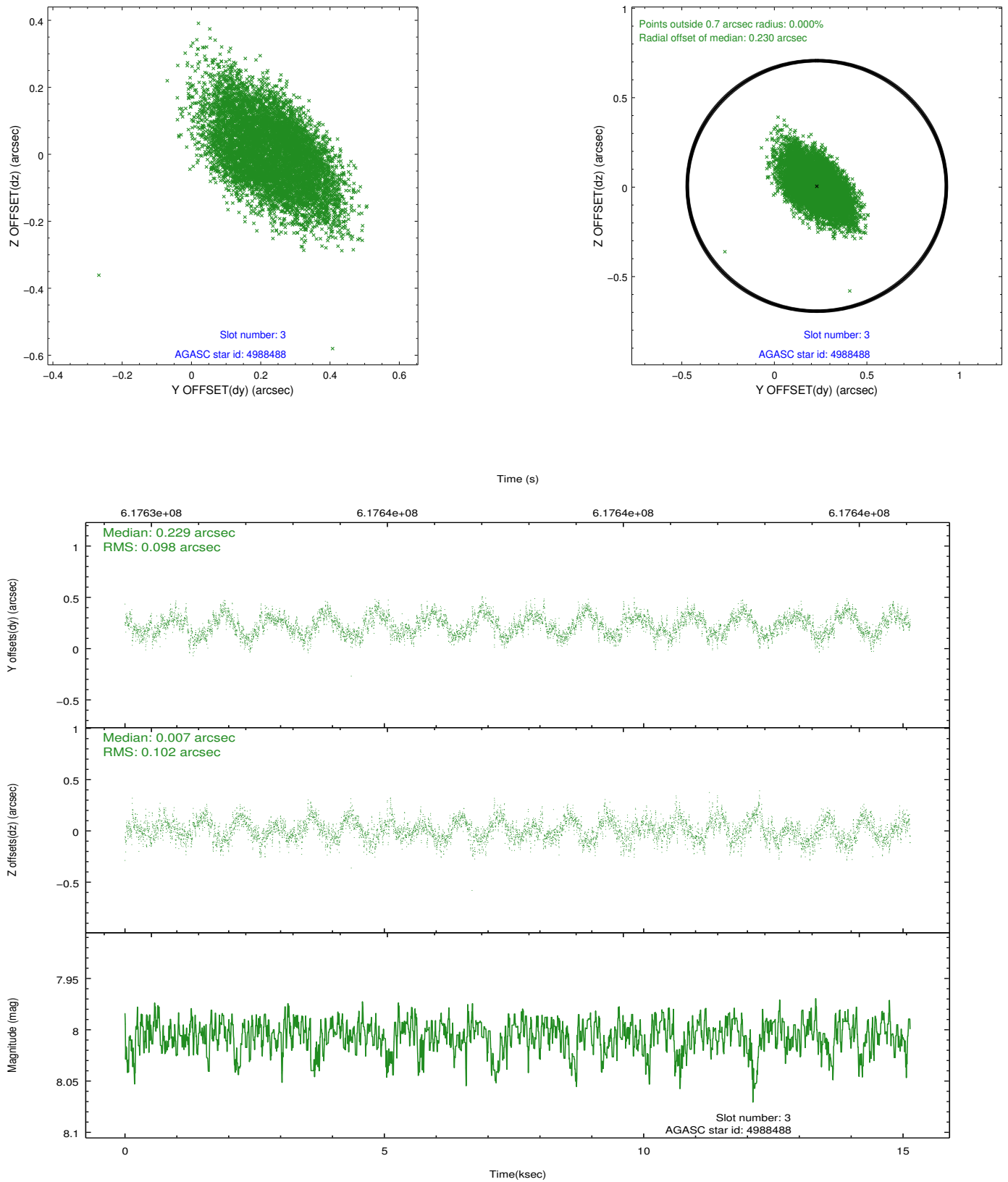


Slot Statistics

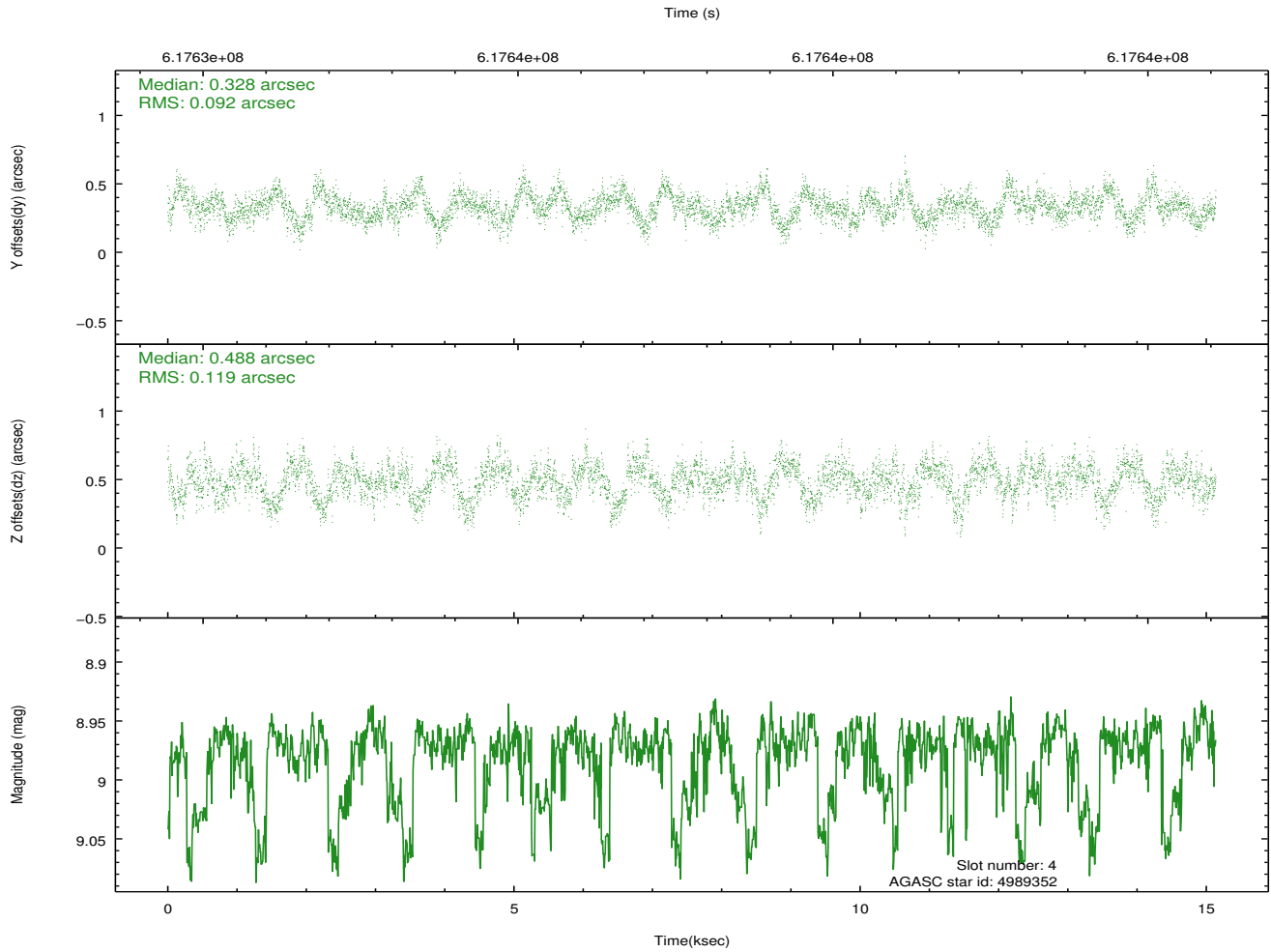
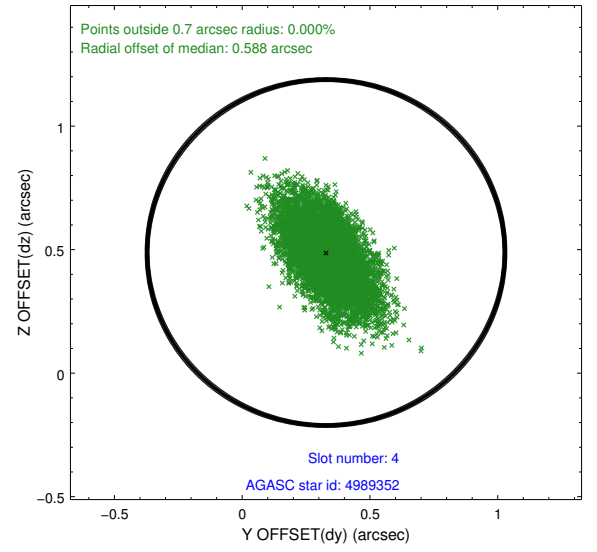
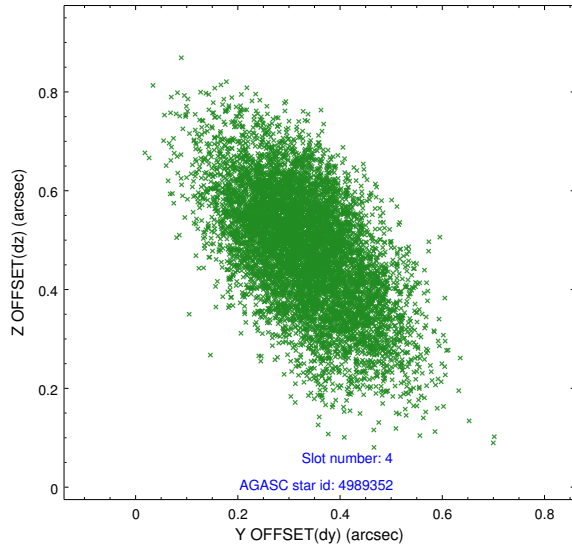
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.89	3693	-0.134	-0.033	0.010	0.018	0.000000	0.000000	-761.75	-1738.01
1	FID		ACIS-S-4	7.00	3693	0.341	0.073	0.027	0.035	0.000000	0.000000	2151.86	170.29
2	FID		ACIS-S-5	7.00	3692	-0.239	-0.033	0.020	0.030	0.000000	0.000000	-1814.32	164.17
3	GUIDE	used	4988488	8.01	7385	0.229	0.007	0.148	0.245	34.298941	1.508701	-1505.15	778.74
4	GUIDE	used	4989352	8.98	7383	0.328	0.488	0.156	0.273	34.701469	1.967173	-417.30	-1128.18
5	GUIDE	used	4991328	7.52	7383	0.127	-0.073	0.105	0.192	34.306149	1.860429	-316.81	341.11
6	GUIDE	used	5377096	7.79	7385	-0.121	0.437	0.098	0.177	34.209855	2.576194	2231.24	-172.20
7	GUIDE	used	4990416	9.32	7377	-0.570	-0.851	0.142	0.236	33.820777	2.374550	2002.25	1386.84

2.4 Star Slots

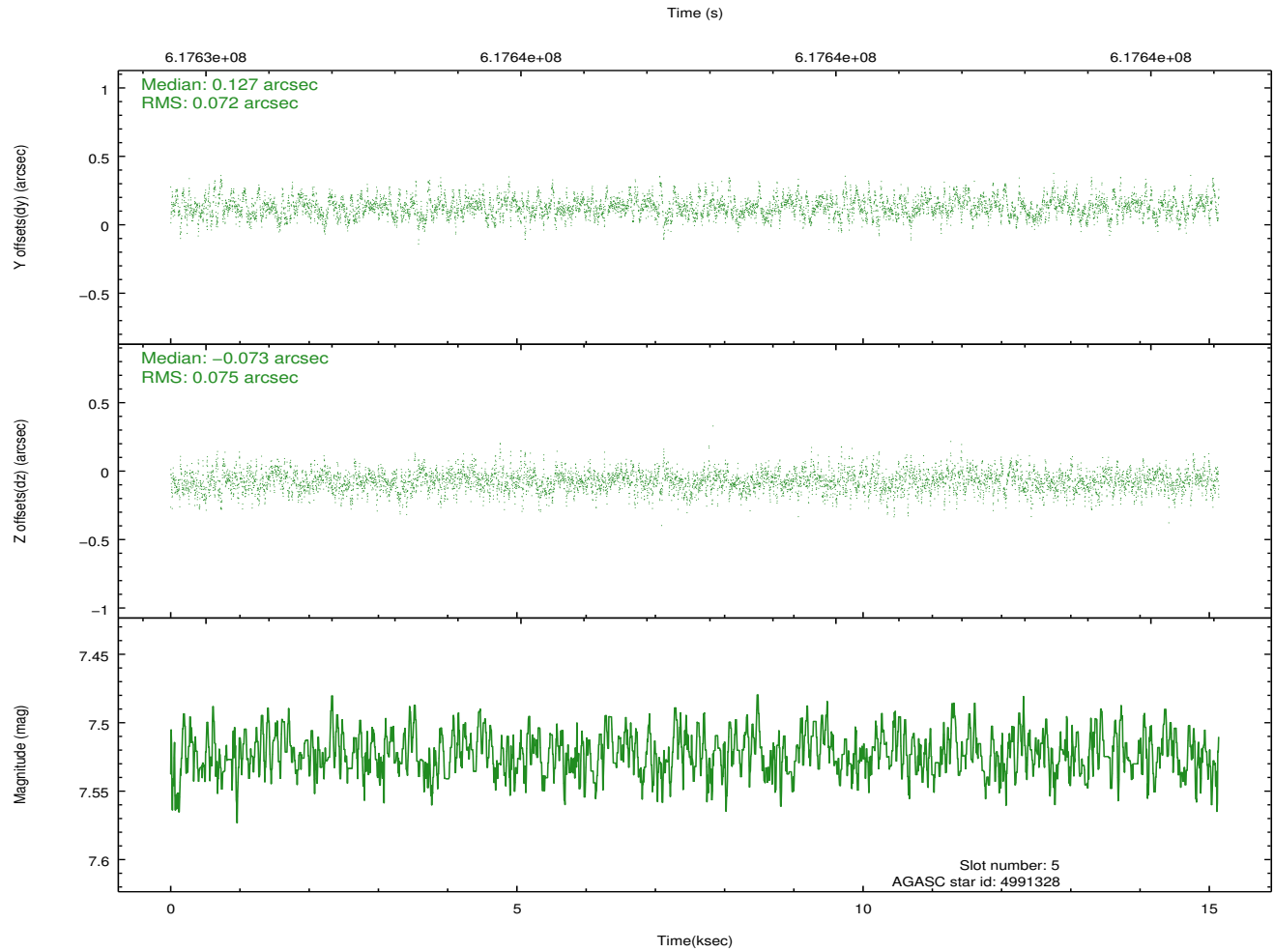
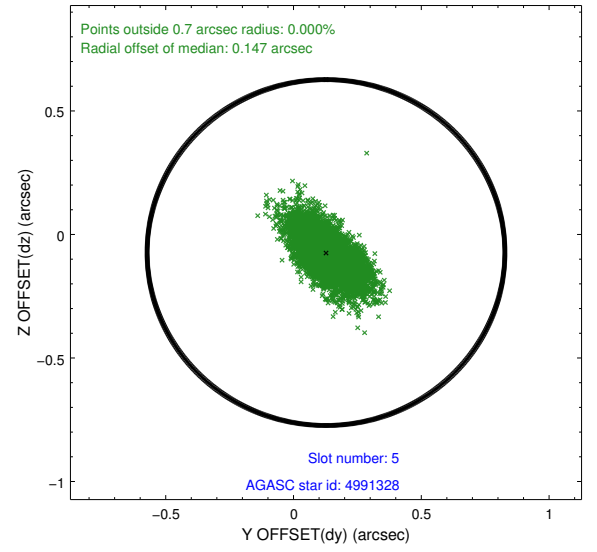
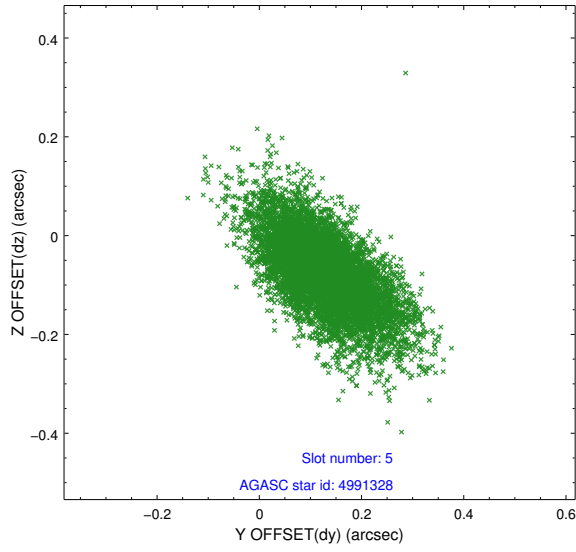
2.4.1 Slot 3



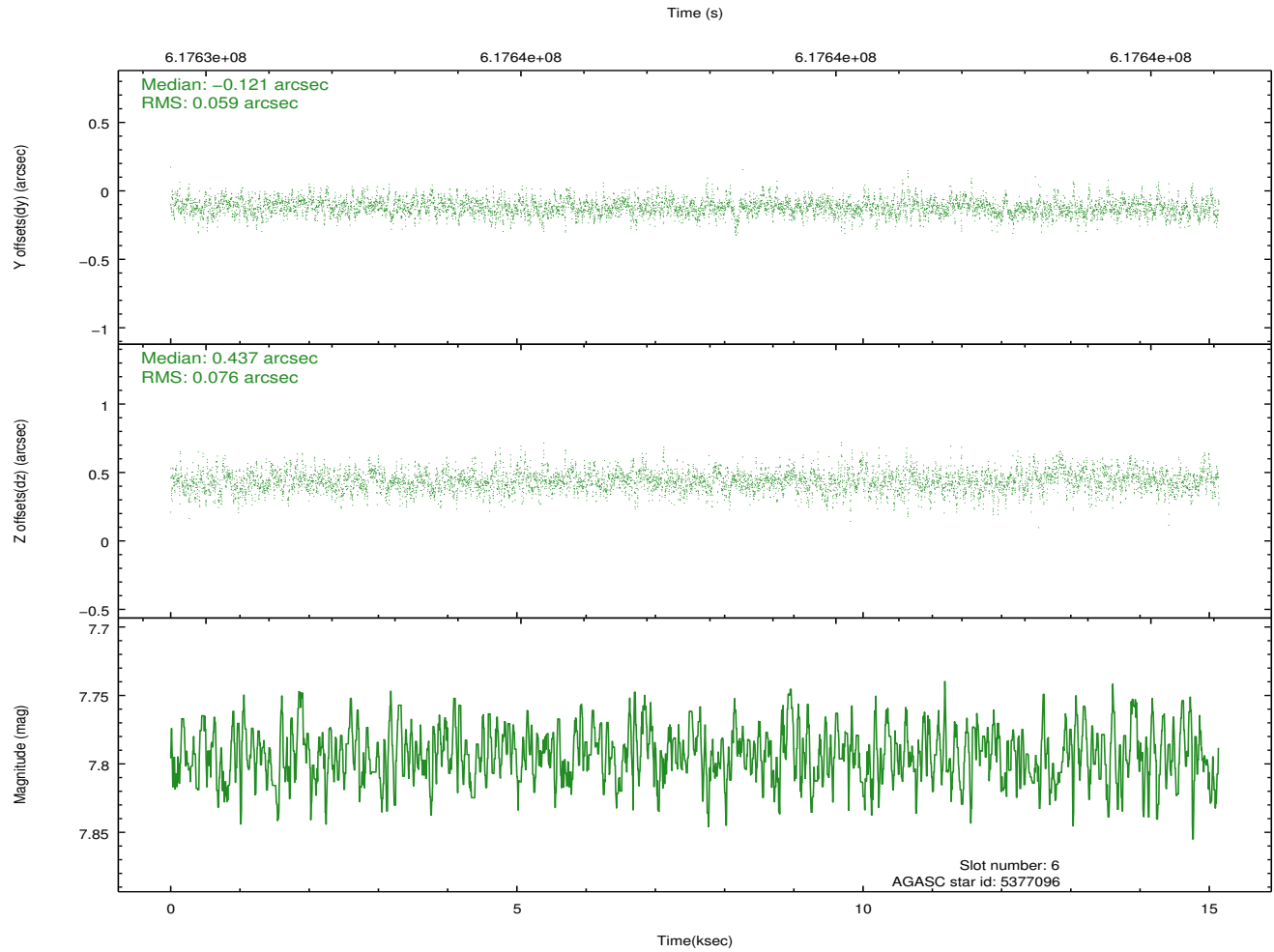
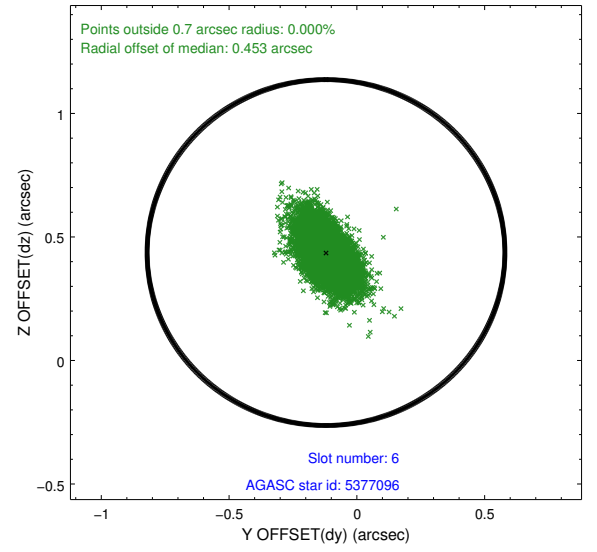
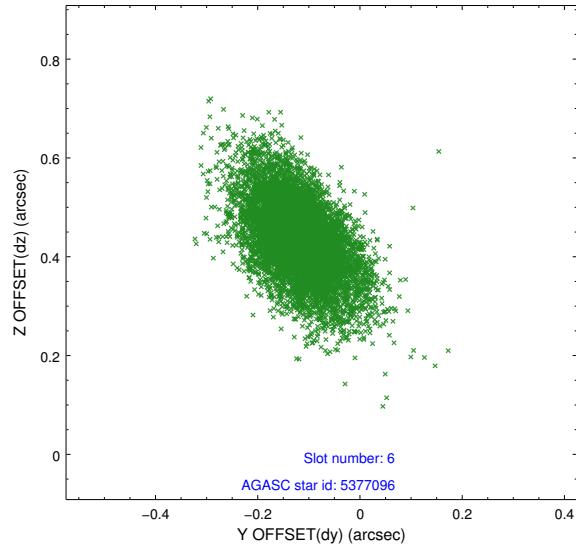
2.4.2 Slot 4



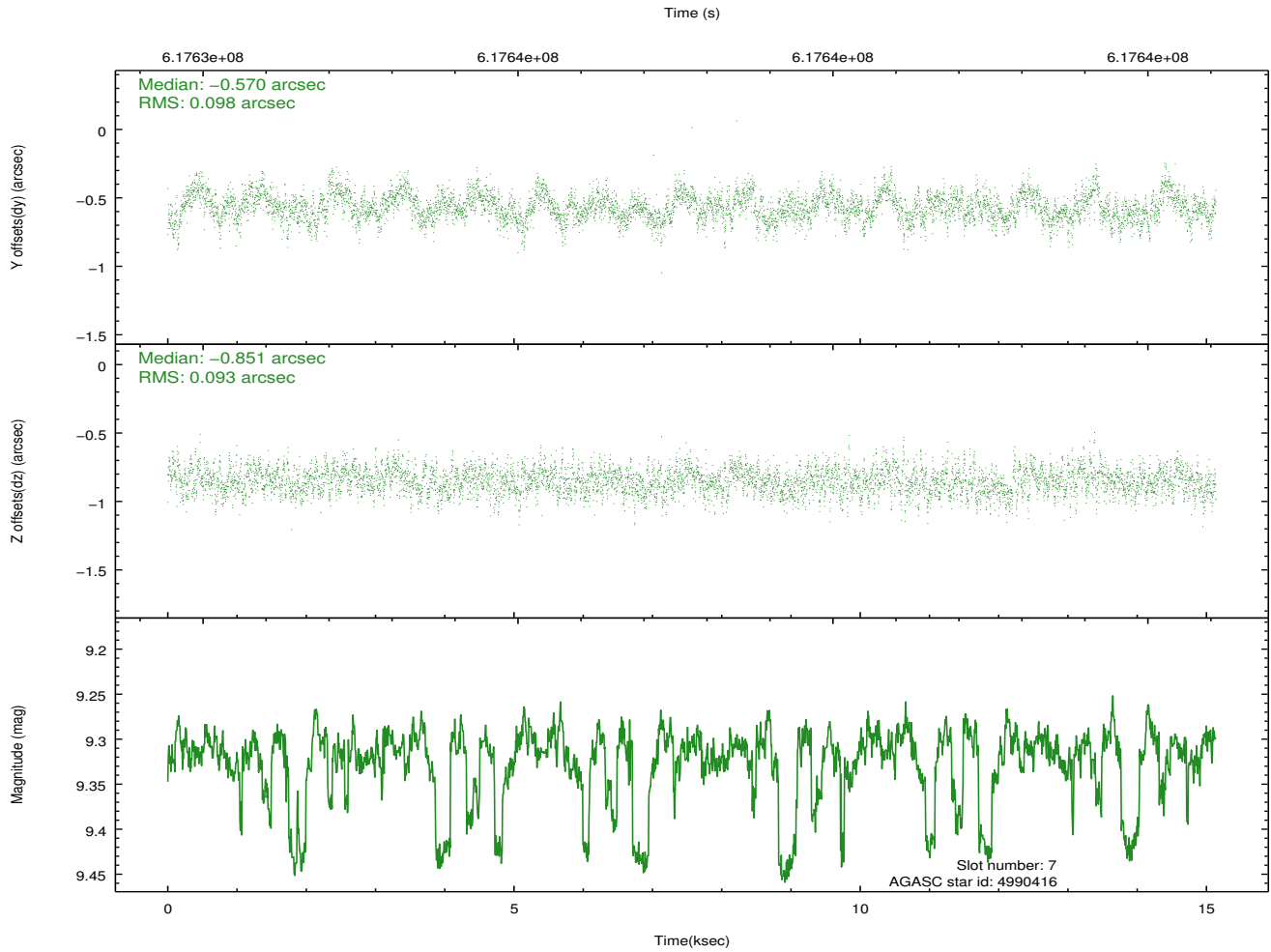
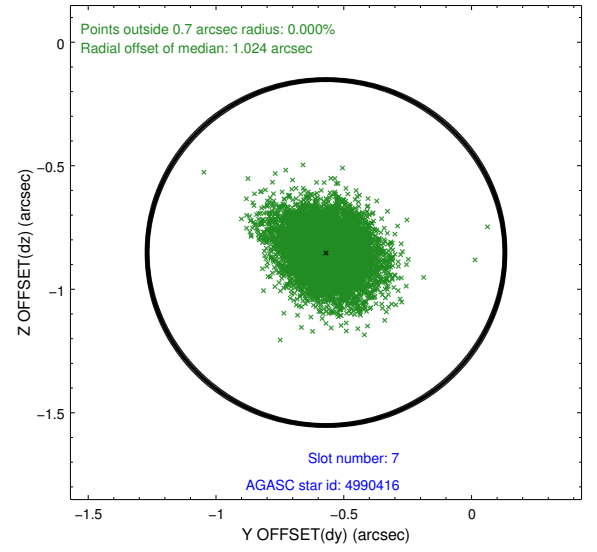
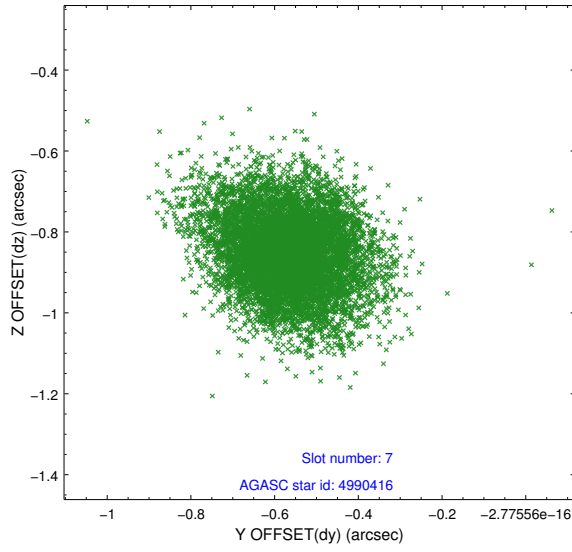
2.4.3 Slot 5



2.4.4 Slot 6

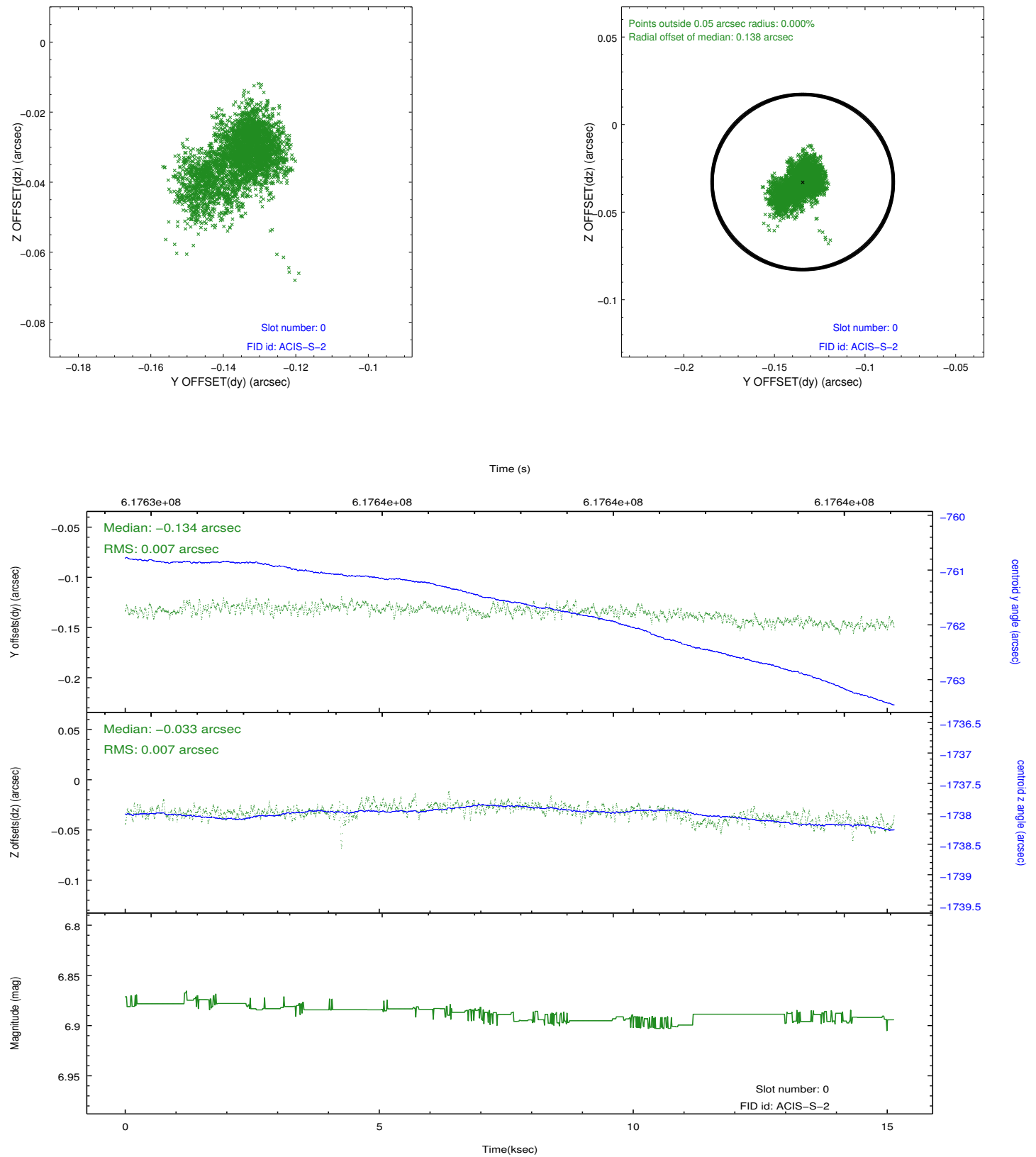


2.4.5 Slot 7

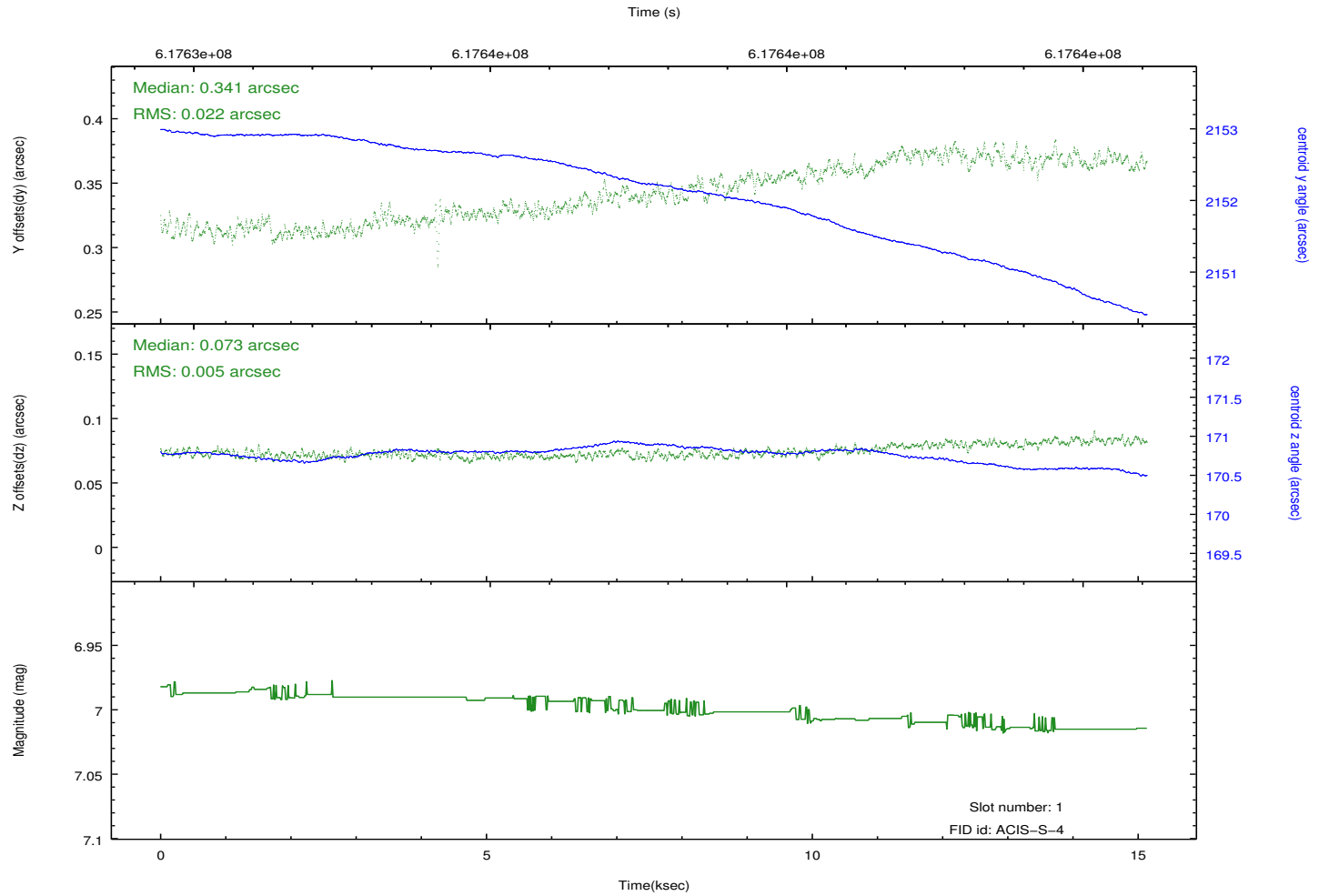
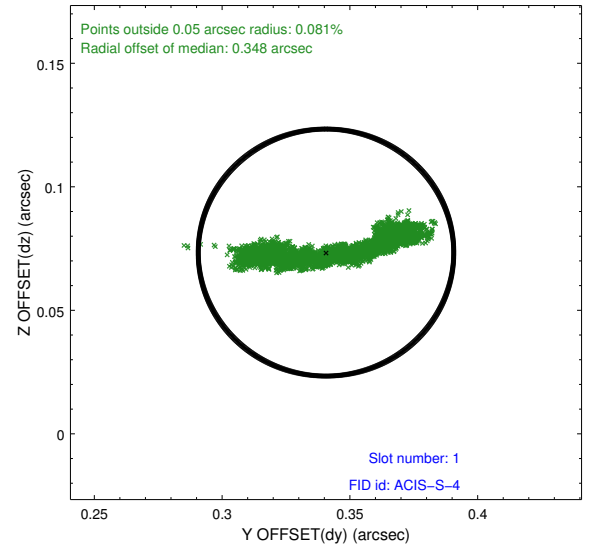
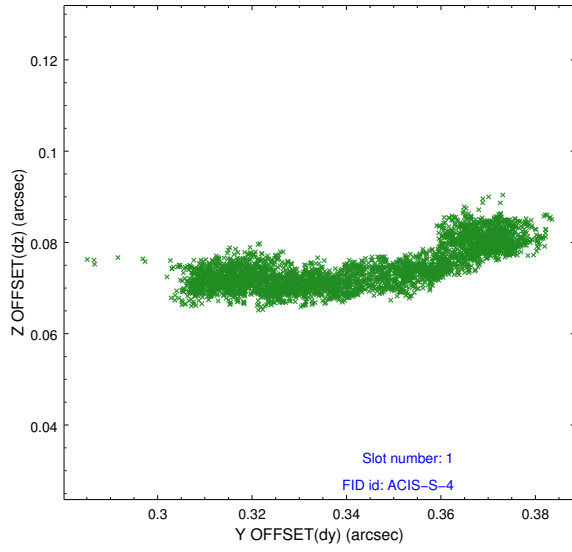


2.5 FID Slots

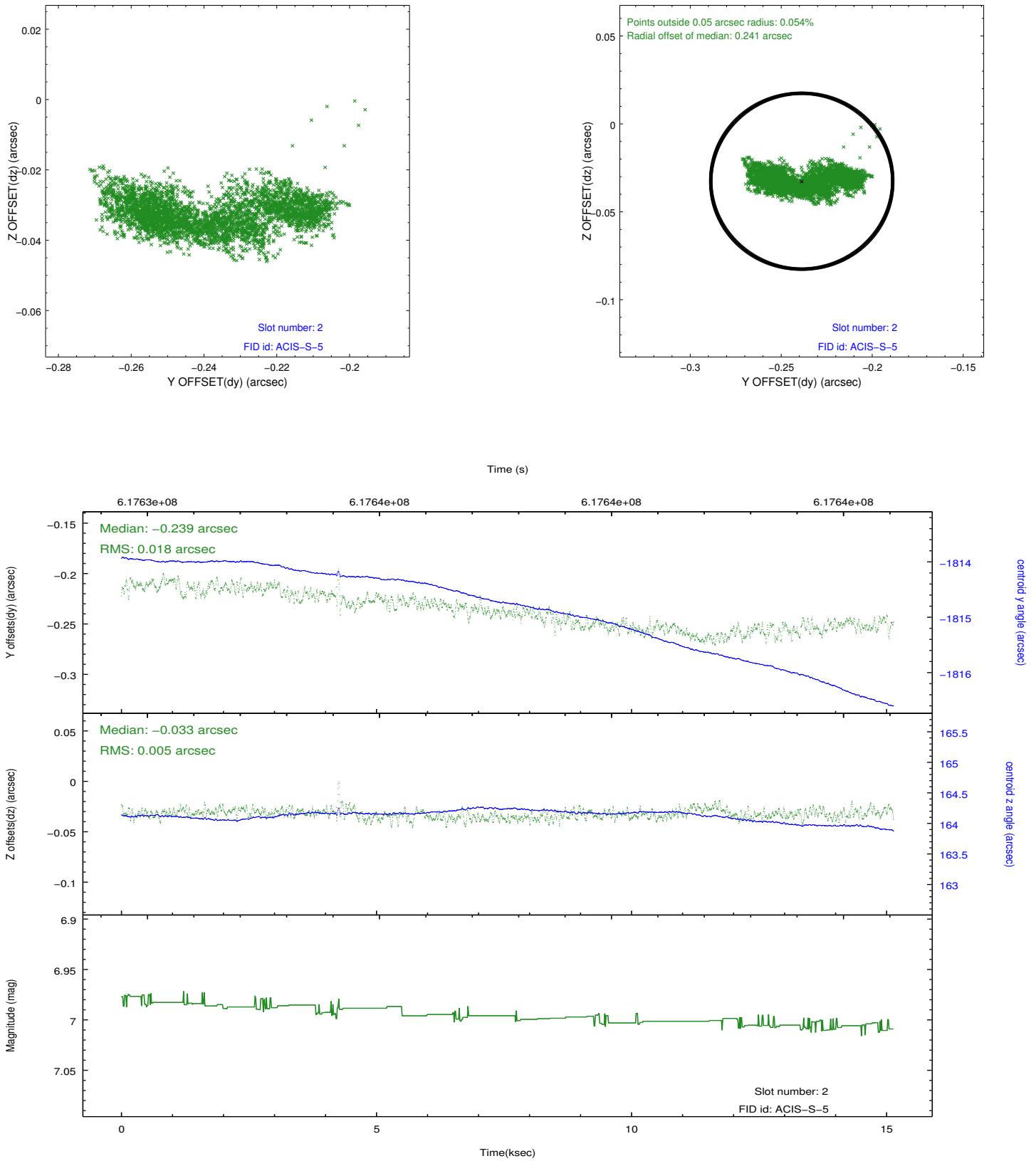
2.5.1 Slot 0



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)	2017.07.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.059261750579

A.2 Comments