

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19765 - L2 Version 1
Chandra X-Ray Center

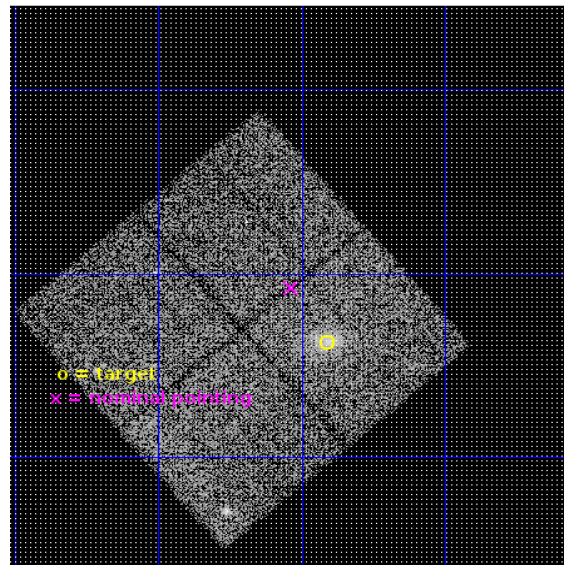
L2 Processing Date : Nov 15 2017

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1 Front

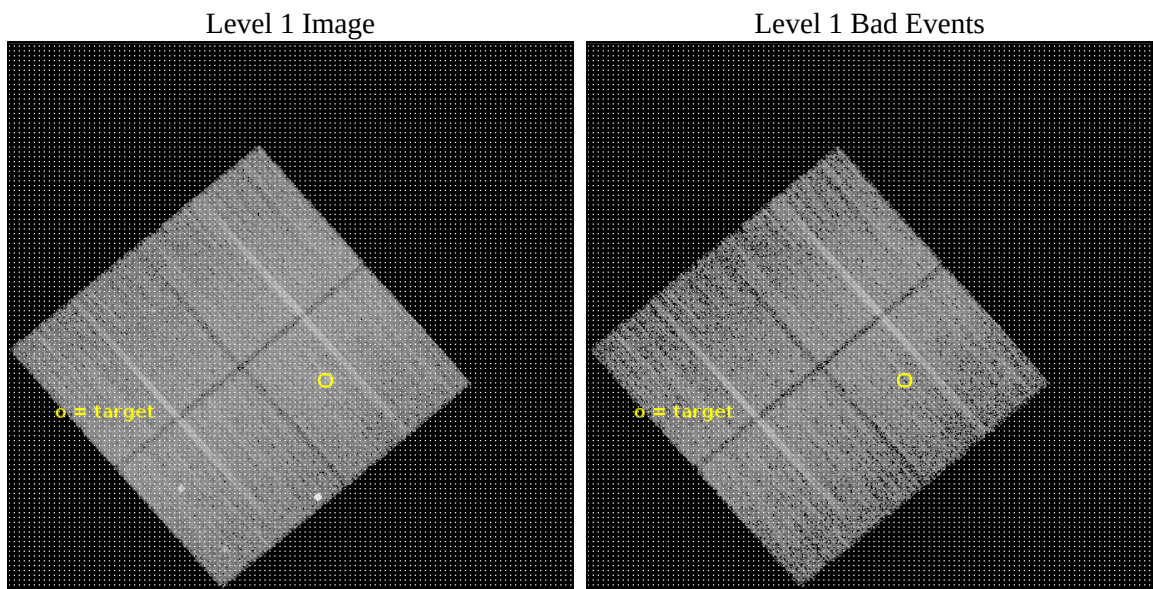
seq_num	801702	Sequence number
obs_id	19765	Observation id
title	Calibrating the Mass-Proxy vs. Mass Relation - from X-ray observables to Weak Lensing Masses	Proposal title
observer	Ralph Kraft	Principal investigator
object	MACSJ0451.9+0006	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	72.977083	Observer's specified target RA [deg]
dec_targ	0.103972	Observer's specified target Dec [deg]
ra_nom	73.008847599898	Nominal RA [deg]
dec_nom	0.15401906754283	Nominal Dec [deg]
roll_nom	49.472091894037	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20081.800154567	Sum of GTIs [s]
livetime	19819.416651541	Livetime [s]
ontime0	20081.800154567	Sum of GTIs [s]
ontime1	20078.659094453	Sum of GTIs [s]
ontime2	20081.800154567	Sum of GTIs [s]
ontime3	20081.800154567	Sum of GTIs [s]
l2events	54931	Number of level 2 events



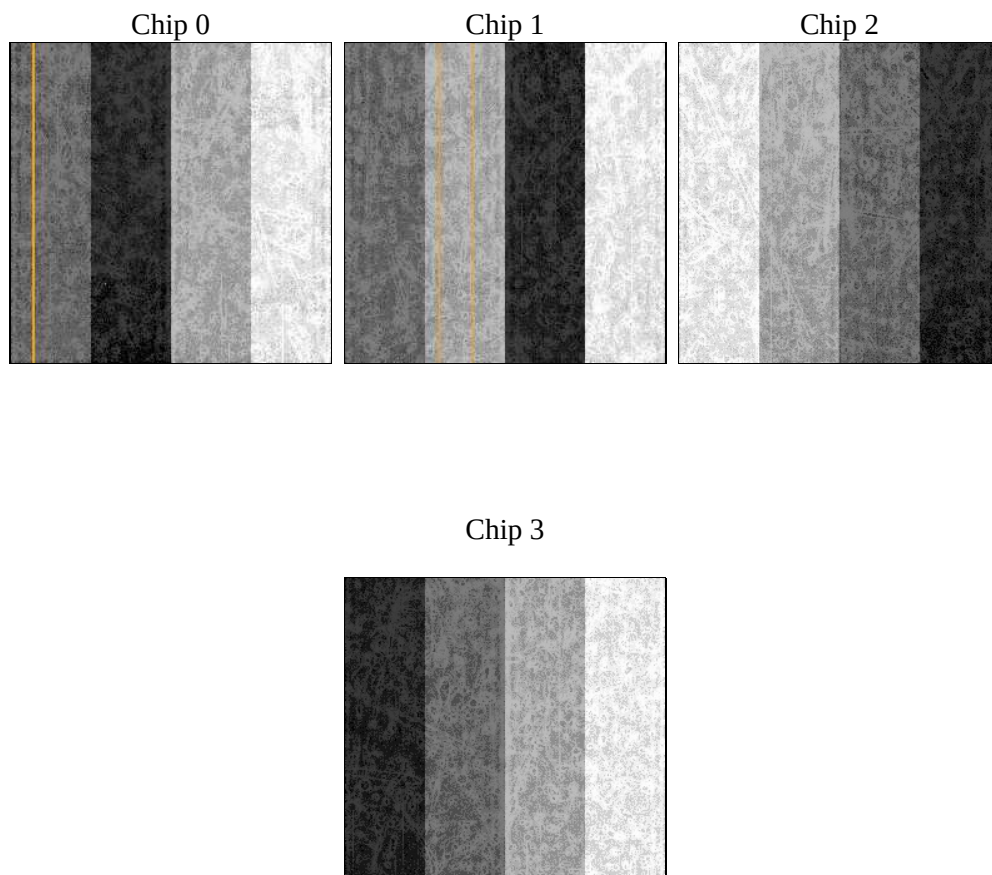
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	20081.800154567	Sum of GTIs [s]
caldsver	4.7.6	 	ontime0	20081.800154567	Sum of GTIs [s]
date	2017-11-15T19:53:15	Date and time of file creation	ontime1	20078.659094453	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	20081.800154567	Sum of GTIs [s]
			ontime3	20081.800154567	Sum of GTIs [s]
			l1events	533047	Number of level 1 events

2.1.4 Events

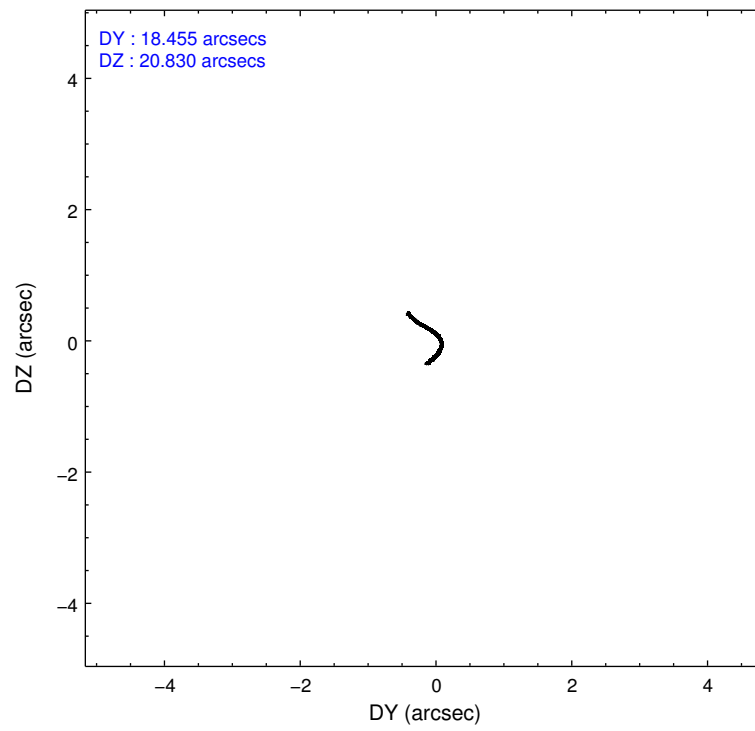
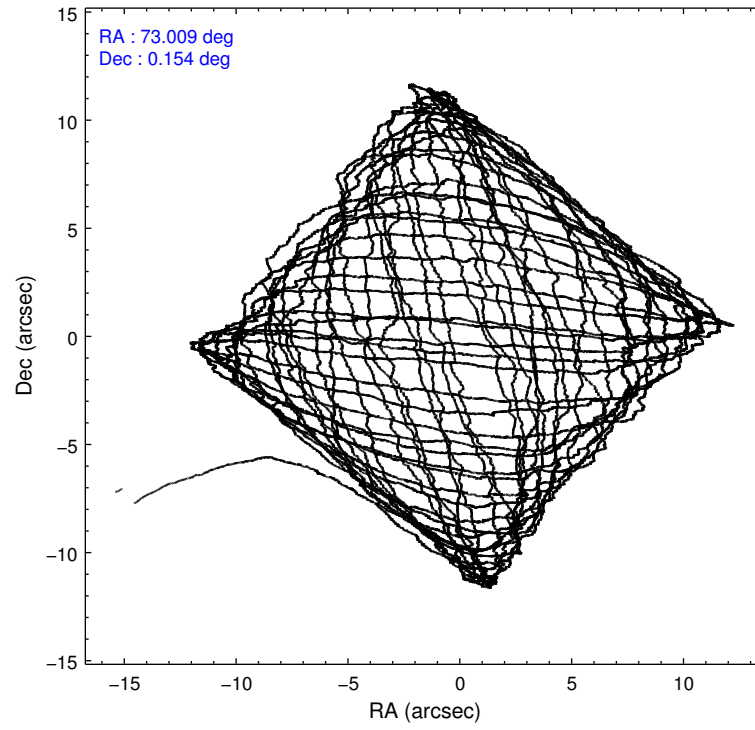
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	122403	136009	138422	136213
rejected events	106674	111912	123405	118906
rejected %	87%	82%	89%	87%

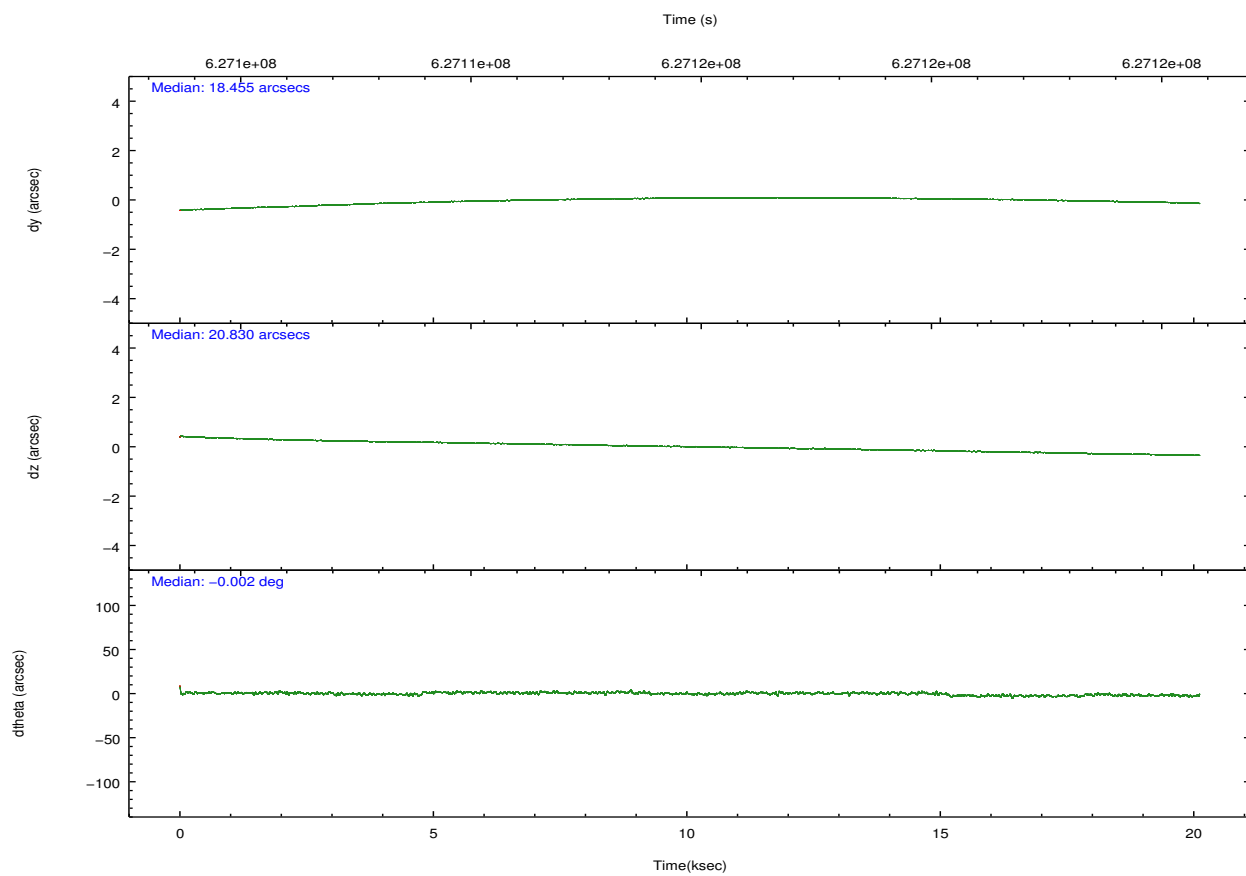
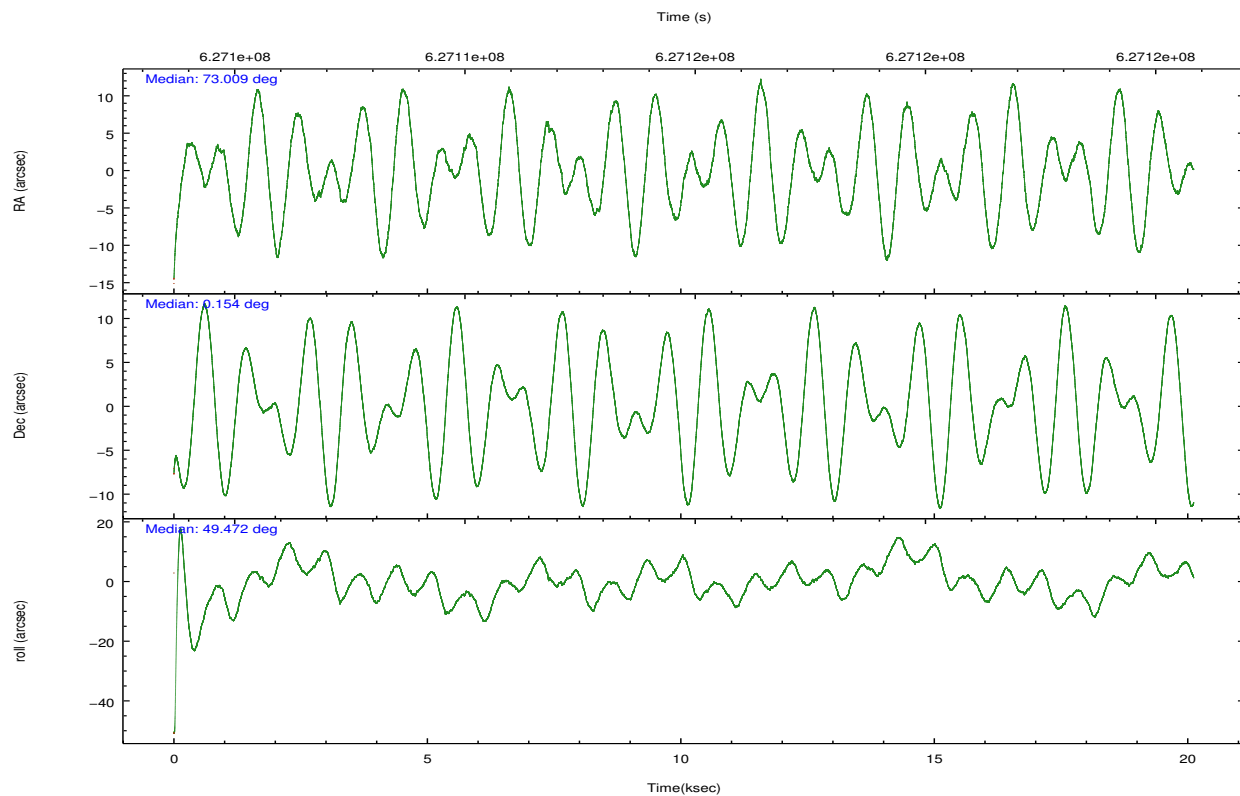
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	5569	12869	5457	7215
	4%	9%	3%	5%
grade 1 events	61	111	79	87
	0%	0%	0%	0%
grade 2 events	3907	4144	3509	3592
	3%	3%	2%	2%
grade 3 events	1646	1638	1520	1731
	1%	1%	1%	1%
grade 4 events	1470	1560	1569	1670
	1%	1%	1%	1%
grade 5 events	5913	6208	5508	6770
	4%	4%	3%	4%
grade 6 events	3146	3891	2966	3105
	2%	2%	2%	2%
grade 7 events	100691	105588	117814	112043
	82%	77%	85%	82%

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	73.003911	73.00884759989829	CCD I2 on	Y	Y
[deg] Pointing Dec	0.126886	0.1540190675428312	CCD I3 on	Y	Y
[deg] Pointing Roll	49.263468	49.47209189403683	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	-225.842463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	627104819.184000	627103295.20174	CCD S5 on	N	N
Observation start date	2017-11-15T03:45:50	2017-11-15T03:21:35	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	627124819.184000	627125792.41556	On-chip summing requested	N	N
Observation end date	2017-11-15T09:19:10	2017-11-15T09:36:32	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



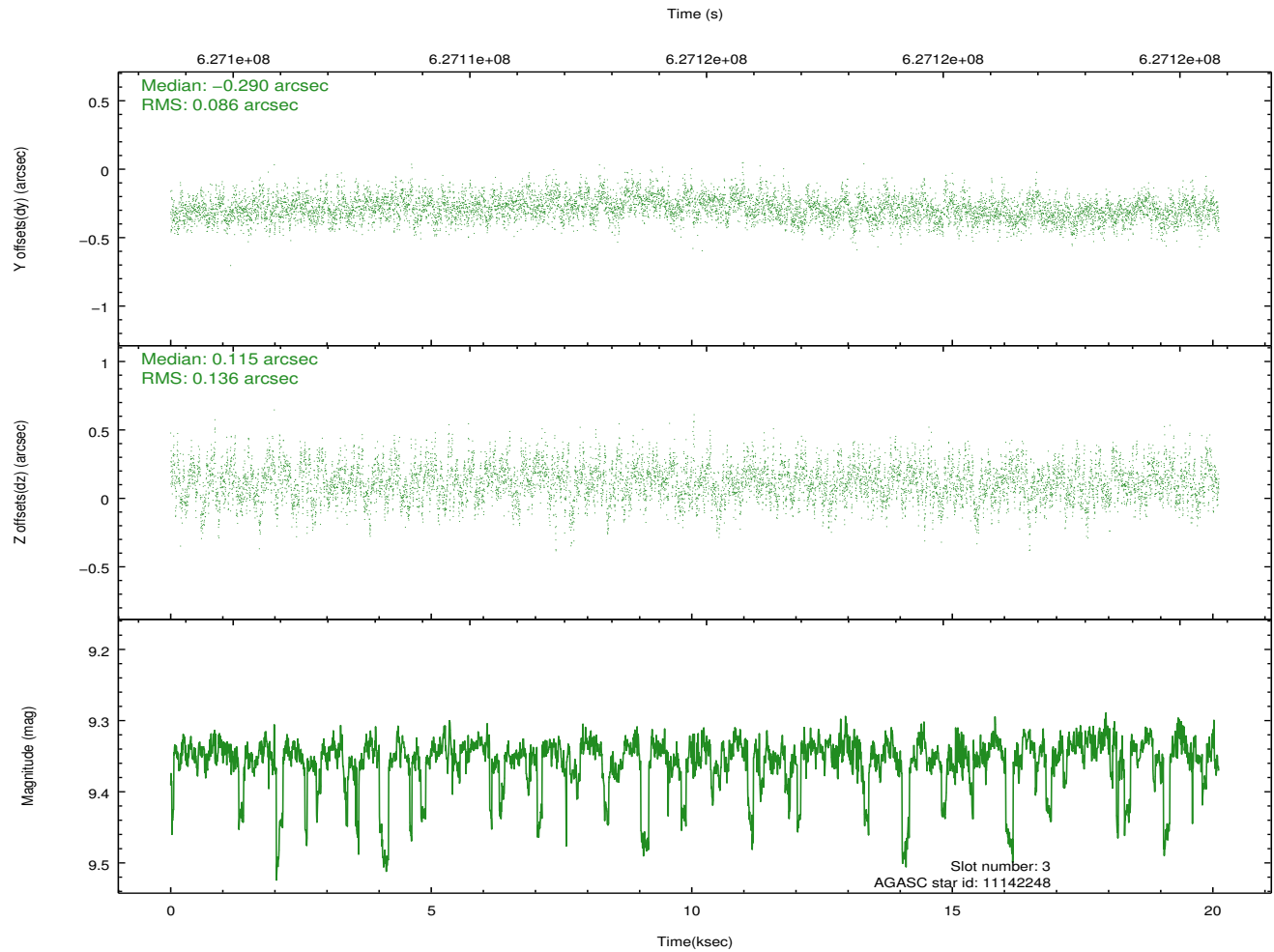
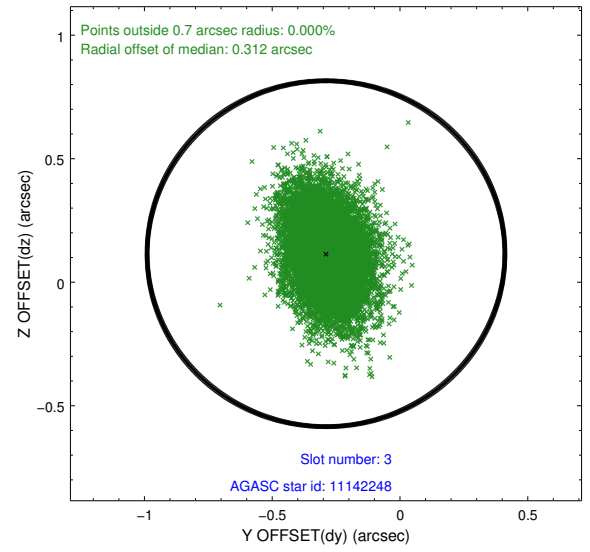
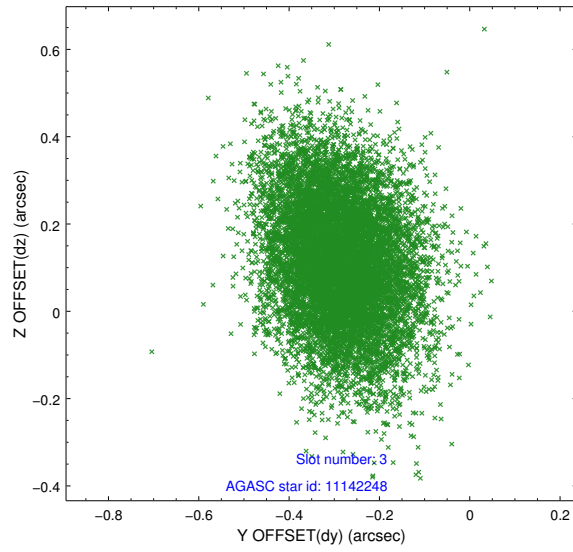


Slot Statistics

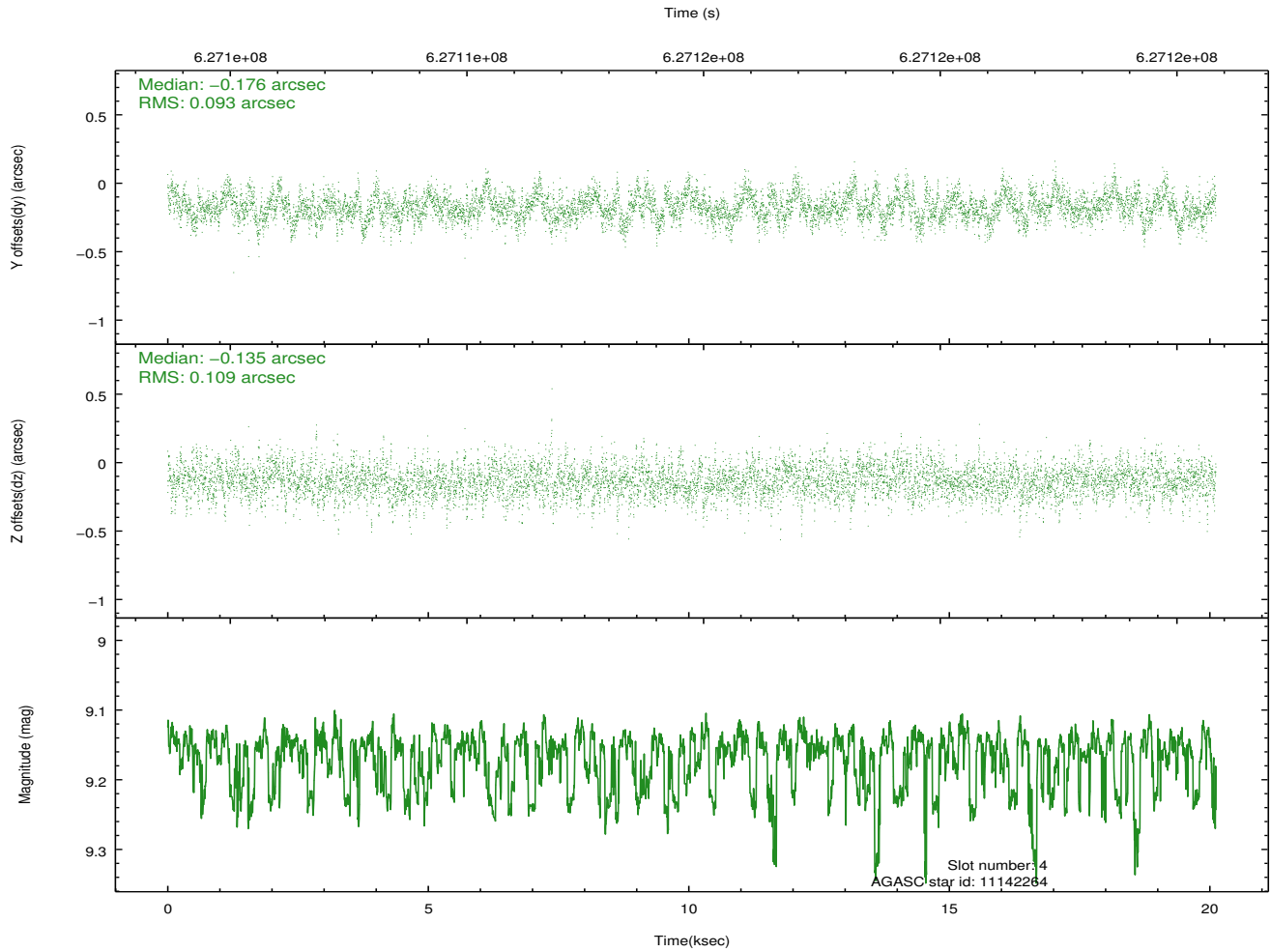
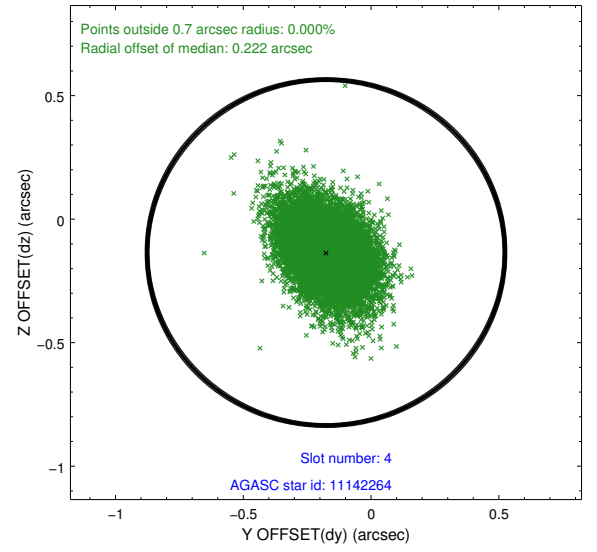
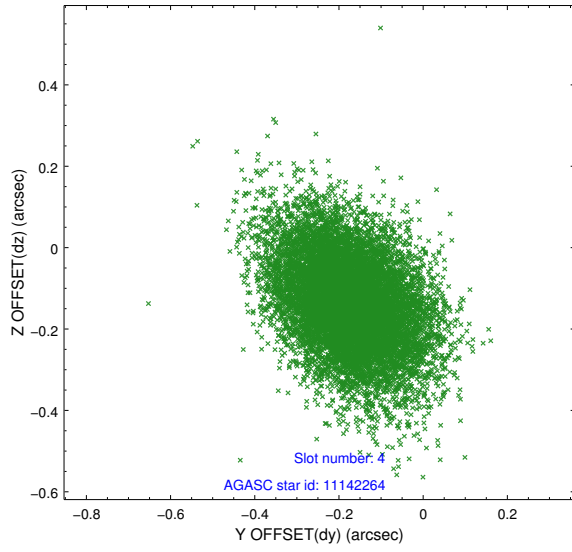
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.16	4907	0.134	-0.126	0.016	0.026	0.000000	0.000000	920.94	-1003.79
1	FID		ACIS-I-2	7.13	4907	-0.472	-0.099	0.009	0.014	0.000000	0.000000	-774.06	-1009.29
2	FID		ACIS-I-4	7.08	4907	0.240	0.290	0.016	0.025	0.000000	0.000000	2140.42	897.26
3	GUIDE	used	11142248	9.35	9798	-0.290	0.115	0.167	0.287	73.305083	0.415306	1494.52	-143.67
4	GUIDE	used	11142264	9.16	9805	-0.176	-0.135	0.149	0.256	73.396604	0.253700	1268.99	-773.26
5	GUIDE	used	620764456	8.75	9800	0.137	0.200	0.151	0.267	72.919857	-0.086986	-780.07	-272.93
6	GUIDE	used	620764584	7.10	9812	-0.085	-0.106	0.116	0.206	72.705700	-0.094970	-1305.92	291.49
7	GUIDE	used	11019896	8.35	9810	0.407	-0.070	0.117	0.210	73.037984	0.047559	-135.54	-279.22

2.4 Star Slots

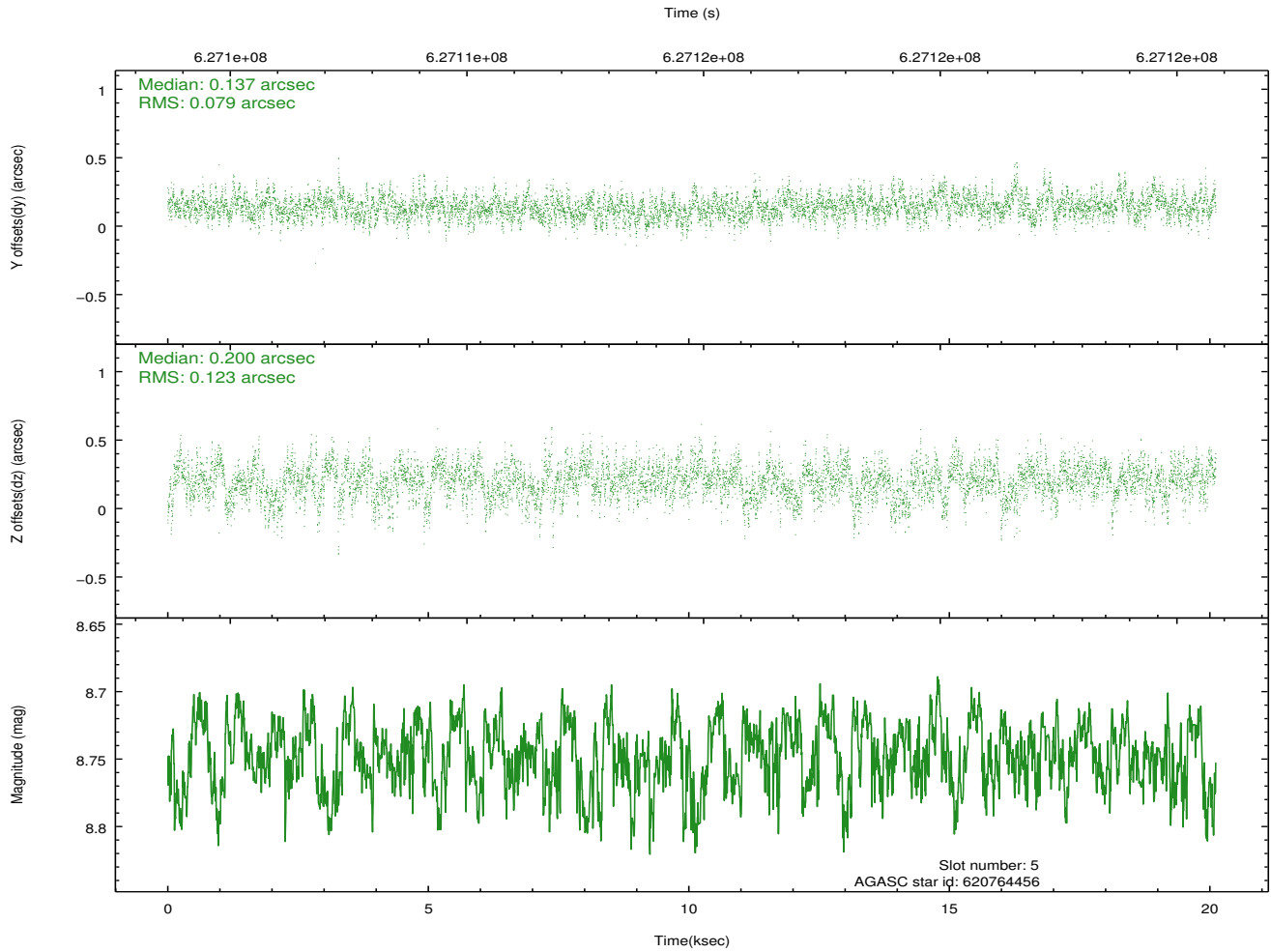
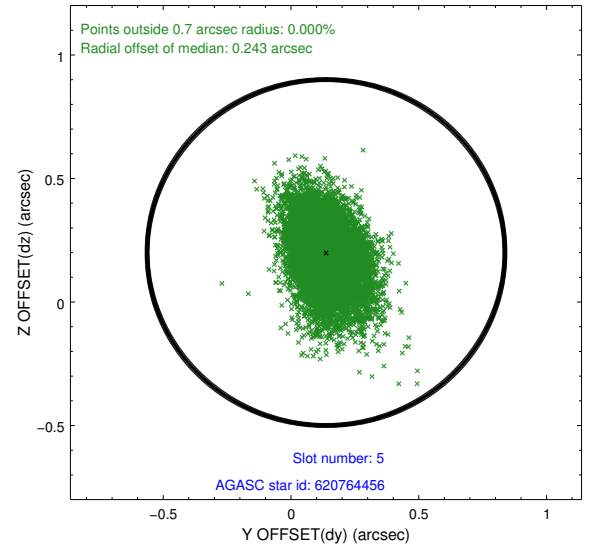
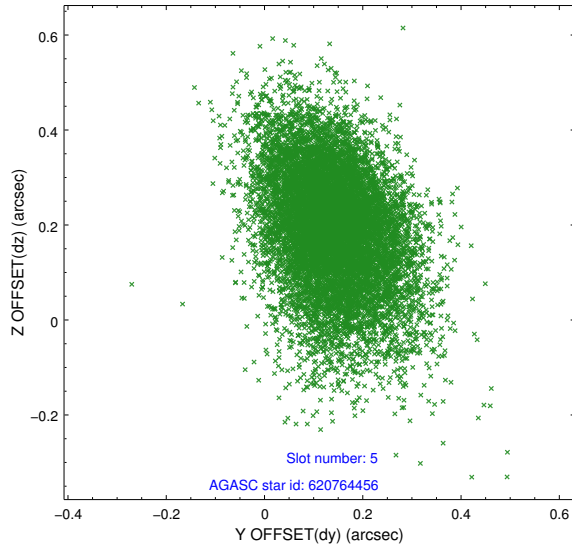
2.4.1 Slot 3



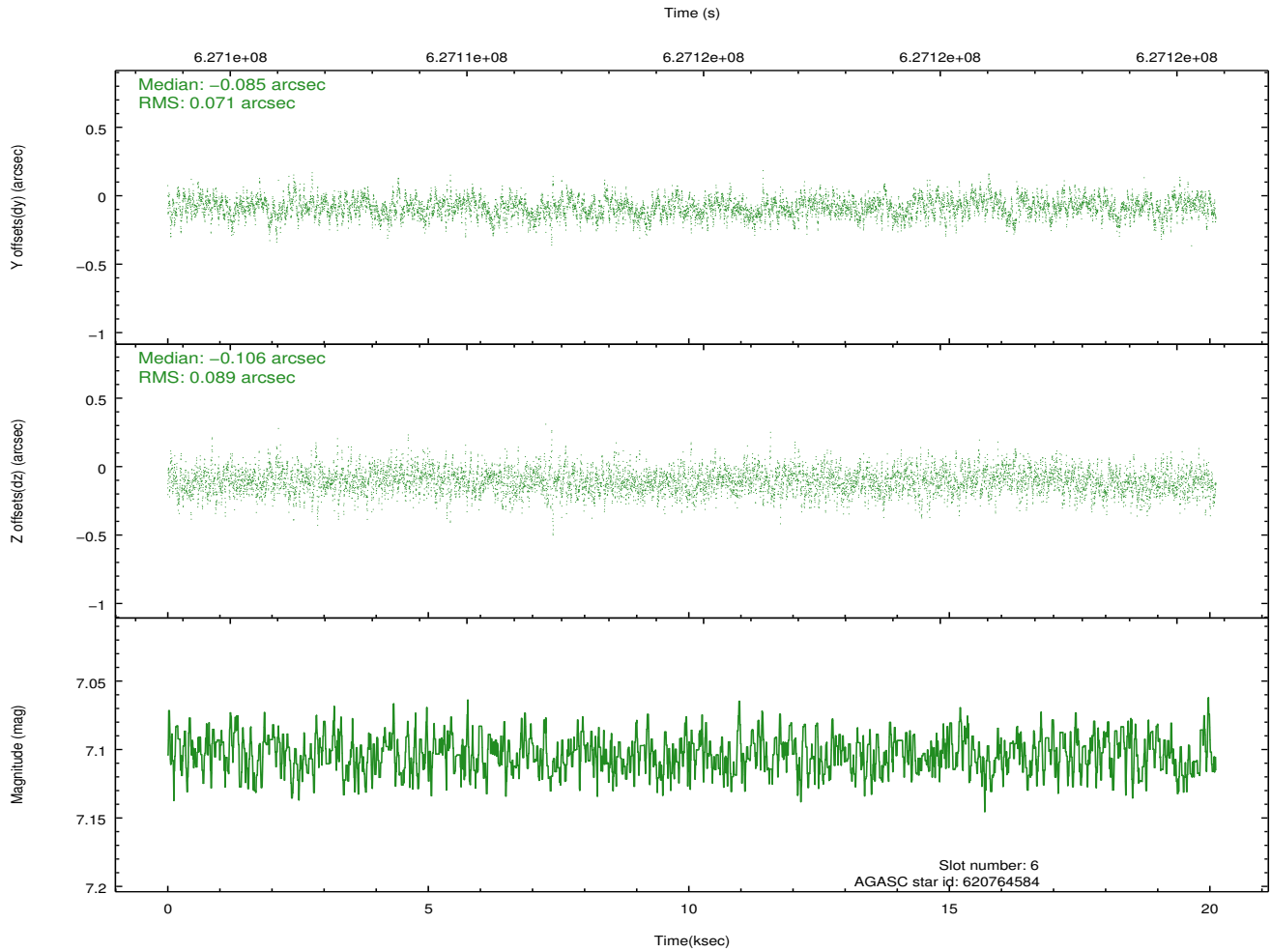
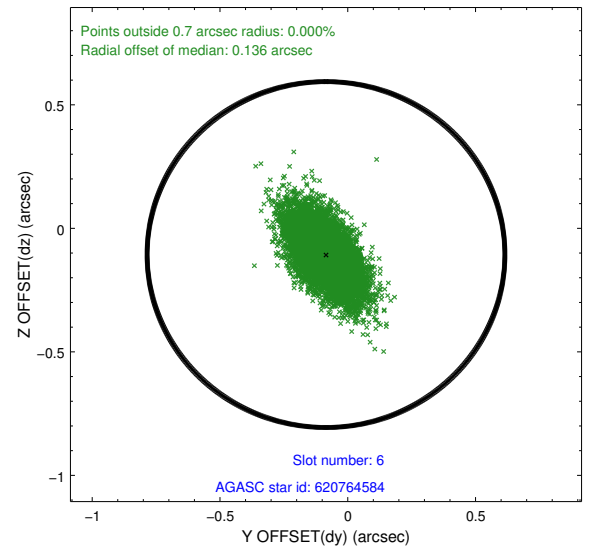
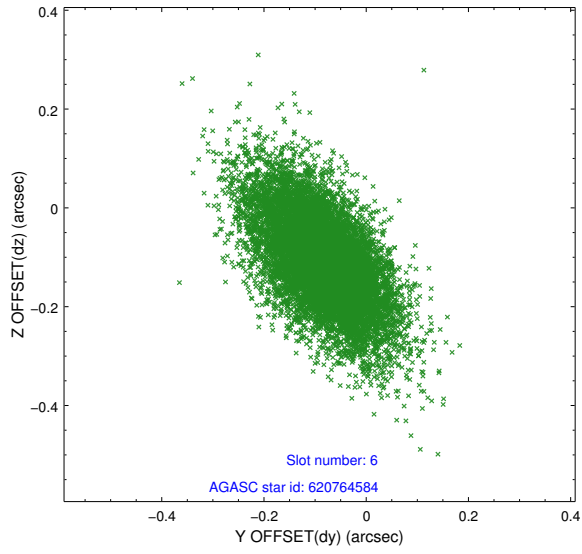
2.4.2 Slot 4



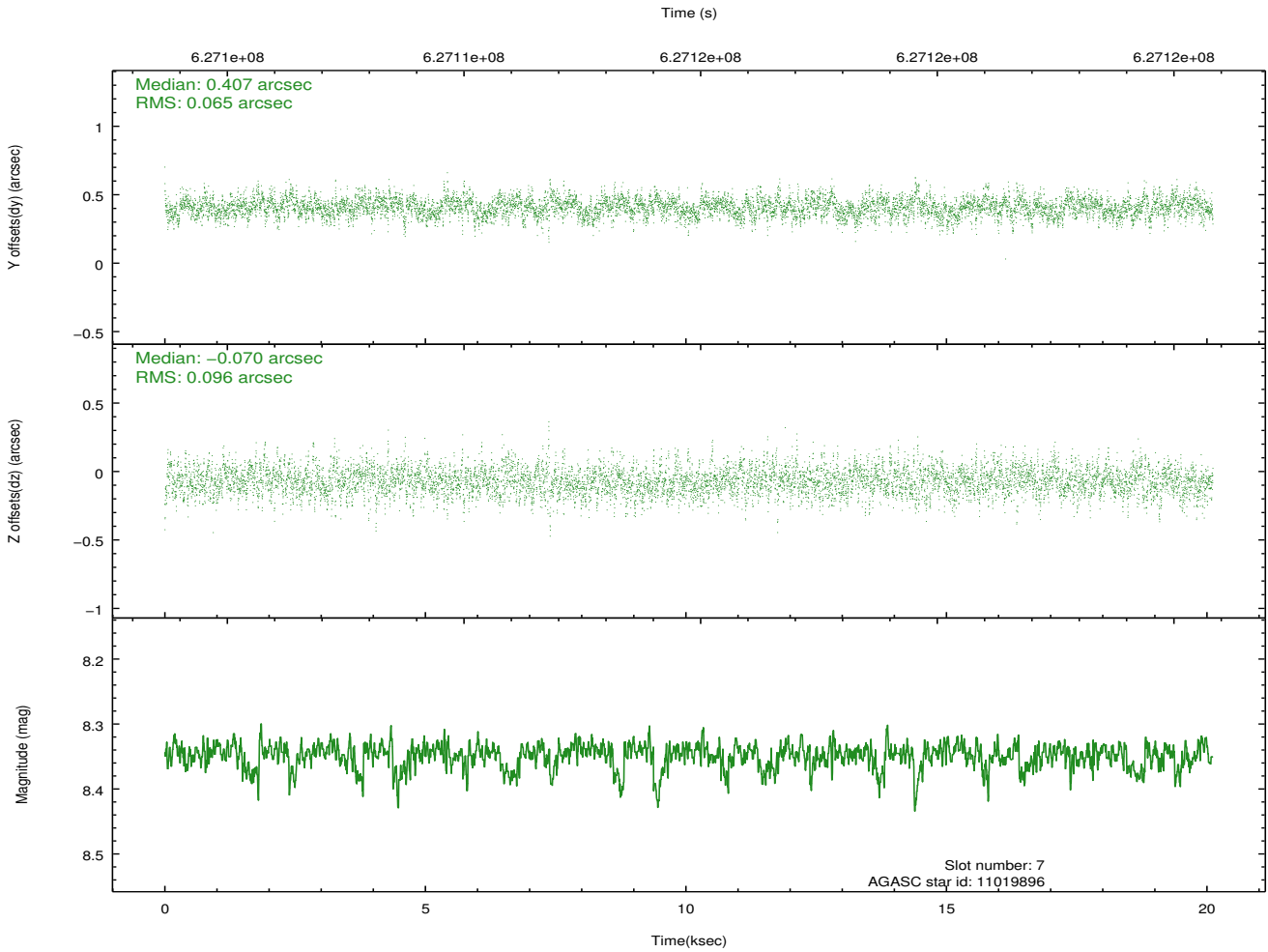
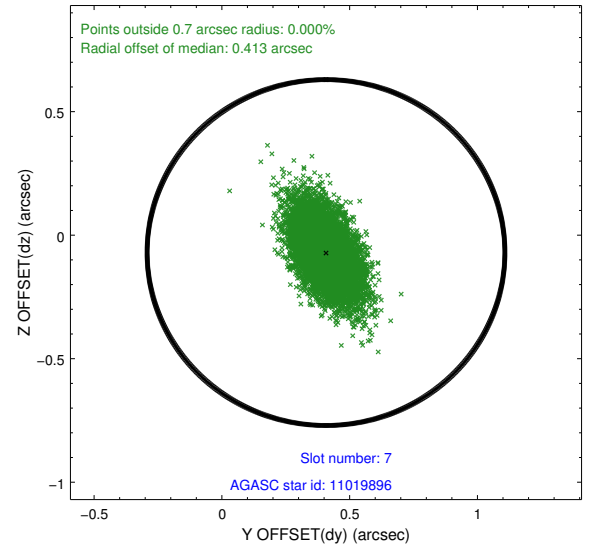
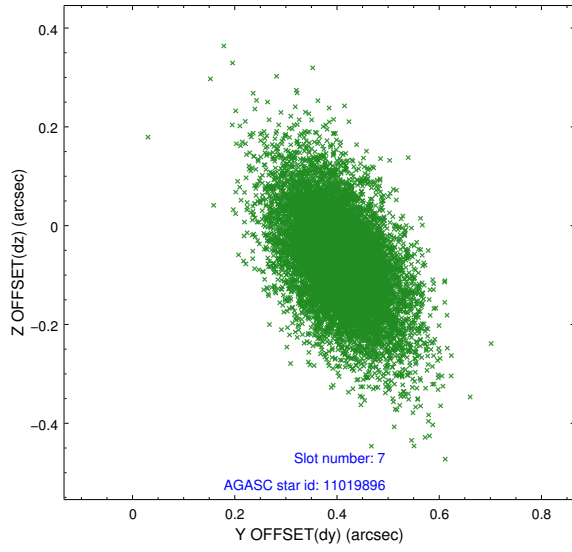
2.4.3 Slot 5



2.4.4 Slot 6

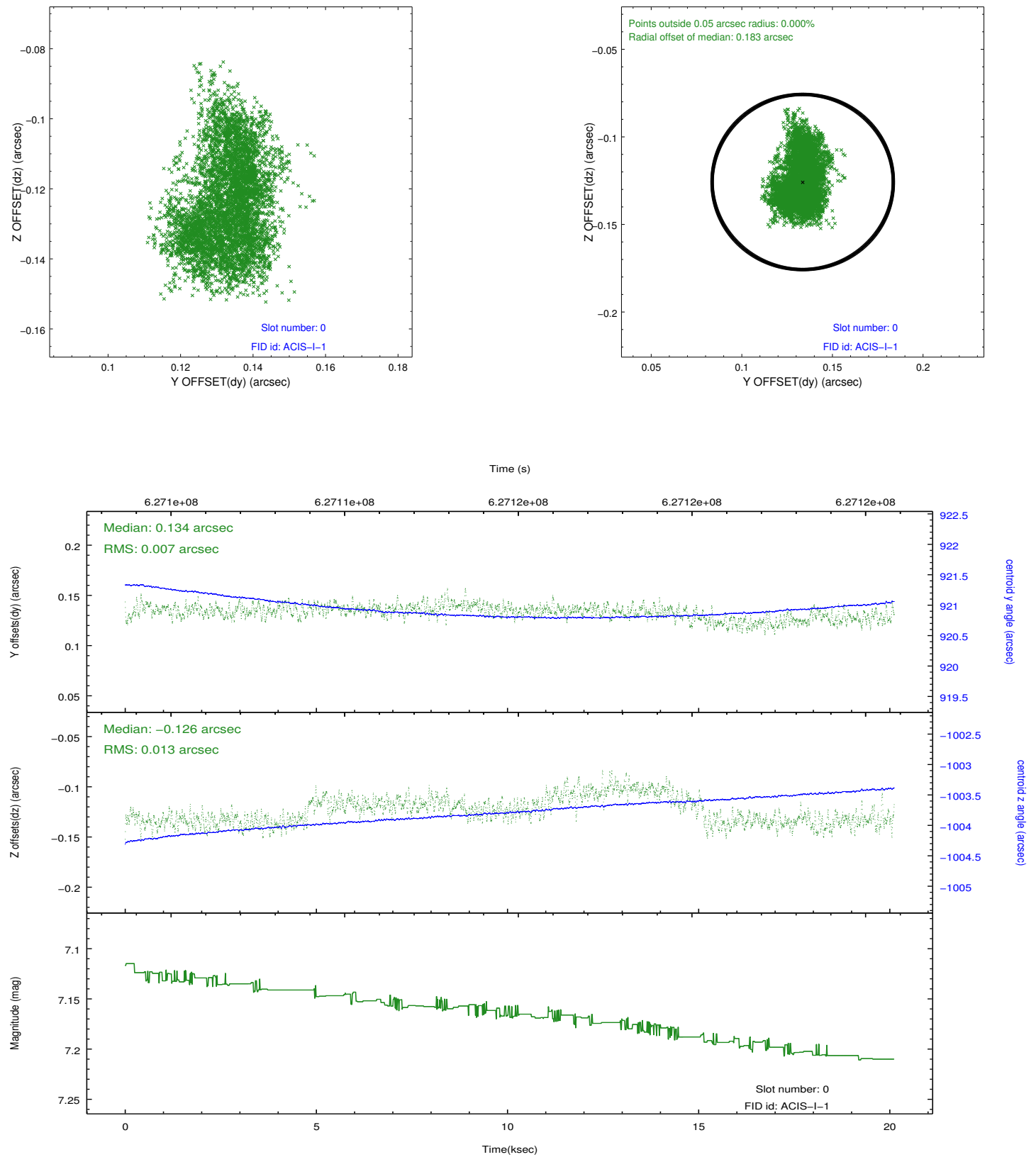


2.4.5 Slot 7

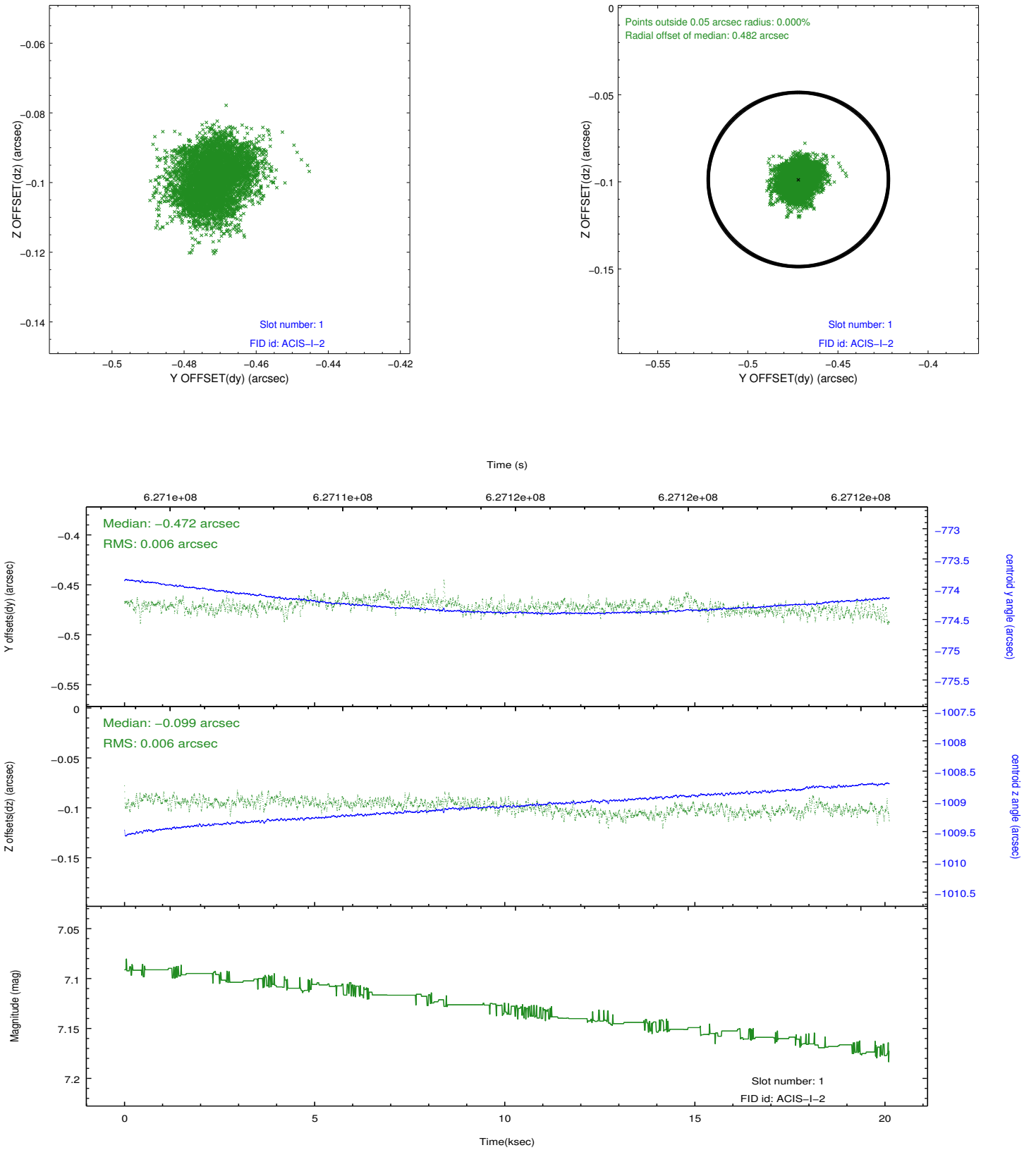


2.5 FID Slots

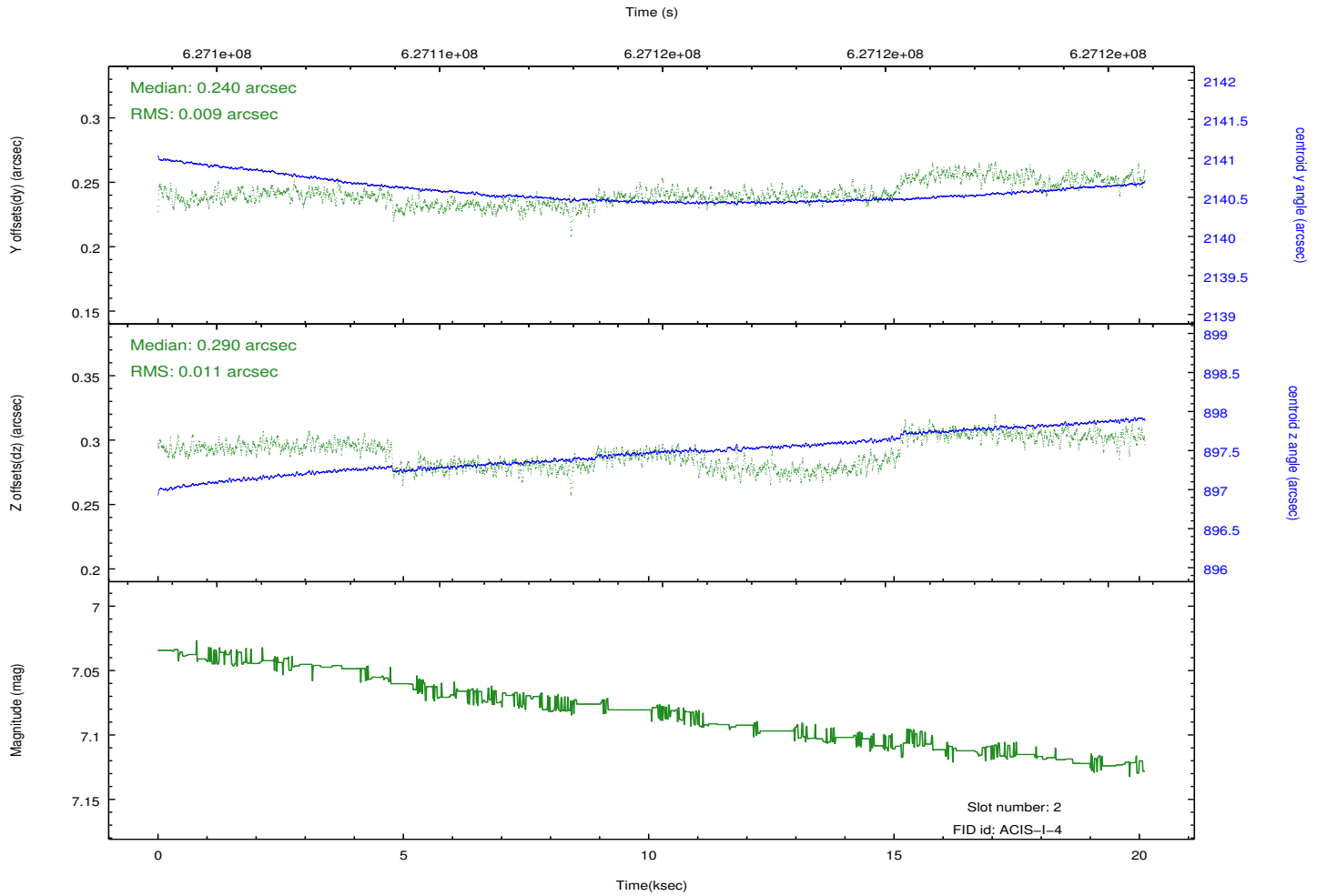
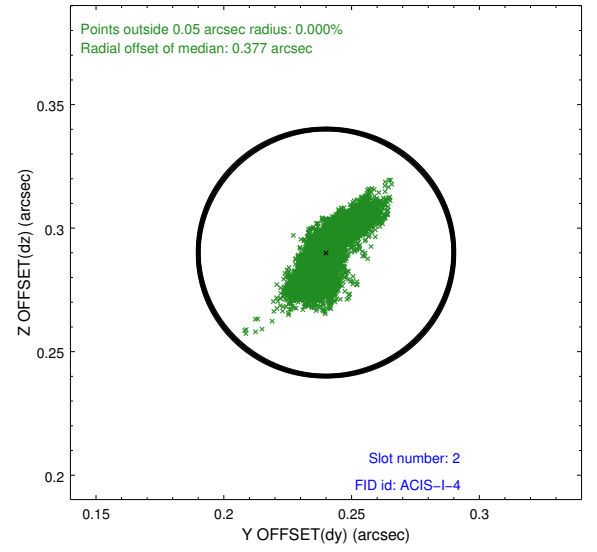
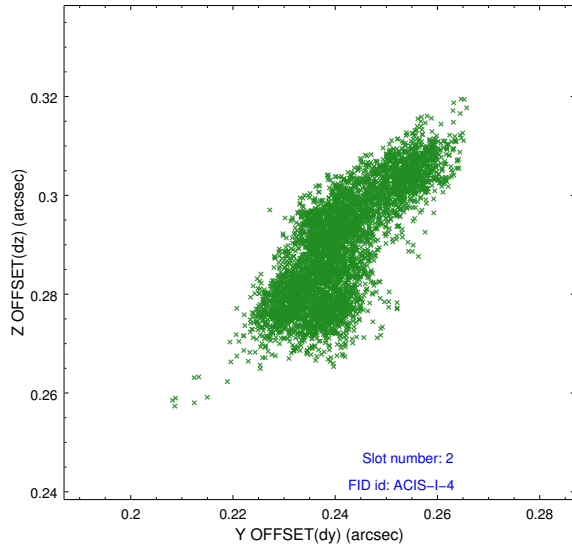
2.5.1 Slot 0



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)	2017.11.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.081800154567

A.2 Comments

One optional chip was dropped.