

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19378 - L2 Version 1
Chandra X-Ray Center

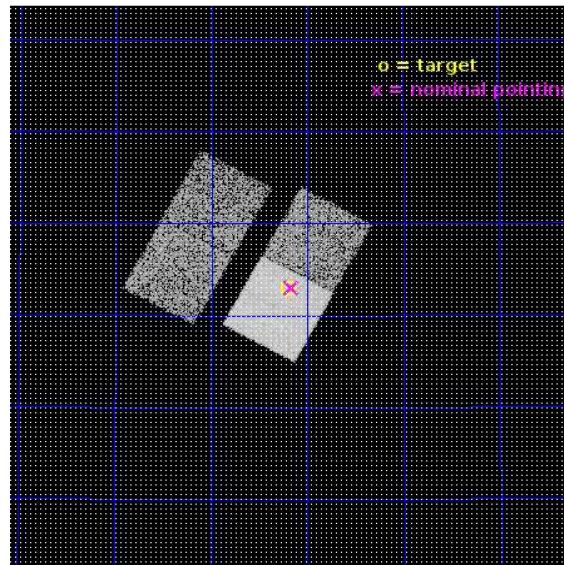
L2 Processing Date : Feb 8 2017

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1 Front

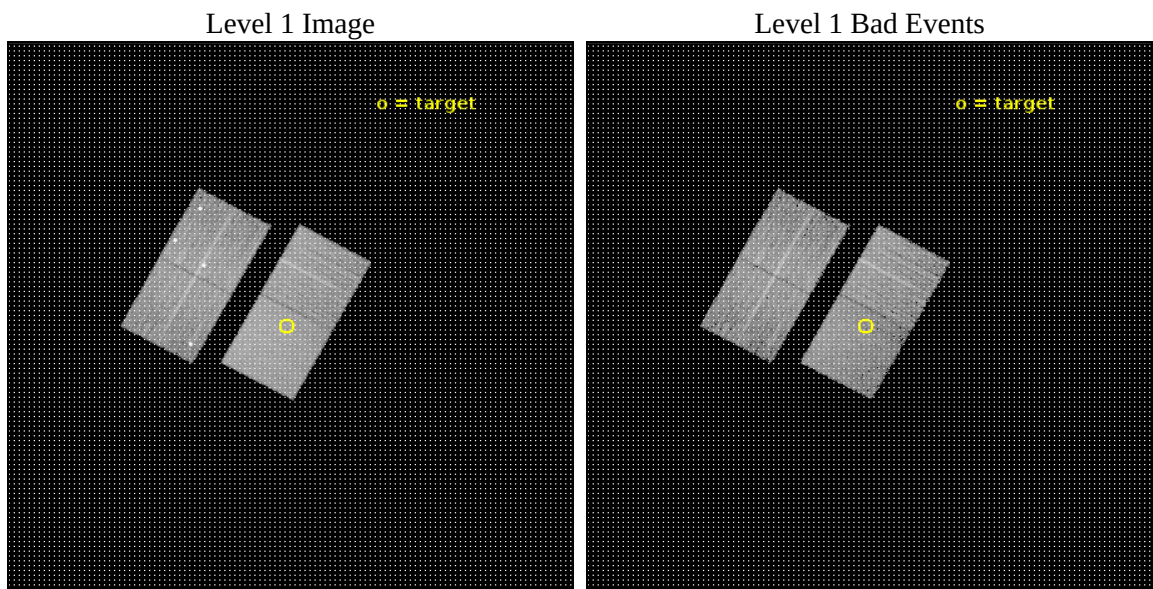
seq_num	601335	Sequence number
obs_id	19378	Observation id
title	A Statistically Complete High Resolution Chandra and Radio (eMERLIN) Survey of the Palomar Nearby Galaxies Sample	Proposal title
observer	Ian McHardy	Principal investigator
object	NGC 4220	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	184.04875	Observer's specified target RA [deg]
dec_targ	47.883361	Observer's specified target Dec [deg]
ra_nom	184.04169122412	Nominal RA [deg]
dec_nom	47.884013726325	Nominal Dec [deg]
roll_nom	118.59102807819	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9789.8000754118	Sum of GTIs [s]
livetime	9661.8891302806	Livetime [s]
ontime2	9786.6590752602	Sum of GTIs [s]
ontime3	9789.8000754118	Sum of GTIs [s]
ontime6	9789.8000754118	Sum of GTIs [s]
ontime7	9789.8000754118	Sum of GTIs [s]
l2events	57467	Number of level 2 events



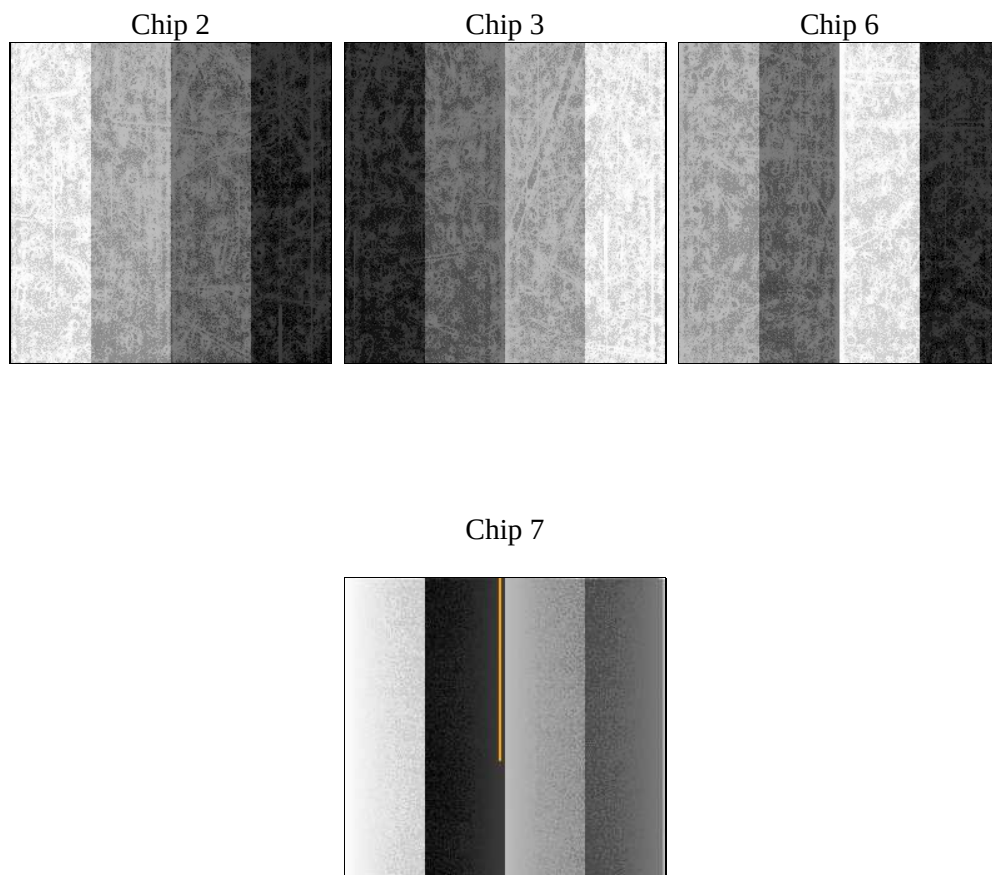
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	9789.8000754118	Sum of GTIs [s]
caldbver	4.7.3	 	ontime2	9786.6590752602	Sum of GTIs [s]
date	2017-02-08T13:50:58	Date and time of file creation	ontime3	9789.8000754118	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	9789.8000754118	Sum of GTIs [s]
			ontime7	9789.8000754118	Sum of GTIs [s]
			l1events	305758	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	78224	68013	70912	88609
rejected events	61898	57651	63066	49567
rejected %	79%	84%	88%	55%

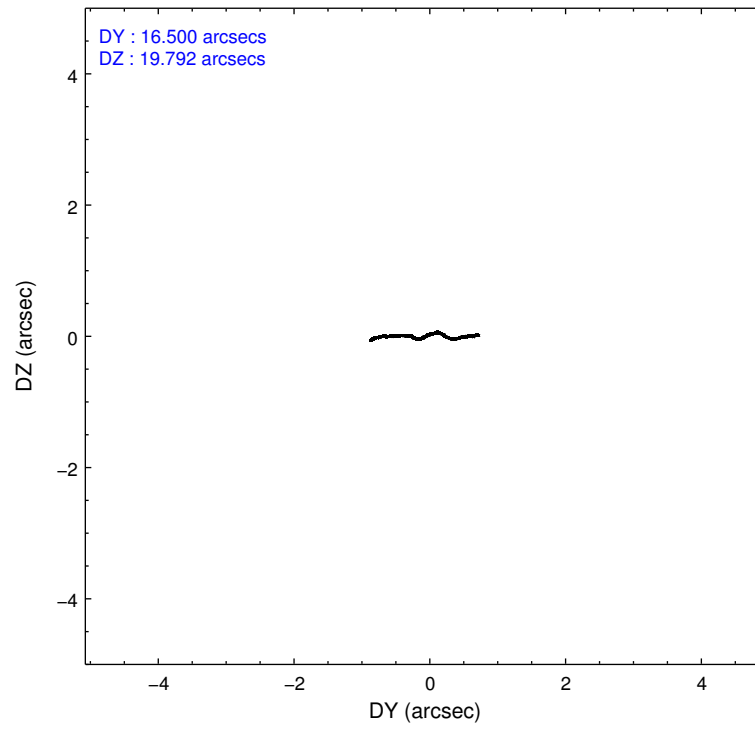
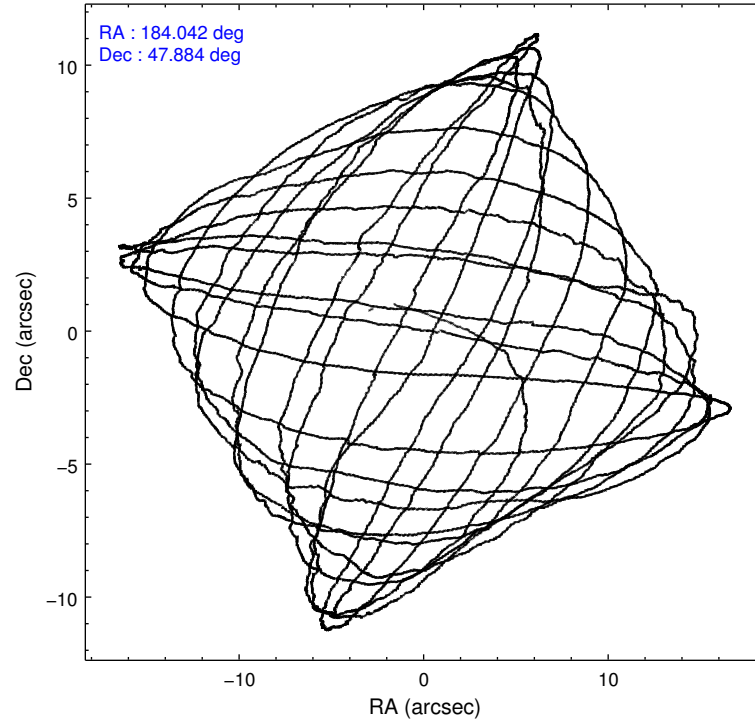
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	11464	5639	2577	3349
	14%	8%	3%	3%
grade 1 events	80	46	38	122
	0%	0%	0%	0%
grade 2 events	1897	1603	1775	8321
	2%	2%	2%	9%
grade 3 events	785	763	810	3232
	1%	1%	1%	3%
grade 4 events	765	782	815	3169
	0%	1%	1%	3%
grade 5 events	2671	3269	3290	8881
	3%	4%	4%	10%
grade 6 events	1421	1576	1870	20984
	1%	2%	2%	23%
grade 7 events	59141	54335	59737	40551
	75%	79%	84%	45%

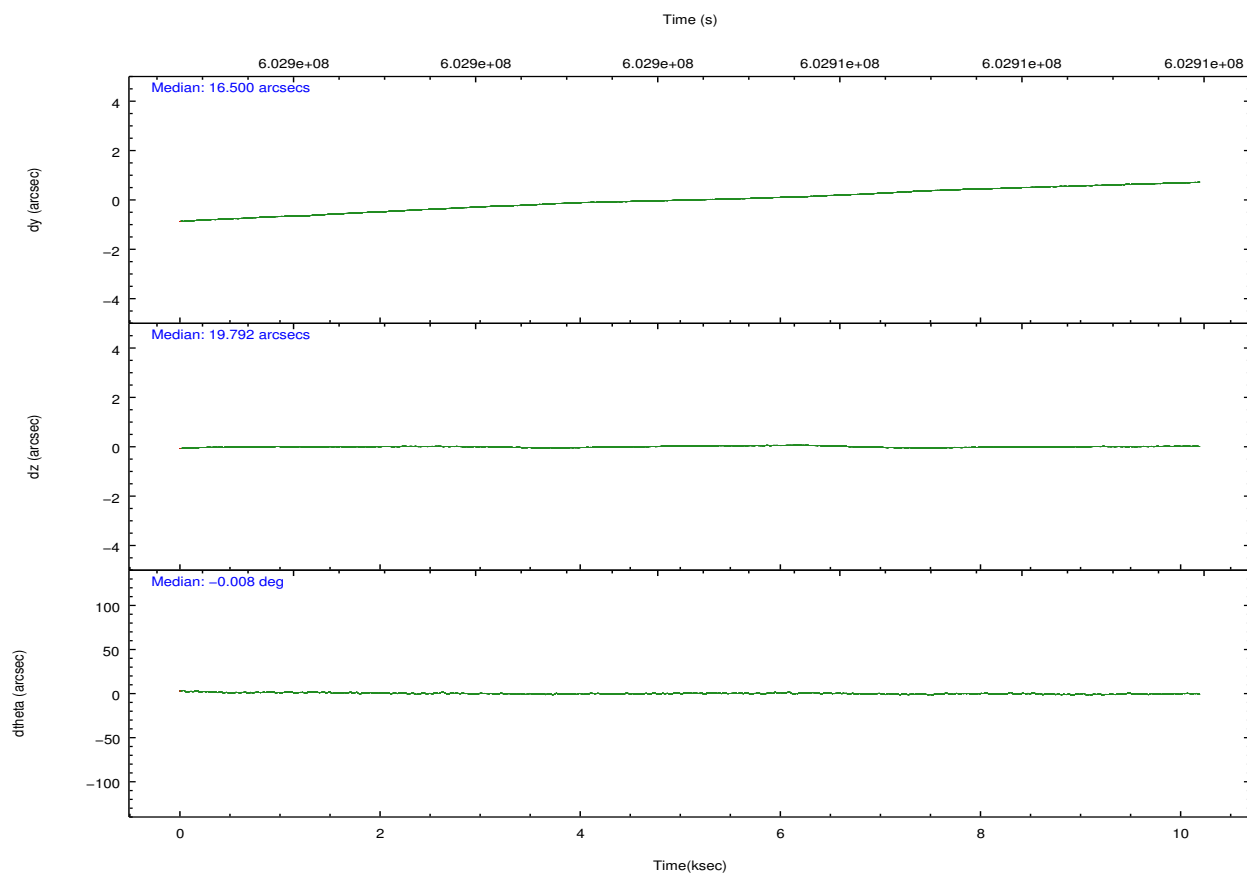
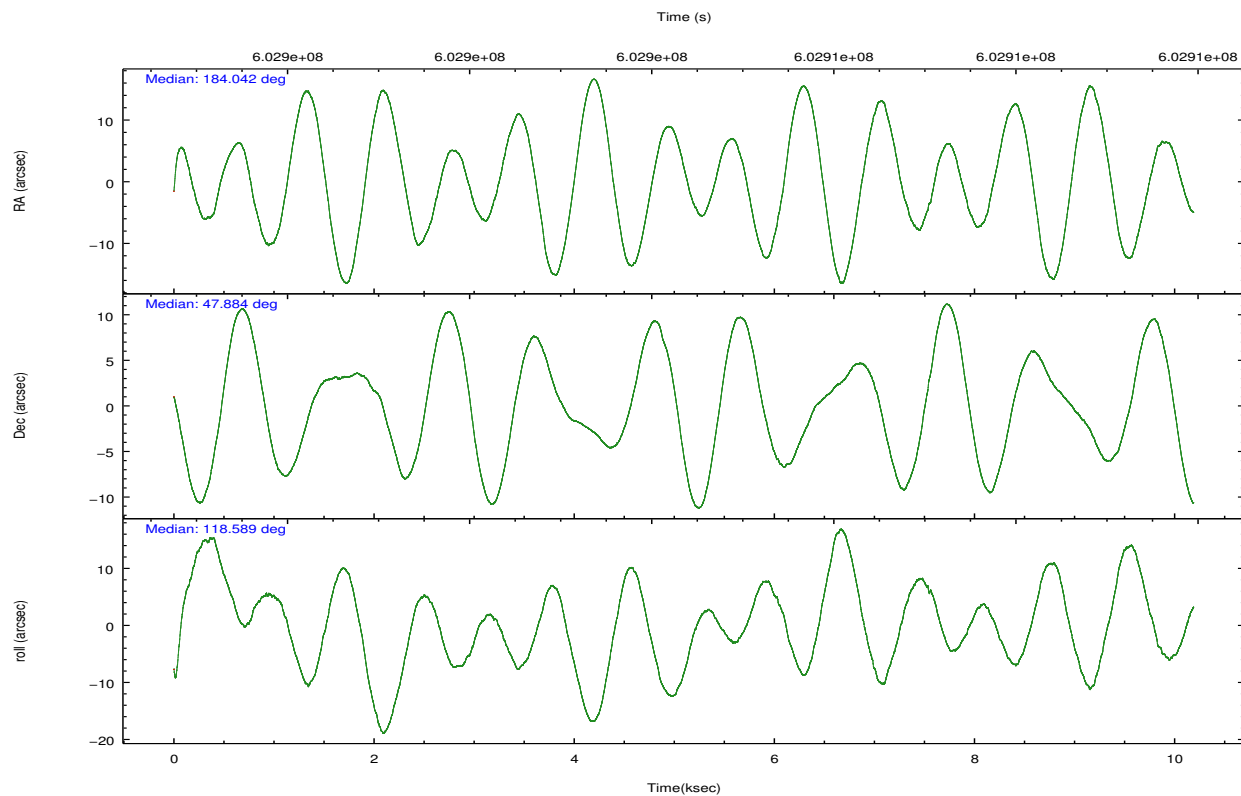
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-2367	ACIS-2367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	184.076915	184.0416912241244
[deg] Pointing Dec	47.870047	47.88401372632533
[deg] Pointing Roll	118.408287	118.5910280781901
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	602899471.184000	602898568.12844
Observation start date	2017-02-08T00:03:22	2017-02-07T23:49:28
[s] Observation end time (MET)	602909471.184000	602910132.1791101
Observation end date	2017-02-08T02:50:02	2017-02-08T03:02:12
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



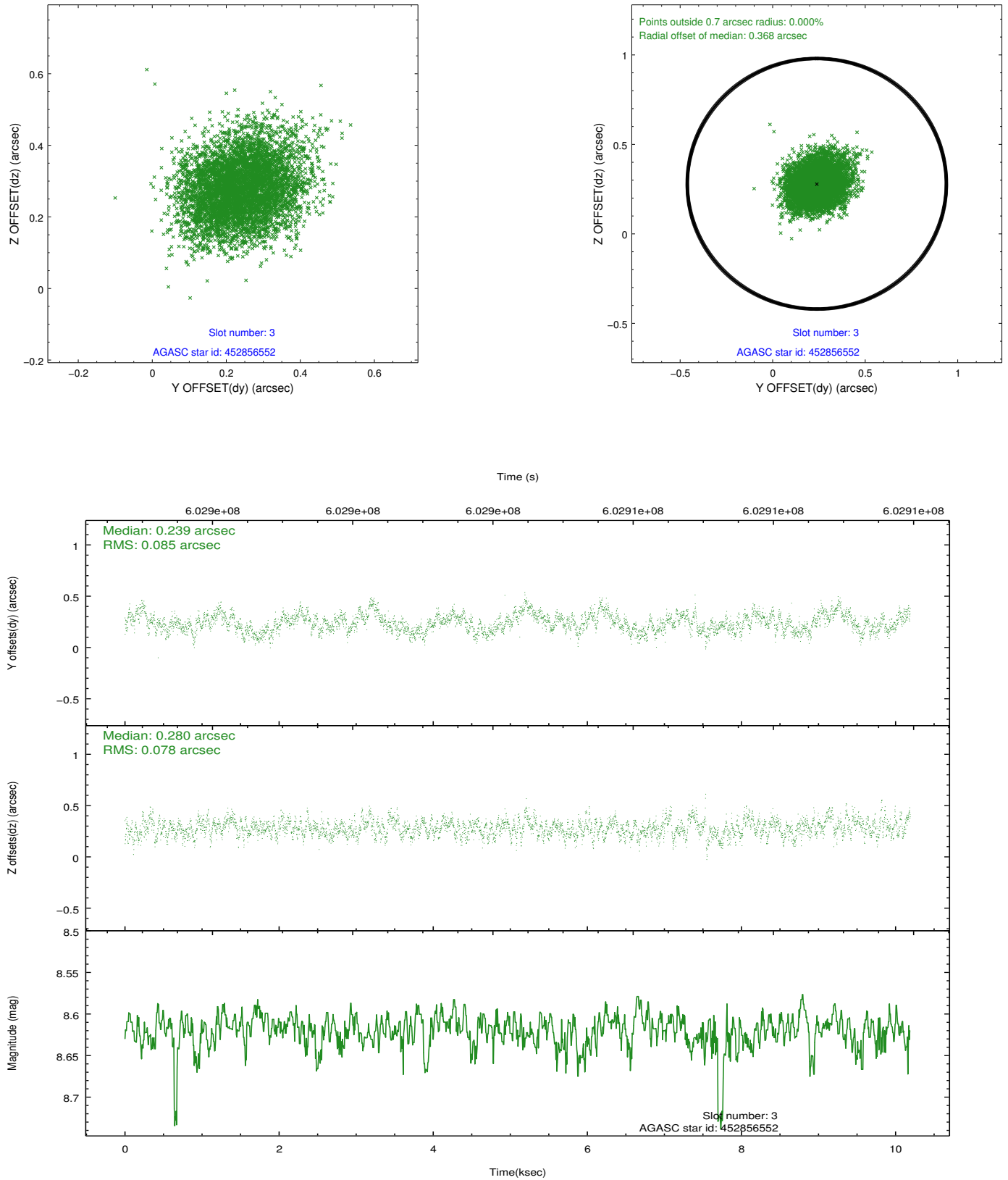


Slot Statistics

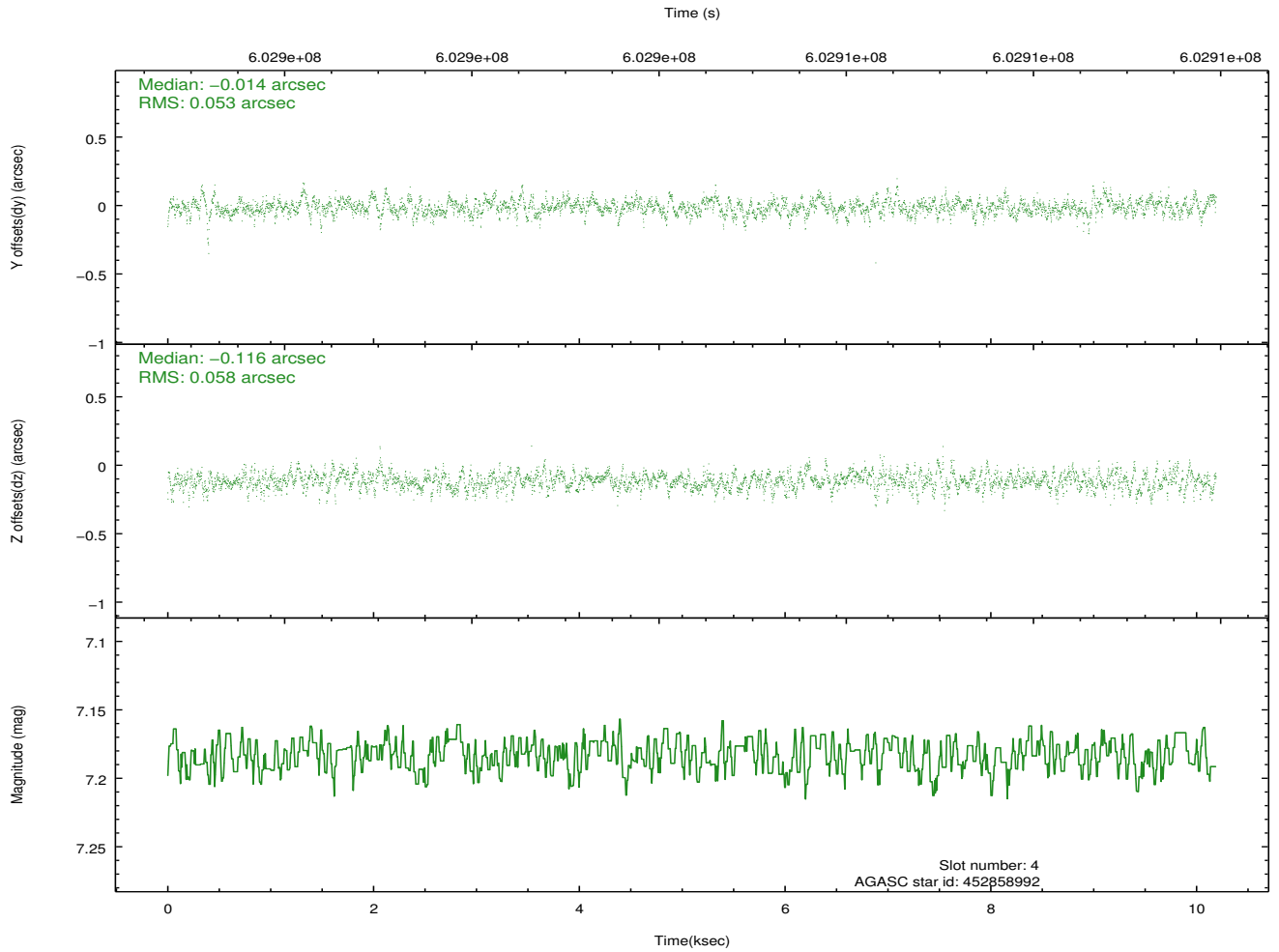
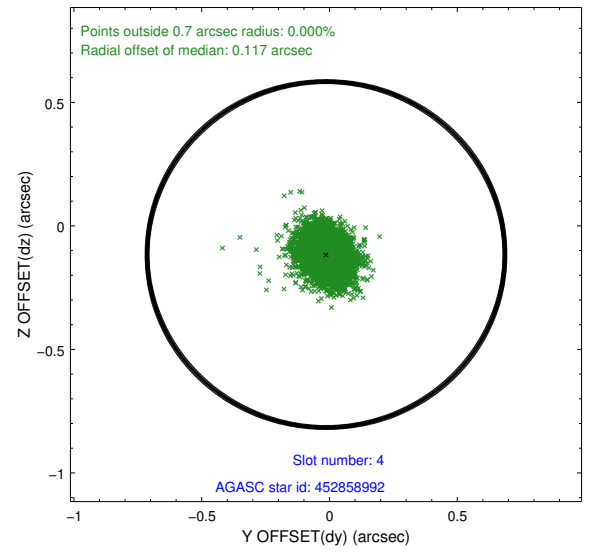
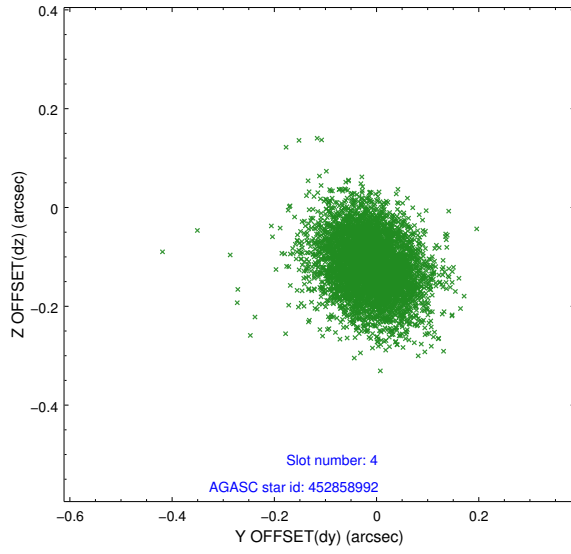
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.08	2486	0.112	-0.060	0.021	0.033	0.000000	0.000000	926.73	-1736.95
1	FID		ACIS-S-5	7.11	2486	-0.260	0.052	0.015	0.024	0.000000	0.000000	-1822.44	160.06
2	FID		ACIS-S-6	7.24	2486	0.127	0.017	0.011	0.019	0.000000	0.000000	391.63	804.67
3	GUIDE	used	452856552	8.62	4969	0.239	0.280	0.123	0.198	184.964211	47.802867	-1222.38	-1777.48
4	GUIDE	used	452858992	7.18	4972	-0.014	-0.116	0.082	0.139	183.815161	47.115501	-2083.89	1855.61
5	GUIDE	used	452861200	9.45	4964	-0.396	-0.280	0.145	0.236	183.041435	48.145777	2070.19	1708.00
6	GUIDE	used	452859672	7.85	4971	-0.059	-0.136	0.093	0.169	183.661987	47.013592	-2225.22	2361.61
7	GUIDE	used	452859952	8.86	4964	0.231	0.247	0.099	0.169	183.979507	47.127047	-2239.43	1483.26

2.4 Star Slots

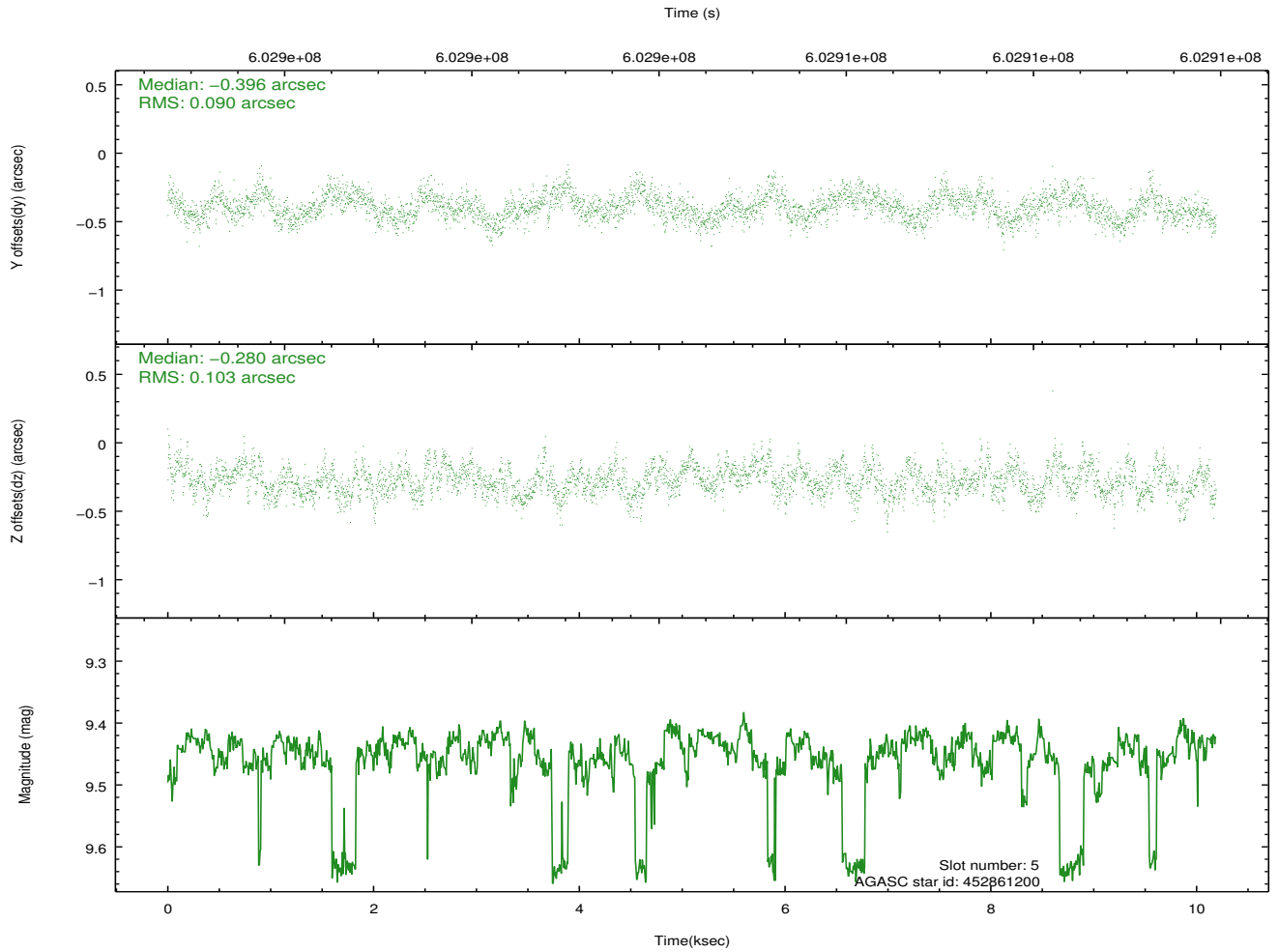
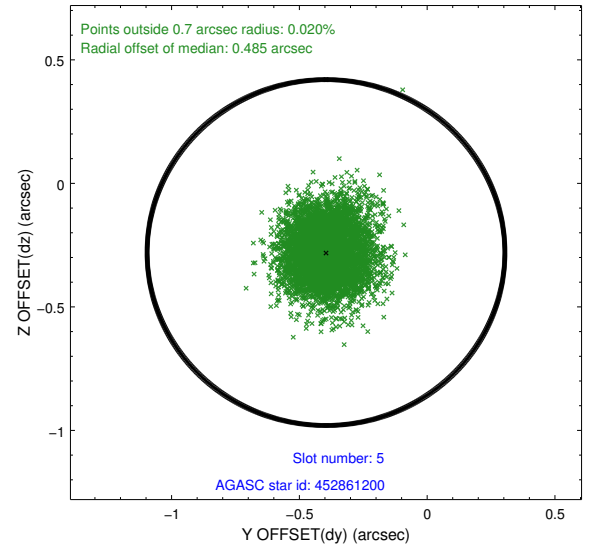
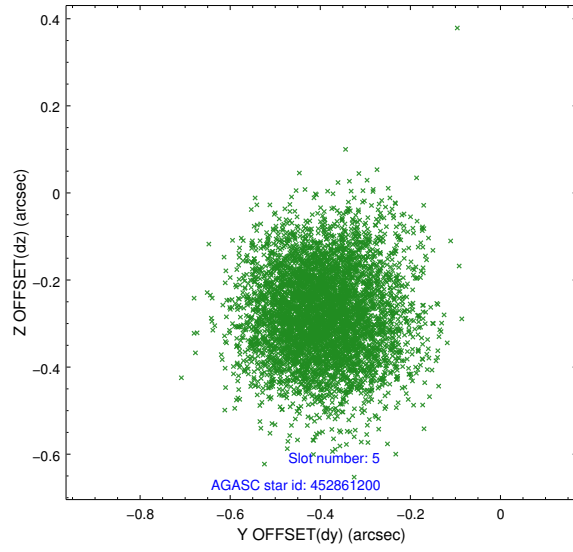
2.4.1 Slot 3



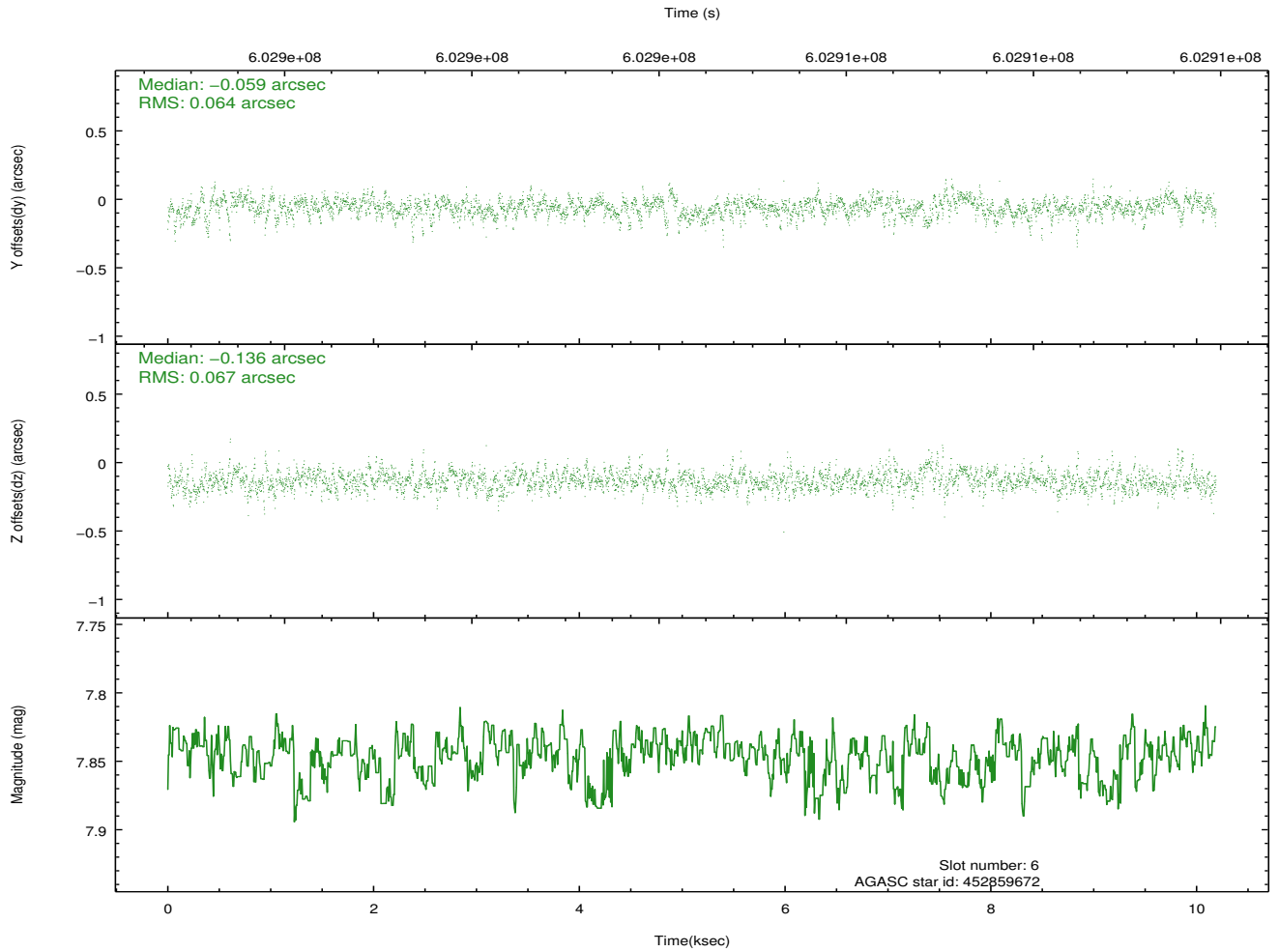
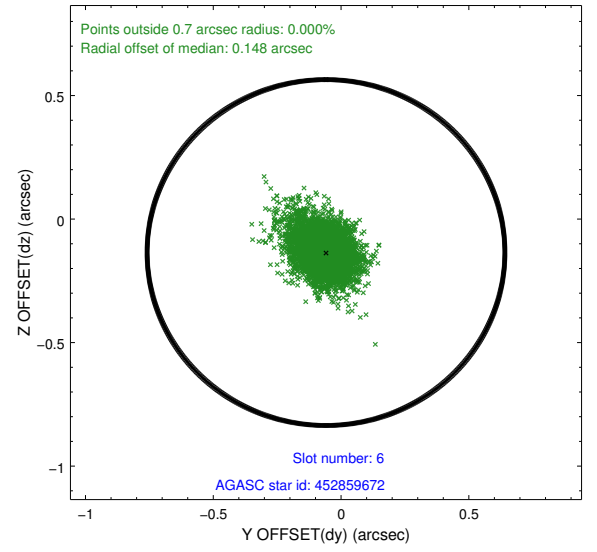
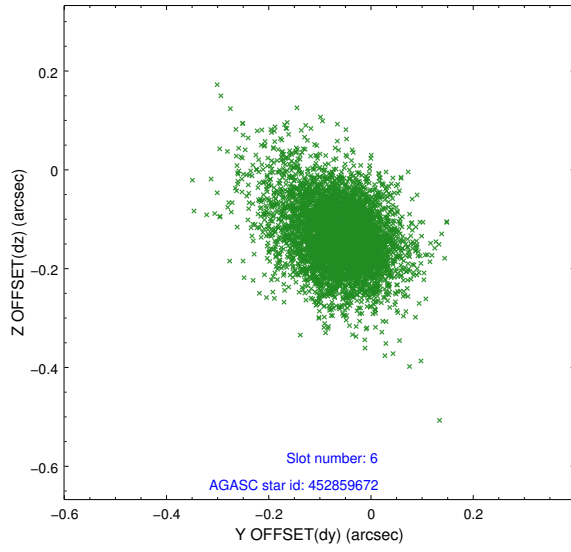
2.4.2 Slot 4



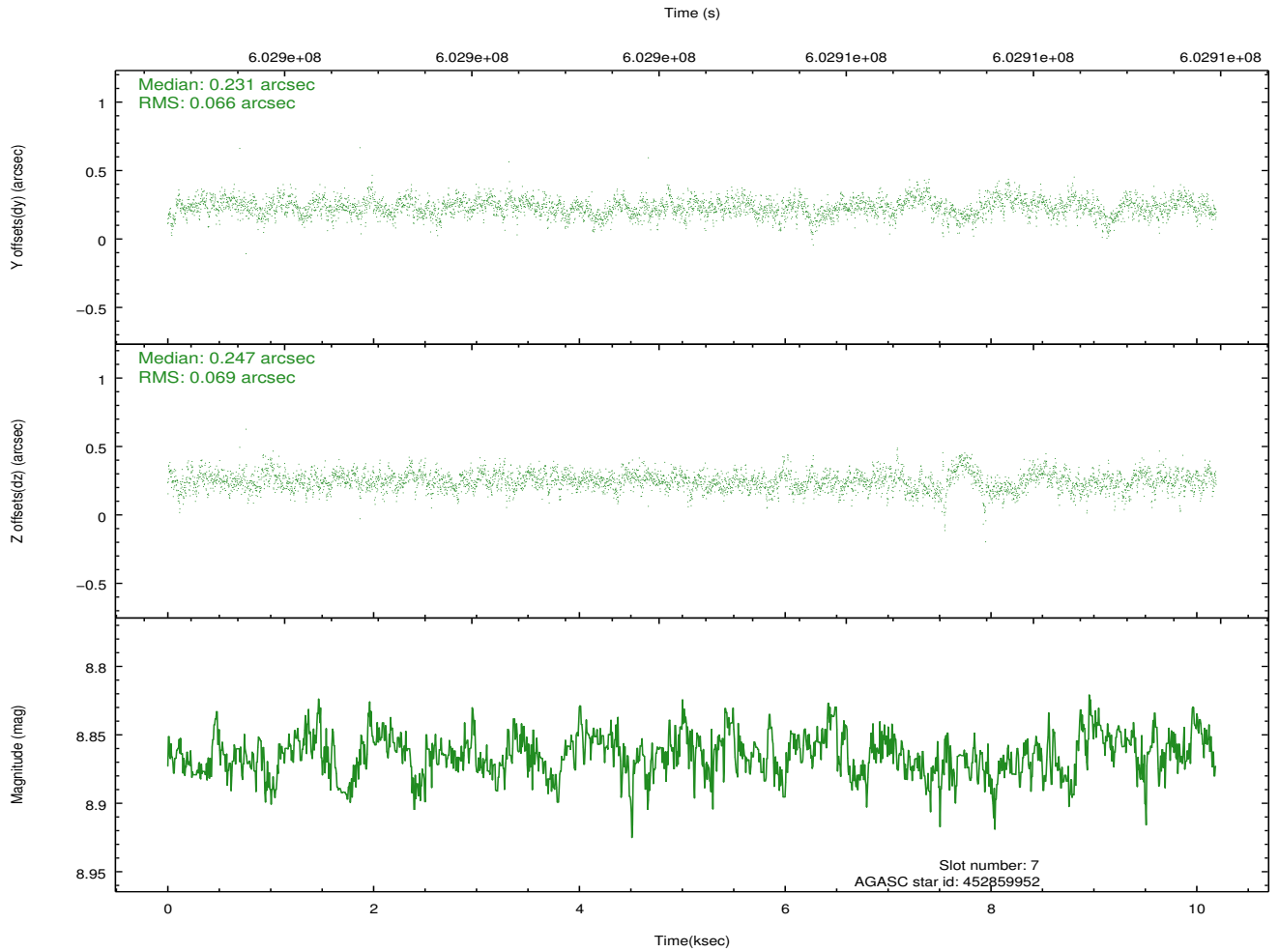
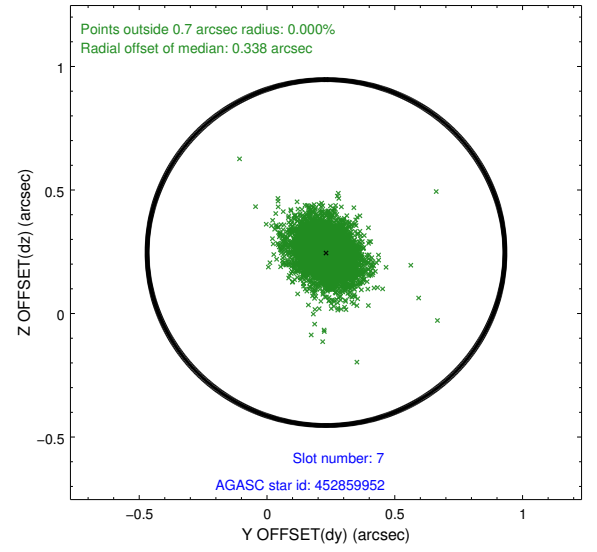
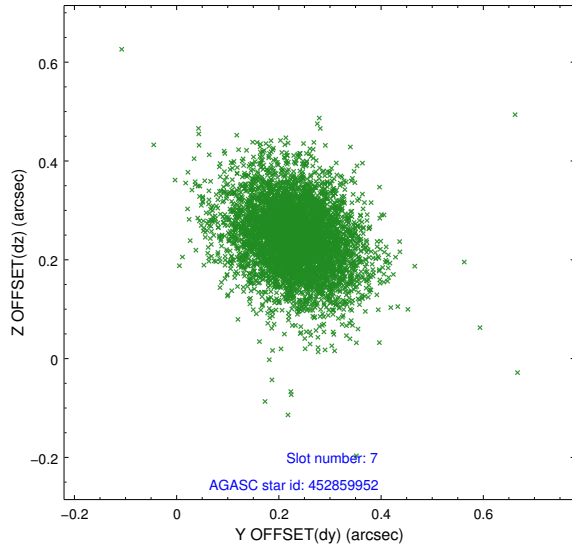
2.4.3 Slot 5



2.4.4 Slot 6

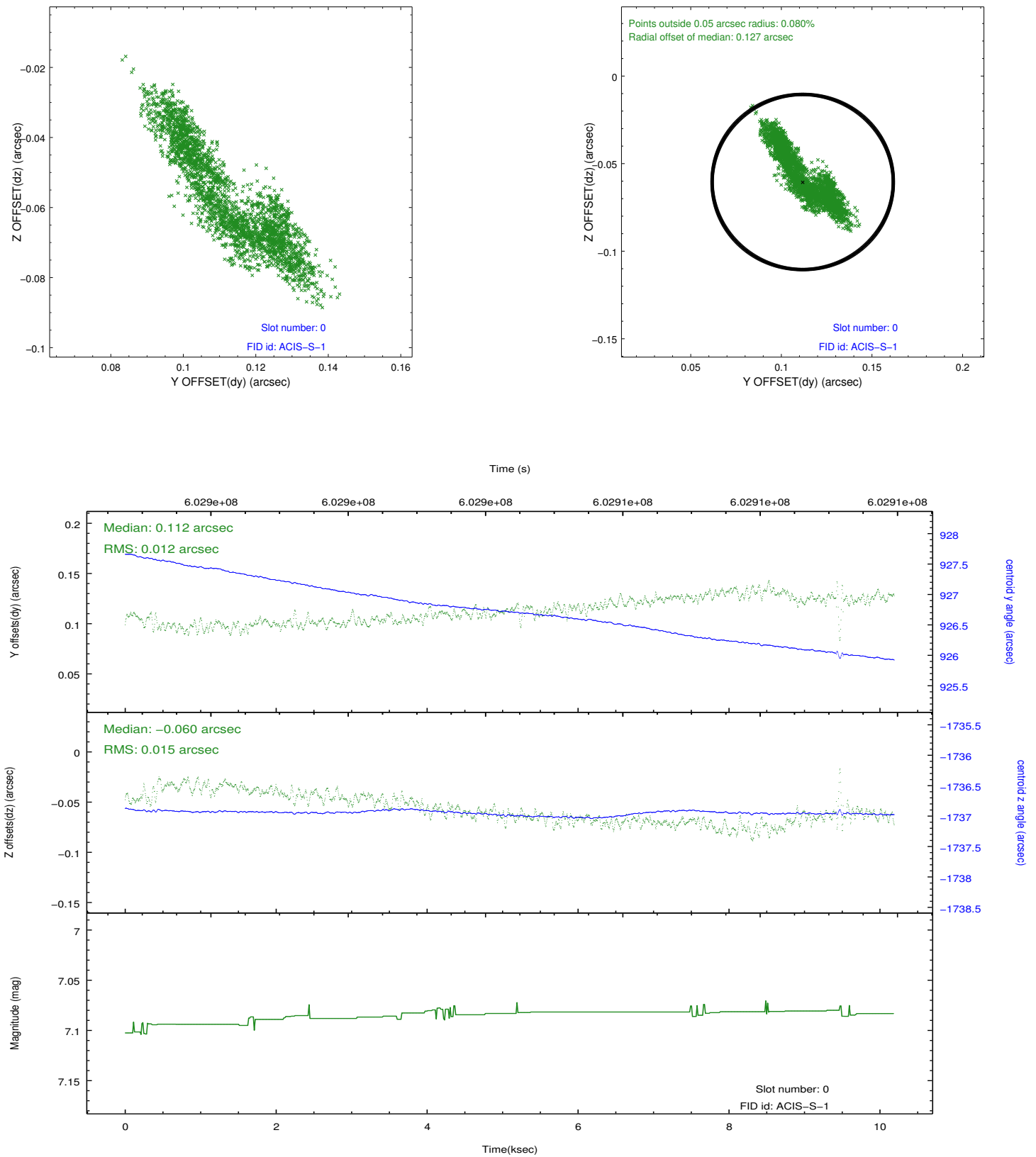


2.4.5 Slot 7

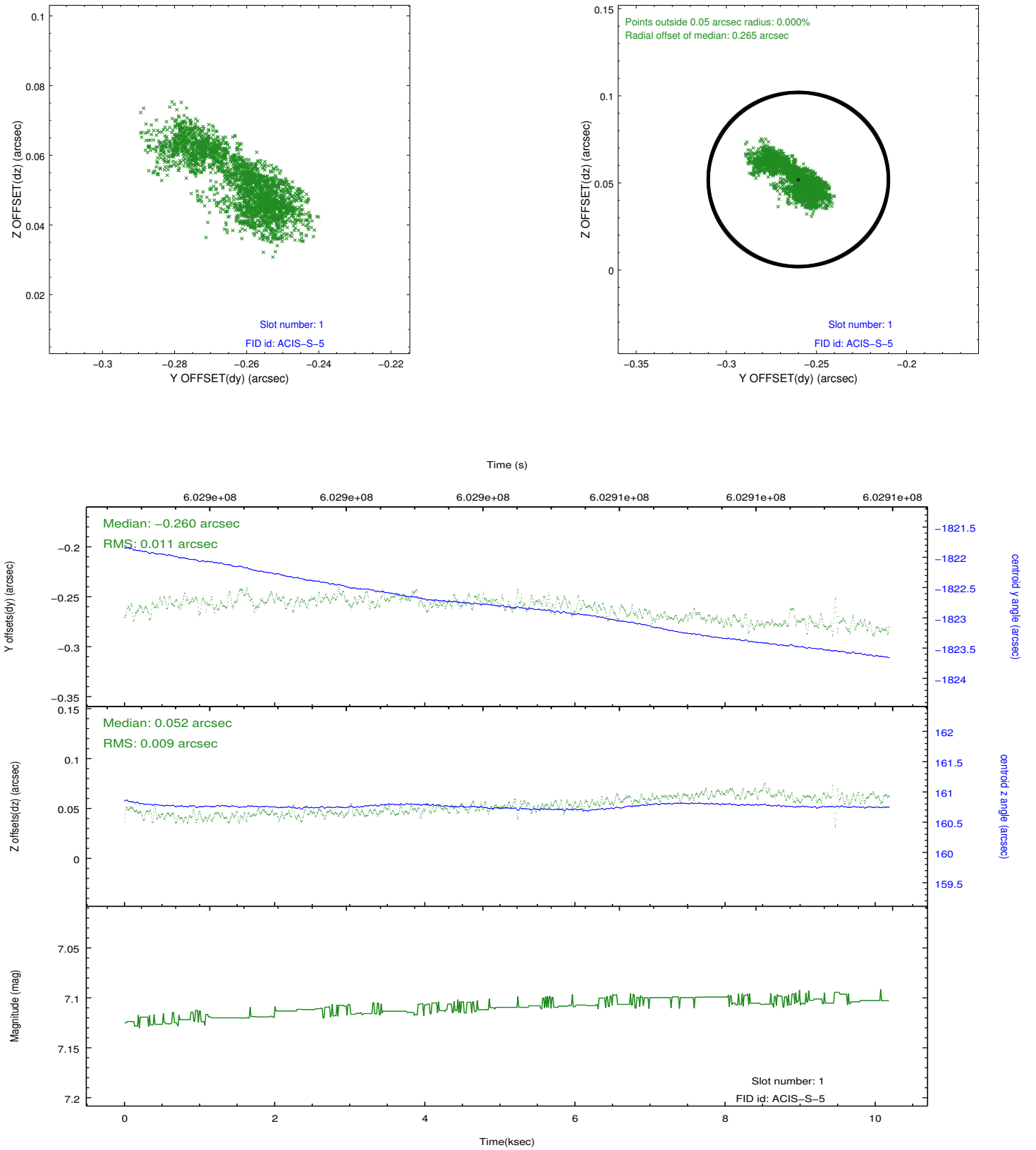


2.5 FID Slots

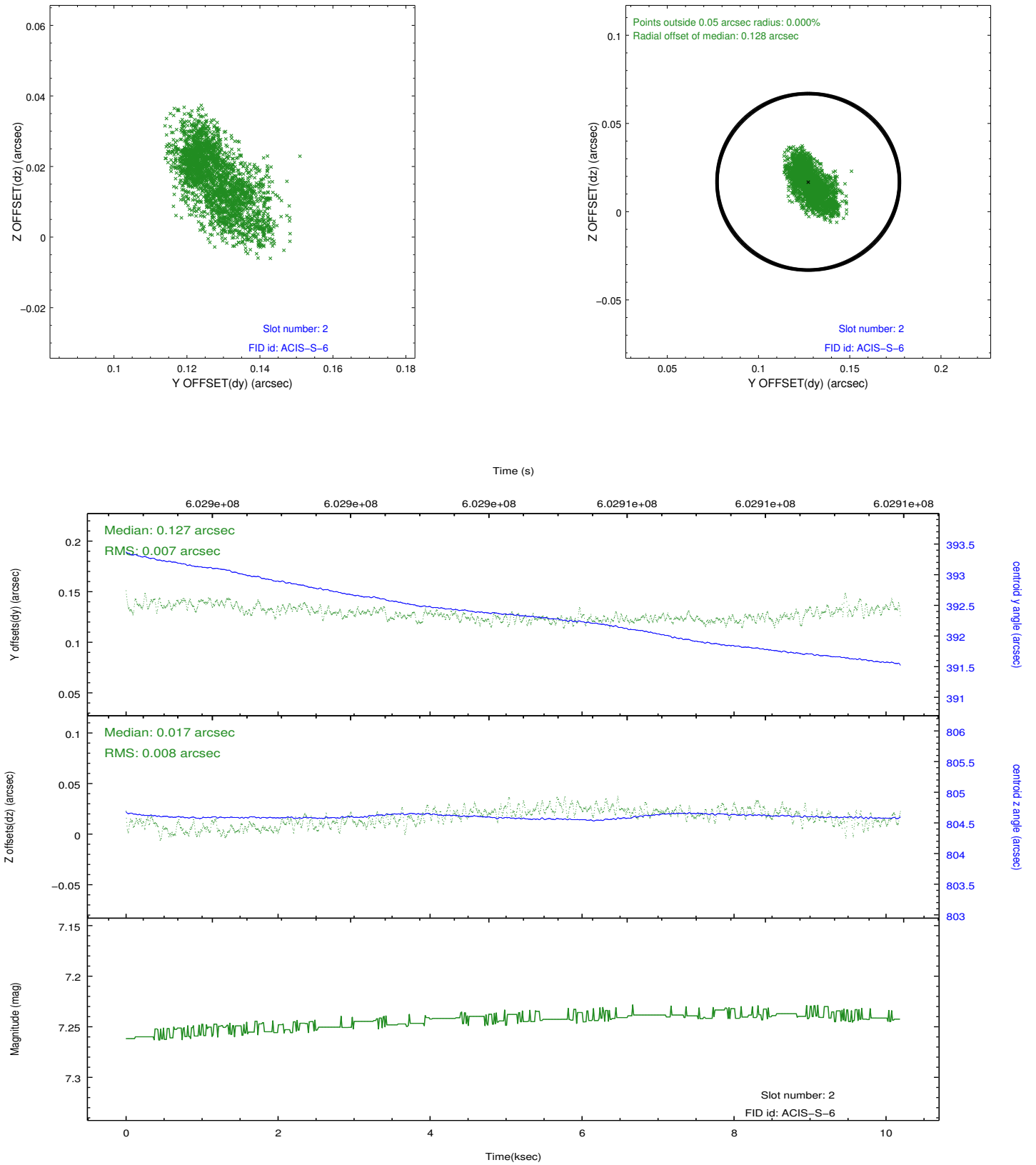
2.5.1 Slot 0



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)	2017.02.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.7898000754118

A.2 Comments