

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19349 - L2 Version 1
Chandra X-Ray Center

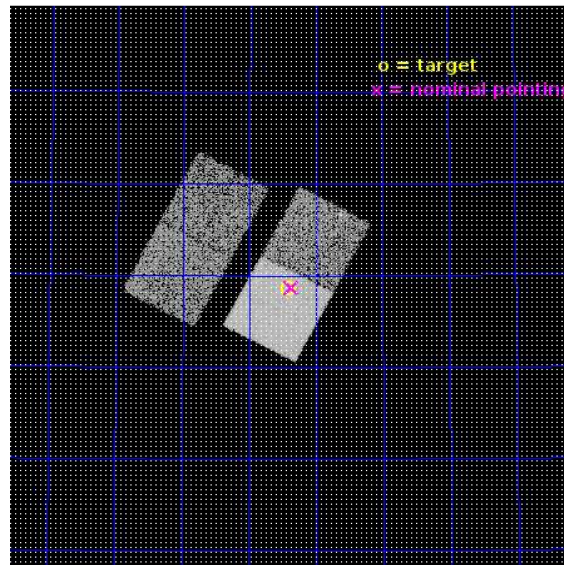
L2 Processing Date : Mar 19 2017

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1 Front

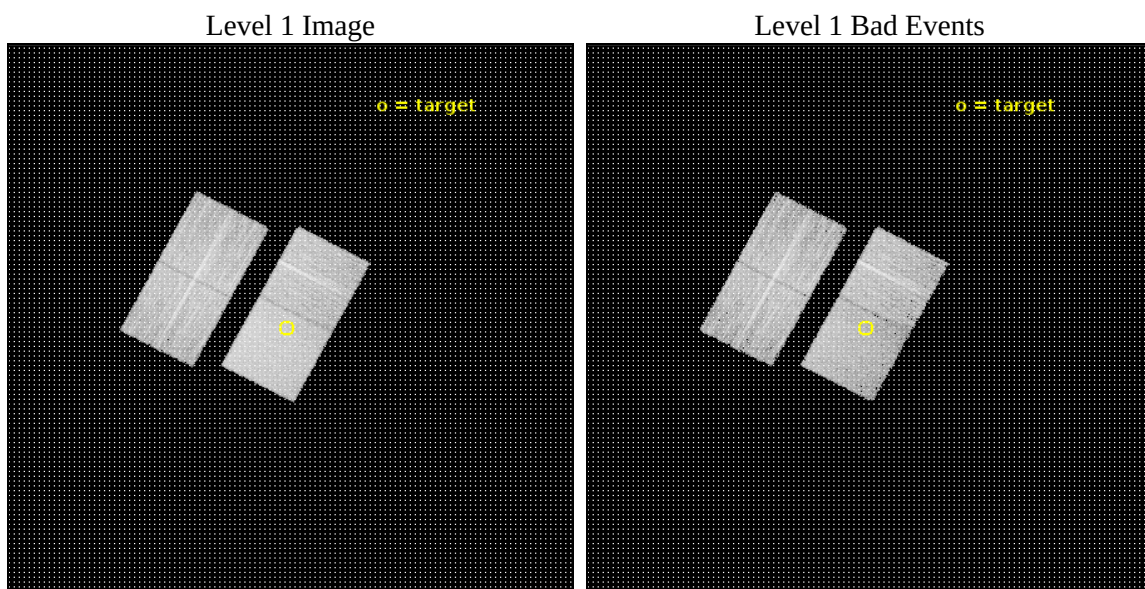
seq_num	601306	Sequence number
obs_id	19349	Observation id
title	A Statistically Complete High Resolution Chandra and Radio (eMERLIN) Survey of the Palomar Nearby Galaxies Sample	Proposal title
observer	Ian McHardy	Principal investigator
object	NGC 6015	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	237.855	Observer's specified target RA [deg]
dec_targ	62.310028	Observer's specified target Dec [deg]
ra_nom	237.84237712293	Nominal RA [deg]
dec_nom	62.311630658636	Nominal Dec [deg]
roll_nom	117.81565527363	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10070.929342985	Sum of GTIs [s]
livetime	9939.3452370087	Livetime [s]
ontime2	10070.806223035	Sum of GTIs [s]
ontime3	10070.847262979	Sum of GTIs [s]
ontime6	10070.888303041	Sum of GTIs [s]
ontime7	10070.929342985	Sum of GTIs [s]
l2events	61487	Number of level 2 events



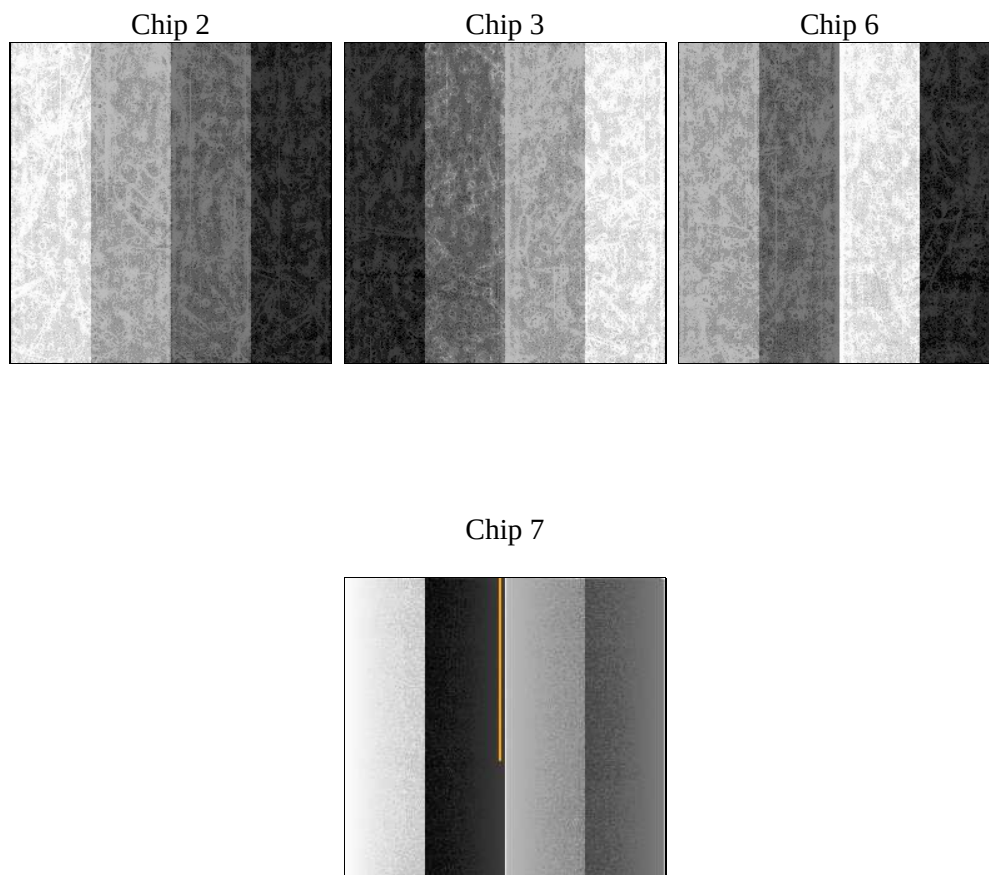
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	10070.929342985	Sum of GTIs [s]
caldbver	4.7.3	 	ontime2	10070.806223035	Sum of GTIs [s]
date	2017-03-19T21:16:40	Date and time of file creation	ontime3	10070.847262979	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	10070.888303041	Sum of GTIs [s]
			ontime7	10070.929342985	Sum of GTIs [s]
			l1events	313063	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	73087	71562	74557	93857
rejected events	65177	63603	66162	52120
rejected %	89%	88%	88%	55%

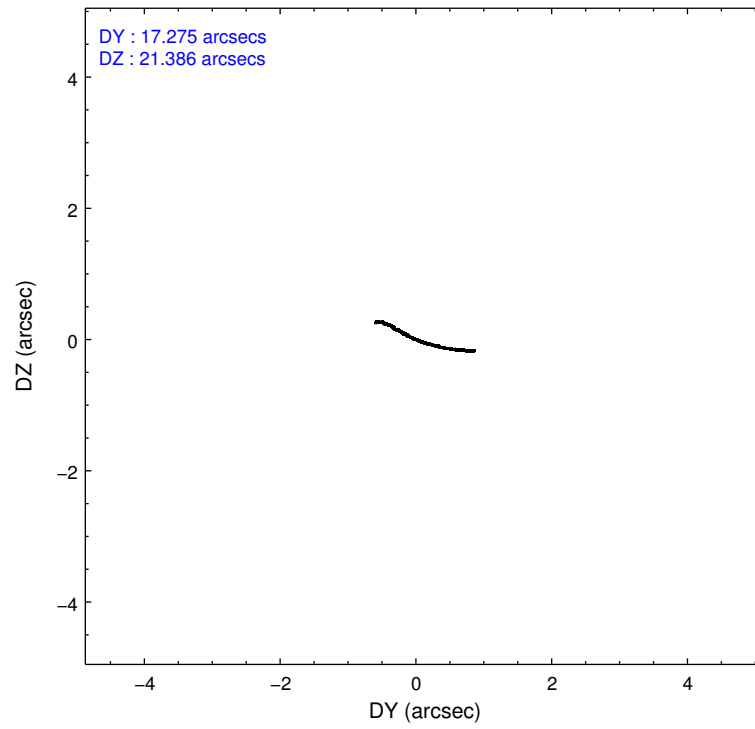
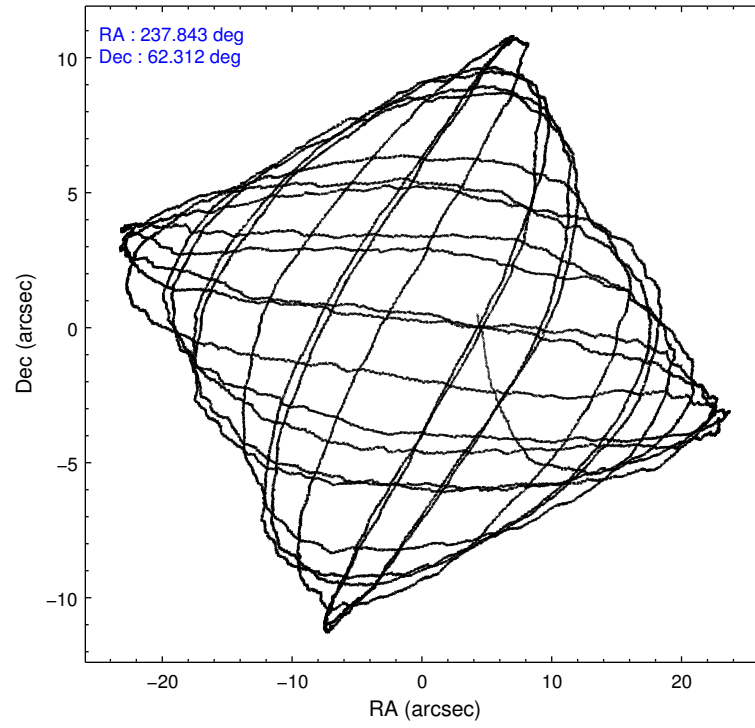
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2830	3011	2890	3789
	3%	4%	3%	4%
grade 1 events	46	48	36	129
	0%	0%	0%	0%
grade 2 events	1891	1748	1990	8888
	2%	2%	2%	9%
grade 3 events	798	764	822	3402
	1%	1%	1%	3%
grade 4 events	819	830	809	3431
	1%	1%	1%	3%
grade 5 events	2752	3439	3453	9637
	3%	4%	4%	10%
grade 6 events	1574	1609	1889	22255
	2%	2%	2%	23%
grade 7 events	62377	60113	62668	42326
	85%	84%	84%	45%

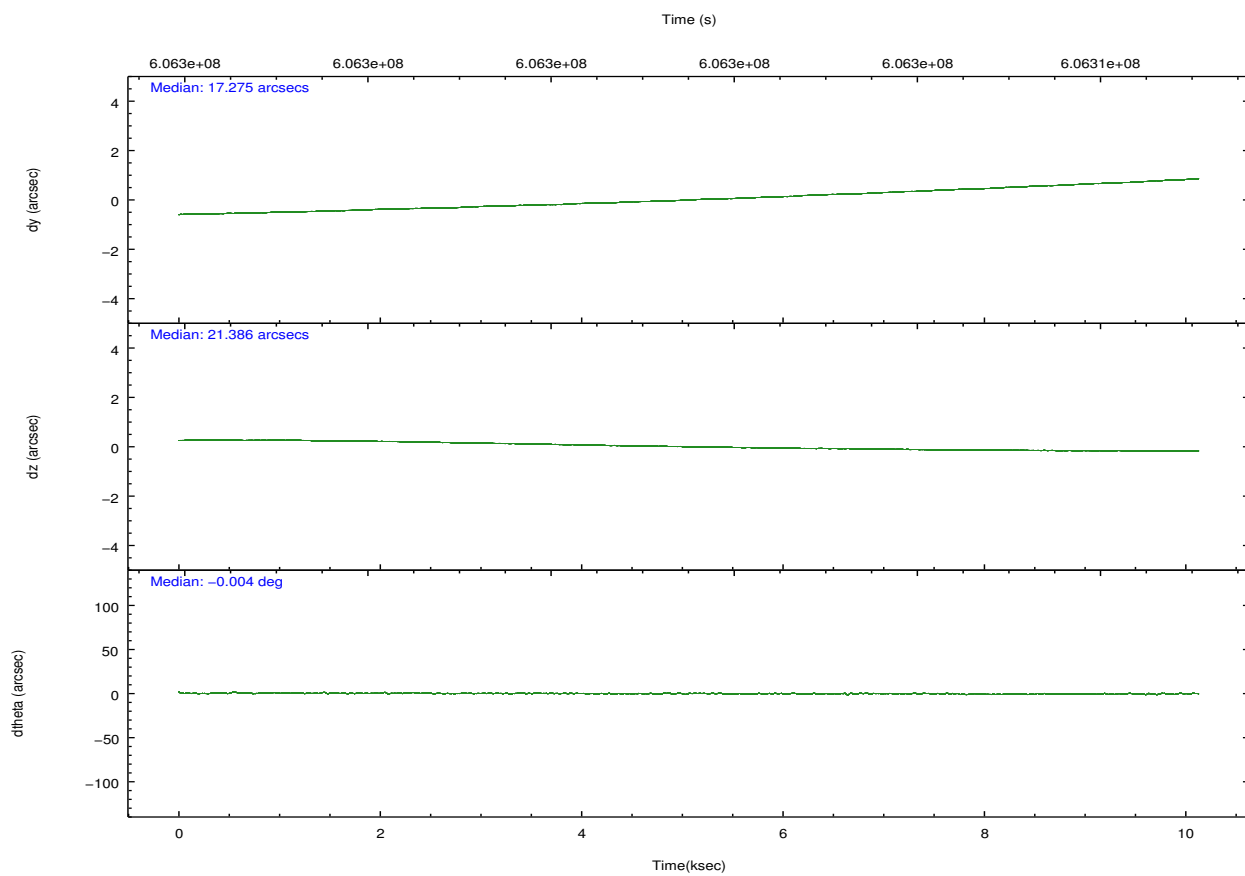
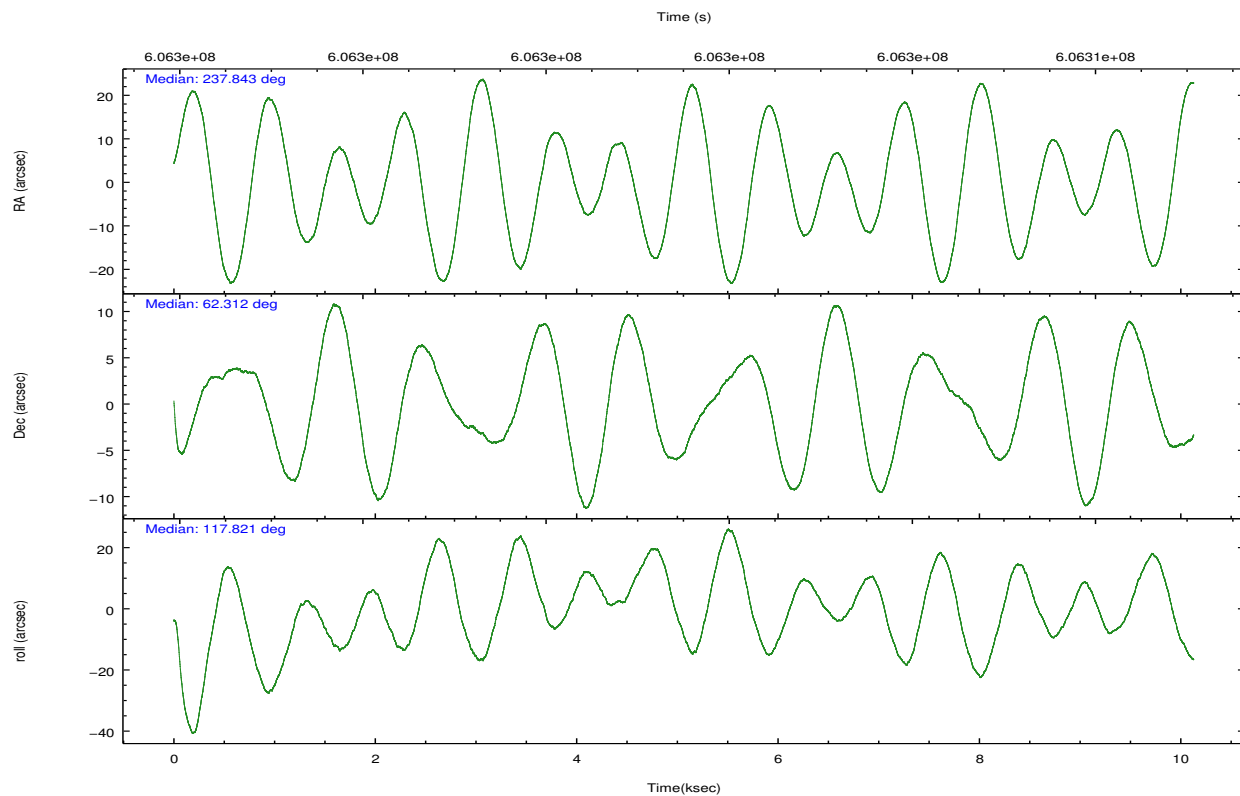
2.2 Compared Parameters

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	237.892696	237.8423771229309
[deg] Pointing Dec	62.297321	62.31163065863578
[deg] Pointing Roll	117.614453	117.8156552736286
[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)	606296571.184000	606294905.31286
Observation start date	2017-03-19T07:41:42	2017-03-19T07:15:05
[s] Observation end time (MET)	606306571.184000	606307217.1010799
Observation end date	2017-03-19T10:28:22	2017-03-19T10:40:17
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



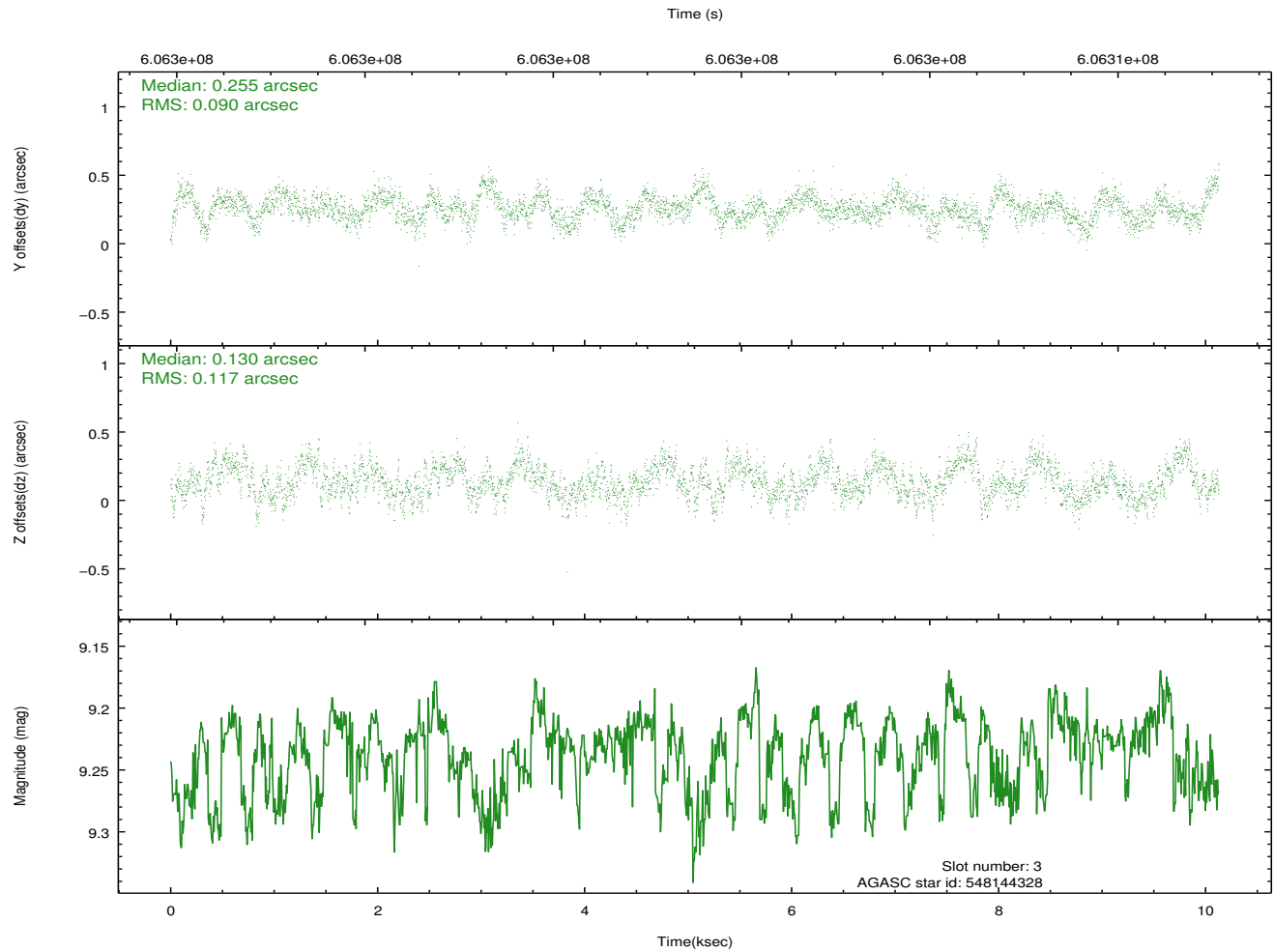
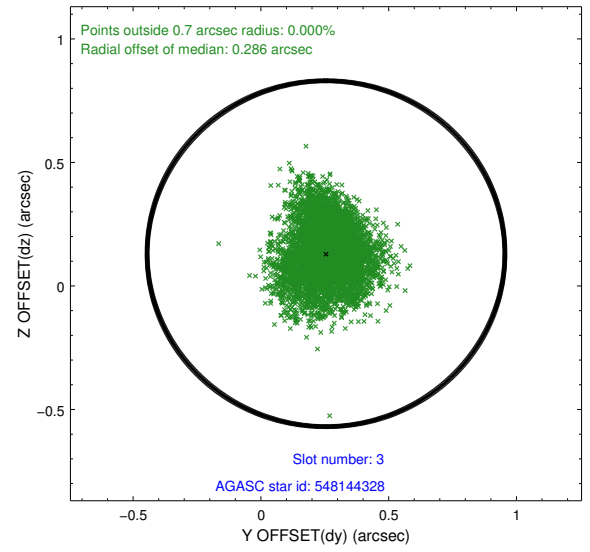
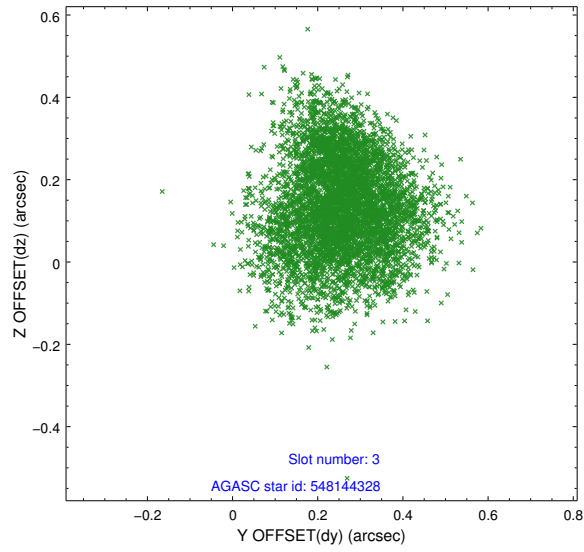


Slot Statistics

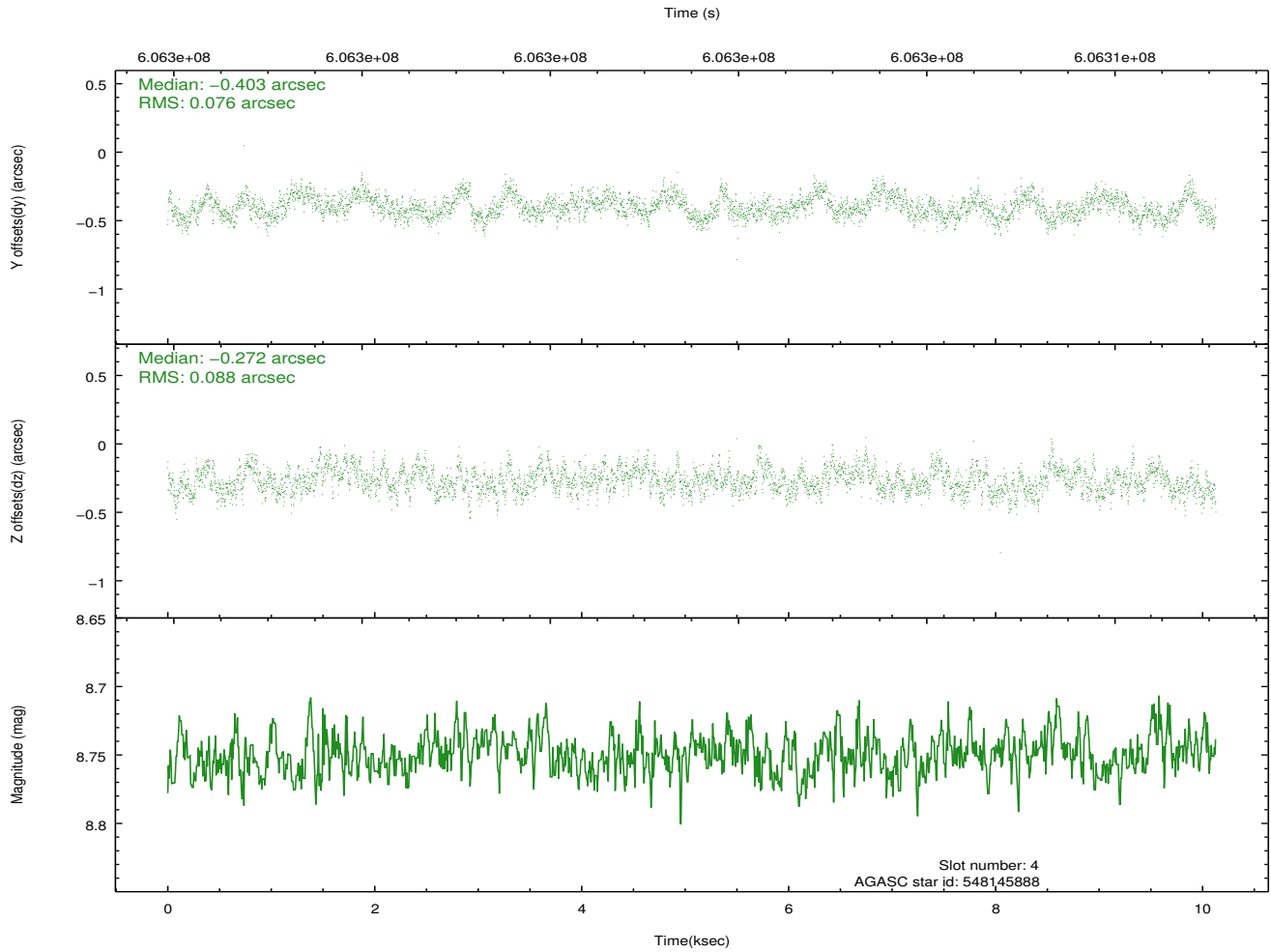
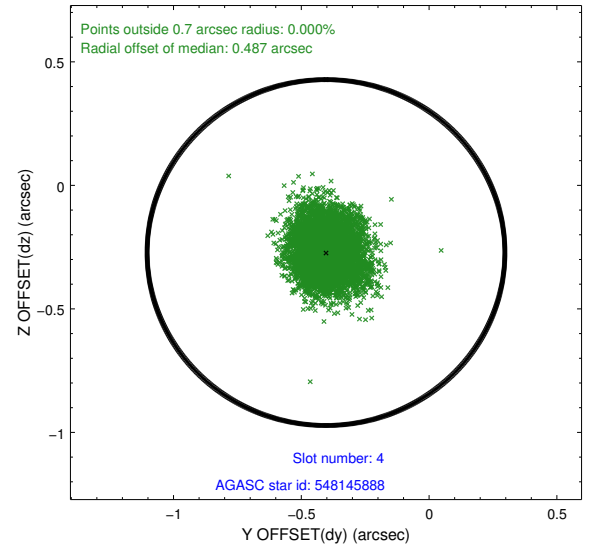
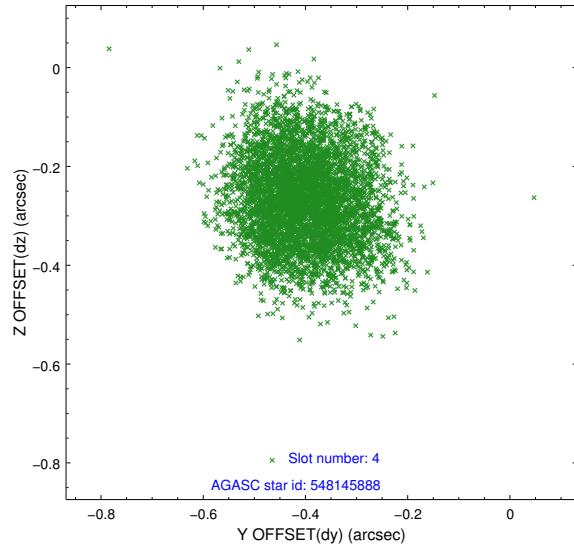
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.98	2471	-0.192	-0.095	0.009	0.016	0.000000	0.000000	-770.53	-1743.07
1	FID		ACIS-S-4	7.08	2471	0.450	0.118	0.019	0.033	0.000000	0.000000	2143.14	165.11
2	FID		ACIS-S-5	7.08	2471	-0.291	-0.015	0.016	0.025	0.000000	0.000000	-1822.81	159.21
3	GUIDE	used	548144328	9.24	4940	0.255	0.130	0.160	0.250	238.146367	62.317666	-130.54	-409.57
4	GUIDE	used	548145888	8.75	4937	-0.403	-0.272	0.125	0.197	237.124487	62.344352	752.44	1055.62
5	GUIDE	used	548154776	9.53	4936	0.243	0.282	0.176	0.287	238.846146	62.155141	-1186.53	-1187.45
6	GUIDE	used	548541328	9.13	4939	-0.427	-0.144	0.133	0.218	237.408583	62.671659	1567.23	82.91
7	GUIDE	used	548148728	9.54	4934	0.319	0.004	0.175	0.284	238.419841	61.686519	-2361.45	220.78

2.4 Star Slots

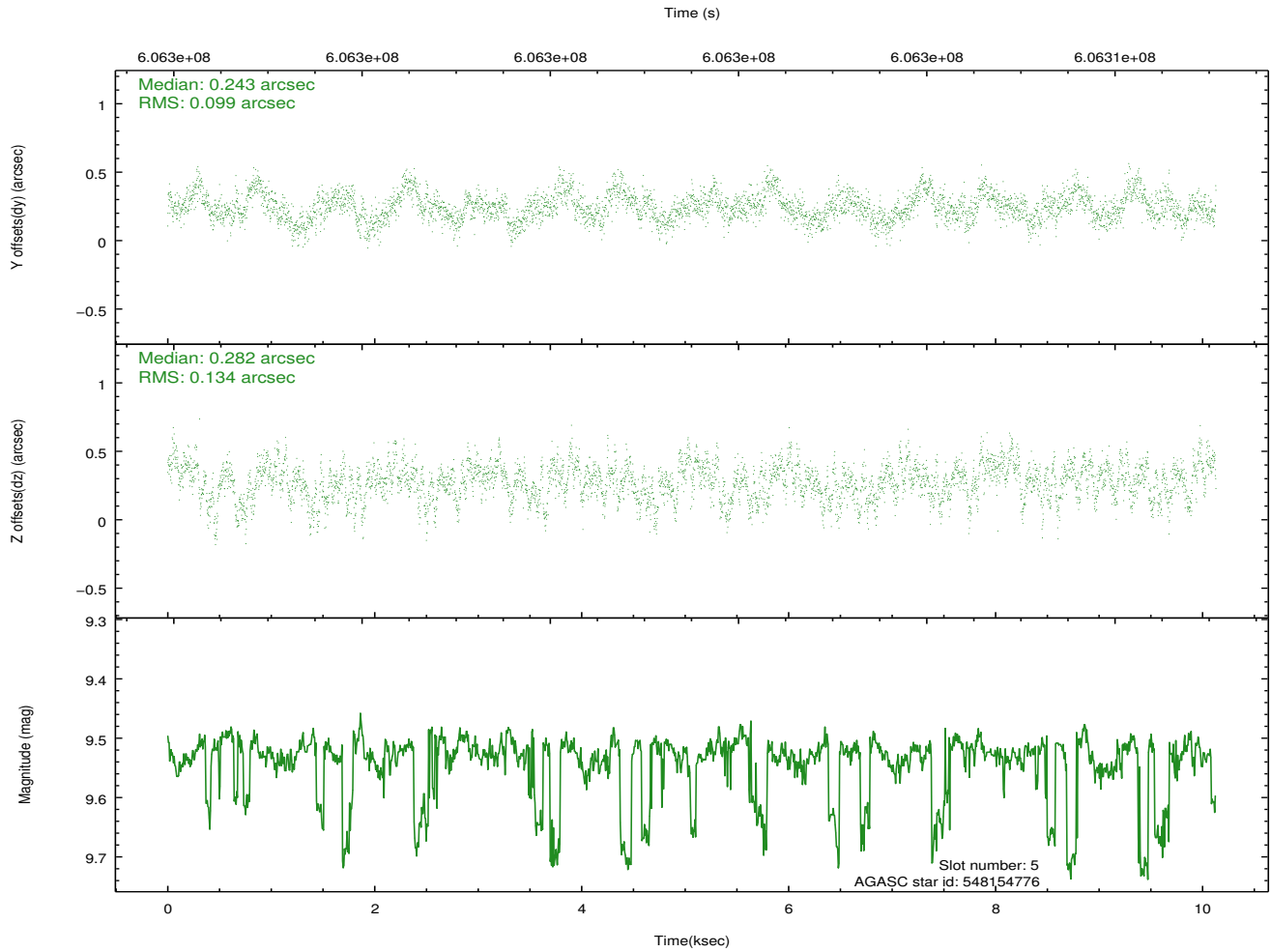
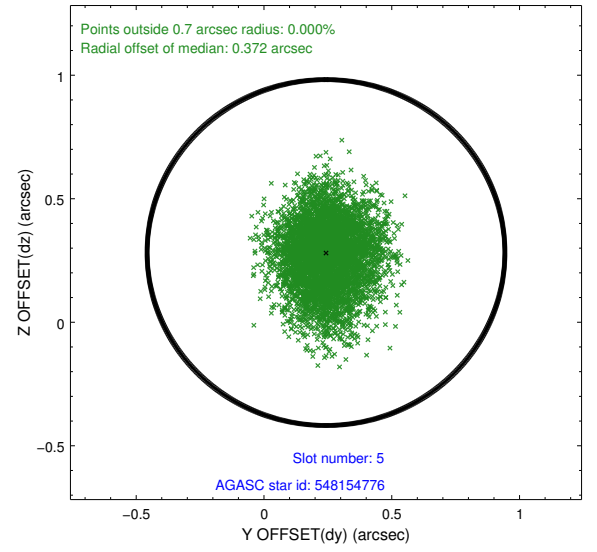
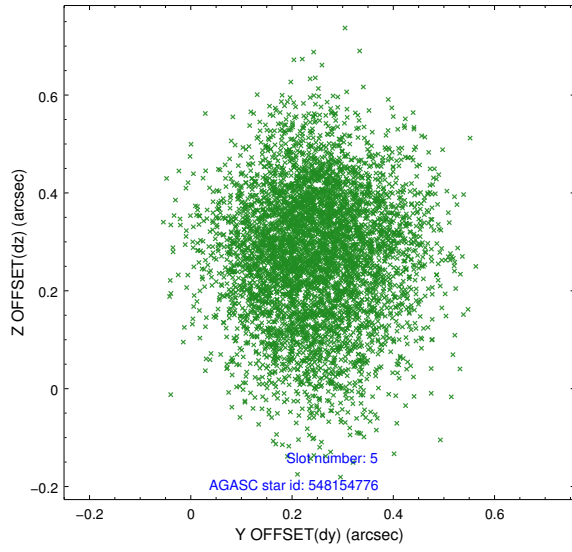
2.4.1 Slot 3



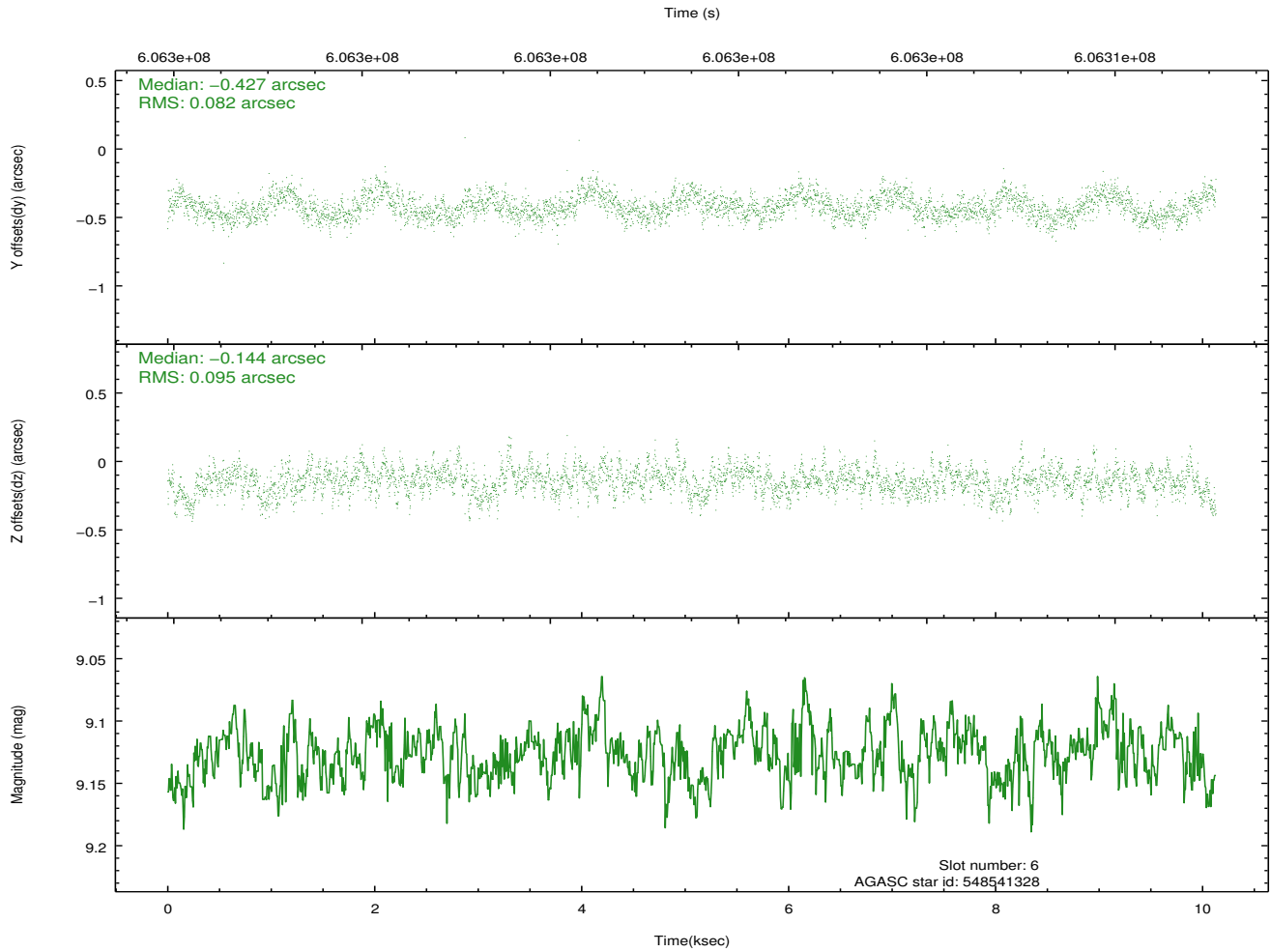
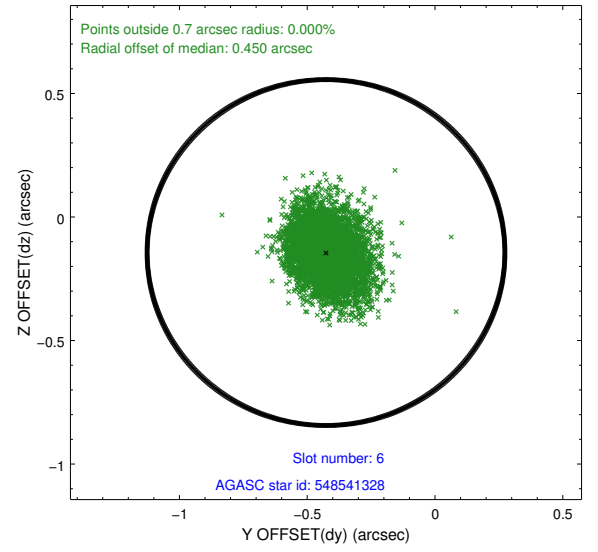
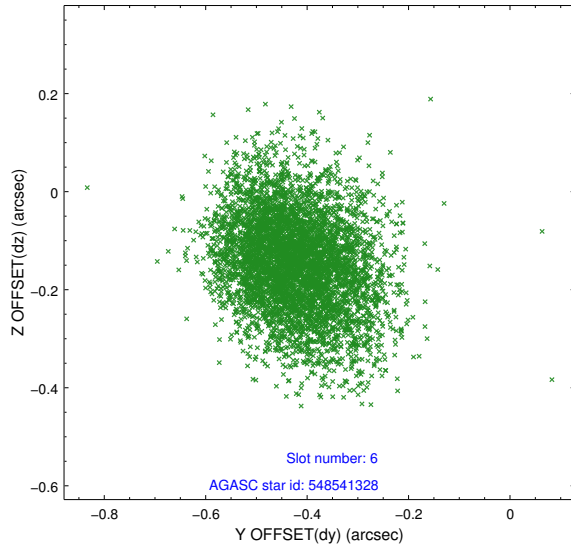
2.4.2 Slot 4



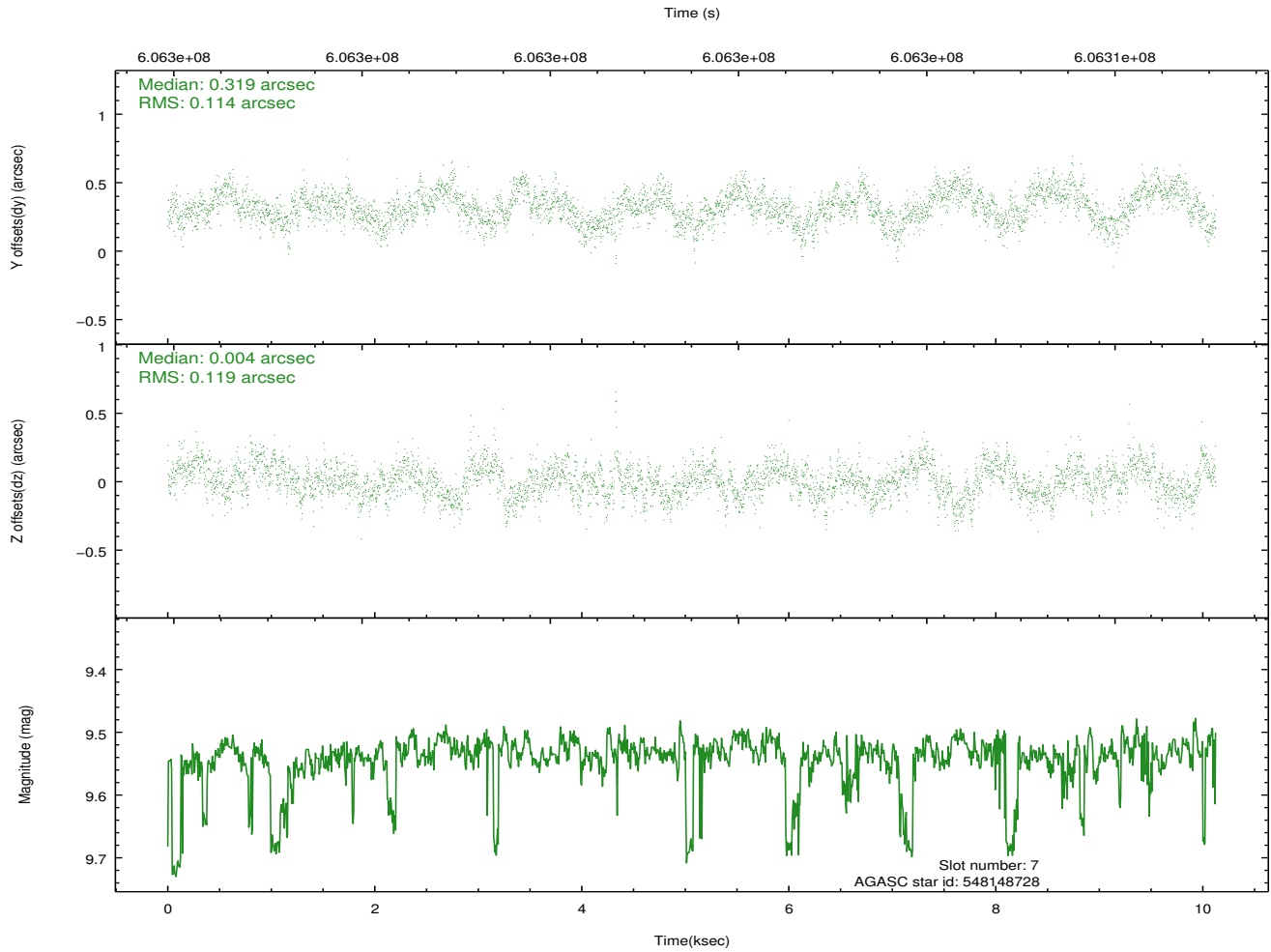
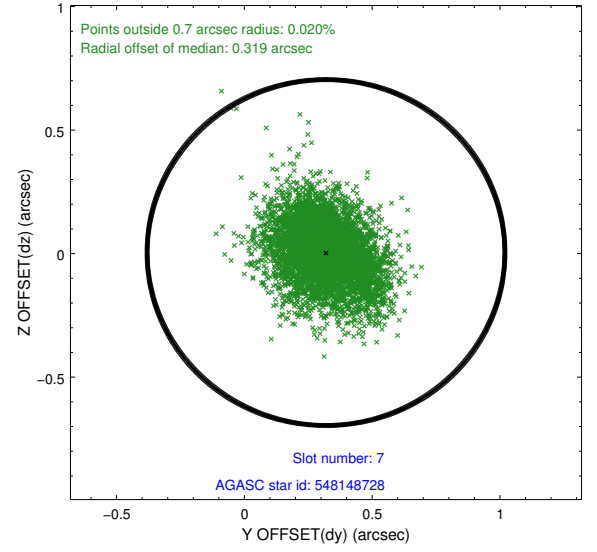
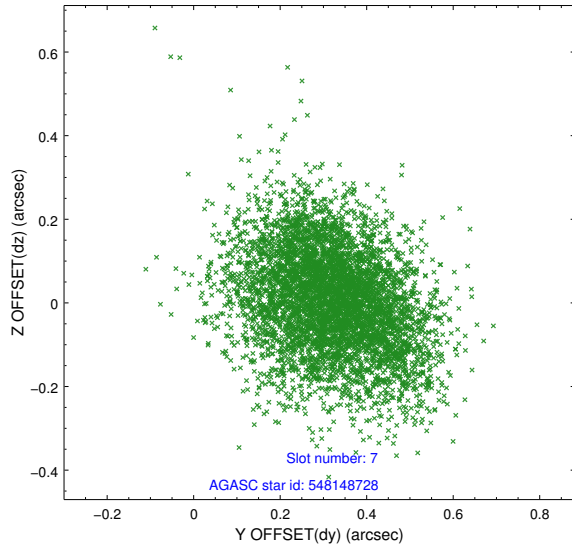
2.4.3 Slot 5



2.4.4 Slot 6

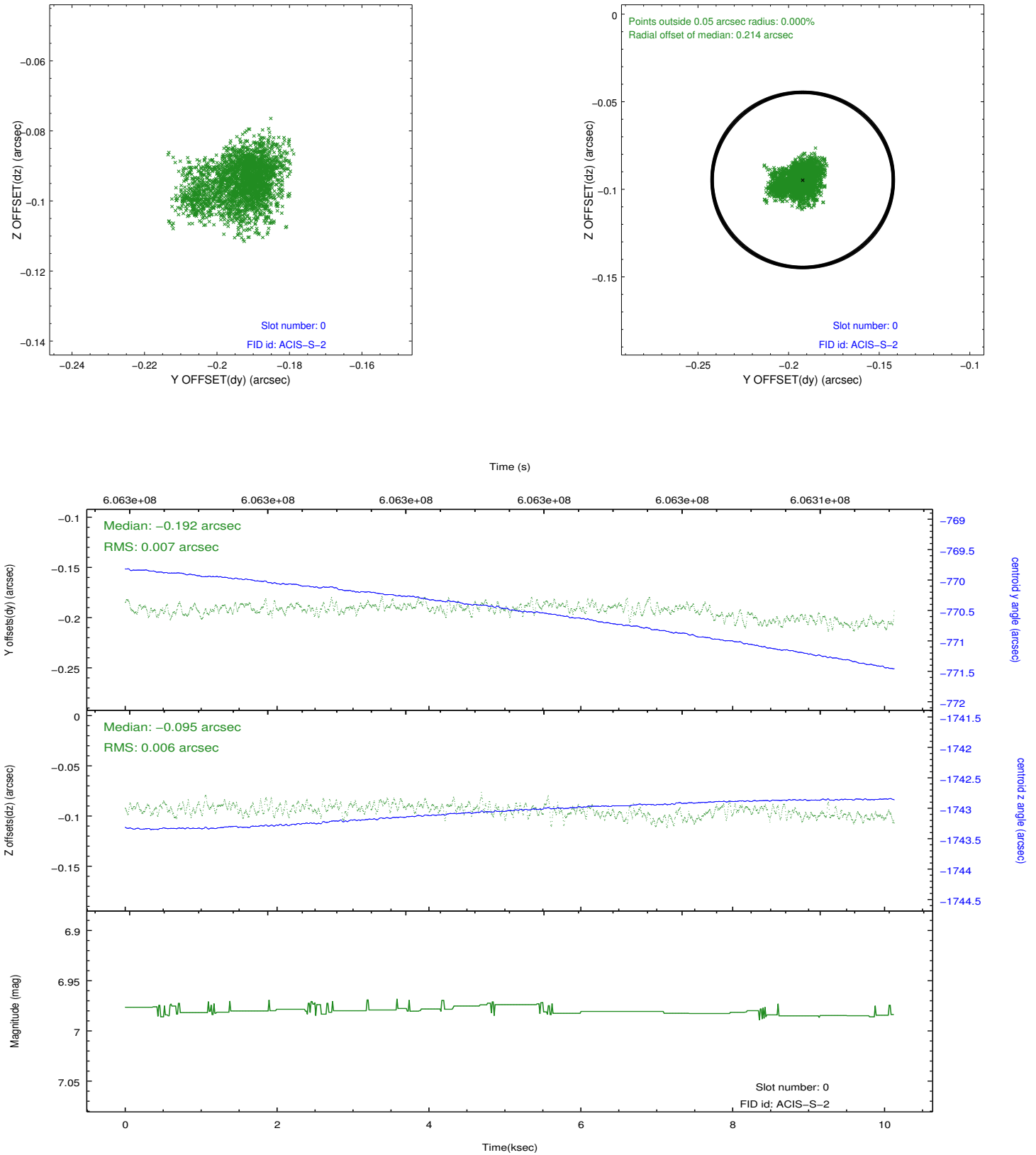


2.4.5 Slot 7

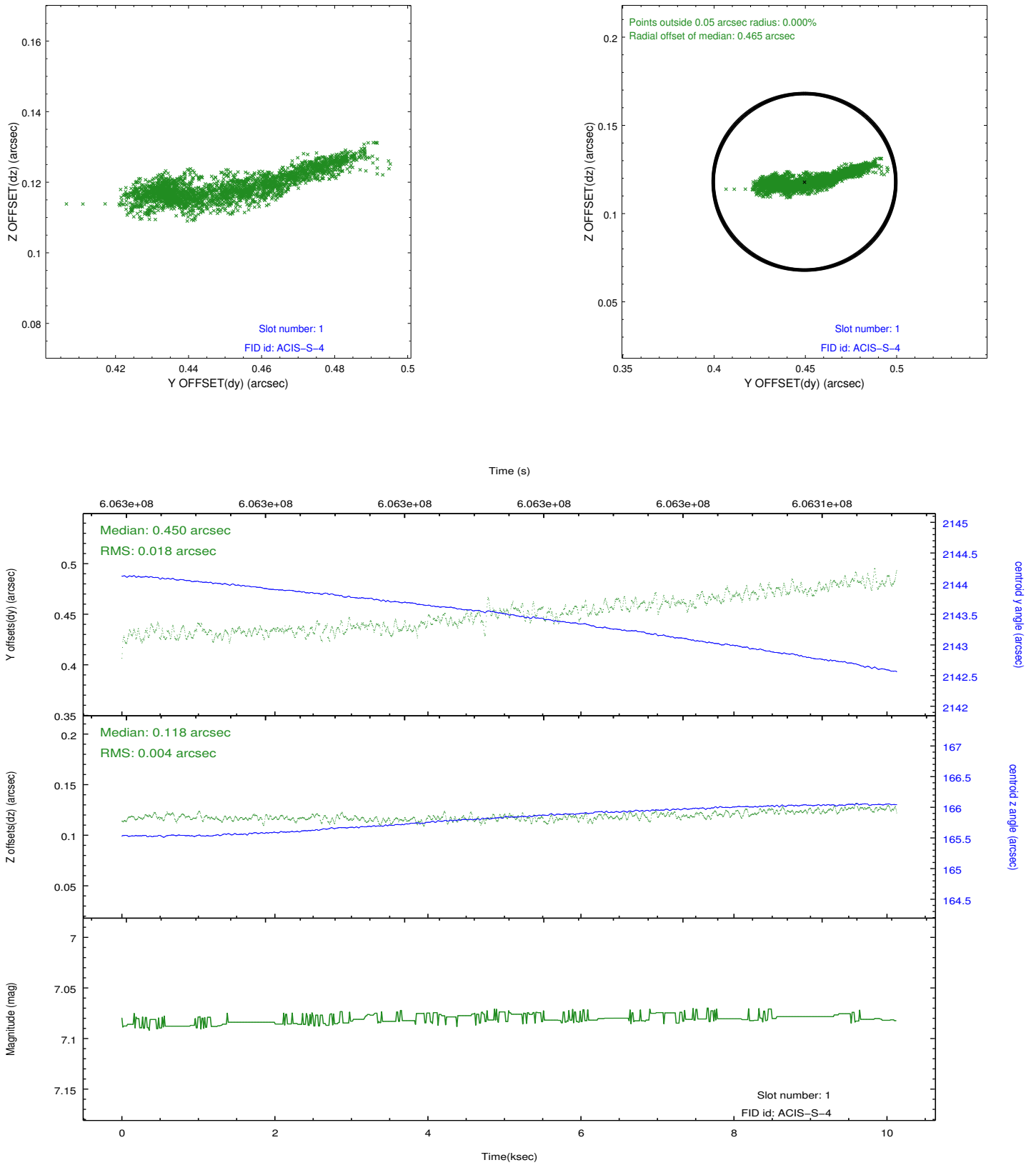


2.5 FID Slots

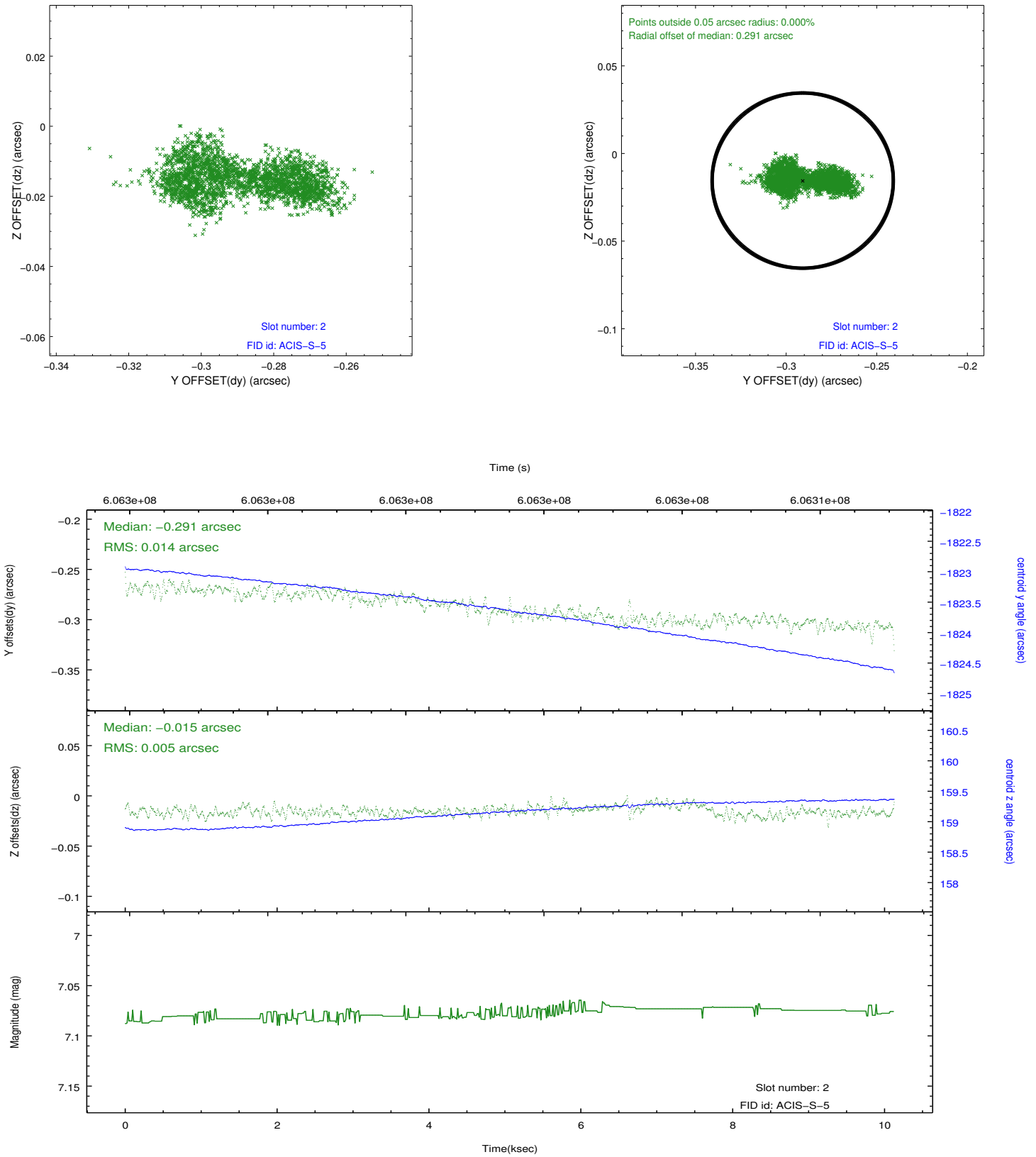
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.03.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.070929342985

A.2 Comments