

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18064 - L2 Version 1
Chandra X-Ray Center

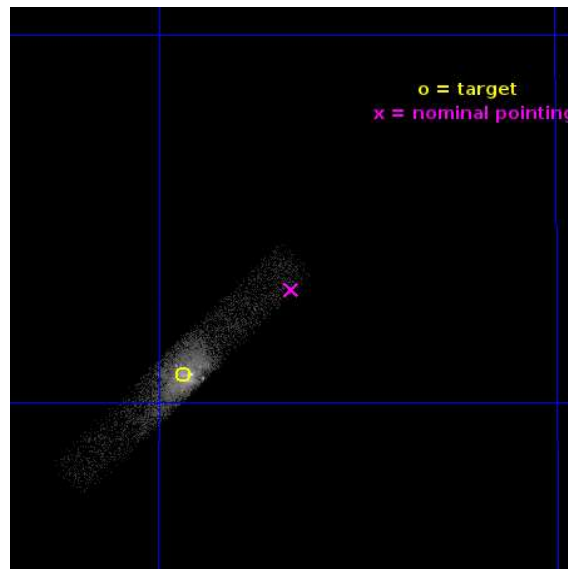
L2 Processing Date : Apr 8 2016

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1 Front

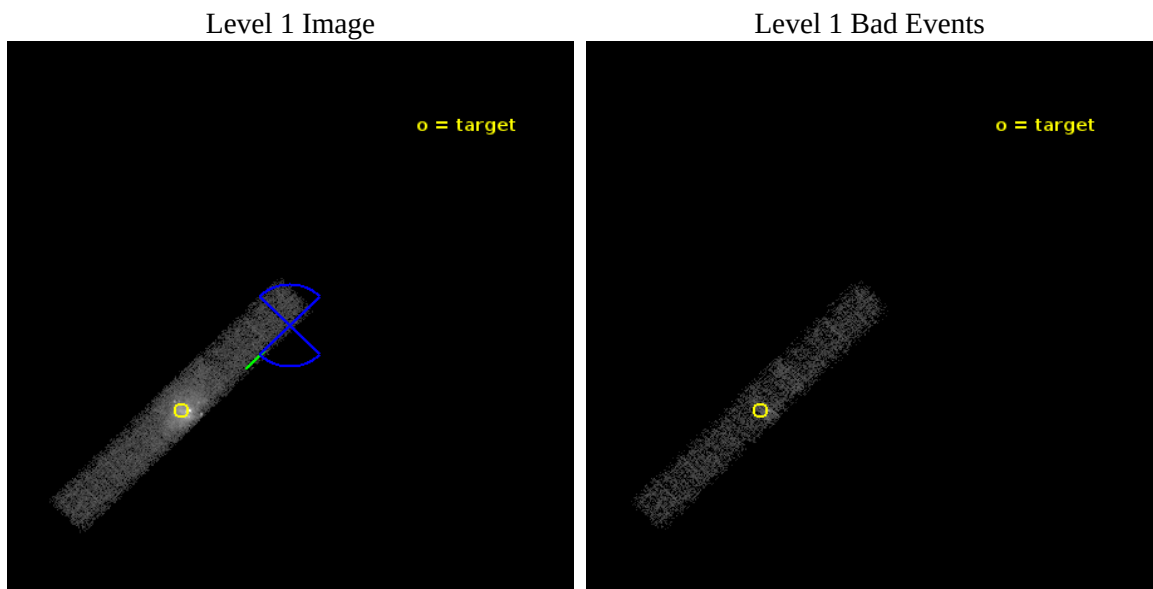
seq_num	601246	Sequence number
obs_id	18064	Observation id
title	Timing and Spectral Studies of the Extreme Binary Population in M82	
observer	Professor Fiona Harrison	Principal investigator
object	M82 offset 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.969583	Observer's specified target RA [deg]
dec_targ	69.679444	Observer's specified target Dec [deg]
ra_nom	148.83297188519	Nominal RA [deg]
dec_nom	69.71794247914	Nominal Dec [deg]
roll_nom	224.83681882803	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25089.993834972	Sum of GTIs [s]
livetime	23186.819675969	Livetime [s]
ontime3	25089.993834972	Sum of GTIs [s]
l2events	33859	Number of level 2 events



2 OBI

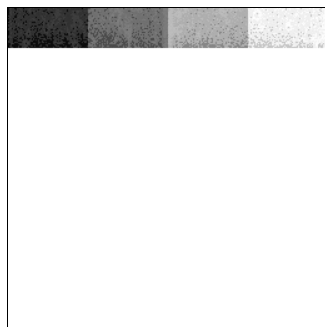
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 3



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	25089.993834972	Sum of GTIs [s]
caldbver	4.7.1	 	ontime3	25089.993834972	Sum of GTIs [s]
date	2016-04-08T20:14:23	Date and time of file creation	l1events	61914	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

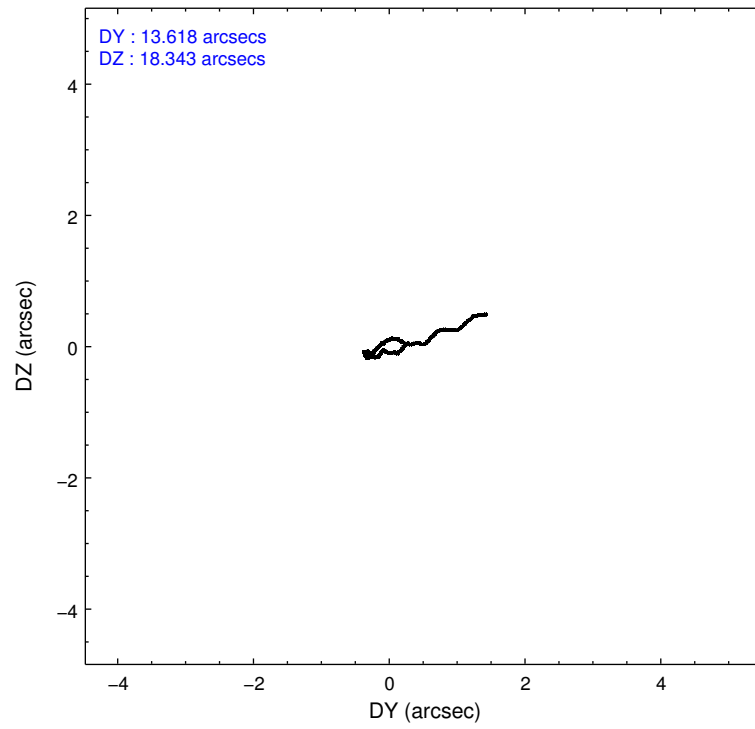
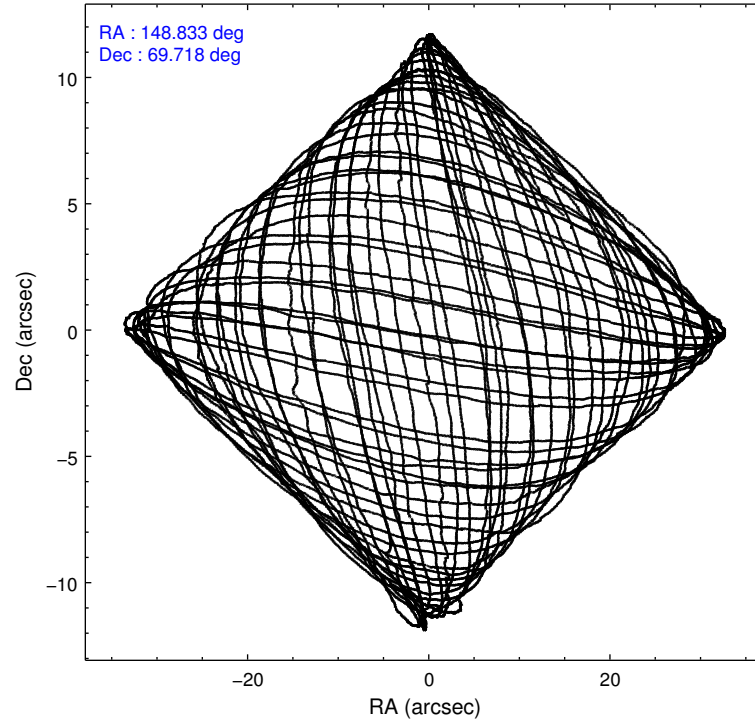
	ccd 3
level 1 events	61914
rejected events	23991
rejected %	38%

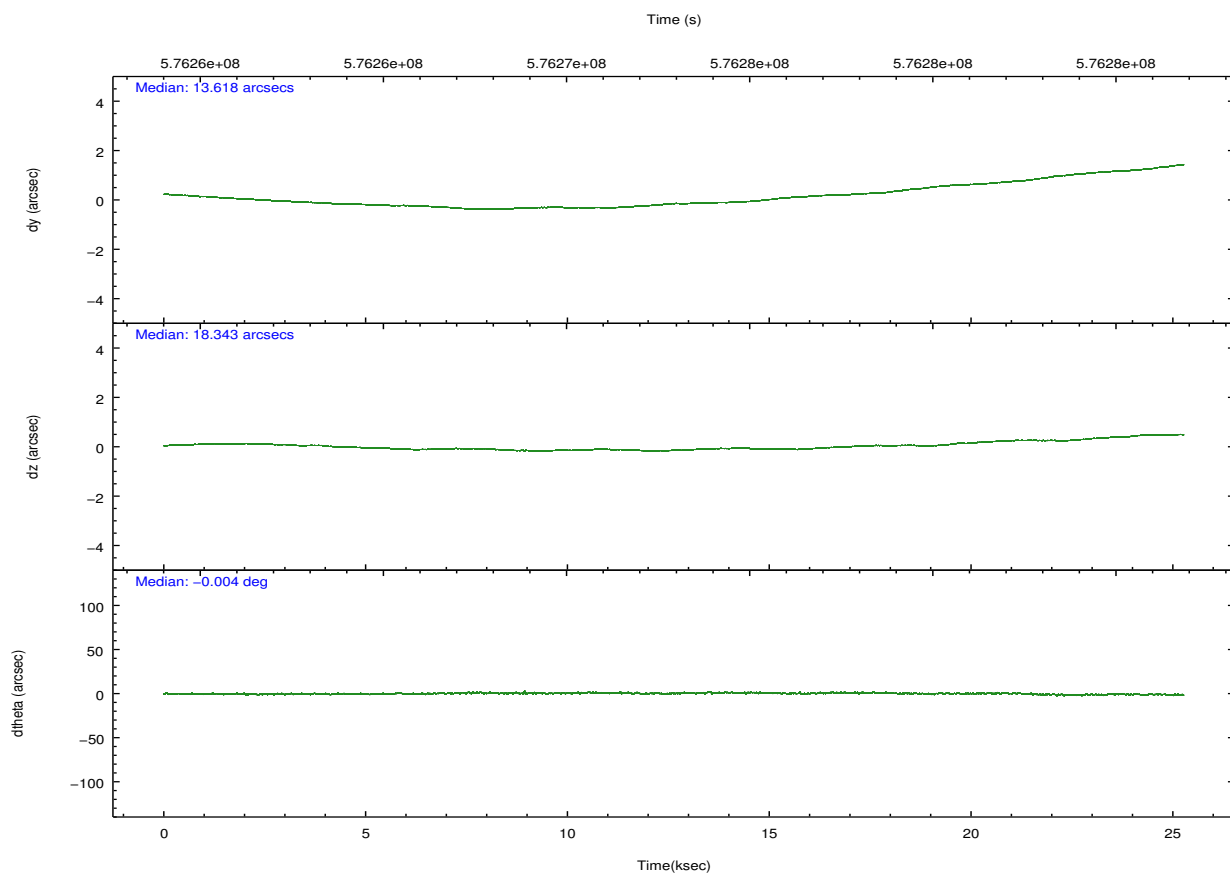
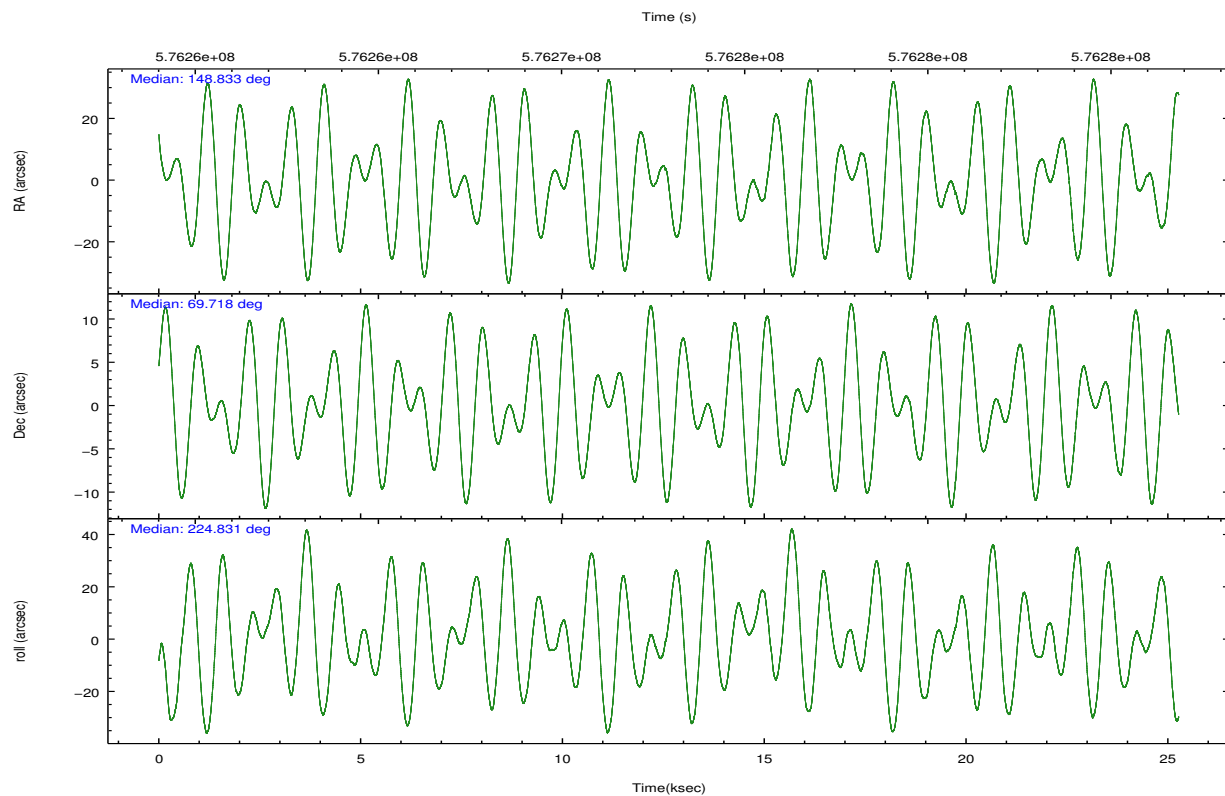
	ccd 3
grade 0 events	29955
	48%
grade 1 events	176
	0%
grade 2 events	3649
	5%
grade 3 events	1575
	2%
grade 4 events	1441
	2%
grade 5 events	1095
	1%
grade 6 events	1304
	2%
grade 7 events	22719
	36%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3	ACIS-3	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	148.853541	148.8329718851924	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	69.744595	69.71794247914026	Subarray start row	897	897
[deg] Pointing Roll	224.608835	224.83681882803	Subarray row count	128	128
[deg] Roll angle	180.000000	180.000000	Alternating exposures requested	N	N
[deg] Roll tolerance	45.000000	45.000000	[s] Primary exposure time	0.000000	0.5
Roll constraint allows 180D rotation	Y	Y			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	576260556.184000	576259548.95845			
Observation start date	2016-04-05T16:21:28	2016-04-05T16:05:48			
[s] Observation end time (MET)	576285556.184000	576286471.60999			
Observation end date	2016-04-05T23:18:08	2016-04-05T23:34:31			
Read mode	TIMED	TIMED			

2.3 Aspect



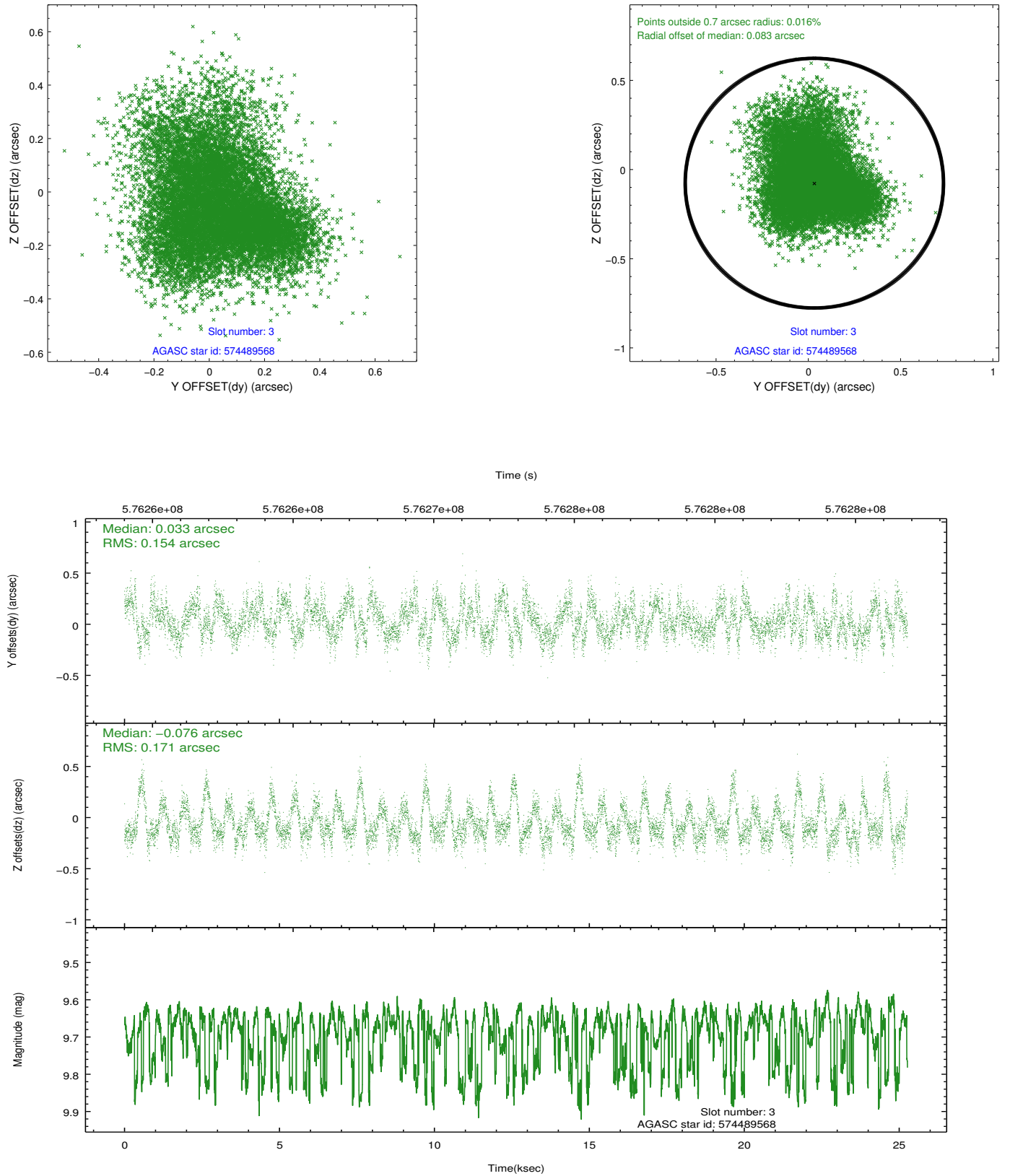


Slot Statistics

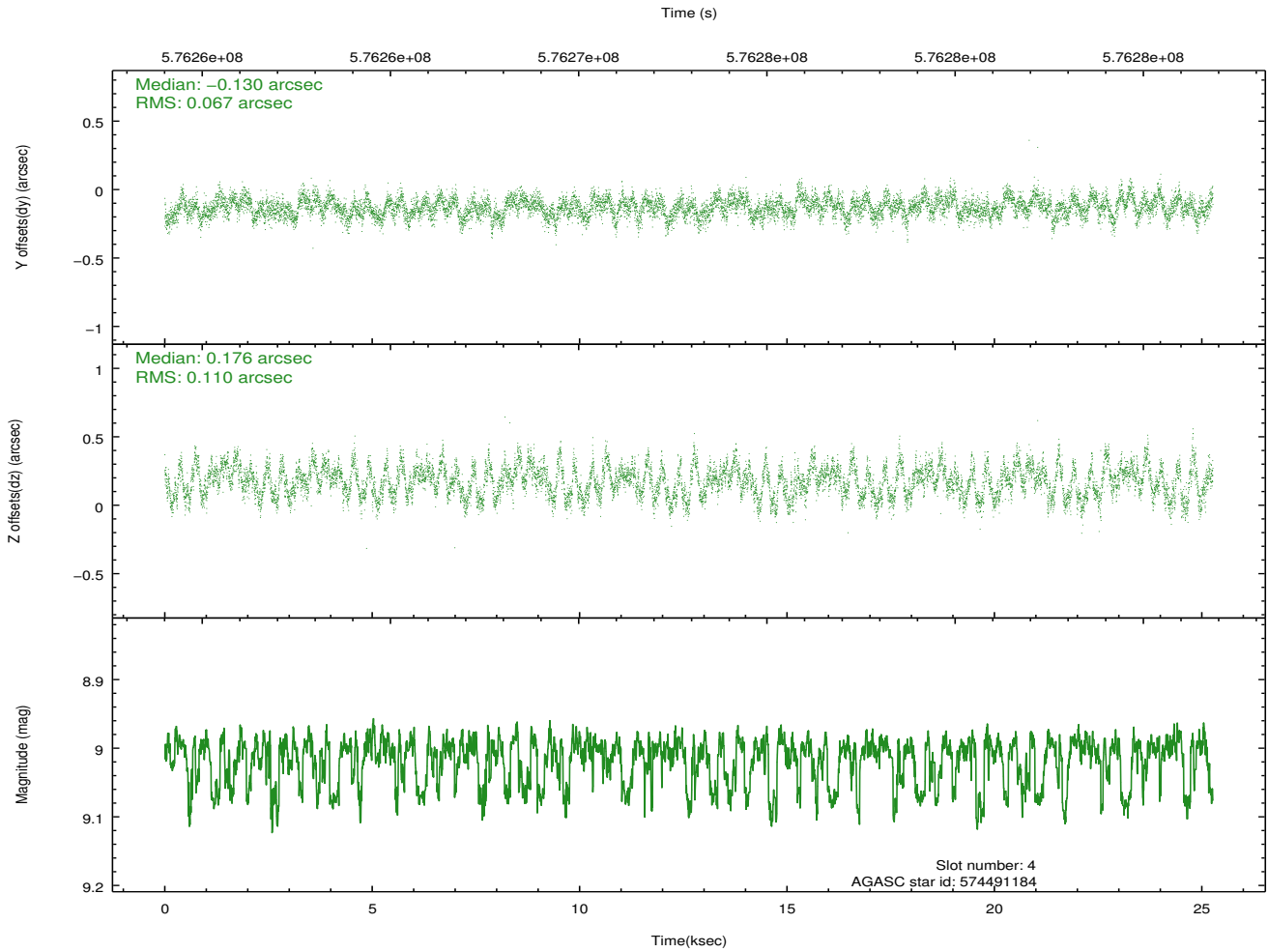
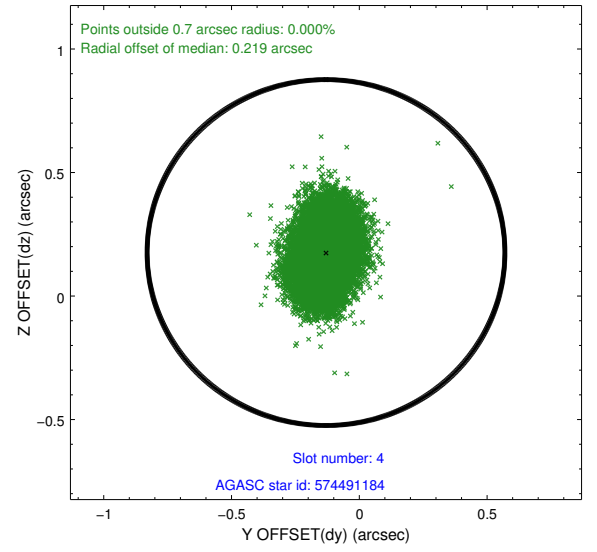
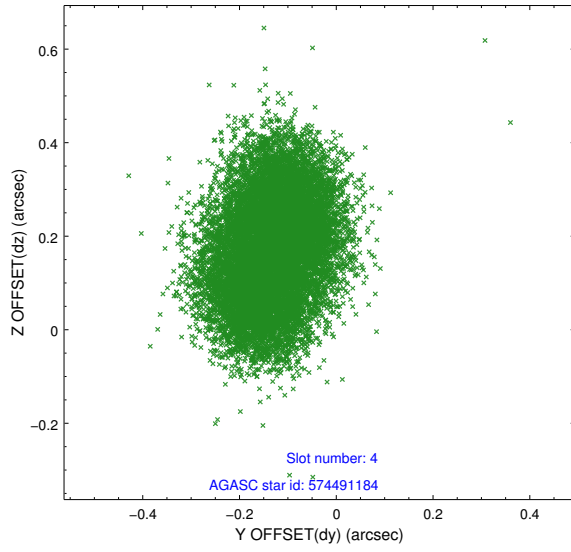
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	6163	0.076	-0.022	0.009	0.015	0.000000	0.000000	925.80	-842.06
1	FID		ACIS-I-5	7.25	6163	-0.336	0.047	0.011	0.021	0.000000	0.000000	-1822.73	1055.33
2	FID		ACIS-I-6	7.25	6162	0.168	0.045	0.011	0.024	0.000000	0.000000	391.22	1700.05
3	GUIDE	used	574489568	9.68	12310	0.033	-0.076	0.241	0.404	147.223974	69.438157	2222.60	-680.47
4	GUIDE	used	574491184	9.01	12315	-0.130	0.176	0.140	0.219	148.582453	69.768699	179.26	-298.84
5	GUIDE	used	574491280	9.28	12242	-0.163	-0.217	0.189	0.286	148.611567	69.450135	964.50	539.47
6	GUIDE	used	574491872	9.22	12309	0.021	0.036	0.137	0.219	147.207613	69.765453	1391.47	-1508.24
7	GUIDE	used	574886496	8.49	12320	0.202	0.053	0.143	0.211	148.945563	70.041136	-829.62	-680.81

2.4 Star Slots

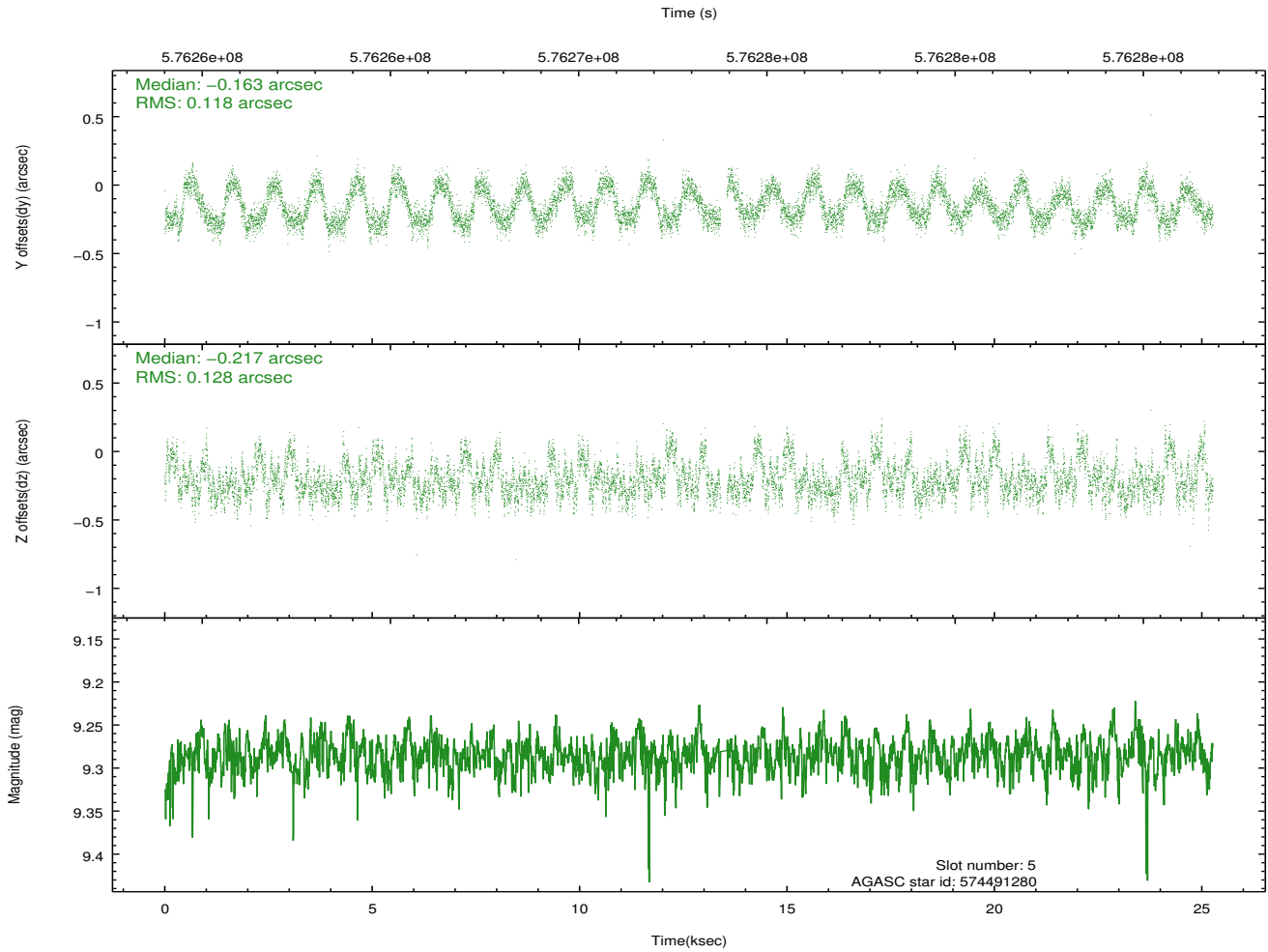
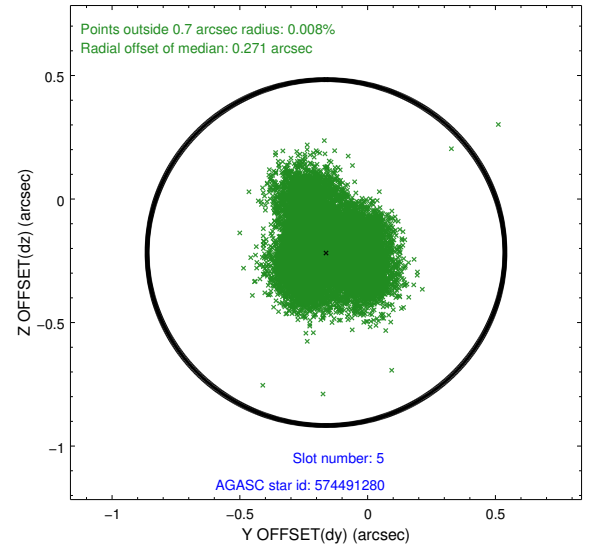
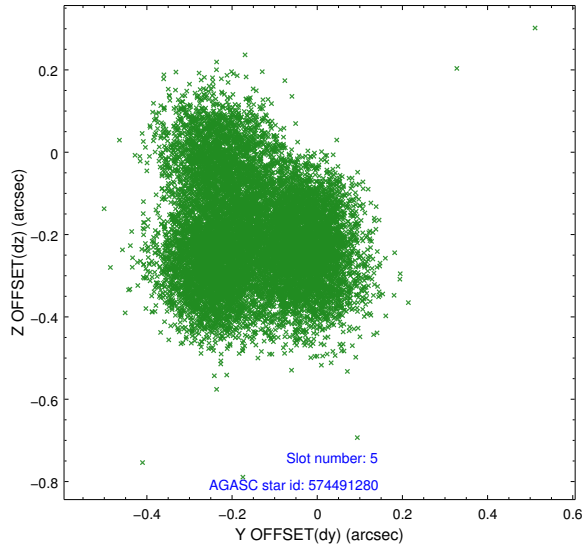
2.4.1 Slot 3



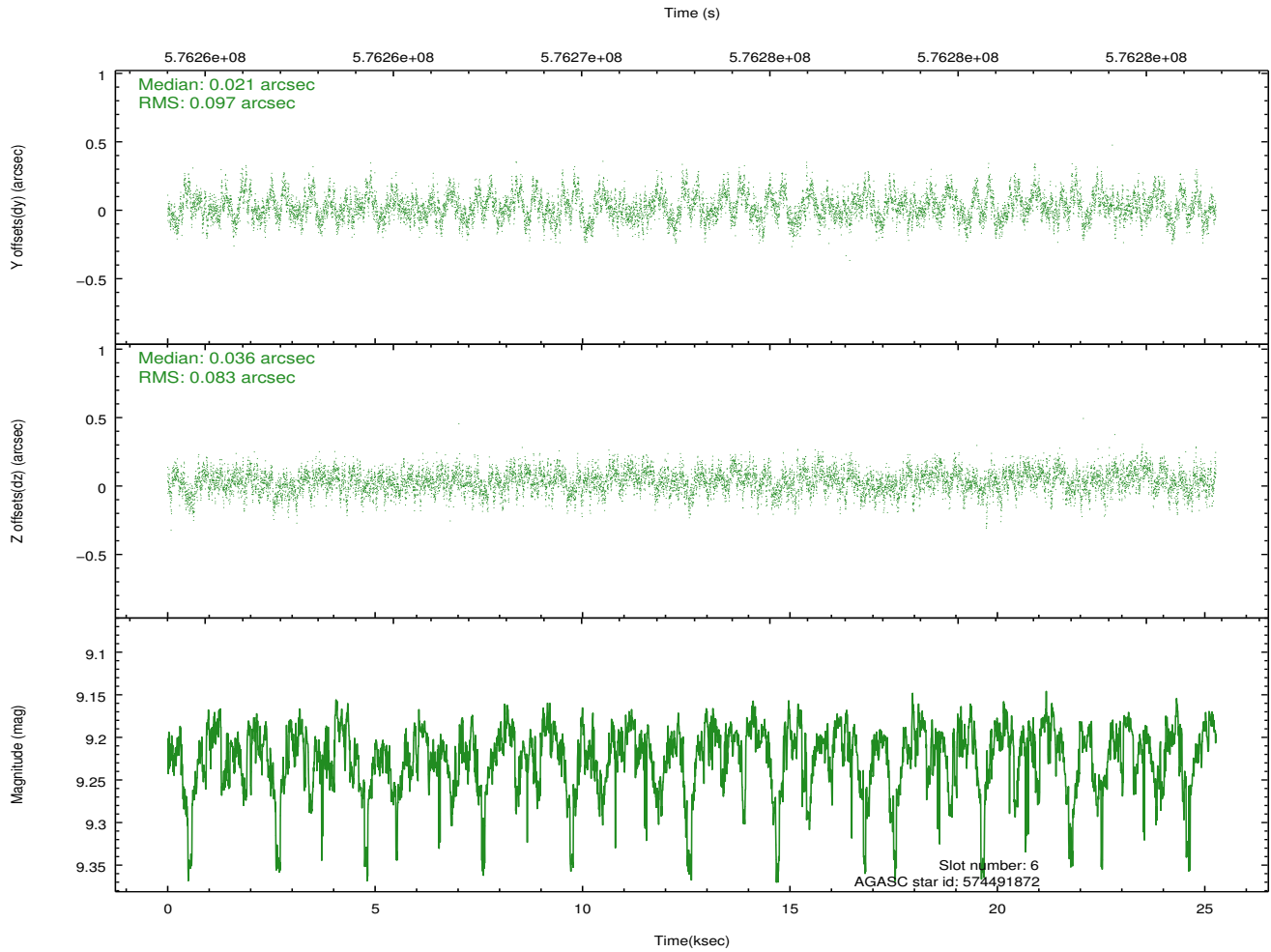
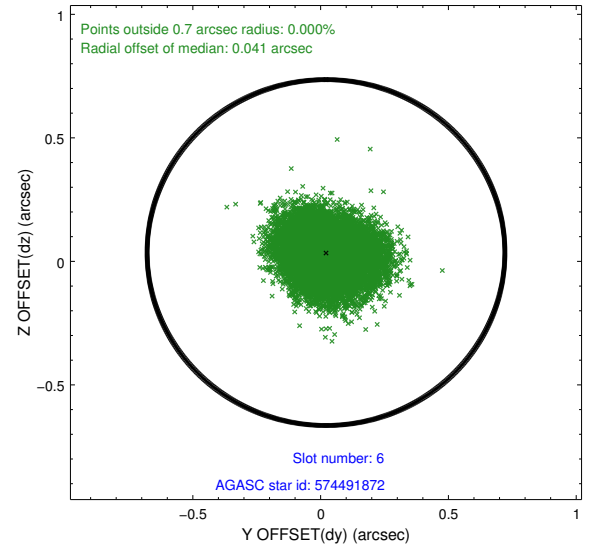
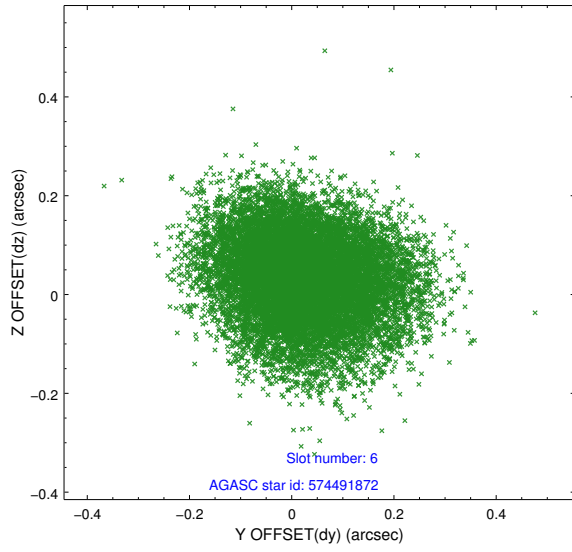
2.4.2 Slot 4



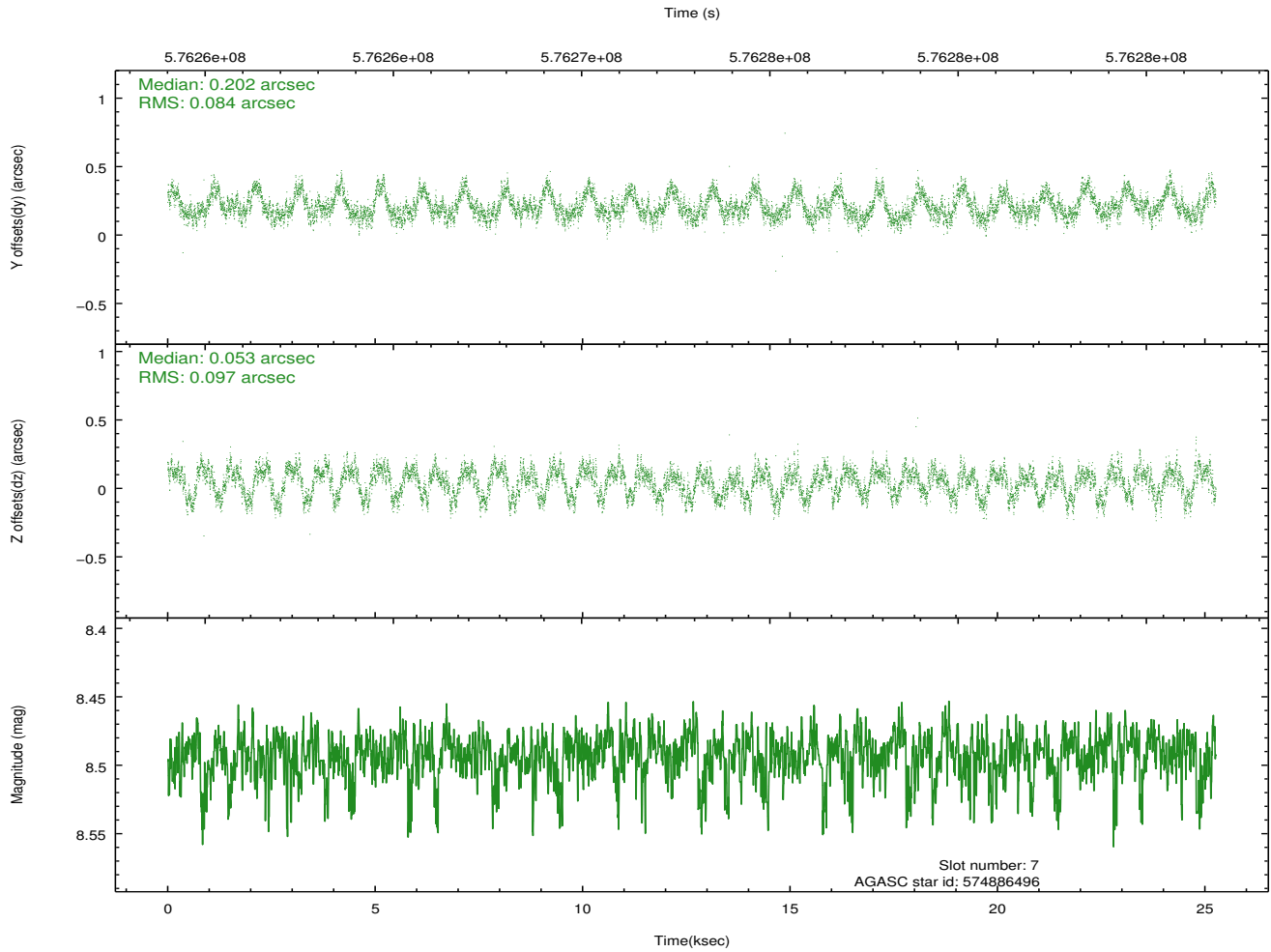
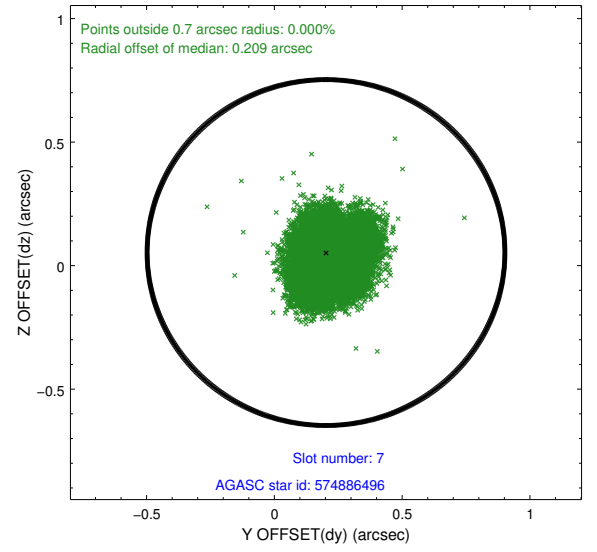
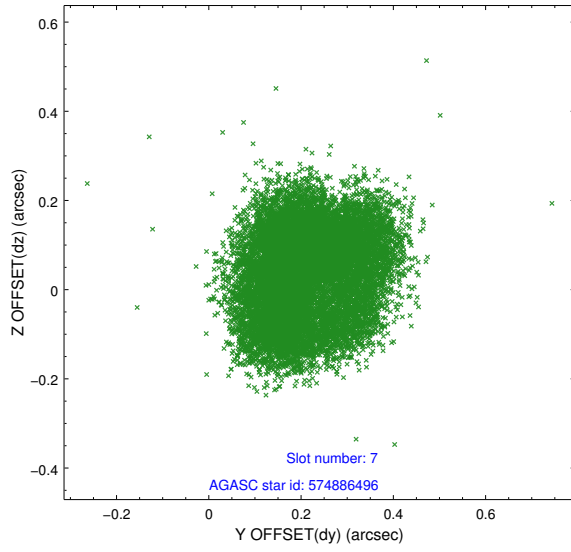
2.4.3 Slot 5



2.4.4 Slot 6

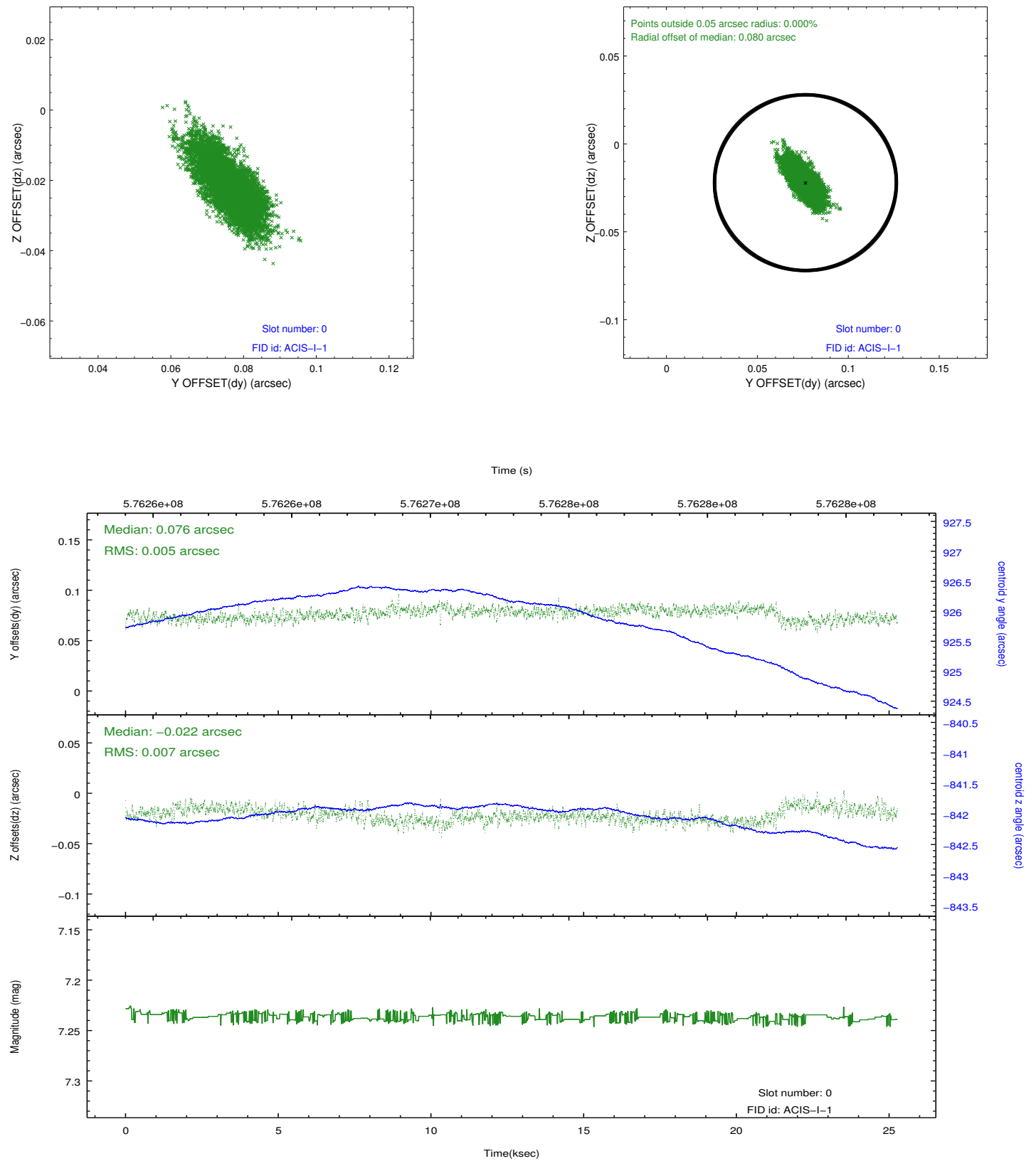


2.4.5 Slot 7

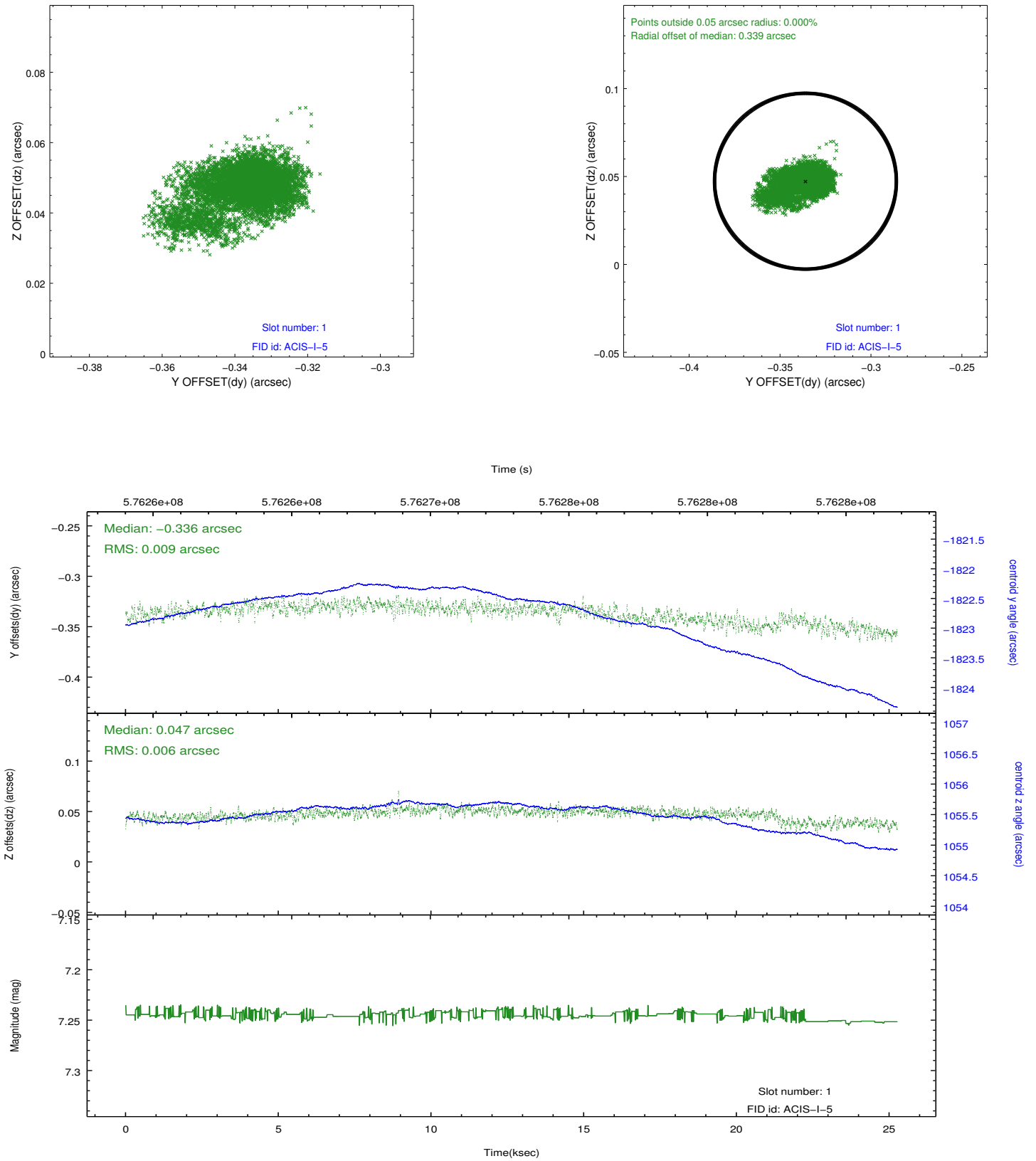


2.5 FID Slots

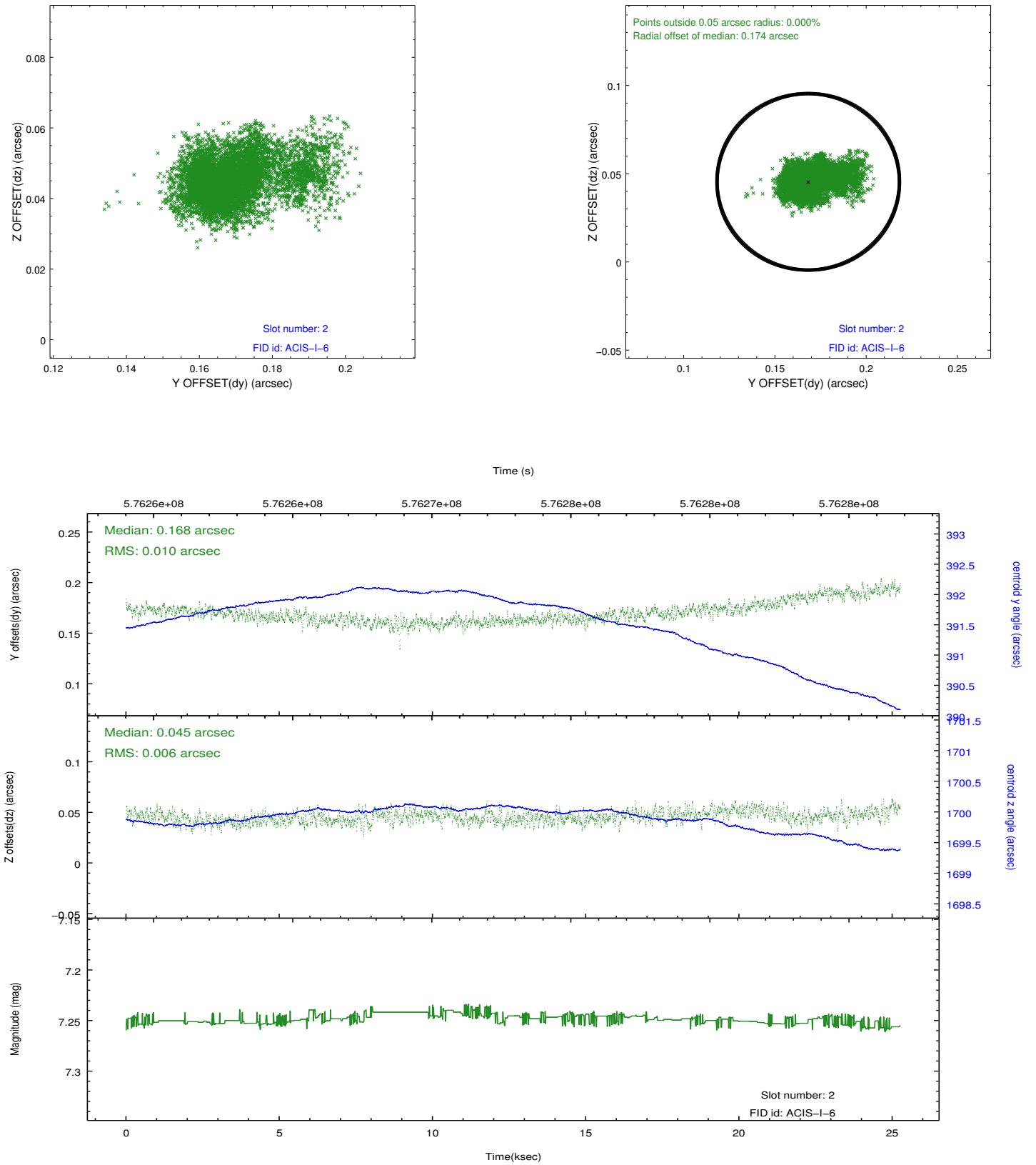
2.5.1 Slot 0



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)	2016.04.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.089993834972

A.2 Comments

Roll constraint met. A file naming issue caused this observation to need reprocessing using Special Processing. The technique used was to manually set the start time of the observation in the obspar parameter fits file, overriding any erroneous automated settings.