

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19034 - L2 Version 1
Chandra X-Ray Center

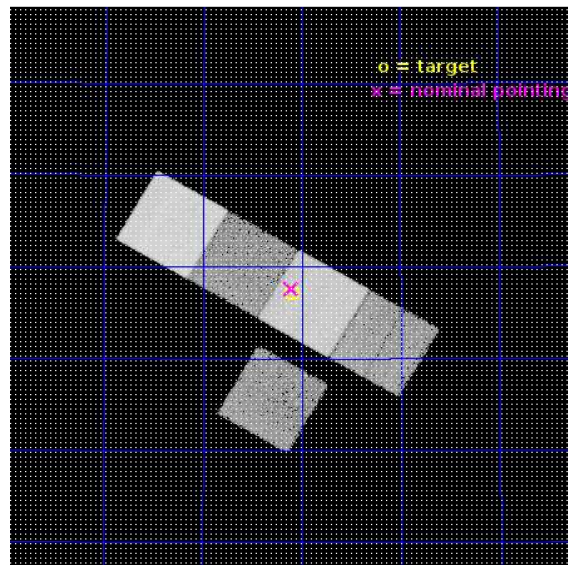
L2 Processing Date : Sep 18 2017

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

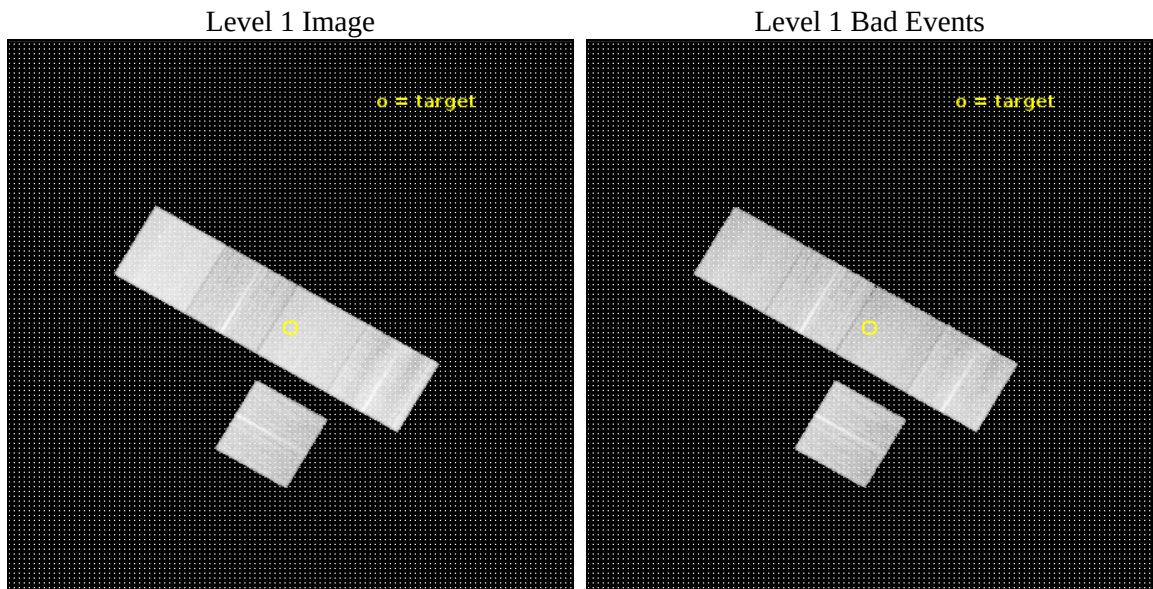
seq_num	502684	Sequence number
obs_id	19034	Observation id
title	Source of Energy and pre-explosion progenitor evolution of Super-luminous Supernovae	Proposal title
observer	Raffaella Margutti	Principal investigator
object	SN2017egm	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	154.773417	Observer's specified target RA [deg]
dec_targ	46.453911	Observer's specified target Dec [deg]
ra_nom	154.77606948445	Nominal RA [deg]
dec_nom	46.460579447148	Nominal Dec [deg]
roll_nom	30.154685441871	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25057.300192833	Sum of GTIs [s]
livetime	24729.908118898	Livetime [s]
ontime3	25057.300192833	Sum of GTIs [s]
ontime5	25057.300192833	Sum of GTIs [s]
ontime6	25057.300192833	Sum of GTIs [s]
ontime7	25057.300192833	Sum of GTIs [s]
ontime8	25051.018361807	Sum of GTIs [s]
l2events	271902	Number of level 2 events



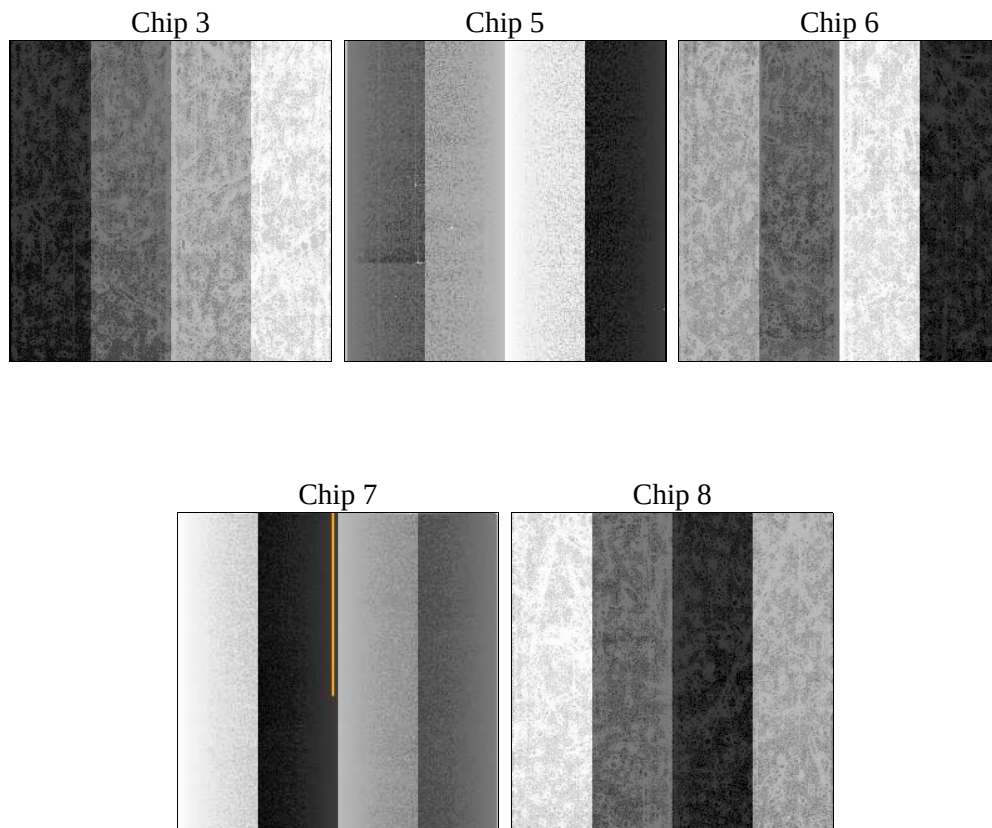
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	25057.300192833	Sum of GTIs [s]
caldbver	4.7.6	 	ontime3	25057.300192833	Sum of GTIs [s]
date	2017-09-18T05:48:17	Date and time of file creation	ontime5	25057.300192833	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	25057.300192833	Sum of GTIs [s]
			ontime7	25057.300192833	Sum of GTIs [s]
			ontime8	25051.018361807	Sum of GTIs [s]
			l1events	1026881	Number of level 1 events

2.1.4 Events

	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	158195	262744	167750	215857	222335
rejected events	139694	136613	148259	120658	158783
rejected %	88%	51%	88%	55%	71%

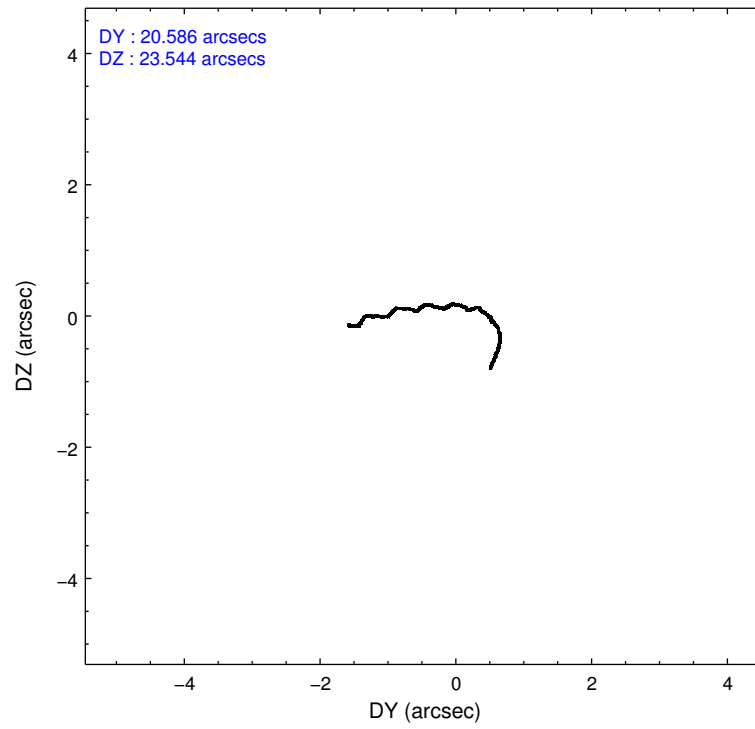
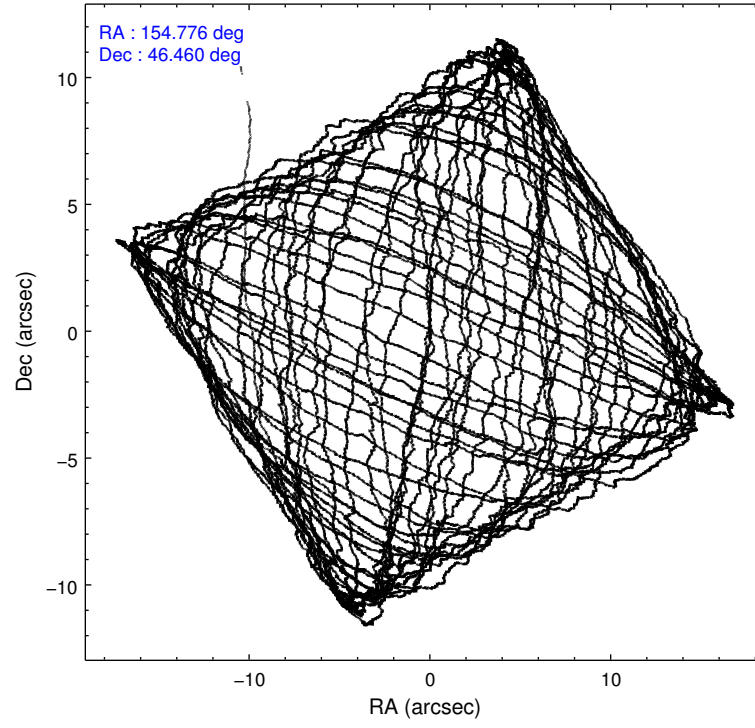
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	7036	7336	6617	8168	19103
	4%	2%	3%	3%	8%
grade 1 events	95	589	76	301	206
	0%	0%	0%	0%	0%
grade 2 events	4010	40218	4473	20425	15050
	2%	15%	2%	9%	6%
grade 3 events	1782	4172	1919	7672	6749
	1%	1%	1%	3%	3%
grade 4 events	1937	4061	1927	7689	6333
	1%	1%	1%	3%	2%
grade 5 events	7987	19203	7867	21418	11902
	5%	7%	4%	9%	5%
grade 6 events	3738	70358	4561	51256	16322
	2%	26%	2%	23%	7%
grade 7 events	131610	116807	140310	98928	146670
	83%	44%	83%	45%	65%

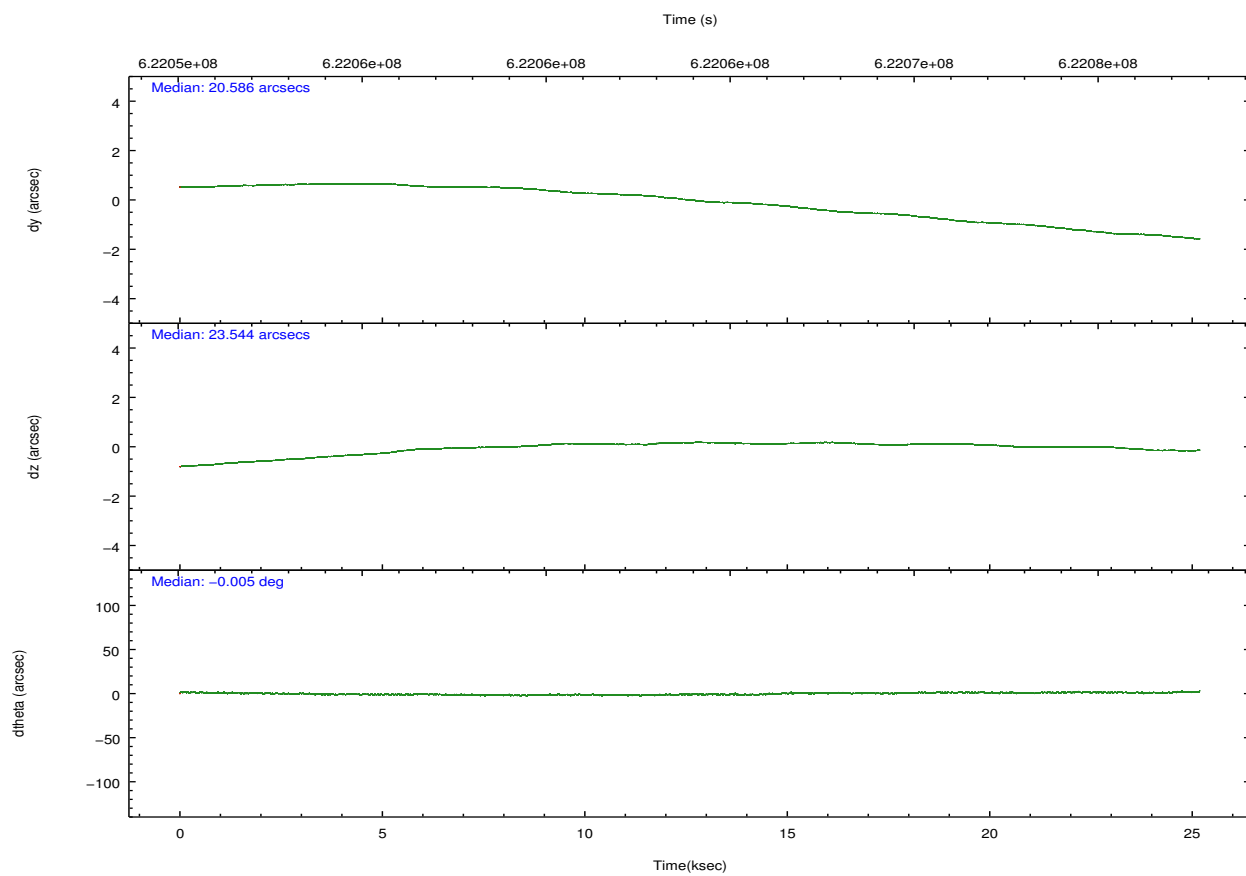
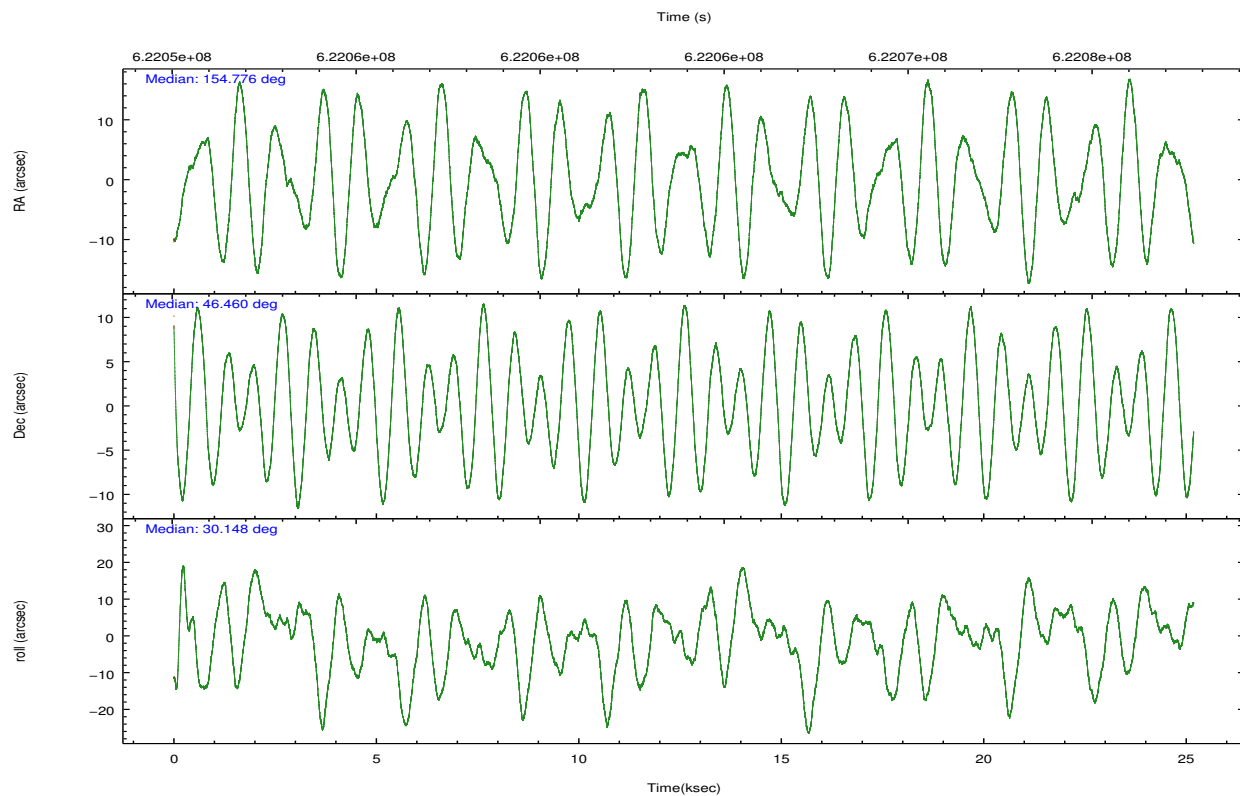
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-35678	ACIS-35678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	154.756718	154.7760694844548
[deg] Pointing Dec	46.436607	46.4605794471476
[deg] Pointing Roll	30.012105	30.15468544187125
[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)	622051509.184000	622050487.7056201
Observation start date	2017-09-17T16:04:00	2017-09-17T15:48:07
[s] Observation end time (MET)	622076509.184000	622078026.89473
Observation end date	2017-09-17T23:00:40	2017-09-17T23:27:06
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	O1	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
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



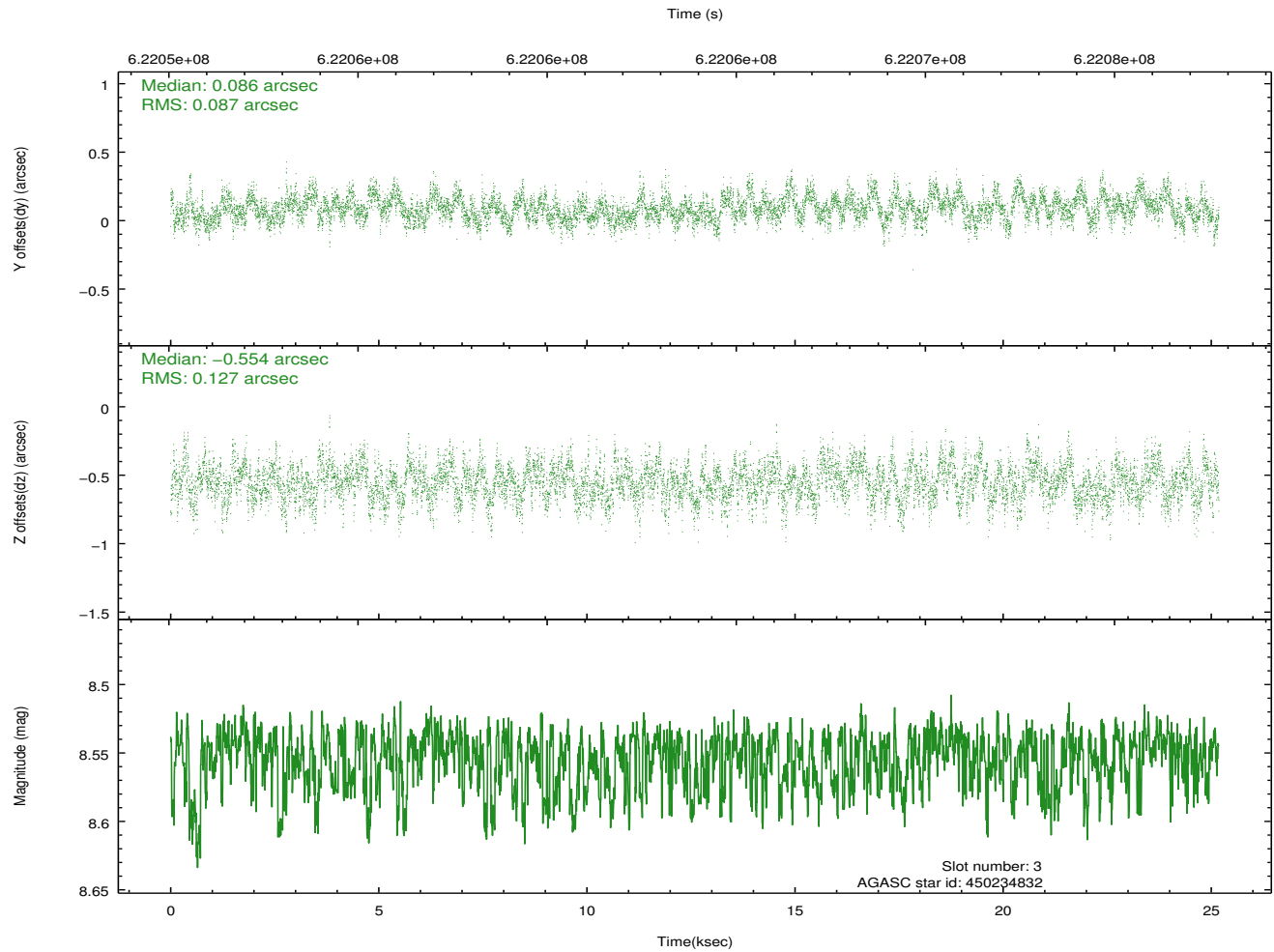
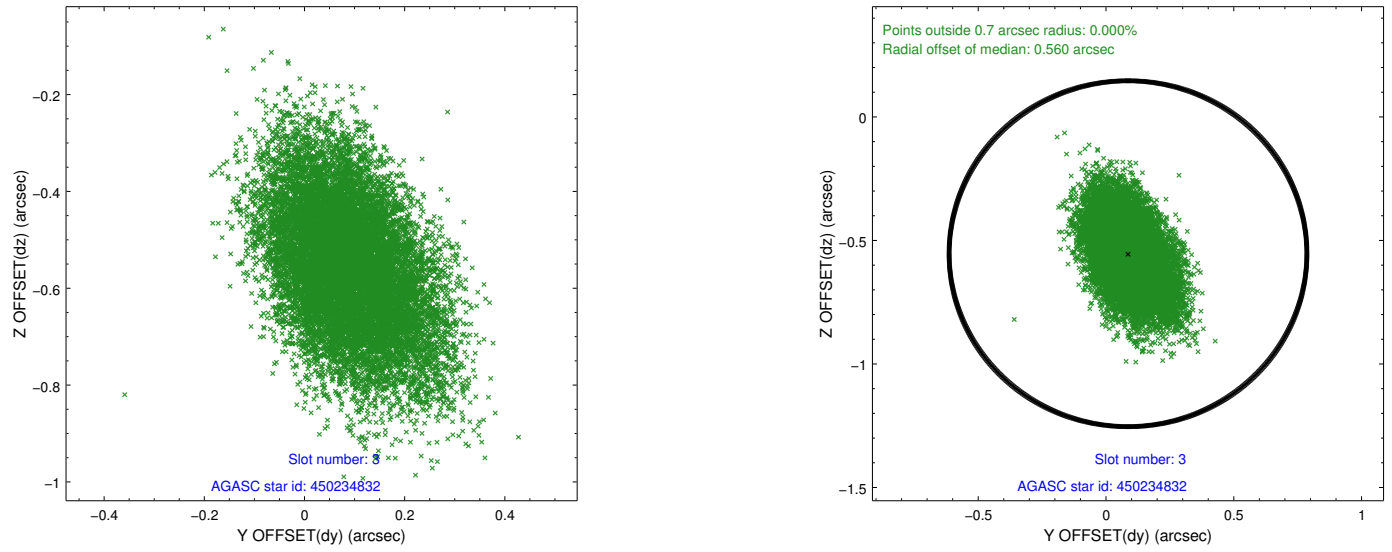


Slot Statistics

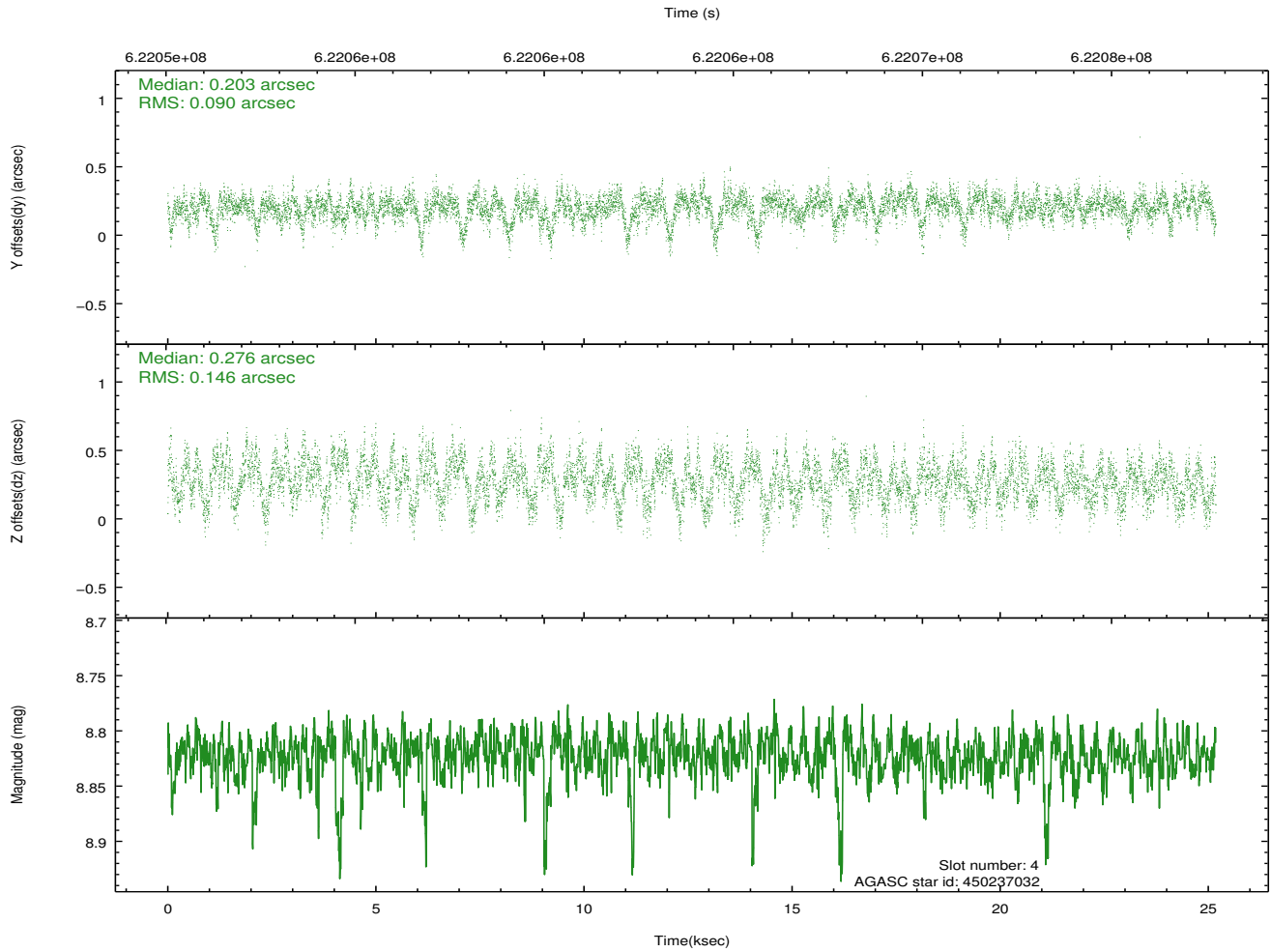
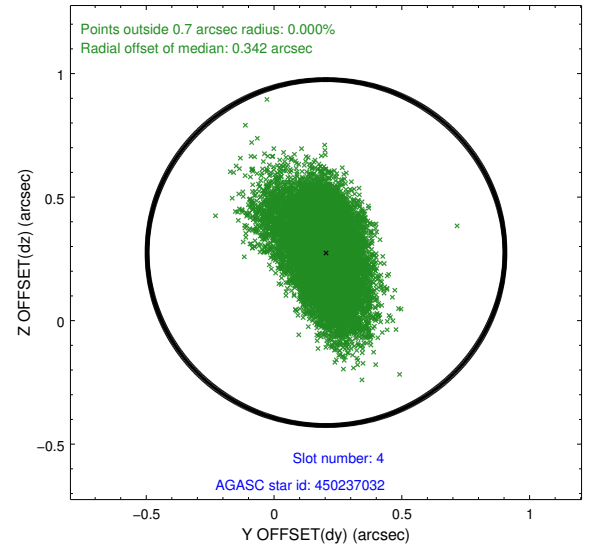
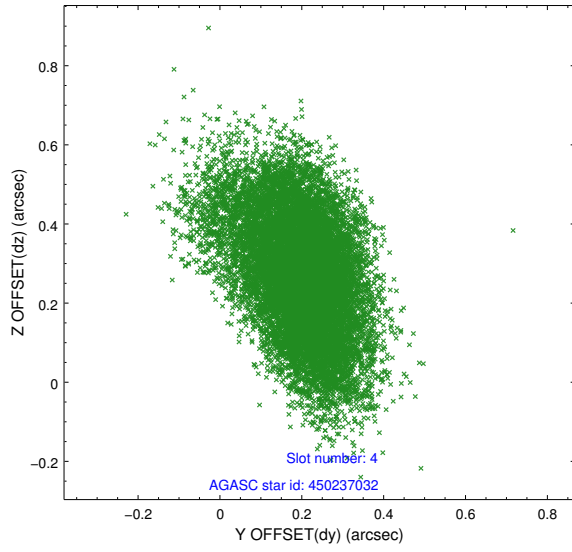
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.99	6143	-0.241	-0.113	0.018	0.037	0.000000	0.000000	-773.77	-1745.20
1	FID		ACIS-S-4	7.09	6143	0.497	0.147	0.008	0.014	0.000000	0.000000	2140.17	163.45
2	FID		ACIS-S-5	7.10	6143	-0.287	-0.026	0.018	0.034	0.000000	0.000000	-1826.53	157.04
3	GUIDE	used	450234832	8.55	12281	0.086	-0.554	0.161	0.275	154.248271	46.789392	-449.11	1728.33
4	GUIDE	used	450237032	8.82	12277	0.203	0.276	0.181	0.304	154.666746	46.106846	-787.56	-914.58
5	GUIDE	used	450237264	9.82	12193	0.192	-0.219	0.314	0.581	153.971865	46.335625	-1865.74	669.31
6	GUIDE	used	450237528	9.31	12267	0.075	0.212	0.197	0.329	155.230965	45.962739	176.75	-2066.96
7	GUIDE	used	450238440	7.59	12283	-0.568	0.275	0.141	0.236	155.317530	46.245836	867.99	-1288.09

2.4 Star Slots

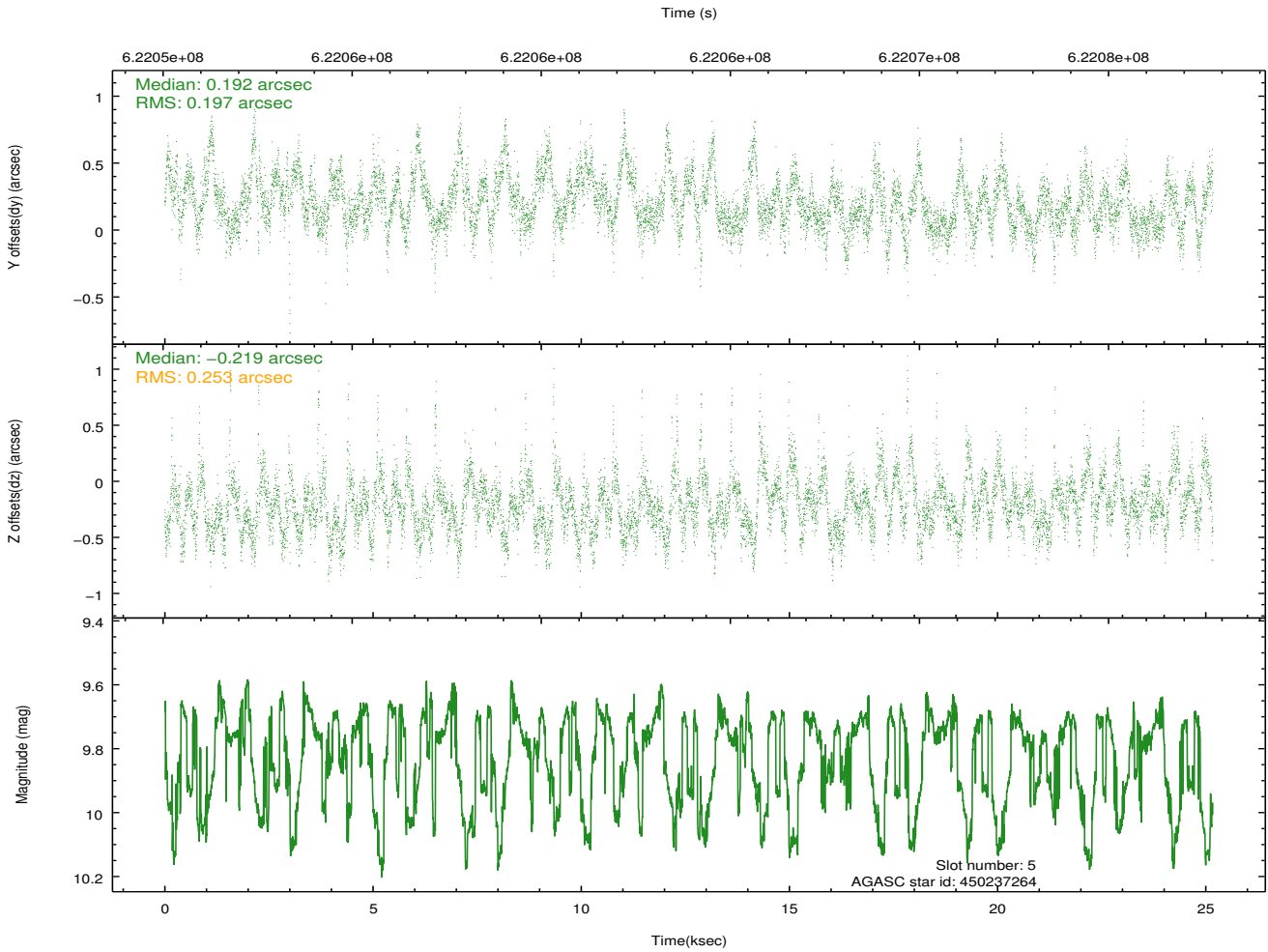
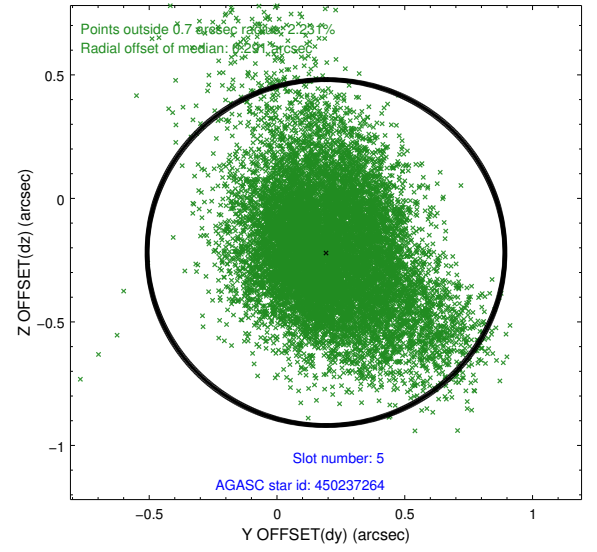
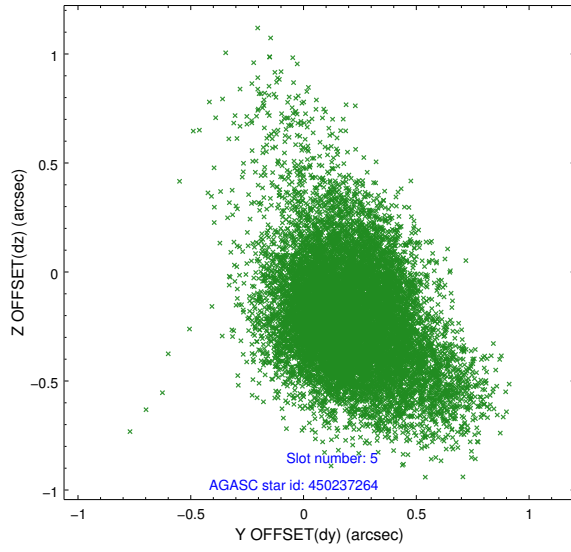
2.4.1 Slot 3



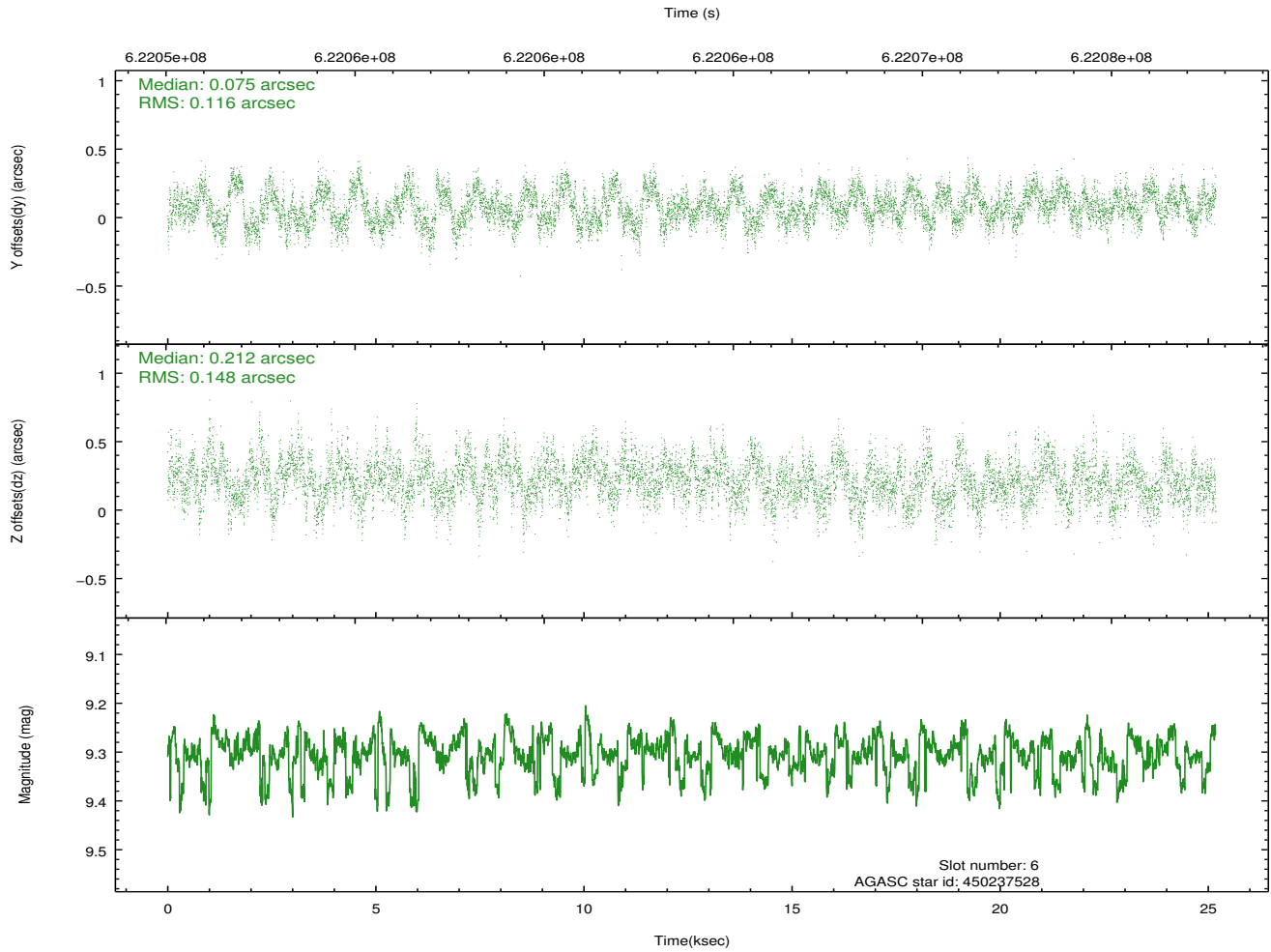
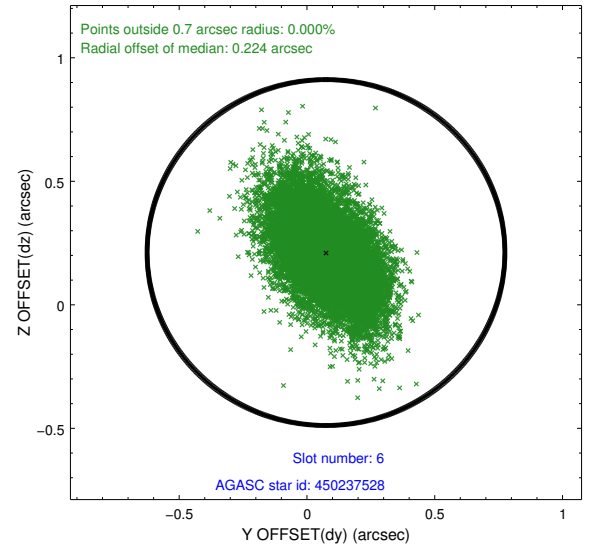
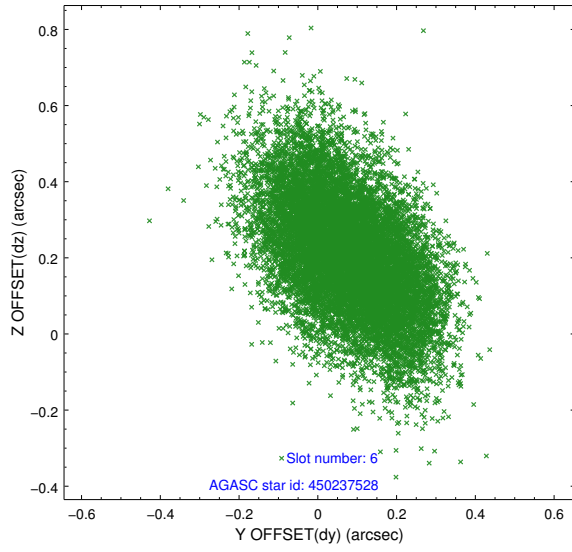
2.4.2 Slot 4



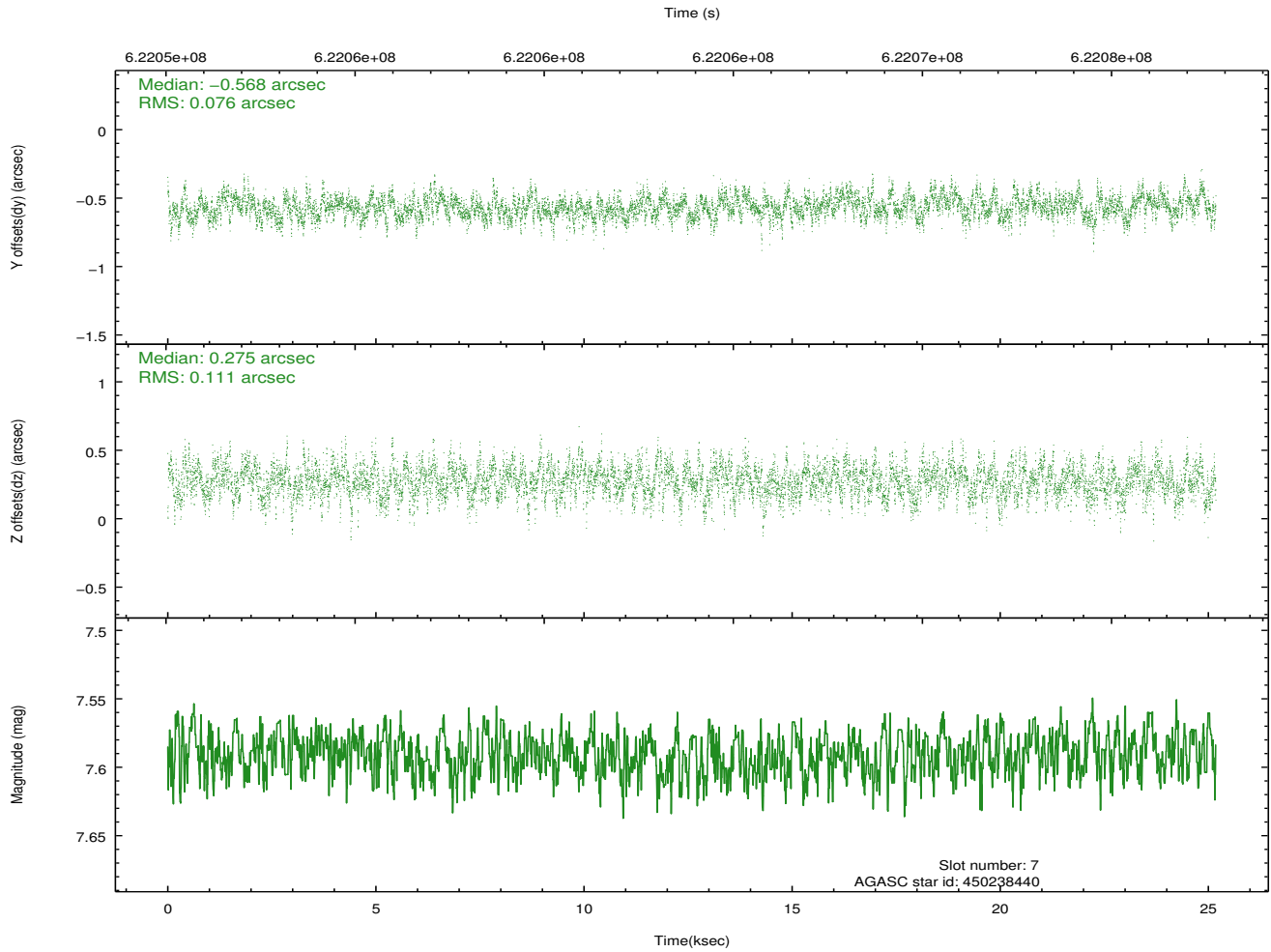
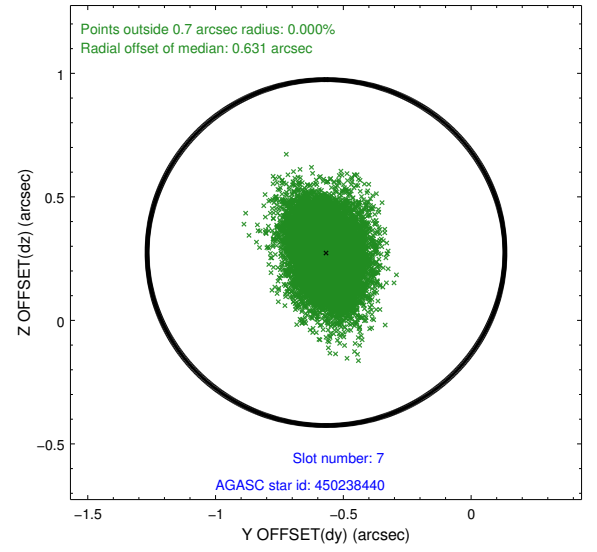
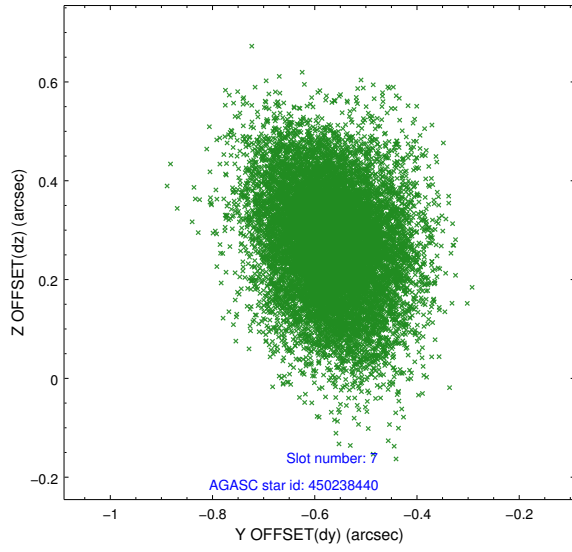
2.4.3 Slot 5



2.4.4 Slot 6

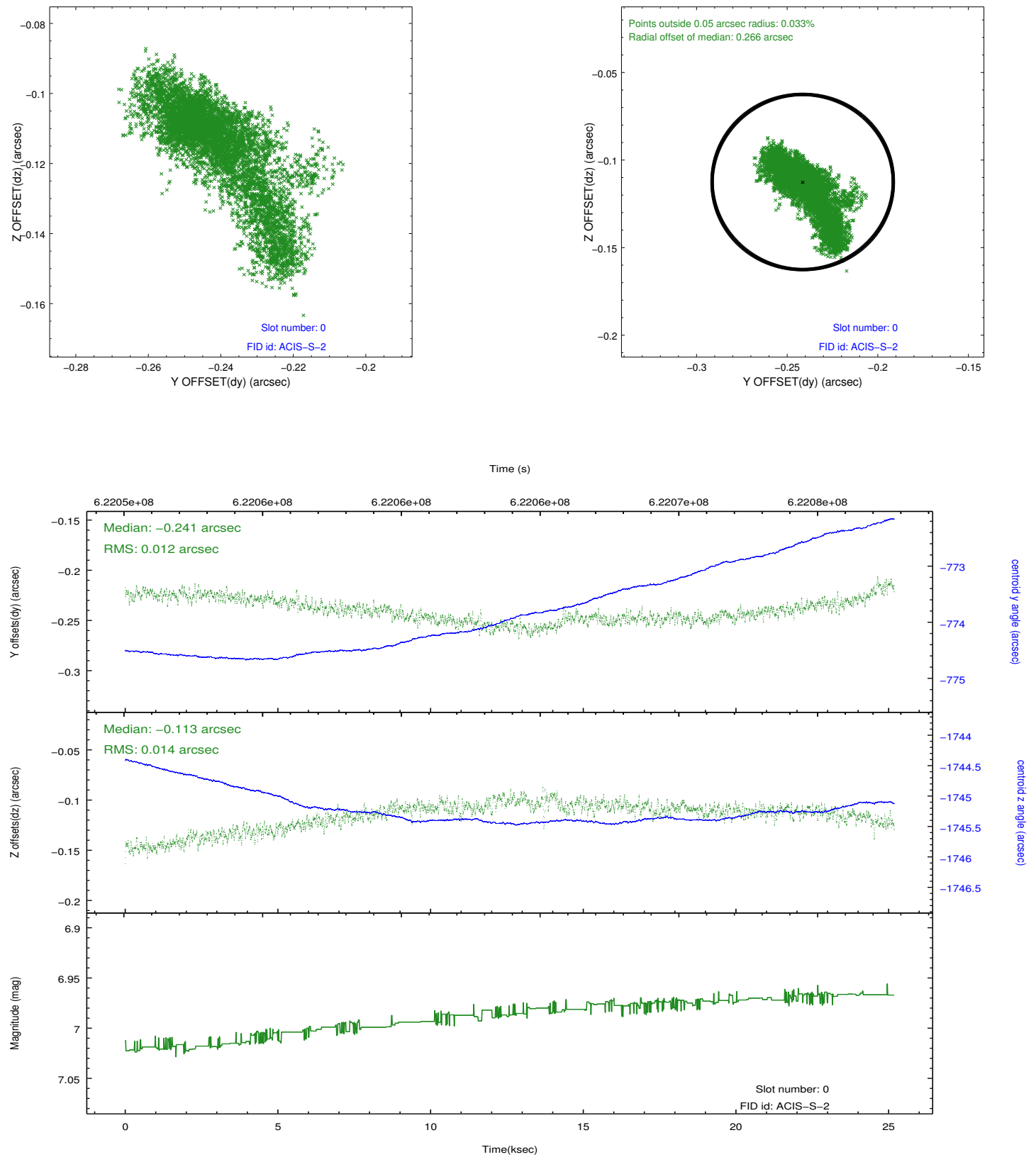


2.4.5 Slot 7

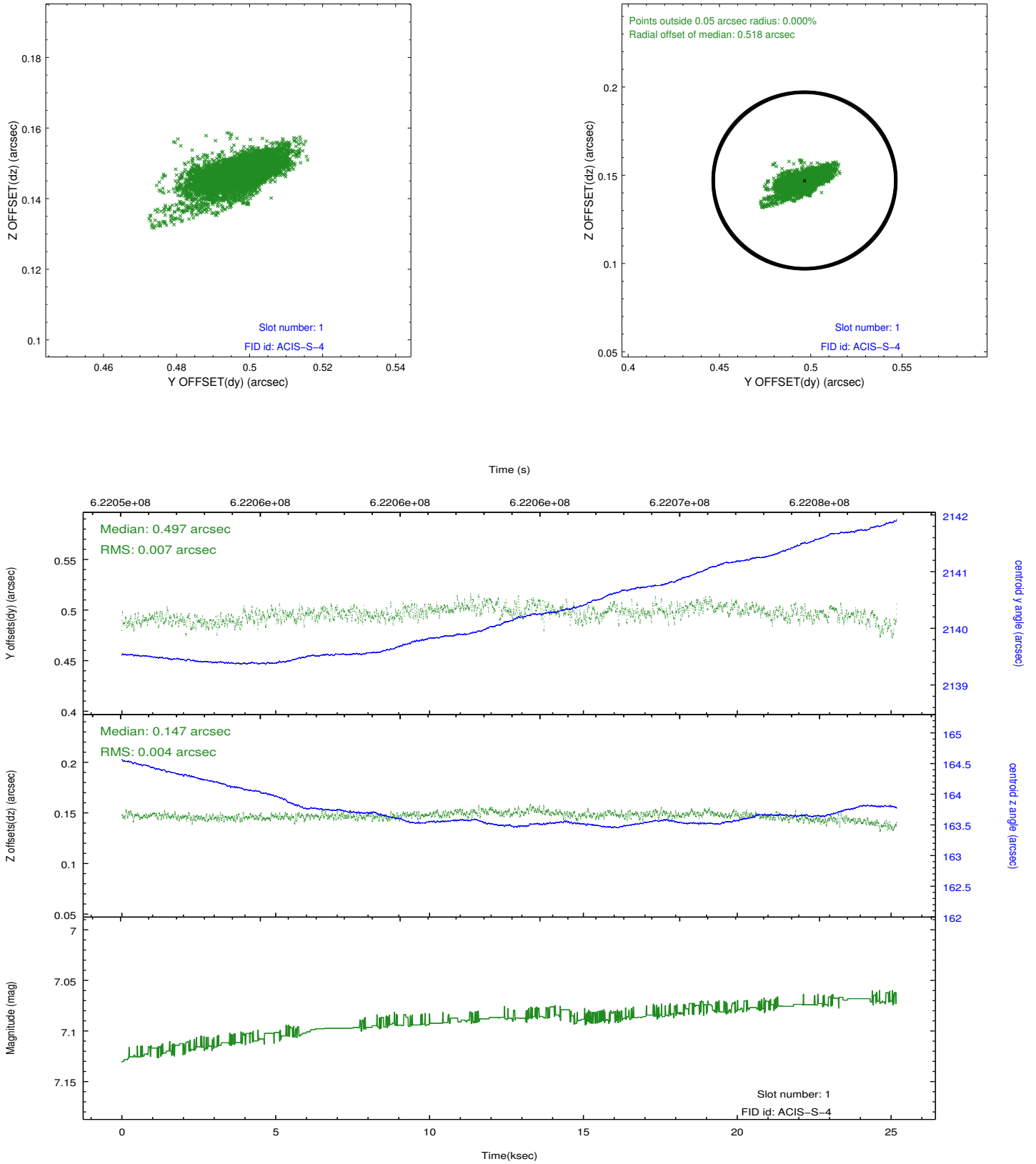


2.5 FID Slots

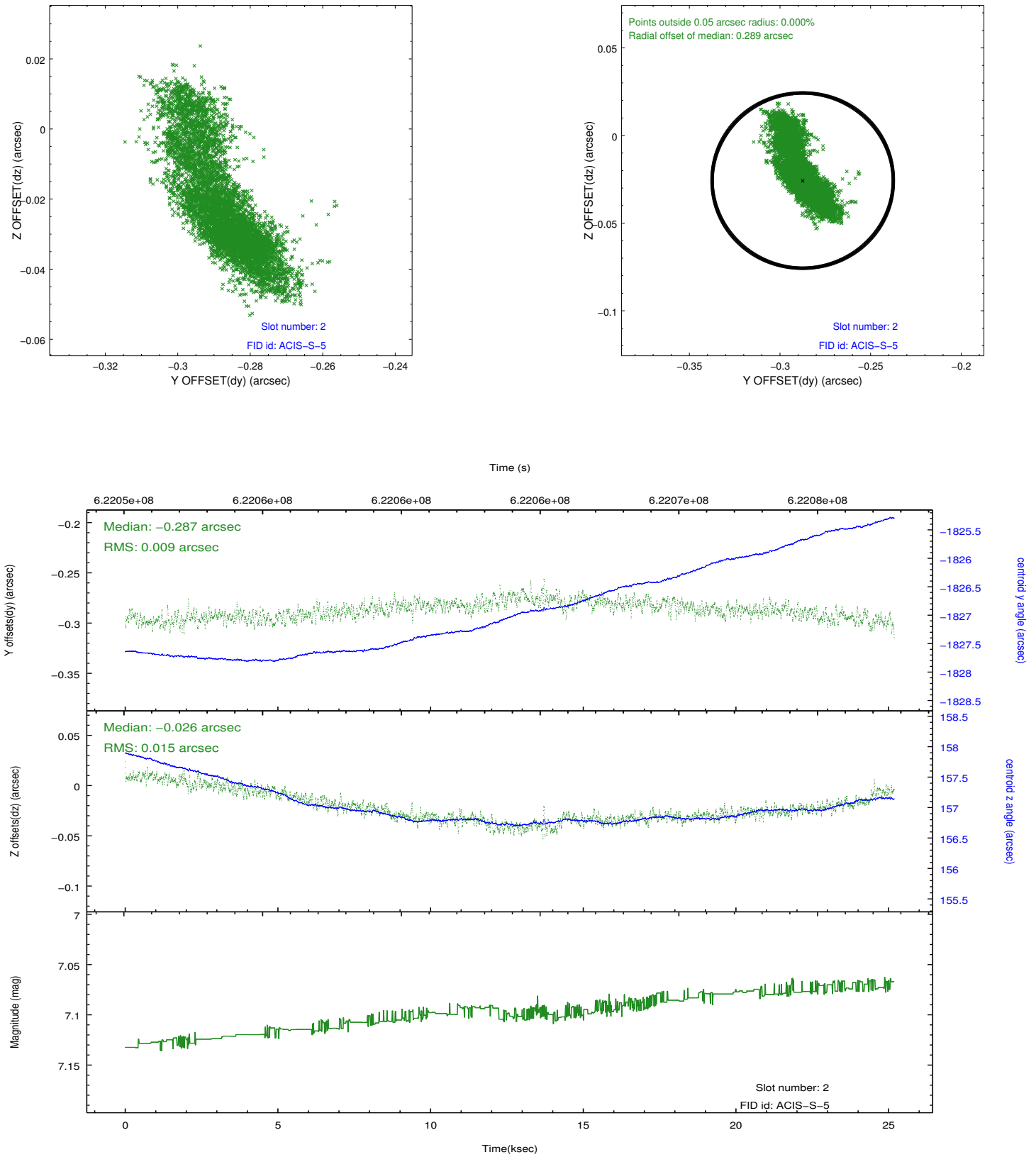
2.5.1 Slot 0



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)	2017.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.057300192833

A.2 Comments