

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22159 - L2 Version 1
Chandra X-Ray Center

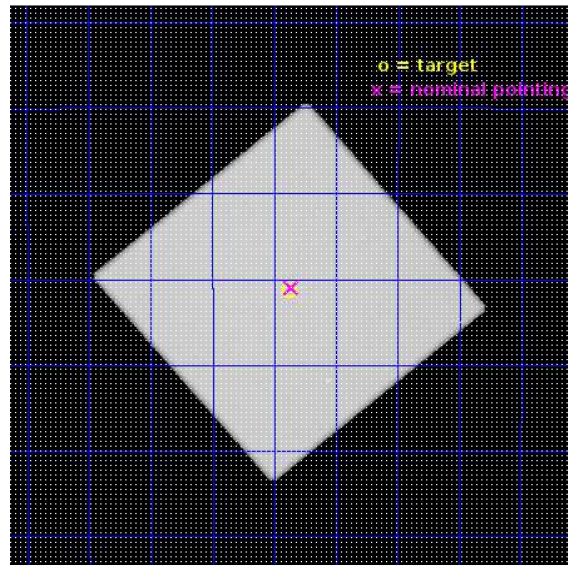
L2 Processing Date : May 29 2019

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	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

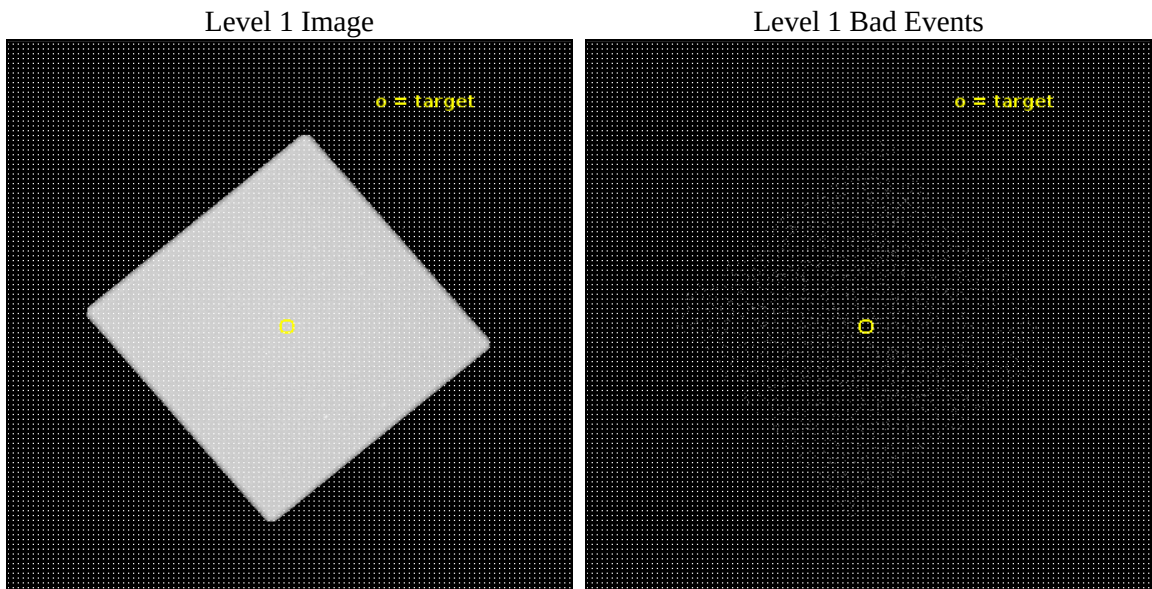
seq_num	100182	Sequence number
obs_id	22159	Observation id
title	Chandra-HRC Support for Juno-UVS on Attitude Adjustment Perijoves	
observer	George Gladstone	Principal investigator
object	Jupiter	Source name
ra_targ	259.969441	Observer's specified target RA [deg]
dec_targ	-22.521034	Observer's specified target Dec [deg]
ra_nom	259.9651335397	Nominal RA [deg]
dec_nom	-22.516354207718	Nominal Dec [deg]
roll_nom	94.902863093587	Nominal Roll [deg]
revision	1	Processing version of data
ontime	36101.783413529	[s]
livetime	35225.910542269	Ontime multiplied by DTCOR
l2events	4309872	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	36000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	36101.783413529	[s]
caldbver	4.8.3	 	l1events	5833609	Number of level 1 events
date	2019-05-29T23:24:28	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

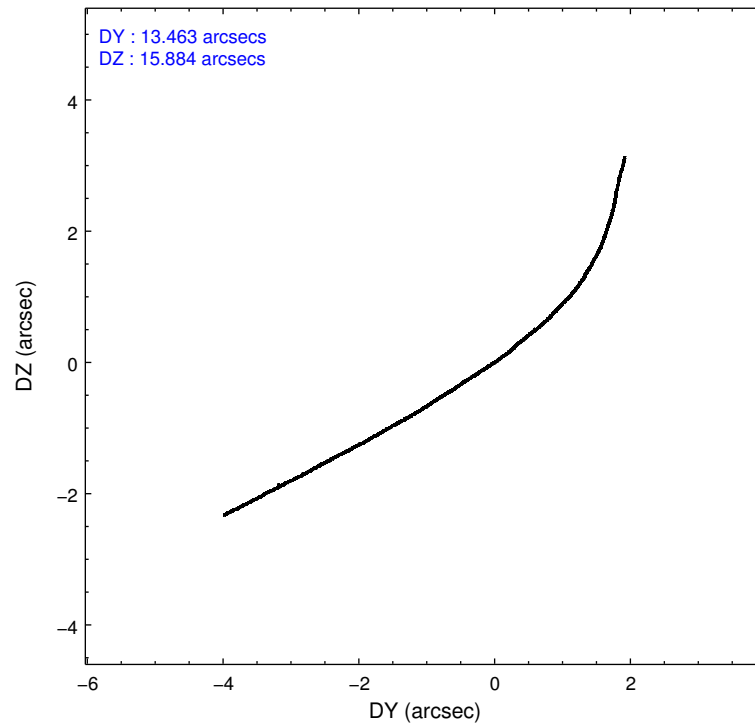
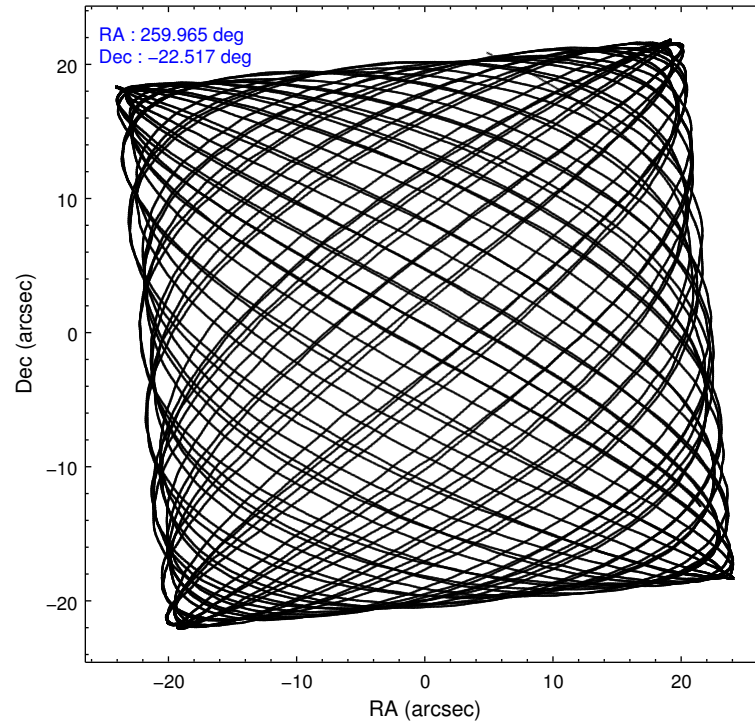
Level 1 Events

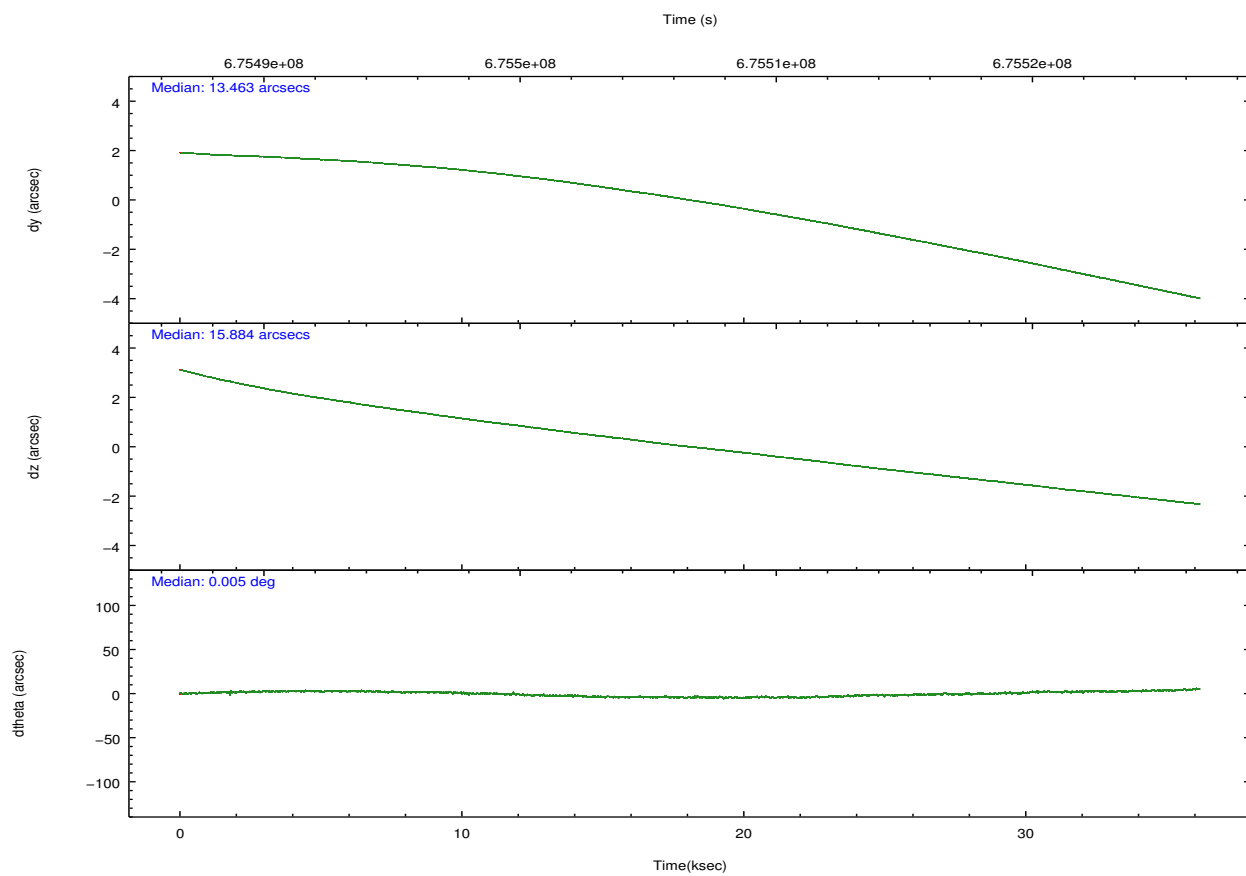
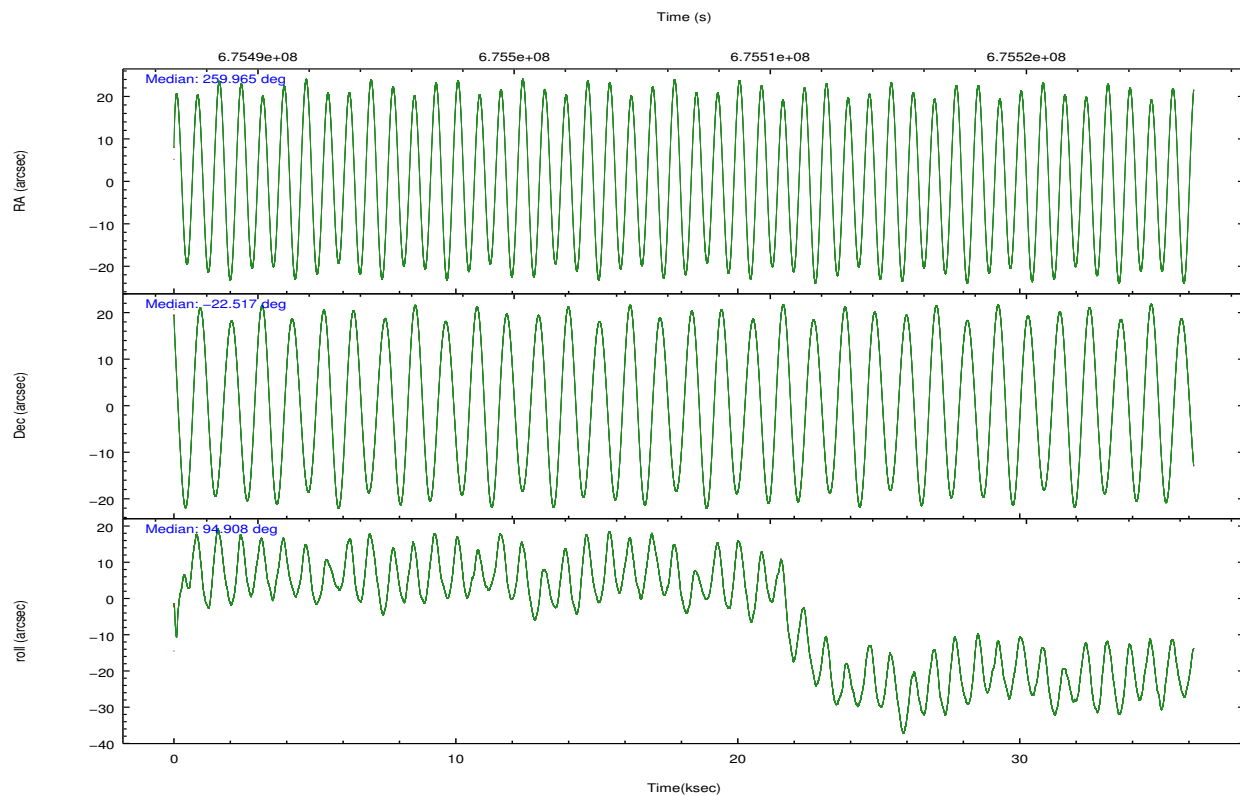
	segment 0
level 1 events	5833609
rejected events	155530
rejected %	2%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	259.982589	259.9651335397043			
[deg] Pointing Dec	-22.538392	-22.51635420771836			
[deg] Pointing Roll	95.005032	94.9028630935875			
[s] Window start time (MET)	675488709.184000	675488709.184000			
[s] Window stop time (MET)	675524709.184000	675524709.184000			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	675488708.184000	675487655.42772			
Observation start date	2019-05-29T03:43:59	2019-05-29T03:27:35			
[s] Observation end time (MET)	675524708.184000	675525830.53001			
Observation end date	2019-05-29T13:43:59	2019-05-29T14:03:50			

2.3 Aspect



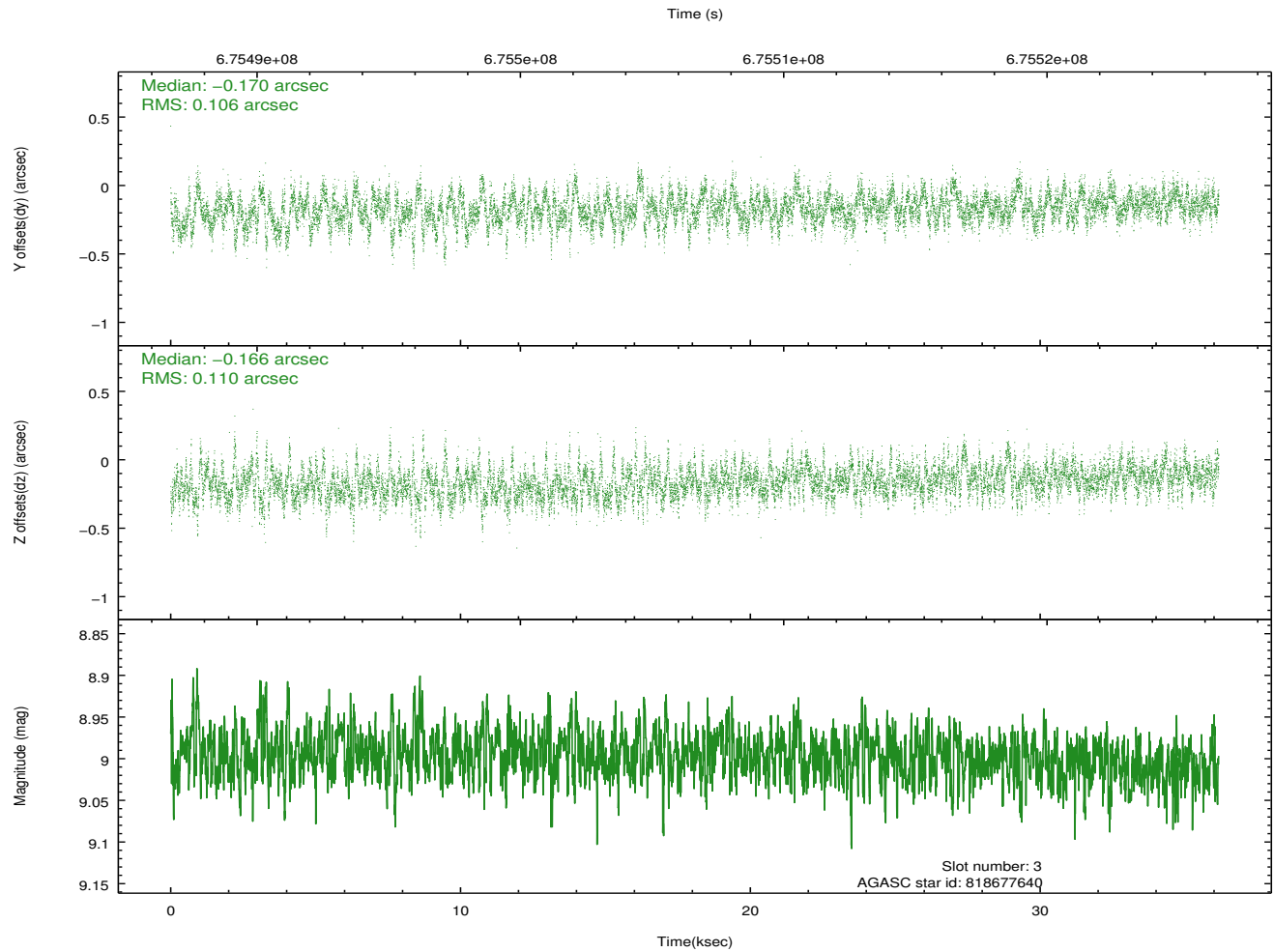
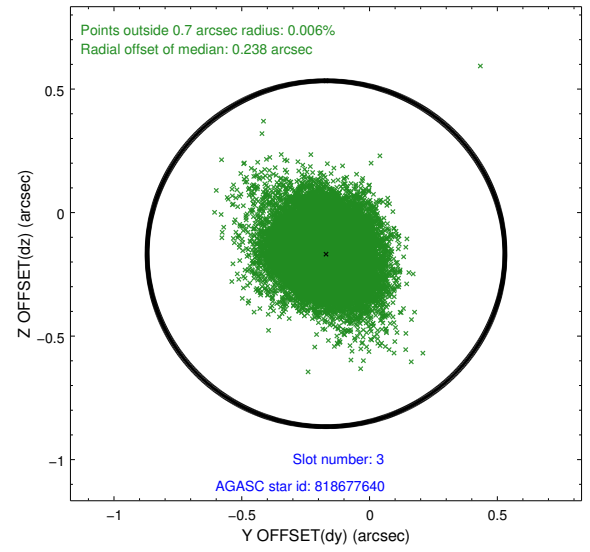
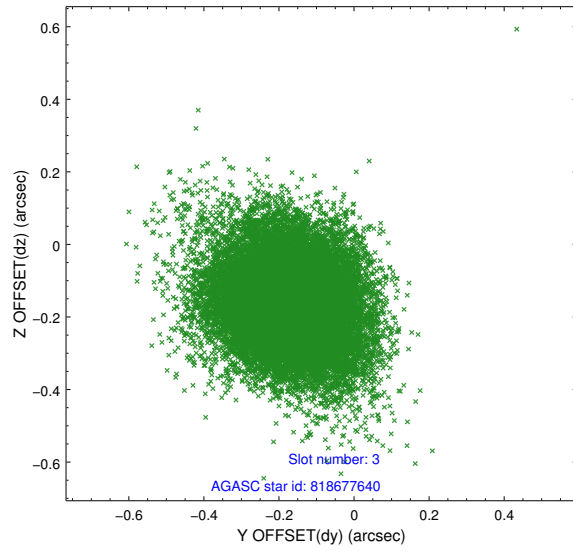


Slot Statistics

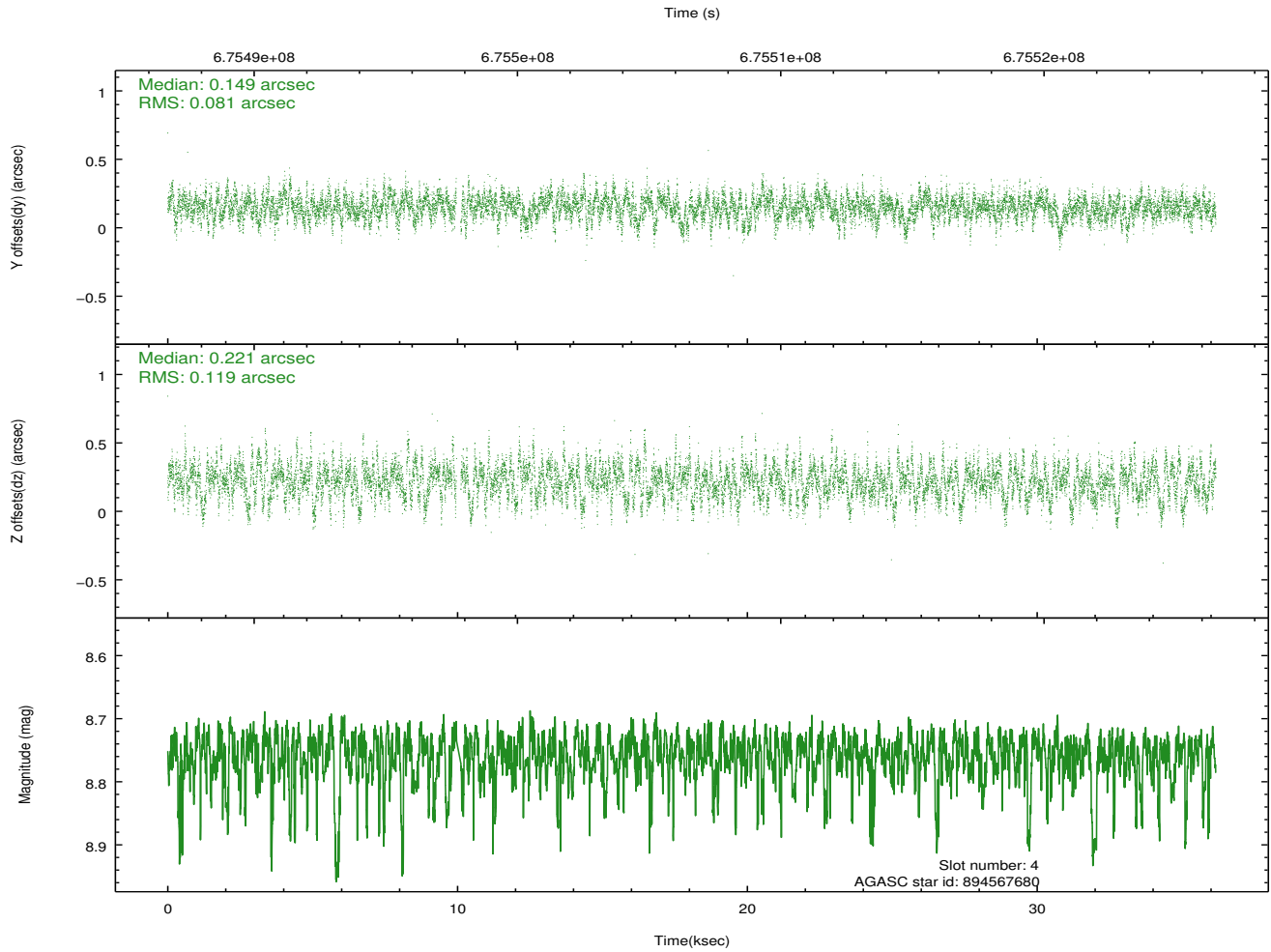
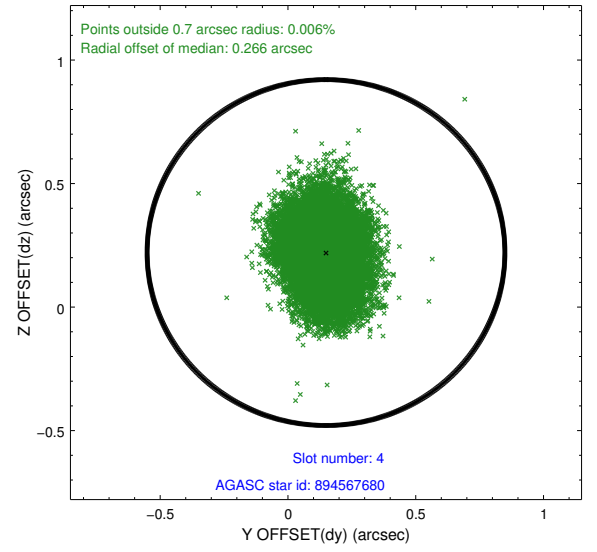
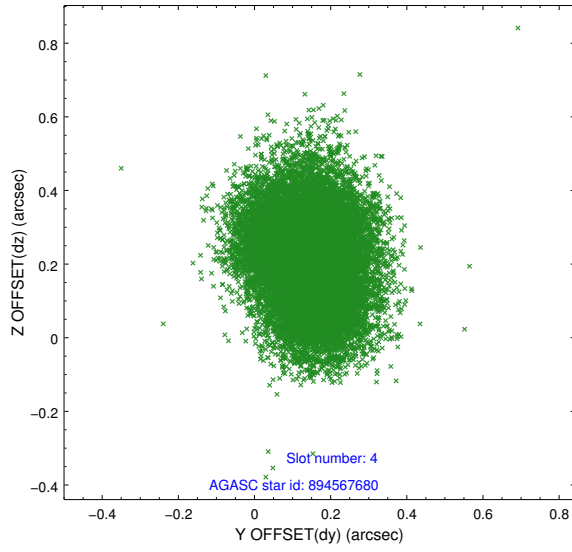
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-2	7.07	8822	1.000	0.080	-0.157	0.031	0.043	0.000000	0.000000	843.94	-1305
1	FID		HRC-I-3	7.13	8822	1.000	-0.402	0.033	0.025	0.039	0.000000	0.000000	-1197.69	1000
2	FID		HRC-I-4	7.06	8821	1.000	0.434	0.048	0.035	0.046	0.000000	0.000000	1274.20	998
3	GUIDE	used	818677640	9.00	17619	1.000	-0.170	-0.166	0.161	0.263	260.022005	-22.132387	1444.83	-258
4	GUIDE	used	894567680	8.76	17552	1.000	0.149	0.221	0.152	0.251	260.381715	-22.925926	-1506.88	-1195
5	GUIDE	used	894567840	8.24	17637	1.000	0.244	0.078	0.136	0.225	260.453846	-22.751504	-903.81	-1490
6	GUIDE	used	894568488	8.21	17626	1.000	0.254	0.388	0.127	0.213	260.726703	-22.581162	-374.82	-2449
7	GUIDE	used	818554408	9.02	17617	1.000	-0.469	-0.510	0.183	0.299	259.815745	-22.246029	1096.89	461

2.4 Star Slots

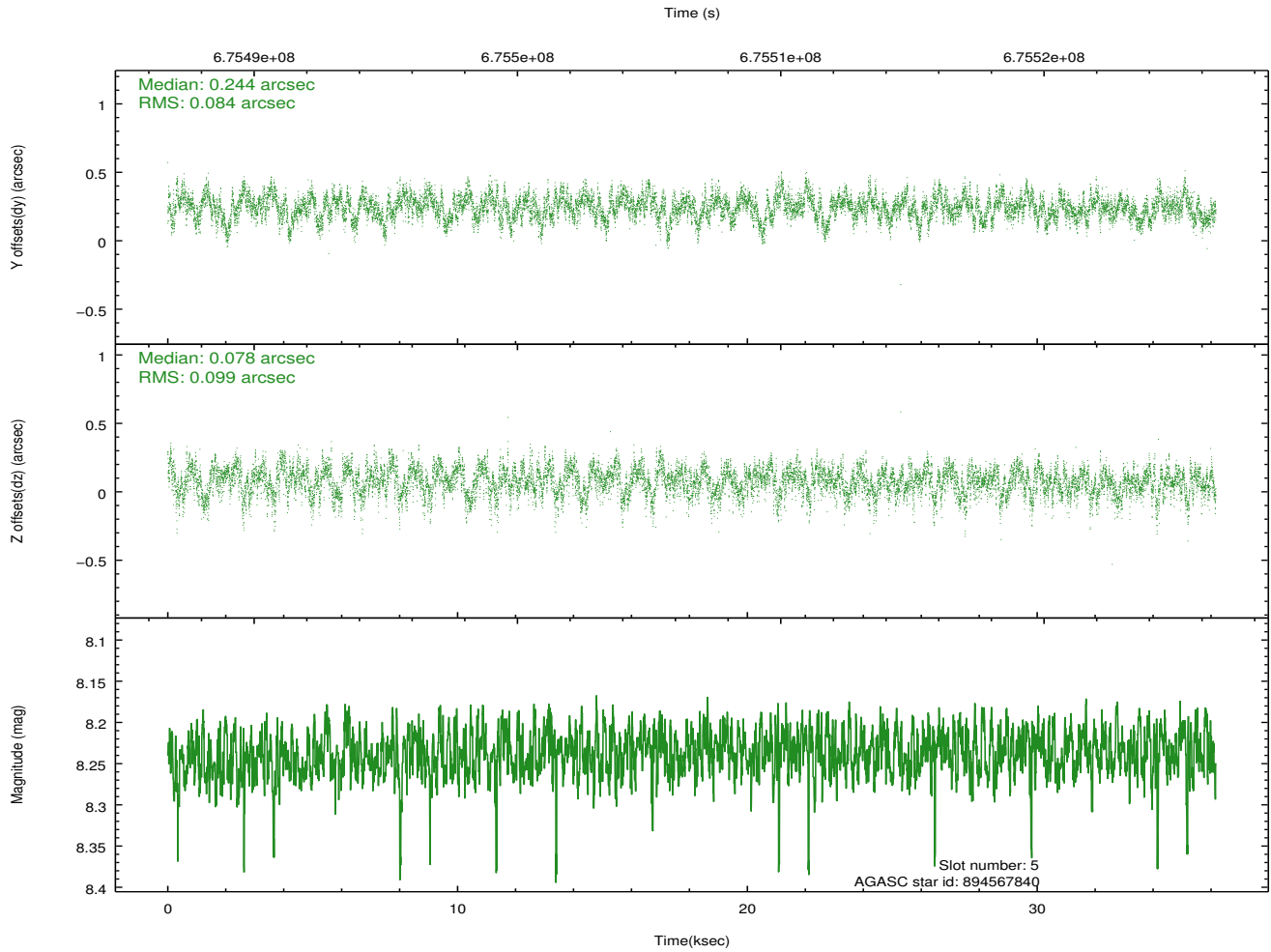
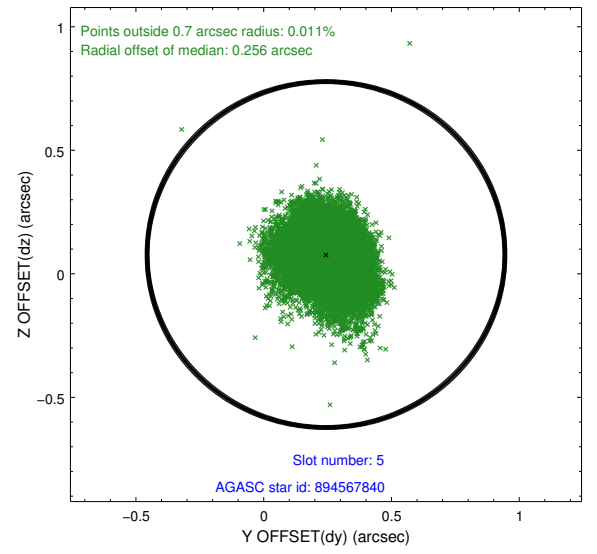
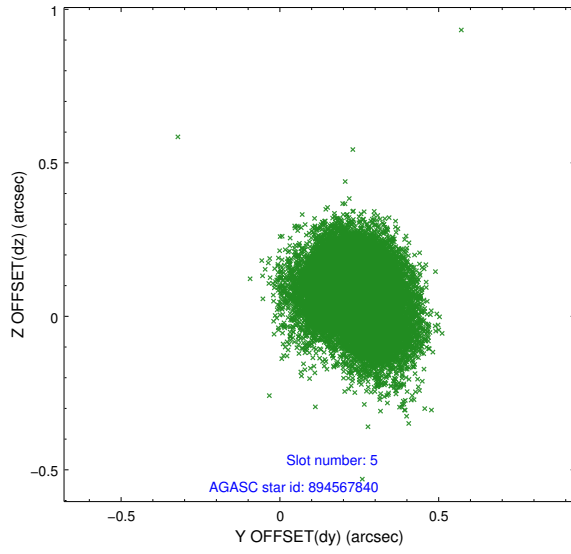
2.4.1 Slot 3



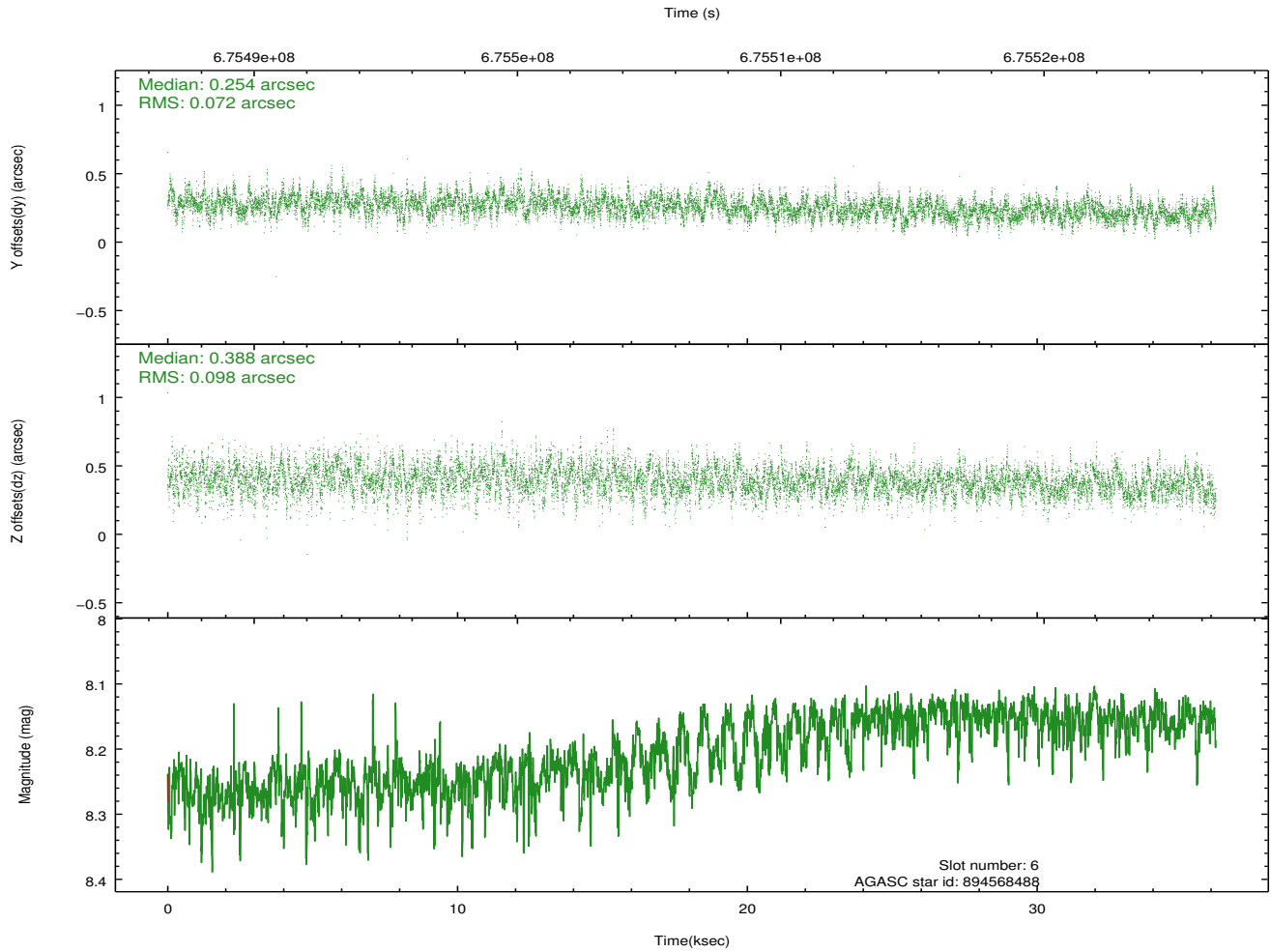
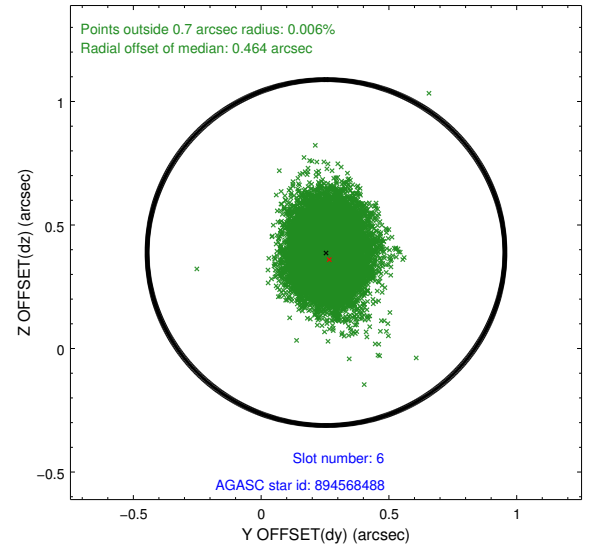
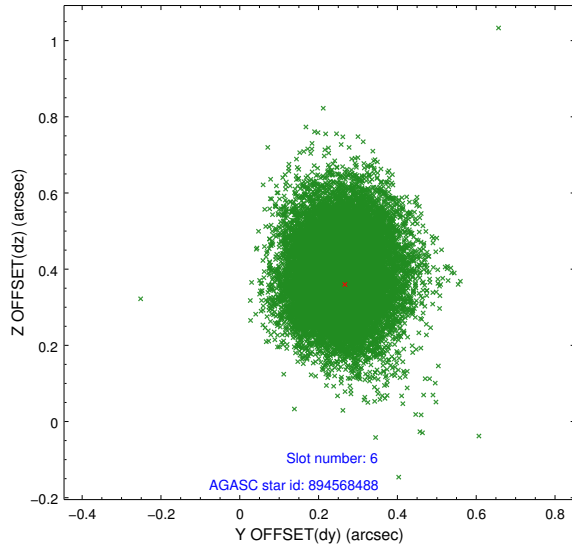
2.4.2 Slot 4



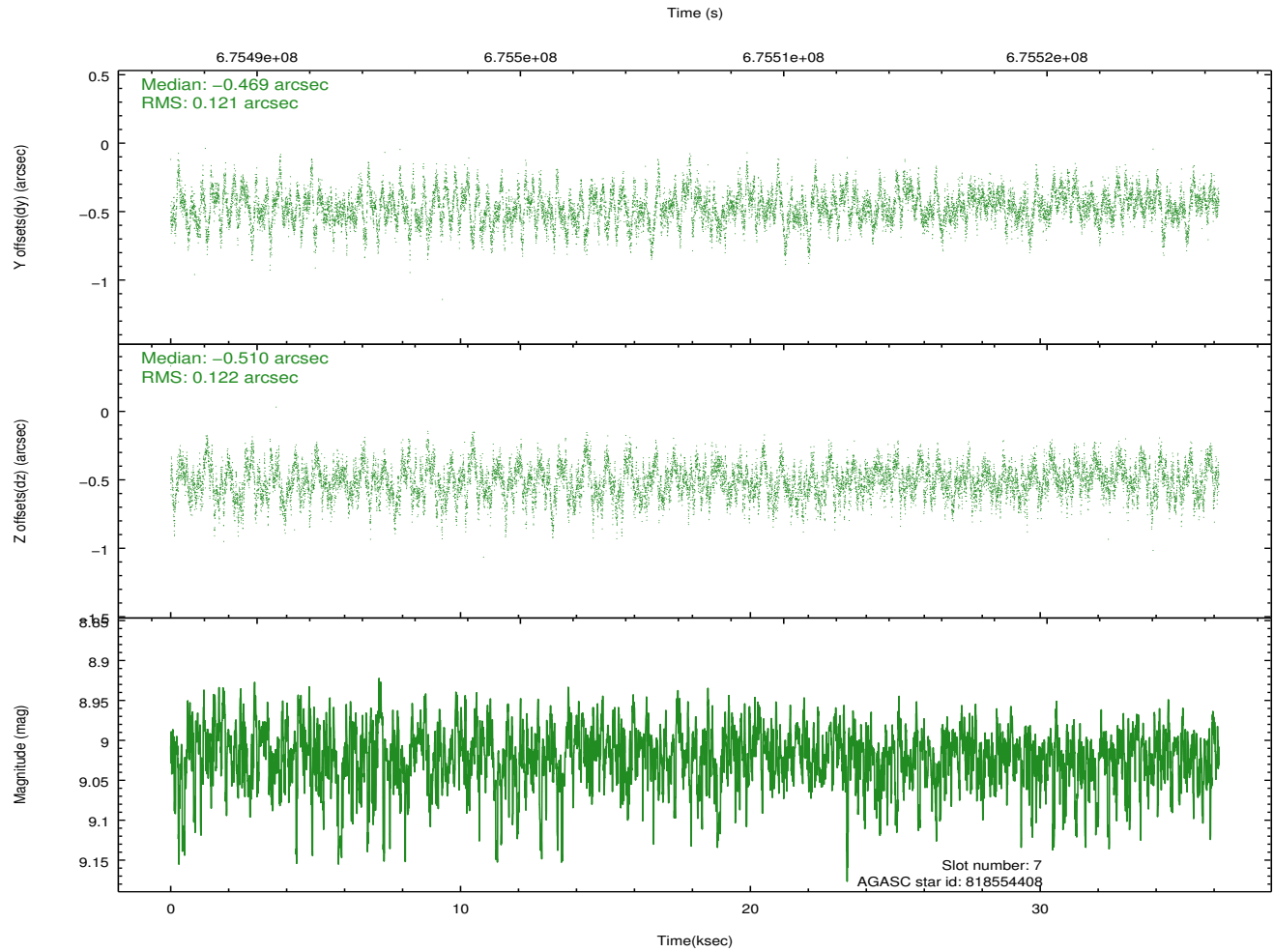
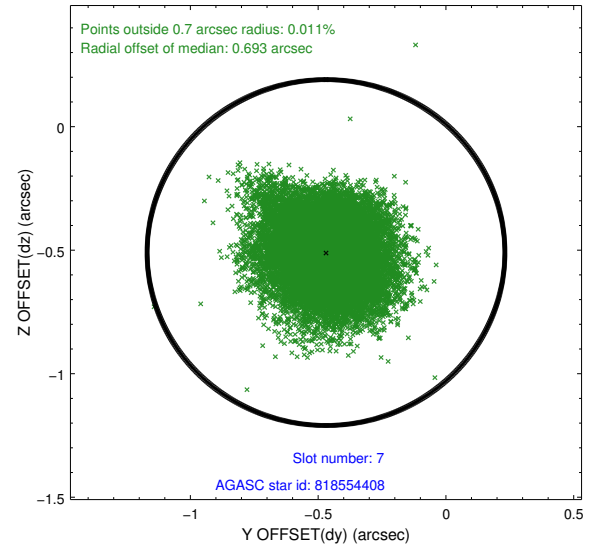
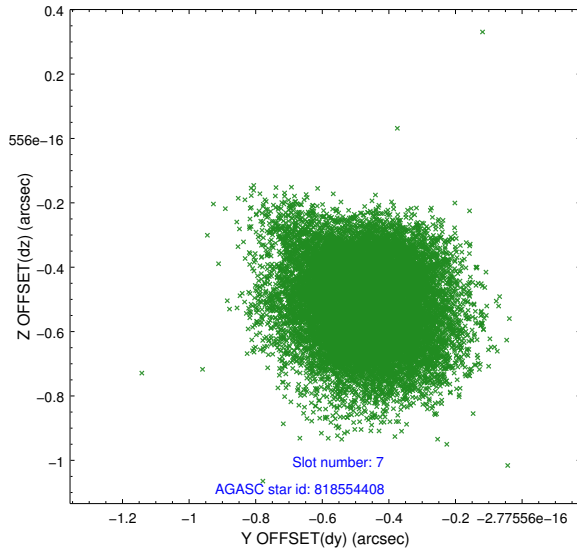
2.4.3 Slot 5



2.4.4 Slot 6

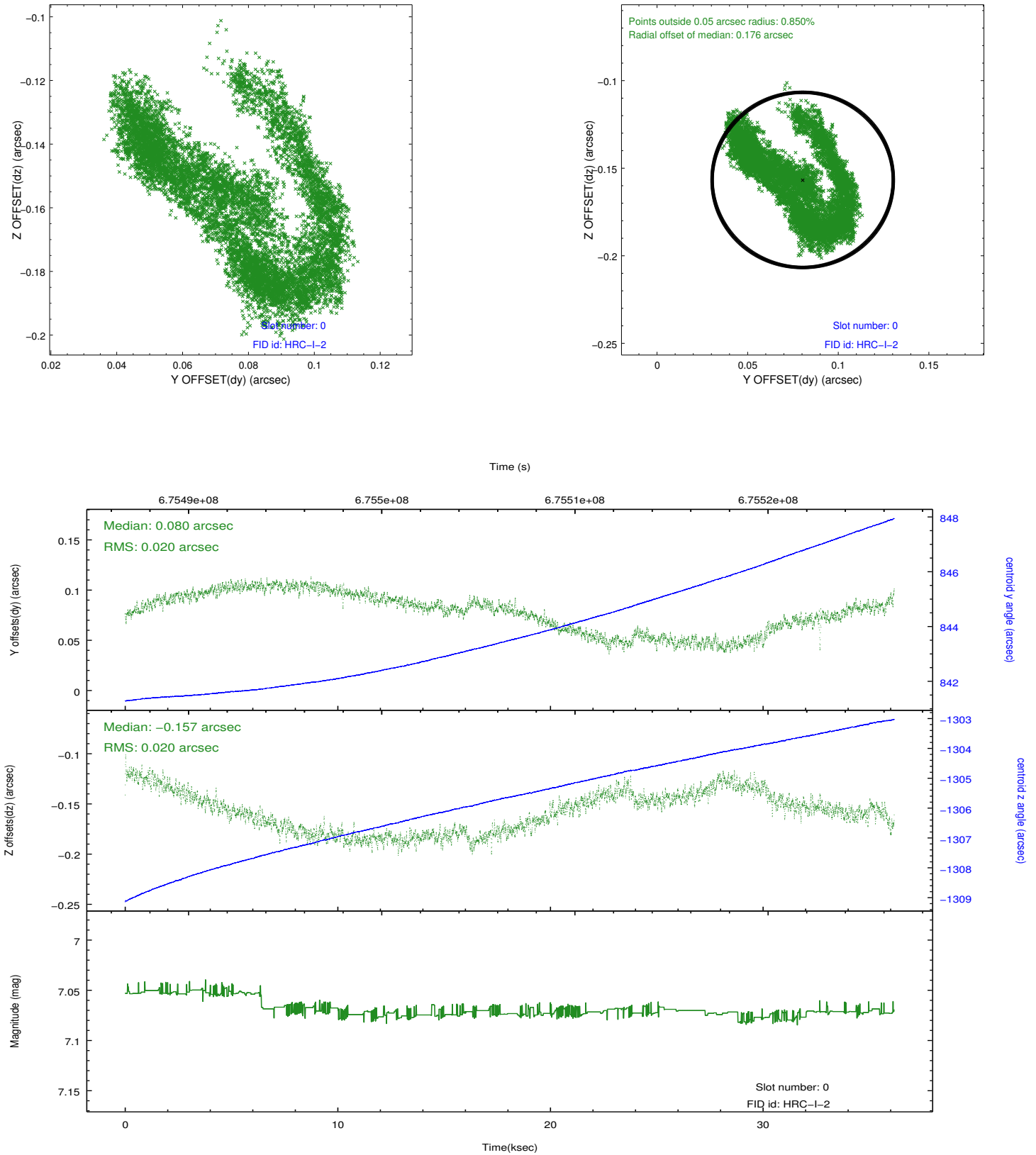


2.4.5 Slot 7

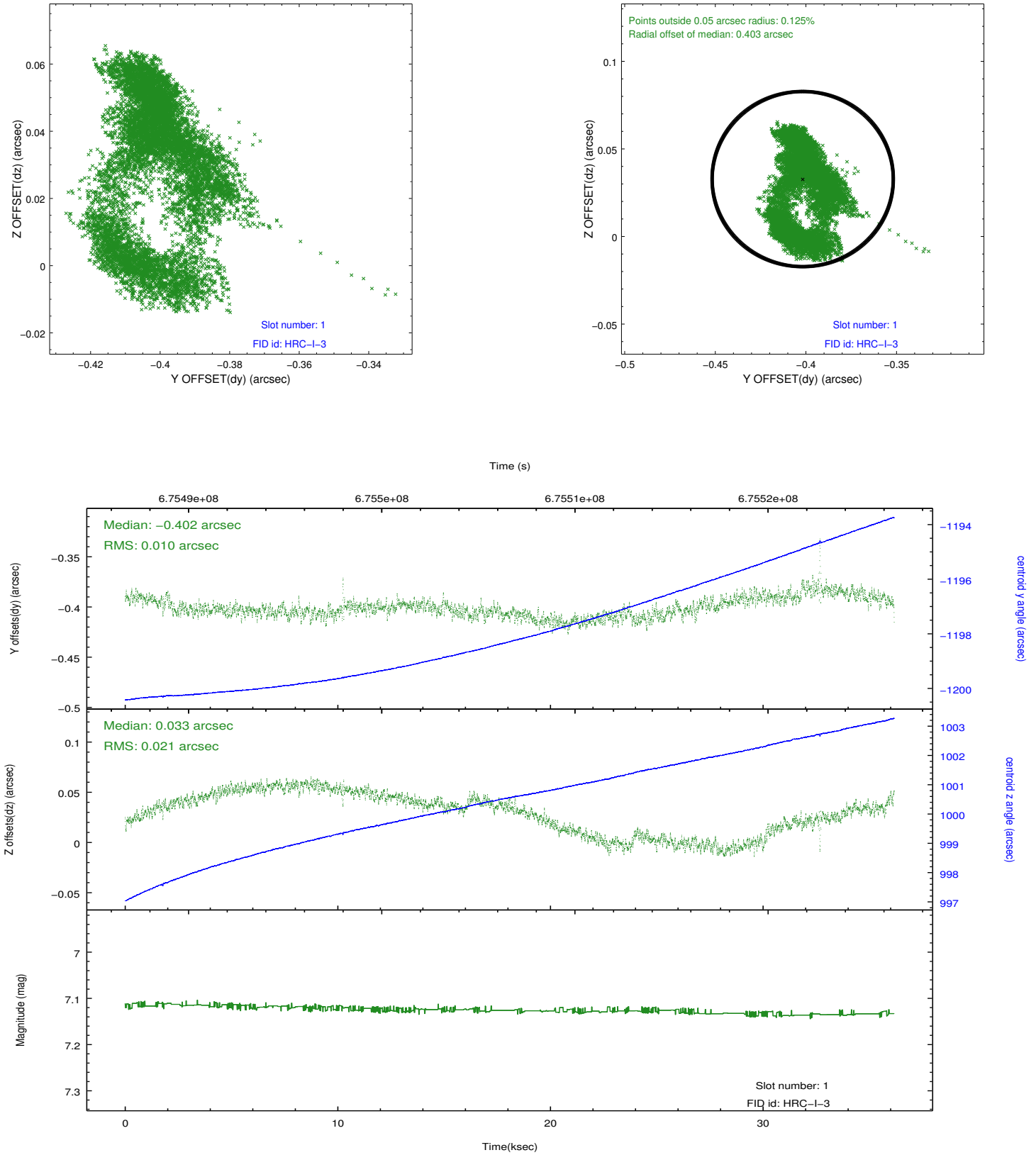


2.5 FID Slots

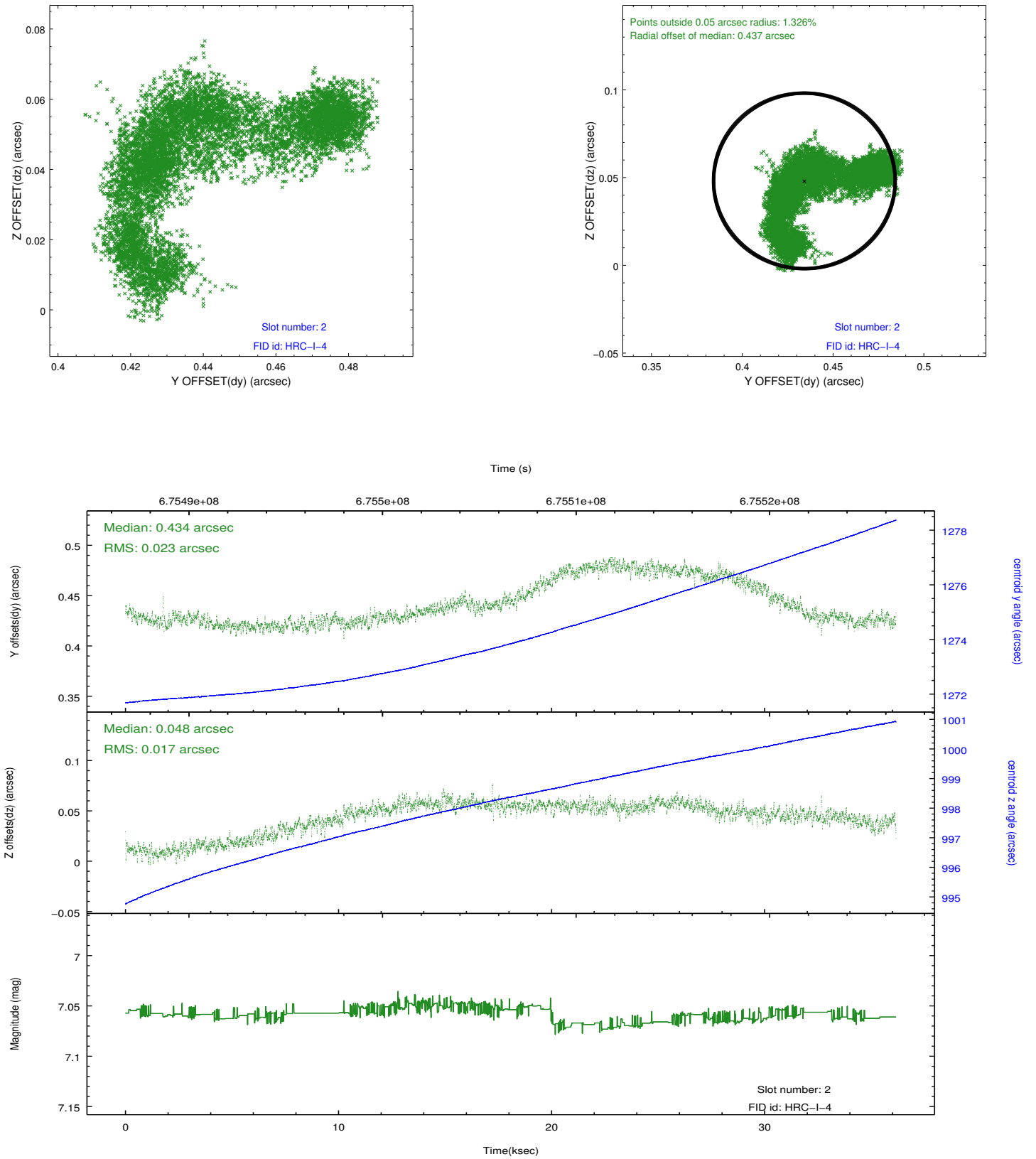
2.5.1 Slot 0



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)	2019.05.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.101783413529

A.2 Comments

This is a moving target. Users will need to run sso_freeze or similar software to position the events in the reference frame of the target.

====

WARNING: Due to corruption of the secondary science data during this observation, some instrument parameters have bogus values. The data in this observation have been inspected by the HRC team. PLEASE NOTE: All the event data in this observation are good. The short gaps in the GTI intervals can be eliminated (i.e., use the first START and last STOP). THE DTF values during this observation can be estimated by dropping all the low values and averaging the remaining values near 1.0.