

# V&V Reference Report

## L2 ASCDS Version : 10.7.1

Observation 21572 - L2 Version 1  
Chandra X-Ray Center

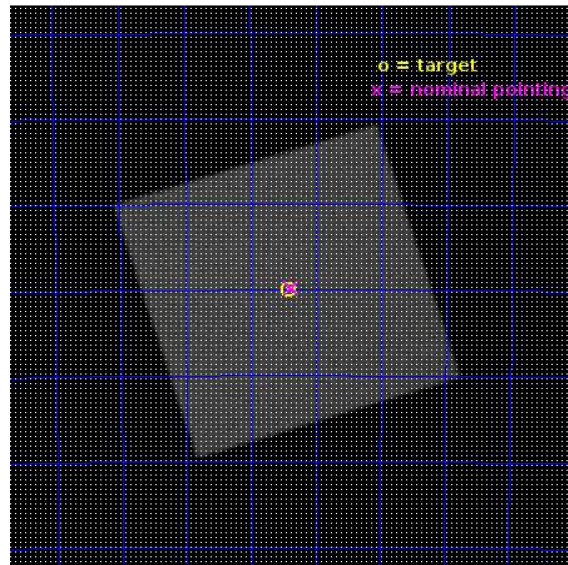
L2 Processing Date : Dec 20 2018

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# 1 Front

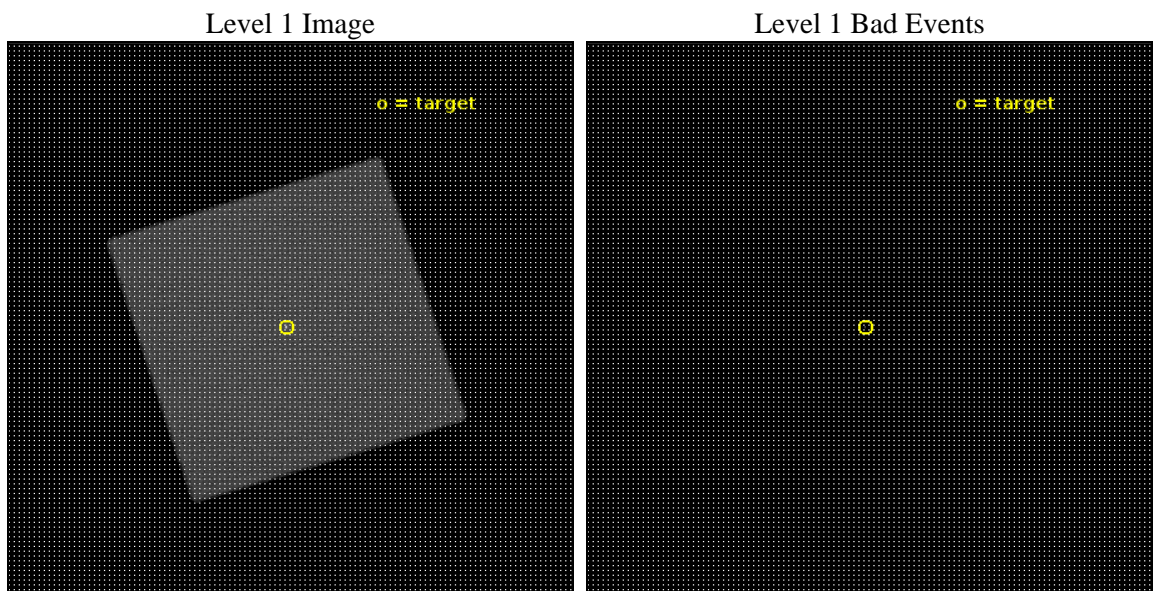
seq_num	201249	Sequence number
obs_id	21572	Observation id
title	Stellar X-ray Cycles: the Shape of Things to Come	Proposal title
observer	Thomas Ayres	Principal investigator
object	ALPHA CEN	Source name
ra_targ	219.85625	Observer's specified target RA [deg]
dec_targ	-60.832167	Observer's specified target Dec [deg]
ra_nom	219.84410026733	Nominal RA [deg]
dec_nom	-60.829136392383	Nominal Dec [deg]
roll_nom	117.37816930084	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5185.7315593958	[s]
livetime	5109.009980821	Ontime multiplied by DTCOR
l2events	652886	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	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	5185.7315593958	[s]
caldsver	4.8.2	&#160	l1events	971077	Number of level 1 events
date	2018-12-20T05:27:33	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

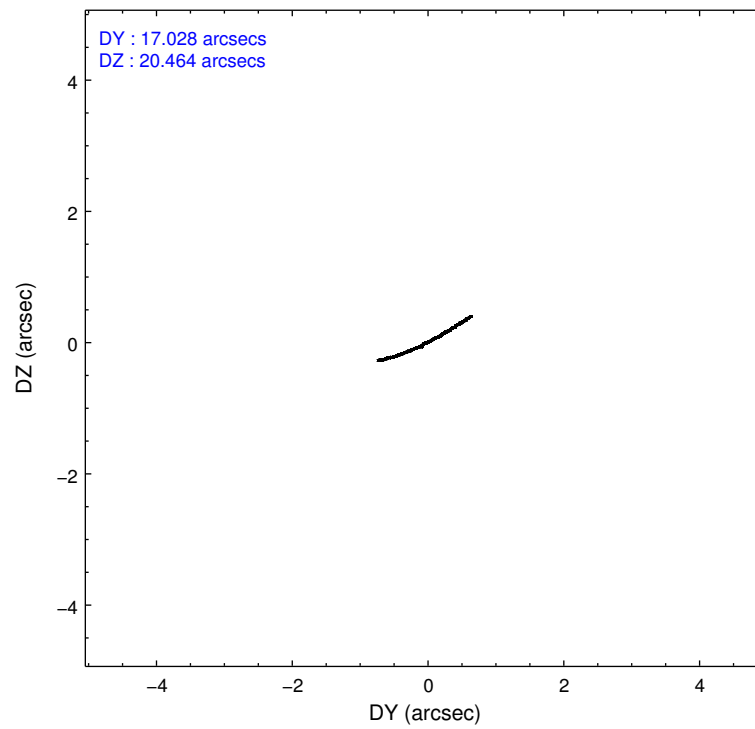
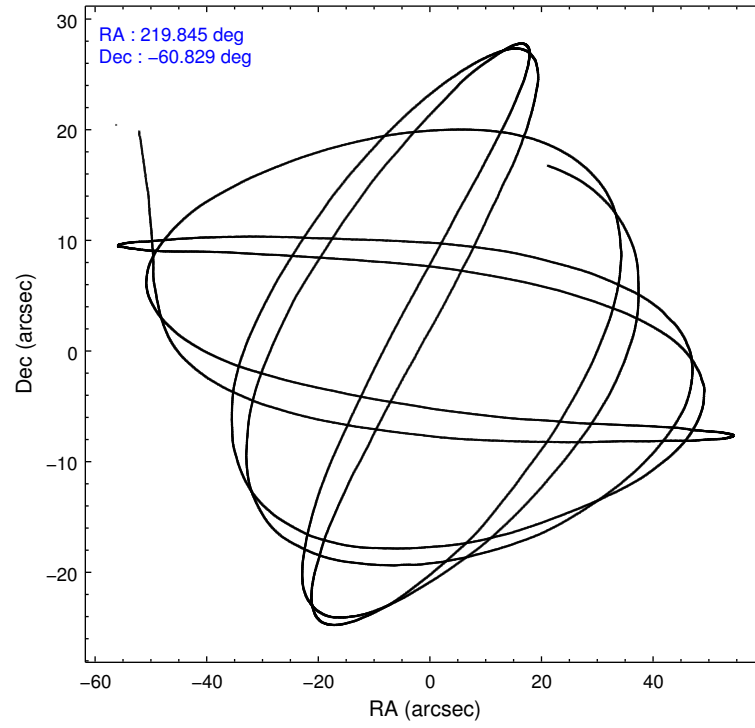
	<b>segment 0</b>
level 1 events	971077
rejected events	119376
rejected %	12%

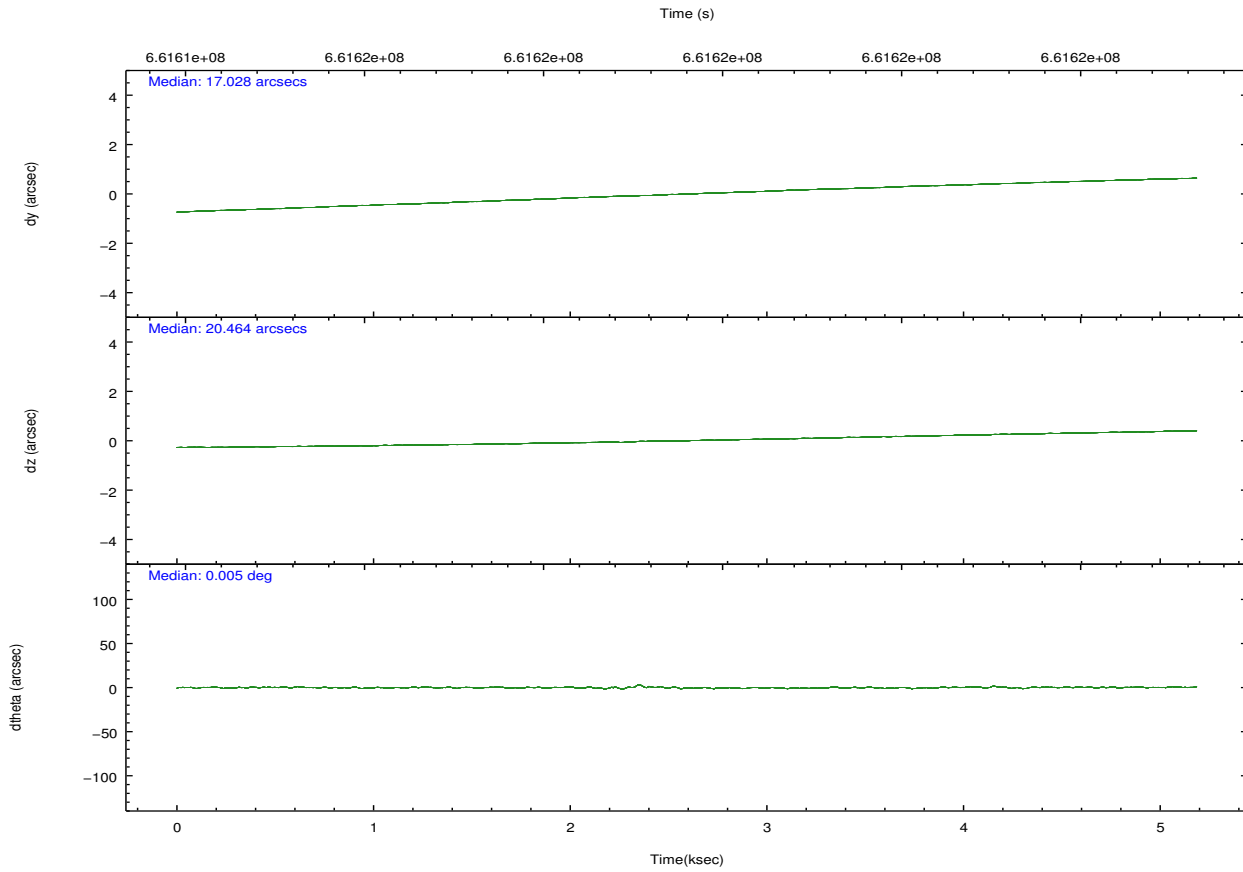
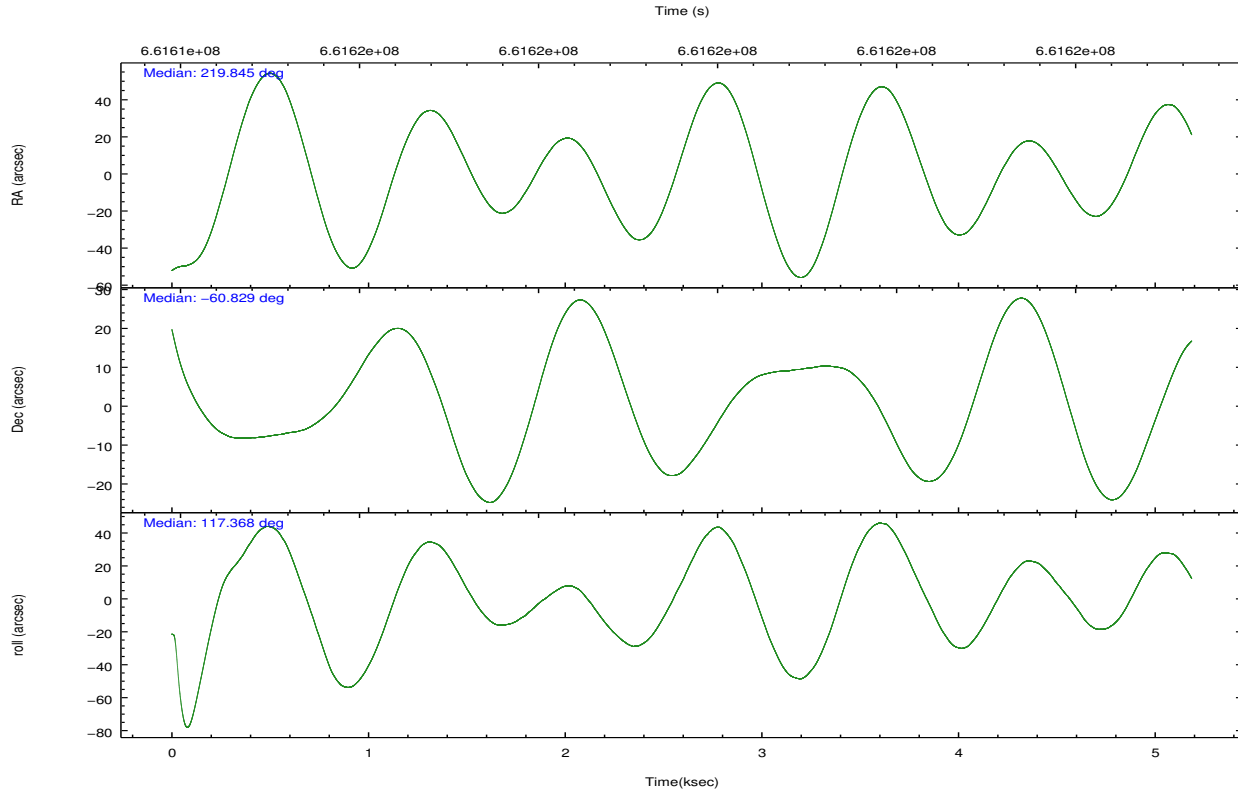


## 2.2 Compared Parameters

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	219.891868	219.8441002673329			
[deg] Pointing Dec	-60.843126	-60.82913639238316			
[deg] Pointing Roll	117.515200	117.378169300839			
[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)	661614394.184000	661613495.47306			
Observation start date	2018-12-19T13:45:25	2018-12-19T13:31:35			
[s] Observation end time (MET)	661619394.184000	661620485.46097			
Observation end date	2018-12-19T15:08:45	2018-12-19T15:28:05			

## 2.3 Aspect



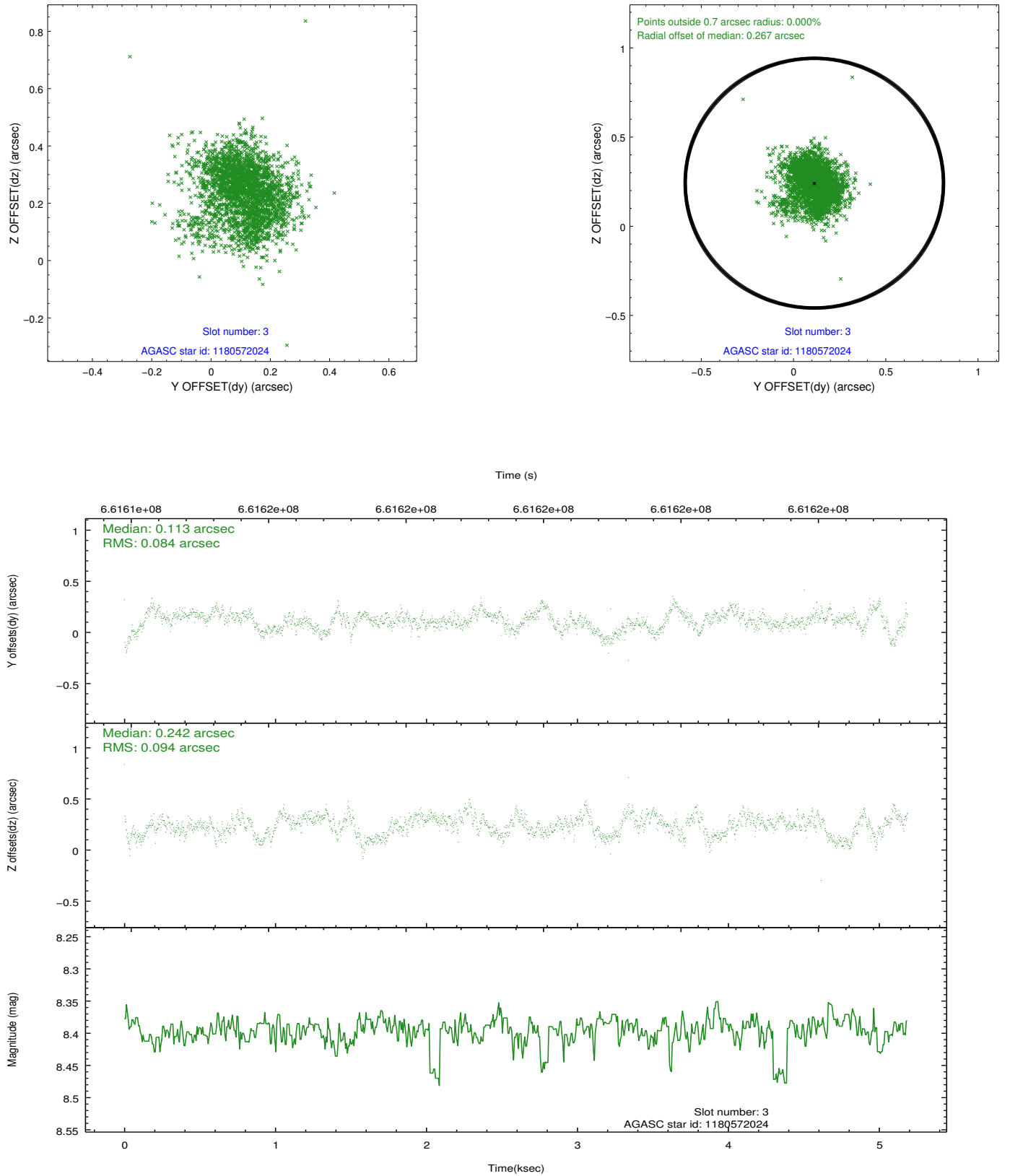


Slot Statistics

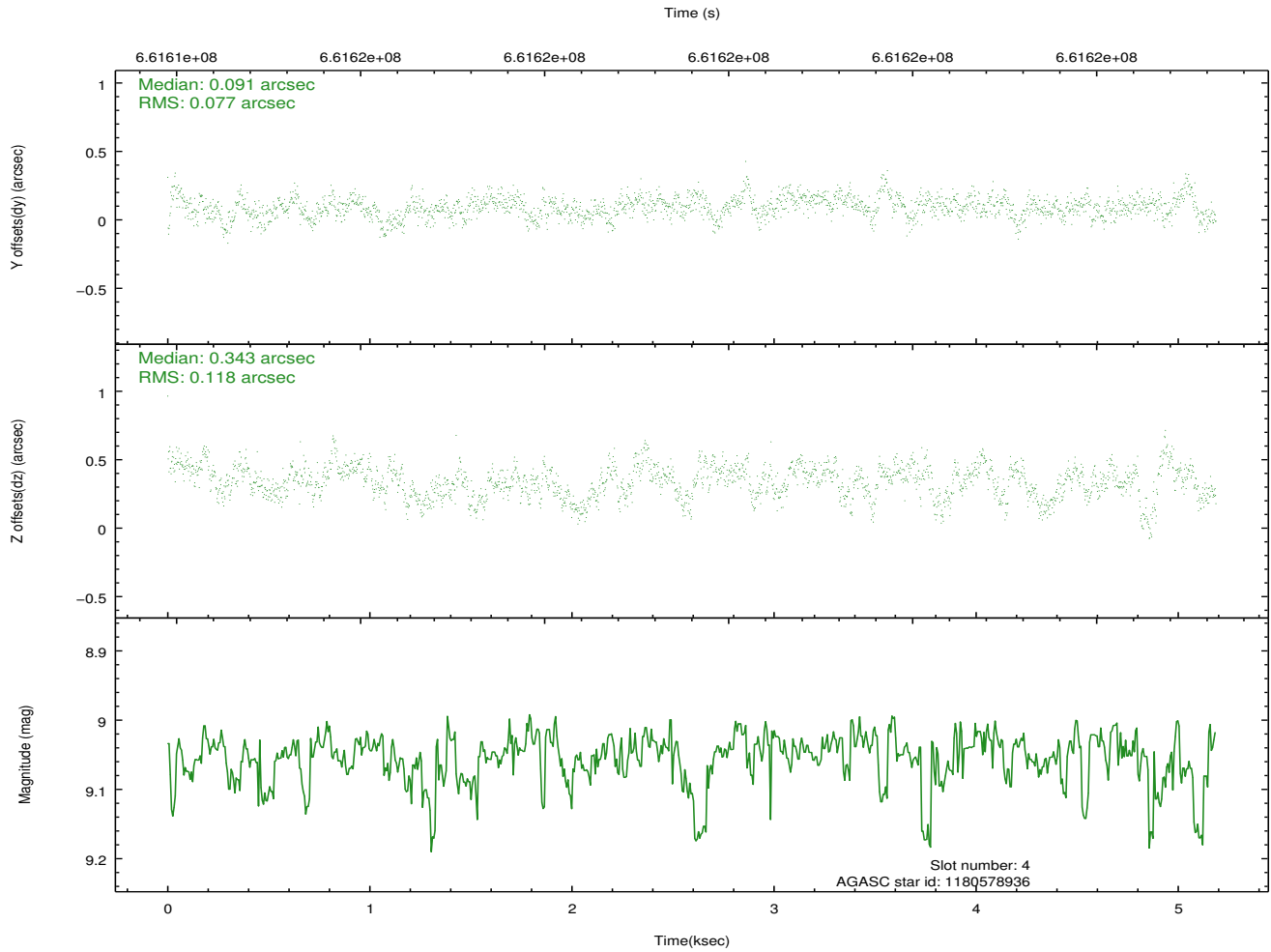
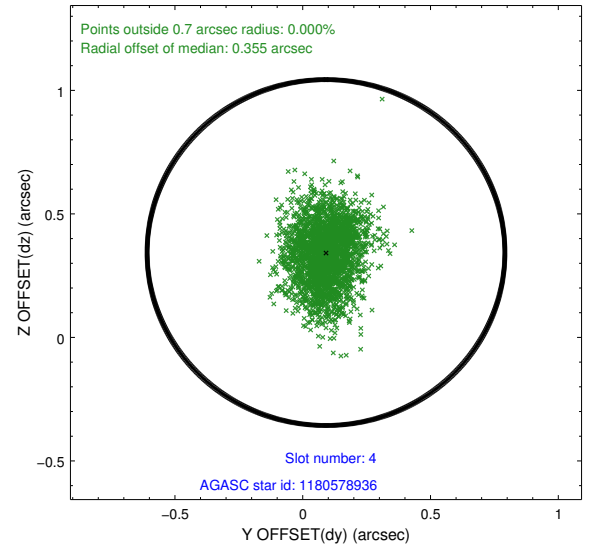
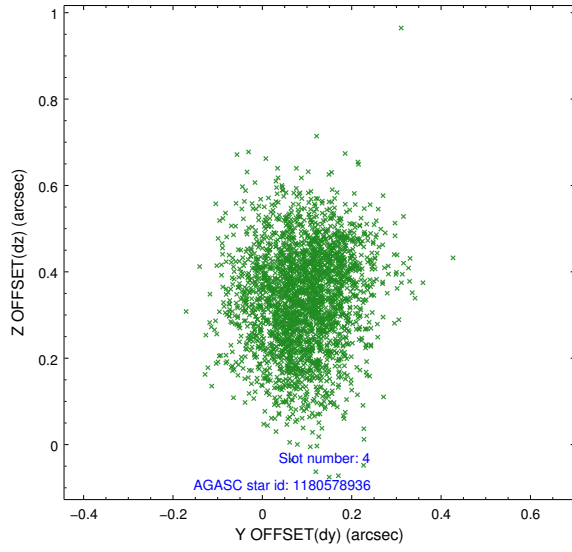
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.03	1265	1.000	-0.323	-0.007	0.021	0.030	0.000000	0.000000	-773.09	-1308
1	FID		HRC-I-2	7.05	1265	1.000	0.454	-0.091	0.019	0.033	0.000000	0.000000	839.70	-1311
2	FID		HRC-I-3	7.11	1265	1.000	-0.009	0.010	0.016	0.027	0.000000	0.000000	-1200.76	994
3	GUIDE	used	1180572024	8.39	2531	1.000	0.113	0.242	0.133	0.215	220.930377	-60.981487	-1289.83	-1370
4	GUIDE	used	1180578936	9.05	2529	1.000	0.091	0.343	0.149	0.245	220.919358	-61.155393	-1831.72	-1056
5	GUIDE	used	1180581872	8.93	2530	1.000	0.007	-0.225	0.159	0.271	219.491376	-61.627334	-2188.20	1912
6	GUIDE	used	1180589152	9.20	2529	1.000	0.011	-0.295	0.201	0.312	219.760705	-61.382926	-1618.16	1099
7	GUIDE	used	1180612104	8.95	2528	1.000	-0.211	-0.059	0.169	0.298	220.502279	-60.631704	174.25	-1303

## 2.4 Star Slots

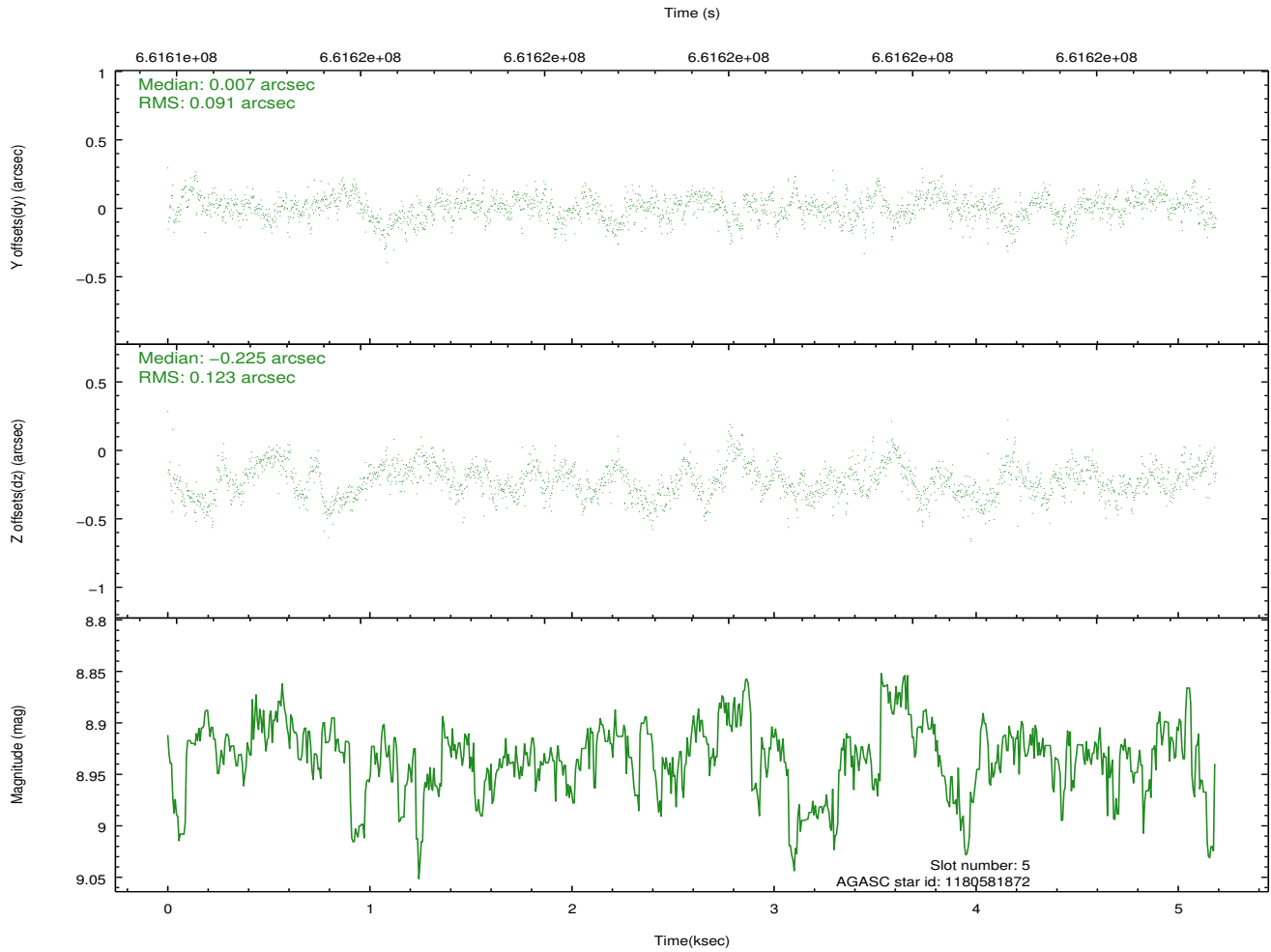
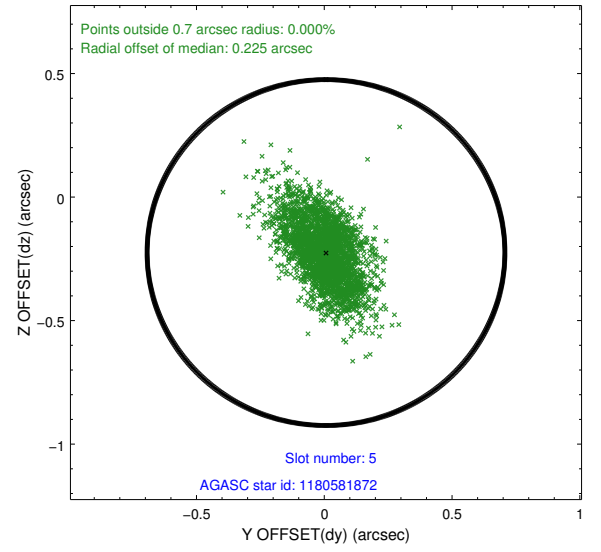
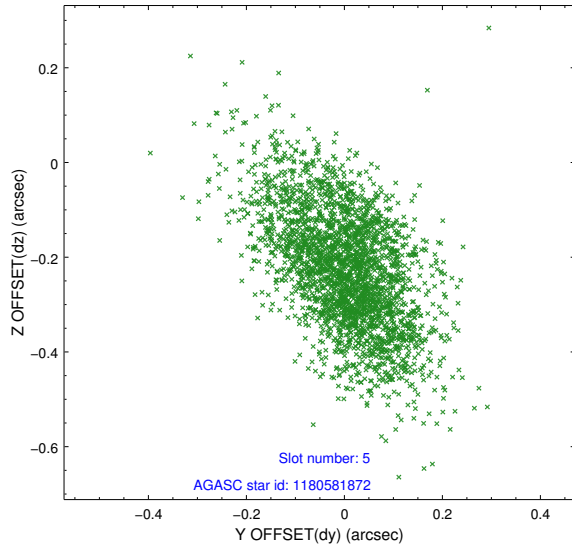
### 2.4.1 Slot 3



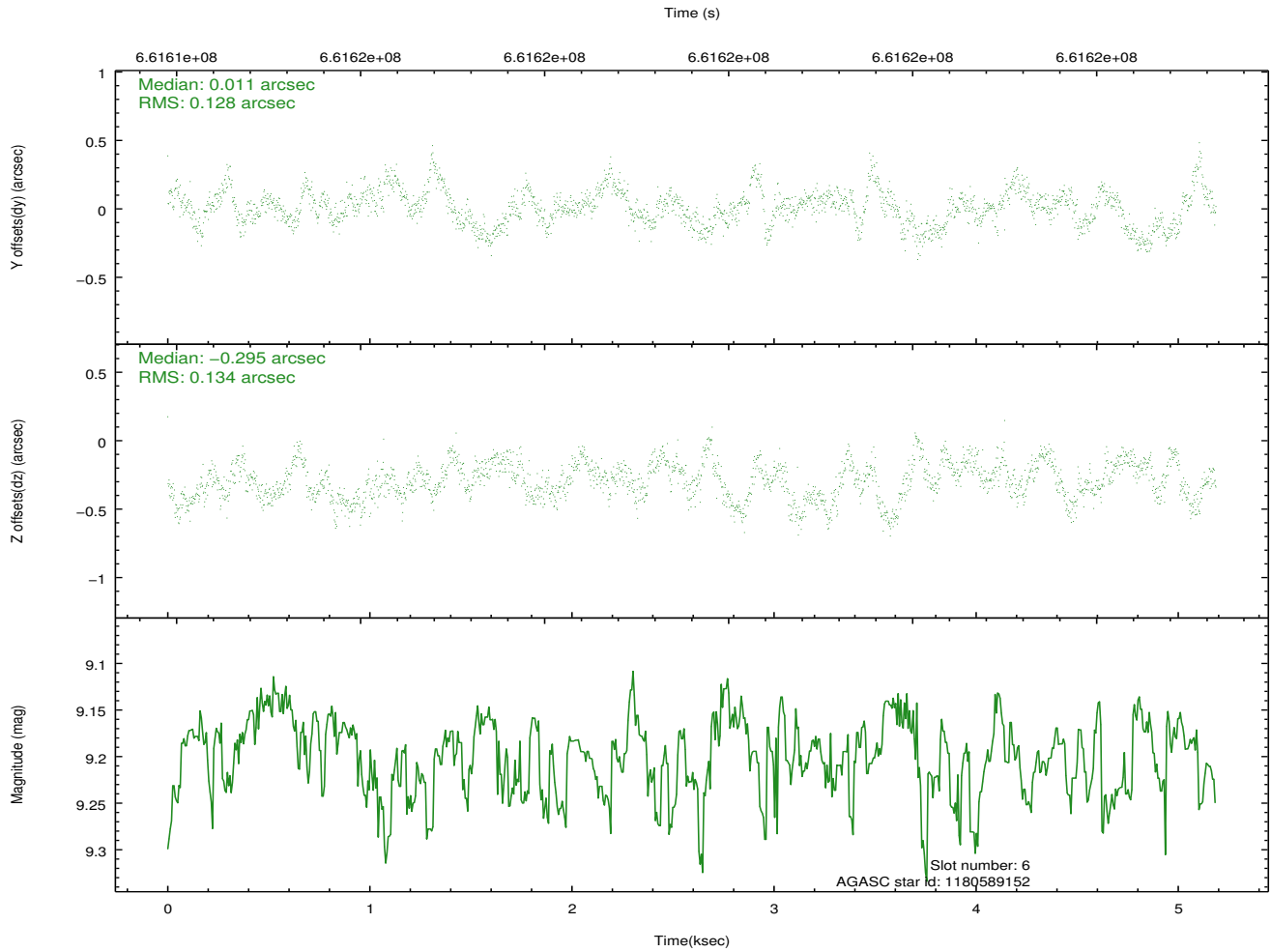
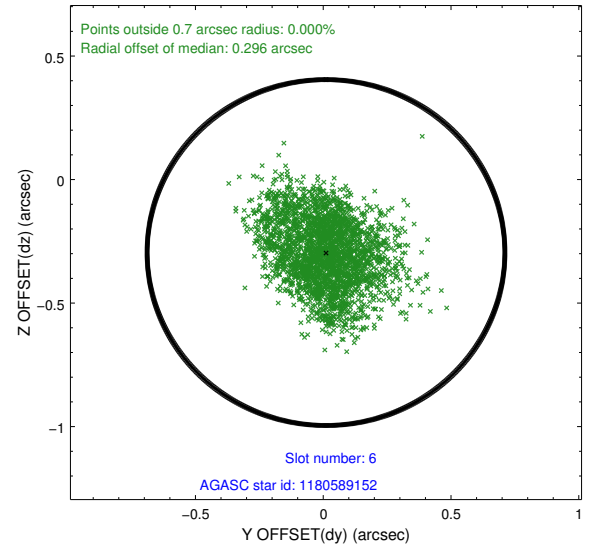
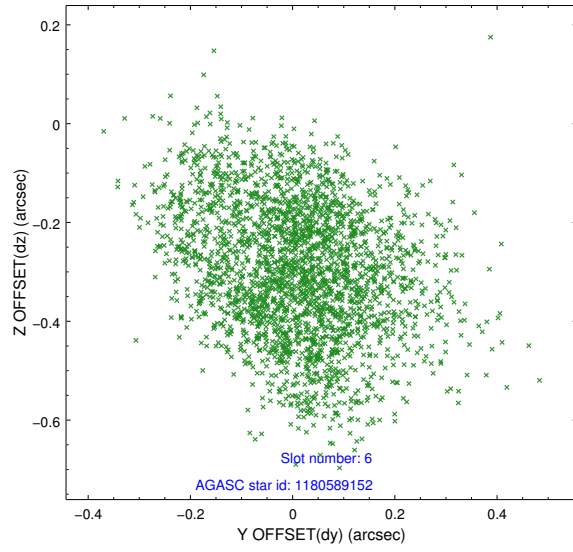
## 2.4.2 Slot 4



### 2.4.3 Slot 5

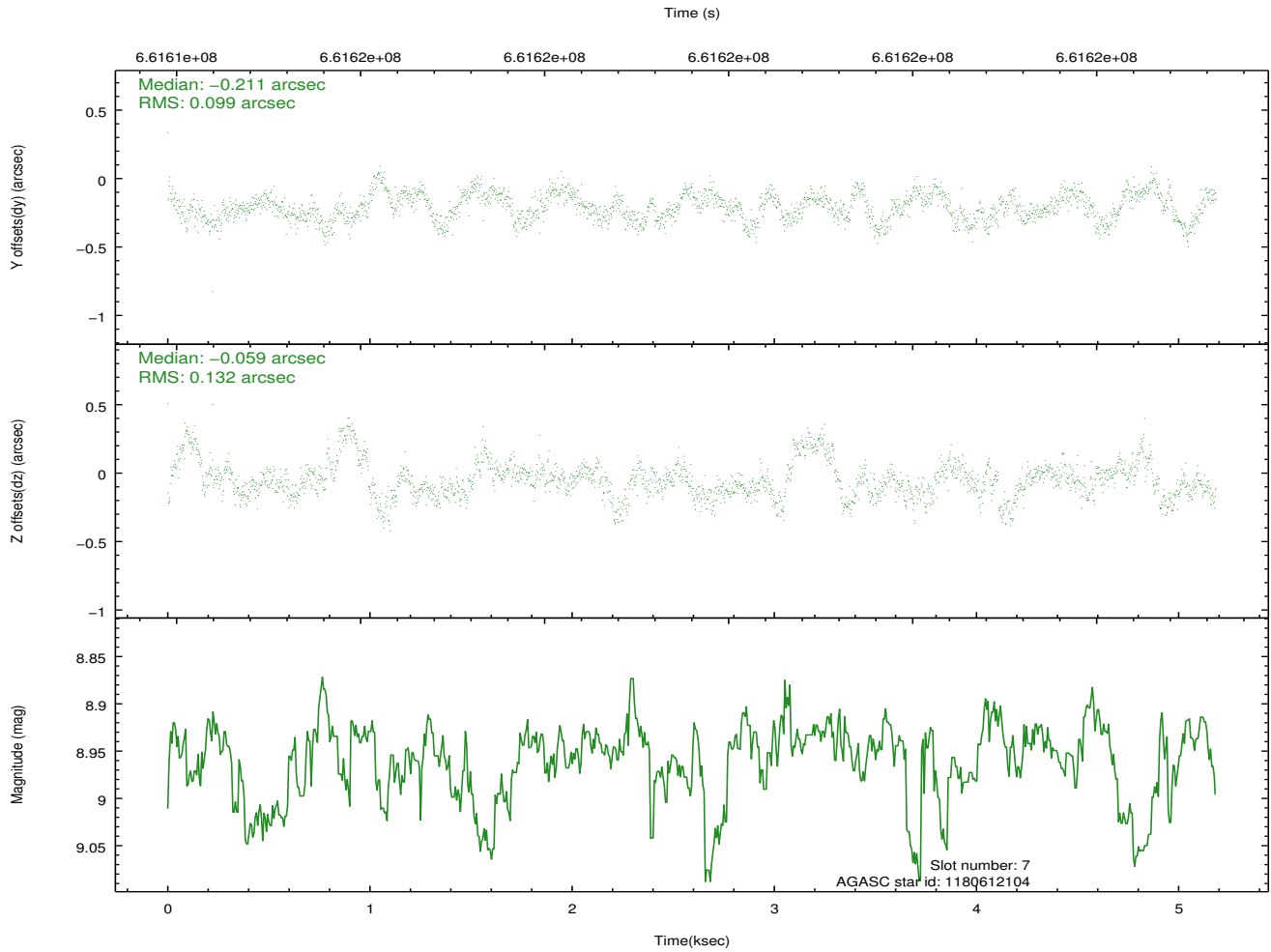
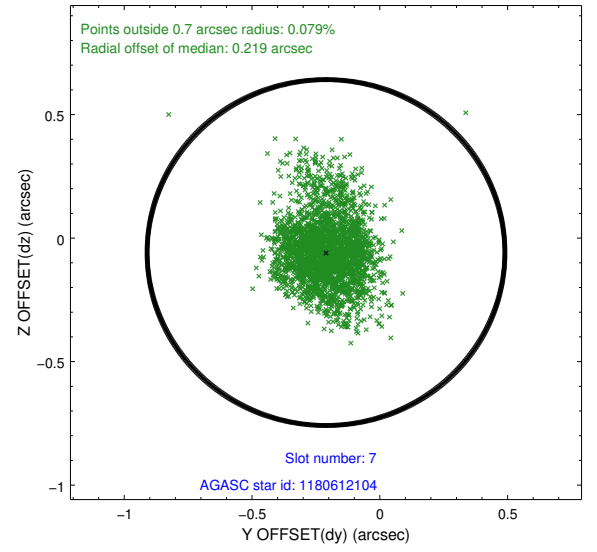
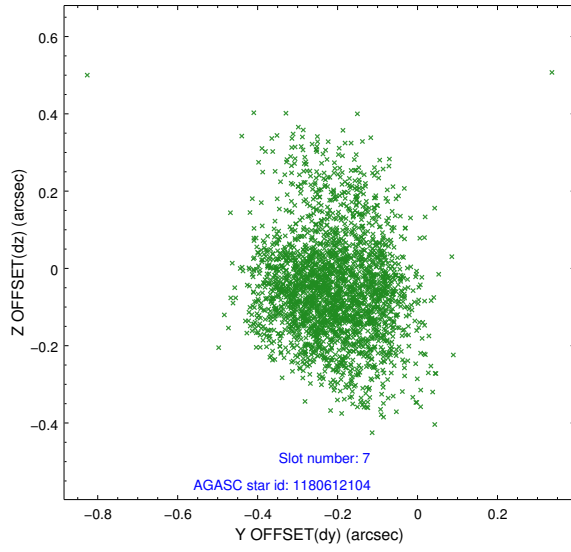


## 2.4.4 Slot 6



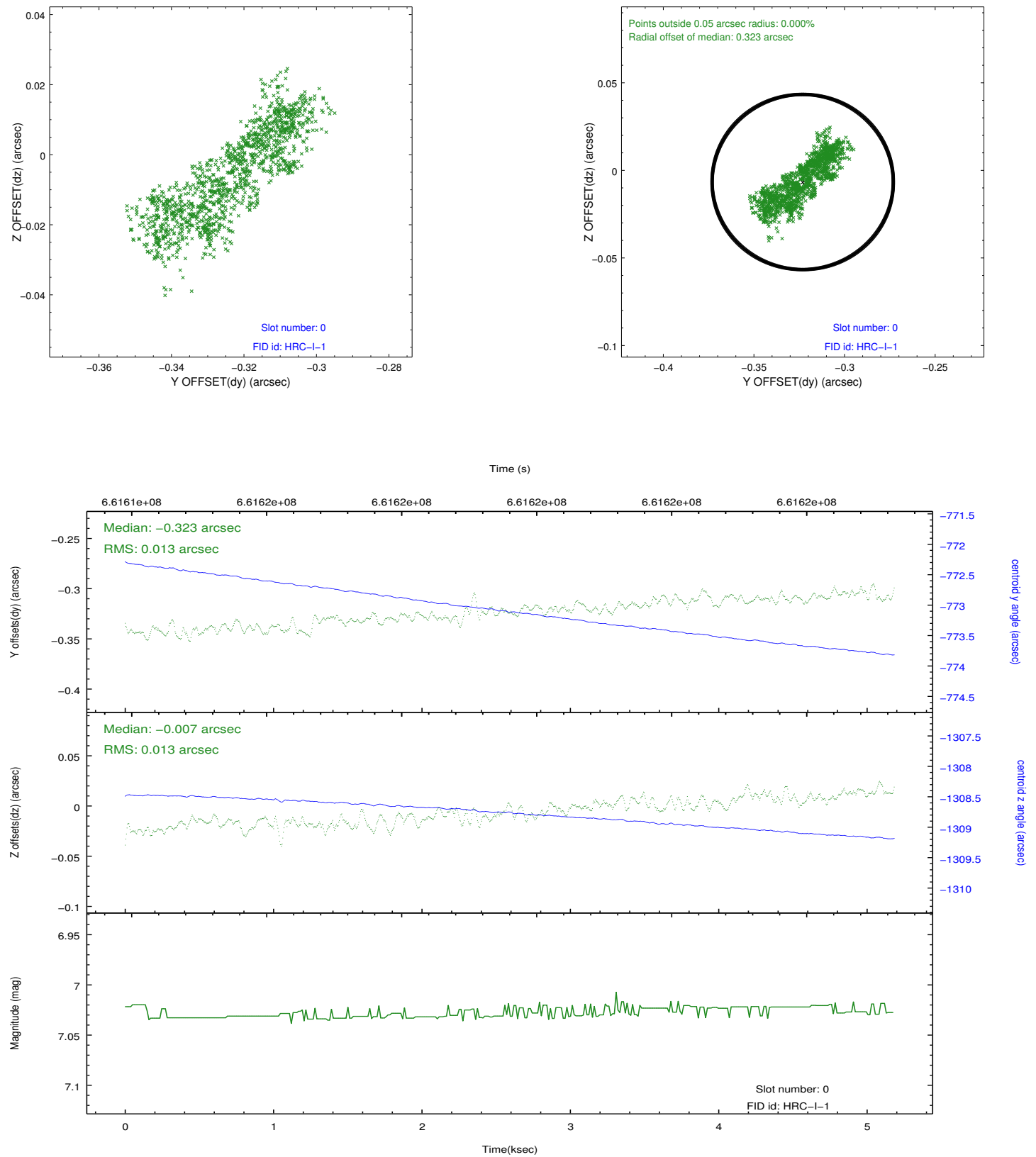


## 2.4.5 Slot 7

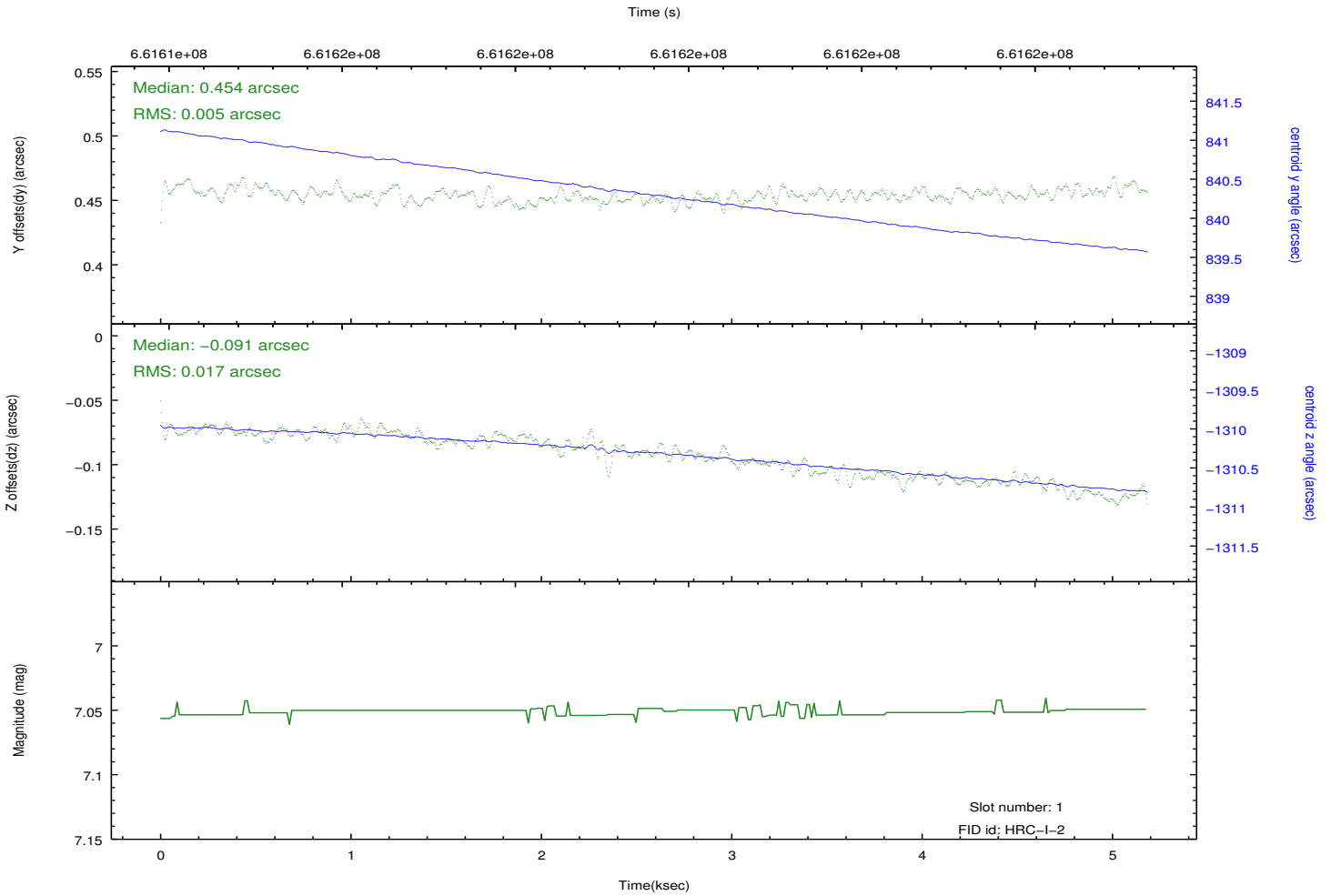
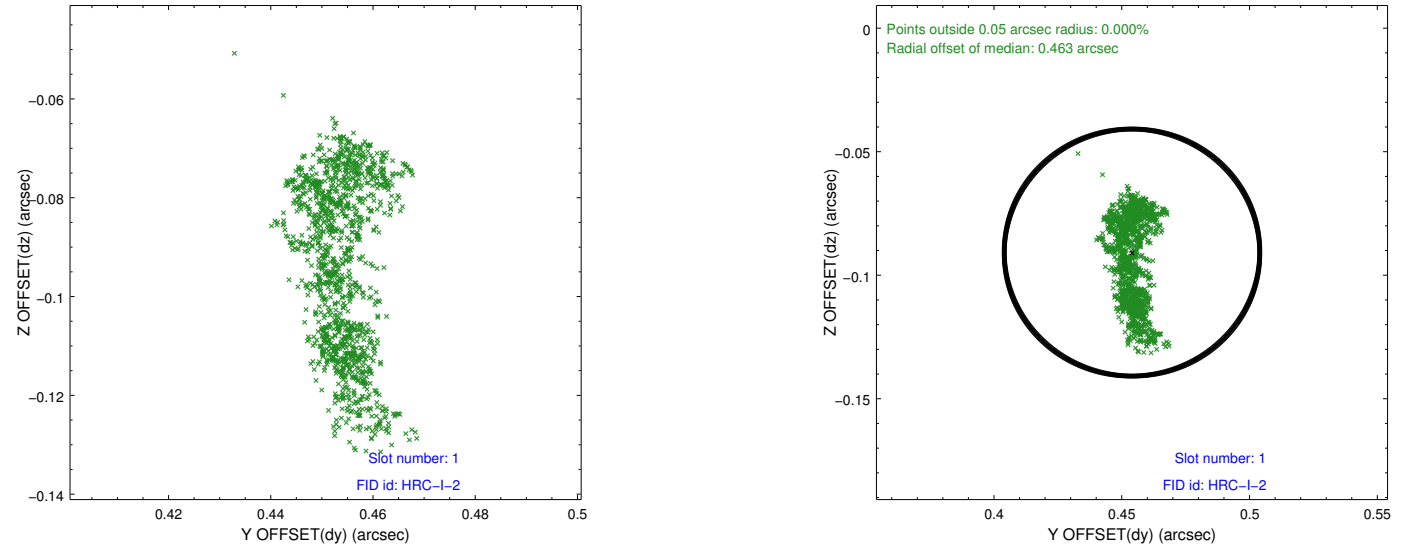


## 2.5 FID Slots

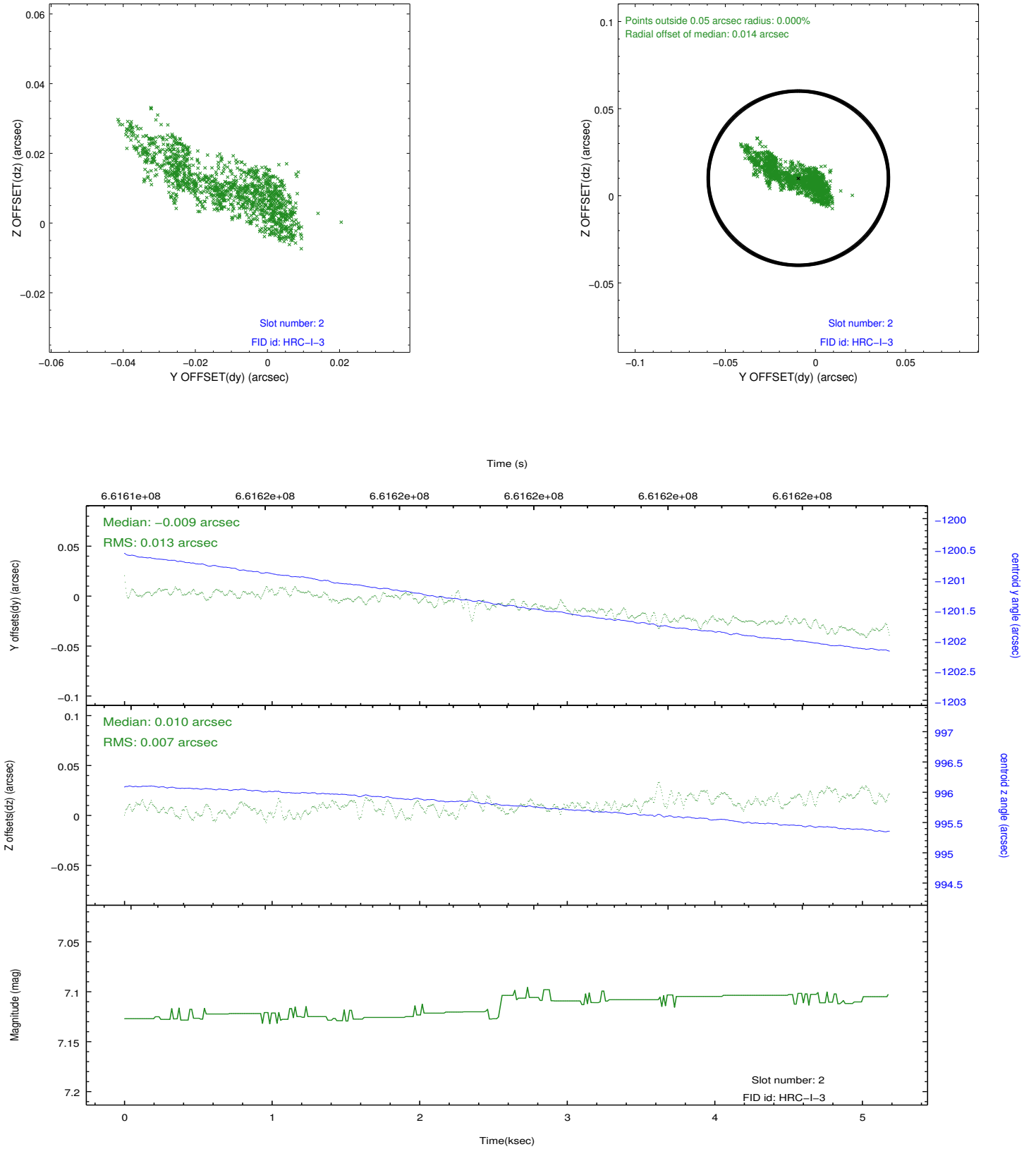
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2018.12.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1857315593958

### A.2 Comments

Joint Proposal: HST. Window preference met.