

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 5737 - L2 Version 3  
Chandra X-Ray Center

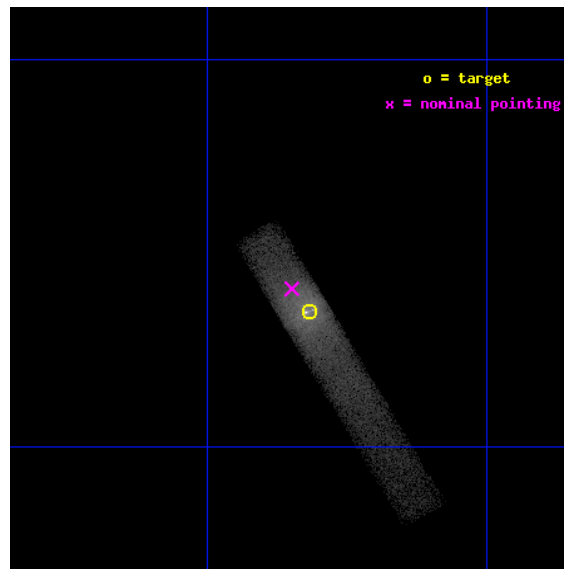
L2 Processing Date : Dec 11 2012

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# 1 Front

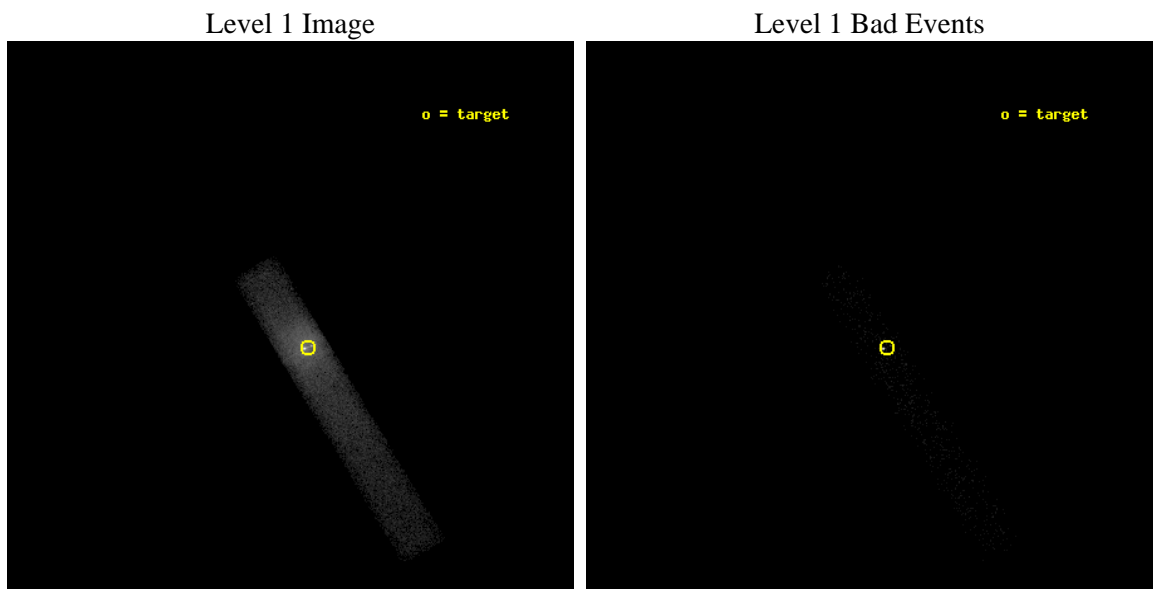
seq_num	701159	Sequence number
obs_id	5737	Observation id
title	The X-ray Flares of Knot 'HST-1' in the M87 Jet (monitoring)	Pro
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.71208718128	Nominal RA [deg]
dec_nom	12.40132456627	Nominal Dec [deg]
roll_nom	58.808420099954	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4646.000069201	Sum of GTIs [s]
livetime	4213.676826774	Livetime [s]
ontime7	4646.000069201	Sum of GTIs [s]
l2events	55663	Number of level 2 events



## 2 OBI

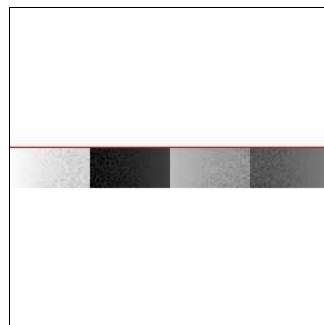
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	4500.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	4646.000069201	Sum of GTIs [s]
caldsver	4.5.4	&#160	ontime7	4646.000069201	Sum of GTIs [s]
date	2012-12-12T00:14:10	Date and time of file creation	l1events	69289	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	69289
rejected events	13036
rejected %	18%

	<b>ccd 7</b>
grade 0 events	17457
	25%
grade 1 events	460
	0%
grade 2 events	14646
	21%
grade 3 events	6803
	9%
grade 4 events	6464
	9%
grade 5 events	2681
	3%
grade 6 events	13159
	18%
grade 7 events	7619
	10%

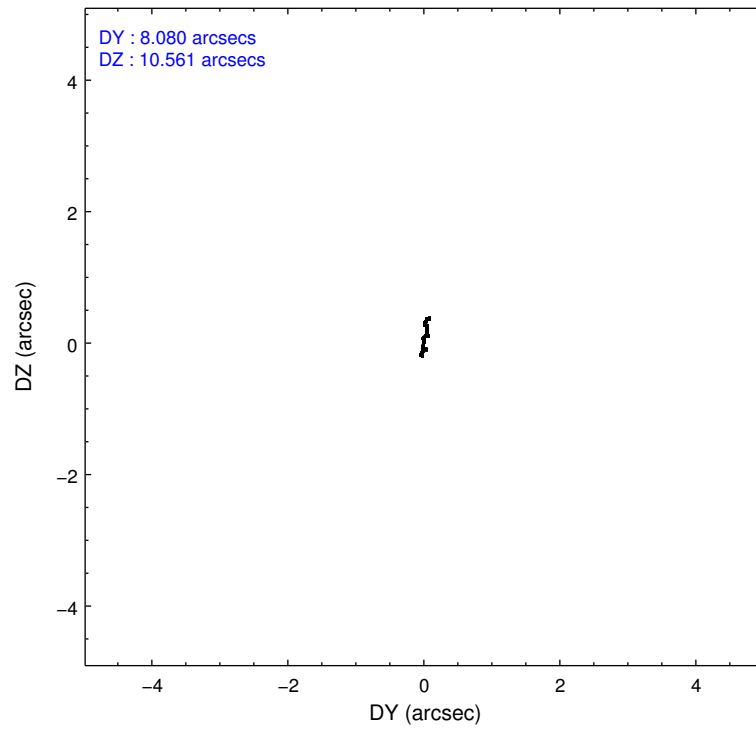
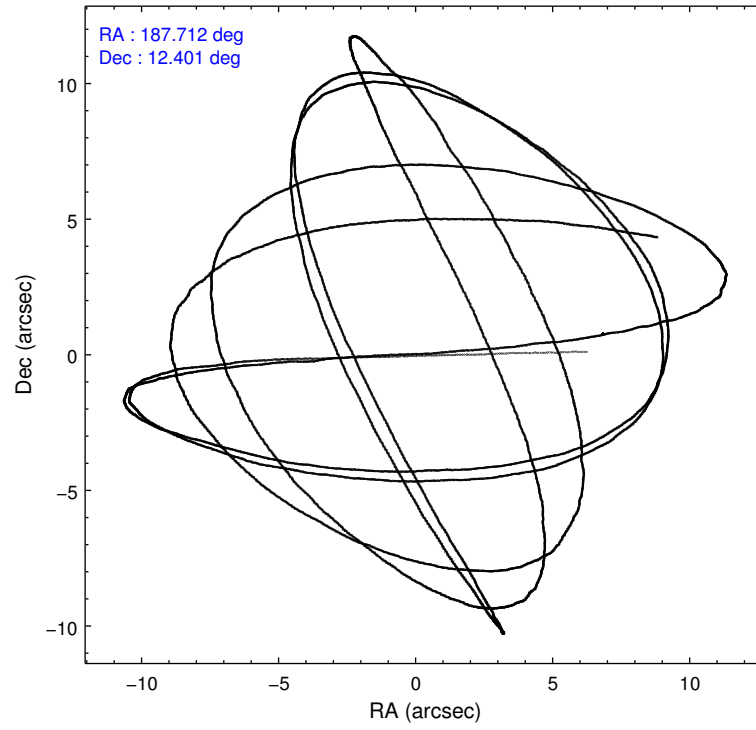


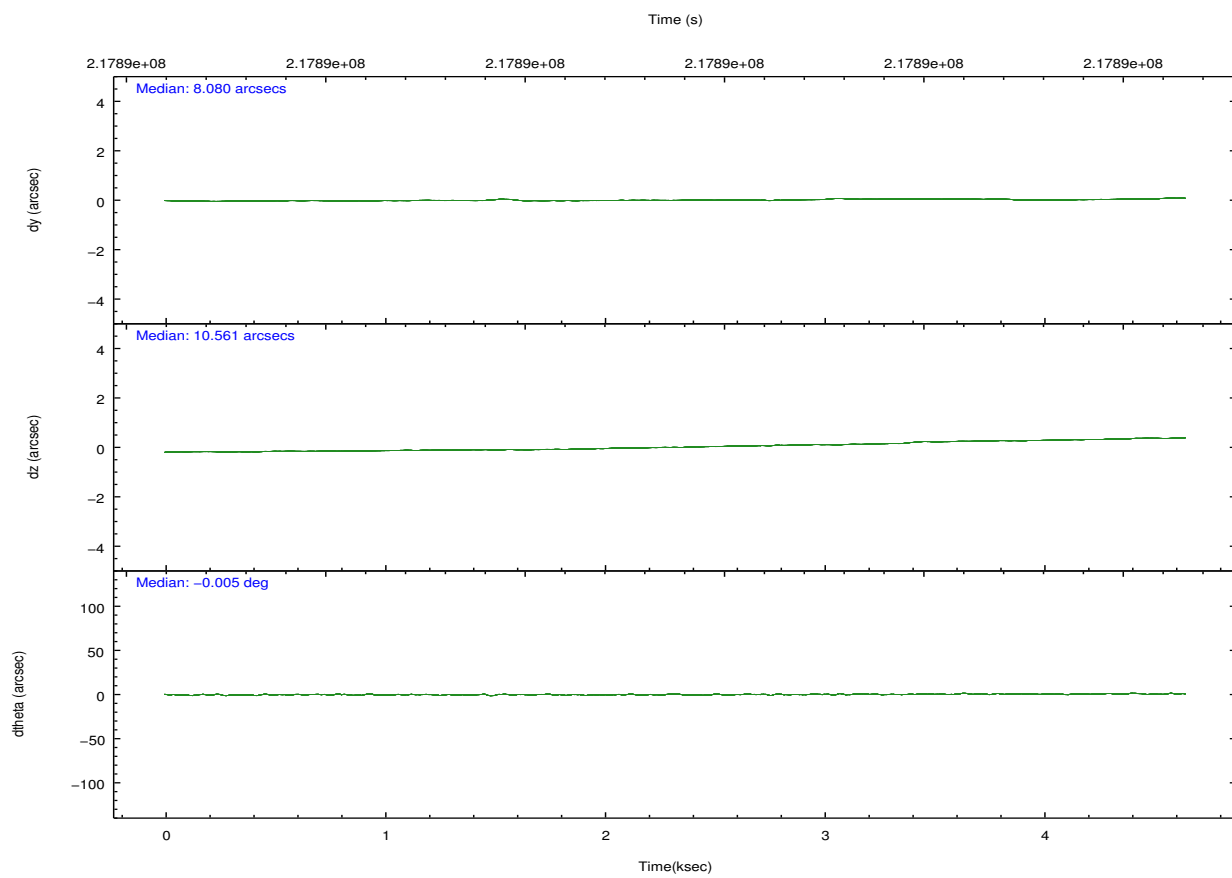
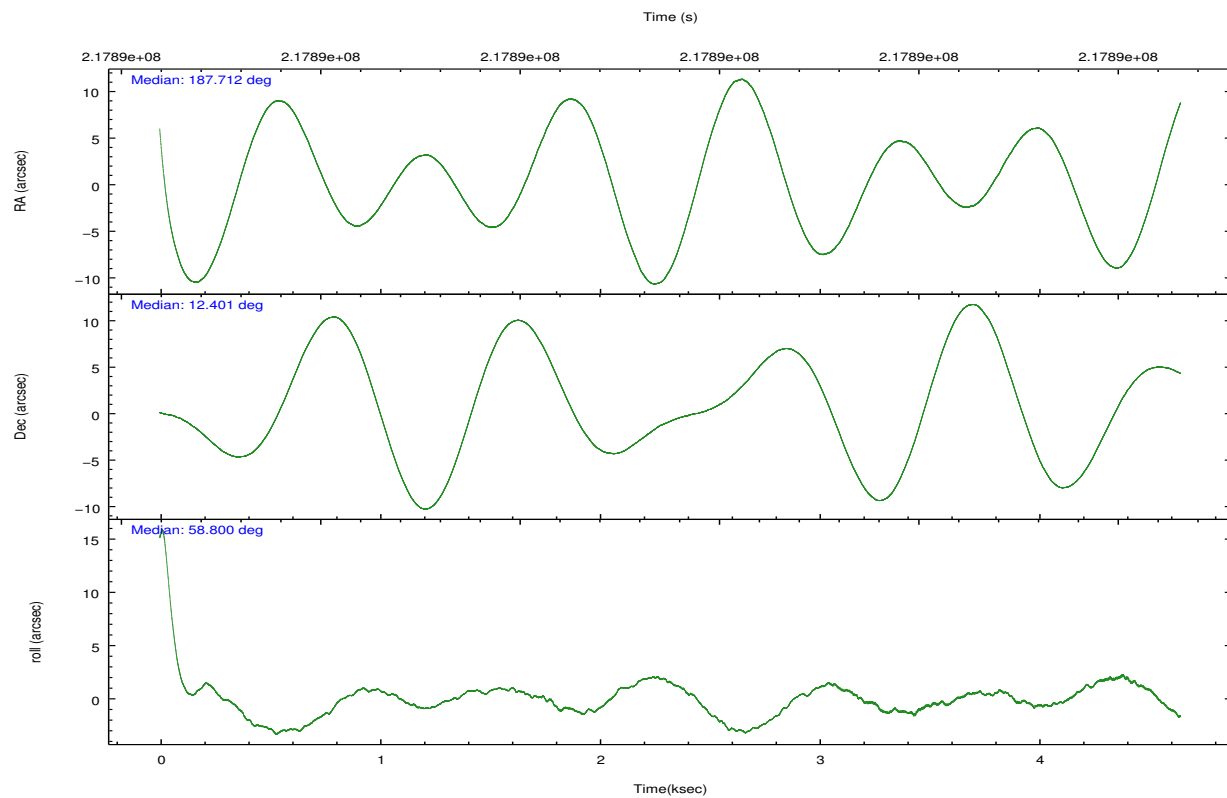
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	187.712002	187.7120871812845
[deg] Pointing Dec	12.374123	12.40132456626954
[deg] Pointing Roll	58.651774	58.80842009995434
[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)	217888571.184000	217887556.8628
Observation start date	2004-11-26T20:35:07	2004-11-26T20:19:16
[s] Observation end time (MET)	217893071.184000	217893720.70058
Observation end date	2004-11-26T21:50:07	2004-11-26T22:02:00
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	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

## 2.3 Aspect



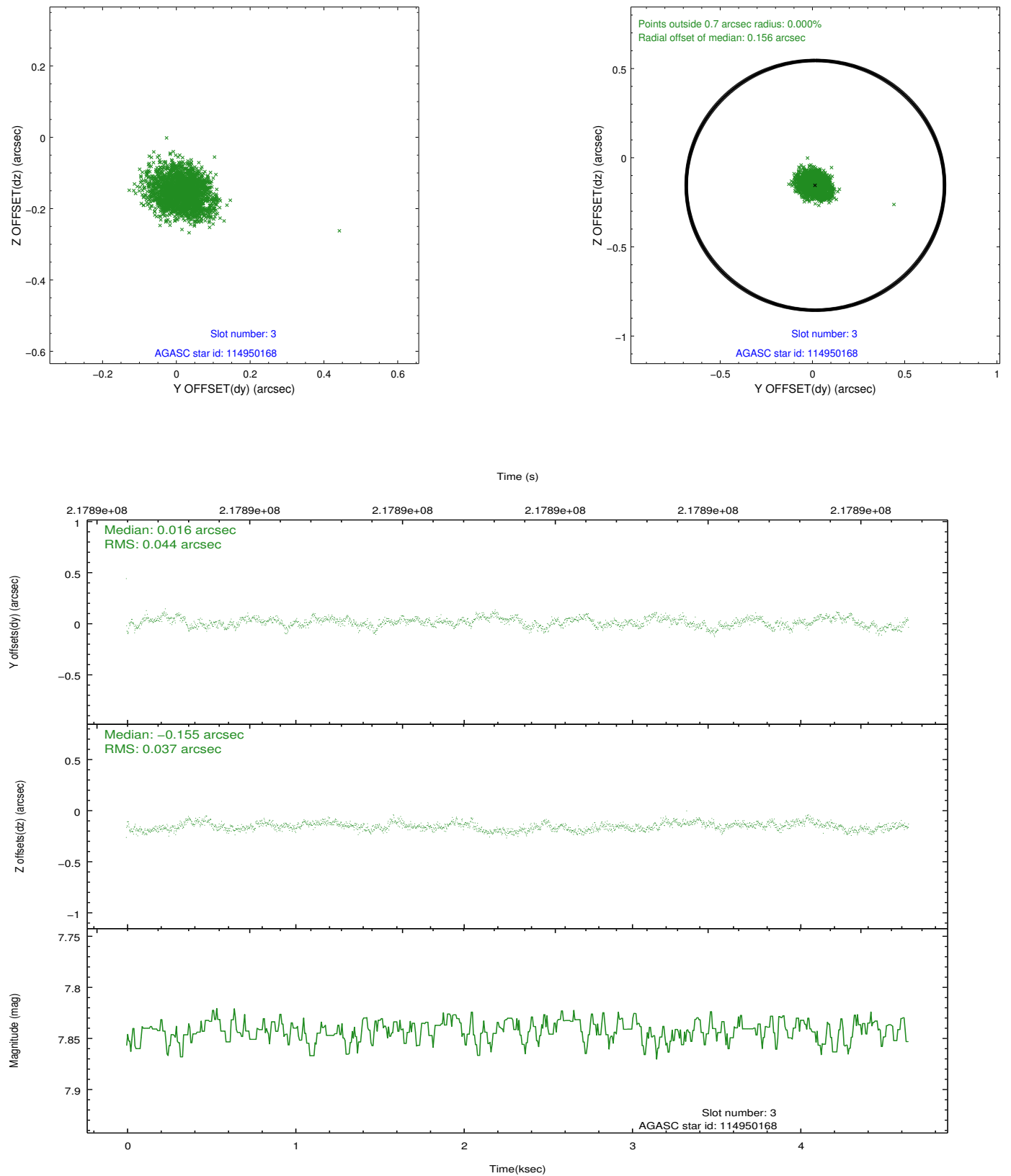


### Slot Statistics

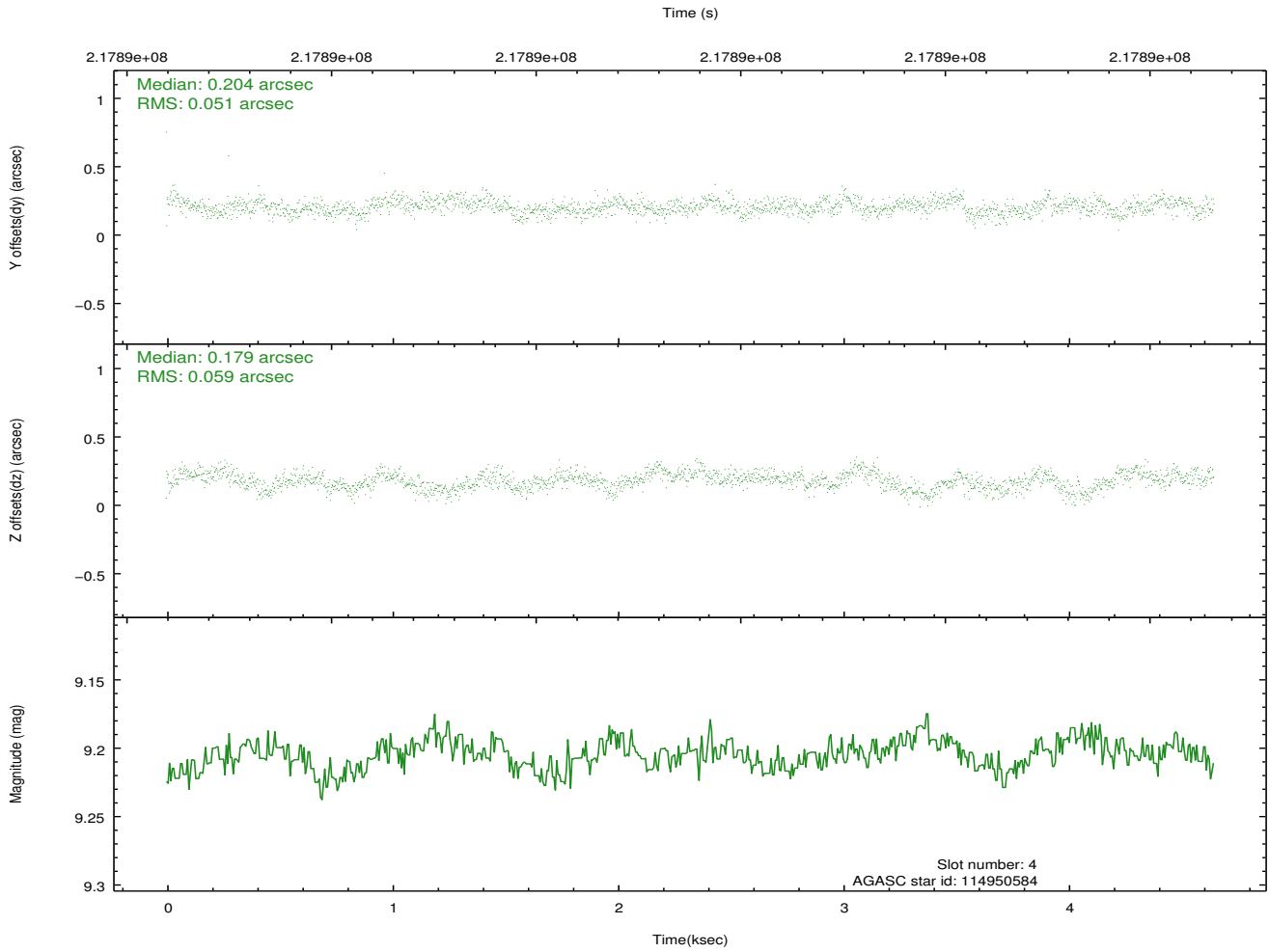
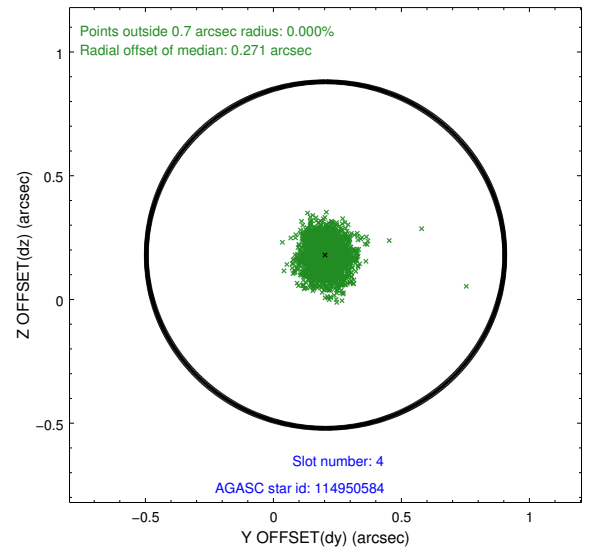
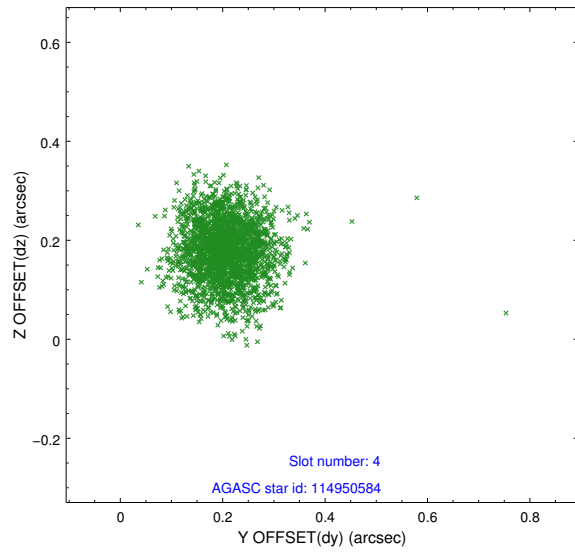
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1133	-0.041	-0.014	0.007	0.011	0.000000	0.000000	-760.86	-1731.90
1	FID	ACIS-S-4	7.21	1134	0.109	0.024	0.006	0.010	0.000000	0.000000	2151.92	175.32
2	FID	ACIS-S-5	7.23	1134	-0.099	-0.000	0.007	0.011	0.000000	0.000000	-1812.11	170.38
3	GUIDE	114950168	7.84	2268	0.016	-0.155	0.062	0.096	187.143398	12.117441	-1828.31	1229.26
4	GUIDE	114950584	9.20	2265	0.204	0.179	0.081	0.134	187.487323	11.827248	-2093.13	-347.27
5	GUIDE	114952824	8.55	2266	-0.187	-0.131	0.095	0.145	187.703904	12.486727	330.61	235.22
6	GUIDE	114955056	8.31	2268	-0.105	0.286	0.072	0.120	187.914001	12.127854	-386.40	-1067.76
7	GUIDE	114957008	8.24	2267	0.073	-0.174	0.085	0.132	186.894794	12.099160	-2338.31	1943.45

## 2.4 Star Slots

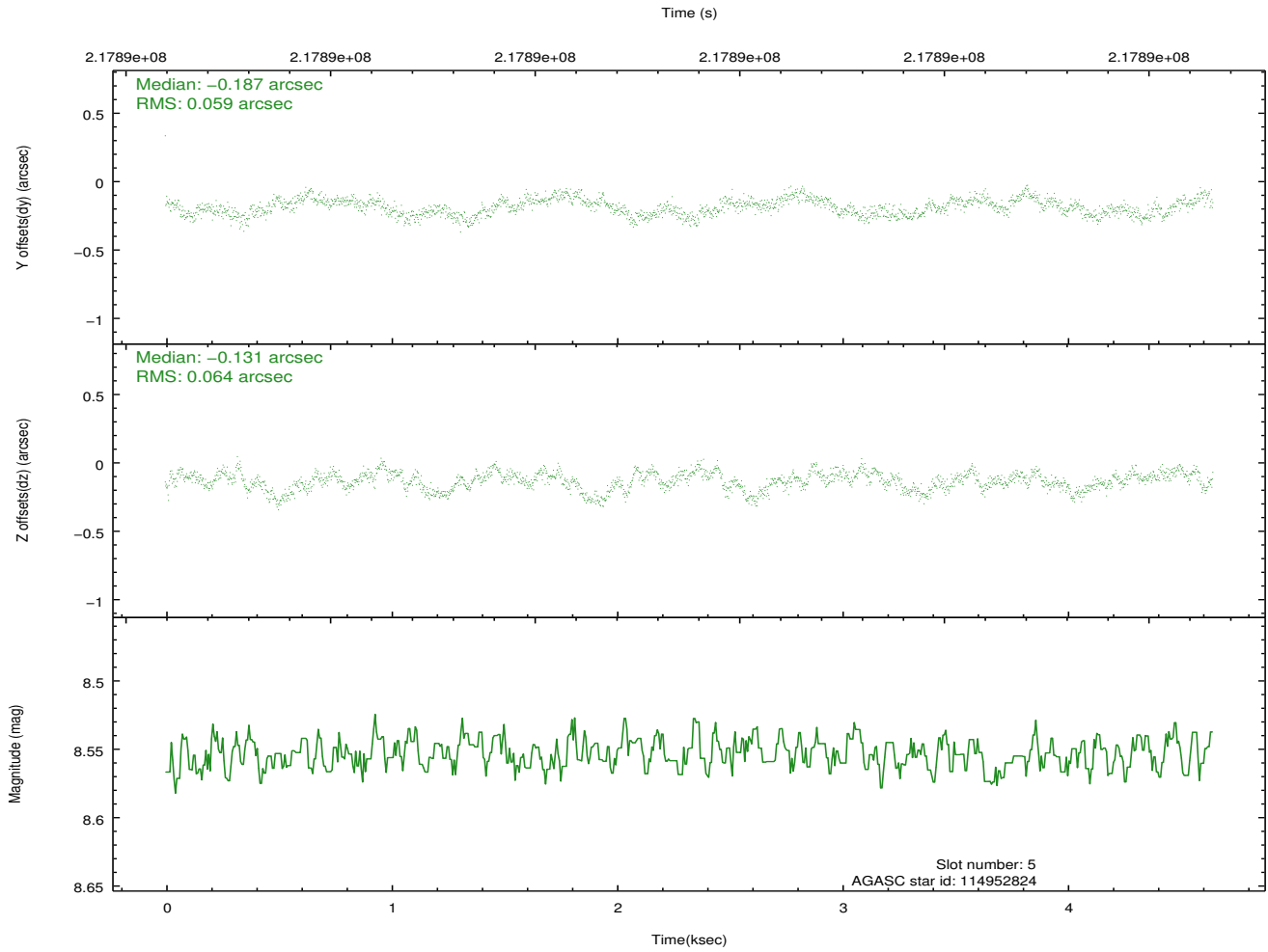
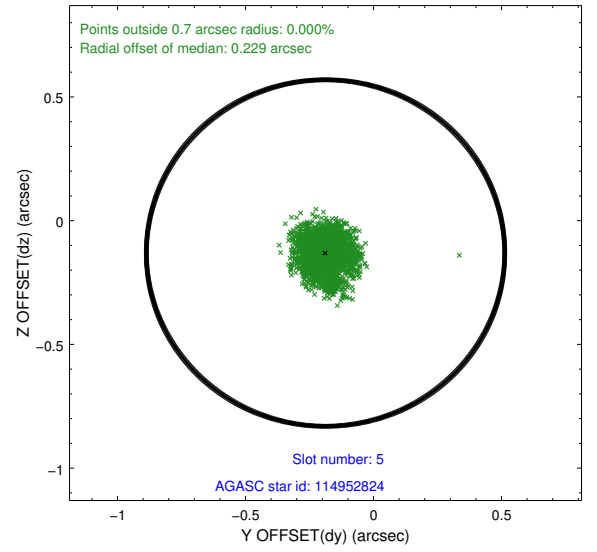
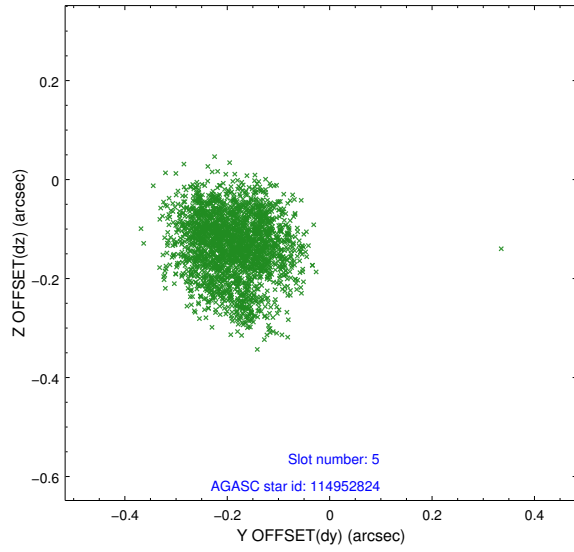
### 2.4.1 Slot 3



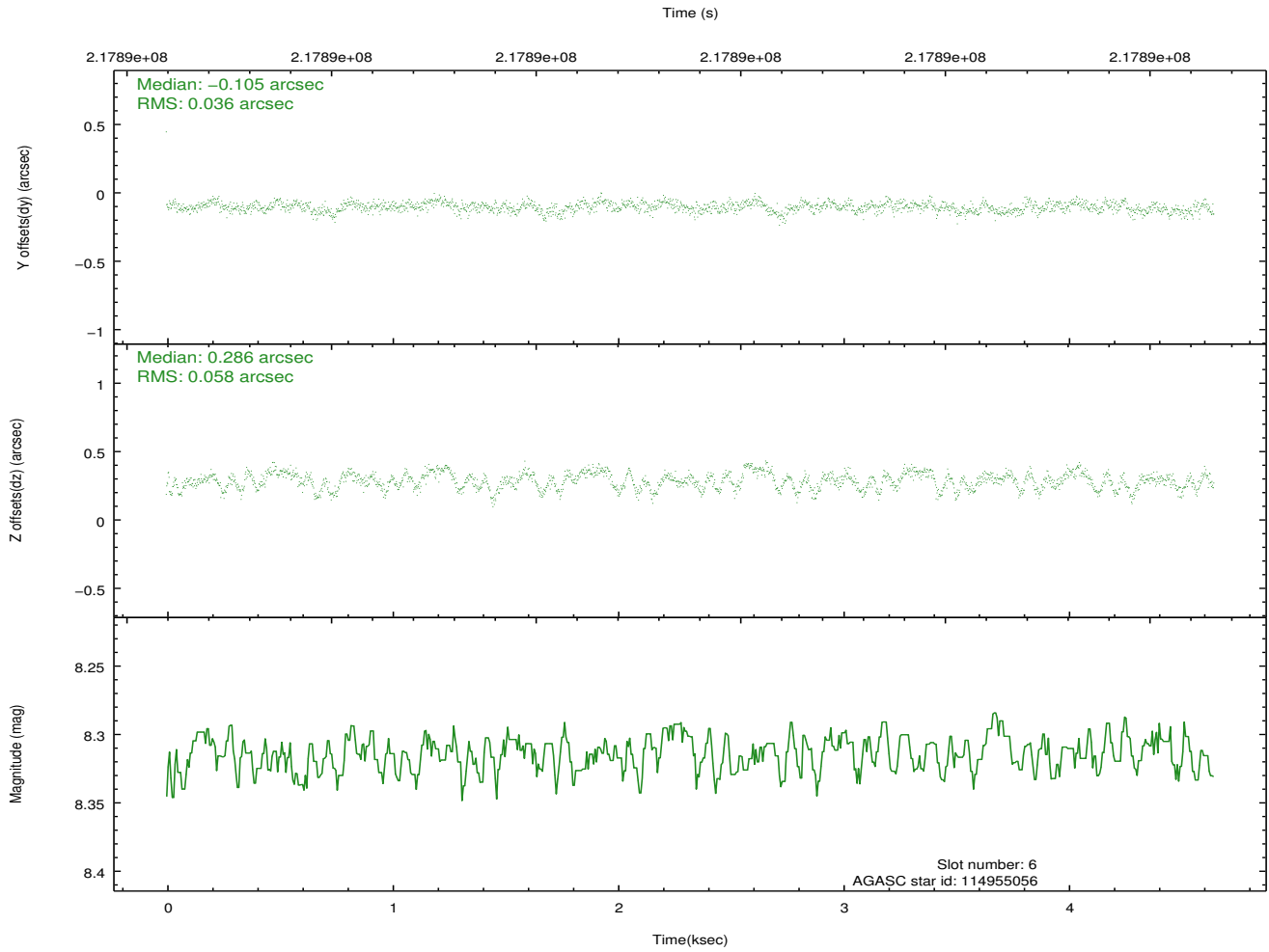
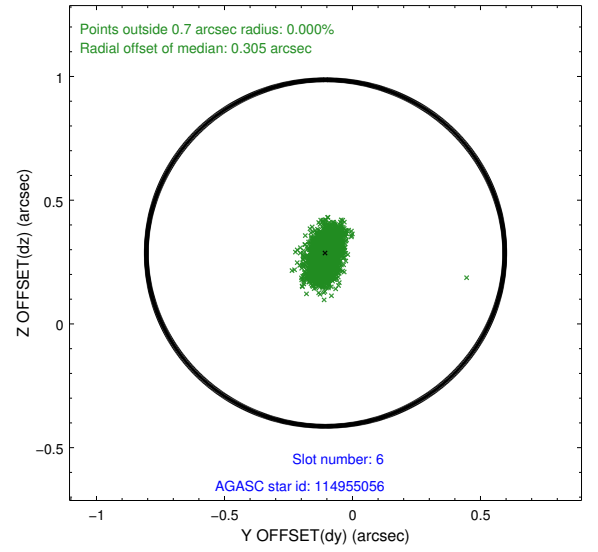
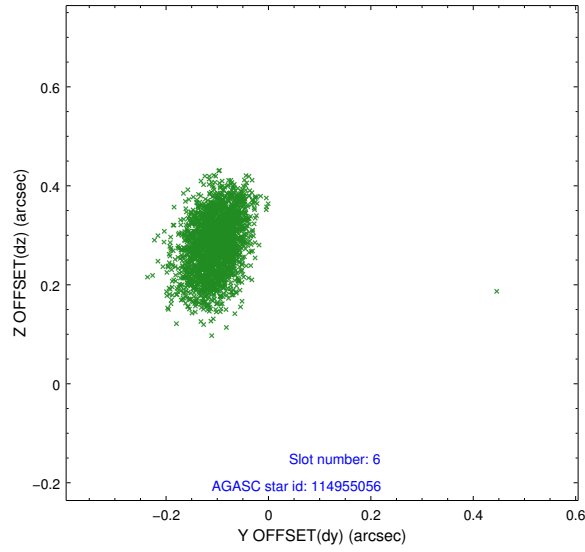
## 2.4.2 Slot 4



### 2.4.3 Slot 5

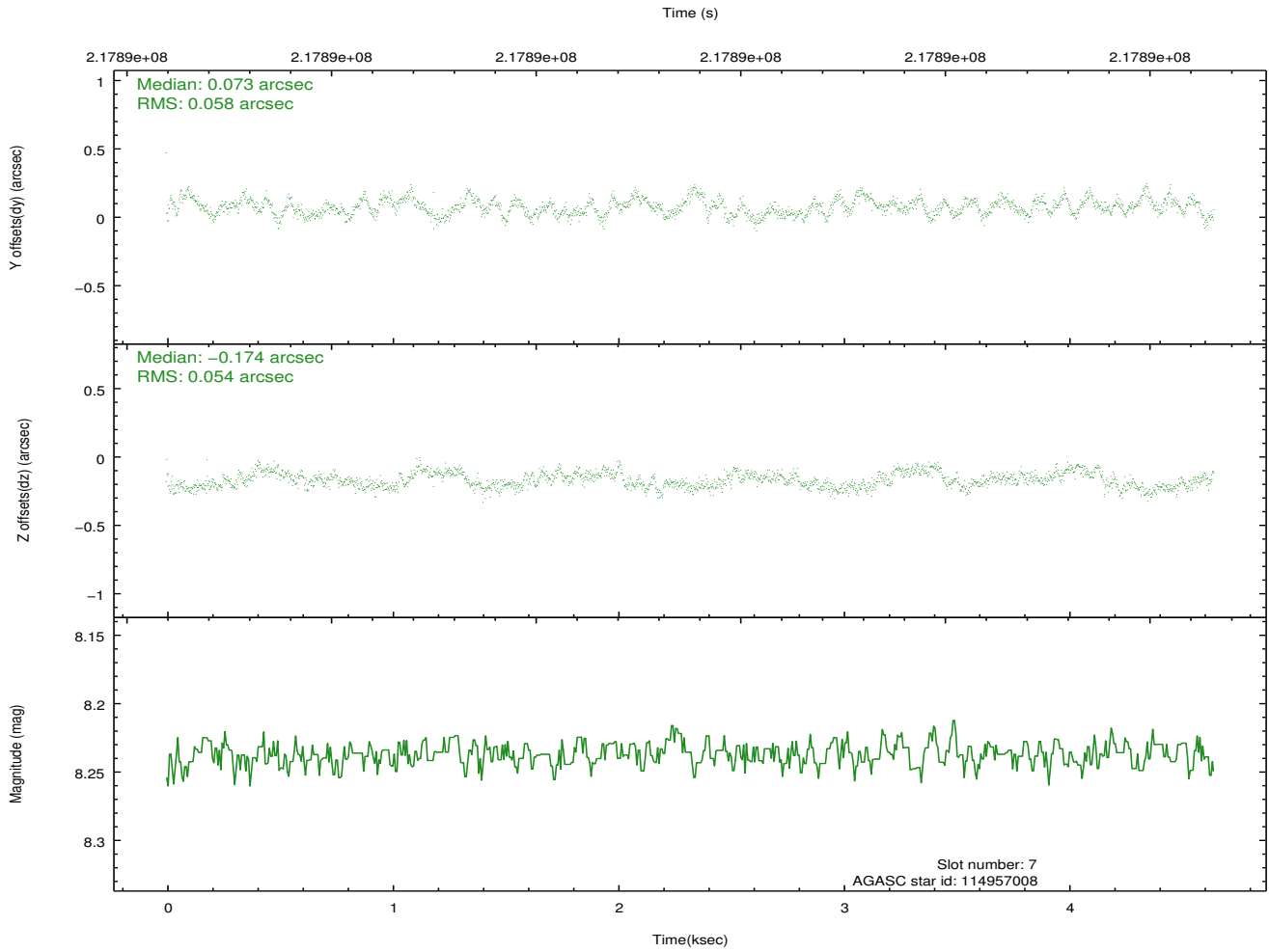
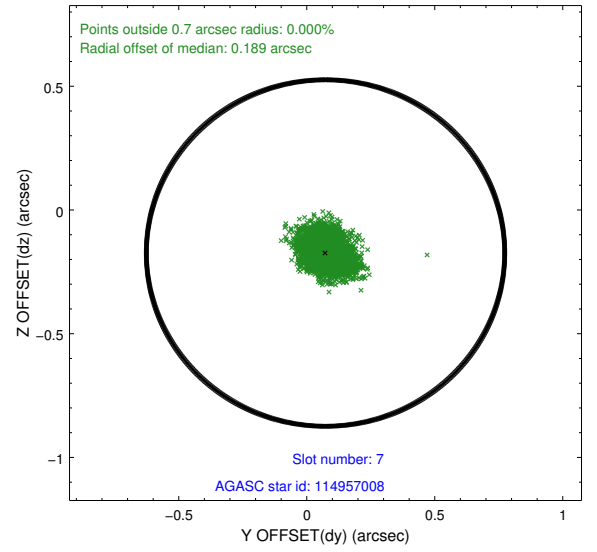
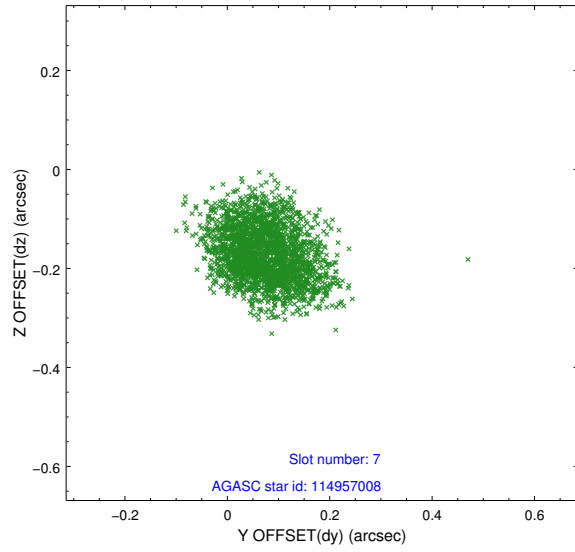


## 2.4.4 Slot 6



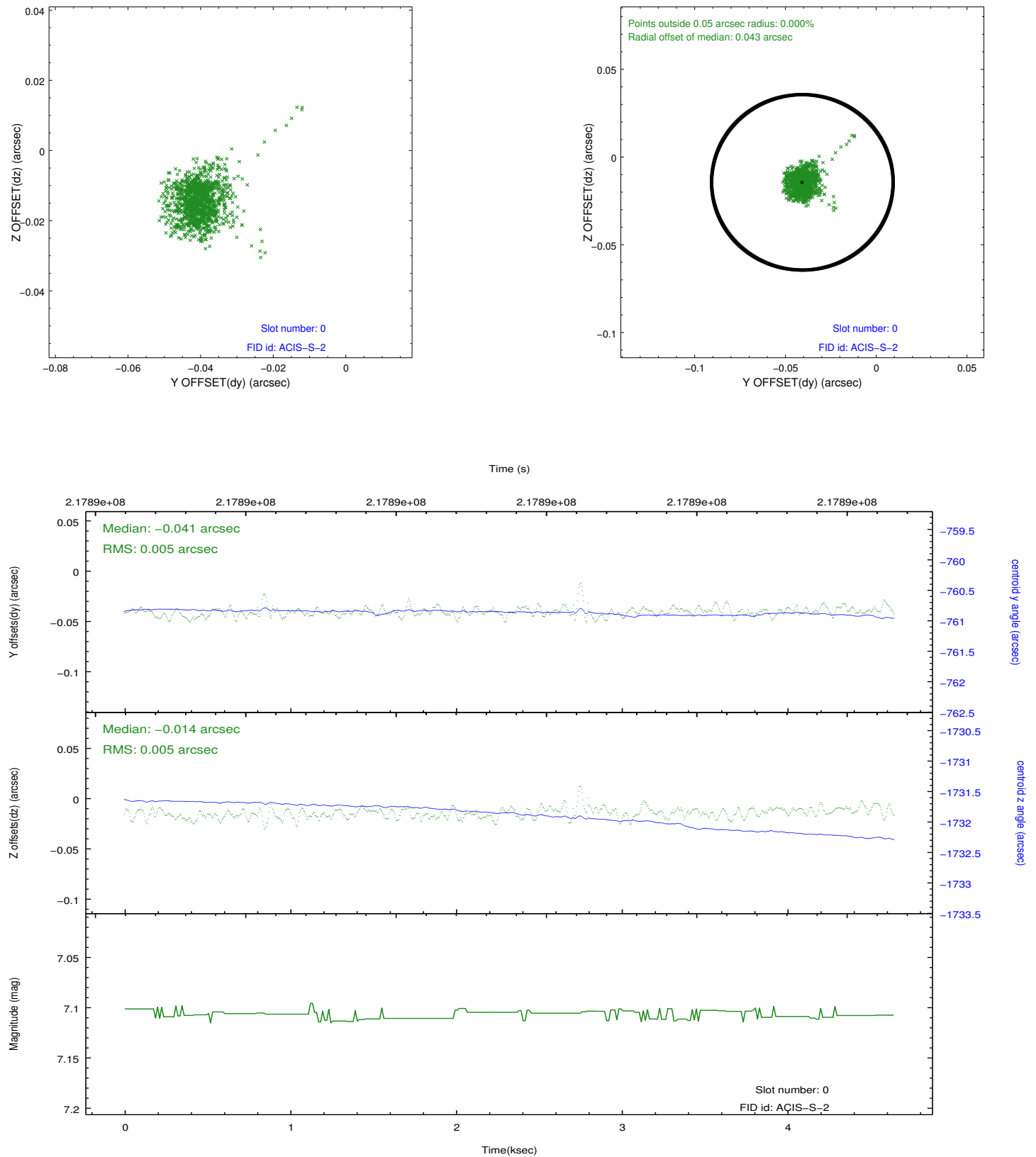


## 2.4.5 Slot 7

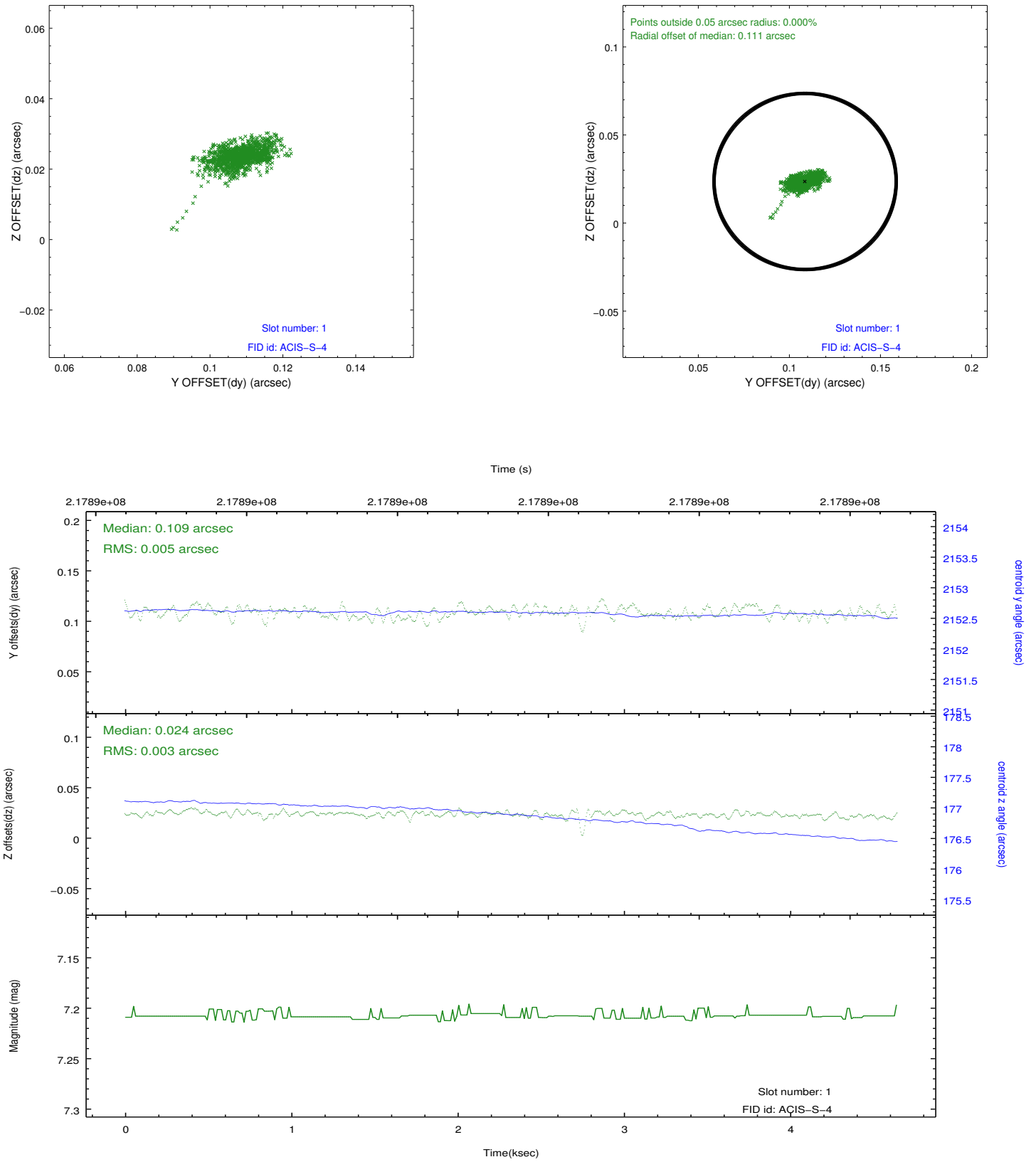


## 2.5 FID Slots

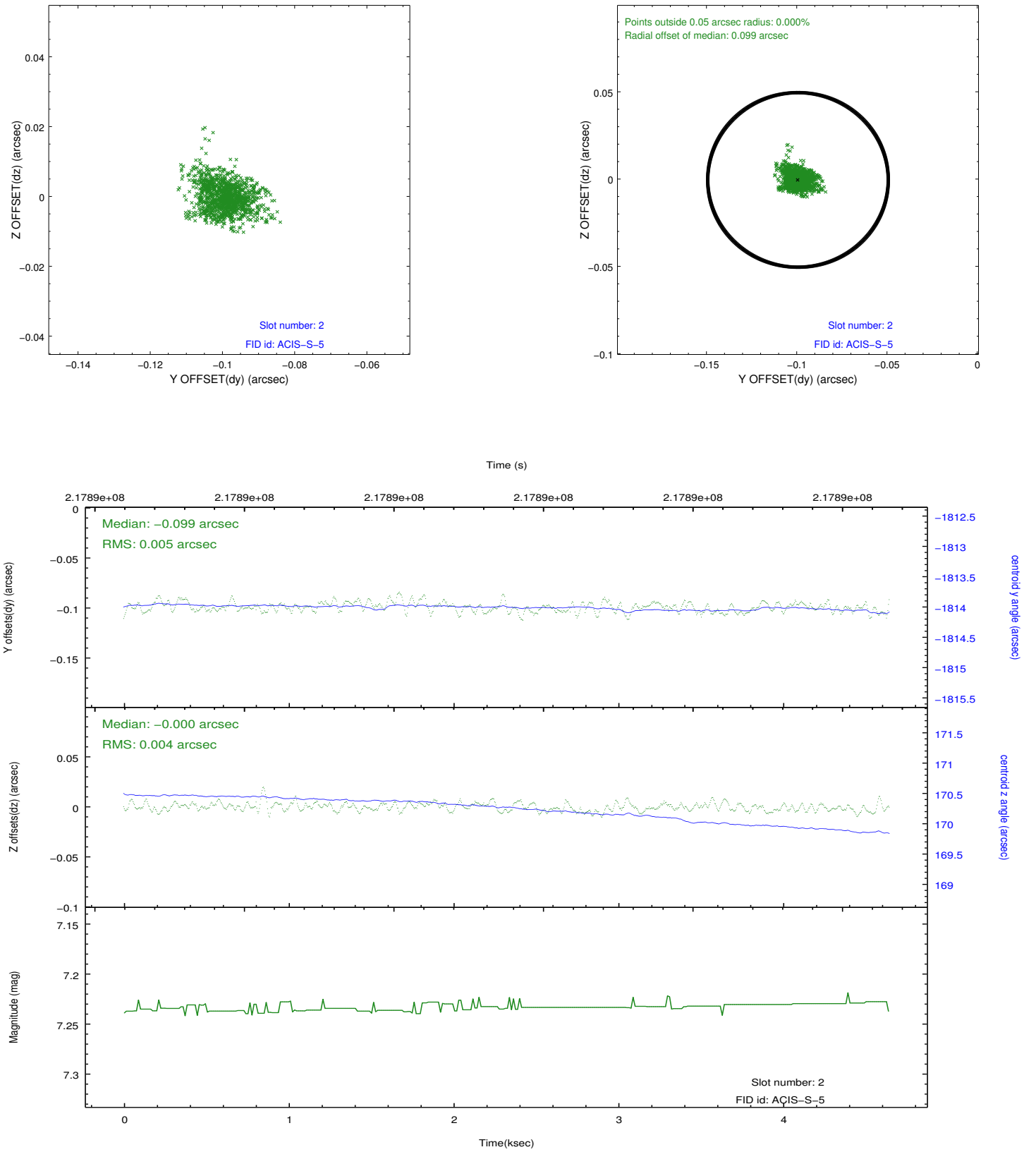
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.12.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.646

## A.2 Comments

Joint proposal with HST.