

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 1749 - L2 Version 4  
Chandra X-Ray Center

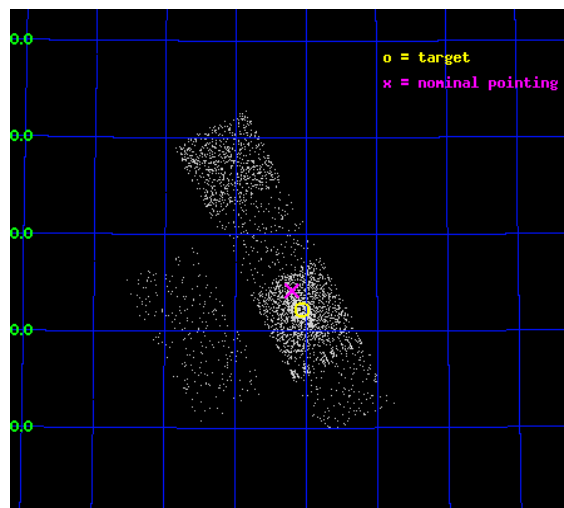
L2 Processing Date : Aug 30 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
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
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

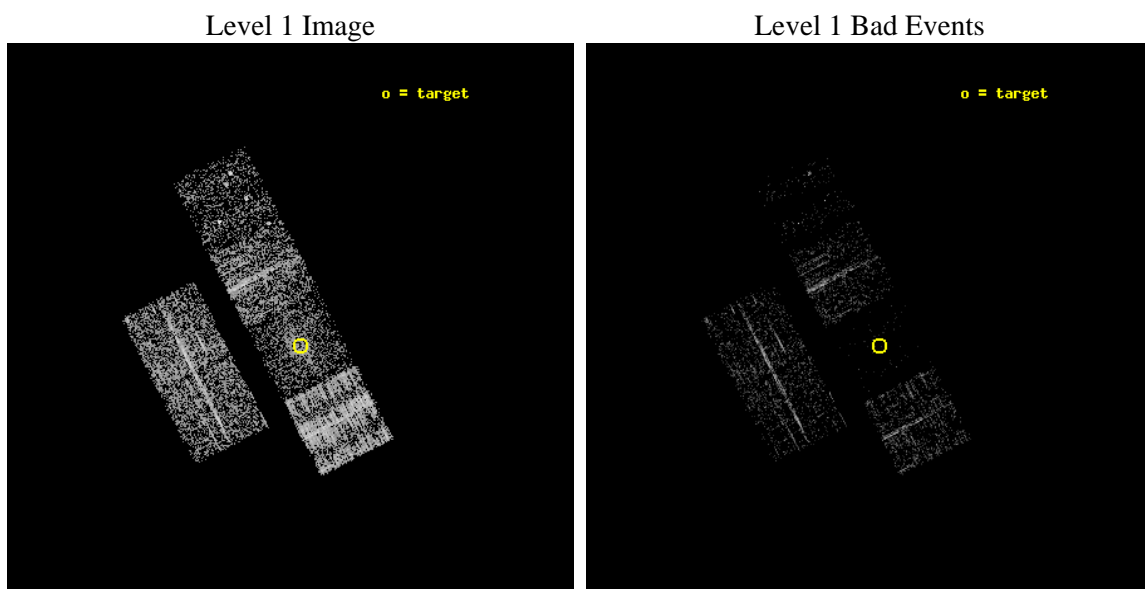
seq_num	100002	Sequence number
obs_id	1749	Observation id
title	AXAF LOW ENERGY SPECTROSCOPY AND PHOTOMETRIC IMAGING OF COMETARY X-RAY EMISSION FROM COMET P/TEMPEL 2	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	LINEAR 1999 S4	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	65.76345	Observer's specified target RA [deg]
dec_targ	60.37076	Observer's specified target Dec [deg]
ra_nom	65.800892544219	Nominal RA [deg]
dec_nom	60.403184581977	Nominal Dec [deg]
roll_nom	62.784695266451	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1190.4000010937	Sum of GTIs [s]
livetime	1175.3264395071	Livetime [s]
ontime2	1190.4000010937	Sum of GTIs [s]
ontime3	1190.4000010937	Sum of GTIs [s]
ontime5	1190.4000010937	Sum of GTIs [s]
ontime6	1190.4000010937	Sum of GTIs [s]
ontime7	1190.4000010937	Sum of GTIs [s]
ontime8	1190.4000010937	Sum of GTIs [s]
l2events	3501	Number of level 2 events



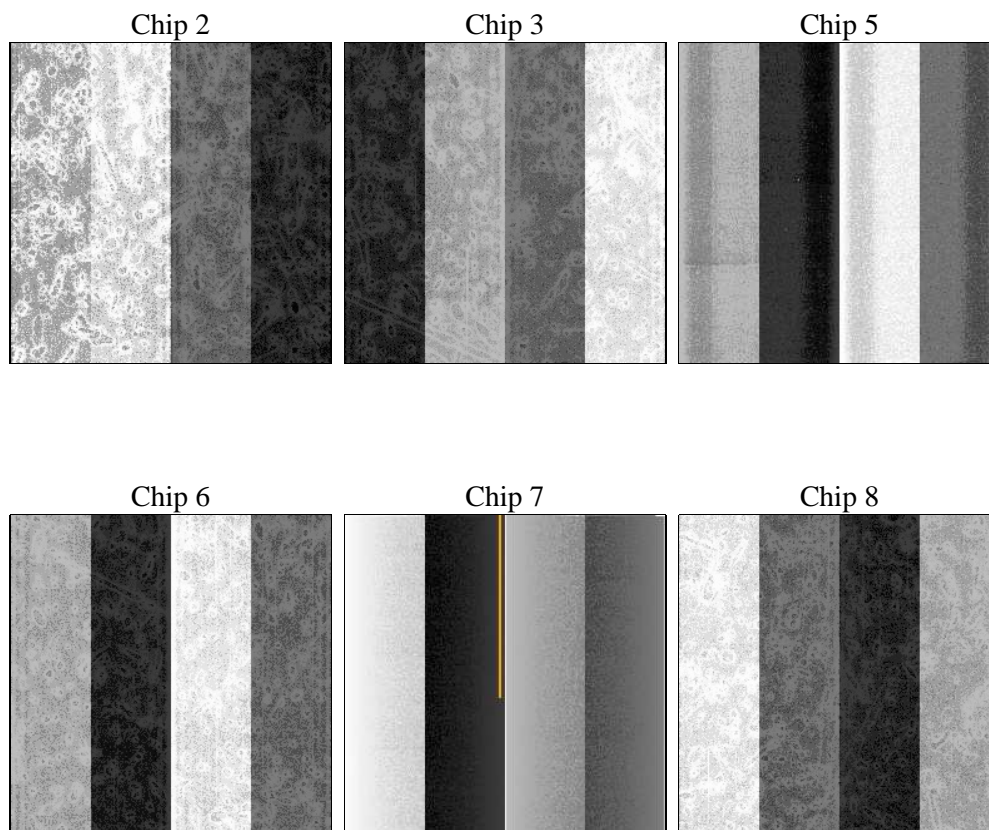
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1190.4000010937	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	1190.4000010937	Sum of GTIs [s]
date	2012-08-30T04:06:17	Date and time of file creation	ontime3	1190.4000010937	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	1190.4000010937	Sum of GTIs [s]
			ontime6	1190.4000010937	Sum of GTIs [s]
			ontime7	1190.4000010937	Sum of GTIs [s]
			ontime8	1190.4000010937	Sum of GTIs [s]
			l1events	36227	Number of level 1 events

### 2.1.4 Events

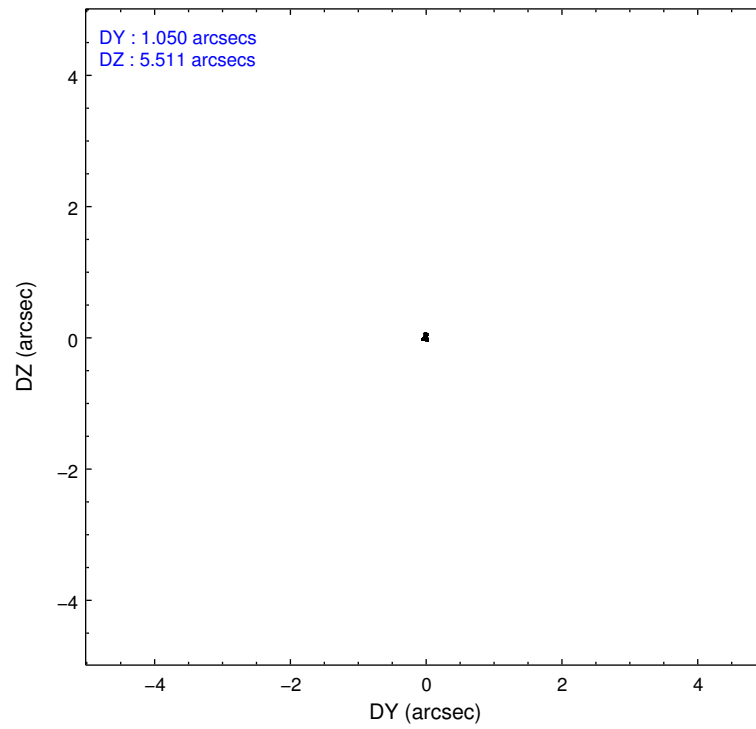
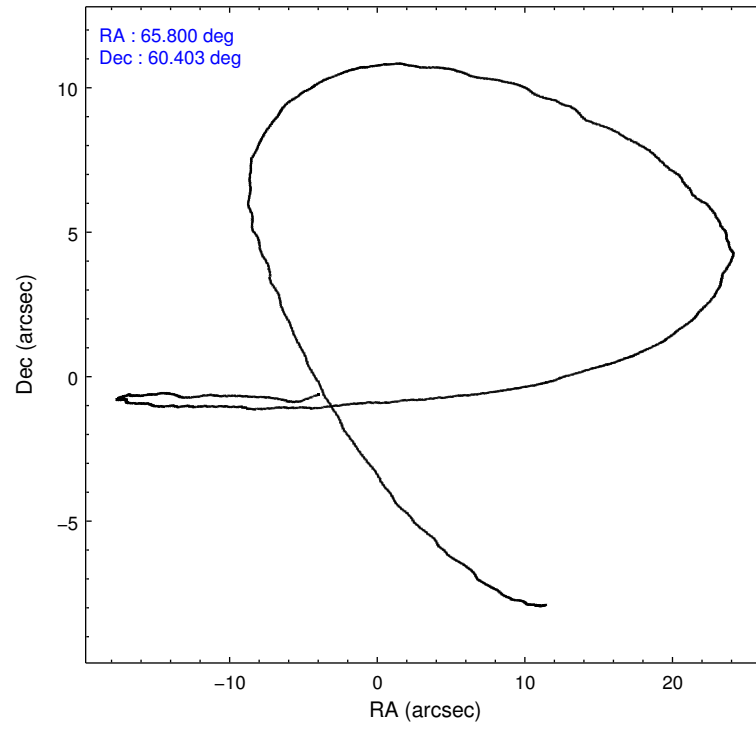
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	6446	5703	2683	5888	2650	12857
rejected events	6000	5548	1213	5507	784	6967
rejected %	93%	97%	45%	93%	29%	54%

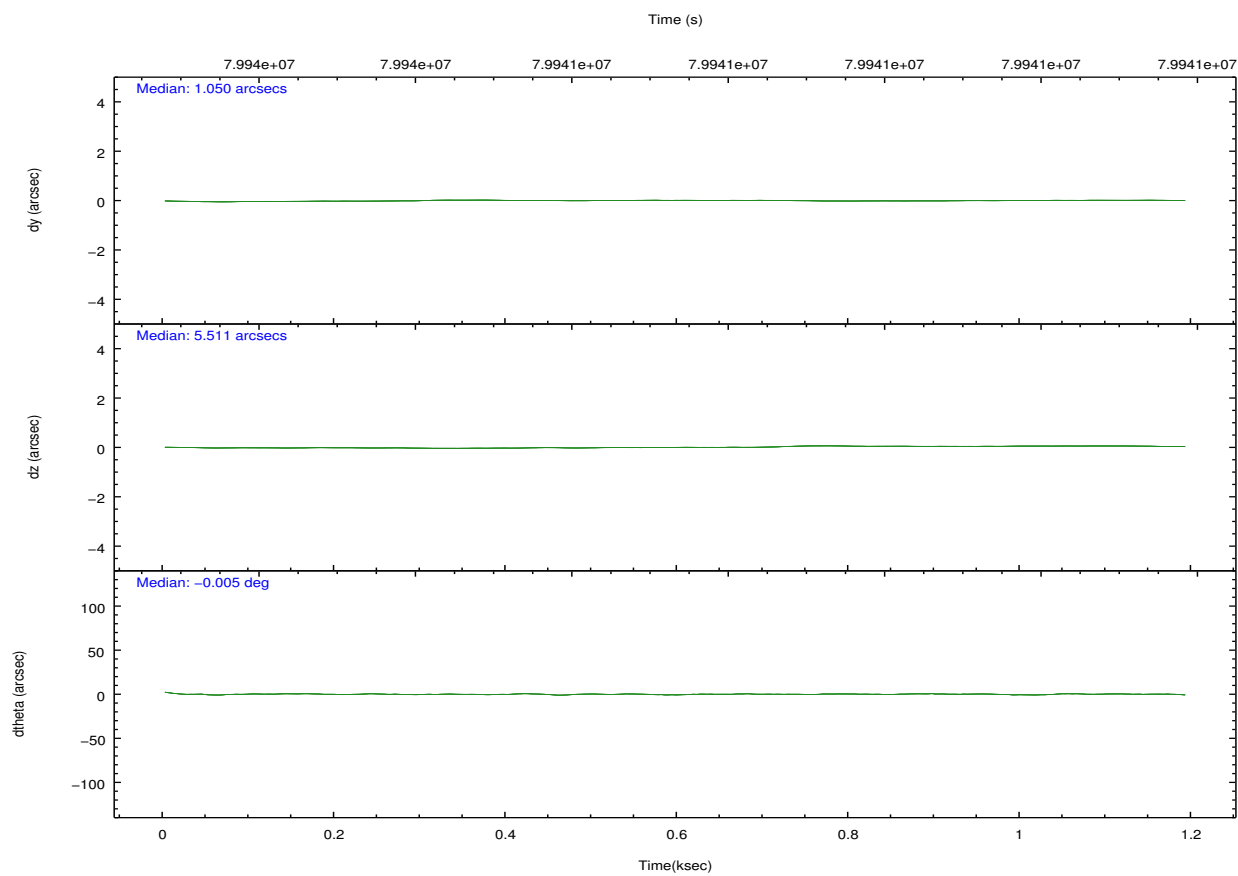
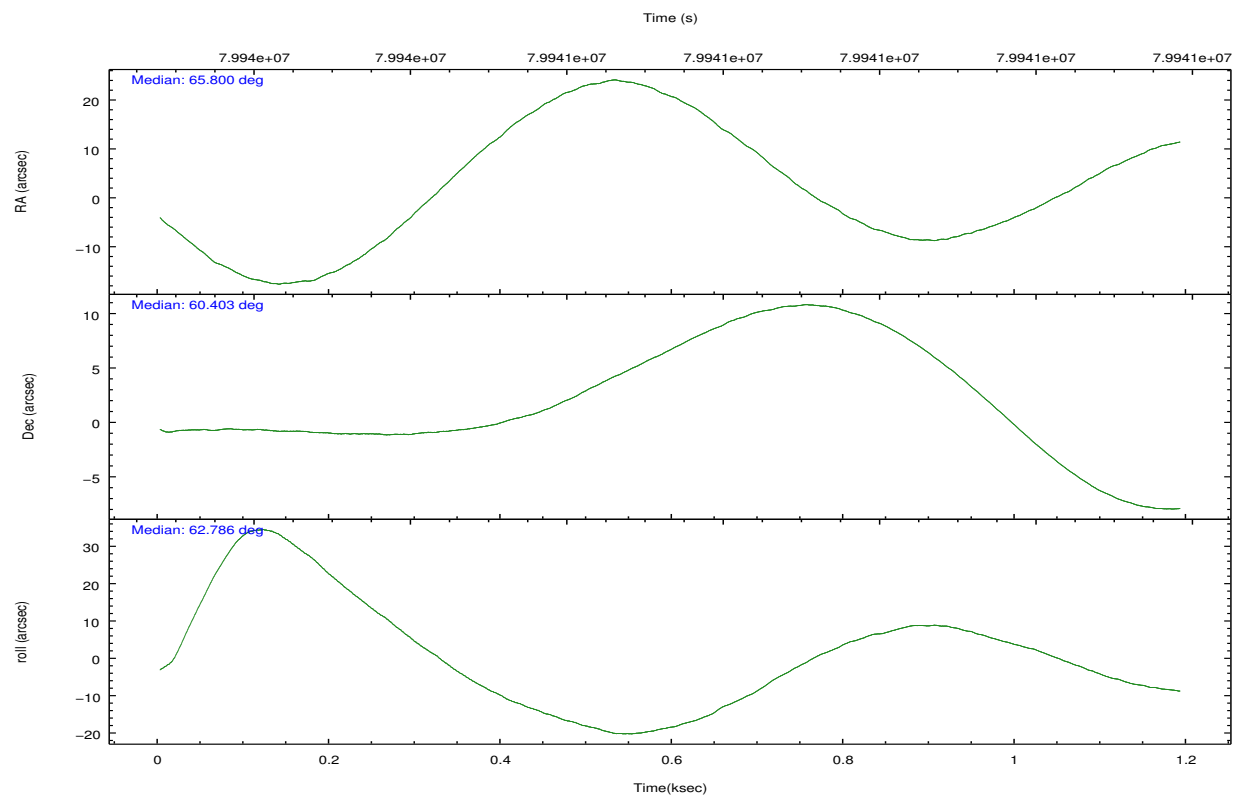
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	299	115	891	295	1009	2700
	4%	2%	33%	5%	38%	21%
grade 1 events	2	2	20	3	1	26
	0%	0%	0%	0%	0%	0%
grade 2 events	144	23	514	91	618	724
	2%	0%	19%	1%	23%	5%
grade 3 events	32	30	158	32	297	1475
	0%	0%	5%	0%	11%	11%
grade 4 events	48	30	161	30	252	1289
	0%	0%	6%	0%	9%	10%
grade 5 events	12	6	113	2	55	85
	0%	0%	4%	0%	2%	0%
grade 6 events	39	7	122	21	235	1172
	0%	0%	4%	0%	8%	9%
grade 7 events	5870	5490	704	5414	183	5386
	91%	96%	26%	91%	6%	41%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	65.804616	65.80089254421907	Subarray requested	NONE	NONE
[deg] Pointing Dec	60.376003	60.40318458197662	Alternating exposures requested	N	N
[deg] Pointing Roll	62.624853	62.78469526645078	[s] Primary exposure time	0.000000	3.2
[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)	79940329.184000	79939953.106884			
Observation start date	2000-07-14T05:37:45	2000-07-14T05:32:33			
[s] Observation end time (MET)	79941329.184000	79941463.44444001			
Observation end date	2000-07-14T05:54:25	2000-07-14T05:57:43			
Read mode	TIMED	TIMED			

## 2.3 Aspect





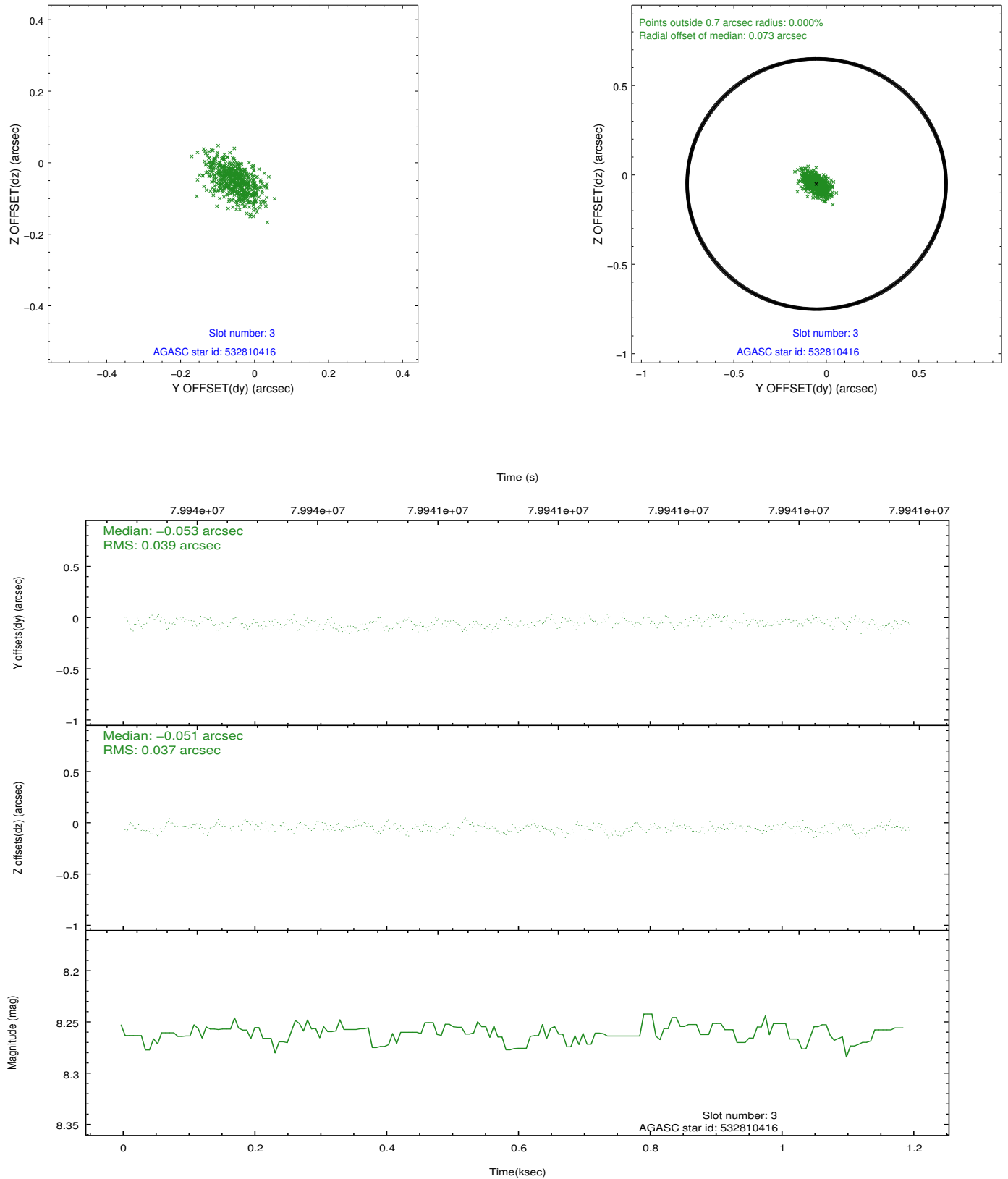
### Slot Statistics

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	291	-0.046	-0.004	0.007	0.011	0.000000	0.000000	-753.66	-1726.66
1	FID	ACIS-S-4	7.21	291	0.017	0.023	0.005	0.009	0.000000	0.000000	2157.14	176.11
2	FID	ACIS-S-5	7.23	291	-0.002	-0.011	0.006	0.010	0.000000	0.000000	-1799.27	176.07
3	GUIDE	532810416	8.26	582	-0.053	-0.051	0.057	0.096	65.589506	60.260431	-545.00	148.36
4	GUIDE	532815480	8.47	582	-0.039	0.046	0.077	0.124	65.380825	60.792672	991.51	1350.51
5	GUIDE	489032152	8.89	582	0.070	0.118	0.067	0.111	66.116960	59.873927	-1342.05	-1330.93
6	GUIDE	532820840	9.19	579	0.008	-0.065	0.084	0.139	65.827585	60.819790	1435.53	694.67
7	GUIDE	532808640	9.51	581	0.019	-0.036	0.088	0.143	65.235766	60.163854	-1139.71	555.00

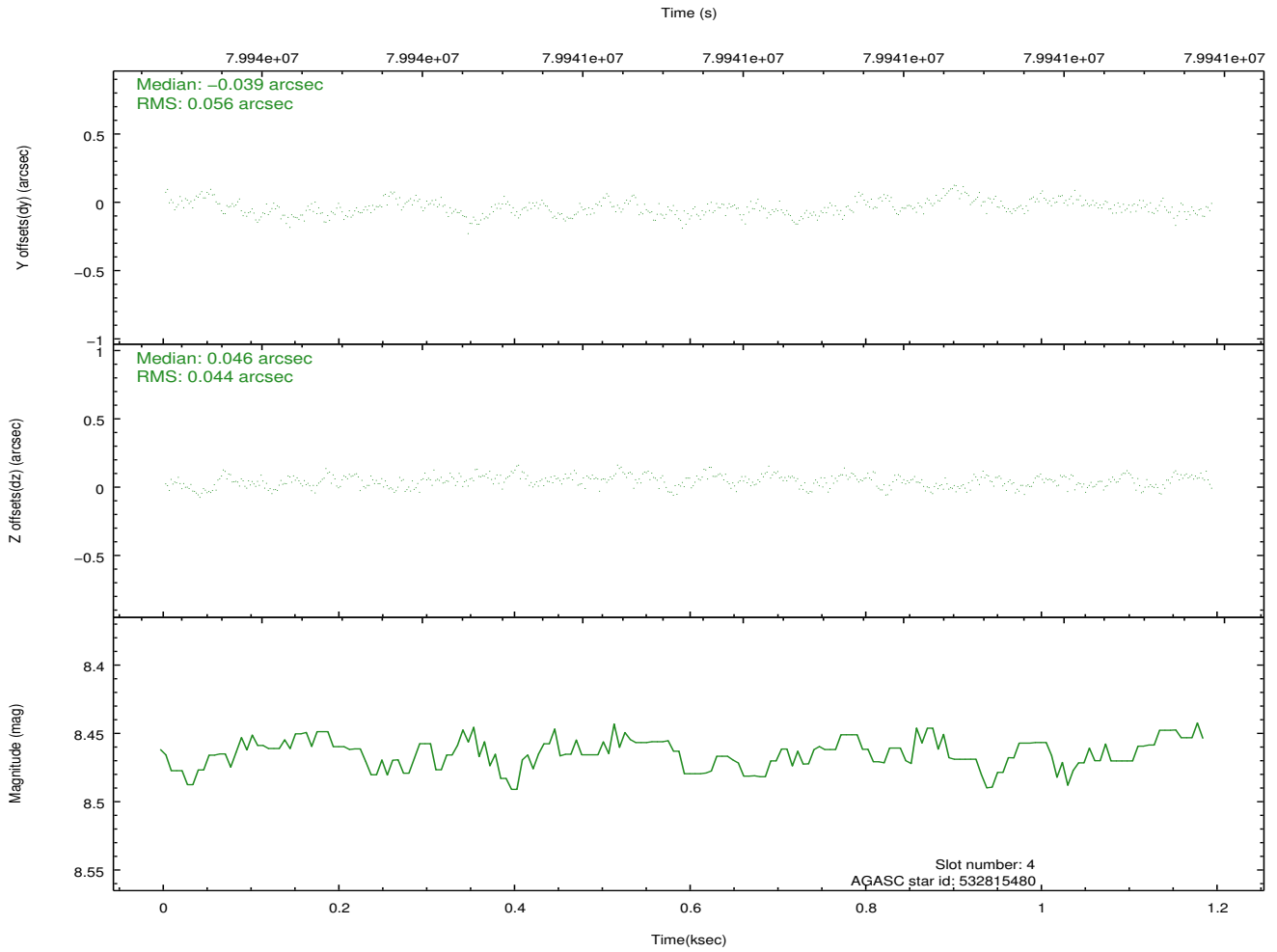
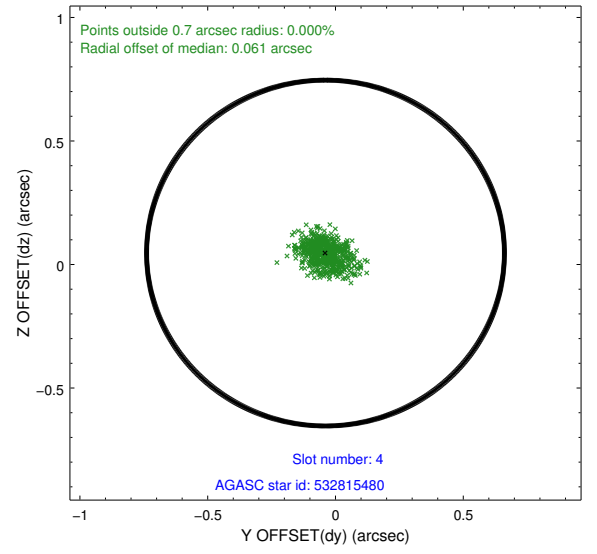
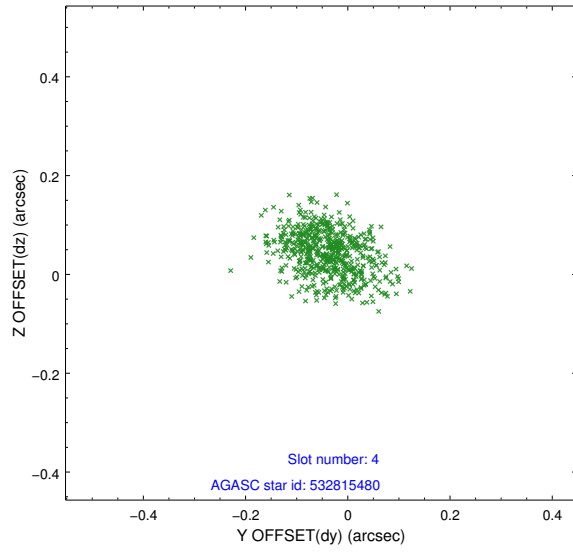


## 2.4 Star Slots

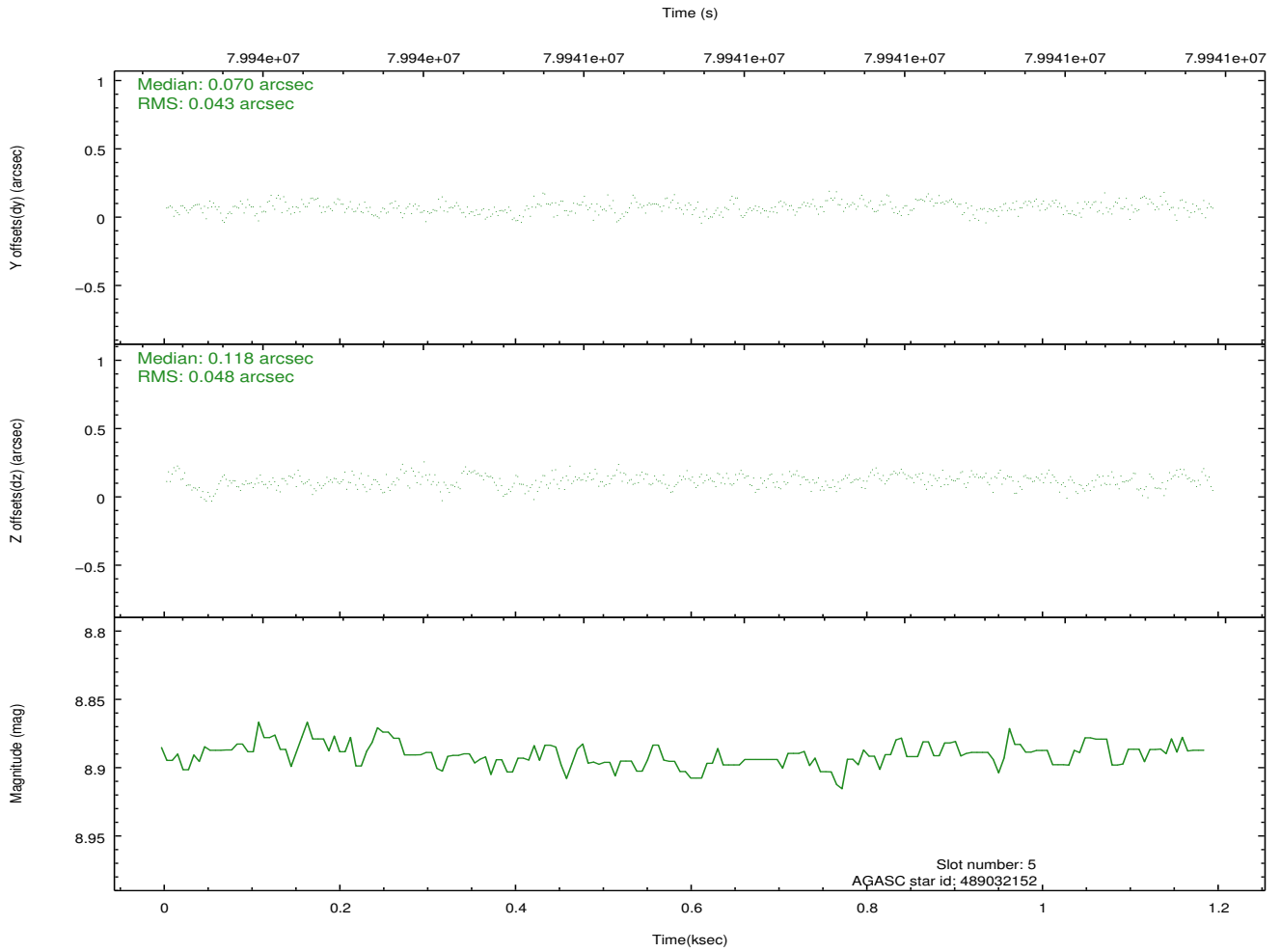
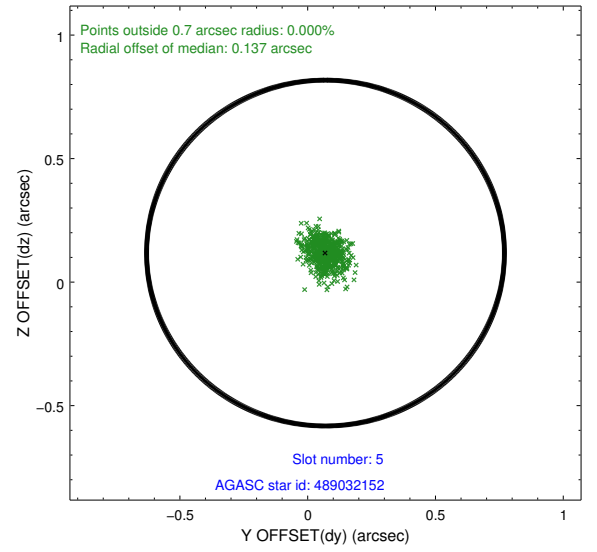
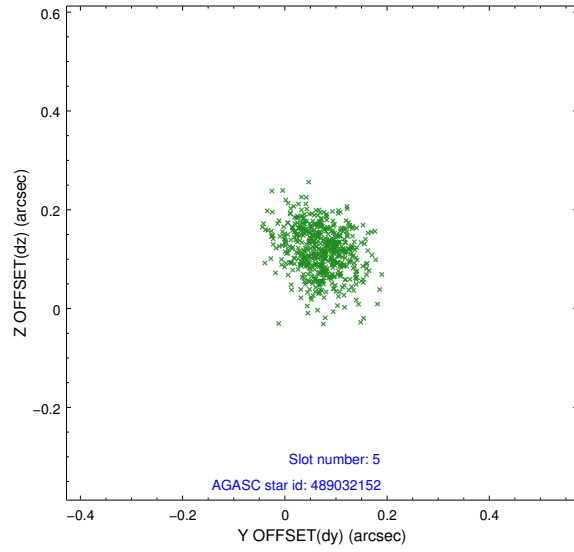
### 2.4.1 Slot 3



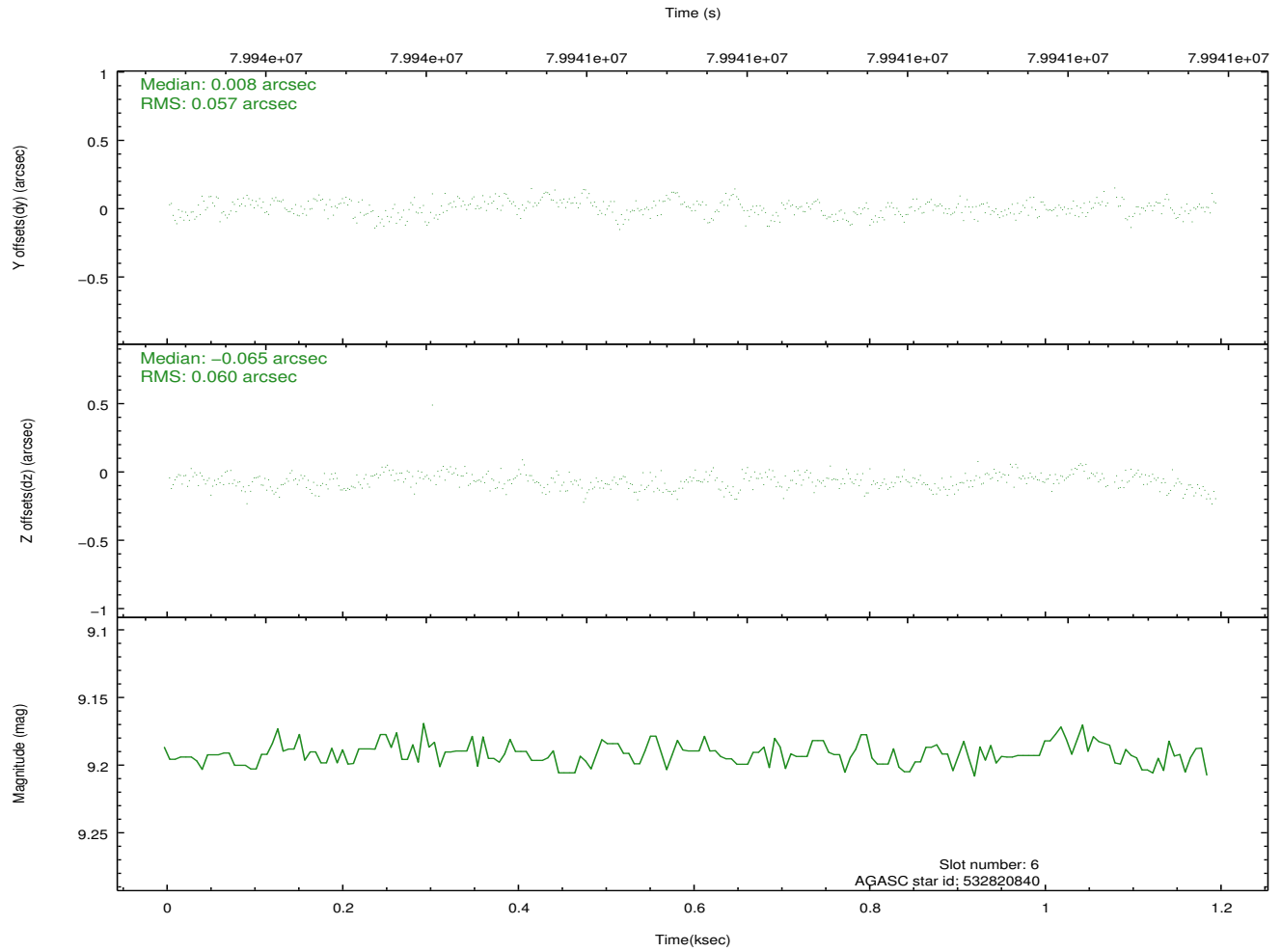
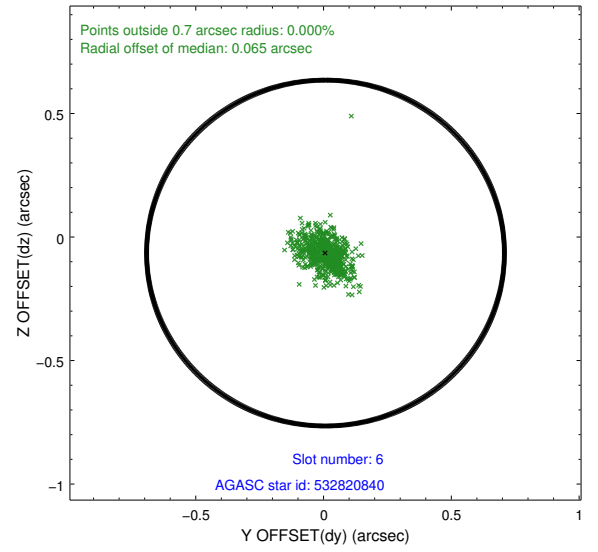
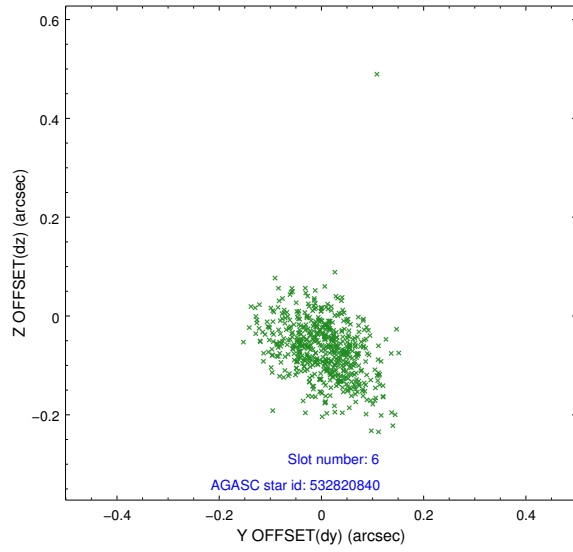
## 2.4.2 Slot 4



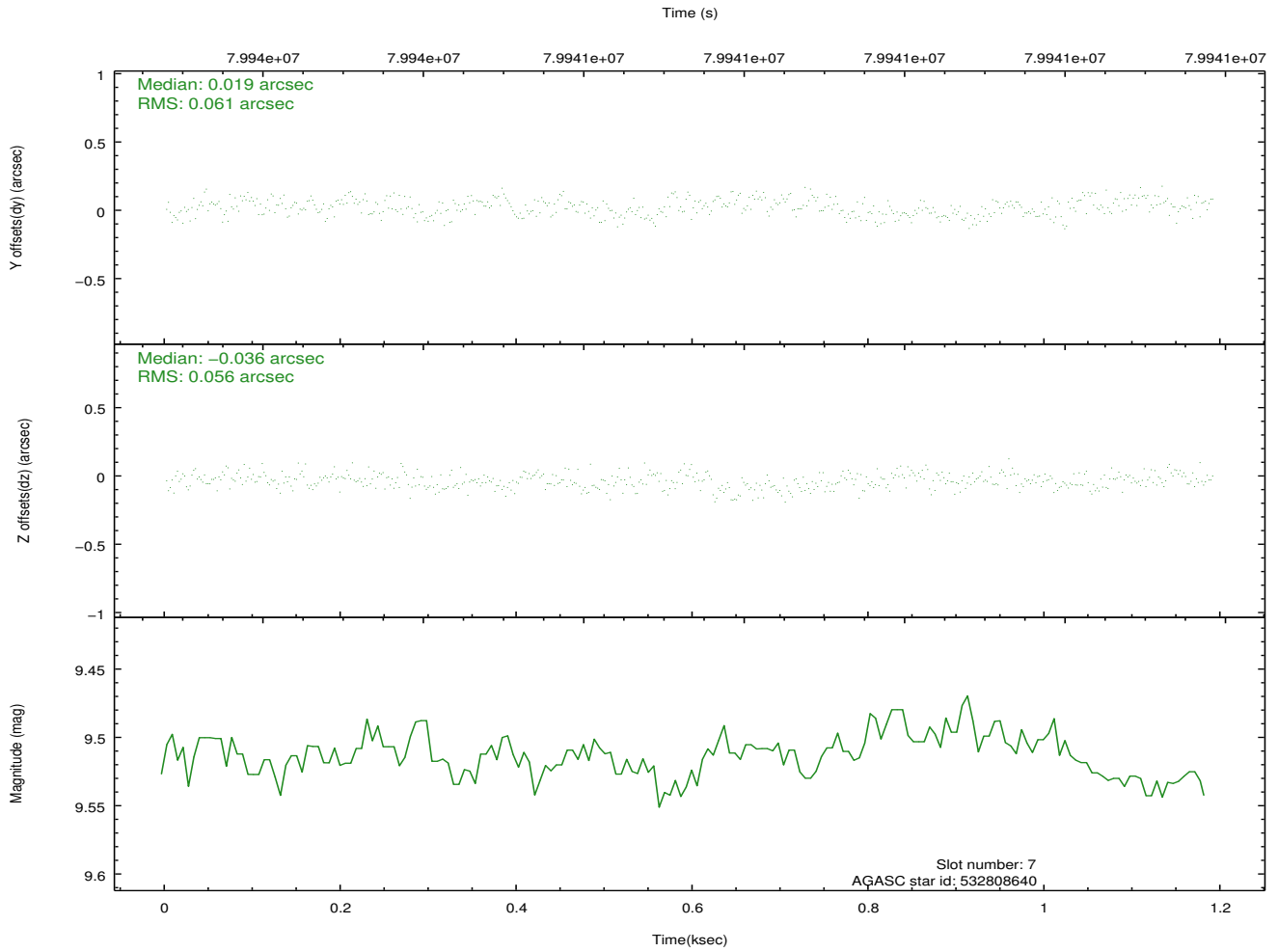
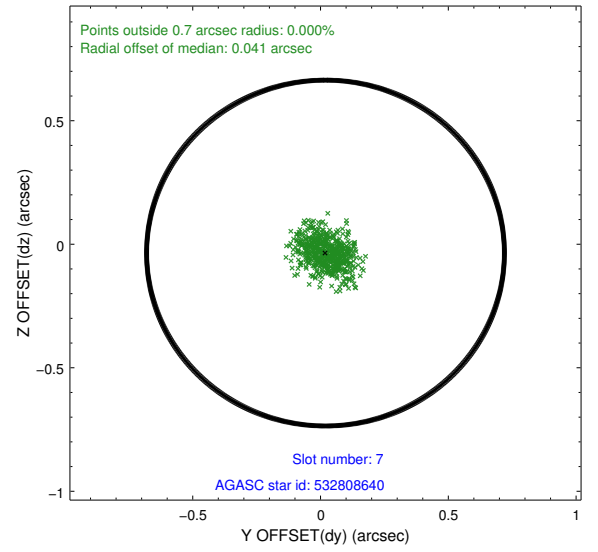
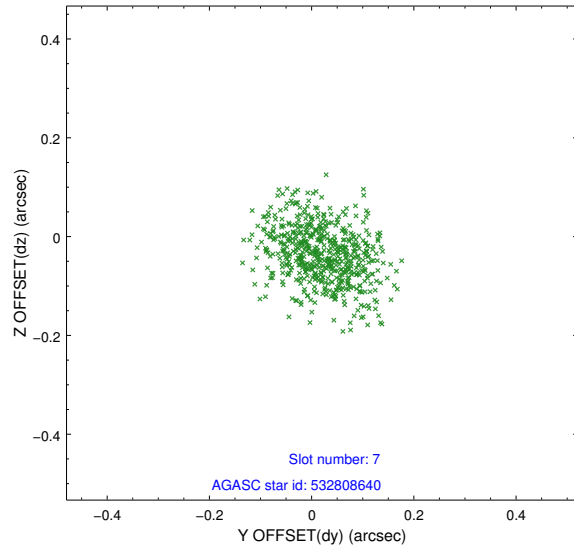
### 2.4.3 Slot 5



## 2.4.4 Slot 6

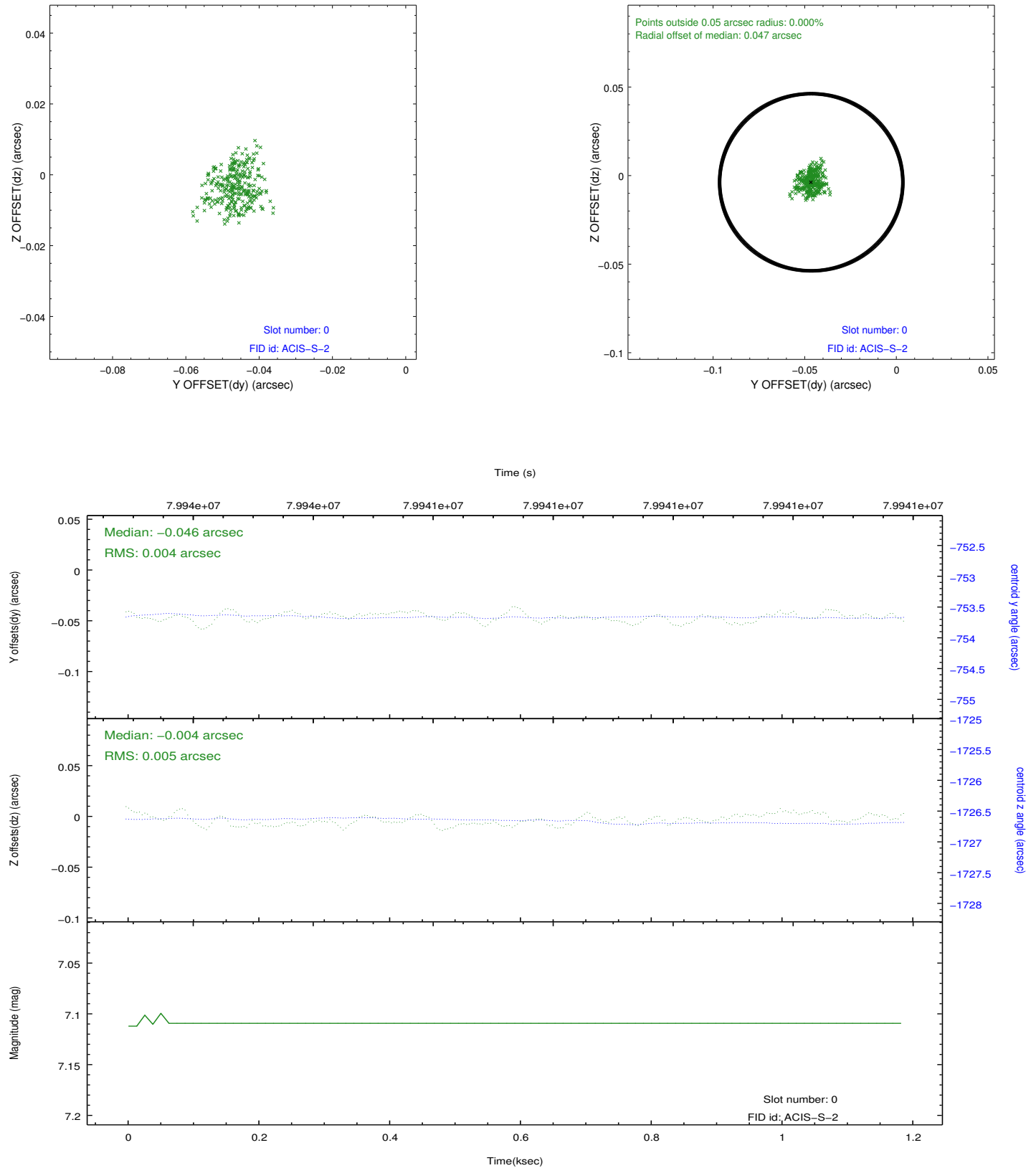


## 2.4.5 Slot 7

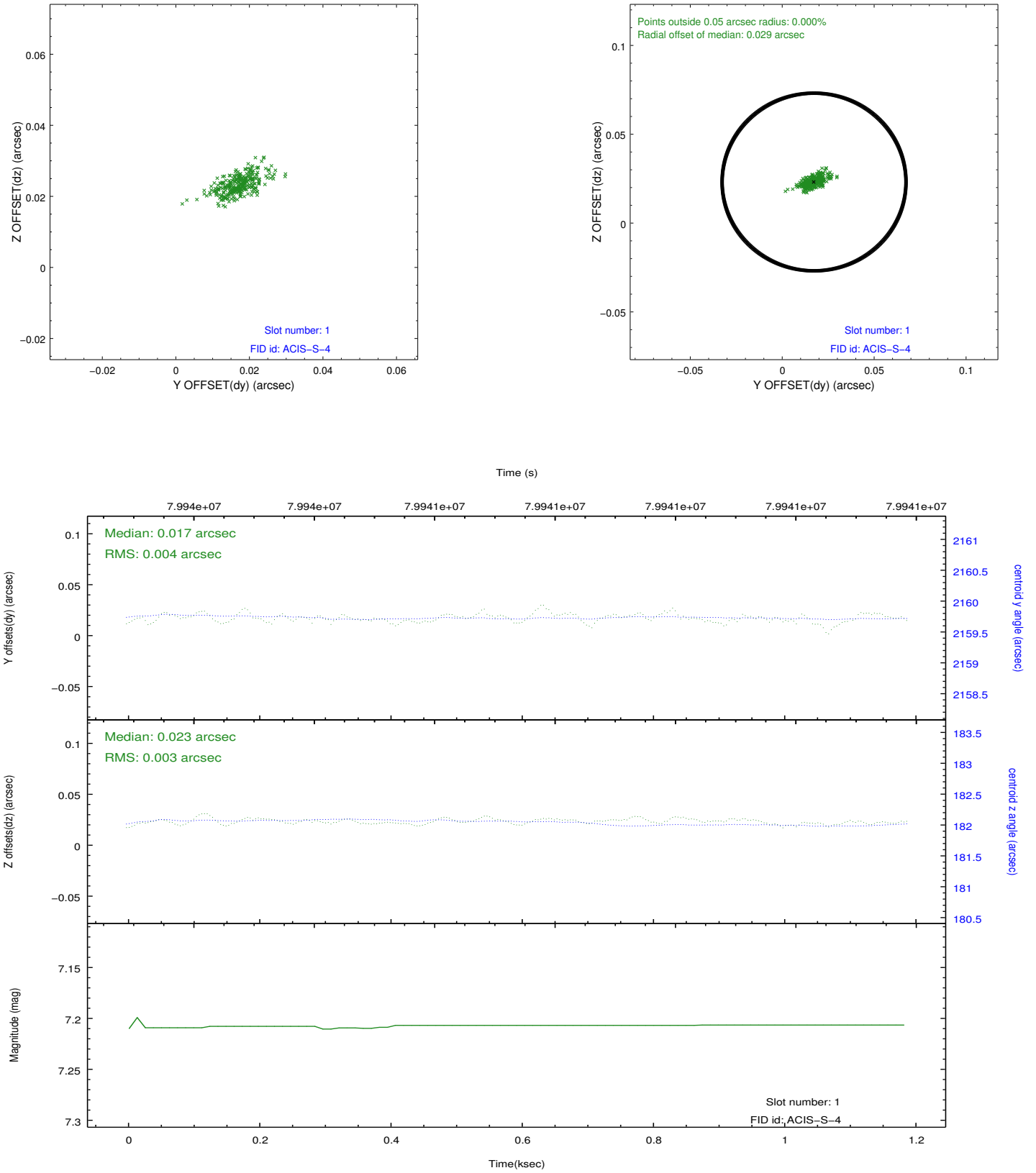


## 2.5 FID Slots

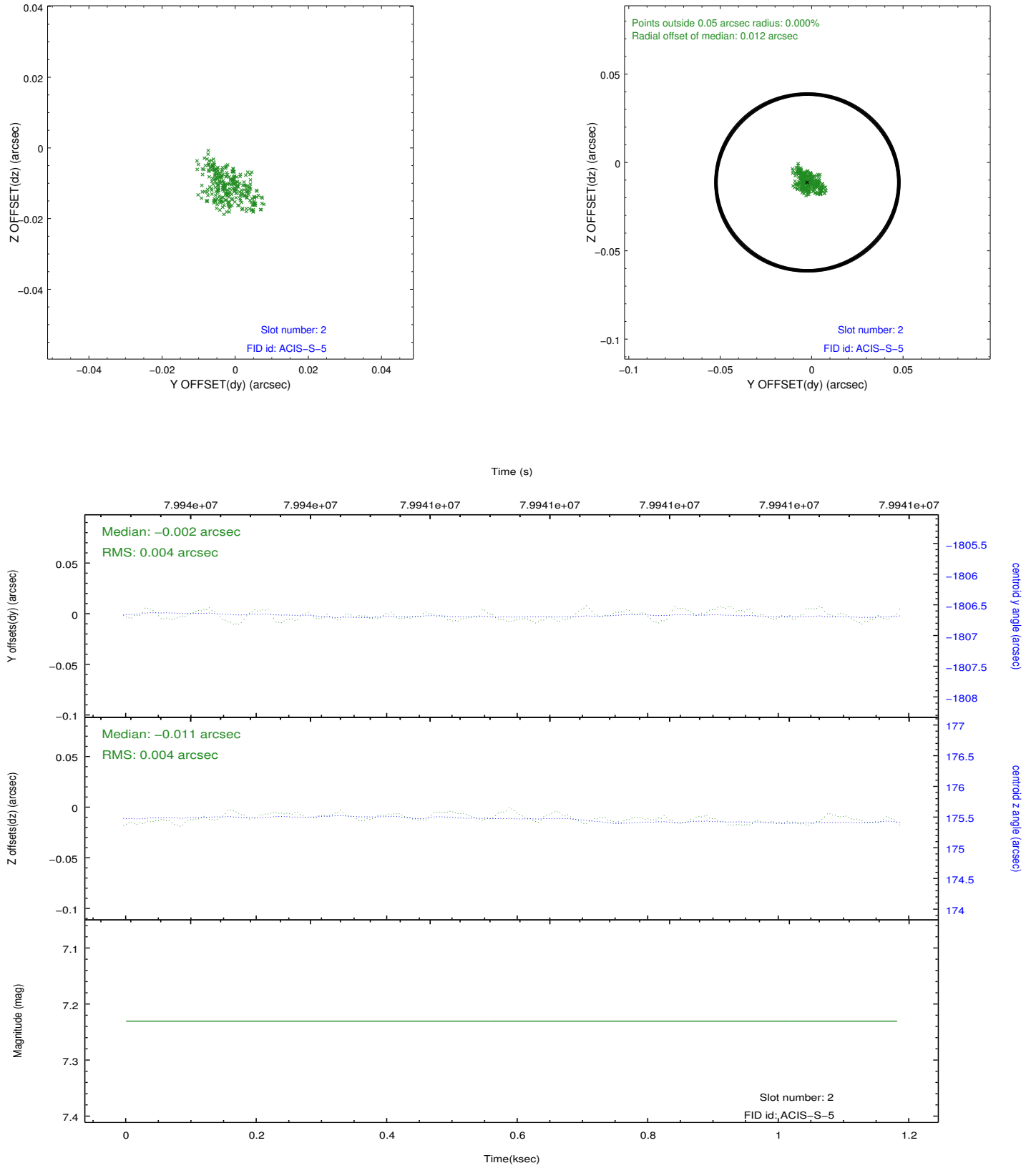
### 2.5.1 Slot 0



## 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)	2012.09.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.19

### A.2 Comments