

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7866 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Apr 21 2012

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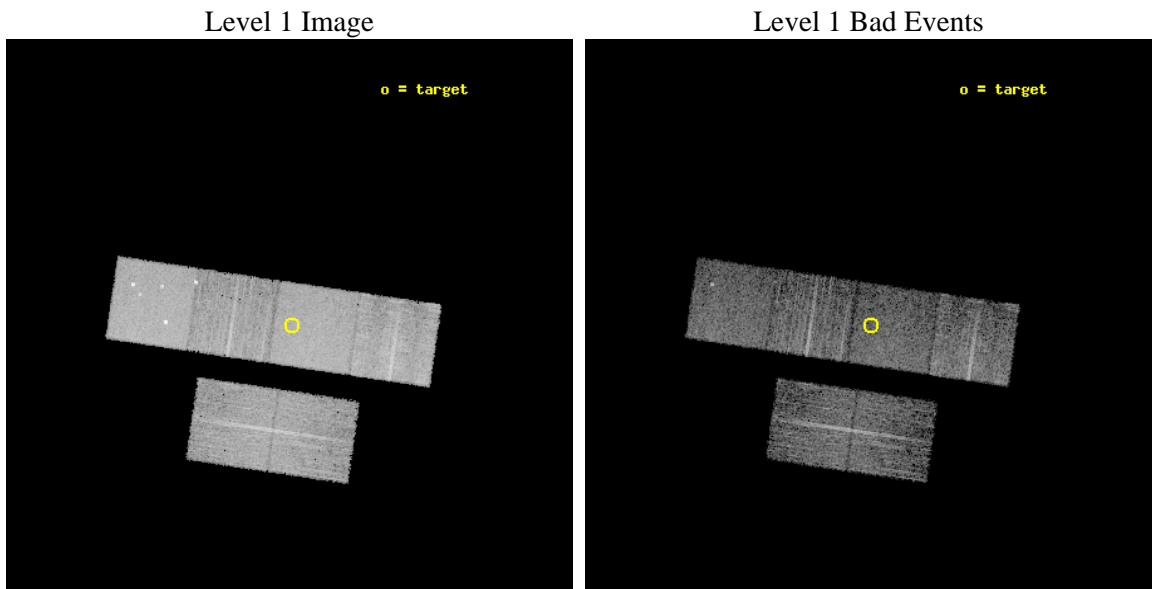
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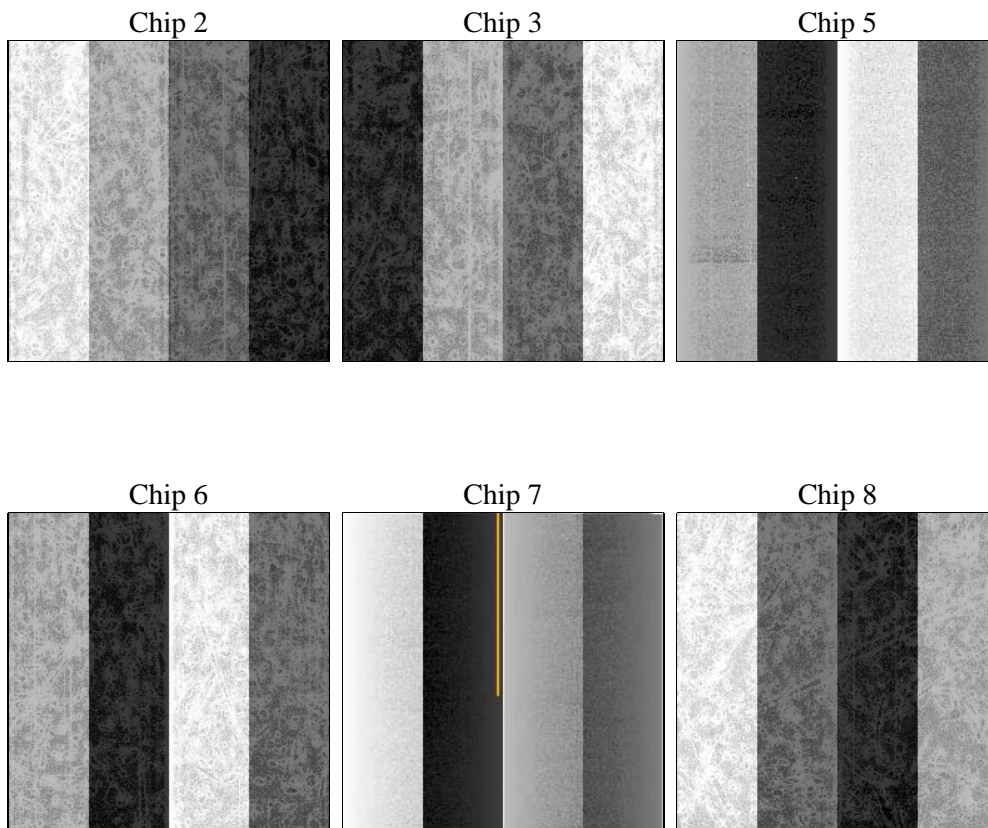
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5119.9999809861	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	5119.9999809861	Sum of GTIs [s]
date	2012-04-21T13:33:34	Date and time of file creation	ontime3	5119.9999809861	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5119.9999809861	Sum of GTIs [s]
			ontime6	5119.9999809861	Sum of GTIs [s]
			ontime7	5119.9999809861	Sum of GTIs [s]
			ontime8	5119.9999809861	Sum of GTIs [s]
			l1events	372375	Number of level 1 events

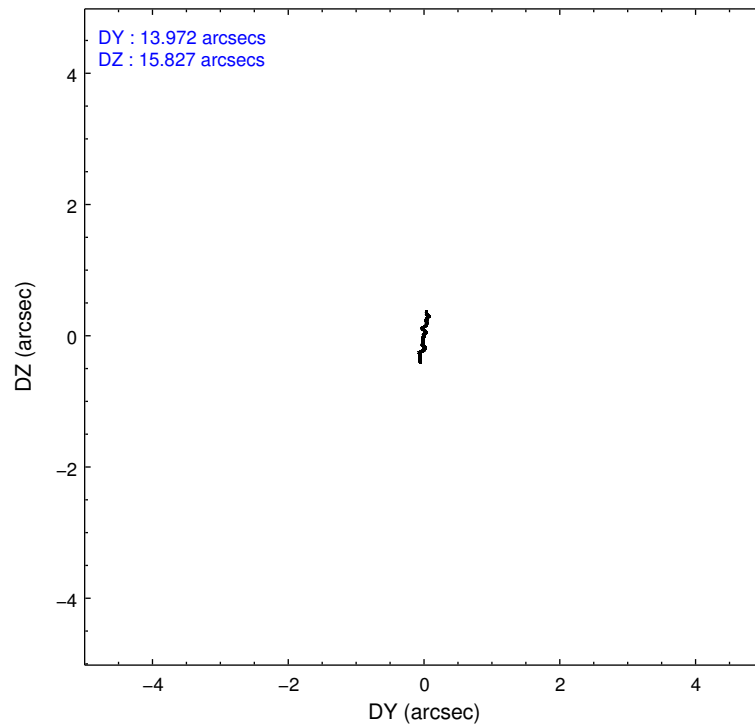
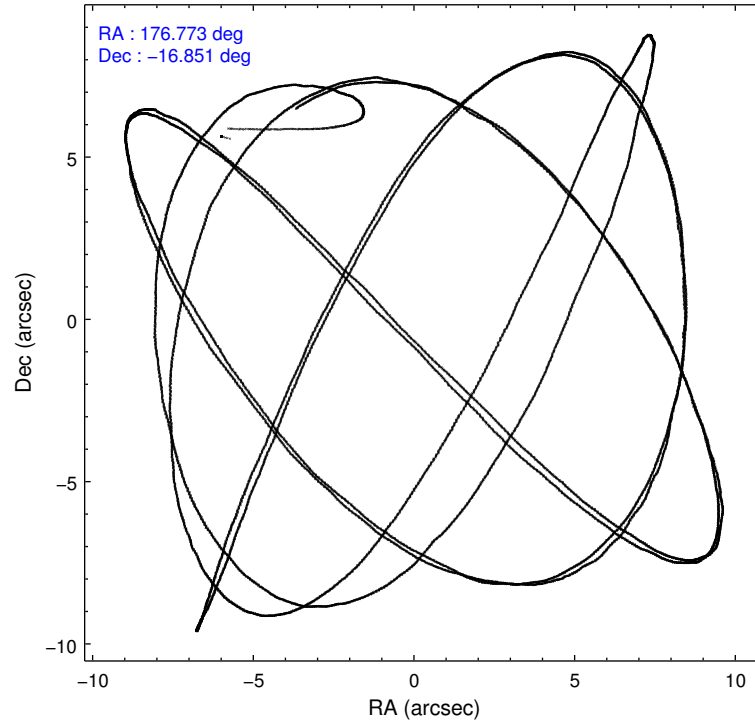
### 2.1.4 Events

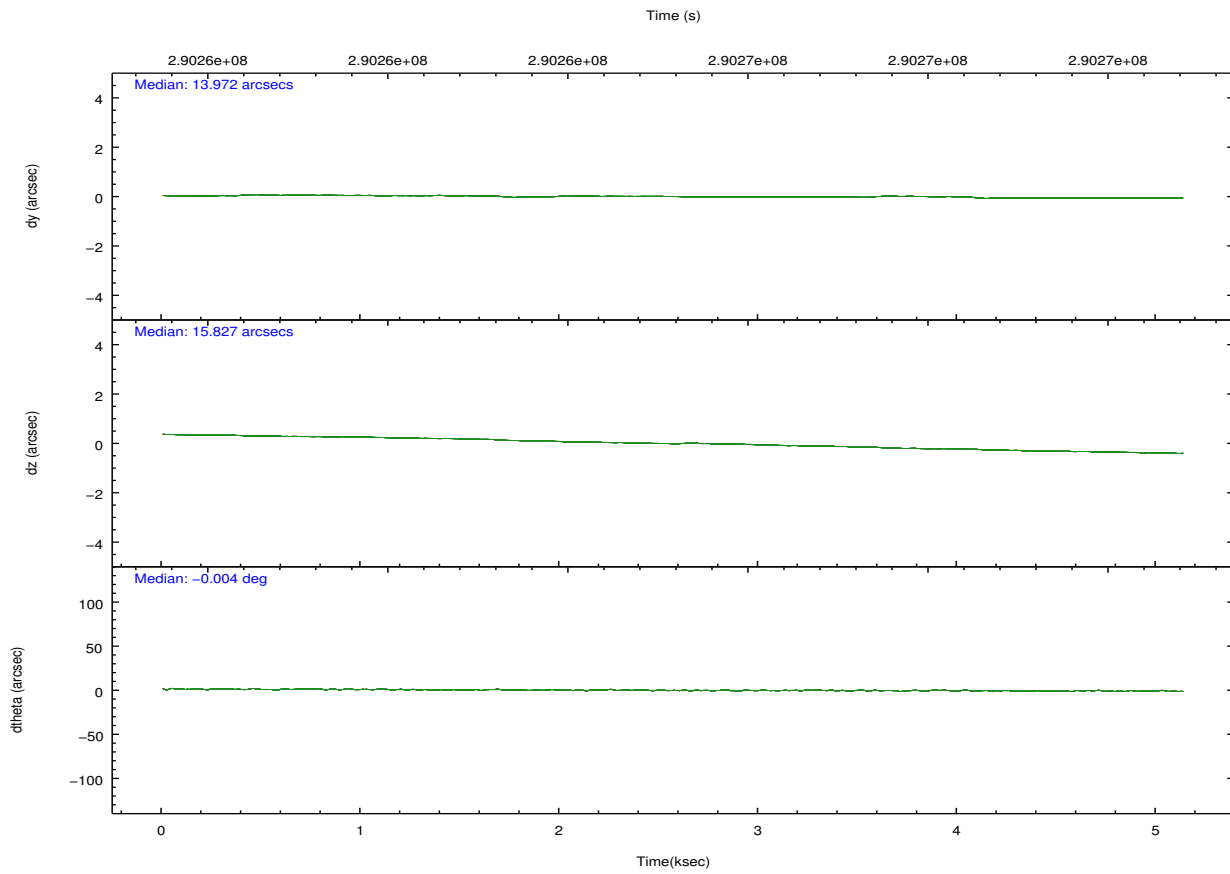
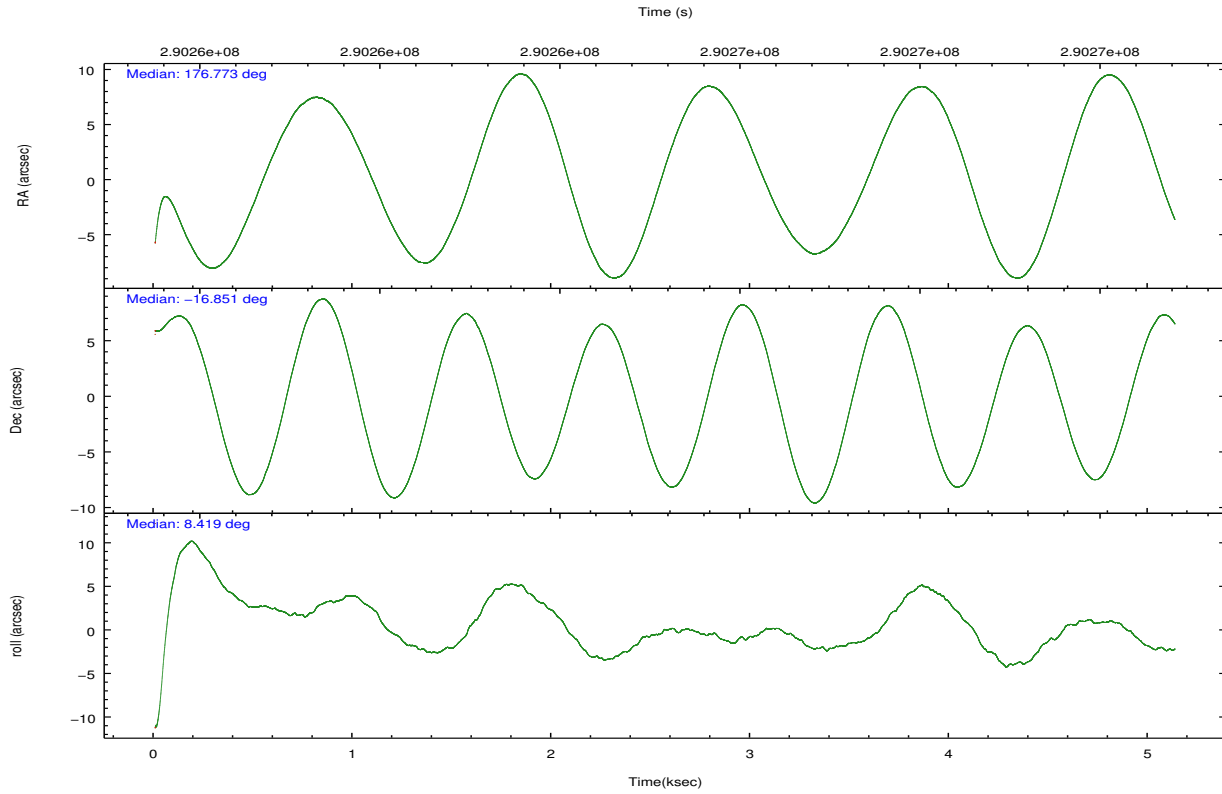
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	52637	48593	81572	52446	70542	66585	grade 0 events	2767	2546	5303	2359	2497	4691
rejected events	46889	43122	46303	46810	43549	52773		5%	5%	6%	4%	3%	7%
rejected %	89%	88%	56%	89%	61%	79%	grade 1 events	33	31	161	34	75	59
								0%	0%	0%	0%	0%	0%
							grade 2 events	1281	1252	11007	1409	5878	3342
								2%	2%	13%	2%	8%	5%
							grade 3 events	572	540	1455	634	2607	1504
								1%	1%	1%	1%	3%	2%
							grade 4 events	573	590	1382	543	2584	1390
								1%	1%	1%	1%	3%	2%
							grade 5 events	2179	2265	5828	2446	6597	3164
								4%	4%	7%	4%	9%	4%
							grade 6 events	1013	1012	19283	1201	15831	3862
								1%	2%	23%	2%	22%	5%
							grade 7 events	44219	40357	37153	43820	34473	48573
								84%	83%	45%	83%	48%	72%

## 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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	176.750905	176.7730146255046	Subarray requested	NONE	NONE
[deg] Pointing Dec	-16.868773	-16.85139483010829	Alternating exposures requested	N	N
[deg] Pointing Roll	8.259895	8.422896067441718	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	290263148.184000	290261883.61496			
Observation start date	2007-03-14T12:38:03	2007-03-14T12:18:03			
[s] Observation end time (MET)	290268148.184000	290269282.57781			
Observation end date	2007-03-14T14:01:23	2007-03-14T14:21:22			
Read mode	TIMED	TIMED			

## 2.3 Aspect



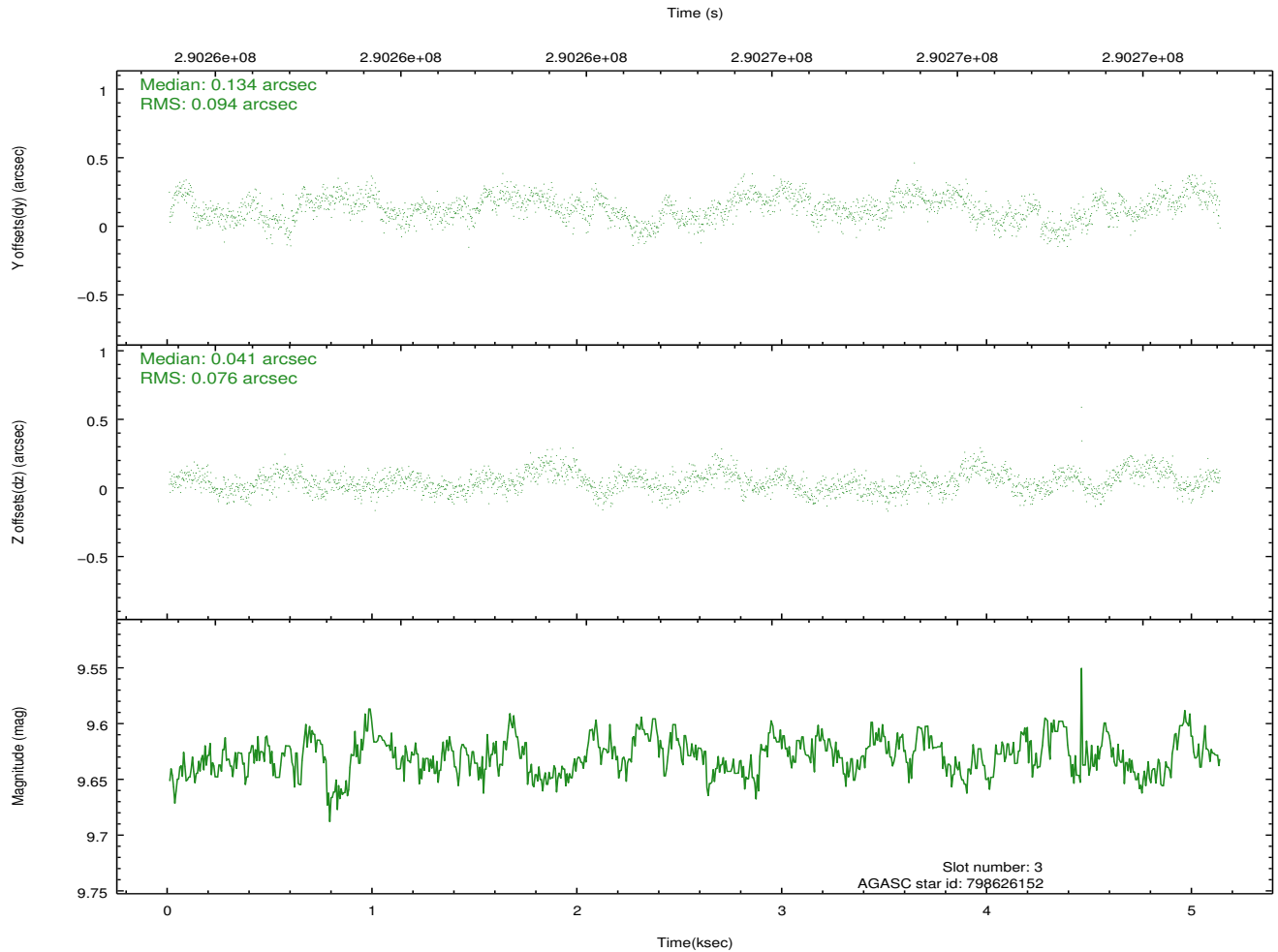
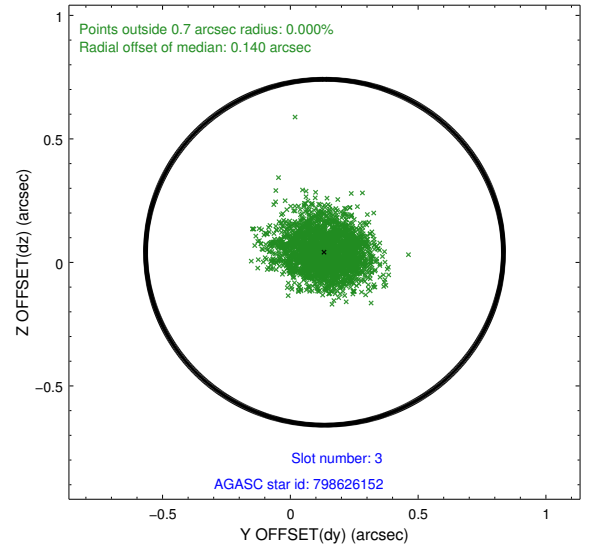
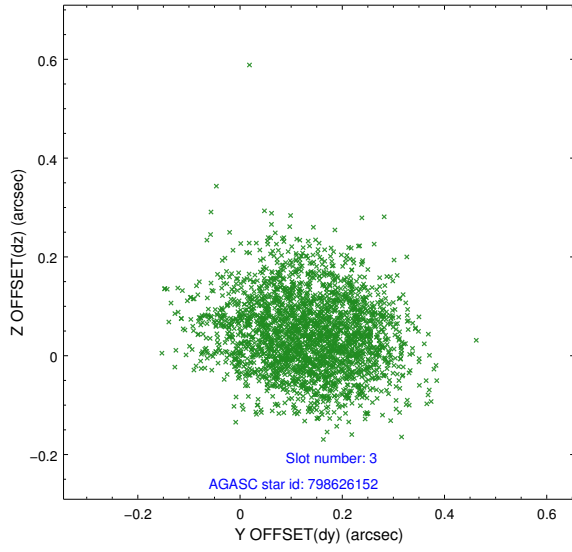


### Slot Statistics

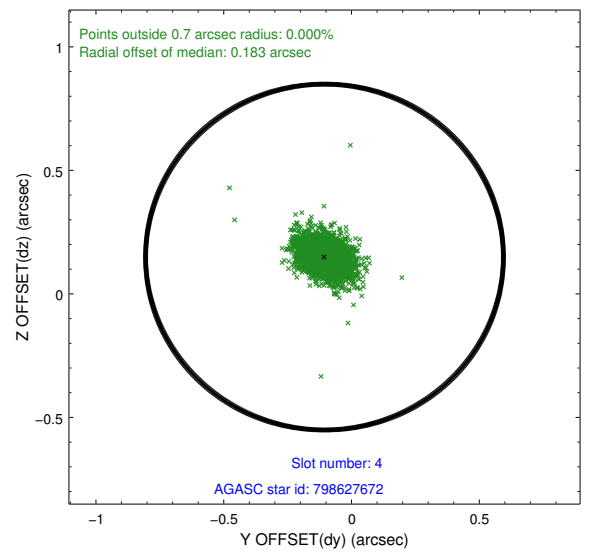
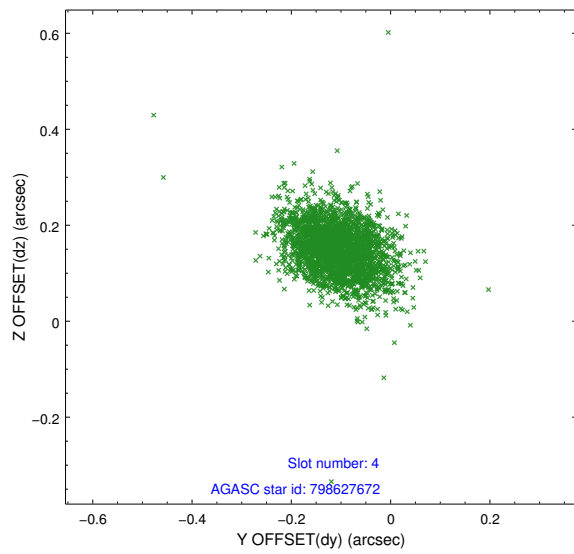
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1252	-0.066	-0.035	0.007	0.012	0.000000	0.000000	-766.97	-1737.21
1	FID	ACIS-S-4	7.19	1252	0.212	0.041	0.006	0.011	0.000000	0.000000	2146.03	170.14
2	FID	ACIS-S-5	7.22	1252	-0.176	0.002	0.007	0.012	0.000000	0.000000	-1818.42	165.09
3	GUIDE	798626152	9.63	2501	0.134	0.041	0.131	0.205	177.410917	-17.167968	2091.90	-1396.01
4	GUIDE	798627672	9.29	2499	-0.106	0.149	0.079	0.131	176.118797	-16.612177	-2024.87	1223.19
5	GUIDE	798627776	6.95	2503	-0.088	-0.133	0.051	0.088	177.218601	-16.597659	1735.96	732.60
6	GUIDE	798632600	9.28	2499	0.081	0.150	0.106	0.172	177.267441	-16.868270	1761.98	-255.87
7	GUIDE	798633040	7.29	2502	-0.026	-0.204	0.068	0.106	177.038851	-16.548462	1149.84	997.17

## 2.4 Star Slots

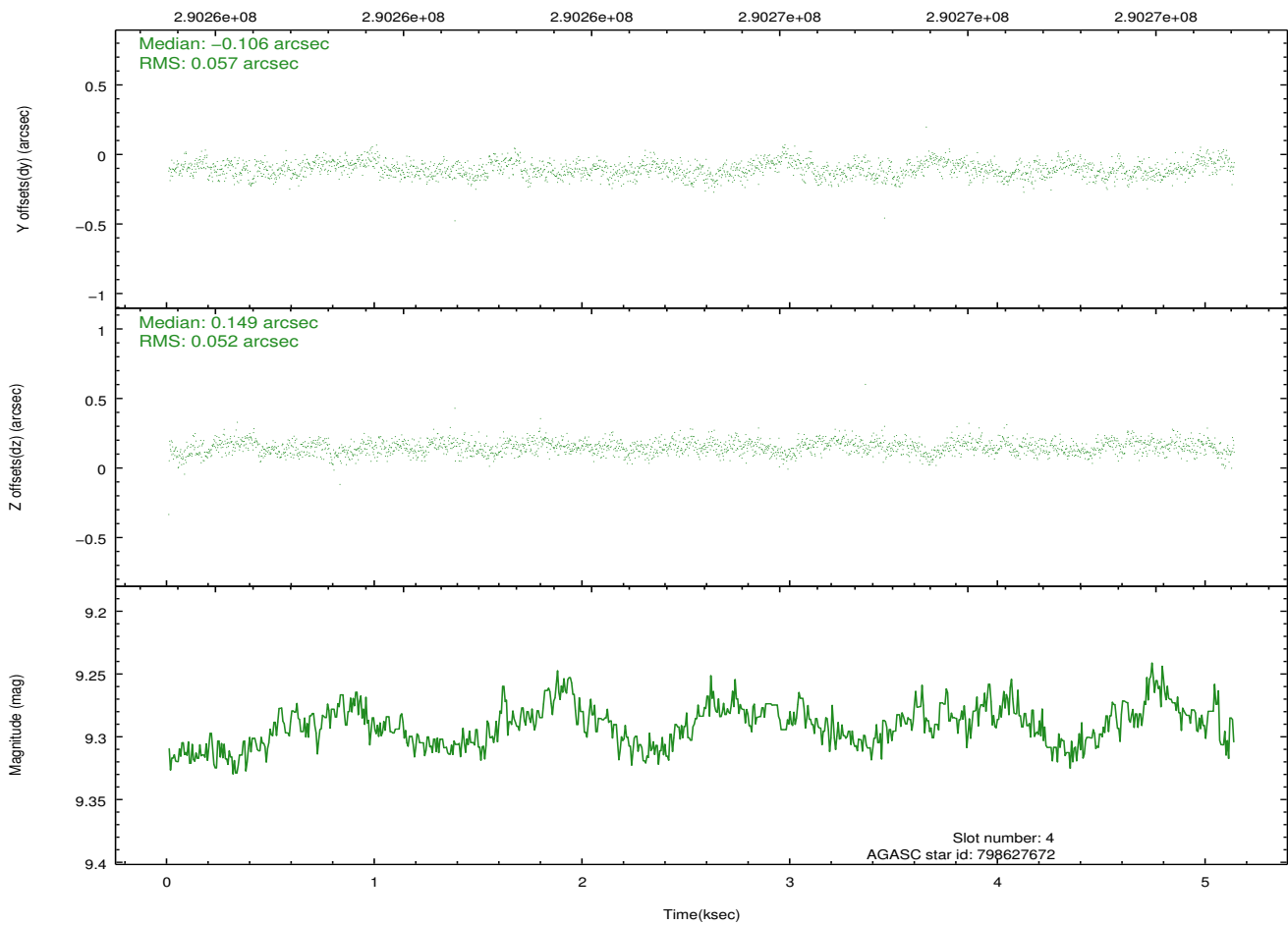
### 2.4.1 Slot 3



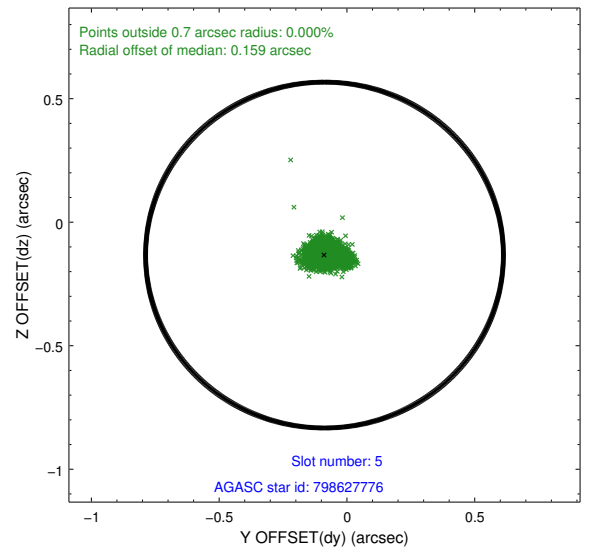
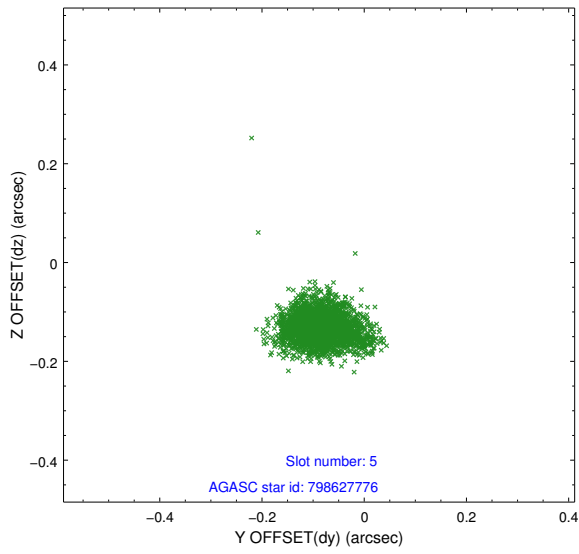
## 2.4.2 Slot 4



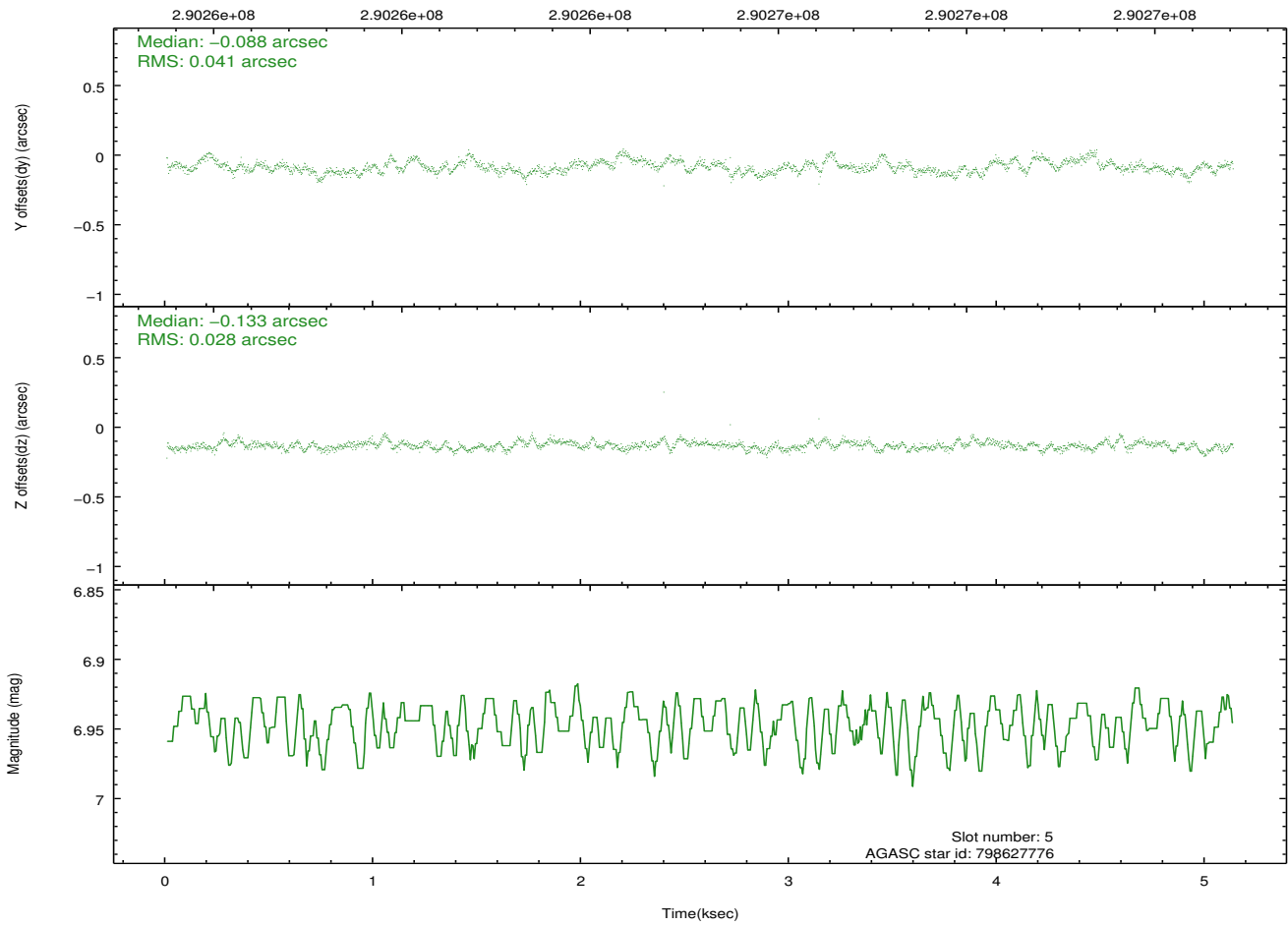
Time (s)



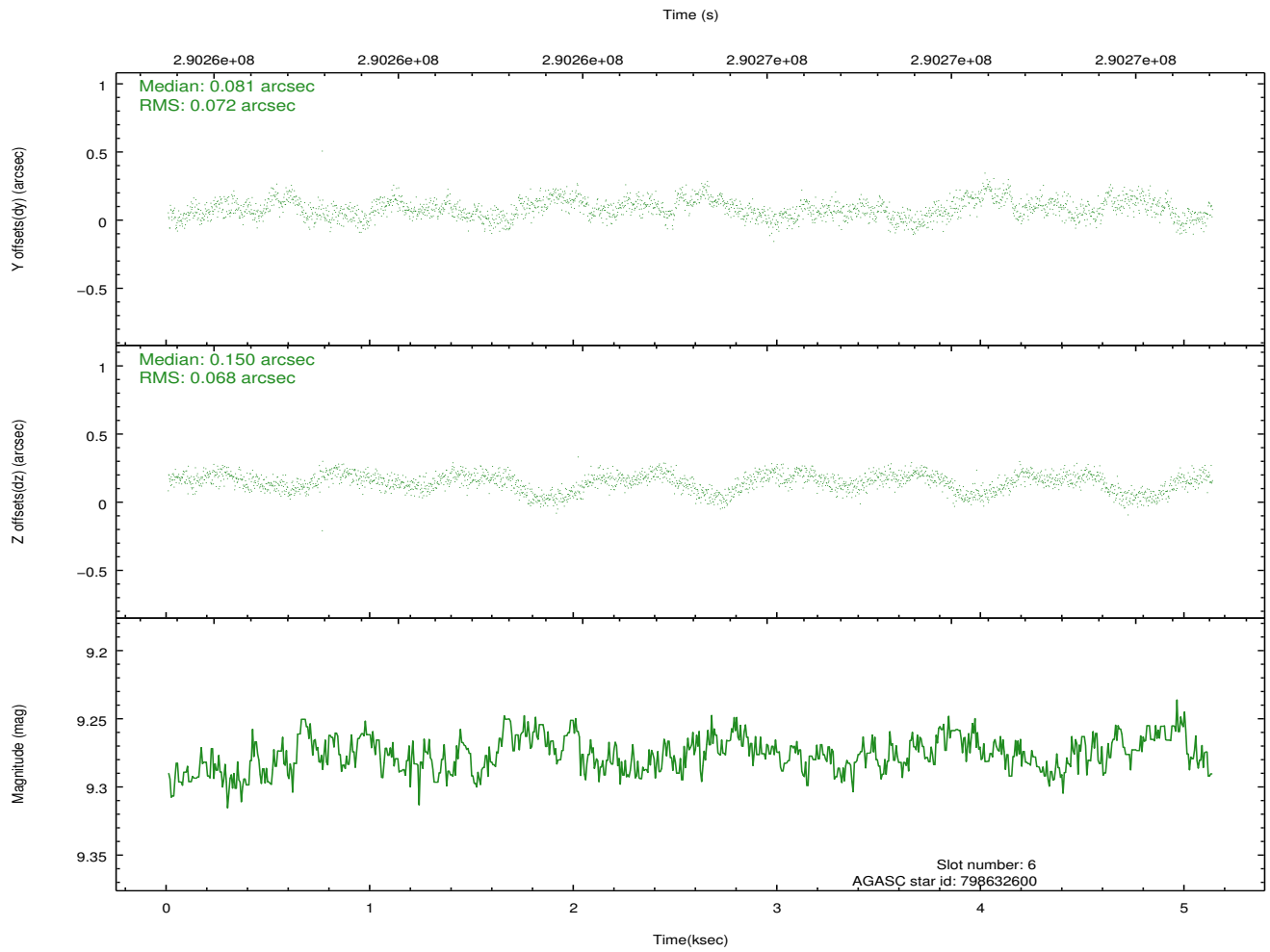
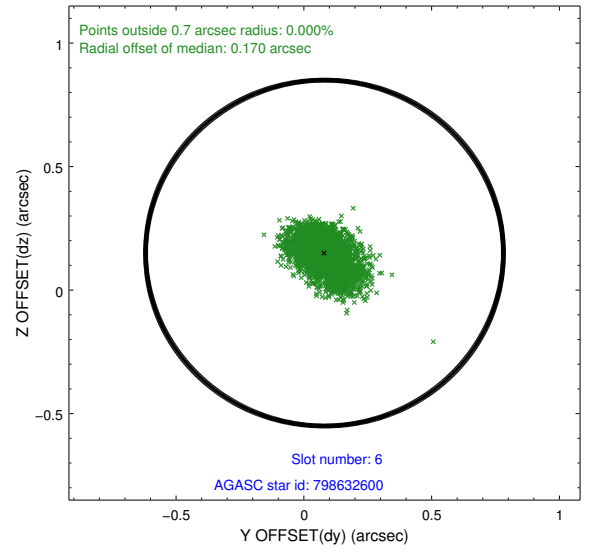
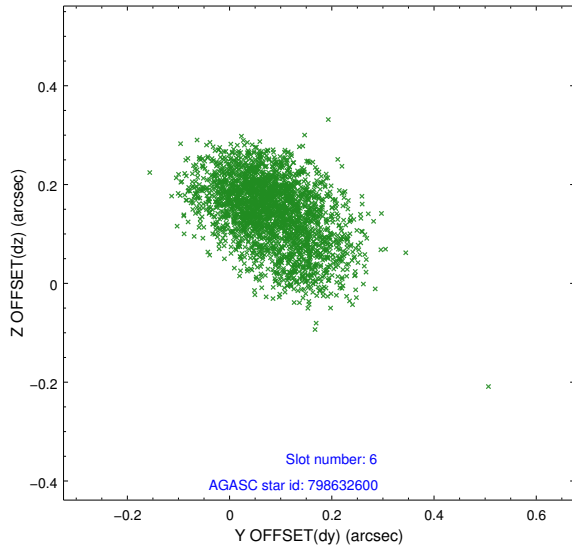
### 2.4.3 Slot 5



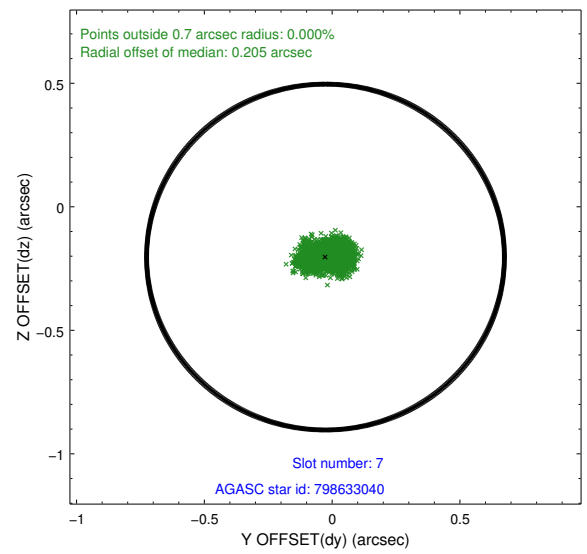
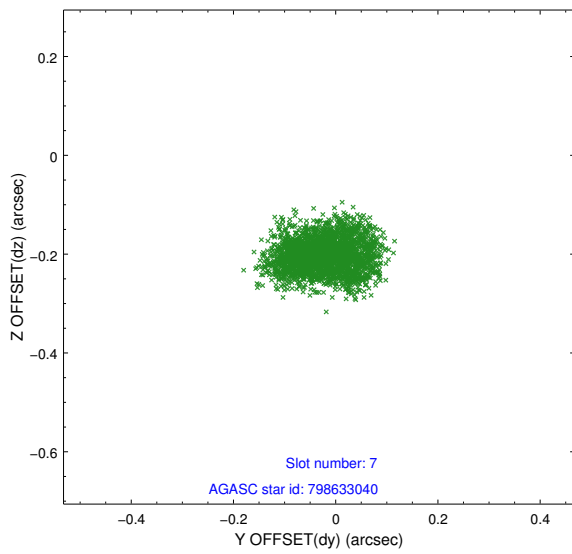
Time (s)



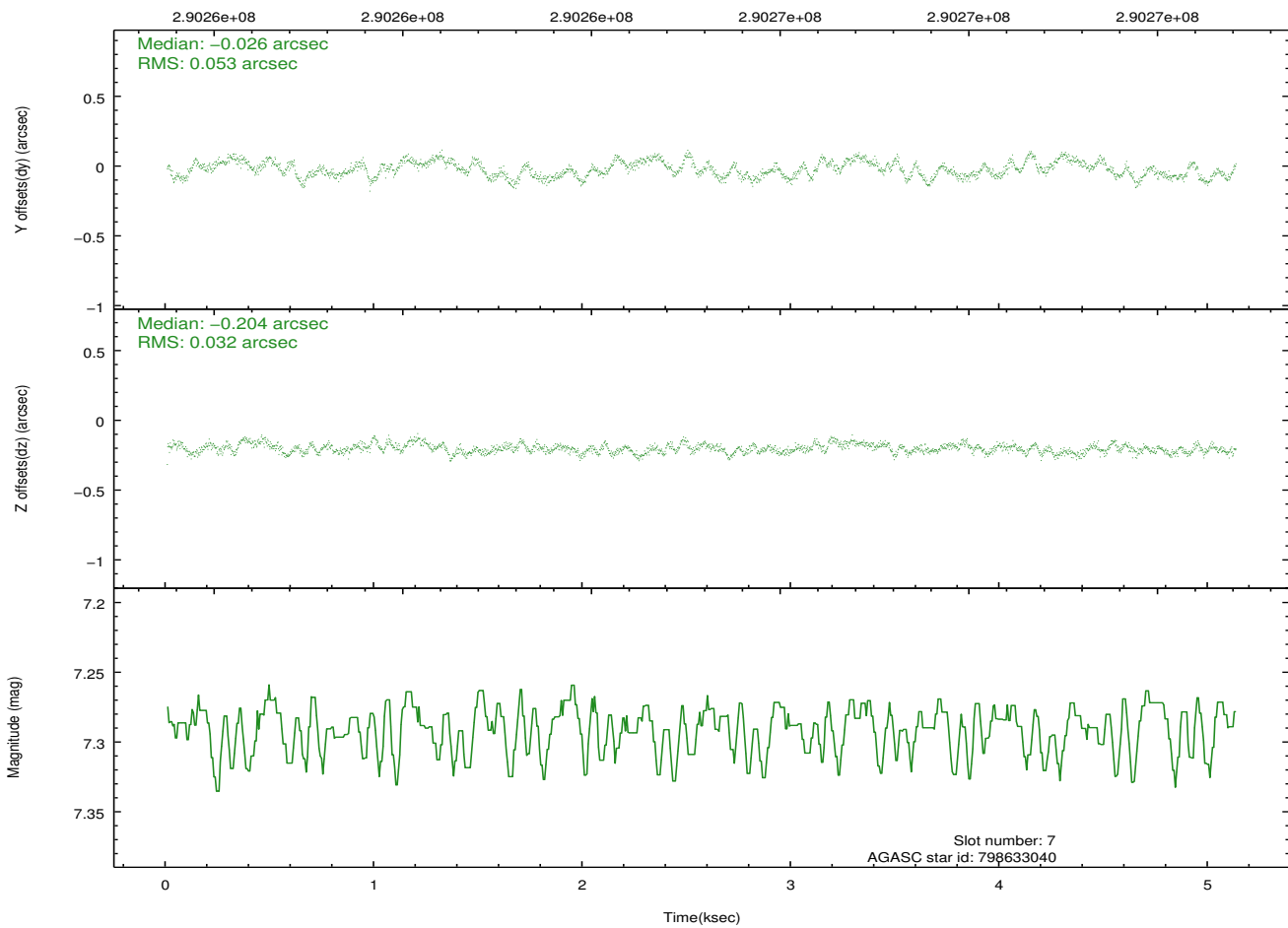
### 2.4.4 Slot 6



## 2.4.5 Slot 7

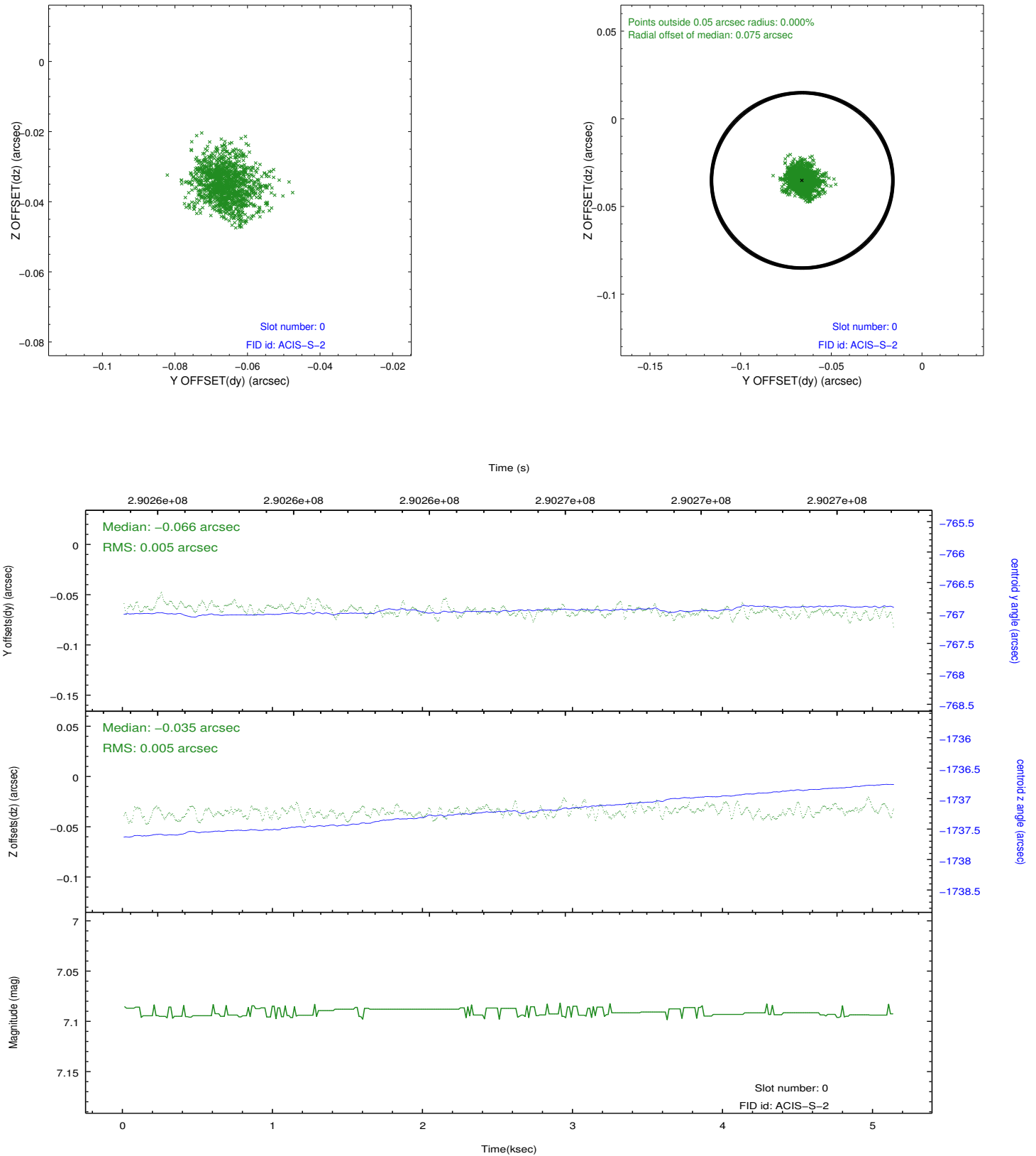


Time (s)

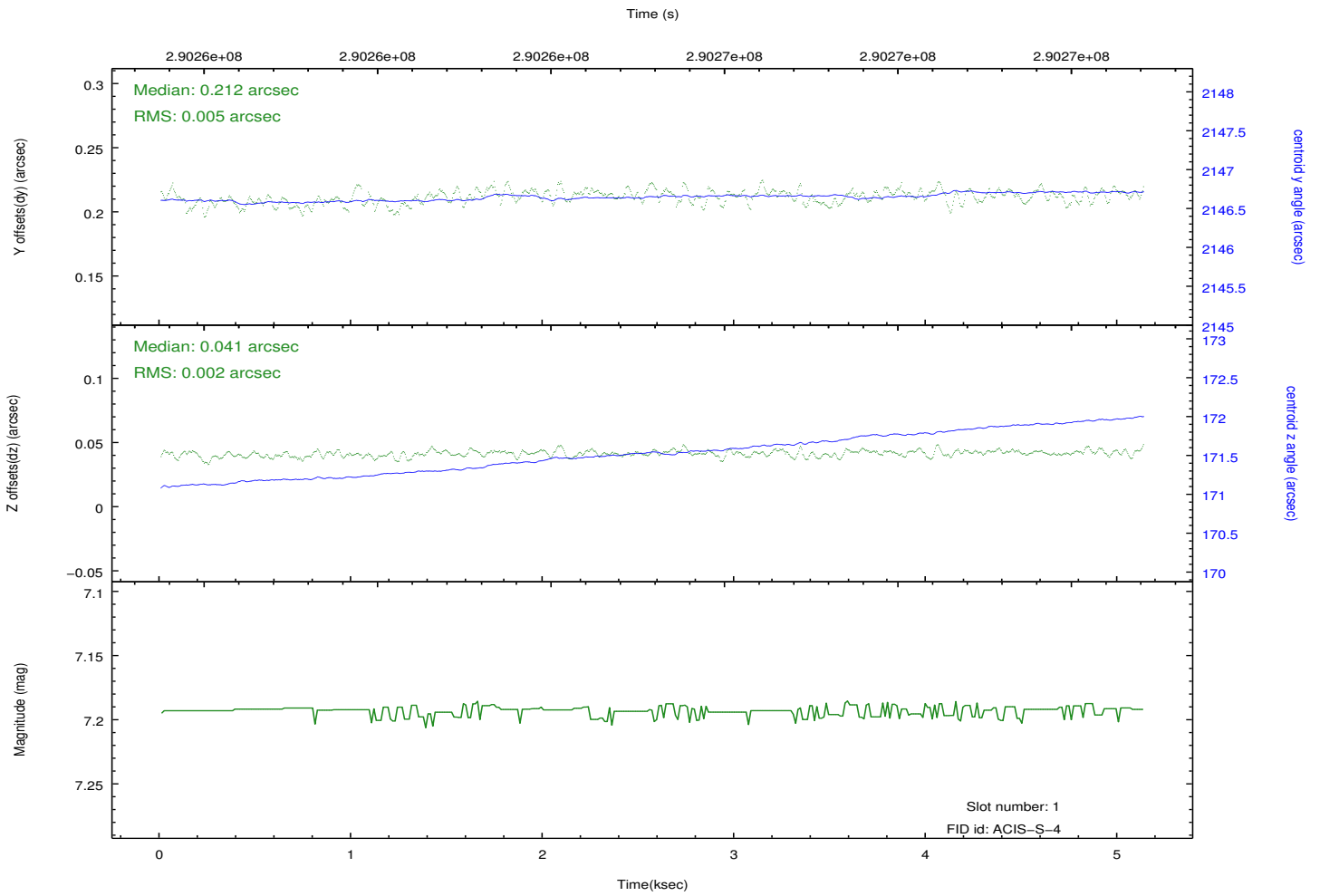
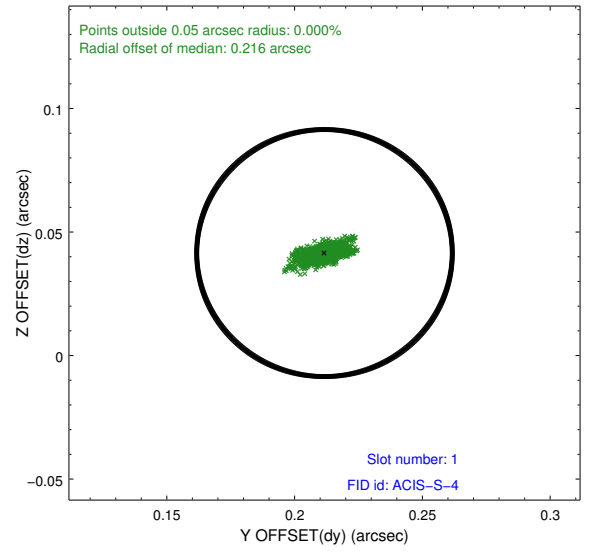
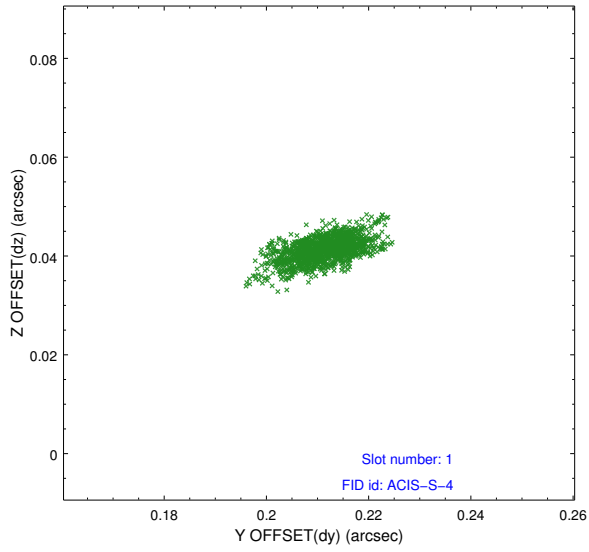


## 2.5 FID Slots

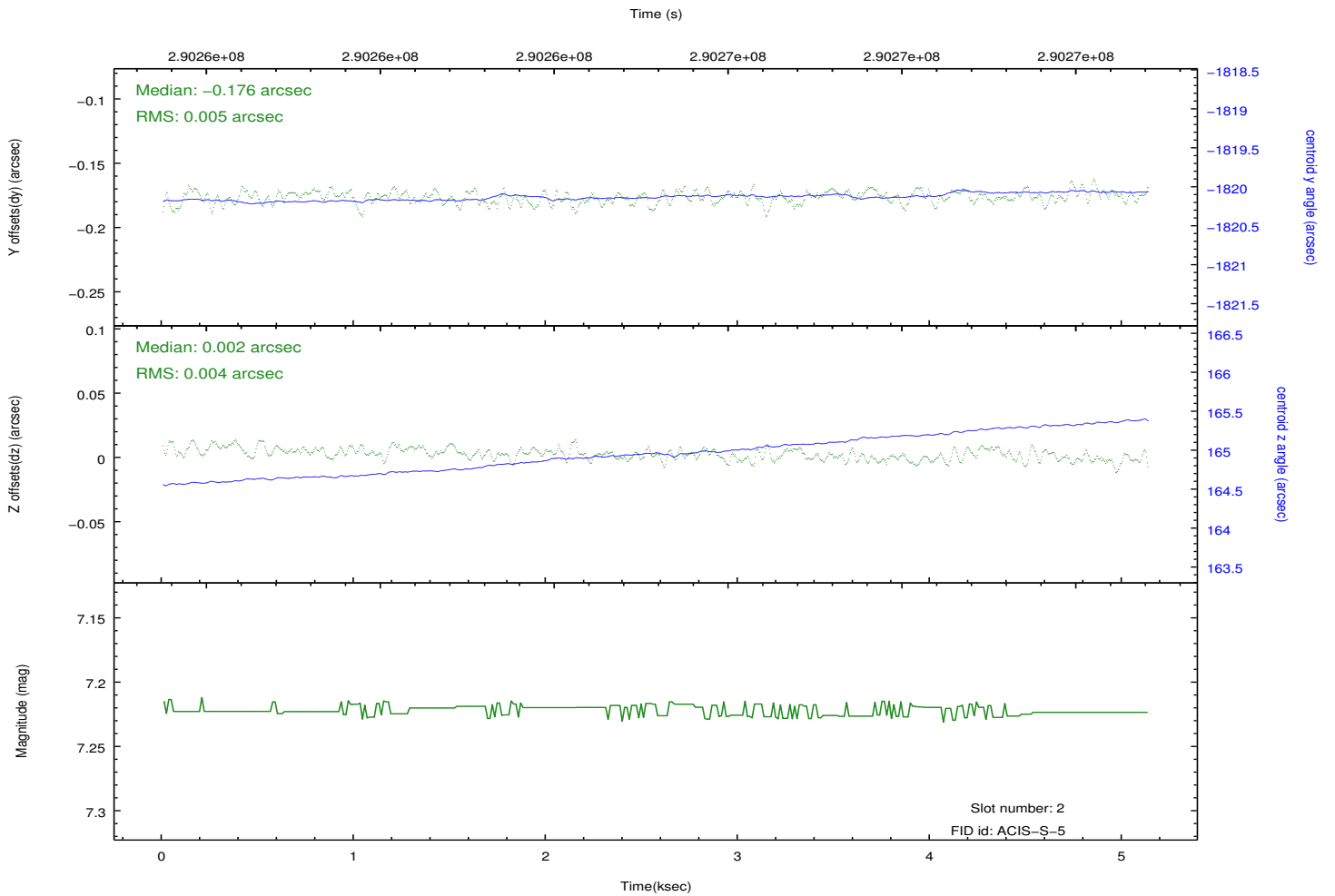
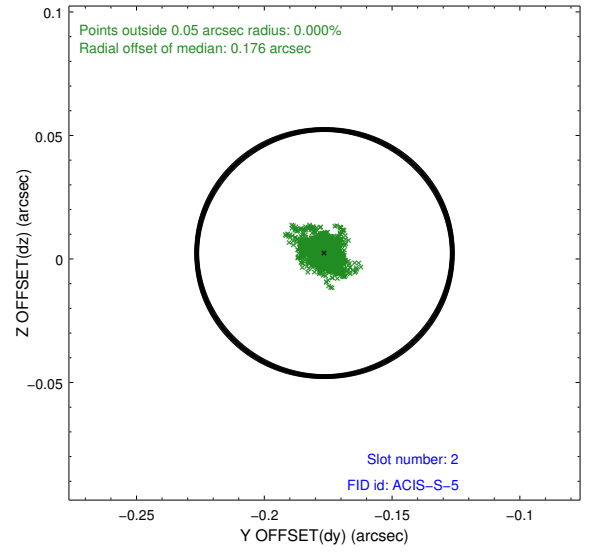
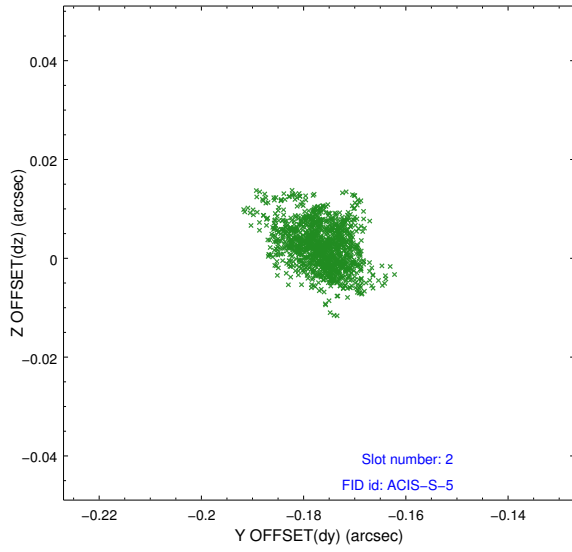
### 2.5.1 Slot 0



## 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)	2012.04.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.11999998

## A.2 Comments