

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 16052 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Sep 3 2014

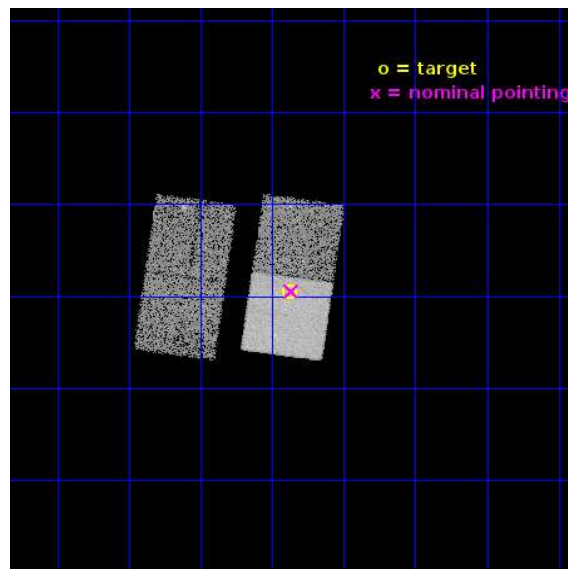
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# 1 Front

seq_num	702946	Sequence number
obs_id	16052	Observation id
title	Continuing the Chandra 3CR Snapshot Survey: 23 Radio Sources with 0.5	Proposal title
observer	Dr. Francesco Massaro	Principal investigator
object	3C107	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	63.094167	Observer's specified target RA [deg]
dec_targ	-0.992333	Observer's specified target Dec [deg]
ra_nom	63.091364500167	Nominal RA [deg]
dec_nom	-0.99102414656091	Nominal Dec [deg]
roll_nom	98.004712588623	Nominal Roll [deg]
revision	1	Processing version of data
ontime	11789.079286397	Sum of GTIs [s]
livetime	11635.046286526	Livetime [s]
ontime2	11788.956166387	Sum of GTIs [s]
ontime3	11788.99720639	Sum of GTIs [s]
ontime6	11789.038246393	Sum of GTIs [s]
ontime7	11789.079286397	Sum of GTIs [s]
l2events	68004	Number of level 2 events

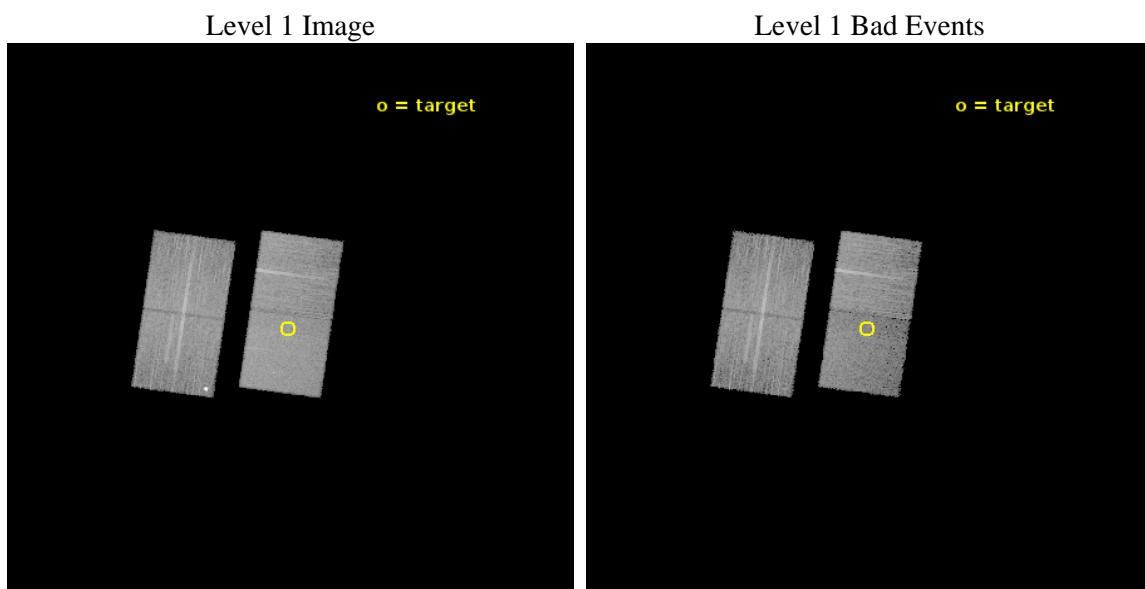




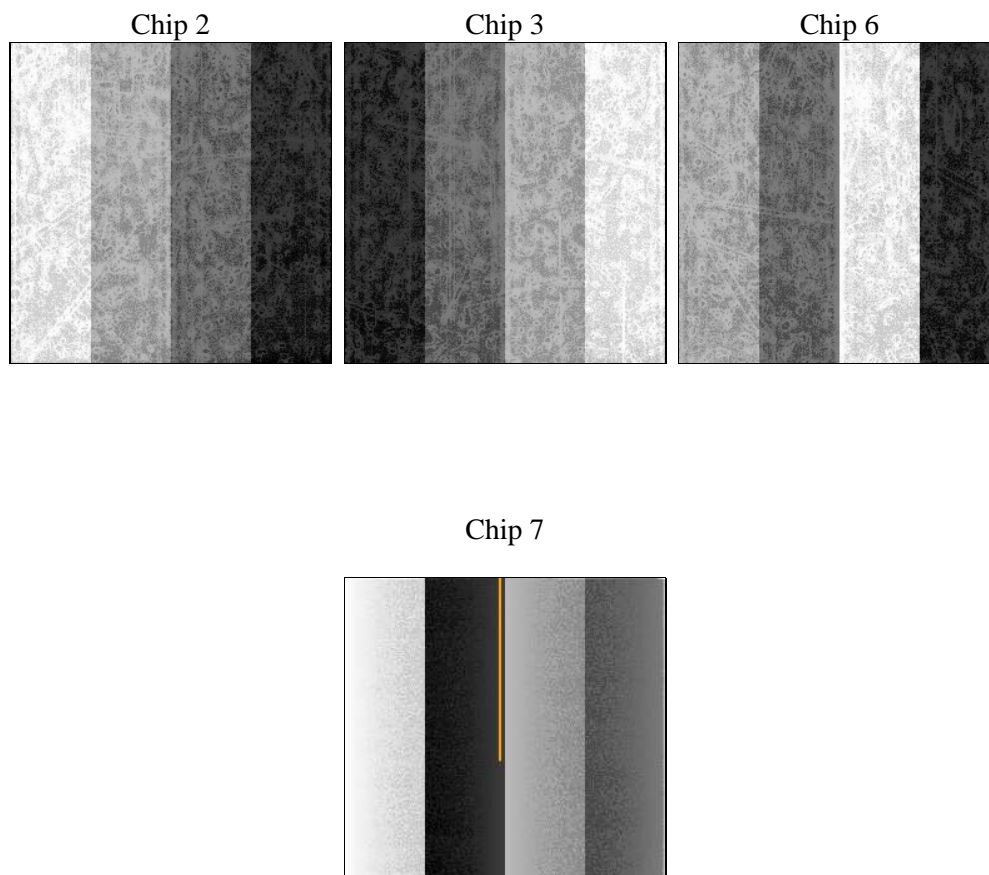
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias





### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	11789.079286397	Sum of GTIs [s]
caldsver	4.6.3	&#160	ontime2	11788.956166387	Sum of GTIs [s]
date	2014-09-03T06:10:43	Date and time of file creation	ontime3	11788.99720639	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	11789.038246393	Sum of GTIs [s]
			ontime7	11789.079286397	Sum of GTIs [s]
			l1events	352942	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	86791	84597	87328	94226
rejected events	77320	72179	77408	49132
rejected %	89%	85%	88%	52%

	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	3627	6968	3682	4603
	4%	8%	4%	4%
grade 1 events	58	76	50	140
	0%	0%	0%	0%
grade 2 events	2164	1803	2181	9806
	2%	2%	2%	10%
grade 3 events	996	959	923	3853
	1%	1%	1%	4%
grade 4 events	1003	957	985	3801
	1%	1%	1%	4%
grade 5 events	2710	3230	3372	9145
	3%	3%	3%	9%
grade 6 events	1689	1740	2154	23045
	1%	2%	2%	24%
grade 7 events	74544	68864	73981	39833
	85%	81%	84%	42%



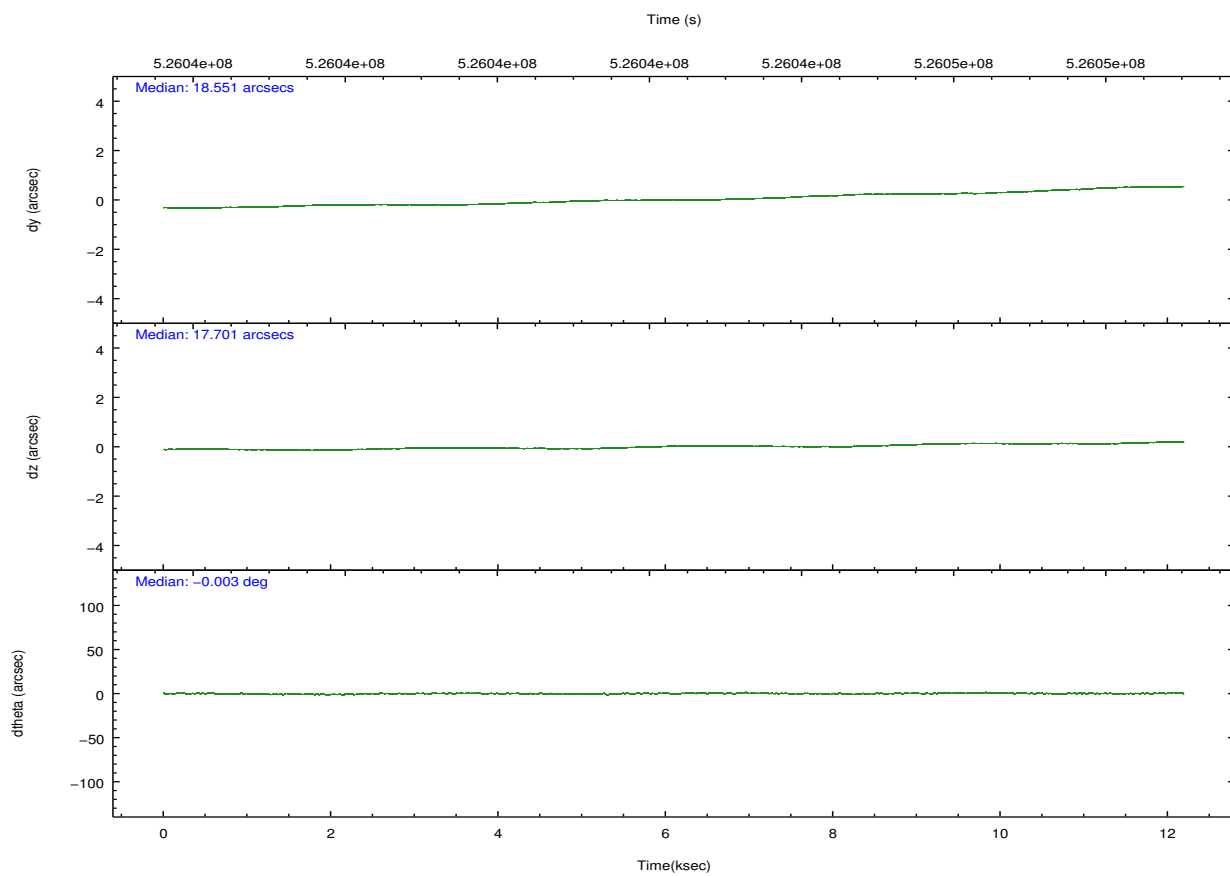
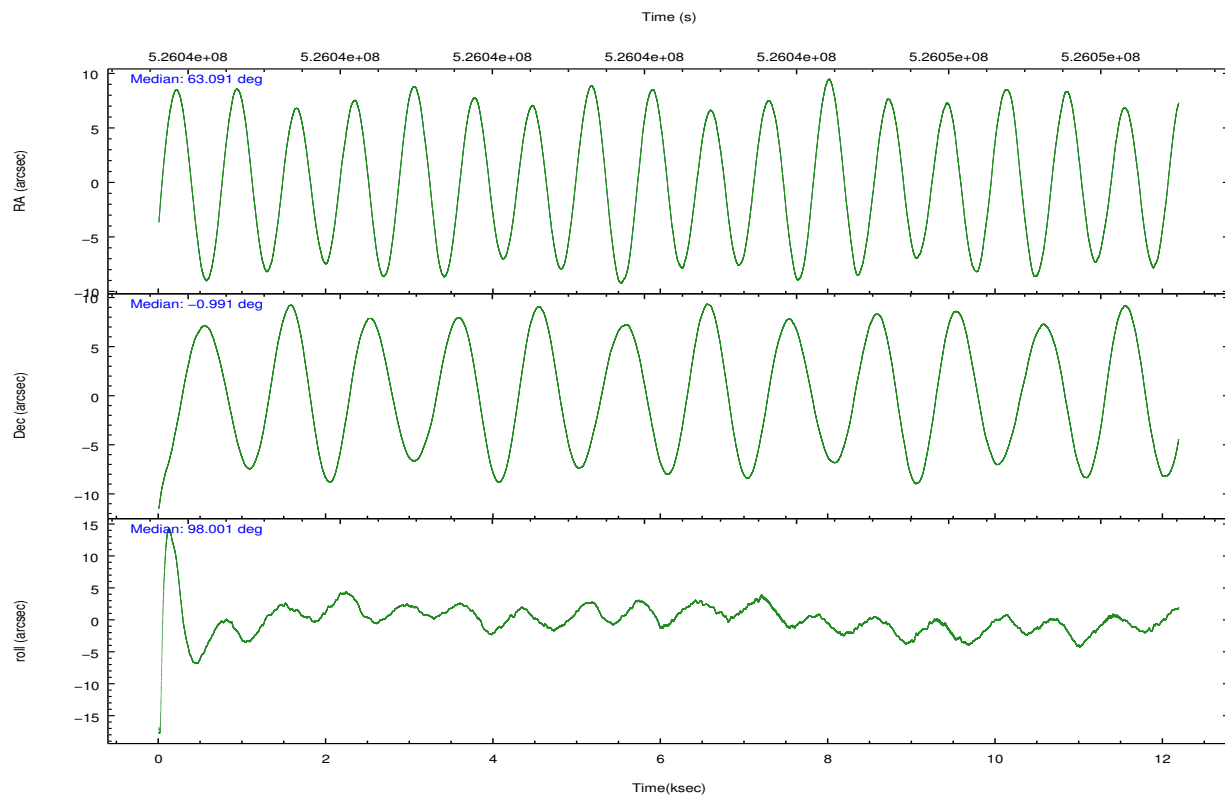
## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	63.108549	63.09136450016693	CCD I2 on	O1	Y
[deg] Pointing Dec	-1.012395	-0.9910241465609135	CCD I3 on	O2	Y
[deg] Pointing Roll	97.848419	98.00471258862349	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	526036418.184000	526035740.55968	CCD S5 on	N	N
Observation start date	2014-09-02T09:12:31	2014-09-02T09:02:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	526048418.184000	526049231.09793	On-chip summing requested	N	N
Observation end date	2014-09-02T12:32:31	2014-09-02T12:47:11	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1



## 2.3 Aspect







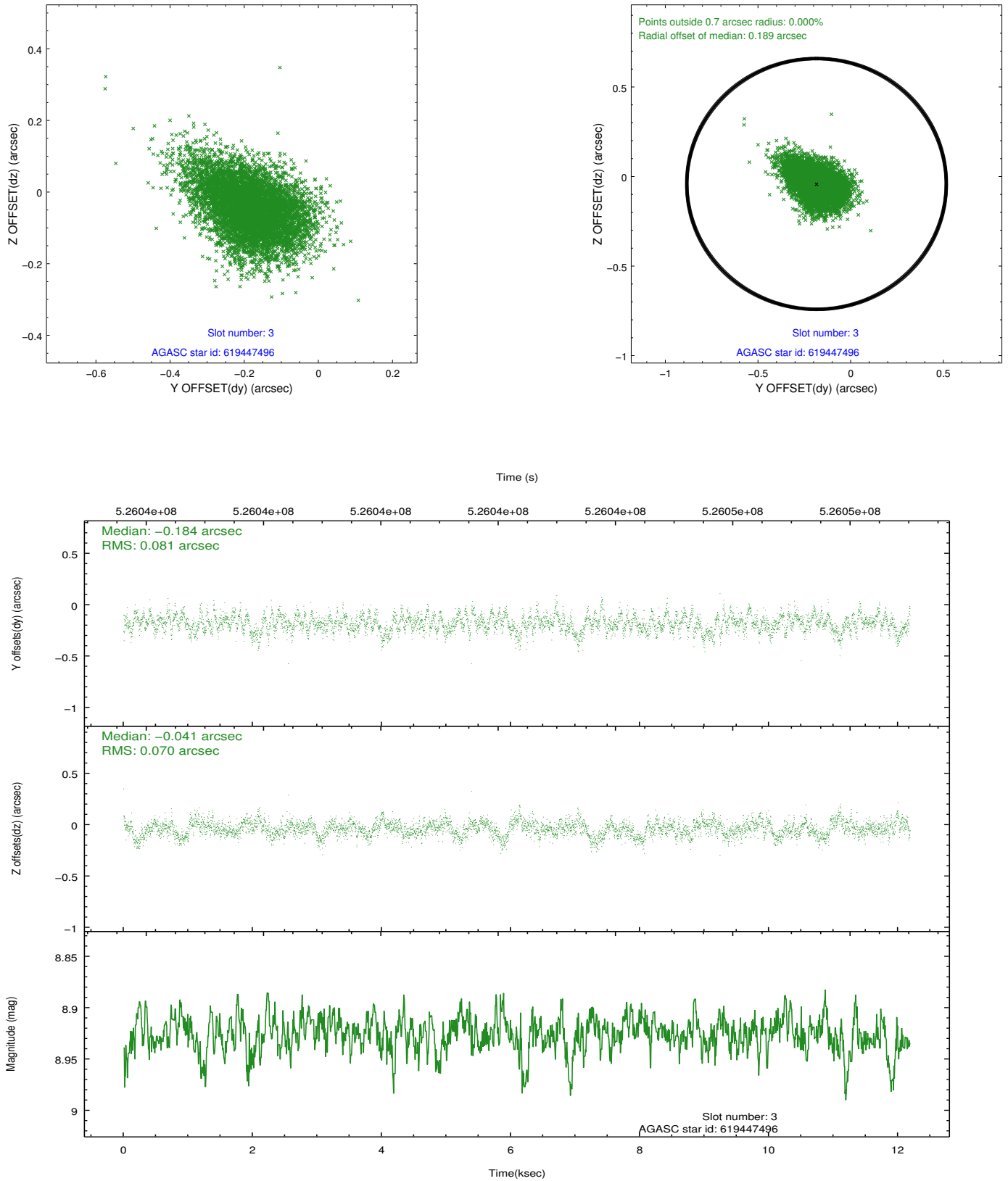
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.03	2973	-0.098	-0.054	0.009	0.016	0.000000	0.000000	-771.79	-1739.19
1	FID	ACIS-S-4	7.10	2972	0.278	0.062	0.009	0.017	0.000000	0.000000	2141.71	168.92
2	FID	ACIS-S-5	7.14	2973	-0.211	0.000	0.007	0.012	0.000000	0.000000	-1824.19	163.08
3	GUIDE	619447496	8.93	5938	-0.184	-0.041	0.112	0.188	63.542902	-0.344965	2167.28	-1876.99
4	GUIDE	619448208	7.90	5943	0.091	0.166	0.064	0.102	63.745165	-0.997444	-258.98	-2277.45
5	GUIDE	619448288	9.32	5938	-0.095	0.015	0.128	0.213	63.510050	-0.818660	494.17	-1527.24
6	GUIDE	619455912	8.36	5946	0.107	-0.004	0.075	0.128	63.794631	-1.220375	-1078.30	-2344.07
7	GUIDE	619460368	6.98	5945	0.080	-0.122	0.104	0.172	63.408953	-1.149738	-636.93	-1003.95



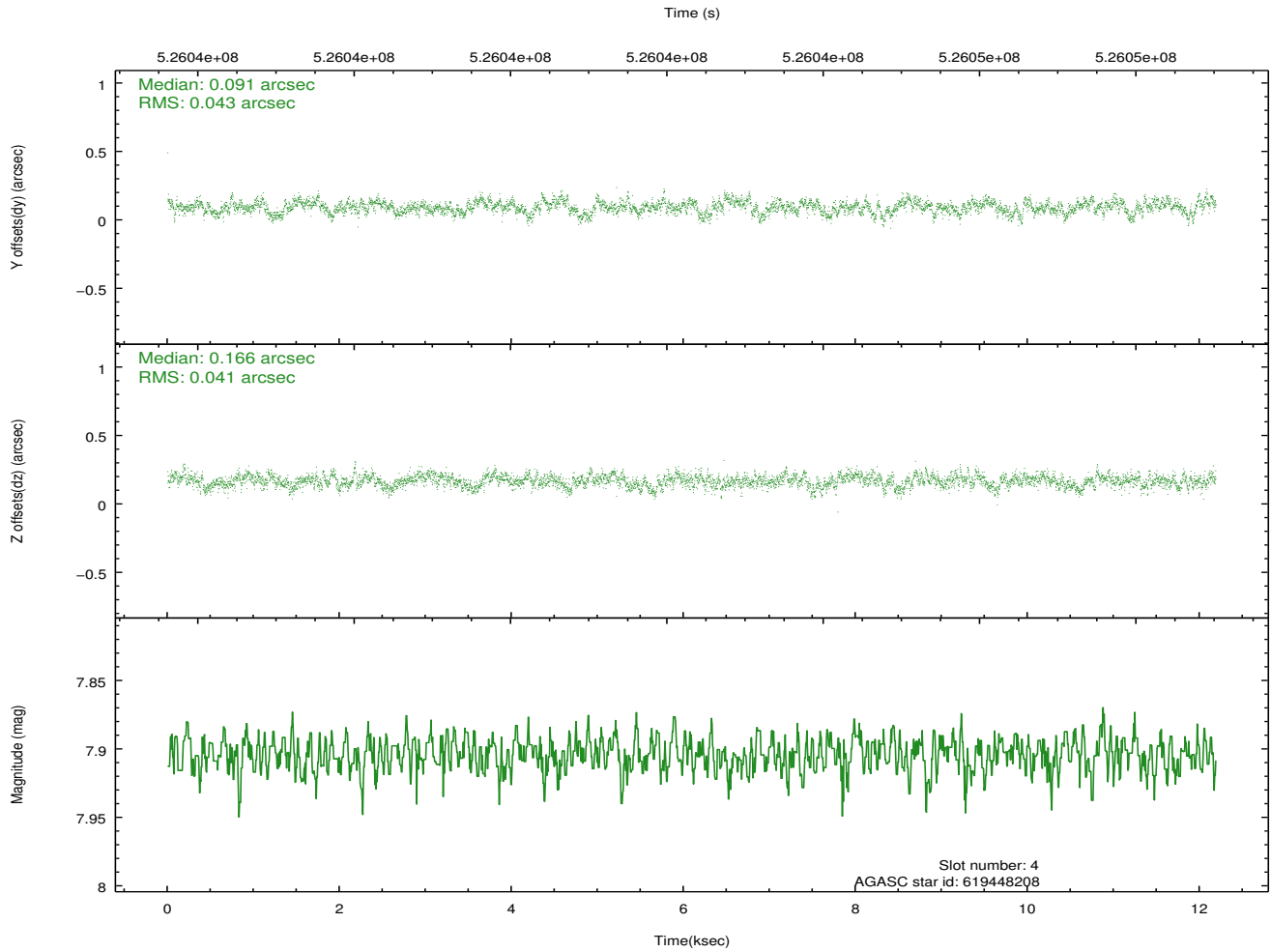
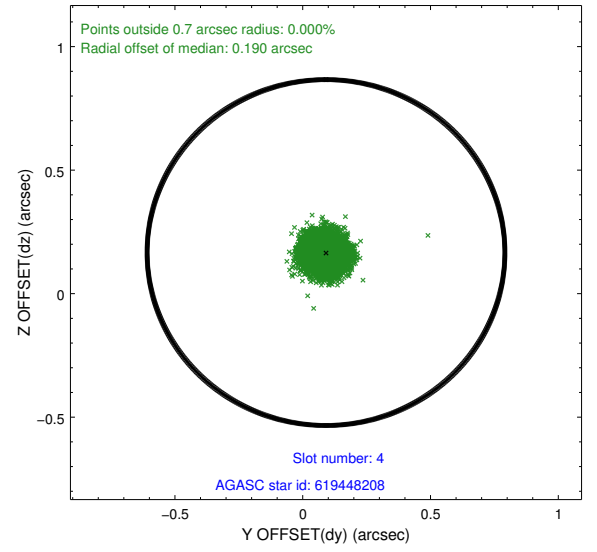
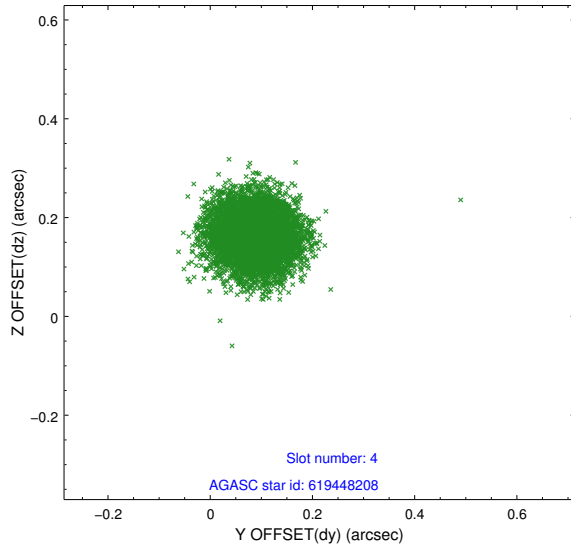
## 2.4 Star Slots

### 2.4.1 Slot 3



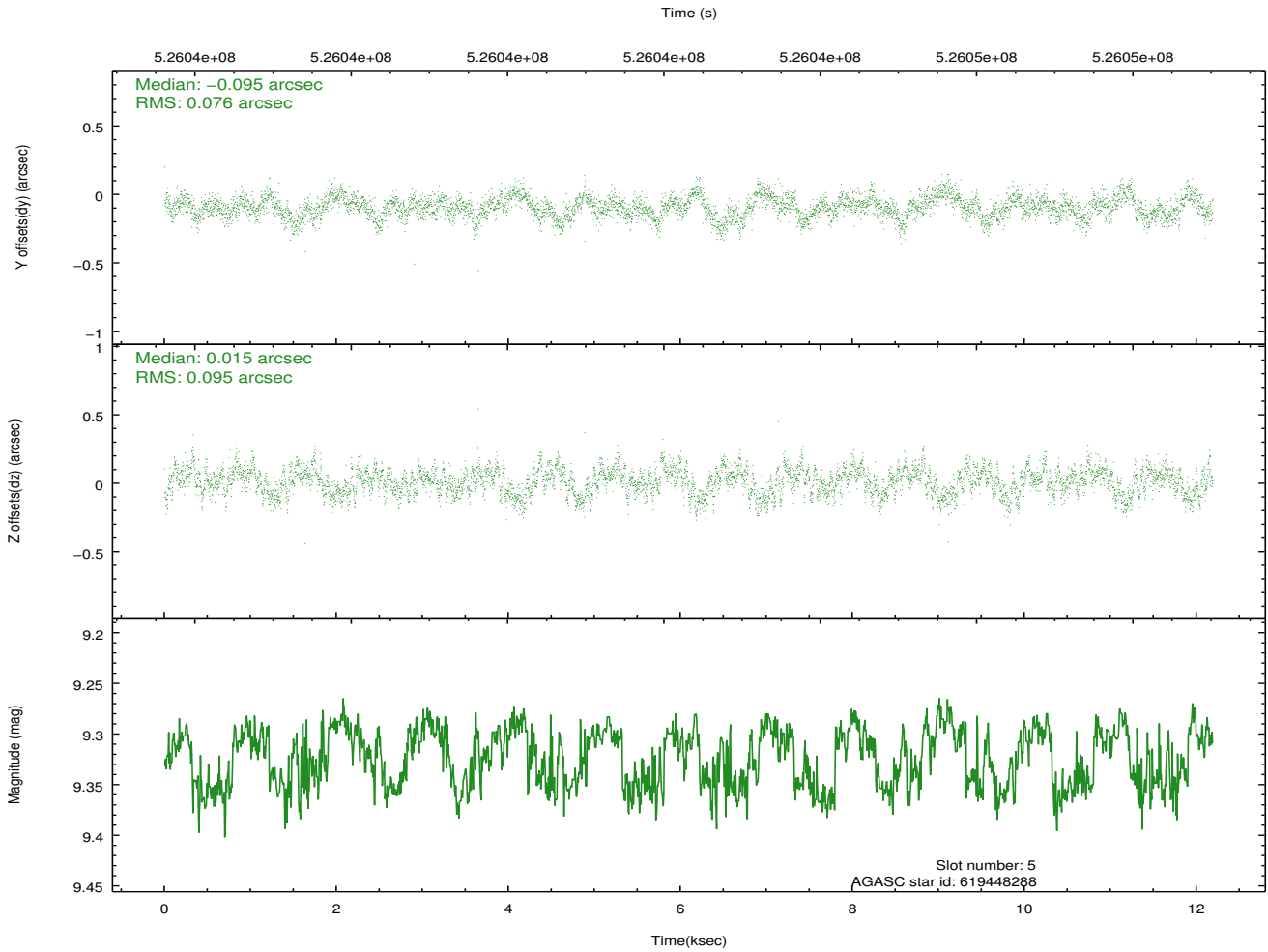
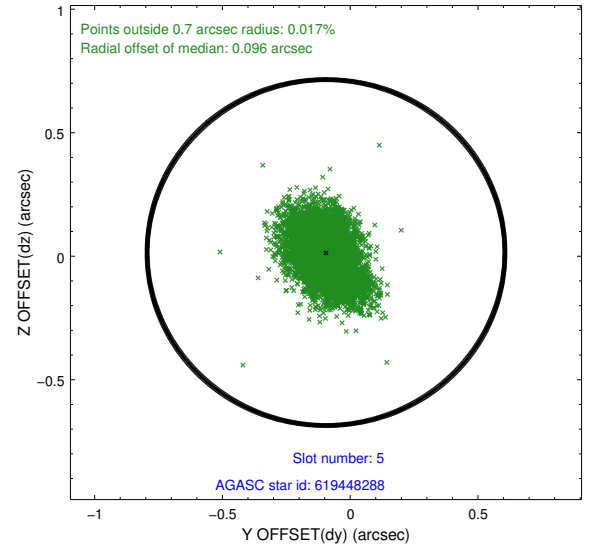
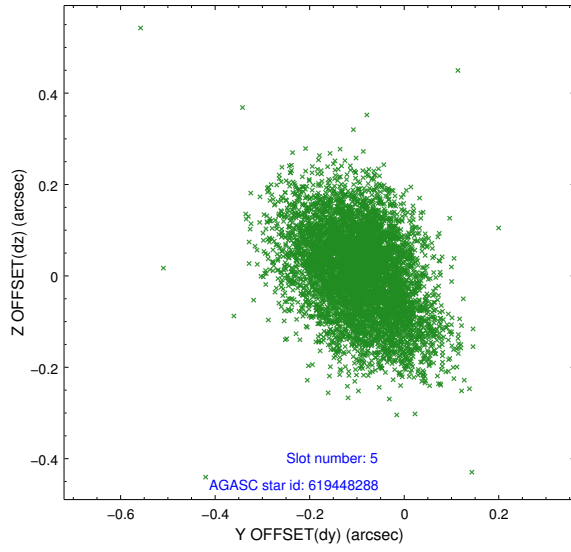


## 2.4.2 Slot 4



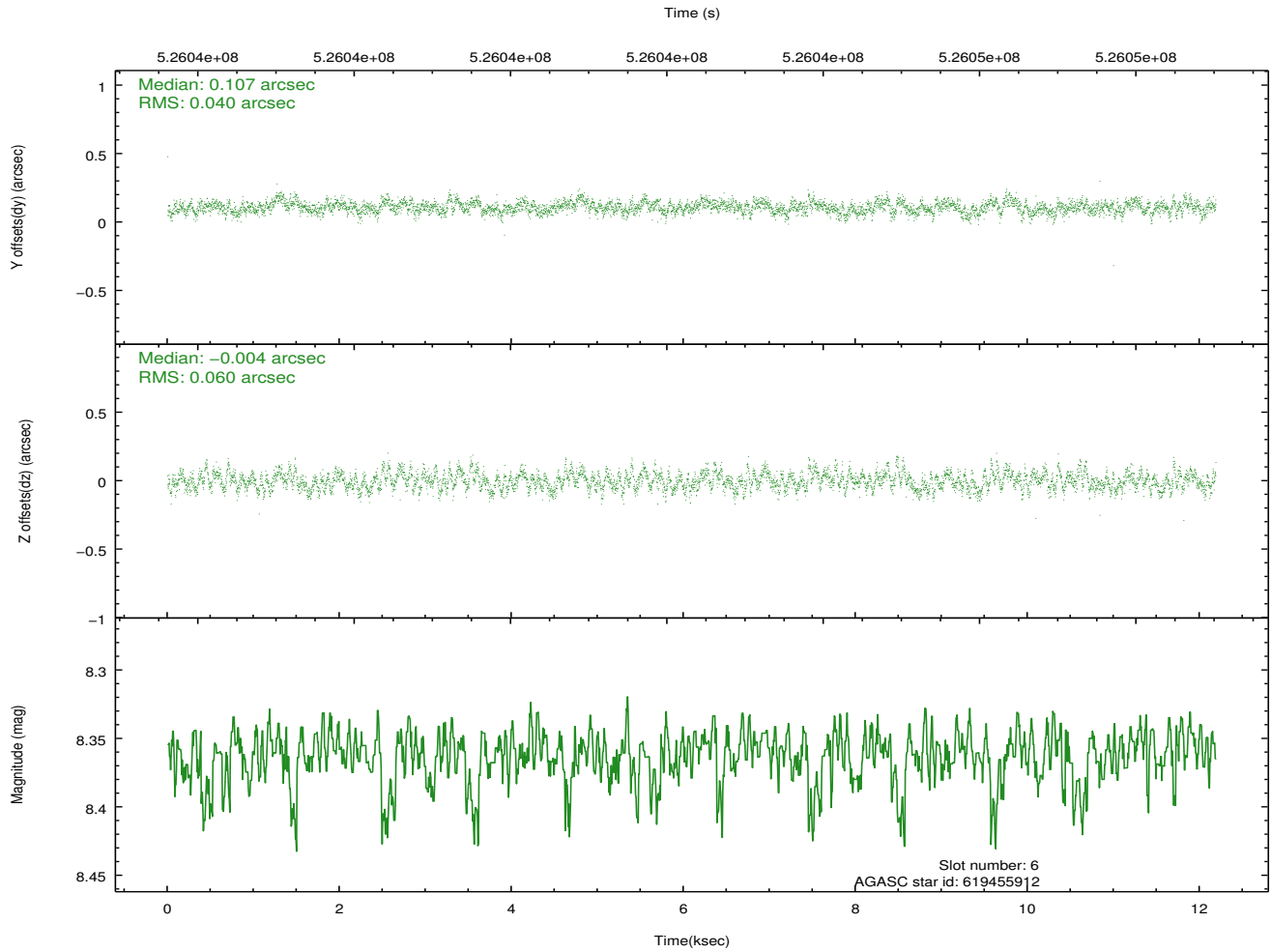
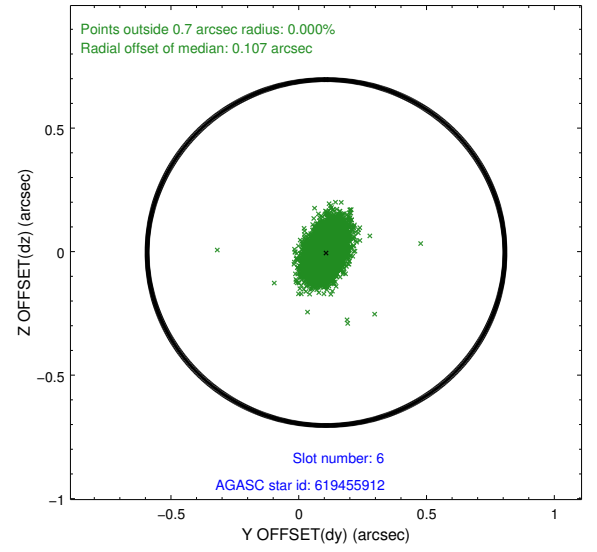
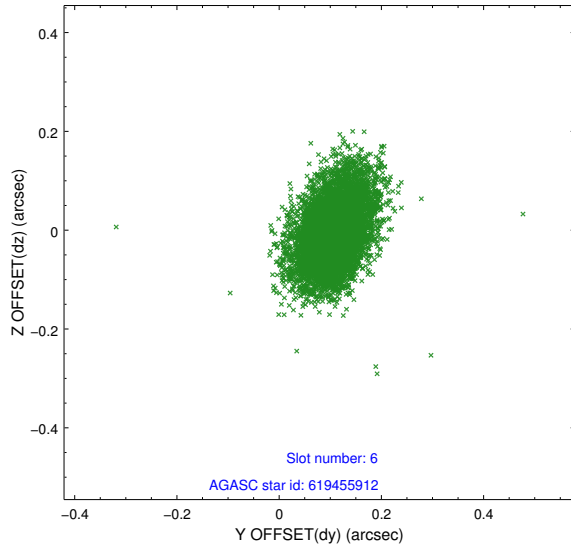


### 2.4.3 Slot 5



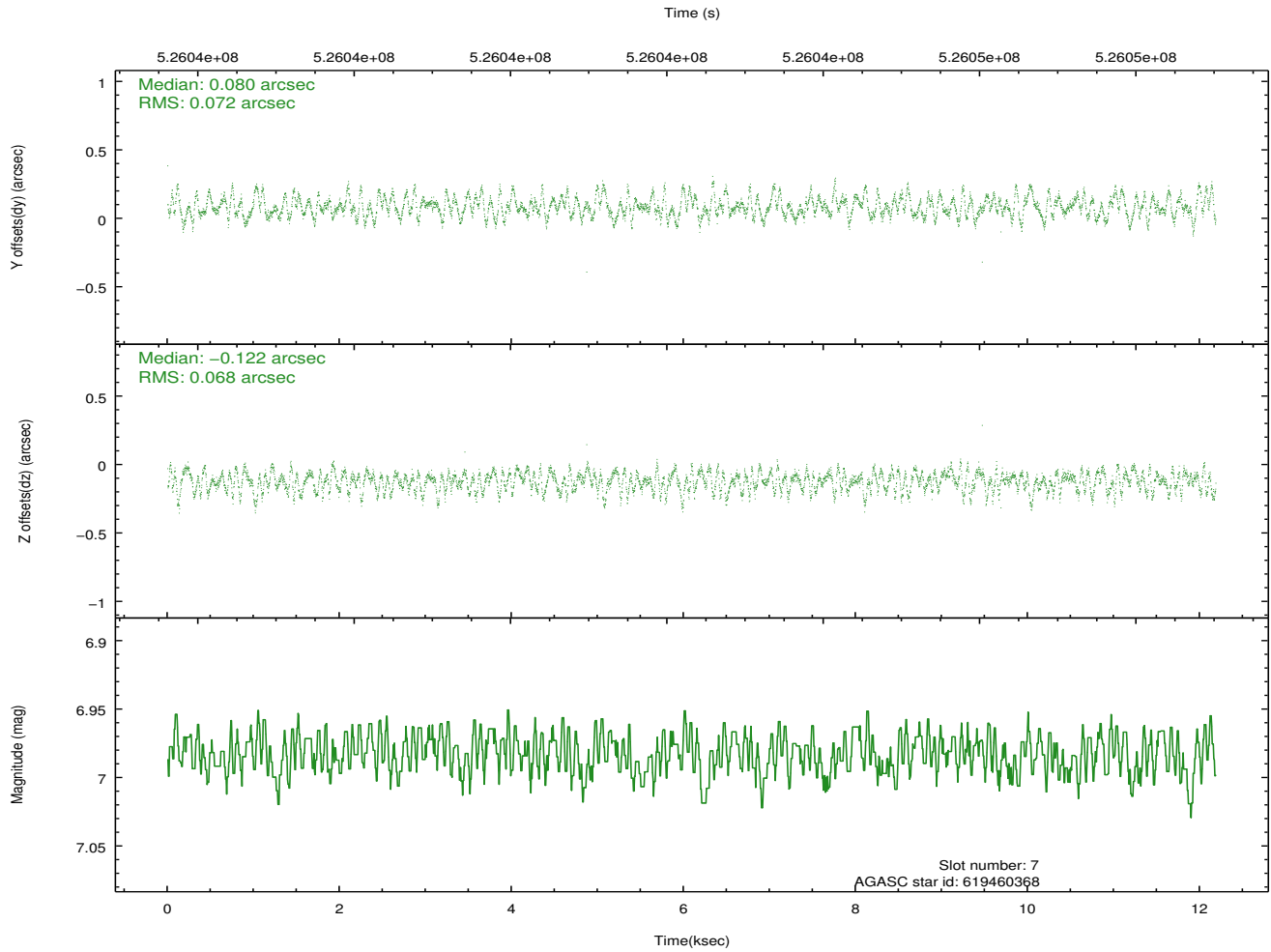
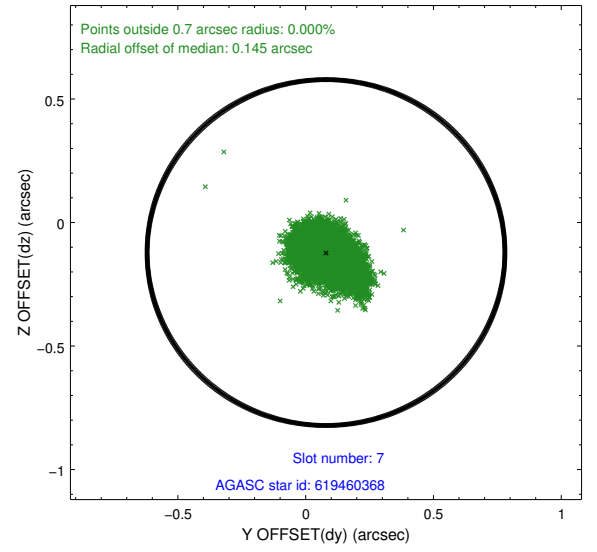
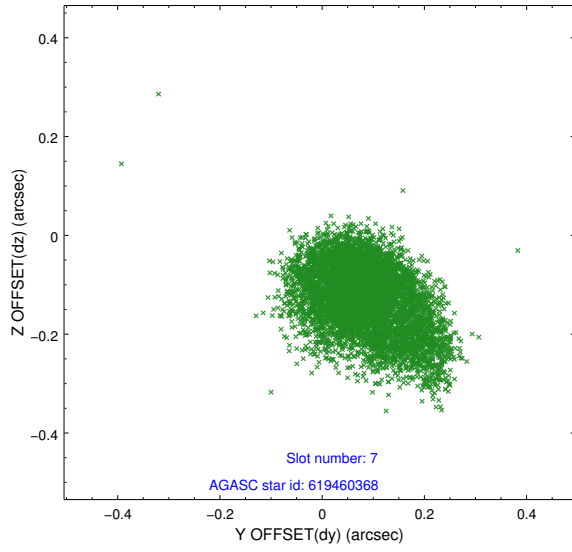


## 2.4.4 Slot 6





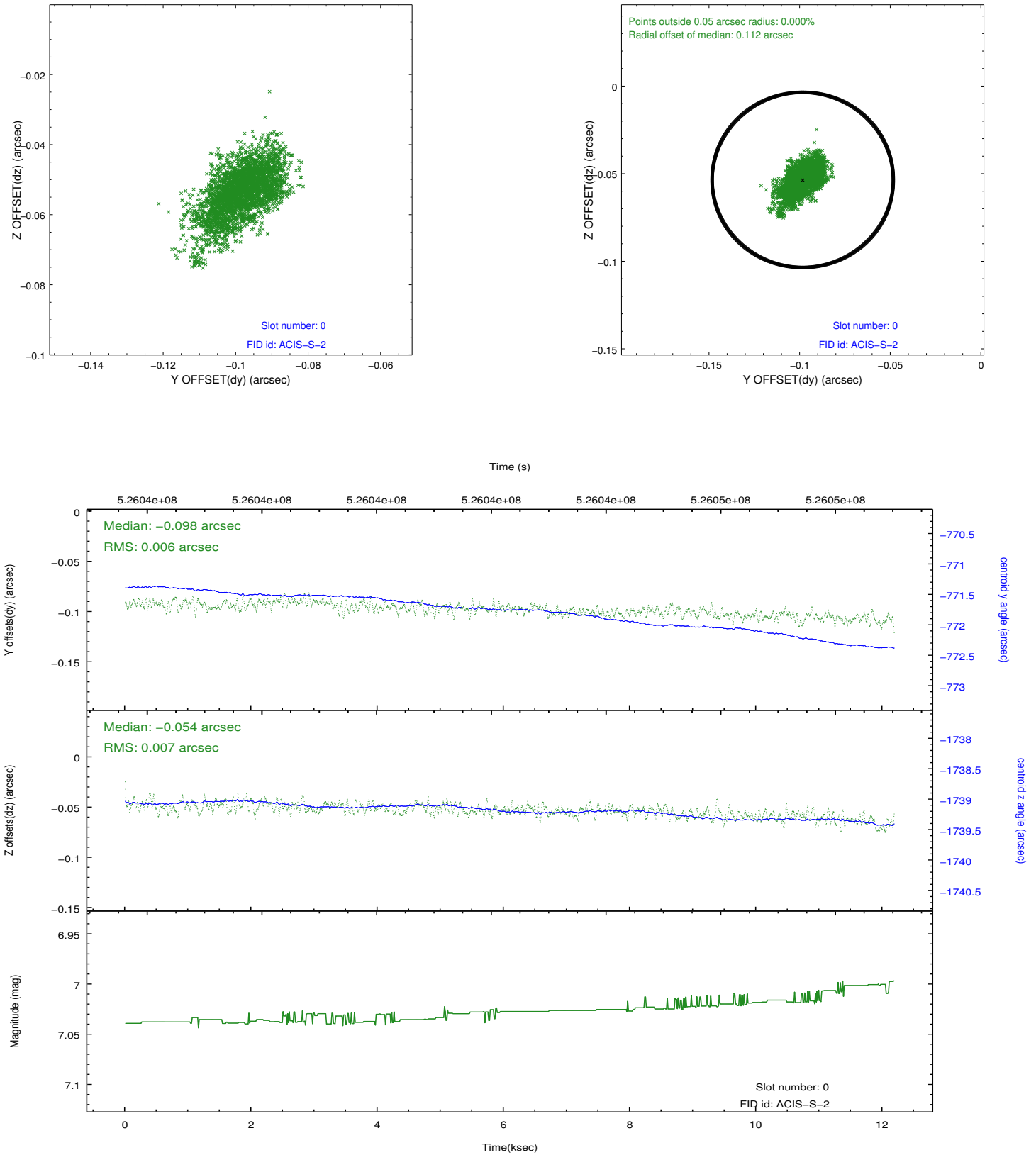
## 2.4.5 Slot 7





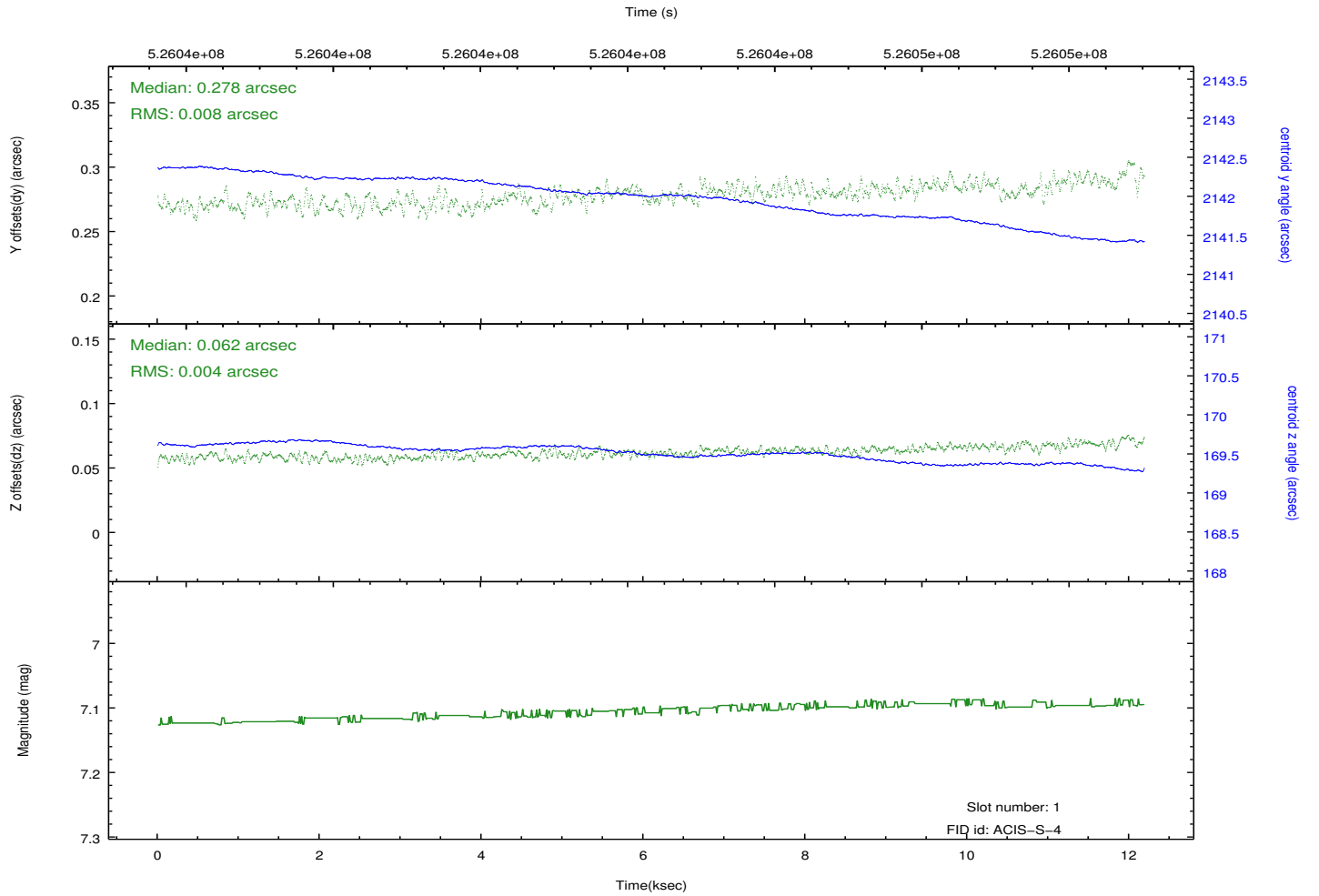
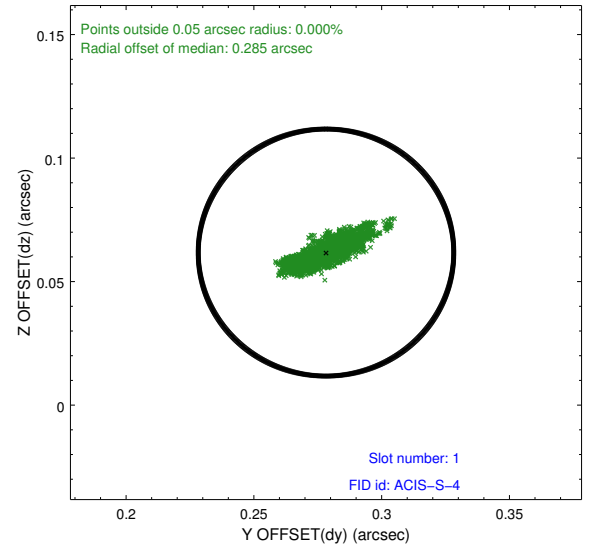
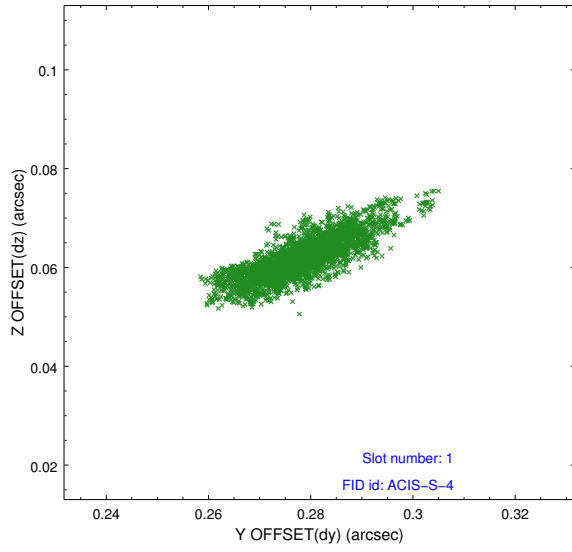
## 2.5 FID Slots

### 2.5.1 Slot 0



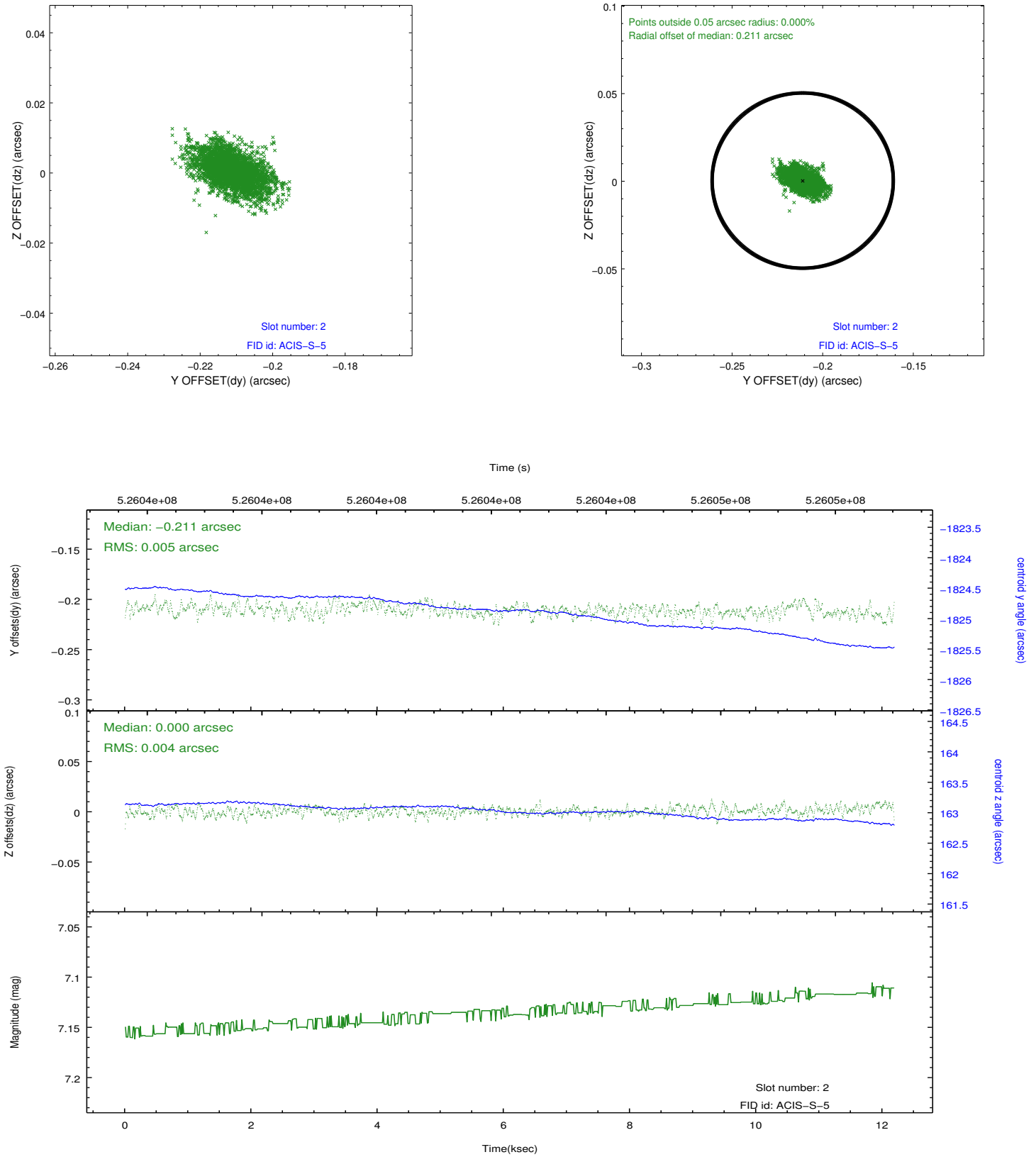


## 2.5.2 Slot 1





### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2014.09.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.789079286397

### A.2 Comments