

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19356 - L2 Version 2
Chandra X-Ray Center

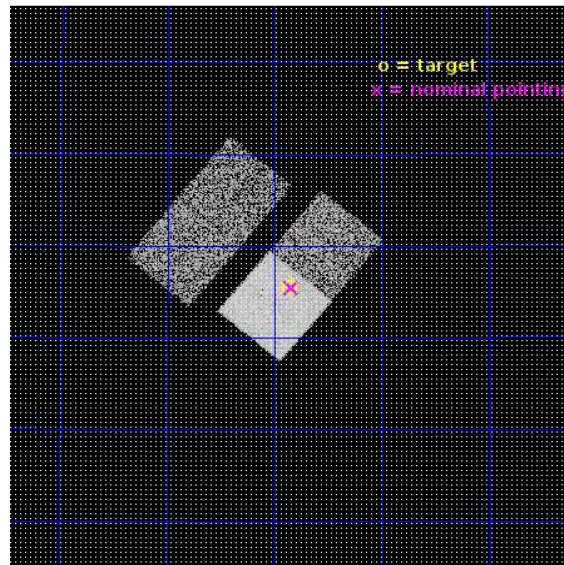
L2 Processing Date : Feb 10 2017

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1 Front

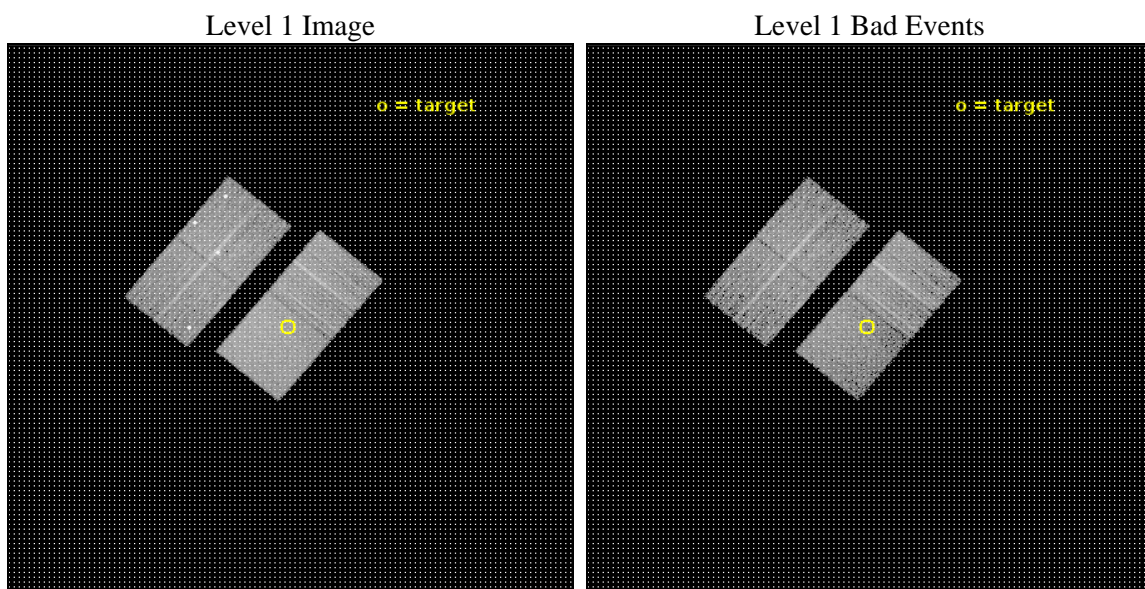
seq_num	601313	Sequence number
obs_id	19356	Observation id
title	A Statistically Complete High Resolution Chandra and Radio (eMERLIN) Survey of the Palomar Nearby Galaxies Sample	Proposal title
observer	Ian McHardy	Principal investigator
object	NGC 3600	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.966667	Observer's specified target RA [deg]
dec_targ	41.591389	Observer's specified target Dec [deg]
ra_nom	168.96094932085	Nominal RA [deg]
dec_nom	41.590972336846	Nominal Dec [deg]
roll_nom	129.5721901327	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7067.8985583782	Sum of GTIs [s]
livetime	6975.5512604018	Livetime [s]
ontime2	7067.7754384279	Sum of GTIs [s]
ontime3	7067.8164783716	Sum of GTIs [s]
ontime6	7067.8575184345	Sum of GTIs [s]
ontime7	7067.8985583782	Sum of GTIs [s]
l2events	40344	Number of level 2 events



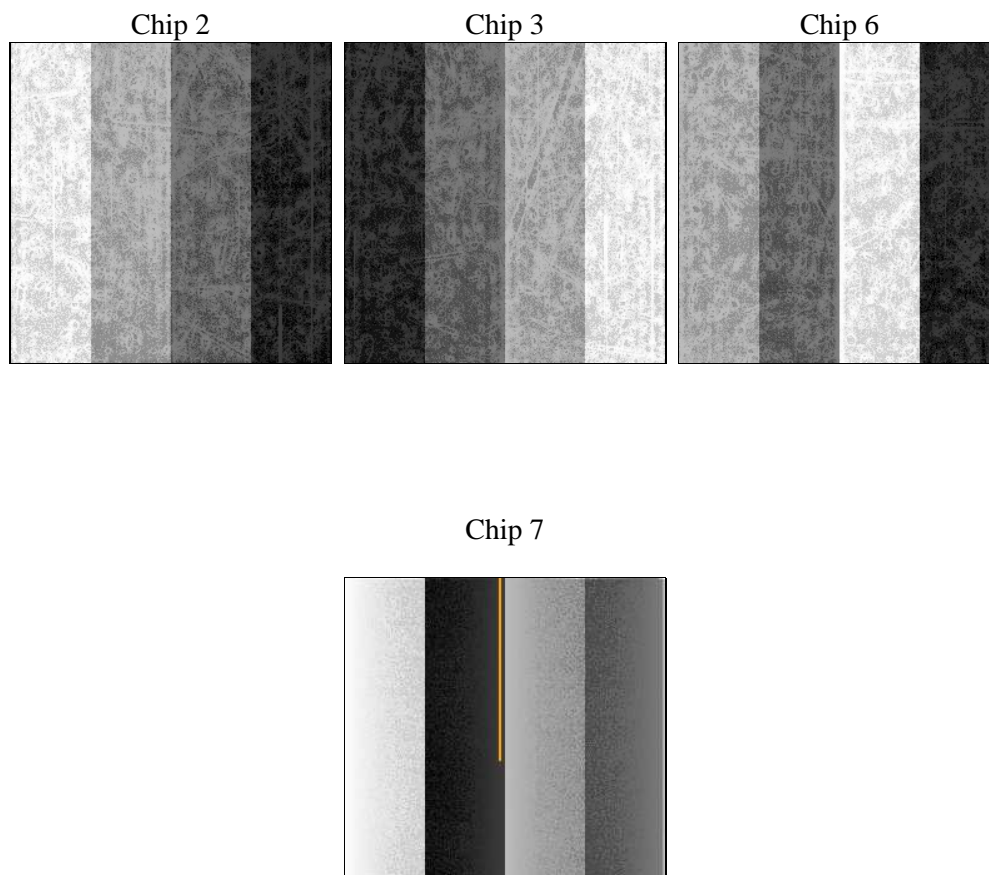
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	7067.8985583782	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	7067.7754384279	Sum of GTIs [s]
date	2017-02-10T18:38:12	Date and time of file creation	ontime3	7067.8164783716	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	7067.8575184345	Sum of GTIs [s]
			ontime7	7067.8985583782	Sum of GTIs [s]
			l1events	228657	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	58103	49595	56735	64224
rejected events	46596	42408	51060	36872
rejected %	80%	85%	89%	57%

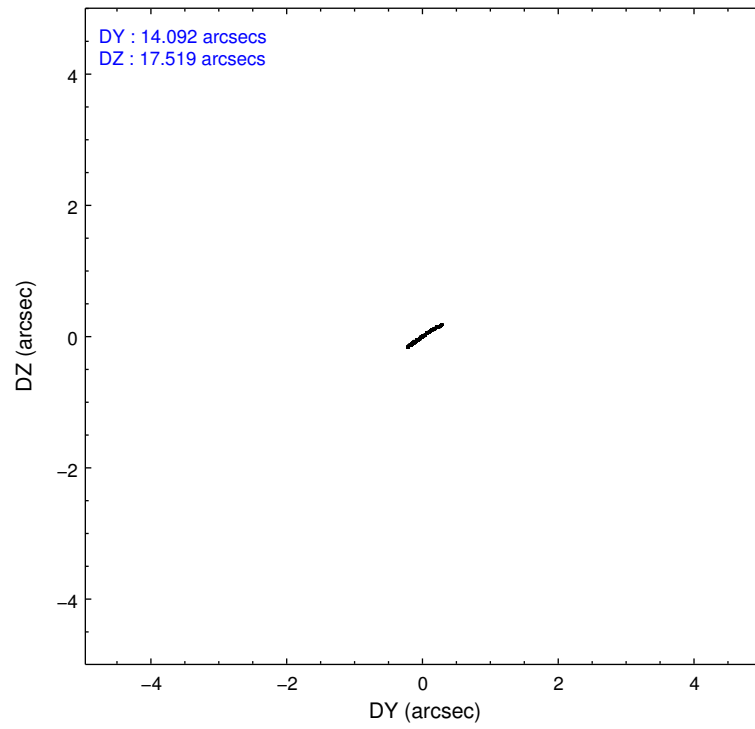
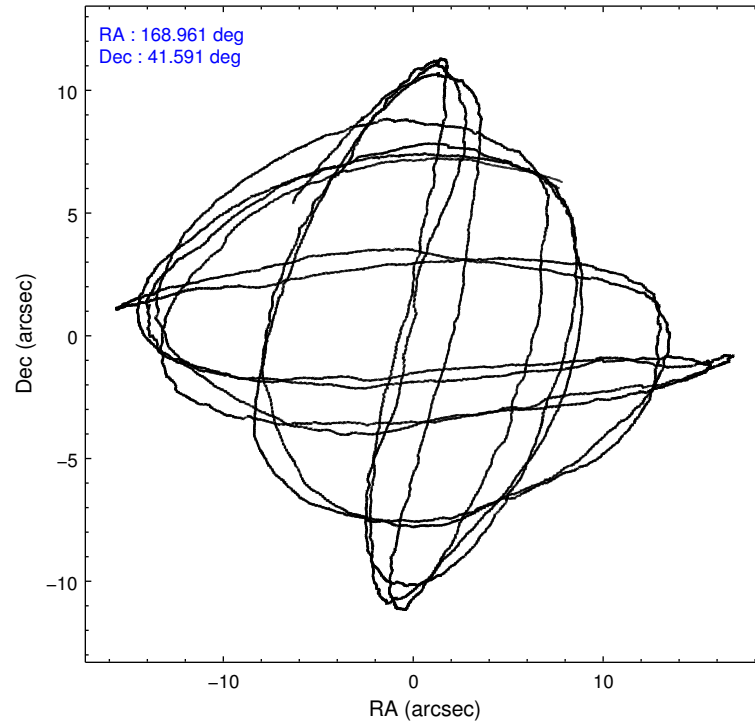
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	8067	3929	1770	2084
	13%	7%	3%	3%
grade 1 events	74	38	18	74
	0%	0%	0%	0%
grade 2 events	1222	1075	1497	5874
	2%	2%	2%	9%
grade 3 events	582	556	493	1911
	1%	1%	0%	2%
grade 4 events	568	527	469	1941
	0%	1%	0%	3%
grade 5 events	1888	2258	2201	5792
	3%	4%	3%	9%
grade 6 events	1076	1106	1452	15559
	1%	2%	2%	24%
grade 7 events	44626	40106	48835	30989
	76%	80%	86%	48%

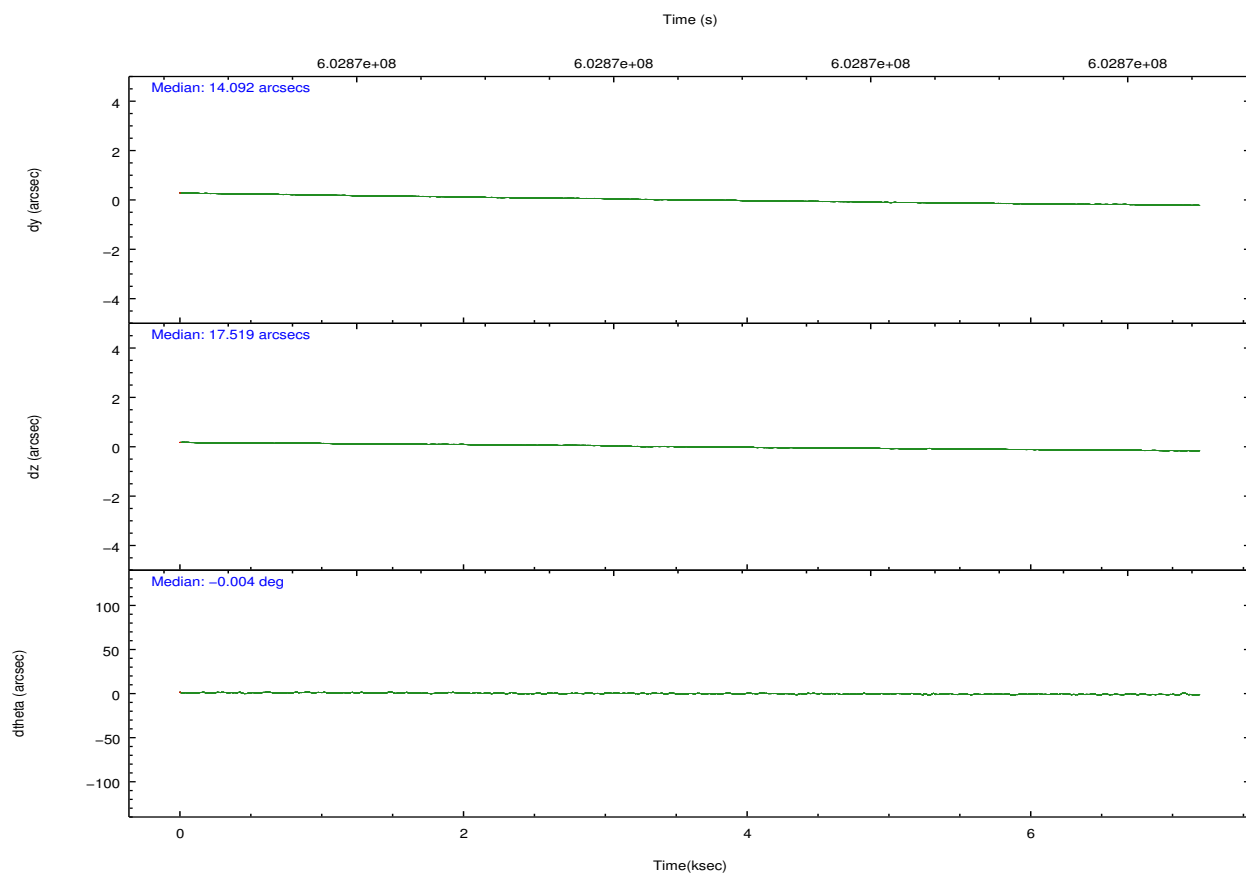
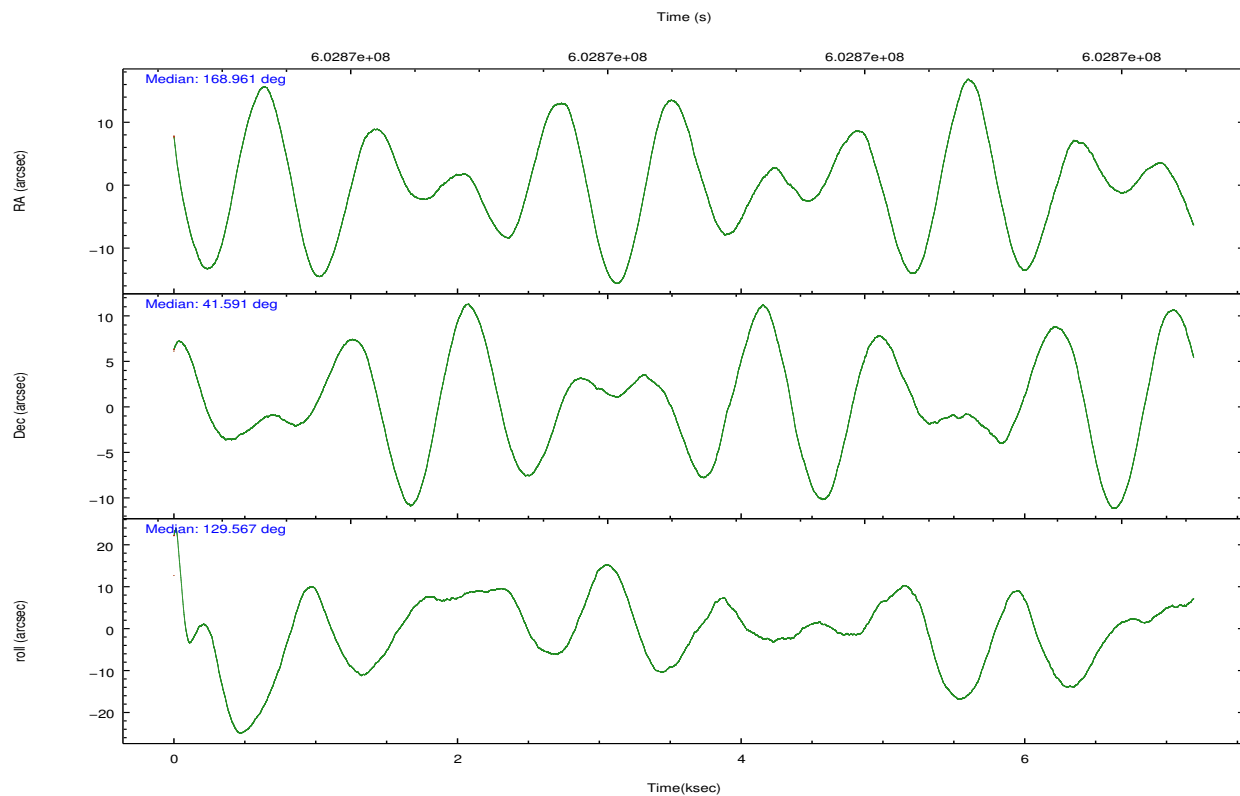
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-2367	ACIS-2367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	168.995547	168.9609493208453
[deg] Pointing Dec	41.581694	41.59097233684607
[deg] Pointing Roll	129.392526	129.5721901326989
[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)	602867180.184000	602865601.5640301
Observation start date	2017-02-07T15:05:11	2017-02-07T14:40:01
[s] Observation end time (MET)	602874180.184000	602874922.91457
Observation end date	2017-02-07T17:01:51	2017-02-07T17:15:22
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	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



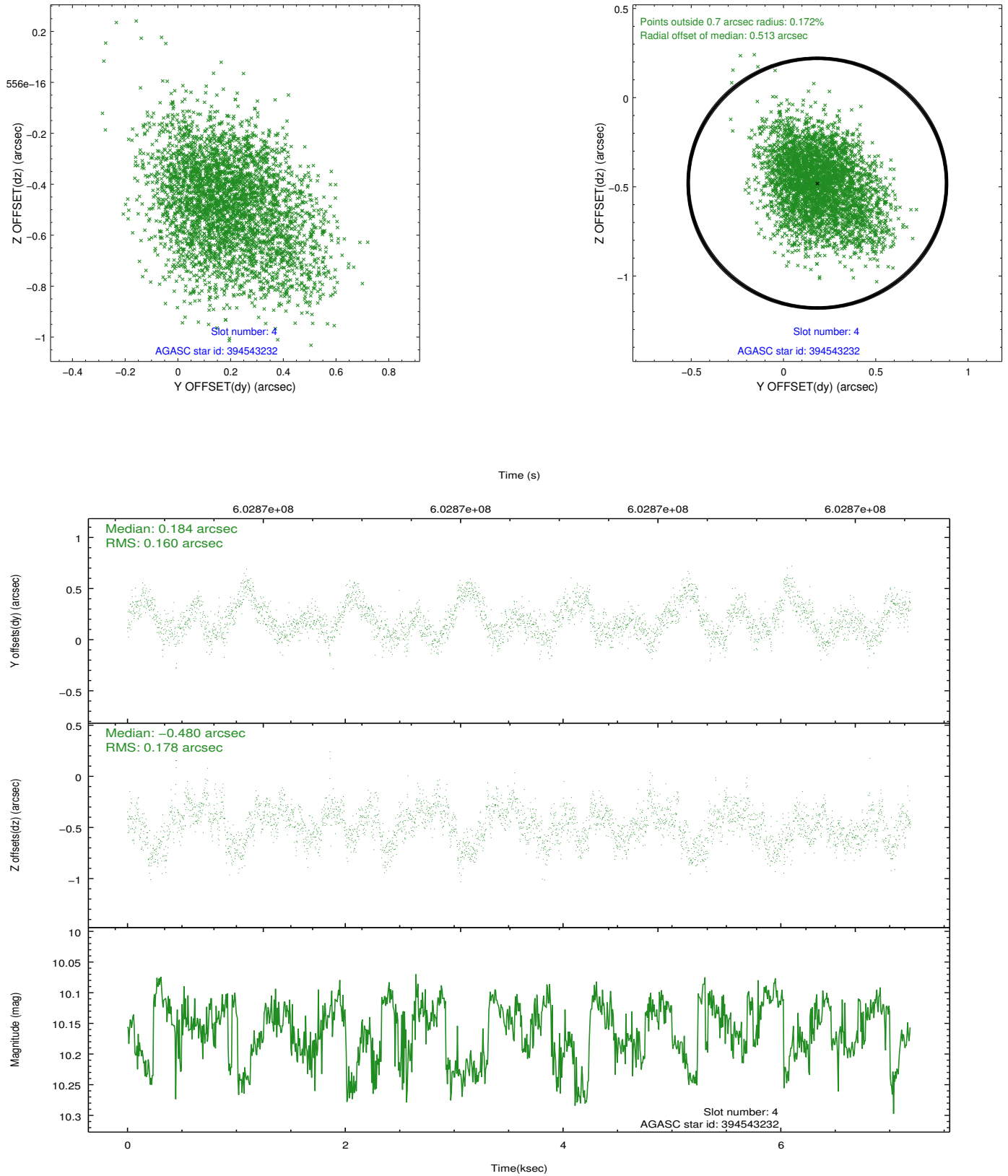


Slot Statistics

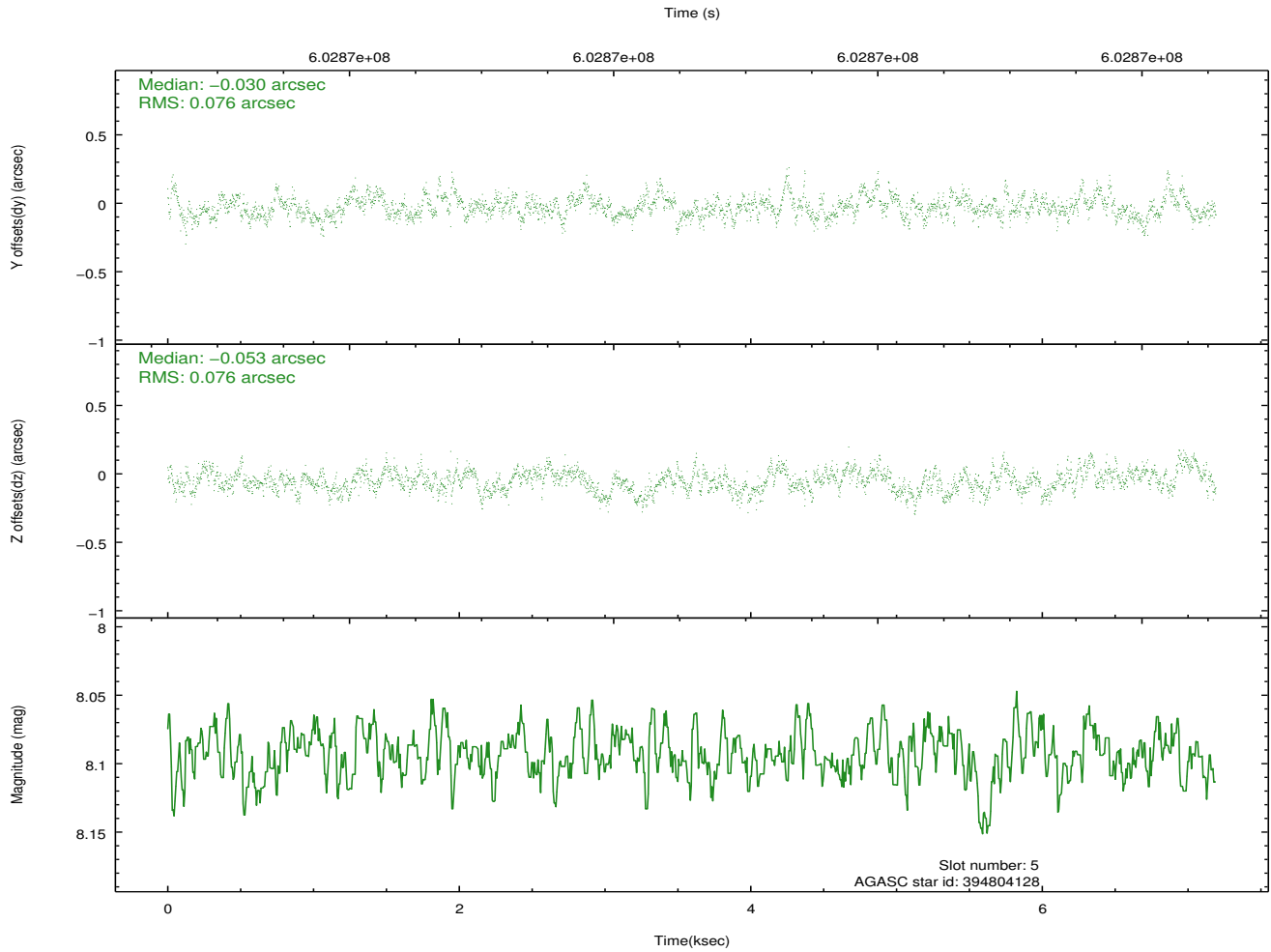
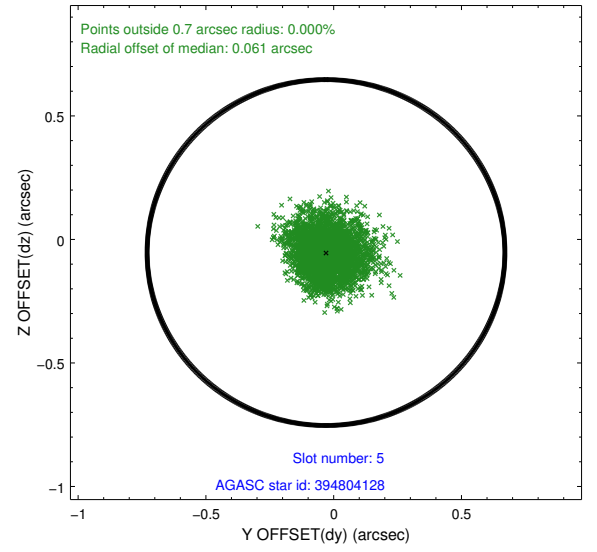
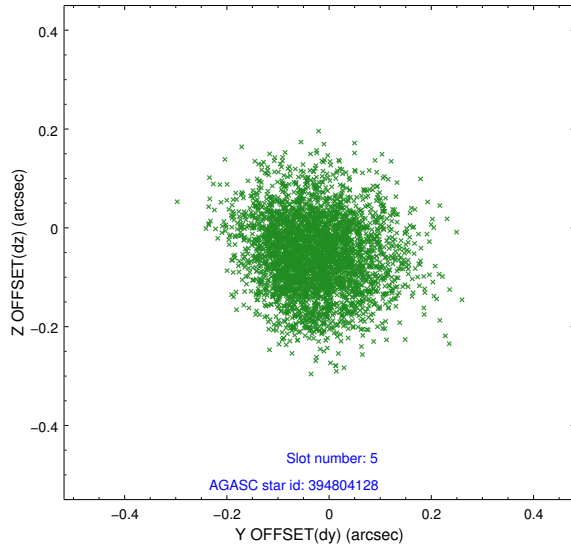
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.15	1755	-0.163	-0.149	0.009	0.015	0.000000	0.000000	-767.22	-1739.06
1	FID		ACIS-S-4	7.26	1755	0.492	0.119	0.007	0.013	0.000000	0.000000	2146.36	168.85
2	FID		ACIS-S-5	7.27	1755	-0.360	0.039	0.007	0.012	0.000000	0.000000	-1819.23	163.36
3	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
4	GUIDE	used	394543232	10.16	3497	0.184	-0.480	0.254	0.415	168.583896	41.162779	-455.72	1818.07
5	GUIDE	used	394804128	8.09	3509	-0.030	-0.053	0.114	0.183	168.900720	42.339369	2268.02	-1534.60
6	GUIDE	used	394804168	9.77	3503	-0.302	0.608	0.189	0.319	169.296584	42.333356	1584.33	-2336.54
7	GUIDE	used	394542408	10.10	3496	0.139	-0.056	0.271	0.428	169.338660	40.963063	-2311.46	691.57

2.4 Star Slots

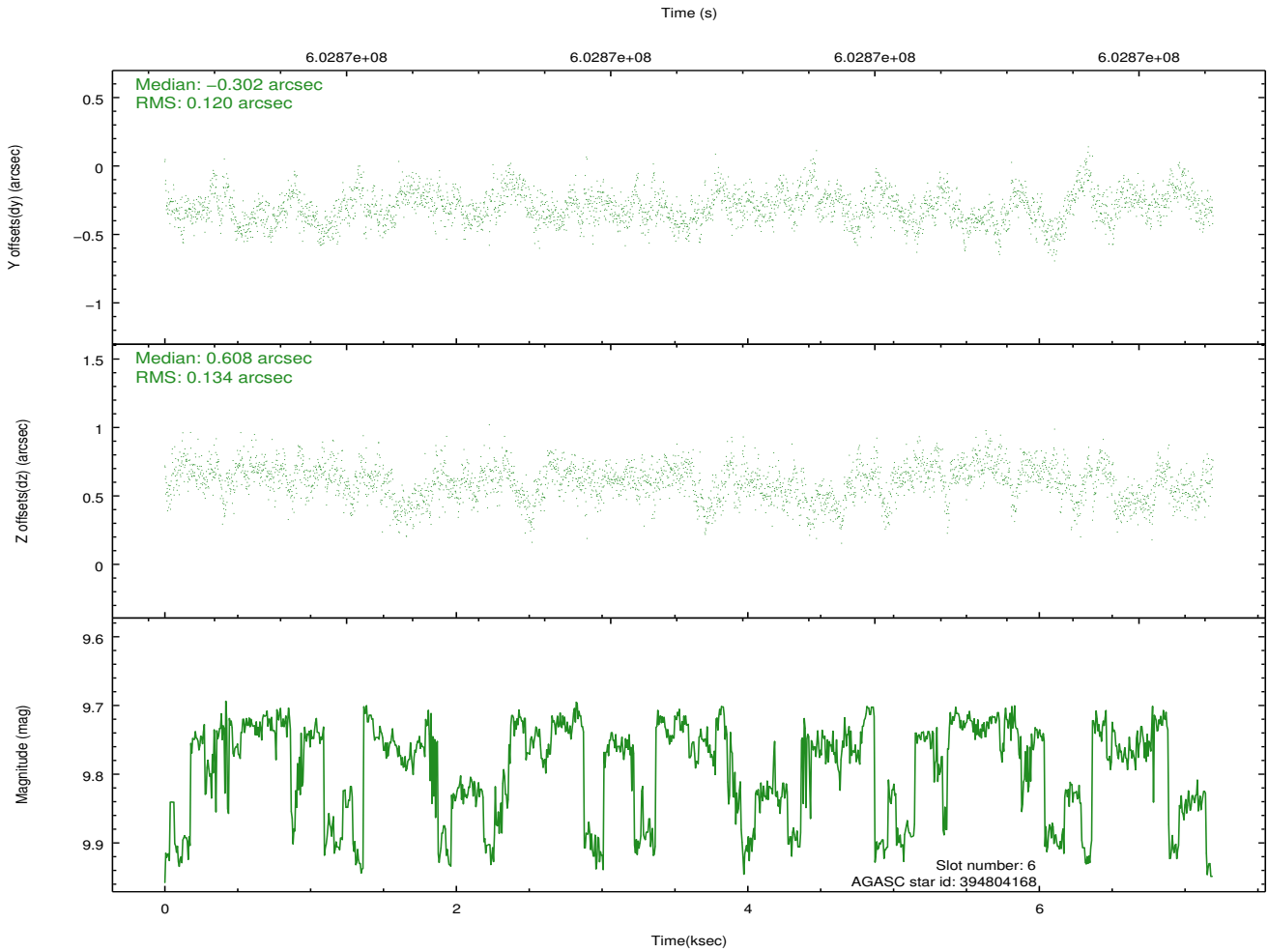
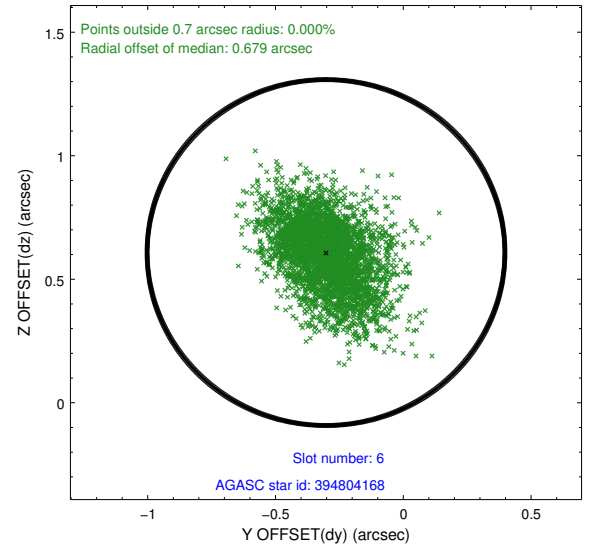
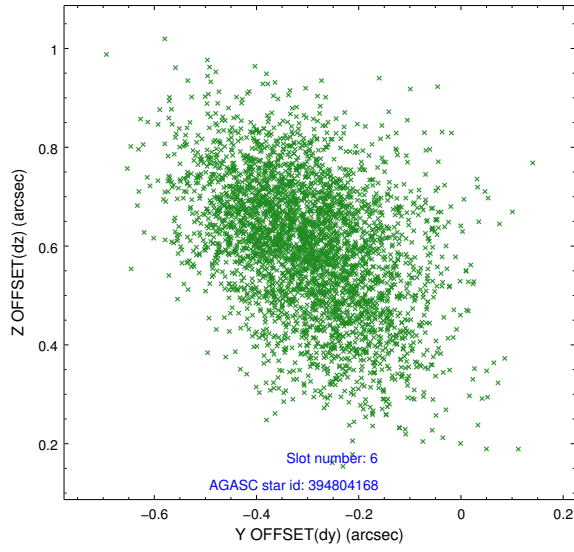
2.4.1 Slot 4



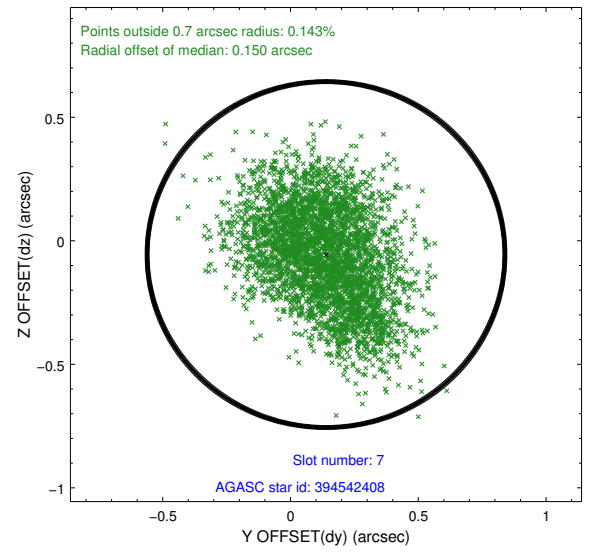
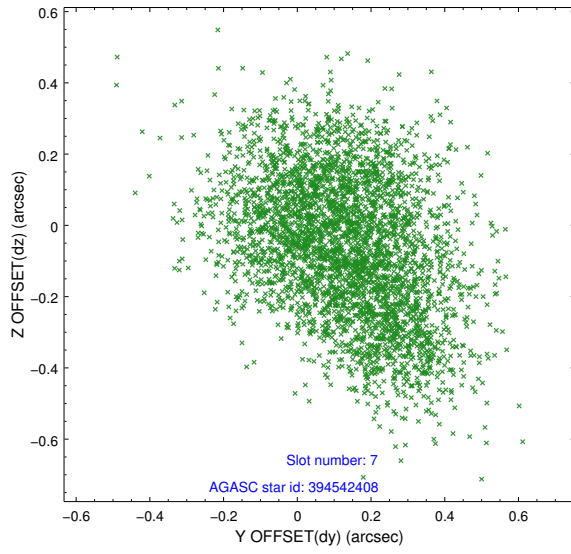
2.4.2 Slot 5



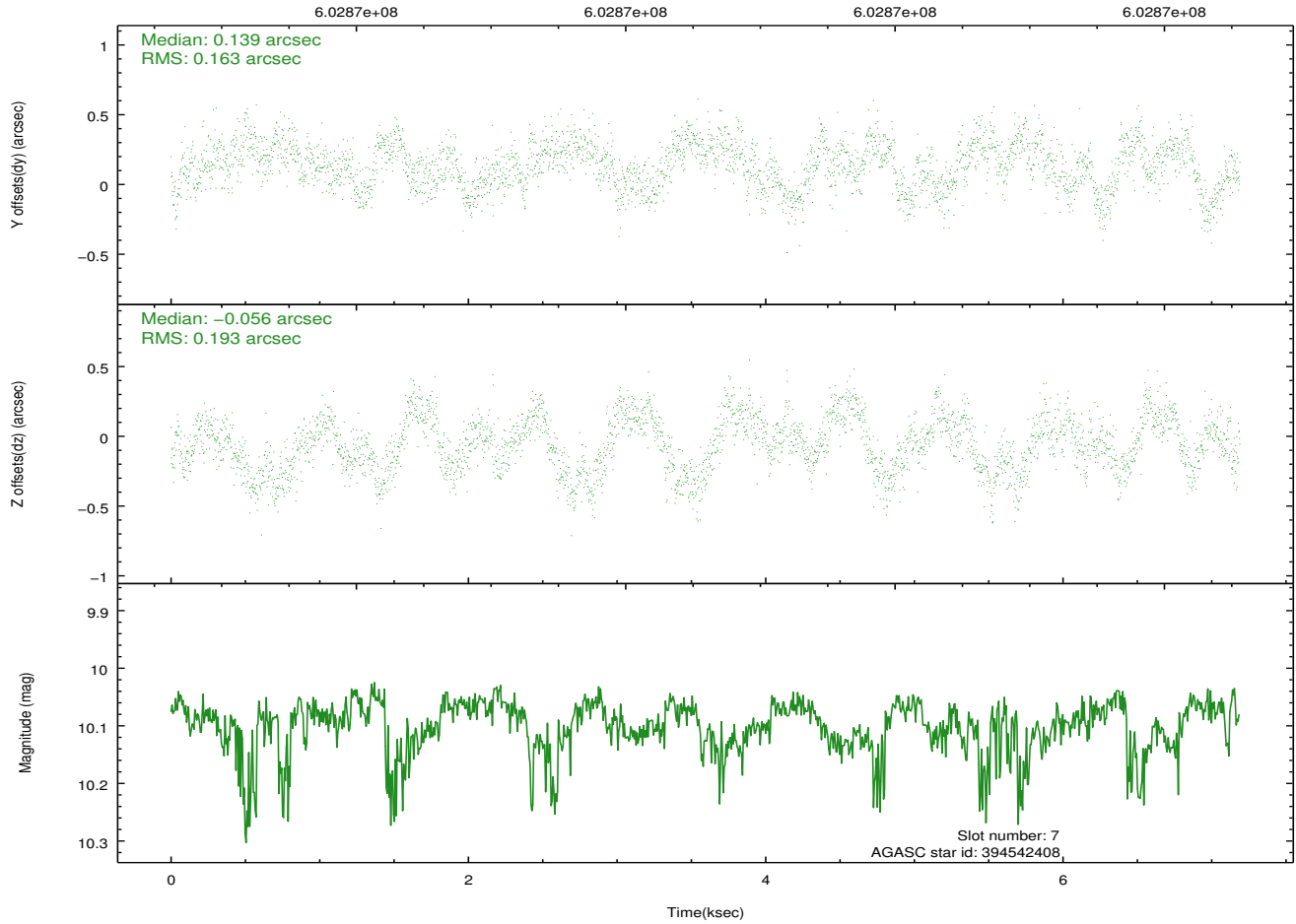
2.4.3 Slot 6



2.4.4 Slot 7

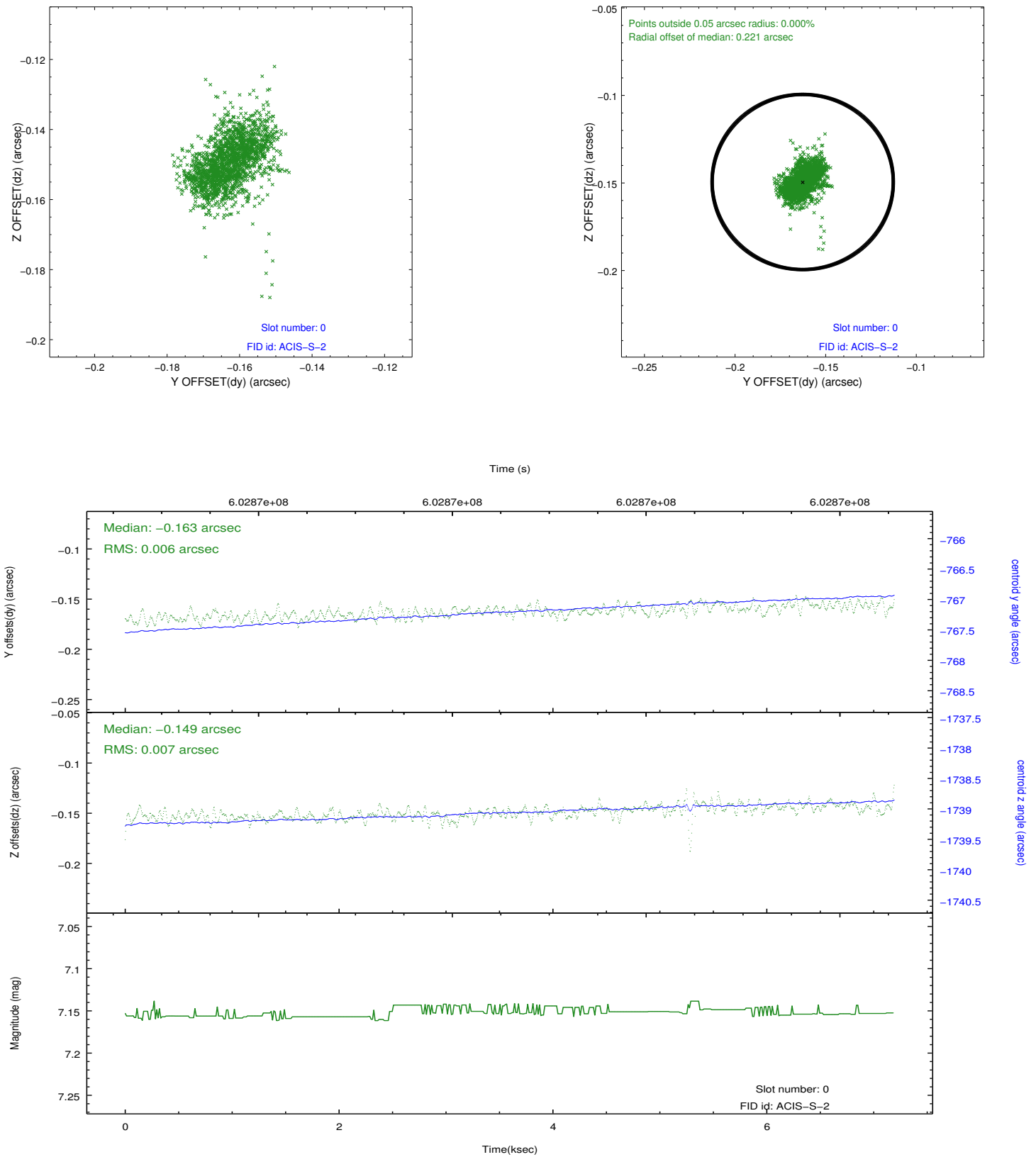


Time (s)

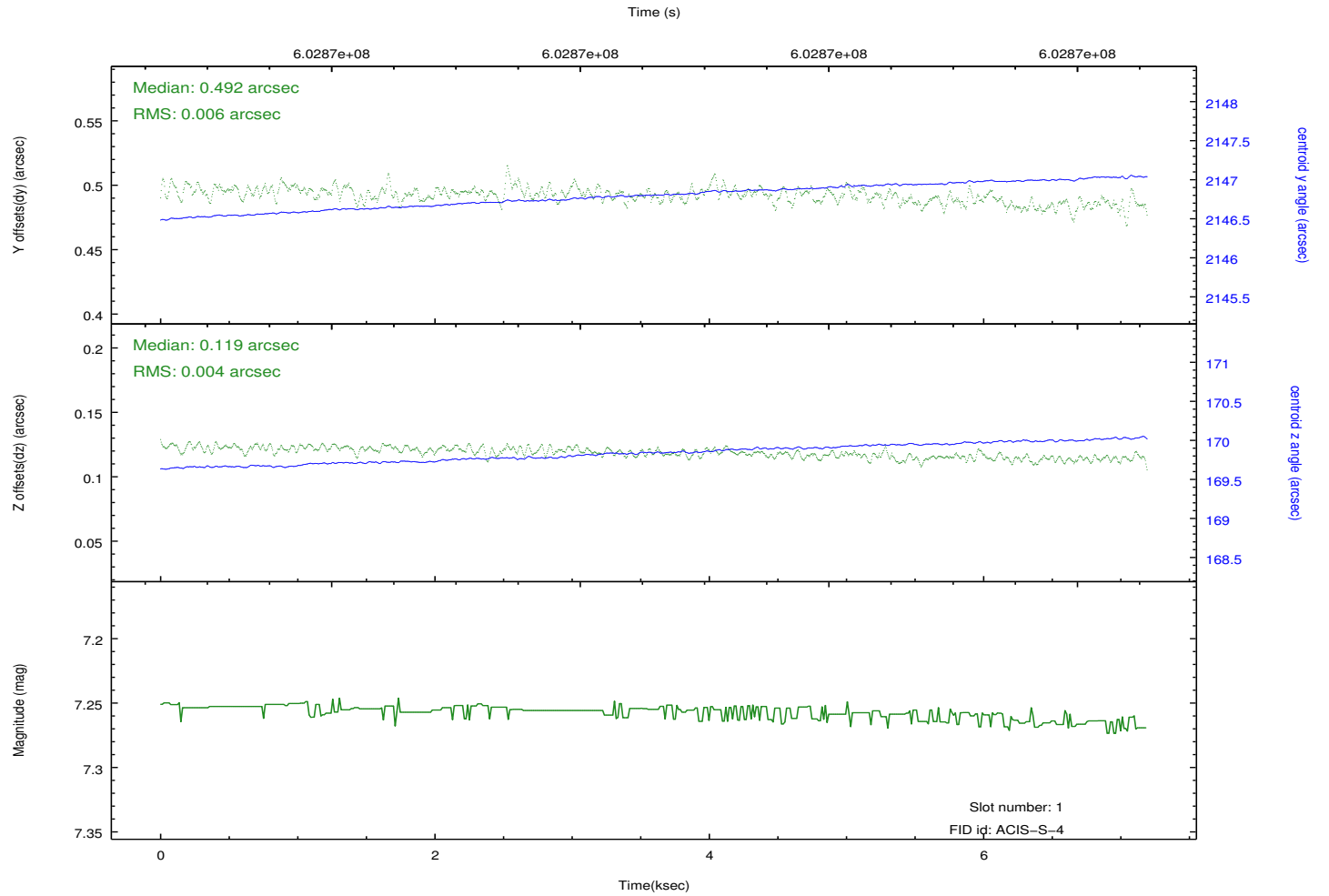
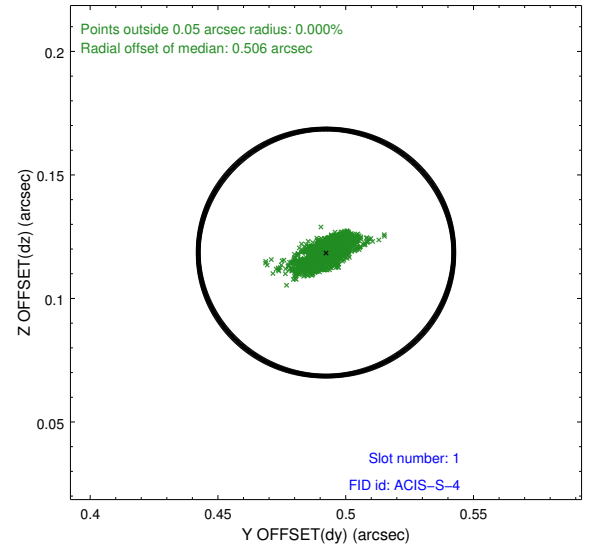
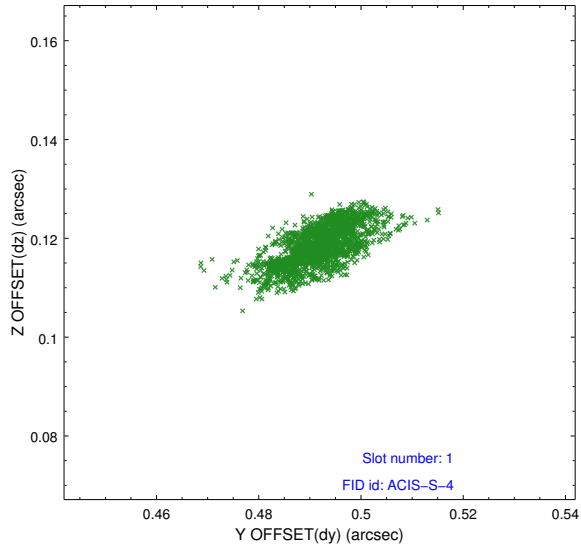


2.5 FID Slots

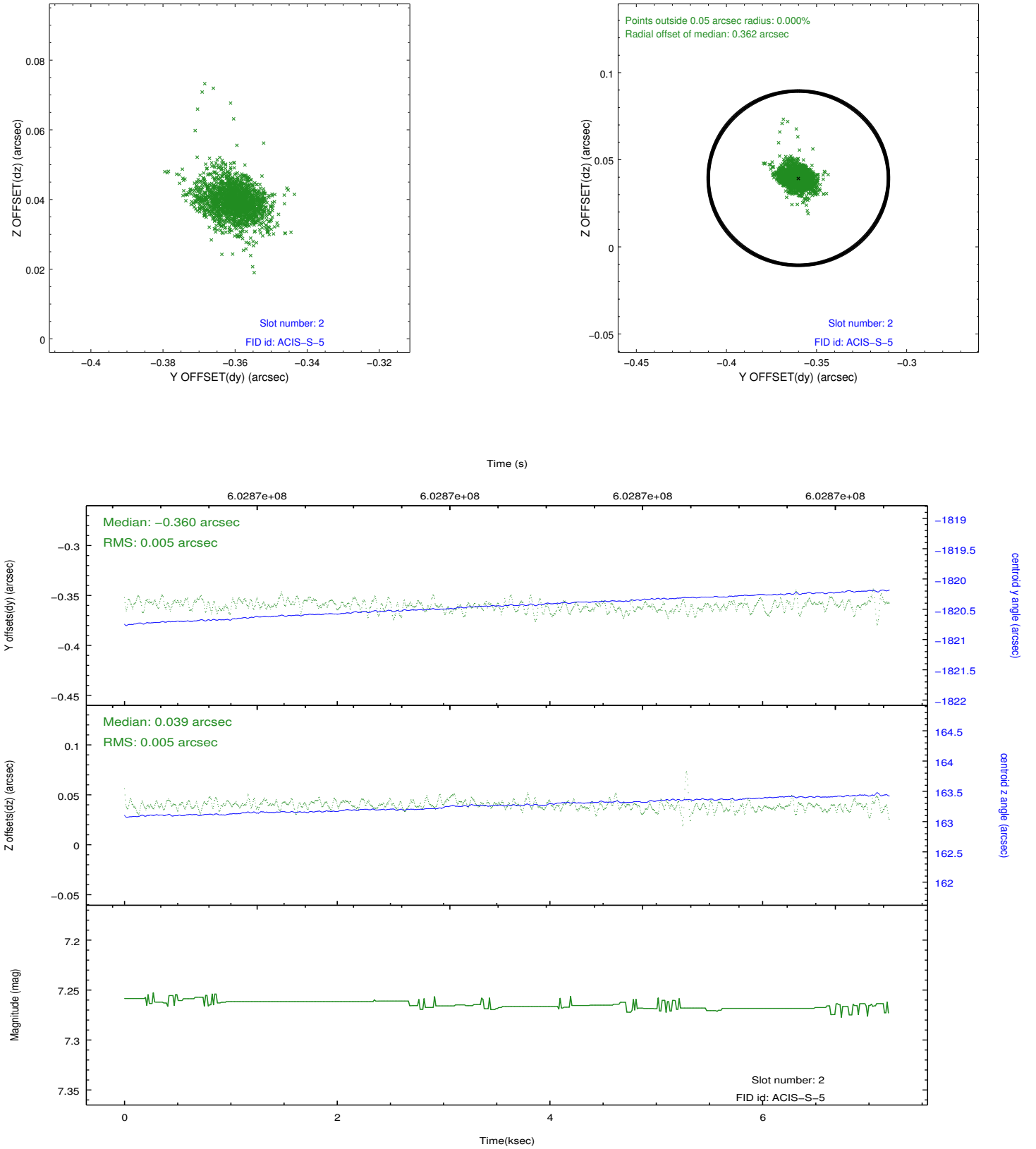
2.5.1 Slot 0



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)	2017.02.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.0678985583782

A.2 Comments

The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.