

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22000 - L2 Version 1
Chandra X-Ray Center

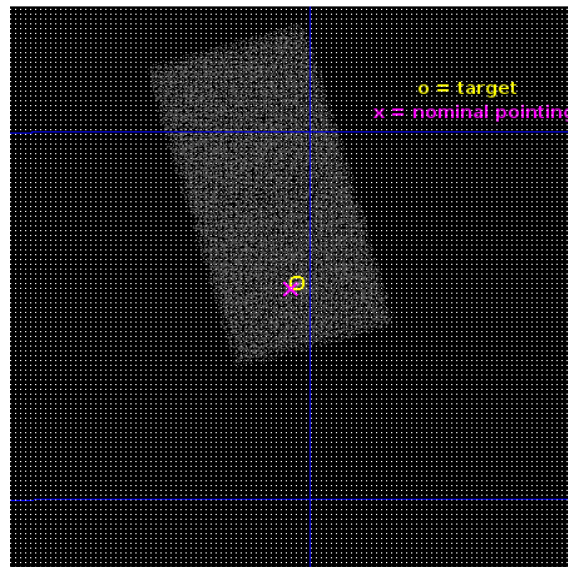
L2 Processing Date : Dec 14 2018

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1 Front

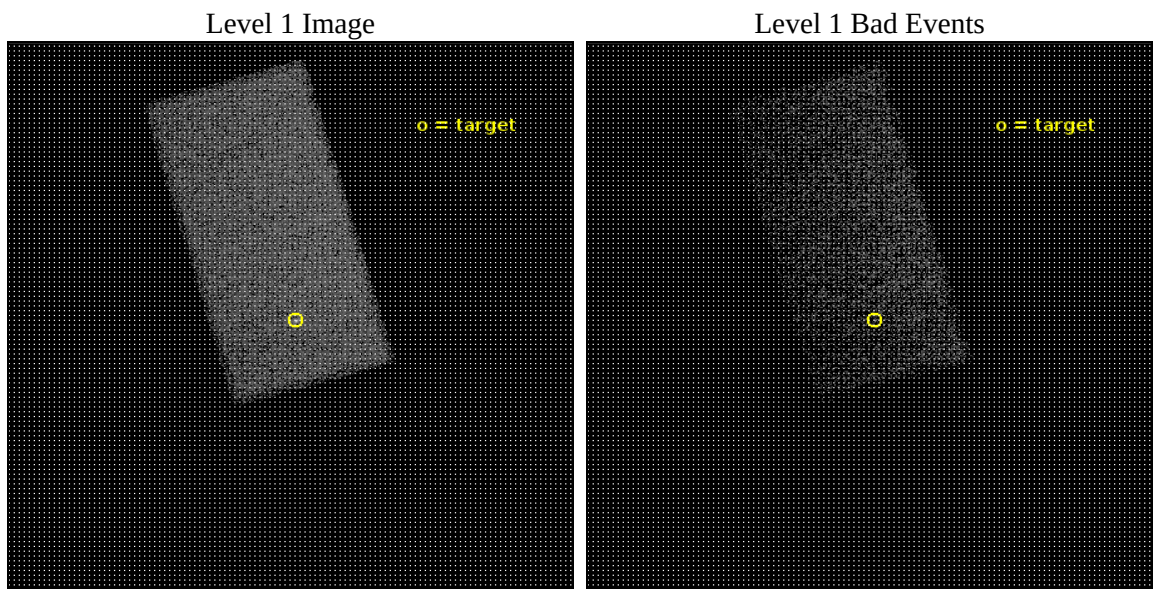
seq_num	703763	Sequence number
obs_id	22000	Observation id
title	Feedback in the Molecular Disk of the Radio-Loud Seyfert Galaxy IC 5063	Proposal title
observer	Giuseppina Fabbiano	Principal investigator
object	IC5063	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	313.009583	Observer's specified target RA [deg]
dec_targ	-57.068889	Observer's specified target Dec [deg]
ra_nom	313.01464018216	Nominal RA [deg]
dec_nom	-57.071159499719	Nominal Dec [deg]
roll_nom	253.86085301972	Nominal Roll [deg]
revision	1	Processing version of data
ontime	16068.0	Sum of GTIs [s]
livetime	15640.08721383	Livetime [s]
ontime7	16068.0	Sum of GTIs [s]
l2events	36393	Number of level 2 events



2 OBI

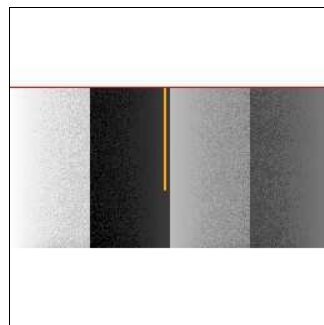
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	16000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	16068.0	Sum of GTIs [s]
caldbver	4.8.2	 	ontime7	16068.0	Sum of GTIs [s]
date	2018-12-14T12:00:07	Date and time of file creation	l1events	80482	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

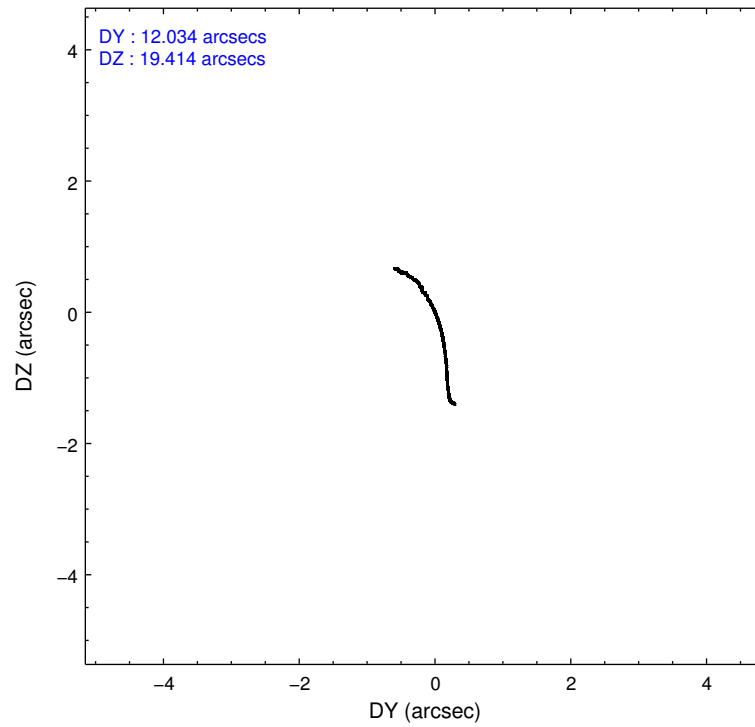
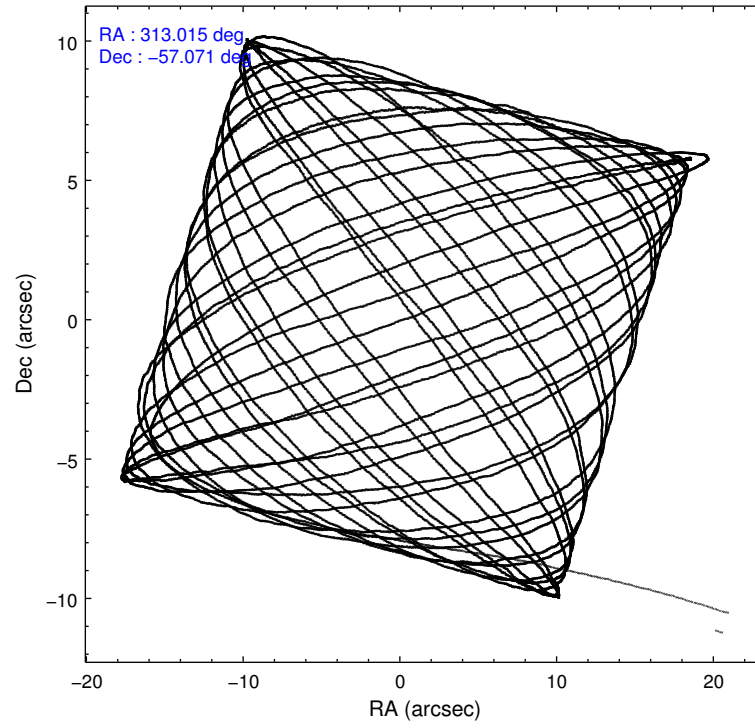
	ccd 7
level 1 events	80482
rejected events	43075
rejected %	53%

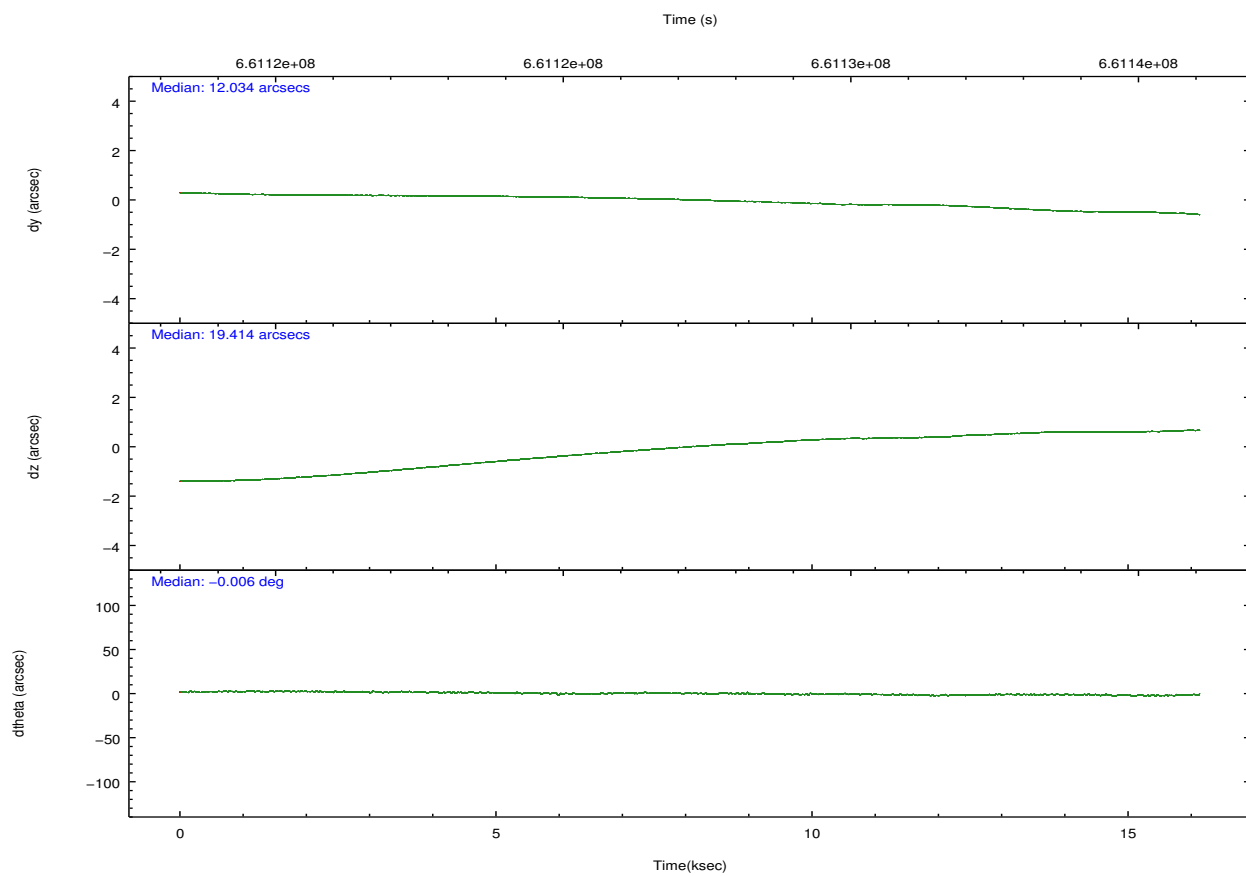
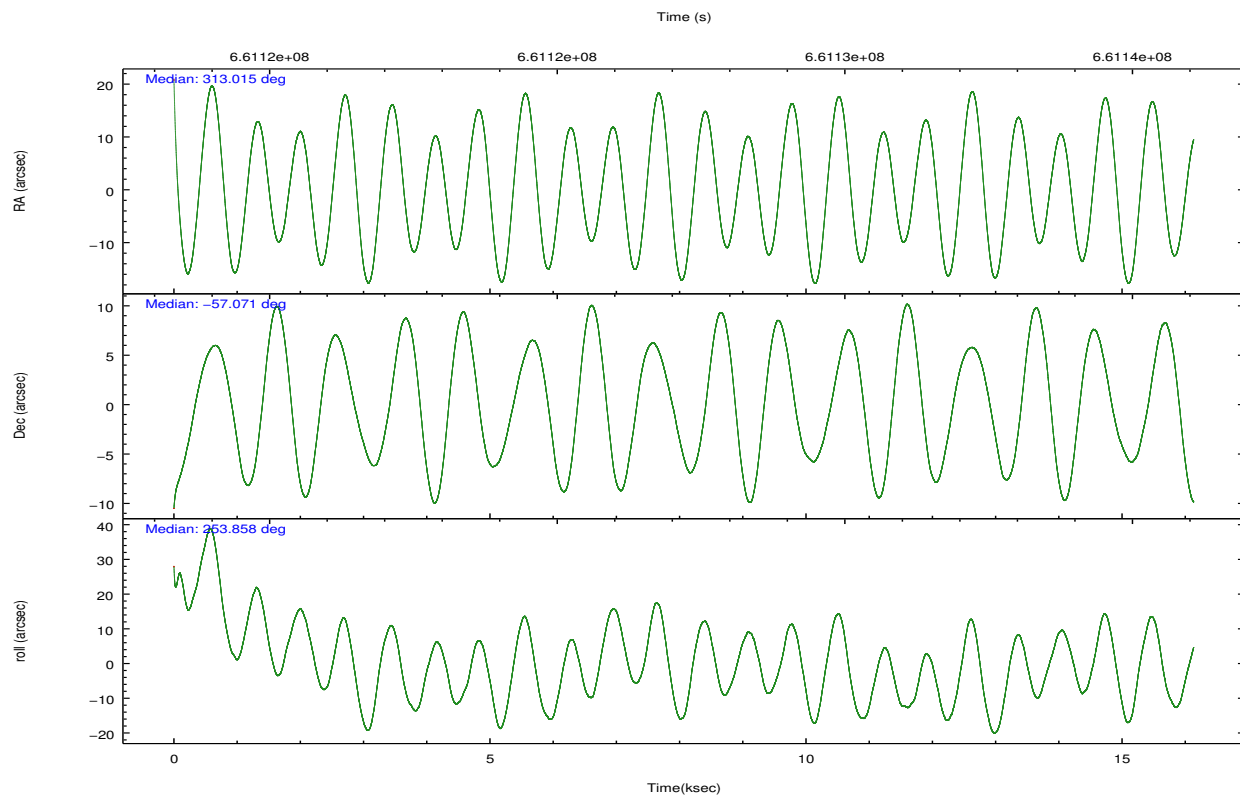
	ccd 7
grade 0 events	3691
	4%
grade 1 events	127
	0%
grade 2 events	7480
	9%
grade 3 events	3601
	4%
grade 4 events	3386
	4%
grade 5 events	7710
	9%
grade 6 events	19255
	23%
grade 7 events	35232
	43%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	313.001940	313.0146401821627	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-57.044582	-57.07115949971884	Subarray start row	257	257
[deg] Pointing Roll	253.693589	253.8608530197153	Subarray row count	512	512
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1.5
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	661119245.184000	661117948.9435101			
Observation start date	2018-12-13T20:12:56	2018-12-13T19:52:28			
[s] Observation end time (MET)	661135245.184000	661136592.66962			
Observation end date	2018-12-14T00:39:36	2018-12-14T01:03:12			
Read mode	TIMED	TIMED			

2.3 Aspect



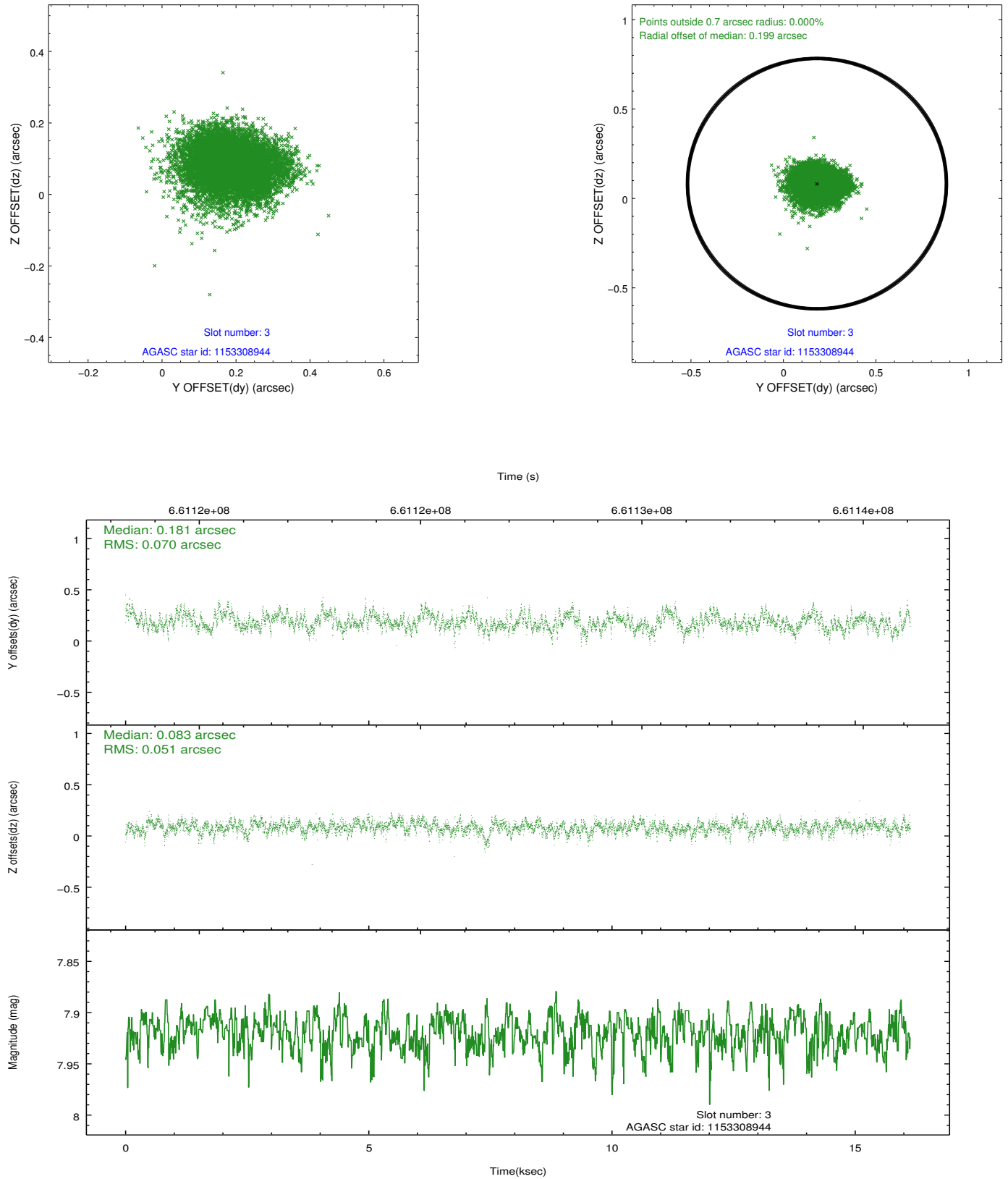


Slot Statistics

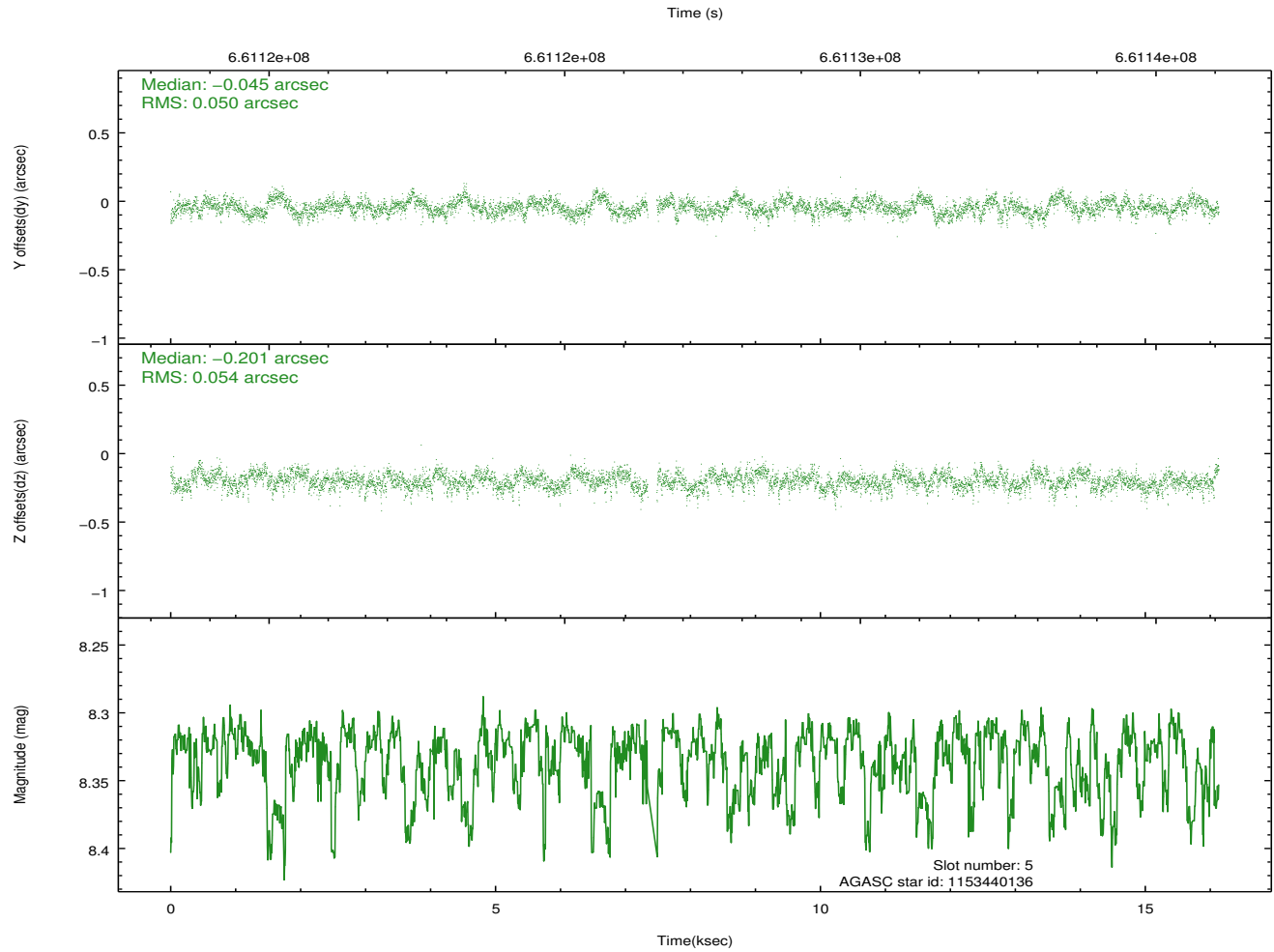
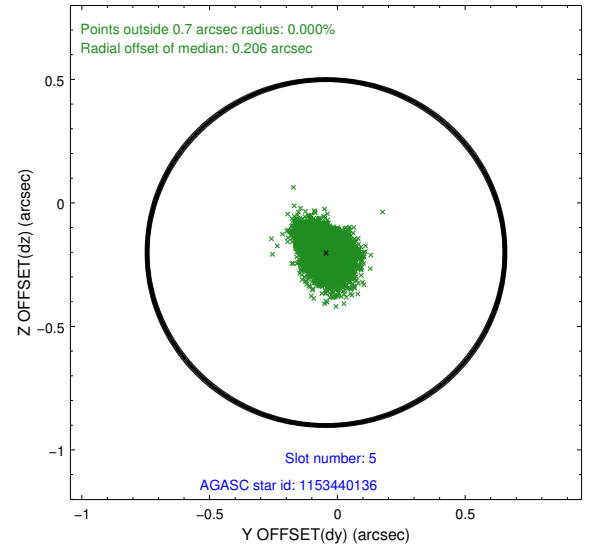
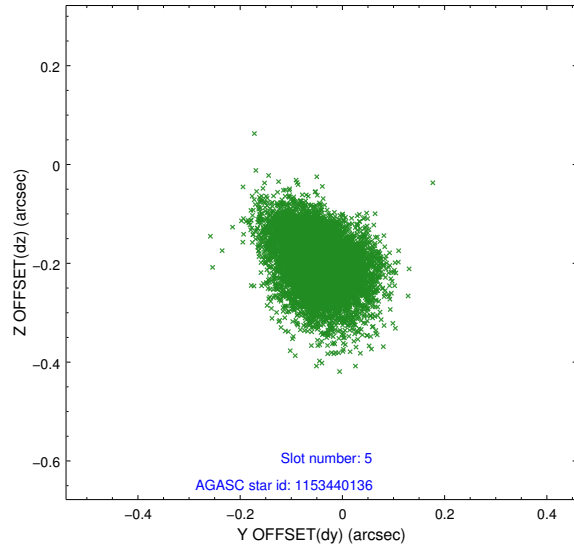
id	status	used	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.15	3936	1.000	-0.284	-0.176	0.051	0.065	0.000000	0.000000	-765.07 -1740
1	FID		ACIS-S-4	7.29	3936	1.000	0.730	0.184	0.018	0.032	0.000000	0.000000	2149.01 167
2	FID		ACIS-S-5	7.28	3935	1.000	-0.481	0.001	0.055	0.088	0.000000	0.000000	-1817.84 161
3	GUIDE	used	1153308944	7.92	7869	1.000	0.181	0.083	0.092	0.151	313.182696	-56.719599	-1222.38 14
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00 0
5	GUIDE	used	1153440136	8.33	7797	1.000	-0.045	-0.201	0.078	0.127	314.021553	-57.000444	-699.77 1878
6	GUIDE	used	1153442384	8.91	7854	1.000	-0.019	0.177	0.115	0.203	314.026470	-56.702902	-1734.57 1602
7	GUIDE	used	1153439192	8.26	7870	1.000	-0.118	-0.053	0.123	0.180	313.849459	-57.867725	2398.20 2393

2.4 Star Slots

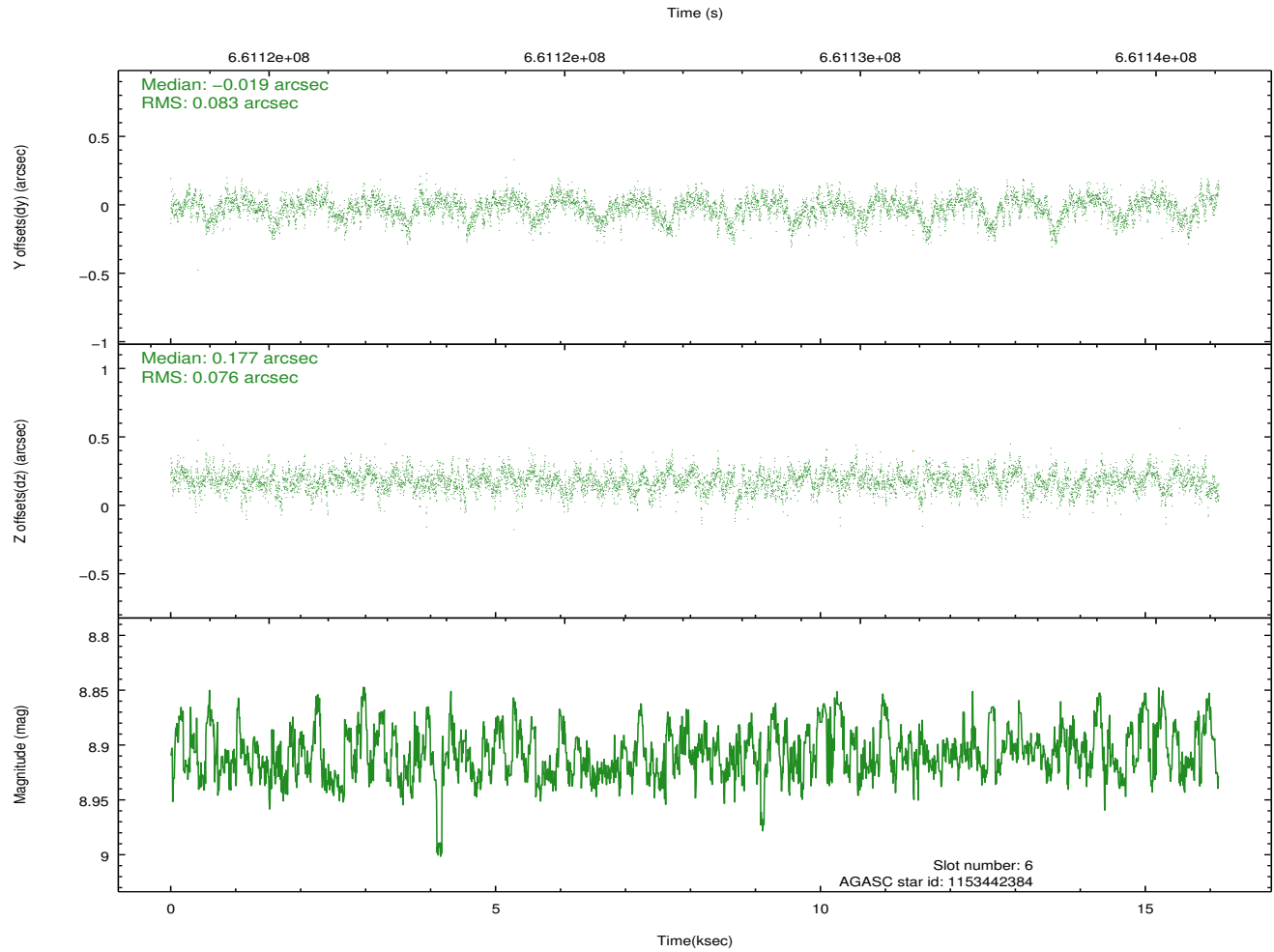
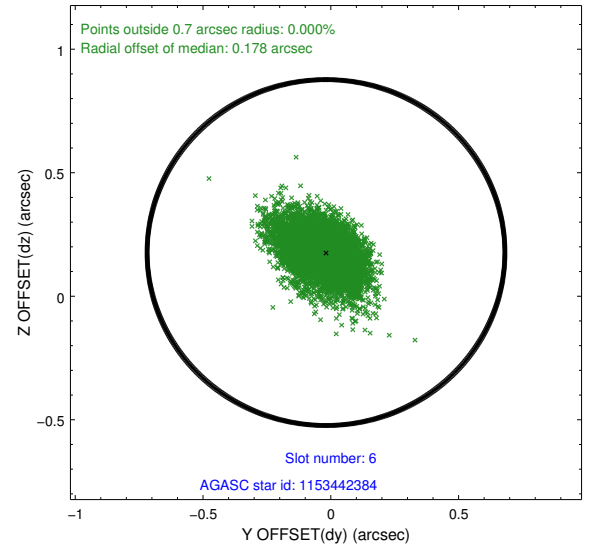
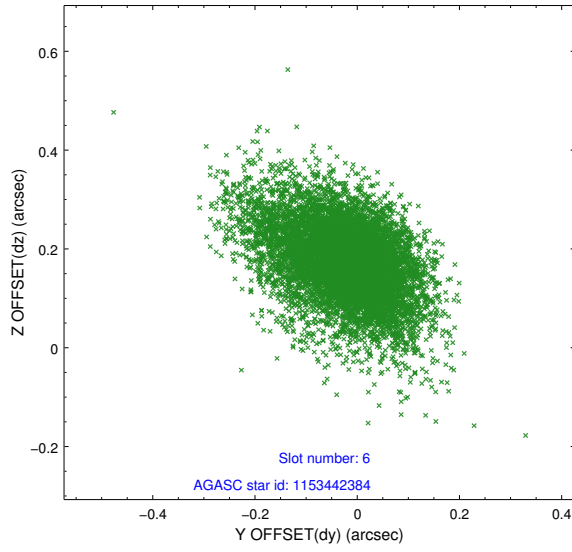
2.4.1 Slot 3



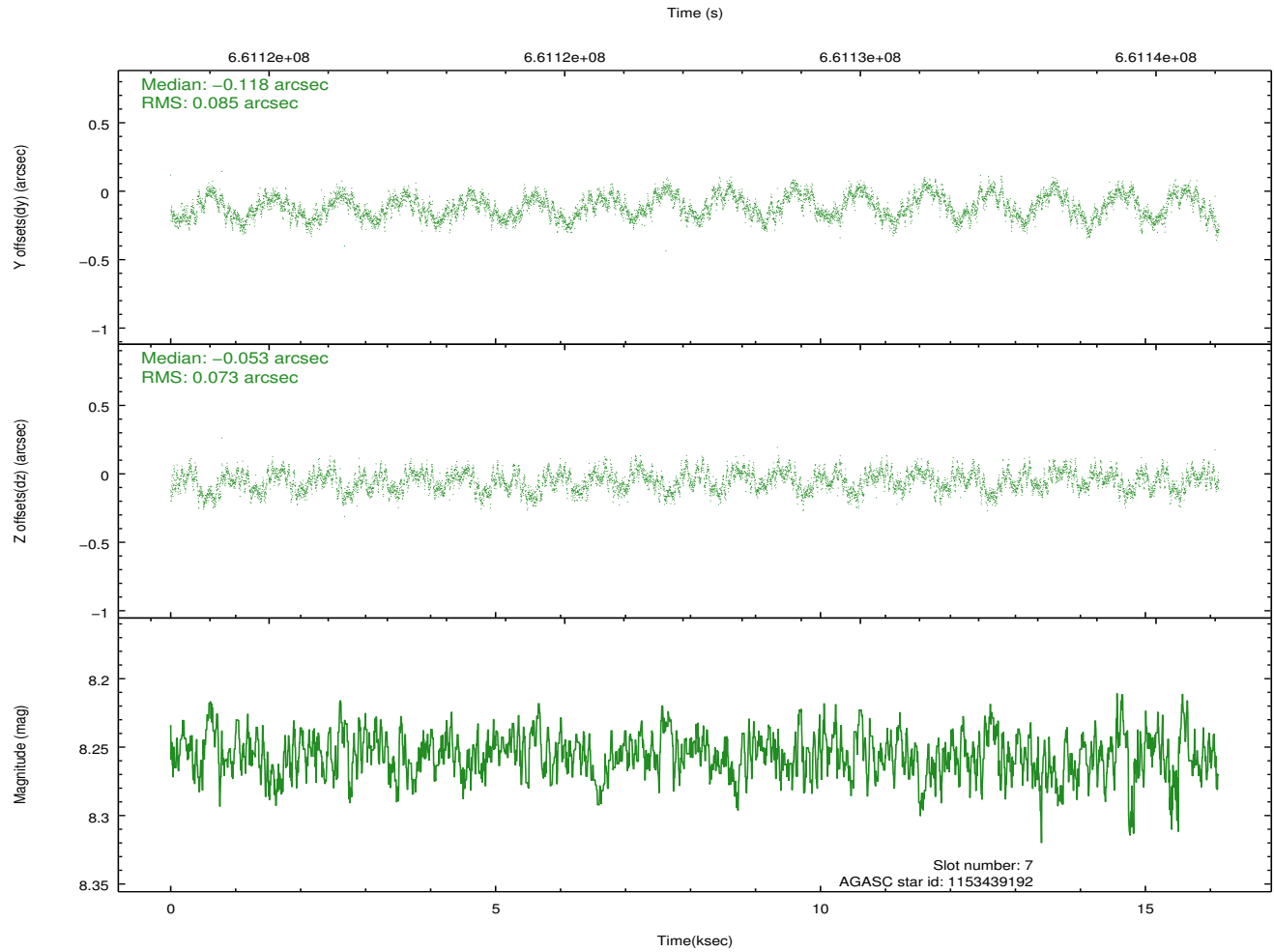
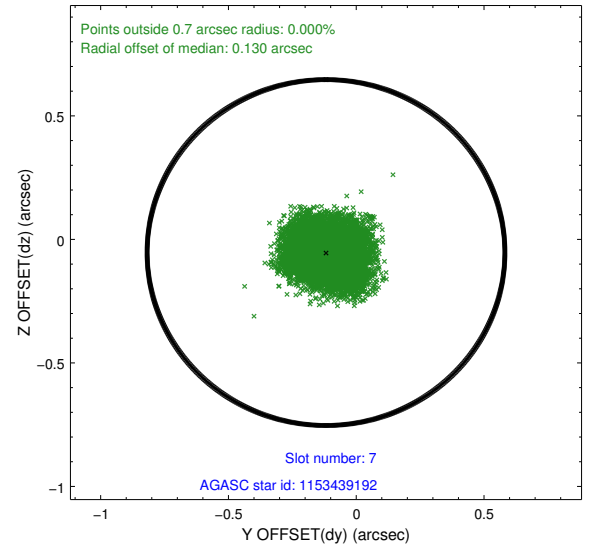
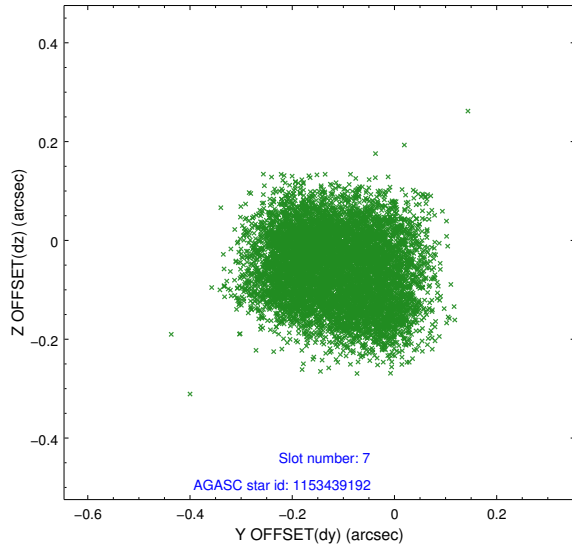
2.4.2 Slot 5



2.4.3 Slot 6

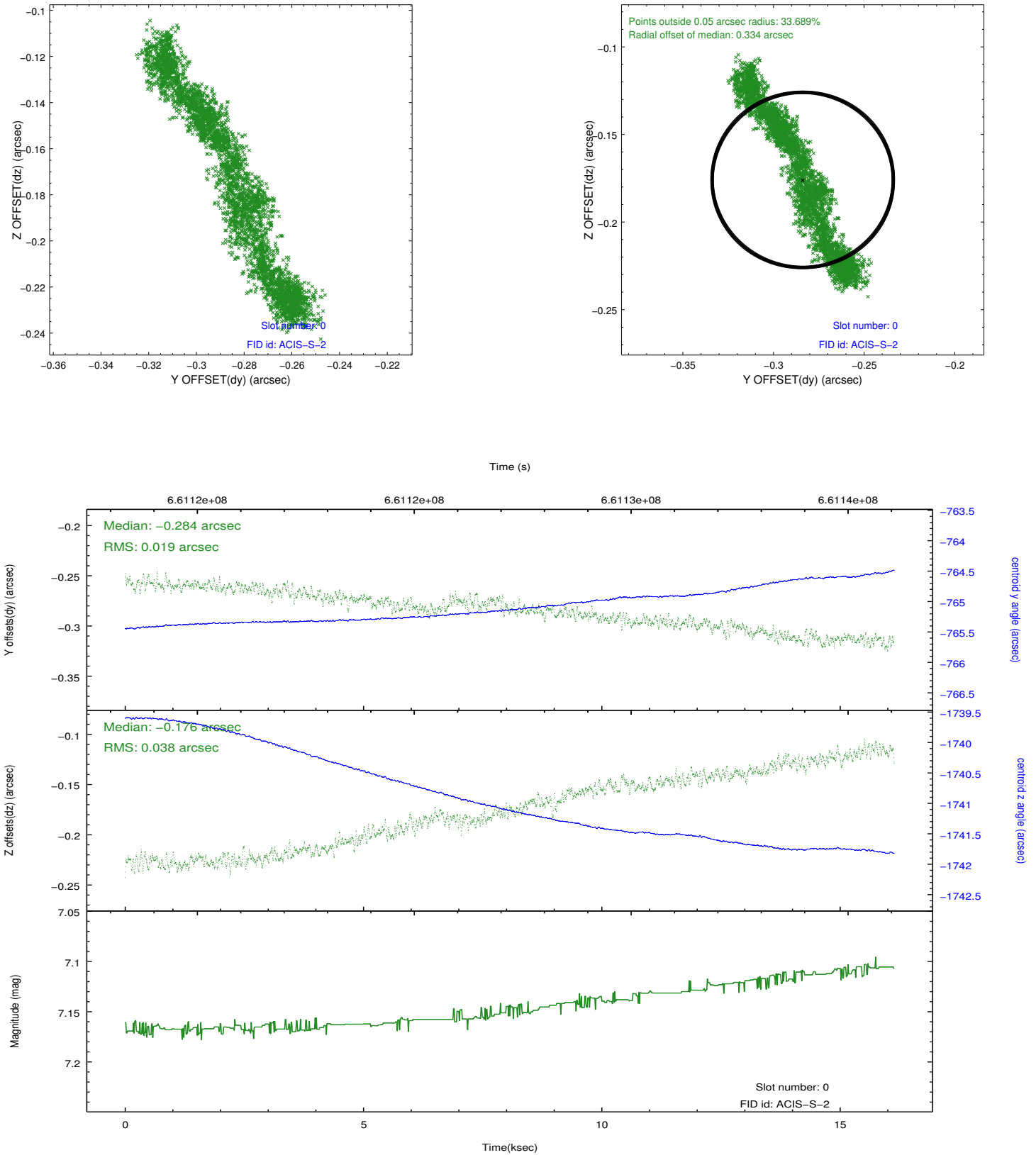


2.4.4 Slot 7

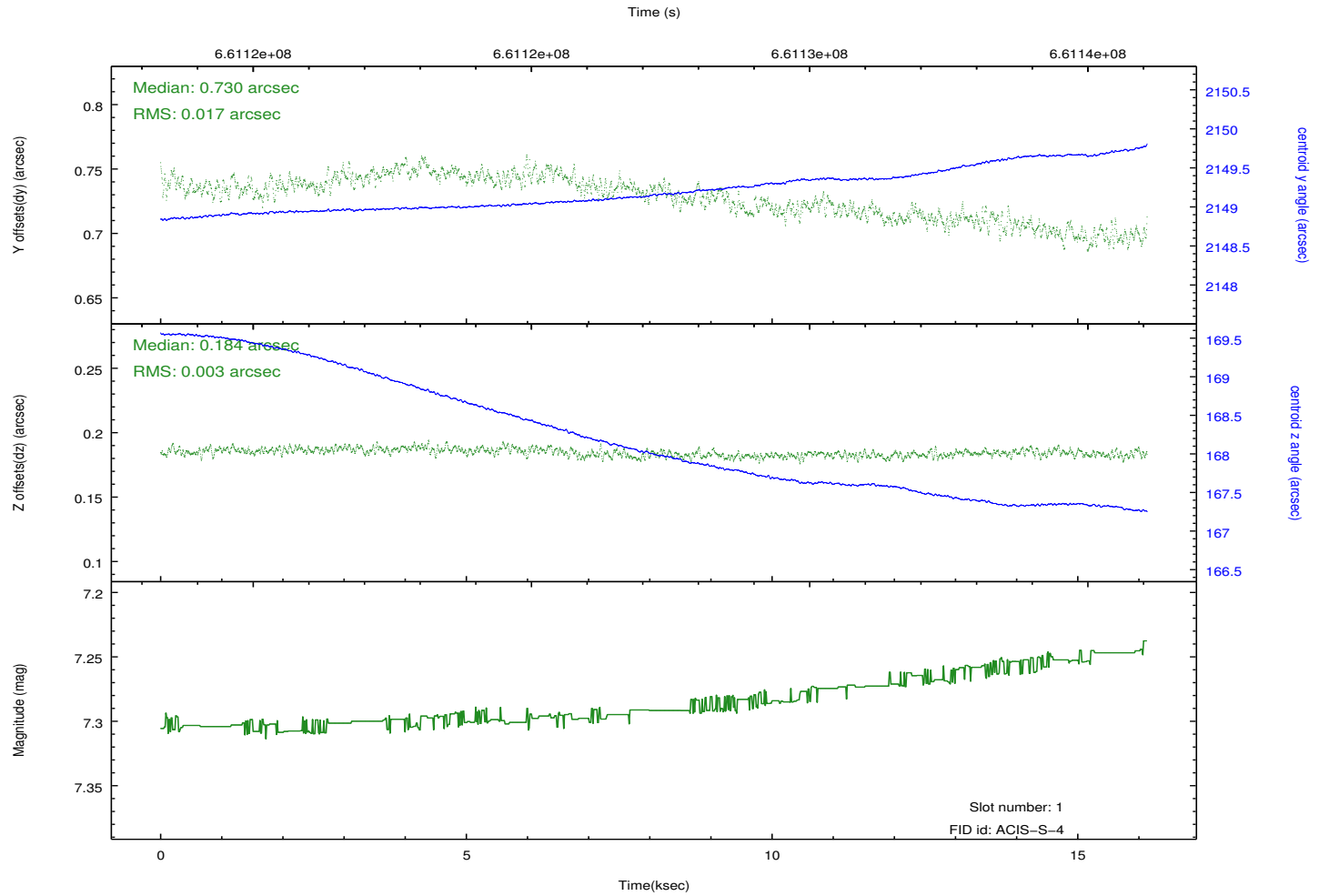
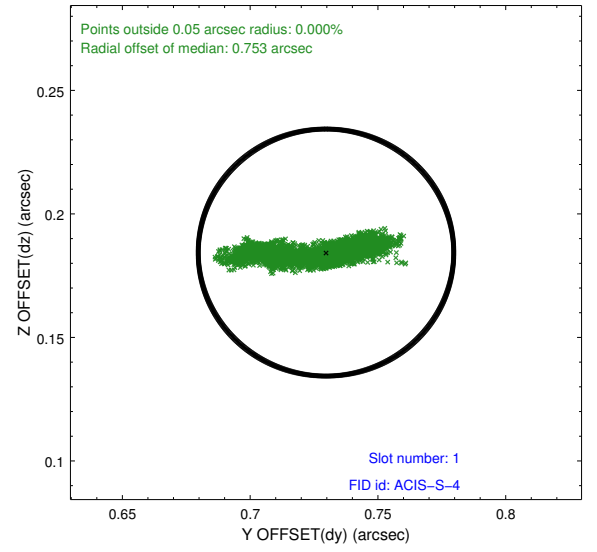
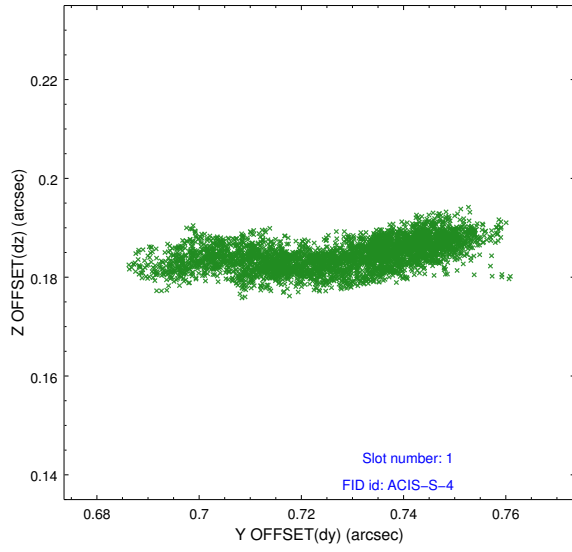


2.5 FID Slots

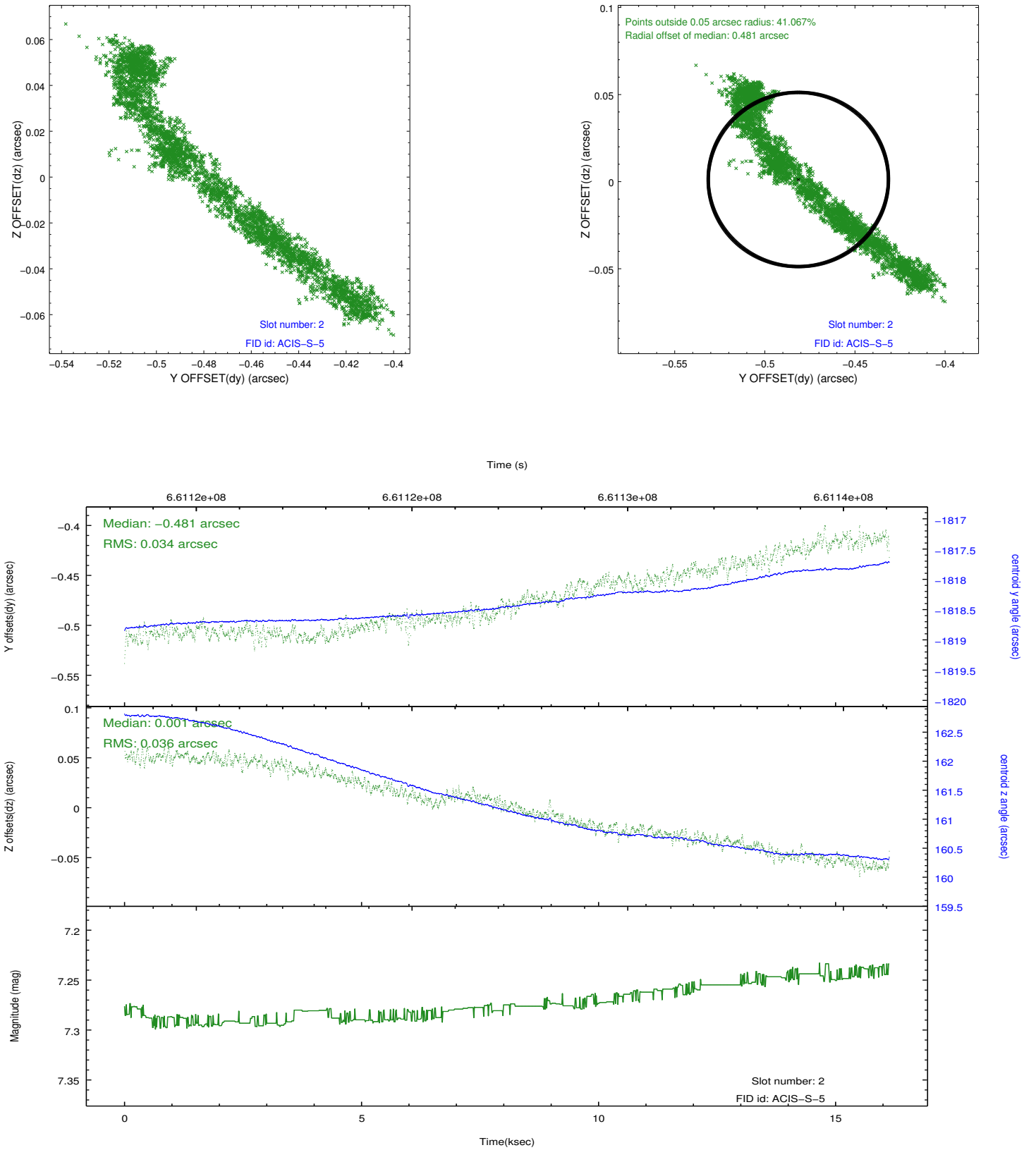
2.5.1 Slot 0



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)	2018.12.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.068

A.2 Comments

Joint proposal with HST.

The guide star in slot 4 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.