

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18255 - L2 Version 1
Chandra X-Ray Center

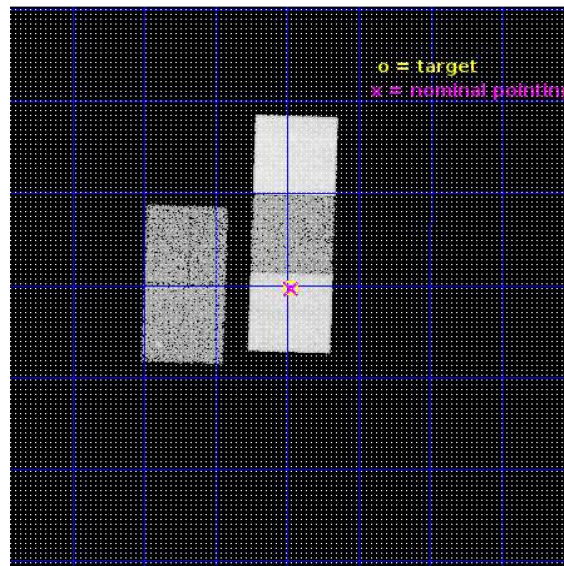
L2 Processing Date : Sep 13 2016

Contents

1	Front	2
2	OBI	3
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
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

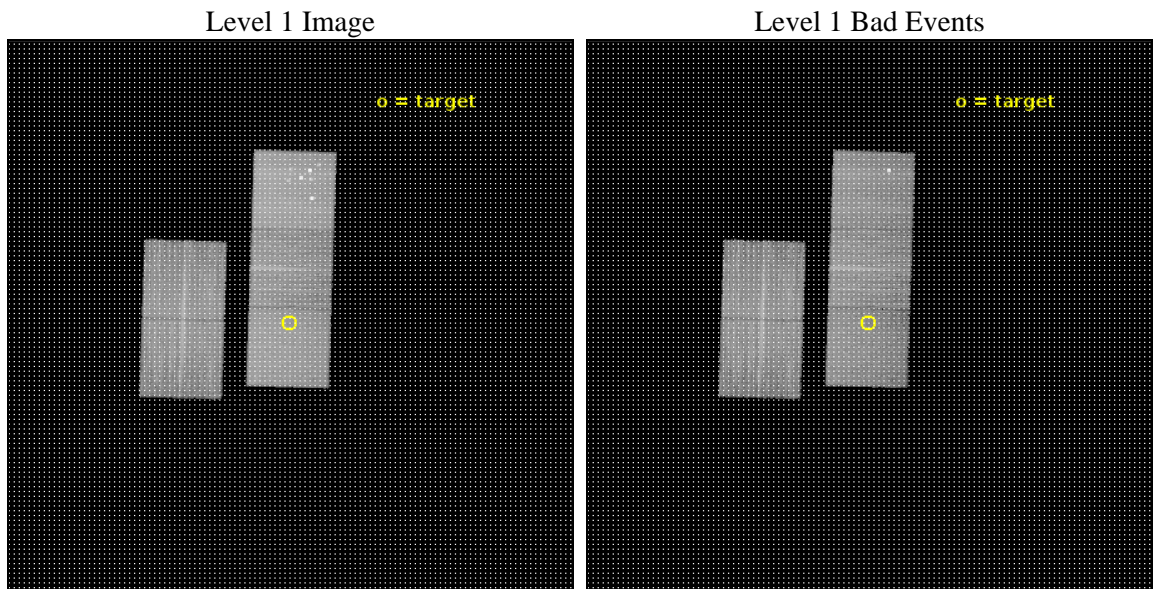
seq_num	801579	Sequence number
obs_id	18255	Observation id
title	Building a complete sample of $z>1$ XXL galaxy clusters	Proposal tit
observer	Dr Ben Maughan	Principal investigator
object	XLSSU J021458.6-033020	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	33.745	Observer's specified target RA [deg]
dec_targ	-3.506	Observer's specified target Dec [deg]
ra_nom	33.743139259505	Nominal RA [deg]
dec_nom	-3.5065539715396	Nominal Dec [deg]
roll_nom	91.782350553272	Nominal Roll [deg]
revision	1	Processing version of data
ontime	18141.200139642	Sum of GTIs [s]
livetime	17904.17200446	Livetime [s]
ontime2	18138.059049368	Sum of GTIs [s]
ontime3	18141.200139642	Sum of GTIs [s]
ontime5	18141.200139642	Sum of GTIs [s]
ontime6	18141.200139642	Sum of GTIs [s]
ontime7	18141.200139642	Sum of GTIs [s]
l2events	181843	Number of level 2 events



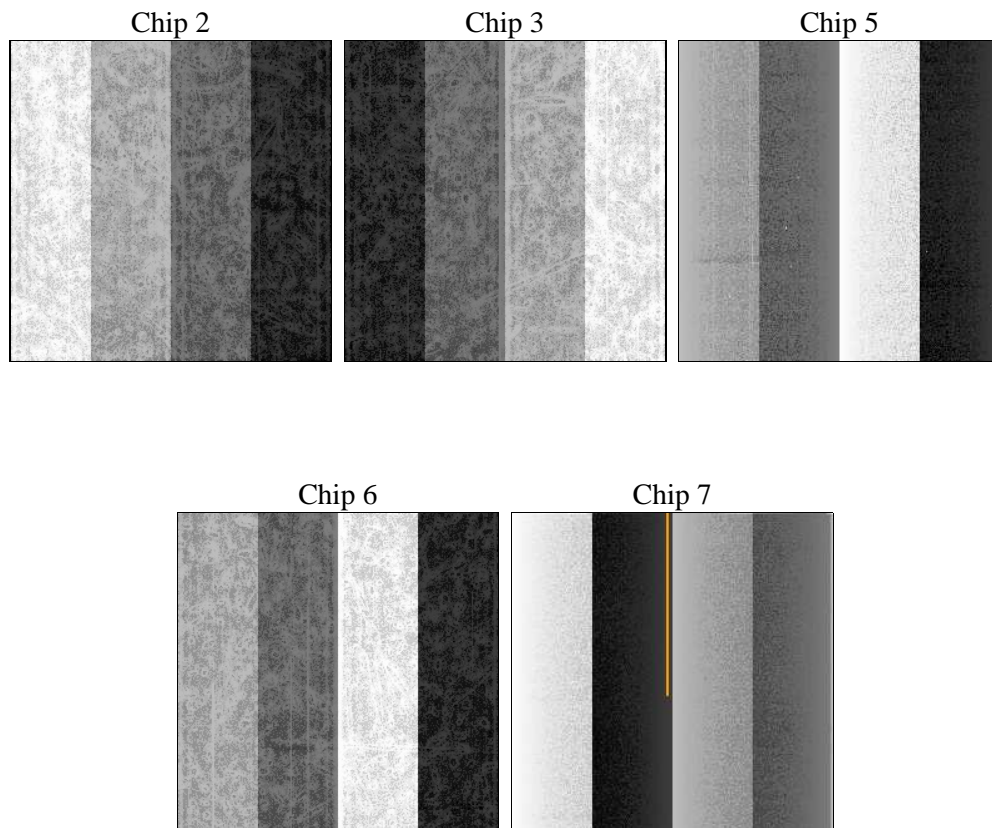
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18111.063000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	18141.200139642	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	18138.059049368	Sum of GTIs [s]
date	2016-09-13T22:25:55	Date and time of file creation	ontime3	18141.200139642	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	18141.200139642	Sum of GTIs [s]
			ontime6	18141.200139642	Sum of GTIs [s]
			ontime7	18141.200139642	Sum of GTIs [s]
			l1events	731450	Number of level 1 events

2.1.4 Events

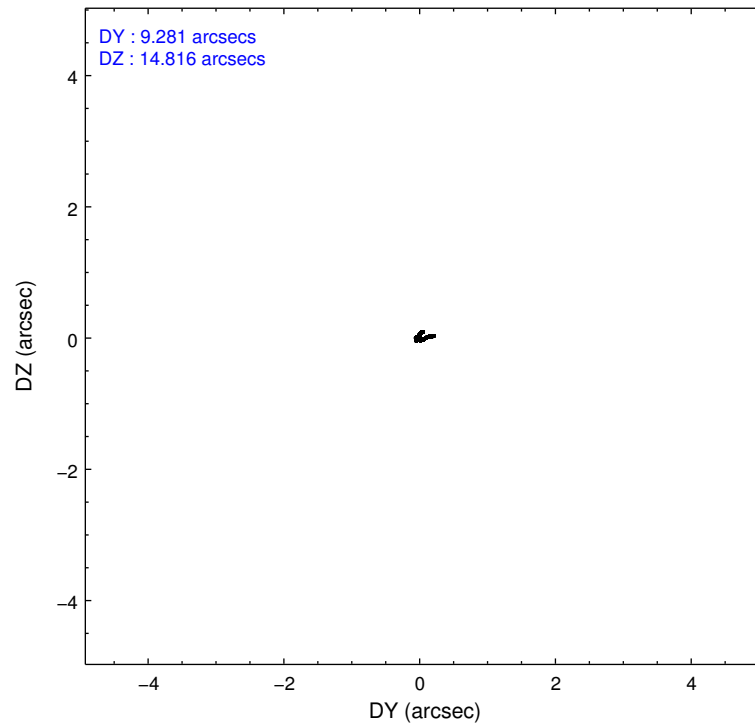
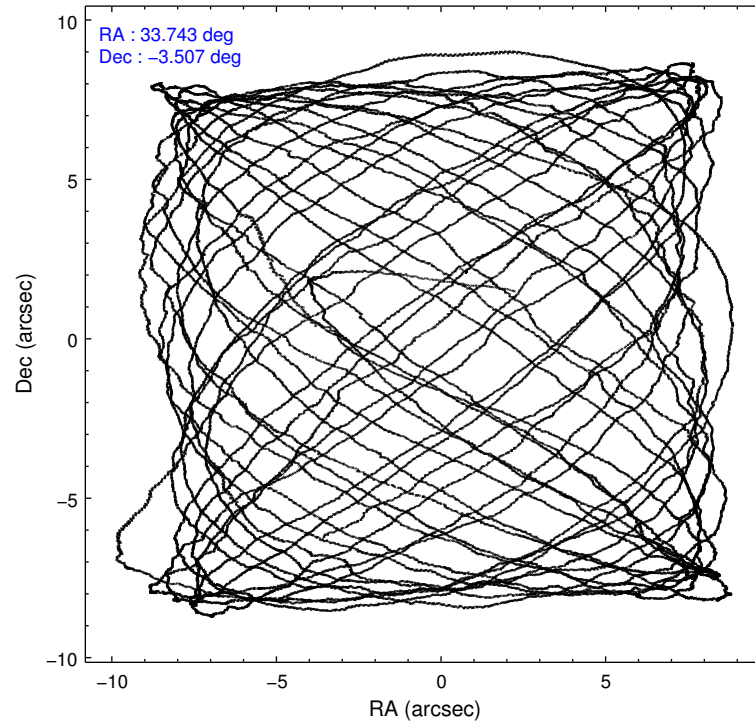
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	122981	118621	210240	124361	155247
rejected events	111178	106639	106822	111005	89746
rejected %	90%	89%	50%	89%	57%

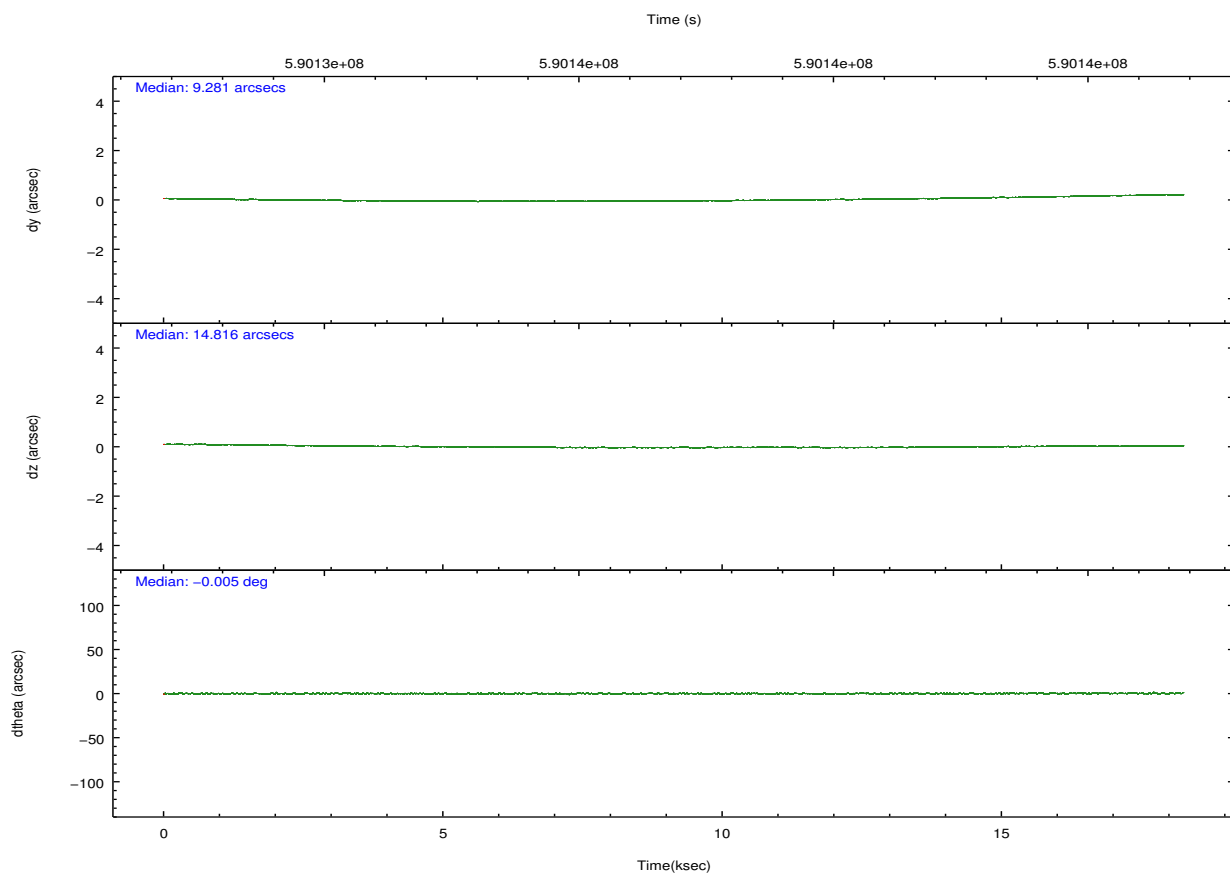
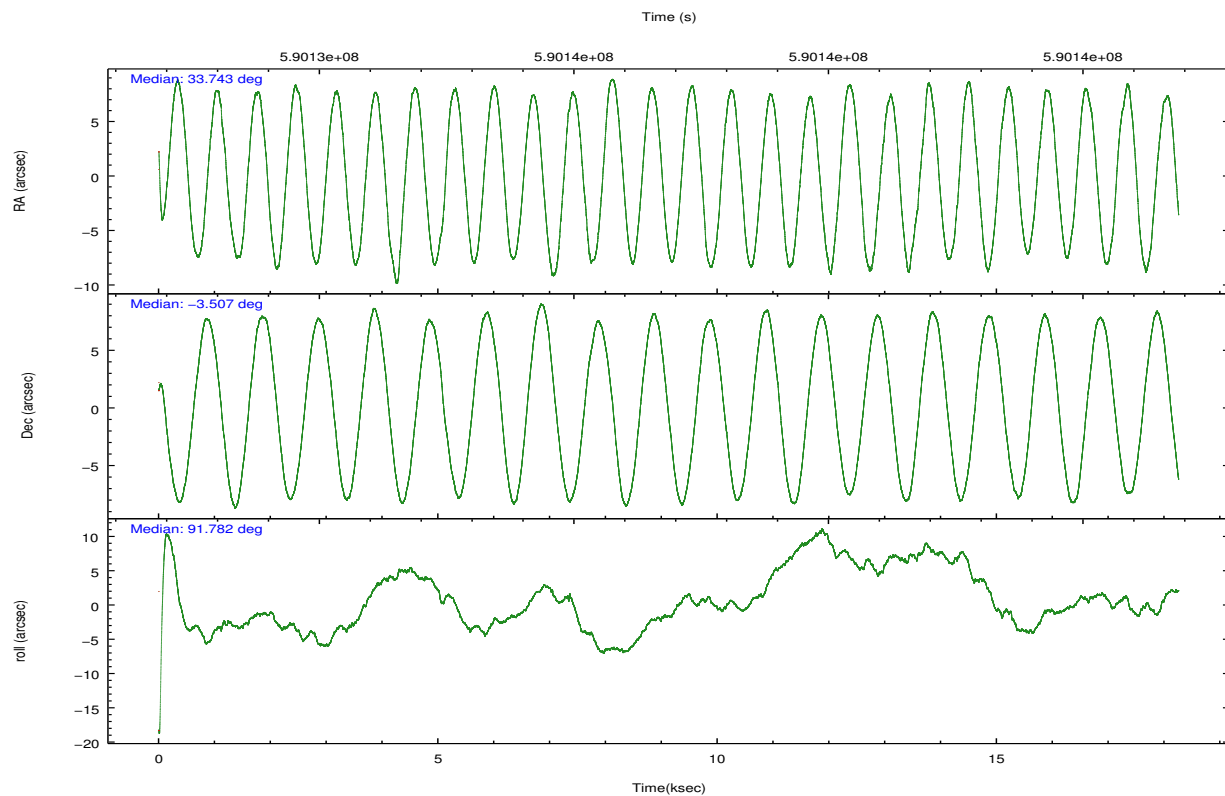
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	4210	4169	17564	3903	5043
	3%	3%	8%	3%	3%
grade 1 events	73	58	453	74	175
	0%	0%	0%	0%	0%
grade 2 events	2634	2578	29238	3459	13989
	2%	2%	13%	2%	9%
grade 3 events	1213	1286	2688	1216	4641
	0%	1%	1%	0%	2%
grade 4 events	1295	1269	2455	1173	4643
	1%	1%	1%	0%	2%
grade 5 events	4487	5489	12203	5358	14465
	3%	4%	5%	4%	9%
grade 6 events	2452	2683	51494	3611	37193
	1%	2%	24%	2%	23%
grade 7 events	106617	101089	94145	105567	75098
	86%	85%	44%	84%	48%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	33.757916	33.74313925950484	Subarray requested	NONE	NONE
[deg] Pointing Dec	-3.529684	-3.506553971539626	Alternating exposures requested	N	N
[deg] Pointing Roll	91.626654	91.78235055327158	[s] Primary exposure time	0.000000	3.1
[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)	590127896.184000	590126898.26588			
Observation start date	2016-09-13T04:23:48	2016-09-13T04:08:18			
[s] Observation end time (MET)	590146007.184000	590146226.69199			
Observation end date	2016-09-13T09:25:39	2016-09-13T09:30:26			
Read mode	TIMED	TIMED			

2.3 Aspect



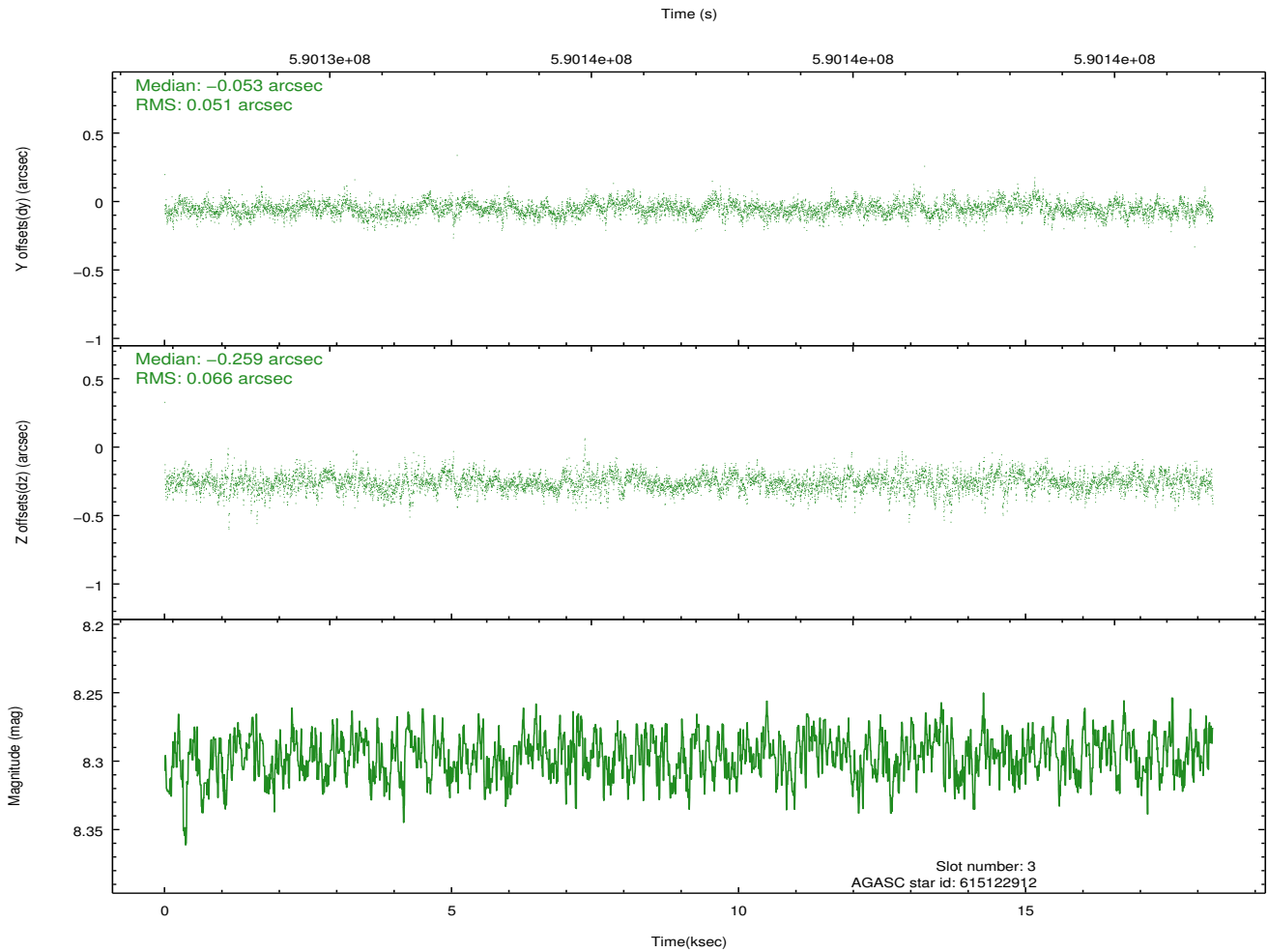
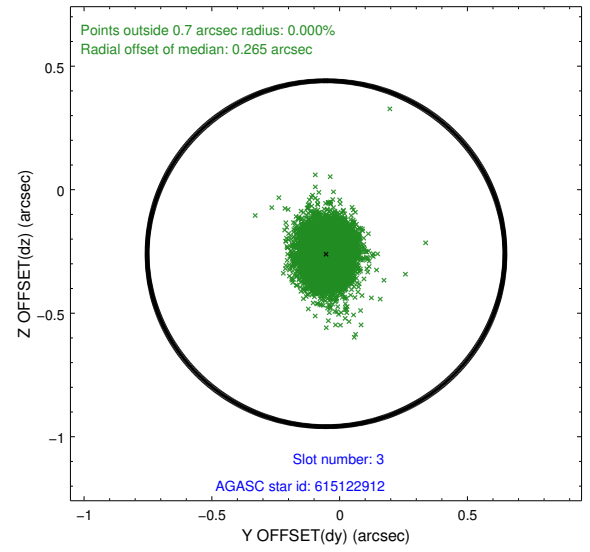
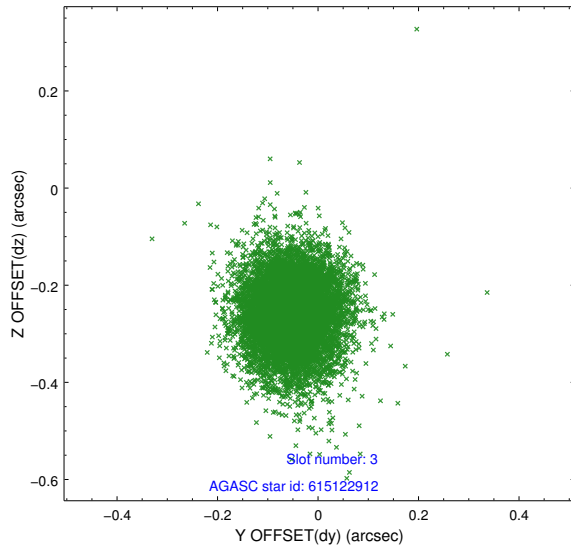


Slot Statistics

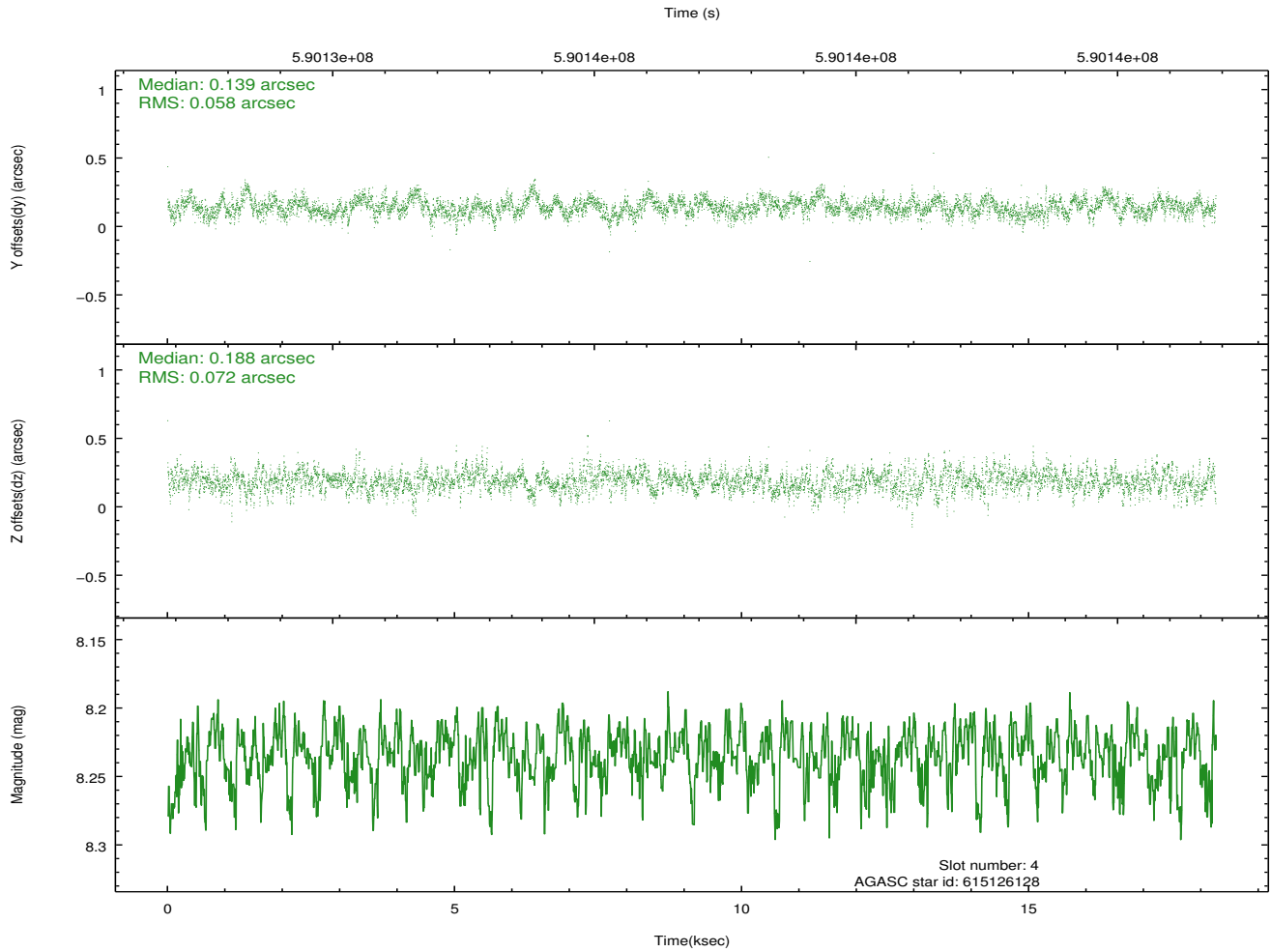
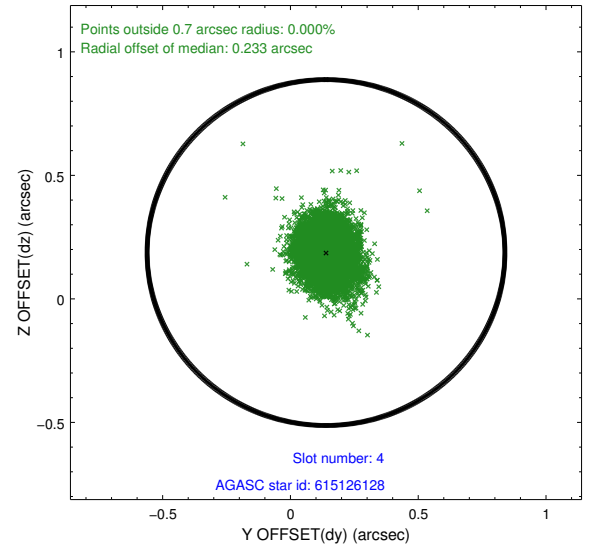
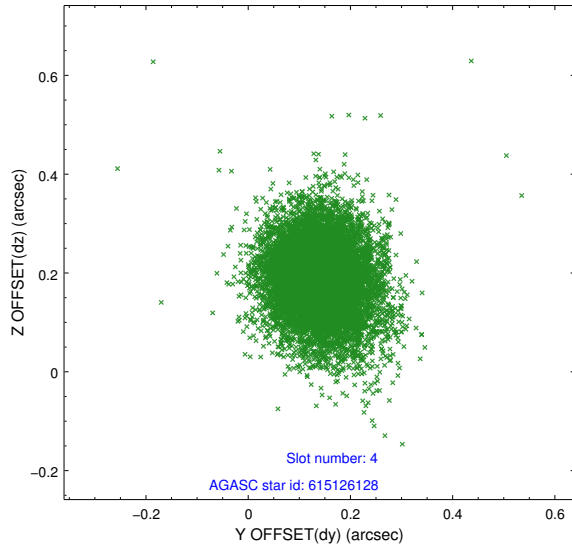
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.16	4454	-0.154	-0.075	0.007	0.012	0.000000	0.000000	-762.24	-1736.28
1	FID		ACIS-S-4	7.27	4454	0.398	0.094	0.007	0.013	0.000000	0.000000	2151.46	172.19
2	FID		ACIS-S-5	7.27	4454	-0.275	-0.011	0.008	0.014	0.000000	0.000000	-1814.95	165.94
3	GUIDE	used	615122912	8.30	8905	-0.053	-0.259	0.086	0.146	33.556538	-3.635204	-362.64	734.27
4	GUIDE	used	615126128	8.23	8902	0.139	0.188	0.096	0.159	34.026050	-3.868420	-1246.17	-927.73
5	GUIDE	used	615127624	7.57	8901	-0.407	-0.311	0.102	0.174	33.425940	-3.032022	1823.94	1141.53
6	GUIDE	used	615129992	8.38	8901	0.222	0.256	0.107	0.173	33.989595	-4.095121	-2058.58	-776.11
7	GUIDE	used	615121360	9.64	8896	0.094	0.130	0.180	0.302	34.206276	-2.936187	2089.91	-1672.68

2.4 Star Slots

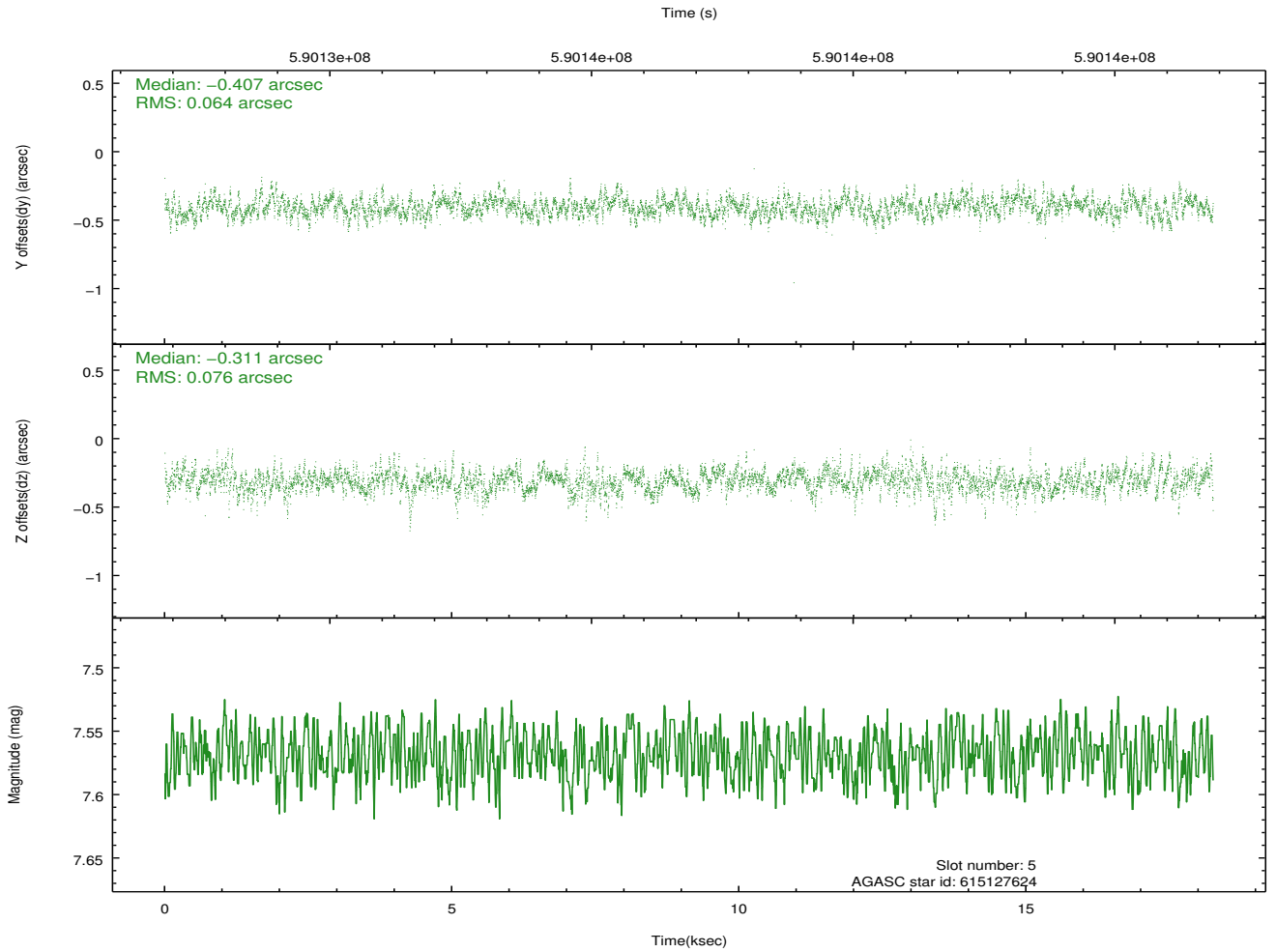
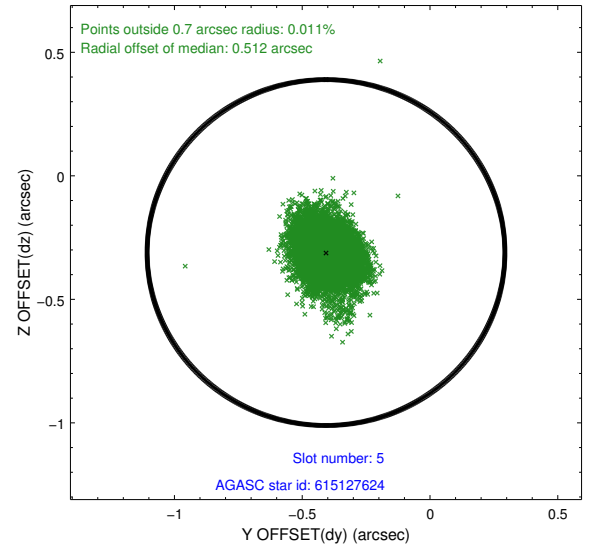
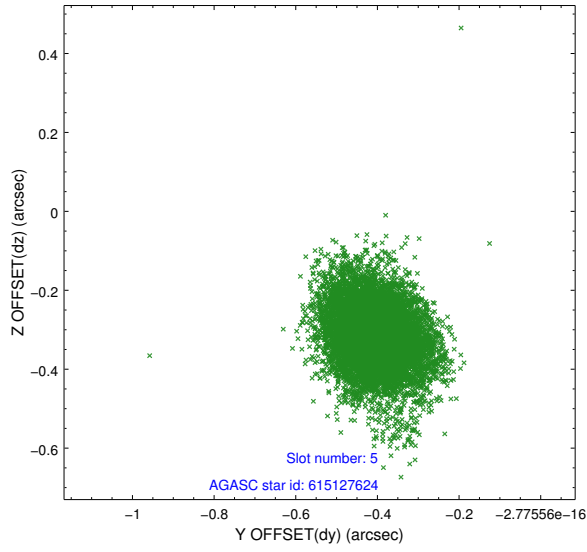
2.4.1 Slot 3



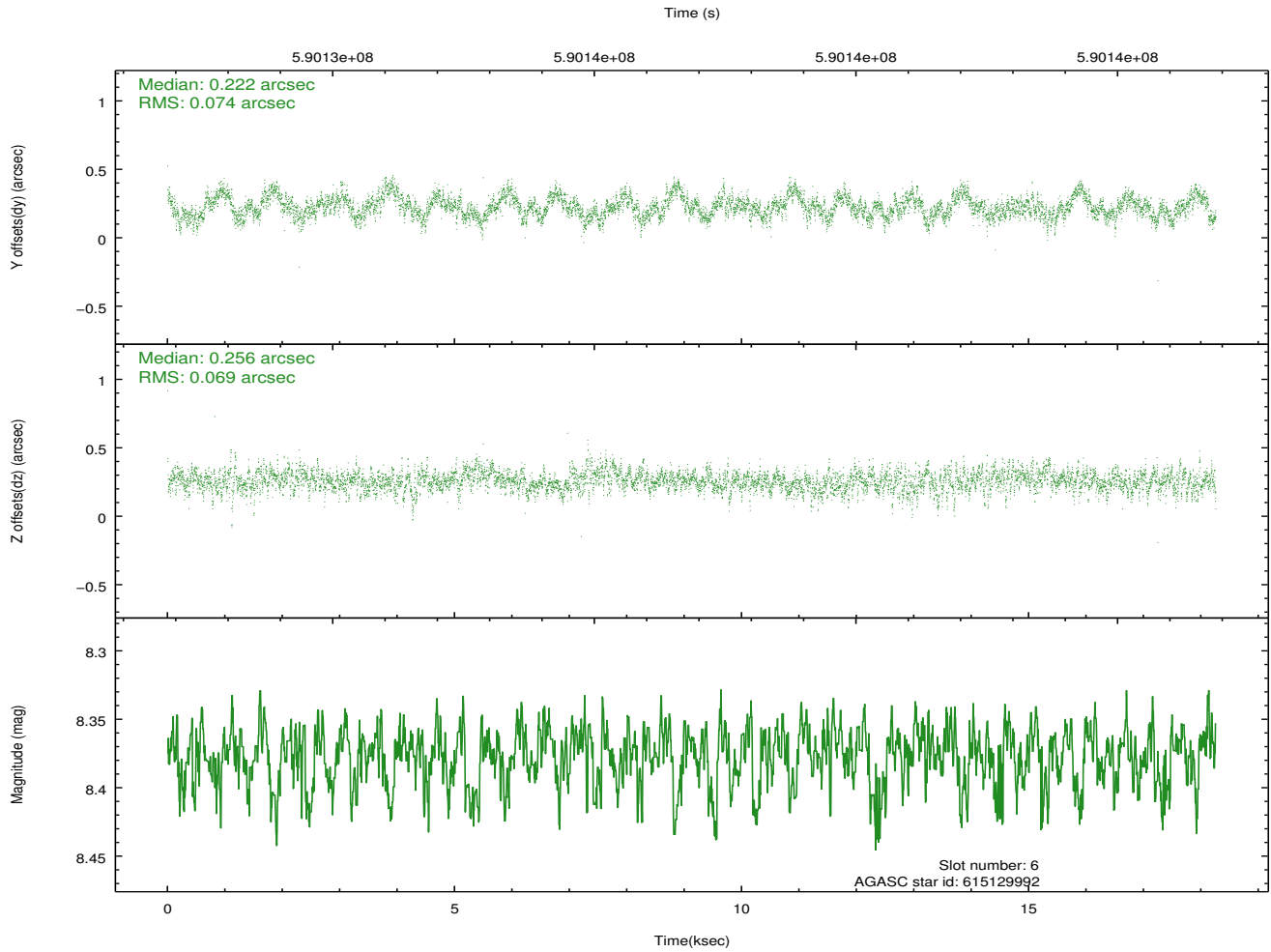
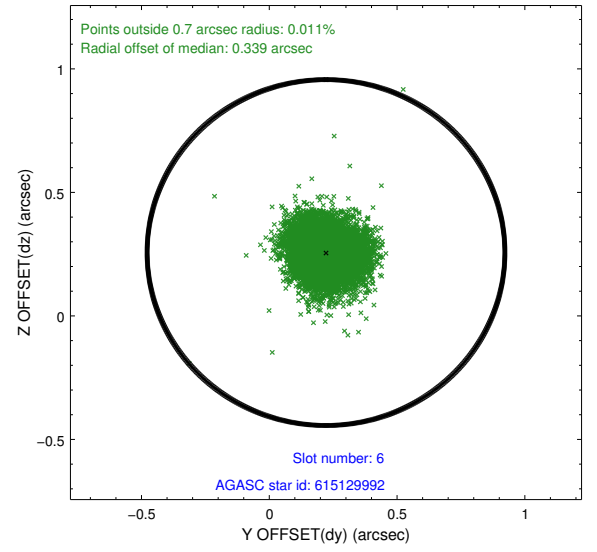
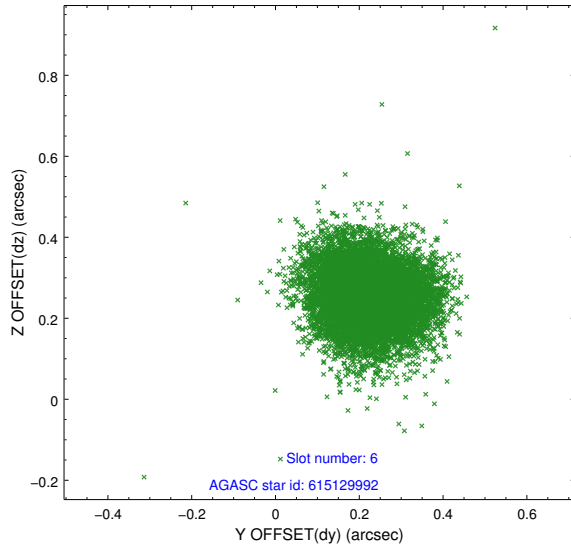
2.4.2 Slot 4



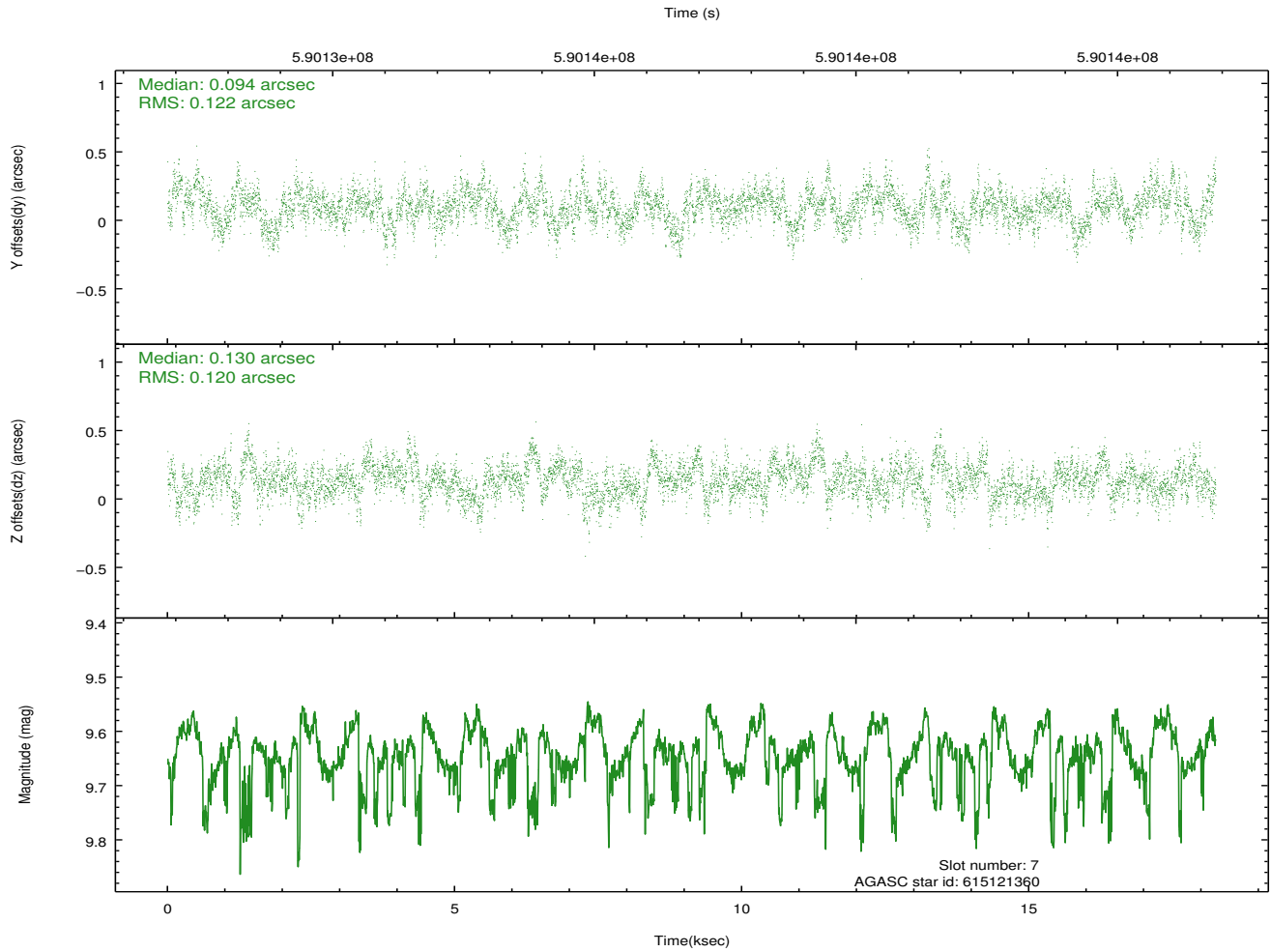
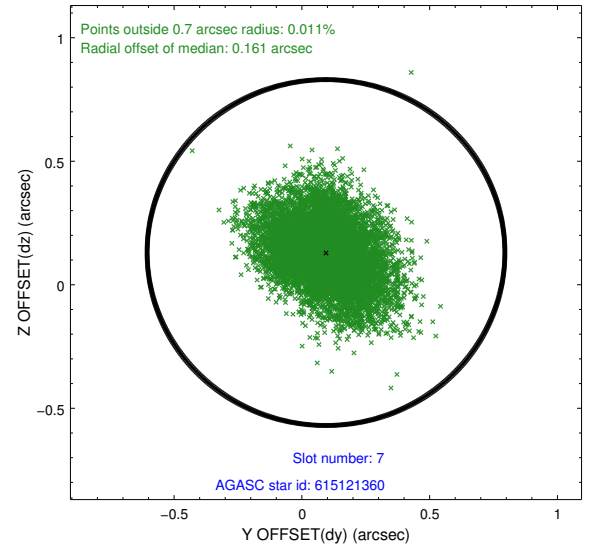
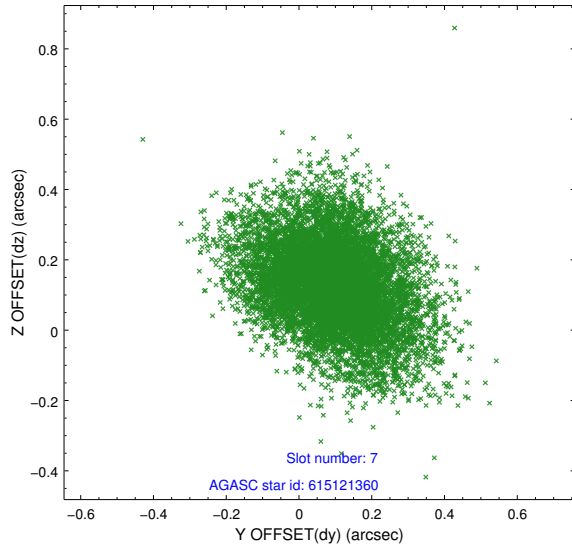
2.4.3 Slot 5



2.4.4 Slot 6

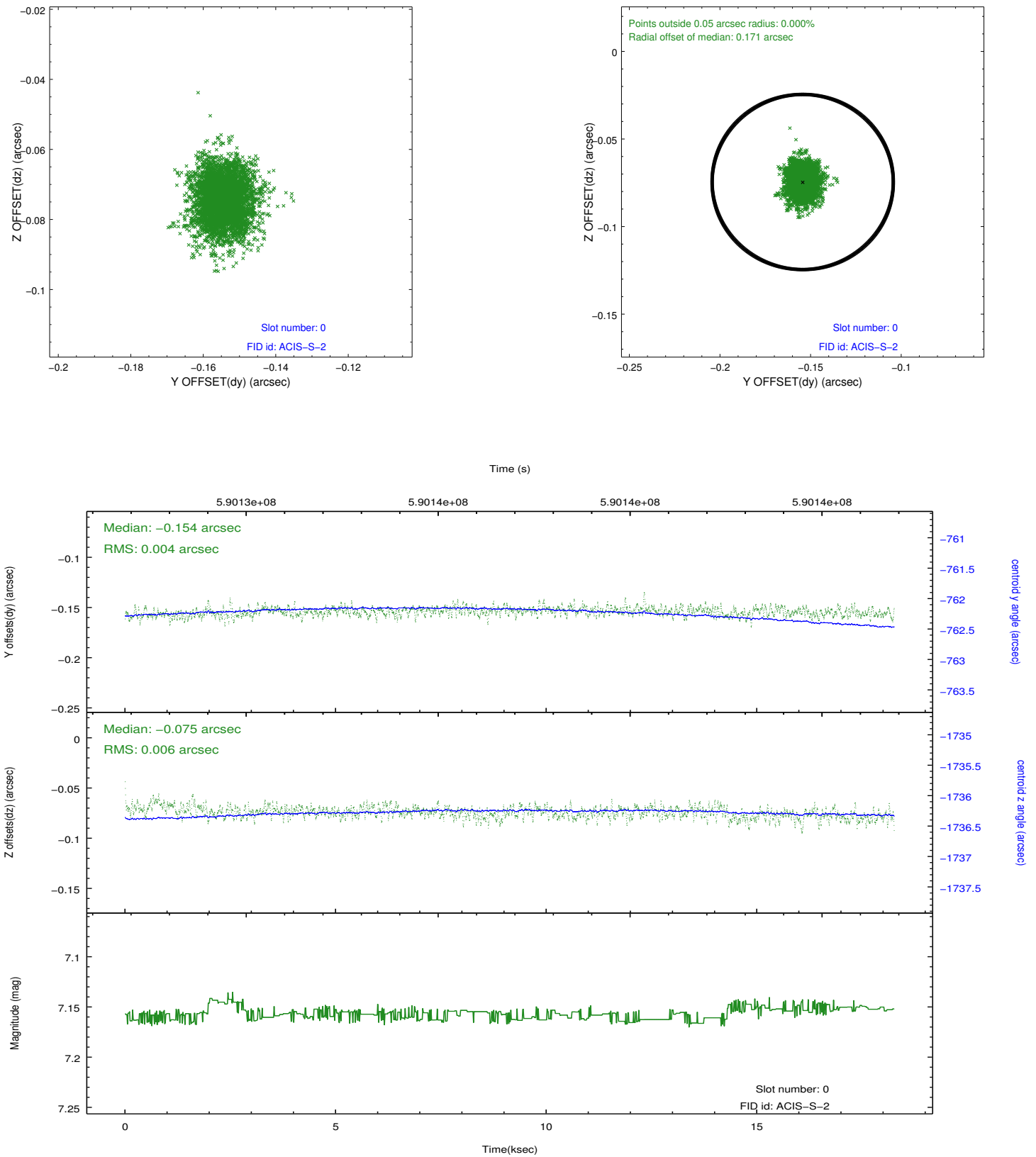


2.4.5 Slot 7

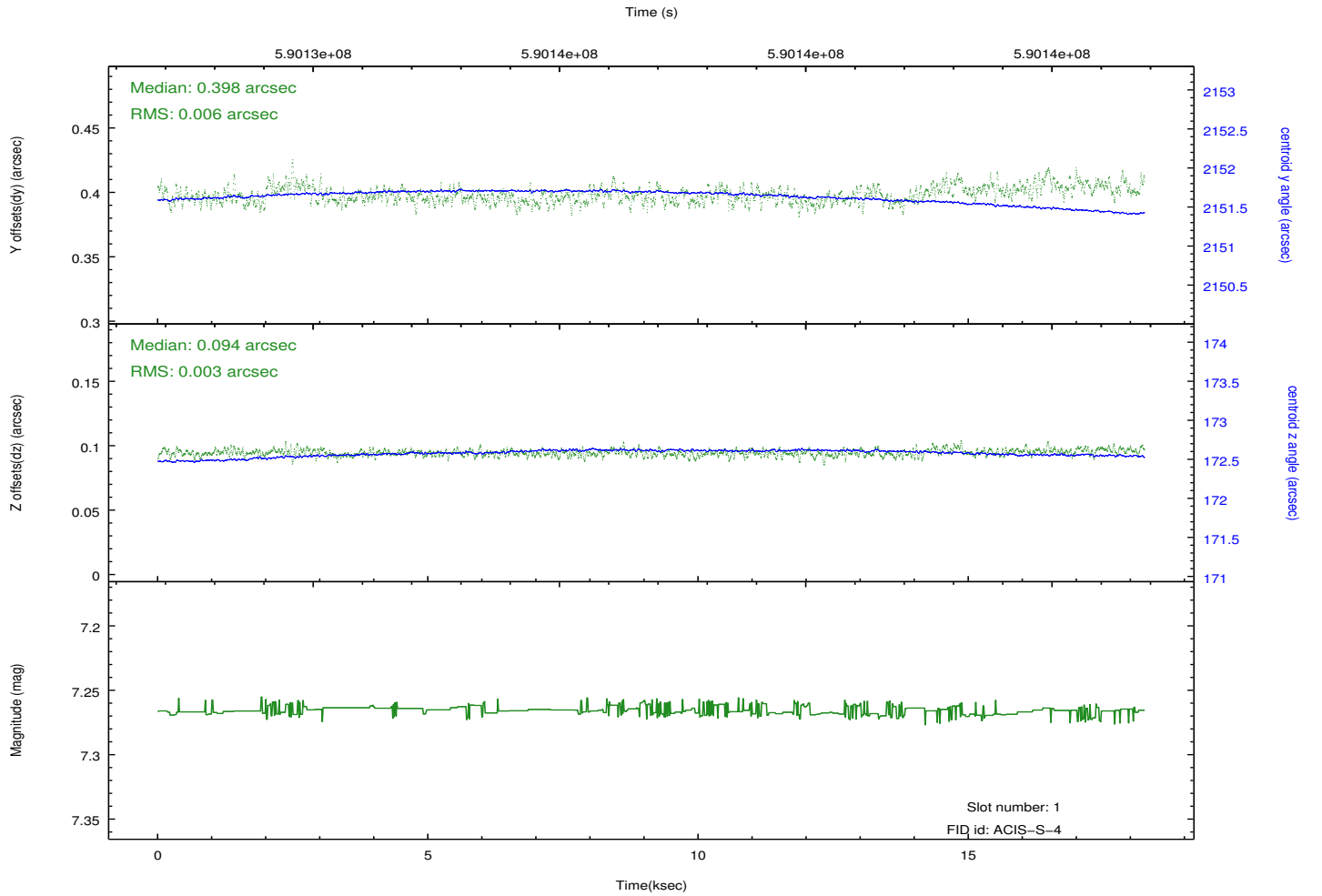
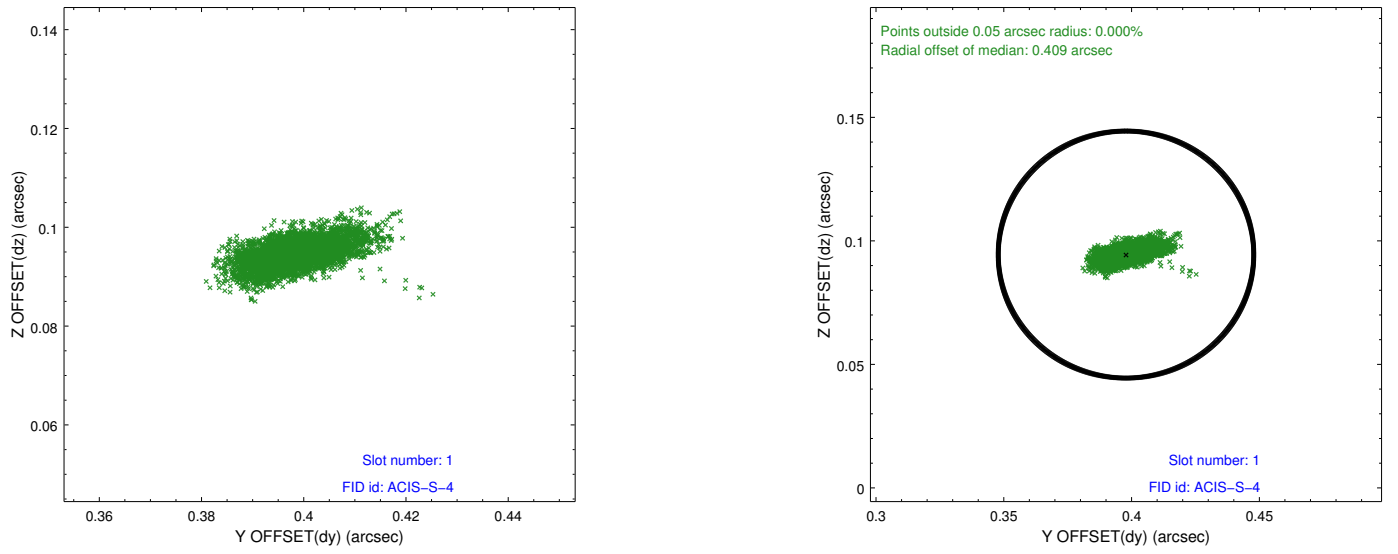


2.5 FID Slots

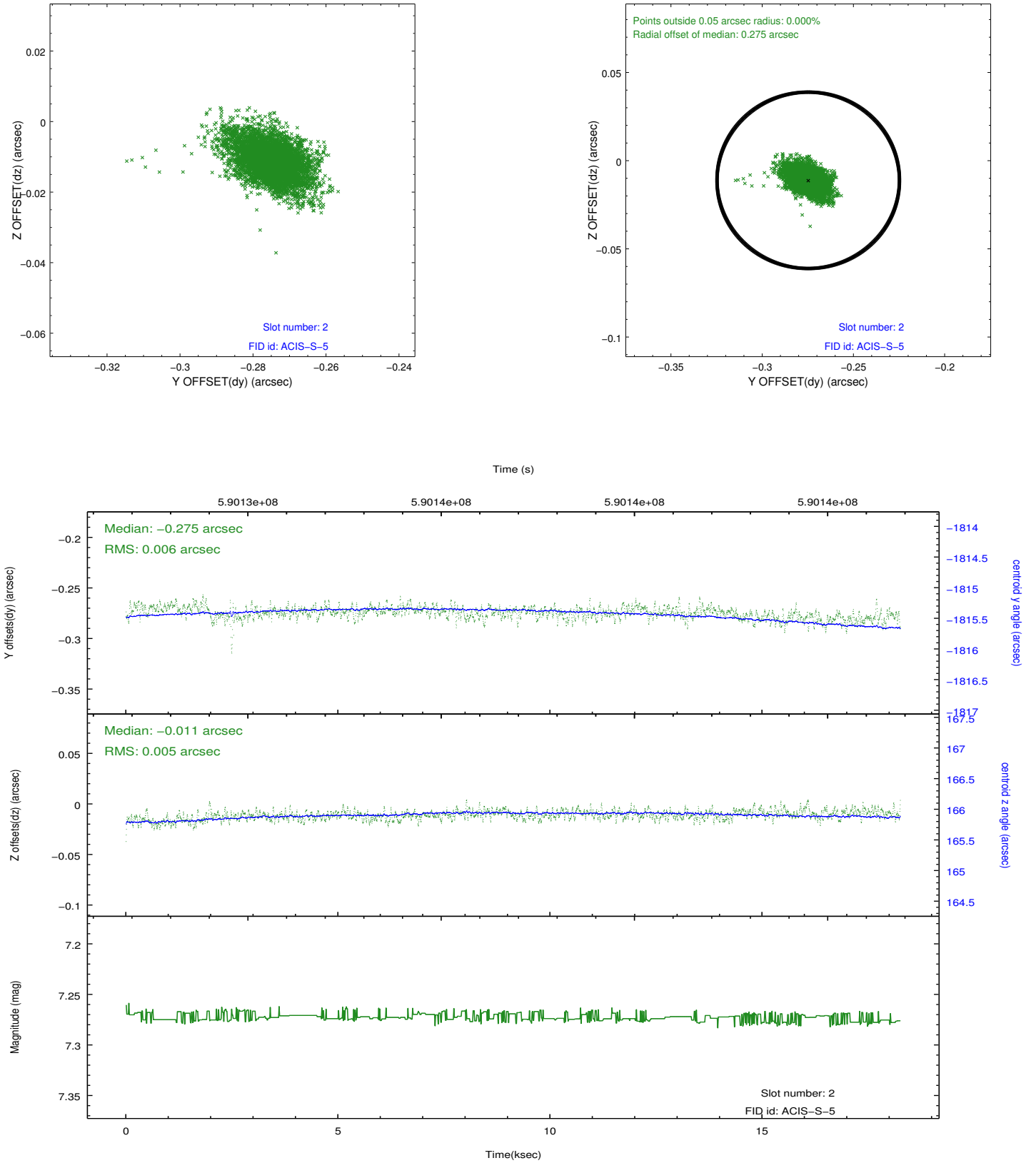
2.5.1 Slot 0



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)	2016.09.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.141200139642

A.2 Comments