

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18132 - L2 Version 2
Chandra X-Ray Center

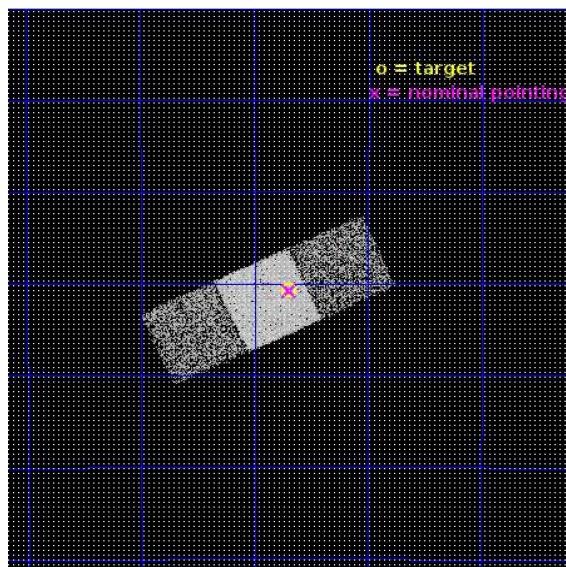
L2 Processing Date : Jun 27 2016

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 6	11
2.4.4	Slot 7	12
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

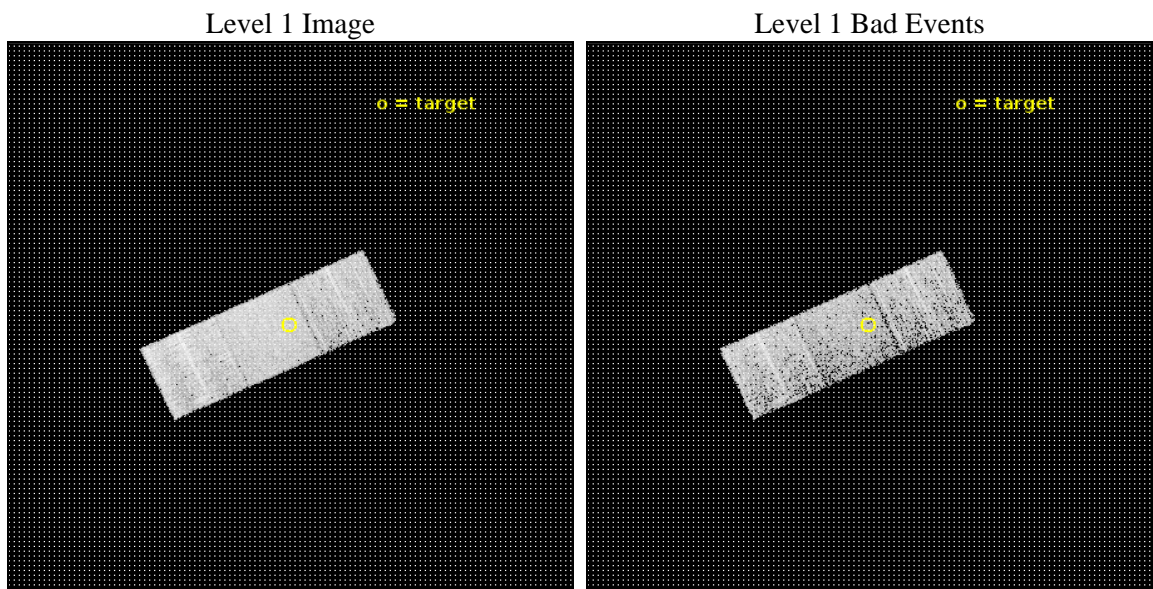
seq_num	703198	Sequence number
obs_id	18132	Observation id
title	X-RAYING FORNAX	Proposal title
observer	Elena Gallo	Principal investigator
object	fcc249	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	55.175417	Observer's specified target RA [deg]
dec_targ	-37.510833	Observer's specified target Dec [deg]
ra_nom	55.173075148641	Nominal RA [deg]
dec_nom	-37.51270799919	Nominal Dec [deg]
roll_nom	155.15516564358	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4904.200037837	Sum of GTIs [s]
livetime	4840.1230539231	Livetime [s]
ontime6	4904.200037837	Sum of GTIs [s]
ontime7	4904.200037837	Sum of GTIs [s]
ontime8	4904.200037837	Sum of GTIs [s]
l2events	23547	Number of level 2 events



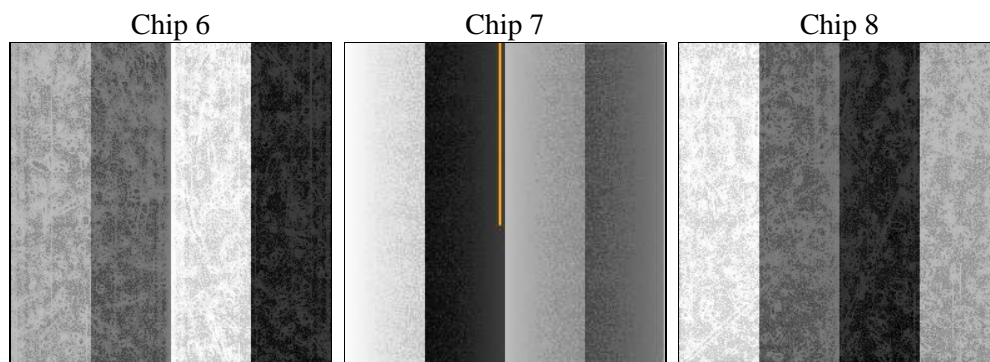
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4800.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	4904.200037837	Sum of GTIs [s]
caldsver	4.7.2	 	ontime6	4904.200037837	Sum of GTIs [s]
date	2016-06-27T14:12:33	Date and time of file creation	ontime7	4904.200037837	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	4904.200037837	Sum of GTIs [s]
			l1events	112175	Number of level 1 events

2.1.4 Events

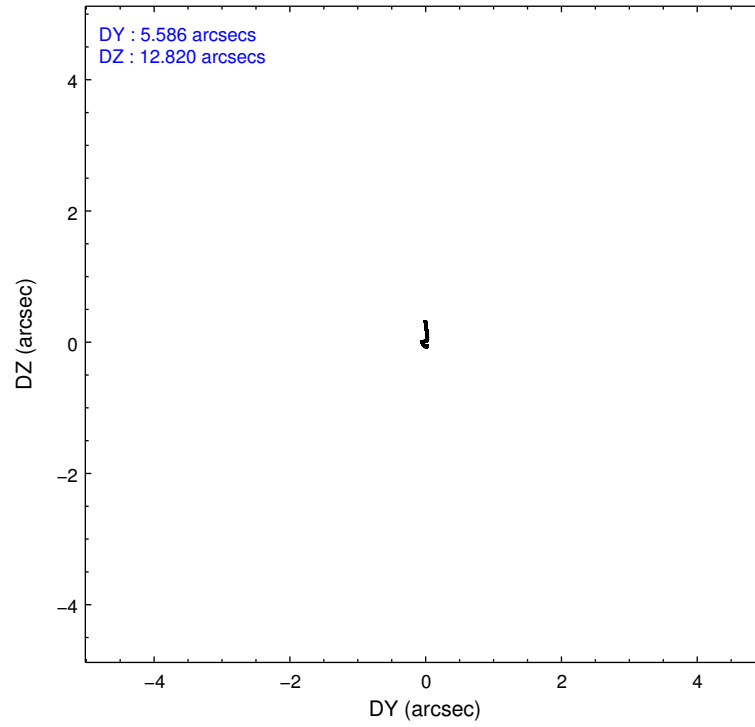
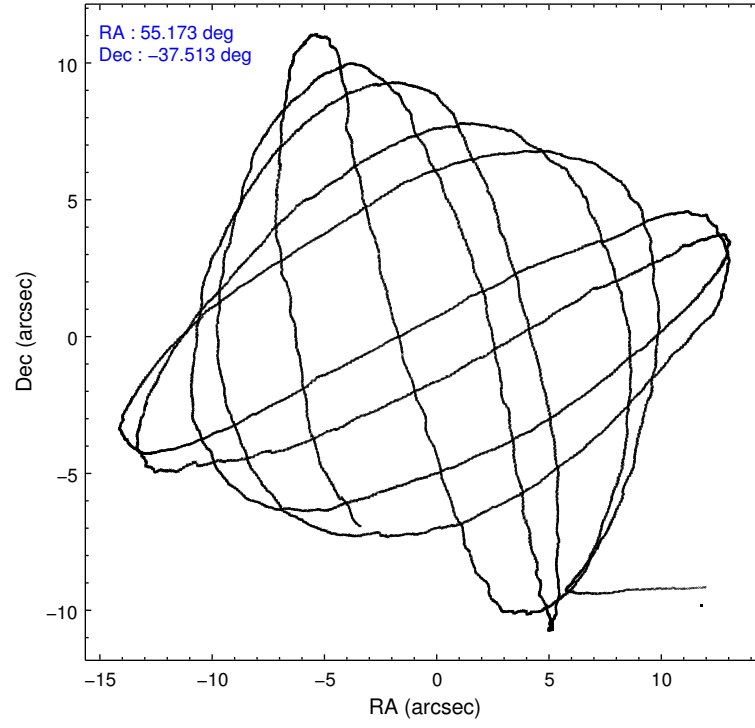
	ccd 6	ccd 7	ccd 8
level 1 events	31135	39377	41663
rejected events	27564	22128	30506
rejected %	88%	56%	73%

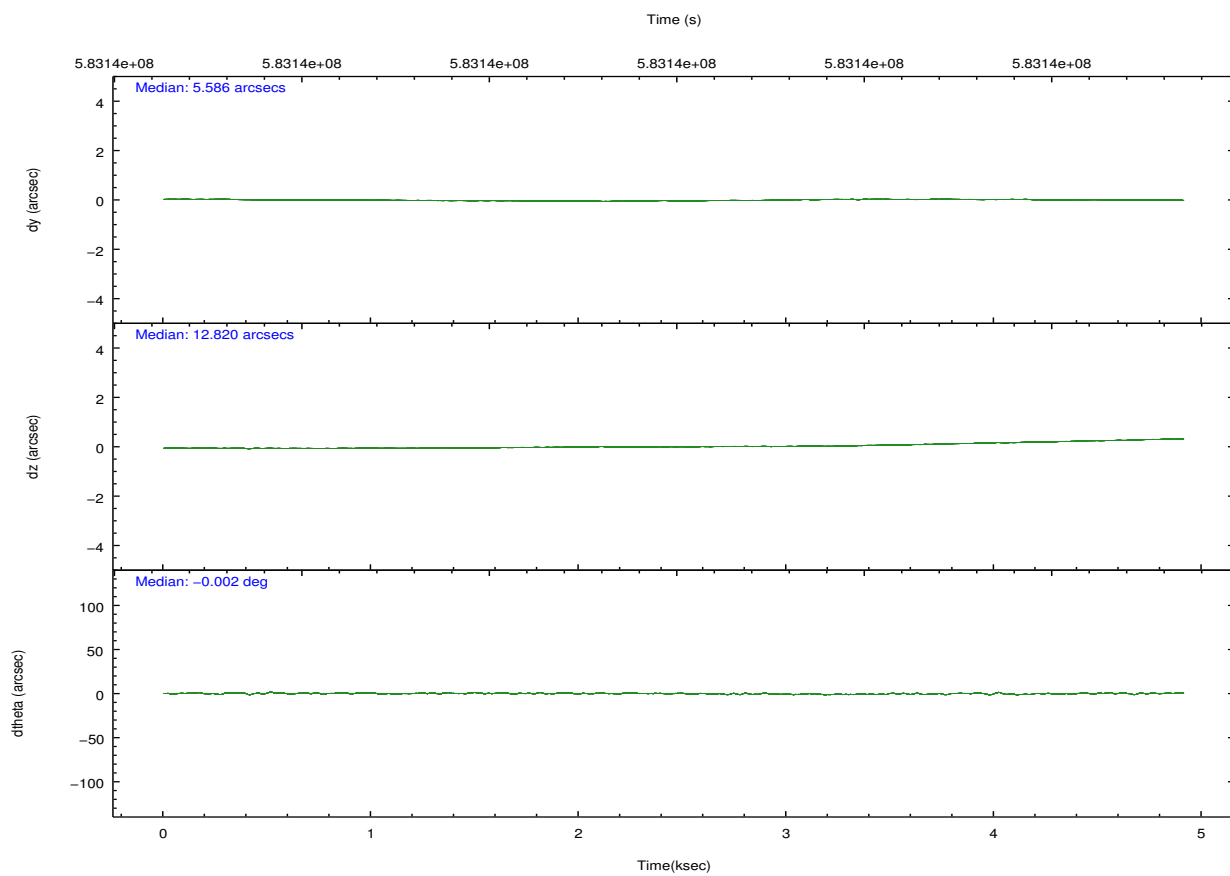
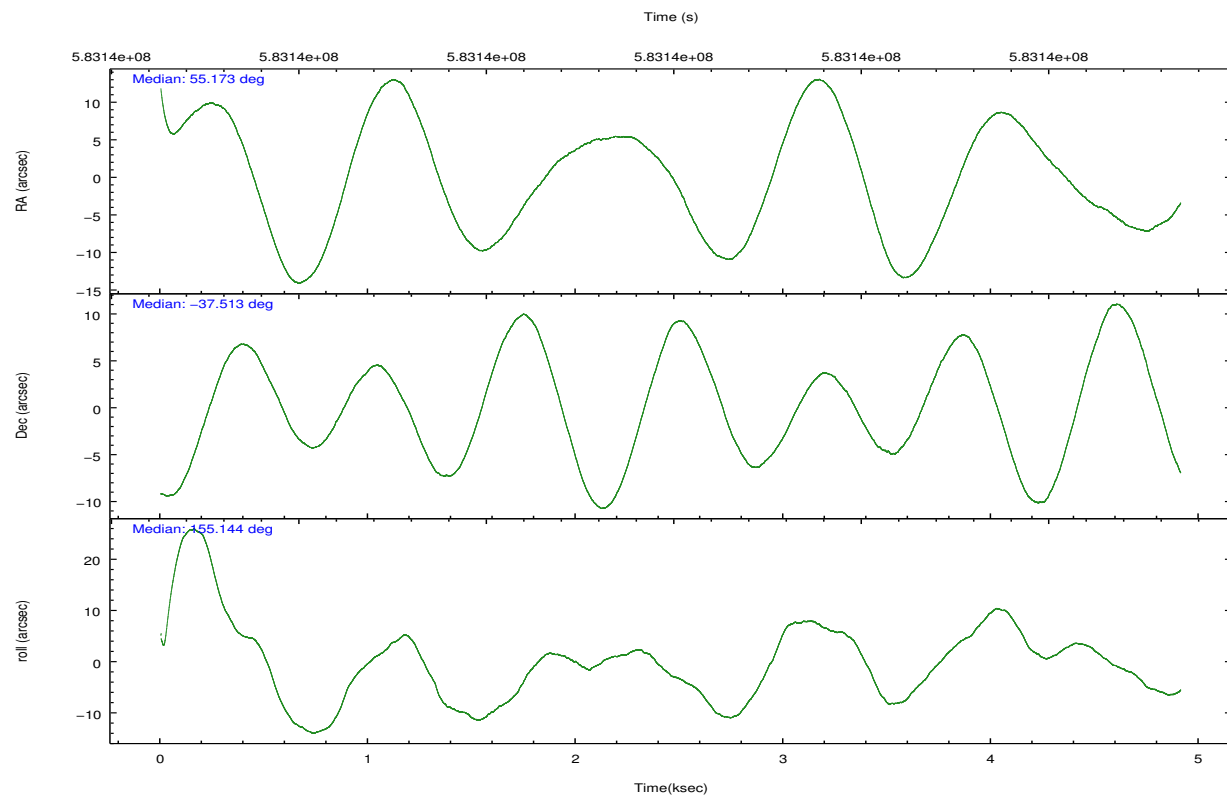
	ccd 6	ccd 7	ccd 8
grade 0 events	1198	1518	3143
	3%	3%	7%
grade 1 events	10	43	30
	0%	0%	0%
grade 2 events	803	3748	2825
	2%	9%	6%
grade 3 events	347	1376	1119
	1%	3%	2%
grade 4 events	339	1397	1065
	1%	3%	2%
grade 5 events	1491	3873	2290
	4%	9%	5%
grade 6 events	892	9244	3038
	2%	23%	7%
grade 7 events	26055	18178	28153
	83%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	55.207471	55.17307514864063	CCD I2 on	N	N
[deg] Pointing Dec	-37.509891	-37.51270799919045	CCD I3 on	N	N
[deg] Pointing Roll	155.019516	155.1551656435835	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	O2	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	O1	Y
[s] Observation start time (MET)	583139636.184000	583138303.33946	CCD S5 on	N	N
Observation start date	2016-06-24T07:12:48	2016-06-24T06:51:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	583144436.184000	583145744.32739	On-chip summing requested	N	N
Observation end date	2016-06-24T08:32:48	2016-06-24T08:55:44	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



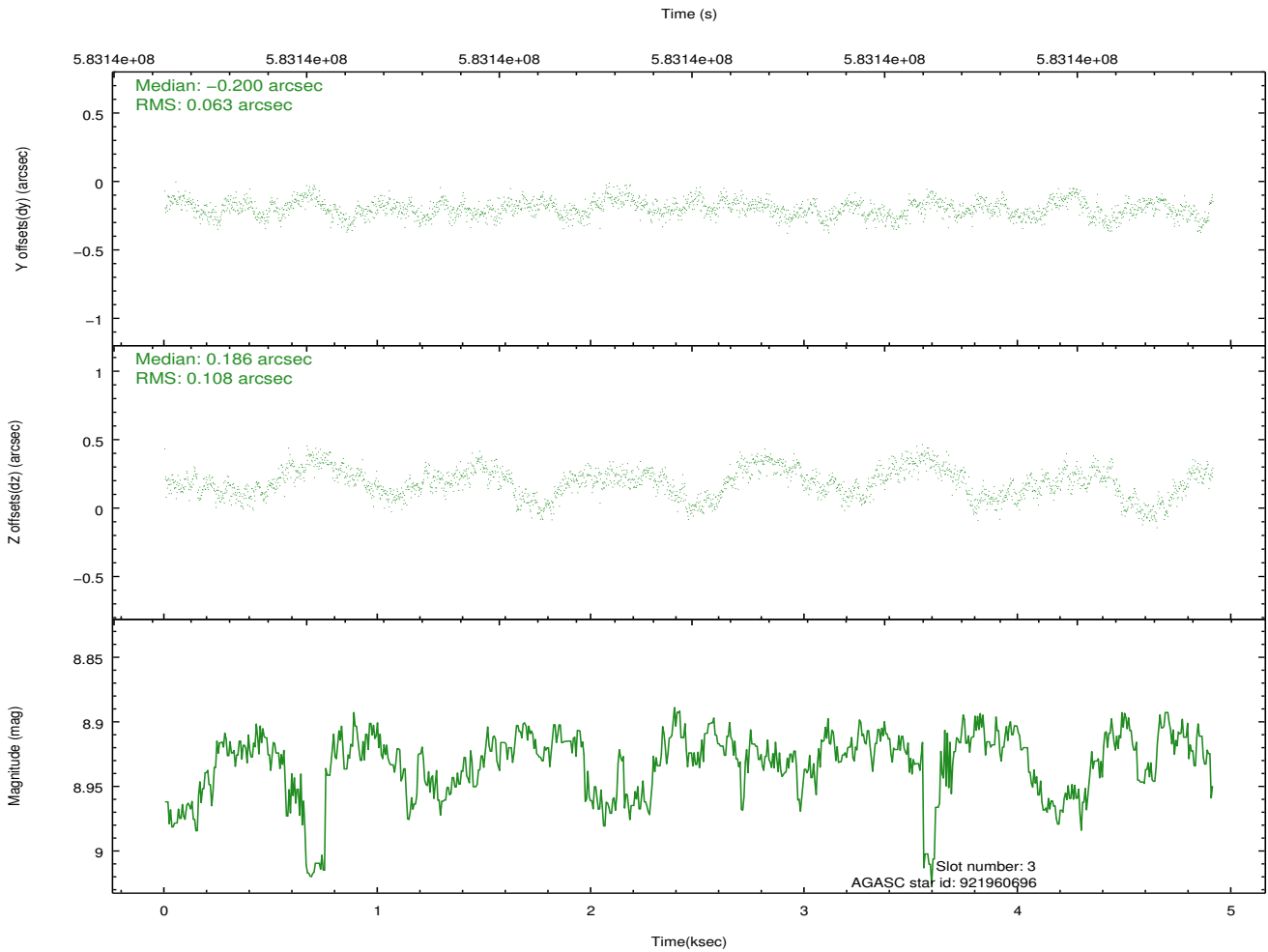
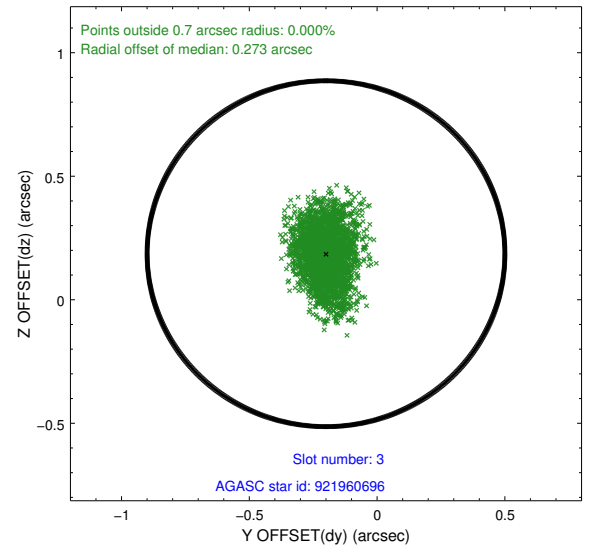
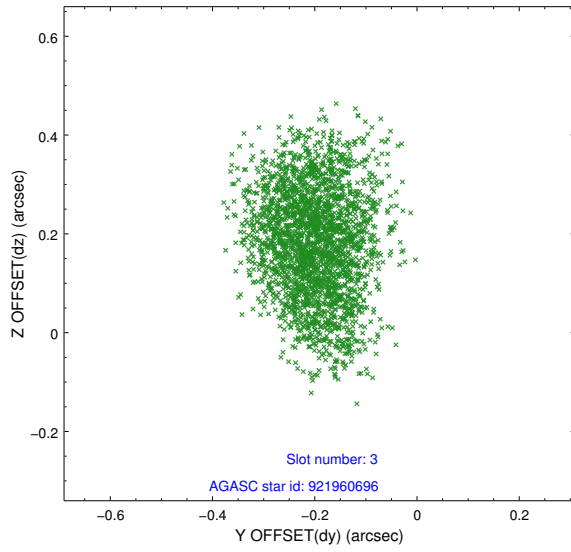


Slot Statistics

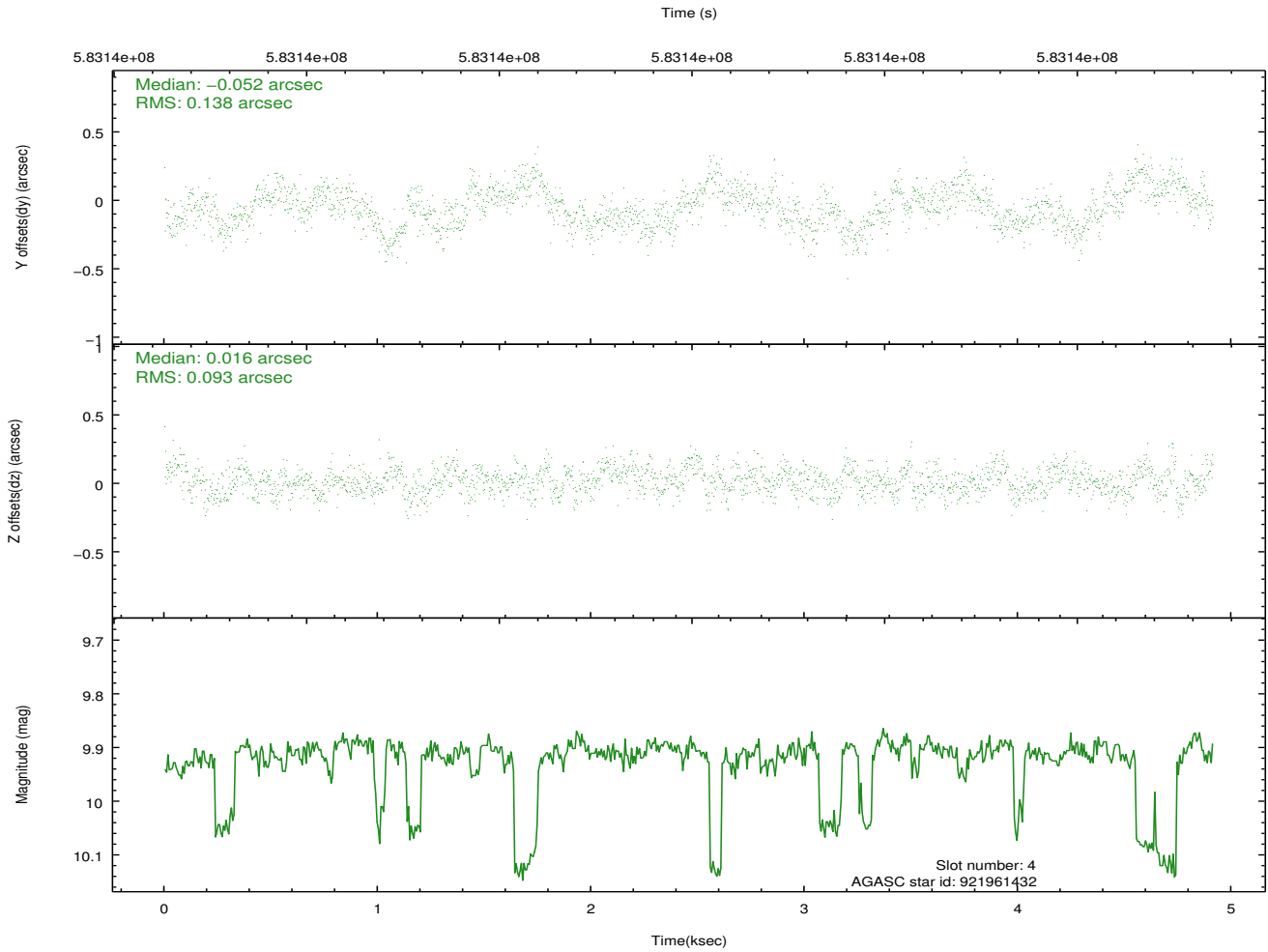
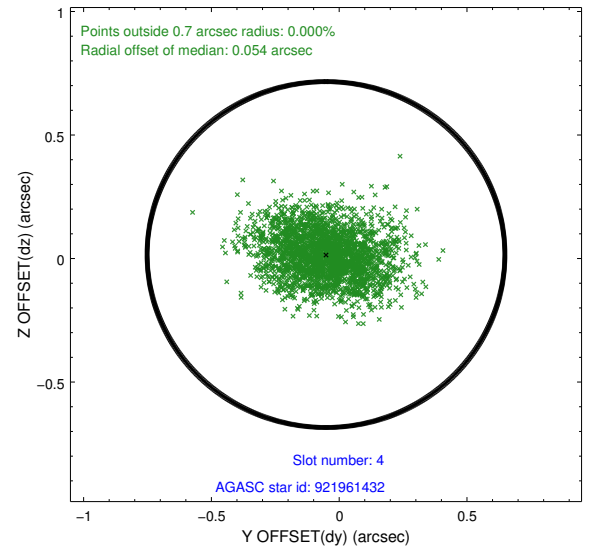
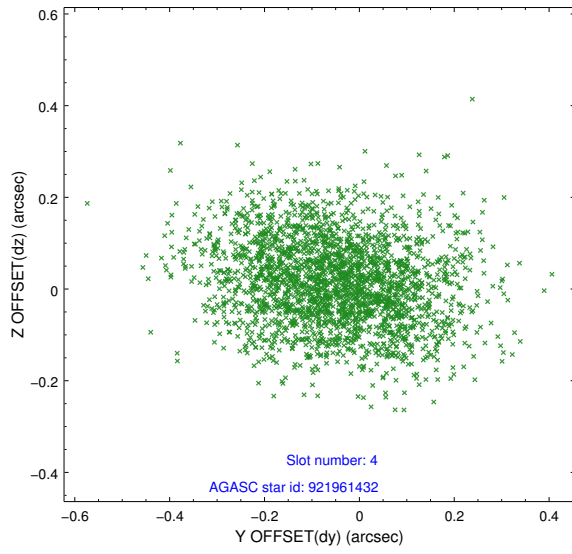
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	1198	-0.012	-0.063	0.006	0.011	0.000000	0.000000	-758.37	-1734.21
1	FID		ACIS-S-5	7.25	1198	-0.121	0.002	0.007	0.012	0.000000	0.000000	-1812.08	166.58
2	FID		ACIS-S-6	7.37	1198	0.108	0.069	0.006	0.010	0.000000	0.000000	402.11	811.88
3	GUIDE	used	921960696	8.93	2394	-0.200	0.186	0.133	0.219	55.458904	-36.924313	234.67	-2215.31
4	GUIDE	used	921961432	9.91	2391	-0.052	0.016	0.175	0.288	54.525894	-37.218107	2209.51	-123.93
5	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	GUIDE	used	992084520	10.12	2396	0.189	0.046	0.268	0.406	55.983116	-37.601534	-2146.66	-626.80
7	GUIDE	used	992087912	10.11	2392	0.065	-0.255	0.174	0.291	55.588688	-38.111654	-1895.31	1508.79

2.4 Star Slots

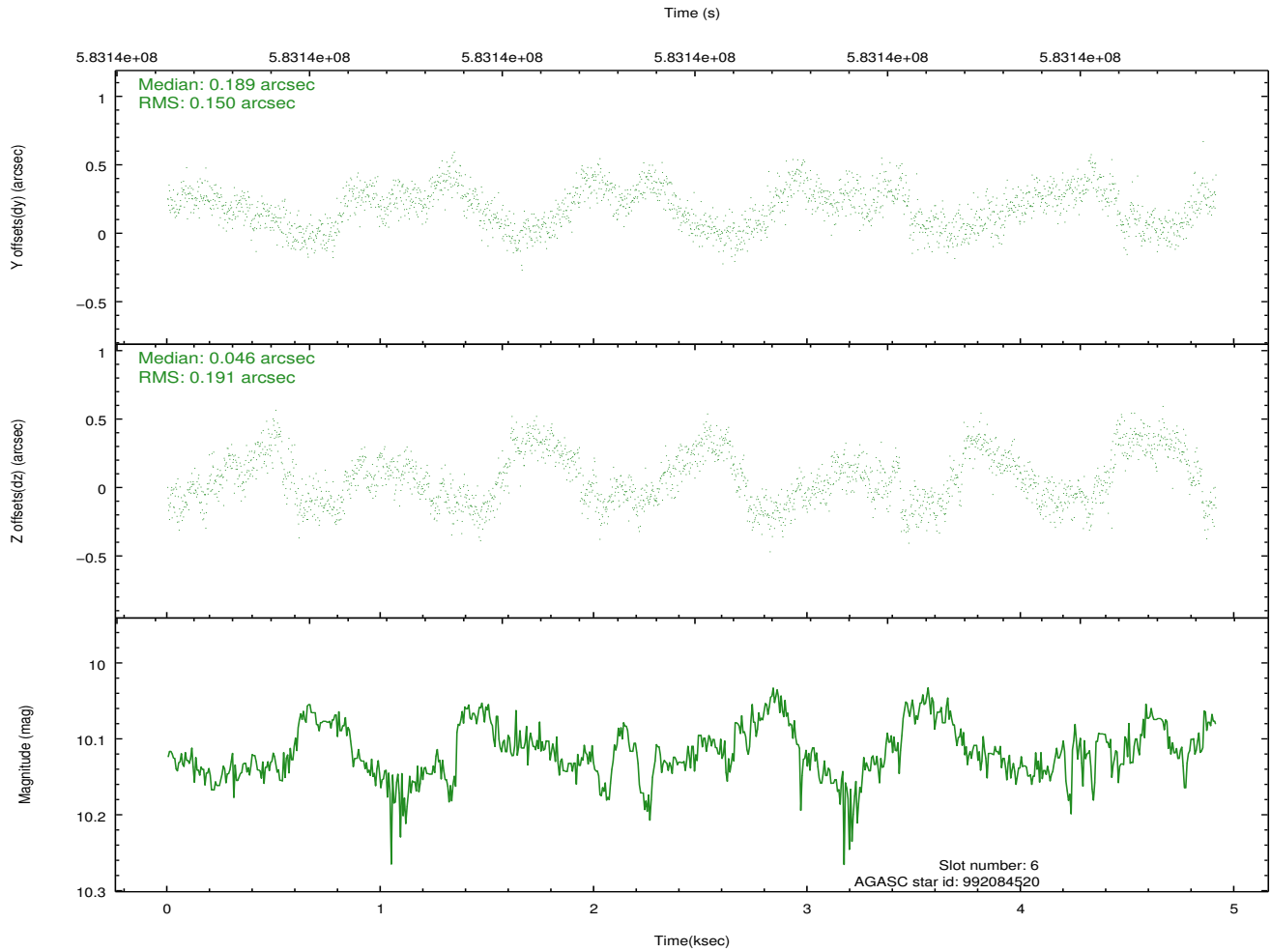
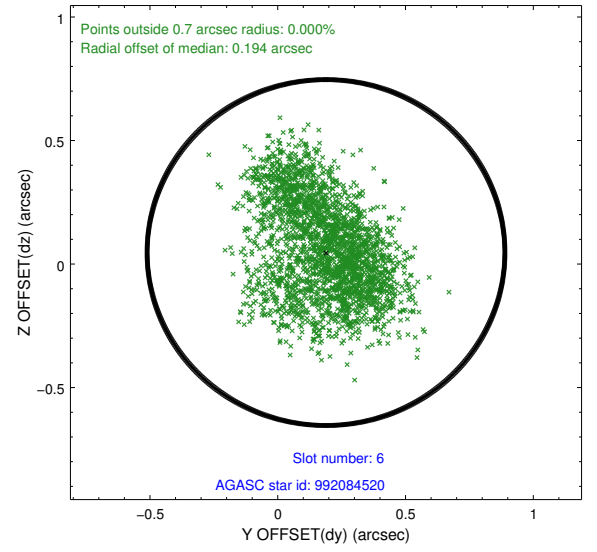
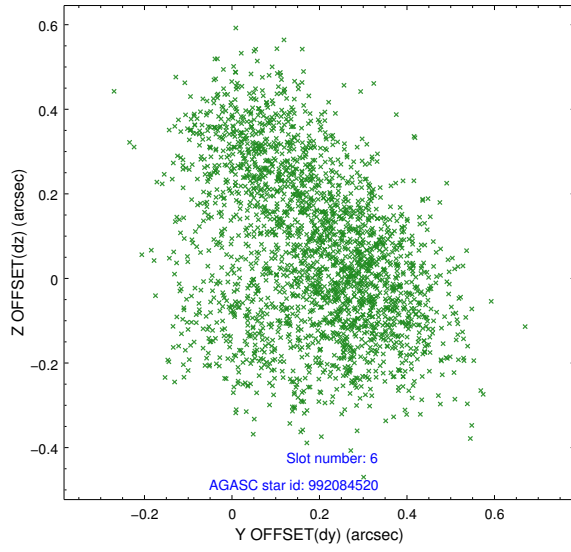
2.4.1 Slot 3



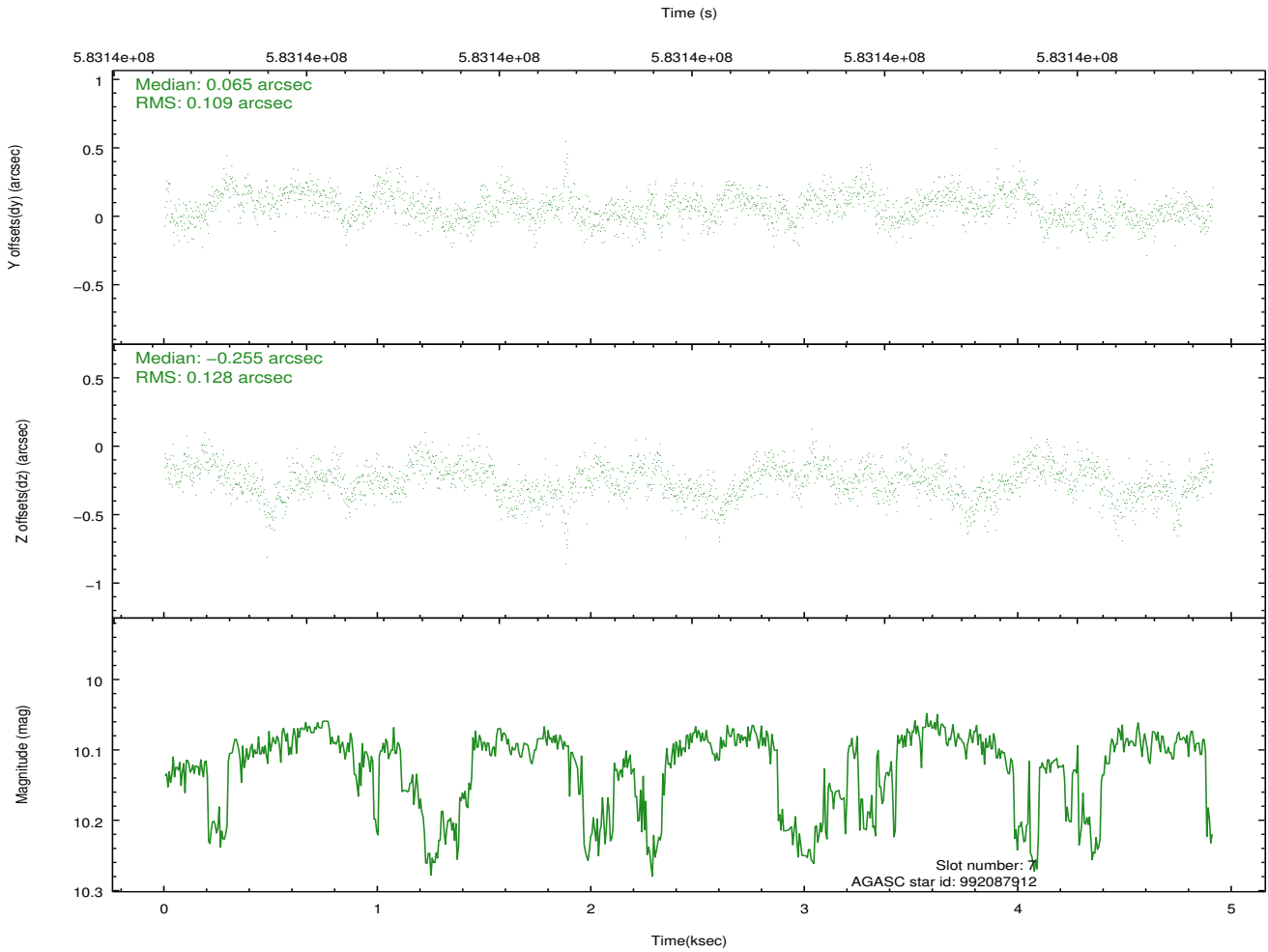
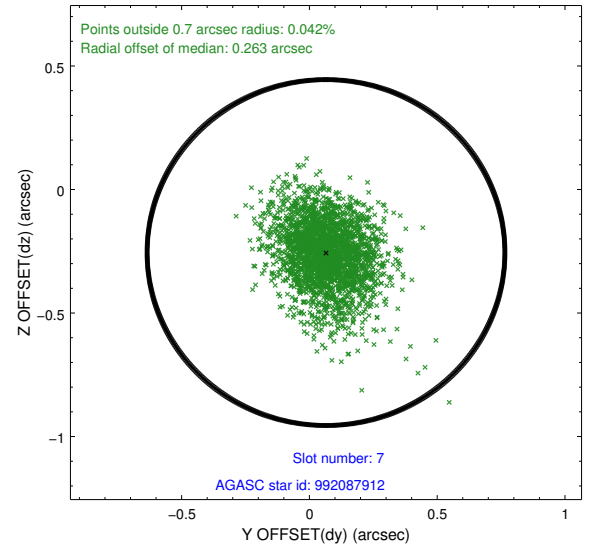
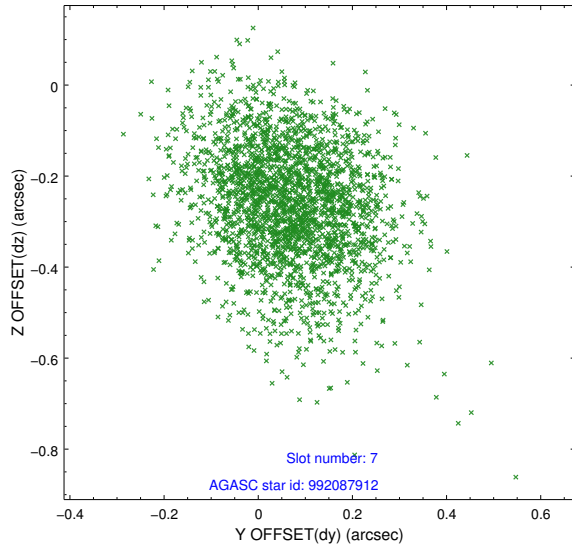
2.4.2 Slot 4



2.4.3 Slot 6

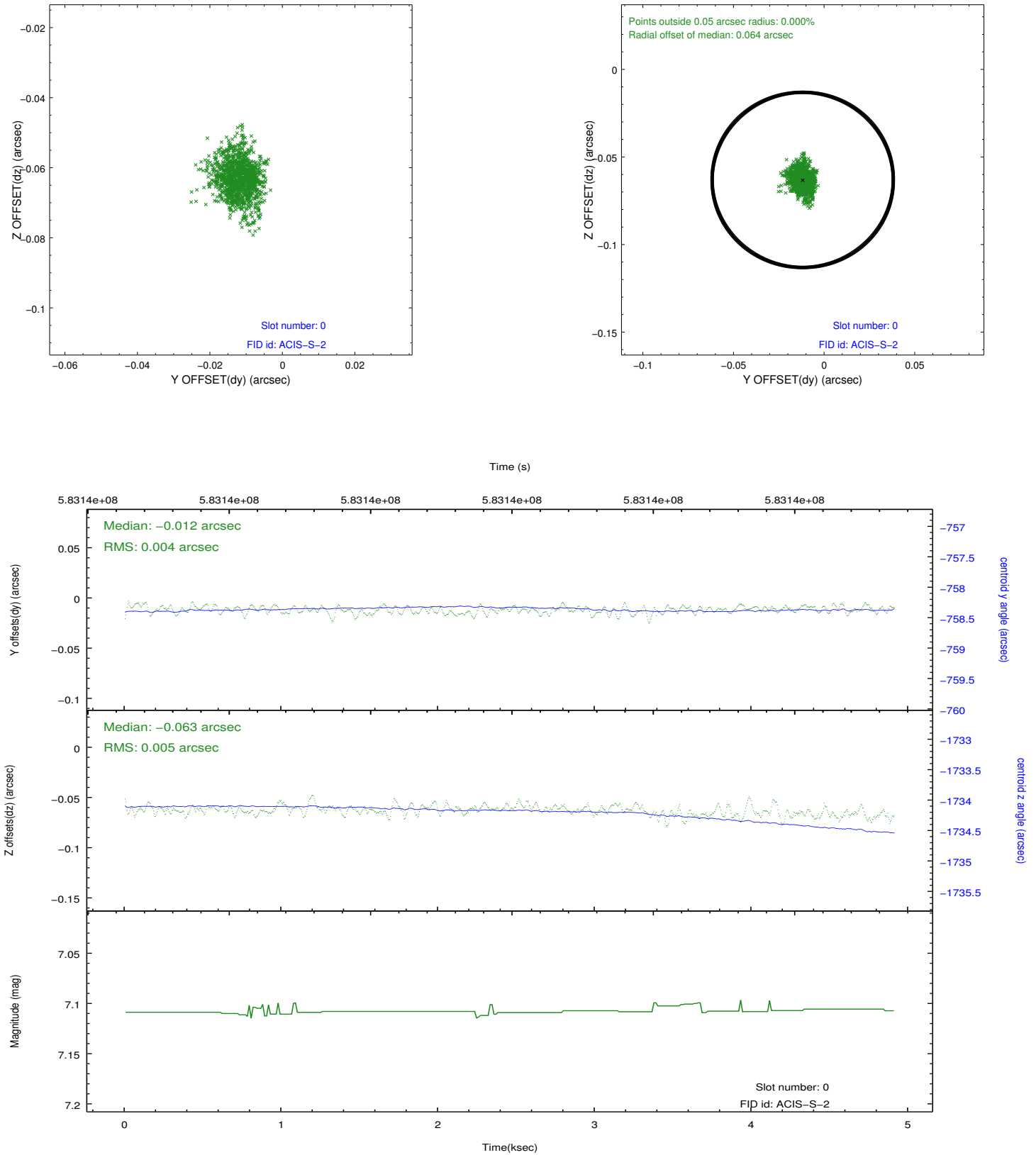


2.4.4 Slot 7

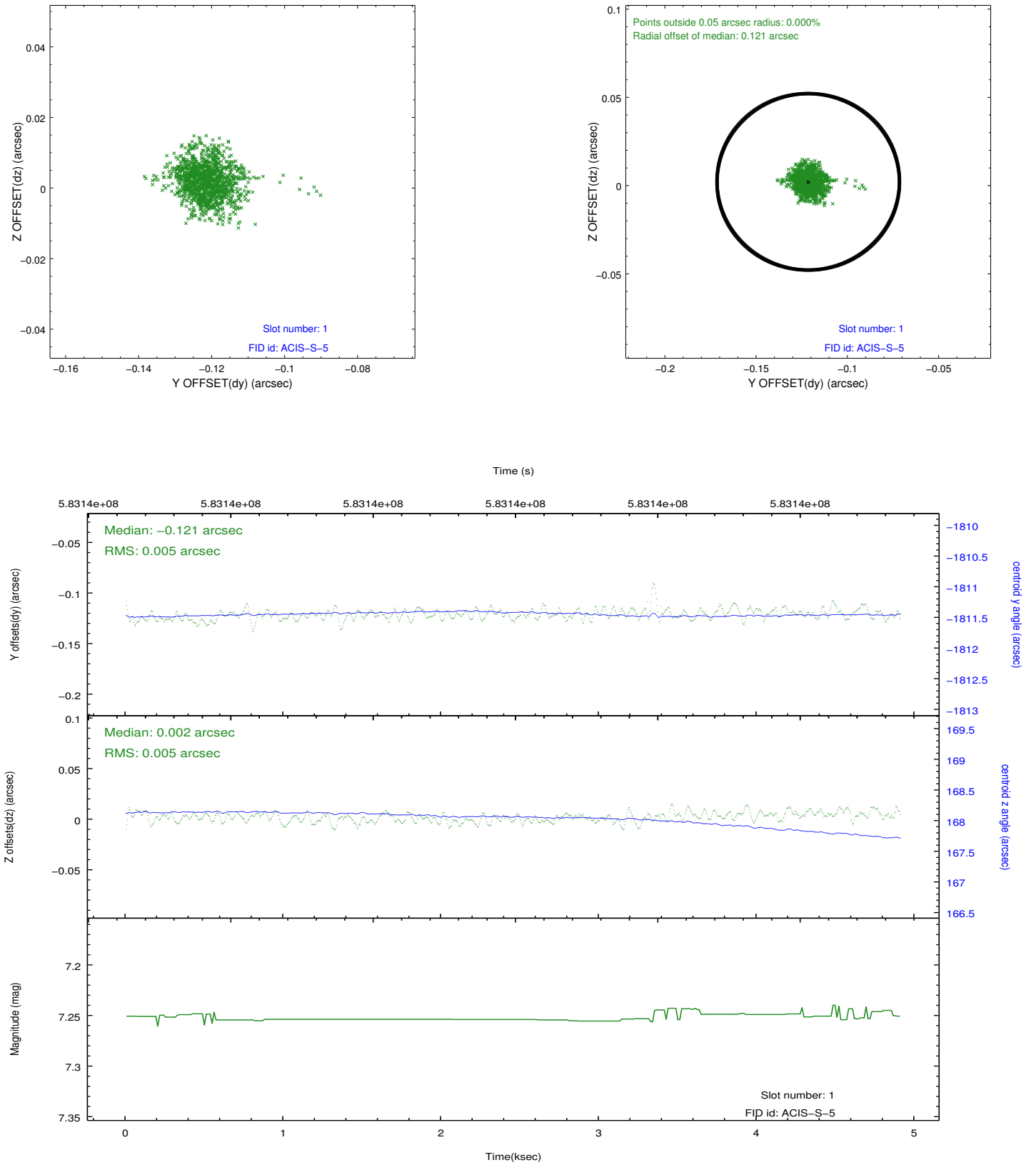


2.5 FID Slots

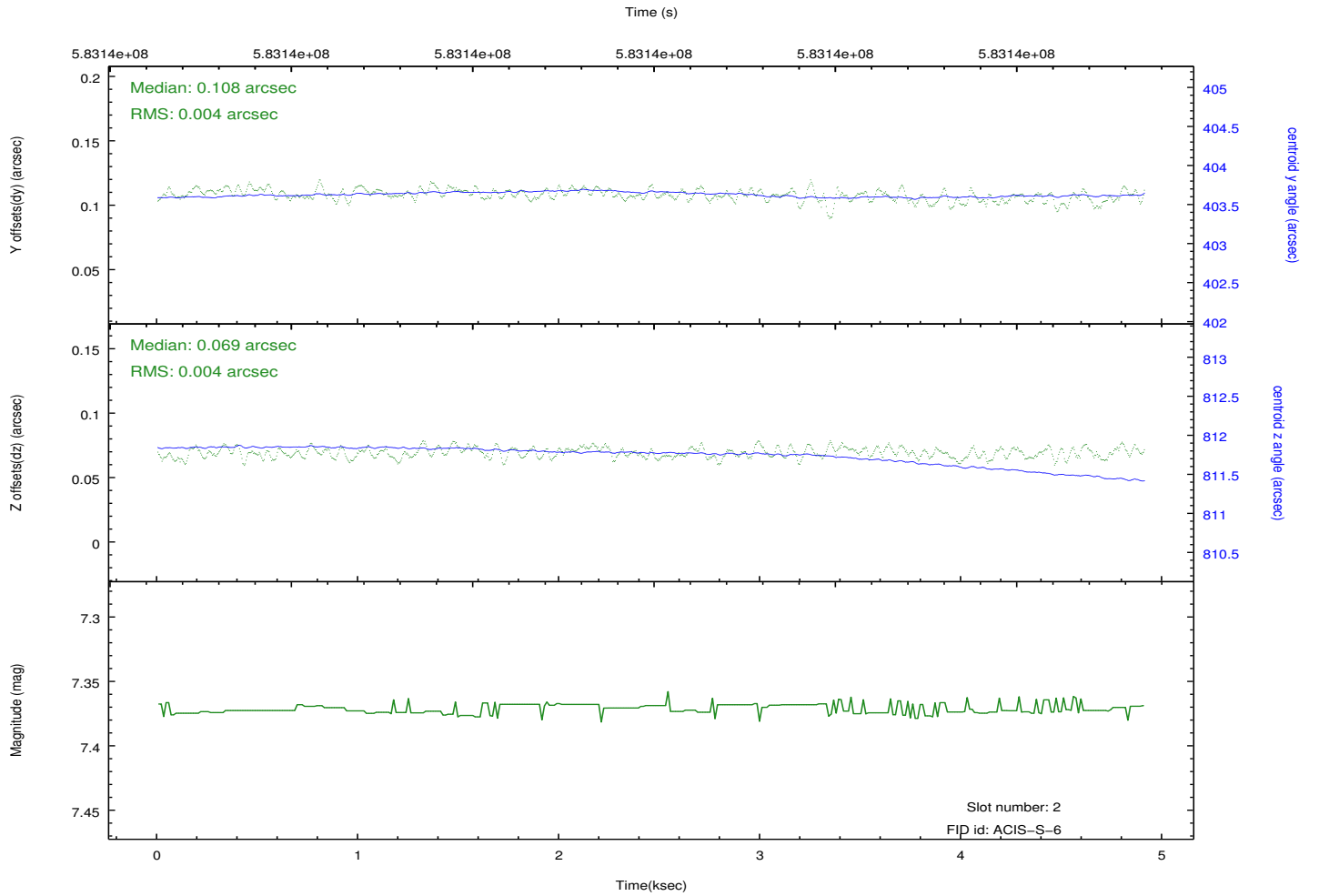
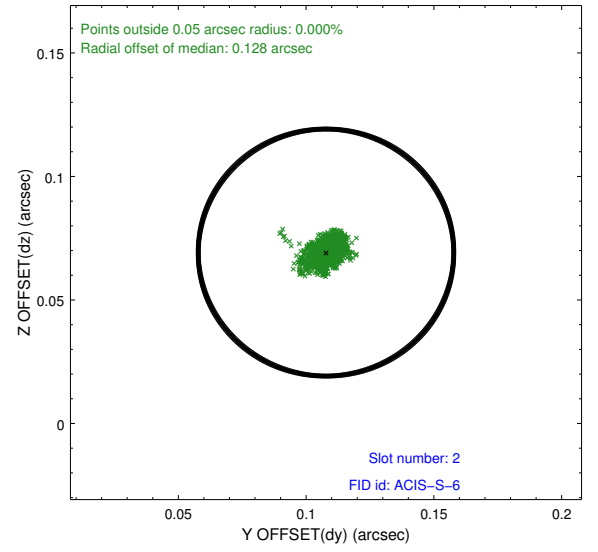
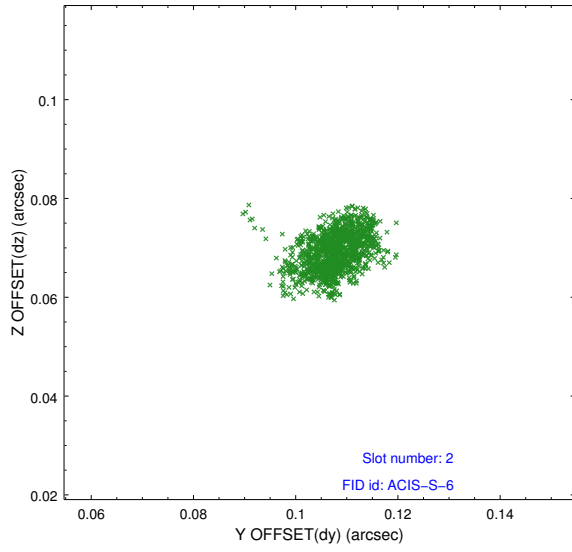
2.5.1 Slot 0



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)	2016.06.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.904200037837

A.2 Comments

The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.