

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 21431 - L2 Version 1
Chandra X-Ray Center

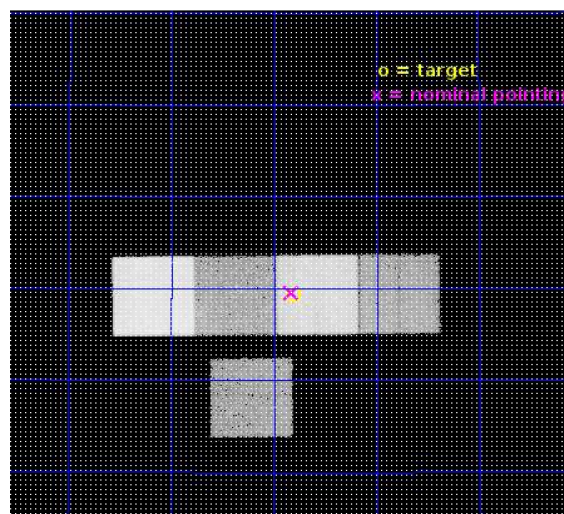
L2 Processing Date : Oct 8 2019

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 5	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

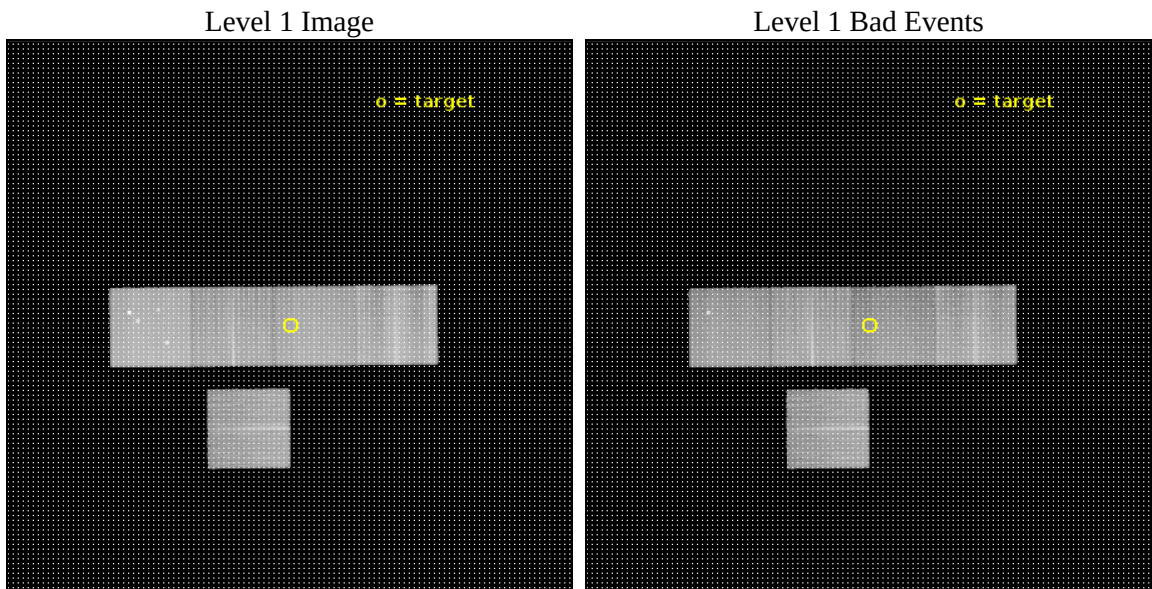
seq_num	703728	Sequence number
obs_id	21431	Observation id
title	The Nature of MaNGA Galaxies with Off-nuclear Seyfert Regions	Prop
observer	Julia Comerford	Principal investigator
object	SDSS J125448.95+440920.1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	193.704167	Observer's specified target RA [deg]
dec_targ	44.155583	Observer's specified target Dec [deg]
ra_nom	193.70754365295	Nominal RA [deg]
dec_nom	44.159376799938	Nominal Dec [deg]
roll_nom	359.41916918694	Nominal Roll [deg]
revision	1	Processing version of data
ontime	35095.100270033	Sum of GTIs [s]
livetime	34636.556948368	Livetime [s]
ontime2	35091.959299564	Sum of GTIs [s]
ontime5	35095.100270033	Sum of GTIs [s]
ontime6	35095.100270033	Sum of GTIs [s]
ontime7	35095.100270033	Sum of GTIs [s]
ontime8	35095.100270033	Sum of GTIs [s]
l2events	372863	Number of level 2 events



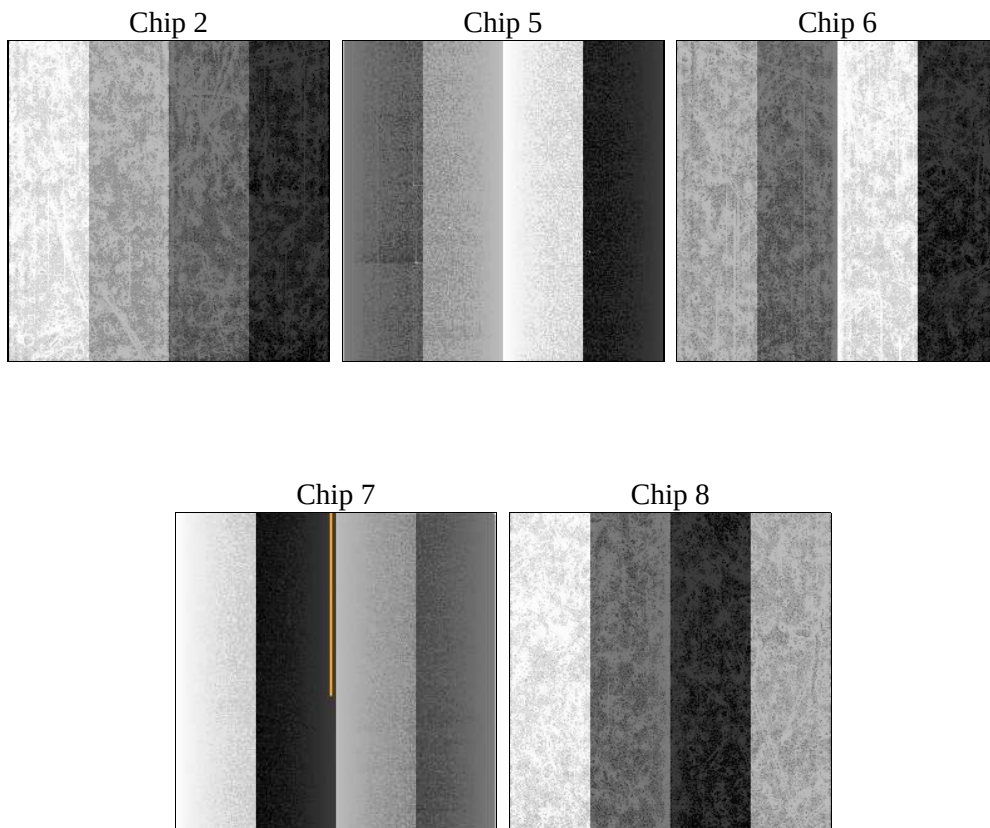
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	35000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	35095.100270033	Sum of GTIs [s]
caldsver	4.8.4.2	 	ontime2	35091.959299564	Sum of GTIs [s]
date	2019-10-08T19:30:35	Date and time of file creation	ontime5	35095.100270033	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	35095.100270033	Sum of GTIs [s]
			ontime7	35095.100270033	Sum of GTIs [s]
			ontime8	35095.100270033	Sum of GTIs [s]
			l1events	1455315	Number of level 1 events

2.1.4 Events

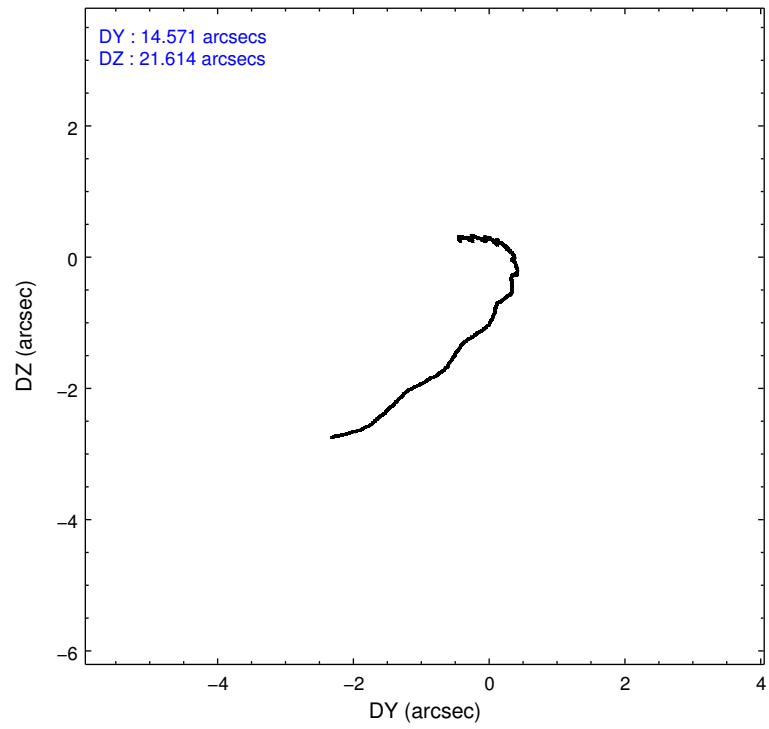
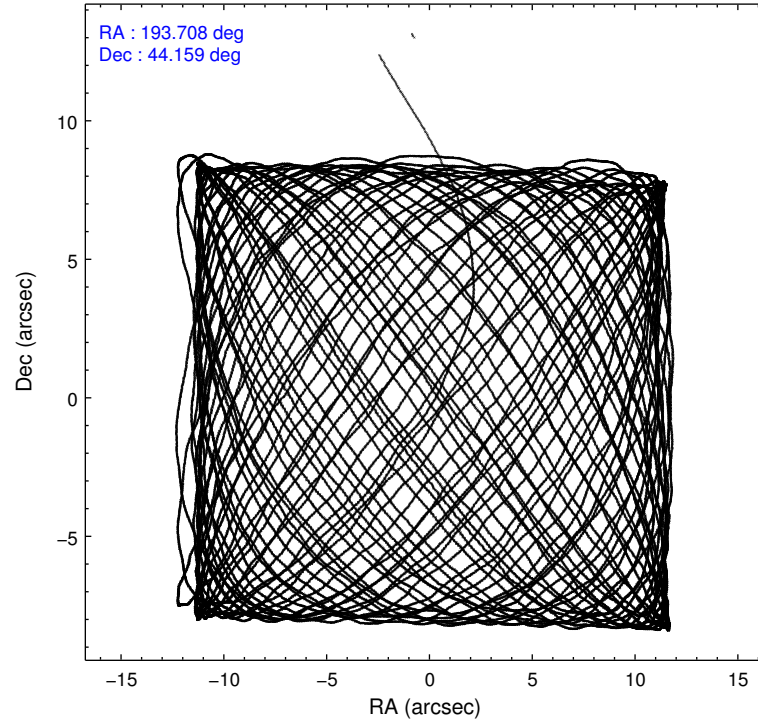
	ccd 2	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	238673	373696	250337	269355	323254
rejected events	211947	178545	221570	141834	227620
rejected %	88%	47%	88%	52%	70%

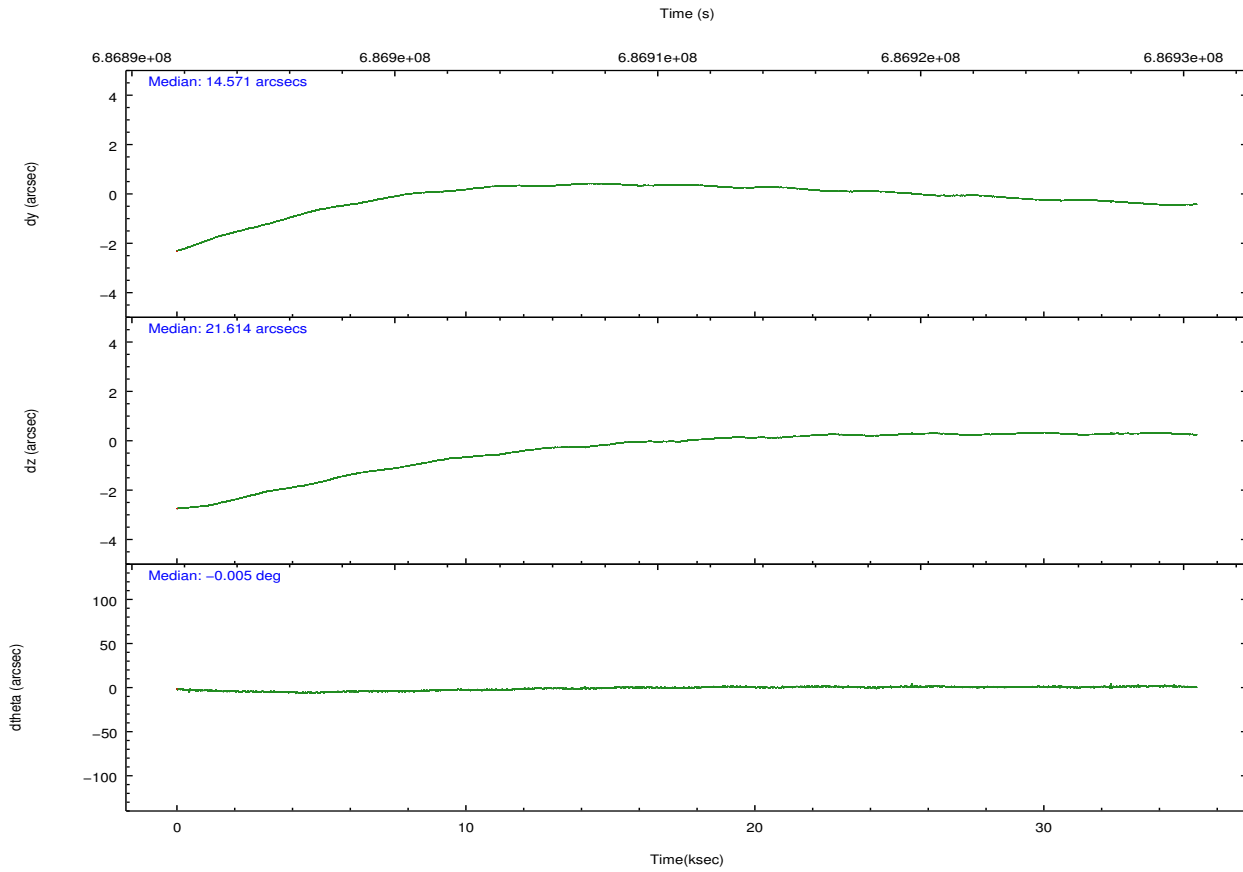
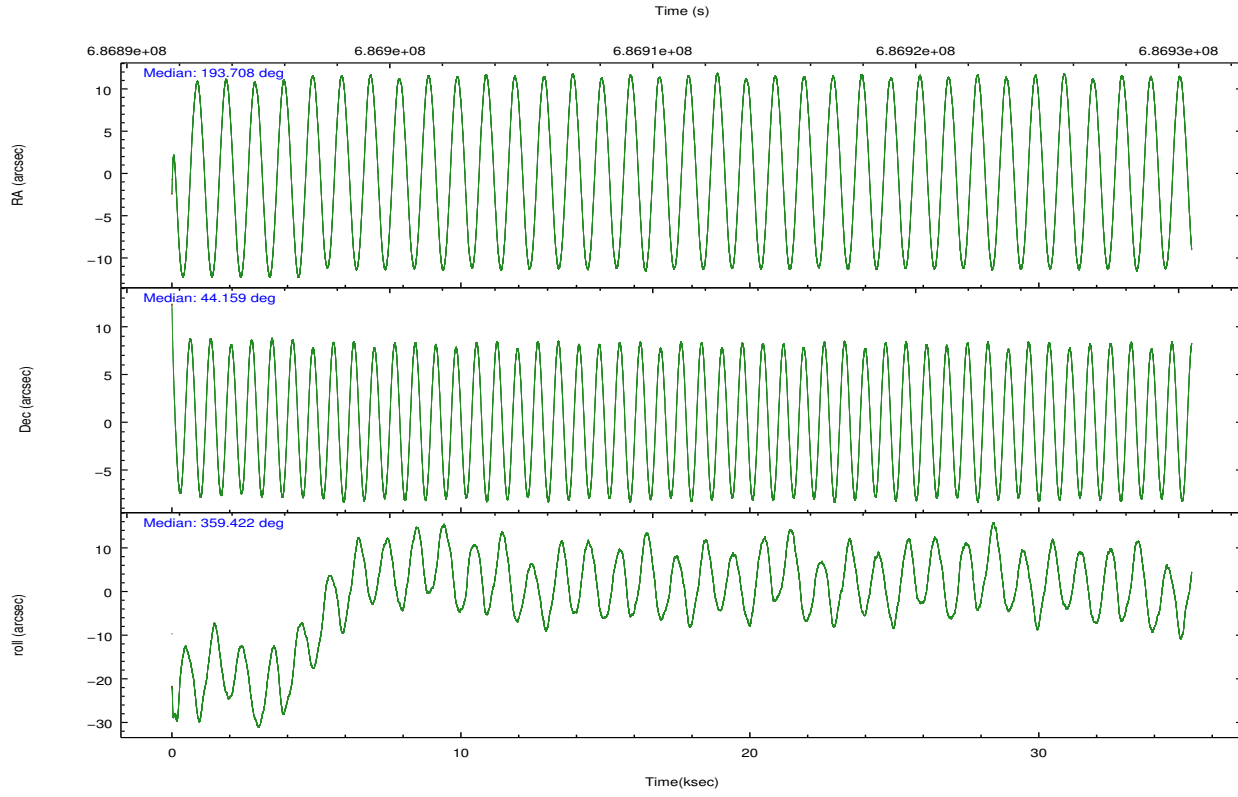
	ccd 2	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	9746	20517	10538	11874	25876
	4%	5%	4%	4%	8%
grade 1 events	154	1078	131	564	271
	0%	0%	0%	0%	0%
grade 2 events	6813	65052	6630	28940	23314
	2%	17%	2%	10%	7%
grade 3 events	2623	6170	2733	10294	10212
	1%	1%	1%	3%	3%
grade 4 events	2664	5884	2691	10142	9742
	1%	1%	1%	3%	3%
grade 5 events	8342	26909	9748	27709	15906
	3%	7%	3%	10%	4%
grade 6 events	4885	97552	6179	66292	26511
	2%	26%	2%	24%	8%
grade 7 events	203446	150534	211687	113540	211422
	85%	40%	84%	42%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-25678	ACIS-25678	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	193.674487	193.7075436529539	CCD I2 on	O1	Y
[deg] Pointing Dec	44.145577	44.15937679993804	CCD I3 on	N	N
[deg] Pointing Roll	359.285569	359.4191691869427	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	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	O3	Y
[s] Observation start time (MET)	686893757.184000	686892746.03819	CCD S5 on	N	N
Observation start date	2019-10-08T03:48:08	2019-10-08T03:32:26	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	686928757.184000	686930171.86544	On-chip summing requested	N	N
Observation end date	2019-10-08T13:31:28	2019-10-08T13:56:11	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



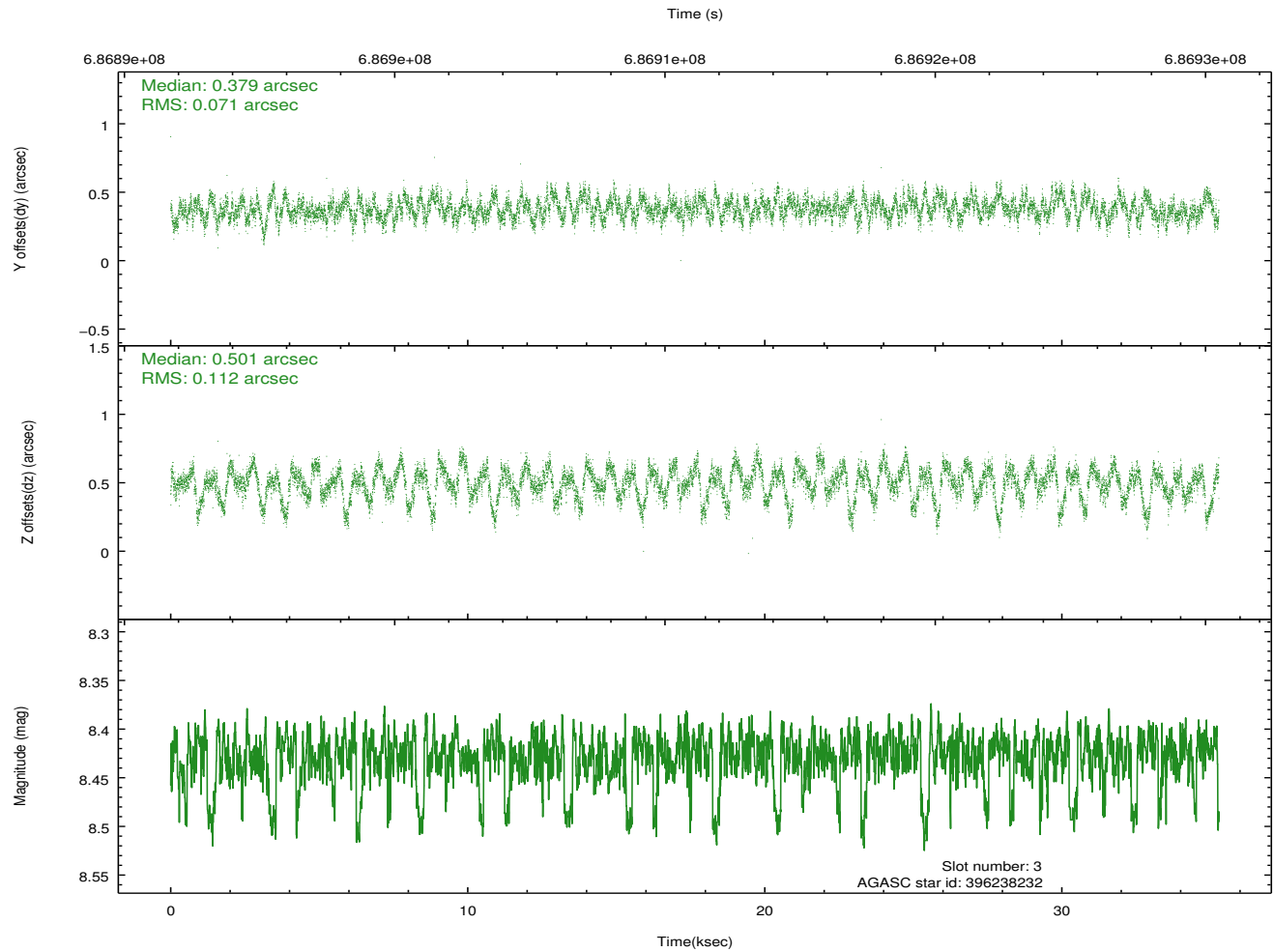
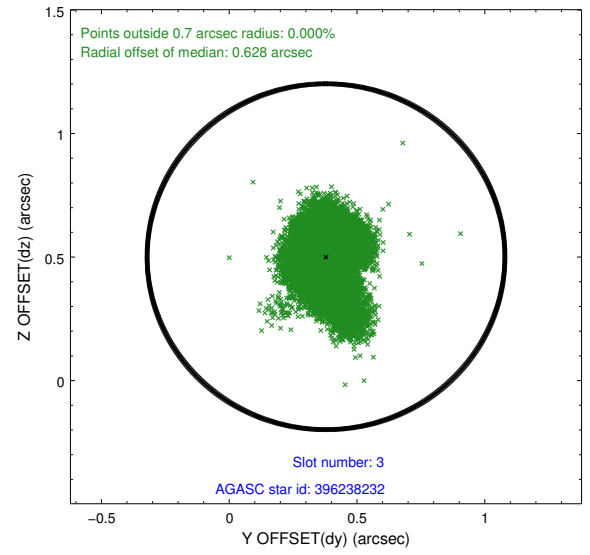
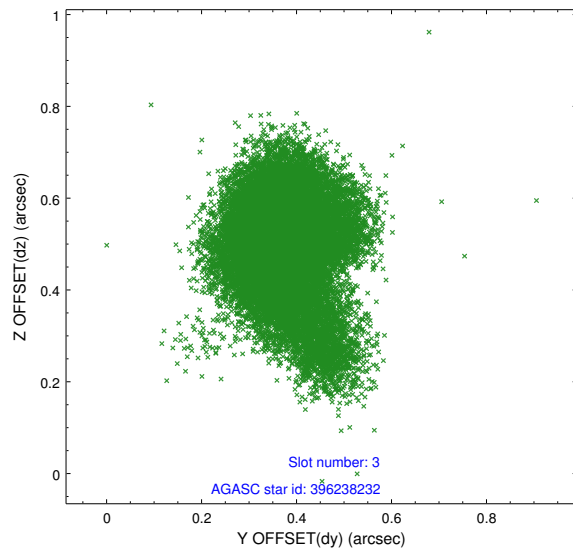


Slot Statistics

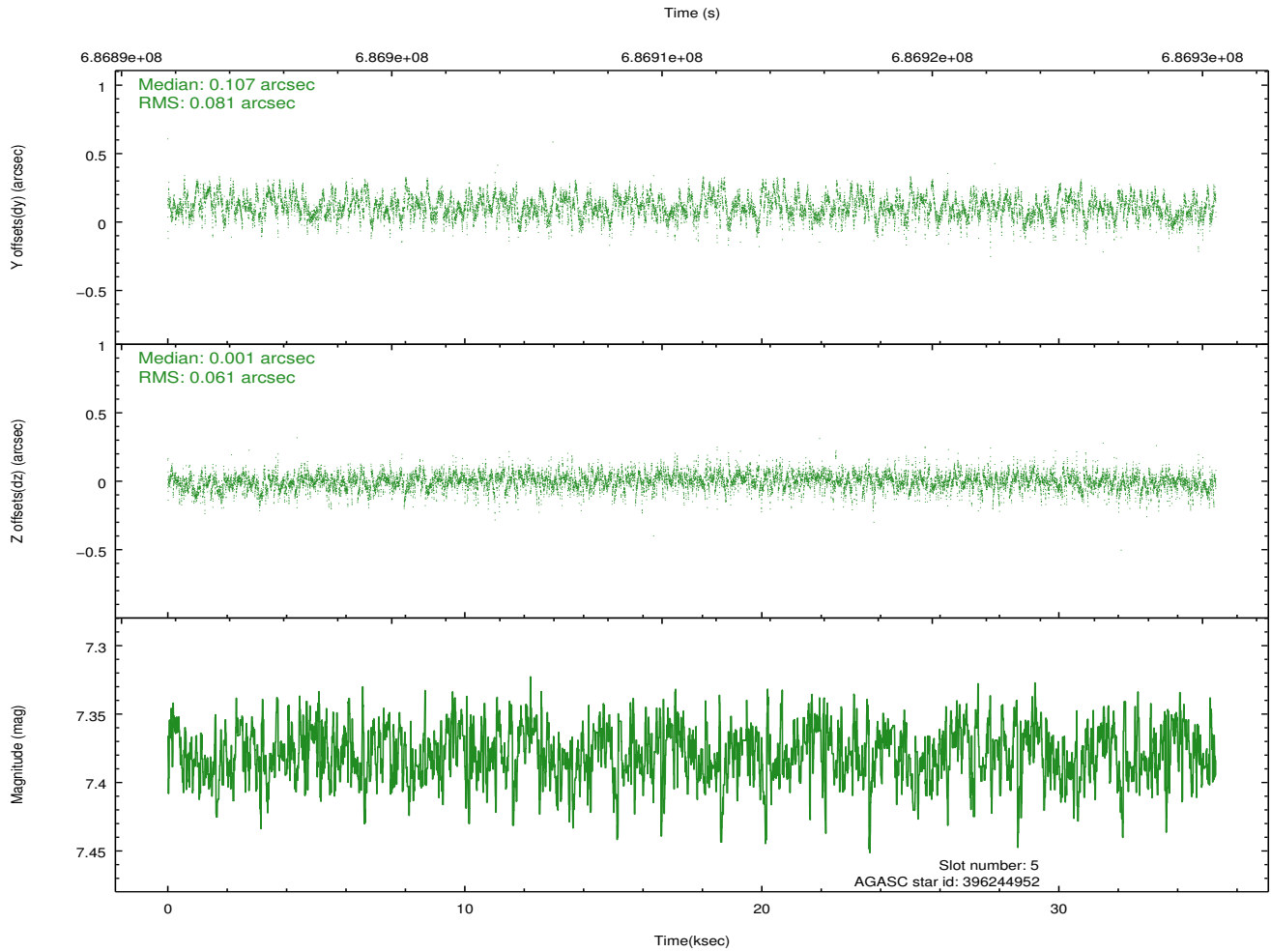
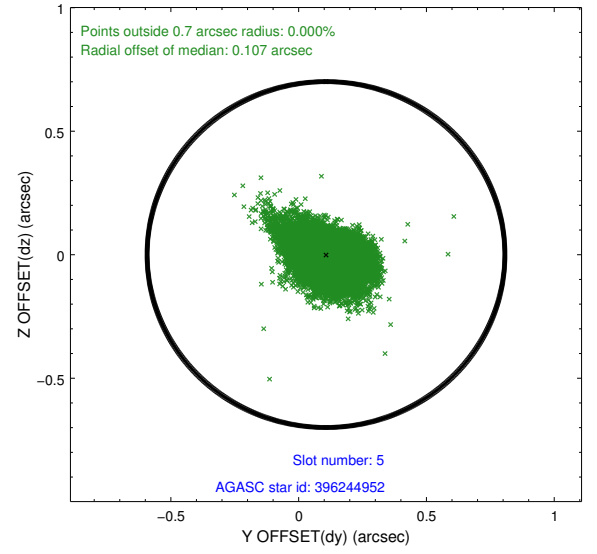
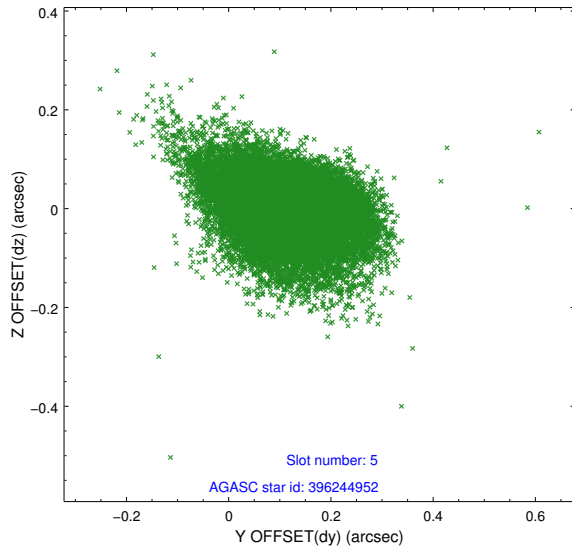
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.98	8608	1.000	-0.291	-0.194	0.023	0.072	0.000000	0.000000	-767.60	-1742
1	FID		ACIS-S-4	7.09	8608	1.000	0.737	0.193	0.017	0.069	0.000000	0.000000	2146.63	165
2	FID		ACIS-S-5	7.06	8608	1.000	-0.477	0.012	0.018	0.032	0.000000	0.000000	-1820.63	159
3	GUIDE	used	396238232	8.43	17203	1.000	0.379	0.501	0.137	0.241	193.140301	43.771007	-1371.74	-1359
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	396244952	7.38	17212	1.000	0.107	0.001	0.105	0.178	194.161741	43.552020	1297.85	-2116
6	GUIDE	used	396247792	8.27	17206	1.000	0.110	-0.028	0.120	0.214	194.372750	43.822032	1827.31	-1134
7	GUIDE	used	396249232	9.36	17121	1.000	-0.598	-0.454	0.175	0.276	194.582105	44.558044	2308.84	1526

2.4 Star Slots

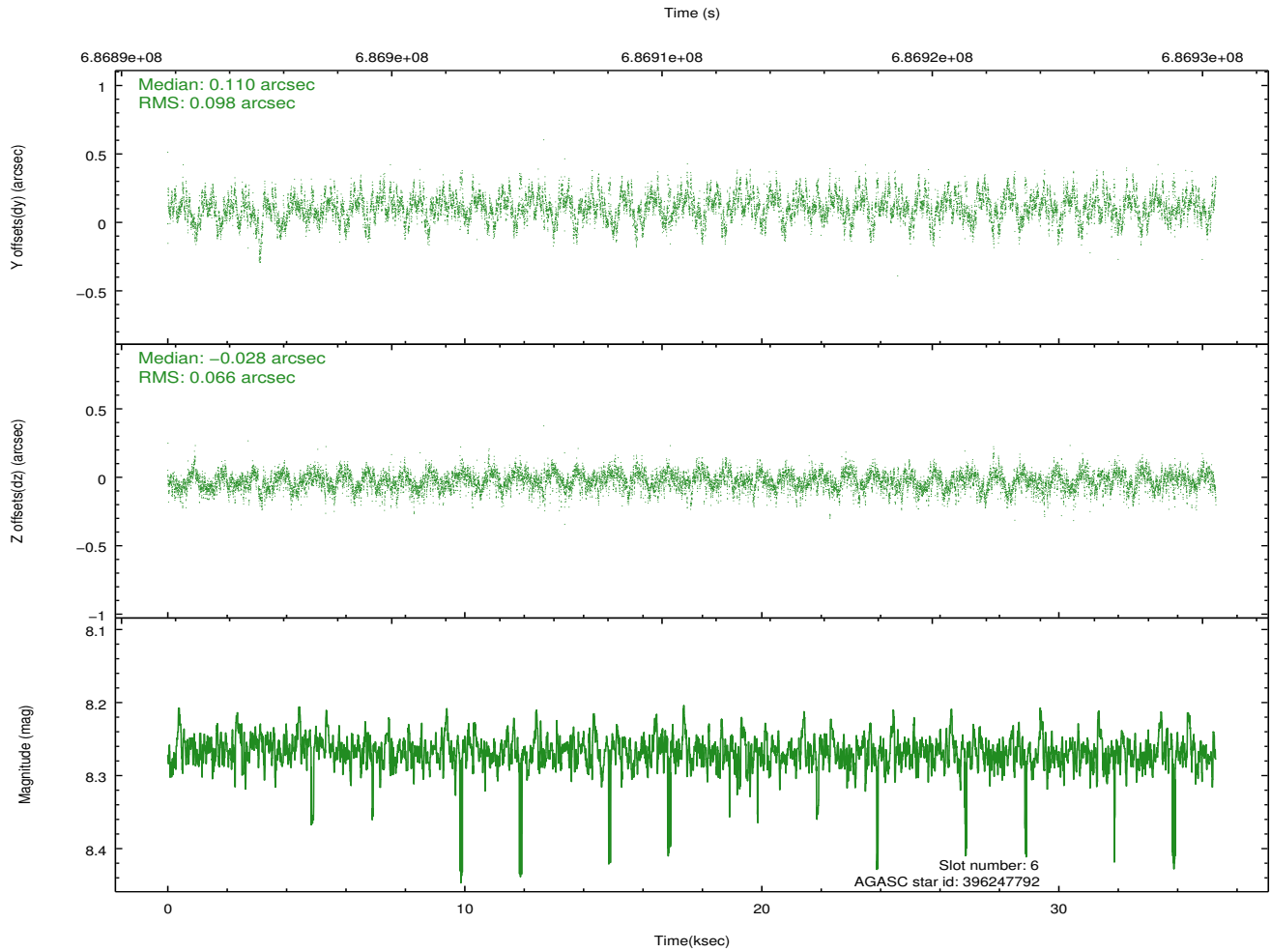
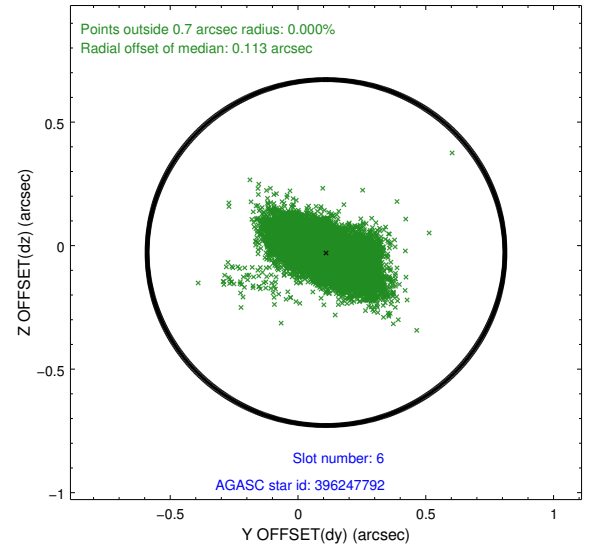
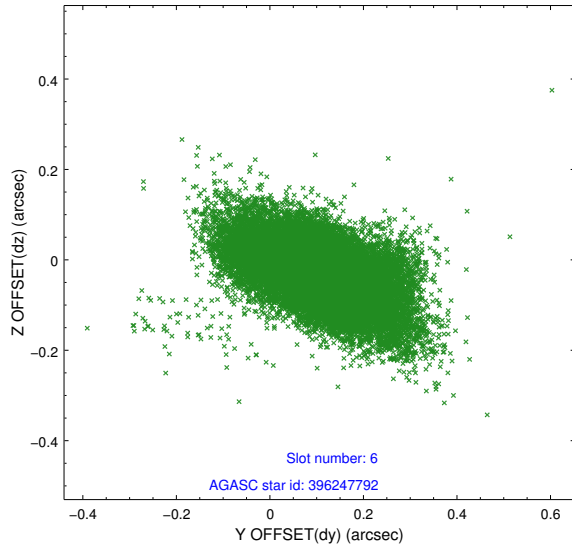
2.4.1 Slot 3



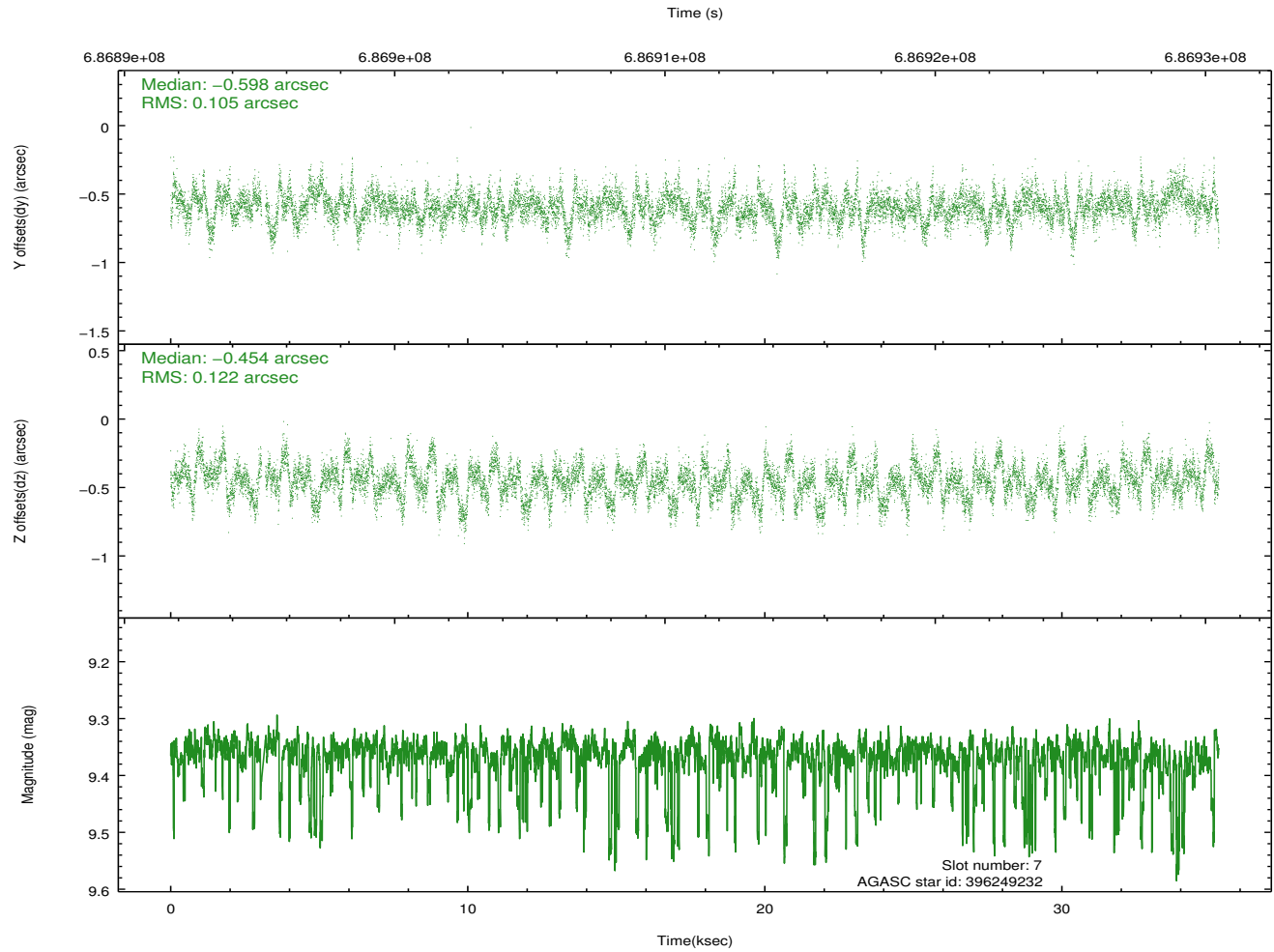
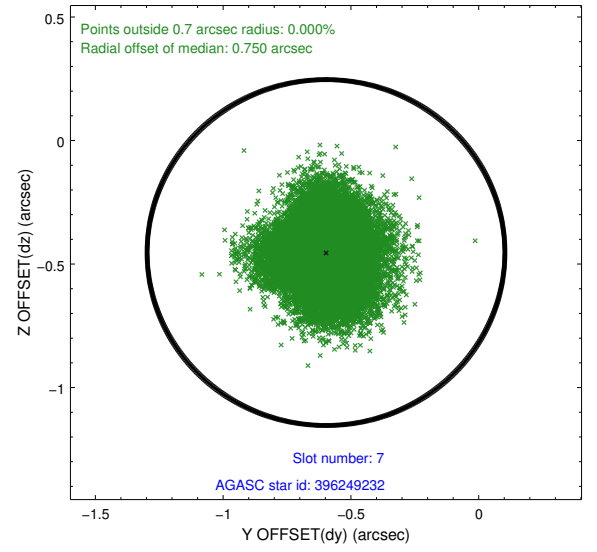
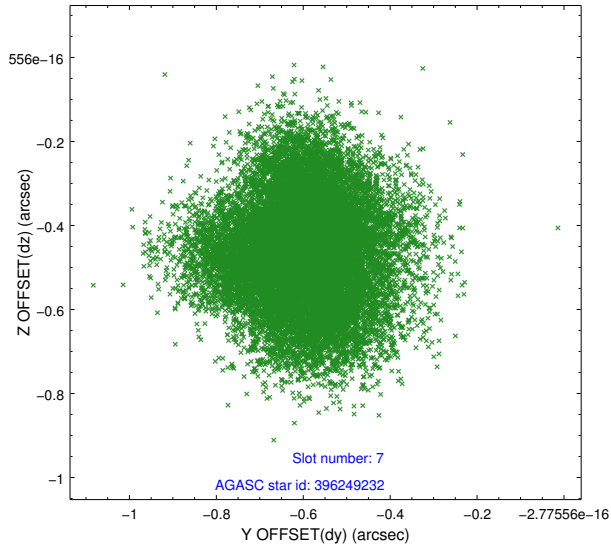
2.4.2 Slot 5



2.4.3 Slot 6

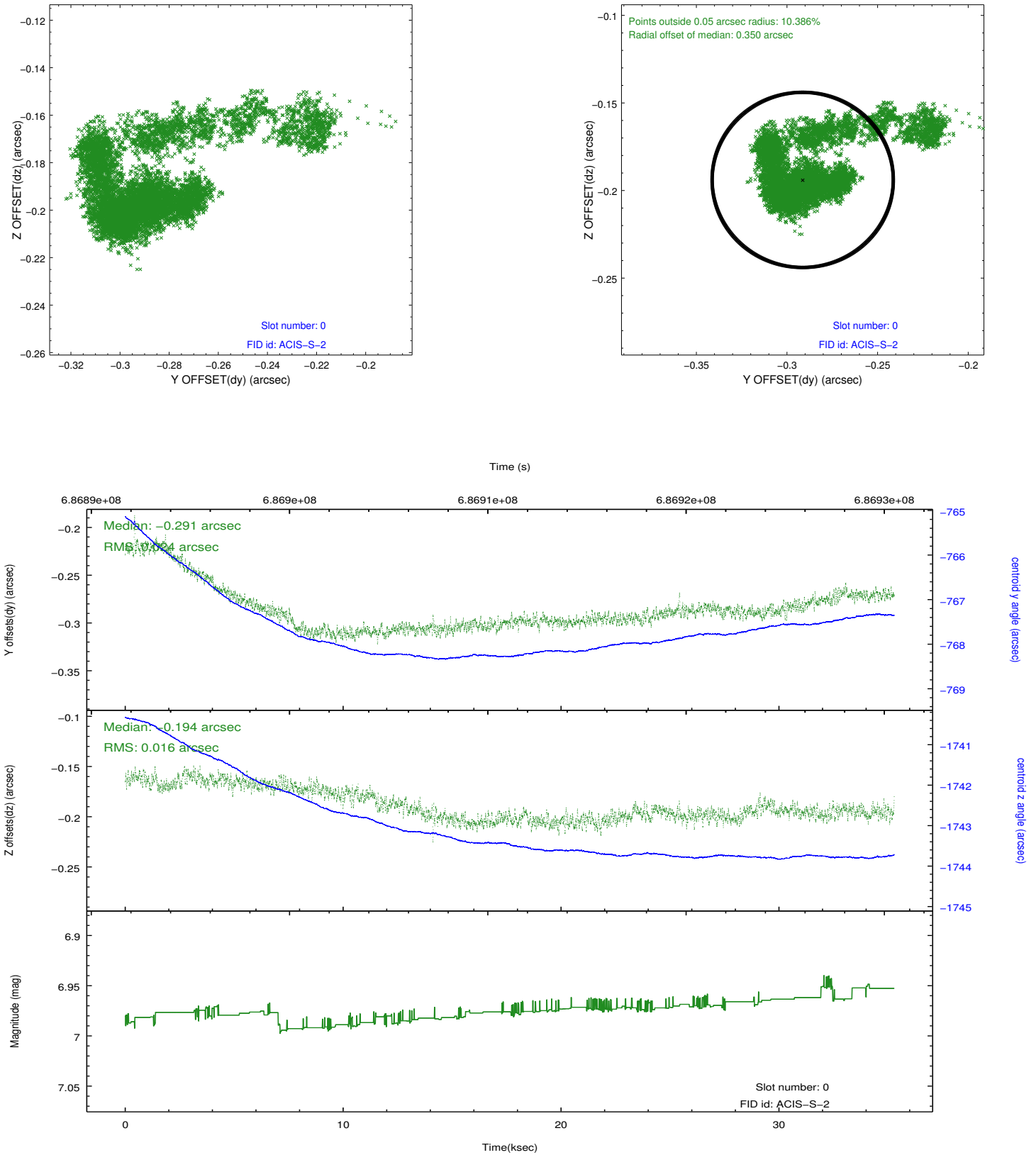


2.4.4 Slot 7

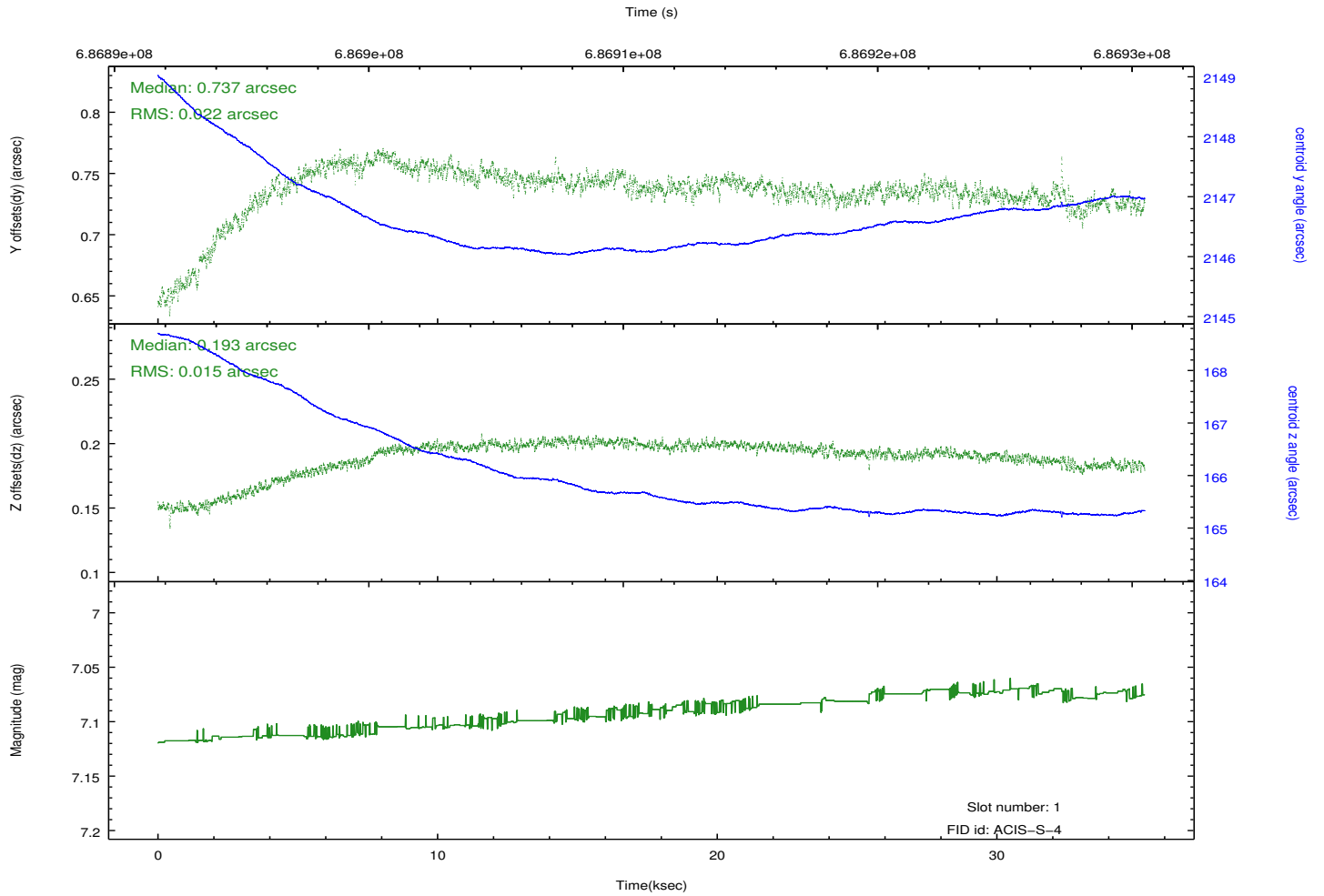
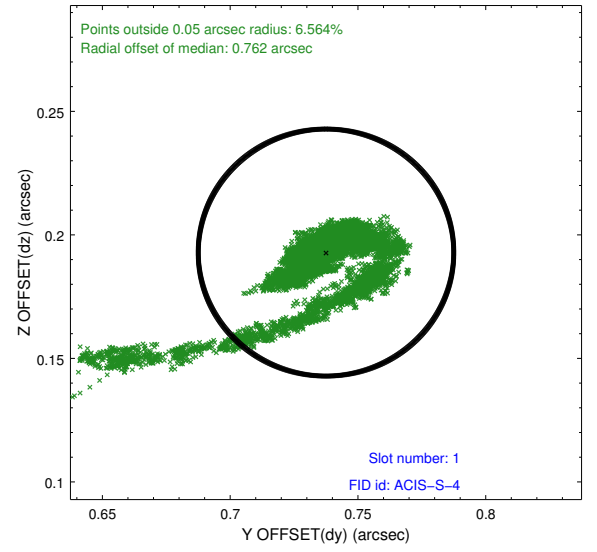
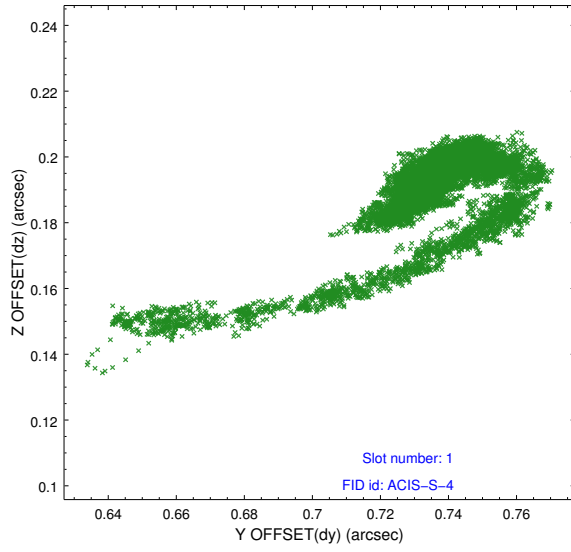


2.5 FID Slots

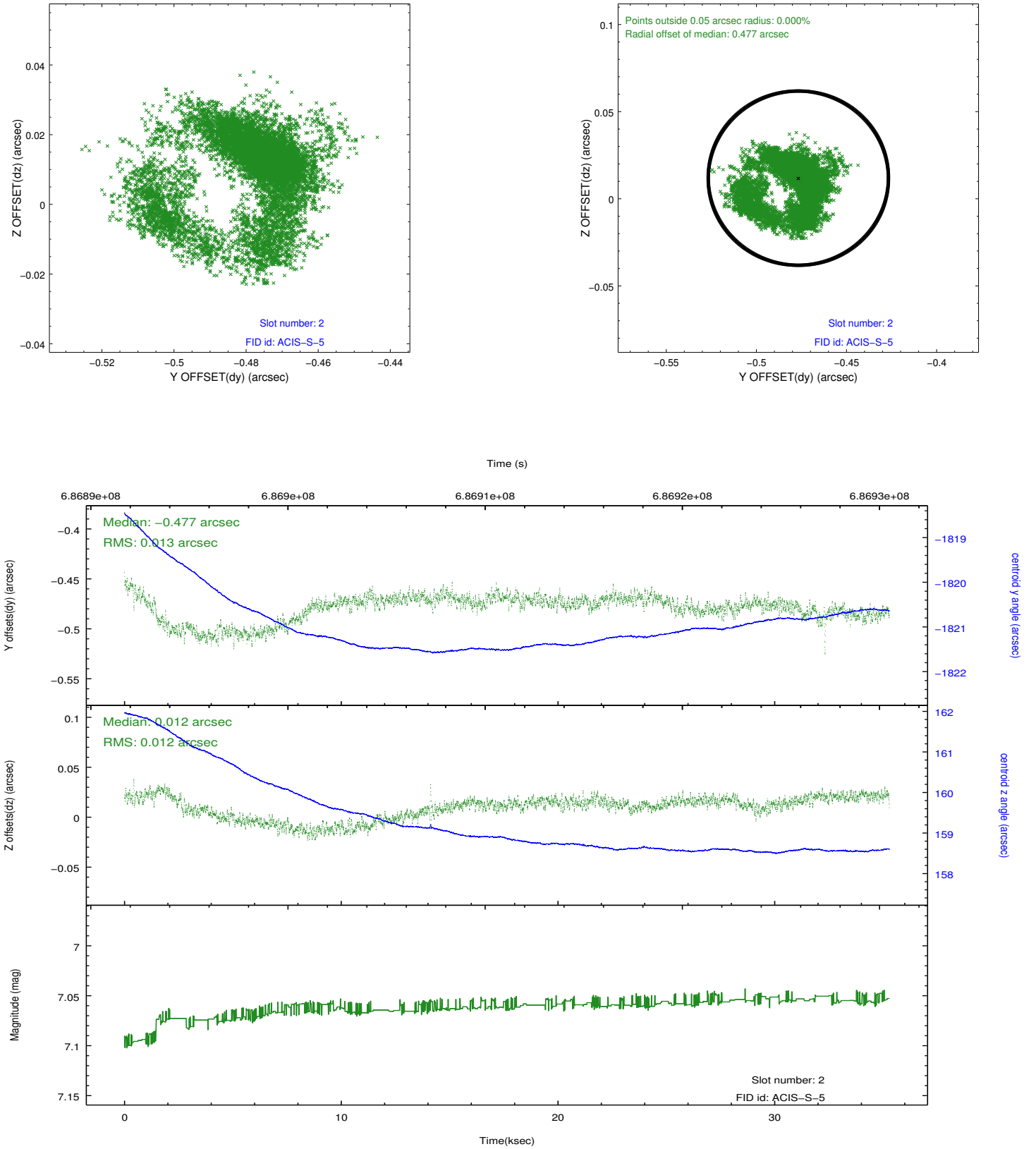
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2019.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.095100270033

A.2 Comments

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 guide star from the solution.