

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 18953 - L2 Version 1
Chandra X-Ray Center

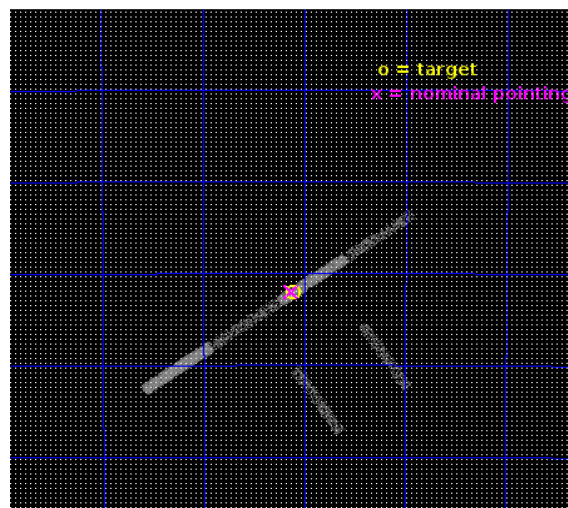
L2 Processing Date : Jun 18 2017

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

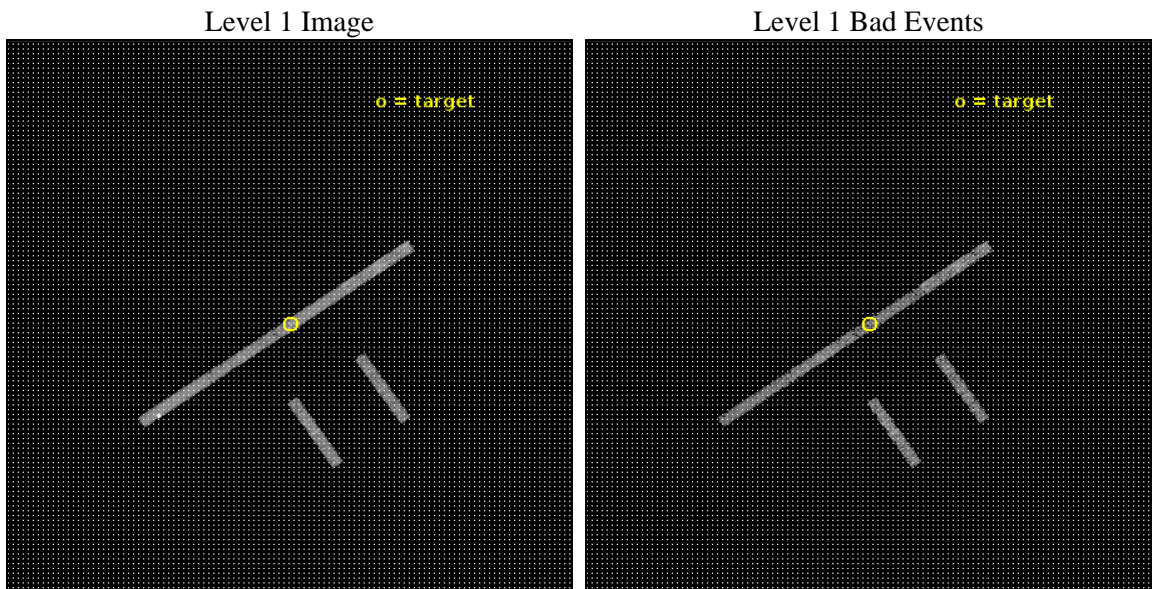
seq_num	401821	Sequence number
obs_id	18953	Observation id
title	Understanding Dust Production in Supergiant X-ray Binaries	Proposa
observer	Thomas Maccarone	Principal investigator
object	IGR J16479-4514	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	252.0275	Observer's specified target RA [deg]
dec_targ	-45.201889	Observer's specified target Dec [deg]
ra_nom	252.03215691304	Nominal RA [deg]
dec_nom	-45.200085663495	Nominal Dec [deg]
roll_nom	325.61757540764	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5053.3003442287	Sum of GTIs [s]
livetime	4773.4403553926	Livetime [s]
ontime2	5053.3003442287	Sum of GTIs [s]
ontime3	5053.3003442287	Sum of GTIs [s]
ontime5	5053.3003442287	Sum of GTIs [s]
ontime6	5053.3003442287	Sum of GTIs [s]
ontime7	5053.3003442287	Sum of GTIs [s]
ontime8	5053.3003442287	Sum of GTIs [s]
l2events	10294	Number of level 2 events



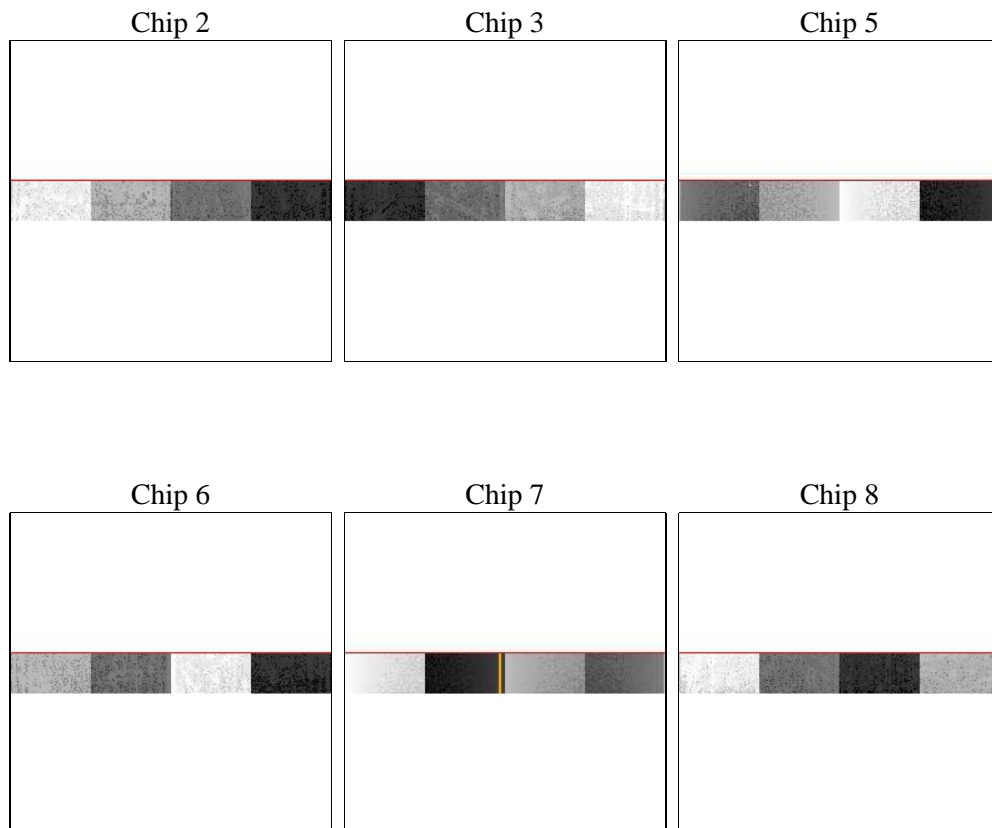
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	5053.3003442287	Sum of GTIs [s]
caldsver	4.7.5	 	ontime2	5053.3003442287	Sum of GTIs [s]
date	2017-06-18T22:41:35	Date and time of file creation	ontime3	5053.3003442287	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	5053.3003442287	Sum of GTIs [s]
			ontime6	5053.3003442287	Sum of GTIs [s]
			ontime7	5053.3003442287	Sum of GTIs [s]
			ontime8	5053.3003442287	Sum of GTIs [s]
			l1events	49682	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	6574	5347	15009	6054	7720	8978
rejected events	5786	4684	4216	5338	3639	6575
rejected %	88%	87%	28%	88%	47%	73%

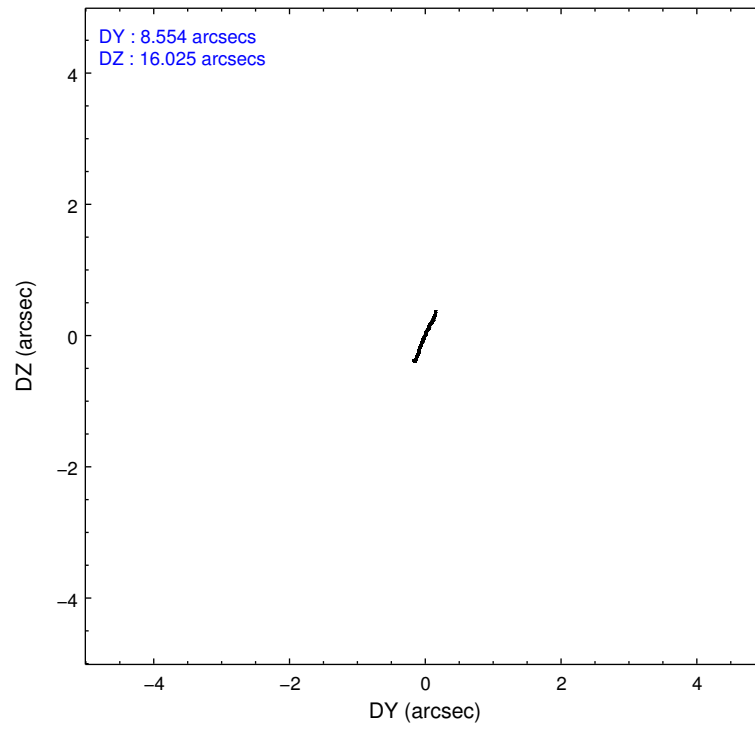
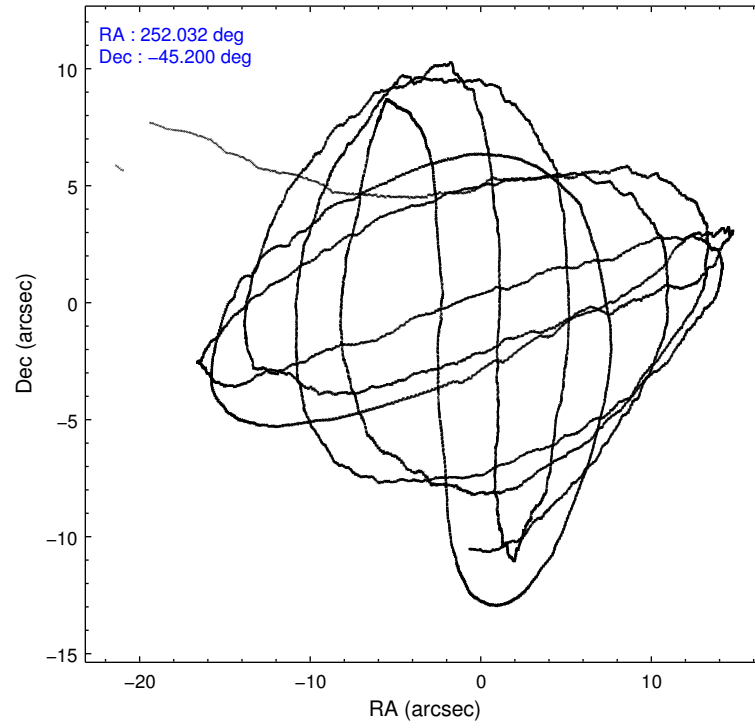
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	254	252	5750	224	524	552
	3%	4%	38%	3%	6%	6%
grade 1 events	2	2	38	1	11	3
	0%	0%	0%	0%	0%	0%
grade 2 events	184	118	2523	132	879	543
	2%	2%	16%	2%	11%	6%
grade 3 events	114	92	274	109	439	262
	1%	1%	1%	1%	5%	2%
grade 4 events	111	103	320	112	481	273
	1%	1%	2%	1%	6%	3%
grade 5 events	220	231	707	273	718	346
	3%	4%	4%	4%	9%	3%
grade 6 events	125	98	1929	139	1759	773
	1%	1%	12%	2%	22%	8%
grade 7 events	5564	4451	3468	5064	2909	6226
	84%	83%	23%	83%	37%	69%

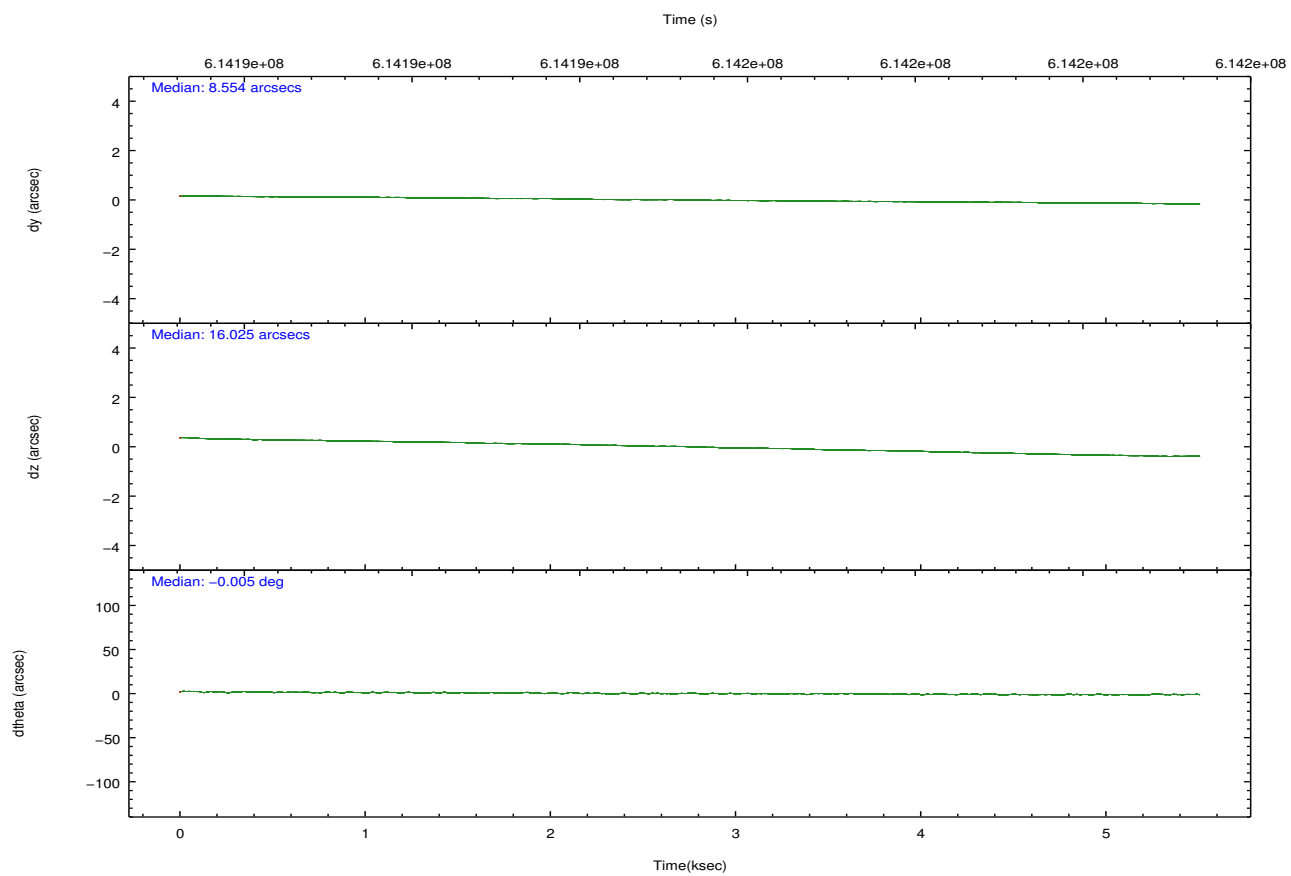
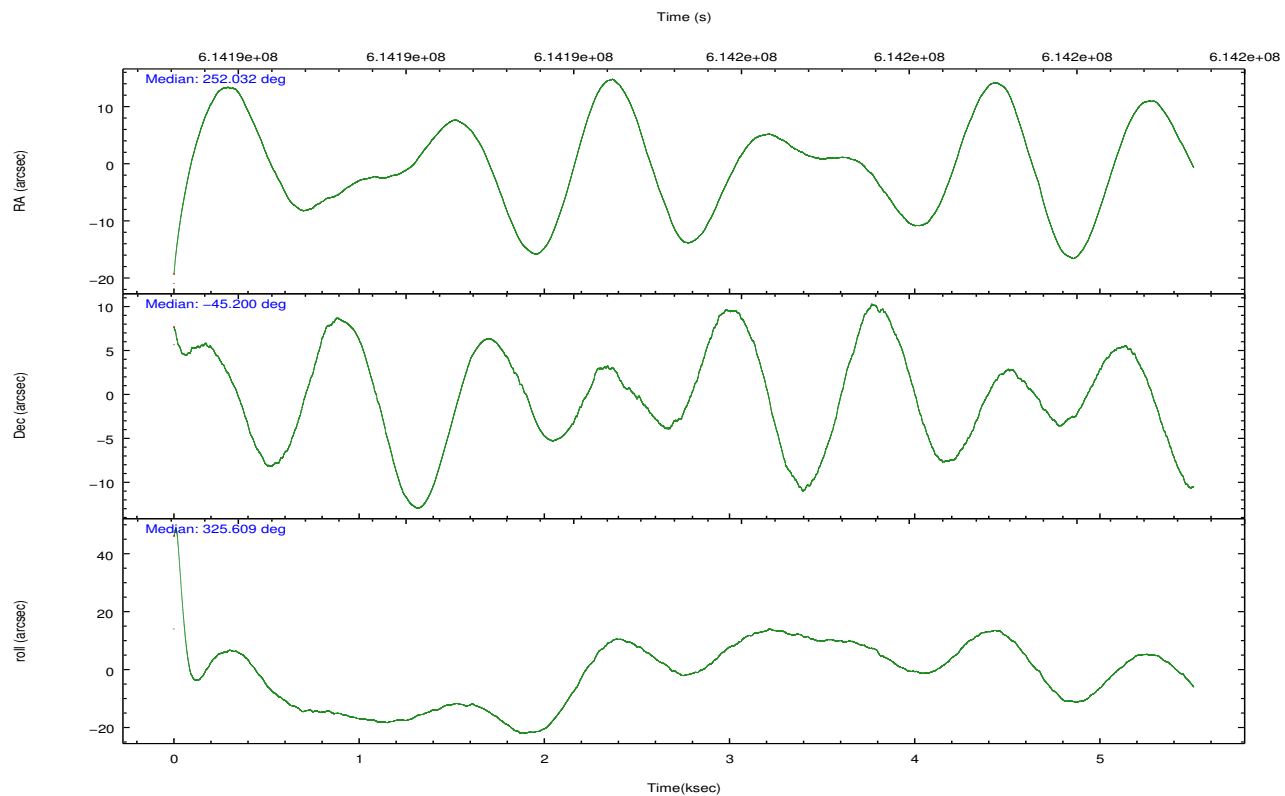
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	251.993130	252.0321569130396
[deg] Pointing Dec	-45.198395	-45.20008566349524
[deg] Pointing Roll	325.433046	325.6175754076359
[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)	614192426.184000	614190738.0468
Observation start date	2017-06-18T16:59:17	2017-06-18T16:32:18
[s] Observation end time (MET)	614197426.184000	614198345.0847501
Observation end date	2017-06-18T18:22:37	2017-06-18T18:39:05
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O4	Y
CCD I3 on	O3	Y
CCD S0 on	N	N
CCD S1 on	O1	Y
CCD S2 on	O2	Y
CCD S3 on	Y	Y
CCD S4 on	O5	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.7

2.3 Aspect



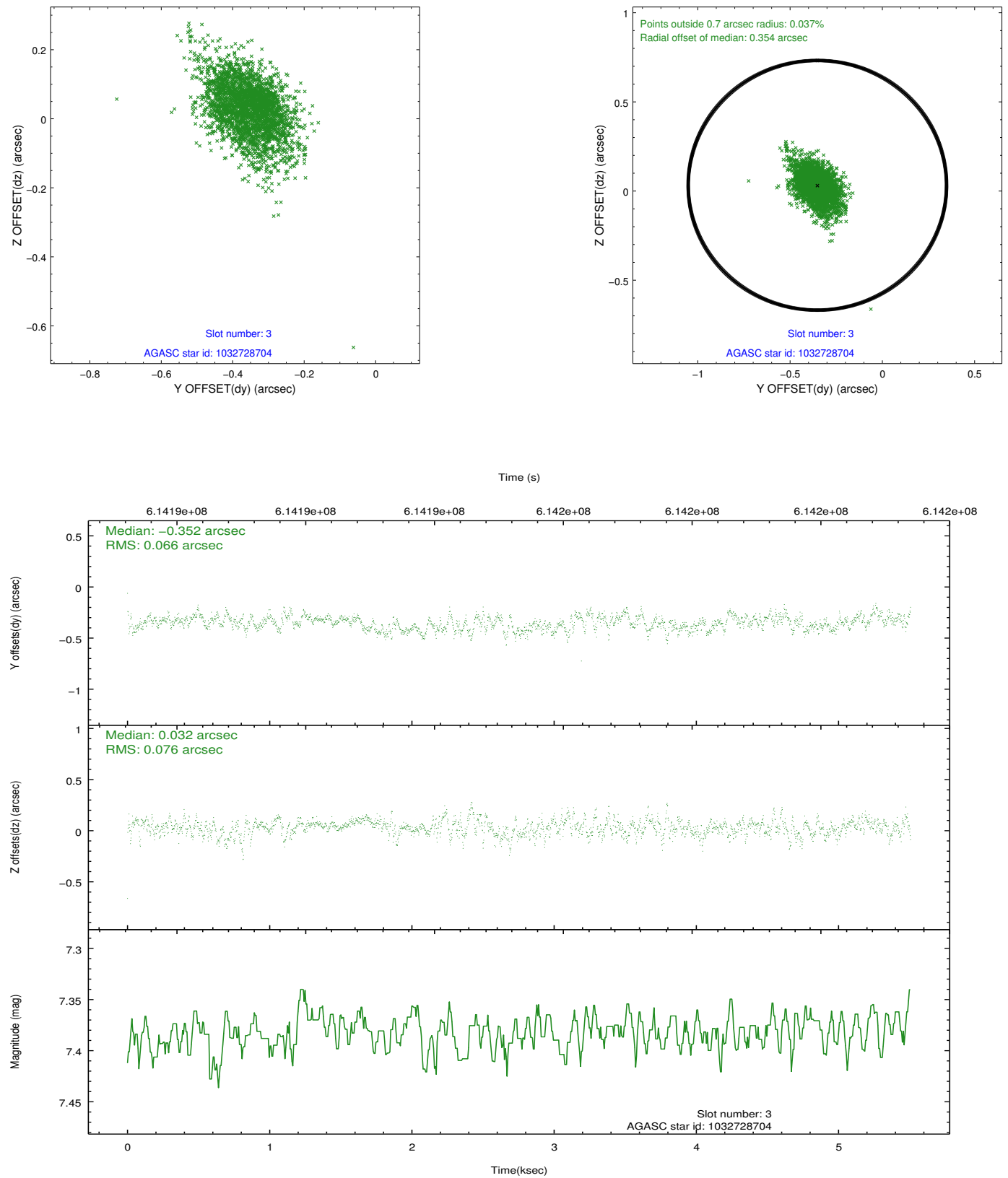


Slot Statistics

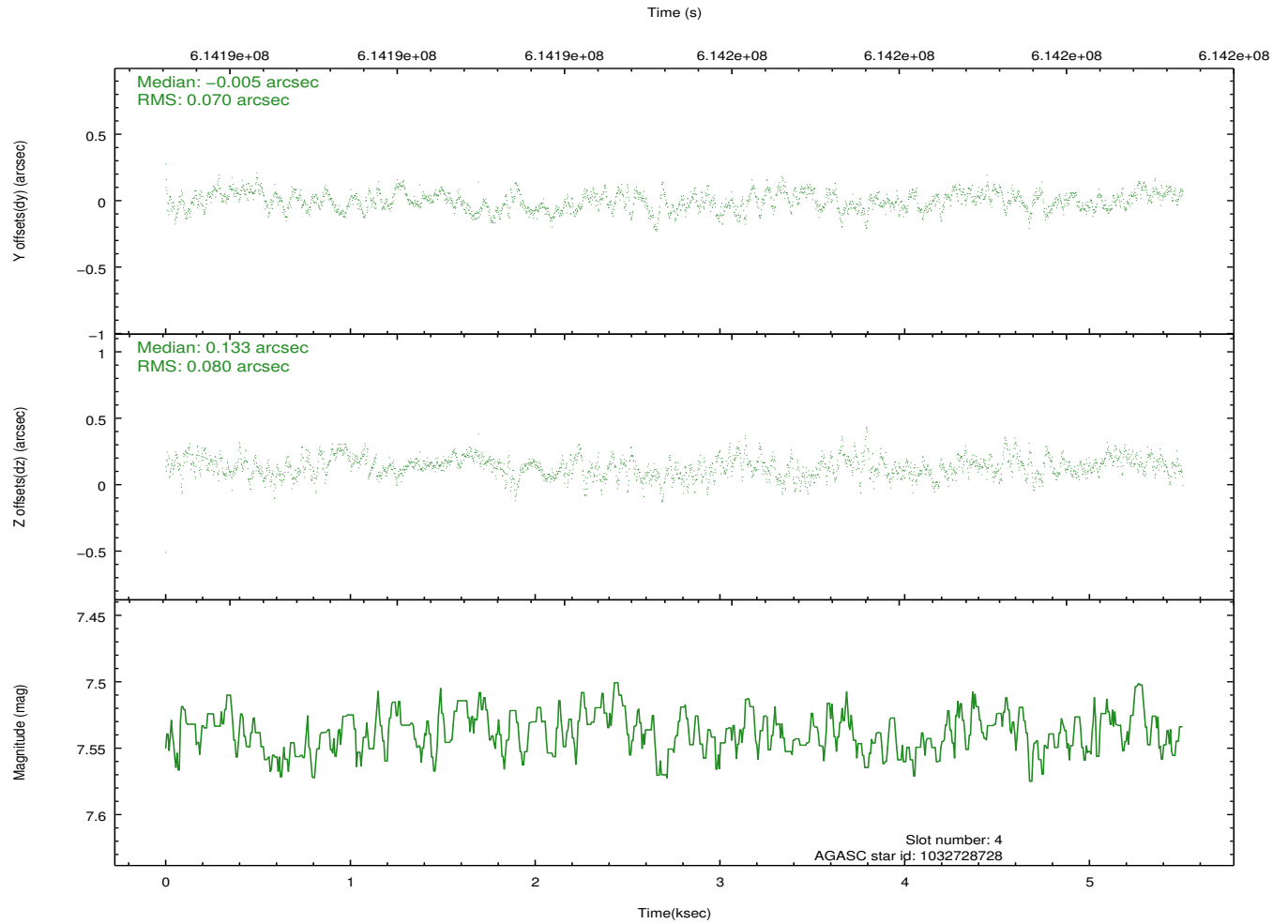
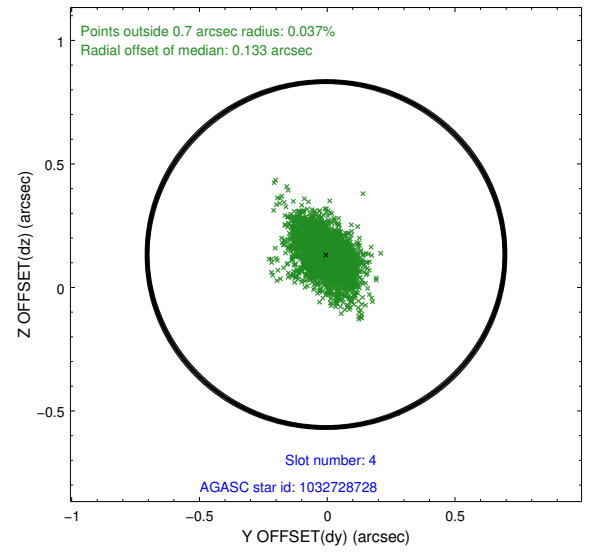
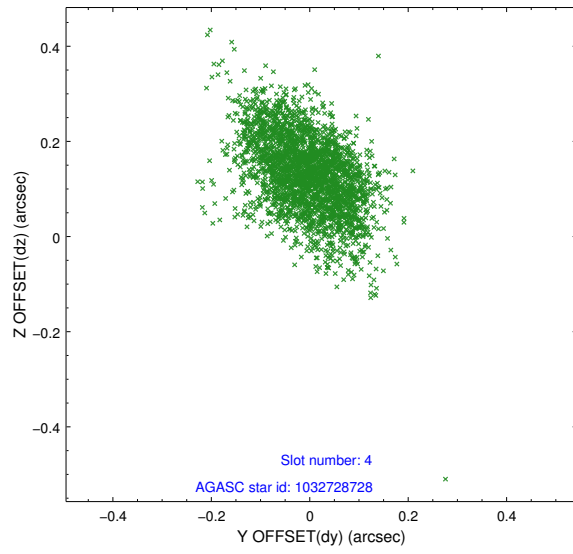
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	1344	-0.142	-0.036	0.009	0.013	0.000000	0.000000	-761.46	-1737.47
1	FID		ACIS-S-4	7.07	1344	0.372	0.079	0.008	0.015	0.000000	0.000000	2151.80	170.05
2	FID		ACIS-S-5	7.08	1343	-0.260	-0.034	0.009	0.016	0.000000	0.000000	-1813.05	164.78
3	GUIDE	used	1032728704	7.38	2687	-0.352	0.032	0.101	0.179	252.357257	-44.991366	341.40	1137.73
4	GUIDE	used	1032728728	7.54	2686	-0.005	0.133	0.110	0.183	252.061735	-44.936530	-390.90	874.98
5	GUIDE	used	1091305984	8.88	2687	0.042	-0.084	0.155	0.250	252.400993	-45.077745	608.81	943.78
6	GUIDE	used	1091315904	6.92	2686	0.217	-0.257	0.170	0.305	252.023077	-45.944918	1587.55	-2170.58
7	GUIDE	used	1032719032	7.81	2686	0.101	0.180	0.142	0.245	251.840841	-44.711949	-1313.51	1219.55

2.4 Star Slots

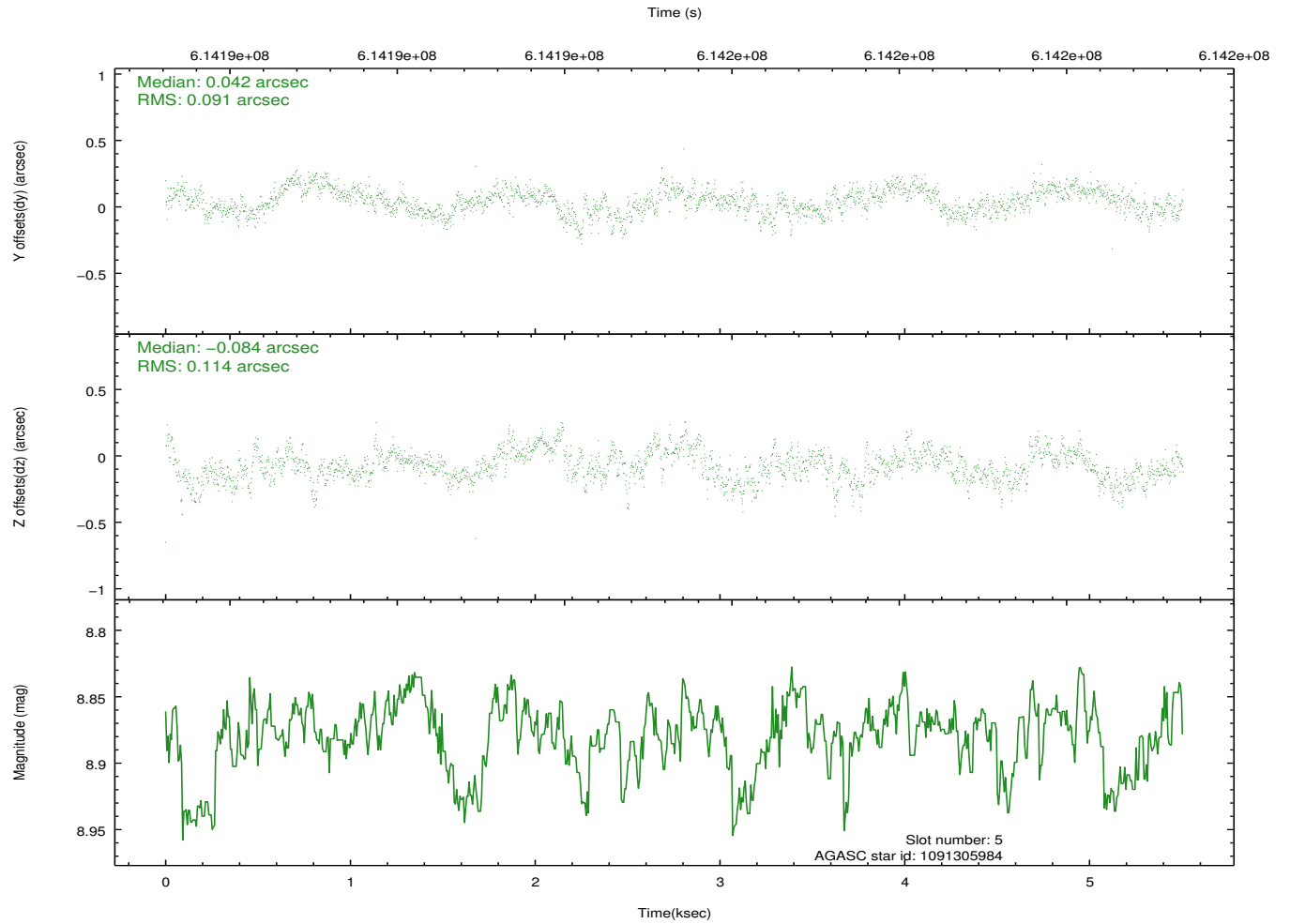
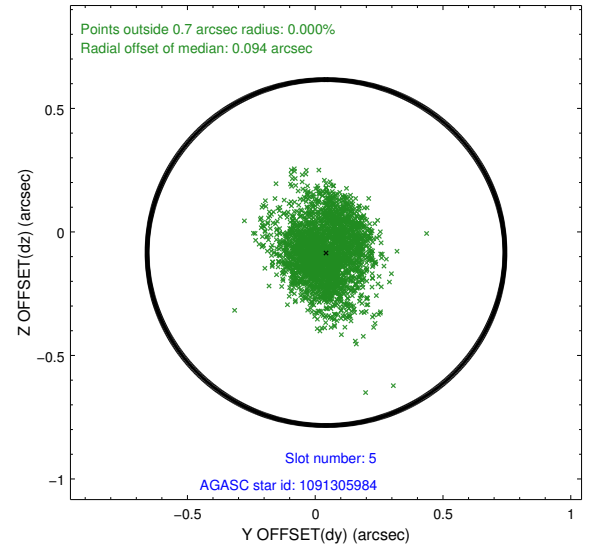
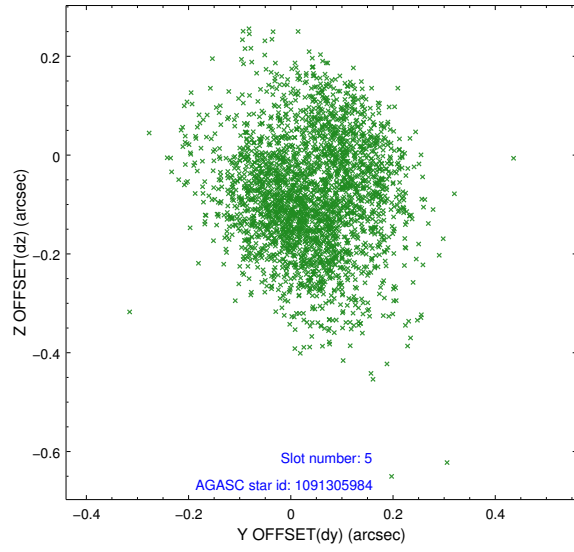
2.4.1 Slot 3



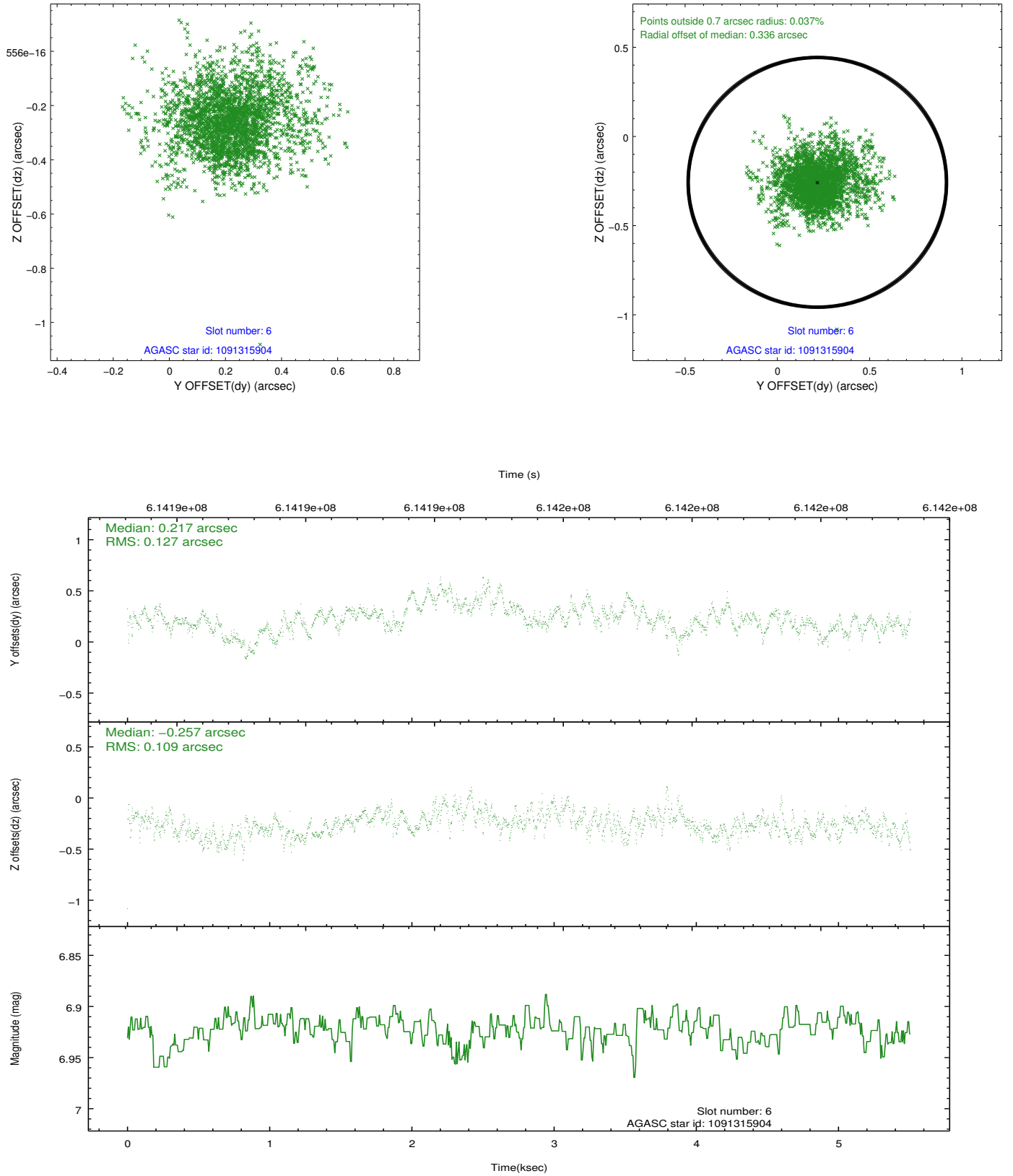
2.4.2 Slot 4



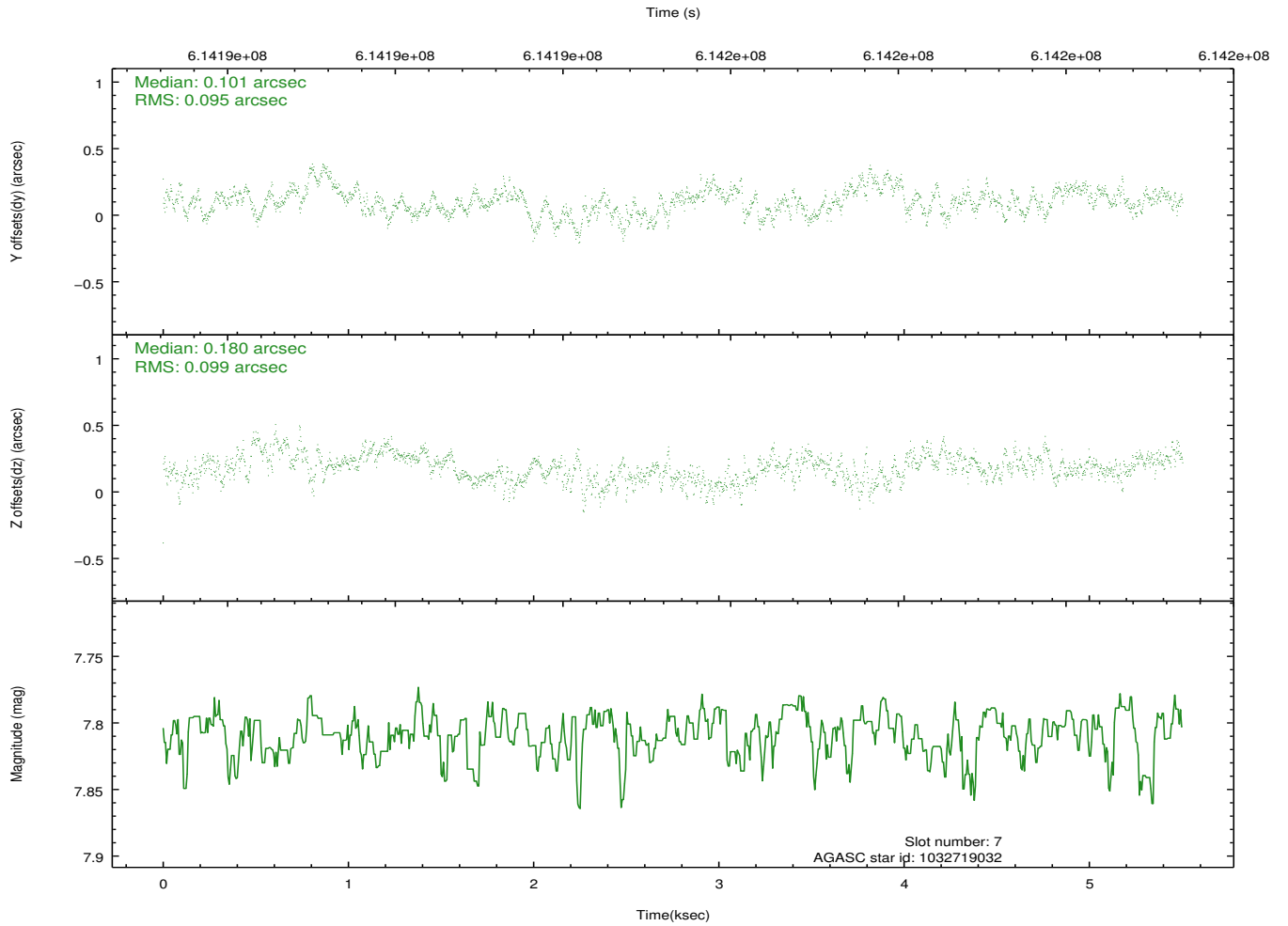
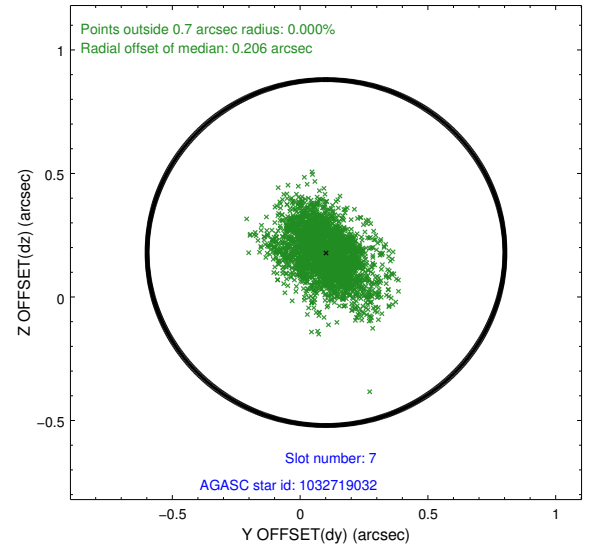
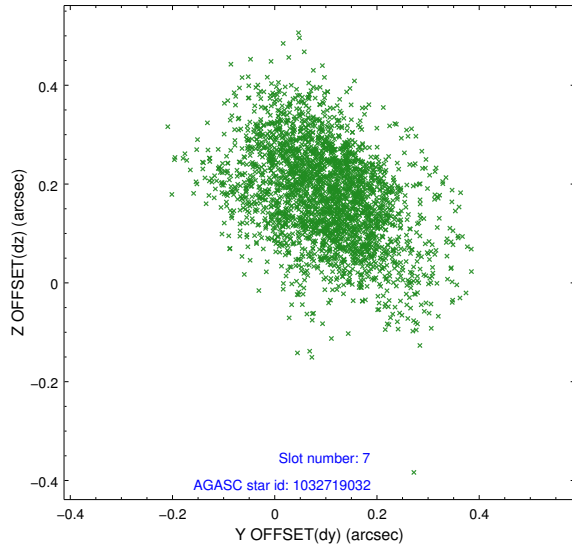
2.4.3 Slot 5



2.4.4 Slot 6

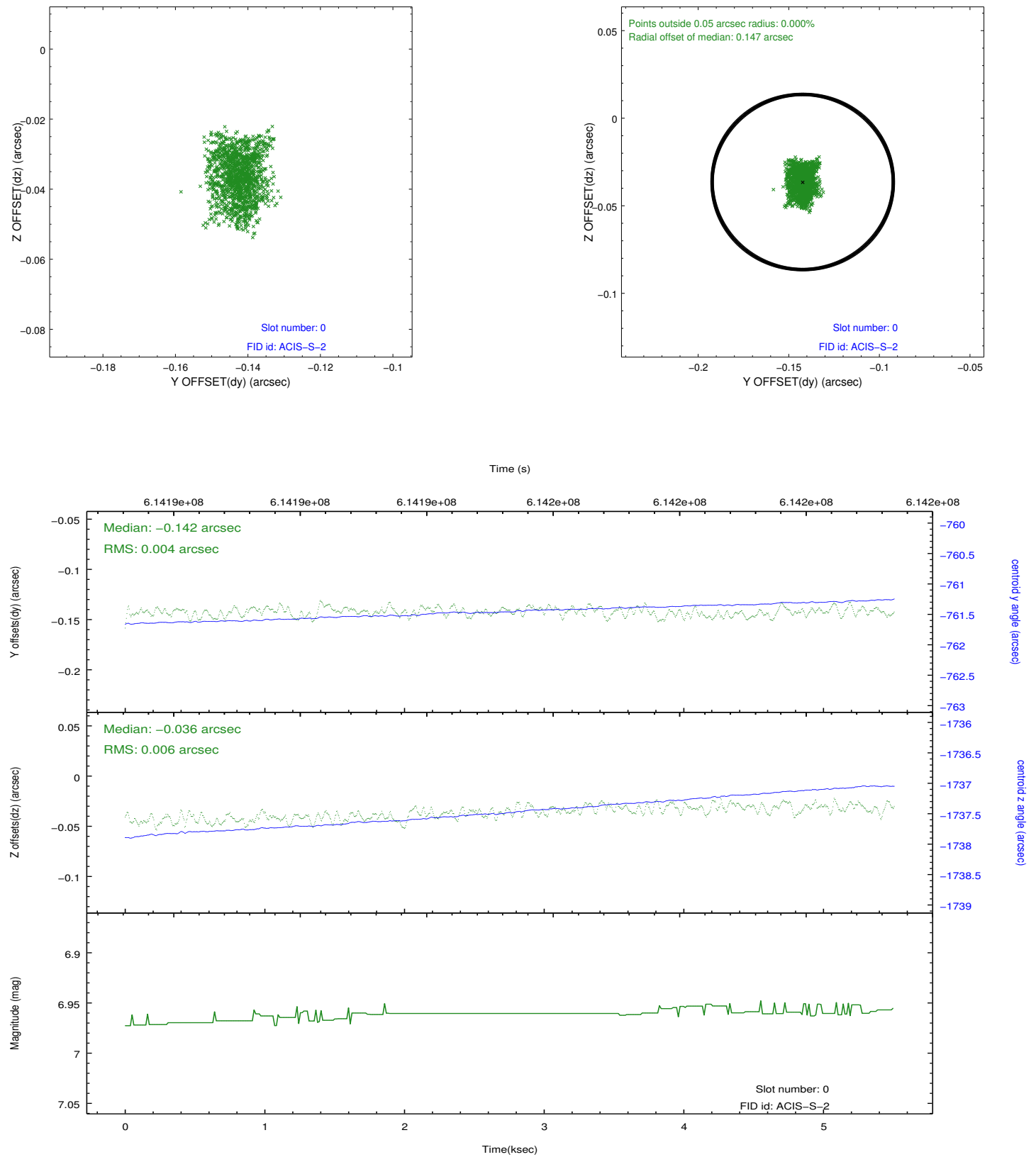


2.4.5 Slot 7

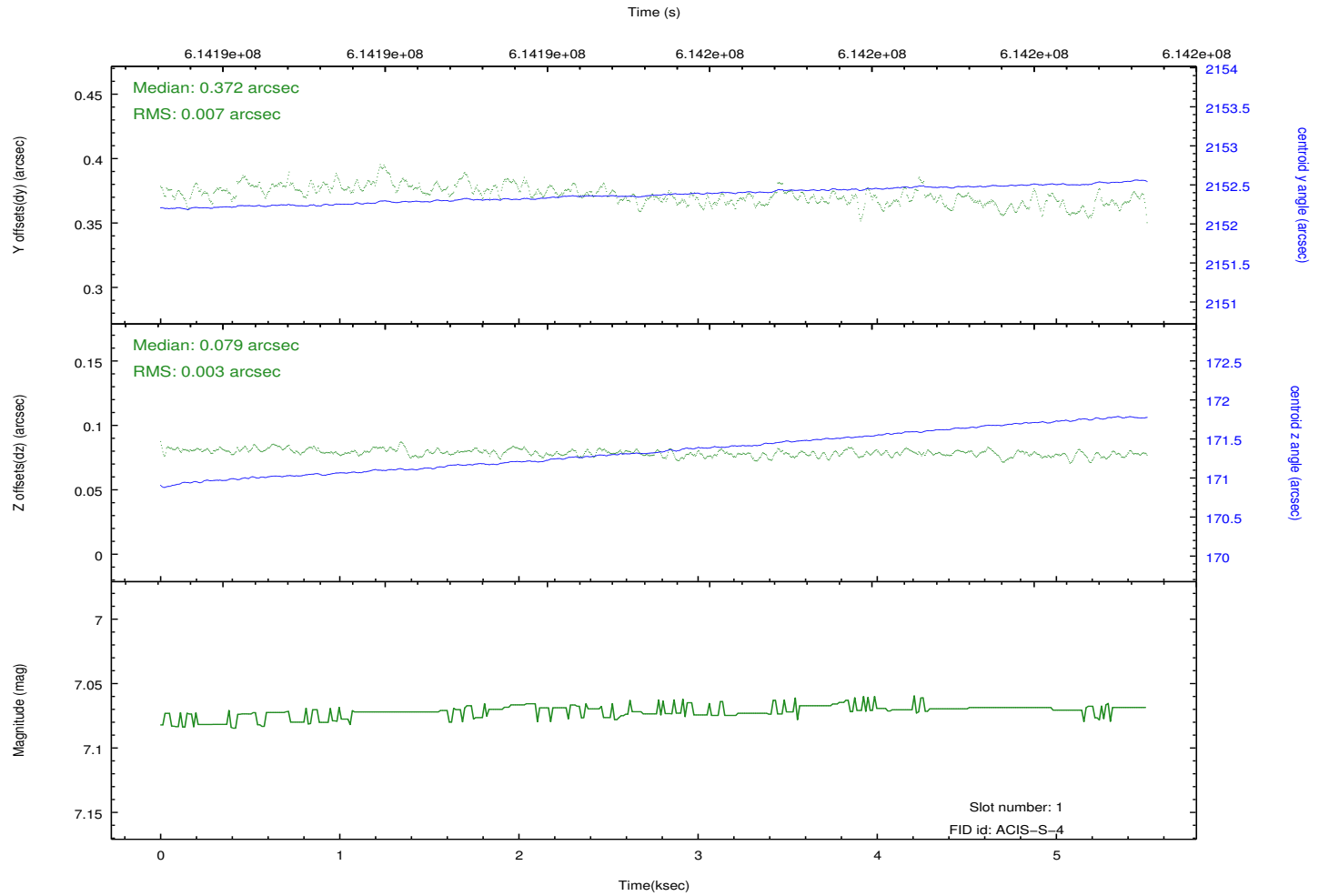
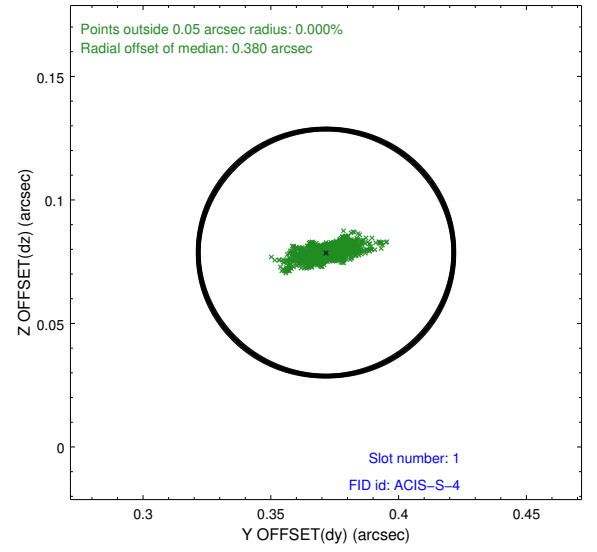
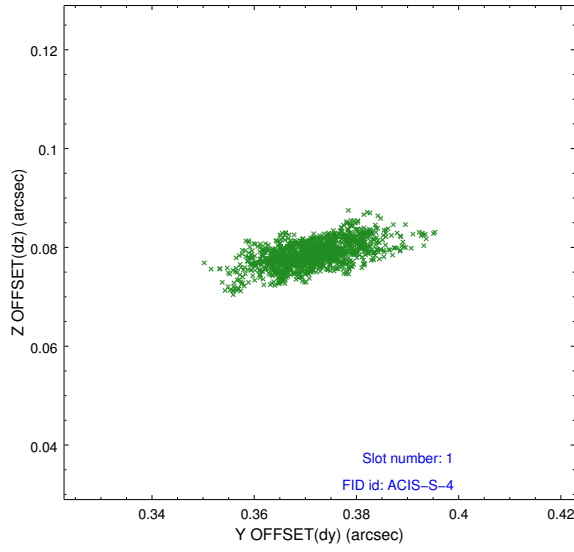


2.5 FID Slots

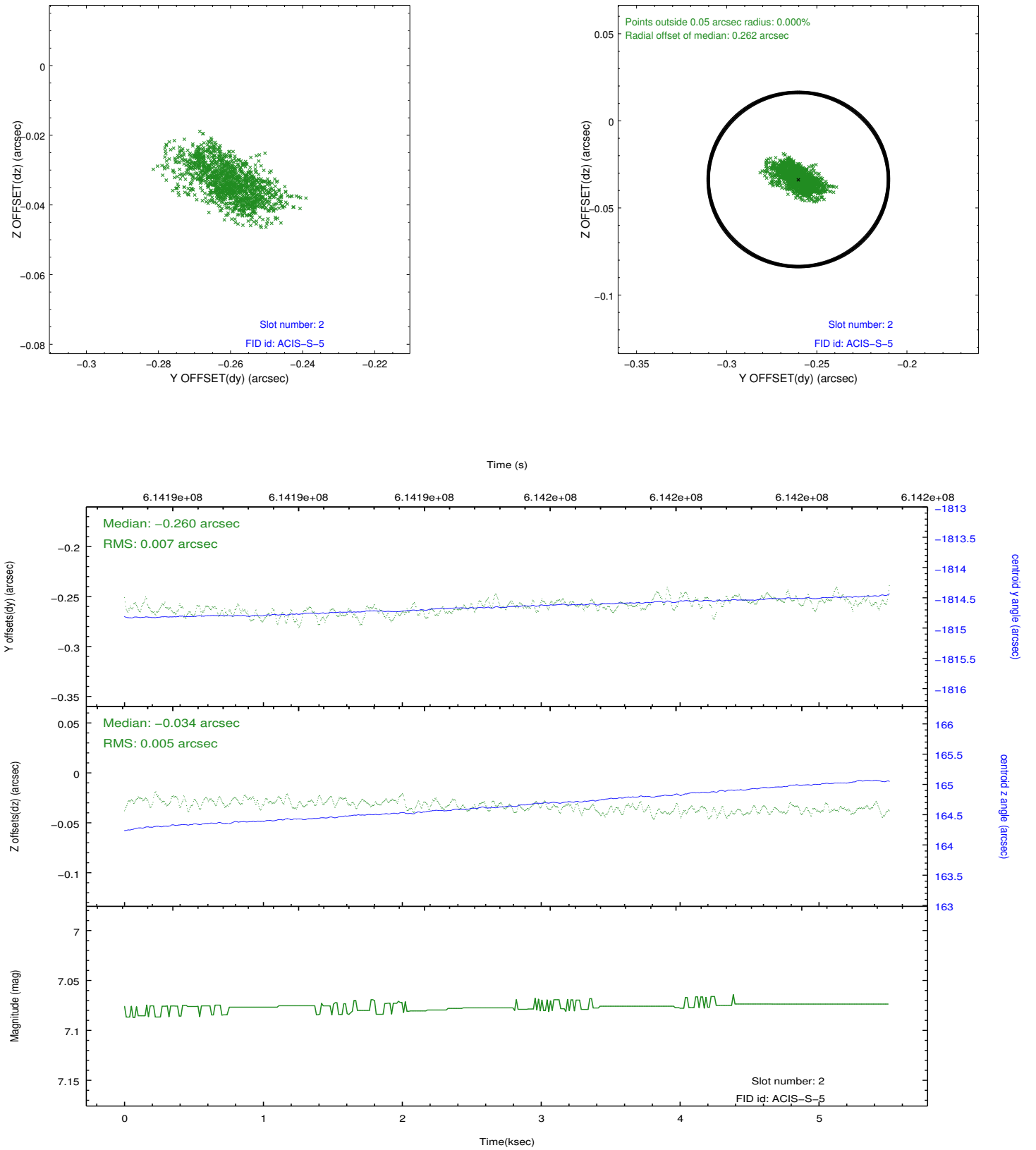
2.5.1 Slot 0



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)	2017.06.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0533003442287

A.2 Comments