

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18971 - L2 Version 1
Chandra X-Ray Center

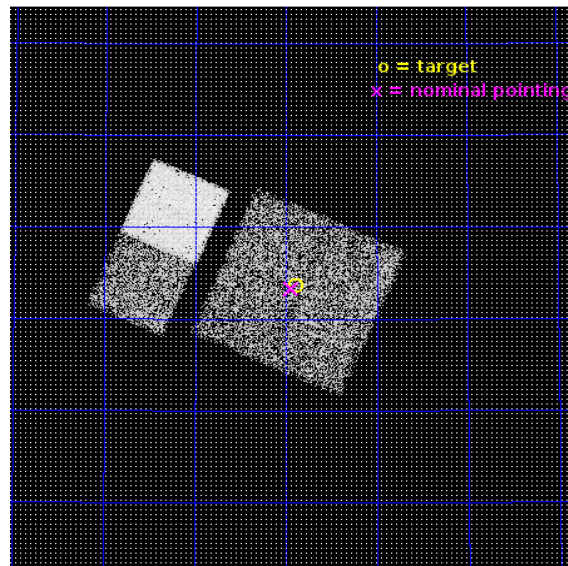
L2 Processing Date : Mar 20 2017

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1 Front

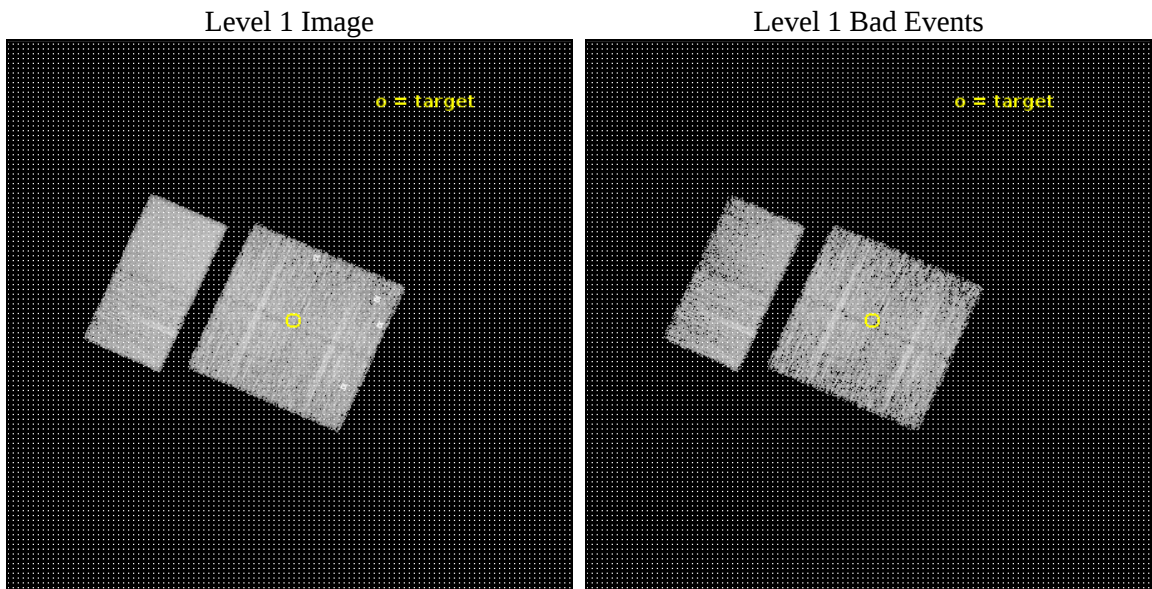
seq_num	401839	Sequence number
obs_id	18971	Observation id
title	The Nature of INTEGRAL Sources in the Galactic Plane	Proposal titl
observer	John Tomsick	Principal investigator
object	IGR J03599+5043	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	59.972917	Observer's specified target RA [deg]
dec_targ	50.728	Observer's specified target Dec [deg]
ra_nom	59.985149530578	Nominal RA [deg]
dec_nom	50.721829215996	Nominal Dec [deg]
roll_nom	293.98558809303	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5118.5243476629	Sum of GTIs [s]
livetime	5053.7105103675	Livetime [s]
ontime0	5118.4012277126	Sum of GTIs [s]
ontime1	5118.4422676563	Sum of GTIs [s]
ontime2	5115.2422473431	Sum of GTIs [s]
ontime3	5118.5243476629	Sum of GTIs [s]
ontime6	5118.6064276695	Sum of GTIs [s]
ontime7	5118.5653877258	Sum of GTIs [s]
l2events	37090	Number of level 2 events



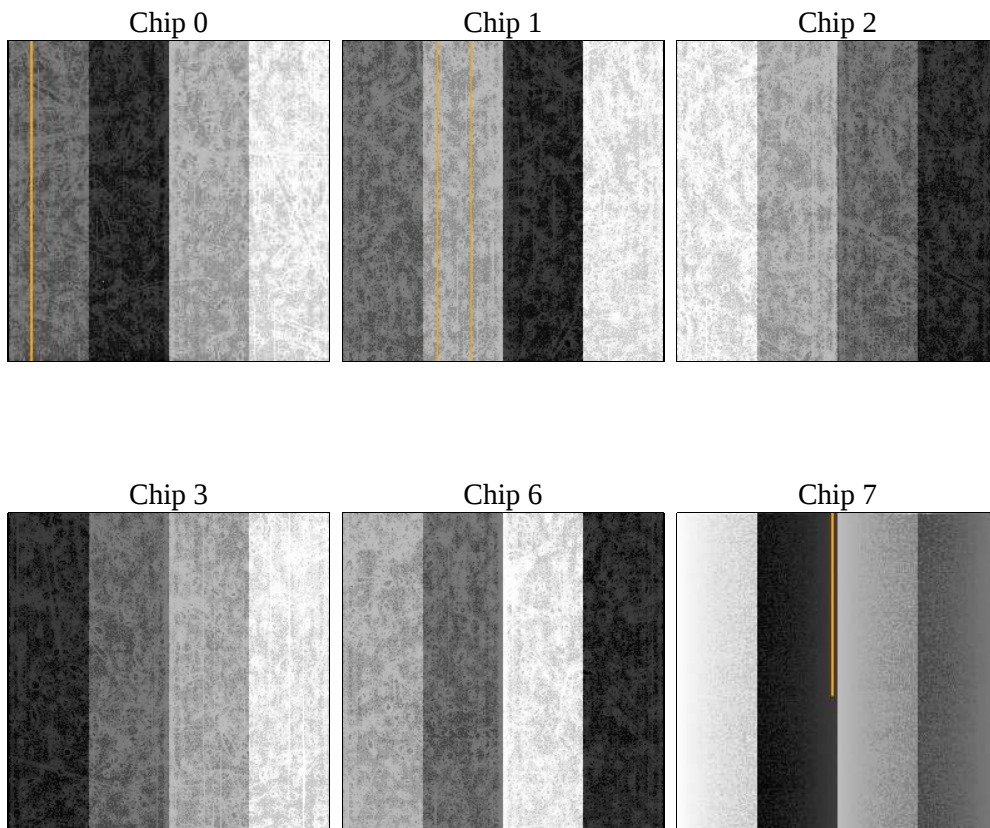
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5175.764000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	5118.5243476629	Sum of GTIs [s]
caldbver	4.7.3	 	ontime0	5118.4012277126	Sum of GTIs [s]
date	2017-03-20T16:21:29	Date and time of file creation	ontime1	5118.4422676563	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5115.2422473431	Sum of GTIs [s]
			ontime3	5118.5243476629	Sum of GTIs [s]
			ontime6	5118.6064276695	Sum of GTIs [s]
			ontime7	5118.5653877258	Sum of GTIs [s]
			l1events	241933	Number of level 1 events

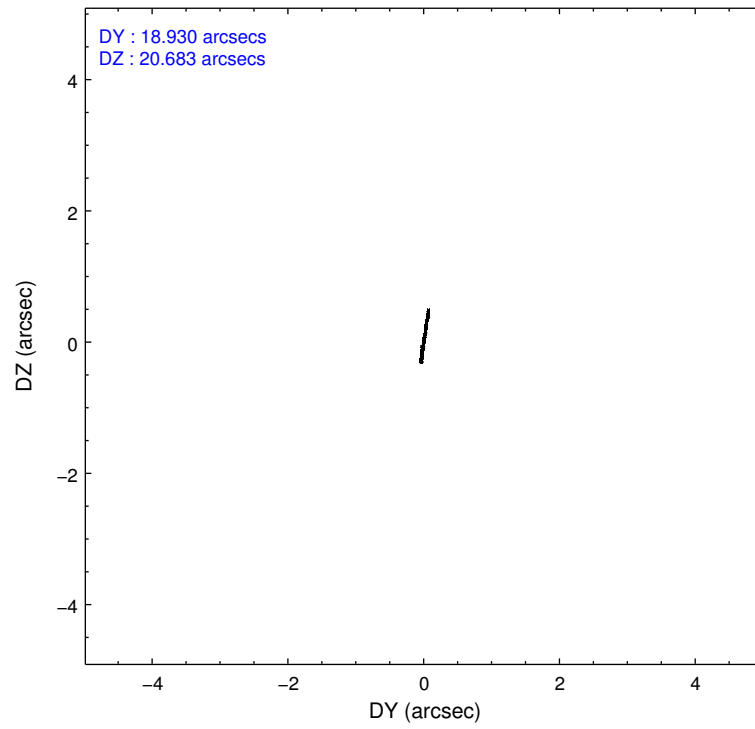
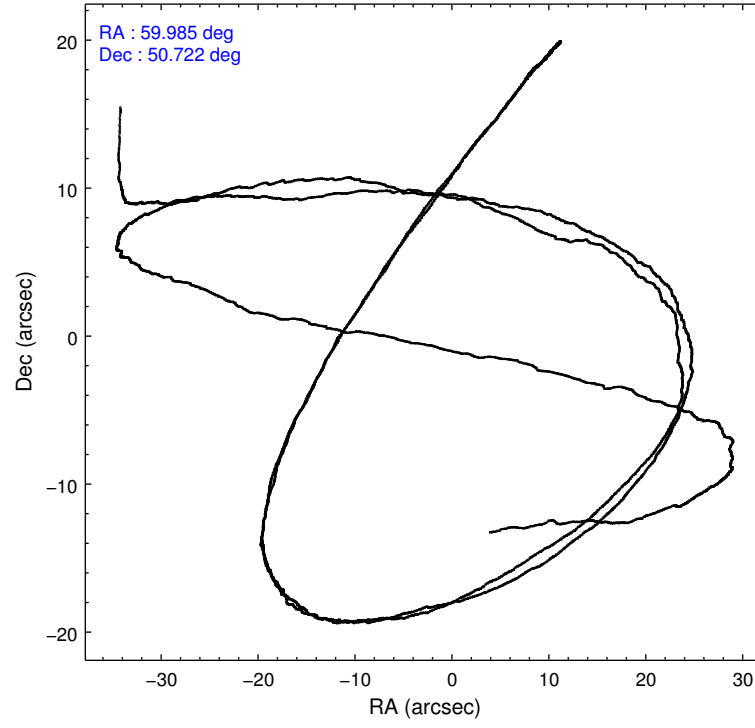
2.1.4 Events

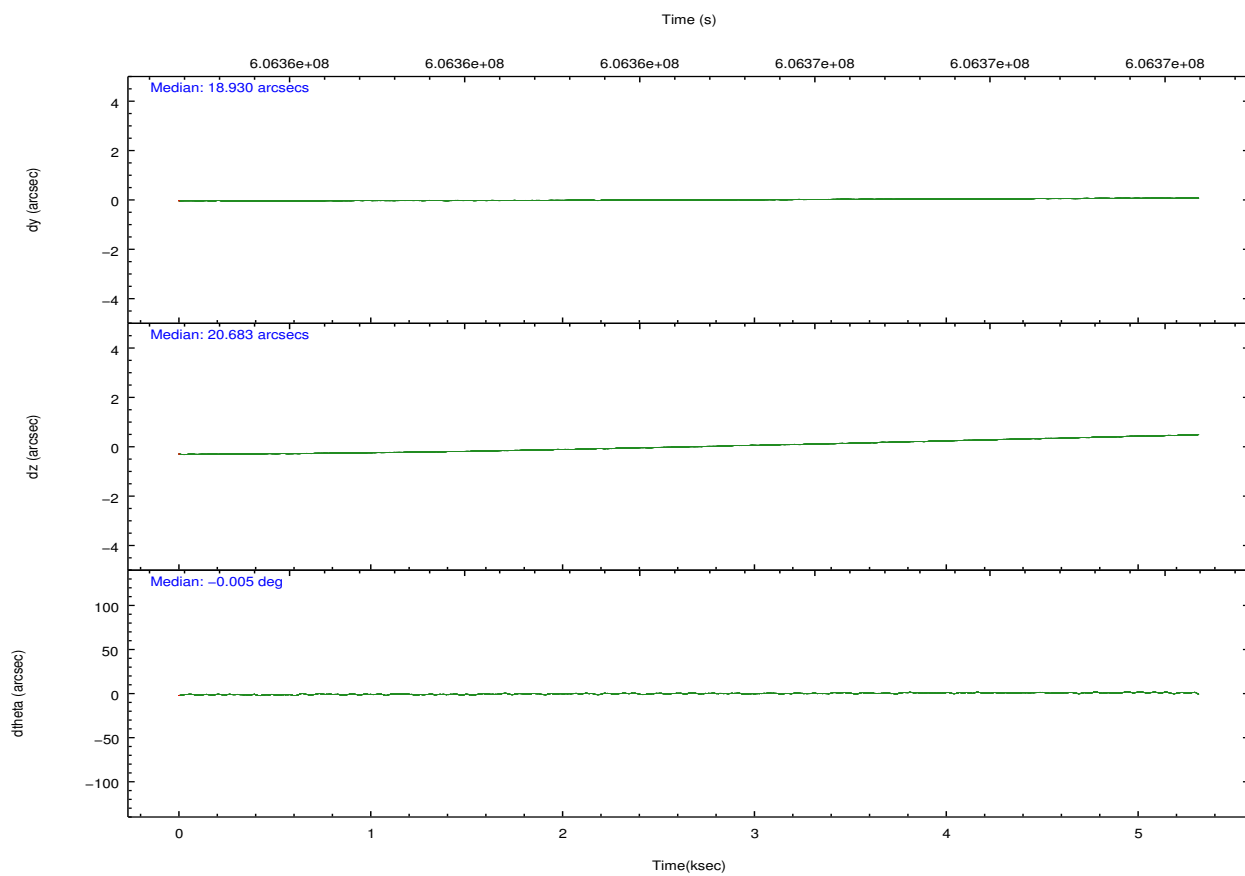
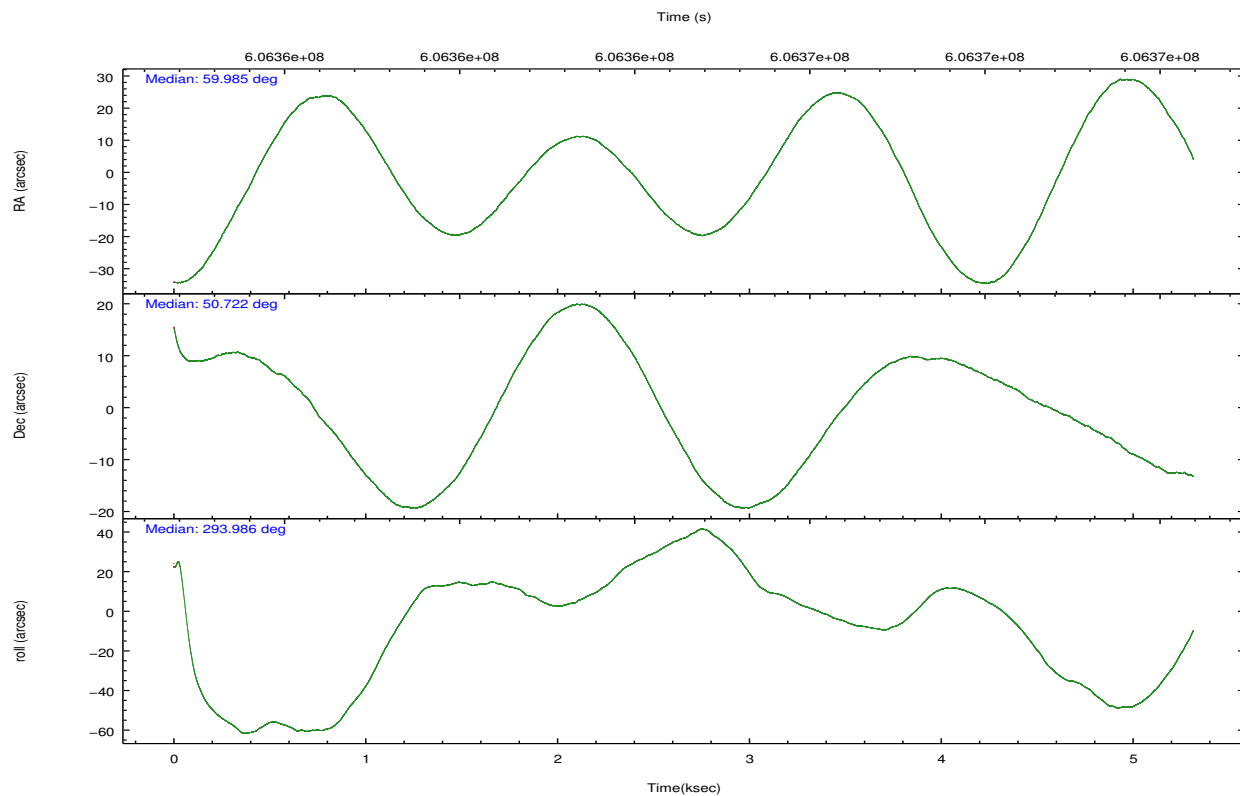
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	37365	38113	39067	39322	39712	48354	grade 0 events	2627	2875	1290	2442	1261	1640
rejected events	31978	30786	35287	34409	35547	27737		7%	7%	3%	6%	3%	3%
rejected %	85%	80%	90%	87%	89%	57%	grade 1 events	23	27	24	20	14	77
								0%	0%	0%	0%	0%	0%
							grade 2 events	1033	2592	895	864	1100	4360
								2%	6%	2%	2%	2%	9%
							grade 3 events	448	397	385	393	394	1504
								1%	1%	0%	0%	0%	3%
							grade 4 events	413	366	418	416	359	1473
								1%	0%	1%	1%	0%	3%
							grade 5 events	1501	1500	1318	1683	1679	4436
								4%	3%	3%	4%	4%	9%
							grade 6 events	870	1105	796	802	1058	11664
								2%	2%	2%	2%	2%	24%
							grade 7 events	30450	29251	33941	32702	33847	23200
								81%	76%	86%	83%	85%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	59.949475	59.98514953057766	CCD I2 on	Y	Y
[deg] Pointing Dec	50.737935	50.72182921599587	CCD I3 on	Y	Y
[deg] Pointing Roll	293.804405	293.9855880930337	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	606362743.184000	606361671.76674	CCD S5 on	N	N
Observation start date	2017-03-20T02:04:34	2017-03-20T01:47:51	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	606367919.184000	606368157.9671201	On-chip summing requested	N	N
Observation end date	2017-03-20T03:30:50	2017-03-20T03:35:57	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



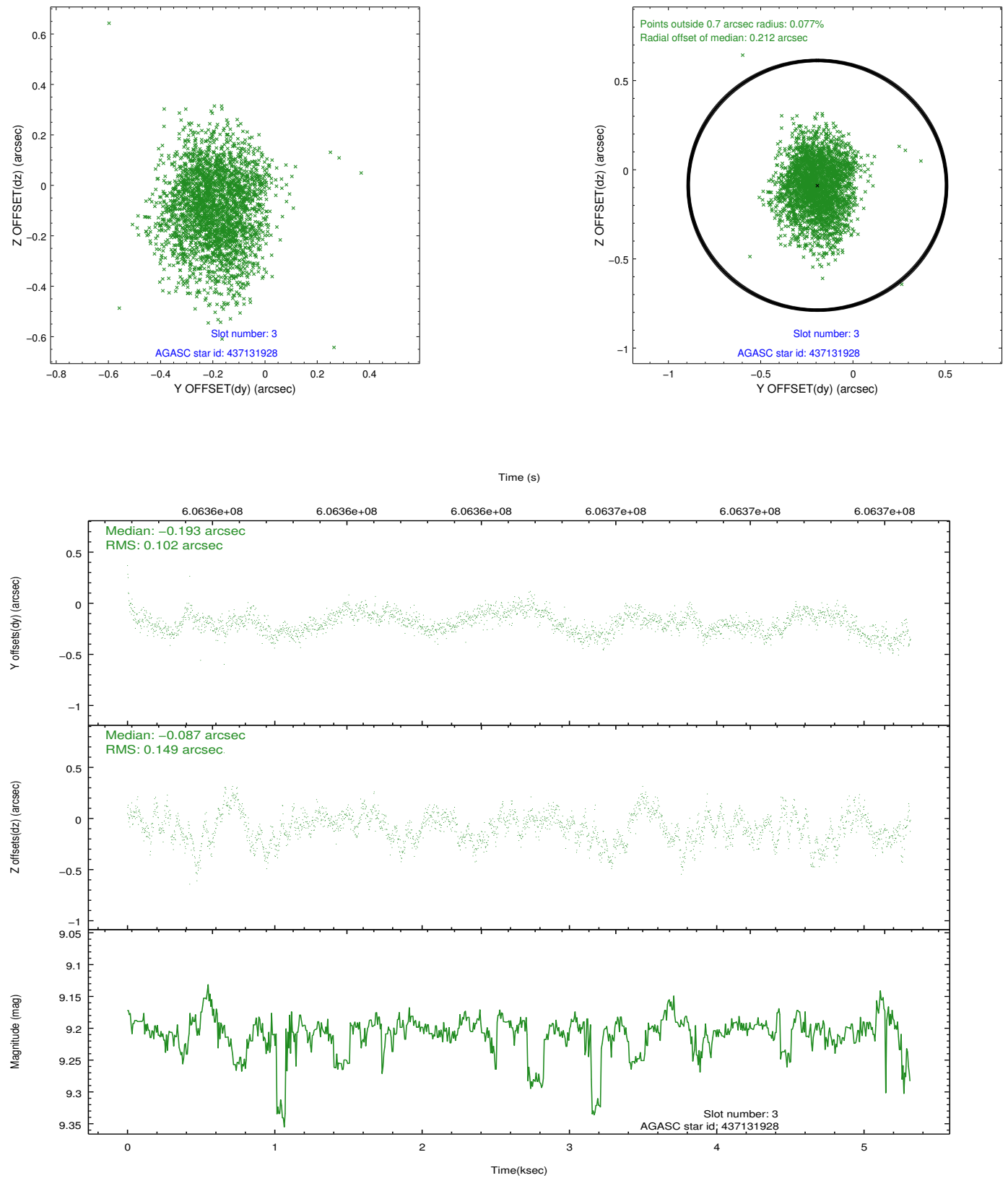


Slot Statistics

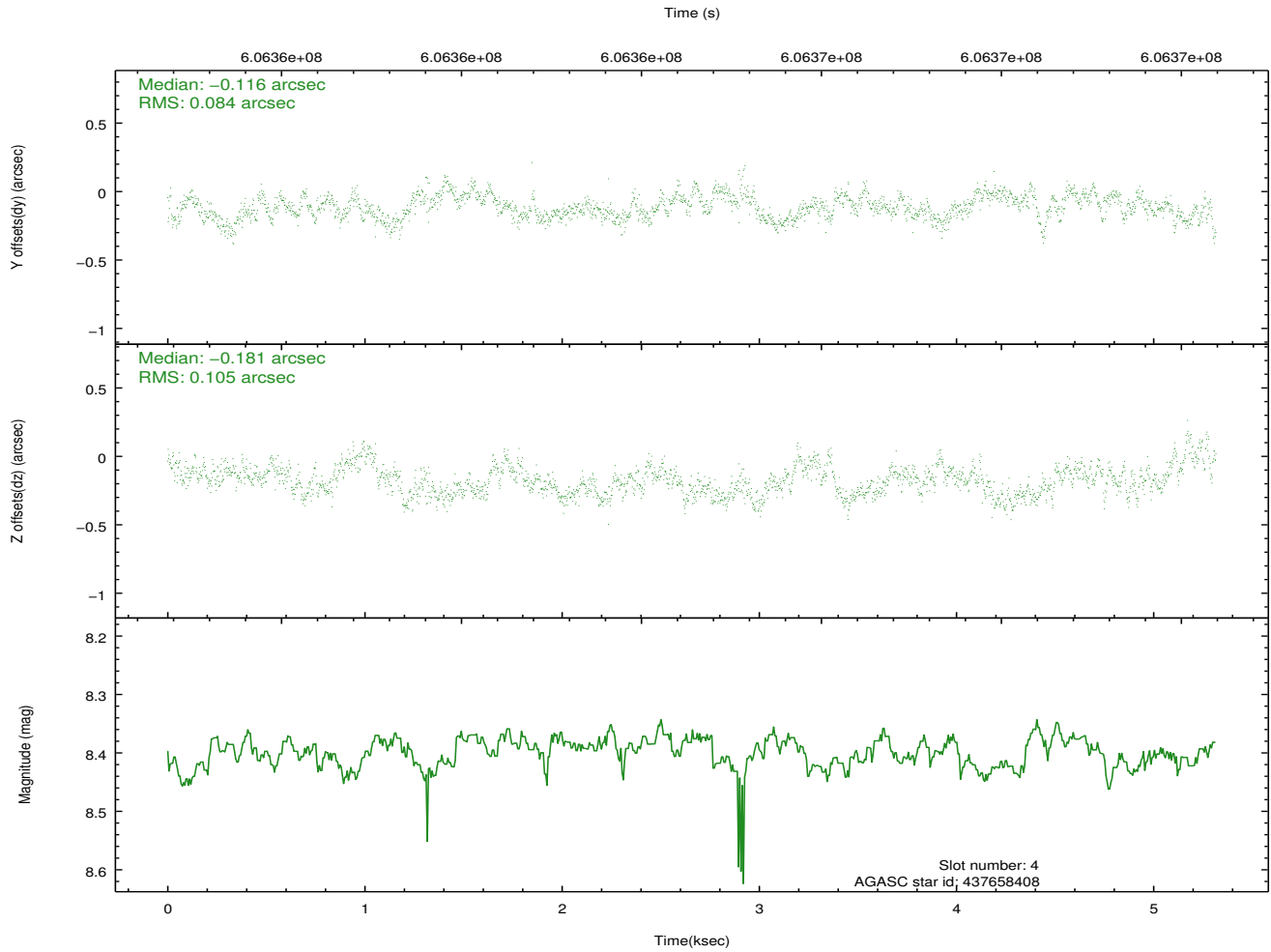
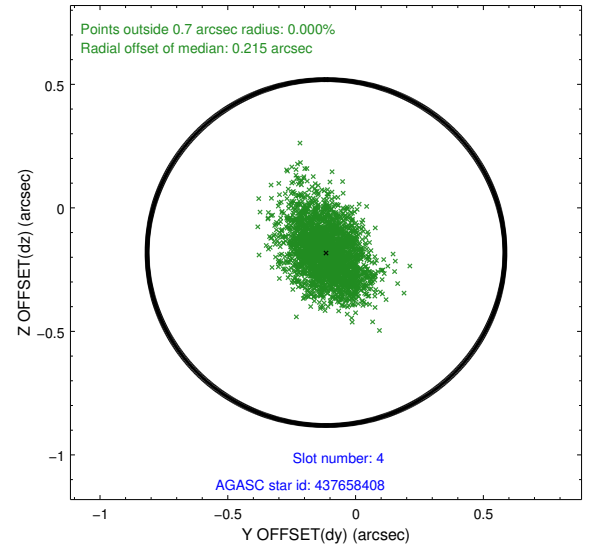
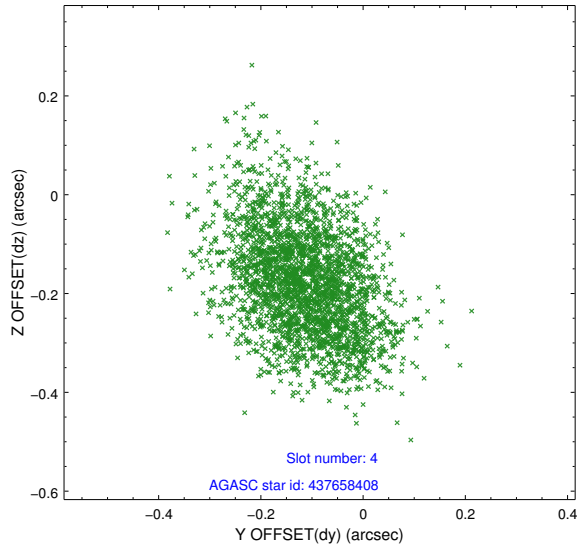
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.27	1297	0.083	-0.091	0.012	0.020	0.000000	0.000000	920.54	-844.51
1	FID		ACIS-I-5	7.26	1297	-0.400	0.019	0.009	0.015	0.000000	0.000000	-1827.52	1052.39
2	FID		ACIS-I-6	7.27	1297	0.226	0.141	0.009	0.013	0.000000	0.000000	384.86	1698.41
3	GUIDE	used	437131928	9.20	2594	-0.193	-0.087	0.189	0.310	60.784091	50.604812	1198.49	1555.09
4	GUIDE	used	437658408	8.40	2592	-0.116	-0.181	0.143	0.232	60.458231	50.638200	794.61	919.40
5	GUIDE	used	437659264	9.79	2585	0.361	0.640	0.287	0.494	59.301231	51.066311	-1678.70	-861.76
6	GUIDE	used	437655288	9.06	2592	-0.103	-0.139	0.163	0.259	60.170564	51.206061	-1340.94	1136.29
7	GUIDE	used	437655008	9.49	2592	0.045	-0.223	0.203	0.330	60.174313	51.250116	-1483.76	1207.61

2.4 Star Slots

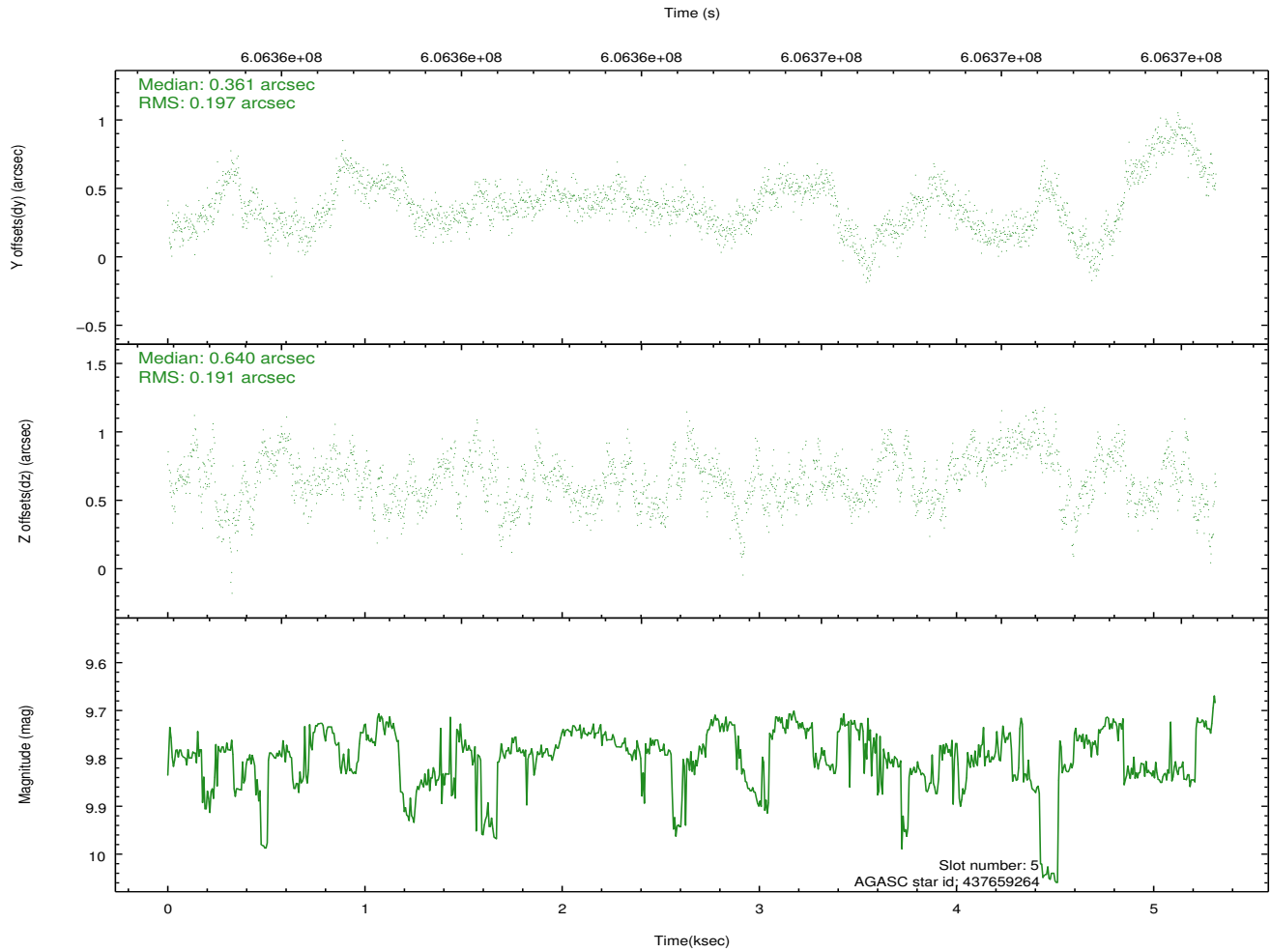
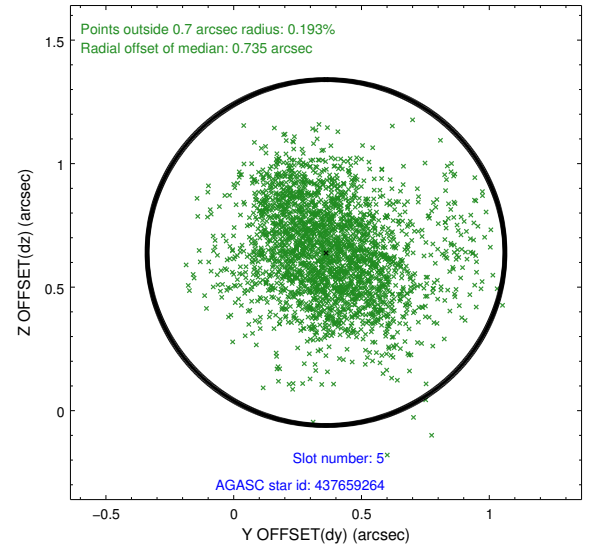
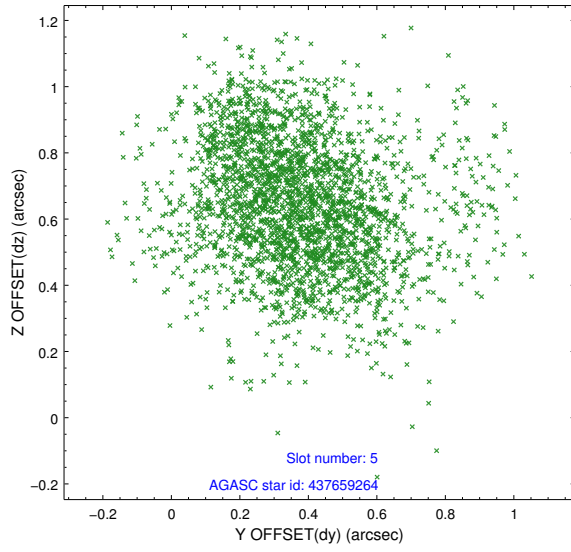
2.4.1 Slot 3



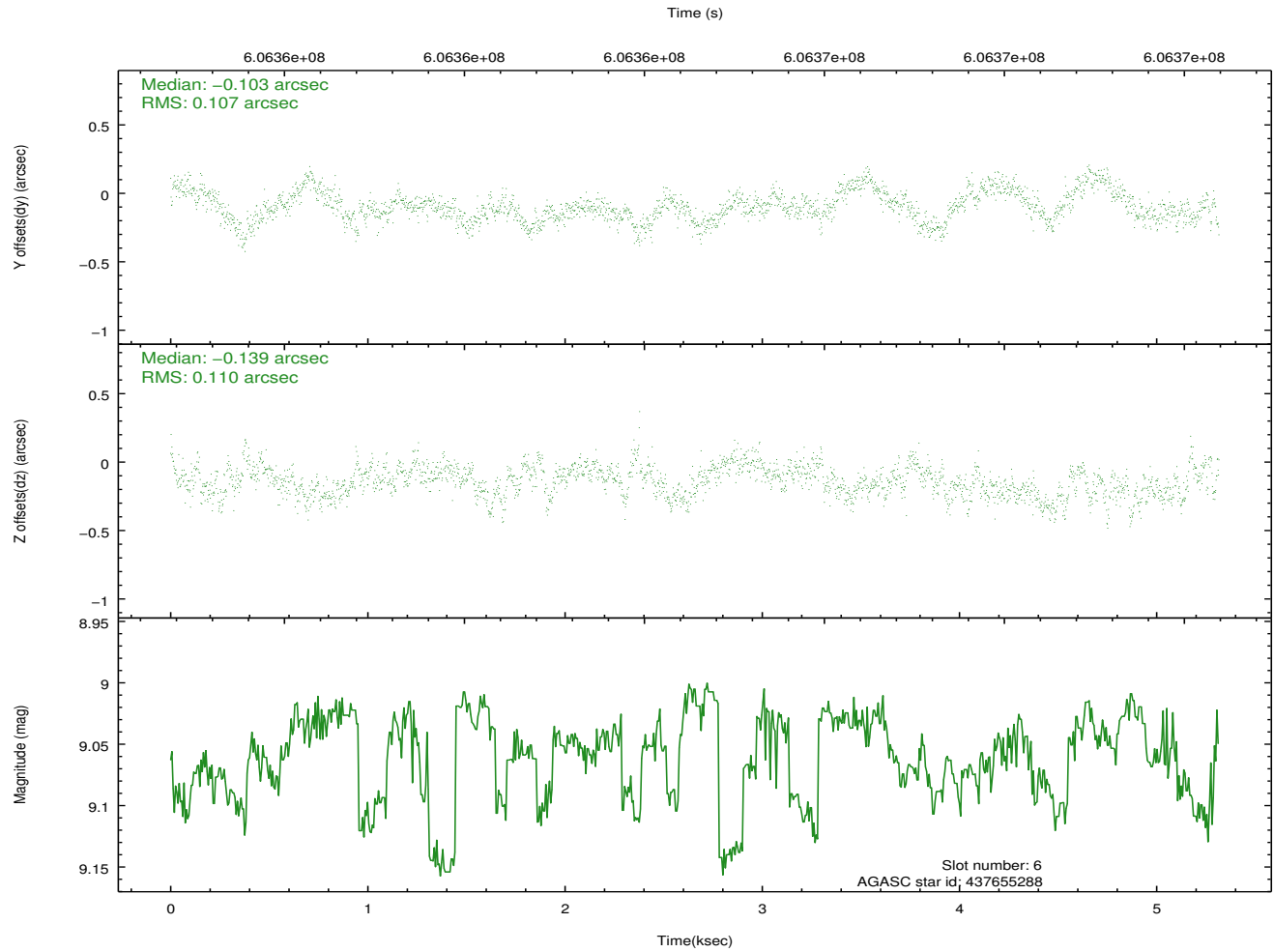
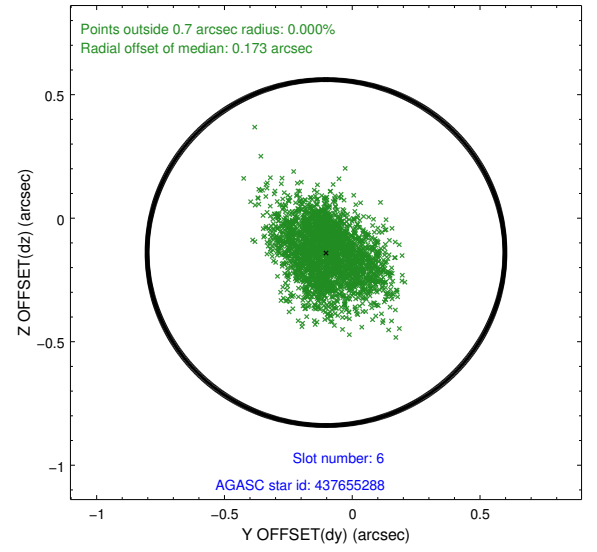
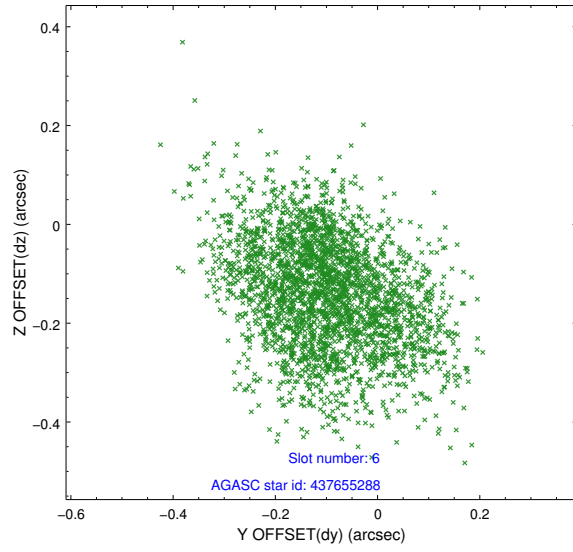
2.4.2 Slot 4



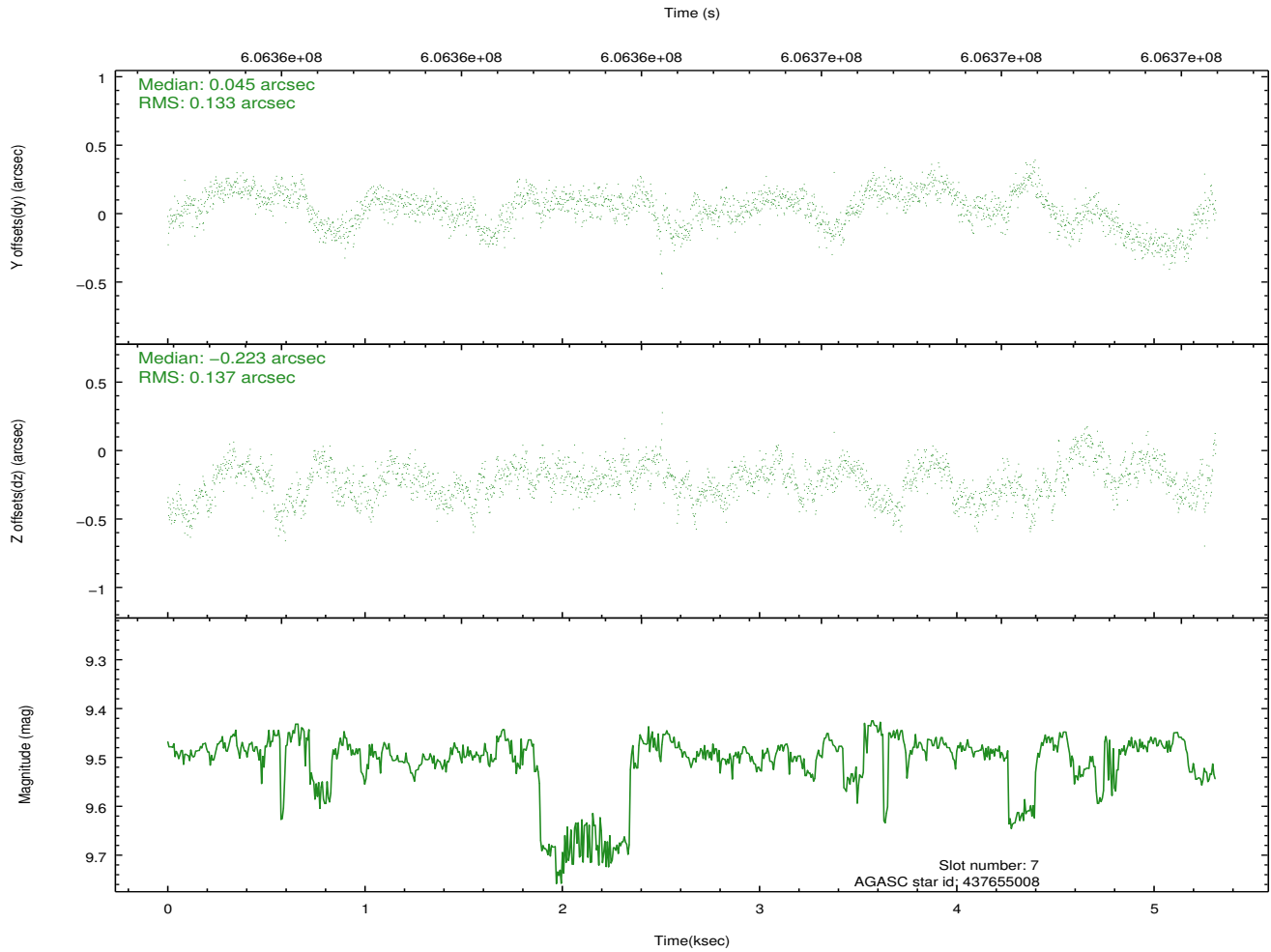
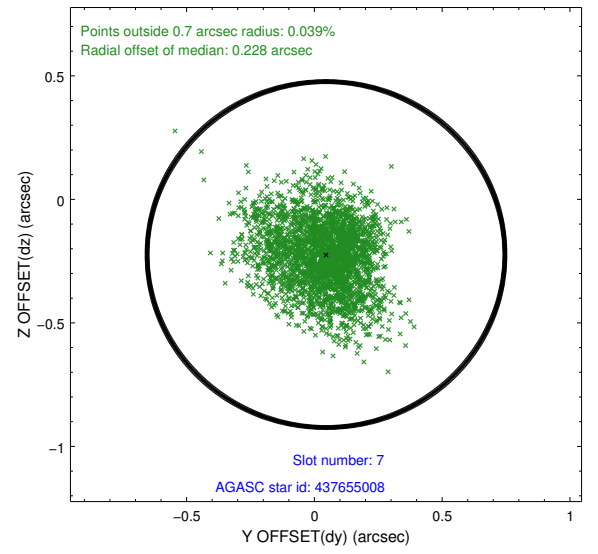
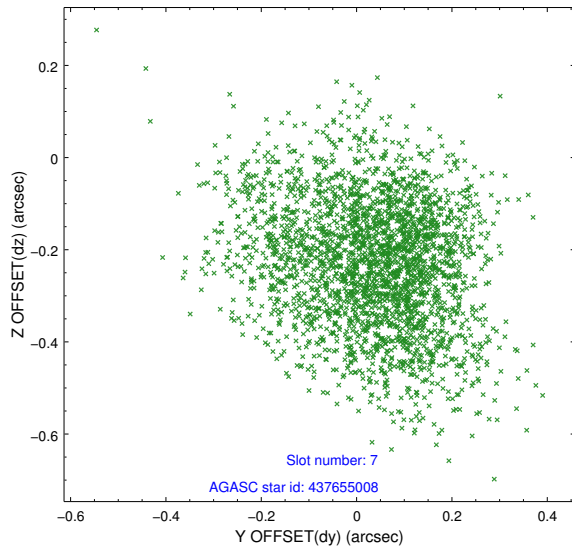
2.4.3 Slot 5



2.4.4 Slot 6

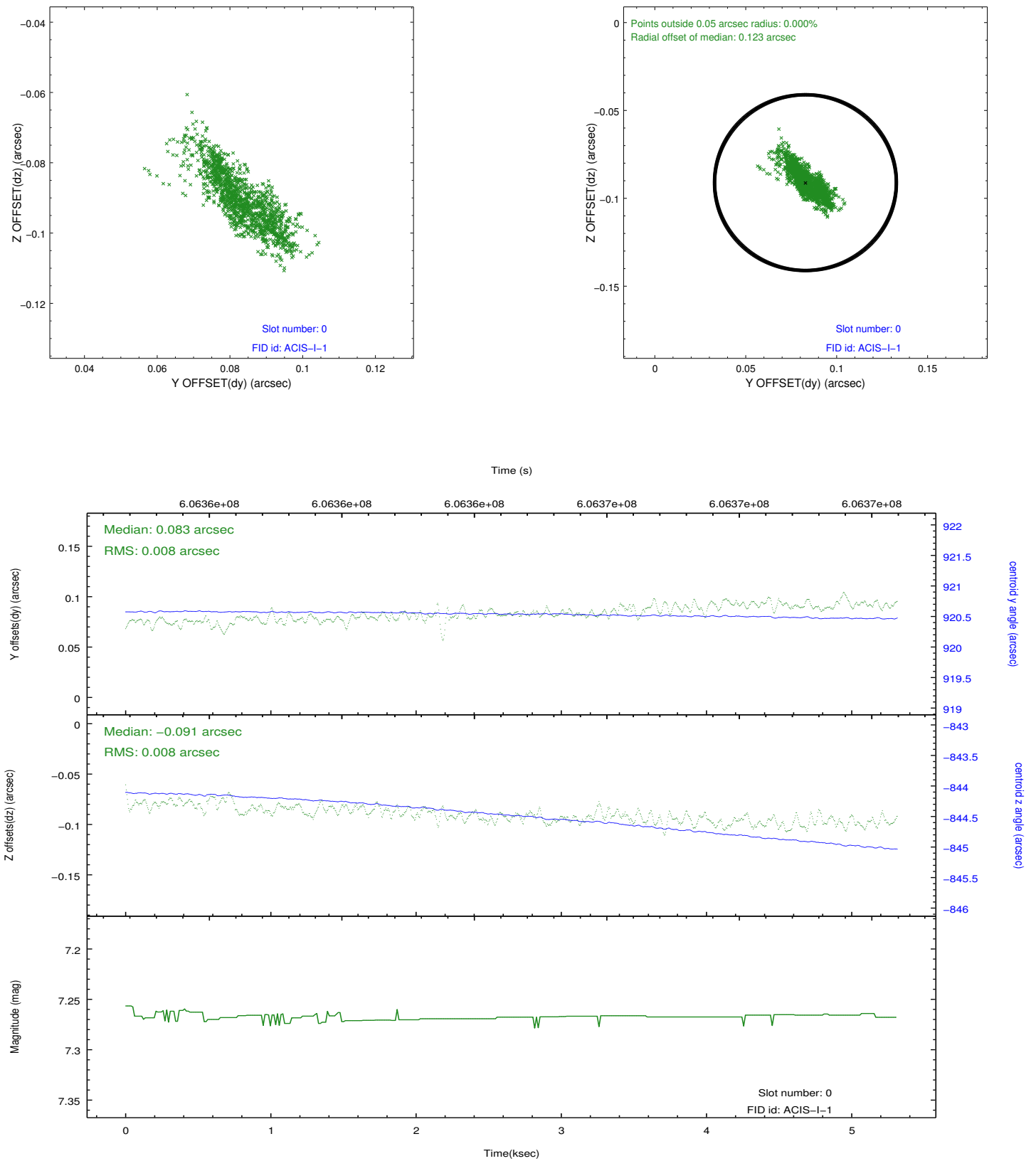


2.4.5 Slot 7

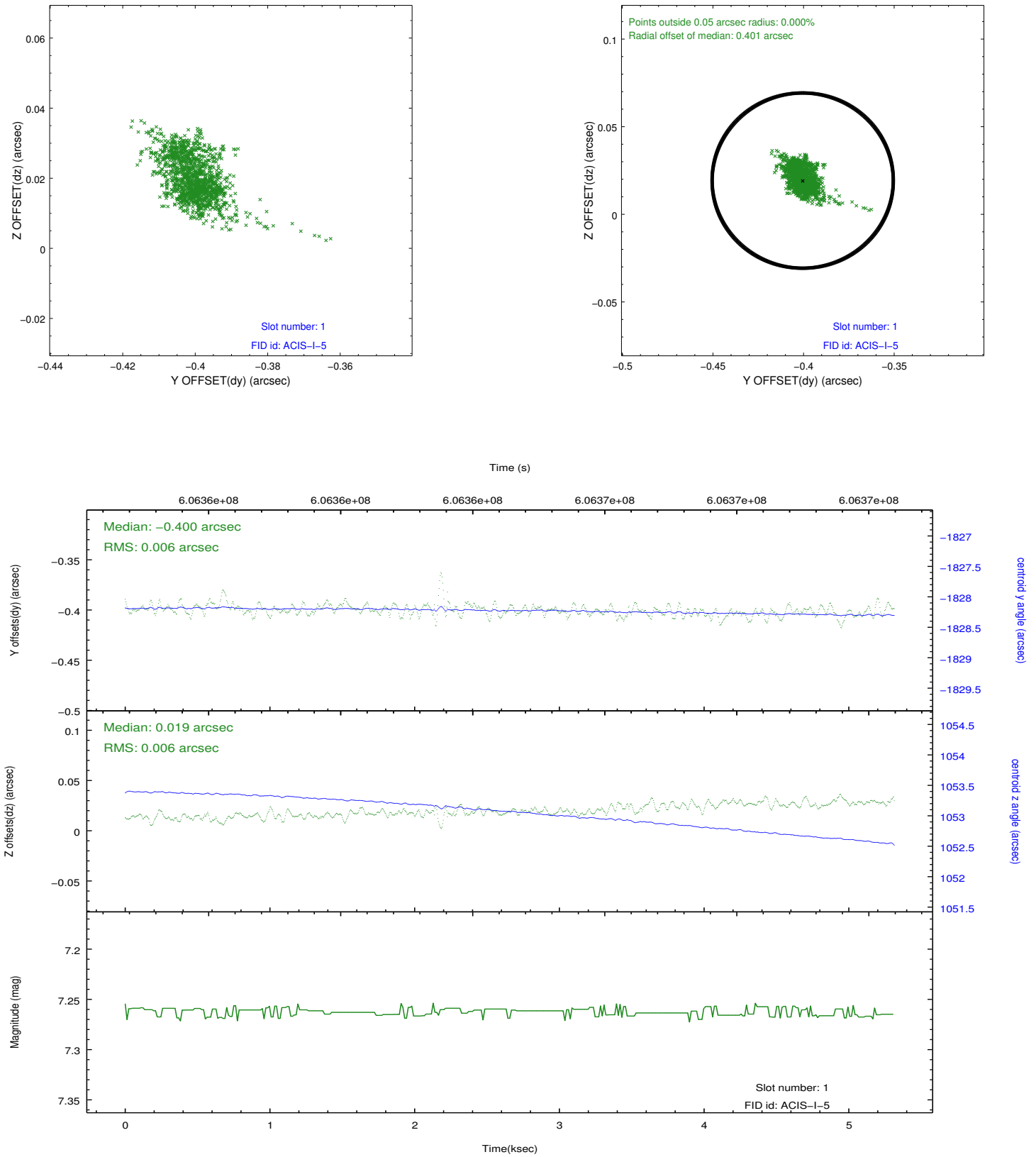


2.5 FID Slots

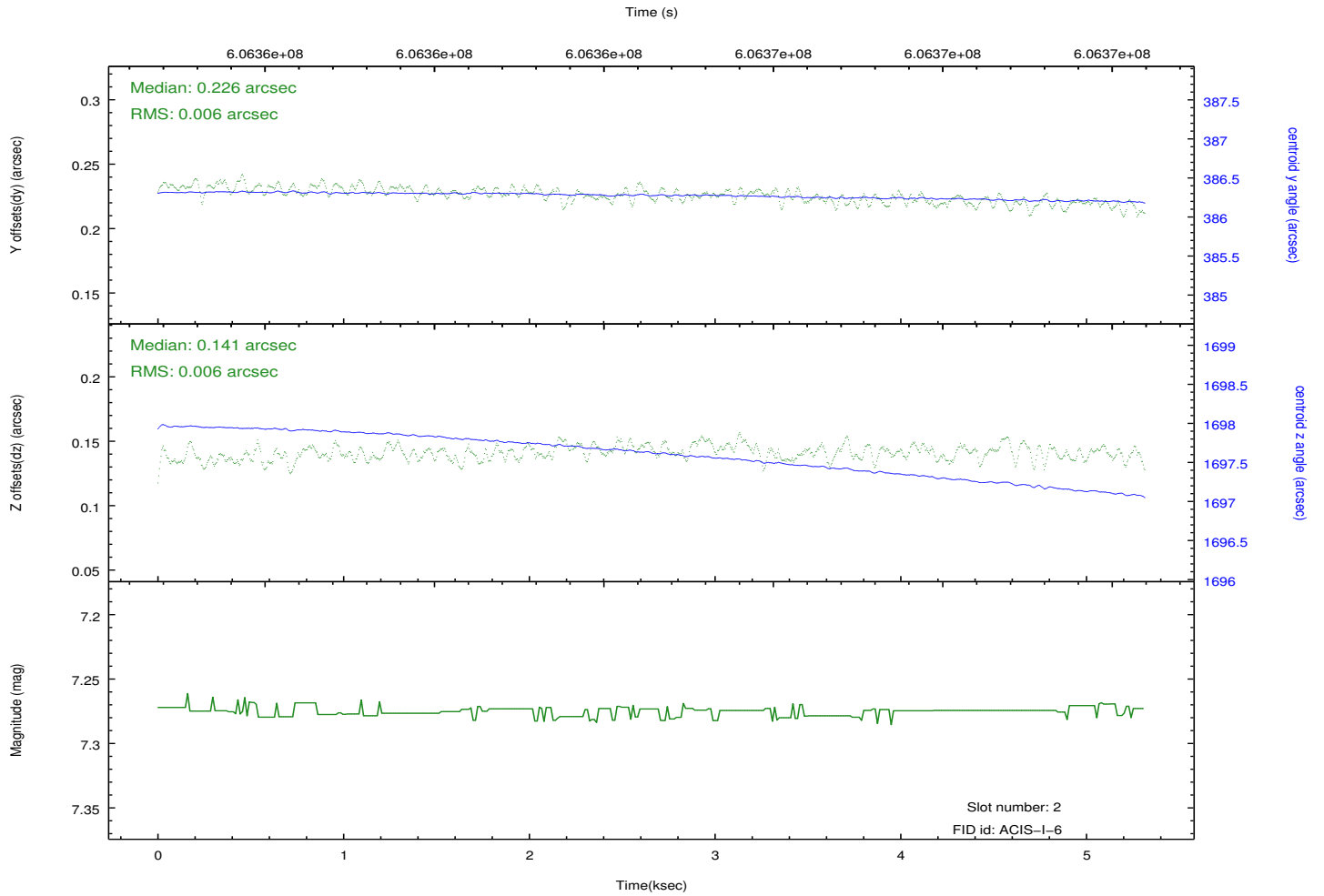
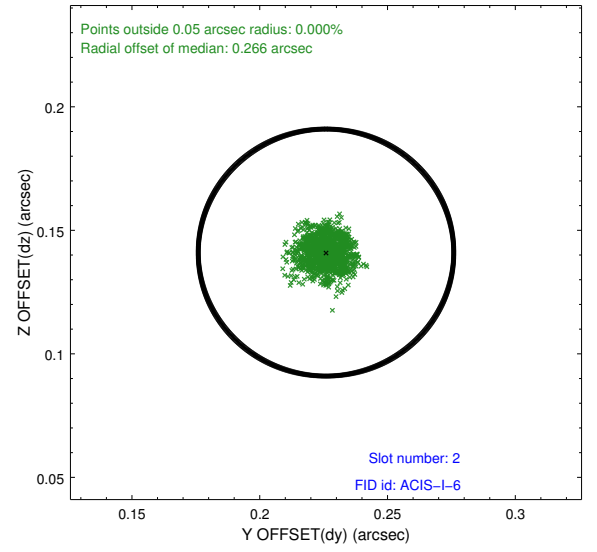
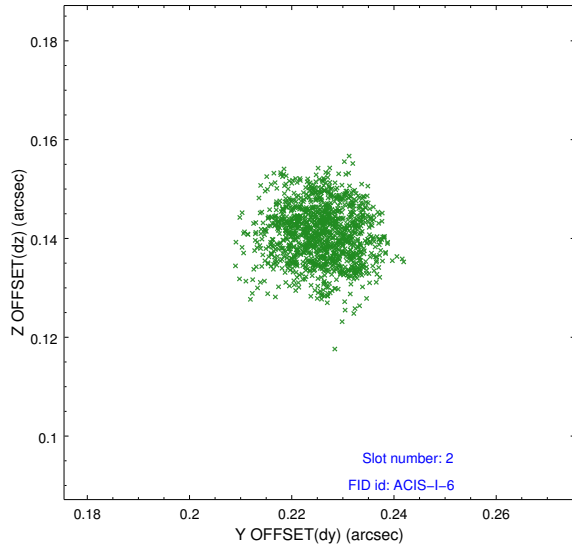
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.03.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1185243476629

A.2 Comments