

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 16132 - L2 Version 2
Chandra X-Ray Center

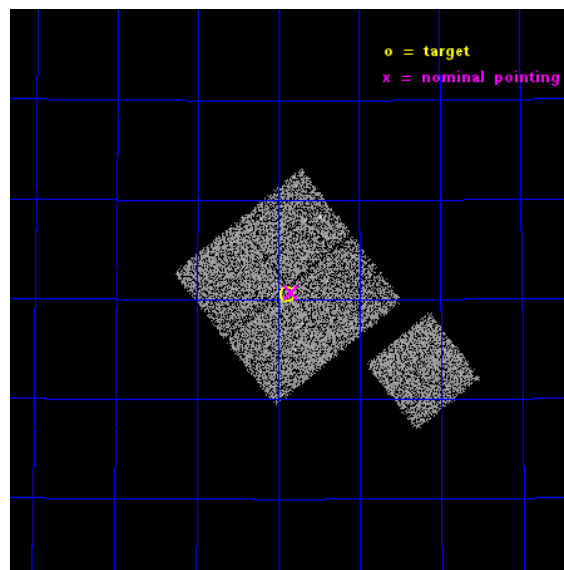
L2 Processing Date : Dec 8 2014

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1 Front

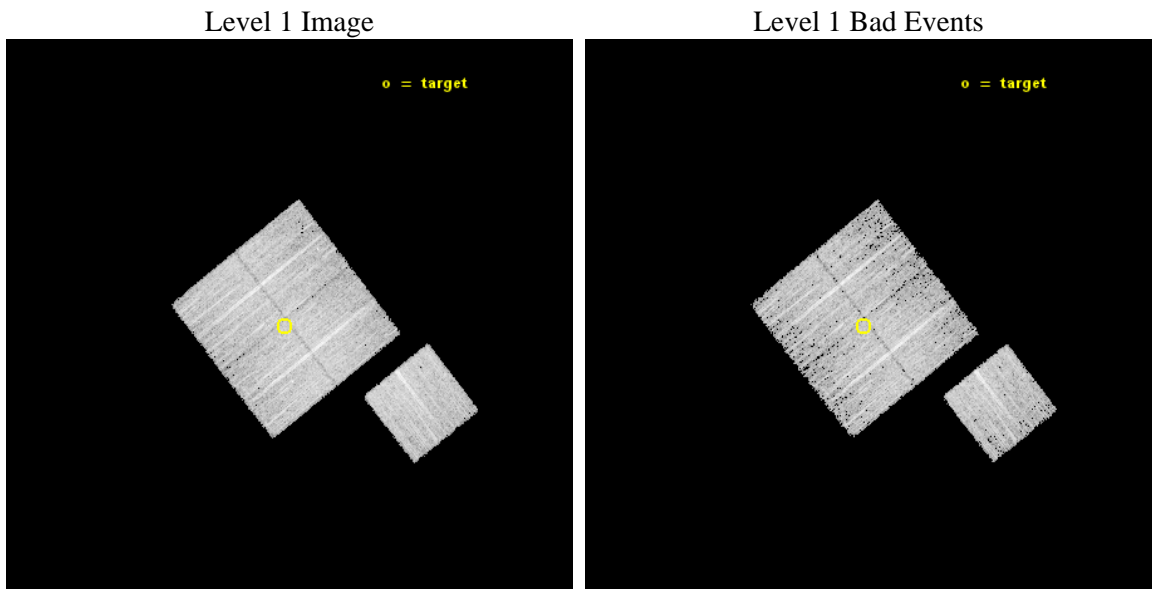
seq_num	801386	Sequence number
obs_id	16132	Observation id
title	TO THE VIRIAL RADIUS OF THE MOST LUMINOUS LOCAL GALAXY GROUP: UGC03957	Proposal title
observer	Dr. Lorenzo Lovisari	Principal investigator
object	UGC 03957 EAST	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	115.9725	Observer's specified target RA [deg]
dec_targ	55.509389	Observer's specified target Dec [deg]
ra_nom	115.95921322279	Nominal RA [deg]
dec_nom	55.512264334034	Nominal Dec [deg]
roll_nom	141.65731230845	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10081.158997238	Sum of GTIs [s]
livetime	9949.4412332975	Livetime [s]
ontime0	10084.300077558	Sum of GTIs [s]
ontime1	10078.017947078	Sum of GTIs [s]
ontime2	10084.300077558	Sum of GTIs [s]
ontime3	10081.158997238	Sum of GTIs [s]
ontime6	10084.300077558	Sum of GTIs [s]
l2events	24297	Number of level 2 events



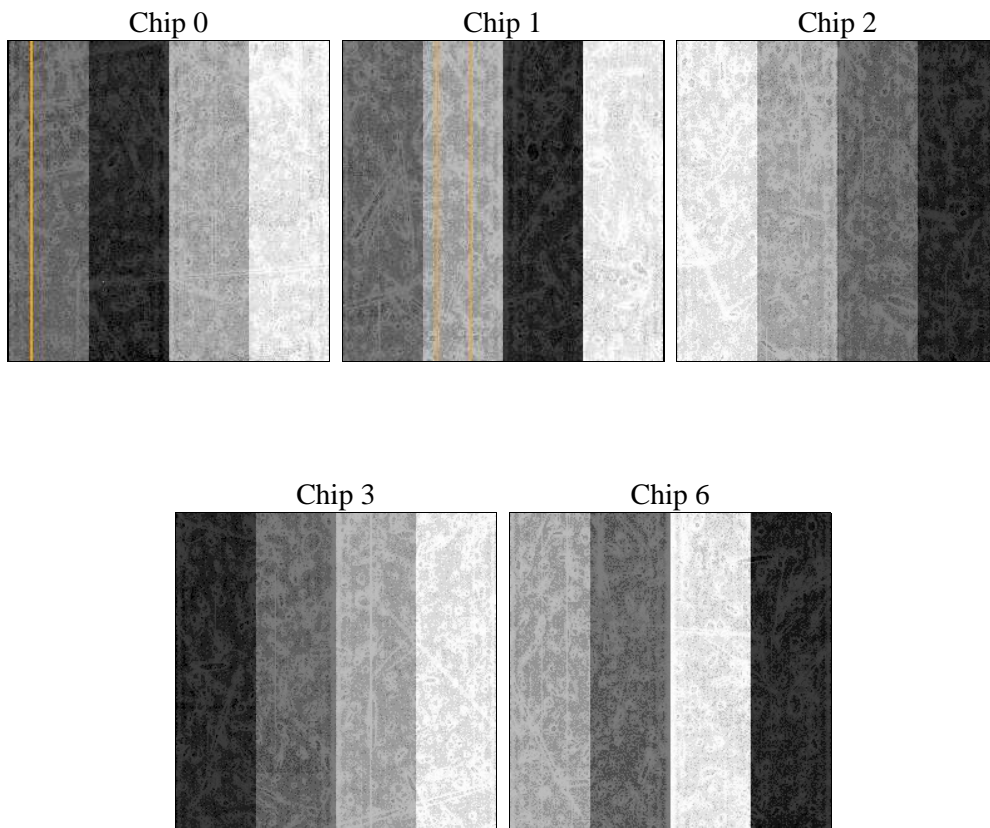
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	10081.158997238	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	10084.300077558	Sum of GTIs [s]
date	2014-12-08T12:30:52	Date and time of file creation	ontime1	10078.017947078	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10084.300077558	Sum of GTIs [s]
			ontime3	10081.158997238	Sum of GTIs [s]
			ontime6	10084.300077558	Sum of GTIs [s]
			l1events	236634	Number of level 1 events

2.1.4 Events

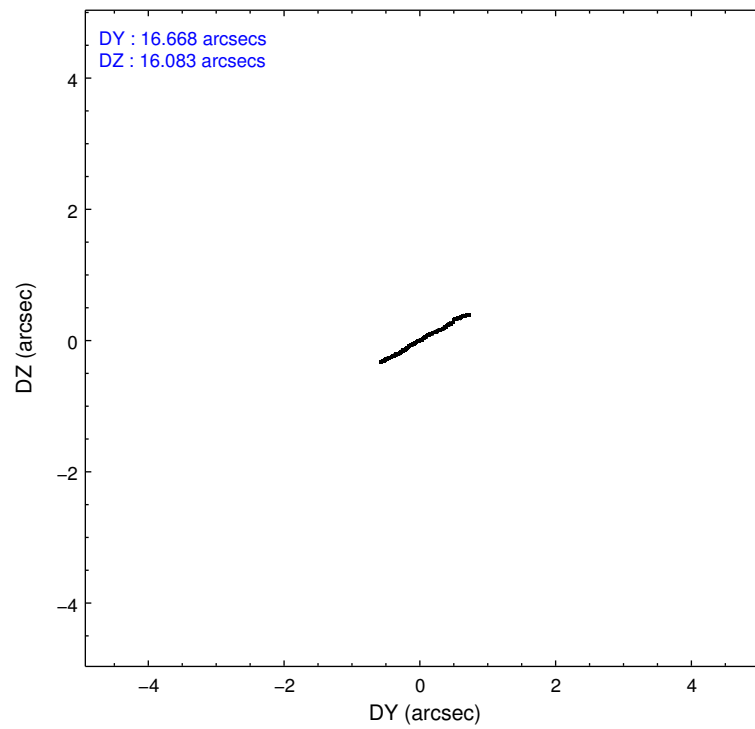
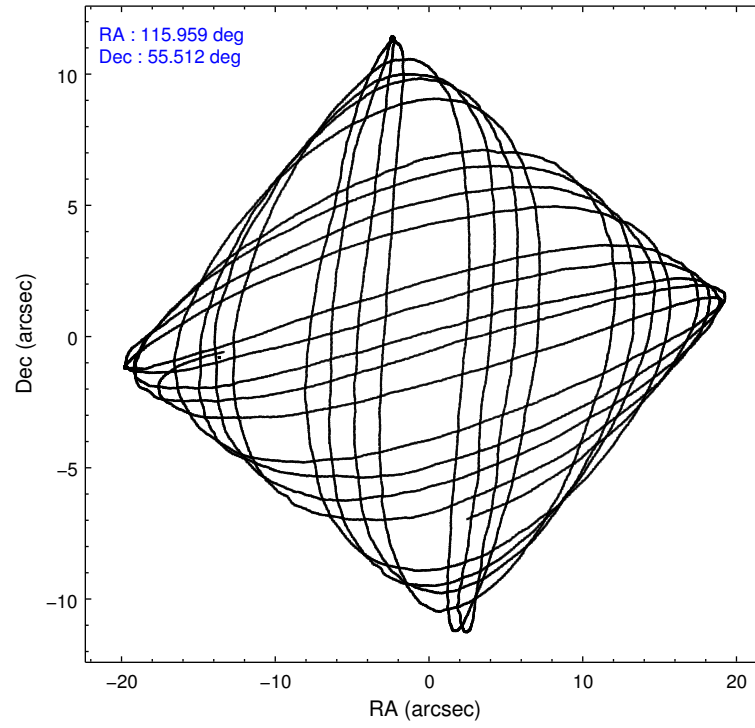
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	43723	47608	47253	48885	49165
rejected events	37976	41670	41971	43360	43263
rejected %	86%	87%	88%	88%	87%

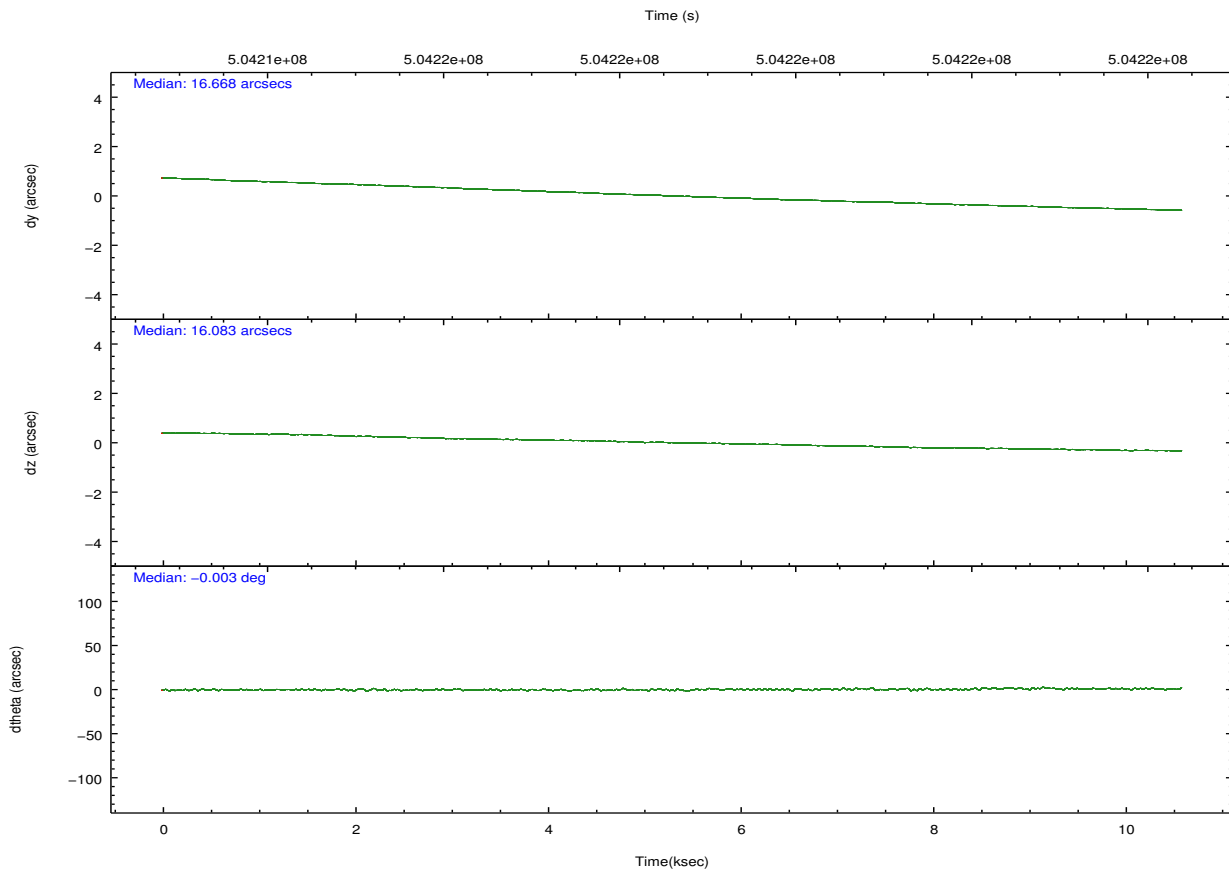
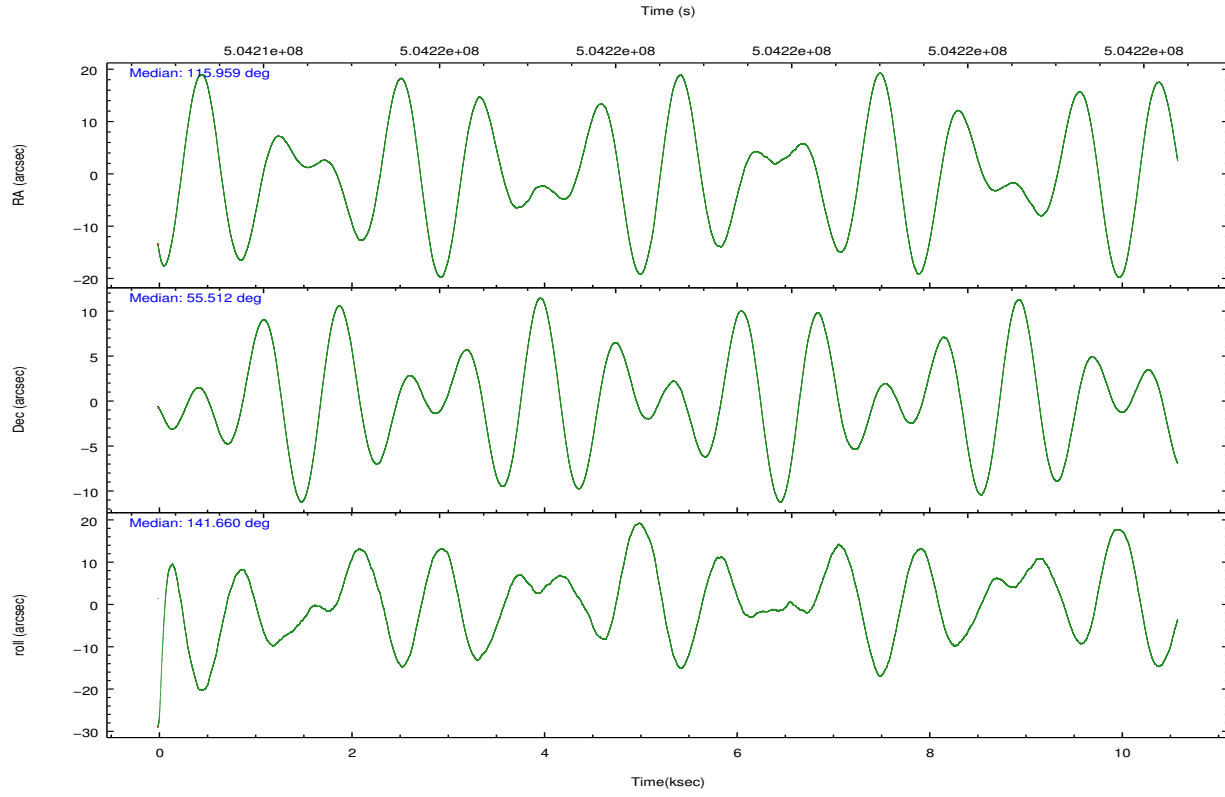
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2044	1914	1826	1919	2083
	4%	4%	3%	3%	4%
grade 1 events	32	24	23	34	24
	0%	0%	0%	0%	0%
grade 2 events	1346	1413	1272	1247	1344
	3%	2%	2%	2%	2%
grade 3 events	580	597	552	560	560
	1%	1%	1%	1%	1%
grade 4 events	582	583	564	606	541
	1%	1%	1%	1%	1%
grade 5 events	2226	2374	2121	2500	2385
	5%	4%	4%	5%	4%
grade 6 events	1198	1433	1069	1194	1374
	2%	3%	2%	2%	2%
grade 7 events	35715	39270	39826	40825	40854
	81%	82%	84%	83%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	116.007255	115.9592132227924	CCD I2 on	Y	Y
[deg] Pointing Dec	55.508408	55.51226433403367	CCD I3 on	Y	Y
[deg] Pointing Roll	141.409071	141.6573123084478	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	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	504213887.184000	504212604.78003	CCD S5 on	N	N
Observation start date	2013-12-23T19:23:40	2013-12-23T19:03:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	504223887.184000	504224511.69318	On-chip summing requested	N	N
Observation end date	2013-12-23T22:10:20	2013-12-23T22:21:51	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



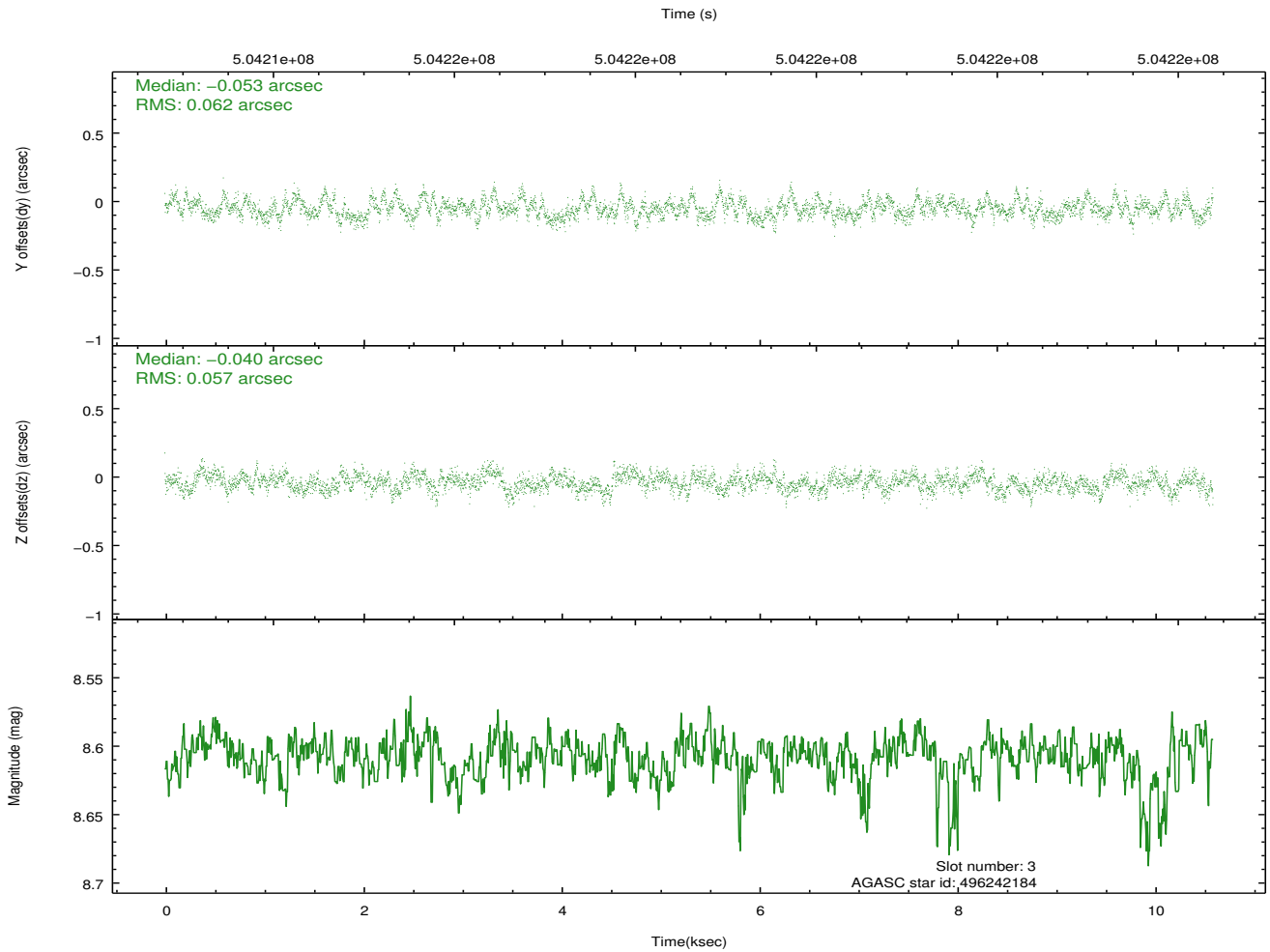
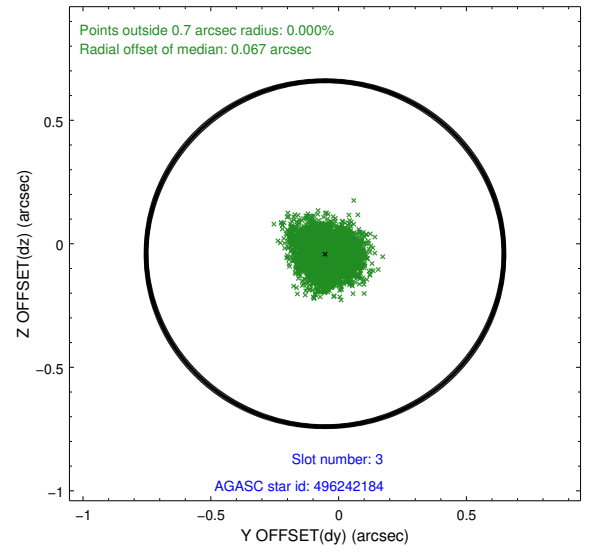
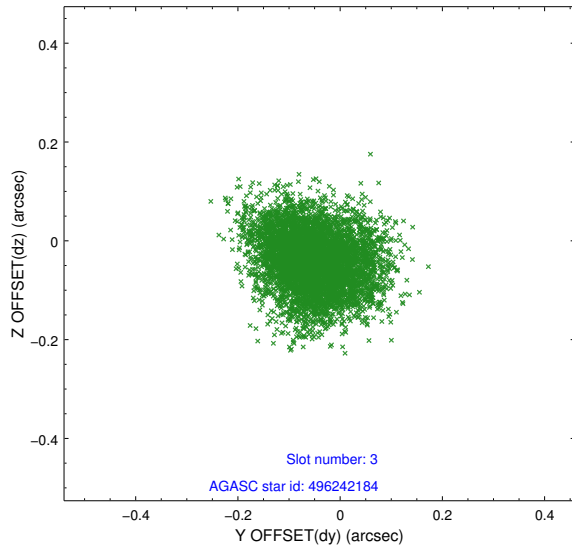


Slot Statistics

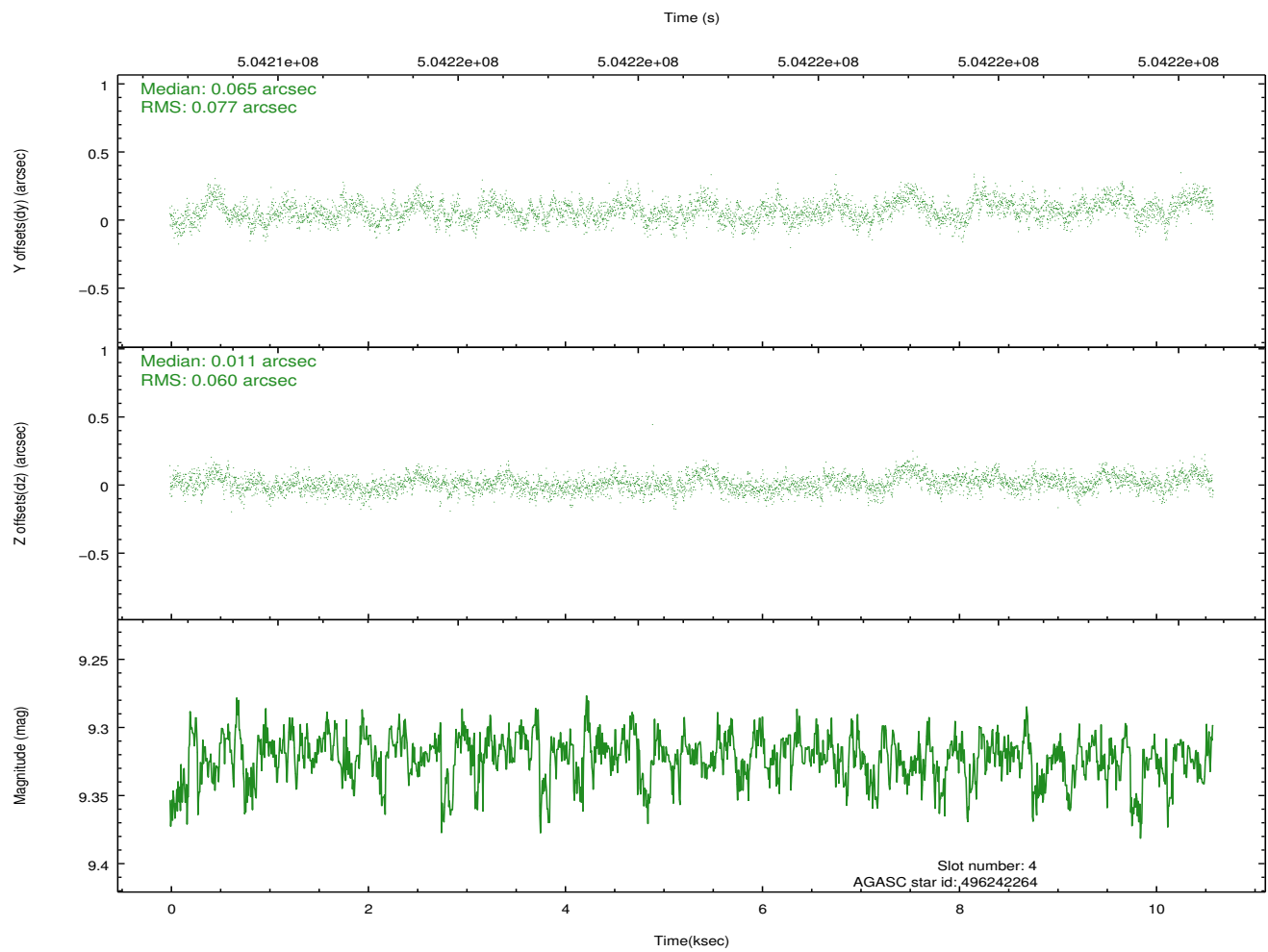
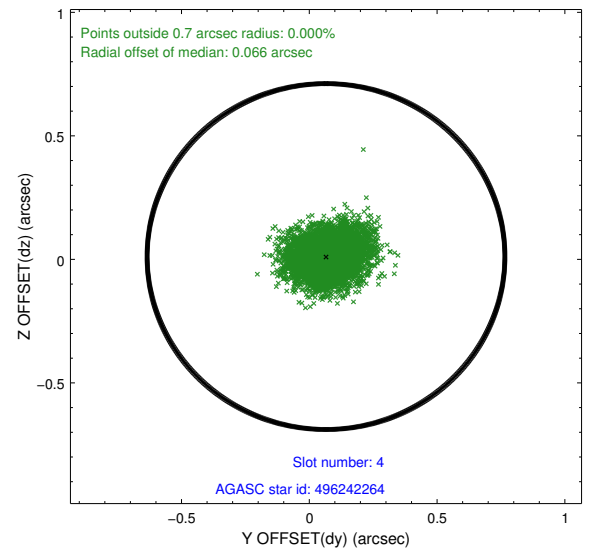
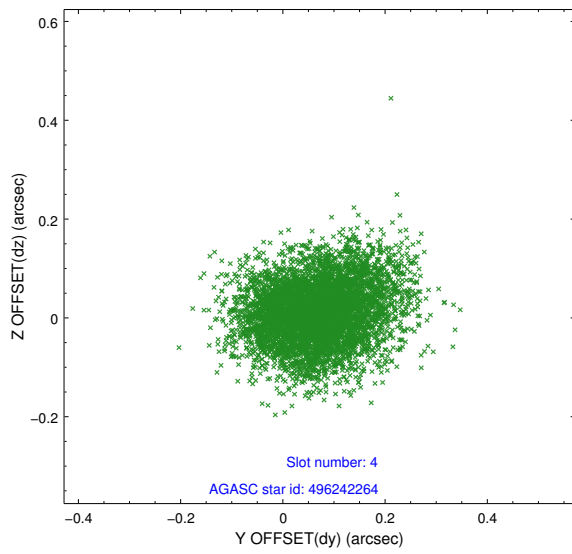
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.13	2584	-0.124	-0.120	0.011	0.019	0.000000	0.000000	-771.57	-846.22
1	FID		ACIS-I-4	7.15	2583	0.289	0.103	0.019	0.040	0.000000	0.000000	2142.65	1059.97
2	FID		ACIS-I-5	7.21	2584	-0.267	0.086	0.019	0.038	0.000000	0.000000	-1824.94	1058.30
3	GUIDE	used	496242184	8.61	5166	-0.053	-0.040	0.090	0.144	116.337982	56.137867	896.70	-2185.23
4	GUIDE	used	496242264	9.32	5162	0.065	0.011	0.104	0.172	115.334729	55.945747	2046.65	-390.42
5	GUIDE	used	496373208	7.80	5167	-0.169	0.082	0.098	0.148	116.744717	55.493518	-1203.20	-902.19
6	GUIDE	used	496377992	6.89	5167	0.070	-0.036	0.054	0.085	116.751676	55.541366	-1105.72	-1044.86
7	GUIDE	used	496370648	9.05	5165	0.081	-0.017	0.088	0.145	117.651804	55.628963	-2316.58	-2454.39

2.4 Star Slots

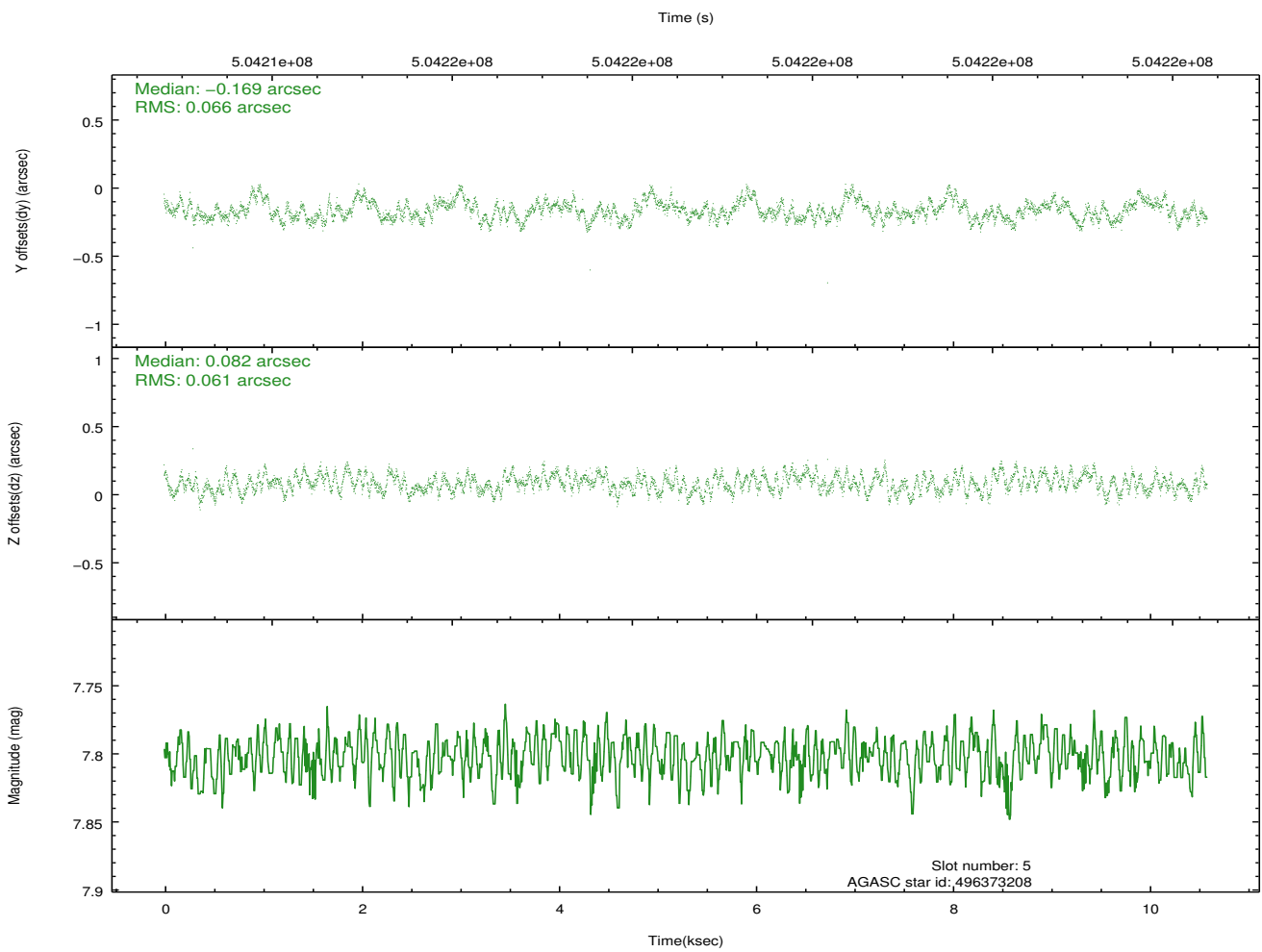
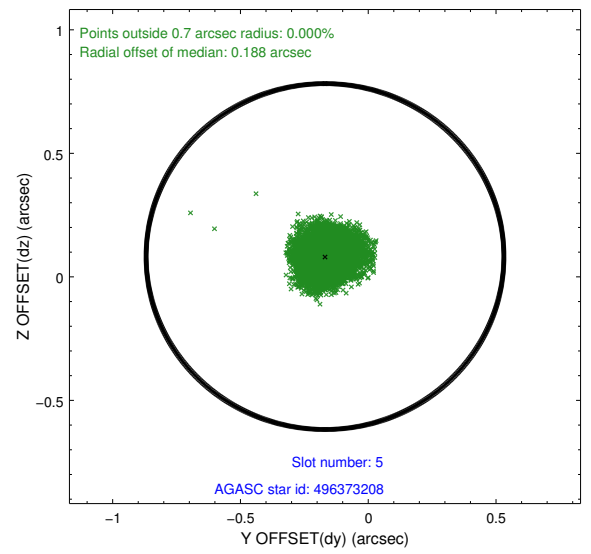
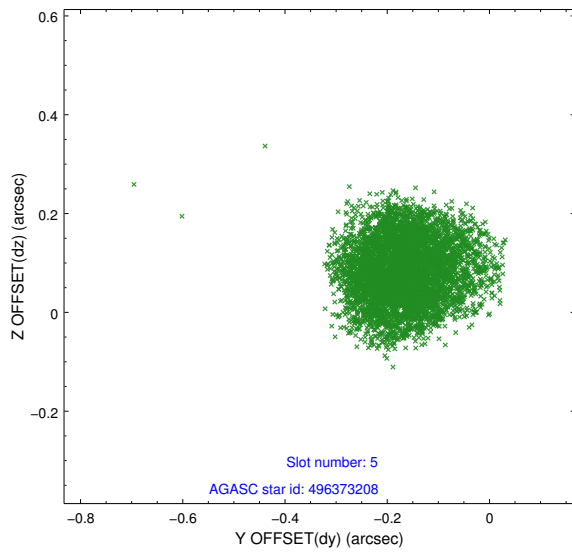
2.4.1 Slot 3



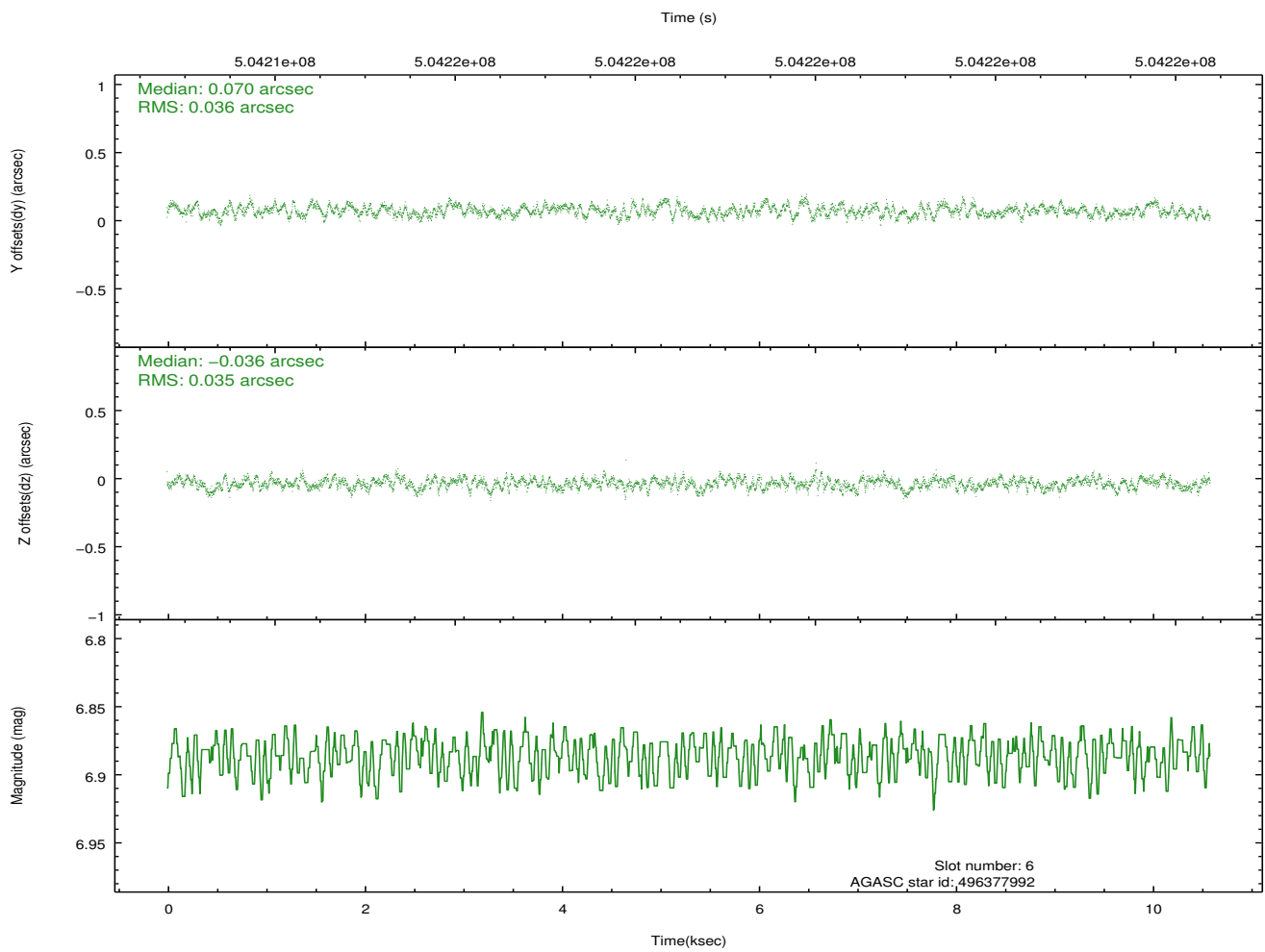
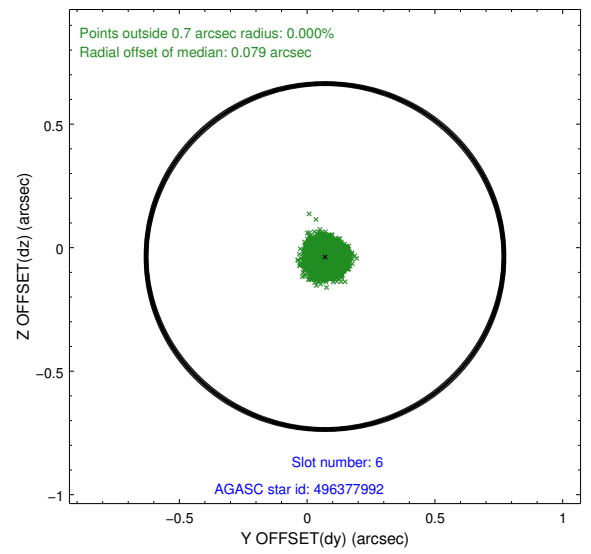
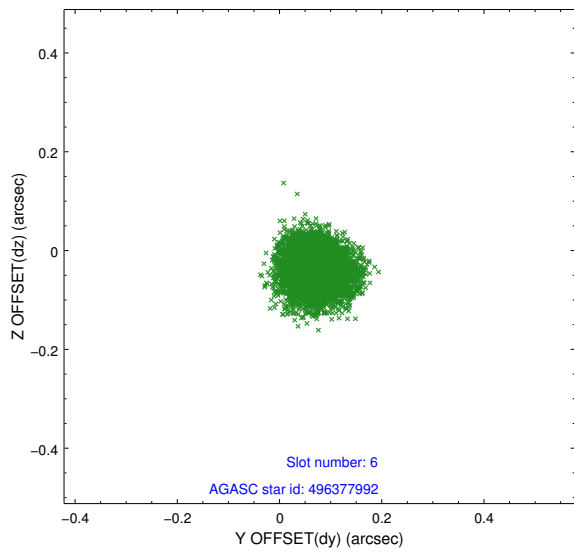
2.4.2 Slot 4



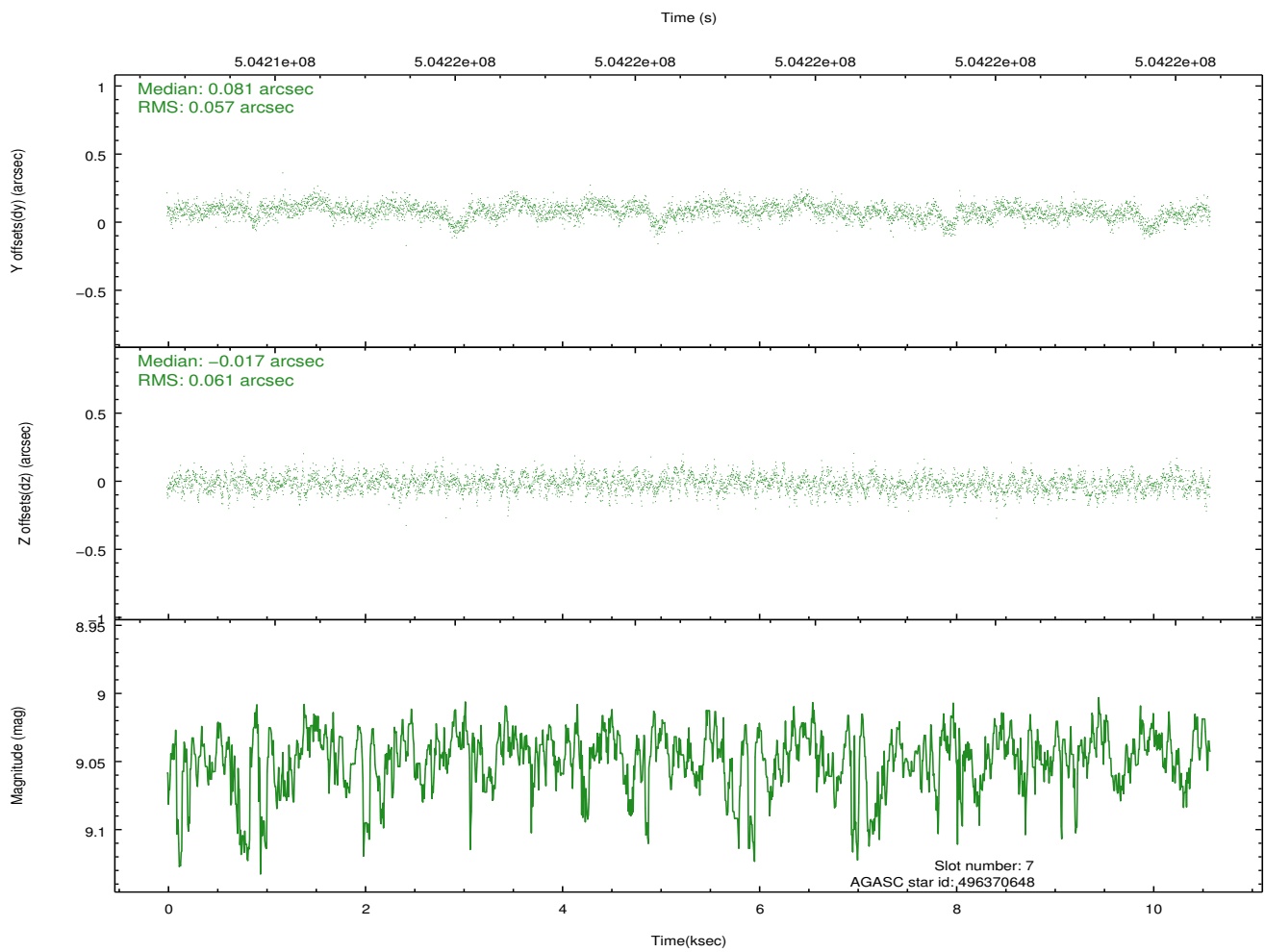
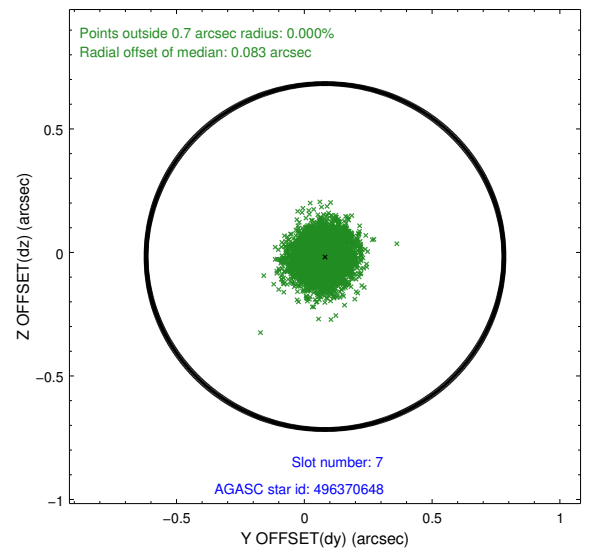
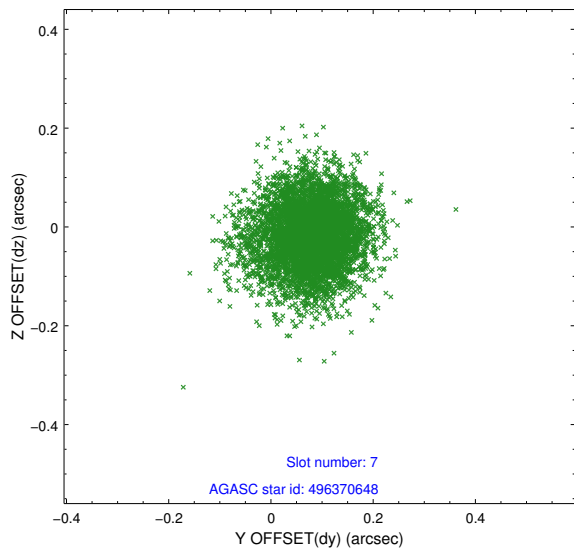
2.4.3 Slot 5



2.4.4 Slot 6

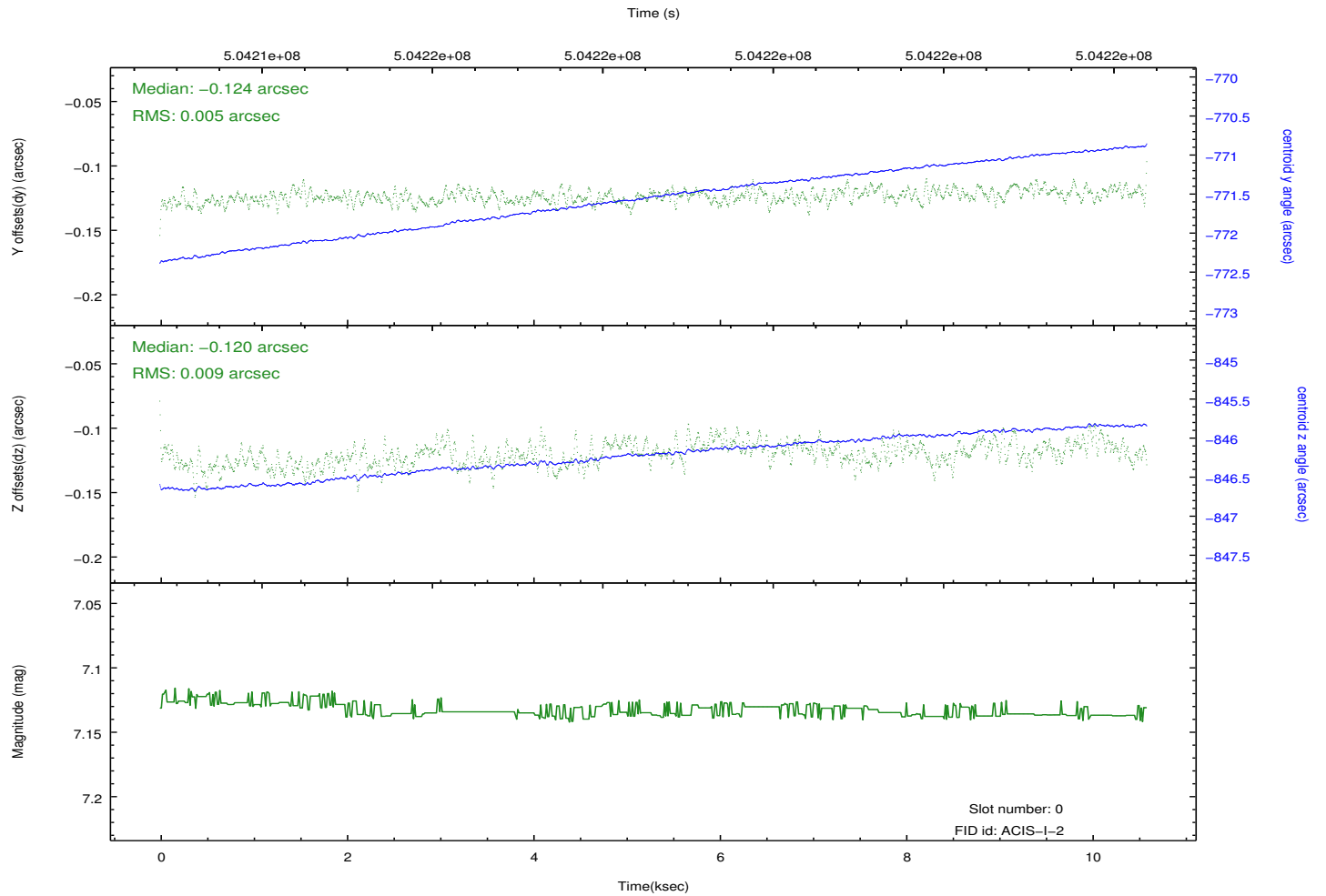
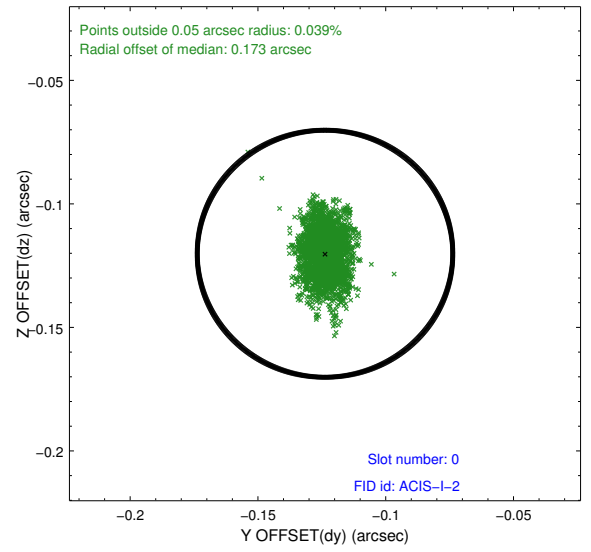
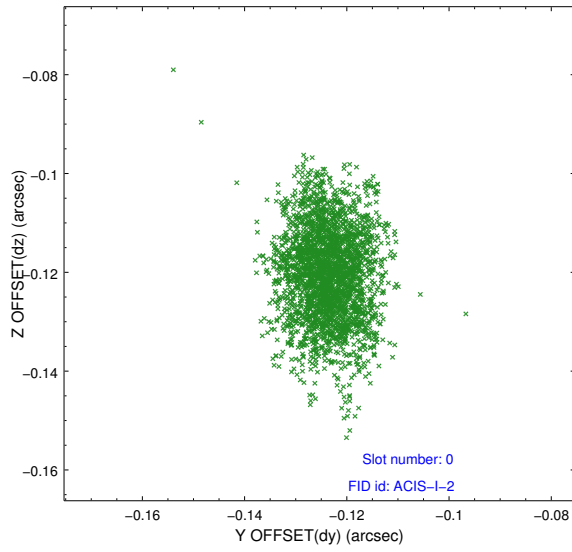


2.4.5 Slot 7

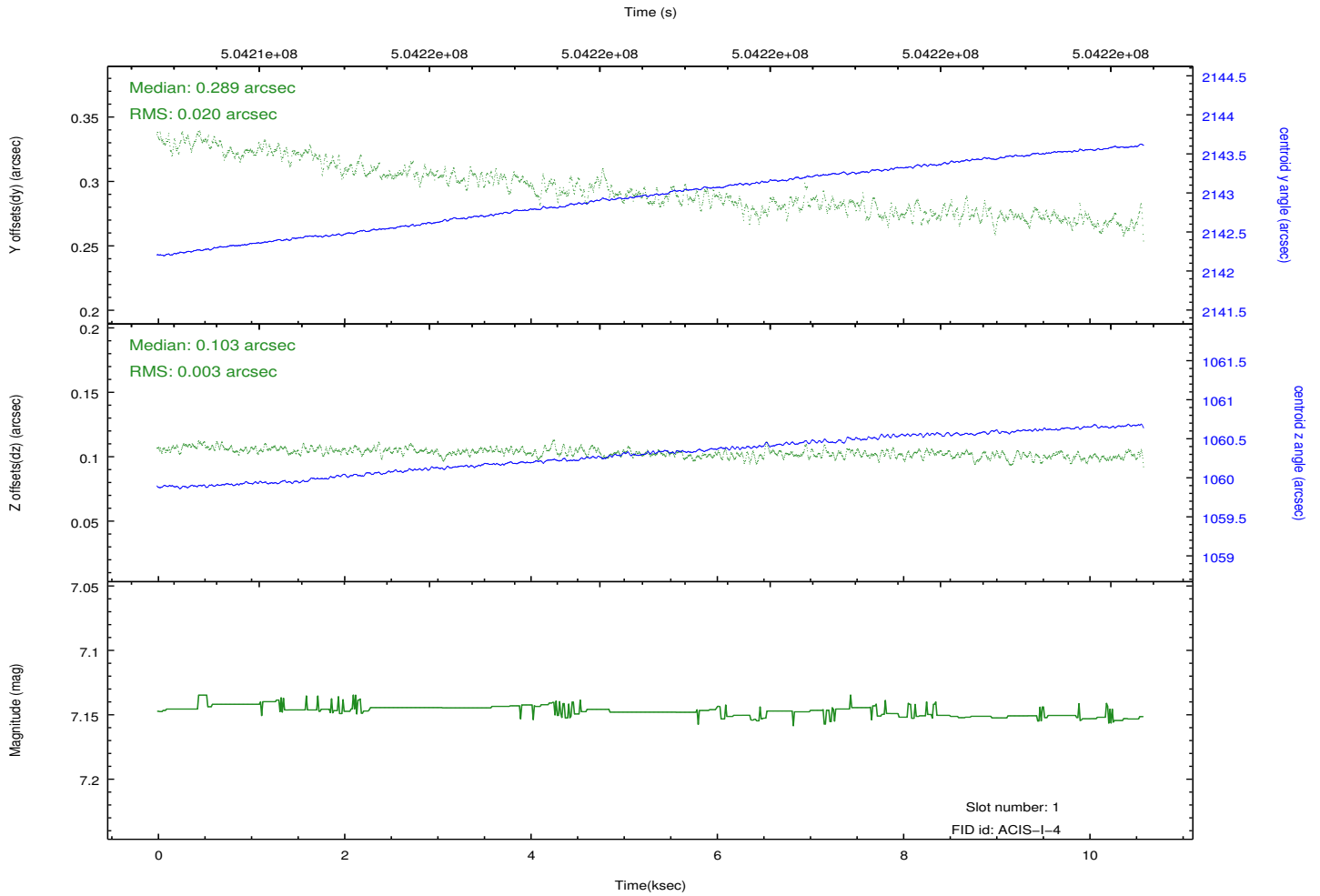
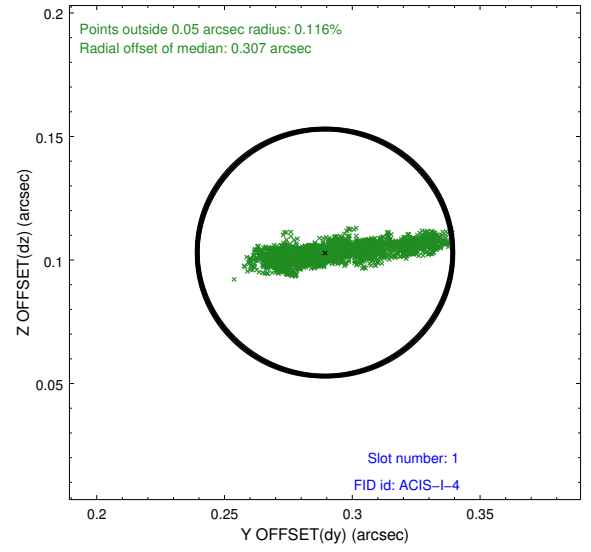
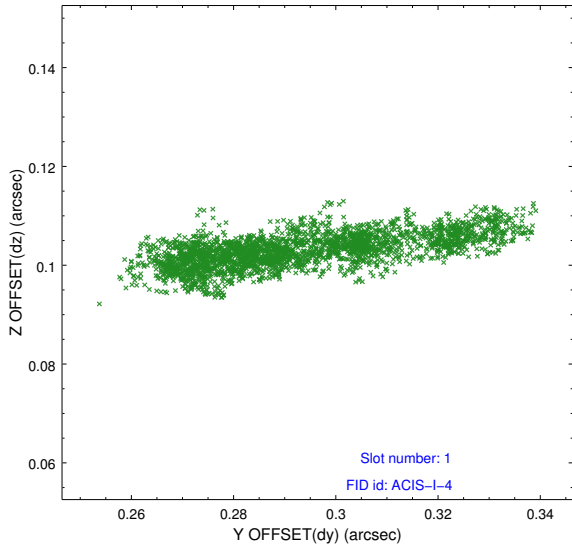


2.5 FID Slots

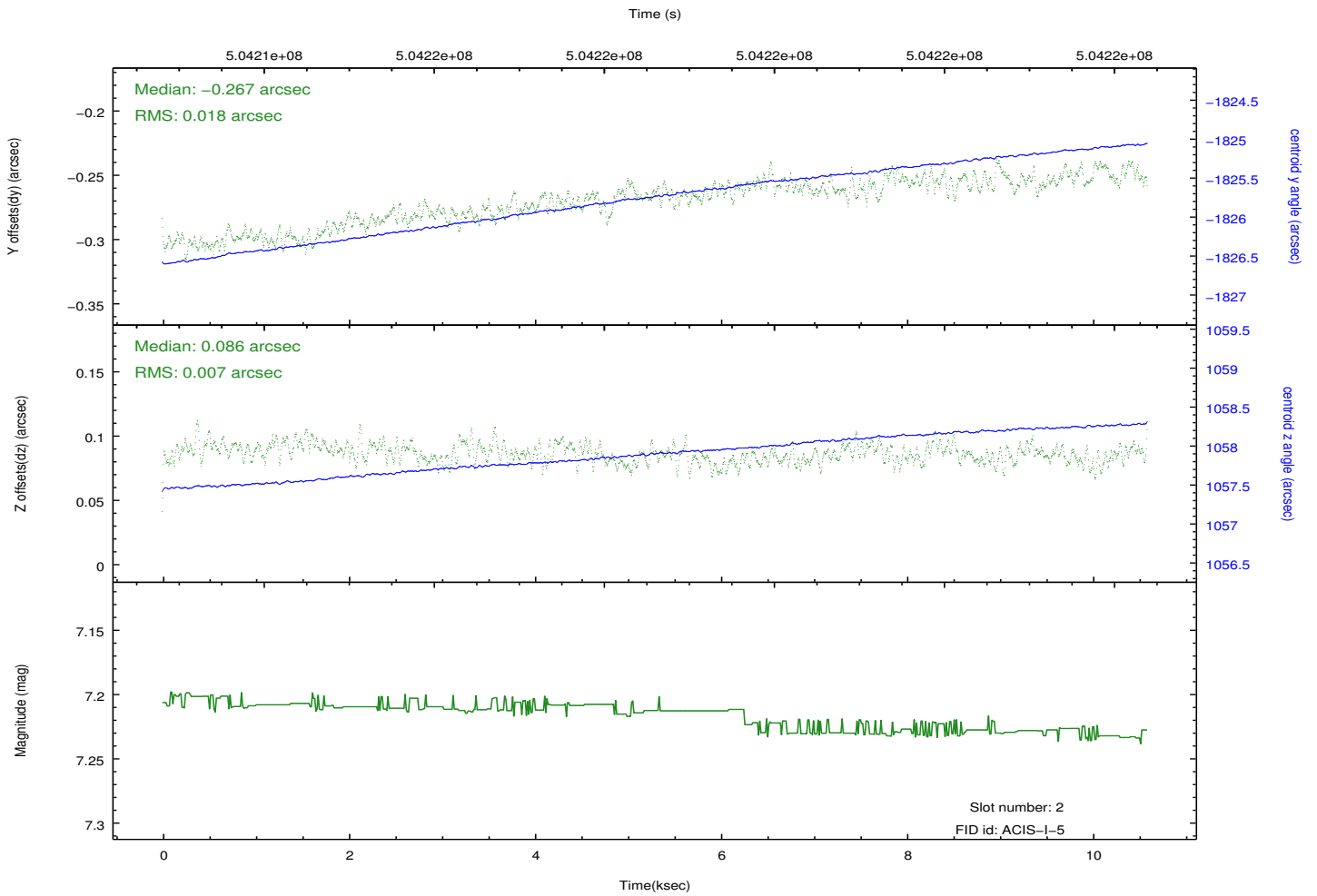
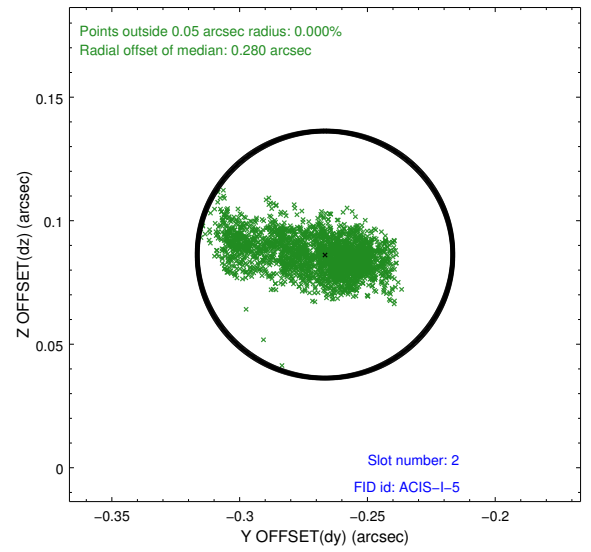
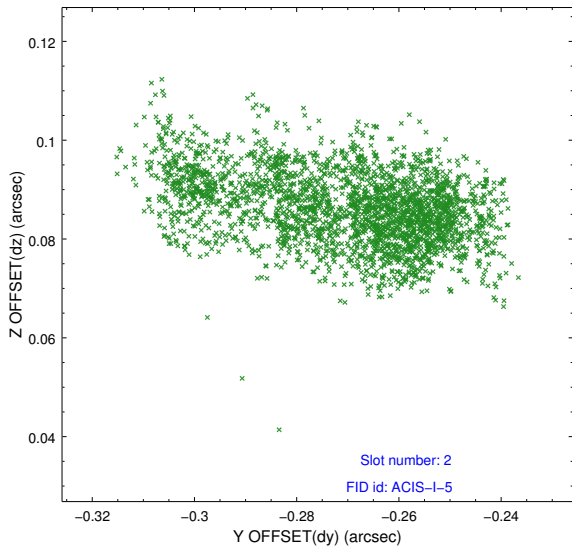
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.081158997238

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.