

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18249 - L2 Version 1
Chandra X-Ray Center

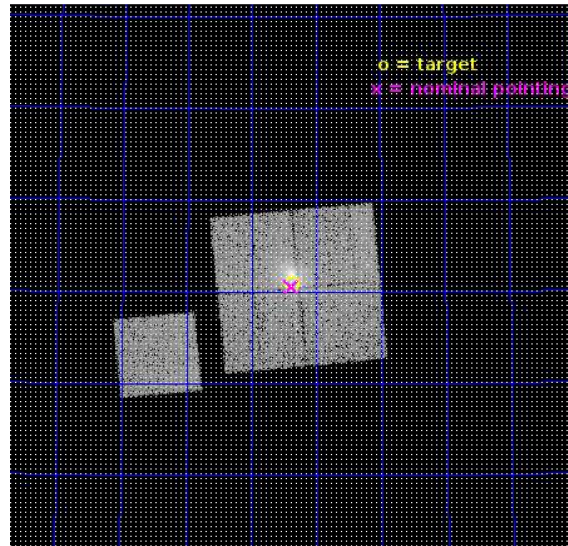
L2 Processing Date : Jul 30 2016

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1 Front

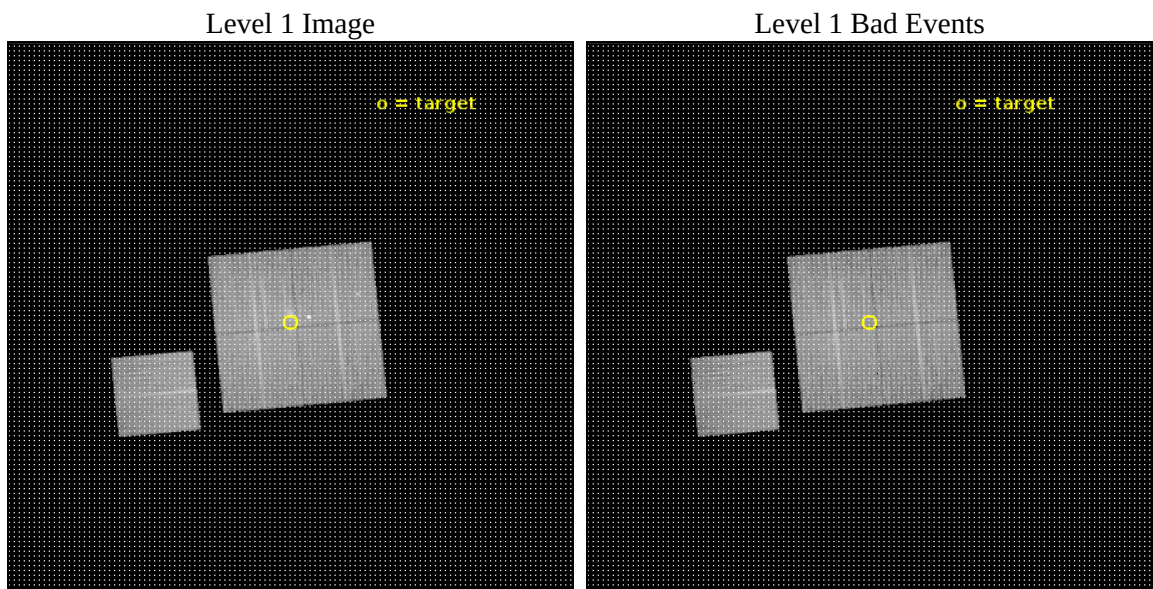
seq_num	801573	Sequence number
obs_id	18249	Observation id
title	X-ray/dynamical masses with the complete CHeCS sample	Proposal tit
observer	Dr Ben Maughan	Principal investigator
object	A1918	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.342083	Observer's specified target RA [deg]
dec_targ	63.183	Observer's specified target Dec [deg]
ra_nom	216.34631533953	Nominal RA [deg]
dec_nom	63.176502436663	Nominal Dec [deg]
roll_nom	264.54088790521	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20765.603342652	Sum of GTIs [s]
livetime	20494.285447566	Livetime [s]
ontime0	20765.48024261	Sum of GTIs [s]
ontime1	20762.380272269	Sum of GTIs [s]
ontime2	20765.562471986	Sum of GTIs [s]
ontime3	20765.603342652	Sum of GTIs [s]
ontime6	20765.439282537	Sum of GTIs [s]
l2events	73682	Number of level 2 events



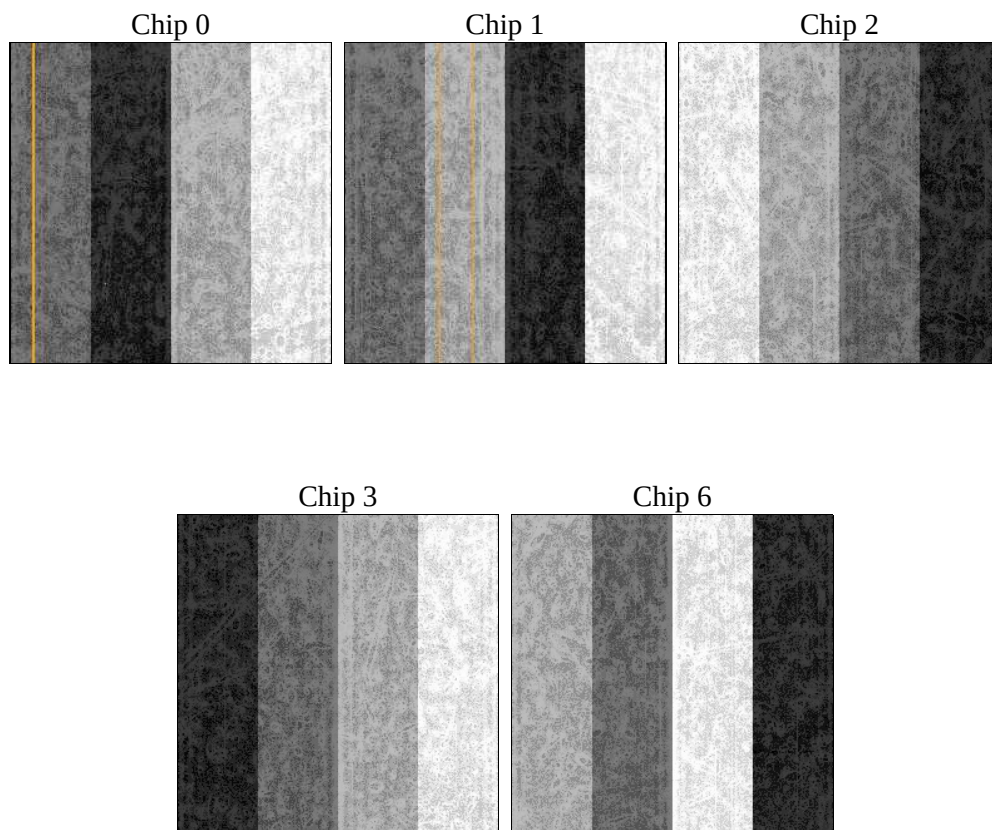
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20726.395000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	20765.603342652	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	20765.48024261	Sum of GTIs [s]
date	2016-07-30T22:00:56	Date and time of file creation	ontime1	20762.380272269	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	20765.562471986	Sum of GTIs [s]
			ontime3	20765.603342652	Sum of GTIs [s]
			ontime6	20765.439282537	Sum of GTIs [s]
			l1events	695064	Number of level 1 events

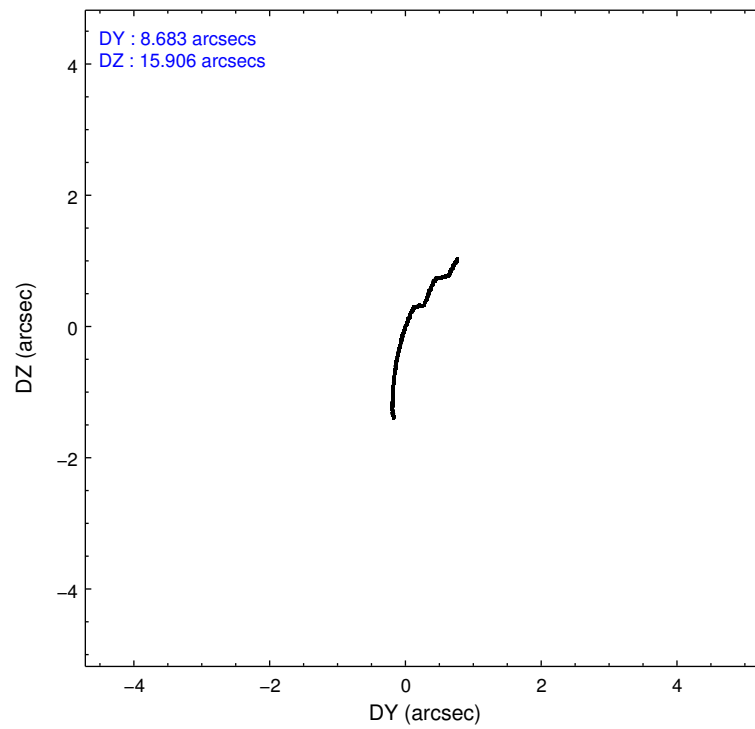
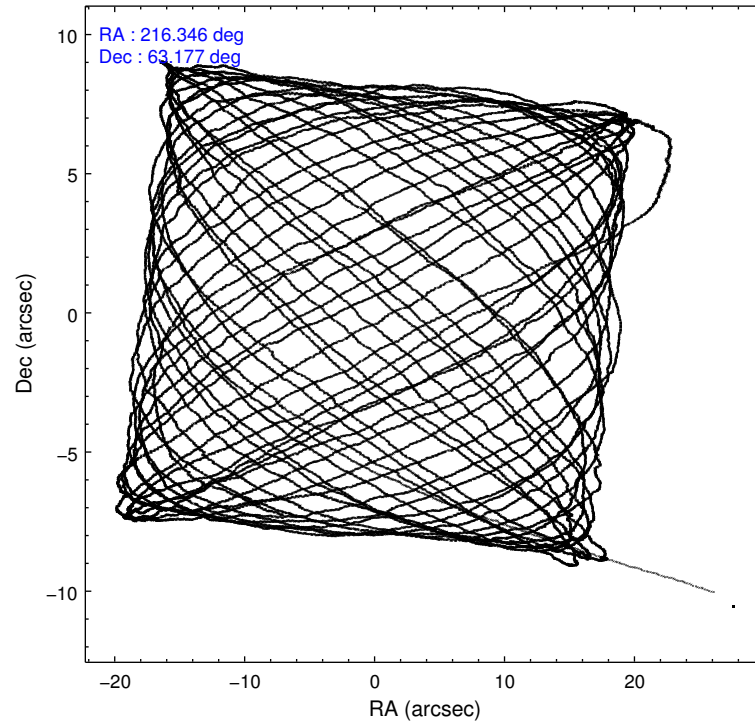
2.1.4 Events

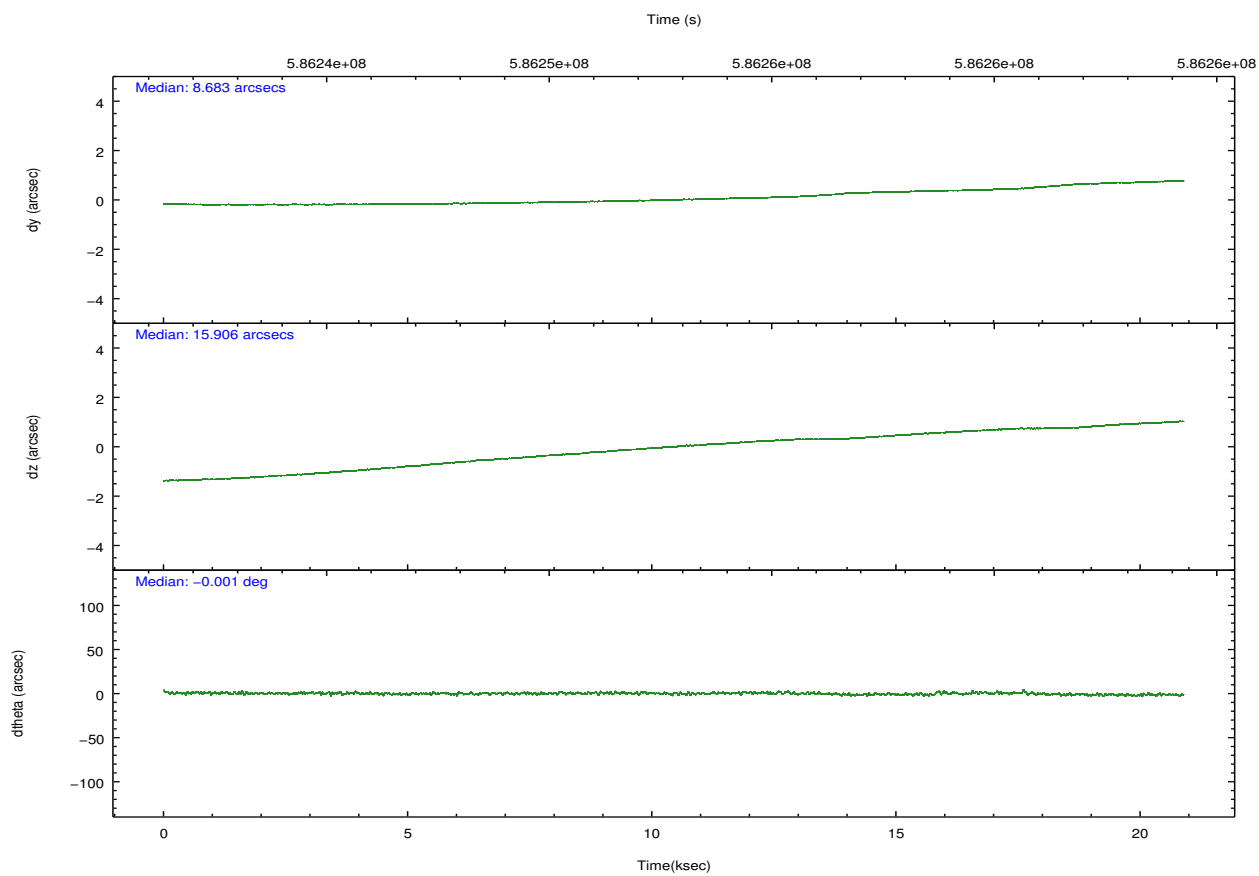
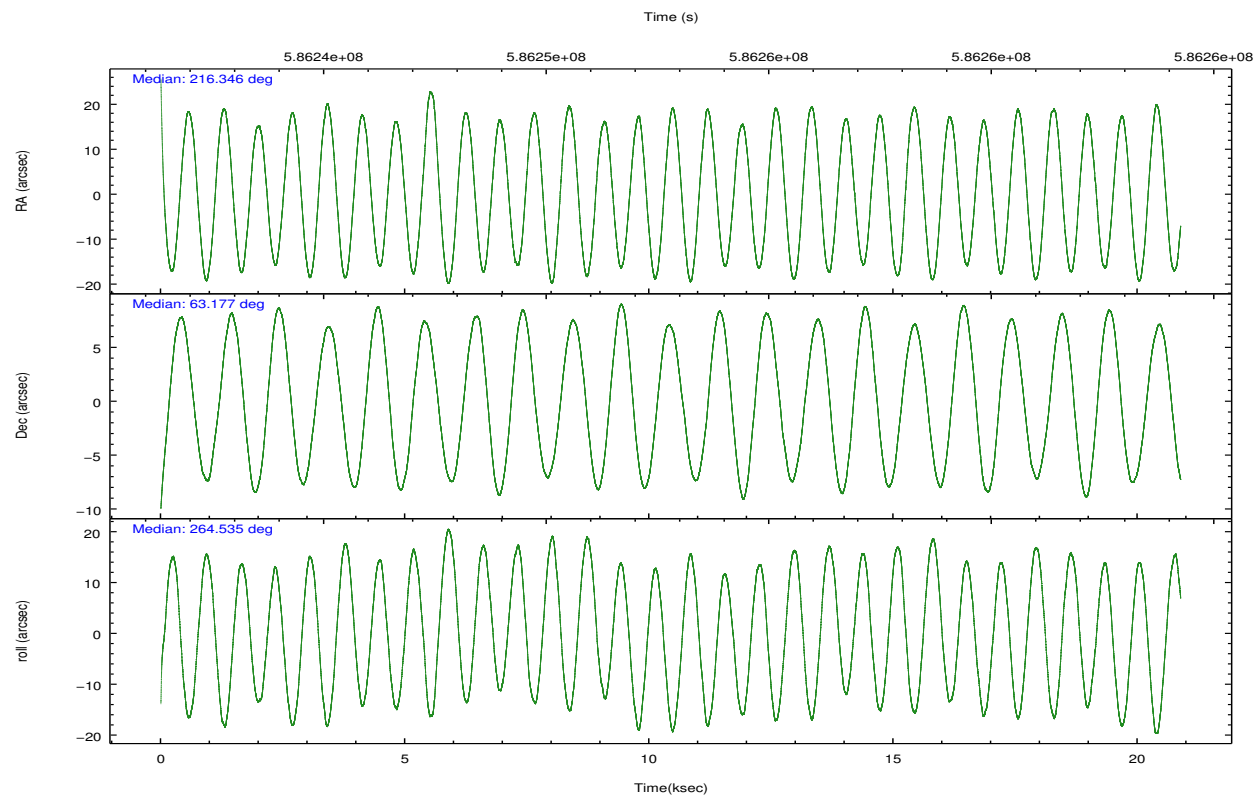
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	127602	139029	140924	149470	138039	grade 0 events	5427	13903	5687	11139	4715
rejected events	112141	113556	125926	127740	123125		4%	10%	4%	7%	3%
rejected %	87%	81%	89%	85%	89%	grade 1 events	61	99	73	118	52
							0%	0%	0%	0%	0%
						grade 2 events	3777	4571	3451	3814	3536
							2%	3%	2%	2%	2%
						grade 3 events	1559	1651	1475	1741	1366
							1%	1%	1%	1%	0%
						grade 4 events	1463	1567	1482	1767	1459
							1%	1%	1%	1%	1%
						grade 5 events	5605	5870	5444	6439	6037
							4%	4%	3%	4%	4%
						grade 6 events	3243	3790	2909	3275	3841
							2%	2%	2%	2%	2%
						grade 7 events	106467	107578	120403	121177	117033
							83%	77%	85%	81%	84%

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	216.320720	216.3463153395293	CCD I2 on	Y	Y
[deg] Pointing Dec	63.201552	63.17650243666293	CCD I3 on	Y	Y
[deg] Pointing Roll	264.355046	264.5408879052129	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)	586242535.184000	586241403.38	CCD S5 on	N	N
Observation start date	2016-07-30T05:07:47	2016-07-30T04:50:03	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	586263261.184000	586263496.74377	On-chip summing requested	N	N
Observation end date	2016-07-30T10:53:13	2016-07-30T10:58:16	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



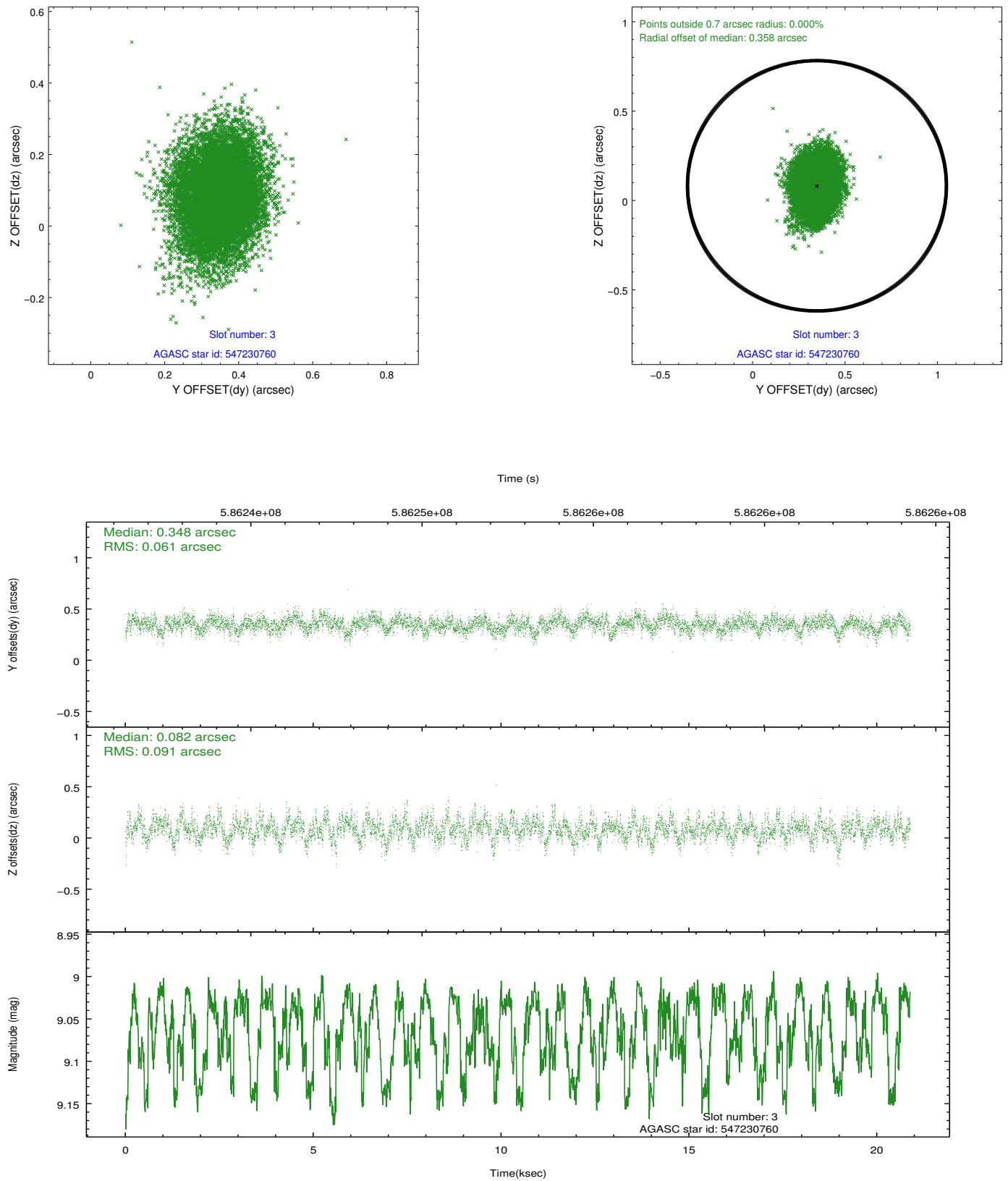


Slot Statistics

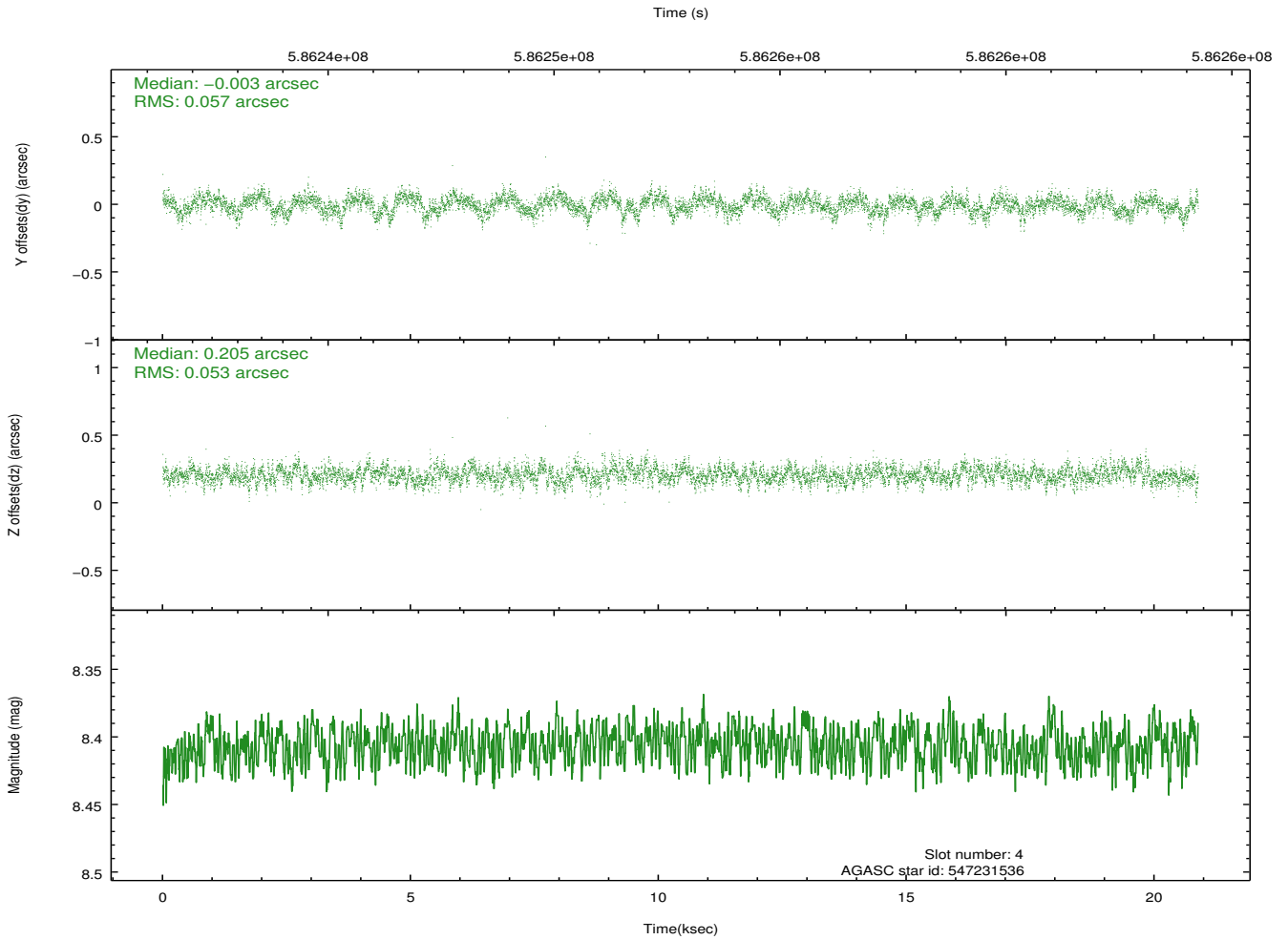
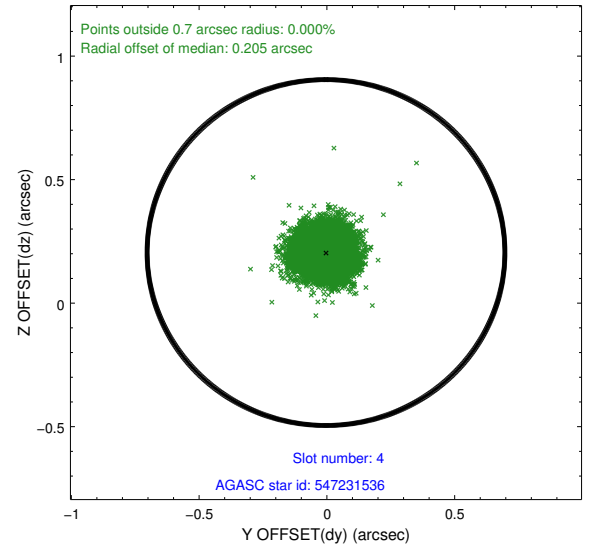
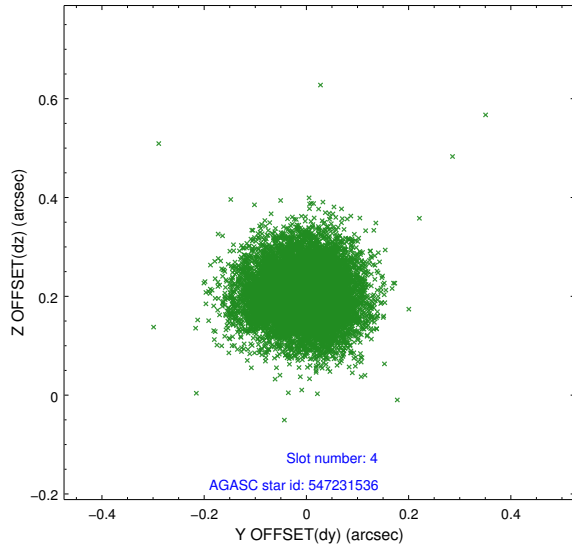
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	5093	0.008	-0.008	0.034	0.077	0.000000	0.000000	930.82	-839.43
1	FID		ACIS-I-2	7.13	5093	-0.312	-0.123	0.017	0.036	0.000000	0.000000	-763.49	-846.07
2	FID		ACIS-I-4	7.16	5093	0.206	0.198	0.019	0.041	0.000000	0.000000	2150.86	1060.45
3	GUIDE	used	547230760	9.07	10178	0.348	0.082	0.115	0.192	215.117597	63.358206	-387.40	-1989.54
4	GUIDE	used	547231536	8.41	10183	-0.003	0.205	0.083	0.134	215.911663	63.821432	-2158.65	-866.35
5	GUIDE	used	547233112	8.75	10180	-0.002	0.090	0.100	0.161	215.054642	63.209348	154.43	-2048.44
6	GUIDE	used	547359760	9.15	10181	0.042	-0.136	0.128	0.208	217.193171	63.324101	-586.98	1358.77
7	GUIDE	used	547236216	7.60	10185	-0.379	-0.246	0.092	0.147	216.739909	62.508524	2411.53	938.29

2.4 Star Slots

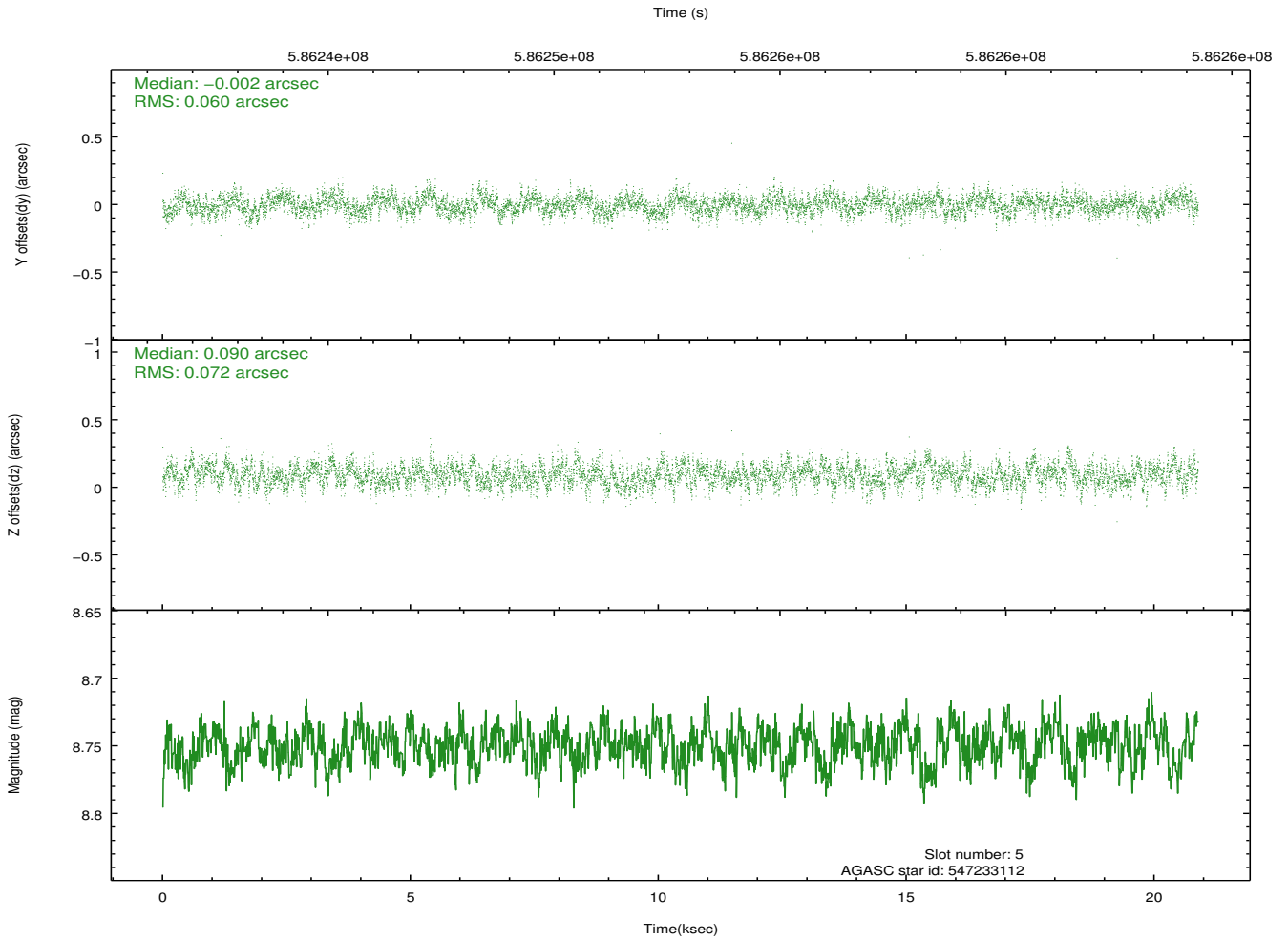
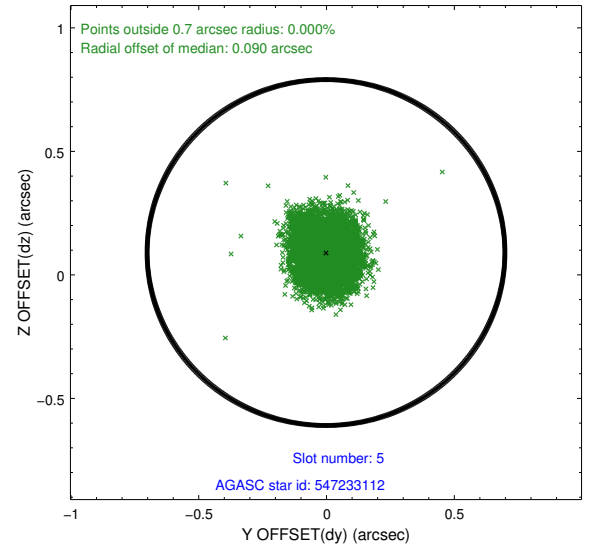
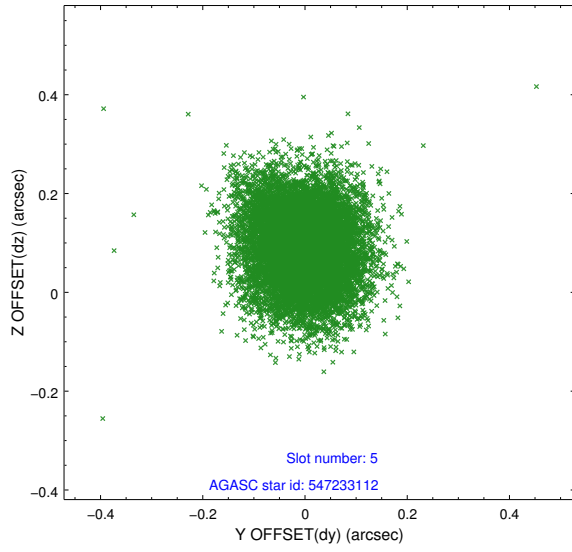
2.4.1 Slot 3



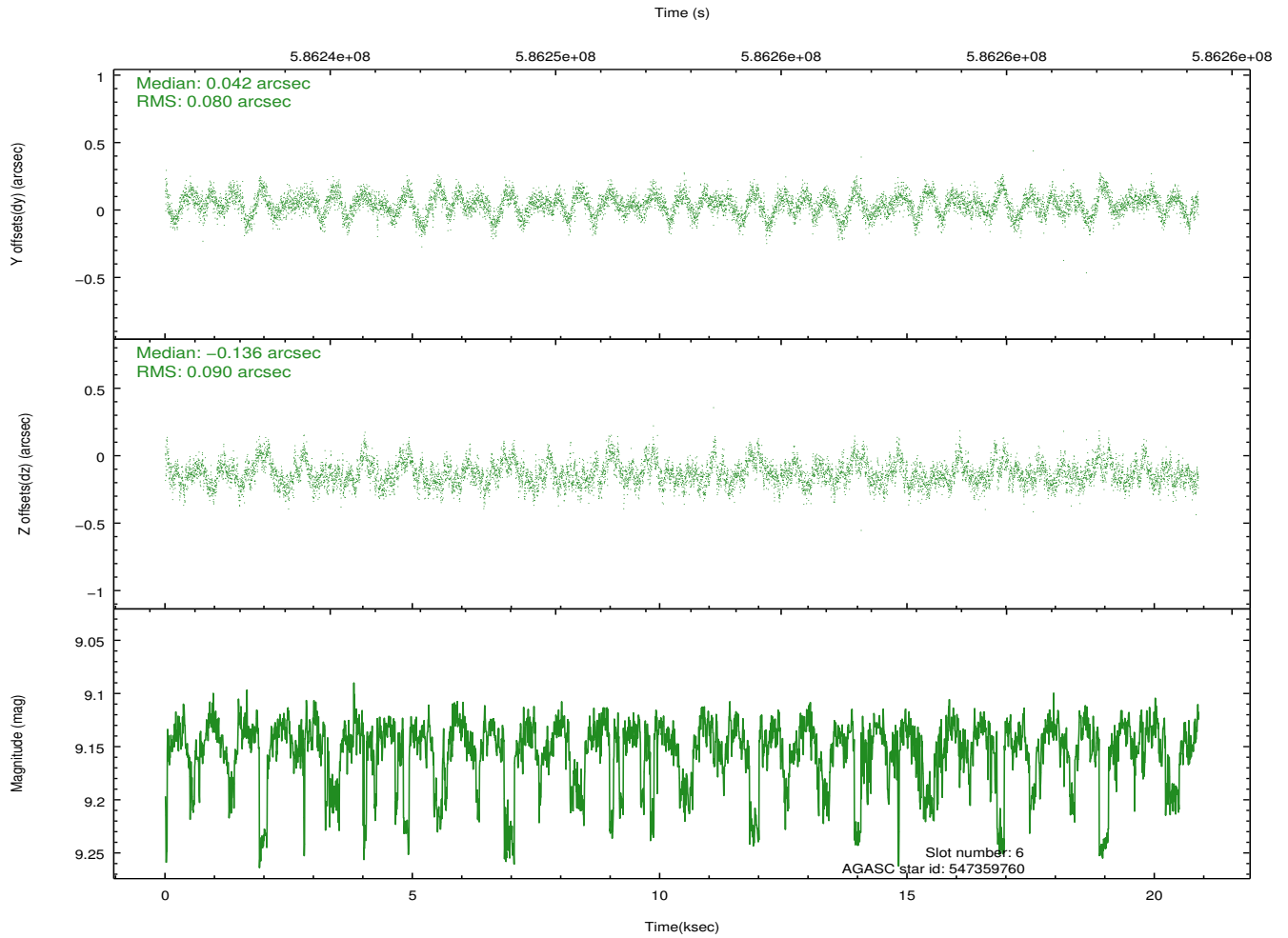
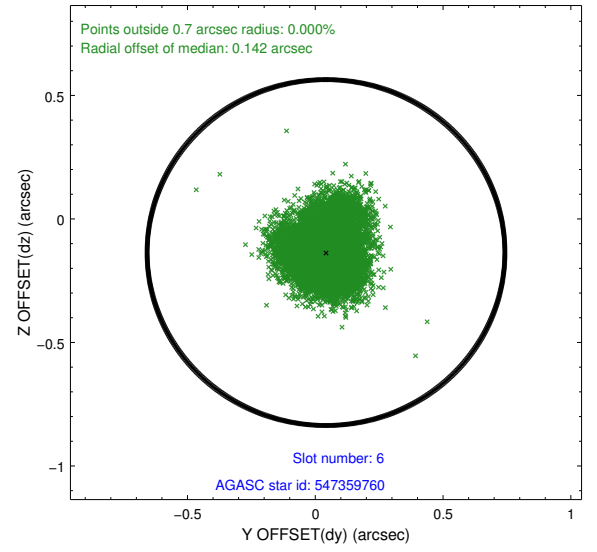
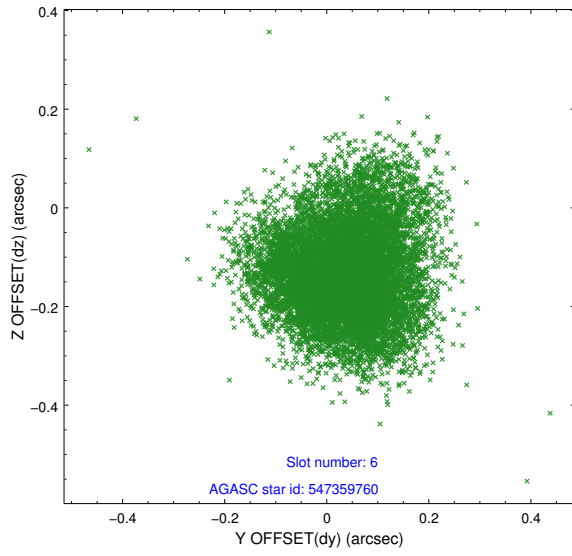
2.4.2 Slot 4



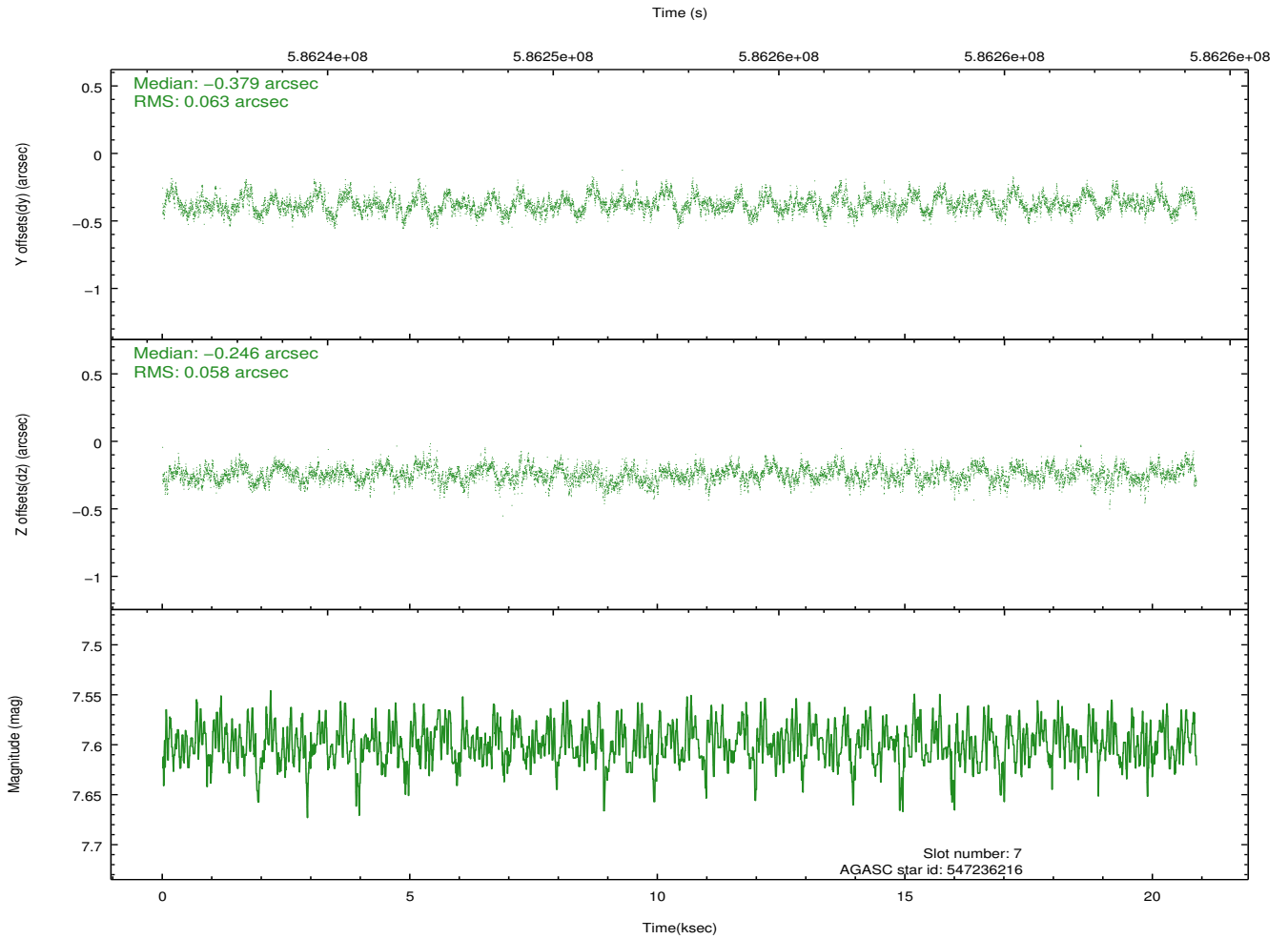
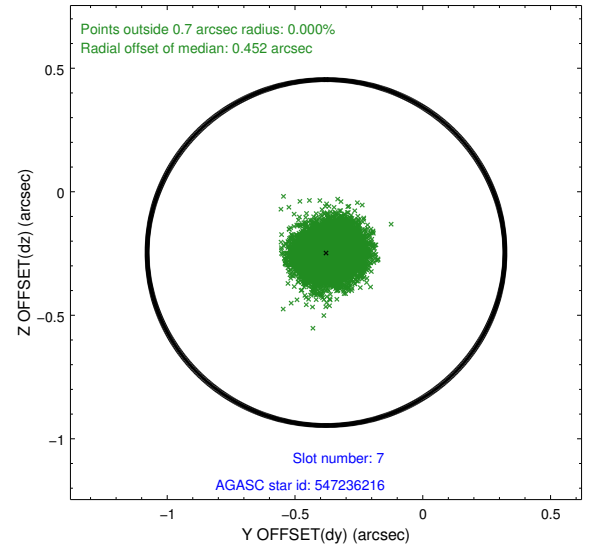
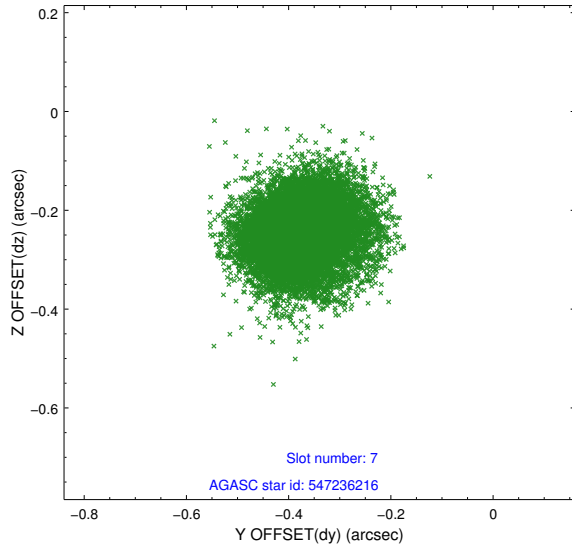
2.4.3 Slot 5



2.4.4 Slot 6

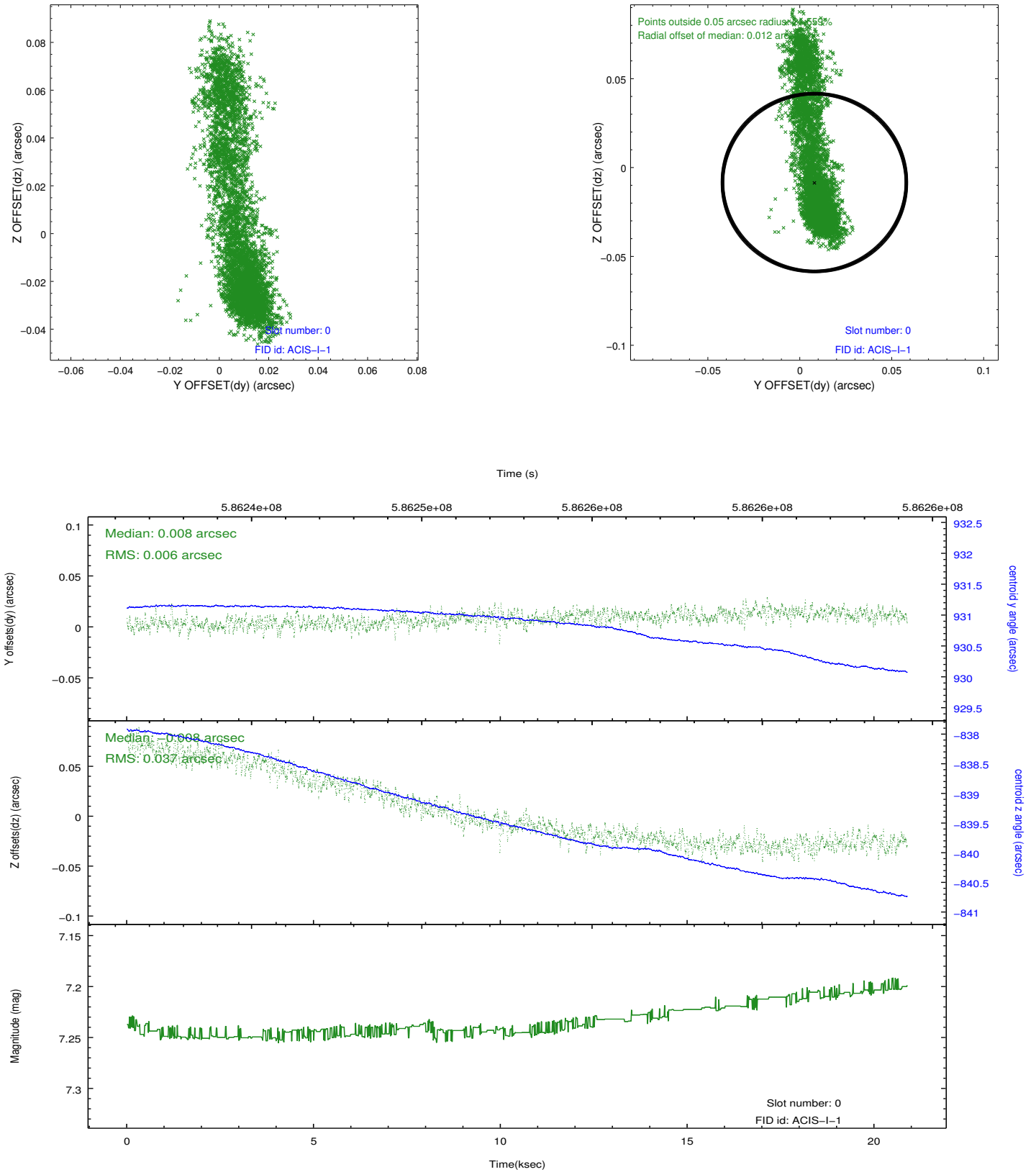


2.4.5 Slot 7

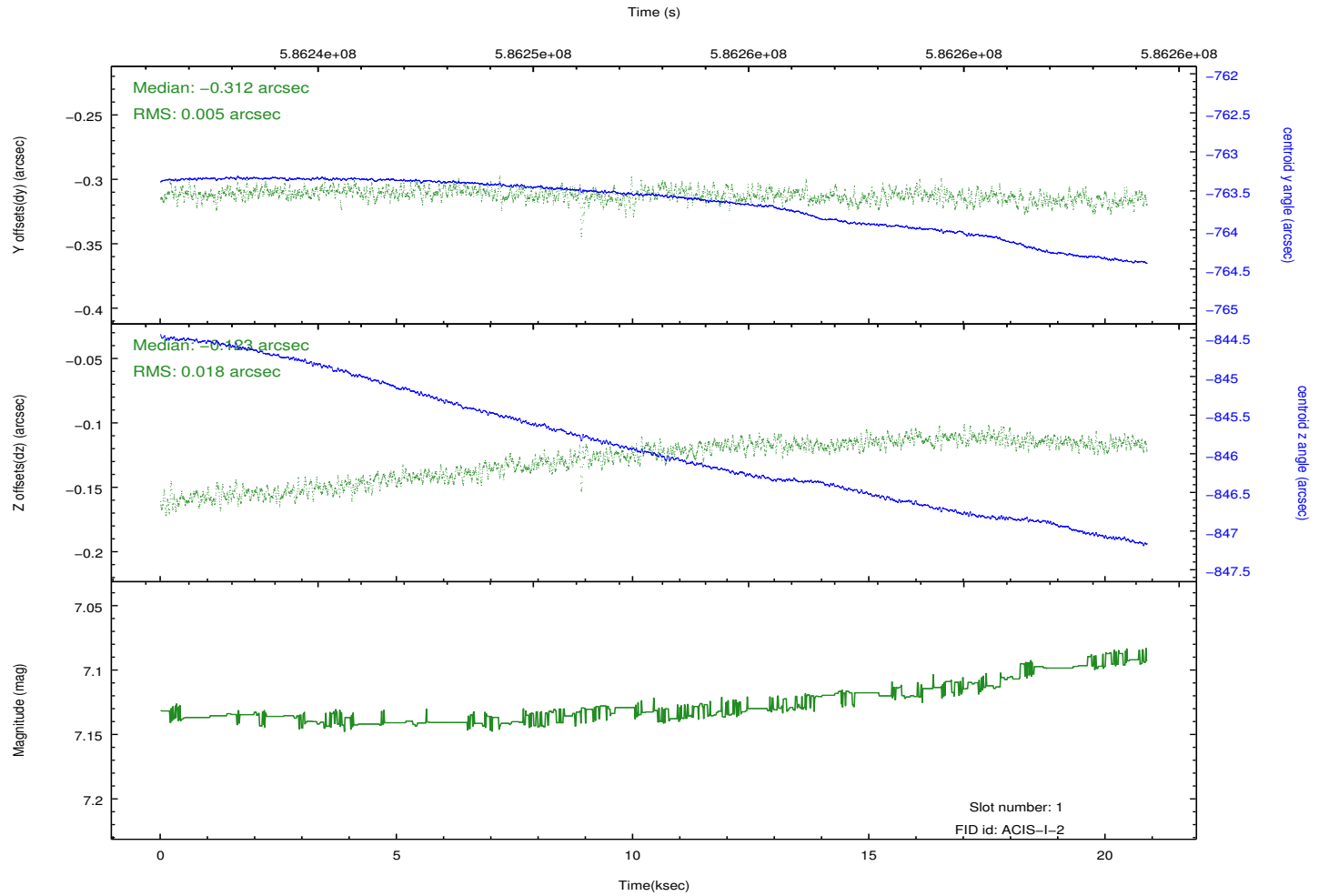
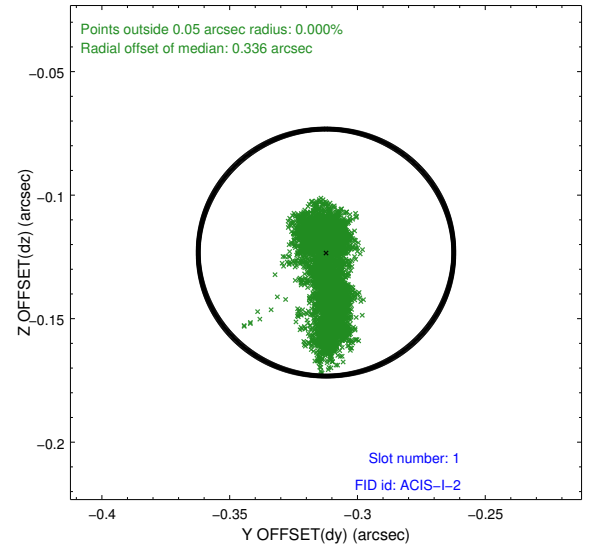
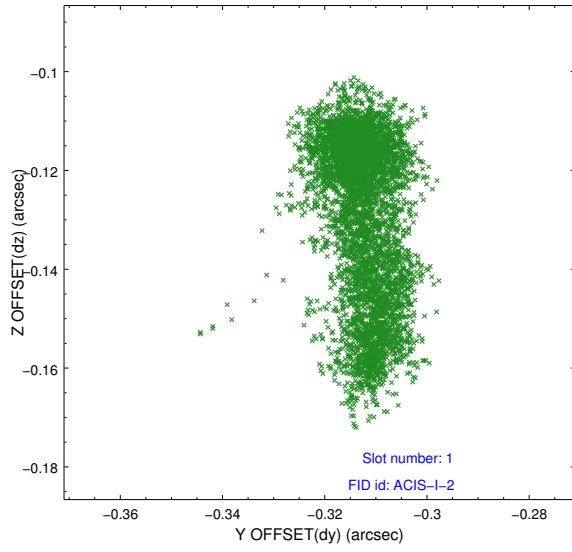


2.5 FID Slots

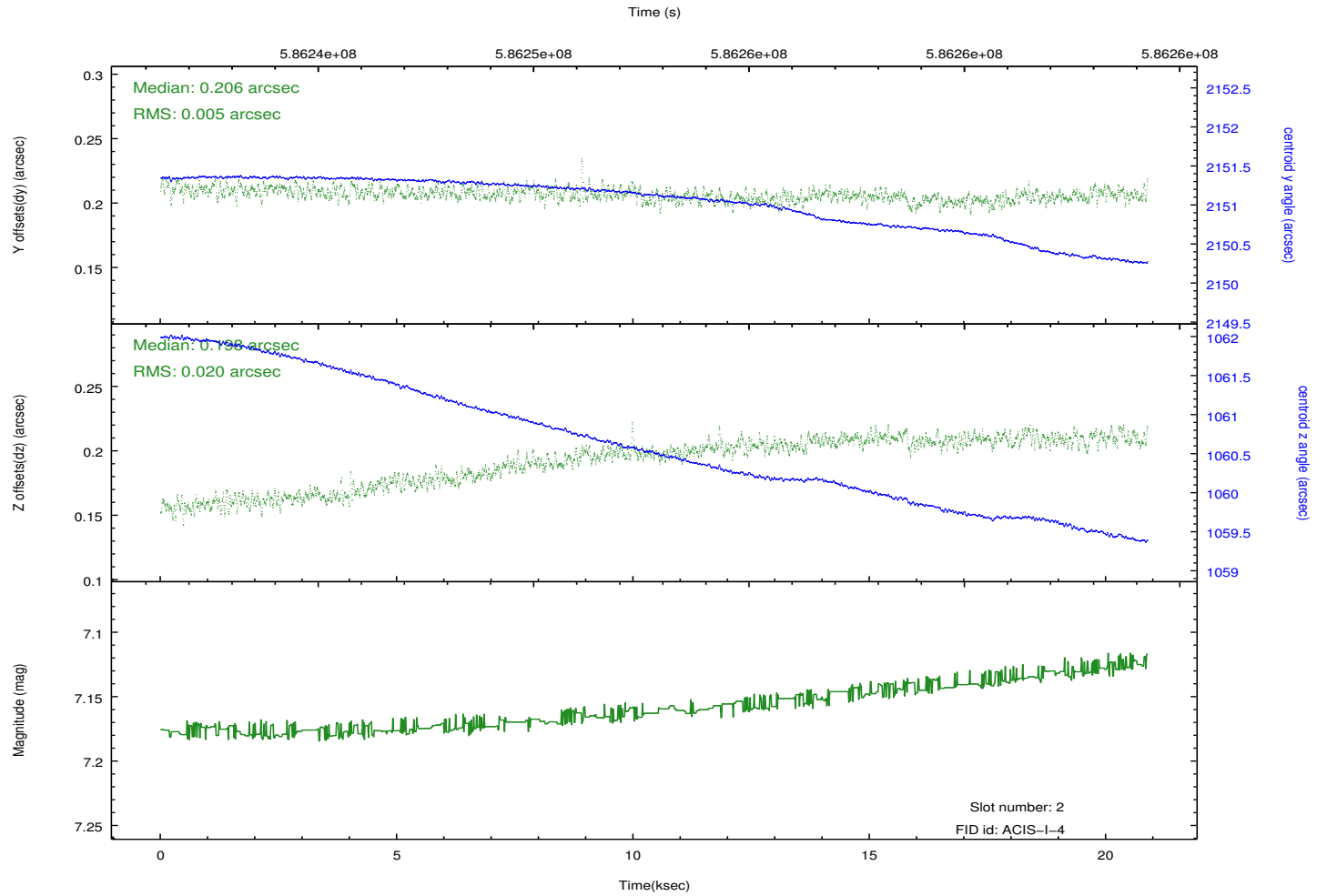
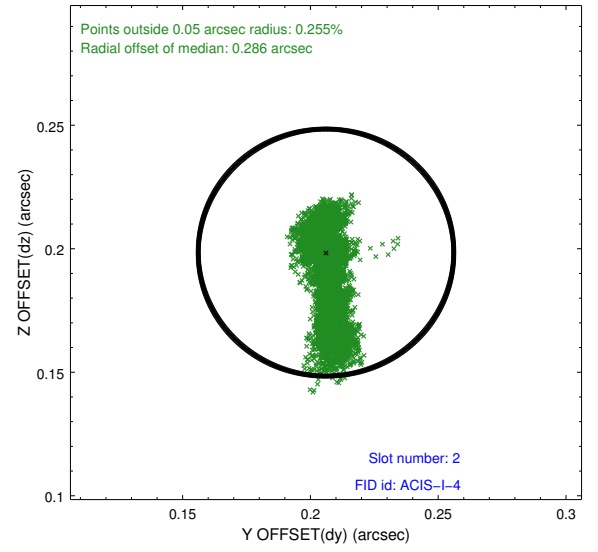
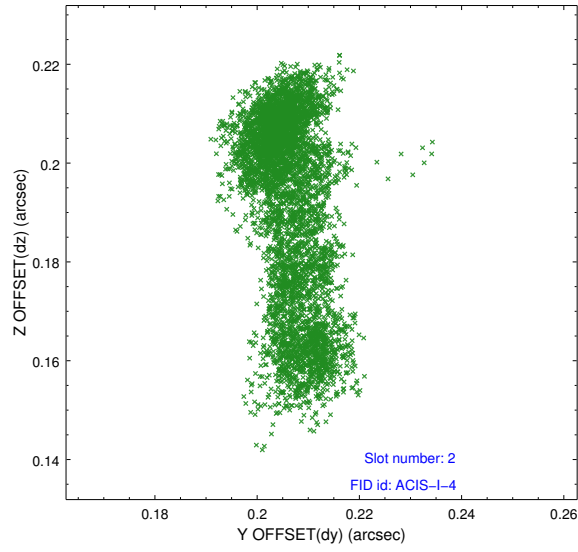
2.5.1 Slot 0



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)	2016.08.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.765603342652

A.2 Comments