

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18767 - L2 Version 1
Chandra X-Ray Center

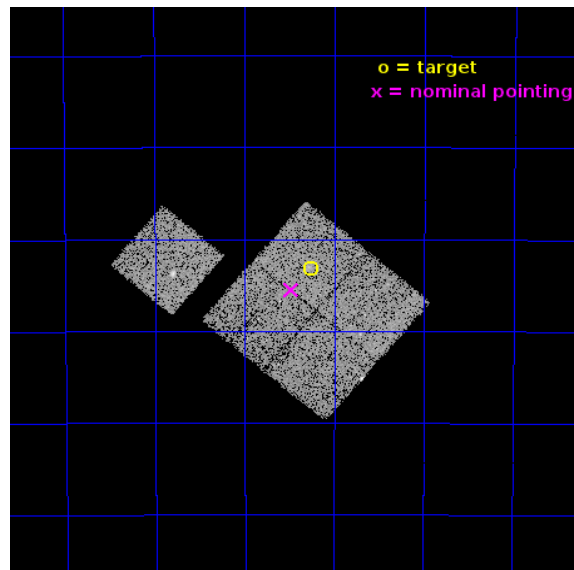
L2 Processing Date : Feb 18 2016

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1 Front

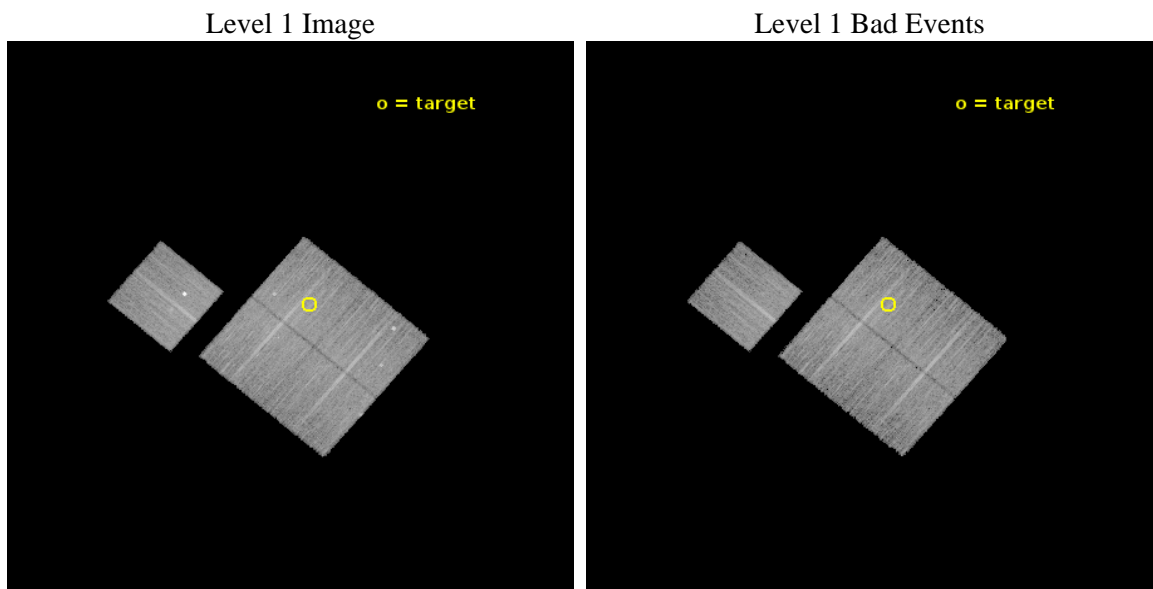
seq_num	801489	Sequence number
obs_id	18767	Observation id
title	A MASS-LIMITED SURVEY OF GALAXY CLUSTERS AT $1.2 < z < 1.7$: PROBING THE PHYSICS OF THE ICM DURING ITS ASSEMBLY	Proposal title
observer	Dr Michael McDonald	Principal investigator
object	SPT-CLJ0640-5113	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	100.065	Observer's specified target RA [deg]
dec_targ	-51.220389	Observer's specified target Dec [deg]
ra_nom	100.11950537004	Nominal RA [deg]
dec_nom	-51.258503389033	Nominal Dec [deg]
roll_nom	310.25115020417	Nominal Roll [deg]
revision	1	Processing version of data
ontime	14052.259037971	Sum of GTIs [s]
livetime	13868.655928518	Livetime [s]
ontime0	14055.400108218	Sum of GTIs [s]
ontime1	14055.400108218	Sum of GTIs [s]
ontime2	14052.259027839	Sum of GTIs [s]
ontime3	14052.259037971	Sum of GTIs [s]
ontime6	14052.25908792	Sum of GTIs [s]
l2events	40296	Number of level 2 events



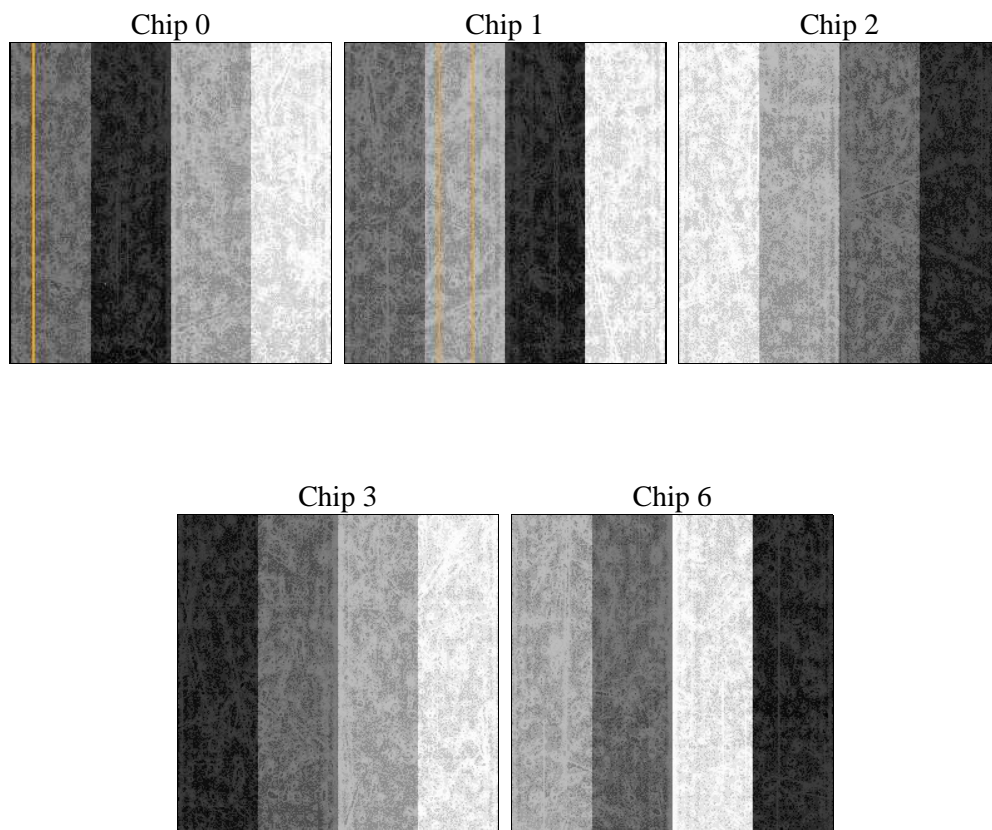
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	14052.259037971	Sum of GTIs [s]
caldsver	4.7.0	 	ontime0	14055.400108218	Sum of GTIs [s]
date	2016-02-18T16:34:10	Date and time of file creation	ontime1	14055.400108218	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	14052.259027839	Sum of GTIs [s]
			ontime3	14052.259037971	Sum of GTIs [s]
			ontime6	14052.25908792	Sum of GTIs [s]
			l1events	424360	Number of level 1 events

2.1.4 Events

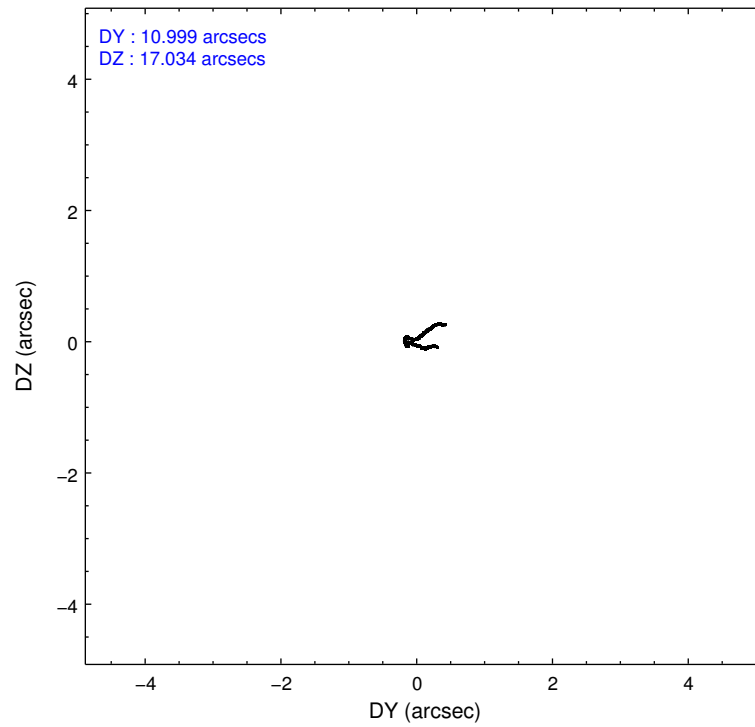
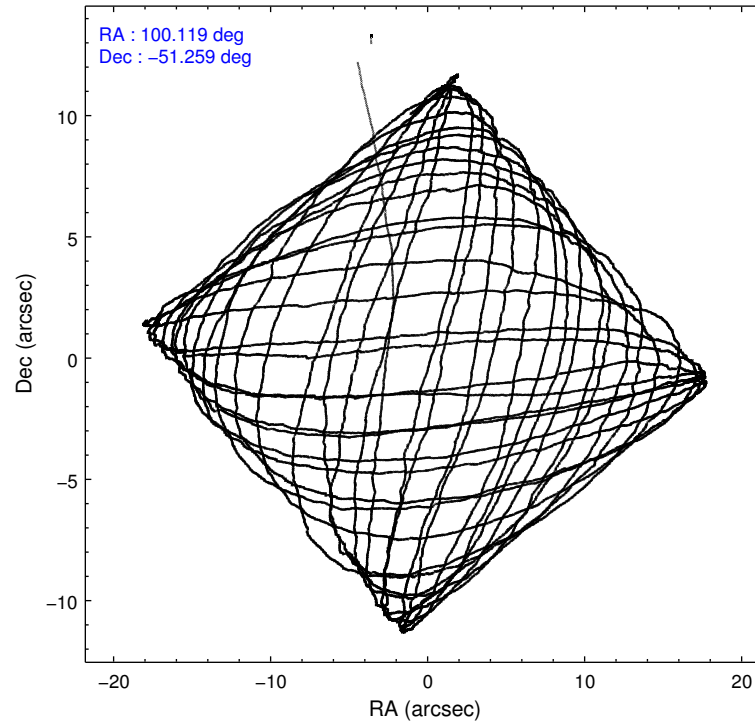
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	77198	84076	87218	85524	90344
rejected events	67558	72131	78239	75992	76338
rejected %	87%	85%	89%	88%	84%

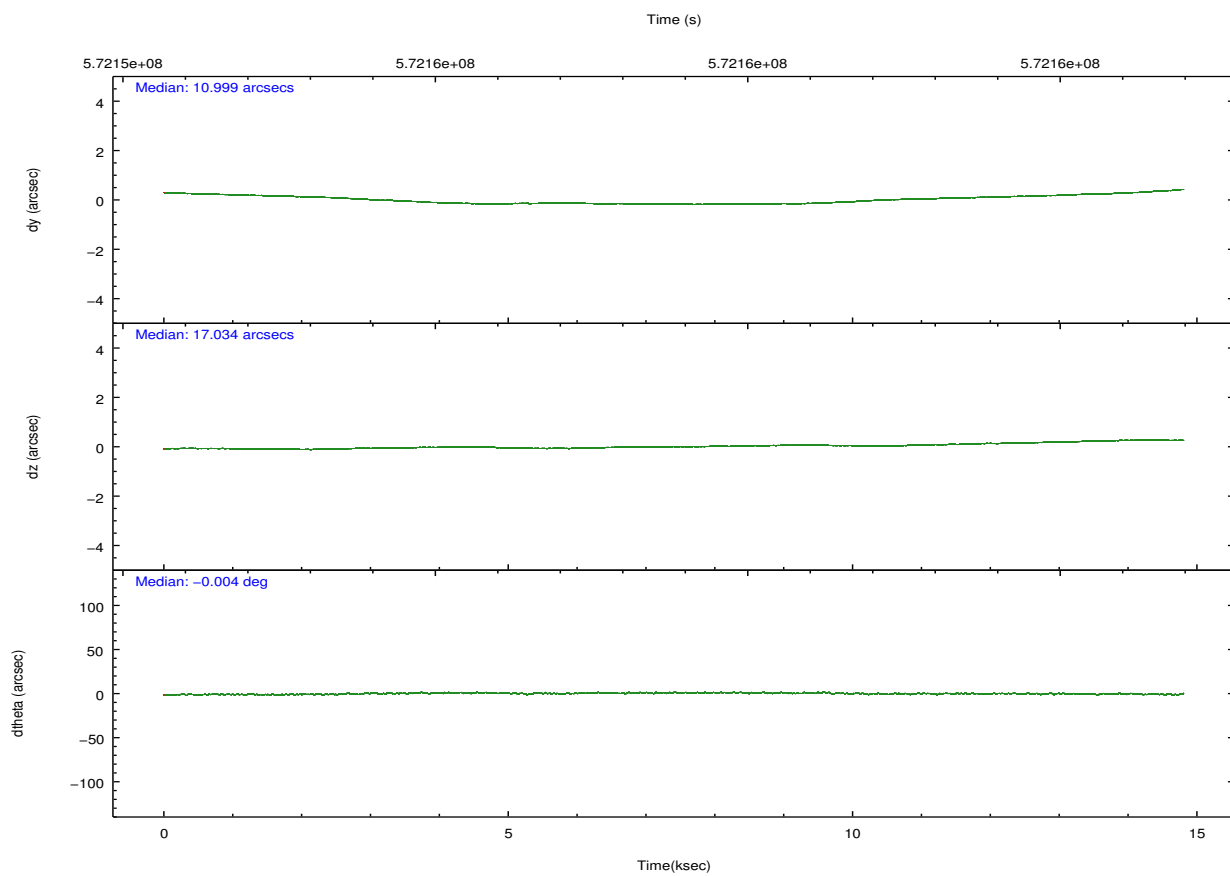
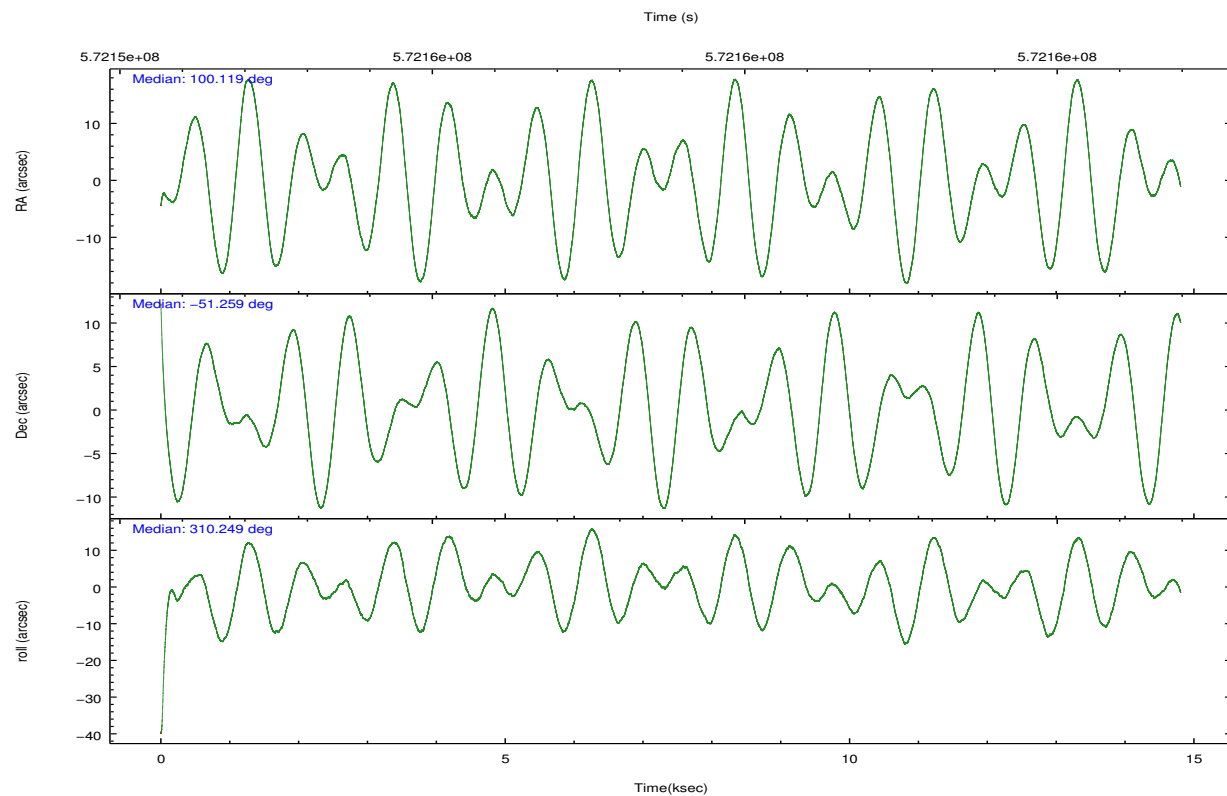
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3403	5050	3345	3620	7525
	4%	6%	3%	4%	8%
grade 1 events	43	44	53	59	76
	0%	0%	0%	0%	0%
grade 2 events	2325	2433	2175	2034	2267
	3%	2%	2%	2%	2%
grade 3 events	987	1025	854	975	921
	1%	1%	0%	1%	1%
grade 4 events	916	1001	908	873	984
	1%	1%	1%	1%	1%
grade 5 events	3683	3787	3244	4062	3891
	4%	4%	3%	4%	4%
grade 6 events	2013	2442	1698	2035	2316
	2%	2%	1%	2%	2%
grade 7 events	63828	68294	74941	71866	72364
	82%	81%	85%	84%	80%

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	100.077927	100.1195053700395	CCD I2 on	Y	Y
[deg] Pointing Dec	-51.249258	-51.25850338903284	CCD I3 on	Y	Y
[deg] Pointing Roll	310.010068	310.2511502041714	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	-225.842463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	572152231.184000	572150614.37596	CCD S5 on	N	N
Observation start date	2016-02-18T03:09:23	2016-02-18T02:43:34	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	572166231.184000	572167722.65194	On-chip summing requested	N	N
Observation end date	2016-02-18T07:02:43	2016-02-18T07:28:42	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



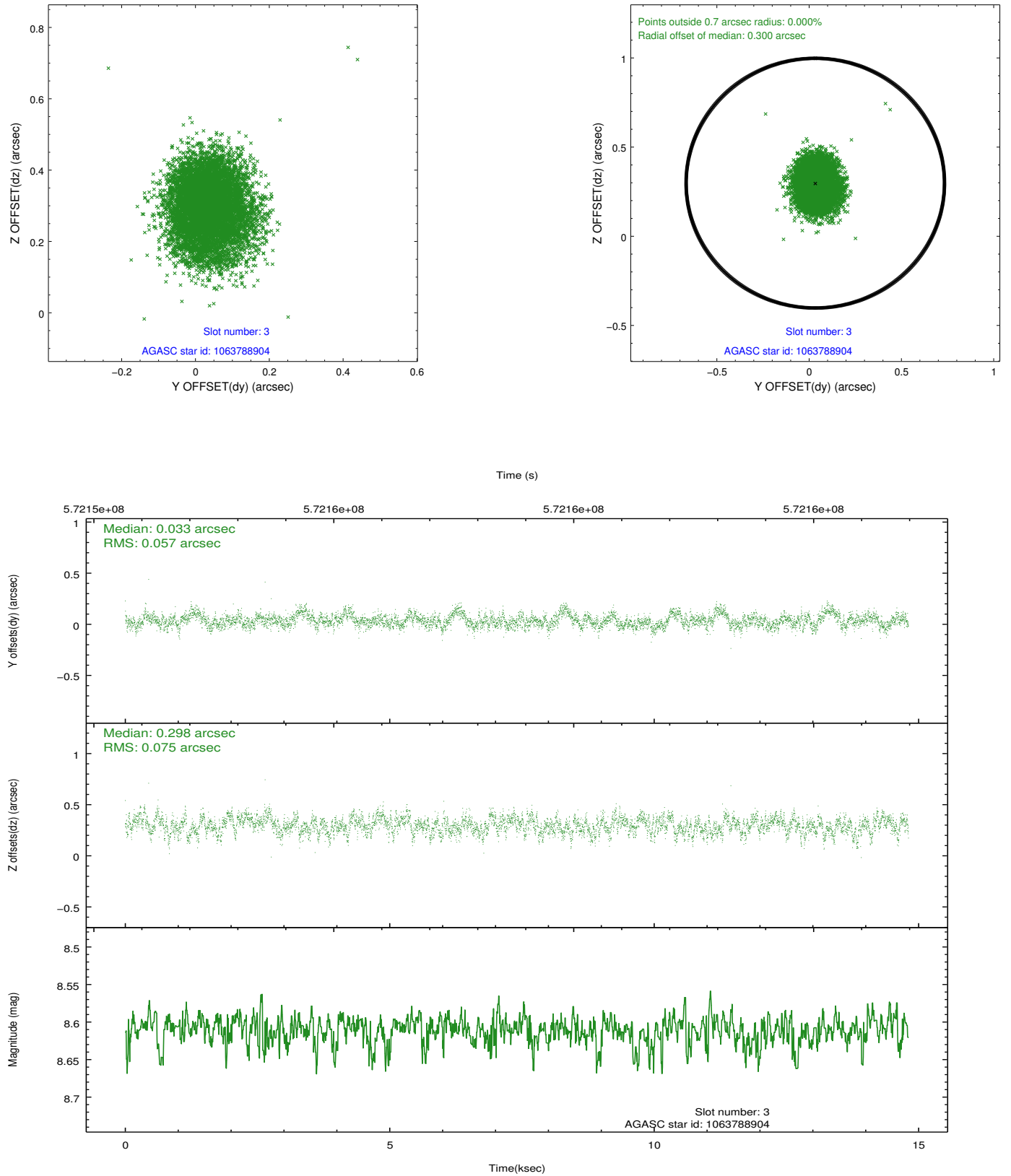


Slot Statistics

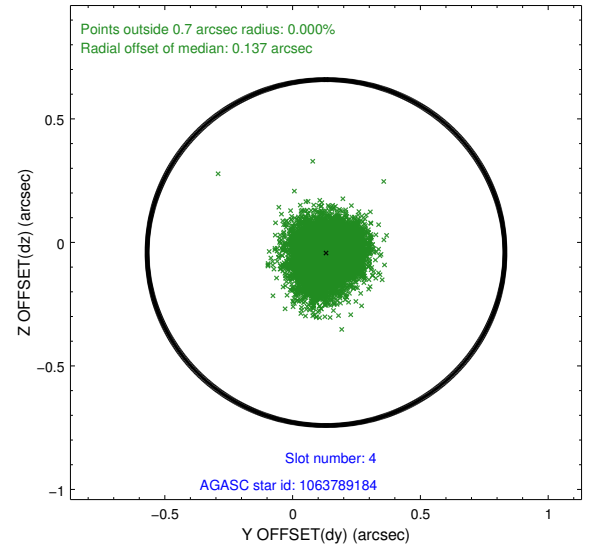
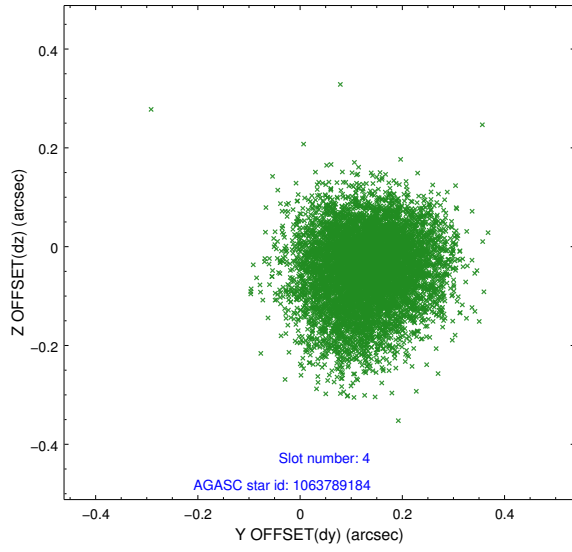
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	3612	0.160	-0.144	0.008	0.015	0.000000	0.000000	928.60	-999.91
1	FID		ACIS-I-5	7.23	3610	-0.326	0.116	0.006	0.011	0.000000	0.000000	-1819.89	897.54
2	FID		ACIS-I-6	7.27	3611	0.075	0.099	0.008	0.014	0.000000	0.000000	393.64	1542.46
3	GUIDE	used	1063788904	8.61	7219	0.033	0.298	0.100	0.162	99.169777	-51.429850	-802.41	-1986.71
4	GUIDE	used	1063789184	8.76	7215	0.131	-0.041	0.109	0.176	100.183029	-51.669286	1311.50	-793.53
5	GUIDE	used	1063792392	9.14	7219	-0.348	-0.234	0.178	0.265	101.124908	-51.322233	1728.61	1624.44
6	GUIDE	used	1063793104	8.83	7223	0.100	-0.235	0.140	0.240	99.814404	-50.932863	-1255.29	273.92
7	GUIDE	used	1063796224	8.29	7220	0.077	0.231	0.099	0.156	98.682895	-51.216391	-2091.09	-2351.75

2.4 Star Slots

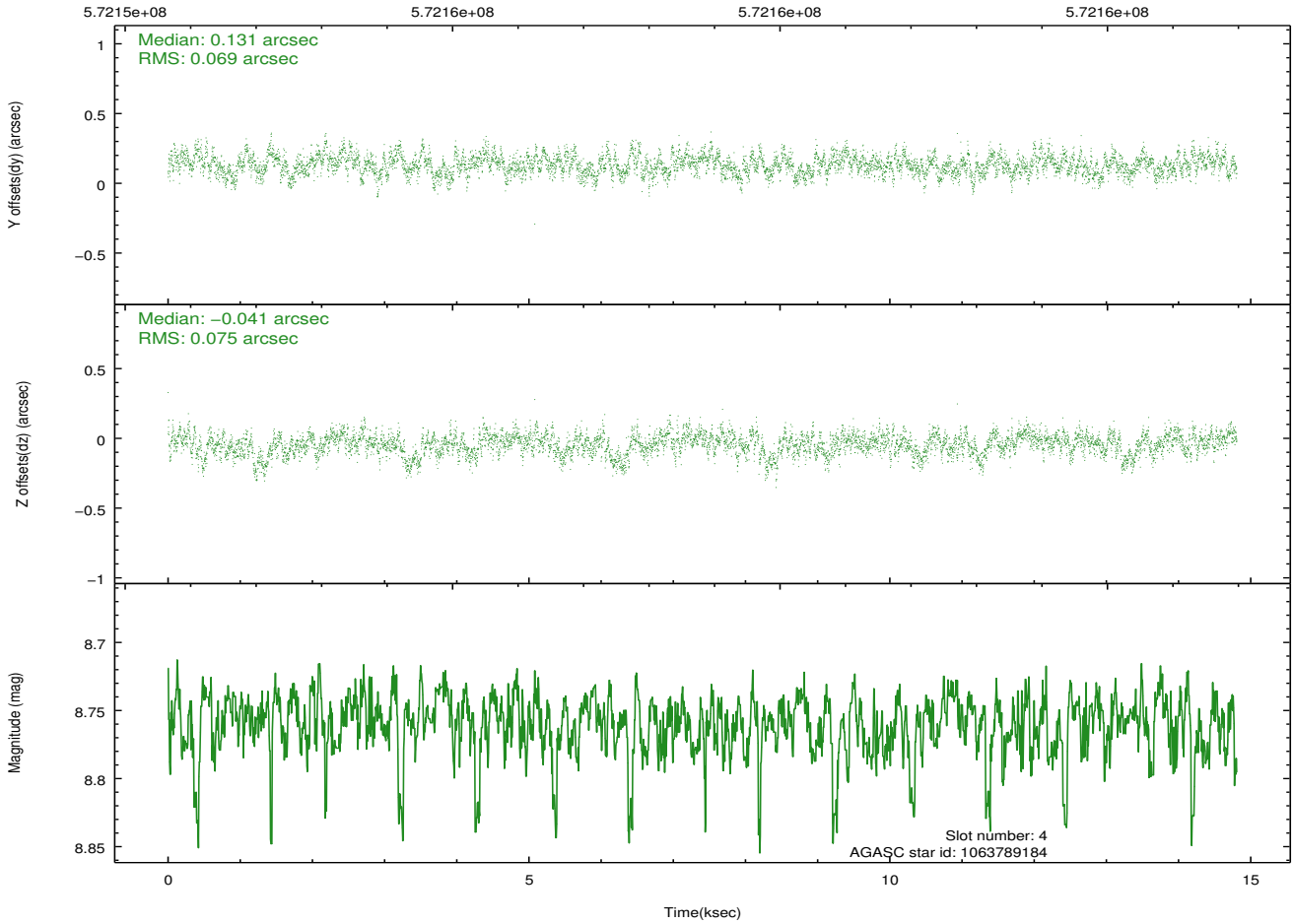
2.4.1 Slot 3



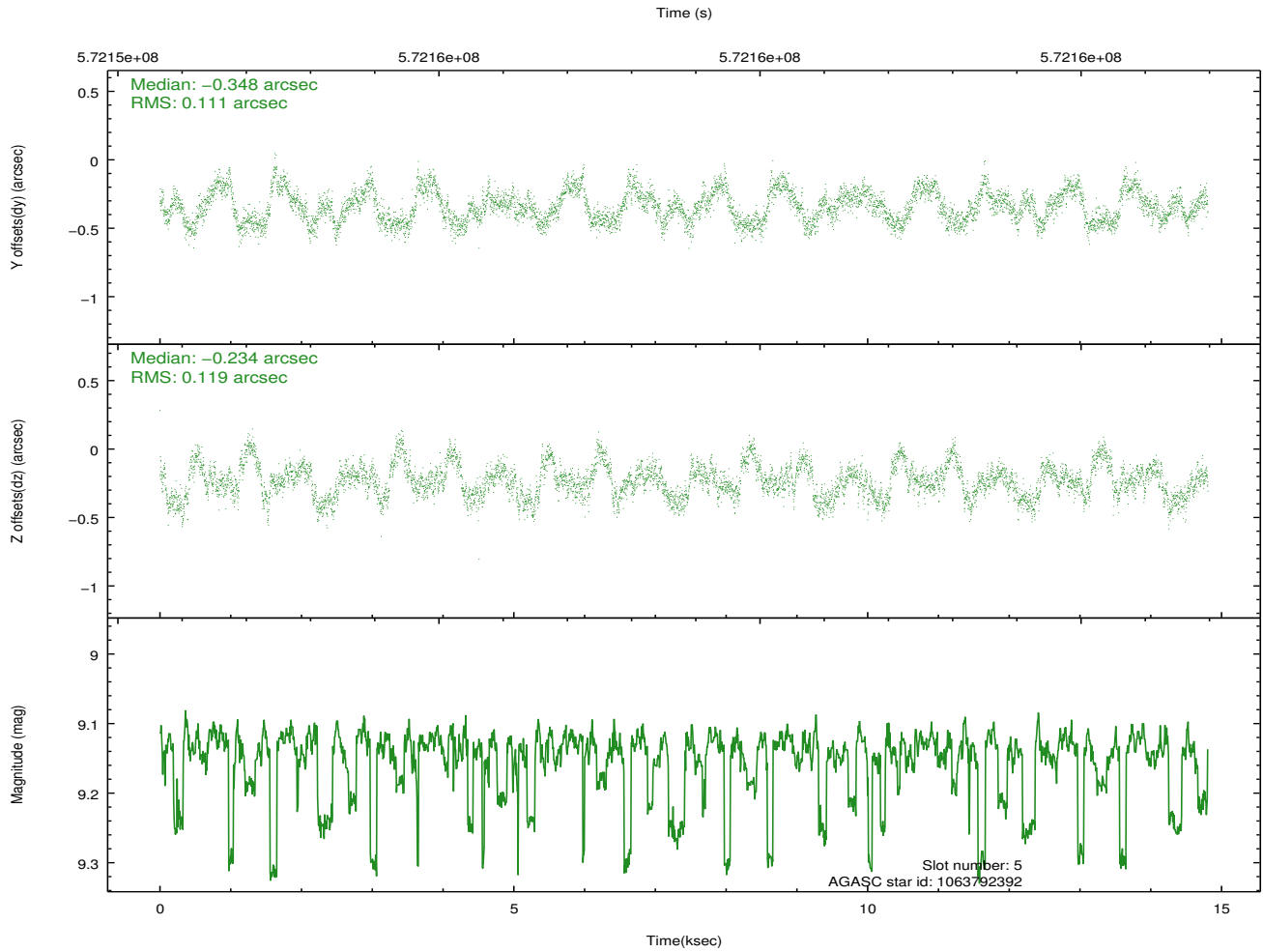
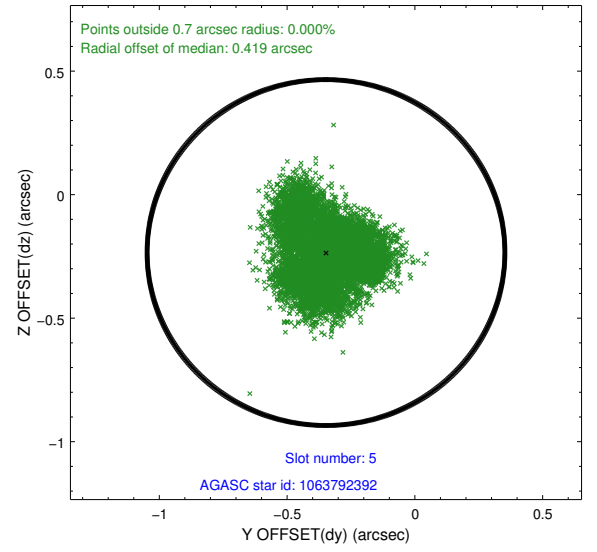
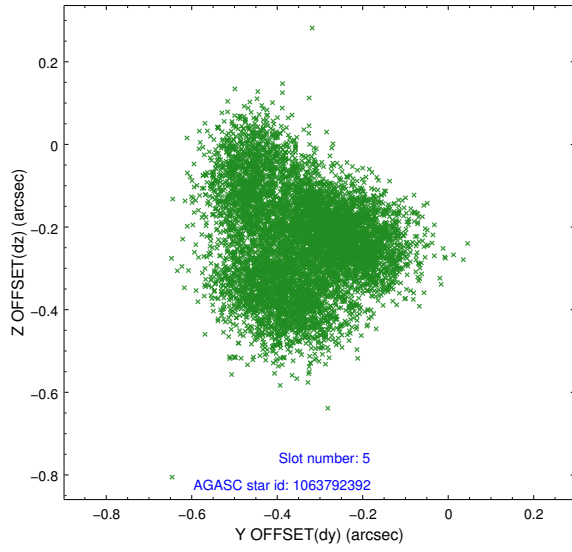
2.4.2 Slot 4



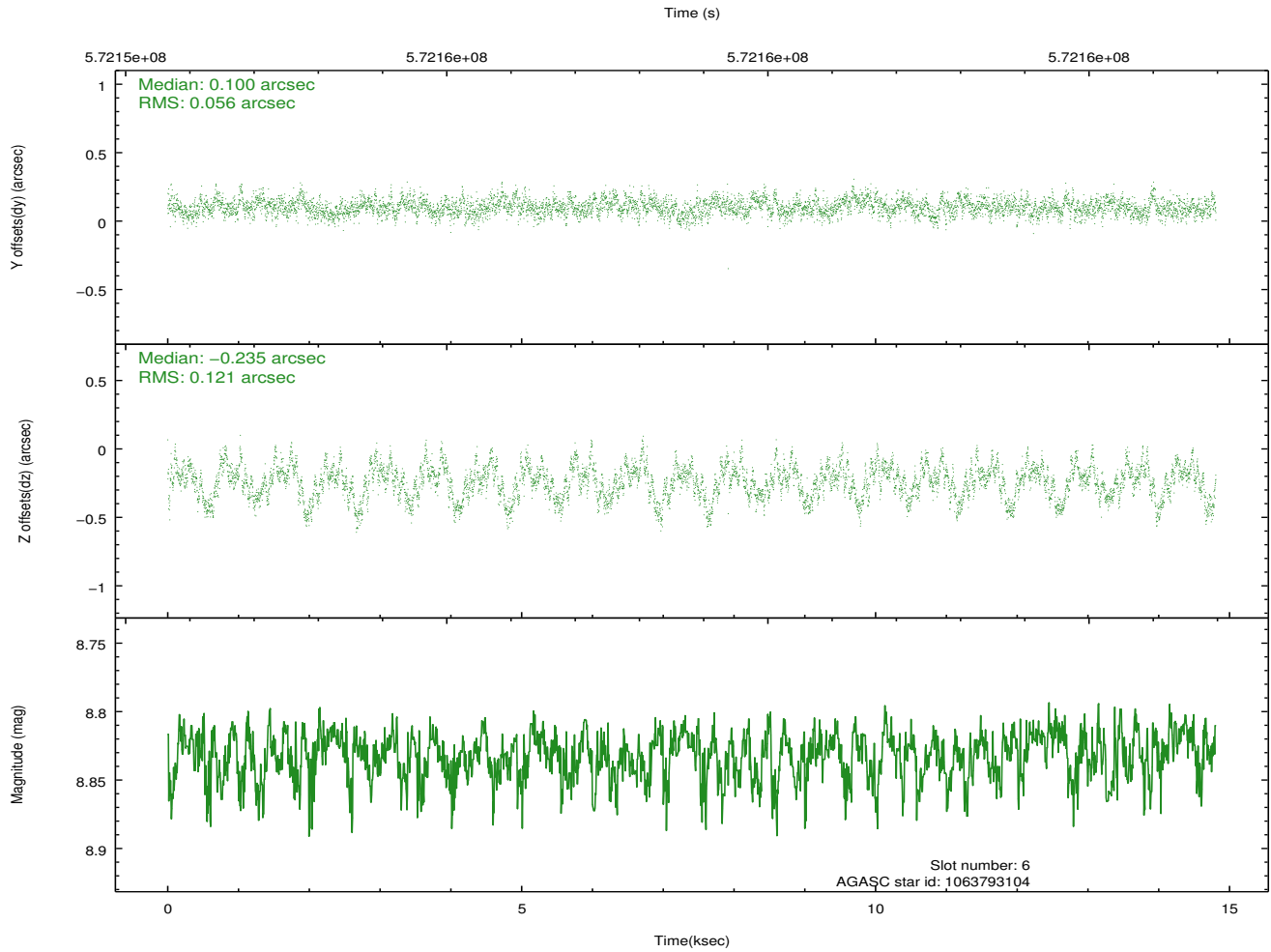
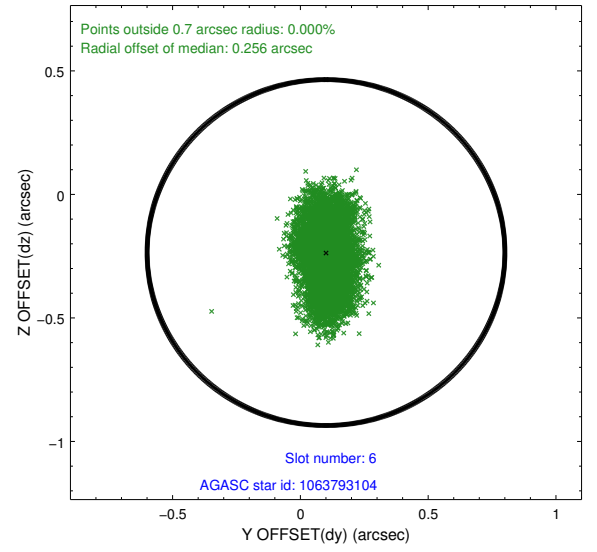
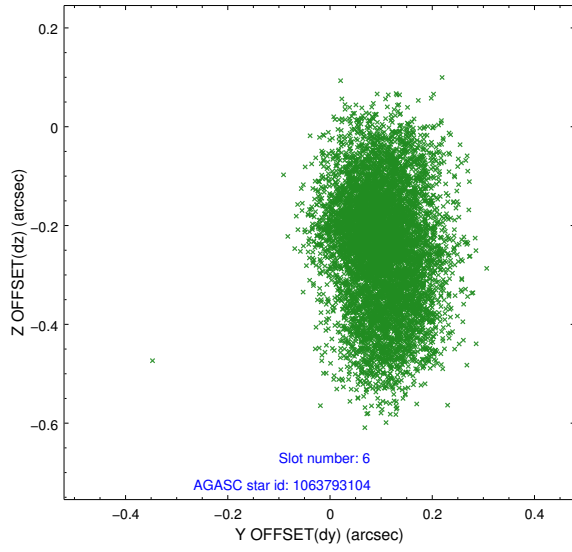
Time (s)



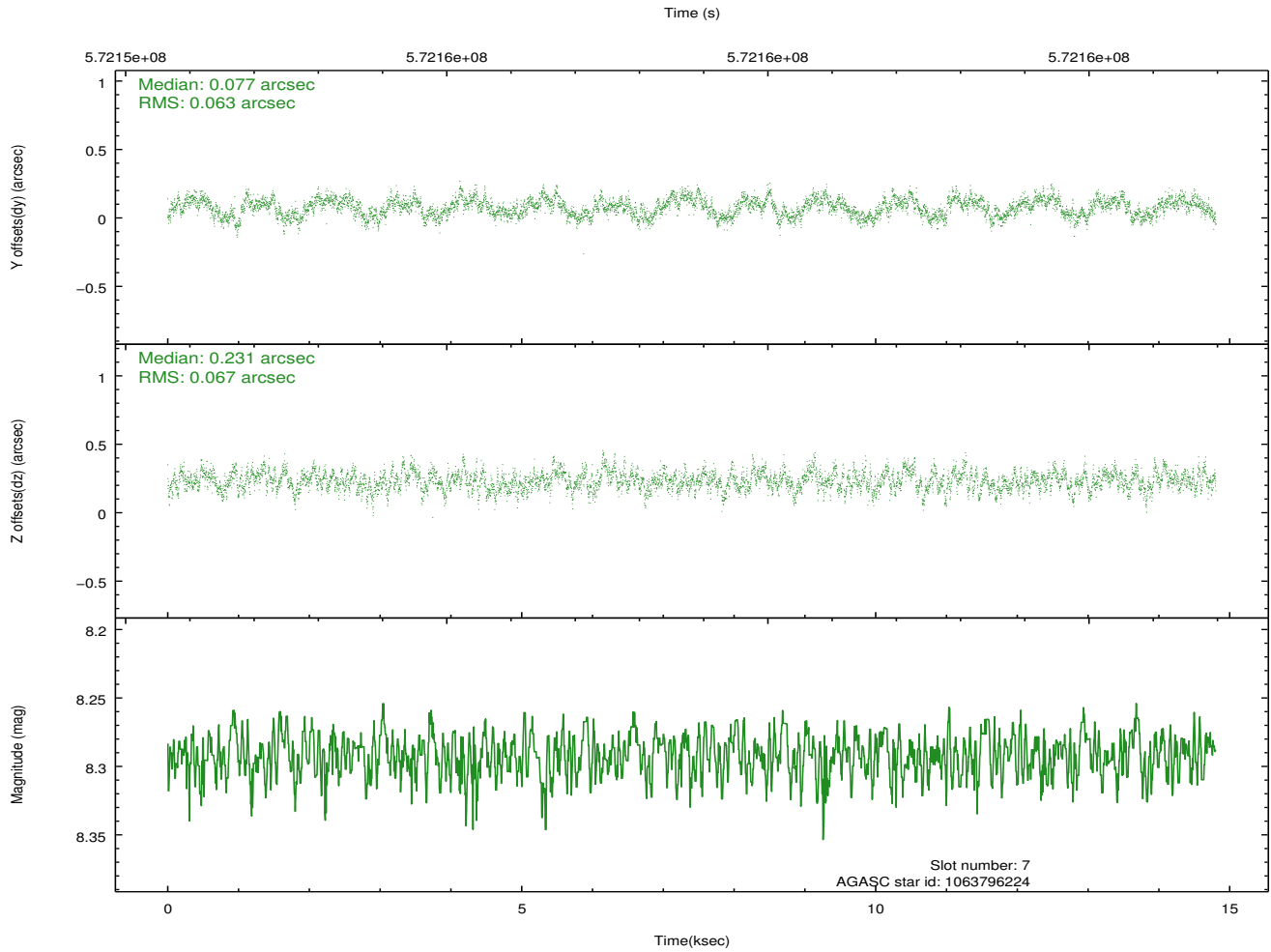
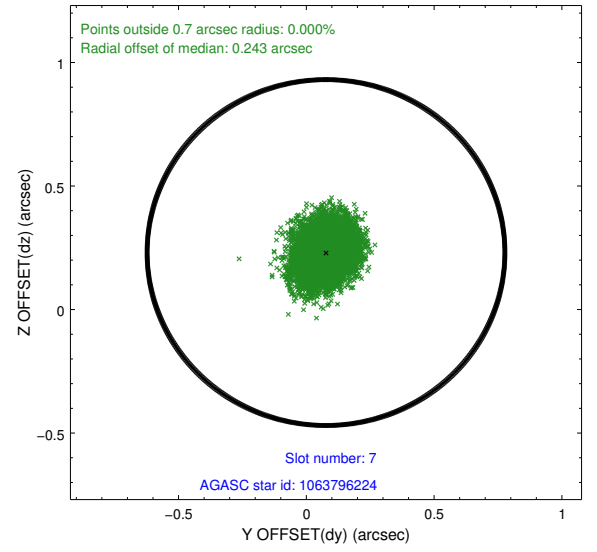
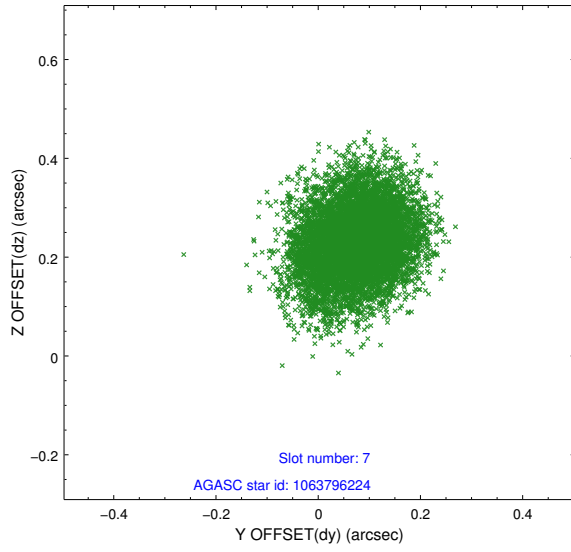
2.4.3 Slot 5



2.4.4 Slot 6

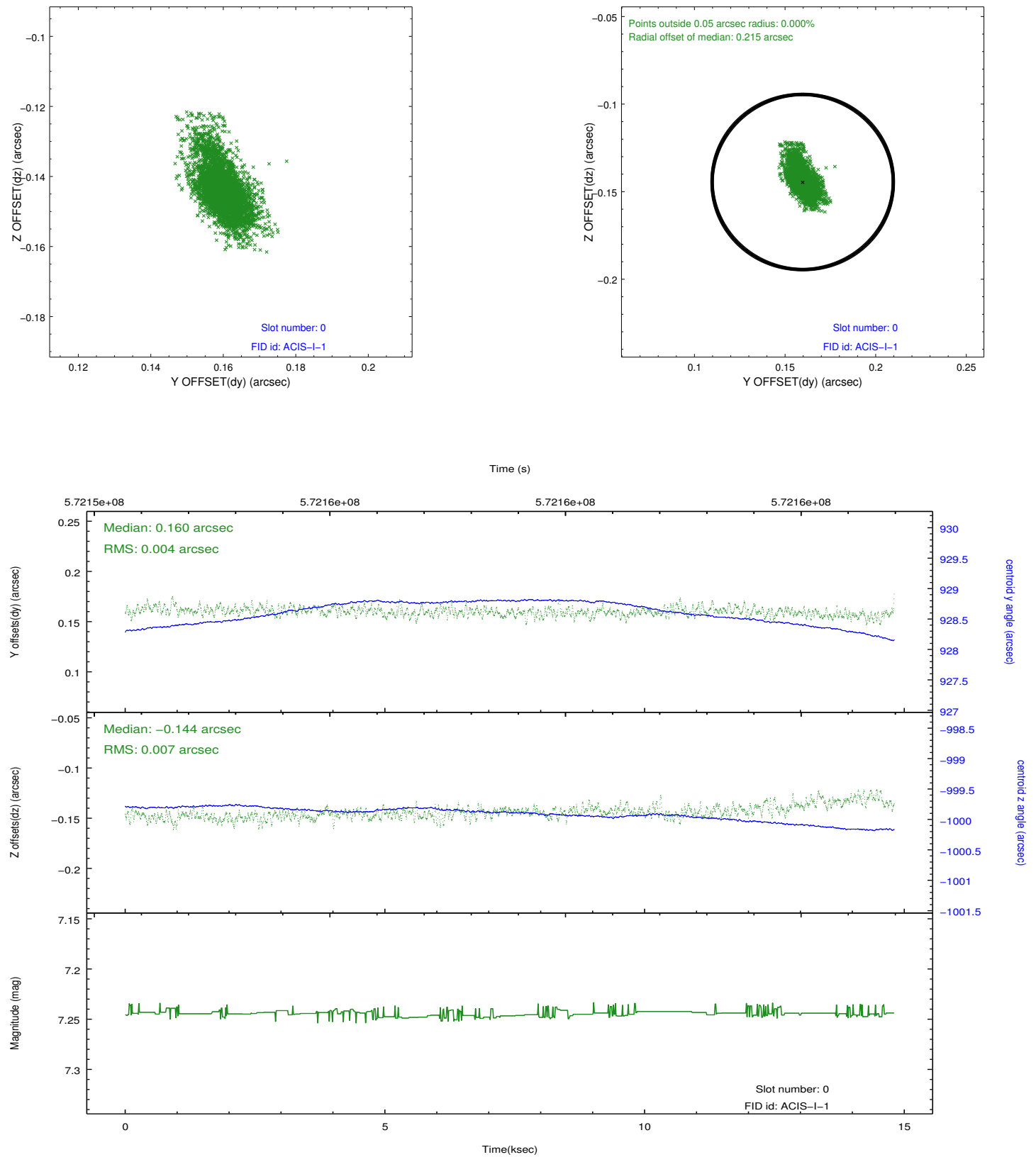


2.4.5 Slot 7

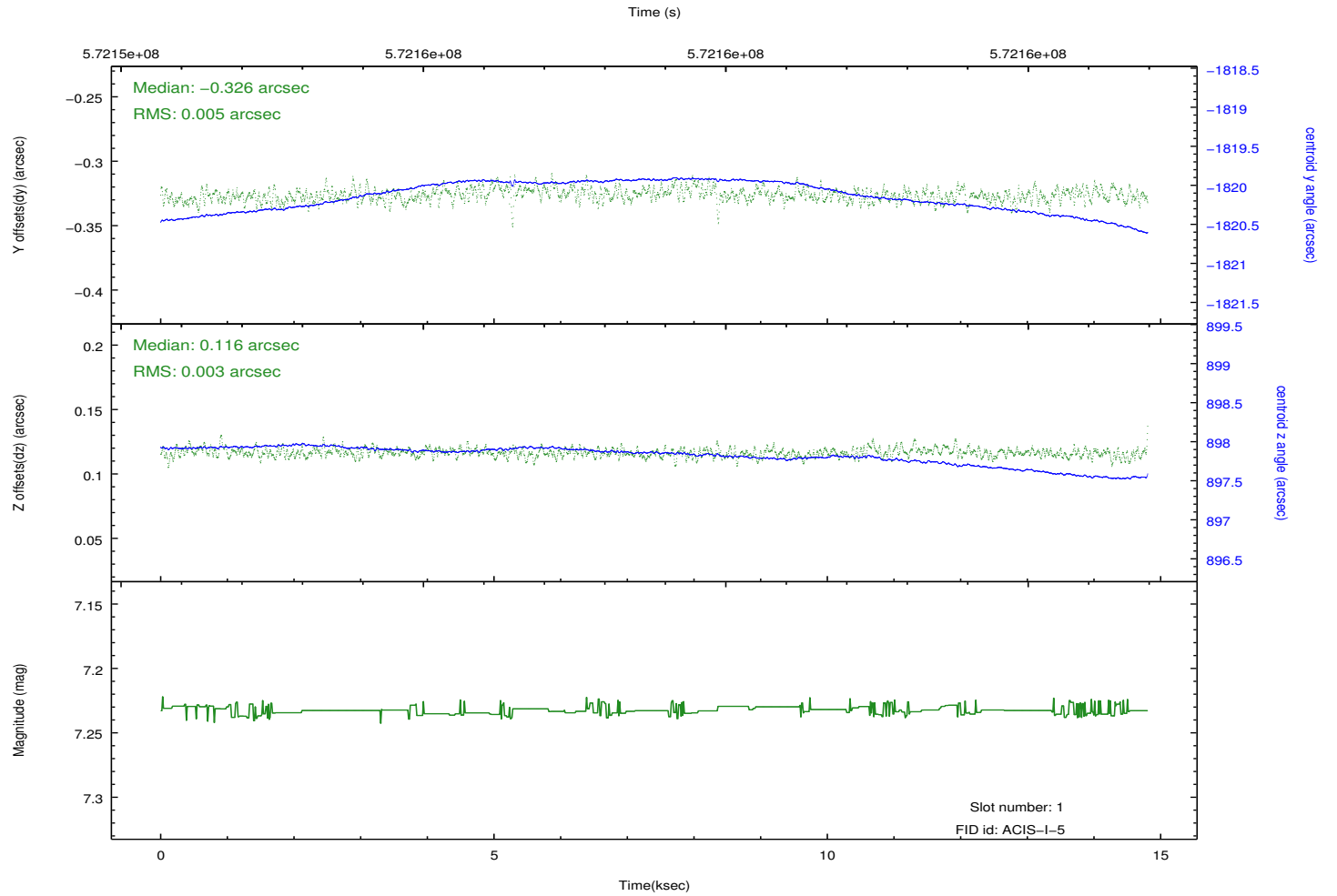
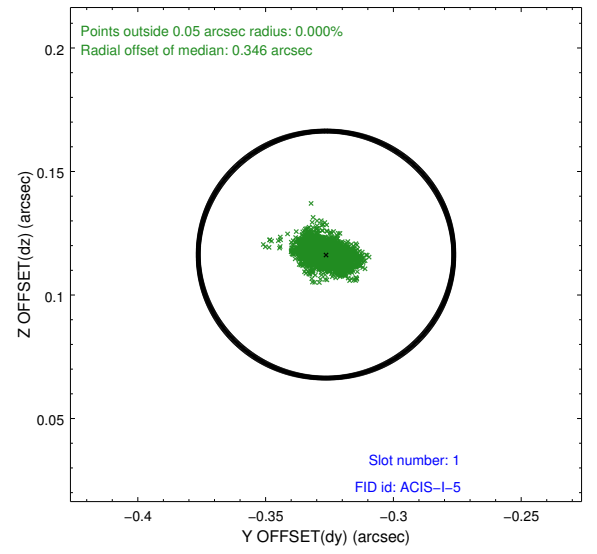
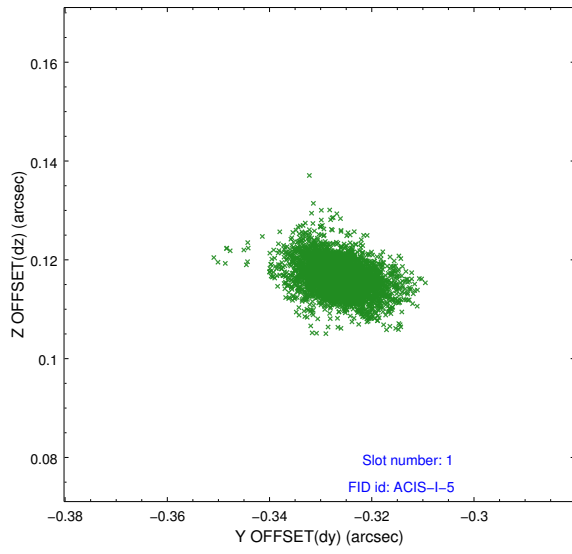


2.5 FID Slots

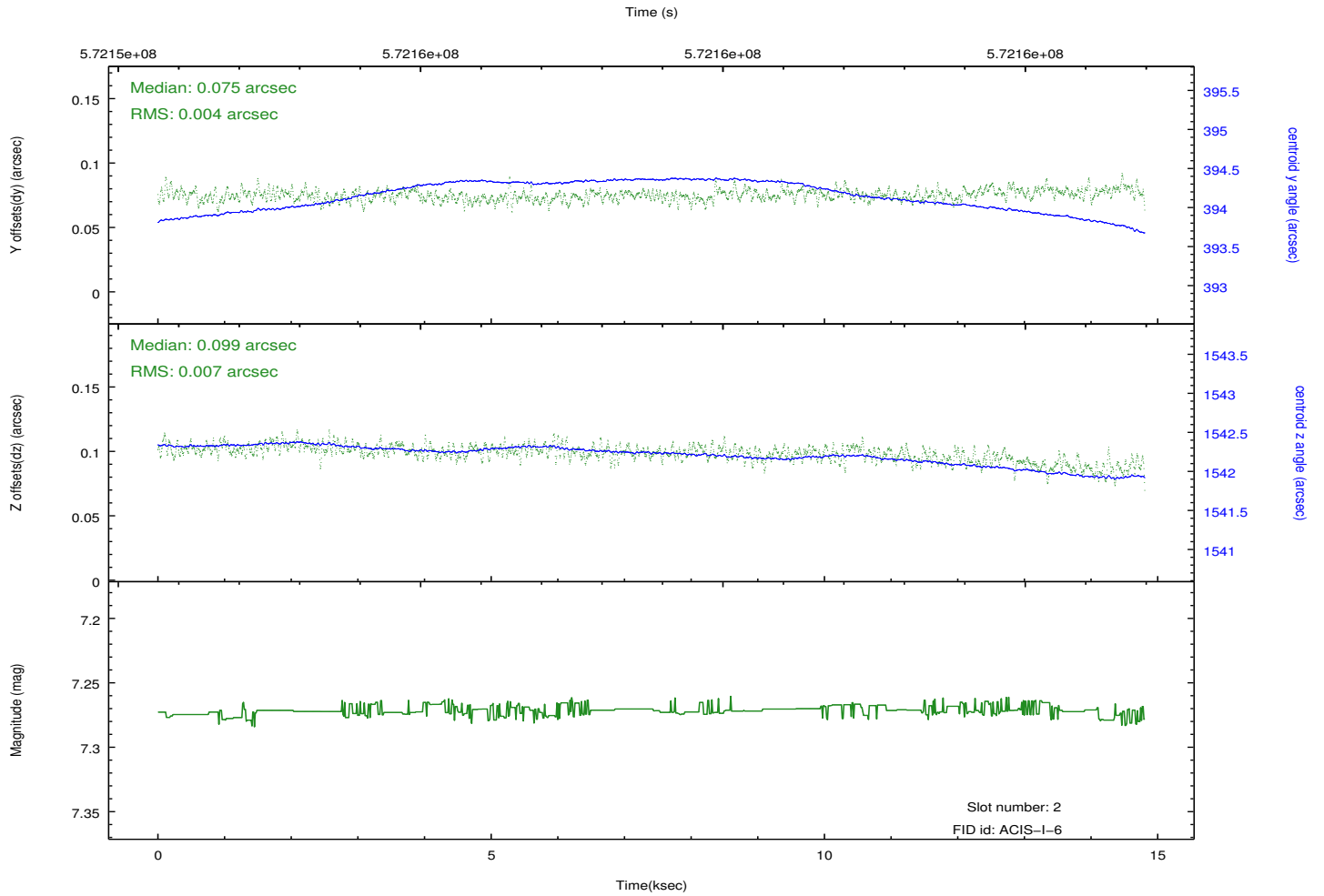
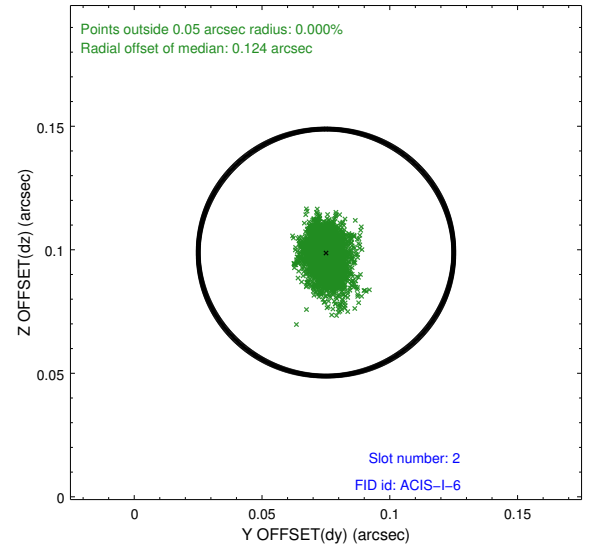
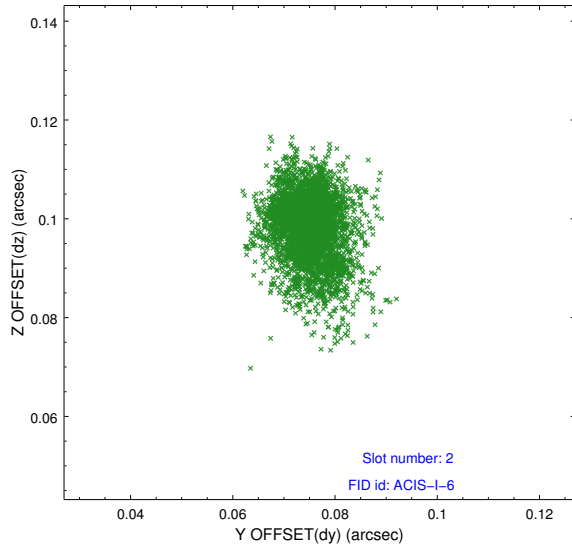
2.5.1 Slot 0



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)	2016.02.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.052259037971

A.2 Comments