

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17159 - L2 Version 1
Chandra X-Ray Center

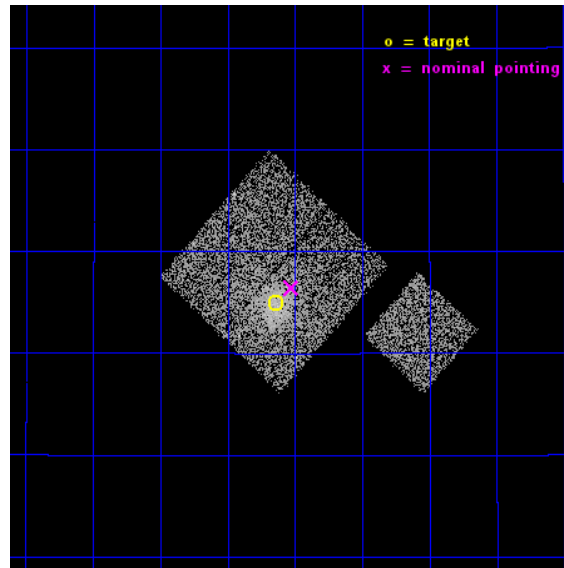
L2 Processing Date : Mar 23 2015

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1 Front

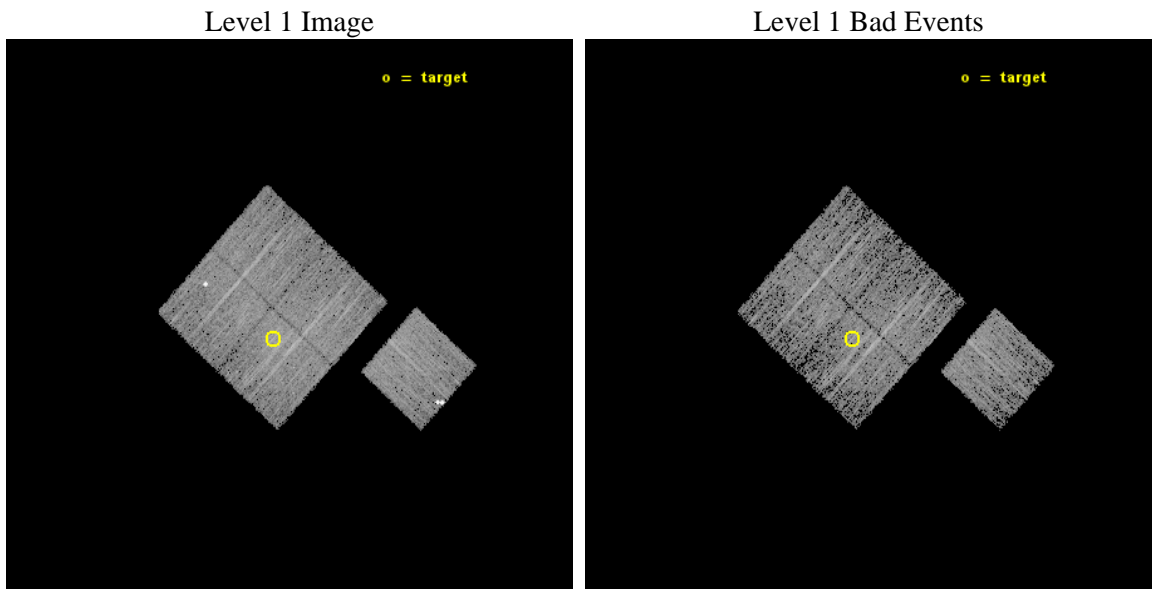
seq_num	801447	Sequence number
obs_id	17159	Observation id
title	Chandra Calibration of the Richness-Mass Relation of Galaxy Clusters: Enabling Cluster Cosmology with the DES	Proposal title
observer	Dr. Eduardo Rozo	Principal investigator
object	RM J133408.7+201453.0	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	203.53625	Observer's specified target RA [deg]
dec_targ	20.248056	Observer's specified target Dec [deg]
ra_nom	203.5065579886	Nominal RA [deg]
dec_nom	20.273864840489	Nominal Dec [deg]
roll_nom	132.37510646782	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7064.9000544548	Sum of GTIs [s]
livetime	6972.5919341396	Livetime [s]
ontime0	7064.9000544548	Sum of GTIs [s]
ontime1	7064.9000544548	Sum of GTIs [s]
ontime2	7064.9000544548	Sum of GTIs [s]
ontime3	7064.9000544548	Sum of GTIs [s]
ontime6	7064.9000544548	Sum of GTIs [s]
l2events	19143	Number of level 2 events



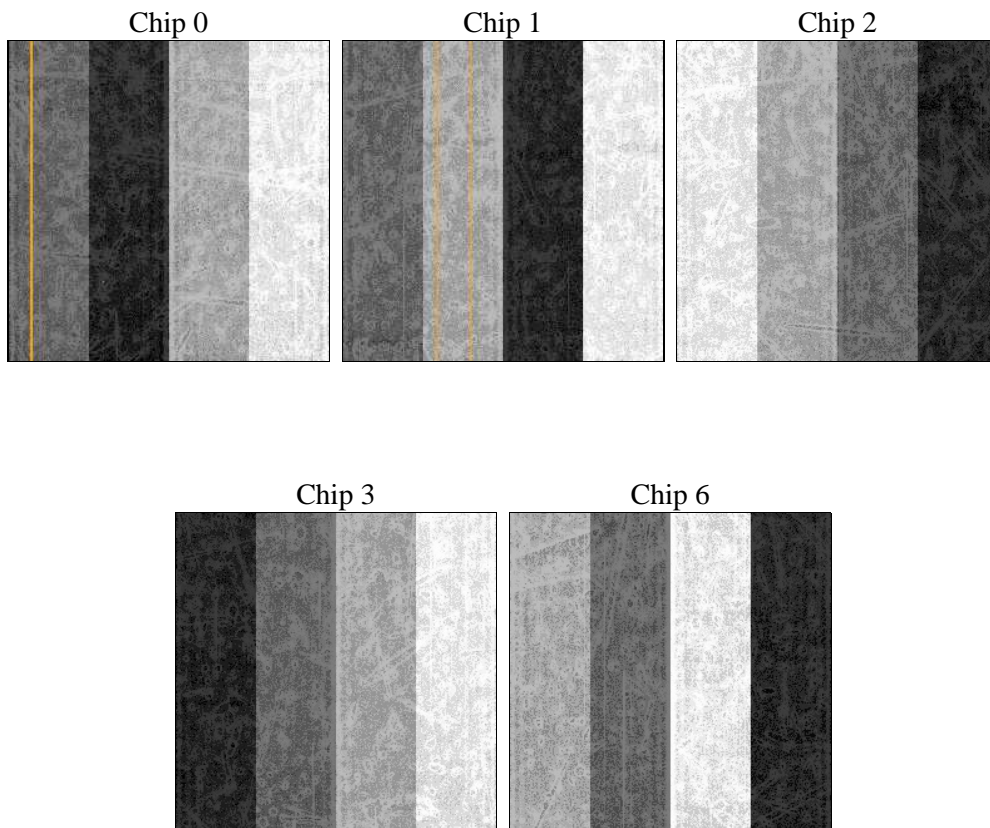
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	7064.9000544548	Sum of GTIs [s]
caldsver	4.6.7	 	ontime0	7064.9000544548	Sum of GTIs [s]
date	2015-03-23T14:43:18	Date and time of file creation	ontime1	7064.9000544548	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	7064.9000544548	Sum of GTIs [s]
			ontime3	7064.9000544548	Sum of GTIs [s]
			ontime6	7064.9000544548	Sum of GTIs [s]
			l1events	168348	Number of level 1 events

2.1.4 Events

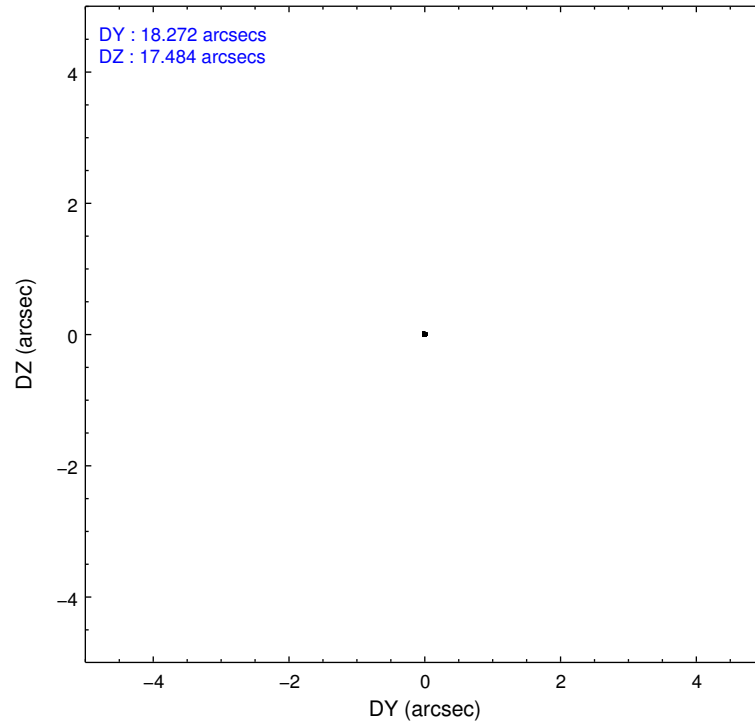
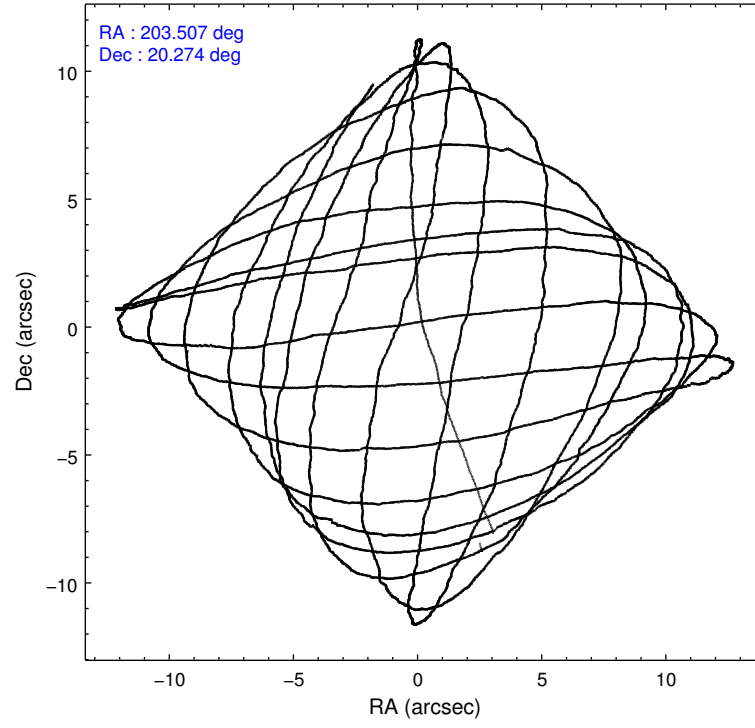
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	30213	33483	32077	34361	38214
rejected events	26327	26879	28314	28278	29923
rejected %	87%	80%	88%	82%	78%

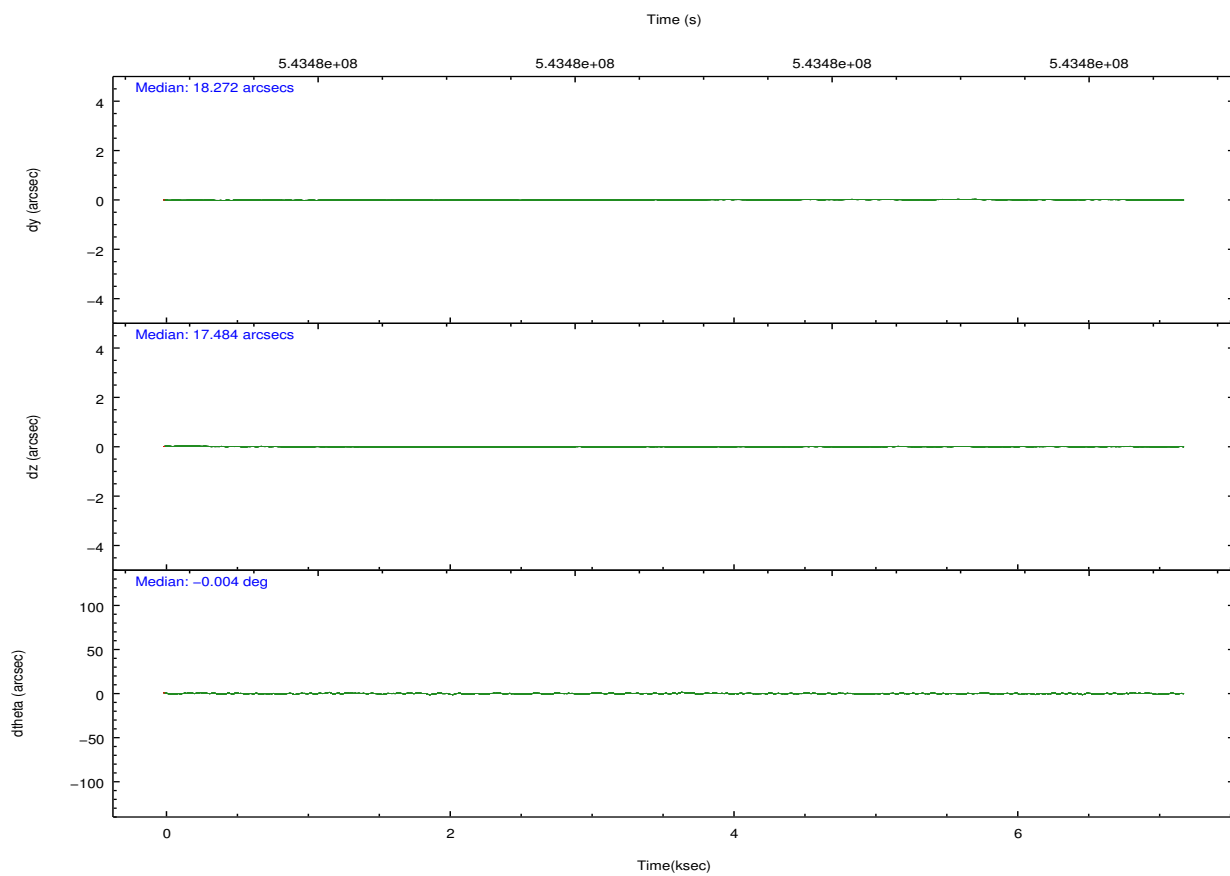
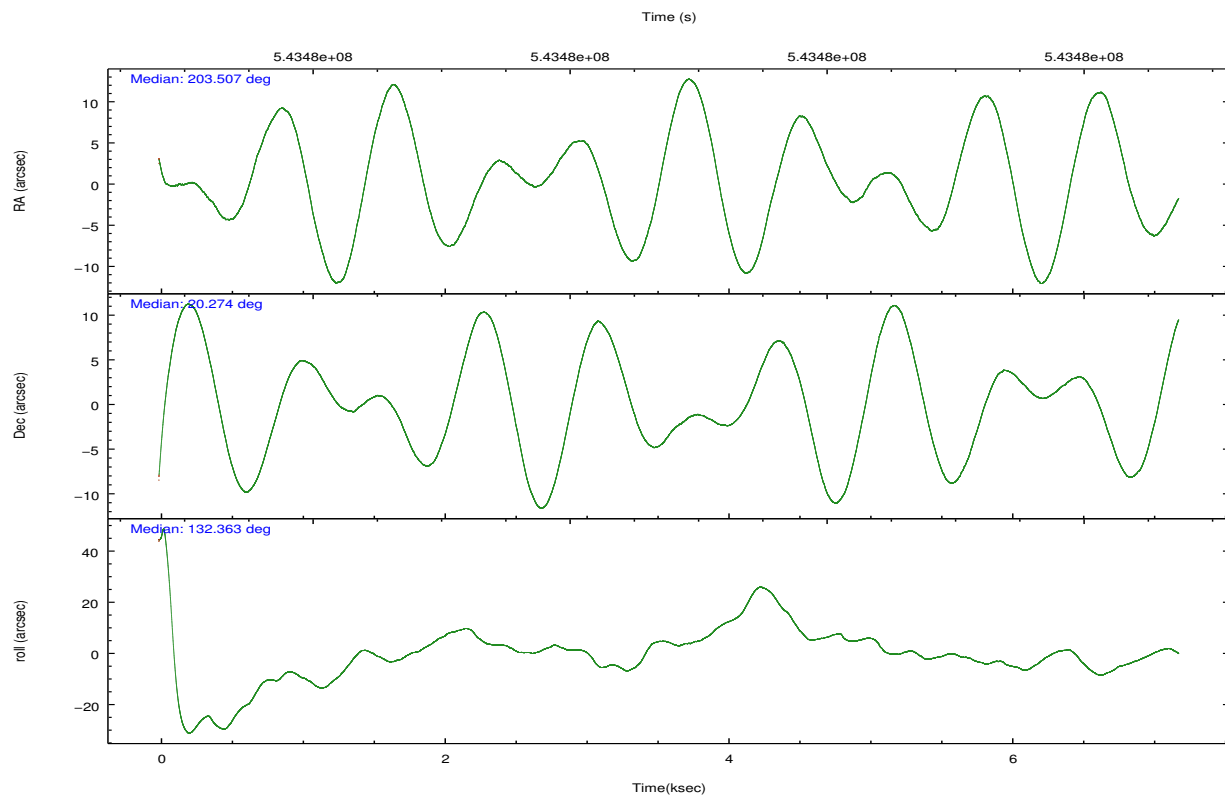
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1387	3840	1426	3301	5721
	4%	11%	4%	9%	14%
grade 1 events	19	14	18	42	15
	0%	0%	0%	0%	0%
grade 2 events	915	959	826	1044	885
	3%	2%	2%	3%	2%
grade 3 events	421	410	378	421	387
	1%	1%	1%	1%	1%
grade 4 events	345	410	403	454	345
	1%	1%	1%	1%	0%
grade 5 events	1470	1476	1378	1738	1648
	4%	4%	4%	5%	4%
grade 6 events	821	988	732	866	960
	2%	2%	2%	2%	2%
grade 7 events	24835	25386	26916	26495	28253
	82%	75%	83%	77%	73%

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	203.534660	203.5065579885983	CCD I2 on	Y	Y
[deg] Pointing Dec	20.265593	20.27386484048853	CCD I3 on	Y	Y
[deg] Pointing Roll	132.156541	132.3751064678215	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	-228.472463	-228.4783457680588	CCD S3 on	N	N
[mm] SIM translation stage offset	-5.12	-5.114107234870914	CCD S4 on	N	N
[s] Observation start time (MET)	543477353.184000	543475870.53161	CCD S5 on	N	N
Observation start date	2015-03-23T05:54:46	2015-03-23T05:31:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	543484353.184000	543485315.39464	On-chip summing requested	N	N
Observation end date	2015-03-23T07:51:26	2015-03-23T08:08:35	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



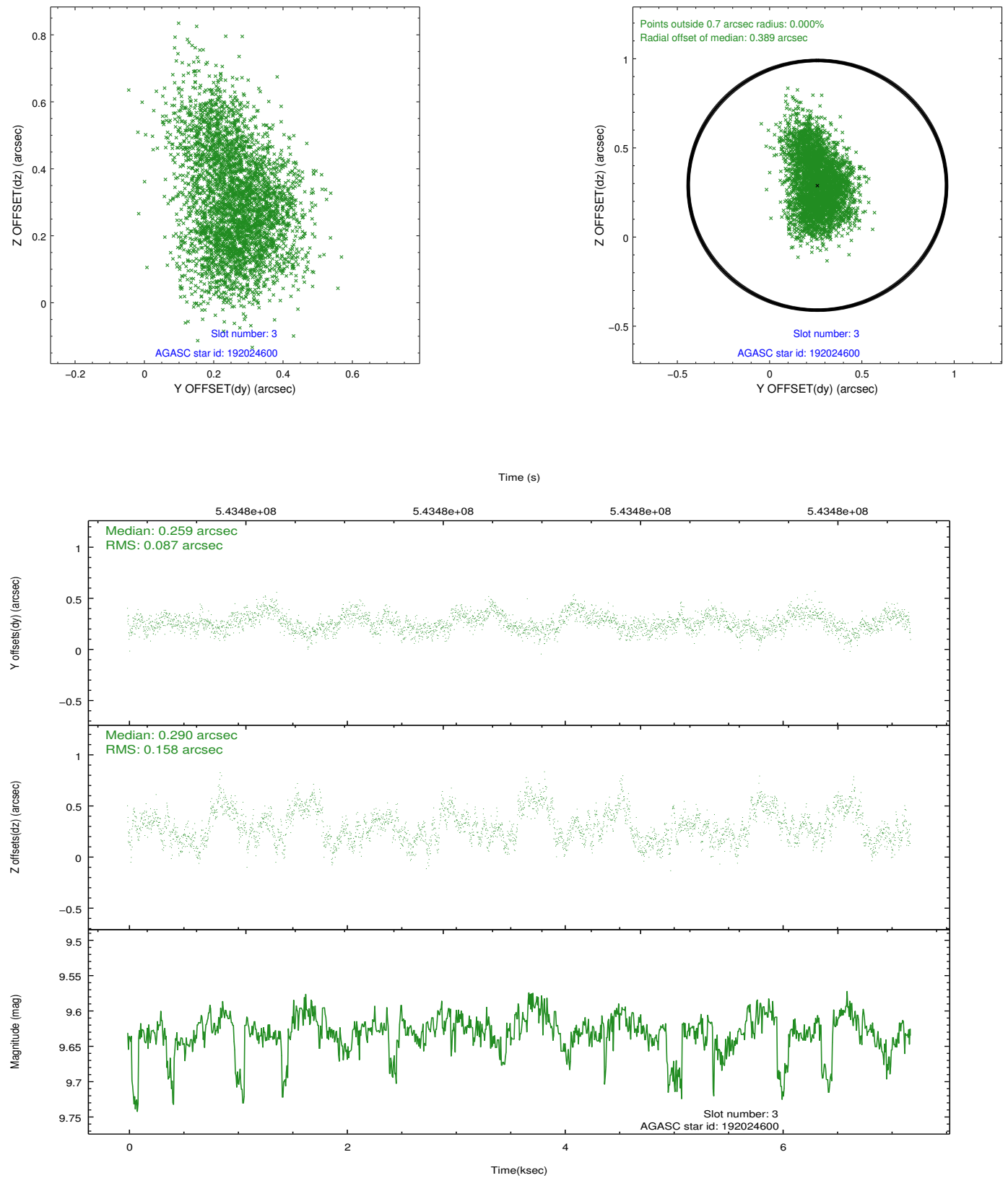


Slot Statistics

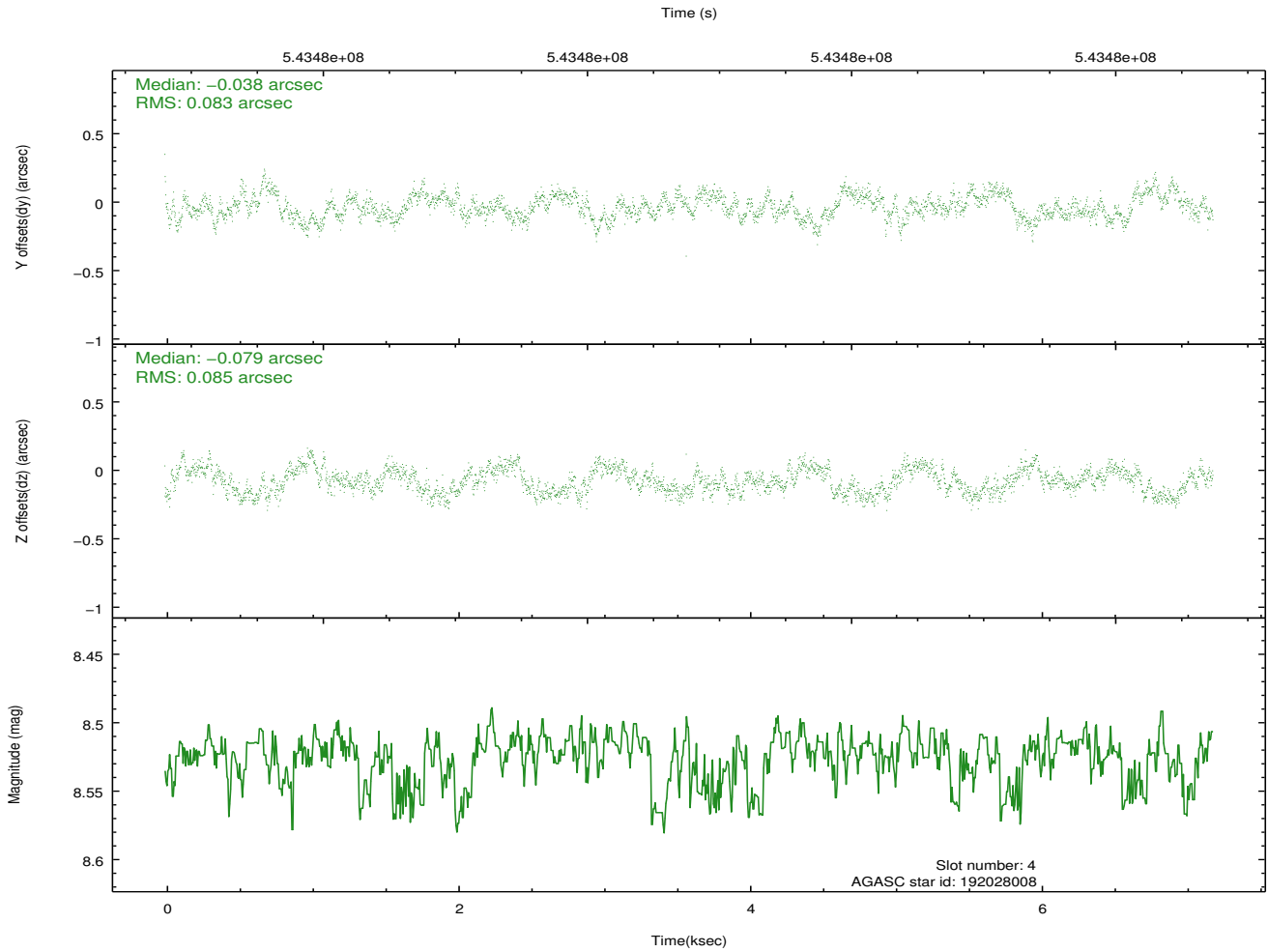
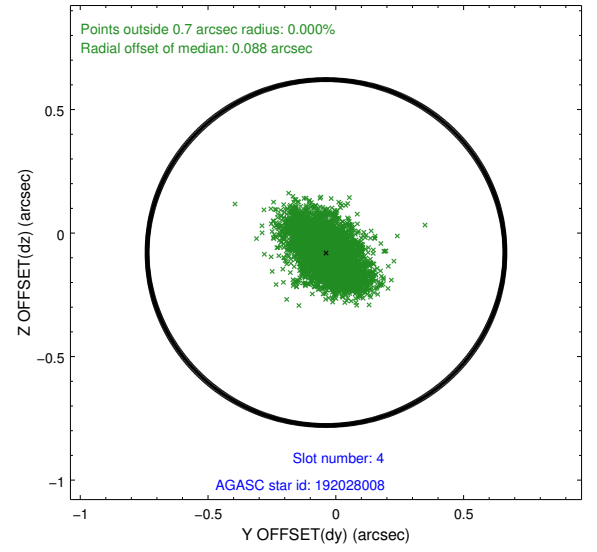
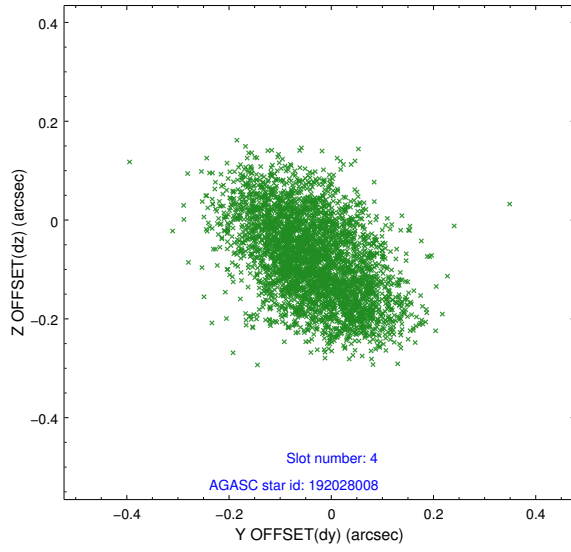
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	1754	0.105	-0.059	0.007	0.011	0.000000	0.000000	921.15	-946.12
1	FID		ACIS-I-5	7.25	1754	-0.333	0.072	0.007	0.012	0.000000	0.000000	-1827.04	950.93
2	FID		ACIS-I-6	7.25	1754	0.136	0.057	0.007	0.011	0.000000	0.000000	385.75	1596.41
3	GUIDE	used	192024600	9.63	3505	0.259	0.290	0.190	0.312	204.039234	20.639675	-139.98	-2165.32
4	GUIDE	used	192028008	8.52	3505	-0.038	-0.079	0.128	0.202	203.673045	20.646363	704.33	-1265.83
5	GUIDE	used	192028464	8.77	3507	-0.014	-0.120	0.105	0.176	203.824743	20.607235	257.15	-1550.99
6	GUIDE	used	192028656	7.51	3507	-0.049	0.110	0.108	0.179	203.783846	20.781884	816.91	-1867.99
7	GUIDE	used	192027336	10.50	3450	-0.168	-0.235	0.313	0.501	203.030127	20.570079	1956.05	523.01

2.4 Star Slots

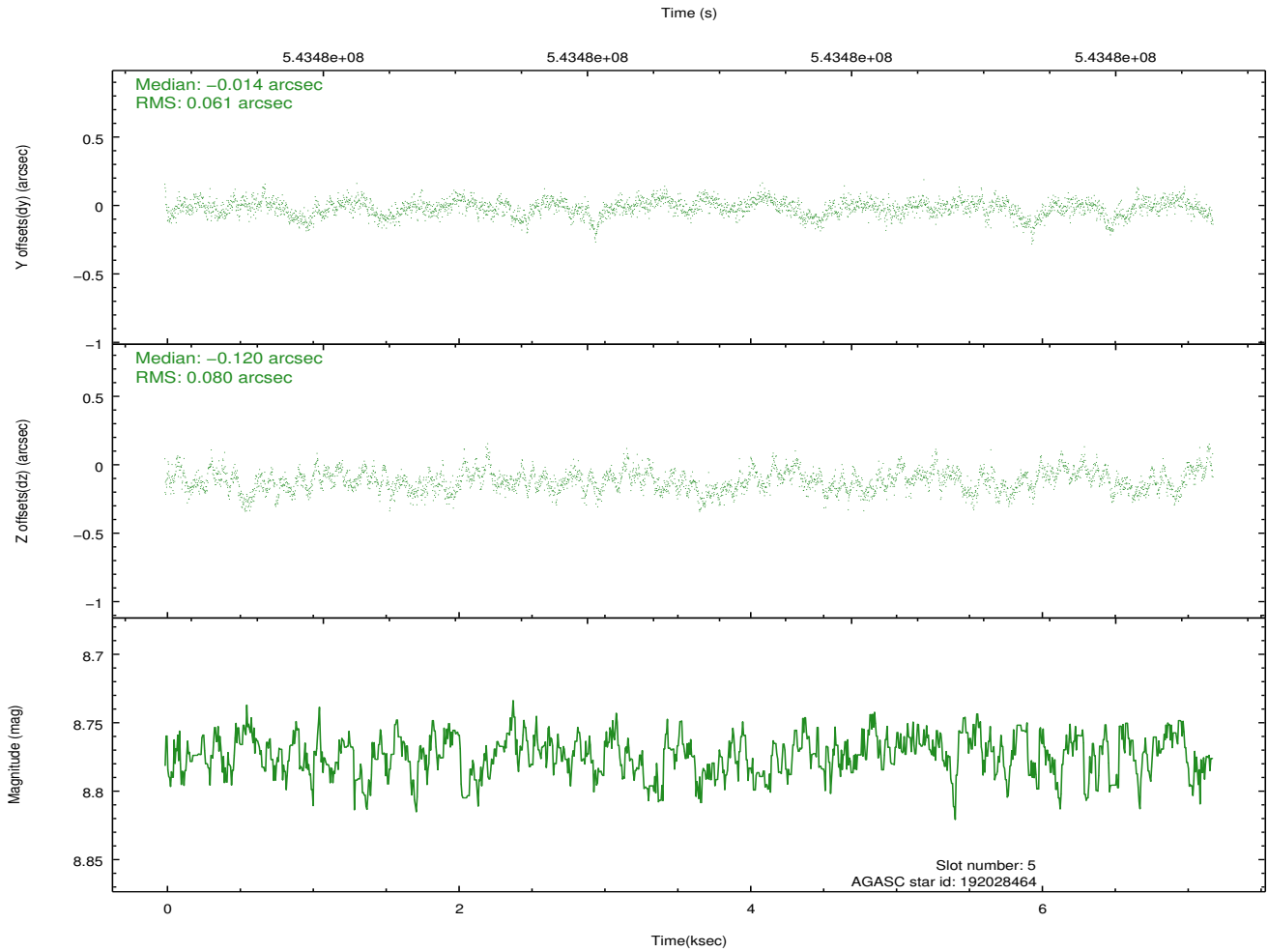
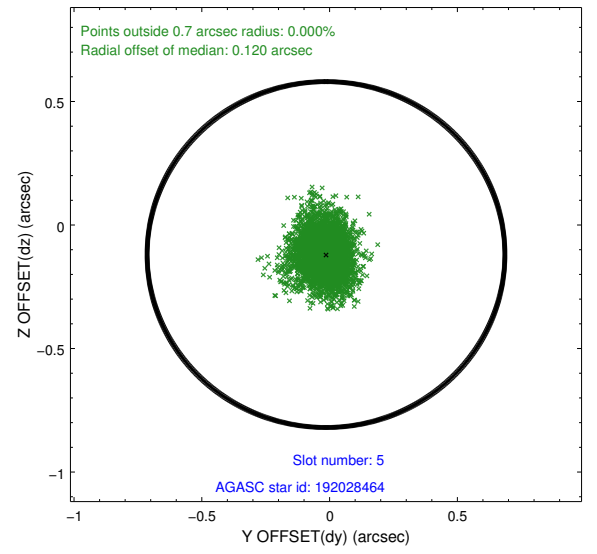
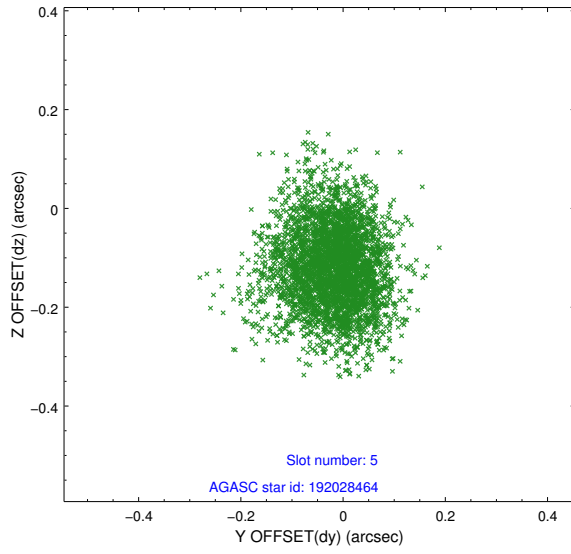
2.4.1 Slot 3



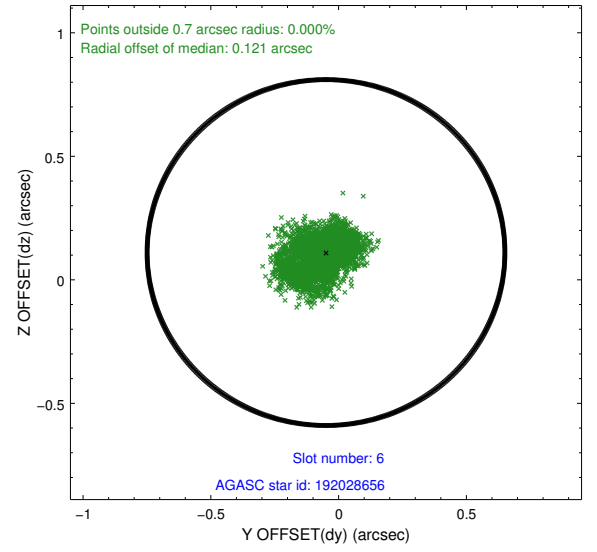
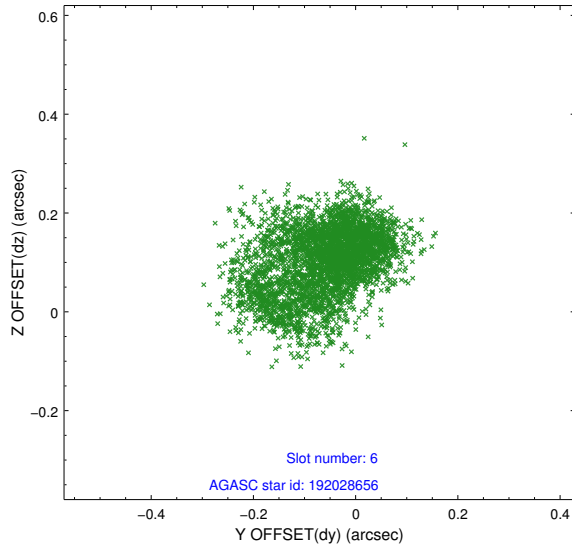
2.4.2 Slot 4



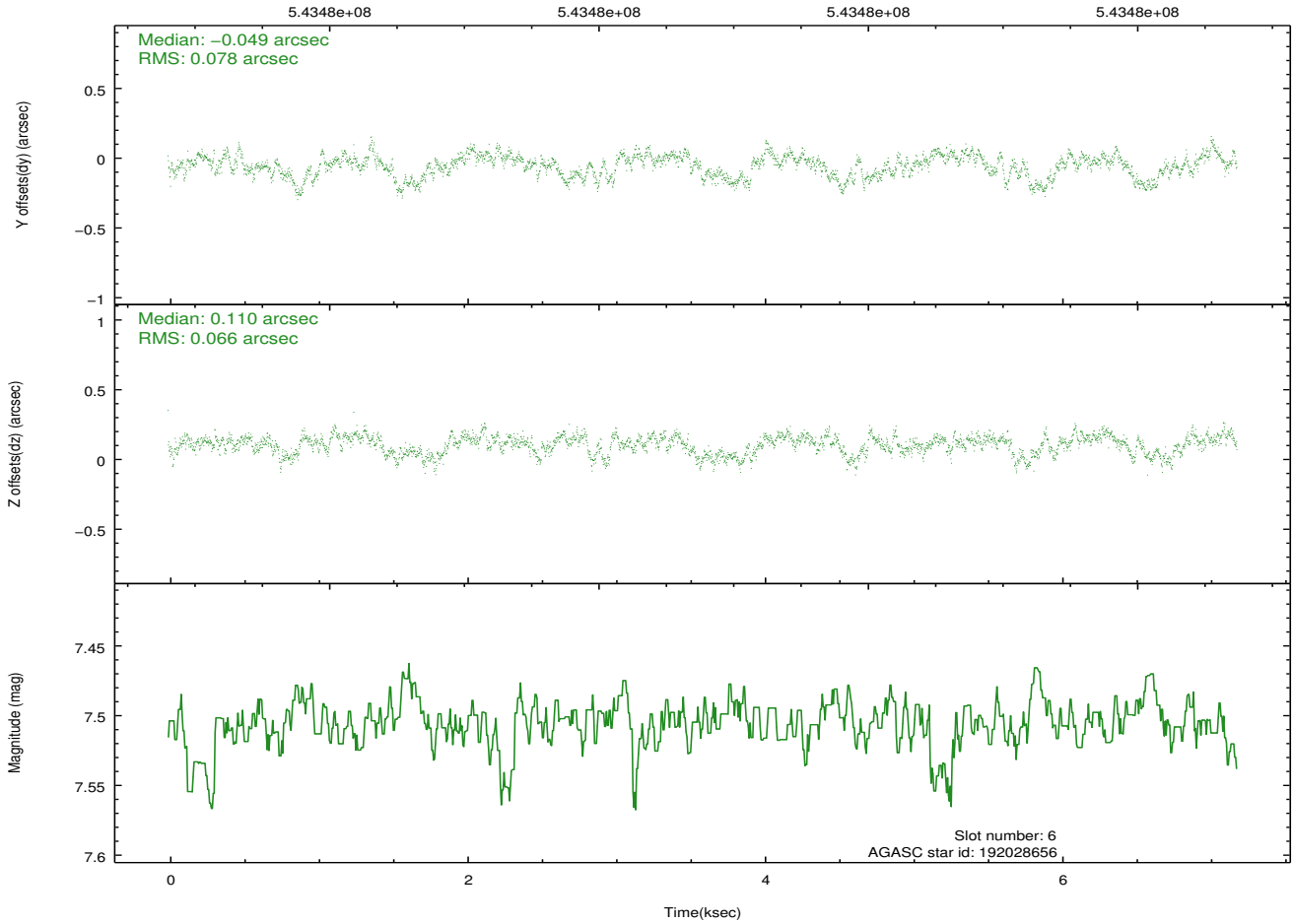
2.4.3 Slot 5



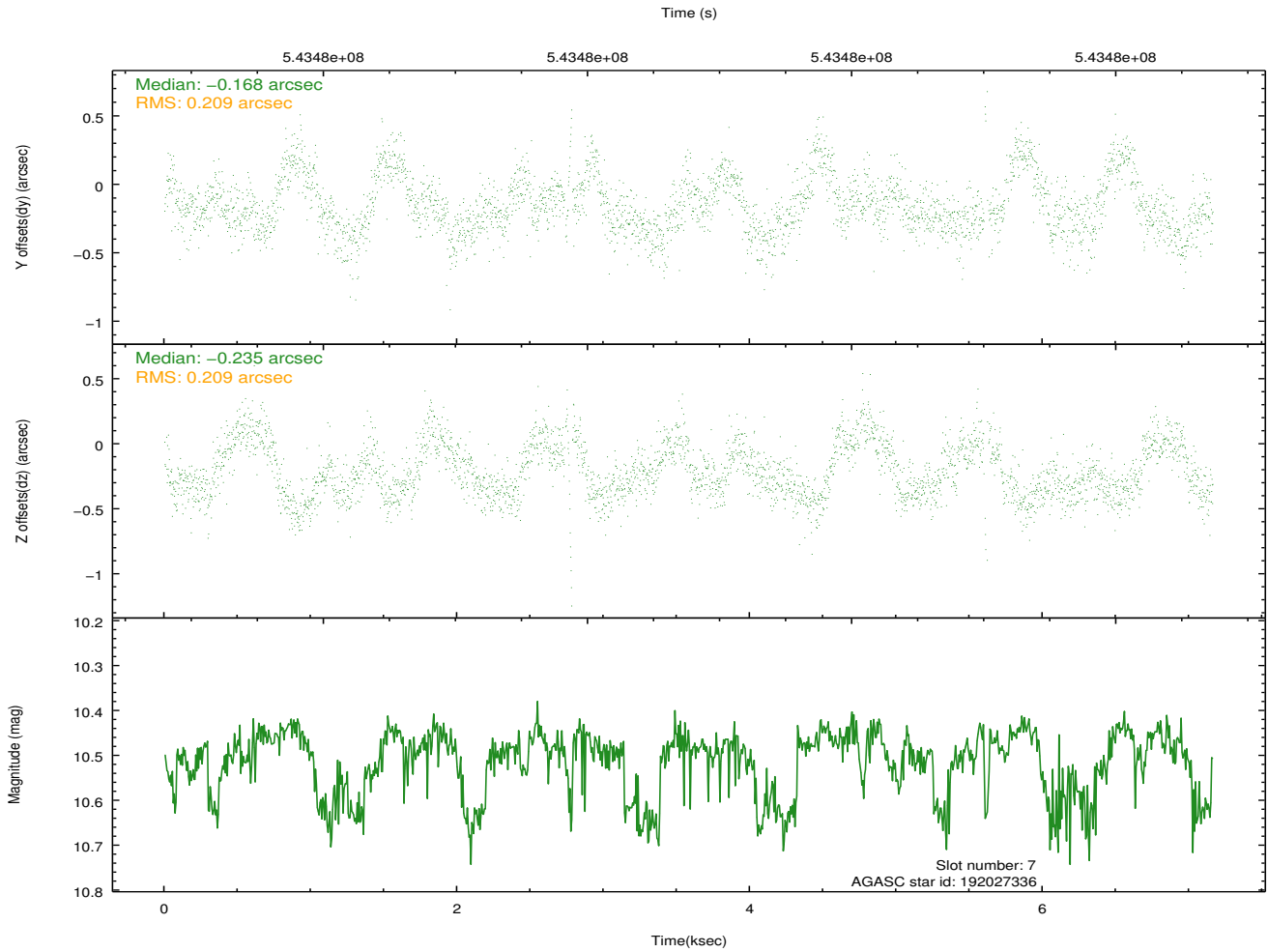
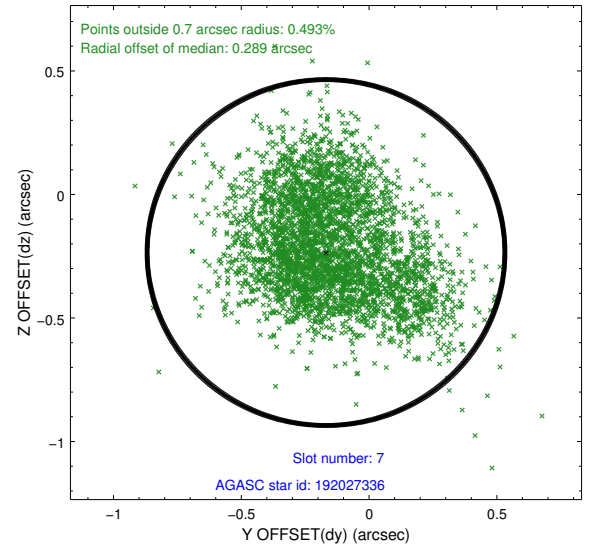
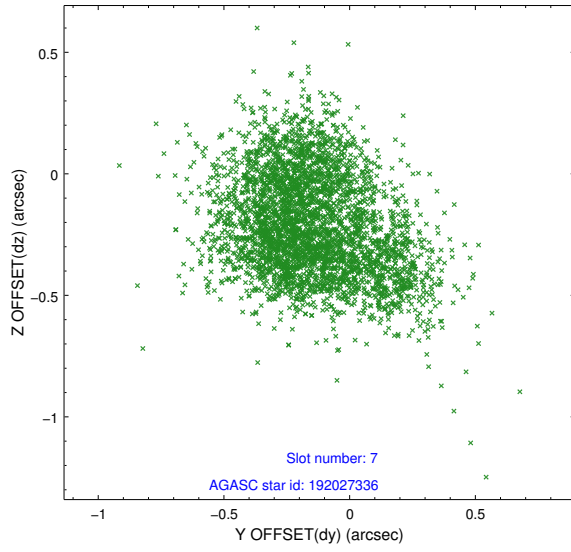
2.4.4 Slot 6



Time (s)

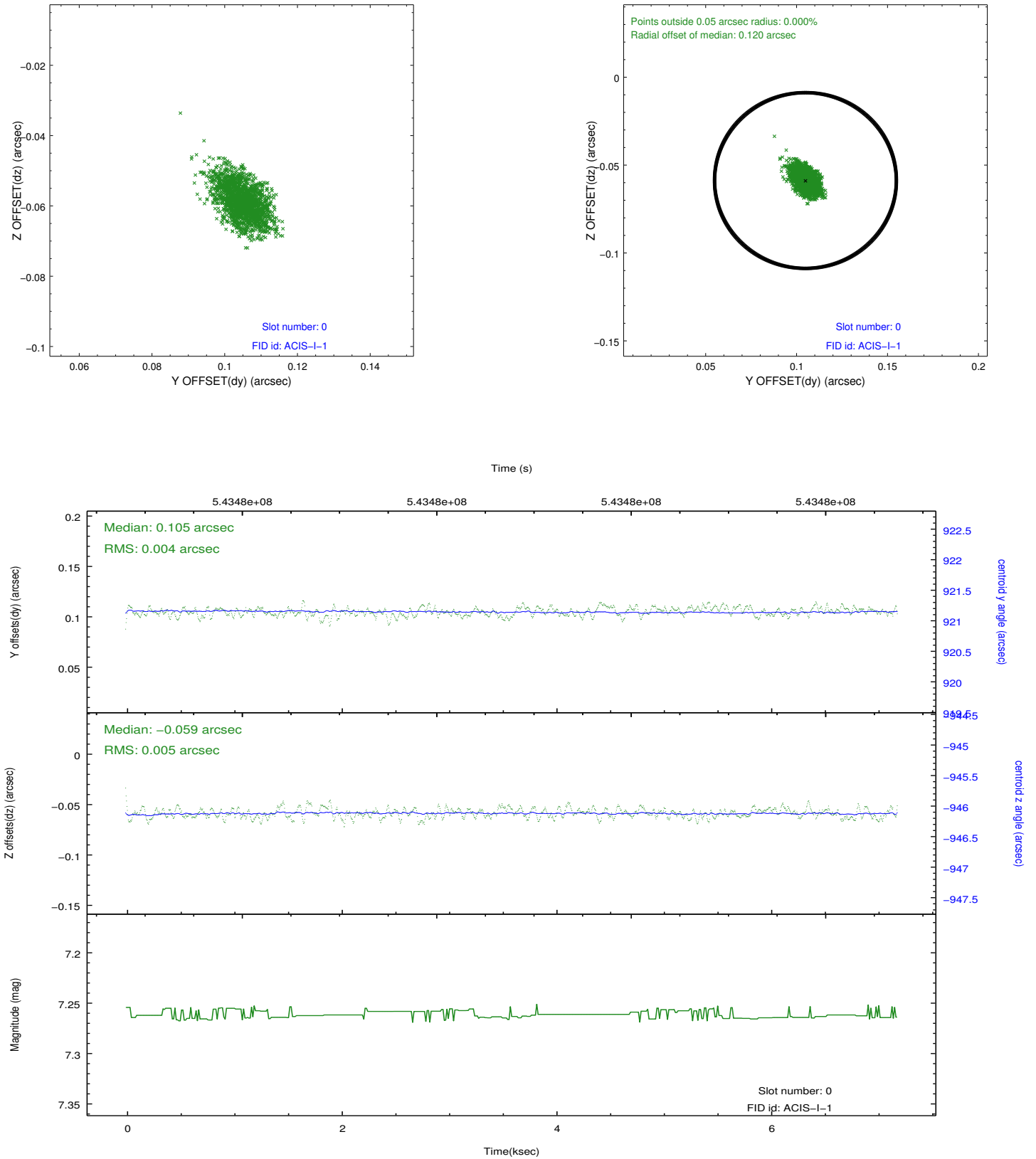


2.4.5 Slot 7

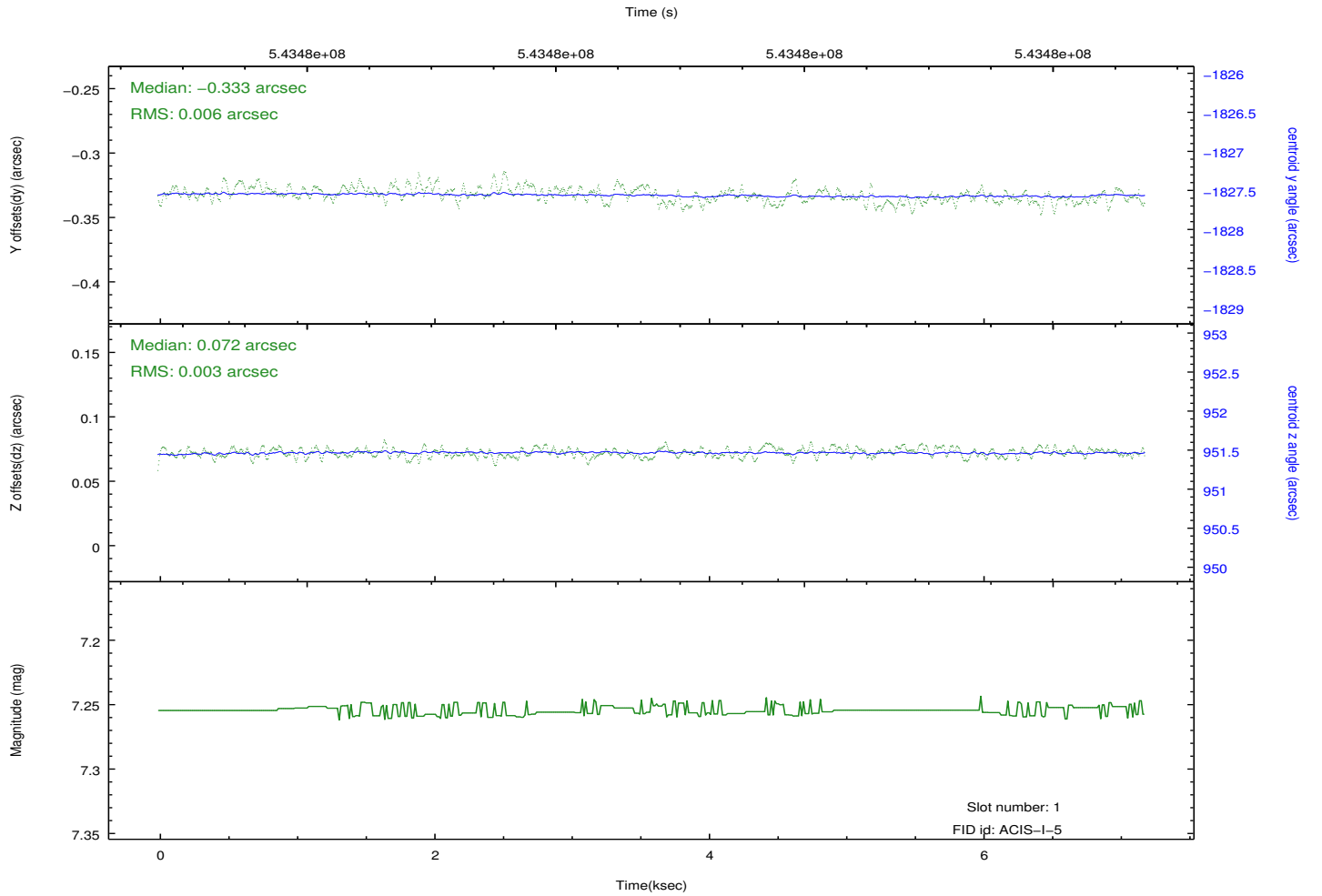
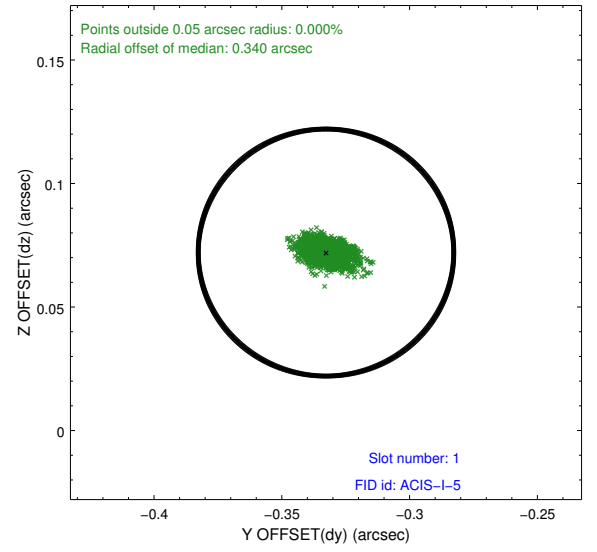
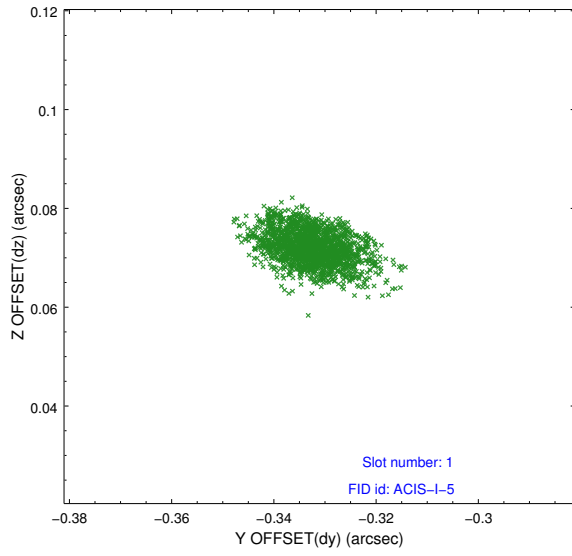


2.5 FID Slots

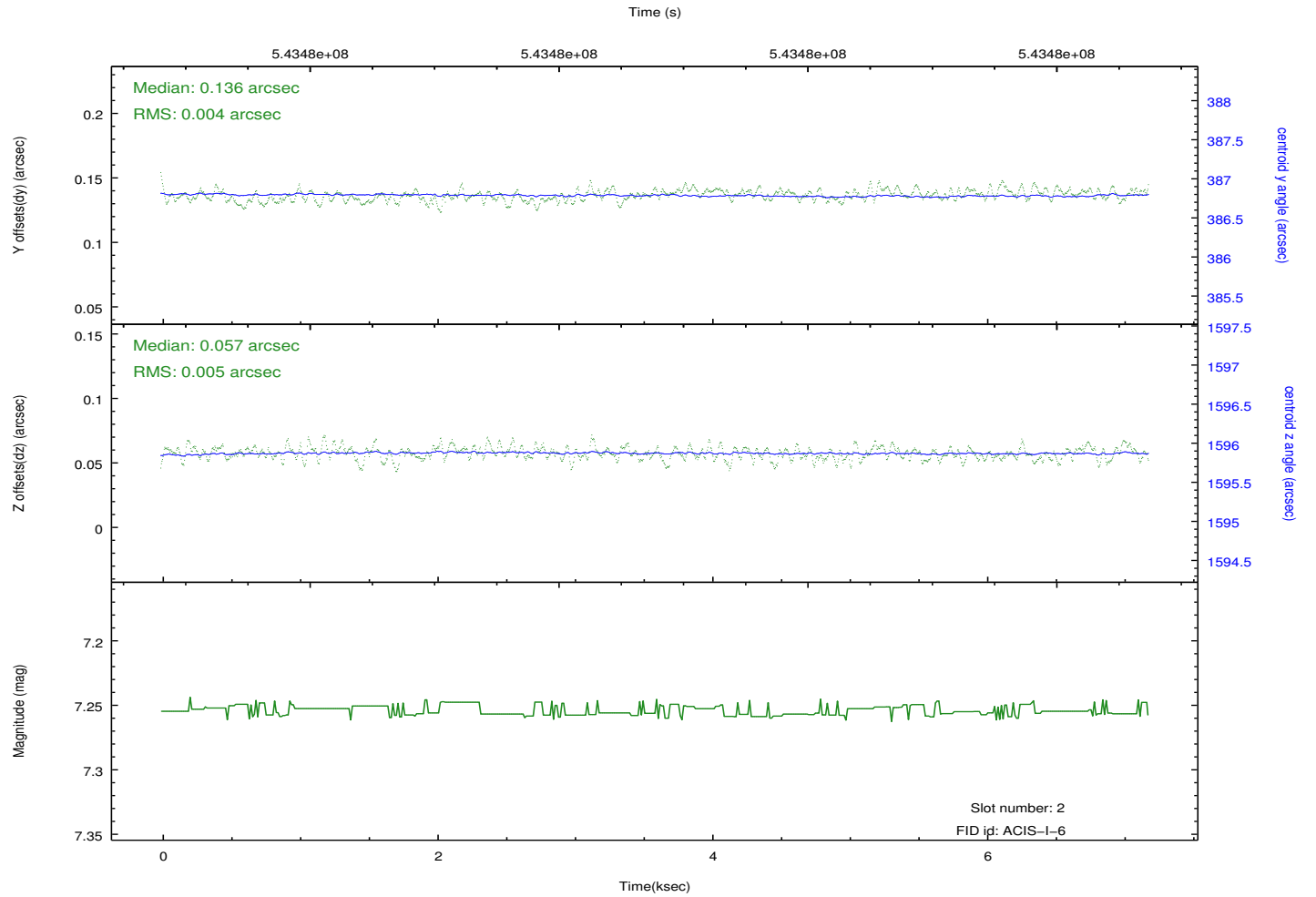
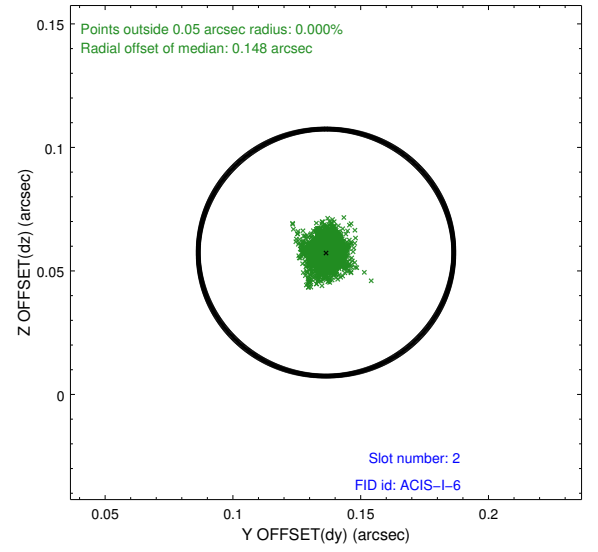
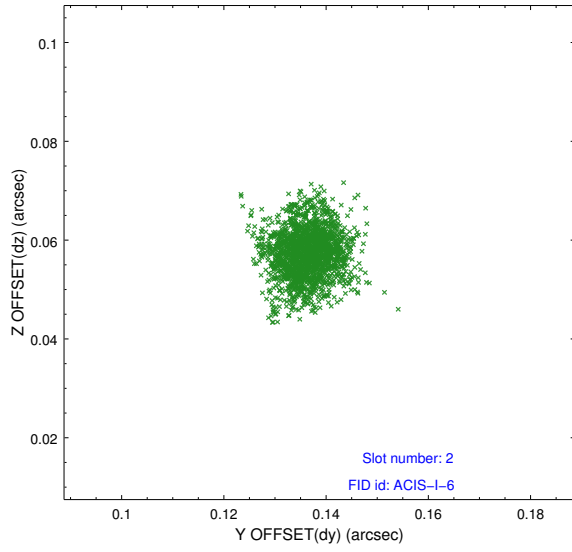
2.5.1 Slot 0



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)	2015.03.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.0649000544548

A.2 Comments