

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 16768 - L2 Version 1
Chandra X-Ray Center

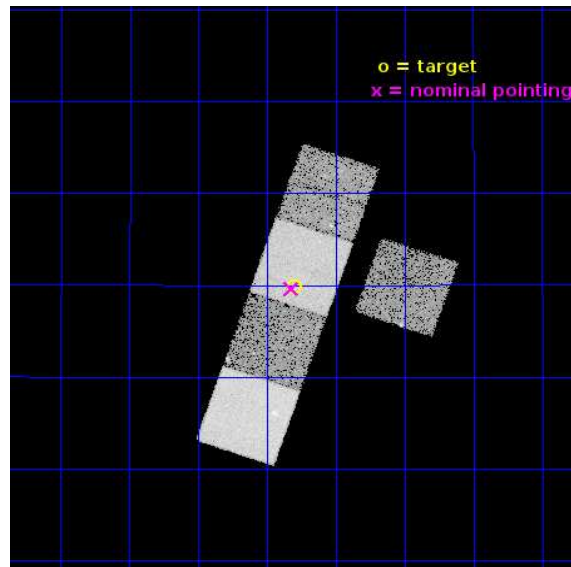
L2 Processing Date : Oct 2 2015

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1 Front

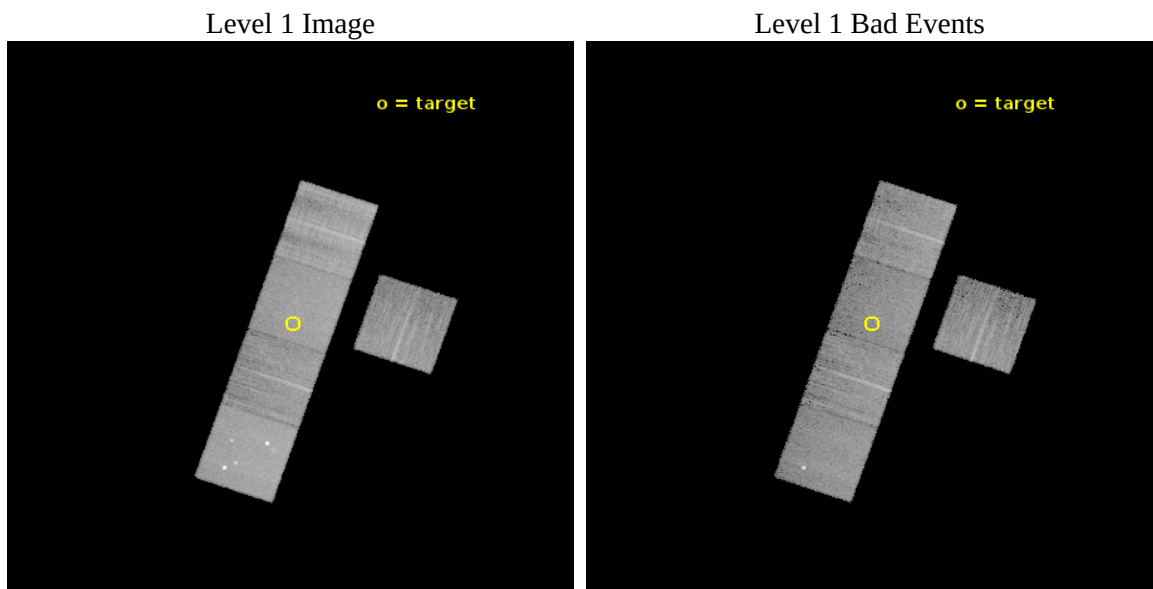
seq_num	502286	Sequence number
obs_id	16768	Observation id
title	Mapping the Zoo of engine driven explosions with late-time X-rays	
observer	Dr Raffaella Margutti	Principal investigator
object	GRB150518A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	234.201042	Observer's specified target RA [deg]
dec_targ	16.329806	Observer's specified target Dec [deg]
ra_nom	234.20580700836	Nominal RA [deg]
dec_nom	16.326919888285	Nominal Dec [deg]
roll_nom	288.93519266791	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15037.3417238	Sum of GTIs [s]
livetime	14840.867783848	Livetime [s]
ontime3	15037.218603849	Sum of GTIs [s]
ontime5	15037.300683856	Sum of GTIs [s]
ontime6	15030.977713346	Sum of GTIs [s]
ontime7	15037.3417238	Sum of GTIs [s]
ontime8	15034.036723018	Sum of GTIs [s]
l2events	138842	Number of level 2 events



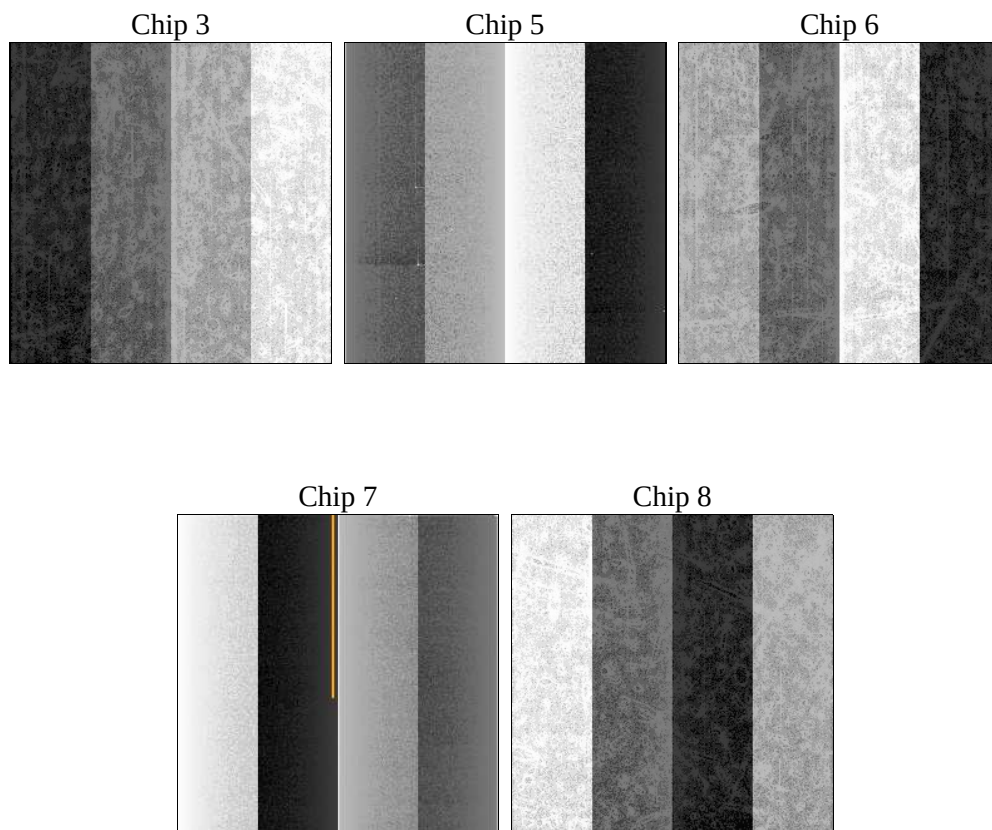
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	15037.3417238	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime3	15037.218603849	Sum of GTIs [s]
date	2015-10-02T11:21:47	Date and time of file creation	ontime5	15037.300683856	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	15030.977713346	Sum of GTIs [s]
			ontime7	15037.3417238	Sum of GTIs [s]
			ontime8	15034.036723018	Sum of GTIs [s]
			l1events	548920	Number of level 1 events

2.1.4 Events

	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	79641	144700	87156	110408	127015
rejected events	70218	71862	76447	62330	82485
rejected %	88%	49%	87%	56%	64%

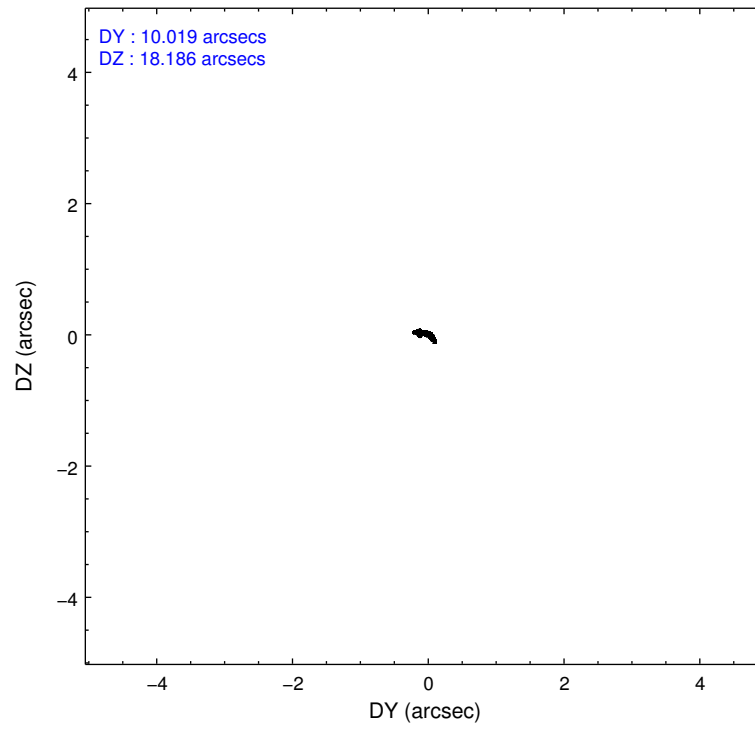
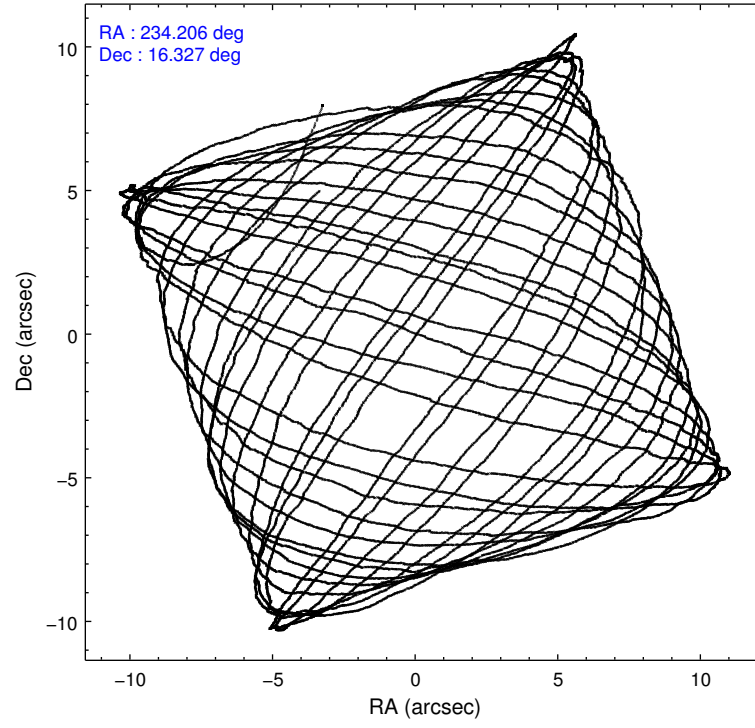
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	3523	10527	3909	4261	14643
	4%	7%	4%	3%	11%
grade 1 events	52	394	49	150	128
	0%	0%	0%	0%	0%
grade 2 events	2020	22578	2483	10160	8500
	2%	15%	2%	9%	6%
grade 3 events	972	2436	1032	4056	5997
	1%	1%	1%	3%	4%
grade 4 events	959	2331	991	3975	5597
	1%	1%	1%	3%	4%
grade 5 events	4032	10315	4240	11253	6283
	5%	7%	4%	10%	4%
grade 6 events	1955	34997	2297	25643	9824
	2%	24%	2%	23%	7%
grade 7 events	66128	61122	72155	50910	76043
	83%	42%	82%	46%	59%

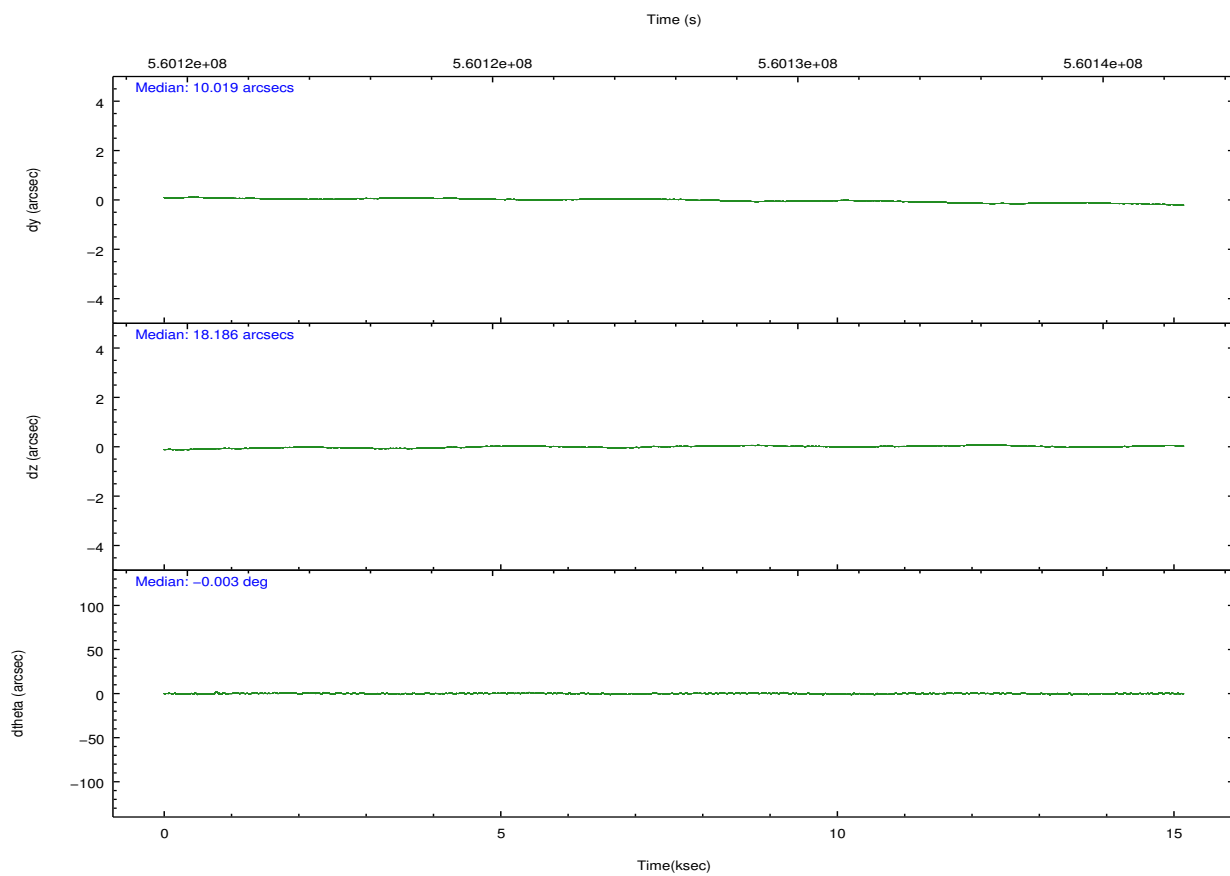
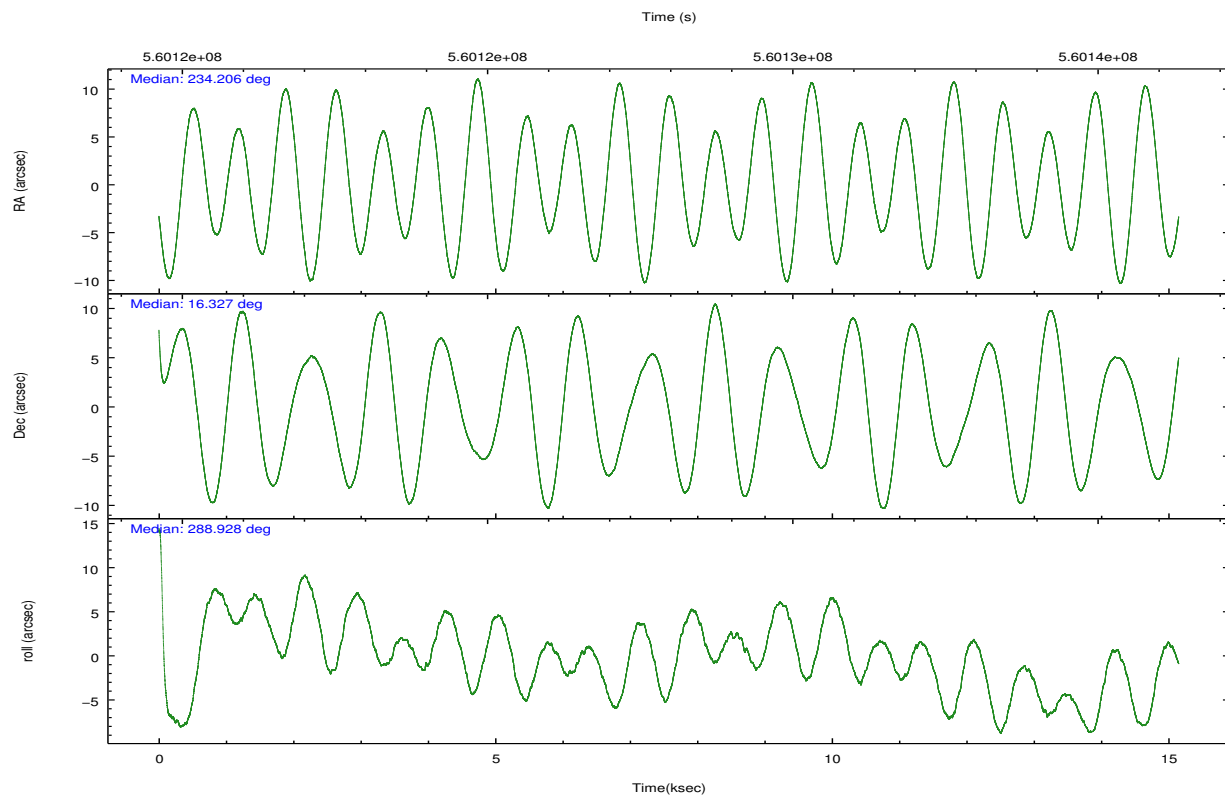
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-35678	ACIS-35678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	234.184028	234.2058070083603
[deg] Pointing Dec	16.344677	16.32691988828486
[deg] Pointing Roll	288.784678	288.9351926679083
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	560120529.184000	560118832.10639
Observation start date	2015-10-01T21:01:01	2015-10-01T20:33:52
[s] Observation end time (MET)	560135529.184000	560136728.6073999
Observation end date	2015-10-02T01:11:01	2015-10-02T01:32:08
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	O1	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



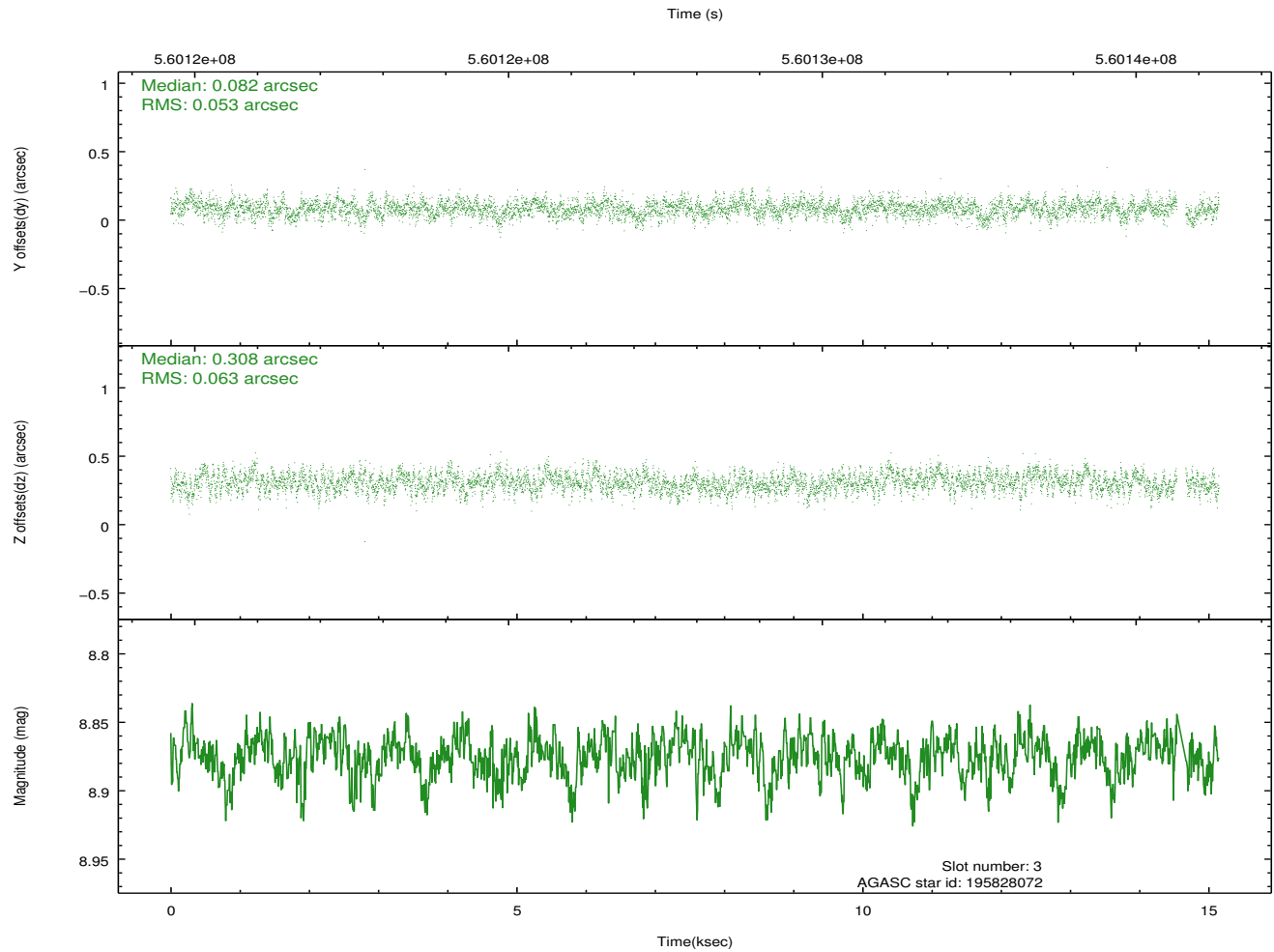
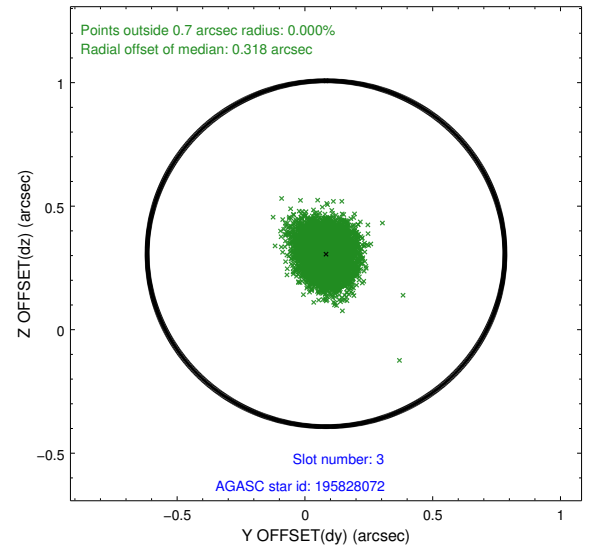
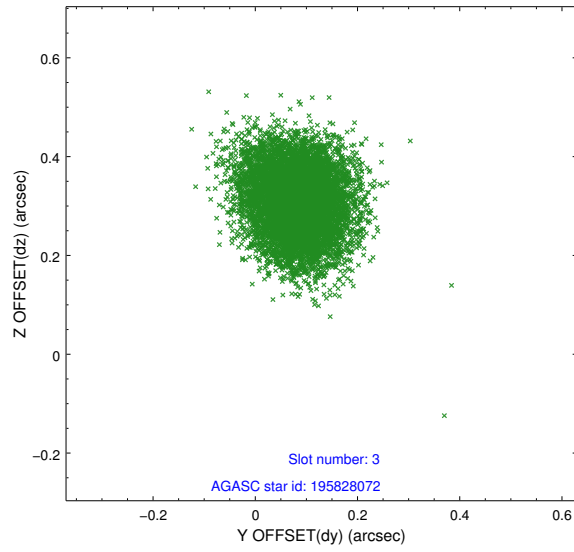


Slot Statistics

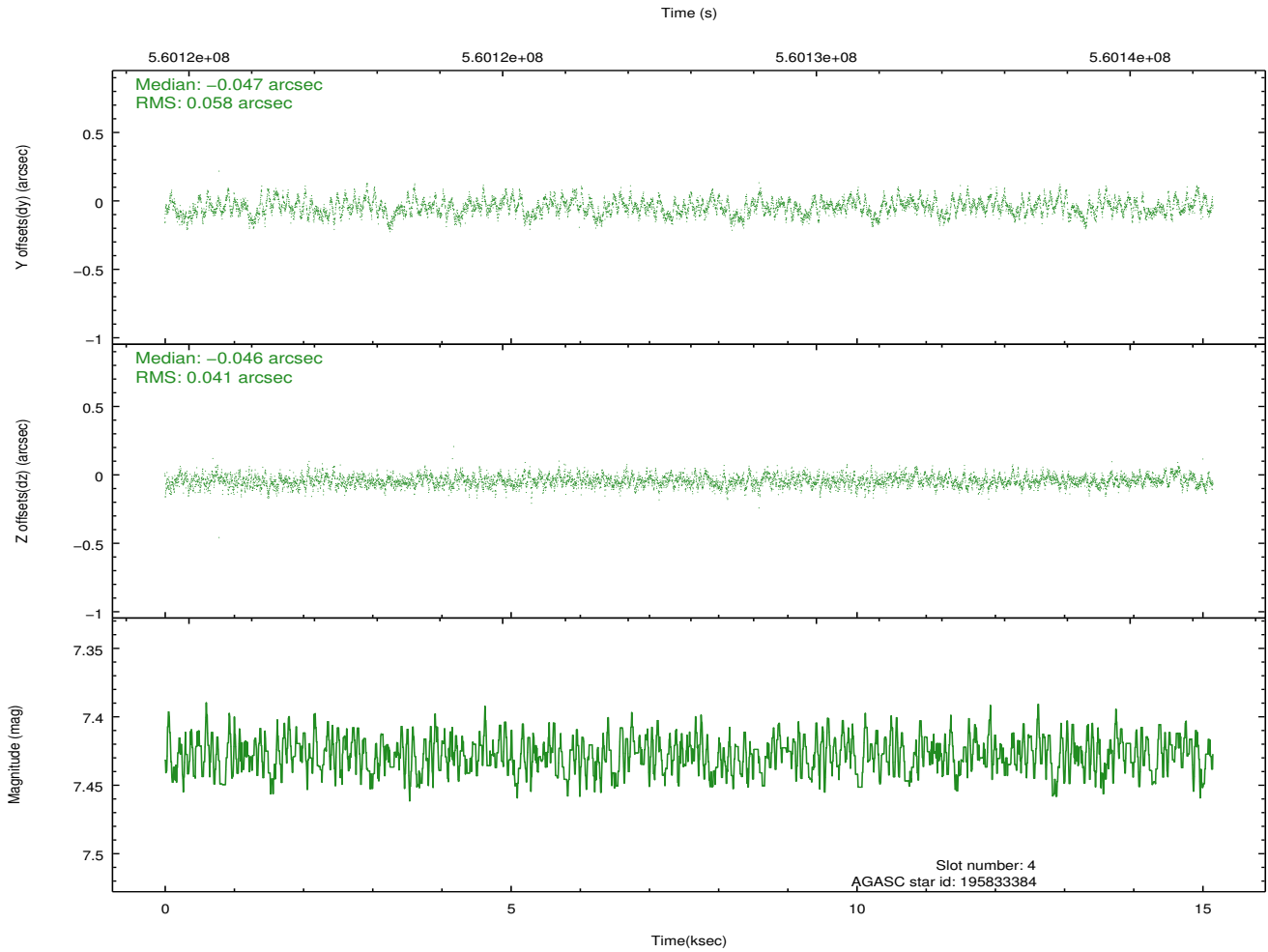
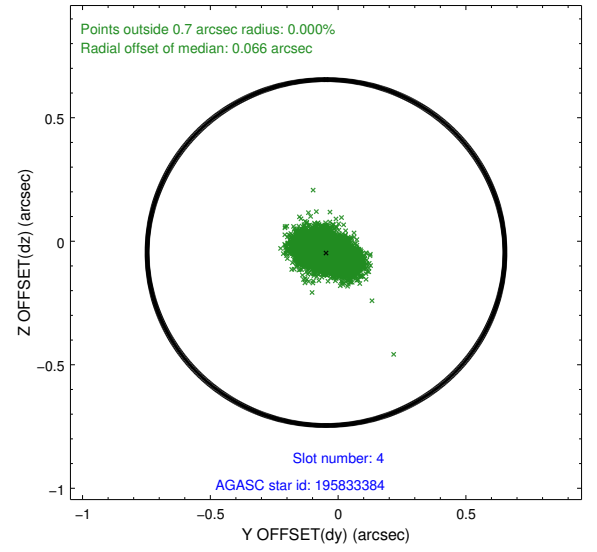
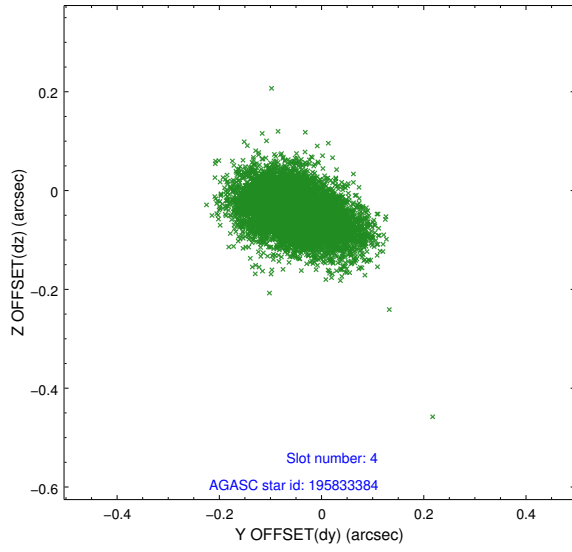
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	3694	-0.123	-0.111	0.007	0.011	0.000000	0.000000	-762.97	-1739.70
1	FID		ACIS-S-4	7.20	3695	0.358	0.089	0.006	0.012	0.000000	0.000000	2150.67	168.65
2	FID		ACIS-S-5	7.23	3695	-0.266	0.031	0.007	0.012	0.000000	0.000000	-1815.56	162.64
3	GUIDE	used	195828072	8.87	7325	0.082	0.308	0.088	0.141	233.912152	16.895936	-2180.78	-248.41
4	GUIDE	used	195833384	7.43	7391	-0.047	-0.046	0.074	0.126	234.388986	16.529654	-402.77	883.68
5	GUIDE	used	195833816	8.36	7388	0.065	-0.068	0.079	0.128	234.028497	15.839299	1549.61	-1095.52
6	GUIDE	used	195835976	8.13	7390	0.177	0.064	0.085	0.137	233.999860	16.109518	597.16	-875.89
7	GUIDE	used	195964064	7.25	7388	-0.276	-0.255	0.098	0.155	234.916442	16.314013	914.19	2361.18

2.4 Star Slots

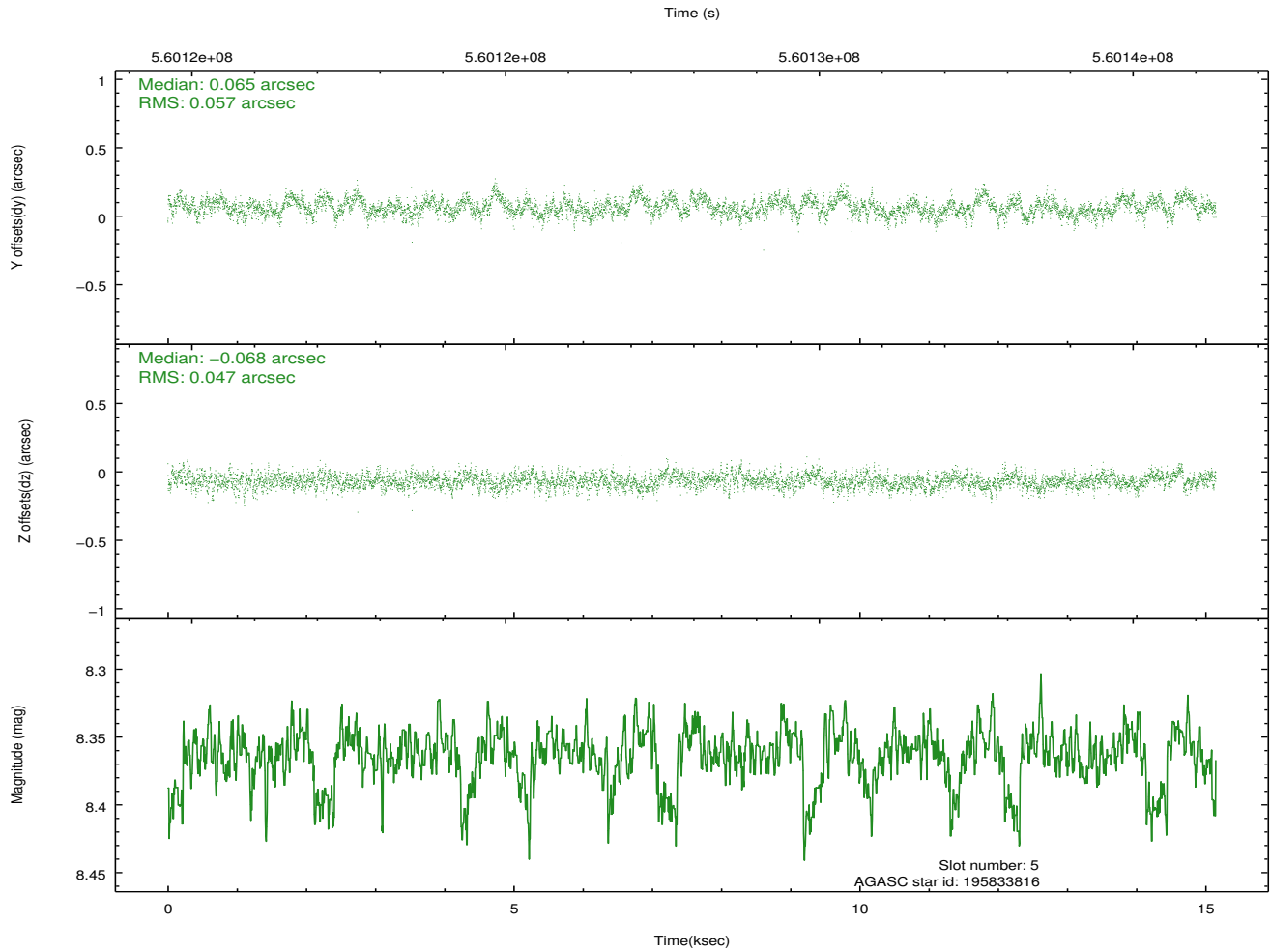
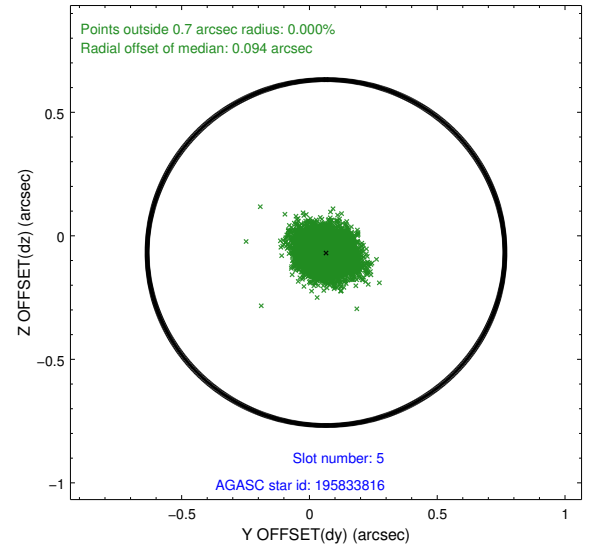
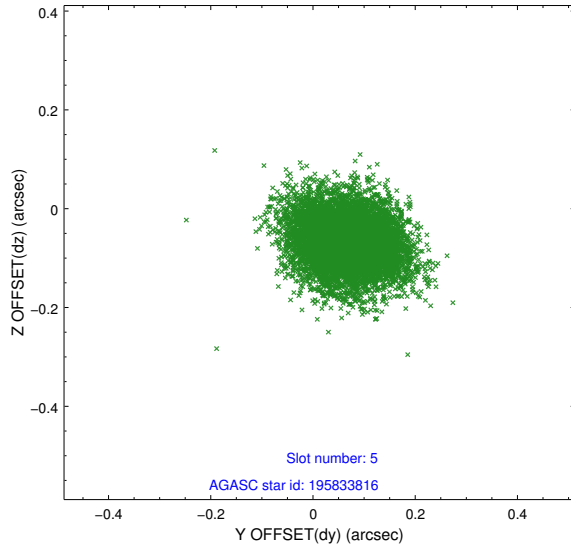
2.4.1 Slot 3



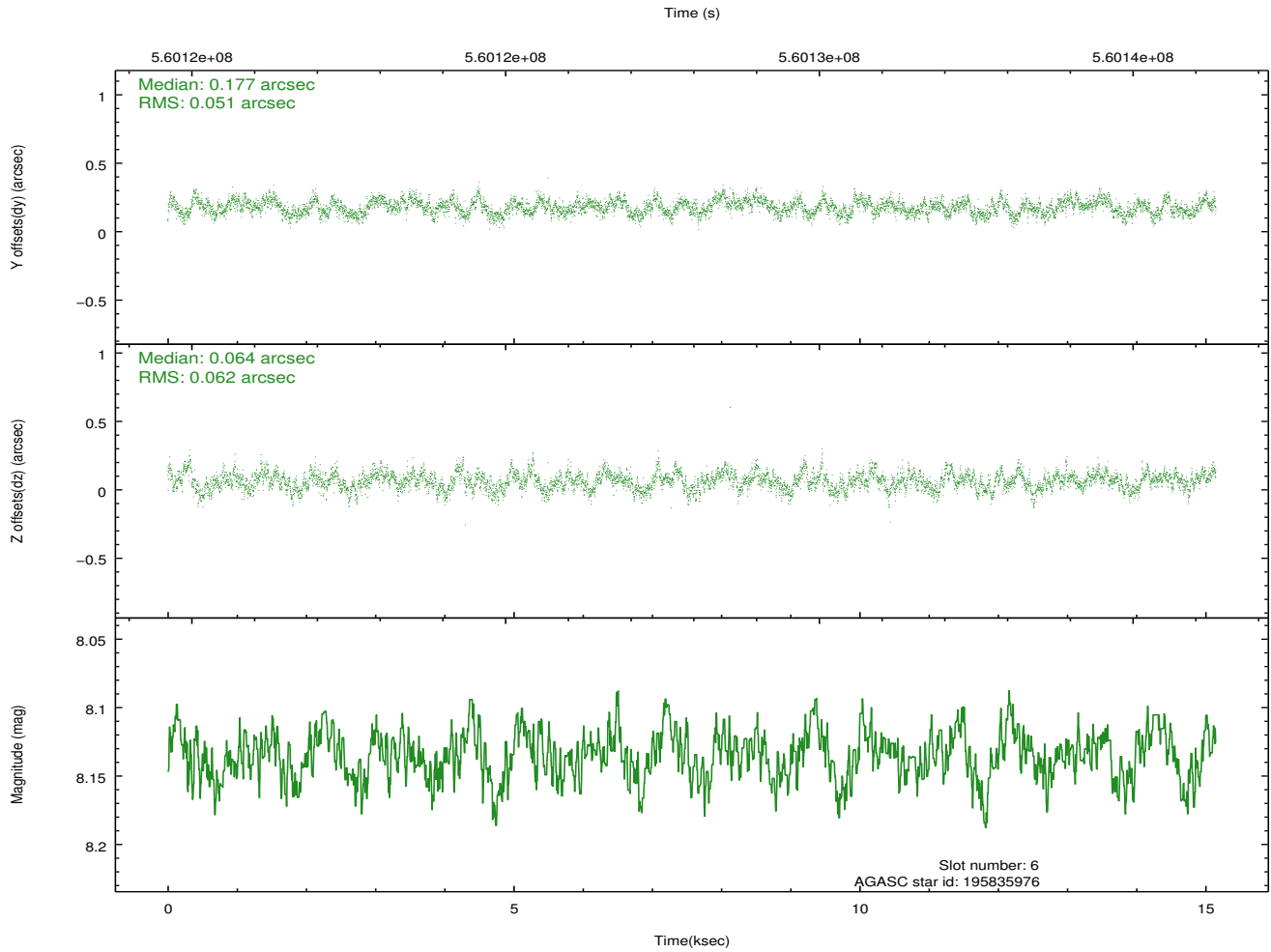
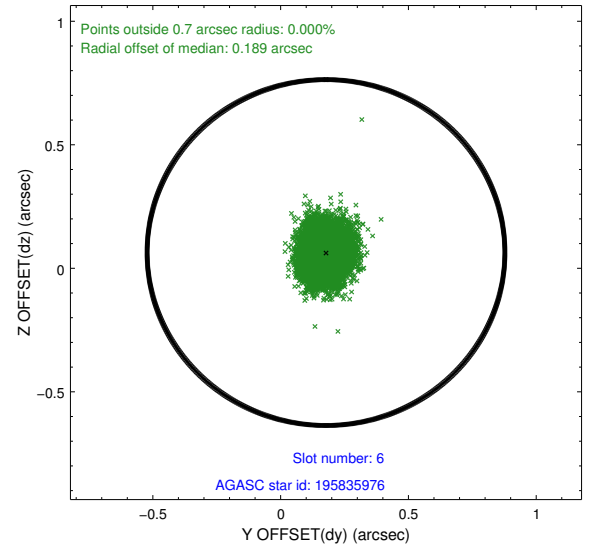
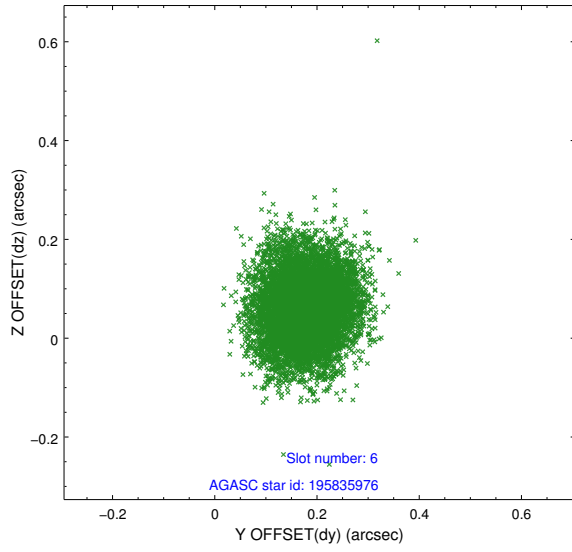
2.4.2 Slot 4



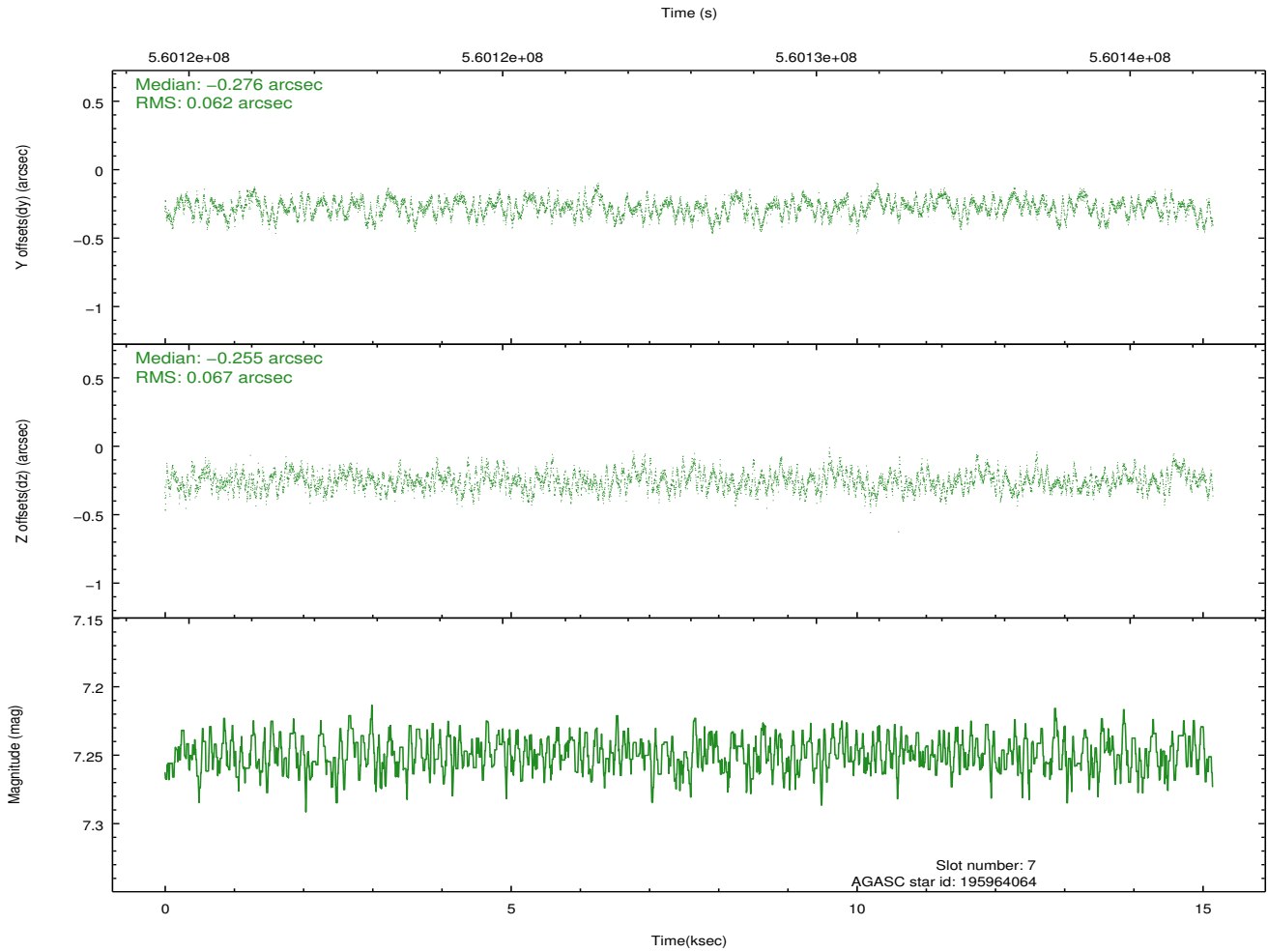
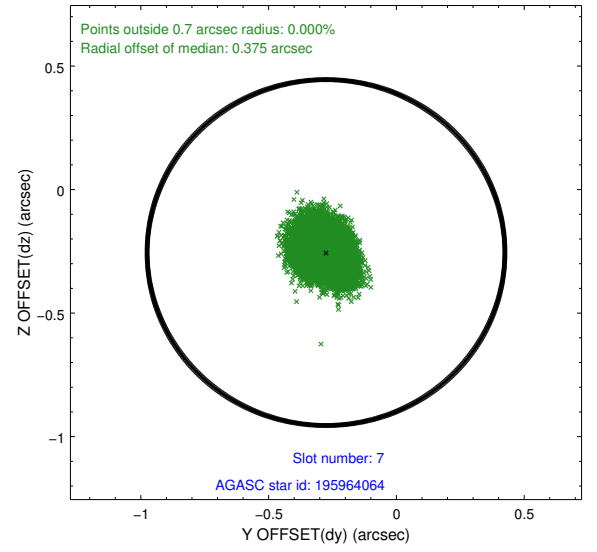
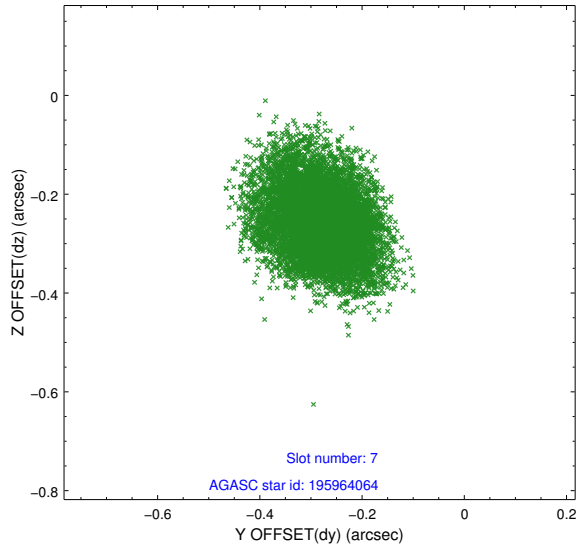
2.4.3 Slot 5



2.4.4 Slot 6

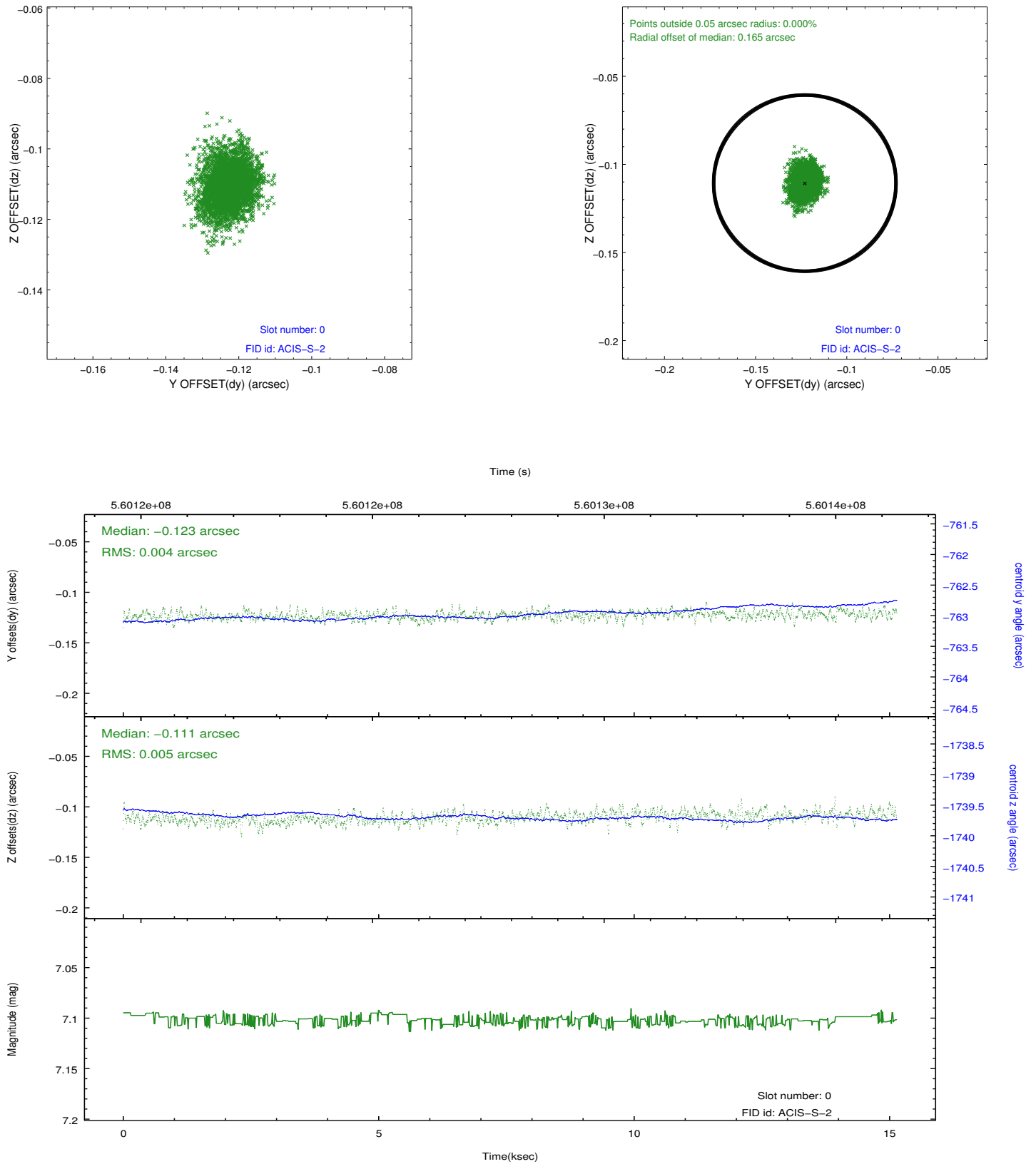


2.4.5 Slot 7

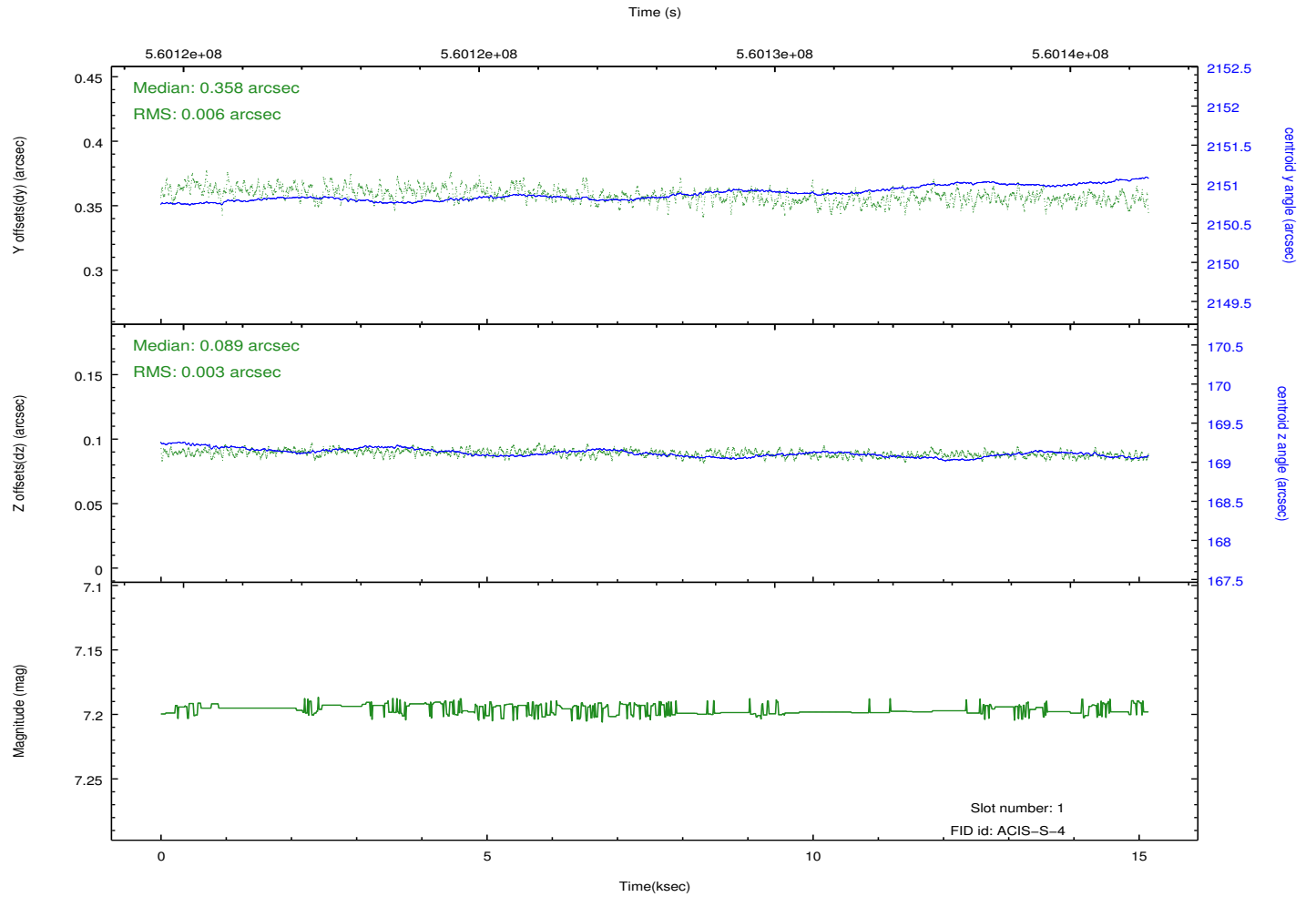
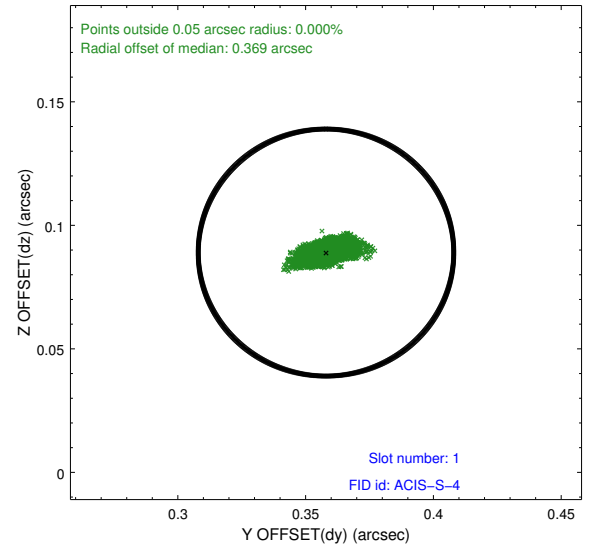
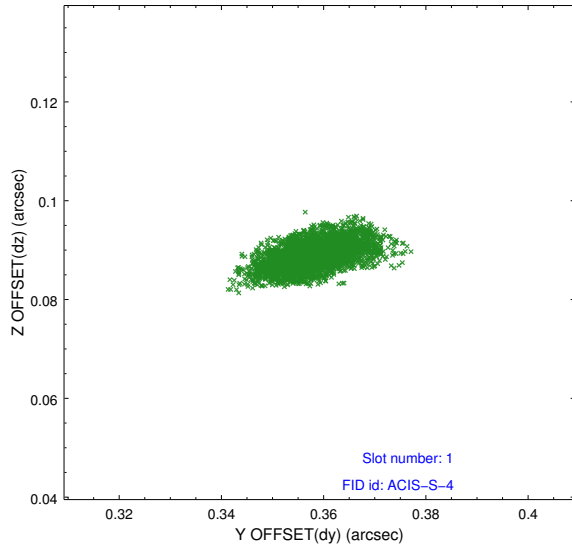


2.5 FID Slots

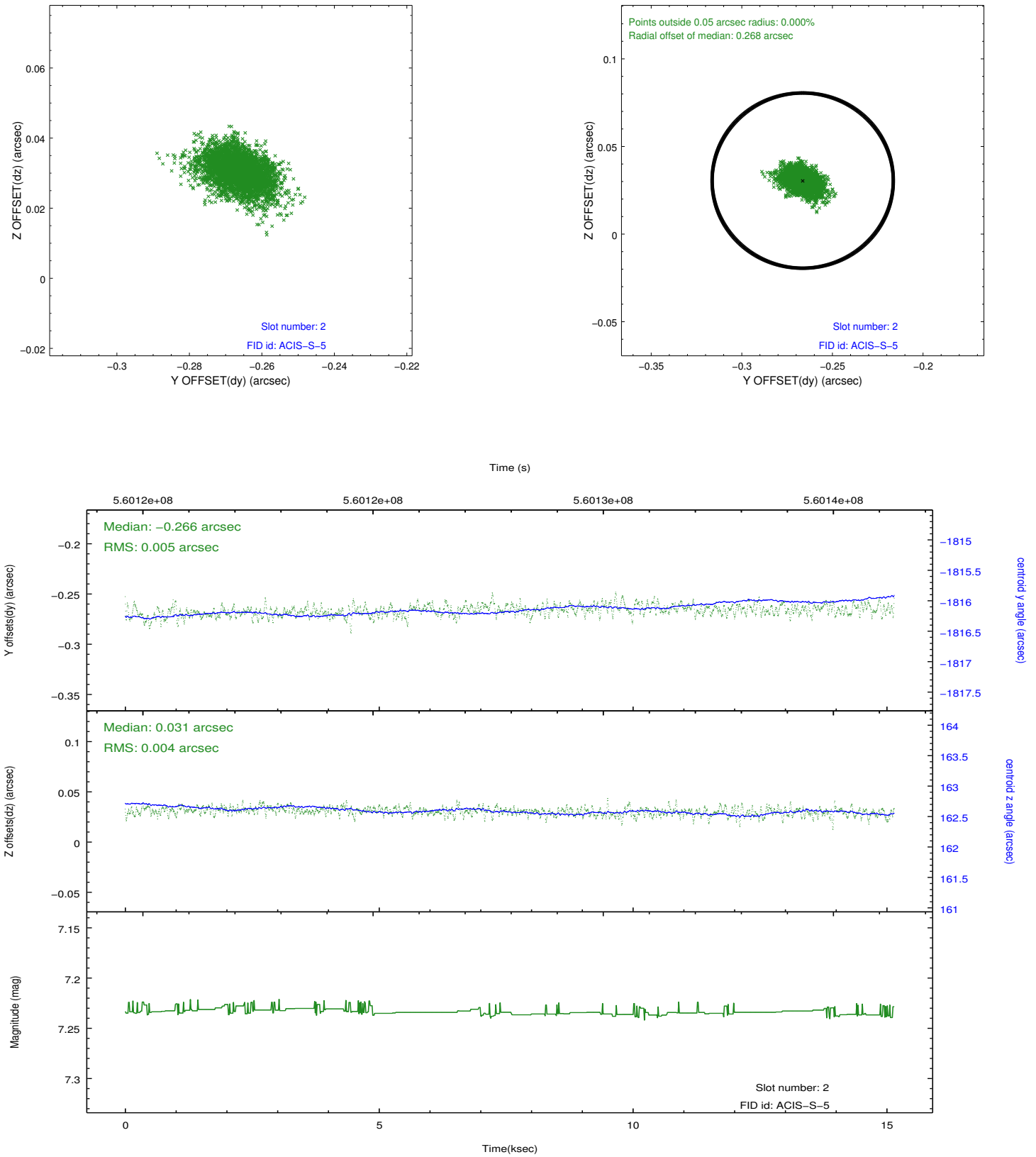
2.5.1 Slot 0



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)	2015.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.0373417238

A.2 Comments