

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 20607 - L2 Version 1
Chandra X-Ray Center

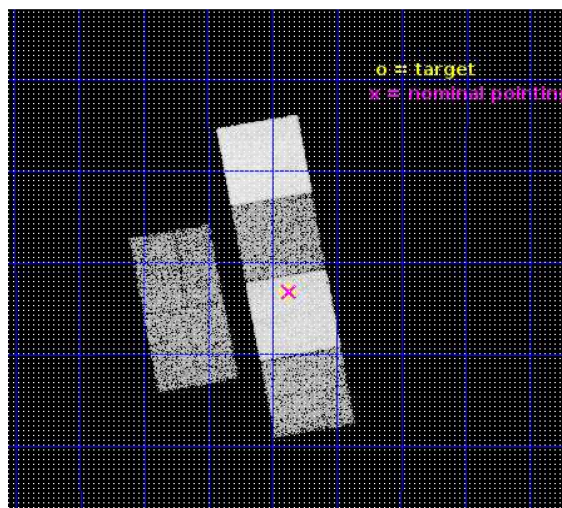
L2 Processing Date : Aug 13 2019

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

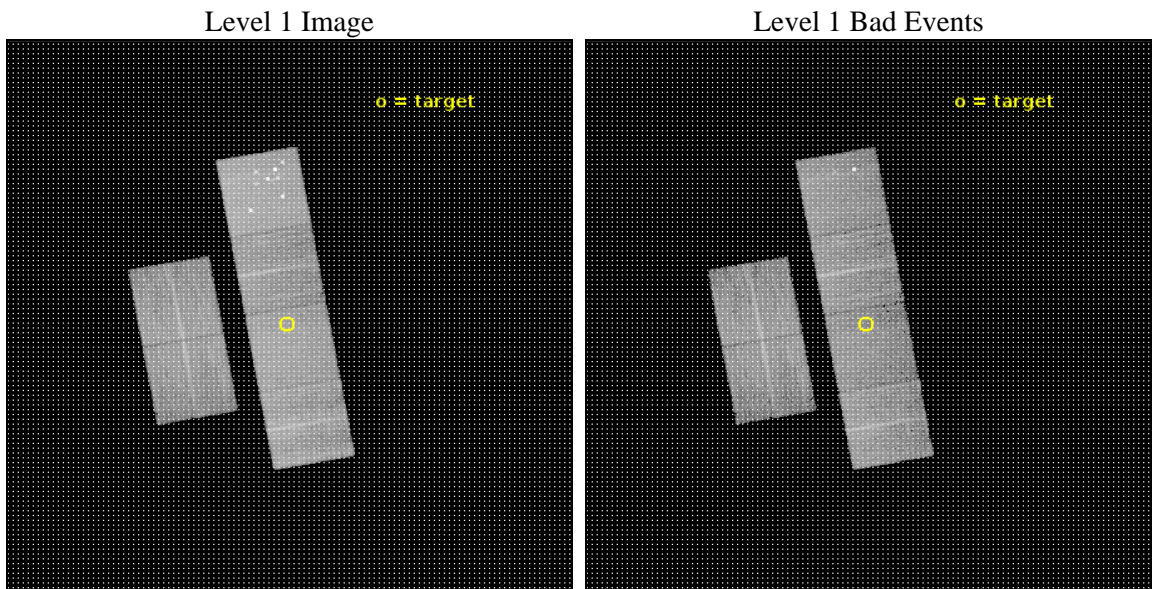
seq_num	703608	Sequence number
obs_id	20607	Observation id
title	Exploratory X-ray Monitoring of $z > 4$ Radio-Quiet Quasars	Proposal t
observer	Ohad Shemmer	Principal investigator
object	Q 0000-263	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.845417	Observer's specified target RA [deg]
dec_targ	-26.054667	Observer's specified target Dec [deg]
ra_nom	0.84219792893697	Nominal RA [deg]
dec_nom	-26.053421647856	Nominal Dec [deg]
roll_nom	79.783090952268	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9951.4520844221	Sum of GTIs [s]
livetime	9825.4408060841	Livetime [s]
ontime2	9951.4931243658	Sum of GTIs [s]
ontime3	9951.3289643526	Sum of GTIs [s]
ontime5	9951.4110443592	Sum of GTIs [s]
ontime6	9951.3700044155	Sum of GTIs [s]
ontime7	9951.4520844221	Sum of GTIs [s]
ontime8	9951.2879244089	Sum of GTIs [s]
l2events	125610	Number of level 2 events



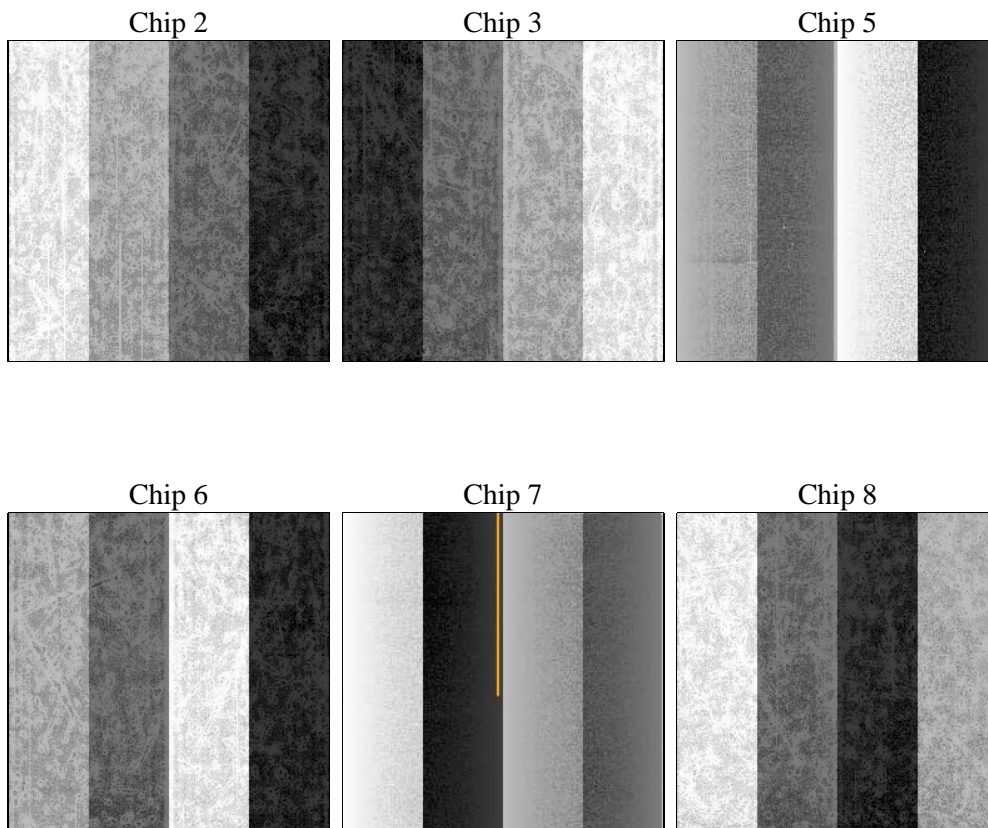
2 OBI

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	10.8	Processing system revision	ontime	9951.4520844221	Sum of GTIs [s]
caldbver	4.8.3.1	 	ontime2	9951.4931243658	Sum of GTIs [s]
date	2019-08-14T02:47:44	Date and time of file creation	ontime3	9951.3289643526	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	9951.4110443592	Sum of GTIs [s]
			ontime6	9951.3700044155	Sum of GTIs [s]
			ontime7	9951.4520844221	Sum of GTIs [s]
			ontime8	9951.2879244089	Sum of GTIs [s]
			l1events	559051	Number of level 1 events

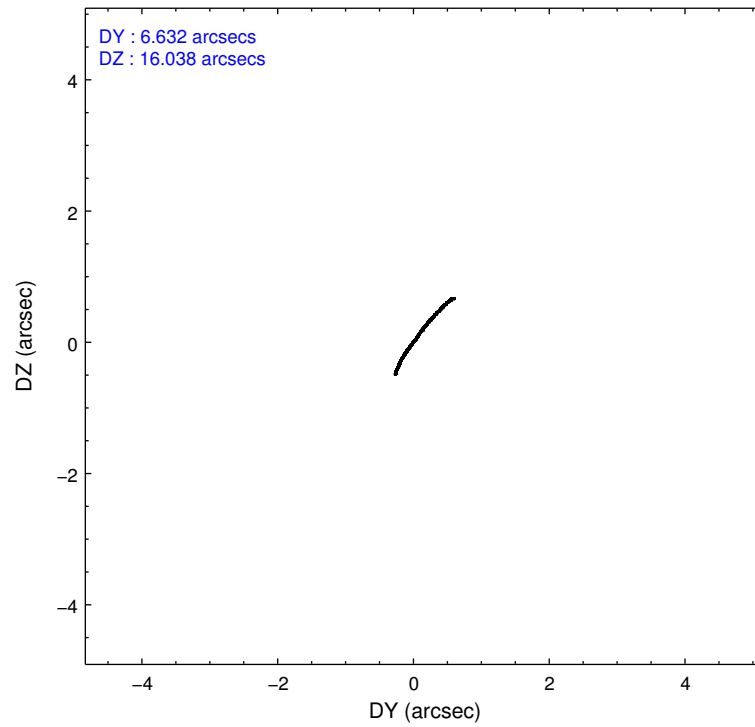
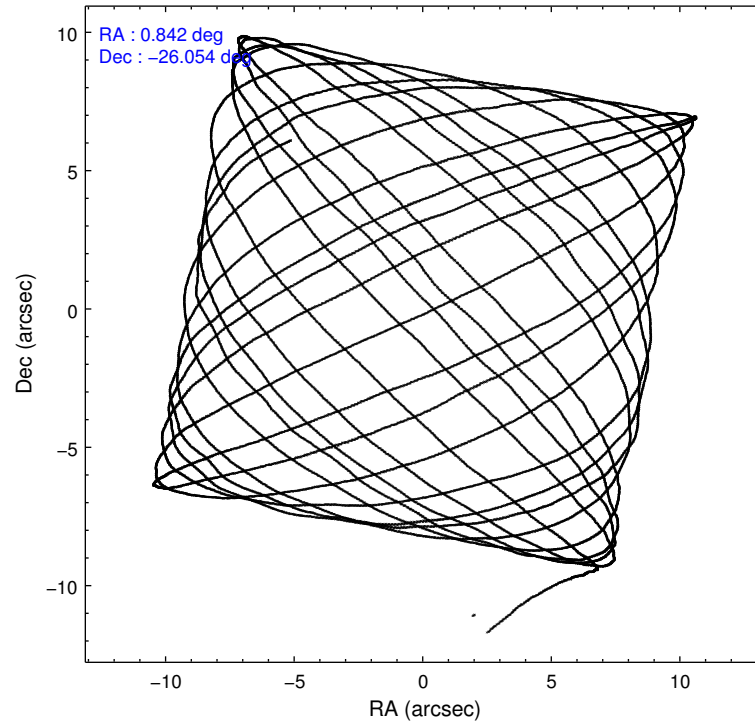
2.1.4 Events

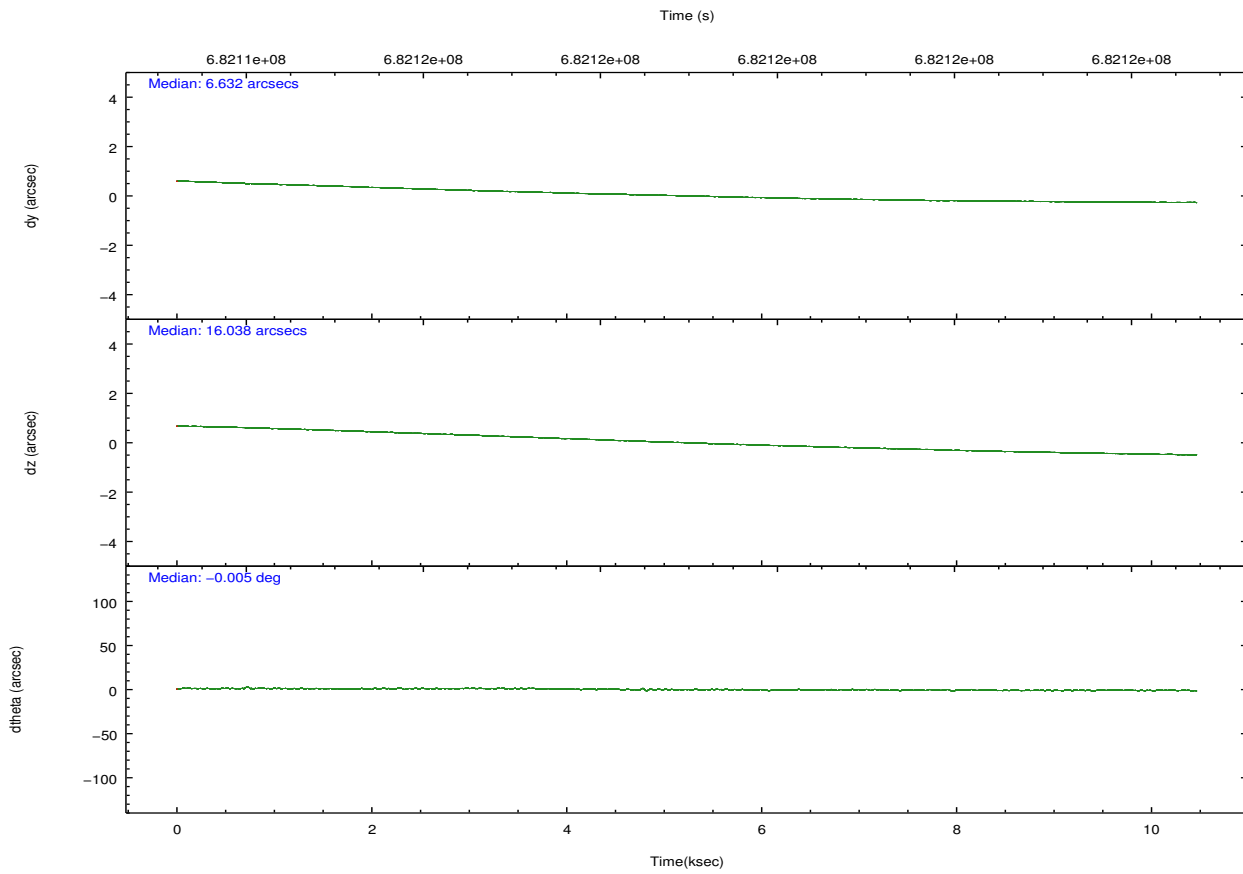
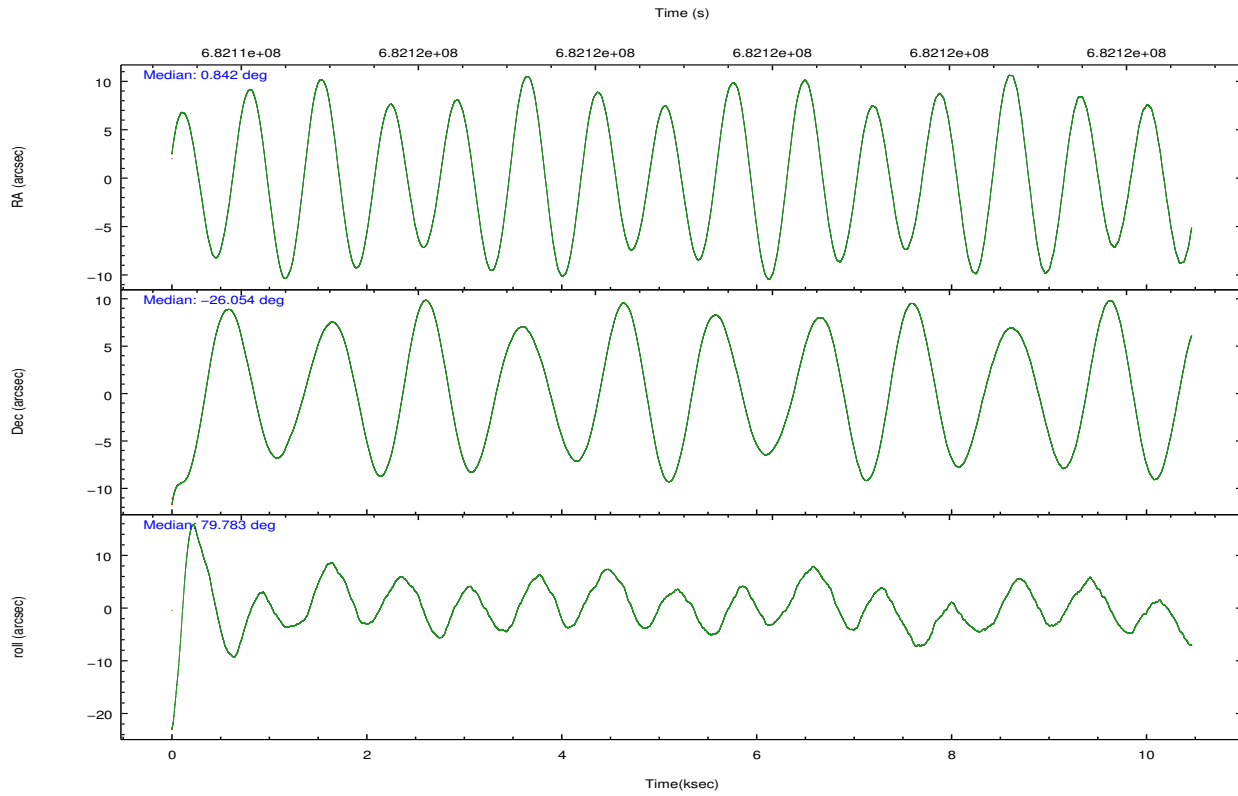
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	76974	70517	137727	76275	98074	99484	grade 0 events	2899	2616	14750	2729	3329	7537
rejected events	68897	62910	66648	67712	56155	72994		3%	3%	10%	3%	3%	7%
rejected %	89%	89%	48%	88%	57%	73%	grade 1 events	41	34	339	46	150	81
								0%	0%	0%	0%	0%	0%
							grade 2 events	1996	1659	20655	2059	9135	6279
								2%	2%	14%	2%	9%	6%
							grade 3 events	766	850	1945	797	3271	2803
								0%	1%	1%	1%	3%	2%
							grade 4 events	791	822	1603	779	3144	2666
								1%	1%	1%	1%	3%	2%
							grade 5 events	3186	3518	8101	3376	9426	5318
								4%	4%	5%	4%	9%	5%
							grade 6 events	1632	1663	32187	2202	23072	7248
								2%	2%	23%	2%	23%	7%
							grade 7 events	65663	59355	58147	64287	46547	67552
								85%	84%	42%	84%	47%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	0.852943	0.8421979289369688	CCD I2 on	O2	Y
[deg] Pointing Dec	-26.079064	-26.0534216478558	CCD I3 on	O3	Y
[deg] Pointing Roll	79.631188	79.78309095226753	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	682114218.184000	682113208.1630599	CCD S5 on	N	N
Observation start date	2019-08-13T20:09:09	2019-08-13T19:53:28	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	682124218.184000	682125495.8638	On-chip summing requested	N	N
Observation end date	2019-08-13T22:55:49	2019-08-13T23:18:15	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





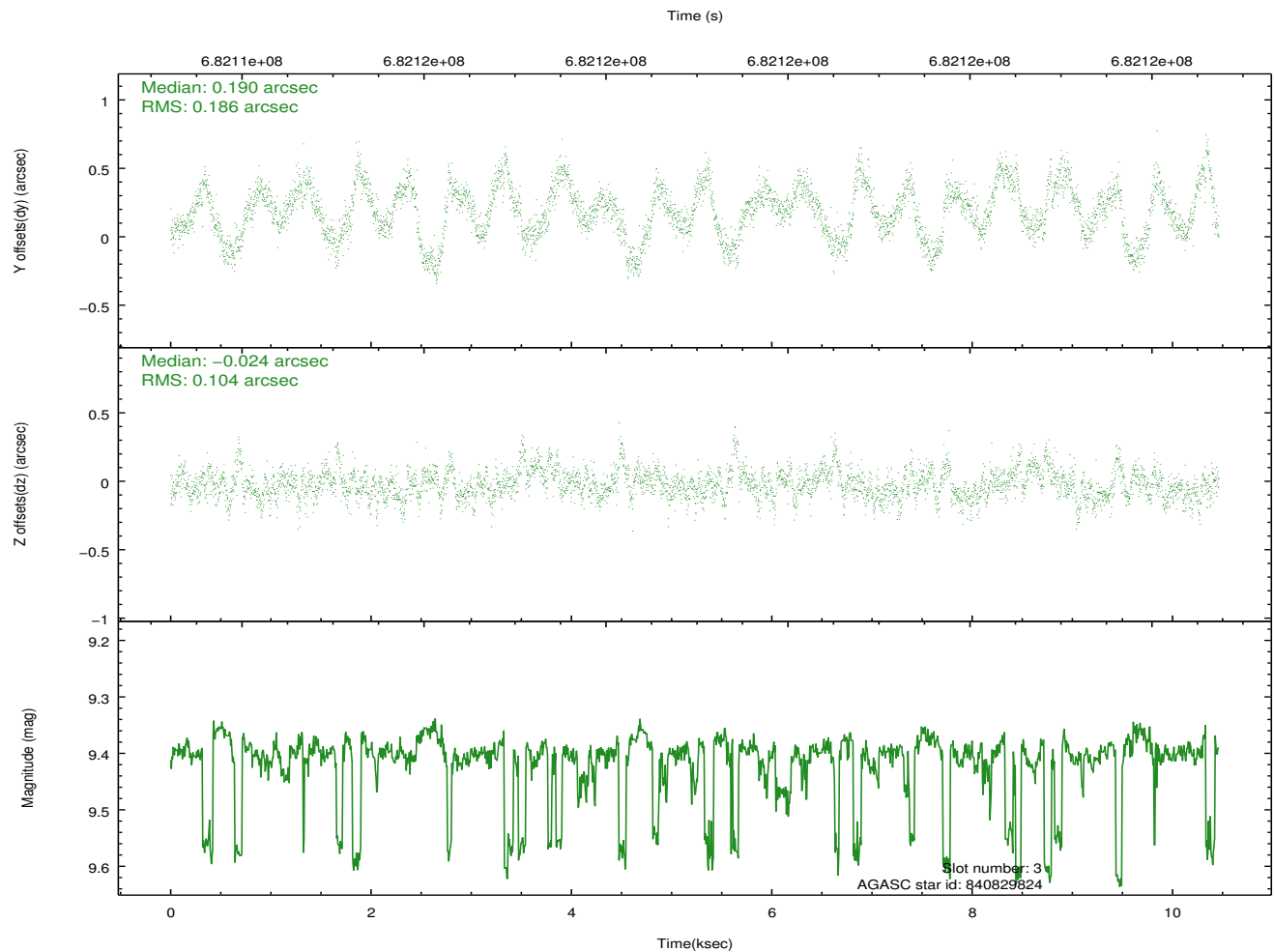
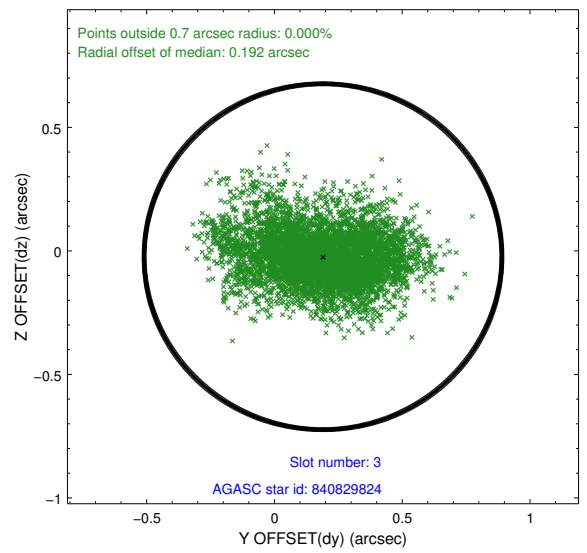
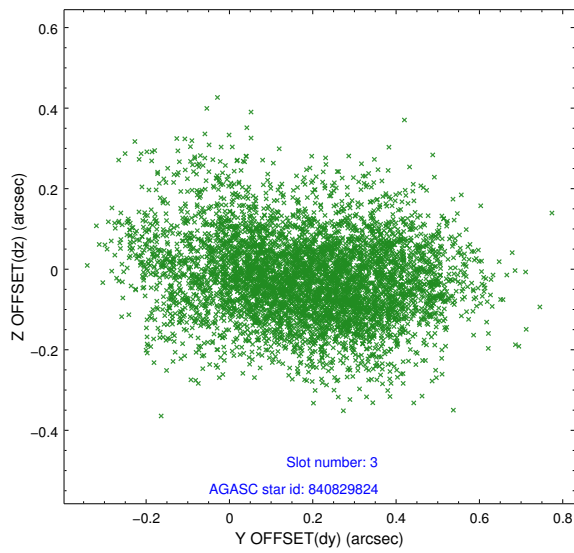
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.05	2553	1.000	-0.263	-0.085	0.020	0.041	0.000000	0.000000	-759.65	-1737
1	FID		ACIS-S-4	7.19	2553	1.000	0.545	0.149	0.013	0.021	0.000000	0.000000	2154.16	170
2	FID		ACIS-S-5	7.17	2553	1.000	-0.317	-0.056	0.019	0.038	0.000000	0.000000	-1811.95	164
3	GUIDE	used	840829824	9.40	5097	1.000	0.190	-0.024	0.224	0.382	0.562188	-26.678555	-2291.50	530
4	GUIDE	used	840831008	8.70	5098	1.000	0.152	0.259	0.113	0.180	0.855542	-26.415181	-1188.44	-225
5	GUIDE	used	840831296	9.01	5094	1.000	-0.091	0.112	0.172	0.260	1.032971	-25.892665	764.32	-454
6	GUIDE	used	840833168	9.24	5102	1.000	0.034	-0.087	0.121	0.204	0.400325	-26.469934	-1648.82	1180
7	GUIDE	used	840833360	9.15	5097	1.000	-0.280	-0.267	0.170	0.268	0.455843	-25.798534	752.67	1448

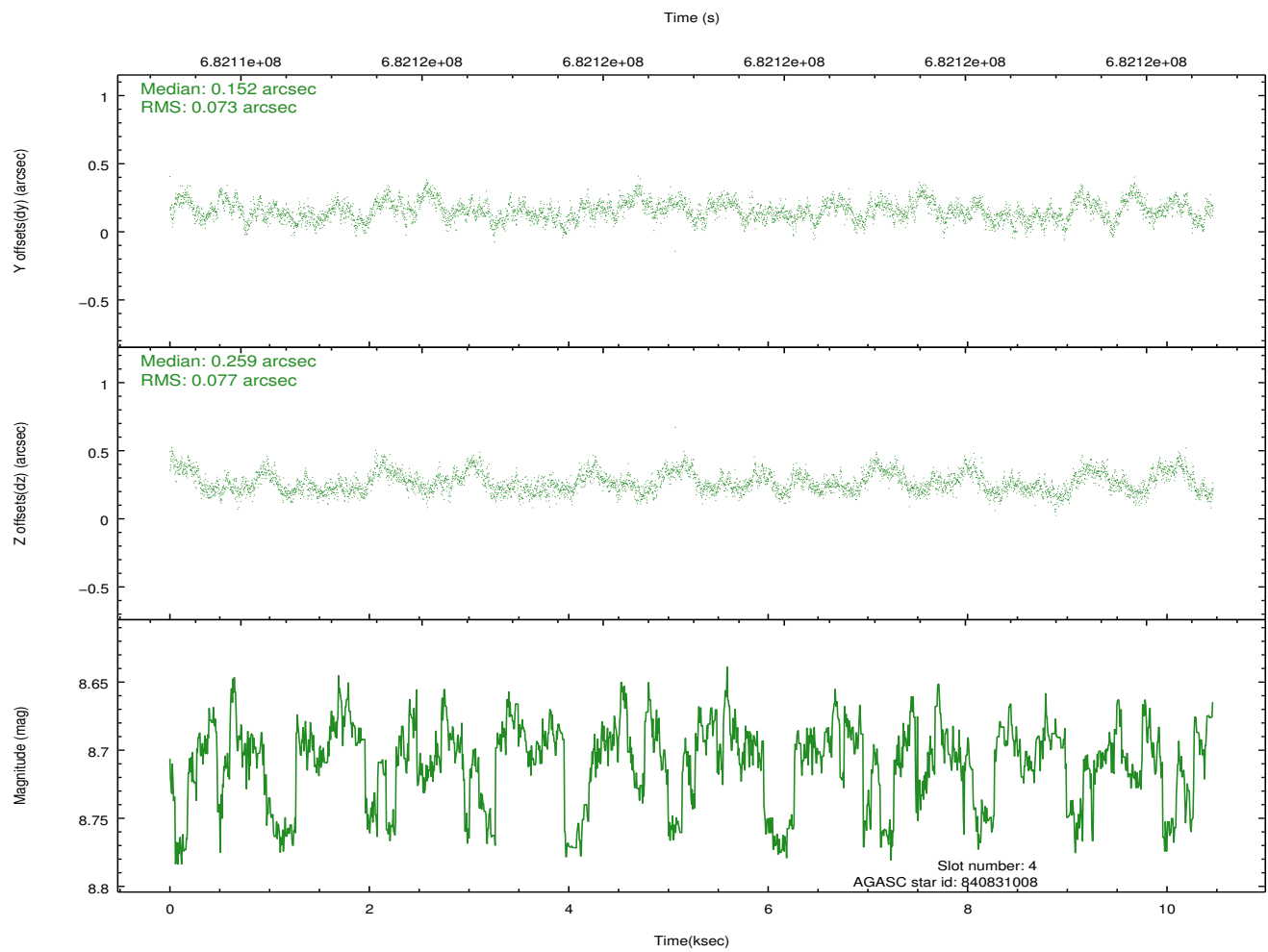
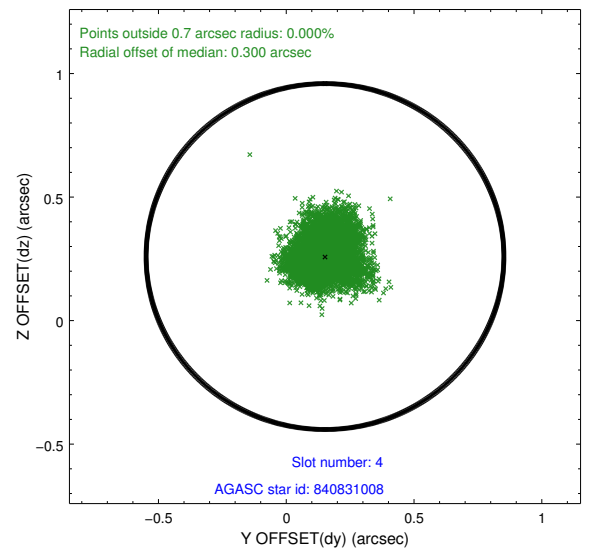
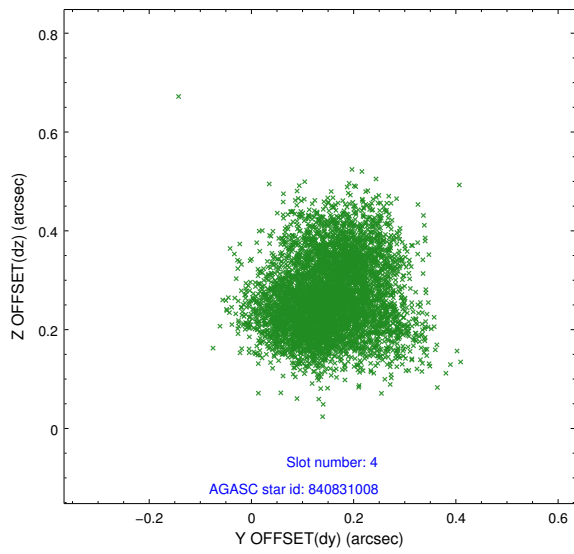
∞

2.4 Star Slots

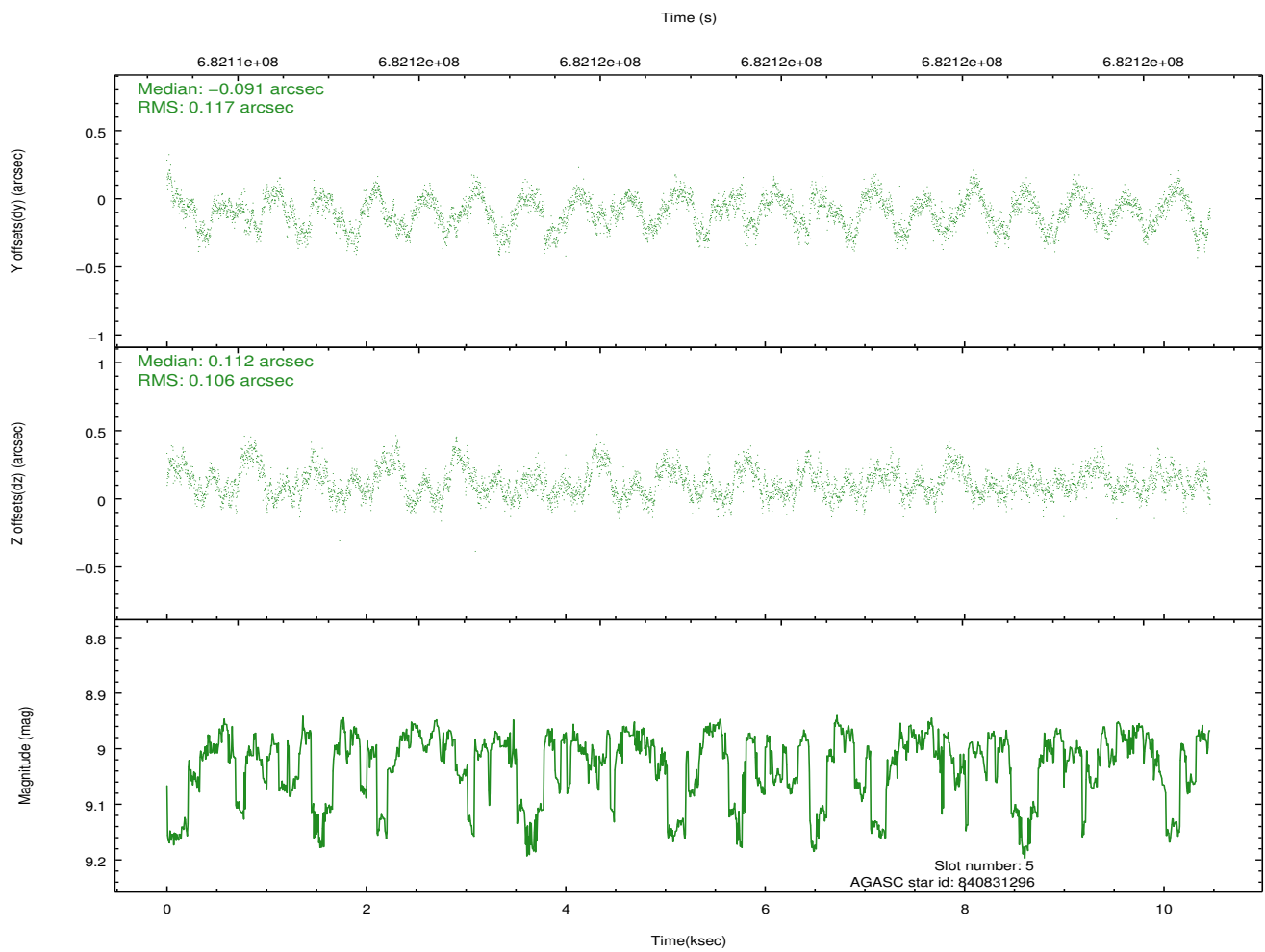
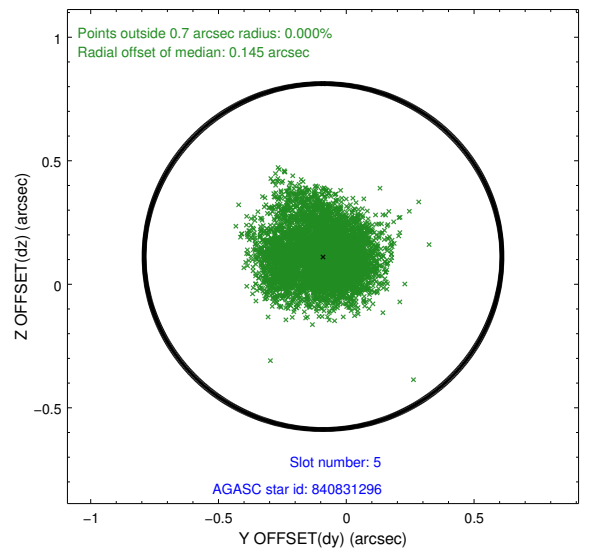
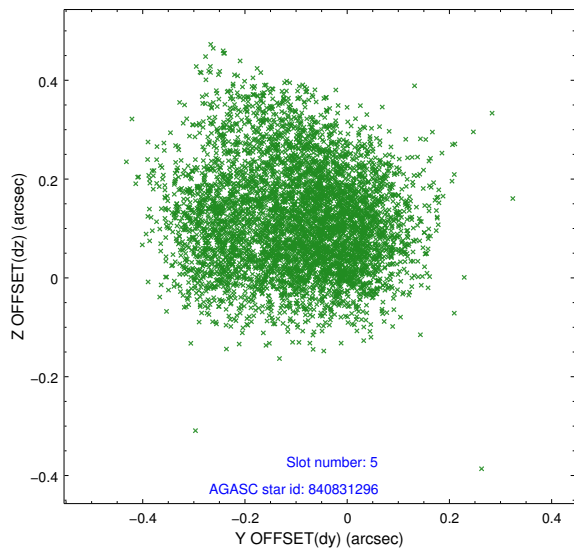
2.4.1 Slot 3



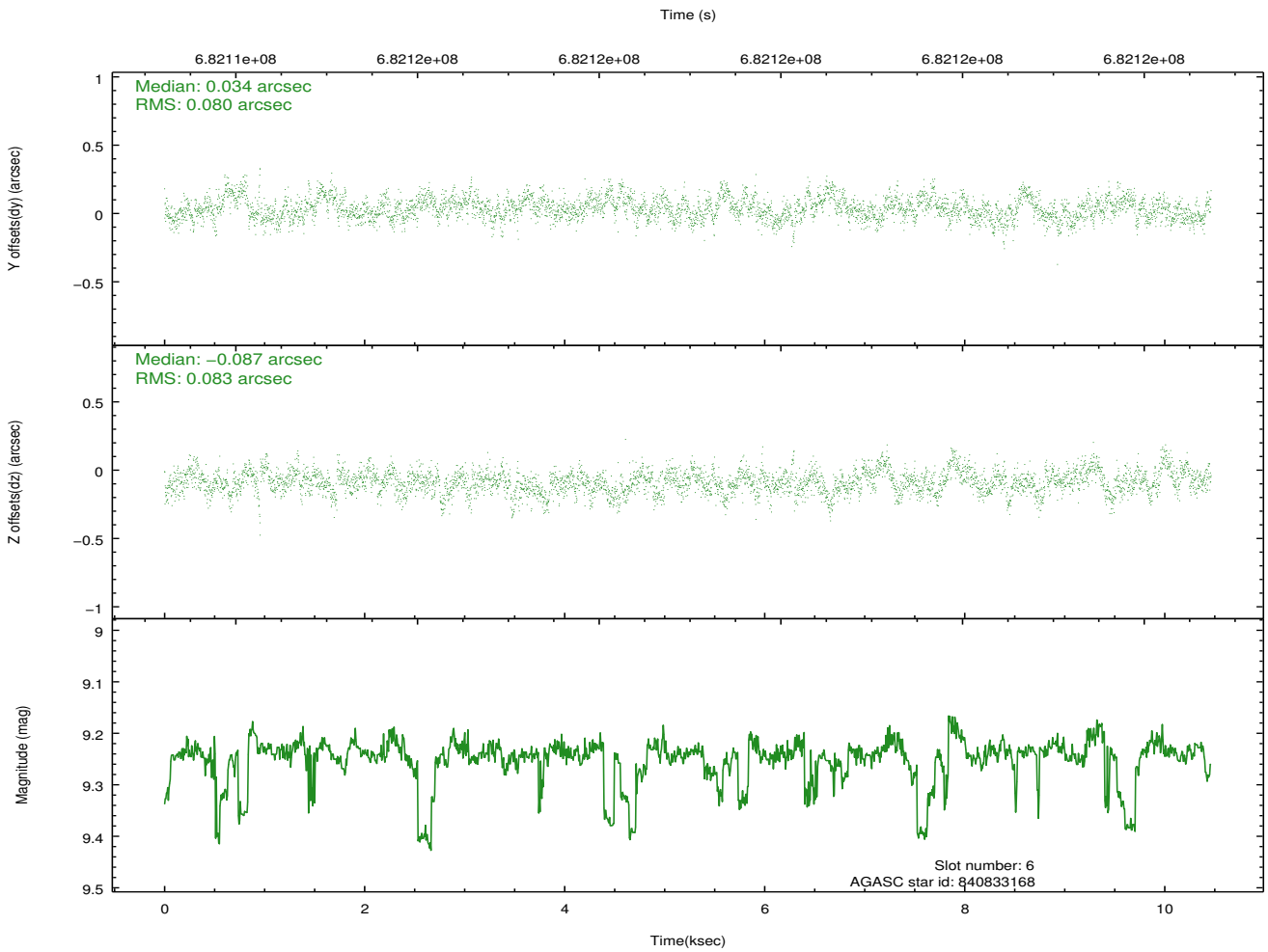
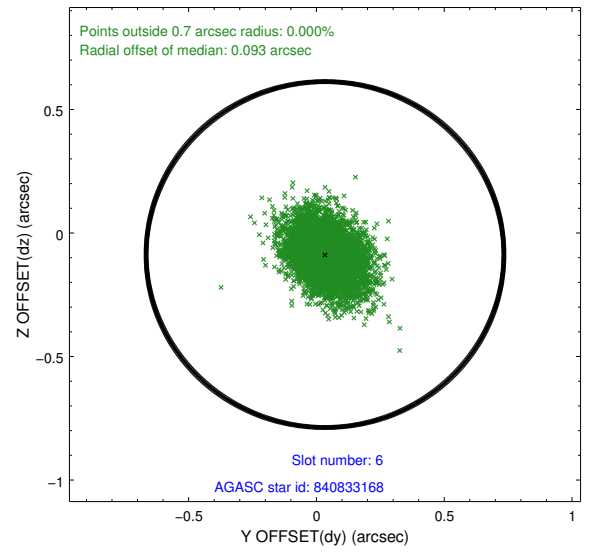
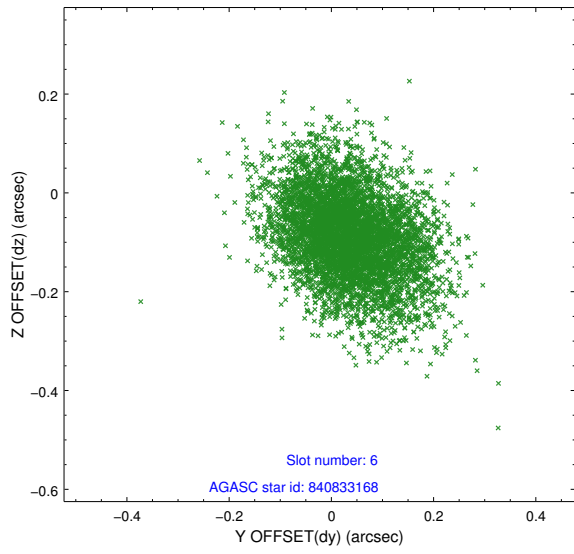
2.4.2 Slot 4



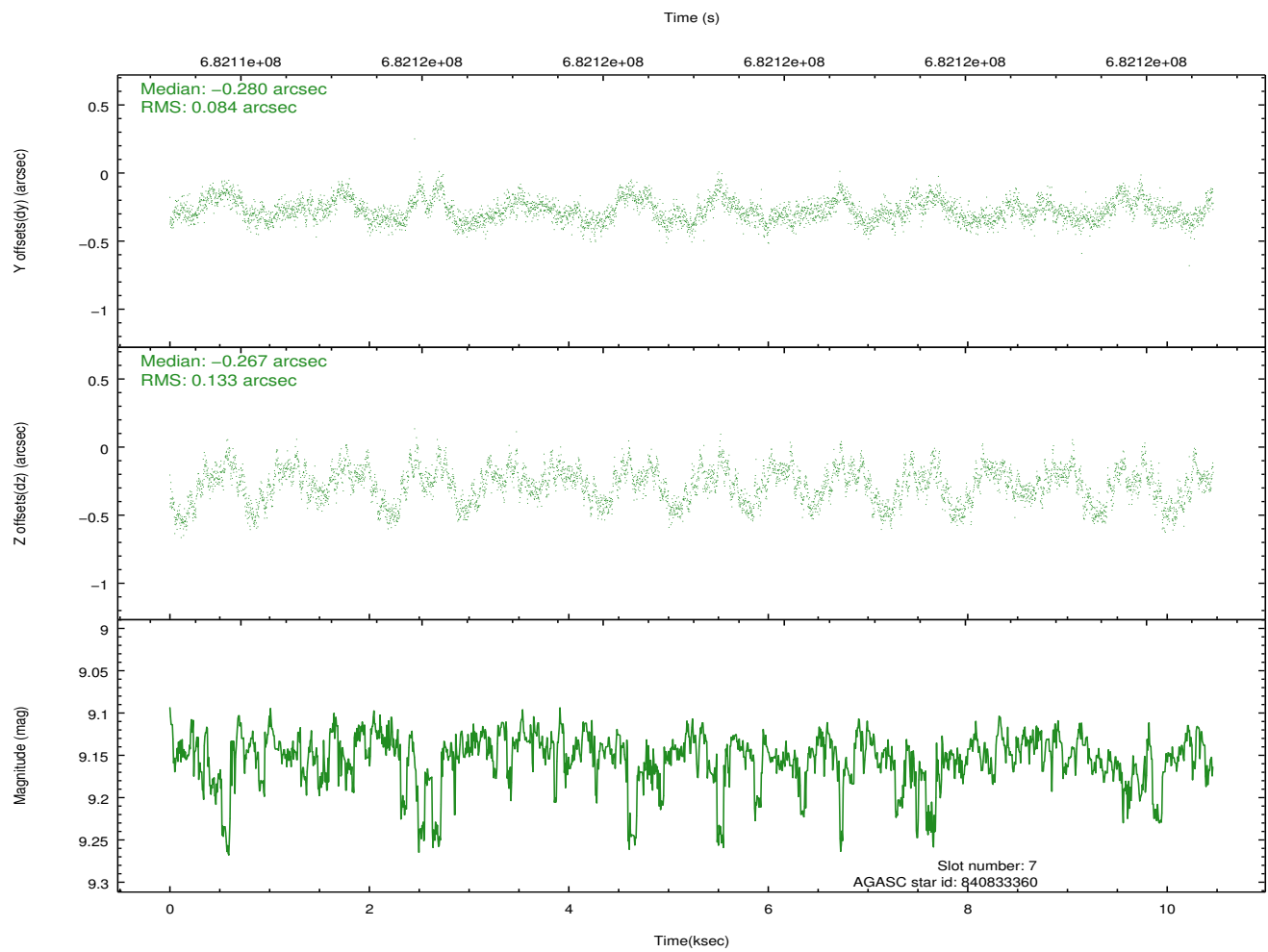
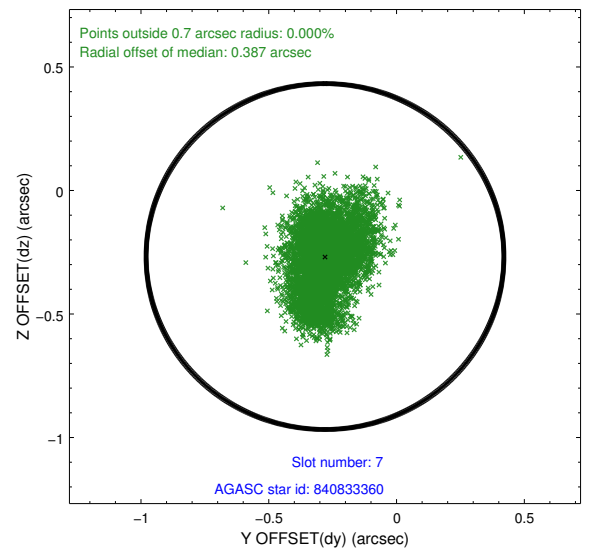
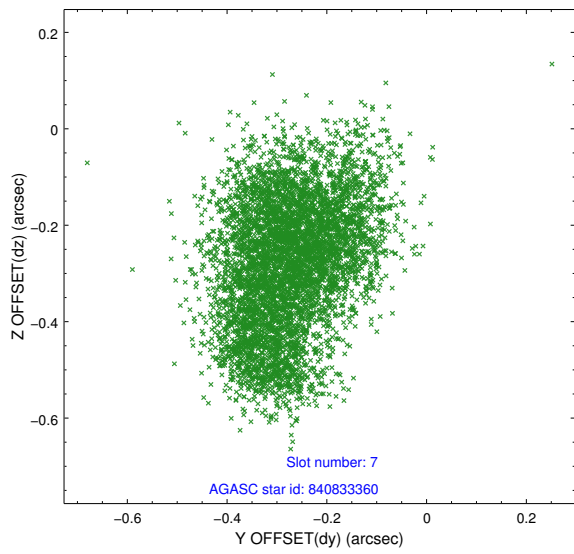
2.4.3 Slot 5



2.4.4 Slot 6

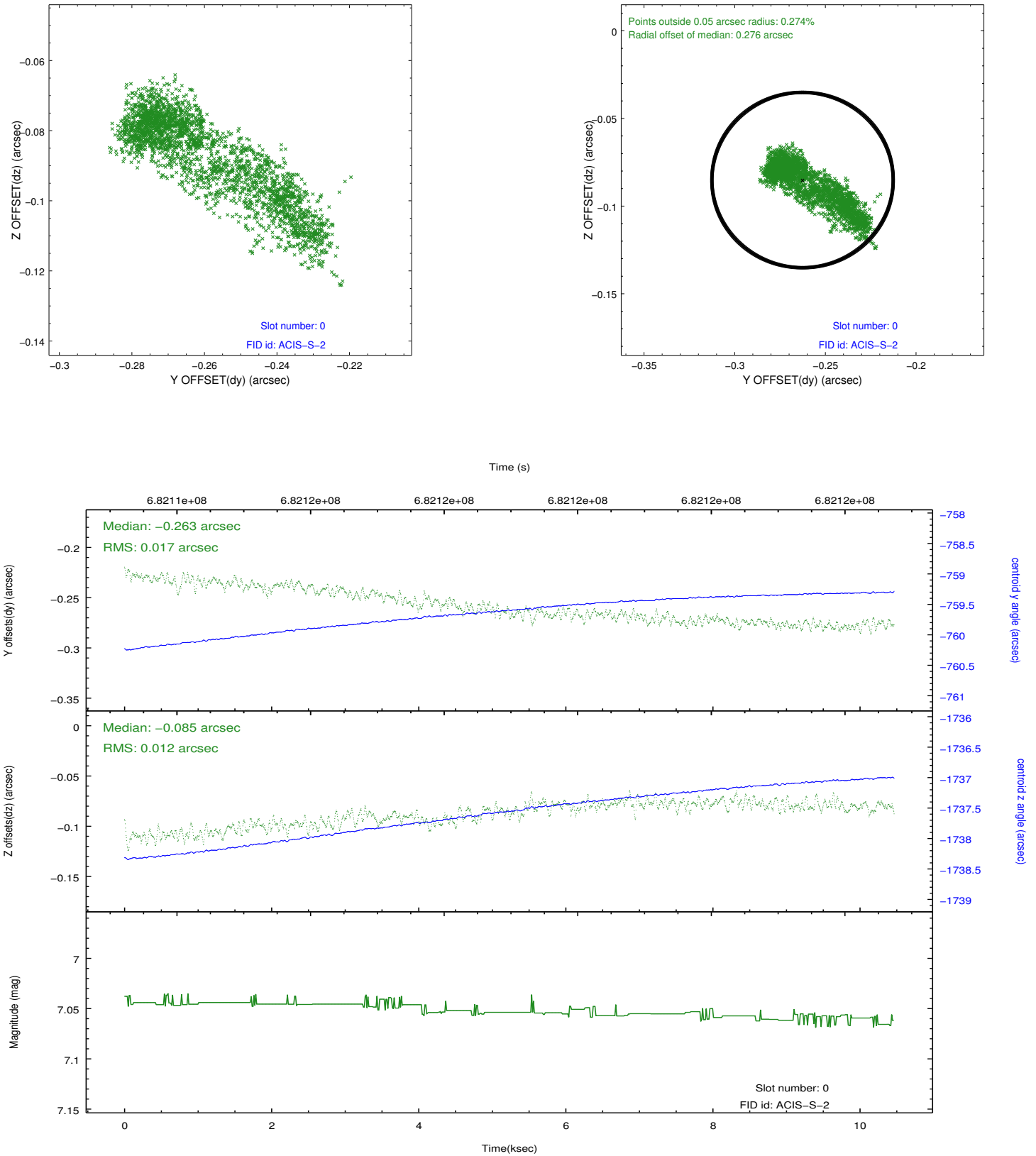


2.4.5 Slot 7

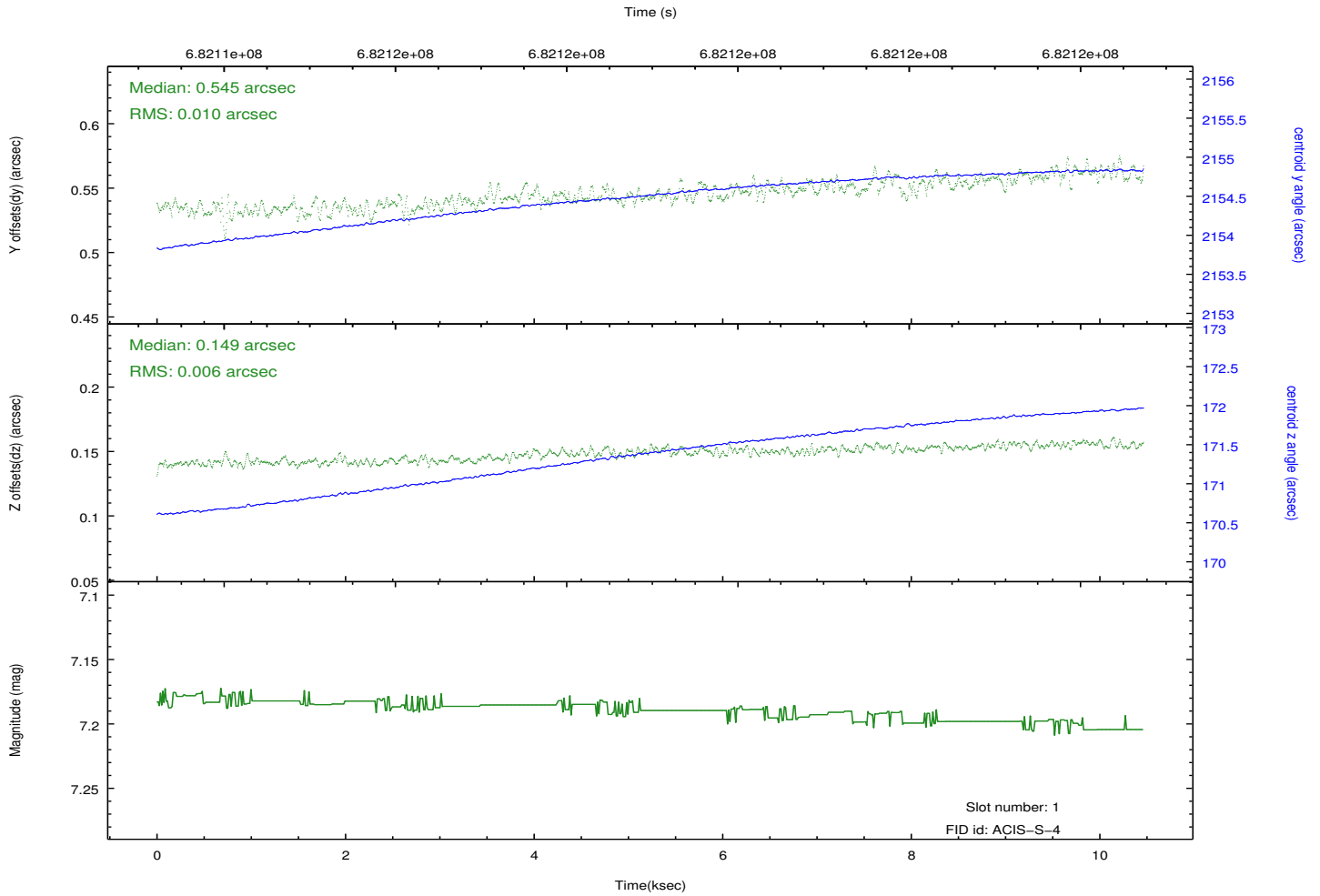
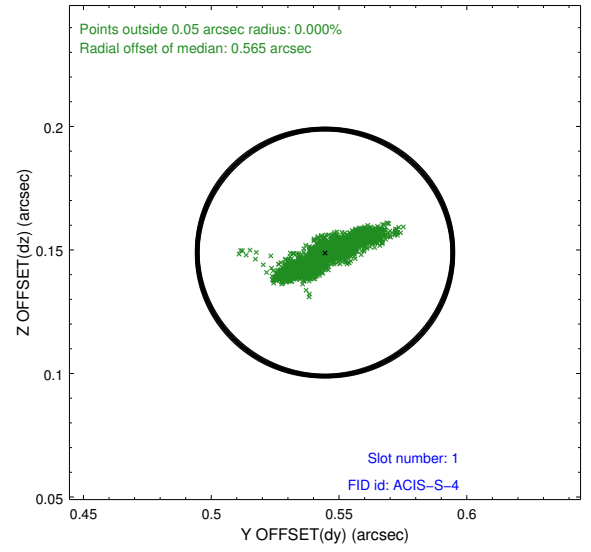
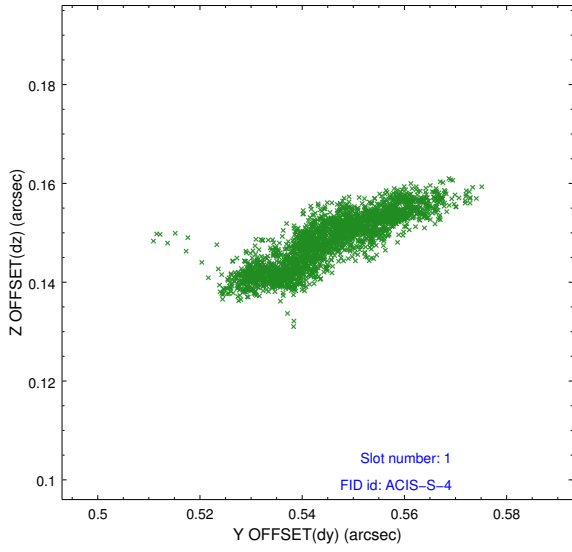


2.5 FID Slots

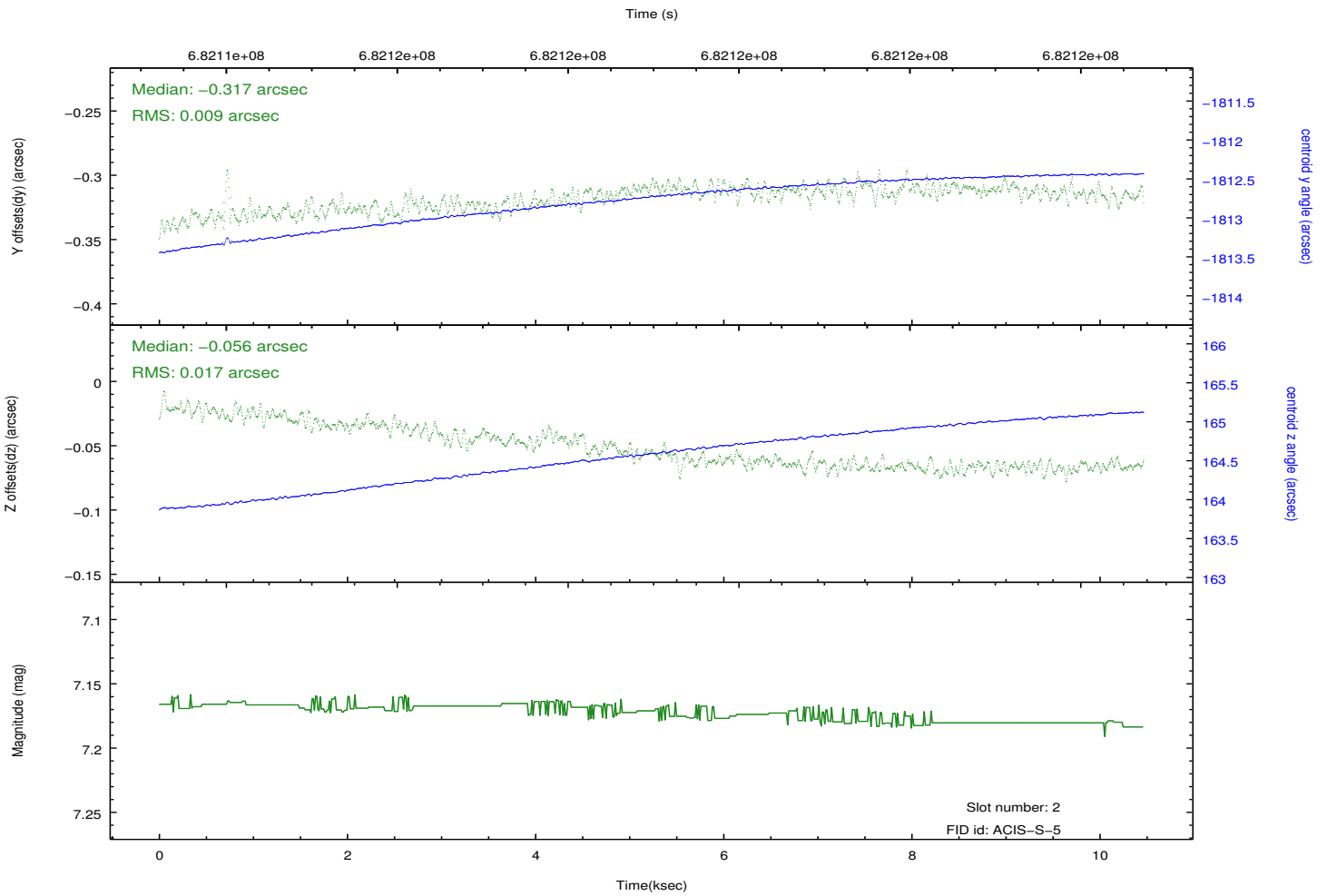
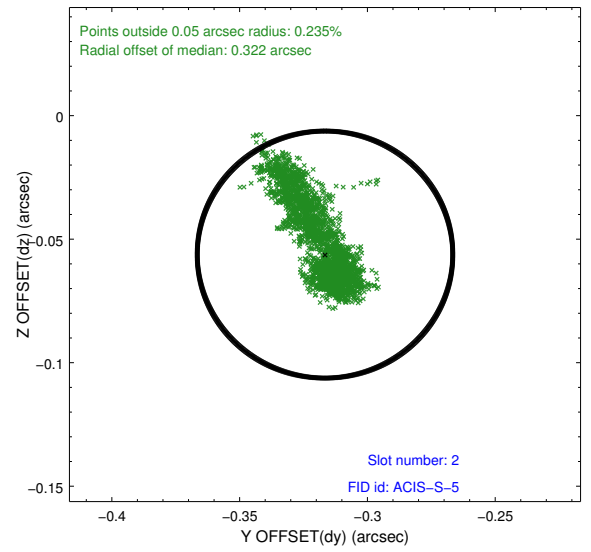
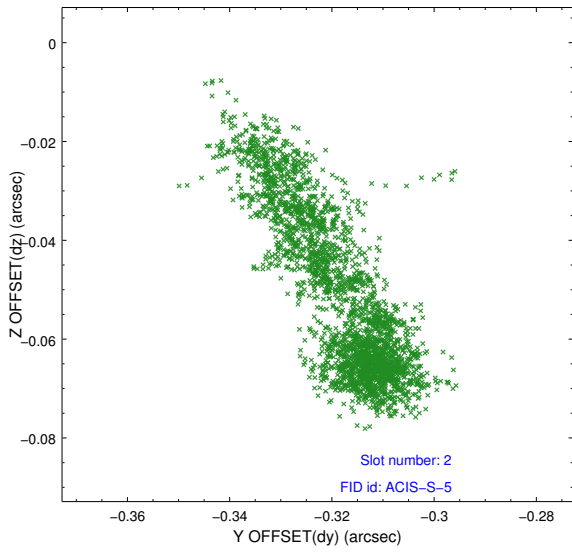
2.5.1 Slot 0



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)	2019.08.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9514520844221

A.2 Comments