

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16019 - L2 Version 2
Chandra X-Ray Center

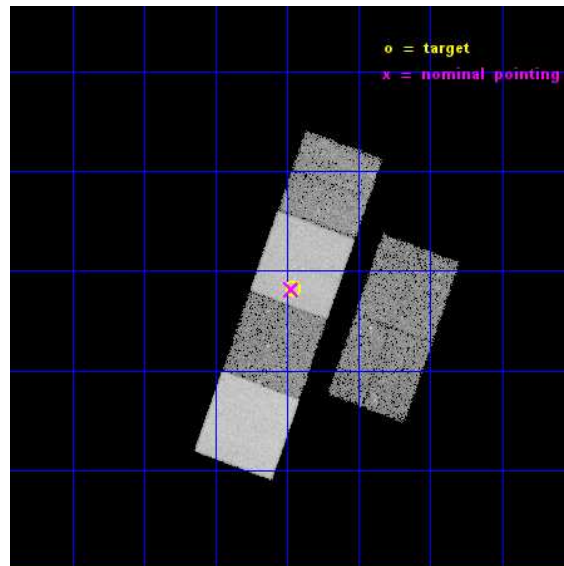
L2 Processing Date : Dec 10 2014

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1 Front

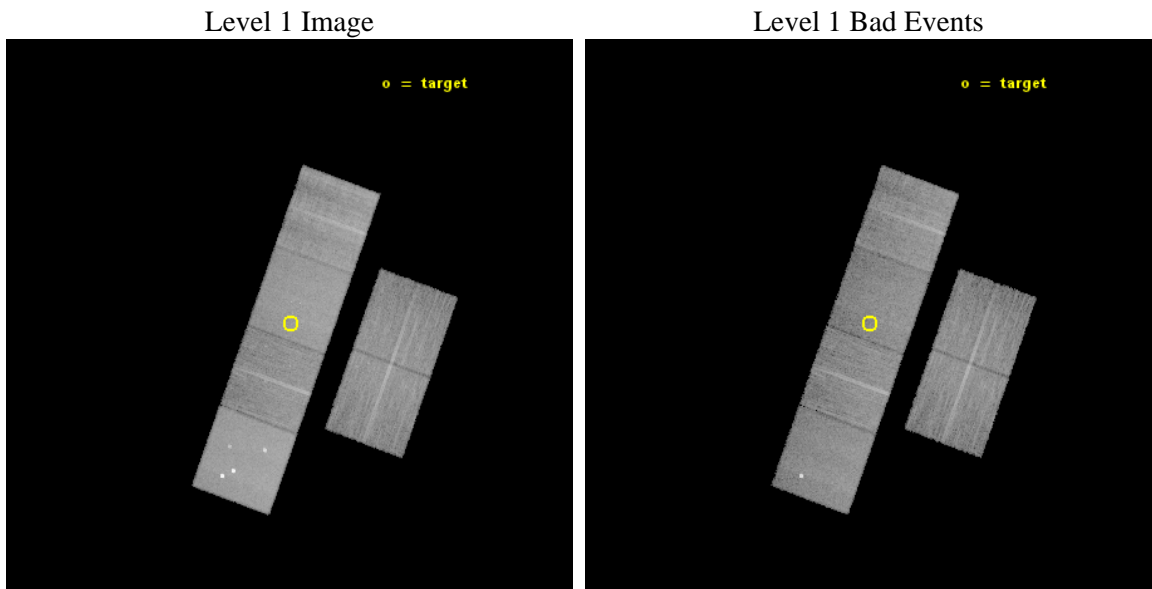
seq_num	601107	Sequence number
obs_id	16019	Observation id
title	X-Rays from Lyman Break Analog	Proposal title
observer	Prof. Philip Kaaret	Principal investigator
object	SDSS J005527.46-002148.6	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	13.864583	Observer's specified target RA [deg]
dec_targ	-0.3635	Observer's specified target Dec [deg]
ra_nom	13.867541959075	Nominal RA [deg]
dec_nom	-0.36417118578129	Nominal Dec [deg]
roll_nom	289.84243326296	Nominal Roll [deg]
revision	2	Processing version of data
ontime	22966.399914503	Sum of GTIs [s]
livetime	22675.58553008	Livetime [s]
ontime2	22966.399914503	Sum of GTIs [s]
ontime3	22966.399914503	Sum of GTIs [s]
ontime5	22966.399914503	Sum of GTIs [s]
ontime6	22966.399914503	Sum of GTIs [s]
ontime7	22966.399914503	Sum of GTIs [s]
ontime8	22966.399914503	Sum of GTIs [s]
l2events	195811	Number of level 2 events



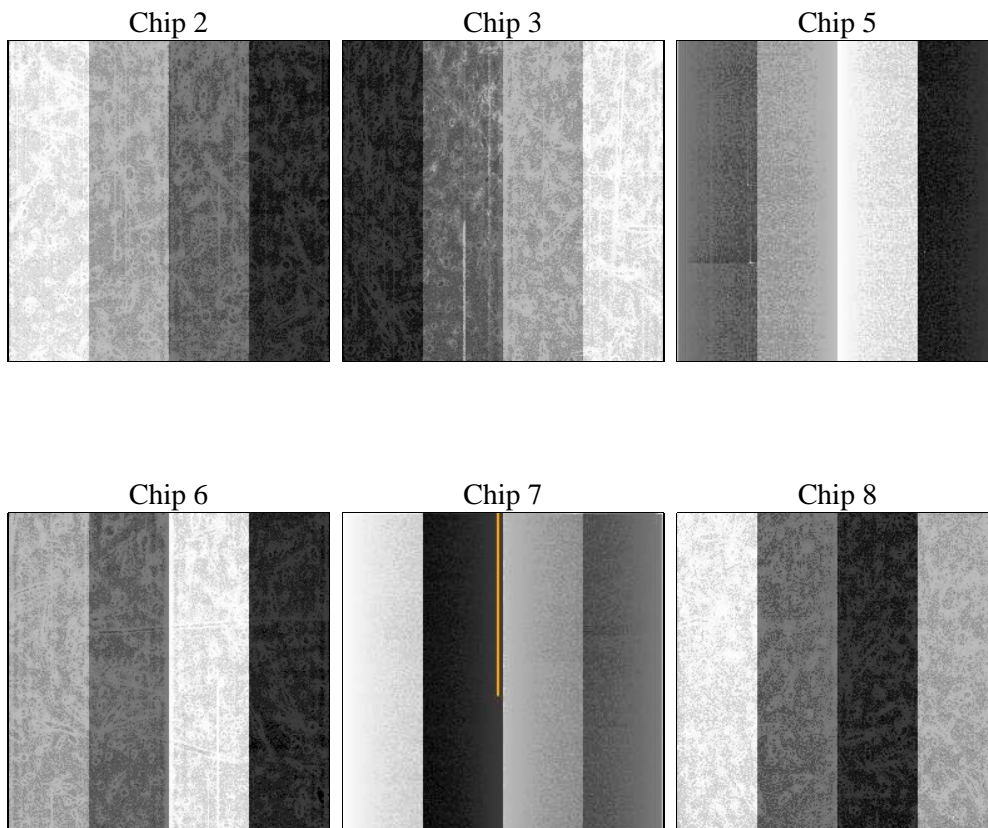
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	23000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	22966.399914503	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	22966.399914503	Sum of GTIs [s]
date	2014-12-10T04:33:50	Date and time of file creation	ontime3	22966.399914503	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	22966.399914503	Sum of GTIs [s]
			ontime6	22966.399914503	Sum of GTIs [s]
			ontime7	22966.399914503	Sum of GTIs [s]
			ontime8	22966.399914503	Sum of GTIs [s]
			l1events	823564	Number of level 1 events

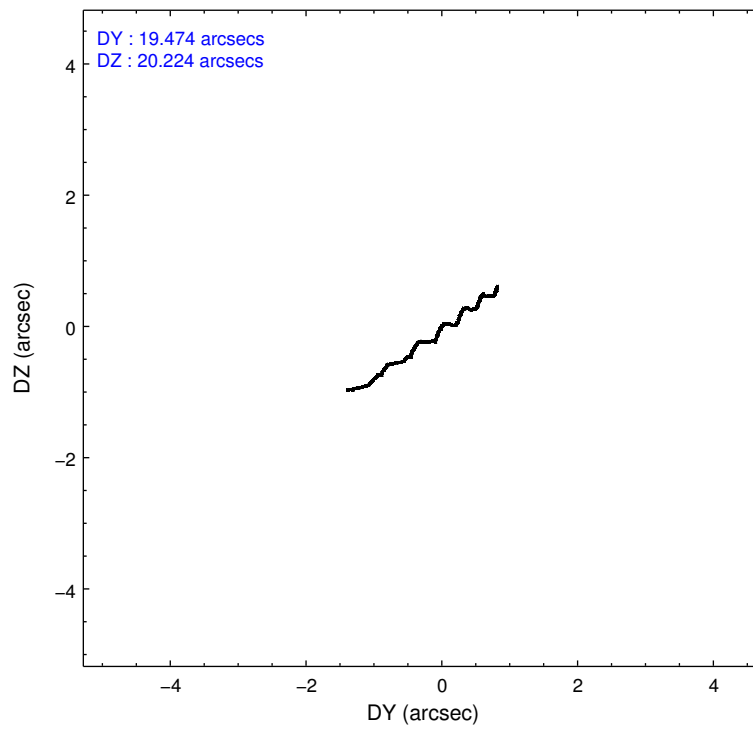
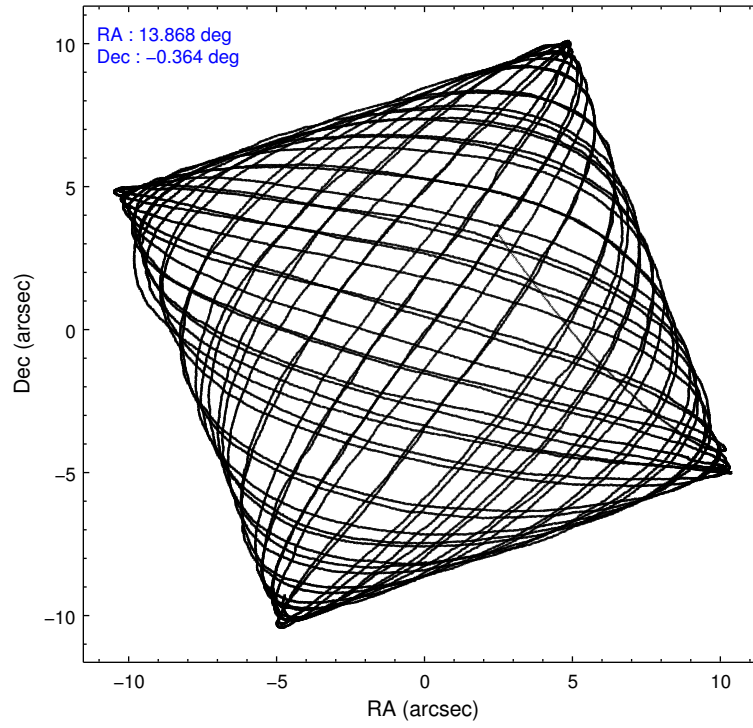
2.1.4 Events

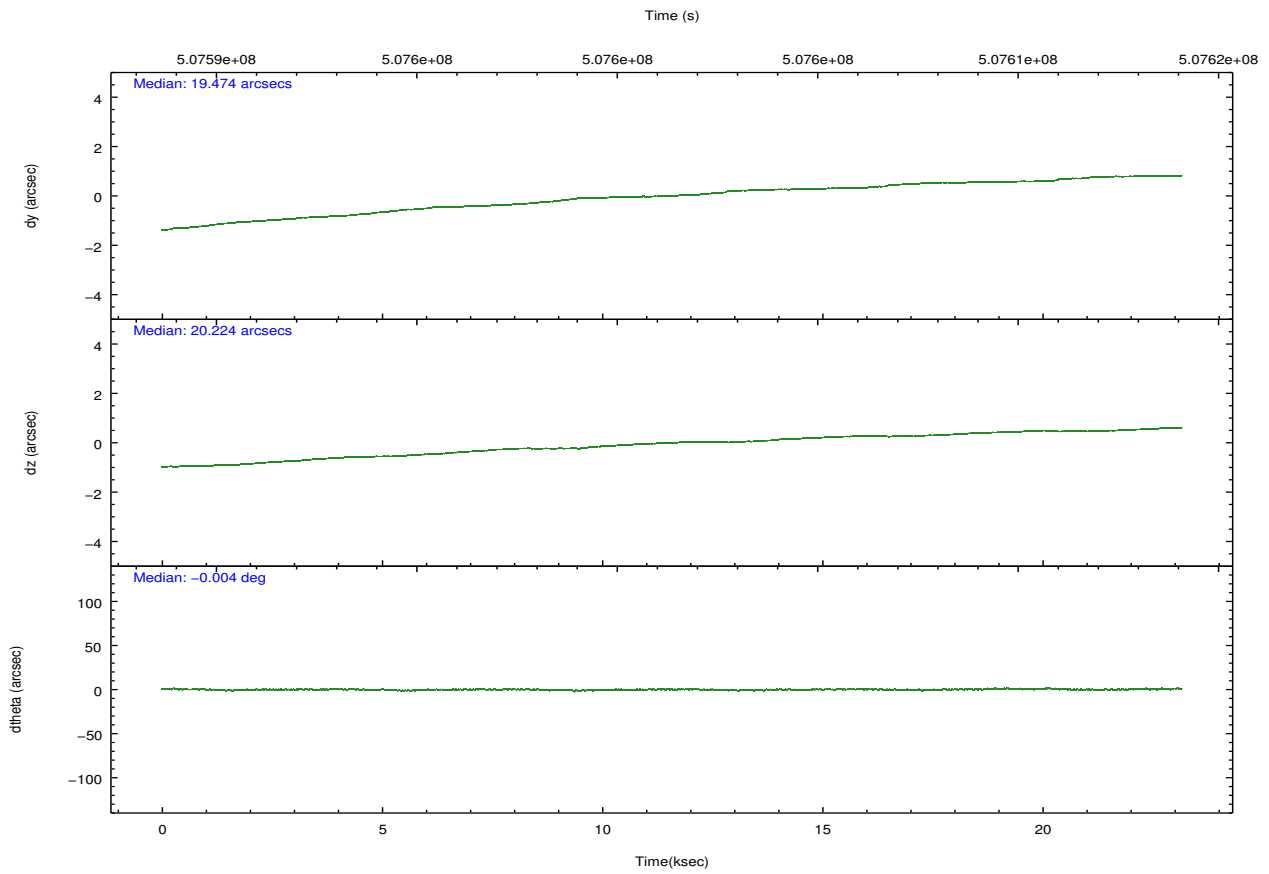
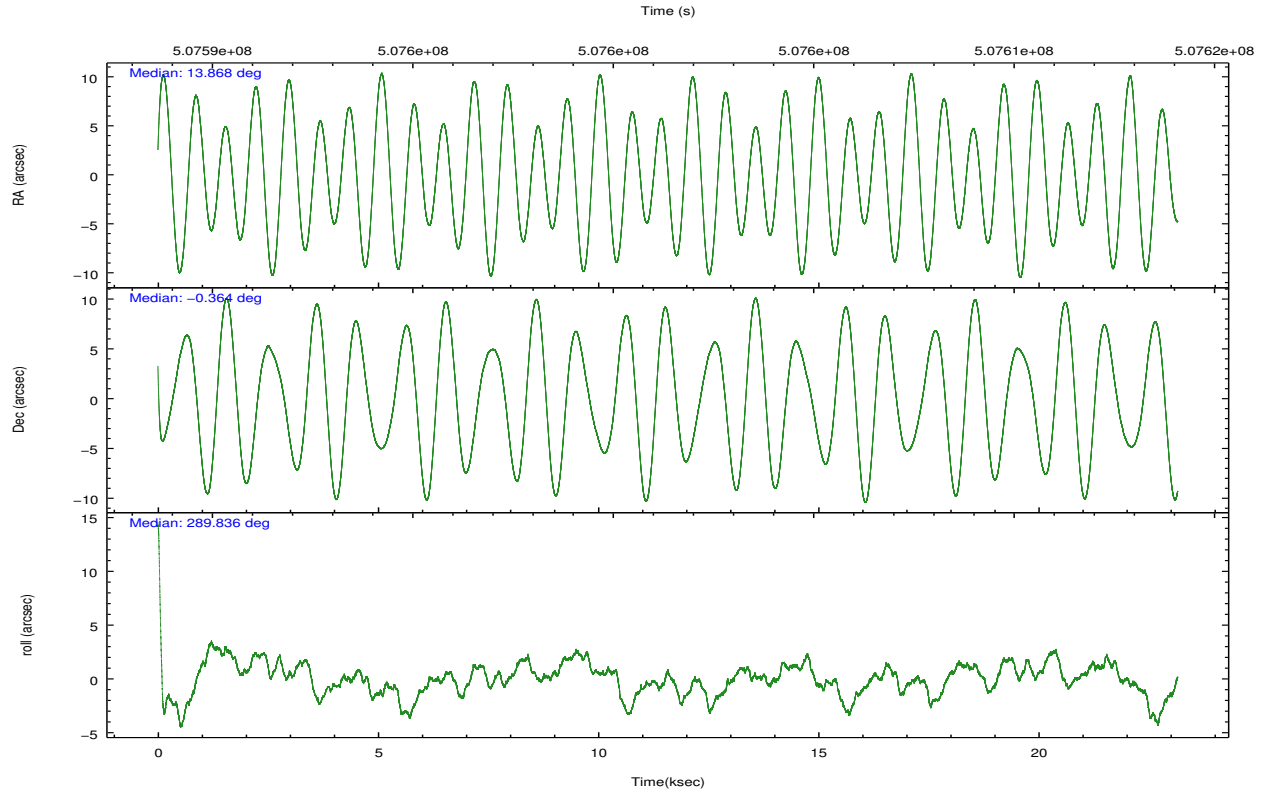
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	111075	103214	196584	112487	151586	148618	grade 0 events	4677	4221	15513	4693	5852	11760
rejected events	97881	91155	97671	98704	85455	108755		4%	4%	7%	4%	3%	7%
rejected %	88%	88%	49%	87%	56%	73%	grade 1 events	77	54	324	65	185	130
								0%	0%	0%	0%	0%	0%
							grade 2 events	3391	2607	30146	3111	13469	9472
								3%	2%	15%	2%	8%	6%
							grade 3 events	1303	1357	3019	1375	5647	3988
								1%	1%	1%	1%	3%	2%
							grade 4 events	1293	1315	2892	1446	5560	3918
								1%	1%	1%	1%	3%	2%
							grade 5 events	4869	5748	14250	5799	15579	8468
								4%	5%	7%	5%	10%	5%
							grade 6 events	2531	2560	47373	3161	35620	10732
								2%	2%	24%	2%	23%	7%
							grade 7 events	92934	85352	83067	92837	69674	100150
								83%	82%	42%	82%	45%	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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	13.846401	13.86754195907499	CCD I2 on	O2	Y
[deg] Pointing Dec	-0.346819	-0.36417118578129	CCD I3 on	O3	Y
[deg] Pointing Roll	289.685668	289.8424332629572	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	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.145094680475	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01257209746719923	CCD S4 on	O4	Y
[s] Observation start time (MET)	507589940.184000	507588463.99062	CCD S5 on	N	N
Observation start date	2014-01-31T21:11:13	2014-01-31T20:47:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	507612940.184000	507613889.62952	On-chip summing requested	N	N
Observation end date	2014-02-01T03:34:33	2014-02-01T03:51:29	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





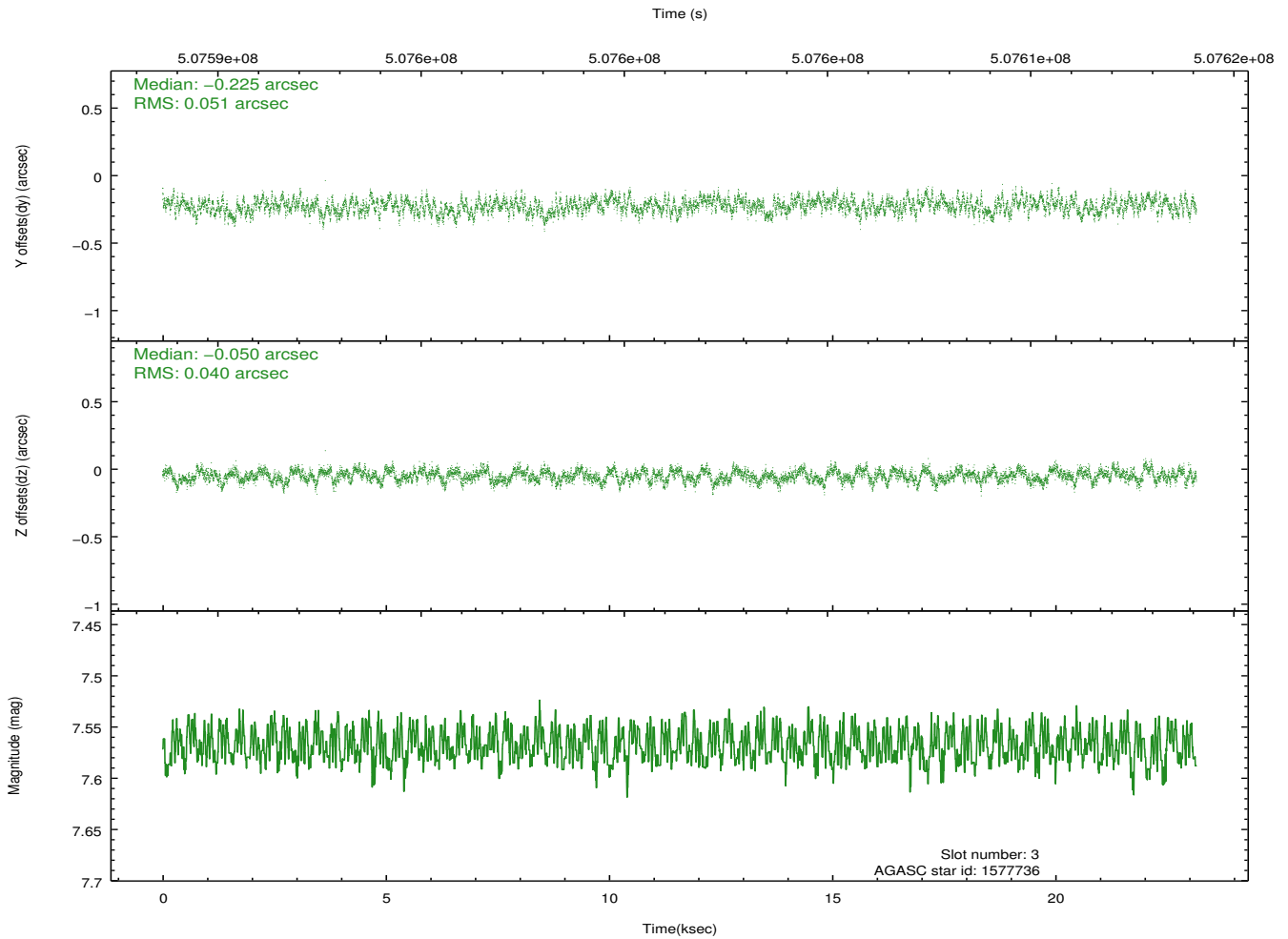
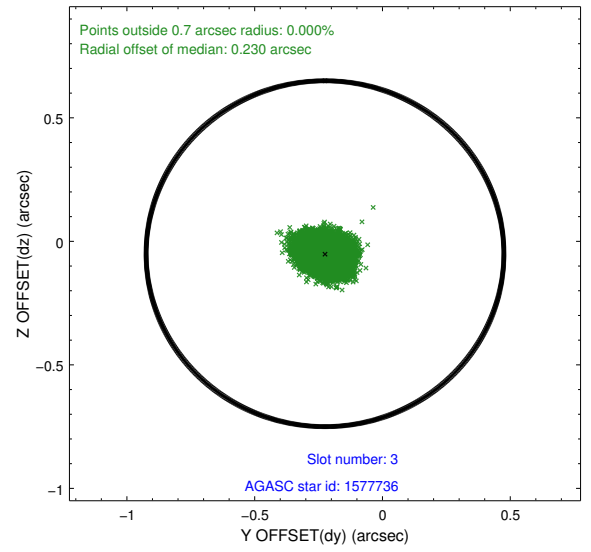
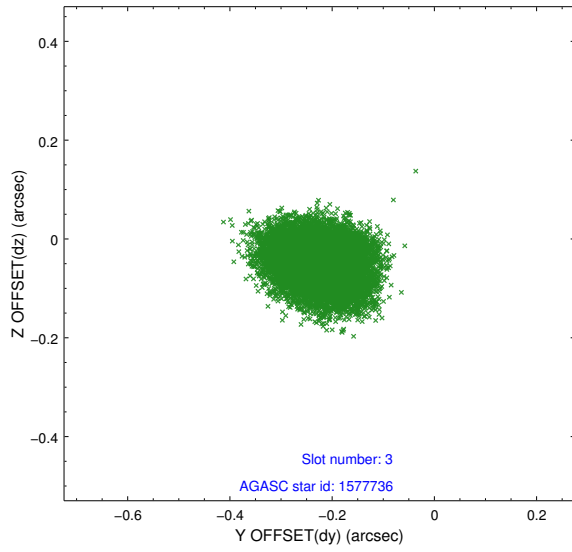
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.94	5649	-0.123	0.002	0.014	0.032	0.000000	0.000000	-772.62	-1741.54
1	FID		ACIS-S-4	7.03	5649	0.231	0.058	0.012	0.023	0.000000	0.000000	2140.94	166.84
2	FID		ACIS-S-5	7.05	5649	-0.142	-0.053	0.022	0.030	0.000000	0.000000	-1825.31	160.58
3	GUIDE	used	1577736	7.57	11295	-0.225	-0.050	0.070	0.110	13.888277	0.019580	-1190.44	585.83
4	GUIDE	used	612631440	9.36	11292	-0.040	-0.028	0.127	0.204	13.345518	-0.775803	847.54	-2217.92
5	GUIDE	used	612637176	9.34	11293	0.046	0.105	0.128	0.214	13.226494	-0.447694	-409.02	-2224.03
6	GUIDE	used	612637576	8.94	11294	0.058	-0.065	0.082	0.132	14.501240	-0.747907	2154.02	1732.99
7	GUIDE	used	612638048	8.81	11295	0.161	0.042	0.080	0.129	13.944560	-0.794877	1638.76	-210.03

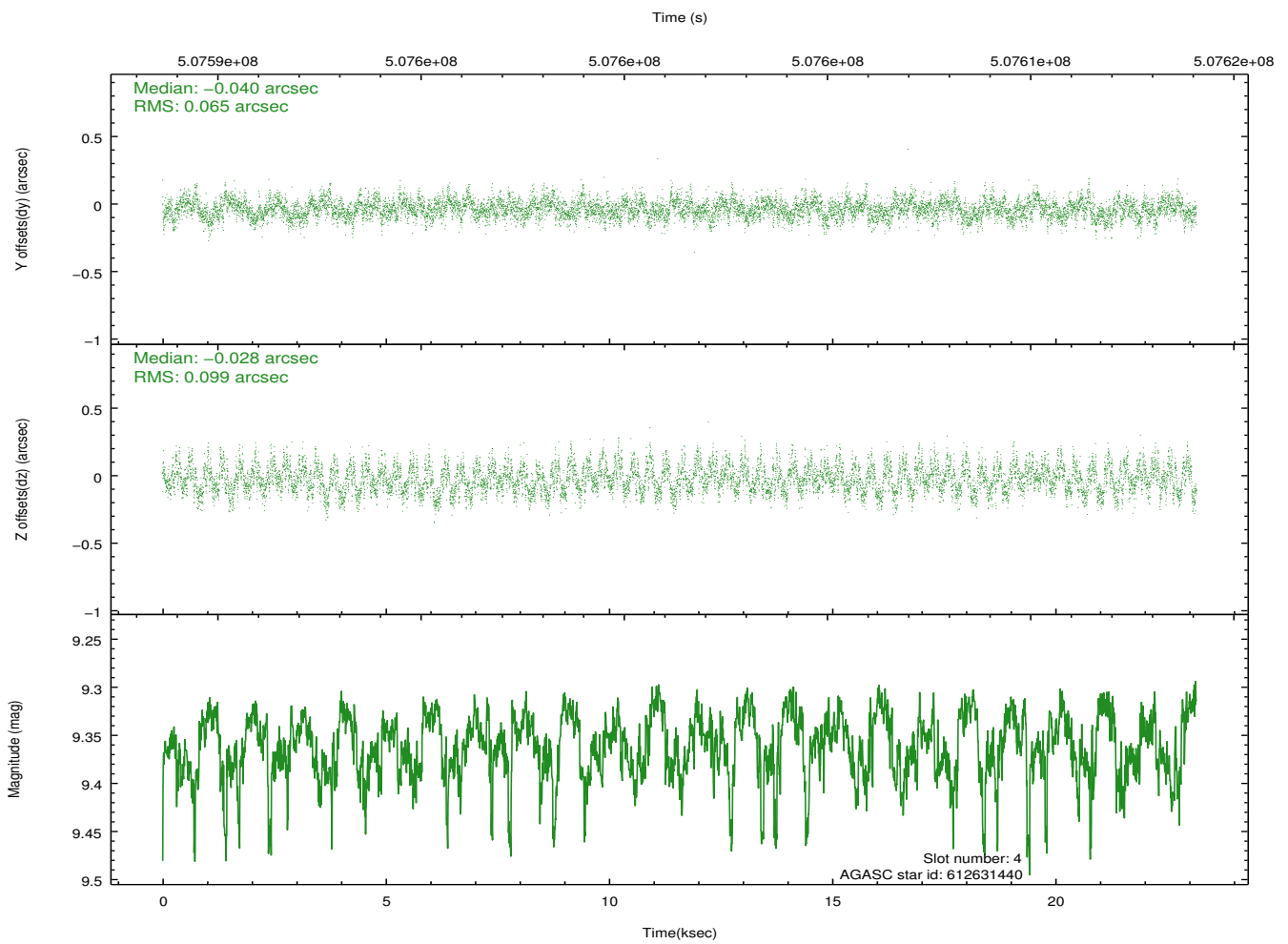
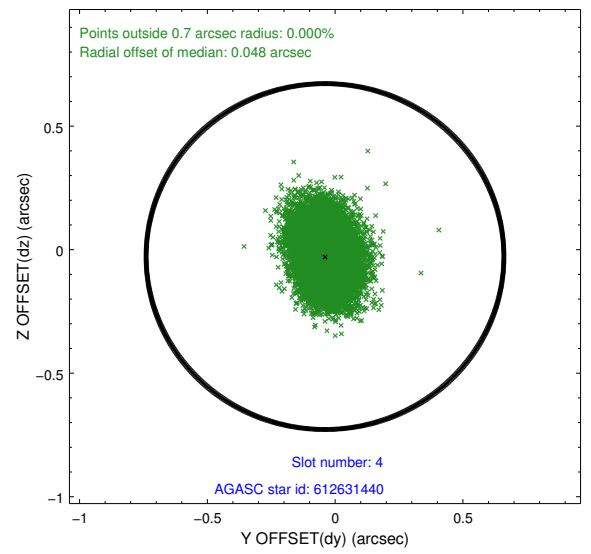
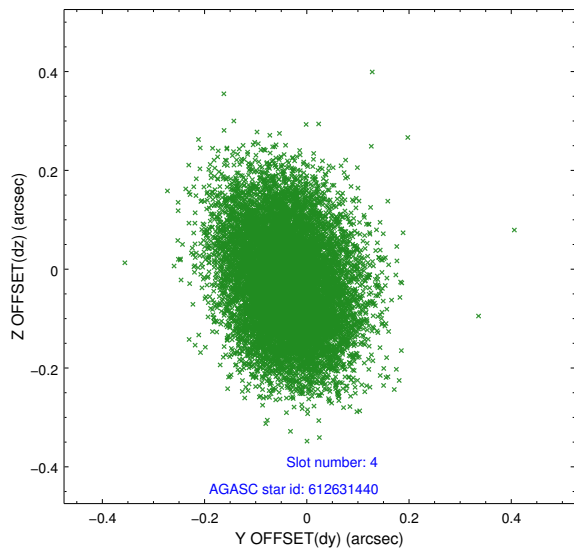
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2.4 Star Slots

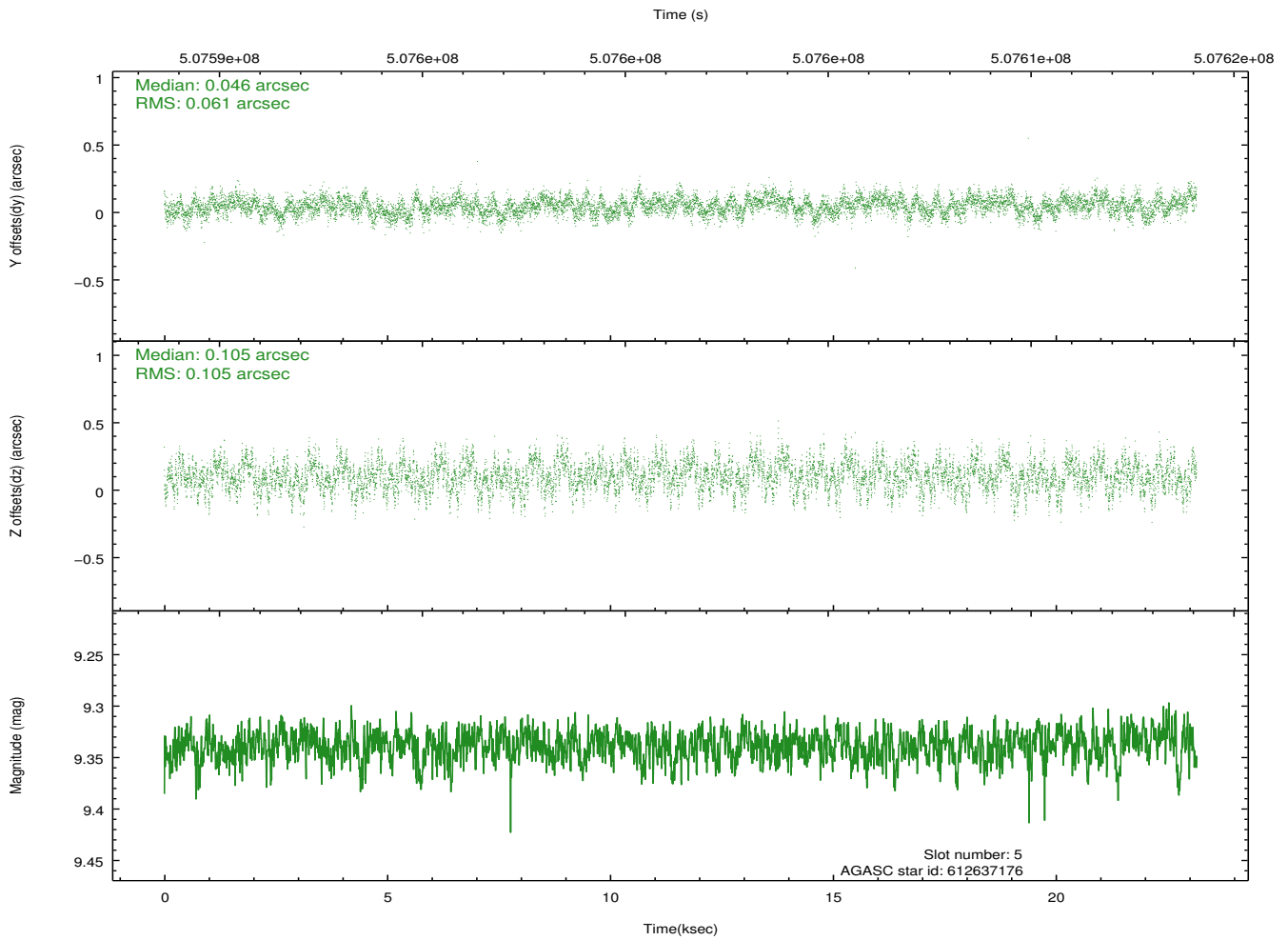
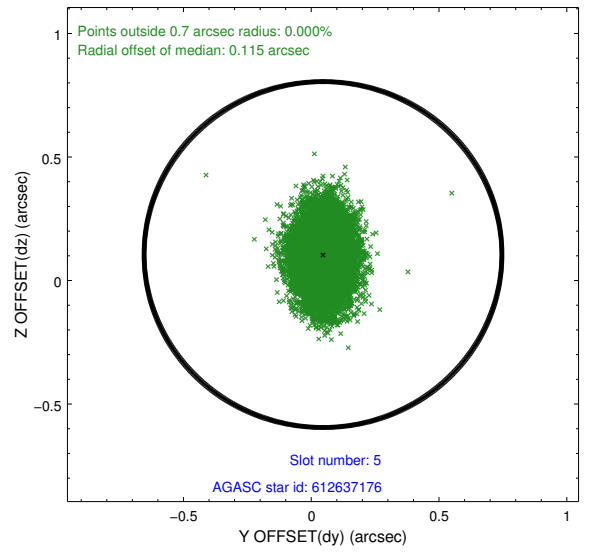
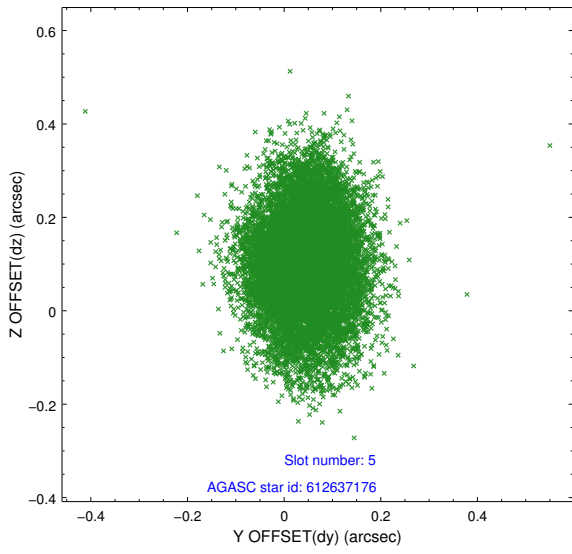
2.4.1 Slot 3



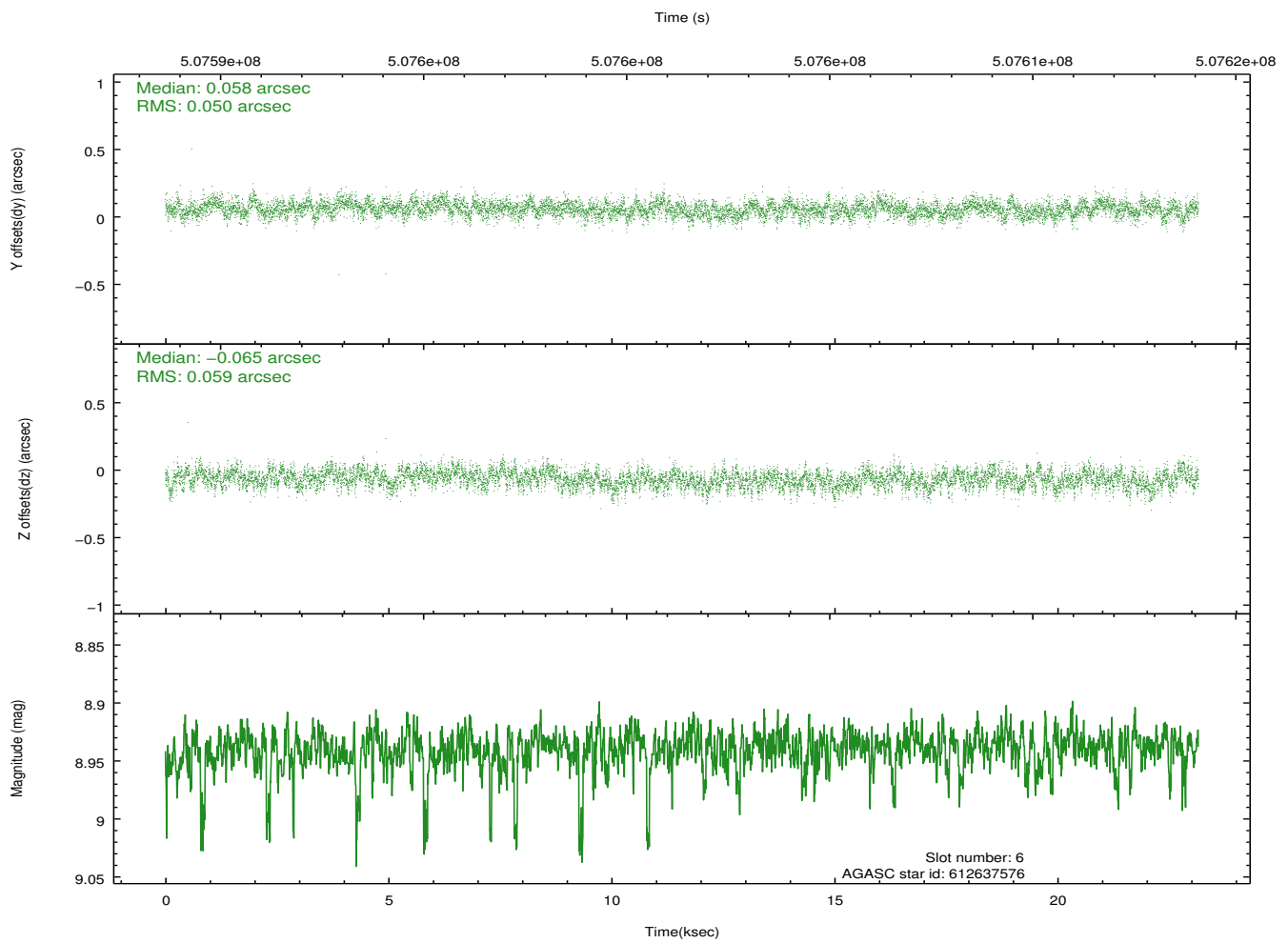
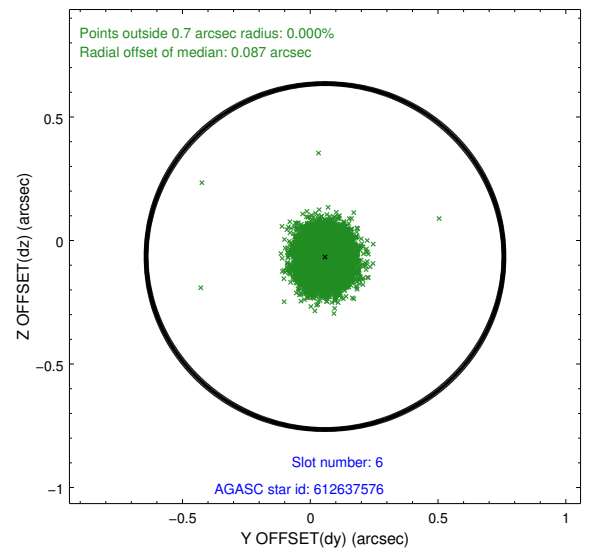
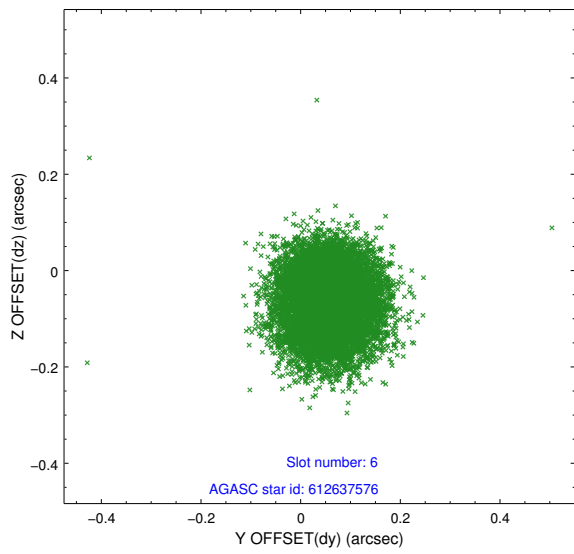
2.4.2 Slot 4



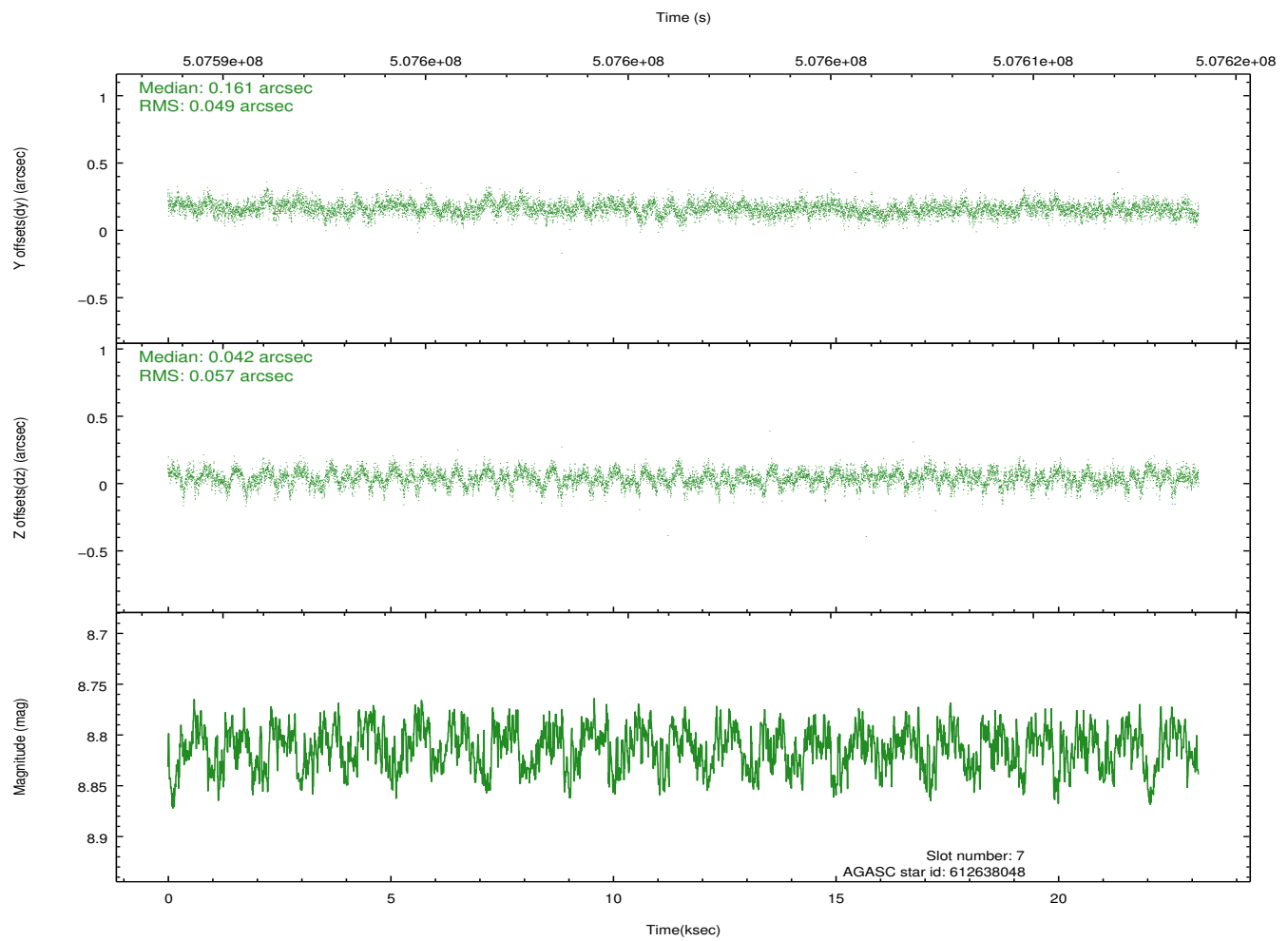
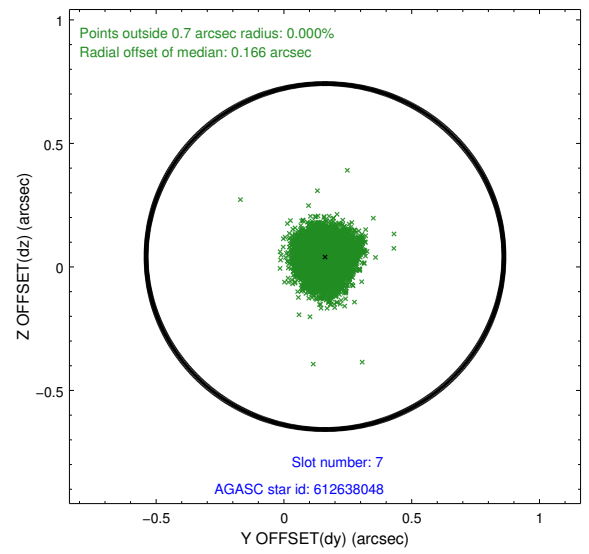
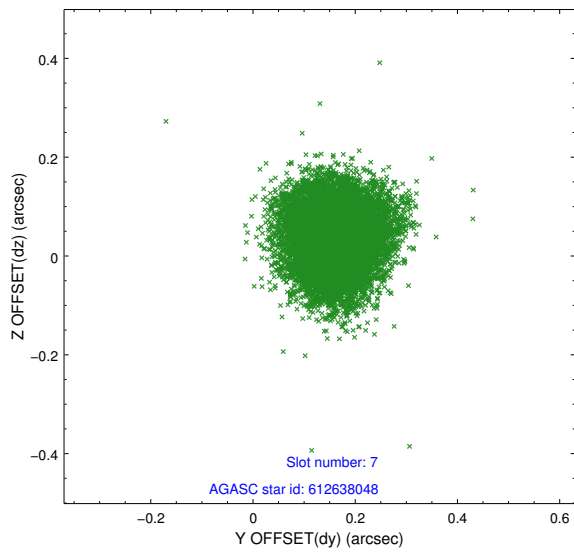
2.4.3 Slot 5



2.4.4 Slot 6

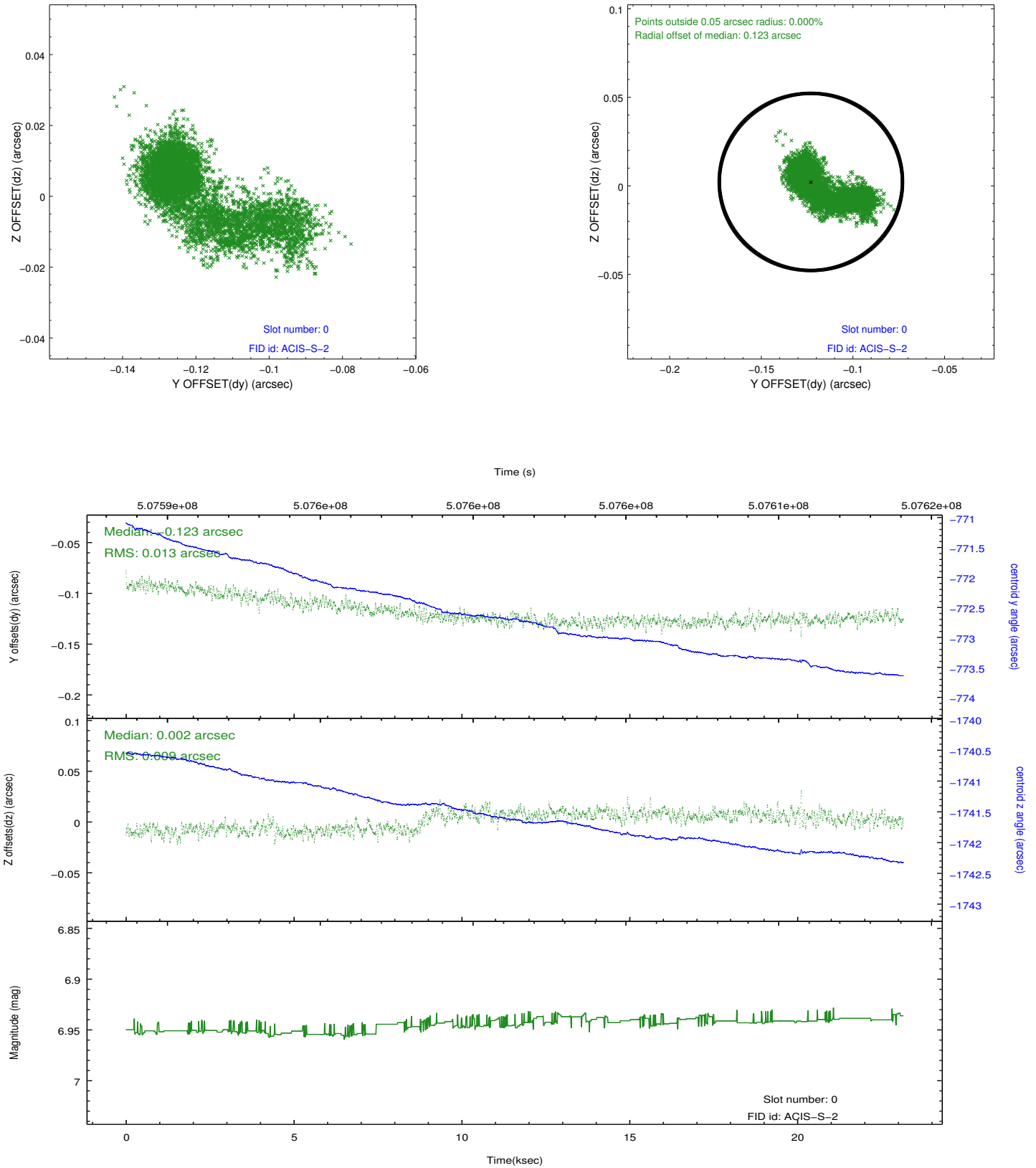


2.4.5 Slot 7

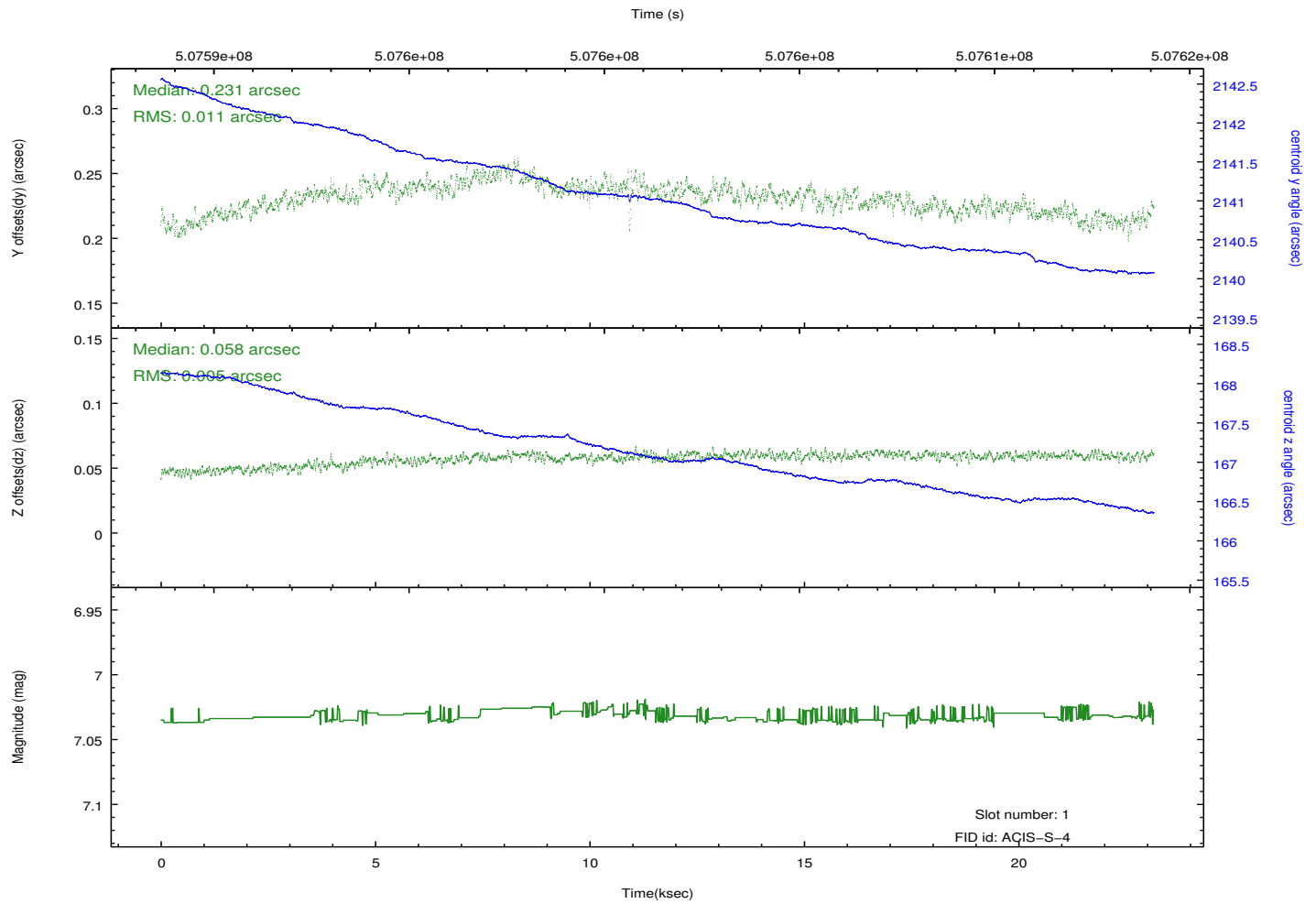
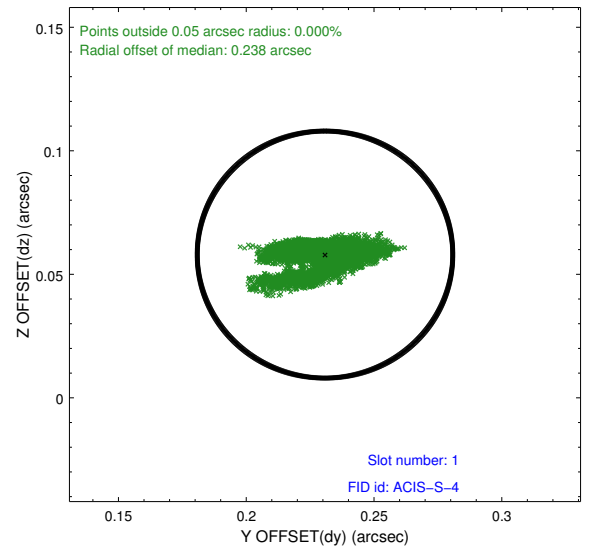
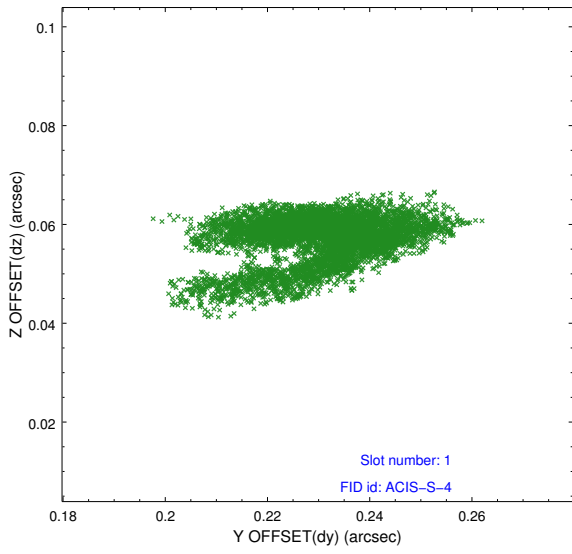


2.5 FID Slots

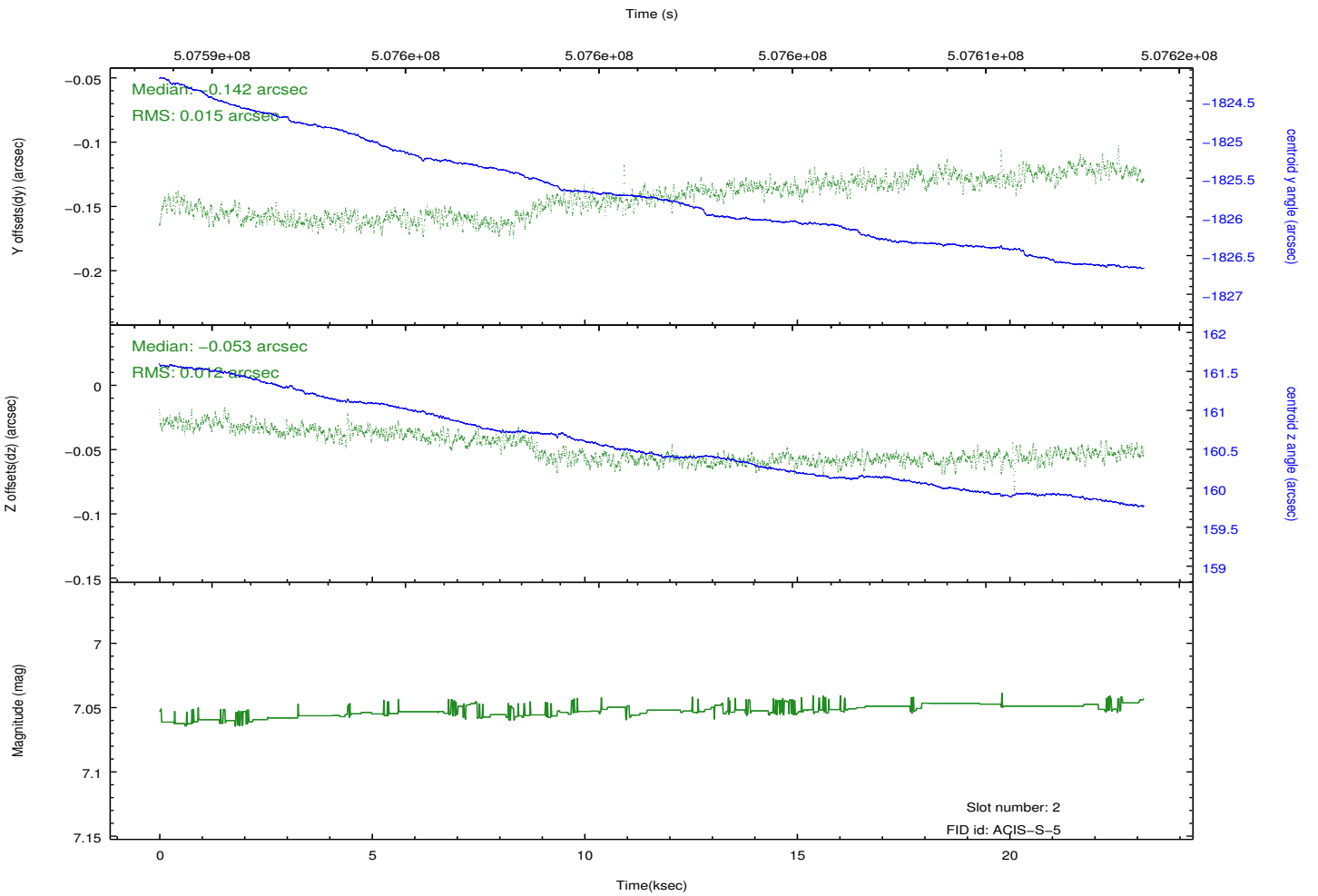
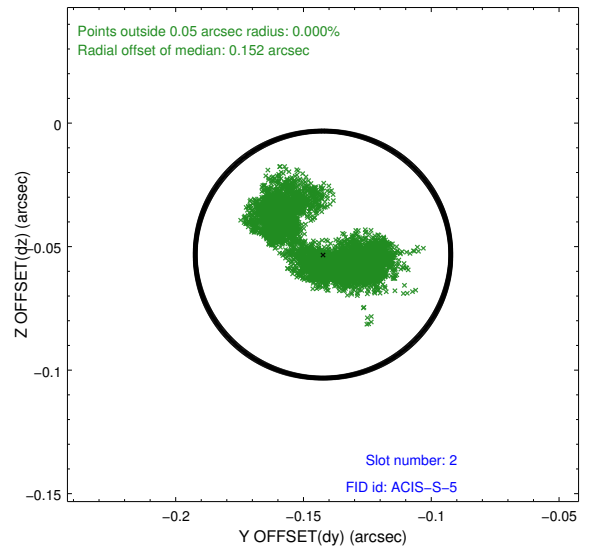
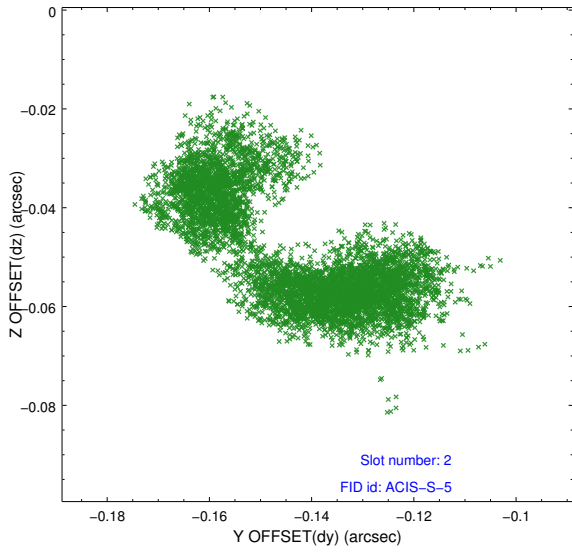
2.5.1 Slot 0



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)	2014.12.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.966399914503

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.