

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 22577 - L2 Version 1
Chandra X-Ray Center

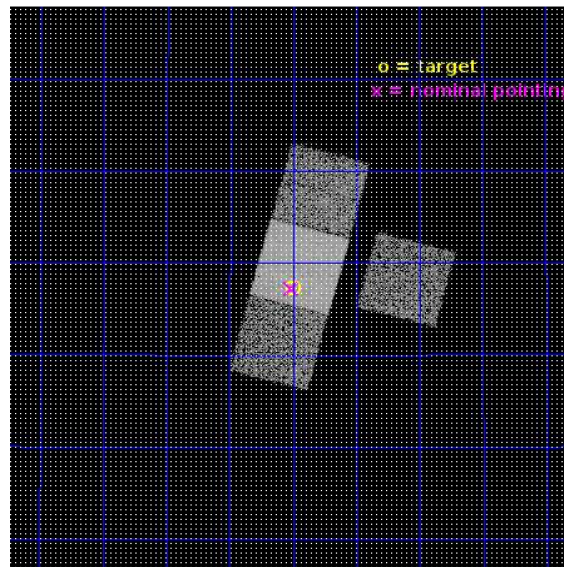
L2 Processing Date : Oct 5 2019

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1 Front

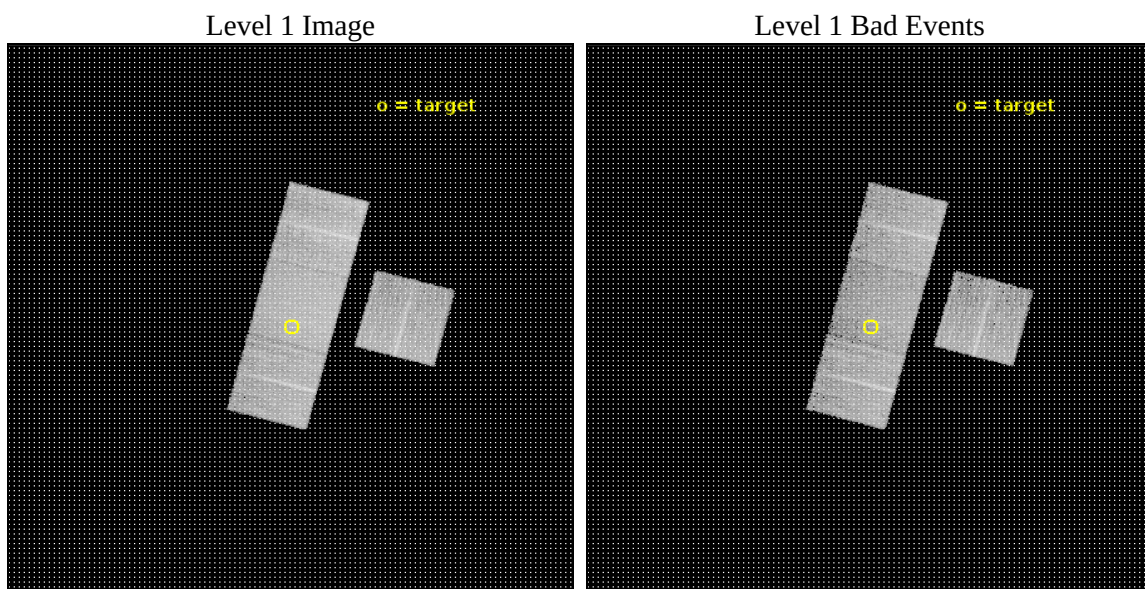
seq_num	703964	Sequence number
obs_id	22577	Observation id
title	Probing Accretion and Obscuration in Merger-Dominated, Luminous Red Quasars	Proposal title
observer	Eilat Glikman	Principal investigator
object	F2M1715+2807	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	258.999167	Observer's specified target RA [deg]
dec_targ	28.121333	Observer's specified target Dec [deg]
ra_nom	259.00345198549	Nominal RA [deg]
dec_nom	28.120619332656	Nominal Dec [deg]
roll_nom	284.9146903188	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9064.4000698328	Sum of GTIs [s]
livetime	8945.9670098062	Livetime [s]
ontime3	9064.4000698328	Sum of GTIs [s]
ontime6	9061.2590596676	Sum of GTIs [s]
ontime7	9064.4000698328	Sum of GTIs [s]
ontime8	9064.4000698328	Sum of GTIs [s]
l2events	58030	Number of level 2 events



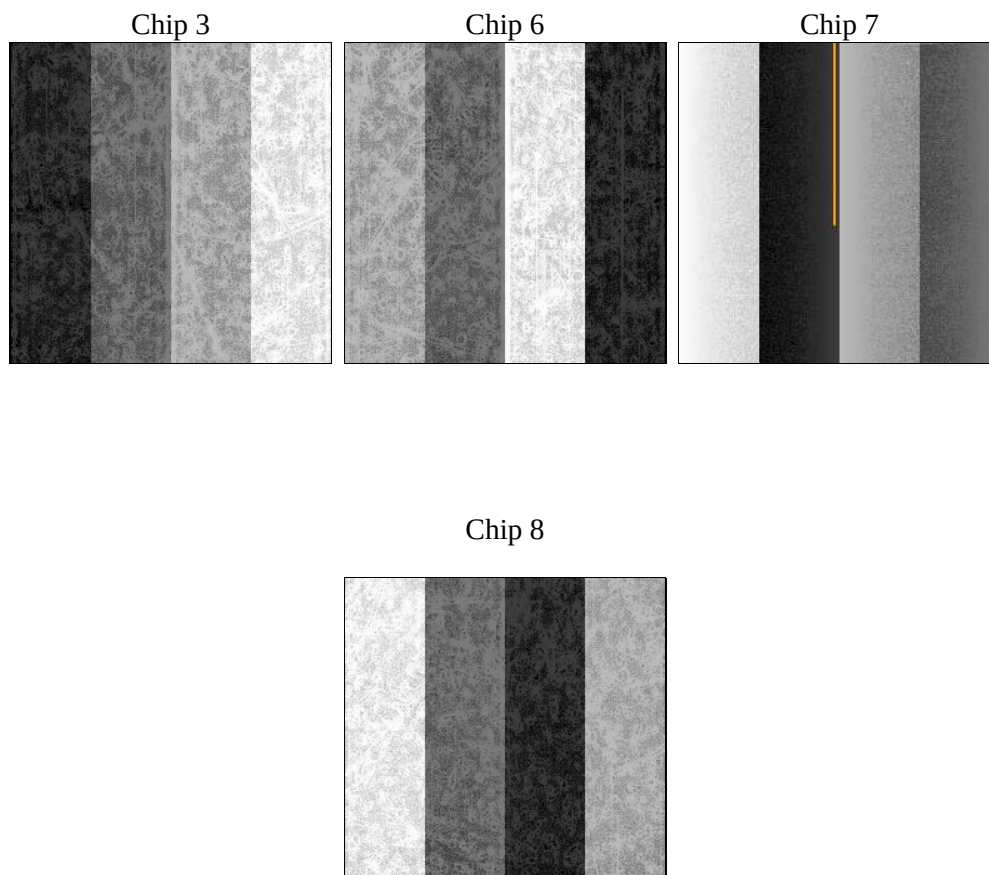
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	9064.4000698328	Sum of GTIs [s]
caldsver	4.8.4.2	 	ontime3	9064.4000698328	Sum of GTIs [s]
date	2019-10-06T00:15:08	Date and time of file creation	ontime6	9061.2590596676	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	9064.4000698328	Sum of GTIs [s]
			ontime8	9064.4000698328	Sum of GTIs [s]
			l1events	323058	Number of level 1 events

2.1.4 Events

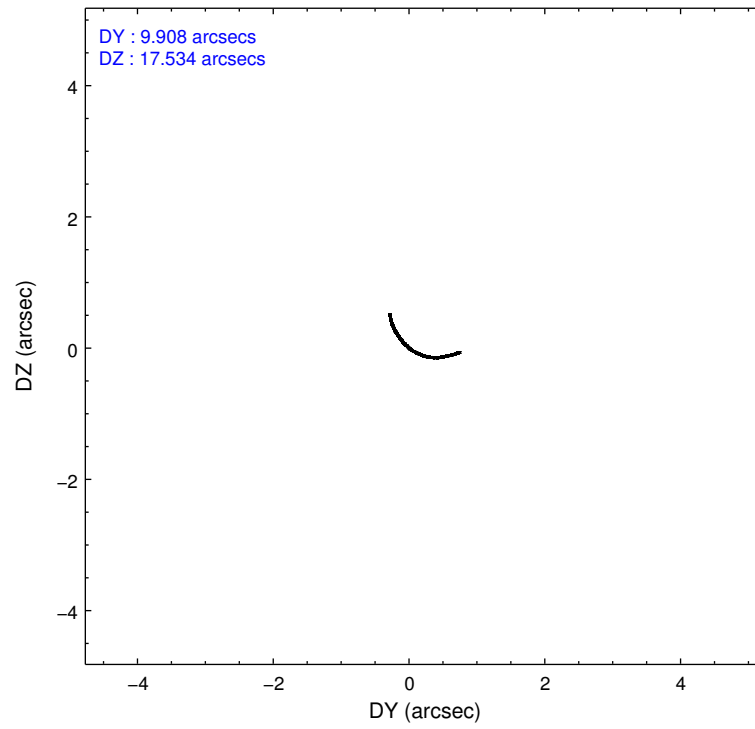
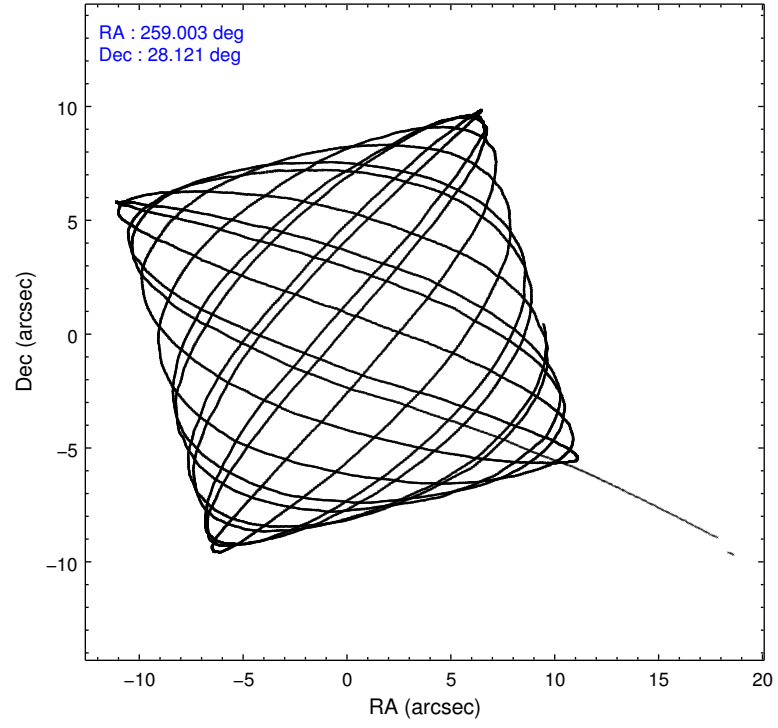
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	67954	75002	89714	90388
rejected events	61168	67380	51203	67376
rejected %	90%	89%	57%	74%

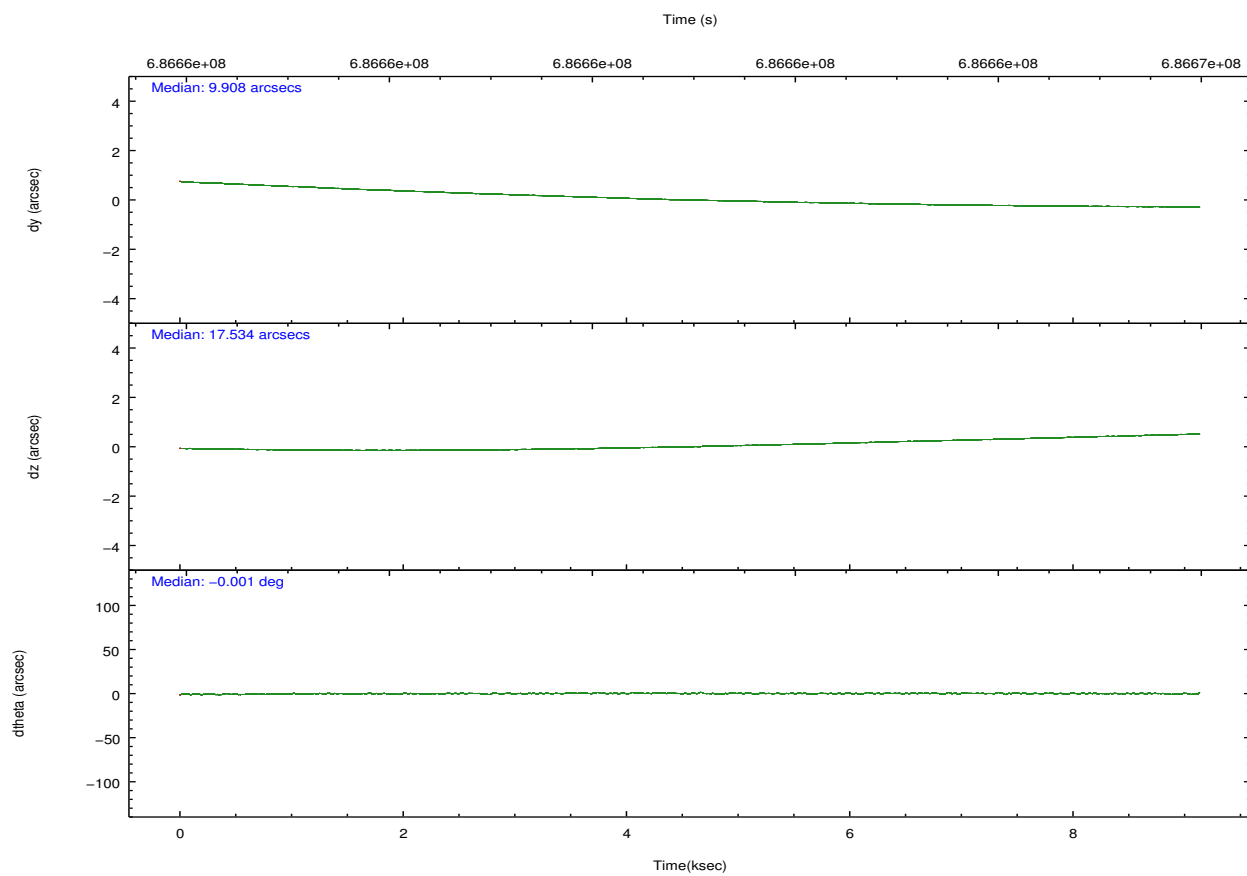
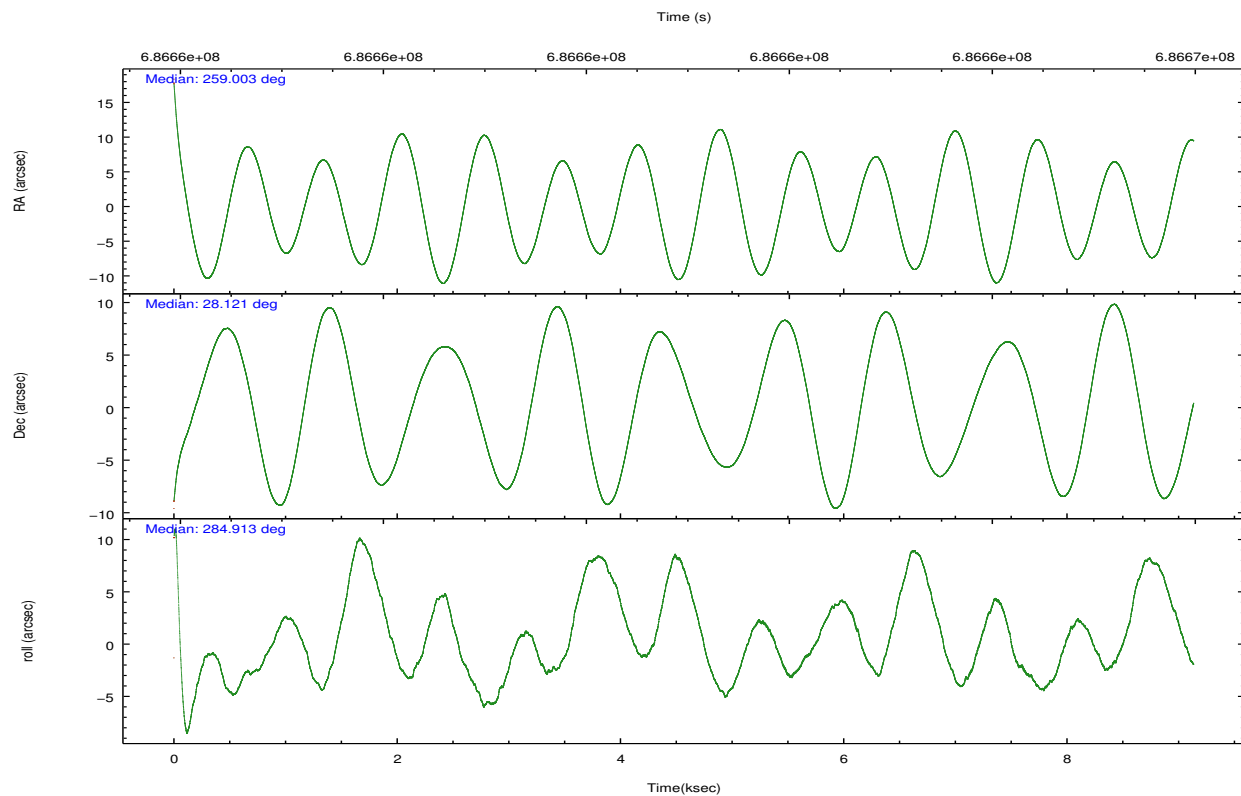
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2342	2079	3231	6260
	3%	2%	3%	6%
grade 1 events	31	26	158	66
	0%	0%	0%	0%
grade 2 events	1436	2264	8110	5565
	2%	3%	9%	6%
grade 3 events	749	573	2885	2303
	1%	0%	3%	2%
grade 4 events	732	599	2949	2260
	1%	0%	3%	2%
grade 5 events	3081	2937	8409	4591
	4%	3%	9%	5%
grade 6 events	1528	2111	21348	6638
	2%	2%	23%	7%
grade 7 events	58055	64413	42624	62705
	85%	85%	47%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	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	258.981189	259.0034519854935	CCD I2 on	N	N
[deg] Pointing Dec	28.139829	28.12061933265585	CCD I3 on	O1	Y
[deg] Pointing Roll	284.768527	284.9146903187951	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O3	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	O2	Y
[s] Observation start time (MET)	686656530.184000	686655303.74888	CCD S5 on	N	N
Observation start date	2019-10-05T09:54:21	2019-10-05T09:35:03	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	686665530.184000	686666755.56207	On-chip summing requested	N	N
Observation end date	2019-10-05T12:24:21	2019-10-05T12:45:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



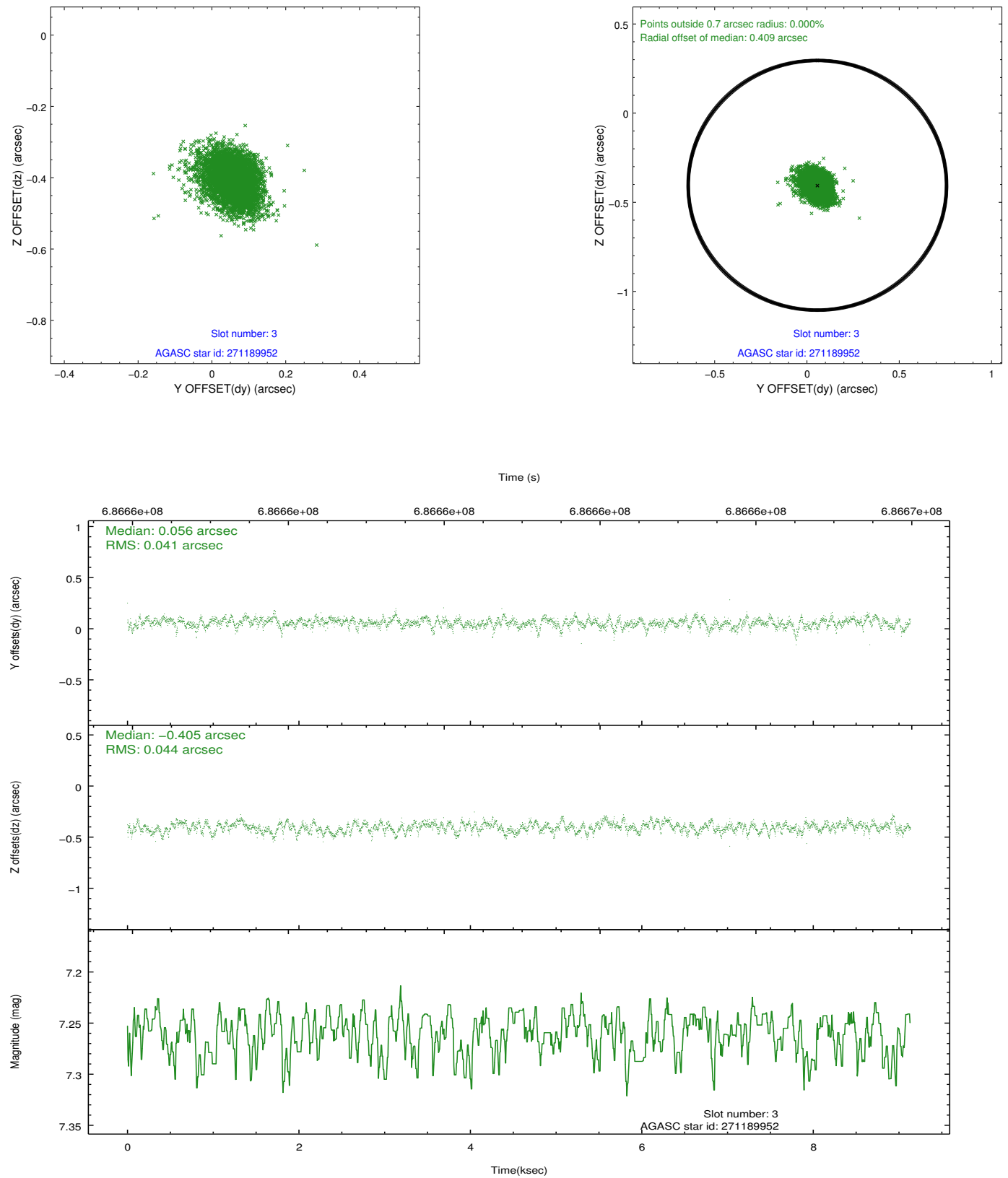


Slot Statistics

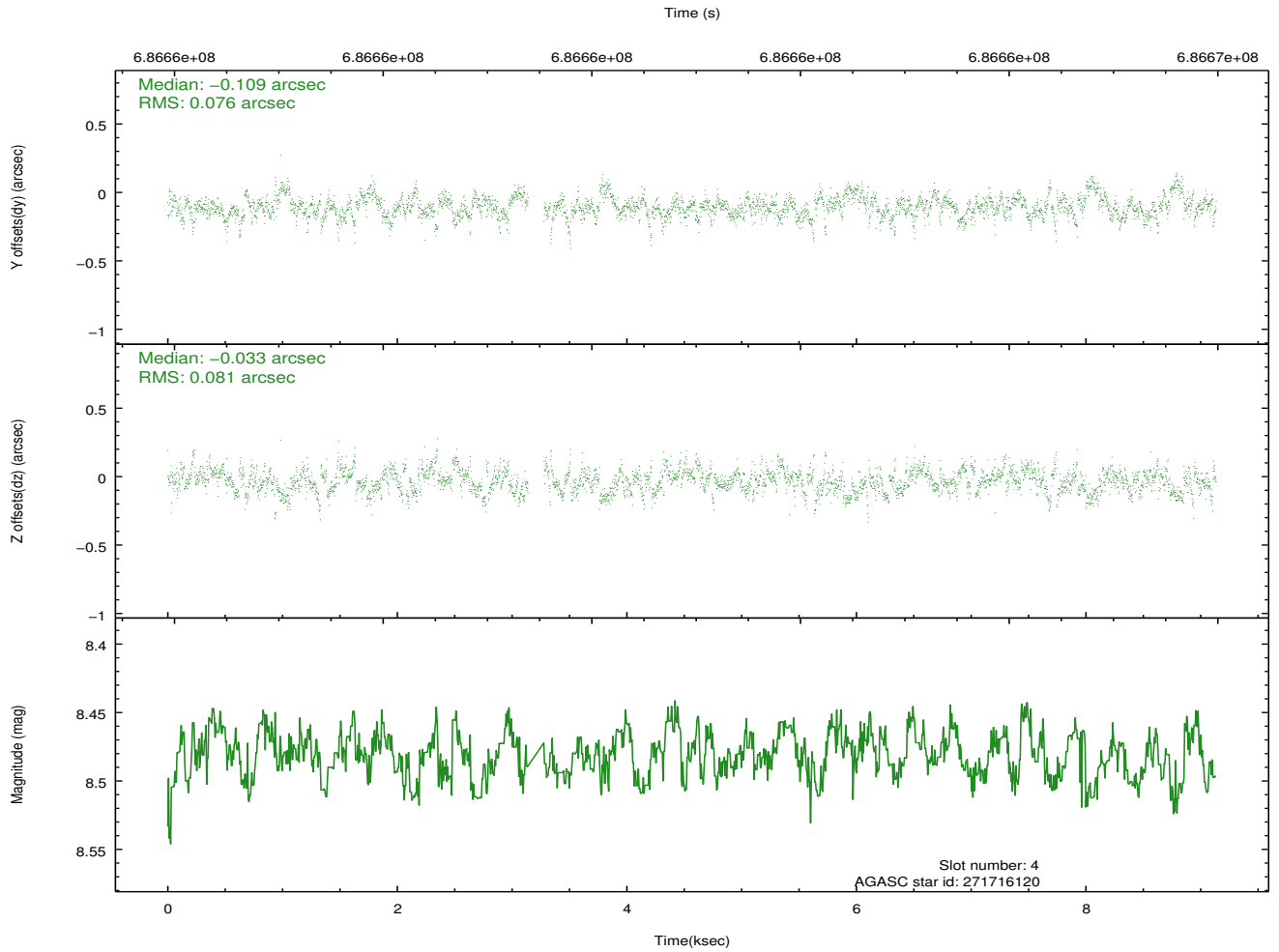
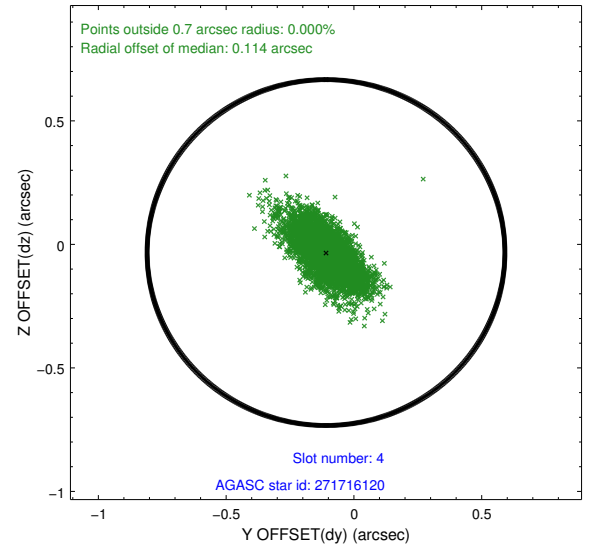
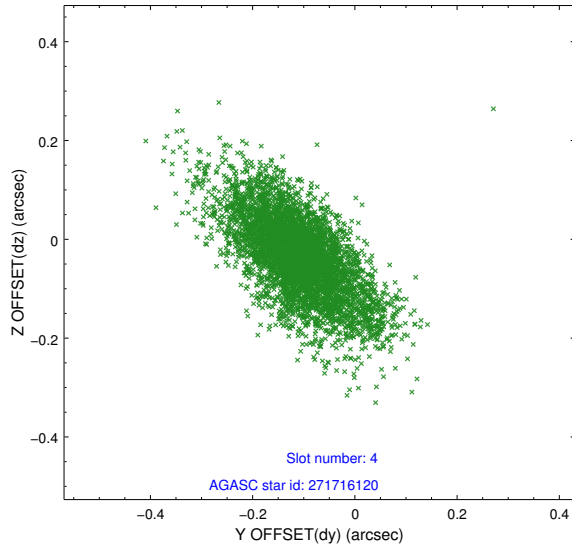
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.09	2229	1.000	-0.415	-0.278	0.006	0.011	0.000000	0.000000	-763.32	-1739
1	FID		ACIS-S-4	7.22	2229	1.000	0.444	0.246	0.008	0.013	0.000000	0.000000	2150.64	168
2	FID		ACIS-S-6	7.36	2229	1.000	-0.056	0.039	0.008	0.014	0.000000	0.000000	399.91	806
3	GUIDE	used	271189952	7.26	4456	1.000	0.056	-0.405	0.063	0.106	259.136686	27.683227	1715.60	60
4	GUIDE	used	271716120	8.48	4389	1.000	-0.109	-0.033	0.111	0.205	259.450476	28.733435	-1691.30	1978
5	GUIDE	used	271721768	8.85	4451	1.000	0.567	0.592	0.113	0.184	258.191456	28.597904	-2238.39	-1990
6	GUIDE	used	271727264	7.76	4454	1.000	-0.207	0.202	0.132	0.267	259.481365	28.906348	-2270.22	2228
7	GUIDE	used	273419232	7.84	4452	1.000	-0.302	-0.352	0.104	0.164	259.649336	28.251345	145.39	2153

2.4 Star Slots

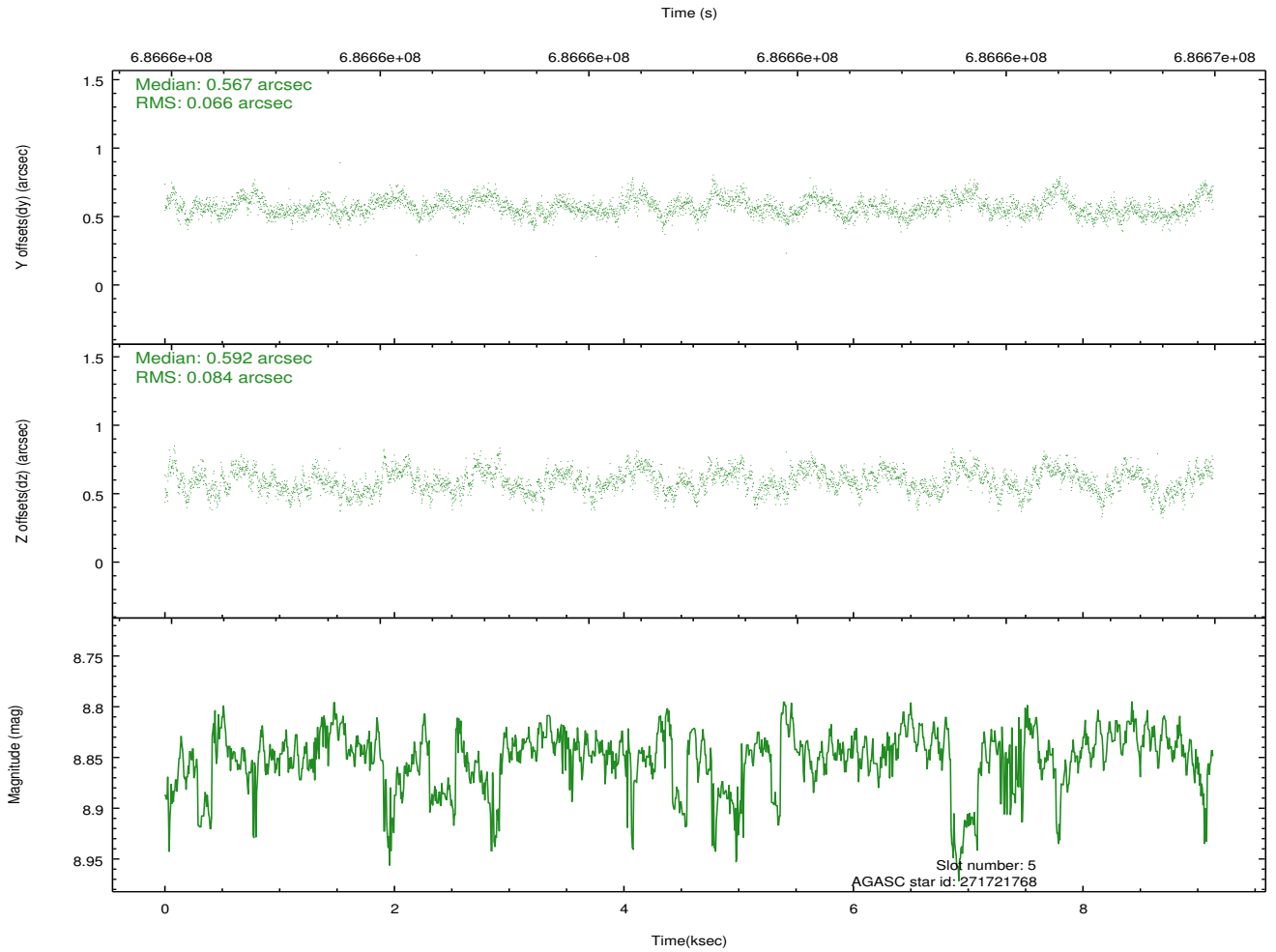
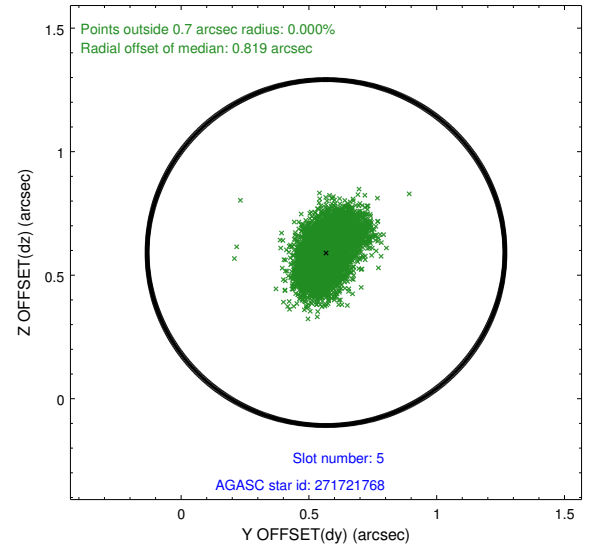
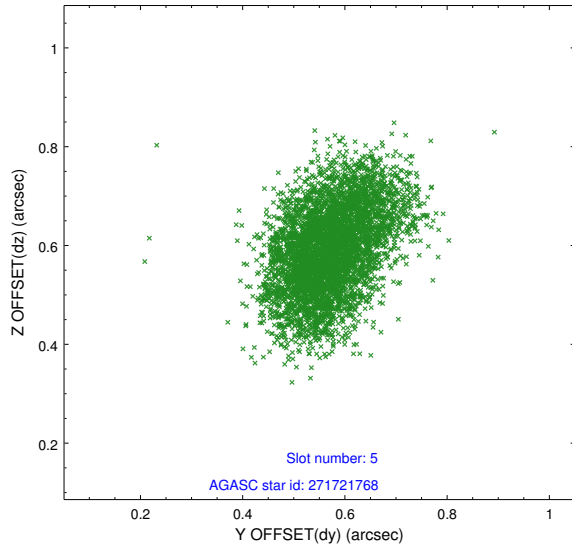
2.4.1 Slot 3



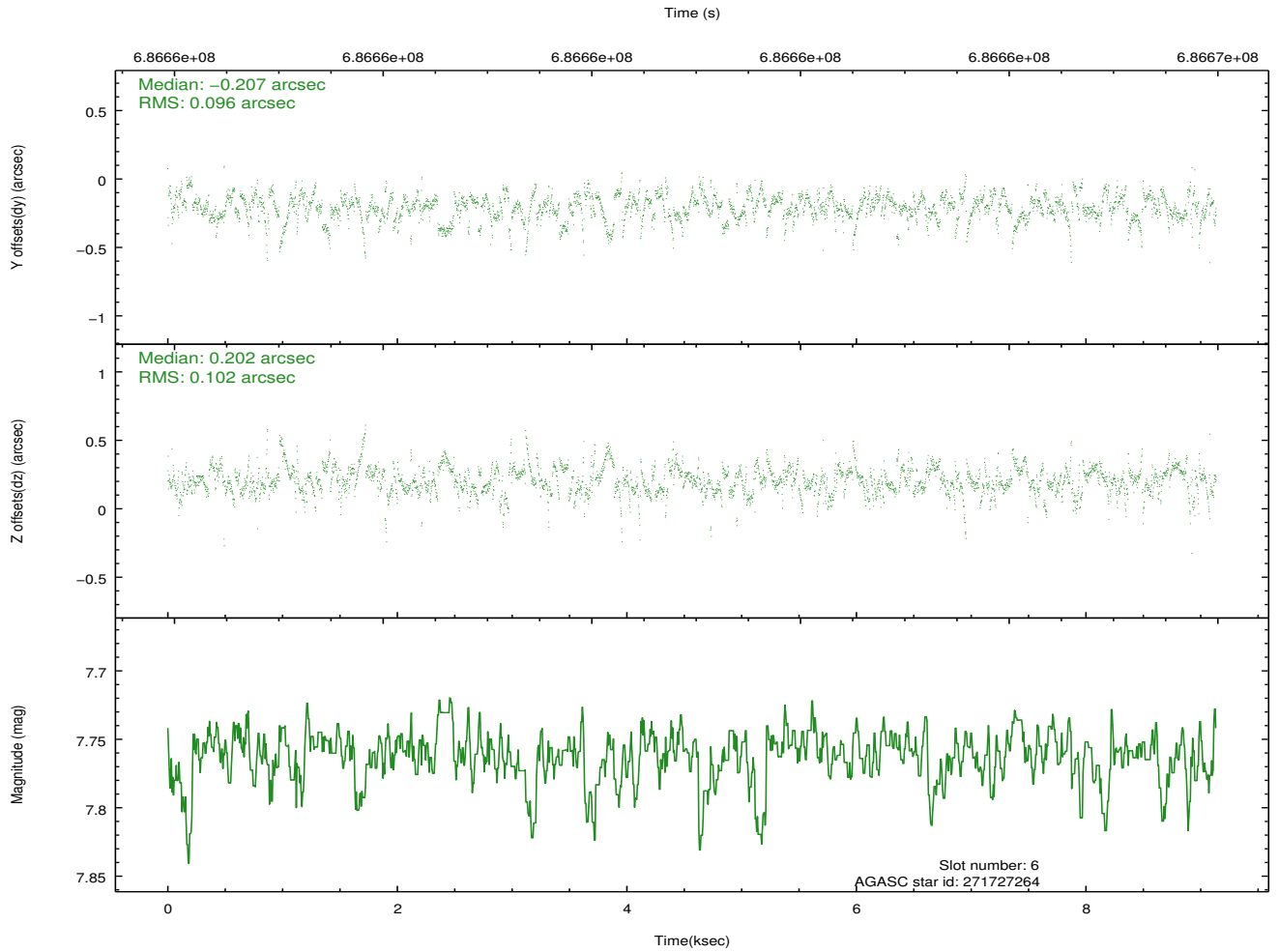
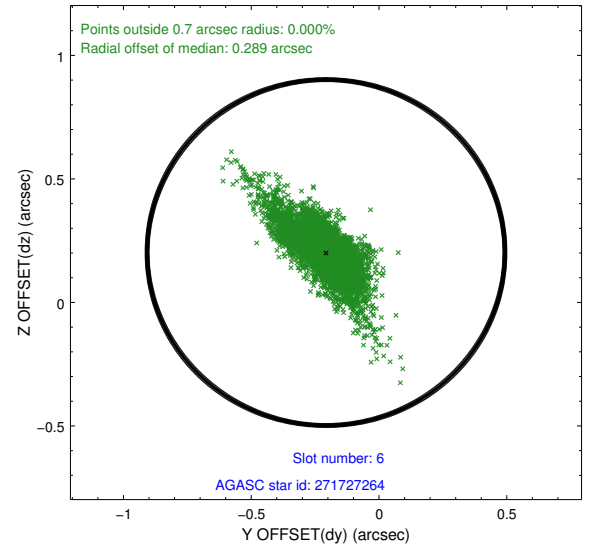
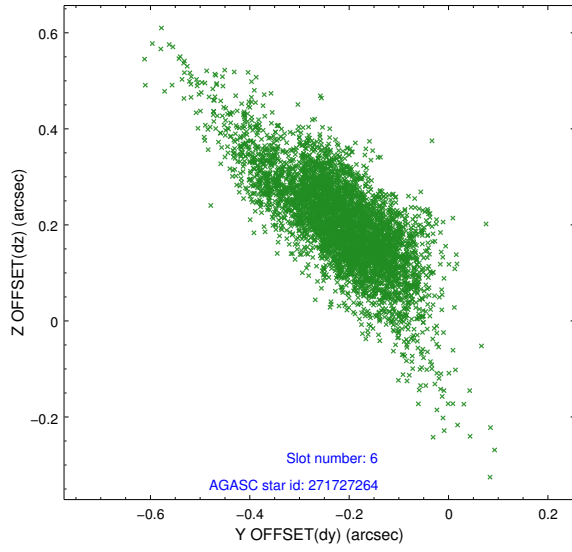
2.4.2 Slot 4



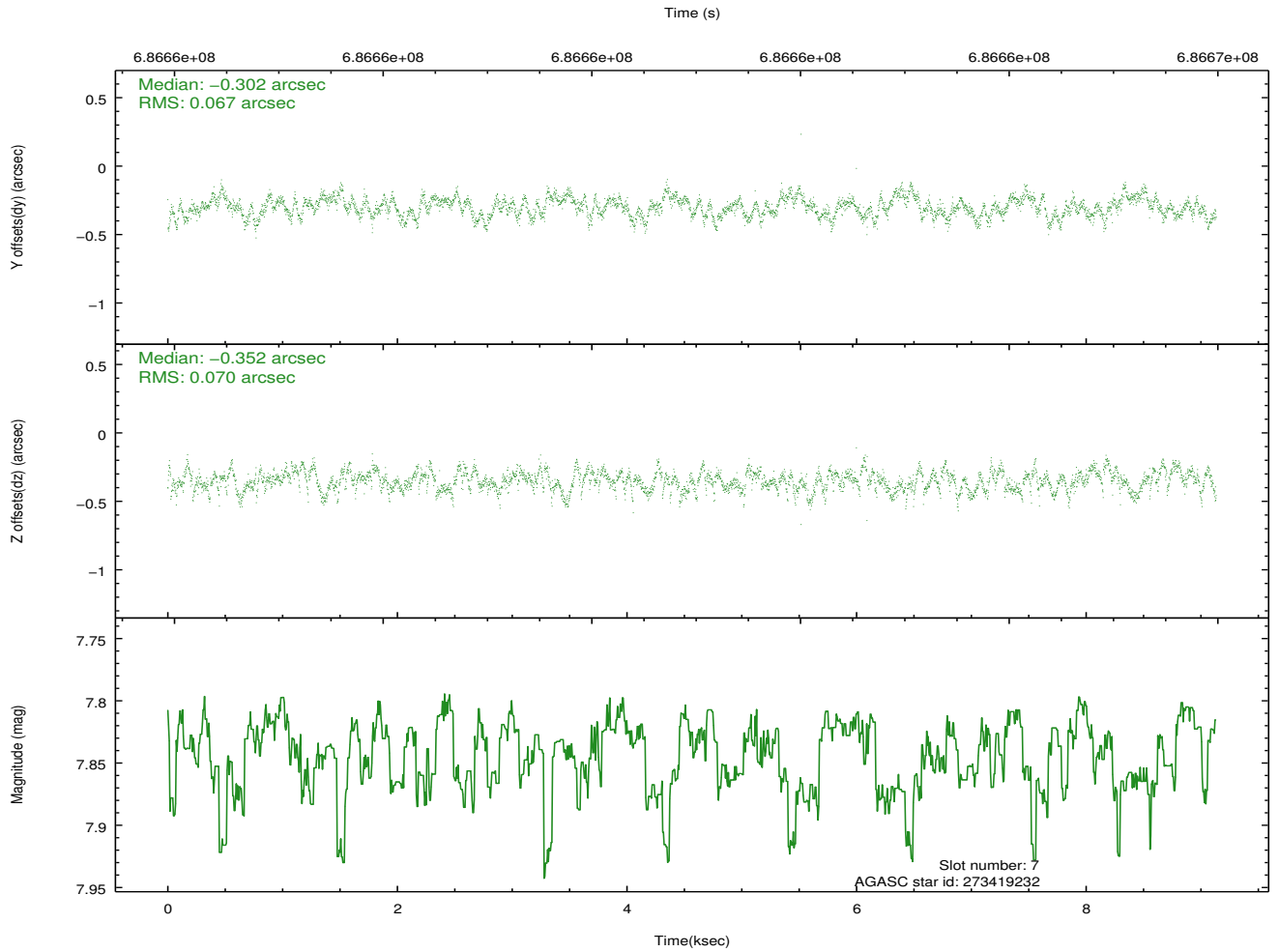
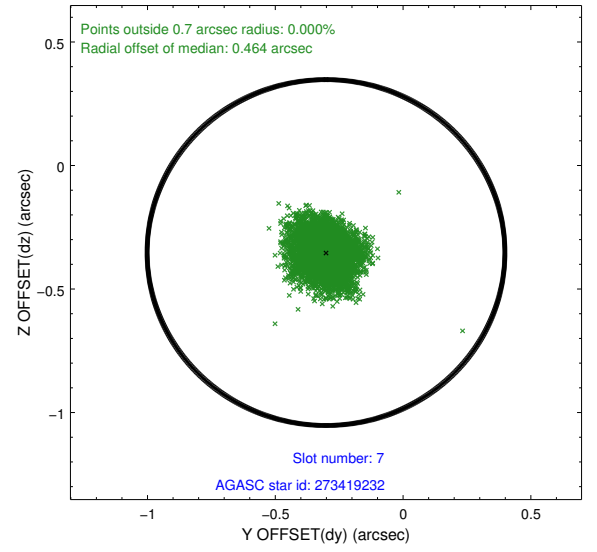
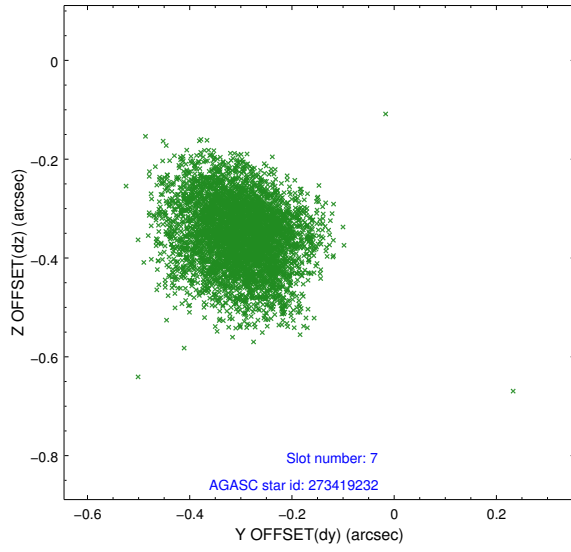
2.4.3 Slot 5



2.4.4 Slot 6

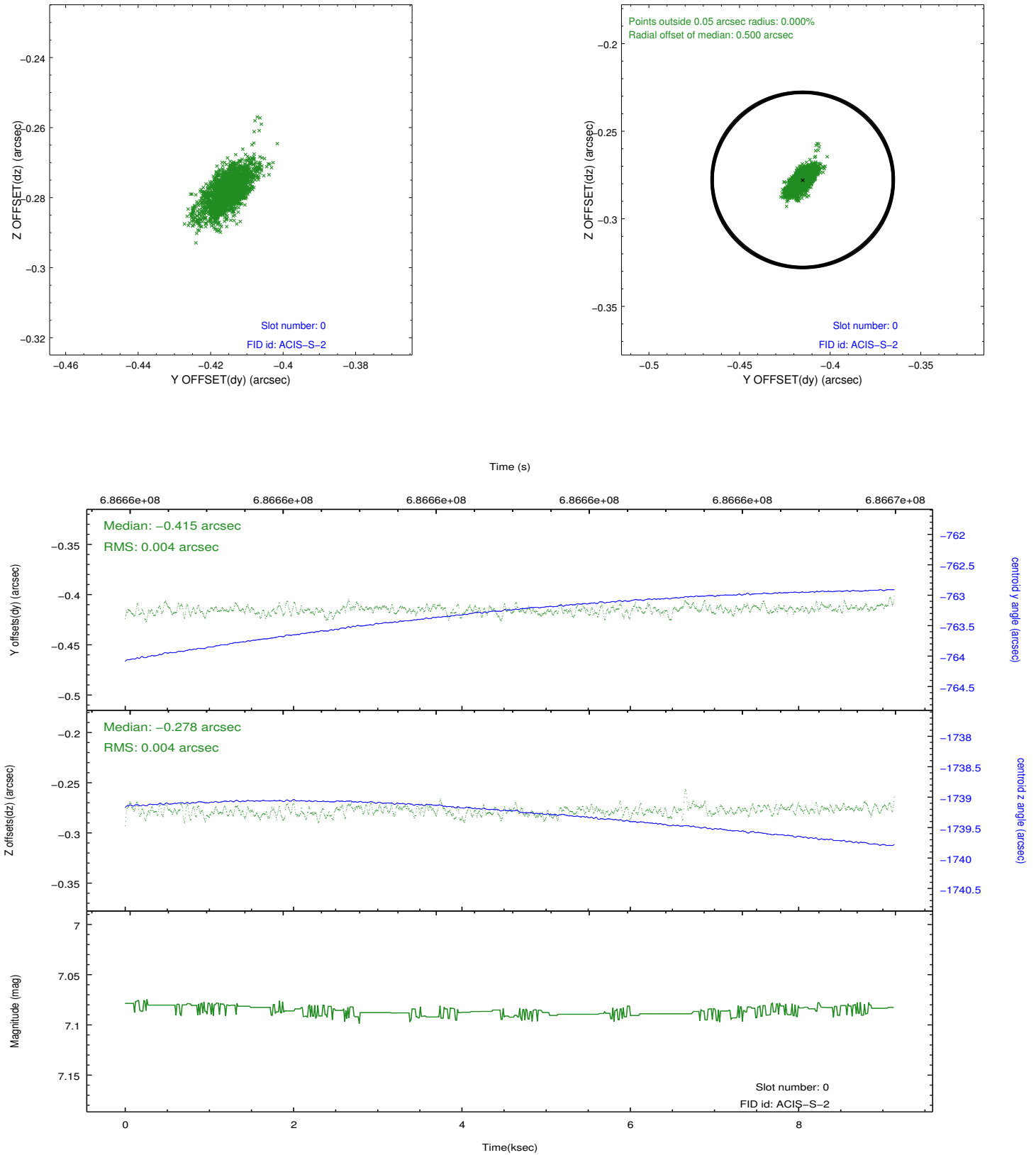


2.4.5 Slot 7

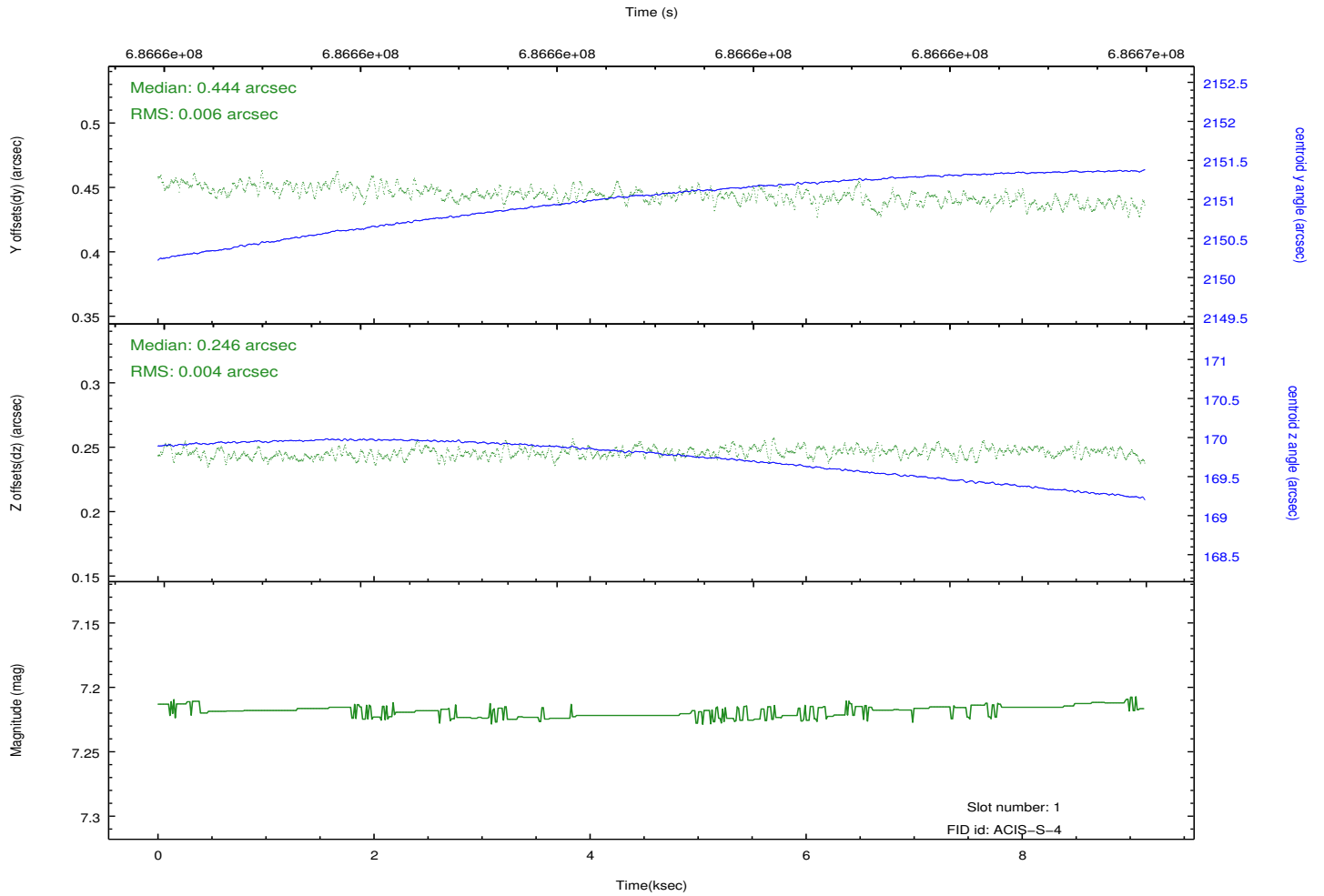
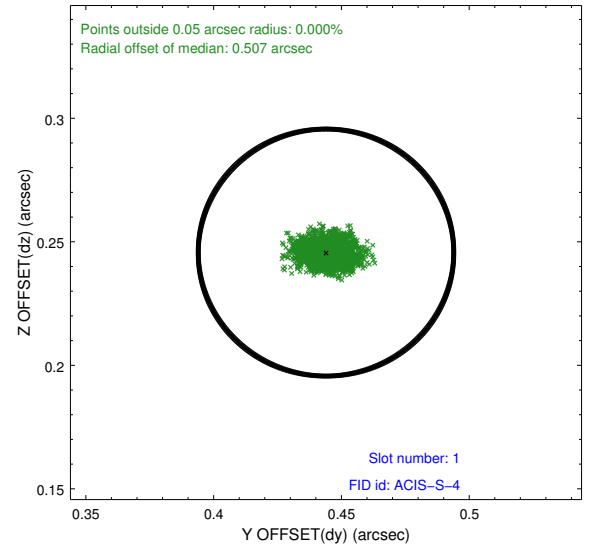
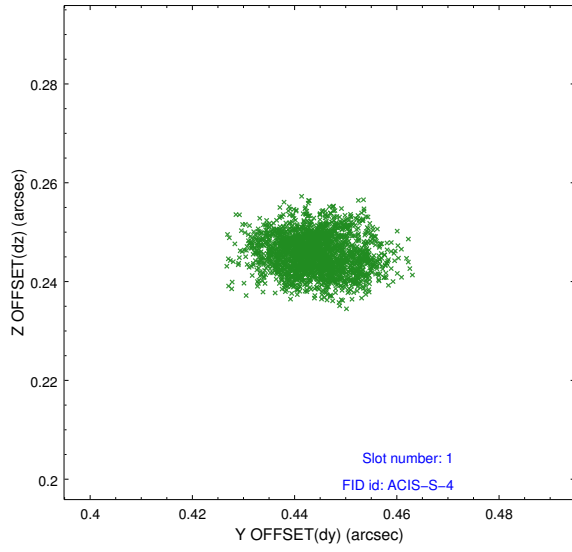


2.5 FID Slots

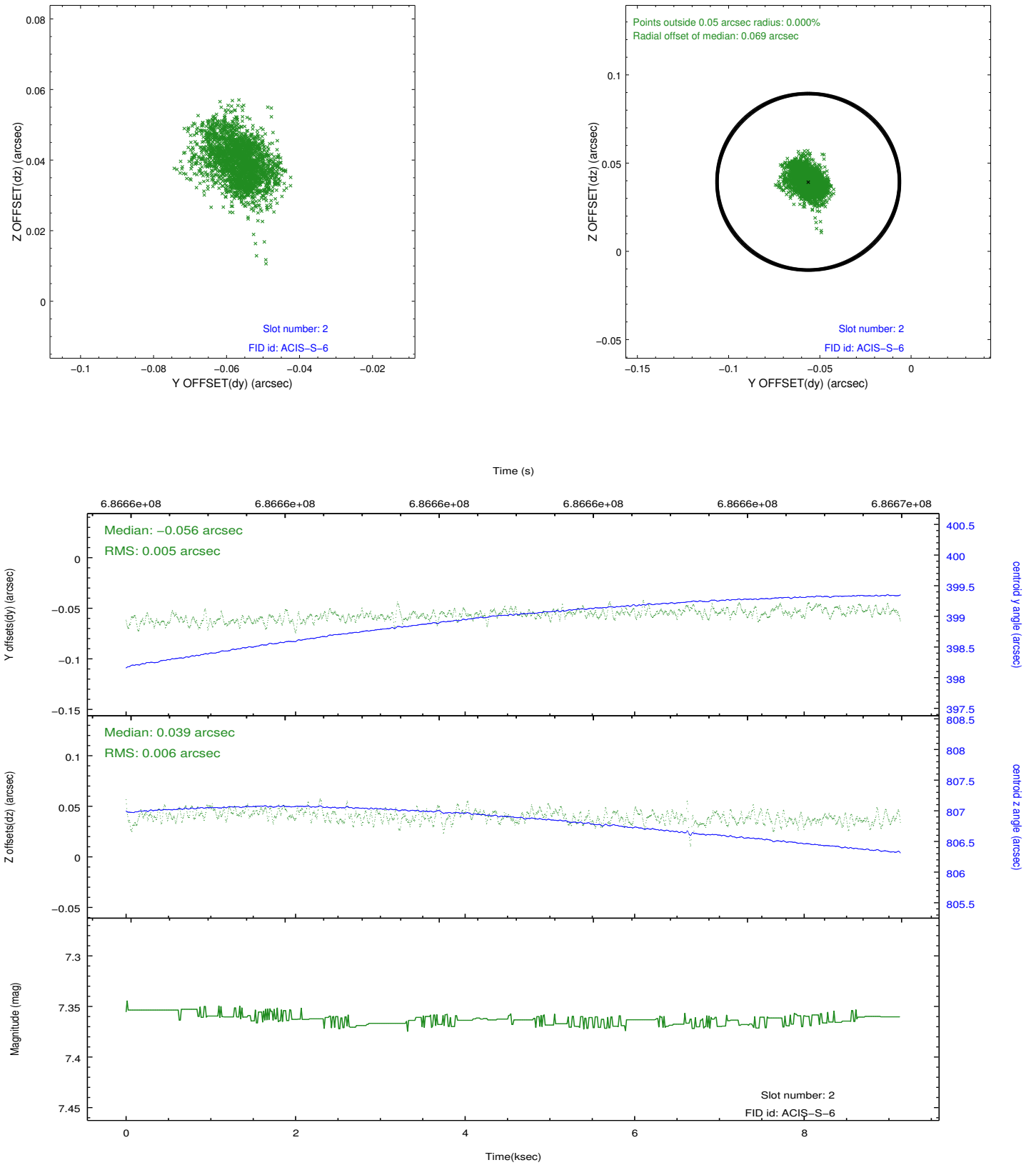
2.5.1 Slot 0



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)	2019.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.0644000698328

A.2 Comments