

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20806 - L2 Version 1
Chandra X-Ray Center

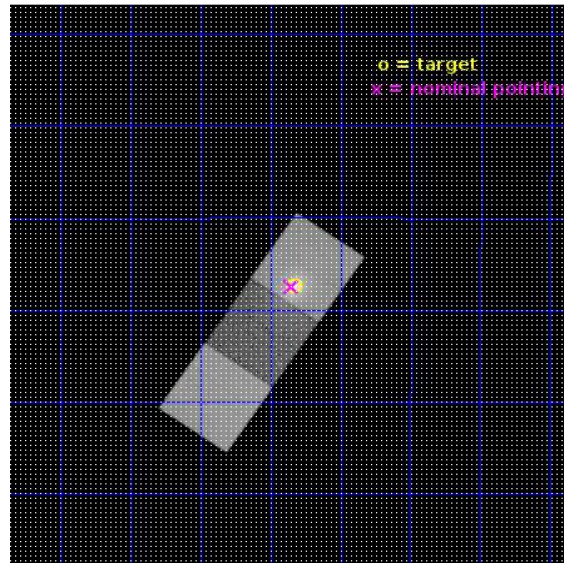
L2 Processing Date : Oct 8 2017

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1 Front

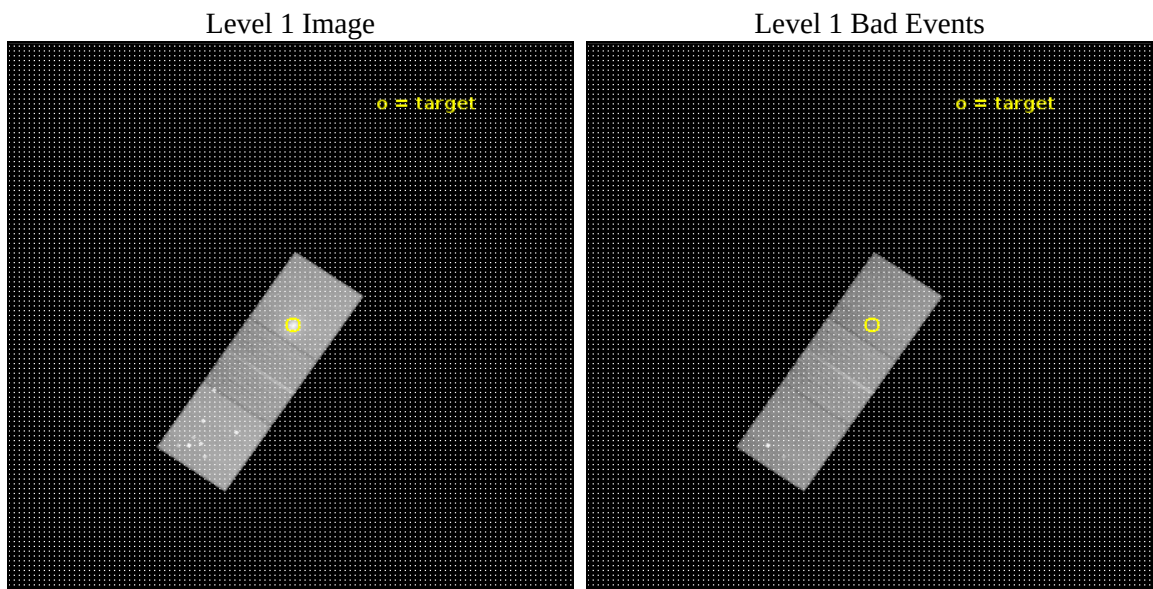
seq_num	801685	Sequence number
obs_id	20806	Observation id
title	The Hot Phase of a Cold Black Hole Fountain: Unifying Chandra with ALMA	Proposal title
observer	Grant Tremblay	Principal investigator
object	Abell 2597	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	351.332208	Observer's specified target RA [deg]
dec_targ	-12.124214	Observer's specified target Dec [deg]
ra_nom	351.33762177858	Nominal RA [deg]
dec_nom	-12.124705337541	Nominal Dec [deg]
roll_nom	304.15778491783	Nominal Roll [deg]
revision	1	Processing version of data
ontime	38114.500293255	Sum of GTIs [s]
livetime	37616.506287437	Livetime [s]
ontime5	38114.500293255	Sum of GTIs [s]
ontime6	38114.500293255	Sum of GTIs [s]
ontime7	38114.500293255	Sum of GTIs [s]
l2events	453790	Number of level 2 events



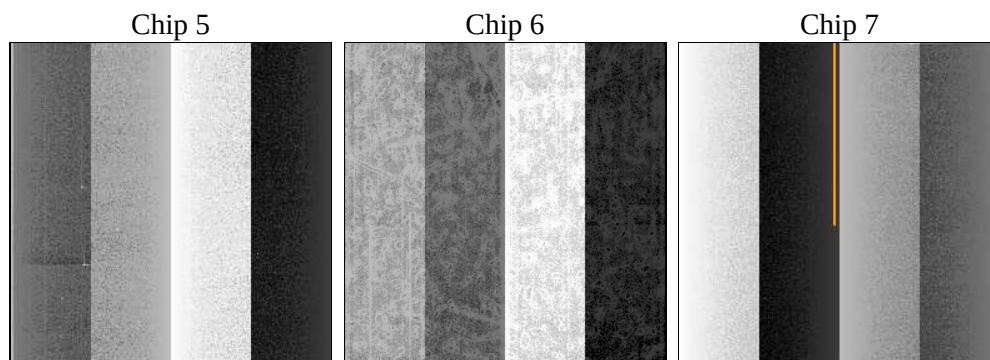
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	38000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	38114.500293255	Sum of GTIs [s]
caldsver	4.7.6	 	ontime5	38114.500293255	Sum of GTIs [s]
date	2017-10-08T22:29:44	Date and time of file creation	ontime6	38114.500293255	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	38114.500293255	Sum of GTIs [s]
			l1events	1135894	Number of level 1 events

2.1.4 Events

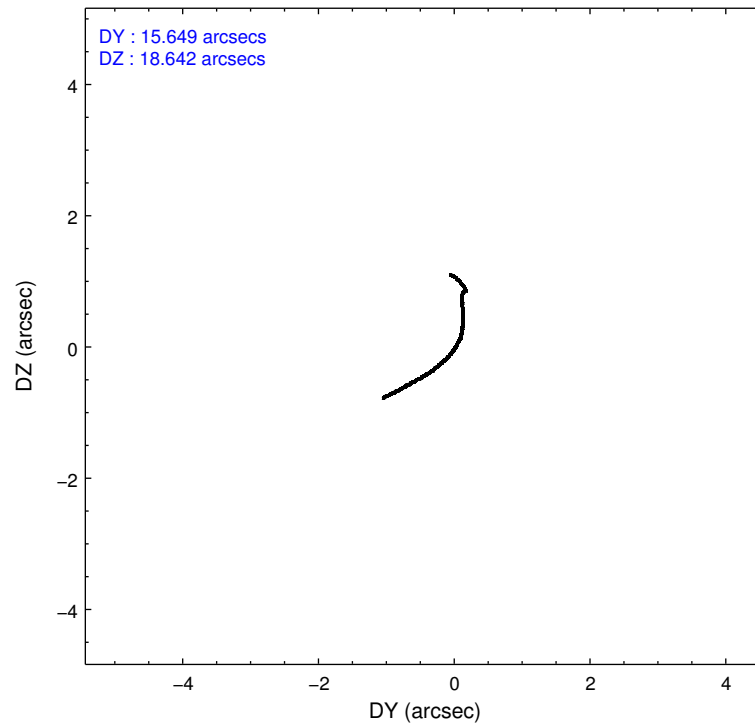
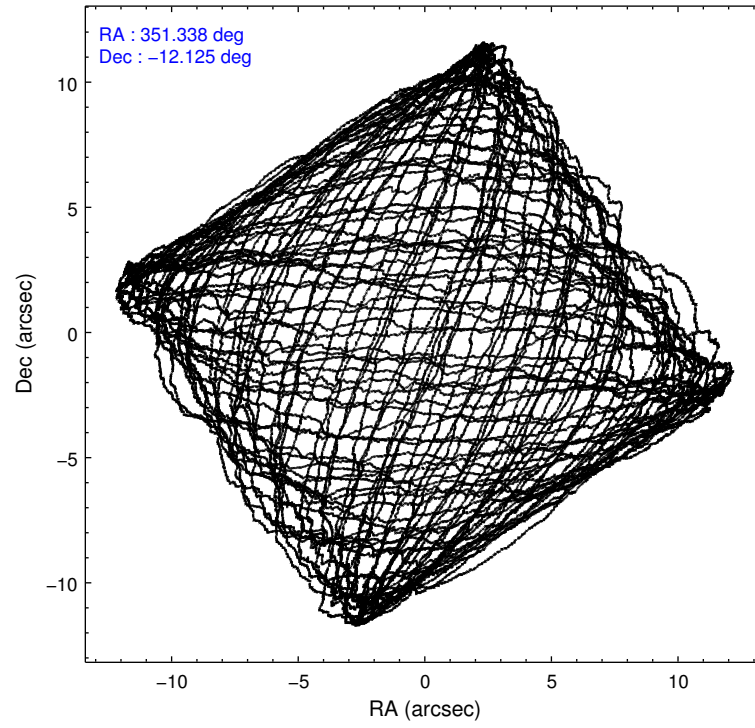
	ccd 5	ccd 6	ccd 7
level 1 events	450010	259031	426853
rejected events	219829	224681	184942
rejected %	48%	86%	43%

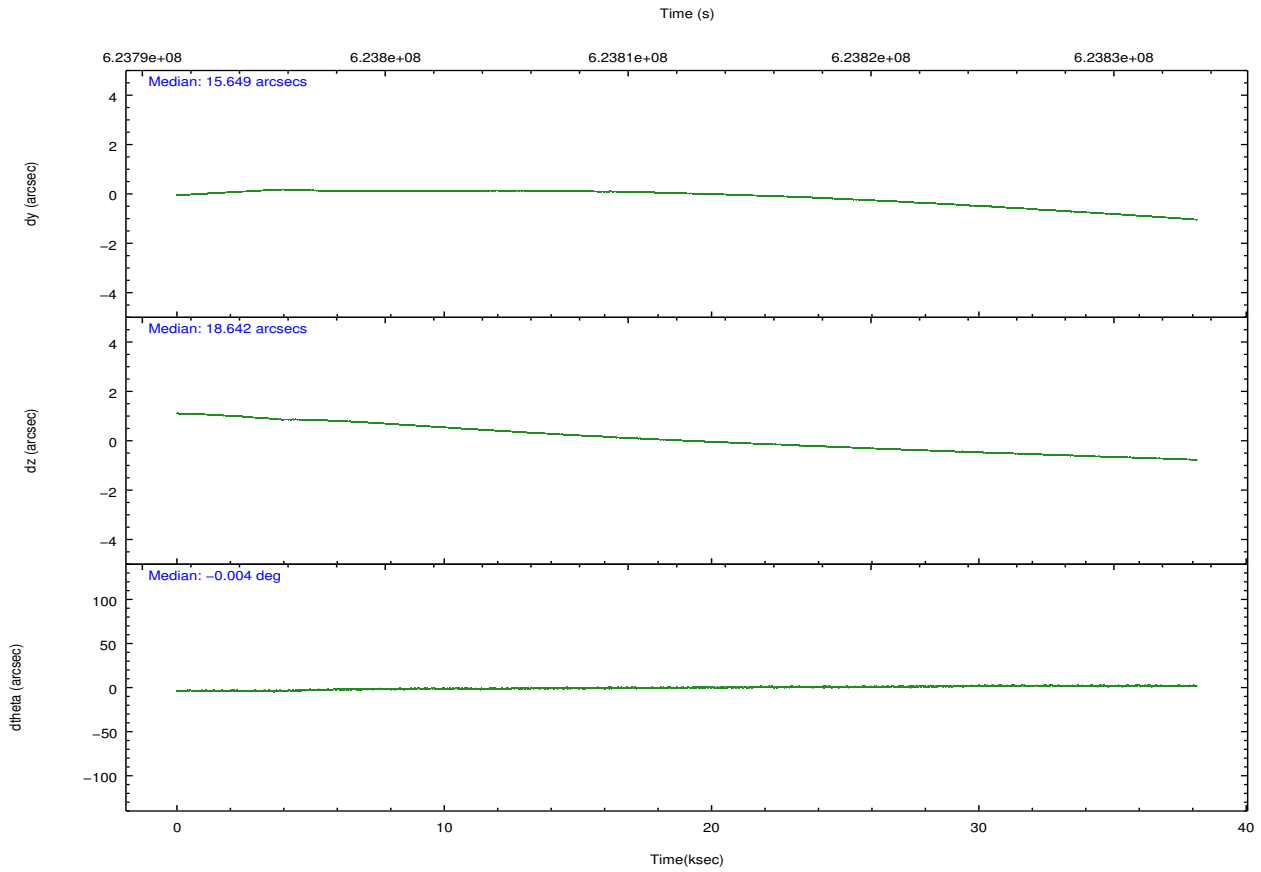
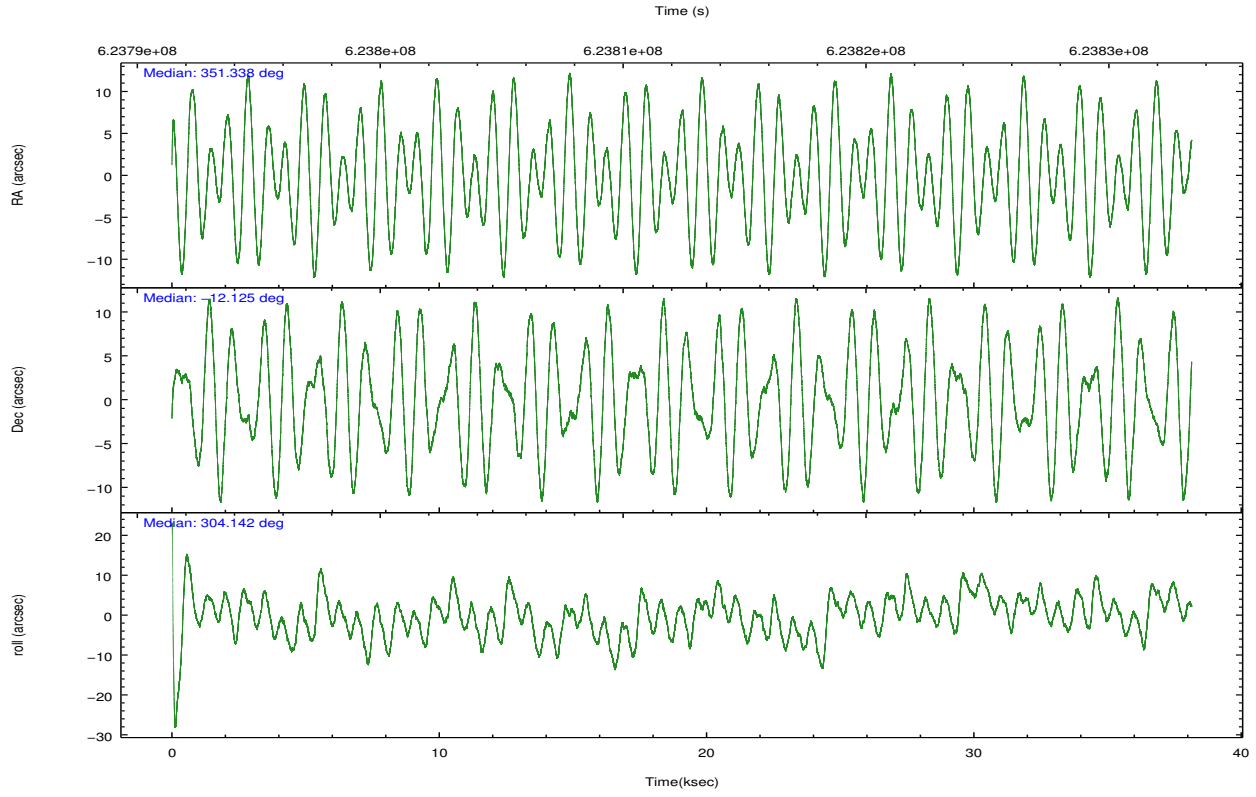
	ccd 5	ccd 6	ccd 7
grade 0 events	38993	13949	38624
	8%	5%	9%
grade 1 events	1093	129	499
	0%	0%	0%
grade 2 events	67726	7368	56732
	15%	2%	13%
grade 3 events	7749	3055	22744
	1%	1%	5%
grade 4 events	8509	2992	22470
	1%	1%	5%
grade 5 events	29352	11886	33626
	6%	4%	7%
grade 6 events	107222	6987	101356
	23%	2%	23%
grade 7 events	189366	212665	150802
	42%	82%	35%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-567	ACIS-567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	351.312199	351.3376217785757	Subarray requested	NONE	NONE
[deg] Pointing Dec	-12.113061	-12.12470533754138	Alternating exposures requested	N	N
[deg] Pointing Roll	303.995797	304.1577849178335	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	623793500.184000	623792357.94515			
Observation start date	2017-10-07T19:57:11	2017-10-07T19:39:17			
[s] Observation end time (MET)	623831500.184000	623832475.4225			
Observation end date	2017-10-08T06:30:31	2017-10-08T06:47:55			
Read mode	TIMED	TIMED			

2.3 Aspect



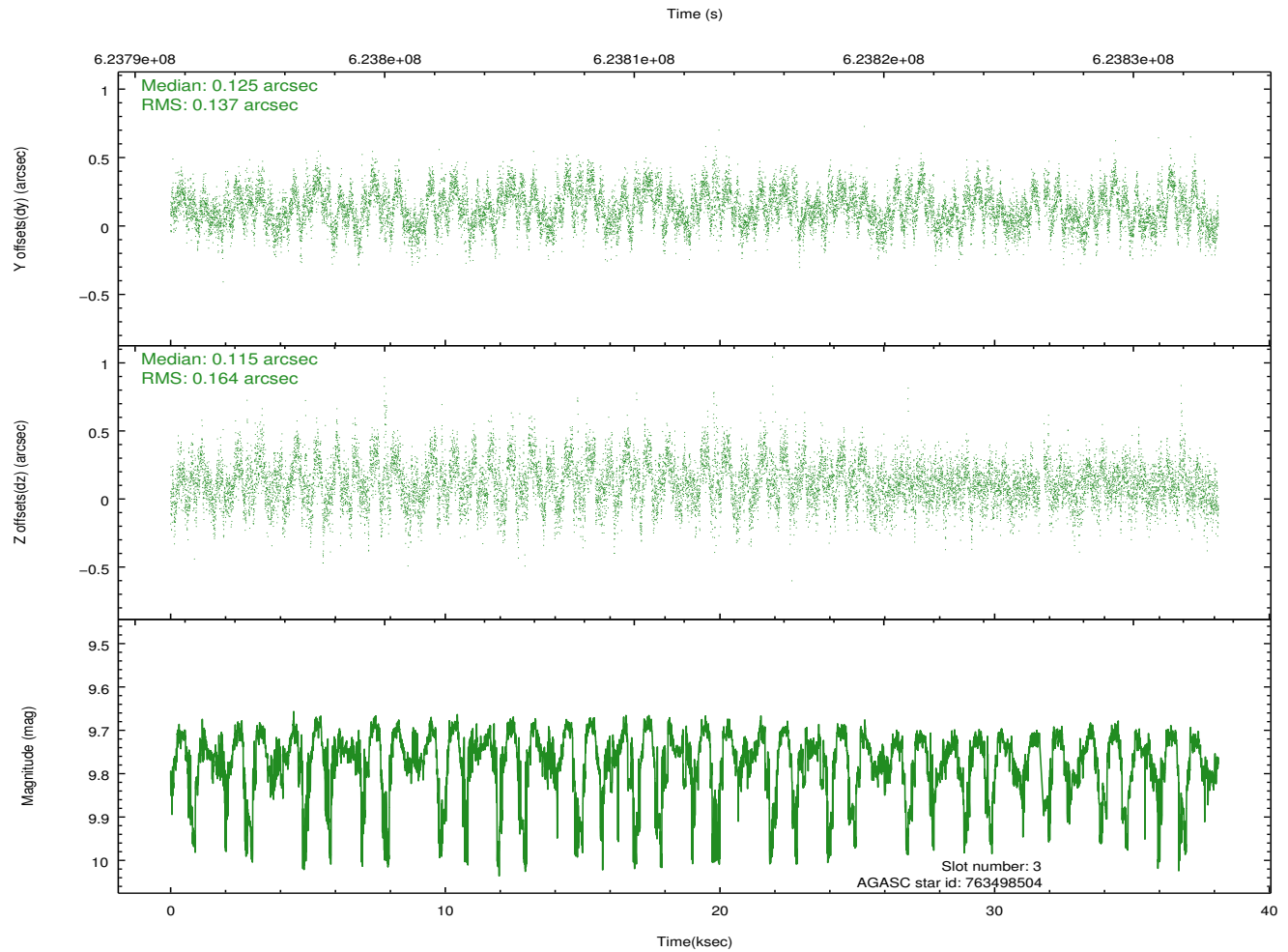
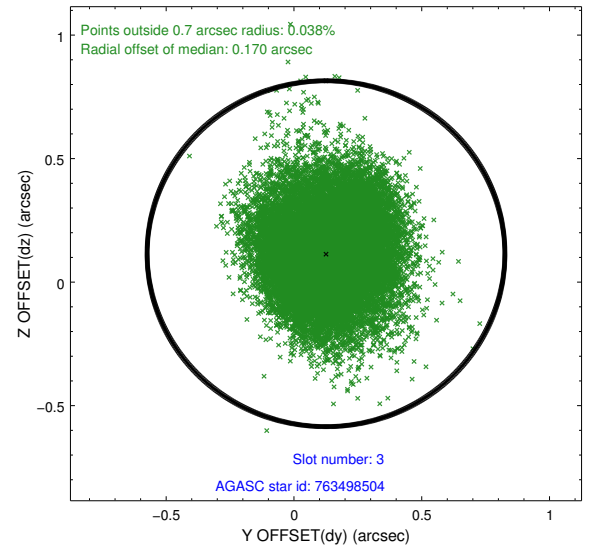
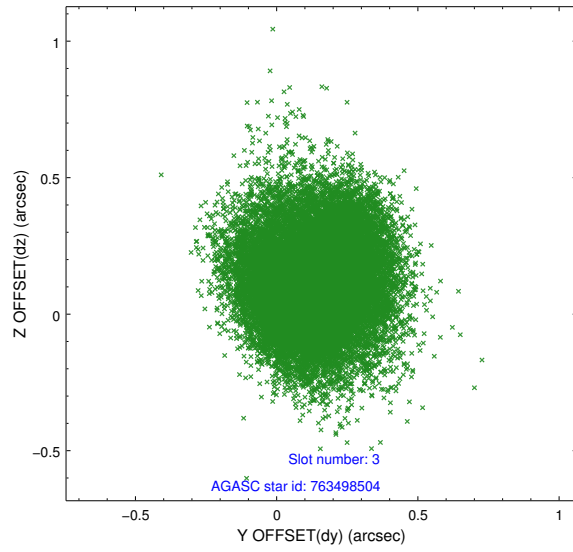


Slot Statistics

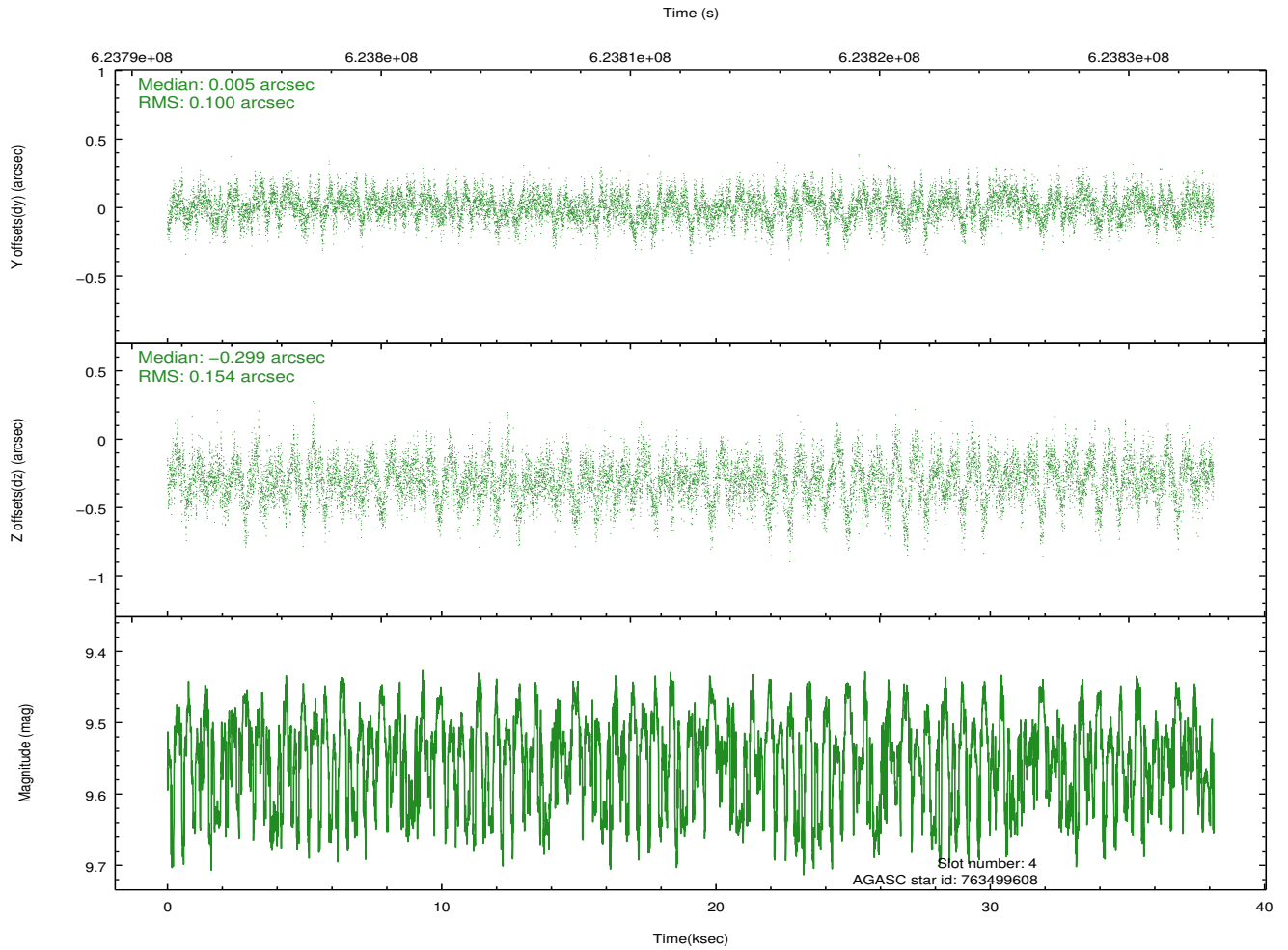
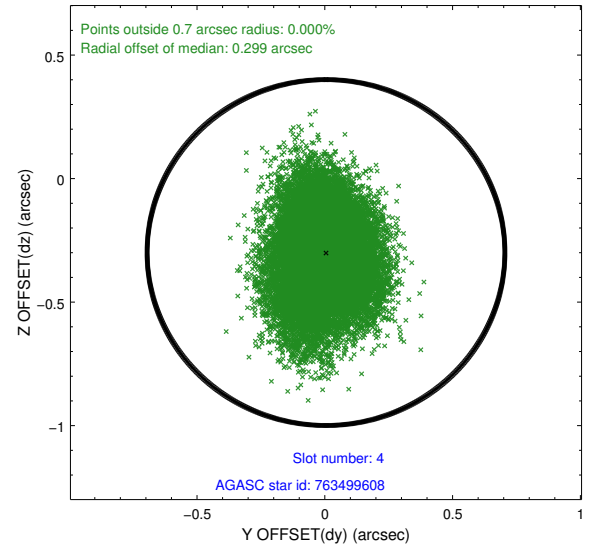
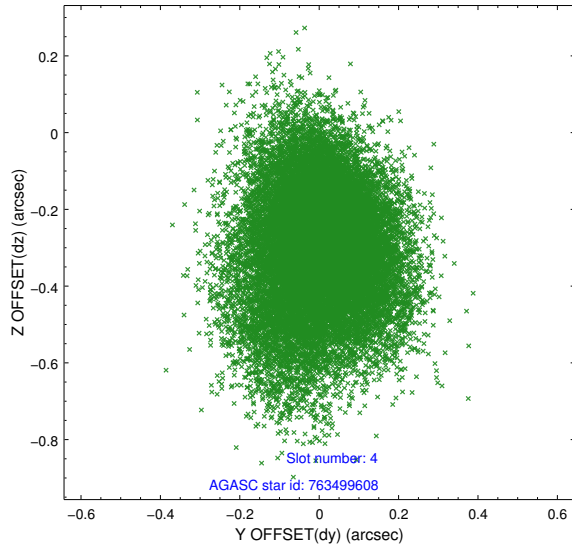
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.99	9304	-0.203	-0.101	0.023	0.034	0.000000	0.000000	-768.66	-1740.31
1	FID		ACIS-S-4	7.10	9305	0.481	0.125	0.006	0.011	0.000000	0.000000	2145.28	168.39
2	FID		ACIS-S-5	7.09	9304	-0.309	-0.016	0.024	0.035	0.000000	0.000000	-1821.59	161.93
3	GUIDE	used	763498504	9.76	18488	0.125	0.115	0.229	0.359	351.252498	-11.852907	-893.19	349.18
4	GUIDE	used	763499608	9.54	18584	0.005	-0.299	0.193	0.324	351.830271	-12.196099	1268.46	1343.32
5	GUIDE	used	763502704	9.78	18516	-0.008	0.190	0.251	0.389	351.449244	-11.609906	-1230.98	1413.83
6	GUIDE	used	763888952	8.97	18585	0.002	0.186	0.198	0.333	351.077405	-12.782990	1539.95	-2030.89
7	GUIDE	used	763498280	9.62	18575	-0.133	-0.196	0.230	0.386	351.715548	-11.532836	-935.85	2346.36

2.4 Star Slots

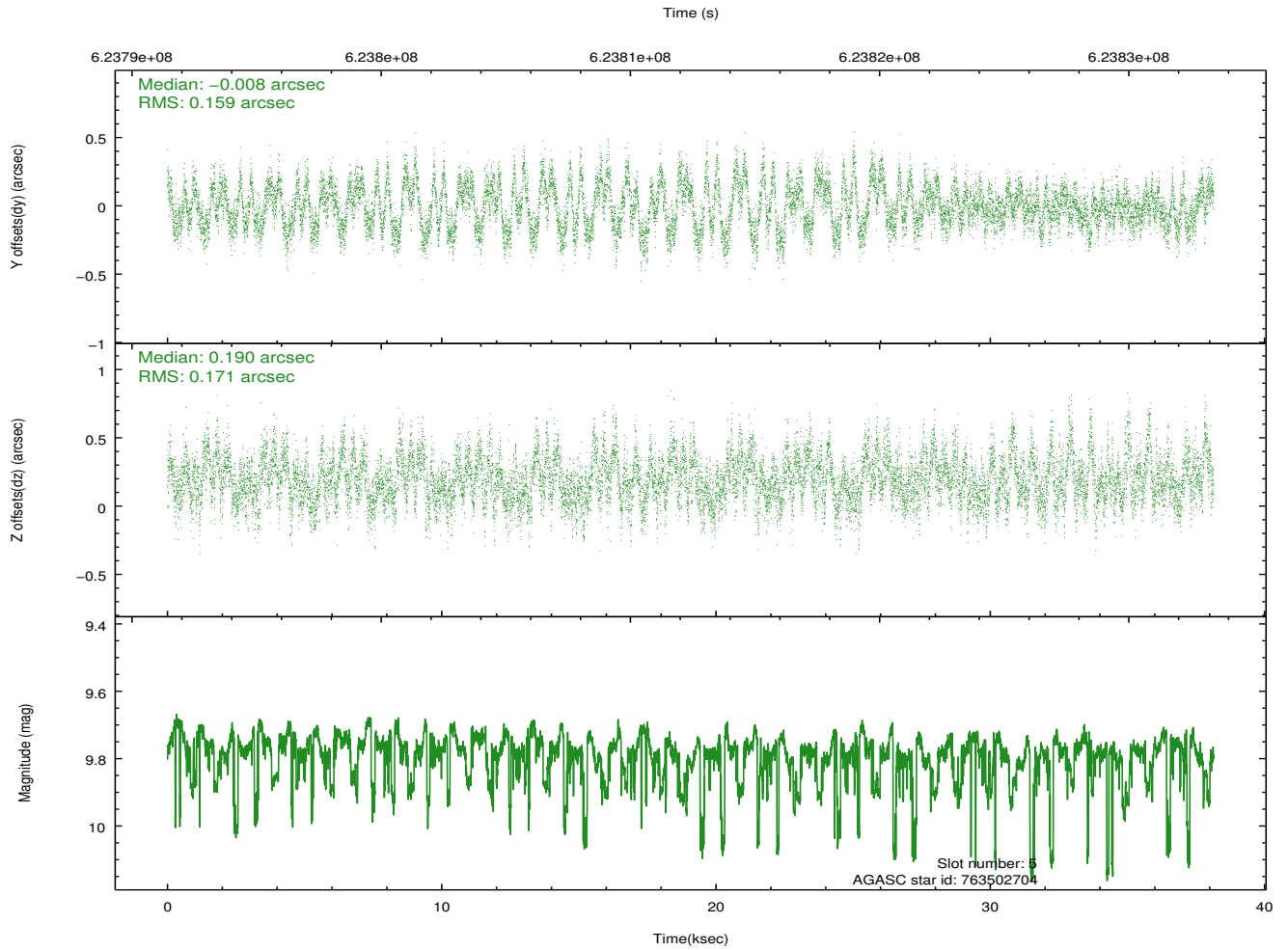
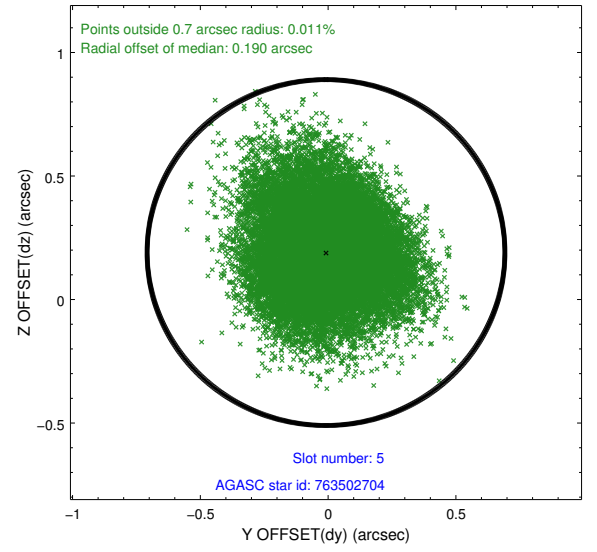
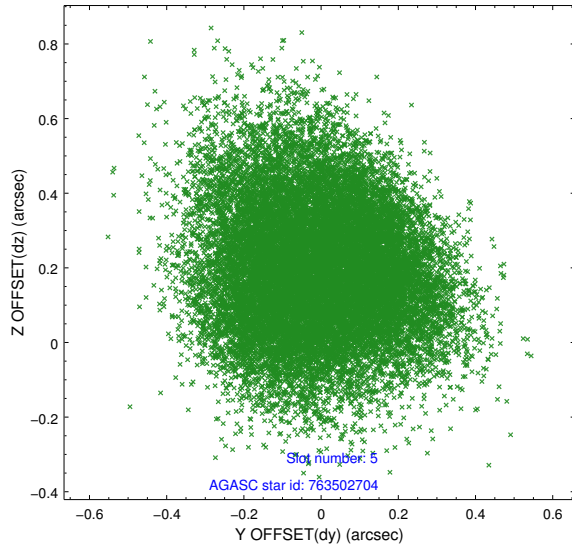
2.4.1 Slot 3



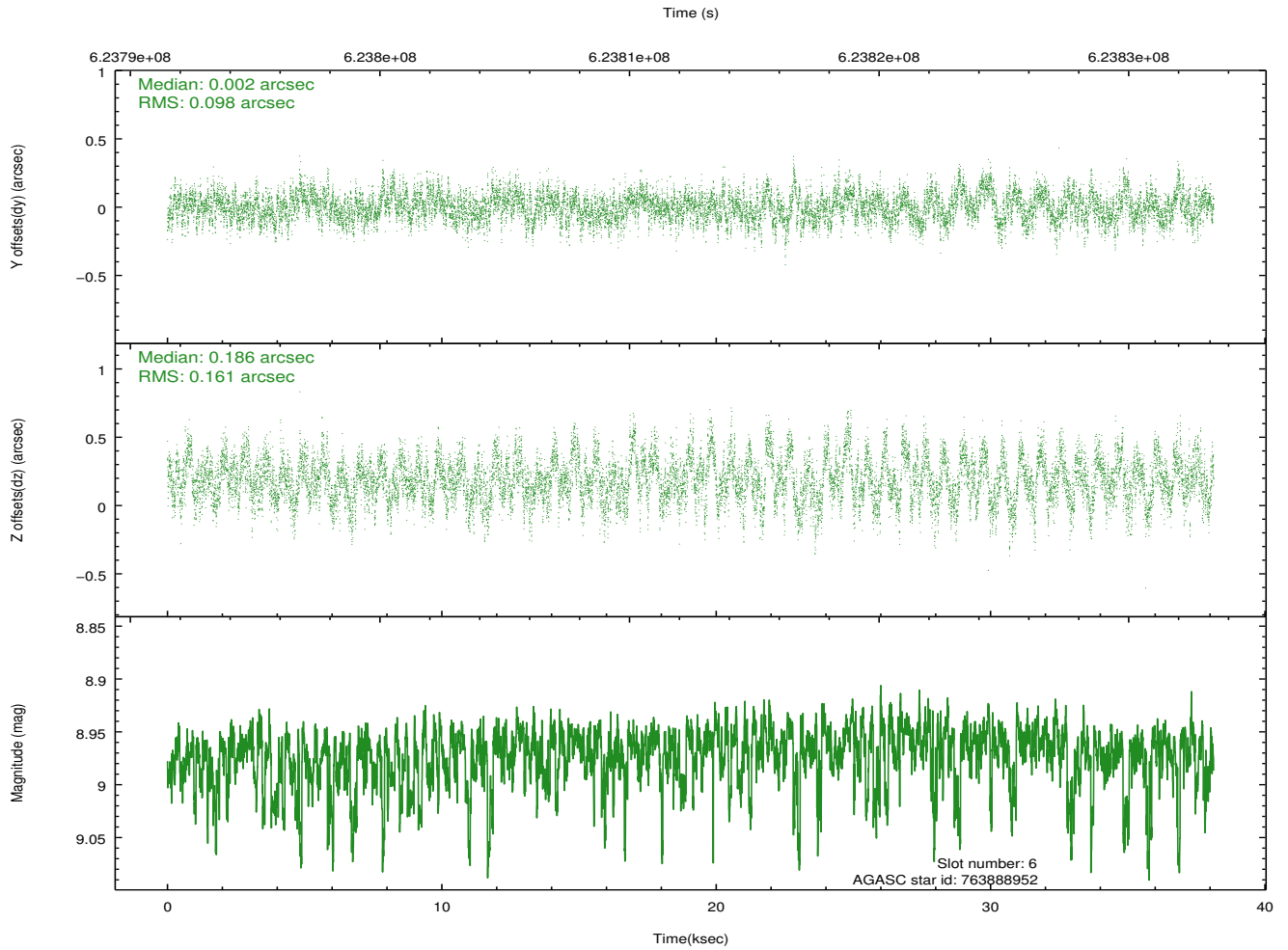
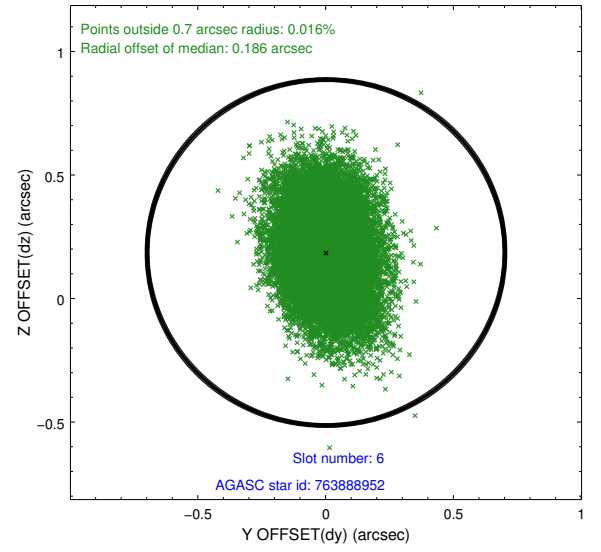
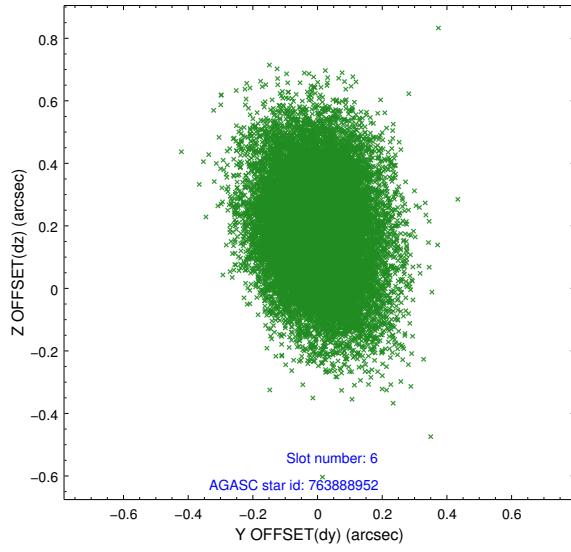
2.4.2 Slot 4



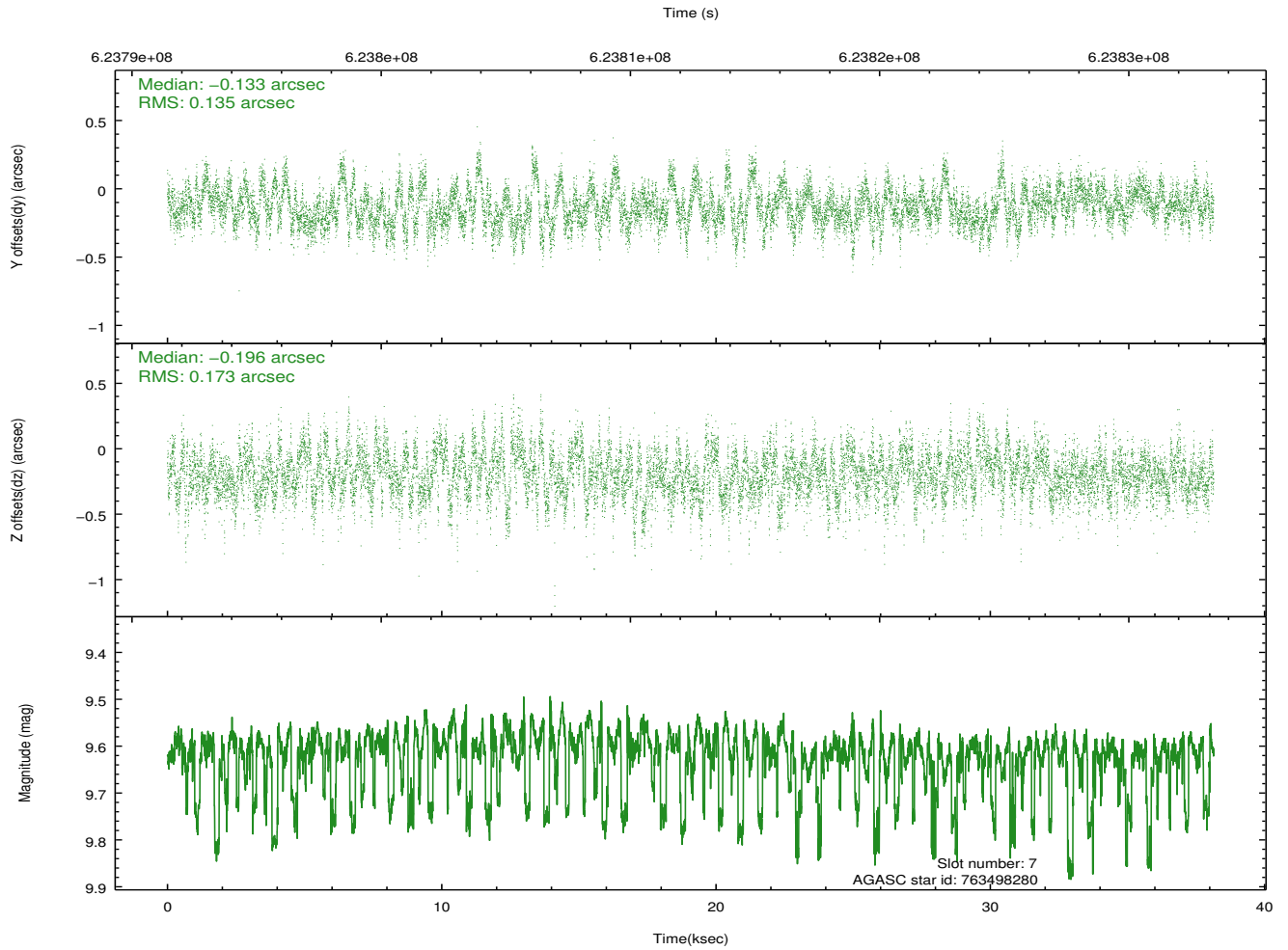
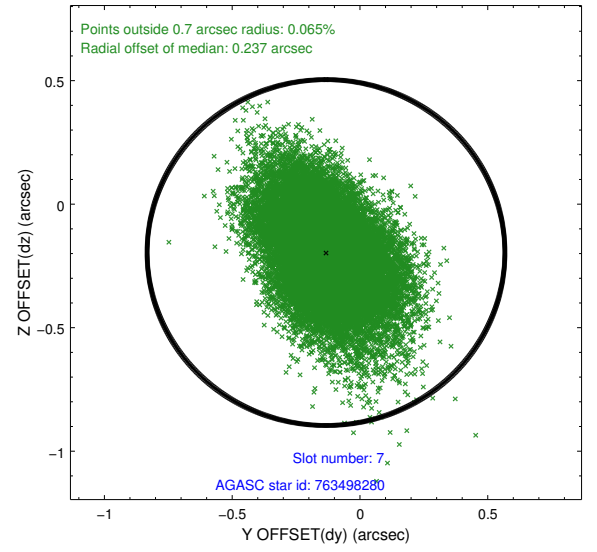
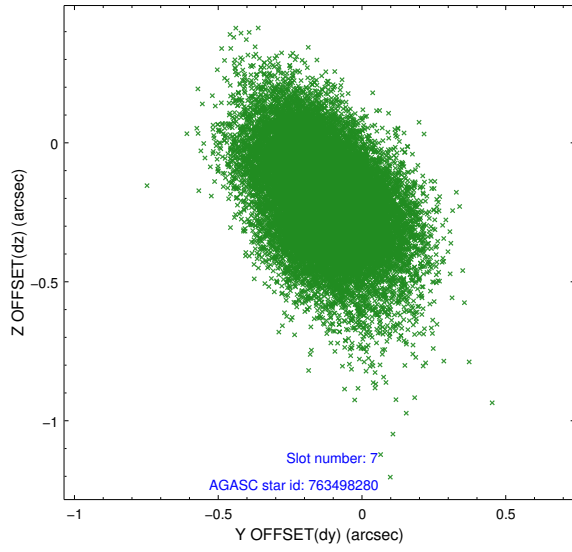
2.4.3 Slot 5



2.4.4 Slot 6

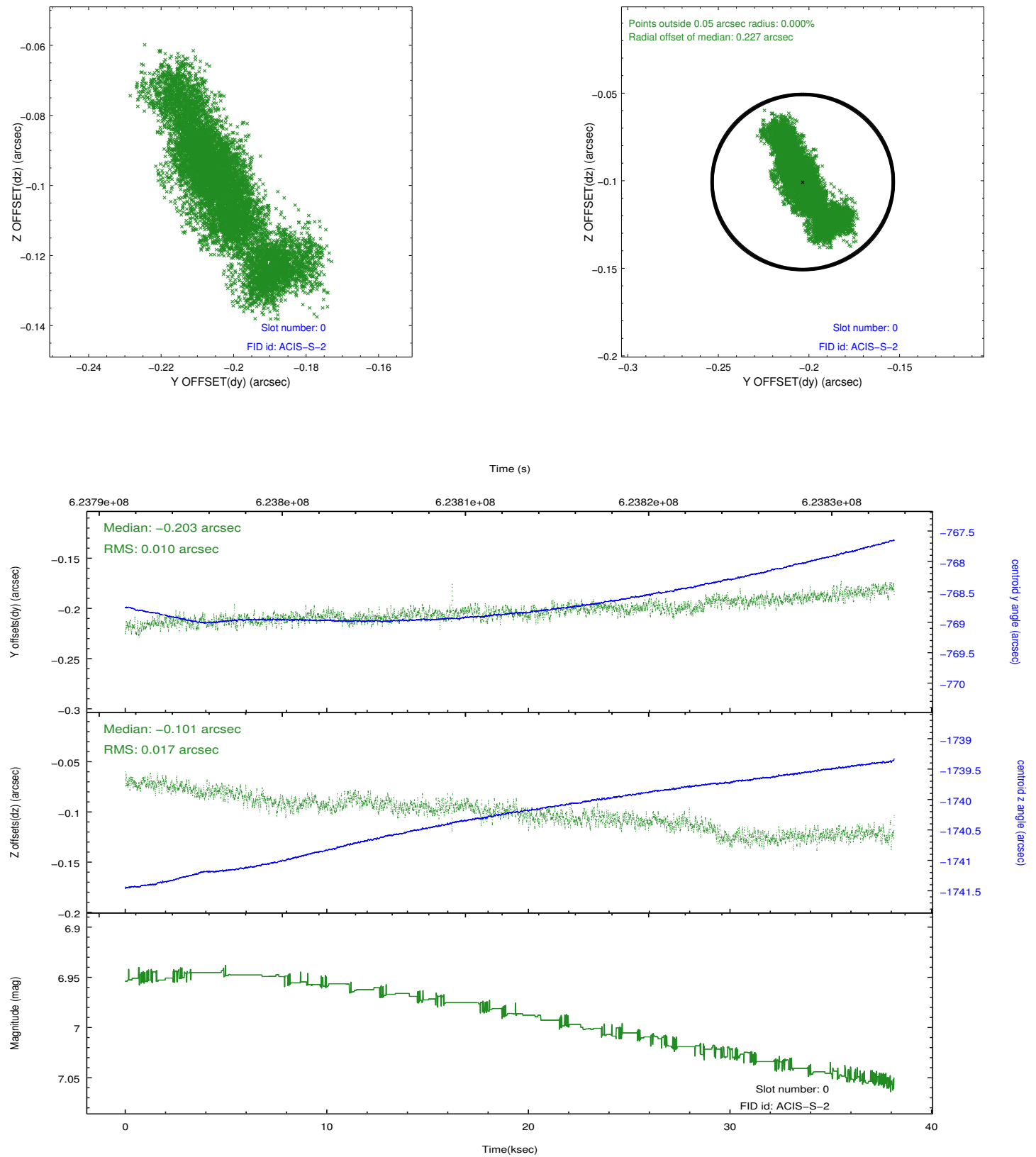


2.4.5 Slot 7

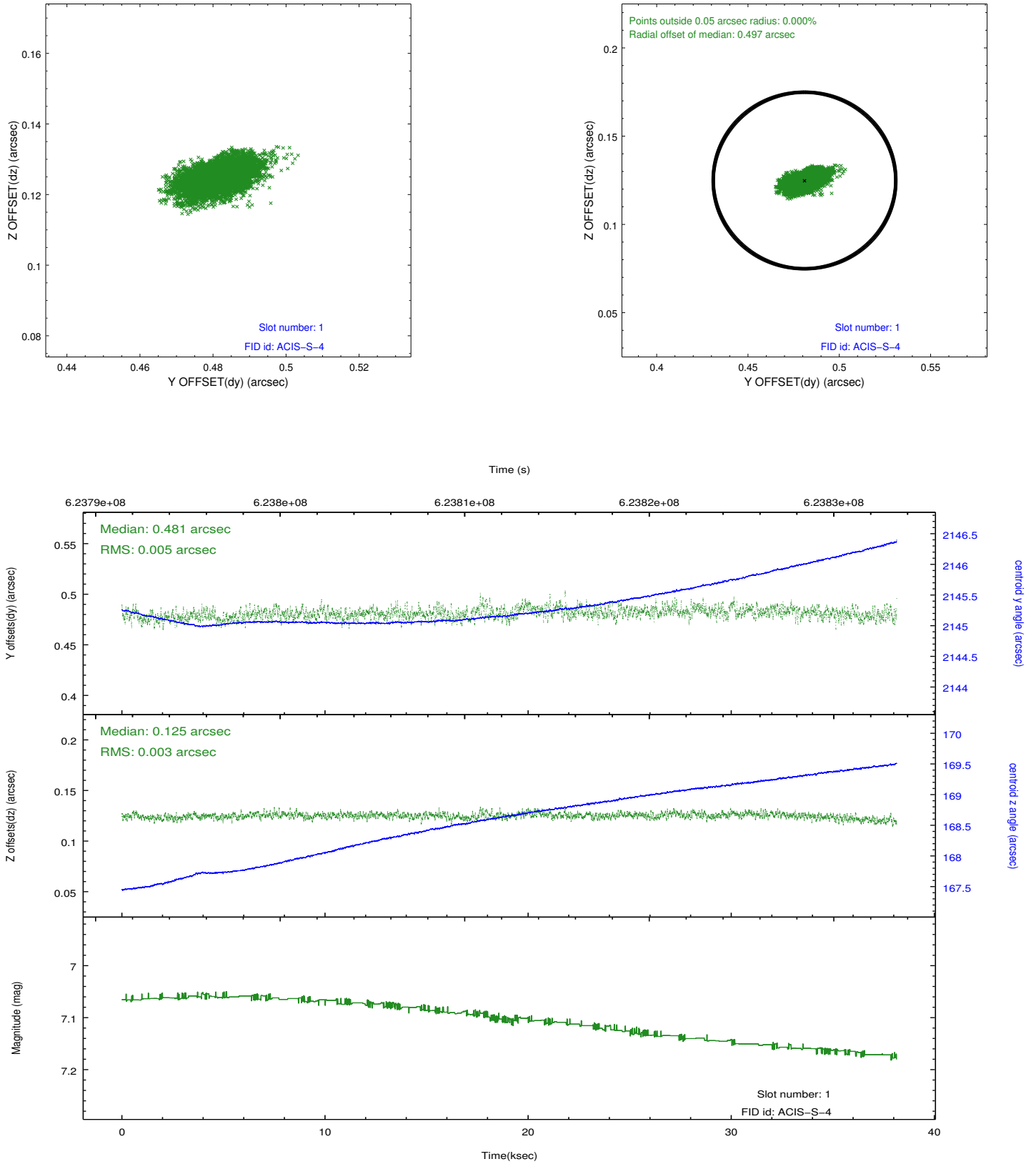


2.5 FID Slots

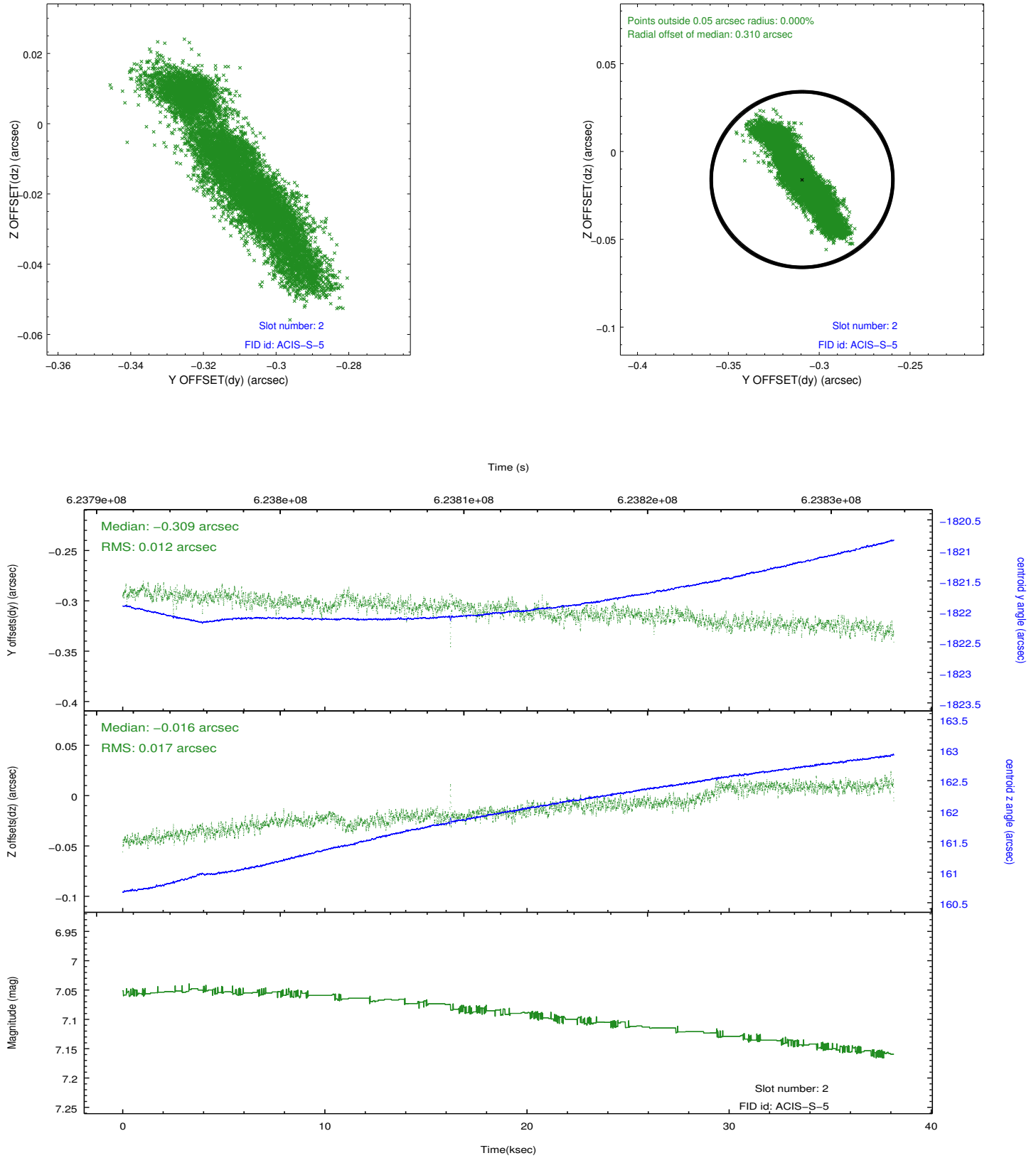
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.114500293255

A.2 Comments