

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 17664 - L2 Version 1
Chandra X-Ray Center

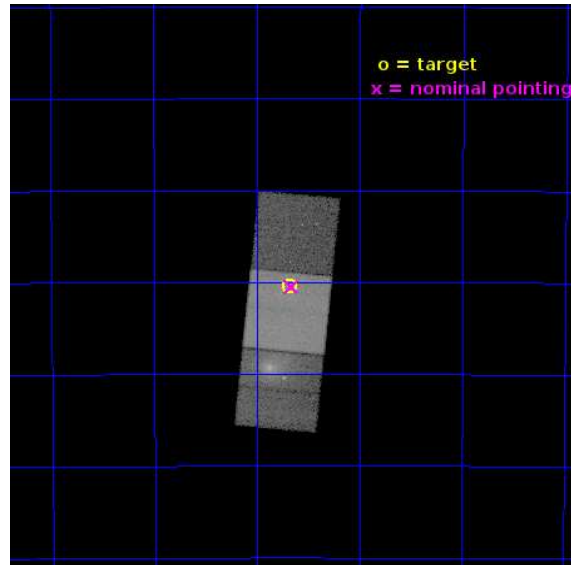
L2 Processing Date : Dec 26 2015

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1 Front

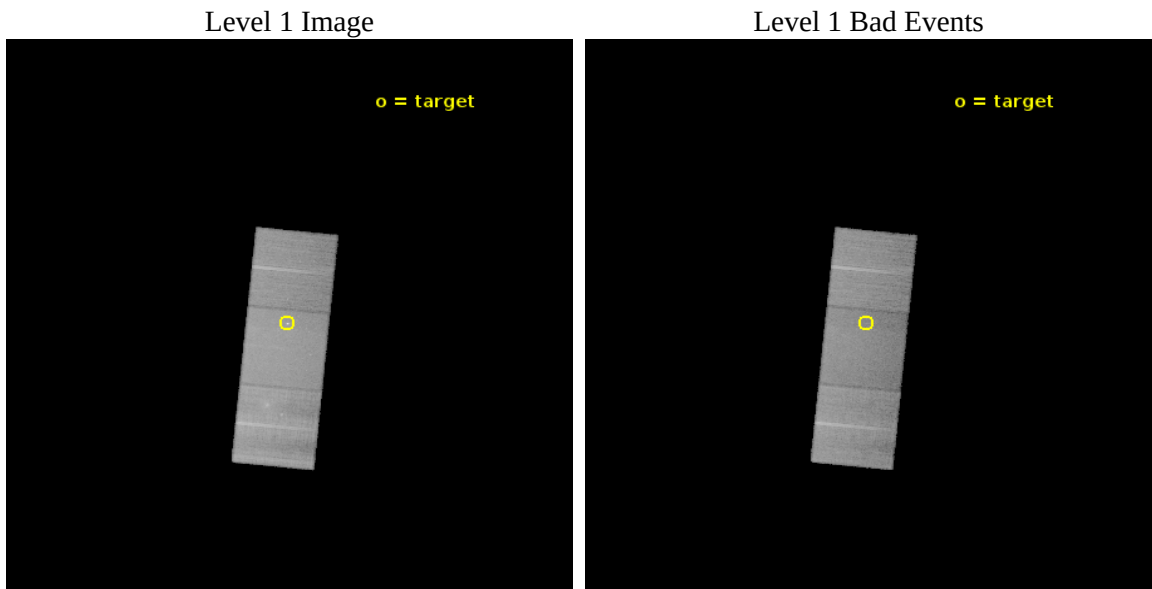
seq_num	703035	Sequence number
obs_id	17664	Observation id
title	The Complex Fe-K Emission of Compton-Thick AGNs	Proposal title
observer	Dr. Giuseppina Fabbiano	Principal investigator
object	NGC5643	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	218.169583	Observer's specified target RA [deg]
dec_targ	-44.174444	Observer's specified target Dec [deg]
ra_nom	218.16629051559	Nominal RA [deg]
dec_nom	-44.174719839559	Nominal Dec [deg]
roll_nom	95.708964337525	Nominal Roll [deg]
revision	1	Processing version of data
ontime	42076.300323725	Sum of GTIs [s]
livetime	41526.542483874	Livetime [s]
ontime6	42073.159303546	Sum of GTIs [s]
ontime7	42076.300323725	Sum of GTIs [s]
ontime8	42076.300323725	Sum of GTIs [s]
l2events	217745	Number of level 2 events



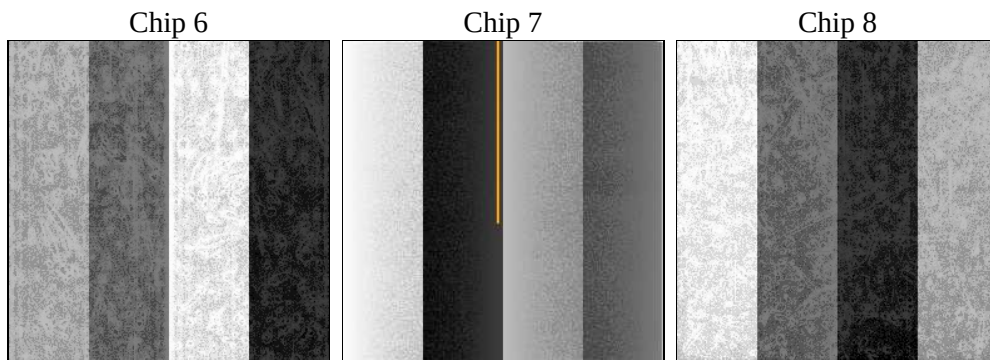
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	42000.580000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	42076.300323725	Sum of GTIs [s]
caldsver	4.7.0	 	ontime6	42073.159303546	Sum of GTIs [s]
date	2015-12-27T01:12:04	Date and time of file creation	ontime7	42076.300323725	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	42076.300323725	Sum of GTIs [s]
			l1events	929279	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	248236	329330	351713
rejected events	219247	178661	241935
rejected %	88%	54%	68%

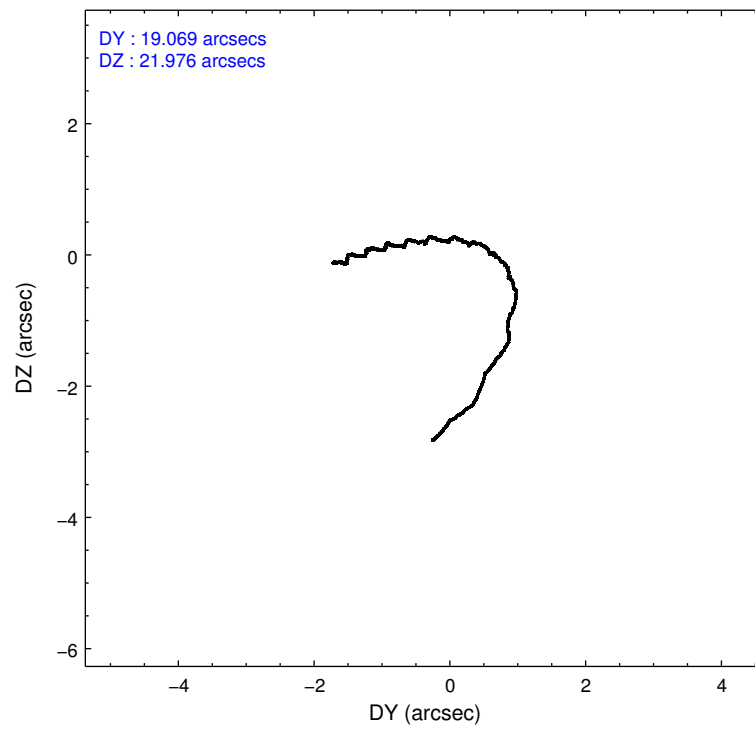
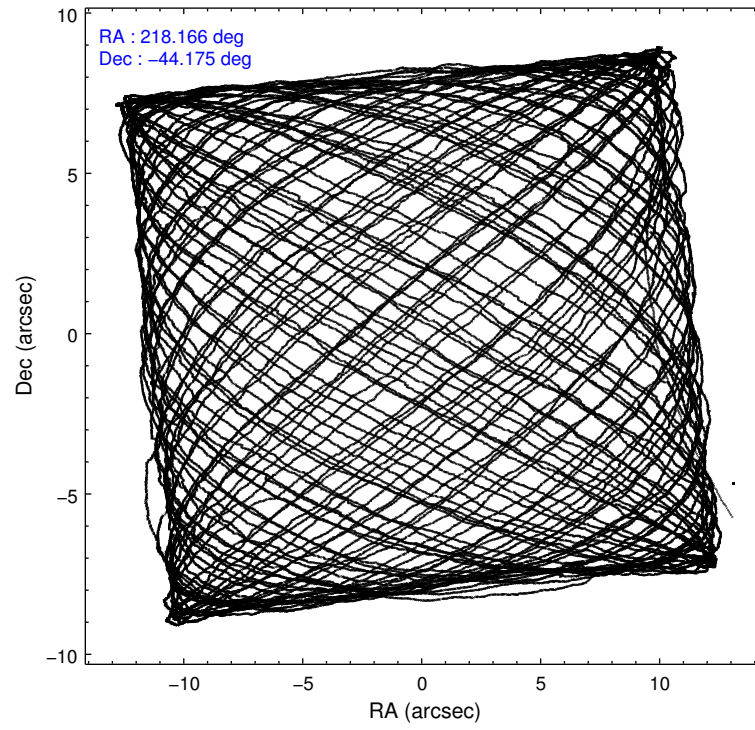
	ccd 6	ccd 7	ccd 8
grade 0 events	10172	14869	40794
	4%	4%	11%
grade 1 events	123	423	349
	0%	0%	0%
grade 2 events	6541	31867	23952
	2%	9%	6%
grade 3 events	2843	12781	10200
	1%	3%	2%
grade 4 events	2835	12602	9795
	1%	3%	2%
grade 5 events	12222	32724	18358
	4%	9%	5%
grade 6 events	6601	78570	25064
	2%	23%	7%
grade 7 events	206899	145494	223201
	83%	44%	63%

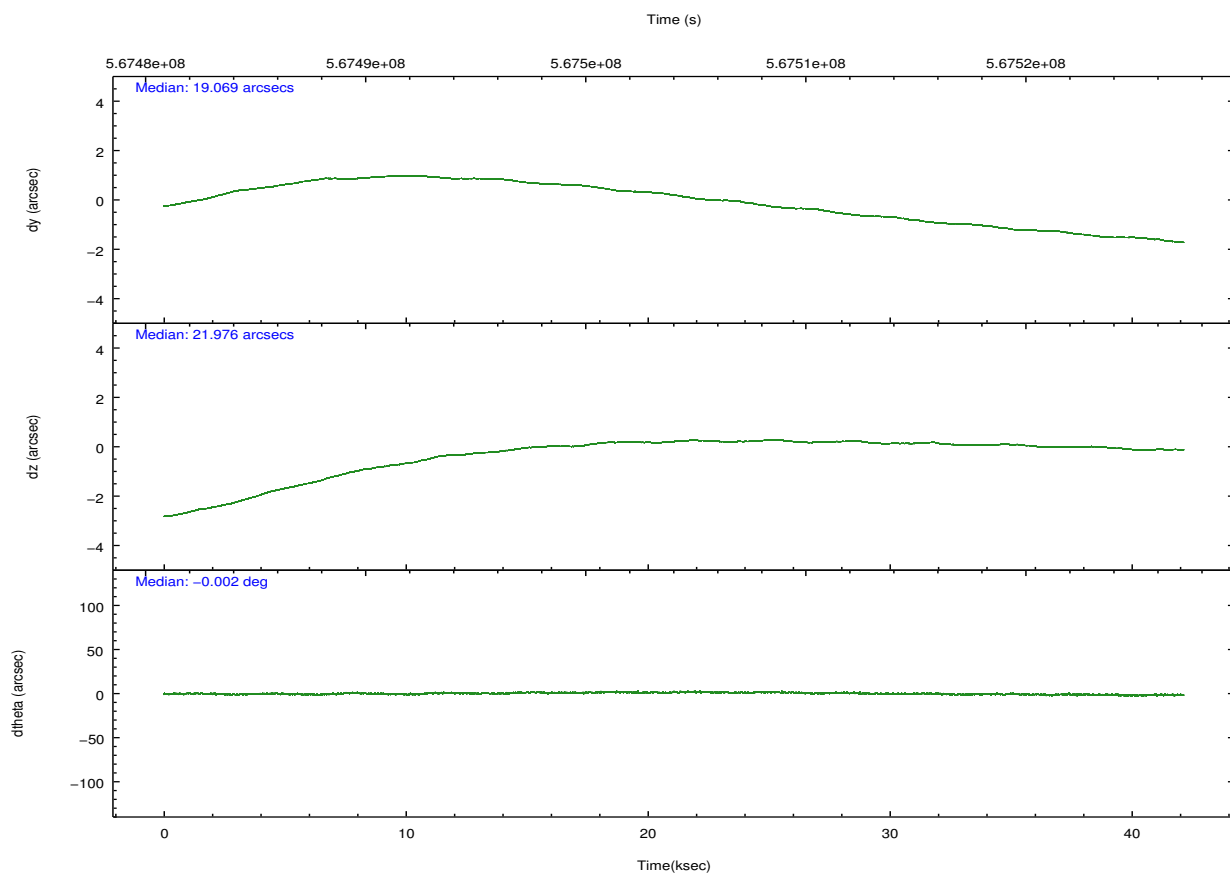
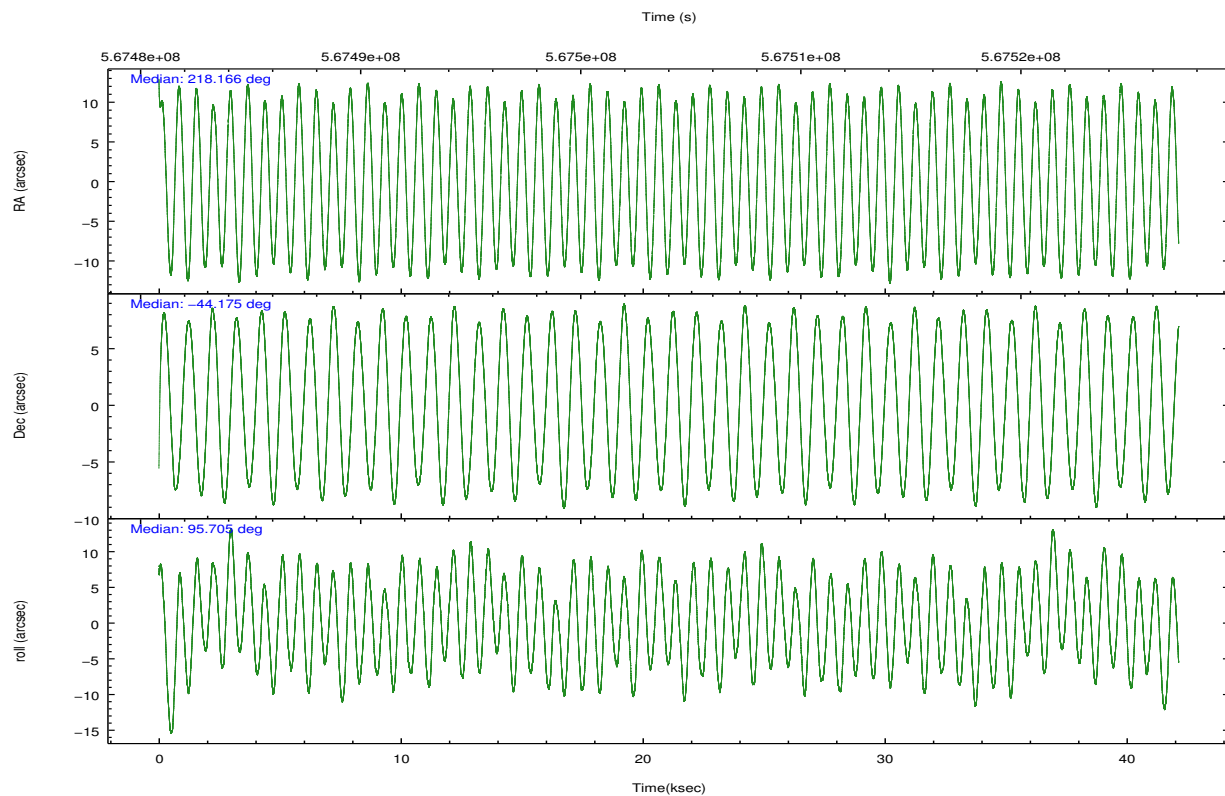
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	218.189031	218.1662905155877
[deg] Pointing Dec	-44.196786	-44.17471983955939
[deg] Pointing Roll	95.568191	95.70896433752466
[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)	567483072.184000	567481850.8358099
Observation start date	2015-12-26T02:10:04	2015-12-26T01:50:50
[s] Observation end time (MET)	567525072.184000	567525298.02578
Observation end date	2015-12-26T13:50:04	2015-12-26T13:54:58
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	N	N
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	Y	Y
CCD S4 on	O2	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



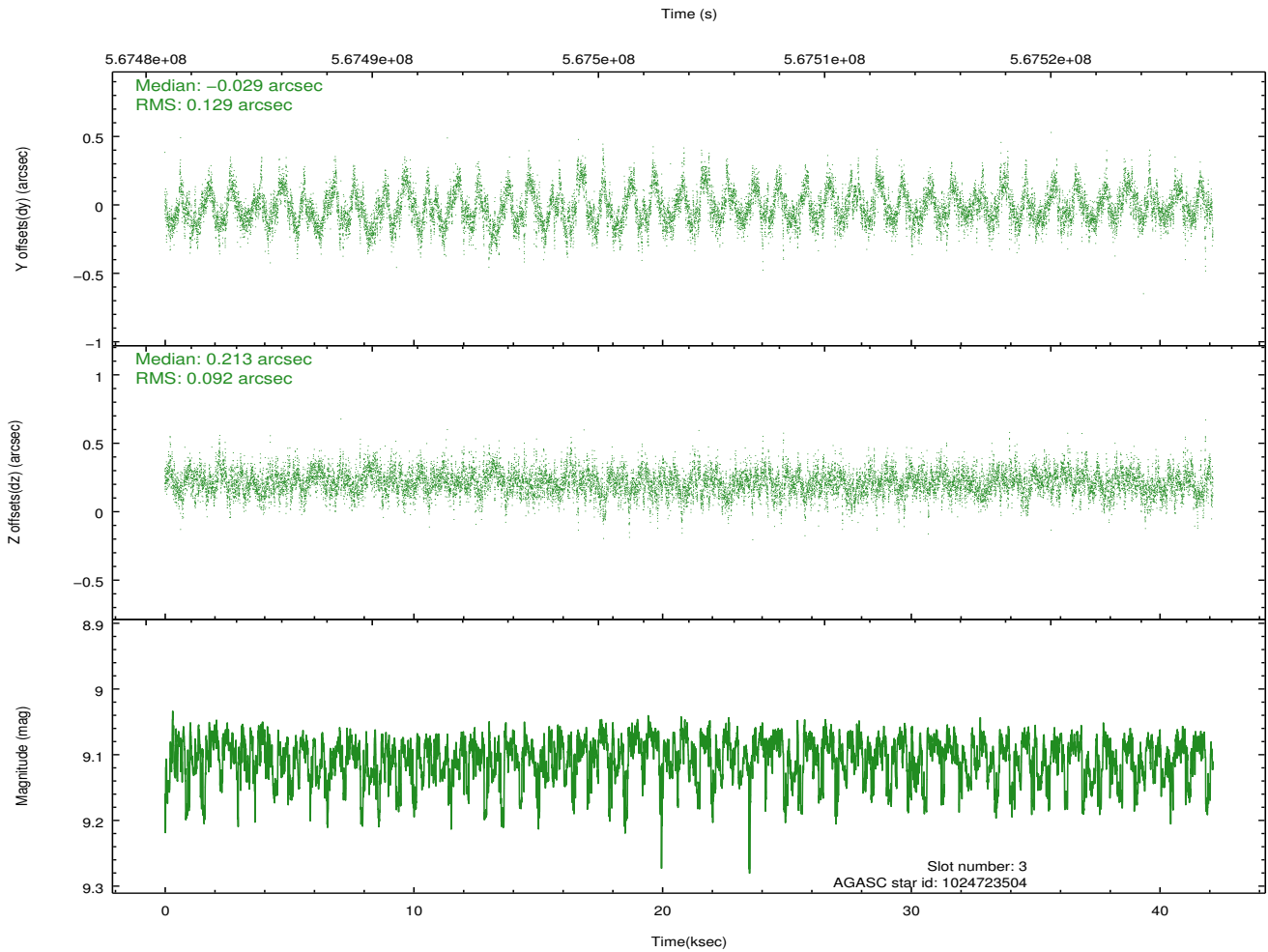
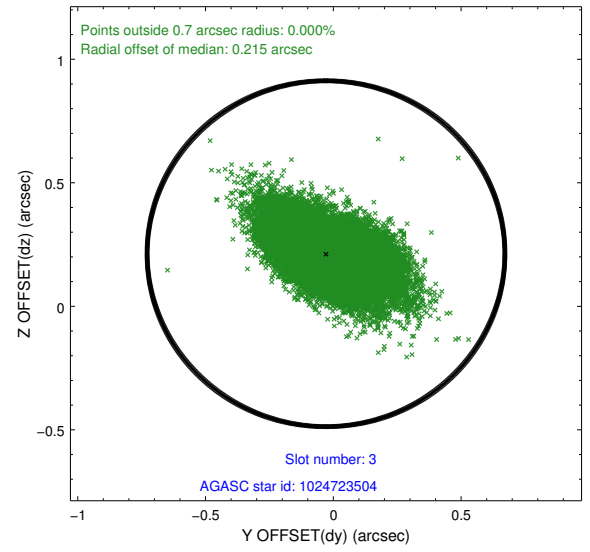
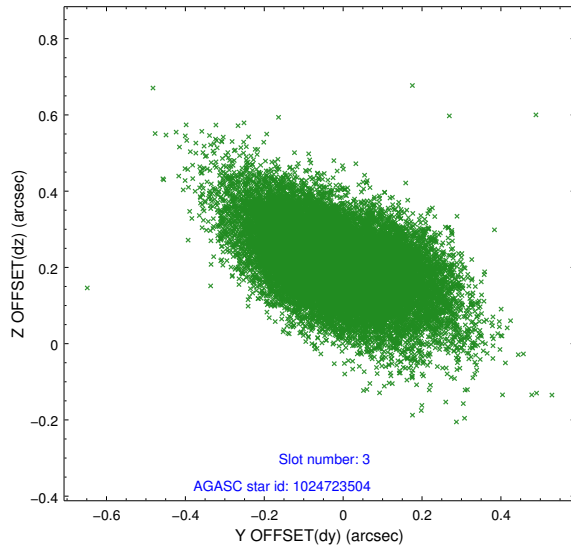


Slot Statistics

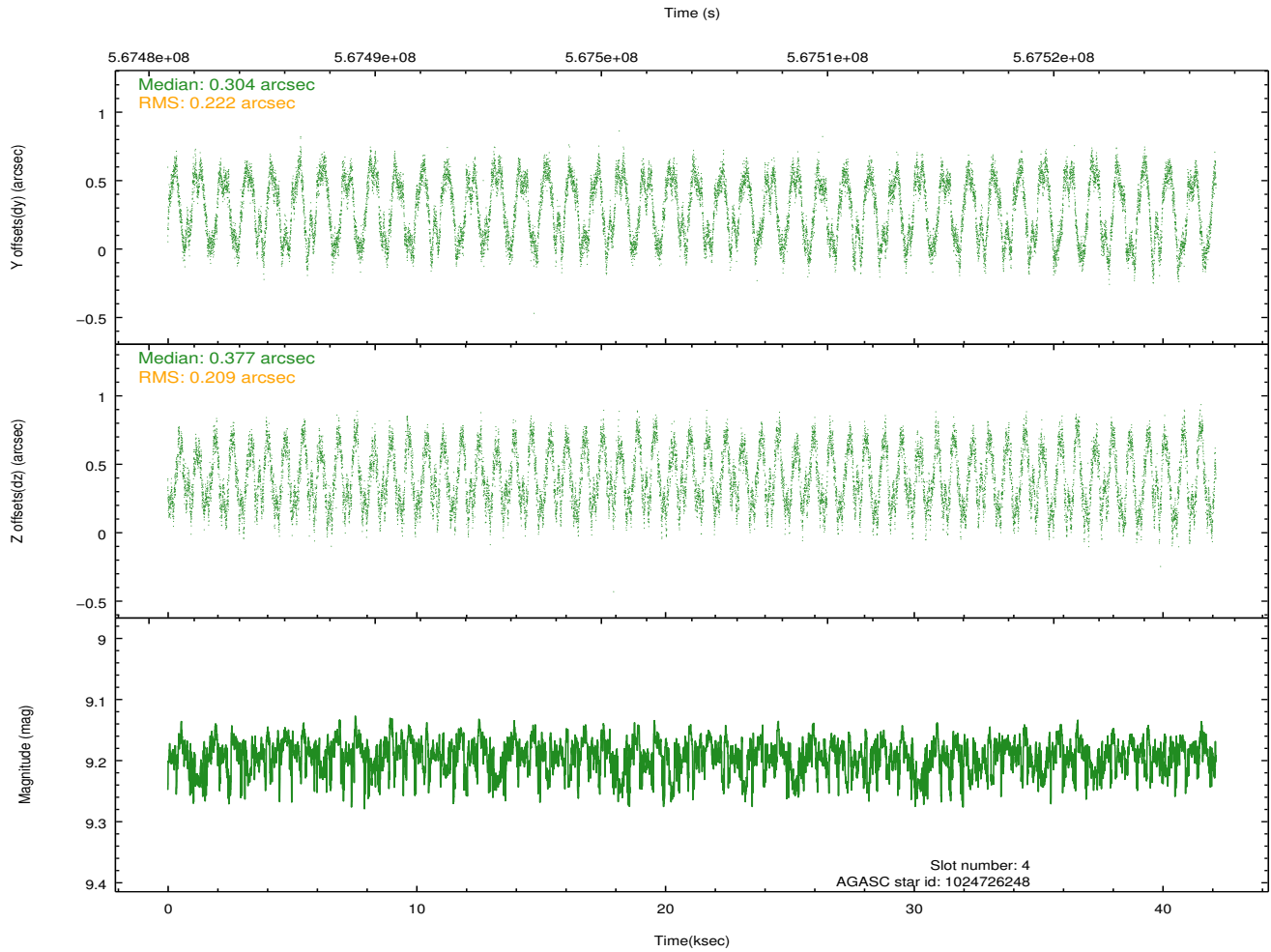
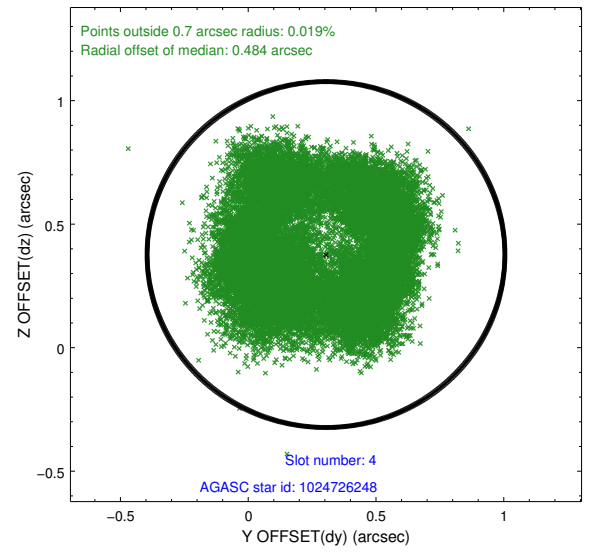
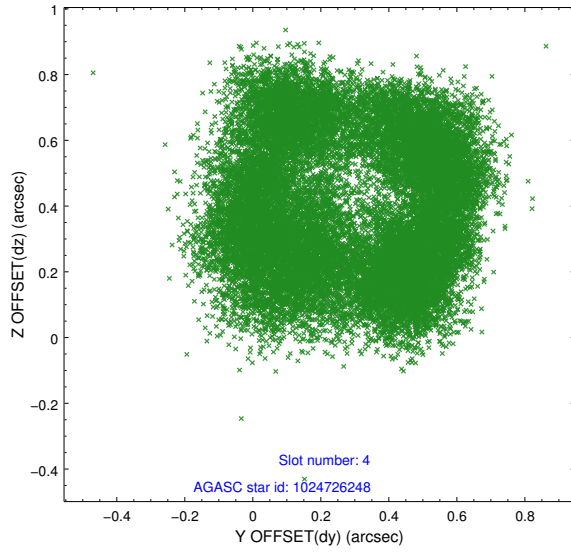
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	10278	-0.297	-0.216	0.025	0.053	0.000000	0.000000	-772.38	-1743.29
1	FID		ACIS-S-4	7.21	10278	0.308	0.163	0.031	0.050	0.000000	0.000000	2141.55	165.46
2	FID		ACIS-S-6	7.35	10278	-0.044	0.064	0.013	0.024	0.000000	0.000000	389.94	802.83
3	GUIDE	used	1024723504	9.10	20540	-0.029	0.213	0.163	0.287	218.982684	-43.548287	2113.26	-2286.00
4	GUIDE	used	1024726248	9.19	20536	0.304	0.377	0.335	0.443	218.482937	-44.678192	-1798.77	-579.68
5	GUIDE	used	1024730584	9.33	20403	0.159	-0.152	0.143	0.230	218.164125	-44.729272	-1901.34	249.43
6	GUIDE	used	1024731200	8.15	20555	-0.050	0.030	0.131	0.200	218.772288	-43.554537	2148.17	-1737.42
7	GUIDE	used	1024741640	7.30	20555	-0.375	-0.483	0.138	0.220	217.541549	-43.863883	1348.89	1557.34

2.4 Star Slots

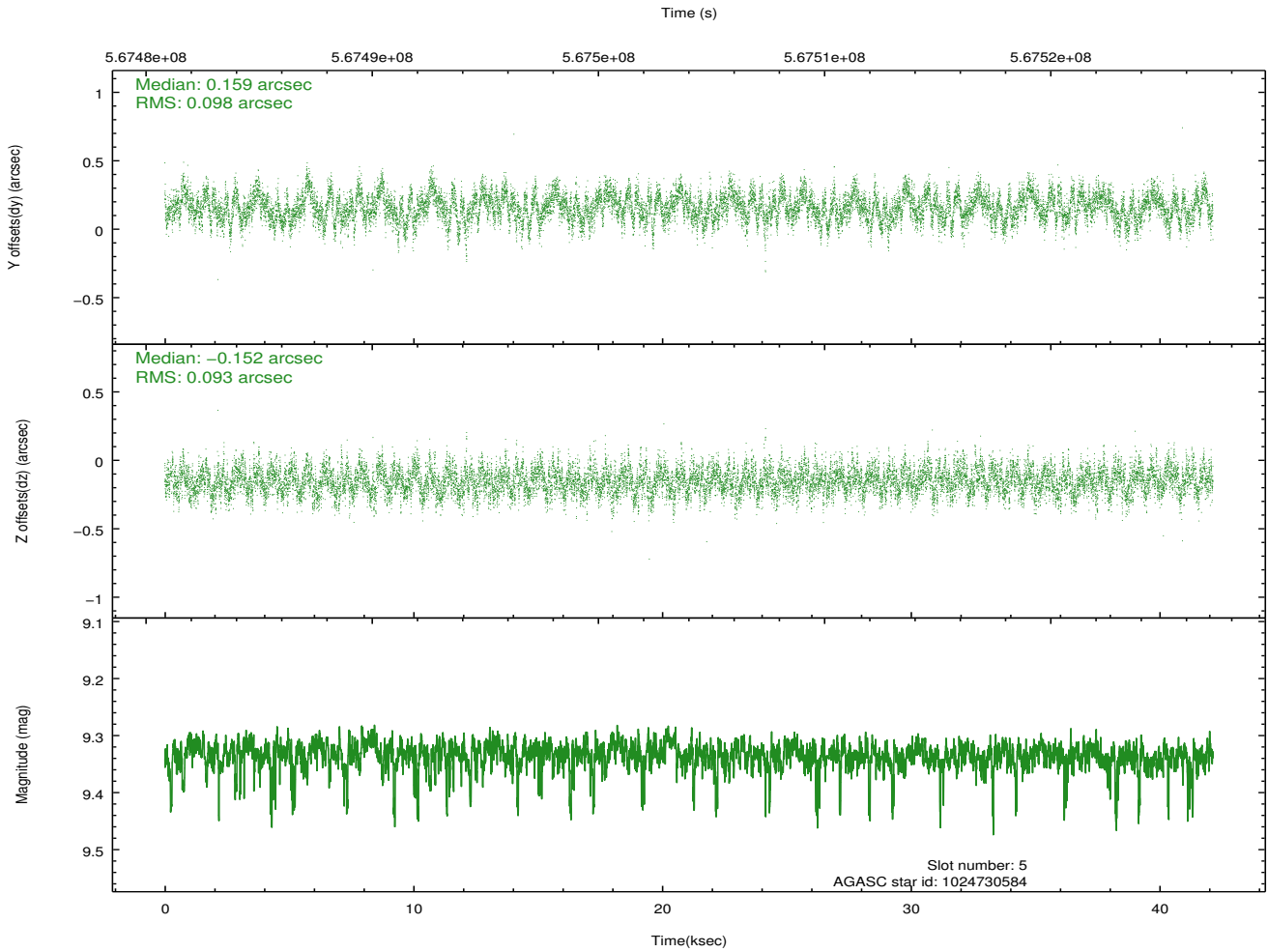
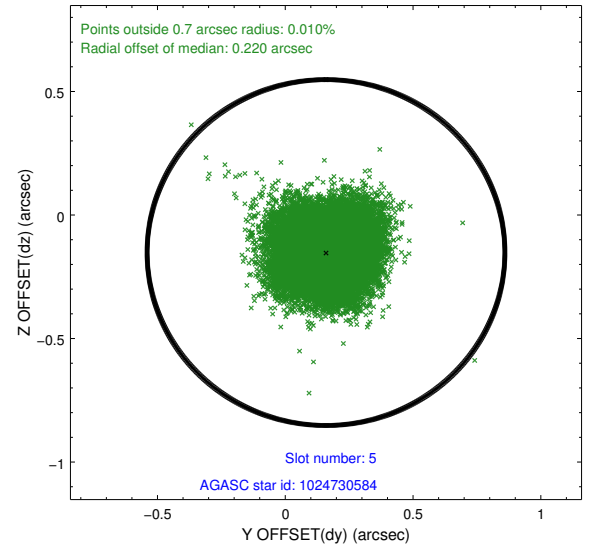
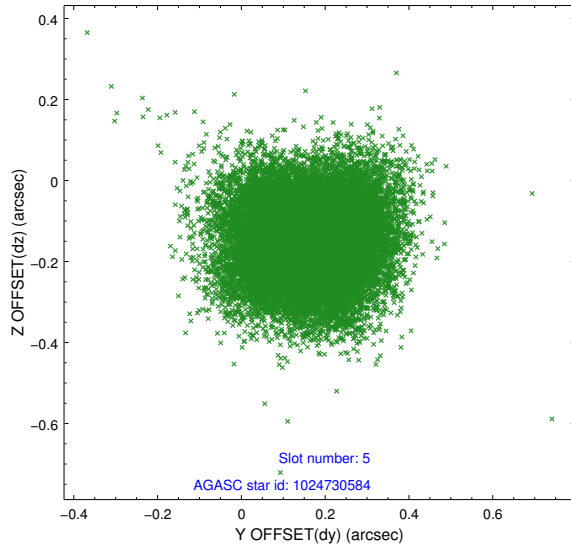
2.4.1 Slot 3



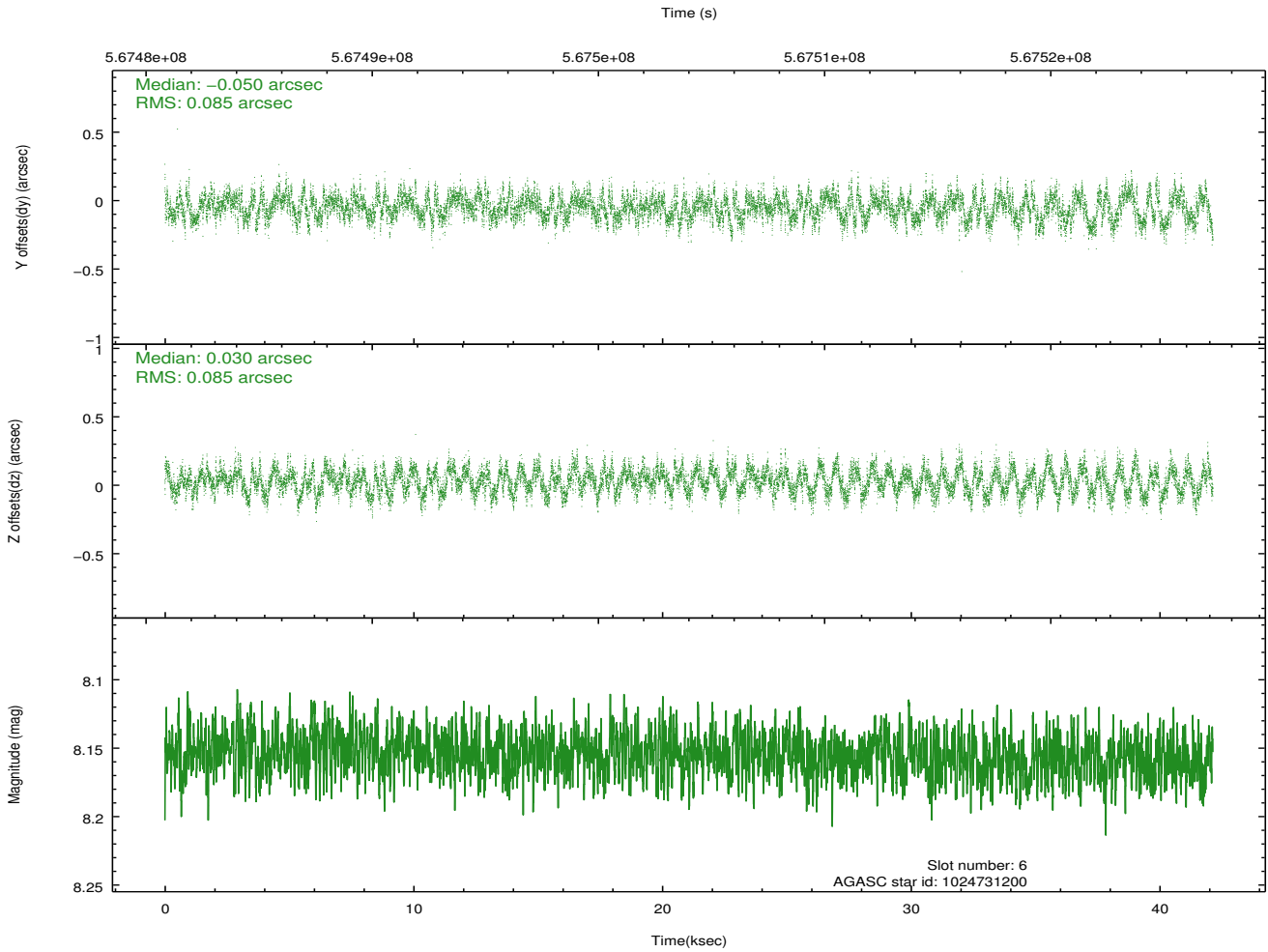
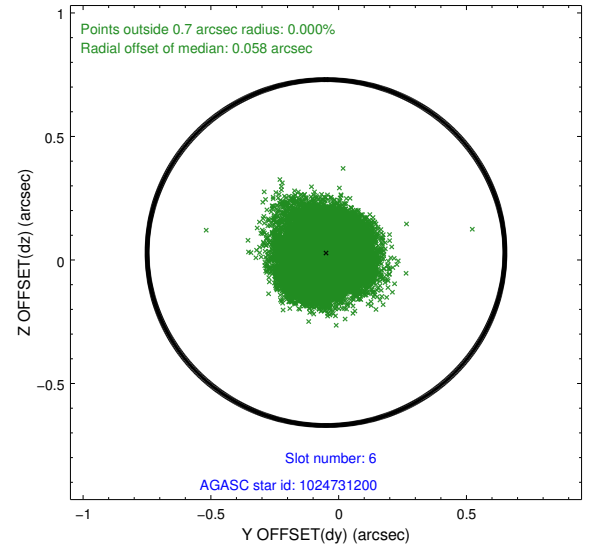
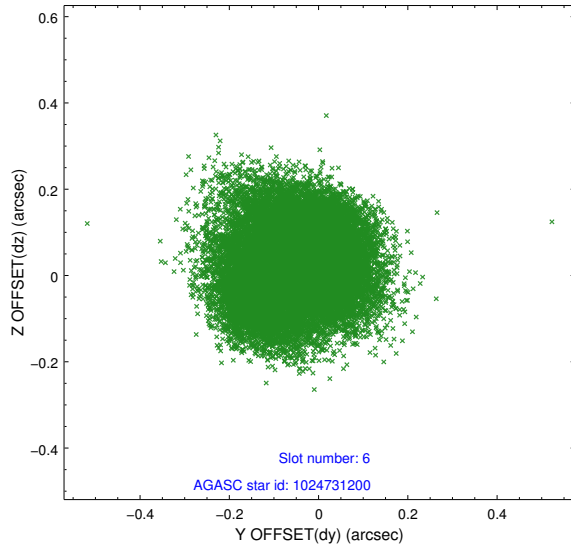
2.4.2 Slot 4



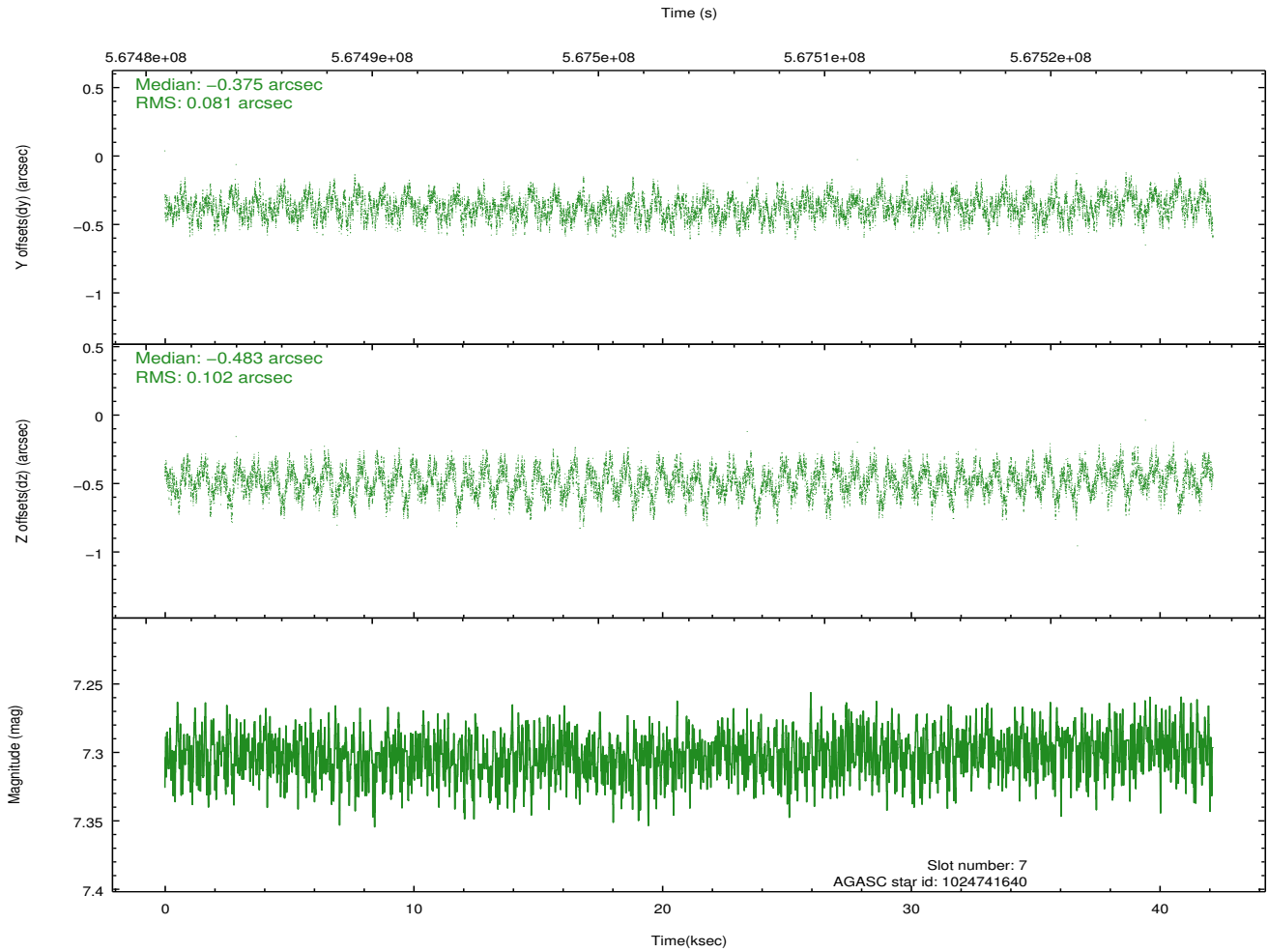
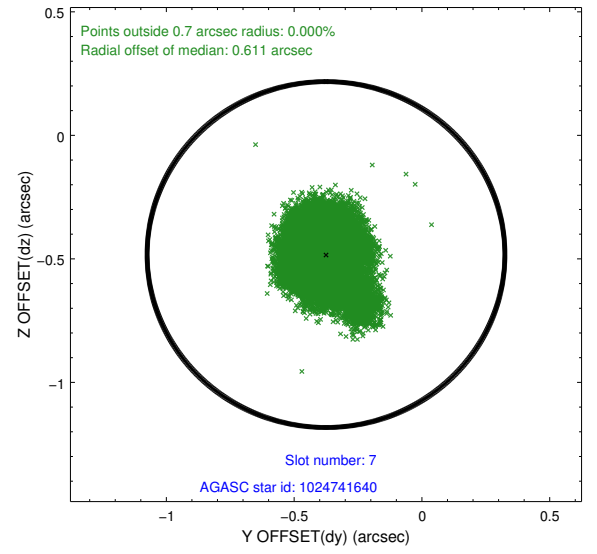
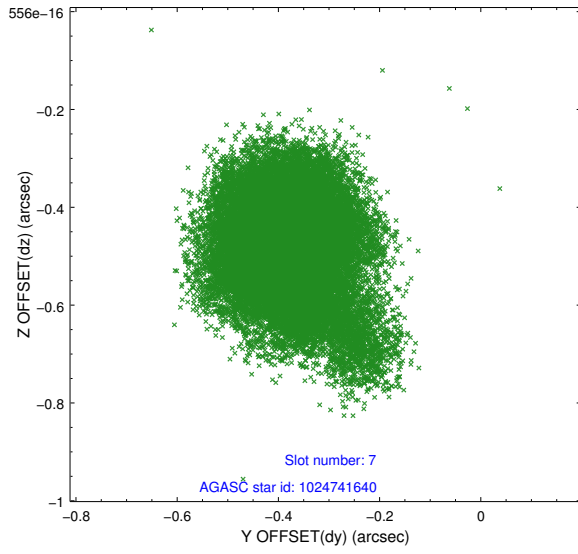
2.4.3 Slot 5



2.4.4 Slot 6

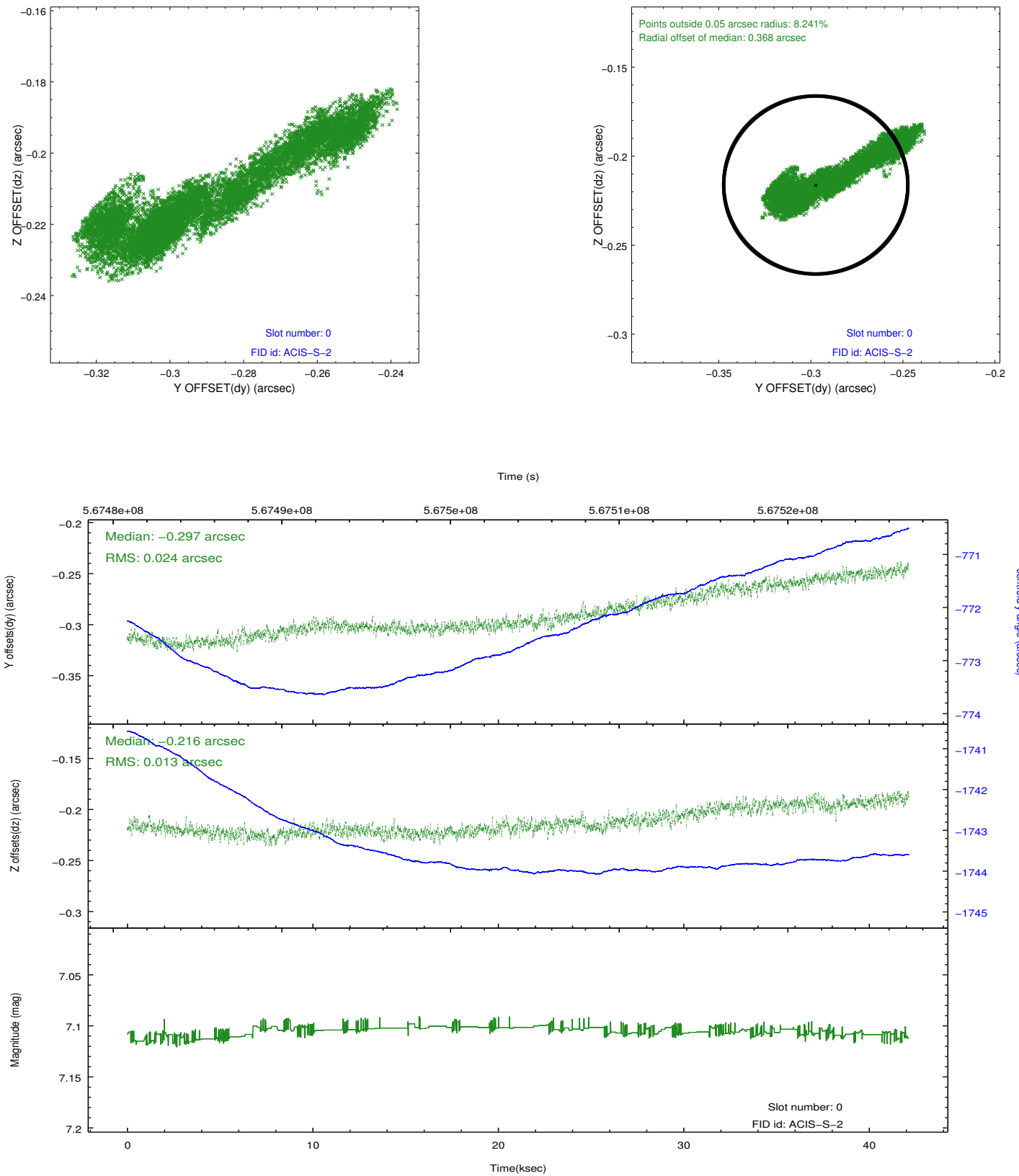


2.4.5 Slot 7

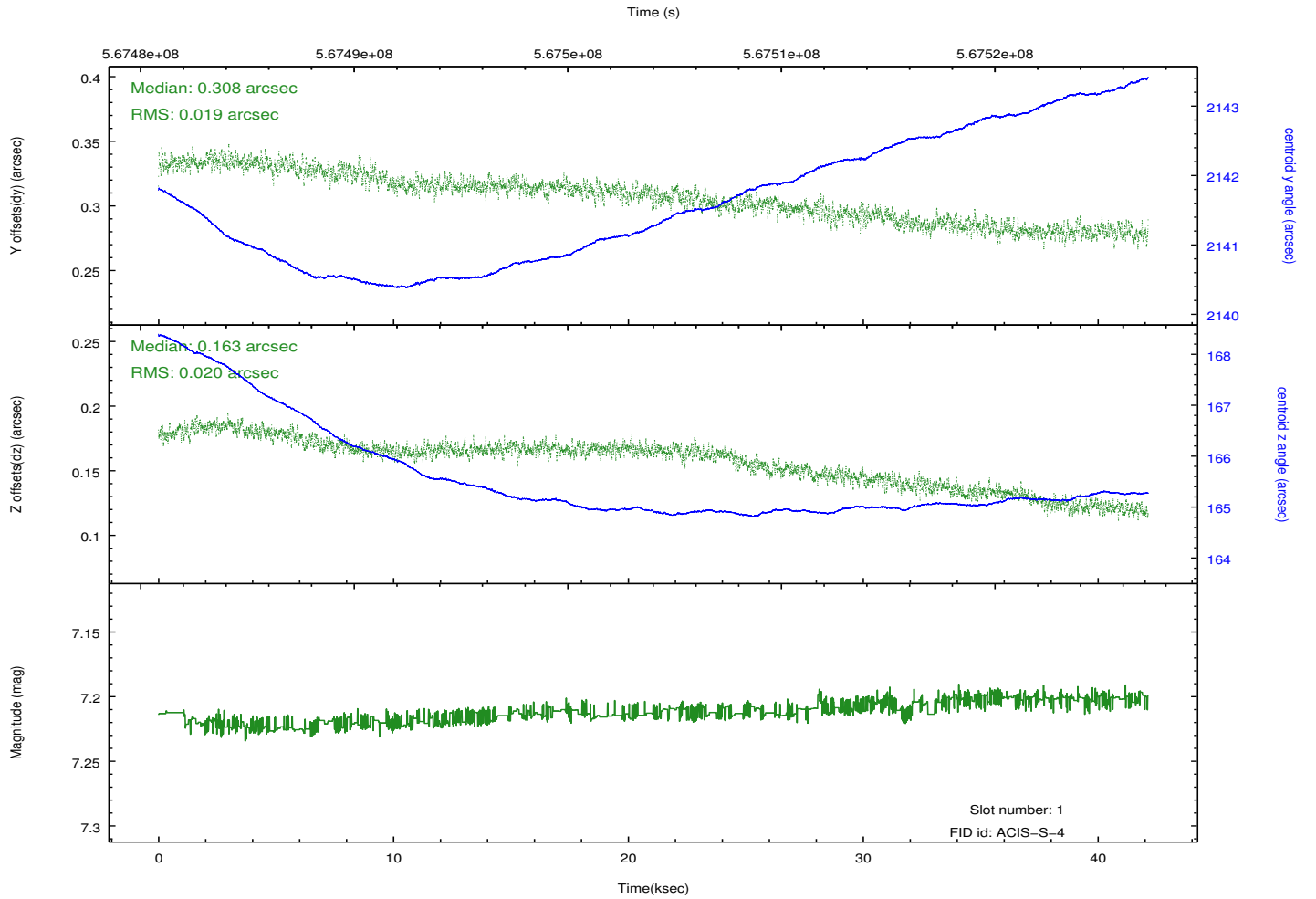
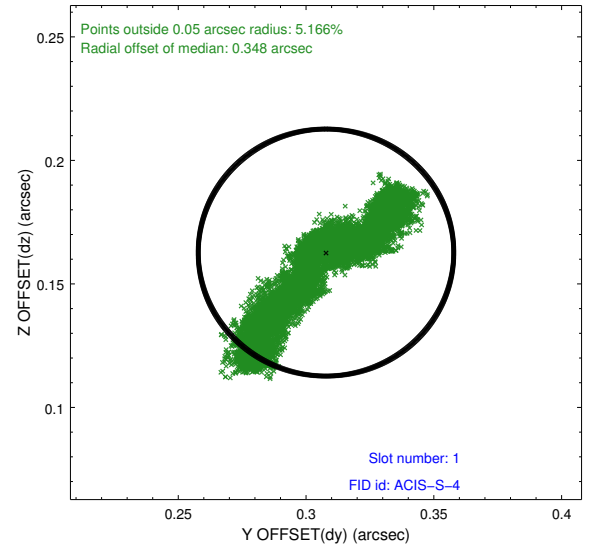
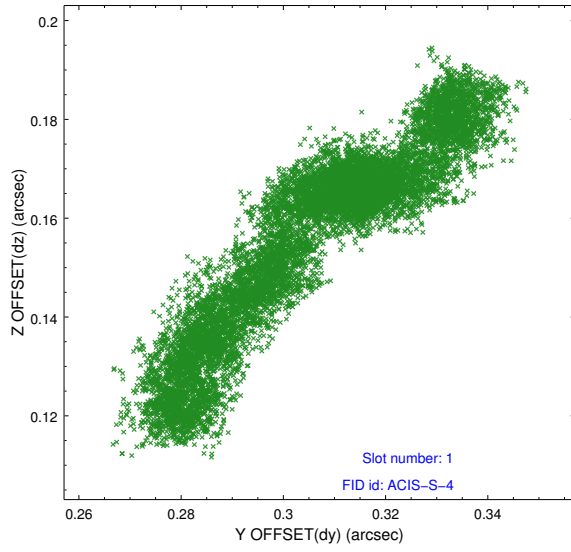


2.5 FID Slots

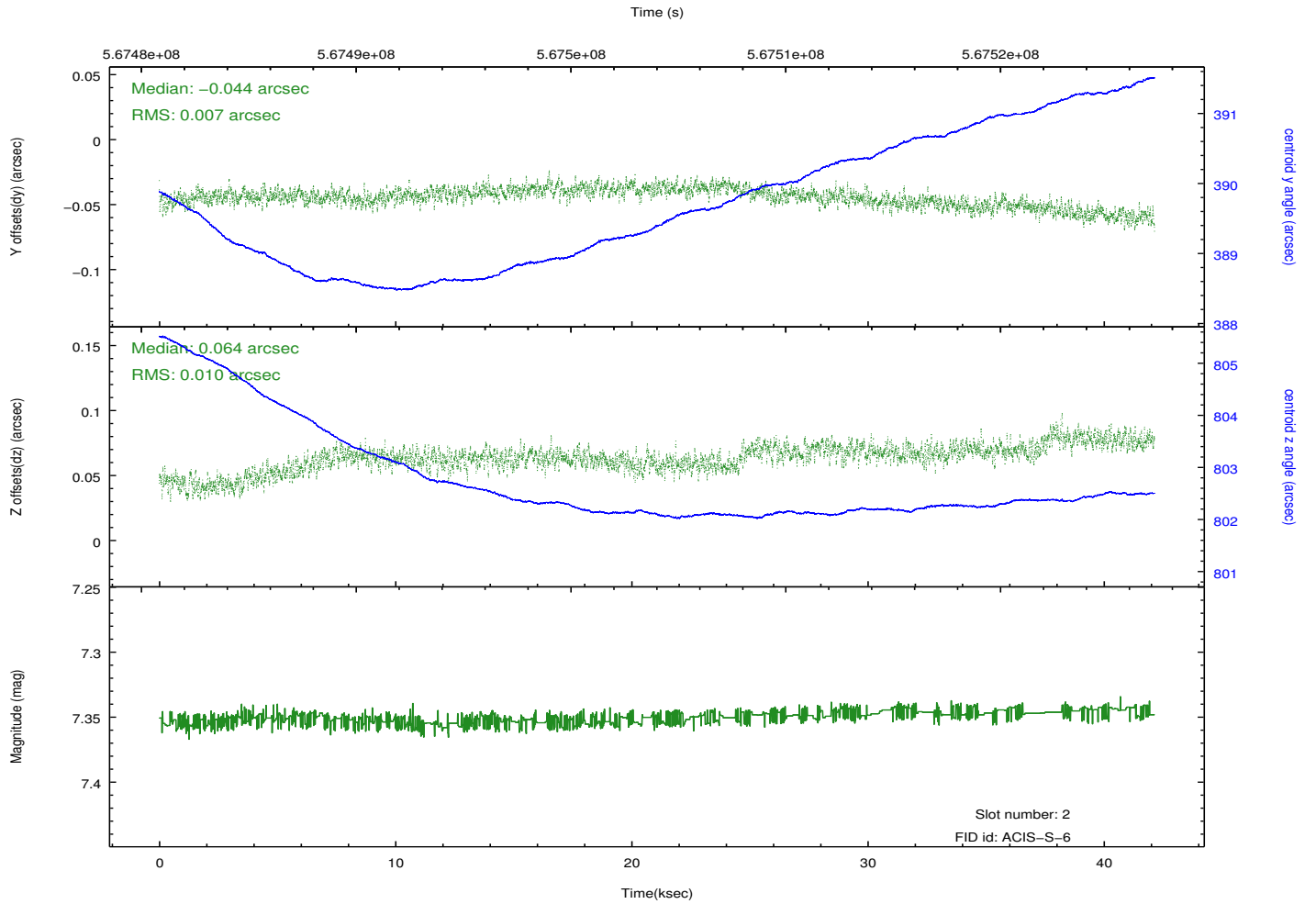
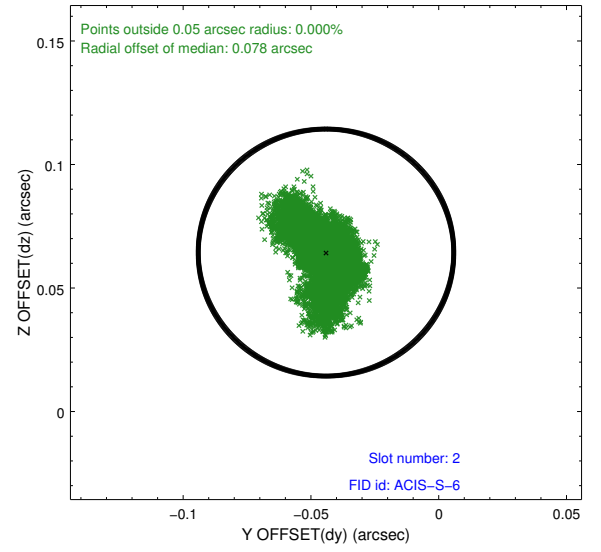
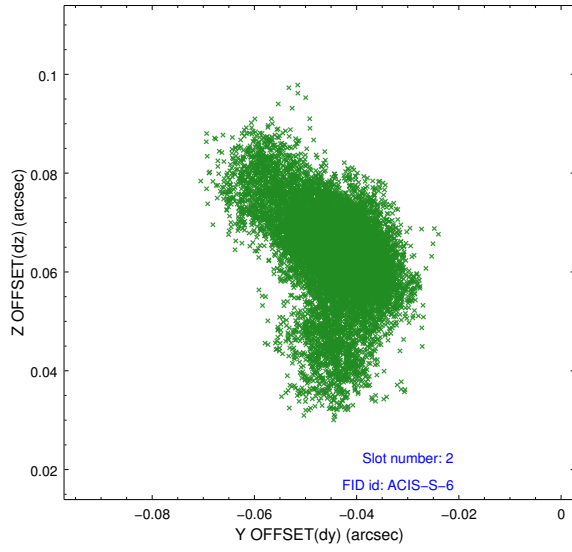
2.5.1 Slot 0



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)	2015.12.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	42.076300323725

A.2 Comments