

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21204 - L2 Version 1
Chandra X-Ray Center

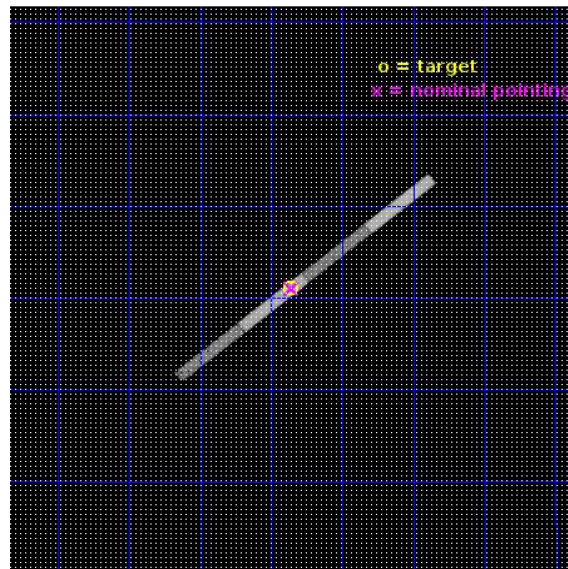
L2 Processing Date : Jun 3 2019

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1 Front

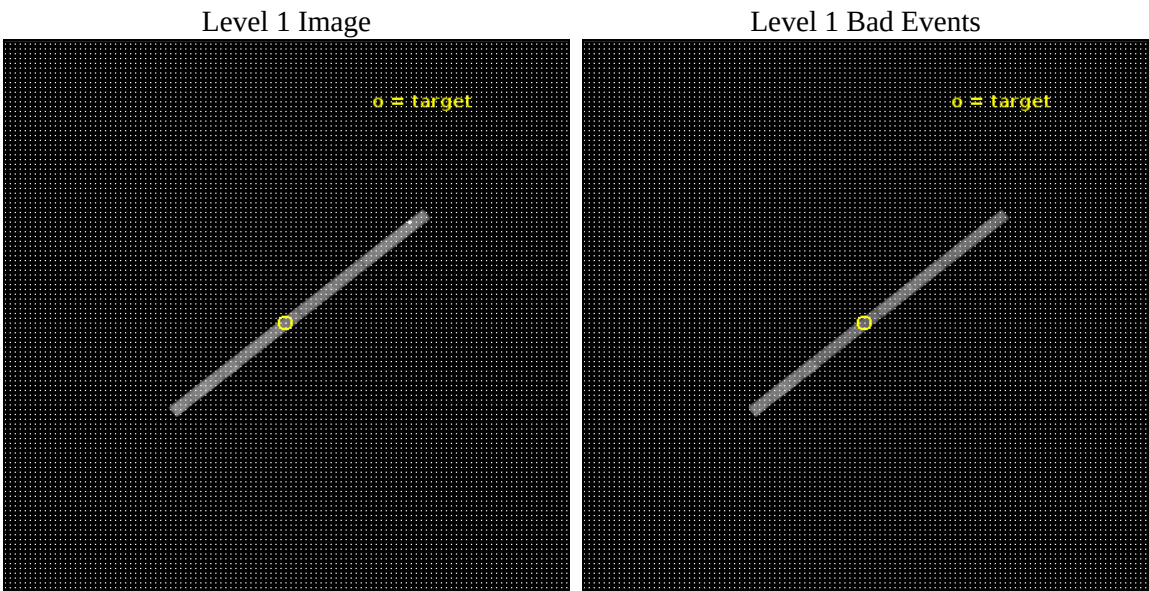
seq_num	402037	Sequence number
obs_id	21204	Observation id
title	Following a black hole X-ray transient through the transition into quiescence	Proposal title
observer	Elena Gallo	Principal investigator
object	MAXI J1820+070	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	275.09125	Observer's specified target RA [deg]
dec_targ	7.185361	Observer's specified target Dec [deg]
ra_nom	275.08953527216	Nominal RA [deg]
dec_nom	7.1832956590137	Nominal Dec [deg]
roll_nom	140.86942604817	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30087.601195693	Sum of GTIs [s]
livetime	28161.363904617	Livetime [s]
ontime5	30087.601195693	Sum of GTIs [s]
ontime6	30087.601195693	Sum of GTIs [s]
ontime7	30087.601195693	Sum of GTIs [s]
ontime8	30087.601195693	Sum of GTIs [s]
l2events	50507	Number of level 2 events



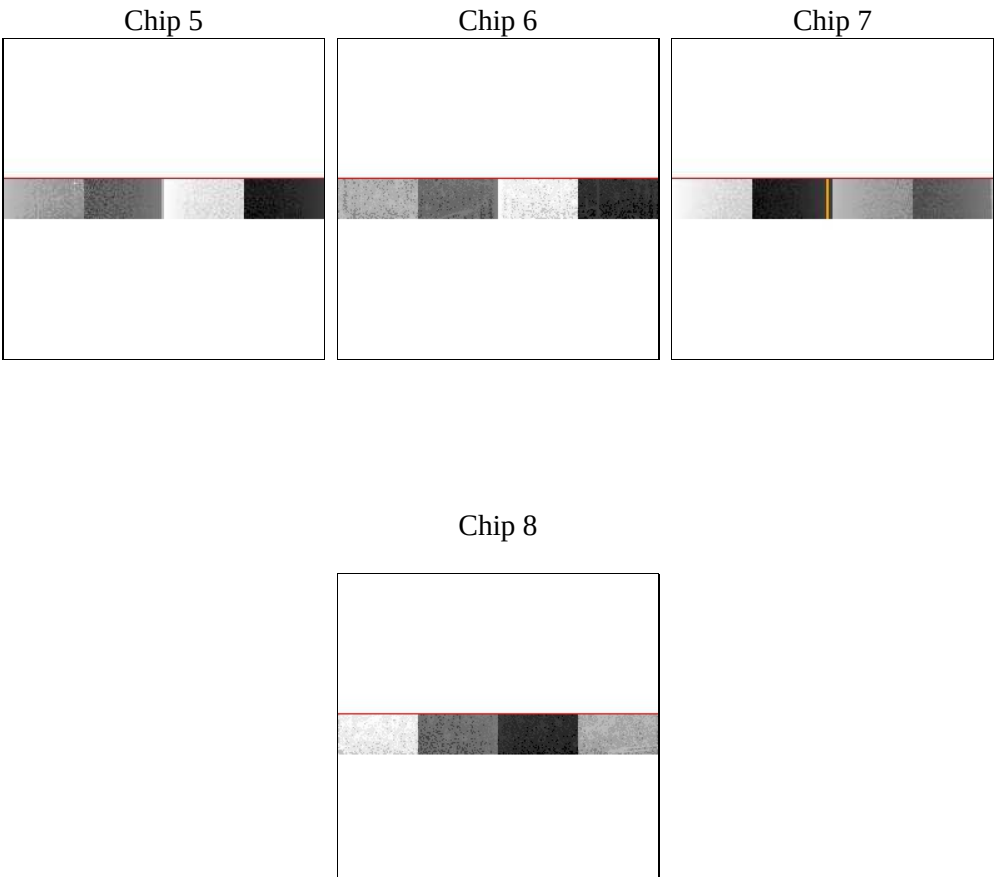
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	30087.601195693	Sum of GTIs [s]
caldbver	4.8.3	 	ontime5	30087.601195693	Sum of GTIs [s]
date	2019-06-03T06:05:12	Date and time of file creation	ontime6	30087.601195693	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	30087.601195693	Sum of GTIs [s]
			ontime8	30087.601195693	Sum of GTIs [s]
			l1events	234899	Number of level 1 events

2.1.4 Events

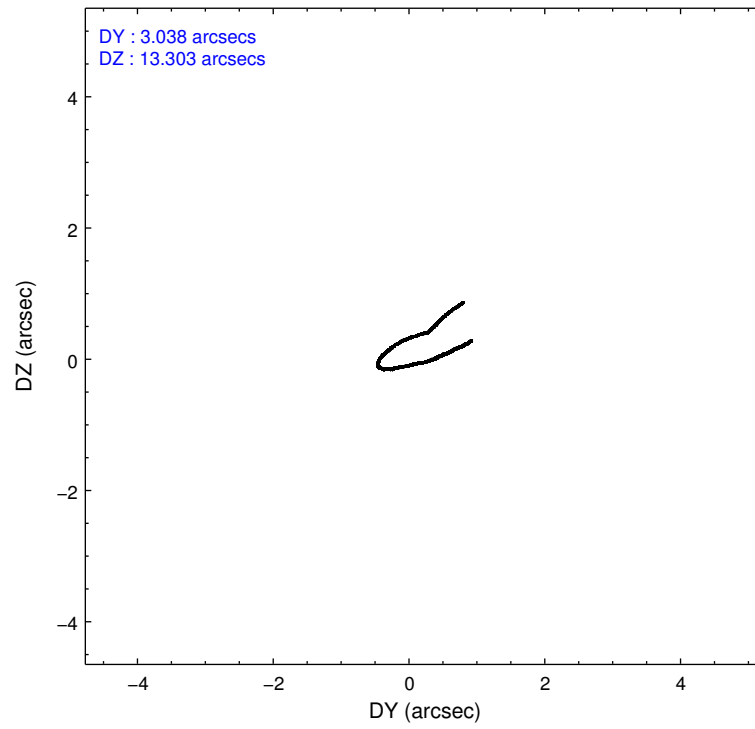
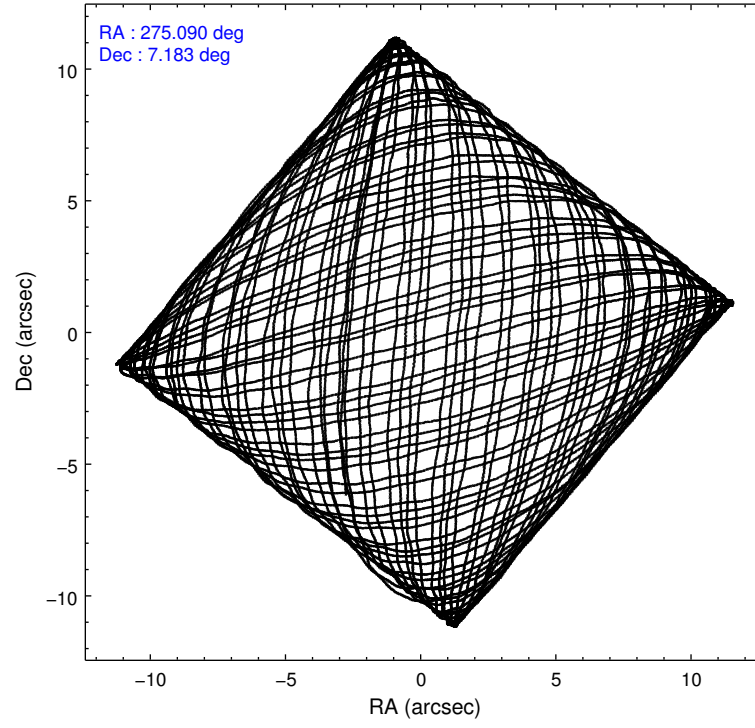
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	96739	38548	43516	56096
rejected events	25967	34250	23074	43171
rejected %	26%	88%	53%	76%

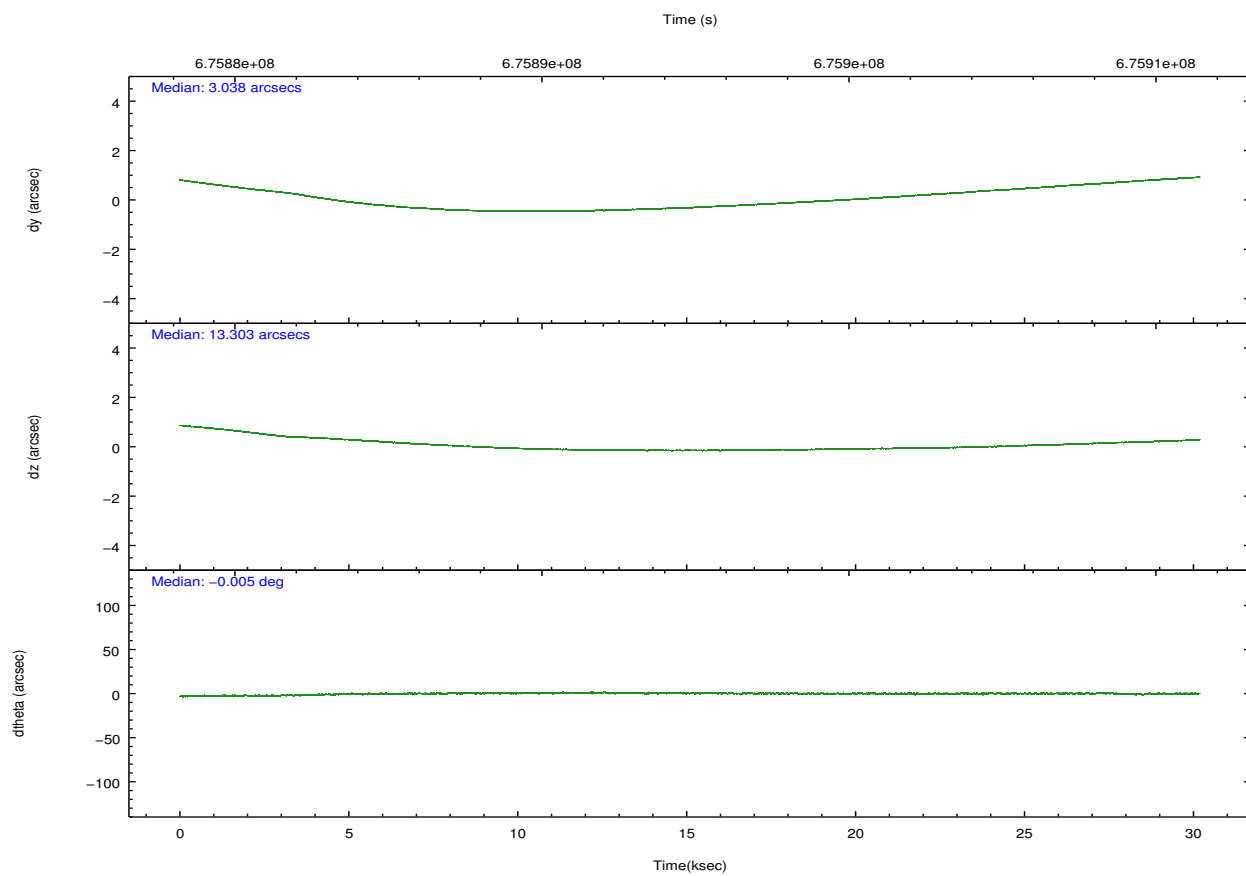
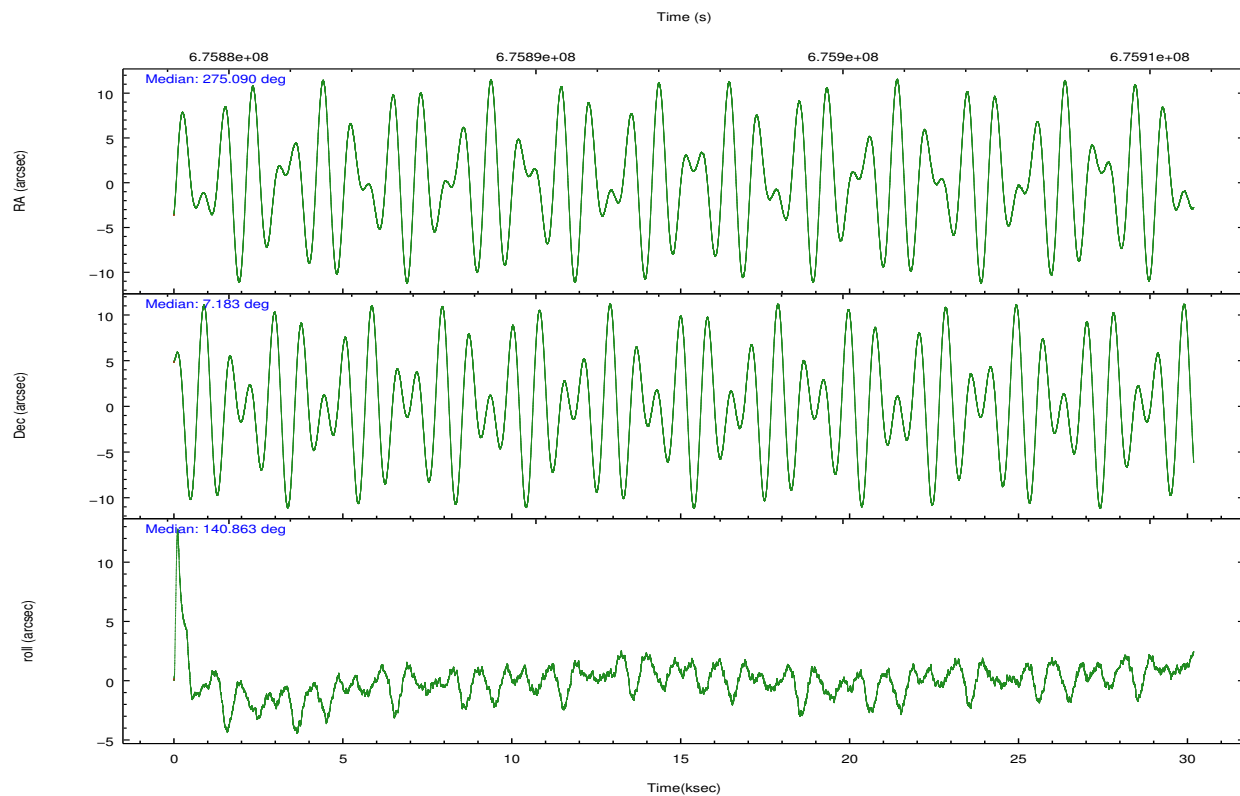
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	22917	1146	2166	2996
	23%	2%	4%	5%
grade 1 events	229	10	63	26
	0%	0%	0%	0%
grade 2 events	31587	779	4262	2778
	32%	2%	9%	4%
grade 3 events	1417	705	2339	1488
	1%	1%	5%	2%
grade 4 events	1523	779	2302	1478
	1%	2%	5%	2%
grade 5 events	3863	1465	4331	2163
	3%	3%	9%	3%
grade 6 events	13329	889	9373	4185
	13%	2%	21%	7%
grade 7 events	21874	32775	18680	40982
	22%	85%	42%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	275.116903	275.0895352721632	CCD I2 on	N	N
[deg] Pointing Dec	7.179287	7.183295659013684	CCD I3 on	N	N
[deg] Pointing Roll	140.709383	140.8694260481743	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	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)	675879901.184000	675878853.87617	CCD S5 on	O1	N
Observation start date	2019-06-02T16:23:52	2019-06-02T16:07:33	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	675909901.184000	675910951.75309	On-chip summing requested	N	N
Observation end date	2019-06-03T00:43:52	2019-06-03T01:02:31	Subarray requested	CUSTOM	1/8
Read mode	TIMED	TIMED	Subarray start row	449	449
			Subarray row count	128	128
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0.6

2.3 Aspect



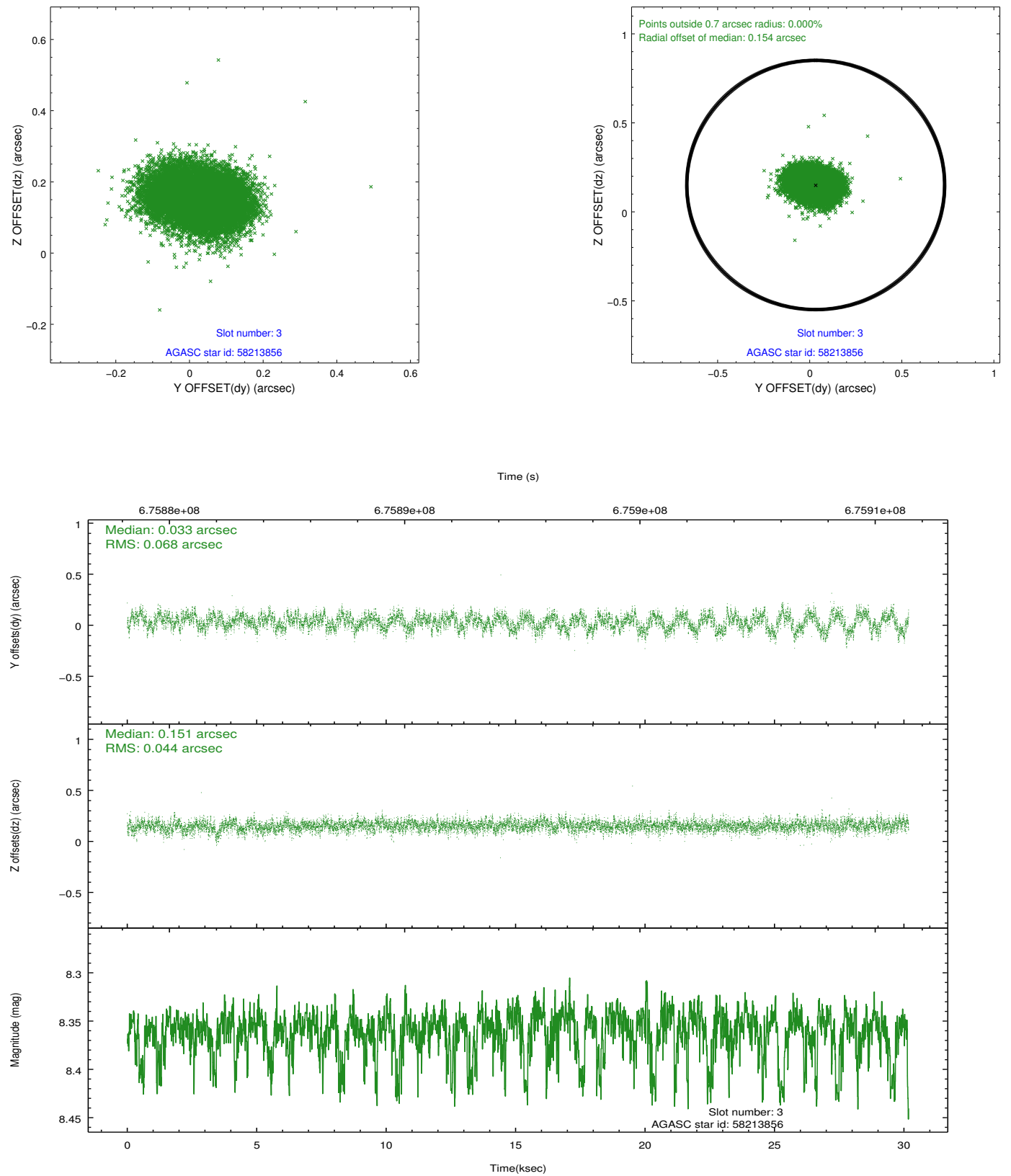


Slot Statistics

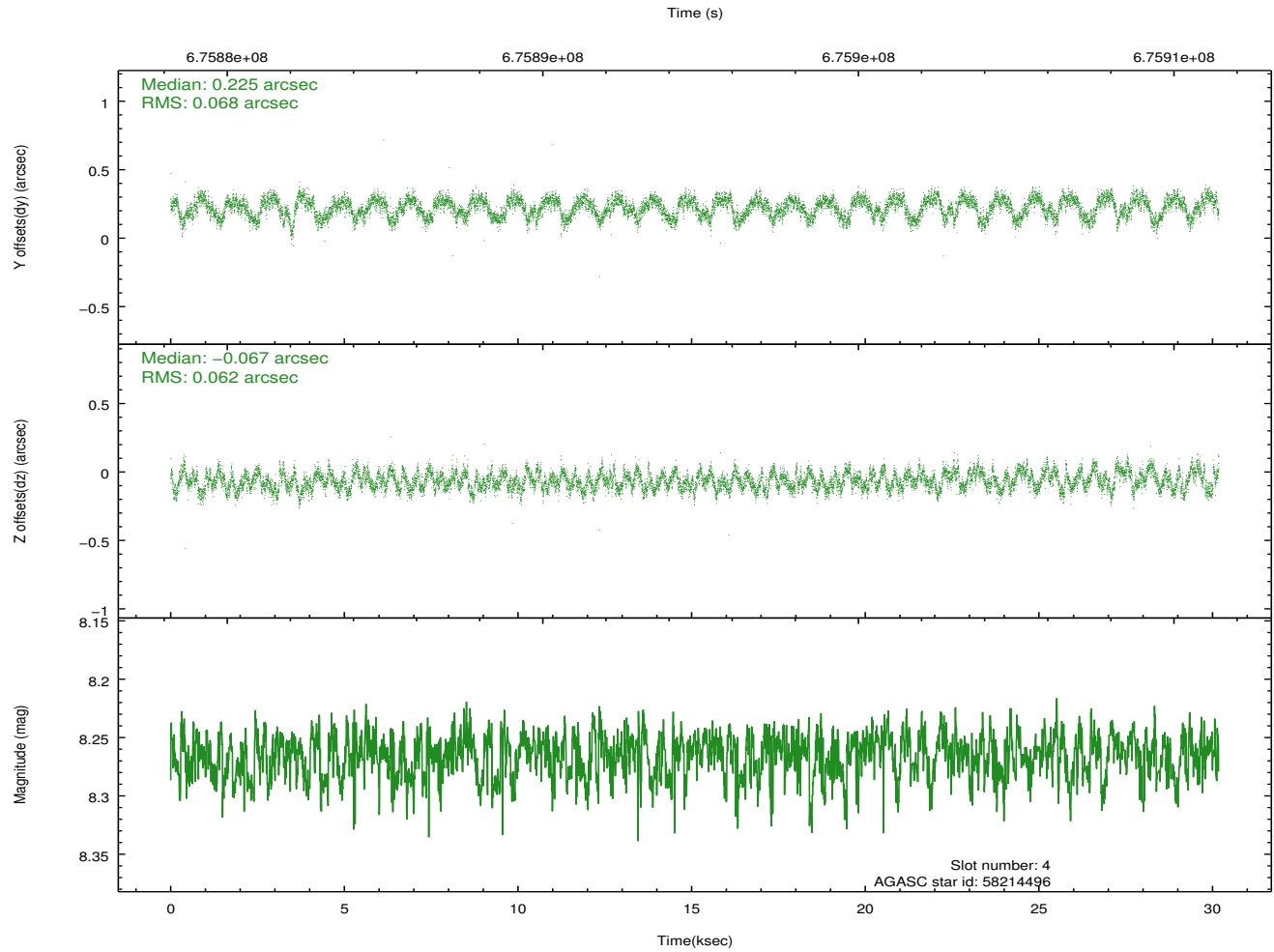
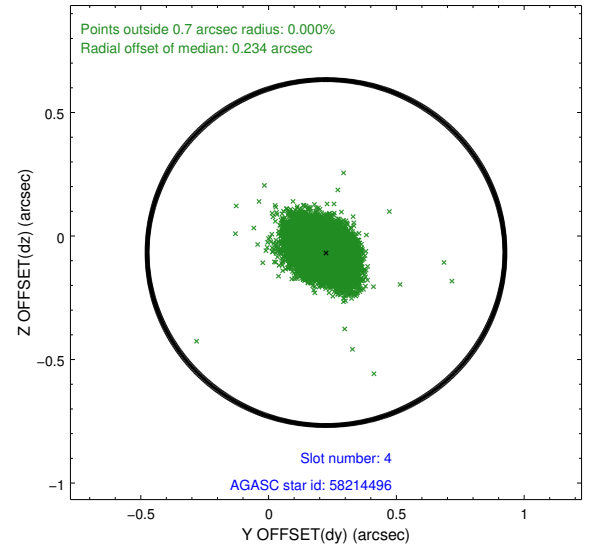
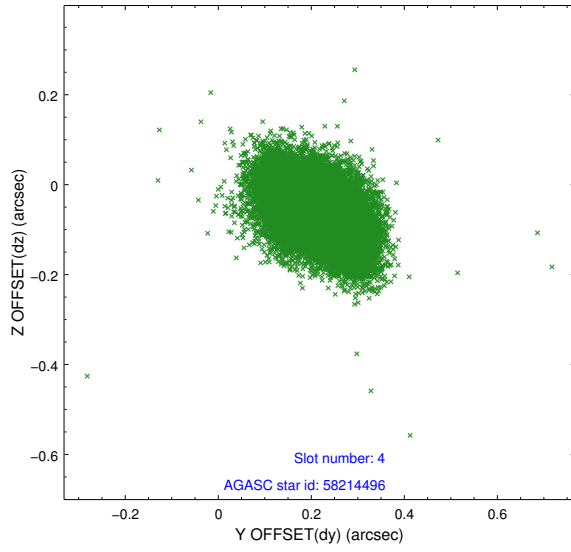
id	status	used	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		6.99	7360	1.000	-0.202	-0.090	0.010	0.017	0.000000	0.000000	-755.94	-1734
1	FID		7.11	7362	1.000	0.487	0.122	0.015	0.035	0.000000	0.000000	2157.98	173
2	FID		7.11	7362	1.000	-0.318	-0.024	0.016	0.025	0.000000	0.000000	-1808.83	167
3	GUIDE	used	8.36	14713	1.000	0.033	0.151	0.086	0.140	275.612553	7.226303	-1261.75	-1252
4	GUIDE	used	8.26	14718	1.000	0.225	-0.067	0.098	0.154	275.424971	7.408800	-327.12	-1335
5	GUIDE	used	7.57	14653	1.000	-0.262	-0.357	0.067	0.115	275.048740	7.069088	-62.74	461
6	GUIDE	used	6.71	14725	1.000	-0.042	0.221	0.071	0.132	275.704454	7.206741	-1560.25	-1405
7	GUIDE	used	7.33	14723	1.000	0.051	0.056	0.075	0.124	275.575114	7.548927	-421.14	-2063

2.4 Star Slots

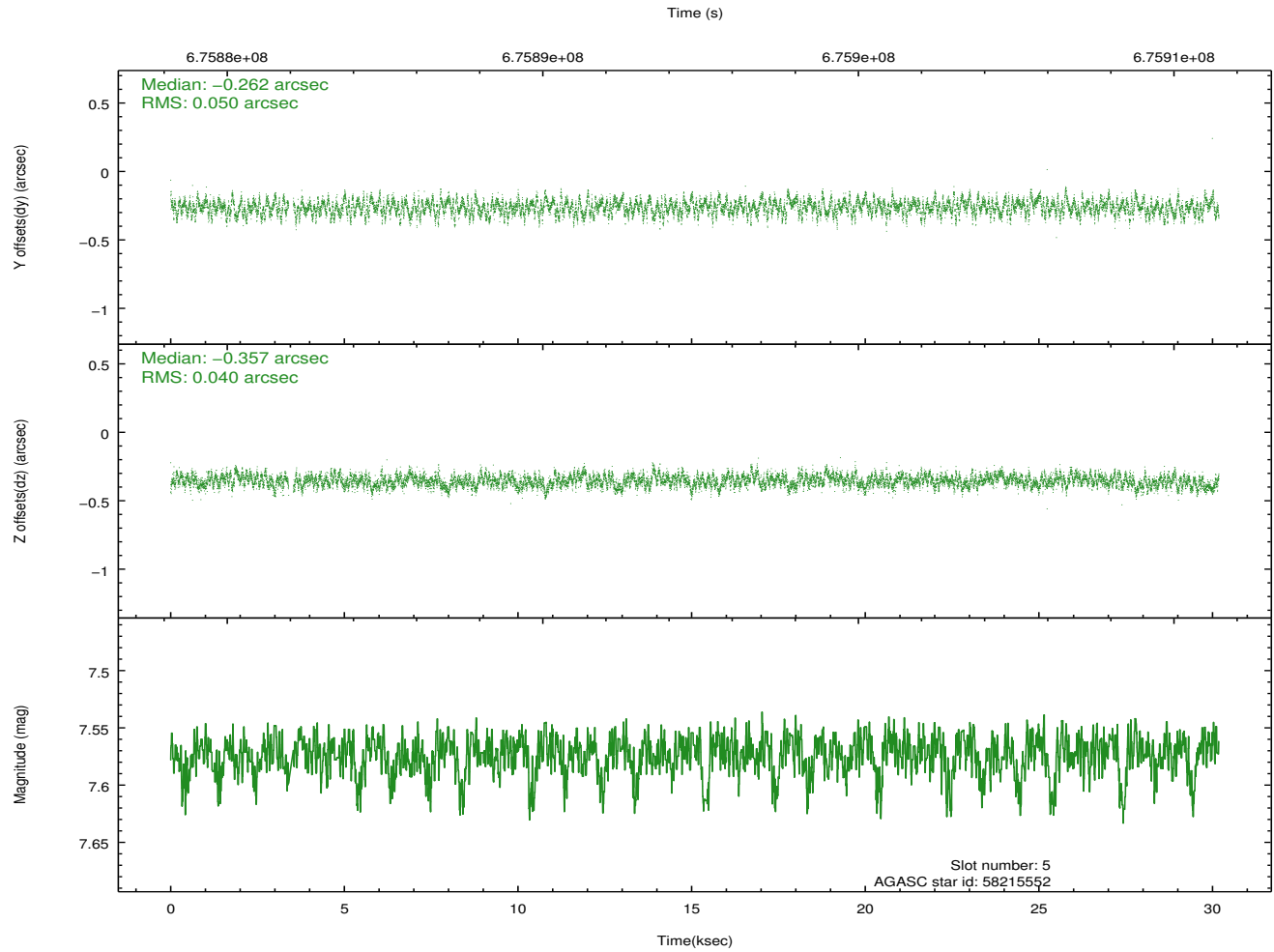
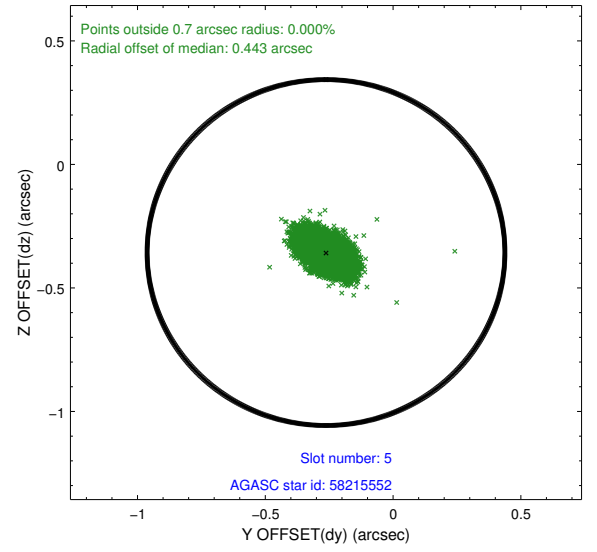
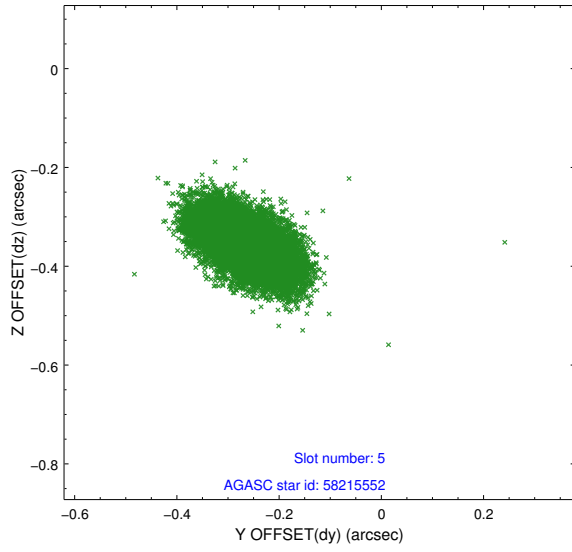
2.4.1 Slot 3



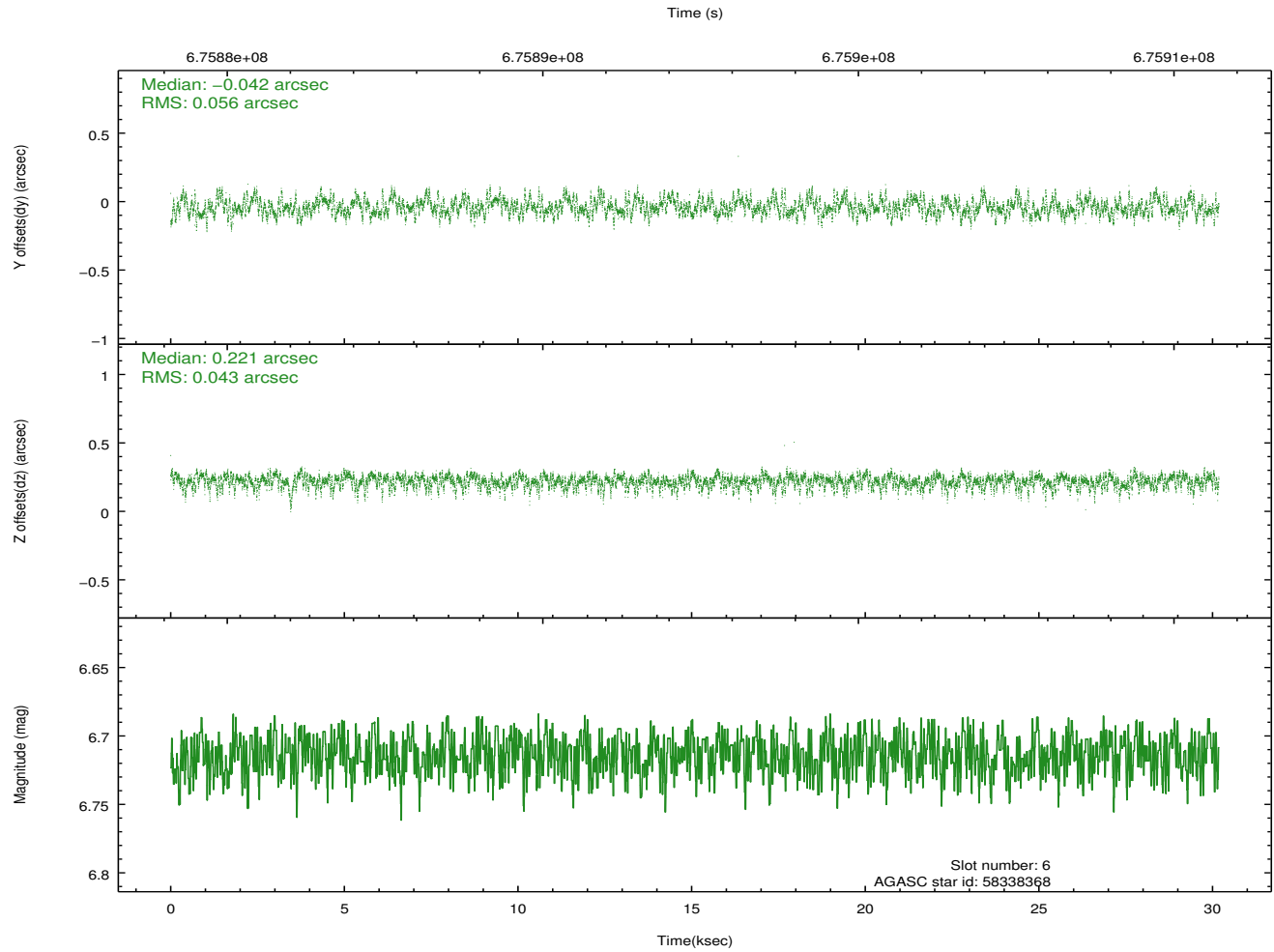
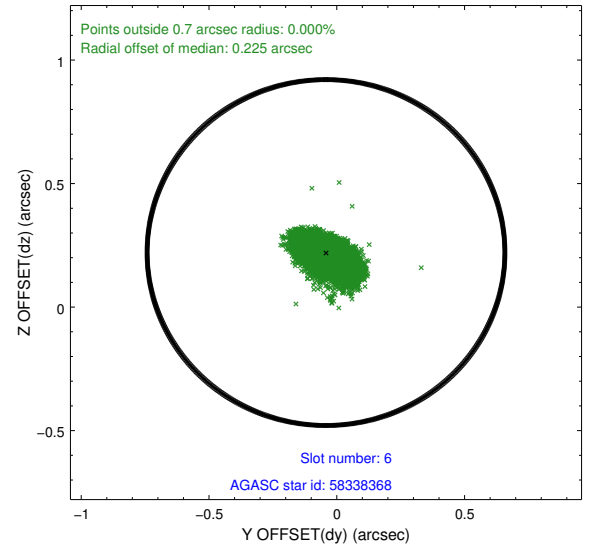
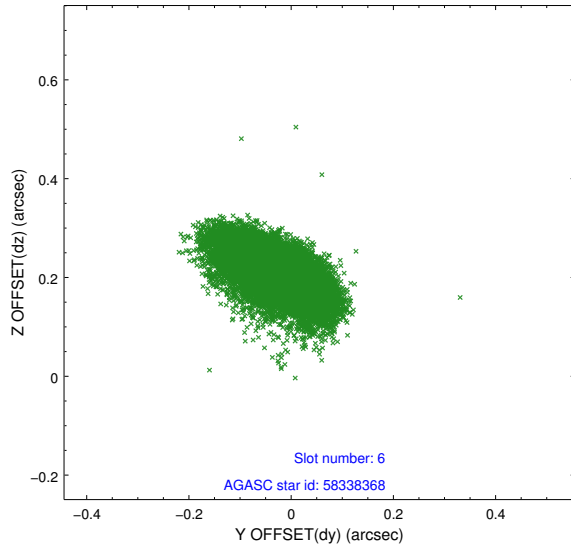
2.4.2 Slot 4



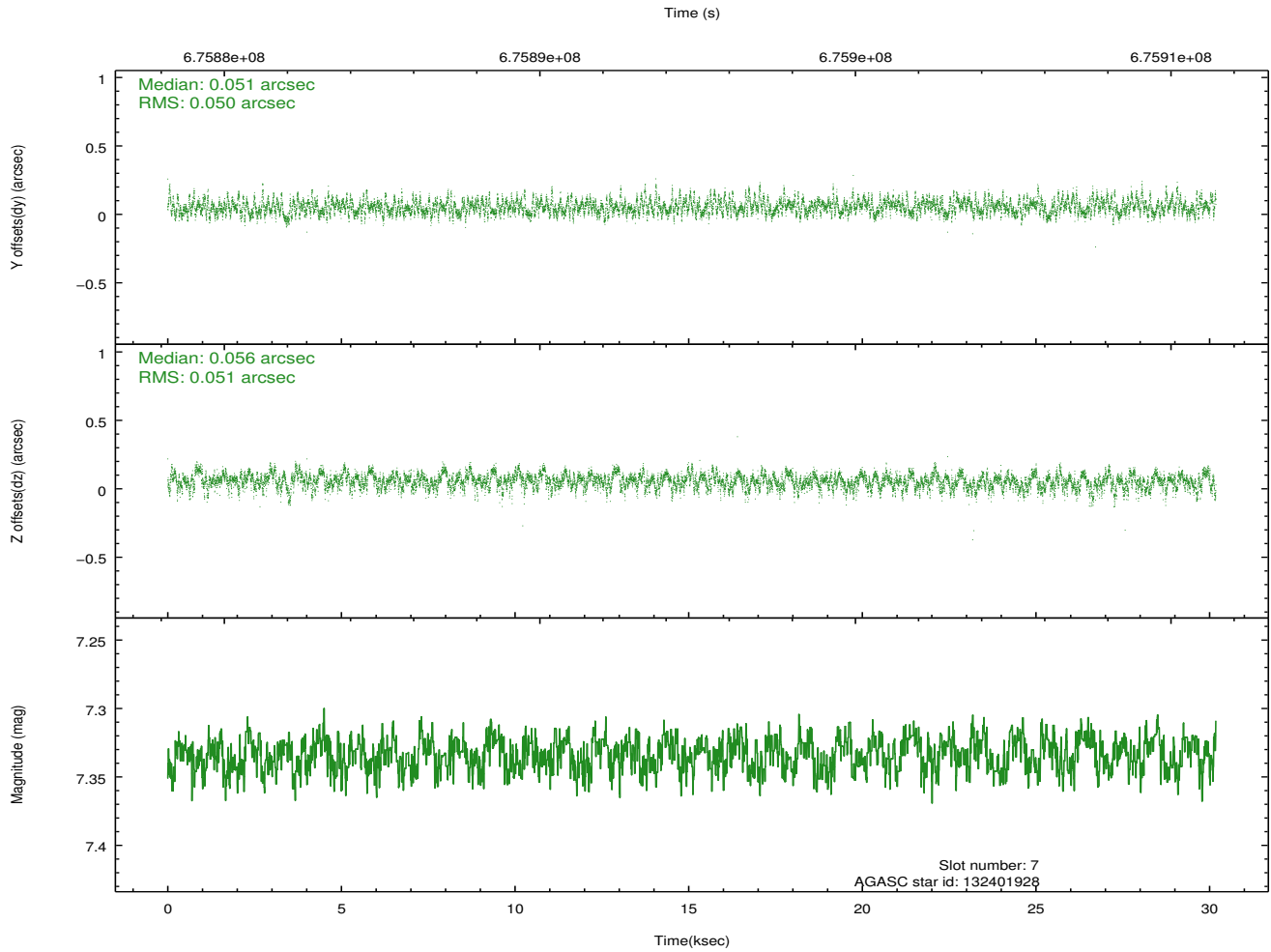
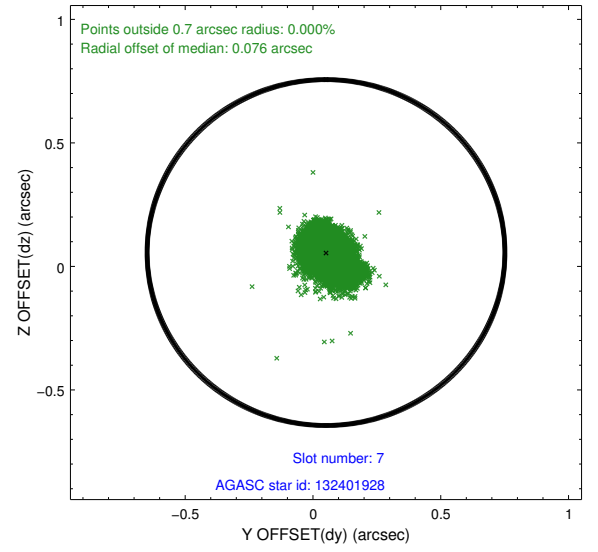
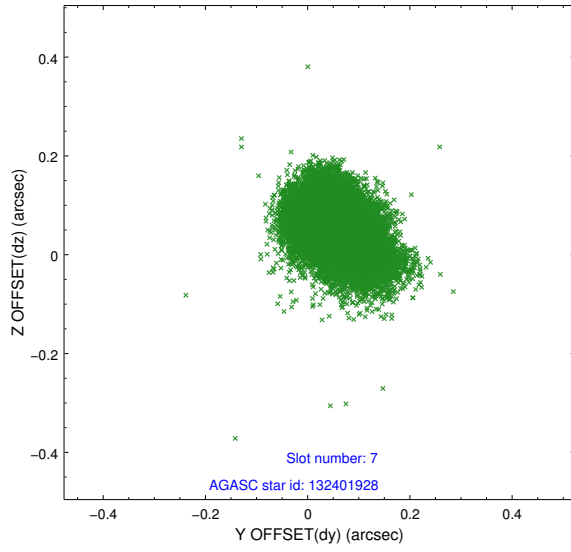
2.4.3 Slot 5



2.4.4 Slot 6

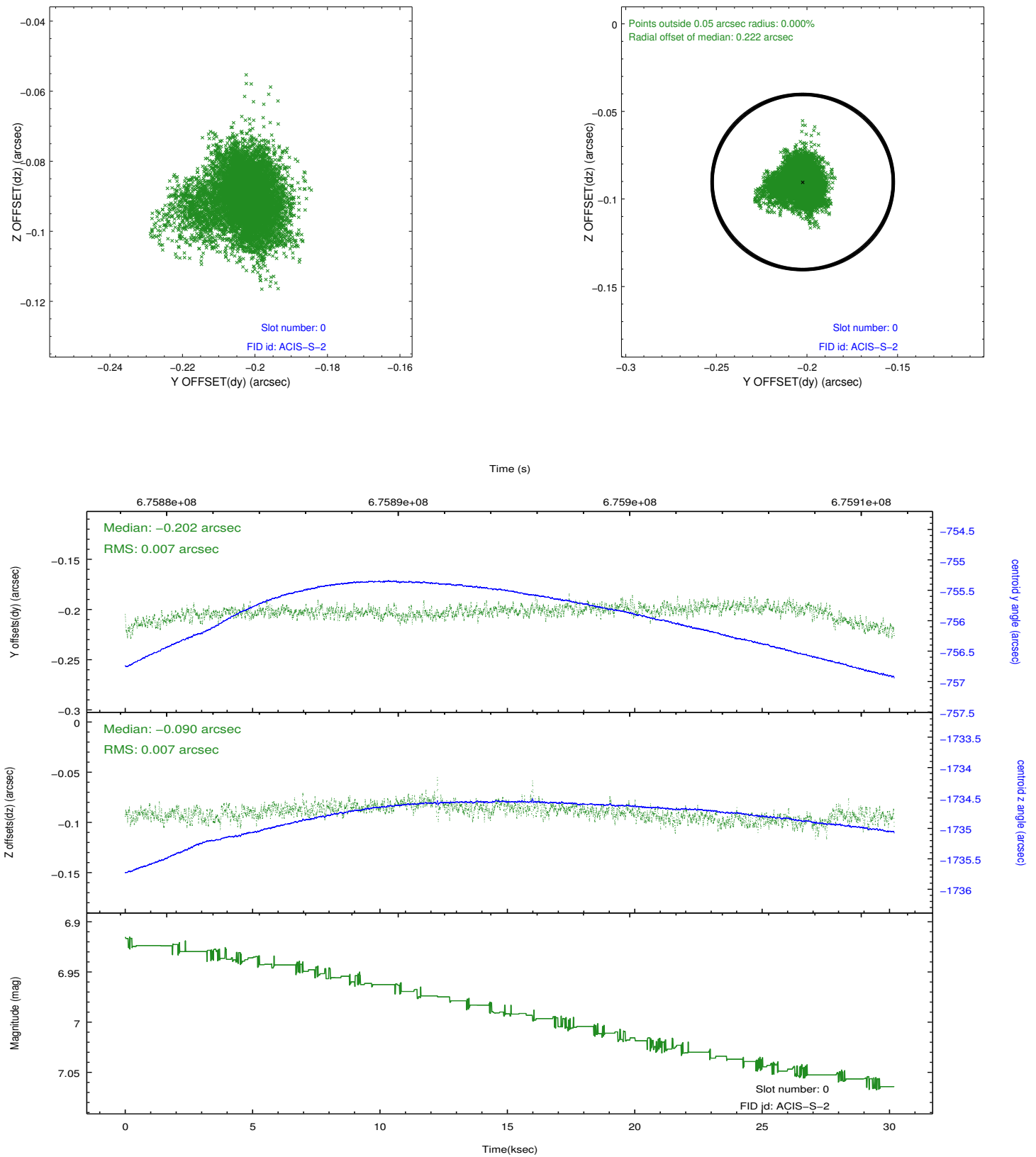


2.4.5 Slot 7

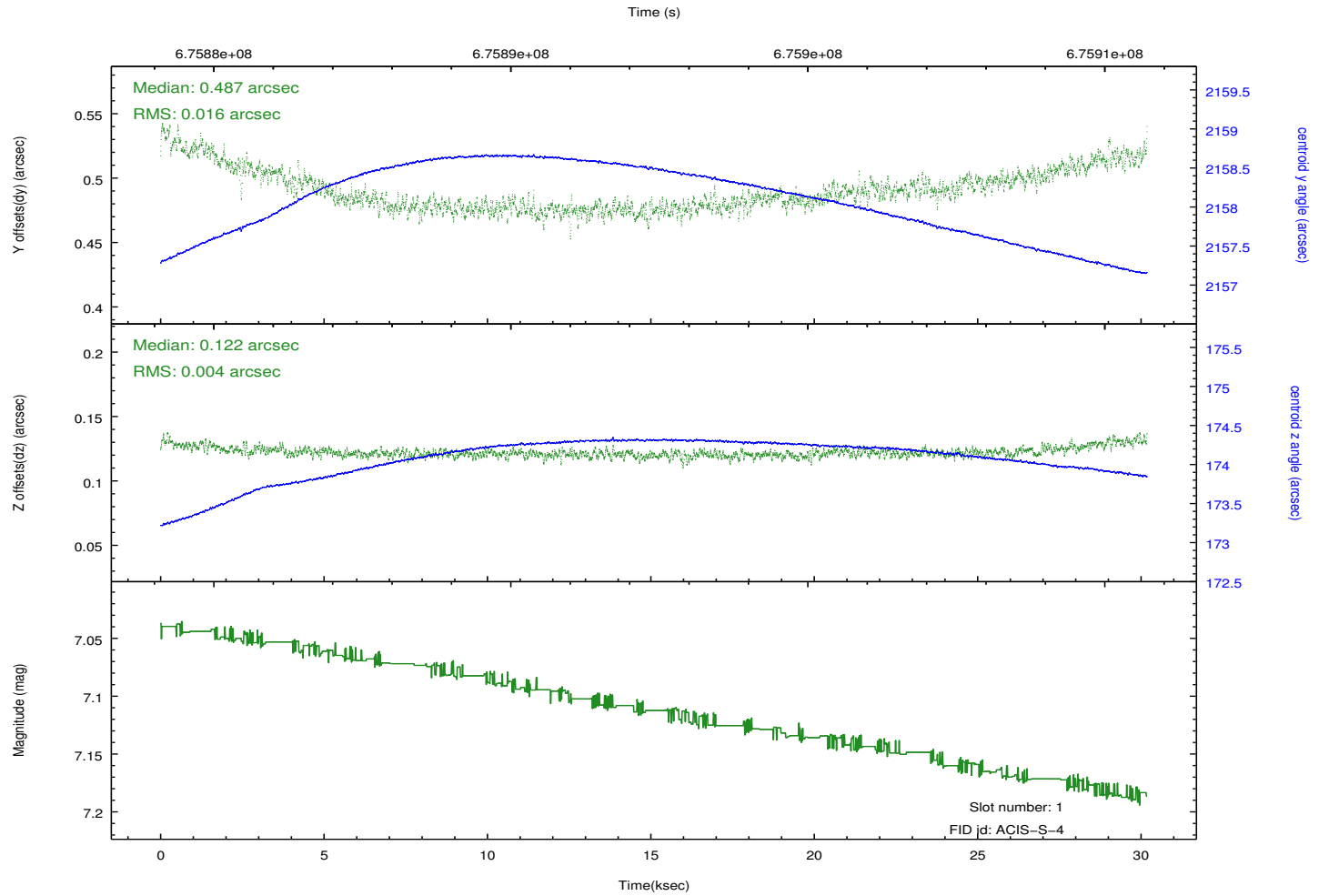
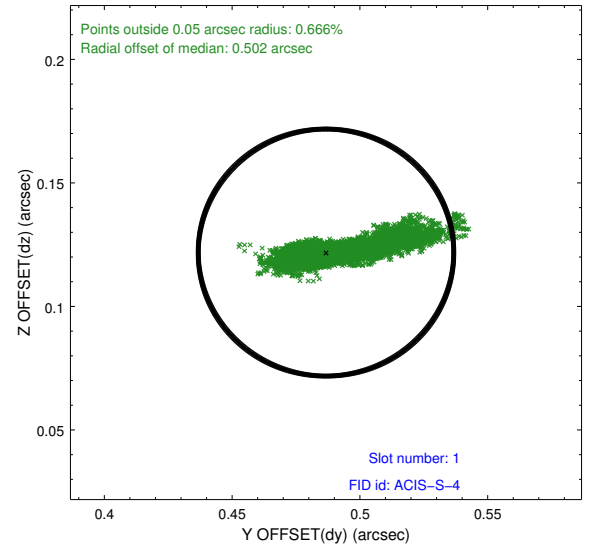
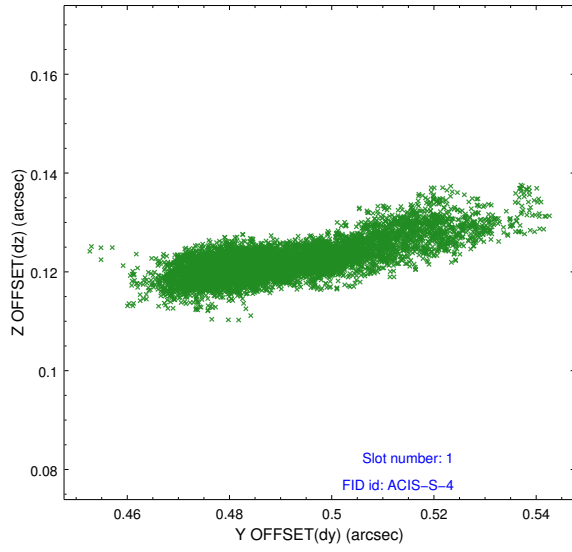


2.5 FID Slots

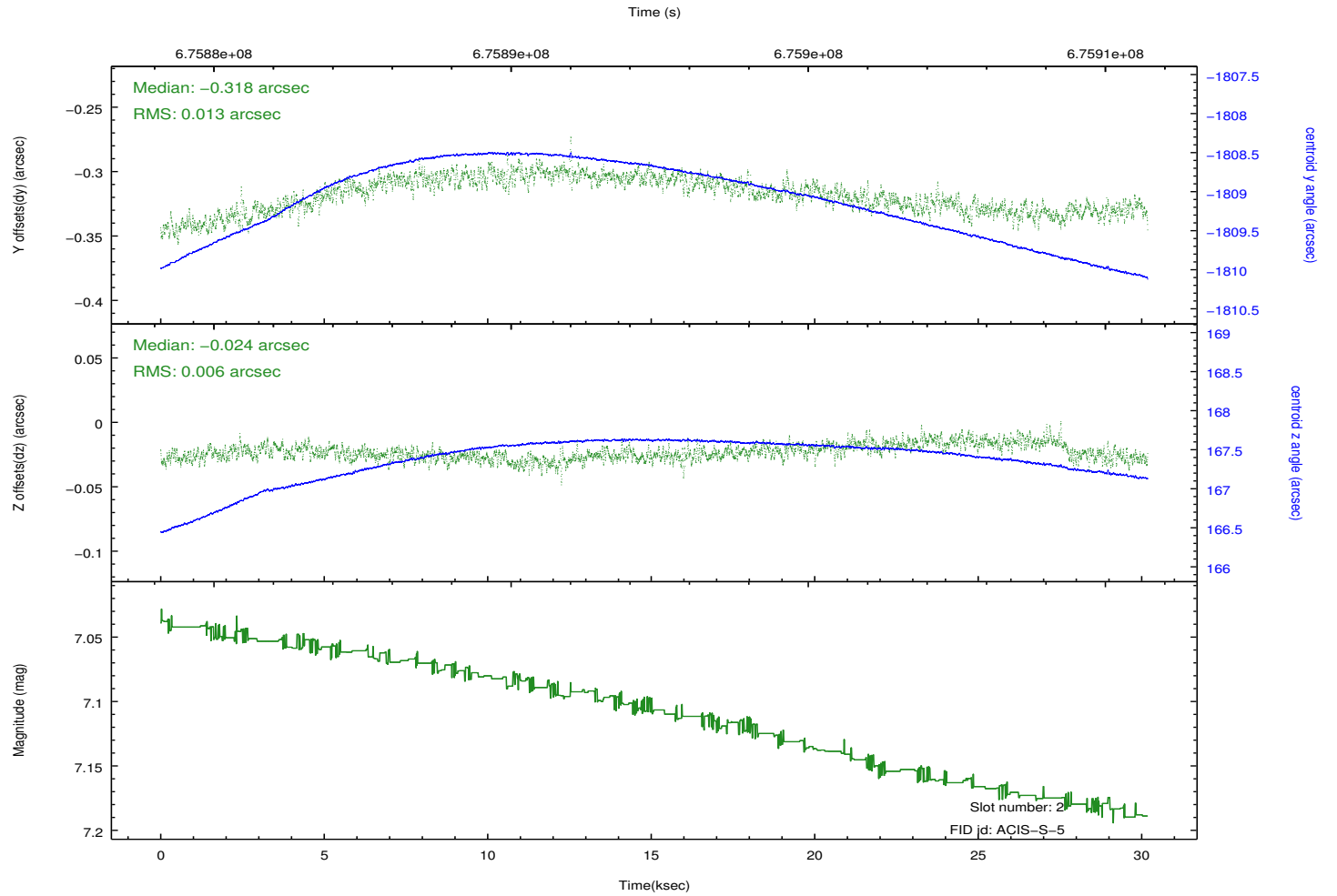
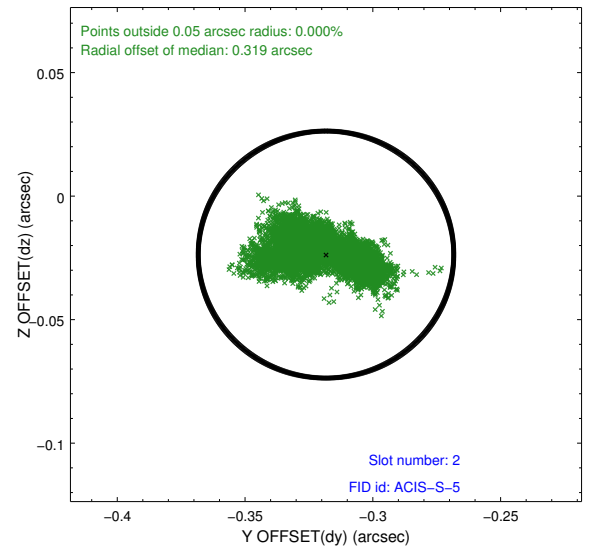
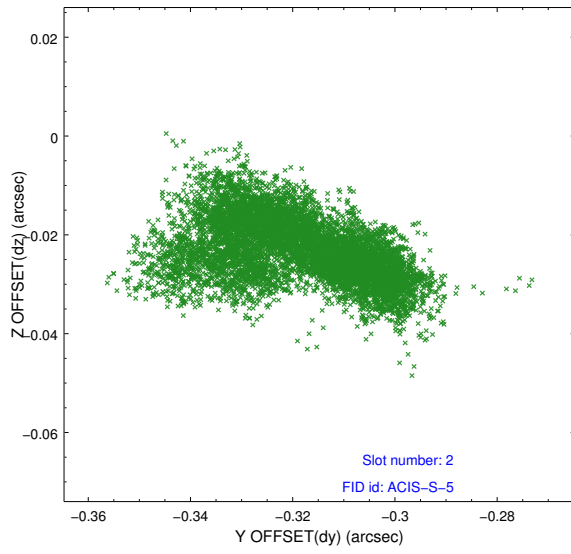
2.5.1 Slot 0



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)	2019.06.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.087601195693

A.2 Comments