

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 21293 - L2 Version 1
Chandra X-Ray Center

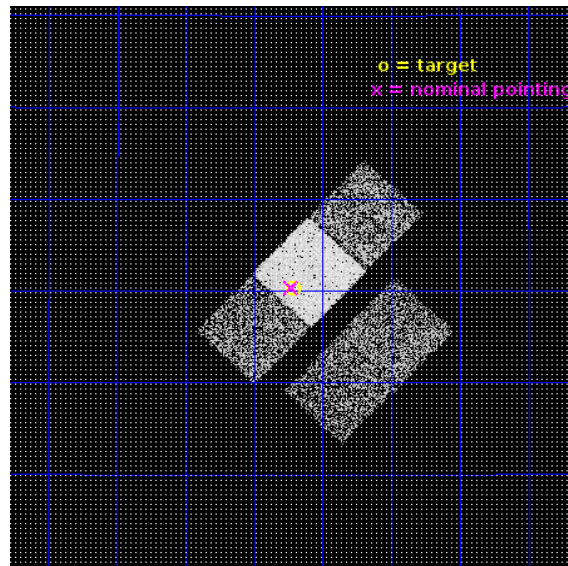
L2 Processing Date : Nov 25 2018

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1 Front

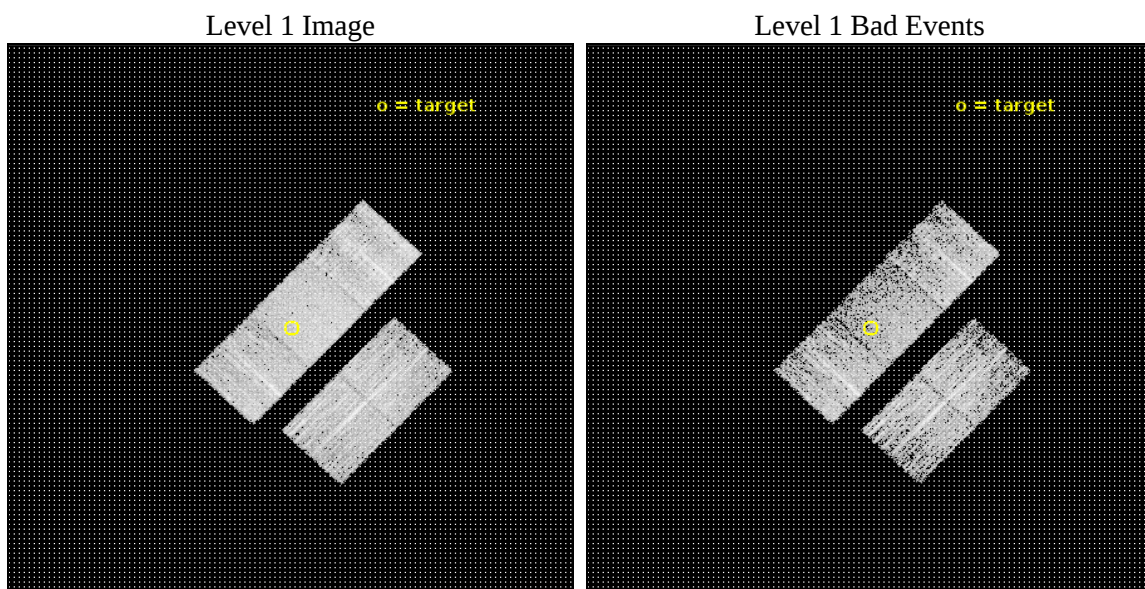
seq_num	503066	Sequence number
obs_id	21293	Observation id
title	Where Have All the Central Compact Objects Gone?	Proposal title
observer	Eric Gotthelf	Principal investigator
object	PSR J1838+1650	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	279.679167	Observer's specified target RA [deg]
dec_targ	16.837778	Observer's specified target Dec [deg]
ra_nom	279.68194284991	Nominal RA [deg]
dec_nom	16.839240356072	Nominal Dec [deg]
roll_nom	313.45724303696	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3552.600027442	Sum of GTIs [s]
livetime	3506.1826926974	Livetime [s]
ontime2	3552.600027442	Sum of GTIs [s]
ontime3	3552.600027442	Sum of GTIs [s]
ontime6	3549.4590473175	Sum of GTIs [s]
ontime7	3552.600027442	Sum of GTIs [s]
ontime8	3552.600027442	Sum of GTIs [s]
l2events	25605	Number of level 2 events



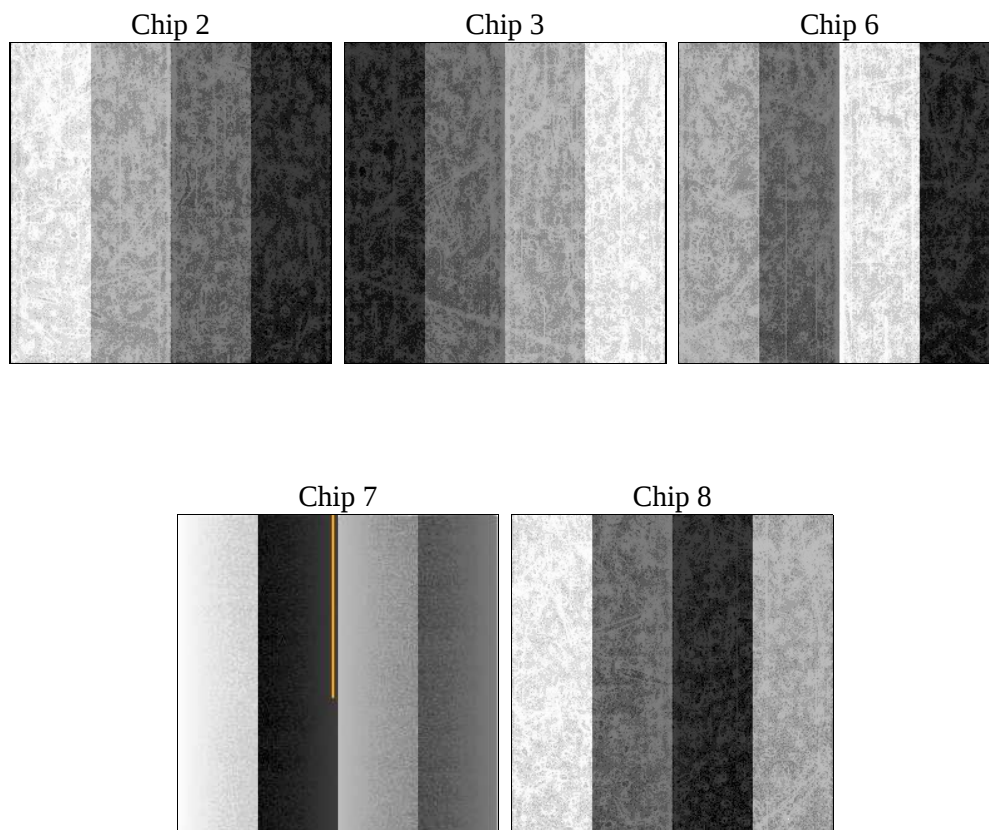
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	3552.600027442	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime2	3552.600027442	Sum of GTIs [s]
date	2018-11-25T21:04:22	Date and time of file creation	ontime3	3552.600027442	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3549.4590473175	Sum of GTIs [s]
			ontime7	3552.600027442	Sum of GTIs [s]
			ontime8	3552.600027442	Sum of GTIs [s]
			l1events	157511	Number of level 1 events

2.1.4 Events

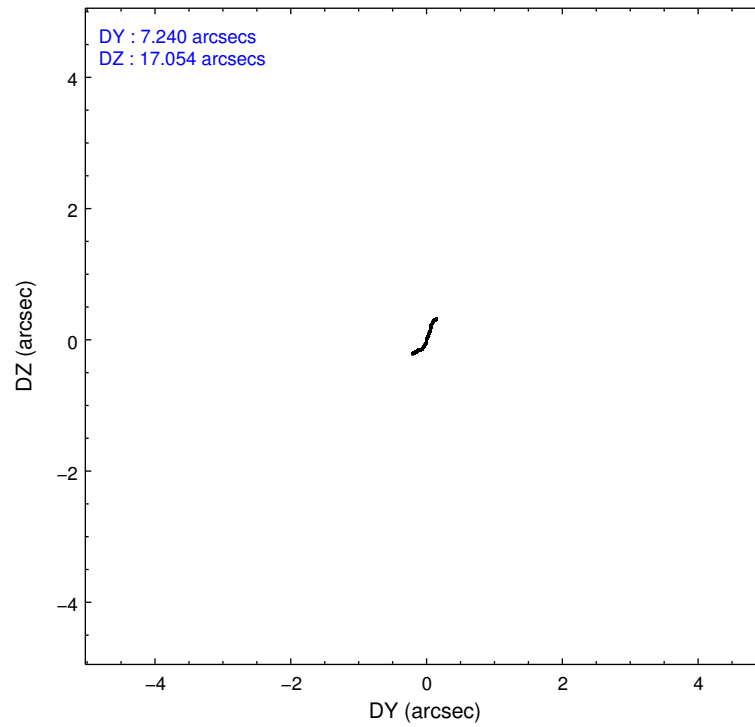
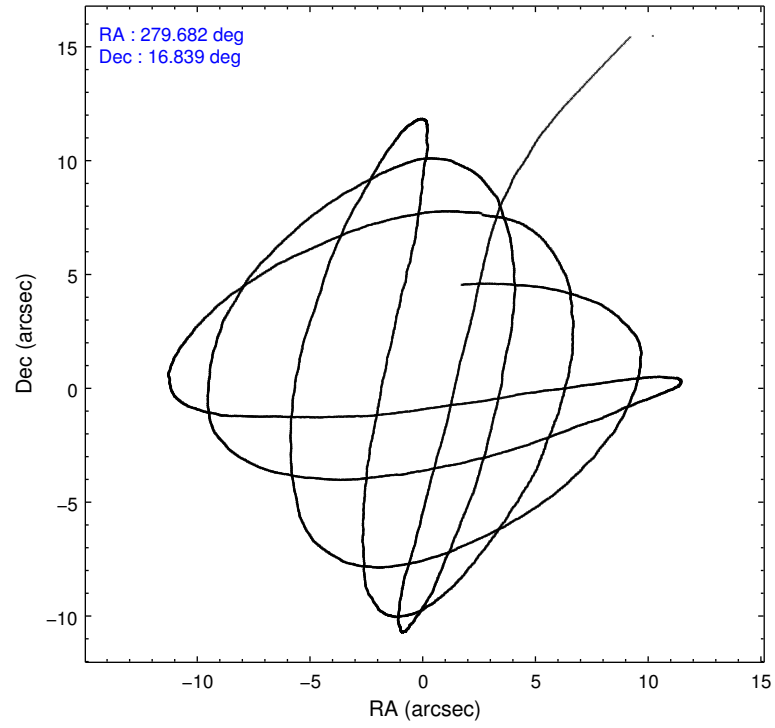
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	28942	27936	29467	34990	36176
rejected events	26137	25084	26305	19820	26361
rejected %	90%	89%	89%	56%	72%

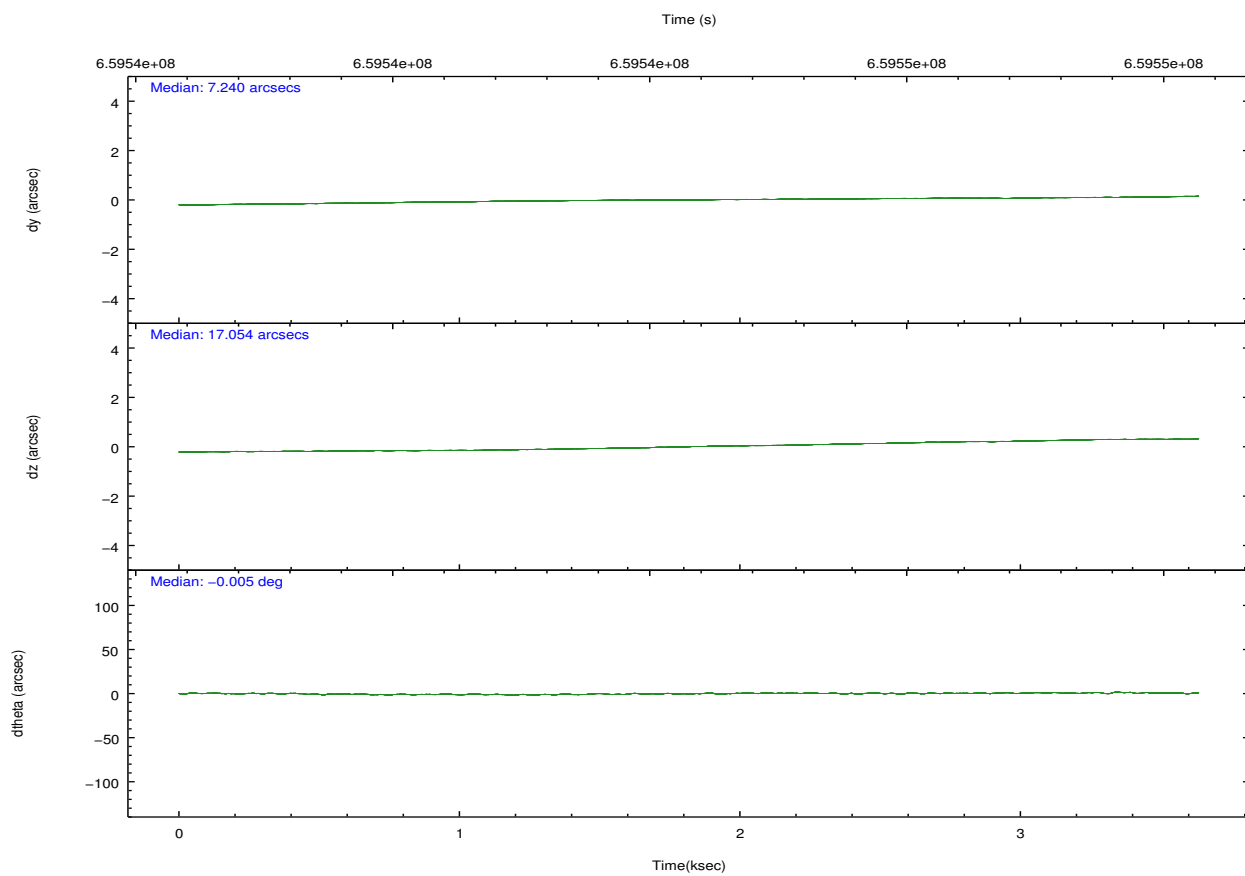
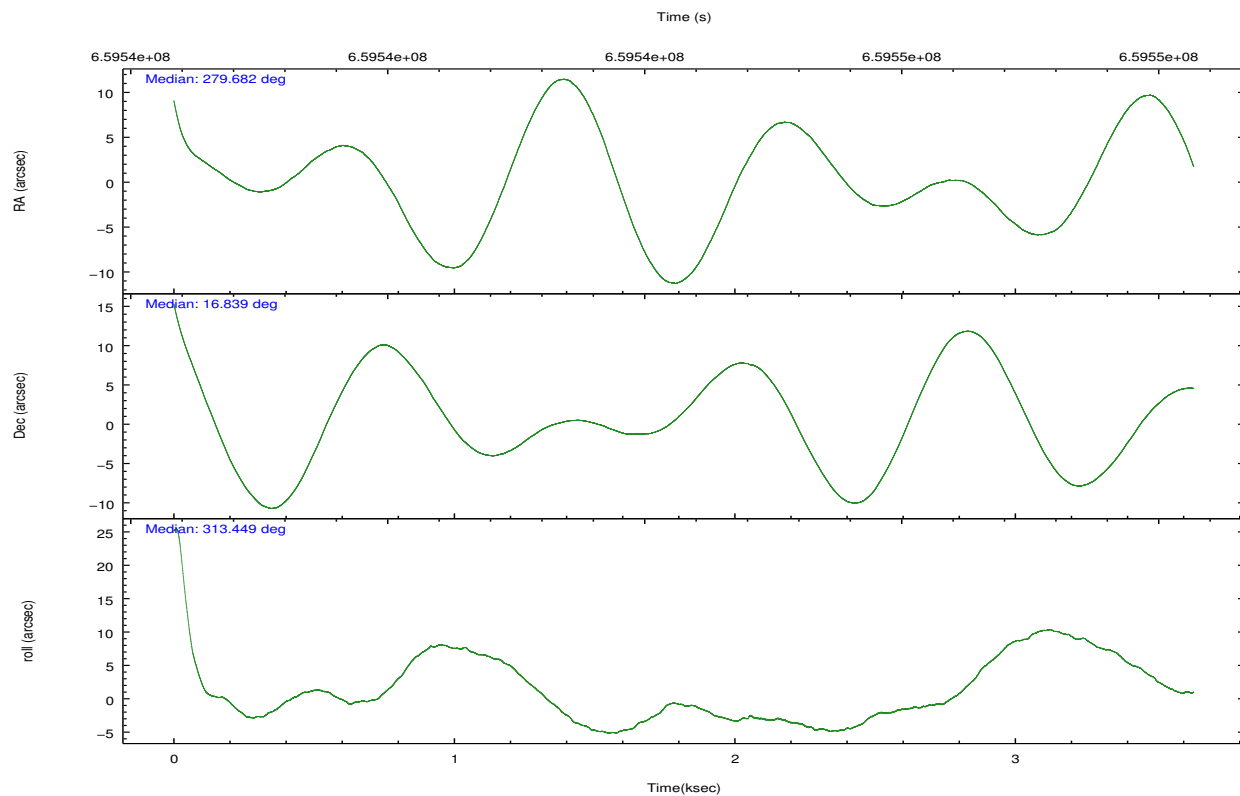
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1015	1038	1007	1235	2850
	3%	3%	3%	3%	7%
grade 1 events	11	12	15	56	21
	0%	0%	0%	0%	0%
grade 2 events	662	636	779	3177	2346
	2%	2%	2%	9%	6%
grade 3 events	279	291	309	1218	1008
	0%	1%	1%	3%	2%
grade 4 events	288	314	276	1165	948
	0%	1%	0%	3%	2%
grade 5 events	1052	1361	1241	3406	1907
	3%	4%	4%	9%	5%
grade 6 events	564	577	796	8399	2670
	1%	2%	2%	24%	7%
grade 7 events	25071	23707	25044	16334	24426
	86%	84%	84%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	279.654166	279.6819428499118	CCD I2 on	O1	Y
[deg] Pointing Dec	16.846783	16.8392403560719	CCD I3 on	O2	Y
[deg] Pointing Roll	313.308582	313.457243036959	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	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	659543459.184000	659542107.6996	CCD S5 on	N	N
Observation start date	2018-11-25T14:29:50	2018-11-25T14:08:27	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	659546959.184000	659547864.61245	On-chip summing requested	N	N
Observation end date	2018-11-25T15:28:10	2018-11-25T15:44:24	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



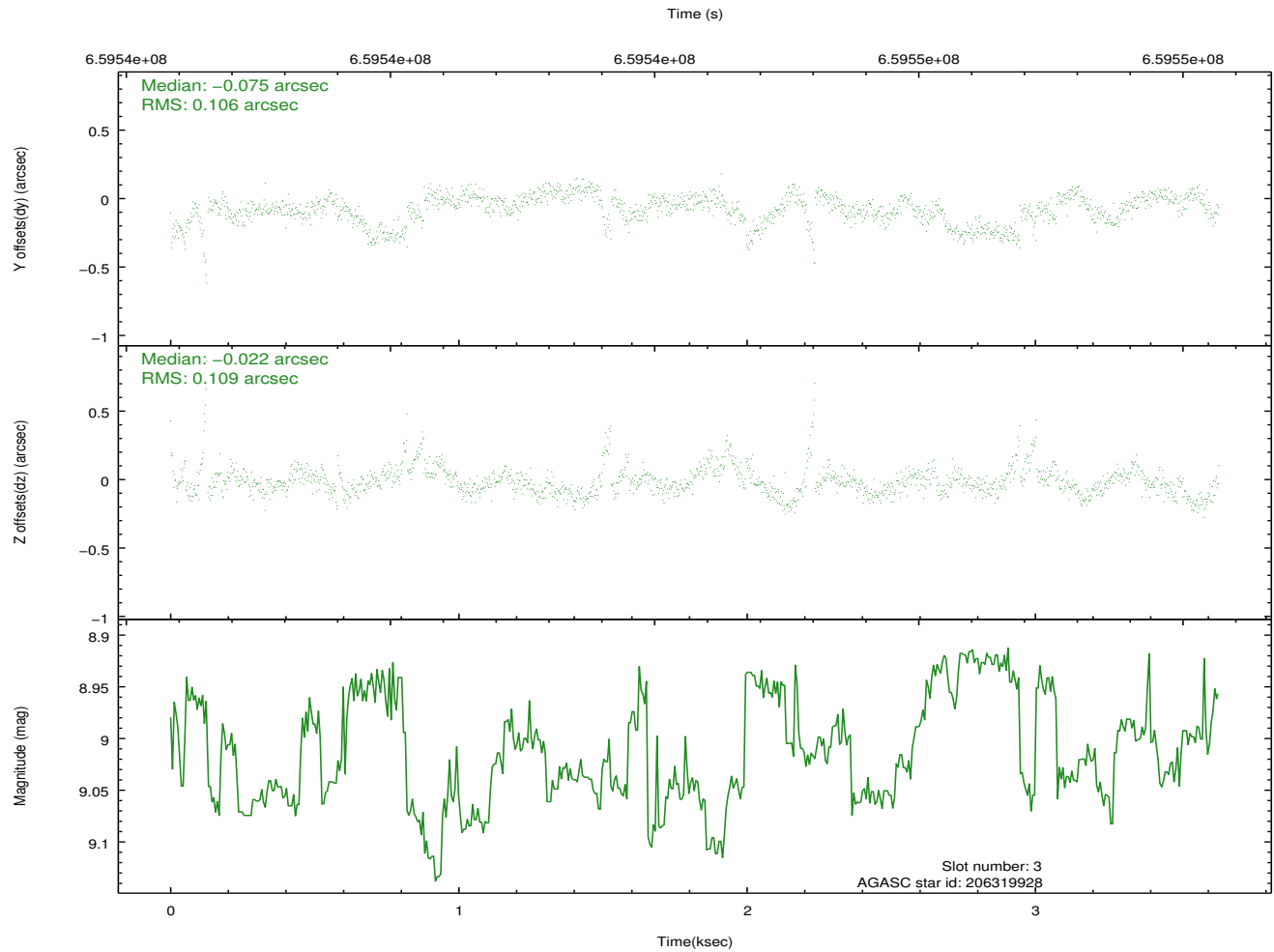
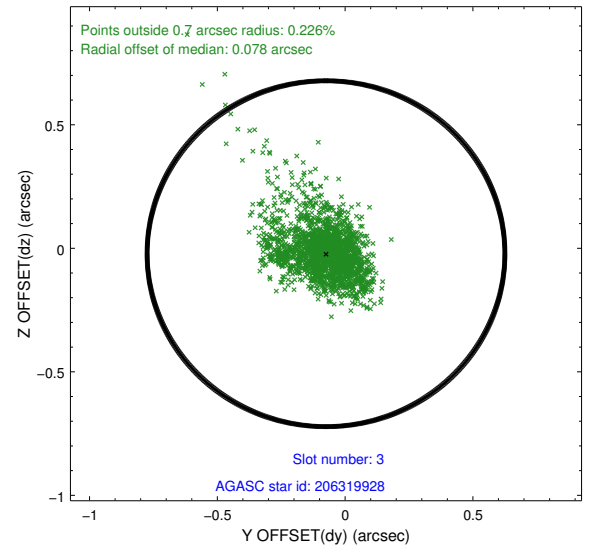
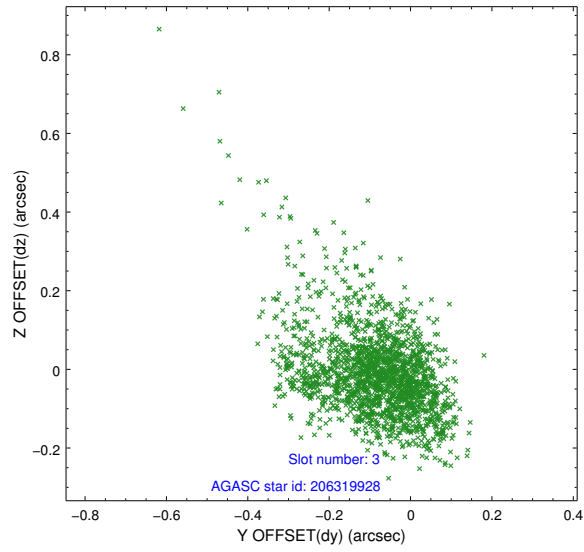


Slot Statistics

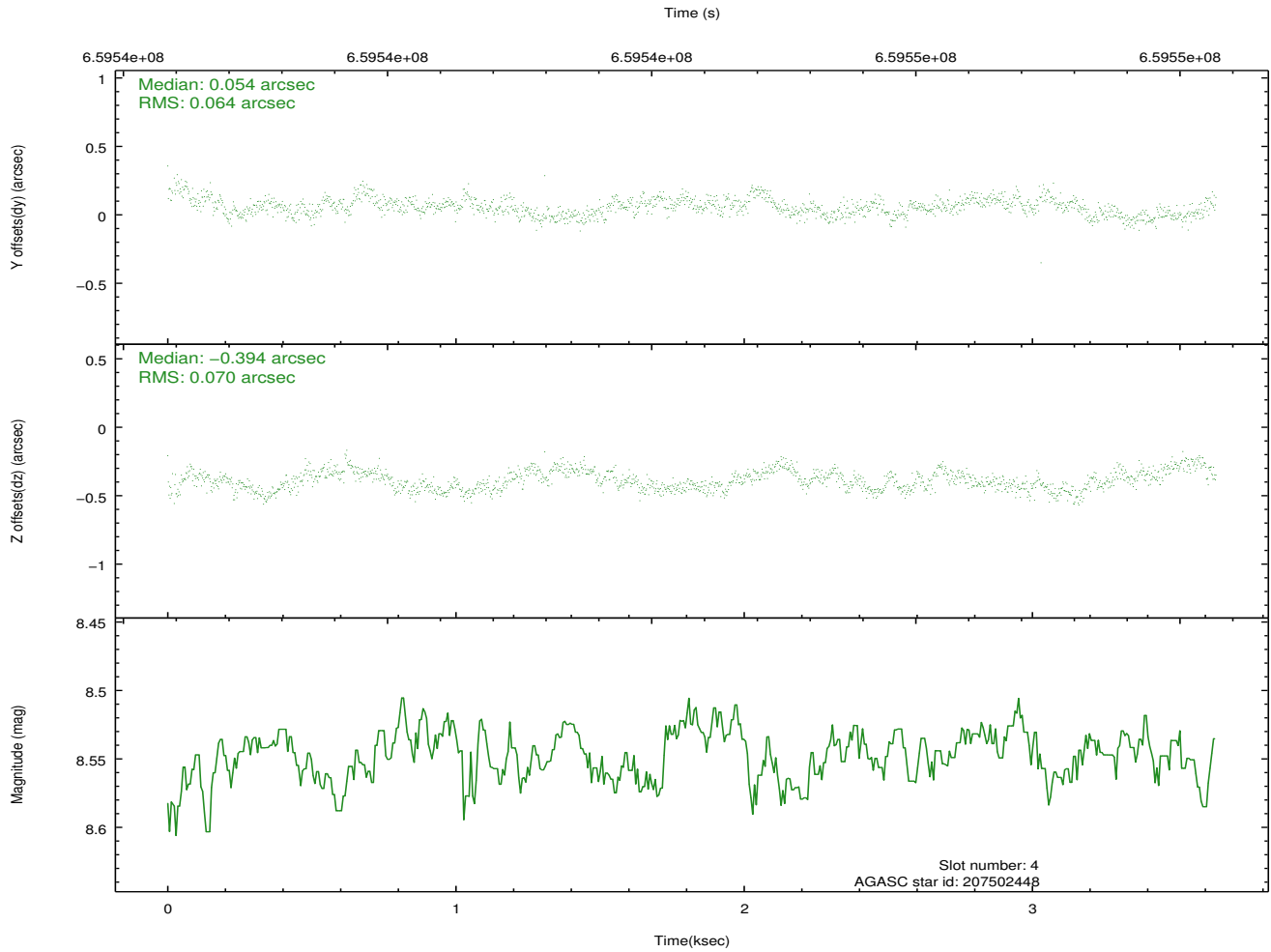
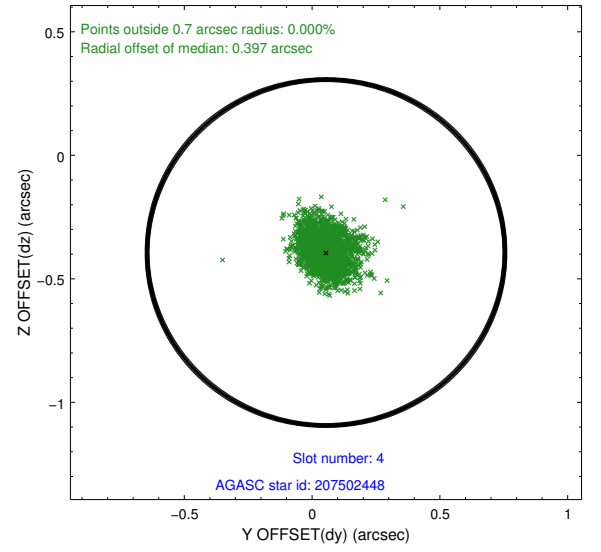
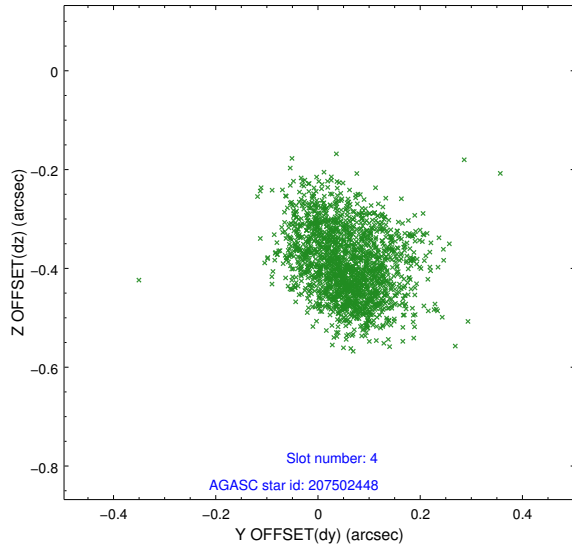
id	status	used	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.07	887	1.000	-0.262	-0.151	0.010	0.016	0.000000	0.000000	-760.21 -1738
1	FID		ACIS-S-4	7.20	887	1.000	0.566	0.167	0.006	0.010	0.000000	0.000000	2153.07 168
2	FID		ACIS-S-5	7.18	887	1.000	-0.334	-0.007	0.010	0.015	0.000000	0.000000	-1810.94 163
3	GUIDE	used	206319928	9.02	1772	1.000	-0.075	-0.022	0.145	0.262	279.677156	17.387641	-1363.07 1393
4	GUIDE	used	207502448	8.55	1772	1.000	0.054	-0.394	0.101	0.160	280.036811	16.558094	1659.61 250
5	GUIDE	used	205795832	8.98	1772	1.000	0.097	-0.052	0.128	0.203	279.453738	16.344725	841.53 -1742
6	GUIDE	used	206327040	8.60	1771	1.000	0.285	0.516	0.112	0.201	278.924306	16.943847	-1980.83 -1586
7	GUIDE	used	206315120	8.78	1773	1.000	-0.349	-0.052	0.125	0.232	279.776481	17.700068	-1949.84 2411

2.4 Star Slots

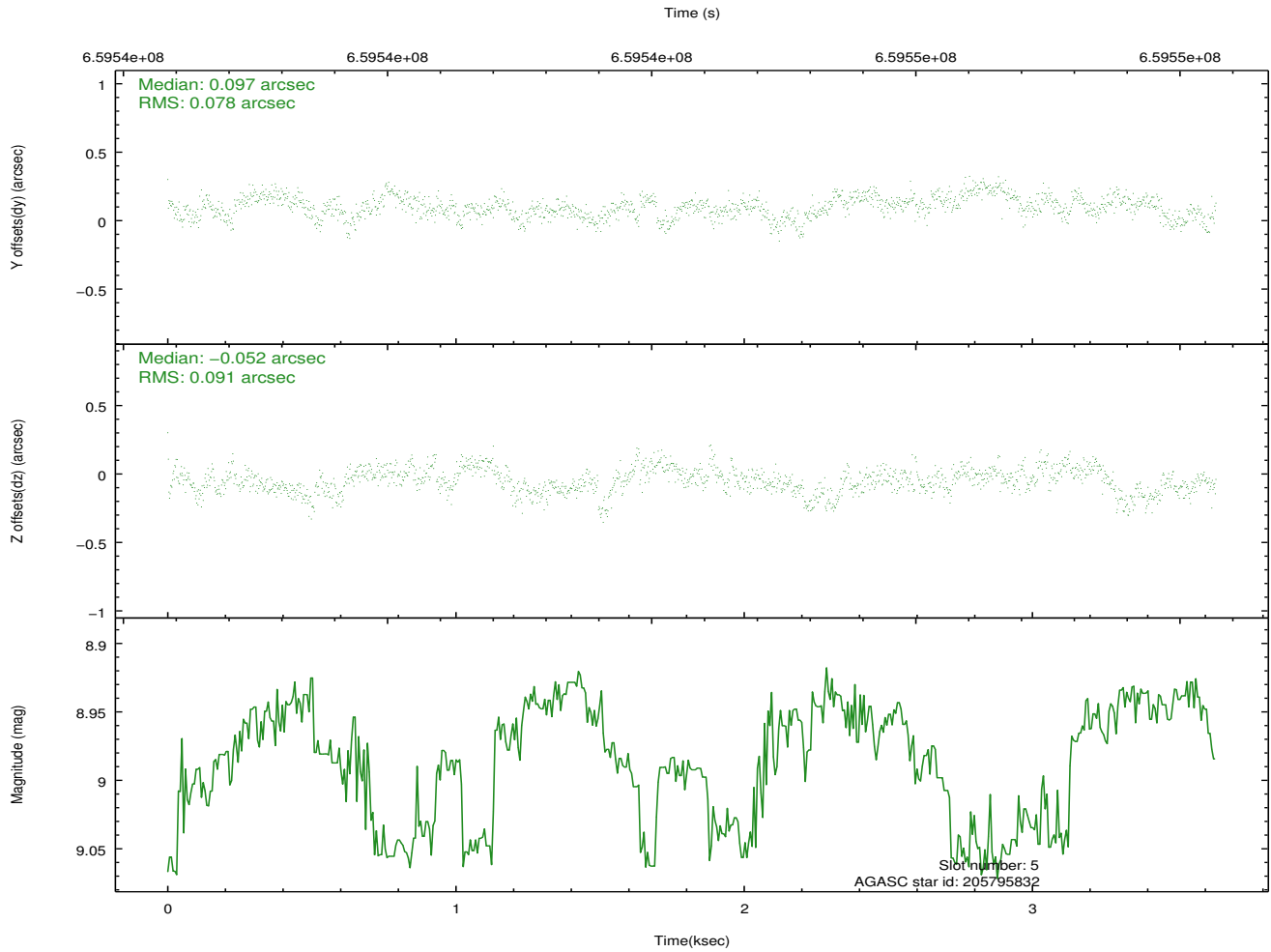
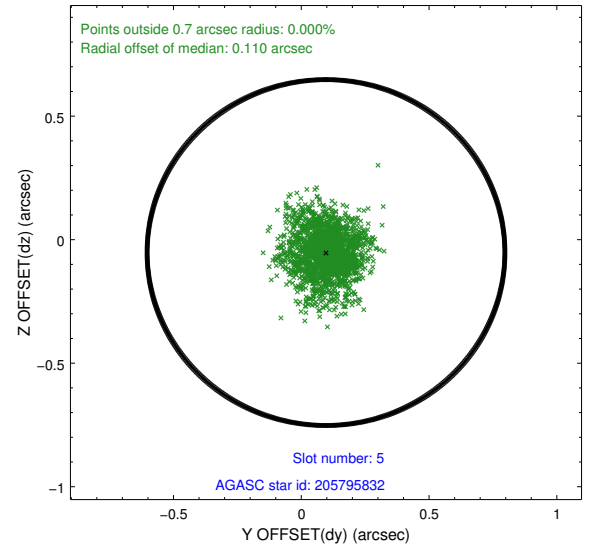
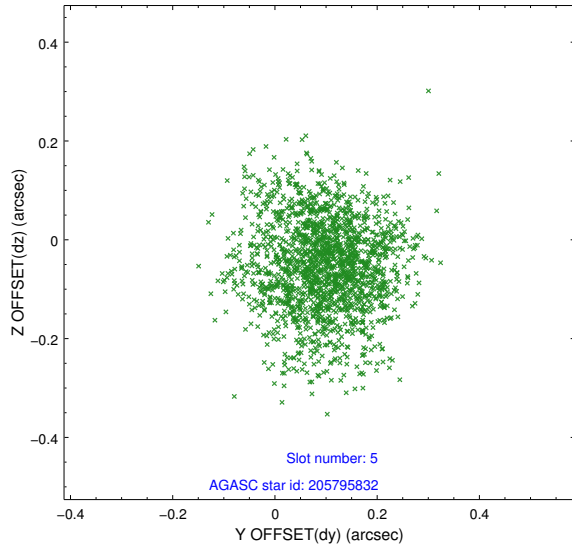
2.4.1 Slot 3



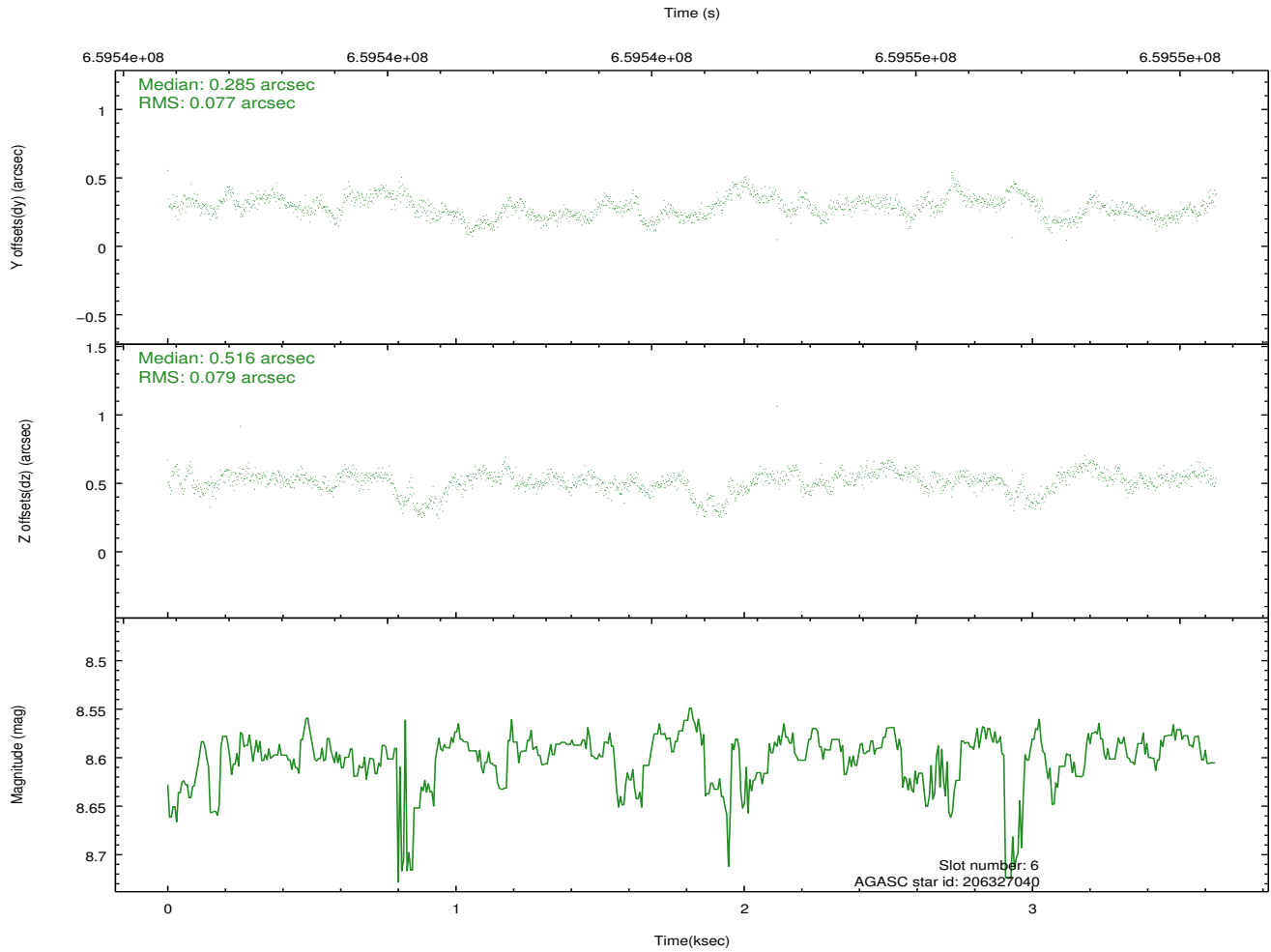
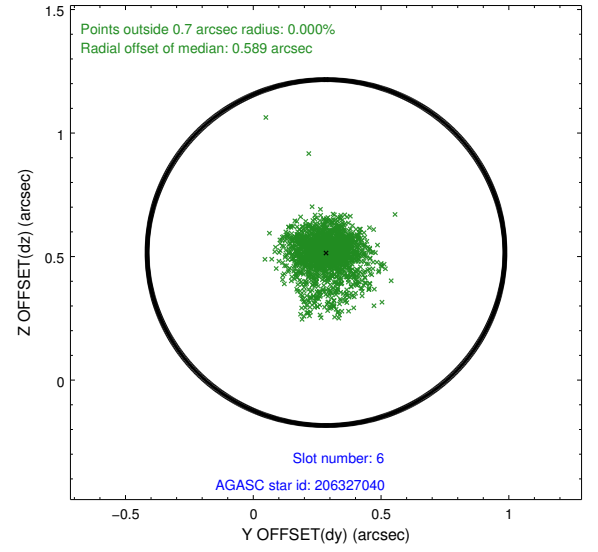
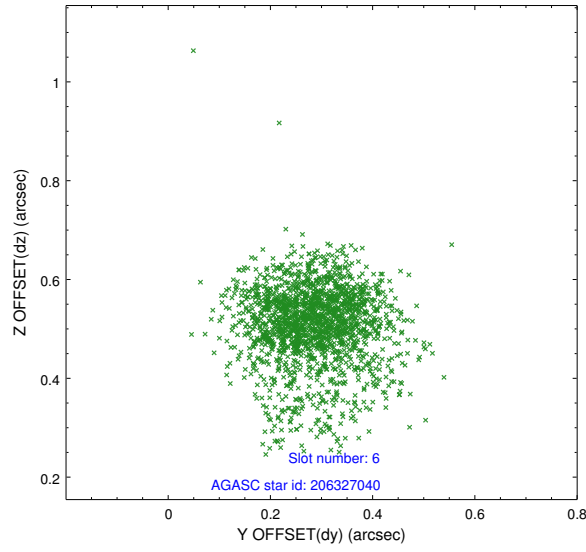
2.4.2 Slot 4



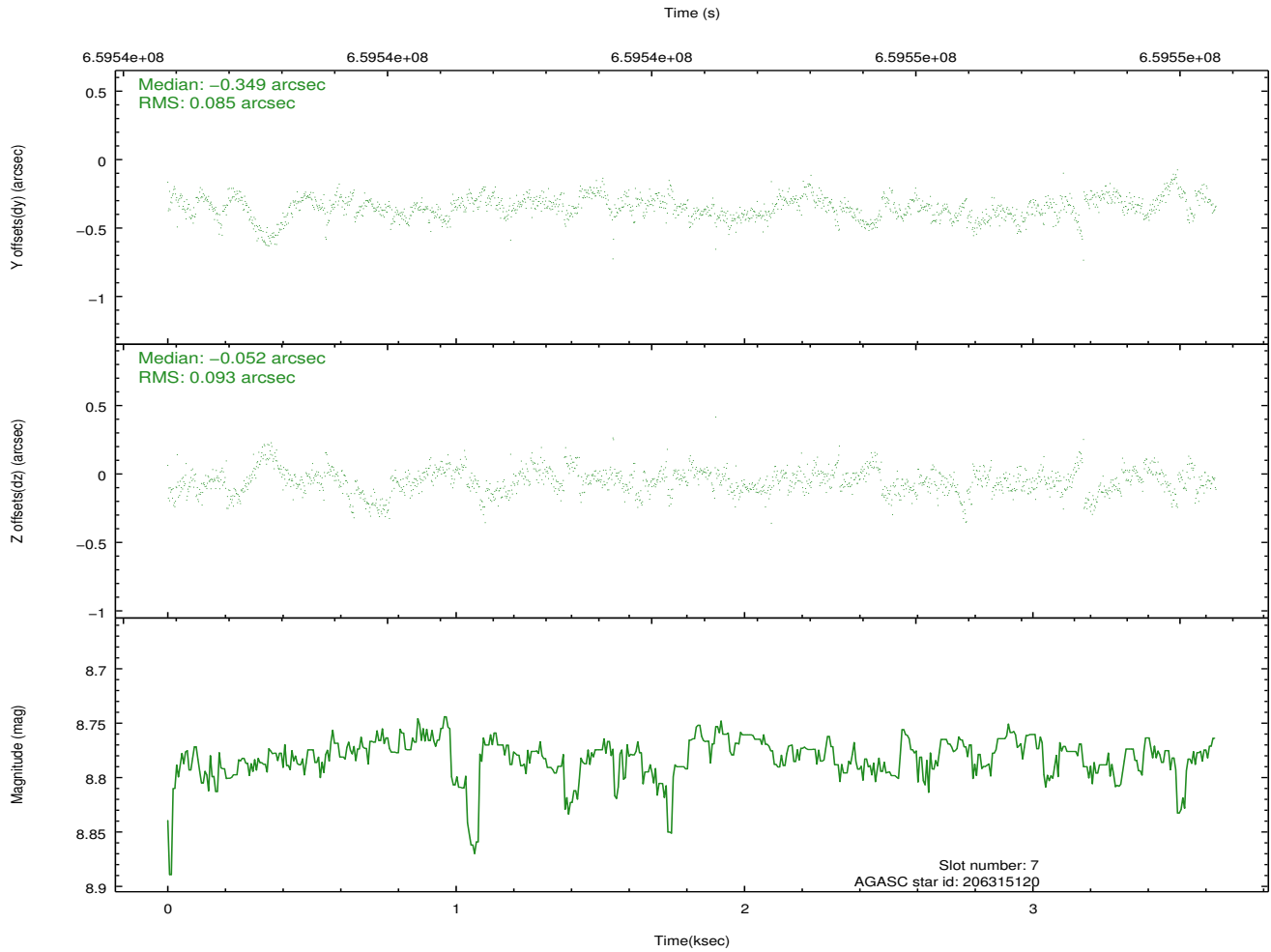
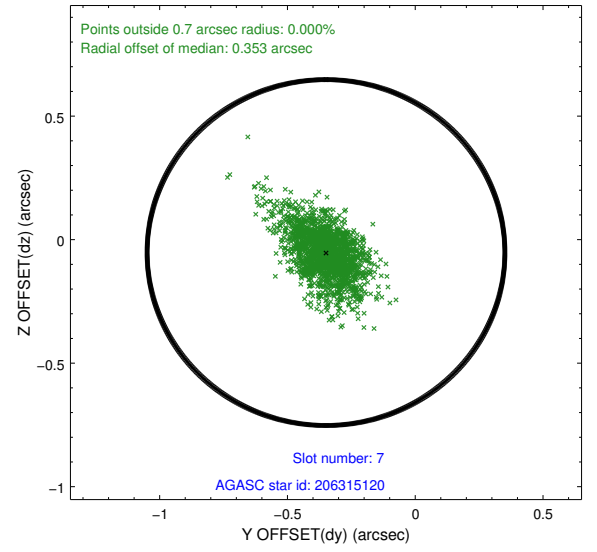
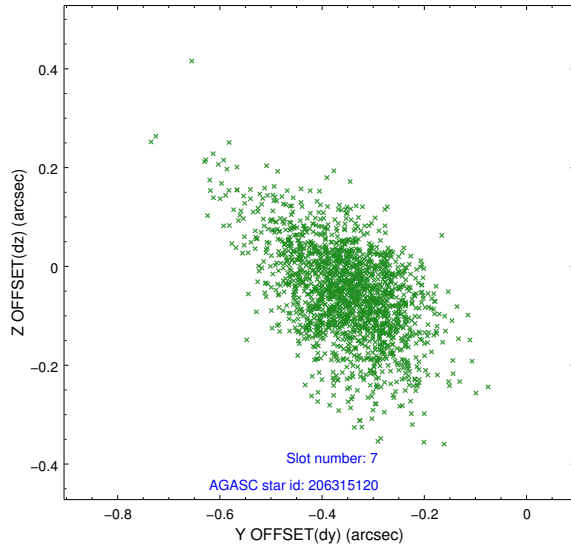
2.4.3 Slot 5



2.4.4 Slot 6

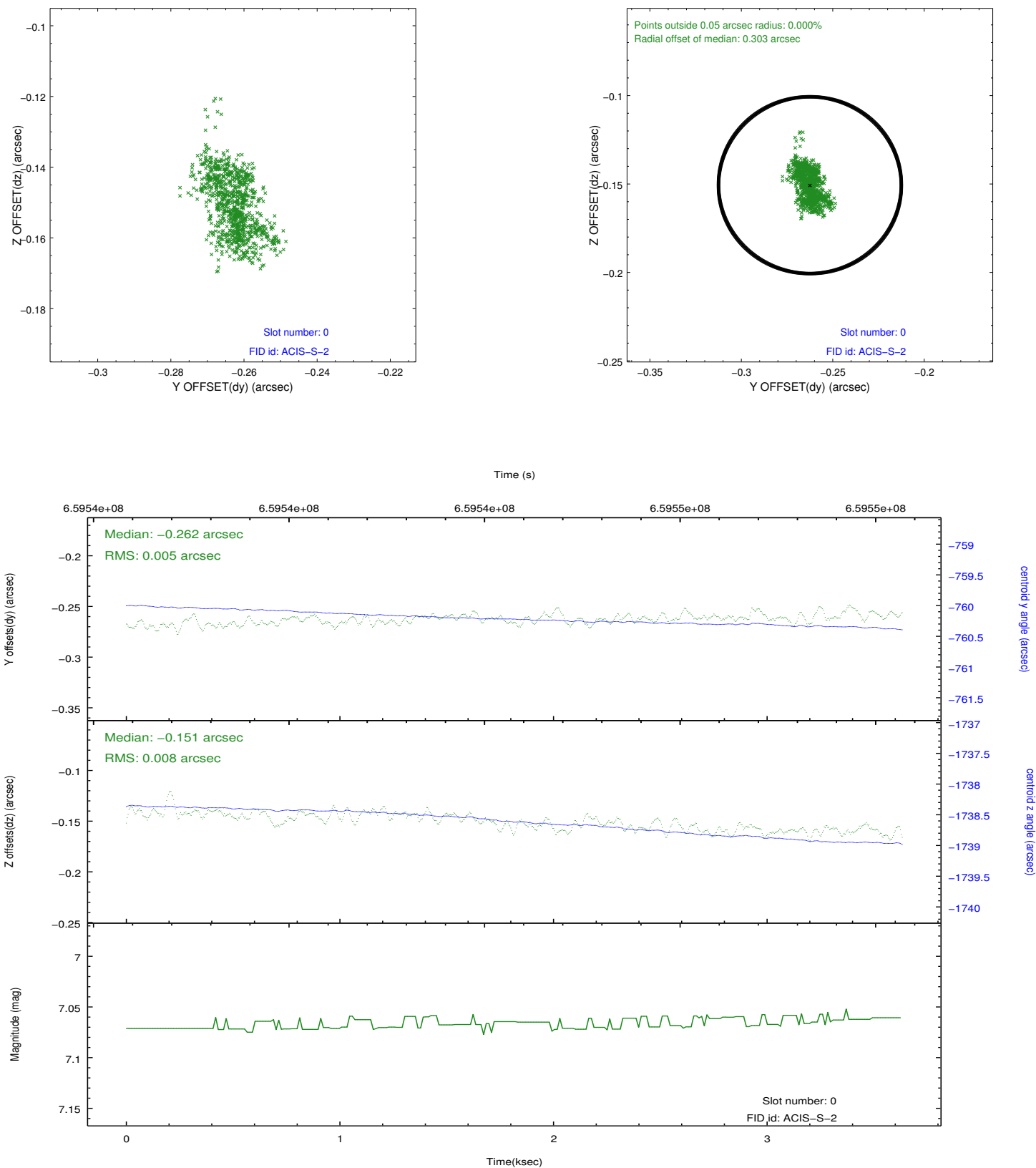


2.4.5 Slot 7

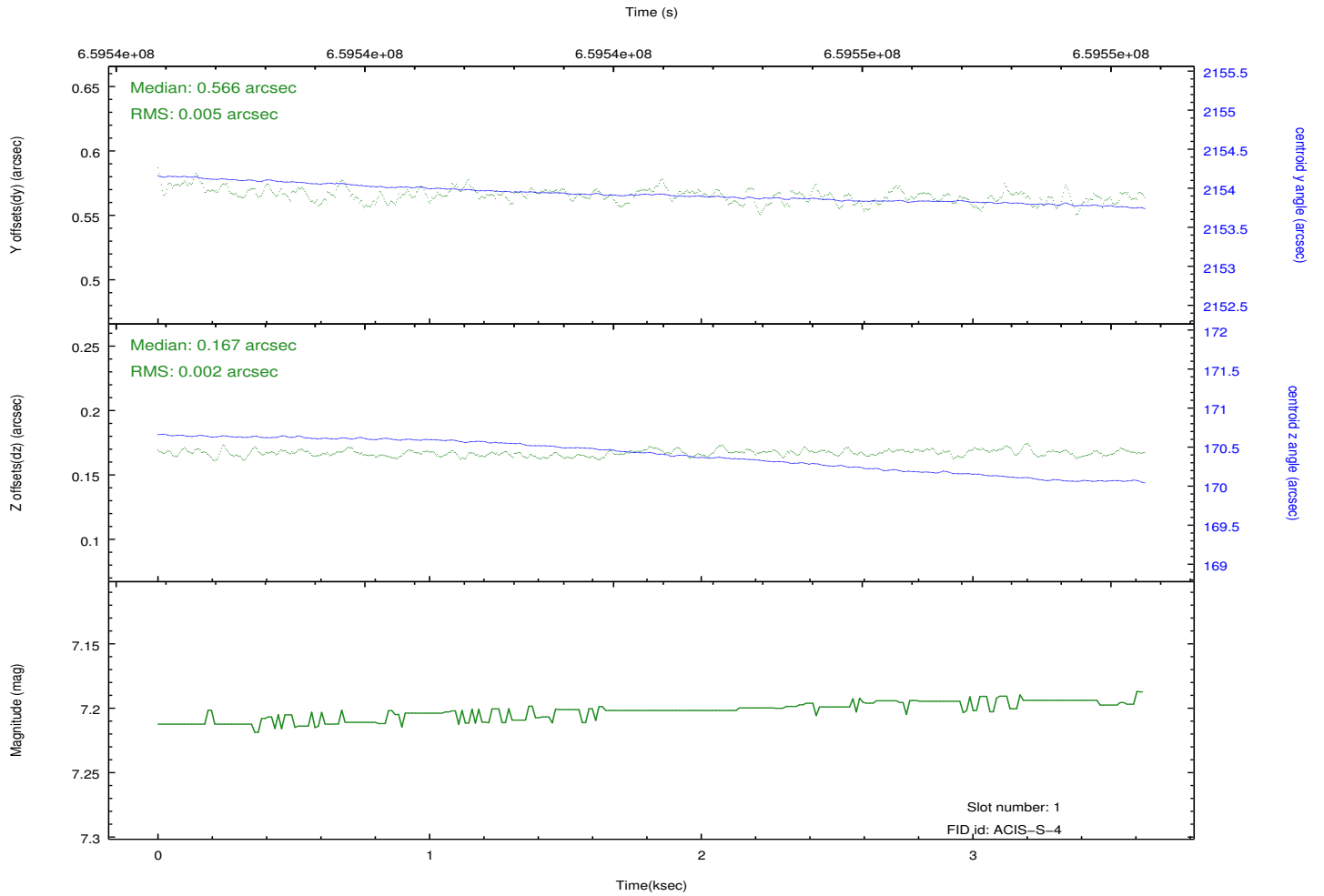
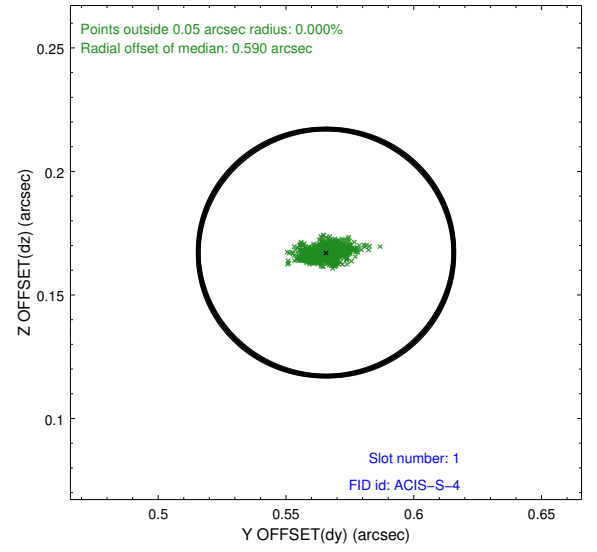
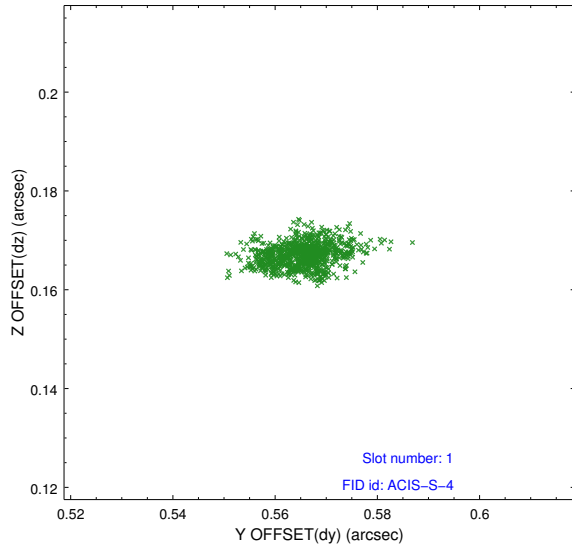


2.5 FID Slots

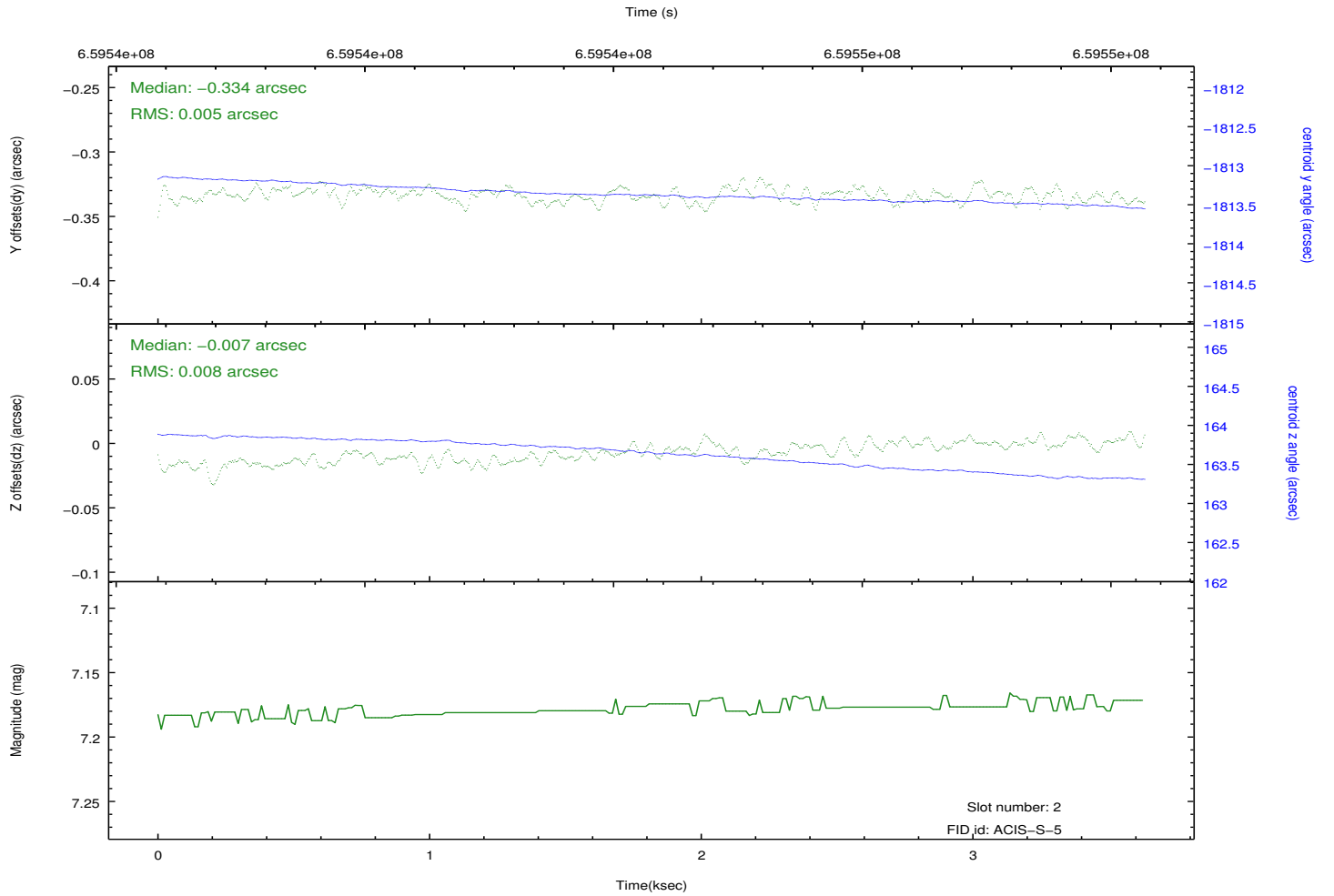
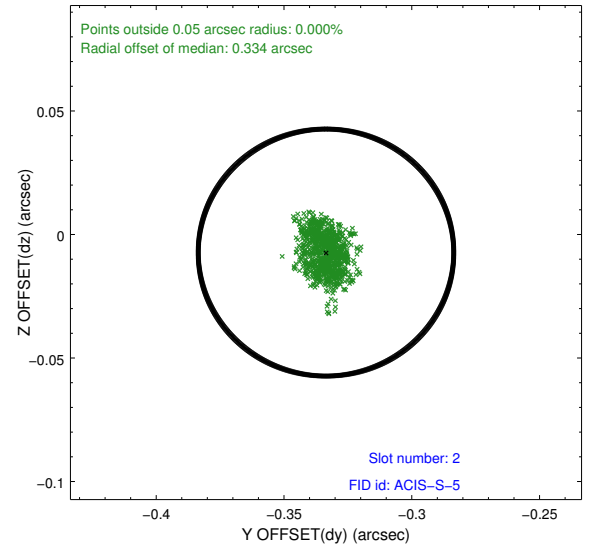
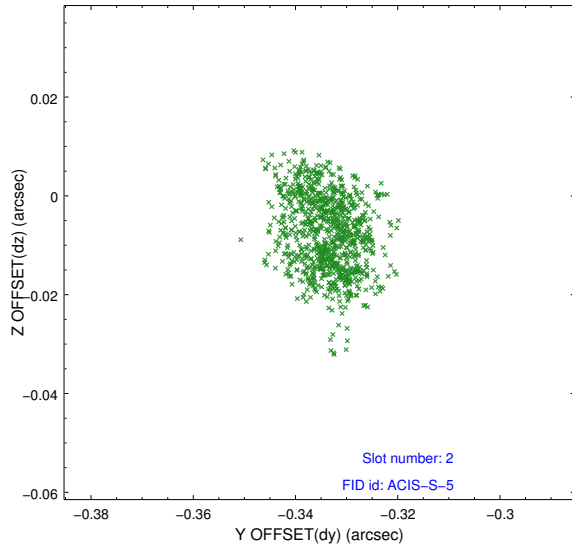
2.5.1 Slot 0



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)	2018.11.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.552600027442

A.2 Comments