

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19216 - L2 Version 1
Chandra X-Ray Center

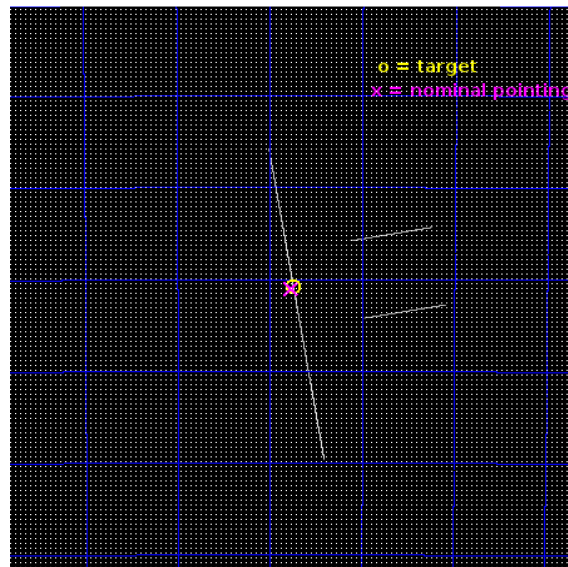
L2 Processing Date : Sep 3 2017

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

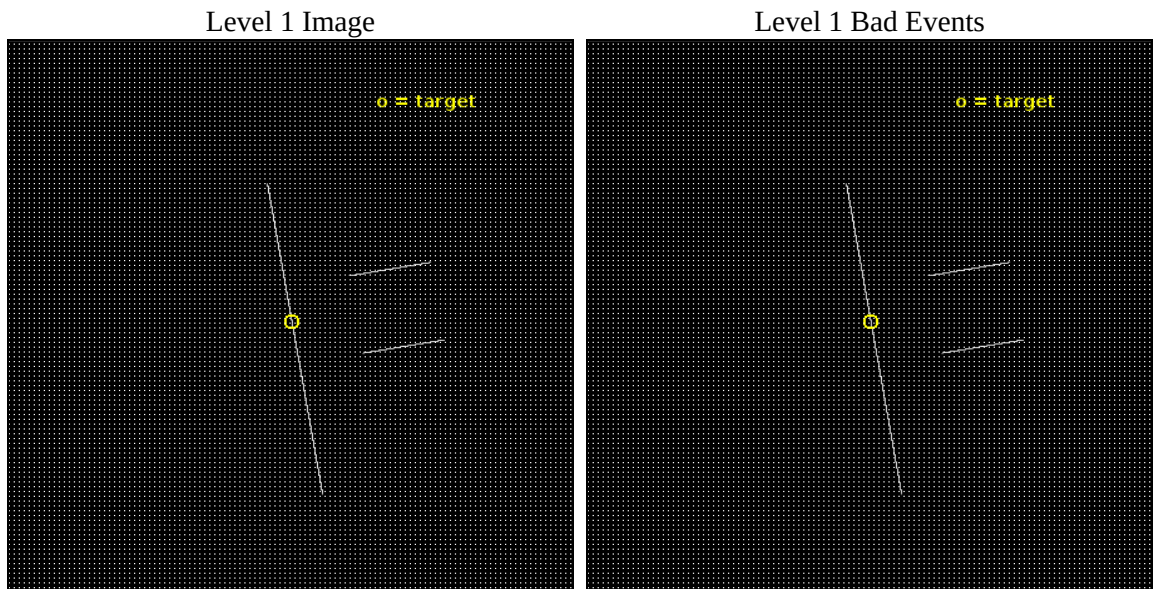
seq_num	502866	Sequence number
obs_id	19216	Observation id
title	Target-of-Opportunity Chandra Observations of Magnetars in Outburst	
observer	Victoria Kaspi	Principal investigator
object	PSR J1622-4950	Source name
ra_targ	245.686667	Observer's specified target RA [deg]
dec_targ	-49.848444	Observer's specified target Dec [deg]
ra_nom	245.69131241539	Nominal RA [deg]
dec_nom	-49.850817629829	Nominal Dec [deg]
roll_nom	260.30051590513	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25061.75	Sum of GTIs [s]
livetime	24963.852539062	Livetime [s]
ontime2	25061.75	Sum of GTIs [s]
ontime3	25061.75	Sum of GTIs [s]
ontime5	25061.75	Sum of GTIs [s]
ontime6	25061.75	Sum of GTIs [s]
ontime7	25061.75	Sum of GTIs [s]
ontime8	25061.75	Sum of GTIs [s]
l2events	349181	Number of level 2 events



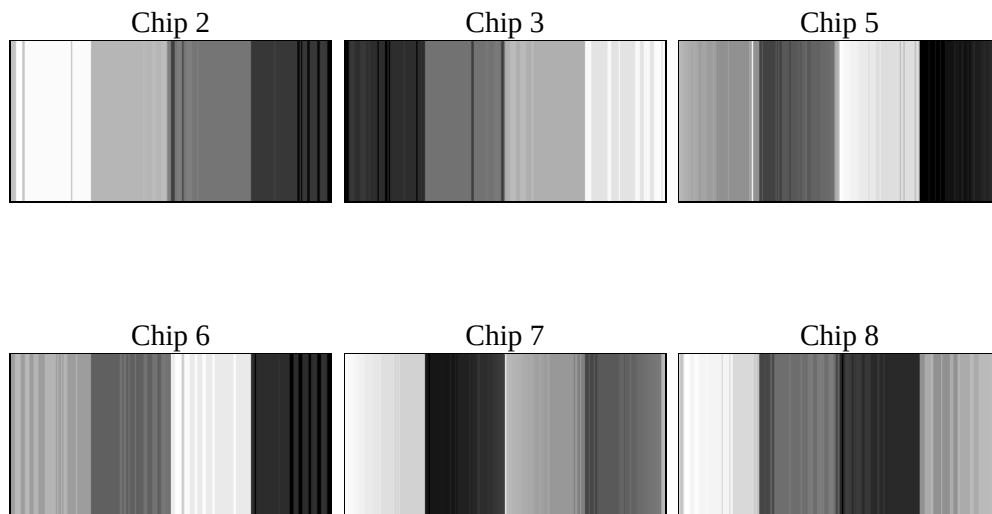
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	25061.75	Sum of GTIs [s]
caldsver	4.7.6	 	ontime2	25061.75	Sum of GTIs [s]
date	2017-09-03T23:03:11	Date and time of file creation	ontime3	25061.75	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	25061.75	Sum of GTIs [s]
			ontime6	25061.75	Sum of GTIs [s]
			ontime7	25061.75	Sum of GTIs [s]
			ontime8	25061.75	Sum of GTIs [s]
			l1events	2173963	Number of level 1 events

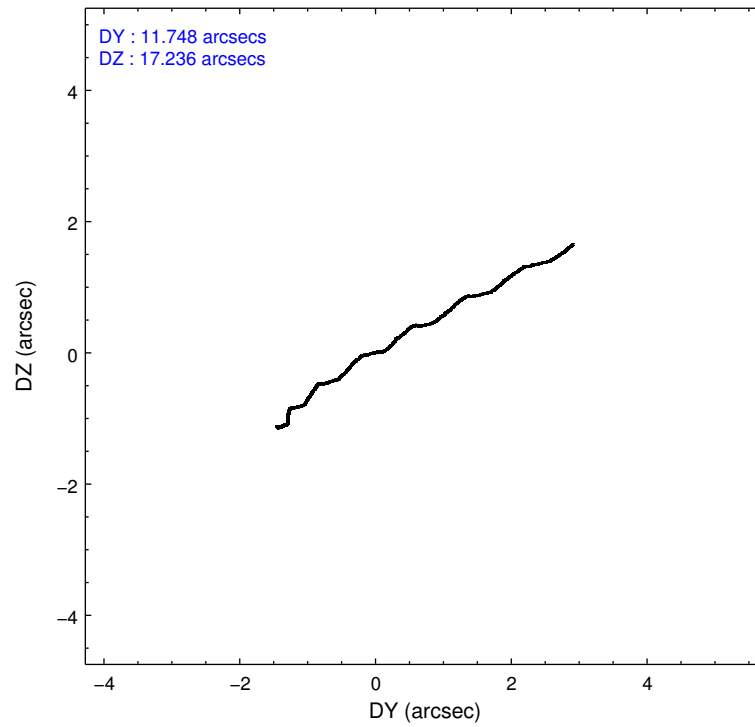
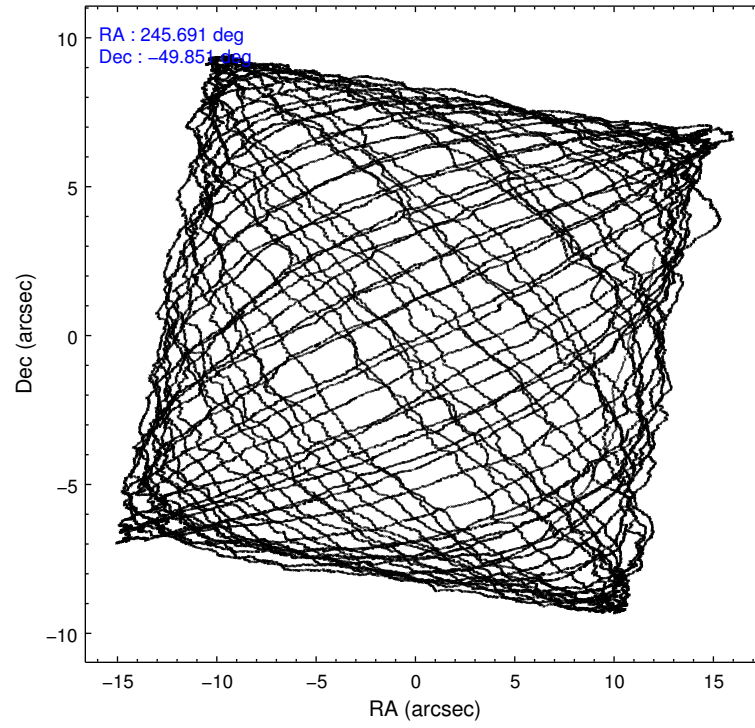
2.1.4 Events

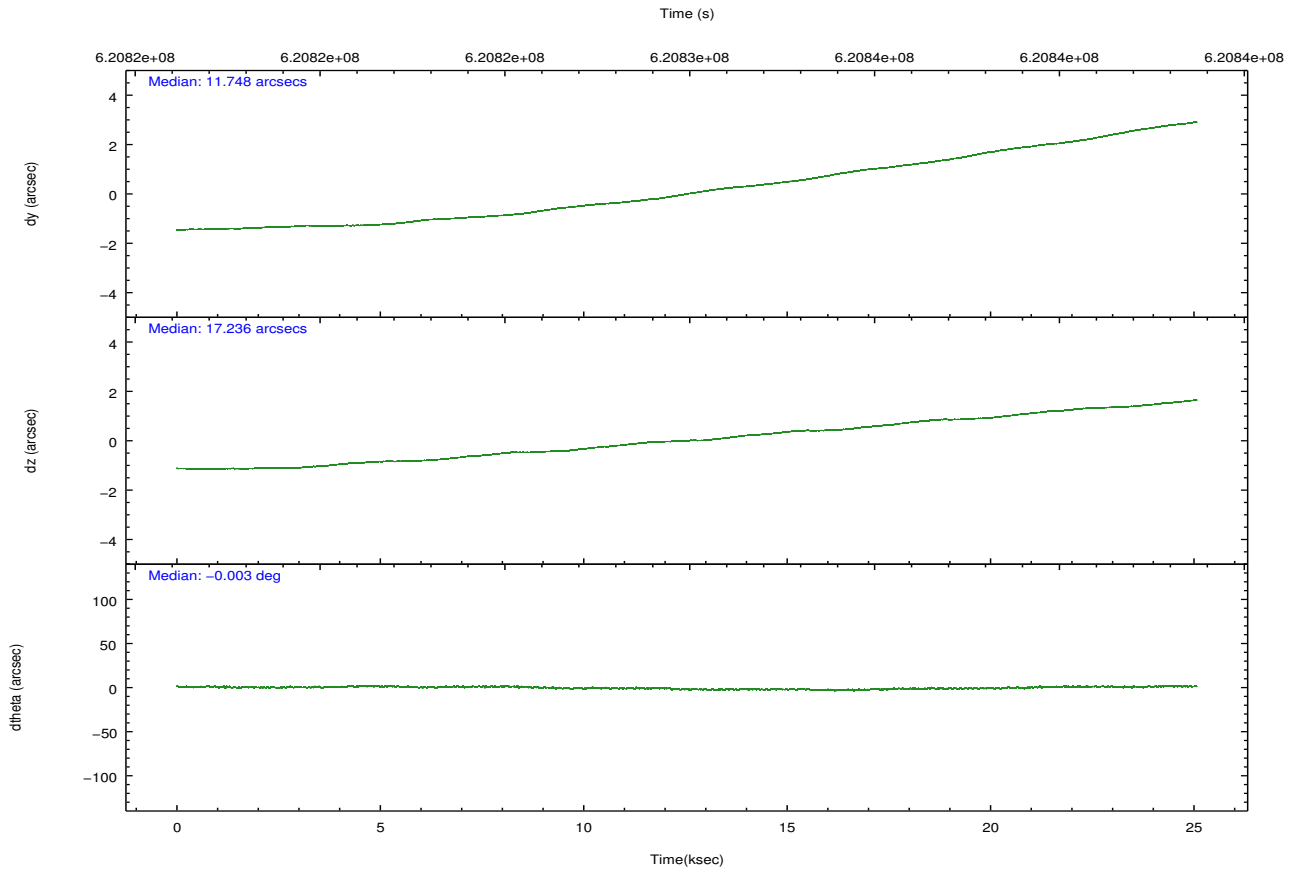
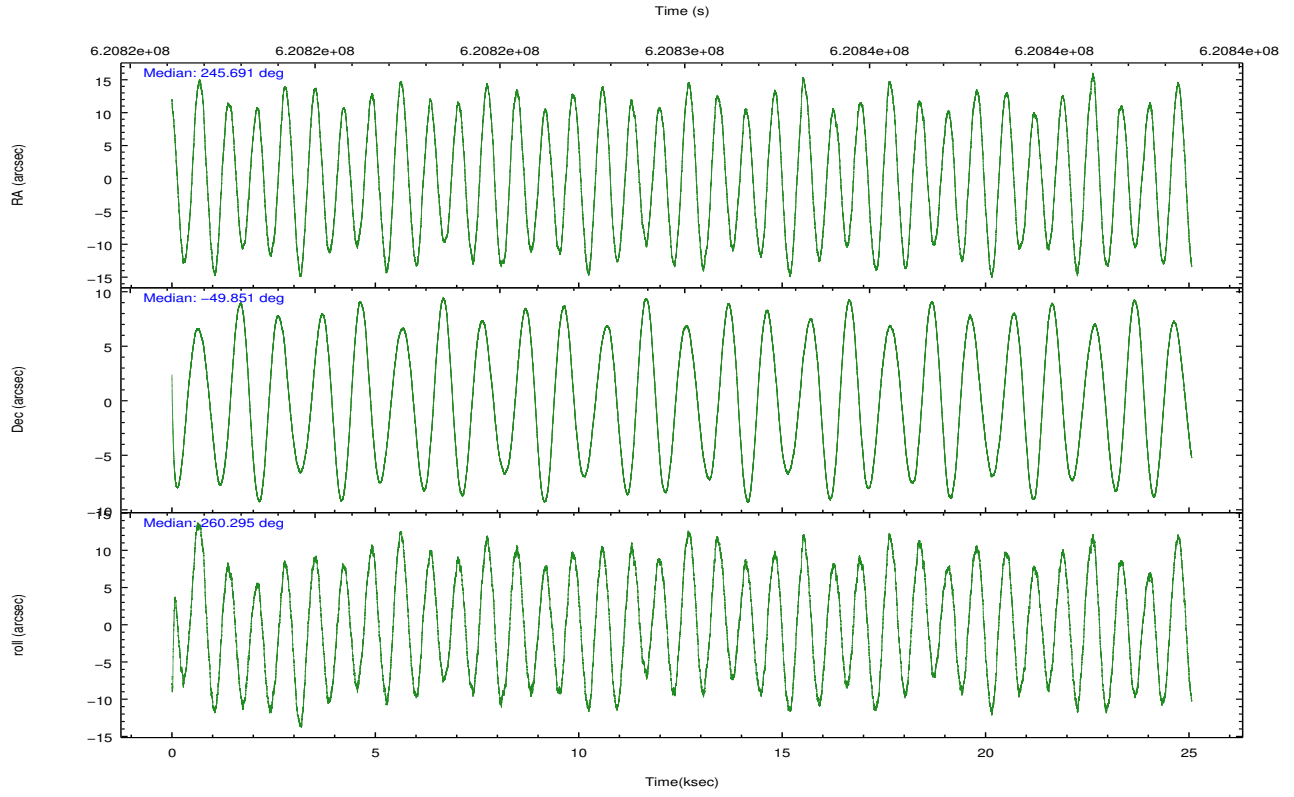
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	310959	303230	414267	295316	338674	511517	grade 0 events	3466	3733	32124	3508	7467	19092
rejected events	283839	273938	238185	264122	229722	423327		1%	1%	7%	1%	2%	3%
rejected %	91%	90%	57%	89%	67%	82%	grade 1 events	183	163	358	156	278	427
								0%	0%	0%	0%	0%	0%
							grade 2 events	10658	10944	51973	12113	30008	26926
								3%	3%	12%	4%	8%	5%
							grade 3 events	3255	3867	3145	3808	5227	9067
								1%	1%	0%	1%	1%	1%
							grade 4 events	3366	3405	2994	3560	5029	8830
								1%	1%	0%	1%	1%	1%
							grade 5 events	7663	8746	19180	9076	21908	13601
								2%	2%	4%	3%	6%	2%
							grade 6 events	6387	7360	85957	8229	61298	24297
								2%	2%	20%	2%	18%	4%
							grade 7 events	275981	265012	218536	254866	207459	409277
								88%	87%	52%	86%	61%	80%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	245.676026	245.6913124153915	CCD I2 on	O2	Y
[deg] Pointing Dec	-49.825199	-49.8508176298286	CCD I3 on	O3	Y
[deg] Pointing Roll	260.132221	260.3005159051268	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	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)	620817459.184000	620816416.33349	CCD S5 on	N	N
Observation start date	2017-09-03T09:16:30	2017-09-03T09:00:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	620842459.184000	620843250.83506	On-chip summing requested	N	N
Observation end date	2017-09-03T16:13:10	2017-09-03T16:27:30	Subarray requested	NONE	NONE
Read mode	CONTINUOUS	CONTINUOUS	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0

2.3 Aspect



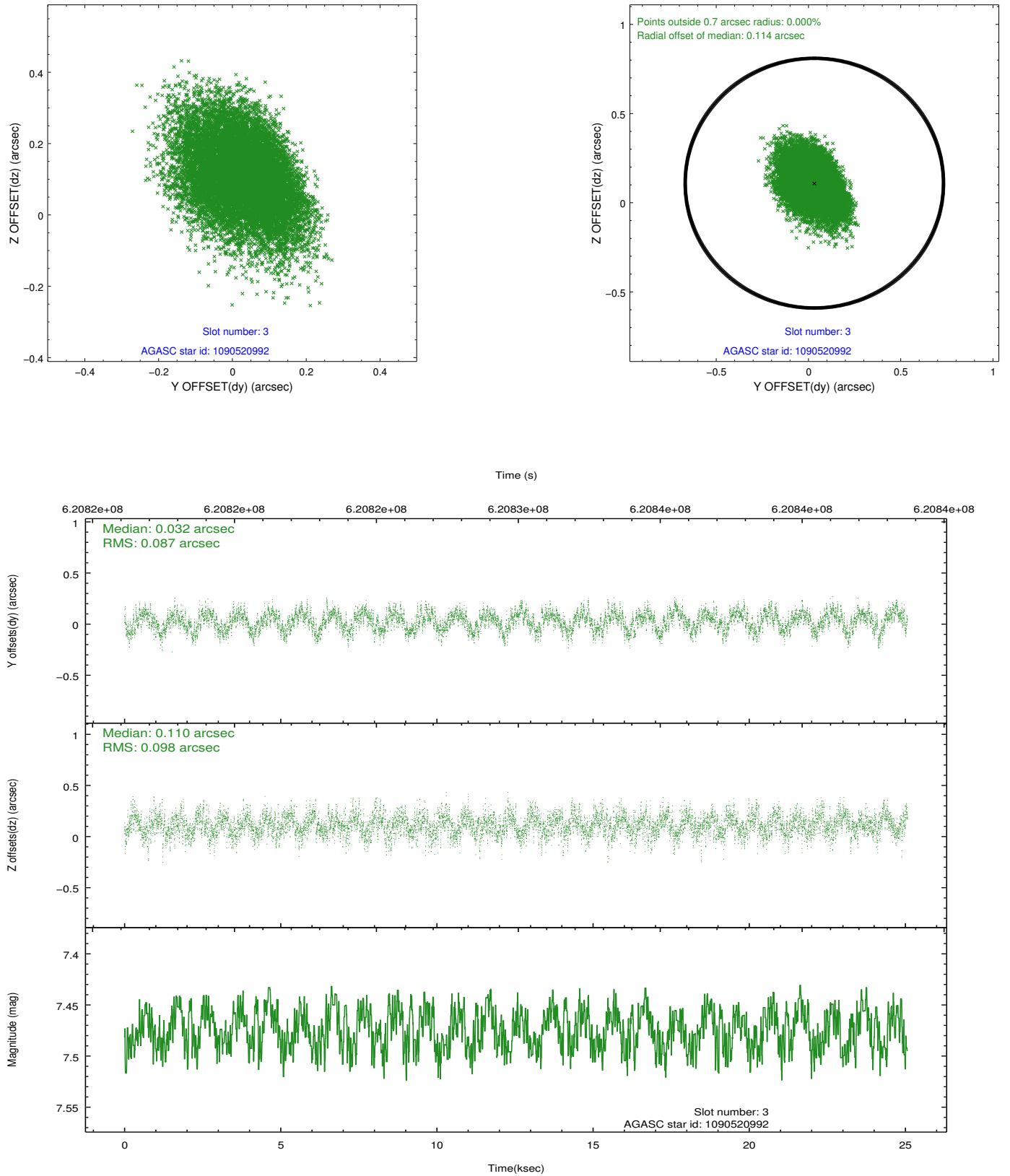


Slot Statistics

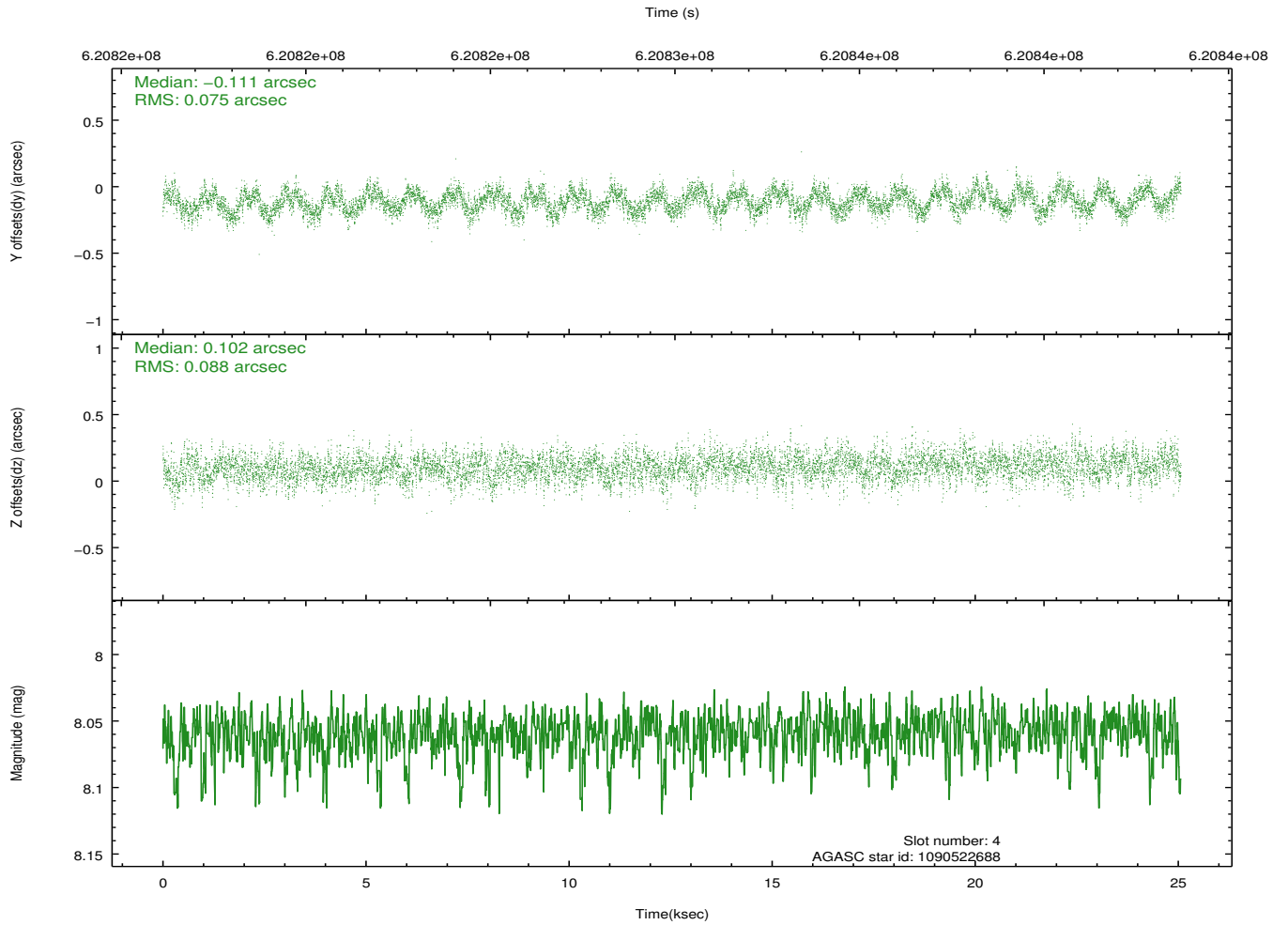
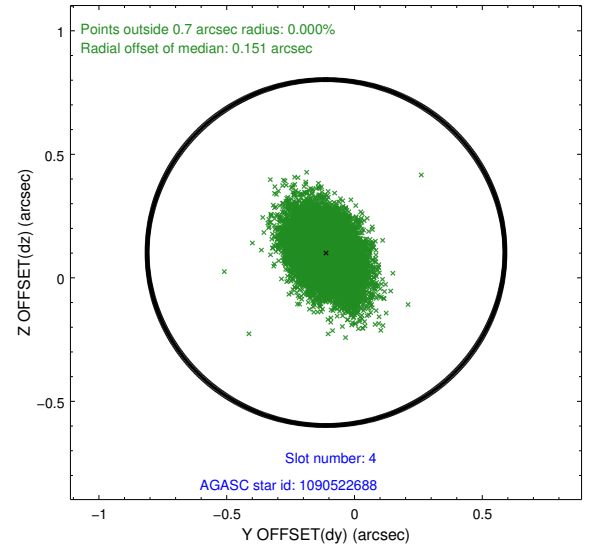
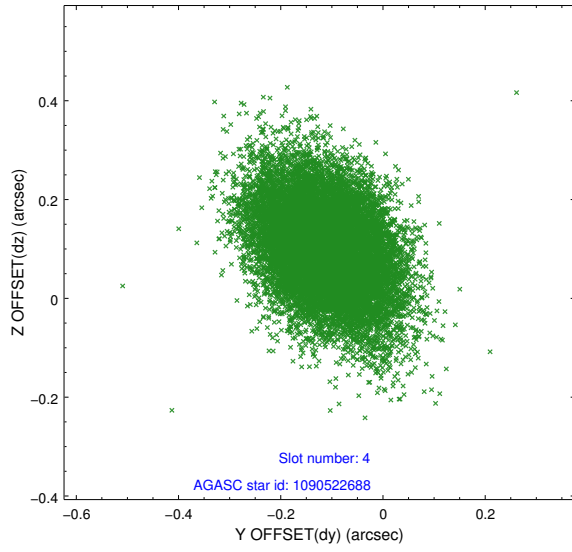
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.91	6114	-0.195	-0.105	0.020	0.078	0.000000	0.000000	-765.11	-1738.83
1	FID		ACIS-S-4	7.03	6114	0.240	0.117	0.021	0.072	0.000000	0.000000	2148.61	169.69
2	FID		ACIS-S-6	7.17	6113	-0.071	-0.004	0.015	0.023	0.000000	0.000000	397.21	807.14
3	GUIDE	used	1090520992	7.47	12228	0.032	0.110	0.138	0.226	245.489527	-49.662443	-501.77	-528.21
4	GUIDE	used	1090522688	8.06	12220	-0.111	0.102	0.122	0.199	245.358664	-49.397960	-1386.01	-995.75
5	GUIDE	used	1090525496	8.60	12218	0.273	-0.092	0.139	0.228	244.777039	-50.152945	1530.84	-1838.47
6	GUIDE	used	1090527696	7.19	12228	-0.385	0.042	0.120	0.215	246.414931	-49.424565	-1708.62	1458.51
7	GUIDE	used	1090531048	8.35	12221	0.199	-0.161	0.129	0.228	246.008201	-50.442227	2059.96	1131.68

2.4 Star Slots

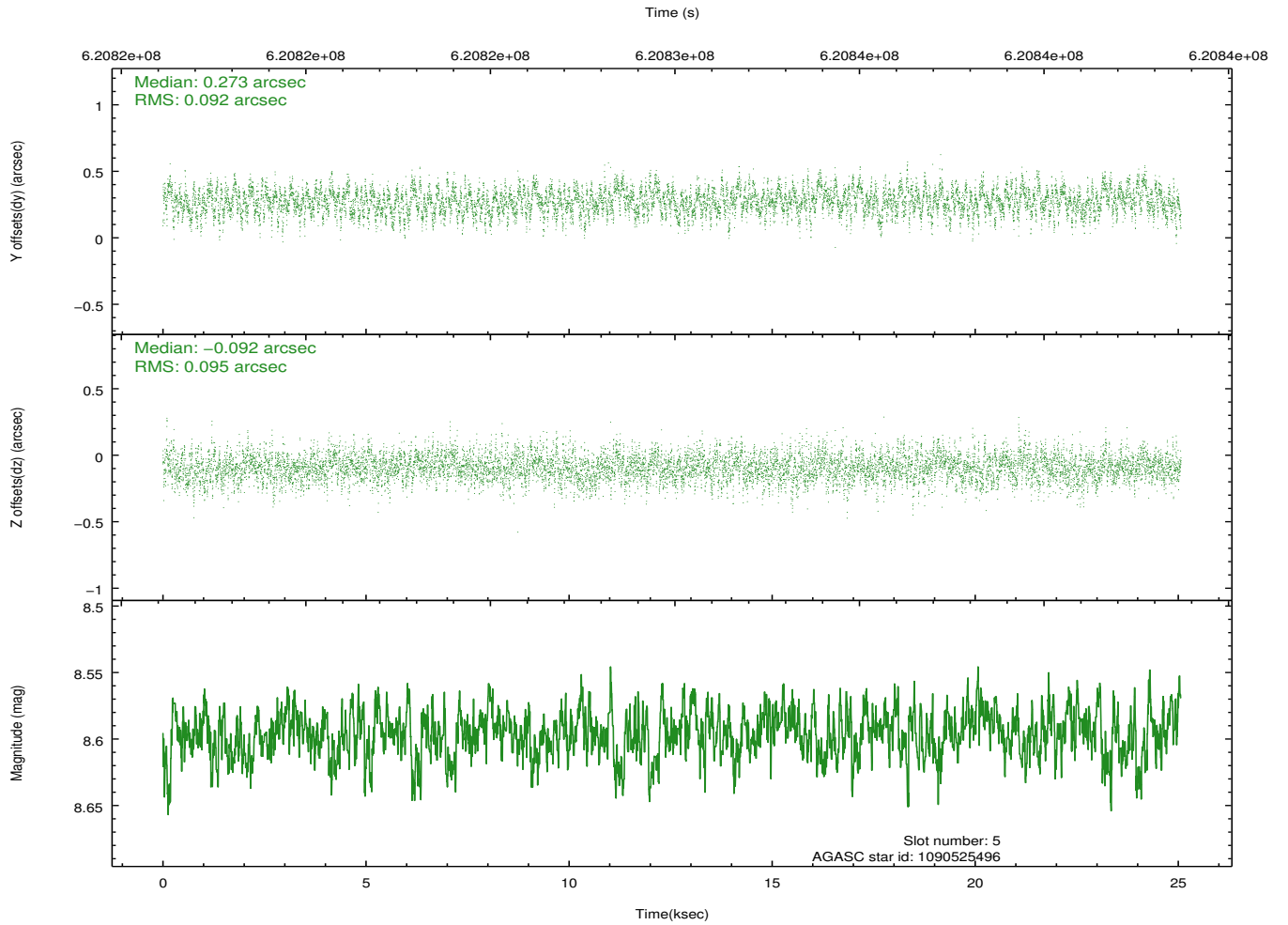
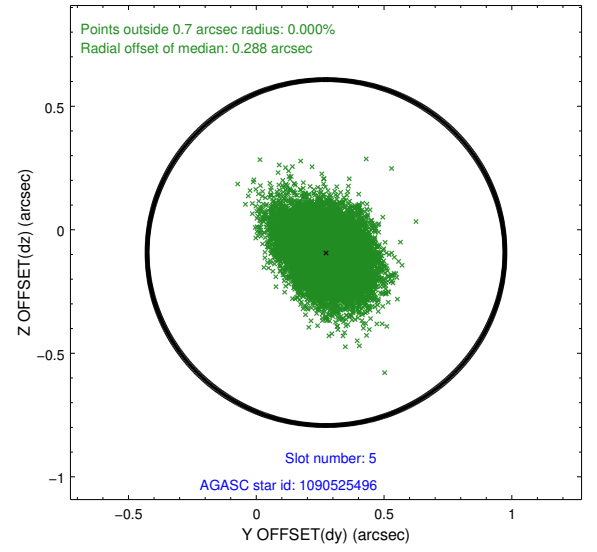
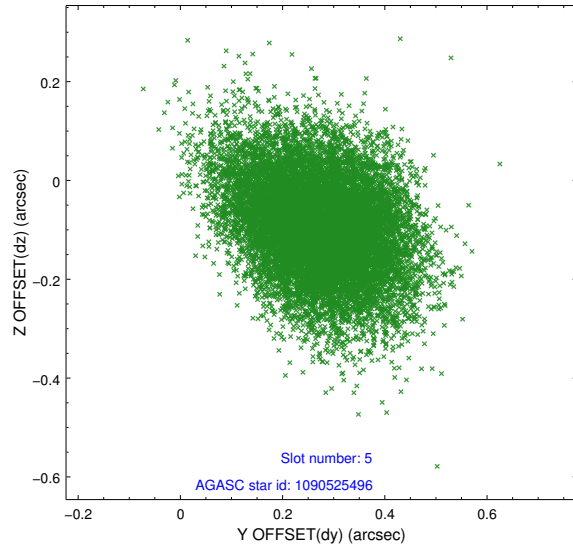
2.4.1 Slot 3



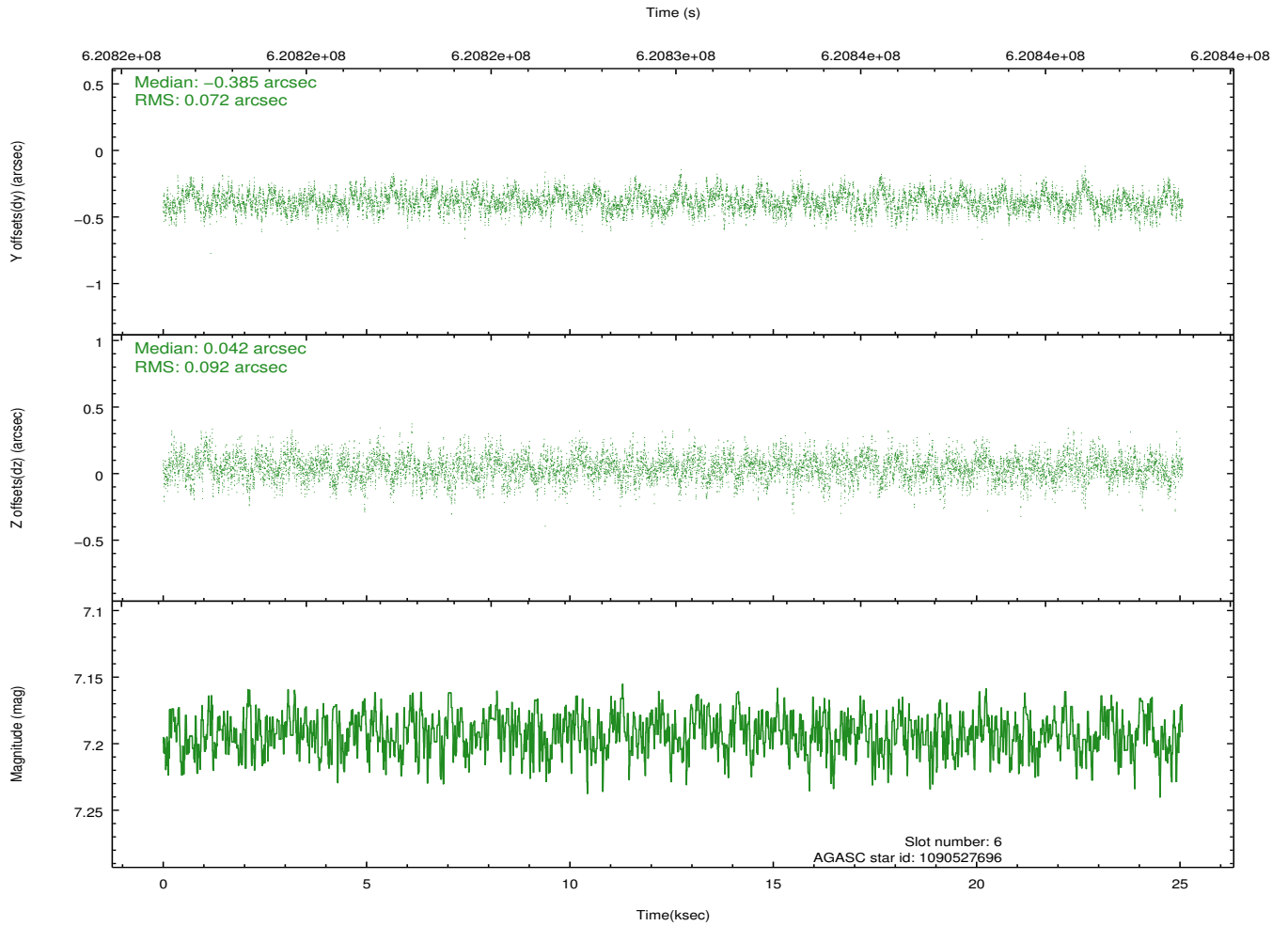
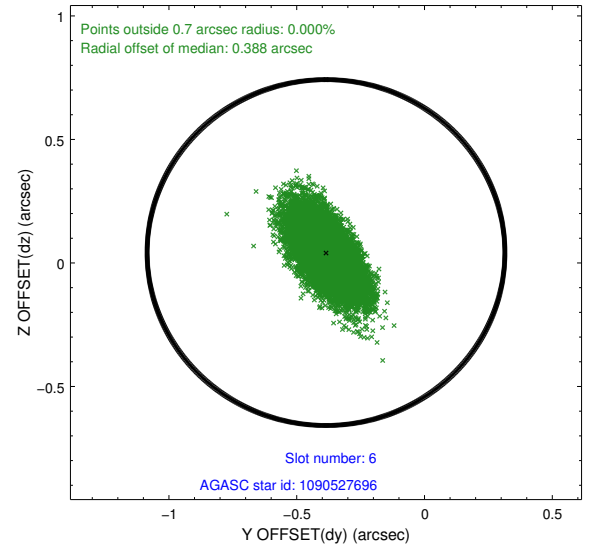
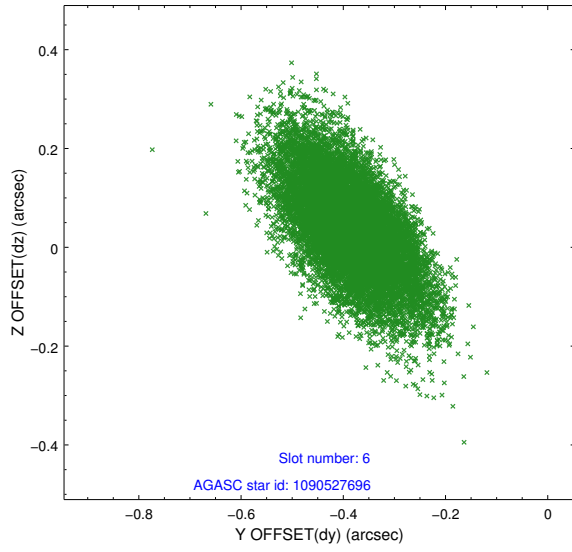
2.4.2 Slot 4



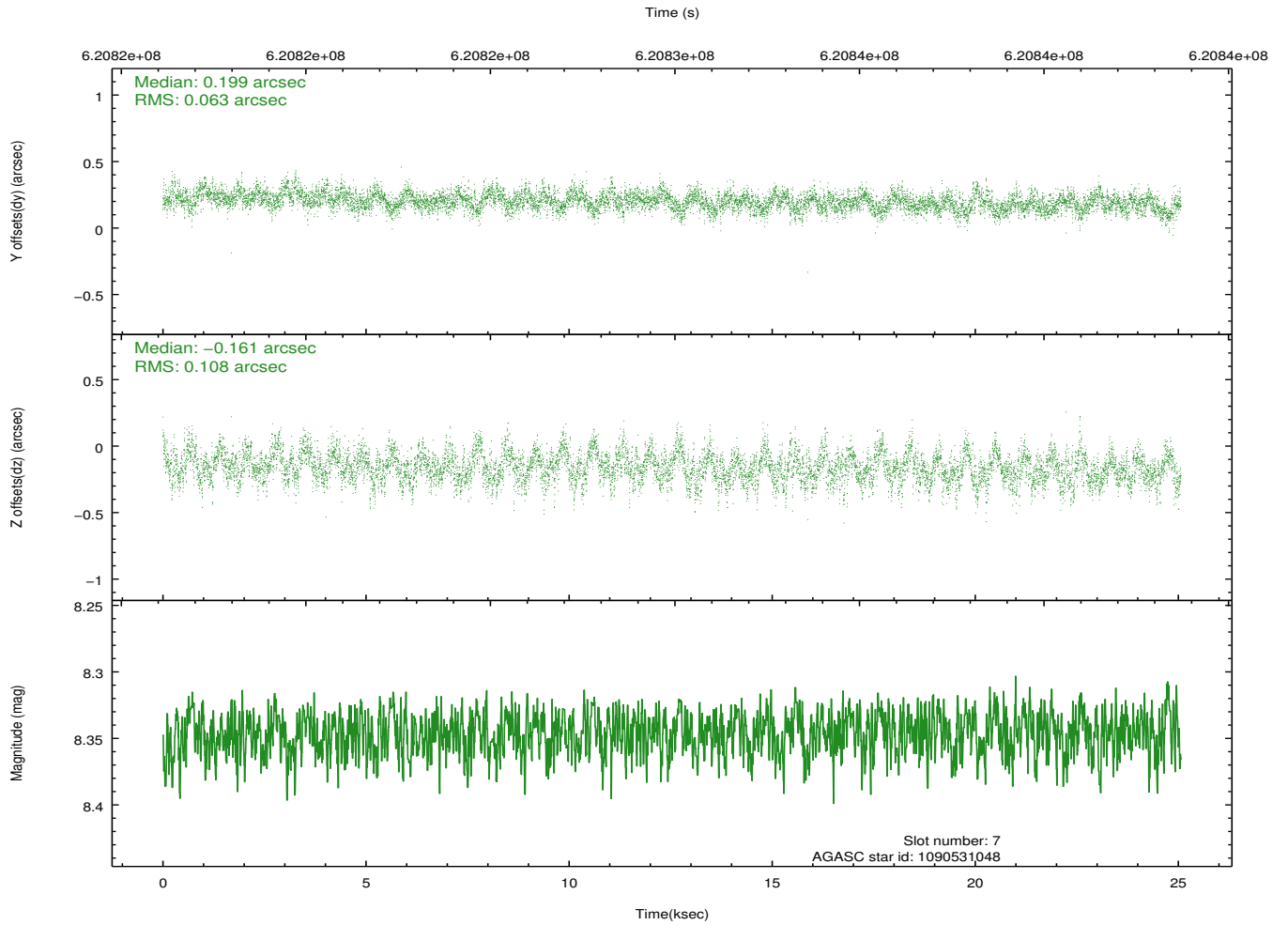
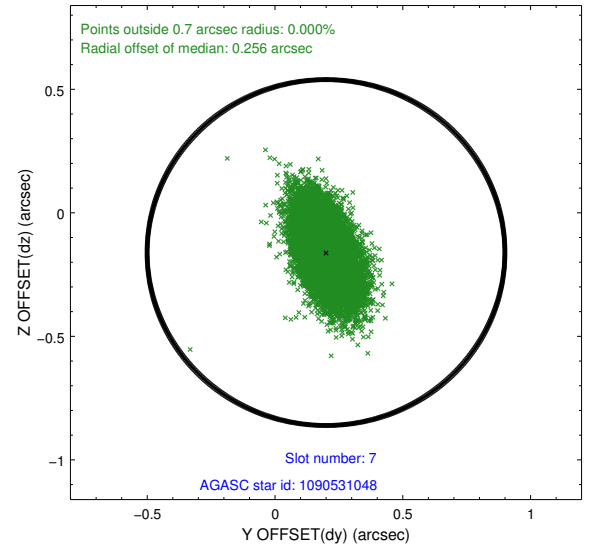
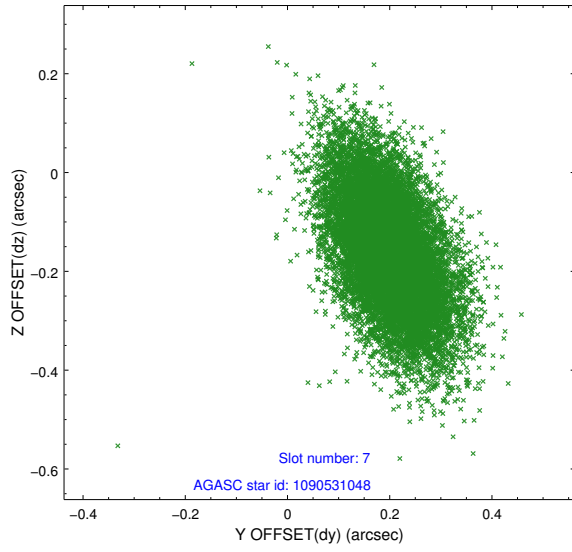
2.4.3 Slot 5



2.4.4 Slot 6

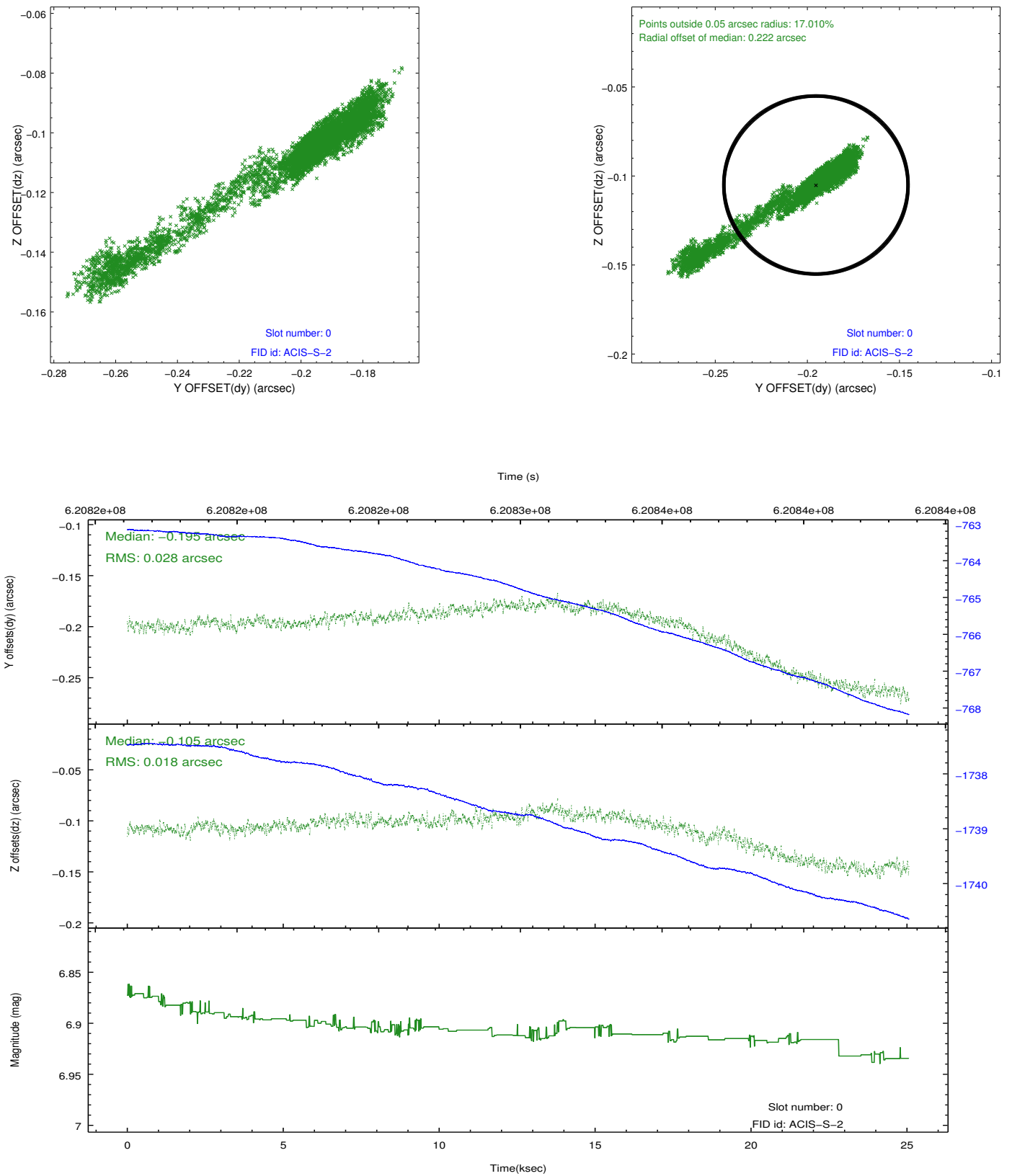


2.4.5 Slot 7

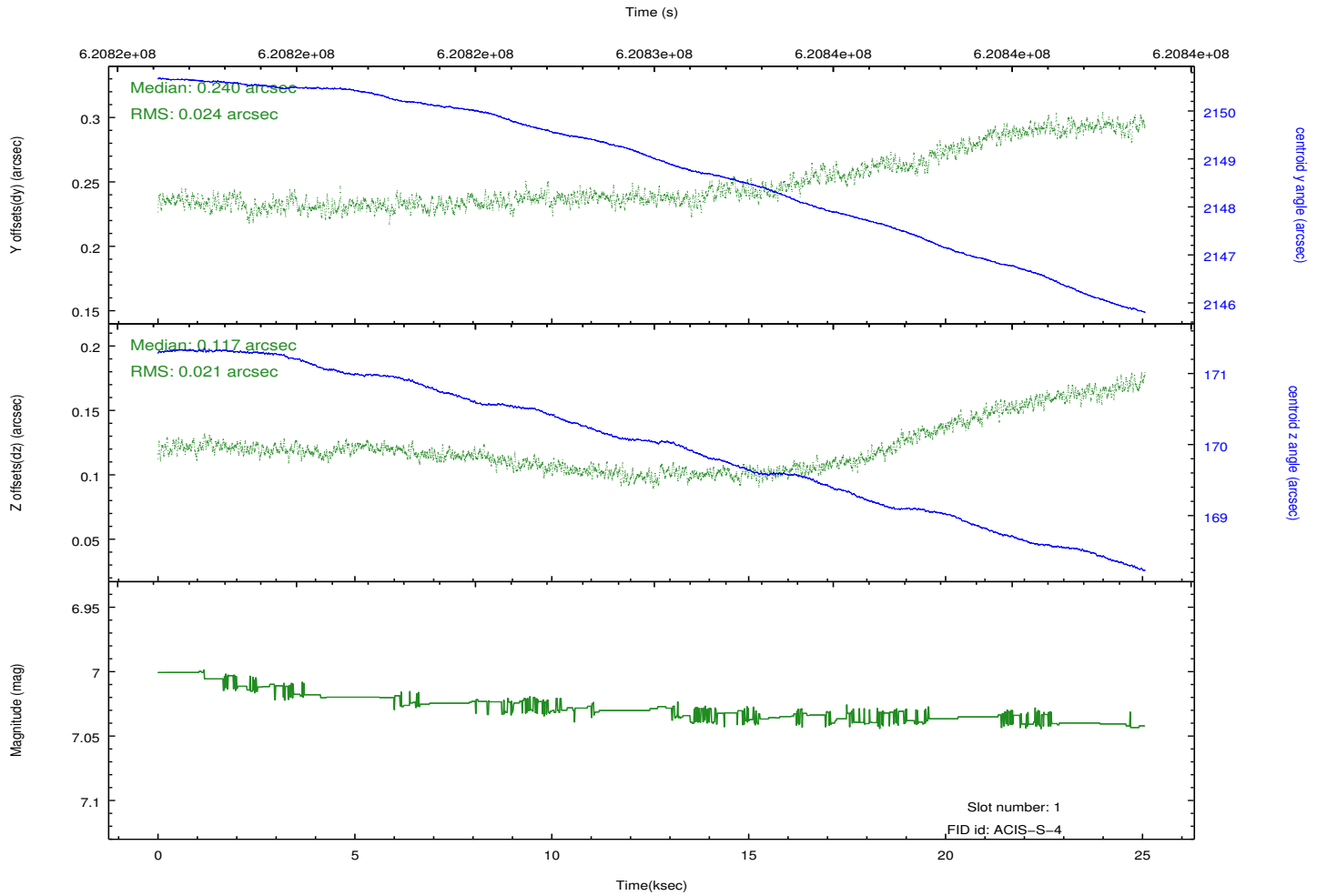
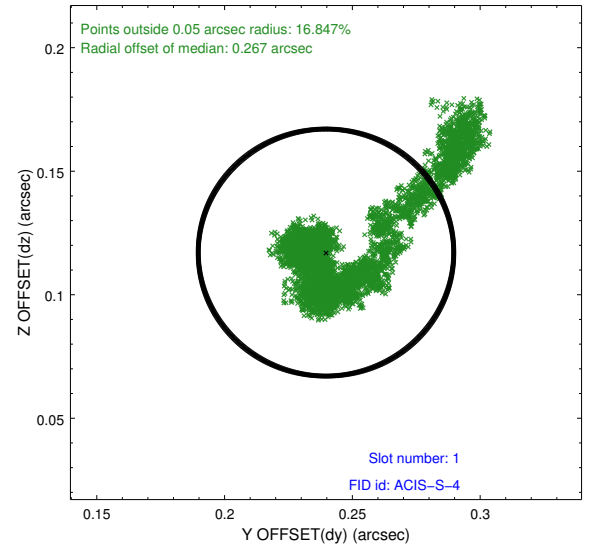
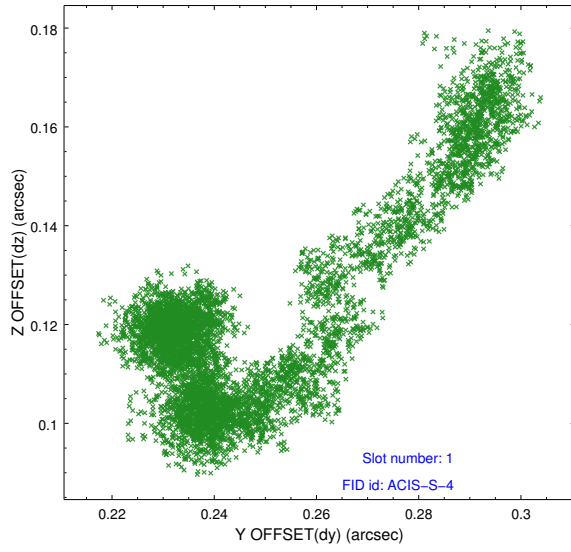


2.5 FID Slots

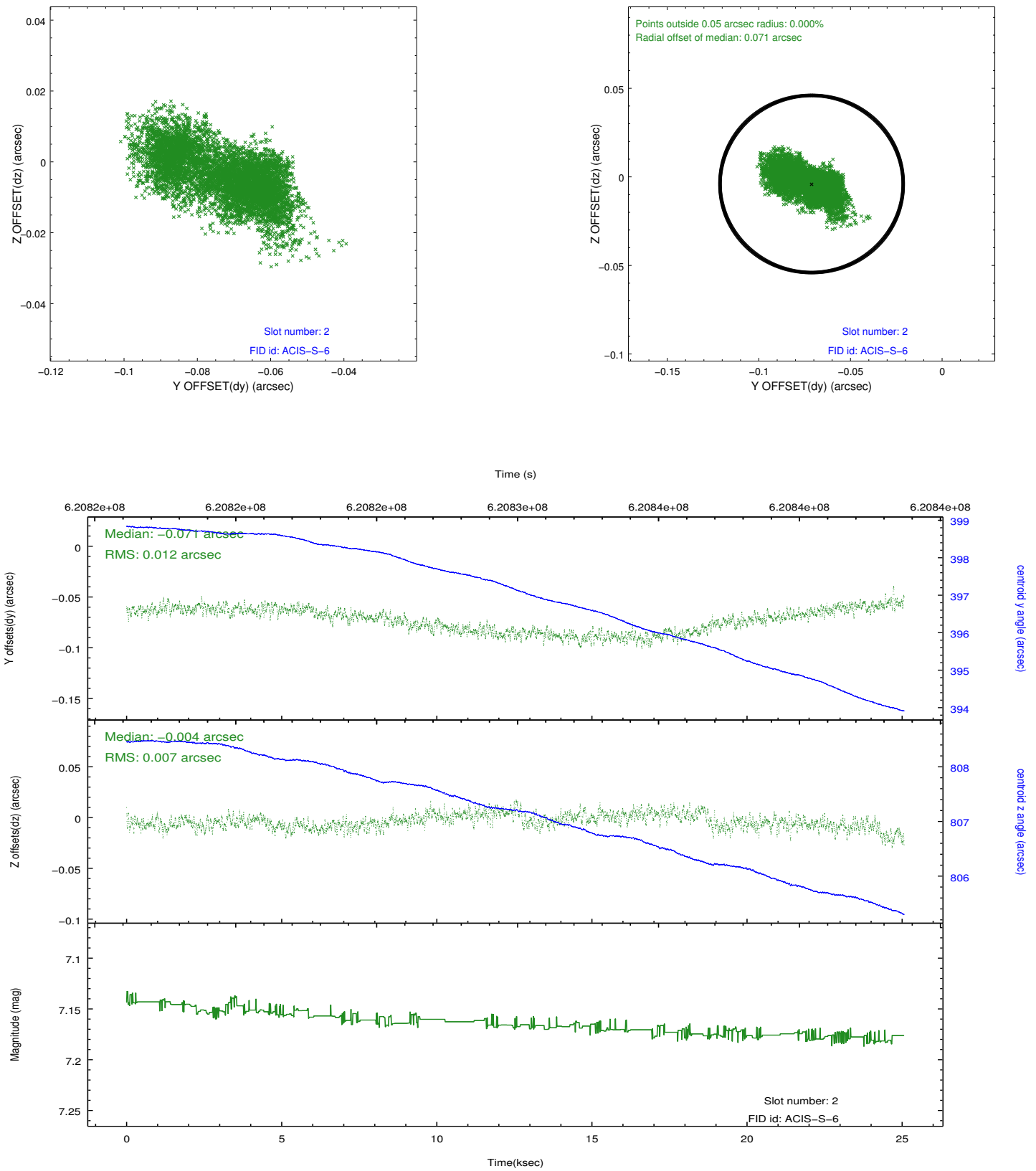
2.5.1 Slot 0



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)	2017.09.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.06175

A.2 Comments