

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18080 - L2 Version 1
Chandra X-Ray Center

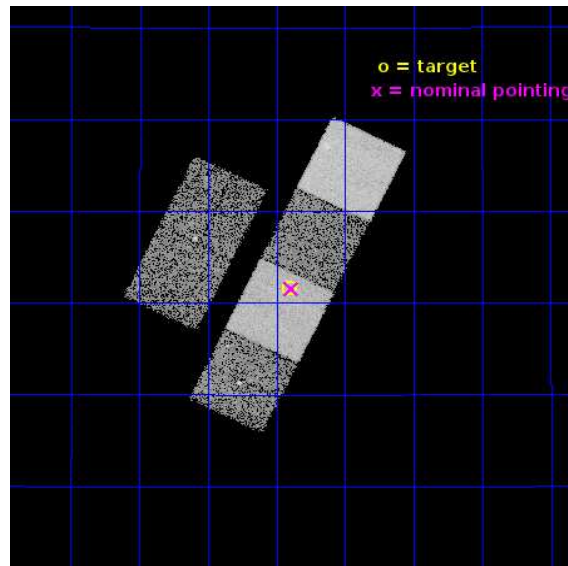
L2 Processing Date : Apr 4 2016

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

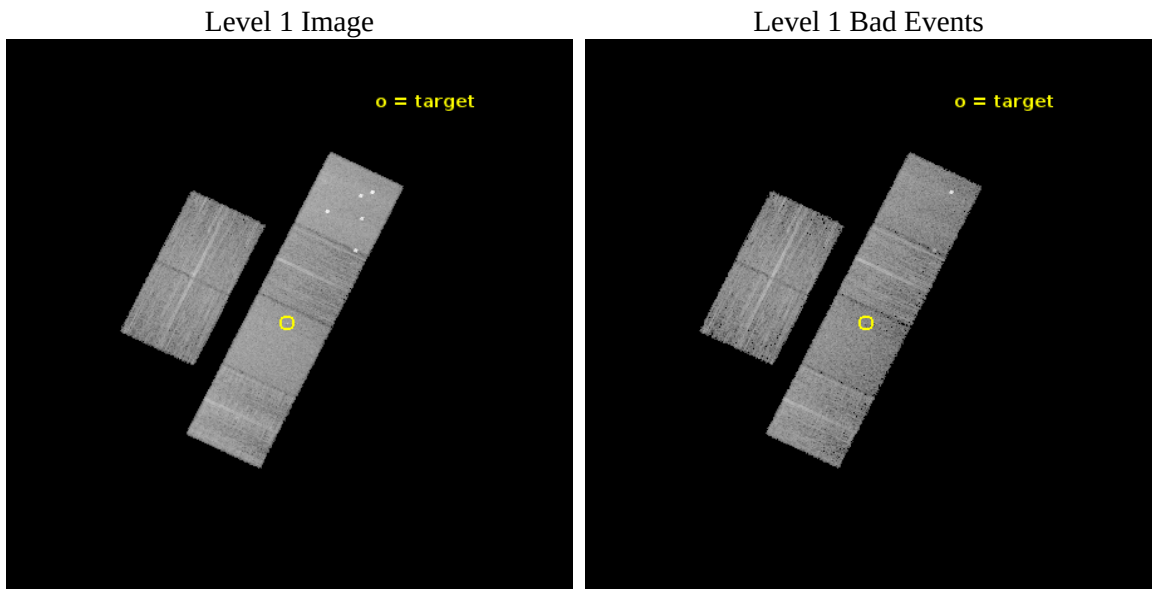
seq_num	901194	Sequence number
obs_id	18080	Observation id
title	Compton-Thick AGN: The Hunt is on	Proposal title
observer	Marco Ajello	Principal investigator
object	NGC 5972	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	234.725833	Observer's specified target RA [deg]
dec_targ	17.026194	Observer's specified target Dec [deg]
ra_nom	234.72304395358	Nominal RA [deg]
dec_nom	17.02582813472	Nominal Dec [deg]
roll_nom	116.0612773994	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9952.0001482964	Sum of GTIs [s]
livetime	9825.9819300436	Livetime [s]
ontime2	9952.0001482964	Sum of GTIs [s]
ontime3	9952.0001482964	Sum of GTIs [s]
ontime5	9952.0001482964	Sum of GTIs [s]
ontime6	9952.0001482964	Sum of GTIs [s]
ontime7	9952.0001482964	Sum of GTIs [s]
ontime8	9952.0001482964	Sum of GTIs [s]
l2events	104083	Number of level 2 events



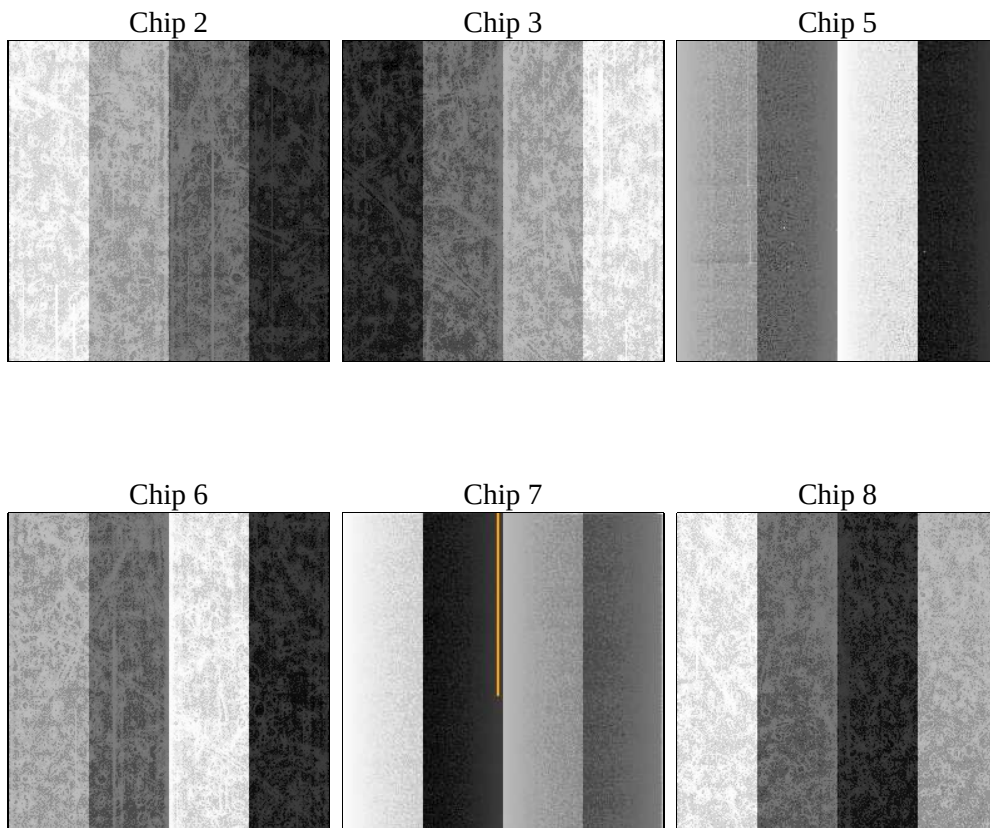
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	9952.0001482964	Sum of GTIs [s]
caldbver	4.7.1	 	ontime2	9952.0001482964	Sum of GTIs [s]
date	2016-04-04T23:53:46	Date and time of file creation	ontime3	9952.0001482964	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	9952.0001482964	Sum of GTIs [s]
			ontime6	9952.0001482964	Sum of GTIs [s]
			ontime7	9952.0001482964	Sum of GTIs [s]
			ontime8	9952.0001482964	Sum of GTIs [s]
			l1events	465098	Number of level 1 events

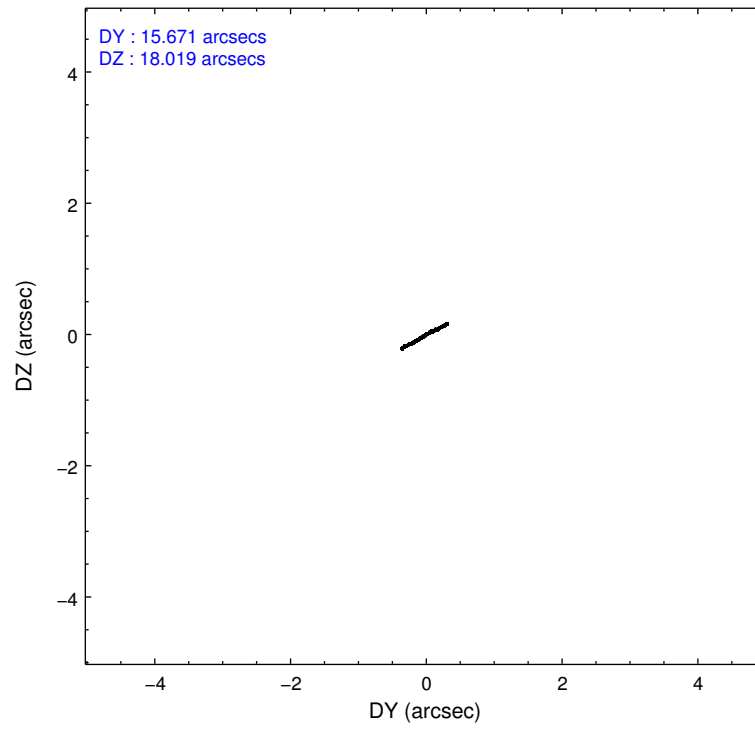
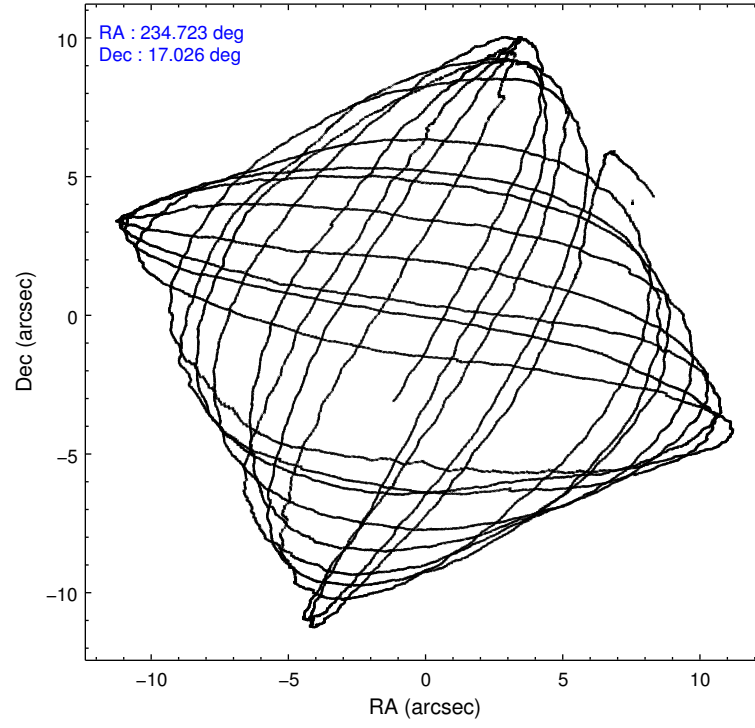
2.1.4 Events

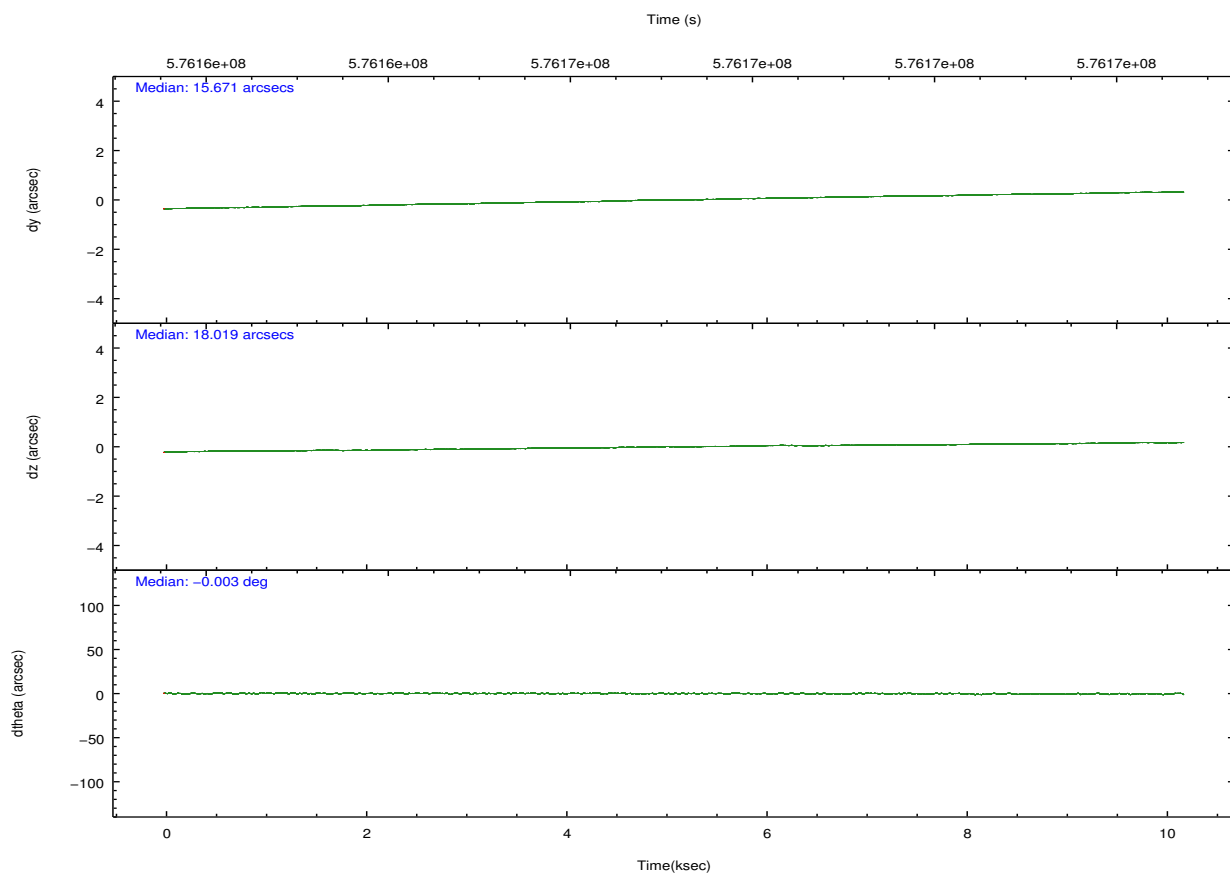
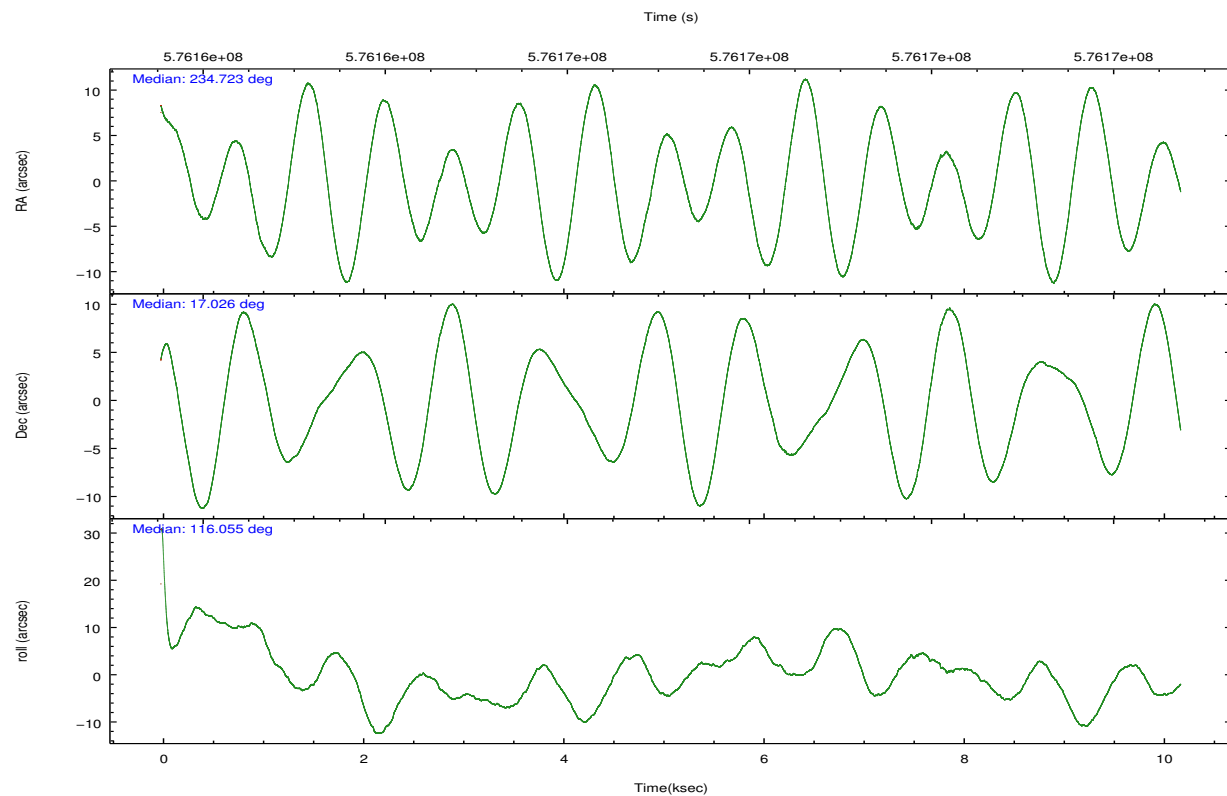
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	65021	62160	110828	64915	81519	80655	grade 0 events	2551	2295	10756	2406	2805	6028
rejected events	58071	55735	54349	57685	46596	59911		3%	3%	9%	3%	3%	7%
rejected %	89%	89%	49%	88%	57%	74%	grade 1 events	37	27	357	33	108	58
								0%	0%	0%	0%	0%	0%
							grade 2 events	1645	1370	15414	1682	7278	5018
								2%	2%	13%	2%	8%	6%
							grade 3 events	701	734	1916	695	2737	2052
								1%	1%	1%	1%	3%	2%
							grade 4 events	703	656	1899	685	2566	1965
								1%	1%	1%	1%	3%	2%
							grade 5 events	2643	2905	6684	2878	7921	4361
								4%	4%	6%	4%	9%	5%
							grade 6 events	1353	1373	26515	1763	19547	5684
								2%	2%	23%	2%	23%	7%
							grade 7 events	55388	52800	47287	54773	38557	55489
								85%	84%	42%	84%	47%	68%

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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	234.747041	234.7230439535767	CCD I2 on	O4	Y
[deg] Pointing Dec	17.010782	17.02582813472046	CCD I3 on	O3	Y
[deg] Pointing Roll	115.897594	116.0612773994031	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	Y
[s] Observation start time (MET)	576162212.184000	576160728.70279	CCD S5 on	N	N
Observation start date	2016-04-04T13:02:24	2016-04-04T12:38:48	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	576172212.184000	576172742.72847	On-chip summing requested	N	N
Observation end date	2016-04-04T15:49:04	2016-04-04T15:59:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



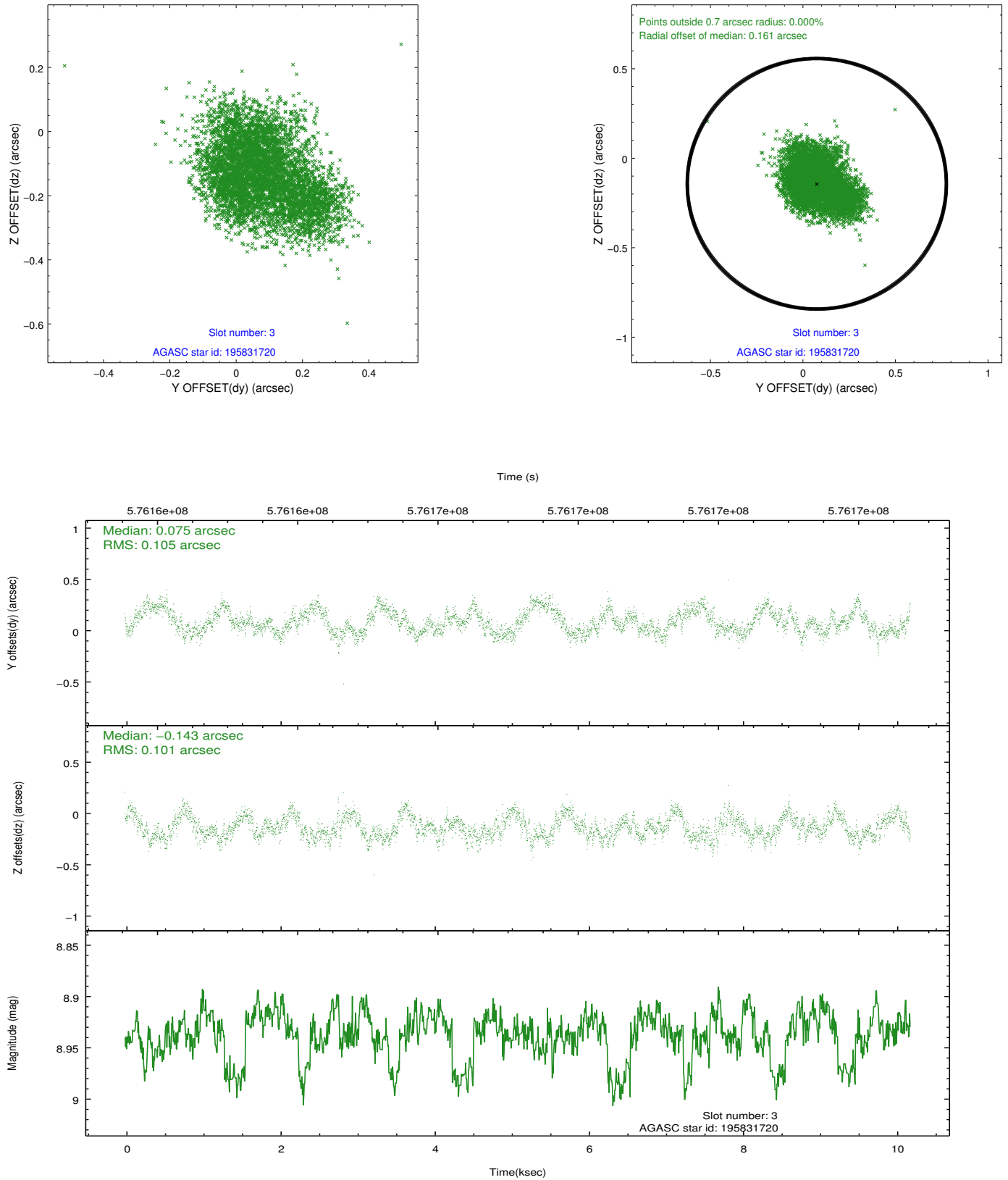


Slot Statistics

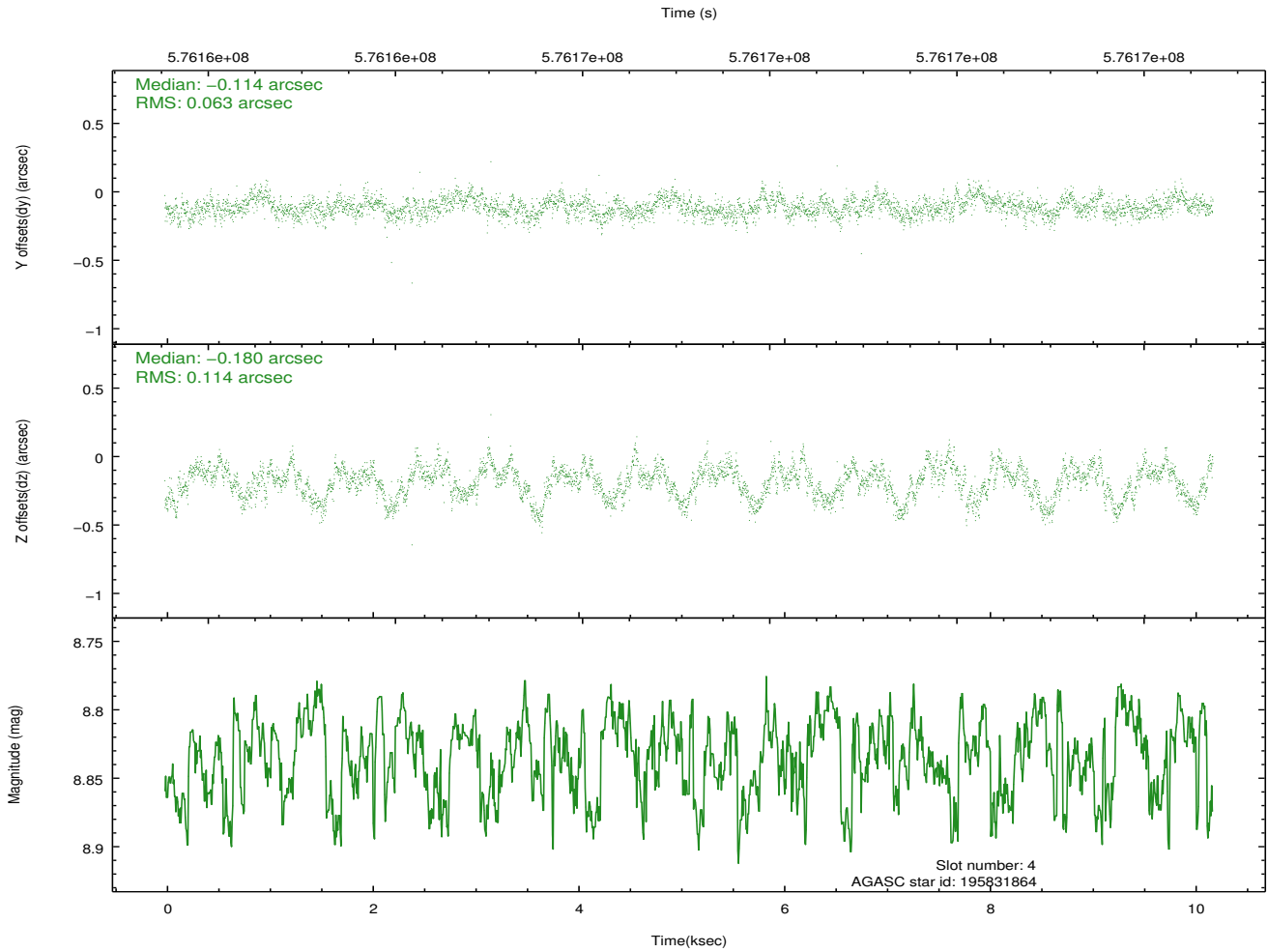
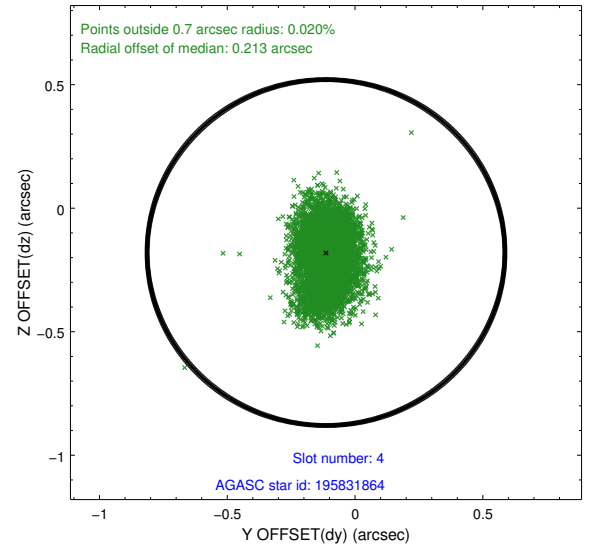
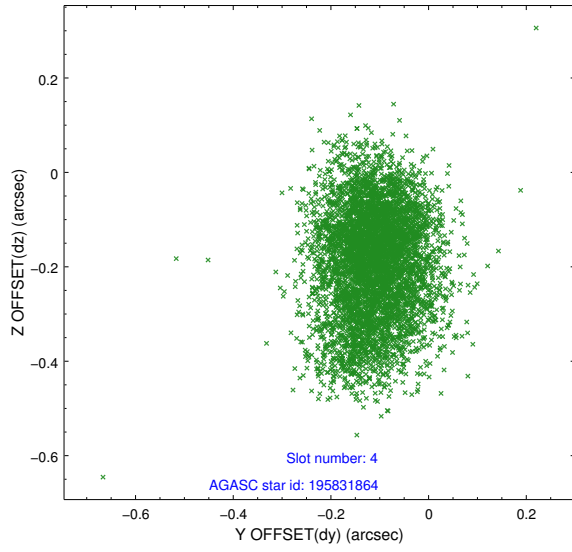
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	2486	-0.178	-0.144	0.007	0.012	0.000000	0.000000	-768.84	-1739.55
1	FID		ACIS-S-4	7.22	2485	0.442	0.124	0.008	0.014	0.000000	0.000000	2144.83	168.63
2	FID		ACIS-S-5	7.24	2486	-0.296	0.028	0.009	0.014	0.000000	0.000000	-1821.13	162.84
3	GUIDE	used	195831720	8.94	4968	0.075	-0.143	0.157	0.242	234.611496	16.424151	-1693.24	1344.72
4	GUIDE	used	195831864	8.83	4967	-0.114	-0.180	0.137	0.232	234.506035	17.247770	1130.62	373.73
5	GUIDE	used	195833384	7.42	4971	-0.182	-0.380	0.146	0.221	234.388986	16.529654	-1017.59	1868.34
6	GUIDE	used	195954232	9.69	4961	0.019	0.210	0.271	0.414	235.096904	17.398123	731.03	-1689.62
7	GUIDE	used	195956552	8.89	4966	0.188	0.487	0.121	0.221	235.195475	16.595103	-2019.59	-738.60

2.4 Star Slots

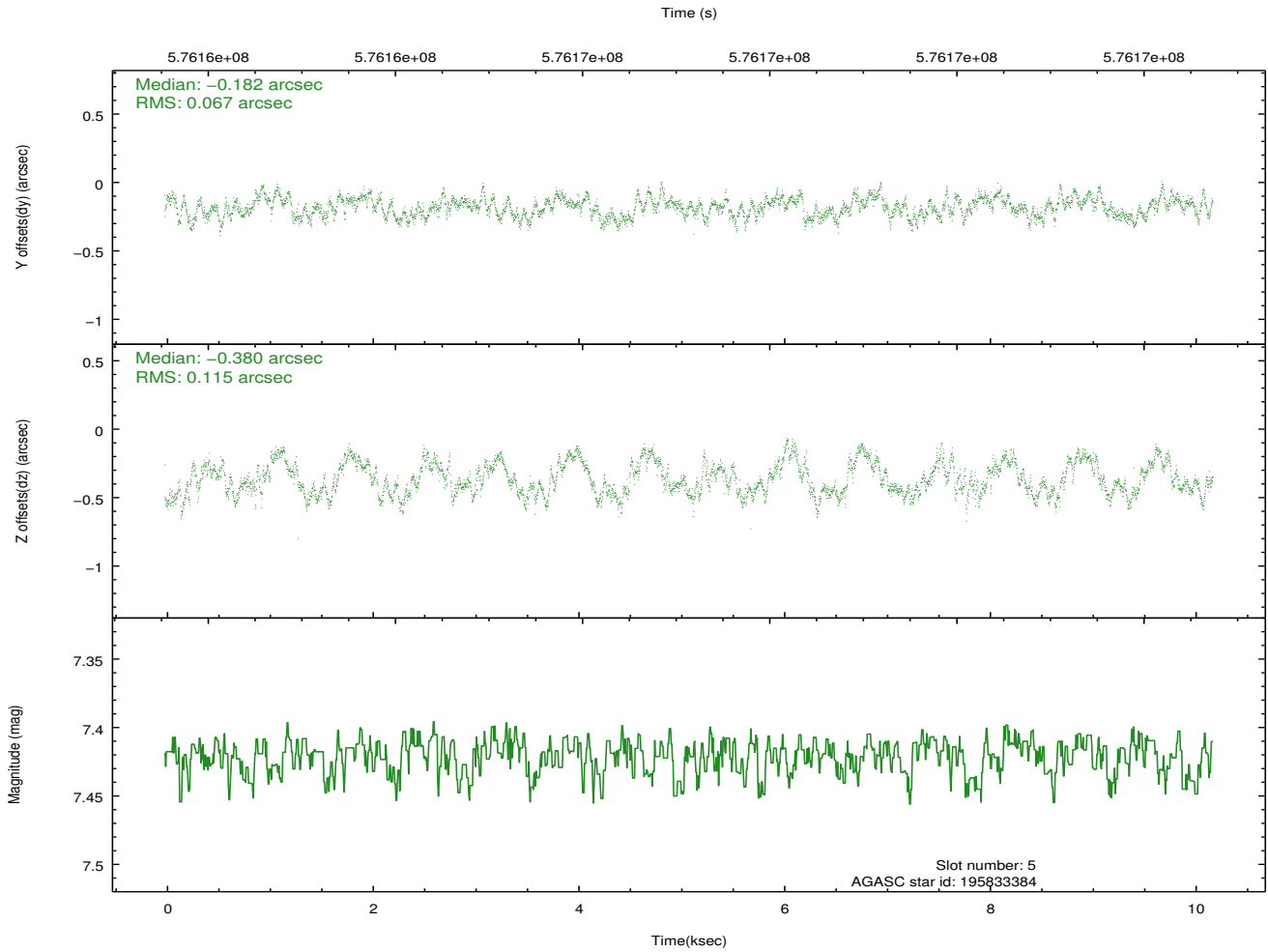
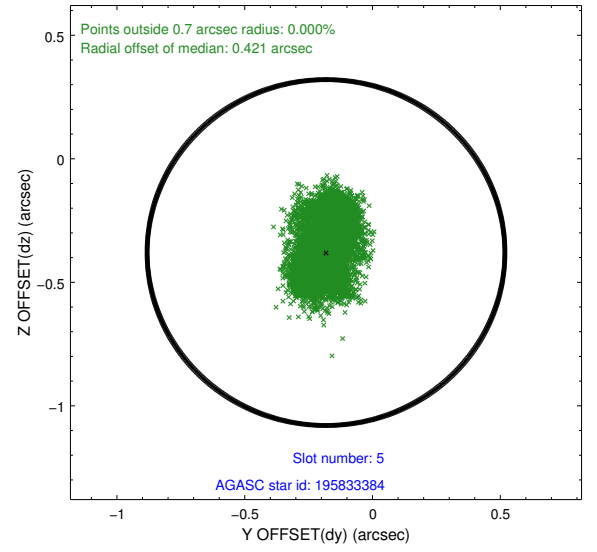
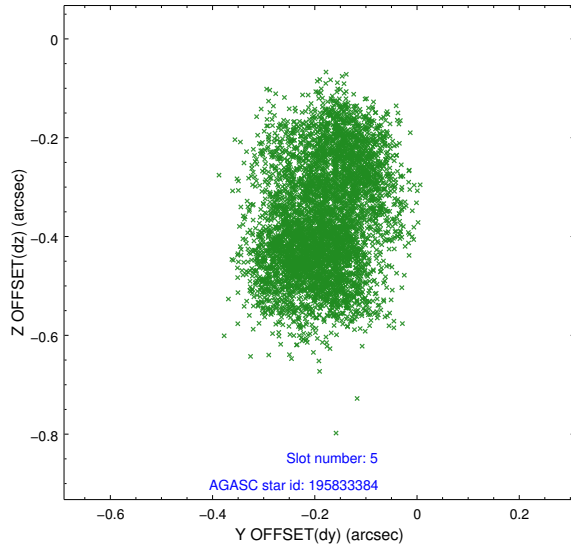
2.4.1 Slot 3



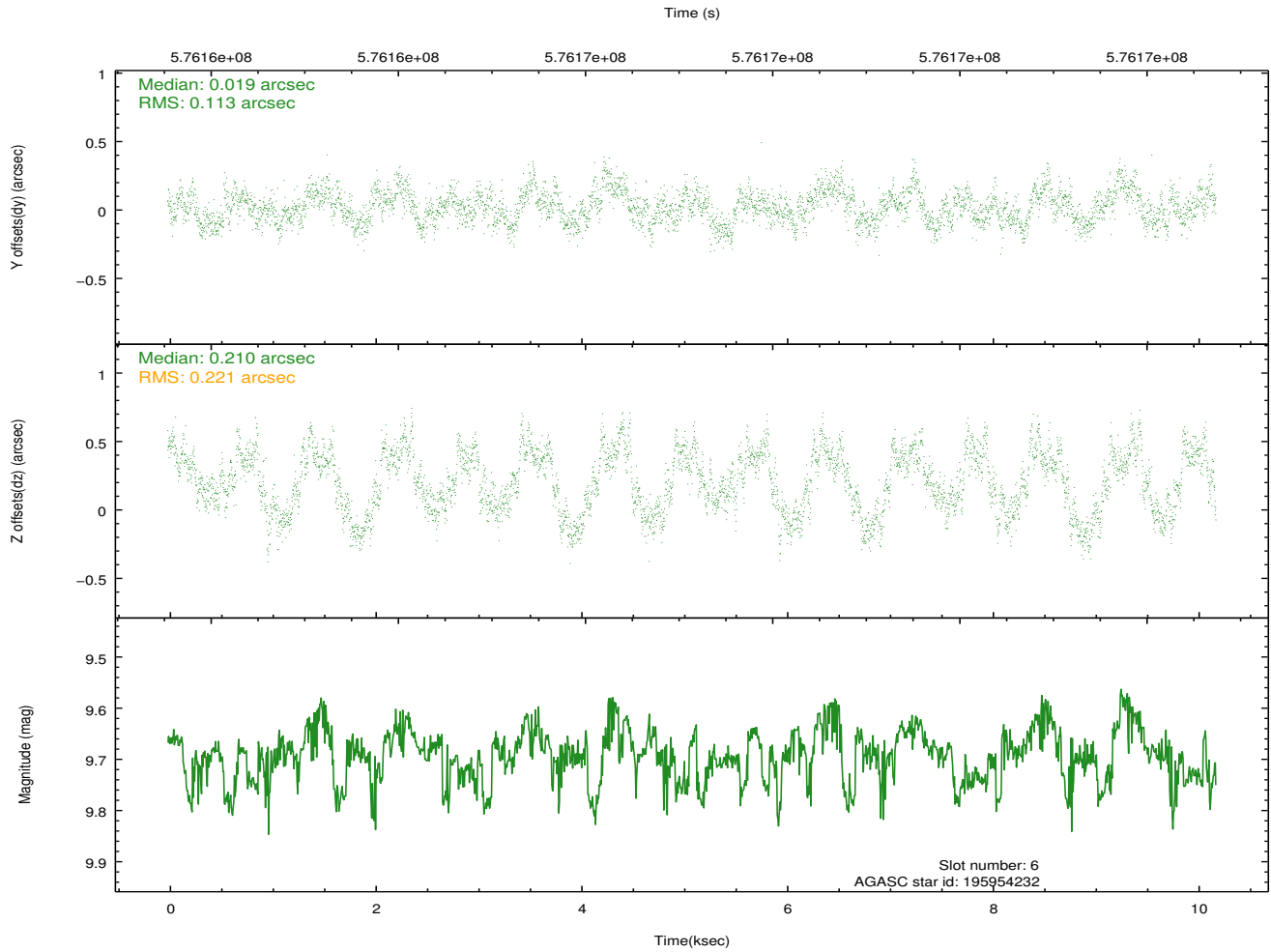
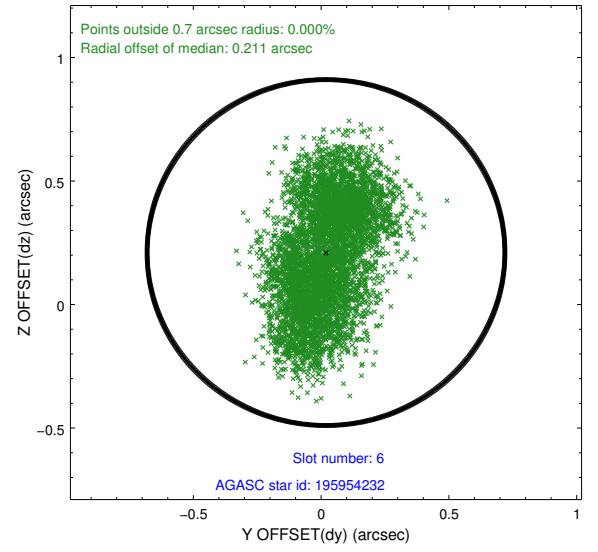
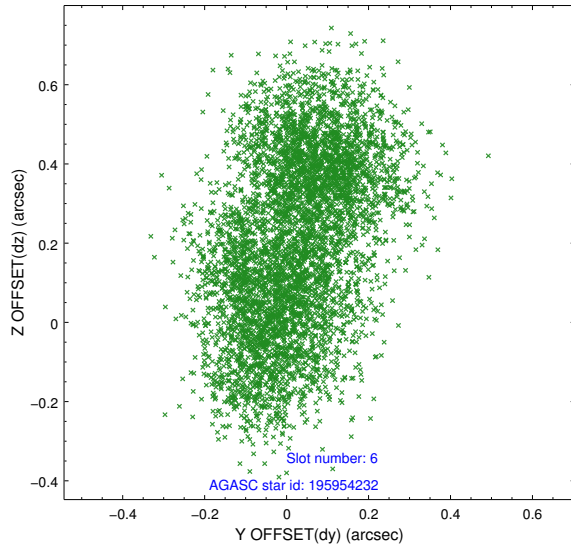
2.4.2 Slot 4



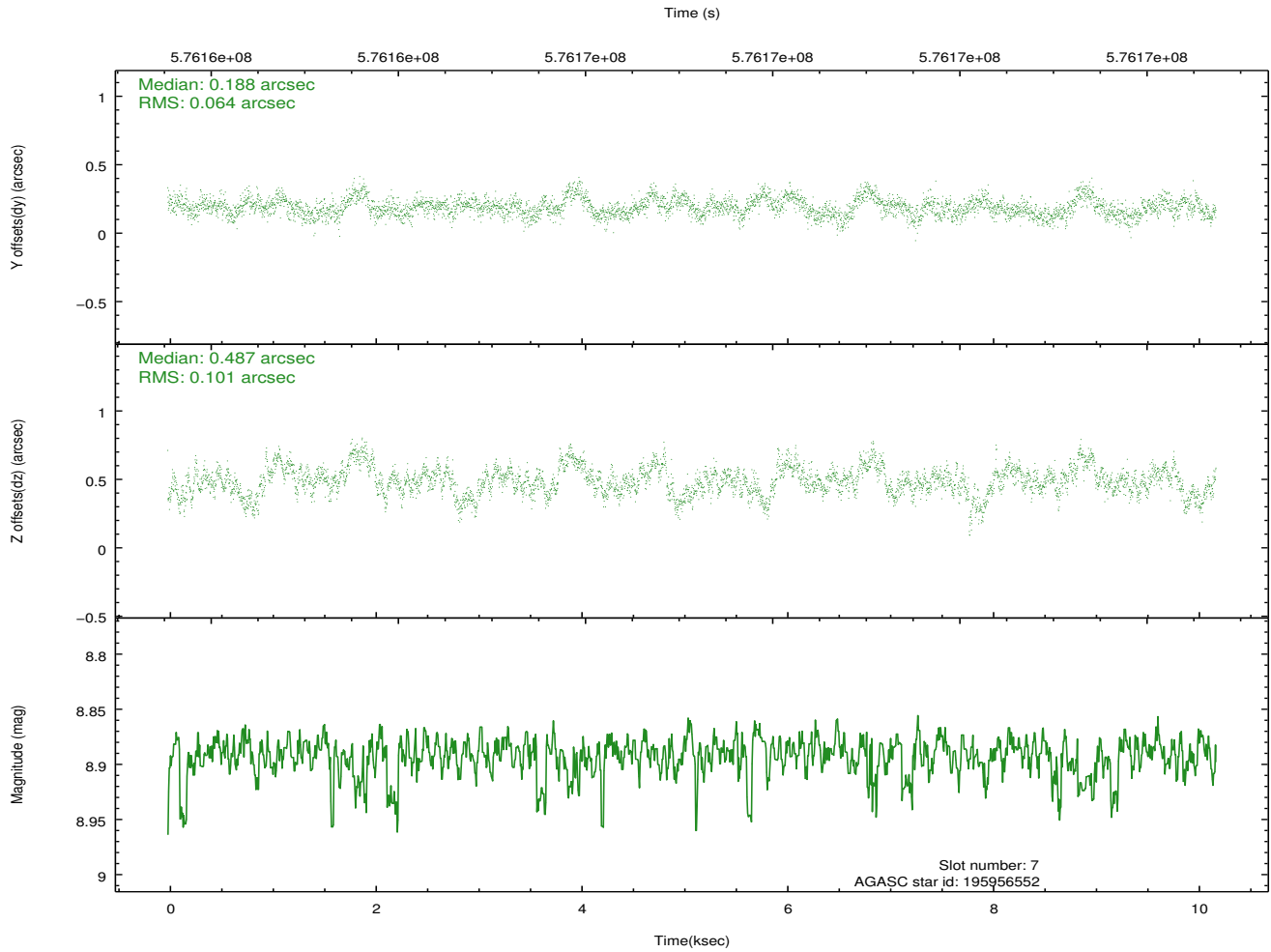
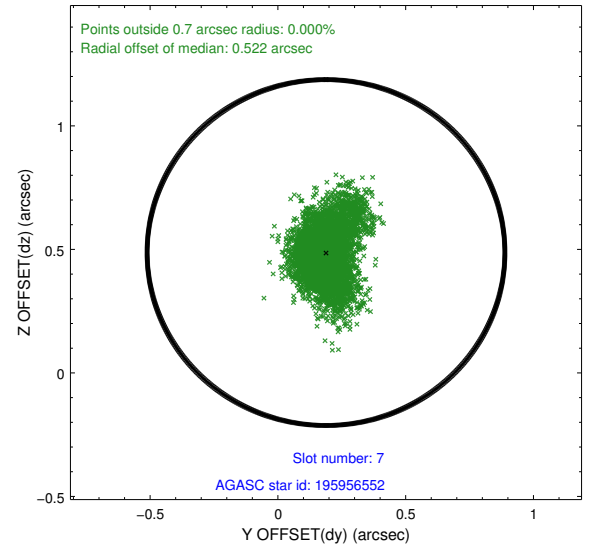
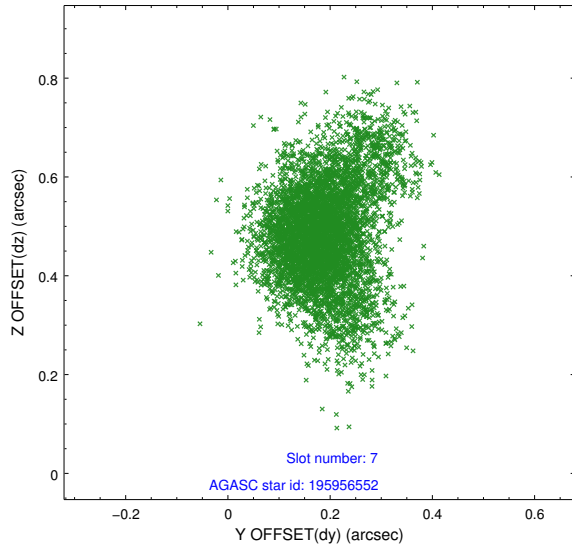
2.4.3 Slot 5



2.4.4 Slot 6

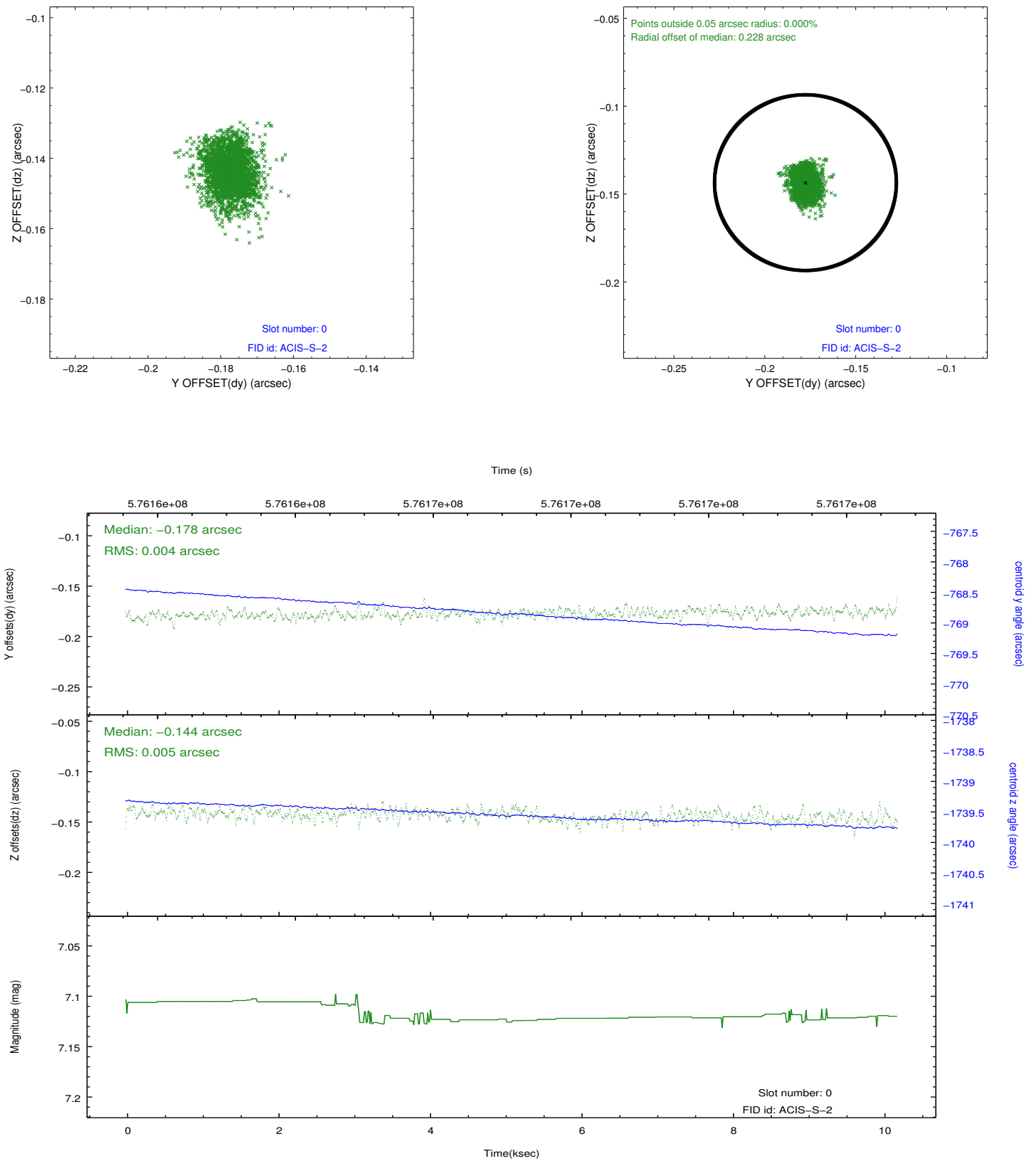


2.4.5 Slot 7

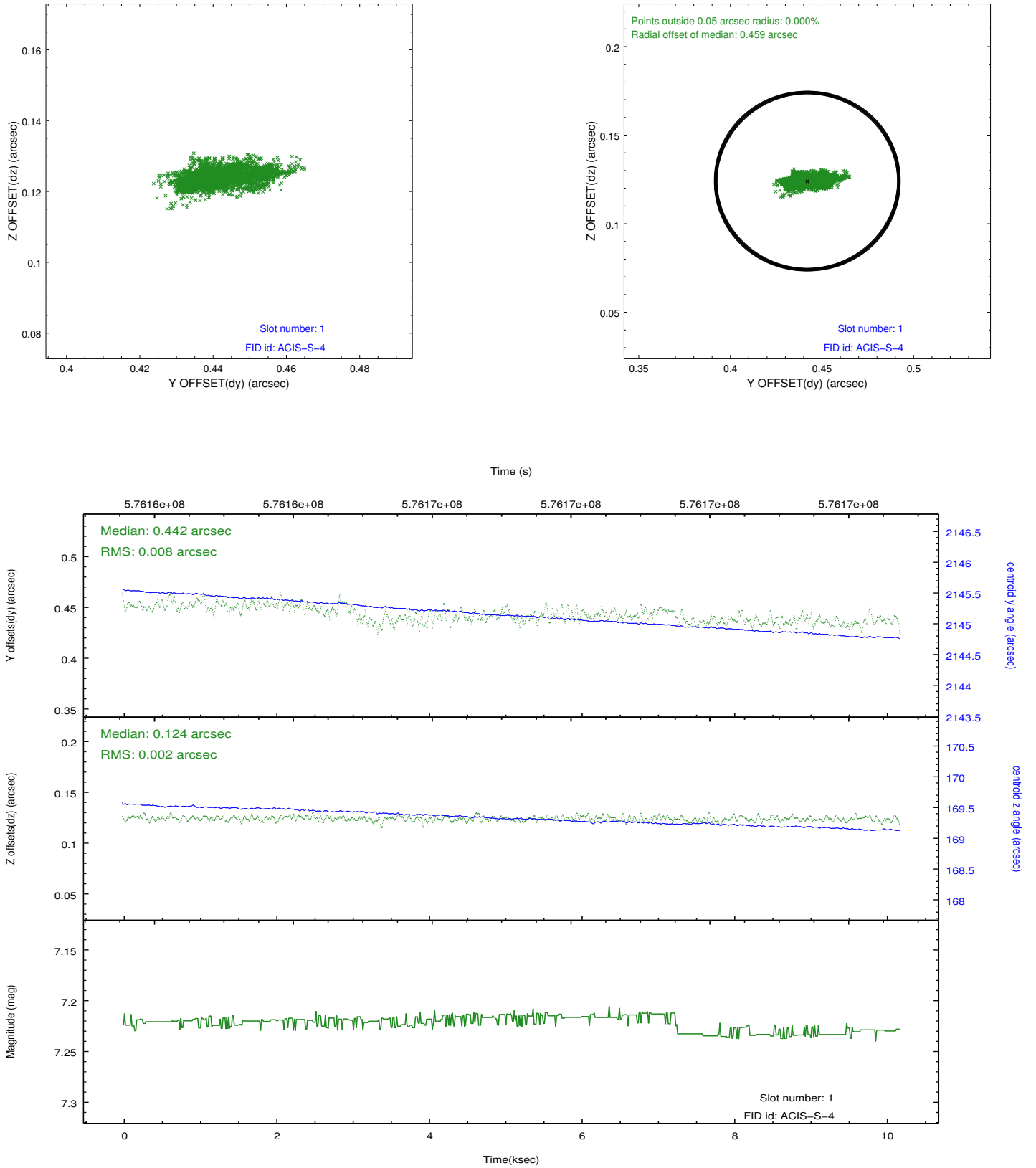


2.5 FID Slots

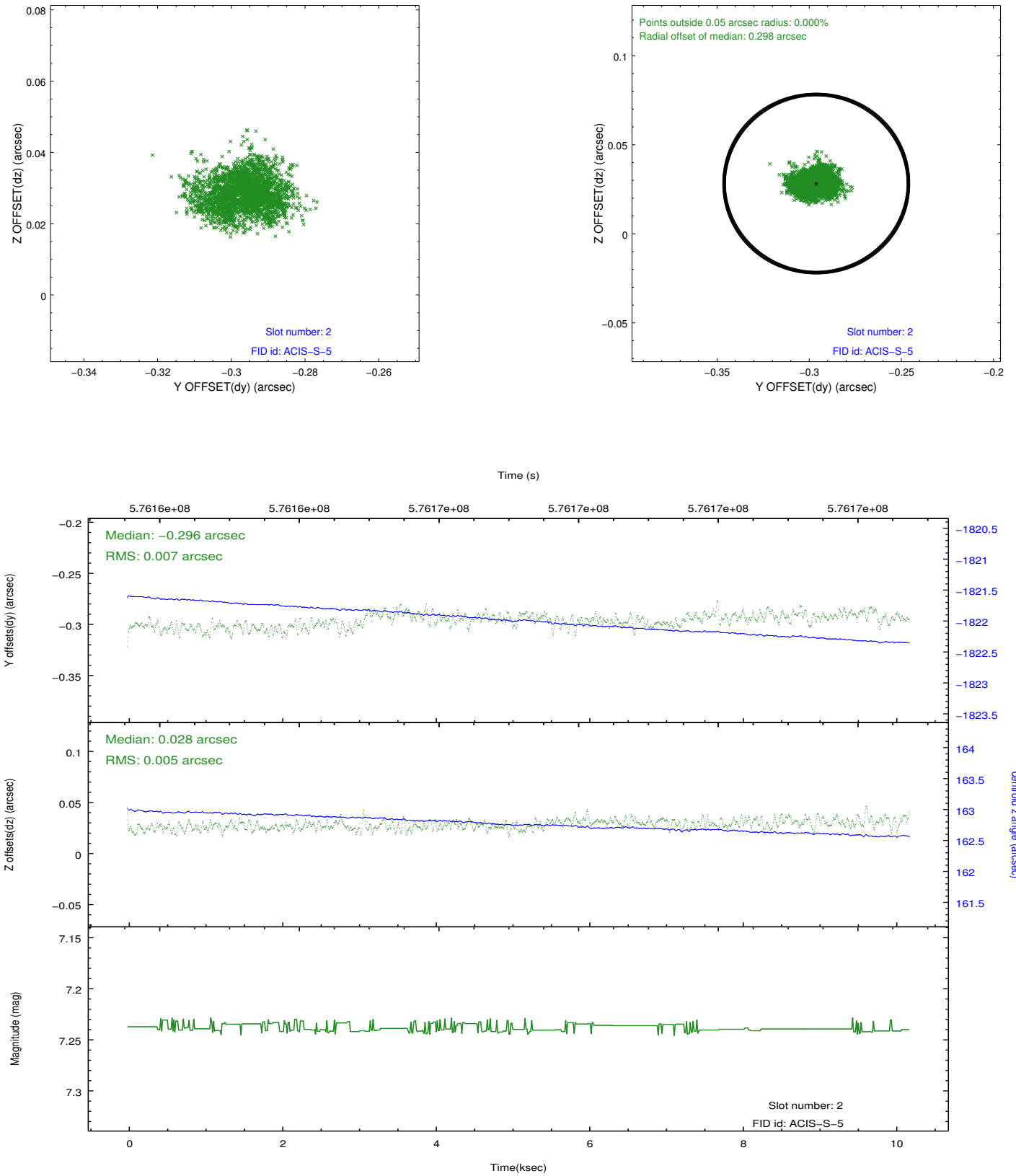
2.5.1 Slot 0



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)	2016.04.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9520001482964

A.2 Comments