

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 18979 - L2 Version 1
Chandra X-Ray Center

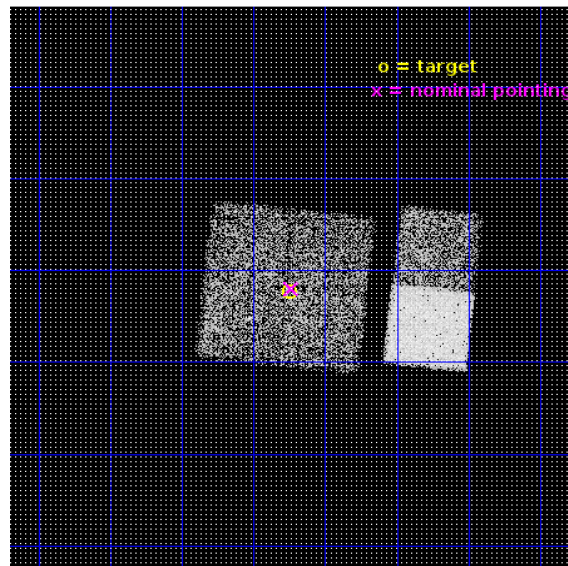
L2 Processing Date : Sep 10 2017

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1 Front

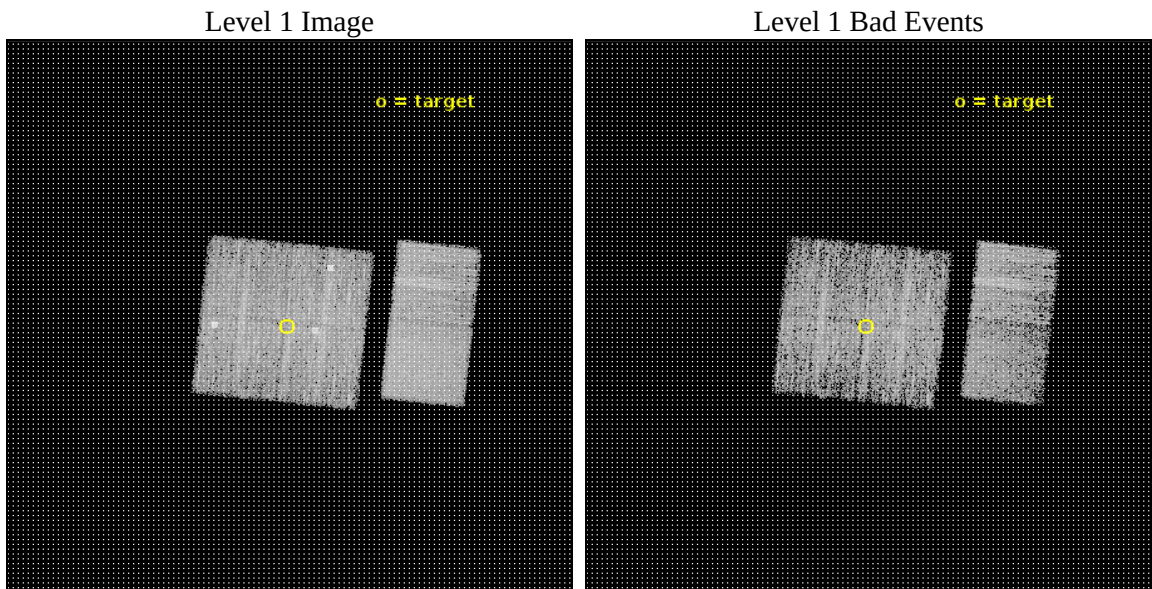
seq_num	401847	Sequence number
obs_id	18979	Observation id
title	The Nature of INTEGRAL Sources in the Galactic Plane	Proposal titl
observer	John Tomsick	Principal investigator
object	IGR J07202+0009	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	110.062917	Observer's specified target RA [deg]
dec_targ	0.127	Observer's specified target Dec [deg]
ra_nom	110.05882335267	Nominal RA [deg]
dec_nom	0.13301385787792	Nominal Dec [deg]
roll_nom	96.126831085115	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4959.62583673	Sum of GTIs [s]
livetime	4896.8240680572	Livetime [s]
ontime0	4956.26164639	Sum of GTIs [s]
ontime1	4959.5437567234	Sum of GTIs [s]
ontime2	4959.5847967863	Sum of GTIs [s]
ontime3	4959.62583673	Sum of GTIs [s]
ontime6	4959.7079167366	Sum of GTIs [s]
ontime7	4959.6668767929	Sum of GTIs [s]
l2events	32305	Number of level 2 events



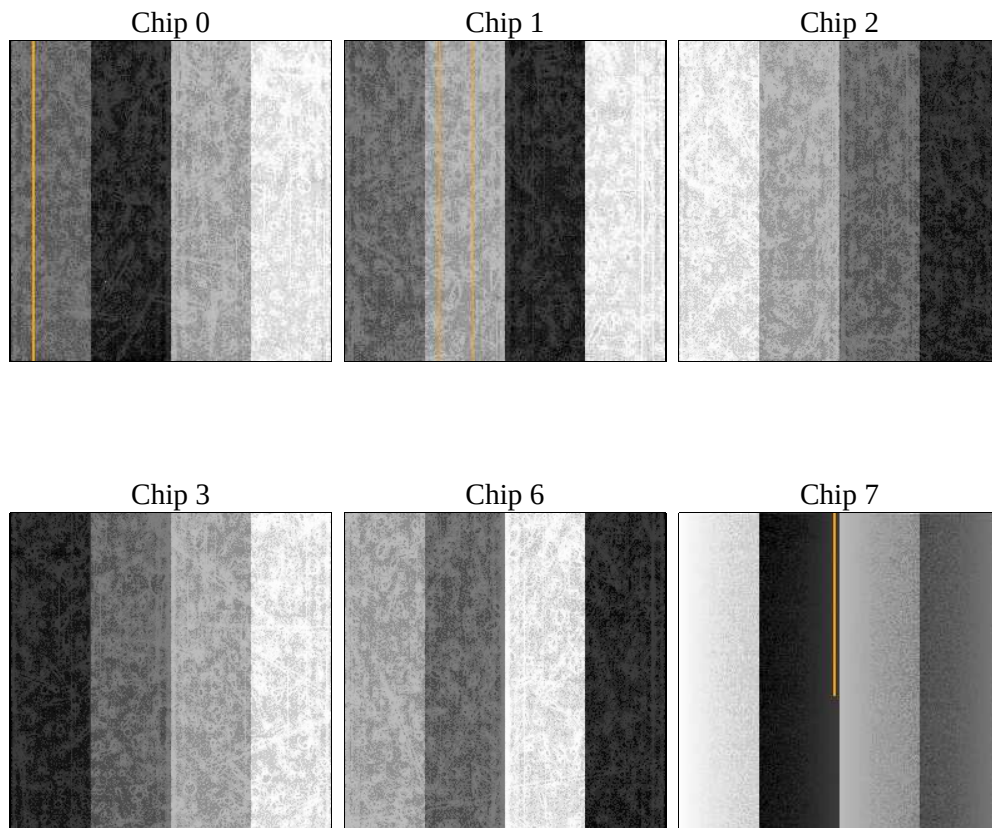
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	4959.62583673	Sum of GTIs [s]
caldbver	4.7.6	 	ontime0	4956.26164639	Sum of GTIs [s]
date	2017-09-10T21:39:47	Date and time of file creation	ontime1	4959.5437567234	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4959.5847967863	Sum of GTIs [s]
			ontime3	4959.62583673	Sum of GTIs [s]
			ontime6	4959.7079167366	Sum of GTIs [s]
			ontime7	4959.6668767929	Sum of GTIs [s]
			l1events	203524	Number of level 1 events

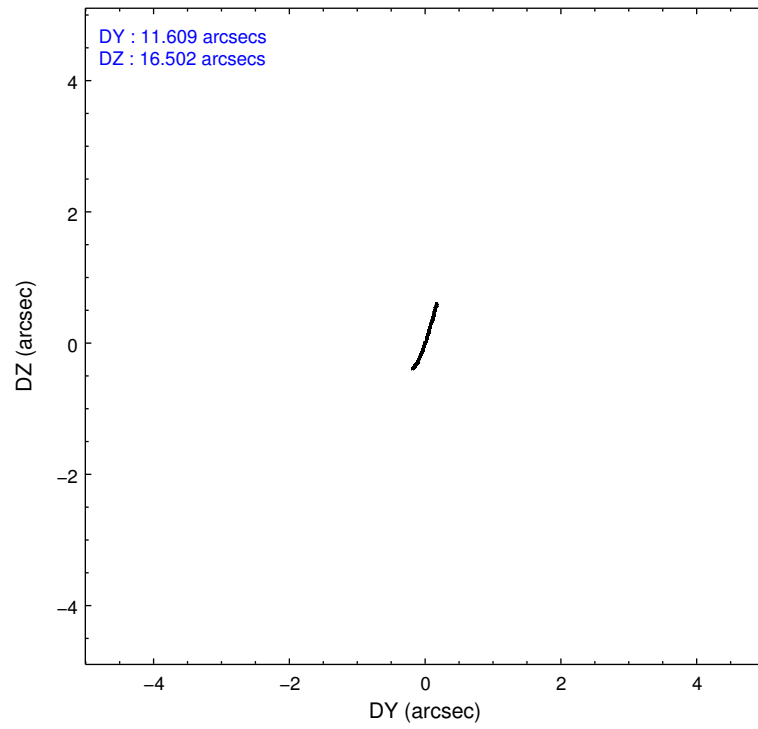
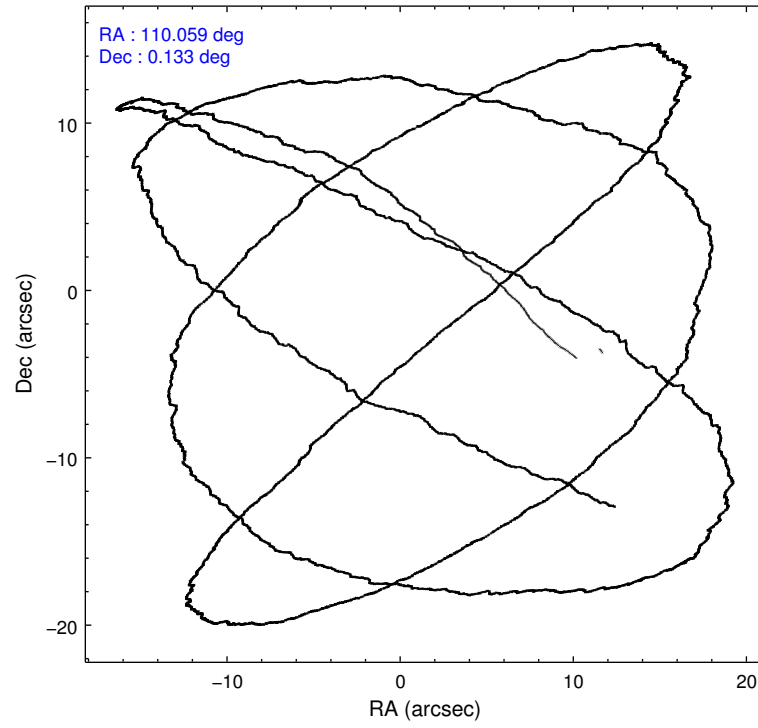
2.1.4 Events

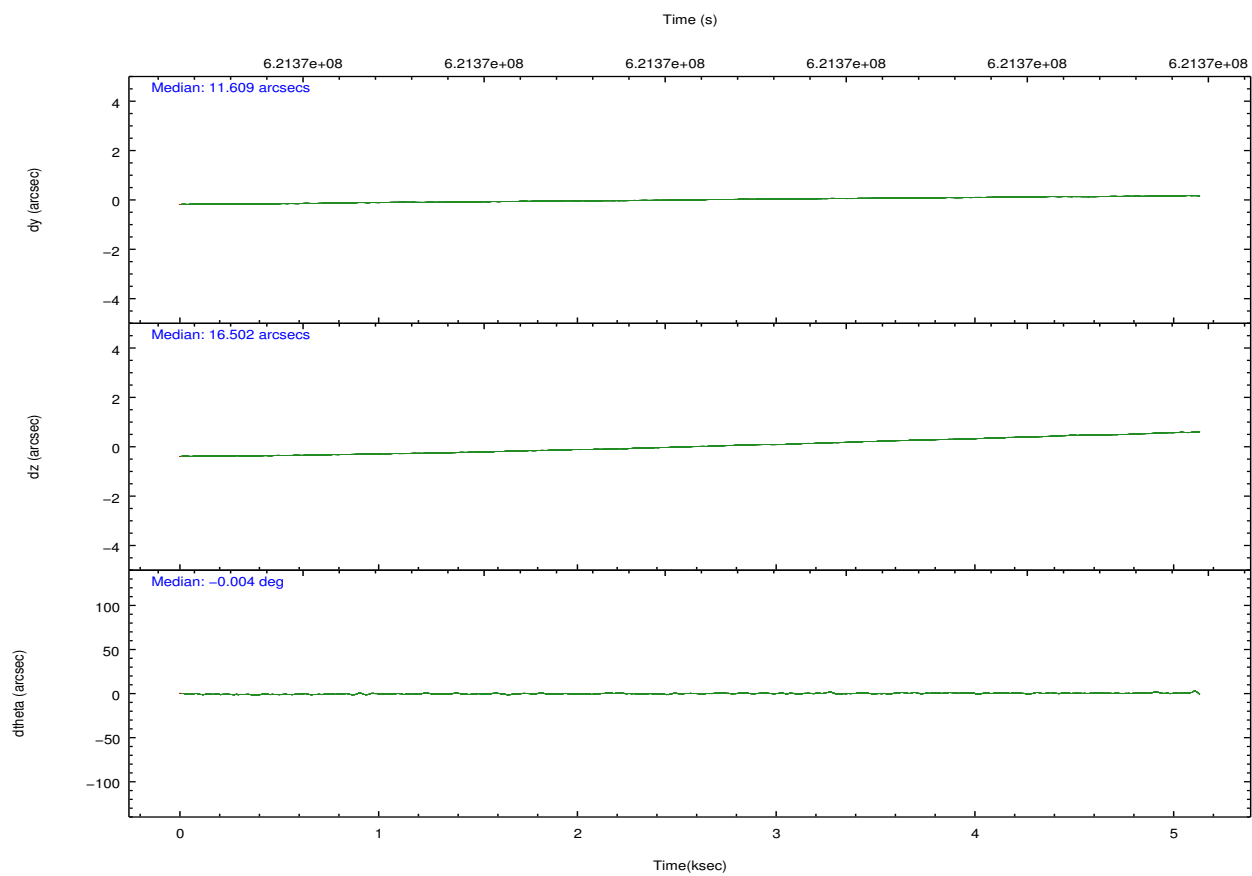
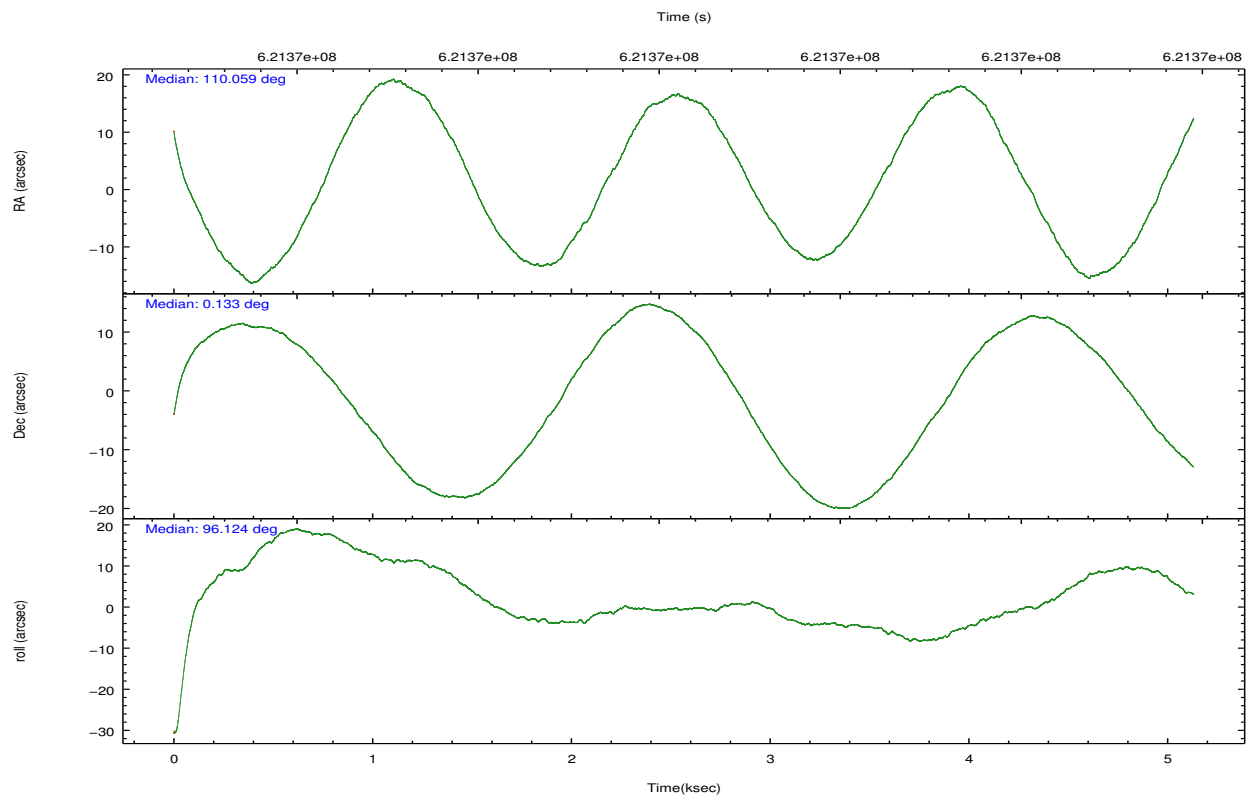
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	27760	31332	34148	32785	36405	41094	grade 0 events	1298	2751	2749	2161	1331	1550
rejected events	24111	26083	29106	28433	32588	23233		4%	8%	8%	6%	3%	3%
rejected %	86%	83%	85%	86%	89%	56%	grade 1 events	12	24	17	33	14	68
								0%	0%	0%	0%	0%	0%
							grade 2 events	955	945	933	766	944	3774
								3%	3%	2%	2%	2%	9%
							grade 3 events	309	331	326	343	346	1469
								1%	1%	0%	1%	0%	3%
							grade 4 events	350	370	366	365	323	1411
								1%	1%	1%	1%	0%	3%
							grade 5 events	1286	1426	1275	1408	1496	3918
								4%	4%	3%	4%	4%	9%
							grade 6 events	742	857	673	723	876	9683
								2%	2%	1%	2%	2%	23%
							grade 7 events	22808	24628	27809	26986	31075	19221
								82%	78%	81%	82%	85%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	110.075578	110.0588233526667	CCD I2 on	Y	Y
[deg] Pointing Dec	0.110379	0.1330138578779236	CCD I3 on	Y	Y
[deg] Pointing Roll	95.918202	96.12683108511538	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	621368706.184000	621367531.70321	CCD S5 on	N	N
Observation start date	2017-09-09T18:23:57	2017-09-09T18:05:31	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	621373706.184000	621374496.06612	On-chip summing requested	N	N
Observation end date	2017-09-09T19:47:17	2017-09-09T20:01:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



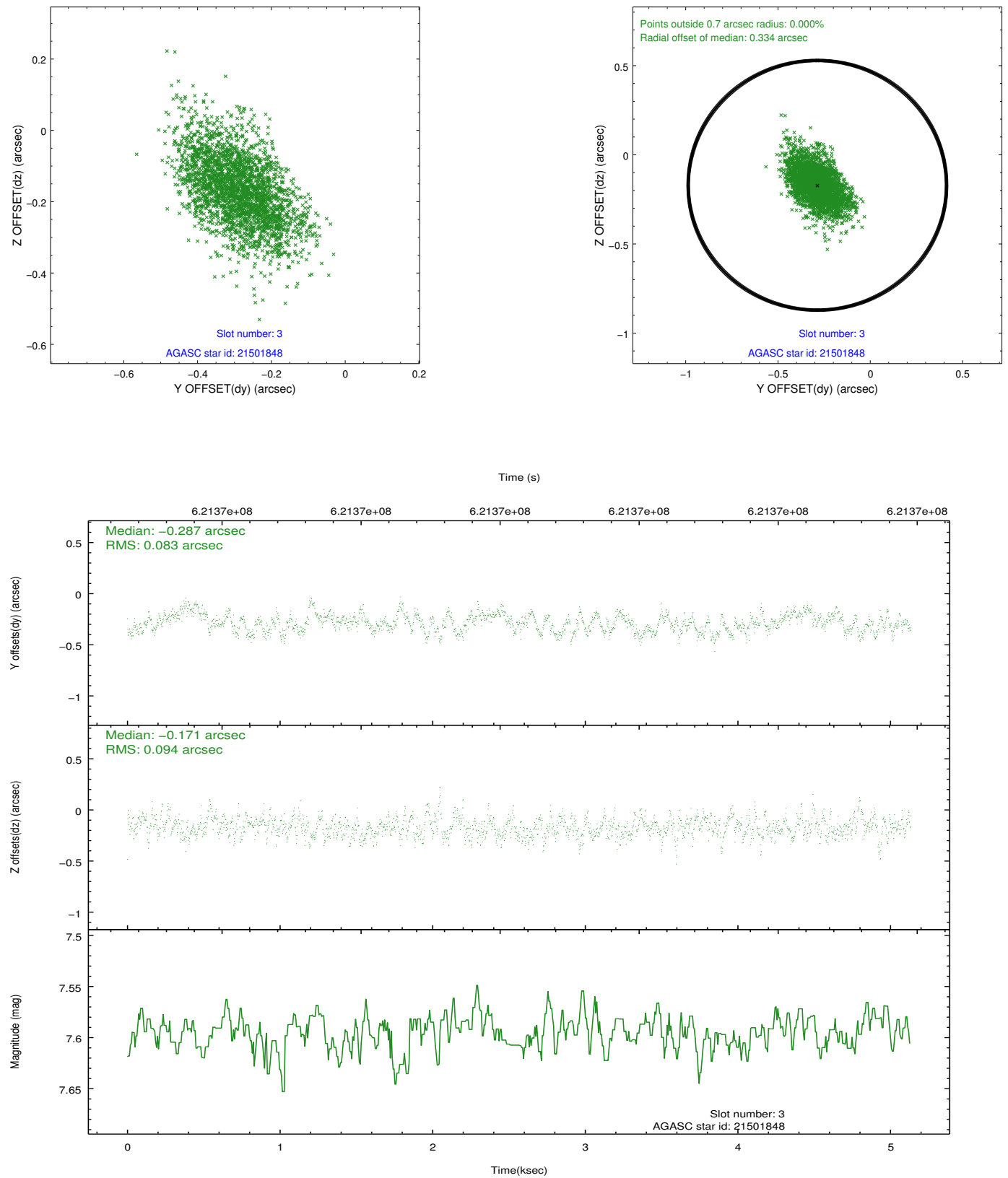


Slot Statistics

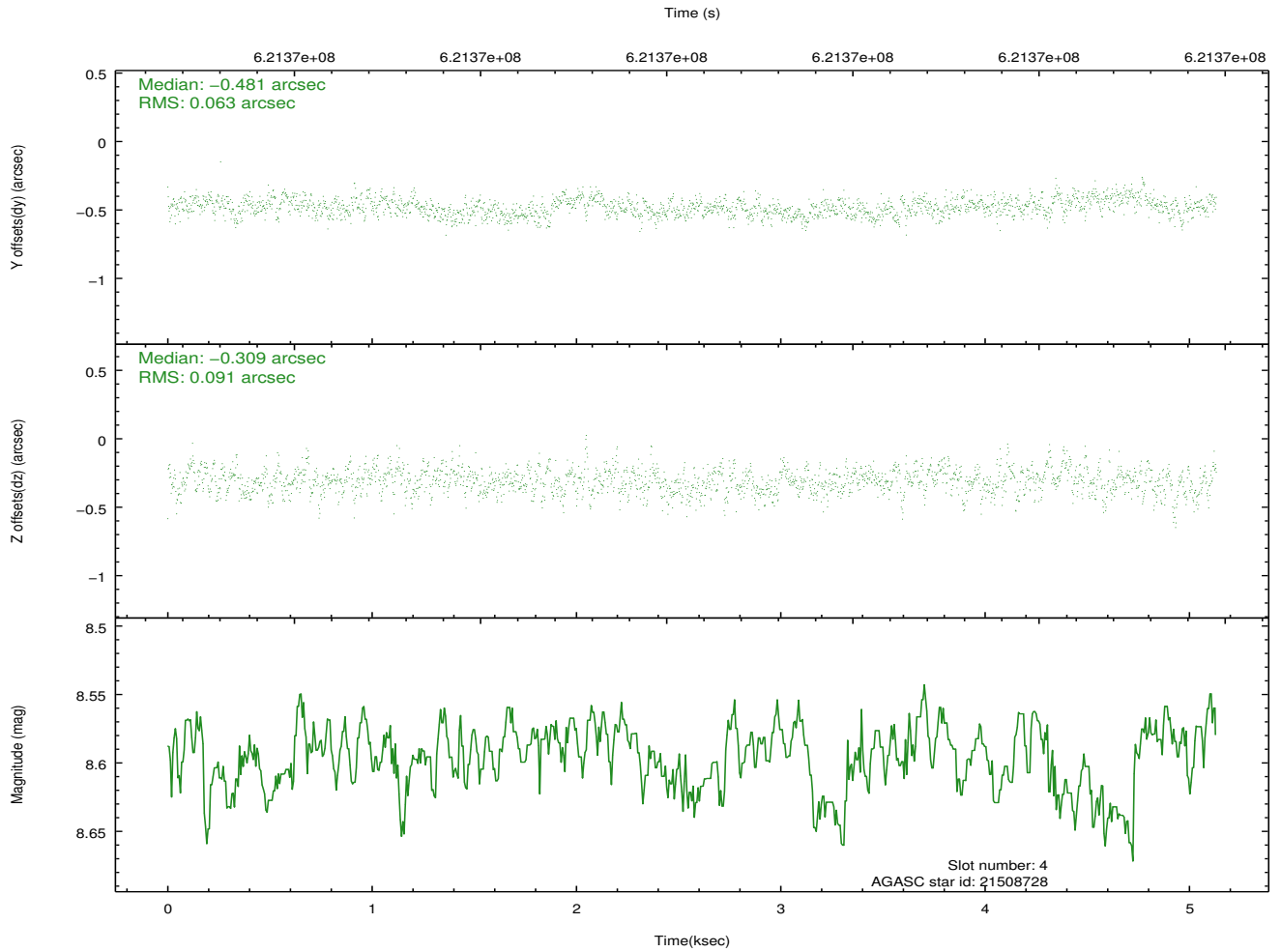
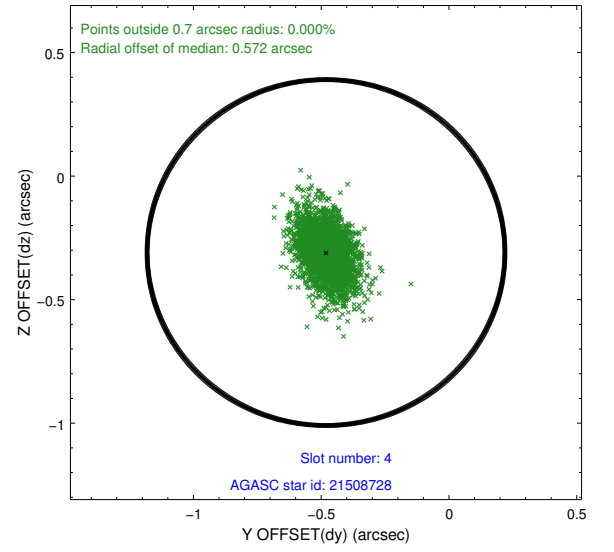
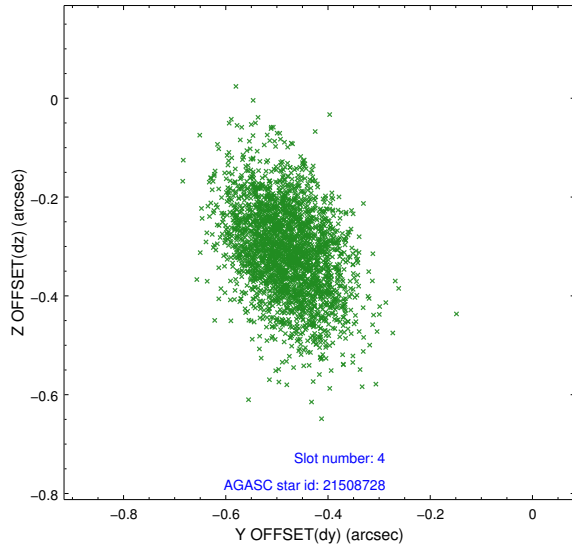
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.17	1252	0.091	-0.098	0.010	0.020	0.000000	0.000000	928.06	-840.25
1	FID		ACIS-I-5	7.17	1252	-0.345	0.043	0.008	0.013	0.000000	0.000000	-1819.89	1056.70
2	FID		ACIS-I-6	7.16	1252	0.163	0.126	0.014	0.027	0.000000	0.000000	392.31	1702.69
3	GUIDE	used	21501848	7.59	2503	-0.287	-0.171	0.130	0.221	109.650413	0.278655	758.69	1458.57
4	GUIDE	used	21508728	8.59	2503	-0.481	-0.309	0.113	0.197	109.729410	0.669971	2130.73	1030.94
5	GUIDE	used	631254352	8.90	2504	0.517	0.572	0.130	0.225	110.498898	-0.373185	-1888.86	-1336.43
6	GUIDE	used	631393408	7.24	2502	0.452	0.560	0.128	0.220	110.628520	-0.259356	-1530.94	-1843.66
7	GUIDE	used	21502488	8.91	2500	-0.211	-0.650	0.136	0.232	109.421505	0.134605	327.66	2333.20

2.4 Star Slots

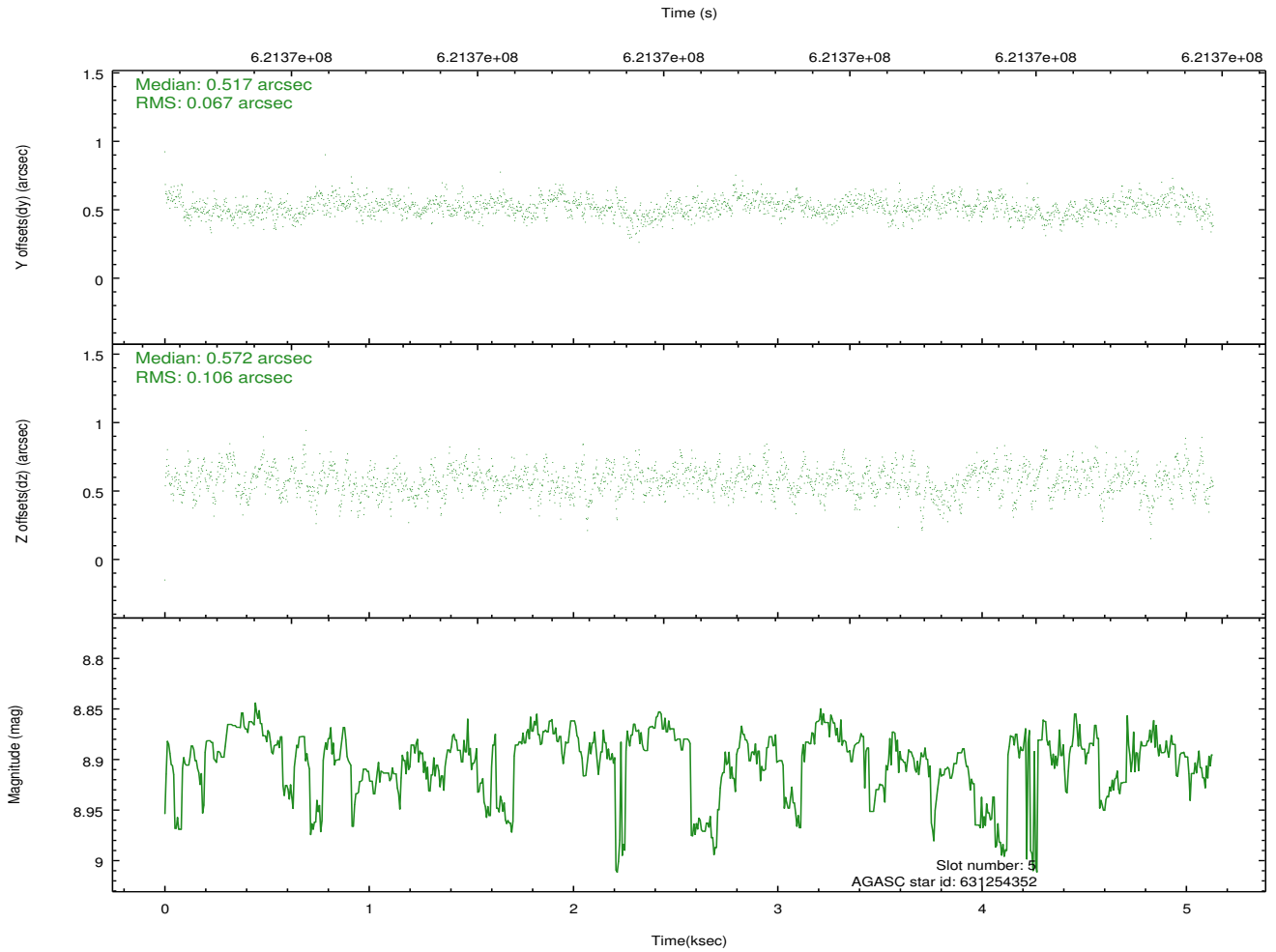
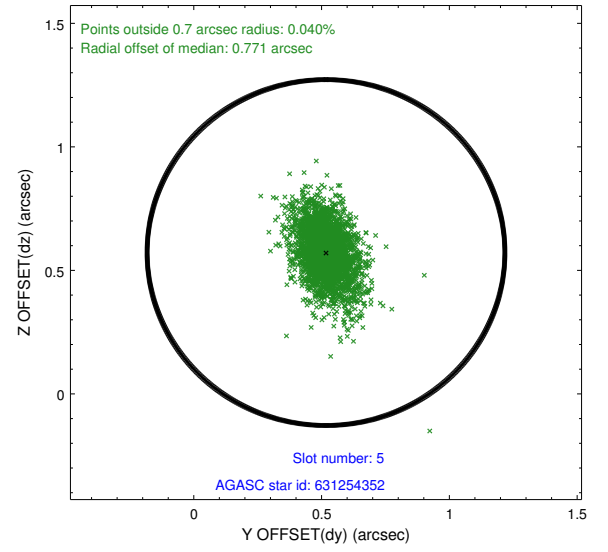
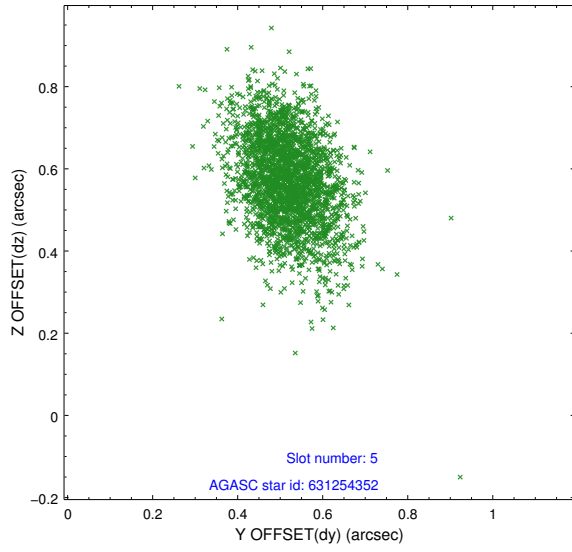
2.4.1 Slot 3



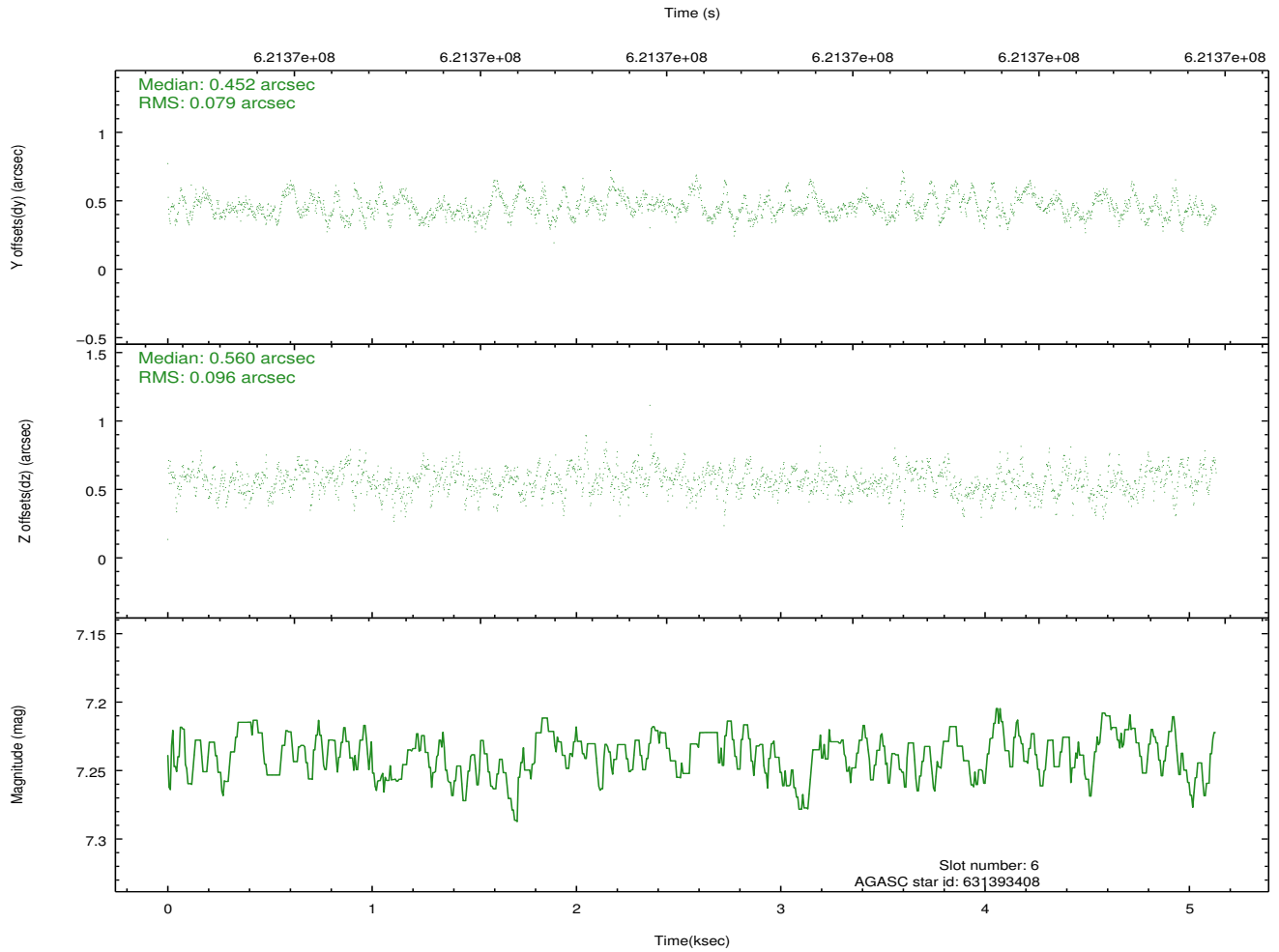
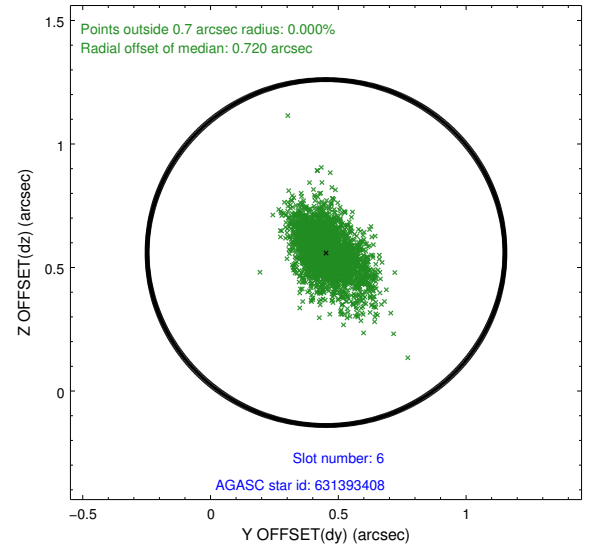
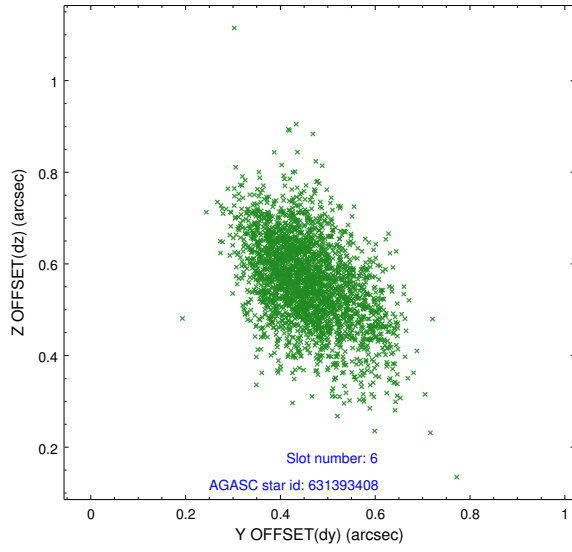
2.4.2 Slot 4



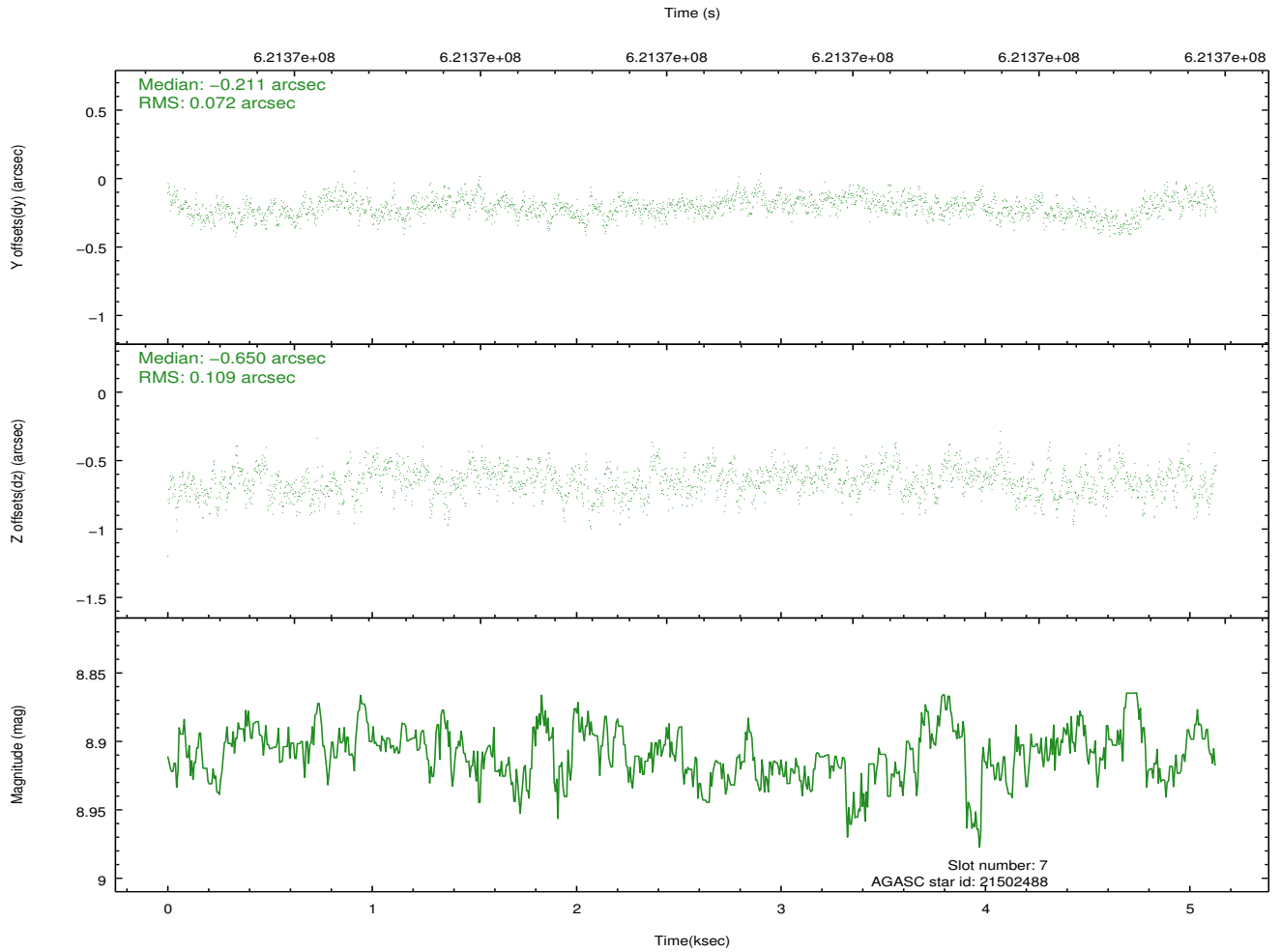
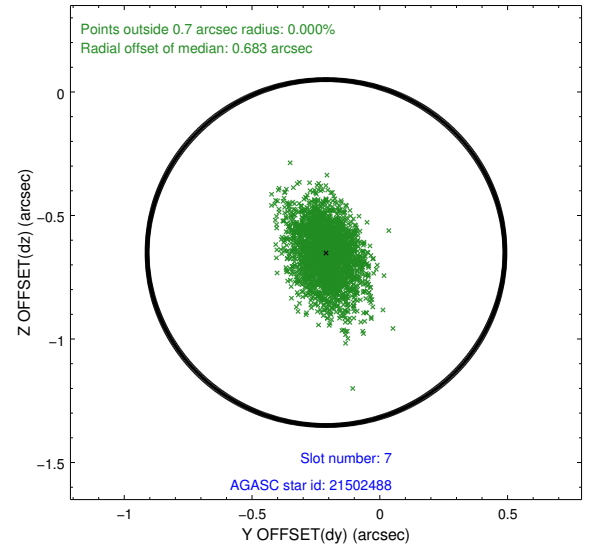
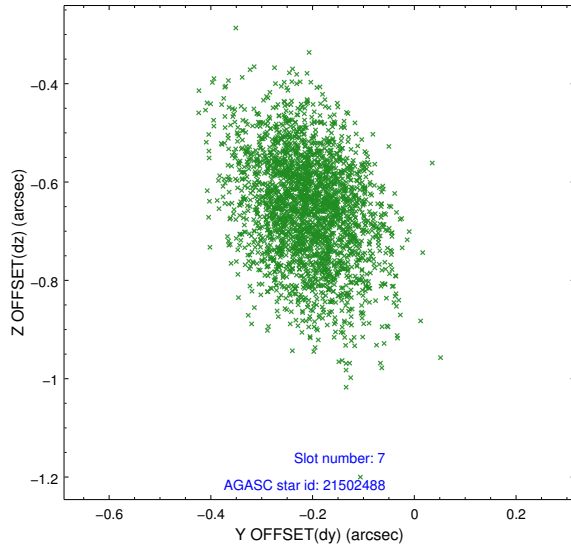
2.4.3 Slot 5



2.4.4 Slot 6

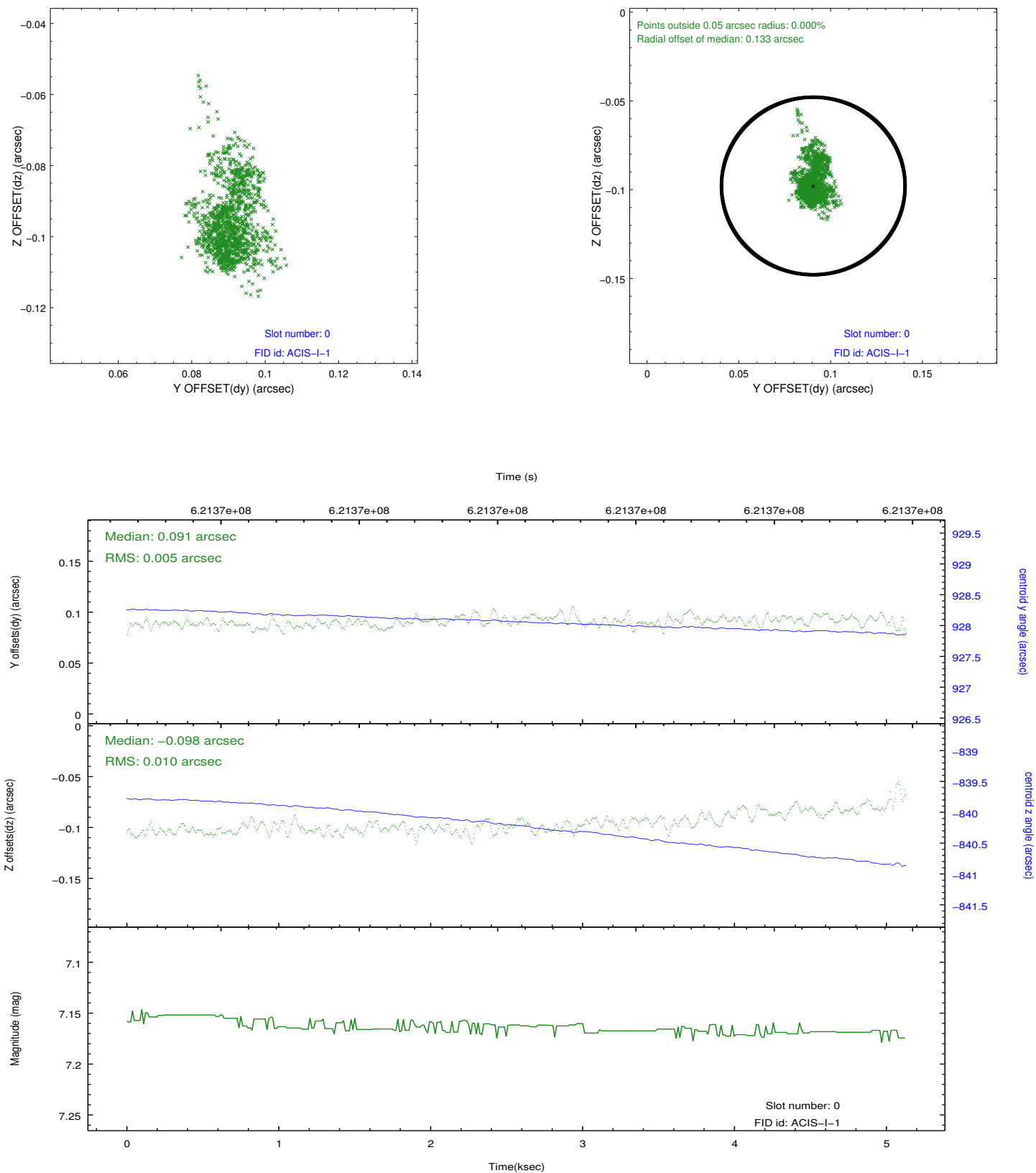


2.4.5 Slot 7

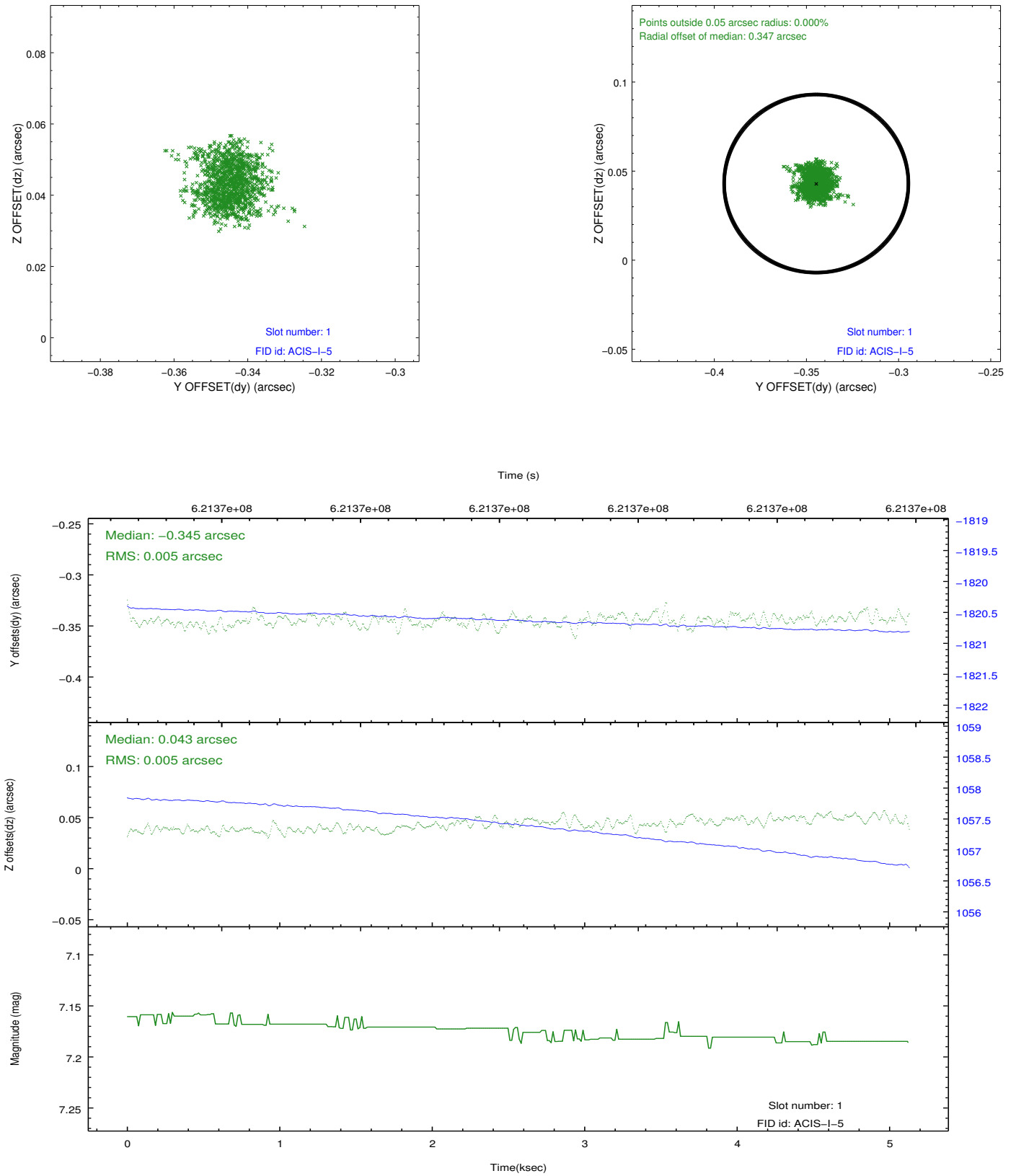


2.5 FID Slots

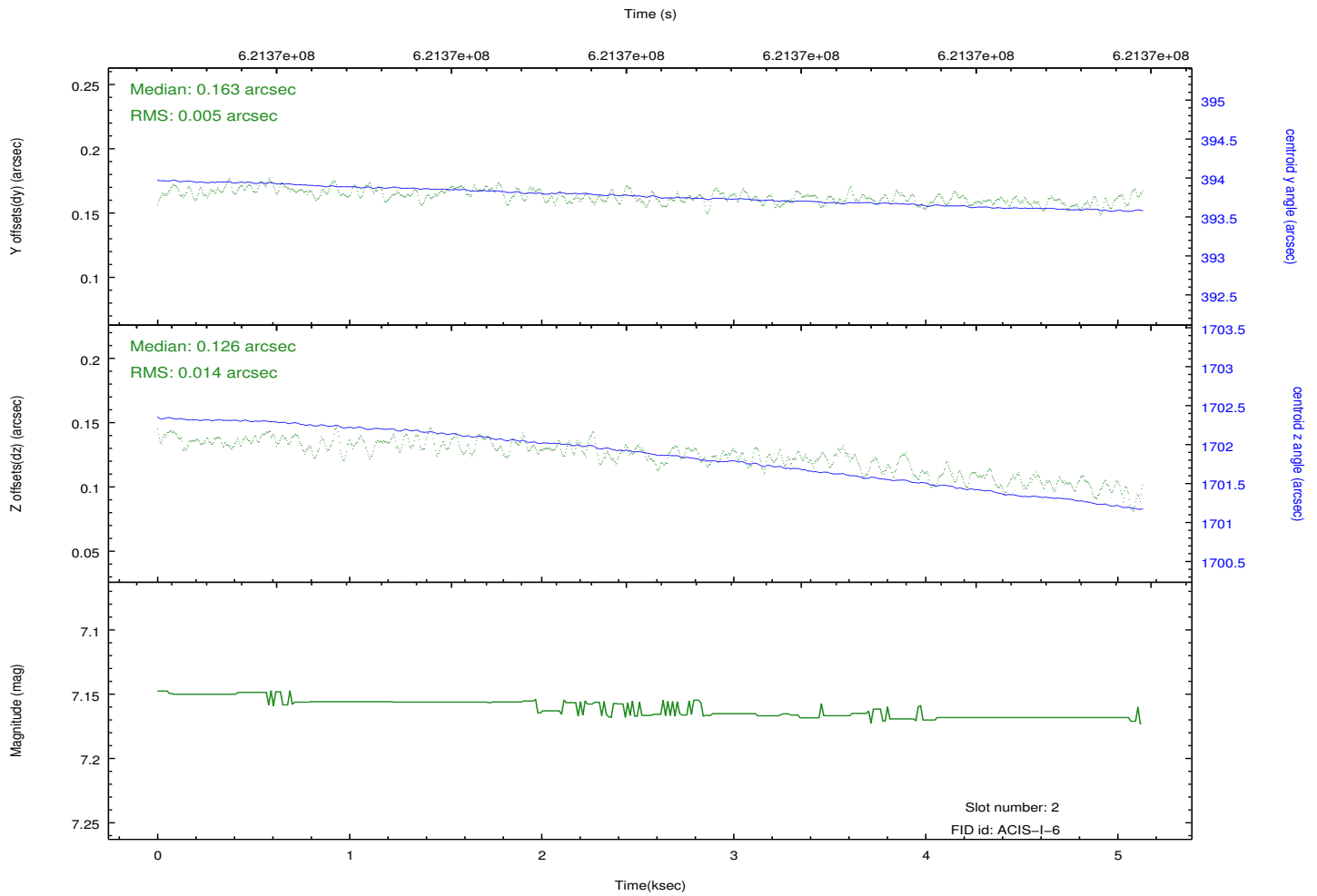
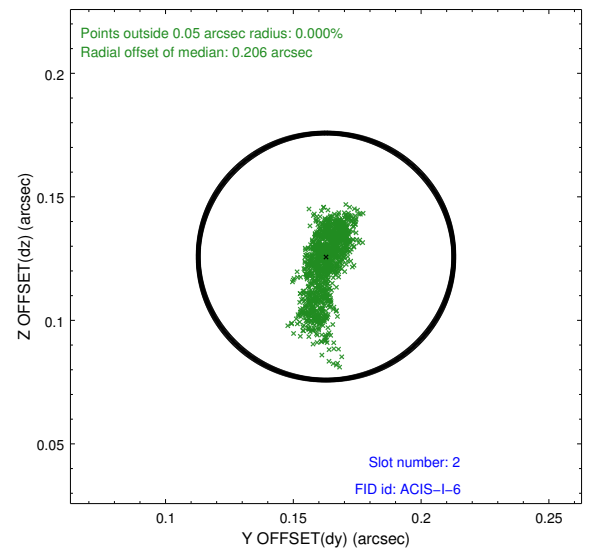
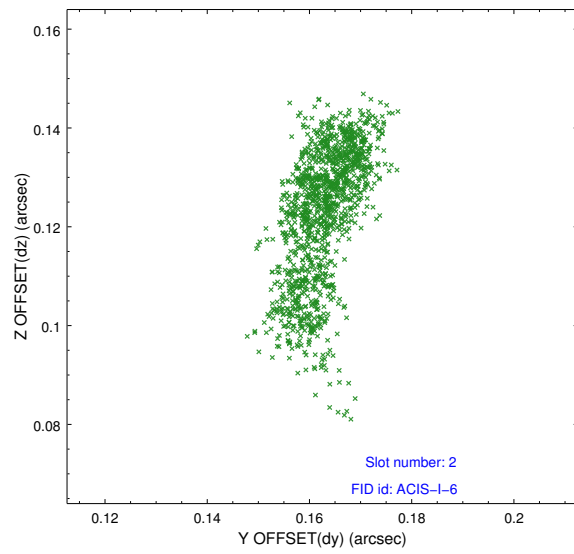
2.5.1 Slot 0



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)	2017.09.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.95962583673

A.2 Comments