

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18016 - L2 Version 1
Chandra X-Ray Center

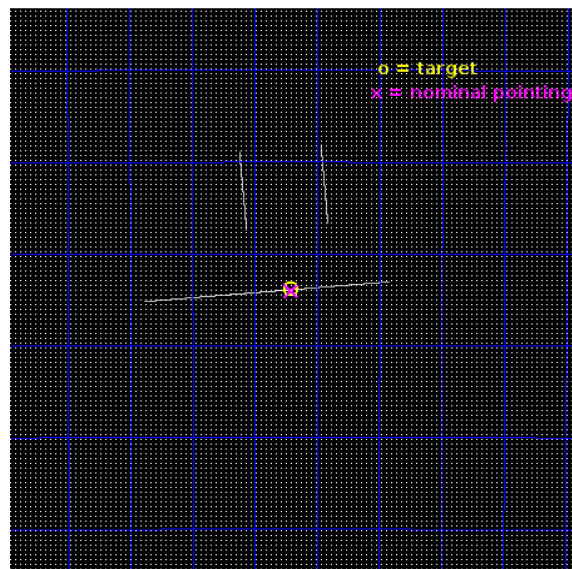
L2 Processing Date : Jul 24 2016

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1 Front

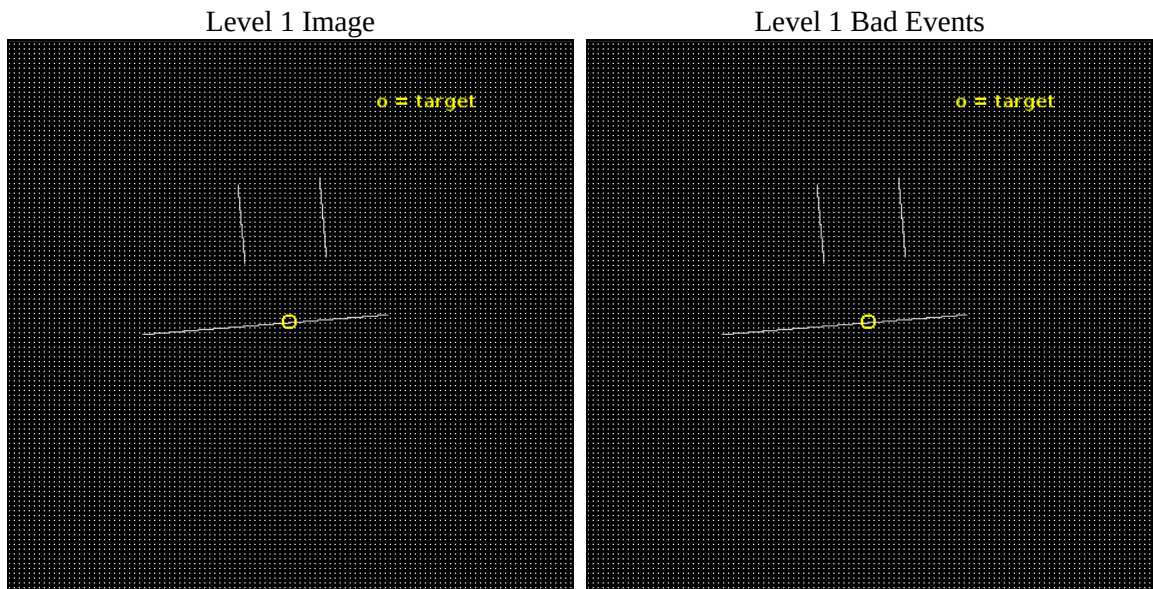
seq_num	502635	Sequence number
obs_id	18016	Observation id
title	Target-of-Opportunity Chandra Observations of Magnetars in Outburst	
observer	Victoria Kaspi	Principal investigator
object	SGR 0755-2933	Source name
ra_targ	118.926965	Observer's specified target RA [deg]
dec_targ	-29.564901	Observer's specified target Dec [deg]
ra_nom	118.92633103135	Nominal RA [deg]
dec_nom	-29.567378879729	Nominal Dec [deg]
roll_nom	175.15702444561	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25104.0	Sum of GTIs [s]
livetime	25005.9375	Livetime [s]
ontime2	25104.0	Sum of GTIs [s]
ontime3	25104.0	Sum of GTIs [s]
ontime6	25104.0	Sum of GTIs [s]
ontime7	25104.0	Sum of GTIs [s]
ontime8	25104.0	Sum of GTIs [s]
l2events	186996	Number of level 2 events



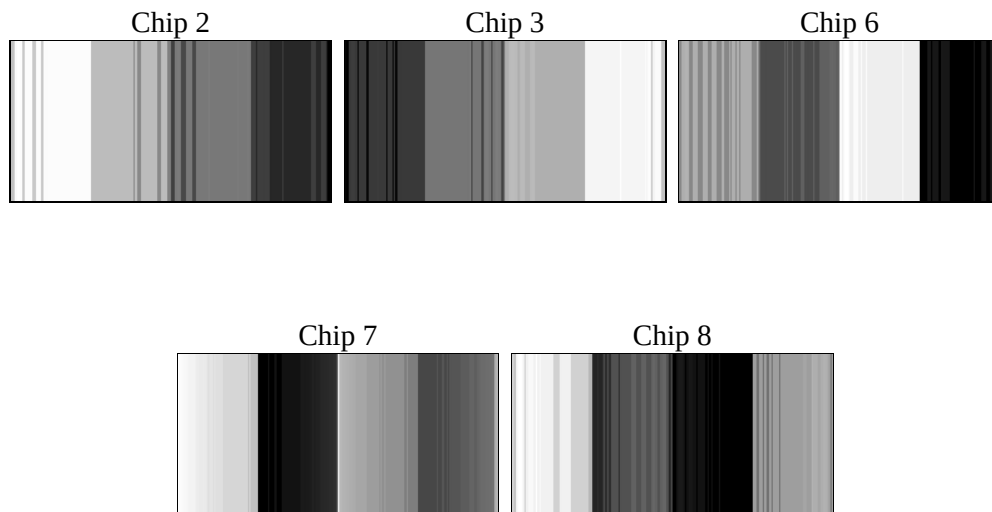
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	25104.0	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	25104.0	Sum of GTIs [s]
date	2016-07-24T04:00:38	Date and time of file creation	ontime3	25104.0	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	25104.0	Sum of GTIs [s]
			ontime7	25104.0	Sum of GTIs [s]
			ontime8	25104.0	Sum of GTIs [s]
			l1events	1585405	Number of level 1 events

2.1.4 Events

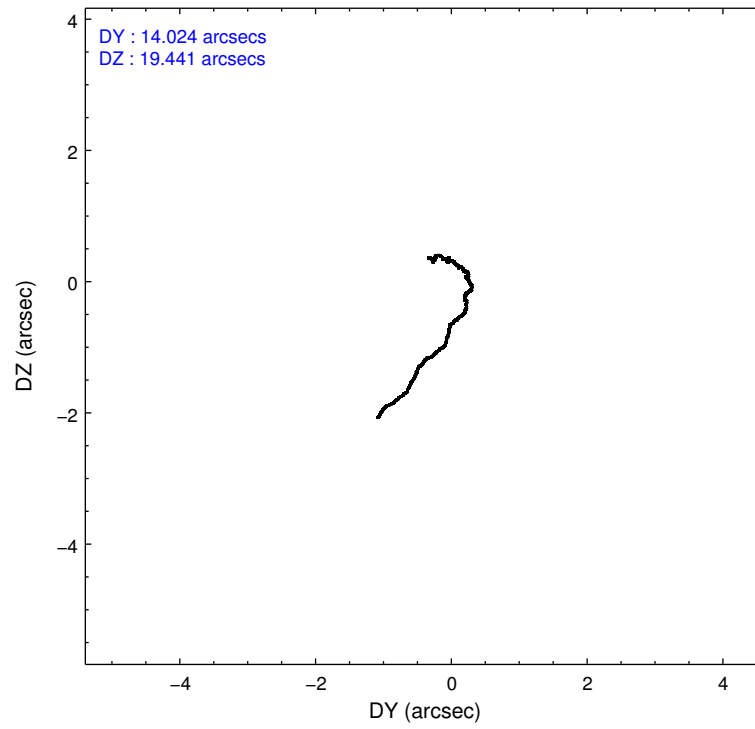
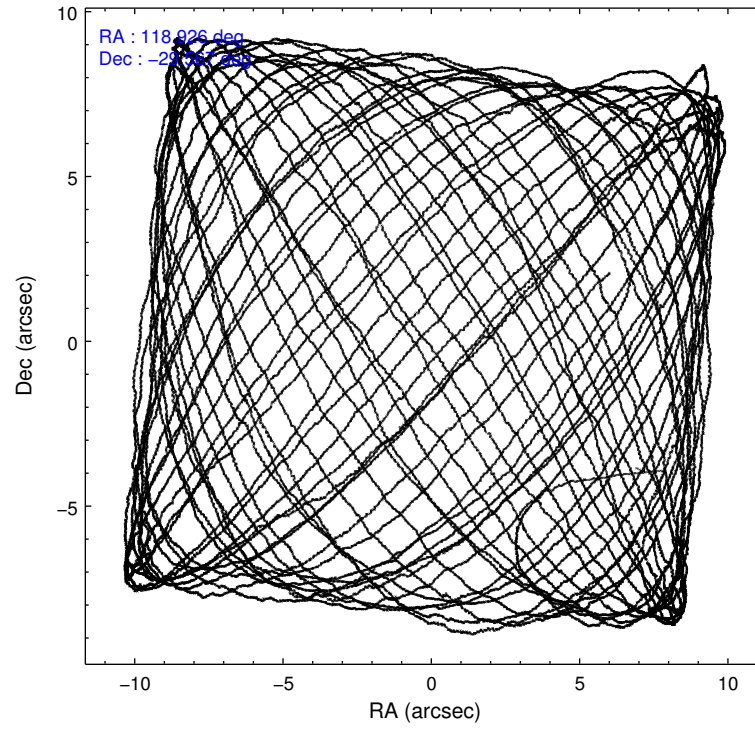
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	295646	275604	267423	298575	448157
rejected events	271294	249357	240123	204908	370667
rejected %	91%	90%	89%	68%	82%

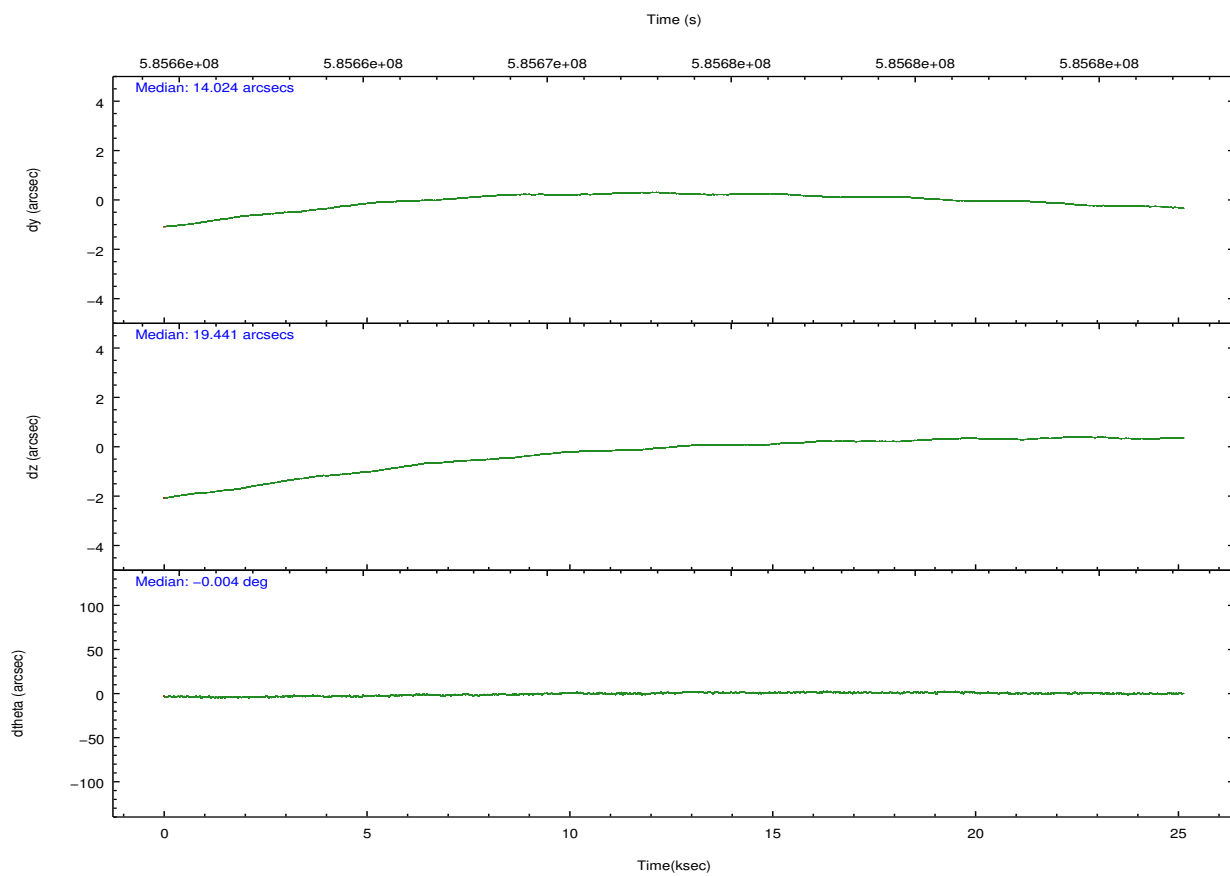
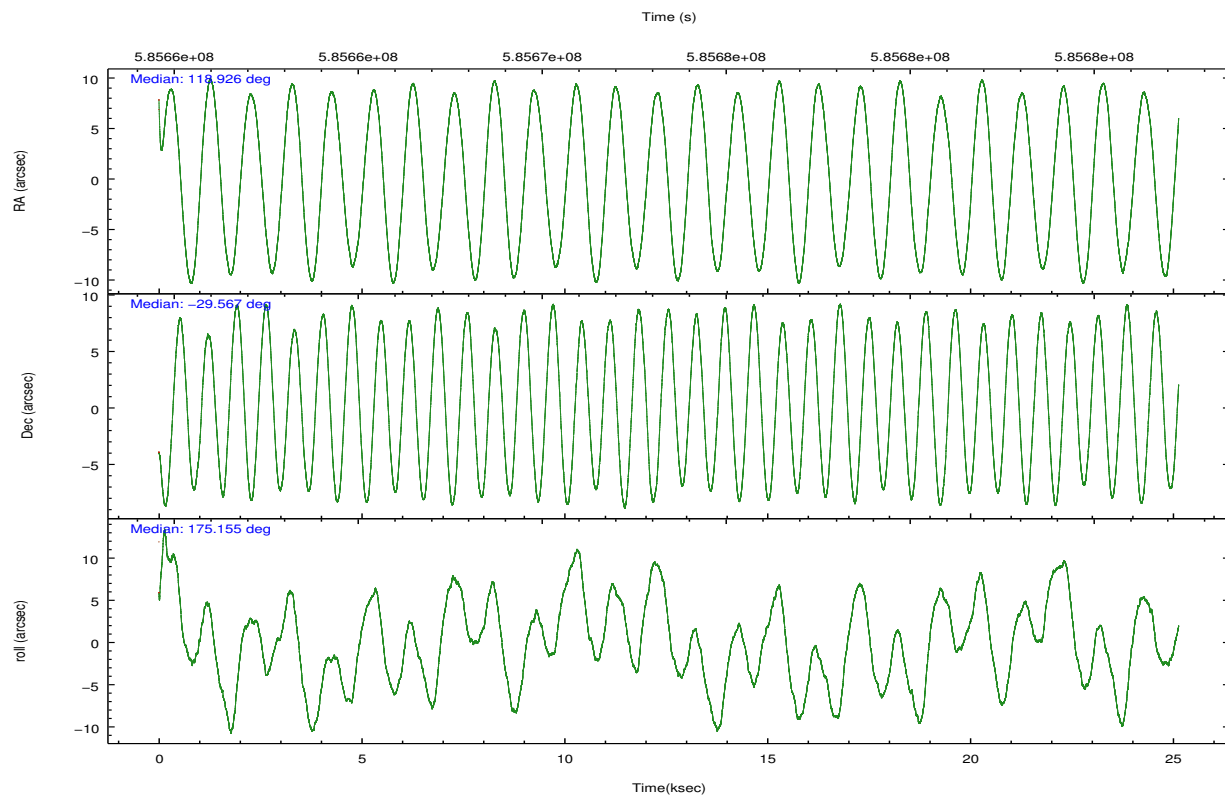
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3091	3519	3022	6067	17827
	1%	1%	1%	2%	3%
grade 1 events	153	158	132	275	311
	0%	0%	0%	0%	0%
grade 2 events	9246	9127	10200	25540	23032
	3%	3%	3%	8%	5%
grade 3 events	2968	3639	3333	4325	8206
	1%	1%	1%	1%	1%
grade 4 events	3075	3203	3210	4235	8071
	1%	1%	1%	1%	1%
grade 5 events	7096	8012	8187	19030	12035
	2%	2%	3%	6%	2%
grade 6 events	5972	6760	7540	53515	20354
	2%	2%	2%	17%	4%
grade 7 events	264045	241186	231799	185588	358321
	89%	87%	86%	62%	79%

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	CC33_FAINT	CC33_FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	118.954700	118.9263310313465	CCD I2 on	O2	Y
[deg] Pointing Dec	-29.555359	-29.56737887972898	CCD I3 on	O3	Y
[deg] Pointing Roll	175.014400	175.1570244456073	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	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)	585660993.184000	585659275.60905	CCD S5 on	N	N
Observation start date	2016-07-23T11:35:25	2016-07-23T11:07:55	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	585685993.184000	585687035.17314	On-chip summing requested	N	N
Observation end date	2016-07-23T18:32:05	2016-07-23T18:50:35	Subarray requested	NONE	NONE
Read mode	CONTINUOUS	CONTINUOUS	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0

2.3 Aspect



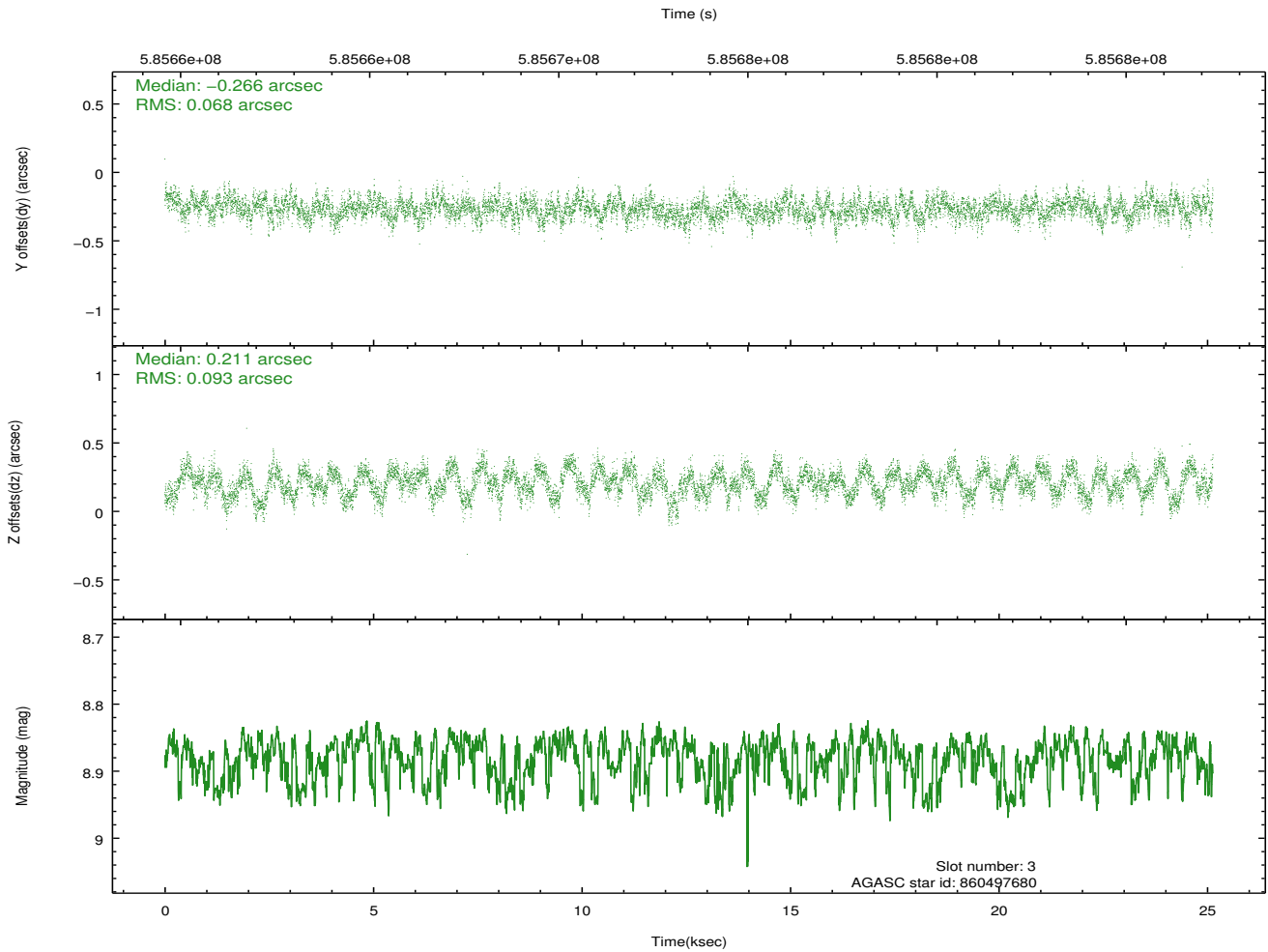
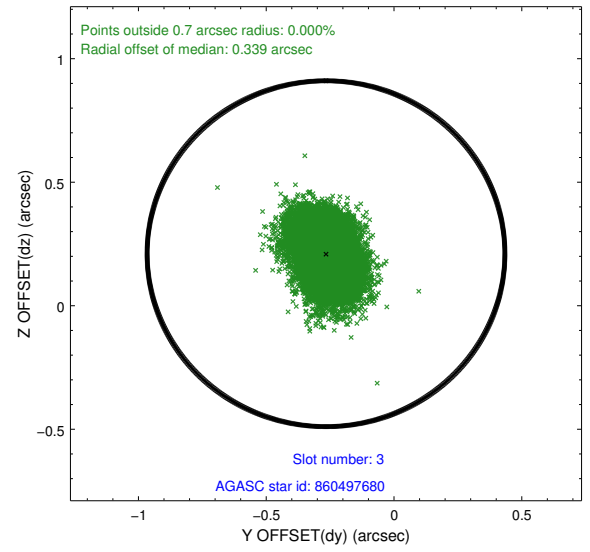
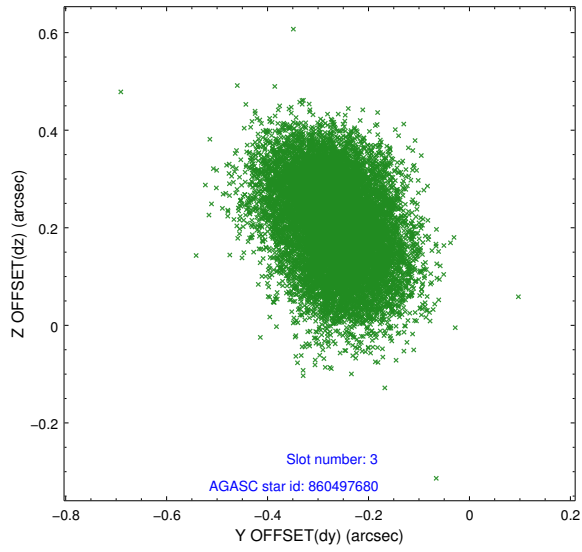


Slot Statistics

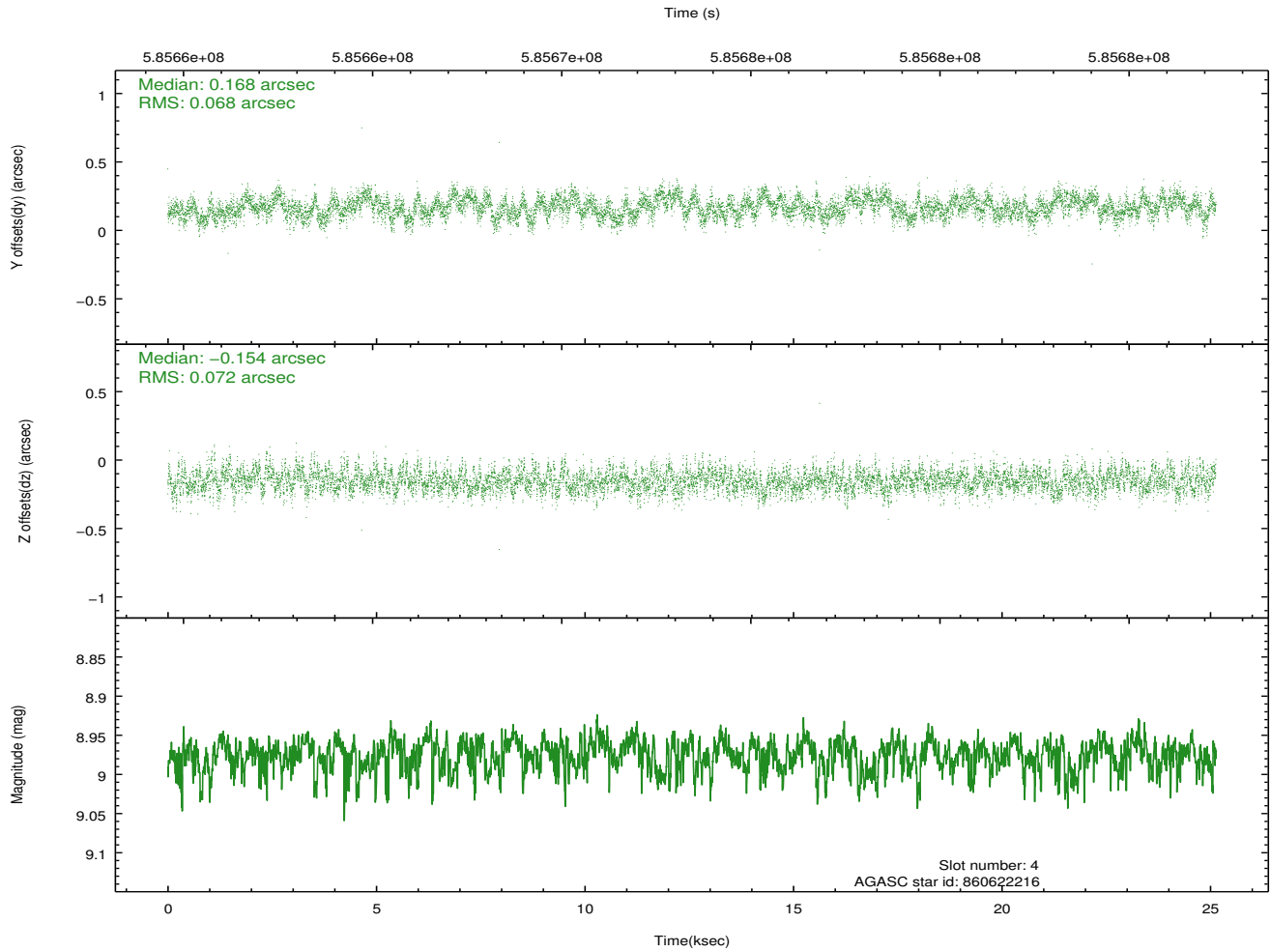
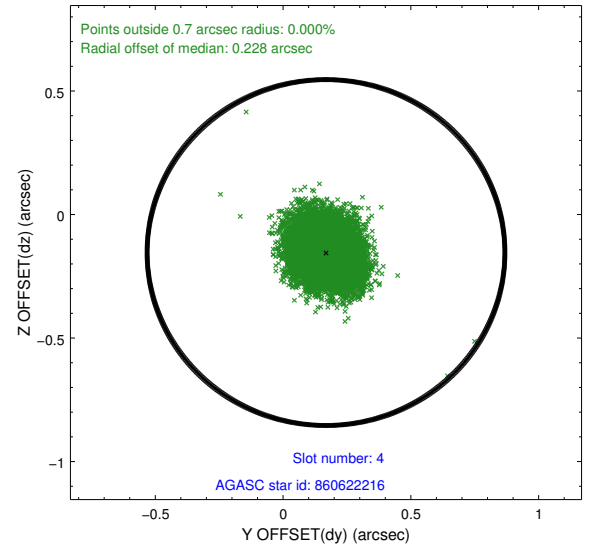
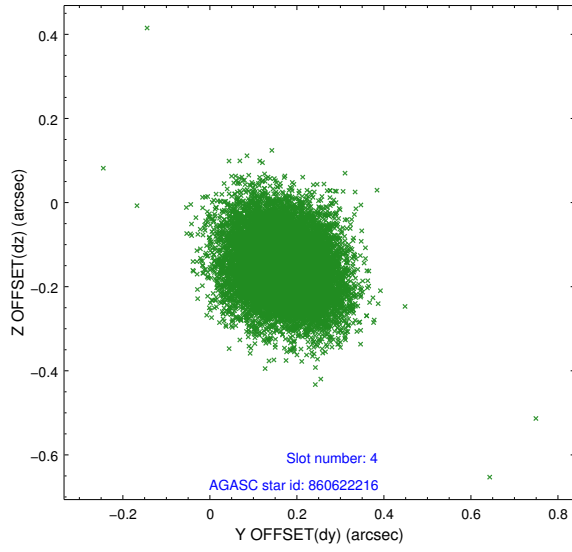
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.04	6130	0.159	0.046	0.022	0.041	0.000000	0.000000	929.27	-1736.17
1	FID		ACIS-S-2	6.95	6130	-0.217	-0.081	0.009	0.040	0.000000	0.000000	-766.95	-1740.94
2	FID		ACIS-S-6	7.18	6130	0.038	0.040	0.022	0.032	0.000000	0.000000	394.79	805.04
3	GUIDE	used	860497680	8.88	12255	-0.266	0.211	0.123	0.195	118.416268	-29.122994	1821.99	-1399.11
4	GUIDE	used	860622216	8.98	12255	0.168	-0.154	0.105	0.169	119.319150	-29.711564	-1183.62	462.86
5	GUIDE	used	860499240	9.10	12250	-0.197	-0.324	0.120	0.192	118.745825	-29.763474	585.13	803.65
6	GUIDE	used	860510912	8.95	12257	0.191	0.232	0.124	0.201	119.267458	-29.244029	-880.81	-1200.14
7	GUIDE	used	860639000	9.12	12246	0.120	0.036	0.144	0.241	119.656952	-29.664574	-2222.83	207.47

2.4 Star Slots

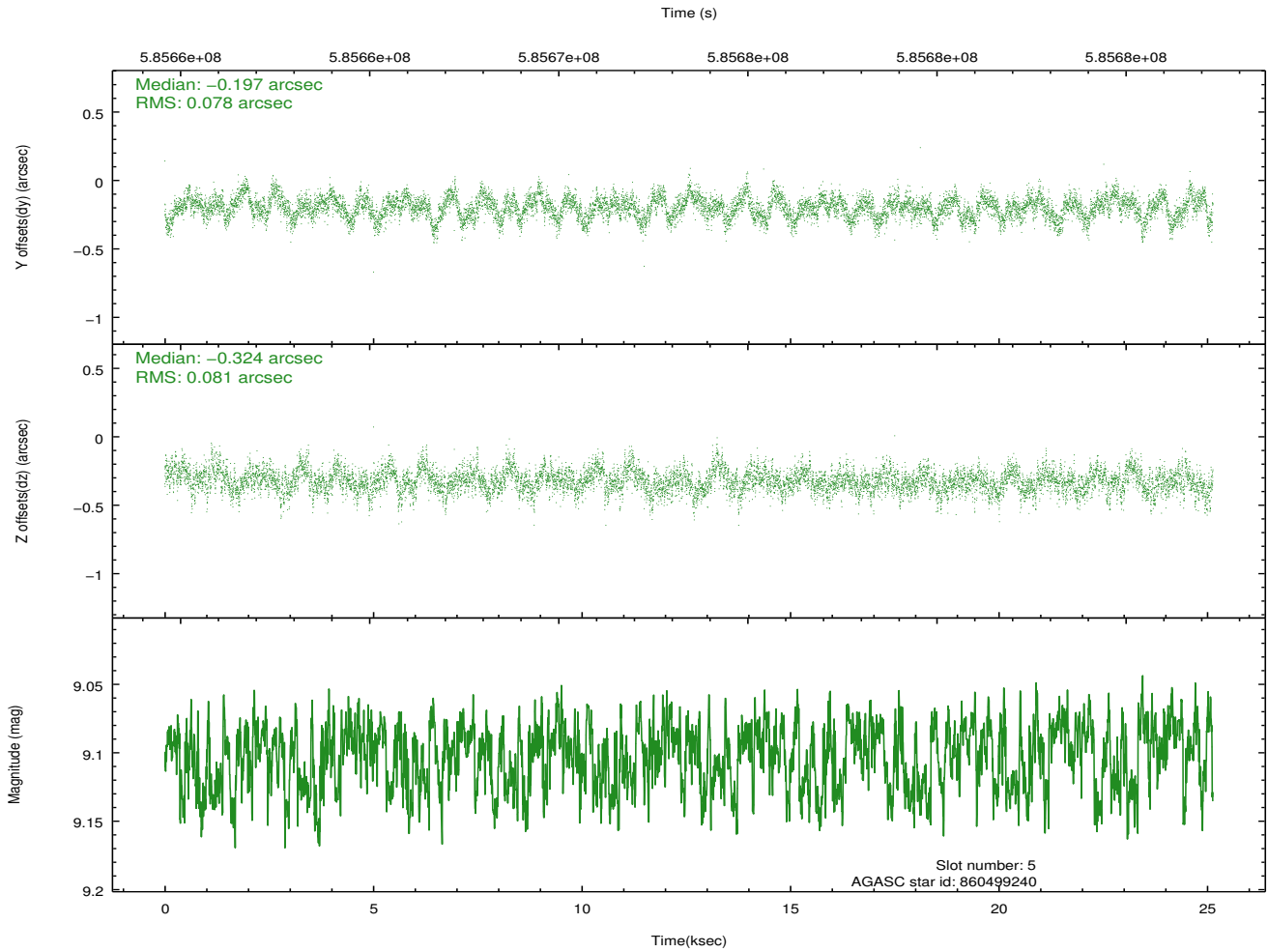
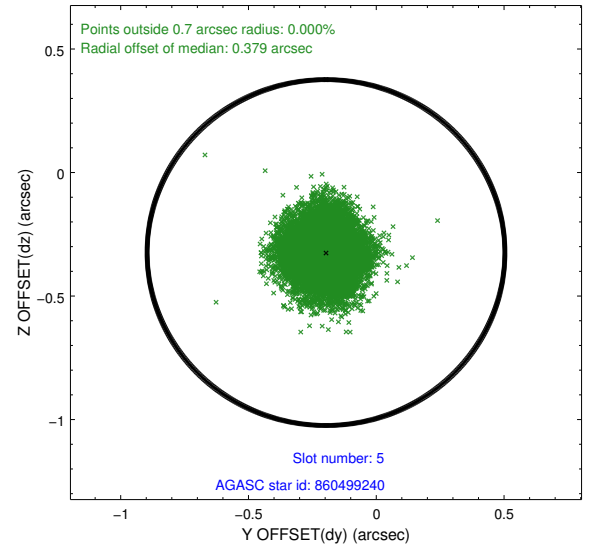
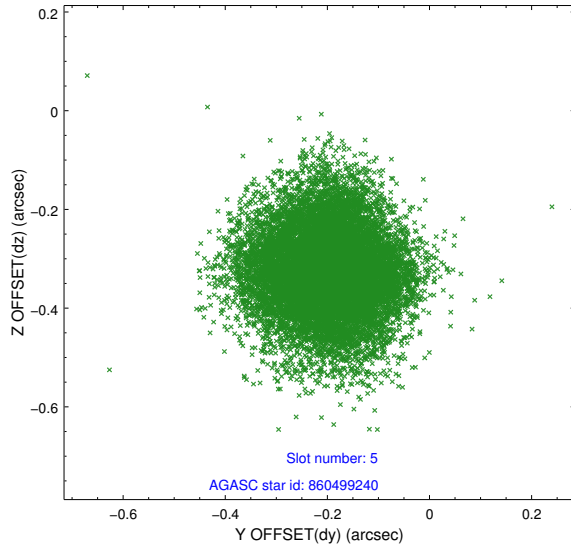
2.4.1 Slot 3



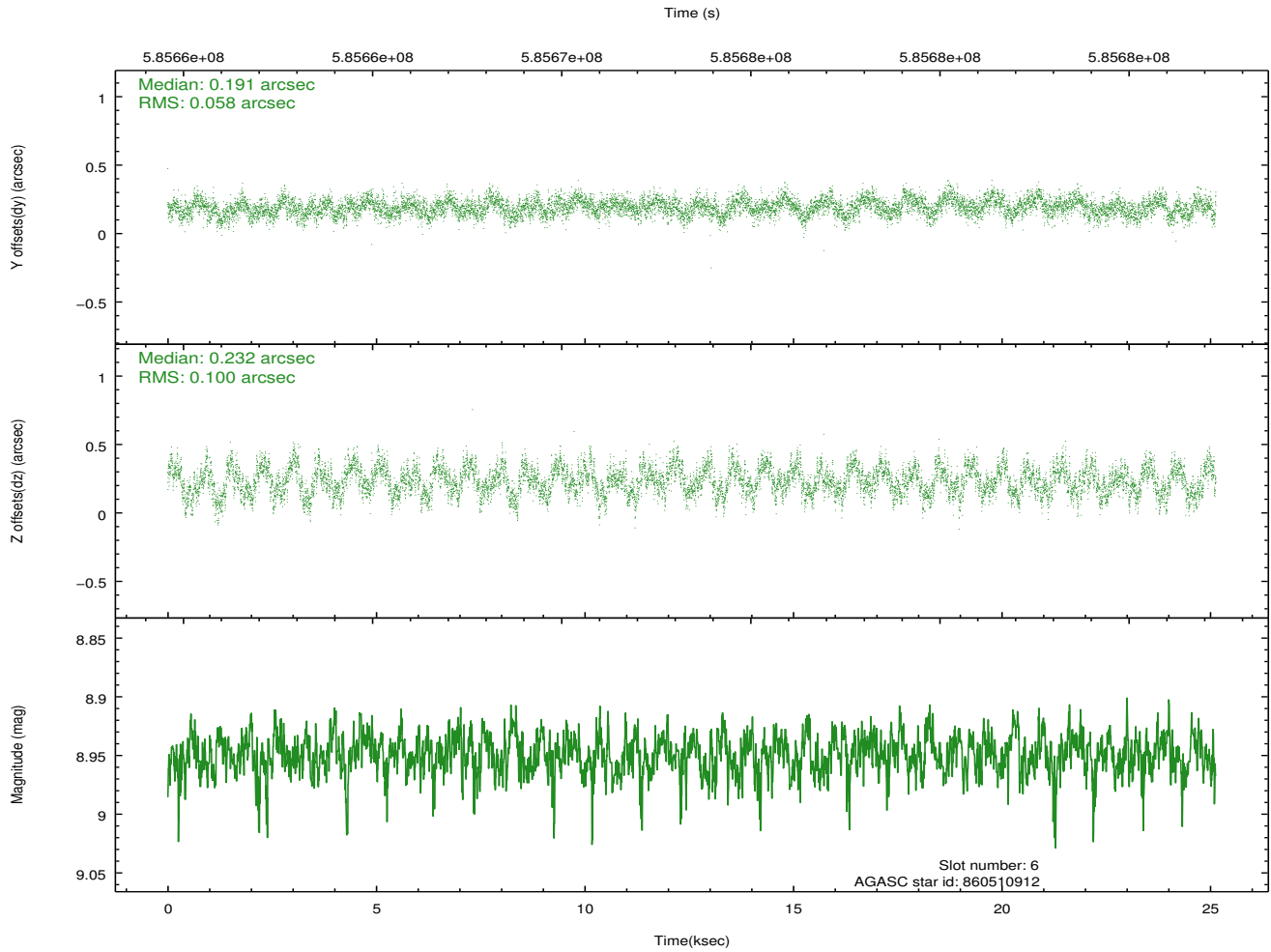
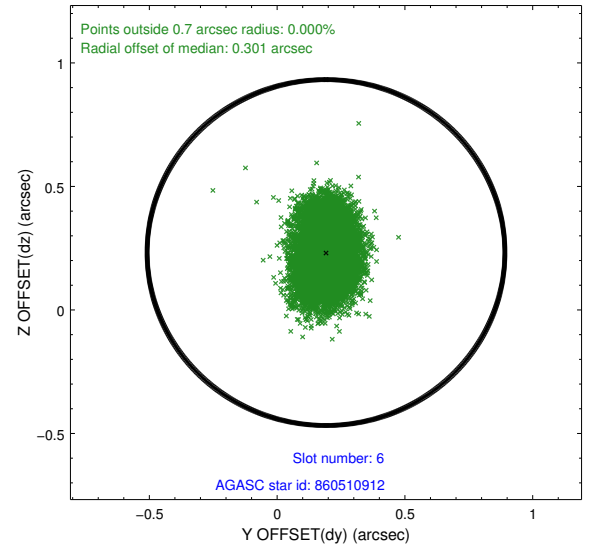
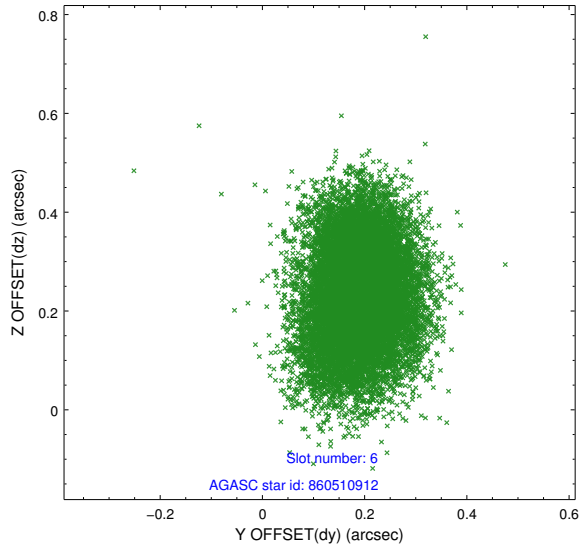
2.4.2 Slot 4



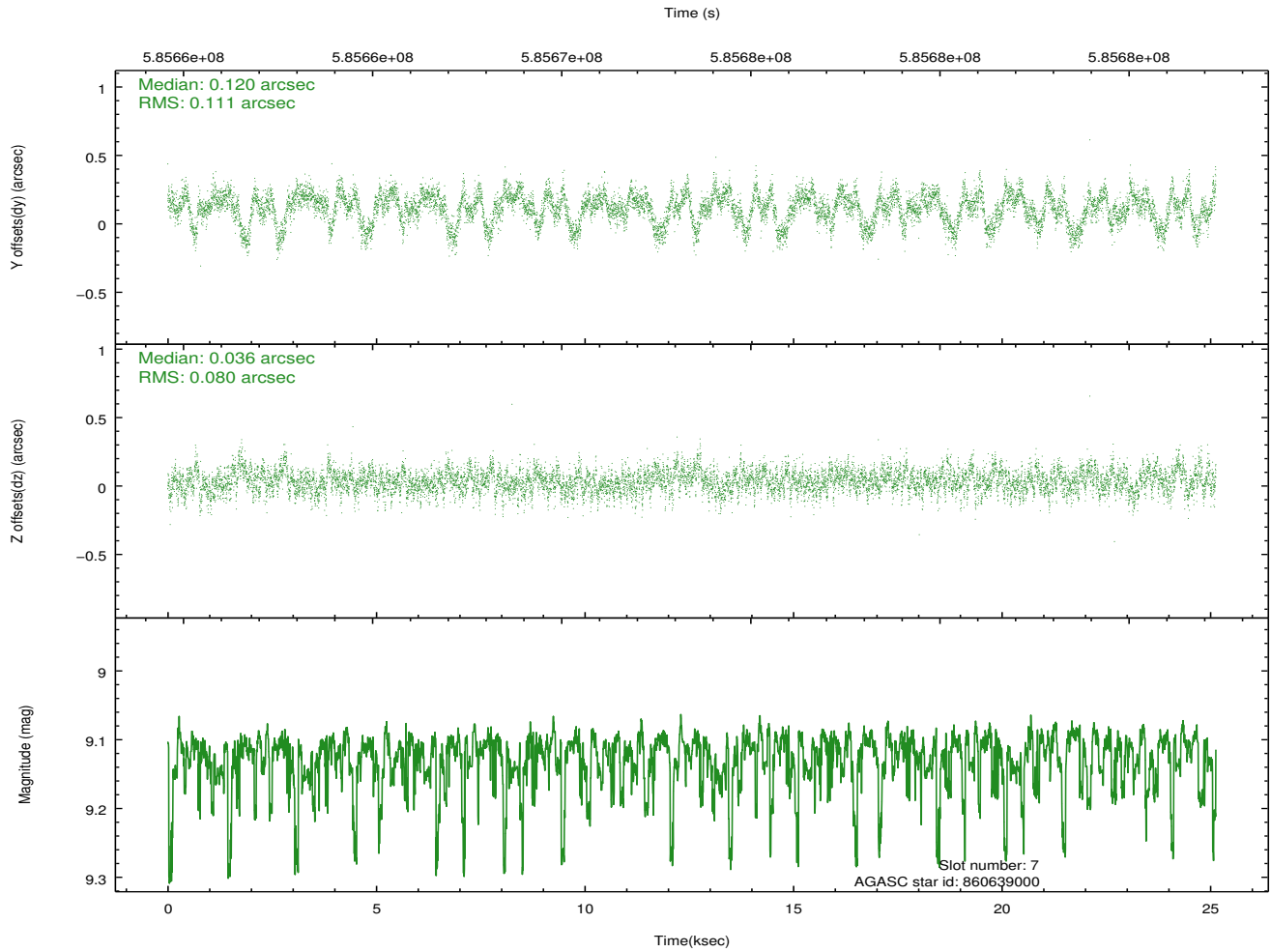
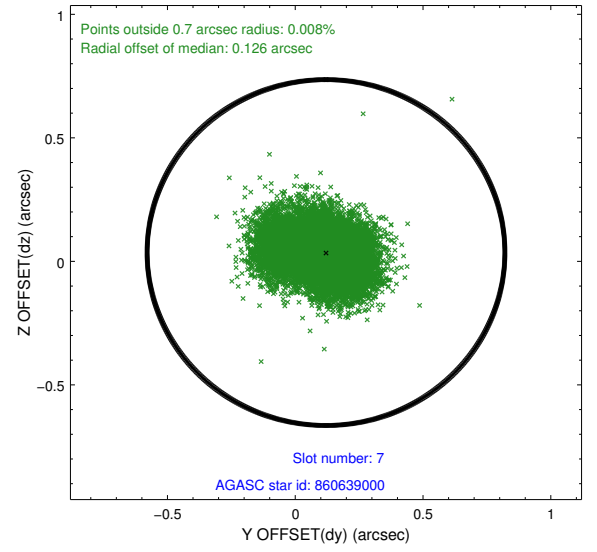
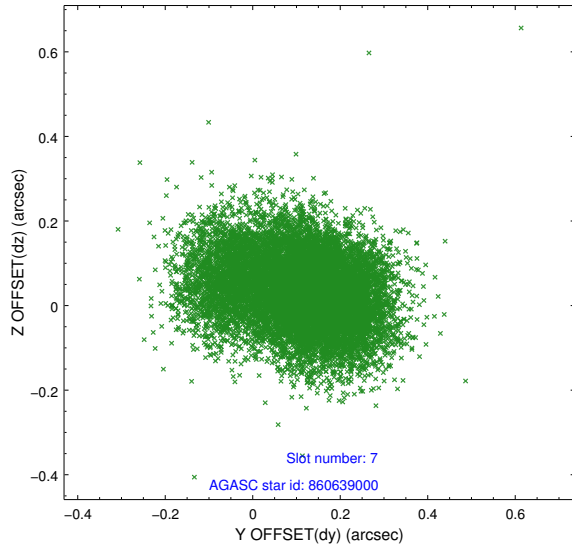
2.4.3 Slot 5



2.4.4 Slot 6

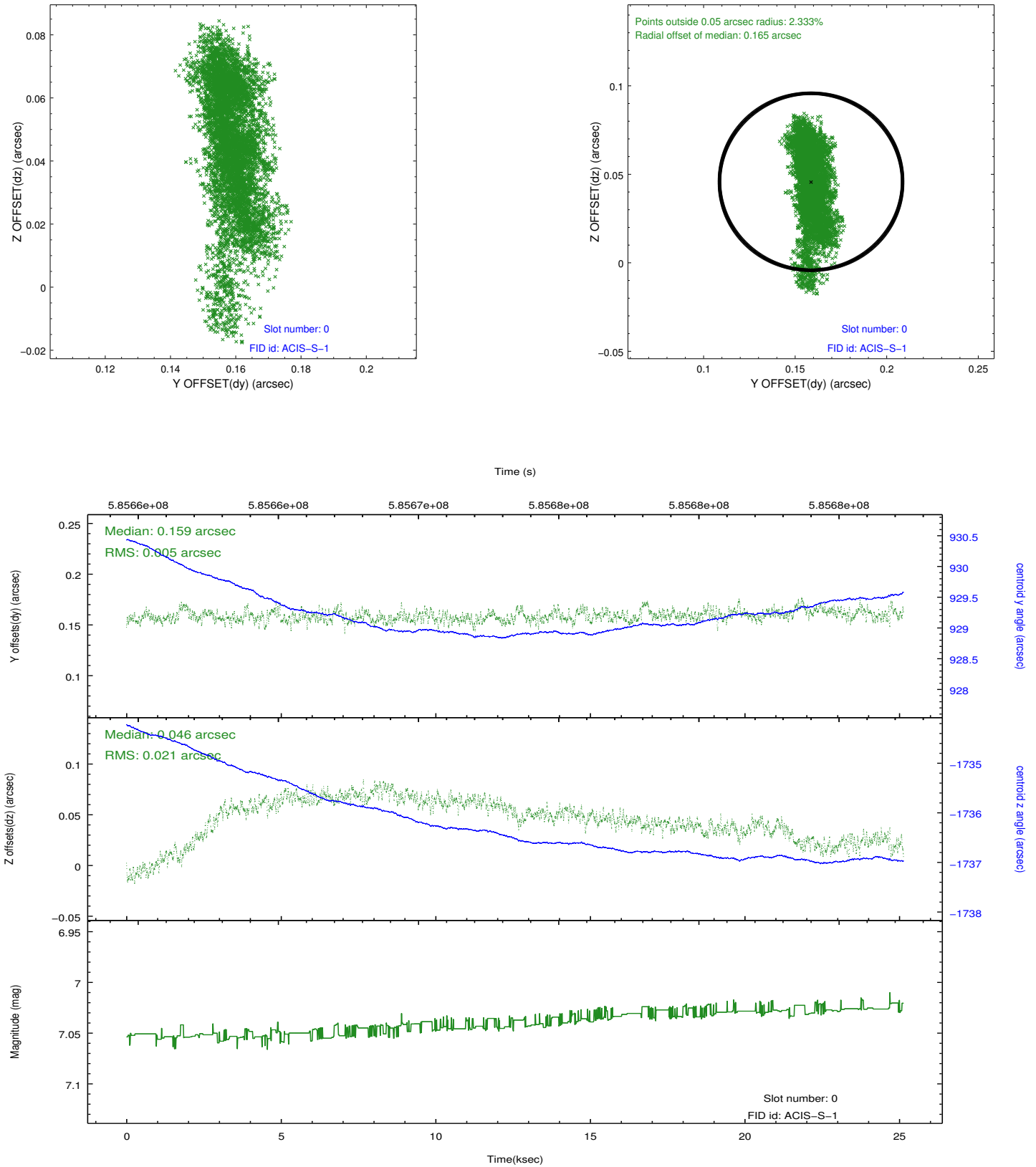


2.4.5 Slot 7

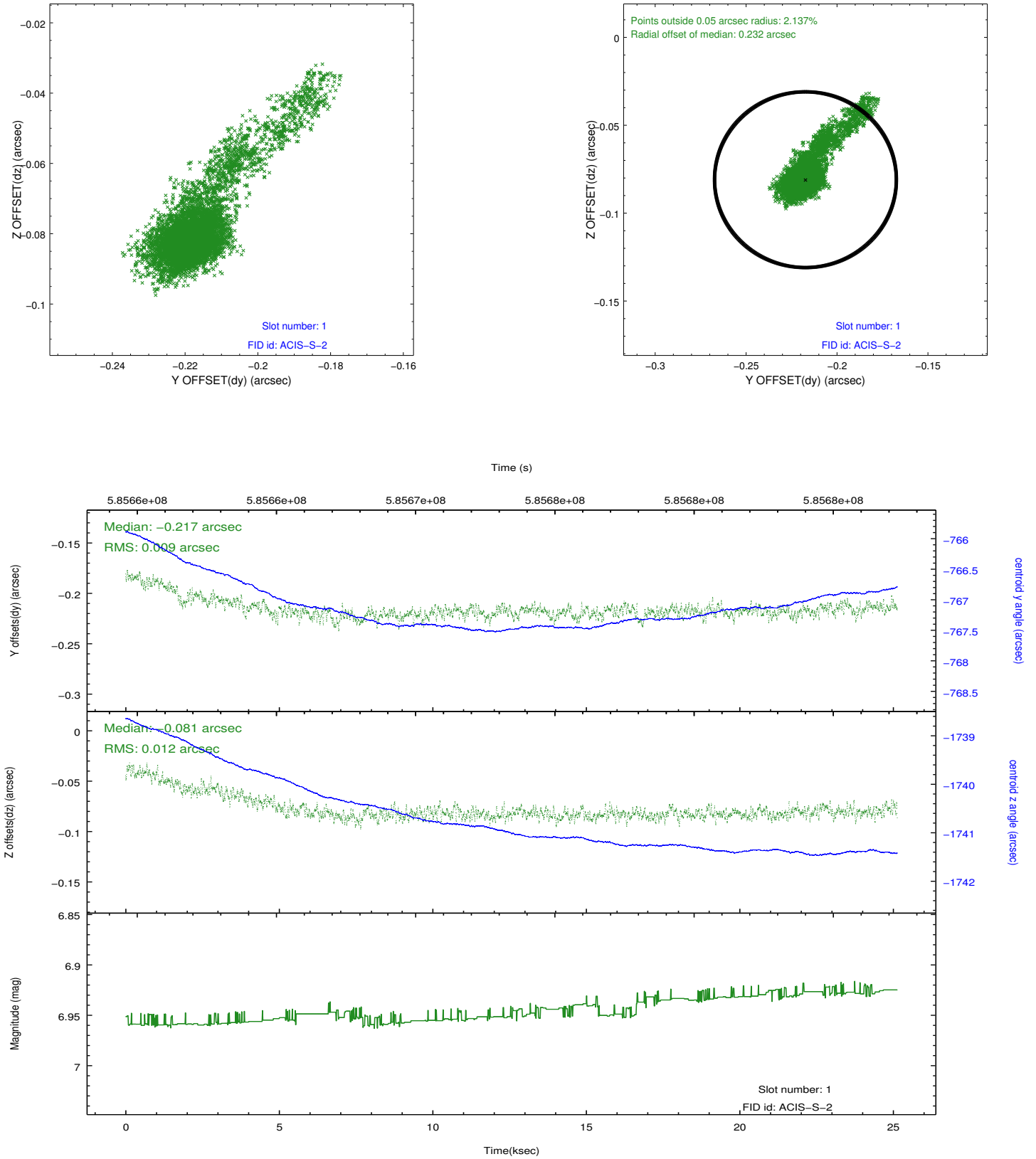


2.5 FID Slots

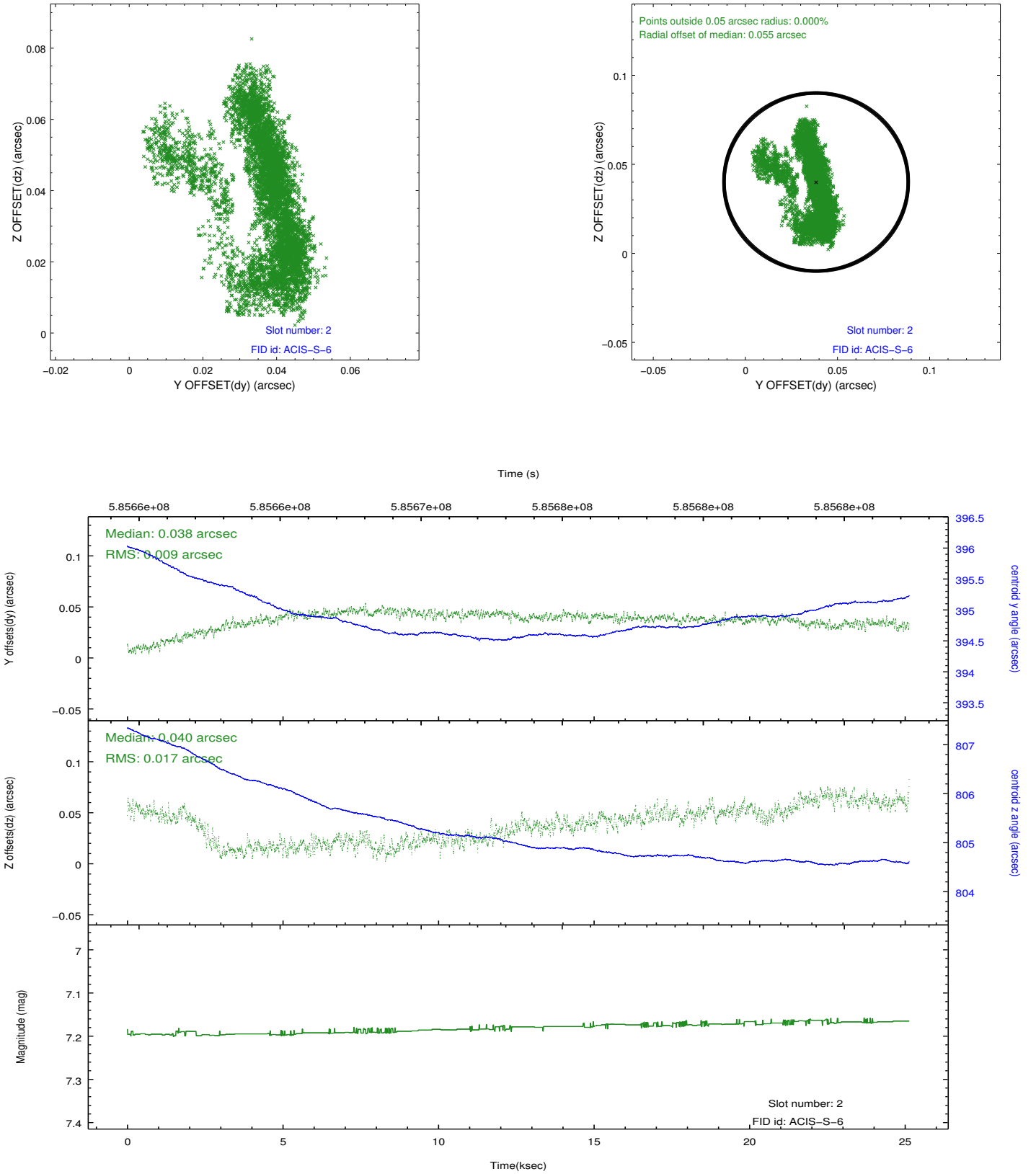
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Glenn Allen
V&V Date (YYYY-MM-DD)	2016.07.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.104

A.2 Comments

The centroid of the source events is within about half a pixel of the location specified by (RA_TARG,DEC_TARG), suggesting that these coordinates are fairly accurate for the source whose coordinates were previously uncertain. Therefore, the event times and pulse heights should be reasonably accurate.