

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11494 - L2 Version 2  
Chandra X-Ray Center

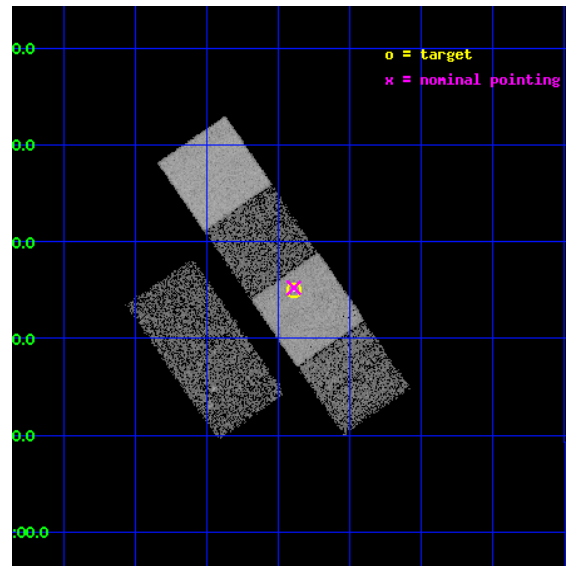
L2 Processing Date : Jun 18 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
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
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

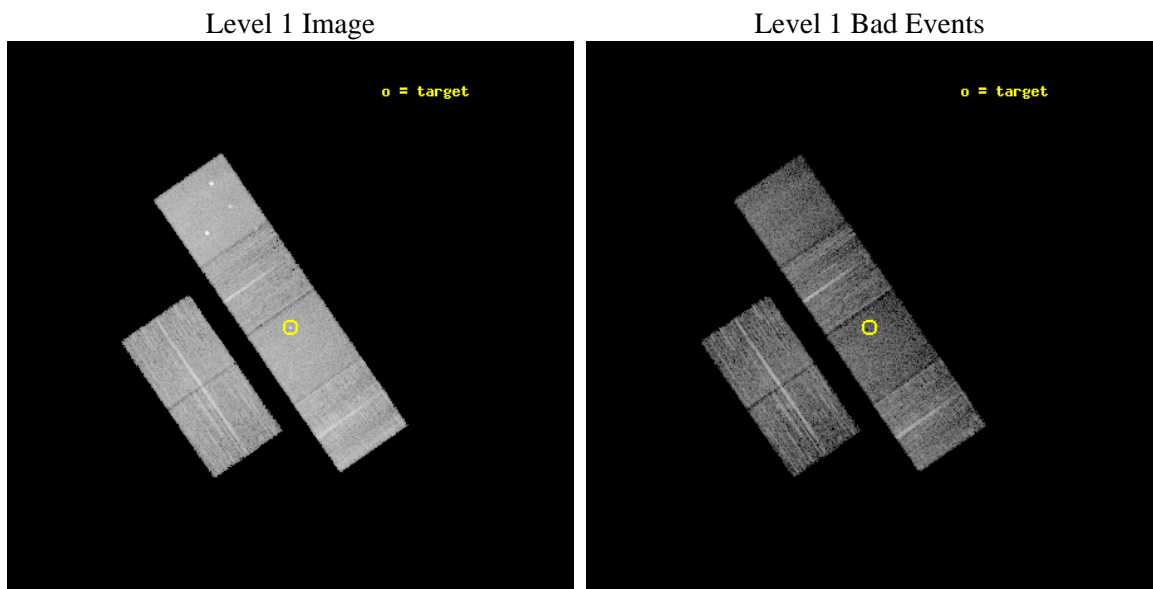
seq_num	702080	Sequence number
obs_id	11494	Observation id
title	Hunting for Intrinsically X-ray Weak Quasars: The Case of PHL 1811 Analogs	Proposal title
observer	Prof. William Brandt	Principal investigator
object	SDSS J1454+0324	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	223.722917	Observer's specified target RA [deg]
dec_targ	3.415778	Observer's specified target Dec [deg]
ra_nom	223.72311811535	Nominal RA [deg]
dec_nom	3.420533262627	Nominal Dec [deg]
roll_nom	55.308237933939	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6425.5999761224	Sum of GTIs [s]
livetime	6344.2351601929	Livetime [s]
ontime2	6425.5999761224	Sum of GTIs [s]
ontime3	6425.5999761224	Sum of GTIs [s]
ontime5	6425.5999761224	Sum of GTIs [s]
ontime6	6425.5999761224	Sum of GTIs [s]
ontime7	6425.5999761224	Sum of GTIs [s]
ontime8	6425.5999761224	Sum of GTIs [s]
l2events	87396	Number of level 2 events



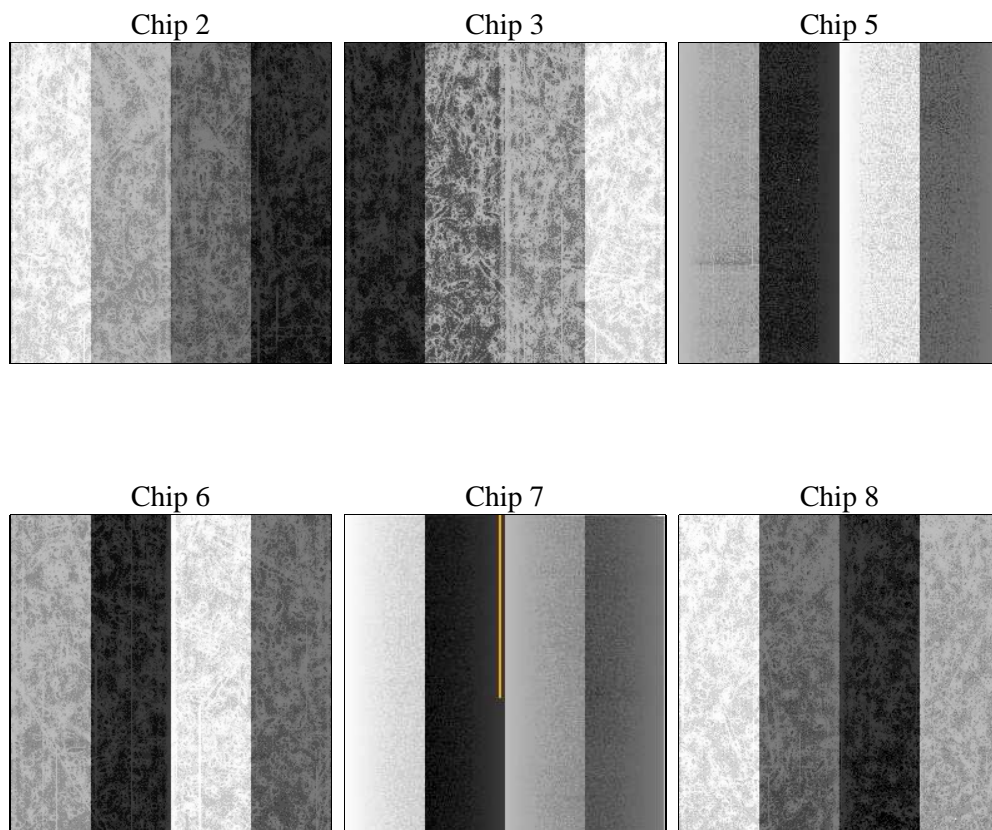
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6300.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6425.5999761224	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime2	6425.5999761224	Sum of GTIs [s]
date	2012-06-18T07:36:07	Date and time of file creation	ontime3	6425.5999761224	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	6425.5999761224	Sum of GTIs [s]
			ontime6	6425.5999761224	Sum of GTIs [s]
			ontime7	6425.5999761224	Sum of GTIs [s]
			ontime8	6425.5999761224	Sum of GTIs [s]
			l1events	404234	Number of level 1 events

### 2.1.4 Events

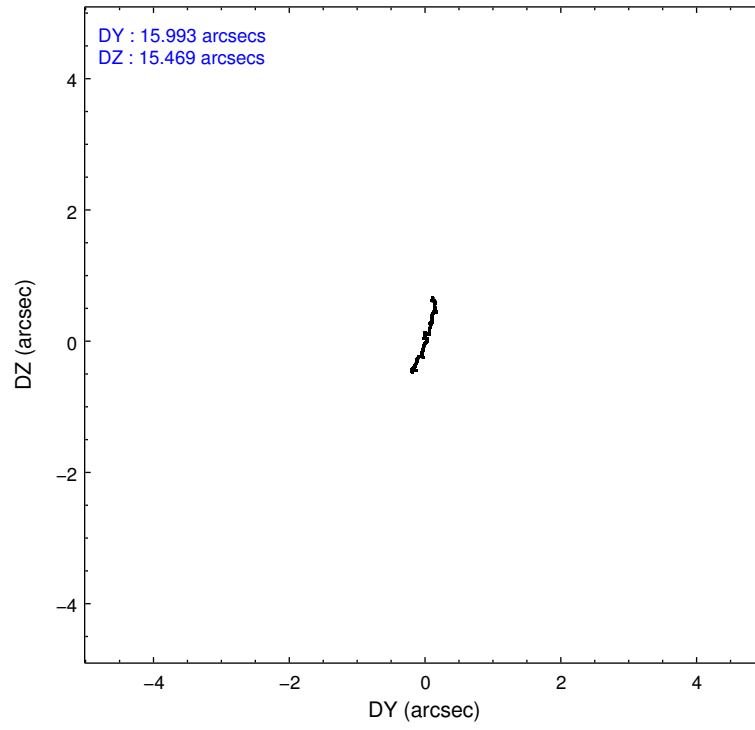
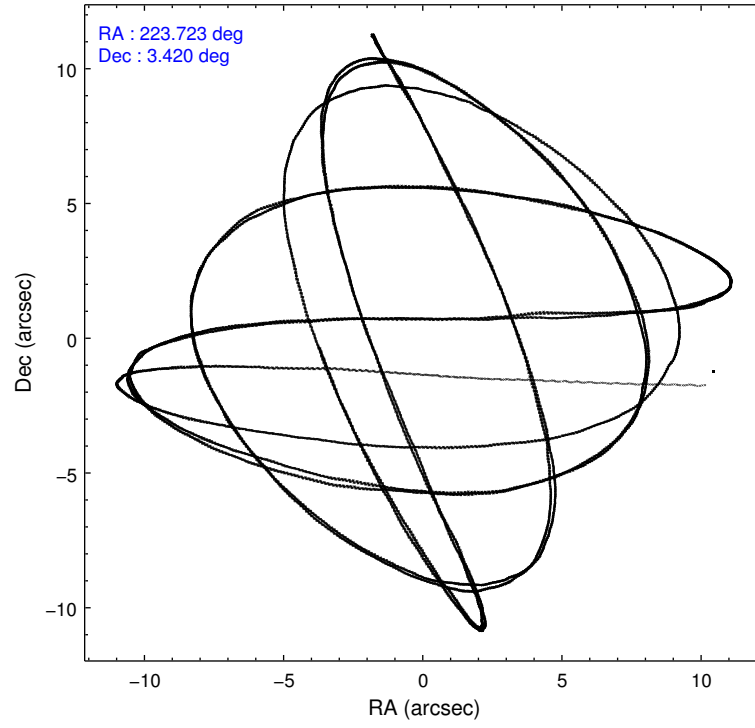
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	61396	56363	84686	58470	67385	75934	grade 0 events	2158	2128	5279	2223	2933	5769
rejected events	55615	50890	43223	52471	37750	57400		3%	3%	6%	3%	4%	7%
rejected %	90%	90%	51%	89%	56%	75%	grade 1 events	43	29	185	31	85	46
								0%	0%	0%	0%	0%	0%
							grade 2 events	1463	1219	13092	1372	6372	4537
								2%	2%	15%	2%	9%	5%
							grade 3 events	589	659	1671	639	2737	1926
								0%	1%	1%	1%	4%	2%
							grade 4 events	643	603	1578	680	2746	1848
								1%	1%	1%	1%	4%	2%
							grade 5 events	2142	2274	6382	2403	6974	3496
								3%	4%	7%	4%	10%	4%
							grade 6 events	1146	1079	21460	1337	15987	5188
								1%	1%	25%	2%	23%	6%
							grade 7 events	53212	48372	35039	49785	29551	53124
								86%	85%	41%	85%	43%	69%

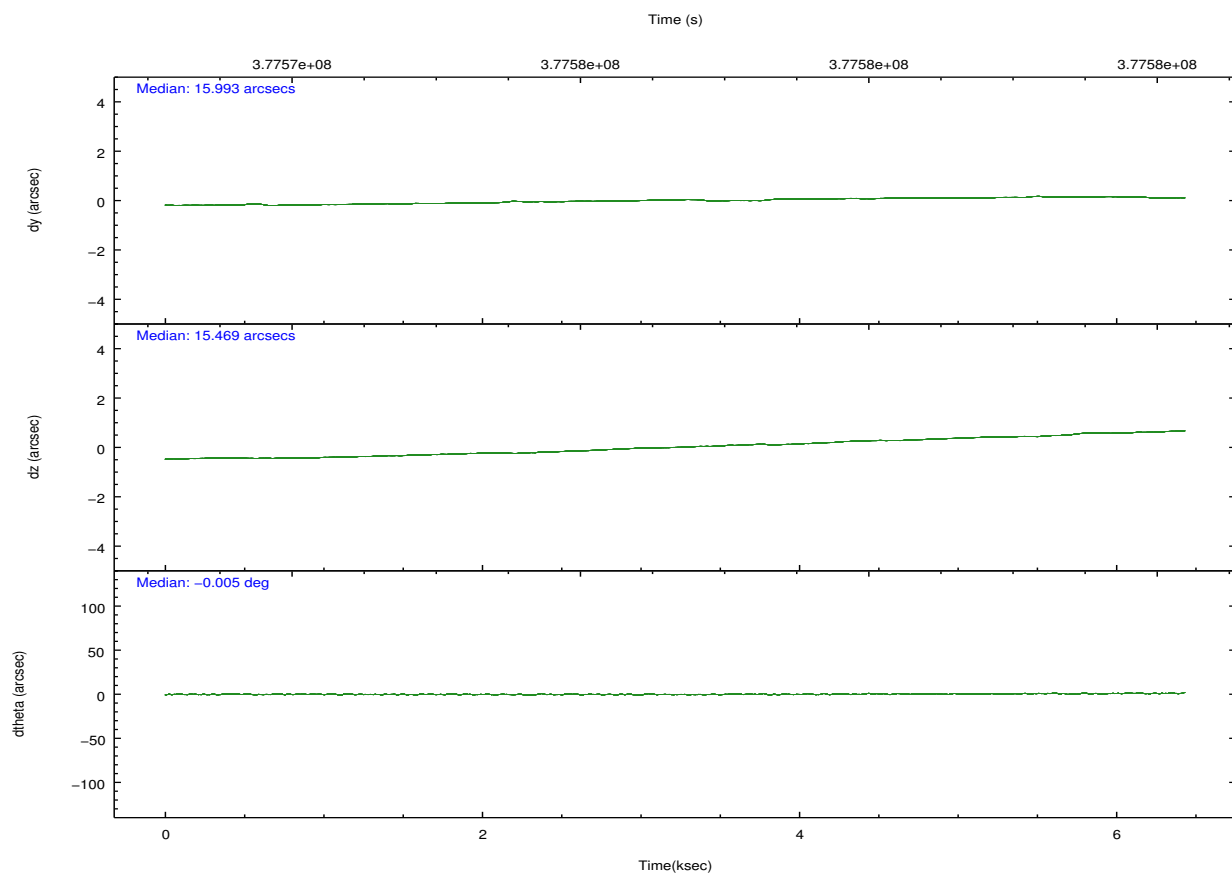
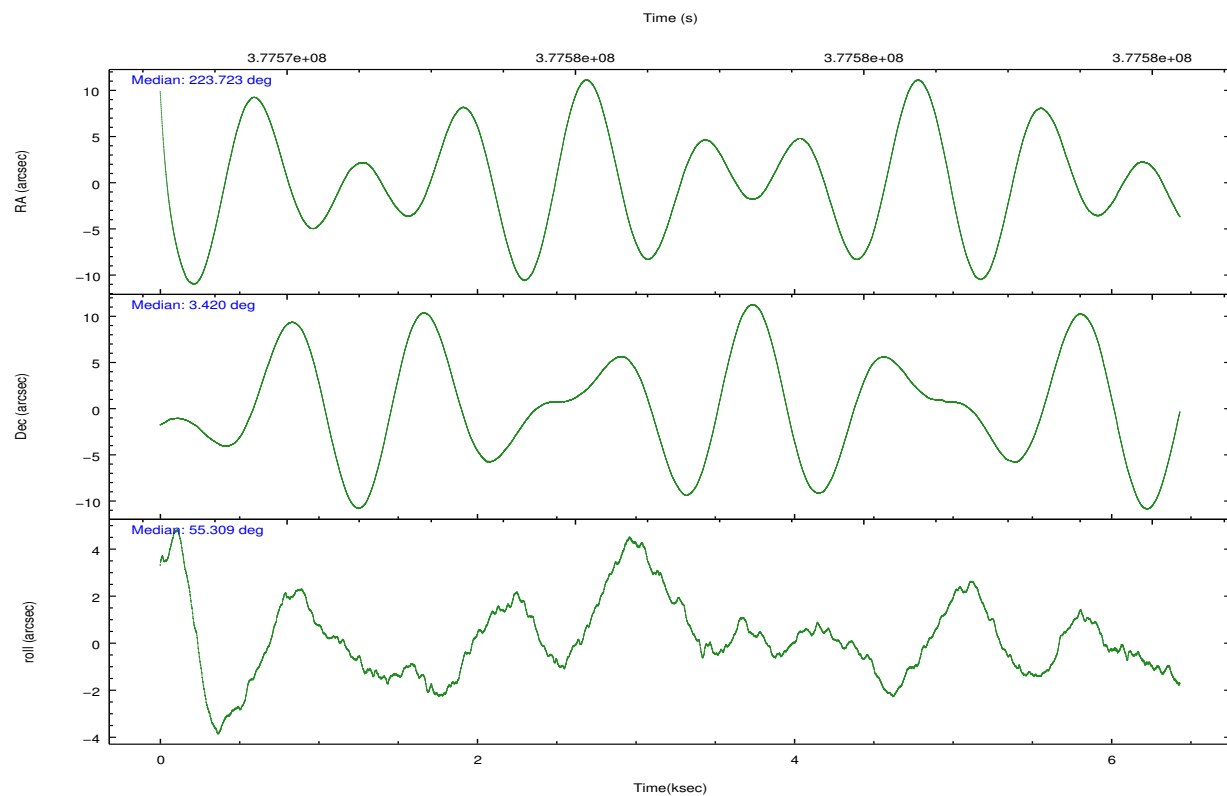


## 2.2 Compared Parameters

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	223.721306	223.7231181153473	CCD I2 on	O2	Y
[deg] Pointing Dec	3.393337	3.420533262626989	CCD I3 on	O1	Y
[deg] Pointing Roll	55.151721	55.30823793393934	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	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	Y	Y
[s] Observation start time (MET)	377573570.184000	377572396.26766	CCD S5 on	N	N
Observation start date	2009-12-19T01:31:44	2009-12-19T01:13:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	377579870.184000	377581052.90559	On-chip summing requested	N	N
Observation end date	2009-12-19T03:16:44	2009-12-19T03:37:32	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



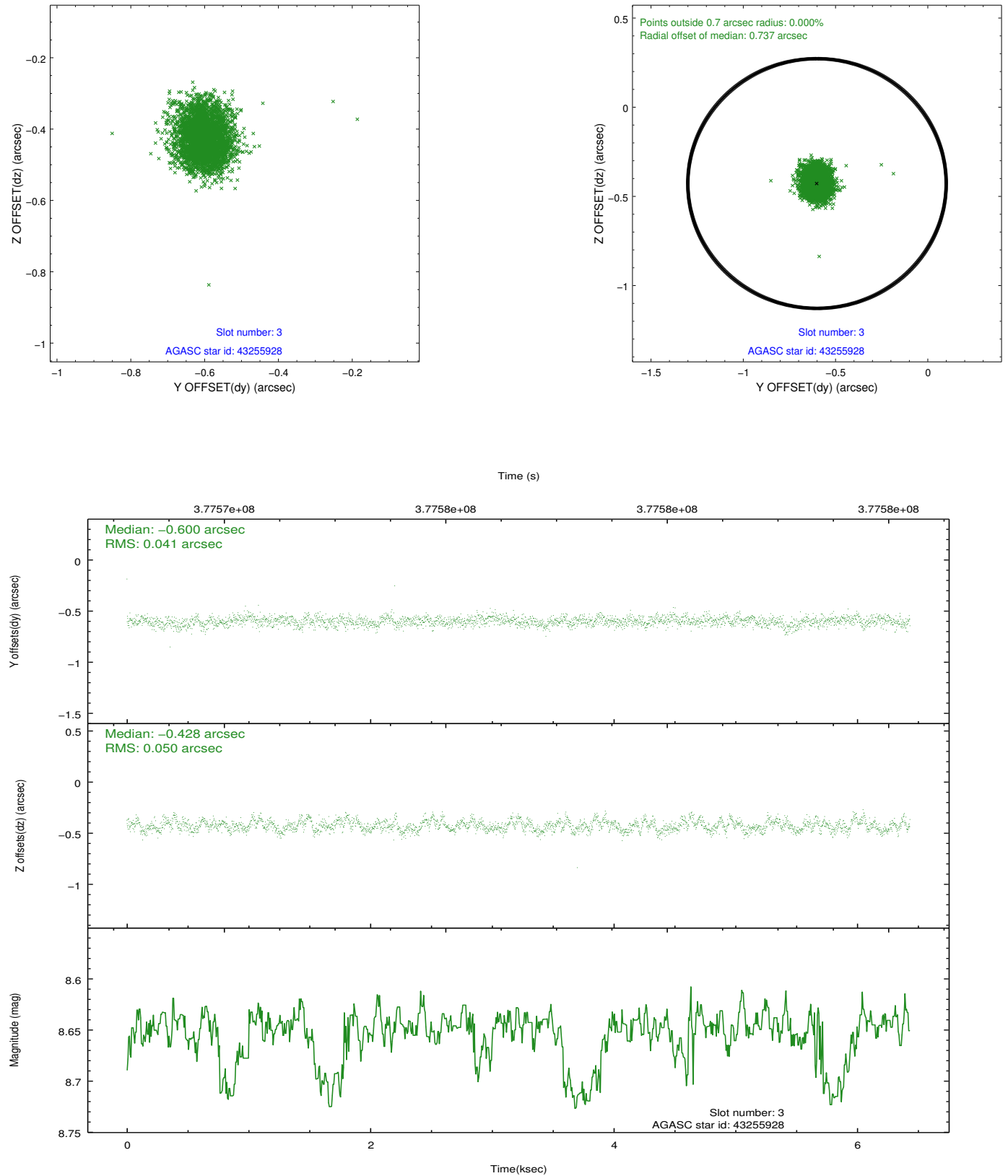


### Slot Statistics

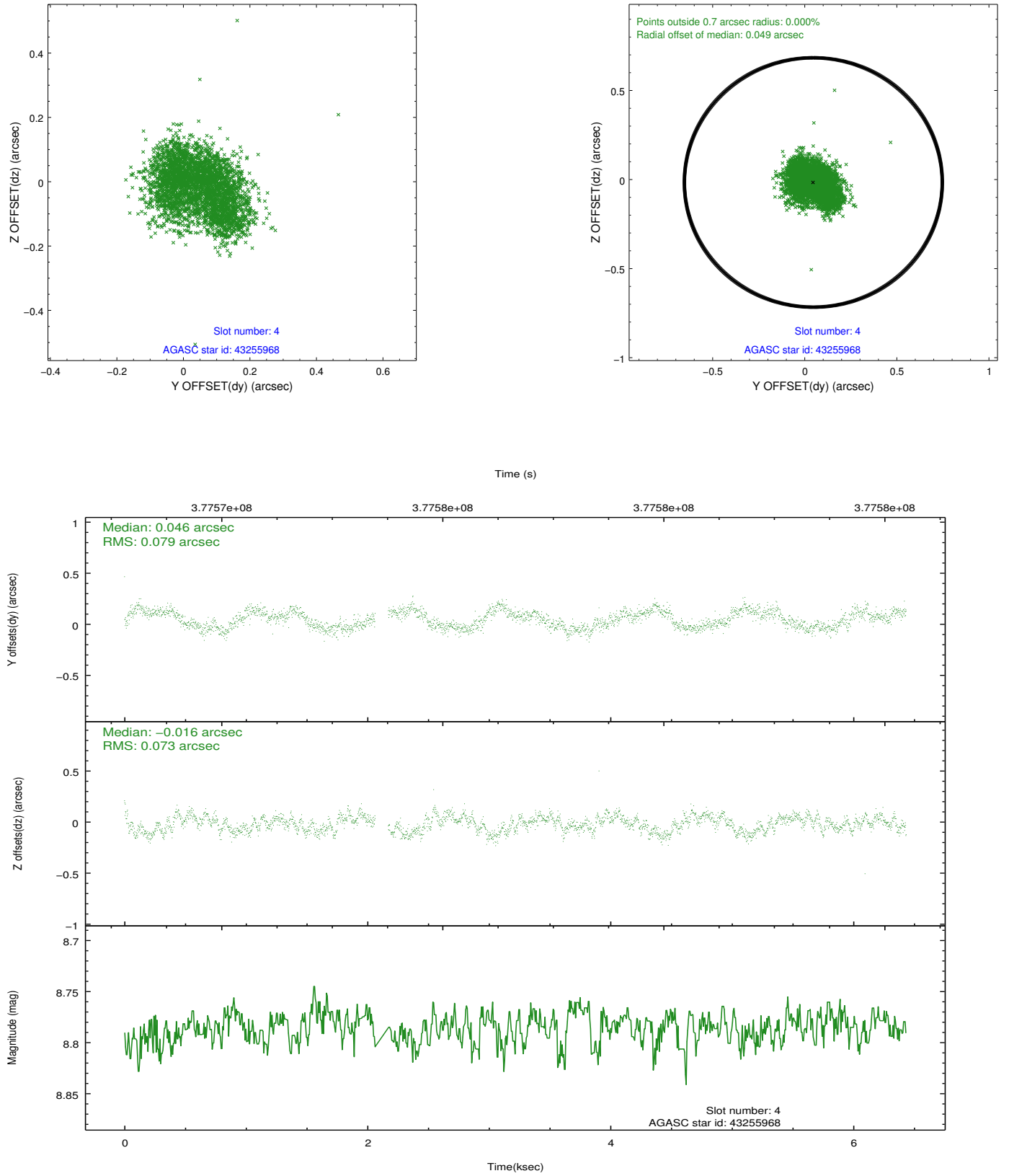
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	1569	-0.095	-0.010	0.008	0.012	0.000000	0.000000	-769.06	-1736.85
1	FID	ACIS-S-4	7.00	1569	0.177	0.049	0.008	0.014	0.000000	0.000000	2144.05	170.77
2	FID	ACIS-S-5	7.03	1569	-0.112	-0.030	0.007	0.012	0.000000	0.000000	-1820.77	165.37
3	GUIDE	43255928	8.65	3133	-0.600	-0.428	0.068	0.109	223.647948	3.841975	1174.95	1138.79
4	GUIDE	43255968	8.79	3084	0.046	-0.016	0.116	0.173	223.373114	3.409791	-665.67	1061.47
5	GUIDE	43264016	7.33	3139	0.045	0.143	0.071	0.115	224.070131	3.416127	783.67	-981.04
6	GUIDE	43265200	9.30	3130	0.269	0.126	0.115	0.191	223.622876	2.898220	-1664.23	-727.97
7	GUIDE	43265448	9.12	3130	0.244	0.171	0.105	0.165	223.466257	2.775043	-2350.47	-518.95

## 2.4 Star Slots

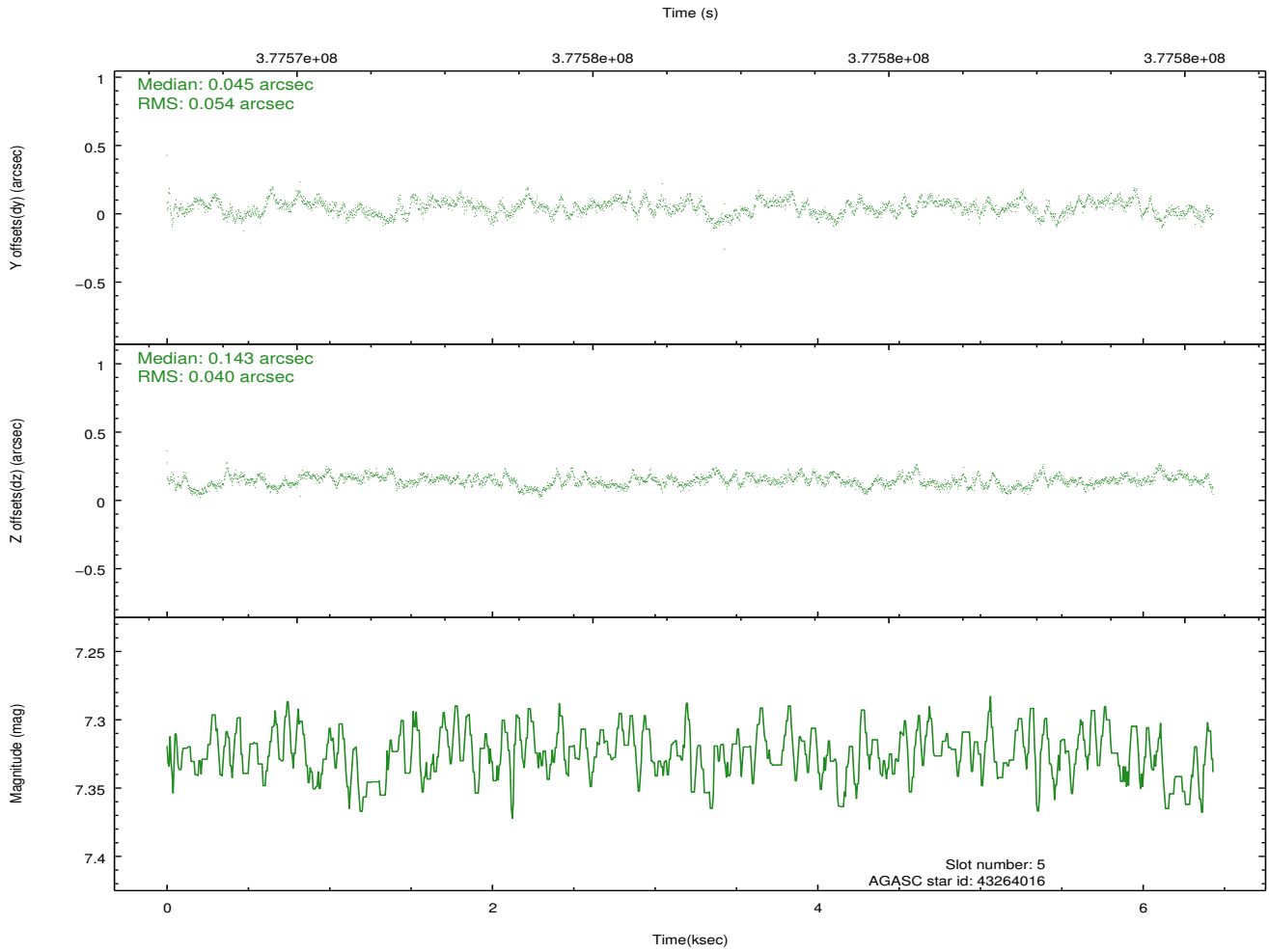
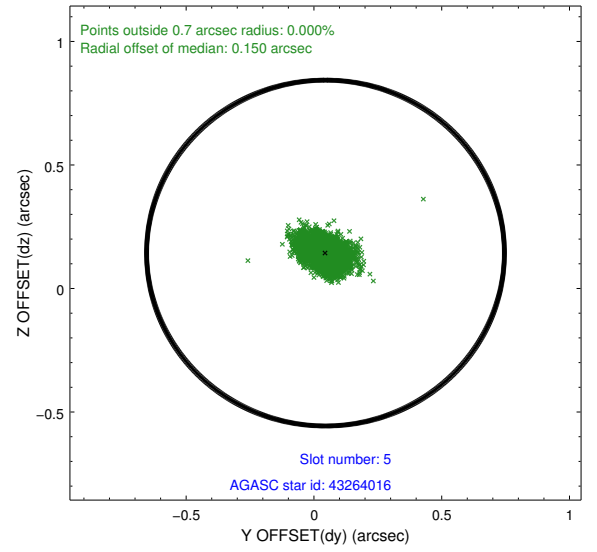
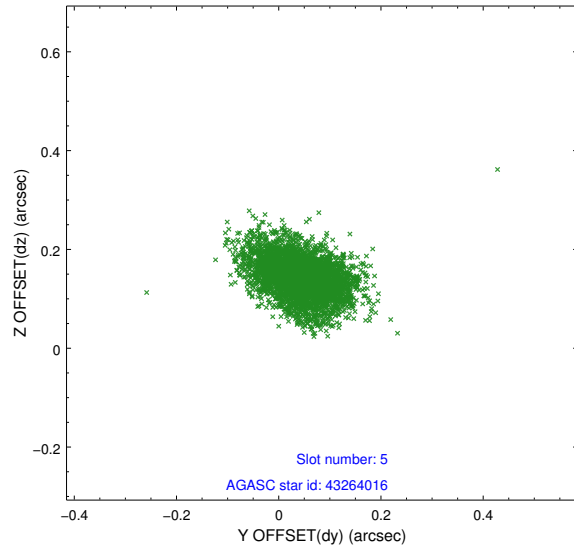
### 2.4.1 Slot 3



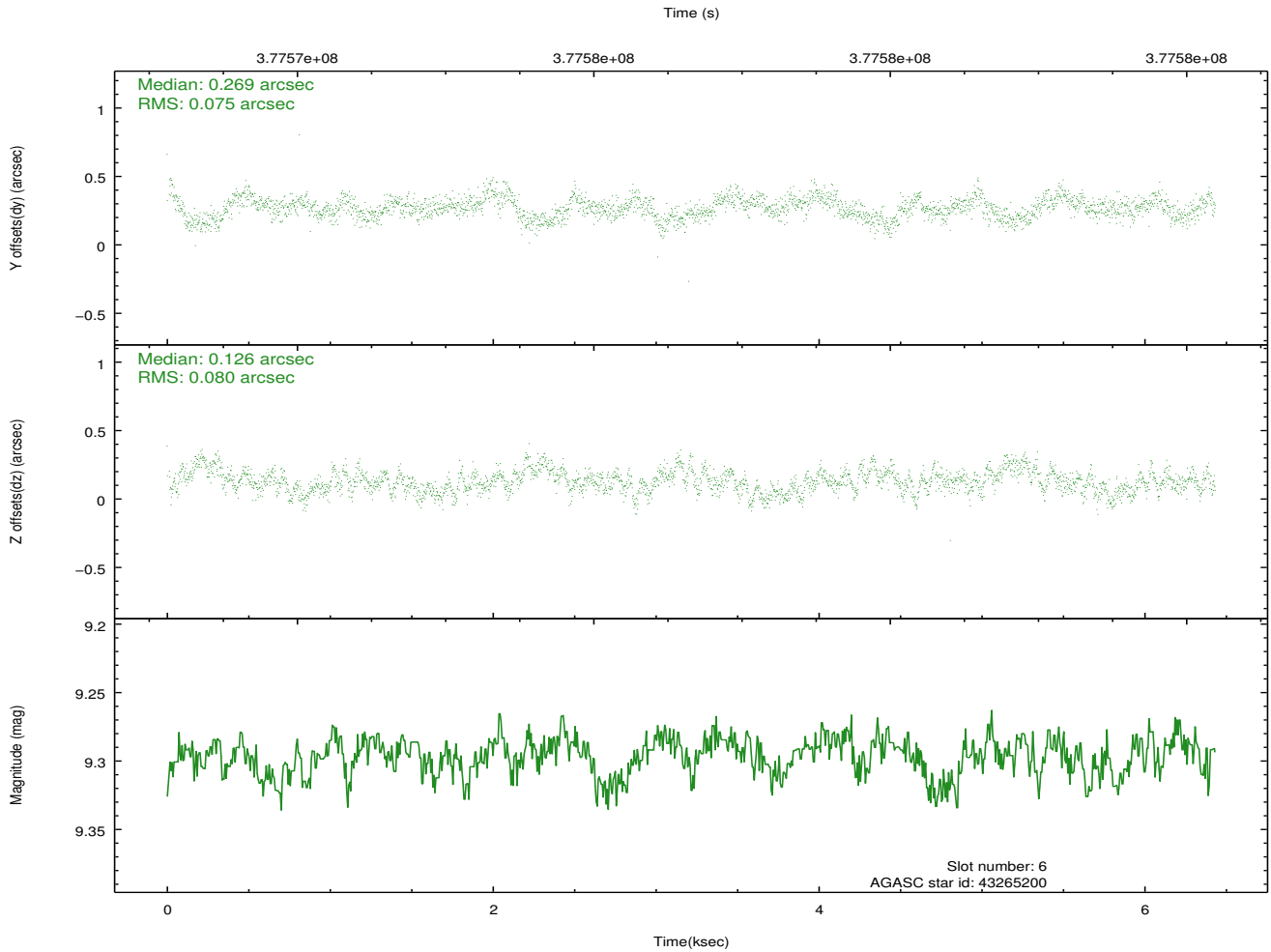
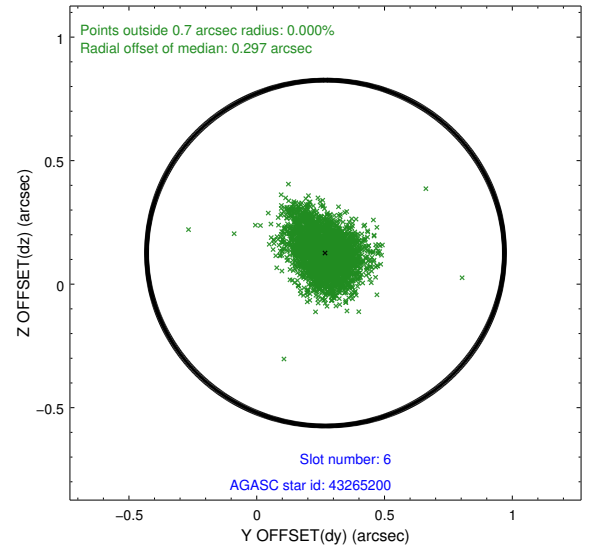
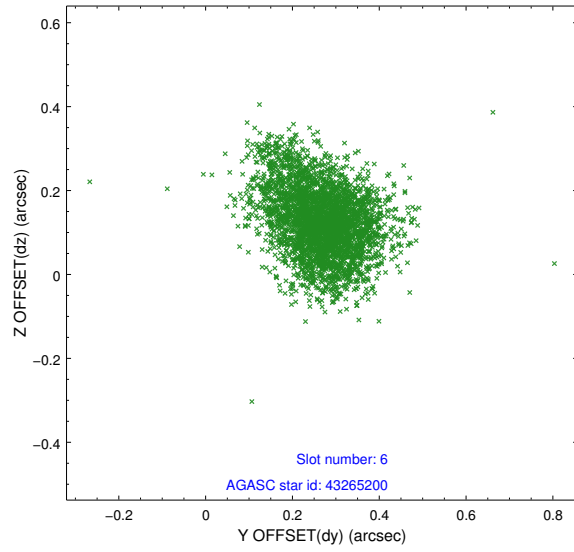
## 2.4.2 Slot 4



### 2.4.3 Slot 5

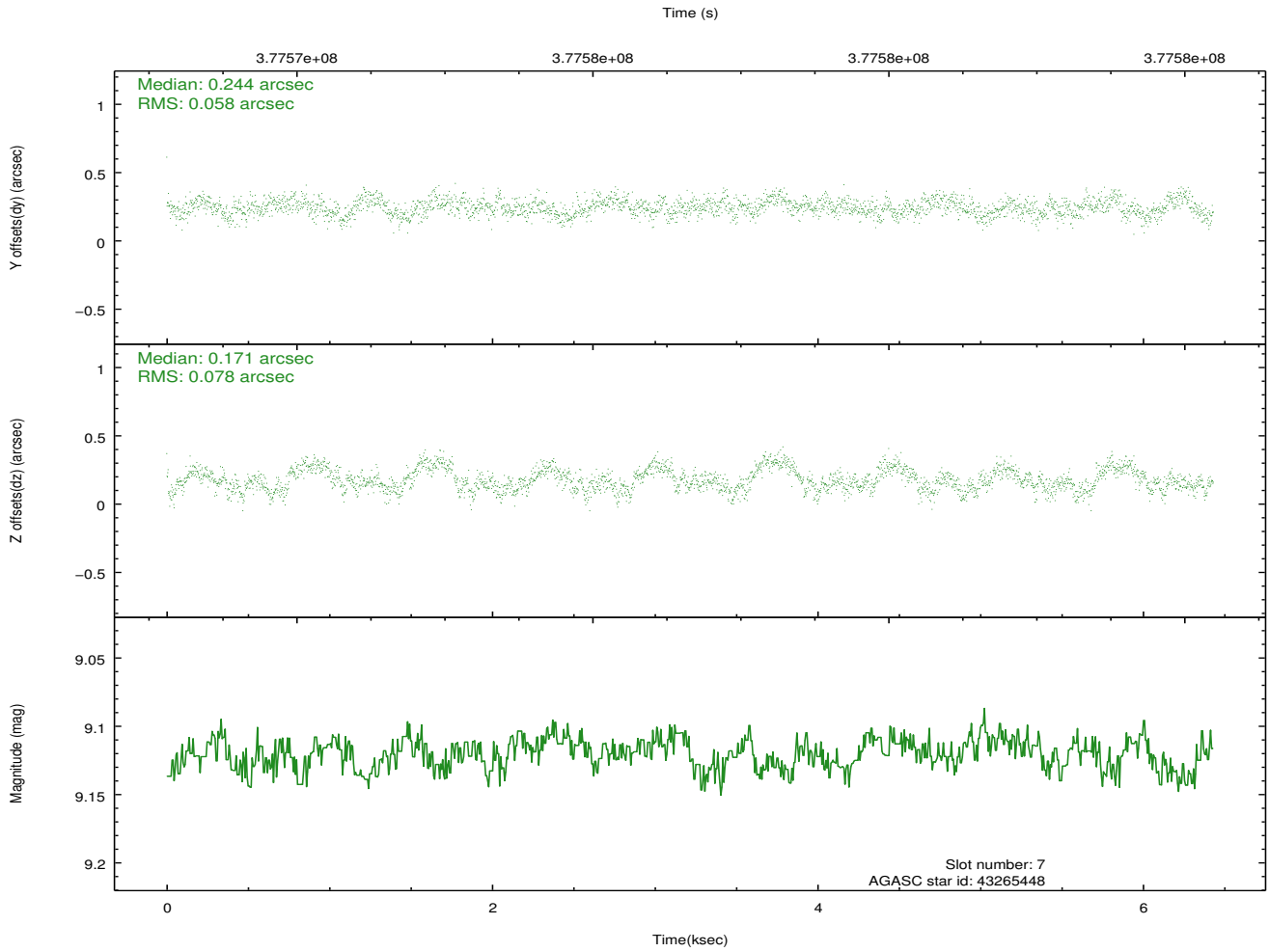
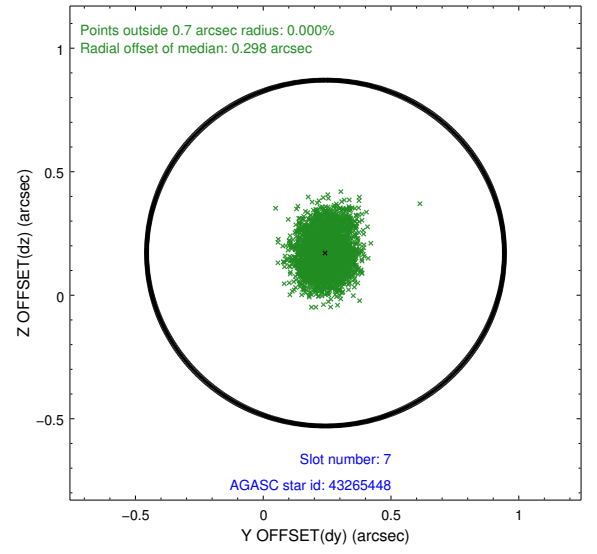
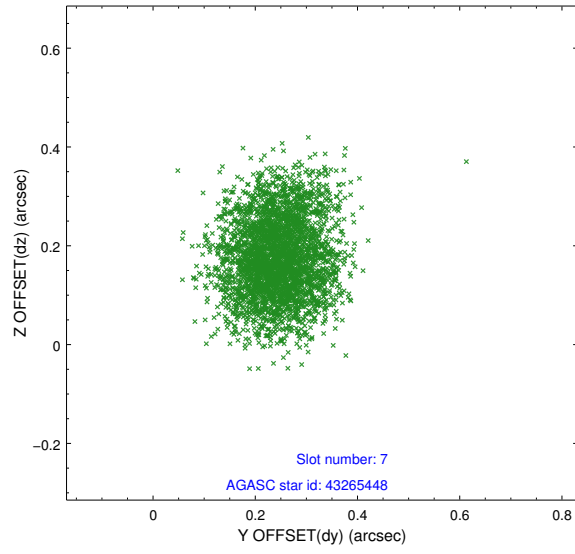


## 2.4.4 Slot 6



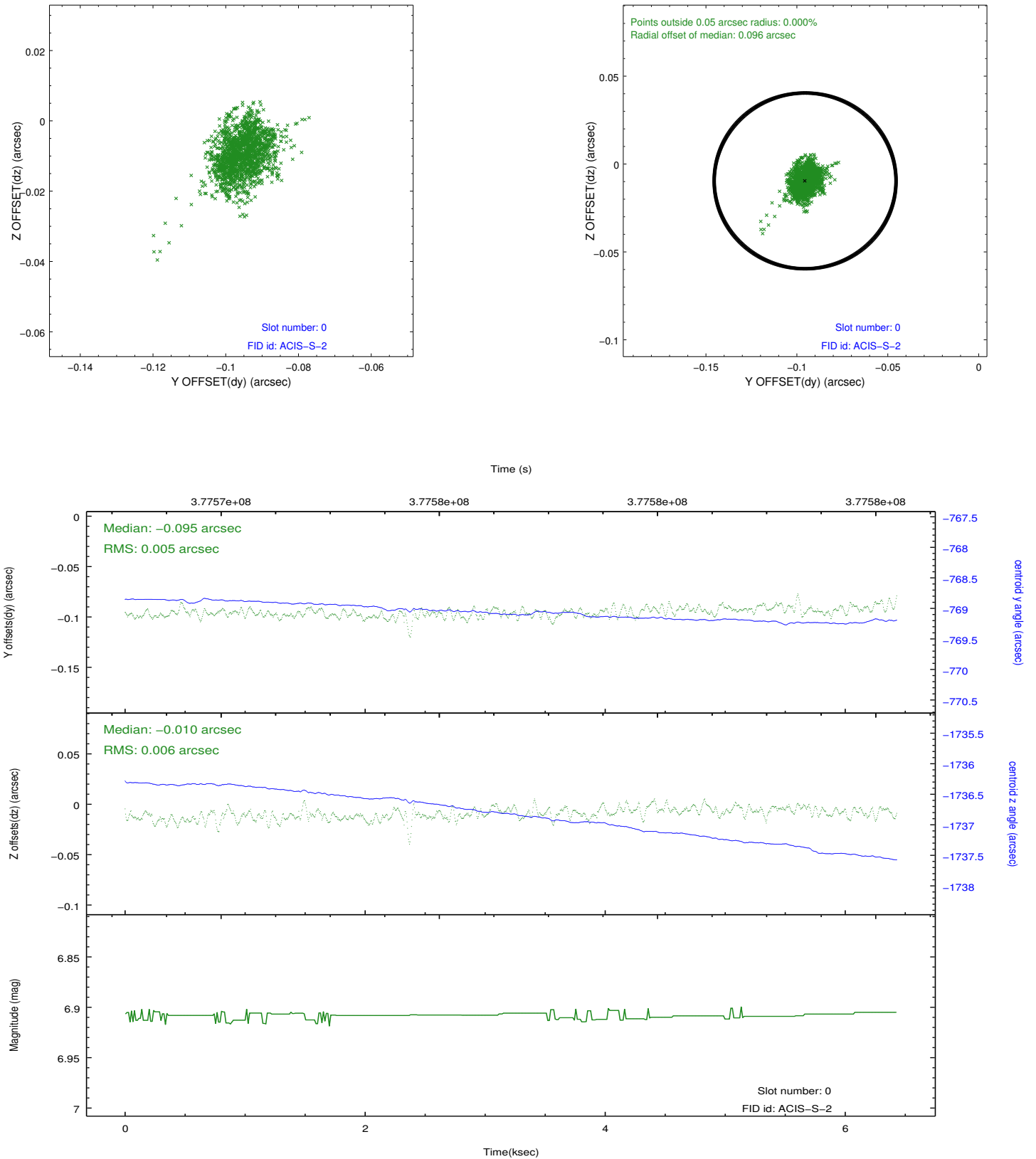


## 2.4.5 Slot 7

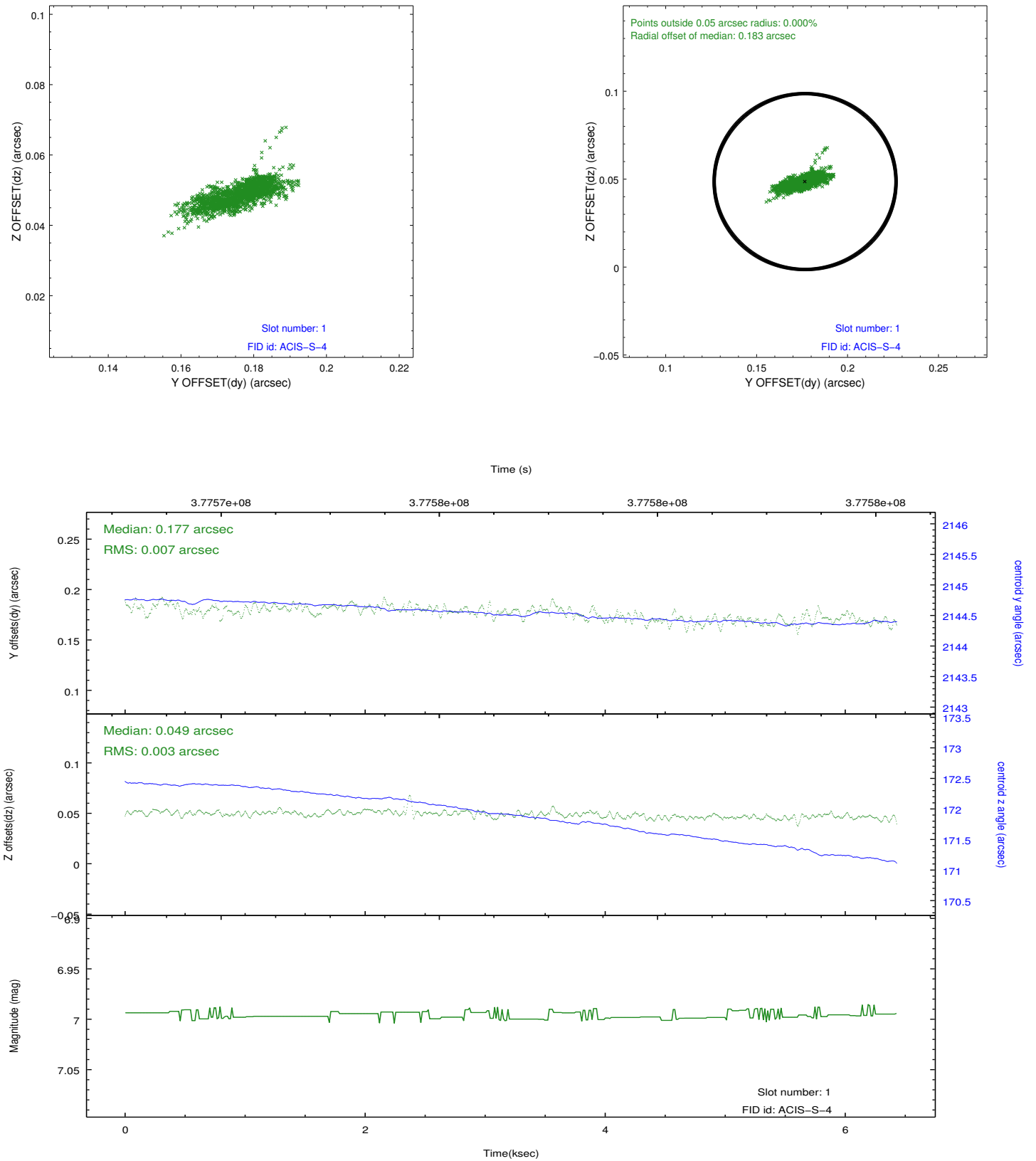


## 2.5 FID Slots

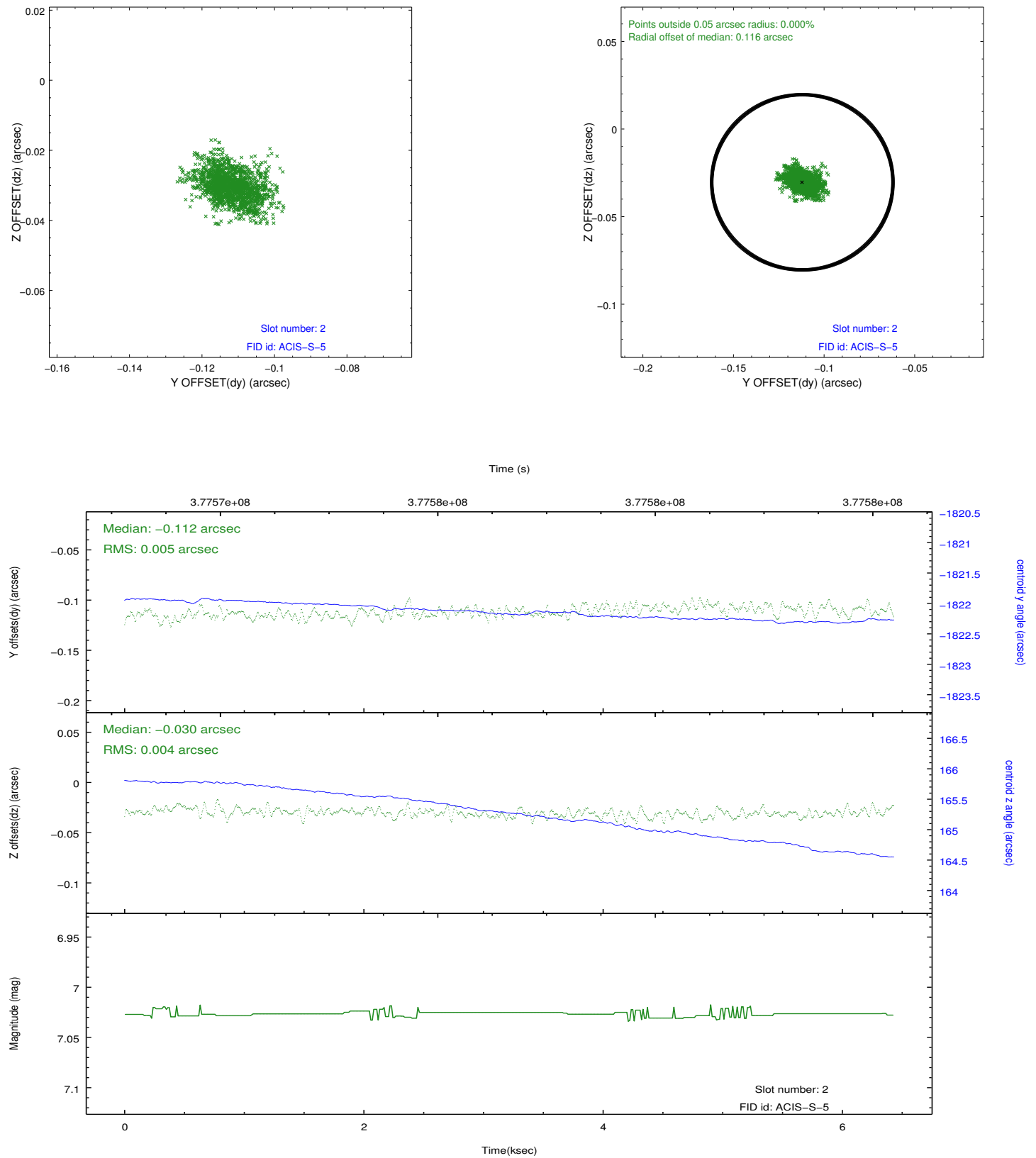
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.4255999761224

### A.2 Comments