

9. DYNAMIC FREQUENCY SELECTION: CHANNEL CLOSING TRANSMISSION TIME , CHANNEL MOVE TIME AND NON-OCCUPANCY PERIOD

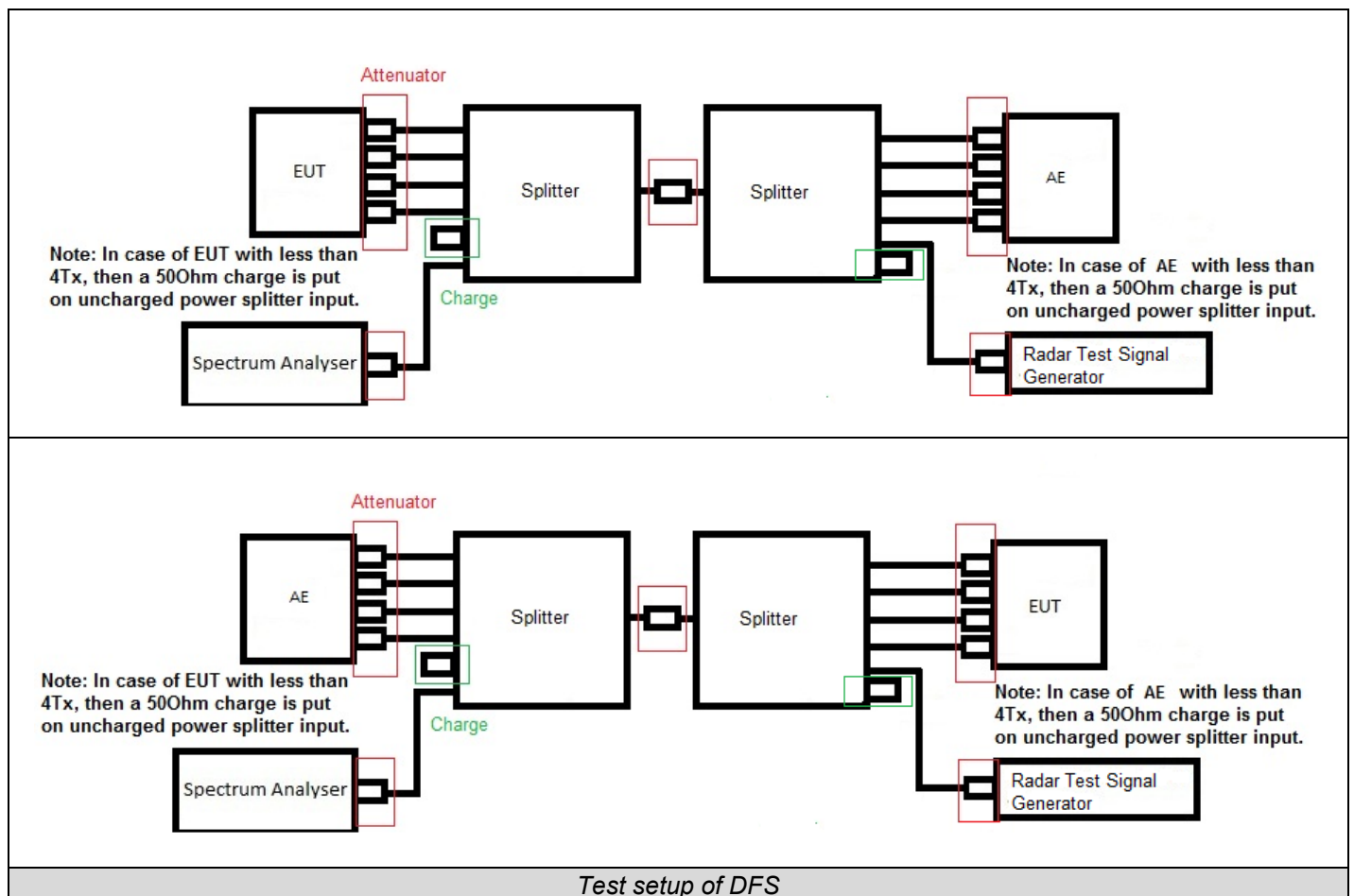
9.1. TEST CONDITIONS

Date of test : July 22, 2024
 Test performed by : Akram HAKKARI
 Relative humidity (%) : 33
 Ambient temperature (°C) : 21

9.2. TEST SETUP

The Equipment Under Test is installed on a table.

Measurement is performed with a spectrum analyzer or receiver at the EUT conducted access on **one channel with DFS capability for all available bands.**



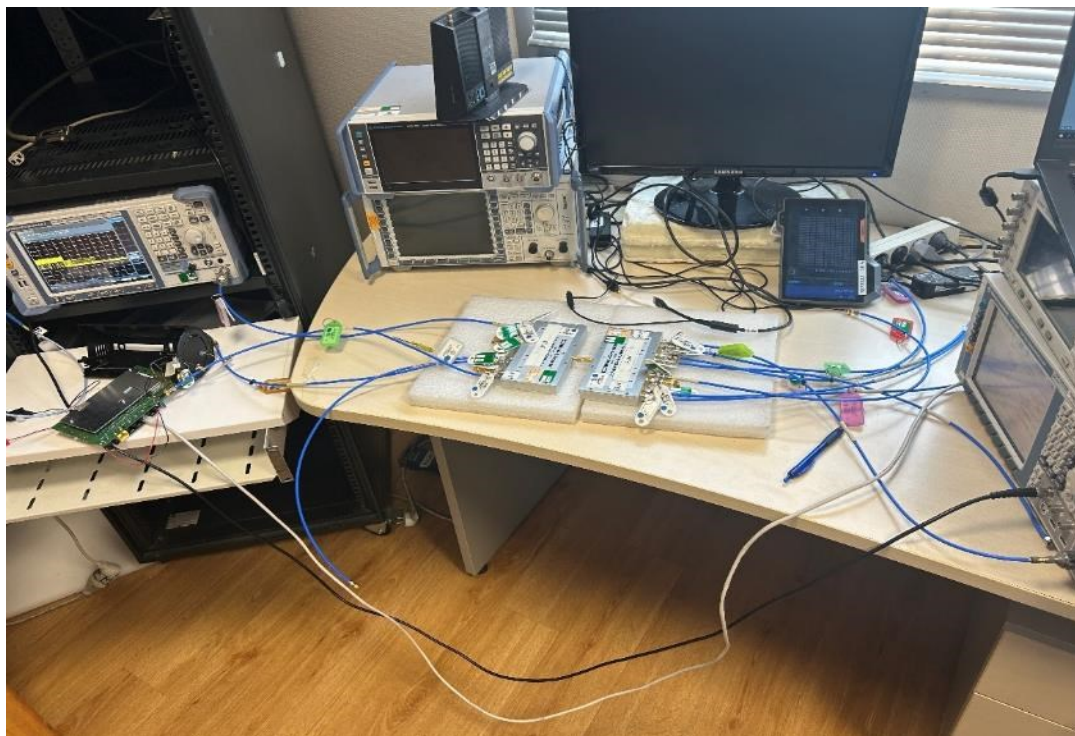


Photo of DFS

9.3. **LIMIT**

Channel Closing Transmission Time shall not exceed 0.26 second.
Channel Move Time shall not exceed 10 seconds.
Non-Occupancy Period shall exceed 1800 seconds



9.4. TEST EQUIPMENT LIST

TEST EQUIPMENT USED					
Description	Manufacturer	Model	Identifier	Cal_Date	Cal_Due
Attenuator 3dB SMA	Mini-Circuit	BW-S3W2+	A7122253	07/23	07/25
Attenuator 3dB SMA	Mini-Circuit	BW-S3W2+	A7122254	07/23	07/25
Attenuator 3dB SMA	Mini-Circuit	BW-S3W2+	A7122252	07/23	07/25
Attenuator 3dB SMA	Mini-Circuit	BW-S3W2+	A7122256	07/23	07/25
Attenuator 3dB SMA	Mini-Circuit	BW-S3W2+	A7122255	05/21	05/23
Attenuator 3dB SMA	Mini-Circuit	BW-S3W2+	A7122257	07/23	07/25
Attenuator 3dB SMA	Mini-Circuit	BW-S3W2+	A7122251	07/23	07/25
Attenuator 3dB SMA	Mini-Circuit	BW-S3W2+	A7122250	07/23	07/25
Attenuator 40dB SMA	Mini-Circuit	BW-S10W2+	A7122261	07/23	07/25
Attenuator 40dB SMA	Mini-Circuit	BW-S10W2+	A7122262	07/23	07/25
Attenuator 40dB SMA	Mini-Circuit	BW-S10W2+	A7122260	07/23	07/25
Attenuator 40dB SMA	Mini-Circuit	BW-S10W2+	A7122263	07/23	07/25
Attenuator 40dB SMA	Mini-Circuit	BW-S10W2+	A7122264	07/23	07/25
Attenuator 40dB SMA	Mini-Circuit	BW-S10W2+	A7122265	07/23	07/25
Cable Adap Splitter	—	6GHz	A5329636	02/23	02/25
Cable SMA	—	18GHz	A5329634		
Cable SMA 60cm	TELEDYNE	18GHz	A5329693	07/23	07/25
Cable SMA 60cm	TELEDYNE	18GHz	A5329692	07/23	07/25
Cable SMA 60cm	TELEDYNE	18GHz	A5329689	07/23	07/25
Cable SMA 60cm	TELEDYNE	18GHz	A5329697	07/23	07/25
Cable SMA 60cm	TELEDYNE	18GHz	A5329694	07/23	07/25
Cable SMA 60cm	TELEDYNE	18GHz	A5329683	07/23	07/25
Cable SMA 60cm	TELEDYNE	18GHz	A5329686	07/23	07/25
Cable SMA 60cm	TELEDYNE	18GHz	A5329688	07/23	07/25
Cable SMA 60cm	TELEDYNE	18GHz	A5329698	07/23	07/25
Cable SMA 60cm	TELEDYNE	18GHz	A5329685	07/23	07/25
Cable SMA 60cm (smj)	TELEDYNE	18GHz	A5329687	07/23	07/25
Full Anechoic Room	SIEPEL	—	D3044024		
Splitter	Mini Circuits	ZN8PD-642W-S+	A7130080	07/23	07/25
Splitter	Mini Circuits	ZN8PD-642W-S+	A7130081	07/23	07/25
Thermo-hygrometer	TESTO	608-H1	B4204120	03/23	03/25
Thermo-hygrometer (PM1/2/3)	KIMO	HQ 210	B4206022	05/23	05/25
Vector Signal Generator	ROHDE & SCHWARZ	SMJ100A	A5400043	05/22	09/24

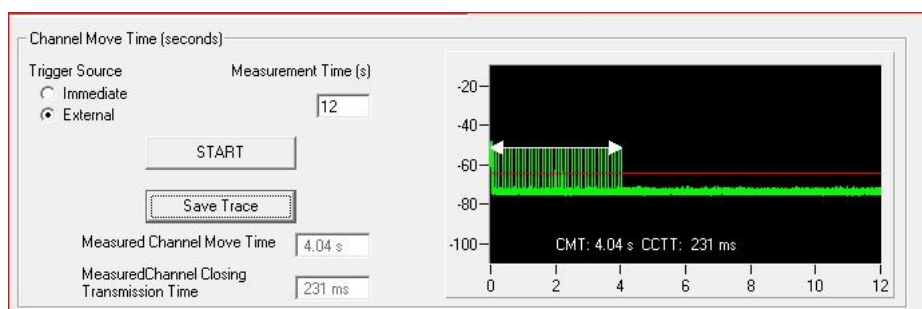
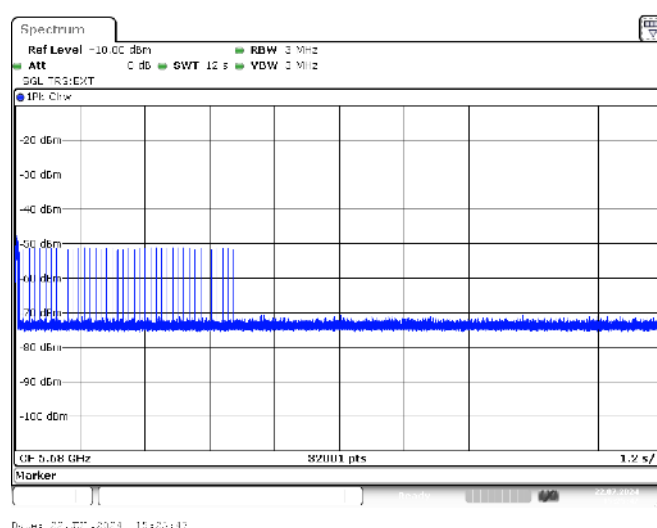
9.5. DIVERGENCE, ADDITION OR SUPPRESSION ON THE TEST SPECIFICATION

None

9.6. RESULTS

Mode:	802.11n HT20
Channel:	Channel 136 : 5.68GHz

Channel Closing Transmission Time & Channel Move Time



Channel Closing Transmission Time (ms)	231
Channel Move Time (s)	4.04



Mode:	802.11n HT40
Channel:	Channel 17 : 5.31GHz

Non Occupancy Period

Spectrum

Ref Level -30.00 dBm RBW 3 MHz

Att 0 dB SWT 1920 s VBW 3 MHz

SGL TRG:EXT

IPk Clrw

CF 5.32 GHz 32001 pts 192.0 s/

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.86 s	-70.83 dBm		
D2	M1	1	1.91814 ks	-0.98 dB		

```
root@kali:~# # u1 -i eth2 chan_info
channel 36 A Band
channel 40 A Band
channel 44 A Band
channel 48 A Band
channel 52 A Band, RADAR Sensitive, Passive
channel 56 A Band, RADAR Sensitive, Passive
channel 60 A Band, RADAR Sensitive, Passive
channel 64 A Band, RADAR Sensitive, Passive, Temporarily Out of Service for
31 minutes
channel 100 A Band, RADAR Sensitive, Passive
channel 104 A Band, RADAR Sensitive
channel 108 A Band, RADAR Sensitive, Passive
channel 112 A Band, RADAR Sensitive, Passive
channel 116 A Band, RADAR Sensitive, Passive
channel 132 A Band, RADAR Sensitive, Passive
channel 136 A Band, RADAR Sensitive, Passive
channel 140 A Band, RADAR Sensitive, Passive
channel 144 A Band
channel 149 A Band
channel 153 A Band
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Non occupancy period:

>31mn (1860sec)

9.7. CONCLUSION

Channel Closing Transmission Time , Channel Move Time & Non-Occupancy Period measurement performed on the sample of the product **AXIUM RX9000**, Sn: **2419MR900209 / 2419MR900267**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.407 & RSS-247** limits.



10. UNCERTAINTIES CHART

<i>Kind of measurement</i>	<i>Wide uncertainty laboratory</i>
Occupied Channel Bandwidth	$\pm 2.8 \%$
Humidity	$\pm 3.2 \%$
Power Spectral Density, Conducted	$\pm 1.7 \text{ dB}$
Radio frequency	$\pm 0.3 \text{ ppm}$
RF power, conducted	$\pm 1.2 \text{ dB}$
RF power, radiated (Full anechoic chamber above 1GHz)	$\pm 3.7 \text{ dB}$
RF power, radiated (Semi anechoic chamber & open test site)	$\pm 5.6 \text{ dB}$
Spurious emission, conducted	$\pm 2.3 \text{ dB}$
Spurious emission, radiated (Full anechoic chamber above 1GHz)	$\pm 3.8 \text{ dB}$
Spurious emission, radiated (Semi anechoic chamber & open test site)	$\pm 5.7 \text{ dB}$
Temperature	$\pm 0.75 \text{ }^{\circ}\text{C}$
Time	$\pm 2.3 \%$
Voltage	$\pm 1.7 \%$

The uncertainty values calculated by the laboratory are lower than limit uncertainty values defined by the standard. The conformity of the sample is directly established by the applicable limit values. This table includes all uncertainties maximum feasible for testing in the laboratory, whether or not made in this report.