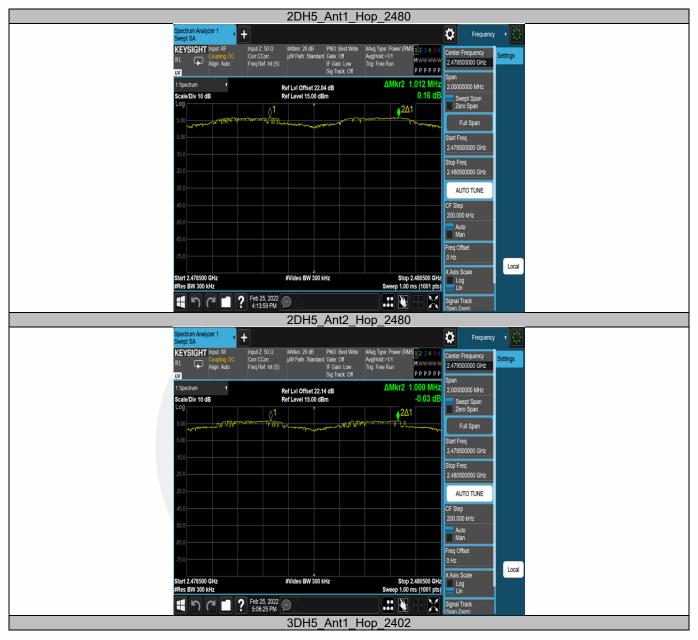


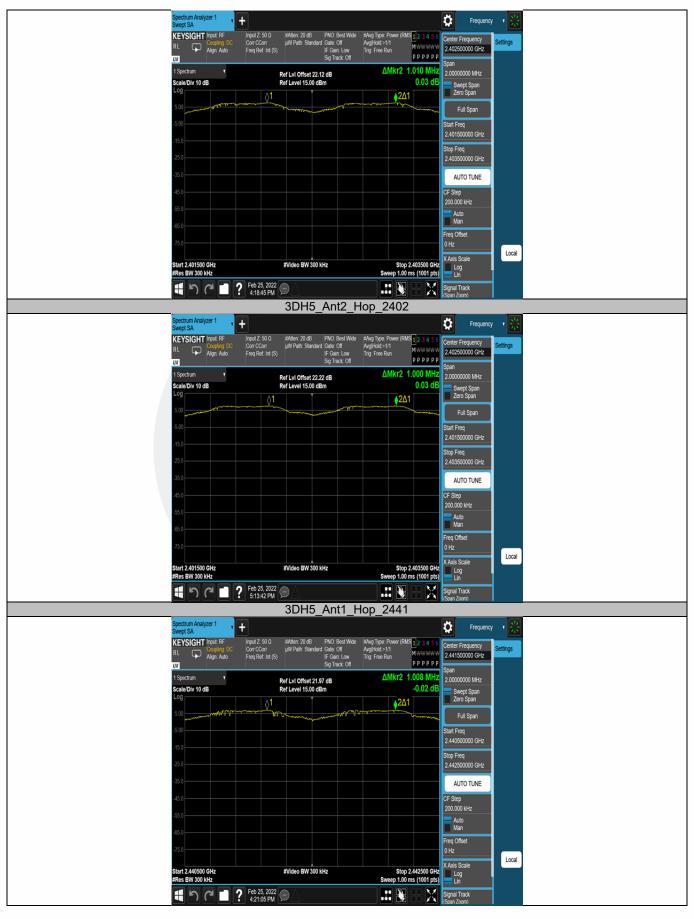
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## 9.3 NUMBER OF HOPPING FREQUENCIES

## 9.3.1 Applicable Standard

According to FCC Part 15.247(a)(1) and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02 According to IC RSS-247.5.1

### 9.3.2 Conformance Limit

Frequency hopping systems operating in the 2400-2483.5MHz band shall use at least 15 channels.

### 9.3.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

### 9.3.4 Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings: Span = the frequency band of operation (2400-2483.5MHz) RBW = 300KHz VBW  $\geq$  RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. It may prove necessary to break the span up to sections, in order to clearly show all of the hopping frequencies.

#### **Test Results**

Temperature:	25° C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: N/A

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DUE	Ant1	Нор	79	≥15	PASS
DH5	Ant2	Нор	79	≥15	PASS

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## 9.4 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

### 9.4.1 Applicable Standard

According to FCC Part 15.247(a)(1) and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02 According to IC RSS-247.5.1

## 9.4.2 Conformance Limit

For frequency hopping systems operating in the 2400-2483.5MHz band, the average time of occupancy on any channel shall not be greater than 0.4s within a period of 0.4s multiplied by the number of hopping channels employed.

#### 9.4.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

### 9.4.4 Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = zero span, centered on a hopping channel

 $\dot{RBW} = 1 MHz$ 

 $VBW \ge RBW$ 

Sweep = as necessary to capture the entire dwell time per hopping channel

Detector function = peak

Trace = max hold

If possible, use the marker-delta function to determine the dwell time. If this value

varies with different modes of operation (e.g., data rate, modulation format, etc.),

repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section.

# 9.4.5 Test Results

Temperature:	25° C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: TotalHops(DH1)=(1600/2/79)\*31.6 TotalHops(DH3)=(1600/4/79)\*31.6 TotalHops(DH5)=(1600/6/79)\*31.6 Dwell Time= BurstWidth\* TotalHops

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.35	320	0.112	≤0.4	PASS
	Ant2	Нор	0.35	320	0.112	≤0.4	PASS
	Ant1	Нор	1.61	160	0.258	≤0.4	PASS
DH3	Ant2	Нор	1.61	160	0.258	≤0.4	PASS
DH5	Ant1	Нор	2.86	106.67	0.305	≤0.4	PASS
DHS	Ant2	Нор	2.86	106.67	0.305	≤0.4	PASS

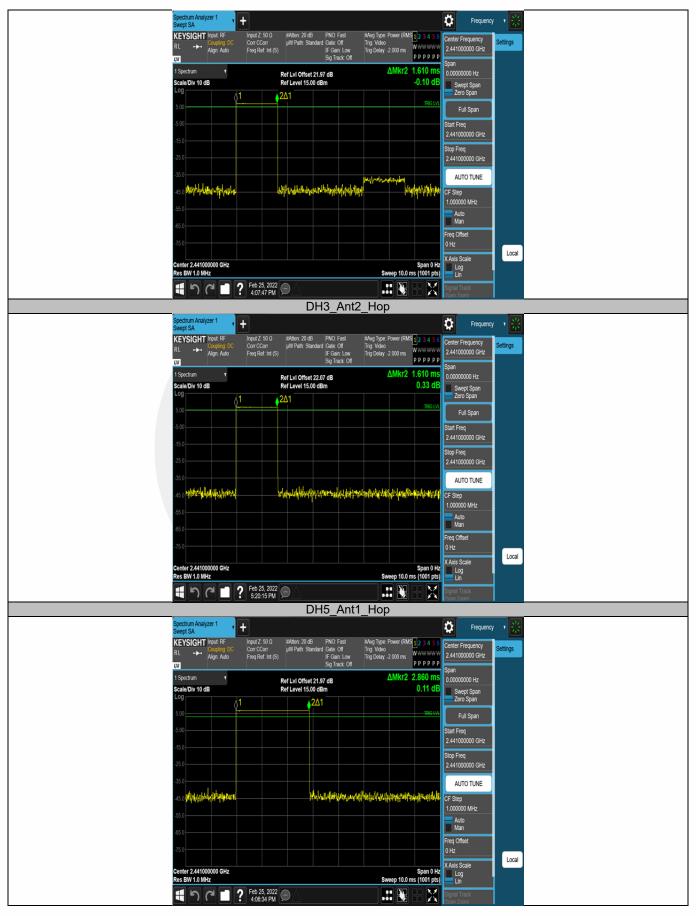
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# 9.5 MAXIMUM PEAK CONDUCTED OUTPUT POWER

#### 9.5.1 Applicable Standard

According to FCC Part 15.247(b)(1) and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02 According to IC RSS-247.5.4 and RSS-Gen 6.12

#### 9.5.2 Conformance Limit

The max For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

#### 9.5.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

#### 9.5.4 Test Procedure

As an alternative to a peak power measurement, compliance with the limit can be based on a measurement of the maximum conducted output power.

Use the following spectrum analyzer settings:

Set Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel (about 8MHz)

Set RBW > the 20 dB bandwidth of the emission being measured (about 3MHz)

Set VBW  $\geq$  RBW

Set Sweep = auto

Set Detector function = peak

Set Trace = max hold

Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission to determine the peak amplitude level.

#### **Test Results**

Temperature:	25° C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: N/A

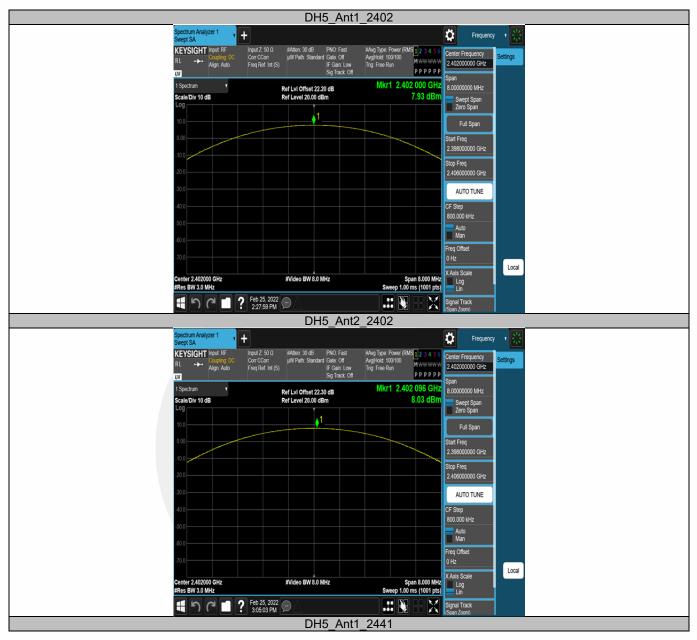
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Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
	Ant1	2402	7.93	≤20.97	PASS
	Ant2	2402	8.03	≤20.97	PASS
DH5	Ant1	2441	7.46	≤20.97	PASS
DHD	Ant2	2441	7.51	≤20.97	PASS
	Ant1	2480	7.11	≤20.97	PASS
	Ant2	2480	7.21	≤20.97	PASS
	Ant1	2402	7.76	≤20.97	PASS
	Ant2	2402	7.70	≤20.97	PASS
	Ant1	2441	7.26	≤20.97	PASS
2DH5	Ant2	2441	7.38	≤20.97	PASS
	Ant1	2480	6.94	≤20.97	PASS
	Ant2	2480	7.03	≤20.97	PASS
	Ant1	2402	7.84	≤20.97	PASS
	Ant2	2402	7.91	≤20.97	PASS
20115	Ant1	2441	7.29	≤20.97	PASS
3DH5	Ant2	2441	7.41	≤20.97	PASS
	Ant1	2480	6.97	≤20.97	PASS
	Ant2	2480	7.06	≤20.97	PASS

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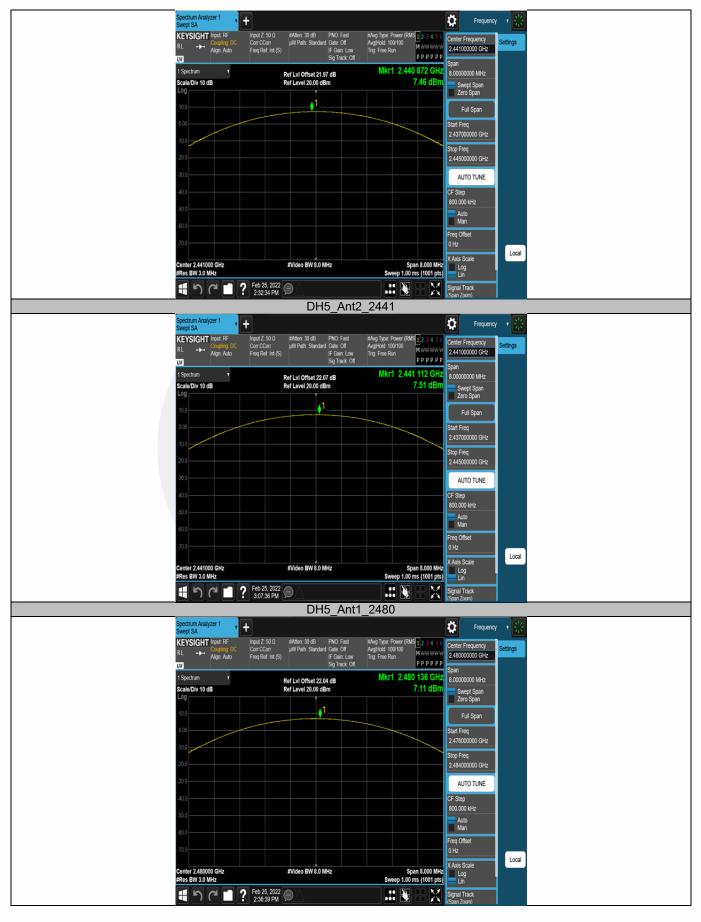




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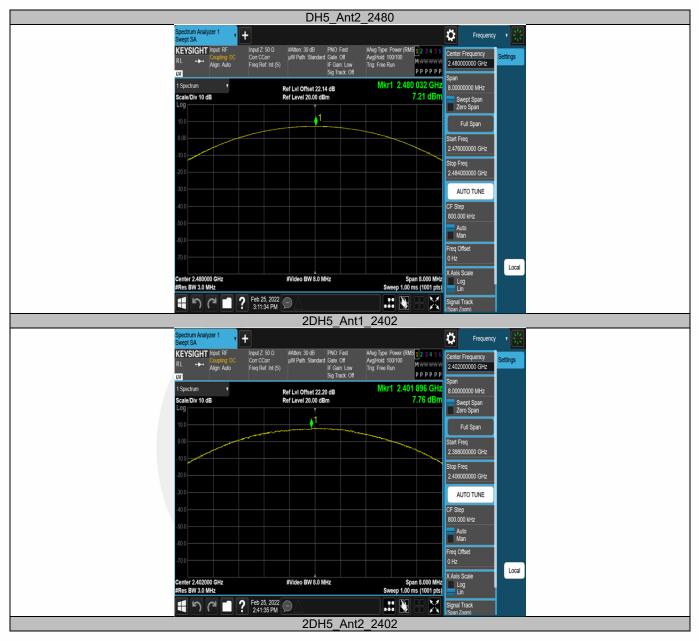






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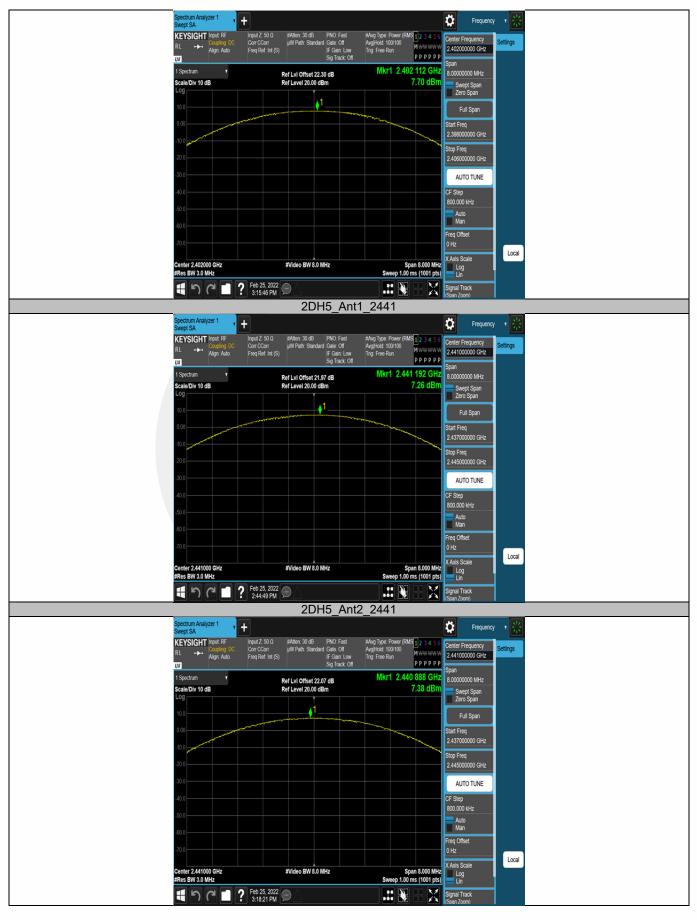




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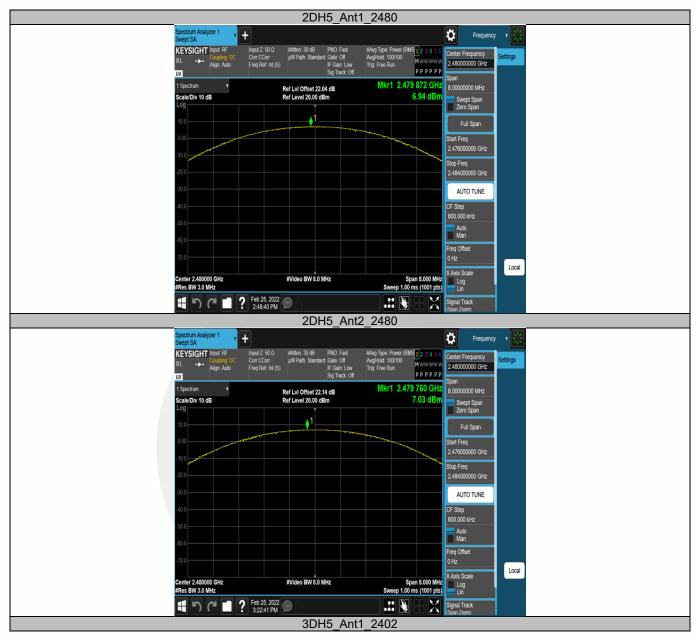






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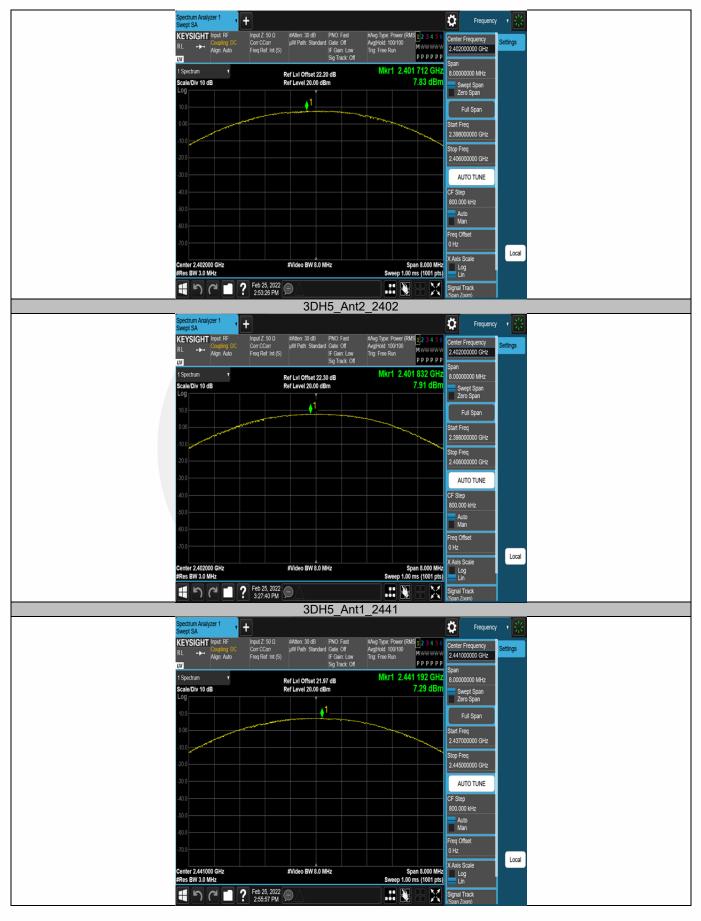




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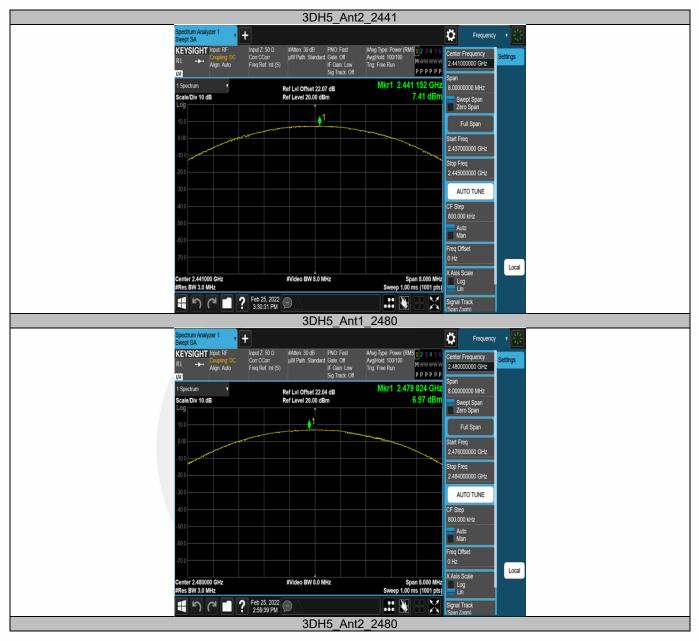






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## 9.6 CONDUCTED SUPRIOUS EMISSION

### 9.6.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02 According to IC RSS-247 5.5

# 9.6.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted, provided the transmitter demonstrates compliance with the peak conducted power limits.

### 9.6.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

### 9.6.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

# Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DSS channel center frequency.

Set Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel.

Set the RBW = 100 kHz. Set the VBW  $\ge$  3 x RBW.

Set Detector = peak. Set Sweep time = auto couple.

Set Trace mode = max hold. Allow trace to fully stabilize.

Use the peak marker function to determine the maximum Maximum conduceted level.

Note that the channel found to contain the maximum conduceted level can be used to establish the reference level.

# Band-edge measurement

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products which fall outside of the authorized band of operation

Set RBW  $\geq$  1% of the span=100kHz Set VBW  $\geq$  3 x RBW

Set Sweep = auto Set Detector function = peak Set Trace = max hold

Allow the trace to stabilize. Set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. The marker-delta value now displayed must comply with the limit specified in this Section.

Now, using the same instrument settings, enable the hopping function of the EUT. Allow the trace to stabilize. Follow the same procedure listed above to determine if any spurious emissions caused by the hopping function also comply with the specified limit.

# Emission level measurement

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic.(30MHz to 25GHz). Set RBW = 100 kHz Set VBW  $\ge$  RBW

Set Sweep = auto Set Detector function = peak Set Trace = max hold

Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this Section.

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## 9.6.5 Test Results

Temperature:	25°C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

#### Note: N/A

Band edge measurements

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
	Ant1	Low	2402	6.95	-49.91	≤-13.05	PASS
	Ant2	Low	2402	7.55	-51.31	≤-12.45	PASS
	Ant1	High	2480	6.30	-50.77	≤-13.70	PASS
DH5	Ant2	High	2480	6.37	-49.90	≤-13.63	PASS
DHD	Ant1	Low	Hop_2402	6.15	-38.50	≤-13.85	PASS
	Ant2	Low	Hop_2402	6.68	-47.89	≤-13.32	PASS
	Ant1	High	Hop_2480	6.21	-48.09	≤-13.80	PASS
	Ant2	High	Hop_2480	6.37	-48.50	≤-13.63	PASS
	Ant1	Low	2402	6.77	-51.26	≤-13.23	PASS
2DH5	Ant2	Low	2402	7.36	-51.35	≤-12.64	PASS
2005	Ant1	High	2480	6.40	-51.17	≤-13.60	PASS
	Ant2	High	2480	6.00	-50.14	≤-14.00	PASS
	Ant1	Low	2402	6.25	-50.52	≤-13.75	PASS
3DH5	Ant2	Low	2402	6.85	-50.63	≤-13.15	PASS
	Ant1	High	2480	6.69	-49.98	≤-13.31	PASS
	Ant2	High	2480	7.04	-50.42	≤-12.96	PASS

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Image: Set of the set of		6			Log		
DH5_Ant2_High_2480         KESSGHT Work         Vertices			2022				
DH5_An12_High_2480 Figure Average Ave					Signal Track (Span Zoom)		
Security Andorf       +       Control       Security Andorf			DH5_Ant2_H	igh_2480			
Image: Stand Product       Description       Market 20       Description       Descriptio					<b>Ö</b> Frequency	y , 🐺	
Image: Section of the section of th			0 #Atten: 20 dBPNO: East	#Avn Type: Power (BMS			
Out of the second of t		Coupling DC Corr CCorr	µW Path: Standard Gate: Off	Avg/Hold: 1/1		Settings	
Selection       Bit Levin (12)       Mid 4 2.43 2.00 cm       Selection         Also point       Also point       Selection       Selection         Also point       Selection       Selection       Selection         Also point       Selection       Selection       Selection         Also point       Selection       Selection       Selection         Selection       Selection       Selection       Selection       Selection         Selection       Selection       Selection       Selection       Selection       Selection         Selection       Selection       Selection       Selection       Selection       Selection         Selection       Selection       Selection       Selection       Selection       Selection       Selection       Selection       Selec		Augri. Auto Preq Kei. II		Thg. Free Kult			
Image: State in the state				Mkr4 2.491 28 GHz			
Image: Signed Field Signed Field Signed Field F							
State Law       Factor Function         Web Tools       State Law         State Law       Web Tools         State Law       State Law         State Law       State Law         State La		5.00					
State Law       Factor Function         Web Tools       State Law         State Law       Web Tools         State Law       State Law         State Law       State Law         State La		-5.00		Di 1-13 63 dBm	Full Span		
Image: Second Construction       Image: Second Construction       Image: Second Construction       Image: Second Construction         Image: Second Construction       Image: Second Construc		-15.0		0.1-12.00 0.011	<u> </u>		
Image: State in the image: State in		-35.0					
Image: Second Construction       Second Construction         Image: Second Construction       Second Construction       Second Construction         Image: Second Construction       Second Constructio		-45.0 <b>2 4</b>	٨3				
Statue Televise       Avideo Bit 30 Mit;       Statue Televise       Statue Televise         We first Scale       X       Y       Function       Funct		-55.0		博物时间和中心的情况和特殊			
Start 2/100 oft; Start 2/100		-75.0					
Statewin false       Image: Same X Y Function Function Webs       Function Webs <th></th> <td>Start 2.47000 GHz</td> <td>#Video BW 300 kHz</td> <td>Stop 2.55000 GHz</td> <td></td> <td></td> <td></td>		Start 2.47000 GHz	#Video BW 300 kHz	Stop 2.55000 GHz			
Image: Solution of the solution		#Res BW 100 kHz		Sweep 3.00 ms (1001 pts)			
Mode       Tack       Y       Fundoon       Fundoon       Munin       Munin         2       N       1       7       2403 50 GeV       423 55 Be       1       Fundoon		5 Marker Table v					
Stat ZJ0000 GHz X 47.44 dem     Com		Mode Trace Scale X	Y Function F	unction Width Function Value	Man		
3       N       1       2.500 00 cHz       57.44 dBm       Ucci         9       0       0       0       0       0       0       0         9       0 <td< td=""><th></th><td>1 2 N 1 f 24835</td><td>i0 GHz _52 35 dBm</td><td></td><td>Freq Offset</td><td></td><td></td></td<>		1 2 N 1 f 24835	i0 GHz _52 35 dBm		Freq Offset		
Image: Source in the second of the second		3 N 1 f 2.500 0	0 GHz -57.44 dBm		0 Hz		
Image: Discrete State       Image: Discrete S			:8 GHz _49.90 dBm			Local	
Image: Contract State And		6			Log Lin		
DHS_Ant1_Low_Hop_2402         Spectrum Analyzer 1         Impact 500         Spectrum Analyzer 1         Impact 500         Spectrum Analyzer 1         Impact 500         Regularized colspan="2">Spectrum Analyzer 1         Impact 500         Regularized colspan="2">Spectrum Analyzer 1         Impact 500         Spectrum Market 23.00 dm         Spectrum Market 23		1 5 C 1 25, 2	2022				
Spectrum Analyzer 1       +       Frequency       Frequency       Frequency       Frequency         KEYS/GHT Input IF       Input IF       Input IF       Frequency       Frequency       Sector         RL       +       Agen Addr       Frequency       Frequency       Sector       Sector         V       Frequency       Frequency       Frequency       Sector       Sector <t< td=""><th></th><td>3:09:24</td><td></td><td></td><td>(Span Zoom)</td><td></td><td></td></t<>		3:09:24			(Span Zoom)		
KEVSIGHT       Input Z: 50 0. Chr CO2m       Mater X30 dB Chr CO2m			DH5_Ant1_Low	_Hop_2402			
KEVSIGHT       Input Z: 50 0. Chr CO2m       Mater X30 dB Chr CO2m					Frequency	y → 器	
RL       Agginda       Concortor       WP Park Standard Gale Off       Agginda 20020       P P P P P       Standard Gale Off       Agginda 20020       Extended Standard Gale Off       Standard Gale Off       P P P P P       Standard Gale Off       Standard Gale Off       P P P P P       Standard Gale Off       P P P P P       Standard Gale Off       Standard Gale Off       P P P P P       Standard Gale Off       Standard Gale Off       P P P P P       Standard Gale Off       P P P P P       Standard Gale Off       Standard Gale Off       Standard Gale Off       Standard Gale Off       P P P P P       Standard Gale Off		KEYSIGHT Input: RF Input Z: 50	Ω #Atten: 30 dB PNO: Fast	#Avg Type: Power (RMS 1 2 3 4 5 6	Capter Fraguency		
CU       Sign Track Off       P P P P P P       Sign Track Off       P P P P P P         1 Spectrum       •       Ref L vid Offset 2134 dB       Mkr5 2.366 570 GHz       Sign Track Sign Trac			uW Path: Standard Gate: Off	Avg Hold: 200/200		Settings	
1 Spectrum       *       Ref Lvi Offset 21.94 dB       MKr5 2.366 570 GHz       06.00000 MHz         Scale Div 10 dB       Ref Lvel 20.00 dBm       -38.50 dBm       -38.50 dBm       -38.50 dBm         10			Sig Track: Off				
Scale/Div 10 dB       Ref Level 20.00 dBm       -33.50 dBm       Swept Span         Log		1 Spectrum v					
10       0				-38.50 dBm	Swept Span		
100       1		10.0		₹	Zero Span		
30.0       4       5       3       2       200000000 GHz         40.0       5       3       2       200000000 GHz       Stop Freq         5       3       0       1       1       2       1       1       1       2       1       1       1       2       1       6       1		0.00			Full Span		
30.0       4       5       3       2       200000000 GHz         40.0       5       3       2       200000000 GHz       Stop Freq         5       3       0       1       1       2       1       1       1       2       1       1       1       2       1       6       1		-20.0		UL1-13.00	Start Freq		
Stop       Freq         Stop       Freq         Starts 2.30000 GHz       #Video BW 300 kHz         Stres BW 100 kHz       Sweep 3.87 ms (1001 pt)         Starts Findle       V         Mode       Trace.         Starts 0000 GHz		-30.0	5-	<u>∆3 ∆2</u>			
Mode       Trace       Scale       X       Y       Function       Width		-40.0 water strend for the strend str	Marth Carl and the Construction of the Constru	en internet of the state of the			
Start 2.3000 GHz         #Video BW 300 KHz         Stop 2.40500 GHz         GE         Made         Ma		-60.0			2.40500000 GHz		
Start 2.3000 GHz         #Video BW 300 KHz         Stop 2.40500 GHz         GE         Made         Ma		-70.0			AUTO TUNE		
Marker Table         V         Function         Function <t< td=""><th></th><td></td><td>#Video BW 300 kHz</td><td></td><td></td><td></td><td></td></t<>			#Video BW 300 kHz				
Mode         Trace         Scale         X         Y         Function         Function Width         Function Value           1         N         1         f         2.403.950 GHz         6.151 dBm         Main         Main           2         N         1         f         2.400.000 GHz         4.156 dBm         Main         Freq Offset         0 Hz           3         N         1         f         2.300.000 GHz         4.135 dBm         Main         Hz         1.135 dBm         1.125         1.135 dBm         1.135 dBm         1.125         1.135 dBm         1.135 dBm         1.125         1.135 dBm         1.135				Sweep 5.67 ms (1001 pts)			
Mode         Trace         Scale         X         Y         Function         Function Width         Function Value         Man           1         N         1         f         2.403.950 GHz         6.151 dBm         Freq Offset         Freq Offset         Freq Offset         Freq Offset         0.12         Freq Offset         0.142         Freq Offset         0.142         Freq Offset         0.142         1.42         0.142         1.42         0.142         1.42         0.142         1.42         0.142         1.42         0.142         1.42         0.142 <th></th> <td>-3 marker lable V</td> <td></td> <td></td> <td>Auto</td> <td></td> <td></td>		-3 marker lable V			Auto		
2       N       1       f       2.400 000 GHz       41.65 dBm       Help Uffset         3       N       1       f       2.390 000 GHz       41.35 dBm       0 Hz       0 Hz         4       N       1       f       2.310 000 GHz       42.67 dBm       0 Hz       Local         5       N       1       f       2.365 700 GHz       -385 70 GHz       X Axis Scale       Local				unction Width Function Value	Man		
4 N 1 f 2.310 000 GHz 42.67 dBm 5 N 1 f 2.366 570 GHz 33 63 dBm X Axis Scale		2 N 1 f 2.400 00	10 GHz -41.65 dBm				
5 N 1 f 2 366 570 GHz - 38 50 dBm X Axis Scale						Local	
		5 N 1 f 2.366 57					
					Lin		
Image: Span and		1 5 C 7 Feb 25, 2	2022 PM		Signal Track		
	L				(Span Zoom)		

**深圳信测标准技术服务股份有限公司**地址:广东省深圳市南山区马家龙工业区69栋 网址:Http://www.emtek.com.cn 邮箱:cs.rep@emtek.com.cn



	DH5_Ant2_Low_Hop_2402	
Spectrum Analyzer 1 v + Swept SA		Frequency v 🔛
Coupling DC Corr C	Z 50 Ω #Atten: 20 dB PNC: Fast #Avg Type Power (RMS 2 3 4 5 0 CCorr pW Path: Standard Gate Off Avgfloid >11 MWWWWW Ref Int (S) If a fam. Low Trig: Free Run P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.P.	2.352500000 GHz
1 Spectrum v Seale/Div 10 dB Log	Ref Lvi Offset 22.04 dB Mkr5 2.370 560 GH; Ref Level 15.00 dBm -47.89 dBn	2 105.000000 MHz
5.00 .5.00 .15.0 .25.0	QL1-13.22,43	Full Span Start Freq
35.0 45.0 55.0 65.0		2.30000000 GHz Stop Freq 2.40500000 GHz
.75 0 Start 2.30000 GHz #Res BW 100 KHz	#Video BW 300 kHz Stop 2.40500 GH Sweep 3.87 ms (1001 pts	) CF Step
1 N 1 f 2.40	X Y Function Function Width Function Value 03 950 GHz 6.683 dBm	10:500000 MHz Auto Man Freq Offset
3 N 1 f 2.39 4 N 1 f 2.31	00 000 GHz 49.43 dBm 900 GHz 40.44 Bm 10 000 GHz 50.44 dBm 70 560 GHz 47.89 dBm	CHZ Local Local Local
	225,2022 🗩 🛆 🔛 🔛 🔛	
	DH5_Ant1_High_Hop_2480	
Spectrum Analyzer 1 Swept SA	Z 50 Ω #Atten: 20 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 /	Frequency •
Coupling DC Corr C	CCorr µW Path: Standard Gate. Off Avg Hold>111 М WW WW Ref. Int (S) IF Gain. Low Trig: Free Run Sig Track. Off Р Р Р Р Р	Settings Scan
1 Spectrum V Scale/Div 10 dB Log 5,00 mm	Ref Level 15.00 dBm Mkr4 2.522 88 GH2 Ref Level 15.00 dBm -48.09 dBn	swept Span
-5:00	0(113 80 dBe	Full Span Start Freq
35.0 45.0 55.0 85.0	4	2.47000000 GHz Stop Freq 2.55000000 GHz
.75.0 Start 2.47000 GHz #Res BW 100 kHz	#Video BW 300 kHz Stop 2.55000 GH Sweep 3.00 ms (1001 pts	) CF Step
	X Y Function Function Width Function Value	8.00000 MHz Auto Man
2 N 1 f 2.4 3 N 1 f 2.5	480 00 GHz 6.205 dBm 483 50 GHz 5.036 dBm 500 GHz - 49.35 dBm 522 88 GHz - 48.09 dBm	Freq Offset 0 Hz X Avis Scale Log Log
	125,2022	
	DH5_Ant2_High_Hop_2480	

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