

























### 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 ≥ 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

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.58	≤20.97	PASS
DH5	Ant1	2441	3.03	≤20.97	PASS
DH5	Ant1	2480	2.73	≤20.97	PASS
2DH5	Ant1	2402	2.67	≤20.97	PASS
2DH5	Ant1	2441	3.19	≤20.97	PASS
2DH5	Ant1	2480	2.95	≤20.97	PASS
3DH5	Ant1	2402	2.85	≤20.97	PASS
3DH5	Ant1	2441	3.25	≤20.97	PASS
3DH5	Ant1	2480	3.19	≤20.97	PASS

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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 = Set VBW  $\geq$  RBW 100 kHz

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.



### 9.6.5 Test Results

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

### Note: N/A

All the antenna and modes mode have been tested, and the worst result recorded was report as below:

Band edge measurements

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.40	-41.76	≤-18.6	PASS
DH5	Ant1	High	2480	1.52	-41.96	≤-18.48	PASS
DH5	Ant1	Low	Hop_2402	1.37	-41.39	≤-18.63	PASS
DH5	Ant1	High	Hop 2480	1.85	-40.23	≤-18.15	PASS

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pectrum Analyzer 1 wept SA Ö + Frequency #Atten: 30 dB PNO: Fast µW Path: Standard Gate: Off IF Gain: Low Sig Track: Off Input Z: 50 Ω Corr CCorr KEYSIGHT Input: RF #Avg Type: Power (RMS 1 2 3 4 5 ( Center Frequency Avg|Hold: 1000/1000 Trig: Free Run Settings Align: Auto MWWWV Freq Ref: Int (S) 2.352500000 GHz рррррр L)(I Span Mkr5 2.321 105 GHz 1 Spectrum 105.000000 MHz V Ref LvI Offset 11.57 dB Ref Level 20.00 dBm Scale/Div 10 dB -41.39 dBm Swept Span Zero Span Full Span дų Start Freq 2.30000000 GHz **∆**4 03 Δ5 ND Stop Freq 2.405000000 GHz AUTO TUNE Start 2.30000 GHz #Video BW 300 kHz Stop 2.40500 GHz #Res BW 100 kHz Sweep 3.87 ms (1001 pts) CF Step 10.500000 MHz 5 Marker Table ۲ Auto Man Trace Scale Х V Function Function Width Function Value Mode 2.404 790 GHz 2.400 000 GHz 2.390 000 GHz 2.310 000 GHz 1.369 dBm -42.73 dBm -44.41 dBm -42.86 dBm NNN Freq Offset Local X Axis Scale N 2.321 105 GHz -41.39 dBm Log Lin X Signal Track Span Zoor DH5-Ant1-Hop 2402-PASS Spectrum Analyzer 1 Swept SA + Ö Frequency #Atten: 30 dB PNO: Fast µW Path: Standard Gate: Off IF Gain: Low Sig Track: Off Input Z: 50 Ω #Avg Type: Power (RMS 1 2 3 4 5 ( Avg|Hold: 1000/1000 Trig: Free Run KEYSIGHT Input: RF Center Frequency Settings Align: Auto Freq Ref: Int (S) 2.510000000 GHz рррррр DA Span Mkr4 2.542 56 GHz 1 Spectrum Ref LvI Offset 11.64 dB 80.000000 MHz -40.23 dBm Scale/Div 10 dB Ref Level 20.00 dBm Swept Span Zero Span Full Span Start Freq 4 2.470000000 GHz ∆3 ⊘2 Stop Freq 2.550000000 GHz AUTO TUNE Stop 2.55000 GHz Sweep 3.00 ms (1001 pts) CF Step Start 2.47000 GHz #Res BW 100 kHz #Video BW 300 kHz . 8.000000 MHz 5 Marker Table ۷ Auto Man Function Function Width Function Value Trace Scale Mode 1.854 dBm -42.58 dBm -43.60 dBm 2.470 00 GHz NNN Freg Offset 2.483 50 GHz 2.500 00 GHz Local -40.23 dBn Ν 2.542 56 GHz X Axis Scale 5 6 Log Lin モッペロ? Jan 08, 2025 4:28:22 PM X Signal Track (Span Zoom) DH5-Ant1-Hop 2480-PASS

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Verdict

PASS

PASS

PASS PASS

PASS

PASS

PASS

PASS

PASS

#### RefLevel Result FreqRange Limit TestMode Antenna Frequency[MHz] [MHz] [dBm] [dBm] [dBm] DH5 Ant1 2402 0~Reference 1.93 1.93 ---DH5 Ant1 2402 30~1000 1.93 -49.96 ≤-18.07 DH5 Ant1 2402 1000~26500 1.93 -42.58 ≤-18.07 DH5 Ant1 2441 0~Reference 1.84 1.84 ---DH5 2441 30~1000 1.84 -50.49 ≤-18.16 Ant1 DH5 Ant1 2441 1000~26500 1.84 -44.13 ≤-18.16 DH5 Ant1 2480 0~Reference 1.74 1.74 ---DH5 Ant1 2480 30~1000 1.74 -51.81 ≤-18.26 DH5 Ant1 2480 1000~26500 1.74 -40.04 ≤-18.26





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pectrum Analyzer 1 wept SA Ö + Frequency #Atten: 20 dB PNO: Fast µW Path: Standard Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 ( Input Z: 50 Ω Corr CCorr KEYSIGHT Input: RF Center Frequency Avg|Hold: 5/5 Trig: Free Run Settings Align: Auto MWWWW Freq Ref: Int (S) 13.750000000 GHz рррррр L)(I Span Mkr2 4.803 75 GHz 1 Spectrum 25.5000000 GHz V Ref LvI Offset 11.81 dB Ref Level 15.00 dBm -42.58 dBm Scale/Div 10 dB Swept Span Zero Span Full Span DL1-18.07 dB Start Freq 1.00000000 GHz Stop Freq 26.50000000 GHz AUTO TUNE Start 1.00 GHz #Video BW 300 kHz Stop 26.50 GHz #Res BW 100 kHz Sweep ~943 ms (30001 pts) CF Step 2.550000000 GHz 5 Marker Table ۲ Auto Man Mode Trace Scale Function Function Width Function Value 2.401 65 GHz 0.09114 dBm 4.803 75 GHz -42.58 dBm N -req Offset Local X Axis Scale Log Lin **手っでこ?** Jan 08, 2025 🗩 X Signal Track (Span Zoom) DH5-Ant1-2402-1000~26500-PASS Spectrum Analyzer 1 Swept SA + Ö Frequency #Atten: 30 dB PNO: Best Wide #Avg Type: Power (RMS 1 2 3 4 5 . µW Path: Standard Gate: Off Avg|Hold: 10/10 IF Gain: Low Trig: Free Run P P P P P Input Z: 50 Ω KEYSIGHT Input: RF Center Frequency Settings Align: Auto Freq Ref: Int (S) 2.441000000 GHz рррррр DA ban 1 Spectrum Mkr1 2.440 970 0 GHz Ref LvI Offset 11.60 dB 1.5000000 MHz 1.84 dBm Scale/Div 10 dB Ref Level 30.00 dBm Swept Span Zero Span .og Full Span Start Freq ø 2.440250000 GHz monorgana M.M. Marin Stop Freq want want 2.441750000 GHz AUTO TUNE CF Step . 150.000 kHz Auto Man Freq Offset Local X Axis Scale enter 2.4410000 GHz #Video BW 300 kHz Span 1.500 MHz Log Lin #Res BW 100 kHz Sweep 1.00 ms (1001 pts) 「 う C<sup>a</sup> II ? Jan 08, 2025 … 4:12:54 PM  $\mathbb{X}$ Signal Track (Span Zoom) DH5-Ant1-2441-0~Reference-PASS

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pectrum Analyzer 1 wept SA Ö + Frequency #Atten: 20 dB PNO: Fast µW Path: Standard Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS 1 2 3 4 5 ( Input Z: 50 Ω Corr CCorr KEYSIGHT Input: RF Center Frequency Avg|Hold: 5/5 Trig: Free Run Settings Align: Auto MWWWW 515.000000 MHz Freq Ref: Int (S) рррррр L)(I Span Mkr1 144.01 MHz 1 Spectrum 970.000000 MHz Ref LvI Offset 11.60 dB Ref Level 15.00 dBm Scale/Div 10 dB -50.49 dBm Swept Span Zero Span .00 Full Span Start Freq 30.000000 MHz DL1 -18.16 dBi Stop Freq 1.000000000 GHz AUTO TUNE CF Step <u>\*</u>1 97.000000 MHz Auto Man a translation in had a shell a fill Nagravan pangawan papan kana para katalah sa baya kana na sarahan na ana kapan para kana sa kana kana kana kana Freq Offset 0 Hz Local X Axis Scale Stop 1.0000 GHz Sweep ~36.5 ms (30001 pts) Start 0.0300 GHz #Res BW 100 kHz #Video BW 300 kHz Log Lin  $\mathbb{X}$ Signal Track an Zooi DH5-Ant1-2441-30~1000-PASS Spectrum Analyzer 1 Swept SA + Ö Frequency #Atten: 20 dB PNO: Fast µW Path: Standard Gate: Off IF Gain: Low Sig Track: Off Input Z: 50 Ω #Avg Type: Power (RMS 1 2 3 4 5 ( Avg|Hold: 5/5 Trig: Free Run KEYSIGHT Input: RF Center Frequency Settings ++ Align: Auto Freq Ref: Int (S) 13.750000000 GHz рррррр DA Span 1 Spectrum Mkr2 4.881 95 GHz T Ref LvI Offset 11.60 dB 25.5000000 GHz -44.12 dBm Scale/Div 10 dB Ref Level 15.00 dBm Swept Span Zero Span  $\Delta 1$ Full Span DL1 -18.16 dE Start Freq 2 1.000000000 GHz Stop Freq 26.500000000 GHz AUTO TUNE Stop 26.50 GHz Sweep ~943 ms (30001 pts) CF Step Start 1.00 GHz #Res BW 100 kHz #Video BW 300 kHz 2.550000000 GHz 5 Marker Table Auto Man Function Function Width Function Value Trace Scale Mode Х 2.440 75 GHz 0.7640 dBm Freg Offset -44.12 dBm Ν 4.881 95 GHz Local X Axis Scale Log Lin 6 الله (13:08 PM) (13:08 PM) (13:08 PM) (13:08 PM)  $\mathbb{X}$ Signal Track (Span Zoom) DH5-Ant1-2441-1000~26500-PASS

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Spectrum Analyzer 1 Swept XA       +       Frequency       Frequency         KEYSIGHT [out 7:50 0 RL       Input 7:50 0 Corr Ccorr Freq Ref. Int (S)       #Alten 20 dB       PNO Fast WP alth: Standard Gale Off IIG Free Run       May Type: Power (RMS) 12 34 5 0 Mut 2 4.960 15 GHz       Center Frequency       Settings         I spectrum       Ref Lut Offset 11.67 dB       Mtr2 4.960 15 GHz       Somoto OHz       Span         Scale/Div 10 dB       Ref Level 15.00 dBm       -40.04 dBm       Start Freq       Start Freq         Start Freq       1.0000000 GHz       Start Freq       Start Freq       Start Freq         Start 1.00 GHz       #Video BW 300 kHz       Stop 26.50 GHz       Auto TUNE         Start Table       -       -       -       -         Mode       Trace       Scale       X       Y       Function Function Width       Function Value         1       -       2.479 85 GHz       -       -       -       -       -         1       -       2.490 15 GHz       -       -       -       -       -       -         1       -       2.479 85 GHz       -       -       -       -       -       -       -       -       -       -       -       -       -       -				
KEYSIGHT RL       Input RF Coupling DC Align Auto       Input RF Corr Ccorr Freq Ref. Int (S)       #Atten: 20 dB DC orr Ccorr Freq Ref. Int (S)       #Atten: 20 dB W Path. Standard Gate. Off IF Gan. Low Sig Track. Off       #Wog Type: Power (RMS]       2 3 4 5 6 AvgHold: 55 MyHod: 56 MyHod: 56 MyHod	Spectrum Analyzer 1 Swept SA	+	₽	Frequency V
Spectrum       Ref Lvi Offset 11.67 dB       Mkr2 4.960 15 GHz       Span         Scale/Div 10 dB       Ref Level 15.00 dBm       40.04 dBm       25.000000 GHz         State       1       -       -       -         State       2       -       -       -         State       2       -       -       -       -         State       75.0       -       -       -       -       -         State       75.0       -       -       -       -       -       -         State       75.0       - <t< td=""><td>KEYSIGHT     Input: RF       RL     ↔     Coupling: DC       Align: Auto     Image: Auto</td><td>Input Z: 50 Ω #Atten: 20 dB PNO: Fast Corr CCorr μW Path: Standard Gate. Off Freq Ref: Int (S) IF Gain: Low Sig Track. O</td><td>#Avg Type: Power (RMS 1 2 3 4 5 6 Avg Hold: 5/5 Trig: Free Run         Cen           13:         13:           p p p p p p         p</td><td>ter Frequency 75000000 GHz</td></t<>	KEYSIGHT     Input: RF       RL     ↔     Coupling: DC       Align: Auto     Image: Auto	Input Z: 50 Ω #Atten: 20 dB PNO: Fast Corr CCorr μW Path: Standard Gate. Off Freq Ref: Int (S) IF Gain: Low Sig Track. O	#Avg Type: Power (RMS 1 2 3 4 5 6 Avg Hold: 5/5 Trig: Free Run         Cen           13:         13:           p p p p p p         p	ter Frequency 75000000 GHz
Scale/Div 10 dB       Ref Level 15.00 dBm       -40.04 dBm       Swept Span         Log       1       -40.04 dBm       Swept Span         Statt Freq       -20       -20       -20       -20         -250       -22       -20       -20       -20       -20         -250       -22       -20       -20       -20       -20       -20         -250       -22       -20       -20       -20       -20       -20       -20         -250       -22       -20	1 Spectrum 🔻	Ref LvI Offset 11.67 dB	Mkr2 4.960 15 GHz 25.	n 5000000 GHz
Signal Track       Start Scale       X       Y       Function       Function       Function       Function       Function       Vidth       Function       Function<	Scale/Div 10 dB	Ref Level 15.00 dBm	-40.04 dBm	Swept Span
500       -14.36.46m       Full Span         510       -2       -2         300       -2       -4         450       -2       -4         550       -2       -4         550       -2       -4         550       -2       -4         550       -4       -4         550       -4       -4         550       -4       -4         560       -4       -4         560       -4       -4         560       -4       -4         560       -4       -4         560       -4       -4         560       -4       -4         560       -4       -4         570       -4       -4         5       -4       -4         5       -4       -4         6       -4       -4         7       -4       -4       -4         7       -4       -4       -4       -4         7       -4       -4       -4       -4       -4         1       -4       -4       -4       -4       -4       -4	5.00			Zero Span
250       2       2       30       50	-5.00		DL118.26 dBm	Full Span
300       45.0       1.00000000 GHz         45.0       45.0       500         55.0       500       500         65.0       500       500         65.0       500       600         75.0       500       600         Start 1.00 GHz       #Video BW 300 kHz       Stop 26.50 GHz         #Res BW 100 kHz       Sweep -943 ms (30001 pts)       CF Step 2.55000000 GHz         5 Marker Table       1       f       2.479 85 GHz       1.183 dBm         2       N       1       f       2.479 85 GHz       1.183 dBm         2       N       1       f       2.479 85 GHz       1.183 dBm         3       4       6       6       6       6         1       N       1       f       2.479 85 GHz       1.183 dBm         2       N       1       f       2.479 85 GHz       1.183 dBm         3       4       6       6       6       6         1       0       1       1       1       1       1         2       1       1       1       2.479 85 GHz       1       1       1         3       4       5       6	-25.0		Star	t Freq
55 0       Jan 08, 2025       Jan 08,	-45.0		1.0	
30       AUTO TUNE         Start 1.00 GHz       #Video BW 300 kHz       Stop 26.50 GHz         FRes BW 100 kHz       Sweep ~943 ms (30001 pt)       FStep         5 Marker Table       •       •         Mode Trace Scale       X       Y         Frage Start 1.00 GHz       •       •         1       1       f       2.479 85 GHz       1.183 dBm         2       N       1       f       2.479 85 GHz       1.183 dBm         3       •       •       •       •       •         4       •       •       •       •       •         2       N       1       f       2.479 85 GHz       1.183 dBm       Freq Offset       0 Hz         3       • <td< td=""><td>-55.0</td><td>د. مراجع المراجع المراجع المراجع من المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع</td><td>26.4</td><td>500000000 GHz</td></td<>	-55.0	د. مراجع المراجع المراجع المراجع من المراجع	26.4	500000000 GHz
Start 1.00 GHz       #Video BW 300 kHz       Stop 26.50 GHz       CF Step         #Res BW 100 kHz       Sweep ~943 ms (30001 pts)       CF Step       2.55000000 GHz         5 Marker Table       Mode       Trace       Scale       X       Y       Function       Function Vidth       Function Vidth         1       1       1       2.479 85 GHz       1.183 dBm       Freq Offset       0 Hz       Auto         3       4       4.960 15 GHz       -40.04 dBm       0 Hz       XAxis Scale       Local         4       5       5       5       5       5       5       Signal Track       Signal Track       Signal Track       Signal Track	-75.0			
Mode     Trace     Scale     X     Y     Function     Function     Width     Function     Vidth     Function     Vidth     G     State     Auto       1     N     1     f     2.479     85     GHz     1.183     dBm     Freq     Offset     0     Hz       2     N     1     f     2.479     85     GHz     1.183     dBm     Freq     Offset     0     Hz       3     4     -     -     -     4.0.04     dBm     -     0     Hz     Local       3     4     -	Start 1.00 GHz	#Video BW 300 kHz	Stop 26.50 GHz	AUTOTUNE
Mode     Trace     Scale     X     Y     Function     Function     Function     Main       1     N     1     f     2.479     85     GHz     1.183     dBm       2     N     1     f     2.479     85     GHz     1.183     dBm       3     4     5     6     6     6     6     6     6       3     4     5     6     6     6     6     6     6       3     4     6     6     6     6     6     6     6       3     4     6     6     6     6     6     6     6       4     6     6     7     Jan 08, 2025     6     6     6     6       4:14:38 PD     14:040000000000000000000000000000000000	#Res BW 100 kHz		Sweep ~943 ms (30001 pts) CF S 2.55	Step 50000000 GHz
Mode         Trace         Scale         X         Y         Function         Function         Man           1         N         1         f         2.479 85 GHz         1.183 dBm         Freq Offset         0 Hz           2         N         1         f         4.960 15 GHz         -40.04 dBm         Image: Constraint of the state o				Auto
2       N       1       f       4.960 15 GHz       -40.04 dBm       Freq Unset       0 Hz         3       4       5       6       0 Hz       10 Hz       <	Mode Trace Scal	le X Y Function 2.479 85 GHz 1.183 dBm	Function Width Function Value	Man
4     Image: Constraint of the second s	2 N 1 f	4.960 15 GHz -40.04 dBm	0 H	z Cifiset
	4		XAX	kis Scale
	6			Log
		<b>9</b> Jan 08, 2025	Sian	nal Track
				In Zoom)

 

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### 9.7 RADIATED SPURIOUS EMISSION

### 9.7.1 Applicable Standard

According to FCC Part 15.247(d), 15.205, 15.209 and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02 According to IC RSS-Gen and RSS-247

### 9.7.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part 15.205, Restricted bands							
MHz	MHz	MHz	GHz				
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15				
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46				
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75				
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5				
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2				
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5				
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7				
6.26775-6.26825	123-138	2200-2300	14.47-14.5				
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2				
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4				
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12				
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0				
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8				
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5				
12.57675-12.57725	322-335.4	3600-4400	(2)				
13.36-13.41							

According to FCC Part15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

### 9.7.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

### 9.7.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

For Above 1GHz:

The EUT was placed on a turn table which is 1.5m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

```
Span = wide enough to fully capture the emission being measured
```

RBW = 1 MHz

 $VBW \ge RBW$ 

Sweep = auto



Detector function = peak Trace = max hold For Below 1GHz: The EUT was placed on a turn table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Span = wide enough to fully capture the emission being measured RBW = 100 kHz for  $VBW \ge RBW$ Sweep = auto Detector function = peak Trace = max hold For Below 30MHz: The EUT was placed on a turn table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Span = wide enough to fully capture the emission being measured RBW = 9kHz $VBW \geq RBW$ Sweep = auto Detector function = peak Trace = max hold For Below 150KHz: The EUT was placed on a turn table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Span = wide enough to fully capture the emission being measured RBW = 200Hz $VBW \ge RBW$ Sweep = auto Detector function = peak Trace = max hold Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT,

measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

### 9.7.5 Test Results

Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	22° C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Freq.	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
(MHz)	H/V	PK È	AÝ	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log(Specific distance/ test distance)( dB); Limit line=Specific limits(dBuV) + distance extrapolation factor

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Spurious Emission Above 1GHz (1GHz to 25GHz)

All the antenna(Antenna 1) and modes(GFSK,  $\pi$ /4-DQPSK, 8DPSK) mode have been tested, and the worst(Antenna 1, 8DPSK) result recorded was report as below:

Test mode:	8DP	SK Freque		ency:	cy: Channel 0: 2402MHz		
Freq.	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
(1011 12)	H/V	PK	AV	PK	AV	PK	AV
8914.89	V	57.27	44.09	74.00	54.00	-16.73	-9.91
13143.13	V	57.47	44.63	74.00	54.00	-16.53	-9.37
15318.92	V	56.98	44.17	74.00	54.00	-17.02	-9.83
9491.94	Н	57.02	43.97	74.00	54.00	-16.98	-10.03
10826.05	Н	57.51	44.66	74.00	54.00	-16.49	-9.34
12842.71	Н	57.43	44.49	74.00	54.00	-16.57	-9.51

Test mode: 8DPSK Frequency: Channel 39: 2441MHz

Freq.	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV
9599.55	V	56.54	43.78	74.00	54.00	-17.46	-10.22
10726.38	V	56.59	43.84	74.00	54.00	-17.41	-10.16
15112.22	V	56.79	43.92	74.00	54.00	-17.21	-10.08
10188.47	Н	57.51	44.64	74.00	54.00	-16.49	-9.36
14462.66	Н	57.57	44.68	74.00	54.00	-16.43	-9.32
16291.67	Н	57.62	44.45	74.00	54.00	-16.38	-9.55

Test mode:	8DP	8DPSK		Frequency:		Channel 78: 2480MHz		
Freq.	Ant.Pol.	Emission Lev	vel(dBuV/m)	el(dBuV/m) Limit 3m(		Over(dB)		
(MHz)	H/V	PK	AV	PK	AV	PK	AV	
7082.65	V	56.71	43.89	74.00	54.00	-17.29	-10.11	
13666.11	V	56.87	44.04	74.00	54.00	-17.13	-9.96	
14792.42	V	57.21	44.37	74.00	54.00	-16.79	-9.63	
9459.08	Н	56.81	43.86	74.00	54.00	-17.19	-10.14	
10596.95	Н	57.28	44.37	74.00	54.00	-16.72	-9.63	
16581.46	Н	56.76	44.04	74.00	54.00	-17.24	-9.96	

Note:

(1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant\_F + Cab\_L - Preamp

(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

All the antenna(Antenna 1) and modes(GFSK, π/4-DQPSK, 8DPSK, Hopping) mode have been tested, and the worst(Antenna 1, 8DPSK, Hopping) result recorded was report as below:

Test mode:	8DPSK	Frequency: C		hannel 0: 2402MHz		
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)	
2311.512	Н	44.38	74.00	31.62	54.00	
2387.192	V	43.96	74.00	31.13	54.00	

Test mode:	8DPSK	Frequence	cy: Ch	annel 78: 2480Mł	Ηz
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2497.673	Н	43.88	74.00	31.10	54.00
2495.230	V	44.13	74.00	31.10	54.00

Test mode:	8DPSK	Frequence	су: Но	pping	
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2384.670	Н	44.83	74.00	32.09	54.00
2400.000	Н	45.50	74.00	32.36	54.00
2483.500	Н	47.78	74.00	34.64	54.00
2393.581	V	44.33	74.00	31.41	54.00
2400.000	V	52.15	74.00	38.91	54.00
2483.500	V	43.46	74.00	30.58	54.00

(1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz). Note:

(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant\_F + Cab\_L - Preamp

(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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Spurious Emission below 1GHz (30MHz to 1GHz) 

All the antenna(Antenna 1) and modes(GFSK,  $\pi$ /4-DQPSK, 8DPSK) mode have been tested, and the worst(Antenna 1, 8DPSK) result recorded was report as below:



No. Mk	. Freq.	Reading Level	Ant. Factor	Pre Amp Gain	Cable loss	Measure- ment	Limit	Over		н	Degree	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Detector	cm	deg.	Comment
1	55.2207	38.26	13.45	30.5	0.92	22.13	40.00	-17.87	QP			
2	106.0126	43.21	11.5	30.86	1.12	24.97	43.50	- <mark>18</mark> .53	QP			
3	129.9225	44.37	8.41	30.73	1.3	23.35	43.50	-20.15	QP			
4	287.9904	42.82	13.68	29.89	2.15	28.76	46.00	-17.24	QP			
5	576.6443	39.71	19.49	29.92	3.1	32.38	46.00	-13.62	QP			
6 *	768.7481	40.24	21.07	30.2	3.79	34.90	46.00	-11.10	QP			

\*:Maximum data x:Over limit I:over margin Operator: Ccyf

EMTEK (Dongguan) Co., Ltd.

![](_page_28_Picture_0.jpeg)

![](_page_28_Figure_1.jpeg)

No.	Mk.	Freq.	Reading Level	Ant. Factor	Pre Amp Gain	Cable loss	Measure- ment	Limit	Over		HI	Degree	L.
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Detector	cm	deg.	Comment
1	*	35.1277	46.98	11.54	30.55	0.6	28.57	40.00	-11.43	QP			
2		53.1313	41.69	13.69	30.49	0.86	25.75	40.00	-14.25	QP			
3	1	121.1231	48.54	9.64	30.78	1.23	28.63	43.50	- <mark>14</mark> .87	QP			
4		287.9904	39.11	13.68	29.89	2.15	25.05	46.00	-20.95	QP			
5	ł	480.5276	40.18	17.45	29.81	2.79	30.61	46.00	-15.39	QP			
6		768.7481	38.11	21.07	30.2	3.79	32.77	46.00	-13.23	QP			

\*:Maximum data x:Over limit I:over margin Operator: Ccyf

Remark:

1. Measurement (dBµV/m) = Antenna Factor(dB) - Amp Factor(dB) + Cable Loss(dB) + Reading(dBµV/m)

2. Over (dB) = Measurement (dBµV/m) - Limit (dBµV/m)

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![](_page_29_Picture_0.jpeg)

### 9.8 CONDUCTED EMISSION TEST

#### 9.8.1 **Applicable Standard**

According to FCC Part 15.207 According to IC RSS-Gen 8.8

#### 9.8.2 **Conformance Limit**

Conducted Emission Limit								
Frequency(MHz) Quasi-peak Average								
0.15-0.5	66-56	56-46						
0.5-5.0	56	46						
5.0-30.0 60 50								
NI. C. A. Thur Leave Burger Leave Leave Leave	1							

Note: 1. The lower limit shall apply at the transition frequencies 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 9.8.3 **Test Configuration**

Test according to clause 7.3 conducted emission test setup

### 9.8.4 **Test Procedure**

The EUT was placed on a table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Repeat above procedures until all frequency measured were complete.

#### 9.8.5 **Test Results**

Pass

The AC120V &240V voltage have been tested, and the worst result recorded was report as below:

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![](_page_30_Picture_0.jpeg)

![](_page_30_Figure_1.jpeg)

Site site #1

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1550	42.60	0.00	42.60	65.73	-23.13	QP	
2		0.1550	27.47	0.00	27.47	55.73	-28.26	AVG	
3		0.2750	38.82	0.00	38.82	60.97	-22.15	QP	
4		0.2750	25.53	0.00	25.53	50.97	-25.44	AVG	
5	*	0.5700	40.72	0.00	40.72	56.00	-15.28	QP	
6		0.5700	30.28	0.00	30.28	46.00	-15.72	AVG	
7		0.9800	35.09	0.00	35.09	56.00	-20.91	QP	
8		0.9800	21.21	0.00	21.21	46.00	-24.79	AVG	
9		1.8300	31.12	0.00	31.12	56.00	-24.88	QP	
10		1.8300	18.81	0.00	18.81	46.00	-27.19	AVG	
11		2.6800	31.05	0.00	31.05	56.00	-24.95	QP	
12		<mark>2.6800</mark>	<mark>18.17</mark>	0.00	18.17	<mark>46.0</mark> 0	- <mark>27.</mark> 83	AVG	

\*:Maximum data

x:Over limit I:over margin

Comment: Factor build in receiver.

Operator:

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![](_page_31_Picture_0.jpeg)

![](_page_31_Figure_1.jpeg)

- C		11.4
Sito	outo	++1
JUE	SILE	#* 1
Citte	onco	

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1550	41.96	0.00	41.96	65.73	-23.77	QP	
2		0.1550	28.64	0.00	28.64	55.73	-27.09	AVG	
3		0.4550	37.51	0.00	37.51	56.78	- <mark>19.27</mark>	QP	
4		0.4550	27.96	0.00	27.96	46.78	-18.82	AVG	
5		0.5600	42.90	0.00	42.90	56.00	-13.10	QP	
6	*	0.5600	34.22	0.00	34.22	<u>46.00</u>	- <mark>11.7</mark> 8	AVG	
7		1.0700	34.82	0.00	34.82	56.00	-21.18	QP	
8		1.0700	26.12	0.00	26.12	46.00	-19.88	AVG	
9		1.8200	32.24	0.00	32.24	56.00	-23.76	QP	
10		1.8200	23.18	0.00	23.18	<u>46.00</u>	-22.82	AVG	
11		2.5200	31.35	0.00	31.35	56.00	-24.65	QP	
12		2.5200	22.05	0.00	22.05	<mark>46.00</mark>	-23.95	AVG	

\*:Maximum data

x:Over limit I:over margin Comment: Factor build in receiver.

Operator:

### Remark:

1. Measurement (dBµV) = AMN Factor (dB) + Cable Loss (dB) + Reading (dBµV)

2. Over (dB) = Measurement (dB $\mu$ V) - Limit (dB $\mu$ V)

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![](_page_32_Picture_0.jpeg)

### 9.9 ANTENNA APPLICATION

#### 9.9.1 **Antenna Requirement**

Standard	Requirement
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
FCC 47 CFR Part 15.247 (b)	If transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.
RSS-Gen Section 6.8	The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.
RSS-247 Section 5.4	If the transmitter employs an antenna system that emits multiple directional beams, but does not emit multiple directional beams simultaneously, the total output power conducted to the array or arrays that comprise the device (i.e. the sum of the power supplied to all antennas, antenna elements, staves, etc., and summed across all carriers or frequency channels) shall not exceed the applicable output power limit. However, the total conducted output power shall be reduced by 1 dB below the specified limits for each 3 dB that the directional gain of the antenna/antenna array exceeds 6 dBi. The directional antenna gain shall be computed as the sum of 10 log (number of array elements or staves) plus the directional gain of the element or stave having the highest gain.

#### 9.9.2 Result

PASS.

- Note:  $\checkmark$ Antenna use a permanently attached antenna which is not replaceable.
  - Not using a standard antenna jack or electrical connector for antenna replacement
  - The antenna has to be professionally installed (please provide method of installation)

Please refer to the attached document Internal Photos to show the antenna connector.

![](_page_33_Picture_0.jpeg)

Frequency(MHz)	Ant_F(dB)	Cab_L(dB)	Preamp(dB)	Correct Factor(dB)
0.009	20.6	0.03	l l	20.63
0.15	20.7	0.1	\	20.8
1	20.9	0.15	/	21.05
10	20.1	0.28	\	20.38
30	18.8	0.45	\	19.25
30	11.7	0.62	27.9	-15.58
100	12.5	1.02	27.8	-14.28
300	12.9	1.91	27.5	-12.69
600	19.2	2.92	27	-4.88
800	21.1	3.54	26.6	-1.96
1000	22.3	4.17	26.2	0.27
1000	25.6	1.76	41.4	-14.04
3000	28.9	3.27	43.2	-11.03
5000	31.1	4.2	44.6	-9.3
8000	36.2	5.95	44.7	-2.55
10000	38.4	6.3	43.9	0.8
12000	38.5	7.14	42.3	3.34
15000	40.2	8.15	41.4	6.95
18000	45.4	9.02	41.3	13.12
18000	37.9	1.81	47.9	-8.19
21000	37.9	1.95	48.7	-8.85
25000	39.3	2.01	42.8	-1.49
28000	39.6	2.16	46.0	-4.24
31000	41.2	2.24	44.5	-1.06
34000	41.5	2.29	46.6	-2.81
37000	43.8	2.30	46.4	-0.3
40000	43.2	2.50	42.2	3.5

### Detail of factor for radiated emission

\*\*\* End of Report \*\*\*

 

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![](_page_34_Picture_0.jpeg)

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