

TEST REPORT

Test Report No. : UL-RPT-RP13337971-1016A V3.0

Customer	:	Raspberry Pi (Trading) Ltd
Model No. / PMN	:	Raspberry Pi RM0
HVIN	:	Raspberry Pi RM0
FCC ID	:	2ABCB-RPIRM0
ISED Certification No.	:	IC: 20953-RPIRM0
Technology	:	Bluetooth – BDR & EDR
Test Standard(s)	:	FCC Parts 15.247(a)(1), 15.247(a)(1)(iii), 15.247(b)(1) & 15.247(d) Innovation, Science and Economic Development Canada RSS-247 Issue 2 Sections 5.1(a), 5.1(b), 5.1(d), 5.4(b) & 5.5 RSS-Gen Issue 5 Sections 6.7 & 6.12
Test Laboratory	:	UL International (UK) Ltd, Basingstoke, Hampshire, RG24 8AH, United Kingdom

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- 2. The results in this report apply only to the sample(s) tested.
- 3. The sample tested is in compliance with the above standard(s).
- 4. The test results in this report are traceable to the national or international standards.
- 5. Version 3.0 supersedes all previous versions.

Date of Issue:

05 November 2020

Checked by:

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UL International (UK) Ltd

Customer Information

Company Name:	Raspberry Pi (Trading) Ltd
Address:	Maurice Wilkes Building Cowley Road Cambridge CB4 0DS United Kingdom

Report Revision History

Version Number	Issue Date	Revision Details	Revised By
1.0	20/10/2020	Initial Version	Sarah Williams
2.0	30/10/2020	Lower Band Edge results added	Ben Mercer
3.0	05/11/2020	PMN/HVIN updated	Sarah Williams

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1. Attestation of Test Results

1.1. Description of EUT

The equipment under test was a *Bluetooth* and WiFi radio module.

1.2. General Information

Specification Reference:	47CFR15.247	
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications): Part 15 Subpart C (Intentional Radiators) - Section 15.247	
Specification Reference:	47CFR15.209	
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications): Part 15 Subpart C (Intentional Radiators) - Section 15.209	
Specification Reference:	RSS-Gen Issue 5 March 2019	
Specification Title:	General Requirements for Compliance of Radio Apparatus	
Specification Reference:	RSS-247 Issue 2 February 2017	
Specification Title:	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices	
Site Registration:	FCC: 621311, ISEDC: 20903	
Location of Testing:	Unit 3 Horizon, Wade Road, Kingsland Business Park, Basingstoke, Hampshire, RG24 8AH, United Kingdom	
Test Dates:	28 July 2020 to 28 October 2020	

1.3. Summary of Test Results

FCC ReferenceISED Canada(47CFR)Reference		Measurement	Result	
N/A	RSS-Gen 6.7	99% Emission Bandwidth	0	
Part 15.247(a)(1)	RSS-Gen 6.7 / RSS-247 5.1(a)	Transmitter 20 dB Bandwidth	Ø	
Part 15.247(a)(1)	RSS-247 5.1(b)	Transmitter Carrier Frequency Separation	0	
Part 15.247(a)(1)(iii)	RSS-247 5.1(d)	Transmitter Number of Hopping Frequencies and Average Time of Occupancy	Ø	
Part 15.247(b)(1)	RSS-Gen 6.12 / RSS-247 5.4(b)	Transmitter Maximum Peak Output Power	Ø	
Part 15.247(d) & 15.209(a)	RSS-Gen 6.13 / RSS-247 5.5	Transmitter Band Edge conducted Emissions	Ø	
Key to Results		•	·	
🧭 = Complied 🛛 😂 =	Did not comply			

1.4. Deviations from the Test Specification

For the measurements contained within this test report, there were no deviations from, additions to, or exclusions from the test specification identified above.

2. Summary of Testing

2.1. Facilities and Accreditation

The test site and measurement facilities used to collect data are located at Unit 3 Horizon, Wade Road, Kingsland Business Park, Basingstoke, Hampshire, RG24 8AH, United Kingdom.

UL International (UK) Ltd is accredited by UKAS. The tests reported herein have been performed in accordance with its terms of accreditation.

Reference:	ANSI C63.10-2013
Title:	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Reference:	KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019
Title:	Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under Section 15.247 of the FCC Rules

2.3. Calibration and Uncertainty

Measuring Instrument Calibration

In accordance with UKAS requirements all the measurement equipment is on a calibration schedule. All equipment was within the calibration period on the date of testing.

Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value measured (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
99% Emission Bandwidth	2.4 GHz to 2.4835 GHz	95%	±3.92 %
20 dB Bandwidth	2.4 GHz to 2.4835 GHz	95%	±4.59 %
Carrier Frequency Separation	2.4 GHz to 2.4835 GHz	95%	±4.59 %
Average Time of Occupancy	2.4 GHz to 2.4835 GHz	95%	±3.53 ns
Conducted Maximum Peak Output Power	2.4 GHz to 2.4835 GHz	95%	±1.13 dB
Conducted Band Edge Emissions	2.4 GHz to 2.4835 GHz	95%	±2.62 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

2.4. Test and Measurement Equipment

Test Equipment Used for Transmitter Conducted Tests

Asset No.	Instrument	Manufacturer	Туре No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M2001	Thermohygrometer	Testo	608-H1	45041824	05 Jan 2021	12
M1999	RF Power Sensor	Dare Instruments	RPR3006W	15I00041SN 079	28 May 2021	12
A2525	Attenuator	AtlanTecRF	AN18W5-10	832827	Calibrated before use	-
M1835	Signal Analyser	Rohde & Schwarz	FSV30	103050	14 Apr 2021	12
G0614	Signal Generator	Rohde & Schwarz	SMB100A	177687	19 May 2023	36
M1886	Test Receiver	Rohde & Schwarz	ESU26	1000554	15 May 2021	12
G0628	Vector Signal Generator	Rohde & Schwarz	SMBV100A	261847	08 Oct 2023	36
A2527	Attenuator	AltanTechRF	AN18W5-20	832828#2	Calibrated before use	-

3. Equipment Under Test (EUT)

3.1. Identification of Equipment Under Test (EUT)

Brand Name:	Raspberry Pi
Model Name or Number / PMN:	Raspberry Pi RM0
Test Sample Serial Number:	3185953 (Conducted sample)
Hardware Version:	V1.0
Software Version:	V1.0
FCC ID:	2ABCB-RPIRM0
ISED Canada Certification Number:	IC: 20953-RPIRM0

3.2. Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

3.3. Additional Information Related to Testing

Tested Technology:	Bluetooth			
Power Supply Requirement:	Nominal	5.0 VDC		
Type of Unit:	Transceiver			
Channel Spacing:	1 MHz			
Mode:	Basic Rate Enhanced Data Rate			
Modulation:	GFSK	π/4-DQPSK	8DPSK	
Packet Type: (Maximum Payload)	DH5	2DH5	3DH5	
Data Rate (Mbps):	1	2	3	
Maximum Conducted Output Power:	6.5 dBm			
Transmit Frequency Range:	2402 MHz to 2480 MHz			
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)	
	Bottom	0	2402	
	Middle	39	2441	
	Тор	78	2480	

3.4. Description of Available Antennas

The table below lists the internal niche antenna and the external antenna available.

Manufacturer	Туре	Frequency Range (MHz)	Antenna Gain (dBi)
ProAnt	Internal	2400 to 2480	3.5
Raspberry Pi	External	2400 to 2480	2.0

3.5. Description of Test Setup

Support Equipment

The following support equipment was used to exercise the EUT during testing:

Description:	Pi4 board used as test jig
Brand Name:	Raspberry Pi4
Model Name or Number:	Pi4
Serial Number:	1000000ae5754eo

Description:	Micro SD Card with OS image
Brand Name:	SanDisk
Model Name or Number:	16 GB card
Serial Number:	Not marked or stated

Description:	USB Mouse
Brand Name:	Microsoft
Model Name or Number:	1113
Serial Number:	Not marked or stated

Description:	USB Keyboard
Brand Name:	Dell
Model Name or Number:	KB212-B
Serial Number:	Not marked or stated

Description:	Power Supply. 100-230 VAC Input / 5 VDC Output
Brand Name:	Raspberry Pi4
Model Name or Number:	KSA-15E-051300HK
Serial Number:	Not marked or stated

Description:	USB Mouse
Brand Name:	Raspberry Pi
Model Name or Number:	RPI-MOUSE
Serial Number:	Not marked or stated

Description:	USB Keyboard
Brand Name:	HP
Model Name or Number:	KU-0316
Serial Number:	Not marked or stated

Support Equipment (continued)

Description:	Monitor
Brand Name:	ASUS
Model Name or Number:	PA238
Serial Number:	D9LMTF114809

Operating Modes

The EUT was tested in the following operating mode(s):

- Continuously transmitting at maximum power on bottom, middle and top channels in BDR (DH5 packets) or EDR (2DH5 or 3DH5 packets) as required.
- Continuously transmitting at maximum power in hopping mode on all channels in BDR (DH5 packets) or EDR (2DH5 or 3DH5 packets) as required.

Configuration and Peripherals

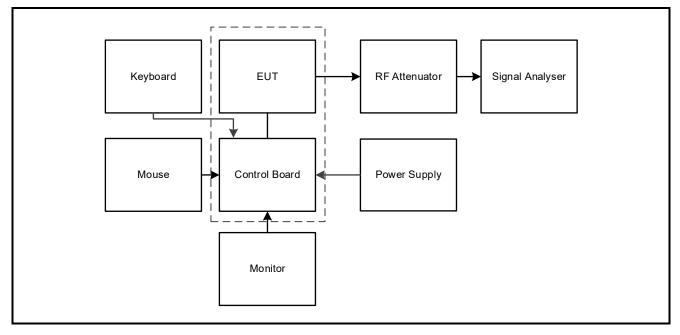
The EUT was tested in the following configuration(s):

- The Pi4 test jig was used to run *Bluetooth* test commands on the EUT. The Pi4 test jig was used to enable continuous transmission and to select the test channels and packet types as required.
- The EUT was powered via the Pi4 test jig which was powered from an AC/DC switch mode power supply.

Test Setup Diagrams

Conducted Tests:

Test Setup for Transmitter Conducted Tests



4. Antenna Port Test Results

4.1. Transmitter 99% Emission Bandwidth

Test Summary:

Test Engineers:	Matthew Botfield & Jose Bayona	Test Date:	28 July 2020
Test Sample Serial Number:	3185953		

FCC Reference:	N/A
ISED Canada Reference:	RSS-Gen 6.7
Test Method Used:	RSS-Gen 6.7

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	52

Note(s):

- 1. The signal analyser resolution bandwidth was set to 30 kHz and video bandwidth 100 kHz. A peak detector was used, sweep time was set to auto and the trace mode was Max Hold. The span was set to 5 MHz. The signal analyser occupied bandwidth function measured the 99% emission bandwidth.
- 2. The signal analyser was connected to the RF port on the EUT using suitable attenuation and RF cable.

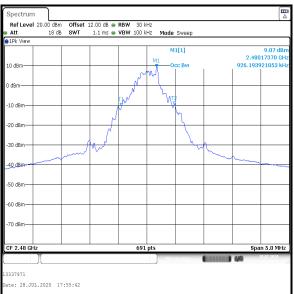
Transmitter 99% Emission Bandwidth (continued)

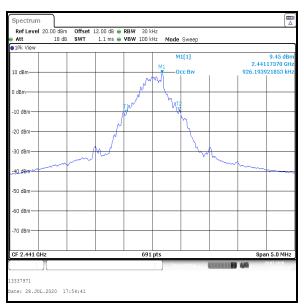
Results: DH5

Channel	99% Emission Bandwidth (kHz)
Bottom	926.194
Middle	926.194
Тор	926.194



Bottom Channel





Middle Channel

Transmitter 99% Emission Bandwidth (continued)

Results: 2DH5

Channel	99% Emission Bandwidth (kHz)
Bottom	1215.630
Middle	1215.630
Тор	1222.865



Bottom Channel





Middle Channel

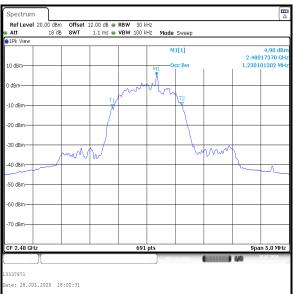
Transmitter 99% Emission Bandwidth (continued)

Results: 3DH5

Channel	99% Emission Bandwidth (kHz)
Bottom	1222.865
Middle	1215.630
Тор	1230.101



Bottom Channel





Middle Channel

4.2. Transmitter 20 dB Bandwidth

Test Summary:

Test Engineers:	Matthew Botfield & Jose Bayona	Test Date:	29 July 2020
Test Sample Serial Number:	3185953		

FCC Reference:	Part 15.247(a)(1)
ISED Canada Reference:	RSS-Gen 6.7 / RSS-247 5.1(a)
Test Method Used:	ANSI C63.10 Section 6.9.2

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	58

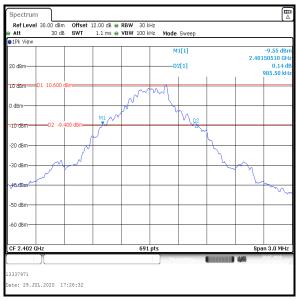
Note(s):

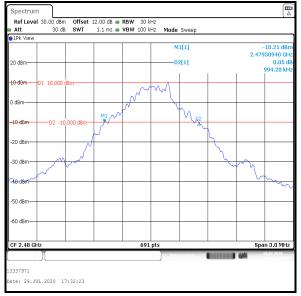
- 1. The signal analyser resolution bandwidth was set to 30 kHz and video bandwidth 100 kHz. A Peak detector was used, sweep time was set to auto and the trace mode was Max Hold. The span was set to 3 MHz. Normal and delta markers were placed 20 dB down from the peak of the carrier.
- 2. The signal analyser was connected to the RF port on the EUT using suitable attenuation and RF cable.

Transmitter 20 dB Bandwidth (continued)

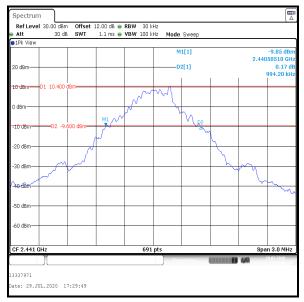
Results DH5:

Channel 20 dB Bandwidth (kHz)	
Bottom	985.500
Middle	994.200
Тор	994.200





Top Channel

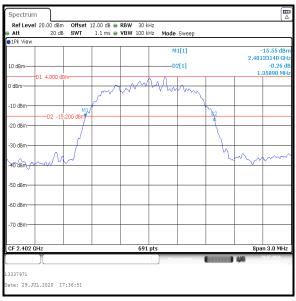


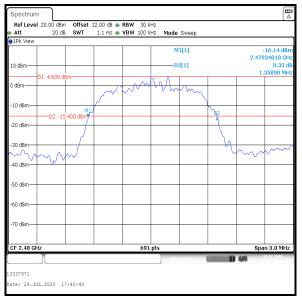
Middle Channel

Transmitter 20 dB Bandwidth (continued)

Results 2DH5:

Channel	20 dB Bandwidth (kHz)
Bottom	1358.900
Middle	1358.900
Тор	1358.900





Top Channel



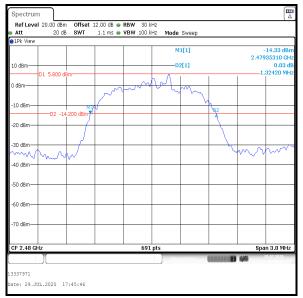
Middle Channel

Transmitter 20 dB Bandwidth (continued)

Results 3DH5:

Channel	20 dB Bandwidth (kHz)
Bottom	1328.500
Middle	1328.500
Тор	1324.200





Top Channel



Middle Channel

4.3. Transmitter Carrier Frequency Separation

Test Summary:

Test Engineers:	Matthew Botfield & Jose Bayona	Test Date:	29 July 2020
Test Sample Serial Number:	3185953		

FCC Reference:	Part 15.247(a)(1)
ISED Canada Reference:	RSS-247 5.1(b)
Test Method Used:	ANSI C63.10 Section 7.8.2

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	58

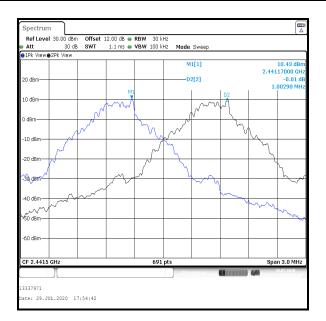
Note(s):

- 1. The 20 dB bandwidth measured for the middle channel operating at 2441 MHz was used to calculate the limit.
- The signal analyser resolution bandwidth was set to 30 kHz and video bandwidth 100 kHz. A peak detector was used, sweep time was set to auto and trace mode was Max Hold. The span was set to 3 MHz. A marker was placed at the centre of one signal and then a delta marker was placed in the same place on the second signal.
- 3. The signal analyser was connected to the RF port on the EUT using suitable attenuation and RF cable.

Transmitter Carrier Frequency Separation (continued)

Results: DH5

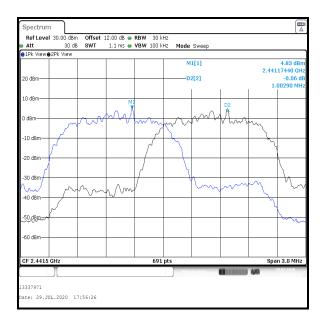
Carrier Frequency	Limit (²/₃ of 20 dB BW)	Margin	Result
Separation (kHz)	(kHz)	(kHz)	
1002.900	662.800	340.100	Complied



Transmitter Carrier Frequency Separation (continued)

Results: 2DH5

Carrier Frequency	Limit (²/₃ of 20 dB BW)	Margin	Result
Separation (kHz)	(kHz)	(kHz)	
1002.900	905.933	96.967	Complied



Transmitter Carrier Frequency Separation (continued)

Results: 3DH5

Carrier Frequency	Limit (²/₃ of 20 dB BW)	Margin	Result
Separation (kHz)	(kHz)	(kHz)	
1002.900	885.667	117.233	Complied

Att 30 dB S'	WT 1.1 ms 🖷 '	VBW 100 ki	Hz Mode	Sweep			
IPK VIEW ZPK VIEW			м	1[1]			5.90 dBr
						2.441	17000 GH
20 dBm			D;	2[2]		1.	0.07 d 00290 MH
10 dBm							
TO UDIN	X				D2		
) dBm	MAN	- 00		m	Л		
~~~	~ .	$\sim$	V. M.		~~/**	$\sim$	
-10 dBm			my_			h	
/ I		/				)	
-20 dBm		1					
-30 dBm		/					
40 dBm		/			ww	~	5
40 dBm							
50-dBp							horas.
-60 dBm							
CF 2.4415 GHz		691	pts			Spa	n 3.0 MHz
Y			Mea	suring		449	9.07.2020

VERSION NO. 3.0

# 4.4. Transmitter Number of Hopping Frequencies and Average Time of Occupancy Test Summary:

Test Engineers:	Matthew Botfield & Jose Bayona	Test Date:	29 July 2020
Test Sample Serial Number:	3185953		

FCC Reference:	Part 15.247(a)(1)(iii)
ISED Canada Reference:	RSS-247 5.1(d)
Test Method Used:	ANSI C63.10 Sections 7.8.3 & 7.8.4

#### **Environmental Conditions:**

Temperature (°C):	23
Relative Humidity (%):	58

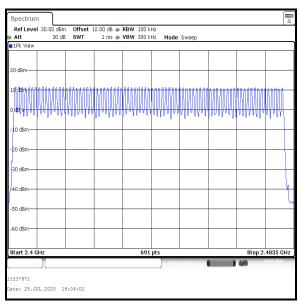
#### Note(s):

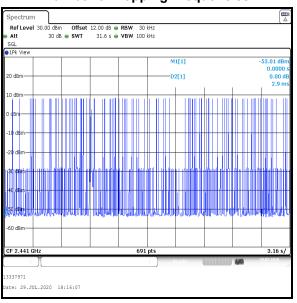
- 1. Tests were performed to identify the average time of occupancy in number of channels (79) x 0.4 seconds. The calculated period is 31.6 seconds.
- 2. The signal analyser was set up for the Number of Hopping Frequencies measurement as follows: the resolution bandwidth was set to 100 kHz and video bandwidth of 300 kHz. A peak detector was used, sweep time was set to auto and trace mode was Max Hold. The span was set to 83.5 MHz.
- 3. The signal analyser was set up for the Emission Width measurement as follows: the resolution bandwidth was set to 30 kHz and video bandwidth of 100 kHz. A peak detector was used and sweep time was set to auto with a span of zero Hz. The signal analyser was set to trigger at 1 ms, with a marker placed at the start of the emission and a delta marked place at the end of the emission. The emission width is recorded in the table below
- 4. The signal analyser was set up for the Number of Hopping Frequencies in 32 seconds measurement as follows: the resolution bandwidth was set to 30 kHz and video bandwidth of 100 kHz. A peak detector was used and sweep time was set to 31.6 seconds. The EUT was set to transmit in a hopping frequency mode with zero span. The total number of hopping frequencies were recorded in the table below.
- 5. The signal analyser was connected to the RF port on the EUT using suitable attenuation and RF cable.

# Transmitter Number of Hopping Frequencies and Average Time of Occupancy (continued)

<b>Results:</b>	

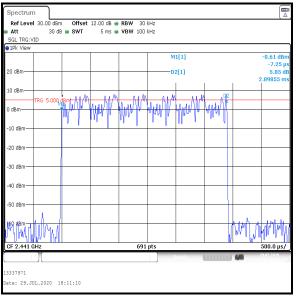
Emission Width (μs)	Number of Hops in 31.6 Seconds	Average Time of Occupancy (s)	Limit (s)	Margin (s)	Result
2898.550	100	0.290	0.4	0.110	Complied





#### **Number of Hopping Frequencies**

Number of Hopping Frequencies in 32 s



**Emission Width** 

#### 4.5. Transmitter Maximum Peak Output Power

#### **Test Summary:**

Test Engineer:	Matthew Botfield	Test Date:	07 September 2020
Test Sample Serial Number:	3185953		

FCC Reference:	Part 15.247(b)(1)
ISED Canada Reference:	RSS-Gen 6.12 / RSS-247 5.4(b)
Test Method Used:	ANSI C63.10 Section 7.8.5

#### **Environmental Conditions:**

Temperature (°C):	22
Relative Humidity (%):	56

#### Note(s):

- 1. The signal analyser resolution bandwidth was set to 2 MHz (>20 dB bandwidth) and video bandwidth of 10 MHz. A peak detector was used, sweep time was set to auto and trace mode was Max Hold. The span was set to 5 MHz (approximately five times the 20 dB bandwidth). A marker was placed at the peak of the signal and the results recorded in the tables below.
- 2. The highest declared antenna gain was added to the conducted peak power to obtain the EIRP.
- The signal analyser was connected to the RF port on the EUT using suitable attenuation and RF cable. An RF offset level was entered on the signal analyser to compensate for the loss of the attenuator and RF cable.

# Transmitter Maximum Peak Output Power (continued)

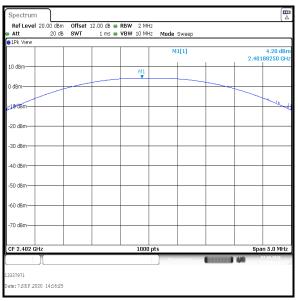
# Results: DH5

Channel	Conducted Peak Power (dBm)	Conducted Peak Power Limit (dBm)	Margin (dB)	Result
Bottom	4.2	30.0	25.8	Complied
Middle	4.8	30.0	25.2	Complied
Тор	4.3	30.0	25.7	Complied

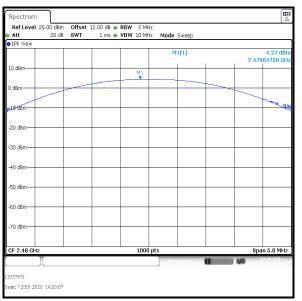
Channel	Conducted Peak Power (dBm)	Declared Antenna Gain (dBi)	EIRP (dBm)	De Facto EIRP Limit (dBm)	Margin (dB)	Result
Bottom	4.2	3.5	7.7	36.0	28.3	Complied
Middle	4.8	3.5	8.3	36.0	27.7	Complied
Тор	4.3	3.5	7.8	36.0	28.2	Complied

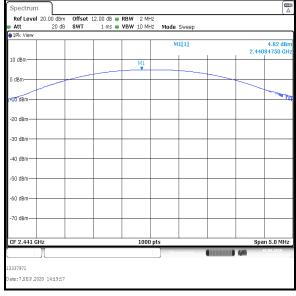
# Transmitter Maximum Peak Output Power (continued)

### Results: DH5



#### **Bottom Channel**





Middle Channel

# Transmitter Maximum Peak Output Power (continued)

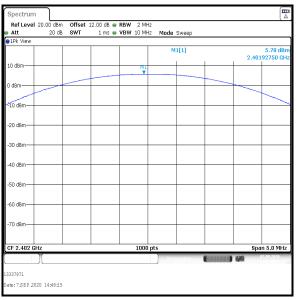
# Results: 2DH5

Channel	Conducted Peak Power (dBm)	Conducted Peak Power Limit (dBm)	Margin (dB)	Result
Bottom	5.8	21.0	15.2	Complied
Middle	5.9	21.0	15.1	Complied
Тор	5.7	21.0	15.3	Complied

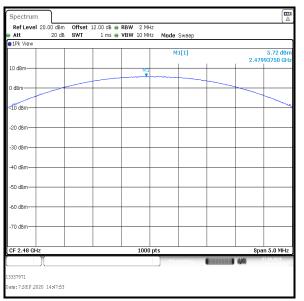
Channel	Conducted Peak Power (dBm)	Declared Antenna Gain (dBi)	EIRP (dBm)	De Facto EIRP Limit (dBm)	Margin (dB)	Result
Bottom	5.8	3.5	9.3	27.0	17.7	Complied
Middle	5.9	3.5	9.4	27.0	17.6	Complied
Тор	5.7	3.5	9.2	27.0	17.8	Complied

# Transmitter Maximum Peak Output Power (continued)

### Results: 2DH5



#### **Bottom Channel**





Middle Channel

# Transmitter Maximum Peak Output Power (continued)

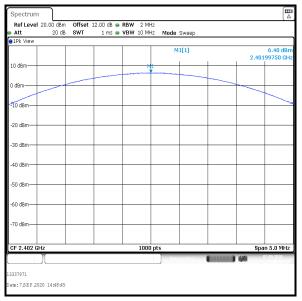
# Results: 3DH5

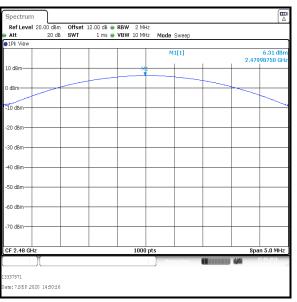
Channel	Conducted Peak Power (dBm)	Conducted Peak Power Limit (dBm)	Margin (dB)	Result
Bottom	6.4	21.0	14.6	Complied
Middle	6.5	21.0	14.5	Complied
Тор	6.3	21.0	14.7	Complied

Channel	Conducted Peak Power (dBm)	Declared Antenna Gain (dBi)	EIRP (dBm)	De Facto EIRP Limit (dBm)	Margin (dB)	Result
Bottom	6.4	3.5	9.9	27.0	17.1	Complied
Middle	6.5	3.5	10.0	27.0	17.0	Complied
Тор	6.3	3.5	9.8	27.0	17.2	Complied

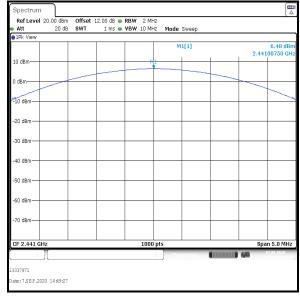
# Transmitter Maximum Peak Output Power (continued)

# Results: 3DH5





Top Channel



Middle Channel

# 4.6. Transmitter Band Edge Conducted Emissions

#### Test Summary:

Test Engineer:	Matthew Botfield	Test Date:	28 October 2020
Test Sample Serial Number:	3185953		

FCC Reference:	Part 15.247(d)
ISED Canada Reference:	RSS-Gen 6.13, 8.9 & 8.10 / RSS-247 5.5
Test Method Used:	KDB 558074 Section 8.7 referencing ANSI C63.10 Section 11.11, 11.12 & 11.13

#### **Environmental Conditions:**

Temperature (°C):	21
Relative Humidity (%):	48

#### Note(s):

- 1. The EUT was set to transmit on the bottom channel when performing measurements at the lower band edge.
- 2. Upper band edge and lower restricted band results are contained within test report R13337971-E7 / E8.
- 3. As the band edges fall within non-restricted bands, only peak measurements are required. In accordance with FCC KDB 558074 Section 11.1, the test method in Section 11.3 was followed: the test receiver resolution bandwidth was set to 100 kHz and video bandwidth 300 kHz. A peak detector was used, sweep time was set to auto and trace mode was Max Hold. The test receiver was left to sweep for a sufficient length of time in order to maximise the carrier level and out-of-band emissions. A marker and corresponding reference level line were placed on the peak of the carrier. As the maximum peak conducted output power was measured using a peak detector in accordance with FCC KDB 558074 Section 9.1.1 an out-of-band limit line was placed 20 dB below the peak level (FCC KDB 558074 Section 11.1(a)). A marker was placed on the band edge spot frequencies and a second marker placed on the highest emission level in the adjacent non-restricted band of operation (where a higher level emission was present). Marker frequencies and levels were recorded.
- 4. The -20 dBc limit is incorrectly displayed on the 3DH5 static plot. The correct limit is stated in the result table.

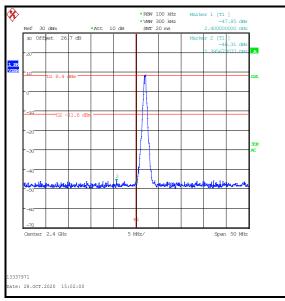
# Transmitter Band Edge Conducted Emissions (continued)

#### **Results: Static Mode / DH5**

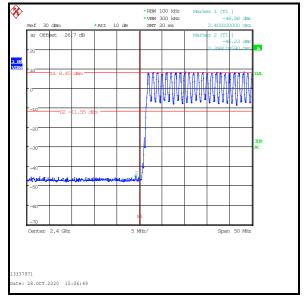
Frequency (MHz)	Level (dBm)	-20 dBc Limit (dBm)	Margin (dB)	Result
2395.673	-46.3	-11.6	34.7	Complied
2400.000	-47.9	-11.6	36.3	Complied

### **Results: Hopping Mode / DH5**

Frequency (MHz)	Level (dBm)	-20 dBc Limit (dBm)	Margin (dB)	Result
2399.119	-46.2	-11.6	34.6	Complied
2400.000	-46.9	-11.6	35.3	Complied



Lower Band Edge / Bottom Channel / Static



Lower Band Edge / Bottom Channel / Hopping

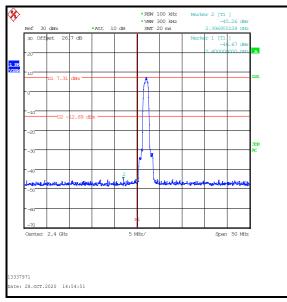
# Transmitter Band Edge Conducted Emissions (continued)

#### Results: Static Mode / 2DH5

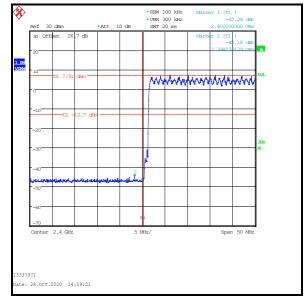
Frequency (MHz)	Level (dBm)	-20 dBc Limit (dBm)	Margin (dB)	Result
2396.955	-45.3	-12.7	32.6	Complied
2400.000	-46.7	-12.7	34.0	Complied

#### Results: Hopping Mode / 2DH5

Frequency (MHz)	Level (dBm)	-20 dBc Limit (dBm)	Margin (dB)	Result
2398.237	-45.2	-12.7	32.5	Complied
2400.000	-47.2	-12.7	34.5	Complied



Lower Band Edge / Bottom Channel / Static



Lower Band Edge / Bottom Channel / Hopping

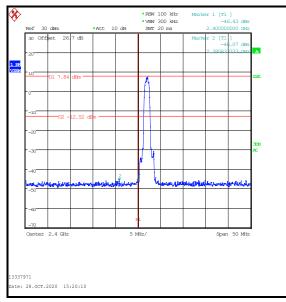
# Transmitter Band Edge Conducted Emissions (continued)

#### Results: Static Mode / 3DH5

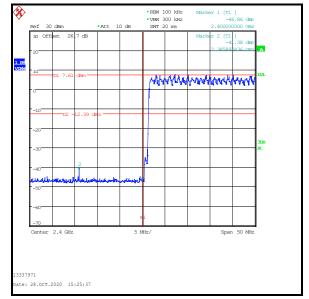
Frequency (MHz)	Level (dBm)	-20 dBc Limit (dBm)	Margin (dB)	Result
2395.833	-46.1	-12.2	33.9	Complied
2400.000	-46.4	-12.2	34.2	Complied

### Results: Hopping Mode / 3DH5

Frequency (MHz)	Level (dBm)	-20 dBc Limit (dBm)	Margin (dB)	Result
2385.897	-41.4	-12.4	29.0	Complied
2400.000	-46.9	-12.4	34.5	Complied



Lower Band Edge / Bottom Channel / Static



Lower Band Edge / Bottom Channel / Hopping

# --- END OF REPORT ---