



TEST REPORT

Test Report No. : UL-RPT-RP16171218JD02E

Applicant* : Apple Inc.

Model No. / HVIN* : A3534

FCC ID* : BCGA3534 **IC*** : 579C-A3534

Technology : *Bluetooth* – BR & EDR

Test Standard(s) : FCC Parts 15.35(c), 15.209(a) & 15.247
Innovation, Science and Economic Development Canada
RSS-247 Issue 4 July 2025
RSS-Gen Issue 5 February 2021

Test Laboratory : UL International (UK) Ltd, Basingstoke, Hampshire, RG24 8AH,
United Kingdom

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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. All information marked with (*) was provided by the Applicant or Authorised representative
6. Version 2.0 supersedes all previous versions.

Date of Issue: 10 August 2026

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Applicant Information

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Report Revision History

Version Number	Issue Date	Revision Details	Revised By
1.0	09/07/2026	Initial Version	Sarah Williams
2.0	10/08/2026	Address TCB feedback	Sarah Williams

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1 Attestation of Test Results

1.1 Description of EUT

The equipment under test (EUT) was a desktop computer.*

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-247 Issue 4 July 2025
Specification Title:	Digital Transmission Systems, Frequency Hopping Systems and Licence-Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands
Specification Reference:	RSS-Gen Issue 5 February 2021
Specification Title:	General Requirements for Compliance of Radio Apparatus
Site Registration:	FCC: 685609, ISEDC: 20903
FCC Lab. Designation No.:	UK2011
ISEDC CABID:	UK0001
Location of Testing:	Units 3 & 4 Horizon, Wade Road, Kingsland Business Park, Basingstoke, Hampshire, RG24 8AH, United Kingdom
Test Dates:	13 April 2026 to 15 June 2026

1.3 Summary of Test Results

FCC Clause (47CFR)	ISED Clause	Transmitter Measurement	Result
Part 15.35(c)	RSS-Gen 8.2	Duty Cycle	Note 1
N/A	RSS-Gen 6.7	99% Occupied Bandwidth	Note 1
Part 15.247(a)(1)	RSS-Gen 6.7 / RSS-247 6.2.1(a)	20 dB Bandwidth	Complied
Part 15.247(a)(1)	RSS-247 6.2.3.1(a)	Carrier Frequency Separation	Complied
Part 15.247(a)(1)(iii)	RSS-247 6.2.3.1(b)	Number of Hopping Frequencies and Average Time of Occupancy	Complied
Part 15.247(b)(1)	RSS-Gen 6.12 / RSS-247 6.2.3.2	Maximum Peak Output Power	Complied
Part 15.247(d) & 15.209(a)	RSS-247 6.6 / RSS-Gen 6.13 & 8.9	Radiated Emissions	Complied
Part 15.247(d) & 15.209(a)	RSS-247 6.6 / RSS-Gen 6.13 & 8.10	Band Edge Radiated Emissions	Complied

Note(s):

1. Reporting purposes only.

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 Units 3 & 4 Horizon, Wade Road, Kingsland Business Park, Basingstoke, Hampshire, RG24 8AH, United Kingdom. The following table identifies which facilities were utilised for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

Site 1	-
Site 17	-
Site 32	X
Site 33	X

UL International (UK) Ltd is accredited by the United Kingdom Accreditation Service (UKAS). UKAS is one of the signatories to the International Laboratory Accreditation Co-operation (ILAC) Arrangement for the mutual recognition of test reports. The tests reported herein have been performed in accordance with its terms of accreditation.

2.2 Methods and Procedures

Reference:	ANSI C63.10-2020
Title:	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Reference:	#ANSI C63.10-2020/Cor1-2023
Title:	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices – Corrigendum 1
Reference:	#ANSI C63.10-2020+C63.10a-2024
Title:	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices – Amendment 1
Reference:	#ANSI C63.10-2020+Errata to C63.10a-2024
Title:	Errata to American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices – Amendment 1

#The use of ANSI C63.10-2020/Cor1-2023 and C63.10a-2024 does not deviate from the testing procedures of ANSI C63.10-2020

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 & Decision Rule

Overview

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 of the measurand (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.

Decision Rule

Measurement system instrumentation shall be used with an accuracy specification meeting the accuracy specification limits according to IEC/IECEE OD-5014.

As applicable, unless specified otherwise in this quotation, the compliance "Decision Rule" is based on Simple Acceptance. If the measured value is on the limit, the result is defined as a pass. For further information regarding risk assessment refer to ILAC G8:09/2019.

Measurement Uncertainty

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
Duty Cycle	2.4 GHz to 2.4835 GHz	95%	±1.14 %
99% Occupied Bandwidth	2.4 GHz to 2.4835 GHz	95%	±2.41 %
20 dB Bandwidth	2.4 GHz to 2.4835 GHz	95%	±3.27 %
Carrier Frequency Separation	2.4 GHz to 2.4835 GHz	95%	±3.27 %
Average Time of Occupancy	2.4 GHz to 2.4835 GHz	95%	±3.21 µs
Conducted Maximum Peak Output Power	2.4 GHz to 2.4835 GHz	95%	±1.25 dB
Radiated Spurious Emissions	30 MHz to 1 GHz	95%	±4.66 dB
Radiated Spurious Emissions	1 GHz to 26 GHz	95%	±5.06 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 Sample Calculation

Where relevant, the following calculations were used:

Radiated Emissions

- The recorded emission level was calculated from the level indicated by the measuring receiver, adjusted by a transducer factor (TDF in dB), using the formula:

$$\text{TDF (dB)} = C_{\text{Att}} (\text{dB}) + \text{AF (dB/m)} - P_{\text{Gain}} (\text{dB}) + D_{\text{Cor}} (\text{dB})$$

Where:

C_{Att} : conducted path attenuation (cables + attenuators)

AF: antenna factor

P_{Gain} : external preamplifier gain

D_{Cor} : distance correction factor (where applicable)

Directional Antenna Gain Calculations for Beamforming

For 2Tx Beamforming modes, in accordance with ANSI C63.10 Section 14.6.3.2.4a), directional gain was calculated as:

$$\text{Directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{G20/20})^2 / N_{\text{ANT}}] = \text{dBi}$$

2.5 Test and Measurement Equipment

Test Equipment Used for Conducted Tests

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M2042	Thermohygrometer	Testo	608-H1	45124926	18 Dec 2026	12
M231909	Signal Analyser	Keysight	N9020B	MY63430168	01 Oct 2026	12
A237327	Attenuator	Pasternack	PE7013-10	#18	Calibrated before use	-
A237328	Attenuator	Pasternack	PE7013-10	#19	Calibrated before use	-
A237329	Attenuator	Pasternack	PE7013-10	#20	Calibrated before use	-
M215600	Power Sensor	Boonton	RTP5008	11837	15 Sep 2026	12
M225503	Power Sensor	Boonton	RTP5008	12324	24 Mar 2027	12
M216297	Power Sensor	Boonton	RTP5008	11827	27 Mar 2027	12
A231993	Switching Unit	Mini-Circuits	ZT-400	12211020014	Calibrated before use	-
M241601	Network Analyser	Keysight	P5007B	MY61100200	02 Oct 2026	12

Test Measurement Software/Firmware Used for Conducted Tests

Name	Version	Release Date
Phoenix Core	5.0.17	27 April 2026

Test and Measurement Equipment (continued)**Test Equipment Used for Radiated Emissions Tests**

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M226553	Thermohygrometer	Testo	608-H1	83800731	17 Dec 2026	12
K226202	3m RSE Chamber	Albatross Projects	N/A	N/A	07 Jul 2026	12
M227312	Test Receiver	Rohde & Schwarz	ESW44	103203	10 Dec 2026	12
A230567	Pre-Amplifier	Atlantic Microwave	A-HPAKX-380143-K5K5	VJ3601001	07 Jul 2026	12
A255973	Signal Conditioning Unit	Link Microtek	AMUNIT-SCB-UL1	16814	14 Apr 2027	12
A231043	Antenna	Schwarzbeck	BBHA 9120 B	00834	07 Jul 2026	12
A231046	Antenna	Schwarzbeck	HWRD 750	00065	07 Jul 2026	12
A231050	Antenna	Schwarzbeck	BBHA 9170	01280	07 Jul 2026	12
C267019	RF Cable	Huber + Suhner	SF526EA/11N/11N/7000	3458770004	26 Aug 2026	12
C226956	RF Cable	Huber + Suhner	SF126EA/11N/11N/2000	520365	07 Jul 2026	12
C256200	RF Cable	Link Microtek	B10-07-07-0.5M-001	#8	26 Aug 2026	12
C223506	RF Cable	Schwarzbeck	AK 9540-2.0	00035	07 Jul 2026	12
C223502	RF Cable	Schwarzbeck	AK 9540-0.6	00029	07 Jul 2026	12
M226556	Thermohygrometer	Testo	608-H1	83800306	17 Dec 2026	12
K226203	3m RSE Chamber	Albatross Projects	N/A	N/A	07 Jul 2026	12
M274016	Test Receiver	Rohde & Schwarz	ESW44	103584	17 Dec 2026	12
A231567	Pre-Amplifier	RF Bay	LNA-1070	2	07 Jul 2026	12
A3161	Antenna	Teseq	CBL6111D	50859	21 Aug 2026	12
A3113	Attenuator	AltanTecRF	AN18-06	219706#3	21 Aug 2026	12
A227145	Low Pass Filter	AltanTecRF	Micro-Tronics	LPM21015	07 Jul 2026	12
C227002	RF Cable	Huber + Suhner	SF126EA/11N/11N/6000mm	520901	07 Jul 2026	12
C226916	RF Cable	Huber + Suhner	SF126EA/11N/11N/4000mm	520384	07 Jul 2026	12
C226955	RF Cable	Huber + Suhner	SF126EA/11N/11N/2000	520363/126EA	07 Jul 2026	12
C226942	RF Cable	Huber + Suhner	SF126EA/11N/11N/800	520358/126EA	07 Jul 2026	12

Test Equipment Used for Band Edge Radiated Emissions Tests

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M226556	Thermohygrometer	Testo	608-H1	83800306	17 Dec 2026	12
K226203	3m RSE Chamber	Albatross Projects	N/A	N/A	07 Jul 2026	12
M274016	Test Receiver	Rohde & Schwarz	ESW44	103584	17 Dec 2026	12
A266802	Signal Conditioning Unit	Link Microtek	AMUNIT-SCB-UL1	16817	16 Jul 2026	12
A231044	Antenna	Schwarzbeck	BBHA 9120 B	00835	07 Jul 2026	12
C267843	RF Cable	Huber + Suhner	SF526EA/11N/11N/7000	3458770001	06 Nov 2026	12
C226957	RF Cable	Huber + Suhner	SF126EA/11N/11N/2000	520366	06 Nov 2026	12
C256193	RF Cable	Link Microtek	B10-07-07-0.5M-001	#7	04 Nov 2026	12

Test Measurement Software/Firmware Used for Radiated Tests

Name	Version	Release Date
Phoenix Core	5.0.11	08 April 2026
Phoenix Radiated	5.1.2	19 March 2026

3 Equipment Under Test (EUT)

3.1 Identification of Equipment Under Test (EUT)

Brand Name*:	Apple
Model Name or Number / HVIN*:	A3534
FCC ID*:	BCGA3534
ISED Canada Certification Number*:	579C-A3534

Test Sample Serial Number*:	Hardware Version*:	Software Version*:	Date of Receipt:
KQH4V6G739 (<i>Conducted</i>)	REV 1.0	26A259	16 April 2026
G14HWWN6X4 (<i>Radiated</i>)	REV 1.0	26A259	23 March 2026

3.2 Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

3.3 Additional Information Related to Testing

Technology Tested:	<i>Bluetooth</i>		
Type of Unit:	Transceiver		
Channel Spacing:	1 MHz		
Power Supply Requirement(s)*:	12 VDC via 120 VAC 60 Hz AC/DC supply		
Maximum Conducted Output Power:	20.29 dBm		
Transmit Frequency Range:	2400 MHz to 2483.5 MHz		
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	0	2402
	Middle	39	2441
	Top	78	2480

Mode*	Modulation*	Packet Type (Maximum Payload)*	Data Rate (Mbps)*
Basic Rate	GFSK	DH5	1
Enhanced Data Rate	$\pi/4$ -DQPSK	2DH5	2
Enhanced Data Rate	8DPSK	3DH5	3

3.4 Description of Available Antennas

The radio utilizes three integrated antennas, with the following maximum gains:

Frequency (MHz)	Antenna Port	Antenna Gain (dBi)*	Directional Antenna Gain (dBi)
2402	Core 0	1.3	4.26
2440	Core 0	0.8	3.91
2480	Core 0	1.4	4.36
2402	Core 1	1.2	4.26
2440	Core 1	1.0	3.91
2480	Core 1	1.3	4.36
2402	Core 2	0.2	-
2440	Core 2	-0.4	
2480	Core 2	0.7	

The EUT complies with FCC Part 15.203 requirements by using permanently attached antennas with no option for external connections.

3.5 Description of Test Setup

Support Equipment

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

Customer Supplied*:

Description	Brand Name	Model Name or Number	Serial Number
Test Laptop	Apple	MacBook Pro	DM66H33Y9M
USB Diagnostic Cable	Apple	Chimp	439181
Test Laptop	Apple	MacBook Pro	K5J73GH9RH
USB Diagnostic Cable	Apple	Chimp	902CC8
Test Laptop	Apple	MacBook Pro	D097W7KM29
USB Diagnostic Cable	Apple	Chimp	4398AB

Laboratory Supplied:

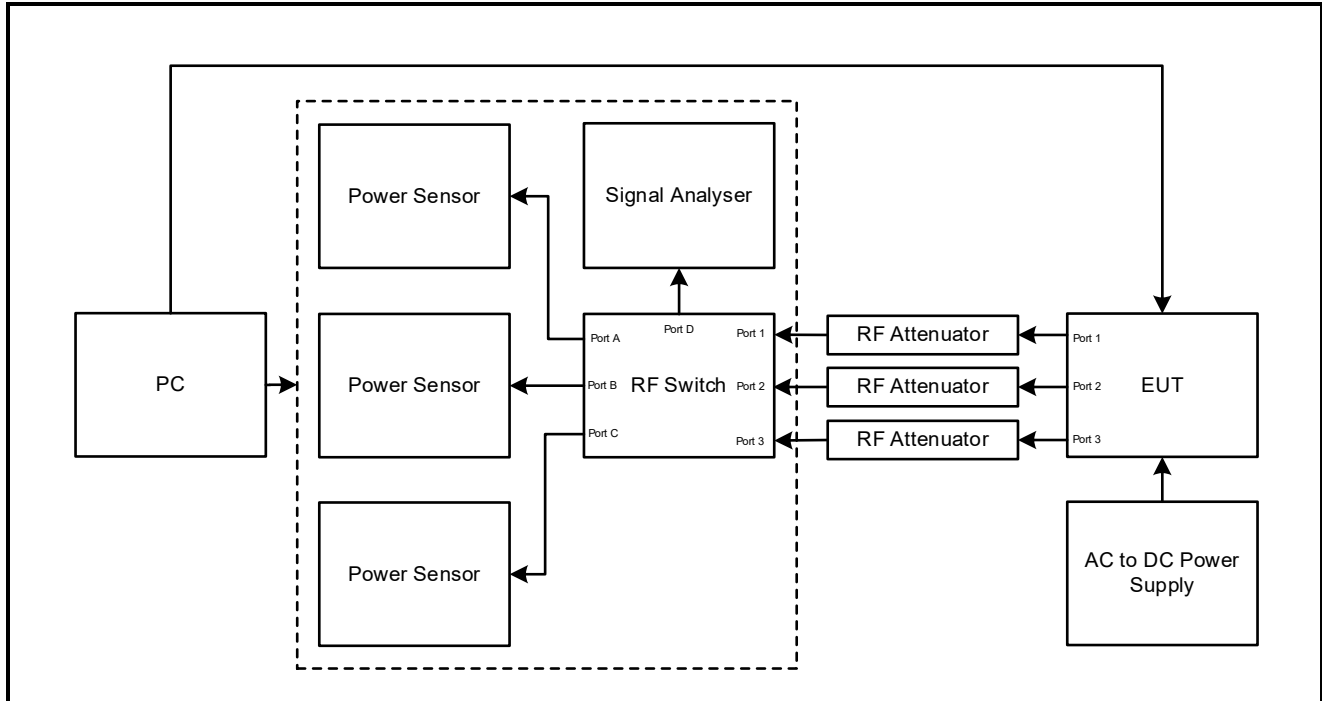
Description	Brand Name	Model Name or Number	Serial Number
USB-C Docking Station. Quantity 2.	Lenovo	LDA-KP LDC-G2	ZVR03H0D ZKW05W5E
Ethernet Cable. Length 5m.	Not marked or stated	Not marked or stated	Not marked or stated
HDMI Cable. Length 5m.	Not marked or stated	Not marked or stated	Not marked or stated
USB-A Cable. Quantity 4. Length 3m.	Not marked or stated	Not marked or stated	Not marked or stated
USB C-A Adapter. Quantity 4.	Not marked or stated	Not marked or stated	Not marked or stated
Personal Hands Free (PHF)	Not marked or stated	Not marked or stated	Not marked or stated

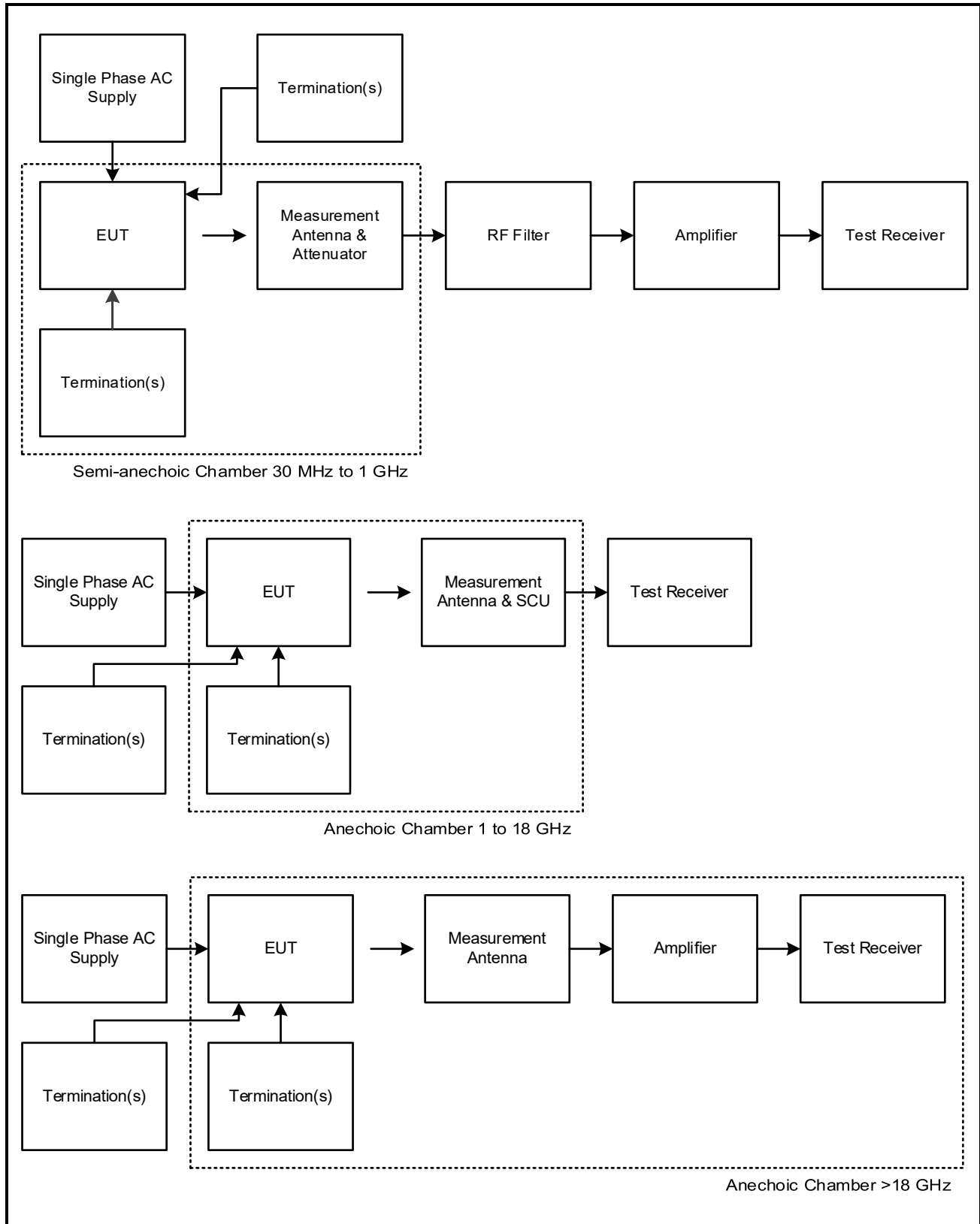
Operating Modes, Configuration and Peripherals

- Continuously transmitting at maximum output power on the packet types shown in section 3.3.
- Controlled in test mode using a set of commands entered into a terminal application on the test laptop supplied by the customer. The commands were used to enable a continuous transmission and to select the test channels & packet types as required.
- The EUT was powered from an AC to DC Power Supply. The input was connected to a 120 VAC 60 Hz single phase mains supply.
- The customer supplied RF test cable connections to the internal EUT antenna ports in order to perform conducted measurements. The respective path losses were added to the measurements along with the automated test system path losses.
- Radiated emissions below 1 GHz and above 18 GHz were performed with the EUT set to transmit at the channel with the highest output power as worst-case scenario. Between 1 GHz and 18 GHz, tests were performed with the EUT set to transmit at the highest power on bottom, middle and top channels.
- Radiated emissions tests were performed with the EUT transmitting in the following modes. The EUT was configured for 2Tx Beamforming mode with the power setting equal or higher than SISO modes as a worst-case scenario:
 - DH5 / Beamforming / Core 0 + Core 1 / ePA
 - DH5 / Beamforming / Core 0 + Core 1 / iPA

Sections 5.1 & 5.2 only have DH5 / Beamforming / Core 0 + Core 1 / ePA reported. All the other modes are archived on the UL IT server and available for inspection if required.

- Radiated emissions and band edge tests were performed with the EUT in its worst-case orientation with respect to emissions.
- Band Edge measurements were performed on the worst-case data rates declared by the customer.
- All active ports were terminated using the appropriate terminations during radiated emissions testing.

Test Setup Diagrams**Conducted Tests:****Test Setup for Conducted Tests**

Test Setup Diagrams (continued)**Radiated Tests:****Test Setup for Radiated Emissions**

4 Antenna Port Test Results

4.1 Duty Cycle

Test Summary:

Test Engineer:	Jerome Moyo	Test Date:	02 June 2026
Test Sample Serial Number:	KQH4V6G739		

FCC Clause:	Part 15.35(c)
ISED Canada Clause:	RSS-Gen 8.2
Test Method Used:	ANSI C63.10 Section 11.6

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	53

Note(s):

1. The duty cycle was measured using a calibrated power sensor. The power sensor used has a sufficiently short response time to accurately capture the ON and OFF periods of the transmitted signal.
2. The duty cycle is identical for both SISO and Beamforming modes.

Duty Cycle (continued)**Results: SISO**

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	2 (Core 0)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	Burst Type	Stability	Duty Cycle (%)	Period (ms)	Width (ms)
2402	Burst Tx	< $\pm 2\%$	76.71	3.750	2.877

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	Burst Type	Stability	Duty Cycle (%)	Period (ms)	Width (ms)
2402	Burst Tx	< $\pm 2\%$	76.83	3.750	2.881

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	Burst Type	Stability	Duty Cycle (%)	Period (ms)	Width (ms)
2402	Burst Tx	< $\pm 2\%$	76.88	3.750	2.883

4.2 20 dB & 99% Bandwidth

Test Summary:

Test Engineer:	Jerome Moyo	Test Date:	02 June 2026
Test Sample Serial Number:	KQH4V6G739		

99% OBW:

FCC Clause:	N/A
ISED Canada Clause:	RSS-Gen 6.7
Test Method Used:	ANSI C63.10 Section 7.8.6 referencing section 6.9.3

20 dB BW:

FCC Clause:	15.247 (a)(1)
ISED Canada Clause:	RSS-247 6.2.1(a) / RSS-Gen 6.7
Test Method Used:	ANSI C63.10 Section 6.9.2

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	53

Note(s):

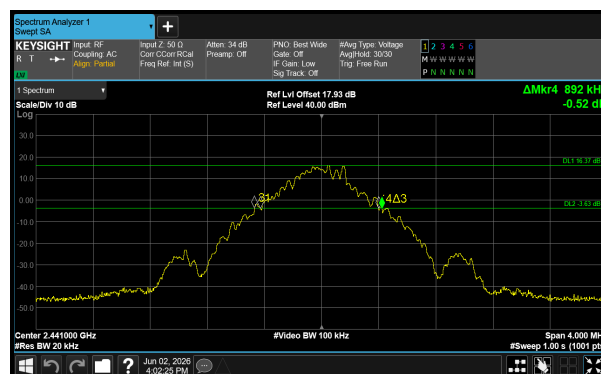
1. OBW: The transmitter output is connected to a signal analyser. The RBW is set in the range of 1% to 5% of the 99% OBW. The VBW is set to $\geq 3 \times \text{RBW}$. The sweep time is coupled.
2. 20 dB BW: The transmitter output is connected to a signal analyser. The RBW is set in the range of 1% to 5% of the 20 dB bandwidth. The VBW is set to $\geq 3 \times \text{RBW}$. The sweep time is coupled. The bandwidth was measured at 20 dB down from the peak of the signal.
3. The analyser plot contains both marker sets used for the occupied bandwidth evaluation. Markers 1 & 2 define the 99% Occupied Bandwidth, and markers 3 & 4 define the 20 dB bandwidth. Since the instrument displays only one active marker delta measurement, the value shown on the plot is associated with the 20 dB bandwidth only. The 99% Occupied Bandwidth result is calculated from the raw trace data and subsequently identified between markers 1 & 2 as documented in the test results tables below.
4. Example plots of each modulation on the worst-case channel, for one antenna configuration, can be seen below to show setting parameters comply with testing method/procedure. All other plots are archived on the UL IT server and available for inspection if required.

20 dB & 99% Bandwidth (continued)**Results: SISO / ePA**

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	2 (Core 0)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	0.825	-	-	-
2441	-	0.828	-	-	-
2480	-	0.828	-	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	0.891	-	-	-
2441	-	0.892	-	-	-
2480	-	0.888	-	-	-

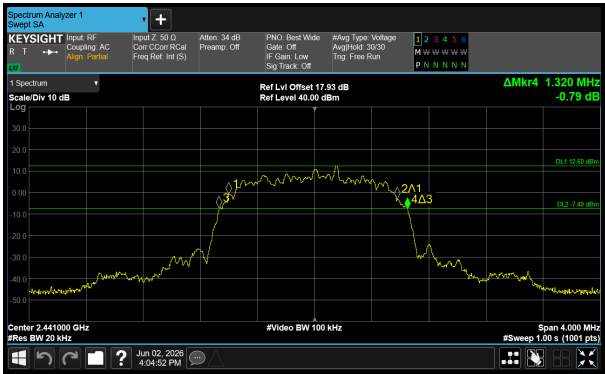


20 dB & 99% Bandwidth (continued)

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.180	-	-	-
2441	-	1.180	-	-	-
2480	-	1.180	-	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.320	-	-	-
2441	-	1.320	-	-	-
2480	-	1.320	-	-	-

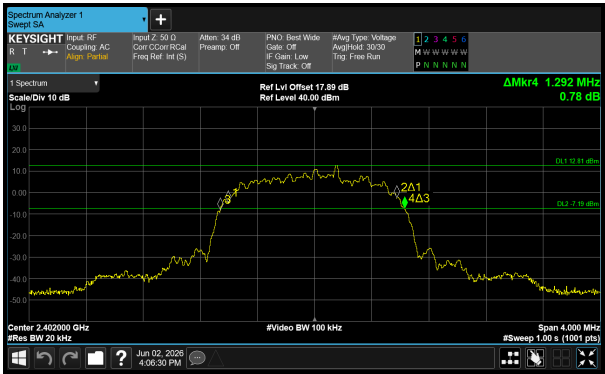


20 dB & 99% Bandwidth (continued)

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.180	-	-	-
2441	-	1.180	-	-	-
2480	-	1.180	-	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.292	-	-	-
2441	-	1.288	-	-	-
2480	-	1.288	-	-	-



20 dB & 99% Bandwidth (continued)**Results: SISO / iPA**

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	2 (Core 0)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	0.828	-	-	-
2441	-	0.824	-	-	-
2480	-	0.825	-	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	0.891	-	-	-
2441	-	0.888	-	-	-
2480	-	0.891	-	-	-

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.184	-	-	-
2441	-	1.184	-	-	-
2480	-	1.188	-	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.324	-	-	-
2441	-	1.324	-	-	-
2480	-	1.324	-	-	-

20 dB & 99% Bandwidth (continued)

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.192	-	-	-
2441	-	1.192	-	-	-
2480	-	1.188	-	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.292	-	-	-
2441	-	1.292	-	-	-
2480	-	1.296	-	-	-

20 dB & 99% Bandwidth (continued)**Results: Beamforming / ePA**

Antenna Configuration:	Beamforming	Mode:	BDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	0.828	0.825	-	-
2441	-	0.825	0.828	-	-
2480	-	0.828	0.828	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	0.891	0.891	-	-
2441	-	0.891	0.888	-	-
2480	-	0.888	0.888	-	-

Antenna Configuration:	Beamforming	Mode:	EDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.180	1.180	-	-
2441	-	1.180	1.180	-	-
2480	-	1.184	1.184	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.320	1.320	-	-
2441	-	1.320	1.320	-	-
2480	-	1.320	1.320	-	-

20 dB & 99% Bandwidth (continued)

Antenna Configuration:	Beamforming	Mode:	EDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.180	1.180	-	-
2441	-	1.180	1.180	-	-
2480	-	1.180	1.180	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.288	1.288	-	-
2441	-	1.288	1.288	-	-
2480	-	1.288	1.288	-	-

20 dB & 99% Bandwidth (continued)**Results: Beamforming / iPA**

Antenna Configuration:	Beamforming	Mode:	BDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	0.825	0.828	-	-
2441	-	0.828	0.828	-	-
2480	-	0.825	0.825	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	0.891	0.888	-	-
2441	-	0.888	0.888	-	-
2480	-	0.891	0.891	-	-

Antenna Configuration:	Beamforming	Mode:	EDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.184	1.184	-	-
2441	-	1.184	1.184	-	-
2480	-	1.188	1.188	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.324	1.324	-	-
2441	-	1.324	1.324	-	-
2480	-	1.324	1.324	-	-

20 dB & 99% Bandwidth (continued)

Antenna Configuration:	Beamforming	Mode:	EDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.192	1.192	-	-
2441	-	1.192	1.192	-	-
2480	-	1.188	1.188	-	-

Test Frequency (MHz)	20 dB Bandwidth (MHz)				Limit (kHz)
	1	2	3	4	
2402	-	1.292	1.292	-	-
2441	-	1.292	1.292	-	-
2480	-	1.296	1.292	-	-

4.3 Carrier Frequency Separation

Test Summary:

Test Engineer:	Jerome Moyo	Test Date:	02 June 2026
Test Sample Serial Number:	KQH4V6G739		

FCC Clause:	Part 15.247(a)(1)
ISED Canada Clause:	RSS-247 6.2.3.1(a) / RSS-Gen 6.7
Test Method Used:	ANSI C63.10 Section 7.8.2

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	53

Note(s):

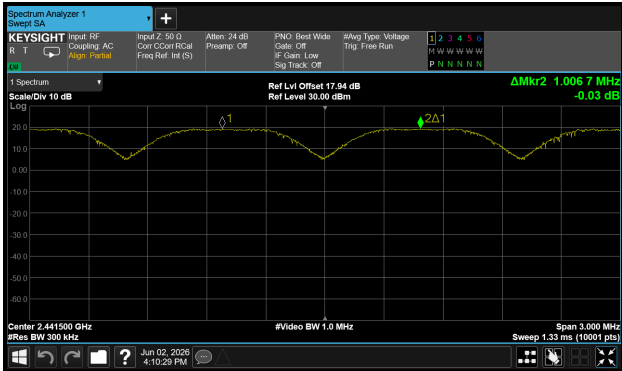
1. The 20 dB bandwidth measured for the middle channel operating at 2441 MHz was used to calculate the limit.
2. The transmitter output is connected to a signal analyser. The RBW is set to 300 kHz and the VBW is set to $\geq 3 \times \text{RBW}$. The sweep time is coupled.
3. Example plots of each modulation on the worst-case channel, for one antenna configuration, can be seen below to show setting parameters comply with testing method/procedure. All other plots are archived on the UL IT server and available for inspection if required.

Carrier Frequency Separation (continued)

Results: SISO / ePA

Antenna Configuration:		SISO	Mode:	BDR
Test Port:		2 (Core 0)	FHSS:	Hopping

Packet Type / Modulation	Hopping Frequency (MHz)		Fhs (MHz)	20 dB Bandwidth (MHz)	Limit (MHz)	Margin (MHz)
	F1	F2				
DH5 (GFSK)	2440.980	2441.987	1.007	1.320	0.880	0.127



Carrier Frequency Separation (continued)**Results: SISO / iPA**

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	2 (Core 0)	FHSS:	Hopping

Packet Type / Modulation	Hopping Frequency (MHz)		F _{HS} (MHz)	20 dB Bandwidth (MHz)	Limit (MHz)	Margin (MHz)
	F1	F2				
DH5 (GFSK)	2440.971	2441.995	1.024	1.324	0.883	0.141

Results: Beamforming / ePA

Antenna Configuration:	Beamforming	Mode:	BDR
Test Port:	2+3 (Core 0 + Core 1)	FHSS:	Hopping

Packet Type / Modulation	Hopping Frequency (MHz)		F _{HS} (MHz)	20 dB Bandwidth (MHz)	Limit (MHz)	Margin (MHz)
	F1	F2				
DH5 (GFSK)	2440.990	2442.000	1.010	1.320	0.880	0.130

Results: Beamforming / iPA

Antenna Configuration:	Beamforming	Mode:	BDR
Test Port:	2+3 (Core 0 + Core 1)	FHSS:	Hopping

Packet Type / Modulation	Hopping Frequency (MHz)		F _{HS} (MHz)	20 dB Bandwidth (MHz)	Limit (MHz)	Margin (MHz)
	F1	F2				
DH5 (GFSK)	2440.993	2442.009	1.016	1.324	0.883	0.133

4.4 Number of Hopping Frequencies and Average Time of Occupancy

Test Summary:

Test Engineer:	Jerome Moyo	Test Dates:	02 June 2026 & 05 June 2026
Test Sample Serial Number:	KQH4V6G739		

FCC Clause:	Part 15.247(a)(1)(iii)
ISED Canada Clause:	RSS-247 6.2.3.1(b)
Test Method Used:	ANSI C63.10 Sections 7.8.3 & 7.8.4

Environmental Conditions:

Temperature (°C):	22 to 23
Relative Humidity (%):	48 to 53

Note(s):

1. The transmitter output is connected to a signal analyser.
2. For the Number of Hopping Frequencies, the span is set to cover the entire authorised band, in either a single sweep or in multiple contiguous sweeps. RBW is set to a maximum of 1% of the span. The analyser is set to Max Hold.
3. For the Average Time of Occupancy, the span is set to 0 Hz centred on a single hopping channel. The width of a single pulse is measured in a fast scan. The number of pulses is measured over a 31.6 second scan to enable resolution of each occurrence. The calculated period is 31.6 seconds based on the number of channels (79) x 0.4 seconds. For AFH mode the number of pulses is measured over an 8 second scan based on a calculation of 20 channels x 0.4 seconds.
4. Only DH5 is reported since EDR has exactly the same timing.

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

Results: SISO / ePA

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	2 (Core 0)	Modulation/Rate:	DH5 (GFSK)

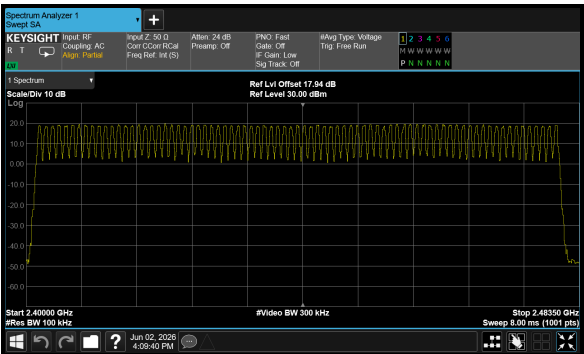
Burst Tx	Stability: < ±2%	Duty Cycle (%): 76.71	Period (ms): 3.750	Width (ms): 2.877
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Number of Hopping Frequencies		Limit
Min:	20	≥ 15
Max:	79	

Hopping Sequence Results

No. of Hopping Frequencies	Hopping Frequency Investigated (MHz)	Emission Width (ms)	Number of Hops	Average Time of Occupancy (ms)	Limit (ms)	Margin (ms)
Min:	2402	2.877	100	287.7	≤ 400.0	112.3
Max:	2402	2.877	113	325.1	≤ 400.0	74.9

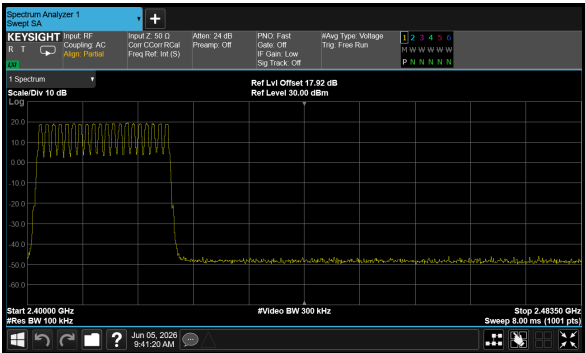
Average Time of Occupancy Results



Max Hopping Sequence



Max Time of Occupancy



Min Hopping Sequence



Min Time of Occupancy

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

Results: Beamforming / ePA

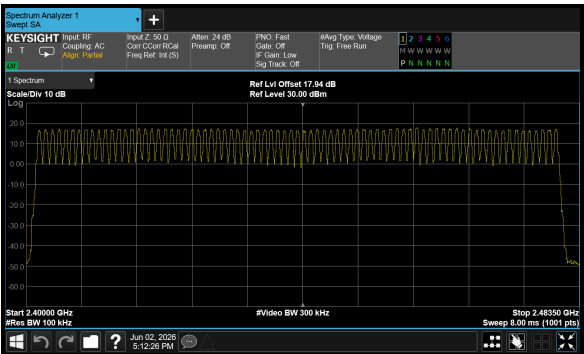
Antenna Configuration:	Beamforming	Mode:	BDR	
Test Port:	2+3 (Core 0 + Core 1)	Modulation/Rate:	DH5 (GFSK)	
Burst Tx	Stability: < ±2%	Duty Cycle (%): 76.70	Period (ms): 3.750	Width (ms): 2.876

Number of Hopping Frequencies		Limit
Min:	20	≥ 15
Max:	79	

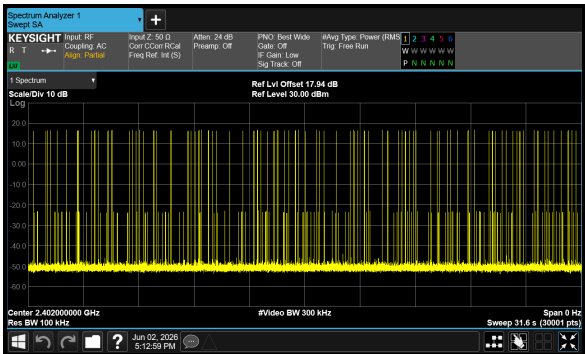
Hopping Sequence Results

No. of Hopping Frequencies	Hopping Frequency Investigated (MHz)	Emission Width (ms)	Number of Hops	Average Time of Occupancy (ms)	Limit (ms)	Margin (ms)
Min:	2402	2.876	113	325.0	≤ 400.0	75.0
Max:	2402	2.876	98	281.9	≤ 400.0	118.1

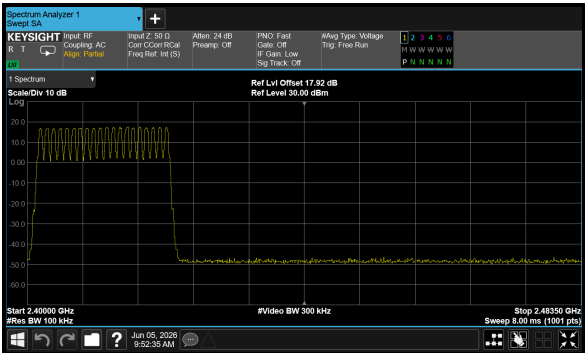
Average Time of Occupancy Results



Max Hopping Sequence



Max Time of Occupancy



Min Hopping Sequence



Min Time of Occupancy

4.5 Maximum Peak Output Power**Test Summary:**

Test Engineer:	Jerome Moyo	Test Date:	02 June 2026
Test Sample Serial Number:	KQH4V6G739		

FCC Clause:	Part 15.247(b)(1)
ISED Canada Clause:	RSS-247 6.2.3.2
Test Method Used:	ANSI C63.10 Section 7.8.5

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	53

Note(s):

1. Measurements were performed with a wideband peak power sensor.
2. The declared antenna gain was added to the conducted peak power to obtain the EIRP.

Maximum Peak Output Power (continued)**Results: SISO / ePA / Core 0**

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	2 (Core 0)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	20.04	-	-	-	1.30	30.00	9.96	21.34	36.00	14.66
2441	-	20.03	-	-	-	0.80	30.00	9.97	20.83	36.00	15.17
2480	-	20.03	-	-	-	1.40	30.00	9.97	21.43	36.00	14.57

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	19.17	-	-	-	1.30	30.00	10.83	20.47	36.00	15.53
2441	-	19.38	-	-	-	0.80	30.00	10.62	20.18	36.00	15.82
2480	-	19.13	-	-	-	1.40	30.00	10.87	20.53	36.00	15.47

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	19.67	-	-	-	1.30	30.00	10.33	20.97	36.00	15.03
2441	-	19.93	-	-	-	0.80	30.00	10.07	20.73	36.00	15.27
2480	-	19.72	-	-	-	1.40	30.00	10.28	21.12	36.00	14.88

Maximum Peak Output Power (continued)**Results: SISO / ePA / Core 1**

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	3 (Core 1)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	19.77	-	-	1.20	30.00	10.23	20.97	36.00	15.03
2441	-	-	19.87	-	-	1.00	30.00	10.13	20.87	36.00	15.13
2480	-	-	19.66	-	-	1.30	30.00	10.34	20.96	36.00	15.04

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	3 (Core 1)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	19.17	-	-	1.20	30.00	10.83	20.37	36.00	15.63
2441	-	-	19.25	-	-	1.00	30.00	10.75	20.25	36.00	15.75
2480	-	-	19.00	-	-	1.30	30.00	11.00	20.30	36.00	15.70

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	3 (Core 1)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	19.67	-	-	1.20	30.00	10.33	20.87	36.00	15.13
2441	-	-	19.80	-	-	1.00	30.00	10.20	20.80	36.00	15.20
2480	-	-	19.57	-	-	1.30	30.00	10.43	20.87	36.00	15.13

Maximum Peak Output Power (continued)**Results: SISO / iPA / Core 0**

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	2 (Core 0)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	9.33	-	-	-	1.30	30.00	20.67	10.63	36.00	25.37
2441	-	9.49	-	-	-	0.80	30.00	20.51	10.29	36.00	25.71
2480	-	9.53	-	-	-	1.40	30.00	20.47	10.93	36.00	25.07

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	8.85	-	-	-	1.30	30.00	21.15	10.15	36.00	25.85
2441	-	8.87	-	-	-	0.80	30.00	21.13	9.67	36.00	26.33
2480	-	9.02	-	-	-	1.40	30.00	20.98	10.42	36.00	25.58

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	2 (Core 0)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	9.30	-	-	-	1.30	30.00	20.70	10.60	36.00	25.40
2441	-	9.25	-	-	-	0.80	30.00	20.75	10.05	36.00	25.95
2480	-	9.40	-	-	-	1.40	30.00	20.60	10.80	36.00	25.20

Maximum Peak Output Power (continued)**Results: SISO / iPA / Core 1**

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	3 (Core 1)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	9.43	-	-	1.20	30.00	20.57	10.63	36.00	25.37
2441	-	-	9.19	-	-	1.00	30.00	20.81	10.19	36.00	25.81
2480	-	-	9.08	-	-	1.30	30.00	20.92	10.38	36.00	25.62

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	3 (Core 1)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	8.97	-	-	1.20	30.00	21.03	10.17	36.00	25.83
2441	-	-	8.70	-	-	1.00	30.00	21.30	9.70	36.00	26.30
2480	-	-	9.10	-	-	1.30	30.00	20.90	10.40	36.00	25.60

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	3 (Core 1)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	9.31	-	-	1.20	30.00	20.69	10.51	36.00	25.49
2441	-	-	8.98	-	-	1.00	30.00	21.02	9.98	36.00	26.02
2480	-	-	9.46	-	-	1.30	30.00	20.54	10.76	36.00	25.24

Maximum Peak Output Power (continued)**Results: SISO / iPA / Core 2**

Antenna Configuration:	SISO	Mode:	BDR
Test Port:	4 (Core 2)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	-	13.29	-	0.20	30.00	16.71	13.49	36.00	22.51
2441	-	-	-	13.26	-	-0.40	30.00	16.74	12.86	36.00	23.14
2480	-	-	-	13.39	-	0.70	30.00	16.61	14.09	36.00	21.91

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	4 (Core 2)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	-	12.84	-	0.20	30.00	17.16	13.04	36.00	22.96
2441	-	-	-	12.81	-	-0.40	30.00	17.19	12.41	36.00	23.59
2480	-	-	-	12.79	-	0.70	30.00	17.21	13.49	36.00	22.51

Antenna Configuration:	SISO	Mode:	EDR
Test Port:	4 (Core 2)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	-	-	13.23	-	0.20	30.00	16.77	13.43	36.00	22.57
2441	-	-	-	13.21	-	-0.40	30.00	16.79	12.81	36.00	23.19
2480	-	-	-	13.15	-	0.70	30.00	16.85	13.85	36.00	22.15

Maximum Peak Output Power (continued)**Results: Beamforming / ePA**

Antenna Configuration:	Beamforming	Mode:	BDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	17.22	17.24	-	20.24	4.26	30.00	9.76	24.50	36.00	11.50
2441	-	17.22	17.34	-	20.29	3.91	30.00	9.71	24.21	36.00	11.79
2480	-	17.24	17.15	-	20.21	4.36	30.00	9.79	24.57	36.00	11.43

Antenna Configuration:	Beamforming	Mode:	EDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	16.15	16.14	-	19.15	4.26	30.00	10.85	23.41	36.00	12.59
2441	-	16.37	16.23	-	19.31	3.91	30.00	10.69	23.22	36.00	12.78
2480	-	16.03	15.94	-	18.99	4.36	30.00	11.01	23.35	36.00	12.65

Antenna Configuration:	Beamforming	Mode:	EDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	16.63	16.66	-	19.66	4.26	30.00	10.34	23.92	36.00	12.08
2441	-	16.88	16.77	-	19.84	3.91	30.00	10.16	23.75	36.00	12.25
2480	-	16.64	16.51	-	19.59	4.36	30.00	10.41	23.95	36.00	12.05

Maximum Peak Output Power (continued)**Results: Beamforming / iPA**

Antenna Configuration:	Beamforming	Mode:	BDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	DH5 (GFSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	9.11	9.35	-	12.24	4.26	30.00	17.76	16.50	36.00	19.50
2441	-	9.40	9.15	-	12.29	3.91	30.00	17.71	16.20	36.00	19.80
2480	-	9.50	9.53	-	12.53	4.36	30.00	17.47	16.89	36.00	19.11

Antenna Configuration:	Beamforming	Mode:	EDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	2DH5 ($\pi/4$ DQPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	8.70	8.90	-	11.81	4.26	30.00	18.19	16.07	36.00	19.93
2441	-	8.88	8.60	-	11.75	3.91	30.00	18.25	15.66	36.00	20.34
2480	-	9.06	9.11	-	12.10	4.36	30.00	17.90	16.46	36.00	19.54

Antenna Configuration:	Beamforming	Mode:	EDR
Test Port:	2+3 (Core 0 + Core 1)	Rate/Modulation:	3DH5 (8DPSK)

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Antenna Gain (dBi)	Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	1	2	3	4	Σ						
2402	-	9.08	9.25	-	12.18	4.26	30.00	17.82	16.44	36.00	19.56
2441	-	9.23	8.97	-	12.11	3.91	30.00	17.89	16.02	36.00	19.98
2480	-	9.32	9.41	-	12.37	4.36	30.00	17.63	16.74	36.00	19.26

5 Radiated Test Results

5.1 Radiated Emissions <1 GHz

Test Summary:

Test Engineer:	Andrew Harding	Test Date:	15 June 2026
Test Sample Serial Number:	G14HWWN6X4		

FCC Clause:	Parts 15.247(d) & 15.209(a)
ISED Canada Clause:	RSS-247 6.6 / RSS-Gen 6.13 & 8.9
Test Method Used:	ANSI C63.10 Sections 6.3 & 6.5
Frequency Range	30 MHz to 1000 MHz

Environmental Conditions:

Temperature (°C):	22
Relative Humidity (%):	42

Note(s):

1. The preliminary scans showed similar emission levels below 1 GHz, for each channel of operation. Therefore, final radiated emissions measurements were performed with the EUT set to the middle channel only.
2. All emissions shown on the pre-scans were investigated and found to be ambient, or > 20 dB below the appropriate limit or below the noise floor of the measurement system. Therefore, the highest peak noise floor reading of the measuring receiver was recorded in the table below.
3. Measurements from 30 MHz to 1 GHz were performed in a semi-anechoic chamber (Asset Number) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.

Radiated Emissions (continued)**Results: Peak / Middle Channel / DH5 / Beamforming / Core 0 + Core 1 / ePA**

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
955.438	31.52	54.00	22.48	Vertical



5.2 Radiated Emissions >1 GHz

Test Summary:

Test Engineers:	Robert English & Prasanna Reddy	Test Dates:	04 May 2026 to 24 May 2026
Test Sample Serial Number:	G14HWWN6X4		

FCC Clause:	Parts 15.247(d) & 15.209(a)
ISED Canada Clause:	RSS-247 6.6 / RSS-Gen 6.13 & 8.9
Test Method Used:	ANSI C63.10 Sections 6.3, 6.6 & 7.5
Frequency Range	1 GHz to 26 GHz

Environmental Conditions:

Temperature (°C):	21 to 22
Relative Humidity (%):	35 to 43

Note(s):

1. No spurious emissions were detected above the noise floor of the measuring receiver for all channels tested therefore the highest peak and average noise floor readings of the measuring receiver for the middle channel were recorded as shown in the tables below.
2. No spurious emissions were detected above the noise floor of the measuring receiver, therefore, the highest peak and average noise floor readings of the measuring receiver were recorded in the tables below.
3. The emission shown on the 1 GHz to 3 GHz plot is the EUT fundamental.
4. Pre-scans above 1 GHz were performed in a fully anechoic chamber (Asset Number K226202) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT.

Radiated Emissions (continued)

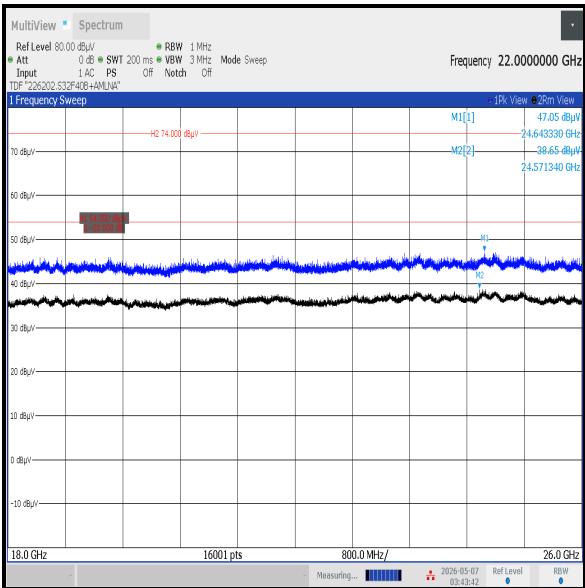
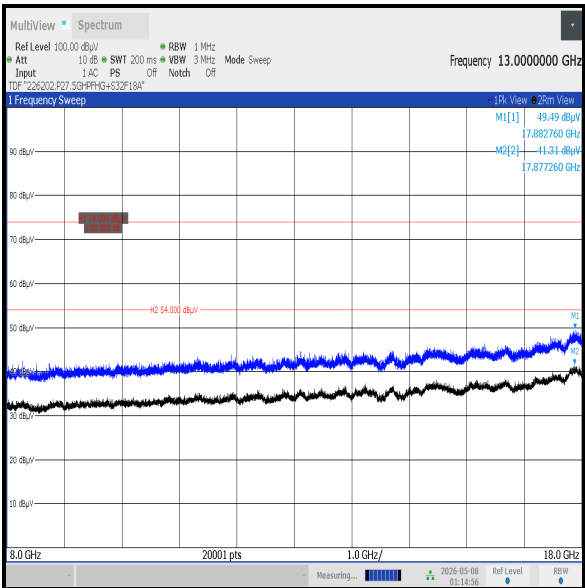
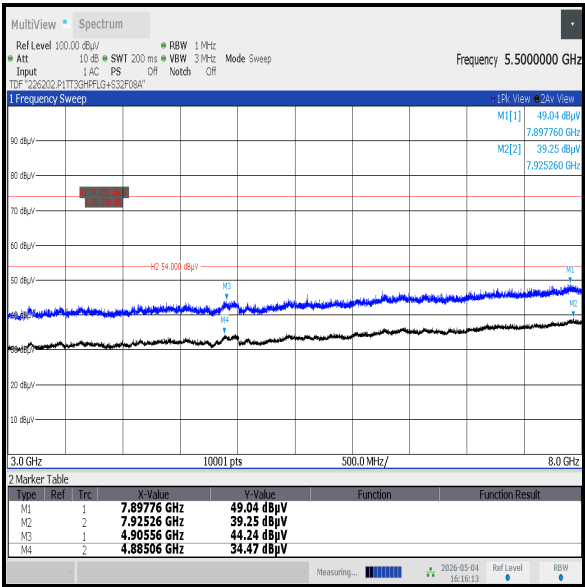
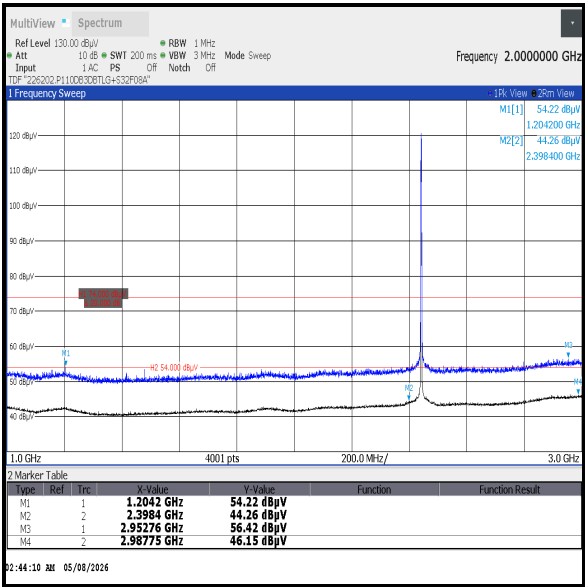
Results: DH5 / Beamforming / Core 0 + Core 1 / ePA

Results: Middle Channel / Peak

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Polarity
2952.760	56.42	74.00	17.58	Horizontal

Results: Middle Channel / Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Polarity
2987.750	46.15	54.00	7.85	Horizontal



5.3 Band Edge Radiated Emissions

Test Summary:

Test Engineers:	Max Passell & Jose Bayona	Test Dates:	13 April 2026 to 16 April 2026
Test Sample Serial Number:	G14HWWN6X4		

FCC Clause:	Parts 15.247(d) & 15.209(a)
ISED Canada Clause:	RSS-247 6.6 / RSS-Gen 6.13
Test Method Used:	ANSI C63.10 Section 6.10 & 7.5

Environmental Conditions:

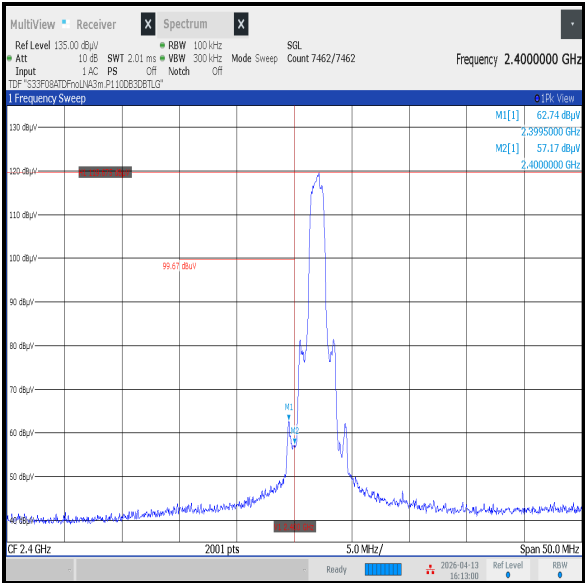
Temperature (°C):	22 to 23
Relative Humidity (%):	39 to 47

Note(s):

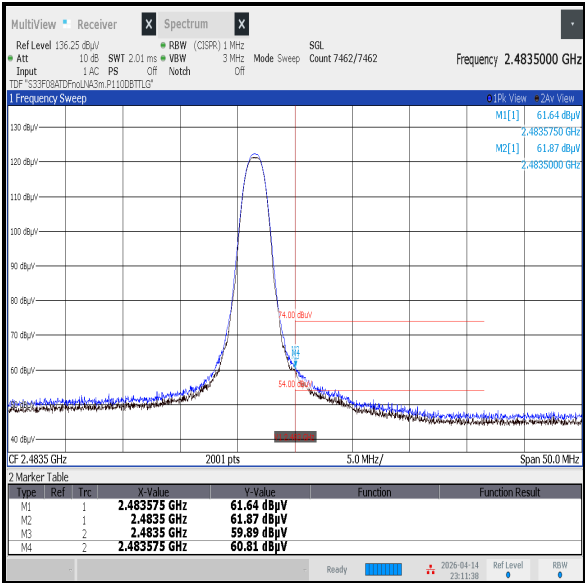
1. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss.
2. ## For the average band edge measurements: The corrected average level has been obtained by subtracting the calculated duty cycle correction factor from the measured peak level for any restricted band emissions related to the fundamental. See Appendix 1 for further information.
3. Example plots of the worst-case static and hopping configurations, can be seen below to show setting parameters comply with testing method/procedure. All other plots are archived on the UL IT server and available for inspection if required.

Band Edge Radiated Emissions (continued)

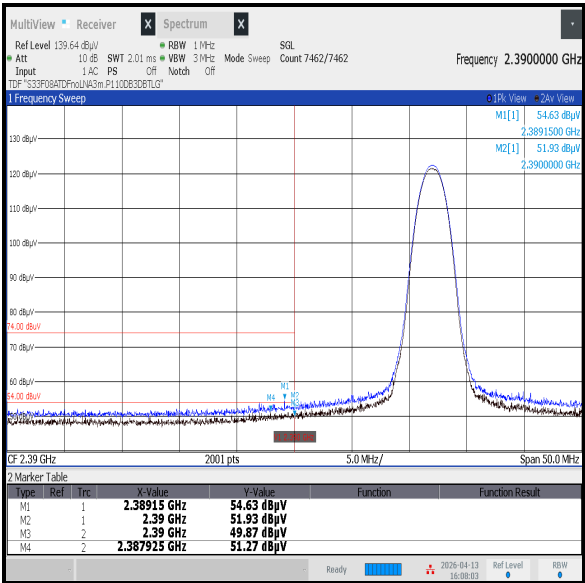
Example Plots / Static Mode / 3DH5 / Beamforming / Core 0 + Core 1 / ePA



Lower Band Edge – Non Restricted Band



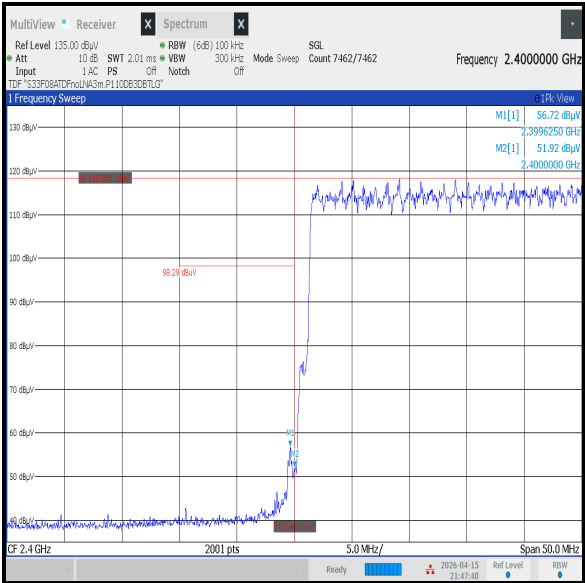
Upper Band Edge – Restricted Band



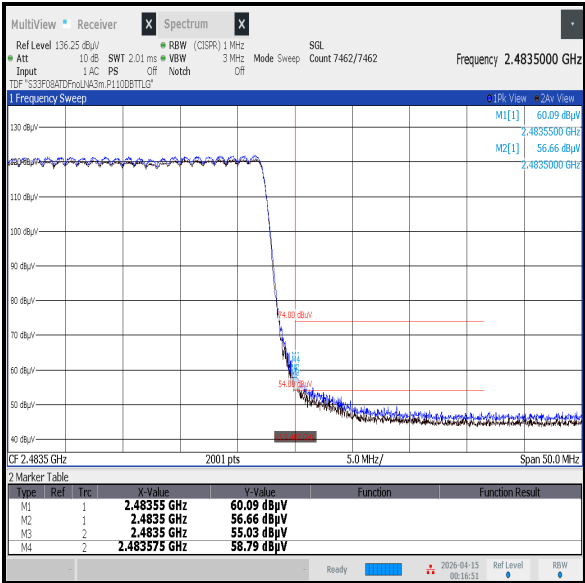
Lower Band Edge – Restricted Band

Band Edge Radiated Emissions (continued)

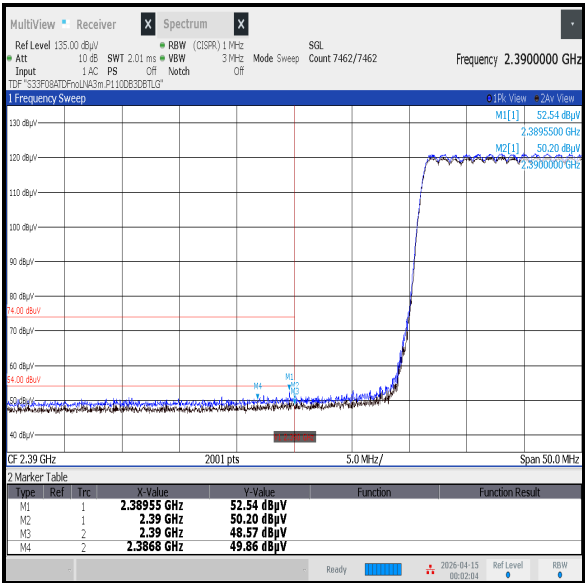
Example Plots / Hopping Mode / 3DH5 / Beamforming / Core 0 + Core 1 / ePA



Lower Band Edge – Non Restricted Band



Upper Band Edge – Restricted Band



Lower Band Edge – Restricted Band

Band Edge Radiated Emissions (continued)**Results: Static Mode / DH5 / SISO / Core 0 / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.975	49.71	95.61	45.90	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.825	53.10	74.00	20.90	Horizontal
2483.725	55.61	74.00	18.39	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.825	34.10 ^{##}	54.00	19.90	Horizontal
2483.725	36.61 ^{##}	54.00	17.39	Horizontal

Results: Hopping Mode / DH5 / SISO / Core 0 / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.475	45.66	94.52	48.86	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.575	51.03	74.00	22.97	Horizontal
2484.400	53.60	74.00	20.40	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.575	32.03 ^{##}	54.00	21.97	Horizontal
2484.400	34.60 ^{##}	54.00	19.40	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 2DH5 / SISO / Core 0 / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.525	55.40	95.14	39.74	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.475	53.79	74.00	20.21	Horizontal
2483.5	56.87	74.00	17.13	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.475	34.79 ^{##}	54.00	19.21	Horizontal
2483.5	37.87 ^{##}	54.00	16.13	Horizontal

Results: Hopping Mode / 2DH5 / SISO / Core 0 / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.500	48.42	93.86	45.44	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2377.925	51.35	74.00	22.65	Horizontal
2483.525	55.06	74.00	18.94	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2377.925	32.35 ^{##}	54.00	21.65	Horizontal
2483.525	36.06 ^{##}	54.00	17.94	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 3DH5 / SISO / Core 0 / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.475	55.99	95.53	39.54	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.625	53.27	74.00	20.73	Horizontal
2483.850	56.88	74.00	17.12	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2387.275	34.27 ^{##}	54.00	19.73	Horizontal
2483.5	37.88 ^{##}	54.00	16.12	Horizontal

Results: Hopping Mode / 3DH5 / SISO / Core 0 / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.650	50.80	94.92	44.12	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2387.275	51.28	74.00	22.72	Horizontal
2483.850	55.88	74.00	18.12	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2387.275	32.28 ^{##}	54.00	21.72	Horizontal
2483.850	36.88 ^{##}	54.00	17.12	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / DH5 / SISO / Core 1 / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.950	49.37	95.15	45.78	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.275	53.32	74.00	20.68	Horizontal
2483.550	57.49	74.00	16.51	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.275	34.32 ^{##}	54.00	19.68	Horizontal
2483.550	38.49 ^{##}	54.00	15.51	Horizontal

Results: Hopping Mode / DH5 / SISO / Core 1 / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2400.0	43.77	94.87	51.10	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2388.525	50.52	74.00	23.48	Horizontal
2483.600	55.82	74.00	18.18	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2388.525	31.52 ^{##}	54.00	22.48	Horizontal
2483.600	36.82 ^{##}	54.00	17.18	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 2DH5 / SISO / Core 1 / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.500	58.86	94.99	36.13	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2388.000	53.15	74.00	20.85	Horizontal
2483.5	57.59	74.00	16.41	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2388.000	34.15##	54.00	19.85	Horizontal
2483.5	38.59##	54.00	15.41	Horizontal

Results: Hopping Mode / 2DH5 / SISO / Core 1 / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.650	53.20	94.62	41.42	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2388.700	51.48	74.00	22.52	Horizontal
2483.725	54.58	74.00	19.42	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2388.700	32.48##	54.00	21.52	Horizontal
2483.725	35.58##	54.00	18.42	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 3DH5 / SISO / Core 1 / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.500	59.50	95.10	35.60	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.375	53.49	74.00	20.51	Horizontal
2483.600	57.77	74.00	16.23	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.375	34.49##	54.00	19.51	Horizontal
2483.600	38.77##	54.00	15.23	Horizontal

Results: Hopping Mode / 3DH5 / SISO / Core 1 / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.600	53.72	95.11	41.39	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2384.950	50.99	74.00	23.01	Horizontal
2483.575	55.63	74.00	18.37	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2384.950	31.99##	54.00	22.01	Horizontal
2483.575	36.63##	54.00	17.37	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / DH5 / SISO / Core 0 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2400.0	45.48	84.92	39.44	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2373.875	52.82	74.00	21.18	Horizontal
2483.525	49.95	74.00	24.05	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2373.875	33.82 ^{##}	54.00	20.18	Horizontal
2483.525	30.95 ^{##}	54.00	23.05	Horizontal

Results: Hopping Mode / DH5 / SISO / Core 0 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2400.0	46.67	86.47	39.80	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2382.175	50.85	74.00	23.15	Horizontal
2492.525	48.04	74.00	25.96	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2382.175	31.85 ^{##}	54.00	22.15	Horizontal
2492.525	29.04 ^{##}	54.00	24.96	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 2DH5 / SISO / Core 0 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.750	44.29	81.98	37.69	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2365.850	52.72	74.00	21.28	Horizontal
2483.825	49.04	74.00	24.96	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2365.850	33.72 ^{##}	54.00	20.28	Horizontal
2483.825	30.04 ^{##}	54.00	23.96	Horizontal

Results: Hopping Mode / 2DH5 / SISO / Core 0 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.775	40.28	82.23	41.95	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2373.825	50.72	74.00	23.28	Horizontal
2491.900	47.55	74.00	26.45	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2373.825	31.72 ^{##}	54.00	22.28	Horizontal
2491.900	28.55 ^{##}	54.00	25.45	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 3DH5 / SISO / Core 0 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.725	46.41	82.21	35.80	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2386.000	52.57	74.00	21.43	Horizontal
2483.525	55.47	74.00	18.53	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2386.000	33.57 ^{##}	54.00	20.43	Horizontal
2483.525	36.47 ^{##}	54.00	17.53	Horizontal

Results: Hopping Mode / 3DH5 / SISO / Core 0 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2400.0	44.91	81.29	36.38	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2373.800	51.11	74.00	22.89	Horizontal
2484.025	50.31	74.00	23.69	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2373.800	32.11 ^{##}	54.00	21.89	Horizontal
2484.025	31.31 ^{##}	54.00	22.69	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / DH5 / SISO / Core 1 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2400.0	45.14	84.10	38.96	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2379.000	52.63	74.00	21.37	Horizontal
2483.5	48.45	74.00	25.55	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2379.000	33.63 ^{##}	54.00	20.37	Horizontal
2483.5	29.45 ^{##}	54.00	24.55	Horizontal

Results: Hopping Mode / DH5 / SISO / Core 1 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.350	40.41	84.70	44.29	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2385.225	51.09	74.00	22.91	Horizontal
2497.175	47.95	74.00	26.05	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2385.225	32.09	54.00	21.91	Horizontal
2497.175	28.95	54.00	25.05	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 2DH5 / SISO / Core 1 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.525	44.38	79.90	35.52	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2376.875	52.42	74.00	21.58	Horizontal
2483.625	50.30	74.00	23.70	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2376.875	33.42 ^{##}	54.00	20.58	Horizontal
2483.625	31.30 ^{##}	54.00	22.70	Horizontal

Results: Hopping Mode / 2DH5 / SISO / Core 1 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.900	40.57	80.15	39.58	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2370.550	51.76	74.00	22.24	Horizontal
2483.575	48.00	74.00	26.00	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2370.550	32.76 ^{##}	54.00	21.24	Horizontal
2483.575	29.00 ^{##}	54.00	25.00	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 3DH5 / SISO / Core 1 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.700	46.26	80.10	33.84	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2379.475	52.17	74.00	21.83	Horizontal
2483.925	52.19	74.00	21.81	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2379.475	33.17 ^{##}	54.00	20.83	Horizontal
2483.925	33.19 ^{##}	54.00	20.81	Horizontal

Results: Hopping Mode / 3DH5 / SISO / Core 1 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.600	42.89	82.18	39.29	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2374.200	50.86	74.00	23.14	Horizontal
2483.775	50.78	74.00	23.22	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2374.200	31.86 ^{##}	54.00	22.14	Horizontal
2483.775	31.78 ^{##}	54.00	22.22	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / DH5 / SISO / Core 2 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2400.0	51.02	88.34	37.320	Vertical

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2372.875	52.63	74.00	21.37	Vertical
2483.525	48.39	74.00	25.61	Vertical

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2372.875	33.63 ^{##}	54.00	20.37	Vertical
2483.525	29.39 ^{##}	54.00	24.61	Vertical

Results: Hopping Mode / DH5 / SISO / Core 2 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.350	47.23	88.64	41.41	Vertical

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2388.300	51.25	74.00	22.75	Vertical
2490.475	47.72	74.00	26.28	Vertical

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2388.300	32.25 ^{##}	54.00	21.75	Vertical
2490.475	28.72 ^{##}	54.00	25.28	Vertical

Band Edge Radiated Emissions (continued)**Results: Static Mode / 2DH5 / SISO / Core 2 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.900	49.36	84.93	35.57	Vertical

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.600	52.27	74.00	21.73	Vertical
2483.5	55.08	74.00	18.92	Vertical

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.6	33.27##	54.00	20.73	Vertical
2483.5	36.08##	54.00	17.92	Vertical

Results: Hopping Mode / 2DH5 / SISO / Core 2 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.875	47.22	85.85	38.63	Vertical

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2385.200	51.19	74.00	22.81	Vertical
2483.550	52.28	74.00	21.72	Vertical

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2385.200	32.19##	54.00	21.81	Vertical
2483.550	33.28##	54.00	20.72	Vertical

Band Edge Radiated Emissions (continued)**Results: Static Mode / 3DH5 / SISO / Core 2 / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.975	55.58	85.65	30.07	Vertical

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2385.550	52.41	74.00	21.59	Vertical
2483.550	54.84	74.00	19.16	Vertical

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2385.550	33.41##	54.00	20.59	Vertical
2483.550	35.84##	54.00	18.16	Vertical

Results: Hopping Mode / 3DH5 / SISO / Core 2 / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.150	51.53	85.00	33.47	Vertical

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2387.400	50.91	74.00	23.09	Vertical
2483.5	53.49	74.00	20.51	Vertical

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2387.400	31.91##	54.00	22.09	Vertical
2483.5	34.49##	54.00	19.51	Vertical

Band Edge Radiated Emissions (continued)**Results: Static Mode / DH5 / Beamforming / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2400.0	52.01	99.65	47.64	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.025	53.54	74.00	20.46	Horizontal
2483.575	58.44	74.00	15.56	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.025	34.54 ^{##}	54.00	19.46	Horizontal
2483.575	39.44 ^{##}	54.00	14.56	Horizontal

Results: Hopping Mode / DH5 / Beamforming / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2400.0	46.37	99.05	52.68	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2365.400	50.86	74.00	23.14	Horizontal
2483.575	57.23	74.00	16.77	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2365.400	31.86 ^{##}	54.00	22.14	Horizontal
2483.575	38.23 ^{##}	54.00	15.77	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 2DH5 / Beamforming / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.525	62.05	99.65	37.60	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.300	53.81	74.00	20.19	Horizontal
2483.575	59.70	74.00	14.30	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.300	34.81 ^{##}	54.00	19.19	Horizontal
2483.575	40.70 ^{##}	54.00	13.30	Horizontal

Results: Hopping Mode / 2DH5 / Beamforming / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.500	54.62	99.14	44.52	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2387.600	51.22	74.00	22.78	Horizontal
2483.575	58.04	74.00	15.96	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2387.600	32.22 ^{##}	54.00	21.78	Horizontal
2483.575	39.04 ^{##}	54.00	14.96	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 3DH5 / Beamforming / ePA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.500	62.74	99.67	36.93	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.150	54.63	74.00	19.37	Horizontal
2483.5	61.87	74.00	12.13	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.150	35.63##	54.00	18.37	Horizontal
2483.5	42.87##	54.00	11.13	Horizontal

Results: Hopping Mode / 3DH5 / Beamforming / ePA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.625	56.72	98.29	41.57	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.550	52.54	74.00	21.46	Horizontal
2483.550	60.09	74.00	13.91	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2389.550	33.54##	54.00	20.46	Horizontal
2483.550	41.09##	54.00	12.91	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / DH5 / Beamforming / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.950	47.24	88.21	40.97	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2369.375	52.35	74.00	21.65	Horizontal
2483.700	50.02	74.00	23.98	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2369.375	33.35 ^{##}	54.00	20.65	Horizontal
2483.700	31.02 ^{##}	54.00	22.98	Horizontal

Results: Hopping Mode / DH5 / Beamforming / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.975	44.40	89.09	44.69	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2375.575	51.71	74.00	22.29	Horizontal
2486.200	47.97	74.00	26.03	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2375.575	32.71 ^{##}	54.00	21.29	Horizontal
2486.200	28.97 ^{##}	54.00	25.03	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 2DH5 / Beamforming / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.525	48.65	84.90	36.25	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2372.050	52.96	74.00	21.04	Horizontal
2483.750	49.75	74.00	24.25	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2372.050	33.96 ^{##}	54.00	20.04	Horizontal
2483.750	30.75 ^{##}	54.00	23.25	Horizontal

Results: Hopping Mode / 2DH5 / Beamforming / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2400.0	42.94	85.13	42.19	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2365.425	50.59	74.00	23.41	Horizontal
2483.875	48.66	74.00	25.34	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2365.425	31.59 ^{##}	54.00	22.41	Horizontal
2483.875	29.66 ^{##}	54.00	24.34	Horizontal

Band Edge Radiated Emissions (continued)**Results: Static Mode / 3DH5 / Beamforming / iPA****Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.700	49.30	83.34	34.04	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2374.075	52.87	74.00	21.13	Horizontal
2483.550	57.10	74.00	16.90	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2374.075	33.87 ^{##}	54.00	20.13	Horizontal
2483.550	38.10 ^{##}	54.00	15.90	Horizontal

Results: Hopping Mode / 3DH5 / Beamforming / iPA**Results: Non-Restricted Band / Peak**

Frequency (MHz)	Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2399.775	45.86	85.31	39.45	Horizontal

Results: Restricted Band / Peak

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2370.625	50.99	74.00	23.01	Horizontal
2483.700	55.22	74.00	18.78	Horizontal

Results: Restricted Band / Average

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Polarity
2370.625	31.99 ^{##}	54.00	22.01	Horizontal
2483.700	36.22 ^{##}	54.00	17.78	Horizontal

Appendix 1

FHSS Duty Cycle Correction Factor Calculation

In accordance with ANSI C63.10 section 7.5, a duty cycle correction factor may be applied to calculate the average radiated field strength emission levels for an FHSS device.

The following values were taken from the *Bluetooth* Core Specification V6.0 to give the worst case correction:

Modulation	DH5, 2DH5 and 3DH5
Channel Hopping Rate (Hops/s)	1600
Tx Timeslots	5
Rx Timeslots	1
Adjusted Hopping Rate for Adaptive Frequency Hopping (Hops/s)	266.667
Time per Hop (ms)	3.75
Minimum Number of Channels	20
Time per Hop Sequence (ms)	75
Maximum Number of Hops on One Channel in any 100 ms Observation Period	3
Maximum Dwell Time on One Channel in any 100 ms Observation Period (ms)	11.25
Calculated Duty cycle correction factor applied (dB)	19.0
Maximum Duty cycle correction factor applied (dB)	19.0

The duty cycle correction factor was calculated based on the above values:

$$DH5, 2DH5 \text{ and } 3DH5: 20 * \text{Log}(11.25 \text{ ms} / 100 \text{ ms}) = 19.0 \text{ dB}$$

--- END OF REPORT ---