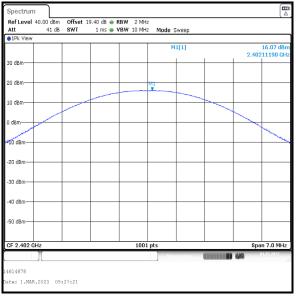
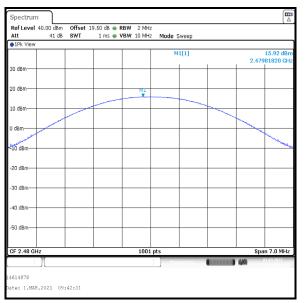
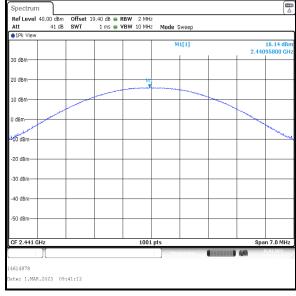
Results: 2DH5 / Beamforming / Core 0



Bottom Channel

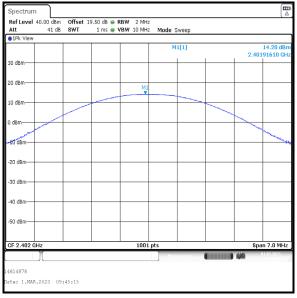


Top Channel

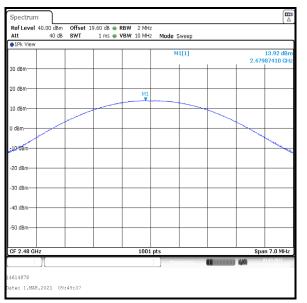


Middle Channel

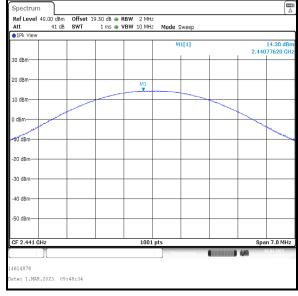
Results: 2DH5 / Beamforming / Core 1



Bottom Channel



Top Channel



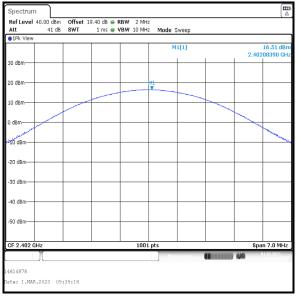
Middle Channel

Results: 3DH5 / Beamforming

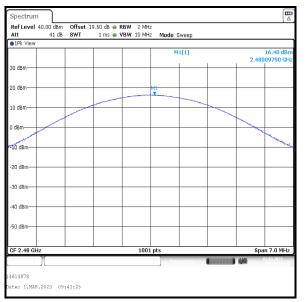
Channel	Conducted Peak Power Core 0 (dBm)	Conducted Peak Power Core 1 (dBm)	Combined Conducted Peak Power (dBm)	Conducted Peak Power Limit (dBm)	Margin (dB)	Result
Bottom	16.5	14.5	18.6	21.0	2.4	Complied
Middle	17.0	14.9	19.1	21.0	1.9	Complied
Тор	16.4	14.1	18.4	21.0	2.6	Complied

Channel	Combined Conducted Peak Power (dBm)	Declared Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Margin (dB)	Result
Bottom	18.6	5.9	24.5	36.0	11.5	Complied
Middle	19.1	5.9	25.0	36.0	11.0	Complied
Тор	18.4	5.9	24.3	36.0	11.7	Complied

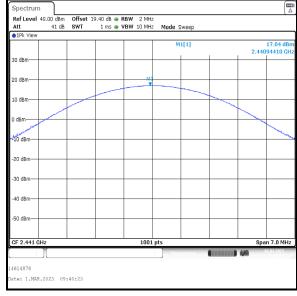
Results: 3DH5 / Beamforming / Core 0



Bottom Channel

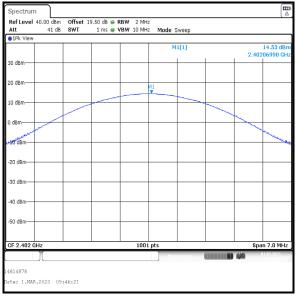


Top Channel

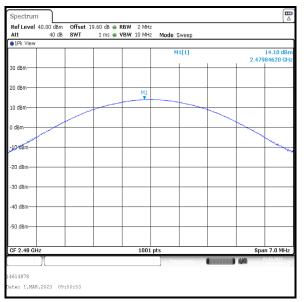


Middle Channel

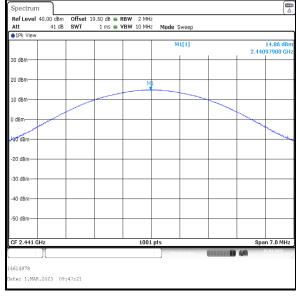
Results: 3DH5 / Beamforming / Core 1



Bottom Channel



Top Channel



Middle Channel

5 Radiated Test Results

5.1 Transmitter Radiated Emissions <1 GHz

Test Summary:

Test Engineers:	John Ferdinand & Andrew Harding	Test Dates:	01 February 2023 & 14 February 2023
Test Sample Serial Number:	NQHHW969D9		

FCC Reference:	Parts 15.247(d) & 15.209(a)
ISED Canada Reference:	RSS-Gen 6.13 / RSS-247 5.5
Test Method Used:	ANSI C63.10 Sections 6.3, 6.4 and 6.5
Frequency Range	9 kHz to 1000 MHz

Environmental Conditions:

Temperature (°C):	19 to 21
Relative Humidity (%):	34 to 38

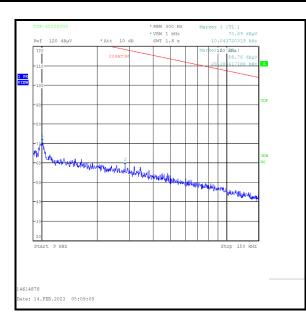
<u>Note(s):</u>

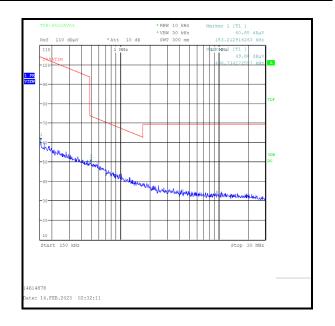
- 1. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss.
- 2. The preliminary scans showed similar emission levels below 1 GHz, for each channel of operation. Therefore final radiated emissions measurements were performed with the EUT set to the middle channel only.
- 3. 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.
- 4. Measurements below 30 MHz were performed in a semi-anechoic chamber (Asset Number K0001) at 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. The limit was extrapolated to 3 metres in accordance with ANSI C63.10 clause 6.4.3 using the method described in clause 6.4.4.2. ANSI C63.10 clause 5.2 states an alternative test site that can demonstrate equivalence to an open area test site may be used for measurements below 30 MHz. Therefore, measurements were performed in a semi-anechoic chamber. The correlation data between semi-anechoic chamber and an open field test site is available upon request.
- 5. Measurements from 30 MHz to 1 GHz were performed in a semi-anechoic chamber (Asset Number K0017) 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.
- 6. Pre-scans were performed and markers placed on the highest measured levels. The test receiver was configured as follows: For 9 kHz to 150 kHz, the resolution bandwidth was set to 300 Hz and video bandwidth 1 kHz. A peak detector was used and trace mode was Max Hold. For 150 kHz to 30 MHz, the resolution bandwidth was set to 10 kHz and video bandwidth 30 kHz, trace mode was Max Hold. For 30 MHz to 1 GHz, the resolution bandwidth was set to auto and trace mode was Max Hold.

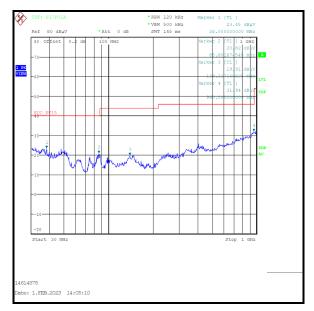
Transmitter Radiated Emissions (continued)

Results: Peak / Middle Channel / 3DH5 / Beamforming / Core 0 + Core 1

Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBµV/m)	(dBµV/m)	(dB)	
960.000	Horizontal	31.9	46.0	14.1	Complied







5.2 Transmitter Radiated Emissions >1 GHz

Test Summary:

Test Engineer:	John Ferdinand	Test Dates:	30 January 2023 to 02 February 2023
Test Sample Serial Numbers:	NQHHW969D9		
FCC Reference:	Parts 15.247(d) & 15.209(a)		
ISED Canada Reference:	RSS-Gen 6.13 / RSS-247 5.5		

Test Method Used:ANSI C63.10 Sections 6.3 and 6.6 & FCC KDB 558074 Section 9 b)Frequency Range1 GHz to 25 GHz

Environmental Conditions:

Temperature (°C):	20 to 22
Relative Humidity (%):	33 to 37

Note(s):

- 1. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss.
- 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 as shown in the tables below.
- 3. The emission shown on the 1 GHz to 3 GHz plot at approximately 2441 MHz is the EUT fundamental.
- 4. Pre-scans above 1 GHz were performed in a fully anechoic chamber (Asset Number K0017) 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.
- 5. Pre-scans were performed and a marker placed on the highest measured level of the appropriate plot. The test receiver resolution bandwidth was set to 1 MHz and video bandwidth 3 MHz. The sweep time was set to auto. Peak and average measurements were performed with their own appropriate detectors during the pre-scan measurements.

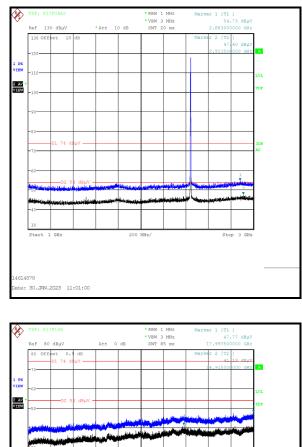
Results: Peak / Middle Channel / 3DH5 / Beamforming / Core 0 + Core 1

Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBµV/m)	(dBµV/m)	(dB)	
2883.000	Horizonal	54.7	74.0	19.3	Complied

Results: Average / Middle Channel / 3DH5 / Beamforming / Core 0 + Core 1

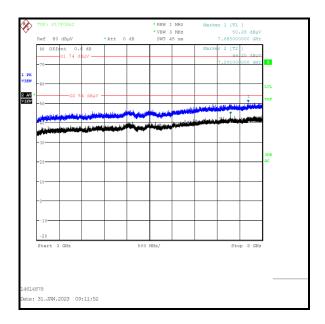
Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBµV/m)	(dBµV/m)	(dB)	
2911.500	Horizonal	47.6	54.0	6.4	Complied

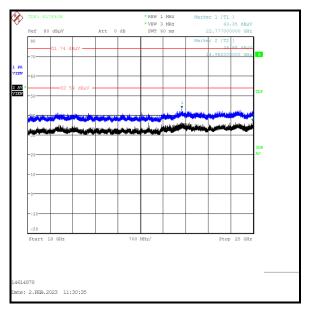
Transmitter Radiated Emissions (continued)



1 GHz/

Stop 18 GHz





Start 8 GHz

ate: 31.JAN.2023 12:14:39

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5.3 Transmitter Band Edge Radiated Emissions

Test Summary:

Test Engineers:	John Ferdinand & Andrew Harding	Test Dates:	12 January 2023 to 17 January 2023
Test Sample Serial Number:	NQHHW969D9		

FCC Reference:	Parts 15.247(d) & 15.209(a)
ISED Canada Reference:	RSS-Gen 6.13 / RSS-247 5.5
Test Method Used:	ANSI C63.10 Section 6.10 & FCC KDB 558074 Section 9. b)

Environmental Conditions:

Temperature (°C):	21 to 22
Relative Humidity (%):	36 to 40

Note(s):

- 1. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss.
- 2. The lower band edge is adjacent to a non-restricted band. 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. A marker was placed on the band edge spot frequencies and a second marker placed on the highest emission level in the adjacent band (where a higher level emission was present). Marker frequencies and levels were recorded.
- 3. The upper band edge is adjacent to a restricted band. The test receiver resolution bandwidth was set to 1 MHz and video bandwidth 3 MHz. Peak and average measurements were performed with their respective detectors, 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 was placed on the band edge spot frequencies and a second marker placed on the highest emission level in the adjacent band (where a higher level emission was present). Marker frequencies and levels were recorded.
- 4. There is a restricted band 10 MHz below the lower band edge. The test receiver was set up as follows: the RBW set to 1 MHz, the VBW set to 3 MHz, with the sweep time set to auto couple. Peak and average measurements were performed with their respective detectors. Markers were placed on the highest point on each trace.
- 5. * -20 dBc limit.
- 6. ** For the upper band edge the average 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.

Transmitter Band Edge Radiated Emissions (continued)

Results: Static Mode / 2DH5 / SISO / Core 0

Frequency (MHz)	Antenna Polarity	Peak Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2399.750	Horizontal	50.2	91.5*	41.3	Complied
2400.0	Horizontal	49.7	91.5*	41.8	Complied
2483.5	Horizontal	55.7	74.0	18.3	Complied
2485.103	Horizontal	56.2	74.0	17.8	Complied

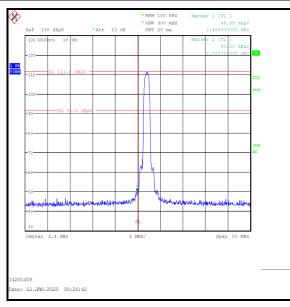
Frequency (MHz)	Antenna Polarity	Average Level (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Result
2483.5	Horizontal	36.7**	54.0	17.3	Complied

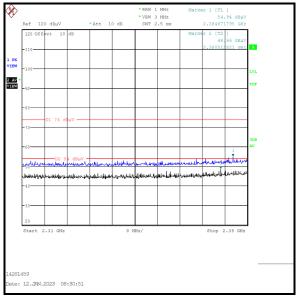
Results: 2310 MHz to 2390 MHz Restricted Band / Peak

Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBµV/m)	(dBµV/m)	(dB)	
2384.872	Horizontal	54.9	74.0	19.1	Complied

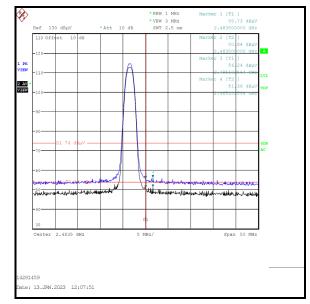
Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2380.513	Horizontal	48.7	54.0	5.3	Complied

Results: Static Mode / 2DH5 / SISO / Core 0





2310 MHz to 2390 MHz Restricted Band



Upper Band Edge

Transmitter Band Edge Radiated Emissions (continued)

Frequency (MHz)	Antenna Polarity	Peak Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2399.650	Horizontal	48.8	91.9*	43.1	Complied
2400.0	Horizontal	47.4	91.9*	44.5	Complied
2483.5	Horizontal	53.1	74.0	20.9	Complied
2497.282	Horizontal	54.3	74.0	19.7	Complied

Results: Hopping Mode / 2DH5 / SISO / Core 0

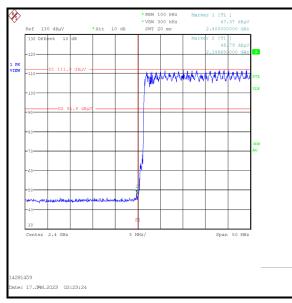
Frequency	Antenna	Average Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBµV/m)	(dB)	
2483.5	Horizontal	34.1**	54.0	19.9	Complied

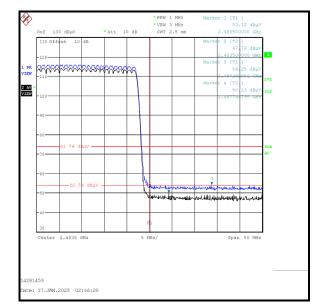
Results: 2310 MHz to 2390 MHz Restricted Band / Peak

Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2381.410	Horizontal	53.8	74.0	20.2	Complied

Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2386.923	Horizontal	47.9	54.0	6.1	Complied

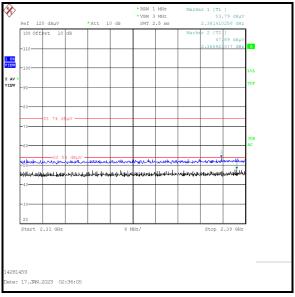
Results: Hopping Mode / 2DH5 / SISO / Core 0





Upper Band Edge





2310 MHz to 2390 MHz Restricted Band

Transmitter Band Edge Radiated Emissions (continued)

Frequency (MHz)	Antenna Polarity	Peak Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2400.0	Horizontal	50.5	91.9*	41.4	Complied
2483.5	Horizontal	57.9	74.0	16.1	Complied

Results: Static Mode / 3DH5 / SISO / Core 0

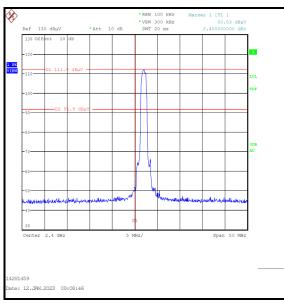
Frequency	Antenna	Average Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBµV/m)	(dB)	
2483.5	Horizontal	38.9**	54.0	15.1	Complied

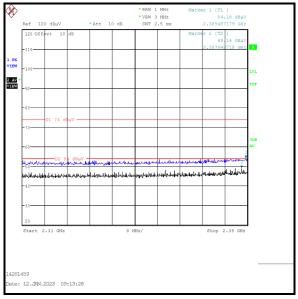
Results: 2310 MHz to 2390 MHz Restricted Band / Peak

Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBµV/m)	(dBµV/m)	(dB)	
2389.487	Horizontal	54.2	74.0	19.8	Complied

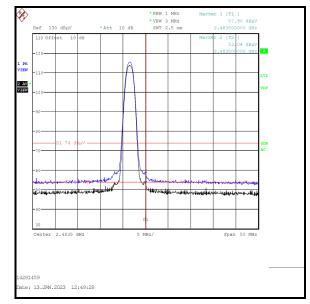
Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBµV/m)	(dBµV/m)	(dB)	
2387.949	Horizontal	49.1	54.0	4.9	Complied

Results: Static Mode / 3DH5 / SISO / Core 0





2310 MHz to 2390 MHz Restricted Band



Upper Band Edge

Transmitter Band Edge Radiated Emissions (continued)

Frequency (MHz)	Antenna Polarity	Peak Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2399.950	Horizontal	47.9	91.9*	44.0	Complied
2400.0	Horizontal	45.9	91.9*	46.0	Complied
2483.5	Horizontal	53.3	74.0	20.7	Complied
2488.548	Horizontal	54.8	74.0	19.2	Complied

Results: Hopping Mode / 3DH5 / SISO / Core 0

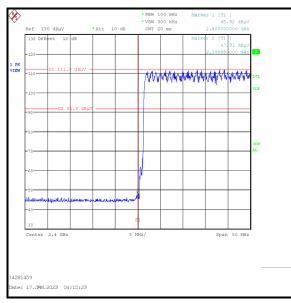
Frequency (MHz)	Antenna Polarity	Average Level (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Result
2483.5	Horizontal	34.3**	54.0	19.7	Complied

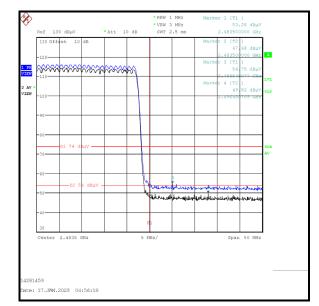
Results: 2310 MHz to 2390 MHz Restricted Band / Peak

Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBµV/m)	(dBµV/m)	(dB)	
2380.897	Horizontal	53.6	74.0	20.4	Complied

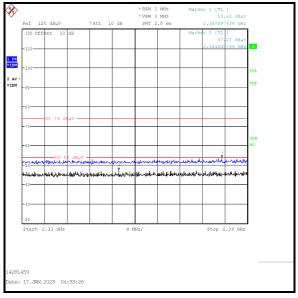
Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2344.231	Horizontal	47.3	54.0	6.7	Complied

Results: Hopping Mode / 3DH5 / SISO / Core 0





Upper Band Edge



2310 MHz to 2390 MHz Restricted Band

Transmitter Band Edge Radiated Emissions (continued)

Frequency (MHz)	Antenna Polarity	Peak Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2399.550	Horizontal	50.2	90.6*	40.4	Complied
2400.0	Horizontal	48.6	90.6*	42.0	Complied
2483.5	Horizontal	54.9	74.0	19.1	Complied
2483.580	Horizontal	55.0	74.0	19.0	Complied

Results: Static Mode / 2DH5 / SISO / Core 1

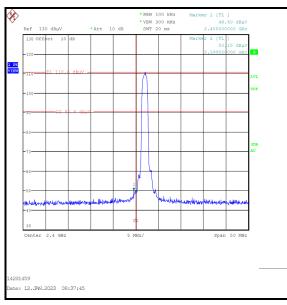
Frequency	Antenna	Average Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBµV/m)	(dB)	
2483.5	Horizontal	35.9**	54.0	18.1	Complied

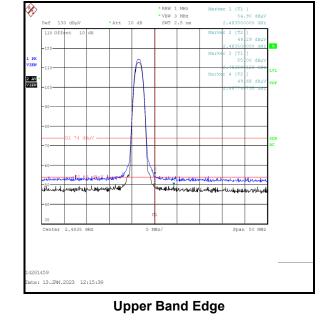
Results: 2310 MHz to 2390 MHz Restricted Band / Peak

Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2388.846	Horizontal	53.8	74.0	20.2	Complied

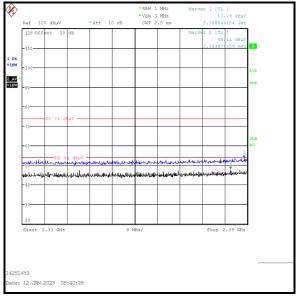
Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2383.974	Horizontal	48.1	54.0	5.9	Complied

Results: Static Mode / 2DH5 / SISO / Core 1





Lower Band Edge



2310 MHz to 2390 MHz Restricted Band

Frequency (MHz)	Antenna Polarity	Peak Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2399.800	Horizontal	50.1	94.8*	44.7	Complied
2400.0	Horizontal	46.2	94.8*	48.6	Complied
2483.5	Horizontal	53.9	74.0	20.1	Complied
2483.740	Horizontal	55.4	74.0	18.6	Complied

Results: Hopping Mode / 2DH5 / SISO / Core 1

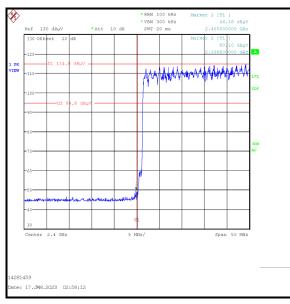
Frequency	Antenna	Average Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBµV/m)	(dB)	
2483.5	Horizontal	34.9**	54.0	19.1	Complied

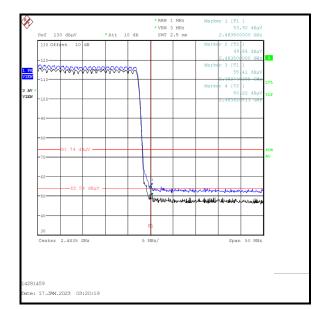
Results: 2310 MHz to 2390 MHz Restricted Band / Peak

Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2376.923	Horizontal	53.8	74.0	20.2	Complied

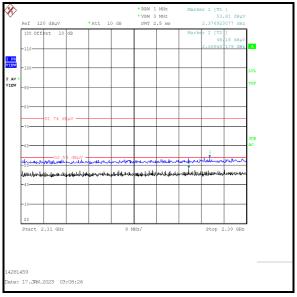
Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2369.487	Horizontal	48.2	54.0	5.8	Complied

Results: Hopping Mode / 2DH5 / SISO / Core 1





Upper Band Edge



2310 MHz to 2390 MHz Restricted Band

Transmitter Band Edge Radiated Emissions (continued)

Frequency (MHz)	Antenna Polarity	Peak Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2399.900	Horizontal	49.5	90.2*	40.7	Complied
2400.0	Horizontal	49.1	90.2*	41.1	Complied
2483.5	Horizontal	56.1	74.0	17.9	Complied
2483.821	Horizontal	56.3	74.0	17.7	Complied

Results: Static Mode / 3DH5 / SISO / Core 1

Frequency	Antenna	Average Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBµV/m)	(dB)	
2483.5	Horizontal	37.1**	54.0	16.9	Complied

Results: 2310 MHz to 2390 MHz Restricted Band / Peak

Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBµV/m)	(dBµV/m)	(dB)	
2387.949	Horizontal	54.2	74.0	19.8	Complied

Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2387.949	Horizontal	48.6	54.0	5.4	Complied

Marker 1 [T1] 56.08 dBµV 2.483500000 GHz

4 web

Span 50 MHz

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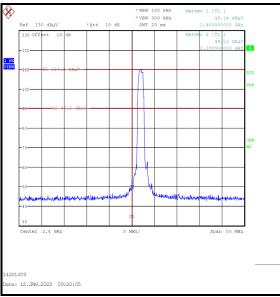
dB

* RBW 1 MHz * VBW 3 MHz SWT 2.5 ms

• Att 10 df

Transmitter Band Edge Radiated Emissions (continued)

Results: Static Mode / 3DH5 / SISO / Core 1



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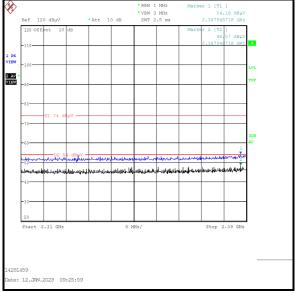
2 AV VIEW

130 dBµV

30 Offs

Upper Band Edge

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2310 MHz to 2390 MHz Restricted Band

Transmitter Band Edge Radiated Emissions (continued)

Frequency (MHz)	Antenna Polarity	Peak Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2399.750	Horizontal	49.1	94.0*	44.9	Complied
2400.0	Horizontal	46.0	94.0*	48.0	Complied
2483.5	Horizontal	55.1	74.0	18.9	Complied
2486.144	Horizontal	55.9	74.0	18.1	Complied

Results: Hopping Mode / 3DH5 / SISO / Core 1

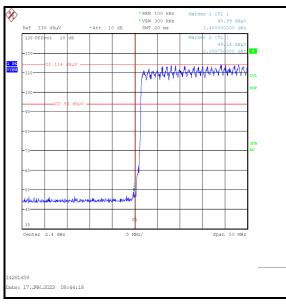
Frequency (MHz)	Antenna Polarity	Average Level (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Result
2483.5	Horizontal	36.1**	54.0	17.9	Complied

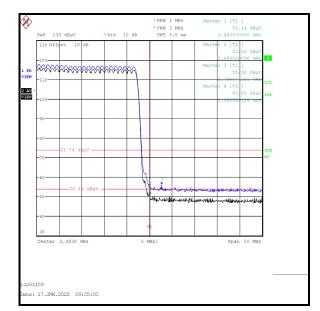
Results: 2310 MHz to 2390 MHz Restricted Band / Peak

Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2388.205	Horizontal	53.3	74.0	20.7	Complied

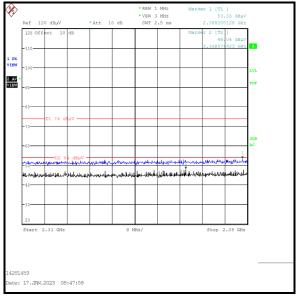
Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2368.077	Horizontal	48.0	54.0	6.0	Complied

Results: Hopping Mode / 3DH5 / SISO / Core 1





Upper Band Edge



2310 MHz to 2390 MHz Restricted Band

Transmitter Band Edge Radiated Emissions (continued)

Results: Static Mode / 2DH5 / Beamforming / Core 0 + Core 1

Frequency (MHz)	Antenna Polarity	Peak Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2399.950	Horizontal	51.1	92.5*	41.4	Complied
2400.0	Horizontal	49.9	92.5*	42.6	Complied
2483.5	Horizontal	56.4	74.0	17.6	Complied

Frequency	Antenna	Average Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBµV/m)	(dB)	
2483.5	Horizontal	37.4**	54.0	16.6	Complied

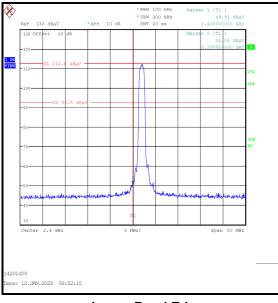
Results: 2310 MHz to 2390 MHz Restricted Band / Peak

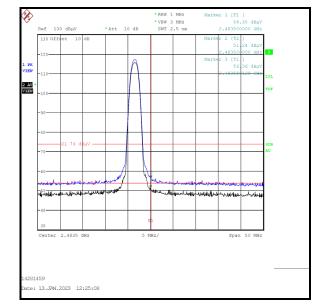
Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBµV/m)	(dBµV/m)	(dB)	
2385.256	Horizontal	53.8	74.0	20.2	Complied

Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBµV/m)	(dBµV/m)	(dB)	
2387.949	Horizontal	47.7	54.0	6.3	Complied

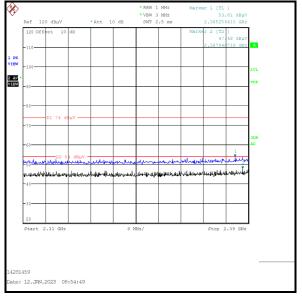
Transmitter Band Edge Radiated Emissions (continued)

Results: Static Mode / 2DH5 / Beamforming / Core 0 + Core 1





Upper Band Edge



2310 MHz to 2390 MHz Restricted Band

Transmitter Band Edge Radiated Emissions (continued)

Results: Hopping Mode / 2DH5 / Beamforming / Core 0 + Core 1

Frequency (MHz)	Antenna Polarity	Peak Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2399.500	Horizontal	49.2	95.7*	46.5	Complied
2400.0	Horizontal	48.6	95.7*	47.1	Complied
2483.5	Horizontal	56.4	74.0	17.6	Complied

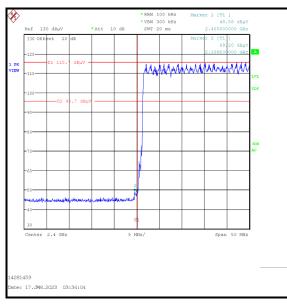
Frequency	Antenna	Average Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBµV/m)	(dB)	
2483.5	Horizontal	37.4**	54.0	16.6	Complied

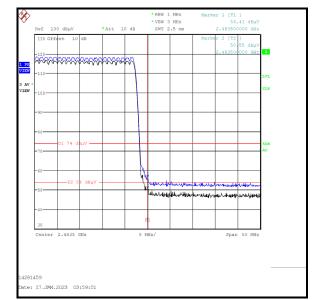
Results: 2310 MHz to 2390 MHz Restricted Band / Peak

Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBµV/m)	(dBµV/m)	(dB)	
2388.205	Horizontal	54.3	74.0	19.7	Complied

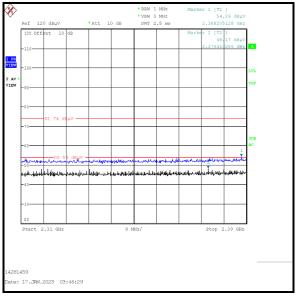
Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBµV/m)	(dBµV/m)	(dB)	
2376.410	Horizontal	48.2	54.0	5.8	Complied

Results: Hopping Mode / 2DH5 / Beamforming / Core 0 + Core 1





Upper Band Edge



2310 MHz to 2390 MHz Restricted Band

Transmitter Band Edge Radiated Emissions (continued)

Results: Static Mode / 3DH5 / Beamforming / Core 0 + Core 1

Frequency (MHz)	Antenna Polarity	Peak Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2399.650	Horizontal	50.1	92.5*	42.4	Complied
2400.0	Horizontal	49.0	92.5*	43.5	Complied
2483.5	Horizontal	57.4	74.0	16.6	Complied

Frequency	Antenna	Average Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBµV/m)	(dB)	
2483.5	Horizontal	38.4**	54.0	15.6	Complied

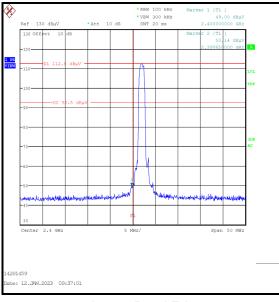
Results: 2310 MHz to 2390 MHz Restricted Band / Peak

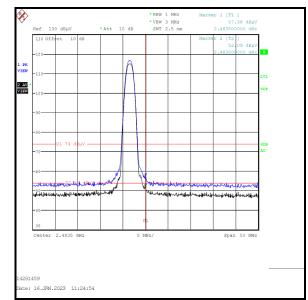
Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBµV/m)	(dBµV/m)	(dB)	
2377.436	Horizontal	54.2	74.0	19.8	Complied

Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBµV/m)	(dBµV/m)	(dB)	
2383.974	Horizontal	47.8	54.0	6.2	Complied

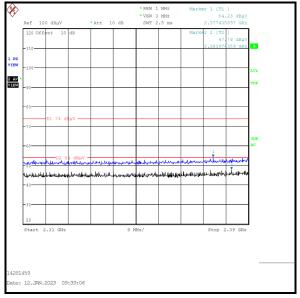
Transmitter Band Edge Radiated Emissions (continued)

Results: Static Mode / 3DH5 / Beamforming / Core 0 + Core 1





Lower Band Edge



2310 MHz to 2390 MHz Restricted Band



Transmitter Band Edge Radiated Emissions (continued)

Results: Hopping Mode / 3DH5 / Beamforming / Core 0 + Core 1

Frequency (MHz)	Antenna Polarity	Peak Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2399.800	Horizontal	49.5	95.5*	46.0	Complied
2400.0	Horizontal	49.1	95.5*	46.4	Complied
2483.5	Horizontal	55.3	74.0	18.7	Complied
2483.580	Horizontal	58.7	74.0	15.3	Complied

Frequency	Antenna	Average Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBµV/m)	(dB)	
2483.5	Horizontal	36.3**	54.0	17.7	Complied

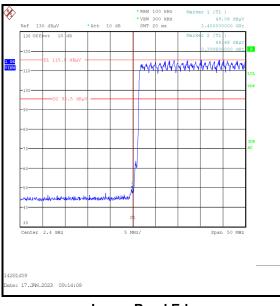
Results: 2310 MHz to 2390 MHz Restricted Band / Peak

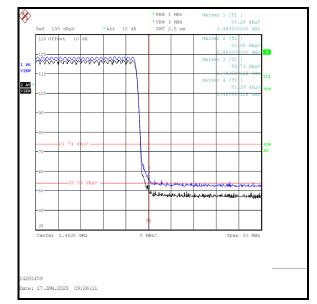
Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBµV/m)	(dBµV/m)	(dB)	
2343.205	Horizontal	54.1	74.0	19.9	Complied

Frequency (MHz)	Antenna Polarity	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result
2366.538	Horizontal	48.5	54.0	5.5	Complied

Transmitter Band Edge Radiated Emissions (continued)

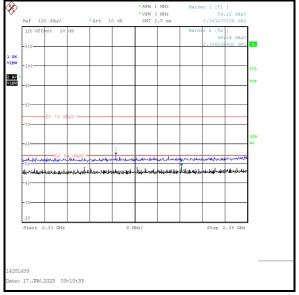
Results: Hopping Mode / 3DH5 / Beamforming / Core 0 + Core 1





Upper Band Edge





2310 MHz to 2390 MHz Restricted Band

Appendix 1

FHSS Duty Cycle Correction Factor Calculation

In accordance with KDB 558074 section 9 and 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.

For 2DH5 and 3DH5 *Bluetooth* signals, the following values were taken from the *Bluetooth* Core Specification V5.0 to give the worst case correction:

Modulation	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:

2DH5 and 3DH5: 20*Log(11.25 ms / 100 ms) = 19.0 dB

--- END OF REPORT ---