

FCC - TEST REPORT

Report Number	:	64.790.25.80014.01	Date of Issue:	2025-12-24
Model/HVIN	:	538-x (-x=blank, -1, -2, -3, -4, -5, -6, -7, -8, -9, -10, -11, -12, indicates different colour)		
Product Type	:	Electric Breast Pump		
Applicant	:	Shantou Huihengqi Electronic Technology Co., Ltd.		
Address	:	501, 5/F, Block C, 301, 3/F, Block A, 14A Industrial Zone, Longhu District, 515000 Shantou, Guangdong, PEOPLE'S REPUBLIC OF CHINA		
Manufacturer	:	Shantou Huihengqi Electronic Technology Co., Ltd.		
Address	:	501, 5/F, Block C, 301, 3/F, Block A, 14A Industrial Zone, Longhu District, 515000 Shantou, Guangdong, PEOPLE'S REPUBLIC OF CHINA		
Factory	:	Shantou Huihengqi Electronic Technology Co., Ltd.		
Address	:	501, 5/F, Block C, 301, 3/F, Block A, 14A Industrial Zone, Longhu District, 515000 Shantou, Guangdong, PEOPLE'S REPUBLIC OF CHINA		
Test Result	:	☒ Positive ☐ Negative		
Total pages including Appendices	:	51		

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
5F & 8F East, Communication Building, No.163 Pingyun Road,
Huangpu Ave. West
Guangzhou 510656
P.R. China

Telephone: 86 20 3815 3415

FCC Registration No.: 141693

FCC Designation Number: CN1408

3 Description of the Equipment Under Test

Product:	Electric breast pump
Model no.:	538-x (-x=blank, -1, -2, -3, -4, -5, -6, -7, -8, -9, -10, -11, -12, indicates different colour)
FCC ID:	2BSODWBP538
Options and accessories:	NIL
Ratings:	DC 5V, 1.0A Battery type: DC 3.7V, 1100mAh Li-ion battery
RF Transmission Frequency:	2402MHz-2480MHz (for BLE-1Mbps)
No. of Operated Channel:	40
Modulation:	GFSK
Antenna Type:	PCB antenna
Antenna Gain:	0.5dBi
Description of the EUT:	The EUT is an Electric breast pump, supports BLE-1Mbps function, operates at 2402 – 2480MHz.

NOTE 1: The above EUT's information is declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2024 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to KDB 558074 D01 15.247 Meas Guidance v05r02 Measurement Guidance and ANSI C63.10-2020.

5 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C						
Test Condition		Test Site	Test Result			Test Environment
			Pass	Fail	N/A	
§15.207	Conducted emission AC power port	Site 1	☒	☐	☐	T: 22.4°C H: 51.6%
§15.247 (b) (3)	Conducted peak output power	Site 1	☒	☐	☐	T: 22.4°C H: 51.6%
§15.247(a)(2)	6dB bandwidth and 99% Occupied Bandwidth	Site 1	☒	☐	☐	T: 24.1°C H: 52.3%
§15.247(e)	Power spectral density	Site 1	☒	☐	☐	T: 22.4°C H: 51.6%
§15.247(d)	Spurious RF conducted emissions	Site 1	☒	☐	☐	T: 22.4°C H: 51.6%
§15.247(d)	Band edge	Site 1	☒	☐	☐	T: 22.4°C H: 51.6%
§15.247(d) & §15.209 & §15.205	Spurious radiated emissions for transmitter	Site 1	☒	☐	☐	T: 24.6°C H: 43.7%
§15.203	Antenna requirement	See note 2	☒	☐	☐	--

Note 1: N/A=Not Applicable.

Note 2: The EUT use a PCB antenna, which gain of antenna is 0.5dBi. In accordance to §15.203, it is considered sufficiently to comply with the provisions of this section.

Note 3: T=Temperature, H=Humidity

6 General Remarks

This submittal(s) (test report) is intended for FCC ID: 2BSODWBP538 complies with Section 15.207, 15.205, 15.209, 15.247 of the FCC Part 15, Subpart C rules.

The models 538-x are identical except the appearance of colour.

So the model 538 were selected to perform full test.

SUMMARY:

All tests according to the regulations cited on page 5 were:

■ - Performed

□ - **Not** Performed

The Equipment under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: 2025-05-27

Testing Start Date: 2025-05-30

Testing End Date: 2025-06-19

– TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch –

Reviewed by:

Prepared by:

Tested by:



Mike Zhuo
Senior Project Manager

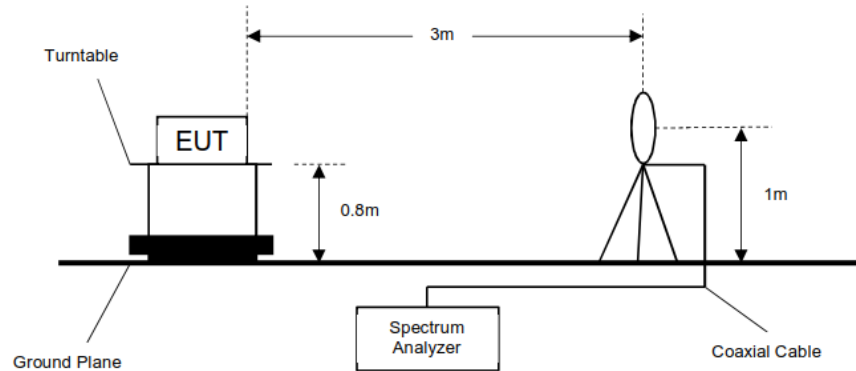
Kevin Ouyang
Project Manager

Joe Chi
Test Engineer

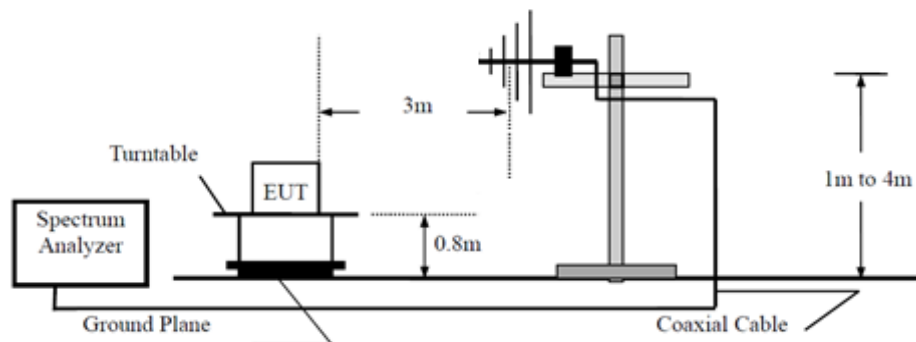
7 Test Setups

7.1 Radiated test setups

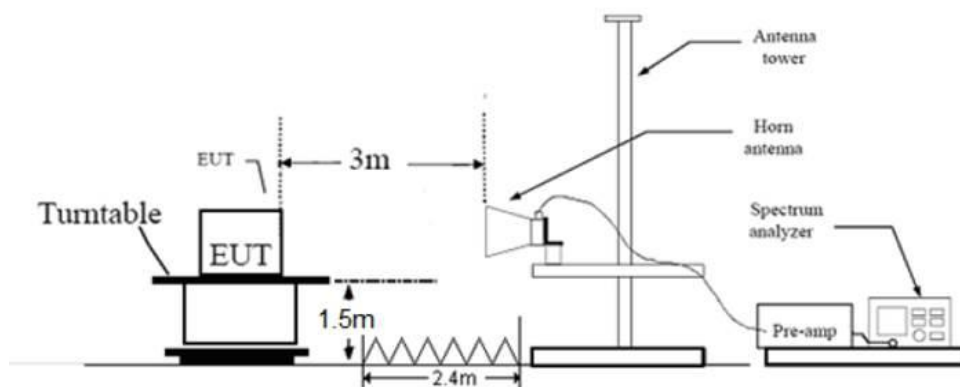
9kHz - 30MHz



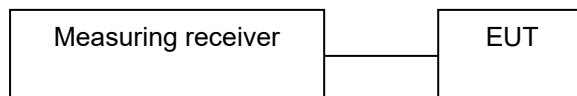
30MHz-1GHz



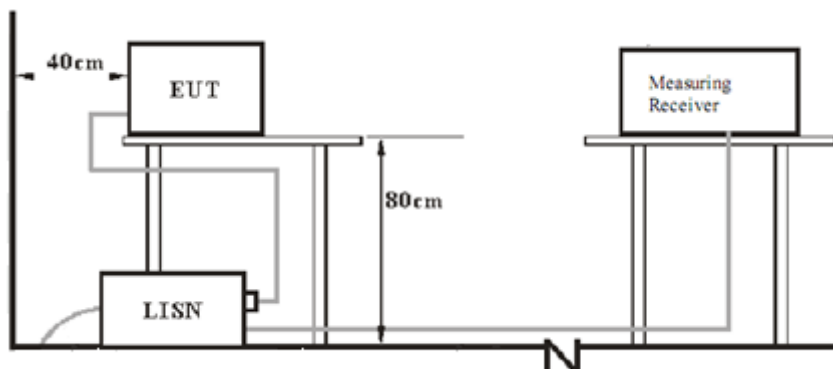
Above 1GHz



7.2 Conducted RF test setups



7.3 AC Power Line Conducted Emission test setups



8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	REMARK
Notebook	LENOVO	X220	---

Test software information:

Test Software Version	MacroGiga Test 2.9	
Modulation	Setting TX Power	Packet Type
GFSK	3	Pn9

The system was configured to non-hopping mode, testing channel 0, 19, 39.

9 Technical Requirement

9.1 Conducted Emission

Test Method

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. Both sides of AC line were checked for maximum conducted interference.
6. The frequency range from 150 kHz to 30 MHz was searched.
7. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

Limit

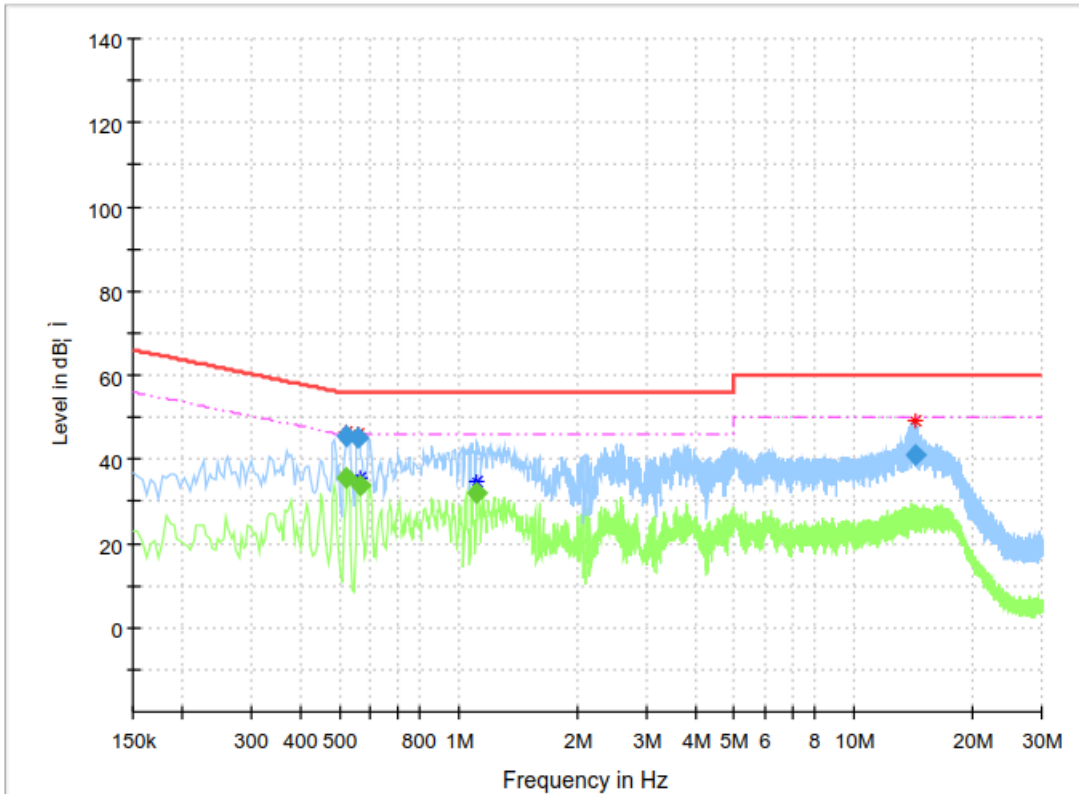
According to §15.207, conducted emissions limit as below:

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Remark: “*” Decreasing linearly with logarithm of the frequency

Conducted Emission

Product Type : Electric breast pump
 M/N : 538
 Operating Condition : Charging+ BLE communication mode
 Test Specification : L
 Comment : AC 120V/60Hz

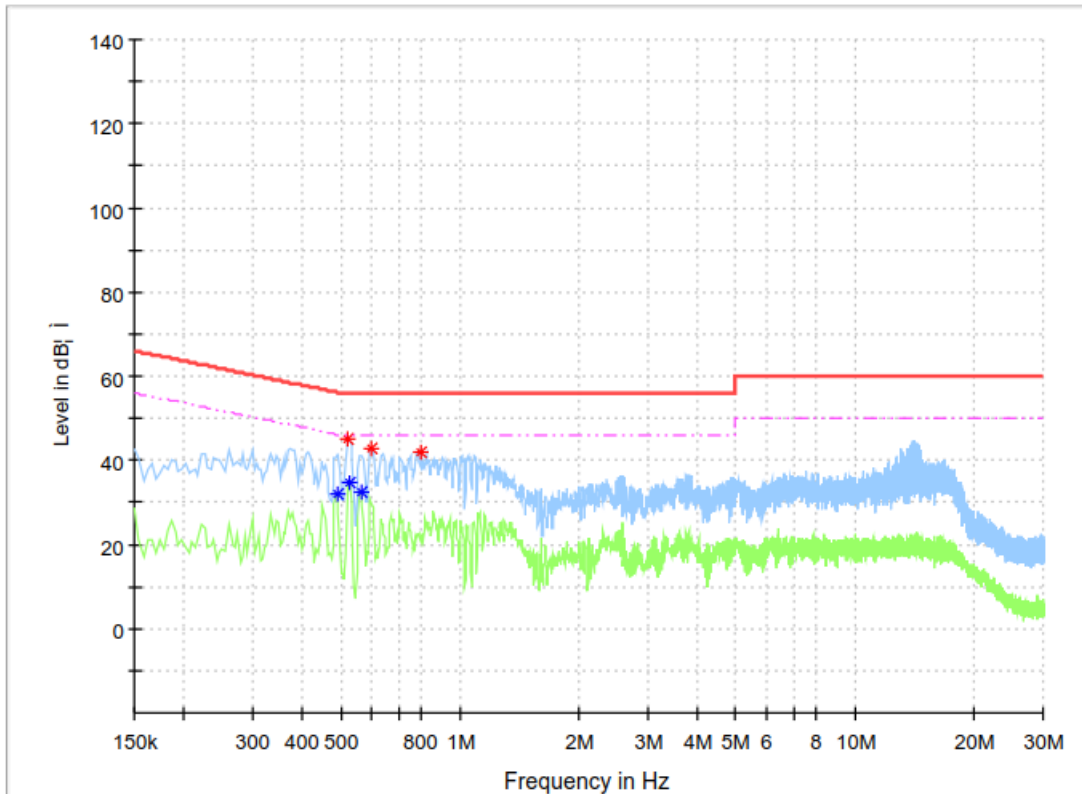


Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.522000	---	35.47	46.00	10.53	L1
0.522000	45.38	---	56.00	10.62	L1
0.558000	45.09	---	56.00	10.91	L1
0.562000	---	33.61	46.00	12.39	L1
1.118000	---	31.96	46.00	14.04	L1
14.318000	40.96	---	60.00	19.04	L1

Conducted Emission

Product Type : Electric breast pump
 M/N : 538
 Operating Condition : Charging+ BLE communication mode
 Test Specification : N
 Comment : AC 120V/60Hz



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line
0.490000	---	31.88	46.17	14.29	N
0.522000	45.17	---	56.00	10.83	N
0.526000	---	34.60	46.00	11.40	N
0.562000	---	32.36	46.00	13.64	N
0.598000	42.65	---	56.00	13.35	N
0.798000	42.03	---	56.00	13.97	N

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line
---	---	---	---	---	---

9.2 Conducted Output Power

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Use the following test receiver settings:
Span = approximately 5 times the 6dB bandwidth, centered on a channel need to test,
RBW > the 6dB bandwidth of the emission being measured, VBW $\geq$ 3RBW,
Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power and record the results in the test report.
5. Repeat above procedures until all frequencies measured were complete.

Limit

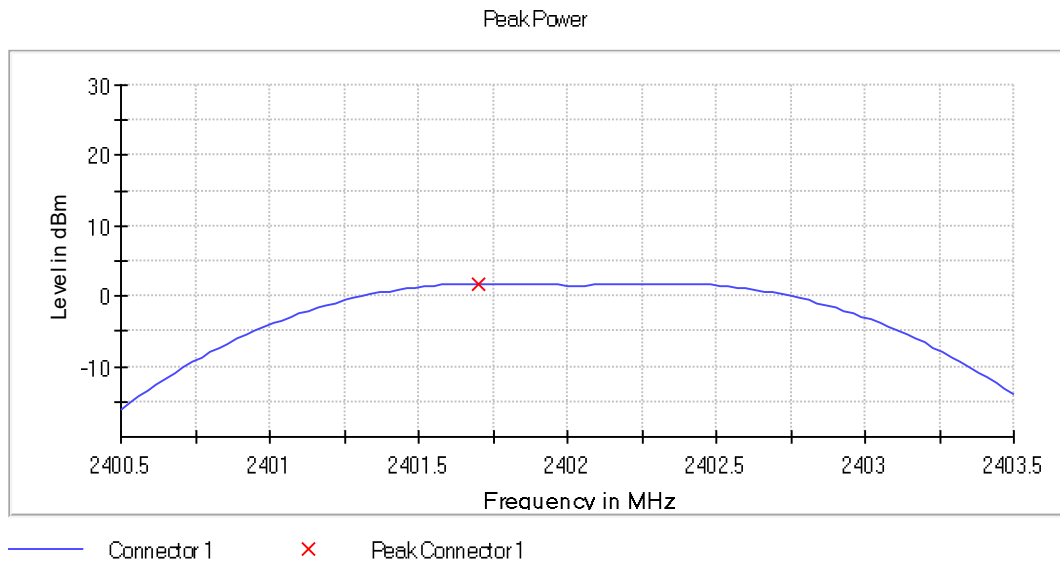
According to §15.247 (b) (3), conducted output power limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤ 1	≤ 30

Test Results

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	1.8	≤ 30	Pass
		2440	2.0	≤ 30	Pass
		2480	1.7	≤ 30	Pass

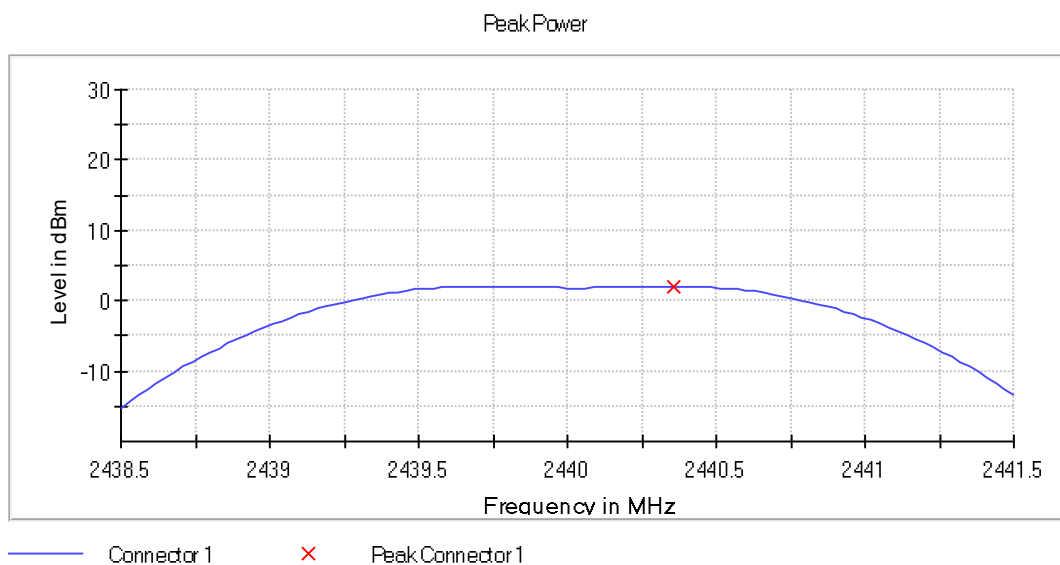
1M_LCH_2402MHz_Ant1_NTNV



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40050 GHz	2.40050 GHz
Stop Frequency	2.40350 GHz	2.40350 GHz
Span	3.000 MHz	3.000 MHz
RBW	1.000 MHz	≥ 980.001 kHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	101	~ 101
SweepTime	4.210 μ s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak

1M_MCH_2440MHz_Ant1_NTNV

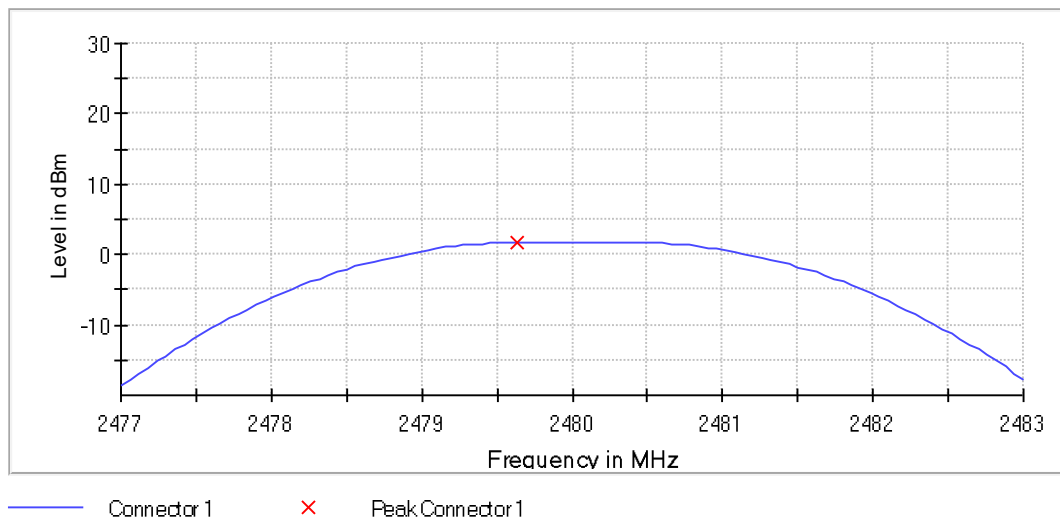


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43850 GHz	2.43850 GHz
Stop Frequency	2.44150 GHz	2.44150 GHz
Span	3.000 MHz	3.000 MHz
RBW	1.000 MHz	≥ 960.001 kHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	101	~ 101
SweepTime	4.210 μ s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak

1M_HCH_2480MHz_Ant1_NTNV

Peak Power



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47700 GHz	2.47700 GHz
Stop Frequency	2.48300 GHz	2.48300 GHz
Span	6.000 MHz	6.000 MHz
RBW	2.000 MHz	≥ 1.000 MHz
VBW	10.000 MHz	≥ 6.000 MHz
SweepPoints	101	~ 101
SweepTime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak

9.3 6 dB Bandwidth

Test Method for 6 dB Bandwidth

1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
RBW=1% to 5% of the occupied bandwidth but not less than 100kHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Use the automatic bandwidth measurement capability of an instrument, use the X dB bandwidth mode with X set to 6 dB.
5. Allow the trace to stabilize, record the 6 dB Bandwidth value.

Limit

6dB bandwidth Limit [kHz]

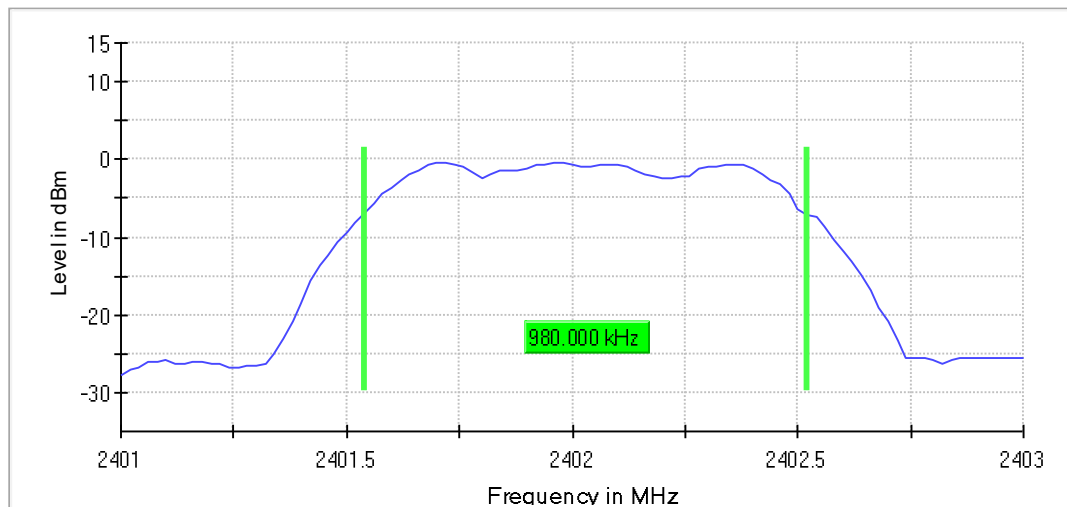
≥ 500

Test result for 6 dB Bandwidth

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.980	≥ 0.5	Pass
		2440	1	0.960	≥ 0.5	Pass
		2480	1	1.000	≥ 0.5	Pass

1M_LCH_2402MHz_Ant1_NTNV

6 dB Bandwidth

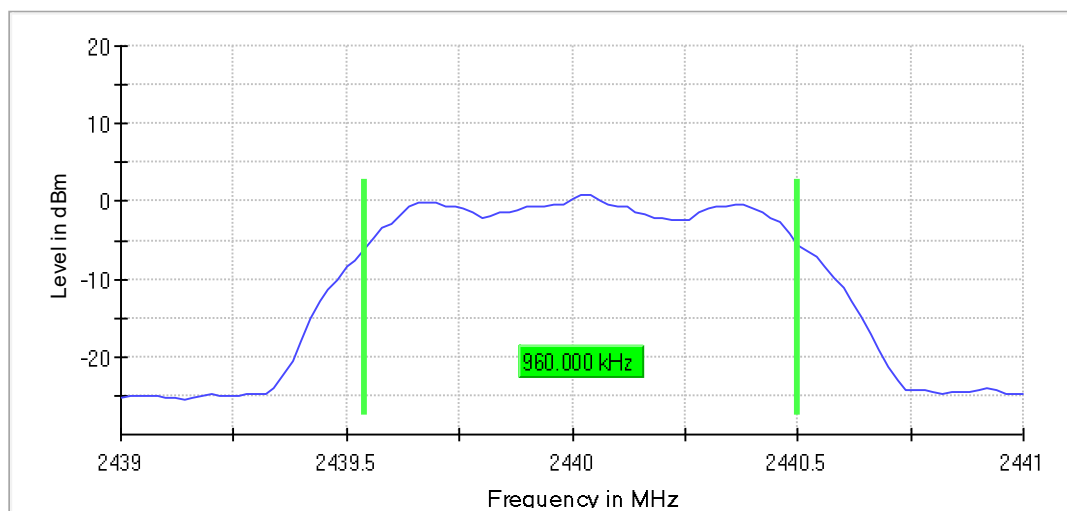


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 40
SweepTime	41.830 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak

1M_MCH_2440MHz_Ant1_NTNV

6 dB Bandwidth



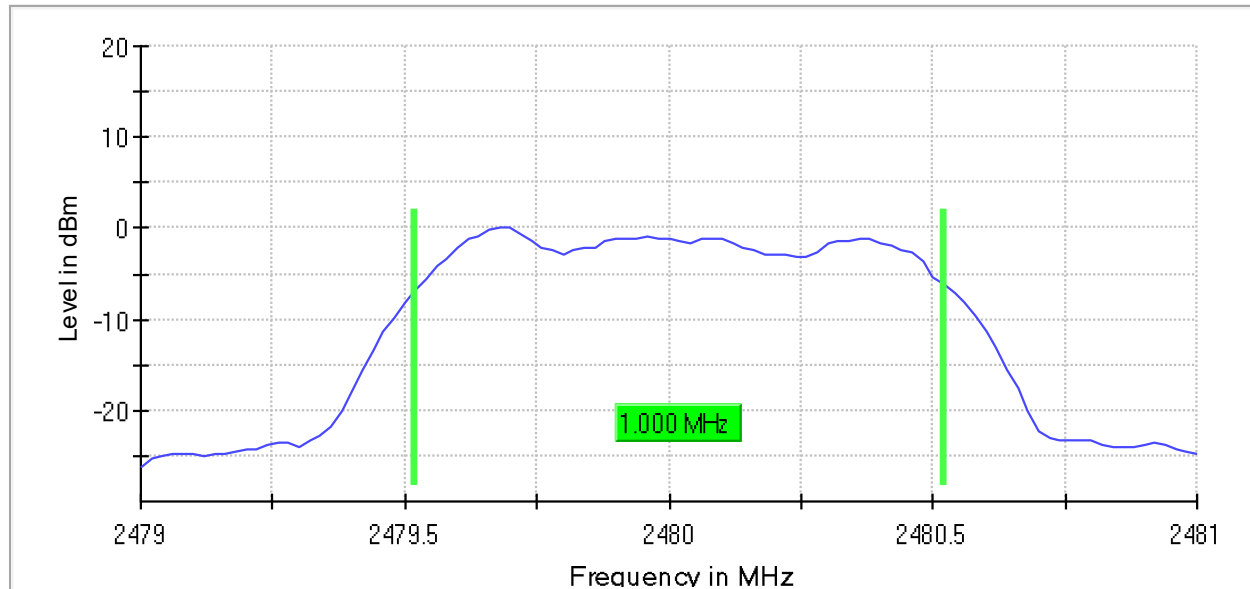
Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43900 GHz	2.43900 GHz
Stop Frequency	2.44100 GHz	2.44100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz

SweepPoints	101	~ 40
SweepTime	41.830 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak

1M HCH 2480MHz Ant1 NTN

6 dB Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 40
SweepTime	41.830 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak

9.4 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
4. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW $\geq$ 3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
5. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
6. Repeat above procedures until other frequencies measured were completed.

Limit

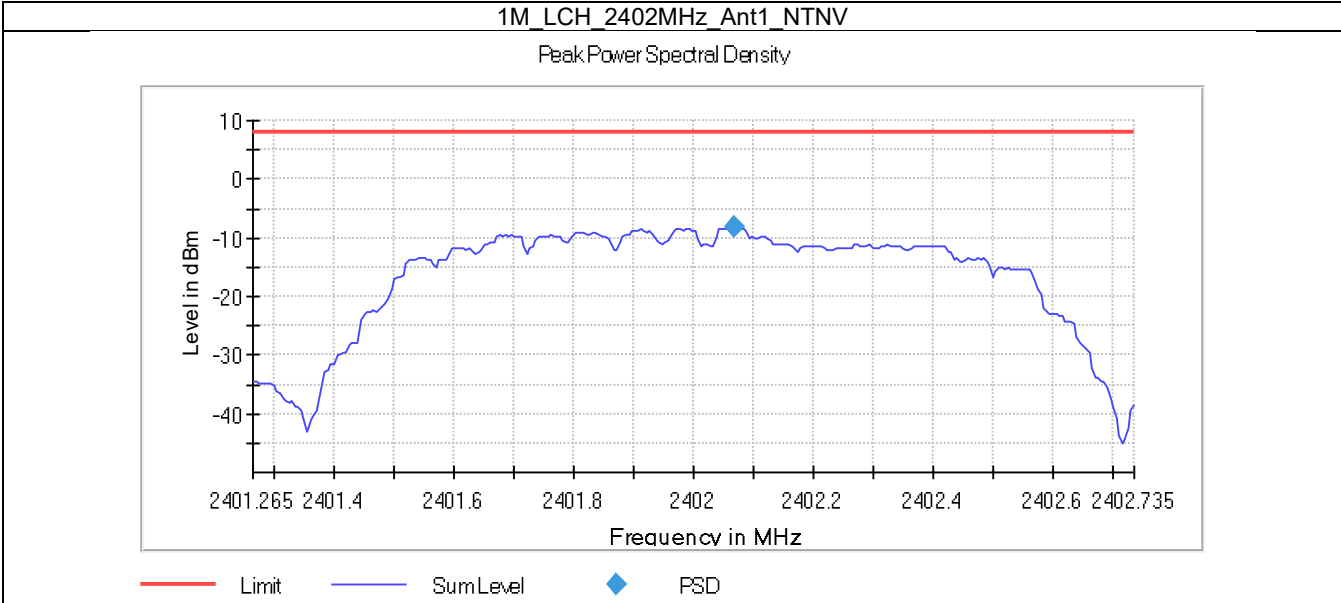
Limit [dBm/3kHz]

≤ 8

Test Results

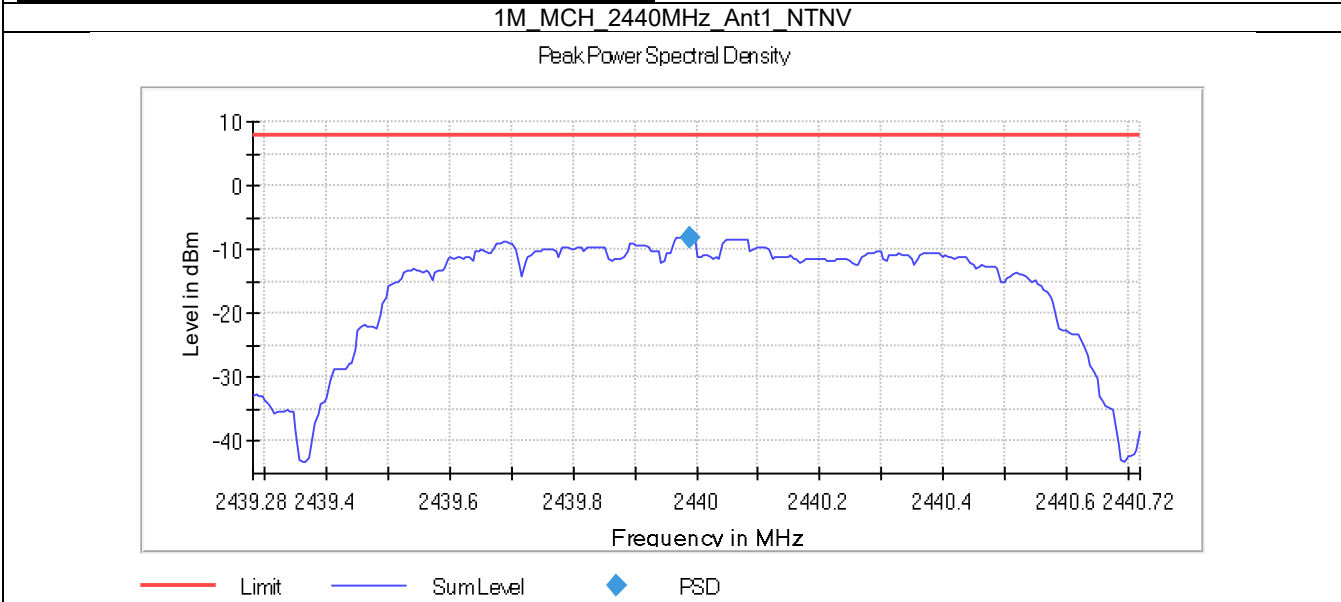
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/10kHz)	Correction factor (dB)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1		ANT1	Limit	
1M	SISO	2402	-8.180	5.23	-13.410	≤ 8	Pass
		2440	-8.084	5.23	-13.314	≤ 8	Pass
		2480	-8.883	5.23	-14.113	≤ 8	Pass

Note: Maximum PSD(dBm/3kHz)= Maximum PSD(dBm/10kHz)-10log (10/3)= Maximum PSD (dBm/10kHz)- 5.23



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40127 GHz	2.40127 GHz
Stop Frequency	2.40274 GHz	2.40274 GHz
Span	1.470 MHz	1.470 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	294	~ 294
SweepTime	1.470 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak

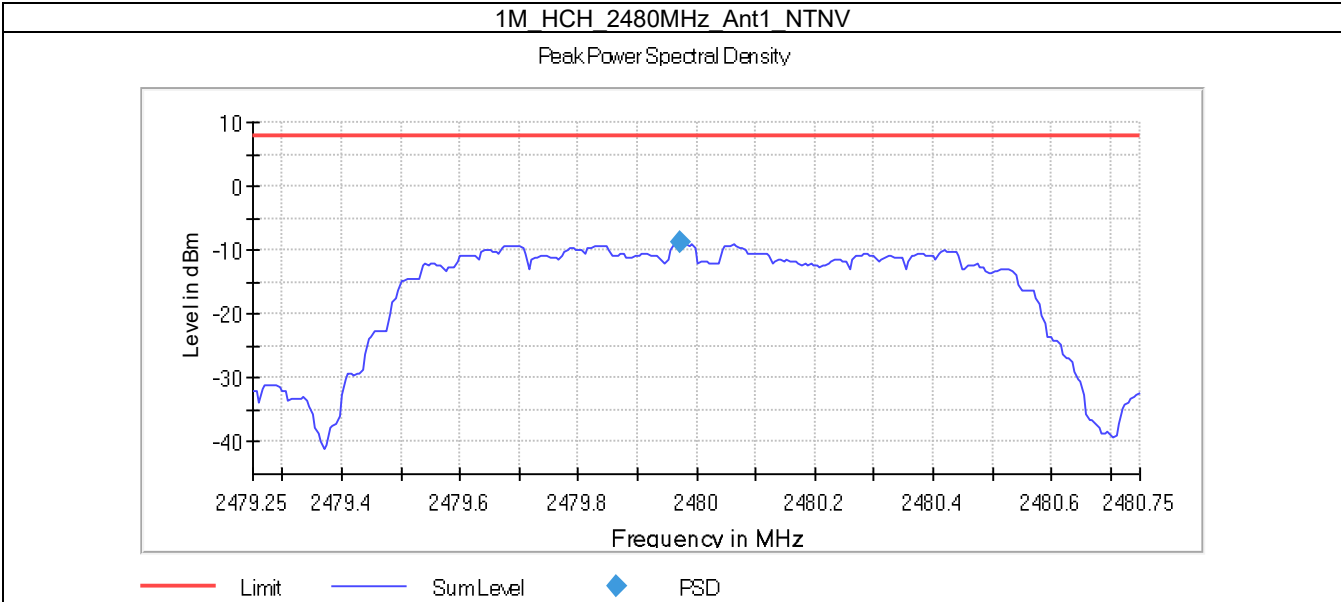


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43928 GHz	2.43928 GHz
Stop Frequency	2.44072 GHz	2.44072 GHz
Span	1.440 MHz	1.440 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz



SweepPoints	288	~ 288
SweepTime	1.440 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47925 GHz	2.47925 GHz
Stop Frequency	2.48075 GHz	2.48075 GHz
Span	1.500 MHz	1.500 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	300	~ 300
SweepTime	1.500 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak

9.5 Spurious RF conducted emissions

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
RBW = 100 kHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
5. The level displayed must comply with the limit specified in this Section. Submit these plots.
6. Repeat above procedures until all frequencies measured were complete.

Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

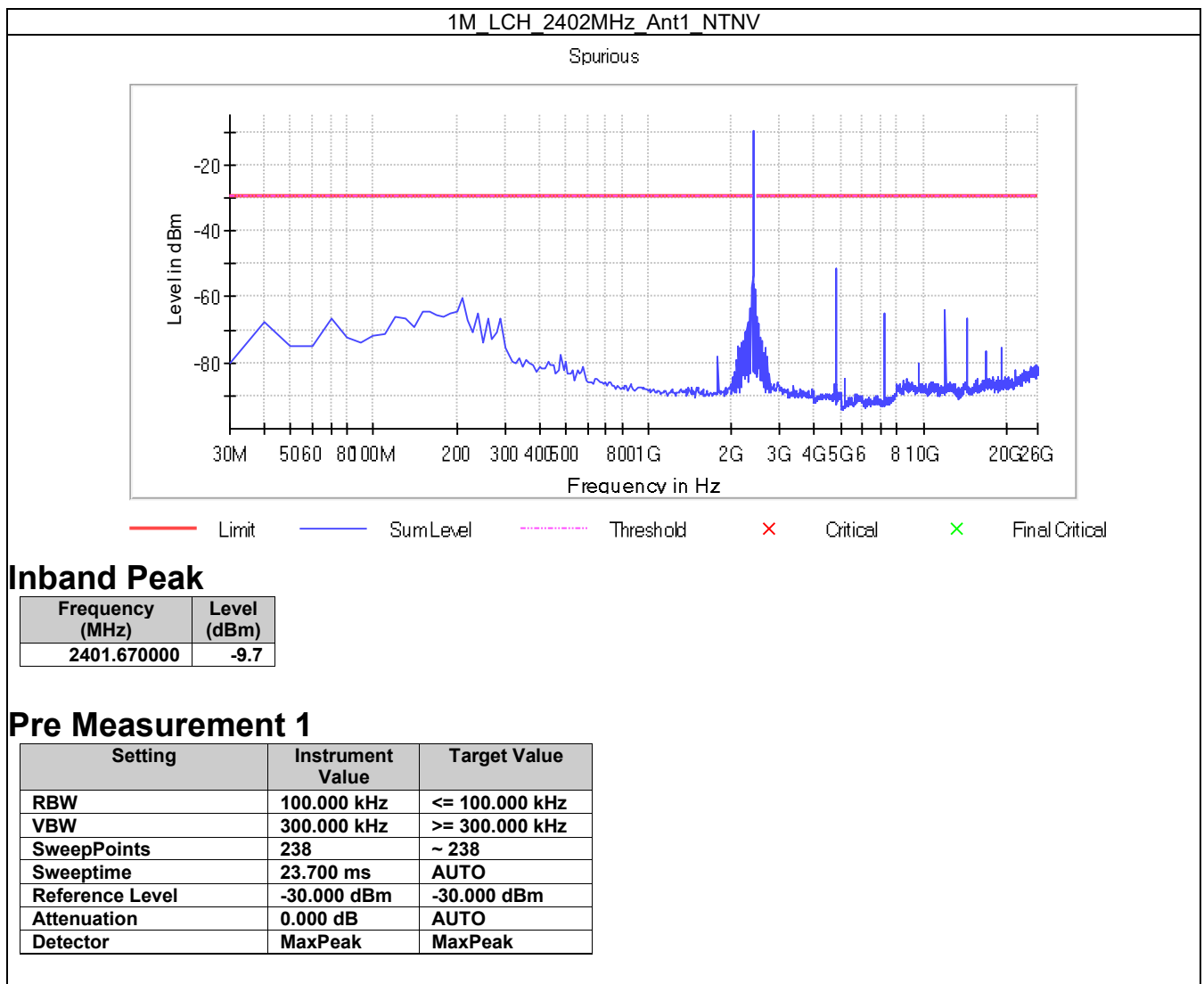
Test Result

Reference level:

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-9.7
		2440	1	-10.3
		2480	1	-11.9
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.				

Conducted spurious emissions:

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-9.7	-29.7	Pass
		2440	1	-10.3	-30.3	Pass
		2480	1	-11.9	-31.9	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.						

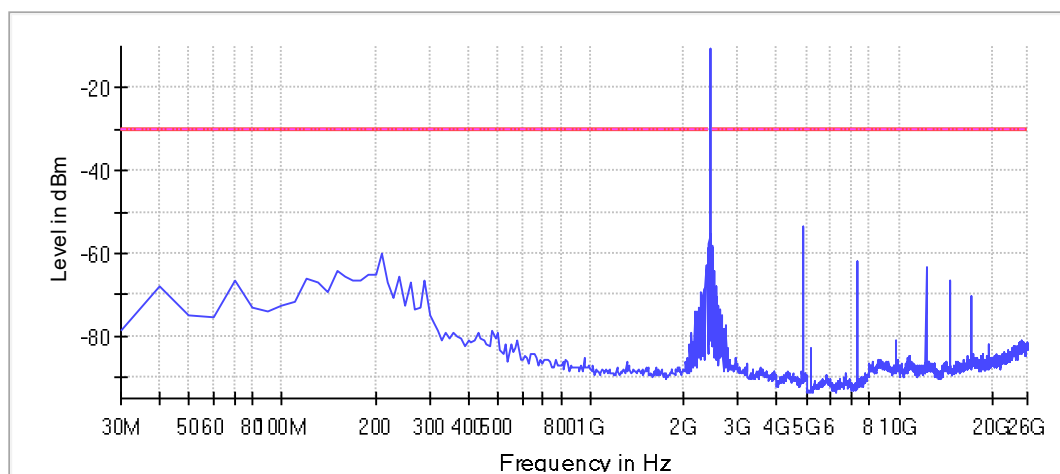


Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4803.154762	-51.3	21.6	-29.7
2390.000000	-53.6	23.9	-29.7
2380.000000	-57.2	27.5	-29.7
2360.000000	-59.2	29.5	-29.7
2370.000000	-59.5	29.8	-29.7
210.000000	-60.2	30.4	-29.7
2330.000000	-63.2	33.5	-29.7
12012.081845	-64.1	34.4	-29.7
200.000000	-64.5	34.8	-29.7
150.000000	-64.6	34.8	-29.7
160.000000	-64.8	35.0	-29.7
240.000000	-65.0	35.3	-29.7
7202.797619	-65.1	35.4	-29.7
190.000000	-65.2	35.5	-29.7
170.000000	-65.7	36.0	-29.7

1M_MCH_2440MHz_Ant1_NTNV

Spurious



— Limit — SumLevel - - - Threshold × Critical × Final Critical

Inband Peak

Frequency (MHz)	Level (dBm)
2440.080000	-10.3

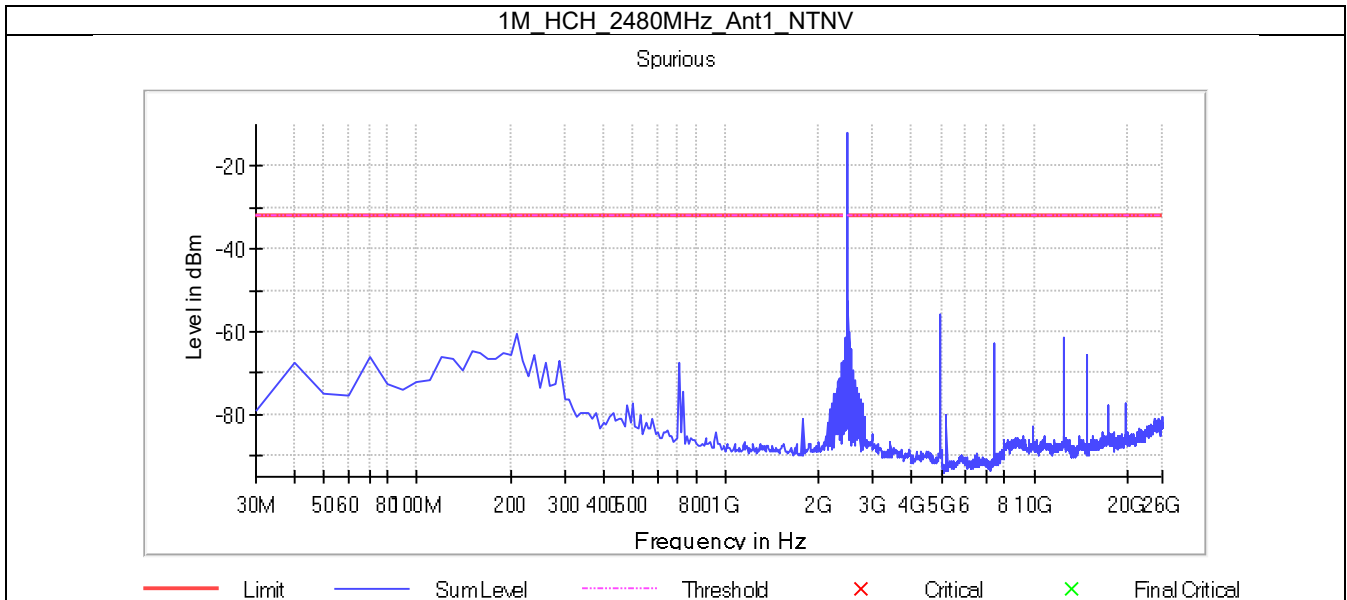
Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
4873.144345	-53.5	23.2	-30.3
210.000000	-60.1	29.8	-30.3
7322.779762	-61.8	31.5	-30.3
2360.000000	-62.8	32.5	-30.3
12202.053571	-63.1	32.8	-30.3
2370.000000	-63.2	32.9	-30.3
150.000000	-64.1	33.8	-30.3
7312.781250	-64.1	33.8	-30.3

2513.495536	-64.1	33.8	-30.3
2380.000000	-64.8	34.5	-30.3
190.000000	-65.1	34.8	-30.3
200.000000	-65.1	34.8	-30.3
240.000000	-65.6	35.3	-30.3
160.000000	-65.7	35.5	-30.3
120.000000	-65.9	35.6	-30.3



Inband Peak

Frequency (MHz)	Level (dBm)
2480.995000	-11.9

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	238	~ 238
SweepTime	23.700 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2493.498512	-52.4	20.5	-31.9
4953.132440	-55.8	23.9	-31.9
2523.494048	-59.8	27.8	-31.9
210.000000	-60.3	28.4	-31.9
12402.023810	-61.2	29.3	-31.9
2503.497024	-62.7	30.8	-31.9
7432.763393	-63.0	31.0	-31.9
7442.761905	-63.1	31.1	-31.9
2553.489583	-64.1	32.2	-31.9
150.000000	-64.4	32.5	-31.9
160.000000	-64.9	33.0	-31.9
190.000000	-64.9	33.0	-31.9
200.000000	-65.4	33.4	-31.9
14881.654762	-65.5	33.6	-31.9
240.000000	-65.6	33.7	-31.9

9.6 Band edge testing

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize, use the peak and delta measurement to record the result.
5. The level displayed must comply with the limit specified in this Section.
6. Repeat above procedures until all frequencies measured were complete and submit all the plots.

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under § 15.247(b)(3), the attenuation required shall be 30 dB instead of 20 dB.

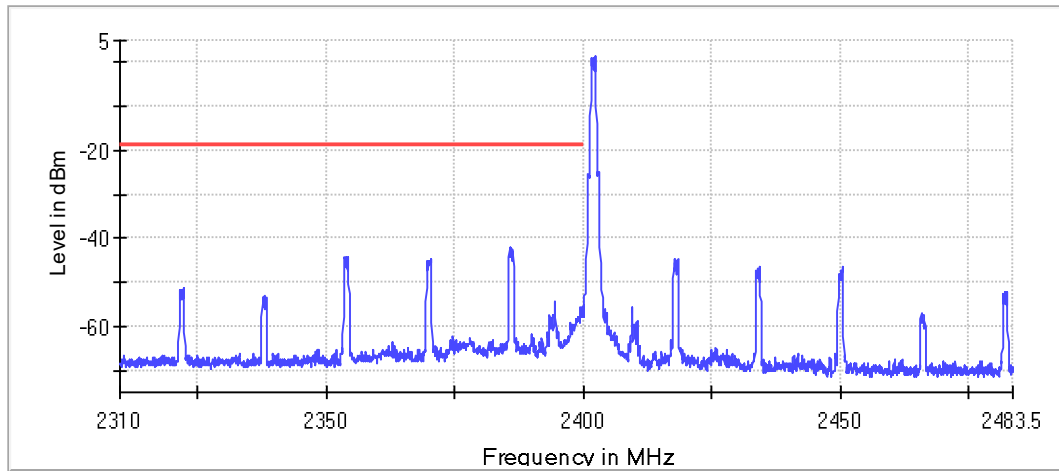
Frequency Range MHz	Limit (dBc)
30-25000	-20

Test result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	1.3	-18.7	Pass
		2480	1	1.3	-18.7	Pass

1M LCH 2402MHz Ant1 NTVN

Band Edge



— Limit — SumLevel × Fail

Inband Peak

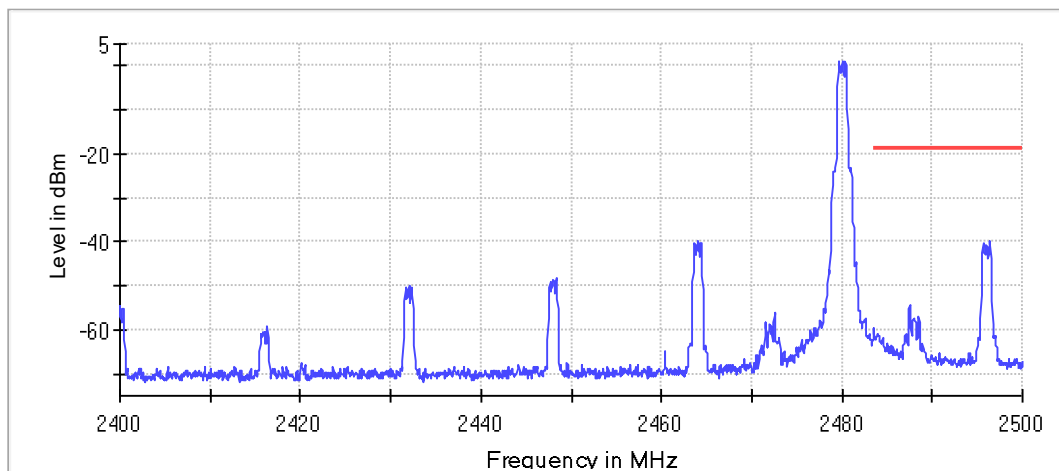
Frequency (MHz)	Level (dBm)
2402.301378	1.3

Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	2.31000 GHz	2.31000 GHz
Stop Frequency	2.40000 GHz	2.40000 GHz
Span	90.000 MHz	90.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
SweepTime	1.800 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak

1M HCH 2480MHz Ant1 NTVN

Band Edge



— Limit — SumLevel × Fail

Inband Peak

Frequency (MHz)	Level (dBm)
2480.398143	1.3

Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
SweepTime	1.670 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak

9.7 Spurious radiated emissions for transmitter

Test Method

1. The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. Use the following spectrum analyzer settings According to C63.10:
 - 1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 KHz to 120KHz, VBW ≥ RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.
 - 2) For Peak unwanted emissions Above 1GHz:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 1MHz, VBW ≥ RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.
 - 3) Procedures for average unwanted emissions measurements above 1000 MHz
 - a) RBW = 1MHz.
 - b) VBW \ [3 × RBW].
 - c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \ RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
 - d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
 - e) Sweep time = auto.
 - f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
 - g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

- 2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.
- 3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission(AV) at frequency above 1GHz.

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under § 15.247(b)(3), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a).

Frequency MHz	Field Strength $\mu\text{V/m}$	Field Strength $\text{dB}\mu\text{V/m}$	Detector	Measurement distance meters
0.009-0.490	2400/F(kHz)	48.5-13.8	AV	300
0.490-1.705	24000/F(kHz)	33.8-23.0	QP	30
1.705-30	30	29.5	QP	30
30-88	100	40	QP	3
88-216	150	43.5	QP	3
216-960	200	46	QP	3
960-1000	500	54	QP	3
Above 1000	500	54	AV	3
Above 1000	5000	74	PK	3

Note 1: Limit $3\text{m}(\text{dB}\mu\text{V/m}) = \text{Limit } 300\text{m}(\text{dB}\mu\text{V/m}) + 40\text{Log}(300\text{m}/3\text{m})$ (Below 30MHz)

Note 2: Limit $3\text{m}(\text{dB}\mu\text{V/m}) = \text{Limit } 30\text{m}(\text{dB}\mu\text{V/m}) + 40\text{Log}(30\text{m}/3\text{m})$ (Below 30MHz)

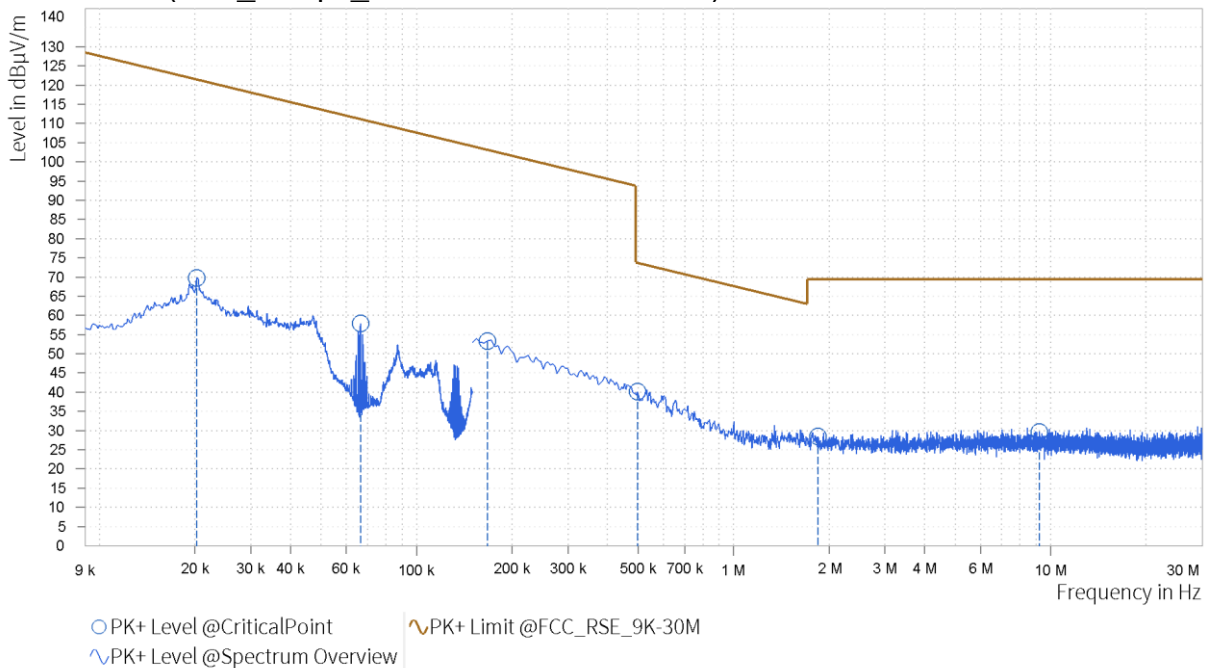
Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Transmitting spurious emission test result as below:

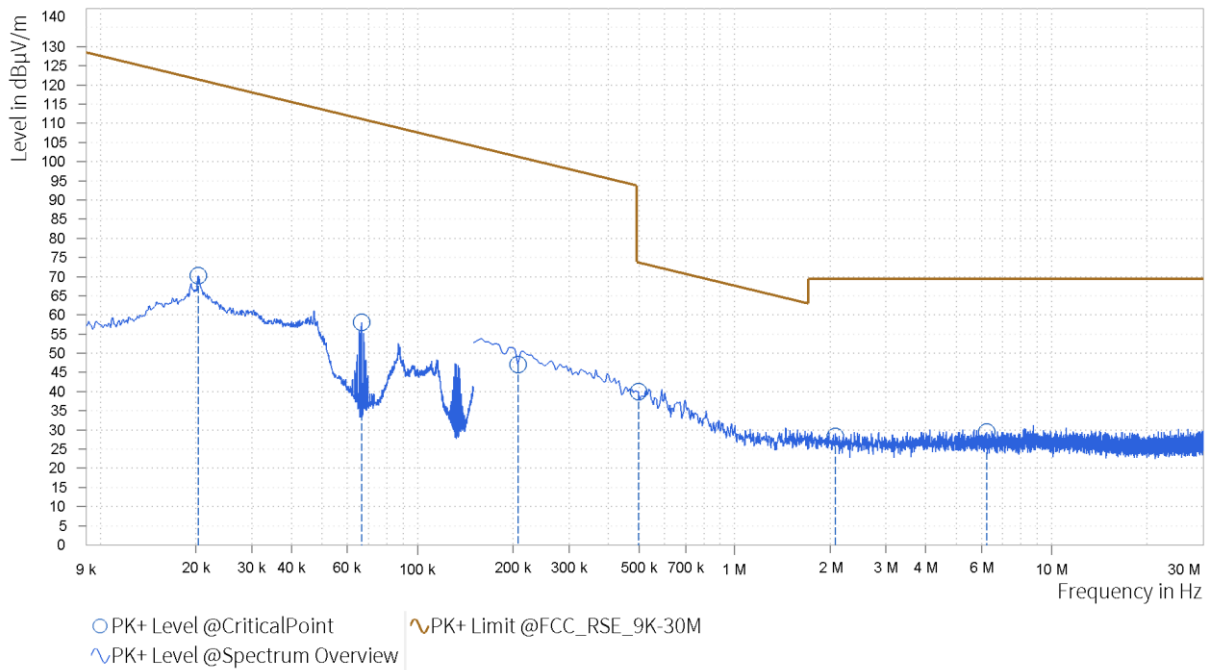
Emission 9kHz-30MHz

Model: 538 (BLE_1Mbps_Low Channel: 2402MHz)



EMI Critical Points

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Antenna Height [m]
1	0.020	69.71	121.45	51.73	20.60	H	1.00
1	0.067	57.93	111.13	53.21	20.67	H	1.00
2	0.168	53.37	103.12	49.74	20.62	H	1.00
2	0.497	40.12	73.68	33.57	20.59	H	1.00
2	1.844	28.47	69.50	41.03	20.57	H	1.00
2	9.215	29.61	69.50	39.89	21.00	H	1.00



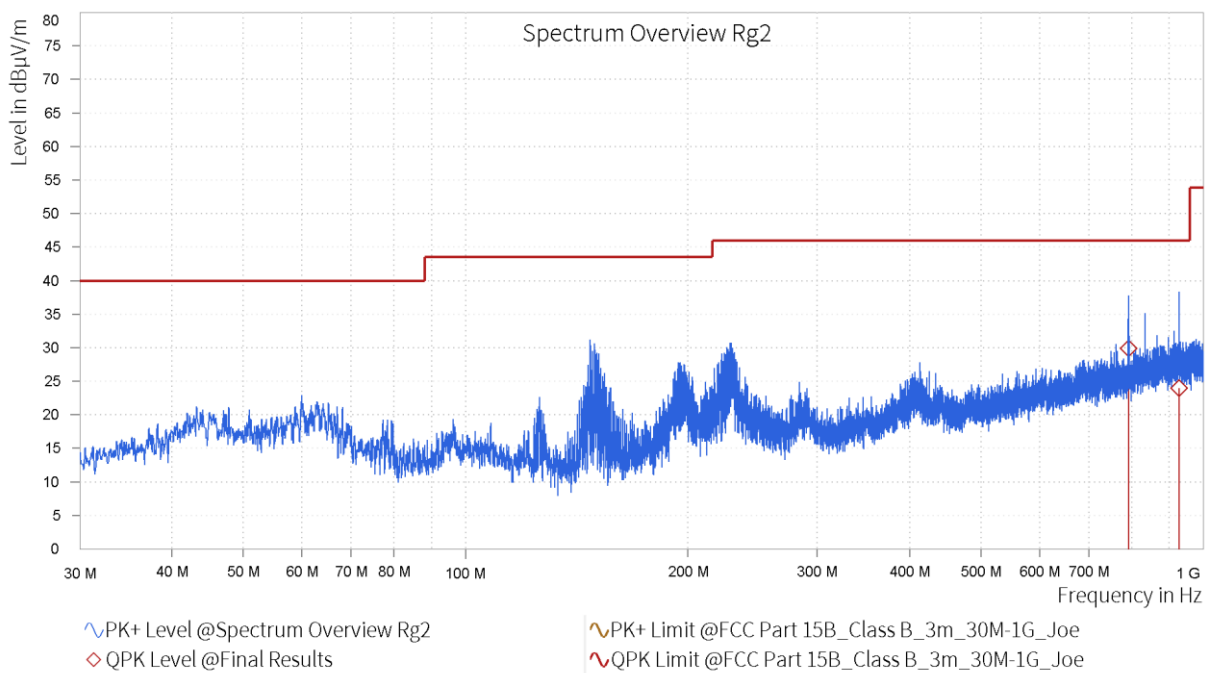
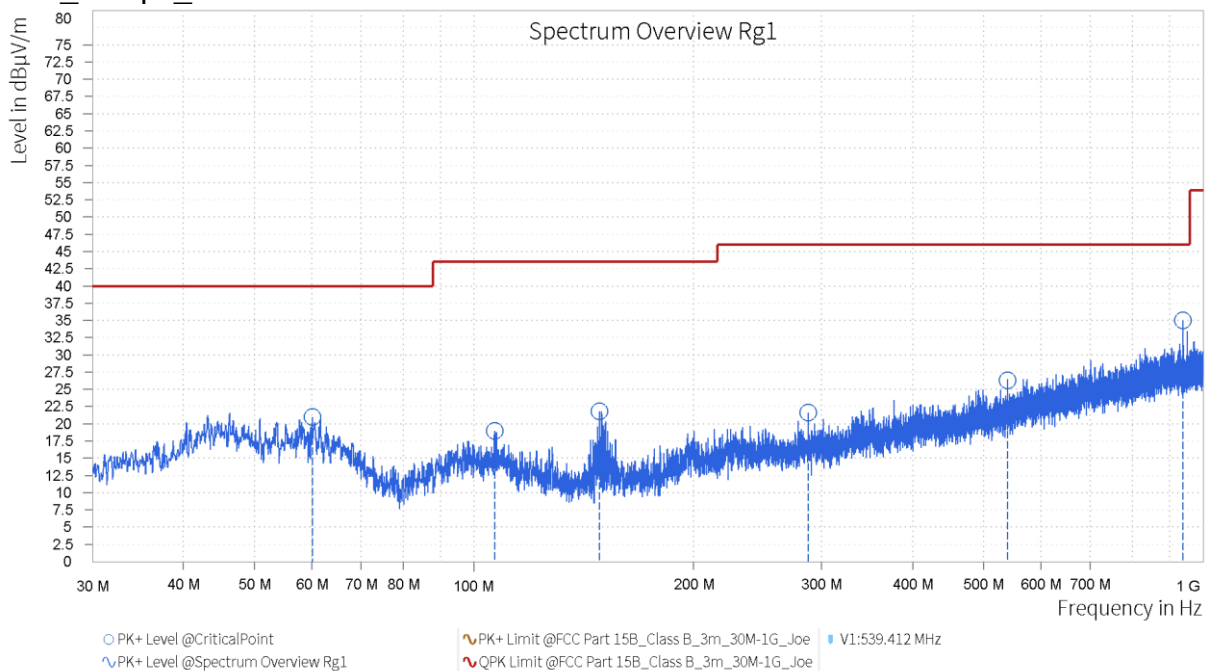
EMI Critical Points

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Antenna Height [m]
1	0.020	70.23	121.41	51.18	20.60	V	1.00
1	0.067	58.02	111.13	53.11	20.67	V	1.00
2	0.207	47.02	101.28	54.26	20.59	V	1.00
2	0.497	40.00	73.68	33.68	20.59	V	1.00
2	2.081	28.23	69.50	41.27	20.57	V	1.00
2	6.243	29.43	69.50	40.07	20.83	V	1.00

Emission 30MHz-1GHz

Model: 538

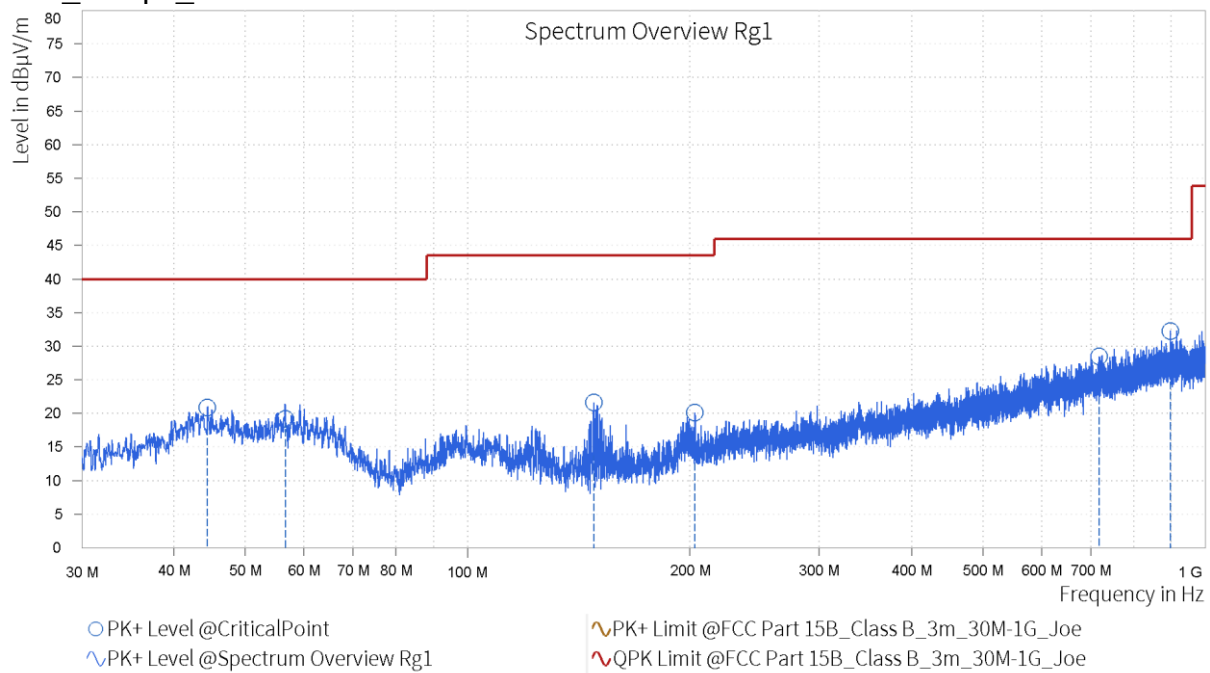
BLE_1Mbps_Low Channel: 2402MHz

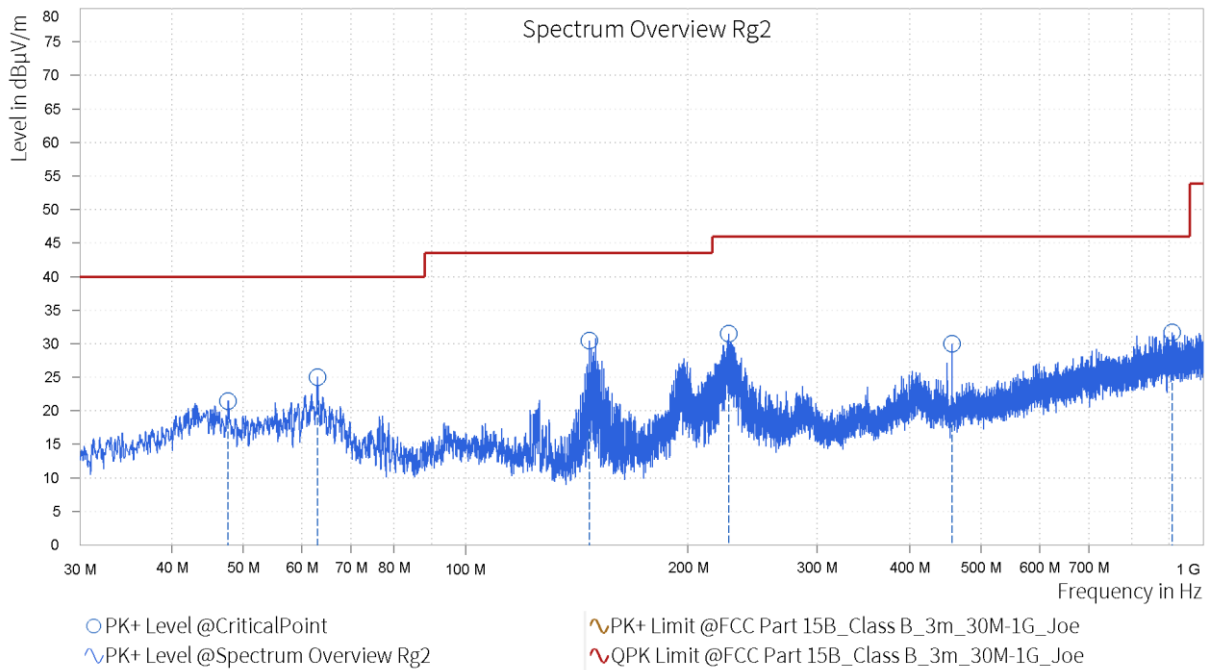


EMI Critical Points

Rg	Frequency [MHz]	PK+ Level [dB μ V/m]	PK+ Limit [dB μ V/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	60.070	21.01	40.00	18.99	-16.00	V	273.2	1.00
1	106.792	18.95	43.50	24.55	-17.42	V	28.8	1.00
1	148.717	21.79	43.50	21.71	-20.89	V	94.9	1.00
1	287.535	21.62	46.00	24.38	-15.72	V	196.5	1.00
1	539.412	26.32	46.00	19.68	-10.75	V	358.1	1.00
1	937.758	35.01	46.00	10.99	-4.50	V	68.8	1.00
2	43.257	20.79	40.00	19.21	-14.10	H	0.1	1.00
2	77.314	19.30	40.00	20.70	-21.56	H	197.5	1.00
2	149.579	30.61	43.50	12.89	-20.89	H	8	1.00
2	228.311	30.70	46.00	15.30	-17.06	H	8	1.00
2	792.959	37.82	46.00	8.18	-6.61	H	338	1.00
2	928.543	36.94	46.00	9.06	-4.52	H	185.3	1.00

BLE_1Mbps_Middle Channel: 2440MHz

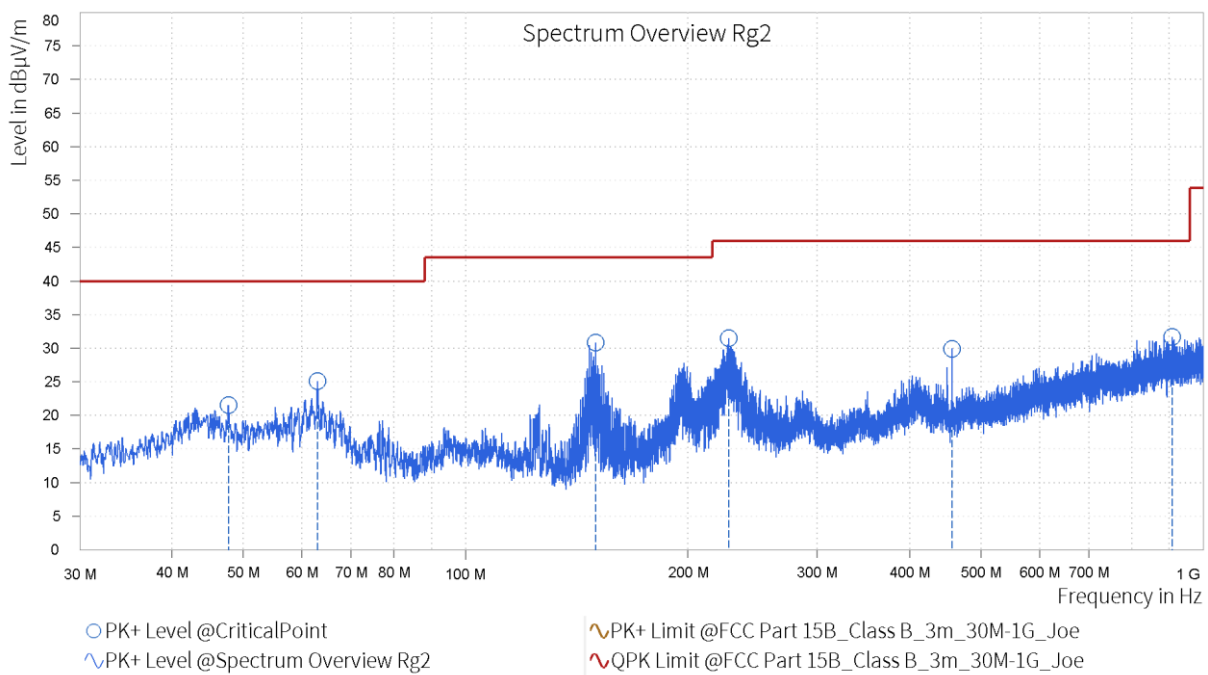
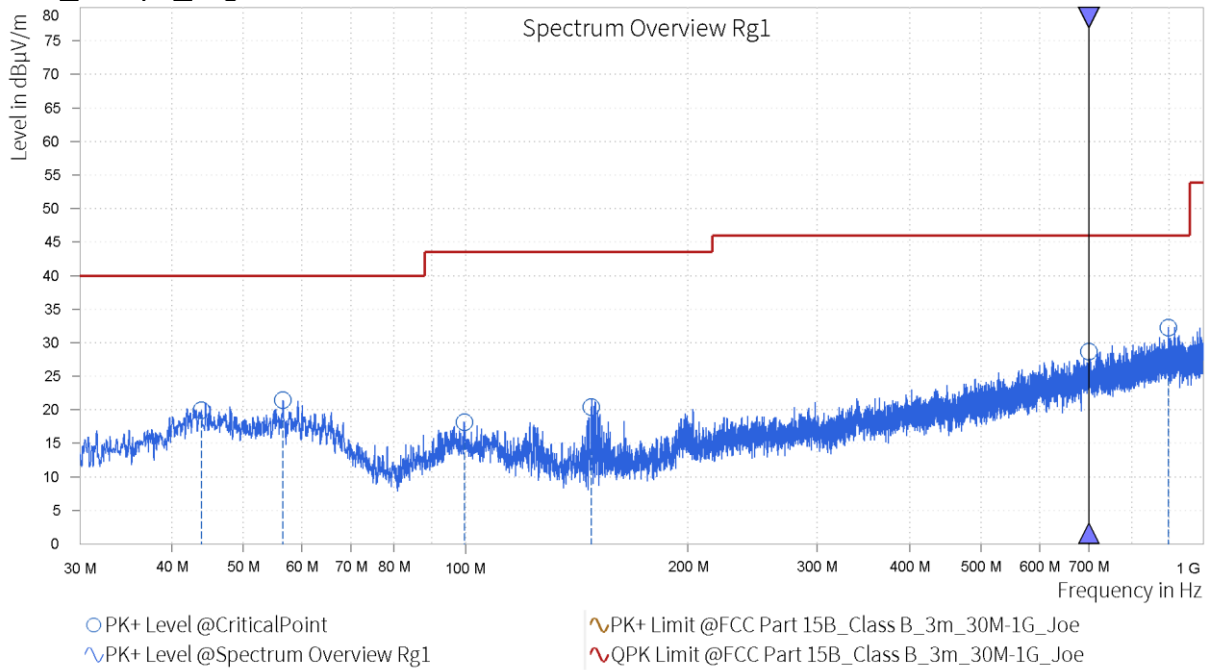




EMI Critical Points

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	44.388	20.84	40.00	19.16	-14.00	V	0	1.00
1	56.675	19.20	40.00	20.80	-15.06	V	288.2	1.00
1	148.340	21.60	43.50	21.90	-20.89	V	102.2	1.00
1	203.522	20.11	43.50	23.39	-17.93	V	29	1.00
1	719.077	28.44	46.00	17.56	-7.67	V	352.4	1.00
1	897.072	32.23	46.00	13.77	-4.70	V	263.9	1.00
2	47.676	21.44	40.00	18.56	-13.84	H	258.9	1.00
2	63.034	25.05	40.00	14.95	-16.69	H	286.5	1.00
2	147.262	30.42	43.50	13.08	-20.97	H	360	1.00
2	227.557	31.48	46.00	14.52	-17.08	H	245.1	1.00
2	456.908	29.96	46.00	16.04	-12.23	H	172.5	1.00
2	908.712	31.72	46.00	14.28	-4.55	H	122.3	1.00

BLE_1Mbps_High Channel: 2480MHz



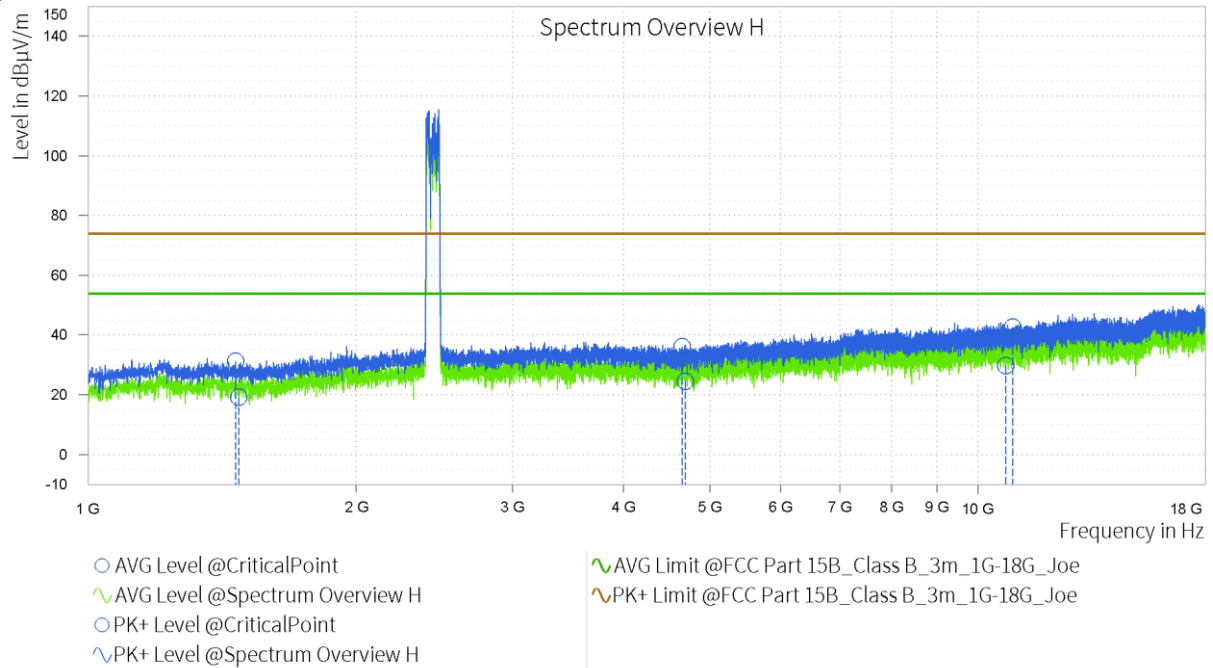
EMI Critical Points

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	43.849	19.94	40.00	20.06	-14.08	V	2.4	1.00
1	56.567	21.43	40.00	18.57	-15.04	V	288.2	1.00
1	99.624	18.12	43.50	25.38	-17.07	V	140.8	1.00
1	148.178	20.37	43.50	23.13	-20.90	V	251.7	1.00
1	700.647	28.67	46.00	17.33	-7.90	V	340.3	1.00
1	897.072	32.23	46.00	13.77	-4.70	V	263.9	1.00
2	47.729	21.57	40.00	18.43	-13.85	H	258.9	1.00
2	62.980	25.09	40.00	14.91	-16.67	H	286.5	1.00
2	150.118	30.80	43.50	12.70	-20.89	H	2.2	1.00
2	227.557	31.48	46.00	14.52	-17.08	H	245.1	1.00
2	456.854	29.88	46.00	16.12	-12.23	H	172.5	1.00
2	908.712	31.72	46.00	14.28	-4.55	H	122.3	1.00

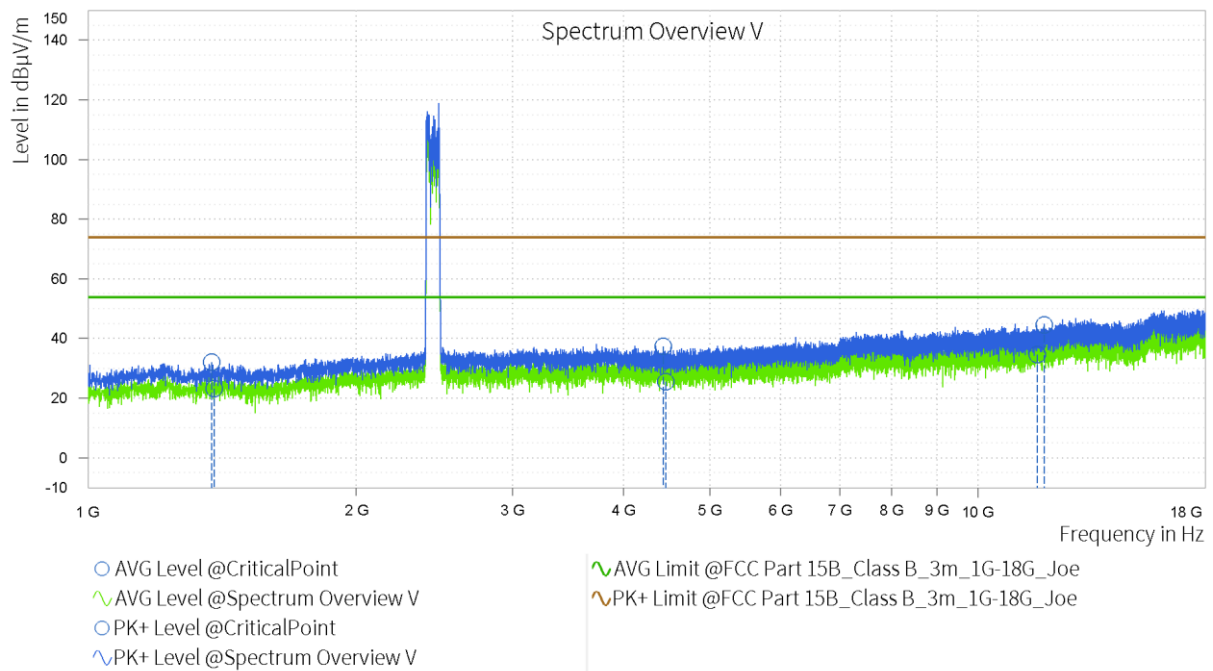
Emission above 1-18GHz

Model: 538

BLE_1Mbps_Low Channel: 2402MHz



Remark: Data of measurement over the limit in frequency ranges 1-18GHz are fundamental frequency of BT.

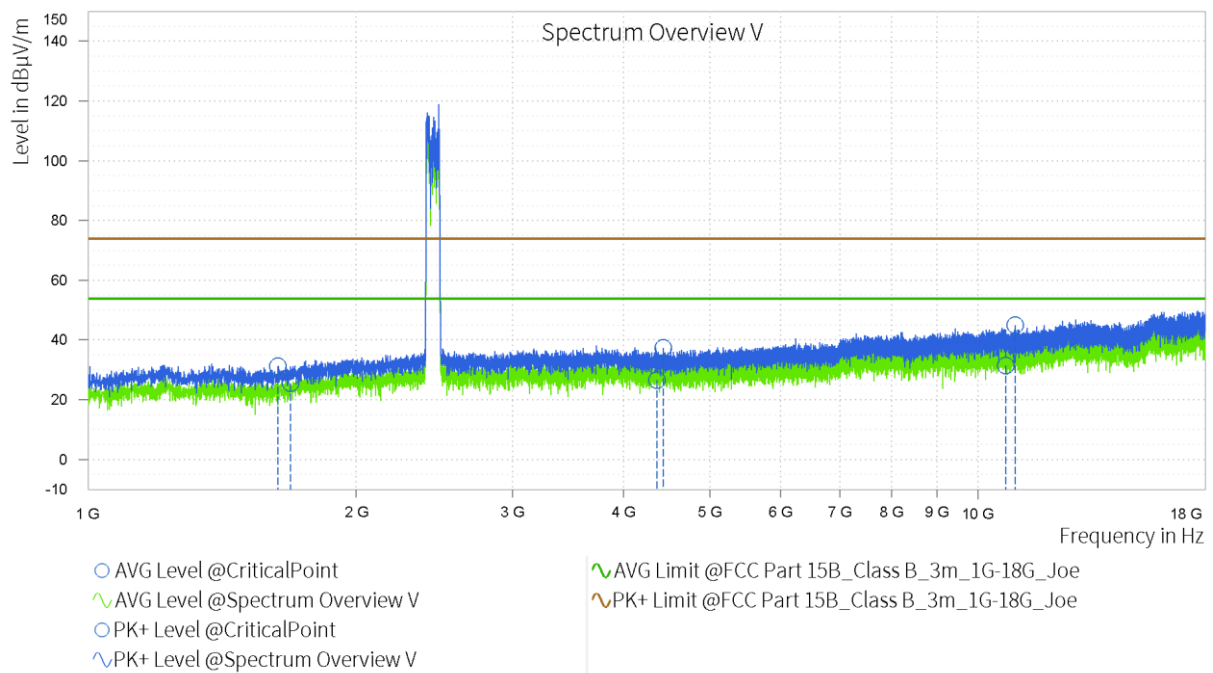
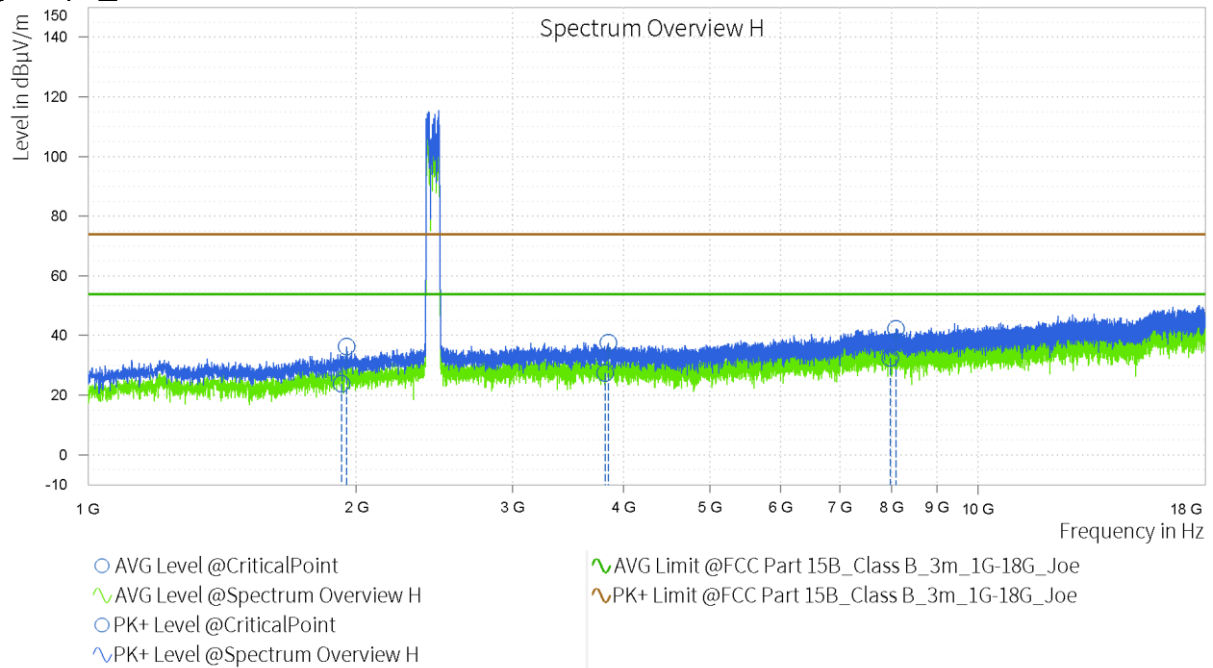


EMI Critical Points

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization
1	1,377.000	32.03	73.90	41.87		53.90		-21.52	V
1	1,386.000		73.90		23.26	53.90	30.64	-21.59	V
1	1,464.500	31.30	73.90	42.60		53.90		-21.96	H
1	1,477.500		73.90		19.27	53.90	34.63	-21.96	H
1	4,431.500	37.36	73.90	36.54		53.90		-11.06	V
1	4,458.000		73.90		25.48	53.90	28.42	-10.83	V
1	4,650.500	36.13	73.90	37.77		53.90		-10.78	H
1	4,692.500		73.90		24.53	53.90	29.37	-10.85	H
1	10,755.000		73.90		29.77	53.90	24.13	-6.42	H
1	10,940.000	42.68	73.90	31.22		53.90		-6.40	H
1	11,655.500		73.90		34.63	53.90	19.27	-5.44	V
1	11,863.000	44.61	73.90	29.29		53.90		-5.13	V

Remark: Data of measurement over the limit in frequency ranges 1-18GHz are fundamental frequency of BT.

BLE_1Mbps_Middle Channel: 2440MHz

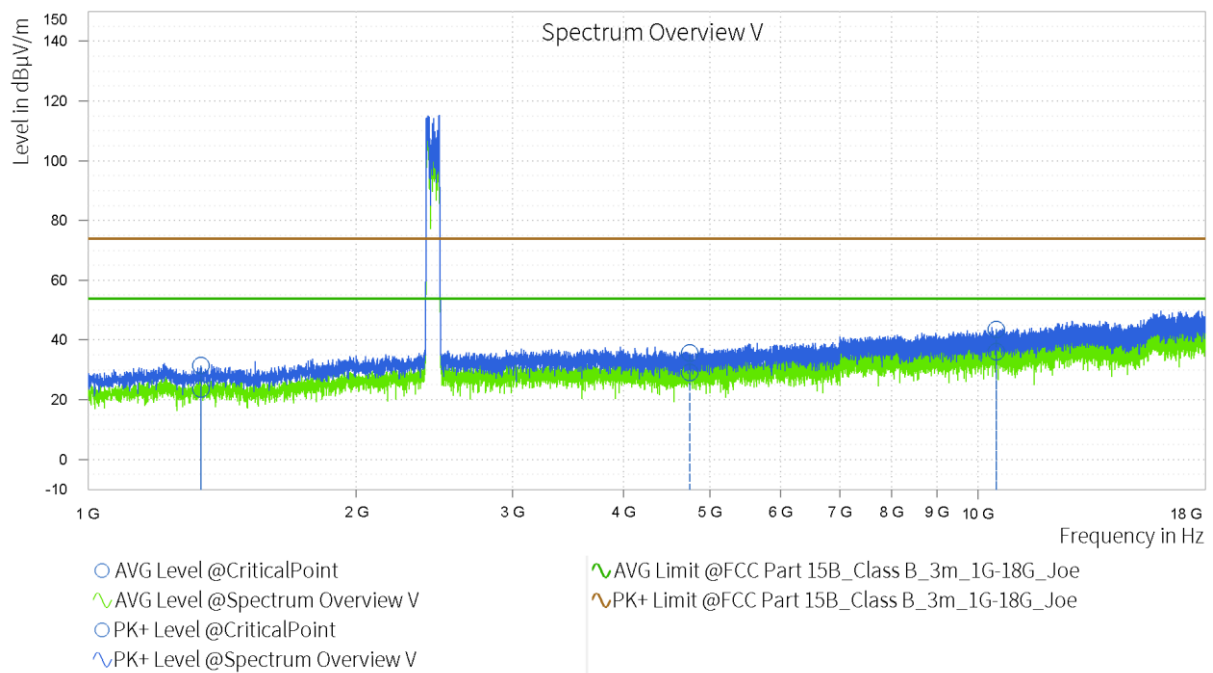
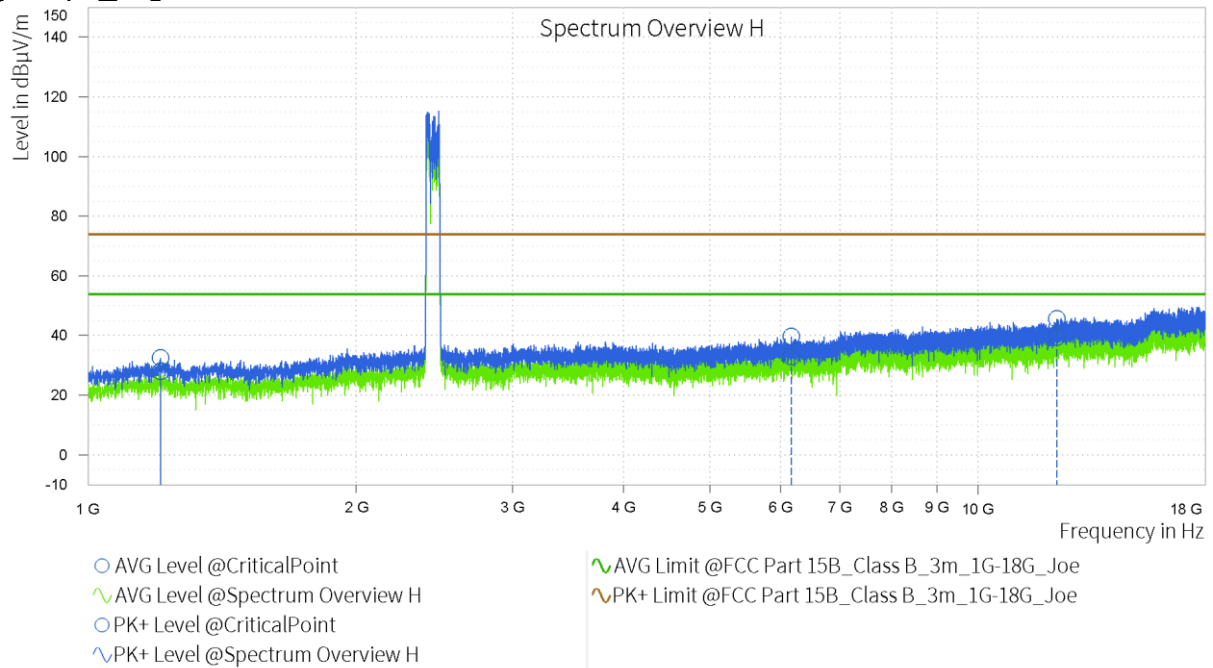


Remark: Data of measurement over the limit in frequency ranges 1-18GHz are fundamental frequency of BT.

EMI Critical Points

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization
1	1,635.500	31.15	73.90	42.75		53.90		-21.82	V
1	1,689.000		73.90		25.56	53.90	28.34	-21.03	V
1	1,926.500		73.90		23.79	53.90	30.11	-18.31	H
1	1,951.500	36.36	73.90	37.54		53.90		-18.14	H
1	3,810.000		73.90		27.43	53.90	26.47	-12.15	H
1	3,843.500	37.52	73.90	36.38		53.90		-12.12	H
1	4,360.000		73.90		26.57	53.90	27.33	-11.37	V
1	4,431.500	37.36	73.90	36.54		53.90		-11.06	V
1	7,969.500		73.90		32.43	53.90	21.47	-8.23	H
1	8,096.500	42.17	73.90	31.73		53.90		-7.93	H
1	10,745.000		73.90		31.38	53.90	22.52	-6.43	V
1	11,018.000	44.93	73.90	28.97		53.90		-6.15	V

BLE_1Mbps_High Channel: 2480MHz



Remark: Data of measurement over the limit in frequency ranges 1-18GHz are fundamental frequency of BT.

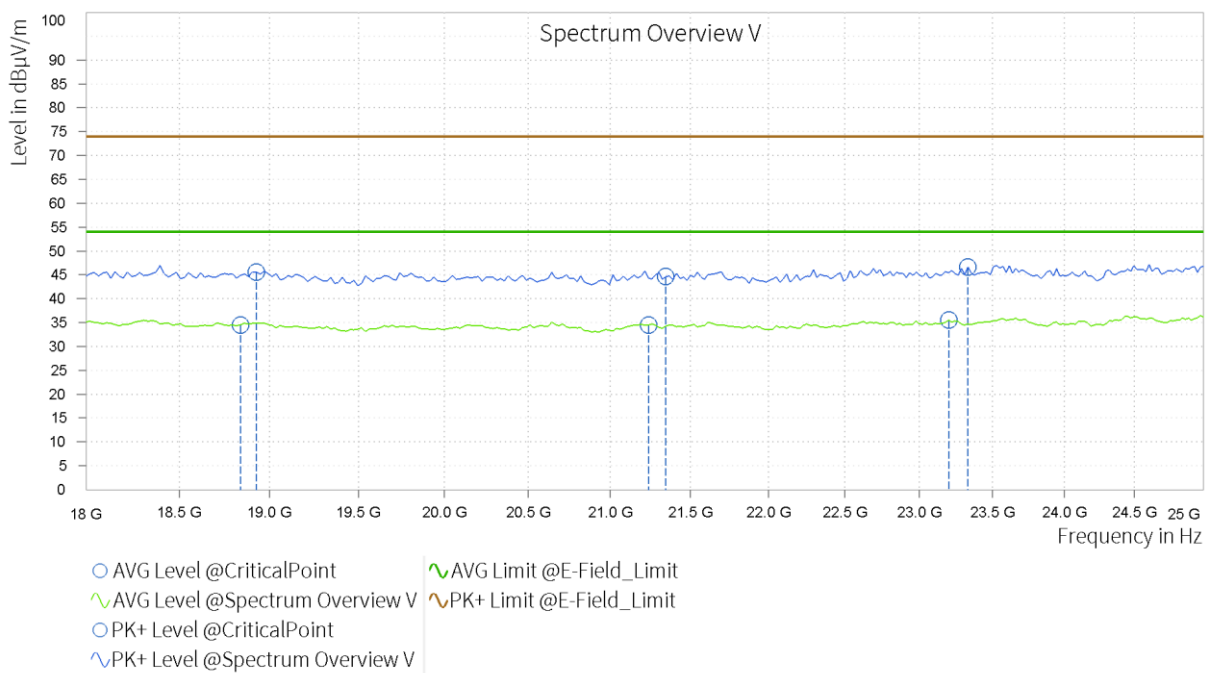
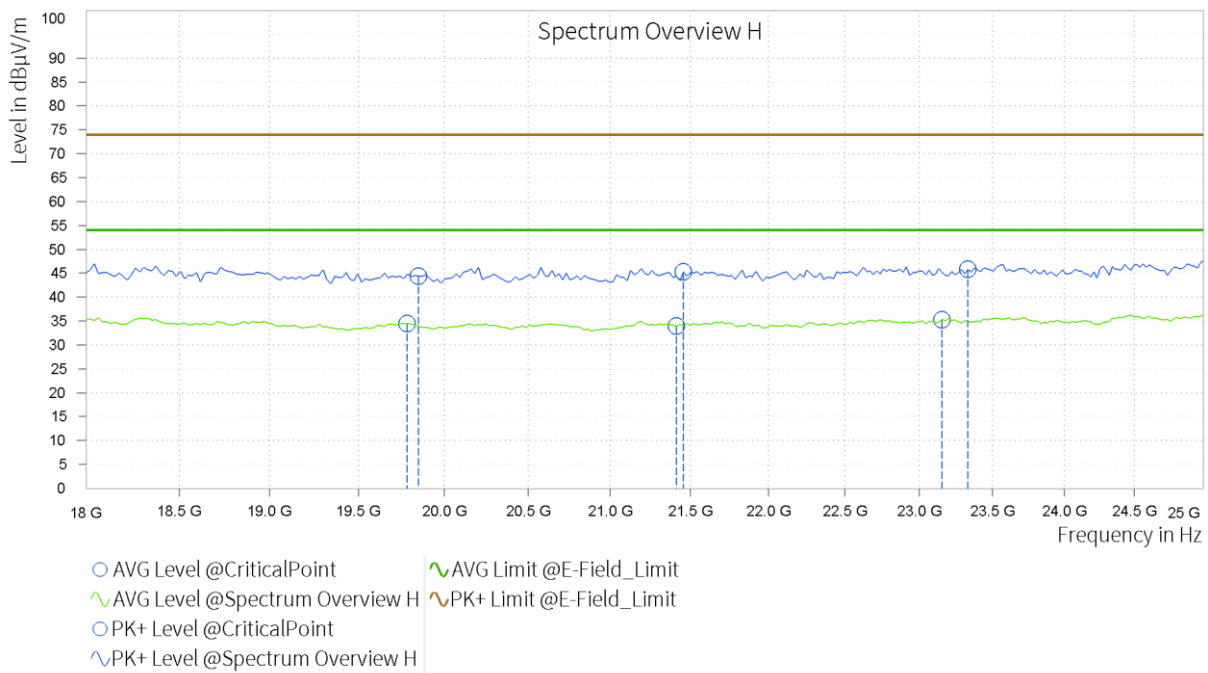
EMI Critical Points

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]
1	1,206.500	32.42	73.90	41.48		53.90		-21.81
1	1,206.500		73.90		28.03	53.90	25.87	-21.81
1	1,338.500		73.90		23.52	53.90	30.38	-21.26
1	1,339.500	31.35	73.90	42.55		53.90		-21.26
1	4,742.500		73.90		29.17	53.90	24.73	-10.93
1	4,746.000	35.58	73.90	38.32		53.90		-10.94
1	6,167.500		73.90		32.84	53.90	21.06	-9.43
1	6,168.500	39.58	73.90	34.32		53.90		-9.43
1	10,481.500	43.45	73.90	30.45		53.90		-6.73
1	10,495.000		73.90		36.13	53.90	17.77	-6.70
1	12,260.500	39.37	73.90	34.53		53.90		-4.93
1	12,267.000	45.55	73.90	28.35		53.90		-4.90

Emission 18GHz-25GHz

Model: 538

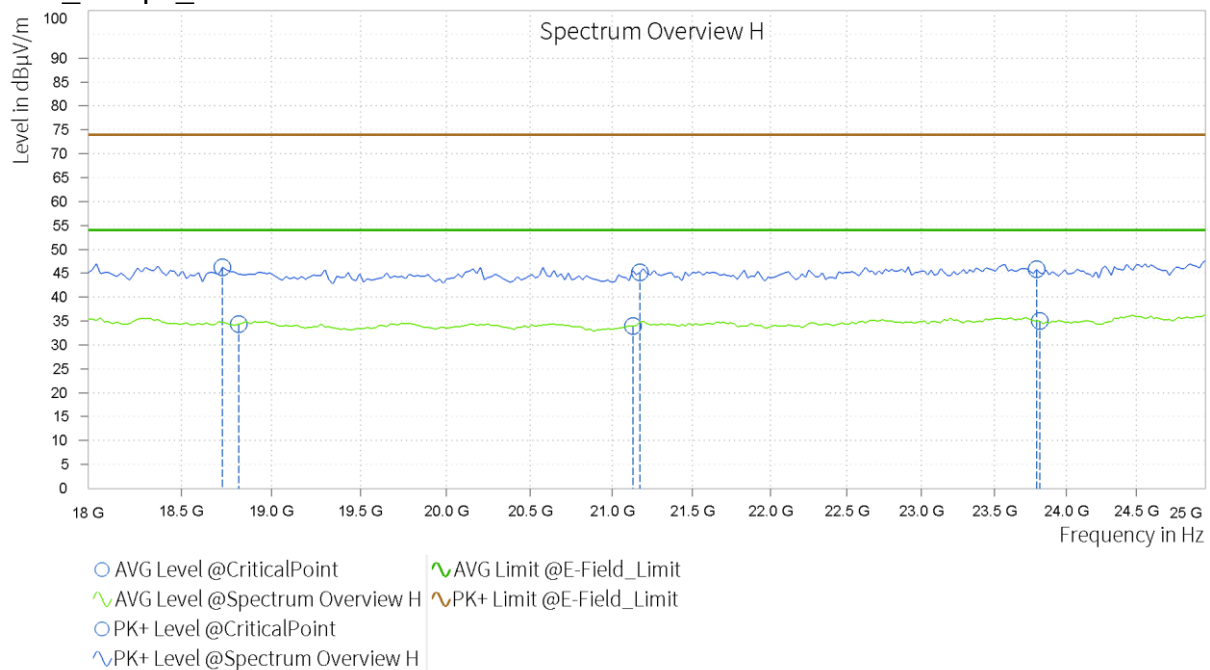
BLE_1Mbps_Low Channel: 2402MHz

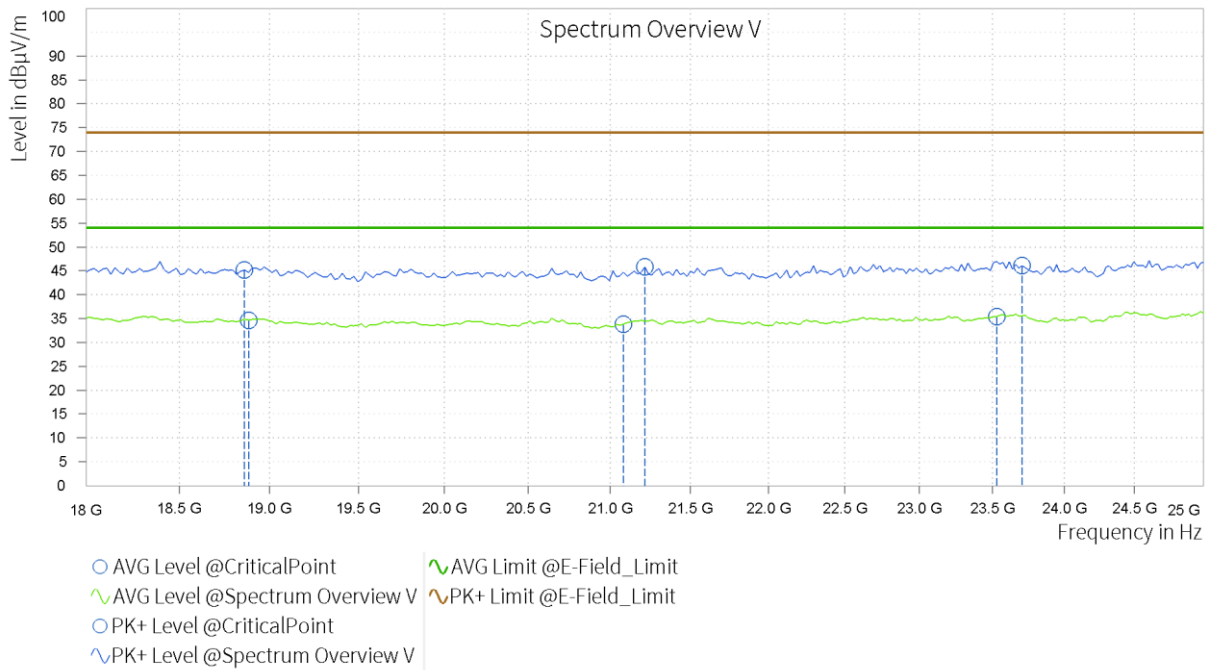


EMI Critical Points

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization
1	19,849.850	44.44	74.00	29.56		54.00		-11.96	H
1	19,783.784		74.00		34.49	54.00	19.51	-11.91	H
1	21,457.457	45.29	74.00	28.71		54.00		-11.97	H
1	21,413.413		74.00		33.90	54.00	20.10	-11.97	H
1	23,329.329	45.81	74.00	28.19		54.00		-11.11	H
1	23,153.153		74.00		35.32	54.00	18.68	-11.35	H
1	18,924.925	45.54	74.00	28.46		54.00		-11.52	V
1	18,836.837		74.00		34.52	54.00	19.48	-11.84	V
1	21,347.347	44.65	74.00	29.35		54.00		-12.00	V
1	21,237.237		74.00		34.49	54.00	19.51	-12.13	V
1	23,329.329	46.68	74.00	27.32		54.00		-11.11	V
1	23,197.197		74.00		35.48	54.00	18.52	-11.32	V

BLE_1Mbps_Middle Channel: 2440MHz

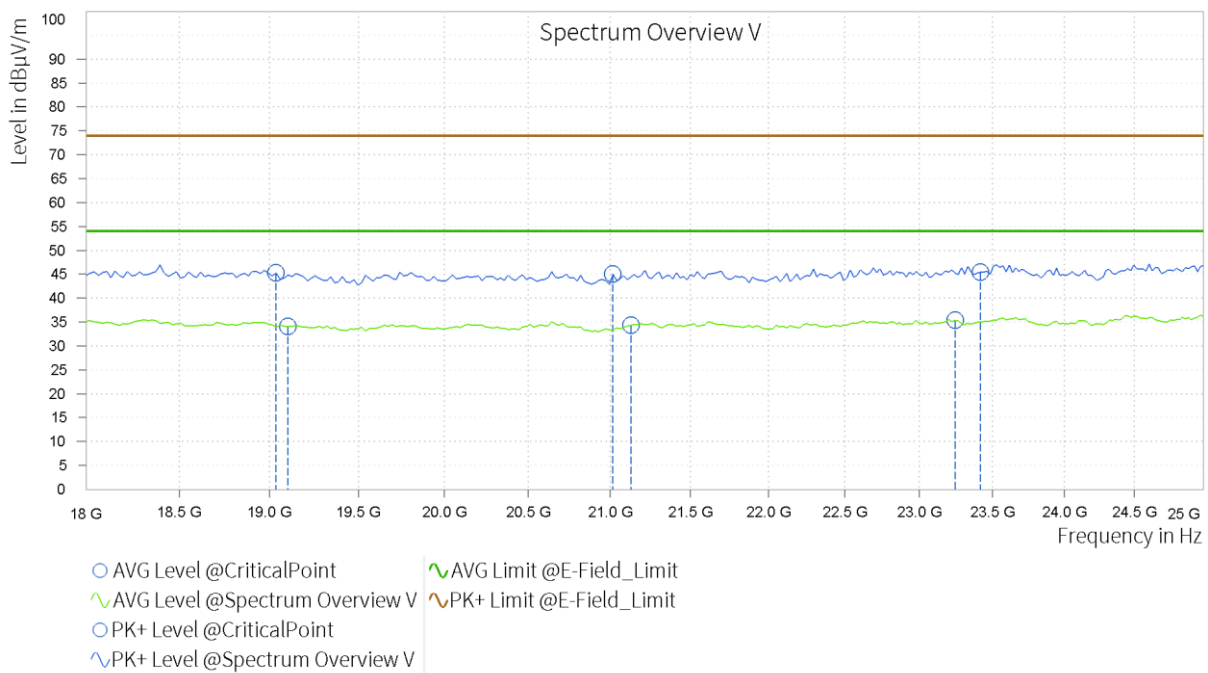
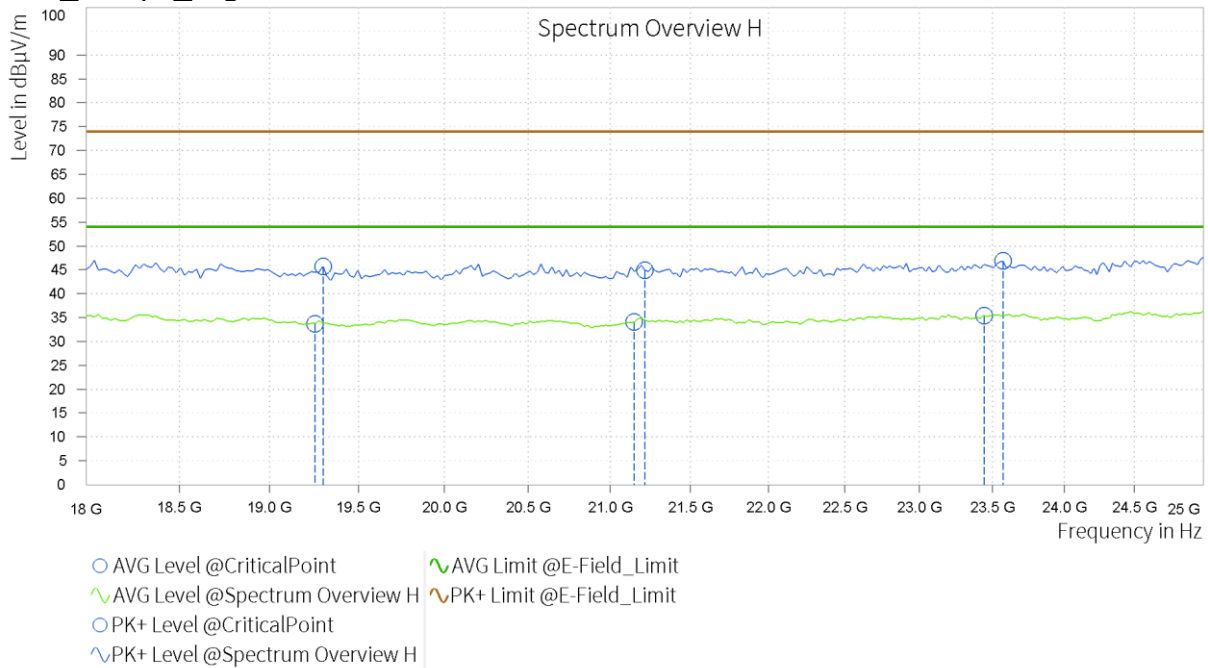




EMI Critical Points

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization
1	18,726.727	46.25	74.00	27.75		54.00		-11.94	H
1	18,814.815		74.00		34.33	54.00	19.67	-11.92	H
1	21,171.171	45.12	74.00	28.88		54.00		-12.35	H
1	21,127.127		74.00		33.89	54.00	20.11	-12.50	H
1	23,791.792	45.83	74.00	28.17		54.00		-10.40	H
1	23,813.814		74.00		35.04	54.00	18.96	-10.38	H
1	18,858.859	45.18	74.00	28.82		54.00		-11.76	V
1	18,880.881		74.00		34.65	54.00	19.35	-11.68	V
1	21,215.215	45.78	74.00	28.22		54.00		-12.20	V
1	21,083.083		74.00		33.87	54.00	20.13	-12.66	V
1	23,703.704	46.07	74.00	27.93		54.00		-10.53	V
1	23,527.528		74.00		35.37	54.00	18.63	-10.72	V

BLE_1Mbps_High Channel: 2480MHz



EMI Critical Points

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization
1	19,299.299	45.77	74.00	28.23		54.00		-12.10	H
1	19,255.255		74.00		33.75	54.00	20.25	-12.05	H
1	21,215.215	44.97	74.00	29.03		54.00		-12.20	H
1	21,149.149		74.00		34.11	54.00	19.89	-12.43	H
1	23,571.572	46.84	74.00	27.16		54.00		-10.69	H
1	23,439.439		74.00		35.47	54.00	18.53	-10.87	H
1	19,035.035	45.25	74.00	28.75		54.00		-11.36	V
1	19,101.101		74.00		34.05	54.00	19.95	-11.59	V
1	21,017.017	45.02	74.00	28.98		54.00		-12.89	V
1	21,127.127		74.00		34.30	54.00	19.70	-12.50	V
1	23,417.417	45.41	74.00	28.59		54.00		-10.91	V
1	23,241.241		74.00		35.35	54.00	18.65	-11.29	V

Remark:

- (1) Data of measurement over the limit in frequency ranges 1-18GHz are fundamental frequency of BT.
- (2) Level= Reading Level + Correction Factor
- (3) Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain
Below 1GHz: Corrector factor = Antenna Factor + Cable Loss
(The Reading Level is recorded by software which is not shown in the sheet)

10 Test Equipment List

Conducted Emission Test

Description	Manufacturer	Model no.	Equipment ID	Serial no.	Cal interval (year)	Cal. due date
EMI Test Receiver	Rohde & Schwarz	ESR 7	64-2-63-20-002	102240	1	2025-10-28
LISN	SCHWARZBECK	NNLK-8140	64-2-60-20-001	00136	1	2025-10-29
Testing Software	R&S	EMC32	64-2-26-20-003	V 10.60.20	N/A	N/A
10m SAC Control Room	TDK	SAC10-CR	64-2-90-20-007	----	3	2026-09-06

Radiated Emission Test, SAC-3

Description	Manufacturer	Model no.	Equipment ID	Serial no.	Cal interval (year)	Cal. due date
EMI Test Receiver	Rohde & Schwarz	ESW44	64-2-63-24-003	103390	1	2026-07-28
Horn Antenna	Schwarzbeck	BBHA 9120D	64-2-62-20-004	02152	1	2025-11-15
Wave Guide Antenna	ETS	3117	64-2-62-24-005	269095	1	2026-08-06
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9162	64-2-62-20-001	00341	1	2025-10-31
Circular magnetic loop	Schwarzbeck	FESP 5133-7/41	64-2-62-21-002	Circular magnetic loop	1	2026-03-27
3m Semi-anechoic chamber	TDK	SAC-3	64-2-90-20-004	----	3	2026-09-04
Testing Software	R&S	ELEKTRA	64-2-26-24-002	V 5.04.0	N/A	N/A

RF Conducted Test

Description	Manufacturer	Model no.	Equipment ID	Serial no.	Cal interval (year)	Cal. due date
EMI Test Receiver	Rohde & Schwarz	ESW44	64-2-63-24-003	103390	1	2026-07-28
Testing Software	R&S	RF Test Suite	64-2-26-24-001	V 12.00.00	N/A	N/A
10m SAC Control Room	TDK	SAC10-CR	64-2-90-20-007	N/A	3	2026-09-06

11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Conducted Emission in new shielding room 150kHz-30MHz	2.84dB
Uncertainty for Radiated Emission in 3m chamber 9kHz-30MHz	4.32dB
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	Horizontal: 4.14dB; Vertical: 5.52dB
Uncertainty for Radiated Emission in 3m chamber 1000MHz-18000MHz	5.13dB
Uncertainty for Radiated Emission in 3m chamber above 18000MHz	5.72
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.38dB Frequency test involved: 0.6×10 ⁻⁸ or 1%

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2023, clause 4.3.3.

--- END OF REPORT---