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FCC ISED RF Test Report

Test Report Number	AXN-24112031-LC-FCC-IC-RF-ETS-02
FCC ID	2AEEGTS
IC	20225-TS
Applicant	Axonics Modulation Technologies, Inc.
Applicant Address	15515 Sand Canyon Ave, Irvine, CA 92618
Product Name	External Pulse Generator (EPG)
Model (s)	ETS-02
Date of Receipt	07/15/2025
Date of Test	07/15/2025- 07/20/2025
Report Issue Date	07/30/2025
Test Standards	47 CFR Part 95 Subpart I RSS 243 Issue3, February 2010
Test Result	**PASS**

Issued by:

Vista Compliance Laboratories
1261 Puerta Del Sol, San Clemente, CA 92673 USA
www.vista-compliance.com

Minoush Niknam (Test Engineer)

David Zhang (Technical Manager)

REVISION HISTORY

Report Number	Version	Description	Issued Date
AXN-24112031-LC-FCC-IC-RF-ETS-02	01	Initial report	07/30/2025

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1 Test Summary

Test Item	Test Requirement	Test Method	Result
Frequency Stability	FCC 95.2565 FCC 2.1055 RSS-243 § 5.3	ANSI C63.26-2015	Pass
Emission Bandwidth	FCC 95.2573(b) & 2563(a) FCC 2.1047 RSS-243 3.2, 5.1	ANSI C63.26-2015	Pass
Emission Mask	FCC 95.2579(a)(d) RSS-243 § 5.5 (b)	ANSI C63.26-2015 RSS-Gen Issue 5, Feb 2021	Pass
Occupied Bandwidth	FCC 2.1049 RSS-GEN § 6.7	ANSI C63.26-2015 RSS-Gen Issue 5, Feb 2021	Pass
Transmitter Conducted Output Power	FCC 2.1046 RSS-Gen § 6.12	RSS-Gen Issue 5, Feb 2021	Pass
MedRadio equivalent isotropic radiated power (M-EIRP)	FCC 95.2567(a)(2) FCC 2.1046 RSS-243 § 5.4	ANSI C63.26-2015	Pass
Transmitter Unwanted Emission	FCC 95.2579(a) & (d) & (d) FCC 2.1053 RSS-243 § 5.5 (c)	ANSI C63.26-2015	Pass
Spurious Conducted Emissions	§ 2.1051; RSS-GEN	ANSI C63.26-2015	Pass
Receiver Spurious Radiated Emissions	RSS-GEN § 7.3 RSS-243 § 5.6	ANSI C63.26-2015 RSS-Gen Issue 5, Feb 2021	Pass

2 General Information

2.1 Applicant

Applicant	Axonics Modulation Technologies, Inc.
Applicant address	15515 Sand Canyon Ave, Irvine, CA 92618
Manufacturer	Axonics Modulation Technologies, Inc.
Manufacturer Address	15515 Sand Canyon Ave, Irvine, CA 92618

2.2 Product information

Product Name	External Pulse Generator (EPG)
Model Number	ETS-02
Family Models	N/A
Serial Number	ET-99999314
Frequency Band	MedRadio MEDS (MedRadio-WingBand) Radio Specifies (EPG) Supporting 401-402 MHz (Low Band), 405-406 MHz (High Band), with 150KHz channel spacing
Type of modulation	FSK
Equipment Type	Medical Devices
Equipment Class	TNT
Radio type	MedRadio MEDS, (MedRadio-WingBand) Radio Specifies (EPG)
Antenna Information	Integral Antenna, antenna gain: -20 dBi
Clock Frequencies	N/A
Input Power	Internal battery 2.8 V (nominal)
Power Adapter Manufacturer/Model	N/A
Power Adapter SN	N/A
Hardware version	N/A
Software version	N/A
Additional Info	The Equipment Under Test (EUT) is an External Pulse Generator (EPG), a non-implantable, battery-powered medical device that operates solely on an internal battery and is externally attached to the body. Usage temperature range: 5 °C to 40 °C

2.3 Test standard and method

Test standard	47 CFR Part 95 Subpart I RSS 243 Issue3, February 2010
Test method	ANSI C63.26-2015 RSS-Gen Issue 5, Feb 2021

3 Test Site Information

Lab performing tests	Vista Laboratories, Inc.
Lab Address	1261 Puerta Del Sol, San Clemente, CA 92673 USA
Phone Number	+1 (949) 393-1123
Website	www.vista-compliance.com

Test Condition	Temperature	Humidity	Atmospheric Pressure
RF Testing	23.2°C	57.5%	996 mbar
Radiated Emission Testing	23.2°C	57.5%	996 mbar

4 Modification of EUT / Deviations from Standards

The EUT is an engineering test sample loaded with RF testing firmware specifically designed to support the RF TX/RX measurement in different aspects.

5 Test Configuration and Operation

5.1 EUT Test Configuration

The EUT is a low-power body-worn device. It is configured to operate in various transmission modes, including different radio bandwidths, power levels, test channels, and other adjustable parameters. The EUT is mounted externally on a test fixture (phantom) that simulates the human torso. The dimensions of the phantom and the tissue-equivalent liquid used to fill it comply with the requirements of 47 CFR §95.2569(c) and FCC KDB 617965.

The liquid-filled phantom, with the EUT mounted externally, is placed on a turntable such that the transmitter is positioned at a nominal height of 1.5 meters above ground level and at a 3-meter distance from the measurement antenna.

The following software was used for testing and to monitor EUT performance

Software	Description
EMISoft Vasona	EMC/RF Spurious emission test software used during testing
IpgLink 1.0.1.168	IPGLink software is used to verify the communication between the IPG and a peripheral device (PR, CD, or CP).

Operating frequency list (18 channels):

Channel	Center Frequency (MHz)
10	401.05
11	401.15
12	401.25
13	401.35
14	401.45
15	401.55
16	401.65
17	401.75
18	401.85
19	401.95
20	405.05
21	405.15
22	405.25
23	405.35
24	405.45
25	405.55
26	405.65
27	405.75
28	405.85

5.2 Supporting Equipment

For Radiated test setup

Description	Manufacturer	Model #	Serial #	Software
EPG	Axonics	ETS-02	ET-99999314	V117 BL-7
Tined Lead	Axonics	1201	AL1M931078	NA
PE	Axonics	9009	ABBRA31106	NA
PNE (1)	Axonics	1901	AK2P441003	NA
PNE (2)	Axonics	1901	AK2P441003	NA
Ground Pad	Axonics	NA	L2023-06571	NA
PR	Axonics	2301	AP1H802267	V72
CP	Axonics	2501	AC1K202029	CP-571 ST-49 RF-49
IpgLink	Axonics	NA	NA	1.0.1.168
HP Laptop	Axonics	EliteBook 840	2MQ452035Y	Windows 11
Keysight Digital Oscilloscope	Axonics	DSOX3024A	my56040672	N/A

For Conducted test setup

Description	Model #	Serial #	Software
PCBA Socket	TE-2267	WX2145004	NA
PCBA	ETS-02	4025479574	V117 BL-7
PRComms	1301	AP1K460011	V40
IpgLink	NA	NA	1.0.1.168
GW INSTEK DC Power Supply	GPD-3303S	GE0861898	NA
HP Laptop	EliteBook 840 G11	2MQ4511KMK	Windows 11

6 Uncertainty of Measurement

Test item	Measurement Uncertainty (dB)
RF Output Power (Conducted)	±1.2 dB
Power Spectral Density	±0.9 dB
Unwanted Emission (conducted)	±2.6 dB
Occupied Channel Bandwidth	±5 %
Radiated Emission (9KHz-30MHz)	±3.5 dB
Radiated Emission (30MHz-1GHz)	±4.6 dB
Radiated Emission (1-18GHz)	±4.9 dB
Radiated Emission (18-40GHz)	±3.5 dB

7 Test Results

7.1 Frequency stability

7.1.1 Requirement

§ 95.2565,

The frequency error for equipment operating in the 401 MHz to 406 MHz band shall not exceed ±100 ppm under normal, extreme or any intermediate set of conditions.

(a) 0 °C to 55 °C in the case of MedRadio programmer/control transmitters and medical body-worn transmitters.

RSS-243 §5.3

The carrier frequency shall not depart from the reference frequency in excess of ±100 parts per million.

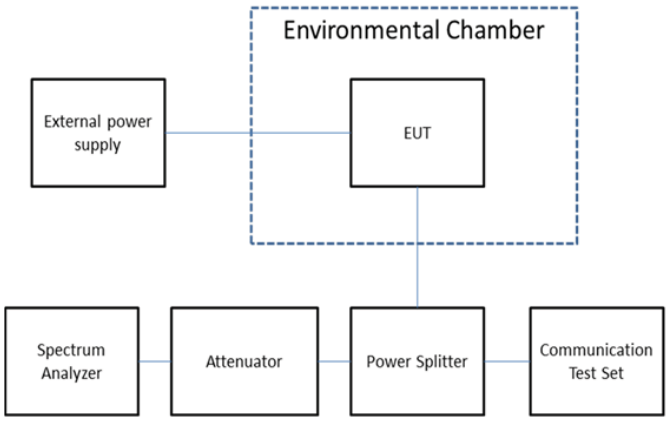
RSS-243 §3.3

(a) For external devices:

(ii) normally used indoors, at temperatures of 0°C, +20°C and +50°C, and at the manufacturer's rated supply voltage; and

(iii) when the temperature is at +20°C, at ± 10% of the manufacturer's rated supply voltage.

7.1.2 Test Setup



7.1.3 Test Procedure

According to section 5.6.3 of ANSI C63.26-2015:

- Device is placed at the environmental chamber. The environmental chamber could control the temperatures and humidity. Power warms up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be recording the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be holding the ±0.5℃ during the measurement testing. Each temperature step shall be at least 60 second ~ 10 minutes, consider the EUT could be test under the stability condition.

7.1.4 Result

Mid CH (Low-Band)						
Voltage (Vdc)	**Temperature (℃)**	**Frequency (MHz)**	**Measured Frequency (MHz)**	**Frequency error (ppm)**	**Limit (ppm)**	**Result**
2.8	0	401.450	401.446543086	-8.611	±100	PASS
	10	401.450	401.446092184	-9.734		
	20	401.450	401.445911824	-10.184		
	30	401.450	401.446587000	-8.502		
	37	401.450	401.445941884	-10.109		
	40	401.450	401.445941884	-10.109		
	50	401.450	401.446152305	-9.584		
2.0	20	401.450	401.44630265	-9.201		
3.2	20	401.450	401.446332665	-9.135		

Mid CH (High-Band)						
Voltage (Vdc)	**Temperature (℃)**	**Frequency (MHz)**	**Measured Frequency (MHz)**	**Frequency error (ppm)**	**Limit (ppm)**	**Result**
2.8	0	405.450	405.446302605	-9.119	±100	PASS
	10	405.450	405.446302605	-9.119		
	20	405.450	405.446212425	-9.342		
	30	405.450	405.445791583	-10.380		
	37	405.450	405.445689000	-10.633		
	40	405.450	405.445689000	-10.633		
	50	405.450	405.445689000	-10.633		
2.0	20	405.450	405.446122244	-9.564		
3.2	20	405.450	405.446002004	-9.861		

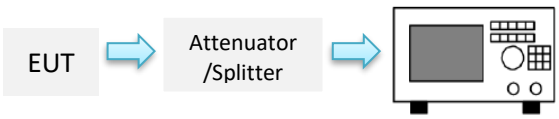
7.2 Emission Bandwidth (20dB bandwidth)

7.2.1 Requirement

§ 95.2573 (b), RSS-243 3.2, 5.1

For MedRadio transmitters operating in the 401-401.85 MHz band or the 405-406 MHz band, the maximum MedRadio emission bandwidth is 100 kHz. Such transmitters must not use more than 100 kHz of bandwidth (total) during a MedRadio communications session. This provision does not preclude full duplex or half duplex communications provided that the total bandwidth of all of the channels employed in a MedRadio communications session does not exceed 100 kHz.

7.2.2 Test Setup



7.2.3 Test Procedure

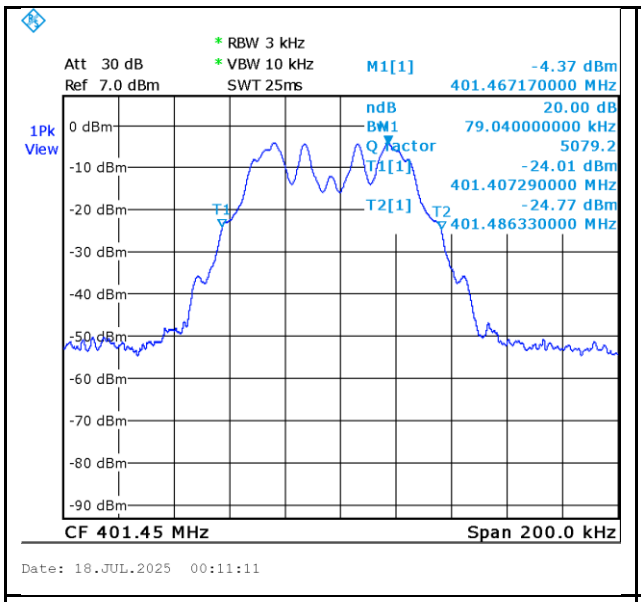
According to section 5.4.3 of ANSI C63.26-2015:

1. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
2. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set to ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Use automatic bandwidth measurement capability on instrument to obtain BW result.

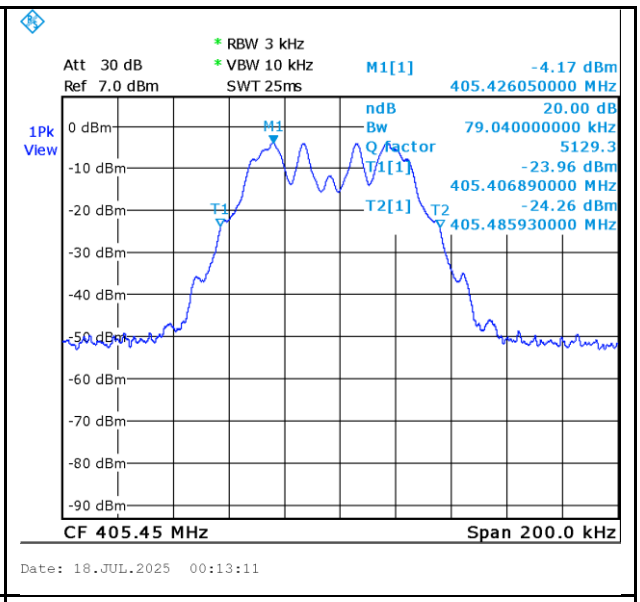
7.2.4 Test Result

Modulation	Frequency (MHz)	Measured 20dB Bandwidth (KHz)	Limit (kHz)	Result
FSK	401.450	79.040	100	Pass
	405.450	79.040	100	Pass

7.2.5 Test Plots



20 dB BW-Mid Ch-Low Band



20 dB BW-Mid Ch-High Band

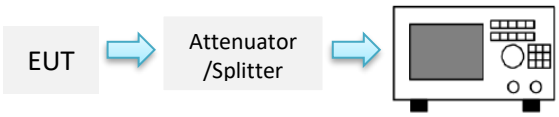
7.3 Occupied Bandwidth (99%)

7.3.1 Requirement

RSS-Gen §6.7

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

7.3.2 Test Setup



7.3.3 Test Procedure

According to section RSS-Gen §6.7 and 5.4.4 of ANSI C63.26-2015:

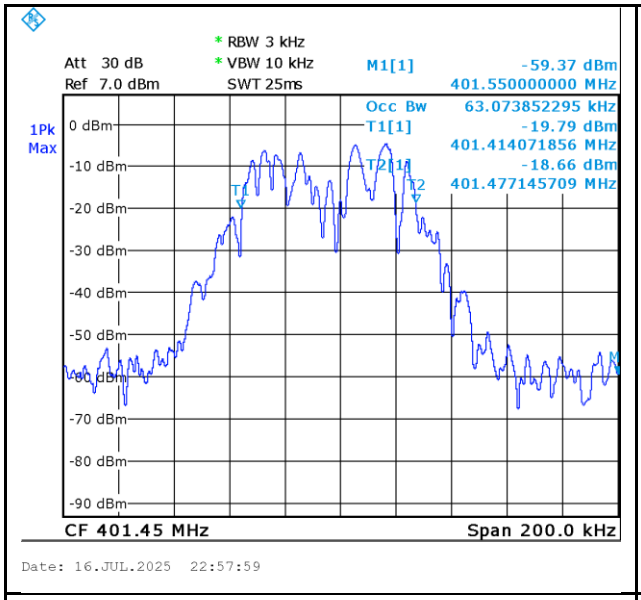
The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

1. Set RBW = 1% to 5% of the actual occupied BW.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Span = large enough to capture all products of the modulation process
7. Allow the trace to stabilize.
8. Use automatic bandwidth measurement capability on instrument to obtain BW result.

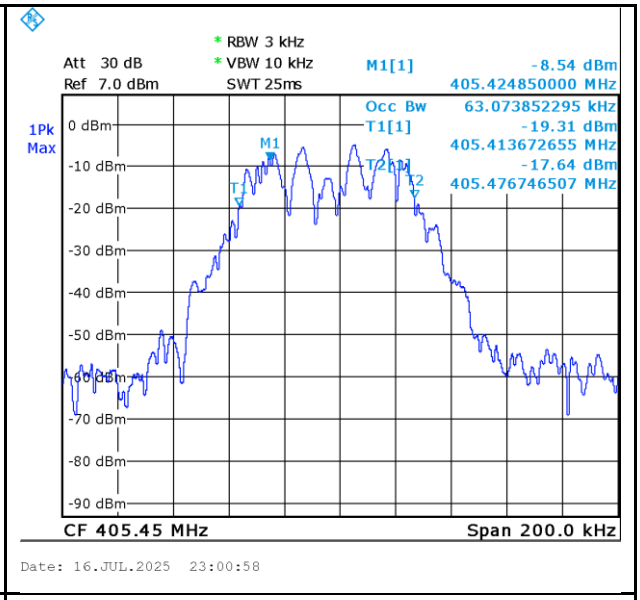
7.3.4 Test Result

Modulation	Frequency (MHz)	99% Occupied Bandwidth (KHz)	Limit (kHz)	Result
FSK	401.450	63.074	N/A	N/A
	405.450	63.074	N/A	N/A

7.3.5 Test Plots



99 % OBW-Mid Ch-Low Band



99% OBW-Mid Ch-High Band

7.4 Emission Mask

7.4.1 Requirement

§ 95.2579 (a) (d), RSS-243 §5.5 (b)

Attenuation requirements, 401-402 MHz, 405-406 MHz. For MedRadio transmitter types designed to operate in the 401-402 MHz band or 405-406 MHz band, the power of unwanted emissions must be attenuated below the maximum permitted transmitter output power by at least:

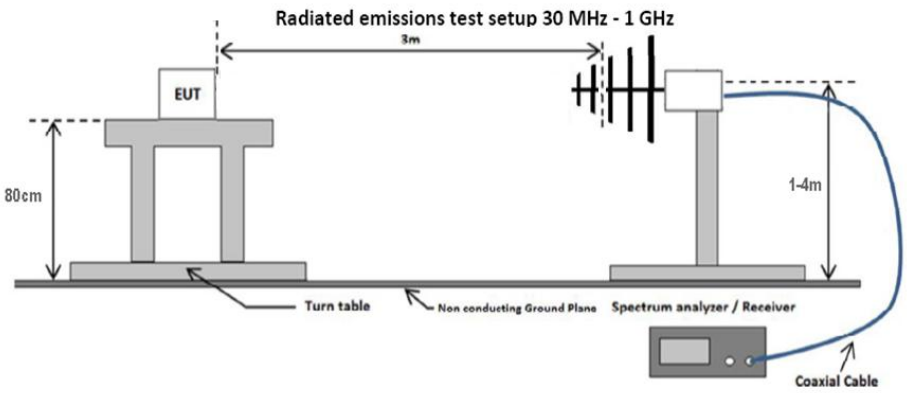
(1) 20 dB, on any frequency within the 401-401.85 MHz or 405-406 MHz bands that is:

(i) More than 75 kHz away from the center frequency of the MedRadio channel the transmission is intended to occupy if the MedRadio transmitter type is operating on a frequency between 401.85 and 402 MHz; or,

(ii) More than 50 kHz away from the center frequency of the MedRadio channel the transmission is intended to occupy and 100 kHz or less below 401 MHz or above 406 MHz.

(2) 20 dB, on any frequency between 400.900 MHz and 401.000 MHz, and on any frequency between 406.000 MHz and 406.100 MHz.

7.4.2 Test Setup



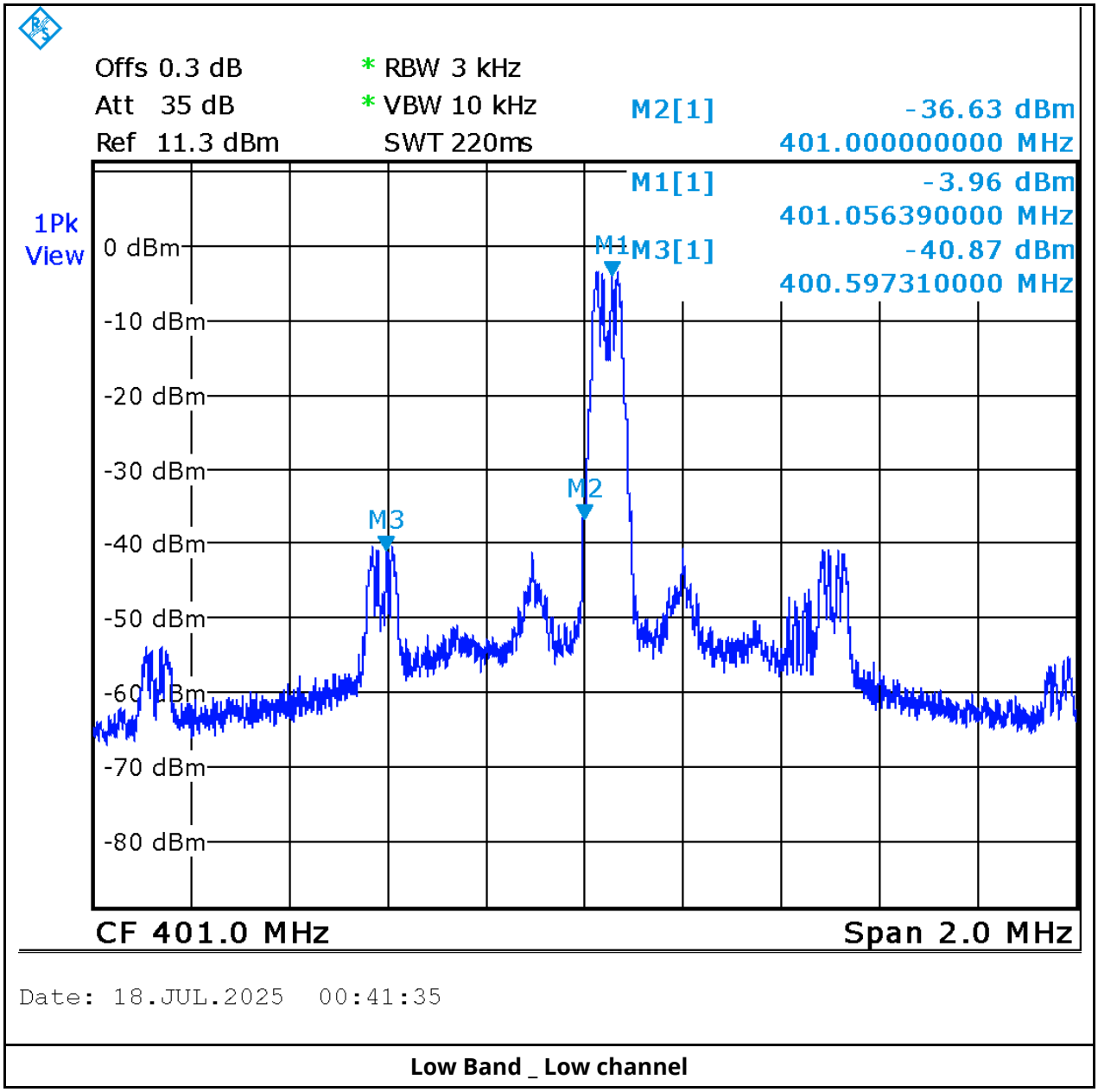
7.4.3 Test Procedure

1. The emission bandwidth was radiated measurement.
2. EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power.
3. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW = 3kHz and VBW = 10kHz. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB (spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth).

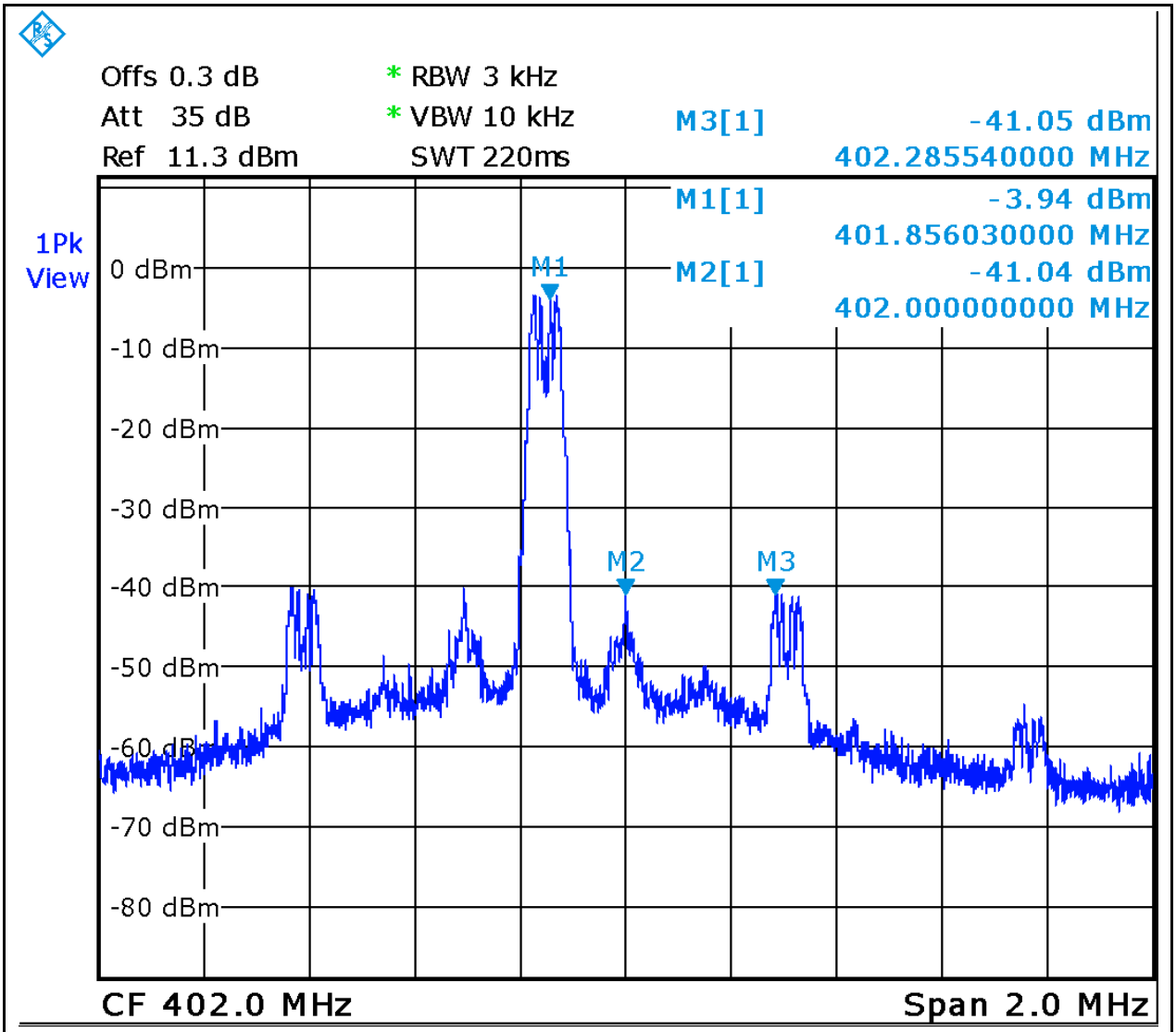
7.4.4 Test Result

Channel Frequency (MHz)	Measured Frequency F_H (MHz)	Emission Level F_H (dBm)	Measured Frequency F_L(MHz)	Emission Level F_L (dBm)	Δ (F_L-F_H) (dBc)	Limit dBc	Result
401.05	400.597	-40.870	401.056	-3.96	36.91	20	Pass
401.85	402.286	-41.050	401.856	-3.94	37.11	20	Pass
405.05	404.594	-39.490	405.026	-3.52	35.97	20	Pass
405.85	406.331	-40.240	405.837	-3.73	36.51	20	Pass

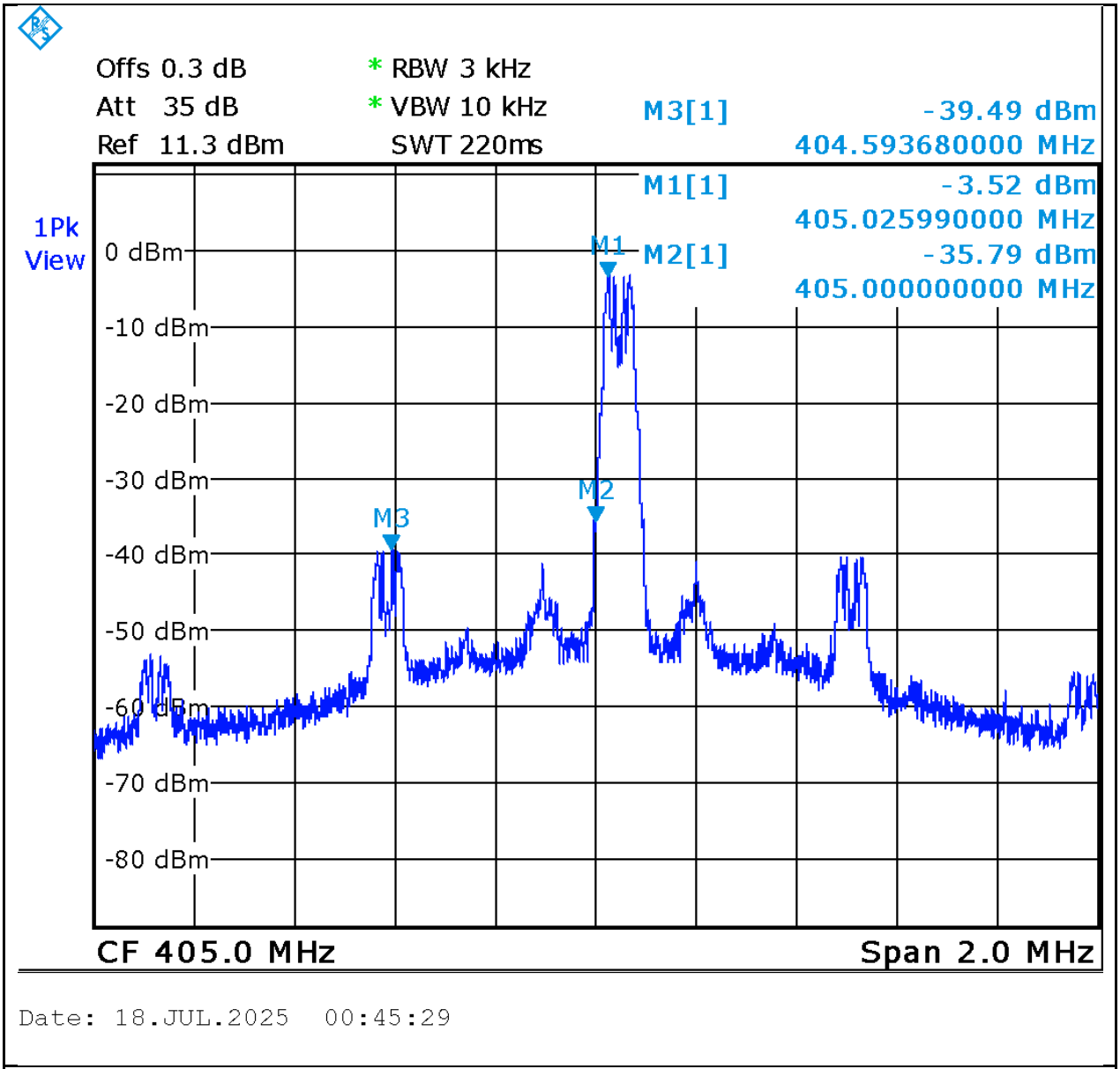
7.4.5 Test Plots



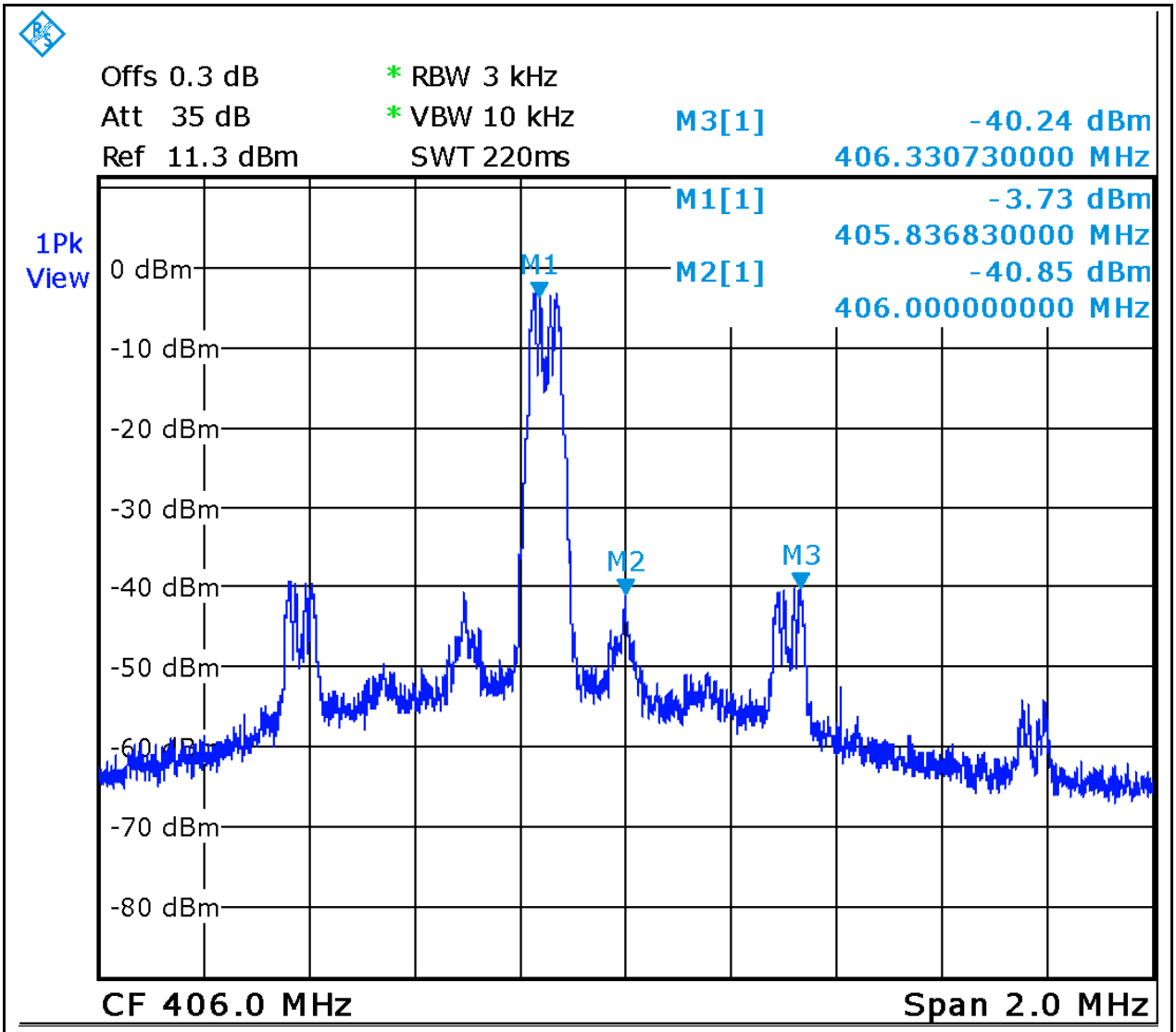
Low Band _ Low channel



Low Band _ High channel



High Band _ Low channel



High Band _ High channel

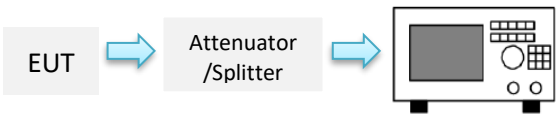
7.5 Transmitter conducted output power

7.5.1 Requirement

§ 2.1046, RSS-GEN § 6.12

No conducted output power limit requirement, reference only.

7.5.2 Test Setup



7.5.3 Test Procedure

1. Set analyser centre frequency to nominal EUT channel centre frequency.
2. Set the span wide enough to capture the fundamental emission bandwidth.
3. Set the RBW to: RBW ≥ 300 kHz.
4. Set the VBW ≥ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.

7.5.4 Test Result

Modulation	Frequency (MHz)	Measured Output power (dBm)	Limit (dBm)	Result
FSK	401.45	1.20	N/A	N/A
	405.45	1.39	N/A	N/A

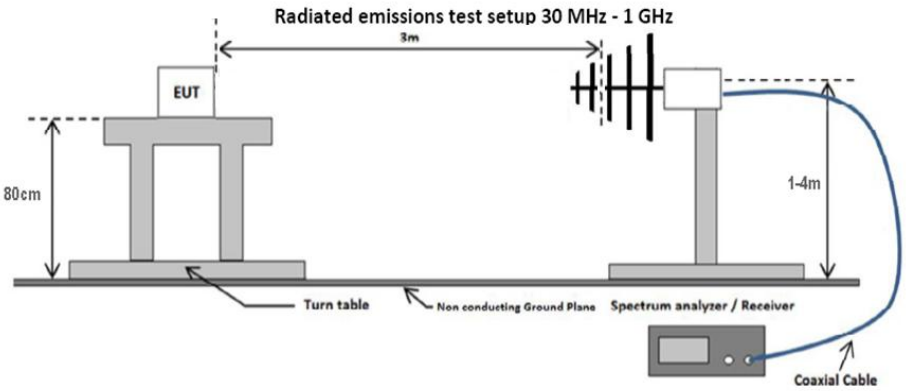
7.6 MedRadio equivalent isotropic radiated power (M-EIRP)

7.6.1 Requirement

§ 95.2567 (a) (2), RSS-243 §5.4

(2) The M-EIRP within any 100 kHz bandwidth within the 401-402 MHz or 405-406 MHz bands must not exceed 25 microwatts.

7.6.2 Test Setup



7.6.3 Test Procedure

According to ANSI C63.26-2015 clause 6.2.3

The medical implant transmitter must be configured to transmit continuously at maximum power over the measurement duration.

1. The EUT located at a nominal 1.5 m height above ground and at a 3 m distance from the measurement antenna, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
2. 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.
3. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
4. Following C63.26 section 5.5 and 5.2.7.

- EIRP (dBm) = E (dBµV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.
- ERP (dBm) = E (dBµV/m) + 20log(D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

5. Repeat above procedures until all measured frequencies were complete and record the results in the test report.

7.6.4 Test Result

Test standard	47 CFR Part 95 Subpart I RSS 243 Issue3, February 2010	Mode	Transmit Mode _ Low Band Mid CH
Frequency range	Below 1G	Test Date	07/15/2025
Antenna Type/Polarity	Bi-Log/Horizontal/Vertical	Test Personnel	Minoush Niknam
Remark	Orientation X-Tined Lead	Test Result	Pass

Frequency (MHz)	Raw (dBuV)	Cable loss (dB)	AF (dB/m)	Correct Factor (dB/m)	Degree	Hgt (cm)	Pol (V/H)	EIRP (dBm)	EIRP Limit (dBm)	Margin (dB)
401.450	73.73	6.4	-1.9	-90.76	230	100	V	-17.03	-16.02	-1.01
401.450	70.53	6.4	-1.9	-90.76	278	200	H	-20.23	-16.02	-4.21

Remarks:

1. EIRP (dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. AF (dB/m) = Antenna Factor(dB/m) – Pre-Amplifier Factor(dB)
3. Correct Factor = AF + Cable loss + 20log(D) – 104.8
4. Margin value = EIPR – Limit value

Test standard	47 CFR Part 95 Subpart I RSS 243 Issue3, February 2010	Mode	Transmit Mode _ Low Band Mid CH
Frequency range	Below 1G	Test Date	07/15/2025
Antenna Type/Polarity	Bi-Log/ Horizontal/Vertical	Test Personnel	Minoush Niknam
Remark	Orientation Y-Tined Lead	Test Result	Pass

Frequency (MHz)	Raw (dBuV)	Cable loss (dB)	AF (dB/m)	Correct Factor (dB/m)	Degree	Hgt (cm)	Pol (V/H)	EIRP (dBm)	EIRP Limit (dBm)	Margin (dB)
401.450	72.93	6.4	-1.9	-90.76	220	100	V	-17.83	-16.02	-1.81
401.450	69.33	6.4	-1.9	-90.76	378	200	H	-21.43	-16.02	-5.41

Remarks:

1. EIRP (dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. AF (dB/m) = Antenna Factor(dB/m) – Pre-Amplifier Factor(dB)
3. Correct Factor = AF + Cable loss + 20log(D) – 104.8
4. Margin value = EIPR – Limit value

Test standard	47 CFR Part 95 Subpart I RSS 243 Issue3, February 2010	Mode	Transmit Mode _High Band Mid CH
Frequency range	Below 1G	Test Date	07/15/2025
Antenna Type/Polarity	Bi-Log/Horizontal/Vertical	Test Personnel	Minoush Niknam
Remark	Orientation X-2XPNE	Test Result	Pass

Frequency (MHz)	Raw (dBuV)	Cable loss (dB)	AF (dB/m)	Correct Factor (dB/m)	Degree	Hgt (cm)	Pol (V/H)	EIRP (dBm)	EIRP Limit (dBm)	Margin (dB)
405.450	73.83	6.4	-2.0	-90.86	190	109	V	-17.03	-16.02	-1.01
405.450	70.83	6.4	-2.0	-90.86	210	221	H	-20.03	-16.02	-4.01

Remarks:

1. EIRP (dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. AF (dB/m) = Antenna Factor(dB/m) – Pre-Amplifier Factor(dB)
3. Correct Factor = AF + Cable loss + 20log(D) – 104.8
4. Margin value = EIRP – Limit value

Test standard	47 CFR Part 95 Subpart I RSS 243 Issue3, February 2010	Mode	Transmit Mode _High Band Mid CH
Frequency range	Below 1G	Test Date	07/15/2025
Antenna Type/Polarity	Bi-Log/ /Horizontal/Vertical	Test Personnel	Minoush Niknam
Remark	Orientation Y-2XPNE	Test Result	Pass

Frequency (MHz)	Raw (dBuV)	Cable loss (dB)	AF (dB/m)	Correct Factor (dB/m)	Degree	Hgt (cm)	Pol (V/H)	EIRP (dBm)	EIRP Limit (dBm)	Margin (dB)
405.450	73.33	6.4	-2.0	-90.86	190	109	V	-17.53	-16.02	-1.51
405.450	70.33	6.4	-2.0	-90.86	210	221	H	-20.53	-16.02	-4.51

Remarks:

1. EIRP (dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. AF (dB/m) = Antenna Factor(dB/m) – Pre-Amplifier Factor(dB)
3. Correct Factor = AF + Cable loss + 20log(D) – 104.8
4. Margin value = EIRP – Limit value

7.7 Transmitter Unwanted Spurious Emissions

7.7.1 Requirement

§ 95.2579, RSS-243 §5.5

(a) (2)More than 100 kHz outside of either the 401-402 MHz or 405-406 MHz bands (for devices designed to operate in the 401-402 MHz or 405-406 MHz bands);

(a) (3) In the 406.000-406.100 MHz band (for devices designed to operate in the 401-402 MHz or 405-406 MHz bands);

Frequency Range (MHZ)	Field Strength (μV/m)
30 – 88	100
88 – 216	150
216 960	200
Above 960	500

Radiated unwanted emissions from a MedRadio transmitter type must be measured to at least the tenth harmonic of the highest fundamental frequency emitted.

(b) Harmonic emissions. Radiated unwanted emissions from a MedRadio transmitter type must be measured to at least the tenth harmonic of the highest fundamental frequency emitted.

(d) Attenuation requirements, 401-402 MHz, 405-406 MHz. For MedRadio transmitter types designed to operate in the 401-402 MHz band or 405-406 MHz band, the power of unwanted emissions must be attenuated below the maximum permitted transmitter output power by at least:

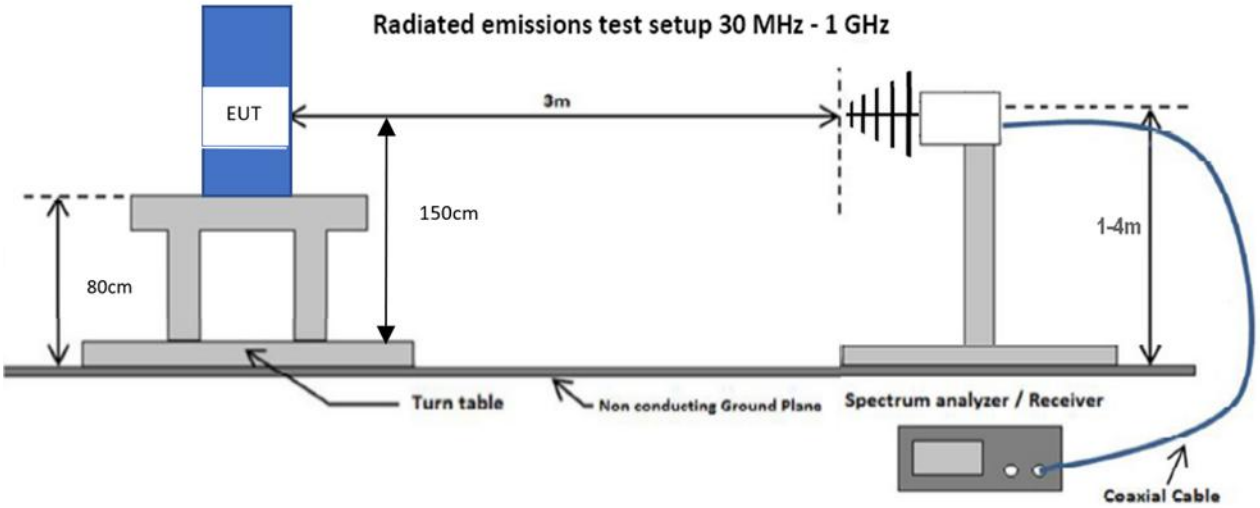
(1) 20 dB, on any frequency within the 401-401.85 MHz or 405-406 MHz bands that is:

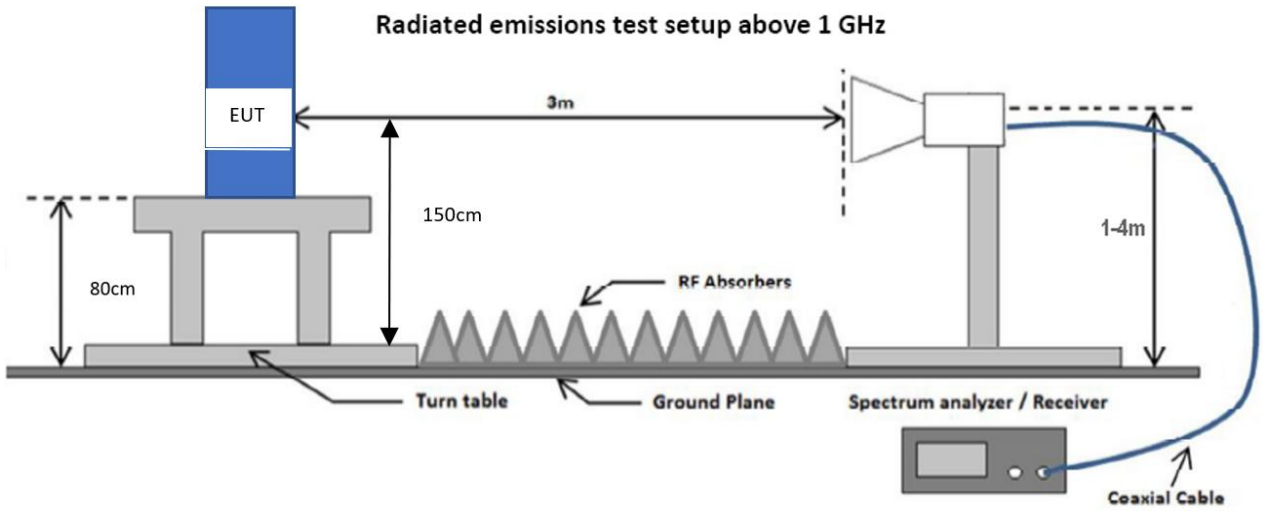
(i) More than 75 kHz away from the center frequency of the MedRadio channel the transmission is intended to occupy if the MedRadio transmitter type is operating on a frequency between 401.85 and 402 MHz; or,

(ii) More than 50 kHz away from the center frequency of the MedRadio channel the transmission is intended to occupy and 100 kHz or less below 401 MHz or above 406 MHz.

(2) 20 dB, on any frequency between 400.900 MHz and 401.000 MHz, and on any frequency between 406.000 MHz and 406.100 MHz.

7.7.2 Test Setup





7.7.3 Test Procedure

According to ANSI C63.26-2015 clause 5.5.2

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:

a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.

b. The EUT was then rotated to the direction that gave the maximum emission.

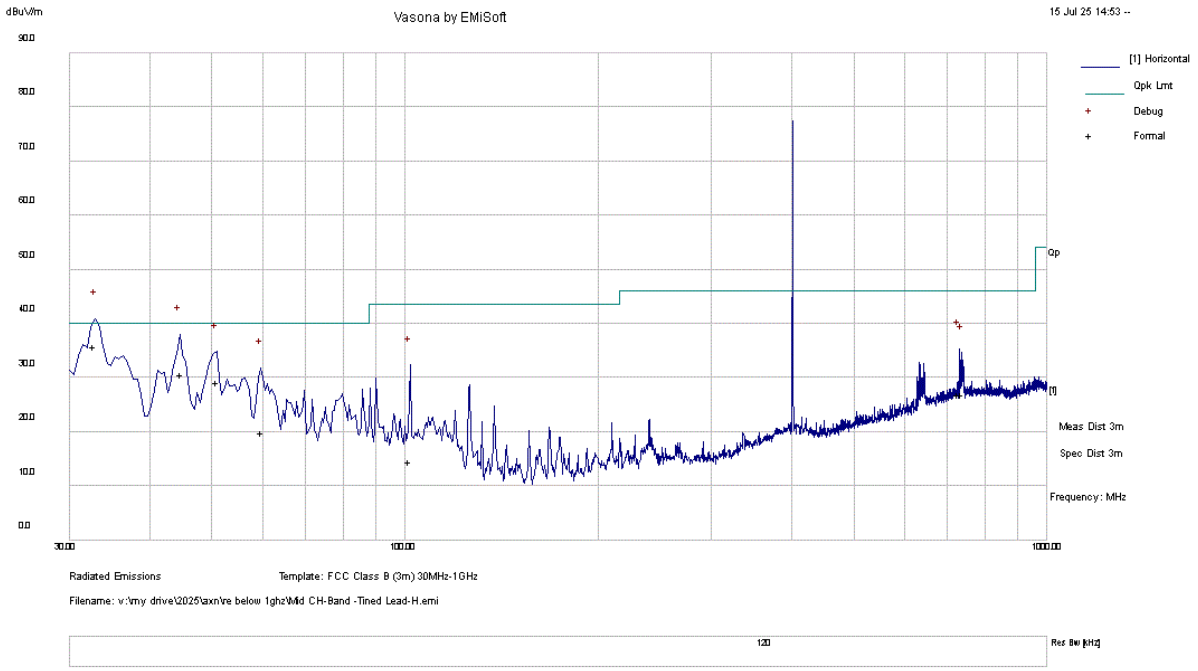
c. Finally, the antenna height was adjusted to the height that gave the maximum emission.

3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz for frequency below 150KHz.
4. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 10 kHz for frequency between 150KHz – 30MHz.
5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-Peak detection at frequency between 30MHz - 1GHz.
6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak and average measurement at frequency above 1GHz.
7. Steps 2 and 3/4/5/6 were repeated for the next frequency point, until all selected frequency points were measured.

7.7.4 Test Result

RADIATED EMISSIONS BELOW 1 GHZ

Test Standard:	§ 95.2579, RSS-243	Mode:	Mid Channel
Frequency Range:	30 MHz - 1 GHz	Test Date:	07/15/2025
Antenna Type/Polarity:	Bi-Log / Horizontal	Test Personnel:	Minoush Niknam
Remark:	Low Band-Tined Lead	Test Result:	Pass



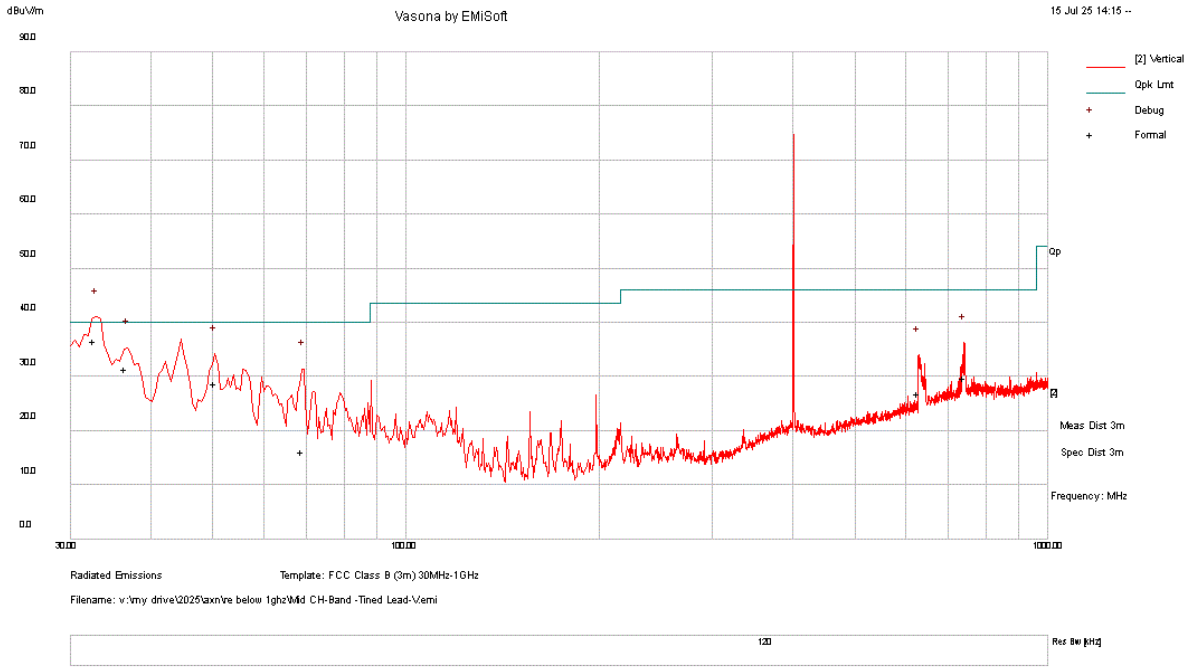
No.	Frequency MHz	Raw dBuV	Cable Loss dB	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	32.755	39.1	2.3	-5.6	35.8	Quasi Max	H	100	135	40.0	-4.2	Pass
2	44.776	40.1	2.7	-12.1	30.7	Quasi Max	H	133	42	40.0	-9.3	Pass
3	51.003	40.1	2.8	-13.7	29.2	Quasi Max	H	125	284	40.0	-10.8	Pass
4	59.823	30.6	3.0	-13.6	20.0	Quasi Max	H	140	210	40.0	-20.0	Pass
5	729.396	16.5	7.3	3.2	27.1	Quasi Max	H	123	0	46.0	-18.9	Pass
6	101.58	23.1	3.6	-12.1	14.6	Quasi Max	H	100	52	43.5	-28.9	Pass
7	736.269	16.4	7.3	3.3	27.0	Quasi Max	H	370	58	46.0	-19.0	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF (dB/m) = Antenna Factor (dB) – Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)
4. No emissions found, noise floor only.
5. The frequency near 401 MHz represents the fundamental.

RADIATED EMISSIONS BELOW 1 GHZ

Test Standard:	§ 95.2579, RSS-243	Mode:	Mid Channel
Frequency Range:	30 MHz - 1 GHz	Test Date:	07/15/2025
Antenna Type/Polarity:	Bi-Log / Vertical	Test Personnel:	Minoush Niknam
Remark:	Low Band- Tined Lead	Test Result:	Pass



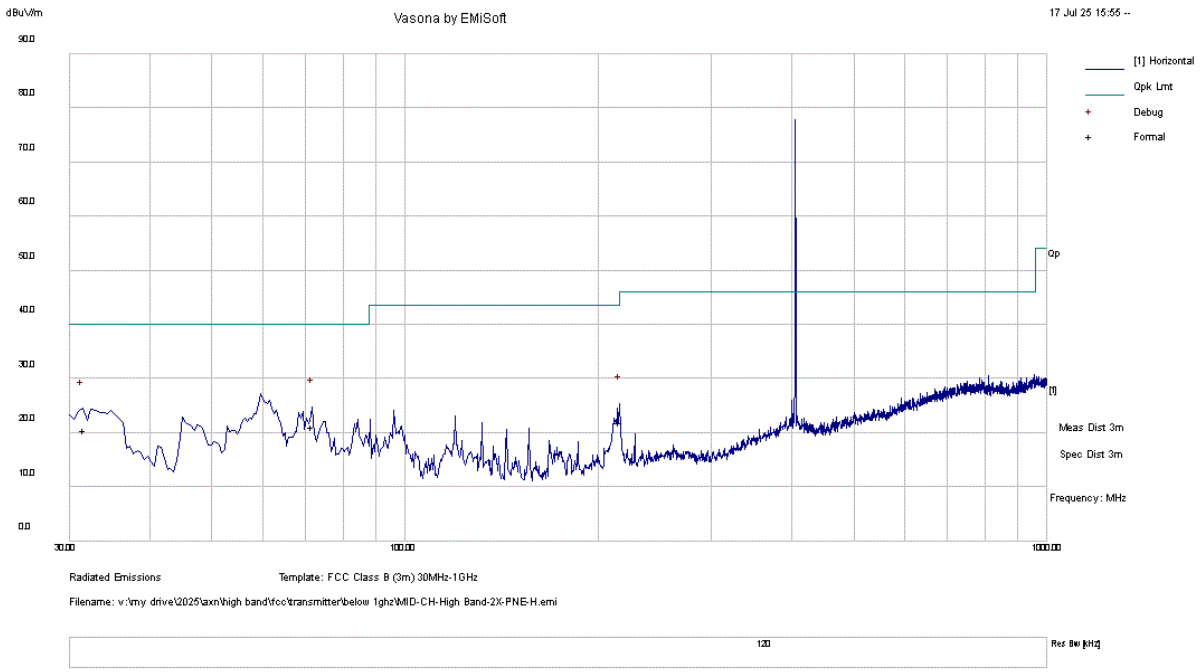
No.	Frequency MHz	Raw dBuV	Cable Loss dB	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	32.712	40.0	2.3	-5.6	36.7	Quasi Max	V	156	27	40	-3.3	Pass
2	36.554	36.9	2.4	-7.8	31.5	Quasi Max	V	139	0	40	-8.5	Pass
3	50.406	39.7	2.8	-13.7	28.9	Quasi Max	V	123	110	40	-11.1	Pass
4	69.044	26.2	3.2	-13	16.3	Quasi Max	V	185	133	40	-23.7	Pass
5	740.335	19.1	7.3	3.4	29.8	Quasi Max	V	211	190	46	-16.2	Pass
6	629.114	18.3	7.2	1.6	27.0	Quasi Max	V	102	64	46	-19.0	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF (dB/m) = Antenna Factor (dB) – Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)
4. No emissions found, noise floor only.
5. The frequency near 401 MHz represents the fundamental.

RADIATED EMISSIONS BELOW 1 GHZ

Test Standard:	§ 95.2579, RSS-243	Mode:	Mid Channel
Frequency Range:	30 MHz - 1 GHz	Test Date:	07/17/2025
Antenna Type/Polarity:	Bi-Log / Horizontal	Test Personnel:	Minoush Niknam
Remark:	High Band-2XPNE	Test Result:	Pass



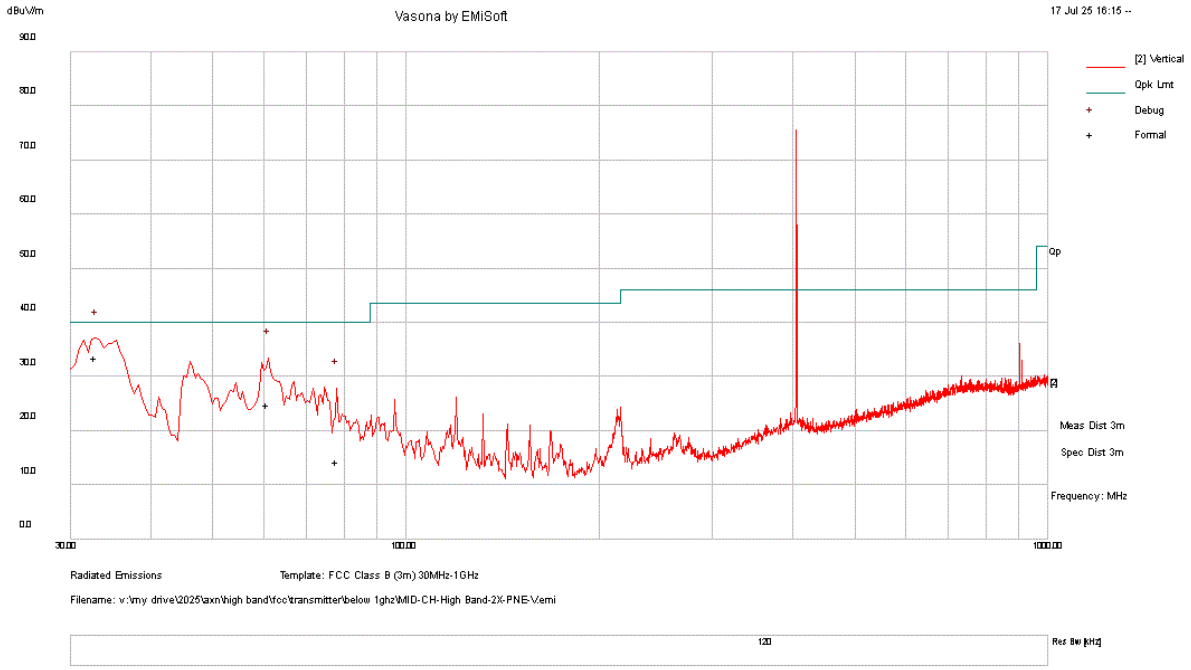
No.	Frequency MHz	Raw dBuV	Cable Loss dB	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	71.868	31.0	3.2	-13.0	21.2	Quasi Max	H	174	322	40.0	-18.8	Pass
2	31.682	23.3	2.3	-5.0	20.6	Quasi Max	H	210	24	40.0	-19.4	Pass
3	215.999	26.2	4.9	-9.2	21.9	Quasi Max	H	122	39	43.5	-21.6	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF (dB/m) = Antenna Factor (dB) – Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)
4. No emissions found, noise floor only.
5. The frequency near 405 MHz represents the fundamental.

RADIATED EMISSIONS BELOW 1 GHZ

Test Standard:	§ 95.2579, RSS-243	Mode:	Mid Channel
Frequency Range:	30 MHz - 1 GHz	Test Date:	07/17/2025
Antenna Type/Polarity:	Bi-Log / Vertical	Test Personnel:	Minoush Niknam
Remark:	High Band	Test Result:	Pass



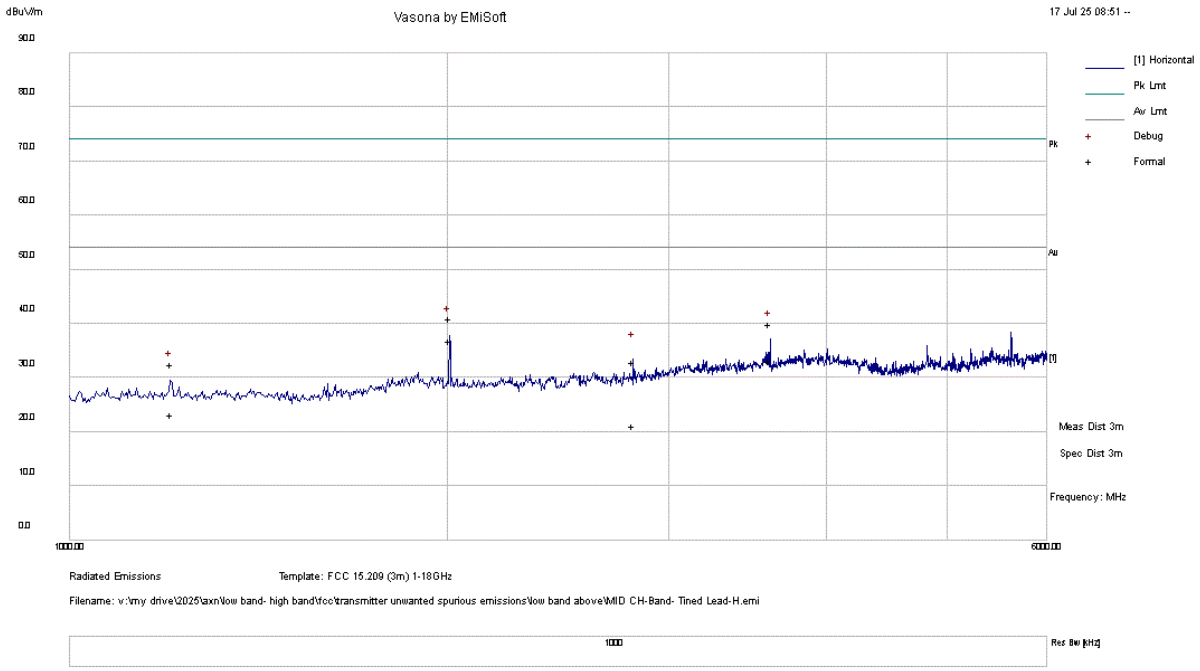
No.	Frequency MHz	Raw dBuV	Cable Loss dB	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	32.855	37.0	2.3	-5.7	33.6	Quasi Max	V	125	268	40	-6.4	Pass
2	60.887	35.5	3.0	-13.5	25.0	Quasi Max	V	224	347	40	-15.0	Pass
3	78.032	24.4	3.3	-13.2	14.5	Quasi Max	V	141	42	40	-25.5	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF (dB/m) = Antenna Factor (dB) – Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)
4. No emissions found, noise floor only.
5. The frequency near 405 MHz represents the fundamental.

RADIATED EMISSIONS 1 - 6 GHZ

Test Standard:	§ 95.2579, RSS-243	Mode:	Mid channel
Frequency Range:	1 GHz – 6 GHz	Test Date:	07/17/2025
Antenna Type/Polarity:	Horn/Horizontal	Test Personnel:	Minoush Niknam
Remark:	Low Band-Tined Lead	Test Result:	Pass



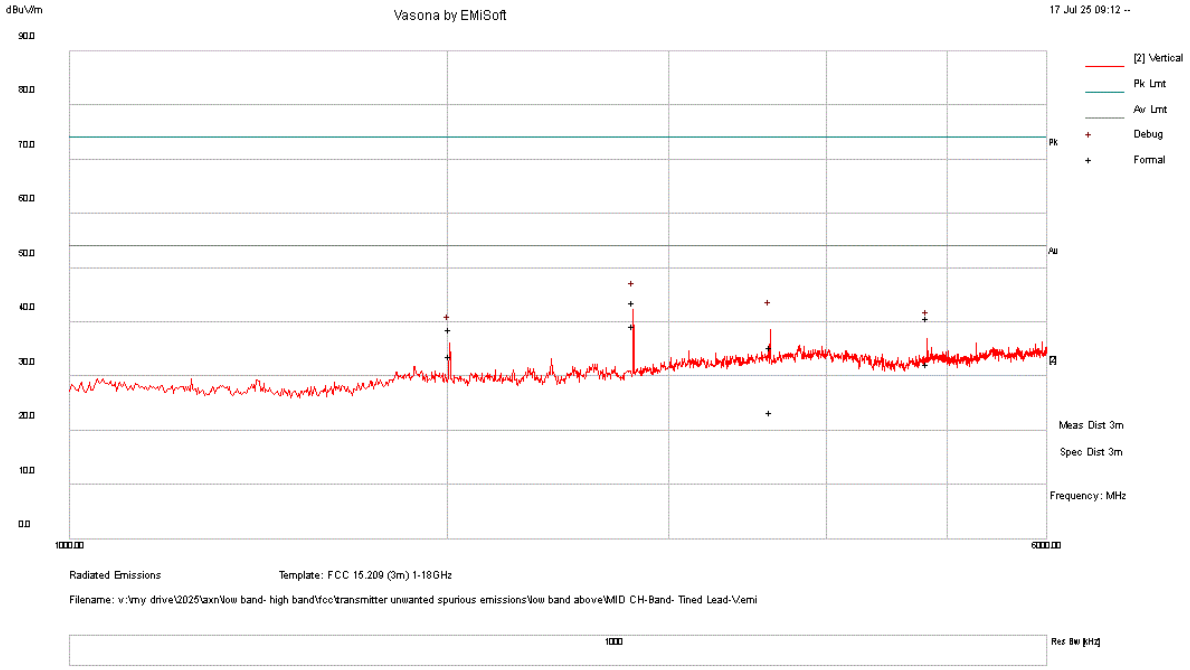
No.	Frequency MHz	Raw dBuV	Cable Loss dB	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	2007.358	34.4	6.4	0.3	41.0	Peak Max	H	100	0	74	-33.0	Pass
2	3612.728	27.0	8.5	4.5	40.0	Peak Max	H	110	17	74	-34.0	Pass
3	2810.649	24.2	7.3	1.5	33.0	Peak Max	H	128	180	74	-41.0	Pass
4	1204.665	28.9	4.6	-1.2	32.4	Peak Max	H	157	1	74	-41.6	Pass
5	2007.358	30.1	6.4	0.3	36.8	Average Max	H	100	0	54	-17.2	Pass
6	3612.728	20.1	8.5	4.5	33.1	Average Max	H	110	17	54	-20.9	Pass
7	2810.649	12.3	7.3	1.5	21.1	Average Max	H	128	180	54	-32.9	Pass
8	1204.665	19.8	4.6	-1.2	23.3	Average Max	H	157	1	54	-30.7	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF (dB/m) = Antenna Factor (dB) – Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

RADIATED EMISSIONS 1 – 6 GHZ

Test Standard:	§ 95.2579, RSS-243	Mode:	Mid channel
Frequency Range:	1 GHz – 6 GHz	Test Date:	07/17/2025
Antenna Type/Polarity:	Horn/Vertical	Test Personnel:	Minoush Niknam
Remark:	Low Band-Tined Lead	Test Result:	Pass



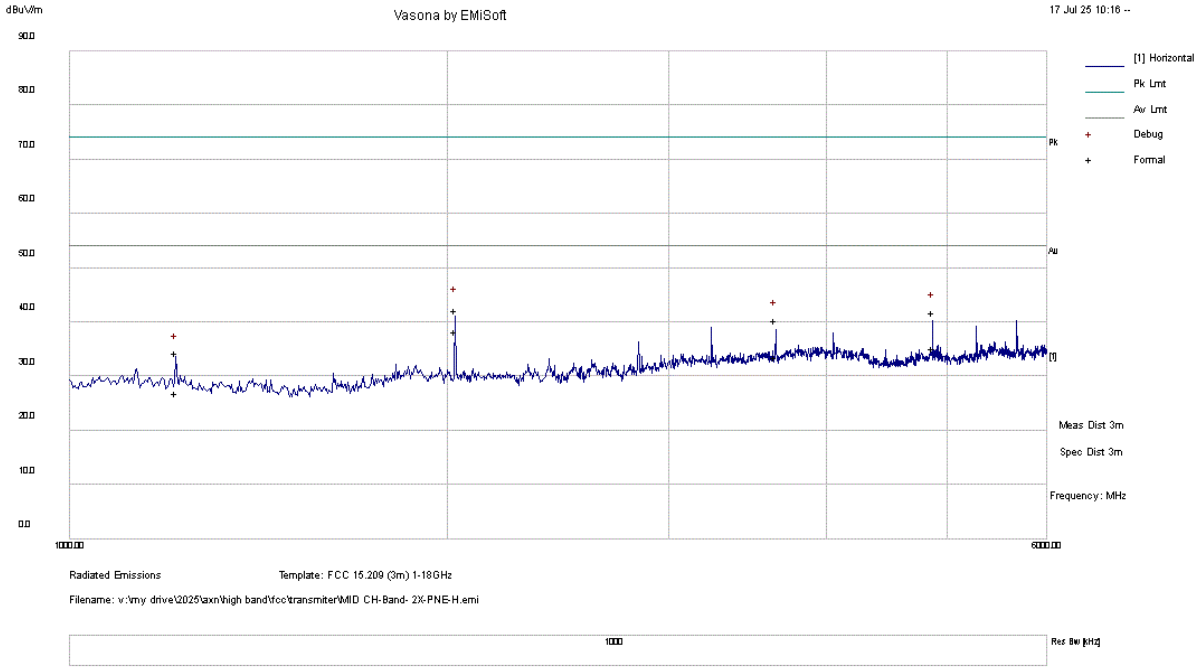
No.	Frequency MHz	Raw dBuV	Cable Loss dB	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	2809.920	34.8	7.3	1.5	43.6	Peak Max	V	100	0	74	-30.4	Pass
2	3614.058	22.5	8.5	4.5	35.5	Peak Max	V	101	3	74	-38.5	Pass
3	4817.023	25.6	9.2	6.0	40.8	Peak Max	V	101	8	74	-33.2	Pass
4	2007.243	32.0	6.4	0.3	38.6	Peak Max	V	133	9	74	-35.4	Pass
5	2809.92	30.5	7.3	1.5	39.3	Average Max	V	100	0	54	-14.7	Pass
6	3614.058	10.5	8.5	4.5	23.5	Average Max	V	101	3	54	-30.5	Pass
7	4817.023	17.0	9.2	6.0	32.2	Average Max	V	101	8	54	-21.8	Pass
8	2007.243	27.2	6.4	0.3	33.9	Average Max	V	133	9	54	-20.1	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF (dB/m) = Antenna Factor (dB) – Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

RADIATED EMISSIONS 1 - 6 GHZ

Test Standard:	§ 95.2579, RSS-243	Mode:	Mid channel
Frequency Range:	1 GHz – 6 GHz	Test Date:	07/15/2025
Antenna Type/Polarity:	Horn/Horizontal	Test Personnel:	Minoush Niknam
Remark:	High Band-2XPNE	Test Result:	Pass



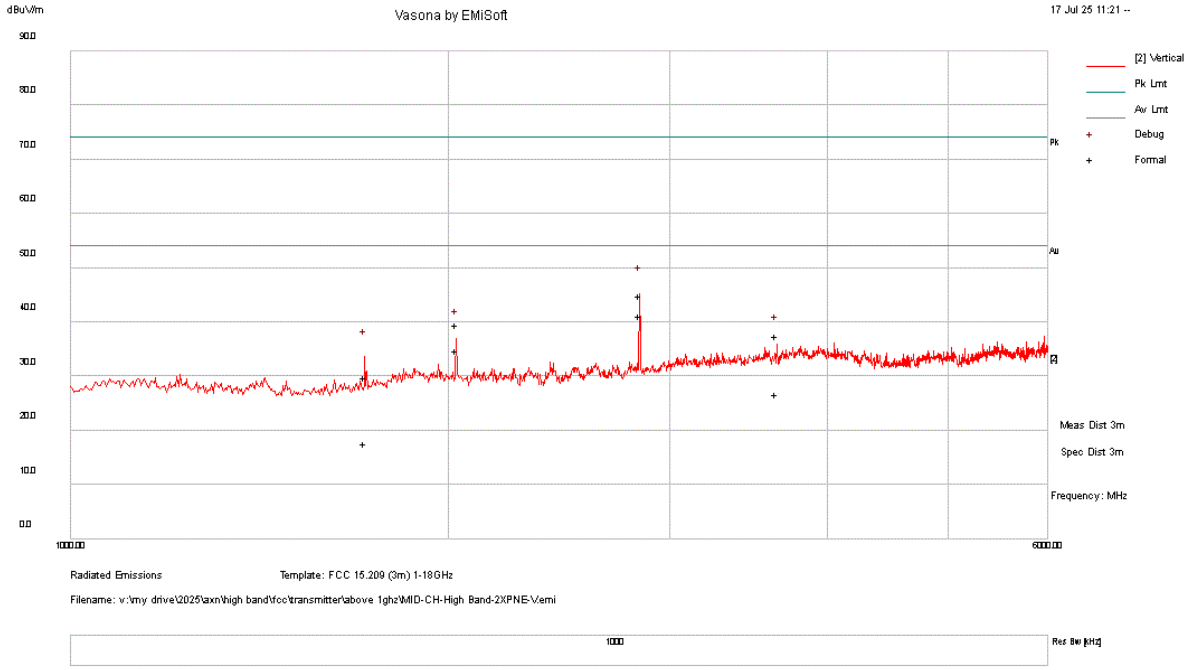
No.	Frequency MHz	Raw dBuV	Cable Loss dB	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	2027.325	35.6	6.4	0.2	42.2	Peak Max	H	122	33	74	-31.8	Pass
2	4865.203	26.6	9.3	5.9	41.8	Peak Max	H	125	40	74	-32.2	Pass
3	3649.228	27.3	8.6	4.5	40.4	Peak Max	H	100	15	74	-33.6	Pass
4	1216.180	30.8	4.7	-1.1	34.4	Peak Max	H	148	19	74	-39.6	Pass
5	2027.325	31.8	6.4	0.2	38.4	Average Max	H	122	33	54	-15.6	Pass
6	4865.203	20.0	9.3	5.9	35.2	Average Max	H	125	40	54	-18.8	Pass
7	3649.228	20.5	8.6	4.5	33.6	Average Max	H	100	15	54	-20.4	Pass
8	1216.180	23.3	4.7	-1.1	26.9	Average Max	H	148	19	54	-27.1	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF (dB/m) = Antenna Factor (dB) – Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

RADIATED EMISSIONS 1 – 6 GHZ

Test Standard:	§ 95.2579, RSS-243	Mode:	Mid channel
Frequency Range:	1 GHz – 6 GHz	Test Date:	07/15/2025
Antenna Type/Polarity:	Horn/Vertical	Test Personnel:	Minoush Niknam
Remark:	High Band-2XPNE	Test Result:	Pass



No.	Frequency MHz	Raw dBuV	Cable Loss dB	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	2837.993	35.9	7.3	1.6	44.9	Peak Max	V	134	8	74	-29.1	Pass
2	2027.283	33.0	6.4	0.2	39.5	Peak Max	V	106	8	74	-34.5	Pass
3	3649.539	24.3	8.6	4.5	37.5	Peak Max	V	126	0	74	-36.5	Pass
4	1716.930	25.2	5.9	-1.3	29.8	Peak Max	V	119	168	74	-44.2	Pass
5	2837.993	32.2	7.3	1.6	41.2	Average Max	V	134	8	54	-12.8	Pass
6	2027.283	28.2	6.4	0.2	34.8	Average Max	V	106	8	54	-19.2	Pass
7	3649.539	13.7	8.6	4.5	26.8	Average Max	V	126	0	54	-27.2	Pass
8	1716.930	13.1	5.9	-1.3	17.7	Average Max	V	119	168	54	-36.3	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF (dB/m) = Antenna Factor (dB) – Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

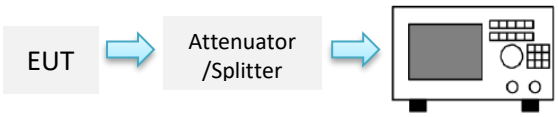
7.8 Conducted Spurious Emissions

7.8.1 Requirement

§ 2.1051; RSS-GEN

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in § 2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

7.8.2 Test setup

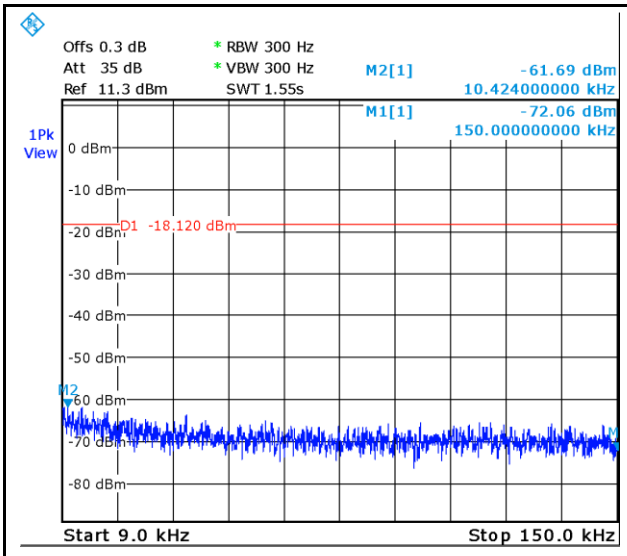


7.8.3 Test Procedure

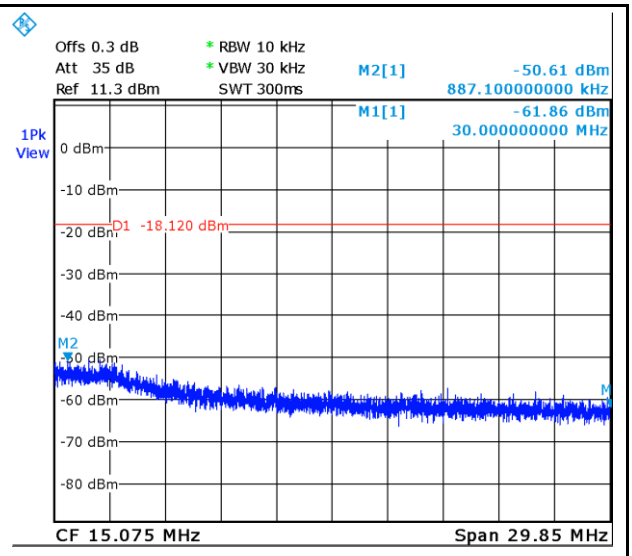
According to ANSI C63.26-2015 clause 5.7

1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. 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. Set RBW=100 KHZ, VBW=300 KHZ, Peak Detector for below 1000MHz and RBW=1 MHZ, VBW=3 MHZ for above 1000MHz. Any emissions found in the preliminary measurement to exceed the applicable limit(s) shall be further examined using a power averaging (rms) detector with the minimum number of measurement points as defined above.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete and record the results in the test report.

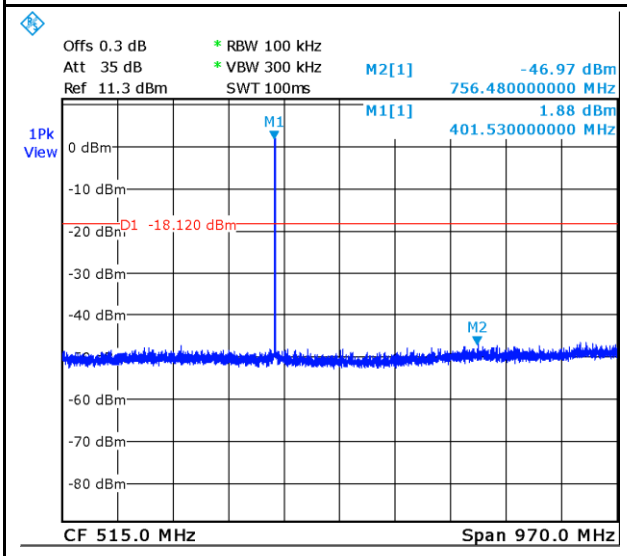
7.8.4 Test Result



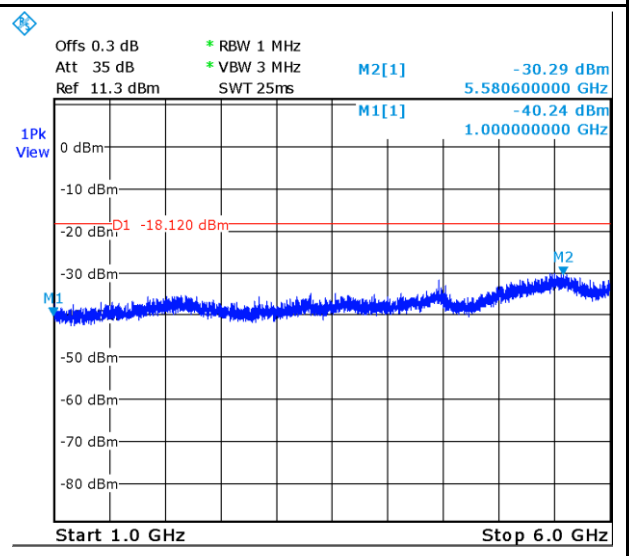
CSE__Low Band- Mid- CH-9KHz-150 KHz



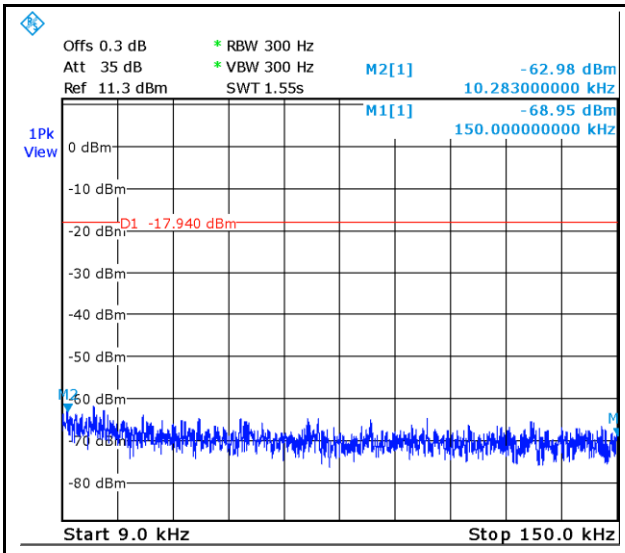
CSE__Low Band- Mid- CH-15MHz-30 MHz



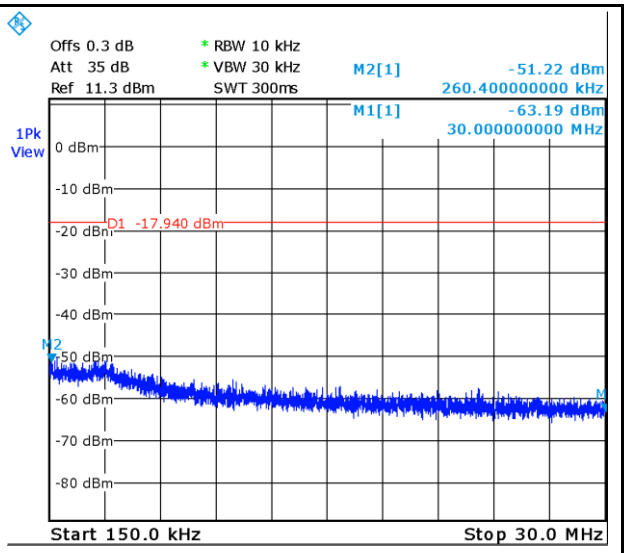
CSE__Low Band- Mid- CH-30MHz-1GHz



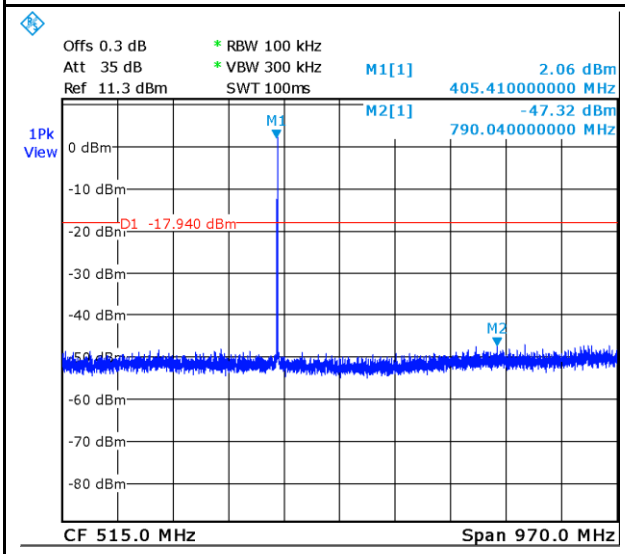
CSE__Low Band- Mid- CH-1GHz-6GHz



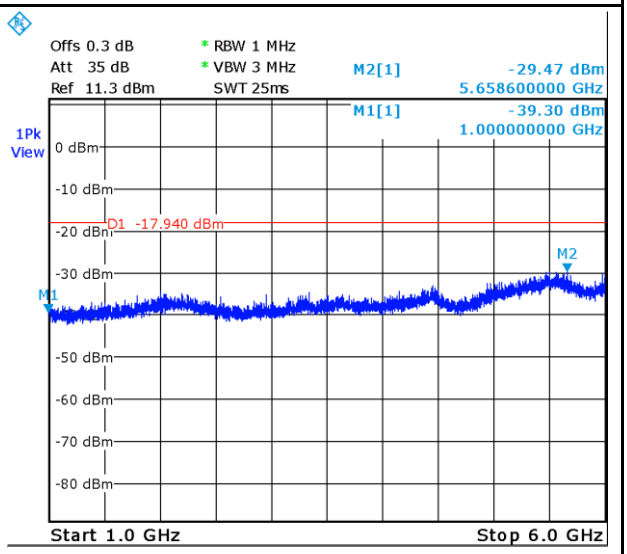
CSE__High Band- Mid- CH-9KHz-150 KHz



CSE__High Band- Mid- CH-15MHz-30 MHz



CSE__High Band- Mid- CH-30MHz-1GHz



CSE__High Band- Mid- CH-1GHz-6GHz

7.9 Receiver Spurious Emissions

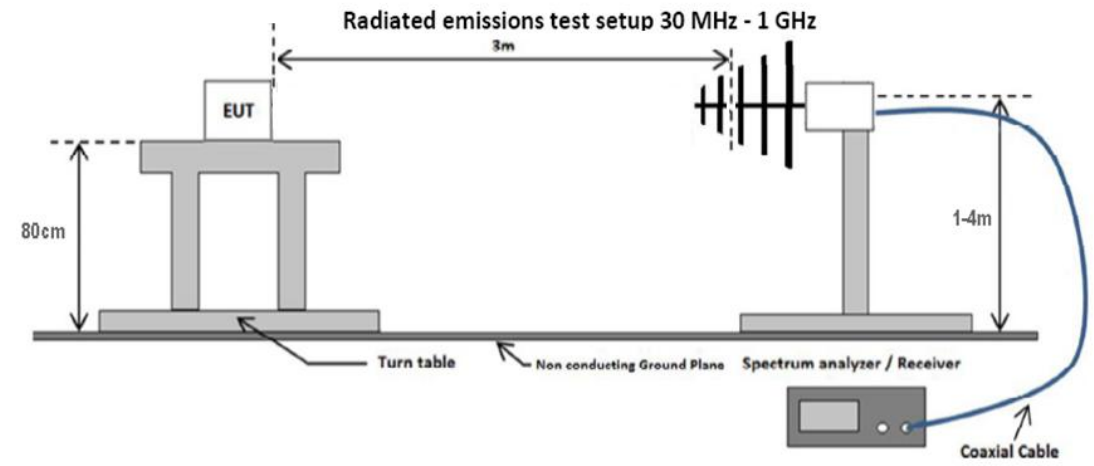
7.9.1 Requirement

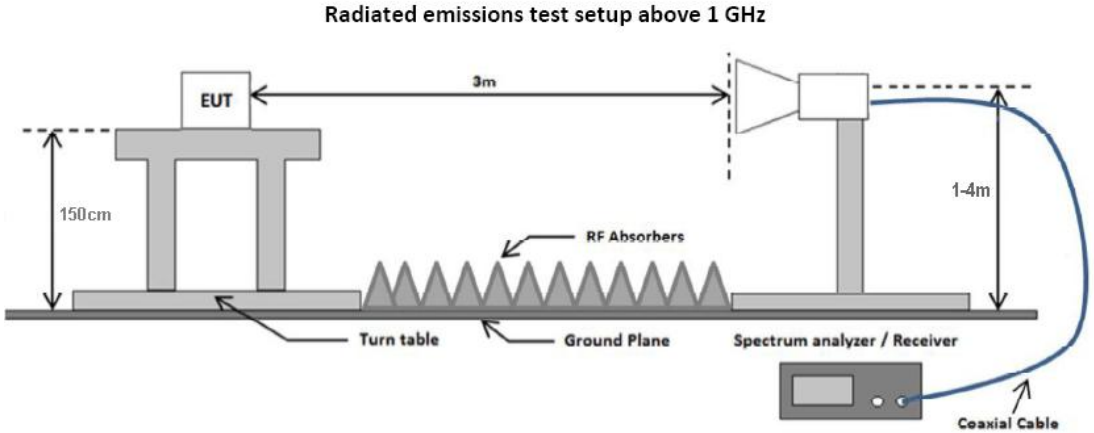
RSS-243 §5.6; RSS-GEN §7.3

(Radiated emission measurements shall be performed with the receiver antenna connected to the receiver antenna ports. The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least five times the highest tunable or local oscillator frequency, whichever is higher, without exceeding 40 GHz.

Frequency Range (MHZ)	Field Strength (μV/m) at 3m
30 – 88	100
88 – 216	150
216 960	200
Above 960	500

7.9.2 Test Setup





7.9.3 Test Procedure

According to ANSI C63.26-2015 clause 5.5.2

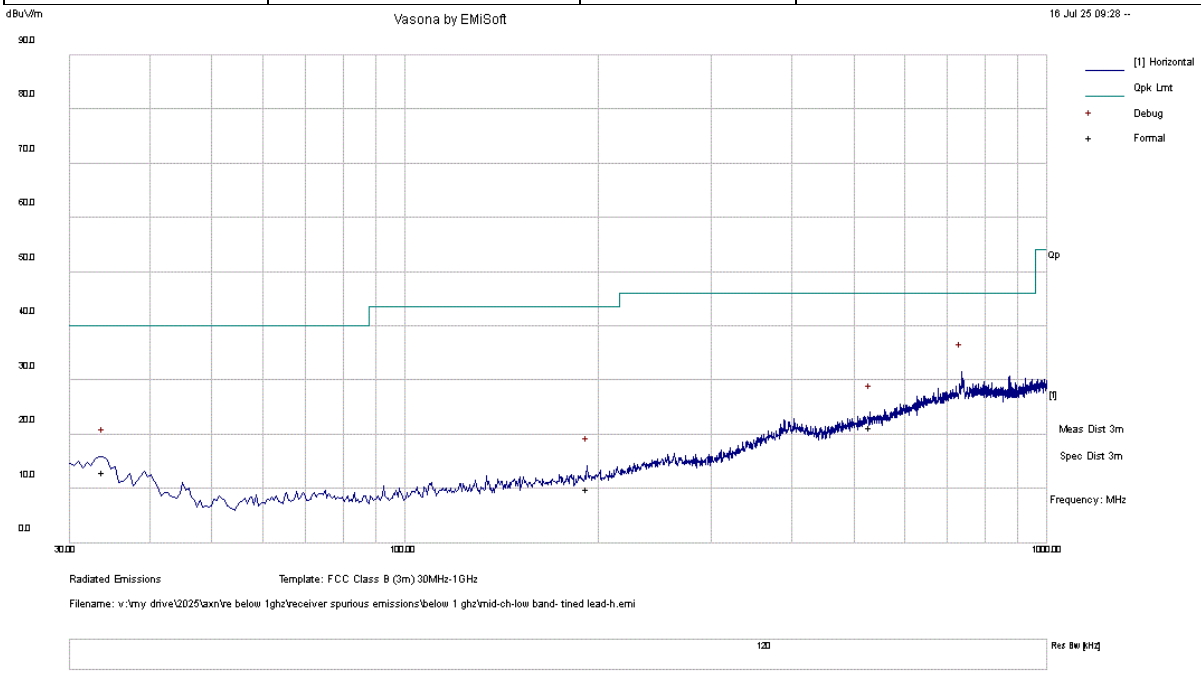
1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:
   a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.
   b. The EUT was then rotated to the direction that gave the maximum emission.
   c. Finally, the antenna height was adjusted to the height that gave the maximum emission.
3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz for frequency below 150KHz.
4. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 10 kHz for frequency between 150KHz – 30MHz.
5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-Peak detection at frequency between 30MHz - 1GHz.
6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak and average measurement at frequency above 1GHz.

7. Steps 2 and 3/4/5/6 were repeated for the next frequency point, until all selected frequency points were measured.

7.9.4 Test Result

RADIATED EMISSIONS BELOW 1 GHZ

Test Standard:	RSS-243, RSS-GEN	Mode:	Receiver mode, Mid CH
Frequency Range:	30 MHz - 1 GHz	Test Date:	07/16/2025
Antenna Type/Polarity:	Bi-Log/Horizontal	Test Personnel:	Minoush Niknam
Remark:	Low Band-Tined Lead	Test Result:	Pass



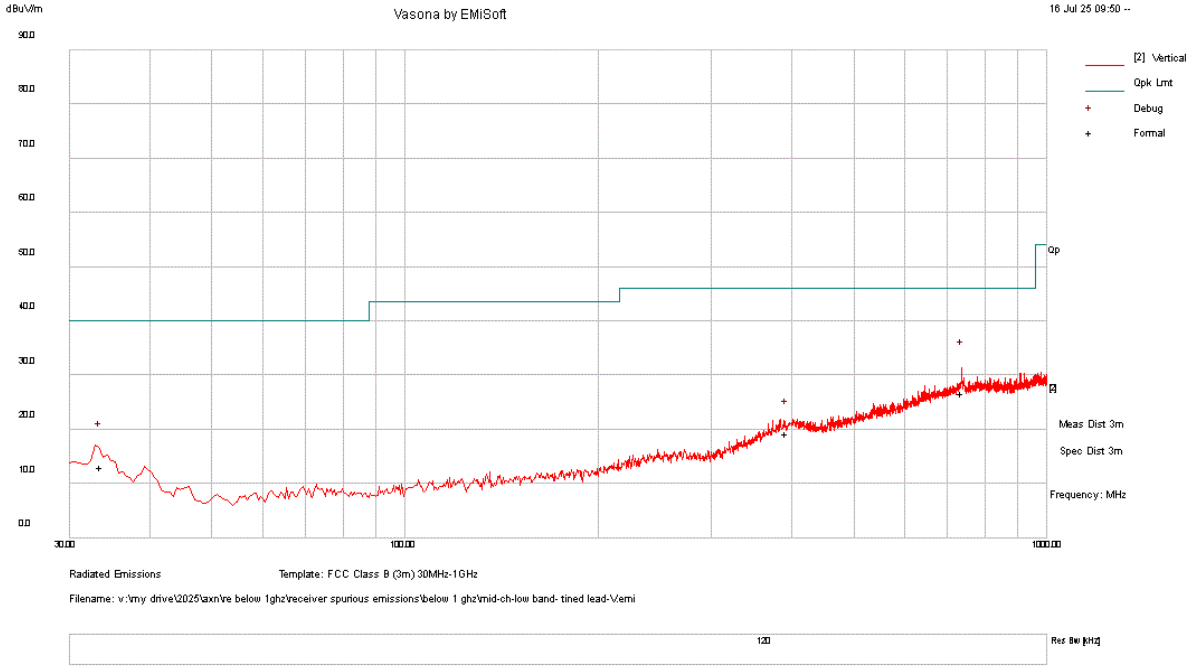
No.	Frequency MHz	Raw dBuV	Cable Loss	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	530.174	15.5	6.4	-0.5	21.4	Quasi Max	H	387	235	46.0	-24.6	Pass
2	33.856	17.1	2.4	-6.3	13.2	Quasi Max	H	154	0	40.0	-26.8	Pass
3	192.138	15.6	4.7	-10.2	10.1	Quasi Max	H	305	189	43.5	-33.4	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF (dB/m) = Antenna Factor (dB) – Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

RADIATED EMISSIONS BELOW 1 GHZ

Test Standard:	RSS-243, RSS-GEN	Mode:	Receiver mode, Mid CH
Frequency Range:	30 MHz - 1 GHz	Test Date:	07/16/2025
Antenna Type/Polarity:	Bi-Log/Vertical	Test Personnel:	Minoush Niknam
Remark:	Low Band-Tined Lead	Test Result:	Pass



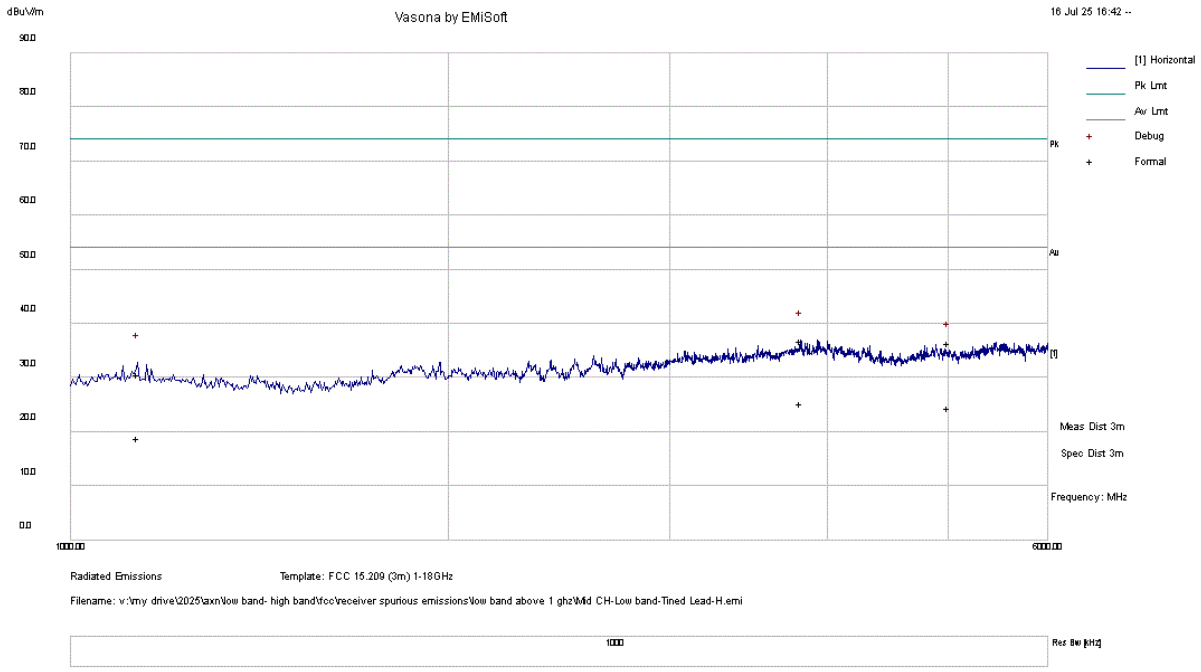
No.	Frequency MHz	Raw dBuV	Cable Loss	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	735.961	16.2	7.3	3.3	26.8	Quasi Max	V	261	178	46	-19.2	Pass
2	33.547	16.9	2.3	-6.1	13.2	Quasi Max	V	106	339	40	-26.8	Pass
3	392.049	15.4	6.3	-2.3	19.4	Quasi Max	V	100	70	46	-26.6	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF (dB/m) = Antenna Factor (dB) – Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

RADIATED EMISSIONS 1 - 6 GHZ

Test Standard:	RSS-243, RSS-GEN	Mode:	Receiver mode, Mid CH
Frequency Range:	1 GHz – 6 GHz	Test Date:	07/16/2025
Antenna Type/Polarity:	Horn/Horizontal	Test Personnel:	Minoush Niknam
Remark:	High Band-2XPNE	Test Result:	Pass



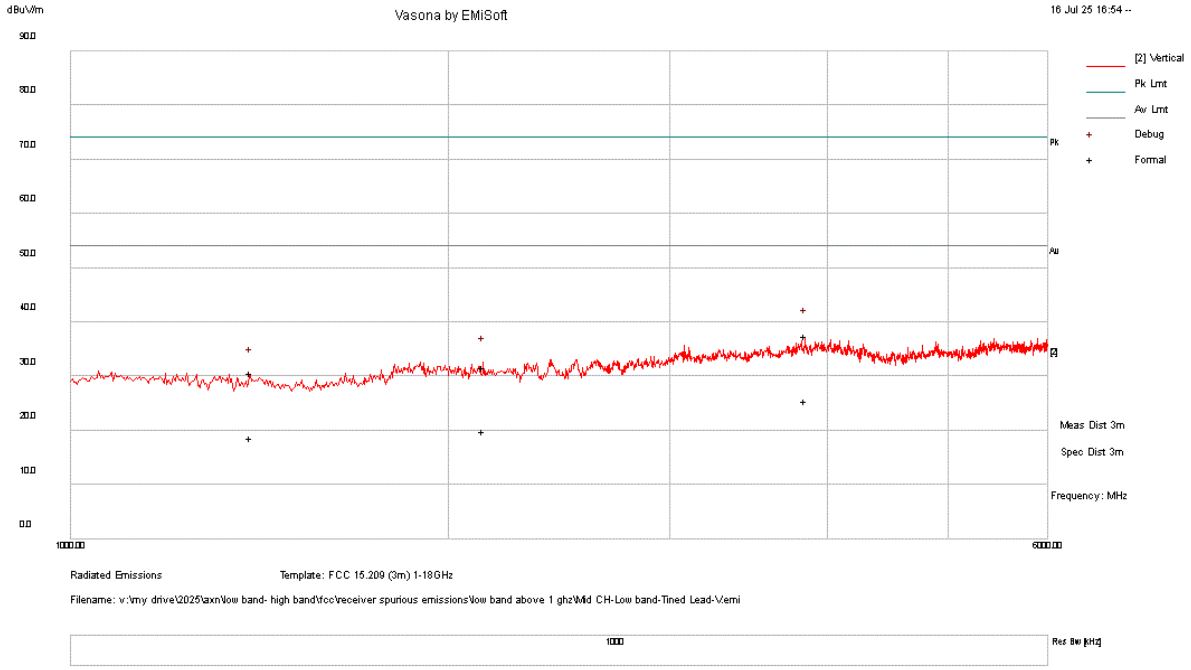
No.	Frequency MHz	Raw dBuV	Cable Loss	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	3813.998	22.5	9.1	5.4	36.9	Peak Max	H	147	14	74	-37.1	Pass
2	5002.776	21.3	9.5	5.6	36.4	Peak Max	H	109	146	74	-37.6	Pass
3	1131.73	27.8	4.4	-1.4	30.8	Peak Max	H	128	119	74	-43.2	Pass
4	3813.998	10.8	9.1	5.4	25.3	Average Max	H	147	14	54	-28.7	Pass
5	5002.776	9.4	9.5	5.6	24.6	Average Max	H	109	146	54	-29.4	Pass
6	1131.73	15.8	4.4	-1.4	18.8	Average Max	H	128	119	54	-35.2	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF (dB/m) = Antenna Factor (dB) – Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

RADIATED EMISSIONS 1 – 6 GHZ

Test Standard:	RSS-243, RSS-GEN	Mode:	Receiver mode, Mid CH
Frequency Range:	1 GHz – 6 GHz	Test Date:	07/16/2025
Antenna Type/Polarity:	Horn/Vertical	Test Personnel:	Minoush Niknam
Remark:	High Band-2XPNE	Test Result:	Pass



No.	Frequency MHz	Raw dBuV	Cable Loss	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	3843.213	22.7	9.2	5.5	37.5	Peak Max	V	102	82	74	-36.5	Pass
2	2129.962	25.1	6.4	0.1	31.6	Peak Max	V	133	35	74	-42.4	Pass
3	1392.227	26.9	5.0	-1.2	30.7	Peak Max	V	140	155	74	-43.3	Pass
4	3843.213	10.8	9.2	5.5	25.5	Average Max	V	102	82	54	-28.5	Pass
5	2129.962	13.5	6.4	0.1	20.0	Average Max	V	133	35	54	-34.0	Pass
6	1392.227	14.9	5.0	-1.2	18.7	Average Max	V	140	155	54	-35.3	Pass

Remarks:

1. Level (dBuV) = Raw (dBuV) + Cable loss(dB) + AF (dB).
2. AF (dB/m) = Antenna Factor (dB) – Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

8 EUT and Test Setup Photos

See FCC exhibits

9 Test Instrument List

Equipment	Manufacturer	Model	Instrument Number	Cal. Date	Cal. Due
Semi-Anechoic Chamber	ETS-Lindgren	10M	VL001	5/24/2024	5/24/2027
Shielding Control Room	ETS-Lindgren	Series 81	VL006	N/A1)	N/A1)
Spectrum Analyzer	Keysight	N9020A	MY50110074	5/15/2024	5/15/2026
EMC Test Receiver	R&S	ESL6	100230	5/14/2024	5/14/2026
LISN (9KHz – 30MHz)	EMCO	3816/2	9705-1066	5/28/2024	5/28/2026
Bi-Log Antenna	ETS-Lindgren	3142E	217921	7/25/2024	7/25/2026
Horn Antenna (1-18GHz)	Electro-Metrics	EM-6961	6292	7/22/2024	7/22/2026
Horn Antenna (18-40GHz)	Com-Power	AH-840	101109	7/22/2024	7/22/2026
Temp / Humidity / Pressure Meter	PCE Instruments	PCE-THB 40	R062028	5/17/2024	5/17/2026
RF Attenuator	Pasternack	PE7005-3	VL061	07/29/2024	07/29/2026
EM Center Control	ETS-Lindgren	7006-001	160136	N/A1)	N/A1)
Turn Table	ETS-Lindgren	2181-3.03	VL002	N/A1)	N/A1)
Boresight Antenna Tower	ETS-Lindgren	2171B	VL003	N/A1)	N/A1)
Loop Antenna (9k-30MHz)	Com-Power	AL-130	121012	6/13/2024	6/13/2026
RE test cable (below 6GHz)	Vista	RE-6GHz-01	RE-6GHz-01	07/29/2024	07/29/2026
RE test cable (1-18GHz)	PhaseTrack	II-240	RE-18GHz-01	07/29/2024	07/29/2026
RE test cable (>18GHz)	Sucoflex	104	344903/4	07/29/2024	07/29/2026
Pulse limiter	Com-Power	LIT-930A	531727	07/29/2024	07/29/2026
CE test cable #1	FIRST RF	FRF-C-1002-001	CE-6GHz-01	07/29/2024	07/29/2026
CE test cable#2	FIRST RF	FRF-C-1002-001	CE-6GHz-02	07/29/2024	07/29/2026
Vector Signal Generator	Keysight	N5182A	US47080548	5/15/2024	5/15/2026
RF Power Amplifier (80-1000MHz)	Ophir	5226FE	1013/1815	N/A	N/A
RF Power Amplifier (700-6000MHz)	Ophir	5293FE	1063/1815	N/A	N/A
Horn Antenna (1-18GHz)	FT-RF	HA-07M18G-NF	180010HA	N/A	N/A
Smart Fieldmeter	EMC Test Design	RFP-04CE	248/116	6/10/2024	6/10/2027
Temperature/Humidity Chamber	Bemco	FBW1.5-100/350	3621-9	5/16/2024	5/16/2027
Electrostatic Discharge Simulator (2 to 25kv)	Teseq	NSG 432	1192	5/24/2024	5/24/2026

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