

**CFR 47 FCC PART 15 SUBPART C
ISED RSS-247 ISSUE 3 (DTS)**

TEST REPORT

For

WIFI BT module

MODEL NUMBER: 6252BA-SR

REPORT NUMBER: E04A25100346F00102

ISSUE DATE: November 21, 2025

FCC ID: 2AATL-6252BA-SR

IC: 12425A-6252BASR

Prepared for

FN-LINK TECHNOLOGY LIMITED

**No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha,
Hunan, China**

Prepared by

Guangdong Global Testing Technology Co., Ltd.

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	November 21, 2025	Initial Issue	

Note: This report is based on E04A23090802F00102 which is issued by Guangdong Global Testing Technology Co., Ltd. Song Shan Lake Branch. EUT has already applied for the FCC ID & ISED, Due to market demand, the customer will be adding a new antenna type. The addition of this antenna type will not affect the module's circuit diagram, PCB layout, components, component placement, or performance. The only difference lies in minor variations at the antenna connection point. As a result, the new antenna will undergo testing for radiation band edges, spurious emissions, and equivalent isotropic radiated power (E.I.R.P.), and only the worst case reported. For the other data, please refer to the original report.

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	FCC: ANSI C63.10-2020; ISED: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024	FCC Part 15.203/15.247 (c) RSS-GEN Clause 6.8	Note 1
AC Power Line Conducted Emission	FCC: ANSI C63.10-2020; ISED: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024	FCC Part 15.207 RSS-GEN Clause 8.8	Note 1
Conducted Output Power	FCC: ANSI C63.10-2020; ISED: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024	FCC Part 15.247 (b)(3) RSS-247 Clause 5.4 (d)	Note 2
6dB Bandwidth and 99% Occupied Bandwidth	FCC: ANSI C63.10-2020; ISED: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024	FCC Part 15.247 (a)(2) RSS-247 Clause 5.2 (a) ISED RSS-Gen Clause 6.7	Note 1
Power Spectral Density	FCC: ANSI C63.10-2020; ISED: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024	FCC Part 15.247 (e) RSS-247 Clause 5.2 (b)	Note 1
Conducted Band edge and spurious emission	FCC: ANSI C63.10-2020; ISED: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024	FCC Part 15.247(d) RSS-247 Clause 5.5	Note 1
Radiated Band edge and Spurious Emission	FCC: ANSI C63.10-2020; ISED: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024	FCC Part 15.247 (d) FCC Part 15.205/15.209 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Note 3
Duty Cycle	FCC: ANSI C63.10-2020; ISED: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024	None; for reporting purposes only.	Note 1

Note 1: Please refer to the original report.

Note 2: For equivalent isotropic radiated power, all modes have been tested, only the worst data recorded in the report.

Note 3: For radiated band edge and spurious, all modes have been tested, only the worst data recorded in the report.

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C, ISED RSS-247 ISSUE 3 (DTS)> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: FN-LINK TECHNOLOGY LIMITED
Address: No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, China

Manufacturer Information

Company Name: FN-LINK TECHNOLOGY LIMITED
Address: No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, China

EUT Information

Product Description: WIFI BT module
Model: 6252BA-SR
Brand: FN-LINK
Sample Received Date: November 05, 2025
Sample Status: Normal
Sample ID: A25100346 001
Date of Tested: November 05, 2025 to November 21, 2025

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C ISED RSS-247 ISSUE 3 (DTS)	Pass

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2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C
ISED RSS-247 ISSUE 3 (DTS)

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.
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Note: All tests measurement facilities use to collect the measurement data are located at
Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city,
Guangdong, People's Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Items	k	Uncertainty
DTS Bandwidth	1.96	±9.2 PPM
20dB Emission Bandwidth	1.96	±9.2 PPM
Carrier Frequency Separation	1.96	±9.2 PPM
Time of Occupancy	1.96	±0.57%
Conducted Output Power	1.96	±1.5 dB
Power Spectral Density Level	1.96	±1.9 dB
Conducted Spurious Emission	1.96	9 kHz-30 MHz: ± 0.95 dB 30 MHz-1 GHz: ± 1.5 dB 1GHz-12.75GHz: ± 1.8 dB 12.75 GHz-26.5 GHz: ± 2.1dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.		

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions from the AC mains power ports (AMN)	150 kHz ~ 30 MHz	2	3.37
Radiated emissions	9 kHz ~ 30 MHz	2	4.16
Radiated emissions	30 MHz ~ 1 GHz	2	3.79
Radiated emissions	1 GHz ~ 18 GHz	2	5.62
Radiated emissions	18 GHz ~ 40 GHz	2	5.54
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		WIFI BT module
Model		6252BA-SR
Hardware Version		1.0
Software Version		1.15.12
Ratings		DC 3.3V
Power Supply	DC	3.3

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2412 MHz to 2462 MHz
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20, IEEE 802.11n-HT40, IEEE 802.11ax-HE20, IEEE 802.11ax-HE40
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n/ax: OFDMA(1024-QAM, 256-QAM, 64-QAM, 16-QAM, QPSK, BPSK)
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n: Up to MCS7 IEEE 802.11ax: Up to MCS11
Number of Channels:	IEEE 802.11b/g/n-HT20/ax-HE20: 11 IEEE 802.11n-HT40/ax-HE40: 7
Maximum Peak Power:	IEEE 802.11b: 19.94 dBm IEEE 802.11g: 17.78 dBm IEEE 802.11n-HT20: 18.09 dBm IEEE 802.11n-HT40: 17.90 dBm IEEE 802.11ax-HE20: 17.07 dBm IEEE 802.11ax-HE40: 16.92 dBm
Antenna Type:	External Antenna
Antenna Gain:	ANT1: 1.94 dBi, ANT2: 1.94 dBi
Directional Gain	4.95 dBi
Normal Test Voltage:	3.3 Vdc
EUT Test software:	Terminal
Note:	The Antenna Gain was provided by customer, and this information may affect the validity of the results, customer should be responsible for this.

5.2. CHANNEL LIST

Channel List for 802.11b/g/n/ax (20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462

3	2422	6	2437	9	2452	/	/
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Channel List for 802.11n/ax (40 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	5	2432	7	2442	9	2452
4	2427	6	2437	8	2447	/	/

5.3. MAXIMUM CONDUCTED OUTPUT POWER

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted Output Power (dBm)	Maximum EIRP (dBm)
b	2412 ~ 2462	1-11[11]	19.94	21.88
g	2412 ~ 2462	1-11[11]	17.78	19.72
n HT20	2412 ~ 2462	1-11[11]	18.09	20.03
n HT40	2422 ~ 2452	3-9[7]	17.90	19.84
ax HE20	2412 ~ 2462	1-11[11]	17.07	19.01
ax HE40	2422 ~ 2452	3-9[7]	16.92	18.86

5.4. TEST CHANNEL CONFIGURATION

IEEE Std. 802.11	Test Channel Number	Frequency
b	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
g	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT20/ ax HE20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT40/ ax HE40	CH 3(Low Channel), CH 6(MID Channel), CH 9(High Channel)	2422 MHz, 2437 MHz, 2452 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Software		QA Tool					
Modulation Mode	Transmit Antenna Number	Terminal					
		NCB: 20MHz			NCB: 40MHz		
		CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
802.11b	1	20	20	20	/		
	2	20	20	20			
802.11g	1	18	18	18			
	2	18	18	18			
802.11n HT20	1	15	15	15			
	2	15	15	15			
802.11ax HE20	1	14	14	14	/		

	2	14	14	14	/		
802.11n HT40	1	/			15	15	15
	2	/			15	15	15
802.11ax HE40	1	/			14	14	14
	2	/			14	14	14

WORST-CASE CONFIGURATIONS

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

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.4.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps

802.11g mode: 6 Mbps

802.11n HT20/ax HE20 mode: MCS0

802.11n HT40/ax HE40 mode: MCS0

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	External Antenna	1.94
2	2412-2462	External Antenna	1.94

The EUT support Cyclic Shift Diversity(CDD) mode.

MIMO output power port and MIMO PSD port summing were performed in accordance with KDB 662911 D01. For the CDD results the Directional Gain was calculated in accordance with the following method.

For output power measurements:

Directional gain= $G_{ANT} + \text{Array Gain} = 1.94 \text{ dBi}$

G_{ANT} : equal to the gain of the antenna having the highest gain

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$

For power spectral density (PSD) measurements:

Directional gain= $G_{ANT} + \text{Array Gain} = 4.95 \text{ dBi}$

Array Gain = $10 \log(N_{ANT}/N_{SS}) \text{ dB}$.

N_{ANT} : number of transmit antennas

N_{SS} : number of spatial streams, The worst case directional gain will occur when $N_{SS} = 1$

Test Mode	Transmit and Receive Mode	Description
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IEEE 802.11b	☒2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
IEEE 802.11g	☒2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20/ ax HE20	☒2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40/ ax HE40	☒2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.

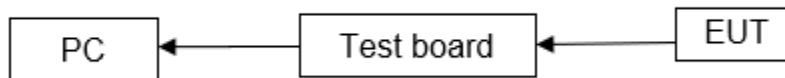
5.7. SUPPORT UNITS FOR SYSTEM TEST

The EUT has been tested as an independent unit

Equipment	Manufacturer	Model No.
Test board	FN-LINK	6252BA-SR
PC	Lenovo	T14

5.8. SETUP DIAGRAM

Radiated emissions:



6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted RF					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40	102257	2025/08/25	2026/08/24
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285127	2025/08/25	2026/08/24
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2025/08/25	2026/08/24
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2025/08/25	2026/08/24
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2025/08/25	2026/08/24
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2025/08/25	2026/08/24
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2025/08/25	2026/08/24
temperature humidity chamber	Espec	SH-241	SH-241-2014	2025/08/25	2026/08/24
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2025/08/23	2026/08/22
EMI Test Receiver	Rohde & Schwarz	ESCI3	101144	2025/08/23	2026/08/22
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	2025/08/23	2026/08/22
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2025/09/20	2028/09/19
Biconilog Antenna	ETS	3142E	00243651	2025/02/22	2028/02/21
Loop Antenna	ETS	6502	00243668	2025/02/22	2028/02/21
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A

Test Equipment of Radiated emissions above 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2149	2025/08/23	2026/08/22
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2025/08/23	2026/08/22
Pre-Amplifier	HzEMC	HPA-1G1850	HYPA21003	2025/08/23	2026/08/22
Horn antenna	ETS	3117	00246069	2025/02/22	2028/02/21
Pre-Amplifier	HzEMC	HPA-184057	HYPA21004	2025/08/23	2026/08/22
Horn antenna	ETS	3116C	00246265	2025/02/22	2028/02/21
RF Filter Bank	HzEMC	HSW-F18	HSWF2218E01	2025/08/23	2026/08/22

RF Filter Bank	HzEMC	HPF18	HPF2218E02	2025/08/23	2026/08/22
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE+)	N/A	N/A	N/A

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

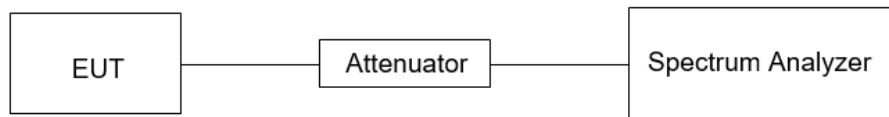
CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3) ISED RSS-247 5.4 (d)	Peak Conduct Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor and meter or Spectrum analyzer(video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.9°C	Relative Humidity	56%
Atmosphere Pressure	101kPa		

TEST RESULTS

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	E.I.R.P (dBm)	E.I.R.P Limit (dBm)	Verdict
NVNT	b	2412	Ant1	19.53	0	19.53	30	21.47	<=36.02	Pass
NVNT	b	2412	Ant2	19.13	0	19.13	30	21.07	<=36.02	Pass
NVNT	b	2437	Ant1	19.77	0	19.77	30	21.71	<=36.02	Pass
NVNT	b	2437	Ant2	19.7	0	19.7	30	21.64	<=36.02	Pass
NVNT	b	2462	Ant1	19.94	0	19.94	30	21.88	<=36.02	Pass
NVNT	b	2462	Ant2	19.94	0	19.94	30	21.88	<=36.02	Pass
NVNT	g	2412	Ant1	17.38	0	17.38	30	19.32	<=36.02	Pass
NVNT	g	2412	Ant2	17.2	0	17.2	30	19.14	<=36.02	Pass
NVNT	g	2437	Ant1	17.59	0	17.59	30	19.53	<=36.02	Pass
NVNT	g	2437	Ant2	17.53	0	17.53	30	19.47	<=36.02	Pass
NVNT	g	2462	Ant1	17.7	0	17.7	30	19.64	<=36.02	Pass
NVNT	g	2462	Ant2	17.78	0	17.78	30	19.72	<=36.02	Pass
NVNT	n20	2412	Ant1	14.53	0	14.53	30	16.47	<=36.02	Pass
NVNT	n20	2412	Ant2	14.69	0	14.69	30	16.63	<=36.02	Pass
NVNT	n20	2412	Sum	17.62	-	17.62	30	19.56	<=36.02	Pass
NVNT	n20	2437	Ant1	14.71	0	14.71	30	16.65	<=36.02	Pass

NVNT	n20	2437	Ant2	15.06	0	15.06	30	17.00	<=36.02	Pass
NVNT	n20	2437	Sum	17.9	-	17.9	30	19.84	<=36.02	Pass
NVNT	n20	2462	Ant1	14.86	0	14.86	30	16.80	<=36.02	Pass
NVNT	n20	2462	Ant2	15.29	0	15.29	30	17.23	<=36.02	Pass
NVNT	n20	2462	Sum	18.09	-	18.09	30	20.03	<=36.02	Pass
NVNT	n40	2422	Ant1	14.26	0	14.26	30	16.20	<=36.02	Pass
NVNT	n40	2422	Ant2	14.63	0	14.63	30	16.57	<=36.02	Pass
NVNT	n40	2422	Sum	17.46	-	17.46	30	19.40	<=36.02	Pass
NVNT	n40	2437	Ant1	14.56	0	14.56	30	16.50	<=36.02	Pass
NVNT	n40	2437	Ant2	14.84	0	14.84	30	16.78	<=36.02	Pass
NVNT	n40	2437	Sum	17.71	-	17.71	30	19.65	<=36.02	Pass
NVNT	n40	2452	Ant1	14.67	0	14.67	30	16.61	<=36.02	Pass
NVNT	n40	2452	Ant2	15.1	0	15.1	30	17.04	<=36.02	Pass
NVNT	n40	2452	Sum	17.9	-	17.9	30	19.84	<=36.02	Pass
NVNT	ax20	2412	Ant1	13.57	0	13.57	30	15.51	<=36.02	Pass
NVNT	ax20	2412	Ant2	13.5	0	13.5	30	15.44	<=36.02	Pass
NVNT	ax20	2412	Sum	16.55	-	16.55	30	18.49	<=36.02	Pass
NVNT	ax20	2437	Ant1	13.83	0	13.83	30	15.77	<=36.02	Pass
NVNT	ax20	2437	Ant2	13.91	0	13.91	30	15.85	<=36.02	Pass
NVNT	ax20	2437	Sum	16.88	-	16.88	30	18.82	<=36.02	Pass
NVNT	ax20	2462	Ant1	13.88	0	13.88	30	15.82	<=36.02	Pass
NVNT	ax20	2462	Ant2	14.23	0	14.23	30	16.17	<=36.02	Pass
NVNT	ax20	2462	Sum	17.07	-	17.07	30	19.01	<=36.02	Pass
NVNT	ax40	2422	Ant1	13.48	0	13.48	30	15.42	<=36.02	Pass
NVNT	ax40	2422	Ant2	13.53	0	13.53	30	15.47	<=36.02	Pass
NVNT	ax40	2422	Sum	16.52	-	16.52	30	18.46	<=36.02	Pass
NVNT	ax40	2437	Ant1	13.63	0	13.63	30	15.57	<=36.02	Pass
NVNT	ax40	2437	Ant2	13.76	0	13.76	30	15.70	<=36.02	Pass
NVNT	ax40	2437	Sum	16.71	-	16.71	30	18.65	<=36.02	Pass
NVNT	ax40	2452	Ant1	13.81	0	13.81	30	15.75	<=36.02	Pass
NVNT	ax40	2452	Ant2	14.01	0	14.01	30	15.95	<=36.02	Pass
NVNT	ax40	2452	Sum	16.92	-	16.92	30	18.86	<=36.02	Pass

Note1: Antenna Gain: 1.94dBi;

Note2: E.I.R.P = Measured Power + Antenna Gain

7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5

TEST PROCEDURE

Refer to FCC: ANSI C63.10-2020, ISED: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

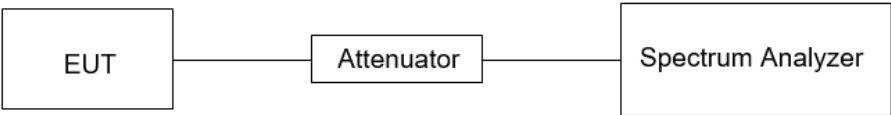
Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW
Detector	Peak
RBW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: $\geq 3 \times$ RBW For 99 % Occupied Bandwidth: $\geq 3 \times$ RBW
Trace	Max hold
Sweep	Auto couple

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST ENVIRONMENT

Temperature		Relative Humidity	
Atmosphere Pressure			

TEST RESULTS

Please refer to the original report.

7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e) ISED RSS-247 5.2 (b)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

Refer to FCC: ANSI C63.10-2020, ISED: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 clause 11.10.

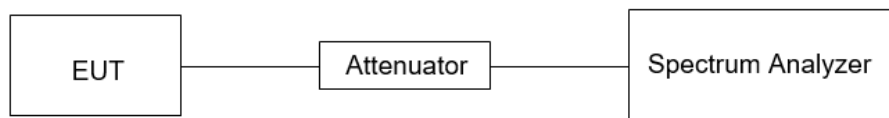
Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	PEAK
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

Temperature		Relative Humidity	
Atmosphere Pressure			

TEST RESULTS

Please refer to the original report.

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	Conducted Bandedge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to FCC: ANSI C63.10-2020, ISED: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyzer and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

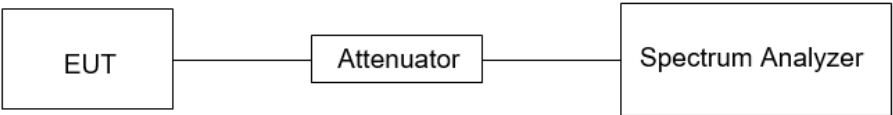
Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST SETUP



TEST ENVIRONMENT

Temperature		Relative Humidity	
Atmosphere Pressure			

TEST RESULTS

Please refer to the original report.

7.5. DUTY CYCLE

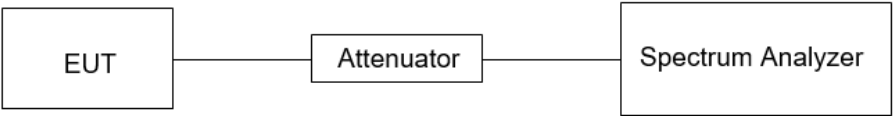
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to FCC: ANSI C63.10-2020, ISED: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature		Relative Humidity	
Atmosphere Pressure			

TEST RESULTS

Please refer to the original report.

8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in FCC: ANSI C63.10-2020, ISED: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 clause 6.4.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in FCC: ANSI C63.10-2020, ISSED: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

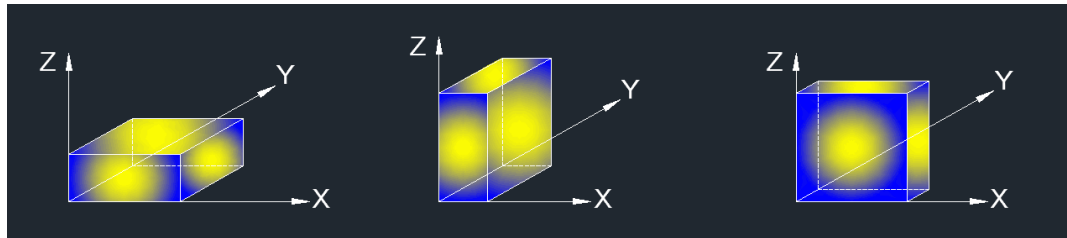
Above 1G

The setting of the spectrum analyzer

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

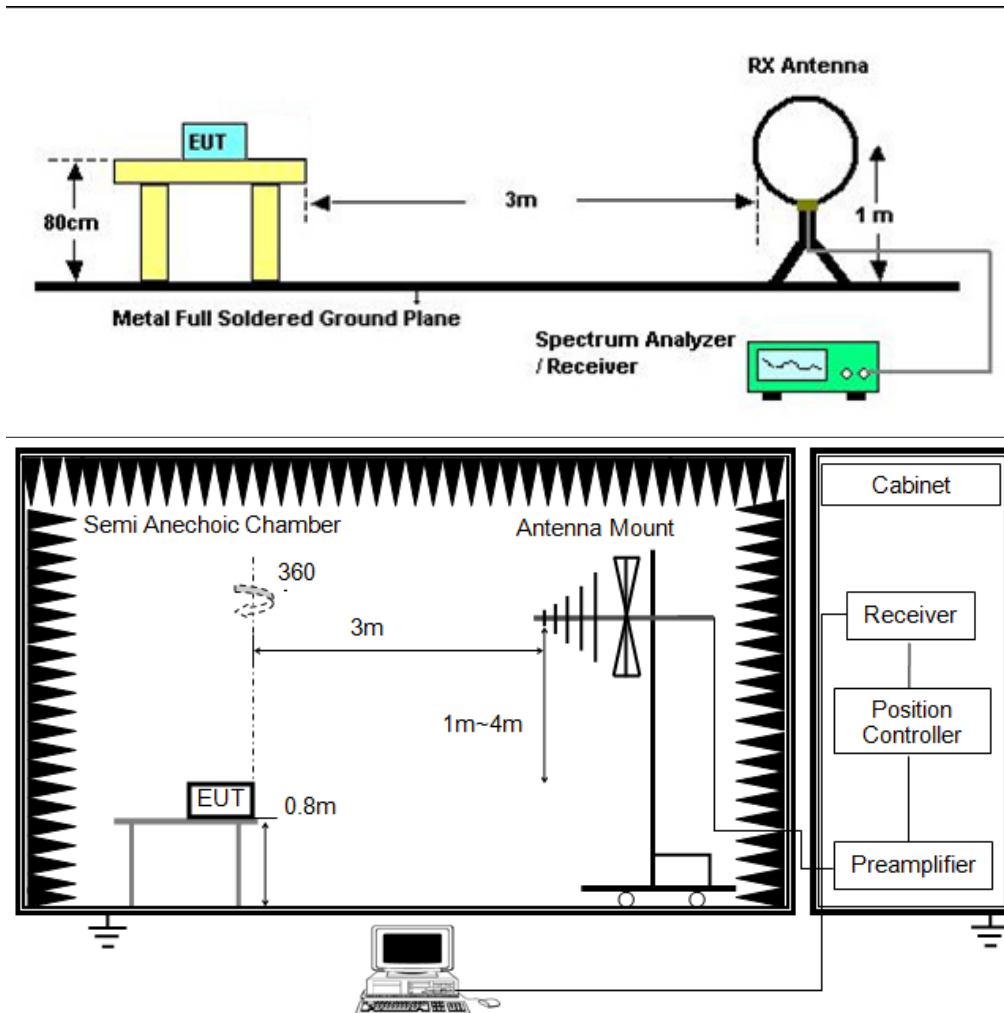
1. The testing follows the guidelines in FCC: ANSI C63.10-2020, ISSED: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 clause 6.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

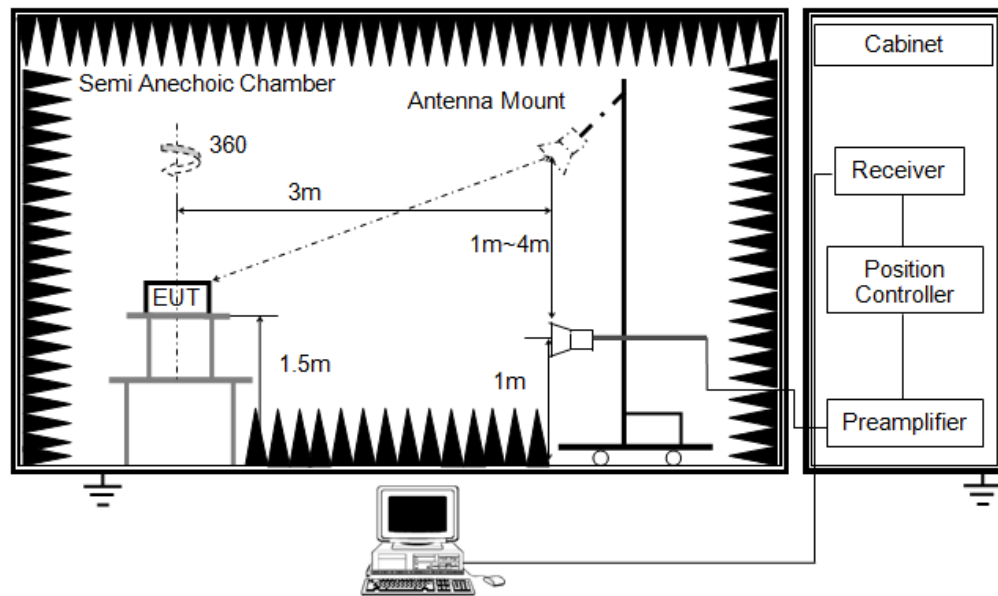
X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST SETUP



**TEST ENVIRONMENT**

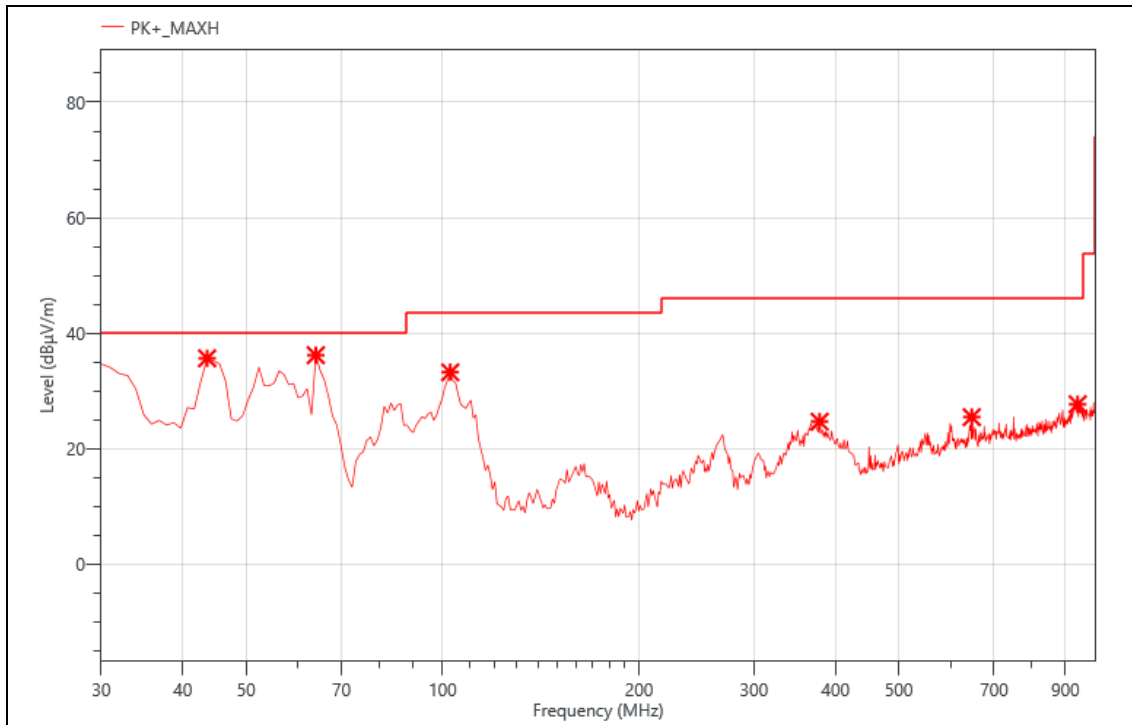
Temperature	24.1°C	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST RESULTS

Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)

All modes have been tested and the worst result as bellow:

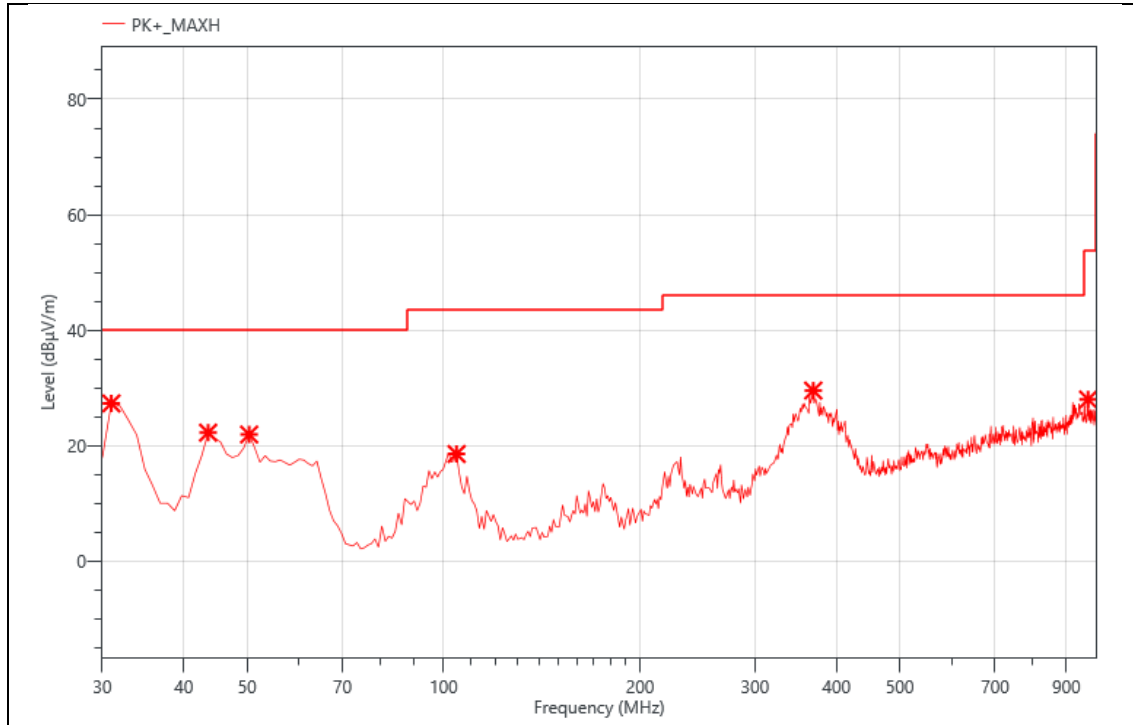
Mode:	11B-2412
Power:	DC 3.3V
TE:	Berny
Date	2025/11/12
T/A/P	24.1°C/53%/101Kpa

**Critical_Freqs**

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	43.580	57.54	-21.88	35.66	40.00	4.34	PK+	V
2	63.950	60.58	-24.37	36.21	40.00	3.79	PK+	V
3	102.750	57.09	-23.84	33.25	43.50	10.25	PK+	V
4	378.230	39.43	-14.73	24.70	46.00	21.30	PK+	V
5	646.920	33.61	-8.13	25.48	46.00	20.52	PK+	V
6	939.860	29.88	-2.16	27.72	46.00	18.28	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11B-2412
Power:	DC 3.3V
TE:	Berny
Date	2025/11/12
T/A/P	24.1°C/53%/101Kpa



Critical_Freqs

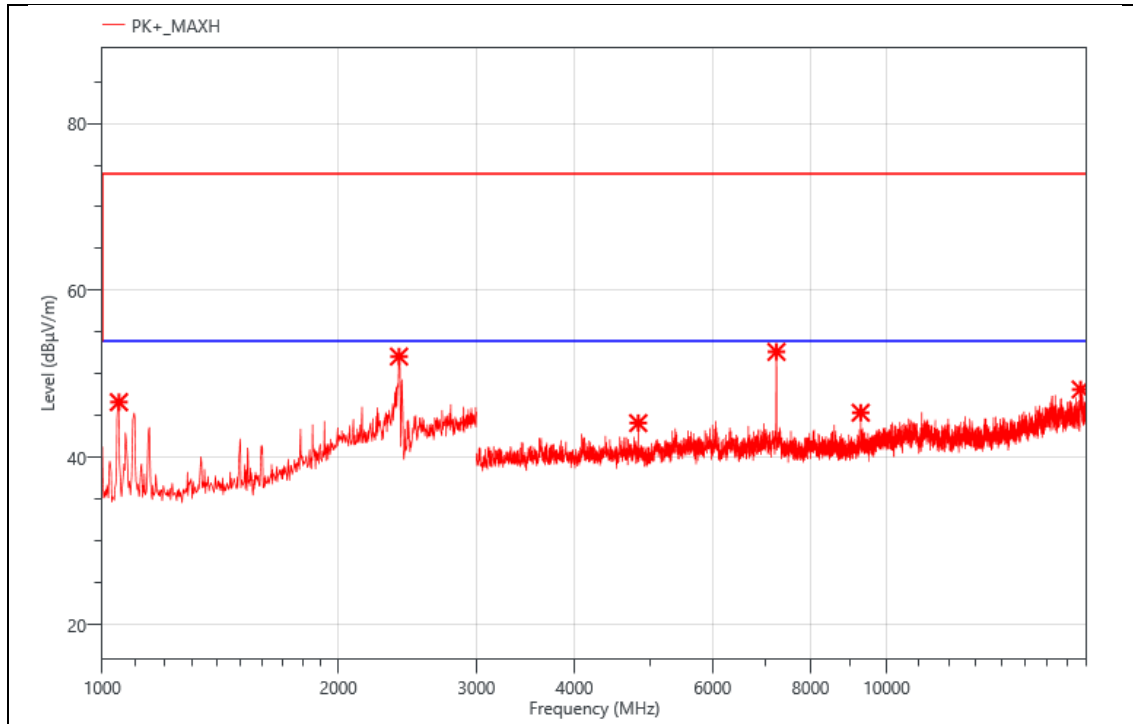
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	30.970	42.21	-14.87	27.34	40.00	12.66	PK+	H
2	43.580	44.16	-21.88	22.28	40.00	17.72	PK+	H
3	50.370	46.06	-24.1	21.96	40.00	18.04	PK+	H
4	104.690	42.31	-23.72	18.59	43.50	24.91	PK+	H
5	368.530	44.84	-15.28	29.56	46.00	16.44	PK+	H
6	971.870	30.82	-2.79	28.03	53.90	25.87	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

All modes have been tested and the worst result as bellow:

Mode:	11B-2412
Power:	DC 3.3V
TE:	Berny
Date	2025/11/12
T/A/P	24.1°C/53%/101Kpa

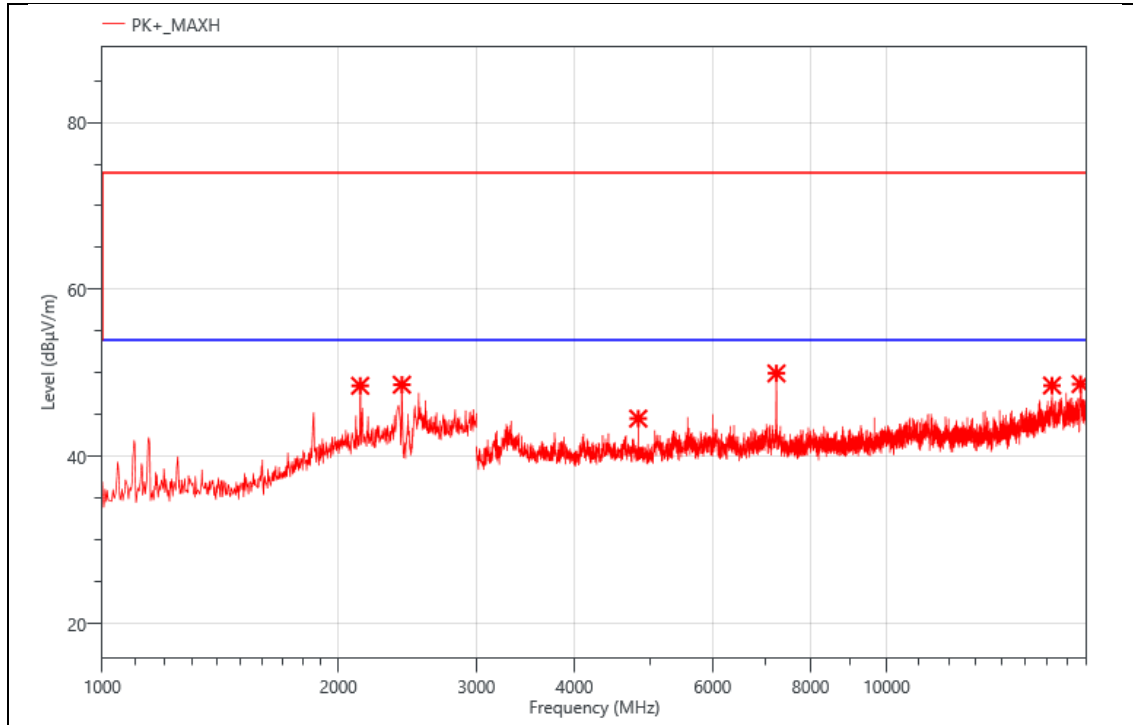


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	1050.000	61.89	-15.26	46.63	74.00	27.37	PK+	H
2	2390.000	60.62	-8.53	52.09	74.00	21.91	PK+	H
3	4824.000	55.59	-11.47	44.12	74.00	29.88	PK+	H
4	7239.000	60.80	-8.15	52.65	74.00	21.35	PK+	H
5	9268.500	52.46	-7.1	45.36	74.00	28.64	PK+	H
6	17679.000	47.86	0.29	48.15	74.00	25.85	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11B-2412
Power:	DC 3.3V
TE:	Berny
Date	2025/11/12
T/A/P	24.1°C/53%/101Kpa

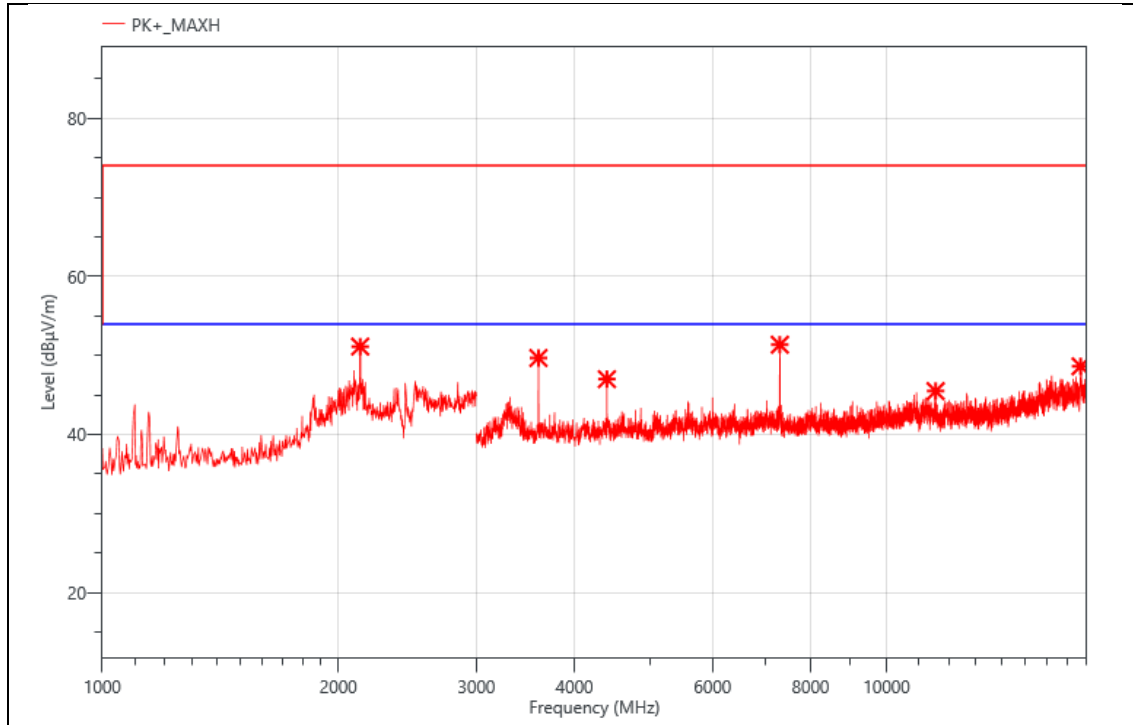


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2132.000	57.52	-9.05	48.47	74.00	25.53	PK+	V
2	2410.000	57.12	-8.52	48.60	74.00	25.40	PK+	V
3	4824.000	56.01	-11.47	44.54	74.00	29.46	PK+	V
4	7237.500	58.09	-8.14	49.95	74.00	24.05	PK+	V
5	16255.500	49.22	-0.72	48.50	74.00	25.50	PK+	V
6	17680.500	48.38	0.29	48.67	74.00	25.33	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11B-2437
Power:	DC 3.3V
TE:	Berny
Date	2025/11/12
T/A/P	24.1°C/53%/101Kpa

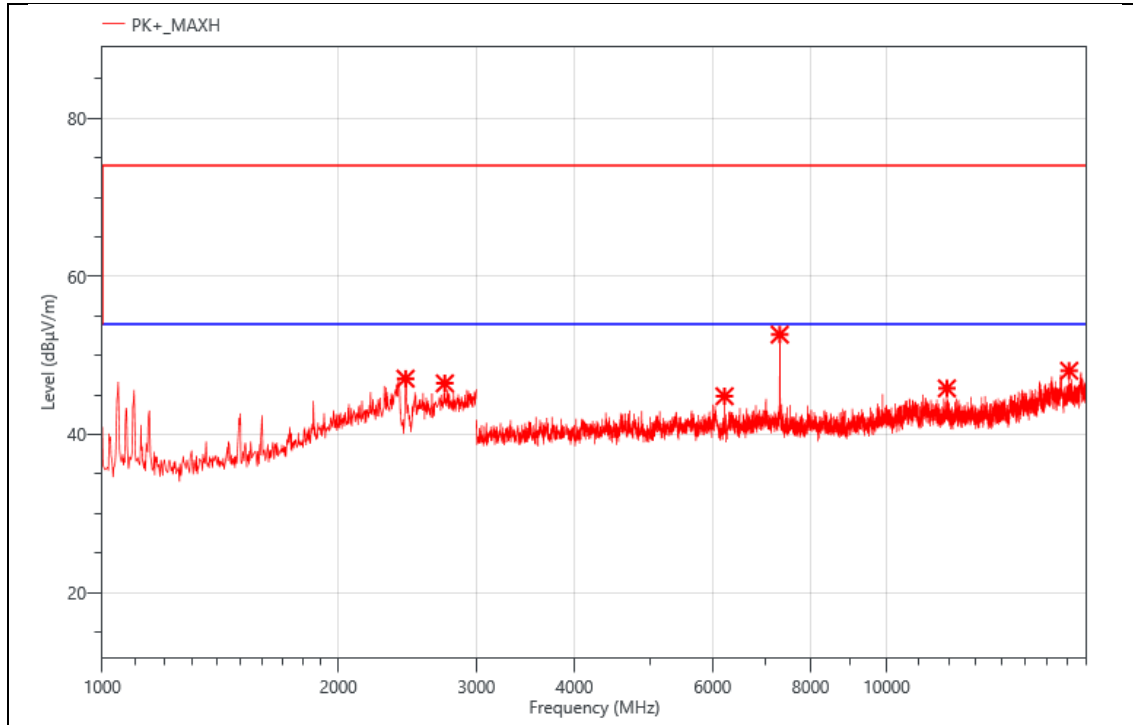


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2132.000	60.17	-9.05	51.12	74.00	22.88	PK+	V
2	3598.500	63.42	-13.74	49.68	74.00	24.32	PK+	V
3	4399.500	58.90	-11.9	47.00	74.00	27.00	PK+	V
4	7309.500	58.91	-7.55	51.36	74.00	22.64	PK+	V
5	11550.000	49.62	-4.13	45.49	74.00	28.51	PK+	V
6	17677.500	48.32	0.3	48.62	74.00	25.38	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11B-2437
Power:	DC 3.3V
TE:	Berny
Date	2025/11/12
T/A/P	24.1°C/53%/101Kpa

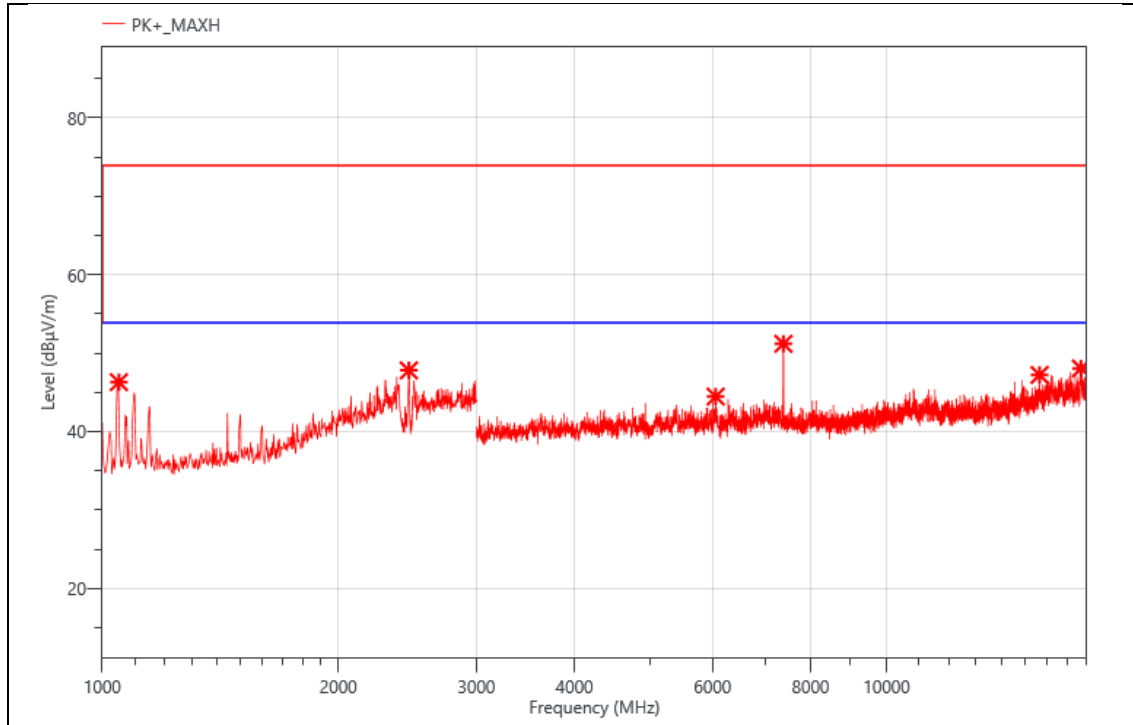


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2436.000	55.55	-8.49	47.06	74.00	26.94	PK+	H
2	2734.000	54.92	-8.45	46.47	74.00	27.53	PK+	H
3	6214.500	53.30	-8.46	44.84	74.00	29.16	PK+	H
4	7308.000	60.20	-7.56	52.64	74.00	21.36	PK+	H
5	11938.500	50.31	-4.48	45.83	74.00	28.17	PK+	H
6	17094.000	48.82	-0.76	48.06	74.00	25.94	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11B-2462
Power:	DC 3.3V
TE:	Berny
Date	2025/11/12
T/A/P	24.1°C/53%/101Kpa

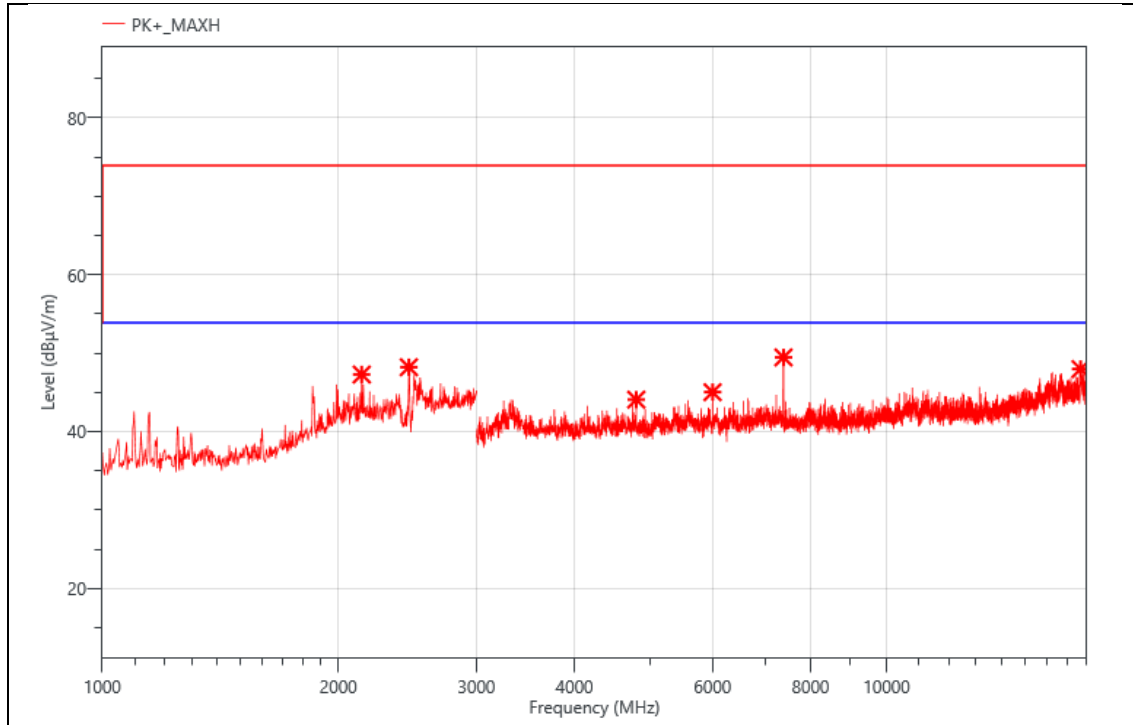


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	1050.000	61.57	-15.26	46.31	74.00	27.69	PK+	H
2	2460.000	56.27	-8.46	47.81	74.00	26.19	PK+	H
3	6054.000	52.48	-8.01	44.47	74.00	29.53	PK+	H
4	7387.500	59.49	-8.29	51.20	74.00	22.80	PK+	H
5	15672.000	49.45	-2.22	47.23	74.00	26.77	PK+	H
6	17697.000	47.85	0.2	48.05	74.00	25.95	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11B-2462
Power:	DC 3.3V
TE:	Berny
Date	2025/11/12
T/A/P	24.1°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2142.000	56.33	-9.05	47.28	74.00	26.72	PK+	V
2	2460.000	56.67	-8.46	48.21	74.00	25.79	PK+	V
3	4795.500	55.39	-11.31	44.08	74.00	29.92	PK+	V
4	6000.000	53.90	-8.87	45.03	74.00	28.97	PK+	V
5	7389.000	57.73	-8.27	49.46	74.00	24.54	PK+	V
6	17674.500	47.66	0.32	47.98	74.00	26.02	PK+	V

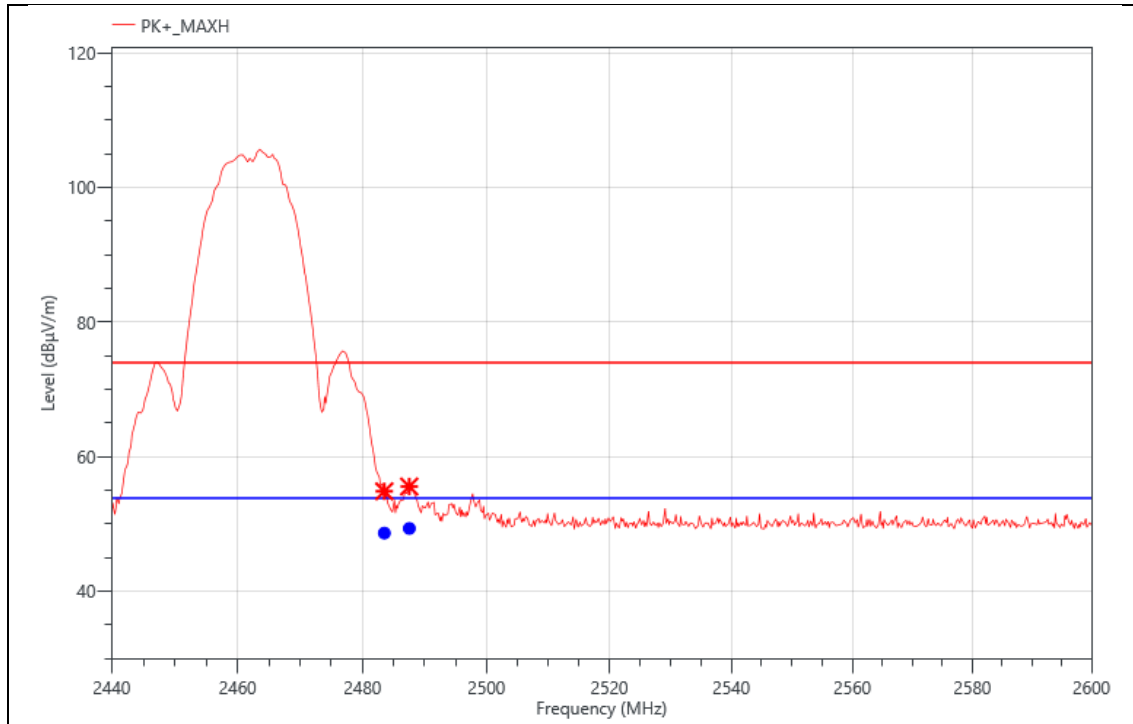
Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

For 9KHz to 30MHz and above 18 GHz, a pre-scan was performed, and the result was 20 dB lower than the limit line, the test data was not shown in the report.

Band Edge

All modes have been tested and the worst result as bellow:

Mode:	11B-2462
Power:	DC 3.3V
TE:	BIG
Date	2025/11/20
T/A/P	22.3°C/51%/101Kpa



Critical_Freqs

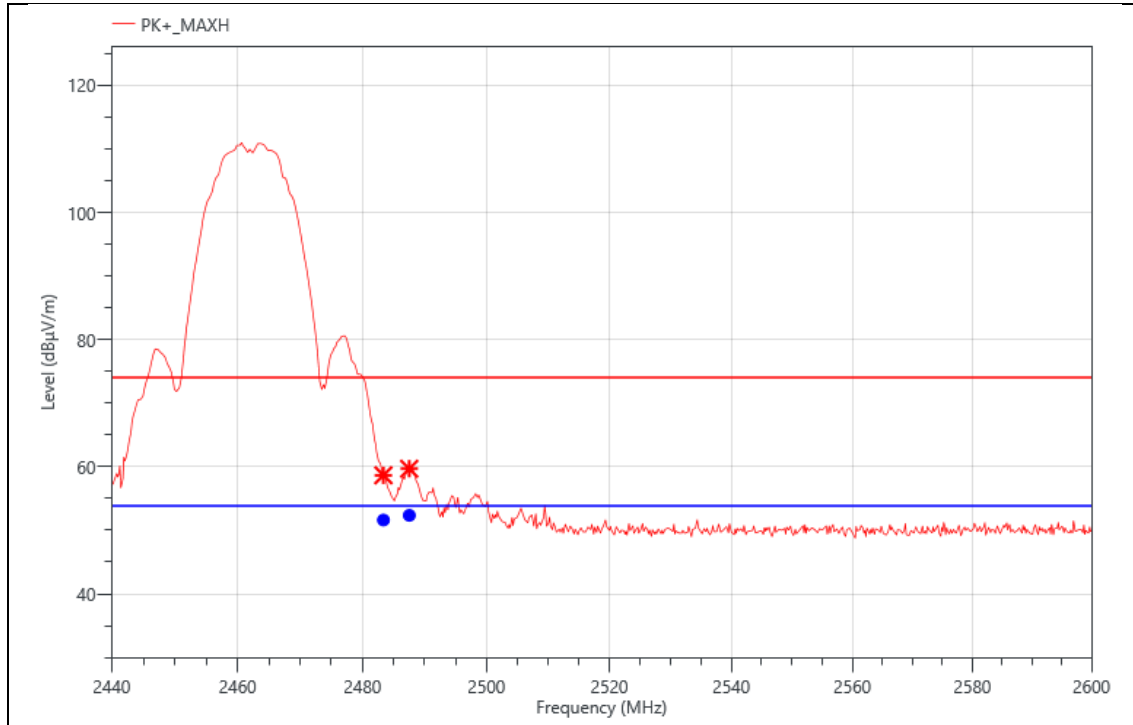
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	31.67	23.15	54.82	74.00	19.18	PK+	V
2	2487.520	32.40	23.14	55.54	74.00	18.46	PK+	V

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2483.500	25.47	23.15	48.62	53.90	5.28	AVG	V	PASS
2	2487.520	26.17	23.14	49.31	53.90	4.59	AVG	V	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11B-2462
Power:	DC 3.3V
TE:	BIG
Date	2025/11/20
T/A/P	22.3°C/51%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	35.51	23.15	58.66	74.00	15.34	PK+	H
2	2487.520	36.55	23.14	59.69	74.00	14.31	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2483.500	28.47	23.15	51.62	53.90	2.28	AVG	H	PASS
2	2487.520	29.22	23.14	52.36	53.90	1.54	AVG	H	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11N40-2422
Power:	DC 3.3V
TE:	BIG
Date	2025/11/20
T/A/P	22.3°C/51%/101Kpa



Critical_Freqs

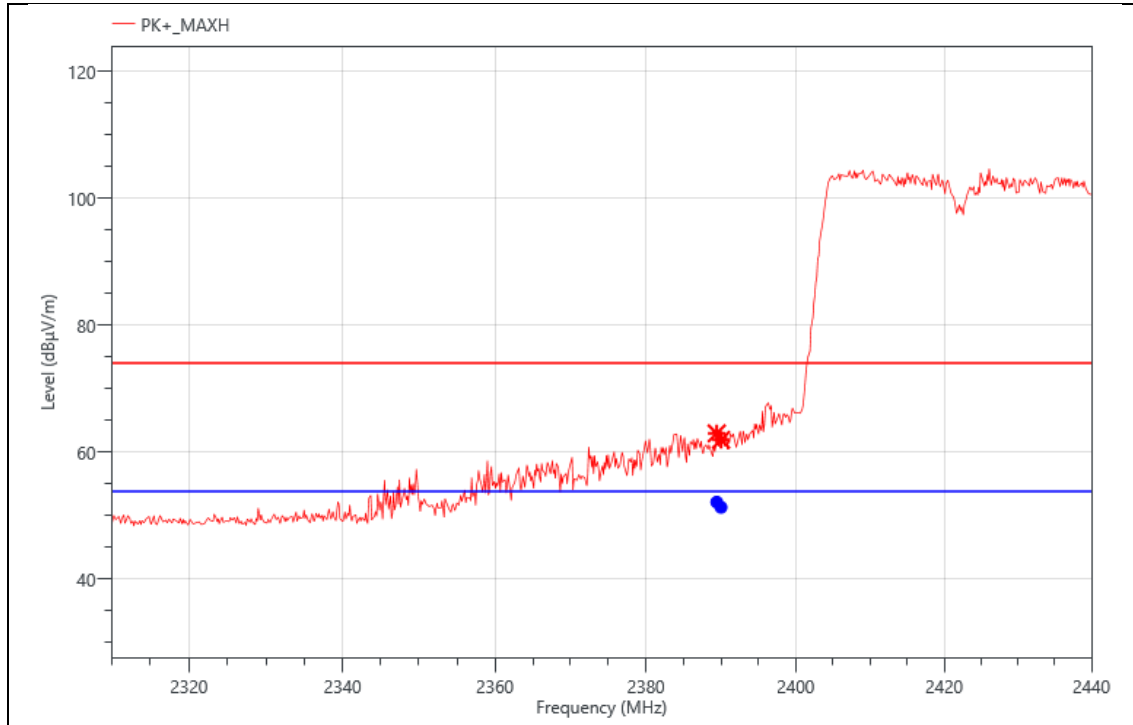
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2384.490	40.38	22.61	62.99	74.00	11.01	PK+	H
2	2390.000	40.95	22.72	63.67	74.00	10.33	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2384.490	28.75	22.61	51.36	53.90	2.54	AVG	H	PASS
2	2390.000	29.79	22.72	52.51	53.90	1.39	AVG	H	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11N40-2422
Power:	DC 3.3V
TE:	BIG
Date	2025/11/20
T/A/P	22.3°C/51%/101Kpa



Critical_Freqs

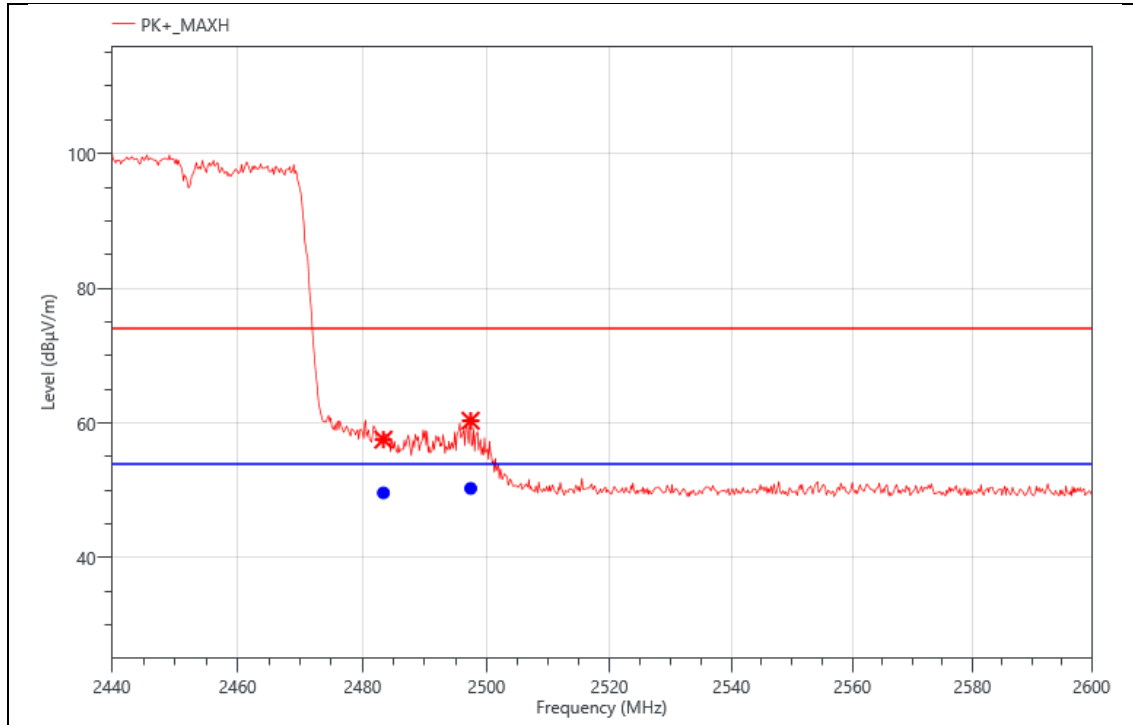
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2389.430	40.28	22.71	62.99	74.00	11.01	PK+	V
2	2390.000	39.24	22.72	61.96	74.00	12.04	PK+	V

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2389.430	29.45	22.71	52.16	53.90	1.74	AVG	V	PASS
2	2390.000	28.61	22.72	51.33	53.90	2.57	AVG	V	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11N40-2452
Power:	DC 3.3V
TE:	BIG
Date	2025/11/20
T/A/P	22.3°C/51%/101Kpa



Critical_Freqs

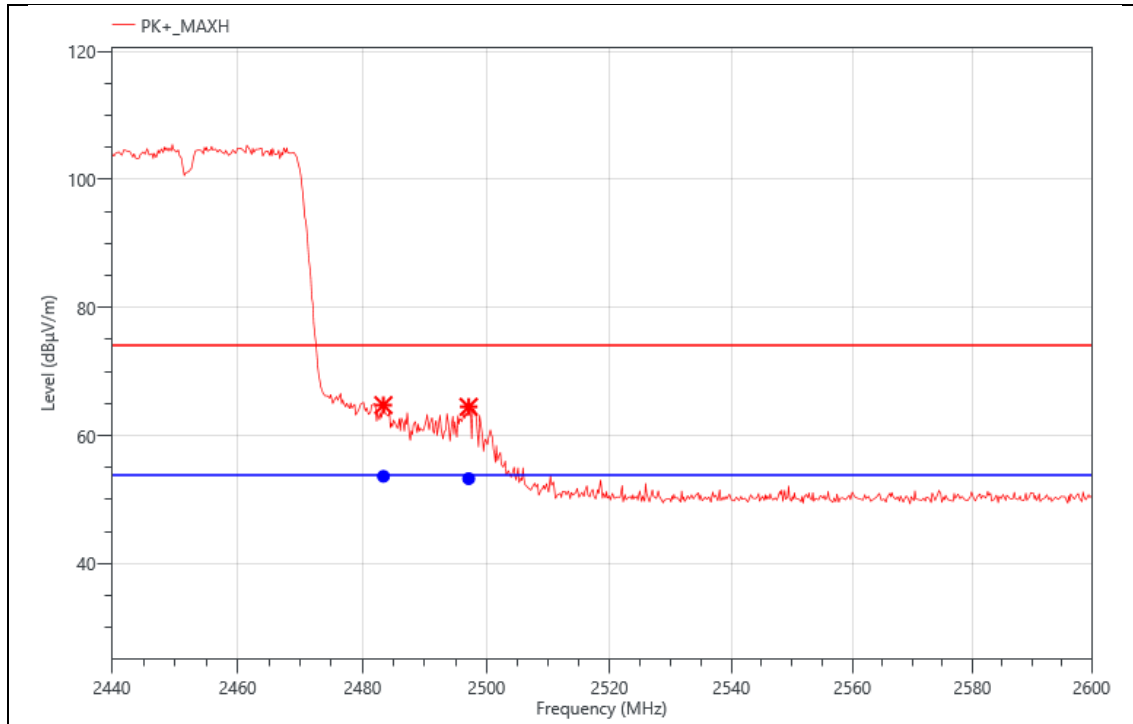
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	34.38	23.15	57.53	74.00	16.47	PK+	V
2	2497.440	37.22	23.12	60.34	74.00	13.66	PK+	V

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2483.500	26.48	23.15	49.63	53.90	4.27	AVG	V	PASS
2	2497.440	27.17	23.12	50.29	53.90	3.61	AVG	V	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	11N40-2452
Power:	DC 3.3V
TE:	BIG
Date	2025/11/20
T/A/P	22.3°C/51%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	41.60	23.15	64.75	74.00	9.25	PK+	H
2	2497.120	41.36	23.12	64.48	74.00	9.52	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2483.500	30.48	23.15	53.63	53.90	0.27	AVG	H	PASS
2	2497.120	30.15	23.12	53.27	53.90	0.63	AVG	H	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Standard	Requirement
RSS-Gen issue 5 6.8.	The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list. For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below). When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer. The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested. For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location: This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

	Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.
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DESCRIPTION

please refer to the original report.

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

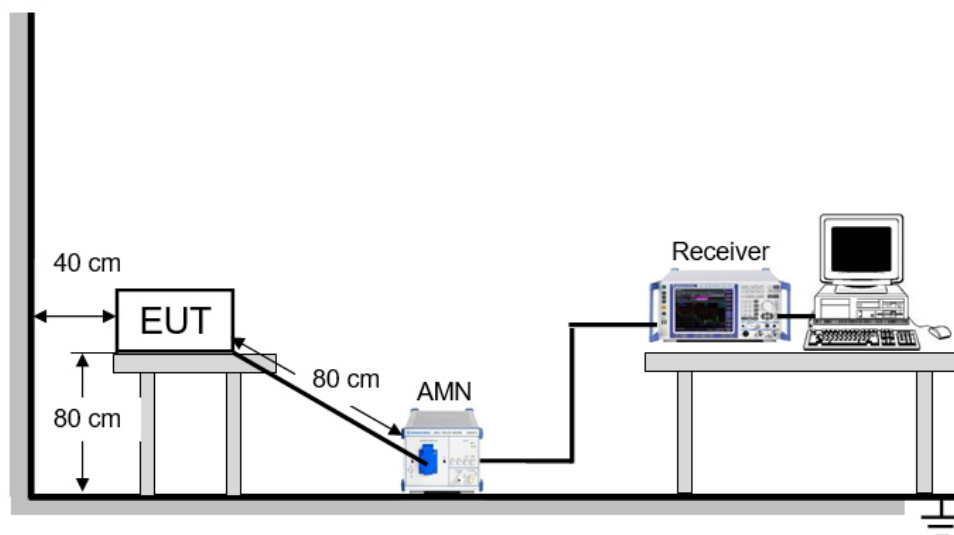
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of FCC: ANSI C63.10-2020, ISED: ANSI C63.10-2020+Cor.1-2023+C63.10a-2024. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

Temperature		Relative Humidity	
Atmosphere Pressure			

TEST RESULTS

please refer to the original report.

11. TEST DATA

Please refer to the original report.

END OF REPORT