



RADIO TEST REPORT

FCC ID : 2AYRA-100025
Equipment : Velop 7 Max
Brand Name : Linksys
Model Name : LNM620, LNM620WH, LNM620MS, LNM620EC, SPNM62
Applicant : Linksys USA, Inc.
121 Theory, Irvine, CA. 92617, USA
Standard : 47 CFR FCC Part 15.247

The product was received on May 15, 2025, and testing was started from May 15, 2025 and completed on Jul. 24, 2025. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2020 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Rex Liao

Sporton International Inc. Hsinchu Laboratory

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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10_6 Ver1.3

Page Number : 3 of 33
Issued Date : Jan. 26, 2026
Report Version : 01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen**Report Producer: Muse Chan**



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

Band	Mode	BWch (MHz)	Nant
2.4G	BT-LE(1Mbps)	1	1TX
2.4G	BT-LE(2Mbps)	2	1TX

Note:

- ♦ Bluetooth LE uses a GFSK modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port				Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz	6GHz	Bluetooth					
1	1	1	-	-	Galtronics	02102140-08200B-1	PCB Antenna	I-PEX	Note1
2	2	2	-	-	Galtronics	02102140-08200B-2	PCB Antenna	I-PEX	
3	-	-	1	1	Airgain	N08CBAUB-PK1-LG65U	PCB Antenna	I-PEX	
4	-	-	2	-	Airgain	N06CBAUA-T2M48-PK1-LA110U	PCB Antenna	I-PEX	



Note 1:

Notes:

Ant.	Antenna Gain (dBi)									Bluetooth
	WLAN 2.4GHz	WLAN 5GHz				WLAN 6GHz				
		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 8	
1	2.34	2.30	2.30	2.40	2.40	-	-	-	-	-
2	2.42	2.77	2.77	2.46	2.59	-	-	-	-	-
3	-	-	-	-	-	2.80	2.20	2.60	4.00	2.70
4	-	-	-	-	-	4.00	4.20	4.20	4.20	-

Note 2: The above information was declared by manufacturer.

<For 2.4GHz function>**For IEEE 802.11b/g/n/VHT/ax/be (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

<For 5GHz function>**For IEEE 802.11a/n/ac/ax/be (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

<For 6GHz function>**For IEEE 802.11ax/be (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

<For Bluetooth function> (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

Port 1 could transmit/receive simultaneously.

Note 3: Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left[\sum_{k=1}^{N_{sub}} g_{j,k} \right]^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left[\sum_{k=1}^{N_{sub}} g_{j,k} \right]^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left[\sum_{k=1}^{N_{sub}} g_{j,k} \right]^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left[\sum_{k=1}^{N_{sub}} g_{j,k} \right]^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ;$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$$

Where ;

$$2.4G \ G1 = 2.34 \text{ dBi} ; G2 = 2.42 \text{ dBi} ; DG = 5.39 \text{ dBi}$$

$$5G \ UNII-1 \ G1 = 2.3 \text{ dBi} ; G2 = 2.77 \text{ dBi} ; DG = 5.55 \text{ dBi}$$

$$5G \ UNII-2A \ G1 = 2.3 \text{ dBi} ; G2 = 2.77 \text{ dBi} ; DG = 5.55 \text{ dBi}$$

$$5G \ UNII-2C \ G1 = 2.4 \text{ dBi} ; G2 = 2.46 \text{ dBi} ; DG = 5.44 \text{ dBi}$$

$$5G \ UNII-3 \ G1 = 2.4 \text{ dBi} ; G2 = 2.59 \text{ dBi} ; DG = 5.51 \text{ dBi}$$

$$6G \ UNII-5 \ G1 = 2.8 \text{ dBi} ; G2 = 4 \text{ dBi} ; DG = 6.43 \text{ dBi}$$

$$6G \ UNII-6 \ G1 = 2.2 \text{ dBi} ; G2 = 4.2 \text{ dBi} ; DG = 6.27 \text{ dBi}$$

$$6G \ UNII-7 \ G1 = 2.6 \text{ dBi} ; G2 = 4.2 \text{ dBi} ; DG = 6.45 \text{ dBi}$$

$$6G \ UNII-8 \ G1 = 4 \text{ dBi} ; G2 = 4.2 \text{ dBi} ; DG = 7.11 \text{ dBi}$$

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-LE(1Mbps)	0.855	0.68	2.138m	500
BT-LE(2Mbps)	0.563	2.49	1.081m	1k

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter		
Function	☒ Point-to-multipoint	☐ Point-to-point	
Test Software Version	DOS [ver 6.7.7061]		
Support Mode	☒ LE 1M PHY: 1 Mb/s		
	☐ LE Coded PHY (S=2): 500 Kb/s		
	☐ LE Coded PHY (S=8): 125 Kb/s		
	☒ LE 2M PHY: 2 Mb/s		

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
LNM620	For retail
LNM620WH	For warehouse
LNM620MS	For superstore
LNM620EC	For e-commerce
SPNM62	For service provider

Note 1: From the above models, model: LNM620 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.1.6 Table for EUT Support Function

Function	Support
AP Router	WLAN 2.4GHz, 5GHz UNII 1~3, 6GHz UNII 5~8 and Bluetooth
Mesh	WLAN 5GHz UNII 1~3 and 6GHz UNII 5~8

Note 1: For above table list, only AP Router mode was tested and recorded in this test.

Note 2: The above information was declared by manufacturer.



1.2 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15.247
- ♦ ANSI C63.10-2020

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) TEL: 886-3-656-9065 FAX: 886-3-656-9085 Test site Designation No. TW3787 with FCC. Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Richard Pai	24.4-25.1 / 61-66	May 26, 2025~ Jun. 19, 2025
Radiated (below 1G)	03CH04-CB	Serway Lee	21.4~22.6 / 57~61	May 15, 2025~ Jul. 01, 2025
Radiated (above 1G)	03CH01-CB		21.3~22.3 / 58~61	
Radiated (co-location emission)	03CH05-CB		21.5~22.9 / 57~60	
AC Conduction	CO01-CB	Rick Shen	22~23 / 58~59	Jul. 24, 2025



1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Date: Date Before May 28, 2025

Test Items	Uncertainty	Remark
Radiated Emission (9kHz ~ 30MHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.0 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.1 %	Confidence levels of 95%

Test Date: Date After May 27, 2025

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.0 dB	Confidence levels of 95%
Bandwidth Measurement	1.0 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
BT-LE(1Mbps)
2402MHz
2440MHz
2480MHz
BT-LE(2Mbps)
2402MHz
2440MHz
2480MHz

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
	After evaluating, the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis + Adapter 1 + US plug_WLAN 2.4GHz
2	EUT in Y axis + Adapter 2_WLAN 2.4GHz
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3~5 will follow this same test mode.	
3	EUT in Y axis + Adapter 2_WLAN 5GHz
4	EUT in Y axis + Adapter 2_WLAN 6GHz
5	EUT in Y axis + Adapter 2_Bluetooth
For operating mode 5 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains



The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
	After evaluating, the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis + Adapter 1 + US plug_WLAN 2.4GHz
2	EUT in Y axis + Adapter 2_WLAN 2.4GHz
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3~5 will follow this same test mode.	
3	EUT in Y axis + Adapter 1 + US plug_WLAN 5GHz
4	EUT in Y axis + Adapter 1 + US plug_WLAN 6GHz
5	EUT in Y axis + Adapter 1 + US plug_Bluetooth
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	After evaluating, the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
	After evaluating, the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis_WLAN 2.4GHz + WLAN 5GHz
2	EUT in Y axis_WLAN 6GHz + Bluetooth
For operating mode 1 is the worst case and it was record in this test report.	
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz + WLAN 6GHz + Bluetooth
Refer to Sporton Test Report No.: FA542105-01 for Co-location RF Exposure Evaluation.	



2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter 1 (Interchangeable plug)	Ktec	KSA-45P-45W D5	INPUT: 100-240V~50/60Hz, 1.5A OUTPUT: 5.0V, 3.0A, 15.0W, 9.0V, 3.0A, 27.0W, 12.0V, 3.0A, 36.0W, 15.0V, 3.0A, 45.0W, 20.0V, 2.25A, 45.0W, 3.3-21.0V, 2.25A Max, 45.0w Max. 3.3-16.0V, 3.0A Max, 45.0w Max.
Adapter 2 (Fixed plug)	Frecom	FC045P13-150300U	INPUT: 100-240V~50/60Hz, 1.2A OUTPUT: 5.0V, 3.0A, 15.0W ; 9.0V, 3.0A, 27.0W ; 12.0V, 3.0A, 36.0W ; 15.0V, 3.0A, 45.0W
Others			
RJ-45 cable 1*1, non-shielded, 1.8m			
RJ-45 cable 2*1, non-shielded, 0.9m			
USB Type C cable*1, shielded, 1.5m (only for adapter 1 use)			
US plug*1 (only for adapter 1 use)			



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Type-C Flash disk	Kingston	DT70	N/A
B	2.5G Port 2 (LAN)NB	DELL	E6430	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
C	Notebook	DELL	E4300	N/A

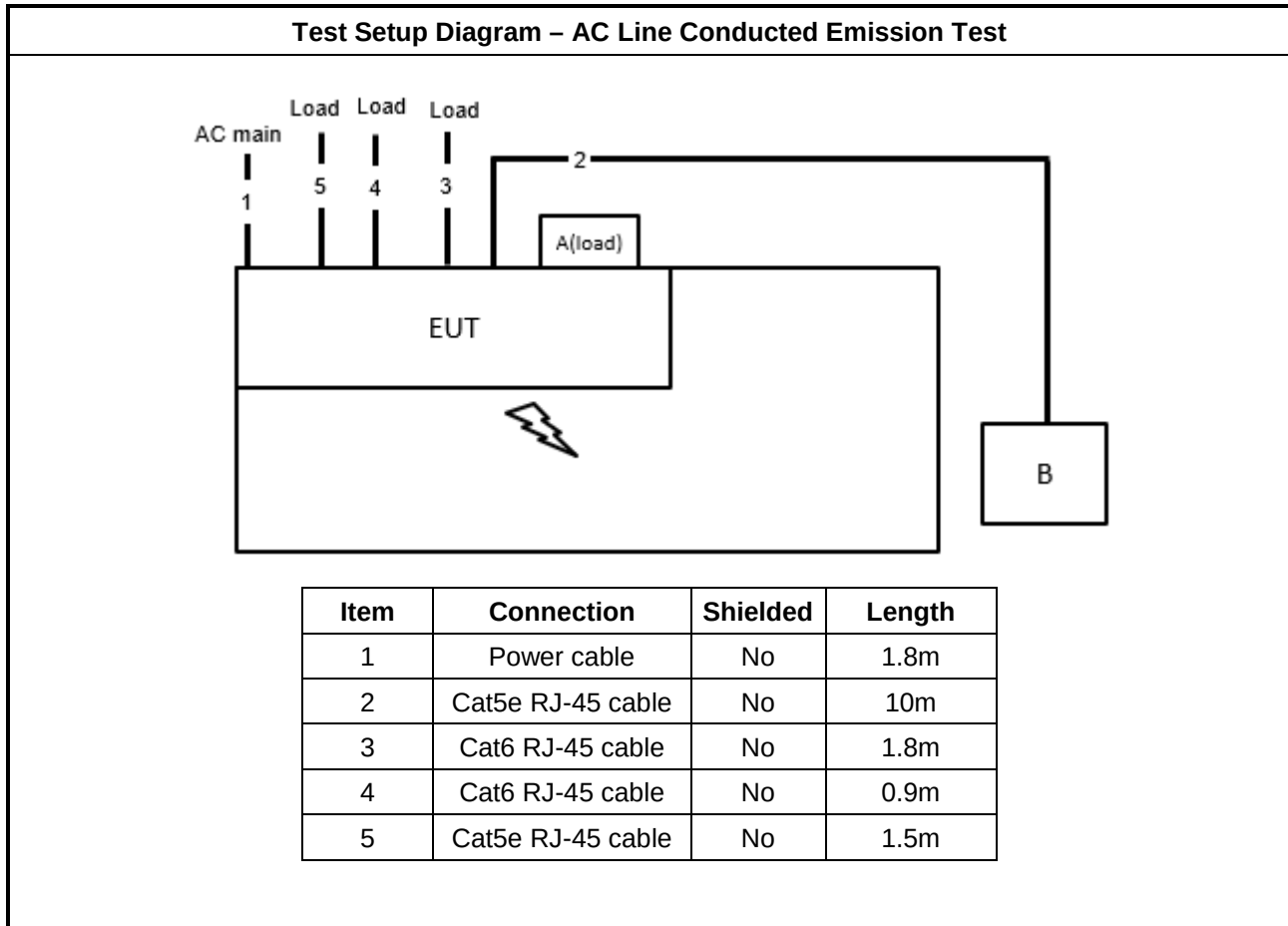
For Radiated (above 1GHz):

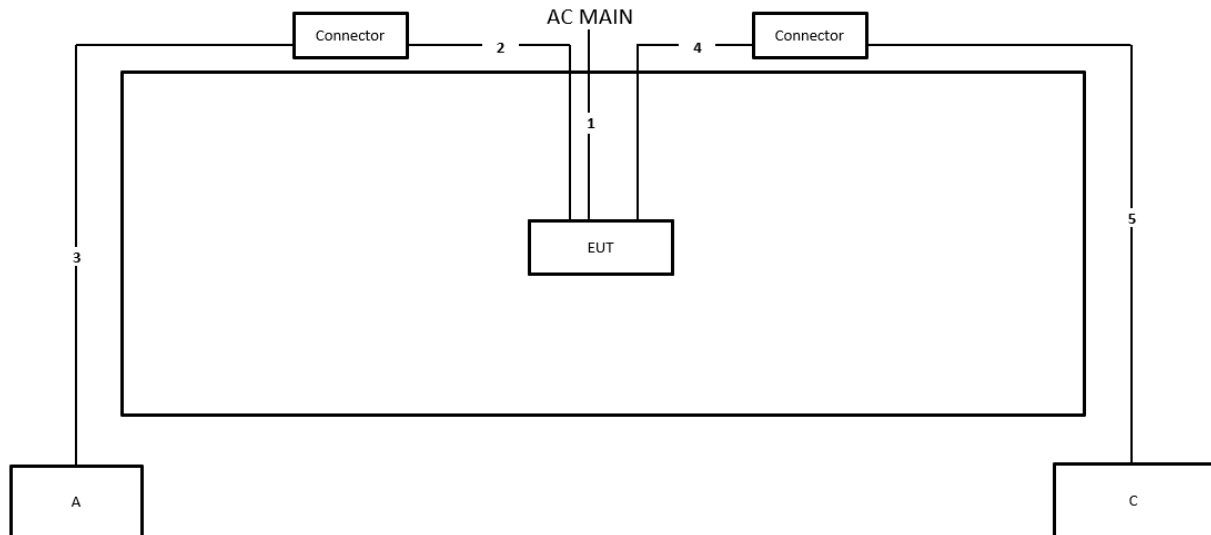
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

For RF Conducted:

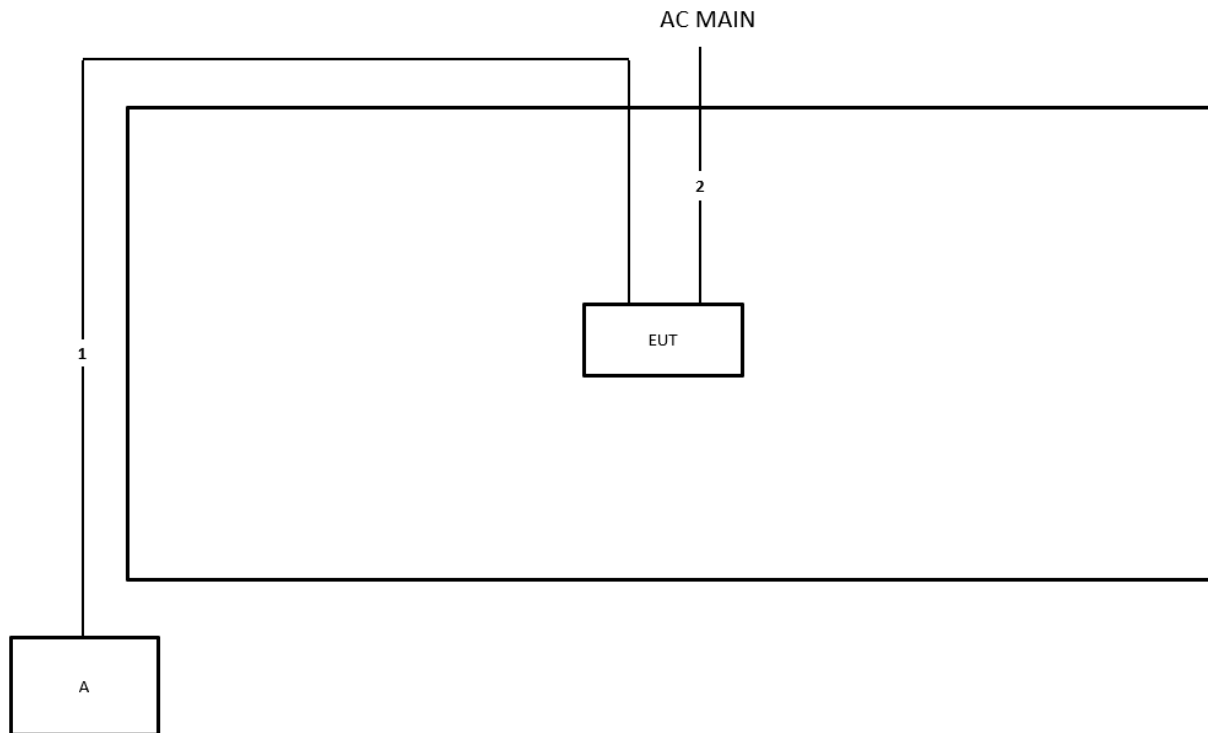
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	Yes	1.5m
2	RJ-45 cable	No	0.9m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	1.8m
5	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	Yes	1.5m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

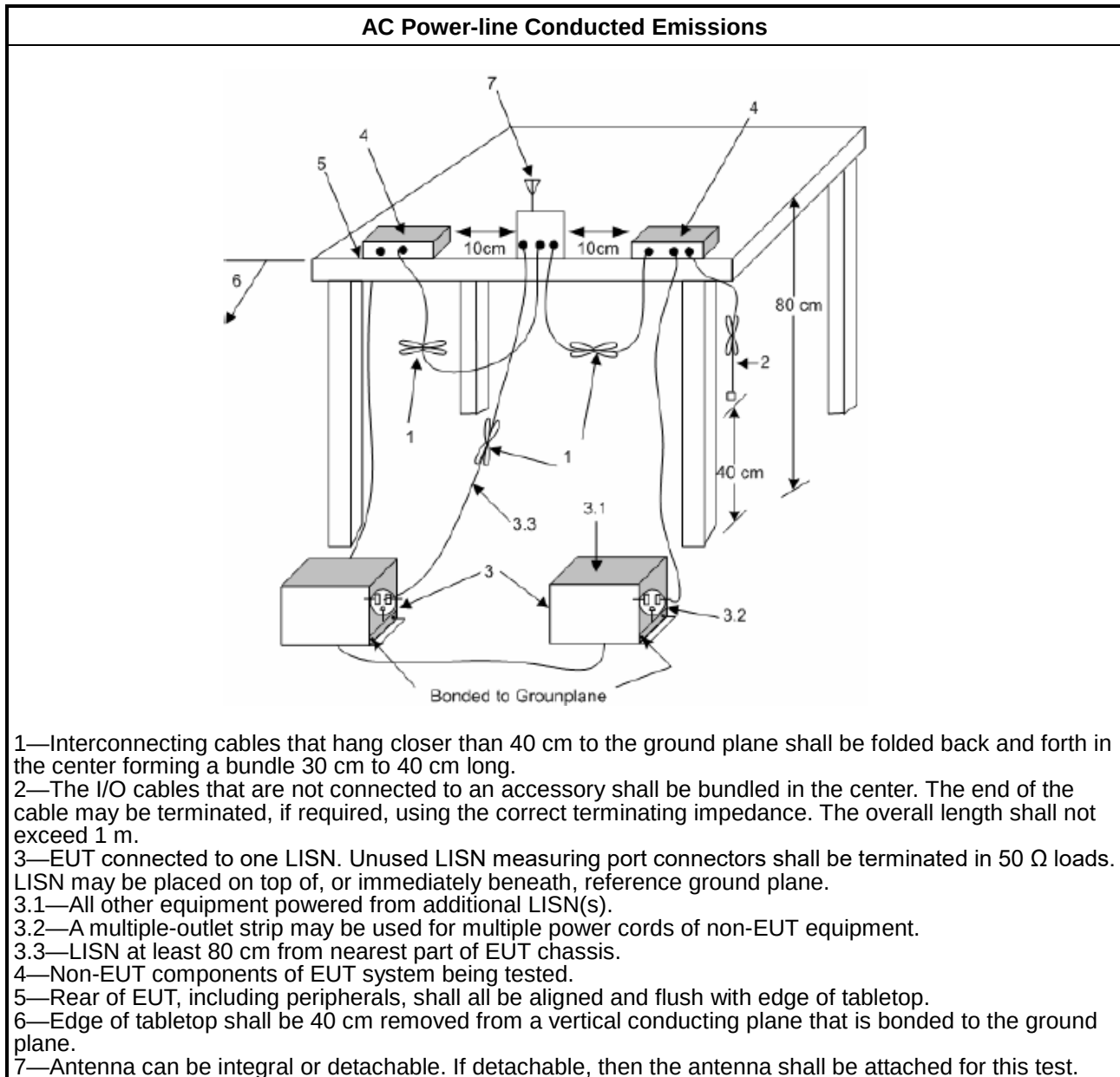
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2020, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



1.1.1. Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- Margin = -Limit + Level

3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
6 dB bandwidth $\geq$ 500 kHz.

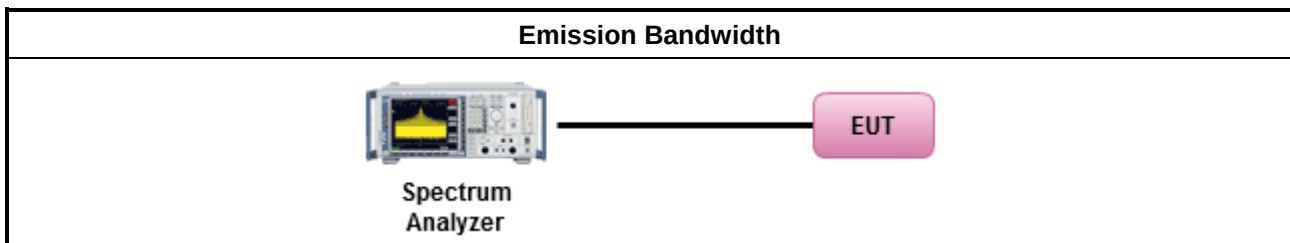
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method
For the emission bandwidth shall be measured using one of the options below:
☒ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	▪ Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

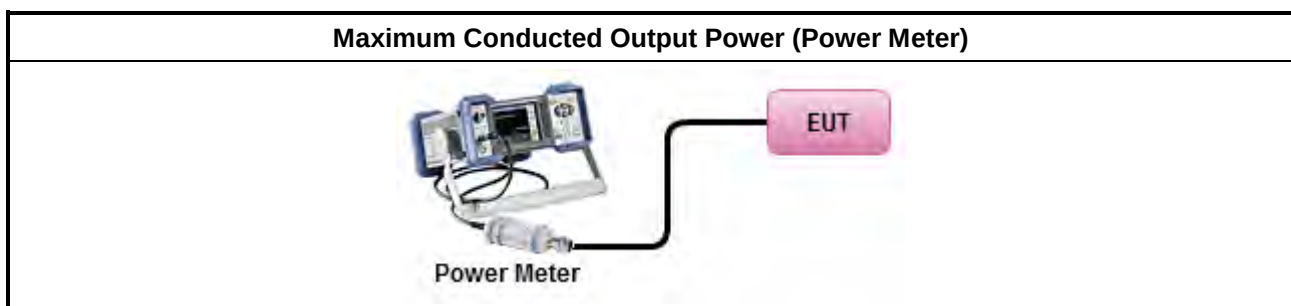
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
☐	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
☒	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup





3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

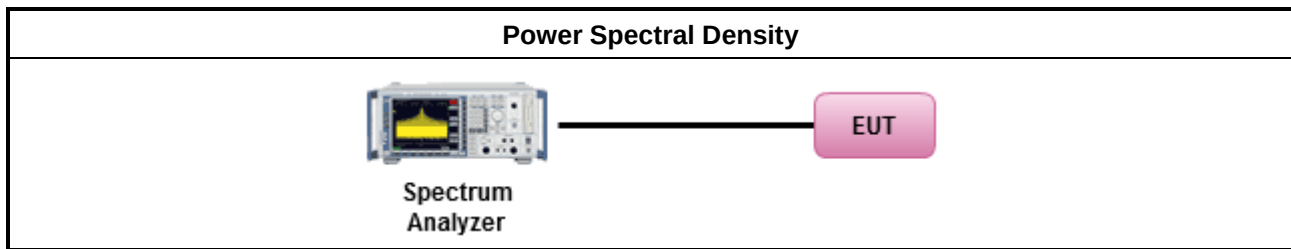
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).	
☒	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD. [duty cycle $\geq 98\%$ or external video / power trigger]
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit chains using options given below:	
☐	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add $10 \log(N)$ dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with $10 \log(N)$. Or each transmit chains shall be add $10 \log(N)$ to compared with the limit.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.	

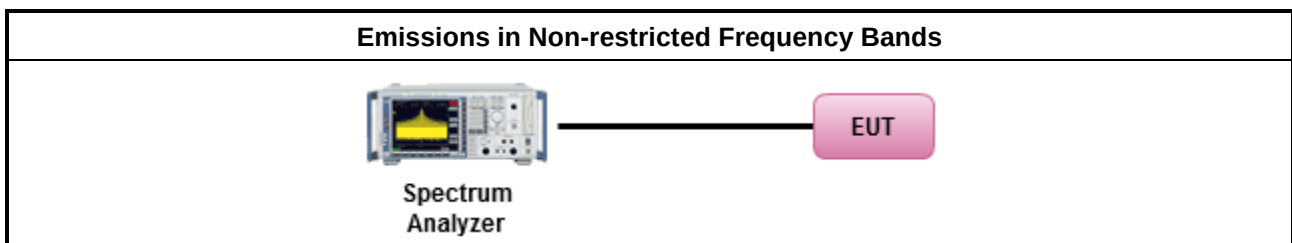
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method
Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E



3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB / decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.6.2 Measuring Instruments

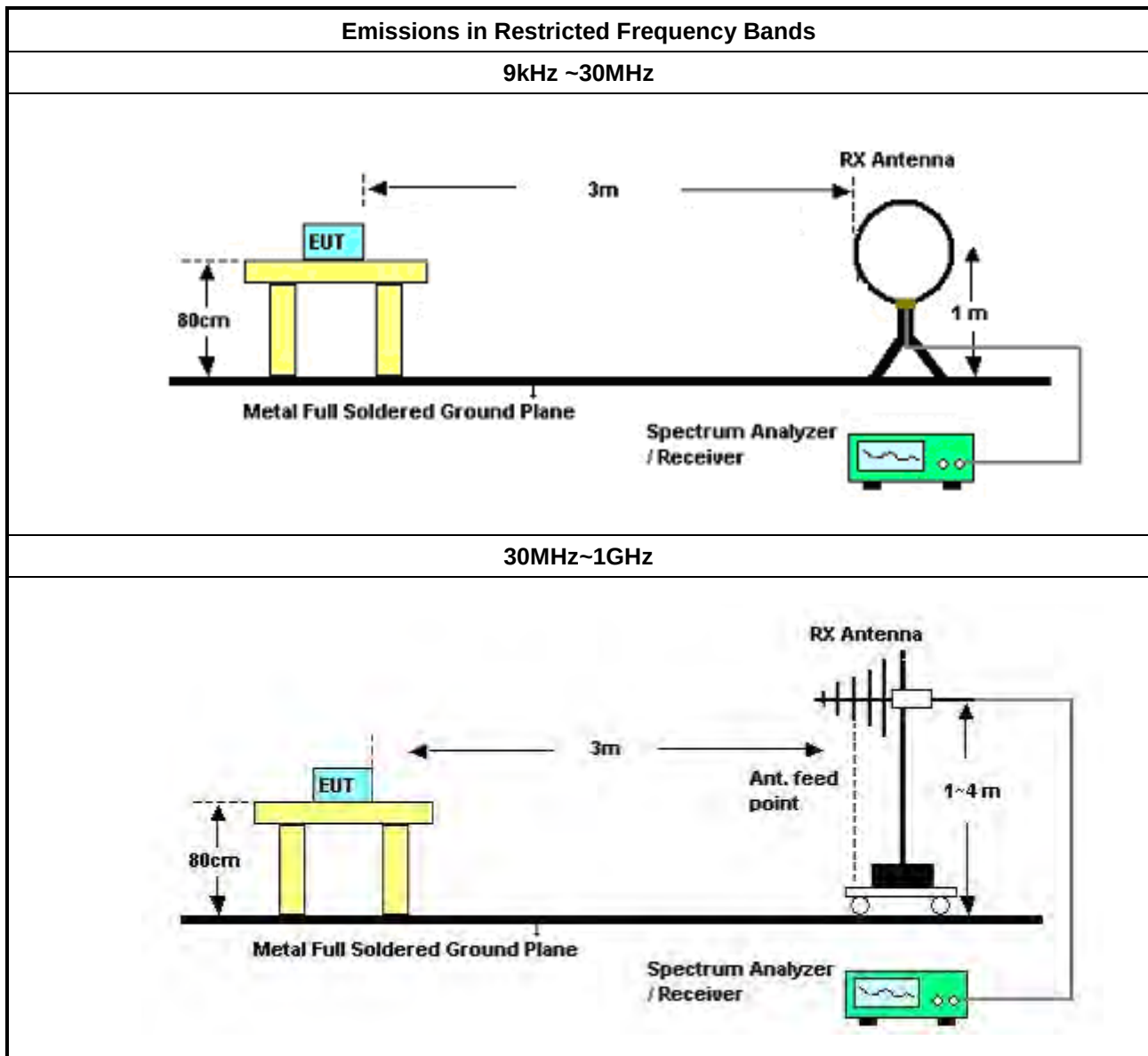
Refer a test equipment and calibration data table in this test report.

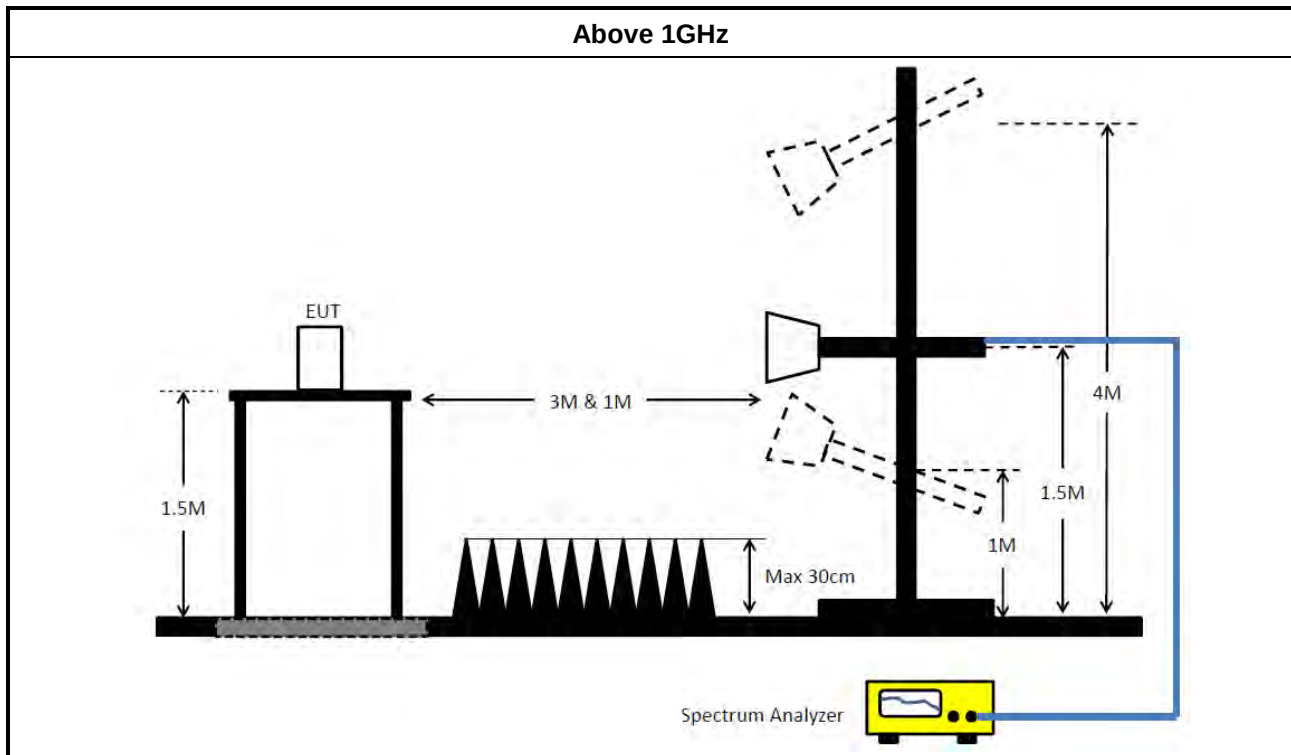


3.6.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074 clause 8.7 & c63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 06, 2025	Mar. 05, 2026	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 18, 2025	Feb. 17, 2026	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	May 10, 2025	May 09, 2026	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO01-CB)
COND Cable	Woken	Cable	CO01	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 17, 2024	Oct. 16, 2025	Radiation (03CH04-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH04-CB	30 MHz ~ 1 GHz	Jul. 31, 2024	Jul. 30, 2025	Radiation (03CH04-CB)
BILOG ANTENNA with 6 dB attenuator	Schaffner & EMCi	CBL6112B & N-6-06	22021&AT-N06 07	30MHz ~ 1GHz	Oct. 05, 2024	Oct. 04, 2025	Radiation (03CH04-CB)
Pre-Amplifier	EMCI	EMC330N	980391	20MHz ~ 3GHz	May 22, 2024	May 21, 2025	Radiation (03CH04-CB)
Pre-Amplifier	EMCI	EMC330N	980391	20MHz ~ 3GHz	May 21, 2025	May 20, 2026	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 24, 2025	Mar. 23, 2026	Radiation (03CH04-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 21, 2024	Oct. 20, 2025	Radiation (03CH04-CB)
RF Cable-low	Woken	RG402	Low Cable-03+67	30MHz ~ 1GHz	Apr. 25, 2025	Apr. 24, 2026	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 03, 2025	May 02, 2026	Radiation (03CH01-CB)
Horn Antenna	ETS-Lindgren	3115	00143147	750MHz~18GHz	Oct. 18, 2024	Oct. 17, 2025	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 17, 2024	May 16, 2025	Radiation (03CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 16, 2025	May 15, 2026	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Dec. 12, 2024	Dec. 11, 2025	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Apr. 30, 2025	Apr. 29, 2026	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.23	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Sep. 28, 2024	Sep. 27, 2025	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 20, 2024	Jun. 19, 2025	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 06, 2025	Jun. 05, 2026	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jun. 29, 2024	Jun. 28, 2025	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jun. 28, 2025	Jun. 27, 2026	Radiation (03CH05-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 21, 2025	Apr. 20, 2026	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Apr. 30, 2025	Apr. 29, 2026	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH05-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 02, 2025	Jan. 01, 2026	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 06, 2024	Sep. 05, 2025	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 06, 2024	Sep. 05, 2025	Conducted (TH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable	Woken	RG402	High Cable-11	30MHz –18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-12	30MHz –18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-13	30MHz –18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1~18GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH03-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.23	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Conducted (TH03-CB)

Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.



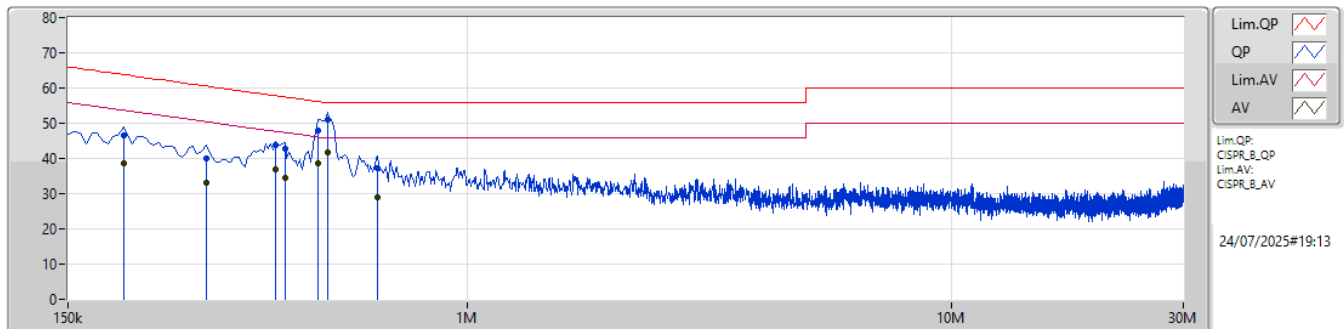
Conducted Emissions at Powerline

Appendix A

Summary

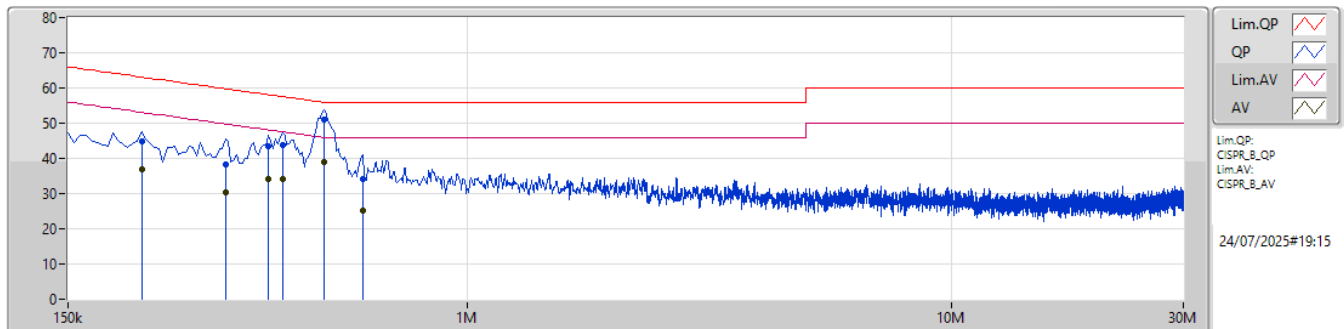
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 5	Pass	AV	514.5k	41.83	46.00	-4.17	Line

Mode 5



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	PA (dB)	AT (dB)				
QP	195k	46.44	63.82	-17.38	10.06	Line	-	36.38	0.06	0.07	0.02	9.95				
AV	195k	38.62	53.82	-15.20	10.06	Line	-	28.56	0.06	0.07	0.02	9.95				
QP	289.5k	40.00	60.53	-20.53	10.12	Line	-	29.88	0.05	0.09	0.03	10.01				
AV	289.5k	33.07	50.53	-17.46	10.12	Line	-	22.95	0.05	0.09	0.03	10.01				
QP	402k	43.90	57.82	-13.92	10.18	Line	-	33.72	0.05	0.10	0.03	10.06				
AV	402k	36.75	47.82	-11.07	10.18	Line	-	26.57	0.05	0.10	0.03	10.06				
QP	420k	42.74	57.45	-14.71	10.19	Line	-	32.55	0.05	0.10	0.03	10.07				
AV	420k	34.52	47.45	-12.93	10.19	Line	-	24.33	0.05	0.10	0.03	10.07				
QP	492k	47.86	56.13	-8.27	10.21	Line	-	37.65	0.06	0.10	0.03	10.08				
AV	492k	38.71	46.13	-7.42	10.21	Line	-	28.50	0.06	0.10	0.03	10.08				
QP	514.5k	51.01	56.00	-4.99	10.21	Line	-	40.80	0.06	0.10	0.04	10.09				
AV	514.5k	41.83	46.00	-4.17	10.21	Line	"Worst"	31.62	0.06	0.10	0.04	10.09				
QP	654k	37.10	56.00	-18.90	10.23	Line	-	26.87	0.07	0.09	0.04	10.11				
AV	654k	28.96	46.00	-17.04	10.23	Line	-	18.73	0.07	0.09	0.04	10.11				

Mode 5



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	PA (dB)	AT (dB)				
QP	213k	44.93	63.09	-18.16	10.06	Neutral	-	34.87	0.08	0.07	0.05	9.96				
AV	213k	36.77	53.09	-16.32	10.06	Neutral	-	26.71	0.08	0.07	0.05	9.96				
QP	316.5k	38.23	59.80	-21.57	10.13	Neutral	-	28.10	0.08	0.09	0.06	10.02				
AV	316.5k	30.30	49.80	-19.50	10.13	Neutral	-	20.17	0.08	0.09	0.06	10.02				
QP	388.5k	43.29	58.10	-14.81	10.18	Neutral	-	33.11	0.08	0.10	0.06	10.06				
AV	388.5k	34.05	48.10	-14.05	10.18	Neutral	-	23.87	0.08	0.10	0.06	10.06				
QP	415.5k	43.79	57.53	-13.74	10.18	Neutral	-	33.61	0.08	0.10	0.06	10.06				
AV	415.5k	34.08	47.53	-13.45	10.18	Neutral	-	23.90	0.08	0.10	0.06	10.06				
QP	505.5k	50.93	56.00	-5.07	10.20	Neutral	"Worst"	40.73	0.08	0.10	0.07	10.09				
AV	505.5k	38.80	46.00	-7.20	10.20	Neutral	-	28.60	0.08	0.10	0.07	10.09				
QP	609k	34.31	56.00	-21.69	10.22	Neutral	-	24.09	0.08	0.10	0.07	10.11				
AV	609k	25.24	46.00	-20.76	10.22	Neutral	-	15.02	0.08	0.10	0.07	10.11				

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	723.75k	1.055M	1M06F1D	625k	1.041M
BT-LE(2Mbps)	1.31M	2.09M	2M09F1D	900k	2.078M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

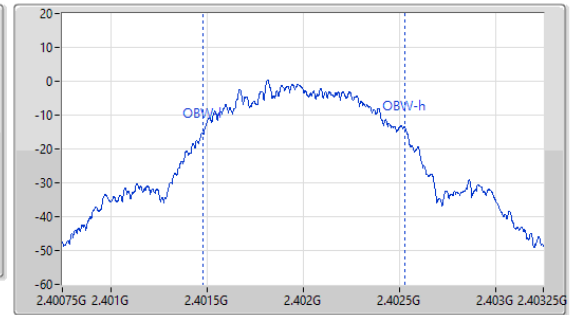
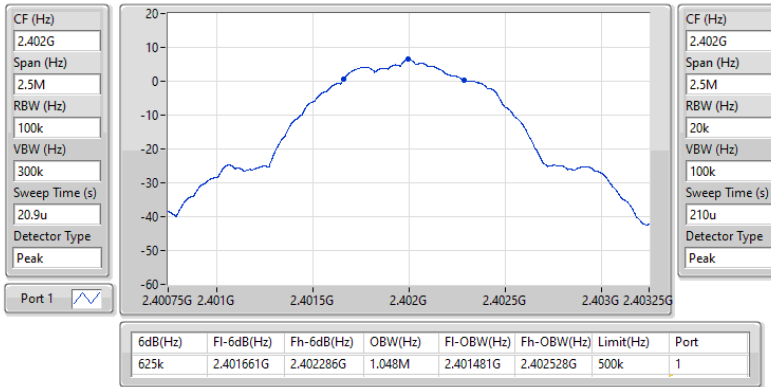
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	625k	1.048M
2440MHz	Pass	500k	700k	1.055M
2480MHz	Pass	500k	723.75k	1.041M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	900k	2.078M
2440MHz	Pass	500k	1.18M	2.086M
2480MHz	Pass	500k	1.31M	2.09M

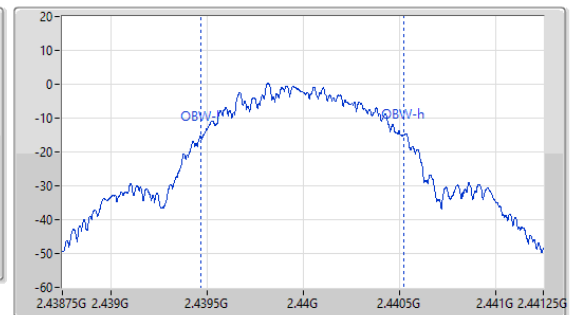
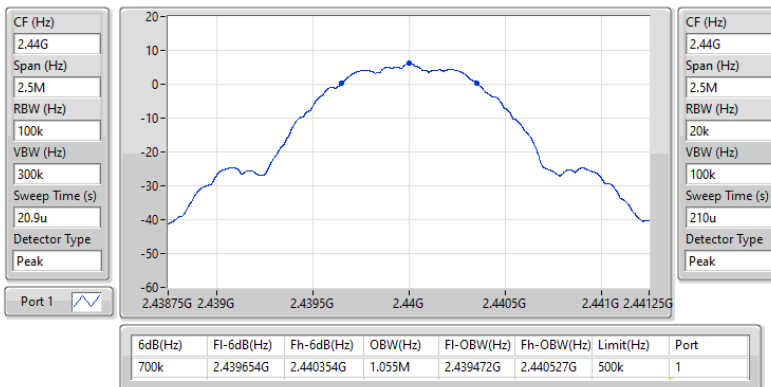
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2402MHz

19/06/2025


2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2440MHz

19/06/2025

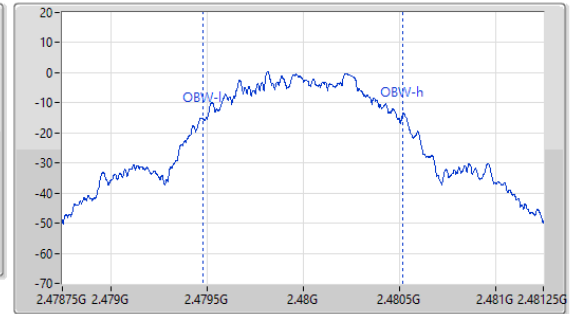
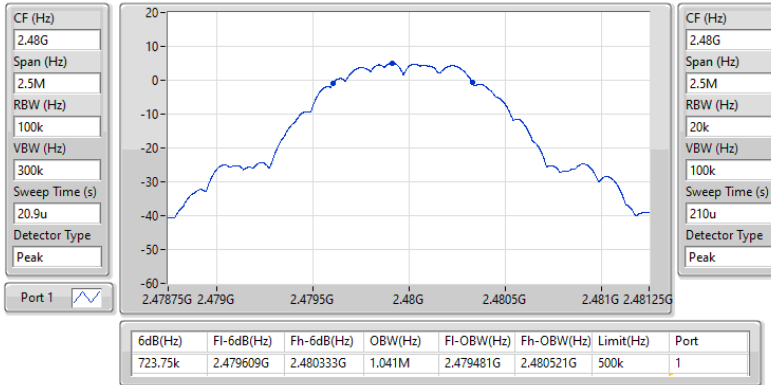


2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

2480MHz

19/06/2025

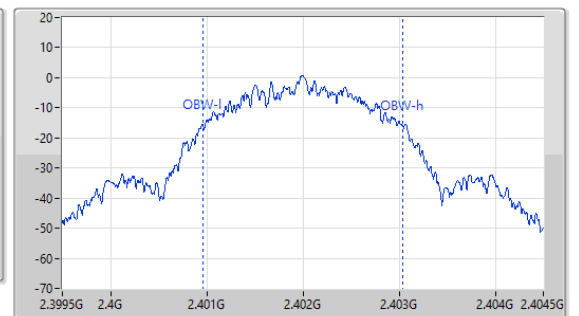
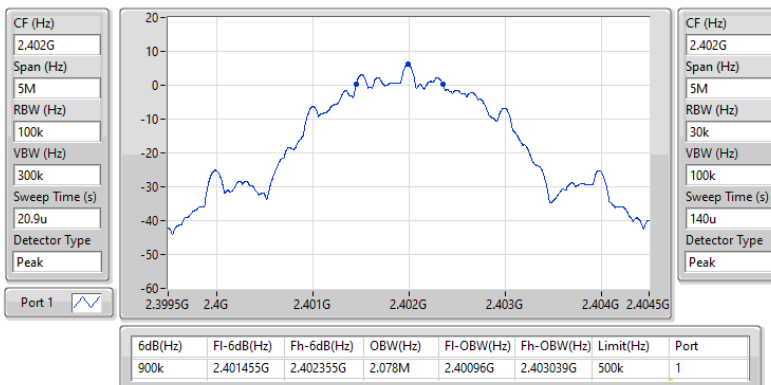


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2402MHz

19/06/2025

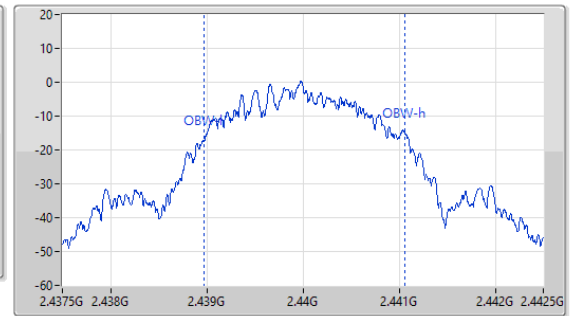
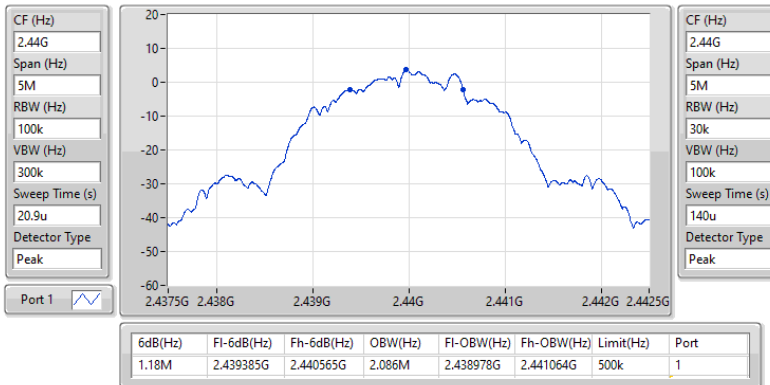


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2440MHz

19/06/2025

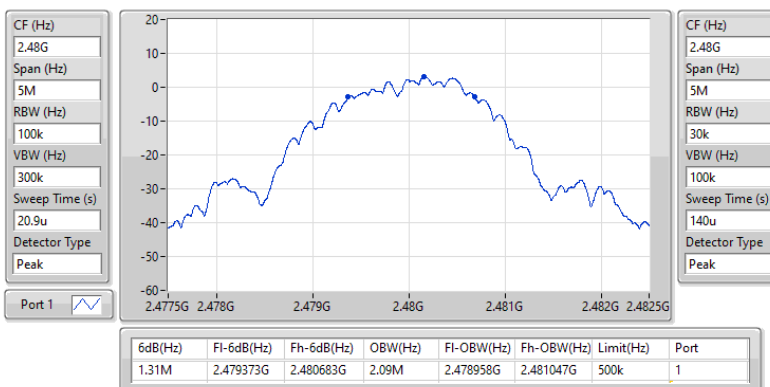


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2480MHz

19/06/2025





Average Power-DTS

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	7.57	0.00571
BT-LE(2Mbps)	7.56	0.00570

**Result**

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.70	7.53	30.00
2440MHz	Pass	2.70	7.57	30.00
2480MHz	Pass	2.70	7.31	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.70	7.40	30.00
2440MHz	Pass	2.70	7.56	30.00
2480MHz	Pass	2.70	7.18	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-10.30
BT-LE(2Mbps)	-10.72

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.70	-10.84	8.00
2440MHz	Pass	2.70	-10.30	8.00
2480MHz	Pass	2.70	-10.39	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.70	-10.72	8.00
2440MHz	Pass	2.70	-10.96	8.00
2480MHz	Pass	2.70	-10.72	8.00

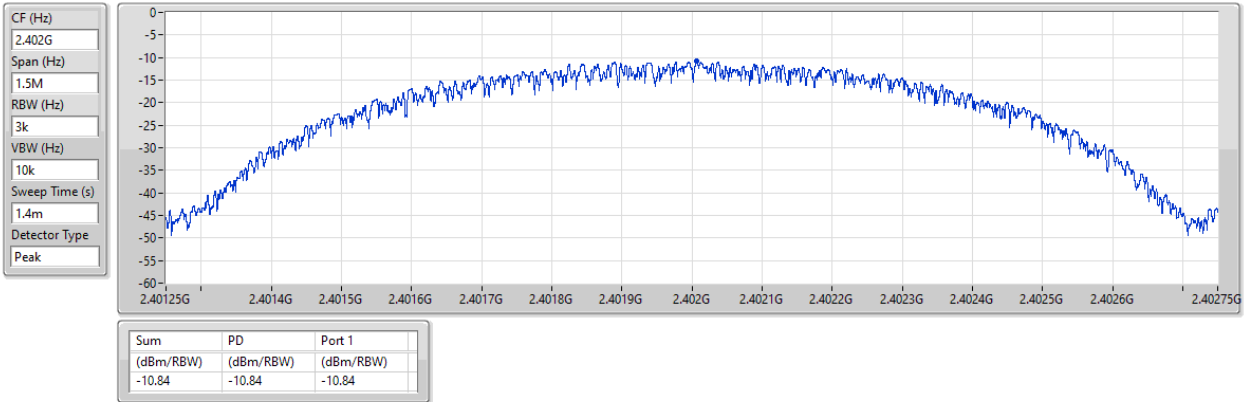
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2402MHz

19/06/2025

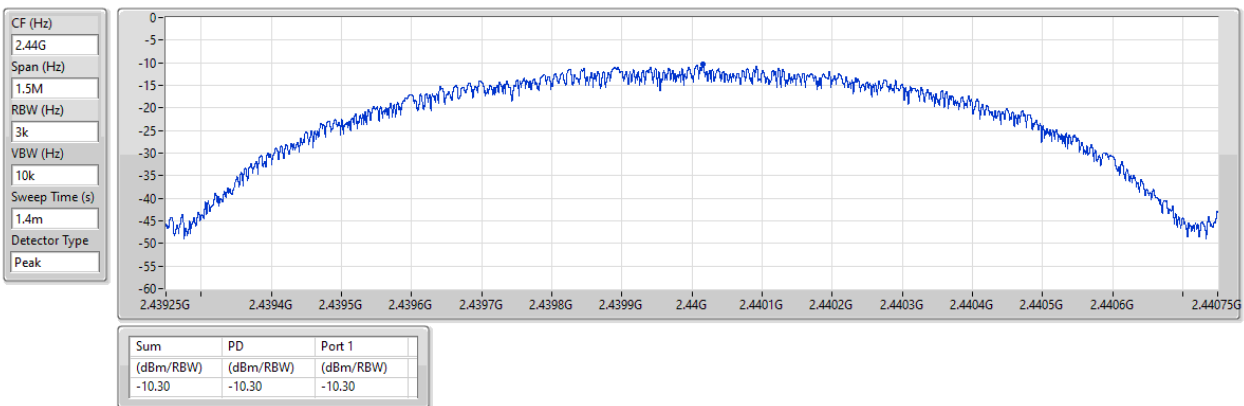


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2440MHz

19/06/2025

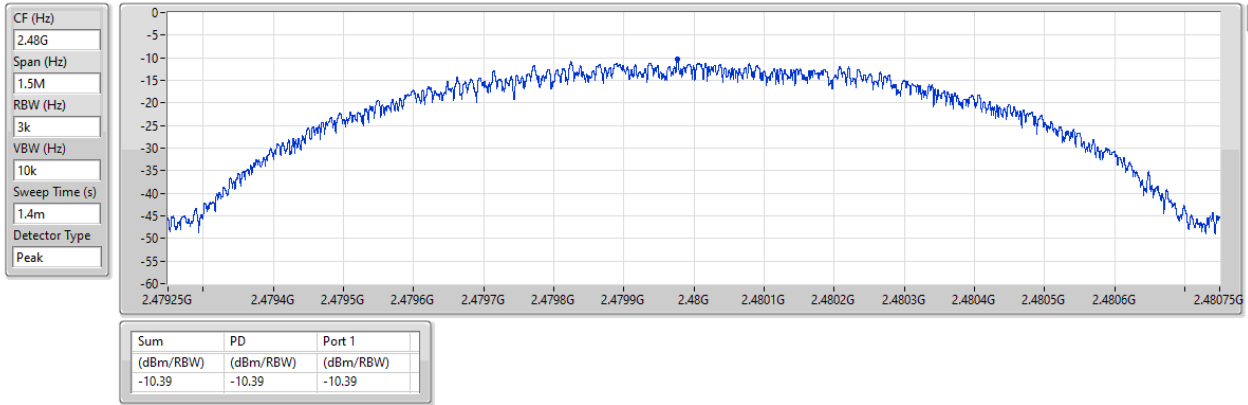


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2480MHz

19/06/2025

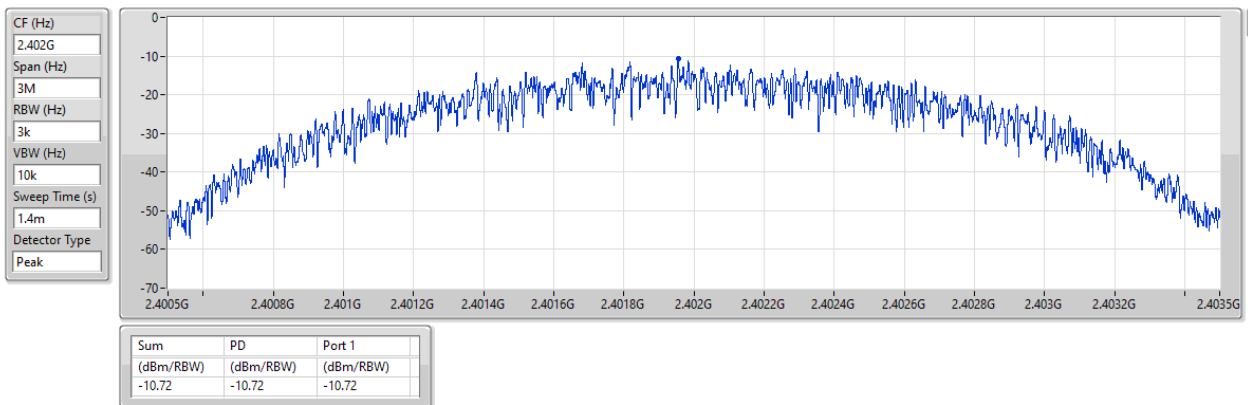


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2402MHz

19/06/2025

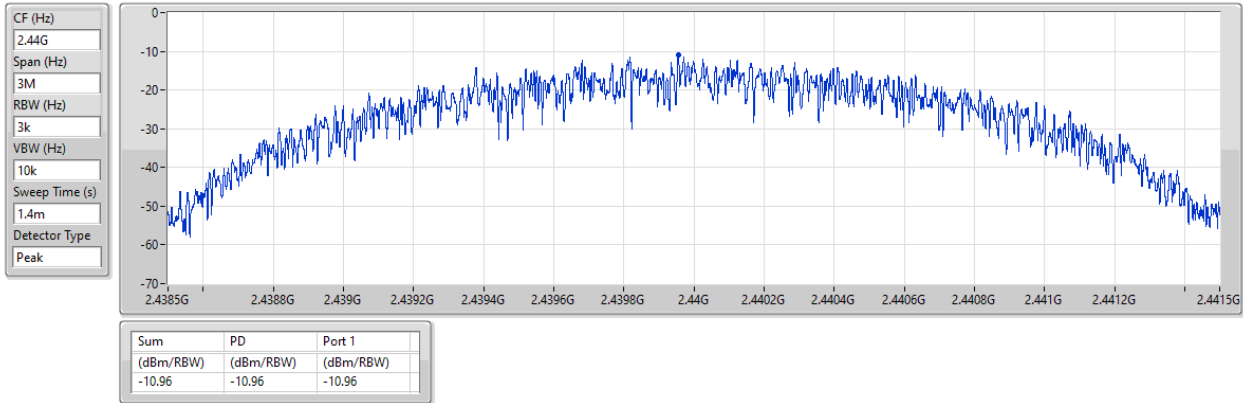


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

19/06/2025

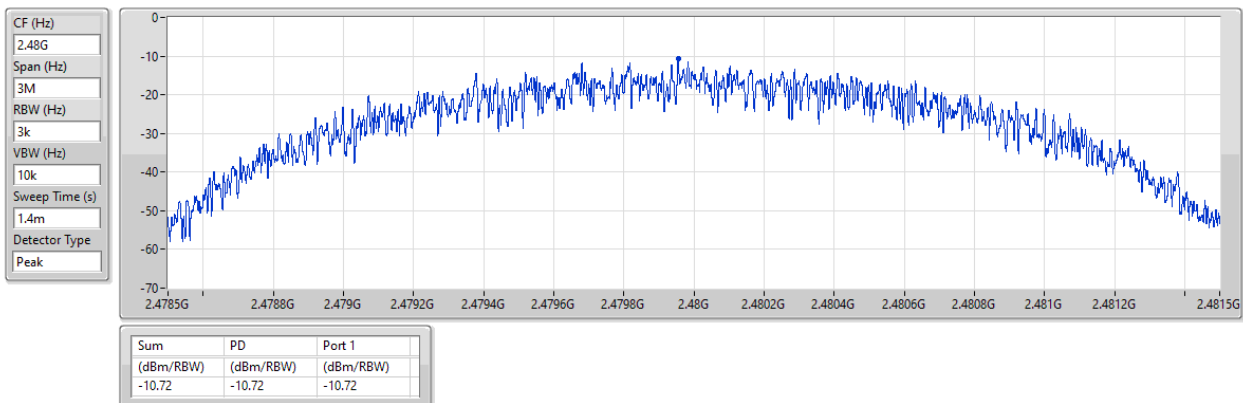


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2480MHz

19/06/2025



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.44008G	6.63	-23.37	47.63M	-52.58	2.39996G	-45.81	2.4G	-45.64	2.50158G	-55.20	21.68177G	-47.01	1
BT-LE(2Mbps)	Pass	2.44008G	6.67	-23.33	1.72553G	-53.04	2.4G	-25.54	2.4G	-26.23	2.50086G	-55.23	21.63115G	-47.27	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.44008G	6.63	-23.37	47.63M	-52.58	2.39996G	-45.81	2.4G	-45.64	2.50158G	-55.20	21.68177G	-47.01	1
2440MHz	Pass	2.44008G	6.63	-23.37	2.15675G	-53.38	2.3948G	-53.72	2.4G	-56.43	2.50338G	-54.33	6.92125G	-47.09	1
2480MHz	Pass	2.44008G	6.63	-23.37	2.16968G	-54.06	2.39132G	-54.03	2.4G	-56.63	2.50078G	-54.08	21.69864G	-46.90	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.44008G	6.67	-23.33	1.72553G	-53.04	2.4G	-25.54	2.4G	-26.23	2.50086G	-55.23	21.63115G	-47.27	1
2440MHz	Pass	2.44008G	6.67	-23.33	2.07333G	-53.00	2.39392G	-54.72	2.4G	-55.63	2.5015G	-53.26	21.78862G	-46.88	1
2480MHz	Pass	2.44008G	6.67	-23.33	1.65268G	-53.88	2.39628G	-54.57	2.4G	-55.17	2.50058G	-54.79	23.17216G	-46.97	1

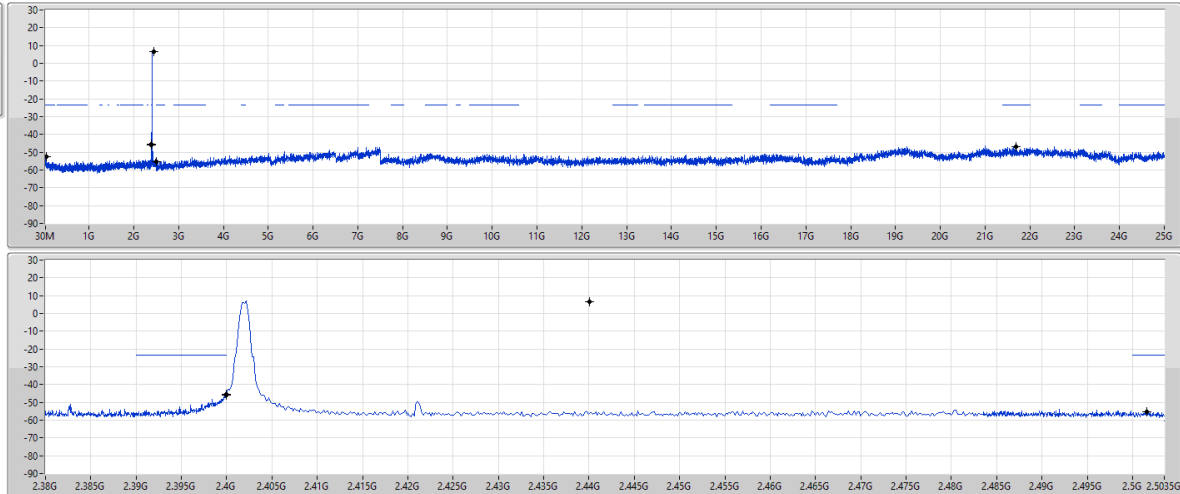
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2402MHz

19/06/2025

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44008G	6.63	-23.37	47.63M	-52.58	2.39996G	-45.81	2.4G	-45.64	2.50198G	-55.20	21.68177G	-47.01	1

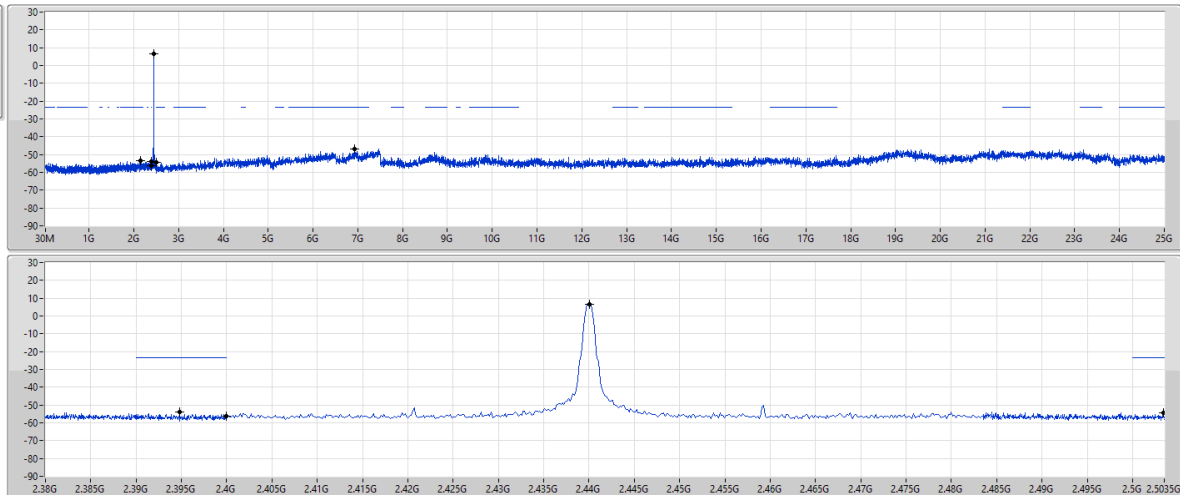
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2440MHz

19/06/2025

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44008G	6.63	-23.37	2.15675G	-53.38	2.3948G	-53.72	2.4G	-56.43	2.50338G	-54.33	6.92125G	-47.09	1

2.4-2.4835GHz_BT-LE(1Mbps)

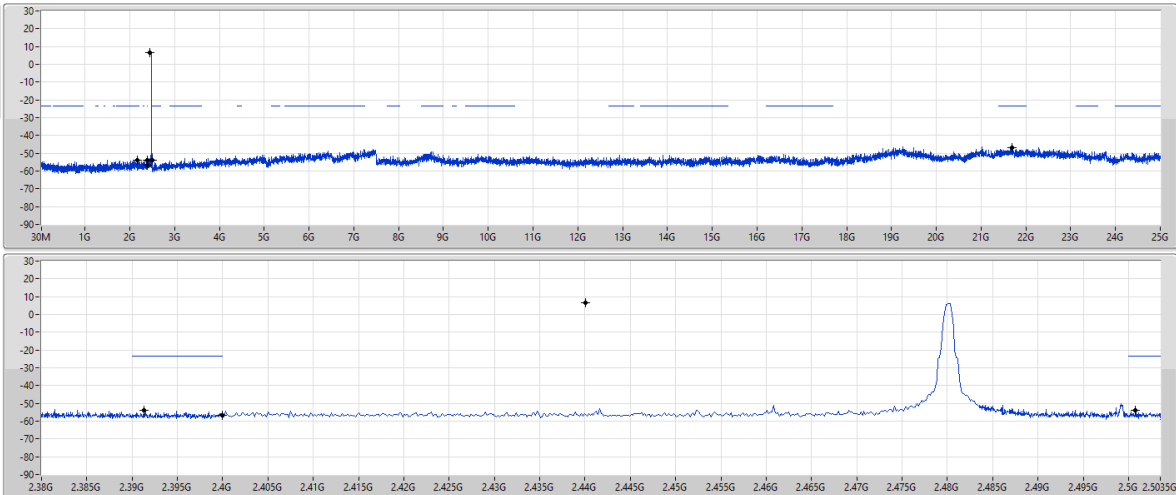
CSEndB-DTS

2480MHz

19/06/2025

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Port 1



2.4-2.4835GHz_BT-LE(2Mbps)

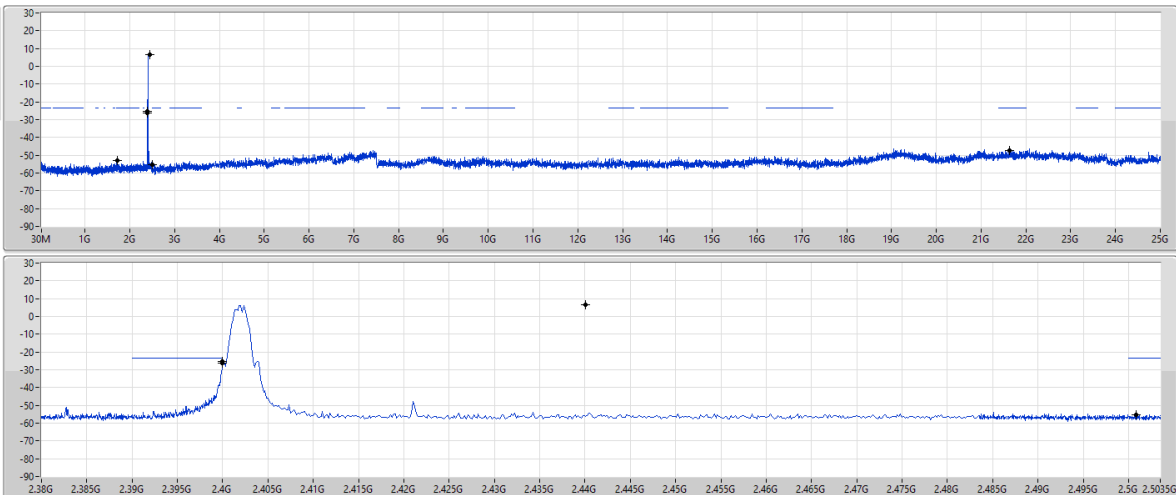
CSEndB-DTS

2402MHz

19/06/2025

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Port 1

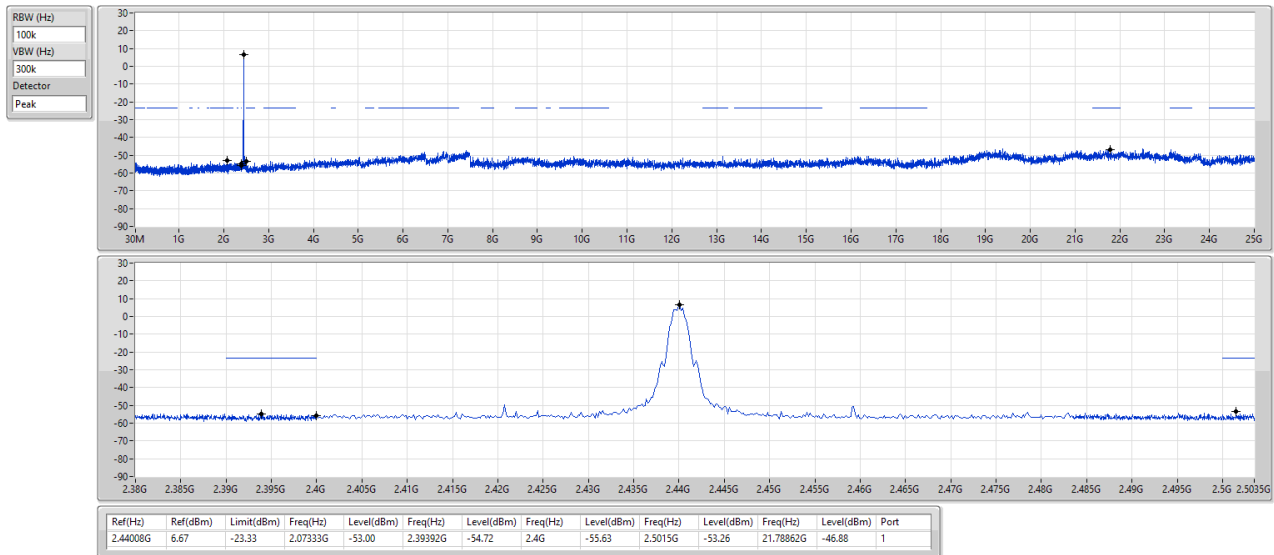


2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2440MHz

19/06/2025

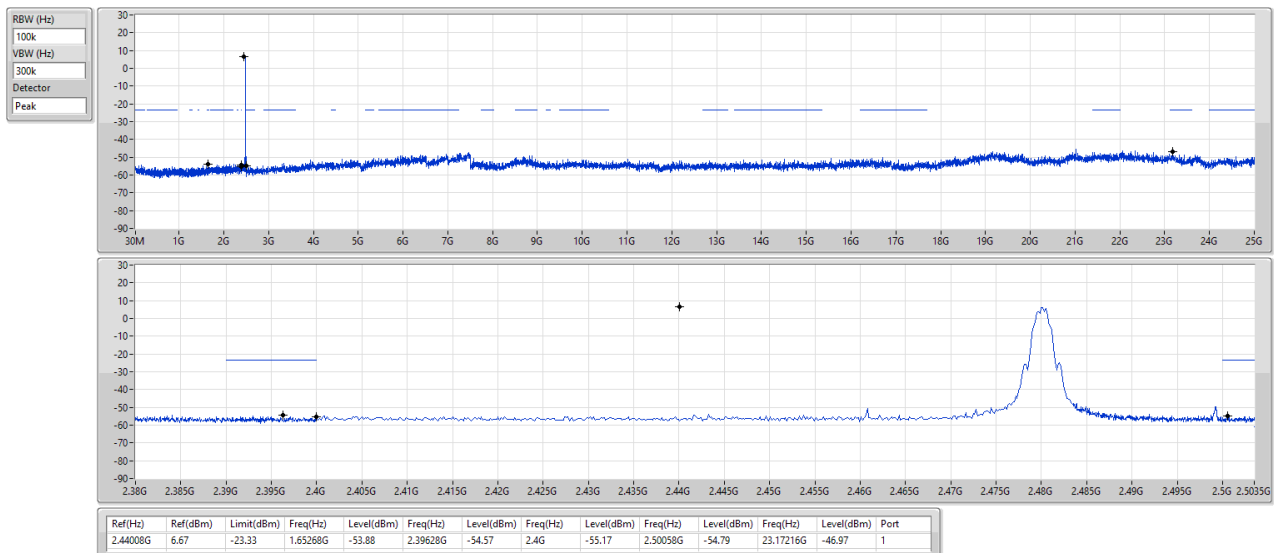


2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2480MHz

19/06/2025





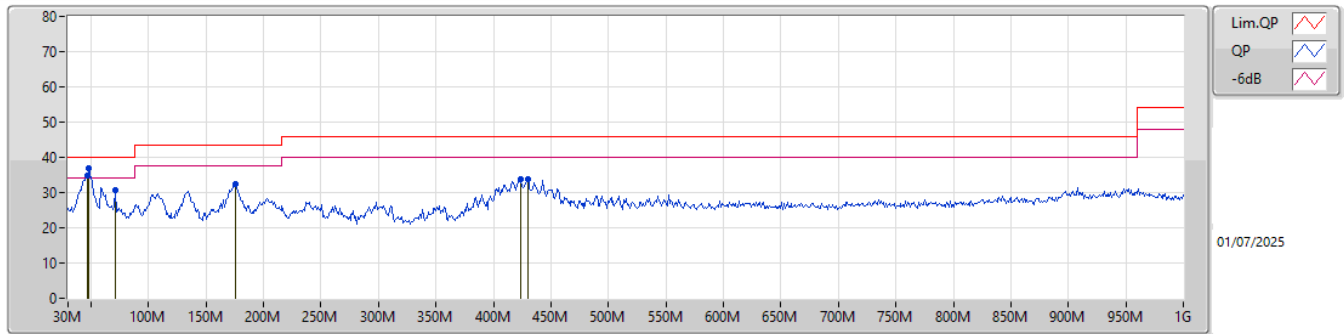
Radiated Emissions below 1GHz

Appendix F.1

Summary

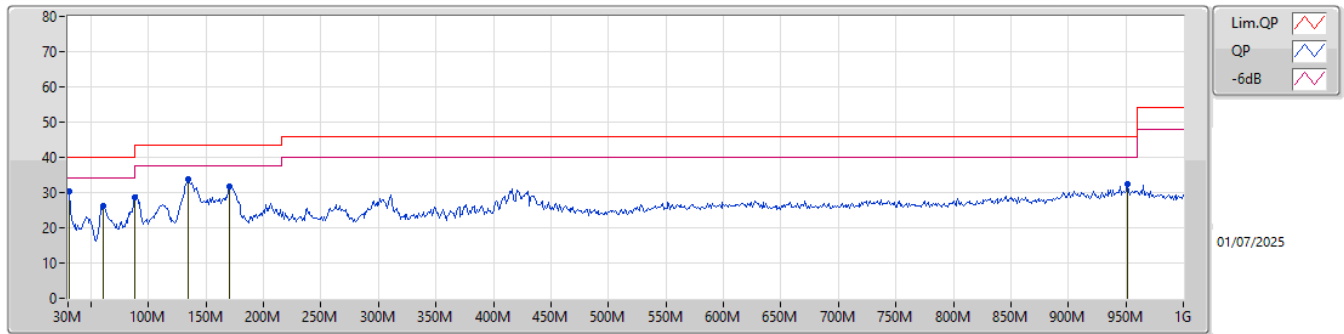
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	48.43M	36.76	40.00	-3.24	Vertical

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	46.49M	34.87	40.00	-5.13	-15.65	3	Vertical	135	1.00	-	50.52	15.24	0.49	31.38		
PK	48.43M	36.76	40.00	-3.24	-16.51	3	Vertical	322	1.50	"Worst"	53.27	14.42	0.51	31.44		
PK	70.74M	30.77	40.00	-9.23	-18.73	3	Vertical	340	1.25	-	49.50	12.23	0.69	31.65		
PK	175.5M	32.30	43.50	-11.20	-14.90	3	Vertical	97	1.00	-	47.20	15.52	1.30	31.72		
PK	423.82M	33.80	46.00	-12.20	-7.37	3	Vertical	108	1.25	-	41.17	22.34	2.20	31.91		
PK	429.64M	33.72	46.00	-12.28	-7.41	3	Vertical	102	1.25	-	41.13	22.31	2.21	31.93		

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	30.97M	30.34	40.00	-9.66	-6.74	3	Horizontal	217	2.00	"Worst"	37.08	23.62	0.33	30.69		
PK	61.04M	26.10	40.00	-13.90	-18.48	3	Horizontal	280	3.00	-	44.58	12.54	0.62	31.64		
PK	88M	28.55	43.50	-14.95	-16.34	3	Horizontal	124	2.00	-	44.89	14.51	0.82	31.67		
PK	134.76M	33.71	43.50	-9.79	-12.92	3	Horizontal	124	2.00	-	46.63	17.78	1.09	31.79		
PK	170.65M	31.65	43.50	-11.85	-14.67	3	Horizontal	262	2.00	-	46.32	15.74	1.27	31.68		
PK	951.5M	32.57	46.00	-13.43	-1.85	3	Horizontal	214	1.00	-	34.42	26.71	3.47	32.03		

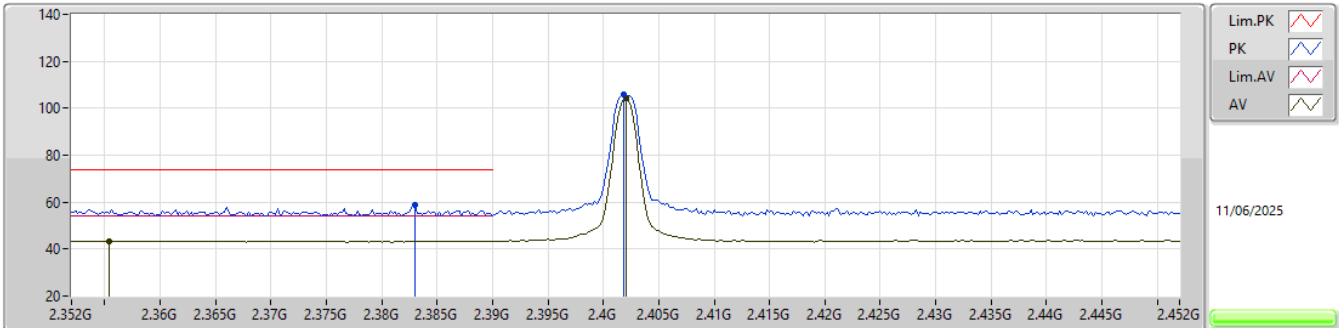


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	AV	2.4835G	49.26	54.00	-4.74	3	Vertical	274	1.80	-

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

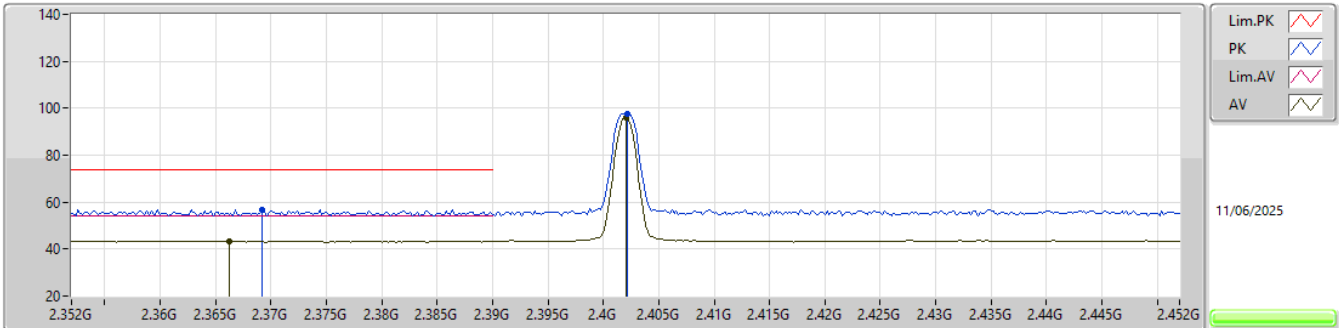


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.383G	58.86	74.00	-15.14	27.81	3	Vertical	266	1.80	-	27.33	3.72	-			
AV	2.3554G	43.52	54.00	-10.48	12.31	3	Vertical	266	1.80	-	27.50	3.71	-			
PK	2.4018G	105.64	Inf	-Inf	74.42	3	Vertical	266	1.80	-	27.50	3.72	-			
AV	2.402G	104.38	Inf	-Inf	73.16	3	Vertical	266	1.80	-	27.50	3.72	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

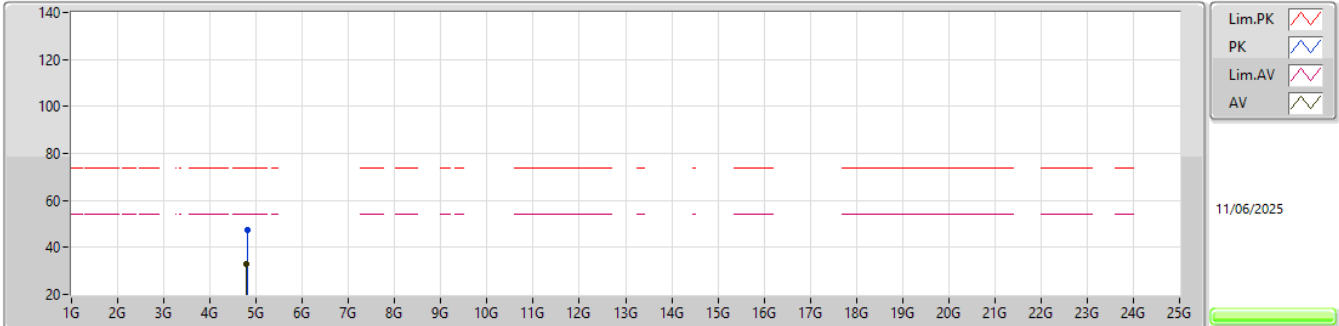


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3692G	56.91	74.00	-17.09	25.78	3	Horizontal	302	2.08	-	27.41	3.72	-			
AV	2.3662G	43.51	54.00	-10.49	12.36	3	Horizontal	302	2.08	-	27.44	3.71	-			
PK	2.4022G	97.50	Inf	-Inf	66.28	3	Horizontal	302	2.08	-	27.50	3.72	-			
AV	2.402G	96.12	Inf	-Inf	64.90	3	Horizontal	302	2.08	-	27.50	3.72	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

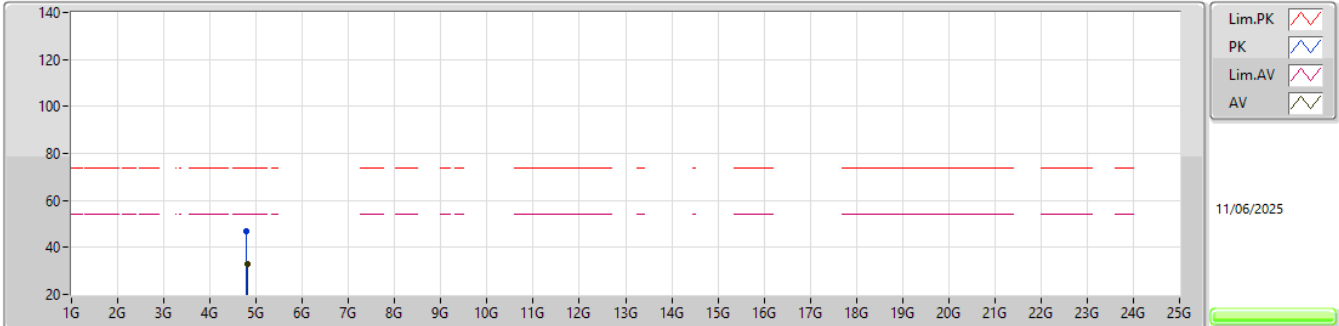


EUT_V_1TX
Setting 0a
01-U-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.80628G	47.17	74.00	-26.83	40.80	3	Vertical	241	1.80	-	32.53	6.41	32.57			
AV	4.7932G	32.95	54.00	-21.05	26.63	3	Vertical	241	1.80	-	32.50	6.39	32.57			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

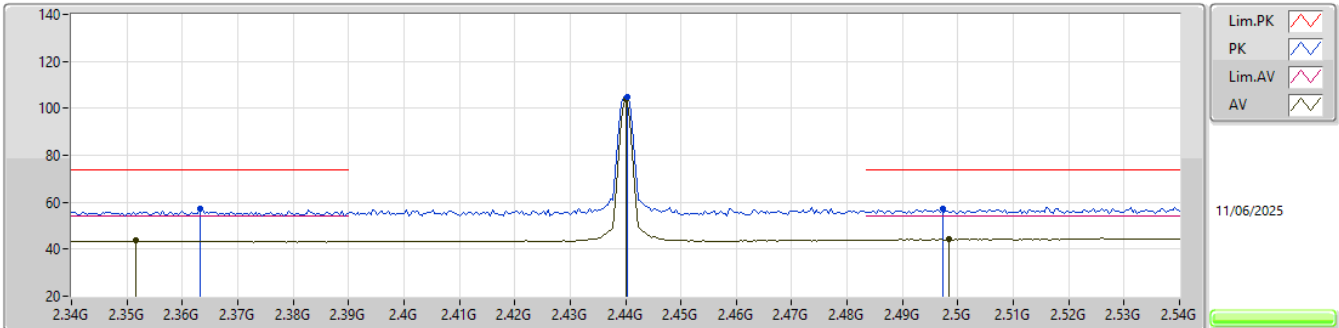


EUT_V_1TX
Setting 0a
01-U-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.7908G	46.69	74.00	-27.31	40.37	3	Horizontal	43	1.80	-	32.50	6.39	32.57			
AV	4.8187G	32.79	54.00	-21.21	26.36	3	Horizontal	43	1.80	-	32.57	6.43	32.57			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

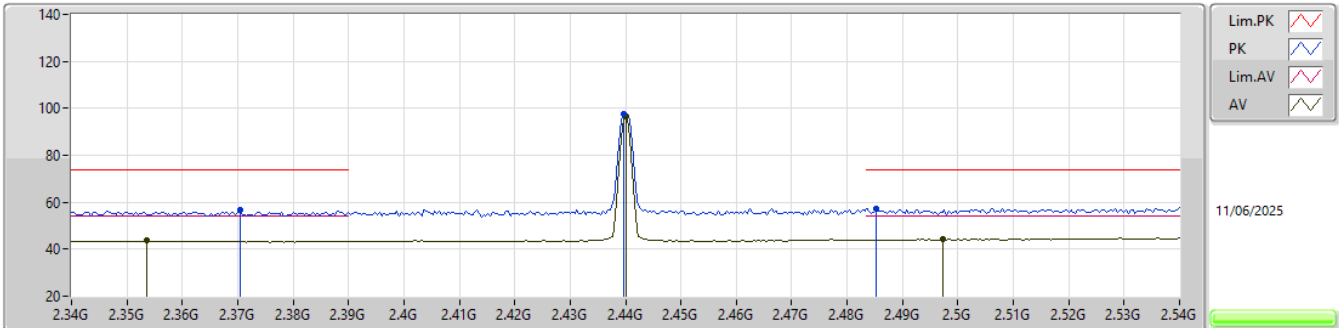


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3632G	57.03	74.00	-16.97	25.85	3	Vertical	280	1.80	-	27.47	3.71	-				
AV	2.3516G	43.64	54.00	-10.36	12.43	3	Vertical	280	1.80	-	27.50	3.71	-				
PK	2.4404G	104.88	Inf	-Inf	73.52	3	Vertical	280	1.80	-	27.60	3.76	-				
AV	2.44G	103.68	Inf	-Inf	72.32	3	Vertical	280	1.80	-	27.60	3.76	-				
PK	2.4972G	57.01	74.00	-16.99	25.21	3	Vertical	280	1.80	-	27.97	3.83	-				
AV	2.4984G	44.23	54.00	-9.77	12.42	3	Vertical	280	1.80	-	27.98	3.83	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

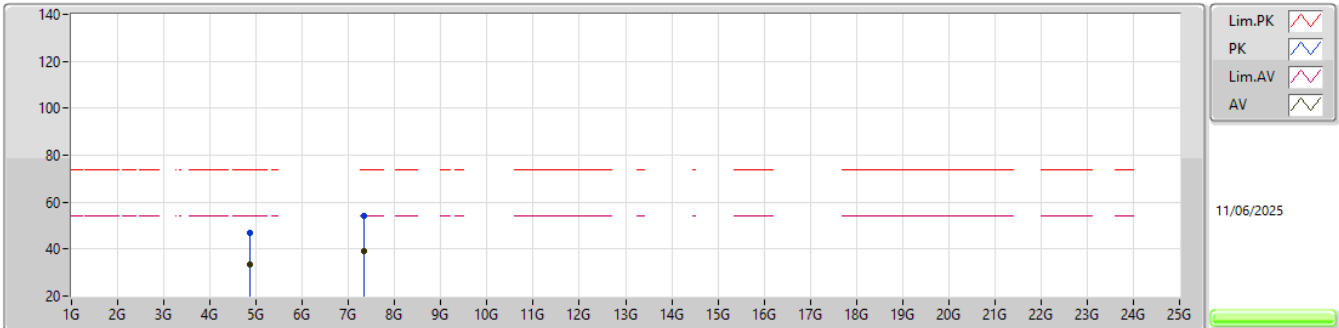


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)					
PK	2.3704G	56.59	74.00	-17.41	25.47	3	Horizontal	299	2.02	-	27.40	3.72	-					
AV	2.3536G	43.59	54.00	-10.41	12.38	3	Horizontal	299	2.02	-	27.50	3.71	-					
PK	2.4396G	97.82	Inf	-Inf	66.46	3	Horizontal	299	2.02	-	27.60	3.76	-					
AV	2.44G	96.67	Inf	-Inf	65.31	3	Horizontal	299	2.02	-	27.60	3.76	-					
PK	2.4852G	57.15	74.00	-16.85	25.49	3	Horizontal	299	2.02	-	27.85	3.81	-					
AV	2.4972G	44.23	54.00	-9.77	12.43	3	Horizontal	299	2.02	-	27.97	3.83	-					

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

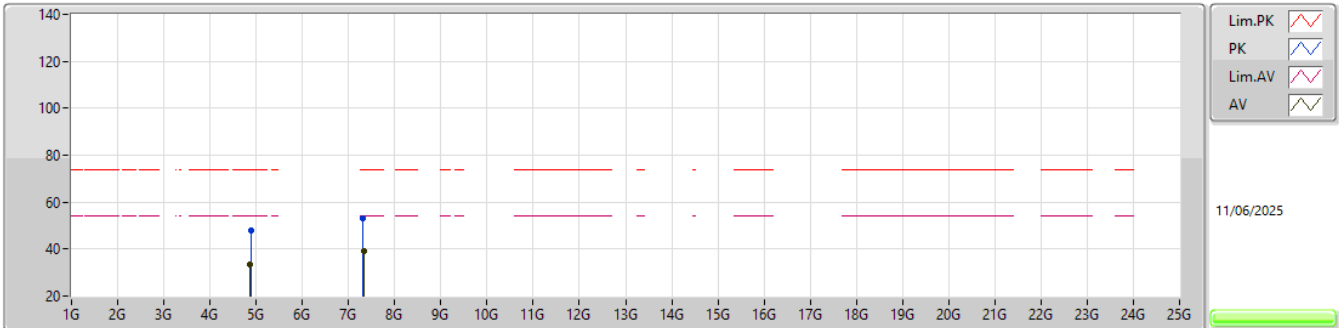


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.86728G	46.75	74.00	-27.25	40.06	3	Vertical	4	1.79	-	32.77	6.49	32.57			
AV	4.87166G	33.48	54.00	-20.52	26.76	3	Vertical	4	1.79	-	32.79	6.50	32.57			
PK	7.33242G	53.94	74.00	-20.06	41.02	3	Vertical	328	2.35	-	37.56	7.98	32.62			
AV	7.329G	39.28	54.00	-14.72	26.36	3	Vertical	328	2.35	-	37.56	7.98	32.62			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

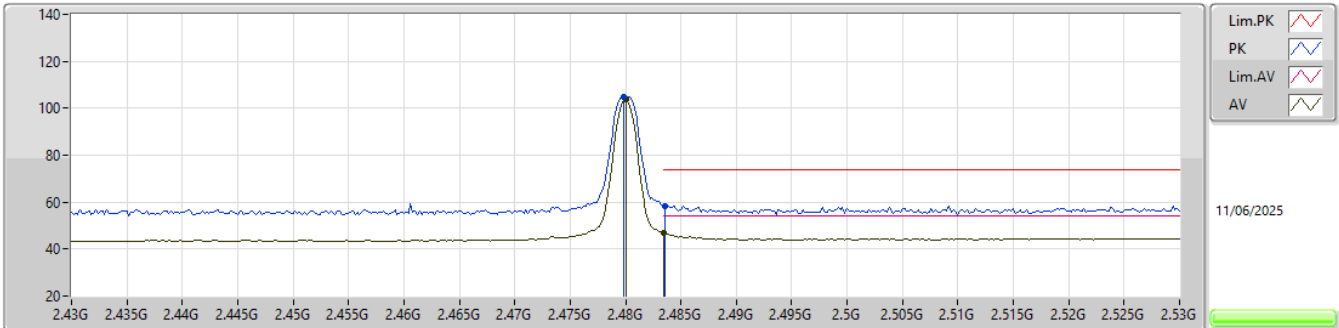


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.89194G	47.94	74.00	-26.06	41.13	3	Horizontal	236	2.97	-	32.87	6.52	32.58				
AV	4.86896G	33.48	54.00	-20.52	26.78	3	Horizontal	236	2.97	-	32.78	6.49	32.57				
PK	7.31274G	52.88	74.00	-21.12	40.01	3	Horizontal	214	1.80	-	37.53	7.97	32.63				
AV	7.3302G	39.25	54.00	-14.75	26.33	3	Horizontal	214	1.80	-	37.56	7.98	32.62				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

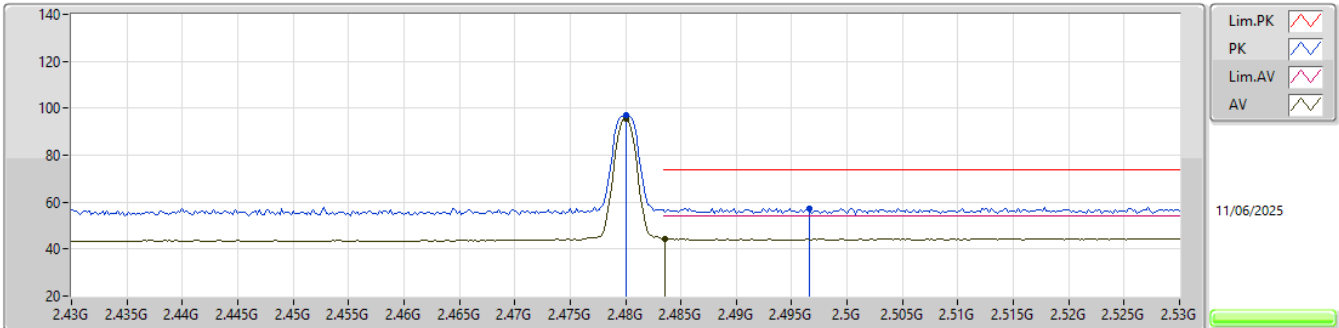


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.4798G	104.90	Inf	-Inf	73.29	3	Vertical	258	1.80	-	27.80	3.81	-				
AV	2.48G	103.59	Inf	-Inf	71.98	3	Vertical	258	1.80	-	27.80	3.81	-				
PK	2.4836G	58.45	74.00	-15.55	26.80	3	Vertical	258	1.80	-	27.84	3.81	-				
AV	2.4835G	46.65	54.00	-7.35	15.00	3	Vertical	258	1.80	-	27.84	3.81	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

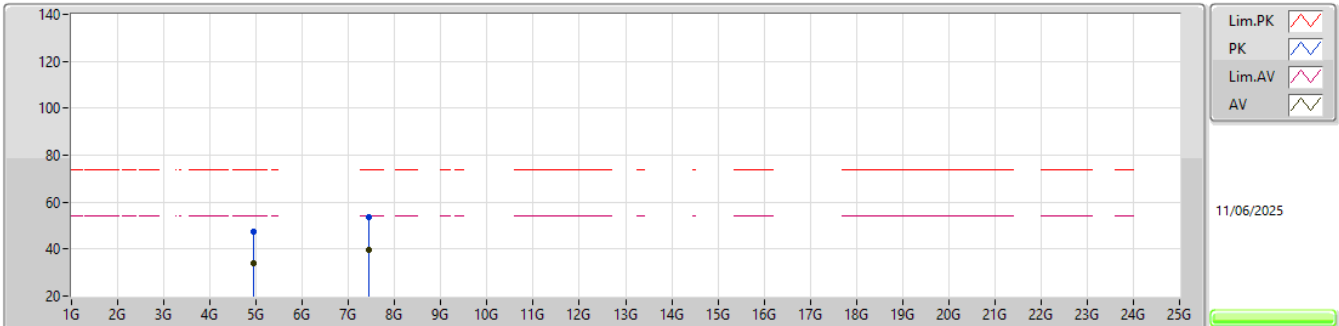


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)					
PK	2.48G	96.89	Inf	-Inf	65.28	3	Horizontal	302	1.37	-	27.80	3.81	-					
AV	2.48G	95.61	Inf	-Inf	64.00	3	Horizontal	302	1.37	-	27.80	3.81	-					
PK	2.4966G	57.42	74.00	-16.58	25.62	3	Horizontal	302	1.37	-	27.97	3.83	-					
AV	2.4836G	44.52	54.00	-9.48	12.87	3	Horizontal	302	1.37	-	27.84	3.81	-					

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

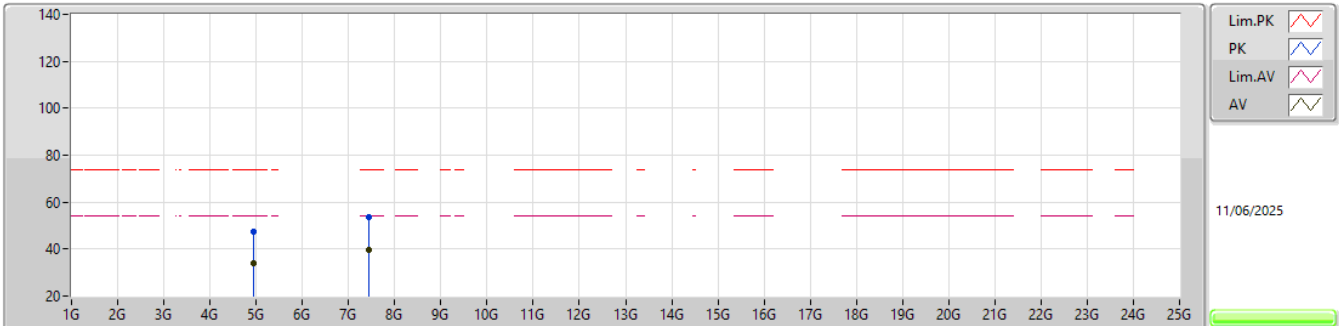


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.9477G	47.28	74.00	-26.72	40.26	3	Vertical	244	1.80	-	33.00	6.60	32.58				
AV	4.95334G	33.72	54.00	-20.28	26.70	3	Vertical	244	1.80	-	32.99	6.61	32.58				
PK	7.43742G	53.38	74.00	-20.62	40.38	3	Vertical	176	1.76	-	37.53	8.05	32.58				
AV	7.4421G	39.53	54.00	-14.47	26.53	3	Vertical	176	1.76	-	37.52	8.06	32.58				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

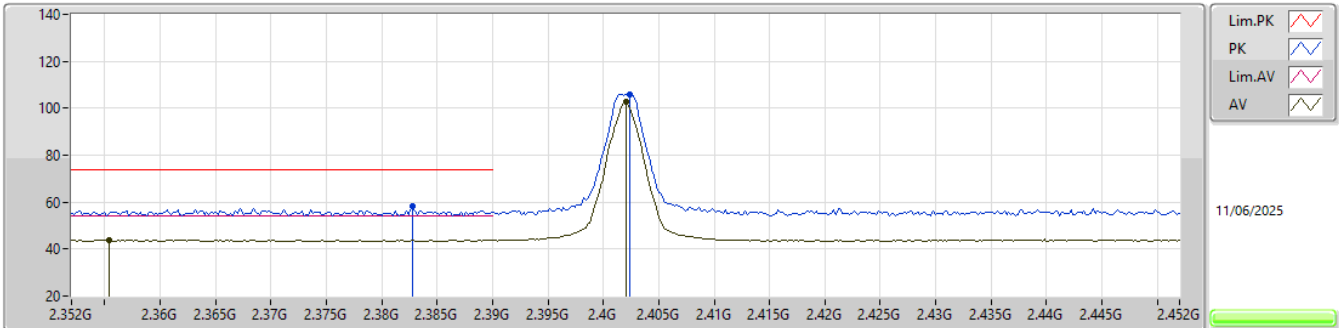


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.94554G	47.27	74.00	-26.73	40.26	3	Horizontal	8	2.65	-	32.99	6.60	32.58			
AV	4.94638G	33.71	54.00	-20.29	26.70	3	Horizontal	8	2.65	-	32.99	6.60	32.58			
PK	7.44132G	53.37	74.00	-20.63	40.37	3	Horizontal	108	2.93	-	37.52	8.06	32.58			
AV	7.4397G	39.56	54.00	-14.44	26.56	3	Horizontal	108	2.93	-	37.52	8.06	32.58			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

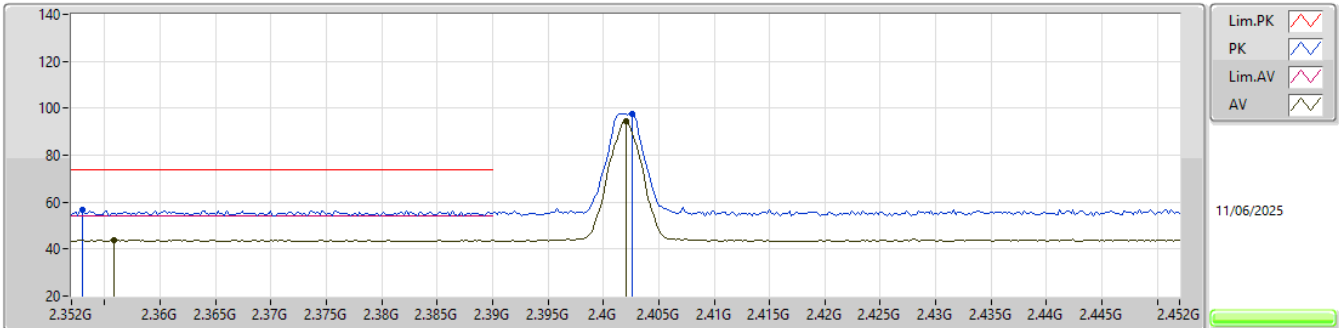


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.3828G	58.45	74.00	-15.55	27.40	3	Vertical	268	1.80	-	27.33	3.72	-				
AV	2.3554G	43.93	54.00	-10.07	12.72	3	Vertical	268	1.80	-	27.50	3.71	-				
PK	2.4024G	105.70	Inf	-Inf	74.48	3	Vertical	268	1.80	-	27.50	3.72	-				
AV	2.402G	102.73	Inf	-Inf	71.51	3	Vertical	268	1.80	-	27.50	3.72	-				

2.4-2.4835GHz_BT-LE(2Mbps)

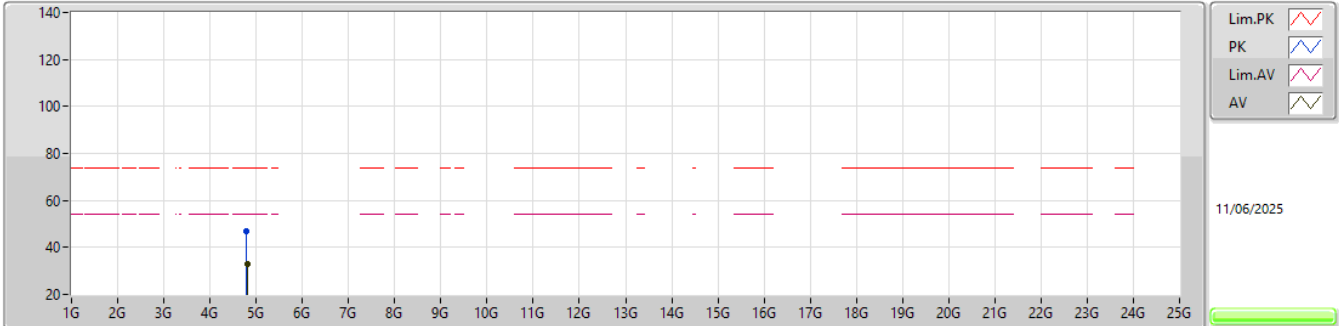
2402MHz_TX


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.353G	56.71	74.00	-17.29	25.50	3	Horizontal	300	2.07	-	27.50	3.71	-				
AV	2.3558G	43.82	54.00	-10.18	12.61	3	Horizontal	300	2.07	-	27.50	3.71	-				
PK	2.4026G	97.81	Inf	-Inf	66.59	3	Horizontal	300	2.07	-	27.50	3.72	-				
AV	2.402G	94.73	Inf	-Inf	63.51	3	Horizontal	300	2.07	-	27.50	3.72	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

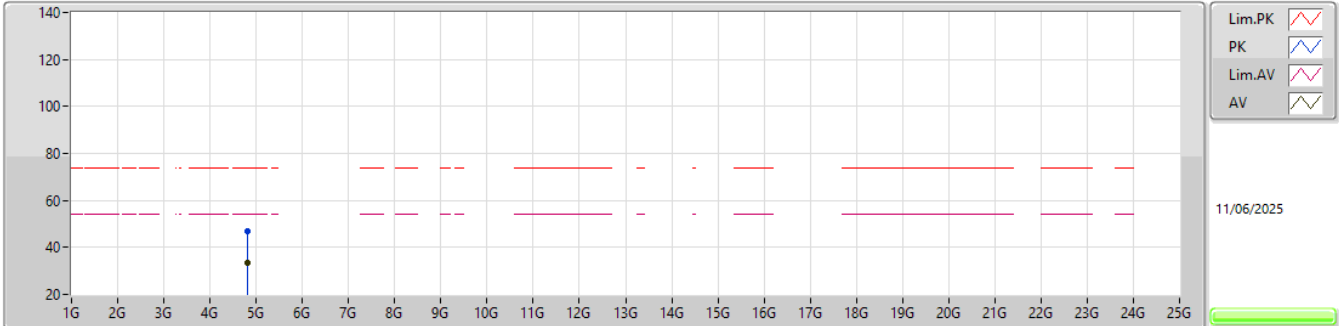


EUT_V_1TX
Setting 0a
01-U-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.79194G	46.91	74.00	-27.09	40.59	3	Vertical	295	1.79	-	32.50	6.39	32.57			
AV	4.81744G	33.07	54.00	-20.93	26.65	3	Vertical	295	1.79	-	32.57	6.42	32.57			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

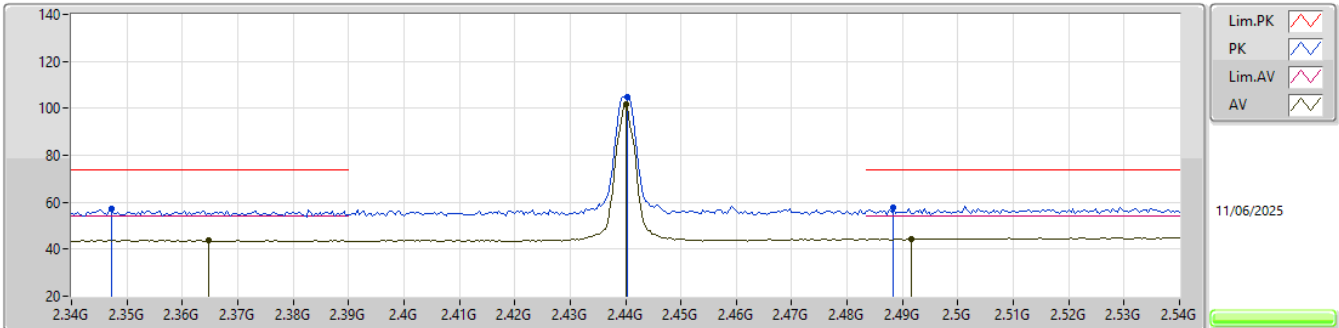


EUT_V_1TX
Setting 0a
01-U-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.8142G	46.75	74.00	-27.25	40.34	3	Horizontal	130	1.51	-	32.56	6.42	32.57			
AV	4.81702G	33.30	54.00	-20.70	26.88	3	Horizontal	130	1.51	-	32.57	6.42	32.57			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

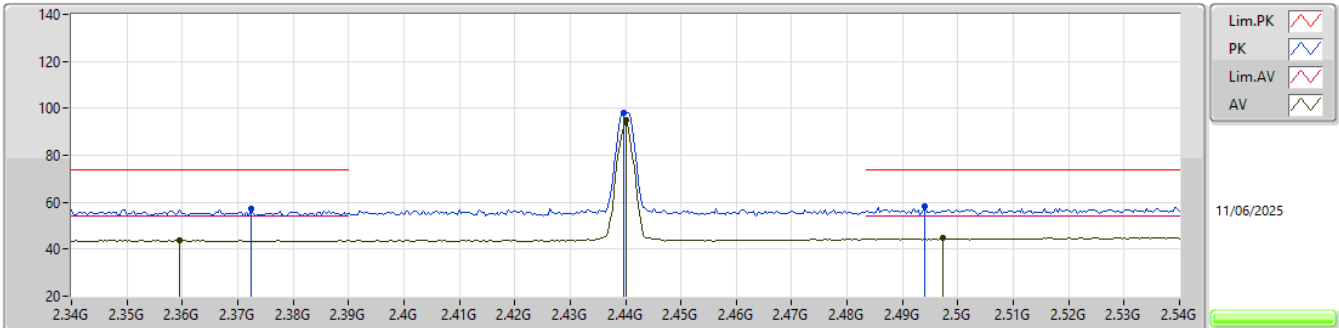


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.3472G	57.14	74.00	-16.86	25.96	3	Vertical	282	1.80	-	27.47	3.71	-				
AV	2.3648G	43.80	54.00	-10.20	12.64	3	Vertical	282	1.80	-	27.45	3.71	-				
PK	2.4404G	104.87	Inf	-Inf	73.51	3	Vertical	282	1.80	-	27.60	3.76	-				
AV	2.44G	101.88	Inf	-Inf	70.52	3	Vertical	282	1.80	-	27.60	3.76	-				
PK	2.4884G	57.80	74.00	-16.20	26.10	3	Vertical	282	1.80	-	27.88	3.82	-				
AV	2.4916G	44.45	54.00	-9.55	12.71	3	Vertical	282	1.80	-	27.92	3.82	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

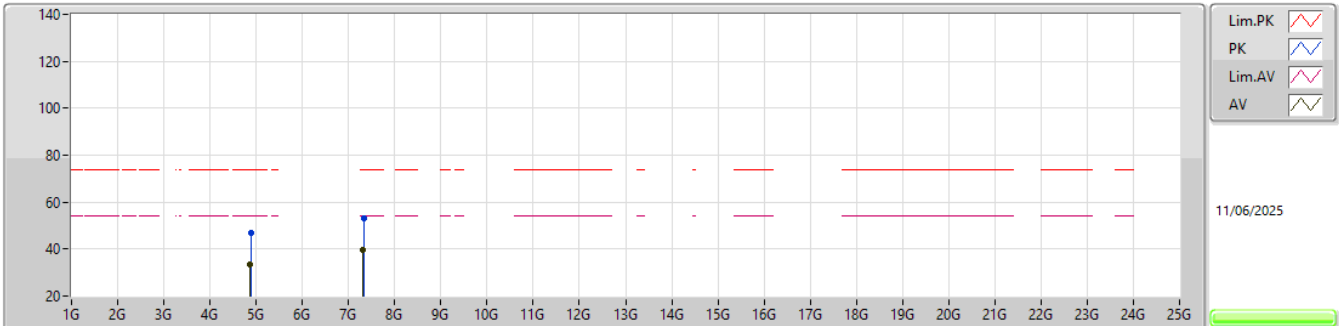


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3724G	57.20	74.00	-16.80	26.10	3	Horizontal	299	1.24	-	27.38	3.72	-			
AV	2.3596G	43.88	54.00	-10.12	12.67	3	Horizontal	299	1.24	-	27.50	3.71	-			
PK	2.4396G	98.03	Inf	-Inf	66.67	3	Horizontal	299	1.24	-	27.60	3.76	-			
AV	2.44G	95.18	Inf	-Inf	63.82	3	Horizontal	299	1.24	-	27.60	3.76	-			
PK	2.494G	58.26	74.00	-15.74	26.50	3	Horizontal	299	1.24	-	27.94	3.82	-			
AV	2.4972G	44.59	54.00	-9.41	12.79	3	Horizontal	299	1.24	-	27.97	3.83	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

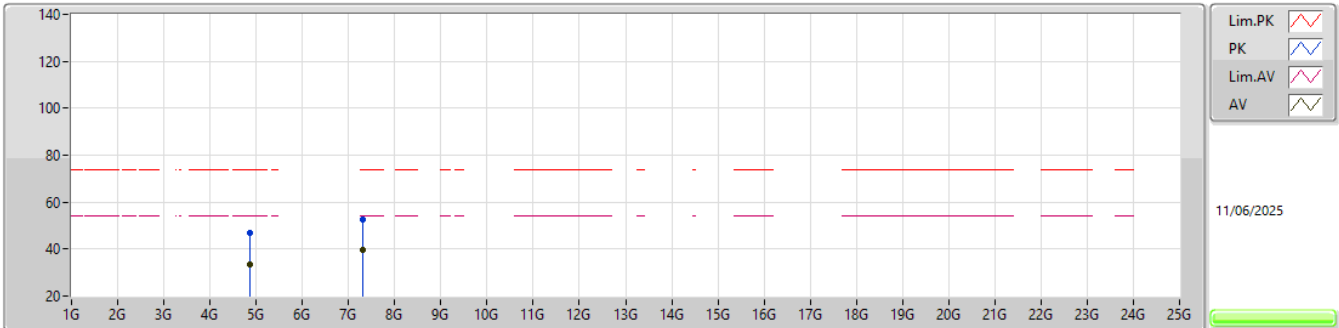


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.89098G	46.74	74.00	-27.26	39.94	3	Vertical	285	1.43	-	32.86	6.52	32.58				
AV	4.87154G	33.66	54.00	-20.34	26.94	3	Vertical	285	1.43	-	32.79	6.50	32.57				
PK	7.323G	53.28	74.00	-20.72	40.38	3	Vertical	307	2.99	-	37.55	7.98	32.63				
AV	7.30536G	39.60	54.00	-14.40	26.75	3	Vertical	307	2.99	-	37.51	7.97	32.63				

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

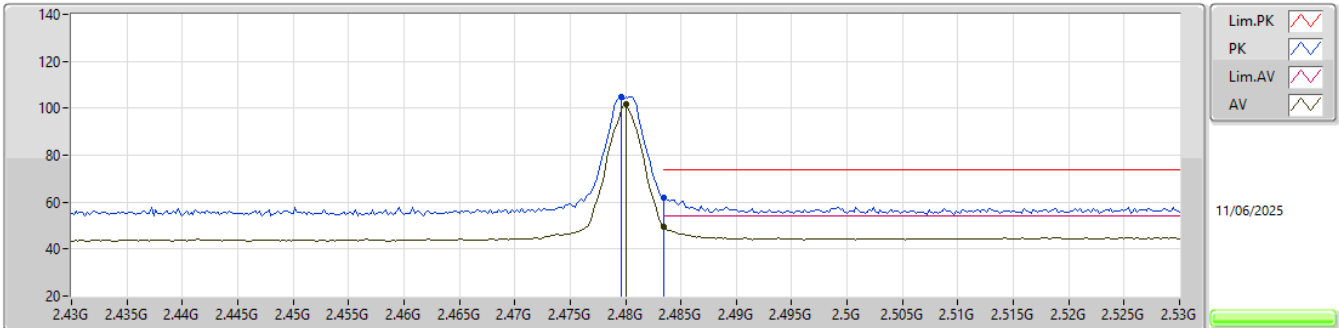


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87364G	47.06	74.00	-26.94	40.34	3	Horizontal	296	1.80	-	32.79	6.50	32.57			
AV	4.86578G	33.51	54.00	-20.49	26.83	3	Horizontal	296	1.80	-	32.76	6.49	32.57			
PK	7.32036G	52.56	74.00	-21.44	39.67	3	Horizontal	168	1.76	-	37.54	7.98	32.63			
AV	7.3173G	39.58	54.00	-14.42	26.70	3	Horizontal	168	1.76	-	37.53	7.98	32.63			

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

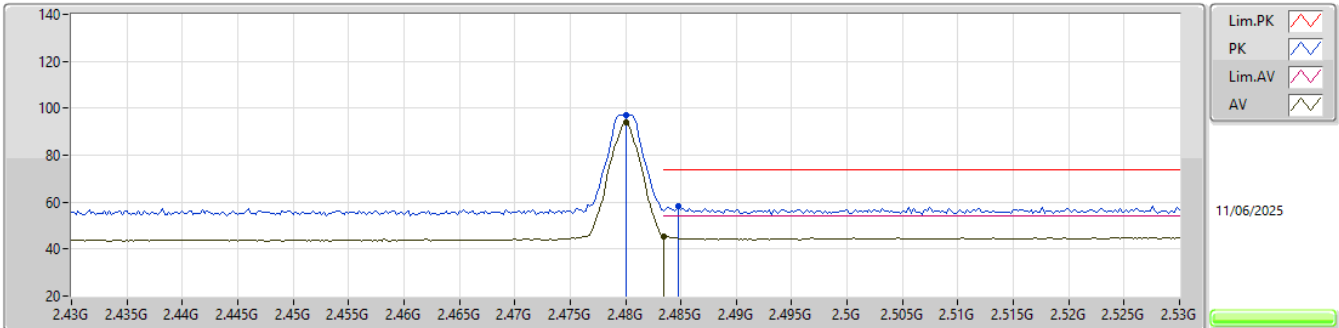


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.4796G	104.59	Inf	-Inf	72.98	3	Vertical	274	1.80	-	27.80	3.81	-				
AV	2.48G	101.70	Inf	-Inf	70.09	3	Vertical	274	1.80	-	27.80	3.81	-				
PK	2.4835G	61.91	74.00	-12.09	30.26	3	Vertical	274	1.80	-	27.84	3.81	-				
AV	2.4835G	49.26	54.00	-4.74	17.61	3	Vertical	274	1.80	-	27.84	3.81	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

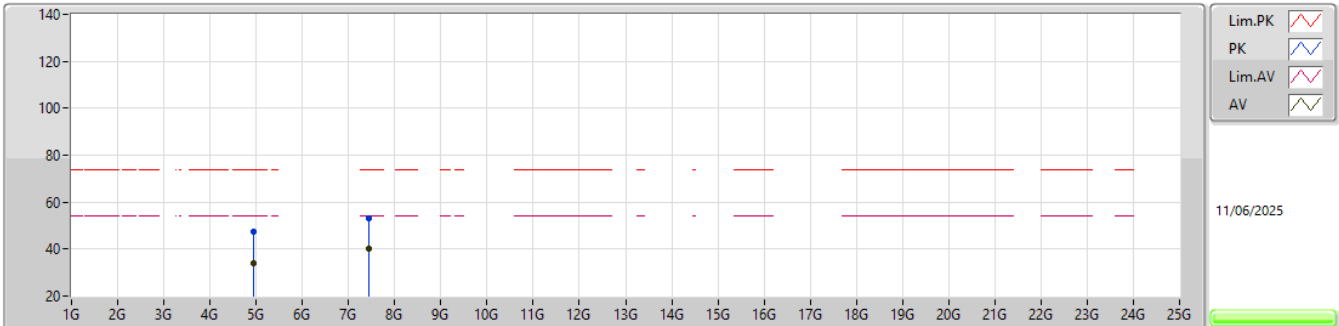


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)					
PK	2.48G	97.07	Inf	-Inf	65.46	3	Horizontal	306	1.54	-	27.80	3.81	-					
AV	2.48G	94.16	Inf	-Inf	62.55	3	Horizontal	306	1.54	-	27.80	3.81	-					
PK	2.4848G	58.23	74.00	-15.77	26.57	3	Horizontal	306	1.54	-	27.85	3.81	-					
AV	2.4835G	45.48	54.00	-8.52	13.83	3	Horizontal	306	1.54	-	27.84	3.81	-					

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

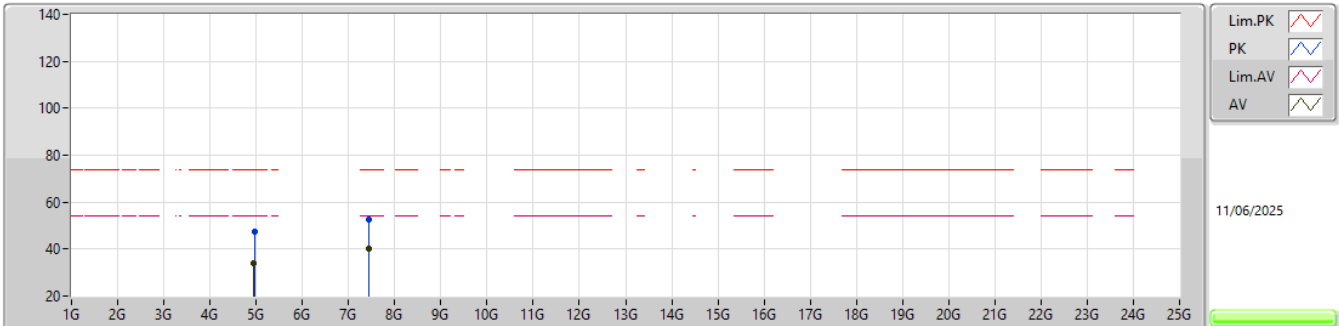


EUT_Y_1TX
Setting 0a
01-U-G-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.95322G	47.57	74.00	-26.43	40.55	3	Vertical	51	1.21	-	32.99	6.61	32.58				
AV	4.95196G	34.04	54.00	-19.96	27.01	3	Vertical	51	1.21	-	33.00	6.61	32.58				
PK	7.42956G	53.03	74.00	-20.97	40.04	3	Vertical	183	1.59	-	37.54	8.04	32.59				
AV	7.44186G	40.00	54.00	-14.00	27.00	3	Vertical	183	1.59	-	37.52	8.06	32.58				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



EUT_Y_1TX
Setting 0a
01-U-G-4

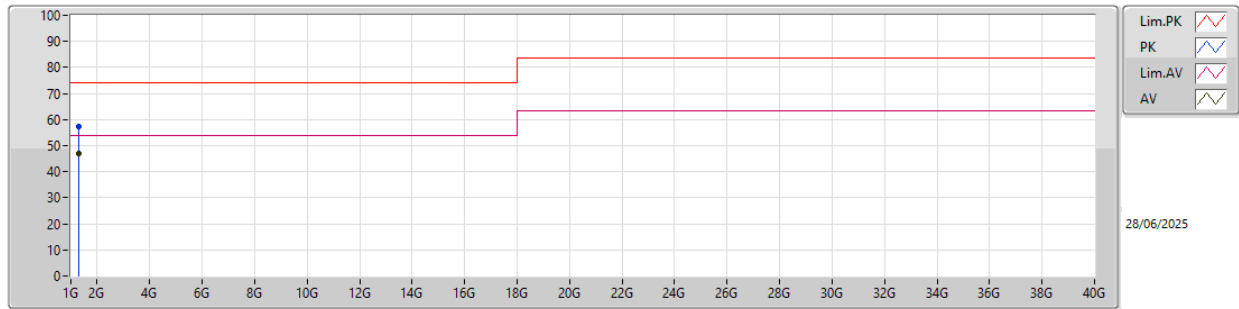
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.96996G	47.61	74.00	-26.39	40.60	3	Horizontal	297	1.02	-	32.96	6.63	32.58			
AV	4.94878G	33.95	54.00	-20.05	26.93	3	Horizontal	297	1.02	-	33.00	6.60	32.58			
PK	7.44714G	52.83	74.00	-21.17	39.83	3	Horizontal	296	1.80	-	37.51	8.07	32.58			
AV	7.43652G	39.93	54.00	-14.07	26.93	3	Horizontal	296	1.80	-	37.53	8.05	32.58			



Summary

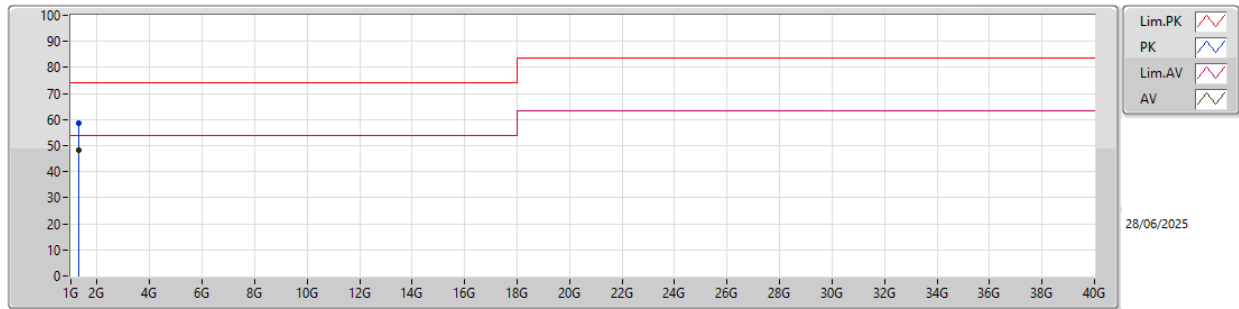
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.28052G	48.09	54.00	-5.91	Horizontal

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	1.28061G	57.32	74.00	-16.68	-6.75	3	Vertical	163	1.01	-	64.07	25.59	4.47	36.81		
AV	1.28058G	46.78	54.00	-7.22	-6.75	3	Vertical	163	1.01	"Worst"	53.53	25.59	4.47	36.81		

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	1.28052G	58.55	74.00	-15.45	-6.75	3	Horizontal	320	1.50	-	65.30	25.59	4.47	36.81		
AV	1.28052G	48.09	54.00	-5.91	-6.75	3	Horizontal	320	1.50	"Worst"	54.84	25.59	4.47	36.81		