



RADIO TEST REPORT

FCC ID : TLZ-XM666

Equipment : IEEE 802.11 a/b/g/n/ac/ax Wireless LAN 1T1R and BLE/802.15.4 Solution Family 12 x 12 LGA Module

Brand Name : AzureWave

Model Name : AW-XM646G-SUR,AW-XM646G-USB,AW-XM646F-SUR,AW-XM646F-USB,AW-XM646C-SUR,AW-XM646C-USB,AW-XM646B-SUR,AW-XM646B-USB

Applicant : AzureWave Technologies, Inc.
8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231

Manufacturer : AzureWave Technologies, Inc.
8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231

Standard : 47 CFR FCC Part 15.247

The product was received on May 06, 2025, and testing was started from May 13, 2025 and completed on Jun. 03, 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 C63.10-2013 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: Sam Chen

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 28
Issued Date : Jun. 13, 2025
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: Vicky Huang



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	1
2.4G	BT-LE(500Kb/s)	1	1
2.4G	BT-LE(125Kb/s)	1	1
2.4G	BT-LE(2Mbps)	2	1

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)	
						WLAN 2.4GHz, Bluetooth and Thread	WLAN 5GHz
1	1	ARISTOTLE	RFA-27-JP326MHF4C198	PIFA Antenna	I-PEX	3.5	5

Note 1: The above information was declared by manufacturer.

Note 2: **For 2.4GHz function:**

For IEEE 802.11 b/g/n/VHT/ax (1TX/1RX):

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

For 5GHz function:

For IEEE 802.11a/n/ac/ax (1TX/1RX):

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

For Bluetooth/Thread function (1TX/1RX):

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

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
BT-LE(1Mbps)	0.622	2.06	389.063u	3k
BT-LE(2Mbps)	0.329	4.83	205.938u	5k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From host system		
Function	☒ Point-to-multipoint	☐ Point-to-point	
Test Software Version	DutApiMimoApApp_LABTOOL_UNIFIED.exe v2.0.0.22		
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 difference for each model is shown as below:

EUT	Model Name	WLAN 2.4G	WLAN 5G	Bluetooth	802.15.4	Interface
1	AW-XM646G-SUR	V	V	V	V	SUR
2	AW-XM646G-USB	V	V	V	V	USB
-	AW-XM646F-SUR	V	V	V	X	SUR
-	AW-XM646F-USB	V	V	V	X	USB
-	AW-XM646C-SUR	V	X	V	V	SUR
-	AW-XM646C-USB	V	X	V	V	USB
-	AW-XM646B-SUR	V	X	V	X	SUR
-	AW-XM646B-USB	V	X	V	X	USB
Description						
In addition to the differences mentioned above, there are differences in marketing strategy.						

Note 1: From the above EUT, EUT 1 and 2 were selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.



1.2 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 C63.10-2013

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	Jay Lo	21.2~22.6 / 58~61	May 15, 2025~ May 27, 2025
Radiated below 1GHz	03CH06-CB	Eason Chen	21.9~23.1 / 60~62	May 13, 2025~ May 20, 2025
Radiated above 1GHz and Radiated Co-Location	03CH03-CB	Eason Chen	21.6~23.1 / 58~62	May 13, 2025~ May 20, 2025
AC Conduction	CO02-CB	Tim Chen	22~23 / 22~23	May 21, 2025~ Jun. 03, 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 Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
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%



2 Test Configuration of EUT

2.1 Test Channel Mode

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

Note:

- ◆ 1Mbps, 500Kb/s, and 125Kb/s modes were the same bandwidth. The 1Mbps mode generated the worst case; thus it was selected to test.

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
	The EUT was performed at EUT 1 and EUT 2, and the worst case was found as EUT 1. Thus, the measurement will follow this same test configuration.
1	EUT 1 + Bluetooth

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 EUT was performed at EUT 1 and EUT 2 for Radiated emission above 1GHz test, and the worst case was found as EUT 1. Thus, the measurement will follow this same test configuration.	
1	EUT 1

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
	1. The EUT was performed at X axis, Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found as X axis. Thus, the measurement will follow this same test configuration. 2. The EUT was performed at EUT 1 and EUT 2, and the worst case was found as EUT 1. Thus, the measurement will follow this same test configuration.
1	EUT 1 in X axis + Bluetooth
Operating Mode > 1GHz	CTX
	1. The EUT was performed at X axis, Y axis and Z axis position the worst case was found as below. Thus, the measurement will follow this same test configuration. 2. The EUT 1 and EUT 2 performed the testing, and the worst case was found in EUT 1. Thus, the measurement will follow this same test configuration
1	EUT 1 in X axis for Harmonic EUT 1 in Y axis for Bandedge



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
	The EUT was performed at EUT 1 and EUT 2 for Radiated emission above 1GHz test, and the worst case was found as EUT 1. Thus, the measurement will follow this same test configuration.
1	EUT 1 + Bluetooth + WLAN 2.4GHz
2	EUT 1 + Bluetooth + WLAN 5GHz
For operating mode 2 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	Bluetooth + WLAN 2.4GHz
2	Bluetooth + WLAN 5GHz
Refer to Sporton Test Report No.: FA521124-01 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For Normal Link:

During the test, the EUT operation to normal function.

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

N/A



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	EUT Fixture	Azurewave	2460-i4	N/A
B	WLAN/Bluetooth Fixture	AzureWave	2460-i6	N/A
C	NB	DELL	E6430	N/A
D	Earphone	e-Power	GT02	N/A
E	Mouse	acer	MOBVUO	N/A

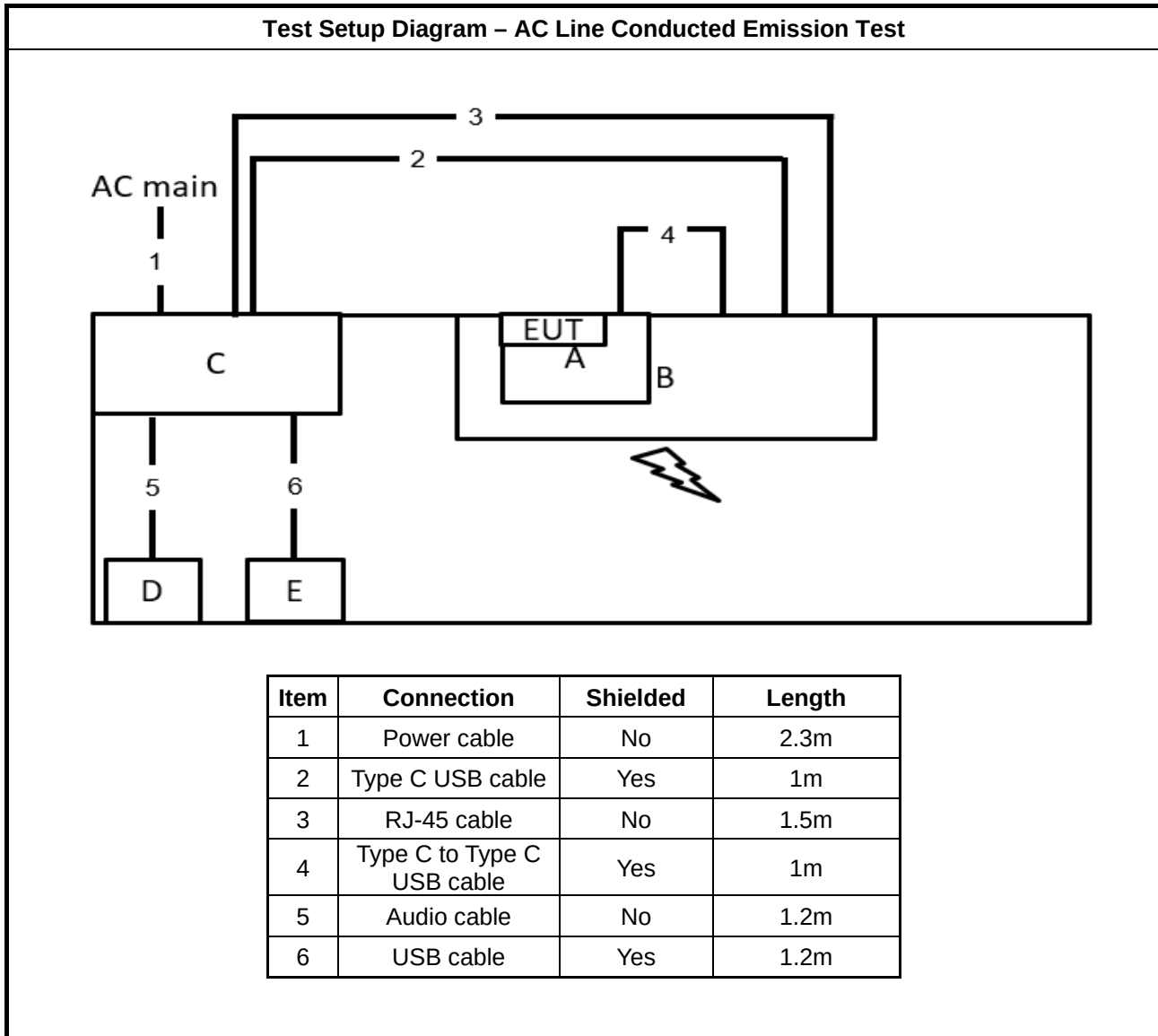
For Radiated:

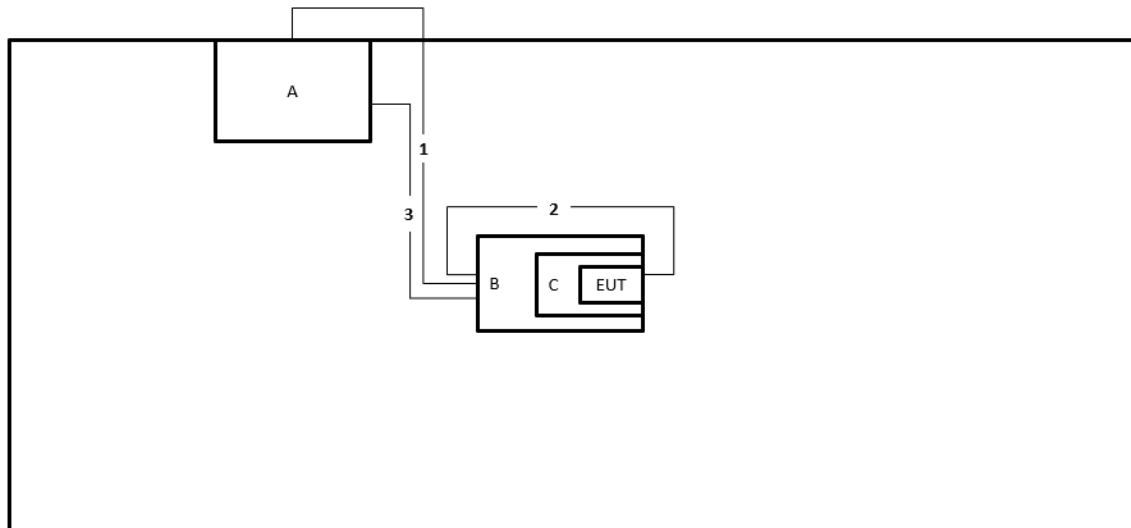
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	WLAN/Bluetooth Fixture	AzureWave	2460-i6	N/A
C	EUT Fixture	Azurewave	2460-i4	N/A

For RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	WLAN/Bluetooth Fixture	AzureWave	2460-i6	N/A
D	EUT Fixture	Azurewave	2460-i4	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length
1	RJ-45 cable	No	1m
2	Type C USB cable	Yes	1m
3	Type C USB cable	Yes	1m



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.

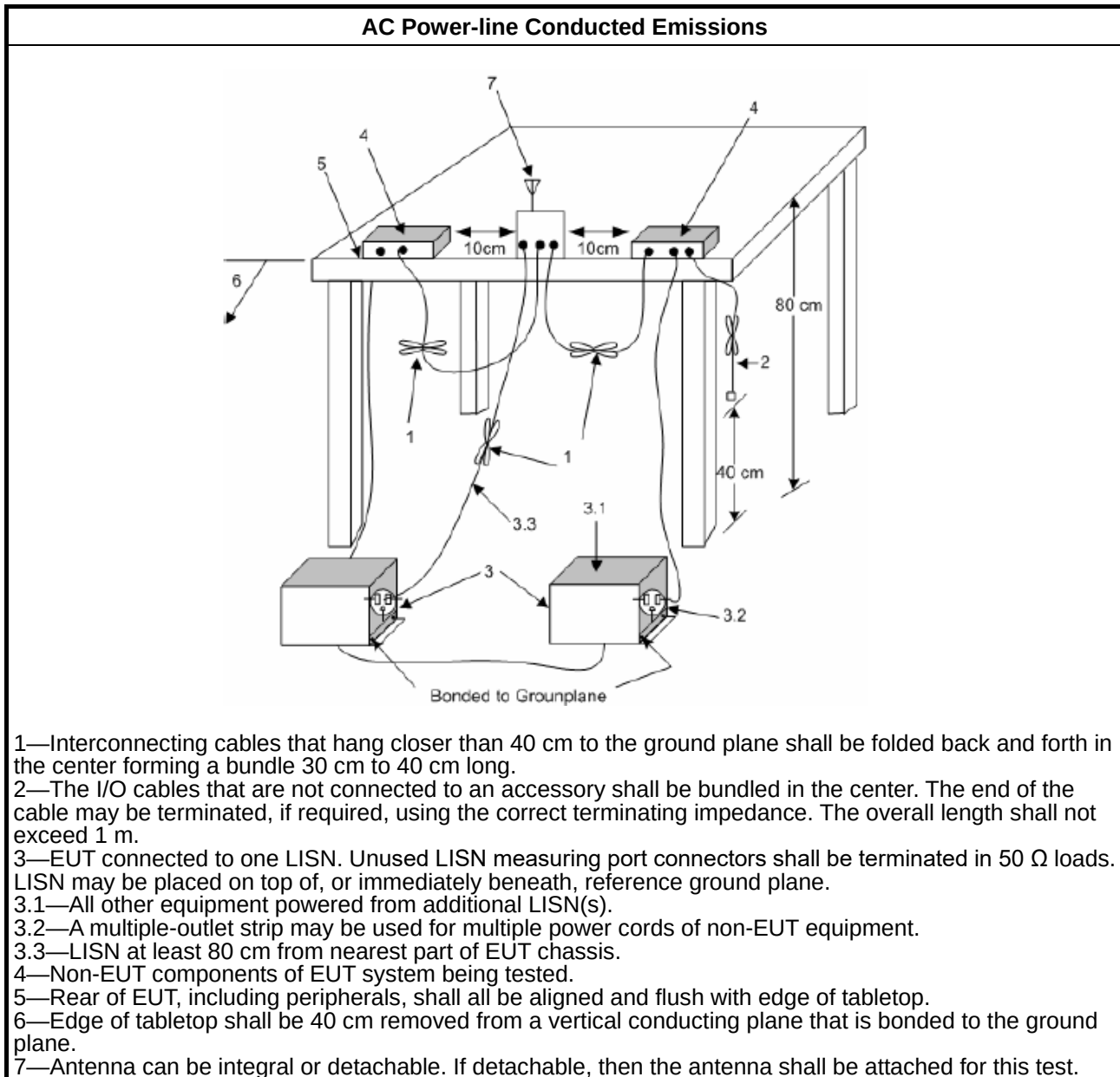
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, 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.

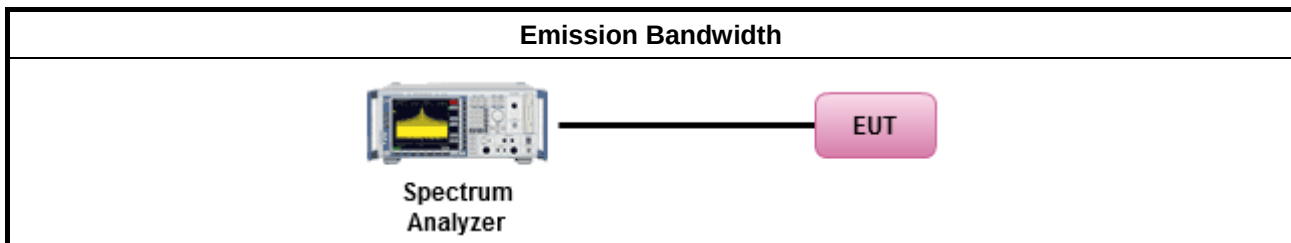
3.2.2 Measuring Instruments

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.	

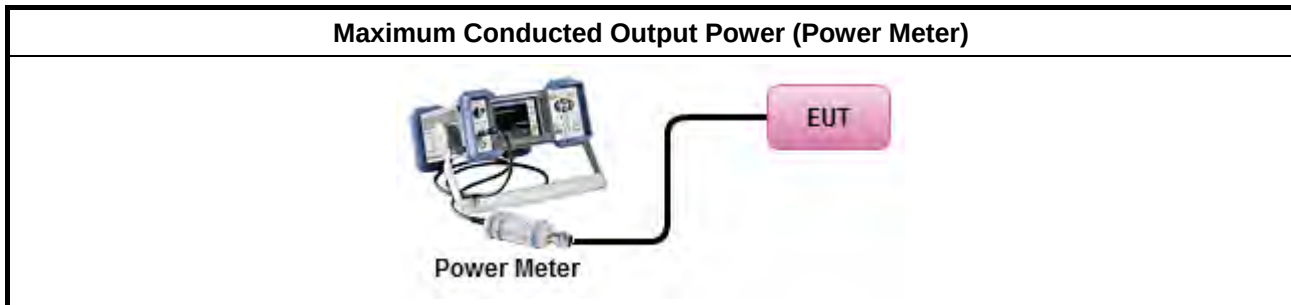
3.3.2 Measuring Instruments

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

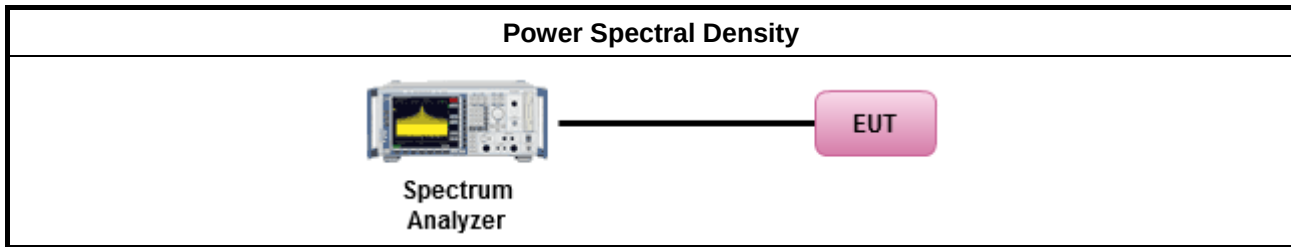
3.4.2 Measuring Instruments

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.	

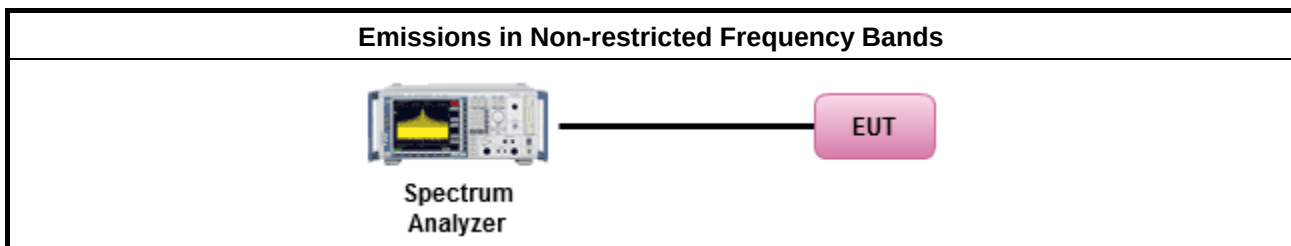
3.5.2 Measuring Instruments

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

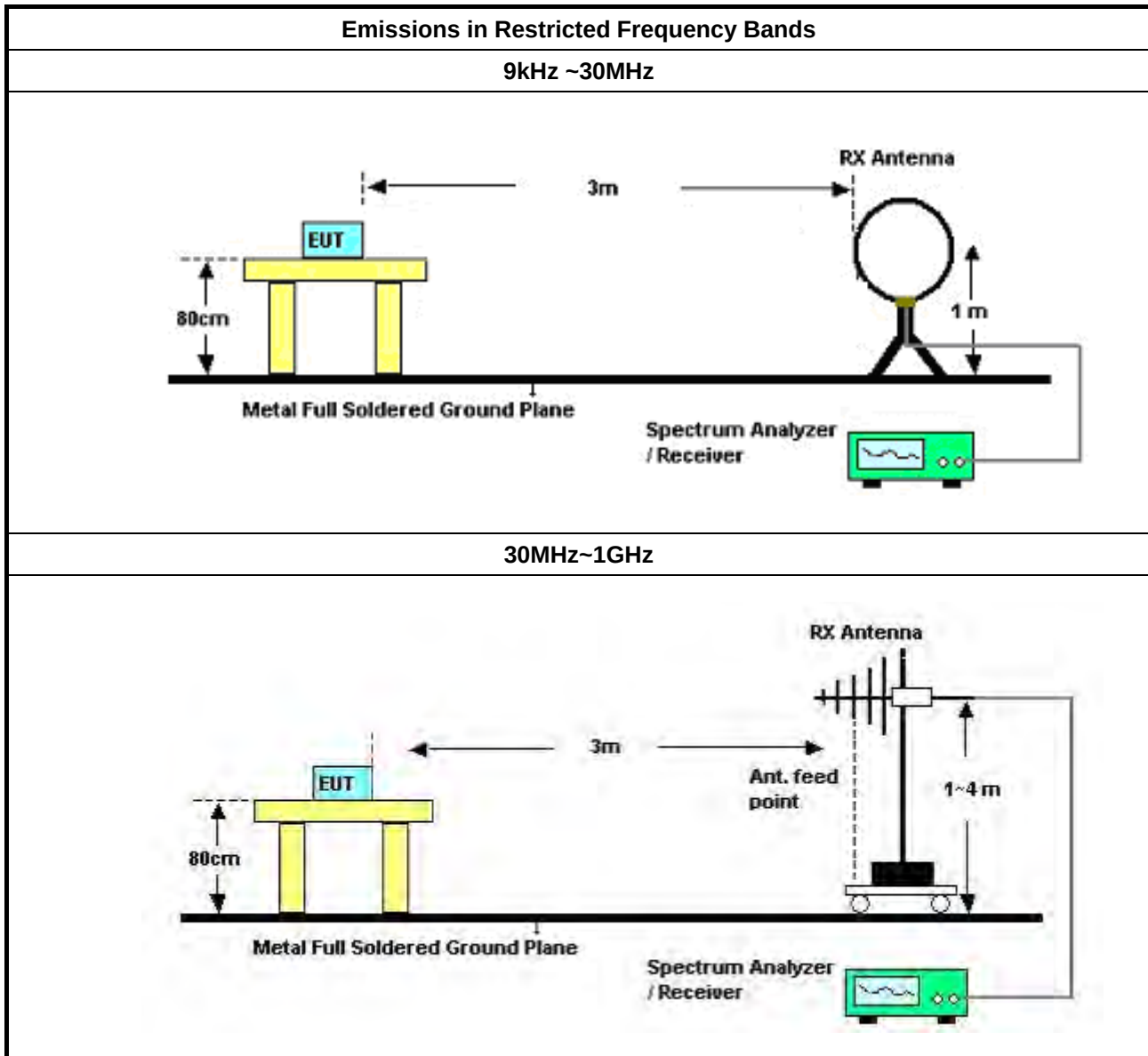
Refer a test equipment and calibration data table in this test report.

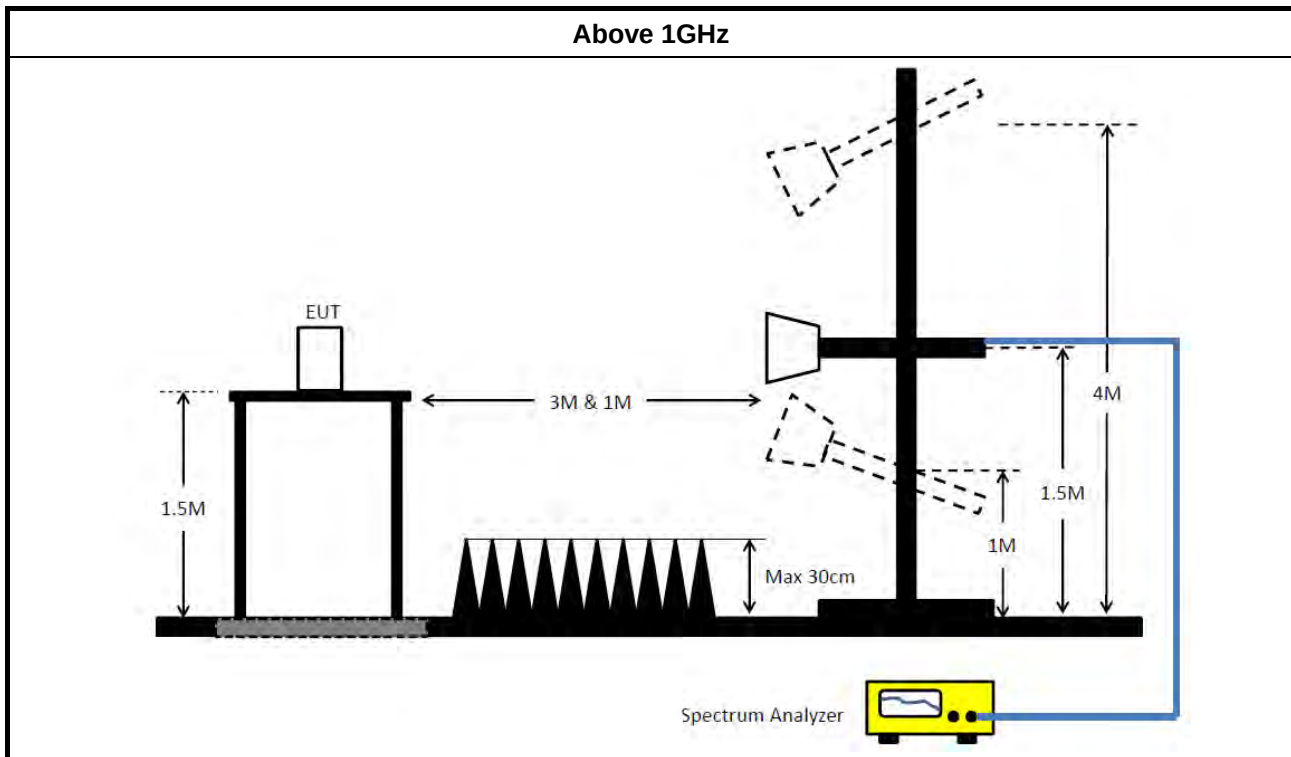


3.6.3 Test Procedures

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
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Apr. 29, 2025	Apr. 28, 2026	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Feb. 06, 2025	Feb. 05, 2026	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 14, 2025	May 13, 2026	Conduction (CO02-CB)
COND Cable	Woken	Cable	CO02	0.15MHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO02-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO02-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH06-CB	30 MHz ~ 1 GHz	Aug. 02, 2024	Aug. 01, 2025	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Jul. 29, 2024	Jul. 28, 2025	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 02, 2024	Nov. 01, 2025	Radiation (03CH06-CB)
Signal analyzer	R&S	FSV3044	101667	9kHz~44GHz	Aug. 20, 2024	Aug. 19, 2025	Radiation (03CH06-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 17, 2024	Oct. 16, 2025	Radiation (03CH06-CB)
RF Cable-low	Woken	RG402	Low Cable-05+68	30MHz~1GHz	Oct. 24, 2024	Oct. 23, 2025	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 02, 2025	May 01, 2026	Radiation (03CH03-CB)
Horn Antenna	ETS-Lindgren	3115	6821	750MHz~18GHz	Feb. 20, 2025	Feb. 19, 2026	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 29, 2024	Jun. 28, 2025	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 11, 2024	Jun. 10, 2025	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Apr. 30, 2025	Apr. 29, 2026	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.23	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH03-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)
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.
N.C.R. means Non-Calibration required.



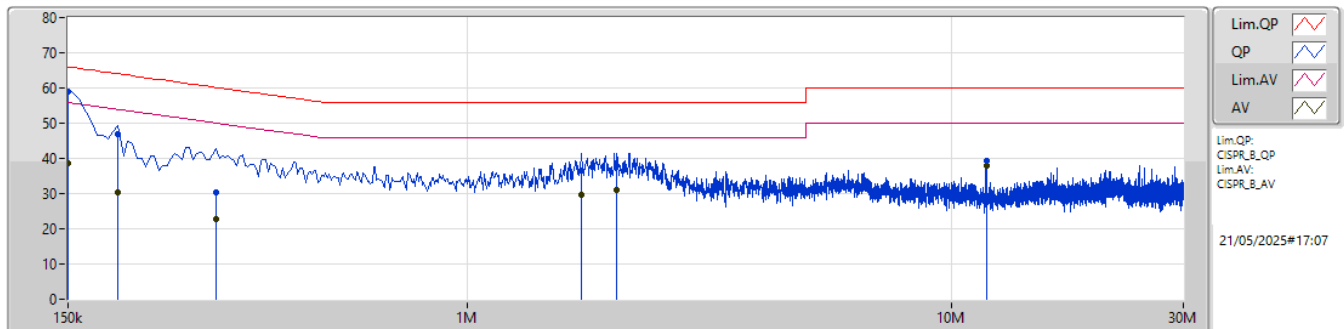
Conducted Emissions at Powerline

Appendix A

Summary

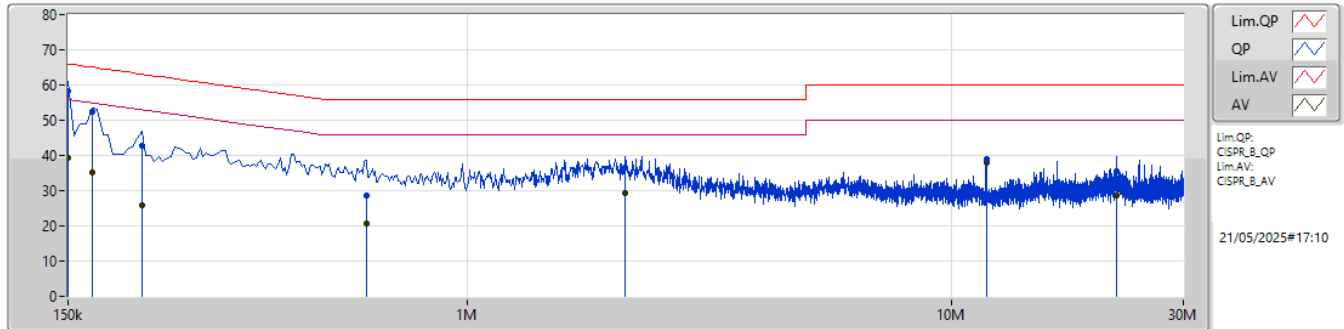
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150k	58.96	66.00	-7.04	Line

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	58.96	66.00	-7.04	10.10	Line	"Worst"	48.86	0.06	0.02	10.02						
AV	150k	38.58	56.00	-17.42	10.10	Line	-	28.48	0.06	0.02	10.02						
QP	190.5k	46.92	64.01	-17.09	10.10	Line	-	36.82	0.06	0.02	10.02						
AV	190.5k	30.32	54.01	-23.69	10.10	Line	-	20.22	0.06	0.02	10.02						
QP	303k	30.51	60.17	-29.66	10.12	Line	-	20.39	0.06	0.03	10.03						
AV	303k	22.80	50.17	-27.37	10.12	Line	-	12.68	0.06	0.03	10.03						
QP	1.716M	36.49	56.00	-19.51	10.12	Line	-	26.37	0.09	0.02	10.01						
AV	1.716M	29.63	46.00	-16.37	10.12	Line	-	19.51	0.09	0.02	10.01						
QP	2.036M	37.90	56.00	-18.10	10.12	Line	-	27.78	0.09	0.02	10.01						
AV	2.036M	31.20	46.00	-14.80	10.12	Line	-	21.08	0.09	0.02	10.01						
QP	11.76M	39.25	60.00	-20.75	10.32	Line	-	28.93	0.26	0.04	10.02						
AV	11.76M	38.06	50.00	-11.94	10.32	Line	-	27.74	0.26	0.04	10.02						

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	58.34	66.00	-7.66	10.11	Neutral	"Worst"	48.23	0.07	0.02	10.02						
AV	150k	39.39	56.00	-16.61	10.11	Neutral	-	29.28	0.07	0.02	10.02						
QP	168k	52.30	65.06	-12.76	10.11	Neutral	-	42.19	0.07	0.02	10.02						
AV	168k	35.11	55.06	-19.95	10.11	Neutral	-	25.00	0.07	0.02	10.02						
QP	213k	42.63	63.09	-20.46	10.11	Neutral	-	32.52	0.07	0.02	10.02						
AV	213k	25.91	53.09	-27.18	10.11	Neutral	-	15.80	0.07	0.02	10.02						
QP	618k	28.48	56.00	-27.52	10.13	Neutral	-	18.35	0.07	0.03	10.03						
AV	618k	20.74	46.00	-25.26	10.13	Neutral	-	10.61	0.07	0.03	10.03						
QP	2.117M	36.40	56.00	-19.60	10.13	Neutral	-	26.27	0.10	0.02	10.01						
AV	2.117M	29.45	46.00	-16.55	10.13	Neutral	-	19.32	0.10	0.02	10.01						
QP	11.76M	39.11	60.00	-20.89	10.28	Neutral	-	28.83	0.22	0.04	10.02						
AV	11.76M	38.02	50.00	-11.98	10.28	Neutral	-	27.74	0.22	0.04	10.02						
QP	21.903M	35.46	60.00	-24.54	10.37	Neutral	-	25.09	0.27	0.08	10.02						
AV	21.903M	28.55	50.00	-21.45	10.37	Neutral	-	18.18	0.27	0.08	10.02						

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)	747.5k	1.043M	1M04F1D	687.5k	1.027M
BT-LE(2Mbps)	1.275M	2.065M	2M07F1D	1.068M	2.045M

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

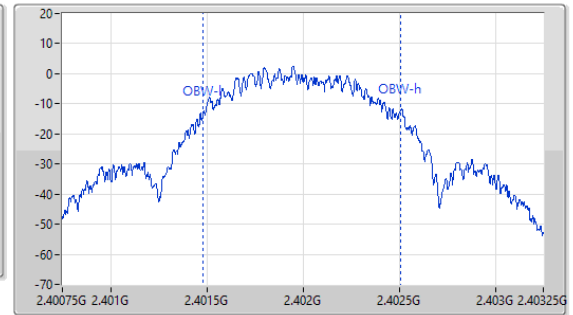
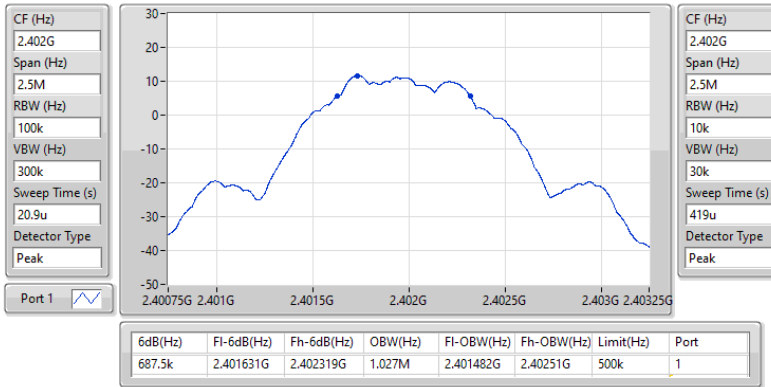
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	687.5k	1.027M
2440MHz	Pass	500k	720k	1.043M
2480MHz	Pass	500k	747.5k	1.031M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.275M	2.065M
2440MHz	Pass	500k	1.068M	2.045M
2480MHz	Pass	500k	1.178M	2.047M

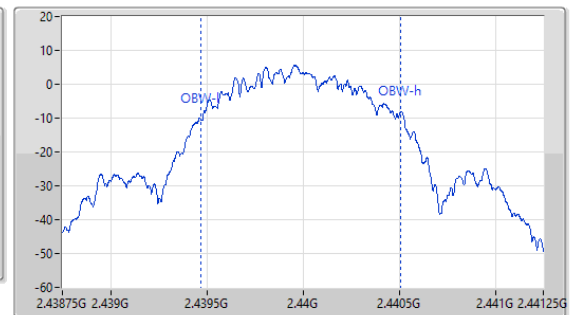
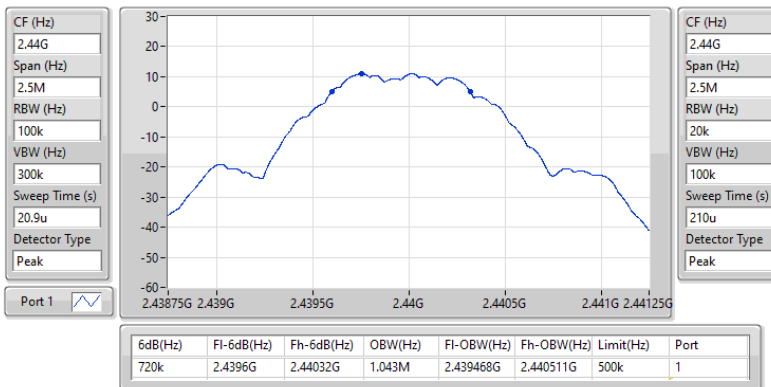
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

15/05/2025

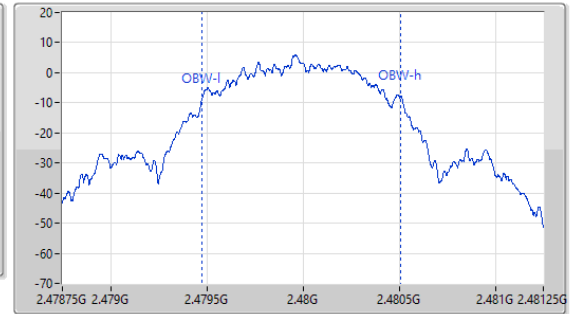
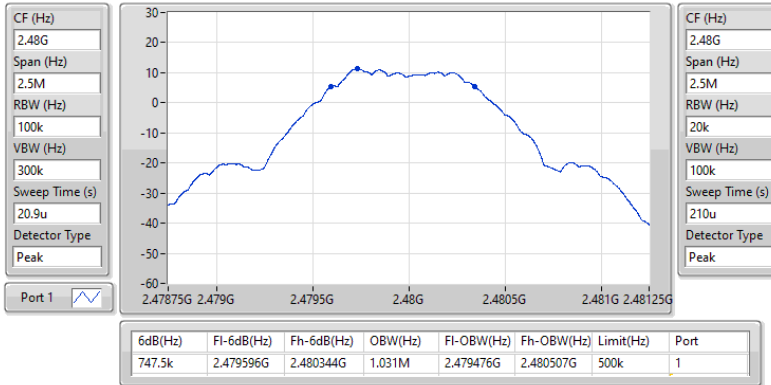

2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2440MHz

15/05/2025

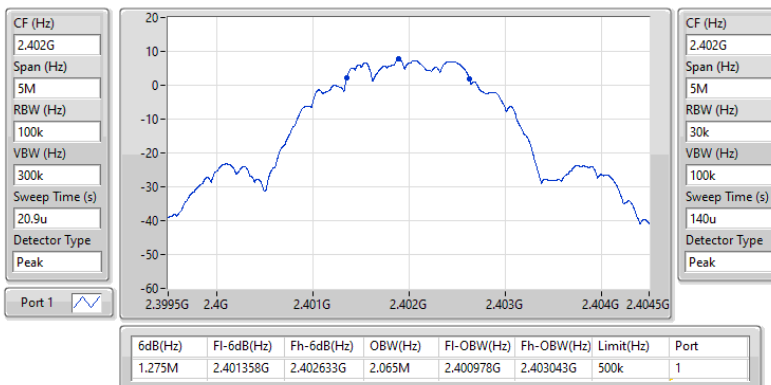


2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2480MHz

15/05/2025


2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2402MHz

15/05/2025

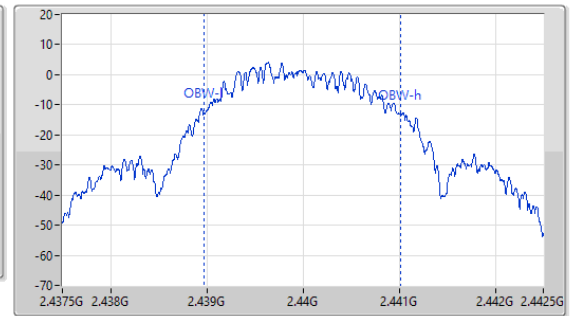
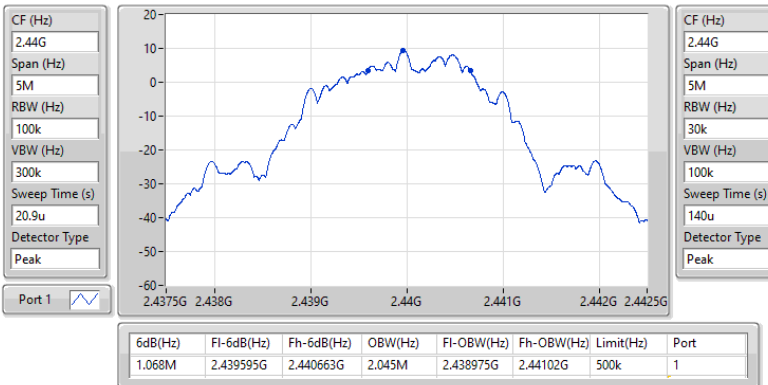


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2440MHz

15/05/2025

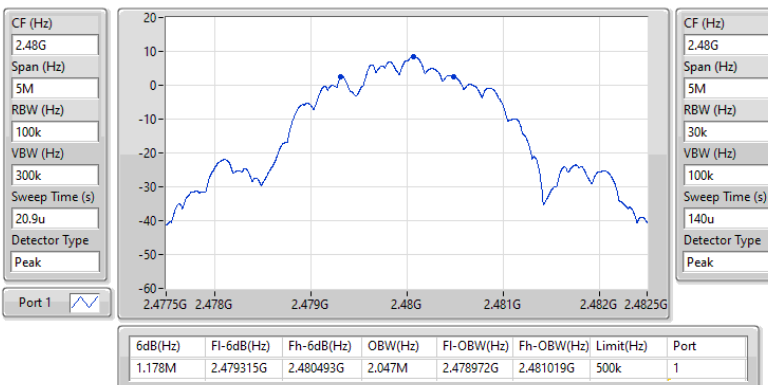


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2480MHz

15/05/2025





Average Power-DTS

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	12.73	0.01875
BT-LE(2Mbps)	12.58	0.01811



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.50	12.38	30.00
2440MHz	Pass	3.50	12.70	30.00
2480MHz	Pass	3.50	12.73	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.50	12.20	30.00
2440MHz	Pass	3.50	12.50	30.00
2480MHz	Pass	3.50	12.58	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)	-3.03
BT-LE(2Mbps)	-5.76

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.50	-3.47	8.00
2440MHz	Pass	3.50	-3.15	8.00
2480MHz	Pass	3.50	-3.03	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	0.00	-6.57	8.00
2440MHz	Pass	3.50	-7.99	8.00
2480MHz	Pass	3.50	-5.76	8.00

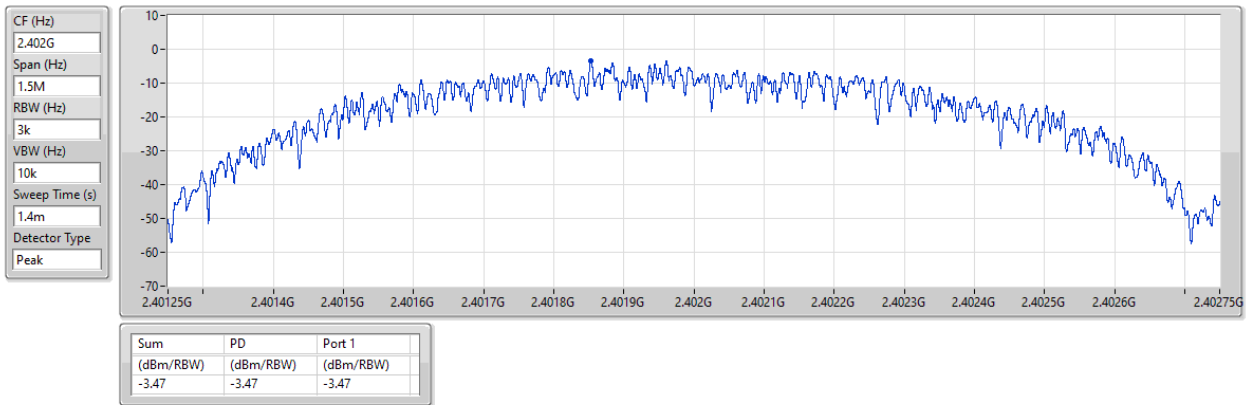
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2402MHz

15/05/2025

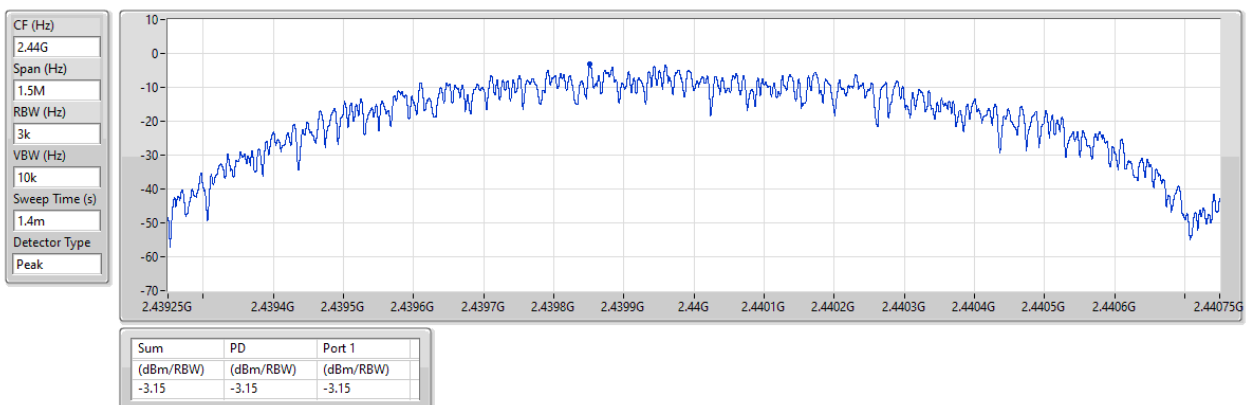


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2440MHz

15/05/2025

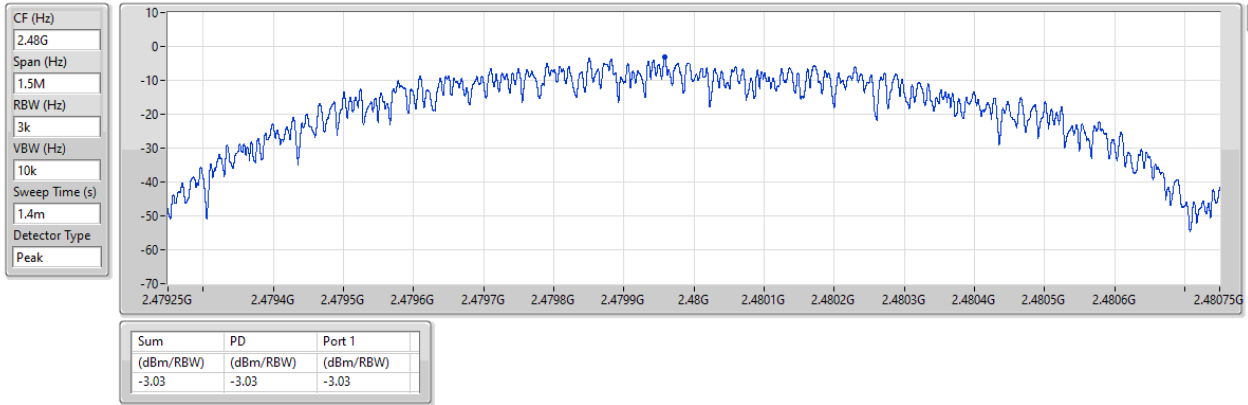


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2480MHz

15/05/2025

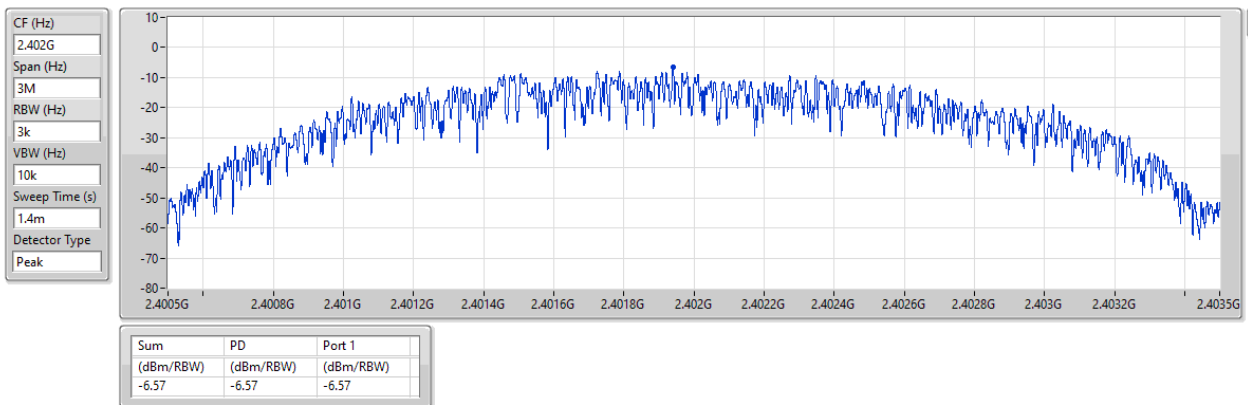


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2402MHz

15/05/2025

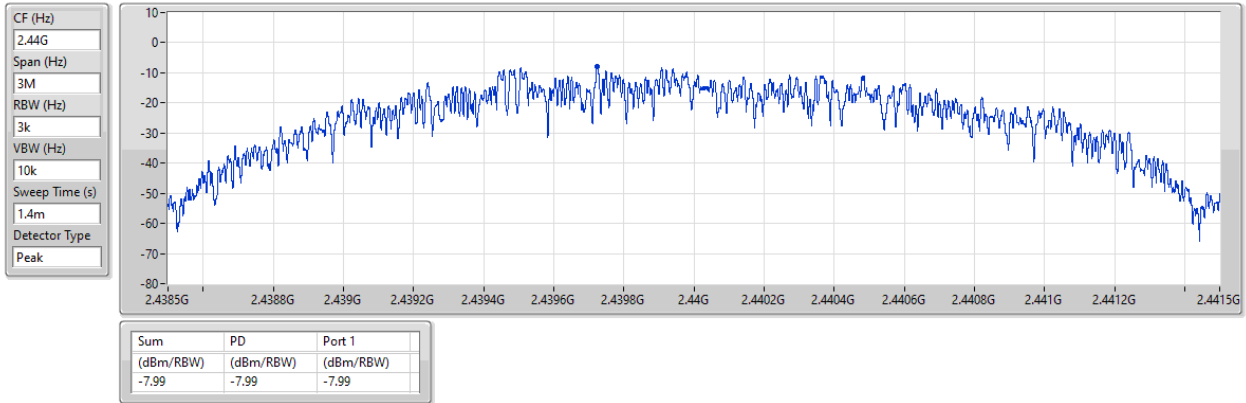


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

15/05/2025

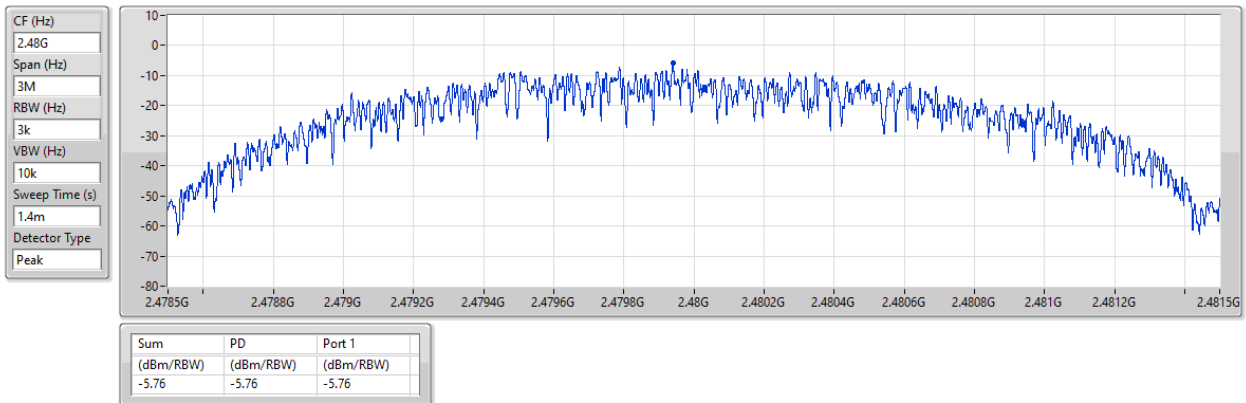


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2480MHz

15/05/2025



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	2.47999G	12.18	-17.82	78.18M	-53.59	2.39996G	-48.08	2.4G	-50.06	2.50302G	-54.72	21.98266G	-44.81	1
BT-LE(2Mbps)	Pass	2.47949G	12.40	-17.60	2.0933G	-53.26	2.4G	-19.56	2.4G	-20.95	2.50198G	-54.27	21.96578G	-44.79	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	2.47999G	12.18	-17.82	78.18M	-53.59	2.39996G	-48.08	2.4G	-50.06	2.50302G	-54.72	21.98266G	-44.81	1
2440MHz	Pass	2.47999G	12.18	-17.82	1.90178G	-53.13	2.39944G	-53.94	2.4G	-55.17	2.5009G	-53.56	6.95499G	-45.44	1
2480MHz	Pass	2.47999G	12.18	-17.82	30M	-53.47	2.39088G	-51.96	2.4G	-55.19	2.5031G	-53.46	21.68458G	-44.32	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.47949G	12.40	-17.60	2.0933G	-53.26	2.4G	-19.56	2.4G	-20.95	2.50198G	-54.27	21.96578G	-44.79	1
2440MHz	Pass	2.47949G	12.40	-17.60	1.78075G	-54.07	2.39516G	-53.19	2.4G	-56.26	2.50282G	-54.00	21.5974G	-43.28	1
2480MHz	Pass	2.47949G	12.40	-17.60	2.1873G	-53.31	2.39888G	-54.34	2.4G	-55.91	2.5027G	-54.18	21.5721G	-44.45	1

2.4-2.4835GHz_BT-LE(1Mbps)

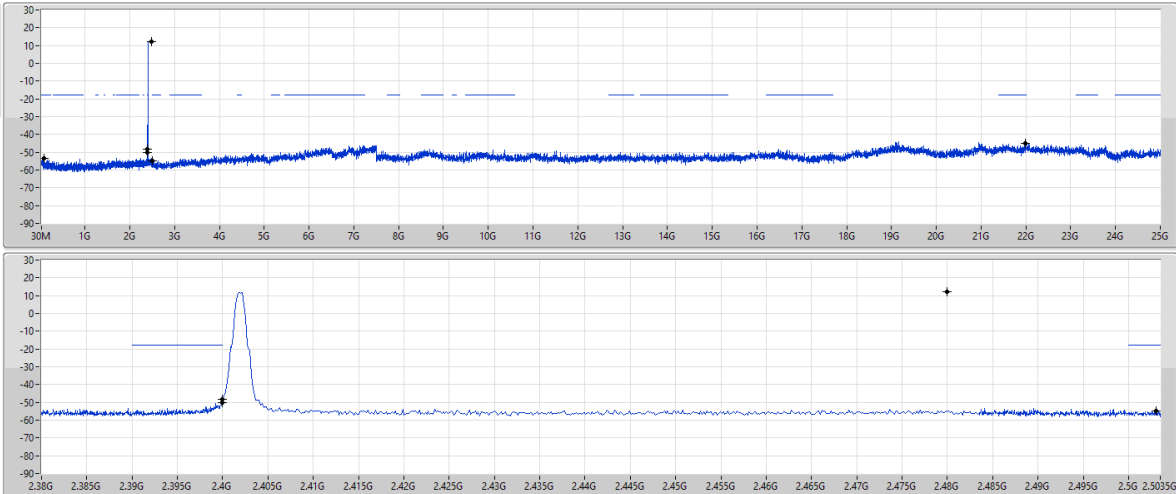
CSEndB-DTS

2402MHz

15/05/2025

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

Port 1



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
2.47999G	12.18	-17.82	78.18M	-53.59	2.39996G	-48.08	2.4G	-50.06	2.50302G	-54.72	21.98266G	-44.81	1

2.4-2.4835GHz_BT-LE(1Mbps)

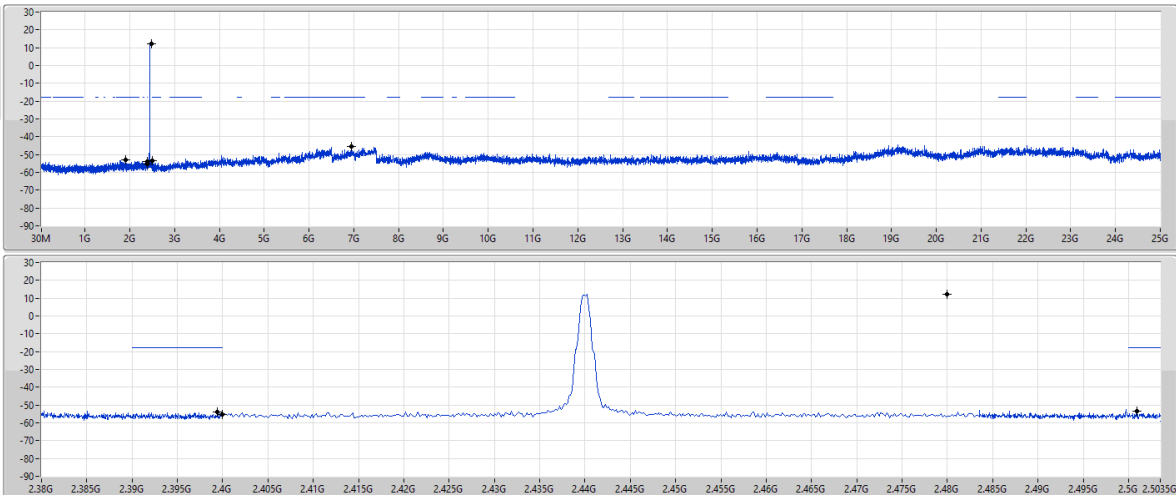
CSEndB-DTS

2440MHz

15/05/2025

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

Port 1



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
2.47999G	12.18	-17.82	1.90178G	-53.13	2.39944G	-53.94	2.4G	-55.17	2.5009G	-53.56	6.95499G	-45.44	1

2.4-2.4835GHz_BT-LE(1Mbps)

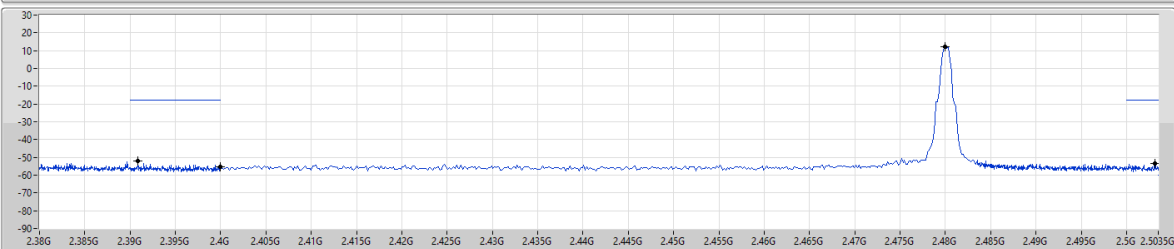
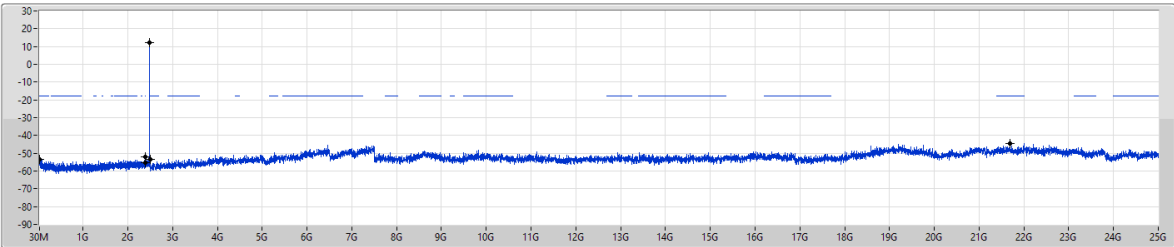
CSEndB-DTS

2480MHz

15/05/2025

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

Port 1



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
2.47999G	12.18	-17.82	30M	-53.47	2.39088G	-51.96	2.4G	-55.19	2.5031G	-53.46	21.68458G	-44.32	1

2.4-2.4835GHz_BT-LE(2Mbps)

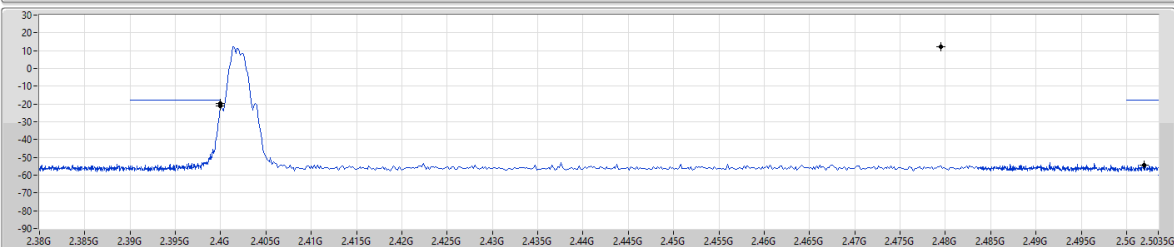
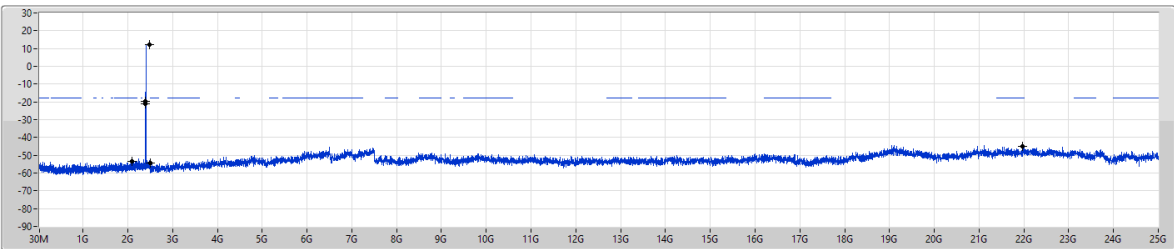
CSEndB-DTS

2402MHz

15/05/2025

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

Port 1



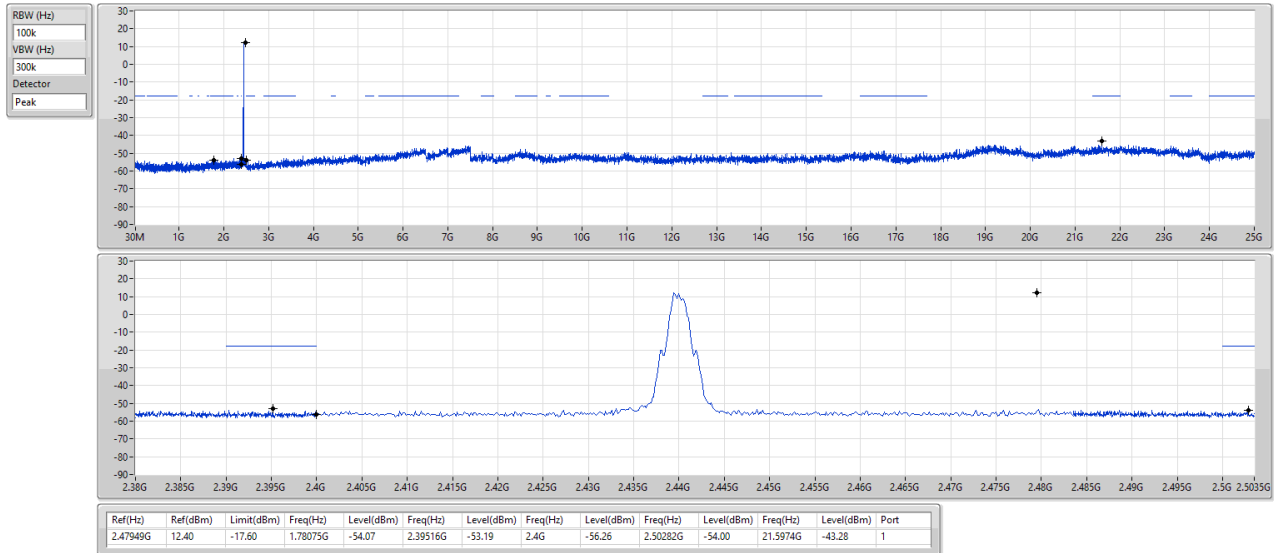
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.47949G	12.40	-17.60	2.0933G	-53.26	2.4G	-19.56	2.4G	-20.95	2.50198G	-54.27	21.96578G	-44.79	1

2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2440MHz

15/05/2025

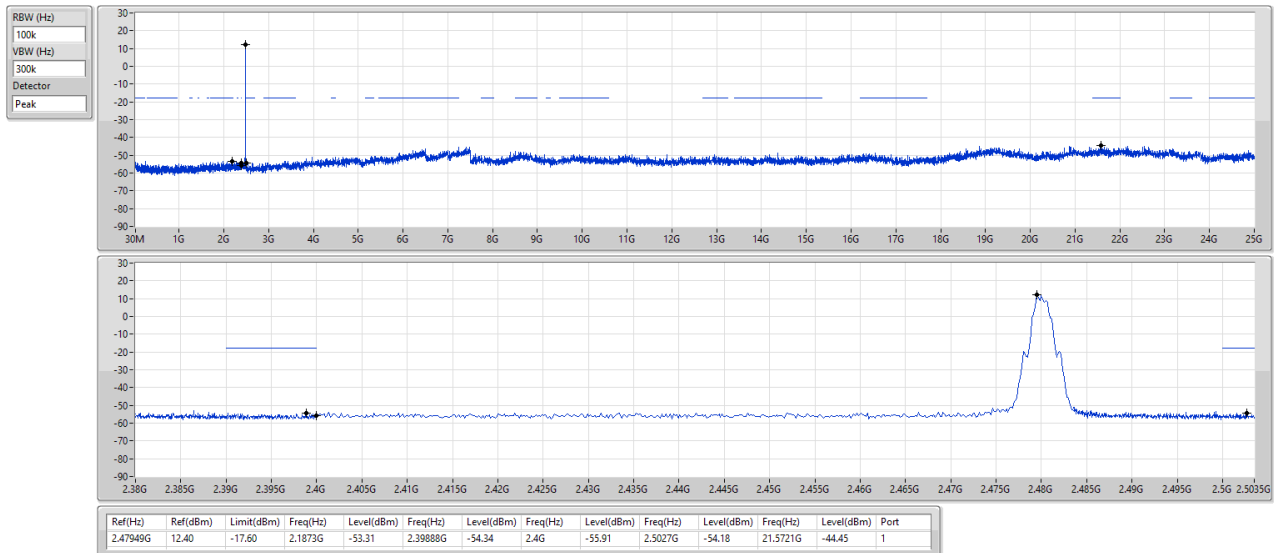


2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2480MHz

15/05/2025





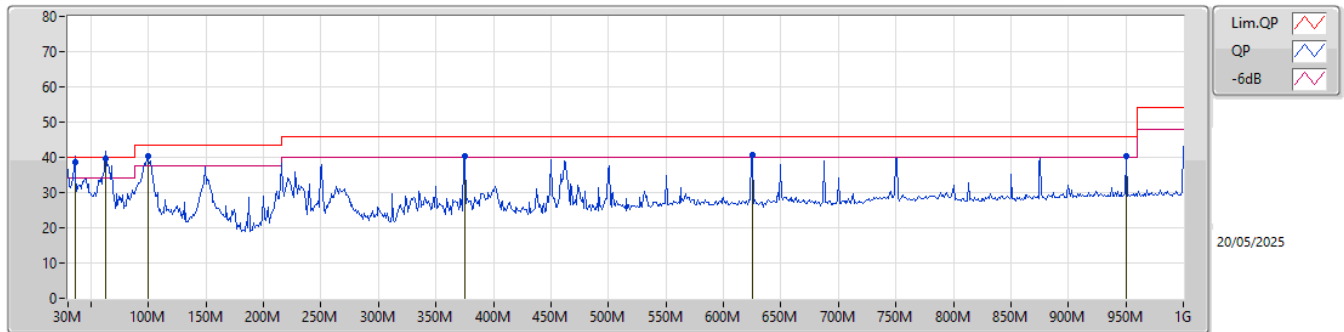
Radiated Emissions below 1GHz

Appendix F.1

Summary

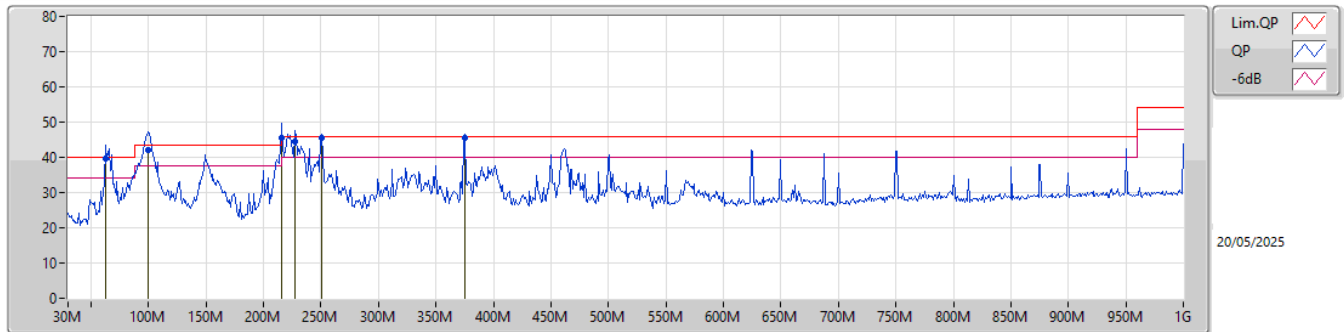
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	62.98M	39.75	40.00	-0.25	Vertical

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)		
QP	35.82M	38.47	40.00	-1.53	-10.60	3	Vertical	217	1.00	-	49.07	21.12	0.57	32.29		
QP	62.98M	39.75	40.00	-0.25	-19.47	3	Vertical	158	3.00	"Worst"	59.22	12.18	0.76	32.41		
PK	99.84M	40.23	43.50	-3.27	-14.48	3	Vertical	217	3.00	-	54.71	16.59	1.02	32.09		
PK	375.32M	40.20	46.00	-5.80	-9.18	3	Vertical	164	3.00	-	49.38	20.78	1.93	31.89		
PK	625.58M	40.82	46.00	-5.18	-4.27	3	Vertical	280	1.00	-	45.09	24.96	2.51	31.74		
PK	950.53M	40.48	46.00	-5.52	-0.92	3	Vertical	178	1.00	-	41.40	26.59	3.08	30.59		

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)		
QP	62.98M	39.53	40.00	-0.47	-19.47	3	Horizontal	61	3.00	-	59.00	12.18	0.76	32.41		
QP	99.84M	42.19	43.50	-1.31	-14.48	3	Horizontal	307	3.00	-	56.67	16.59	1.02	32.09		
QP	216M	45.57	46.00	-0.43	-15.94	3	Horizontal	103	1.50	"Worst"	61.51	14.77	1.44	32.15		
QP	227.88M	44.35	46.00	-1.65	-14.91	3	Horizontal	115	1.50	-	59.26	15.76	1.48	32.15		
QP	250.19M	45.38	46.00	-0.62	-12.26	3	Horizontal	333	1.25	-	57.64	18.32	1.56	32.14		
QP	375.32M	45.57	46.00	-0.43	-9.18	3	Horizontal	240	1.00	-	54.75	20.78	1.93	31.89		

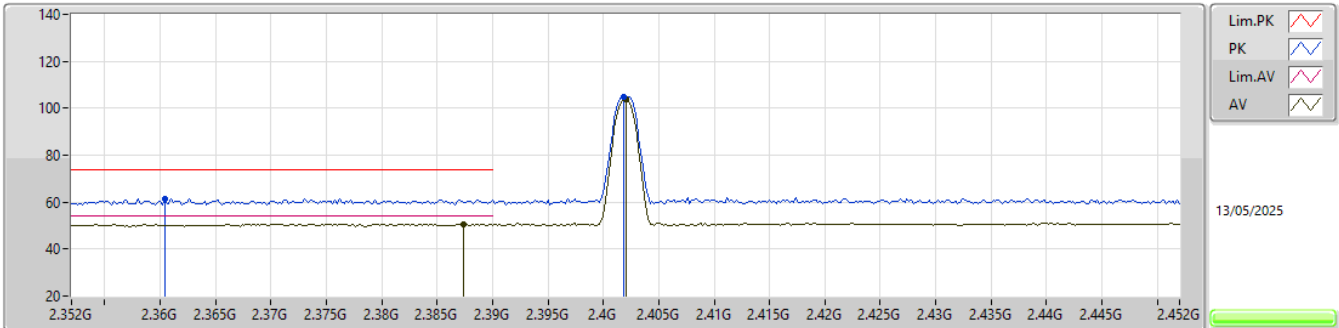


Summary

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	2.4968G	52.16	54.00	-1.84	3	Vertical	87	1.01	-

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

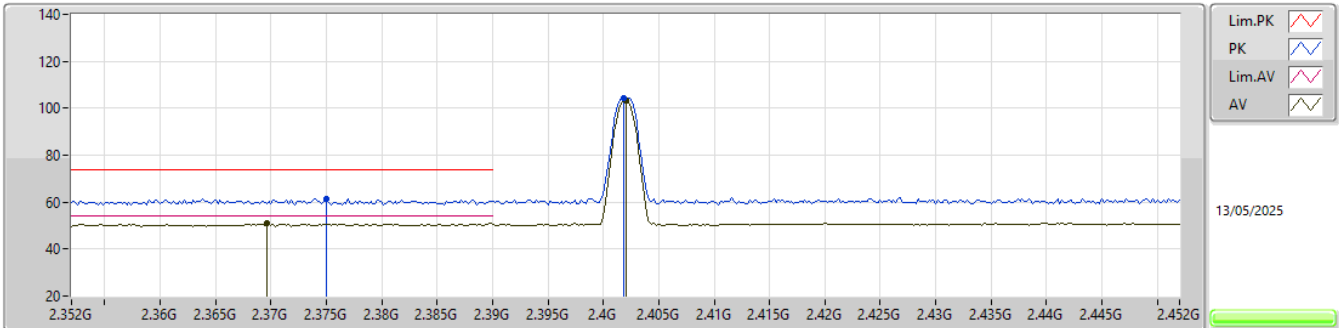


EUT_Y_1TX
Setting 15
03-P-S-2

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	2.3604G	61.54	74.00	-12.46	28.47	3	Vertical	71	1.08	-	28.30	4.77	-				
AV	2.3874G	50.74	54.00	-3.26	17.57	3	Vertical	71	1.08	-	28.37	4.80	-				
PK	2.4018G	104.79	Inf	-Inf	71.67	3	Vertical	71	1.08	-	28.30	4.82	-				
AV	2.402G	103.91	Inf	-Inf	70.79	3	Vertical	71	1.08	-	28.30	4.82	-				

2.4-2.4835GHz_BT-LE(1Mbps)

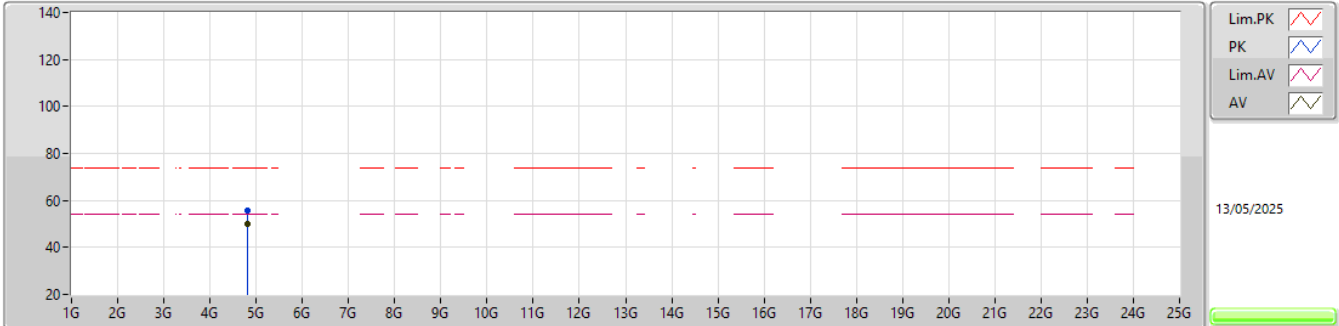
2402MHz_TX


EUT_Y_1TX
Setting 15
03-P-S-2

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	2.375G	61.48	74.00	-12.52	28.39	3	Horizontal	334	1.80	-	28.30	4.79	-			
AV	2.3696G	50.83	54.00	-3.17	17.75	3	Horizontal	334	1.80	-	28.30	4.78	-			
PK	2.4018G	104.22	Inf	-Inf	71.10	3	Horizontal	334	1.80	-	28.30	4.82	-			
AV	2.402G	103.16	Inf	-Inf	70.04	3	Horizontal	334	1.80	-	28.30	4.82	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

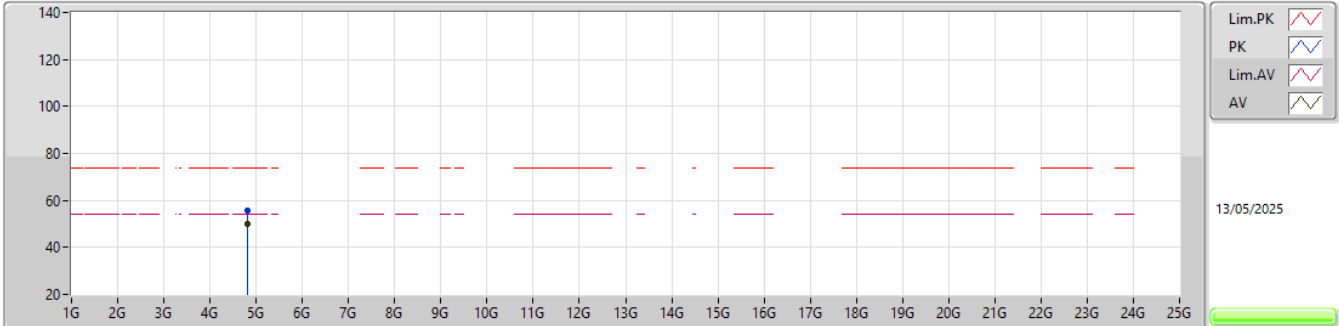


EUT_X_1TX
Setting 15
03-P-S-2

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	4.80346G	55.85	74.00	-18.15	50.56	3	Vertical	94	1.40	-	33.41	7.21	35.33			
AV	4.80389G	49.88	54.00	-4.12	44.59	3	Vertical	94	1.40	-	33.41	7.21	35.33			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

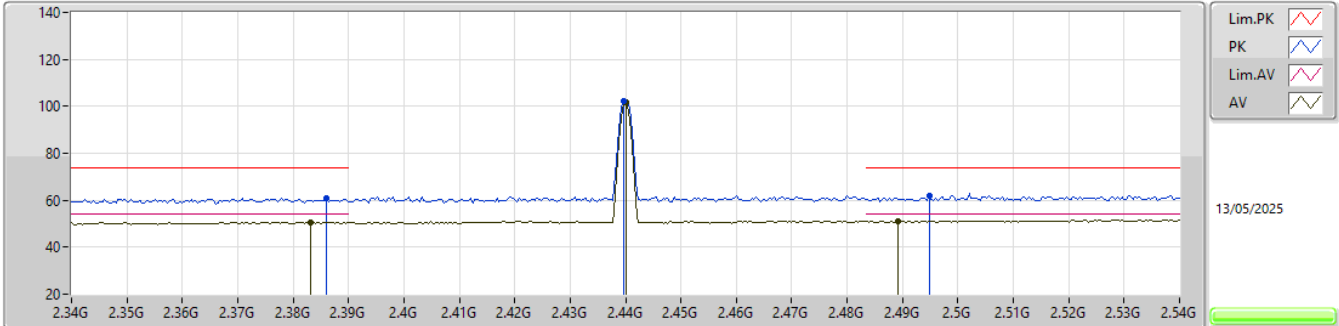


EUT_X_1TX
Setting 15
03-P-S-2

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	4.80352G	55.86	74.00	-18.14	50.57	3	Horizontal	202	1.08	-	33.41	7.21	35.33			
AV	4.80388G	49.99	54.00	-4.01	44.70	3	Horizontal	202	1.08	-	33.41	7.21	35.33			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

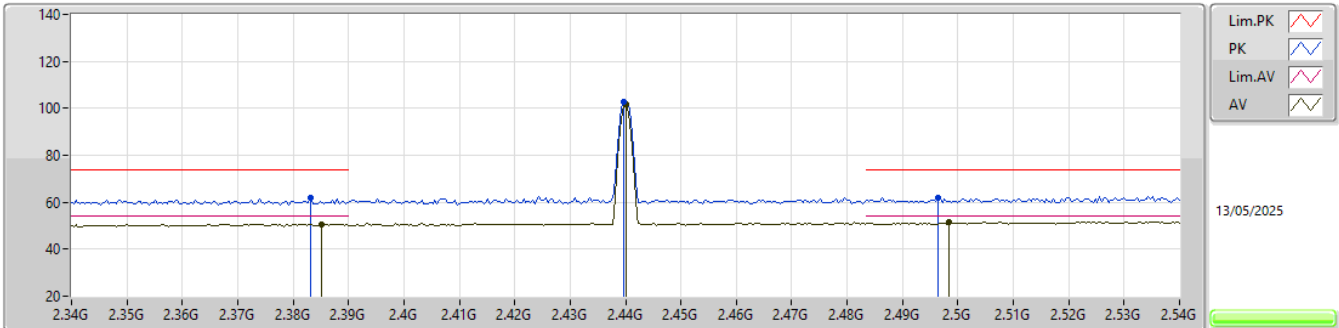


EUT_Y_1TX
Setting 15
03-P-S-2

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	2.386G	60.95	74.00	-13.05	27.79	3	Vertical	88	1.09	-	28.36	4.80	-				
AV	2.3832G	50.68	54.00	-3.32	17.55	3	Vertical	88	1.09	-	28.33	4.80	-				
PK	2.4396G	102.44	Inf	-Inf	69.18	3	Vertical	88	1.09	-	28.40	4.86	-				
AV	2.44G	101.55	Inf	-Inf	68.29	3	Vertical	88	1.09	-	28.40	4.86	-				
PK	2.4948G	61.97	74.00	-12.03	28.60	3	Vertical	88	1.09	-	28.45	4.92	-				
AV	2.4892G	51.26	54.00	-2.74	17.94	3	Vertical	88	1.09	-	28.40	4.92	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

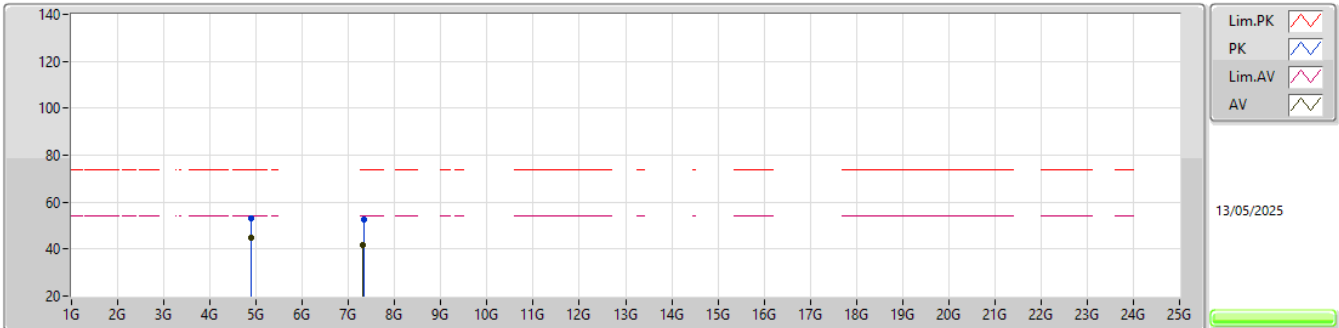


EUT_Y_1TX
Setting 15
03-P-S-2

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	2.3832G	61.64	74.00	-12.36	28.51	3	Horizontal	338	1.94	-	28.33	4.80	-				
AV	2.3852G	50.71	54.00	-3.29	17.56	3	Horizontal	338	1.94	-	28.35	4.80	-				
PK	2.4396G	102.57	Inf	-Inf	69.31	3	Horizontal	338	1.94	-	28.40	4.86	-				
AV	2.44G	101.70	Inf	-Inf	68.44	3	Horizontal	338	1.94	-	28.40	4.86	-				
PK	2.4964G	61.74	74.00	-12.26	28.35	3	Horizontal	338	1.94	-	28.46	4.93	-				
AV	2.4984G	51.37	54.00	-2.63	17.96	3	Horizontal	338	1.94	-	28.48	4.93	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

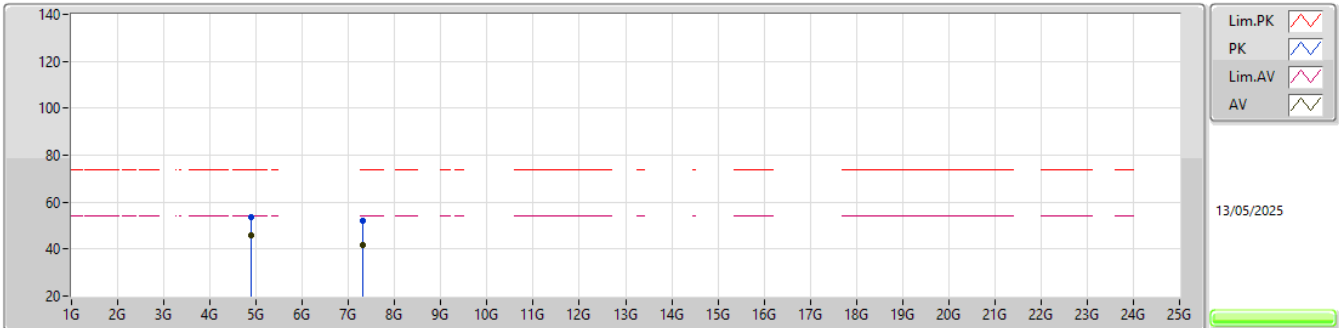


EUT_X_1TX
Setting 15
03-P-S-2

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	4.87948G	52.96	74.00	-21.04	47.55	3	Vertical	94	1.24	-	33.56	7.18	35.33				
AV	4.87987G	45.00	54.00	-9.00	39.59	3	Vertical	94	1.24	-	33.56	7.18	35.33				
PK	7.32211G	52.53	74.00	-21.47	42.23	3	Vertical	54	2.71	-	36.84	8.62	35.16				
AV	7.31973G	41.47	54.00	-12.53	31.17	3	Vertical	54	2.71	-	36.84	8.62	35.16				

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

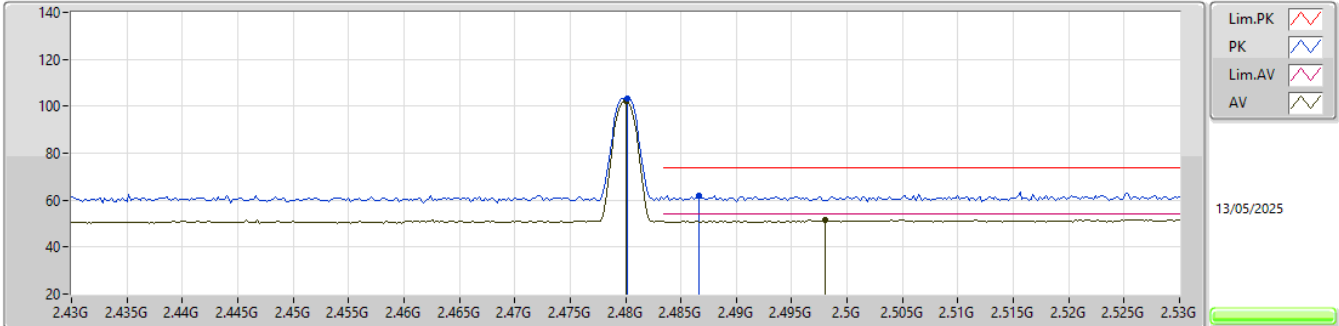


EUT_X_1TX
Setting 15
03-P-S-2

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	4.87996G	53.68	74.00	-20.32	48.27	3	Horizontal	200	1.25	-	33.56	7.18	35.33				
AV	4.87986G	45.73	54.00	-8.27	40.32	3	Horizontal	200	1.25	-	33.56	7.18	35.33				
PK	7.31993G	52.15	74.00	-21.85	41.85	3	Horizontal	310	1.48	-	36.84	8.62	35.16				
AV	7.31777G	41.51	54.00	-12.49	31.21	3	Horizontal	310	1.48	-	36.84	8.62	35.16				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

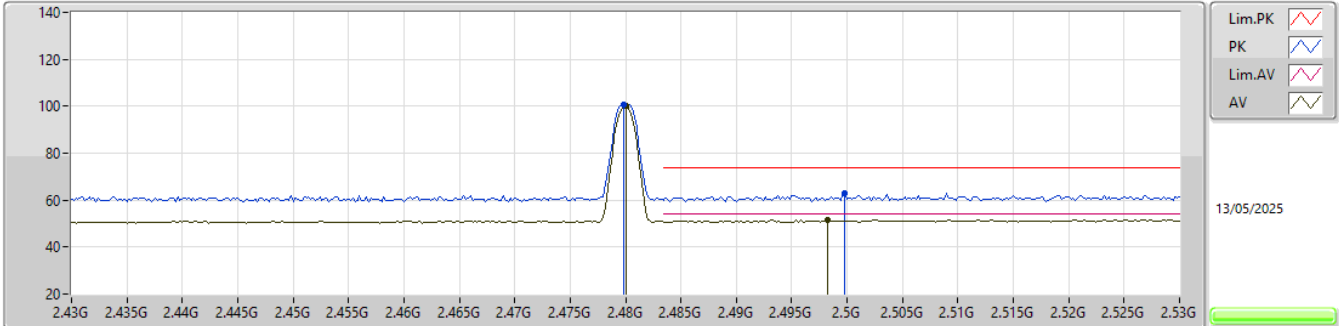


EUT_Y_1TX
Setting 15
03-P-S-2

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	2.4802G	103.31	Inf	-Inf	70.00	3	Vertical	70	1.20	-	28.40	4.91	-				
AV	2.48G	102.40	Inf	-Inf	69.09	3	Vertical	70	1.20	-	28.40	4.91	-				
PK	2.4866G	61.73	74.00	-12.27	28.41	3	Vertical	70	1.20	-	28.40	4.92	-				
AV	2.498G	51.65	54.00	-2.35	18.24	3	Vertical	70	1.20	-	28.48	4.93	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

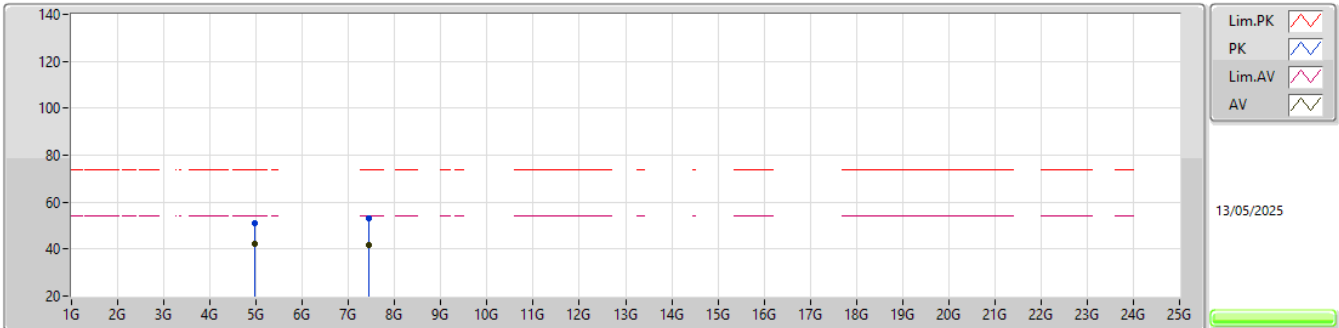


EUT_Y_1TX
Setting 15
03-P-S-2

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	100.82	Inf	-Inf	67.51	3	Horizontal	337	2.15	-	28.40	4.91	-				
AV	2.48G	99.93	Inf	-Inf	66.62	3	Horizontal	337	2.15	-	28.40	4.91	-				
PK	2.4998G	62.97	74.00	-11.03	29.54	3	Horizontal	337	2.15	-	28.50	4.93	-				
AV	2.4982G	51.37	54.00	-2.63	17.96	3	Horizontal	337	2.15	-	28.48	4.93	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

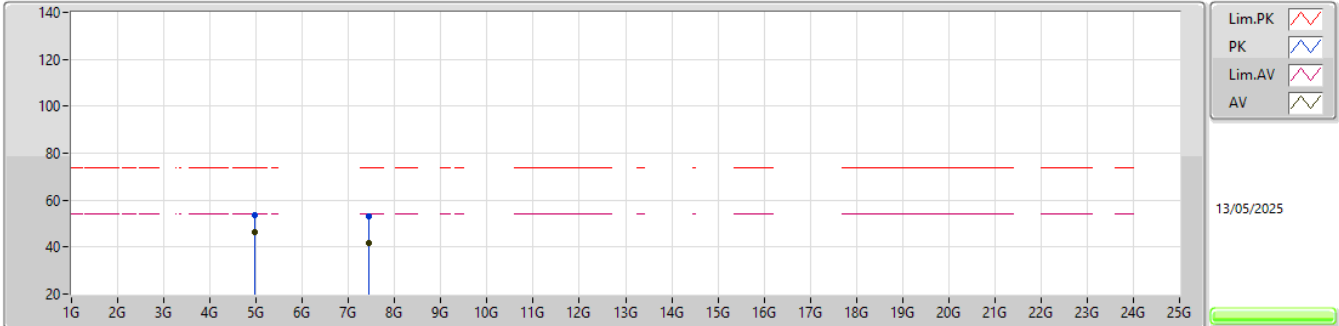


EUT_X_1TX
Setting 15
03-P-S-2

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	4.96012G	51.10	74.00	-22.90	45.66	3	Vertical	84	1.56	-	33.62	7.15	35.33			
AV	4.95978G	42.34	54.00	-11.66	36.90	3	Vertical	84	1.56	-	33.62	7.15	35.33			
PK	7.43954G	52.91	74.00	-21.09	42.36	3	Vertical	85	1.71	-	37.00	8.72	35.17			
AV	7.44229G	41.90	54.00	-12.10	31.35	3	Vertical	85	1.71	-	37.00	8.72	35.17			

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

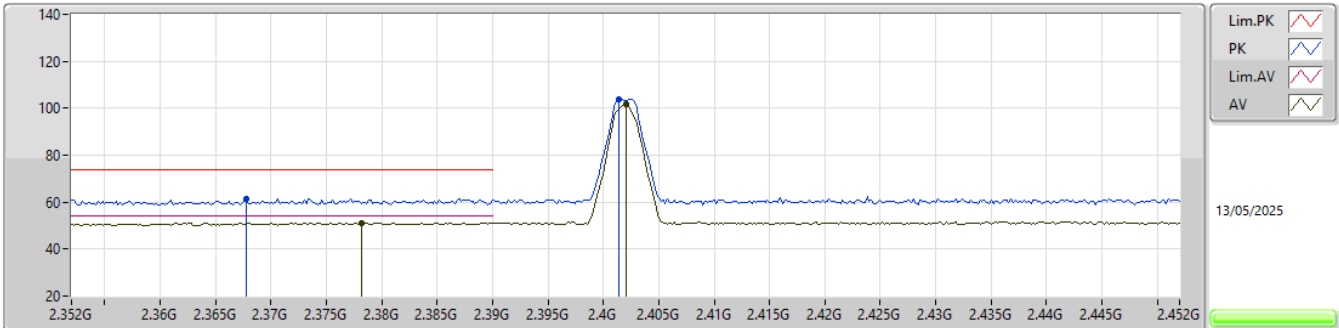


EUT_X_1TX
Setting 15
03-P-S-2

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	4.96043G	53.58	74.00	-20.42	48.14	3	Horizontal	74	2.60	-	33.62	7.15	35.33			
AV	4.96014G	46.51	54.00	-7.49	41.07	3	Horizontal	74	2.60	-	33.62	7.15	35.33			
PK	7.43995G	52.95	74.00	-21.05	42.40	3	Horizontal	165	1.32	-	37.00	8.72	35.17			
AV	7.43788G	41.88	54.00	-12.12	31.33	3	Horizontal	165	1.32	-	37.00	8.72	35.17			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

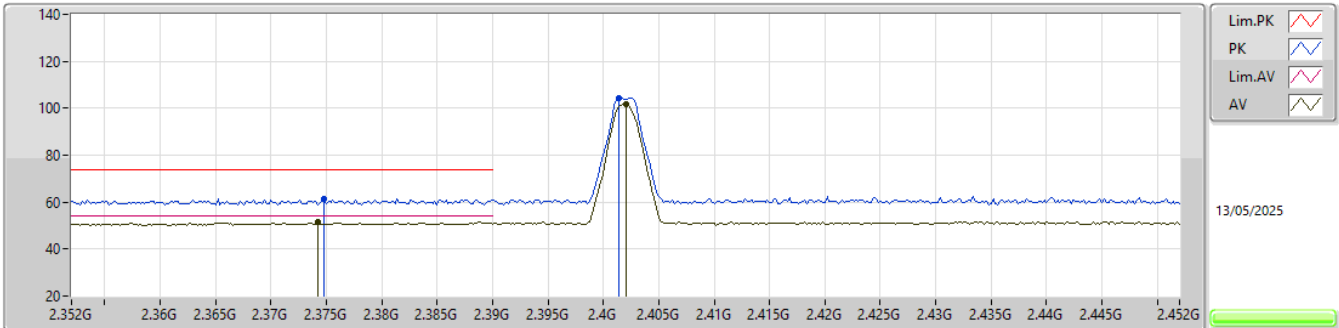


EUT_Y_1TX
Setting 15
03-P-S-2

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	2.3678G	61.27	74.00	-12.73	28.19	3	Vertical	88	1.10	-	28.30	4.78	-				
AV	2.3782G	51.16	54.00	-2.84	18.07	3	Vertical	88	1.10	-	28.30	4.79	-				
PK	2.4014G	104.01	Inf	-Inf	70.89	3	Vertical	88	1.10	-	28.30	4.82	-				
AV	2.402G	101.56	Inf	-Inf	68.44	3	Vertical	88	1.10	-	28.30	4.82	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

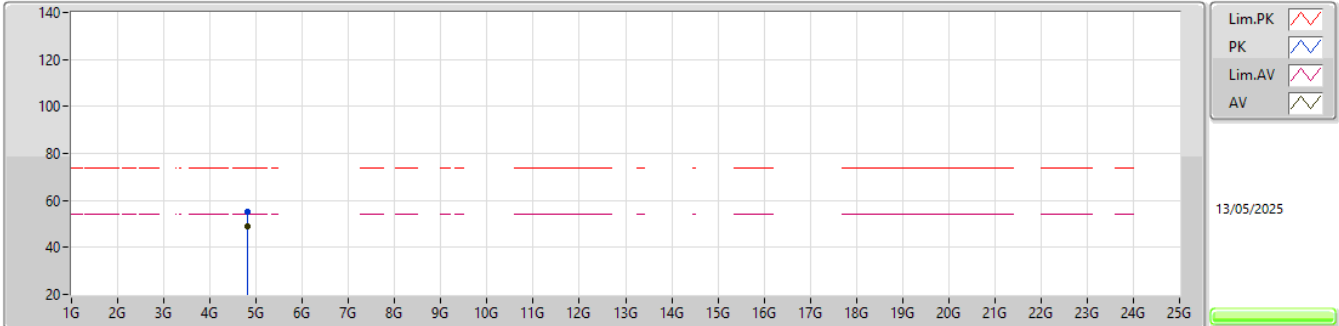


EUT_Y_1TX
Setting 15
03-P-S-2

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	2.3748G	61.48	74.00	-12.52	28.39	3	Horizontal	339	2.04	-	28.30	4.79	-			
AV	2.3742G	51.39	54.00	-2.61	18.30	3	Horizontal	339	2.04	-	28.30	4.79	-			
PK	2.4014G	104.31	Inf	-Inf	71.19	3	Horizontal	339	2.04	-	28.30	4.82	-			
AV	2.402G	101.86	Inf	-Inf	68.74	3	Horizontal	339	2.04	-	28.30	4.82	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

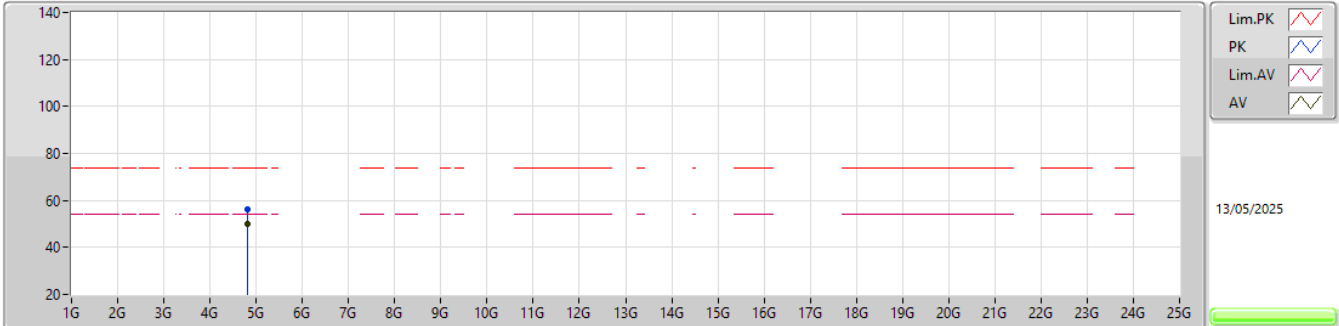


EUT_X_1TX
Setting 15
03-P-S-2

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	4.80301G	55.23	74.00	-18.77	49.94	3	Vertical	91	1.27	-	33.41	7.21	35.33			
AV	4.80297G	49.16	54.00	-4.84	43.87	3	Vertical	91	1.27	-	33.41	7.21	35.33			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

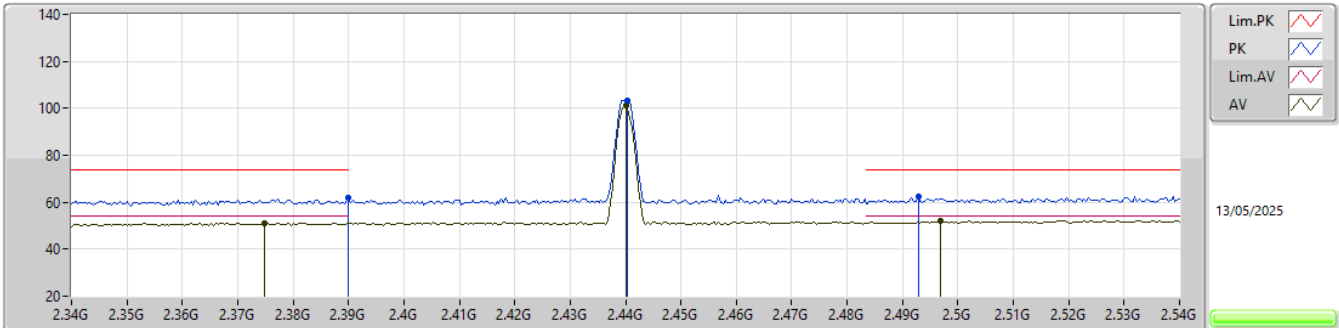


EUT_X_1TX
Setting 15
03-P-S-2

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	4.80296G	55.99	74.00	-18.01	50.70	3	Horizontal	197	1.09	-	33.41	7.21	35.33			
AV	4.80295G	49.89	54.00	-4.11	44.60	3	Horizontal	197	1.09	-	33.41	7.21	35.33			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

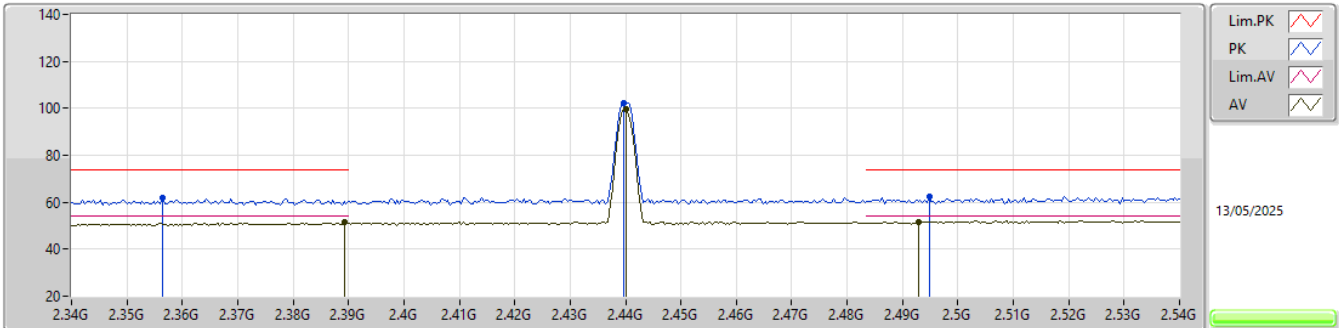


EUT_Y_1TX
Setting 15
03-P-S-2

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	2.39G	61.68	74.00	-12.32	28.47	3	Vertical	87	1.01	-	28.40	4.81	-			
AV	2.3748G	51.14	54.00	-2.86	18.05	3	Vertical	87	1.01	-	28.30	4.79	-			
PK	2.4404G	103.39	Inf	-Inf	70.13	3	Vertical	87	1.01	-	28.40	4.86	-			
AV	2.44G	100.98	Inf	-Inf	67.72	3	Vertical	87	1.01	-	28.40	4.86	-			
PK	2.4928G	62.42	74.00	-11.58	29.07	3	Vertical	87	1.01	-	28.43	4.92	-			
AV	2.4968G	52.16	54.00	-1.84	18.76	3	Vertical	87	1.01	-	28.47	4.93	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

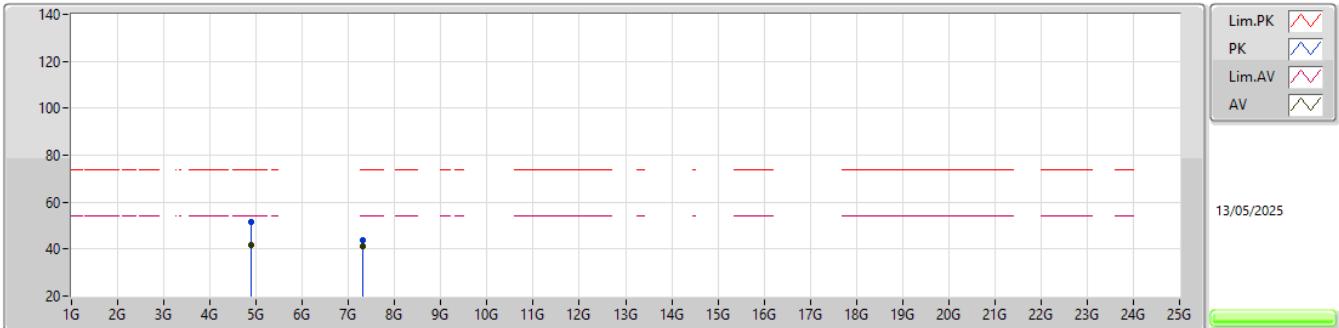


EUT_Y_1TX
Setting 15
03-P-S-2

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	2.3564G	62.12	74.00	-11.88	29.06	3	Horizontal	344	2.16	-	28.30	4.76	-			
AV	2.3892G	51.33	54.00	-2.67	18.13	3	Horizontal	344	2.16	-	28.39	4.81	-			
PK	2.4396G	102.24	Inf	-Inf	68.98	3	Horizontal	344	2.16	-	28.40	4.86	-			
AV	2.44G	99.80	Inf	-Inf	66.54	3	Horizontal	344	2.16	-	28.40	4.86	-			
PK	2.4948G	62.29	74.00	-11.71	28.92	3	Horizontal	344	2.16	-	28.45	4.92	-			
AV	2.4928G	51.58	54.00	-2.42	18.23	3	Horizontal	344	2.16	-	28.43	4.92	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

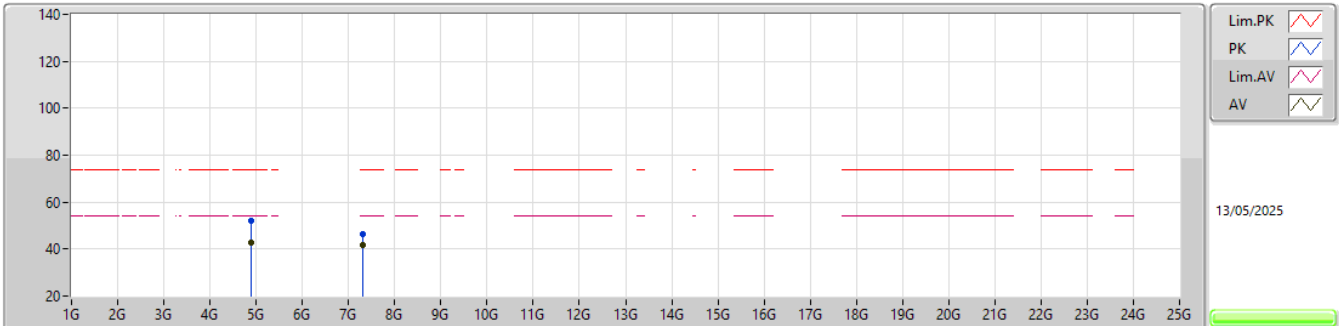


EUT_X_1TX
Setting 15
03-P-S-2

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	4.87899G	51.65	74.00	-22.35	46.24	3	Vertical	87	1.80	-	33.56	7.18	35.33				
AV	4.87899G	41.67	54.00	-12.33	36.26	3	Vertical	87	1.80	-	33.56	7.18	35.33				
PK	7.31821G	43.94	74.00	-30.06	33.64	3	Vertical	262	2.17	-	36.84	8.62	35.16				
AV	7.32078G	41.42	54.00	-12.58	31.12	3	Vertical	262	2.17	-	36.84	8.62	35.16				

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

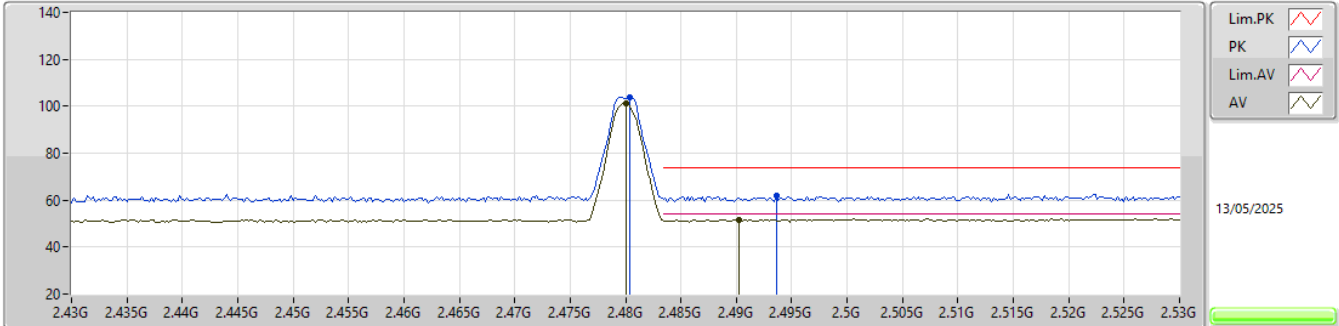


EUT_X_1TX
Setting 15
03-P-S-2

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	4.87893G	52.10	74.00	-21.90	46.69	3	Horizontal	202	1.20	-	33.56	7.18	35.33				
AV	4.87897G	42.51	54.00	-11.49	37.10	3	Horizontal	202	1.20	-	33.56	7.18	35.33				
PK	7.31808G	46.39	74.00	-27.61	36.09	3	Horizontal	231	2.42	-	36.84	8.62	35.16				
AV	7.31905G	41.56	54.00	-12.44	31.26	3	Horizontal	231	2.42	-	36.84	8.62	35.16				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

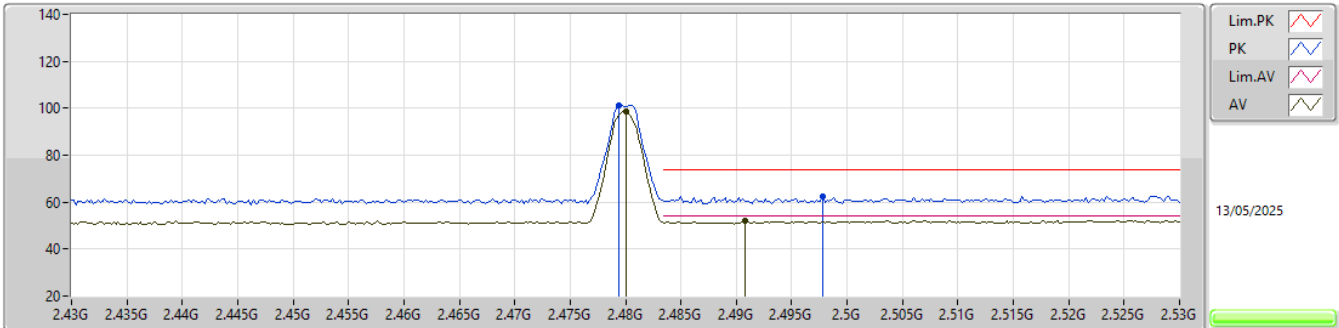


EUT_Y_1TX
Setting 15
03-P-S-2

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	2.4804G	103.77	Inf	-Inf	70.46	3	Vertical	86	1.37	-	28.40	4.91	-				
AV	2.48G	101.32	Inf	-Inf	68.01	3	Vertical	86	1.37	-	28.40	4.91	-				
PK	2.4936G	61.71	74.00	-12.29	28.35	3	Vertical	86	1.37	-	28.44	4.92	-				
AV	2.4902G	51.81	54.00	-2.19	18.49	3	Vertical	86	1.37	-	28.40	4.92	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

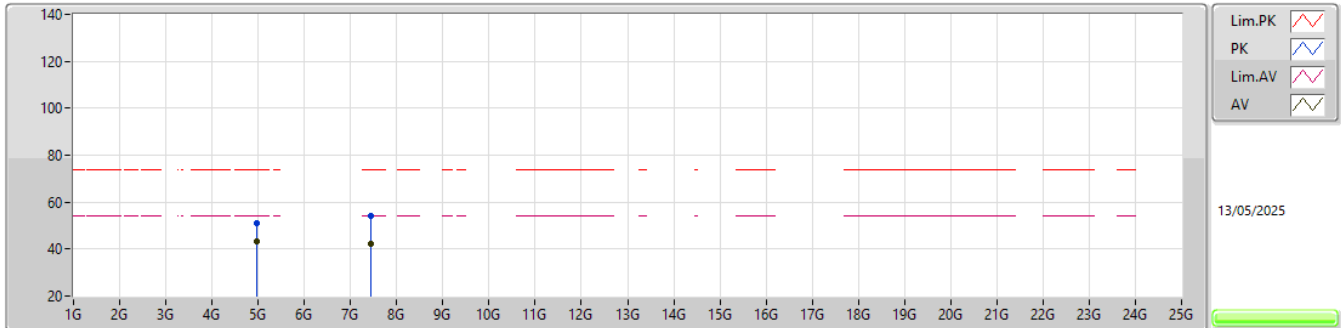


EUT_Y_1TX
Setting 15
03-P-S-2

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	2.4794G	101.10	Inf	-Inf	67.79	3	Horizontal	339	1.90	-	28.40	4.91	-			
AV	2.48G	98.68	Inf	-Inf	65.37	3	Horizontal	339	1.90	-	28.40	4.91	-			
PK	2.4978G	62.57	74.00	-11.43	29.16	3	Horizontal	339	1.90	-	28.48	4.93	-			
AV	2.4908G	51.82	54.00	-2.18	18.49	3	Horizontal	339	1.90	-	28.41	4.92	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

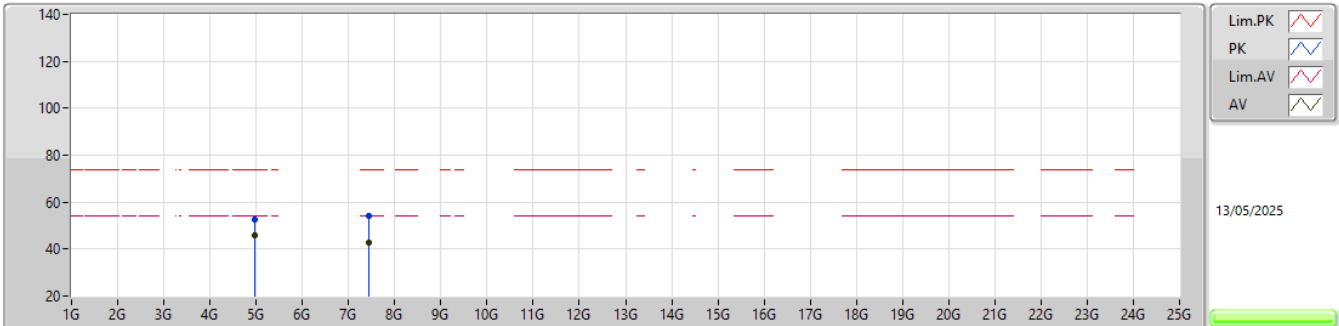


EUT_X_1TX
Setting 15
03-P-S-2

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	4.96096G	51.09	74.00	-22.91	45.65	3	Vertical	92	1.44	-	33.62	7.15	35.33				
AV	4.9589G	43.45	54.00	-10.55	38.01	3	Vertical	92	1.44	-	33.62	7.15	35.33				
PK	7.43965G	53.93	74.00	-20.07	43.38	3	Vertical	257	2.64	-	37.00	8.72	35.17				
AV	7.43861G	42.43	54.00	-11.57	31.88	3	Vertical	257	2.64	-	37.00	8.72	35.17				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



EUT_X_1TX
Setting 15
03-P-S-2

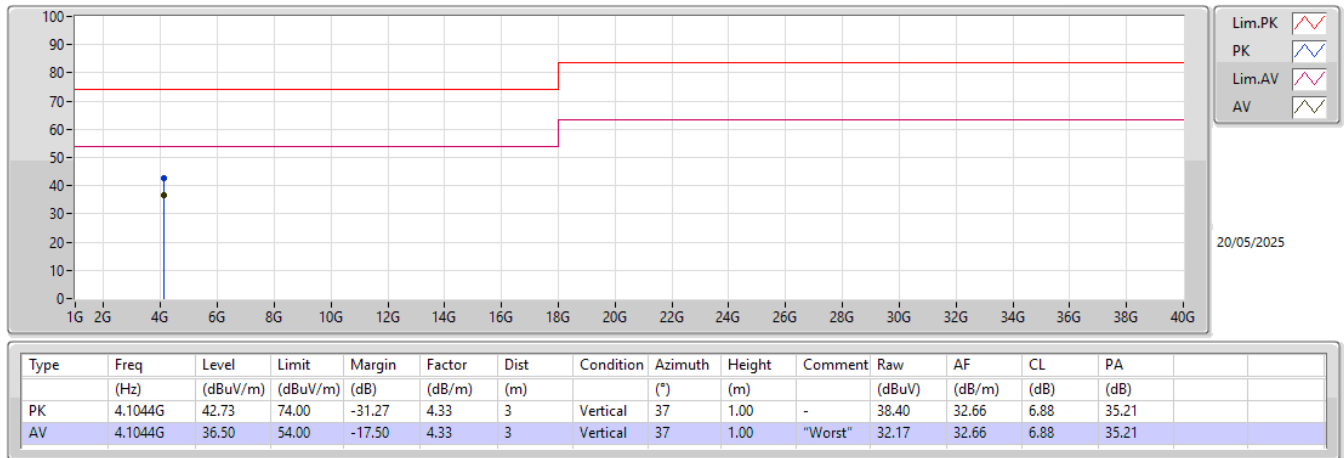
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.95884G	52.74	74.00	-21.26	47.30	3	Horizontal	320	1.00	-	33.62	7.15	35.33			
AV	4.95902G	45.68	54.00	-8.32	40.24	3	Horizontal	320	1.00	-	33.62	7.15	35.33			
PK	7.44028G	54.16	74.00	-19.84	43.61	3	Horizontal	170	2.03	-	37.00	8.72	35.17			
AV	7.43921G	42.64	54.00	-11.36	32.09	3	Horizontal	170	2.03	-	37.00	8.72	35.17			



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	AV	4.1044G	36.50	54.00	-17.50	Vertical

Mode 2



Mode 2

