

FCC Radio Test Report

FCC ID : 2AIBX-VALUE
Equipment : 802.11 b/g/n/ax 1T1R 2.4GHz Wi-Fi + BLE 5.4 combo module
Brand Name : Electrolux
Model Name : VALUE
Applicant : Electrolux Italia S.p.A.
Corso Lino Zanussi 24 / 33080 Porcia (PN), Italy
Manufacturer : Electrolux Italia S.p.A.
Corso Lino Zanussi 24 / 33080 Porcia (PN), Italy
Standard : 47 CFR FCC Part 15.247

The product was received on Mar. 12, 2025, and testing was started from Mar. 25, 2025 and completed on Apr. 10, 2025. We, SPORTON INTERNATIONAL INC. Hsinhua 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



Table of Contents

HISTORY OF THIS TEST REPORT	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Information.....	5
1.2 Testing Applied Standards	7
1.3 Testing Location Information	7
1.4 Measurement Uncertainty	7
2 TEST CONFIGURATION OF EUT.....	8
2.1 Test Channel Mode	8
2.2 The Worst Case Measurement Configuration	9
2.3 Support Equipment.....	10
2.4 Test Setup Diagram	11
3 TRANSMITTER TEST RESULT	12
3.1 AC Power-line Conducted Emissions	12
3.2 DTS Bandwidth.....	14
3.3 Maximum Conducted Output Power	15
3.4 Power Spectral Density	17
3.5 Emissions in Non-restricted Frequency Bands	18
3.6 Emissions in Restricted Frequency Bands.....	19
4 TEST EQUIPMENT AND CALIBRATION DATA.....	23
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS	
APPENDIX B. TEST RESULTS OF DTS BANDWIDTH	
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER	
APPENDIX D. TEST RESULTS OF POWER SPECTRAL DENSITY	
APPENDIX E. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS	
APPENDIX F. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS	
APPENDIX G. TEST RESULTS OF RADIATED EMISSION CO-LOCATION	
APPENDIX H. TEST PHOTOS	
PHOTOGRAPHS OF EUT V01	



History of this test report

TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-C10 Ver.4.3
FCC ID: 2AIBX-VALUE

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	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: Ben Tseng

Report Producer: Michelle Tsai

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	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

Note:

- ♦ Bluetooth LE uses a GFSK (1Mbps/2Mbps) modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	LITEON	WCBN3602M_ANT	Printed Ant	N/A	2.4G+BT

Ant.	Port	Gain (dBi)	
		2.4G	BT
1	1	1.9	1.9

For 2.4GHz function:

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

Ant. 1 (port 1) could transmit/receive.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 1 (port 1) could transmit/receive.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From Test Fixture		
EUT Function	☒ Point-to-multipoint	☐ Point-to-point	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.:	...	
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:	...	
☐	Other:		

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
BT-LE(1Mbps)	0.624	2.05	390.313u	3k
BT-LE(2Mbps)	0.331	4.8	207.188u	5k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

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

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

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.) TEL: 886-3-327-3456 FAX: 886-3-327-0973			
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Lego Lin	21.8~23.9°C / 53~57%	10/Apr/2025
RF Conducted	TH07-HY	Peng Huang	23.6~24.0°C / 53~57%	27/Mar/2025
Radiated	03CH03-HY	Ian Liou	22.2~23.4°C / 49~52%	25/Mar/2025~26/Mar/2025
Radiated (Co-Location)	03CH02-HY	Daniel Lin	23~25°C / 29~52%	25/Mar/2025
☐ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: 886-3-318-0787 FAX: 886-3-318-0287			
Test site Designation No. TW0008 with FCC.				

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
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	DOS 6.1
-----------------------	---------

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	12
2440MHz	12
2480MHz	12
BT-LE(2Mbps)	-
2402MHz	12
2440MHz	12
2480MHz	12

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
1	Fixture Mode

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		
1	Fixture Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	Bluetooth+WLAN 2.4GHz
Refer to Sporton Test Report No.: FA522808 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

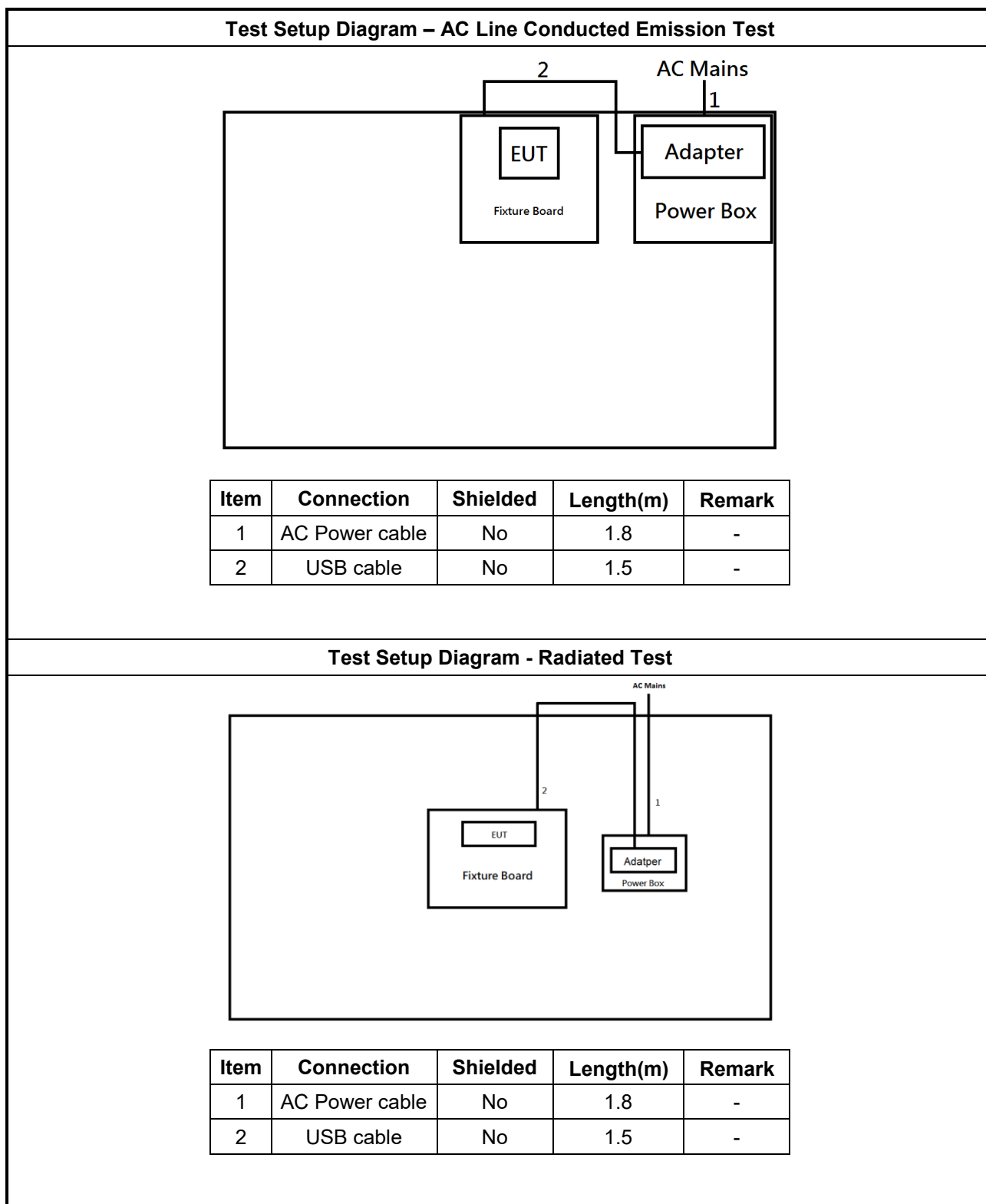
2.3 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	USB cable	UGREEN	60137	-	-
2	Adapter	ASUS	AD83531	-	-
3	Fixture Board	LITEON	WCBN3602M EVB	-	Provided by Customer

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Fixture	NA	NA	-	-
4	Fixture Board	LITEON	WCBN3602M EVB	-	-
5	Adapter	Phihong	PSAI10R-050Q	-	-
6	USB cable	Hawk	04-HTE120	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	USB cable	UGREEN	60137	-	-
2	Adapter	Shenzhen Sonida	S531	-	-
3	Fixture Board	LITEON	WCBN3602M EVB	-	Provided by Customer

2.4 Test Setup Diagram



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 foray power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

Page Number : 13 of 24
Issued Date : Jun. 03, 2025
Report Version : 01

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

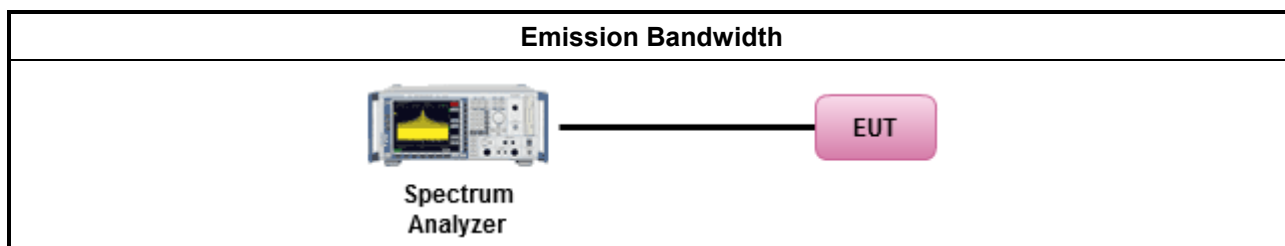
3.2.2 Measuring Instruments

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 KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	Refer as ANSI C63.10, clause 6.9.3 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
e.i.r.p. Power Limit:	
	2400-2483.5 MHz Band
	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	Smart antenna system (SAS)
	- Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ 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.	

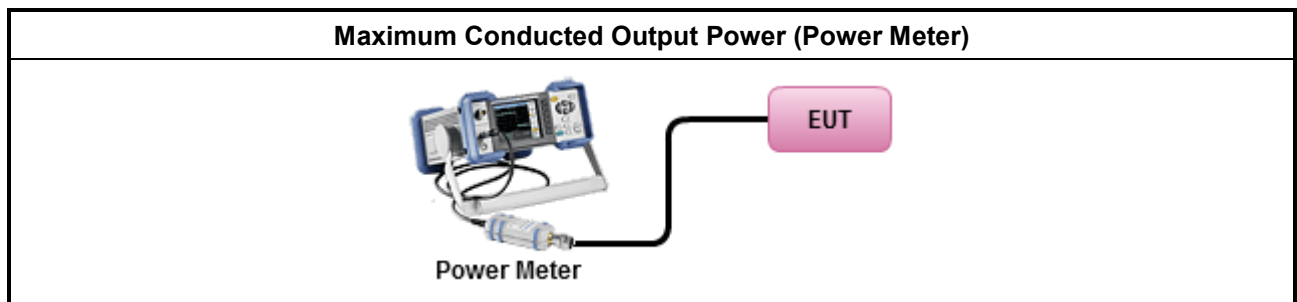
3.3.2 Measuring Instruments

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 KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
Maximum Average Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as 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

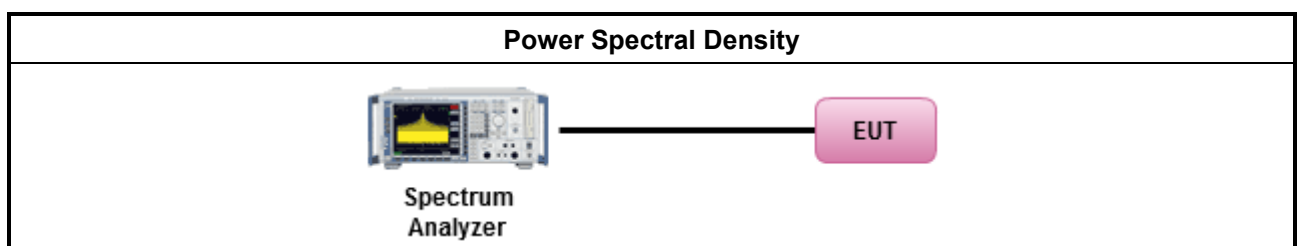
3.4.2 Measuring Instruments

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 KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
- For conducted measurement. - If The EUT supports multiple transmit chains using options given below: - Measure and sum the spectra across the outputs. Refer as 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.

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 (dB)
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 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 level.	

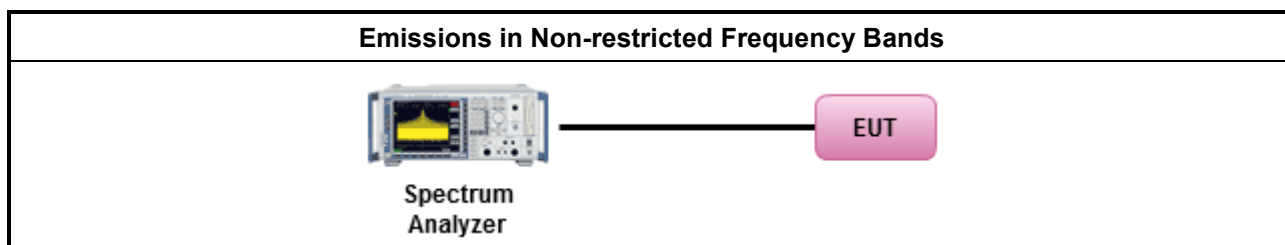
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency 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

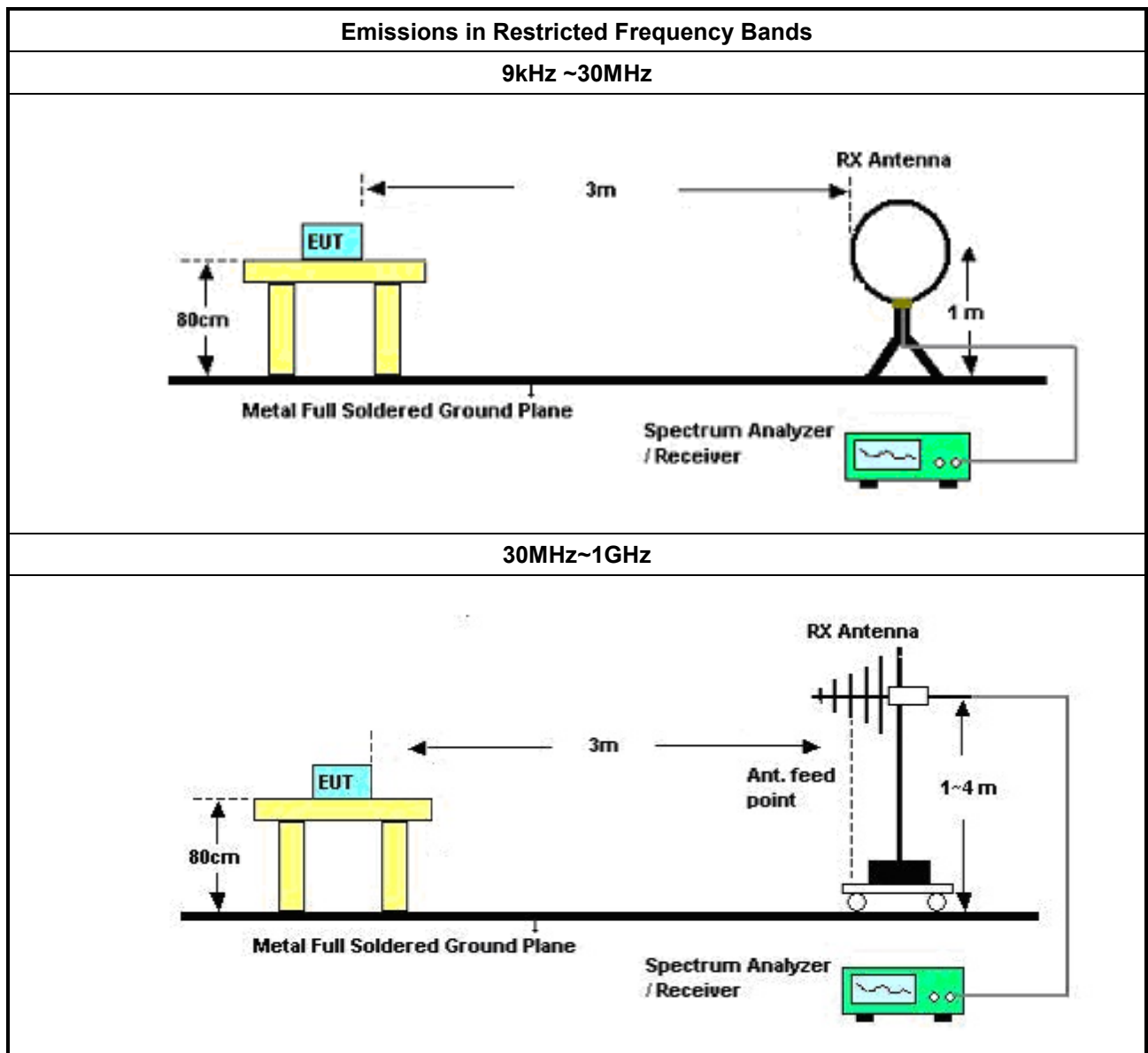
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as KDB 558074 clause 8.7.1, 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 KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

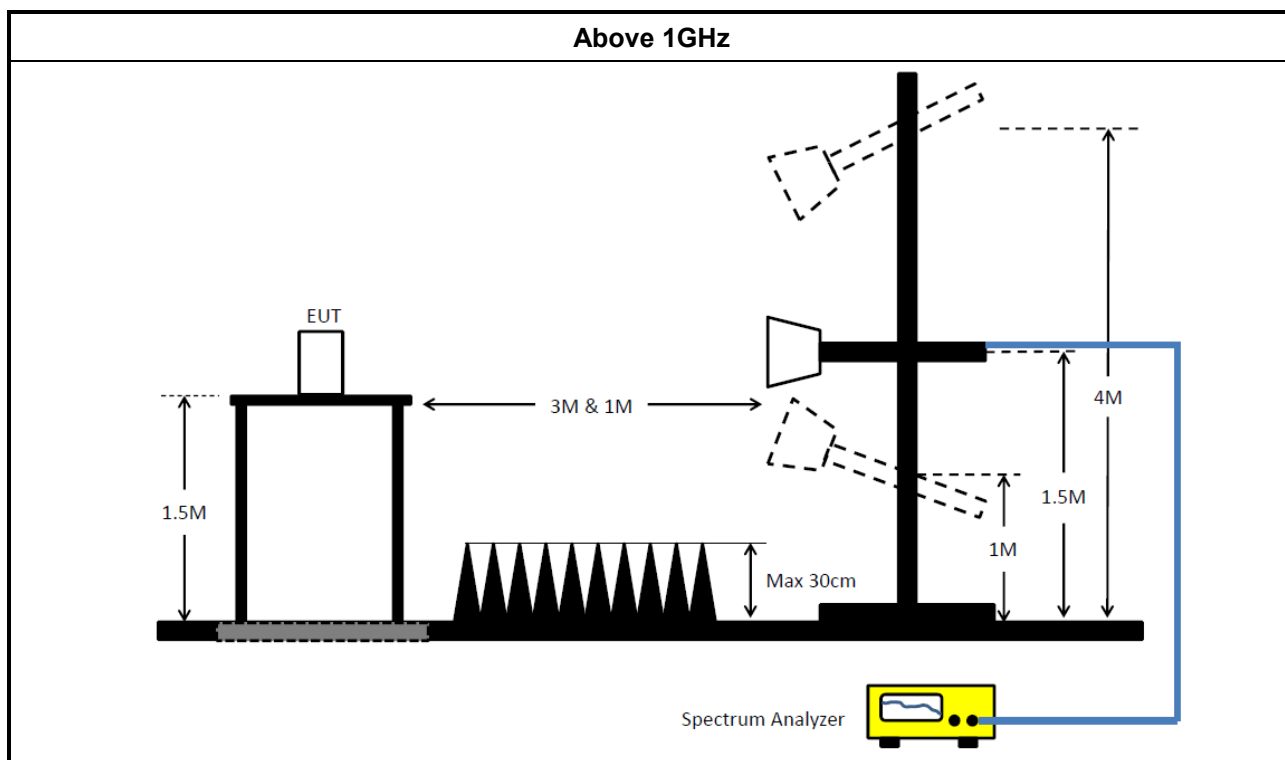
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.6.5 Test Setup





3.6.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	17/May/2024	16/May/2025
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101578	9kHz ~ 30MHz	11/Oct/2024	10/Oct/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
Software	Sporton	SENSE-EMI	V5.11.3	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	10Hz~40GHz	23/Jan/2025	22/Jan/2026
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	18/Dec/2024	17/Dec/2025
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	18/Dec/2024	17/Dec/2025
SENSE-15247_FS	Sporton	V5.11.23	N/A	N/A	N/A	N/A

Instrument for Radiated Test (Co-Location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Site V.S.W.R	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3M	14/Jul/2024	13/Jul/2025
Signal Analyzer	R&S	FSP 40	100305	9kHz~40GHz	18/Mar/2025	17/Mar/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	23/Sep/2024	22/Sep/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	04/Jun/2024	03/Jun/2025
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX 104	03CH02-cable-01	1GHz~40GHz	13/Feb/2025	12/Feb/2026
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	01/Oct/2024	30/Sep/2025
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~40GHz	19/Apr/2024	18/Apr/2025
SENSE-EMI	Sporton	V5.11.9	N/A	N/A	N/A	N/A

**Instrument for Radiated Test (03CH03-HY)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	14/Jul/2024	13/Jul/2025
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	14/Jul/2024	13/Jul/2025
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	03/May/2024	02/May/2025
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	01/Nov/2024	31/Oct/2025
Loop Antenna	TESEQ	HLA 6121	65417	9kHz~30MHz	17/Oct/2024	16/Oct/2025
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMCI	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	14/Oct/2024	13/Oct/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz~18GHz	18/Oct/2024	17/Oct/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	04/Jun/2024	03/Jun/2025
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	12/Jun/2024	11/Jun/2025
RF Cable-R03m	Jye Bao	RG142	03CH03-cable-02	30MHz~1GHz	12/Jun/2024	11/Jun/2025
RF CABLE 5+8m	HUBER+SUHNER	SUOFLEX_104	03CH03-cable-03	1GHz~40GHz	19/Feb/2025	18/Feb/2026
Amplifier	Aglient	8447D	2944A08033	100kHz~1.3GHz	13/Sep/2024	12/Sep/2025
Microwave Premplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	25/Jul/2024	24/Jul/2025
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	19/Apr/2024	18/Apr/2025
SENSE-15407_FS	Sporton	V5.11.23	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

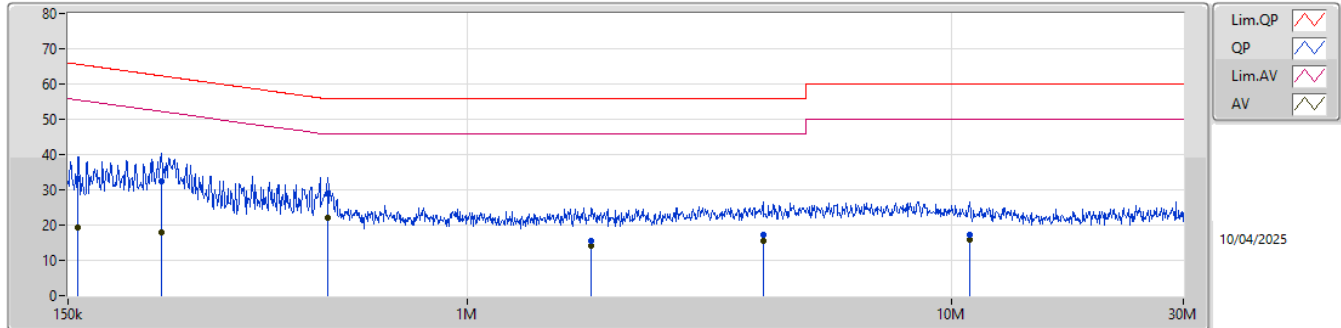
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	504.824k	26.31	46.00	-19.69	Neutral

Result

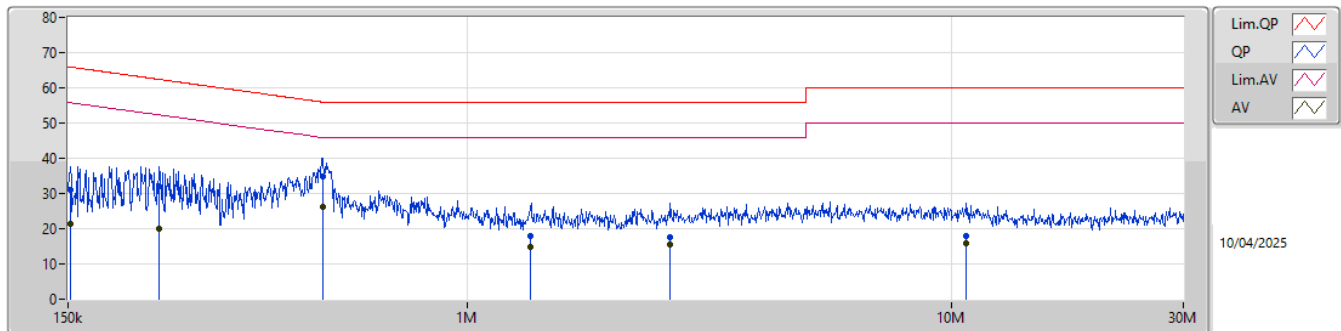
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	157.361k	33.21	65.60	-32.39	Line
Mode 1	Pass	AV	157.361k	19.46	55.60	-36.14	Line
Mode 1	Pass	QP	233.633k	32.33	62.31	-29.98	Line
Mode 1	Pass	AV	233.633k	17.97	52.31	-34.34	Line
Mode 1	Pass	QP	515.002k	28.91	56.00	-27.09	Line
Mode 1	Pass	AV	515.002k	22.17	46.00	-23.83	Line
Mode 1	Pass	QP	1.804M	15.66	56.00	-40.34	Line
Mode 1	Pass	AV	1.804M	14.19	46.00	-31.81	Line
Mode 1	Pass	QP	4.073M	17.36	56.00	-38.64	Line
Mode 1	Pass	AV	4.073M	15.60	46.00	-30.40	Line
Mode 1	Pass	QP	10.873M	17.20	60.00	-42.80	Line
Mode 1	Pass	AV	10.873M	15.70	50.00	-34.30	Line
Mode 1	Pass	QP	151.807k	31.12	65.90	-34.78	Neutral
Mode 1	Pass	AV	151.807k	21.41	55.90	-34.49	Neutral
Mode 1	Pass	QP	231.775k	32.13	62.39	-30.26	Neutral
Mode 1	Pass	AV	231.775k	19.83	52.39	-32.56	Neutral
Mode 1	Pass	QP	504.824k	34.96	56.00	-21.04	Neutral
Mode 1	Pass	AV	504.824k	26.31	46.00	-19.69	Neutral
Mode 1	Pass	QP	1.353M	17.84	56.00	-38.16	Neutral
Mode 1	Pass	AV	1.353M	14.96	46.00	-31.04	Neutral
Mode 1	Pass	QP	2.625M	17.50	56.00	-38.50	Neutral
Mode 1	Pass	AV	2.625M	15.54	46.00	-30.46	Neutral
Mode 1	Pass	QP	10.701M	17.82	60.00	-42.18	Neutral
Mode 1	Pass	AV	10.701M	16.03	50.00	-33.97	Neutral

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	157.361k	33.21	65.60	-32.39	20.04	Line	-	13.17	10.06	0.01	9.97						
AV	157.361k	19.46	55.60	-36.14	20.04	Line	-	-0.58	10.06	0.01	9.97						
QP	233.633k	32.33	62.31	-29.98	19.72	Line	-	12.61	9.74	0.01	9.97						
AV	233.633k	17.97	52.31	-34.34	19.72	Line	-	-1.75	9.74	0.01	9.97						
QP	515.002k	28.91	56.00	-27.09	20.06	Line	-	8.85	10.04	0.04	9.98						
AV	515.002k	22.17	46.00	-23.83	20.06	Line	-	2.11	10.04	0.04	9.98						
QP	1.804M	15.66	56.00	-40.34	19.73	Line	-	-4.07	9.73	0.03	9.97						
AV	1.804M	14.19	46.00	-31.81	19.73	Line	-	-5.54	9.73	0.03	9.97						
QP	4.073M	17.36	56.00	-38.64	19.72	Line	-	-2.36	9.69	0.05	9.98						
AV	4.073M	15.60	46.00	-30.40	19.72	Line	-	-4.12	9.69	0.05	9.98						
QP	10.873M	17.20	60.00	-42.80	19.93	Line	-	-2.73	9.70	0.25	9.98						
AV	10.873M	15.70	50.00	-34.30	19.93	Line	-	-4.23	9.70	0.25	9.98						

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	151.807k	31.12	65.90	-34.78	19.93	Neutral	-	11.19	9.95	0.01	9.97						
AV	151.807k	21.41	55.90	-34.49	19.93	Neutral	-	1.48	9.95	0.01	9.97						
QP	231.775k	32.13	62.39	-30.26	19.75	Neutral	-	12.38	9.77	0.01	9.97						
AV	231.775k	19.83	52.39	-32.56	19.75	Neutral	-	0.08	9.77	0.01	9.97						
QP	504.824k	34.96	56.00	-21.04	20.07	Neutral	-	14.89	10.05	0.04	9.98						
AV	504.824k	26.31	46.00	-19.69	20.07	Neutral	-	6.24	10.05	0.04	9.98						
QP	1.353M	17.84	56.00	-38.16	19.78	Neutral	-	-1.94	9.76	0.04	9.98						
AV	1.353M	14.96	46.00	-31.04	19.78	Neutral	-	-4.82	9.76	0.04	9.98						
QP	2.625M	17.50	56.00	-38.50	19.71	Neutral	-	-2.21	9.70	0.04	9.97						
AV	2.625M	15.54	46.00	-30.46	19.71	Neutral	-	-4.17	9.70	0.04	9.97						
QP	10.701M	17.82	60.00	-42.18	19.95	Neutral	-	-2.13	9.72	0.25	9.98						
AV	10.701M	16.03	50.00	-33.97	19.95	Neutral	-	-3.92	9.72	0.25	9.98						



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)	728.75k	1.034M	1M03F1D	662.5k	1.026M
BT-LE(2Mbps)	1.373M	2.055M	2M06F1D	730k	2.036M

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

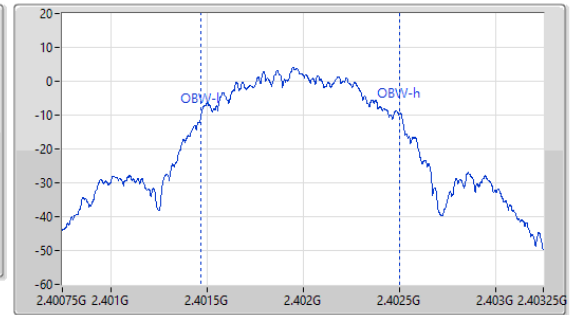
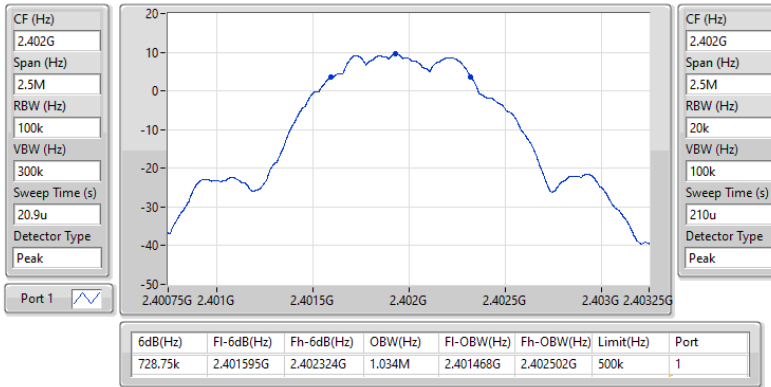
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	728.75k	1.034M
2440MHz	Pass	500k	662.5k	1.031M
2480MHz	Pass	500k	687.5k	1.026M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.348M	2.044M
2440MHz	Pass	500k	1.373M	2.036M
2480MHz	Pass	500k	730k	2.055M

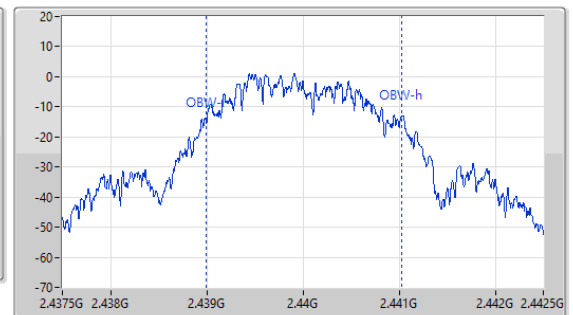
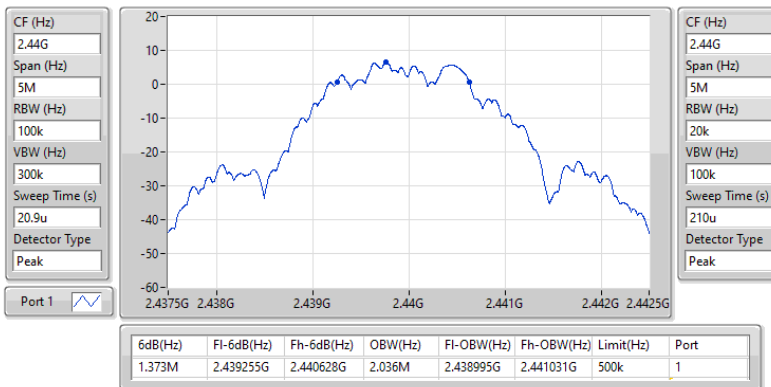
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

27/03/2025


2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2440MHz

27/03/2025





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	11.30	0.01349
BT-LE(2Mbps)	11.05	0.01274

**Result**

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.90	11.22	30.00
2440MHz	Pass	1.90	11.27	30.00
2480MHz	Pass	1.90	11.30	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.90	10.84	30.00
2440MHz	Pass	1.90	11.05	30.00
2480MHz	Pass	1.90	11.02	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)	-4.00
BT-LE(2Mbps)	-6.92

RBW = 3kHz;

**Result**

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.90	-4.63	8.00
2440MHz	Pass	1.90	-4.48	8.00
2480MHz	Pass	1.90	-4.00	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.90	-7.25	8.00
2440MHz	Pass	1.90	-6.92	8.00
2480MHz	Pass	1.90	-7.53	8.00

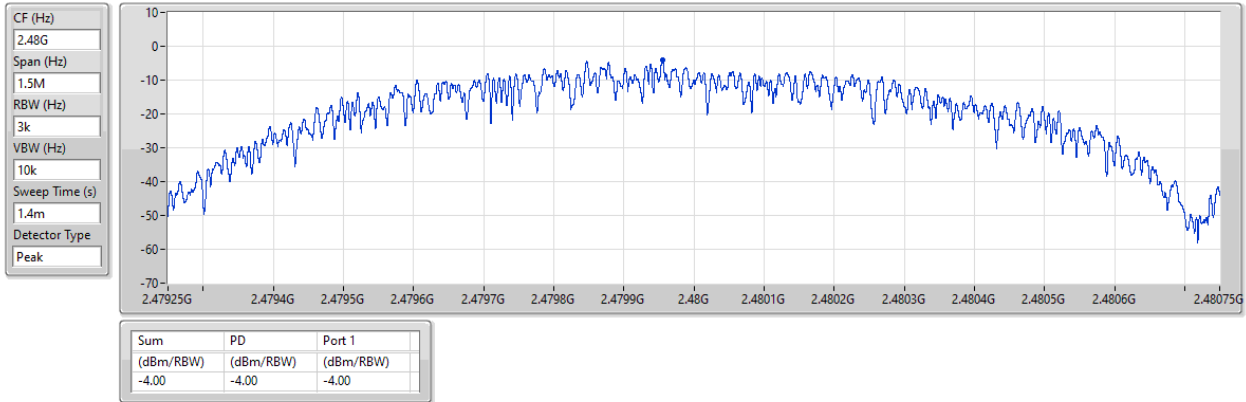
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2480MHz

27/03/2025

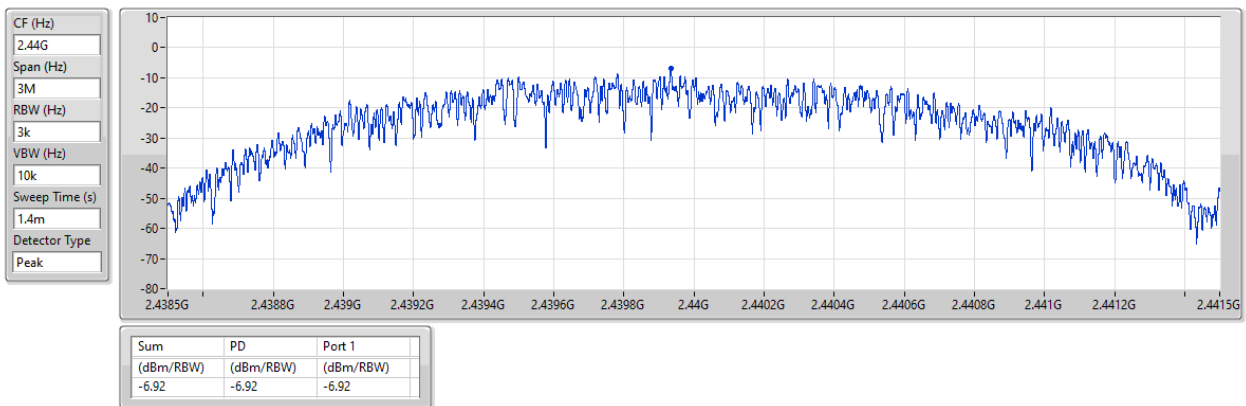


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

27/03/2025



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	2.43991G	10.85	-19.15	2.11798G	-55.28	2.4G	-48.13	2.4G	-49.15	2.50226G	-55.14	21.82518G	-45.19	1
BT-LE(2Mbps)	Pass	2.43941G	10.90	-19.10	2.09918G	-56.20	2.4G	-20.59	2.4G	-22.08	2.50246G	-55.56	21.55522G	-45.48	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	2.43991G	10.85	-19.15	2.11798G	-55.28	2.4G	-48.13	2.4G	-49.15	2.50226G	-55.14	21.82518G	-45.19	1
2440MHz	Pass	2.43991G	10.85	-19.15	2.1779G	-55.32	2.39072G	-55.31	2.4G	-56.41	2.50198G	-56.59	21.5496G	-45.17	1
2480MHz	Pass	2.43991G	10.85	-19.15	2.14618G	-54.86	2.39124G	-54.96	2.4G	-56.24	2.5021G	-56.32	21.99391G	-45.20	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.43941G	10.90	-19.10	2.09918G	-56.20	2.4G	-20.59	2.4G	-22.08	2.50246G	-55.56	21.55522G	-45.48	1
2440MHz	Pass	2.43941G	10.90	-19.10	2.192G	-55.13	2.39472G	-54.39	2.4G	-57.41	2.5035G	-55.35	21.96016G	-44.38	1
2480MHz	Pass	2.43941G	10.90	-19.10	2.30715G	-54.61	2.39768G	-54.99	2.4G	-56.75	2.50174G	-55.29	21.51867G	-44.51	1

2.4-2.4835GHz_BT-LE(1Mbps)

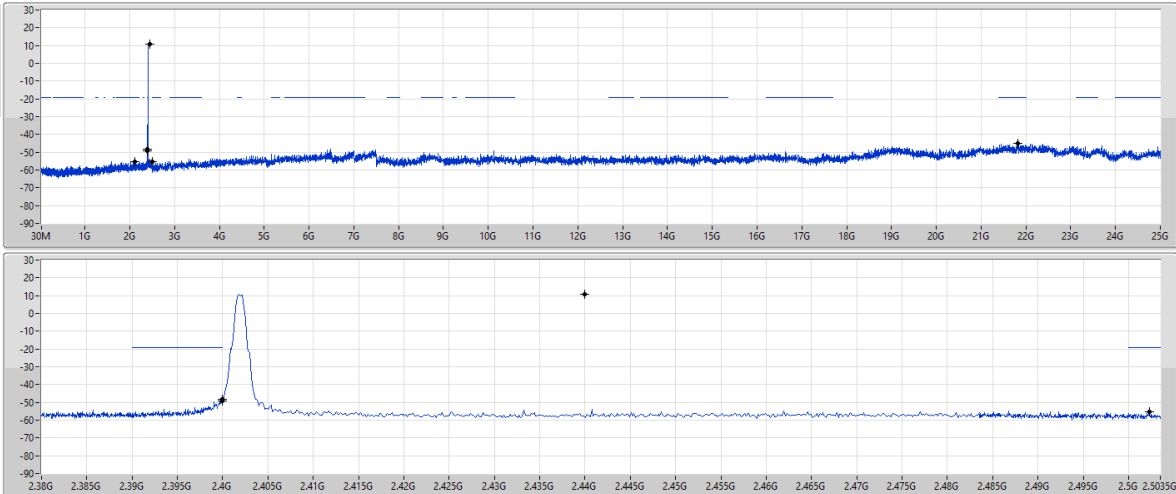
CSEndB-DTS

2402MHz

27/03/2025

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
2.43991G	10.85	-19.15	2.11798G	-55.28	2.4G	-48.13	2.4G	-49.15	2.50226G	-55.14	21.82518G	-45.19	1

2.4-2.4835GHz_BT-LE(2Mbps)

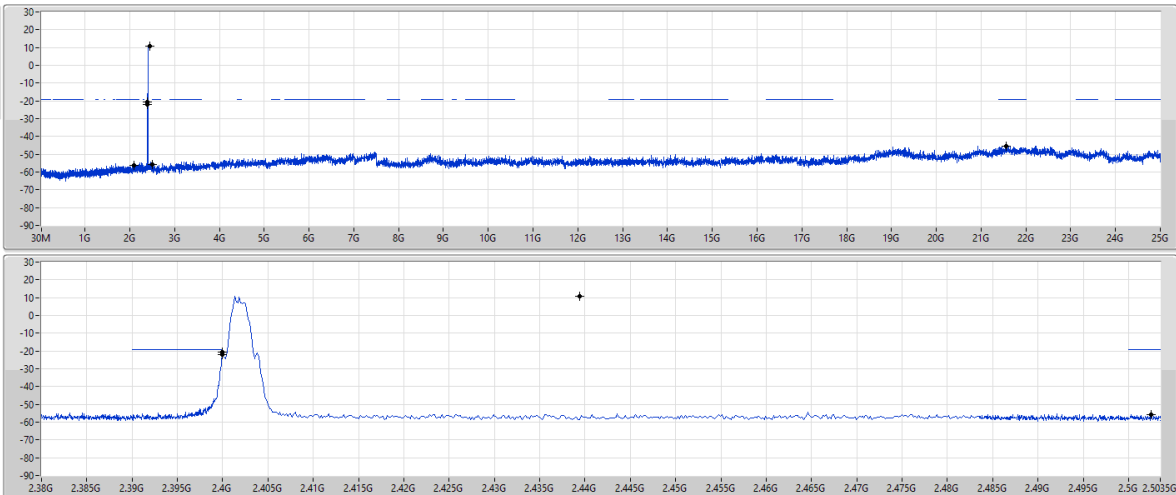
CSEndB-DTS

2402MHz

27/03/2025

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
2.43941G	10.90	-19.10	2.09918G	-56.20	2.4G	-20.39	2.4G	-22.08	2.50246G	-55.56	21.55522G	-45.48	1



Summary

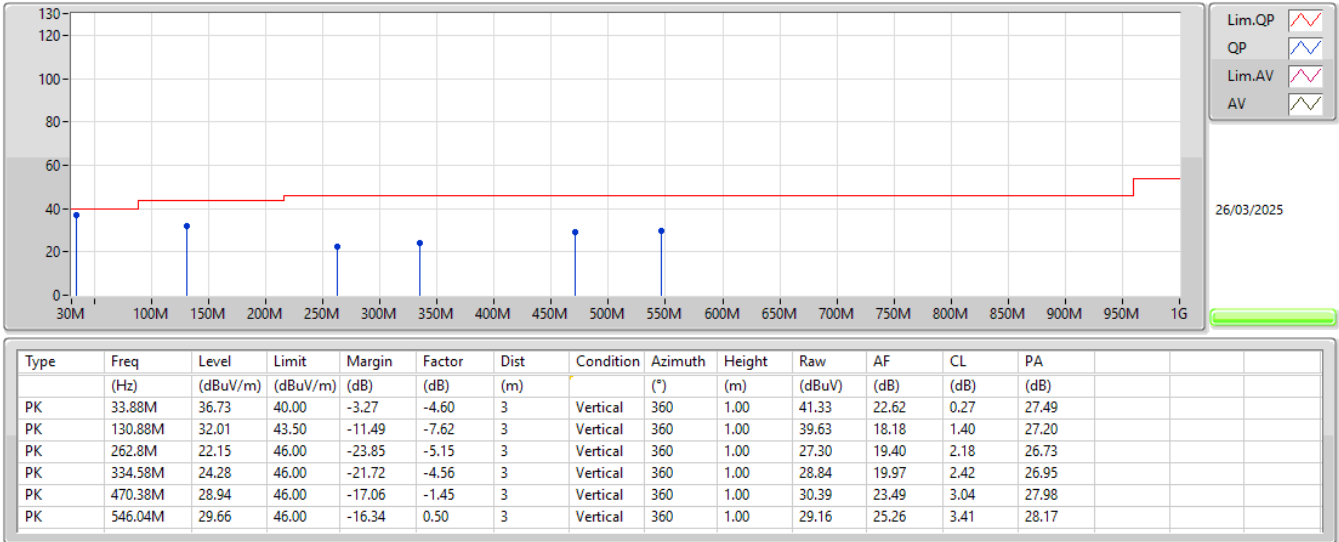
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	33.88M	36.73	40.00	-3.27	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	33.88M	36.73	40.00	-3.27	3	Vertical	360	1.00
2440MHz	Pass	PK	130.88M	32.01	43.50	-11.49	3	Vertical	360	1.00
2440MHz	Pass	PK	262.8M	22.15	46.00	-23.85	3	Vertical	360	1.00
2440MHz	Pass	PK	334.58M	24.28	46.00	-21.72	3	Vertical	360	1.00
2440MHz	Pass	PK	470.38M	28.94	46.00	-17.06	3	Vertical	360	1.00
2440MHz	Pass	PK	546.04M	29.66	46.00	-16.34	3	Vertical	360	1.00
2440MHz	Pass	PK	30M	25.66	40.00	-14.34	3	Horizontal	0	1.00
2440MHz	Pass	PK	109.54M	30.06	43.50	-13.44	3	Horizontal	0	1.00
2440MHz	Pass	PK	159.98M	33.26	43.50	-10.24	3	Horizontal	0	1.00
2440MHz	Pass	PK	276.38M	22.38	46.00	-23.62	3	Horizontal	0	1.00
2440MHz	Pass	PK	371.44M	27.53	46.00	-18.47	3	Horizontal	0	1.00
2440MHz	Pass	PK	540.22M	29.41	46.00	-16.59	3	Horizontal	0	1.00

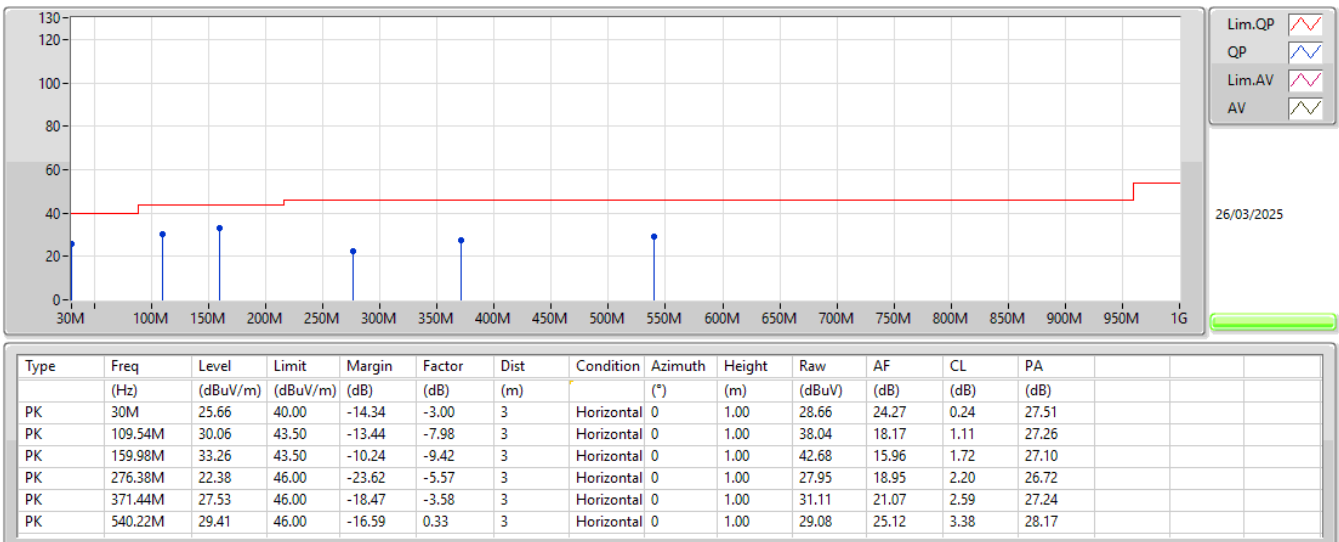
2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_Test Fixture



2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_Test Fixture





Summary

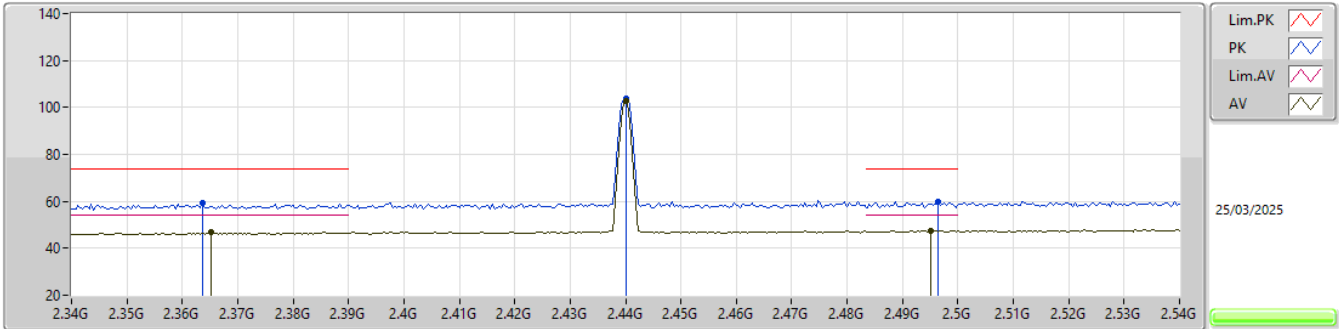
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	AV	2.4952G	47.64	54.00	-6.36	3	Horizontal	98	1.01
BT-LE(2Mbps)	Pass	AV	2.4988G	48.01	54.00	-5.99	3	Horizontal	98	1.49

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3878G	46.62	54.00	-7.38	3	Horizontal	99	1.02
2402MHz	Pass	AV	2.402G	105.42	Inf	-Inf	3	Horizontal	99	1.02
2402MHz	Pass	PK	2.3698G	59.05	74.00	-14.95	3	Horizontal	99	1.02
2402MHz	Pass	PK	2.4018G	106.50	Inf	-Inf	3	Horizontal	99	1.02
2402MHz	Pass	AV	4.80394G	36.53	54.00	-17.47	3	Vertical	70	1.20
2402MHz	Pass	PK	4.80323G	48.55	74.00	-25.45	3	Vertical	70	1.20
2402MHz	Pass	AV	4.80411G	36.17	54.00	-17.83	3	Horizontal	325	1.23
2402MHz	Pass	PK	4.80447G	47.87	74.00	-26.13	3	Horizontal	325	1.23
2440MHz	Pass	AV	2.3652G	46.71	54.00	-7.29	3	Horizontal	98	1.01
2440MHz	Pass	AV	2.44G	102.95	Inf	-Inf	3	Horizontal	98	1.01
2440MHz	Pass	AV	2.4952G	47.64	54.00	-6.36	3	Horizontal	98	1.01
2440MHz	Pass	PK	2.3636G	59.15	74.00	-14.85	3	Horizontal	98	1.01
2440MHz	Pass	PK	2.44G	103.98	Inf	-Inf	3	Horizontal	98	1.01
2440MHz	Pass	PK	2.4964G	59.67	74.00	-14.33	3	Horizontal	98	1.01
2440MHz	Pass	AV	4.87958G	36.67	54.00	-17.33	3	Vertical	52	2.45
2440MHz	Pass	PK	4.87971G	48.23	74.00	-25.77	3	Vertical	52	2.45
2440MHz	Pass	AV	4.87979G	36.48	54.00	-17.52	3	Horizontal	322	1.00
2440MHz	Pass	PK	4.88194G	47.83	74.00	-26.17	3	Horizontal	322	1.00
2480MHz	Pass	AV	2.48G	103.38	Inf	-Inf	3	Horizontal	98	1.35
2480MHz	Pass	AV	2.4862G	47.41	54.00	-6.59	3	Horizontal	98	1.35
2480MHz	Pass	PK	2.4802G	104.44	Inf	-Inf	3	Horizontal	98	1.35
2480MHz	Pass	PK	2.484G	60.14	74.00	-13.86	3	Horizontal	98	1.35
2480MHz	Pass	AV	4.9597G	37.28	54.00	-16.72	3	Vertical	47	1.31
2480MHz	Pass	PK	4.95995G	48.71	74.00	-25.29	3	Vertical	47	1.31
2480MHz	Pass	AV	4.95977G	37.15	54.00	-16.85	3	Horizontal	11	1.02
2480MHz	Pass	PK	4.95978G	48.85	74.00	-25.15	3	Horizontal	11	1.02
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3858G	47.71	54.00	-6.29	3	Horizontal	100	1.00
2402MHz	Pass	AV	2.402G	102.85	Inf	-Inf	3	Horizontal	100	1.00
2402MHz	Pass	PK	2.3664G	58.84	74.00	-15.16	3	Horizontal	100	1.00
2402MHz	Pass	PK	2.4014G	105.76	Inf	-Inf	3	Horizontal	100	1.00
2402MHz	Pass	AV	4.80297G	35.82	54.00	-18.18	3	Vertical	134	3.00
2402MHz	Pass	PK	4.80302G	47.35	74.00	-26.65	3	Vertical	134	3.00
2402MHz	Pass	AV	4.80296G	36.29	54.00	-17.71	3	Horizontal	325	1.07
2402MHz	Pass	PK	4.80479G	47.52	74.00	-26.48	3	Horizontal	325	1.07
2440MHz	Pass	AV	2.3672G	47.39	54.00	-6.61	3	Horizontal	97	1.26
2440MHz	Pass	AV	2.44G	102.04	Inf	-Inf	3	Horizontal	97	1.26
2440MHz	Pass	AV	2.4912G	47.88	54.00	-6.12	3	Horizontal	97	1.26
2440MHz	Pass	PK	2.3512G	59.72	74.00	-14.28	3	Horizontal	97	1.26
2440MHz	Pass	PK	2.4404G	104.91	Inf	-Inf	3	Horizontal	97	1.26
2440MHz	Pass	PK	2.4904G	59.98	74.00	-14.02	3	Horizontal	97	1.26
2440MHz	Pass	AV	4.87887G	36.80	54.00	-17.20	3	Vertical	65	1.00
2440MHz	Pass	PK	4.87934G	47.75	74.00	-26.25	3	Vertical	65	1.00
2440MHz	Pass	AV	4.87904G	36.81	54.00	-17.19	3	Horizontal	323	1.00
2440MHz	Pass	PK	4.88007G	48.12	74.00	-25.88	3	Horizontal	323	1.00
2480MHz	Pass	AV	2.48G	99.17	Inf	-Inf	3	Horizontal	98	1.49
2480MHz	Pass	AV	2.4988G	48.01	54.00	-5.99	3	Horizontal	98	1.49
2480MHz	Pass	PK	2.4796G	102.03	Inf	-Inf	3	Horizontal	98	1.49
2480MHz	Pass	PK	2.484G	60.25	74.00	-13.75	3	Horizontal	98	1.49
2480MHz	Pass	AV	4.95884G	37.04	54.00	-16.96	3	Vertical	51	1.32
2480MHz	Pass	PK	4.9589G	48.69	74.00	-25.31	3	Vertical	51	1.32
2480MHz	Pass	AV	4.95893G	36.53	54.00	-17.47	3	Horizontal	228	1.27
2480MHz	Pass	PK	4.96102G	48.17	74.00	-25.83	3	Horizontal	228	1.27

2.4-2.4835GHz_BT-LE(1Mbps)

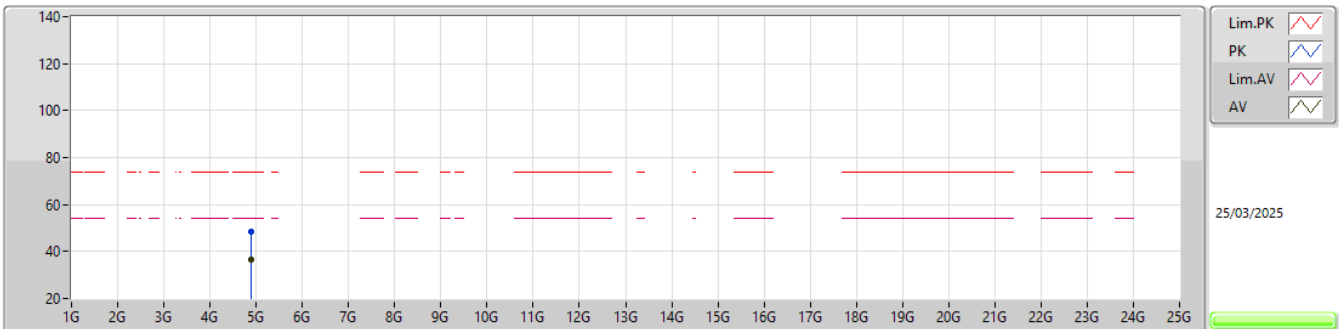
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3652G	46.71	54.00	-7.29	32.73	3	Horizontal	98	1.01	13.98	27.30	5.43	-
AV	2.44G	102.95	Inf	-Inf	33.12	3	Horizontal	98	1.01	69.83	27.60	5.52	-
AV	2.4952G	47.64	54.00	-6.36	33.57	3	Horizontal	98	1.01	14.07	28.00	5.57	-
PK	2.3636G	59.15	74.00	-14.85	32.73	3	Horizontal	98	1.01	26.42	27.30	5.43	-
PK	2.44G	103.98	Inf	-Inf	33.12	3	Horizontal	98	1.01	70.86	27.60	5.52	-
PK	2.4964G	59.67	74.00	-14.33	33.57	3	Horizontal	98	1.01	26.10	28.00	5.57	-

2.4-2.4835GHz_BT-LE(1Mbps)

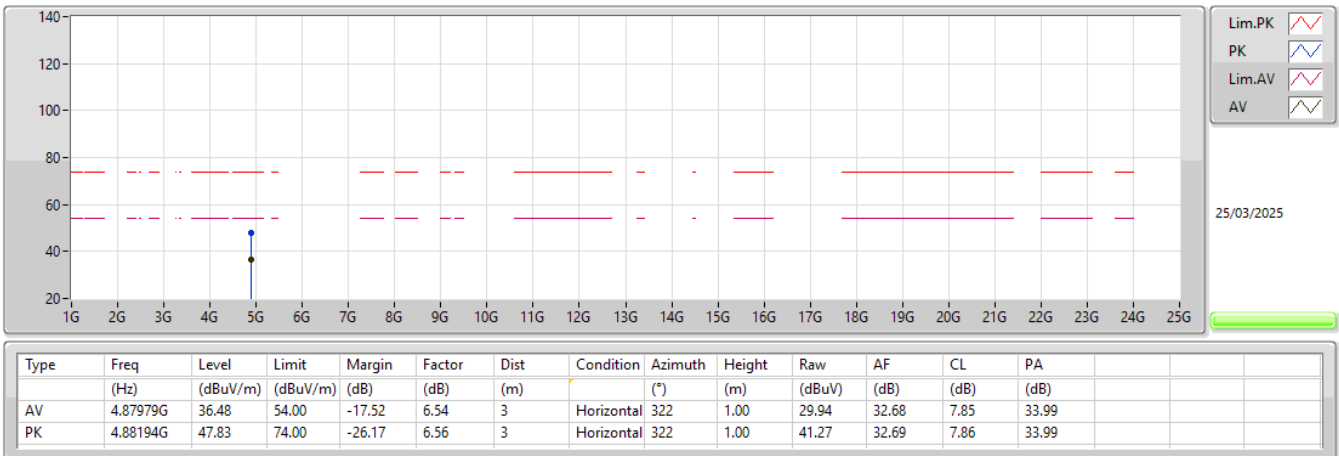
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87958G	36.67	54.00	-17.33	6.54	3	Vertical	52	2.45	30.13	32.68	7.85	33.99
PK	4.87971G	48.23	74.00	-25.77	6.54	3	Vertical	52	2.45	41.69	32.68	7.85	33.99

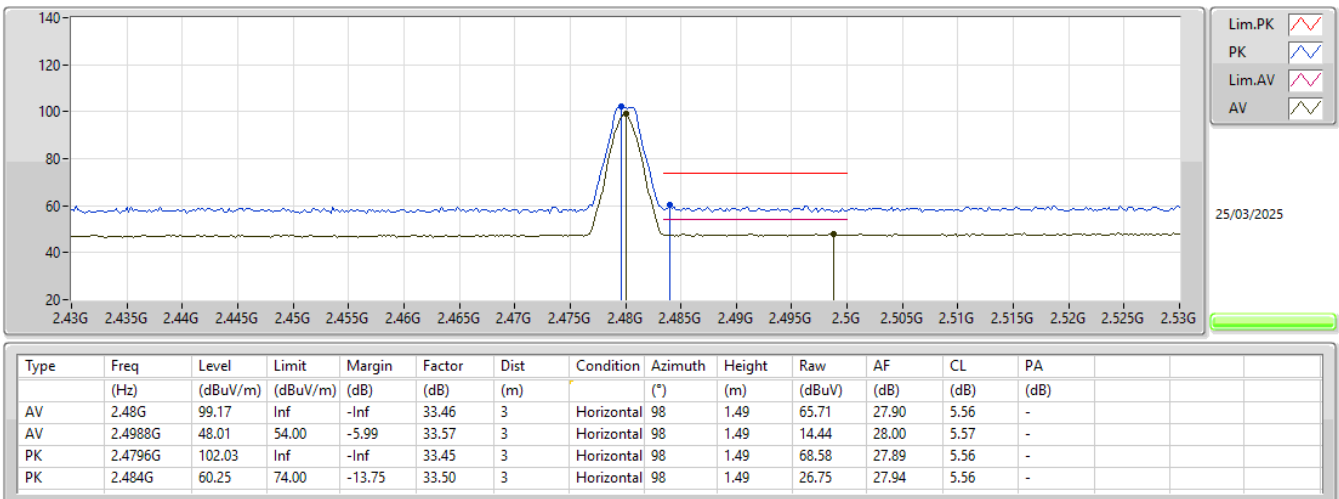
2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX



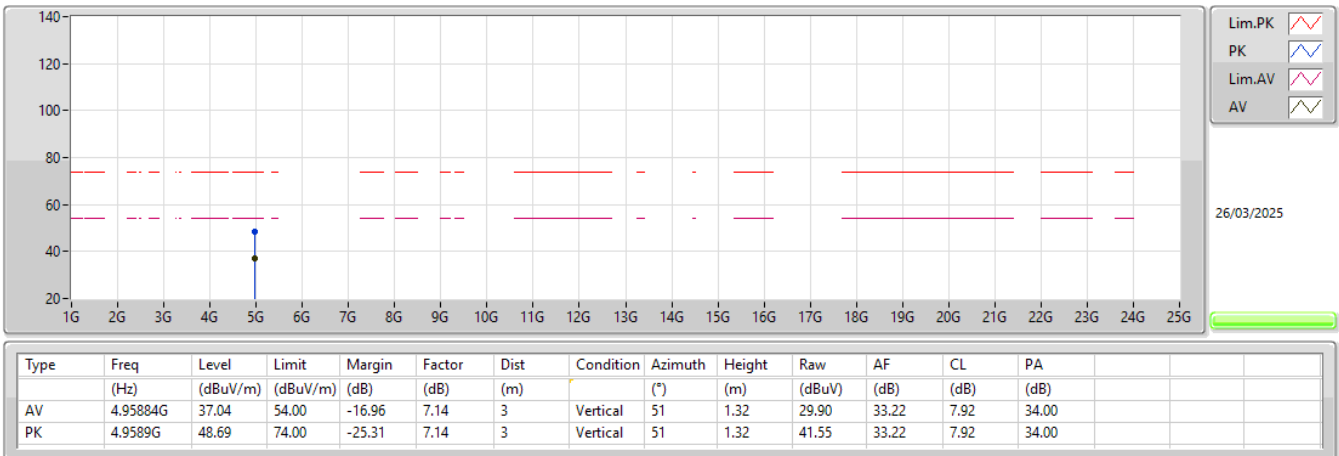
2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



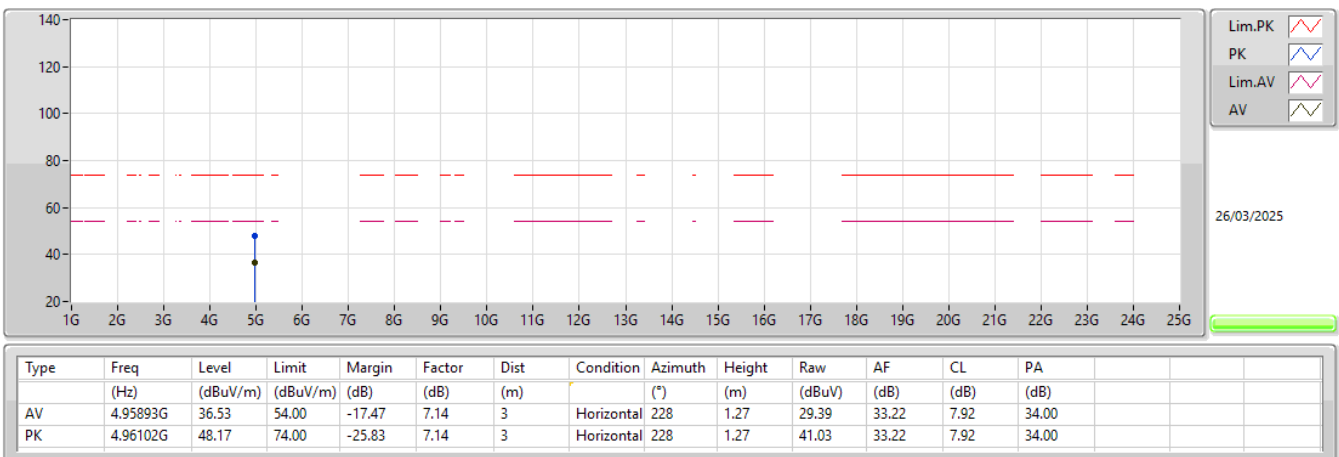
2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX





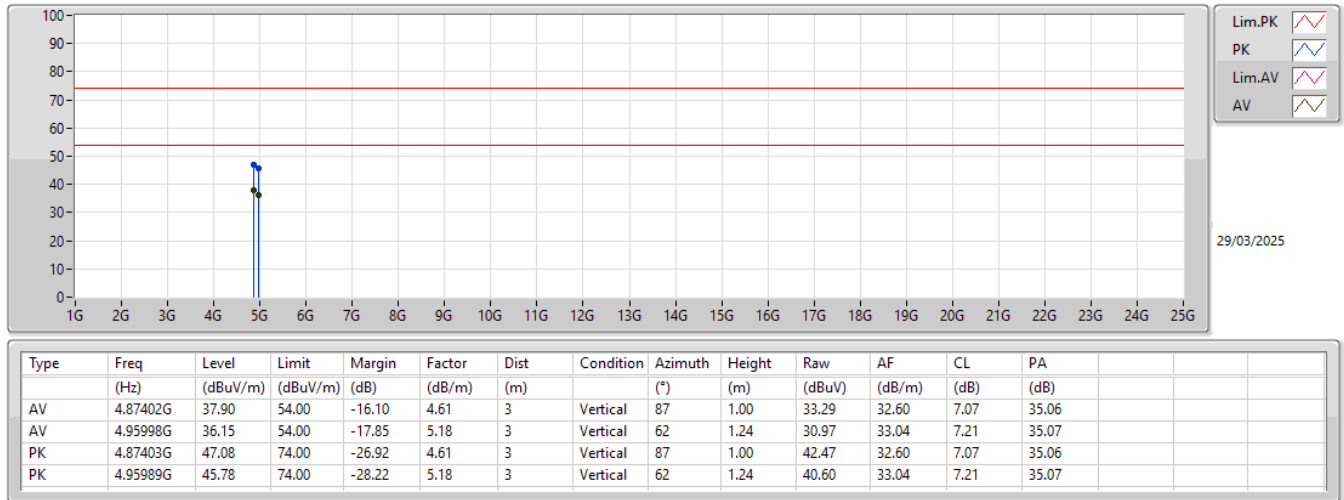
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	4.87402G	37.90	54.00	-16.10	Vertical

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	4.87402G	37.90	54.00	-16.10	3	Vertical	87	1.00	-
Mode 1	Pass	AV	4.95998G	36.15	54.00	-17.85	3	Vertical	62	1.24	-
Mode 1	Pass	PK	4.87403G	47.08	74.00	-26.92	3	Vertical	87	1.00	-
Mode 1	Pass	PK	4.95989G	45.78	74.00	-28.22	3	Vertical	62	1.24	-
Mode 1	Pass	AV	4.87393G	35.22	54.00	-18.78	3	Horizontal	133	1.50	-
Mode 1	Pass	AV	4.95993G	34.46	54.00	-19.54	3	Horizontal	209	2.74	-
Mode 1	Pass	PK	4.87392G	44.82	74.00	-29.18	3	Horizontal	133	1.50	-
Mode 1	Pass	PK	4.95946G	44.38	74.00	-29.62	3	Horizontal	209	2.74	-

Radiated Emissions above 1GHz_Mode 1



Radiated Emissions above 1GHz_Mode 1

