

FCC Radio Test Report

FCC ID : OEOM3228AMRM0
Equipment : ML3228A-GAIA-M3-PE11
Brand Name : TELINK SEMICONDUCTOR (SHANG HAI) CO., LTD.
Model Name : ML3228A-GAIA-M3-PE11
Applicant : Telink Semiconductor (Shanghai) Co., Ltd.
11F, Building 1, 61 Shengxia Road, Pudong District,
Shanghai, China
Manufacturer : Shenzhen Xinghongju Technology Co., LTD
Building 201, No. 48, Pingzi Road, Nienfeng Community,
Pingdi Street, Longgang District, Shenzhen
Standard : 47 CFR FCC Part 15.247

The product was received on Feb. 11, 2026, and testing was started from Mar. 16, 2026 and completed on Mar. 20, 2026. 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 C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 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.)



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History of this test report

[illegible]

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: Ryan Hsiao

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 (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(125kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(500kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

Note:

- ♦ Bluetooth LE uses a GFSK (1Mbps/2Mbps/125kbps/500kbps) modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Support
1	TELINK	ML3228A-GAIA-M0-PE11	PCB	NA	1.4	BT + Zigbee

For BT function:

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

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

For Zigbee:

For IEEE 802.15.4 Zigbee 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)	1	0	20.001m	10Hz (DC>=0.98)
BT-LE(125kbps)	1	0	20.001m	10Hz (DC>=0.98)
BT-LE(500kbps)	1	0	20.001m	10Hz (DC>=0.98)
BT-LE(2Mbps)	1	0	20.001m	10Hz (DC>=0.98)

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 C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024

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	17.5~19.2°C / 57~61%	20/Mar/2026
RF Conducted	TH07-HY	Alan Chien	23.4~23.9°C / 52~55%	16/Mar/2026
☒ Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH26-HY	Aaron Kuo	21.8~22.5°C / 48~51%	16/Mar/2026~18/Mar/2026

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	3.44 dB	Confidence levels of 95%
Conducted Output Power	1.48 dB	Confidence levels of 95%
Bandwidth	0.05 MHz	Confidence levels of 95%
Conducted Emission	1.48 dB	Confidence levels of 95%
Power Spectral Density	1.22 dB	Confidence levels of 95%
Radiated Emission (9 kHz ~ 30 MHz)	2.9 dB	Confidence levels of 95%
Radiated Emission (30 MHz ~ 1 GHz)	5.64 dB	Confidence levels of 95%
Radiated Emission (1 GHz ~ 18 GHz)	5.02 dB	Confidence levels of 95%
Radiated Emission (18 GHz ~ 40 GHz)	5.28 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	BDT_v5.8.5
------------------------------	------------

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	10
2440MHz	10
2480MHz	10
BT-LE(2Mbps)	-
2402MHz	10
2440MHz	10
2480MHz	10
BT-LE(125kbps)	-
2402MHz	10
2440MHz	10
2480MHz	10
BT-LE(500kbps)	-
2402MHz	10
2440MHz	10
2480MHz	10

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

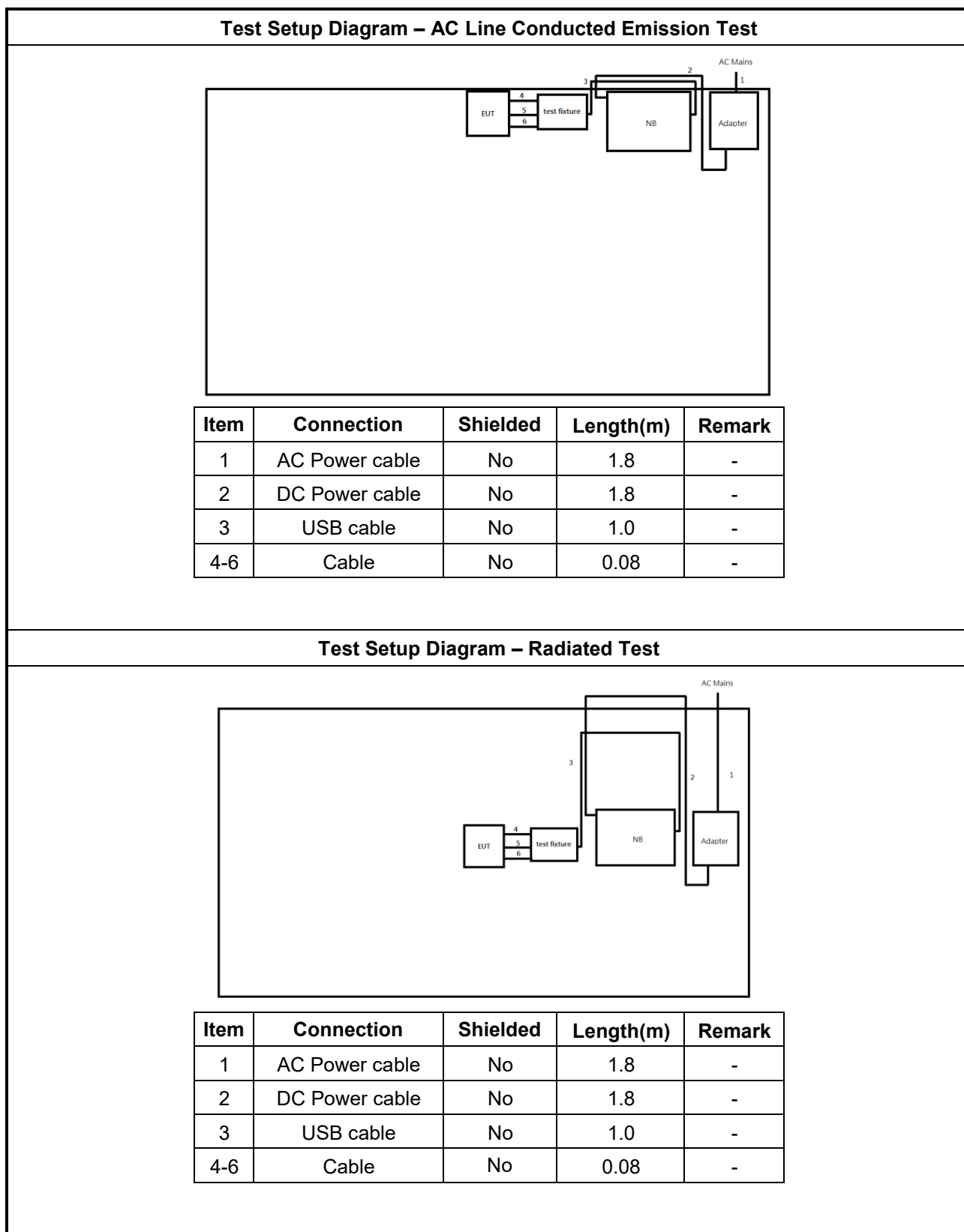
2.3 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Power cable	Power sync	TPCMRN0018	-	-
2	Adapter for NB	DELL	AA90PM111	-	-
3	USB Cable	JingChe Electronic Technology	Mini USB CABLE L=1M	-	-
4	Notebook	DELL	Latitude 7290	-	-
5	test fixture	Telink	Programmer V3.0	-	-
6	Cable	Xiangyu	AV7	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Programmer V1.0-V3.0	Telink	Programmer V3.0	-	-
4	USB Cable	JingChe Electronic Technology	Mini USB CABLE L=1M	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Power cable	Power sync	TPCMRN0018	-	-
2	Adapter for NB	DELL	AA90PM111	-	-
3	USB Cable	JingChe Electronic Technology	Mini USB CABLE L=1M	-	-
4	Notebook	DELL	Latitude 7290	-	-
5	test fixture	Telink	Programmer V3.0	-	-
6	Cable	Xiangyu	AV7	-	-

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

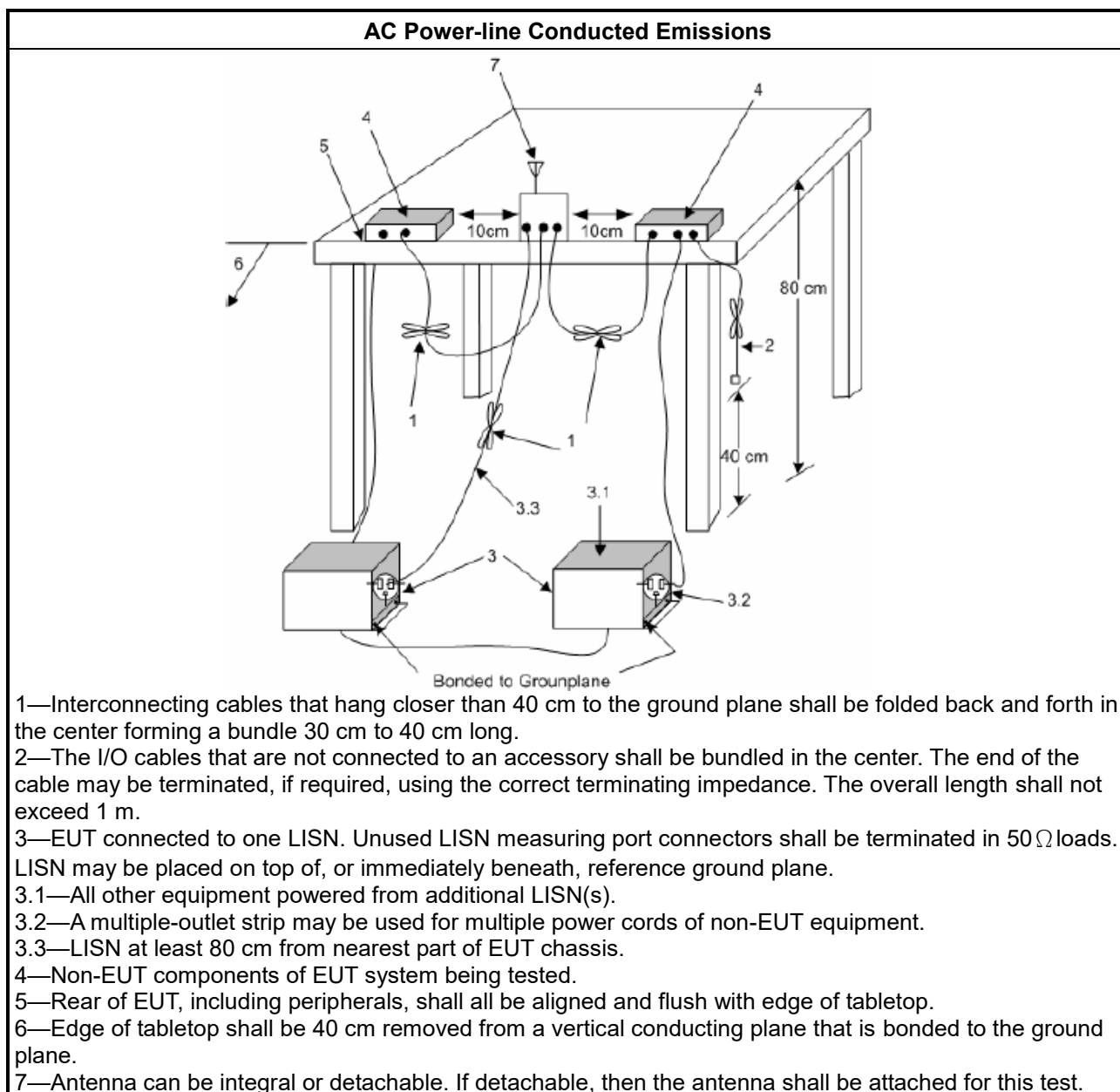
Test Method
Refer as ANSI C63.10, clause 6.2 foray power-line conducted emissions.

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).

3.1.5 Test Setup



3.1.6 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.

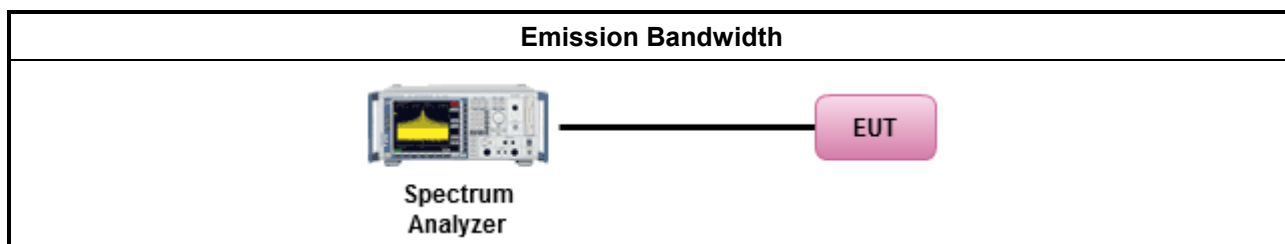
3.2.2 Measuring Instruments

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 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.	

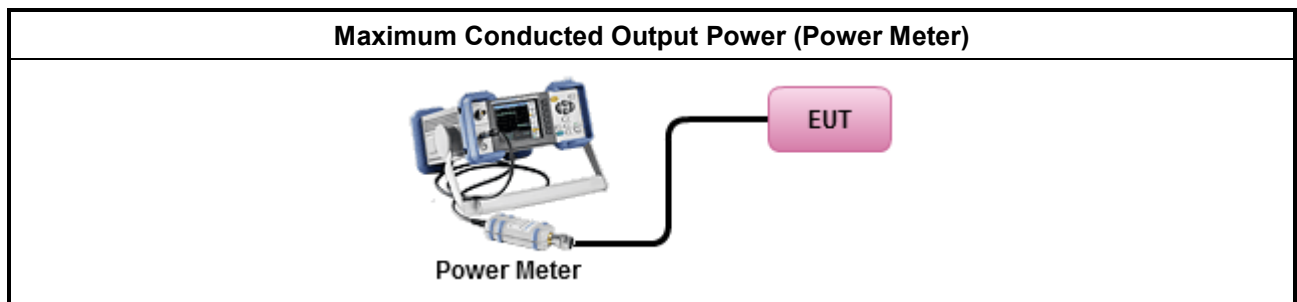
3.3.2 Measuring Instruments

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 integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.2 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

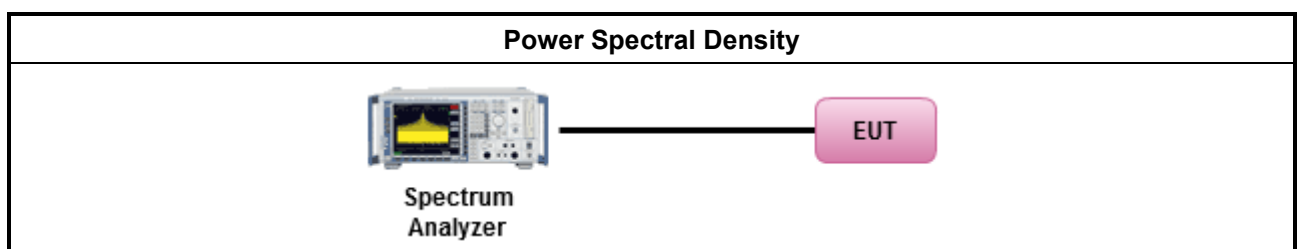
3.4.2 Measuring Instruments

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.	

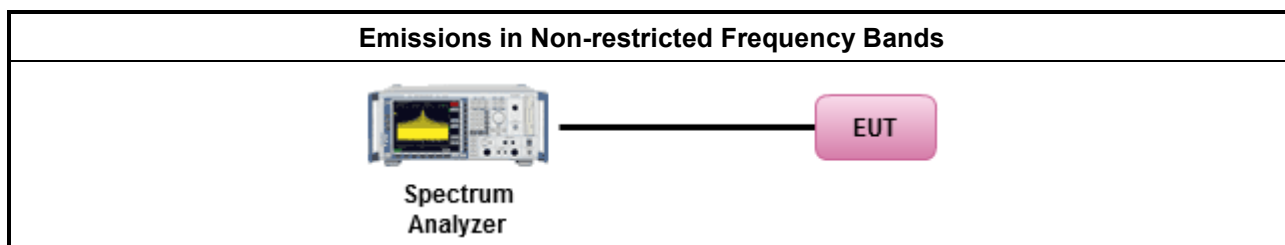
3.5.2 Measuring Instruments

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

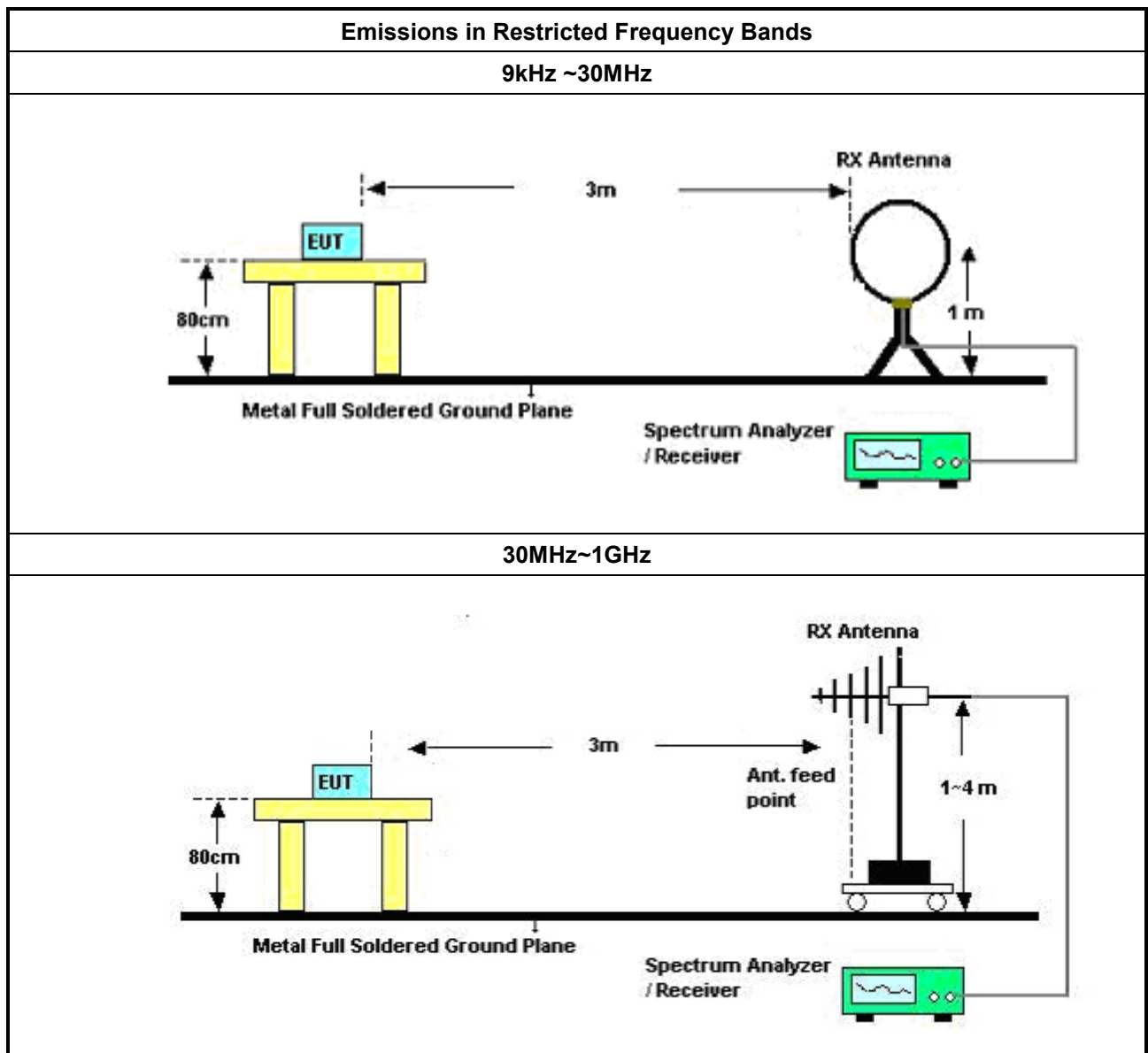
Test Method	
▪	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
▪	For the transmitter unwanted 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.

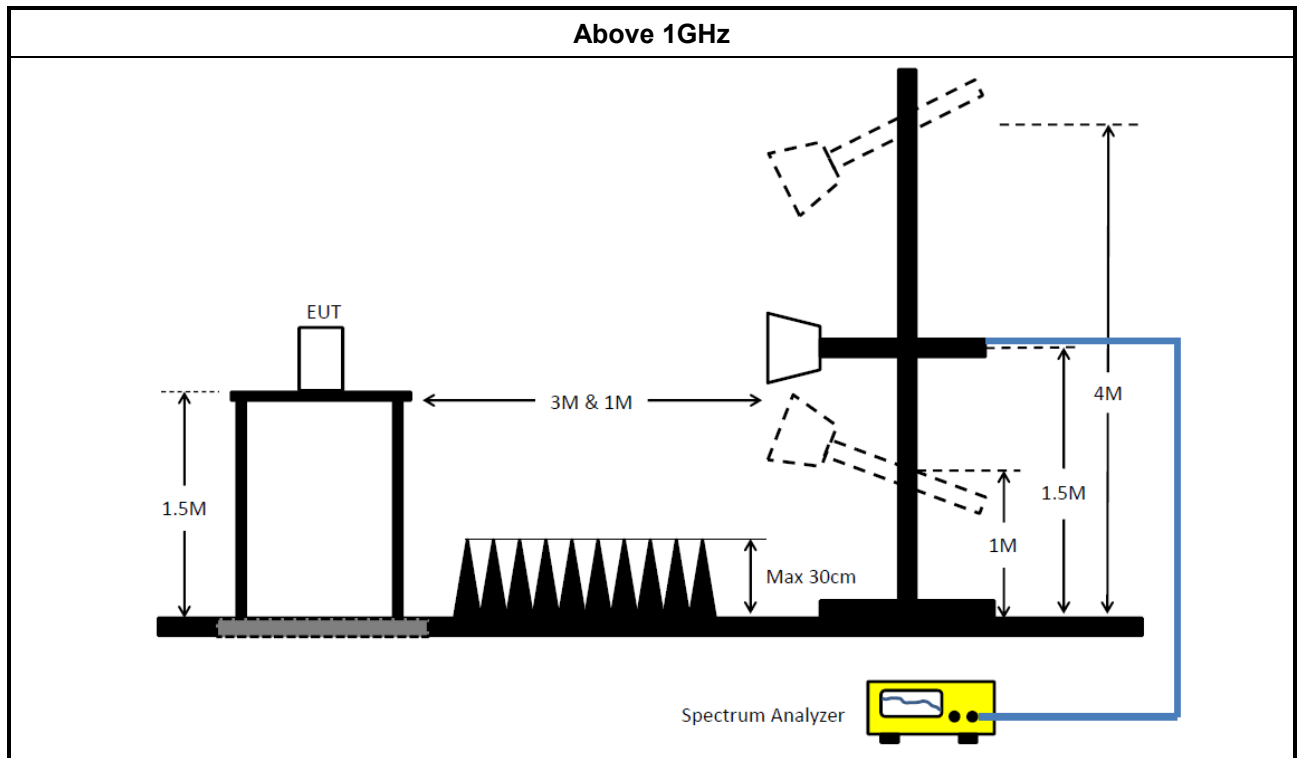
3.6.4 Measurement Results Calculation

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	21/May/2025	20/May/2026
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101578	9kHz ~ 30MHz	24/Aug/2025	23/Aug/2026
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	25/Feb/2026	24/Feb/2027
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	1056	9kHz ~ 30MHz	25/Jun/2025	24/Jun/2026
SENSE-EMI	Sporton	V5.11.6	N/A	N/A	N/A	N/A

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	05/Jan/2026	04/Jan/2027
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	29/Oct/2025	28/Oct/2026
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	17/Dec/2025	16/Dec/2026
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	17/Dec/2025	16/Dec/2026
SENSE-15247_FS	Sporton	V5.11.27	N/A	N/A	N/A	N/A

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	30MHz~1GHz 3m	06/Aug/2025	05/Aug/2026
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	1GHz~18GHz 3m	06/Aug/2025	05/Aug/2026
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	08/Dec/2025	07/Dec/2026
Signal Analyzer	ROHDE & SCHWARZ	FSV3044	101411	10Hz~44GHz	30/Sep/2025	29/Sep/2026
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63540/002	30MHz~1GHz	04/Jun/2025	03/Jun/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02877	1GHz~18GHz	02/Jul/2025	01/Jul/2026
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	07/Oct/2025	06/Oct/2026
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	9kHz~1GHz	03/Oct/2025	02/Oct/2026
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	1GHz~40GHz	03/Oct/2025	02/Oct/2026
Preamplifier	SGH	PRAMP 903	20230515-2	30MHz~1GHz	21/May/2025	20/May/2026
Preamplifier	SGH	PRAMP 118-H	20230515-4	1GHz ~18GHz	21/May/2025	20/May/2026
Amplifier	EM	EM18G40G	060874	18GHz ~ 40GHz	18/Apr/2025	17/Apr/2026
SENSE-15247-FS	Sporton	V5.11.27	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

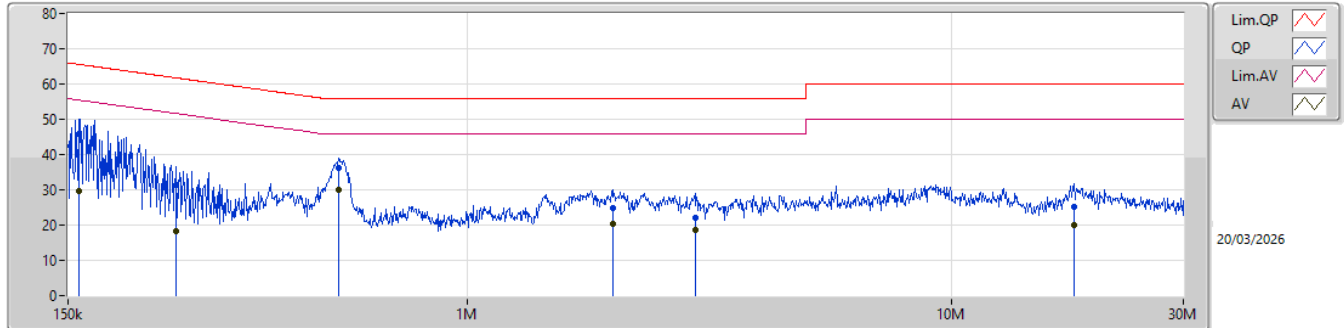
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	540.27k	32.05	46.00	-13.95	Neutral

Result

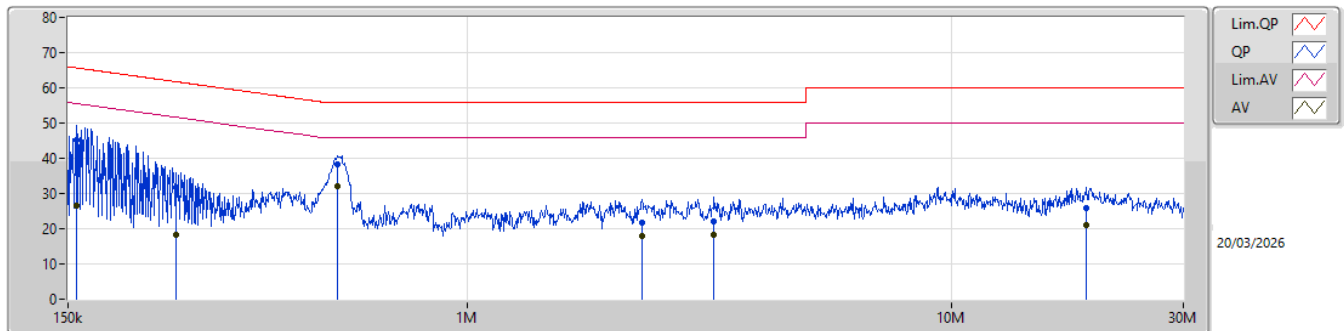
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	157.99k	45.69	65.56	-19.87	Line
Mode 1	Pass	AV	157.99k	29.49	55.56	-26.07	Line
Mode 1	Pass	QP	251.04k	31.33	61.72	-30.39	Line
Mode 1	Pass	AV	251.04k	18.28	51.72	-33.44	Line
Mode 1	Pass	QP	542.43k	36.20	56.00	-19.80	Line
Mode 1	Pass	AV	542.43k	30.01	46.00	-15.99	Line
Mode 1	Pass	QP	2M	24.77	56.00	-31.23	Line
Mode 1	Pass	AV	2M	20.43	46.00	-25.57	Line
Mode 1	Pass	QP	2.95M	22.01	56.00	-33.99	Line
Mode 1	Pass	AV	2.95M	18.58	46.00	-27.42	Line
Mode 1	Pass	QP	17.84M	25.34	60.00	-34.66	Line
Mode 1	Pass	AV	17.84M	20.15	50.00	-29.85	Line
Mode 1	Pass	QP	156.11k	45.27	65.67	-20.40	Neutral
Mode 1	Pass	AV	156.11k	26.43	55.67	-29.24	Neutral
Mode 1	Pass	QP	251.04k	31.70	61.72	-30.02	Neutral
Mode 1	Pass	AV	251.04k	18.31	51.72	-33.41	Neutral
Mode 1	Pass	QP	540.27k	38.42	56.00	-17.58	Neutral
Mode 1	Pass	AV	540.27k	32.05	46.00	-13.95	Neutral
Mode 1	Pass	QP	2.29M	21.58	56.00	-34.42	Neutral
Mode 1	Pass	AV	2.29M	17.87	46.00	-28.13	Neutral
Mode 1	Pass	QP	3.23M	21.95	56.00	-34.05	Neutral
Mode 1	Pass	AV	3.23M	18.29	46.00	-27.71	Neutral
Mode 1	Pass	QP	18.94M	25.88	60.00	-34.12	Neutral
Mode 1	Pass	AV	18.94M	20.89	50.00	-29.11	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	157.99k	45.69	65.56	-19.87	19.77	Line	-	25.92	9.64	0.01	10.12						
AV	157.99k	29.49	55.56	-26.07	19.77	Line	-	9.72	9.64	0.01	10.12						
QP	251.04k	31.33	61.72	-30.39	19.78	Line	-	11.55	9.64	0.02	10.12						
AV	251.04k	18.28	51.72	-33.44	19.78	Line	-	-1.50	9.64	0.02	10.12						
QP	542.43k	36.20	56.00	-19.80	19.79	Line	-	16.41	9.63	0.04	10.12						
AV	542.43k	30.01	46.00	-15.99	19.79	Line	-	10.22	9.63	0.04	10.12						
QP	2M	24.77	56.00	-31.23	19.81	Line	-	4.96	9.65	0.03	10.13						
AV	2M	20.43	46.00	-25.57	19.81	Line	-	0.62	9.65	0.03	10.13						
QP	2.95M	22.01	56.00	-33.99	19.83	Line	-	2.18	9.66	0.04	10.13						
AV	2.95M	18.58	46.00	-27.42	19.83	Line	-	-1.25	9.66	0.04	10.13						
QP	17.84M	25.34	60.00	-34.66	20.03	Line	-	5.31	9.63	0.28	10.12						
AV	17.84M	20.15	50.00	-29.85	20.03	Line	-	0.12	9.63	0.28	10.12						

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	156.11k	45.27	65.67	-20.40	19.77	Neutral	-	25.50	9.64	0.01	10.12						
AV	156.11k	26.43	55.67	-29.24	19.77	Neutral	-	6.66	9.64	0.01	10.12						
QP	251.04k	31.70	61.72	-30.02	19.77	Neutral	-	11.93	9.63	0.02	10.12						
AV	251.04k	18.31	51.72	-33.41	19.77	Neutral	-	-1.46	9.63	0.02	10.12						
QP	540.27k	38.42	56.00	-17.58	19.79	Neutral	-	18.63	9.63	0.04	10.12						
AV	540.27k	32.05	46.00	-13.95	19.79	Neutral	-	12.26	9.63	0.04	10.12						
QP	2.29M	21.58	56.00	-34.42	19.81	Neutral	-	1.77	9.65	0.03	10.13						
AV	2.29M	17.87	46.00	-28.13	19.81	Neutral	-	-1.94	9.65	0.03	10.13						
QP	3.23M	21.95	56.00	-34.05	19.83	Neutral	-	2.12	9.66	0.04	10.13						
AV	3.23M	18.29	46.00	-27.71	19.83	Neutral	-	-1.54	9.66	0.04	10.13						
QP	18.94M	25.88	60.00	-34.12	20.11	Neutral	-	5.77	9.71	0.28	10.12						
AV	18.94M	20.89	50.00	-29.11	20.11	Neutral	-	0.78	9.71	0.28	10.12						

**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)	705k	1.036M	1M04F1D	646.25k	1.016M
BT-LE(125kbps)	663.75k	1.061M	1M06F1D	656.25k	1.052M
BT-LE(500kbps)	713.75k	1.026M	1M03F1D	645k	1.009M
BT-LE(2Mbps)	1.325M	2.079M	2M08F1D	1.173M	2.046M

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

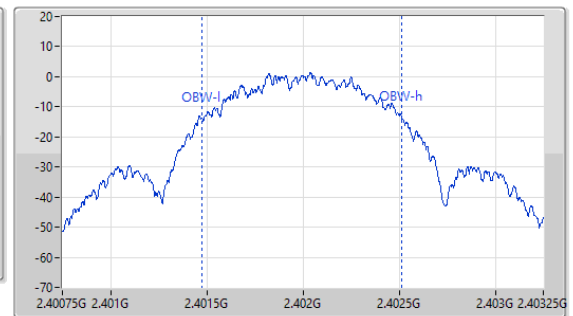
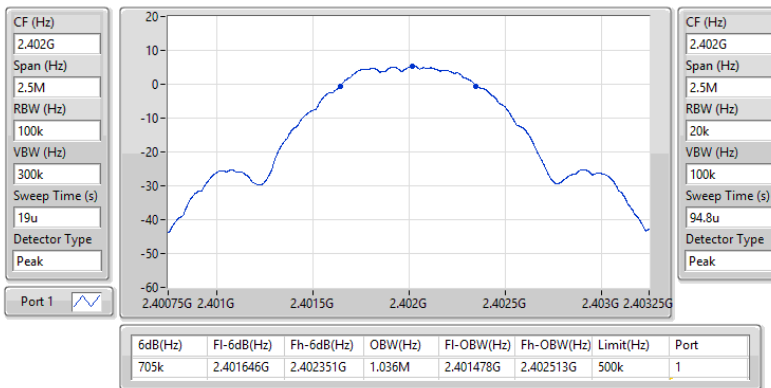
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	705k	1.036M
2440MHz	Pass	500k	646.25k	1.016M
2480MHz	Pass	500k	655k	1.017M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.285M	2.079M
2440MHz	Pass	500k	1.325M	2.046M
2480MHz	Pass	500k	1.173M	2.064M
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	500k	663.75k	1.061M
2440MHz	Pass	500k	656.25k	1.052M
2480MHz	Pass	500k	661.25k	1.053M
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	500k	685k	1.012M
2440MHz	Pass	500k	713.75k	1.026M
2480MHz	Pass	500k	645k	1.009M

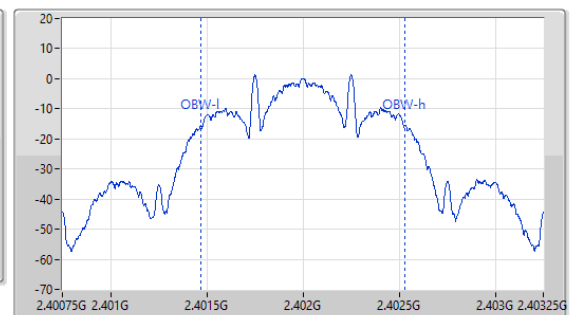
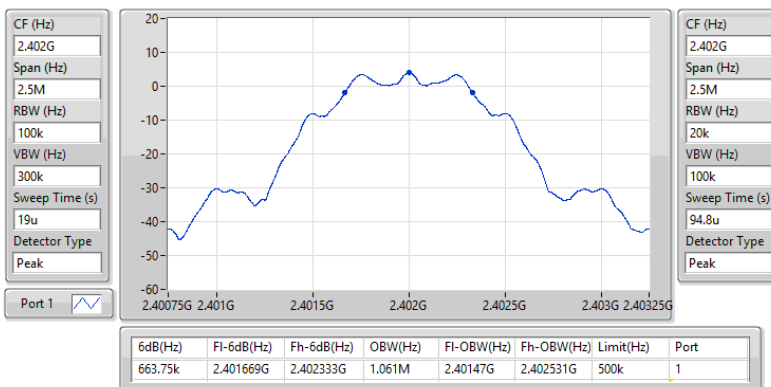
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

16/03/2026

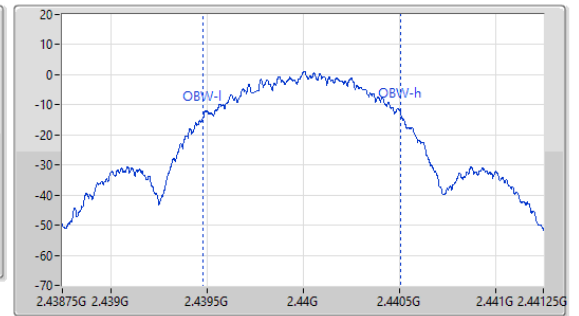
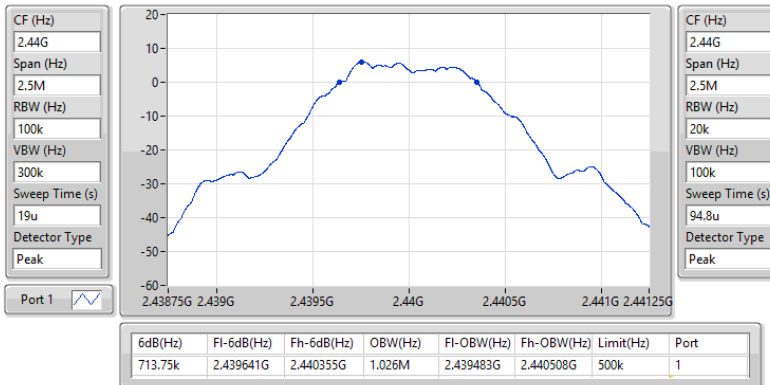

2.4-2.4835GHz_BT-LE(125kbps)
EBW-DTS
2402MHz

16/03/2026

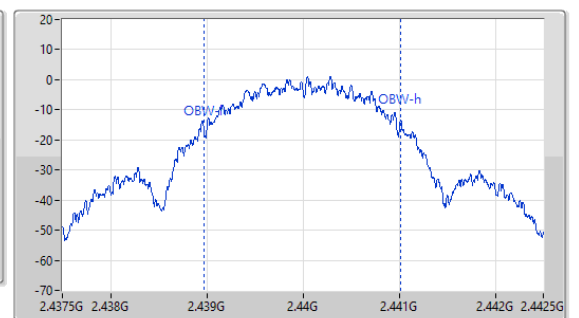
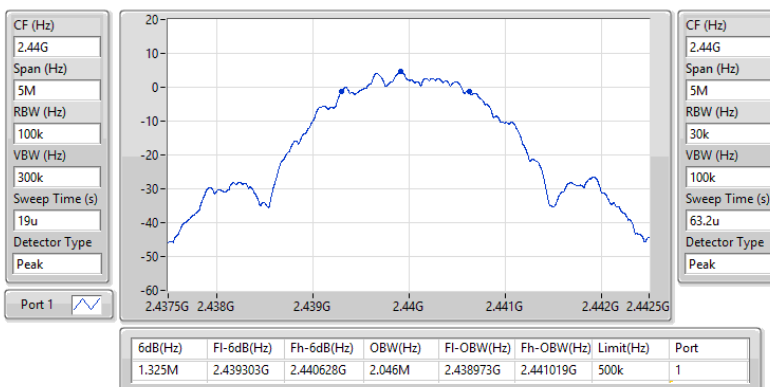


2.4-2.4835GHz_BT-LE(500kbps)
EBW-DTS
2440MHz

16/03/2026


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

16/03/2026





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	8.52	0.00711
BT-LE(125kbps)	8.53	0.00713
BT-LE(500kbps)	8.38	0.00689
BT-LE(2Mbps)	8.52	0.00711

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.40	8.34	30.00
2440MHz	Pass	1.40	8.50	30.00
2480MHz	Pass	1.40	8.52	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.40	8.38	30.00
2440MHz	Pass	1.40	8.32	30.00
2480MHz	Pass	1.40	8.52	30.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	1.40	8.38	30.00
2440MHz	Pass	1.40	8.50	30.00
2480MHz	Pass	1.40	8.53	30.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	1.40	8.38	30.00
2440MHz	Pass	1.40	8.32	30.00
2480MHz	Pass	1.40	8.35	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)	-2.54
BT-LE(125kbps)	1.13
BT-LE(500kbps)	1.56
BT-LE(2Mbps)	-5.91

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.40	-3.94	8.00
2440MHz	Pass	1.40	-2.54	8.00
2480MHz	Pass	1.40	-5.11	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.40	-5.97	8.00
2440MHz	Pass	1.40	-5.91	8.00
2480MHz	Pass	1.40	-7.33	8.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	1.40	1.01	8.00
2440MHz	Pass	1.40	1.13	8.00
2480MHz	Pass	1.40	1.01	8.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	1.40	1.56	8.00
2440MHz	Pass	1.40	-3.27	8.00
2480MHz	Pass	1.40	-5.36	8.00

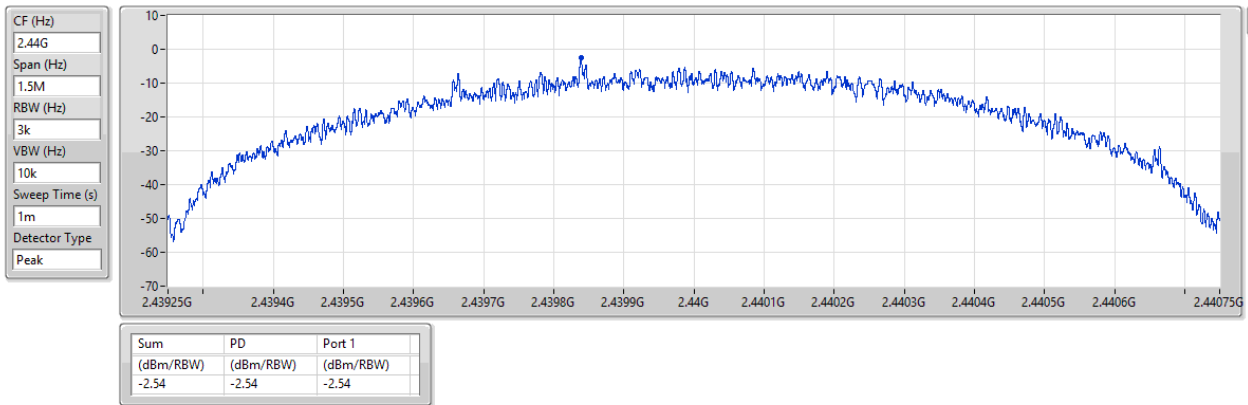
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
 Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2440MHz

16/03/2026

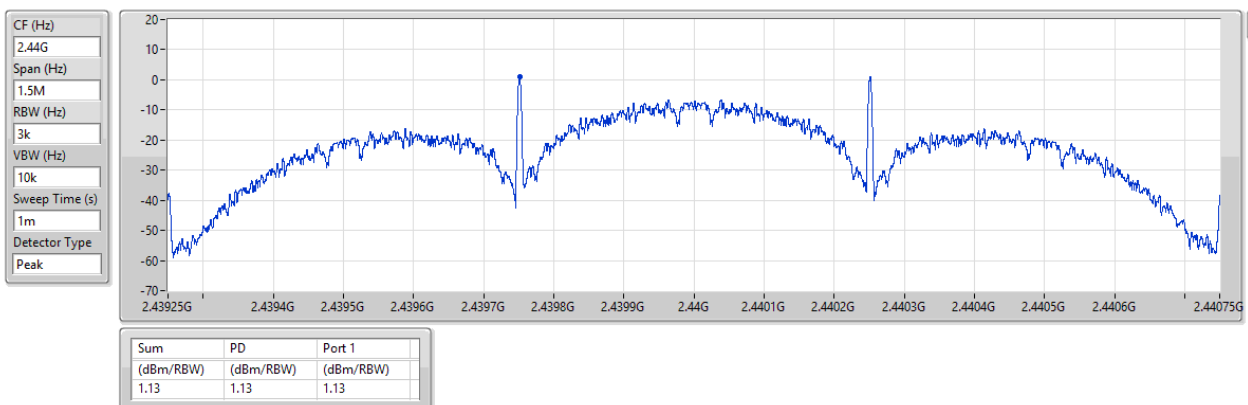


2.4-2.4835GHz_BT-LE(125kbps)

PSD

2440MHz

16/03/2026

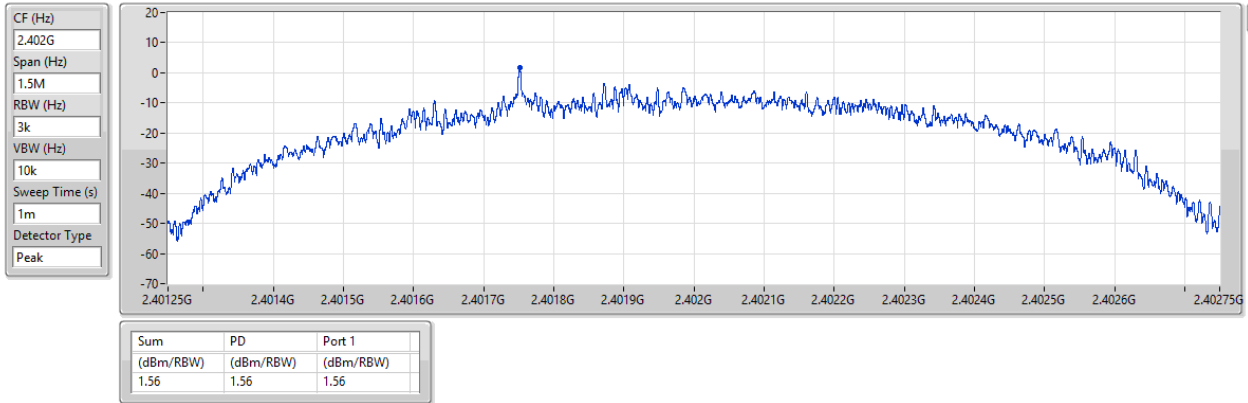


2.4-2.4835GHz_BT-LE(500kbps)

PSD

2402MHz

16/03/2026

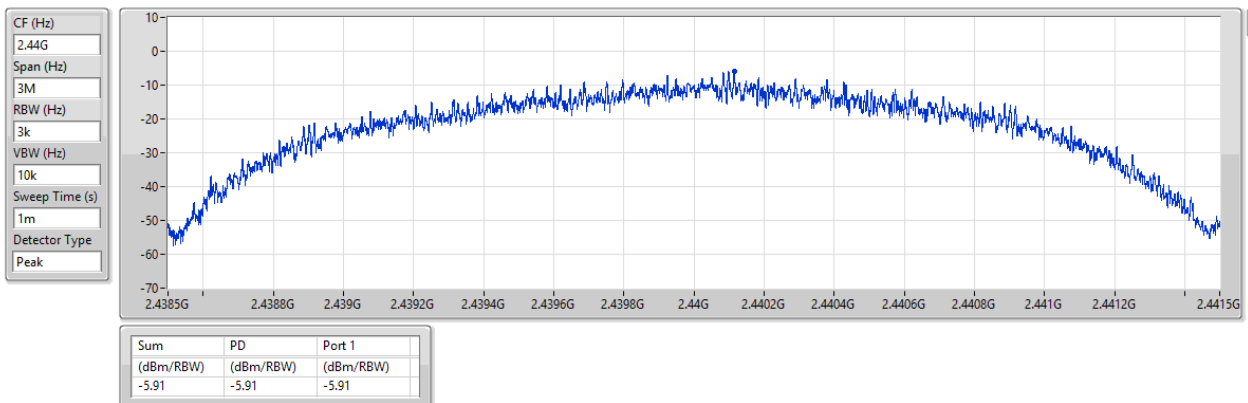


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

16/03/2026



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	2.43975G	7.26	-22.74	1.96875G	-55.01	2.39996G	-54.91	2.4G	-53.72	2.50298G	-54.83	17.61552G	-43.72	1
BT-LE(125kbps)	Pass	2.48016G	4.29	-25.71	2.30128G	-55.60	2.3922G	-53.83	2.4G	-56.90	2.5015G	-55.30	16.20106G	-43.50	1
BT-LE(500kbps)	Pass	2.40167G	6.89	-23.11	1.90765G	-56.34	2.39444G	-54.98	2.4G	-56.91	2.5025G	-54.55	24.97188G	-42.85	1
BT-LE(2Mbps)	Pass	2.47999G	5.36	-24.64	1.97463G	-56.72	2.4G	-29.29	2.4G	-26.86	2.50302G	-54.69	17.64646G	-44.06	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	2.43975G	7.26	-22.74	1.96875G	-55.01	2.39996G	-54.91	2.4G	-53.72	2.50298G	-54.83	17.61552G	-43.72	1
2440MHz	Pass	2.43975G	7.26	-22.74	1.82188G	-55.83	2.39096G	-54.84	2.4G	-56.93	2.50122G	-55.00	17.62396G	-44.05	1
2480MHz	Pass	2.43975G	7.26	-22.74	1.9899G	-56.34	2.39748G	-55.04	2.4G	-57.65	2.50078G	-55.43	17.6099G	-43.23	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.47999G	5.36	-24.64	1.97463G	-56.72	2.4G	-29.29	2.4G	-26.86	2.50302G	-54.69	17.64646G	-44.06	1
2440MHz	Pass	2.47999G	5.36	-24.64	1.74433G	-56.02	2.39164G	-54.81	2.4G	-57.21	2.5023G	-55.23	17.60146G	-42.50	1
2480MHz	Pass	2.47999G	5.36	-24.64	2.18613G	-55.19	2.3988G	-55.69	2.4G	-57.35	2.50218G	-54.41	16.20949G	-42.20	1
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.48016G	4.29	-25.71	1.98403G	-56.61	2.39828G	-54.59	2.4G	-53.98	2.50074G	-54.50	16.2123G	-43.84	1
2440MHz	Pass	2.48016G	4.29	-25.71	2.30128G	-55.60	2.3922G	-53.83	2.4G	-56.90	2.5015G	-55.30	16.20106G	-43.50	1
2480MHz	Pass	2.48016G	4.29	-25.71	2.18025G	-55.88	2.39384G	-54.82	2.4G	-57.88	2.50202G	-55.12	16.20387G	-43.50	1
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40167G	6.89	-23.11	2.19788G	-55.51	2.3988G	-54.65	2.4G	-54.87	2.50122G	-55.06	16.21793G	-42.90	1
2440MHz	Pass	2.40167G	6.89	-23.11	2.3095G	-55.49	2.39024G	-55.36	2.4G	-56.37	2.50034G	-54.86	17.63802G	-43.20	1
2480MHz	Pass	2.40167G	6.89	-23.11	1.90765G	-56.34	2.39444G	-54.98	2.4G	-56.91	2.5025G	-54.55	24.97188G	-42.85	1

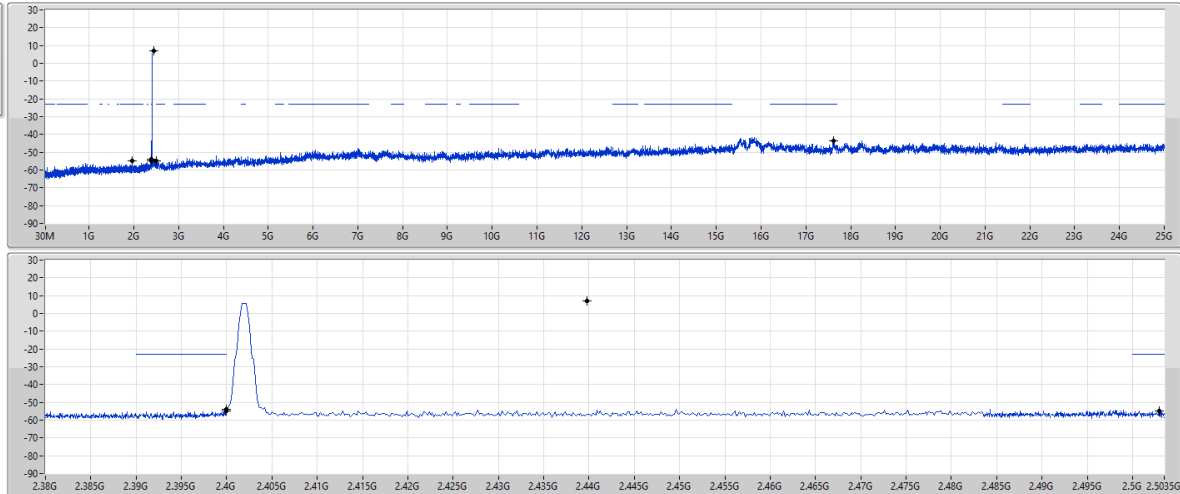
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2402MHz

16/03/2026

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



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43975G	7.26	-22.74	1.96875G	-55.01	2.39996G	-54.91	2.4G	-53.72	2.50298G	-54.83	17.61552G	-43.72	1

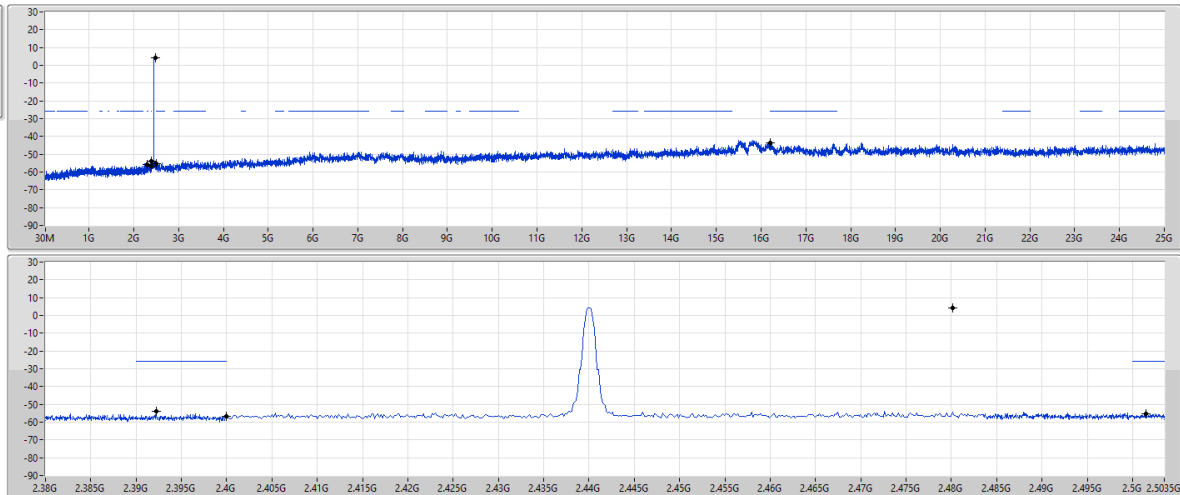
2.4-2.4835GHz_BT-LE(125kbps)

CSEndB-DTS

2440MHz

16/03/2026

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



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.48016G	4.29	-25.71	2.30128G	-55.60	2.3922G	-53.83	2.4G	-56.90	2.5015G	-55.30	16.20106G	-43.50	1

2.4-2.4835GHz_BT-LE(500kbps)

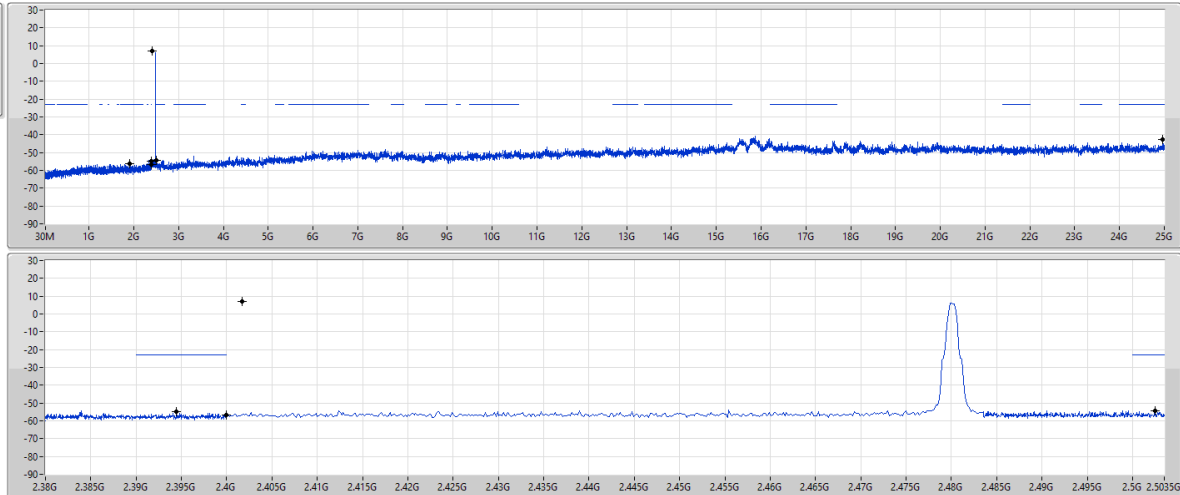
CSEndB-DTS

2480MHz

16/03/2026

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
2.40167G	6.89	-23.11	1.90765G	-56.34	2.39444G	-54.98	2.4G	-56.91	2.5025G	-54.55	2.497188G	-42.85	1

2.4-2.4835GHz_BT-LE(2Mbps)

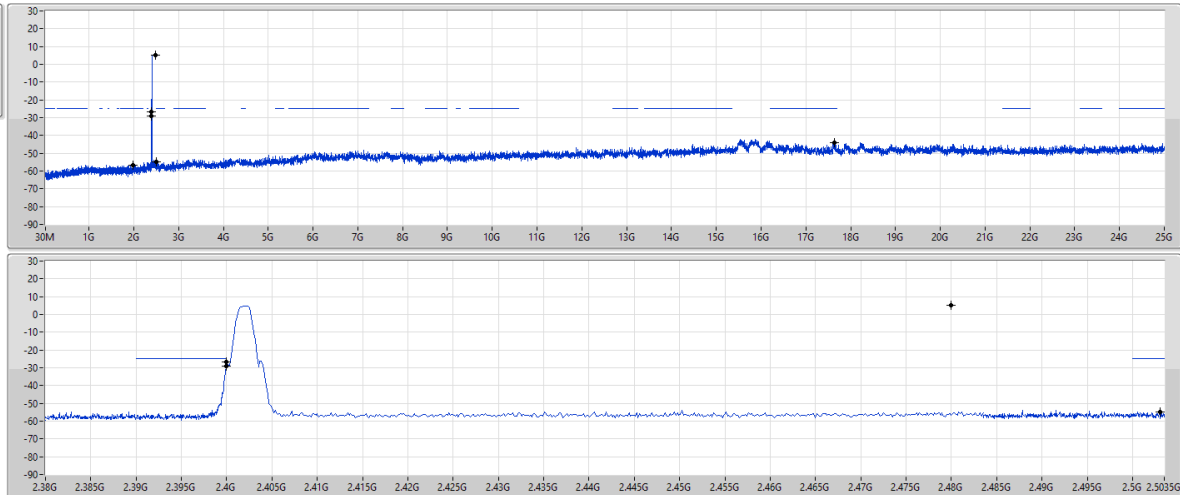
CSEndB-DTS

2402MHz

16/03/2026

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	5.36	-24.64	1.97463G	-56.72	2.4G	-29.29	2.4G	-26.86	2.50302G	-54.69	17.64646G	-44.06	1



Summary

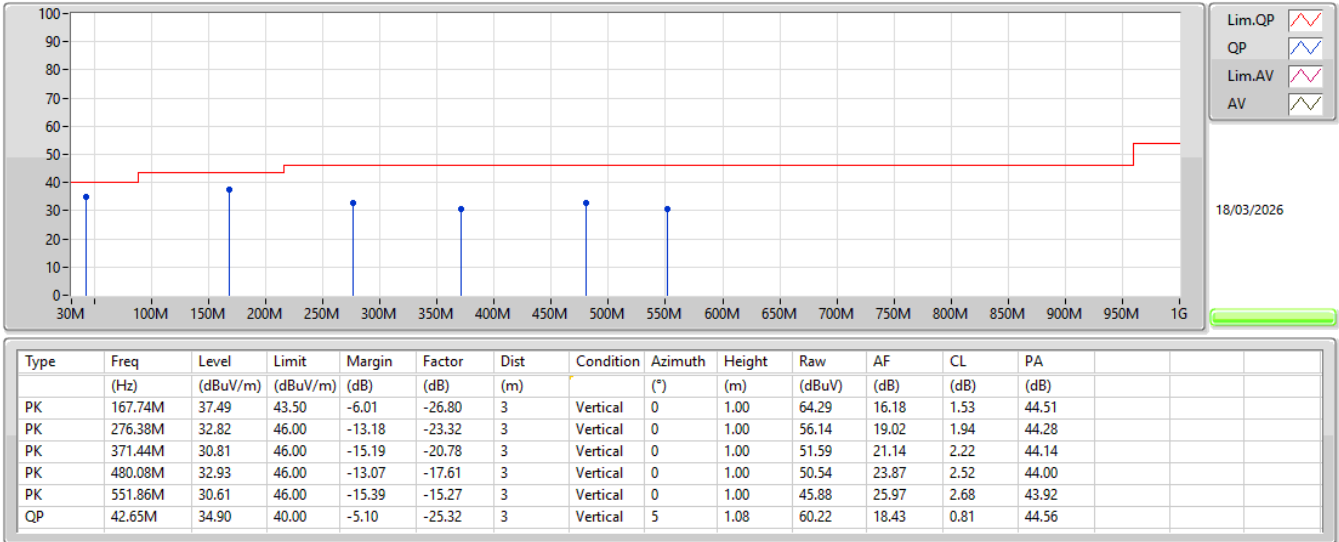
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	268.62M	41.69	46.00	-4.31	3	Horizontal	0	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz_Test Fixture	Pass	PK	167.74M	37.49	43.50	-6.01	3	Vertical	0	1.00
2440MHz_Test Fixture	Pass	PK	276.38M	32.82	46.00	-13.18	3	Vertical	0	1.00
2440MHz_Test Fixture	Pass	PK	371.44M	30.81	46.00	-15.19	3	Vertical	0	1.00
2440MHz_Test Fixture	Pass	PK	480.08M	32.93	46.00	-13.07	3	Vertical	0	1.00
2440MHz_Test Fixture	Pass	PK	551.86M	30.61	46.00	-15.39	3	Vertical	0	1.00
2440MHz_Test Fixture	Pass	QP	42.65M	34.90	40.00	-5.10	3	Vertical	5	1.08
2440MHz_Test Fixture	Pass	PK	41.64M	32.75	40.00	-7.25	3	Horizontal	0	1.00
2440MHz_Test Fixture	Pass	PK	268.62M	41.69	46.00	-4.31	3	Horizontal	0	1.00
2440MHz_Test Fixture	Pass	PK	348.16M	41.27	46.00	-4.73	3	Horizontal	0	1.00
2440MHz_Test Fixture	Pass	PK	480.08M	35.15	46.00	-10.85	3	Horizontal	0	1.00
2440MHz_Test Fixture	Pass	PK	540.22M	39.07	46.00	-6.93	3	Horizontal	0	1.00
2440MHz_Test Fixture	Pass	QP	165.34M	33.73	43.50	-9.77	3	Horizontal	0	1.01

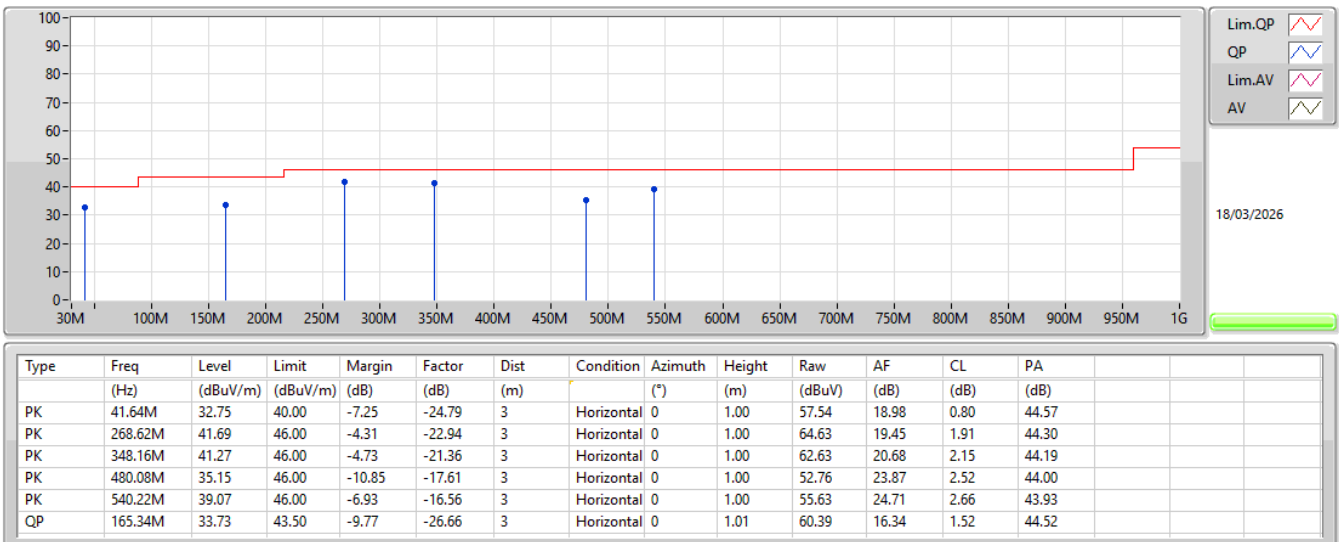
2.4-2.4835GHz_BT-LE(2Mbps)

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	2.4982G	46.57	54.00	-7.43	3	Horizontal	355	1.07
BT-LE(2Mbps)	Pass	AV	2.4928G	46.84	54.00	-7.16	3	Vertical	90	2.87
BT-LE(125kbps)	Pass	AV	2.4958G	46.82	54.00	-7.18	3	Horizontal	351	1.50
BT-LE(500kbps)	Pass	AV	2.4968G	46.82	54.00	-7.18	3	Horizontal	350	1.36

Result

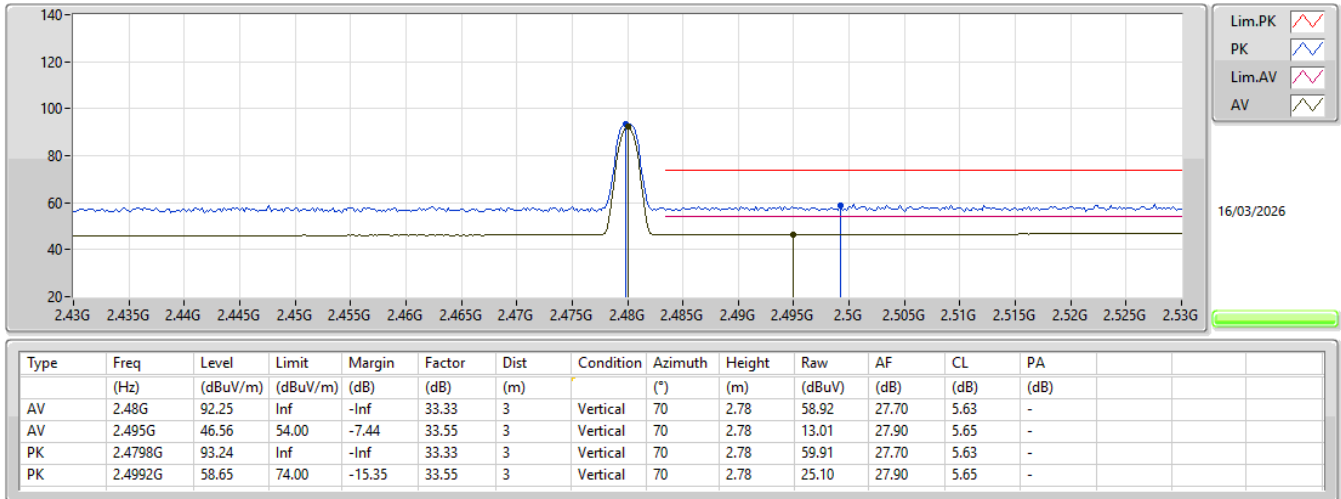
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3884G	45.68	54.00	-8.32	3	Vertical	69	2.92
2402MHz	Pass	AV	2.402G	95.56	Inf	-Inf	3	Vertical	69	2.92
2402MHz	Pass	PK	2.3732G	57.78	74.00	-16.22	3	Vertical	69	2.92
2402MHz	Pass	PK	2.4018G	96.50	Inf	-Inf	3	Vertical	69	2.92
2402MHz	Pass	AV	2.3888G	45.69	54.00	-8.31	3	Horizontal	353	1.08
2402MHz	Pass	AV	2.402G	98.41	Inf	-Inf	3	Horizontal	353	1.08
2402MHz	Pass	PK	2.3666G	58.60	74.00	-15.40	3	Horizontal	353	1.08
2402MHz	Pass	PK	2.4022G	99.17	Inf	-Inf	3	Horizontal	353	1.08
2402MHz	Pass	AV	4.80417G	37.39	54.00	-16.61	3	Vertical	63	2.50
2402MHz	Pass	PK	4.80383G	46.91	74.00	-27.09	3	Vertical	63	2.50
2402MHz	Pass	AV	4.80414G	39.58	54.00	-14.42	3	Horizontal	87	1.47
2402MHz	Pass	PK	4.8035G	48.71	74.00	-25.29	3	Horizontal	87	1.47
2440MHz	Pass	AV	2.39G	45.67	54.00	-8.33	3	Vertical	69	2.88
2440MHz	Pass	AV	2.44G	93.94	Inf	-Inf	3	Vertical	69	2.88
2440MHz	Pass	AV	2.4928G	46.56	54.00	-7.44	3	Vertical	69	2.88
2440MHz	Pass	PK	2.3824G	58.36	74.00	-15.64	3	Vertical	69	2.88
2440MHz	Pass	PK	2.4396G	94.88	Inf	-Inf	3	Vertical	69	2.88
2440MHz	Pass	PK	2.4964G	58.80	74.00	-15.20	3	Vertical	69	2.88
2440MHz	Pass	AV	2.3896G	45.67	54.00	-8.33	3	Horizontal	354	1.01
2440MHz	Pass	AV	2.44G	98.03	Inf	-Inf	3	Horizontal	354	1.01
2440MHz	Pass	AV	2.492G	46.56	54.00	-7.44	3	Horizontal	354	1.01
2440MHz	Pass	PK	2.3664G	58.58	74.00	-15.42	3	Horizontal	354	1.01
2440MHz	Pass	PK	2.4396G	98.91	Inf	-Inf	3	Horizontal	354	1.01
2440MHz	Pass	PK	2.4972G	58.24	74.00	-15.76	3	Horizontal	354	1.01
2440MHz	Pass	AV	4.88007G	37.22	54.00	-16.78	3	Vertical	46	2.93
2440MHz	Pass	PK	4.88043G	47.14	74.00	-26.86	3	Vertical	46	2.93
2440MHz	Pass	AV	4.88003G	39.00	54.00	-15.00	3	Horizontal	86	2.93
2440MHz	Pass	PK	4.87958G	48.25	74.00	-25.75	3	Horizontal	86	2.93
2480MHz	Pass	AV	2.48G	92.25	Inf	-Inf	3	Vertical	70	2.78
2480MHz	Pass	AV	2.495G	46.56	54.00	-7.44	3	Vertical	70	2.78
2480MHz	Pass	PK	2.4798G	93.24	Inf	-Inf	3	Vertical	70	2.78
2480MHz	Pass	PK	2.4992G	58.65	74.00	-15.35	3	Vertical	70	2.78
2480MHz	Pass	AV	2.48G	96.70	Inf	-Inf	3	Horizontal	355	1.07
2480MHz	Pass	AV	2.4982G	46.57	54.00	-7.43	3	Horizontal	355	1.07
2480MHz	Pass	PK	2.4798G	97.65	Inf	-Inf	3	Horizontal	355	1.07
2480MHz	Pass	PK	2.49G	59.90	74.00	-14.10	3	Horizontal	355	1.07
2480MHz	Pass	AV	4.95965G	36.69	54.00	-17.31	3	Vertical	48	2.88
2480MHz	Pass	PK	4.96094G	46.79	74.00	-27.21	3	Vertical	48	2.88
2480MHz	Pass	AV	4.96028G	37.20	54.00	-16.80	3	Horizontal	356	1.50
2480MHz	Pass	PK	4.9604G	47.13	74.00	-26.87	3	Horizontal	356	1.50
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3842G	45.83	54.00	-8.17	3	Vertical	96	1.50
2402MHz	Pass	AV	2.402G	88.06	Inf	-Inf	3	Vertical	96	1.50
2402MHz	Pass	PK	2.3726G	58.27	74.00	-15.73	3	Vertical	96	1.50
2402MHz	Pass	PK	2.4026G	90.45	Inf	-Inf	3	Vertical	96	1.50
2402MHz	Pass	AV	2.39G	45.88	54.00	-8.12	3	Horizontal	349	1.09
2402MHz	Pass	AV	2.402G	95.71	Inf	-Inf	3	Horizontal	349	1.09
2402MHz	Pass	PK	2.3668G	58.83	74.00	-15.17	3	Horizontal	349	1.09
2402MHz	Pass	PK	2.4024G	98.08	Inf	-Inf	3	Horizontal	349	1.09
2402MHz	Pass	AV	4.80313G	35.83	54.00	-18.17	3	Vertical	65	2.32
2402MHz	Pass	PK	4.80314G	46.46	74.00	-27.54	3	Vertical	65	2.32
2402MHz	Pass	AV	4.80307G	38.69	54.00	-15.31	3	Horizontal	89	1.50
2402MHz	Pass	PK	4.80314G	48.10	74.00	-25.90	3	Horizontal	89	1.50
2440MHz	Pass	AV	2.3484G	45.83	54.00	-8.17	3	Vertical	87	2.87
2440MHz	Pass	AV	2.44G	86.79	Inf	-Inf	3	Vertical	87	2.87
2440MHz	Pass	AV	2.4932G	46.77	54.00	-7.23	3	Vertical	87	2.87
2440MHz	Pass	PK	2.3568G	58.06	74.00	-15.94	3	Vertical	87	2.87
2440MHz	Pass	PK	2.4404G	89.31	Inf	-Inf	3	Vertical	87	2.87
2440MHz	Pass	PK	2.4852G	58.58	74.00	-15.42	3	Vertical	87	2.87
2440MHz	Pass	AV	2.388G	45.86	54.00	-8.14	3	Horizontal	351	1.35

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2440MHz	Pass	AV	2.44G	97.07	Inf	-Inf	3	Horizontal	351	1.35
2440MHz	Pass	AV	2.4944G	46.77	54.00	-7.23	3	Horizontal	351	1.35
2440MHz	Pass	PK	2.35G	58.36	74.00	-15.64	3	Horizontal	351	1.35
2440MHz	Pass	PK	2.4396G	99.39	Inf	-Inf	3	Horizontal	351	1.35
2440MHz	Pass	PK	2.4996G	59.05	74.00	-14.95	3	Horizontal	351	1.35
2440MHz	Pass	AV	4.8791G	34.94	54.00	-19.06	3	Vertical	48	2.58
2440MHz	Pass	PK	4.88077G	46.02	74.00	-27.98	3	Vertical	48	2.58
2440MHz	Pass	AV	4.87894G	37.71	54.00	-16.29	3	Horizontal	90	1.40
2440MHz	Pass	PK	4.88109G	47.78	74.00	-26.22	3	Horizontal	90	1.40
2480MHz	Pass	AV	2.48G	88.30	Inf	-Inf	3	Vertical	90	2.87
2480MHz	Pass	AV	2.4928G	46.84	54.00	-7.16	3	Vertical	90	2.87
2480MHz	Pass	PK	2.4794G	90.72	Inf	-Inf	3	Vertical	90	2.87
2480MHz	Pass	PK	2.4838G	58.47	74.00	-15.53	3	Vertical	90	2.87
2480MHz	Pass	AV	2.48G	96.31	Inf	-Inf	3	Horizontal	351	1.50
2480MHz	Pass	AV	2.4835G	46.80	54.00	-7.20	3	Horizontal	351	1.50
2480MHz	Pass	PK	2.4804G	98.65	Inf	-Inf	3	Horizontal	351	1.50
2480MHz	Pass	PK	2.4986G	58.83	74.00	-15.17	3	Horizontal	351	1.50
2480MHz	Pass	AV	4.95898G	35.84	54.00	-18.16	3	Vertical	63	2.89
2480MHz	Pass	PK	4.96104G	46.94	74.00	-27.06	3	Vertical	63	2.89
2480MHz	Pass	AV	4.95911G	36.67	54.00	-17.33	3	Horizontal	352	1.01
2480MHz	Pass	PK	4.96109G	46.90	74.00	-27.10	3	Horizontal	352	1.01
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3898G	45.85	54.00	-8.15	3	Vertical	95	1.50
2402MHz	Pass	AV	2.402G	89.01	Inf	-Inf	3	Vertical	95	1.50
2402MHz	Pass	PK	2.3604G	58.24	74.00	-15.76	3	Vertical	95	1.50
2402MHz	Pass	PK	2.4022G	90.13	Inf	-Inf	3	Vertical	95	1.50
2402MHz	Pass	AV	2.3888G	45.89	54.00	-8.11	3	Horizontal	349	1.08
2402MHz	Pass	AV	2.402G	96.84	Inf	-Inf	3	Horizontal	349	1.08
2402MHz	Pass	PK	2.3822G	57.95	74.00	-16.05	3	Horizontal	349	1.08
2402MHz	Pass	PK	2.4022G	97.88	Inf	-Inf	3	Horizontal	349	1.08
2402MHz	Pass	AV	4.80389G	36.83	54.00	-17.17	3	Vertical	64	2.56
2402MHz	Pass	PK	4.80369G	46.69	74.00	-27.31	3	Vertical	64	2.56
2402MHz	Pass	AV	4.80398G	39.23	54.00	-14.77	3	Horizontal	88	1.50
2402MHz	Pass	PK	4.80365G	47.97	74.00	-26.03	3	Horizontal	88	1.50
2440MHz	Pass	AV	2.3428G	45.84	54.00	-8.16	3	Vertical	87	1.67
2440MHz	Pass	AV	2.44G	88.56	Inf	-Inf	3	Vertical	87	1.67
2440MHz	Pass	AV	2.5G	46.73	54.00	-7.27	3	Vertical	87	1.67
2440MHz	Pass	PK	2.344G	58.36	74.00	-15.64	3	Vertical	87	1.67
2440MHz	Pass	PK	2.4396G	89.70	Inf	-Inf	3	Vertical	87	1.67
2440MHz	Pass	PK	2.4888G	58.87	74.00	-15.13	3	Vertical	87	1.67
2440MHz	Pass	AV	2.3892G	45.84	54.00	-8.16	3	Horizontal	350	1.36
2440MHz	Pass	AV	2.44G	98.58	Inf	-Inf	3	Horizontal	350	1.36
2440MHz	Pass	AV	2.4932G	46.77	54.00	-7.23	3	Horizontal	350	1.36
2440MHz	Pass	PK	2.3424G	58.28	74.00	-15.72	3	Horizontal	350	1.36
2440MHz	Pass	PK	2.4396G	99.63	Inf	-Inf	3	Horizontal	350	1.36
2440MHz	Pass	PK	2.4924G	58.50	74.00	-15.50	3	Horizontal	350	1.36
2440MHz	Pass	AV	4.88017G	36.40	54.00	-17.60	3	Vertical	65	2.62
2440MHz	Pass	PK	4.88048G	47.12	74.00	-26.88	3	Vertical	65	2.62
2440MHz	Pass	AV	4.87986G	38.69	54.00	-15.31	3	Horizontal	89	1.39
2440MHz	Pass	PK	4.87963G	48.29	74.00	-25.71	3	Horizontal	89	1.39
2480MHz	Pass	AV	2.48G	89.43	Inf	-Inf	3	Vertical	91	2.87
2480MHz	Pass	AV	2.4948G	46.74	54.00	-7.26	3	Vertical	91	2.87
2480MHz	Pass	PK	2.4798G	90.51	Inf	-Inf	3	Vertical	91	2.87
2480MHz	Pass	PK	2.4866G	58.93	74.00	-15.07	3	Vertical	91	2.87
2480MHz	Pass	AV	2.48G	97.53	Inf	-Inf	3	Horizontal	351	1.50
2480MHz	Pass	AV	2.4958G	46.82	54.00	-7.18	3	Horizontal	351	1.50
2480MHz	Pass	PK	2.4802G	98.56	Inf	-Inf	3	Horizontal	351	1.50
2480MHz	Pass	PK	2.4882G	59.15	74.00	-14.85	3	Horizontal	351	1.50
2480MHz	Pass	AV	4.96025G	35.88	54.00	-18.12	3	Vertical	48	2.86
2480MHz	Pass	PK	4.9602G	46.91	74.00	-27.09	3	Vertical	48	2.86
2480MHz	Pass	AV	4.95999G	38.35	54.00	-15.65	3	Horizontal	76	1.16
2480MHz	Pass	PK	4.96016G	48.41	74.00	-25.59	3	Horizontal	76	1.16

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3844G	45.85	54.00	-8.15	3	Vertical	96	1.50
2402MHz	Pass	AV	2.402G	88.95	Inf	-Inf	3	Vertical	96	1.50
2402MHz	Pass	PK	2.3876G	58.70	74.00	-15.30	3	Vertical	96	1.50
2402MHz	Pass	PK	2.4022G	89.89	Inf	-Inf	3	Vertical	96	1.50
2402MHz	Pass	AV	2.3872G	45.89	54.00	-8.11	3	Horizontal	349	1.07
2402MHz	Pass	AV	2.402G	96.83	Inf	-Inf	3	Horizontal	349	1.07
2402MHz	Pass	PK	2.3682G	58.94	74.00	-15.06	3	Horizontal	349	1.07
2402MHz	Pass	PK	2.4022G	97.77	Inf	-Inf	3	Horizontal	349	1.07
2402MHz	Pass	AV	4.80387G	37.23	54.00	-16.77	3	Vertical	64	2.36
2402MHz	Pass	PK	4.80354G	46.92	74.00	-27.08	3	Vertical	64	2.36
2402MHz	Pass	AV	4.80412G	39.93	54.00	-14.07	3	Horizontal	88	1.42
2402MHz	Pass	PK	4.80451G	48.54	74.00	-25.46	3	Horizontal	88	1.42
2440MHz	Pass	AV	2.3412G	45.89	54.00	-8.11	3	Vertical	87	1.66
2440MHz	Pass	AV	2.44G	88.88	Inf	-Inf	3	Vertical	87	1.66
2440MHz	Pass	AV	2.5G	46.76	54.00	-7.24	3	Vertical	87	1.66
2440MHz	Pass	PK	2.3724G	58.02	74.00	-15.98	3	Vertical	87	1.66
2440MHz	Pass	PK	2.4396G	89.84	Inf	-Inf	3	Vertical	87	1.66
2440MHz	Pass	PK	2.4888G	58.93	74.00	-15.07	3	Vertical	87	1.66
2440MHz	Pass	AV	2.3888G	45.89	54.00	-8.11	3	Horizontal	350	1.36
2440MHz	Pass	AV	2.44G	98.37	Inf	-Inf	3	Horizontal	350	1.36
2440MHz	Pass	AV	2.4968G	46.82	54.00	-7.18	3	Horizontal	350	1.36
2440MHz	Pass	PK	2.3852G	58.29	74.00	-15.71	3	Horizontal	350	1.36
2440MHz	Pass	PK	2.4396G	99.27	Inf	-Inf	3	Horizontal	350	1.36
2440MHz	Pass	PK	2.4872G	58.59	74.00	-15.41	3	Horizontal	350	1.36
2440MHz	Pass	AV	4.87994G	36.83	54.00	-17.17	3	Vertical	64	2.62
2440MHz	Pass	PK	4.88038G	46.51	74.00	-27.49	3	Vertical	64	2.62
2440MHz	Pass	AV	4.88001G	38.44	54.00	-15.56	3	Horizontal	89	1.50
2440MHz	Pass	PK	4.87953G	47.34	74.00	-26.66	3	Horizontal	89	1.50
2480MHz	Pass	AV	2.48G	90.64	Inf	-Inf	3	Vertical	91	2.87
2480MHz	Pass	AV	2.4918G	46.75	54.00	-7.25	3	Vertical	91	2.87
2480MHz	Pass	PK	2.4798G	91.62	Inf	-Inf	3	Vertical	91	2.87
2480MHz	Pass	PK	2.4896G	59.06	74.00	-14.94	3	Vertical	91	2.87
2480MHz	Pass	AV	2.48G	97.87	Inf	-Inf	3	Horizontal	351	1.50
2480MHz	Pass	AV	2.4974G	46.77	54.00	-7.23	3	Horizontal	351	1.50
2480MHz	Pass	PK	2.4802G	98.72	Inf	-Inf	3	Horizontal	351	1.50
2480MHz	Pass	PK	2.4976G	58.75	74.00	-15.25	3	Horizontal	351	1.50
2480MHz	Pass	AV	4.95975G	36.98	54.00	-17.02	3	Vertical	46	2.88
2480MHz	Pass	PK	4.95994G	47.46	74.00	-26.54	3	Vertical	46	2.88
2480MHz	Pass	AV	4.9599G	37.13	54.00	-16.87	3	Horizontal	88	1.47
2480MHz	Pass	PK	4.95963G	47.91	74.00	-26.09	3	Horizontal	88	1.47

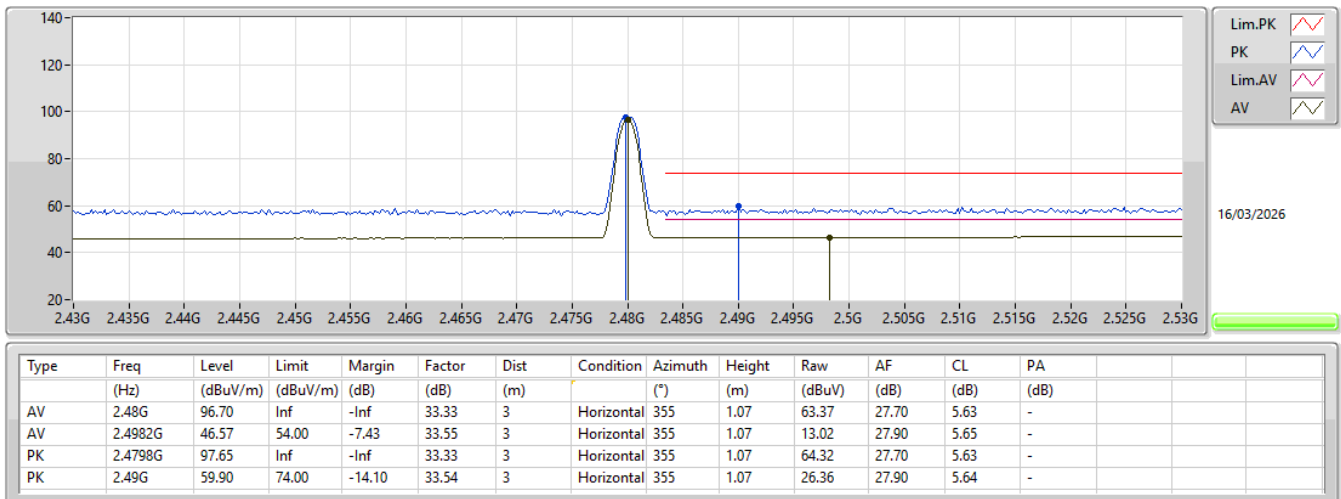
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



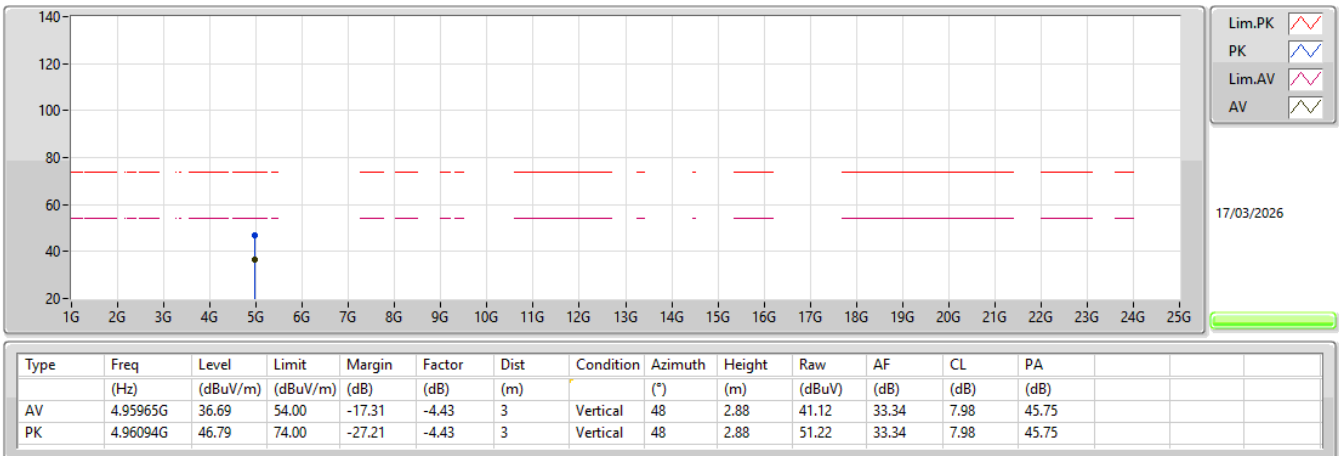
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



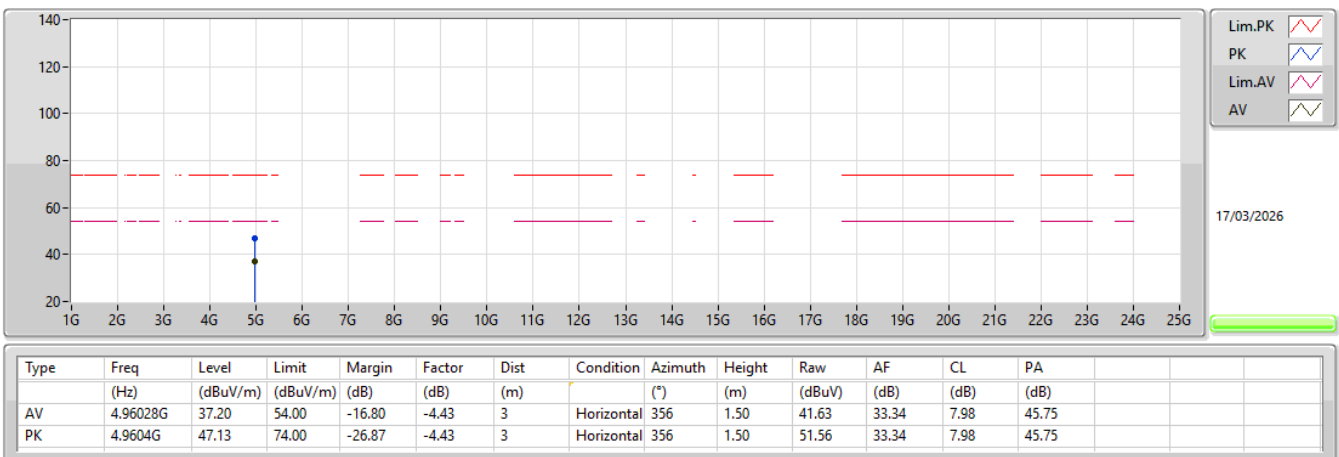
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



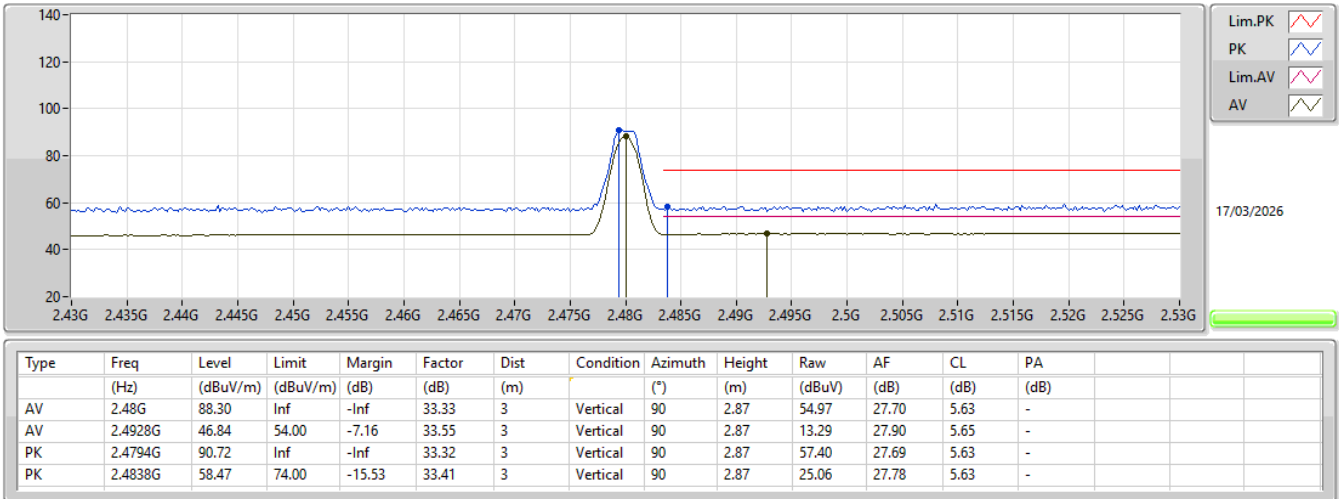
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



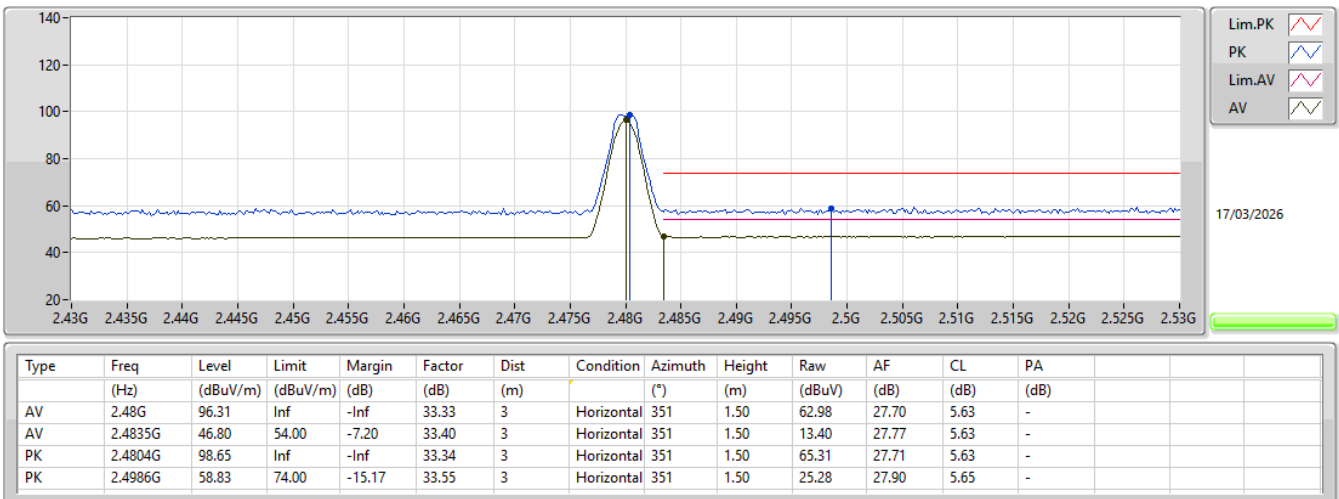
2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



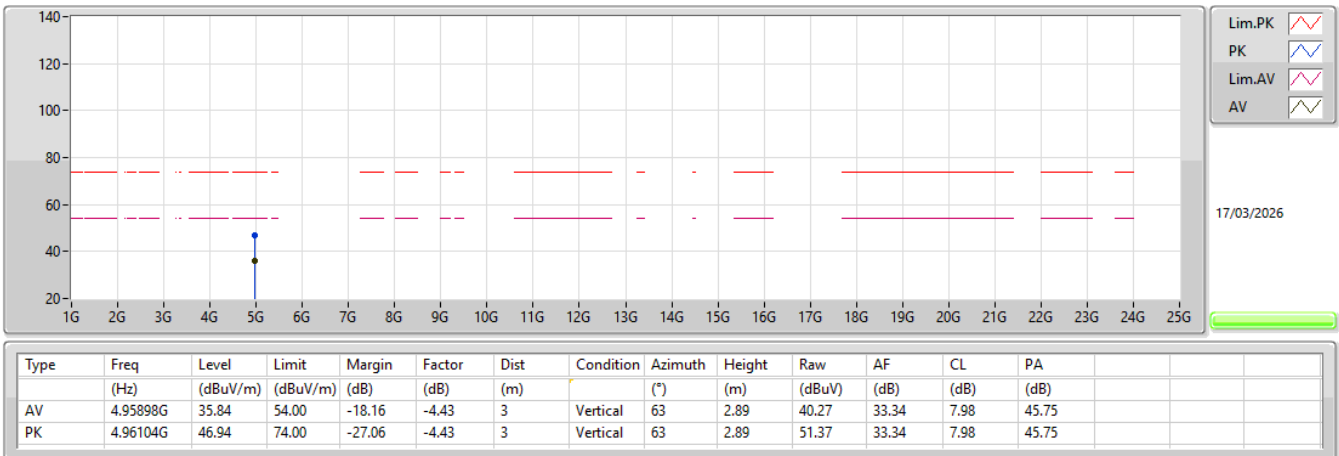
2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



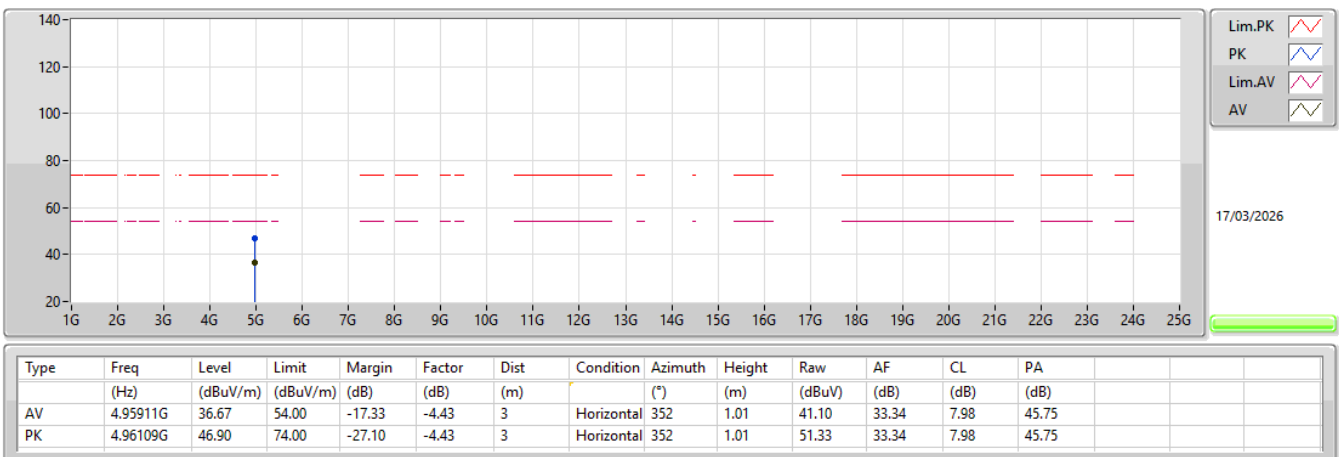
2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



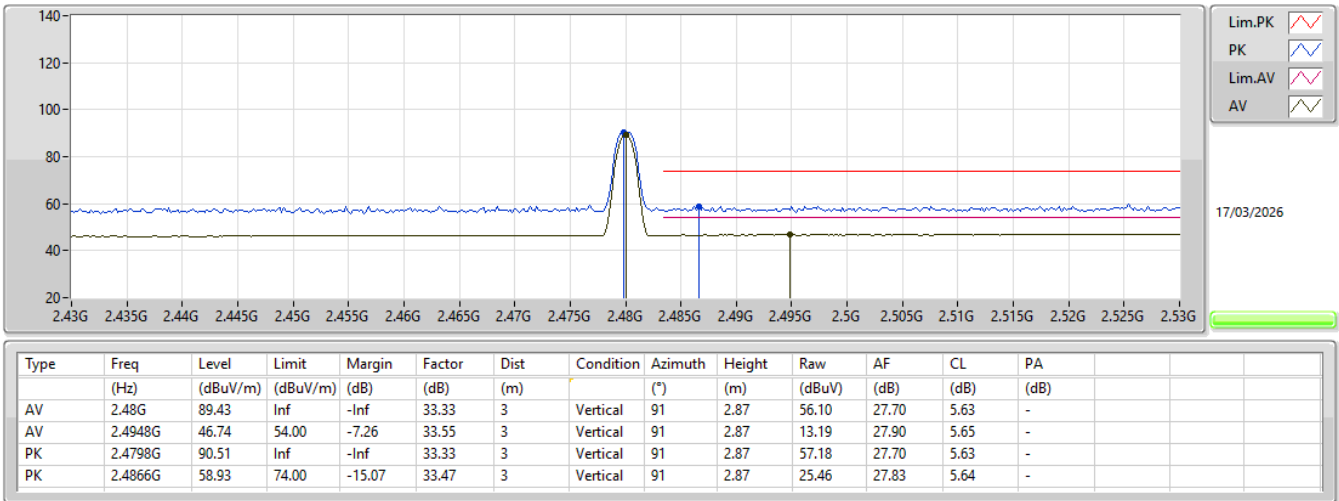
2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



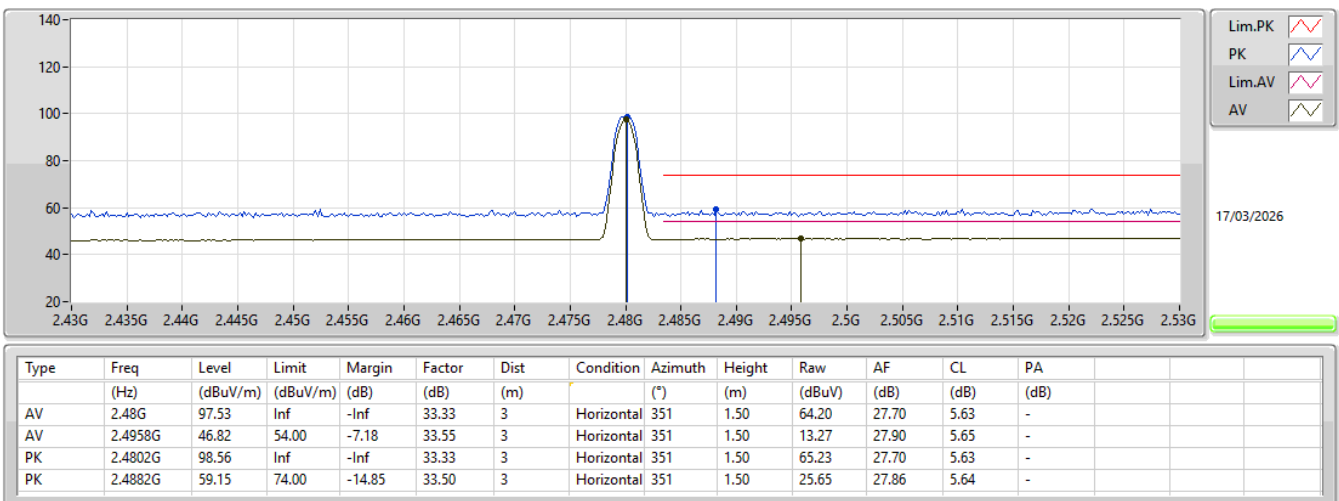
2.4-2.4835GHz_BT-LE(125kbps)

2480MHz_TX



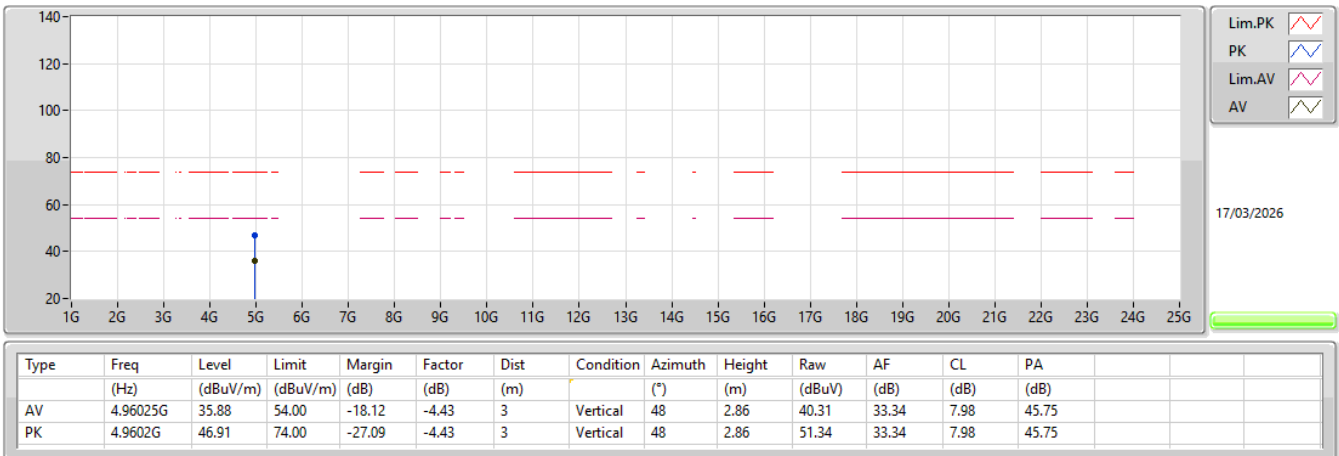
2.4-2.4835GHz_BT-LE(125kbps)

2480MHz_TX



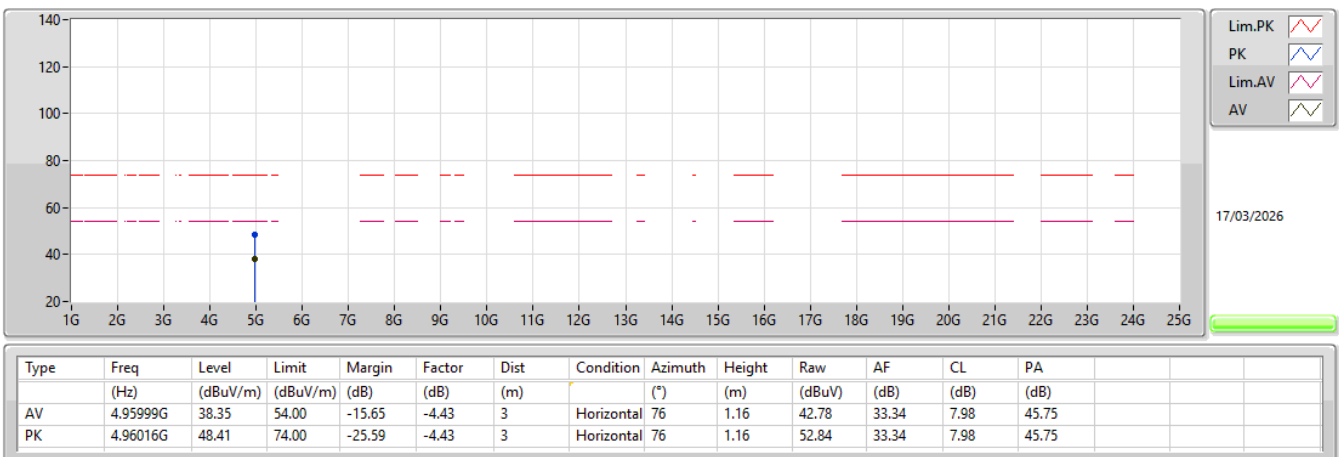
2.4-2.4835GHz_BT-LE(125kbps)

2480MHz_TX



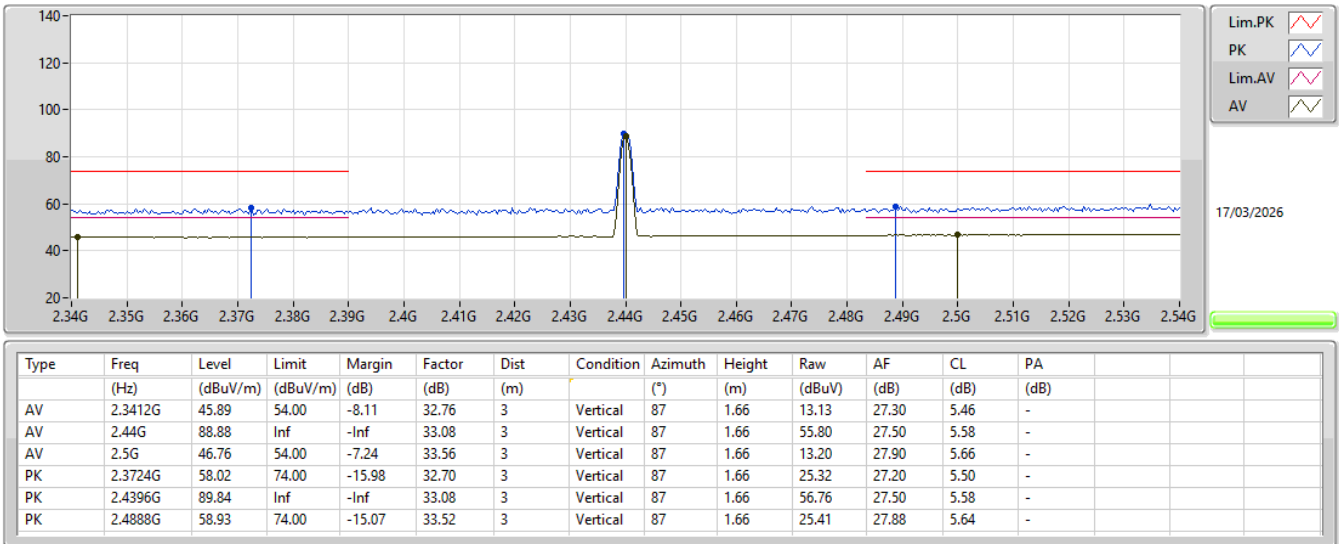
2.4-2.4835GHz_BT-LE(125kbps)

2480MHz_TX



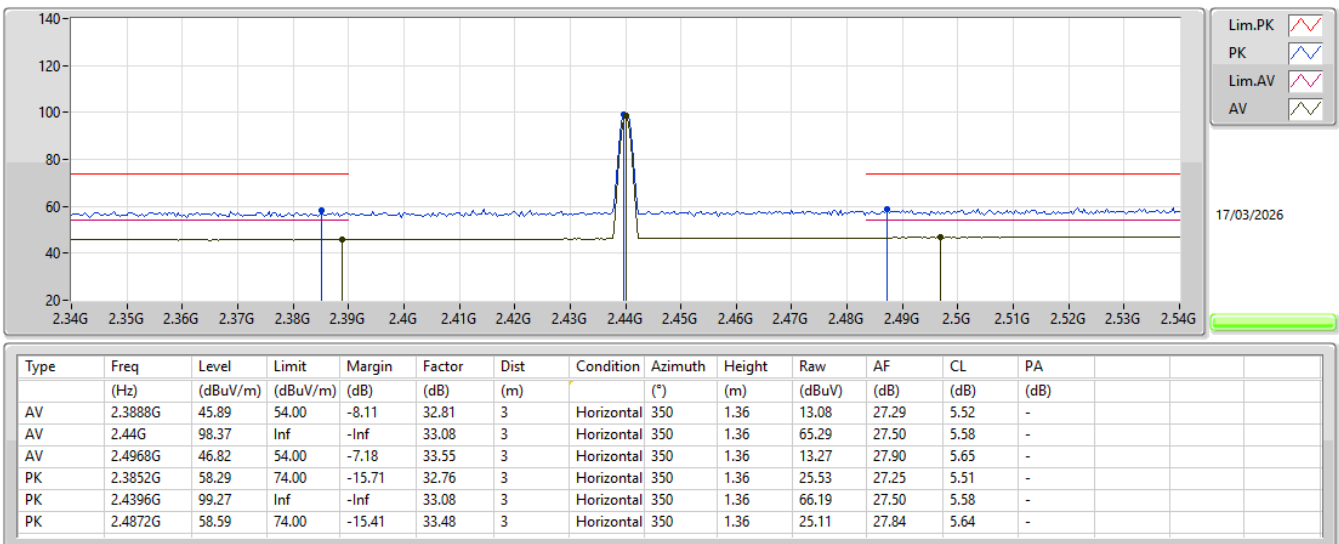
2.4-2.4835GHz_BT-LE(500kpbs)

2440MHz_TX



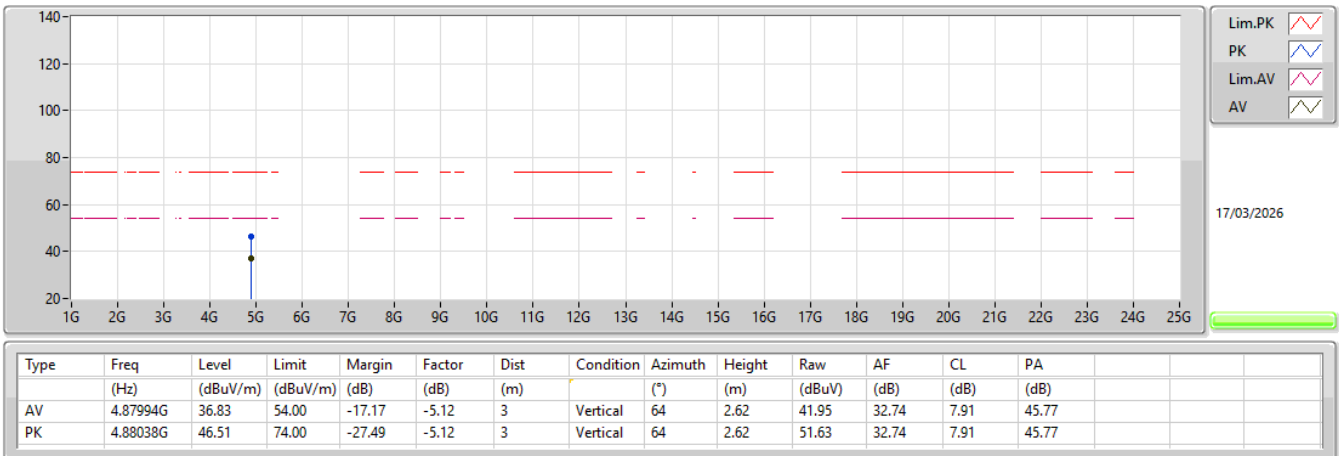
2.4-2.4835GHz_BT-LE(500kpbs)

2440MHz_TX



2.4-2.4835GHz_BT-LE(500kbps)

2440MHz_TX



2.4-2.4835GHz_BT-LE(500kbps)

2440MHz_TX

