

FCC Radio Test Report

FCC ID : YL6-143V716
Equipment : Alarm.com Outdoor 1080p Wi-Fi Video Camera
Brand Name : ALARM.COM
Model Name : ADC-V716
Applicant : Alarm.com Incorporated
8281 Greensboro Drive, Suite 100, Tysons, VA
22102, United States
Manufacturer : Alarm.com Incorporated
8281 Greensboro Drive, Suite 100, Tysons, VA
22102, United States
Standard : 47 CFR FCC Part 15.247

The product was received on Jun. 05, 2026, and testing was started from Jun. 09, 2026 and completed on Jul. 15, 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.)



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 Accessories	11
2.4 Support Equipment.....	11
2.5 Test Setup Diagram	12
3 TRANSMITTER TEST RESULT	13
3.1 AC Power-line Conducted Emissions	13
3.2 20dB Bandwidth and Carrier Frequency Separation.....	15
3.3 Maximum Conducted Output Power	16
3.4 Number of Hopping Frequencies and Hopping Bandedge	17
3.5 Time of Occupancy (Dwell Time)	18
3.6 Emissions in Non-restricted Frequency Bands	19
3.7 Emissions in Restricted Frequency Bands.....	20
4 TEST EQUIPMENT AND CALIBRATION DATA	23
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS	
APPENDIX B. TEST RESULTS OF 20DB BANDWIDTH AND CARRIER FREQUENCY SEPARATION	
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER	
APPENDIX D. TEST RESULTS OF NUMBER OF HOPPING FREQUENCIES AND HOPPING BANDEDGE	
APPENDIX E. TEST RESULTS OF TIME OF OCCUPANCY (DWELL TIME)	
APPENDIX F. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS	
APPENDIX G. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS	
APPENDIX H. TEST RESULTS OF RADIATED EMISSION CO-LOCATION	
APPENDIX I. TEST PHOTOS	
PHOTOGRAPHS OF EUT V01	



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)	20dB Bandwidth	PASS	-
3.2	15.247(a)	Carrier Frequency Separation	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(a)	Number of Hopping Frequencies and Hopping Bandedge	PASS	-
3.5	15.247(a)	Time of Occupancy (Dwell Time)	PASS	-
3.6	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.7	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: Amber Chiu

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Version	Ch. Frequency (MHz)	Channel Number
2400-2483.5	BR / EDR	2402-2480	0-78 [79]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-BR(1Mbps)	1	1TX
2.4-2.4835GHz	BT-EDR(2Mbps)	1	1TX
2.4-2.4835GHz	BT-EDR(3Mbps)	1	1TX

Note:

- ♦ Bluetooth BR uses a GFSK (1Mbps).
- ♦ Bluetooth EDR uses a combination of $\pi/4$ -DQPSK (2Mbps) and 8DPSK (3Mbps).
- ♦ Bluetooth BR/EDR uses as a system using FHSS modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Support	Source
1	1	INPAQ	WA-F-LB-02-399	dipole	I-Pex	2.4G+5G	1
2	2	INPAQ	WA-F-LB-01-138	dipole	I-Pex	2.4G+5G+BT	
3	1	INPAQ	WA-F-LORA-05-001	monopole	I-Pex	Lora	

Ant.	Port	Gain (dBi)						
		2.4G	5G				BT	Lora
			UNII-1	UNII-2A	UNII-2C	UNII-3		
1	1	3.78	3.82	3.81	3.39	3.52	-	-
2	2	3.89	3.65	3.85	3.69	3.74	3.89	-
3	1	-	-	-	-	-	-	1.69

Note 1: The EUT has three antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/n mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For BT function:

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

Ant. 2 (port 2) could transmit/receive.

For Lora function:

For Lora mode (1TX/1RX)

Ant. 3 (port 1) could transmit/receive.

Note 2: Directional gain information

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

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter		
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-BR(1Mbps)	0.789	1.03	2.885m	500
BT-EDR(2Mbps)	0.768	1.15	2.889m	500
BT-EDR(3Mbps)	0.78	1.08	2.892m	500

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	20.6~23.5°C / 53~58%	14/Jul/2026
RF Conducted	TH07-HY	Yulin Chen	24.2~24.5°C / 55~59%	15/Jul/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	03CH25-HY	Andy Wang	22.2~24.3°C / 54~57%	09/Jun/2026~02/Jul/2026
Radiated (Co-location)	03CH25-HY	Rian Chung	21.6~24.3°C / 54~58%	09/Jul/2026~10/Jul/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	3.24 dB	Confidence levels of 95%
Conducted Output Power	1.12 dB	Confidence levels of 95%
Bandwidth	0.07 MHz	Confidence levels of 95%
Conducted Emission	1.12 dB	Confidence levels of 95%
Radiated Emission (9 kHz ~ 30 MHz)	1.22 dB	Confidence levels of 95%
Radiated Emission (30 MHz ~ 1 GHz)	1.76 dB	Confidence levels of 95%
Radiated Emission (1 GHz ~ 18 GHz)	5.38 dB	Confidence levels of 95%
Radiated Emission (18 GHz ~ 40 GHz)	4.94 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	PuTTY Release 0.72
Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-EDR(2Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-EDR(3Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default

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	Adapter mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	20dB Bandwidth Carrier Frequency Separation Maximum Conducted Output Power Number of Hopping Frequencies Hopping Bandedge Time of Occupancy (Dwell Time) Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains ☒ Non-adaptive frequency hopping systems (Non-AFH) ☒ adaptive frequency hopping systems (AFH)
Non-AFH Mode configuration was found to be the worst case and measured during the test.	

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	Adapter 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	WLAN 2.4GHz + LORA
2	WLAN 5GHz + LORA
Refer to Sporton Test Report No.: FA660507 for Co-location RF Exposure Evaluation and Appendix H for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
AC Adapter	Brand Name	PYS High-Tech Co., LTD	Model Name	PYS-12UP120100U
	Manufacturer	PYS High-Tech Co., LTD	SN	-
	Power Rating	I/P: 100-240Vac, 0.5 A, O/P: 12Vdc, 1 A		
	Power Cord	3 meter, non-shielded cable, w/o ferrite core		

Reminder: Regarding to more detail and other information, please refer to user manual.

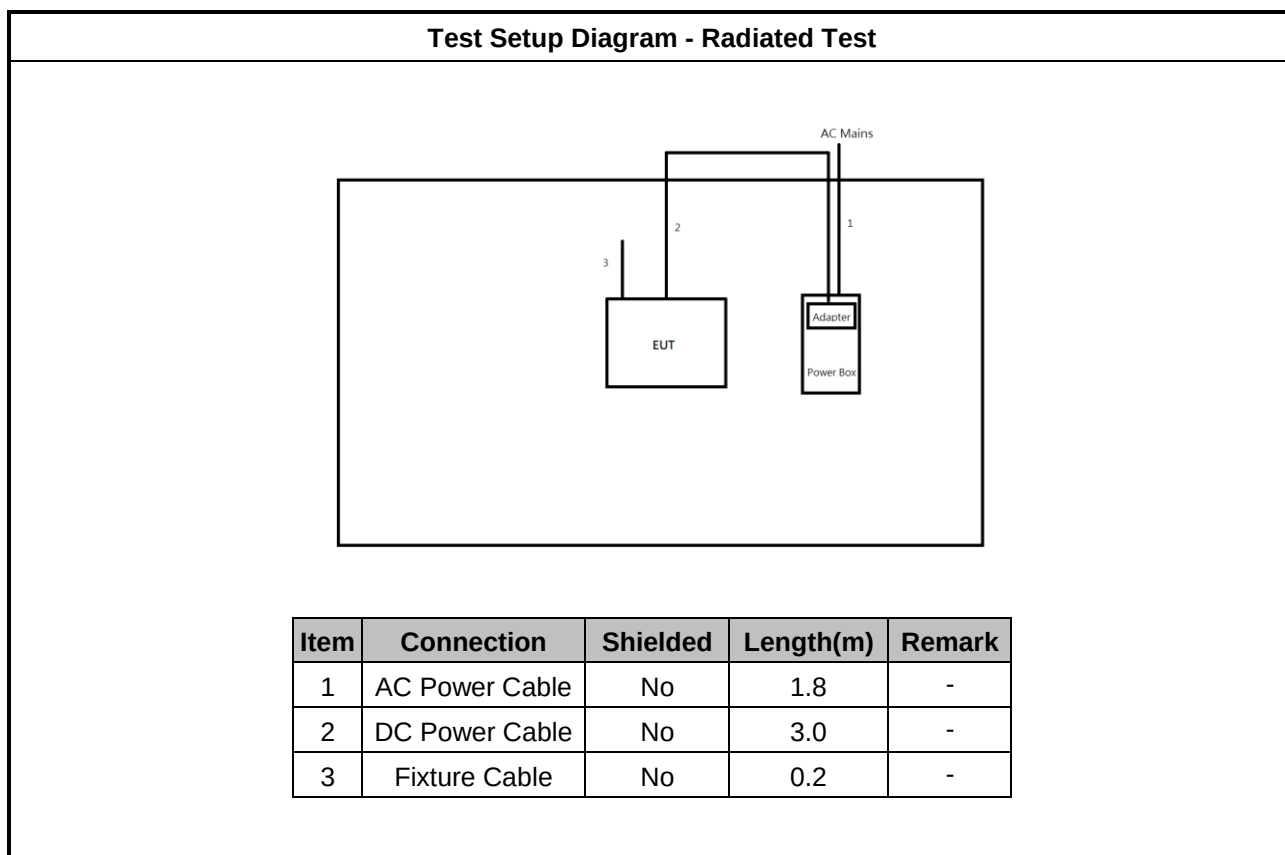
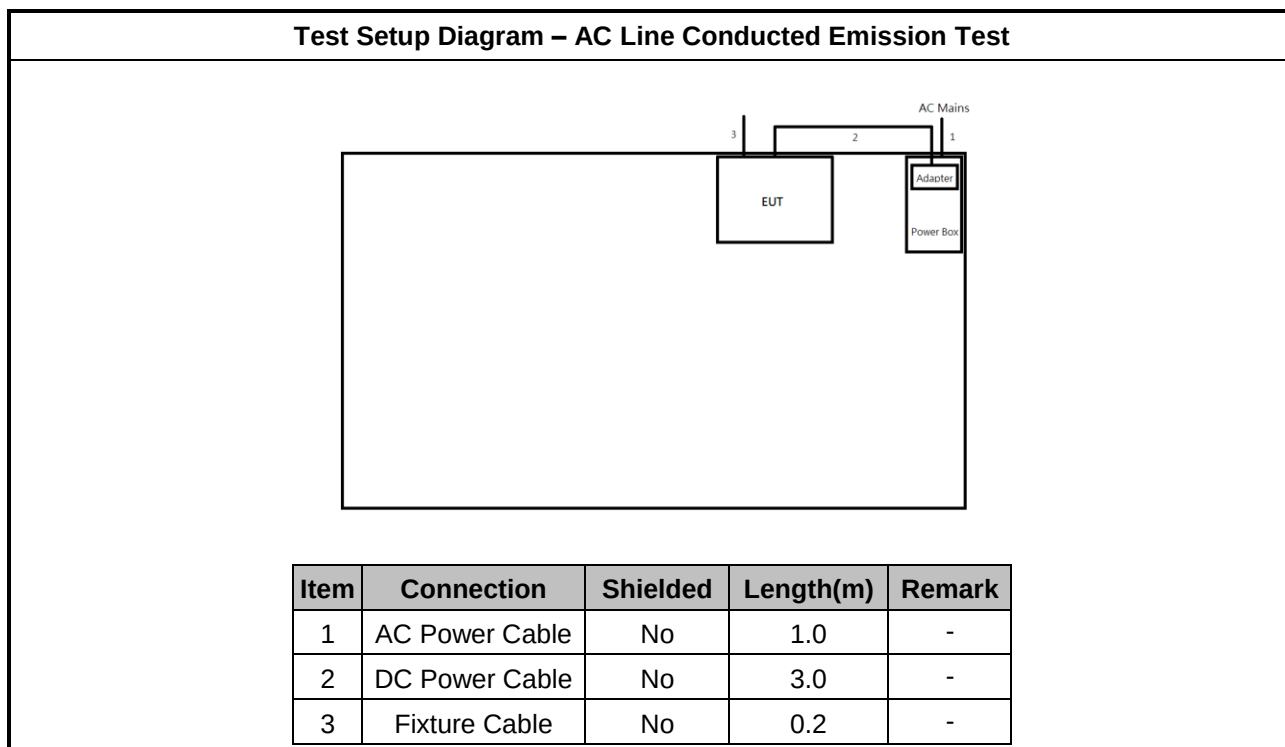
2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Fixture Cable	-	-	-	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 Cable	-	-	-	Provided by Customer

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Fixture Cable	-	-	-	Provided by Customer

2.5 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

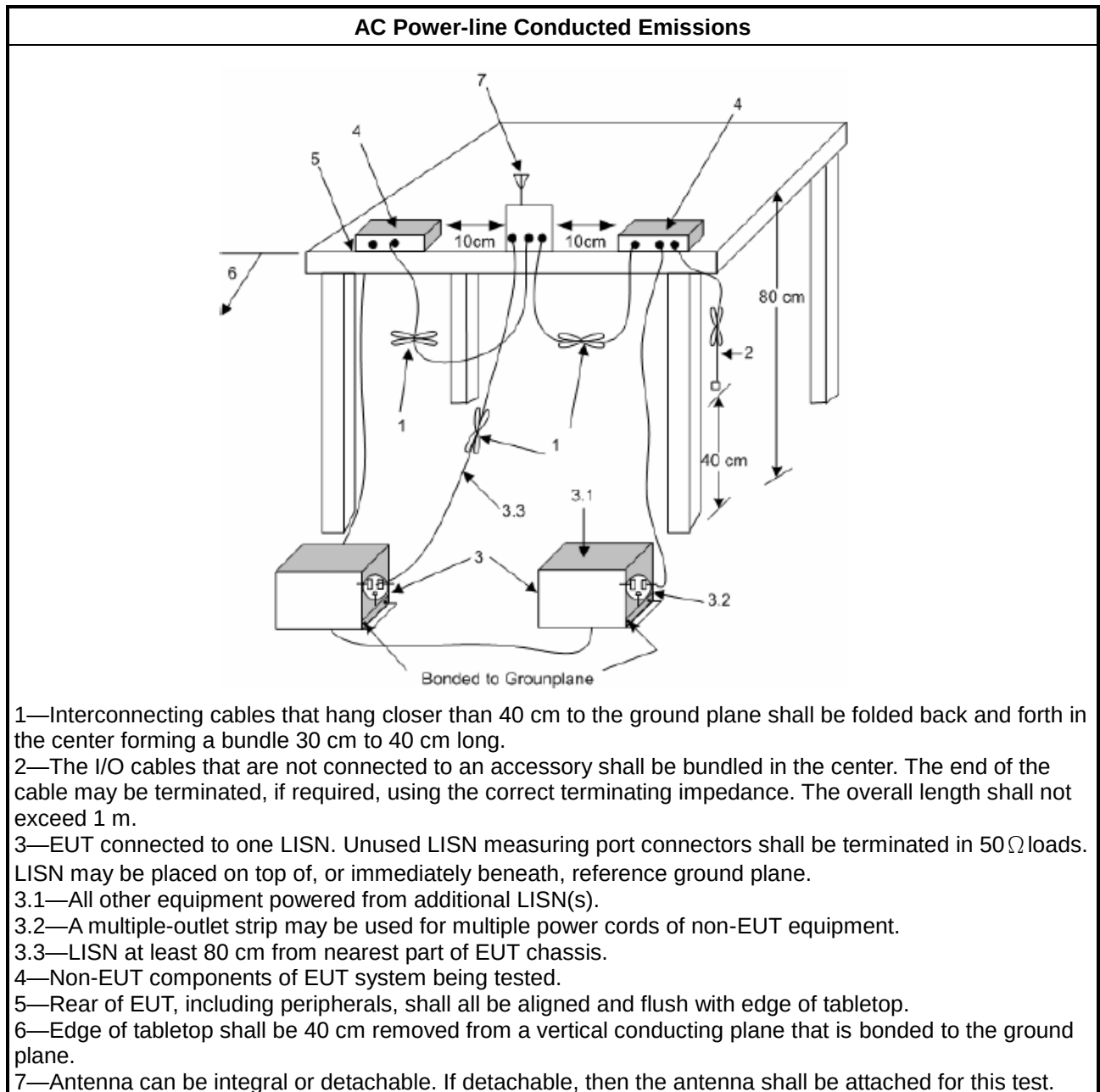
Test Method
Refer as ANSI C63.10, clause 6.2 for AC power-line conducted emissions.

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 20dB Bandwidth and Carrier Frequency Separation

3.2.1 20dB Bandwidth and Carrier Frequency Separation Limit

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
▪	2400-2483.5 MHz Band:
	▪ $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	▪ $75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

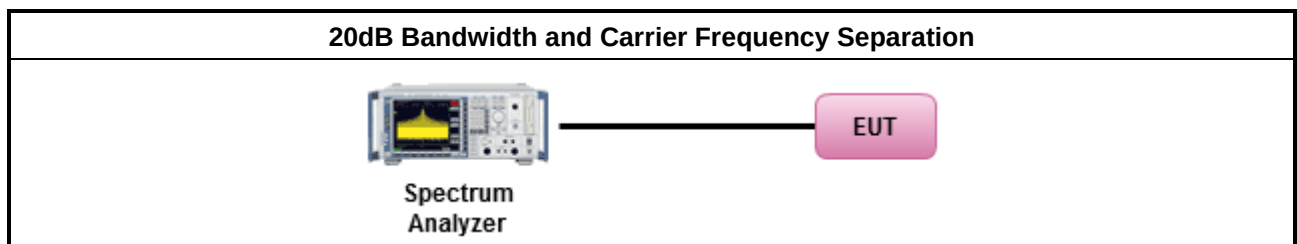
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10, clause 6.9.2 for 20 dB bandwidth measurement.
▪ Refer as ANSI C63.10, clause 7.8.2 for carrier frequency separation measurement.

3.2.4 Test Setup



3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$; Power 30dBm; EIRP 36dBm
	▪ $75 > N \geq 15$; Power 21dBm; EIRP 27dBm
N: Number of Hopping Frequencies	

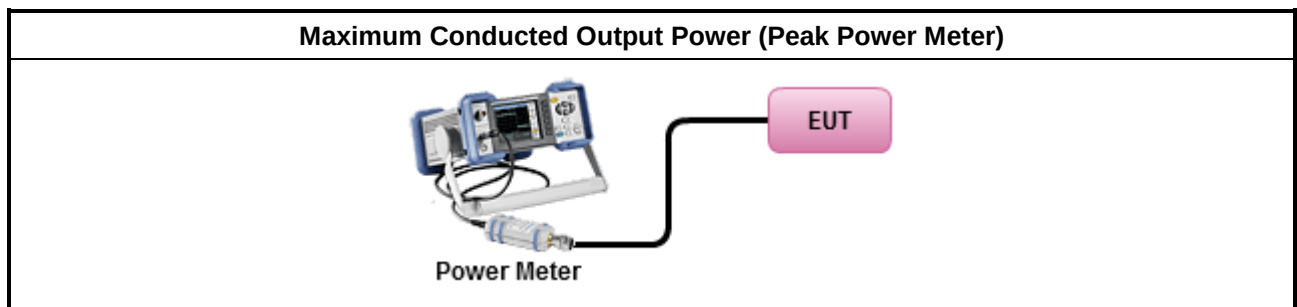
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10, clause 7.8.5 for output power measurement.

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Number of Hopping Frequencies and Hopping Bandedge

3.4.1 Number of Hopping Frequencies Limit

Number of Hopping Frequencies Limit	
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	▪ $75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
N: Number of Hopping Frequencies; ChS : Hopping Channel Separation	

3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

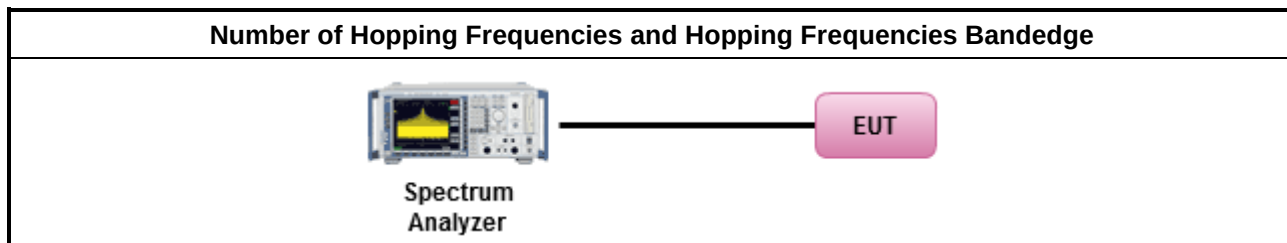
3.4.3 Measuring Instruments

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

3.4.4 Test Procedures

Test Method
▪ Refer as ANSI C63.10, clause 7.8.3 for number of hopping frequencies measurement.
▪ Refer as ANSI C63.10, clause 7.8.7.2 for hopping frequencies Bandedge measurement.

3.4.5 Test Setup



3.4.6 Test Result of Number of Hopping Frequencies

Refer as Appendix D

3.4.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix D

3.5 Time of Occupancy (Dwell Time)

3.5.1 Time of Occupancy (Dwell Time) Limit

Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems	
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$; 0.4s in $N \times 0.4$ period
	▪ $75 > N \geq 15$; 0.4s in $N \times 0.4$ period
N: Number of Hopping Frequencies	

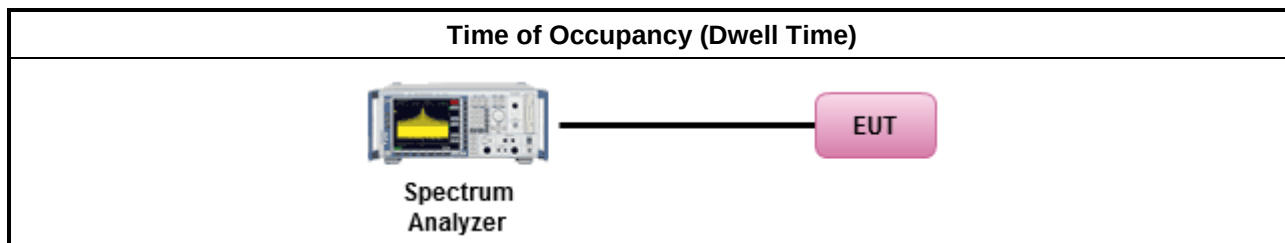
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
▪ Refer as ANSI C63.10, clause 7.8.4 for dwell time measurement.	
▪ Bluetooth ACL packets can be 1, 3, or 5 time slots. Following as dwell time. Operate DH5 at maximum dwell time and maximum duty cycle.	
	▪ The DH5 packet can cover up to 5 time slots. Operate DH5 at maximum dwell time and maximum duty cycle. A maximum length packet has duration of 5 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is $5/1600$ seconds, or 3.125ms. DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel.

3.5.4 Test Setup



3.5.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix E

3.6 Emissions in Non-restricted Frequency Bands

3.6.1 Emissions in Non-restricted Frequency Bands Limit

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

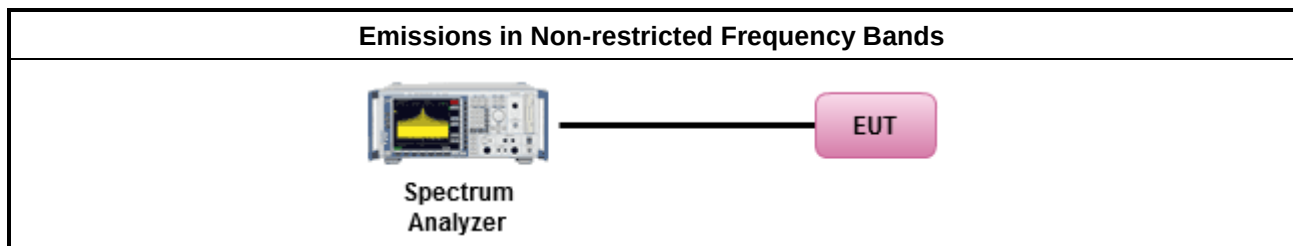
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method
Refer as ANSI C63.10, clause 7.8.7 for unwanted emissions into non-restricted bands.

3.6.4 Test Setup



3.6.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix F

3.7 Emissions in Restricted Frequency Bands

3.7.1 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.

3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

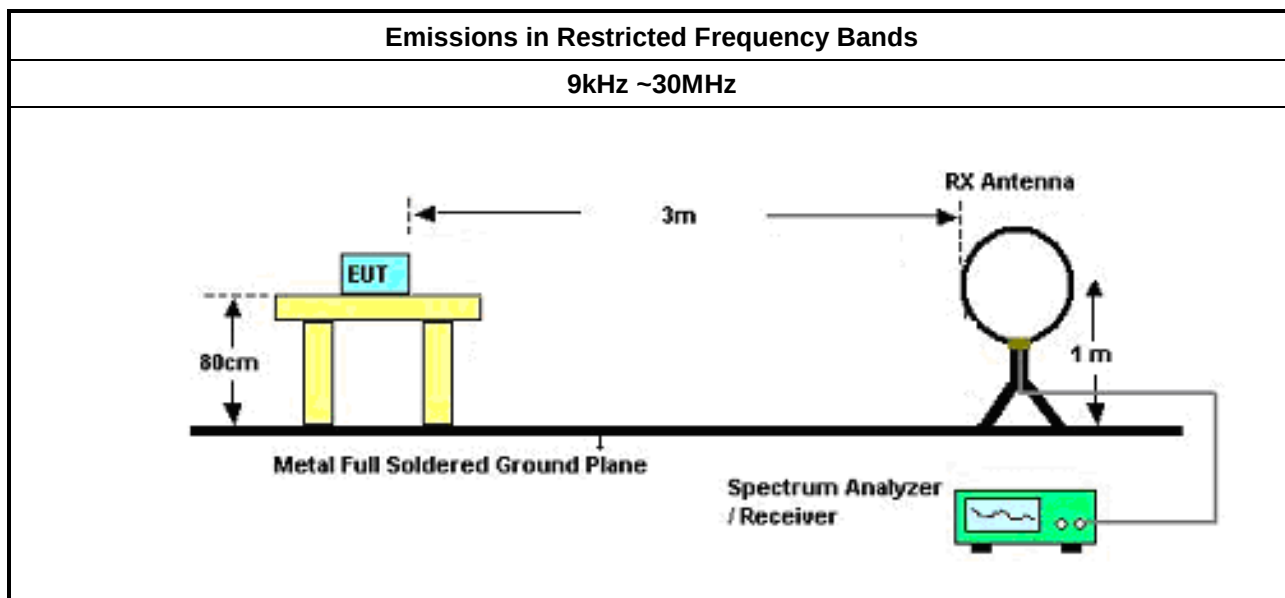
Test Method	
- The average emission levels shall be measured in [hopping duty factor]. - Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band. - For the transmitter unwanted emissions shall be measured using following options below: - Refer as ANSI C63.10, clause 4.1.5.2.1 QP value. - Refer as ANSI C63.10, clause 4.1.5.2.2 measurement procedure peak. - Refer as ANSI C63.10, clause 4.1.5.2.5 average value of hopping pulsed emissions. - 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.	

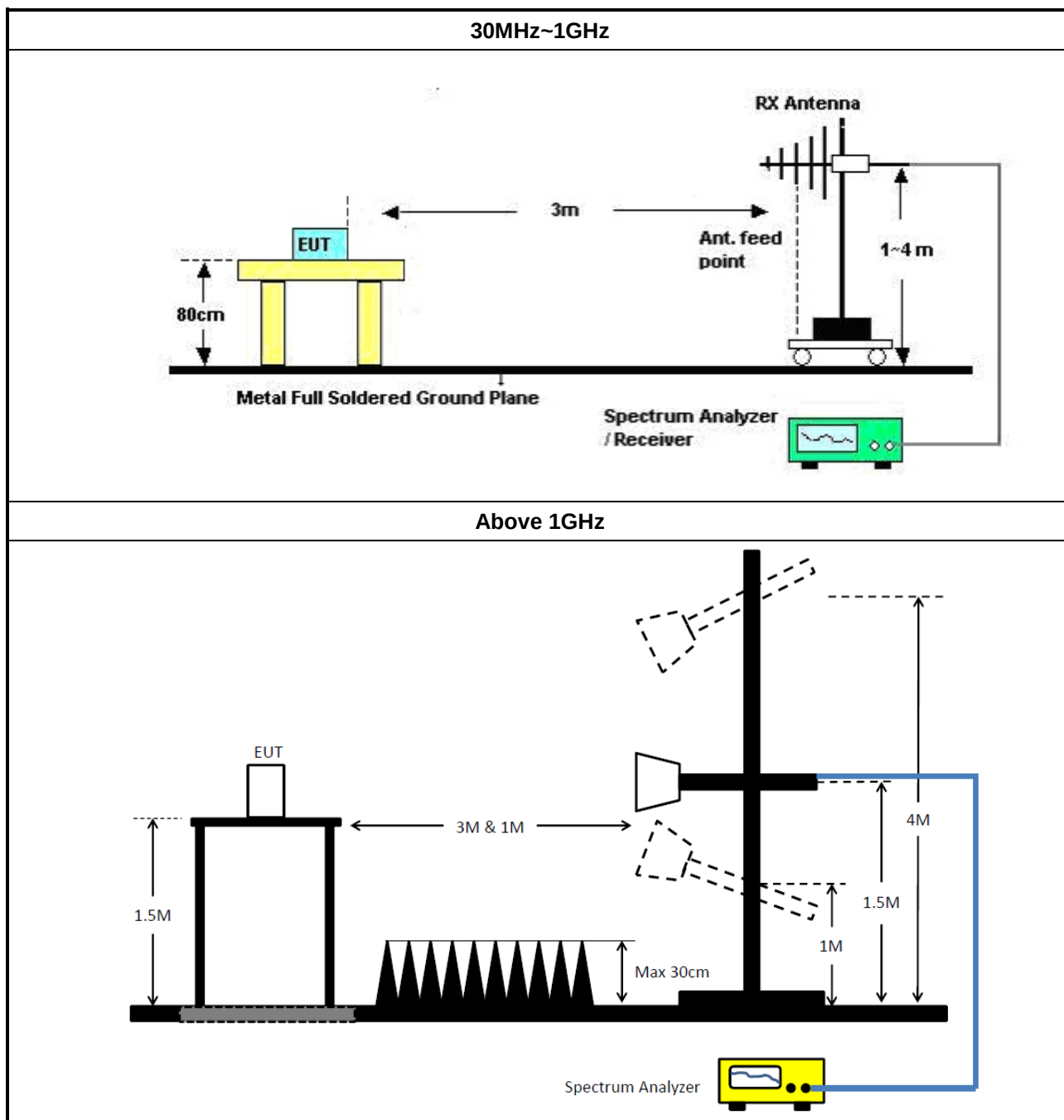
3.7.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.7.5 Test Setup





3.7.6 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.

3.7.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix G

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	05/Jun/2026	04/Jun/2027
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-F	9561-F041	9kHz ~ 30MHz	27/Oct/2025	26/Oct/2026
Software	Sporton	SENSE-EMI	V5.11.6	-	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	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	V5.11.28	N/A	N/A	N/A	N/A

**Instrument for Radiated Test (03CH25-HY)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	30MHz~1GHz 3m	18/Jul/2025	17/Jul/2026
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	1GHz~18GHz 3m	07/Aug/2025	06/Aug/2026
ESR7 EMI Test Receiver	ROHDE & SCHWARZ	ESR7	102956	9kHz~3.6GHz	26/Aug/2025	25/Aug/2026
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101410	10Hz~44GHz	19/Nov/2025	18/Nov/2026
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2026	15/Mar/2027
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63537/001	30MHz~1GHz	22/May/2026	21/May/2027
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1534	1GHz~18GHz	11/Mar/2026	10/Mar/2027
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	07/Oct/2025	06/Oct/2026
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	9kHz~1GHz	22/Apr/2026	21/Apr/2027
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	1GHz~40GHz	10/Feb/2026	09/Feb/2027
Preamplifier	SGH	PRAMP 903	20230515-1	25MHz~3GHz	20/May/2026	19/May/2027
Preamplifier	SGH	PRAMP 118-H	20230515-3	1GHz~18GHz	20/May/2026	19/May/2027
Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	27/Apr/2026	26/Apr/2027
SENSE-15247-FS	Sporton	V5.11.24	NA	NA	NA	NA

Instrument for Radiated Test (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	1GHz~18GHz 3m	07/Aug/2025	06/Aug/2026
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101410	10Hz~44GHz	19/Nov/2025	18/Nov/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02876	1GHz~18GHz	29/Jun/2026	28/Jun/2027
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	07/Oct/2025	06/Oct/2026
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	1GHz~40GHz	10/Feb/2026	09/Feb/2027
Preamplifier	SGH	PRAMP 118-H	20230515-3	1GHz~18GHz	20/May/2026	19/May/2027
Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	27/Apr/2026	26/Apr/2027
SENSE-EMI	Sporton	V5.11.6	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

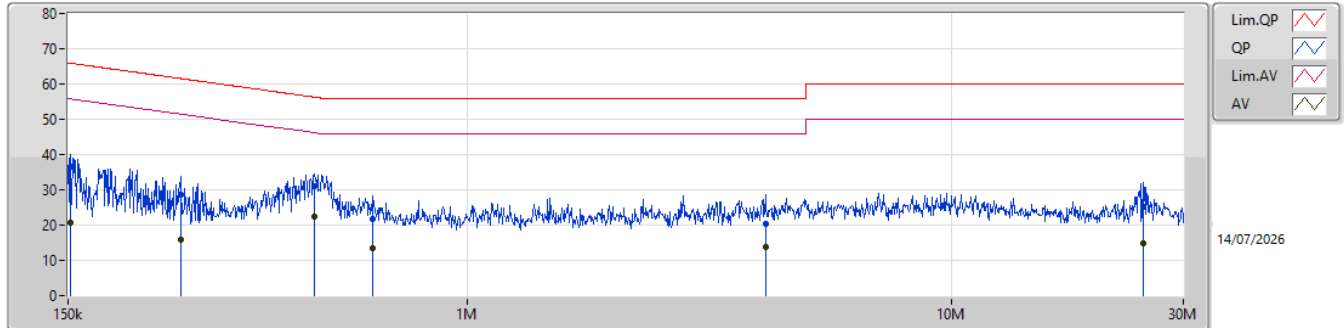
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	492.88k	36.44	46.11	-9.67	Neutral

Result

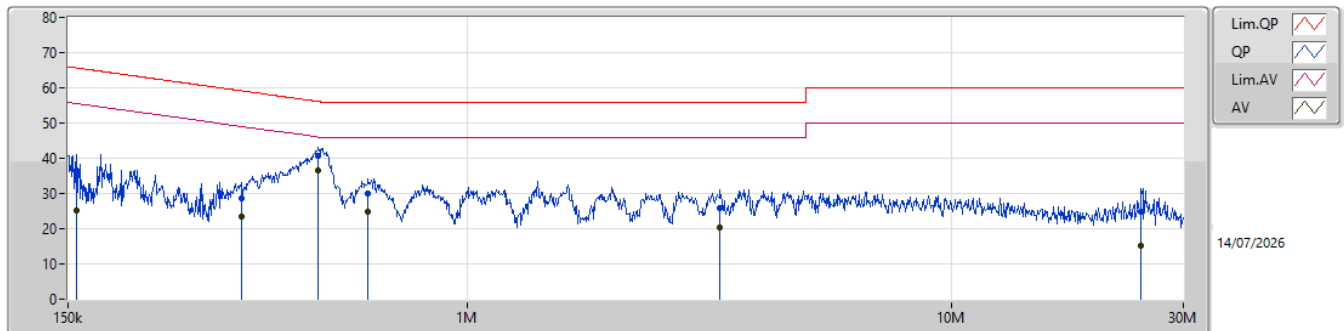
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	151.81k	36.67	65.90	-29.23	Line
Mode 1	Pass	AV	151.81k	20.77	55.90	-35.13	Line
Mode 1	Pass	QP	256.1k	28.60	61.56	-32.96	Line
Mode 1	Pass	AV	256.1k	15.70	51.56	-35.86	Line
Mode 1	Pass	QP	483.14k	31.01	56.29	-25.28	Line
Mode 1	Pass	AV	483.14k	22.26	46.29	-24.03	Line
Mode 1	Pass	QP	638.89k	21.56	56.00	-34.44	Line
Mode 1	Pass	AV	638.89k	13.31	46.00	-32.69	Line
Mode 1	Pass	QP	4.12M	20.25	56.00	-35.75	Line
Mode 1	Pass	AV	4.12M	13.74	46.00	-32.26	Line
Mode 1	Pass	QP	24.75M	25.04	60.00	-34.96	Line
Mode 1	Pass	AV	24.75M	14.83	50.00	-35.17	Line
Mode 1	Pass	QP	156.11k	36.62	65.67	-29.05	Neutral
Mode 1	Pass	AV	156.11k	25.13	55.67	-30.54	Neutral
Mode 1	Pass	QP	341.38k	28.46	59.17	-30.71	Neutral
Mode 1	Pass	AV	341.38k	23.59	49.17	-25.58	Neutral
Mode 1	Pass	QP	492.88k	40.83	56.11	-15.28	Neutral
Mode 1	Pass	AV	492.88k	36.44	46.11	-9.67	Neutral
Mode 1	Pass	QP	623.77k	30.14	56.00	-25.86	Neutral
Mode 1	Pass	AV	623.77k	24.75	46.00	-21.25	Neutral
Mode 1	Pass	QP	3.32M	25.98	56.00	-30.02	Neutral
Mode 1	Pass	AV	3.32M	20.32	46.00	-25.68	Neutral
Mode 1	Pass	QP	24.55M	24.70	60.00	-35.30	Neutral
Mode 1	Pass	AV	24.55M	15.31	50.00	-34.69	Neutral

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	151.81k	36.67	65.90	-29.23	19.79	Line	16.88	9.64	0.17	9.98								
AV	151.81k	20.77	55.90	-35.13	19.79	Line	0.98	9.64	0.17	9.98								
QP	256.1k	28.60	61.56	-32.96	19.77	Line	8.83	9.64	0.12	10.01								
AV	256.1k	15.70	51.56	-35.86	19.77	Line	-4.07	9.64	0.12	10.01								
QP	483.14k	31.01	56.29	-25.28	19.74	Line	11.27	9.63	0.09	10.02								
AV	483.14k	22.26	46.29	-24.03	19.74	Line	2.52	9.63	0.09	10.02								
QP	638.89k	21.56	56.00	-34.44	19.76	Line	1.80	9.64	0.08	10.04								
AV	638.89k	13.31	46.00	-32.69	19.76	Line	-6.45	9.64	0.08	10.04								
QP	4.12M	20.25	56.00	-35.75	19.84	Line	0.41	9.66	0.13	10.05								
AV	4.12M	13.74	46.00	-32.26	19.84	Line	-6.10	9.66	0.13	10.05								
QP	24.75M	25.04	60.00	-34.96	19.84	Line	5.20	9.52	0.44	9.88								
AV	24.75M	14.83	50.00	-35.17	19.84	Line	-5.01	9.52	0.44	9.88								

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	156.11k	36.62	65.67	-29.05	19.79	Neutral	16.83	9.64	0.17	9.98								
AV	156.11k	25.13	55.67	-30.54	19.79	Neutral	5.34	9.64	0.17	9.98								
QP	341.38k	28.46	59.17	-30.71	19.74	Neutral	8.72	9.63	0.11	10.00								
AV	341.38k	23.59	49.17	-25.58	19.74	Neutral	3.85	9.63	0.11	10.00								
QP	492.88k	40.83	56.11	-15.28	19.74	Neutral	21.09	9.63	0.09	10.02								
AV	492.88k	36.44	46.11	-9.67	19.74	Neutral	16.70	9.63	0.09	10.02								
QP	623.77k	30.14	56.00	-25.86	19.76	Neutral	10.38	9.63	0.09	10.04								
AV	623.77k	24.75	46.00	-21.25	19.76	Neutral	4.99	9.63	0.09	10.04								
QP	3.32M	25.98	56.00	-30.02	19.79	Neutral	6.19	9.66	0.11	10.02								
AV	3.32M	20.32	46.00	-25.68	19.79	Neutral	0.53	9.66	0.11	10.02								
QP	24.55M	24.70	60.00	-35.30	20.01	Neutral	4.69	9.69	0.43	9.89								
AV	24.55M	15.31	50.00	-34.69	20.01	Neutral	-4.70	9.69	0.43	9.89								



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-BR(1Mbps)	1.026M	894.553k	895KF1D	913k	867.066k
BT-EDR(2Mbps)	1.359M	1.194M	1M19G1D	1.29M	1.177M
BT-EDR(3Mbps)	1.337M	1.186M	1M19G1D	1.273M	1.183M

Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.026M	882.059k
2440MHz	Pass	Inf	913k	867.066k
2480MHz	Pass	Inf	962.5k	894.553k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.312M	1.188M
2440MHz	Pass	Inf	1.29M	1.194M
2480MHz	Pass	Inf	1.359M	1.177M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.337M	1.186M
2440MHz	Pass	Inf	1.273M	1.183M
2480MHz	Pass	Inf	1.29M	1.186M

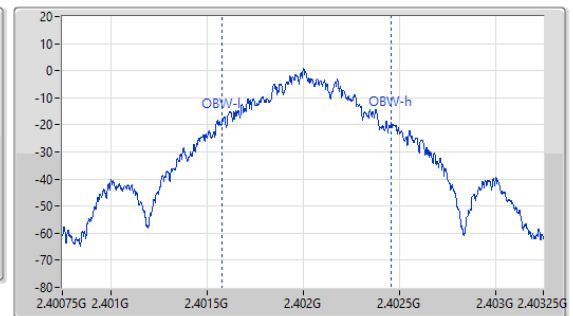
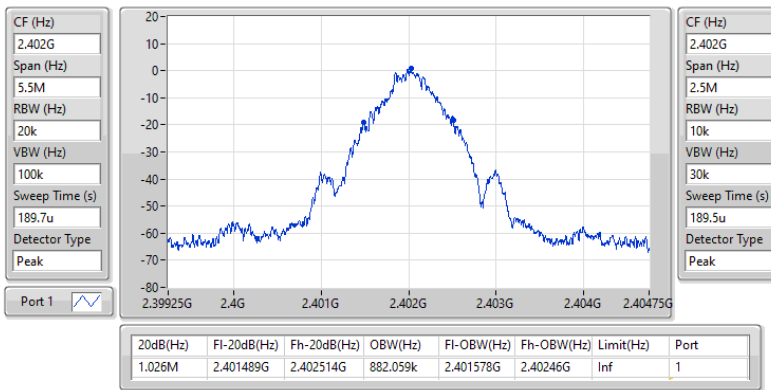
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-BR(1Mbps)

EBW-FS

2402MHz

15/07/2026

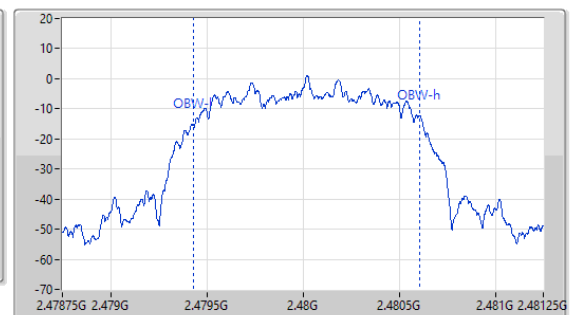
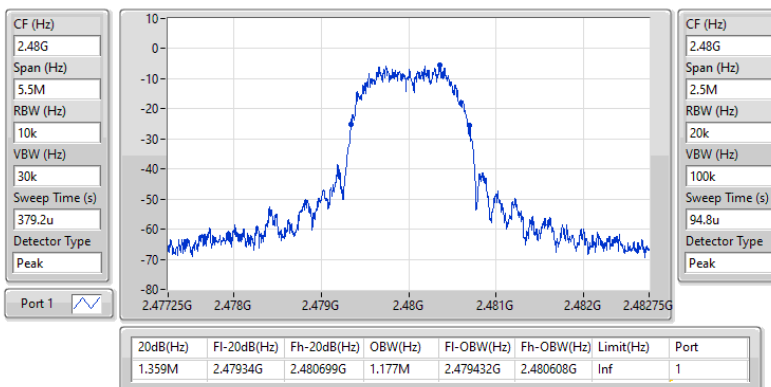


2.4-2.4835GHz_BT-EDR(2Mbps)

EBW-FS

2480MHz

15/07/2026

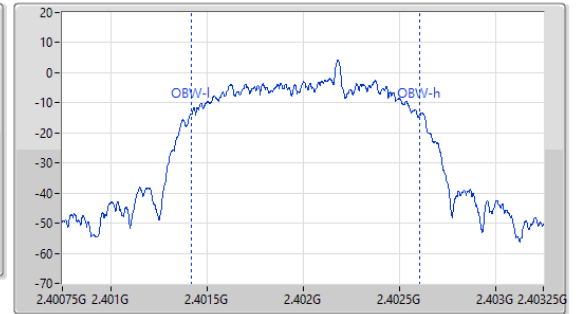
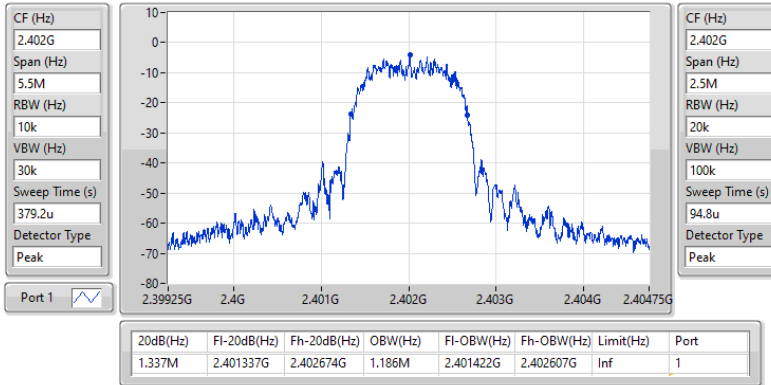


2.4-2.4835GHz_BT-EDR(3Mbps)

EBW-FS

2402MHz

15/07/2026





Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.002M	1.0005M
BT-EDR(2Mbps)	1.0005M	997.5k
BT-EDR(3Mbps)	1.002M	999k

Result

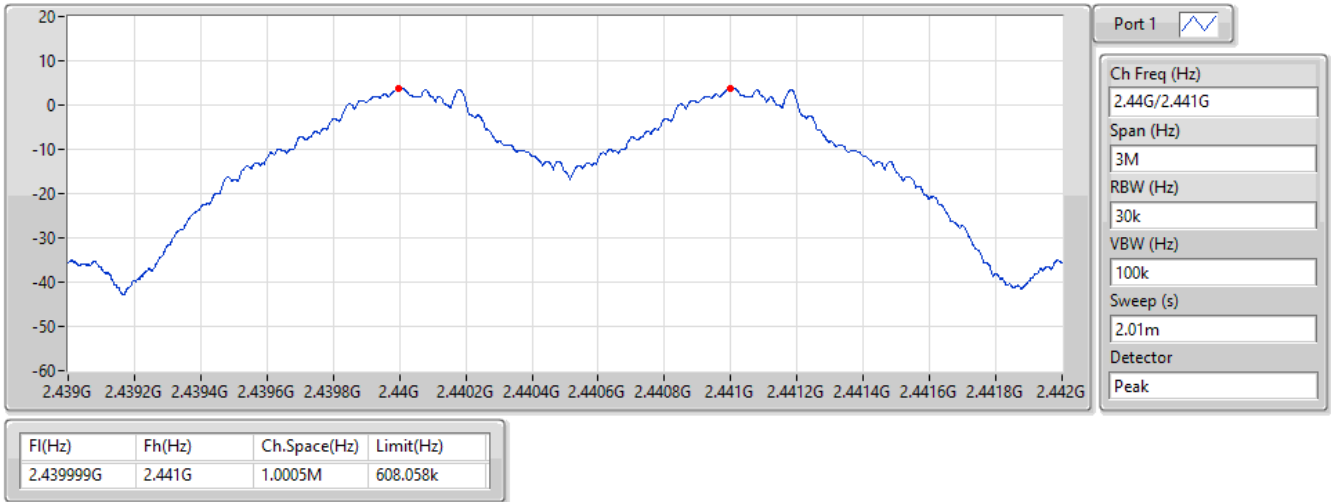
Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.401999G	2.403001G	1.002M	683.316k
2440MHz	Pass	2.439999G	2.441G	1.0005M	608.058k
2480MHz	Pass	2.478999G	2.480001G	1.002M	641.025k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402013G	2.40301G	997.5k	873.792k
2440MHz	Pass	2.440008G	2.441009G	1.0005M	859.14k
2480MHz	Pass	2.479008G	2.480007G	999k	905.094k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402182G	2.403181G	999k	890.442k
2440MHz	Pass	2.440181G	2.441183G	1.002M	847.818k
2480MHz	Pass	2.479182G	2.480181G	999k	859.14k

2.4-2.4835GHz_BT-BR(1Mbps)

Channel Separation-FS

2.44G/2.441GHz

15/07/2026

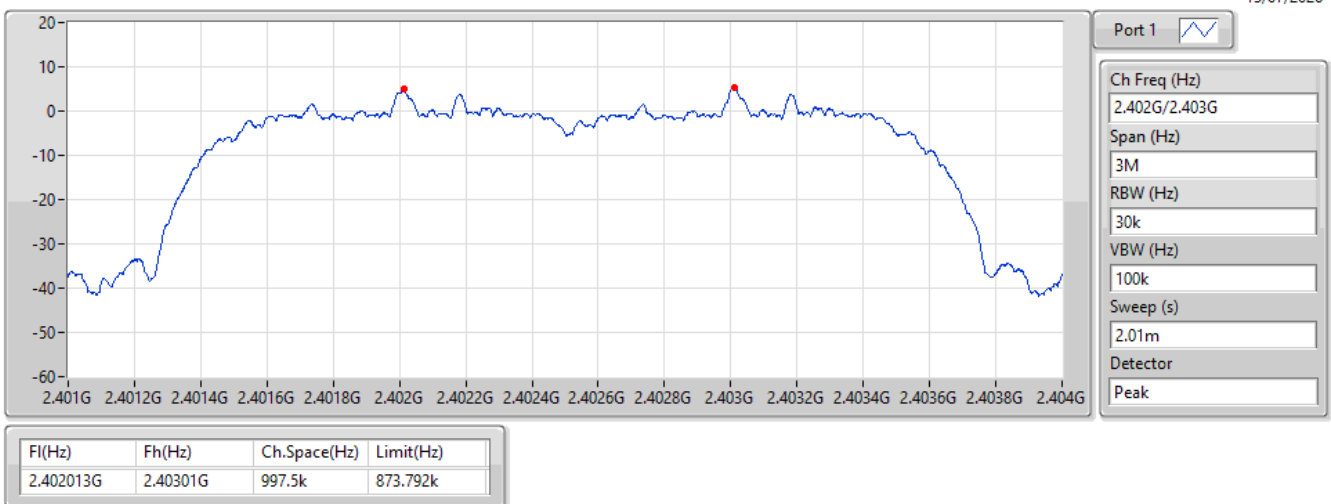


2.4-2.4835GHz_BT-EDR(2Mbps)

Channel Separation-FS

2.402G/2.403GHz

15/07/2026

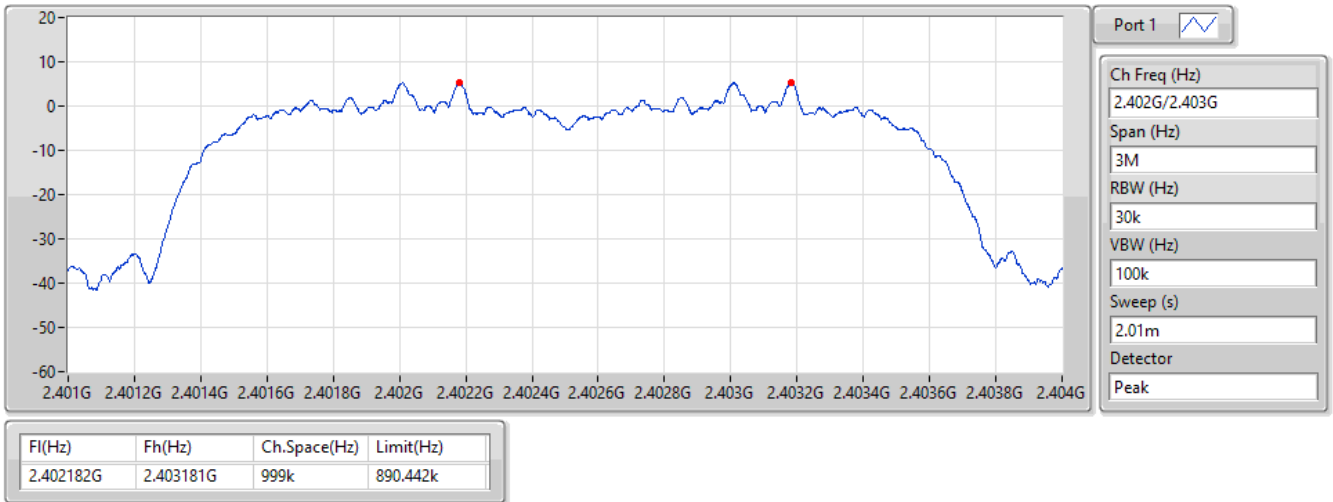


2.4-2.4835GHz_BT-EDR(3Mbps)

Channel Separation-FS

2.402G/2.403GHz

15/07/2026





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	6.64	0.00461
BT-EDR(2Mbps)	8.99	0.00793
BT-EDR(3Mbps)	9.50	0.00891

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.89	6.64	21.00
2440MHz	Pass	3.89	5.68	21.00
2480MHz	Pass	3.89	5.60	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.89	8.99	21.00
2440MHz	Pass	3.89	7.81	21.00
2480MHz	Pass	3.89	7.89	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.89	9.50	21.00
2440MHz	Pass	3.89	8.39	21.00
2480MHz	Pass	3.89	8.45	21.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	6.41	0.00438
BT-EDR(2Mbps)	6.31	0.00428
BT-EDR(3Mbps)	6.32	0.00429

**Result**

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.89	6.41	21.00
2440MHz	Pass	3.89	5.43	21.00
2480MHz	Pass	3.89	5.33	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.89	6.31	21.00
2440MHz	Pass	3.89	5.16	21.00
2480MHz	Pass	3.89	5.20	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.89	6.32	21.00
2440MHz	Pass	3.89	5.16	21.00
2480MHz	Pass	3.89	5.22	21.00

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



Summary

Mode	Max-Hop No
2.4-2.4835GHz	-
BT-BR(1Mbps)	79
BT-EDR(2Mbps)	79
BT-EDR(3Mbps)	79

Result

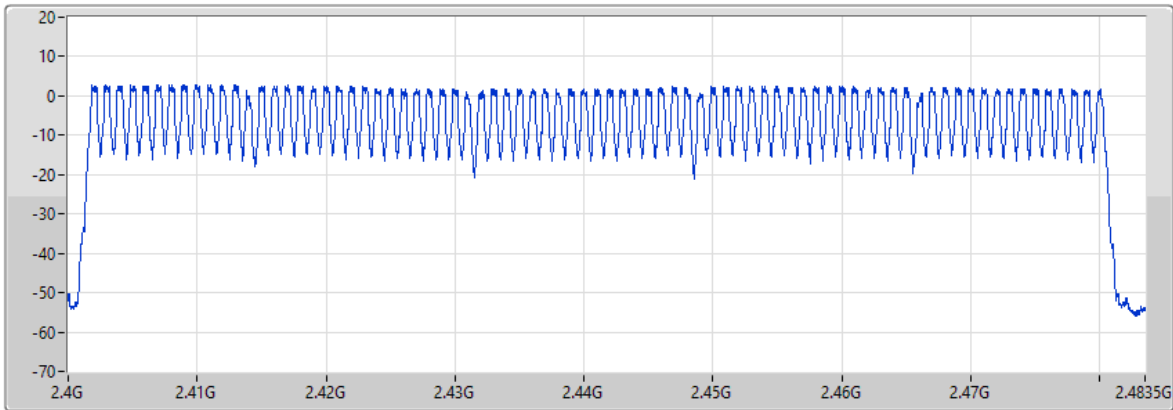
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2440MHz	Pass	79	15

2.4-2.4835GHz_BT-BR(1Mbps)

Hopping-FS

2440MHz

15/07/2026



Port 1 

Hopping No
79

Span (Hz)
83.5M

RBW (Hz)
100k

VBW (Hz)
300kHz

Sweep (s)
132.6us

Detector
Peak

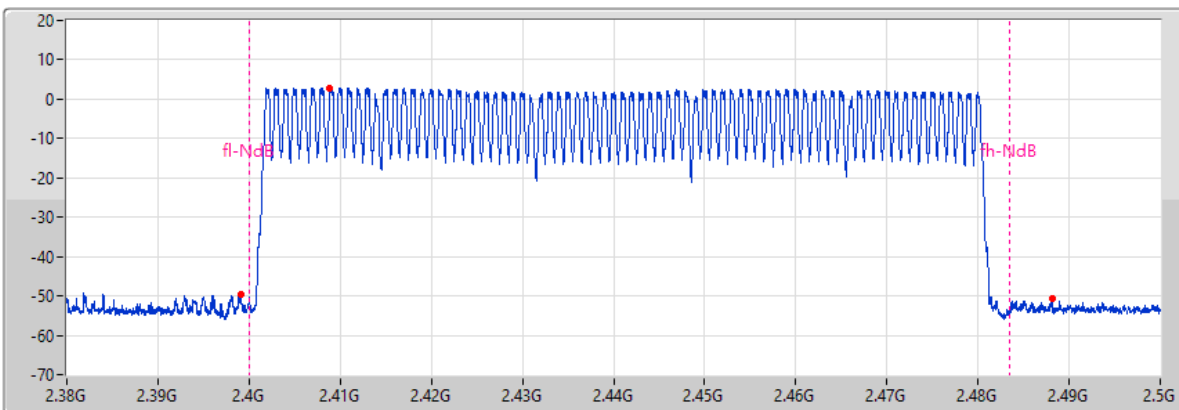
Hopping No	Limit
79	15

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

15/07/2026



Port 1 

Span (Hz)
120M

RBW (Hz)
100k

VBW (Hz)
300k

Sweep (s)
132.6u

Detector
Peak

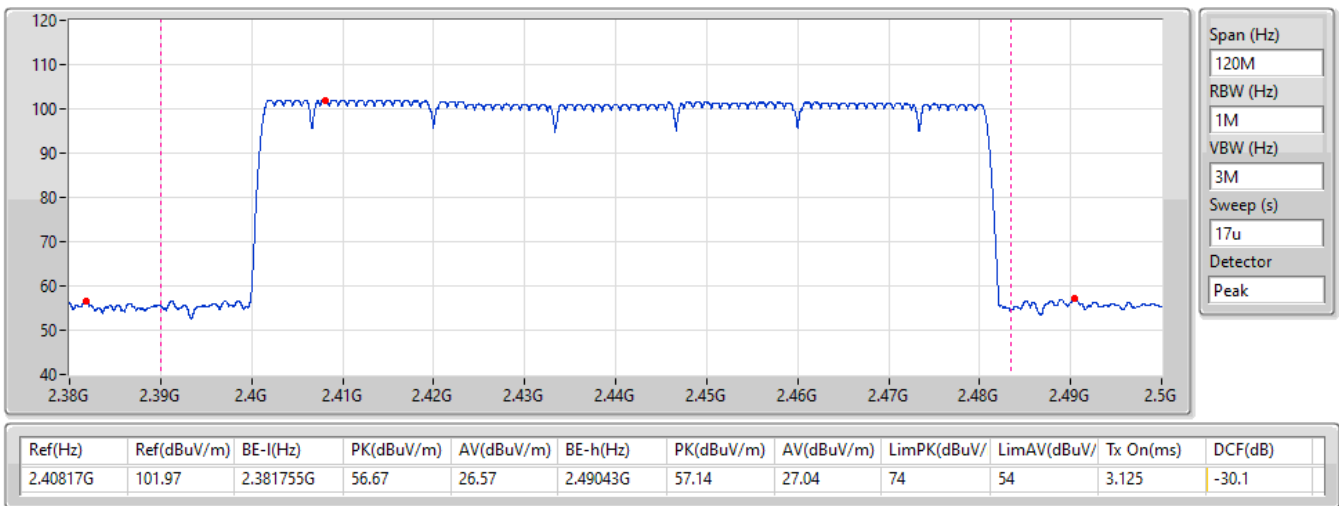
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-17.27	2.408845G	2.73	2.39905G	-49.58	2.488165G	-50.73

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

15/07/2026

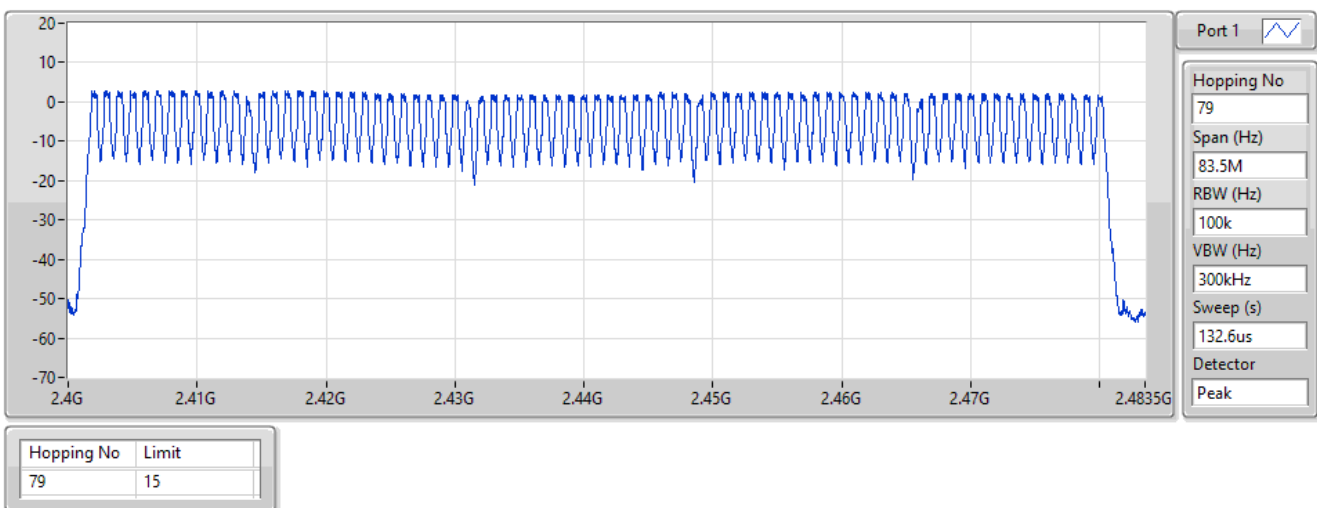


2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping-FS

15/07/2026

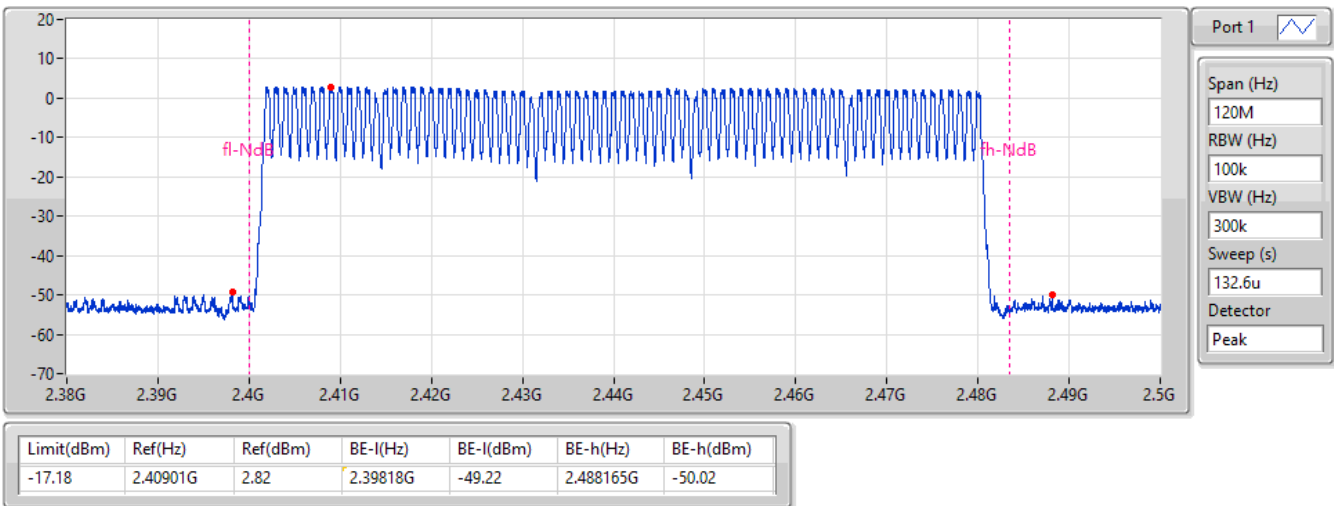


2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

15/07/2026

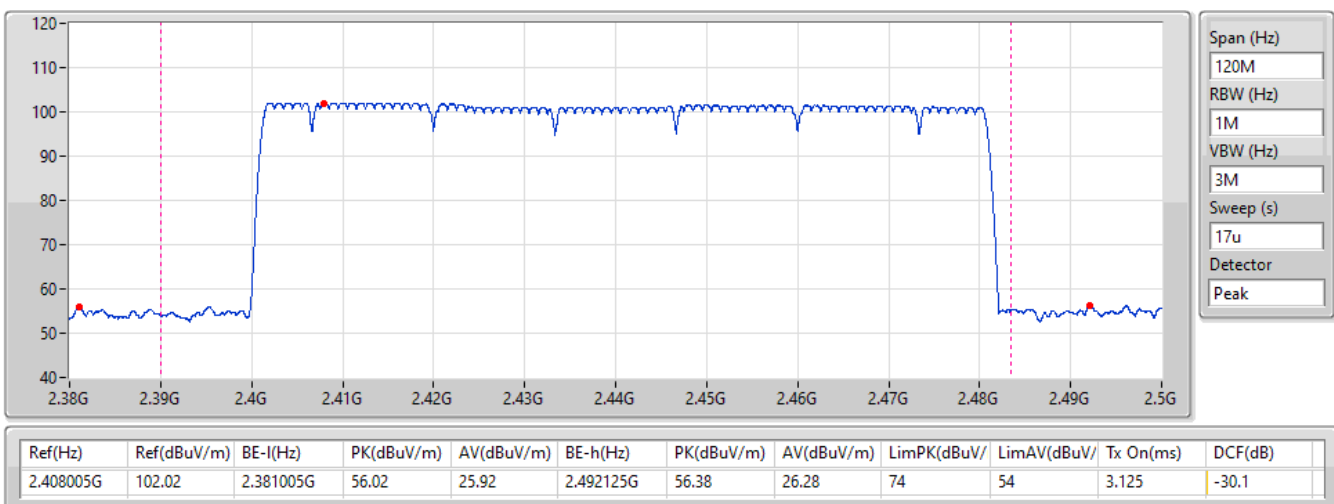


2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

15/07/2026

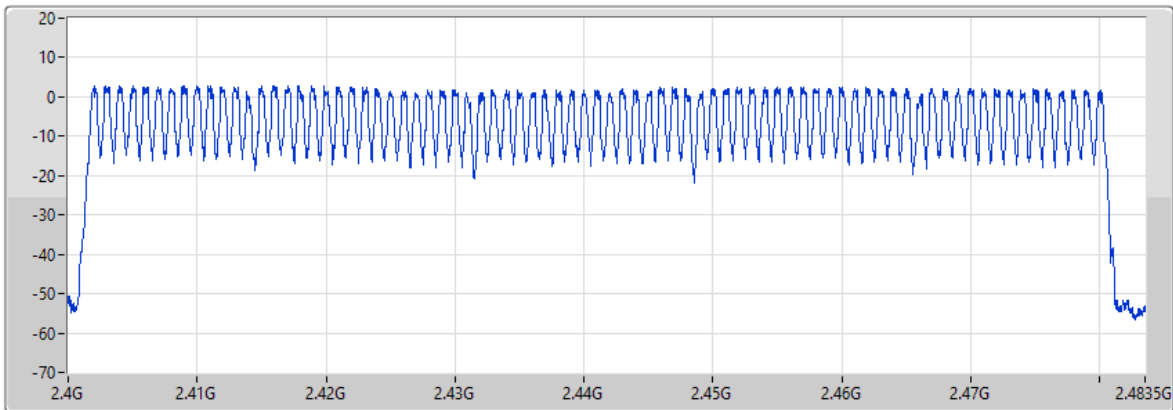


2.4-2.4835GHz_BT-EDR(3Mbps)

Hopping-FS

2440MHz

15/07/2026



Port 1 

Hopping No
79

Span (Hz)
83.5M

RBW (Hz)
100k

VBW (Hz)
300kHz

Sweep (s)
132.6us

Detector
Peak

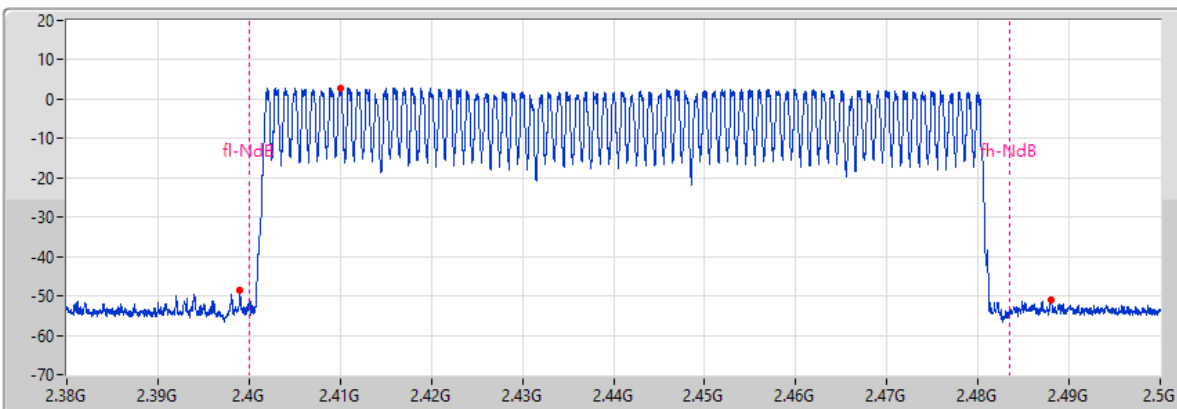
Hopping No	Limit
79	15

2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

15/07/2026



Port 1 

Span (Hz)
120M

RBW (Hz)
100k

VBW (Hz)
300k

Sweep (s)
132.6u

Detector
Peak

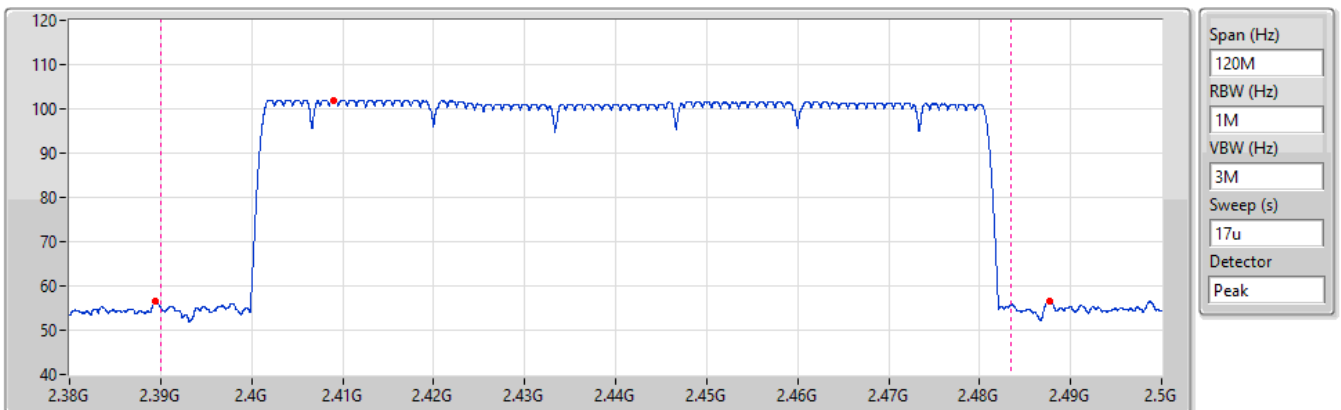
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-17.2	2.410015G	2.8	2.399005G	-48.68	2.487985G	-51.18

2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

15/07/2026



Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.40901G	101.98	2.38948G	56.57	26.47	2.48764G	56.63	26.53	74	54	3.125	-30.1



Summary

2.4-2.4835GHz	-
BT-BR(1Mbps)	307.7542m_DH5
BT-EDR(2Mbps)	72.99435m_DH5
BT-EDR(3Mbps)	53.3m_DH5

Result

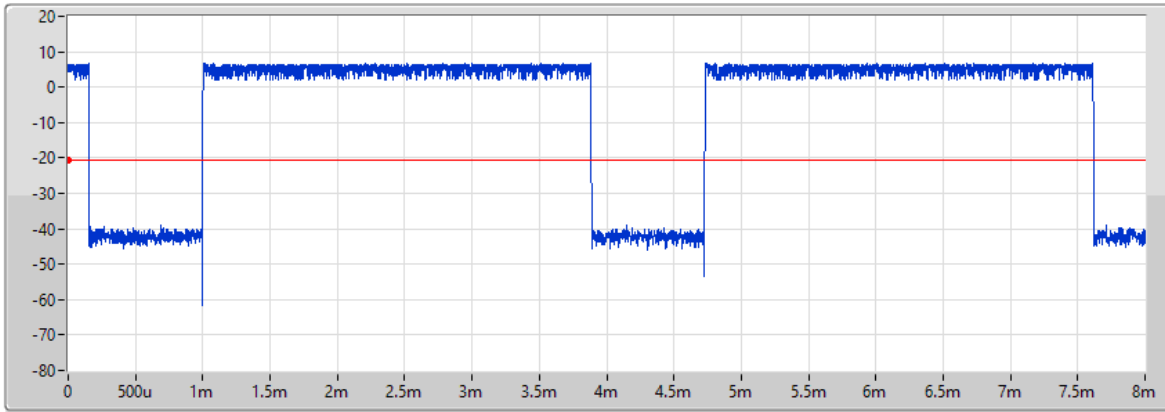
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	307.7542m_DH5	400m	2.887m
2440MHz	Pass	8	153.863775m_DH5-AFH	400m	2.88675m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	72.99435m_DH5	400m	684.75u
2440MHz	Pass	8	20.906925m_DH5-AFH	400m	392.25u
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	53.3m_DH5	400m	500u
2440MHz	Pass	8	38.256075m_DH5-AFH	400m	717.75u

2.4-2.4835GHz_BT-BR(1Mbps)

Dwell-FS

2440MHz

15/07/2026



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
2.887m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	307.7542m_DH5	400m	2.887m

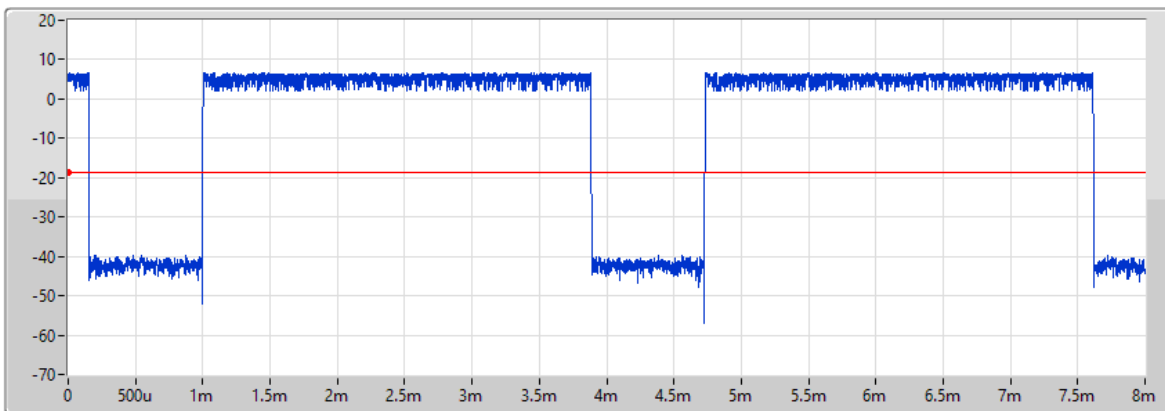
DH5

2.4-2.4835GHz_BT-BR(1Mbps)

Dwell-FS

2440MHz

15/07/2026



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
2.88675m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	153.863775m_DH5-AFH	400m	2.88675m

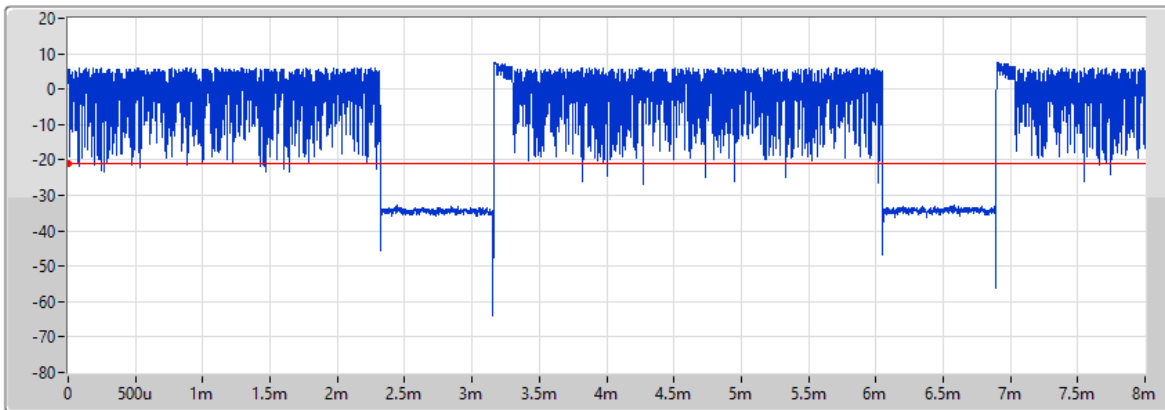
DH5-AFH

2.4-2.4835GHz_BT-EDR(2Mbps)

Dwell-FS

2440MHz

15/07/2026



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
684.75u

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	72.99435m_DH5	400m	684.75u

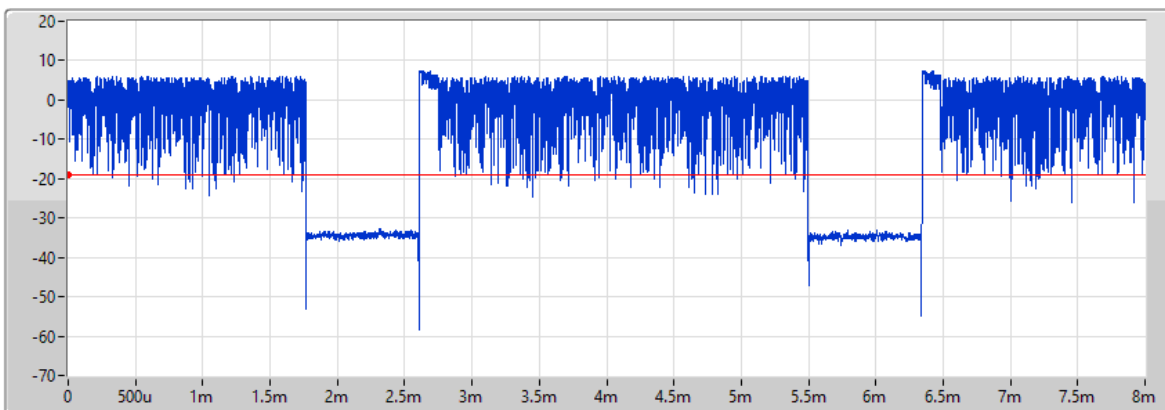
DH5

2.4-2.4835GHz_BT-EDR(2Mbps)

Dwell-FS

2440MHz

15/07/2026



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
392.25u

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	20.906925m_DH5-AFH	400m	392.25u

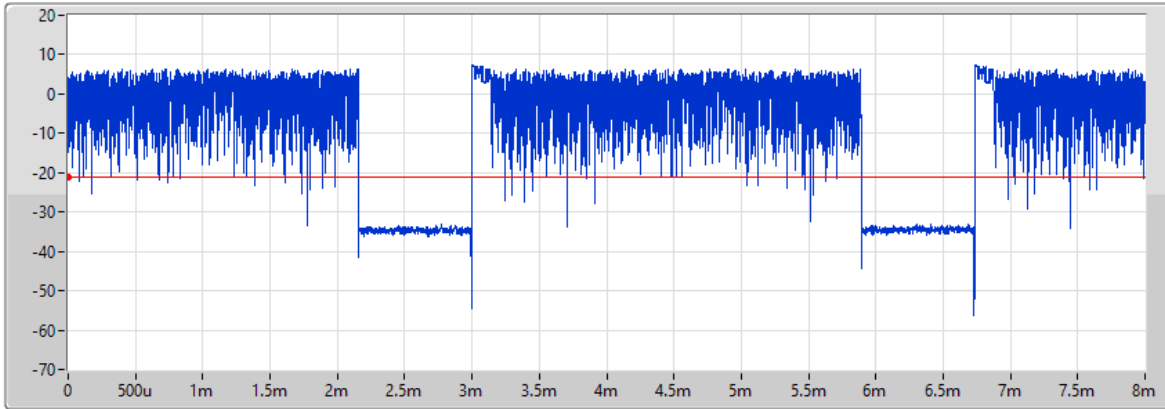
DH5-AFH

2.4-2.4835GHz_BT-EDR(3Mbps)

Dwell-FS

2440MHz

15/07/2026



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
500u

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	53.3m_DH5	400m	500u

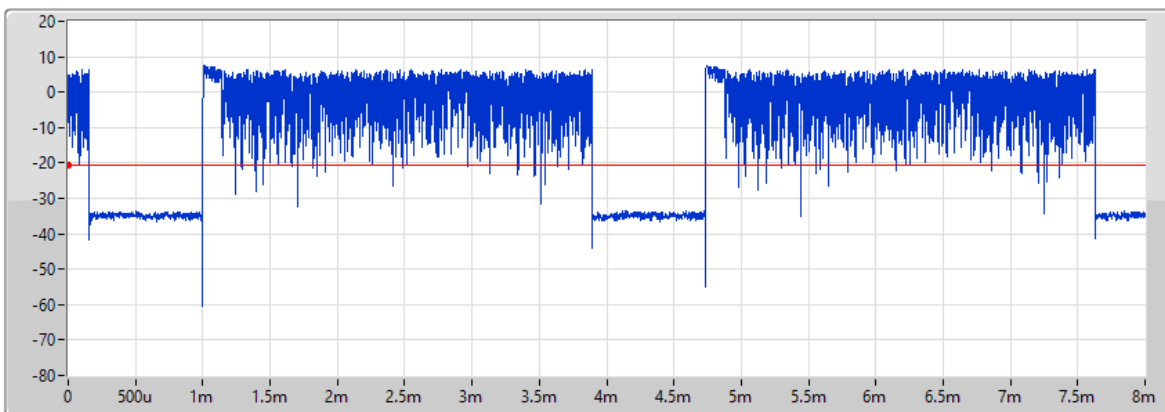
DH5

2.4-2.4835GHz_BT-EDR(3Mbps)

Dwell-FS

2440MHz

15/07/2026



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
717.75u

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	38.256075m_DH5-AFH	400m	717.75u

DH5-AFH



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-BR(1Mbps)	Pass	2.40217G	6.42	-13.58	2.09683G	-54.84	2.39212G	-46.92	2.4G	-49.37	2.50262G	-52.61	24.53039G	-41.84	1
BT-EDR(2Mbps)	Pass	2.40184G	7.11	-12.89	2.11798G	-54.57	2.39204G	-47.48	2.4G	-49.16	2.50282G	-52.99	21.71551G	-40.32	1
BT-EDR(3Mbps)	Pass	2.402G	7.28	-12.72	2.098G	-54.73	2.39208G	-47.68	2.4G	-49.39	2.50174G	-51.71	23.51523G	-41.85	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-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	6.42	-13.58	2.09683G	-54.84	2.39212G	-46.92	2.4G	-49.37	2.50262G	-52.61	24.53039G	-41.84	1
2440MHz	Pass	2.40217G	6.42	-13.58	2.16028G	-54.62	2.4G	-49.21	2.4G	-49.49	2.5019G	-52.78	16.83096G	-41.48	1
2480MHz	Pass	2.40217G	6.42	-13.58	2.1215G	-53.65	2.4G	-53.08	2.4G	-52.83	2.50002G	-52.75	24.17325G	-40.91	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	7.11	-12.89	2.11798G	-54.57	2.39204G	-47.48	2.4G	-49.16	2.50282G	-52.99	21.71551G	-40.32	1
2440MHz	Pass	2.40184G	7.11	-12.89	2.12033G	-53.59	2.39988G	-50.91	2.4G	-51.08	2.50286G	-53.06	16.40352G	-40.67	1
2480MHz	Pass	2.40184G	7.11	-12.89	2.16028G	-54.11	2.39976G	-51.94	2.4G	-54.25	2.50146G	-51.99	24.9297G	-40.66	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	7.28	-12.72	2.098G	-54.73	2.39208G	-47.68	2.4G	-49.39	2.50174G	-51.71	23.51523G	-41.85	1
2440MHz	Pass	2.402G	7.28	-12.72	2.19083G	-53.66	2.39972G	-50.97	2.4G	-51.29	2.50246G	-52.87	24.53882G	-41.61	1
2480MHz	Pass	2.402G	7.28	-12.72	2.15558G	-54.32	2.3998G	-52.66	2.4G	-51.32	2.50078G	-53.33	16.35572G	-41.60	1

2.4-2.4835GHz_BT-BR(1Mbps)

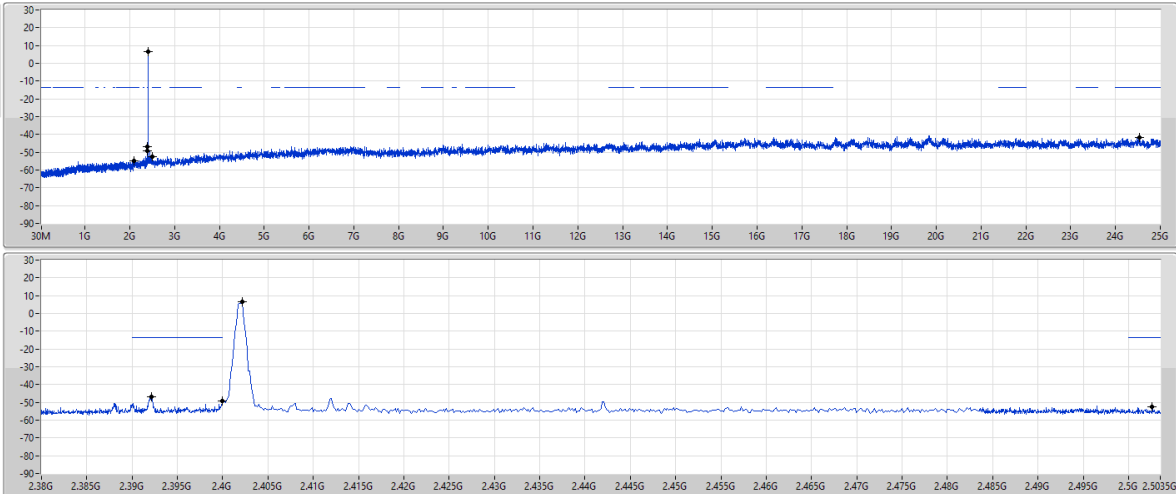
CSEndB-FS

2402MHz

15/07/2026

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
2.40217G	6.42	-13.58	2.09683G	-54.84	2.39212G	-46.92	2.4G	-49.37	2.50262G	-52.61	2.453039G	-41.84	1

2.4-2.4835GHz_BT-EDR(2Mbps)

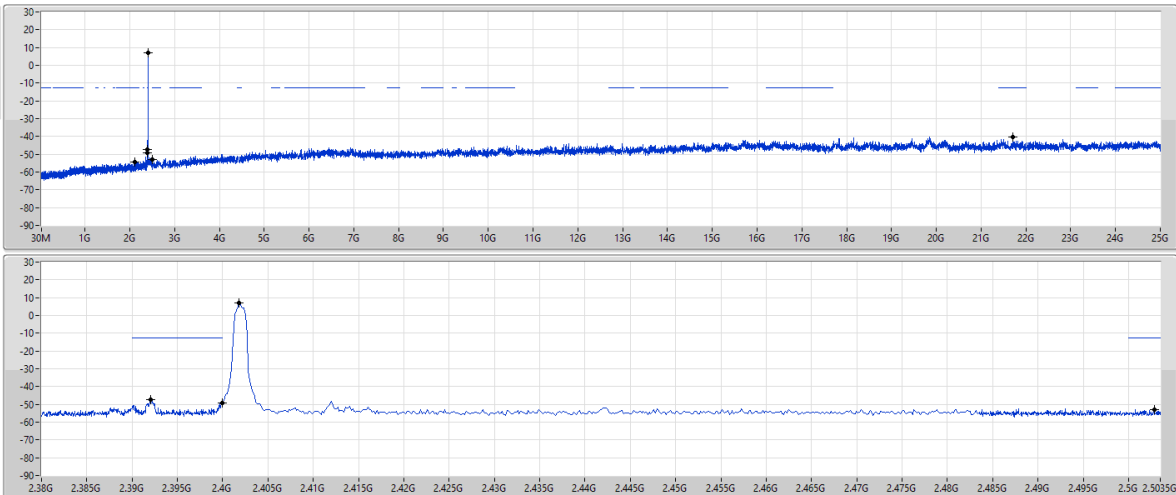
CSEndB-FS

2402MHz

15/07/2026

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
2.40184G	7.11	-12.89	2.11798G	-54.57	2.39204G	-47.48	2.4G	-49.16	2.50282G	-52.99	2.171551G	-40.32	1

2.4-2.4835GHz_BT-EDR(3Mbps)

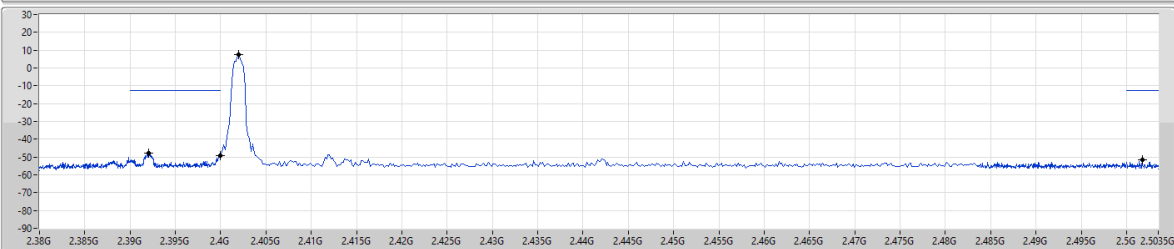
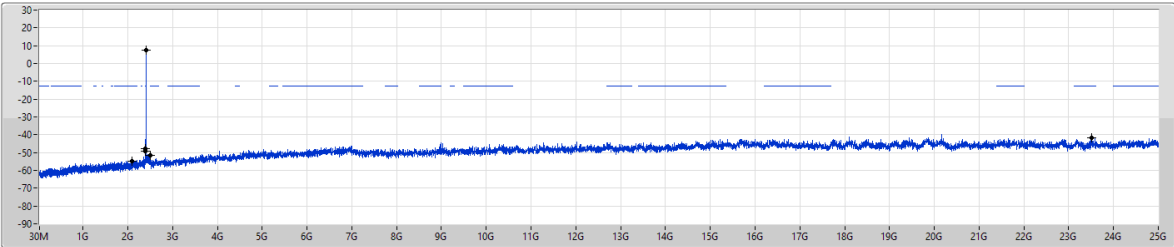
CSEndB-FS

2402MHz

15/07/2026

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
2.402G	7.28	-12.72	2.098G	-54.73	2.39208G	-47.68	2.4G	-49.39	2.50174G	-51.71	23.51523G	-41.85	1



Summary

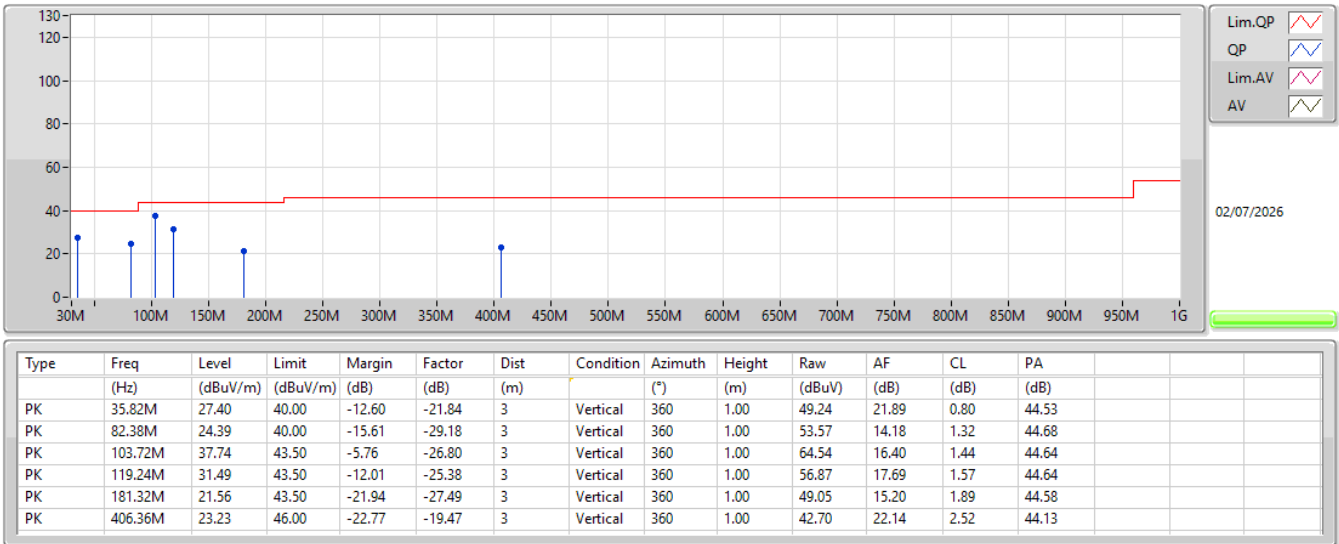
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-EDR(3Mbps)	Pass	PK	103.72M	37.74	43.50	-5.76	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz_Adapter	Pass	PK	35.82M	27.40	40.00	-12.60	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	82.38M	24.39	40.00	-15.61	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	103.72M	37.74	43.50	-5.76	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	119.24M	31.49	43.50	-12.01	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	181.32M	21.56	43.50	-21.94	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	406.36M	23.23	46.00	-22.77	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	33.88M	25.64	40.00	-14.36	3	Horizontal	0	1.00
2440MHz_Adapter	Pass	PK	103.72M	30.24	43.50	-13.26	3	Horizontal	0	1.00
2440MHz_Adapter	Pass	PK	119.24M	29.86	43.50	-13.64	3	Horizontal	0	1.00
2440MHz_Adapter	Pass	PK	181.32M	28.23	43.50	-15.27	3	Horizontal	0	1.00
2440MHz_Adapter	Pass	PK	256.98M	20.39	46.00	-25.61	3	Horizontal	0	1.00
2440MHz_Adapter	Pass	PK	410.24M	25.45	46.00	-20.55	3	Horizontal	0	1.00

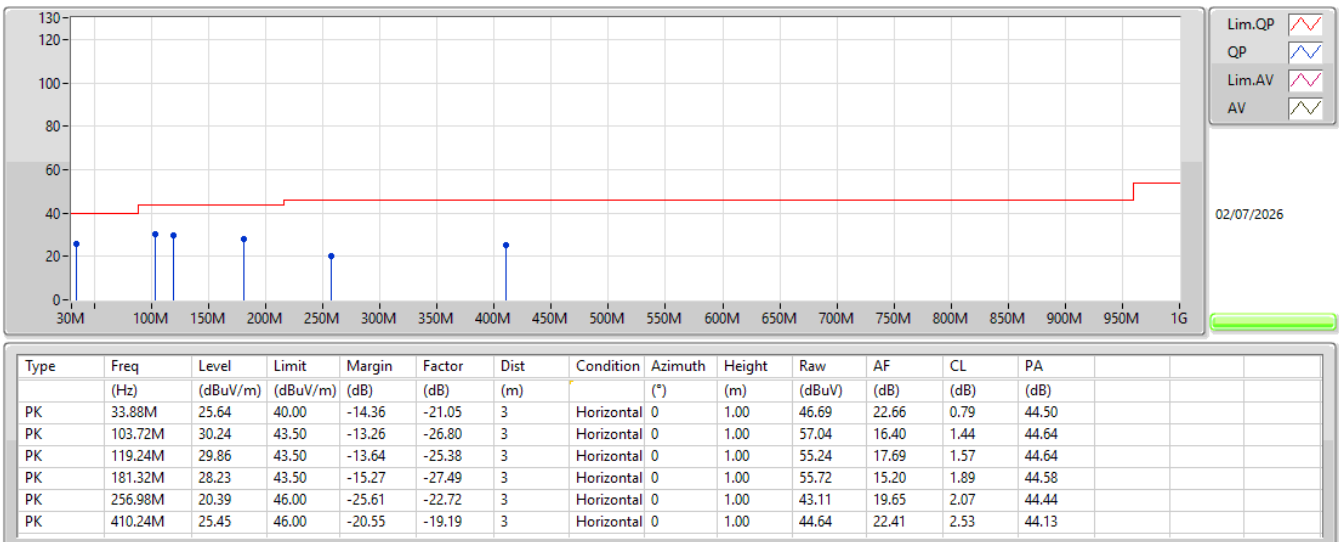
2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz_Adapter



2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz_Adapter





Summary

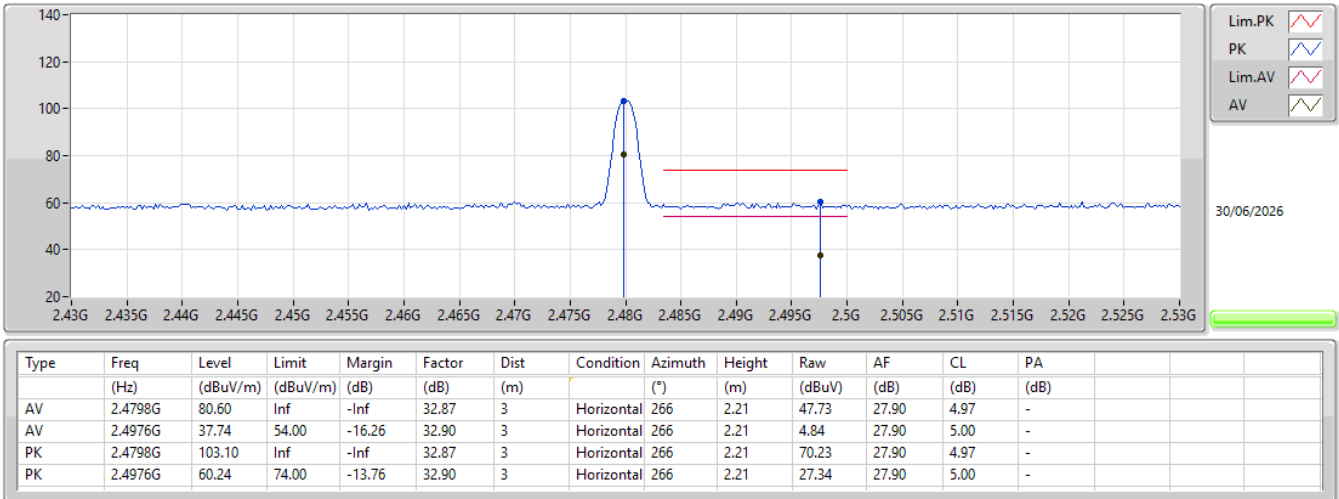
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	2.4976G	60.24	74.00	-13.76	3	Horizontal	266	2.21
BT-EDR(3Mbps)	Pass	PK	2.378G	59.79	74.00	-14.21	3	Horizontal	268	2.20

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3896G	36.91	54.00	-17.09	3	Horizontal	268	2.20
2402MHz	Pass	AV	2.4018G	81.53	Inf	-Inf	3	Horizontal	268	2.20
2402MHz	Pass	PK	2.3896G	59.41	74.00	-14.59	3	Horizontal	268	2.20
2402MHz	Pass	PK	2.4018G	104.03	Inf	-Inf	3	Horizontal	268	2.20
2402MHz	Pass	AV	4.80422G	20.17	54.00	-33.83	3	Vertical	316	1.50
2402MHz	Pass	PK	4.80422G	42.67	74.00	-31.33	3	Vertical	316	1.50
2402MHz	Pass	AV	4.80403G	19.52	54.00	-34.48	3	Horizontal	170	1.94
2402MHz	Pass	PK	4.80403G	42.02	74.00	-31.98	3	Horizontal	170	1.94
2440MHz	Pass	AV	2.3532G	36.07	54.00	-17.93	3	Horizontal	266	2.32
2440MHz	Pass	AV	2.44G	81.79	Inf	-Inf	3	Horizontal	266	2.32
2440MHz	Pass	AV	2.4932G	37.63	54.00	-16.37	3	Horizontal	266	2.32
2440MHz	Pass	PK	2.3532G	58.57	74.00	-15.43	3	Horizontal	266	2.32
2440MHz	Pass	PK	2.44G	104.29	Inf	-Inf	3	Horizontal	266	2.32
2440MHz	Pass	PK	2.4932G	60.13	74.00	-13.87	3	Horizontal	266	2.32
2440MHz	Pass	AV	4.87785G	20.02	54.00	-33.98	3	Vertical	234	2.41
2440MHz	Pass	PK	4.87785G	42.52	74.00	-31.48	3	Vertical	234	2.41
2440MHz	Pass	AV	4.88223G	20.32	54.00	-33.68	3	Horizontal	132	1.50
2440MHz	Pass	PK	4.88223G	42.82	74.00	-31.18	3	Horizontal	132	1.50
2480MHz	Pass	AV	2.4798G	80.60	Inf	-Inf	3	Horizontal	266	2.21
2480MHz	Pass	AV	2.4976G	37.74	54.00	-16.26	3	Horizontal	266	2.21
2480MHz	Pass	PK	2.4798G	103.10	Inf	-Inf	3	Horizontal	266	2.21
2480MHz	Pass	PK	2.4976G	60.24	74.00	-13.76	3	Horizontal	266	2.21
2480MHz	Pass	AV	4.96011G	21.07	54.00	-32.93	3	Vertical	31	2.45
2480MHz	Pass	PK	4.96011G	43.57	74.00	-30.43	3	Vertical	31	2.45
2480MHz	Pass	AV	4.96118G	20.83	54.00	-33.17	3	Horizontal	3	2.28
2480MHz	Pass	PK	4.96118G	43.33	74.00	-30.67	3	Horizontal	3	2.28
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3848G	36.55	54.00	-17.45	3	Horizontal	270	1.50
2402MHz	Pass	AV	2.402G	83.03	Inf	-Inf	3	Horizontal	270	1.50
2402MHz	Pass	PK	2.3848G	59.05	74.00	-14.95	3	Horizontal	270	1.50
2402MHz	Pass	PK	2.402G	105.53	Inf	-Inf	3	Horizontal	270	1.50
2402MHz	Pass	AV	4.80599G	20.08	54.00	-33.92	3	Vertical	357	1.50
2402MHz	Pass	PK	4.80599G	42.58	74.00	-31.42	3	Vertical	357	1.50
2402MHz	Pass	AV	4.80507G	20.31	54.00	-33.69	3	Horizontal	167	1.50
2402MHz	Pass	PK	4.80507G	42.81	74.00	-31.19	3	Horizontal	167	1.50
2440MHz	Pass	AV	2.378G	37.29	54.00	-16.71	3	Horizontal	268	2.20
2440MHz	Pass	AV	2.44G	82.90	Inf	-Inf	3	Horizontal	268	2.20
2440MHz	Pass	AV	2.4896G	36.80	54.00	-17.20	3	Horizontal	268	2.20
2440MHz	Pass	PK	2.378G	59.79	74.00	-14.21	3	Horizontal	268	2.20
2440MHz	Pass	PK	2.44G	105.40	Inf	-Inf	3	Horizontal	268	2.20
2440MHz	Pass	PK	2.4896G	59.30	74.00	-14.70	3	Horizontal	268	2.20
2440MHz	Pass	AV	4.87916G	20.77	54.00	-33.23	3	Vertical	246	1.82
2440MHz	Pass	PK	4.87916G	43.27	74.00	-30.73	3	Vertical	246	1.82
2440MHz	Pass	AV	4.88141G	20.09	54.00	-33.91	3	Horizontal	202	2.24
2440MHz	Pass	PK	4.88141G	42.59	74.00	-31.41	3	Horizontal	202	2.24
2480MHz	Pass	AV	2.48G	82.29	Inf	-Inf	3	Horizontal	266	2.20
2480MHz	Pass	AV	2.4835G	37.03	54.00	-16.97	3	Horizontal	266	2.20
2480MHz	Pass	PK	2.48G	104.79	Inf	-Inf	3	Horizontal	266	2.20
2480MHz	Pass	PK	2.4835G	59.53	74.00	-14.47	3	Horizontal	266	2.20
2480MHz	Pass	AV	4.958G	21.02	54.00	-32.98	3	Vertical	217	2.95
2480MHz	Pass	PK	4.958G	43.52	74.00	-30.48	3	Vertical	217	2.95
2480MHz	Pass	AV	4.9608G	21.38	54.00	-32.62	3	Horizontal	107	1.50
2480MHz	Pass	PK	4.9608G	43.88	74.00	-30.12	3	Horizontal	107	1.50

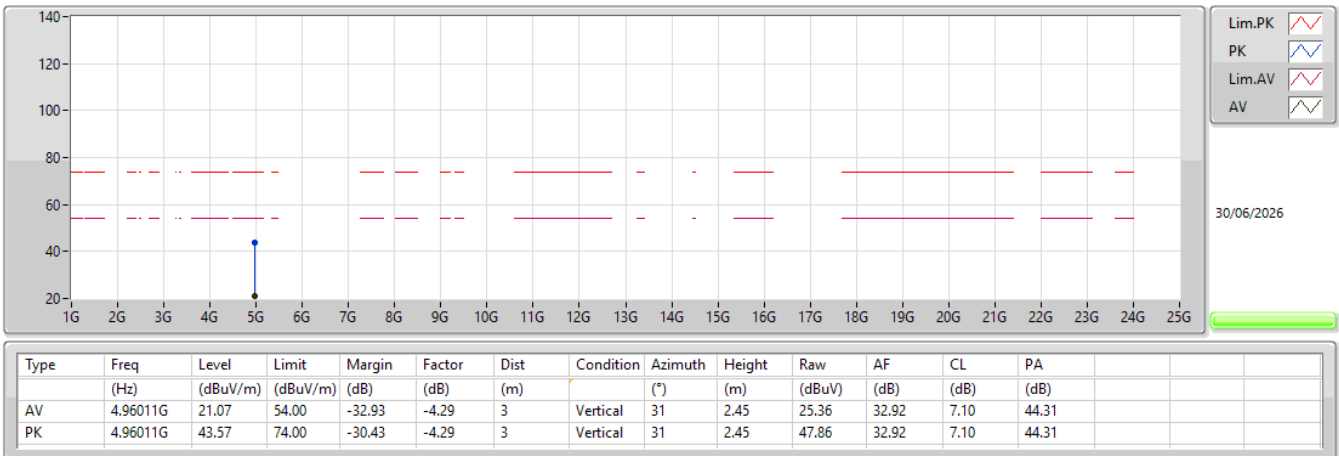
2.4-2.4835GHz_BT-BR(1Mbps)

2480MHz_TX



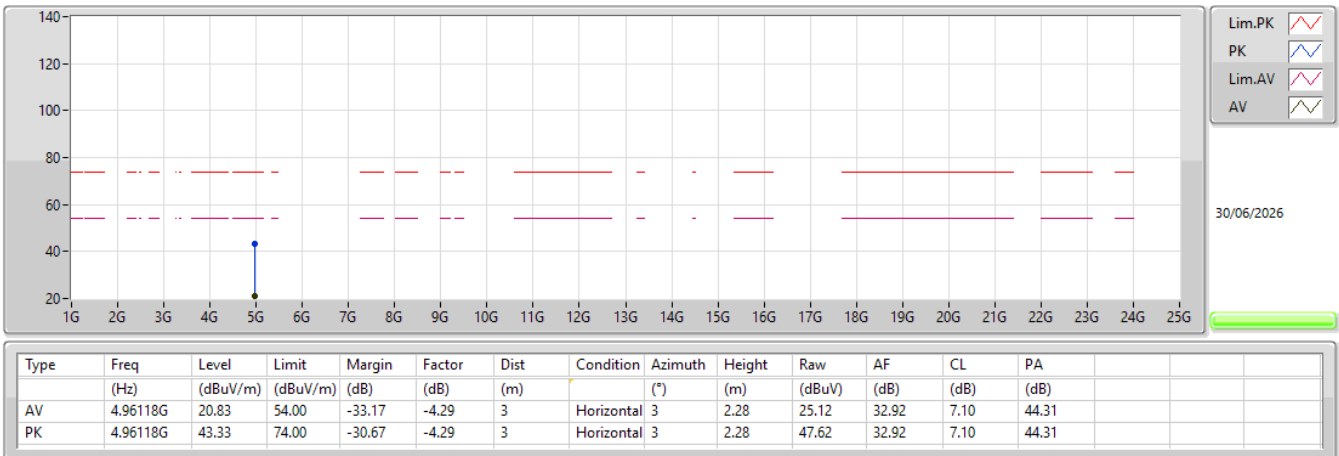
2.4-2.4835GHz_BT-BR(1Mbps)

2480MHz_TX



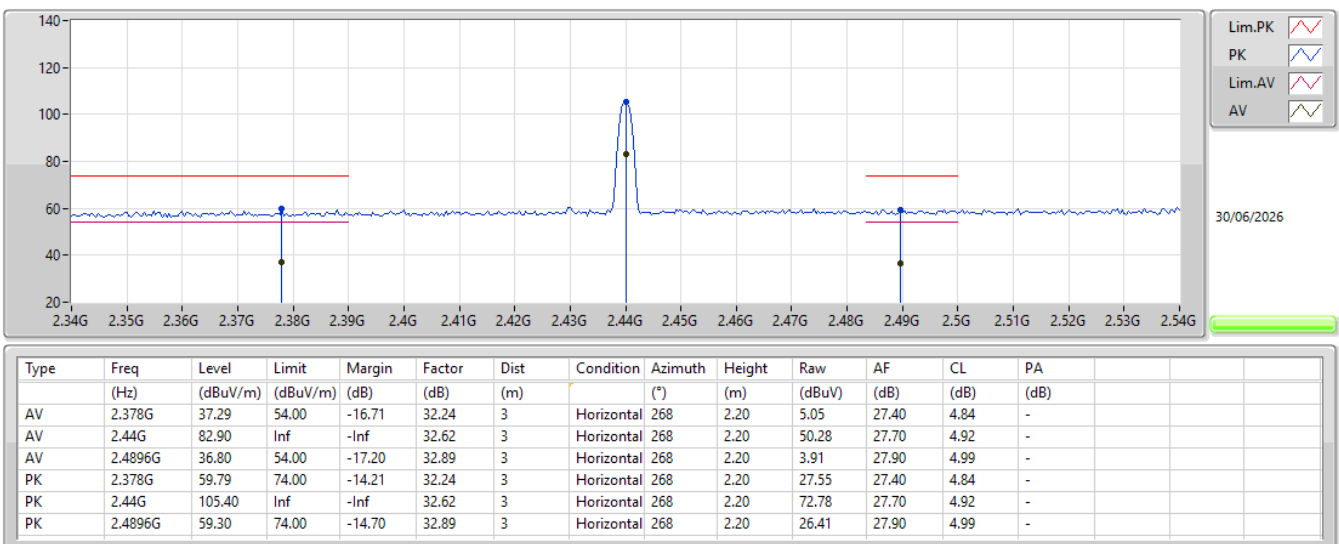
2.4-2.4835GHz_BT-BR(1Mbps)

2480MHz_TX



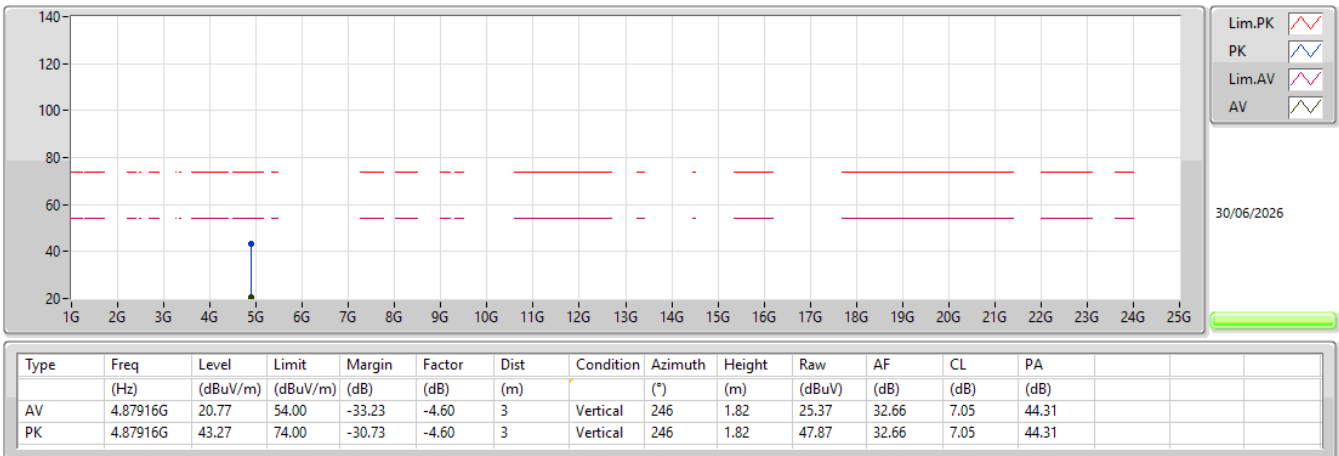
2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz_TX



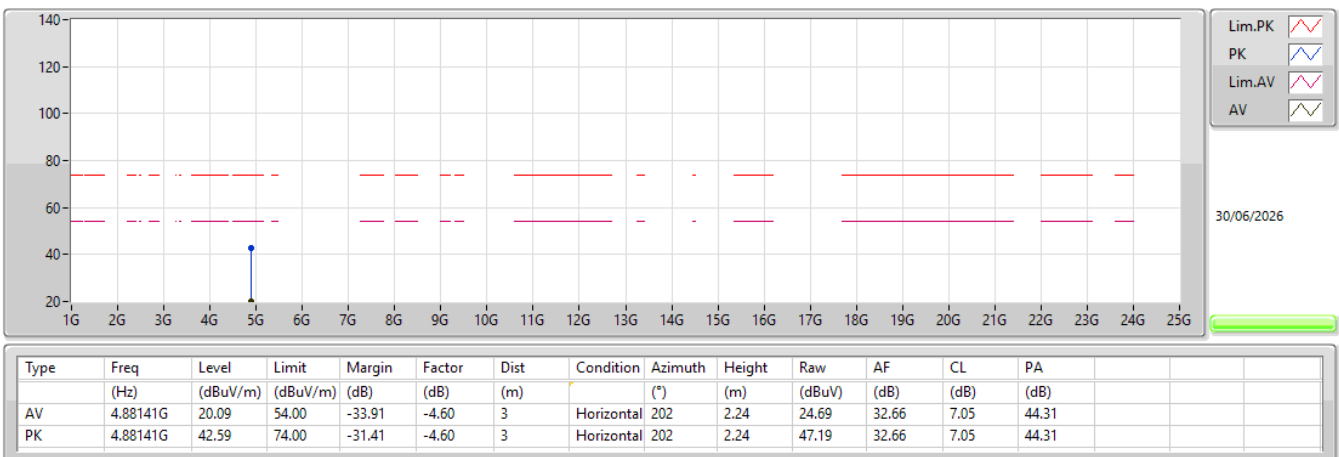
2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz_TX



2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz_TX





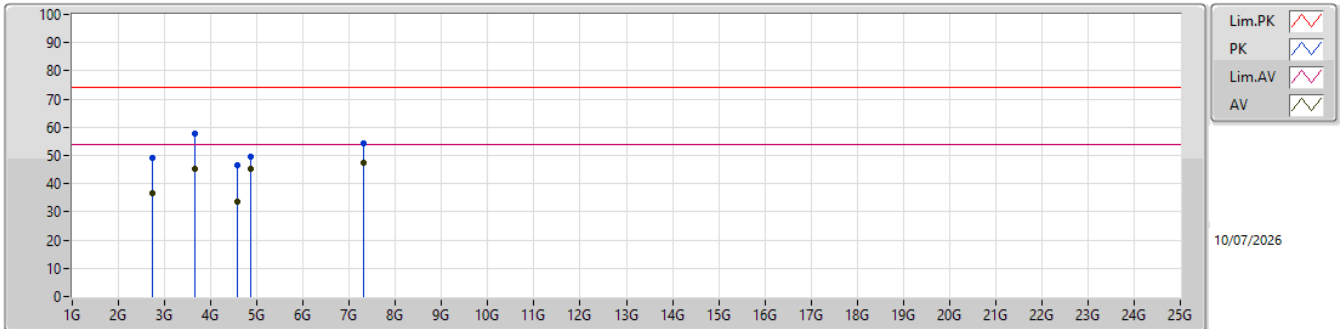
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	7.31368G	48.38	54.00	-5.62	Horizontal
Mode 2	Pass	AV	3.65943G	45.67	54.00	-8.33	Horizontal

Result

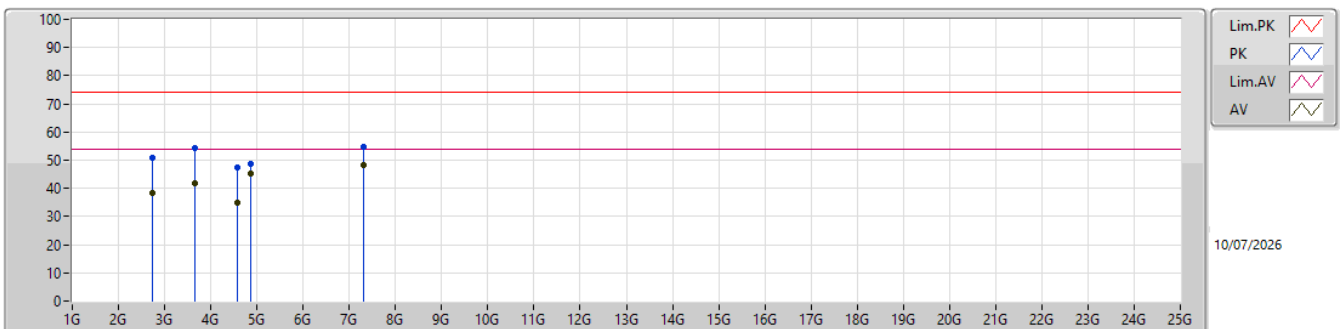
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	2.74458G	36.49	54.00	-17.51	3	Vertical	150	1.50
Mode 1	Pass	AV	3.65952G	45.08	54.00	-8.92	3	Vertical	62	2.76
Mode 1	Pass	AV	4.57454G	33.62	54.00	-20.38	3	Vertical	40	2.61
Mode 1	Pass	AV	4.87396G	45.35	54.00	-8.65	3	Vertical	297	1.01
Mode 1	Pass	AV	7.30872G	47.49	54.00	-6.51	3	Vertical	349	1.01
Mode 1	Pass	PK	2.74458G	49.26	74.00	-24.74	3	Vertical	150	1.50
Mode 1	Pass	PK	3.65952G	57.85	74.00	-16.15	3	Vertical	62	2.76
Mode 1	Pass	PK	4.57454G	46.39	74.00	-27.61	3	Vertical	40	2.61
Mode 1	Pass	PK	4.87392G	49.37	74.00	-24.63	3	Vertical	297	1.01
Mode 1	Pass	PK	7.31012G	54.25	74.00	-19.75	3	Vertical	349	1.01
Mode 1	Pass	AV	2.74478G	38.19	54.00	-15.81	3	Horizontal	355	2.70
Mode 1	Pass	AV	3.65968G	41.71	54.00	-12.29	3	Horizontal	34	1.20
Mode 1	Pass	AV	4.57458G	34.80	54.00	-19.20	3	Horizontal	291	1.01
Mode 1	Pass	AV	4.874G	45.15	54.00	-8.85	3	Horizontal	99	344
Mode 1	Pass	AV	7.31368G	48.38	54.00	-5.62	3	Horizontal	11	1.00
Mode 1	Pass	PK	2.74478G	50.96	74.00	-23.04	3	Horizontal	355	2.70
Mode 1	Pass	PK	3.65968G	54.48	74.00	-19.52	3	Horizontal	34	1.20
Mode 1	Pass	PK	4.57458G	47.57	74.00	-26.43	3	Horizontal	291	1.01
Mode 1	Pass	PK	4.87396G	48.89	74.00	-25.11	3	Horizontal	99	344
Mode 1	Pass	PK	7.31276G	54.82	74.00	-19.18	3	Horizontal	11	1.00
Mode 2	Pass	AV	2.74453G	41.52	54.00	-12.48	3	Vertical	333	1.01
Mode 2	Pass	AV	3.65968G	44.52	54.00	-9.48	3	Vertical	69	1.01
Mode 2	Pass	AV	4.57479G	35.32	54.00	-18.68	3	Vertical	121	1.01
Mode 2	Pass	PK	2.74453G	54.29	74.00	-19.71	3	Vertical	333	1.01
Mode 2	Pass	PK	3.65968G	57.29	74.00	-16.71	3	Vertical	69	1.01
Mode 2	Pass	PK	4.57479G	48.09	74.00	-25.91	3	Vertical	121	1.01
Mode 2	Pass	PK	10.36293G	57.37	68.20	-10.83	3	Vertical	4	1.14
Mode 2	Pass	AV	2.74483G	39.79	54.00	-14.21	3	Horizontal	99	1.00
Mode 2	Pass	AV	3.65943G	45.67	54.00	-8.33	3	Horizontal	160	1.07
Mode 2	Pass	AV	4.57454G	39.40	54.00	-14.60	3	Horizontal	153	2.81
Mode 2	Pass	PK	2.74483G	52.56	74.00	-21.44	3	Horizontal	99	1.00
Mode 2	Pass	PK	3.65943G	58.44	74.00	-15.56	3	Horizontal	160	1.07
Mode 2	Pass	PK	4.57454G	52.17	74.00	-21.83	3	Horizontal	153	2.81
Mode 2	Pass	PK	10.35807G	56.03	68.20	-12.17	3	Horizontal	173	1.22

Radiated Emissions above 1GHz_Mode 1



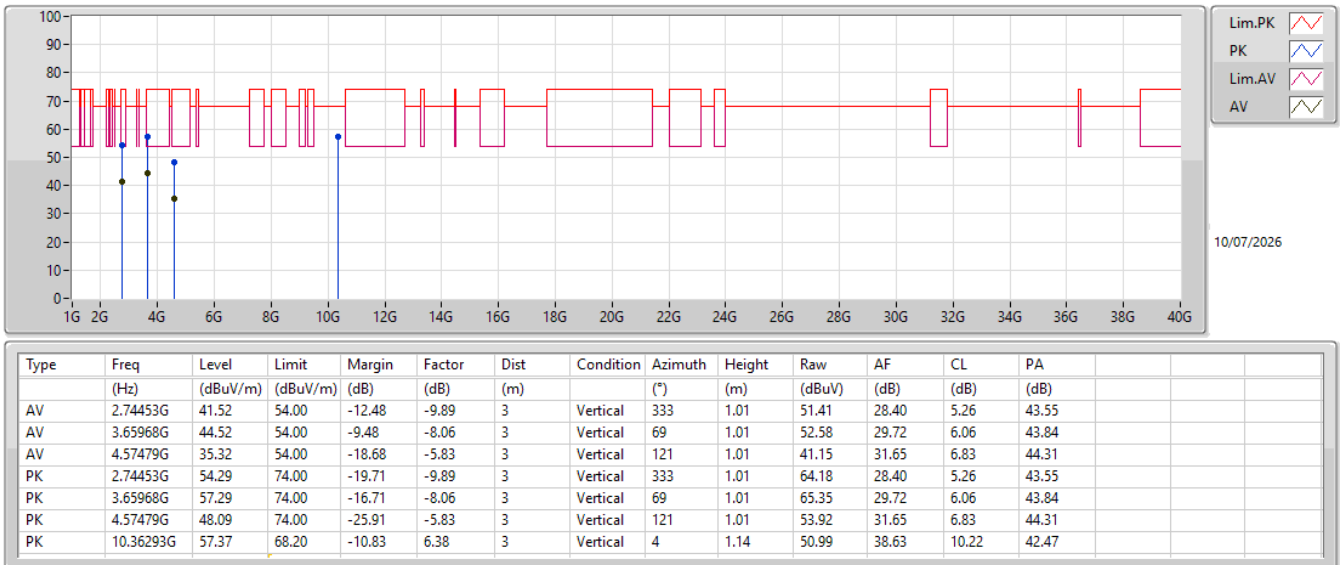
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.74458G	36.49	54.00	-17.51	-9.89	3	Vertical	150	1.50	46.38	28.40	5.26	43.55
AV	3.65952G	45.08	54.00	-8.92	-8.06	3	Vertical	62	2.76	53.14	29.72	6.06	43.84
AV	4.57454G	33.62	54.00	-20.38	-5.83	3	Vertical	40	2.61	39.45	31.65	6.83	44.31
AV	4.87396G	45.35	54.00	-8.65	-4.42	3	Vertical	297	1.01	49.77	32.85	7.04	44.31
AV	7.30872G	47.49	54.00	-6.51	1.66	3	Vertical	349	1.01	45.83	37.03	8.83	44.20
PK	2.74458G	49.26	74.00	-24.74	-9.89	3	Vertical	150	1.50	59.15	28.40	5.26	43.55
PK	3.65952G	57.85	74.00	-16.15	-8.06	3	Vertical	62	2.76	65.91	29.72	6.06	43.84
PK	4.57454G	46.39	74.00	-27.61	-5.83	3	Vertical	40	2.61	52.22	31.65	6.83	44.31
PK	4.87392G	49.37	74.00	-24.63	-4.42	3	Vertical	297	1.01	53.79	32.85	7.04	44.31
PK	7.31012G	54.25	74.00	-19.75	1.65	3	Vertical	349	1.01	52.60	37.02	8.83	44.20

Radiated Emissions above 1GHz_Mode 1



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	2.74478G	38.19	54.00	-15.81	-9.89	3	Horizontal	355	2.70	48.08	28.40	5.26	43.55
AV	3.65968G	41.71	54.00	-12.29	-8.06	3	Horizontal	34	1.20	49.77	29.72	6.06	43.84
AV	4.57458G	34.80	54.00	-19.20	-5.83	3	Horizontal	291	1.01	40.63	31.65	6.83	44.31
AV	4.874G	45.15	54.00	-8.85	-4.42	3	Horizontal	99	344	49.57	32.85	7.04	44.31
AV	7.31368G	48.38	54.00	-5.62	1.62	3	Horizontal	11	1.00	46.76	36.99	8.83	44.20
PK	2.74478G	50.96	74.00	-23.04	-9.89	3	Horizontal	355	2.70	60.85	28.40	5.26	43.55
PK	3.65968G	54.48	74.00	-19.52	-8.06	3	Horizontal	34	1.20	62.54	29.72	6.06	43.84
PK	4.57458G	47.57	74.00	-26.43	-5.83	3	Horizontal	291	1.01	53.40	31.65	6.83	44.31
PK	4.87396G	48.89	74.00	-25.11	-4.42	3	Horizontal	99	344	53.31	32.85	7.04	44.31
PK	7.31276G	54.82	74.00	-19.18	1.63	3	Horizontal	11	1.00	53.19	37.00	8.83	44.20

Radiated Emissions above 1GHz_Mode 2



Radiated Emissions above 1GHz_Mode 2

