

FCC Radio Test Report

FCC ID : YL6-143VDB781B
Equipment : Alarm.com Battery Video Doorbell
Brand Name : ALARM.COM
Model Name : ADC-VDB781B
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 Sep. 23, 2025, and testing was started from Jan. 22, 2026 and completed on Feb. 07, 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)	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	LYNwave	ALA25F-222AA6-00	PIFA	I-Pex	2.4G+5G+BT	1
2	2	LYNwave	ALA25F-222AA5-00	PIFA	I-Pex	2.4G+5G+BT	
3	1	INPAQ	RFFPA391608IMLB403	PIFA	I-Pex	2.4G+5G+BT	2
4	2	INPAQ	RFFPA391610IMLB402	PIFA	I-Pex	2.4G+5G+BT	

Ant.	Port	Gain (dBi)					
		2.4G	5G				BT
			UNII-1	UNII-2A	UNII-2C	UNII-3	
1	1	4.5	3.1	2.7	4.2	5.2	4.5
2	2	2.6	5	4.7	4.3	3.9	2.6
3	1	2.5	2.8	2.67	3	3	2.5
4	2	2.5	2.5	2.5	3	2.7	2.5

Note 1: The EUT has four antennas.

For 2.4GHz function:

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

Ant. 1 (port 1) or Ant. 2 (port 2) or Ant. 3 (port 1) or Ant. 4 (port 2) could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was Port 1 and it was recorded in this test report.

For 5GHz function:

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

Ant. 1 (port 1) or Ant. 2 (port 2) or Ant. 3 (port 1) or Ant. 4 (port 2) could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was Port 1 and it was recorded in this test report.

For BT function:

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

Ant. 1 (port 1) or Ant. 2 (port 2) or Ant. 3 (port 1) or Ant. 4 (port 2) could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was Port 1 and it was recorded in this test report.

1.1.3 EUT Information

Operational Condition			
EUT Power Type		From Adapter / Battery	
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)	0.786	1.05	2.889m	500
BT-EDR(2Mbps)	0.743	1.29	2.891m	500
BT-EDR(3Mbps)	0.787	1.04	2.893m	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	17.3~18.5℃ / 58~62%	07/Feb/2026
RF Conducted	TH07-HY	Xun Hsieh	20.1~21.3℃ / 56~60%	29/Jan/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	Henry Ho	21.9~23.1℃ / 52~56%	22/Jan//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%
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	Putty Release 0.72
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Mode	Power Setting
BT-BR(1Mbps)_1TX(Port1)	-
2402MHz	Default setting
2440MHz	Default setting
2480MHz	Default setting

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	Switching Power Supply 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	Battery mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	

2.3 Accessories

Accessories				
Battery	Brand Name	ALARM.COM	Model Name	ADC-VACC-BAT-2LIB18650
	Manufacturer	Huizhou Fuji Energy Technology Co., Ltd	Type	Li-ion, Yes
	Power Rating	3.6 Vdc, 6450mAh		
Wallplate	Brand Name	ALARM.COM	Model Name	VDB781B
USB Cable	Brand Name	FIT	Model Name	605-0000-0000
	Signal Line	0.915 meter, non-shielded cable, w/o ferrite core		

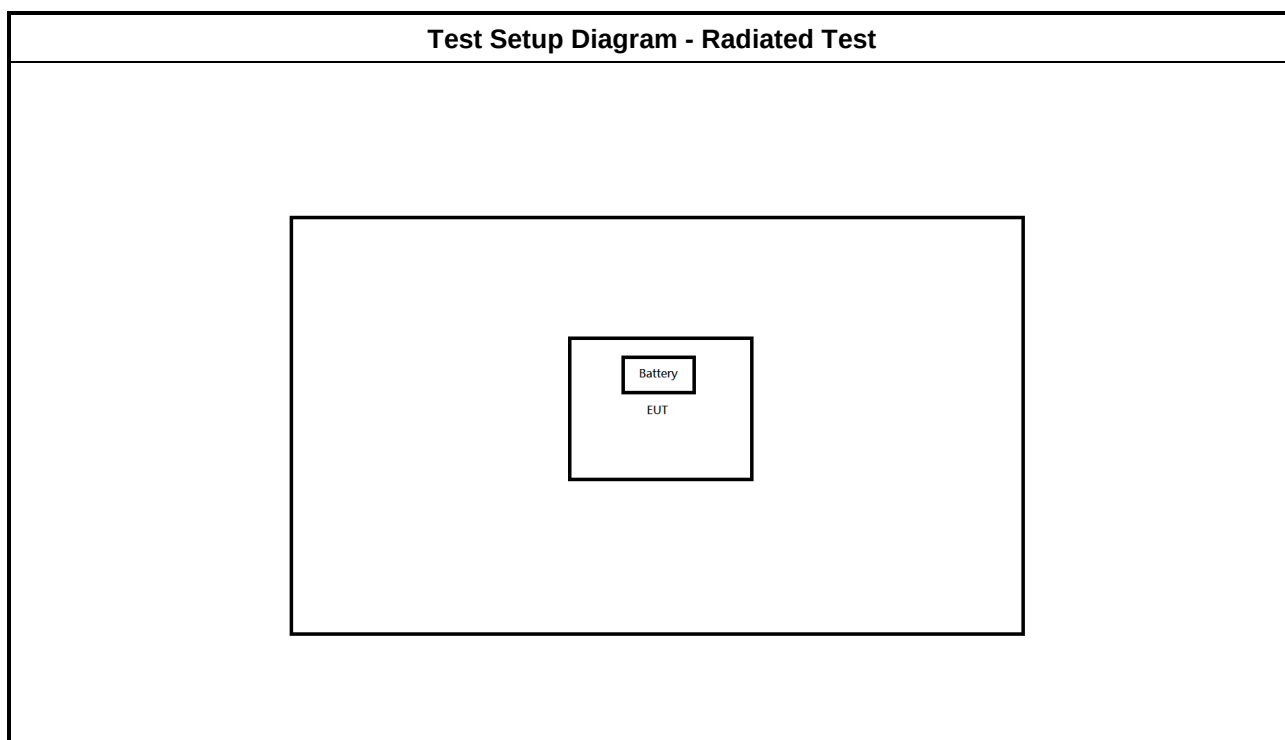
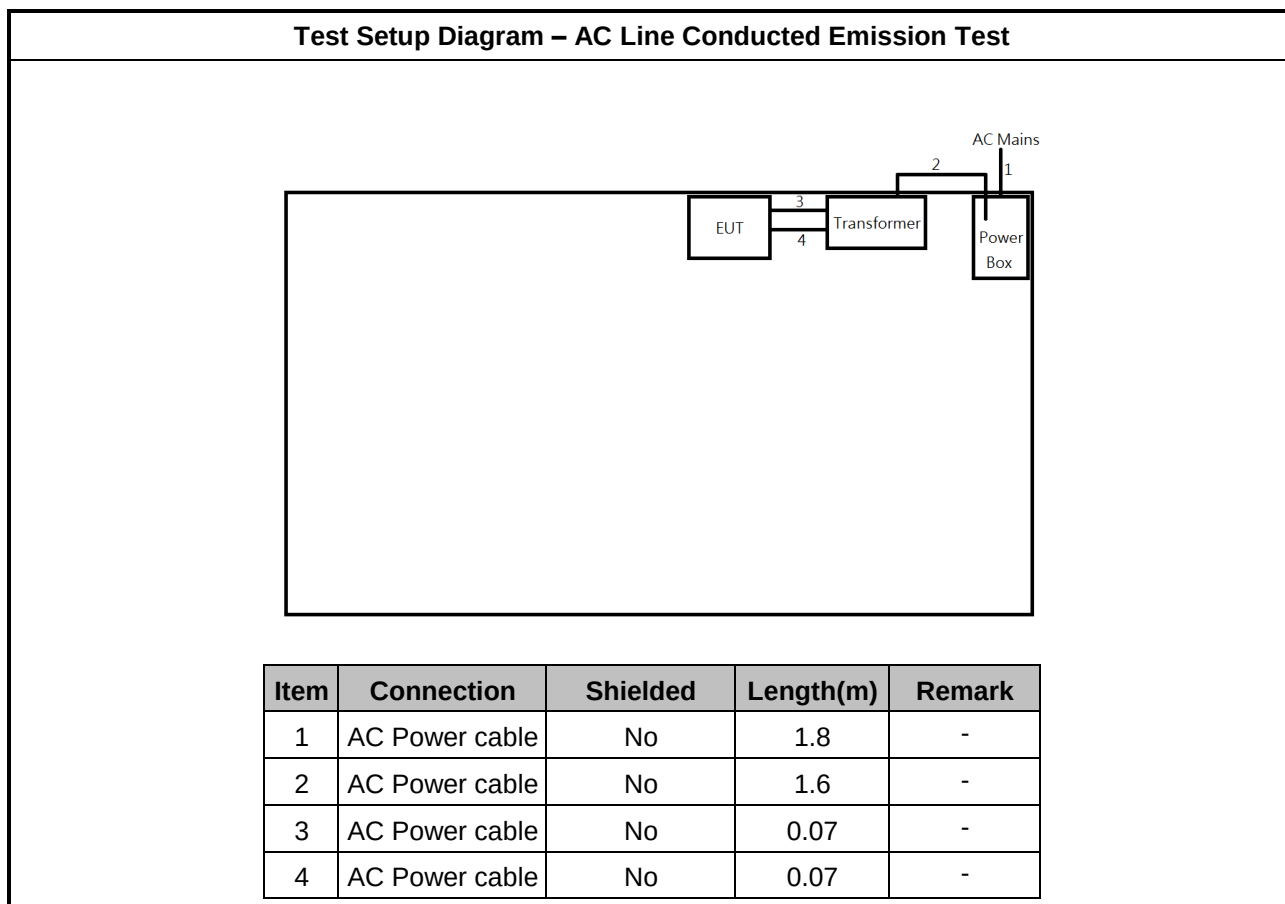
Reminder: Regarding to more detail and other information, please refer to user manual.

2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter (Power Transformer)	Triad Magnetics	VPL16-1600	-	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	Sporton	Sporton	-	-
4	DC power supply	GW	GPS-3030DD	-	-
5	DC power cable	MiSUMi	WTN1227-RED	-	-
6	DC power cable	MiSUMi	WTN1227-BLACK	-	-

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

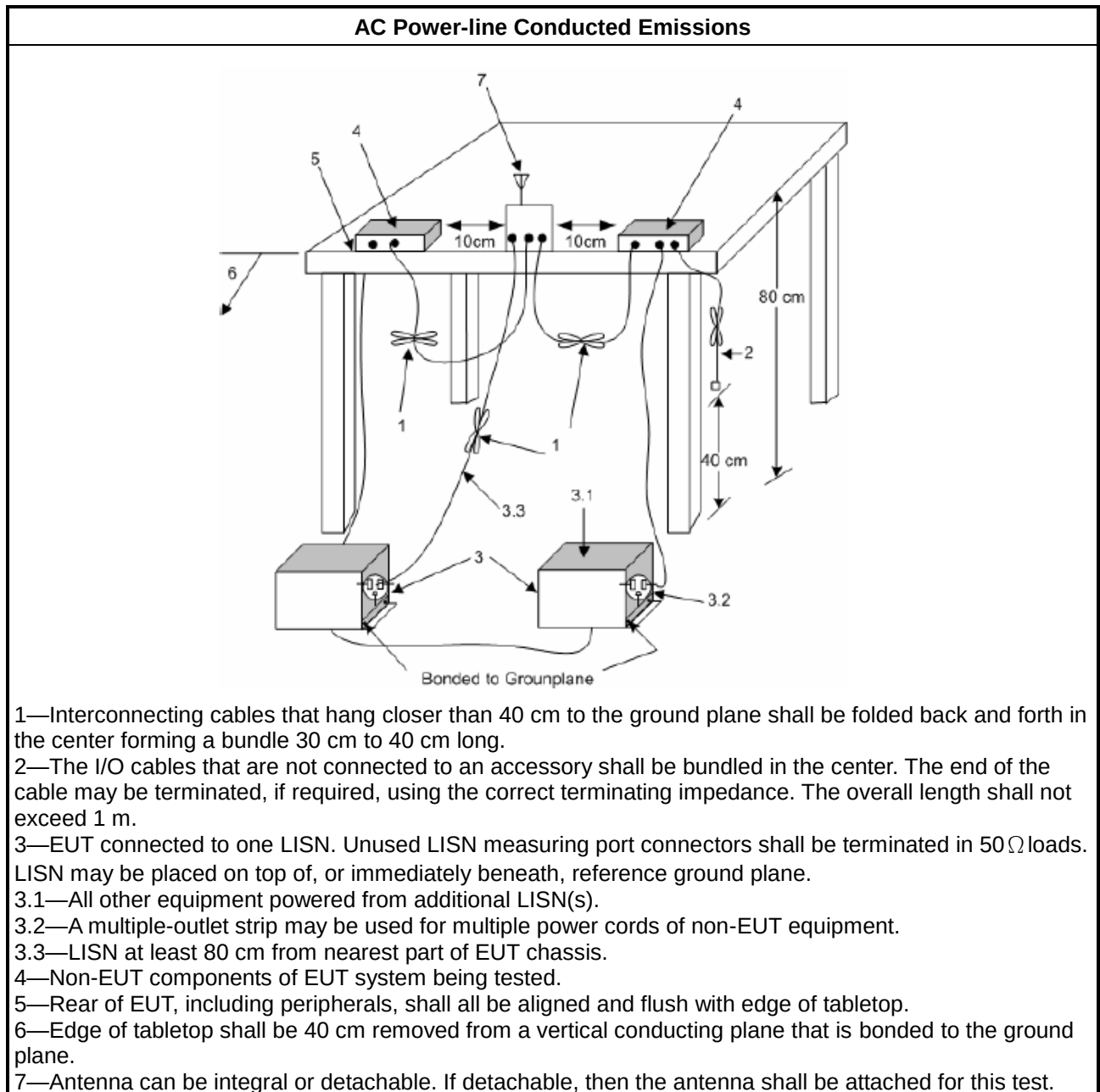
Test Method
☒ Refer as ANSI C63.10, clause 6.2 for AC power-line conducted emissions.

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	

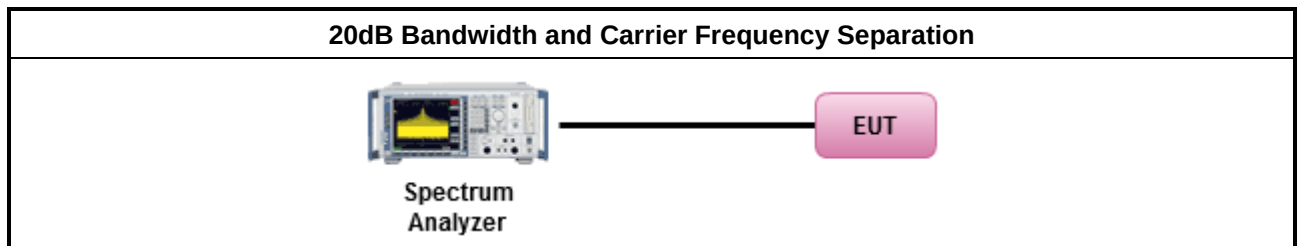
3.2.2 Measuring Instruments

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	

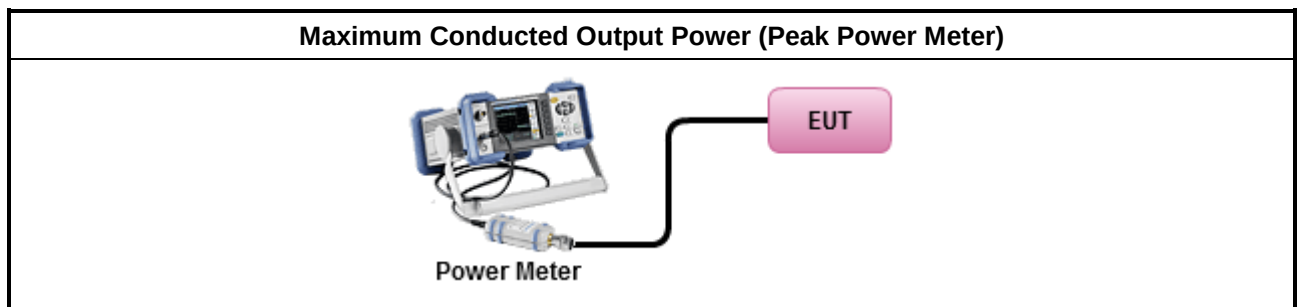
3.3.2 Measuring Instruments

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

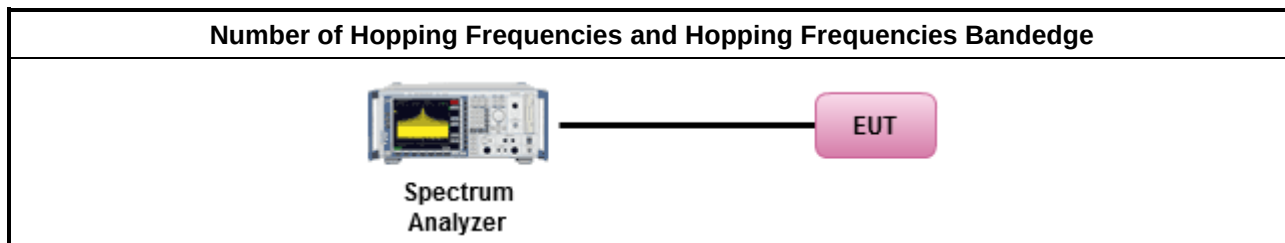
3.4.3 Measuring Instruments

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	

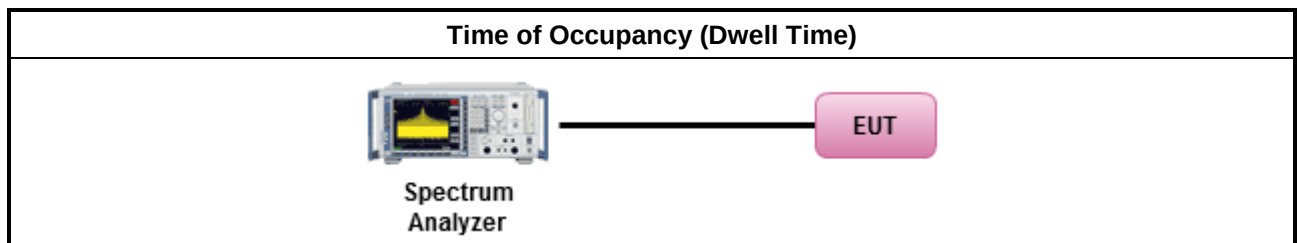
3.5.2 Measuring Instruments

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.	

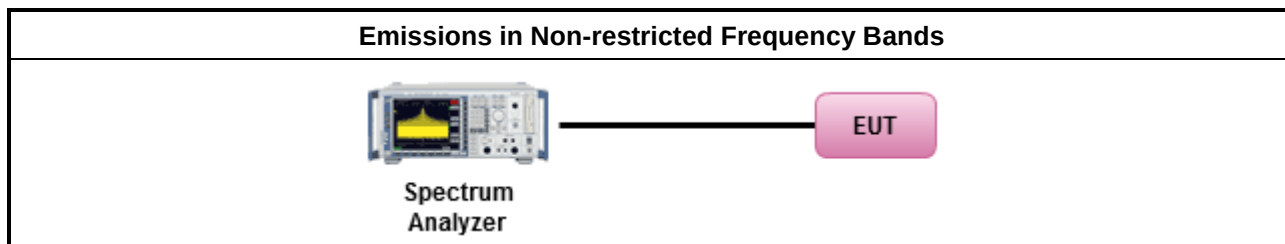
3.6.2 Measuring Instruments

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

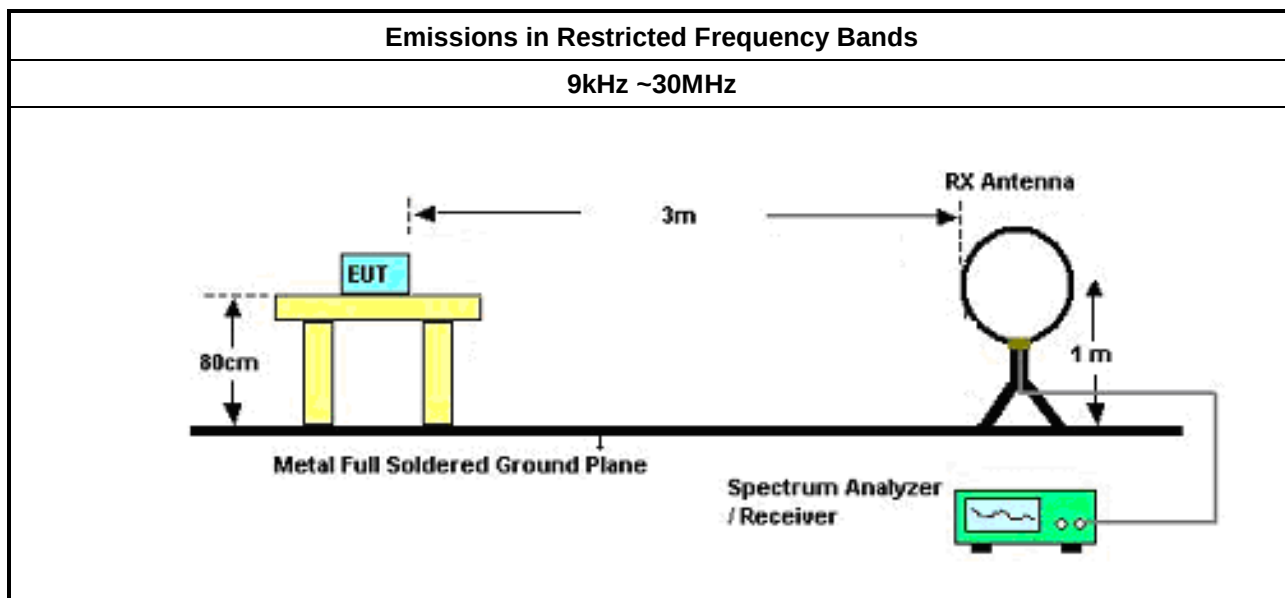
Test Method	
- The average emission levels shall be measured in [hopping duty factor]. - Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band. - For the transmitter unwanted emissions shall 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.	

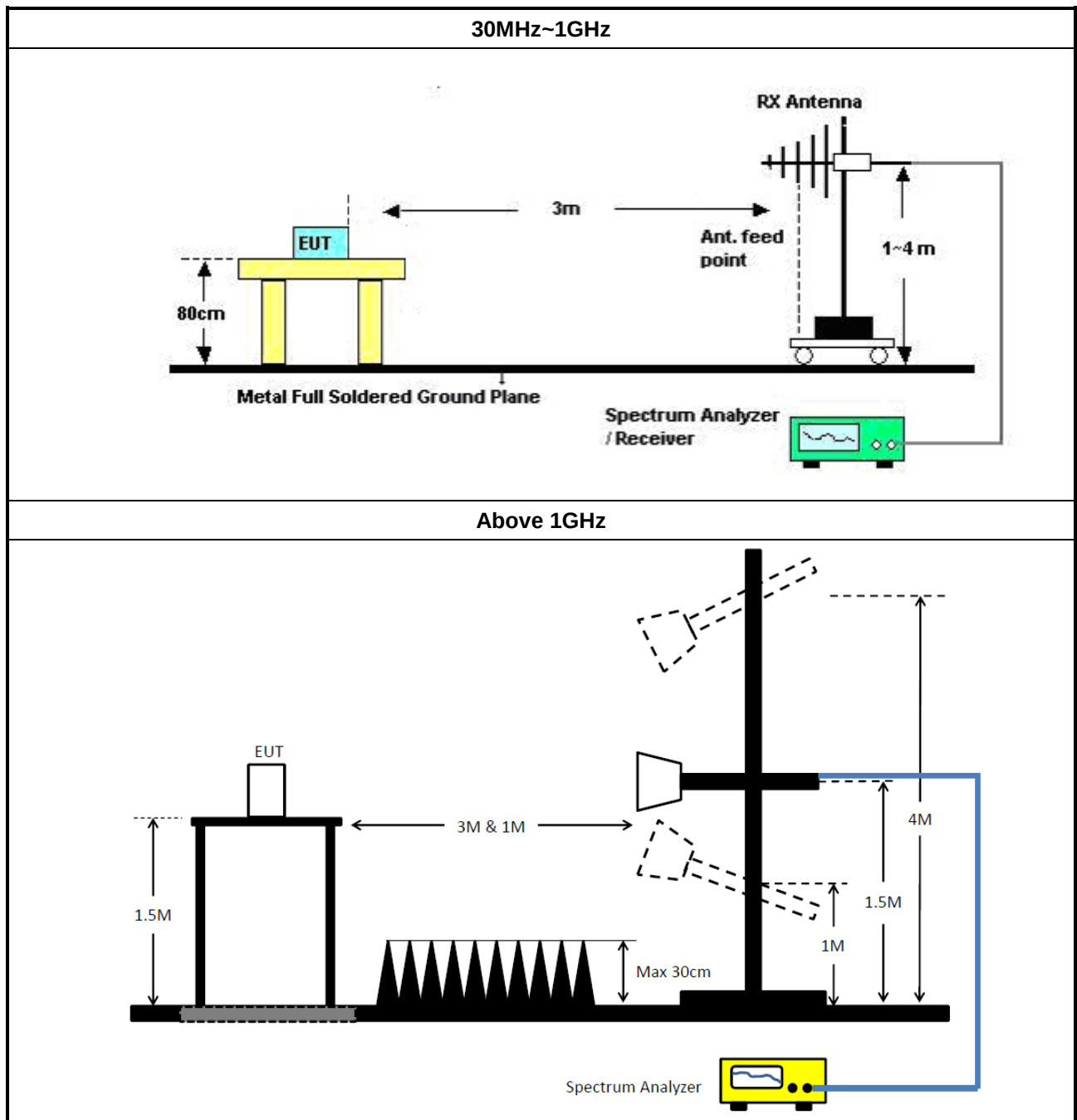
3.7.4 Measurement Results Calculation

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	21/May/2025	20/May/2026
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101578	9kHz ~ 30MHz	24/Aug/2025	23/Aug/2026
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRO NIK	NSLK 8127	8127477	9kHz ~ 30MHz	15/May/2025	14/May/2026
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Pulse Limiter	ROHDE & SCHWARZ	VTSD 9561F-N	1056	9kHz ~ 30MHz	25/Jun/2025	24/Jun/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**

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
Microwave Preamplifier	Agilent	8449B	3008A02602	1GHz ~18GHz	12/Mar/2025	11/Mar/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

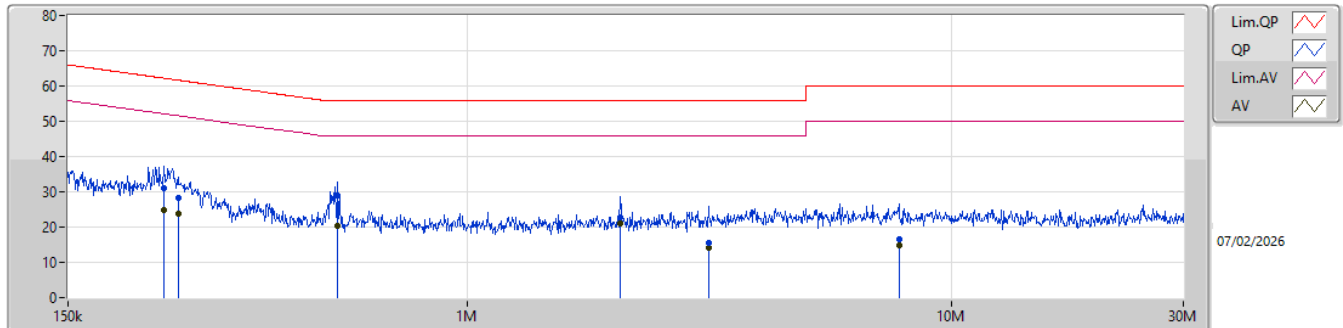
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	2.07M	21.21	46.00	-24.79	Neutral

Result

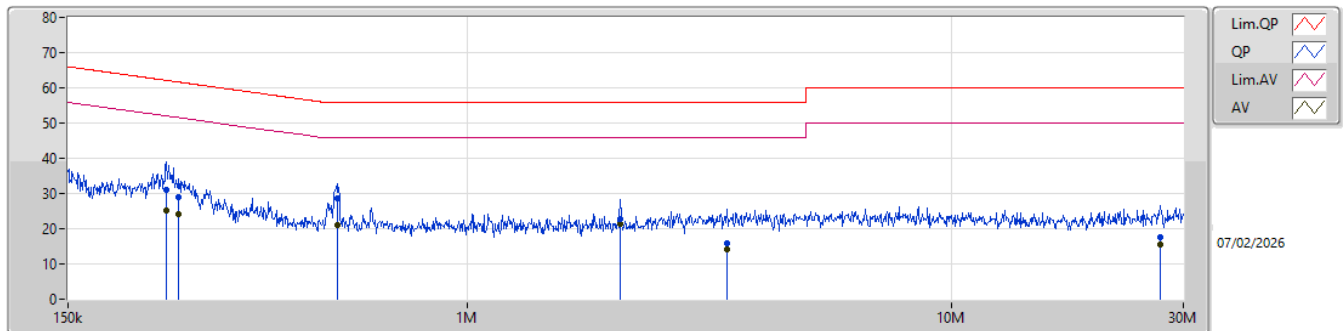
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	236.45k	31.15	62.21	-31.06	Line
Mode 1	Pass	AV	236.45k	24.87	52.21	-27.34	Line
Mode 1	Pass	QP	253.05k	28.23	61.66	-33.43	Line
Mode 1	Pass	AV	253.05k	23.65	51.66	-28.01	Line
Mode 1	Pass	QP	540.27k	29.06	56.00	-26.94	Line
Mode 1	Pass	AV	540.27k	20.19	46.00	-25.81	Line
Mode 1	Pass	QP	2.07M	22.70	56.00	-33.30	Line
Mode 1	Pass	AV	2.07M	21.10	46.00	-24.90	Line
Mode 1	Pass	QP	3.14M	15.67	56.00	-40.33	Line
Mode 1	Pass	AV	3.14M	14.11	46.00	-31.89	Line
Mode 1	Pass	QP	7.78M	16.55	60.00	-43.45	Line
Mode 1	Pass	AV	7.78M	14.91	50.00	-35.09	Line
Mode 1	Pass	QP	239.3k	31.12	62.12	-31.00	Neutral
Mode 1	Pass	AV	239.3k	25.18	52.12	-26.94	Neutral
Mode 1	Pass	QP	254.06k	28.82	61.62	-32.80	Neutral
Mode 1	Pass	AV	254.06k	24.26	51.62	-27.36	Neutral
Mode 1	Pass	QP	538.12k	28.70	56.00	-27.30	Neutral
Mode 1	Pass	AV	538.12k	21.16	46.00	-24.84	Neutral
Mode 1	Pass	QP	2.07M	22.70	56.00	-33.30	Neutral
Mode 1	Pass	AV	2.07M	21.21	46.00	-24.79	Neutral
Mode 1	Pass	QP	3.43M	15.73	56.00	-40.27	Neutral
Mode 1	Pass	AV	3.43M	14.21	46.00	-31.79	Neutral
Mode 1	Pass	QP	26.91M	17.72	60.00	-42.28	Neutral
Mode 1	Pass	AV	26.91M	15.65	50.00	-34.35	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	236.45k	31.15	62.21	-31.06	19.77	Line	11.38	9.64	0.01	10.12								
AV	236.45k	24.87	52.21	-27.34	19.77	Line	5.10	9.64	0.01	10.12								
QP	253.05k	28.23	61.66	-33.43	19.78	Line	8.45	9.64	0.02	10.12								
AV	253.05k	23.65	51.66	-28.01	19.78	Line	3.87	9.64	0.02	10.12								
QP	540.27k	29.06	56.00	-26.94	19.79	Line	9.27	9.63	0.04	10.12								
AV	540.27k	20.19	46.00	-25.81	19.79	Line	0.40	9.63	0.04	10.12								
QP	2.07M	22.70	56.00	-33.30	19.81	Line	2.89	9.65	0.03	10.13								
AV	2.07M	21.10	46.00	-24.90	19.81	Line	1.29	9.65	0.03	10.13								
QP	3.14M	15.67	56.00	-40.33	19.83	Line	-4.16	9.66	0.04	10.13								
AV	3.14M	14.11	46.00	-31.89	19.83	Line	-5.72	9.66	0.04	10.13								
QP	7.78M	16.55	60.00	-43.45	20.01	Line	-3.46	9.68	0.19	10.14								
AV	7.78M	14.91	50.00	-35.09	20.01	Line	-5.10	9.68	0.19	10.14								

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	239.3k	31.12	62.12	-31.00	19.77	Neutral	11.35	9.63	0.02	10.12								
AV	239.3k	25.18	52.12	-26.94	19.77	Neutral	5.41	9.63	0.02	10.12								
QP	254.06k	28.82	61.62	-32.80	19.77	Neutral	9.05	9.63	0.02	10.12								
AV	254.06k	24.26	51.62	-27.36	19.77	Neutral	4.49	9.63	0.02	10.12								
QP	538.12k	28.70	56.00	-27.30	19.79	Neutral	8.91	9.63	0.04	10.12								
AV	538.12k	21.16	46.00	-24.84	19.79	Neutral	1.37	9.63	0.04	10.12								
QP	2.07M	22.70	56.00	-33.30	19.81	Neutral	2.89	9.65	0.03	10.13								
AV	2.07M	21.21	46.00	-24.79	19.81	Neutral	1.40	9.65	0.03	10.13								
QP	3.43M	15.73	56.00	-40.27	19.84	Neutral	-4.11	9.66	0.05	10.13								
AV	3.43M	14.21	46.00	-31.79	19.84	Neutral	-5.63	9.66	0.05	10.13								
QP	26.91M	17.72	60.00	-42.28	20.15	Neutral	-2.43	9.68	0.35	10.12								
AV	26.91M	15.65	50.00	-34.35	20.15	Neutral	-4.50	9.68	0.35	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-BR(1Mbps)_1TX(Port1)	921.25k	888.306k	888KF1D	918.5k	857.071k
BT-EDR(2Mbps)_1TX(Port1)	1.389M	1.234M	1M23G1D	1.345M	1.201M
BT-EDR(3Mbps)_1TX(Port1)	1.381M	1.237M	1M24G1D	1.262M	1.203M

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)_1TX(Port1)	-	-	-	-
2402MHz	Pass	Inf	921.25k	857.071k
2440MHz	Pass	Inf	921.25k	888.306k
2480MHz	Pass	Inf	918.5k	879.56k
BT-EDR(2Mbps)_1TX(Port1)	-	-	-	-
2402MHz	Pass	Inf	1.345M	1.201M
2440MHz	Pass	Inf	1.389M	1.234M
2480MHz	Pass	Inf	1.364M	1.214M
BT-EDR(3Mbps)_1TX(Port1)	-	-	-	-
2402MHz	Pass	Inf	1.381M	1.211M
2440MHz	Pass	Inf	1.295M	1.237M
2480MHz	Pass	Inf	1.262M	1.203M

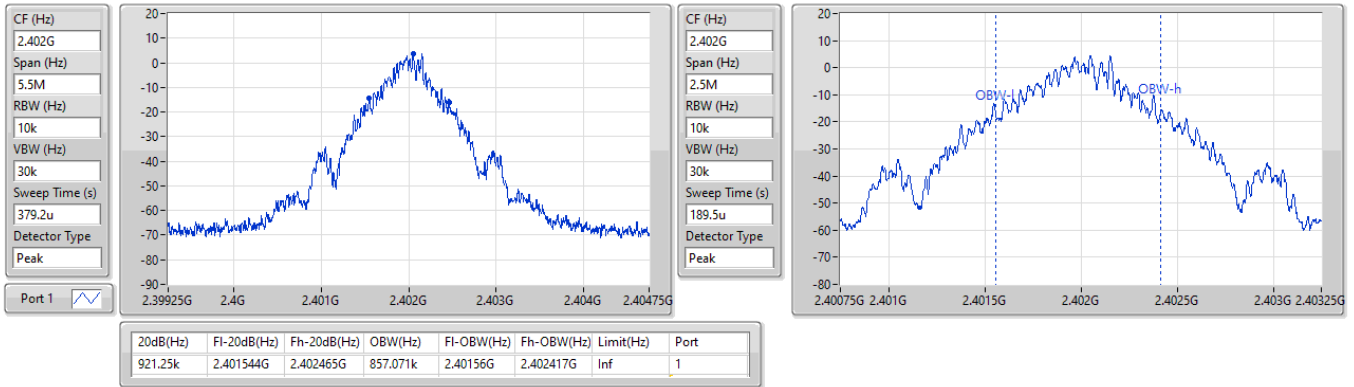
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-BR(1Mbps)_1TX(Port1)

EBW-FS

2402MHz

29/01/2026

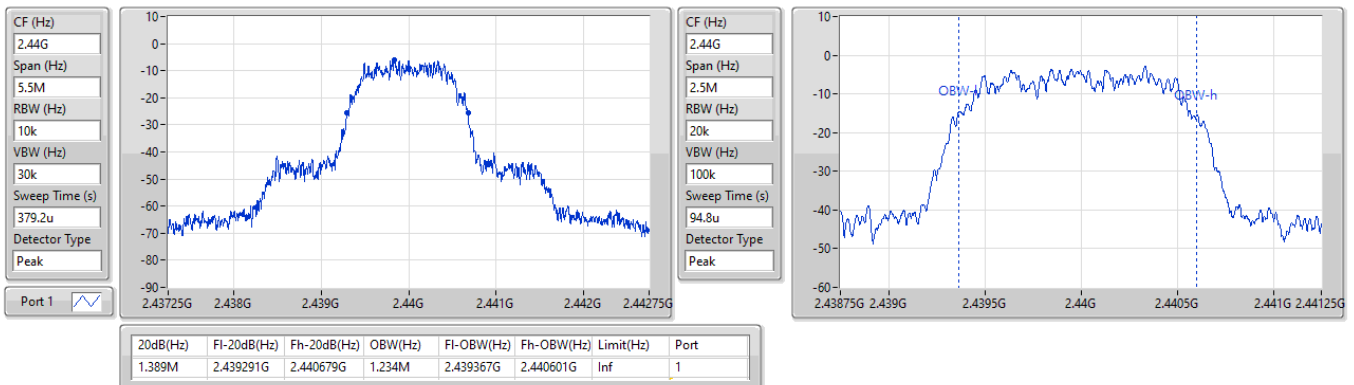


2.4-2.4835GHz_BT-EDR(2Mbps)_1TX(Port1)

EBW-FS

2440MHz

29/01/2026

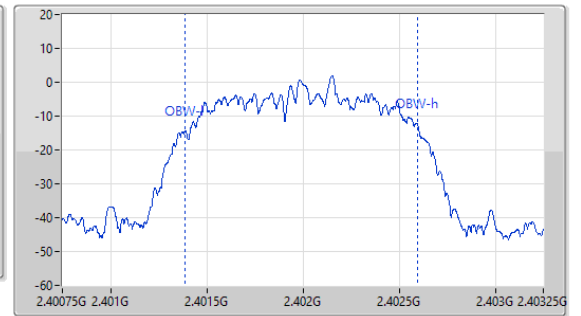
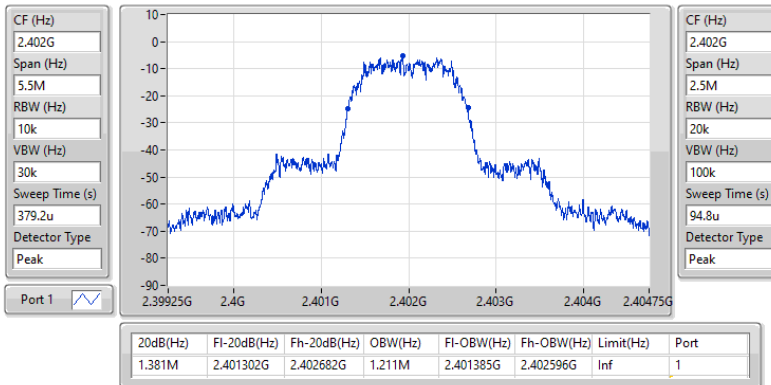


2.4-2.4835GHz_BT-EDR(3Mbps)_1TX(Port1)

EBW-FS

2402MHz

29/01/2026





Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)_1TX(Port1)	1.0035M	1.0005M
BT-EDR(2Mbps)_1TX(Port1)	999k	997.5k
BT-EDR(3Mbps)_1TX(Port1)	1.002M	1.0005M

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)_1TX(Port1)	-	-	-	-	-
2402MHz	Pass	2.402146G	2.40315G	1.0035M	613.5525k
2440MHz	Pass	2.44014G	2.441142G	1.002M	613.5525k
2480MHz	Pass	2.479133G	2.480133G	1.0005M	611.721k
BT-EDR(2Mbps)_1TX(Port1)	-	-	-	-	-
2402MHz	Pass	2.401996G	2.402994G	997.5k	895.77k
2440MHz	Pass	2.439989G	2.440988G	999k	925.074k
2480MHz	Pass	2.478981G	2.47998G	999k	908.424k
BT-EDR(3Mbps)_1TX(Port1)	-	-	-	-	-
2402MHz	Pass	2.402148G	2.403148G	1.0005M	919.746k
2440MHz	Pass	2.44014G	2.441141G	1.0005M	862.47k
2480MHz	Pass	2.479136G	2.480138G	1.002M	840.492k

2.4-2.4835GHz_BT-BR(1Mbps)_1TX(Port1)

Channel Separation-FS

2.48G/2.479GHz

29/01/2026

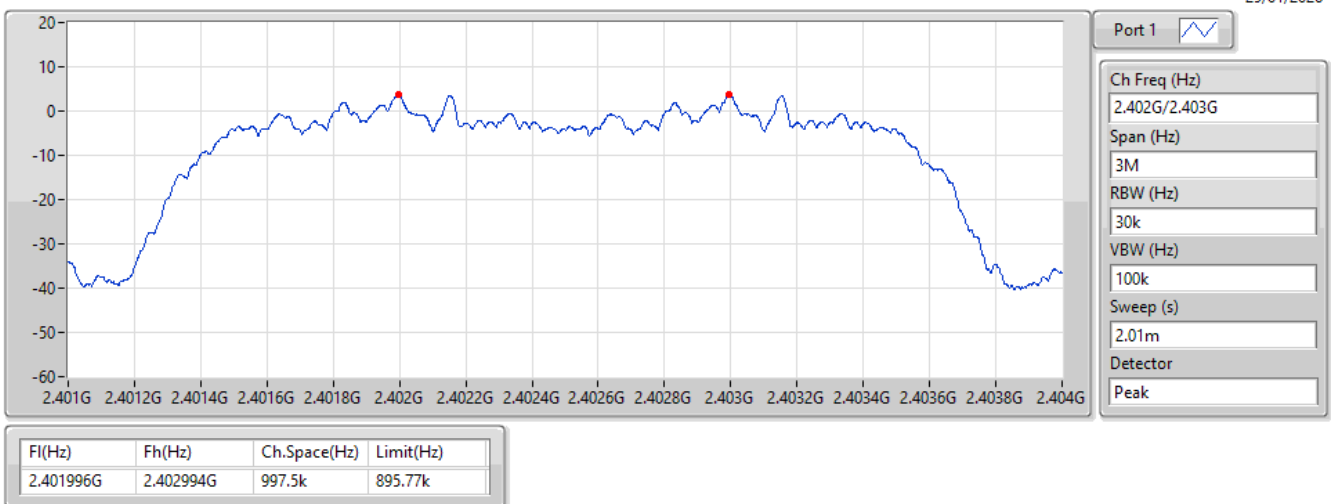


2.4-2.4835GHz_BT-EDR(2Mbps)_1TX(Port1)

Channel Separation-FS

2.402G/2.403GHz

29/01/2026

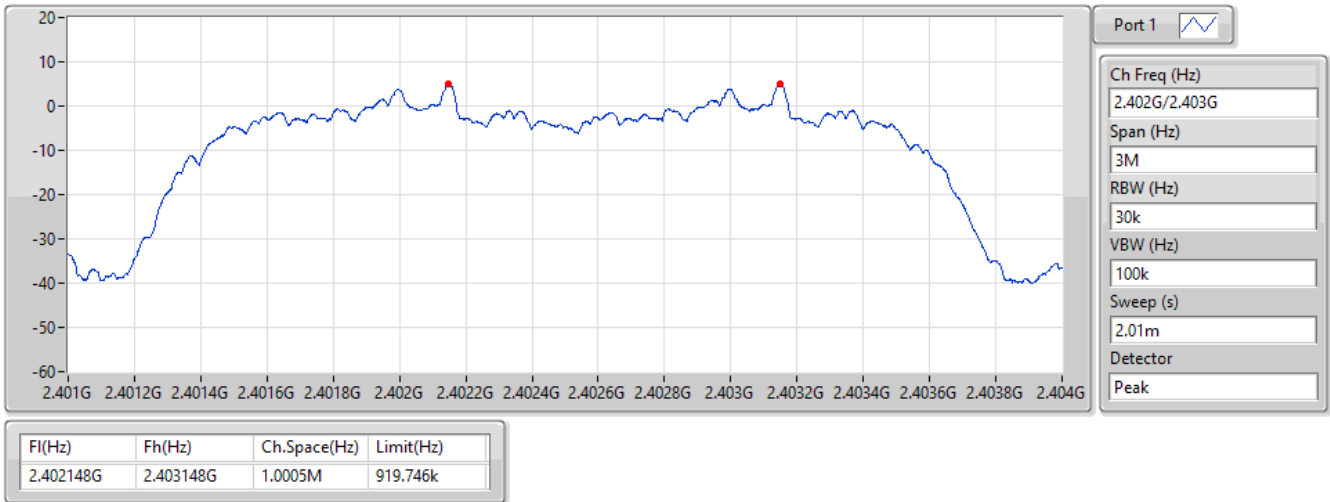


2.4-2.4835GHz_BT-EDR(3Mbps)_1TX(Port1)

Channel Separation-FS

2.402G/2.403GHz

29/01/2026





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)_1TX(Port1)	10.59	0.01146
BT-EDR(2Mbps)_1TX(Port1)	8.61	0.00726
BT-EDR(3Mbps)_1TX(Port1)	8.96	0.00787

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)_1TX(Port1)	-	-	-	-
2402MHz	Pass	4.50	10.59	30.00
2440MHz	Pass	4.50	10.40	30.00
2480MHz	Pass	4.50	10.00	30.00
BT-EDR(2Mbps)_1TX(Port1)	-	-	-	-
2402MHz	Pass	4.50	8.61	30.00
2440MHz	Pass	4.50	8.25	30.00
2480MHz	Pass	4.50	7.98	30.00
BT-EDR(3Mbps)_1TX(Port1)	-	-	-	-
2402MHz	Pass	4.50	8.96	30.00
2440MHz	Pass	4.50	8.46	30.00
2480MHz	Pass	4.50	8.26	30.00

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)_1TX(Port1)	10.39	0.01094
BT-EDR(2Mbps)_1TX(Port1)	6.29	0.00426
BT-EDR(3Mbps)_1TX(Port1)	6.40	0.00437

**Result**

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)_1TX(Port1)	-	-	-	-
2402MHz	Pass	4.50	10.39	30.00
2440MHz	Pass	4.50	10.13	30.00
2480MHz	Pass	4.50	9.64	30.00
BT-EDR(2Mbps)_1TX(Port1)	-	-	-	-
2402MHz	Pass	4.50	6.29	30.00
2440MHz	Pass	4.50	5.85	30.00
2480MHz	Pass	4.50	5.60	30.00
BT-EDR(3Mbps)_1TX(Port1)	-	-	-	-
2402MHz	Pass	4.50	6.40	30.00
2440MHz	Pass	4.50	5.94	30.00
2480MHz	Pass	4.50	5.67	30.00

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



Summary

Mode 2.4-2.4835GHz	Max-Hop No
	-
BT-BR(1Mbps)_1TX(Port1)	79
BT-EDR(2Mbps)_1TX(Port1)	79
BT-EDR(3Mbps)_1TX(Port1)	79

Result

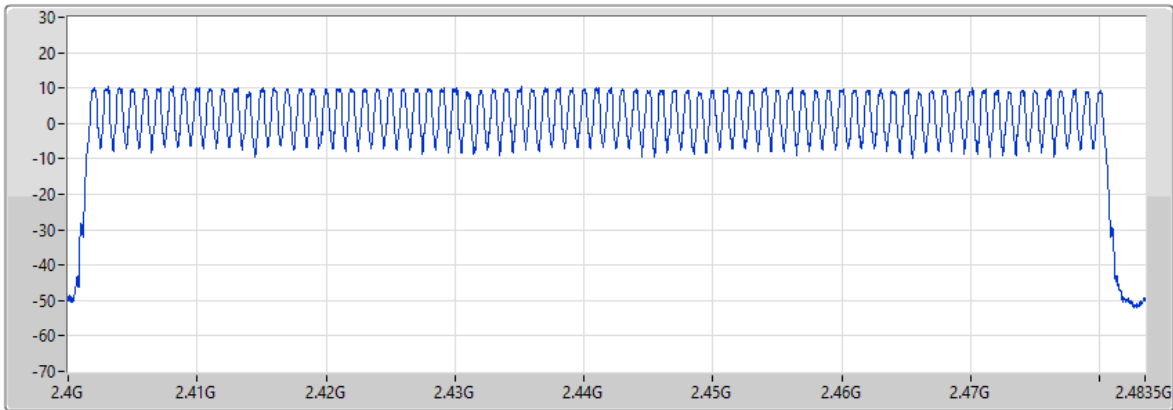
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)_1TX(Port1)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)_1TX(Port1)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)_1TX(Port1)	-	-	-
2440MHz	Pass	79	15

2.4-2.4835GHz_BT-BR(1Mbps)_1TX(Port1)

Hopping-FS

2440MHz

29/01/2026



Port 1 

Hopping No
79

Span (Hz)
83.5M

RBW (Hz)
100k

VBW (Hz)
300kHz

Sweep (s)
132.6us

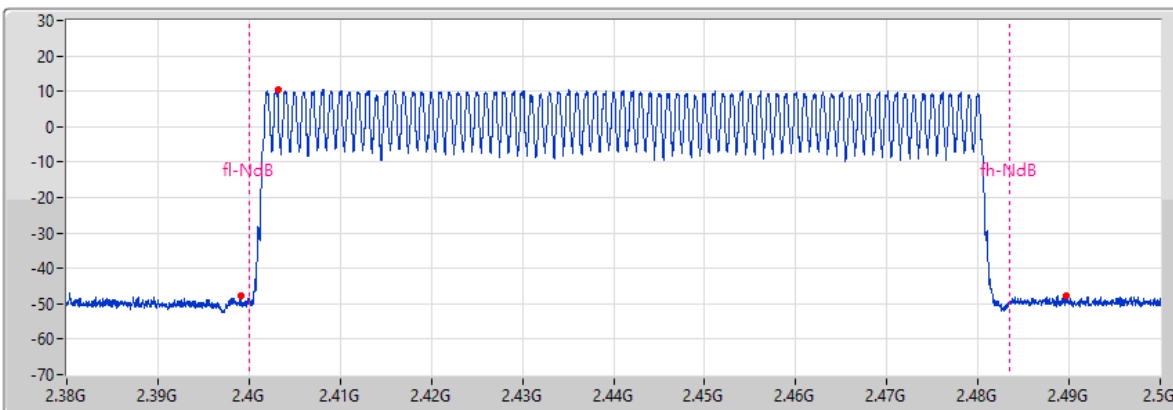
Detector
Peak

2.4-2.4835GHz_BT-BR(1Mbps)_1TX(Port1)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

29/01/2026



Port 1 

Span (Hz)
120M

RBW (Hz)
100k

VBW (Hz)
300k

Sweep (s)
132.6u

Detector
Peak

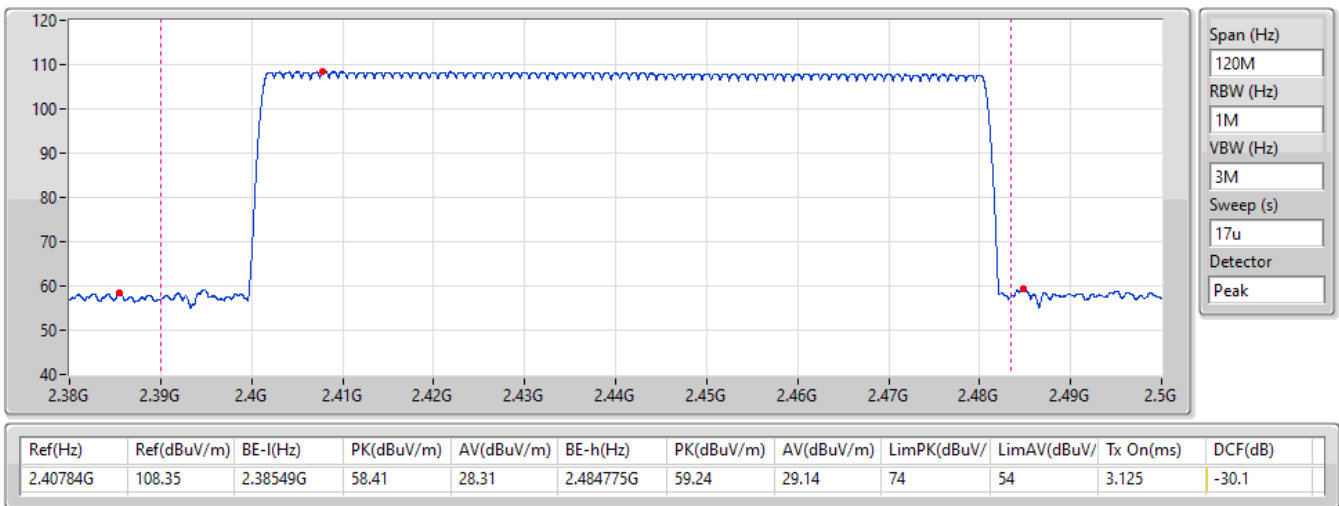
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-9.58	2.403145G	10.42	2.399095G	-47.86	2.48974G	-47.83

2.4-2.4835GHz_BT-BR(1Mbps)_1TX(Port1)

2440MHz

Hopping Ch Bandedge (Restricted Band)

29/01/2026

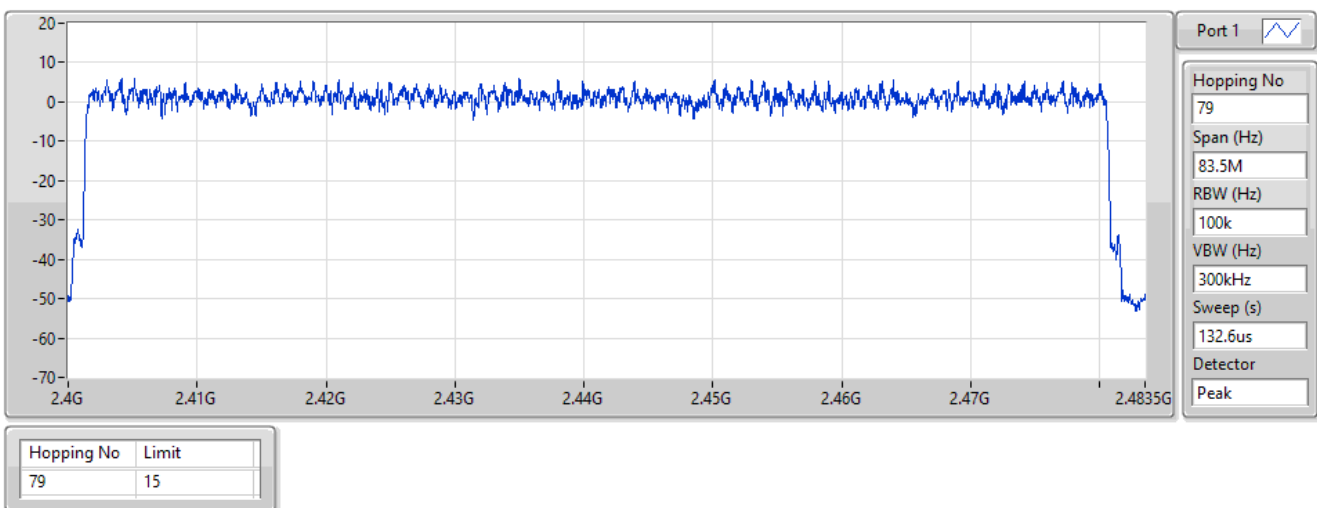


2.4-2.4835GHz_BT-EDR(2Mbps)_1TX(Port1)

2440MHz

Hopping-FS

29/01/2026

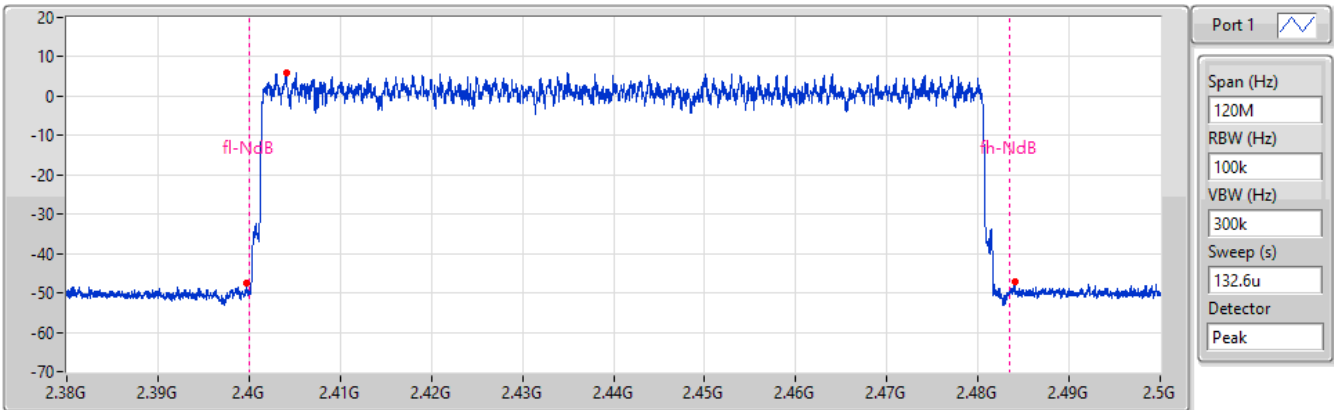


2.4-2.4835GHz_BT-EDR(2Mbps)_1TX(Port1)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

29/01/2026

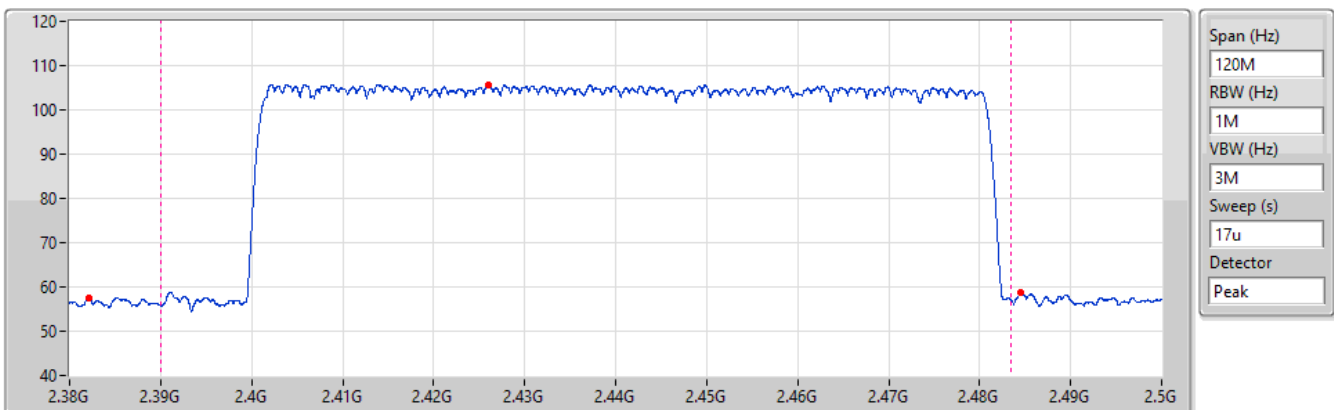


2.4-2.4835GHz_BT-EDR(2Mbps)_1TX(Port1)

2440MHz

Hopping Ch Bandedge (Restricted Band)

29/01/2026

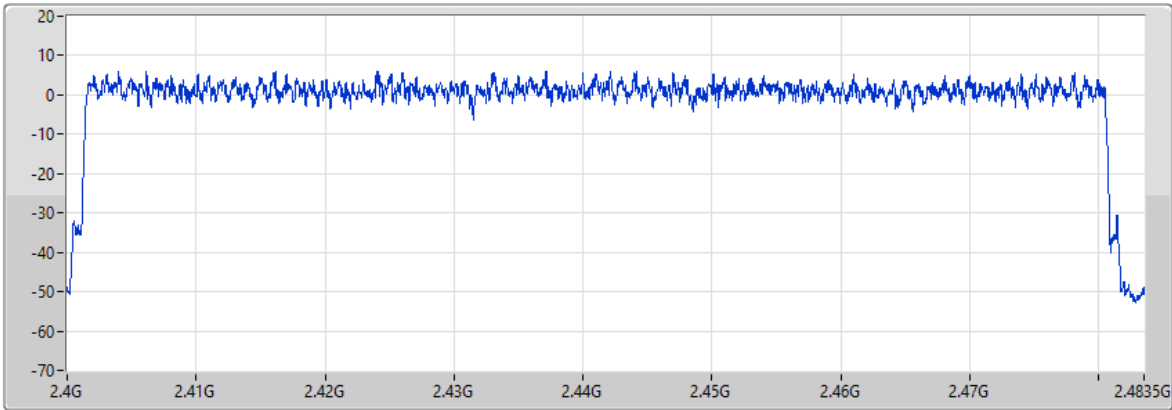


2.4-2.4835GHz_BT-EDR(3Mbps)_1TX(Port1)

Hopping-FS

2440MHz

29/01/2026



Port 1 

Hopping No
79

Span (Hz)
83.5M

RBW (Hz)
100k

VBW (Hz)
300kHz

Sweep (s)
132.6us

Detector
Peak

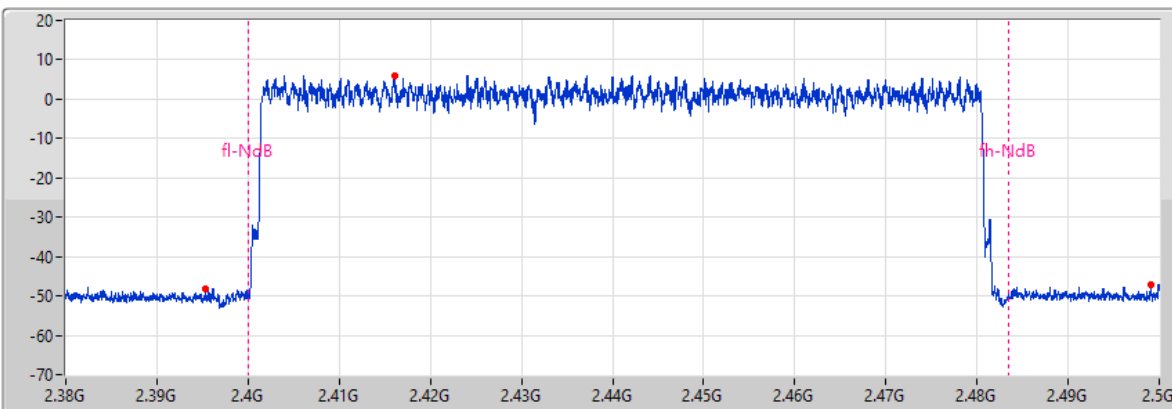
Hopping No	Limit
79	15

2.4-2.4835GHz_BT-EDR(3Mbps)_1TX(Port1)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

29/01/2026



Port 1 

Span (Hz)
120M

RBW (Hz)
100k

VBW (Hz)
300k

Sweep (s)
132.6u

Detector
Peak

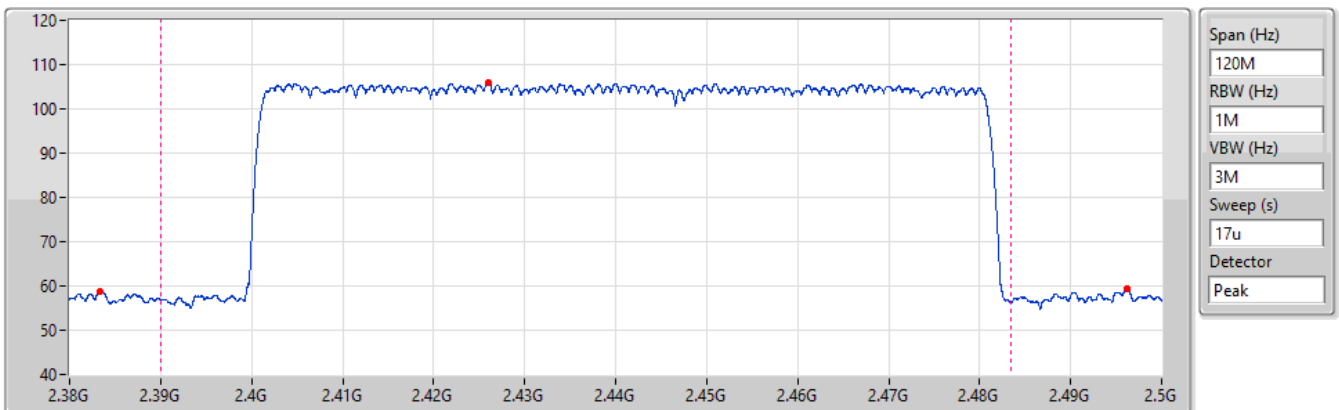
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-14	2.416135G	6	2.395345G	-48.07	2.499085G	-47.05

2.4-2.4835GHz_BT-EDR(3Mbps)_1TX(Port1)

2440MHz

Hopping Ch Bandedge (Restricted Band)

29/01/2026



Span (Hz)
120M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep (s)
17u
Detector
Peak

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)
2.425975G	106	2.383375G	58.76	28.66	2.496175G	59.39	29.29	74	54	3.125	-30.1



Summary

2.4-2.4835GHz	-
BT-BR(1Mbps)_1TX(Port1)	308.8735m_DH5
BT-EDR(2Mbps)_1TX(Port1)	309.0867m_DH5
BT-EDR(3Mbps)_1TX(Port1)	309.27325m_DH5

Result

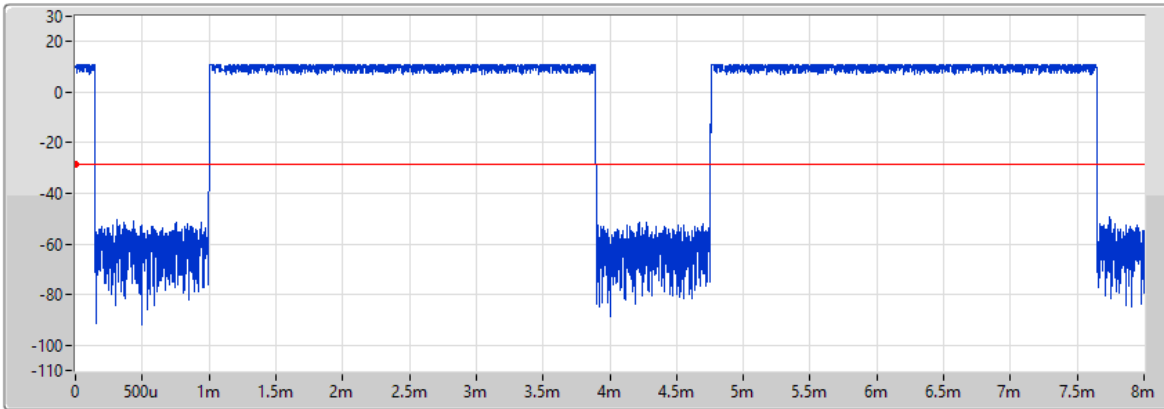
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)_1TX(Port1)	-	-	-	-	-
2440MHz	Pass	31.6	308.8735m_DH5	400m	2.8975m
2440MHz	Pass	8	154.49005m_DH5-AFH	400m	2.8985m
BT-EDR(2Mbps)_1TX(Port1)	-	-	-	-	-
2440MHz	Pass	31.6	309.0867m_DH5	400m	2.8995m
2440MHz	Pass	8	154.54335m_DH5-AFH	400m	2.8995m
BT-EDR(3Mbps)_1TX(Port1)	-	-	-	-	-
2440MHz	Pass	31.6	309.27325m_DH5	400m	2.90125m
2440MHz	Pass	8	154.636625m_DH5-AFH	400m	2.90125m

2.4-2.4835GHz_BT-BR(1Mbps)_1TX(Port1)

Dwell-FS

2440MHz

29/01/2026



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
2.8975m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.8735m_DH5	400m	2.8975m

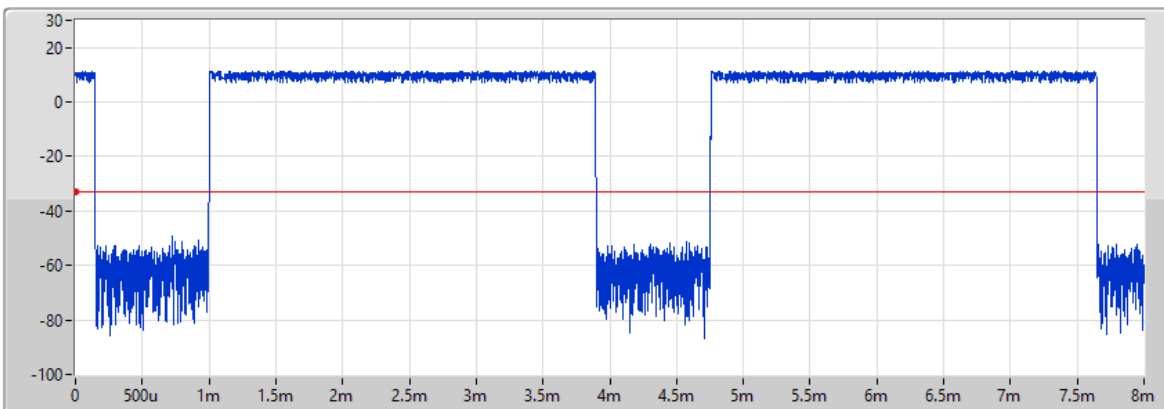
DH5

2.4-2.4835GHz_BT-BR(1Mbps)_1TX(Port1)

Dwell-FS

2440MHz

29/01/2026



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
2.8985m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.49005m_DH5-AFH	400m	2.8985m

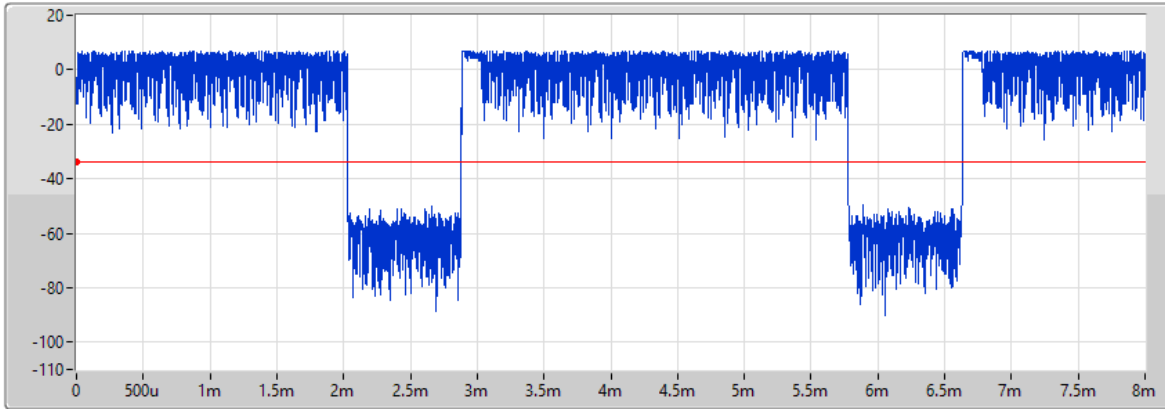
DH5-AFH

2.4-2.4835GHz_BT-EDR(2Mbps)_1TX(Port1)

Dwell-FS

2440MHz

29/01/2026



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
2.8995m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	309.0867m_DH5	400m	2.8995m

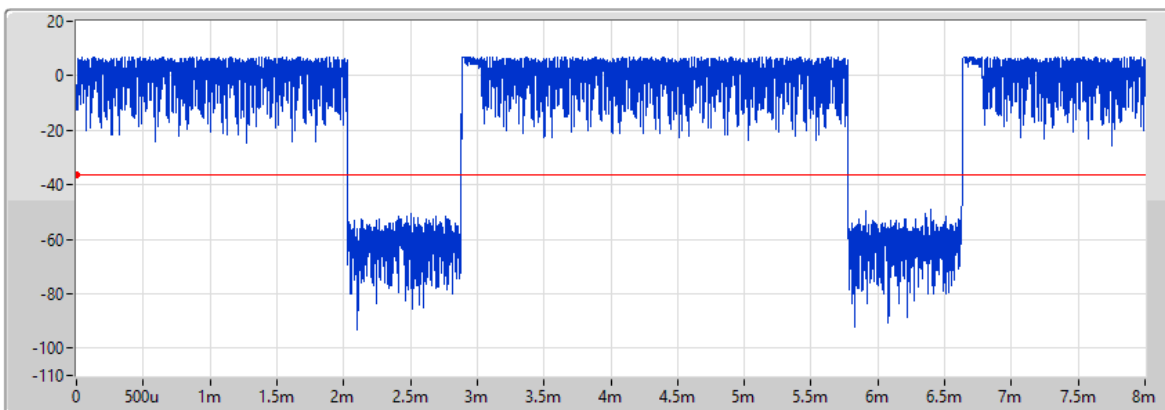
DH5

2.4-2.4835GHz_BT-EDR(2Mbps)_1TX(Port1)

Dwell-FS

2440MHz

29/01/2026



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
2.8995m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.54335m_DH5-AFH	400m	2.8995m

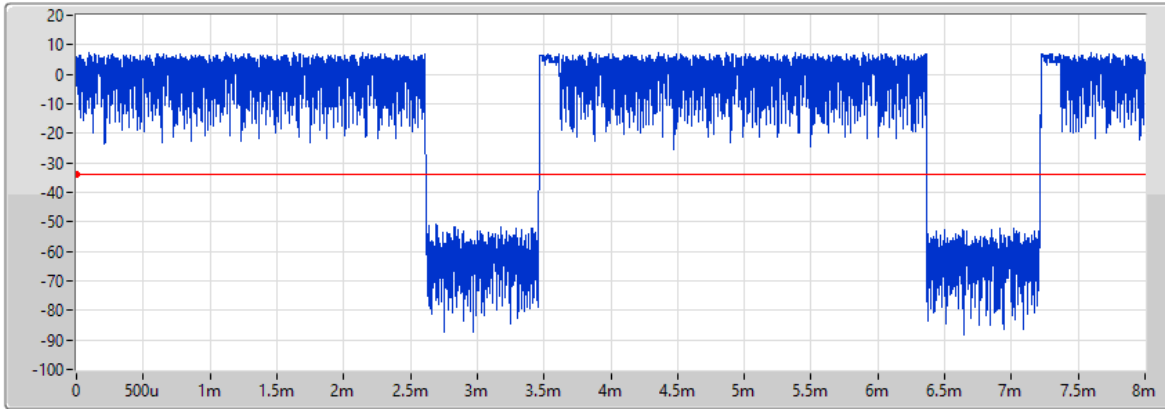
DH5-AFH

2.4-2.4835GHz_BT-EDR(3Mbps)_1TX(Port1)

Dwell-FS

2440MHz

29/01/2026



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
2.90125m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	309.27325m_DH5	400m	2.90125m

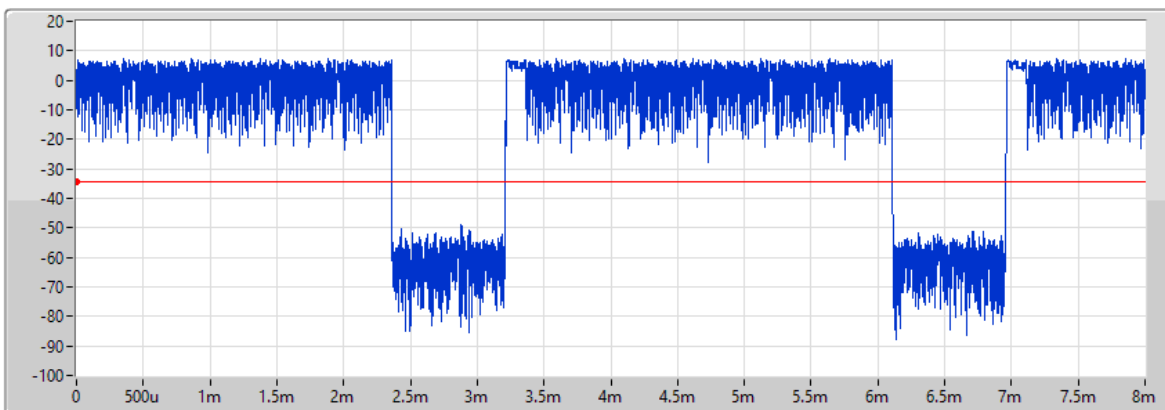
DH5

2.4-2.4835GHz_BT-EDR(3Mbps)_1TX(Port1)

Dwell-FS

2440MHz

29/01/2026



Port 1 

Ch Freq (Hz)
2.44G

RBW (Hz)
300k

VBW (Hz)
1M

Sweep Time (s)
8m

TX Time (s)
2.90125m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.636625m_DH5-AFI	400m	2.90125m

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)_1TX(Port1)	Pass	2.402G	9.82	-10.18	2.06745G	-44.54	2.39004G	-54.01	2.4G	-57.33	2.50102G	-54.53	24.8144G	-42.70	1
BT-EDR(2Mbps)_1TX(Port1)	Pass	2.40184G	4.82	-15.18	2.06745G	-48.75	2.3946G	-54.49	2.4G	-56.96	2.50058G	-55.07	16.42602G	-43.04	1
BT-EDR(3Mbps)_1TX(Port1)	Pass	2.402G	5.92	-14.08	2.06745G	-47.26	2.39096G	-54.48	2.4G	-56.22	2.50034G	-55.00	24.83128G	-43.67	1

Result

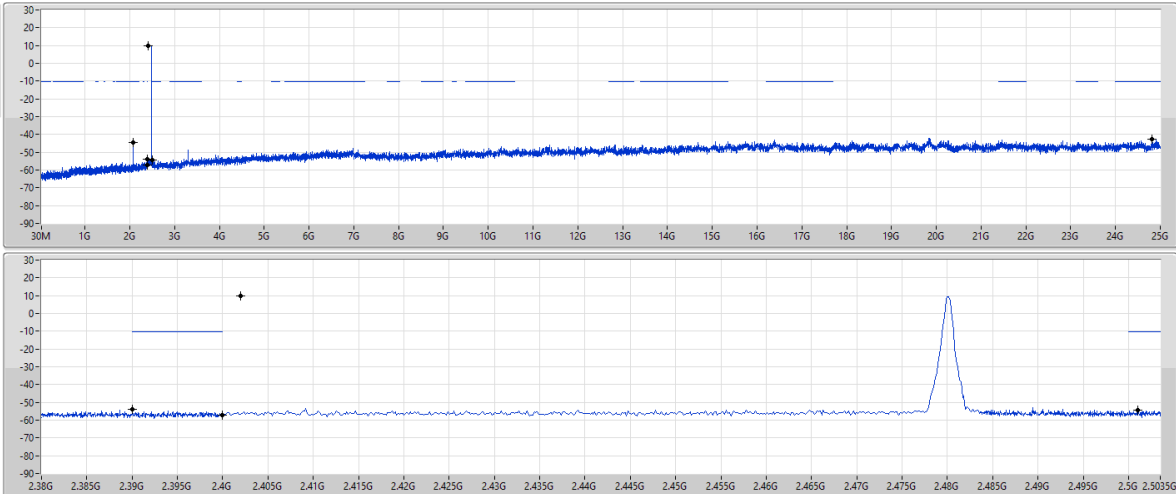
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	9.82	-10.18	2.00165G	-51.18	2.39976G	-50.36	2.4G	-51.29	2.50102G	-53.43	21.51304G	-42.87	1
2440MHz	Pass	2.402G	9.82	-10.18	2.03338G	-47.22	2.39504G	-53.90	2.4G	-57.10	2.50006G	-53.95	24.581G	-43.51	1
2480MHz	Pass	2.402G	9.82	-10.18	2.06745G	-44.54	2.39004G	-54.01	2.4G	-57.33	2.50102G	-54.53	24.8144G	-42.70	1
BT-EDR(2Mbps)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	4.82	-15.18	2.14148G	-55.53	2.3996G	-50.26	2.4G	-49.99	2.50202G	-54.27	24.14513G	-41.69	1
2440MHz	Pass	2.40184G	4.82	-15.18	2.03338G	-50.89	2.39992G	-54.86	2.4G	-56.05	2.50166G	-53.97	23.50117G	-42.89	1
2480MHz	Pass	2.40184G	4.82	-15.18	2.06745G	-48.75	2.3946G	-54.49	2.4G	-56.96	2.50058G	-55.07	16.42602G	-43.04	1
BT-EDR(3Mbps)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	5.92	-14.08	2.00165G	-51.51	2.3996G	-49.33	2.4G	-49.84	2.5005G	-55.08	23.19747G	-42.96	1
2440MHz	Pass	2.402G	5.92	-14.08	2.03338G	-48.91	2.39472G	-54.14	2.4G	-55.53	2.50146G	-54.80	24.80597G	-42.81	1
2480MHz	Pass	2.402G	5.92	-14.08	2.06745G	-47.26	2.39096G	-54.48	2.4G	-56.22	2.50034G	-55.00	24.83128G	-43.67	1

2.4-2.4835GHz_BT-BR(1Mbps)_1TX(Port1)

CSENdB-FS

2480MHz

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



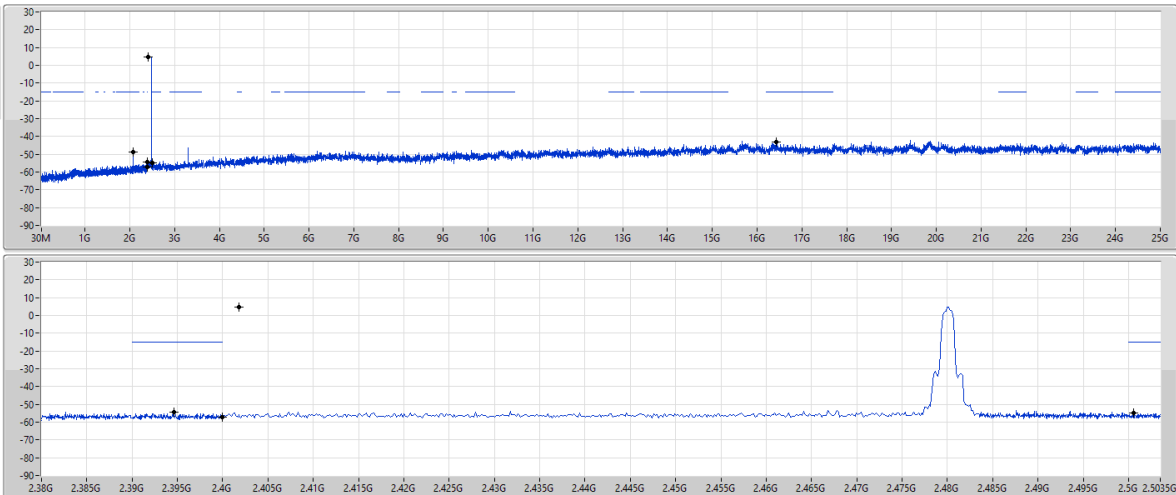
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.402G	9.82	-10.18	2.06745G	-44.54	2.39004G	-54.01	2.4G	-57.33	2.50102G	-54.53	2.48144G	-42.70	1

2.4-2.4835GHz_BT-EDR(2Mbps)_1TX(Port1)

CSENdB-FS

2480MHz

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
2.40184G	4.82	-15.18	2.06745G	-48.75	2.3946G	-54.49	2.4G	-56.96	2.50058G	-55.07	2.48184G	-43.04	1

2.4-2.4835GHz_BT-EDR(3Mbps)_1TX(Port1)

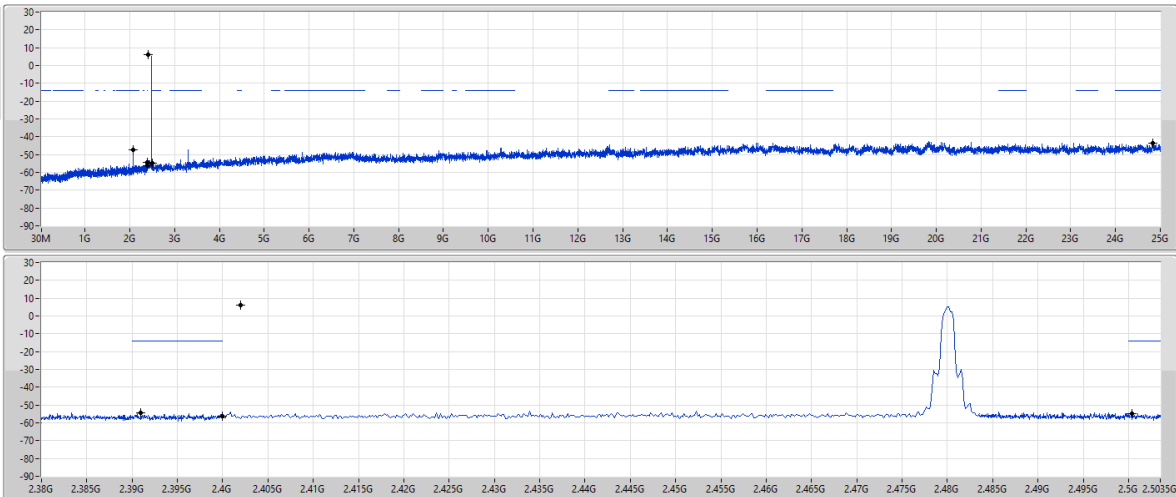
CSEndB-FS

2480MHz

29/01/2026

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	5.92	-14.08	2.06745G	-47.26	2.39096G	-54.48	2.4G	-56.22	2.50034G	-55.00	24.83128G	-43.67	1



Summary

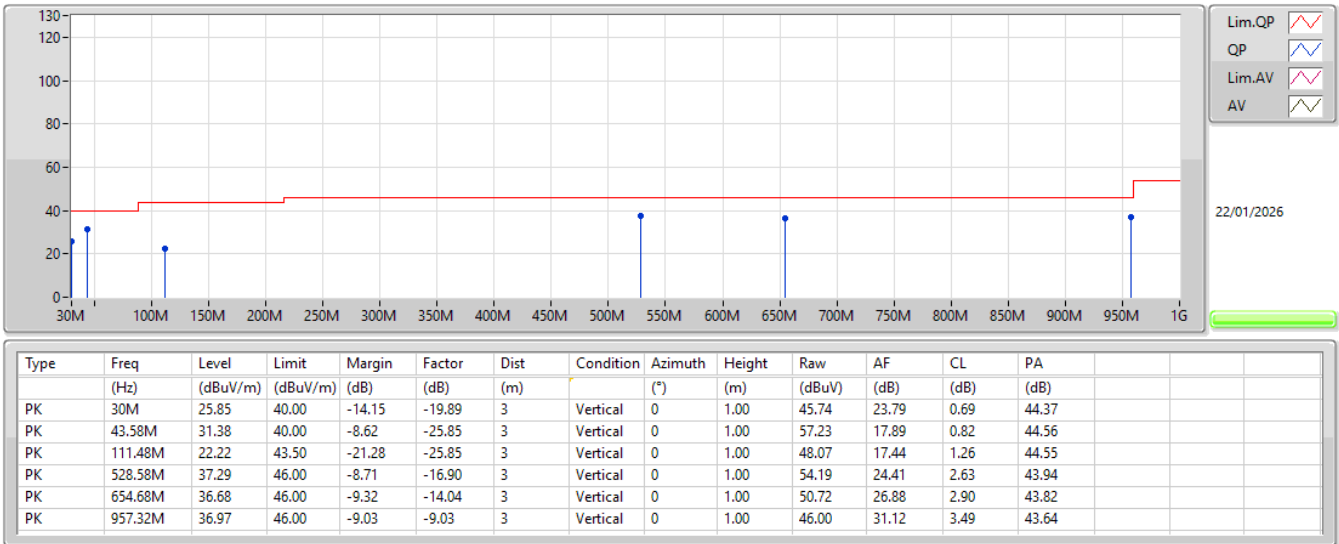
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-EDR(3Mbps)	Pass	PK	43.58M	31.38	40.00	-8.62	3	Vertical	0	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	30M	25.85	40.00	-14.15	3	Vertical	0	1.00
2440MHz	Pass	PK	43.58M	31.38	40.00	-8.62	3	Vertical	0	1.00
2440MHz	Pass	PK	111.48M	22.22	43.50	-21.28	3	Vertical	0	1.00
2440MHz	Pass	PK	528.58M	37.29	46.00	-8.71	3	Vertical	0	1.00
2440MHz	Pass	PK	654.68M	36.68	46.00	-9.32	3	Vertical	0	1.00
2440MHz	Pass	PK	957.32M	36.97	46.00	-9.03	3	Vertical	0	1.00
2440MHz	Pass	PK	30M	21.86	40.00	-18.14	3	Horizontal	360	1.00
2440MHz	Pass	PK	158.04M	23.10	43.50	-20.40	3	Horizontal	360	1.00
2440MHz	Pass	PK	262.8M	18.42	46.00	-27.58	3	Horizontal	360	1.00
2440MHz	Pass	PK	423.82M	25.69	46.00	-20.31	3	Horizontal	360	1.00
2440MHz	Pass	PK	526.64M	28.78	46.00	-17.22	3	Horizontal	360	1.00
2440MHz	Pass	PK	957.32M	32.40	46.00	-13.60	3	Horizontal	360	1.00

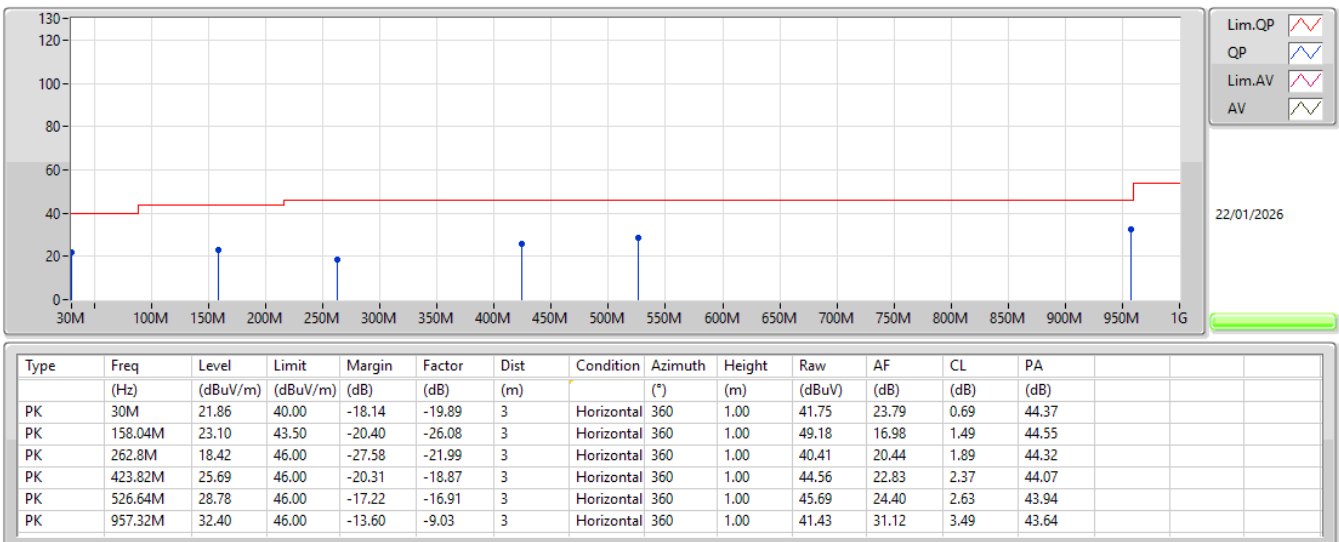
2.4-2.4835GHz_BT-EDR(3Mbps)_1TX(Port1)

2440MHz_Battery



2.4-2.4835GHz_BT-EDR(3Mbps)_1TX(Port1)

2440MHz_Battery





Summary

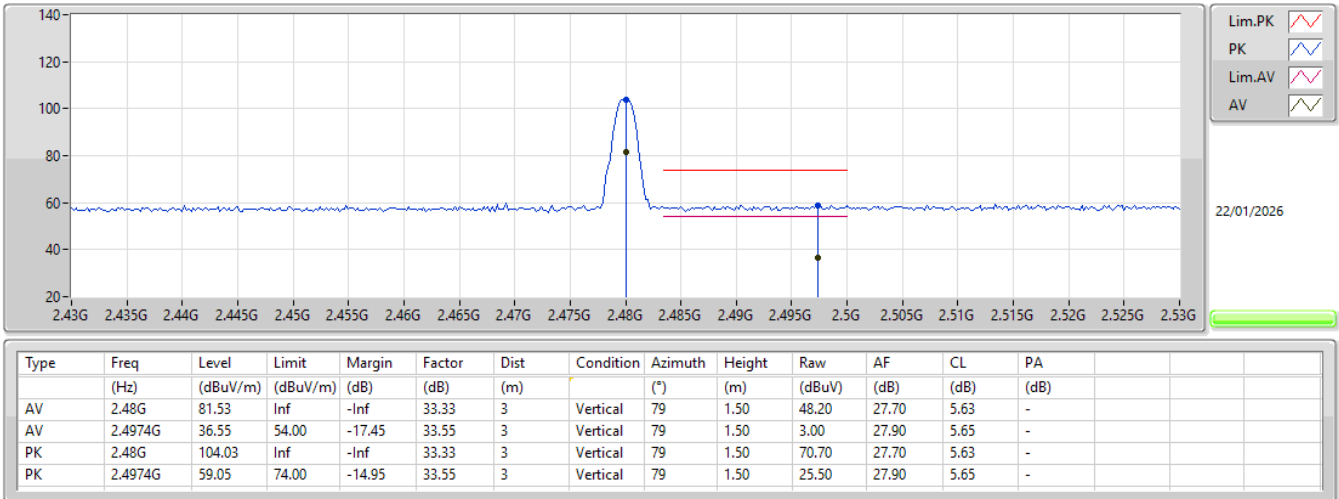
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	2.4974G	59.05	74.00	-14.95	3	Vertical	79	1.50
BT-EDR(3Mbps)	Pass	PK	2.4854G	60.10	74.00	-13.90	3	Vertical	79	1.50

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	2.36G	35.83	54.00	-18.17	3	Vertical	64	1.01
2402MHz	Pass	AV	2.4022G	81.48	Inf	-Inf	3	Vertical	64	1.01
2402MHz	Pass	PK	2.36G	58.33	74.00	-15.67	3	Vertical	64	1.01
2402MHz	Pass	PK	2.4022G	103.98	Inf	-Inf	3	Vertical	64	1.01
2402MHz	Pass	AV	4.80449G	21.60	54.00	-32.40	3	Vertical	144	1.38
2402MHz	Pass	PK	4.80449G	44.10	74.00	-29.90	3	Vertical	144	1.38
2402MHz	Pass	AV	4.80393G	21.96	54.00	-32.04	3	Horizontal	262	1.50
2402MHz	Pass	PK	4.80393G	44.46	74.00	-29.54	3	Horizontal	262	1.50
2440MHz	Pass	AV	2.3744G	35.78	54.00	-18.22	3	Vertical	71	1.50
2440MHz	Pass	AV	2.44G	80.21	Inf	-Inf	3	Vertical	71	1.50
2440MHz	Pass	AV	2.4908G	36.53	54.00	-17.47	3	Vertical	71	1.50
2440MHz	Pass	PK	2.3744G	58.28	74.00	-15.72	3	Vertical	71	1.50
2440MHz	Pass	PK	2.44G	102.71	Inf	-Inf	3	Vertical	71	1.50
2440MHz	Pass	PK	2.4908G	59.03	74.00	-14.97	3	Vertical	71	1.50
2440MHz	Pass	AV	4.88078G	22.16	54.00	-31.84	3	Vertical	294	1.50
2440MHz	Pass	PK	4.88078G	44.66	74.00	-29.34	3	Vertical	294	1.50
2440MHz	Pass	AV	4.88081G	22.50	54.00	-31.50	3	Horizontal	7	1.50
2440MHz	Pass	PK	4.88081G	45.00	74.00	-29.00	3	Horizontal	7	1.50
2480MHz	Pass	AV	2.48G	81.53	Inf	-Inf	3	Vertical	79	1.50
2480MHz	Pass	AV	2.4974G	36.55	54.00	-17.45	3	Vertical	79	1.50
2480MHz	Pass	PK	2.48G	104.03	Inf	-Inf	3	Vertical	79	1.50
2480MHz	Pass	PK	2.4974G	59.05	74.00	-14.95	3	Vertical	79	1.50
2480MHz	Pass	AV	4.95992G	22.59	54.00	-31.41	3	Vertical	69	1.01
2480MHz	Pass	PK	4.95992G	45.09	74.00	-28.91	3	Vertical	69	1.01
2480MHz	Pass	AV	4.9599G	22.82	54.00	-31.18	3	Horizontal	48	1.07
2480MHz	Pass	PK	4.9599G	45.32	74.00	-28.68	3	Horizontal	48	1.07
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3638G	35.65	54.00	-18.35	3	Vertical	66	1.01
2402MHz	Pass	AV	2.402G	79.11	Inf	-Inf	3	Vertical	66	1.01
2402MHz	Pass	PK	2.3638G	58.15	74.00	-15.85	3	Vertical	66	1.01
2402MHz	Pass	PK	2.402G	101.61	Inf	-Inf	3	Vertical	66	1.01
2402MHz	Pass	AV	4.8018G	21.88	54.00	-32.12	3	Vertical	141	1.72
2402MHz	Pass	PK	4.8018G	44.38	74.00	-29.62	3	Vertical	141	1.72
2402MHz	Pass	AV	4.80324G	22.29	54.00	-31.71	3	Horizontal	282	1.50
2402MHz	Pass	PK	4.80324G	44.79	74.00	-29.21	3	Horizontal	282	1.50
2440MHz	Pass	AV	2.3416G	35.69	54.00	-18.31	3	Vertical	77	1.01
2440MHz	Pass	AV	2.44G	79.43	Inf	-Inf	3	Vertical	77	1.01
2440MHz	Pass	AV	2.4908G	36.53	54.00	-17.47	3	Vertical	77	1.01
2440MHz	Pass	PK	2.3416G	58.19	74.00	-15.81	3	Vertical	77	1.01
2440MHz	Pass	PK	2.44G	101.93	Inf	-Inf	3	Vertical	77	1.01
2440MHz	Pass	PK	2.4908G	59.03	74.00	-14.97	3	Vertical	77	1.01
2440MHz	Pass	AV	4.88222G	21.80	54.00	-32.20	3	Vertical	100	2.06
2440MHz	Pass	PK	4.88222G	44.30	74.00	-29.70	3	Vertical	100	2.06
2440MHz	Pass	AV	4.8812G	22.37	54.00	-31.63	3	Horizontal	206	2.47
2440MHz	Pass	PK	4.8812G	44.87	74.00	-29.13	3	Horizontal	206	2.47
2480MHz	Pass	AV	2.48G	78.54	Inf	-Inf	3	Vertical	79	1.50
2480MHz	Pass	AV	2.4854G	37.60	54.00	-16.40	3	Vertical	79	1.50
2480MHz	Pass	PK	2.48G	101.04	Inf	-Inf	3	Vertical	79	1.50
2480MHz	Pass	PK	2.4854G	60.10	74.00	-13.90	3	Vertical	79	1.50
2480MHz	Pass	AV	4.96095G	23.02	54.00	-30.98	3	Vertical	24	1.50
2480MHz	Pass	PK	4.96095G	45.52	74.00	-28.48	3	Vertical	24	1.50
2480MHz	Pass	AV	4.96124G	22.90	54.00	-31.10	3	Horizontal	115	2.26
2480MHz	Pass	PK	4.96124G	45.40	74.00	-28.60	3	Horizontal	115	2.26

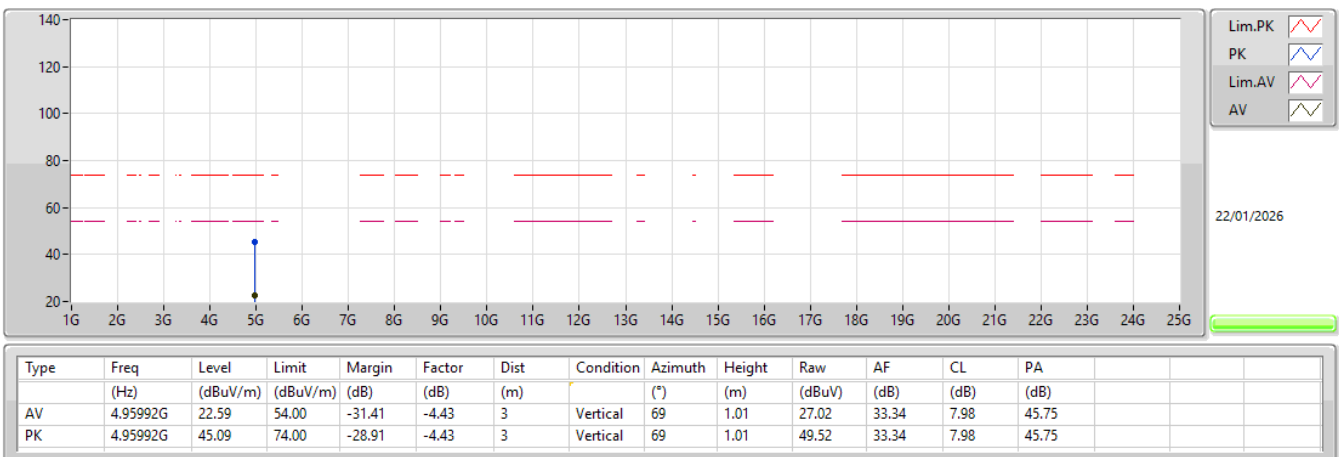
2.4-2.4835GHz_BT-BR(1Mbps)_1TX(Port1)

2480MHz_TX



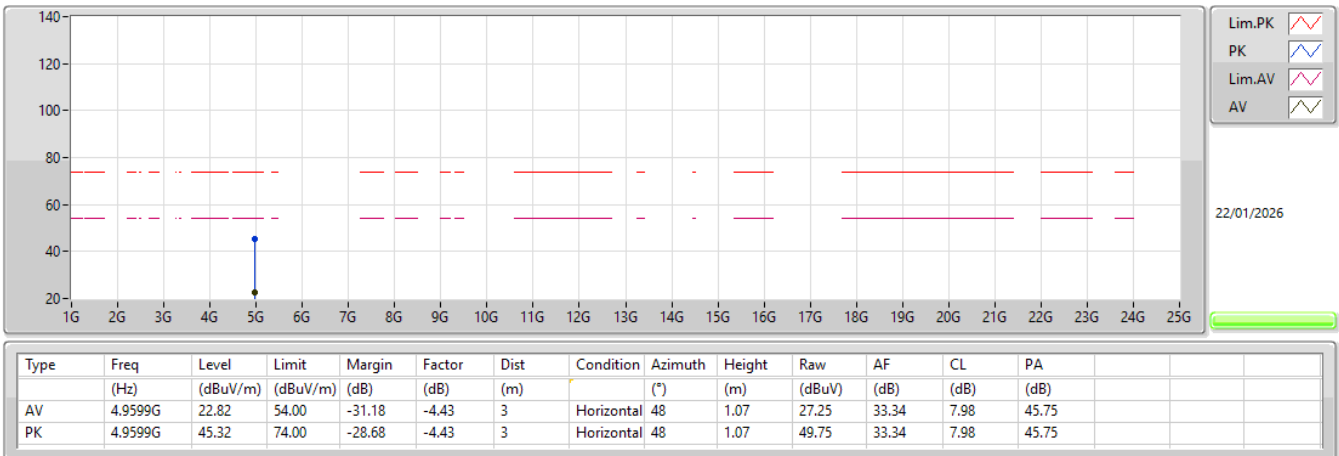
2.4-2.4835GHz_BT-BR(1Mbps)_1TX(Port1)

2480MHz_TX



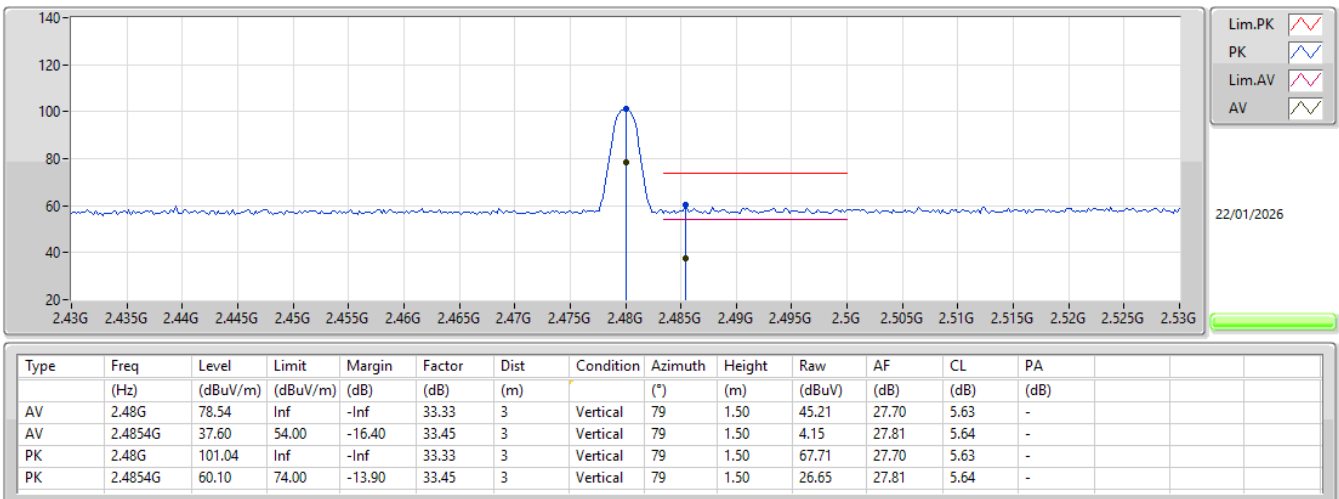
2.4-2.4835GHz_BT-BR(1Mbps)_1TX(Port1)

2480MHz_TX



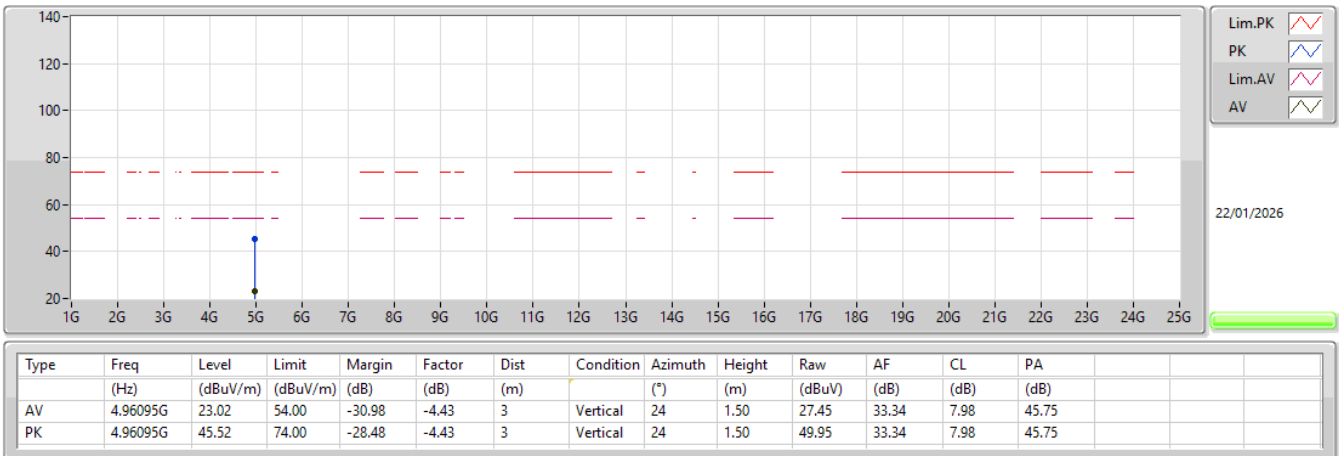
2.4-2.4835GHz_BT-EDR(3Mbps)_1TX(Port1)

2480MHz_TX



2.4-2.4835GHz_BT-EDR(3Mbps)_1TX(Port1)

2480MHz_TX



2.4-2.4835GHz_BT-EDR(3Mbps)_1TX(Port1)

2480MHz_TX

