



FCC LISTED, REGISTRATION
NUMBER: 2764.01

ISED LISTED REGISTRATION
NUMBER: 23595-1

Test report No:
5767ERM.003A1

Test Report

USA FCC Part 15.247, 15.205, 15.207, 15.209;

Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

CANADA RSS-247, RSS-Gen

Digital Transmission Systems, Frequency Hopping Systems and License-Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350MHz, and 5470-5895 MHz bands.

(*) Identification of item tested	Digital IoT Sleep Devices
(*) Trademark	Hatch
(*) Model and /or type reference	HA25
(*) Derived model not tested	-
Other identification of the product	FCC ID: 2AFYZ-HA25 IC: 23920-HA25 HVIN: HA25
(*) Features	BT, BLE, UWB, Wi-Fi 2.4GHz
Manufacturer	Hatch Baby, Inc. 3790 El Camino Real #627 Palo Alto, CA 94306 USA
Test method requested, standard	USA FCC Part 15.247 (11-18-2024): Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz. USA FCC Part 15.205 (11-18-2024): Restricted bands of operation. USA FCC Part 15.209 (11-18-2024) Edition: Radiated emission limits; general requirements. USA FCC Part 15.207 (11-18-2024 Edition): Conducted limits; general requirements CANADA RSS-247 Issue 4 (July 2025). CANADA RSS-Gen Issue 5 (April 2018)/A1 (March 2019)/A2 (Feb 2021). Guidance for Performing Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid Systems Devices Operating Under Section 15.247 of the FCC Rules. 558074 D01 Meas Guidance v05r02 dated April 2, 2019. ANSI C63.10-2020/Cor1-2023+C63.10a-2024+Errata to C63.10a-2024: American National Standard for Testing Unlicensed Wireless Devices
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager 
Date of issue	2026-05-29
Report template No	FDT08_25 (*) "Data provided by the client"

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Index

Competences and guarantees 3

General conditions.....3

Uncertainty 3

Data provided by the client.....4

Usage of samples 4

Test sample description.....5

Identification of the client.....6

Testing period and place 6

Document history.....6

Environmental conditions 7

Remarks and comments.....7

Testing verdicts 8

Summary 8

List of equipment used during the test 9

Appendix A: Test results. BTLE, BTEDR, WLAN..... 10

Competences and guarantees

DEKRA Certification Inc. is a testing laboratory accredited by A2LA (The American Association for Laboratory Accreditation), to perform the tests indicated in the **Certificate 2764.01** and **CAB ID US0215**

DEKRA Certification Inc. is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA Certification Inc. has a calibration and maintenance program for its measurement equipment.

DEKRA Certification Inc. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Certification Inc. at the time of performance of the test.

DEKRA Certification Inc. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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Uncertainty

Uncertainty (factor $k=2$) was calculated according to the DEKRA Certification internal document PODT000.

Frequency (MHz)	U ($k=2$)	Units
30-180	3.82	dB
180-1000	2.61	dB
1000-18000	2.92	dB
18000-40000	2.15	dB

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
2. The sample consists of a Digital IoT Sleep Devices with features including: BT, BLE, UWB, Wi-Fi 2.4GHz.

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples used for the test have been selected by: The client.

The sample(s) is composed of the following elements, accessories and auxiliary equipment:

Id	Control Number	Description	Model	Serial N°	Date Reception	of	Application
S/01	5767/03	Hatch Restore 3.5	HA25	A2SEVT3011	2026-02-26		Element Under Test
S/01	5767/04	Hatch Restore 3.5 Power adapter	LACW030	-	2026-02-26		Accessory
S/01	5530/06	Tag Connect to Ethernet	-	-	2025-12-18		Accessory
S/01	5530/08	Ethernet to PC Connector Box	-	-	2025-12-18		Accessory

Notes referenced to samples during the project:

Id	Note
S/01	Sample S/01, was used for the following test(s): All the tests indicated in appendix A

Test sample description

Test Sample description (compulsory information for EMC and RF testing services)

Ports..... :	Port name and description		Cable				
			Specified max length [m]	Attached during test	Shielded	Coupled to patient ⁽³⁾	
	Power cable			[X]	[]	[]	
				[]	[]	[]	
				[]	[]	[]	
				[]	[]	[]	
				[]	[]	[]	
Supplementary information to the ports..... :		No data provided					
Rated power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	[X]	AC: 100-240Vac; 0.85A; 50/60Hz	[]	[]	[]	[]	[]
	[]	AC:	[]	[]	[]	[]	[]
	[X]	DC: 24Vdc, 1.5A					
[]	DC:						
Rated Power	36W						
Clock frequencies..... :	No data provided						
Other parameters	No data provided						
Software version	TBD						
Hardware version	TBD						
Dimensions in cm (W x H x D)	No data provided						
Mounting position	[X]	Table top equipment					
	[]	Wall/Ceiling mounted equipment					
	[]	Floor standing equipment					
	[]	Hand-held equipment					
	[]	Other:					
Modules/parts..... :	Module/parts of test item		Type		Manufacturer		
	Power Adapter - LACW030				ASAPTech. Co. Ltda		
							
							
							
Accessories (not part of the test item)	Description		Type		Manufacturer		
	ASAPTech. Co. Ltda						
							
							
							
							
Documents as provided by the applicant..... :	Description		File name		Issue date		
	Declaration Equipment Data		FDT30_19		03-20-2026		
							

⁽³⁾ Only for Medical Equipment

Identification of the client

Hatch Baby, Inc.
3790 El Camino Real #627
Palo Alto, CA 94306
USA

Testing period and place

Test Location	DEKRA Certification Inc. 405 Glenn Dr. Suite 12, Sterling, VA 20164 United States of America.
Date (start)	2026-03-06
Date (finish)	2026-04-28

Document history

Report number	Date	Description
5767ERM.003	2026-05-12	First release
5767ERM.003A1	2026-05-29	Second release. Watermark was removed. This modified test report cancels and replaces the test report 5767ERM.003.

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860mbar Max. = 1060mbar

In the semianechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860mbar Max. = 1060mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Remarks and comments

The tests have been performed by the technical personnel: Yuqi Wang, Prudhvi Kothapalli, and Yuri Barone.

Testing verdicts

Fail	F
Inconclusive	I
Not applicable	N/A
Not measured	N/M
Pass	P
Partial Passed	P*

Summary

Requirement – Test case	FCC PART 15 PARAGRAPH / RSS-247	Verdict	Remark
RSS-Gen / FCC 15.207 - Continuous conducted emission on Power leads		P	Refer 1
RSS-Gen / RSS-247 - [99dBW] Transmitter 99% Occupied Bandwidth		P	--
RSS-247 / FCC 15.247 - [20dBW] 20 dB Bandwidth		P	--
RSS-247 / FCC 15.247 - [CFS] Carrier Frequency Separation		P	--
RSS-247 / FCC 15.247 - [DwT] Time of Occupancy (Dwell Time)		P	--
RSS-247 / FCC 15.247 - [NHC] Number of hopping channels		P	--
RSS-247 / FCC 15.247 - [6dBw] 6 dB Bandwidth		P	Refer 3
RSS-247 / FCC 15.247 - [Avcp] Maximum Average Conducted Output Power		N/M	Refer 4
RSS-247 / FCC 15.247 - [Pkcp] Maximum Peak Conducted Output Power		P	Refer 2
RSS-247 / FCC 15.247 - [Bndedge] Band-edge emissions compliance (Transmitter)		P	--
RSS-247 / FCC 15.247 - [RSE] Emission limitations radiated (Transmitter)		P	--
RSS-247 / FCC 15.247 - [Psd] Power spectral density		P	Refer 3

Supplementary information and remarks:

1. According with the requirements of FCC Rules and Regulations, title 47, Chapter I, Subchapter A, Part 15, Subpart C, §15.207 Conducted limits, (c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.
2. Test case applicable to BTEDR
3. Test case applicable to BTLE and WLAN
4. All power measurements reported herein were performed using peak detector, in accordance with applicable FCC measurement procedures.

List of equipment used during the test

Test Equipment for RSS-247 / FCC 15.247

Control Num	Equipment	Manufacturer	Serial	Model	Next calibration
01014	FSV40 SIGNAL ANALYZER 40GHZ	RHODE & SCHWARZ	101626	FSV40	2026-10-04
01481	SEMI-ANECHOIC CHAMBER	FRANKONIA	-	SAC-3 Square L	---
01010	ESR7 EMI TEST RECEIVER	RHODE & SCHWARZ	101790	ESR7	2027-04-11
01073	PULSE LIMITER	NARDA	-	PMM PL01	2027-02-21
01082	LINE IMPEDANCE STABILIZATION NETWORK	NARDA	-	PMM L3-32	2027-02-20
01108	ETHERNET SNMP THERMOMETER	HW GROUP	60038026954	HWg-STE Plain	2026-10-18
01213	CONTROL ROOM	FRANKONIA	F169021-1	CR	---
01216	TEST TABLE (RED COLOR) – MR	--	--	--	--
01473	ETHERNET SNMP THERMOMETER	HW GROUP	60038038777	HWg-STE Plain	2026-10-24
01111	ETHERNET SNMP THERMOMETER	HW GROUP	60038026577	HWg-STE Plain	2026-10-24
01564	CONTROL ROOM 2	FRANKONIA	F219025-1	CR	---
01567	FRANKONIA TRANSPARENT RF SQUARE TEST TABLE	FRANKONIA	RFSqtab02	RF Sq table	---
01179	SEMI-ANECHOIC CHAMBER	FRANKONIA	F169021	SAC 3plus 'L'	---
01057	3115 DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA (750 MHz-18 GHz)	ETS LINDGREN	00211373	3115	2026-07-18
01566	FRANKONIA TRANSPARENT RF SQUARE TEST TABLE	FRANKONIA	RFSqtab01	RF Sq table	---
01065	3142E BICONILOG ANTENNA	ETS LINDGREN	00208587	3142E	2028-02-03
01056	3116C DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA (18-40GHz)	ETS LINDGREN	00213179	3116C	2027-02-23
00981	LOW NOISE PREAMPLIFIER (1-18GHz)	BONN ELEKTRONIK	1711156B	BLMA0118-2A	2027-02-21
01472	ETHERNET SNMP THERMOMETER	HW GROUP	60038038794	HWg-STE Plain	2026-10-24
01314	WIRELESS MEASUREMENT SOFTWARE R&S EMC32	RHODE & SCHWARZ	1040-OT102236	---	---

Appendix A: Test results. BTLE, BTEDR, WLAN

Appendix A Content

PRODUCT INFORMATION.....	12
DESCRIPTION OF TEST CONDITIONS	13
RSS-Gen 8.8 / FCC 15.207 - Continuous conducted emission on Power leads	16
99dBw Occupied Channel Bandwidth 99%.....	22
RSS-247 6.2.3.1 (a) / FCC 15.247 (a) (1) [20dBW] 20 dB Bandwidth	57
RSS-247 6.2.3.1 (a) / FCC 15.247 (a) (1) [CFS] Carrier Frequency Separation	87
RSS-247 / FCC 15.247 - [DwT] Time of Occupancy (Dwell Time)	93
RSS-247 6.2.3.1 (b) / FCC 15.247 (a) (1) (iii) [NHC] Number of hopping channels	100
RSS-247 6.3.1 (a) / FCC 15.247 (a) (2) [6dBw] 6 dB Bandwidth.....	106
RSS-247 6.3.2 / FCC 15.247 (b) [Pkcp] Maximum Peak Conducted Output Power	123
RSS-247 6.6 / FCC 15.247 (d) [Bndedge] Band-edge emissions compliance (Transmitter).....	138
RSS-247 / FCC 15.247 - [RSE] Emission limitations radiated (Transmitter)	192
RSS-247 6.3.1. (b) / FCC 15.247 (e) [PSD] Power Spectral Density.....	262

PRODUCT INFORMATION

The following information is provided by the client

Information	Description
Modulation	BTLE: GFSK BTEDR: GFSK, PI-4DPQSK, 8DPSK WLAN: CCK, DSSS, OFDM
Operating Frequency Range	BTLE: 2400 - 2483.5 MHz BTEDR: 2400 - 2483.5 MHz WLAN: 2400 – 2483.5 MHz
Nominal Channel Bandwidth	BTLE: 1 MHz, BTEDR: 1MHz WLAN: 20 MHz
RF Output Power	Class 1, 2 and 3 transmit output powers, and a dynamic control range of up to 21 dB
Antenna type	Embedded
Antenna gain	BT, WLAN – 3.76 dBi
Nominal Voltage	
- Supply Voltage	100-240 VAC
- Type of power source	AC voltage
Equipment type	Bluetooth LE Bluetooth Classic (BR & EDR) WLAN according to IEEE 802.11 b/g/n

DESCRIPTION OF TEST CONDITIONS

During transmitter test the EUT was being controlled by the SW tool to operate in a continuous transmit mode on the test channel as required and in each of the different modulation modes.

BLUETOOTH LOW ENERGY

Test Conditions	Description
TC/01 (1 Mbps)	<u>Power supply (V):</u> $V_{\text{nominal}} = 120 \text{ VAC}$ Data Rate: 1 Mbps Bandwidth: 1 MHz <u>Test Frequencies for conducted/Radiated tests:</u> Lowest range: 2402 MHz Middle channel: 2440 MHz Highest range: 2480 MHz

BLUETOOTH BR/EDR

Test Conditions	Description
TC/01	<u>Power supply (V):</u> Vnominal = 120 VAC <u>Modulation:</u> GFSK <u>Test Frequencies for conducted/Radiated tests:</u> Lowest range: 2402 MHz Middle channel: 2441 MHz Highest range: 2480 MHz
TC/02	<u>Power supply (V):</u> Vnominal = 120 VAC <u>Modulation:</u> PI/4-DQPSK <u>Test Frequencies for Conducted/Radiated tests:</u> Lowest range: 2402 MHz Middle channel: 2441 MHz Highest range: 2480 MHz
TC/03	<u>Power supply (V):</u> Vnominal = 120 VAC <u>Modulation:</u> 8-DPSK <u>Test Frequencies for Conducted/Radiated tests:</u> Lowest range: 2402 MHz Middle channel: 2441 MHz Highest range: 2480 MHz

The data rates of 1-DH5 for GFSK, 2-DH5 for pi/4DQPSK, 3-DH5 for 8DPSK were selected based on the preliminary testing that identified those rates corresponding to the worst cases

WLAN 802.11

Test Conditions	Description
TC/01 ⁽¹⁾ (b mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 120 \text{ VAC}$ <u>Channel Bandwidth:</u> 20 MHz <u>Test Frequencies for Conducted/Radiated tests:</u> SISOA Lowest channel: 2412 MHz Middle channel: 2437 MHz Highest channel: 2462 MHz
TC/02 ⁽¹⁾ (g mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 120 \text{ VAC}$ <u>Channel Bandwidth:</u> 20 MHz <u>Test Frequencies for Conducted/Radiated tests:</u> SISOA Lowest channel: 2412 MHz Middle channel: 2437 MHz Highest channel: 2462 MHz
TC/03 ⁽¹⁾ (n mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 120 \text{ VAC}$ <u>Channel Bandwidth:</u> 20 MHz <u>Test Frequencies for Conducted tests:</u> SISOA Lowest channel: 2412 MHz Middle channel: 2437 MHz Highest channel: 2462 MHz

Note (1): For spurious emissions OFDM/OFDMA modes a preliminary scan was performed to determine the worst case. The following tables and plots show the results for the worst case in DSSS modulation (802.11b) and OFDM modulation (802.11n20).

RSS-Gen 8.8 / FCC 15.207 - Continuous conducted emission on Power leads

Limits:

- FCC Rules and Regulations 47 CFR Part 15, Subpart C, Secs. 15.207:**

(a) for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

Frequency range (MHz)	Limit (dB μ V)	
	Quasi-Peak	Average
0,15 to 0,5	66 – 56 ⁽¹⁾	56 – 46 ⁽¹⁾
0,5 to 5	56	46
5 to 30	60	50

(1) The limit decreases with the logarithm of the frequency

- RSS-Gen Issue 5, Secs 8.8:**

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 μ H / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT.

Frequency range (MHz)	Limit (dB μ V) ⁽¹⁾	
	Quasi-Peak	Average
0,15 to 0,5	66 – 56 ⁽¹⁾	56 – 46 ⁽¹⁾
0,5 to 5	56	46
5 to 30	60	50

(1) At the transition frequency, the lower limit applies

(2) The limit decreases with the logarithm of the frequency

Code: CEmmnnHH

- a) CE: Conducted Emission,
- b) mm: Sample number,
- c) nn: Operation mode,
- d) HH: Wire

(L1: Phase1, 0N: Neutral)

Id	Description
OM/01	DUT ON. Power supply 120VAC. Bluetooth in TX/RX.
OM/02	DUT ON. Power supply 120VAC. Wi-Fi 2.4 GHz in TX/RX.

Results

S/	OM	Code	Line	Freq Rng (MHz)	V
01	OM/01	CE01010N	N	[0.15, 30]	P
01	OM/01	CE0101L1	L1	[0.15, 30]	P
01	OM/02	CE01020N	N	[0.15, 30]	P
01	OM/02	CE0102L1	L1	[0.15, 30]	P

Verdict

Pass

Attachments

EMC Test Code = CE01010N

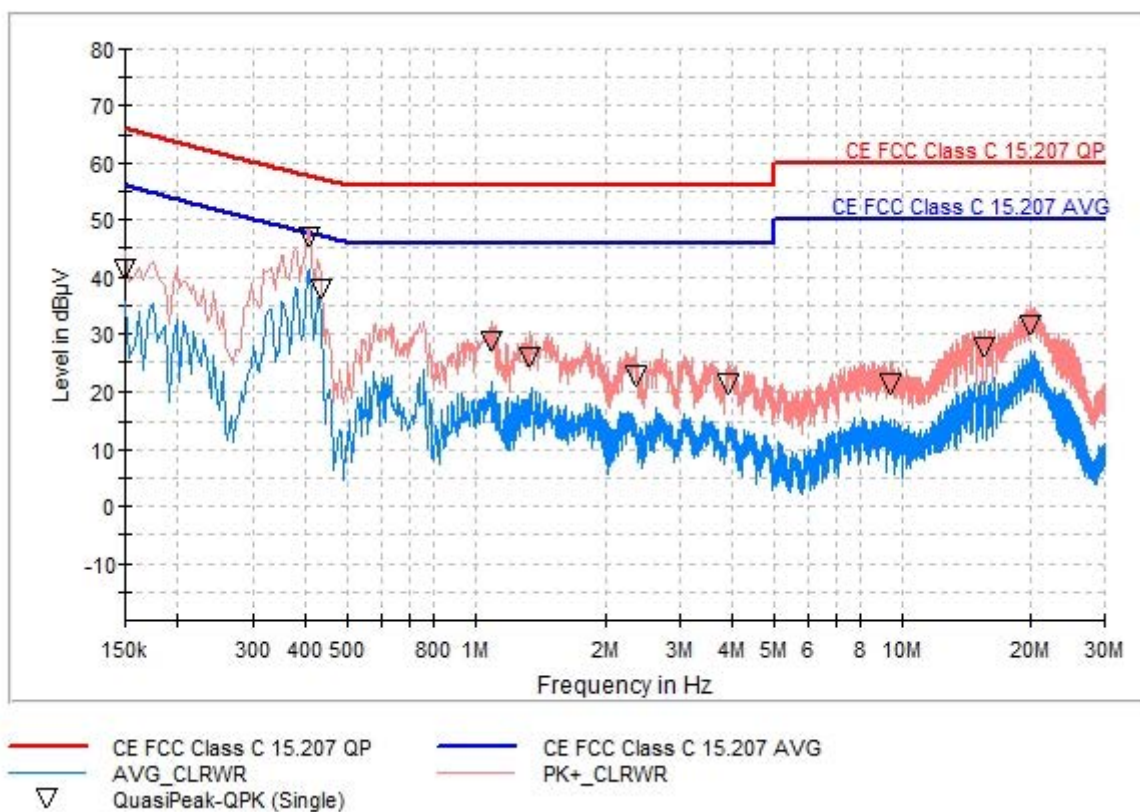
Conducted Emissions - Tested Line = N

Frequency Range MHz = [0.15, 30]

Sample ID: S/01

Operation Mode: OM/01.

Images:



Tables:

Frequency (MHz)	QuasiPeak (dBµV)	Line	Margin - QPK (dB)	Limit - QPK (dBµV)
0.150000	41.2	N	24.8	66.0
0.406000	46.9	N	10.7	57.6
0.434000	37.9	N	19.2	57.1
1.090000	28.5	N	27.5	56.0
1.346000	25.6	N	30.4	56.0
2.358000	22.6	N	33.4	56.0
3.910000	21.2	N	34.8	56.0
9.390000	21.2	N	38.8	60.0
15.634000	27.5	N	32.5	60.0
20.154000	31.5	N	28.5	60.0

Attachments

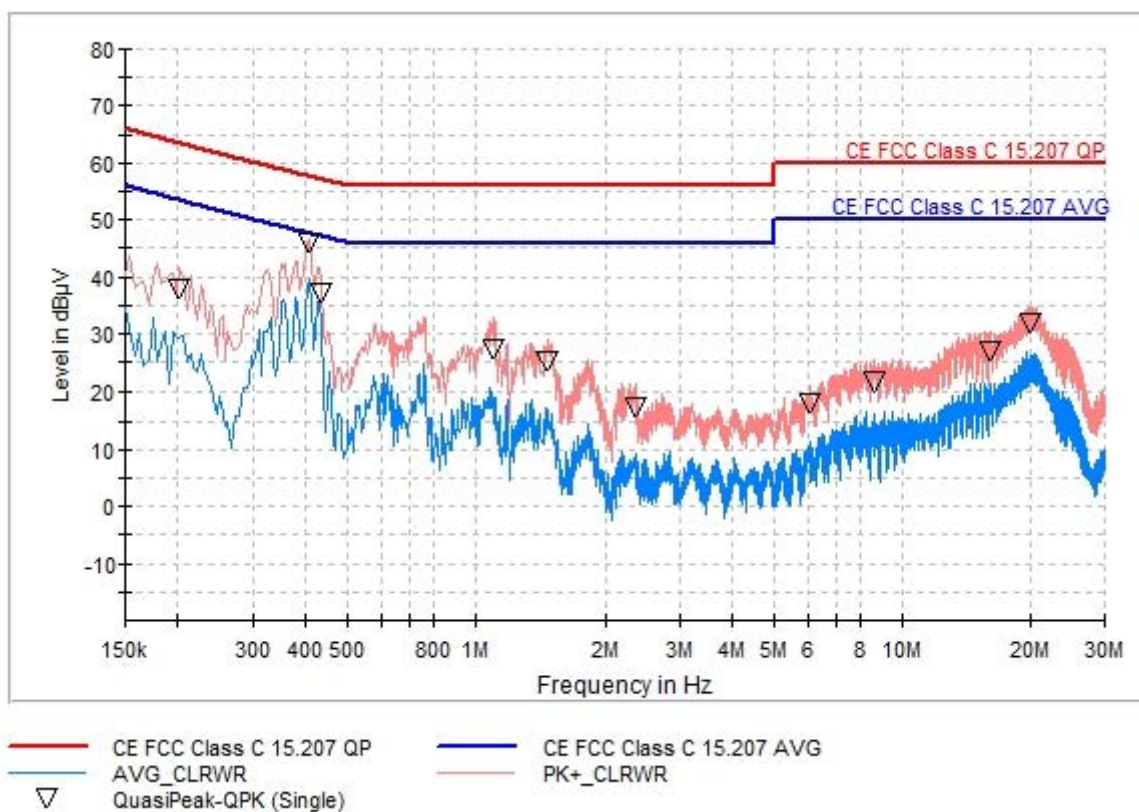
EMC Test Code = CE01010L1 Conducted Emissions - Tested Line = L1

Frequency Range MHz = [0.15, 30]

Sample ID: S/01

Operation Mode: OM/01.

Images:



Tables:

Frequency (MHz)	QuasiPeak (dBµV)	Line	Margin - QPK (dB)	Limit - QPK (dBµV)
0.202000	37.8	L1	25.6	63.4
0.406000	45.7	L1	11.9	57.6
0.434000	37.2	L1	19.9	57.1
1.106000	27.4	L1	28.7	56.0
1.466000	25.0	L1	31.0	56.0
2.354000	17.3	L1	38.7	56.0
6.090000	18.1	L1	41.9	60.0
8.638000	21.7	L1	38.3	60.0
16.126000	26.9	L1	33.1	60.0
20.170000	31.9	L1	28.1	60.0

Attachments

EMC Test Code = CE01020N

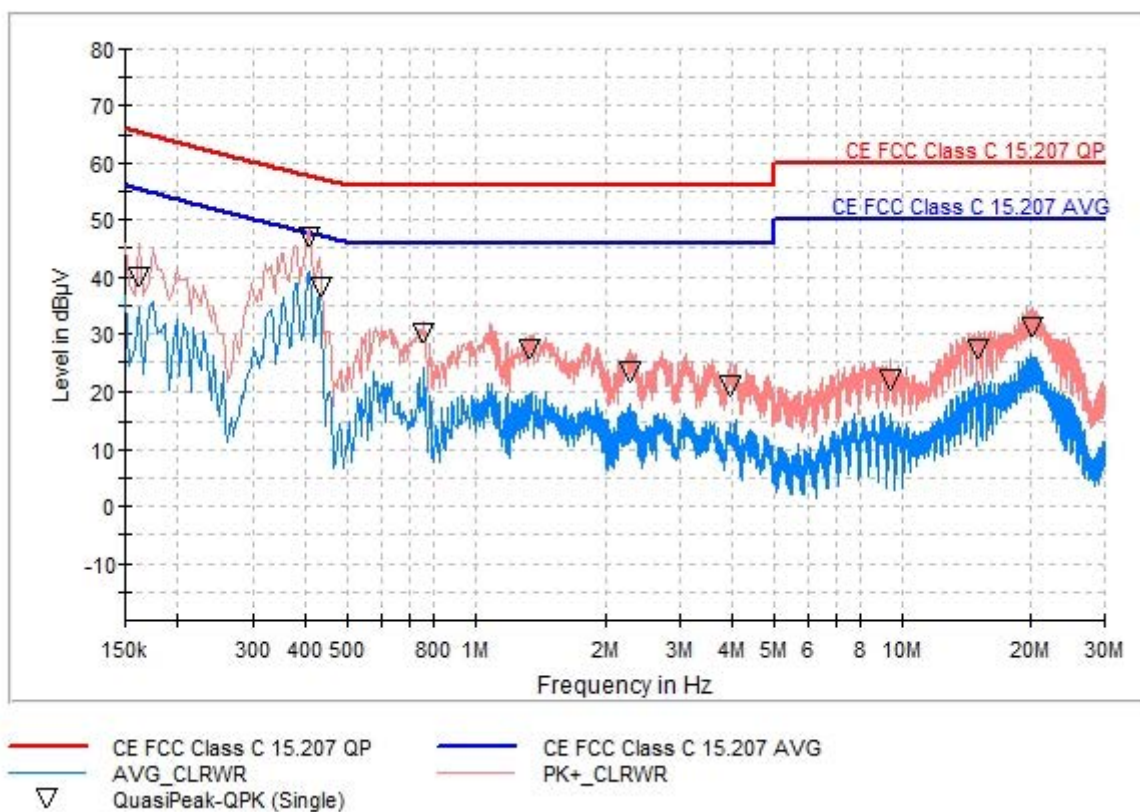
Conducted Emissions - Tested Line = N

Frequency Range MHz = [0.15, 30]

Sample ID: S/01

Operation Mode: OM/02.

Images:



Tables:

Frequency (MHz)	QuasiPeak (dBμV)	Line	Margin - QPK (dB)	Limit - QPK (dBμV)
0.162000	39.8	N	25.5	65.3
0.406000	47.0	N	10.6	57.6
0.434000	38.1	N	19.0	57.1
0.758000	30.0	N	26.0	56.0
1.342000	27.0	N	29.0	56.0
2.282000	23.5	N	32.6	56.0
3.954000	20.8	N	35.2	56.0
9.394000	21.8	N	38.2	60.0
15.218000	27.1	N	33.0	60.0
20.206000	31.0	N	29.0	60.0

Attachments

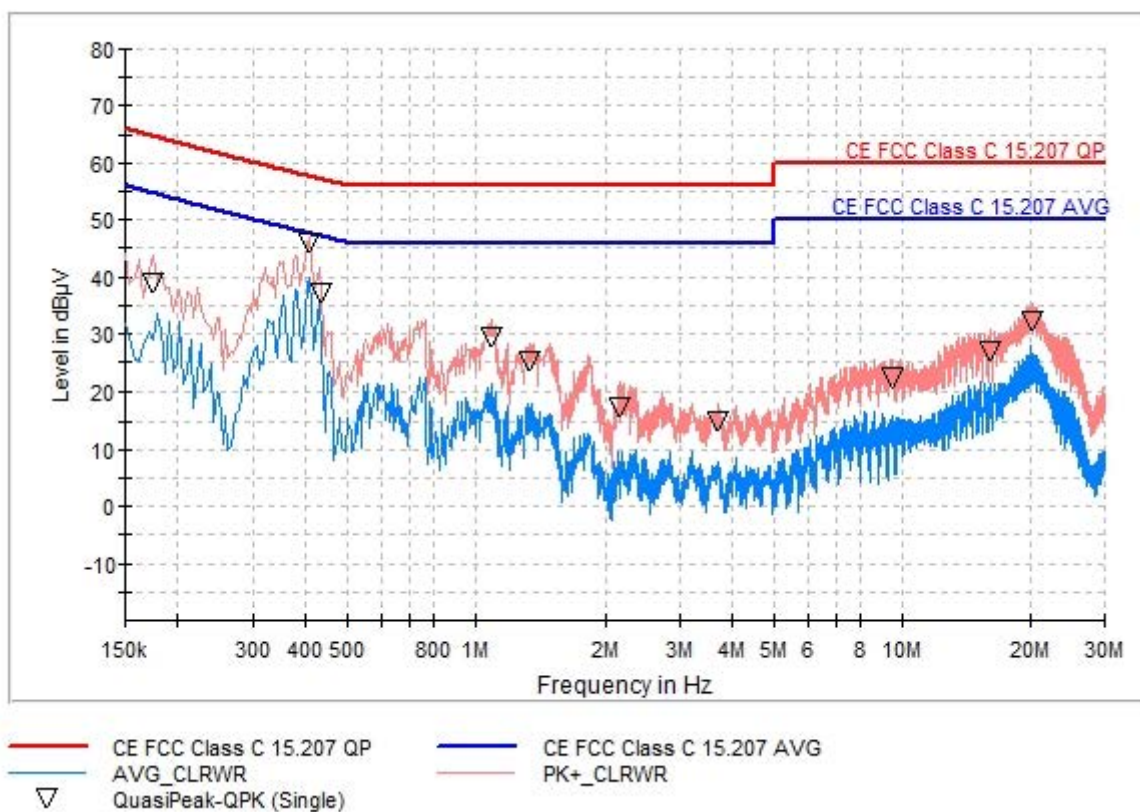
EMC Test Code = CE01020L1 Conducted Emissions - Tested Line = L1

Frequency Range MHz = [0.15, 30]

Sample ID: S/01

Operation Mode: OM/02.

Images:



Tables:

Frequency (MHz)	QuasiPeak (dBµV)	Line	Margin - QPK (dB)	Limit - QPK (dBµV)
0.174000	39.0	L1	25.7	64.7
0.406000	45.7	L1	11.9	57.6
0.434000	37.1	L1	20.0	57.1
1.090000	29.3	L1	26.7	56.0
1.338000	25.1	L1	30.9	56.0
2.174000	17.3	L1	38.7	56.0
3.702000	14.9	L1	41.1	56.0
9.450000	22.1	L1	37.9	60.0
16.086000	27.0	L1	33.0	60.0
20.202000	32.1	L1	27.9	60.0

99dBw Occupied Channel Bandwidth 99%

Limits

CANADA RSS-247 Issue 4 (July 2025):

2.4 RSS-Gen compliance

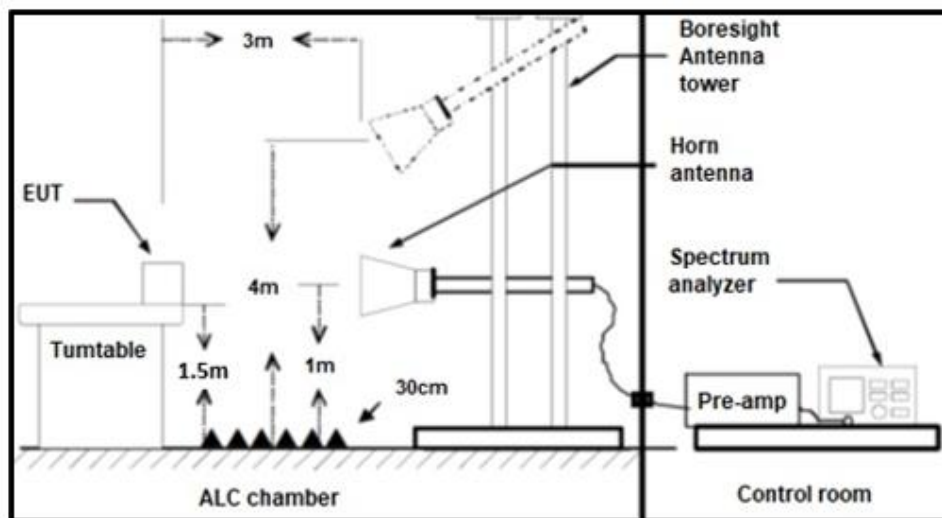
Equipment being certified under this standard shall also comply with the general requirements set out in Radio Standards Specification RSS-Gen, General Requirements for Compliance of Radio Apparatus. Where contradictions exist between this standard and RSS-Gen, this standard shall take precedence.

CANADA RSS-Gen Issue 5 (April 2018)/A1 (March 2019)/A2 (Feb 2021):

6.7 Occupied bandwidth (or 99% emission bandwidth) and x dB bandwidth

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs

TEST SETUP:



Modulation: BT (GFSK 1-DH5)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Occ Ch BW (MHz)
[2400, 2483.5]	Frequency Hopping Spread Spectrum systems (DSS)	2402.00000	1	0.905
		2441.00000		0.890
		2480.00000		0.935

Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)

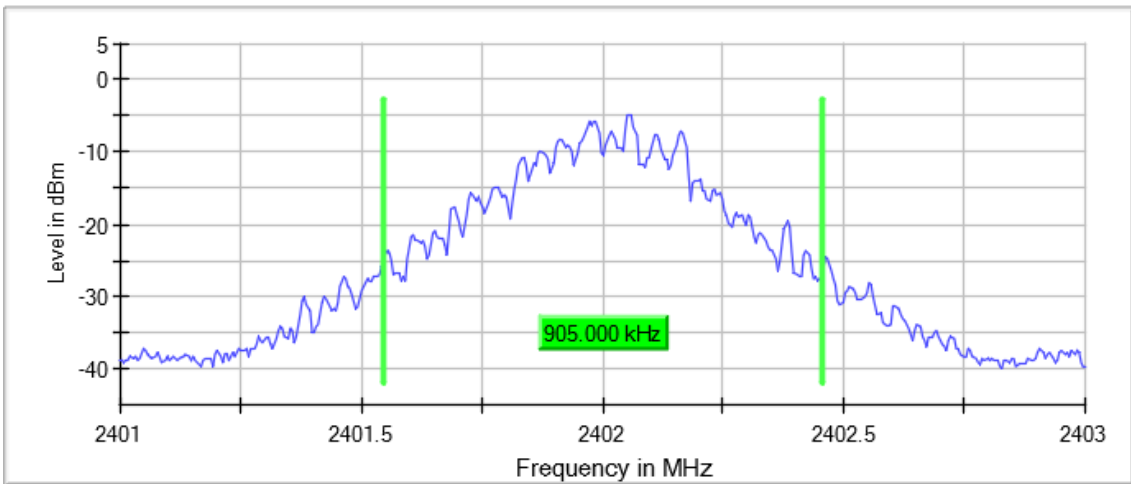
Frequency MHz = 2402.00000

Active Port = 1

Modulation = BT (GFSK 1-DH5)

Images:

99 % Bandwidth



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.13 dB	0.30 dB

Operation Band MHz = [2400,
2483.5]

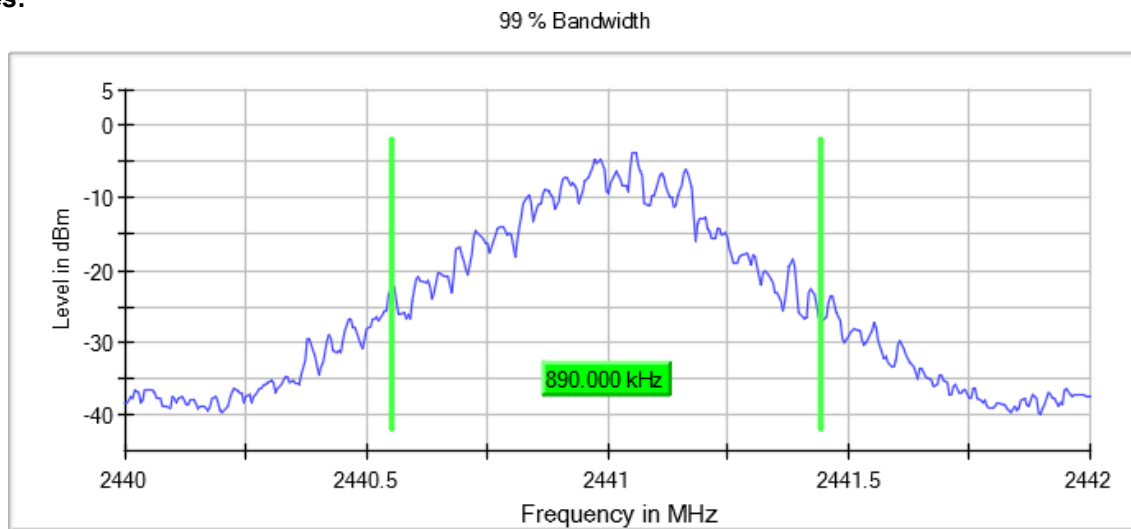
Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

Frequency MHz = 2441.00000

Active Port = 1

Modulation = BT (GFSK 1-DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.13 dB	0.30 dB

Operation Band MHz = [2400,
2483.5]

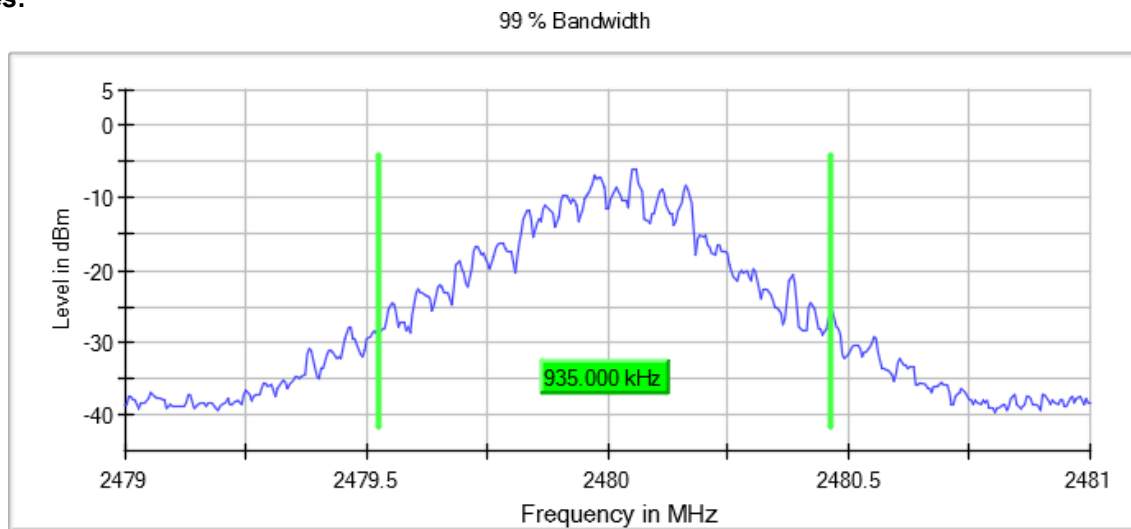
Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

Frequency MHz = 2480.00000

Active Port = 1

Modulation = BT (GFSK 1-DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.13 dB	0.30 dB

Modulation: BT (Pi/4 DQPSK 2-DH5)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Occ Ch BW (MHz)
[2400, 2483.5]	Frequency Hopping Spread Spectrum systems (DSS)	2402.00000	1	1.195
		2441.00000		1.195
		2480.00000		1.215

Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)

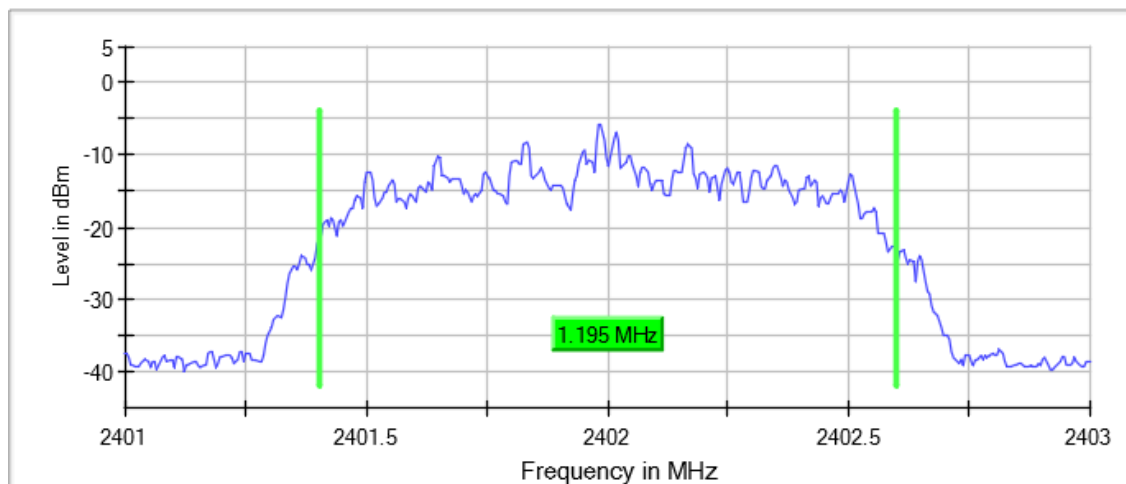
Frequency MHz = 2402.00000

Active Port = 1

Modulation = BT (Pi/4 DQPSK 2-DH5)

Images:

99 % Bandwidth



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.05 dB	0.30 dB

Operation Band MHz = [2400,
2483.5]

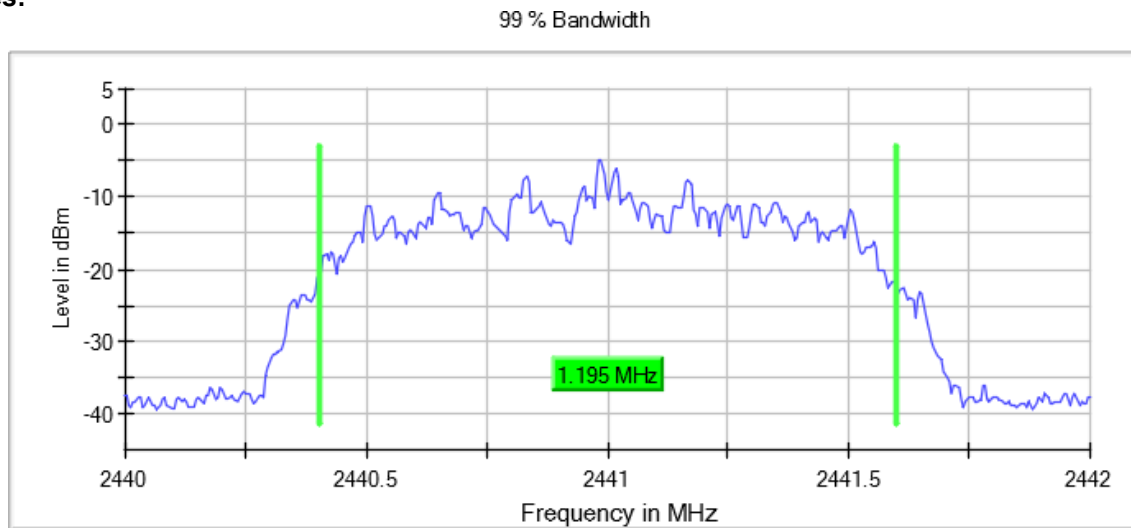
Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

Frequency MHz = 2441.00000

Active Port = 1

Modulation = BT (Pi/4 DQPSK 2-
DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.05 dB	0.30 dB

Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

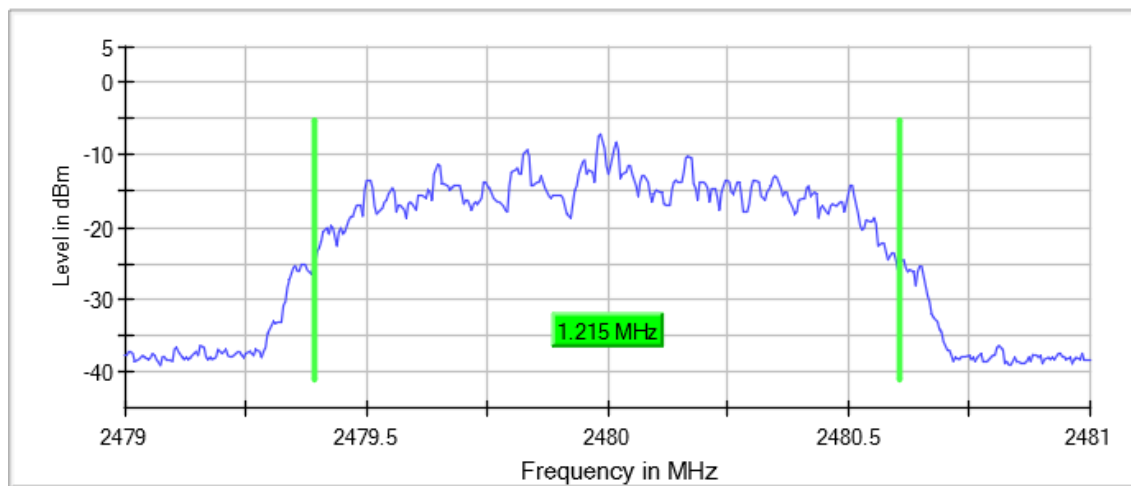
Frequency MHz = 2480.00000

Active Port = 1

Modulation = BT (Pi/4 DQPSK 2-
DH5)

Images:

99 % Bandwidth



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.05 dB	0.30 dB

Modulation: BT (8DPSK 3-DH5)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Occ Ch BW (MHz)
[2400, 2483.5]	Frequency Hopping Spread Spectrum systems (DSS)	2402.00000	1	1.200
		2441.00000		1.200
		2480.00000		1.215

Verdict

Pass

Attachments

Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

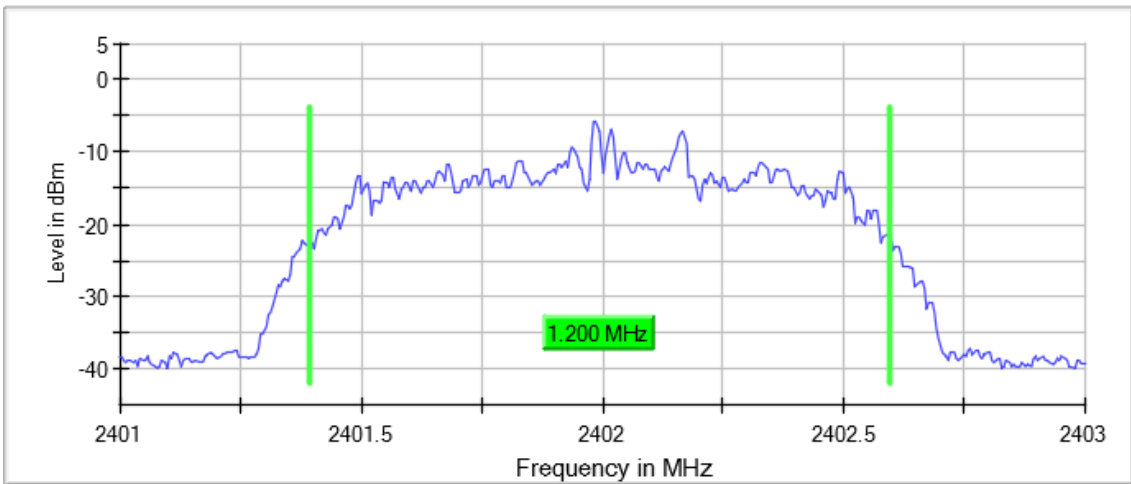
Frequency MHz = 2402.00000

Active Port = 1

Modulation = BT (8DPSK 3-DH5)

Images:

99 % Bandwidth



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.20 dB	0.30 dB

Operation Band MHz = [2400,
2483.5]

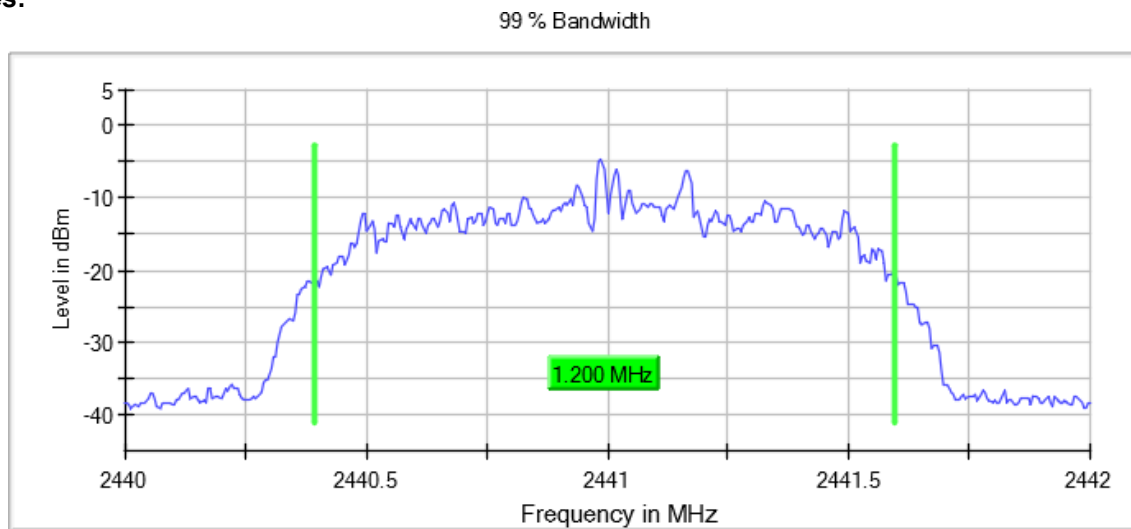
Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

Frequency MHz = 2441.00000

Active Port = 1

Modulation = BT (8DPSK 3-DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.20 dB	0.30 dB

Operation Band MHz = [2400,
2483.5]

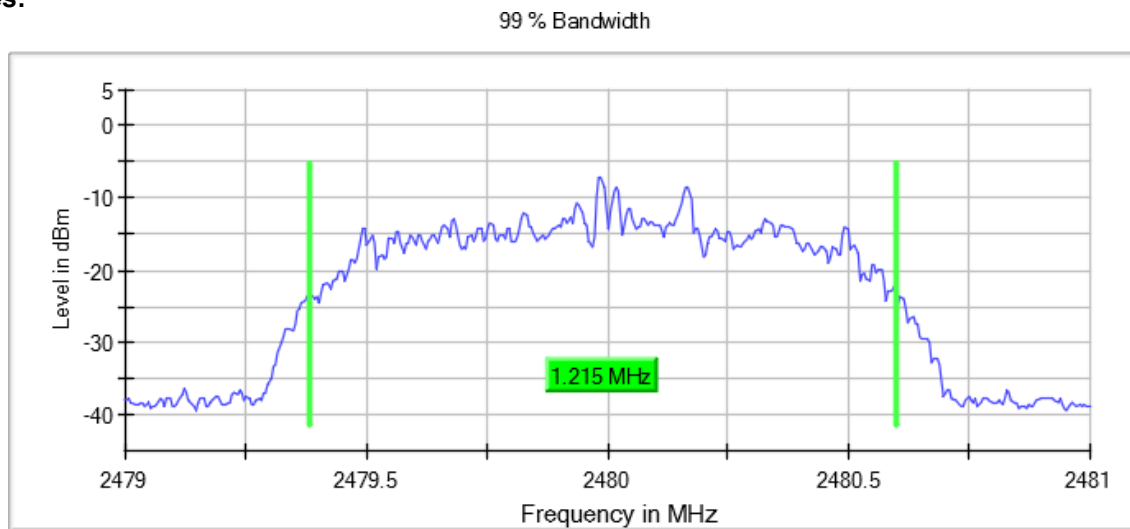
Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

Frequency MHz = 2480.00000

Active Port = 1

Modulation = BT (8DPSK 3-DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.20 dB	0.30 dB

Modulation: BTLE 5.0 (GFSK 1 Mbit/s)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Occ Ch BW (MHz)
[2400, 2483.5]	Digital Transmission System (DTS)	2402.00000	1	1.060
		2440.00000		1.055
		2480.00000		1.075

Verdict

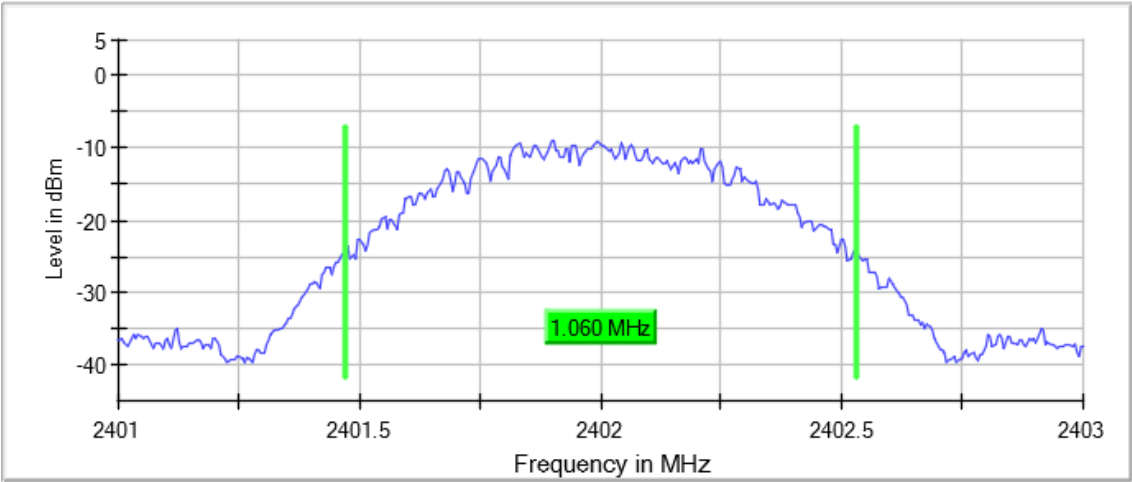
Pass

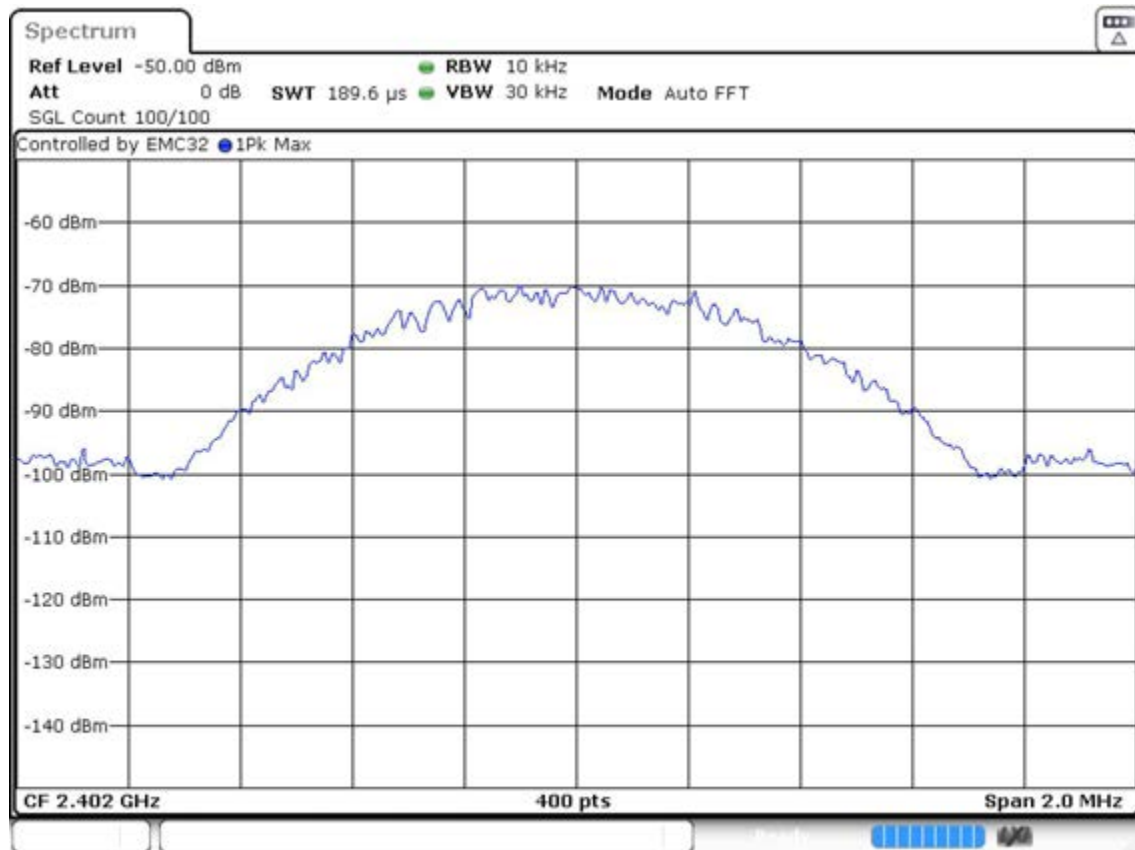
Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2402.00000 Active Port = 1
Modulation = BTLE 5.0 (GFSK 1 Mbit/s)

Images:

99 % Bandwidth



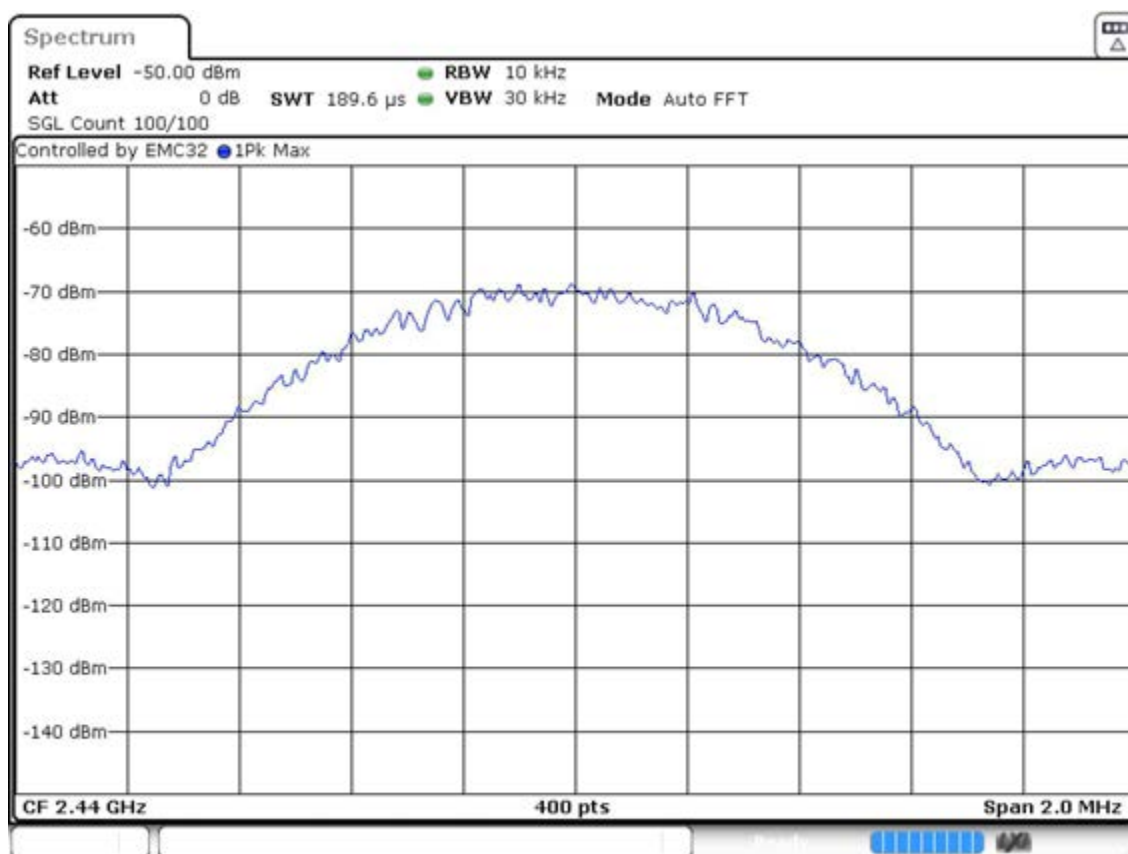
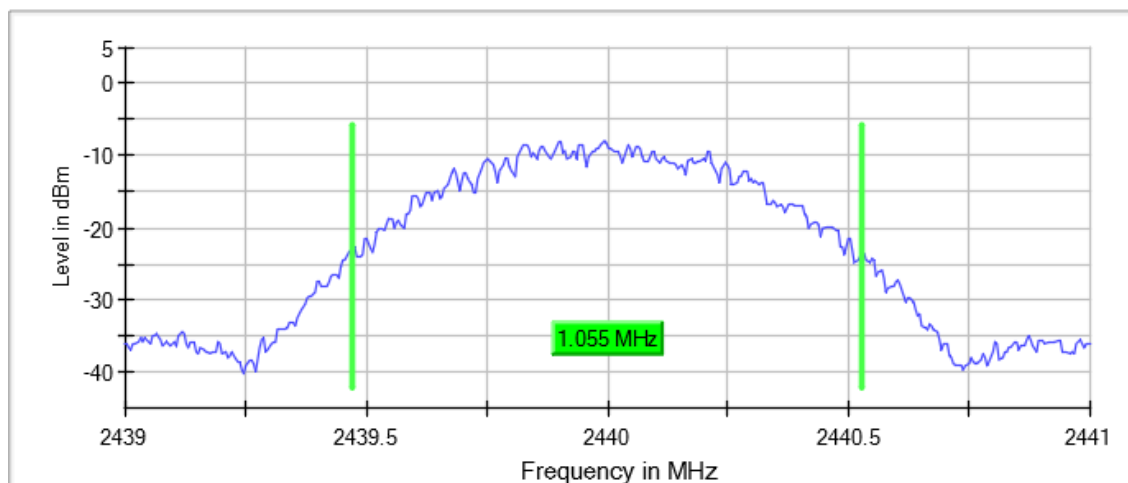


Date: 27 APR 2026 10:58:57

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2440.00000 Active Port = 1
Modulation = BTLE 5.0 (GFSK 1 Mbit/s)

Images:

99 % Bandwidth

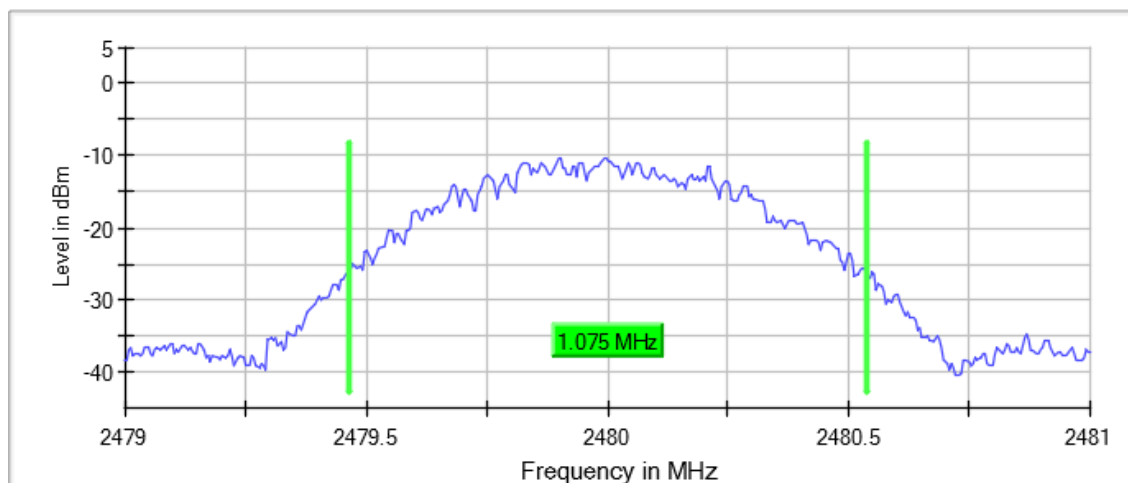


Date: 27 APR 2026 11:10:56

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2480.00000 Active Port = 1
Modulation = BTLE 5.0 (GFSK 1 Mbit/s)

Images:

99 % Bandwidth



Date: 27 APR 2026 11:20:16

Modulation: 802.11b (DSSS 1 Mbit/s)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Occ Ch BW (MHz)
[2400, 2483.5]	Digital Transmission System (DTS)	2412.00000	1	14.200
		2437.00000		14.300
		2462.00000		14.600

Verdict

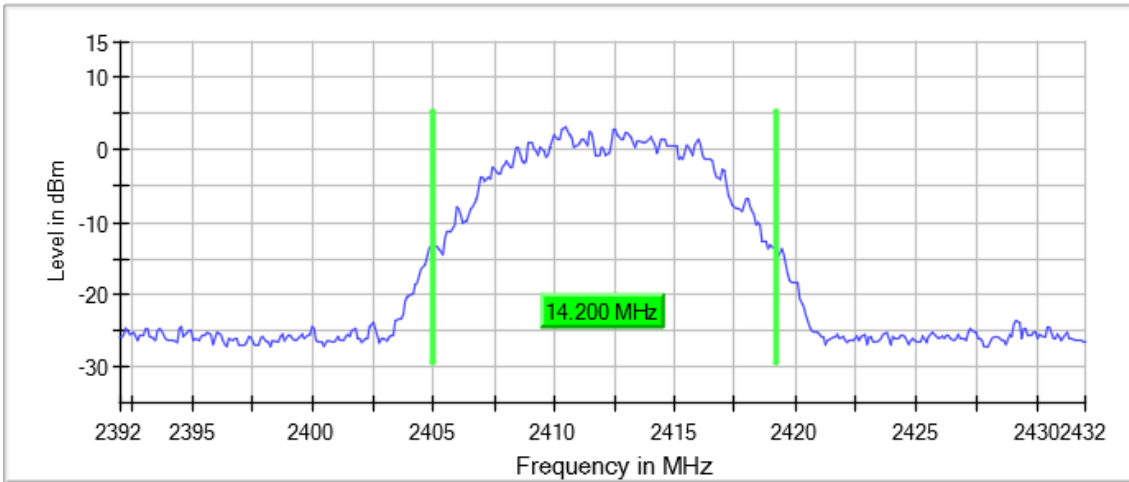
Pass

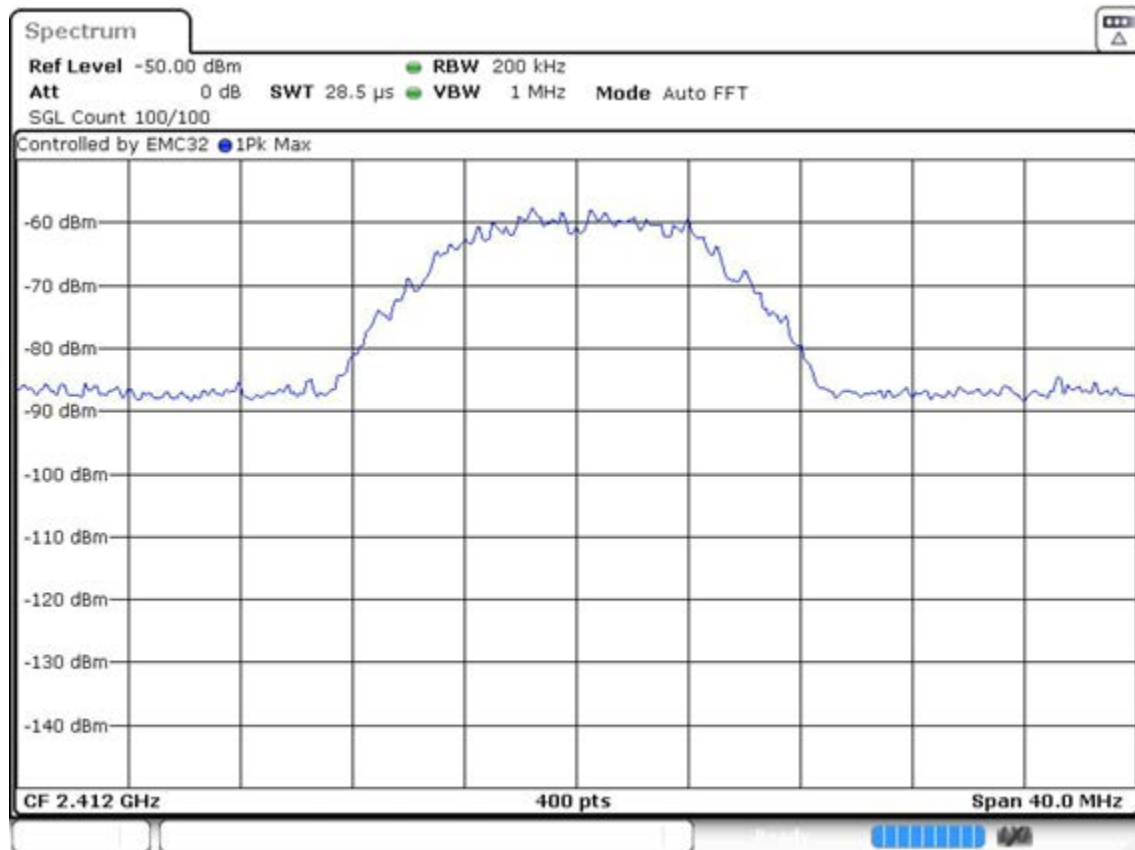
Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2412.00000 Active Port = 1
Modulation = 802.11b (DSSS 1 Mbit/s)

Images:

99 % Bandwidth





Date: 24.APR.2026 19:15:23

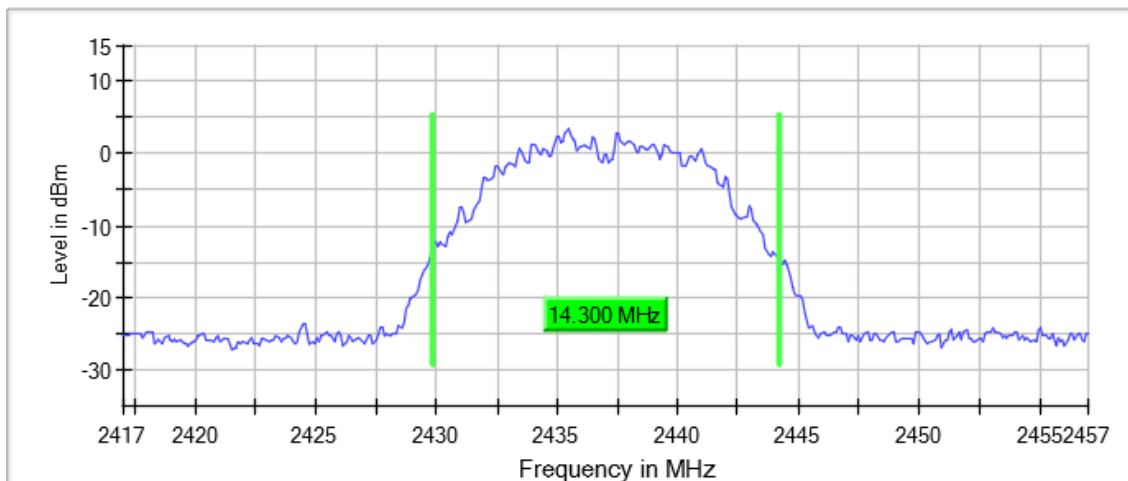
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2437.00000 Active Port = 1

Modulation = 802.11b (DSSS 1 Mbit/s)

Images:

99 % Bandwidth



Date: 24 APR 2026 19:23:19

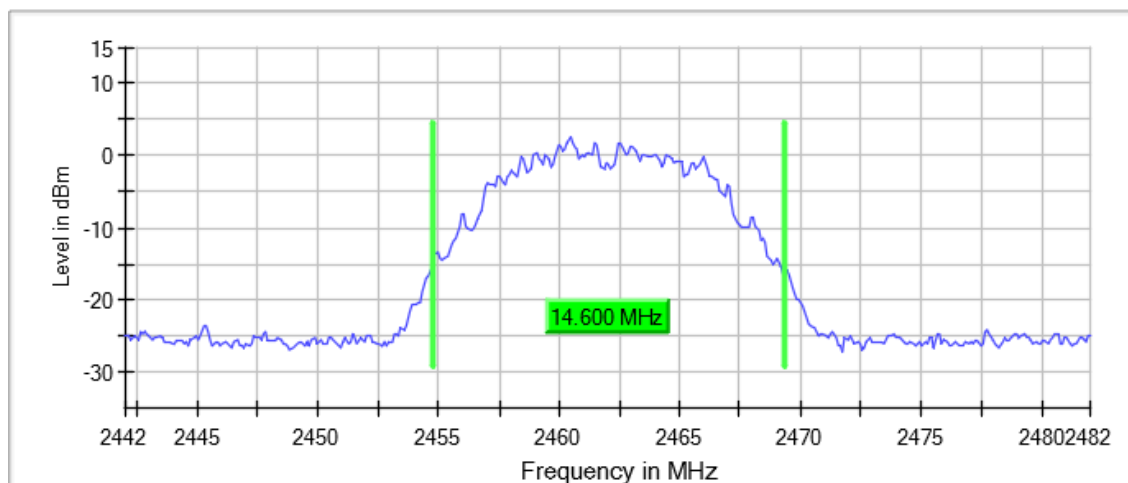
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2462.00000 Active Port = 1

Modulation = 802.11b (DSSS 1 Mbit/s)

Images:

99 % Bandwidth



Date: 24 APR 2026 19:30:35

Modulation: 802.11g (OFDM 6 Mbit/s)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Occ Ch BW (MHz)
[2400, 2483.5]	Digital Transmission System (DTS)	2412.00000	1	17.300
		2437.00000		17.900
		2462.00000		17.000

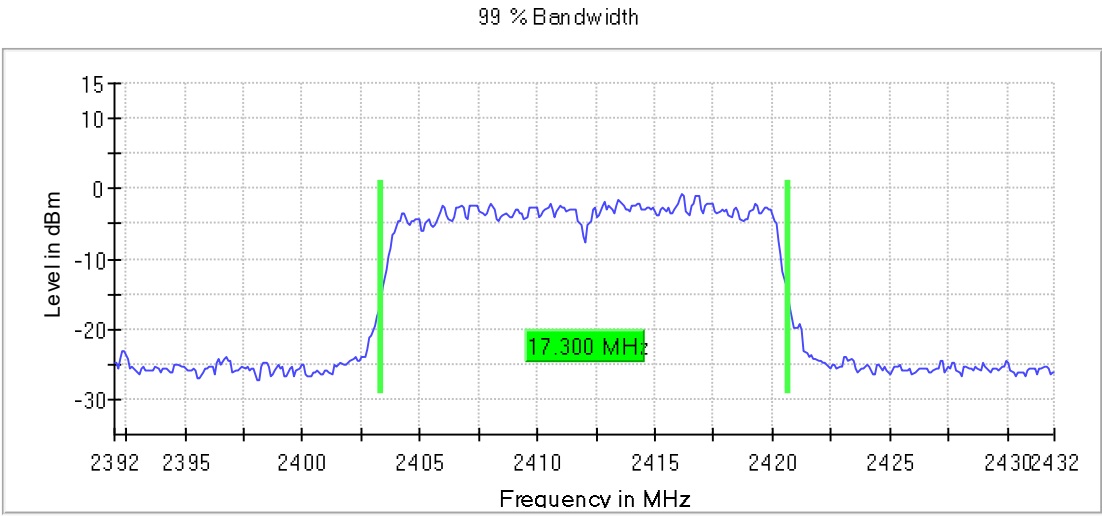
Verdict

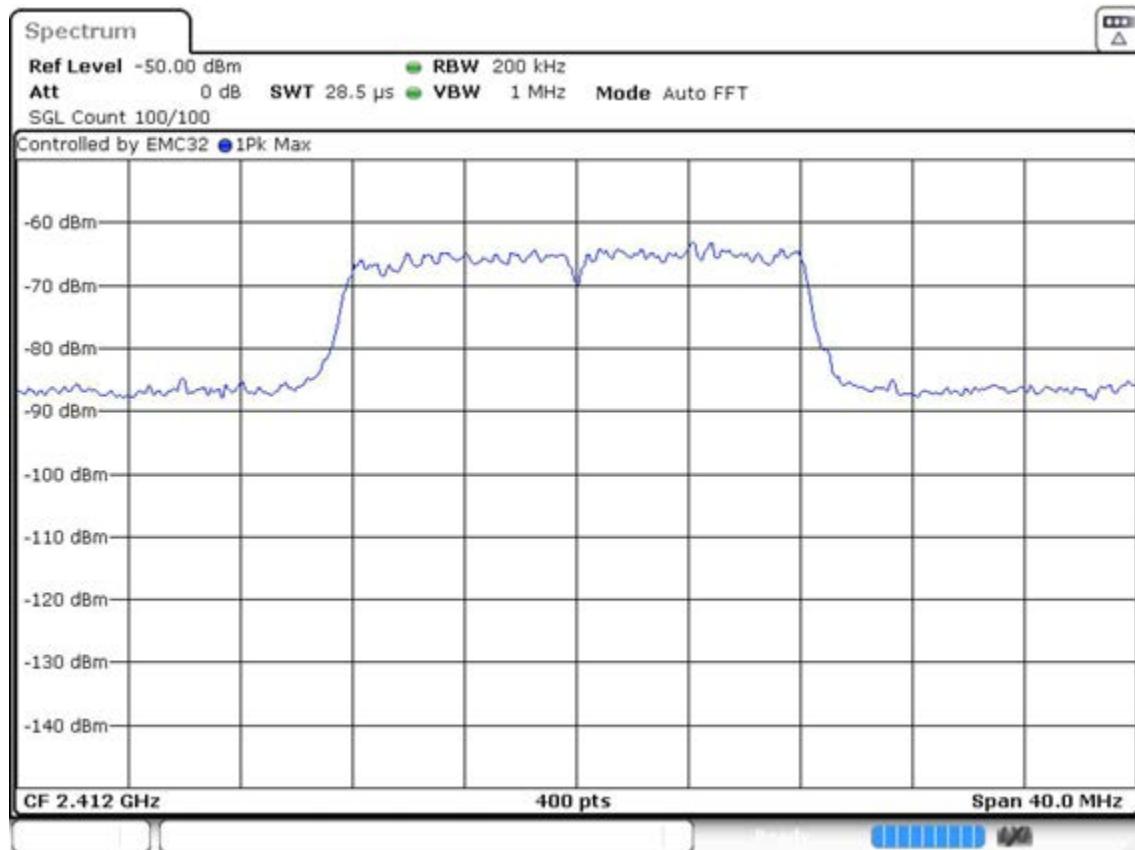
Pass

Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2412.00000 Active Port = 1
Modulation = 802.11g (OFDM 6 Mbit/s)

Images:





Date: 24.APR.2026 19:45:21

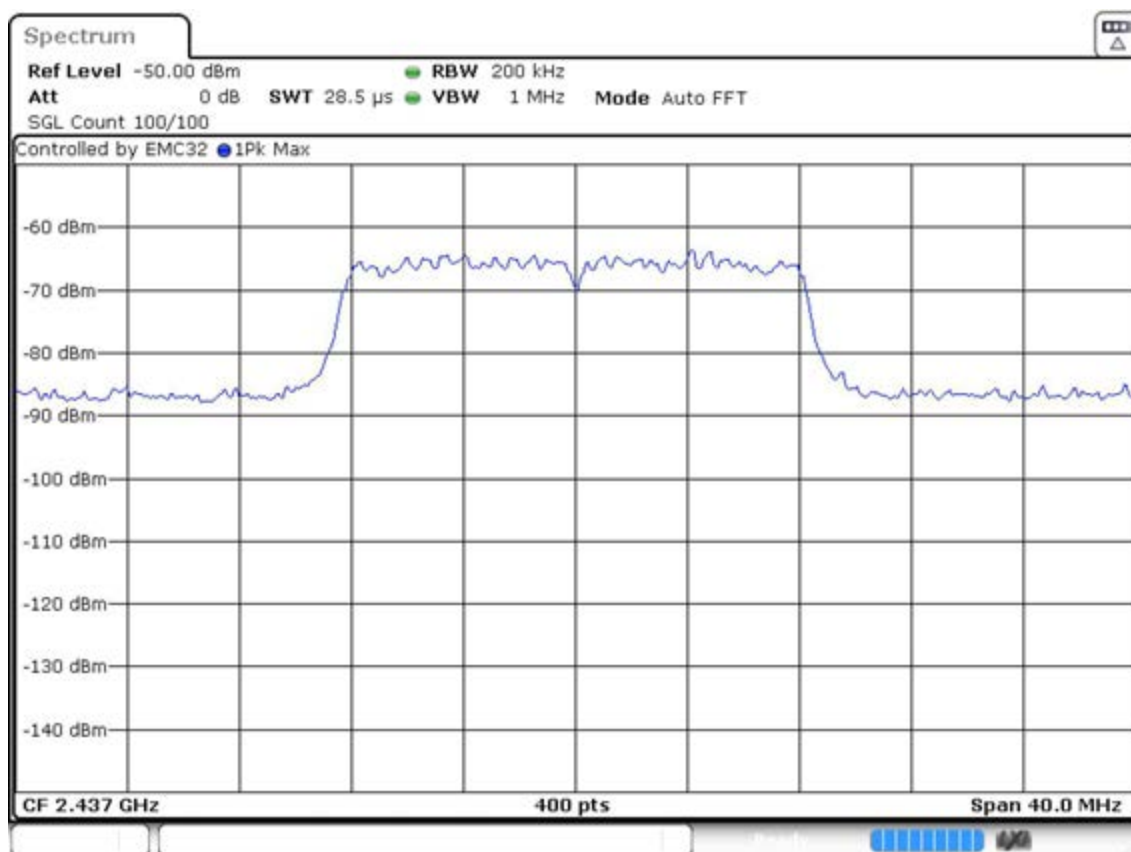
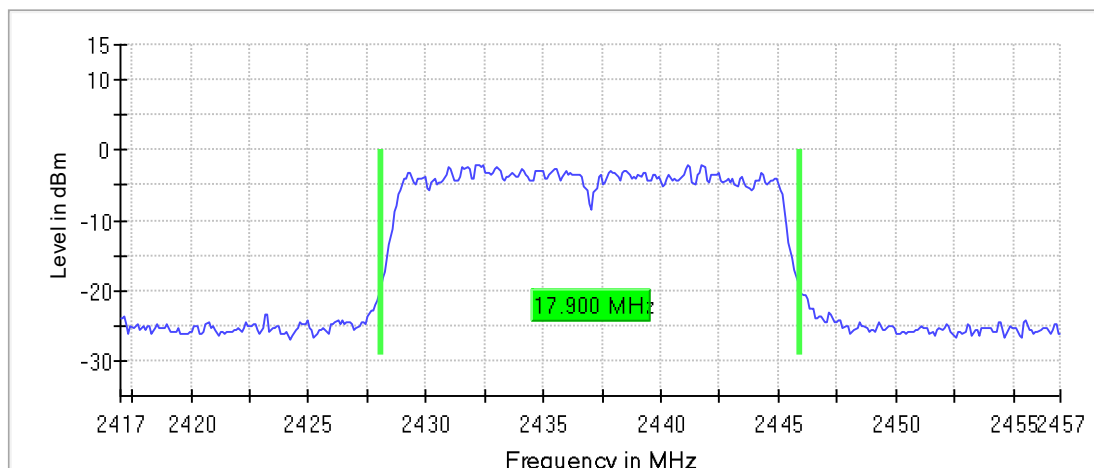
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2437.00000 Active Port = 1

Modulation = 802.11g (OFDM 6 Mbit/s)

Images:

99 % Bandwidth



Date: 24.APR.2026 19:52:41

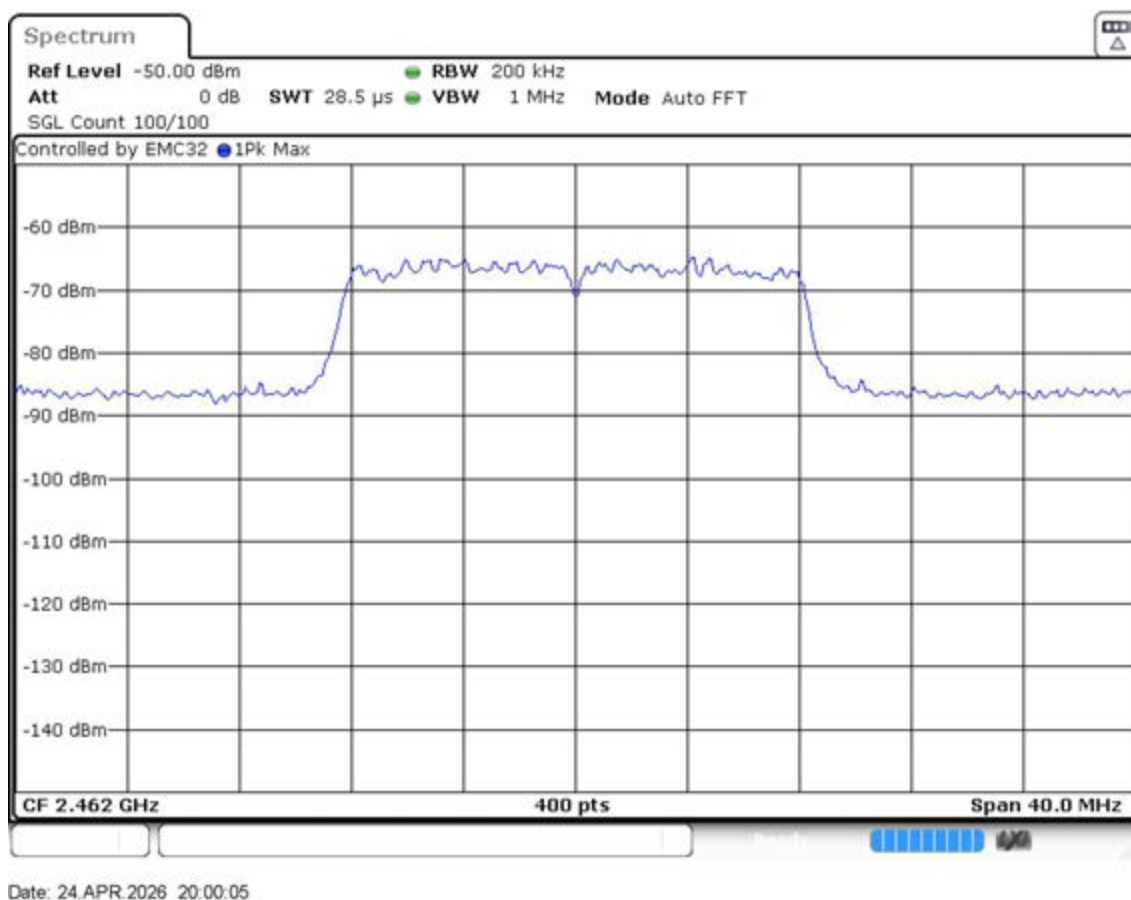
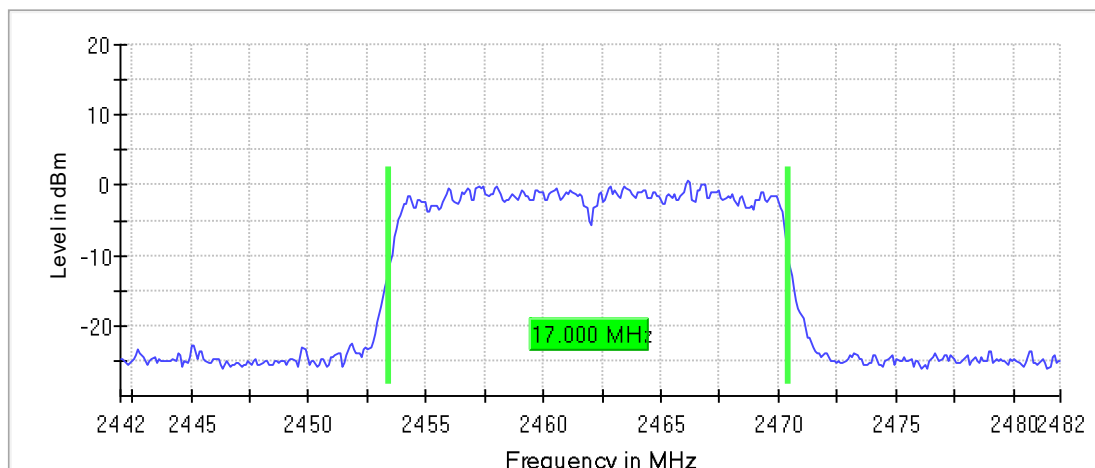
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2462.00000 Active Port = 1

Modulation = 802.11g (OFDM 6 Mbit/s)

Images:

99 % Bandwidth



Modulation: 802.11n HT20 (OFDM MCS0)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Occ Ch BW (MHz)
[2400, 2483.5]	Digital Transmission System (DTS)	2412.00000	1	18.100
		2437.00000		19.100
		2462.00000		17.900

Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5]

Equipment Type = Digital Transmission System (DTS)

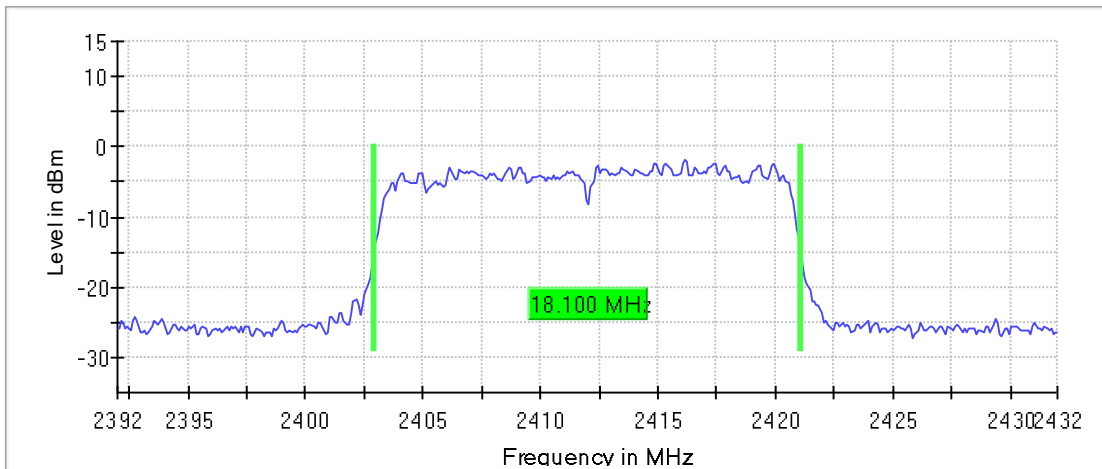
Frequency MHz = 2412.00000

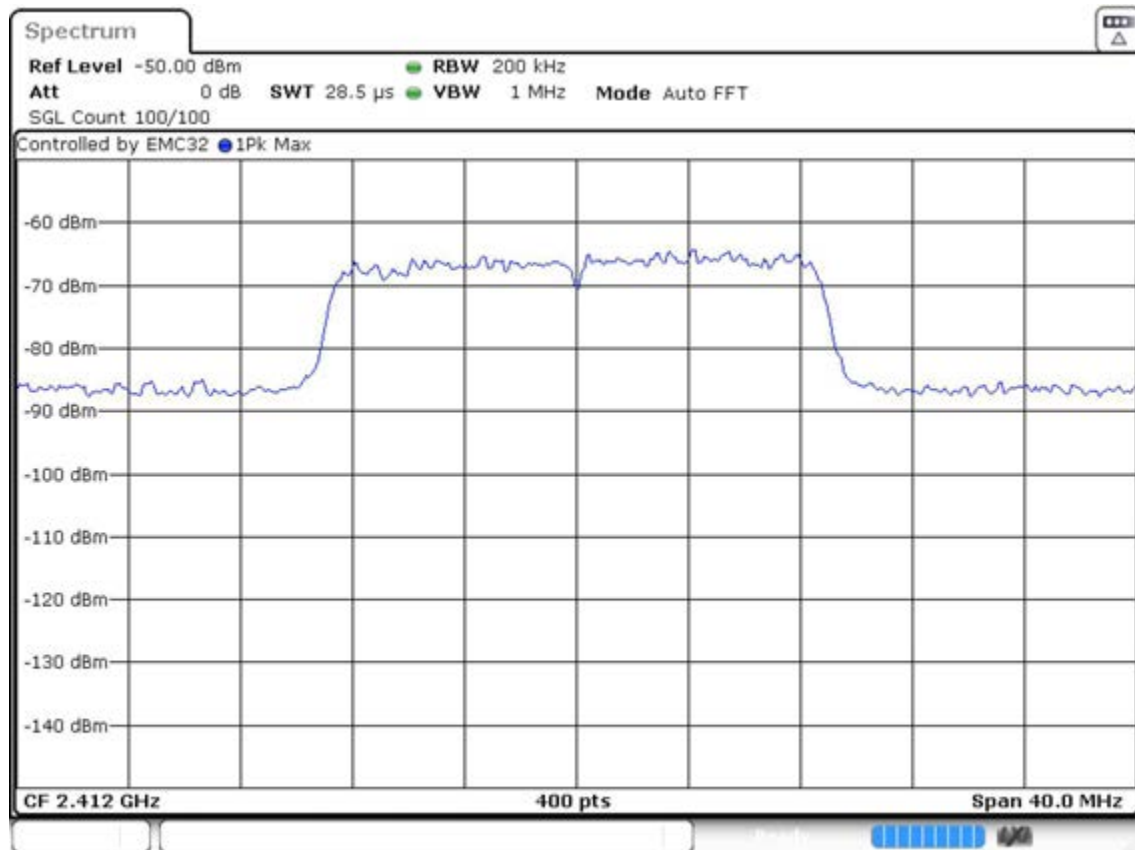
Active Port = 1

Modulation = 802.11n HT20 (OFDM MCS0)

Images:

99 % Bandwidth





Date: 24.APR.2026 20:11:46

Operation Band MHz = [2400, 2483.5]

Equipment Type = Digital Transmission System (DTS)

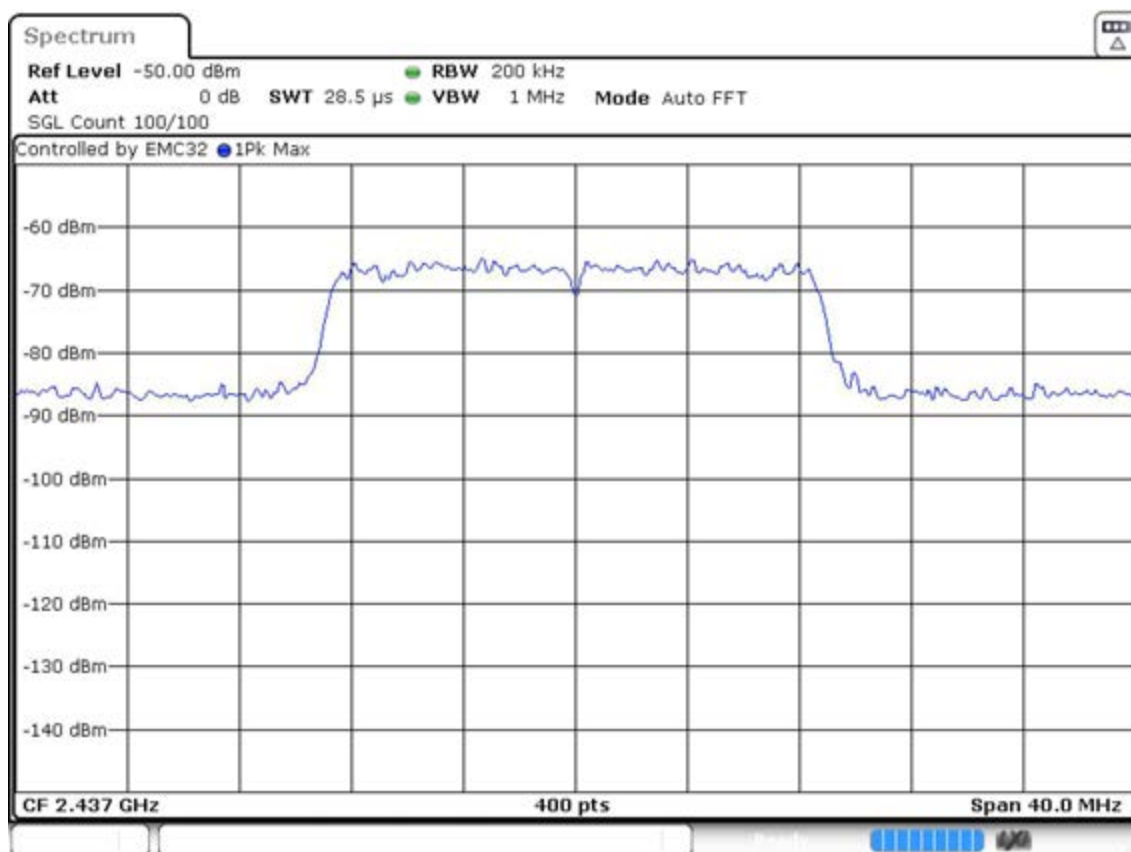
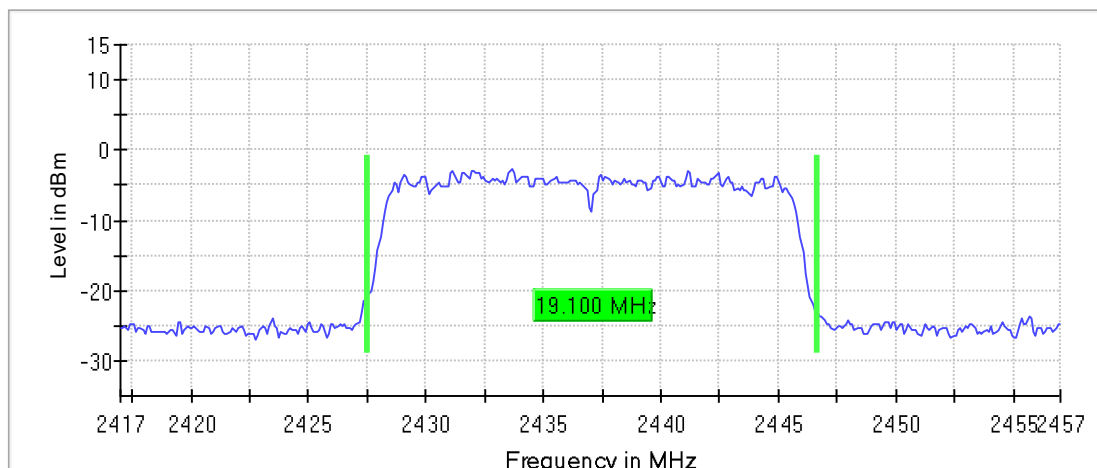
Frequency MHz = 2437.00000

Active Port = 1

Modulation = 802.11n HT20 (OFDM MCS0)

Images:

99 % Bandwidth



Operation Band MHz = [2400, 2483.5]

Equipment Type = Digital Transmission System (DTS)

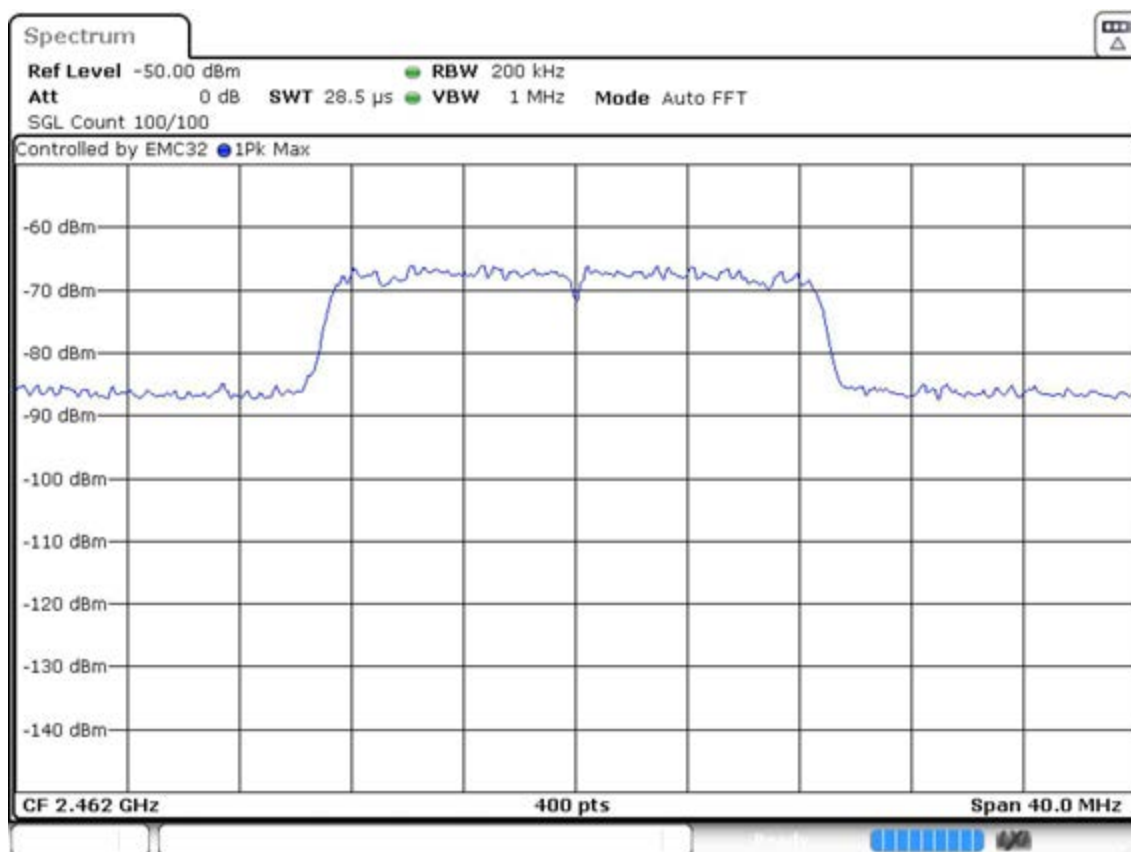
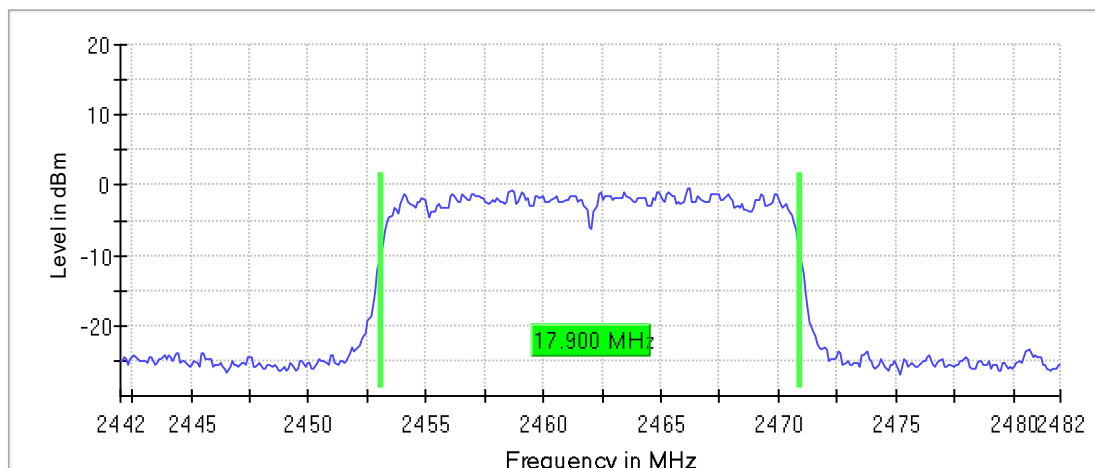
Frequency MHz = 2462.00000

Active Port = 1

Modulation = 802.11n HT20 (OFDM MCS0)

Images:

99 % Bandwidth



Date: 24.APR.2026 20:26:35

RSS-247 6.2.3.1 (a) / FCC 15.247 (a) (1) [20dBW] 20 dB Bandwidth

Limits

USA FCC Part 15.407 (11-18-2024):

FCC 15.247:

(a) Operation under the provisions of this Section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions.

(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

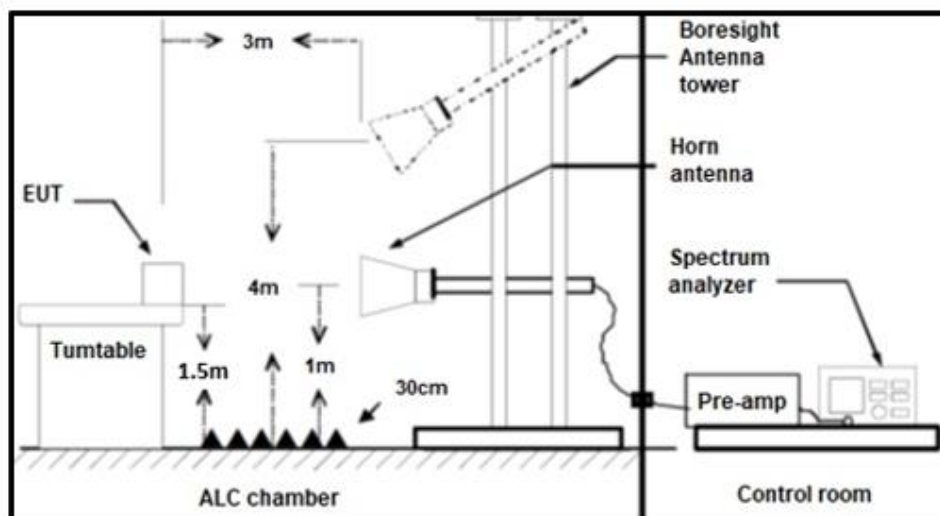
CANADA RSS-247 Issue 4 (July 2025):

6.2.1 General requirements for bandwidth and hopping channels applicable to all bands

The following bandwidth and hopping channel requirements shall apply to FHS operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz:

- a. the bandwidth of a frequency hopping channel is the 20 dB emission bandwidth, measured with the hopping stopped. The system's RF bandwidth is equal to the channel bandwidth multiplied by the number of channels in the hop set. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

TEST SETUP:



Modulation: BT (GFSK 1-DH5)

Results

Equipment	Freq (MHz)	Port	Ebw (MHz)
Frequency Hopping Spread Spectrum systems (DSS)	2402.00000	1	0.930
	2441.00000		0.930
	2480.00000		0.930

Verdict

Pass

Attachments

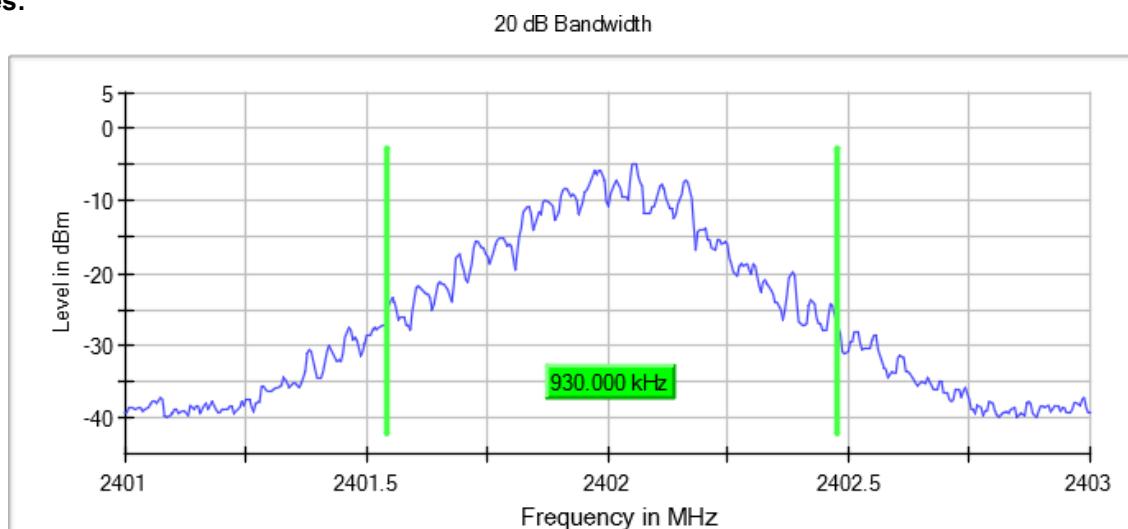
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)

Frequency MHz = 2402.00000

Active Port = 1

Modulation = BT (GFSK 1-DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.07 dB	0.50 dB

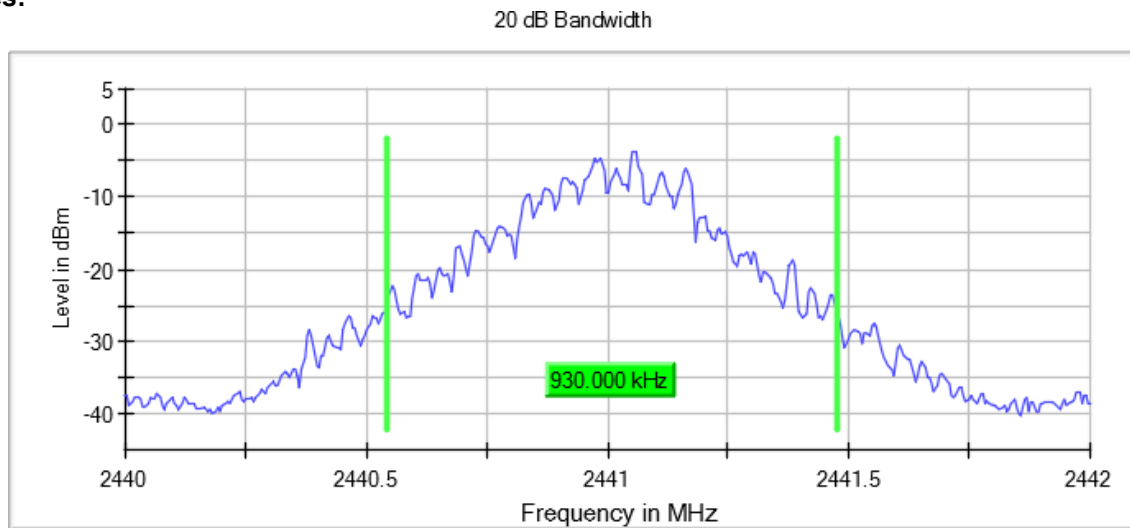
Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

Frequency MHz = 2441.00000

Active Port = 1

Modulation = BT (GFSK 1-
DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.07 dB	0.50 dB

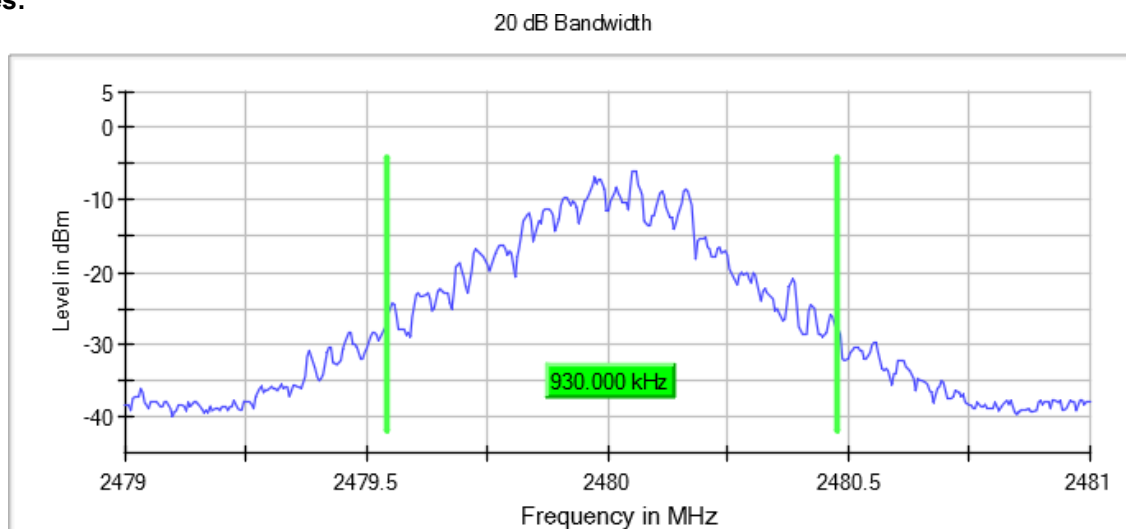
Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

Frequency MHz = 2480.00000

Active Port = 1

Modulation = BT (GFSK 1-
DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweptime	189.648 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.07 dB	0.50 dB

Modulation: BT (Pi/4 DQPSK 2-DH5)

Results

Equipment	Freq (MHz)	Port	Ebw (MHz)
Frequency Hopping Spread Spectrum systems (DSS)	2402.00000	1	1.315
	2441.00000		1.315
	2480.00000		1.315

Verdict

Pass

Attachments

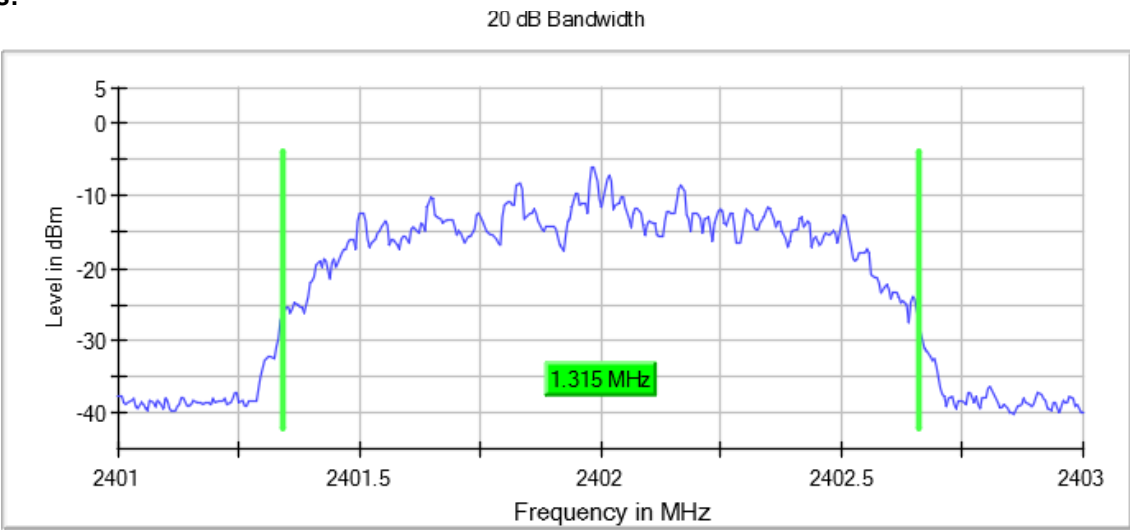
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)

Frequency MHz = 2402.00000

Active Port = 1

Modulation = BT (Pi/4 DQPSK 2-DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	10 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.50 dB

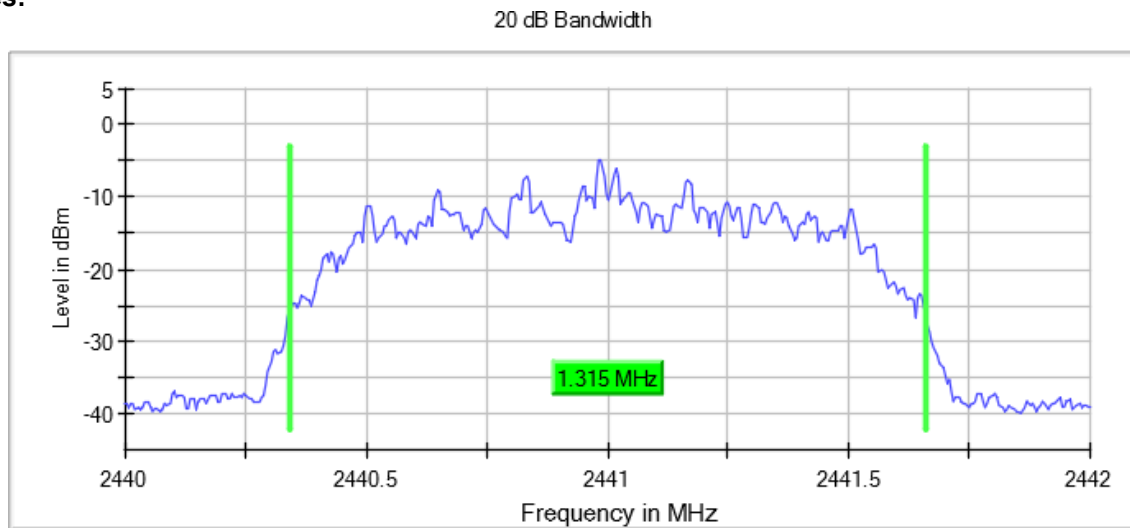
Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

Frequency MHz = 2441.00000

Active Port = 1

Modulation = BT (Pi/4 DQPSK 2-
DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	10 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.50 dB

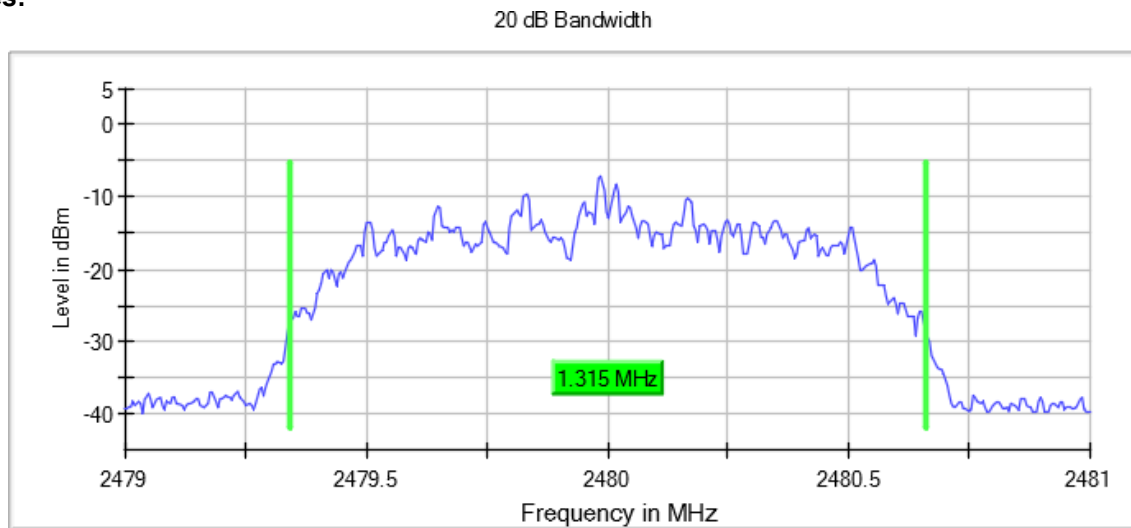
Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

Frequency MHz = 2480.00000

Active Port = 1

Modulation = BT (Pi/4 DQPSK 2-
DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	10 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.50 dB

Modulation: BT (8DPSK 3-DH5)

Results

Equipment	Freq (MHz)	Port	Ebw (MHz)
Frequency Hopping Spread Spectrum systems (DSS)	2402.00000	1	1.270
	2441.00000		1.285
	2480.00000		1.285

Verdict

Pass

Attachments

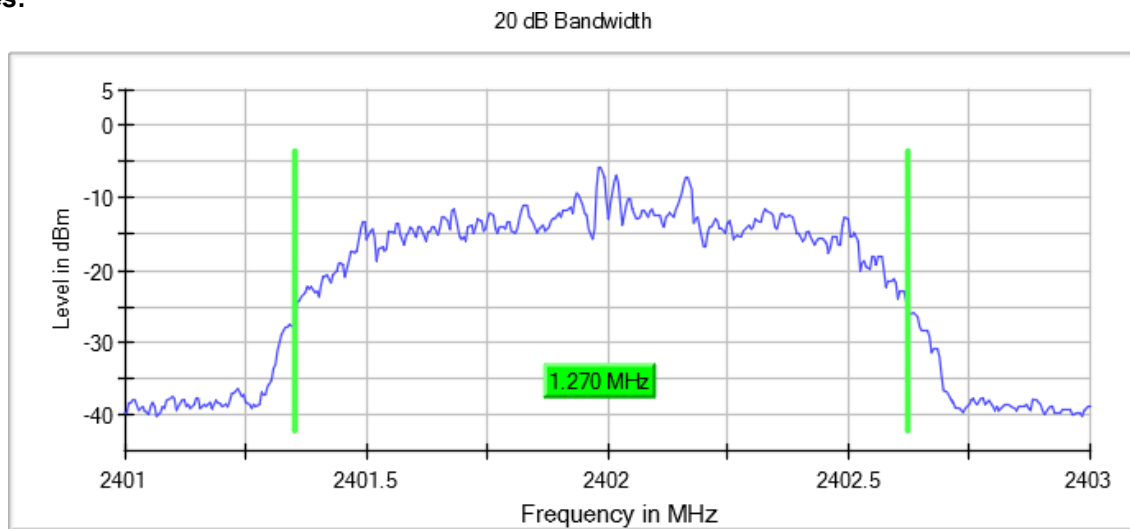
Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)

Frequency MHz = 2402.00000

Active Port = 1

Modulation = BT (8DPSK 3-DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.12 dB	0.50 dB

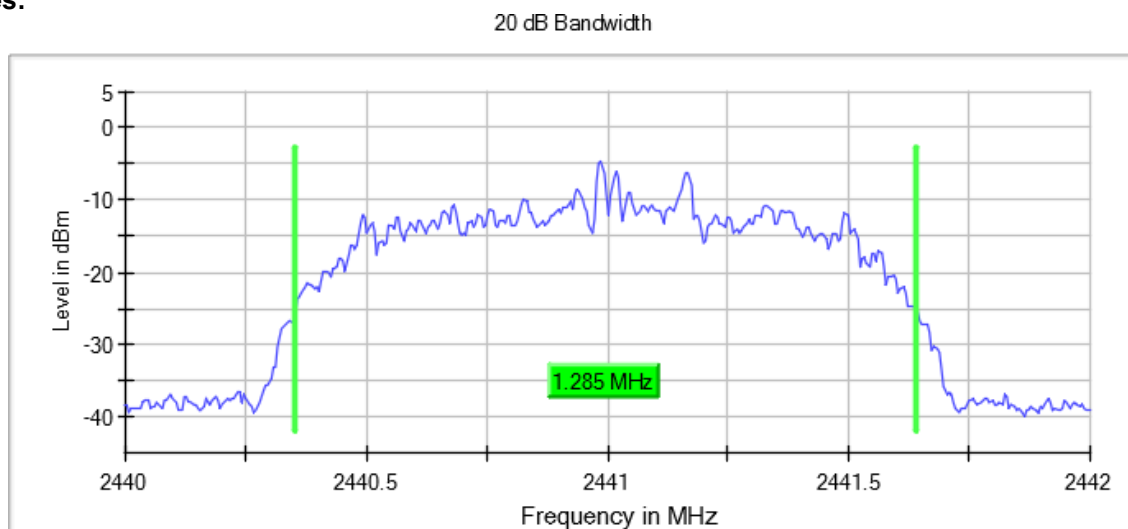
Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

Frequency MHz = 2441.00000

Active Port = 1

Modulation = BT (8DPSK 3-
DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweptime	189.648 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.12 dB	0.50 dB

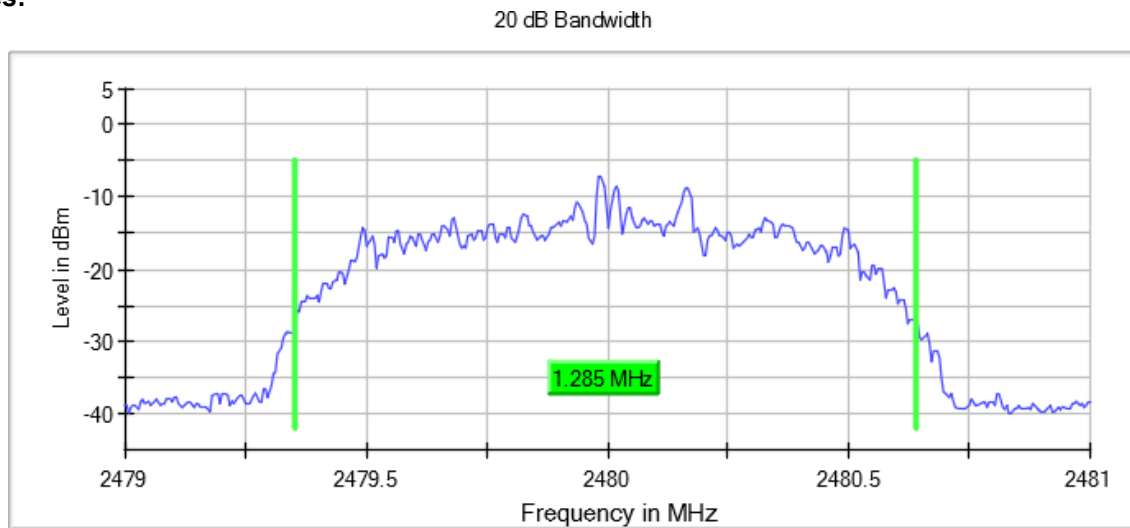
Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

Frequency MHz = 2480.00000

Active Port = 1

Modulation = BT (8DPSK 3-
DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.12 dB	0.50 dB

Modulation: 802.11b (DSSS 1 Mbit/s)

Results

Equipment	Freq (MHz)	Port	Ebw (MHz)
Digital Transmission System (DTS)	2412.00000	1	15.300
	2437.00000		15.200
	2462.00000		15.300

Verdict

Pass

Attachments

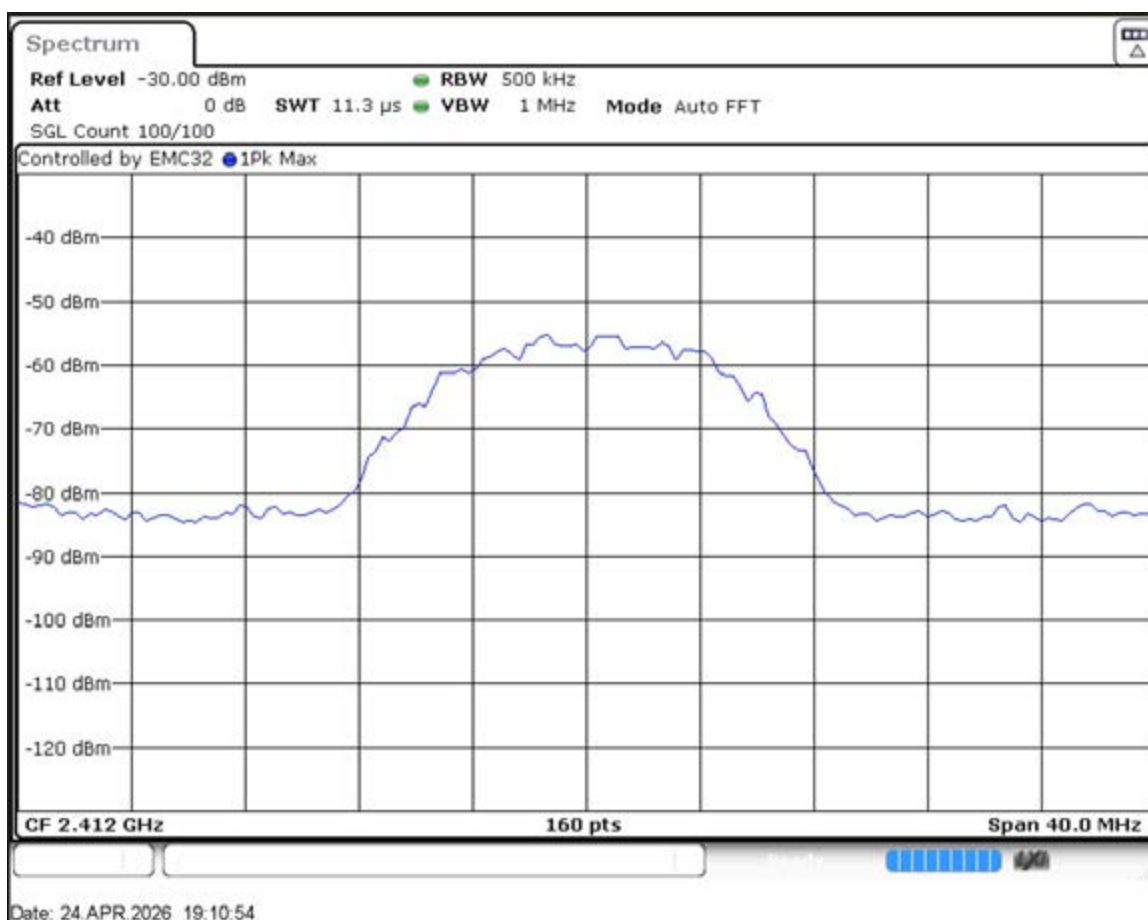
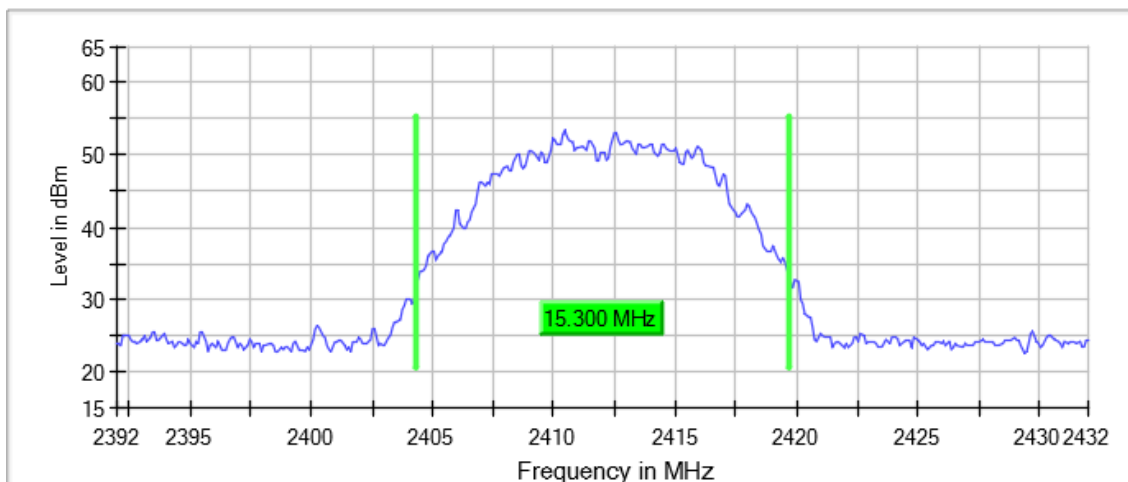
Equipment Type = Digital Transmission System (DTS) Frequency MHz = 2412.00000

Active Port = 1

Modulation = 802.11b (DSSS 1 Mbit/s)

Images:

20 dB Bandwidth



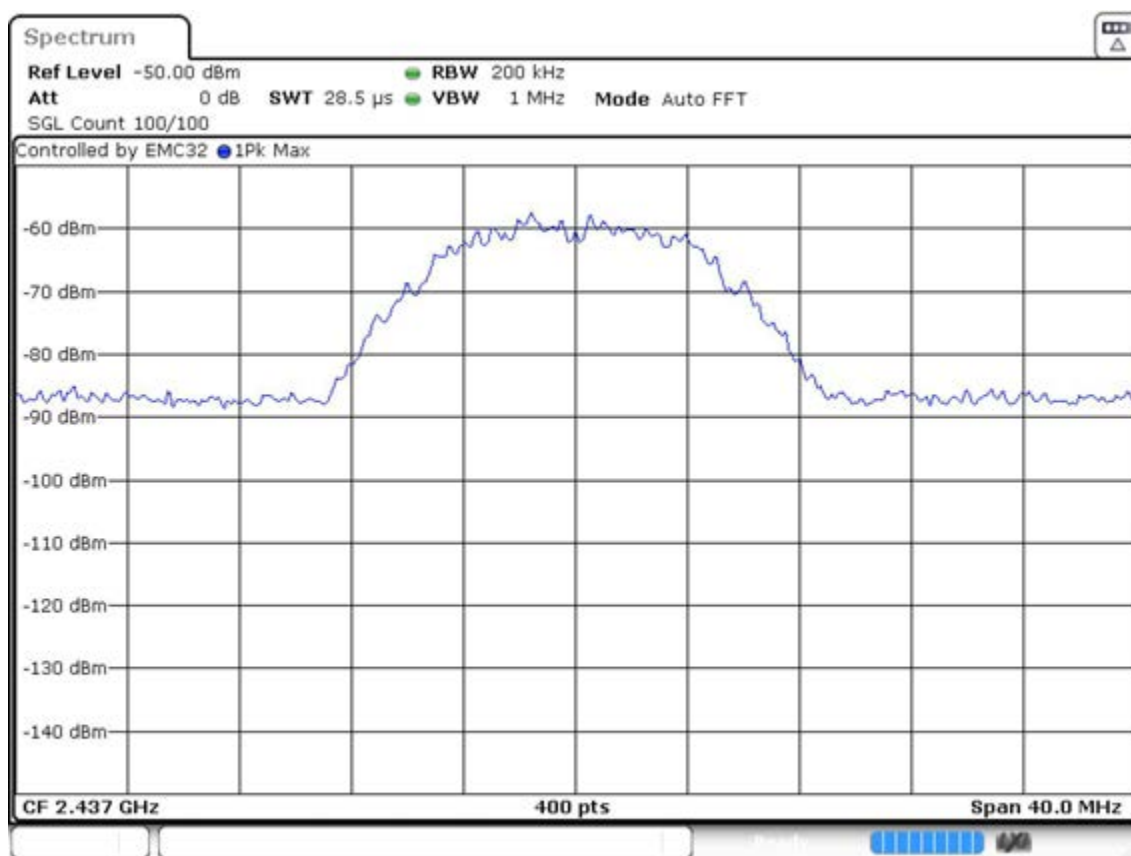
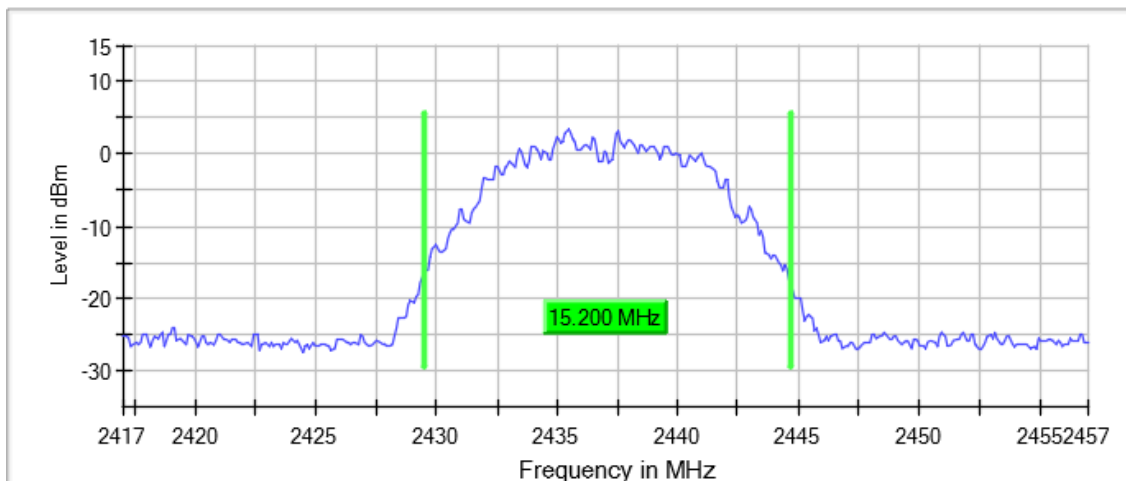
Equipment Type = Digital Transmission System (DTS) Frequency MHz = 2437.00000

Active Port = 1

Modulation = 802.11b (DSSS 1 Mbit/s)

Images:

20 dB Bandwidth



Date: 24.APR.2026 19:18:07

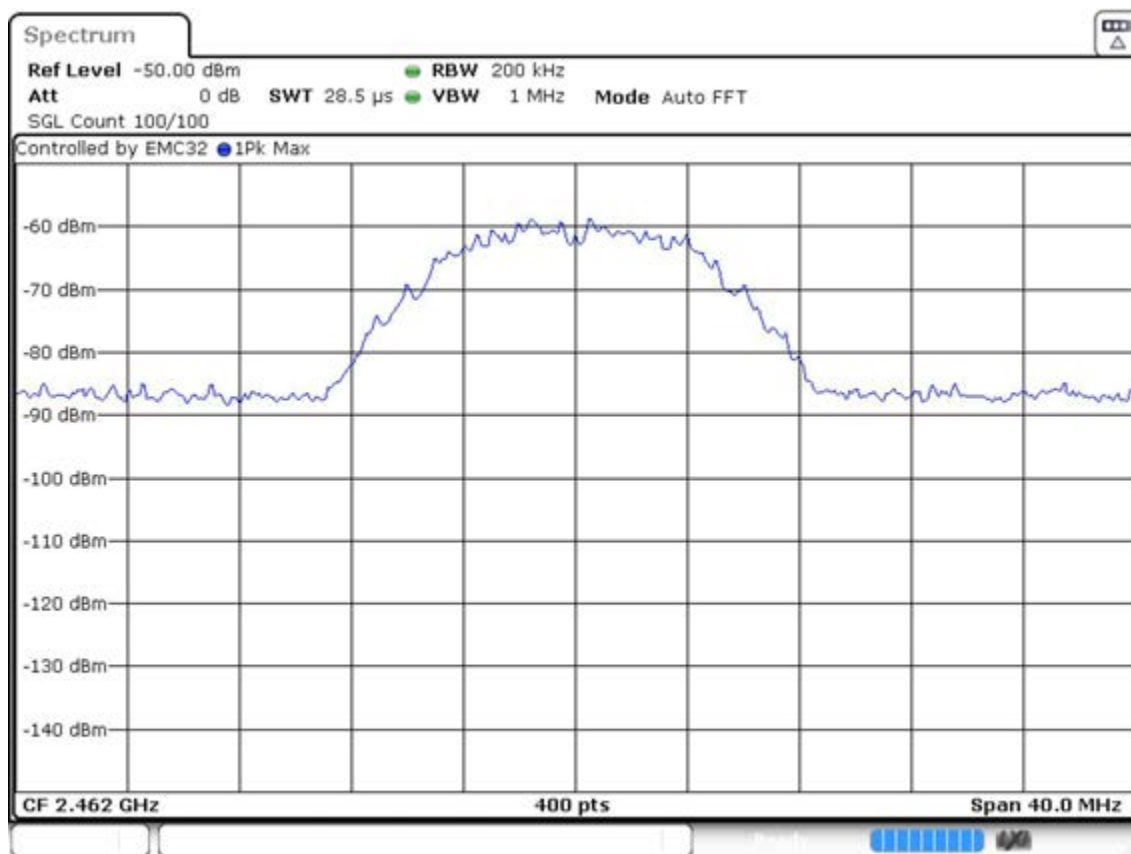
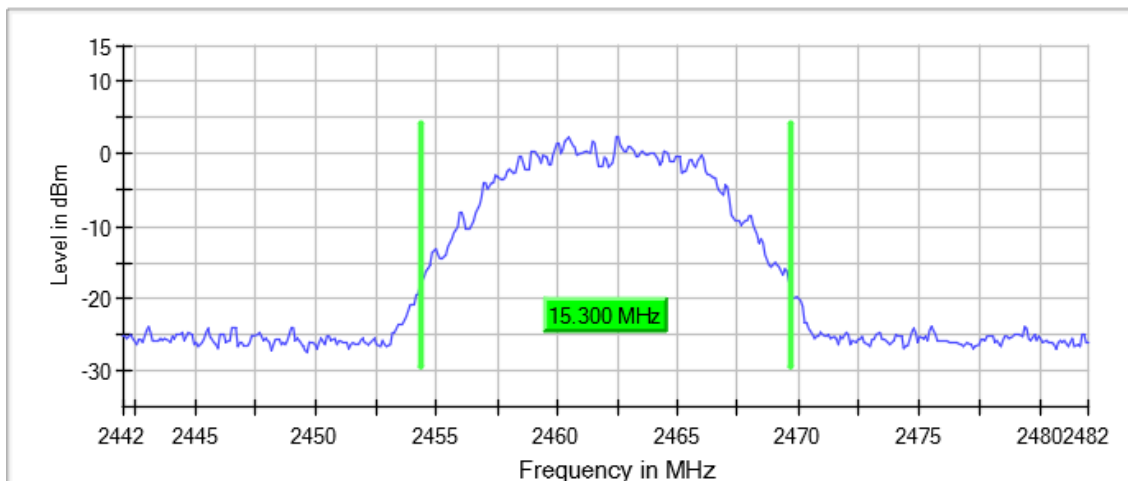
Equipment Type = Digital Transmission System (DTS) Frequency MHz = 2462.00000

Active Port = 1

Modulation = 802.11b (DSSS 1 Mbit/s)

Images:

20 dB Bandwidth



Date: 24.APR.2026 19:24:54

Modulation: 802.11g (OFDM 6 Mbit/s)

Results

Equipment	Freq (MHz)	Port	Ebw (MHz)
Digital Transmission System (DTS)	2412.00000	1	18.200
	2437.00000		18.400
	2462.00000		18.200

Verdict

Pass

Attachments

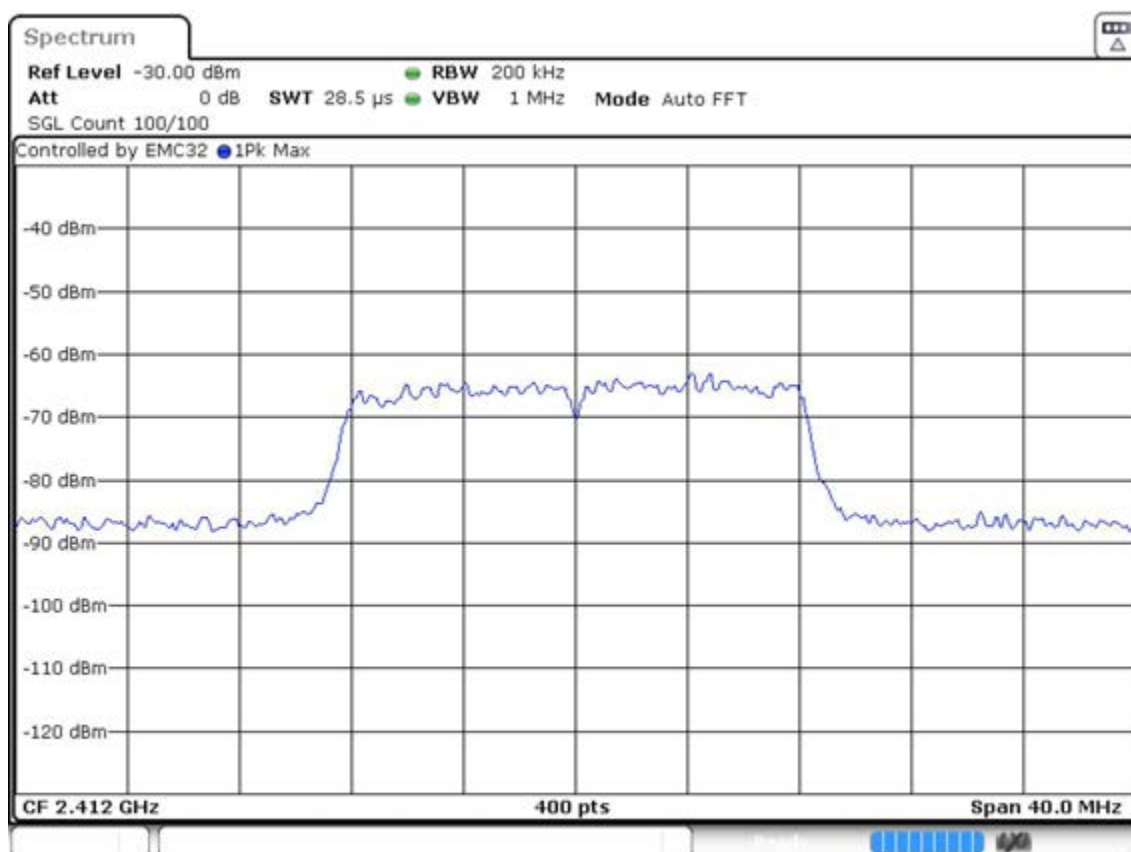
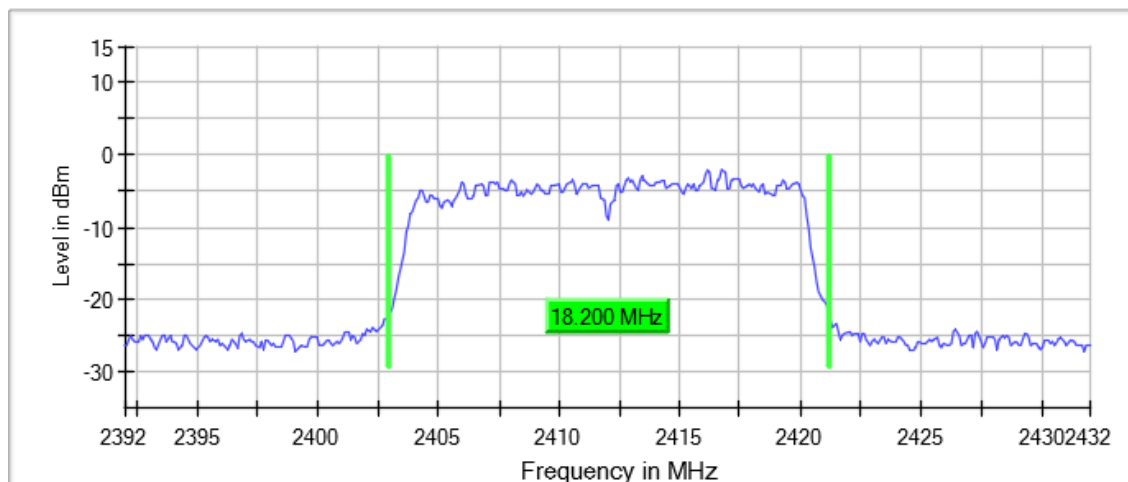
Equipment Type = Digital Transmission System (DTS) Frequency MHz = 2412.00000

Active Port = 1

Modulation = 802.11g (OFDM 6 Mbit/s)

Images:

20 dB Bandwidth



Date: 24.APR.2026 19:40:18

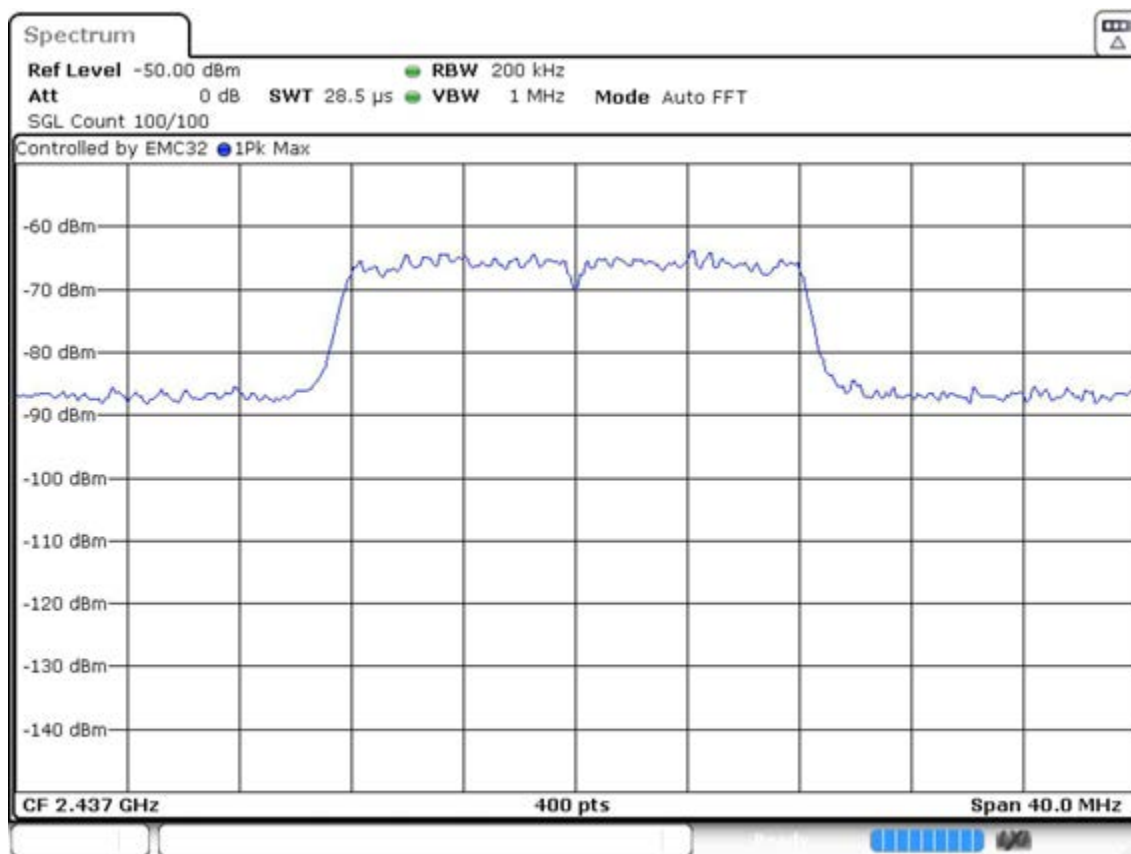
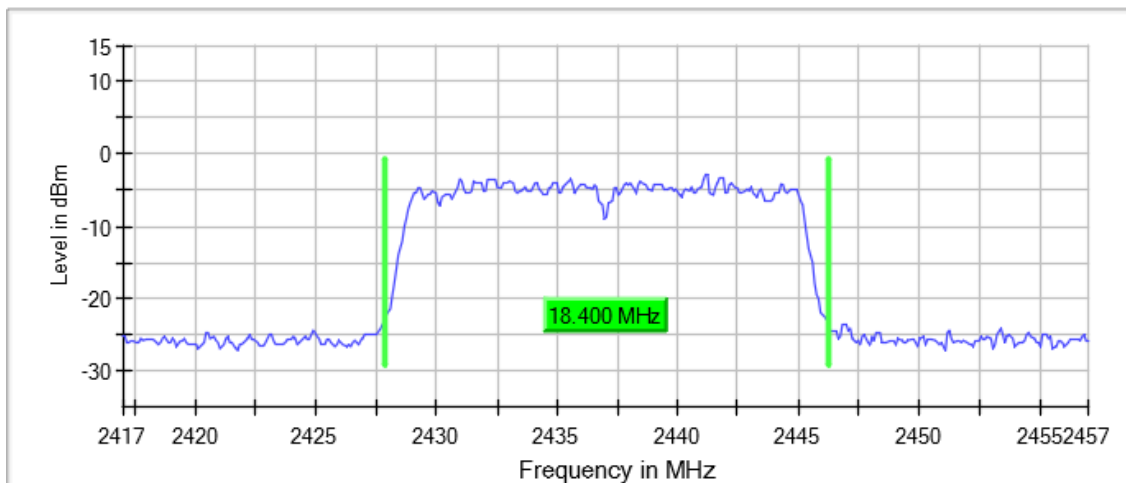
Equipment Type = Digital Transmission System (DTS) Frequency MHz = 2437.00000

Active Port = 1

Modulation = 802.11g (OFDM 6 Mbit/s)

Images:

20 dB Bandwidth



Date: 24.APR.2026 19:47:41

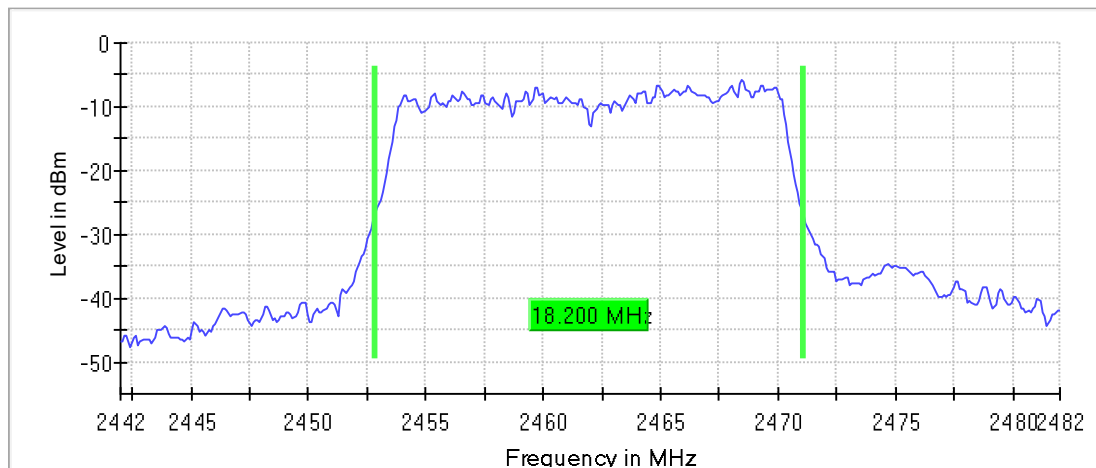
Equipment Type = Digital Transmission System (DTS) Frequency MHz = 2462.00000

Active Port = 1

Modulation = 802.11g (OFDM 6 Mbit/s)

Images:

20 dB Bandwidth



Date: 28. APR. 2026 19:31:13

Modulation: 802.11n HT20 (OFDM MCS0)

Results

Equipment	Freq (MHz)	Port	Ebw (MHz)
Digital Transmission System (DTS)	2412.00000	1	19.100
	2437.00000		18.800
	2462.00000		18.800

Verdict

Pass

Attachments

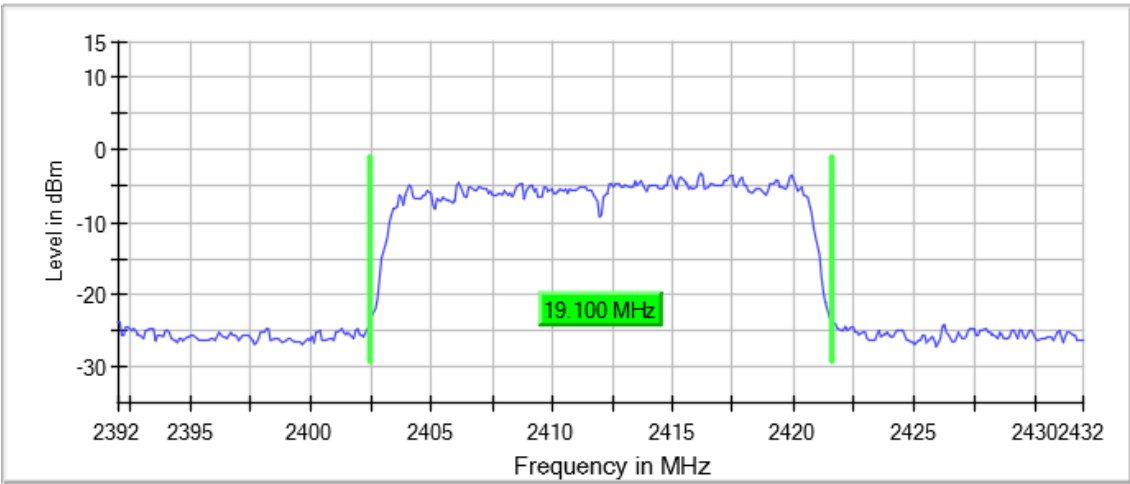
Equipment Type = Digital Transmission System (DTS) Frequency MHz = 2412.00000

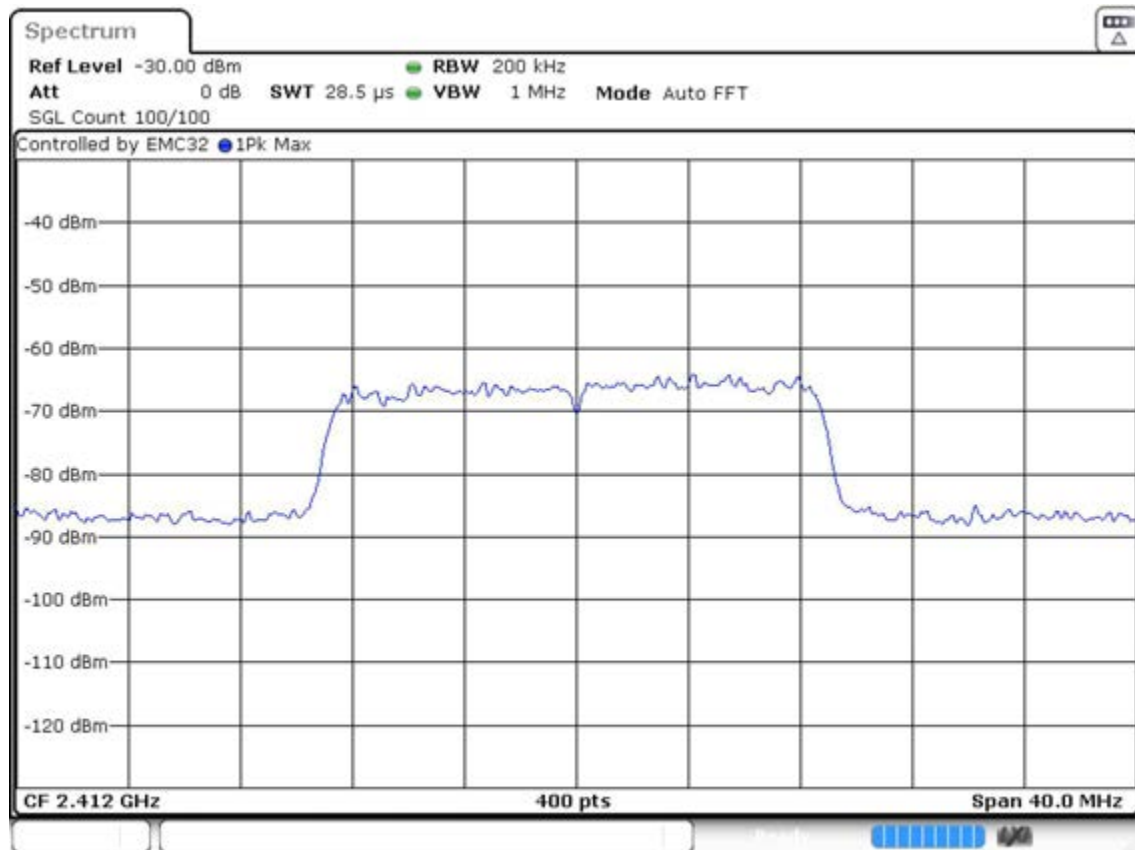
Active Port = 1

Modulation = 802.11n HT20 (OFDM MCS0)

Images:

20 dB Bandwidth





Date: 24.APR.2026 20:04:47

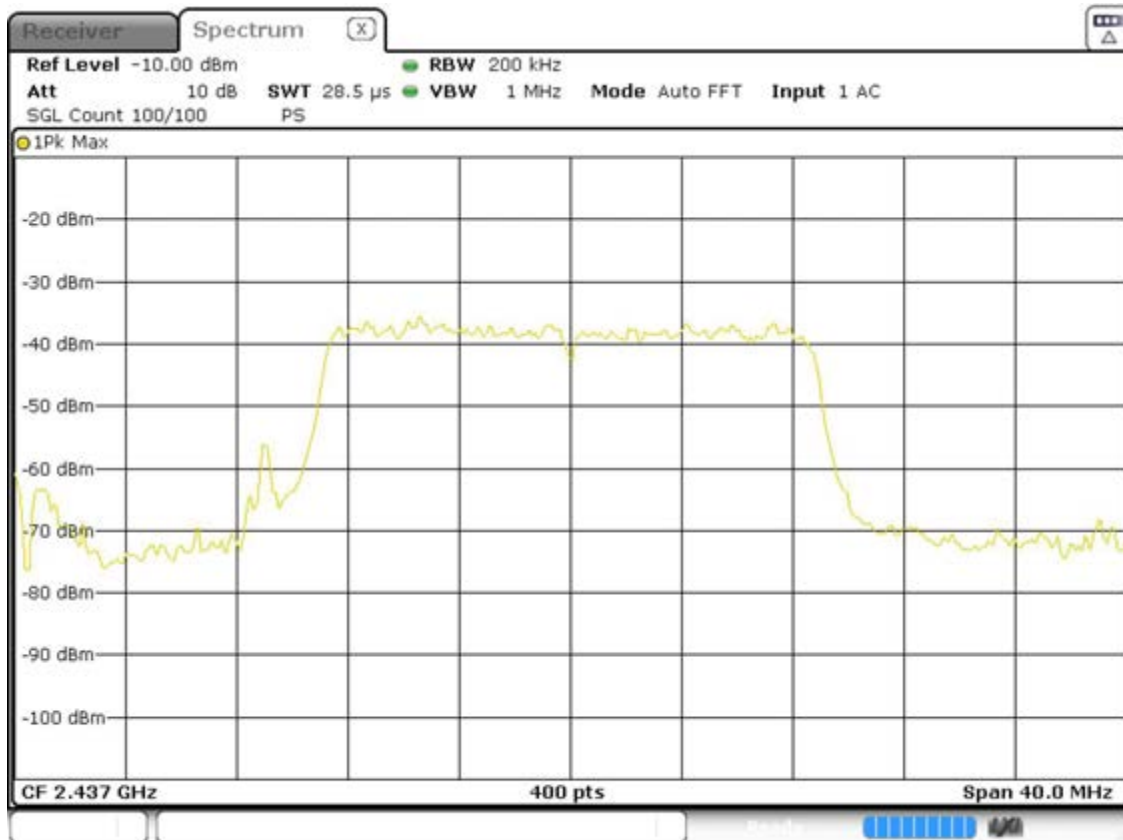
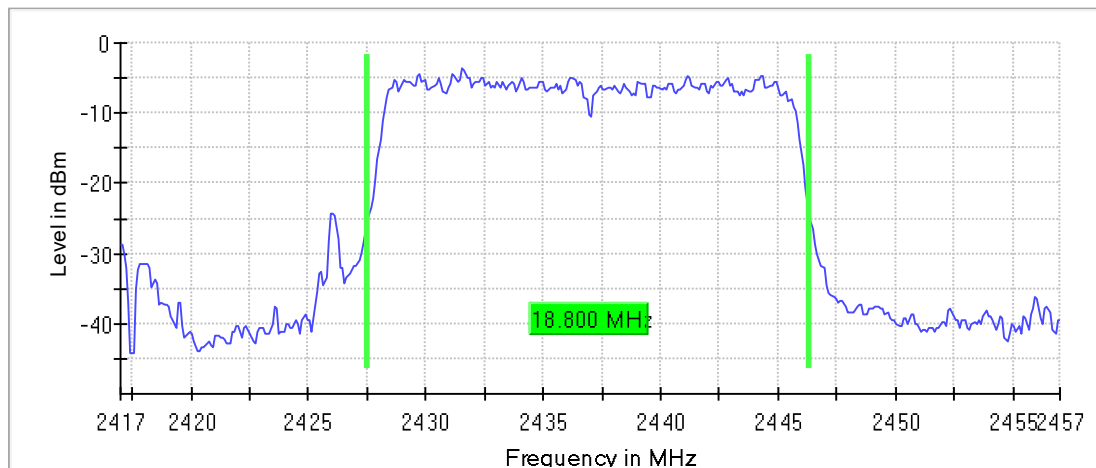
Equipment Type = Digital Transmission System (DTS) Frequency MHz = 2437.00000

Active Port = 1

Modulation = 802.11n HT20 (OFDM MCS0)

Images:

20 dB Bandwidth



Date: 28. APR. 2026 19:33:26

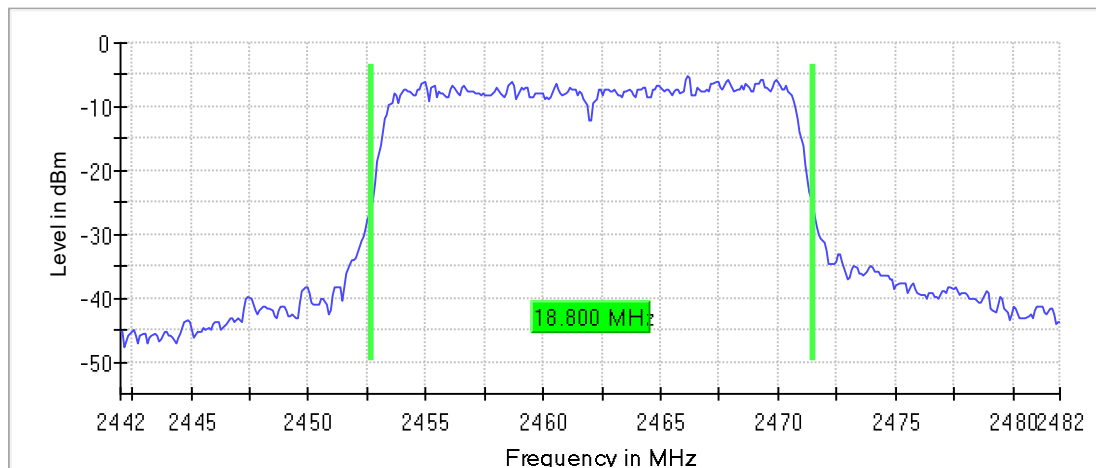
Equipment Type = Digital Transmission System (DTS) Frequency MHz = 2462.00000

Active Port = 1

Modulation = 802.11n HT20 (OFDM MCS0)

Images:

20 dB Bandwidth



Date: 28. APR. 2026 19:34:00

RSS-247 6.2.3.1 (a) / FCC 15.247 (a) (1) [CFS] Carrier Frequency Separation

Limits

USA FCC Part 15.407 (11-18-2024) :

FCC 15.247:

(a) Operation under the provisions of this Section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions.

(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

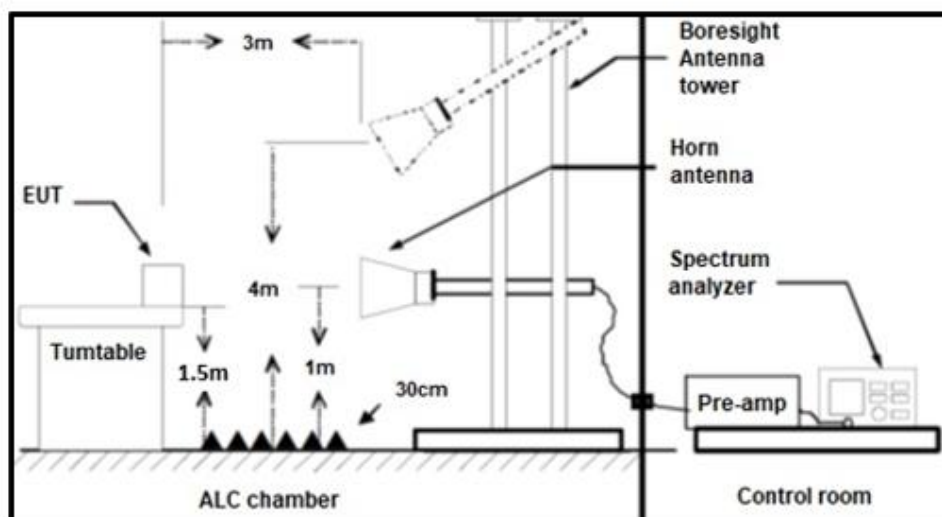
CANADA RSS-247 Issue 4 (July 2025):

6.2.1 General requirements for bandwidth and hopping channels applicable to all bands

The following bandwidth and hopping channel requirements shall apply to FHS operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz:

- b. the hopping channel carrier frequencies shall be separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

TEST SETUP:



Modulation: BT (GFSK 1-DH5)

Results

Equipment	Port	Freq Sep (MHz)
Frequency Hopping Spread Spectrum systems (DSS)	1	1.01

Verdict

Pass

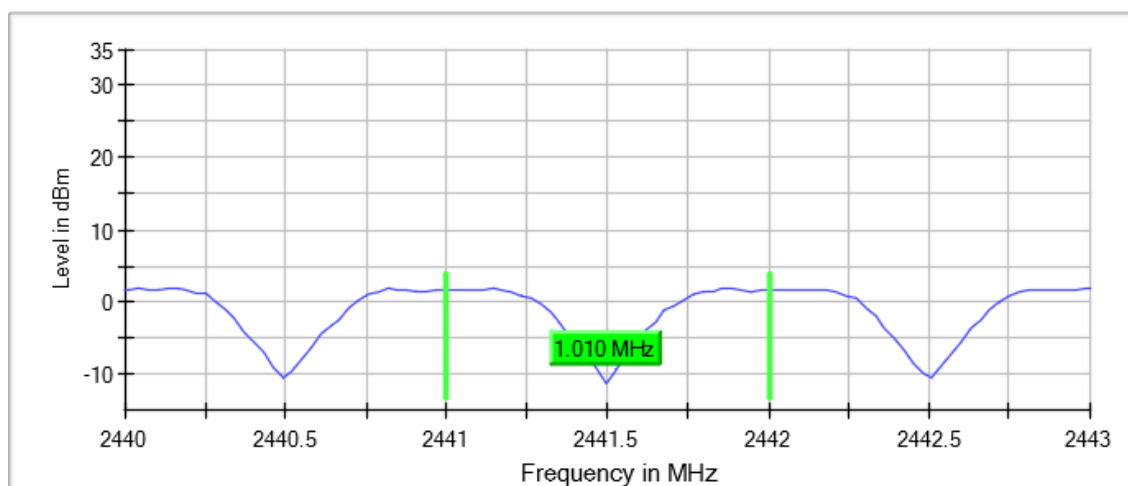
Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS) Active Port = 1

Modulation = BT (GFSK 1-DH5)

Images:

CFS



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
SweepTime	1.000 ms	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	13 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

Modulation: BT (Pi/4 DQPSK 2-DH5)

Results

Equipment	Port	Freq Sep (MHz)
Frequency Hopping Spread Spectrum systems (DSS)	1	1.01

Verdict

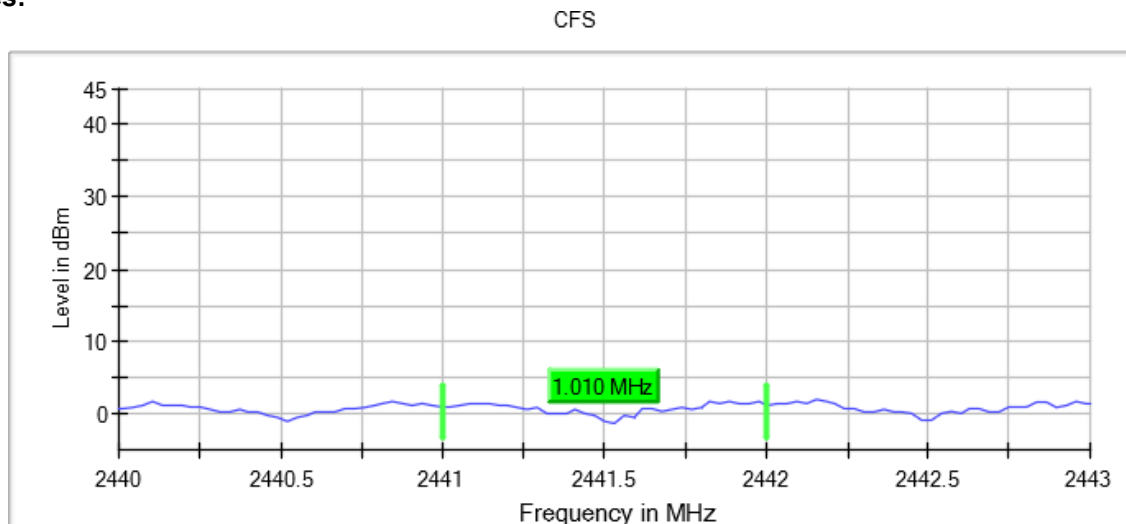
Pass

Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS) Active Port = 1

Modulation = BT (Pi/4 DQPSK 2-DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
SweepTime	1.000 ms	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	11 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

Modulation: BT (8DPSK 3-DH5)

Results

Equipment	Port	Freq Sep (MHz)
Frequency Hopping Spread Spectrum systems (DSS)	1	1.01

Verdict

Pass

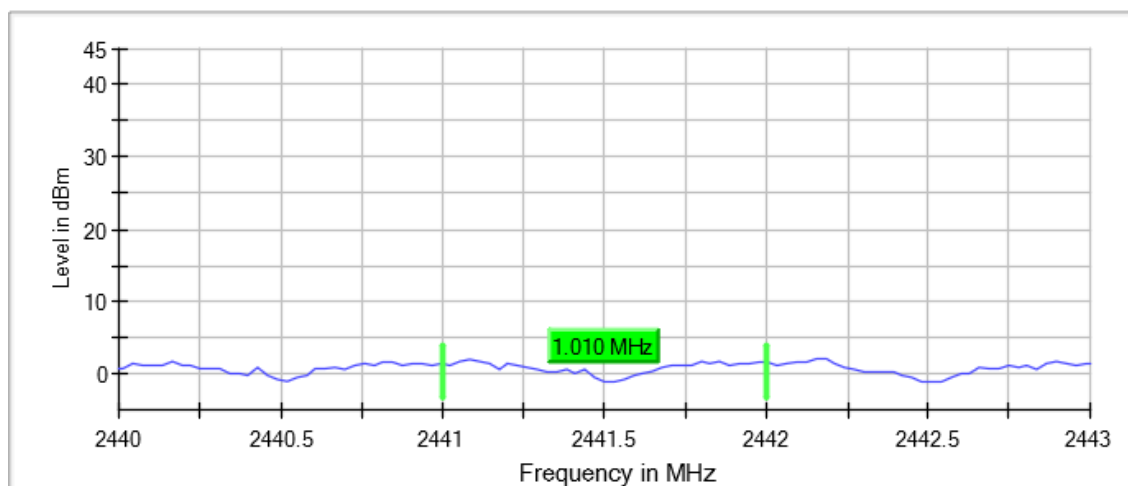
Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS) Active Port = 1

Modulation = BT (8DPSK 3-DH5)

Images:

CFS



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	11 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

RSS-247 / FCC 15.247 - [DwT] Time of Occupancy (Dwell Time)

Limits

USA FCC Part 15.407 (11-18-2024) :

FCC 15.247:

(a) Operation under the provisions of this Section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions.

(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

(iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

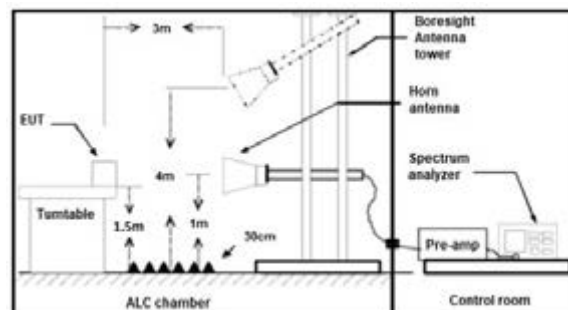
CANADA RSS-247 Issue 4 (July 2025):

6.2.3.1 Bandwidth and hopping channels

The following bandwidth and hopping channel requirements shall apply:

- b. FHS operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels. The average time of occupancy on any channel shall not be greater than 0.4 s within a period of 0.4 s, multiplied by the number of hopping channels employed. Transmissions on particular hopping frequencies may be avoided or suppressed provided that at least 15 hopping channels are used.

TEST SETUP:



$$\begin{aligned} \text{DH1 time slot} &= \text{Pulse Duration} \times (1600/(2 \times 79)) \times \text{A period time}/1000 \\ \text{DH3 time slot} &= \text{Pulse Duration} \times (1600/(4 \times 79)) \times \text{A period time}/1000 \\ \text{DH5 time slot} &= \text{Pulse Duration} \times (1600/(6 \times 79)) \times \text{A period time}/1000 \\ \text{A period time} &= 0.4 \times 79 = 31.6 \text{ seconds} \end{aligned}$$

Modulation: BT (GFSK 1-DH5)

Results

Equipment	Port	NHp	Avg COT (ms)
Frequency Hopping Spread Spectrum systems (FHSS)	1	79	249.640

Verdict

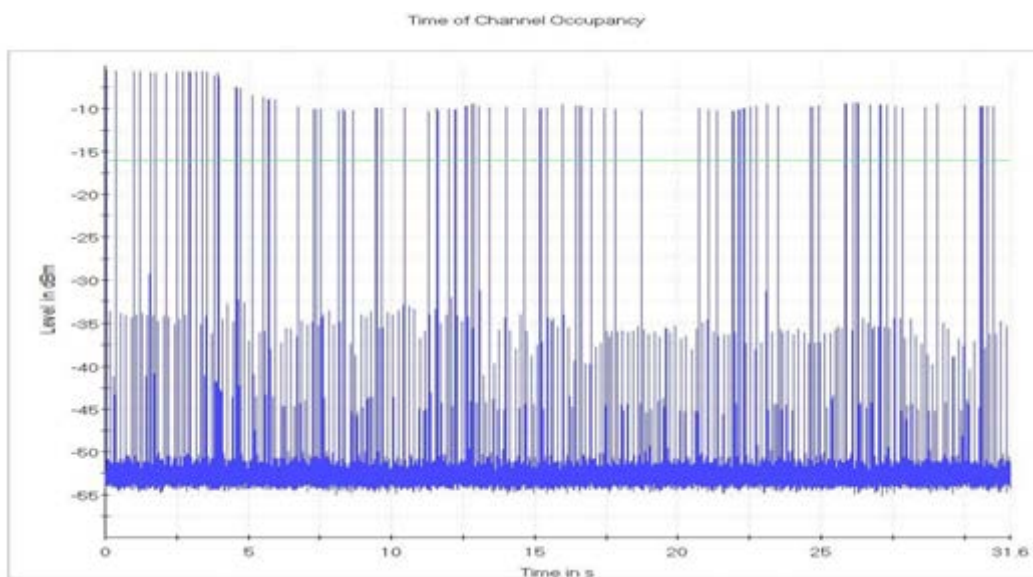
Pass

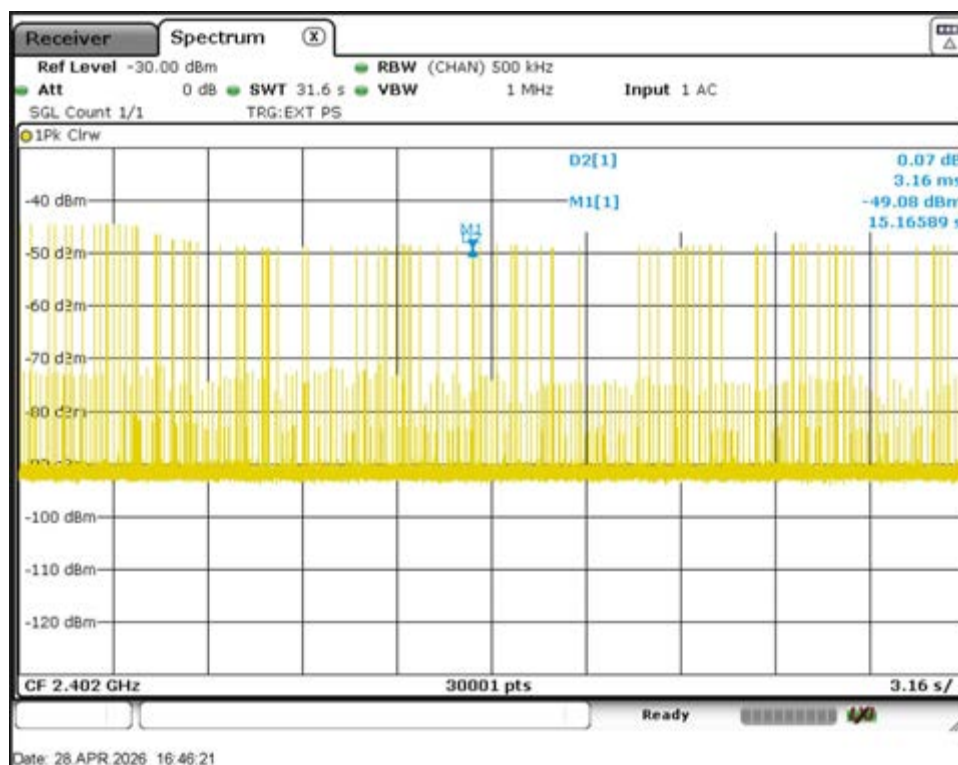
Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (FHSS) Active Port = 1

Modulation = BT (GFSK 1-DH5)

Images:





Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Center Frequency	2.40200 GHz	2.40200 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	~ 1.500 MHz
SweepPoints	30001	~ 30001
SweepTime	31.600 s	31.600 s
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	5.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamplifier	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Modulation: BT (Pi/4 DQPSK 2-DH5)

Results

Equipment	Port	NHp	Avg COT (ms)
Frequency Hopping Spread Spectrum systems (FHSS)	1	94	297.040

Verdict

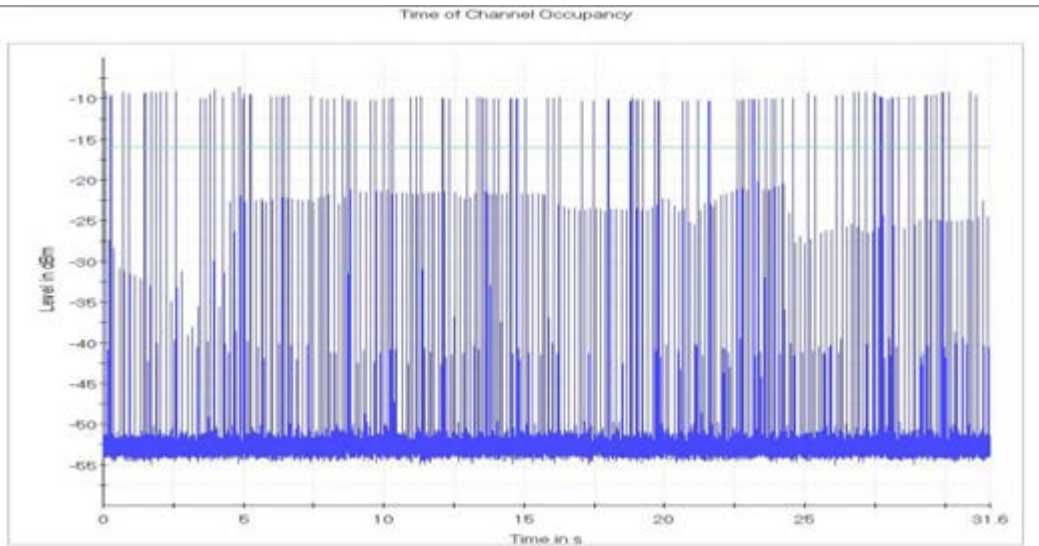
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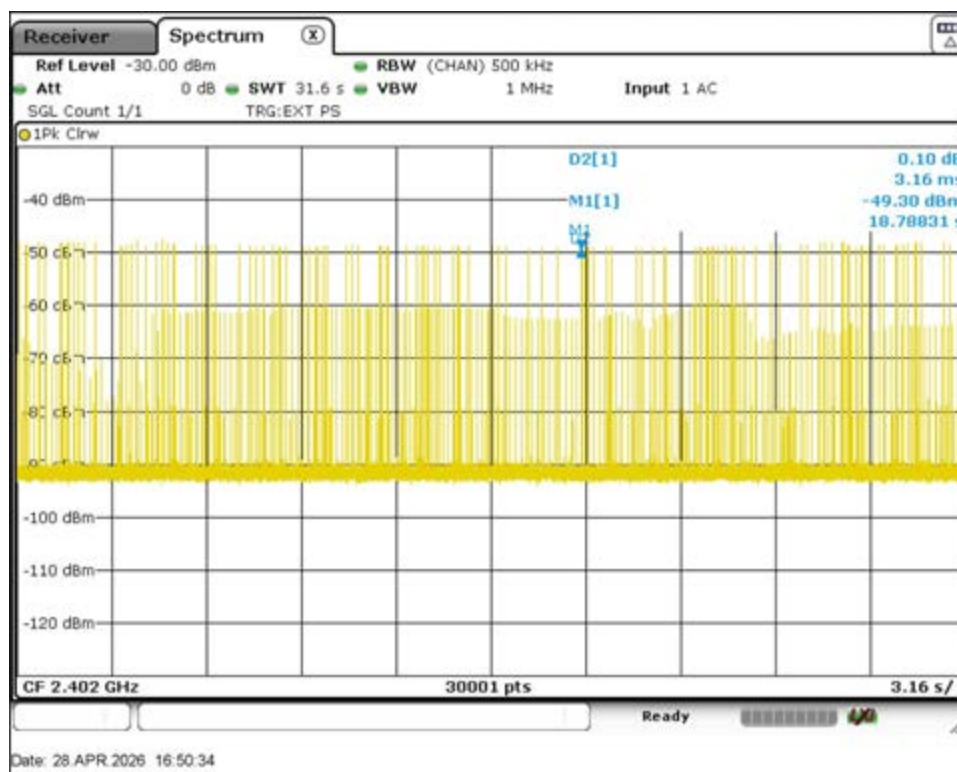
Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (FHSS) Active Port = 1

Modulation = BT (Pi/4 DQPSK 2-DH5)

Images:





Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Center Frequency	2.40200 GHz	2.40200 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	~ 1.500 MHz
SweepPoints	30001	~ 30001
SweepTime	31.600 s	31.600 s
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	5.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamplifier	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Modulation: BT (8DPSK 3-DH5)

Results

Equipment	Port	NHp	Avg COT (ms)
Frequency Hopping Spread Spectrum systems (FHSS)	1	84	265.440

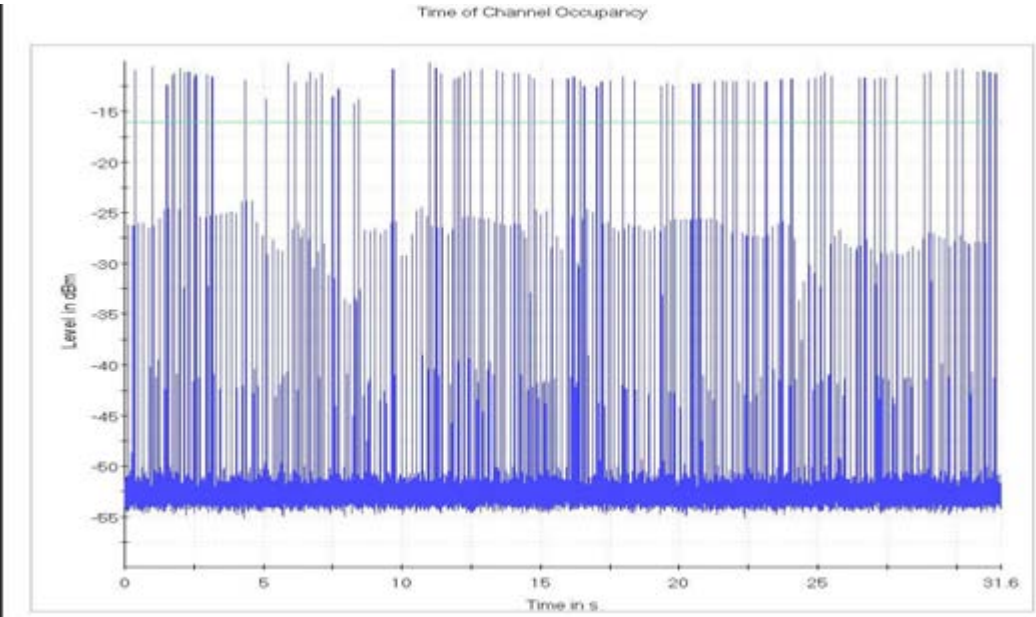
Verdict

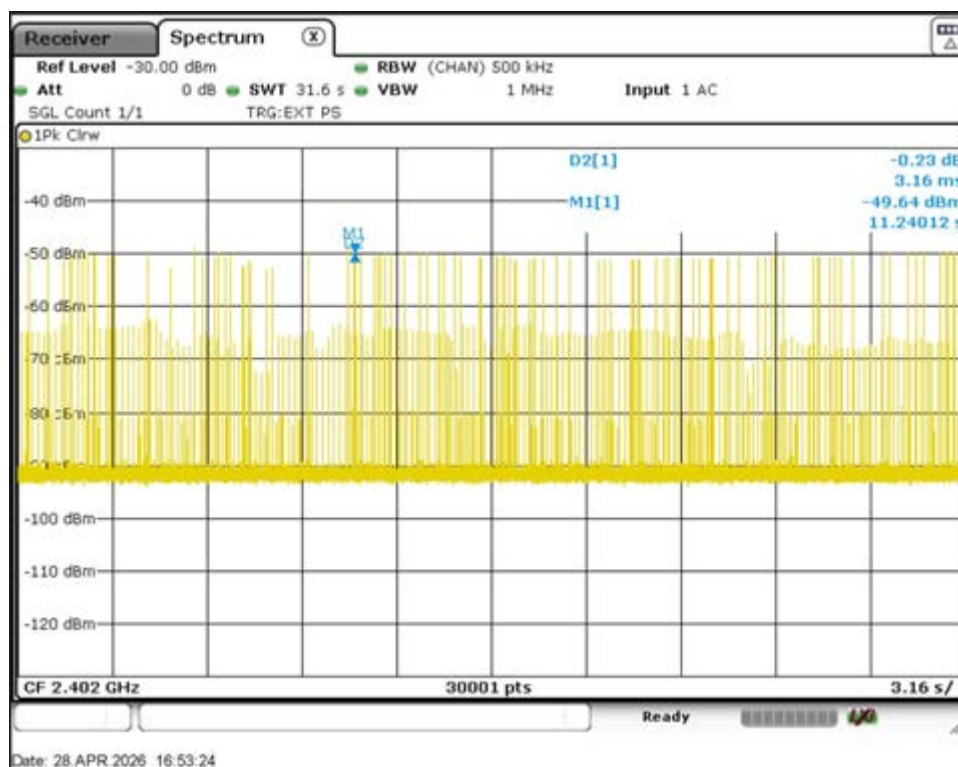
Pass

Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (FHSS) Active Port = 1
Modulation = BT (8DPSK 3-DH5)

Images:





Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Center Frequency	2.40200 GHz	2.40200 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	~ 1.500 MHz
SweepPoints	30001	~ 30001
SweepTime	31.600 s	31.600 s
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	5.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

RSS-247 6.2.3.1 (b) / FCC 15.247 (a) (1) (iii) [NHC] Number of hopping channels

Limits

USA FCC Part 15.407 (11-18-2024):

FCC 15.247:

(a) Operation under the provisions of this Section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions.

(1) Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

(iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

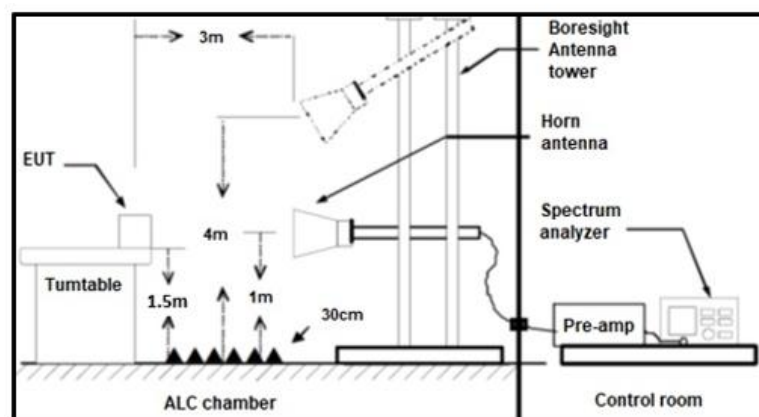
CANADA RSS-247 Issue 4 (July 2025):

6.2.3.1 Bandwidth and hopping channels

The following bandwidth and hopping channel requirements shall apply:

- b. FHS operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels. The average time of occupancy on any channel shall not be greater than 0.4 s within a period of 0.4 s, multiplied by the number of hopping channels employed. Transmissions on particular hopping frequencies may be avoided or suppressed provided that at least 15 hopping channels are used.

TEST SETUP:



Modulation: BT (GFSK 1-DH5)

Results

Equipment	Port	NHC
Frequency Hopping Spread Spectrum systems (DSS)	1	79

Verdict

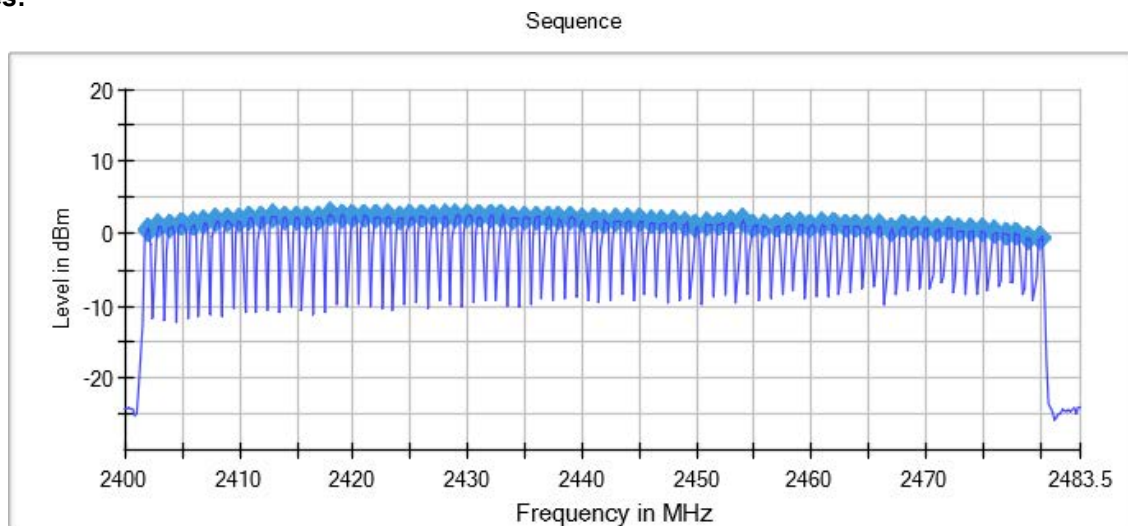
Pass

Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS) Active Port = 1

Modulation = BT (GFSK 1-DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	200.000 kHz	<= 299.000 kHz
VBW	200.000 kHz	>= 200.000 kHz
SweepPoints	418	~ 418
Sweeptime	47.405 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	47 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.09 dB	0.50 dB

Modulation: BT (Pi/4 DQPSK 2-DH5)

Results

Equipment	Port	NHC
Frequency Hopping Spread Spectrum systems (DSS)	1	79

Verdict

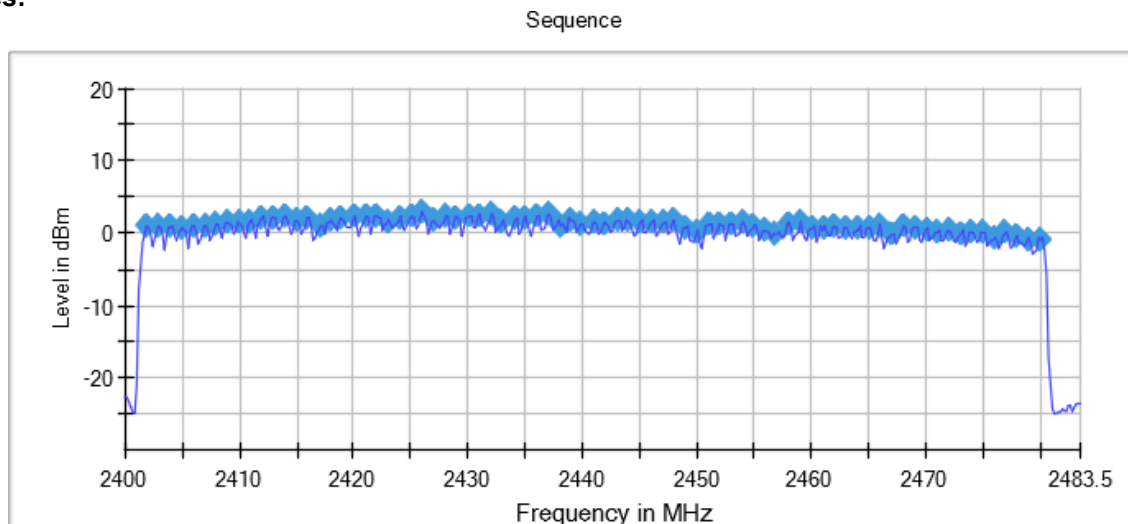
Pass

Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS) Active Port = 1

Modulation = BT (Pi/4 DQPSK 2-DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	200.000 kHz	<= 299.000 kHz
VBW	200.000 kHz	>= 200.000 kHz
SweepPoints	418	~ 418
SweepTime	47.405 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	111 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.19 dB	0.50 dB

Modulation: BT (8DPSK 3-DH5)

Results

Equipment	Port	NHC
Frequency Hopping Spread Spectrum systems (DSS)	1	79

Verdict

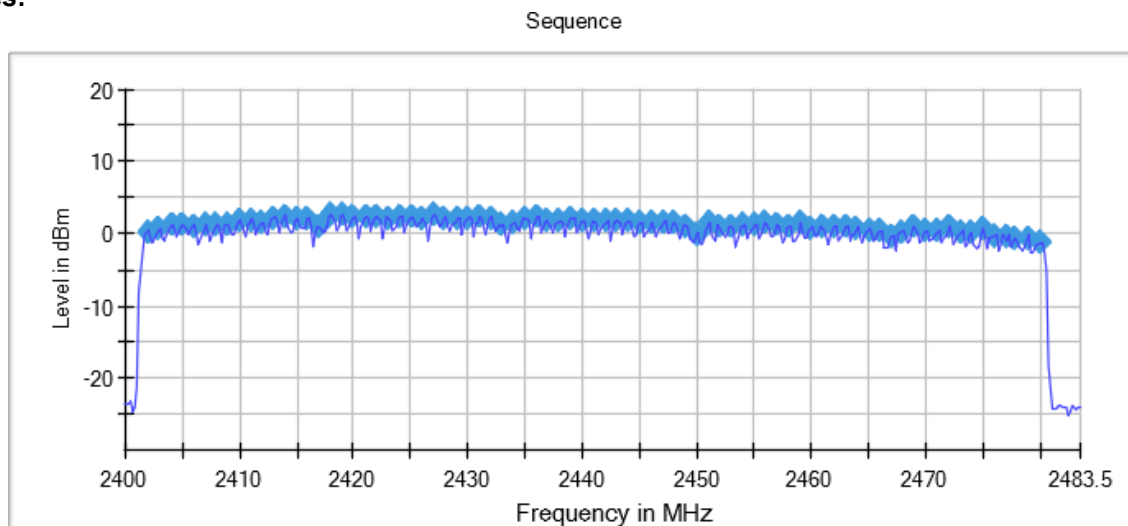
Pass

Attachments

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS) Active Port = 1

Modulation = BT (8DPSK 3-DH5)

Images:



Tables:

Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	200.000 kHz	<= 299.000 kHz
VBW	200.000 kHz	>= 200.000 kHz
SweepPoints	418	~ 418
Sweeptime	47.405 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	104 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.05 dB	0.50 dB

RSS-247 6.3.1 (a) / FCC 15.247 (a) (2) [6dBw] 6 dB Bandwidth

Limits

USA FCC Part 15.407 (11-18-2024):

FCC 15.247:

(a) Operation under the provisions of this Section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions.

(2) Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

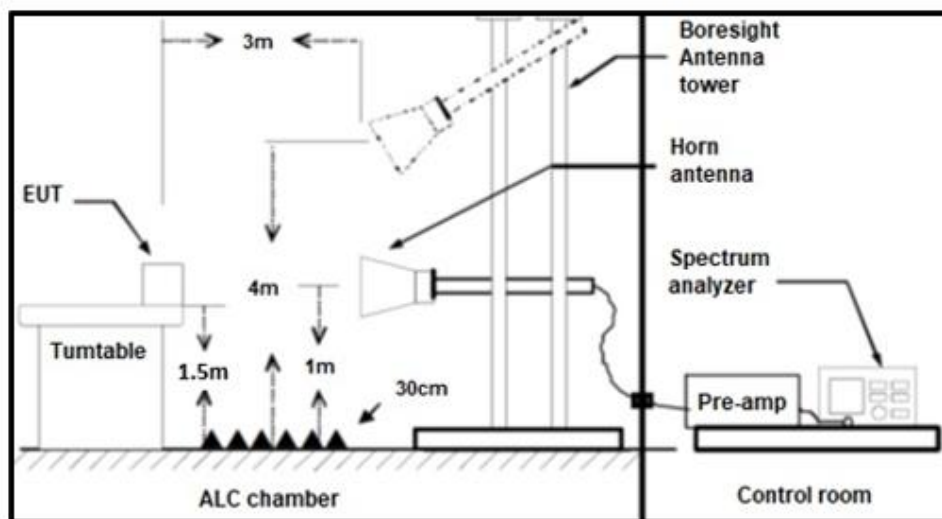
CANADA RSS-247 Issue 4 (July 2025):

6.3.1 Bandwidth and conducted power spectral density

The following applies to the bands 902-928 MHz and 2400-2483.5 MHz:

- a. the minimum 6 dB bandwidth shall be 500 kHz.

TEST SETUP:



Modulation: BTLE 5.0 (GFSK 1 Mbit/s)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Ebw (MHz)
[2400, 2483.5]	Digital Transmission System (DTS)	2402.00000	1	0.673
		2440.00000		0.673
		2480.00000		0.673

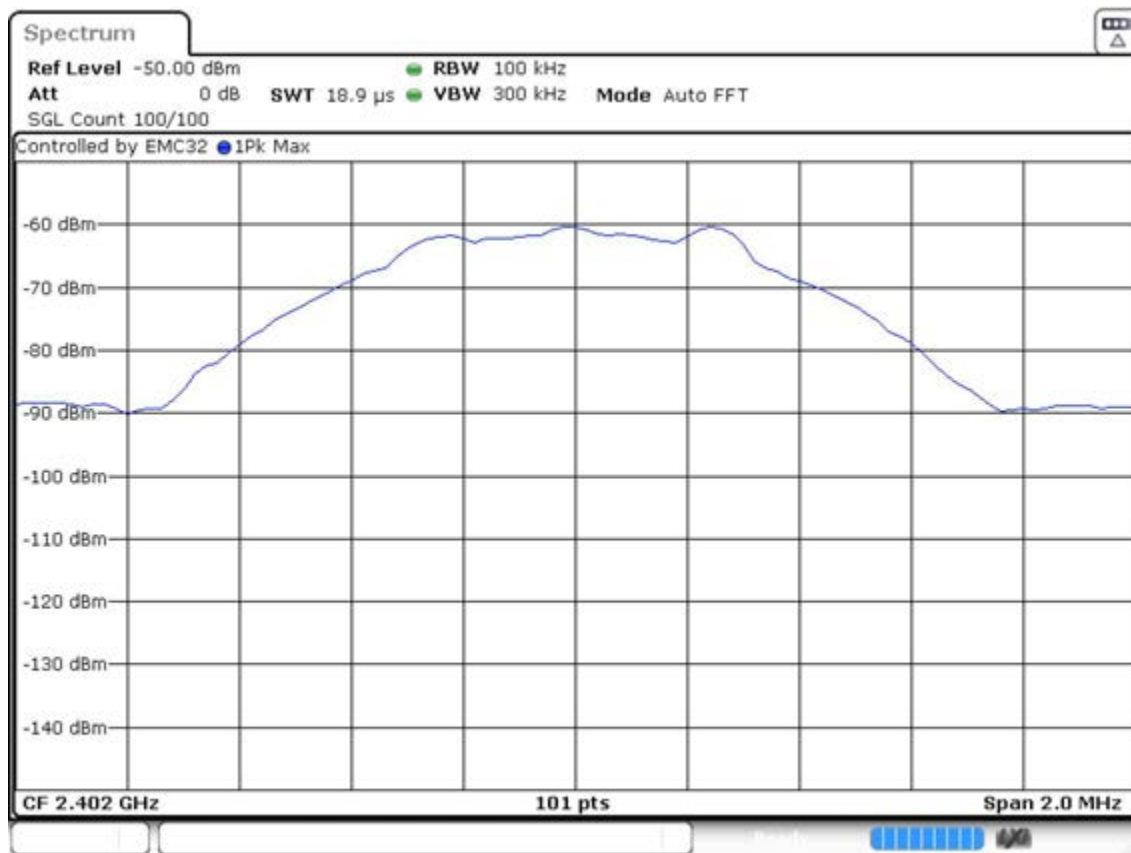
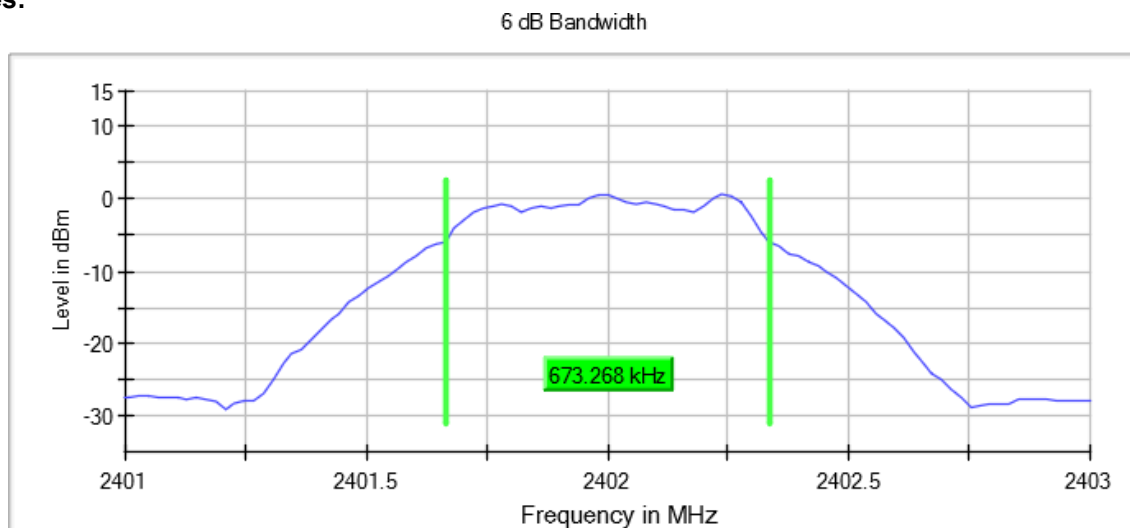
Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2402.00000 Active Port = 1
Modulation = BTLE 5.0 (GFSK 1 Mbit/s)

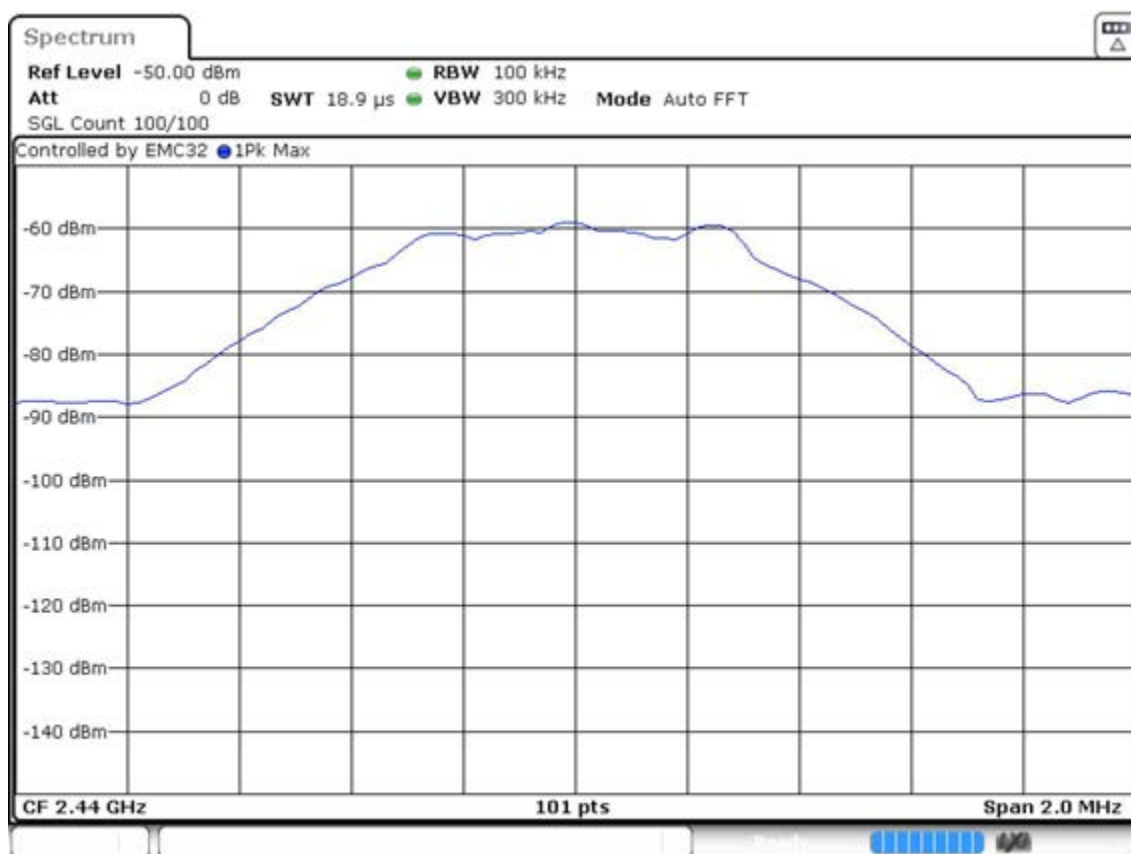
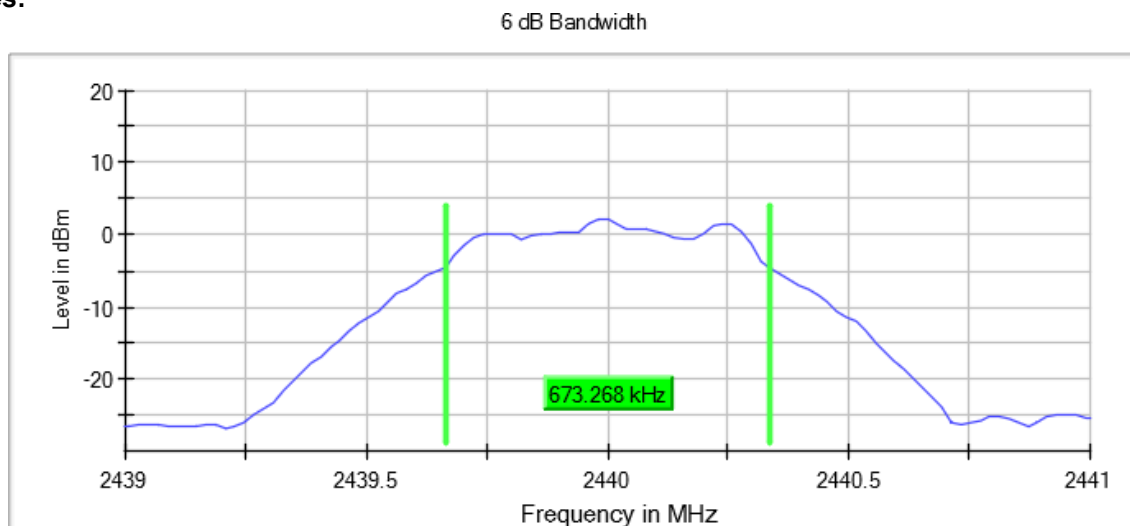
Images:



Date: 27.APR.2026 10:50:58

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2440.00000 Active Port = 1
Modulation = BTLE 5.0 (GFSK 1 Mbit/s)

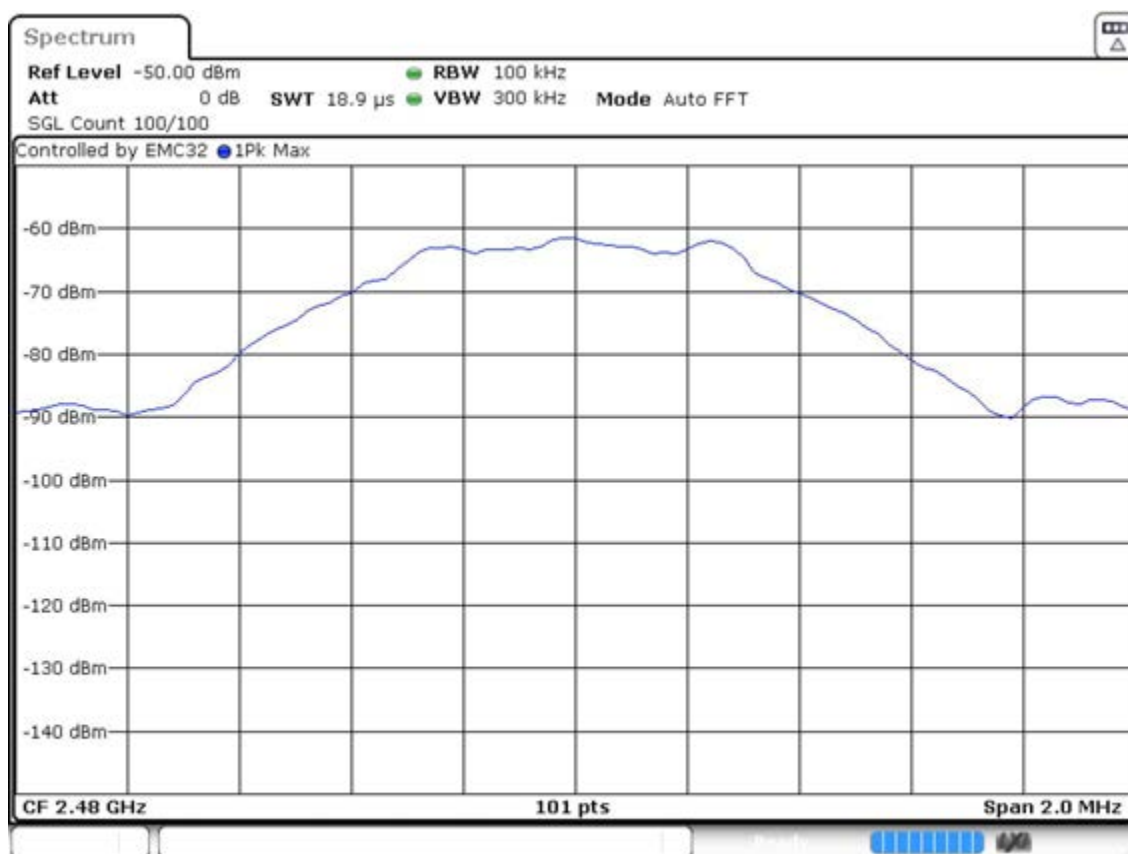
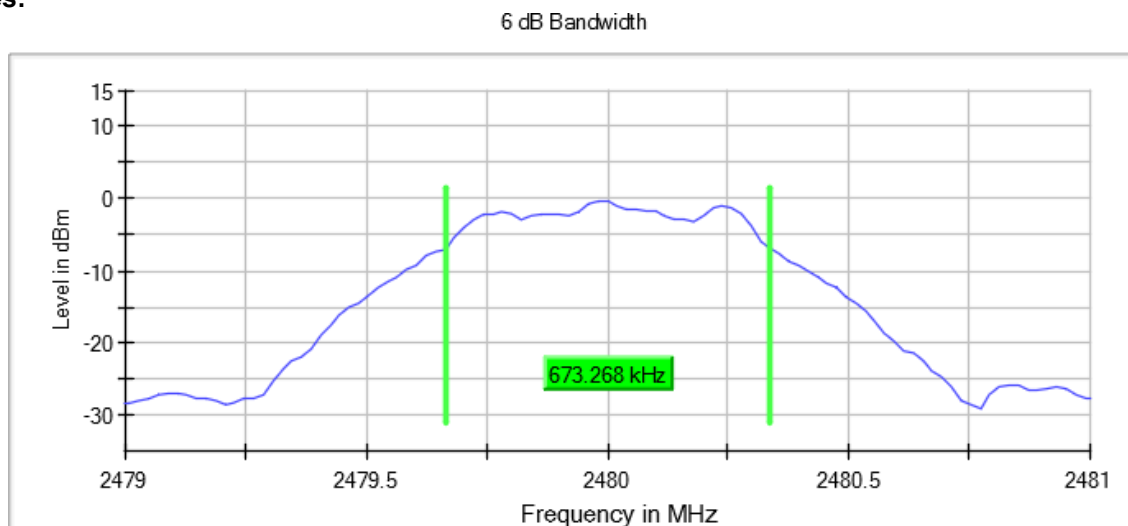
Images:



Date: 27 APR 2026 11:02:53

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2480.00000 Active Port = 1
Modulation = BTLE 5.0 (GFSK 1 Mbit/s)

Images:



Date: 27 APR 2026 11:12:18

Modulation: 802.11b (DSSS 1 Mbit/s)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Ebw (MHz)
[2400, 2483.5]	Digital Transmission System (DTS)	2412.00000	1	10.250
		2437.00000		10.000
		2462.00000		10.000

Verdict

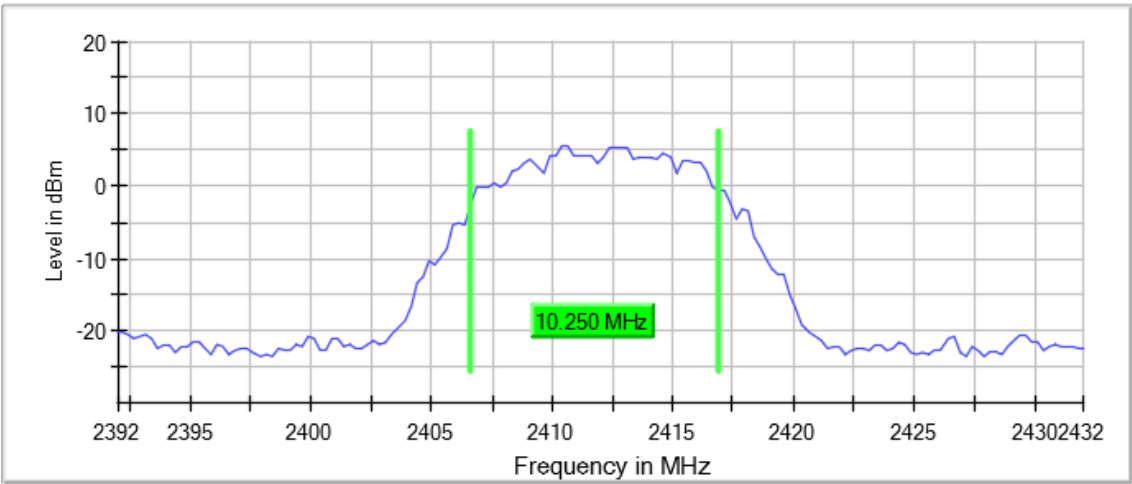
Pass

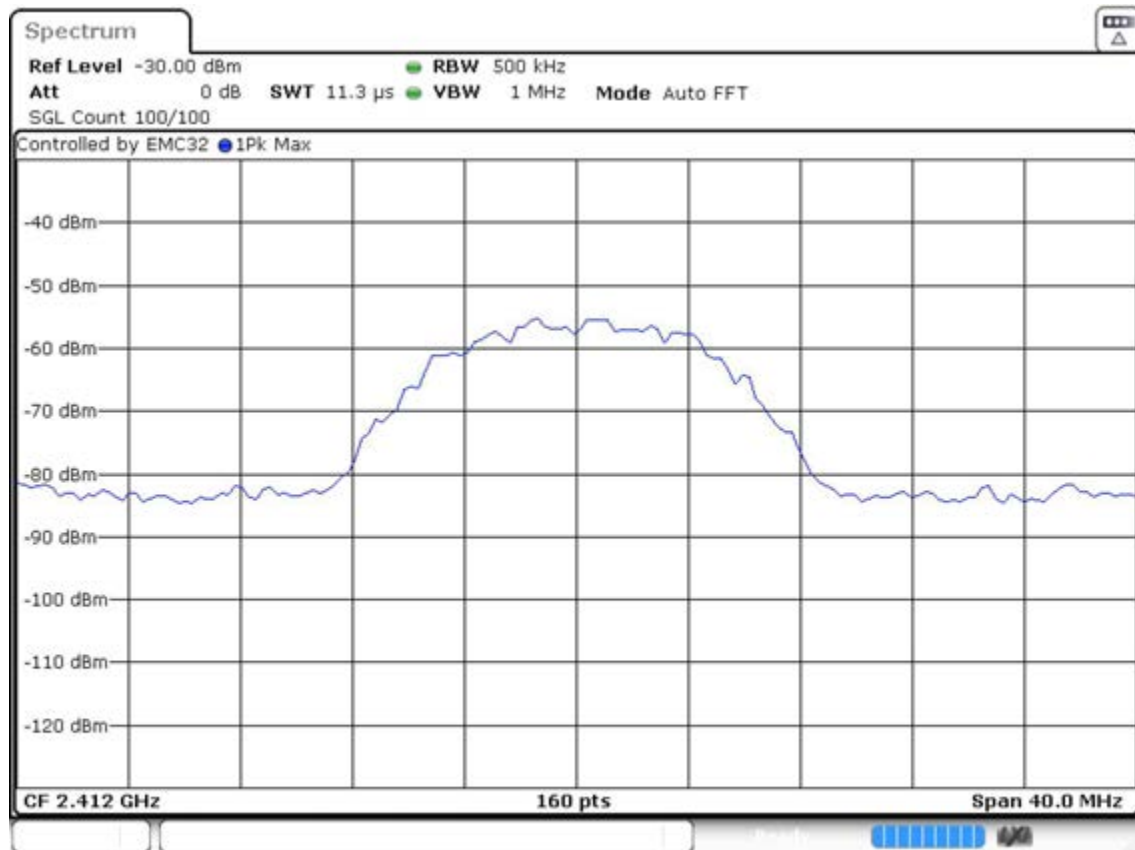
Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
 Frequency MHz = 2412.00000 Active Port = 1
 Modulation = 802.11b (DSSS 1 Mbit/s)

Images:

6 dB Bandwidth





Date: 24.APR.2026 19:10:54

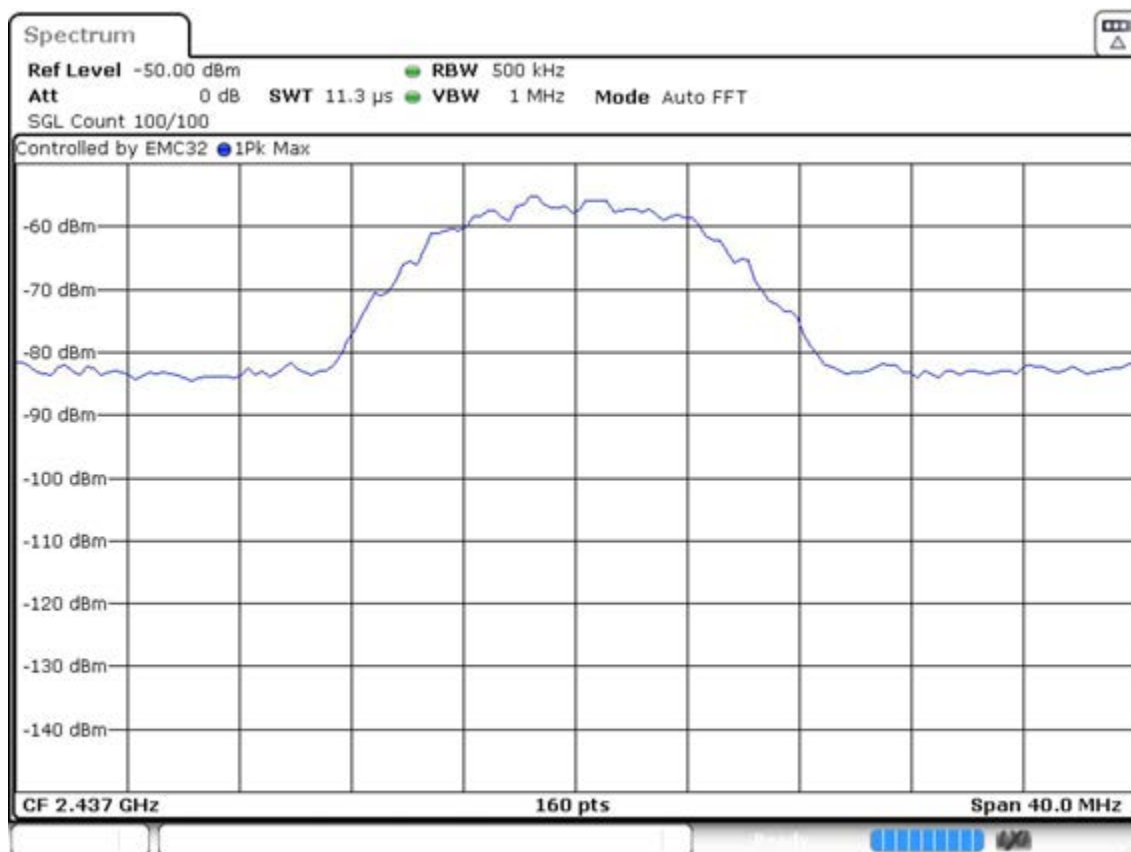
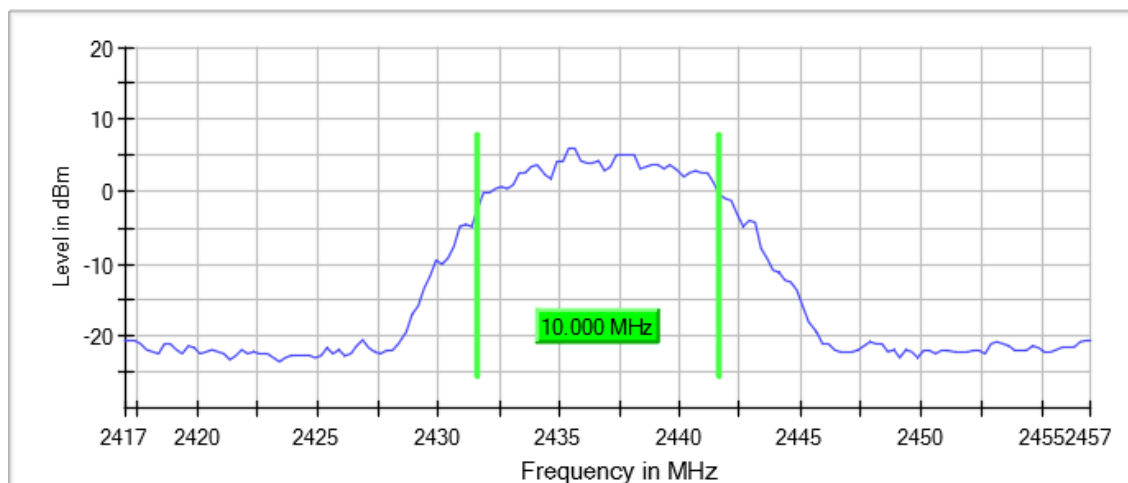
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2437.00000 Active Port = 1

Modulation = 802.11b (DSSS 1 Mbit/s)

Images:

6 dB Bandwidth



Date: 24 APR 2026 19:18:25

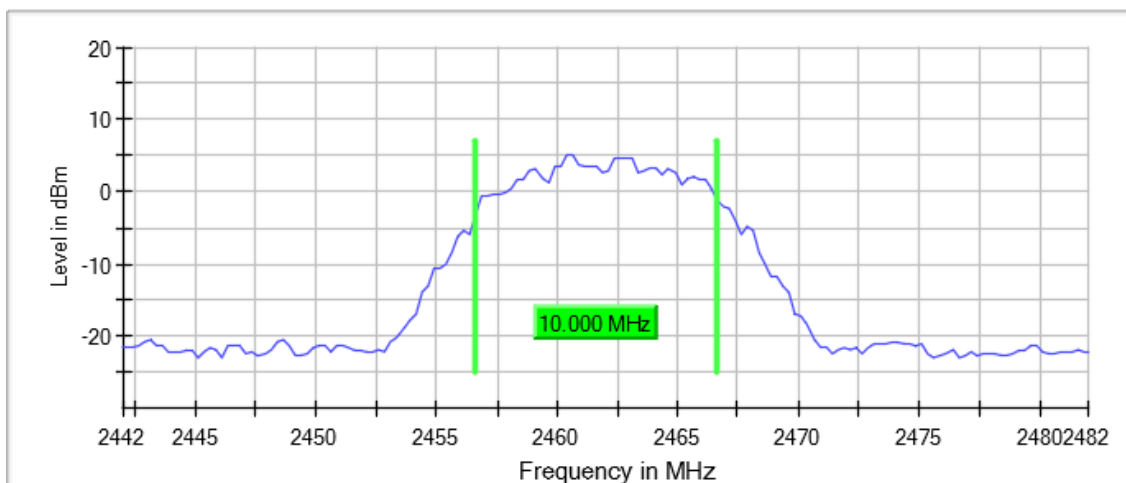
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2462.00000 Active Port = 1

Modulation = 802.11b (DSSS 1 Mbit/s)

Images:

6 dB Bandwidth



Date: 24.APR.2026 19:25:11

Modulation: 802.11g (OFDM 6 Mbit/s)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Ebw (MHz)
[2400, 2483.5]	Digital Transmission System (DTS)	2412.00000	1	16.750
		2437.00000		17.000
		2462.00000		16.750

Verdict

Pass

Attachments

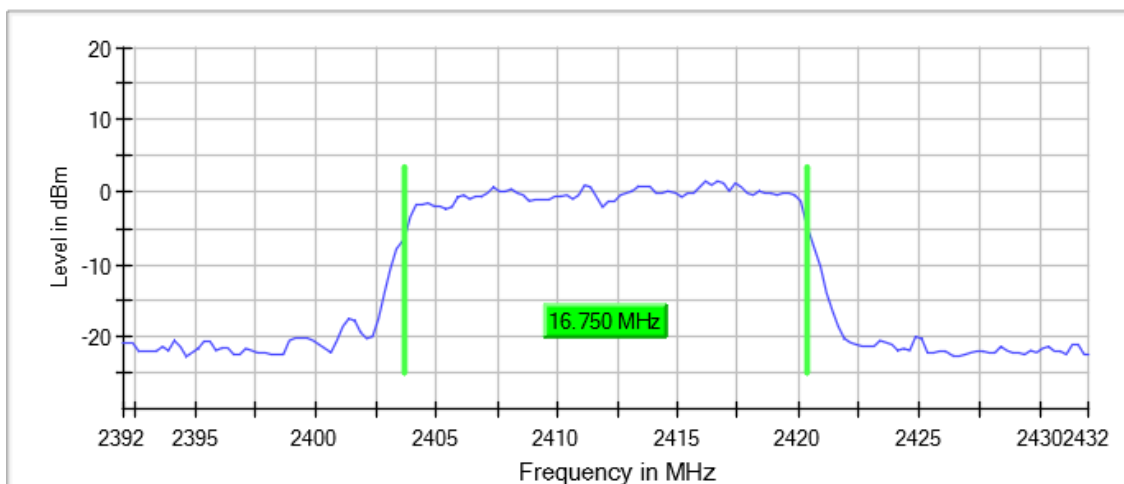
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

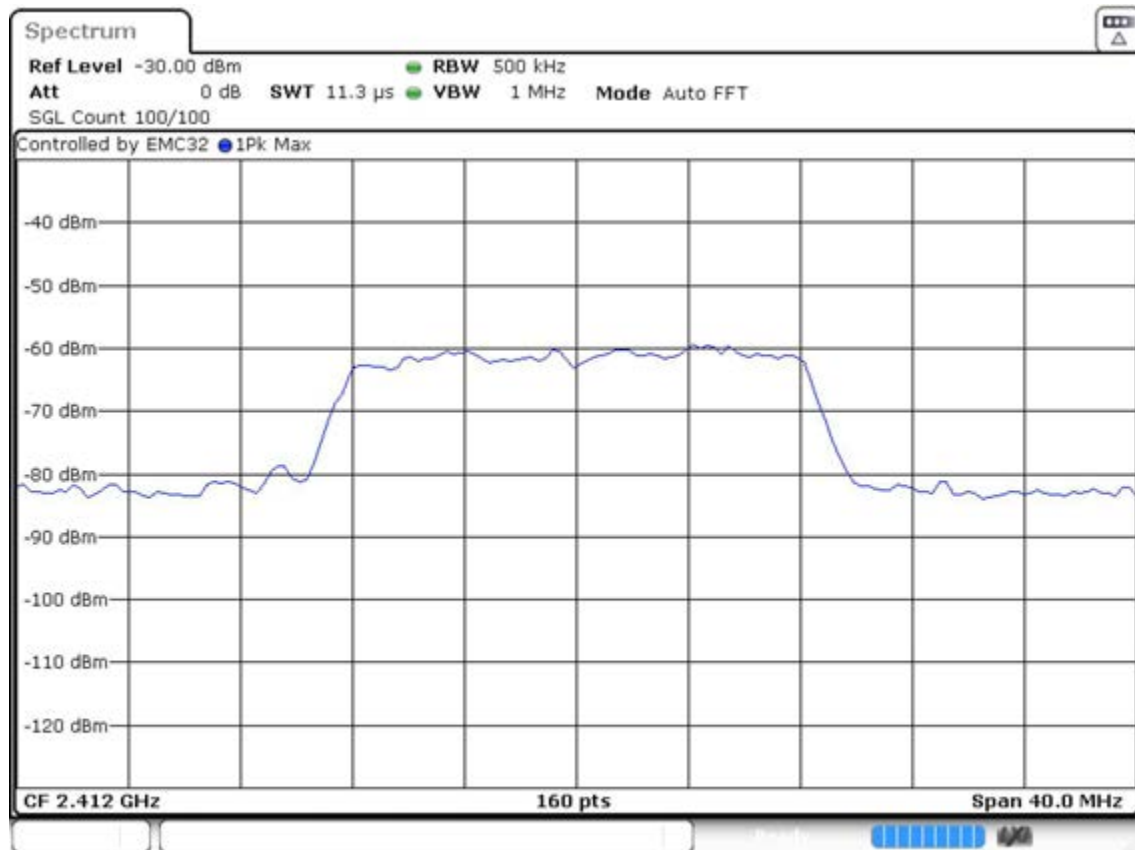
Frequency MHz = 2412.00000 Active Port = 1

Modulation = 802.11g (OFDM 6 Mbit/s)

Images:

6 dB Bandwidth





Date: 24.APR.2026 19:40:46

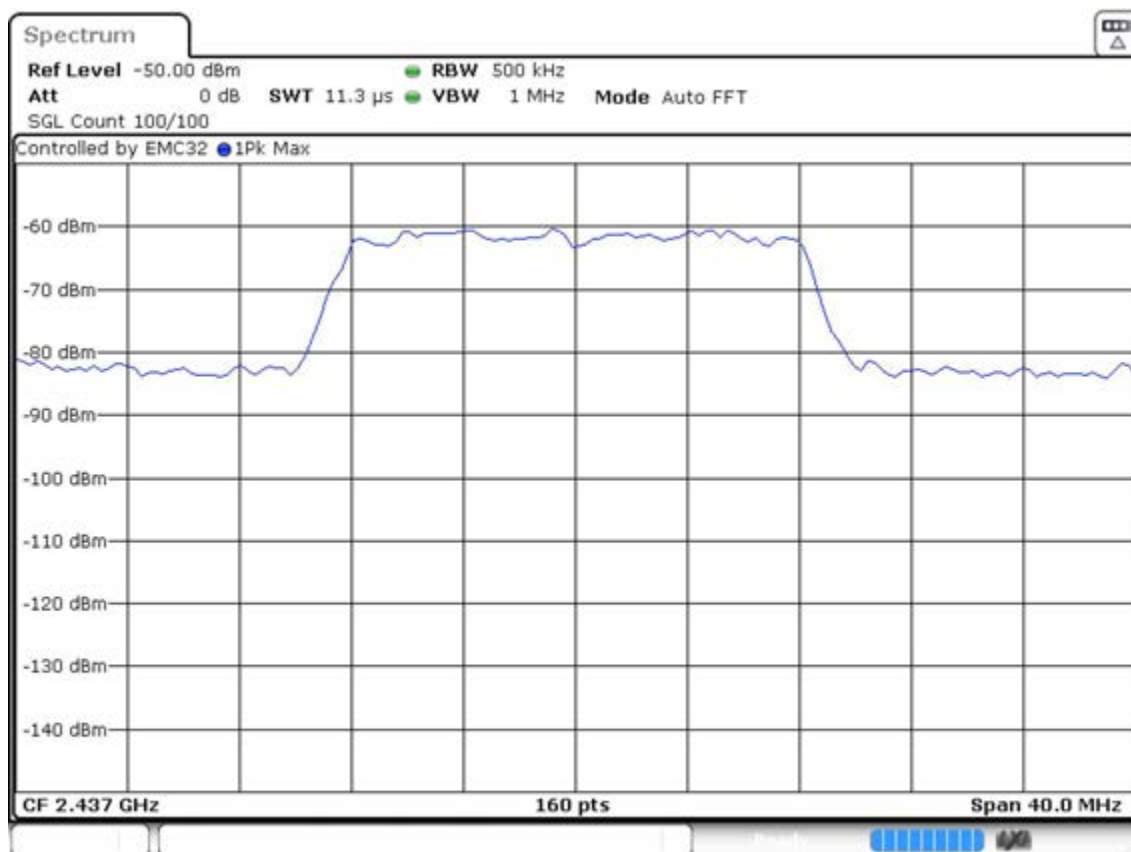
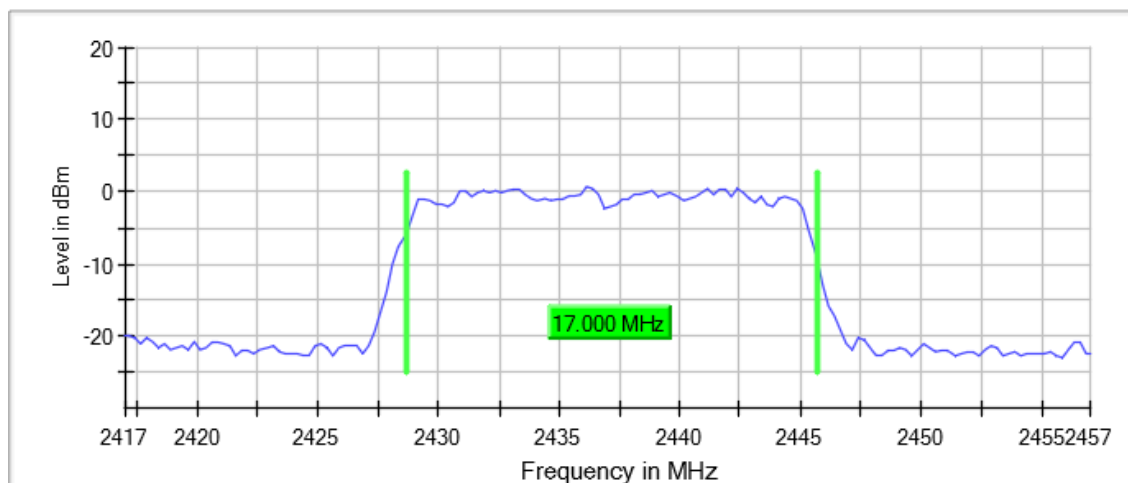
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2437.00000 Active Port = 1

Modulation = 802.11g (OFDM 6 Mbit/s)

Images:

6 dB Bandwidth



Date: 24 APR 2026 19:48:00

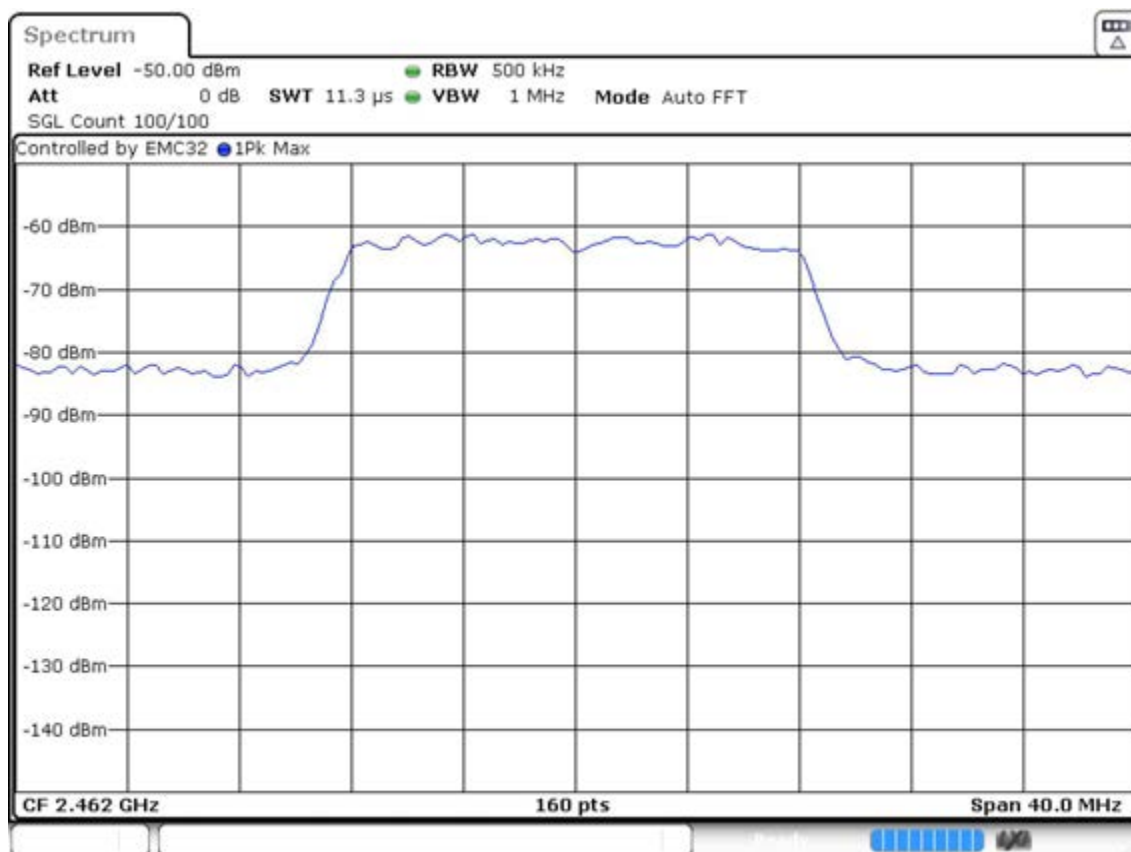
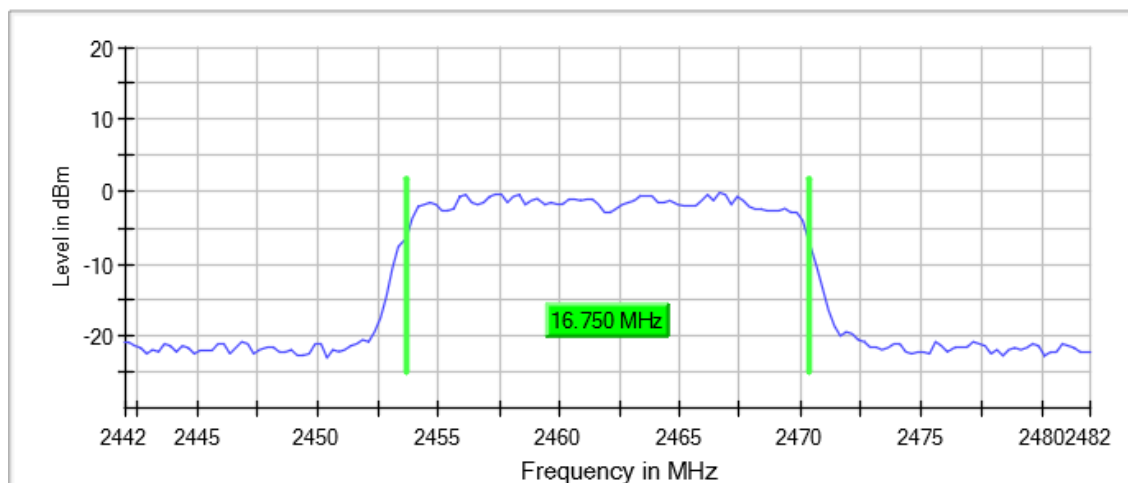
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2462.00000 Active Port = 1

Modulation = 802.11g (OFDM 6 Mbit/s)

Images:

6 dB Bandwidth



Modulation: 802.11n HT20 (OFDM MCS0)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Ebw (MHz)
[2400, 2483.5]	Digital Transmission System (DTS)	2412.00000	1	17.750
		2437.00000		17.750
		2462.00000		17.750

Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5]

Equipment Type = Digital Transmission System (DTS)

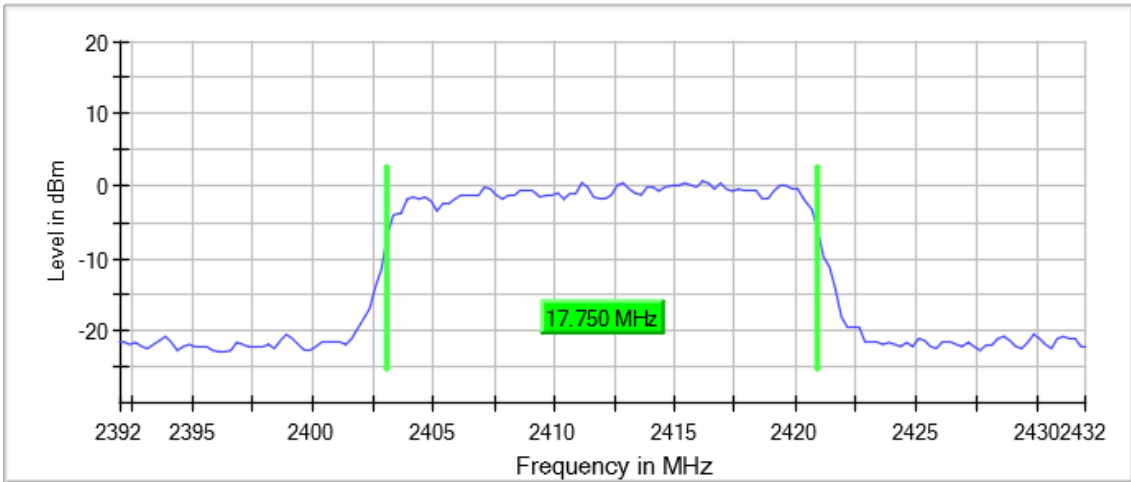
Frequency MHz = 2412.00000

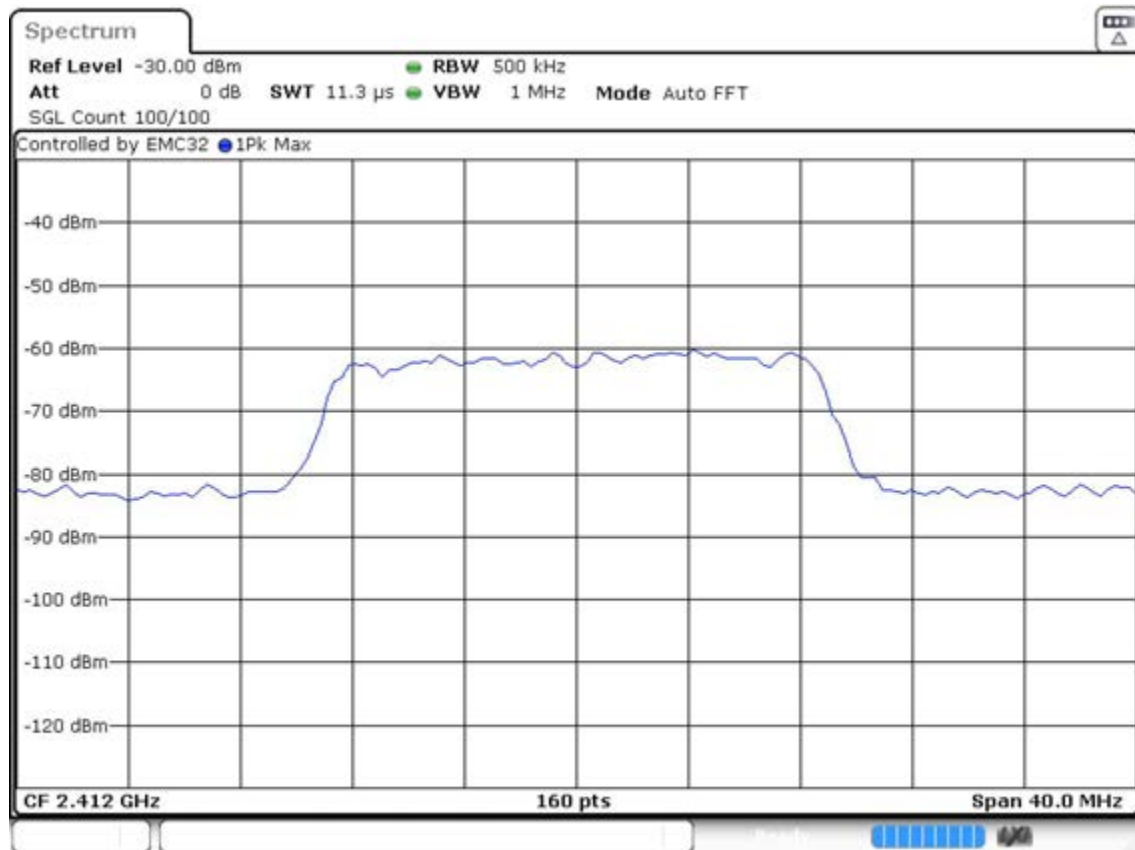
Active Port = 1

Modulation = 802.11n HT20 (OFDM MCS0)

Images:

6 dB Bandwidth





Date: 24.APR.2026 20:05:14

Operation Band MHz = [2400, 2483.5]

Equipment Type = Digital Transmission System (DTS)

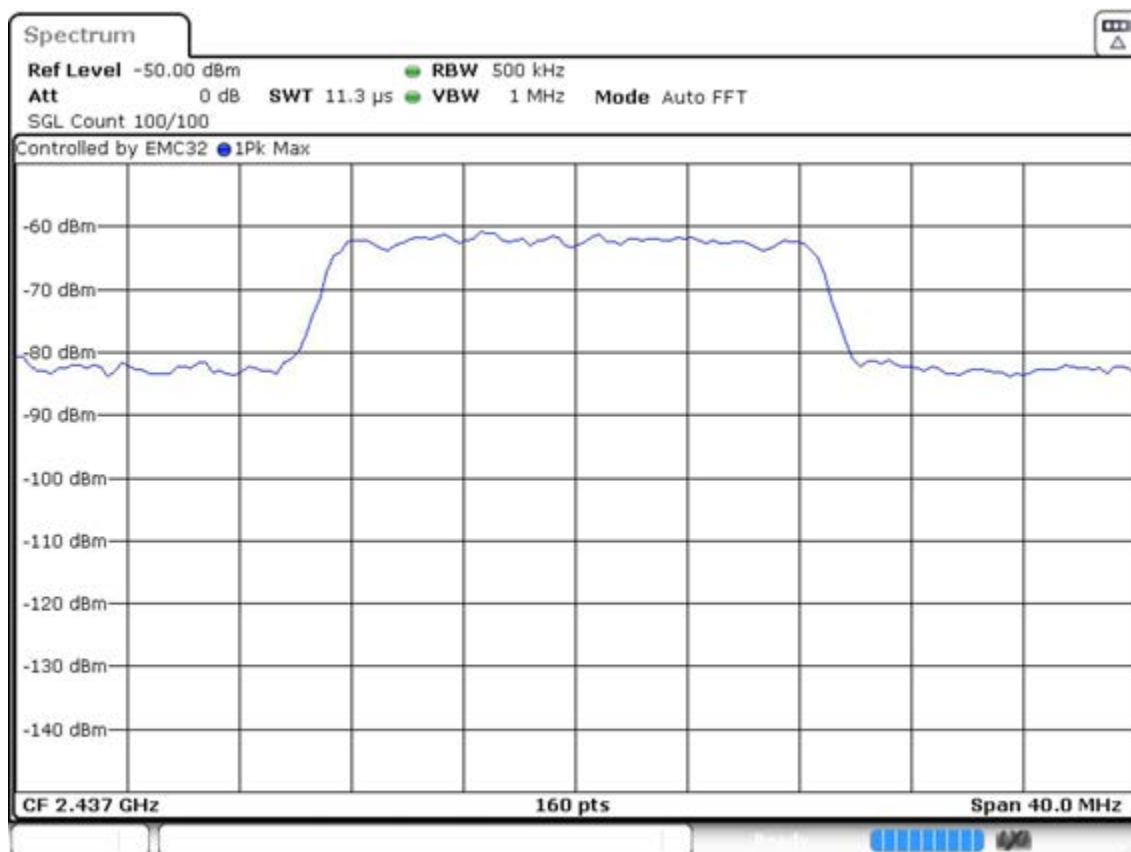
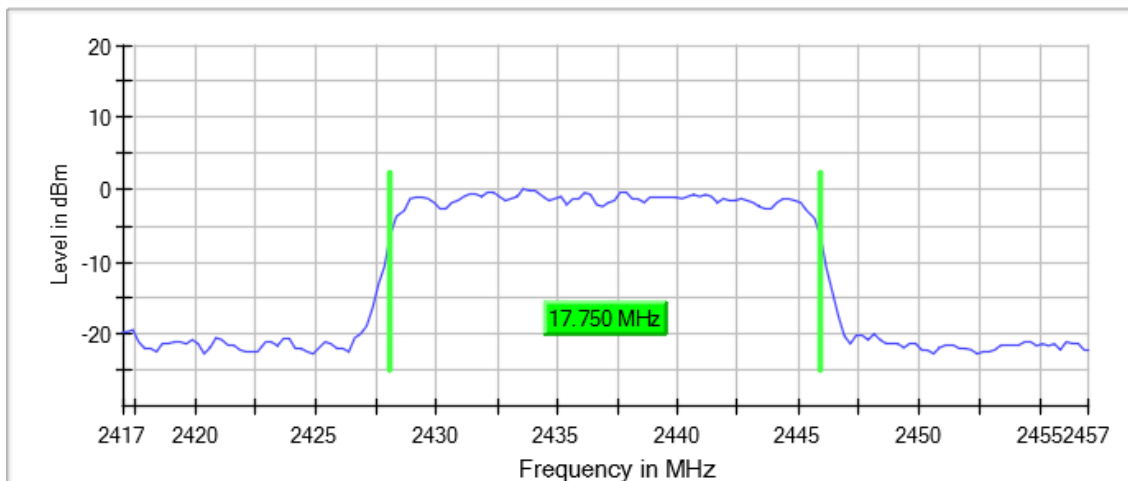
Frequency MHz = 2437.00000

Active Port = 1

Modulation = 802.11n HT20 (OFDM MCS0)

Images:

6 dB Bandwidth



Date: 24.APR.2026 20:14:27

Operation Band MHz = [2400, 2483.5]

Equipment Type = Digital Transmission System (DTS)

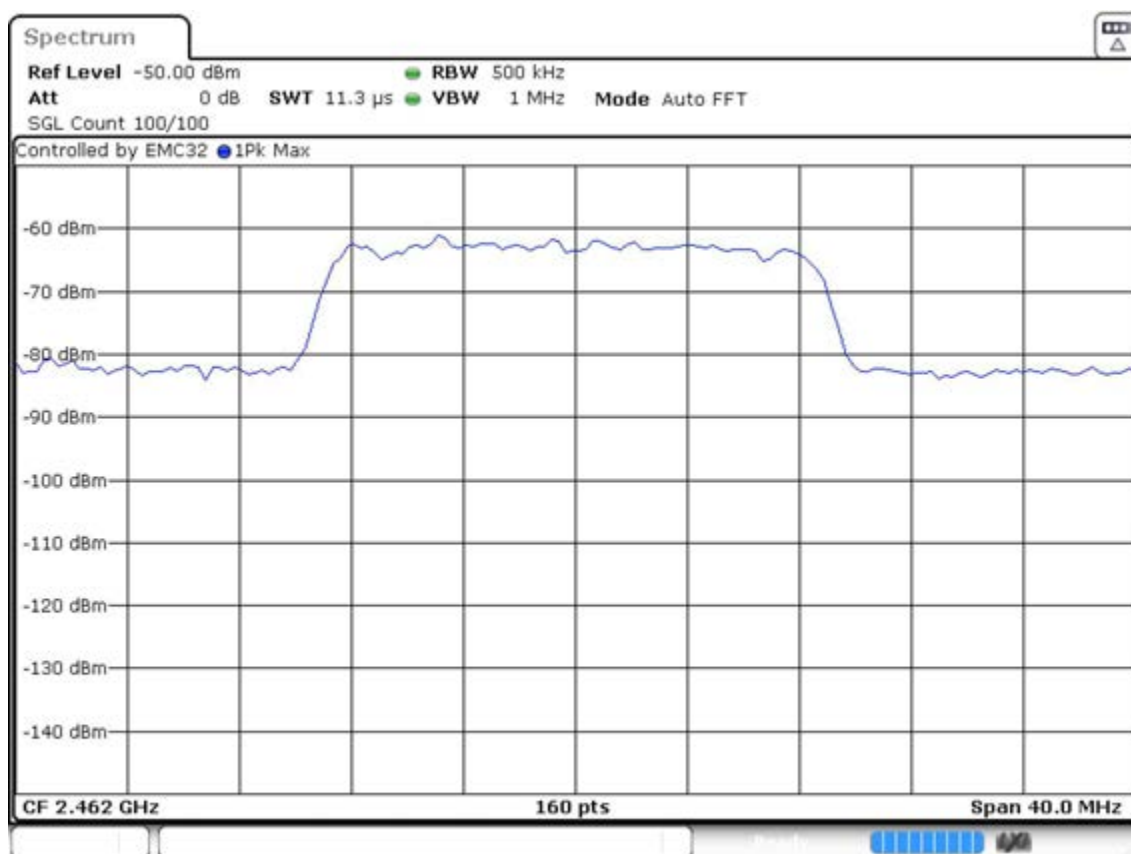
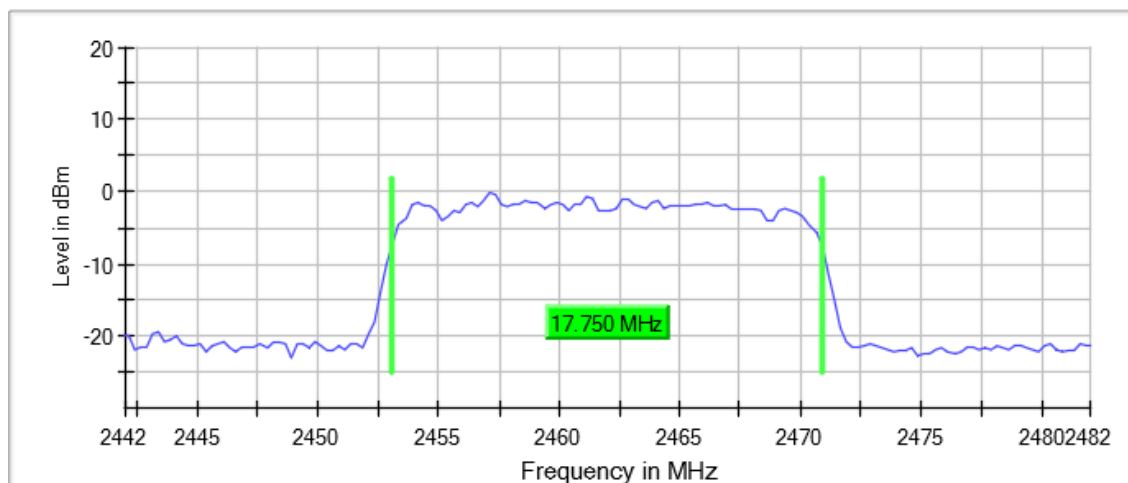
Frequency MHz = 2462.00000

Active Port = 1

Modulation = 802.11n HT20 (OFDM MCS0)

Images:

6 dB Bandwidth



Date: 24.APR.2026 20:21:06

RSS-247 6.3.2 / FCC 15.247 (b) [Pkcp] Maximum Peak Conducted Output Power

Limits

USA FCC Part 15.407 (11-18-2024):

FCC 15.247:

(b) The maximum peak conducted output power of the intentional radiator shall not exceed the following.

(1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

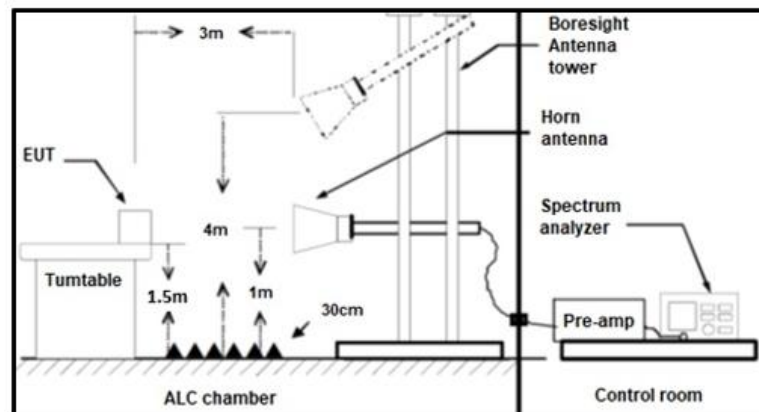
CANADA RSS-247 Issue 4 (July 2025):

6.3.2 Transmitter output power and e.i.r.p. requirements

For DTS operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W, and the e.i.r.p. shall not exceed 4 W, except as provided in section 6.5 a) and b).

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power.

TEST SETUP:



Maximum declared antenna gain : 3.76 dBi

Power Directional Gain: = Antenna gain + $10\log(N_{ANT})$

Modulation: BT (GFSK 1-DH5)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	E.I.R.P. (dBm)
[2400, 2483.5]	Frequency Hopping Spread Spectrum systems (DSS)	2402.00000	1	3.67
		2441.00000		2.97
		2480.00000		3.87

Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)

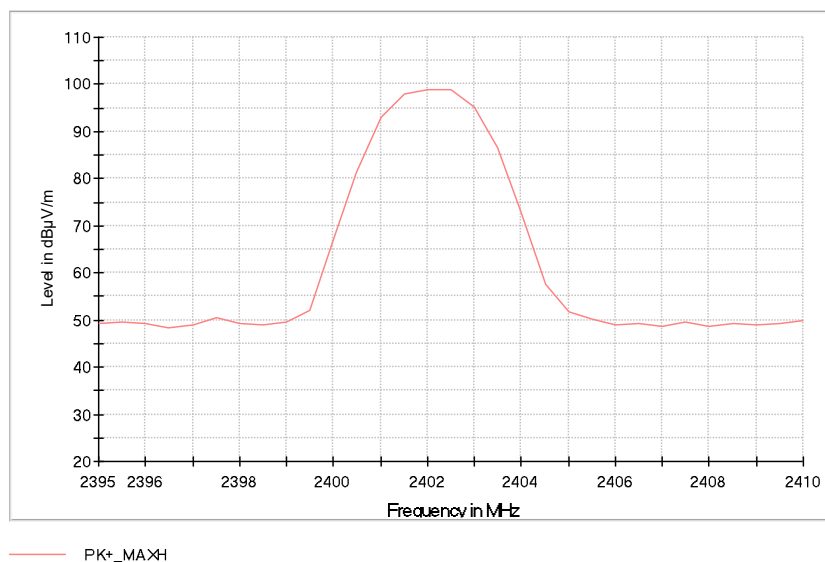
Frequency MHz = 2402.00000

Active Port = 1

Modulation = BT (GFSK 1-DH5)

Images:

Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF



Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

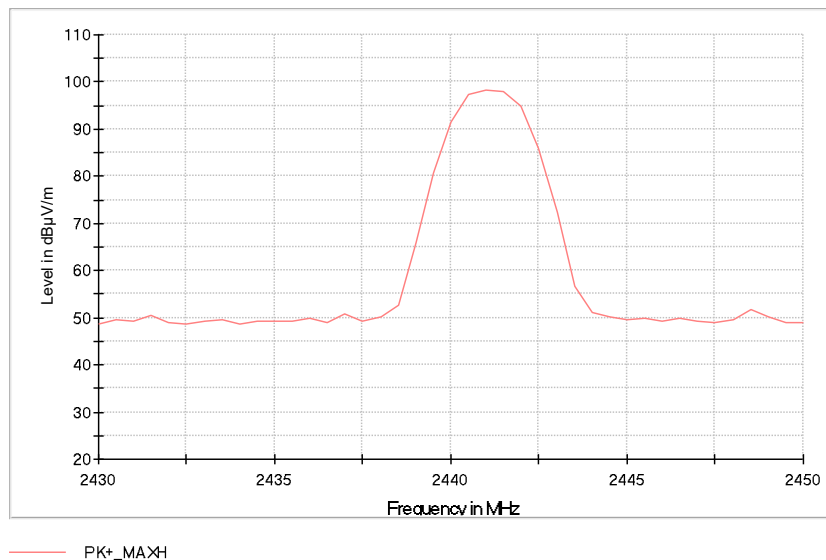
Frequency MHz = 2441.00000

Active Port = 1

Modulation = BT (GFSK 1-DH5)

Images:

Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF



Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

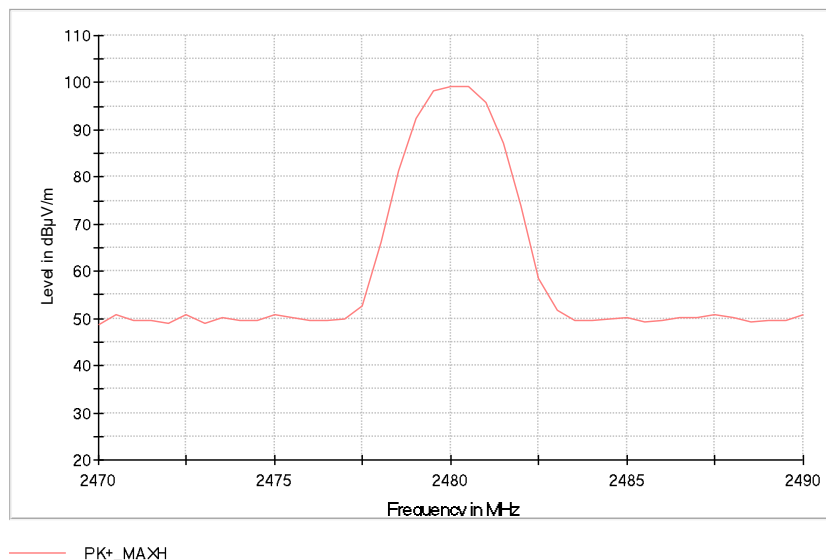
Frequency MHz = 2480.00000

Active Port = 1

Modulation = BT (GFSK 1-DH5)

Images:

Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF



Modulation: BT (Pi/4 DQPSK 2-DH5)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	E.I.R.P. (dBm)
[2400, 2483.5]	Frequency Hopping Spread Spectrum systems (DSS)	2402.00000	1	4.17
		2441.00000		2.87
		2480.00000		4.17

Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)

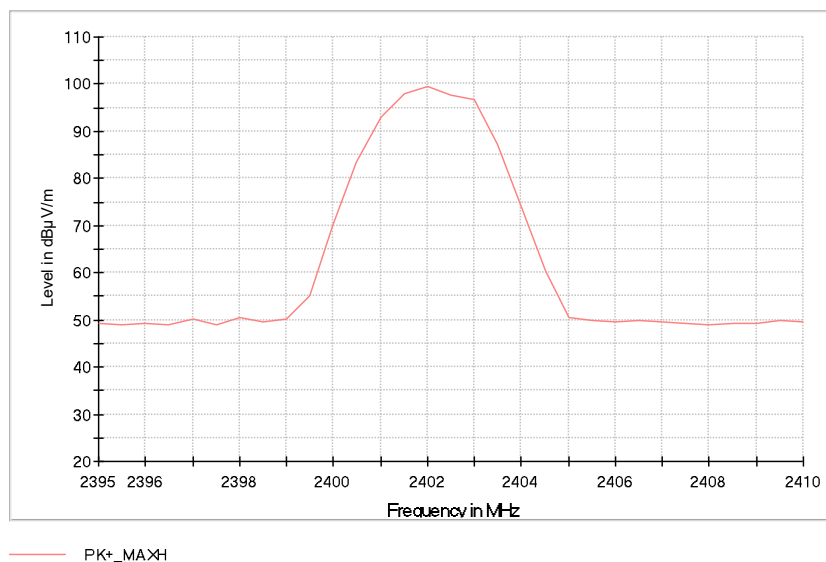
Frequency MHz = 2402.00000

Active Port = 1

Modulation = BT (Pi/4 DQPSK 2-DH5)

Images:

Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF



Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

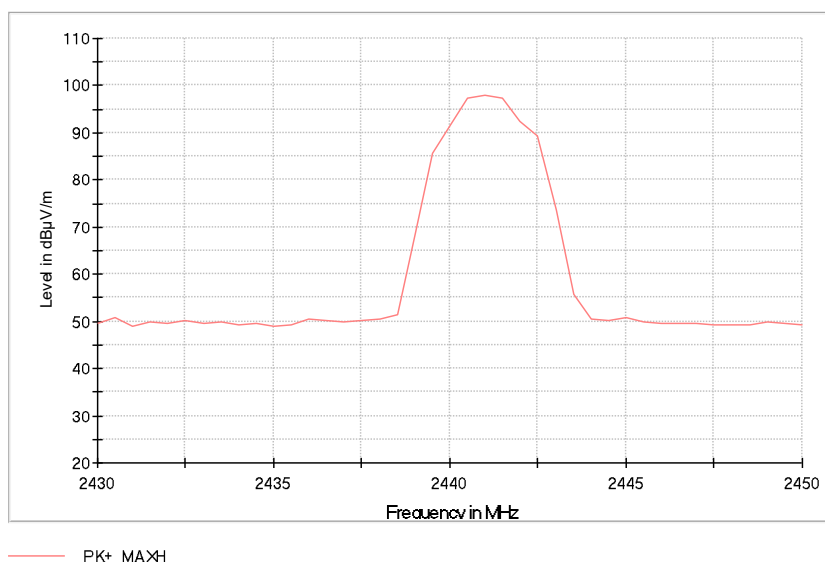
Frequency MHz = 2441.00000

Active Port = 1

Modulation = BT (Pi/4 DQPSK 2-
DH5)

Images:

Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF



Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

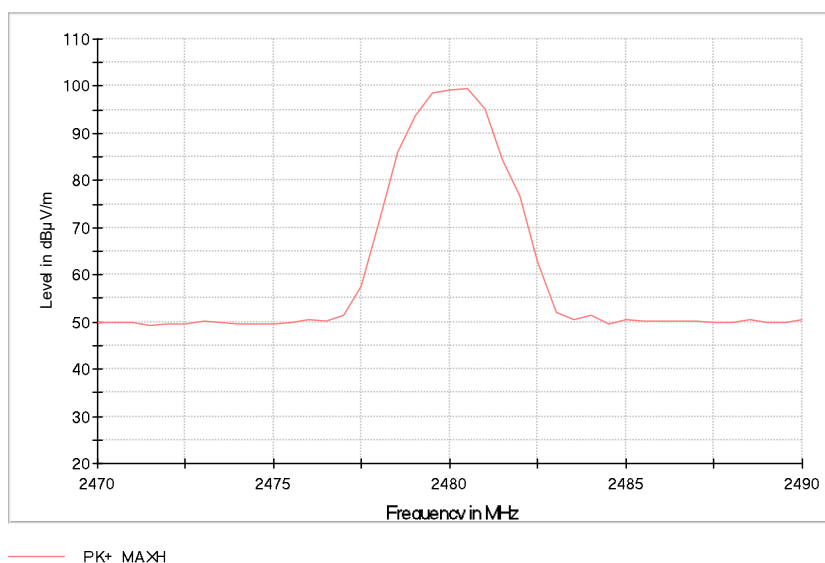
Frequency MHz = 2480.00000

Active Port = 1

Modulation = BT (Pi/4 DQPSK 2-
DH5)

Images:

Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF



Modulation: BT (8DPSK 3-DH5)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	E.I.R.P. (dBm)
[2400, 2483.5]	Frequency Hopping Spread Spectrum systems (DSS)	2402.00000	1	3.27
		2441.00000		1.27
		2480.00000		4.07

Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems (DSS)

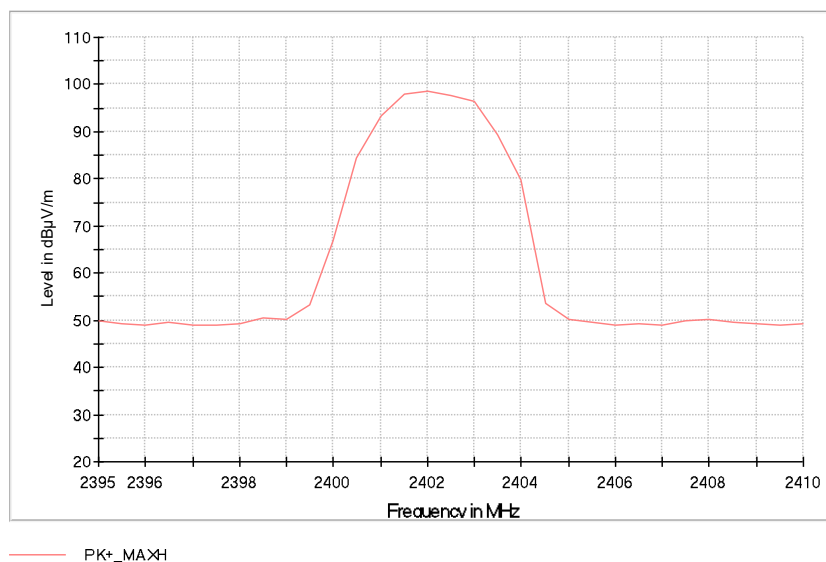
Frequency MHz = 2402.00000

Active Port = 1

Modulation = BT (8DPSK 3-DH5)

Images:

Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF



Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

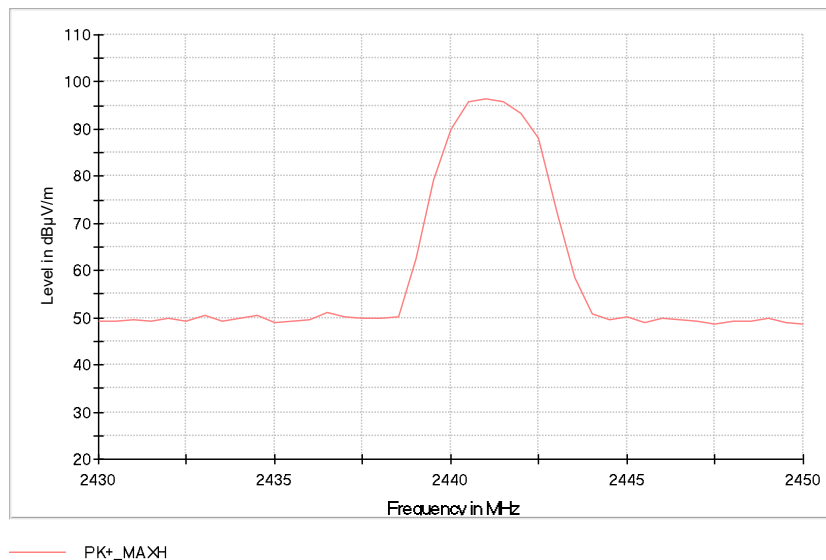
Frequency MHz = 2441.00000

Active Port = 1

Modulation = BT (8DPSK 3-DH5)

Images:

Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF



Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

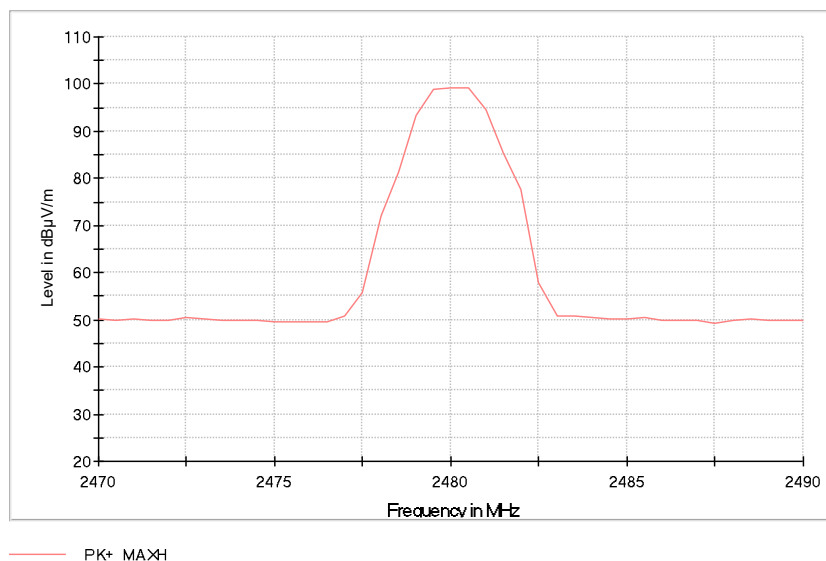
Frequency MHz = 2480.00000

Active Port = 1

Modulation = BT (8DPSK 3-DH5)

Images:

Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF



Modulation: BTLE 5.0 (GFSK 1 Mbit/s)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	E.I.R.P. (dBm)
[2400, 2483.5]	Digital Transmission System (DTS)	2402.00000	1	-0.53
		2440.00000		0.37
		2480.00000		3.87

Verdict

Pass

Attachments

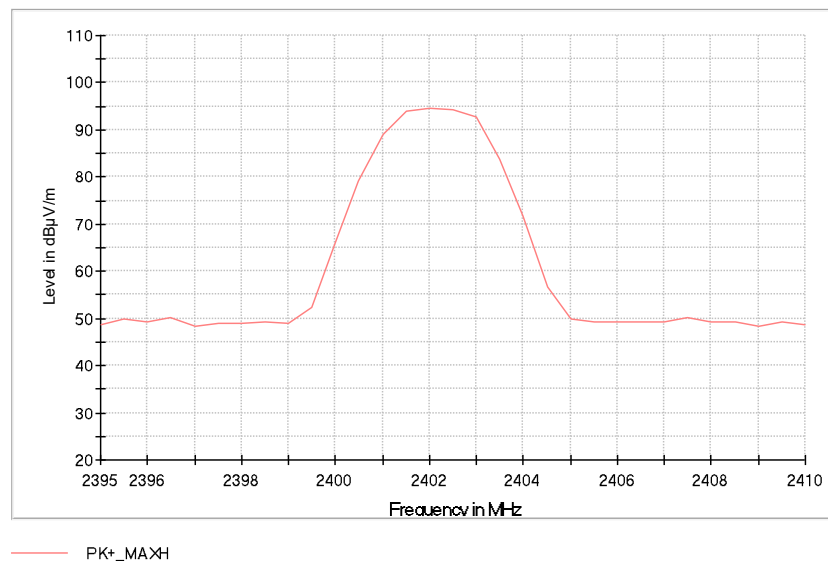
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2402.00000 Active Port = 1

Modulation = BTLE 5.0 (GFSK 1 Mbit/s)

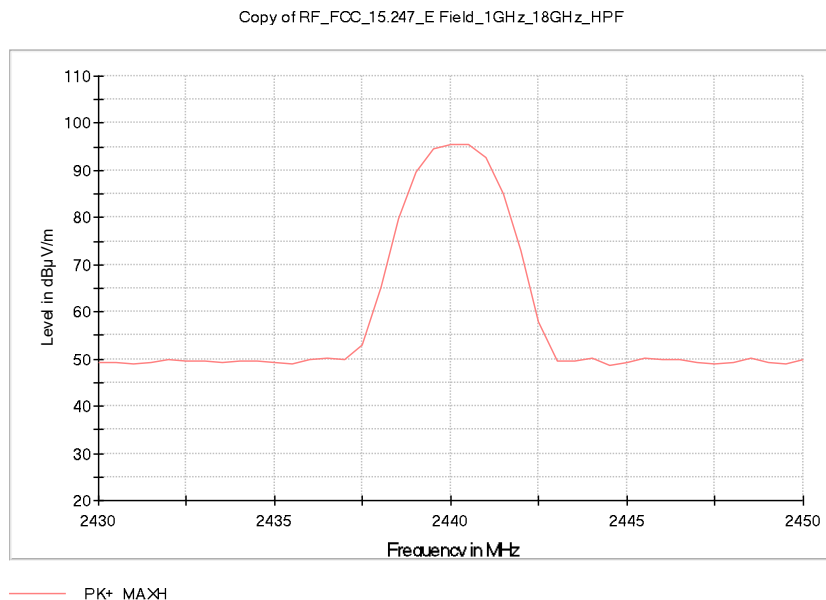
Images:

Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF



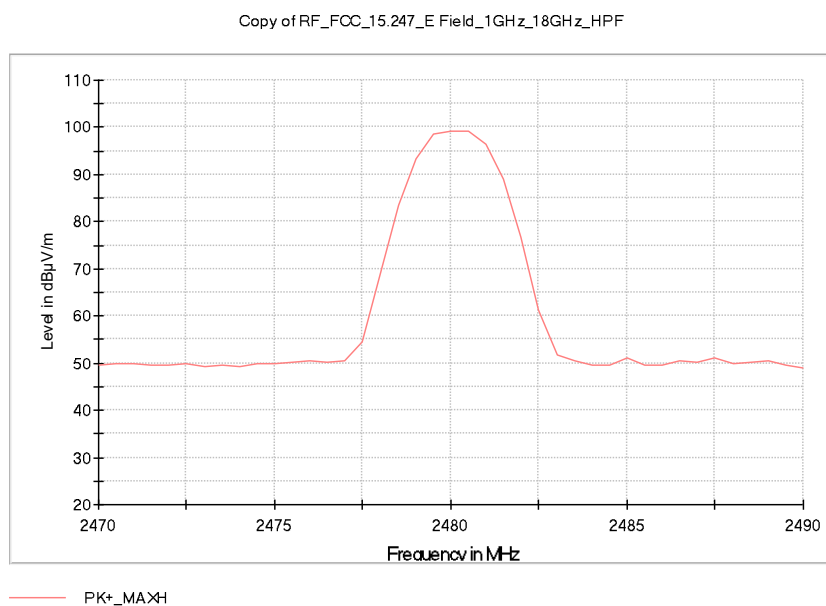
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2440.00000 Active Port = 1
Modulation = BTLE 5.0 (GFSK 1 Mbit/s)

Images:



Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2480.00000 Active Port = 1
Modulation = BTLE 5.0 (GFSK 1 Mbit/s)

Images:



Modulation: 802.11b (DSSS 1 Mbit/s)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	E.I.R.P. (dBm)
[2400, 2483.5]	Digital Transmission System (DTS)	2412.00000	1	10.87
		2437.00000		13.77
		2462.00000		14.27

Verdict

Pass

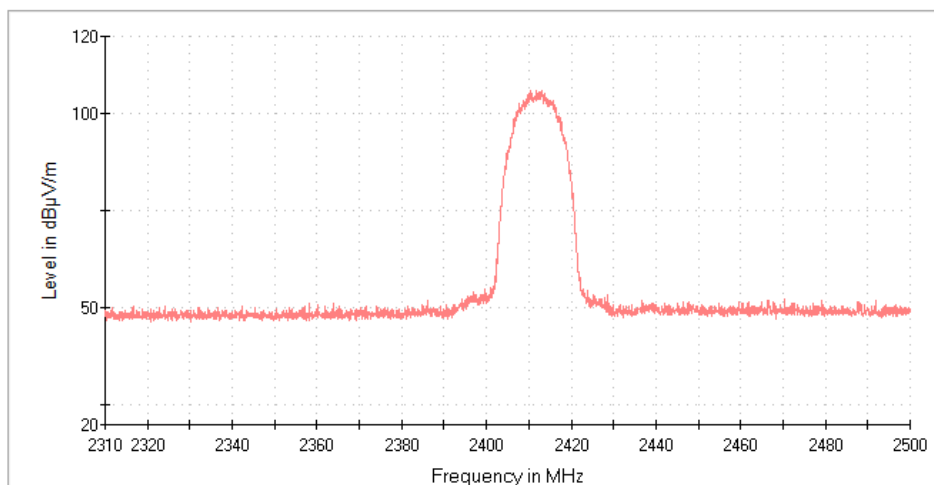
Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2412.00000 Active Port = 1

Modulation = 802.11b (DSSS 1 Mbit/s)

Images:

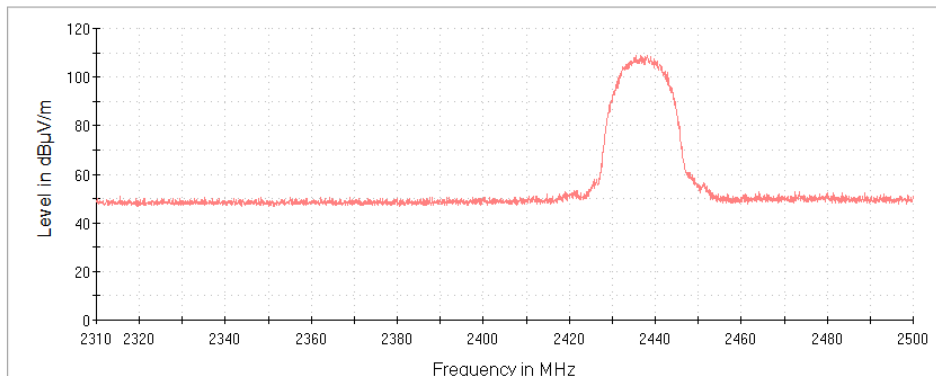


Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2437.00000 Active Port = 1

Modulation = 802.11b (DSSS 1 Mbit/s)

Images:

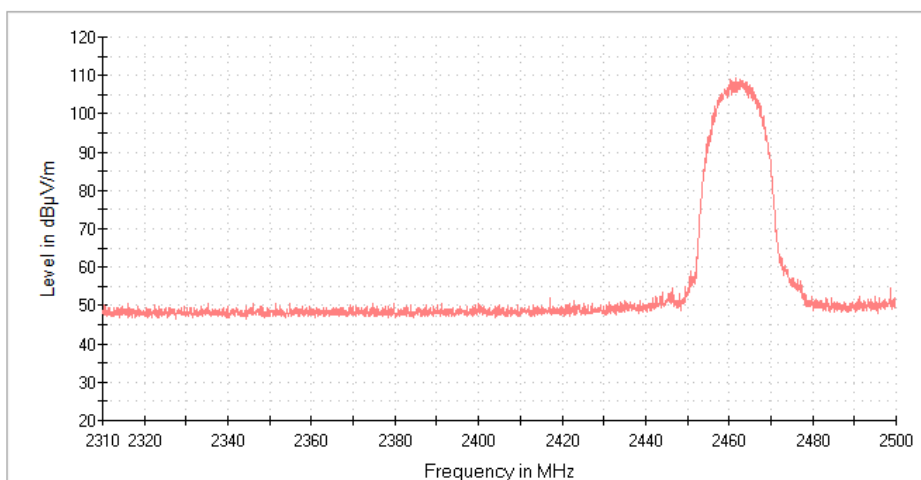


Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2462.00000 Active Port = 1

Modulation = 802.11b (DSSS 1 Mbit/s)

Images:



Modulation: 802.11g (OFDM 6 Mbit/s)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	E.I.R.P. (dBm)
[2400, 2483.5]	Digital Transmission System (DTS)	2412.00000	1	5.37
		2437.00000		5.17
		2462.00000		7.57

Verdict

Pass

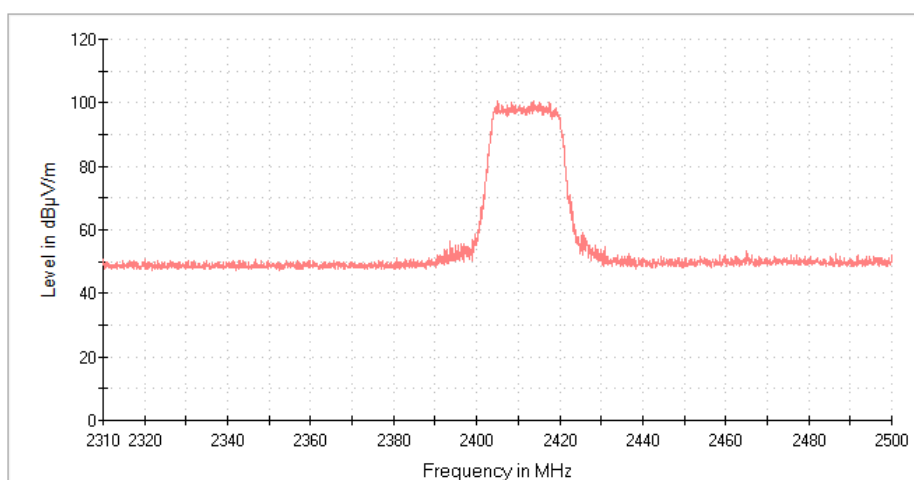
Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2412.00000 Active Port = 1

Modulation = 802.11g (OFDM 6 Mbit/s)

Images:

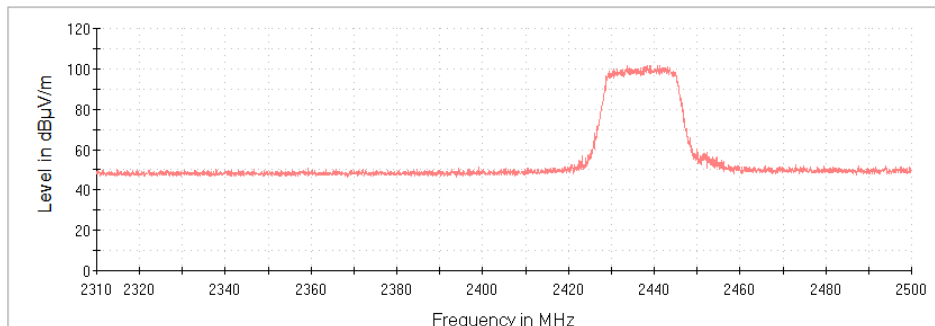


Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2437.00000 Active Port = 1

Modulation = 802.11g (OFDM 6 Mbit/s)

Images:

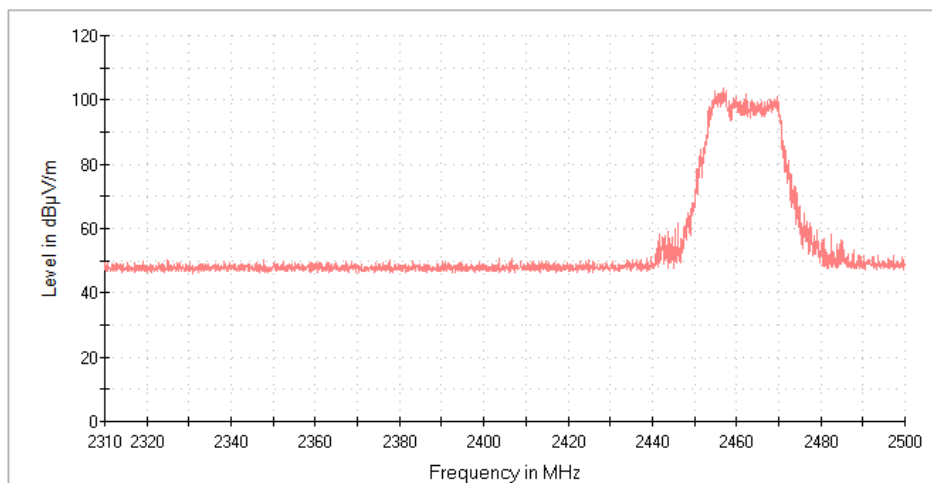


Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2462.00000 Active Port = 1

Modulation = 802.11g (OFDM 6 Mbit/s)

Images:



Modulation: 802.11n HT20 (OFDM MCS0)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	E.I.R.P. (dBm)
[2400, 2483.5]	Digital Transmission System (DTS)	2412.00000	1	7.07
		2437.00000		8.87
		2462.00000		6.07

Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5]

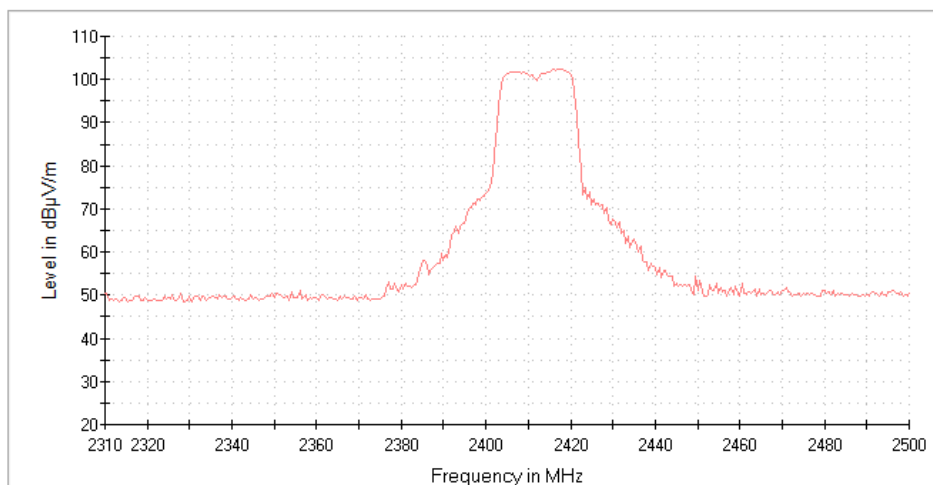
Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2412.00000

Active Port = 1

Modulation = 802.11n HT20 (OFDM MCS0)

Images:



Operation Band MHz = [2400, 2483.5]

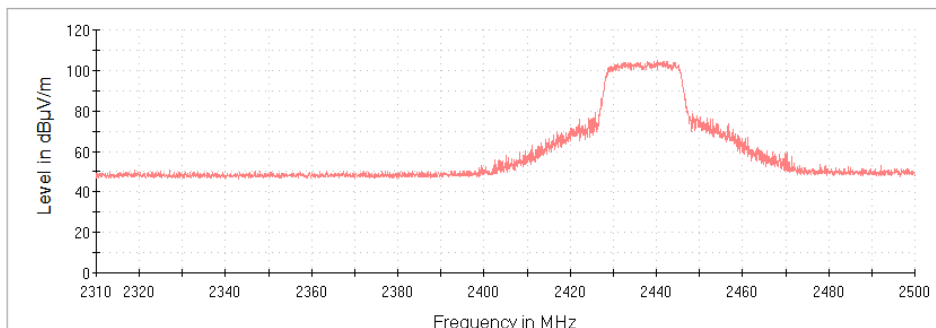
Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2437.00000

Active Port = 1

Modulation = 802.11n HT20 (OFDM MCS0)

Images:



Operation Band MHz = [2400, 2483.5]

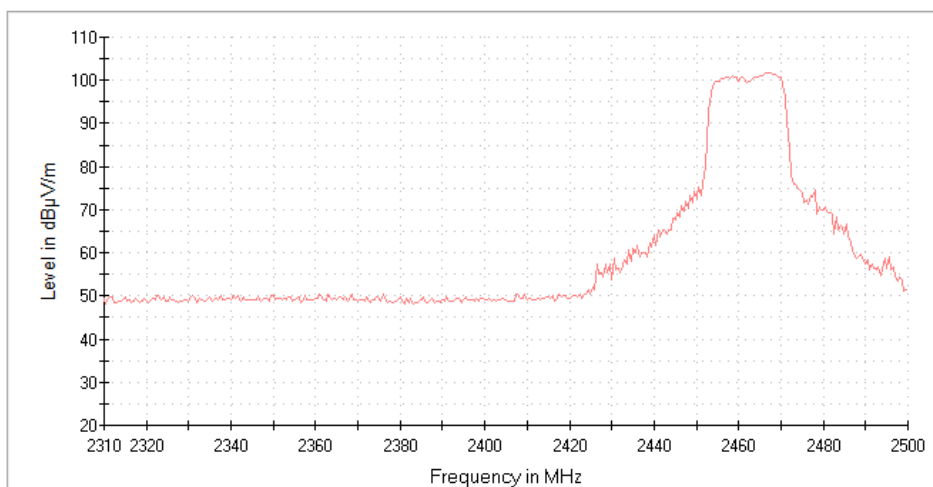
Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2462.00000

Active Port = 1

Modulation = 802.11n HT20 (OFDM MCS0)

Images:



RSS-247 6.6 / FCC 15.247 (d) [Bndedge] Band-edge emissions compliance (Transmitter)

Limits

USA FCC Part 15.407 (11-18-2024):

FCC 15.247:

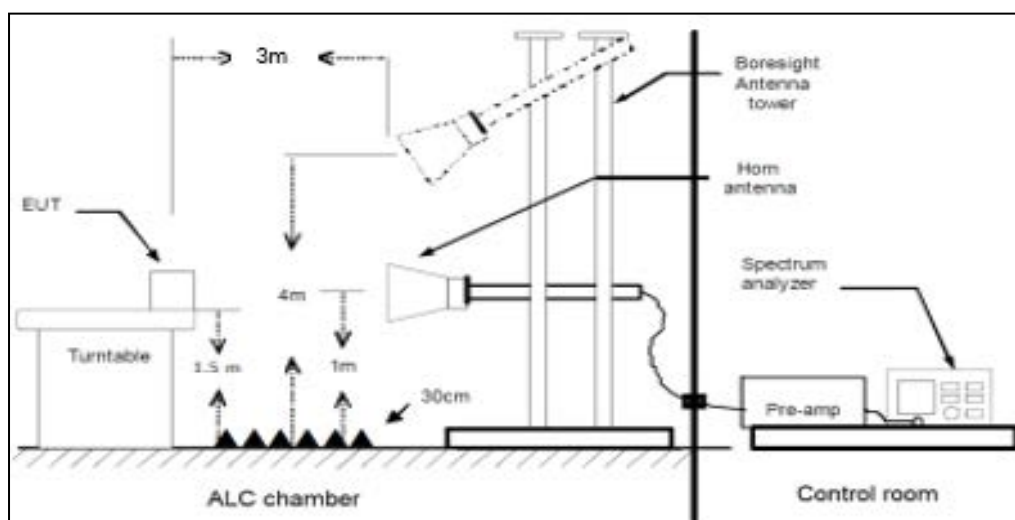
(d)) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Secs. 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Secs. 15.205(a), must also comply with the radiated emission limits specified in Secs. 15.209(a) (see Secs. 15.205(c)).

CANADA RSS-247 Issue 4 (July 2025):

6.6 Unwanted Emissions

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum device, digitally modulated device, or hybrid system is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power – based on either an RF conducted or a radiated measurement – provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 6.3.2, the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

TEST SETUP:



Modulation: BT (GFSK 1-DH5)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Inband Peak Lvl (dBm)	Freq (MHz)	Lvl (dBm)	
[2400, 2483.5]	Frequency Hopping Spread Spectrum systems (DSS)	Hopping	1	2.800	2484.925000	-25.1	
				2.800	2370.675000	-25.0	
				2.800	2314.725000	-25.4	
				2.800	2496.825000	-25.3	
				2.800	2496.875000	-25.4	
				2.800	2370.625000	-25.5	
				2.800	2484.875000	-25.4	
				2.800	2370.725000	-25.7	
				2.800	2484.525000	-25.4	
				2.800	2336.975000	-25.7	
				2.800	2484.975000	-25.5	
				2.800	2340.825000	-25.7	
				2.800	2485.375000	-25.5	
				2.800	2340.775000	-25.8	
				2.800	2485.125000	-25.5	
				2.800	2350.475000	-25.9	
				2.800	2312.725000	-25.9	
				2.800	2484.475000	-25.6	
				2.800	2383.125000	-25.9	
				2.800	2487.125000	-25.7	
				2.800	2487.175000	-25.8	
				2.800	2338.275000	-25.9	
				2.800	2483.825000	-25.8	
				2.800	2314.675000	-25.9	
				2.800	2327.475000	-26.0	
				2.800	2485.975000	-25.8	
				2.800	2485.175000	-26.0	
				2.800	2336.925000	-26.0	
				2.800	2358.625000	-26.0	
				2.800	2485.725000	-26.0	
		2402.00000		0.800	2368.825000	-24.7	
				0.800	2344.425000	-25.2	
				0.800	2337.875000	-25.3	
				0.800	2344.475000	-25.3	
				0.800	2368.875000	-25.3	
				0.800	2337.825000	-25.4	

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Inband Peak Lvl (dBm)	Freq (MHz)	Lvl (dBm)	
				0.800	2368.775000	-25.5	
				0.800	2314.525000	-25.6	
				0.800	2314.475000	-25.6	
				0.800	2391.575000	-25.6	
				0.800	2331.725000	-25.7	
				0.800	2331.675000	-25.8	
				0.800	2314.575000	-25.8	
				0.800	2392.875000	-25.9	
				0.800	2312.875000	-25.9	
		2480.00000		-0.900	2485.375000	-24.2	
				-0.900	2485.425000	-24.3	
				-0.900	2486.675000	-24.8	
				-0.900	2486.725000	-24.9	
				-0.900	2485.325000	-25.7	
				-0.900	2489.375000	-25.8	
				-0.900	2489.425000	-25.8	
				-0.900	2483.875000	-25.9	
				-0.900	2495.875000	-25.9	
				-0.900	2485.625000	-26.0	
				-0.900	2485.475000	-26.0	
				-0.900	2484.875000	-26.1	
				-0.900	2484.925000	-26.1	
				-0.900	2495.775000	-26.1	
				-0.900	2497.925000	-26.1	

Verdict

Pass

Attachments

Operation Band MHz = [2400,
2483.5]

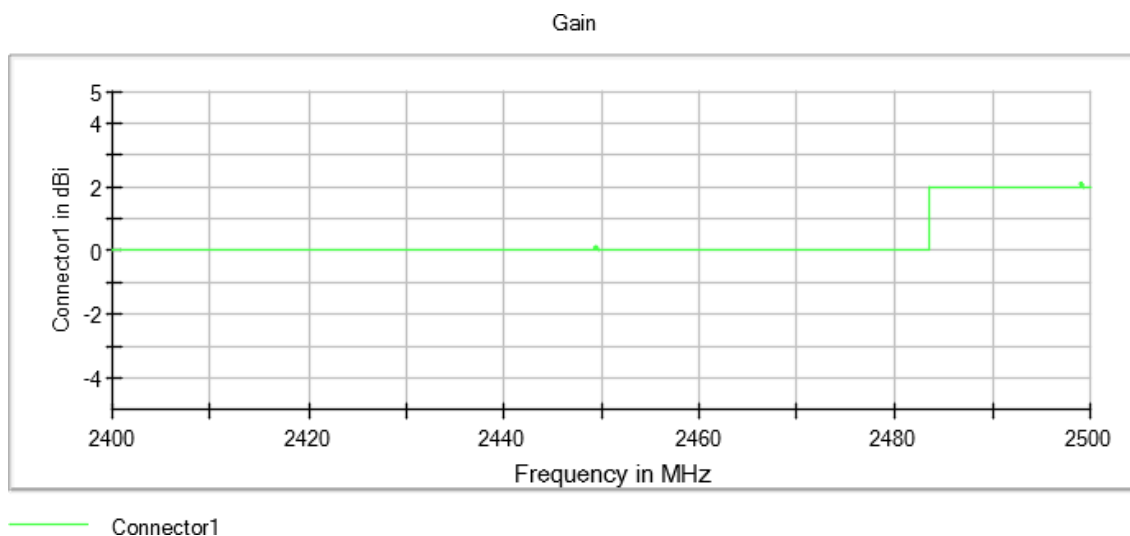
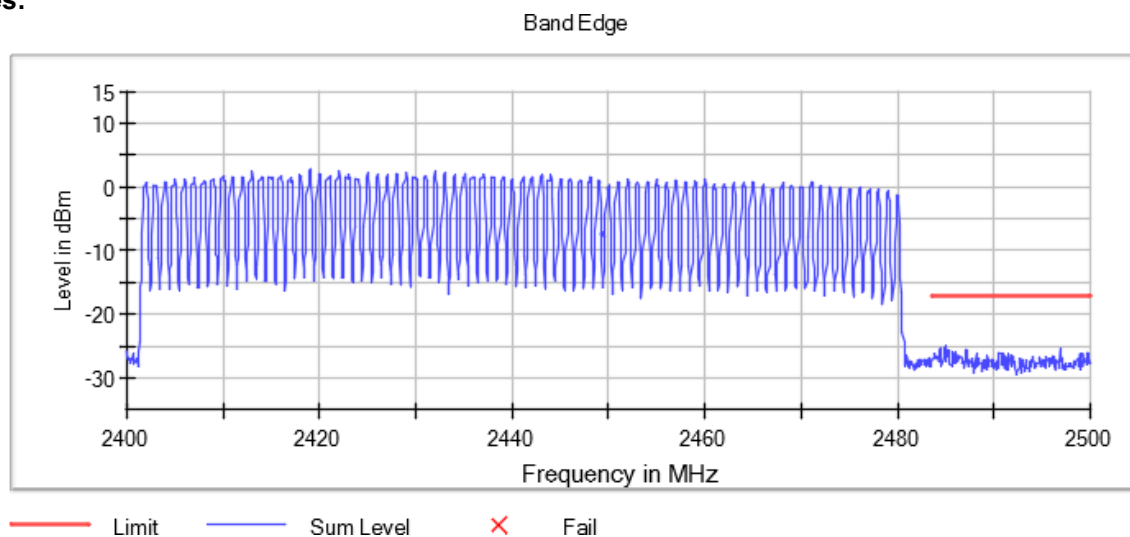
Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

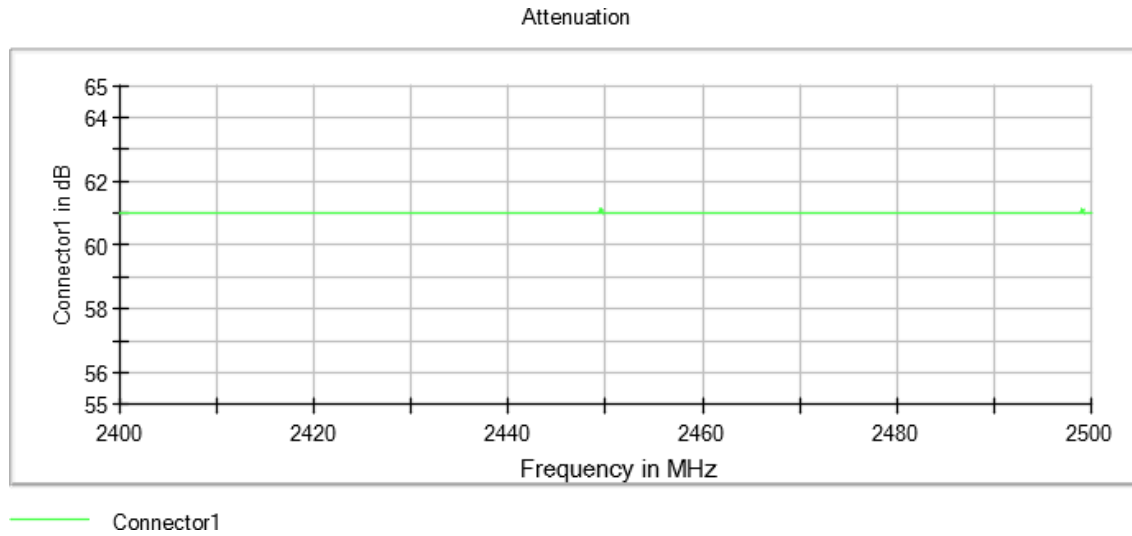
Frequency MHz = 0.00000

Active Port = 1

Modulation = BT (GFSK 1-DH5)

Images:





Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

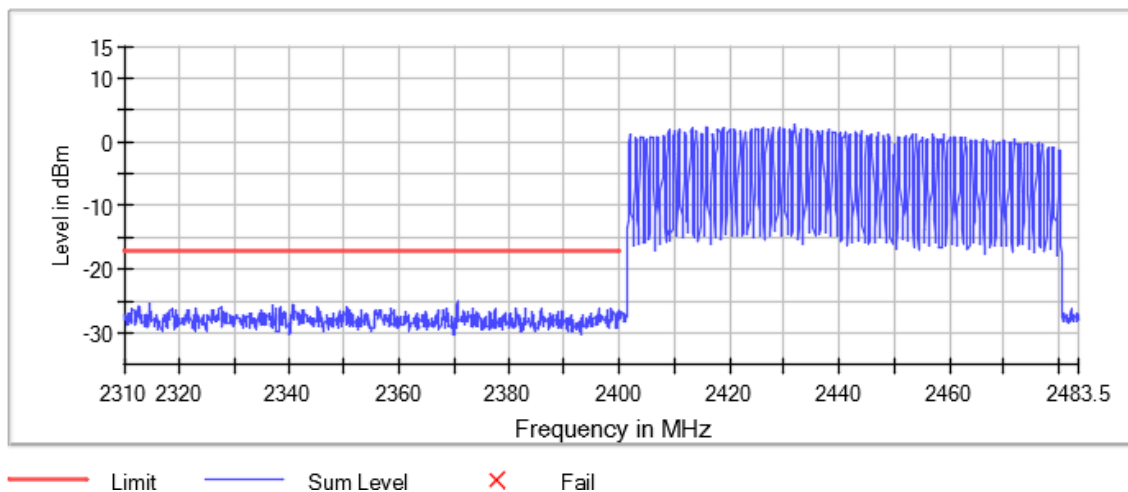
Frequency MHz = 0.00000

Active Port = 1

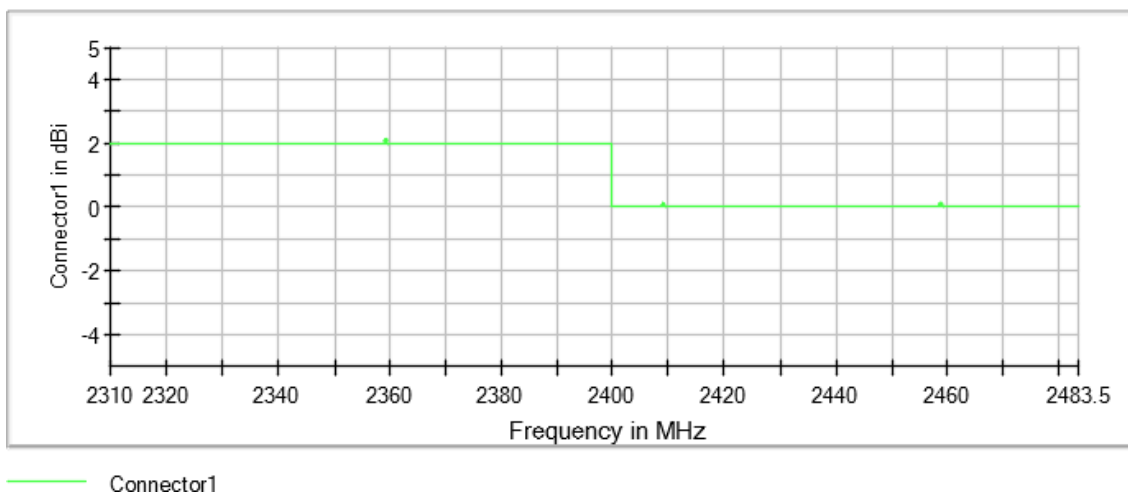
Modulation = BT (GFSK 1-DH5)

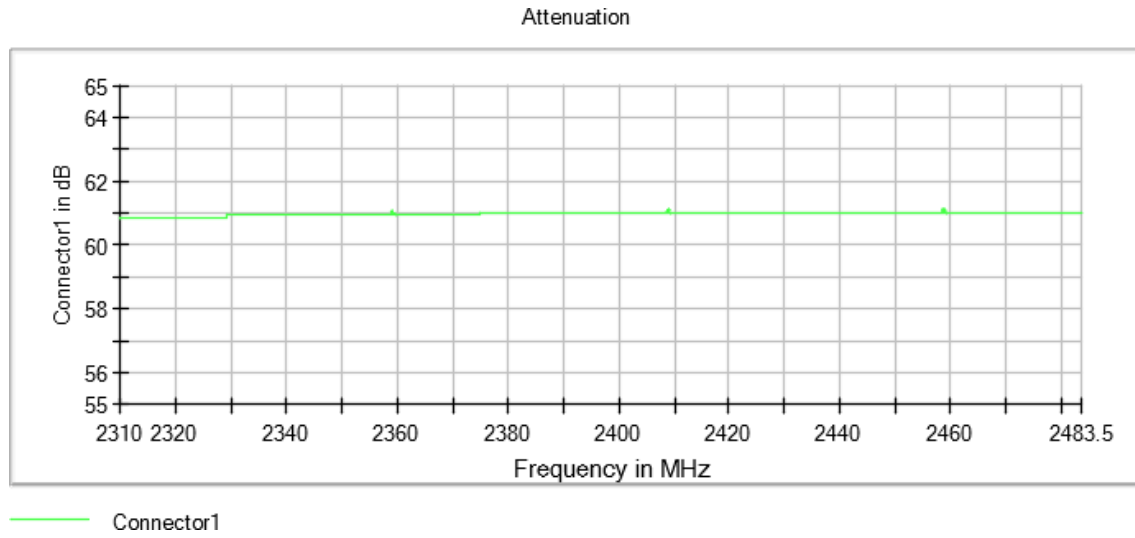
Images:

Band Edge



Gain





Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

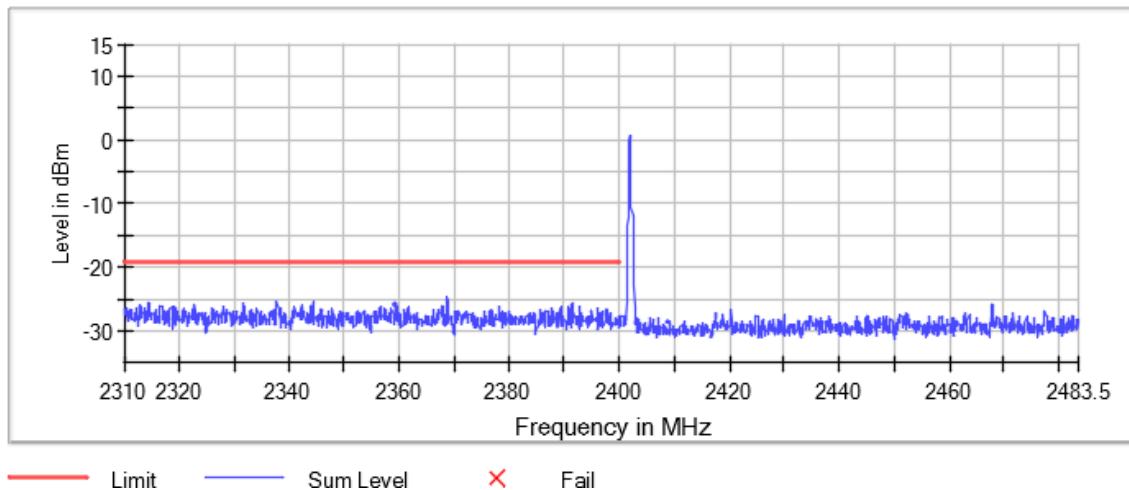
Frequency MHz = 2402.00000

Active Port = 1

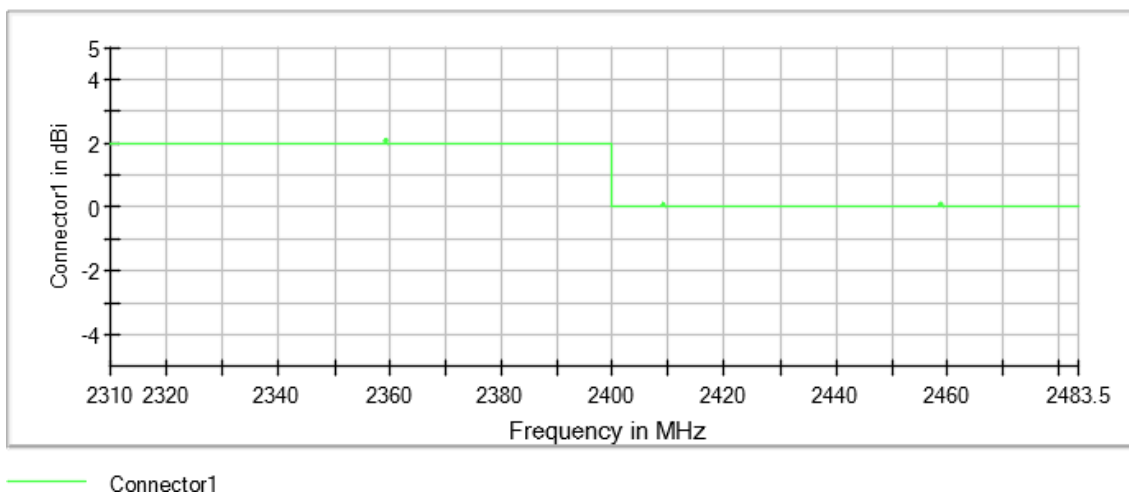
Modulation = BT (GFSK 1-DH5)

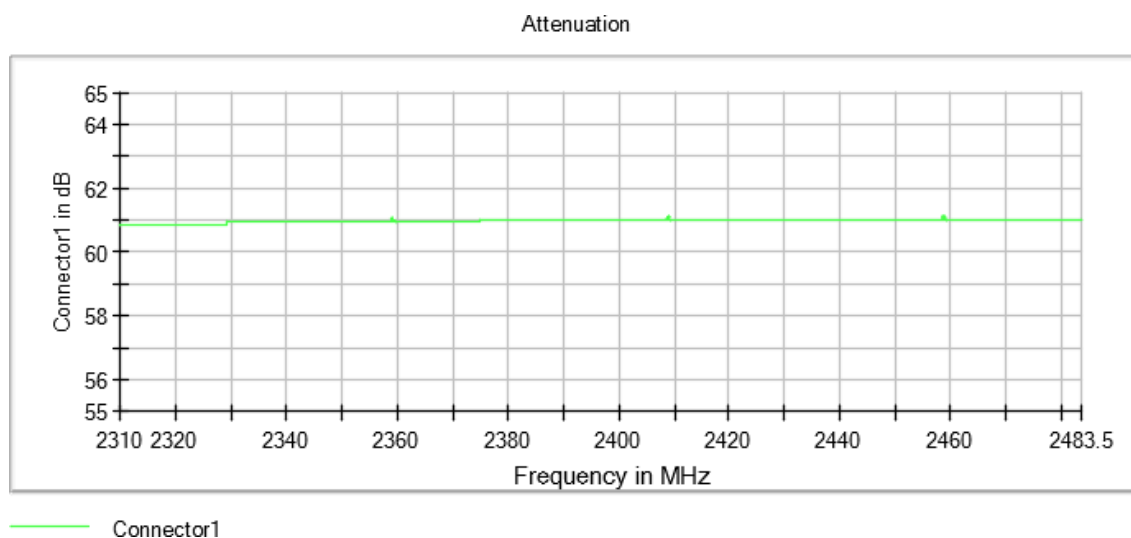
Images:

Band Edge



Gain





Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

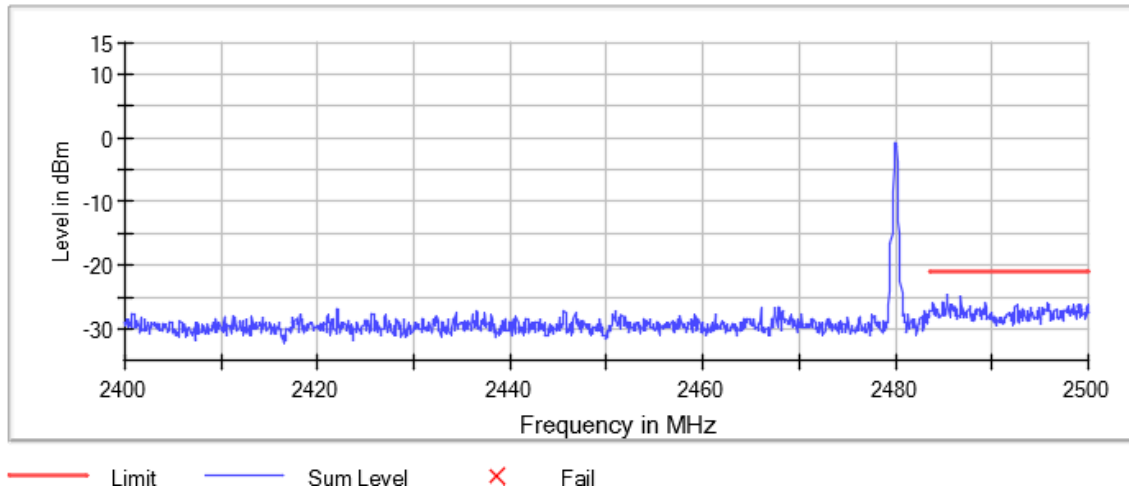
Frequency MHz = 2480.00000

Active Port = 1

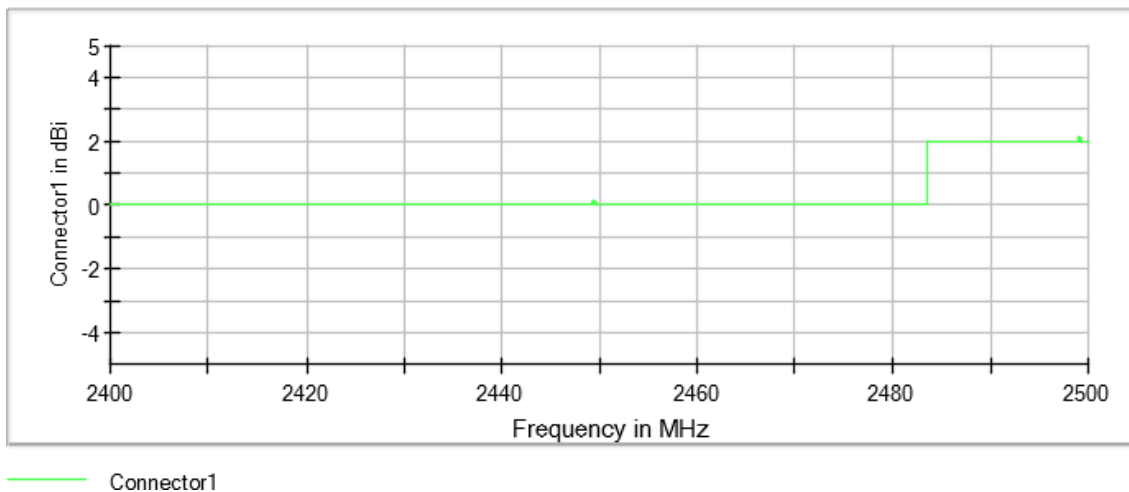
Modulation = BT (GFSK 1-DH5)

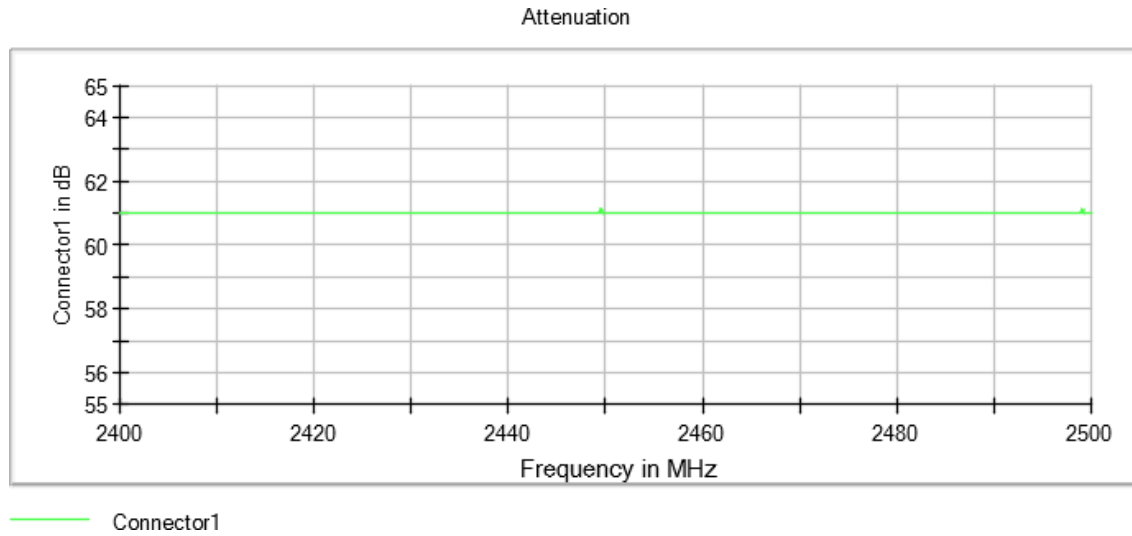
Images:

Band Edge



Gain





Modulation: BT (Pi/4 DQPSK 2-DH5)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Inband Peak Lvl (dBm)	Freq (MHz)	Lvl (dBm)	
[2400, 2483.5]	Frequency Hopping Spread Spectrum systems (DSS)	Hopping	1	2.700	2396.075000	-24.6	
				2.400	2487.925000	-24.8	
				2.700	2396.125000	-24.7	
				2.400	2492.325000	-25.0	
				2.400	2498.975000	-25.1	
				2.700	2355.475000	-24.8	
				2.700	2355.425000	-25.1	
				2.400	2492.375000	-25.3	
				2.700	2333.625000	-25.1	
				2.400	2484.775000	-25.3	
				2.700	2352.975000	-25.2	
				2.400	2484.725000	-25.3	
				2.400	2487.625000	-25.4	
				2.700	2343.375000	-25.3	
				2.400	2499.025000	-25.4	
				2.700	2353.025000	-25.4	
				2.400	2492.275000	-25.4	
				2.700	2333.675000	-25.5	
				2.700	2310.625000	-25.5	
				2.400	2487.875000	-25.5	
				2.400	2494.425000	-25.5	
				2.700	2341.425000	-25.5	
				2.400	2484.425000	-25.7	
				2.700	2310.575000	-25.6	
				2.700	2326.225000	-25.6	
				2.400	2484.475000	-25.7	
				2.400	2498.625000	-25.8	
				2.700	2396.025000	-25.6	
				2.400	2498.575000	-25.8	
				2.700	2321.775000	-25.6	
		2402.00000		0.700	2371.575000	-24.8	
				0.700	2371.525000	-24.9	
				0.700	2356.525000	-25.1	
				0.700	2356.475000	-25.3	
				0.700	2358.025000	-25.3	
				0.700	2326.375000	-25.3	

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Inband Peak Lvl (dBm)	Freq (MHz)	Lvl (dBm)
				0.700	2358.075000	-25.3
				0.700	2326.325000	-25.4
				0.700	2356.575000	-25.6
				0.700	2371.625000	-25.6
				0.700	2326.475000	-25.7
				0.700	2310.875000	-25.7
				0.700	2340.725000	-25.8
				0.700	2336.475000	-25.8
				0.700	2310.825000	-25.8
		2480.00000		-0.500	2485.325000	-25.7
				-0.500	2483.525000	-25.8
				-0.500	2485.375000	-25.8
				-0.500	2486.225000	-25.8
				-0.500	2483.575000	-25.8
				-0.500	2489.975000	-25.8
				-0.500	2484.875000	-25.9
				-0.500	2486.275000	-26.0
				-0.500	2484.925000	-26.0
				-0.500	2489.925000	-26.0
				-0.500	2493.725000	-26.0
				-0.500	2490.125000	-26.1
				-0.500	2493.275000	-26.1
				-0.500	2499.325000	-26.1
				-0.500	2483.825000	-26.1

Verdict

Pass

Attachments

Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

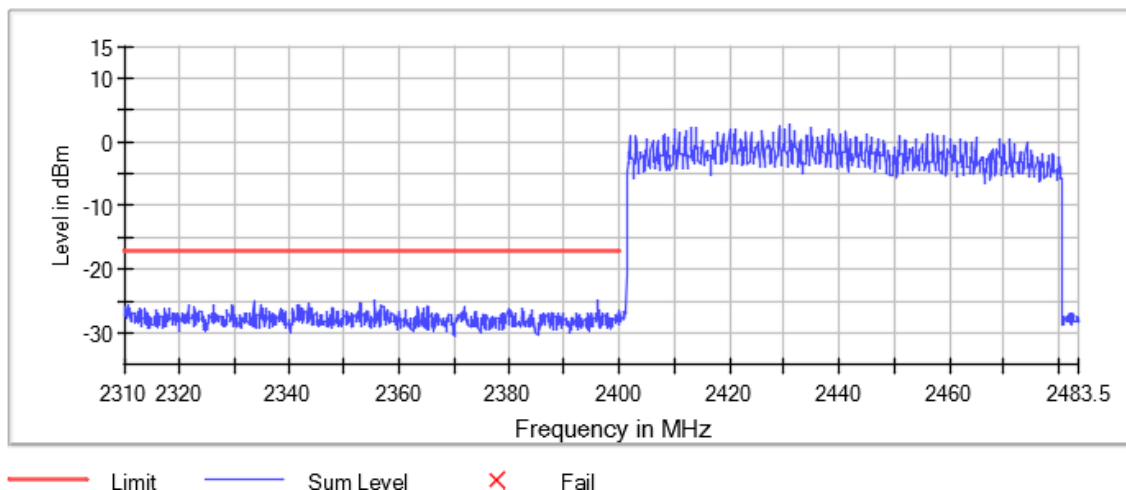
Frequency MHz = 0.00000

Active Port = 1

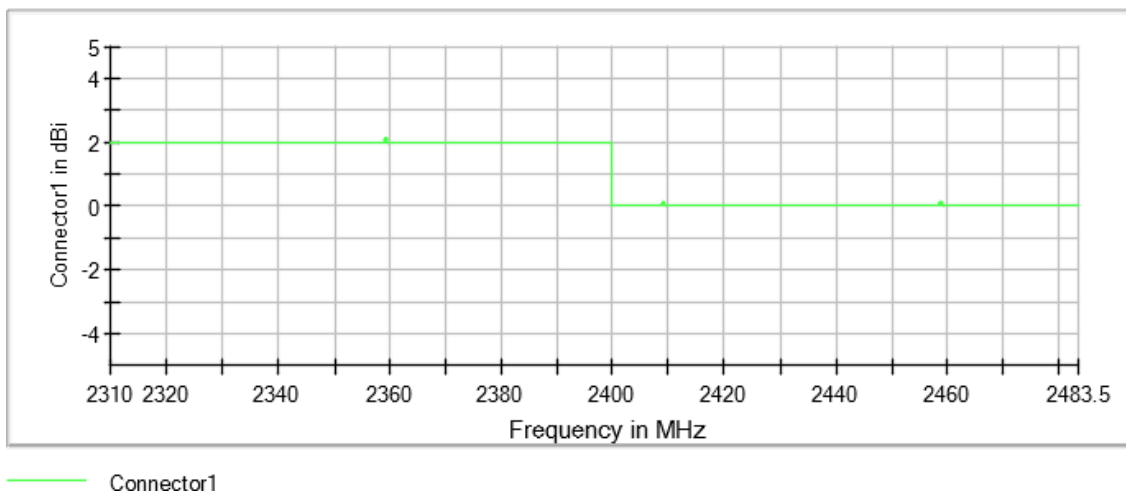
Modulation = BT (Pi/4 DQPSK 2-
DH5)

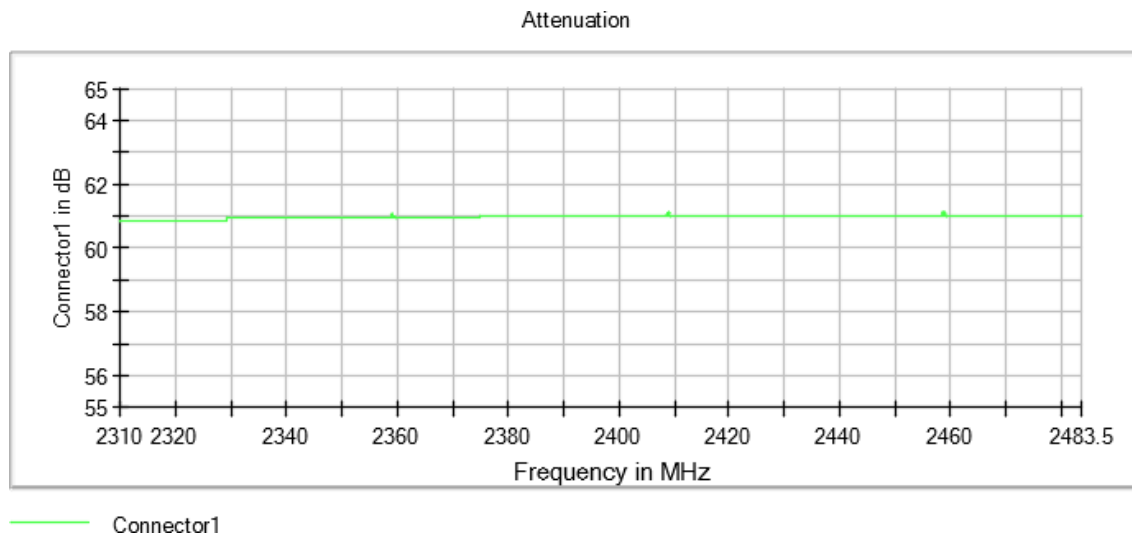
Images:

Band Edge



Gain





Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

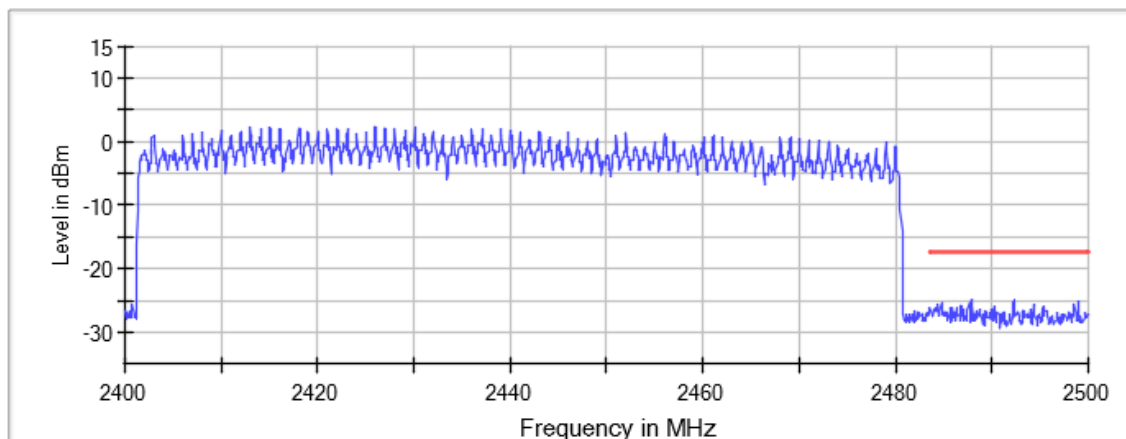
Frequency MHz = 0.00000

Active Port = 1

Modulation = BT (Pi/4 DQPSK 2-
DH5)

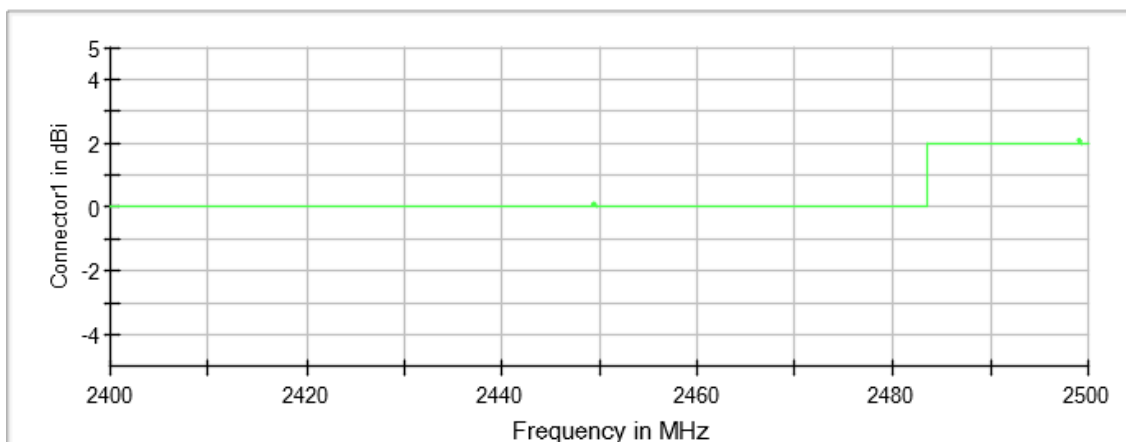
Images:

Band Edge

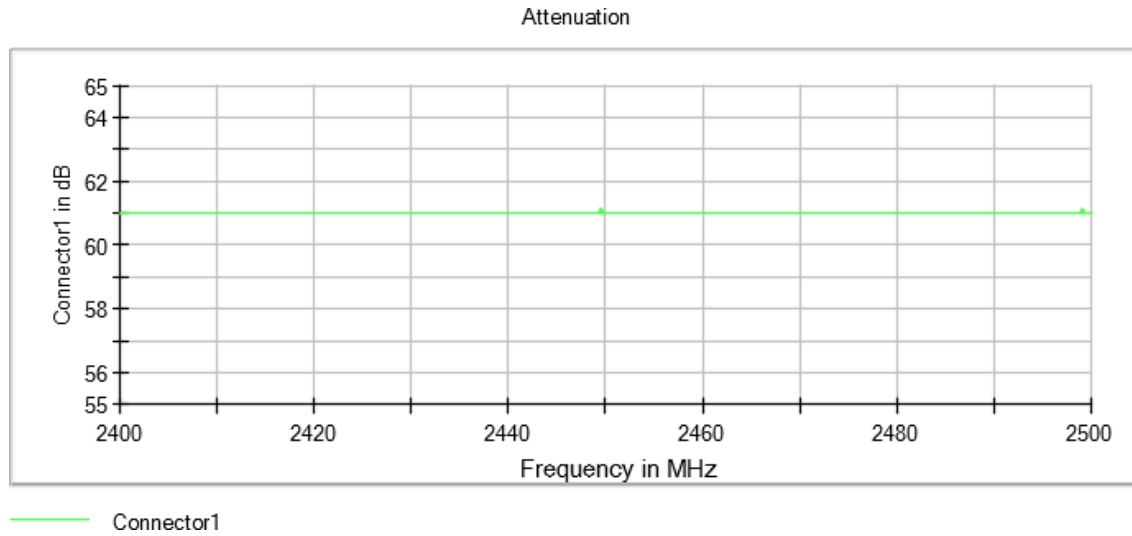


— Limit — Sum Level × Fail

Gain



— Connector1



Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

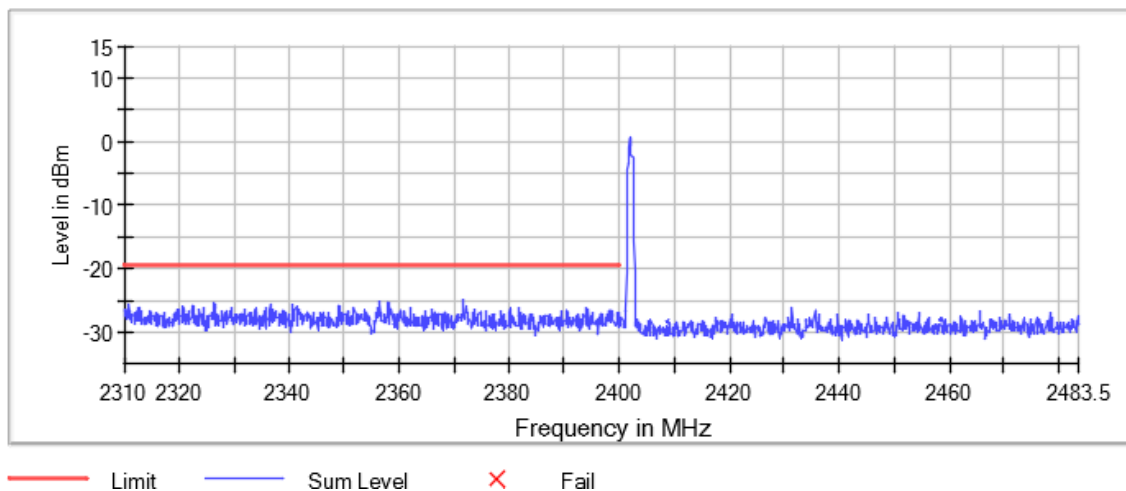
Frequency MHz = 2402.00000

Active Port = 1

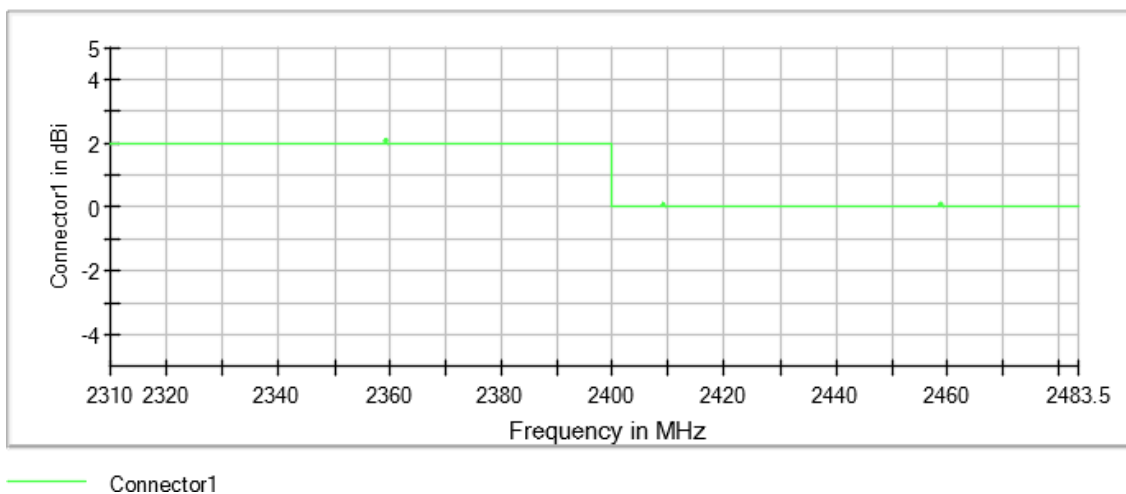
Modulation = BT (Pi/4 DQPSK 2-
DH5)

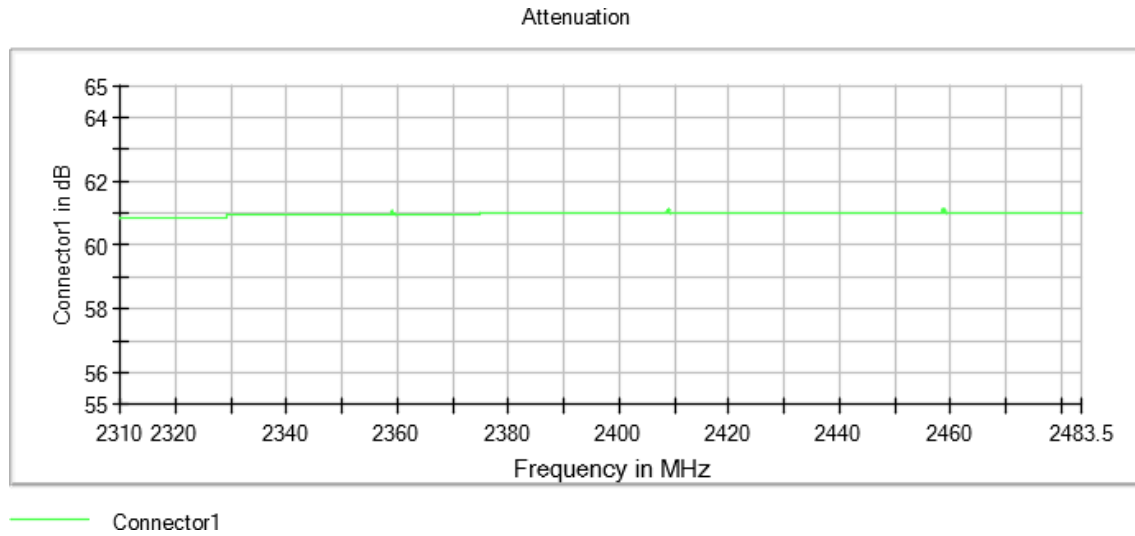
Images:

Band Edge



Gain





Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

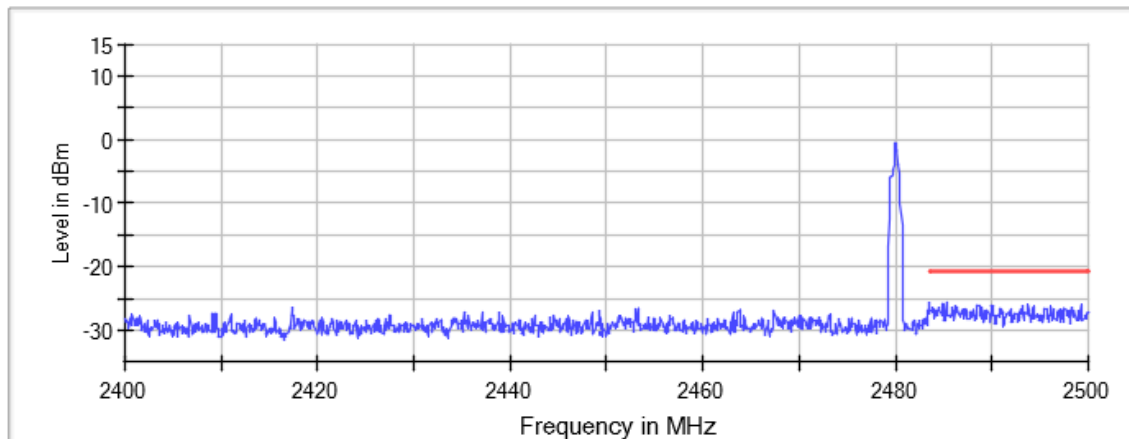
Frequency MHz = 2480.00000

Active Port = 1

Modulation = BT (Pi/4 DQPSK 2-
DH5)

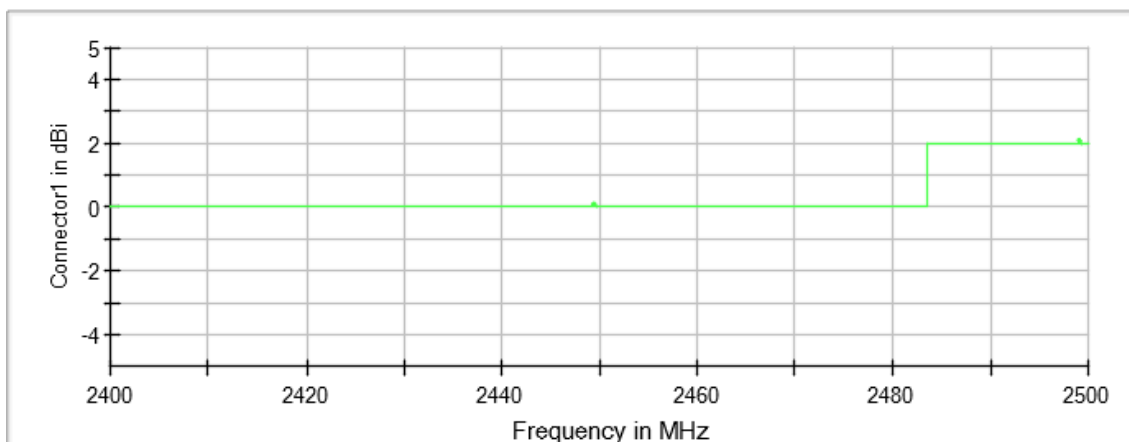
Images:

Band Edge

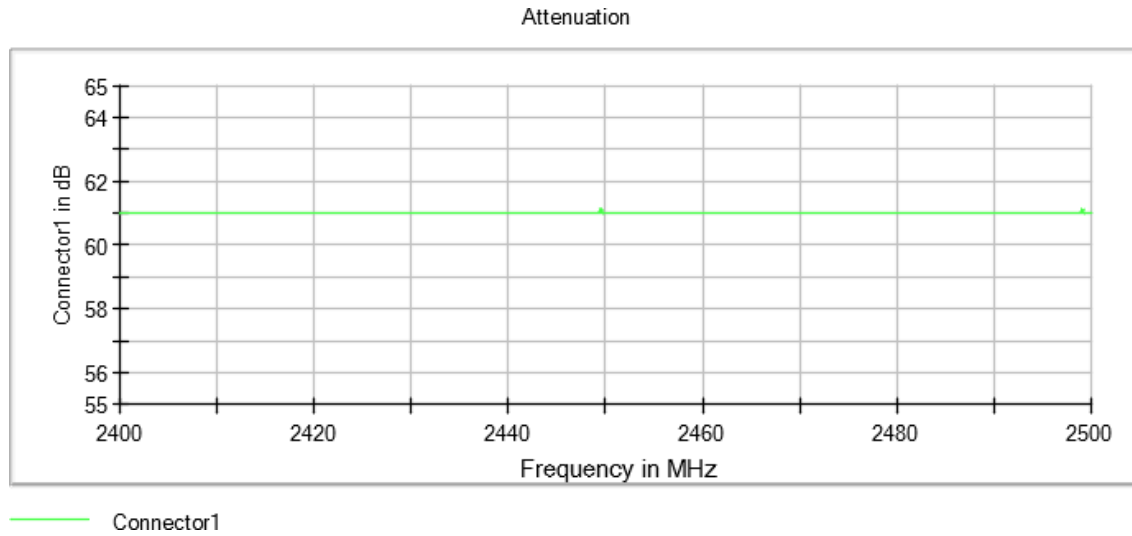


— Limit — Sum Level × Fail

Gain



— Connector1



Modulation: BT (8DPSK 3-DH5)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Inband Peak Lvl (dBm)	Freq (MHz)	Lvl (dBm)	
[2400, 2483.5]	Frequency Hopping Spread Spectrum systems (DSS)	Hopping	1	2.700	2381.425000	-24.2	
				2.600	2489.725000	-24.9	
				2.700	2381.475000	-24.7	
				2.600	2489.675000	-25.5	
				2.700	2338.925000	-25.0	
				2.600	2489.775000	-25.5	
				2.700	2381.375000	-25.2	
				2.600	2496.575000	-25.5	
				2.600	2494.075000	-25.5	
				2.700	2397.375000	-25.3	
				2.600	2496.525000	-25.6	
				2.700	2387.225000	-25.4	
				2.600	2491.775000	-25.7	
				2.700	2338.875000	-25.4	
				2.700	2344.125000	-25.5	
				2.600	2494.025000	-25.7	
				2.600	2483.575000	-25.8	
				2.700	2387.175000	-25.5	
				2.700	2328.925000	-25.6	
				2.600	2496.475000	-25.9	
				2.700	2315.025000	-25.6	
				2.600	2483.625000	-25.9	
				2.700	2326.325000	-25.6	
				2.600	2489.825000	-25.9	
				2.700	2373.925000	-25.7	
				2.600	2494.525000	-26.0	
				2.700	2344.325000	-25.7	
				2.600	2499.075000	-26.0	
				2.600	2489.875000	-26.0	
				2.700	2373.875000	-25.7	
		2402.00000		0.800	2339.125000	-24.0	
				0.800	2339.075000	-24.1	
				0.800	2321.875000	-24.4	
				0.800	2321.825000	-24.7	
				0.800	2370.575000	-25.0	
				0.800	2321.925000	-25.3	

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Inband Peak Lvl (dBm)	Freq (MHz)	Lvl (dBm)	
				0.800	2336.275000	-25.3	
				0.800	2310.875000	-25.3	
				0.800	2370.625000	-25.3	
				0.800	2388.225000	-25.4	
				0.800	2310.925000	-25.5	
				0.800	2345.575000	-25.5	
				0.800	2371.975000	-25.5	
				0.800	2389.125000	-25.5	
				0.800	2336.325000	-25.5	
		2480.00000		-0.800	2484.025000	-24.8	
				-0.800	2484.075000	-25.0	
				-0.800	2484.425000	-25.0	
				-0.800	2495.575000	-25.3	
				-0.800	2484.475000	-25.4	
				-0.800	2495.625000	-25.5	
				-0.800	2489.625000	-25.6	
				-0.800	2484.375000	-25.7	
				-0.800	2487.525000	-25.8	
				-0.800	2496.375000	-25.9	
				-0.800	2489.675000	-25.9	
				-0.800	2483.975000	-25.9	
				-0.800	2493.125000	-26.0	
				-0.800	2488.475000	-26.0	
				-0.800	2488.525000	-26.0	

Verdict

Pass

Attachments

Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

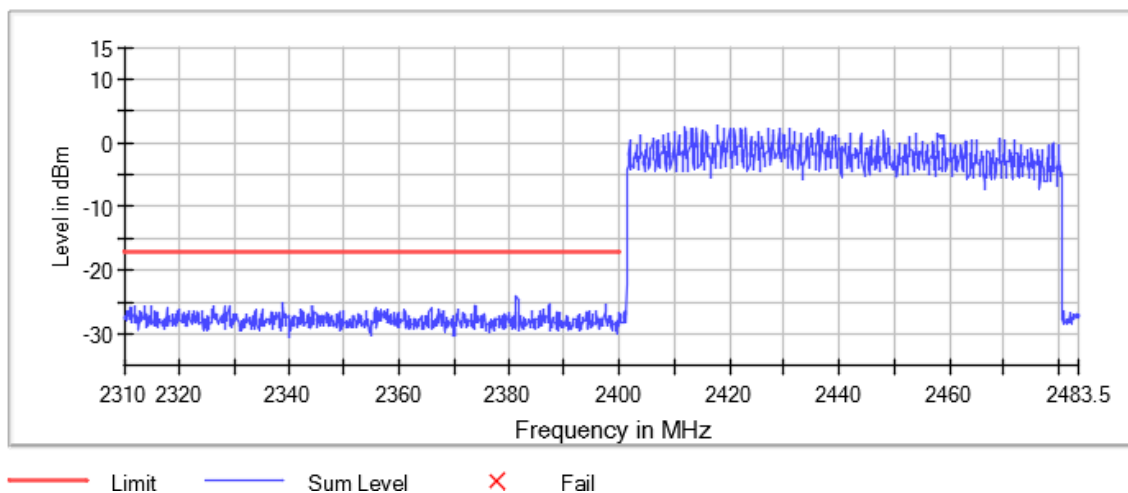
Frequency MHz = 0.00000

Active Port = 1

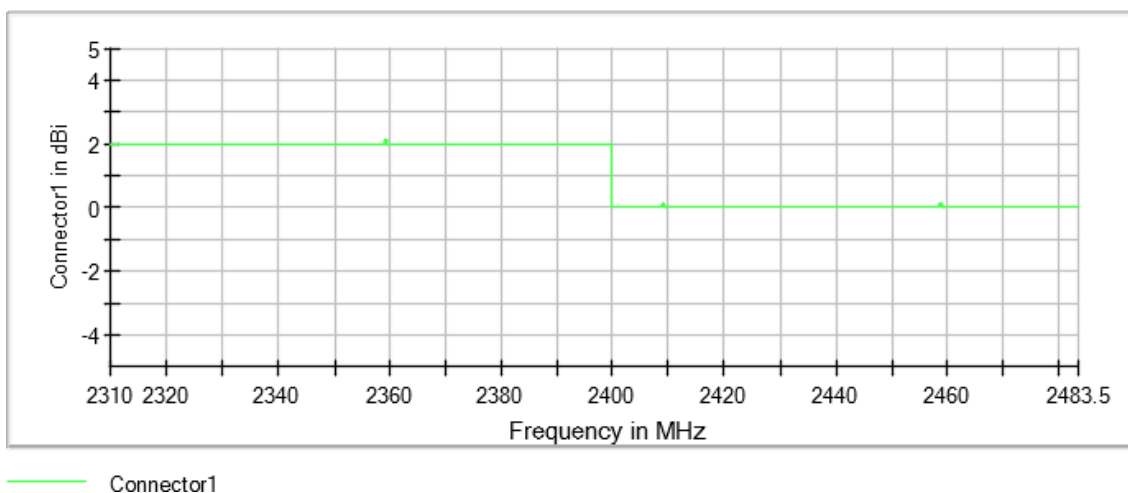
Modulation = BT (8DPSK 3-DH5)

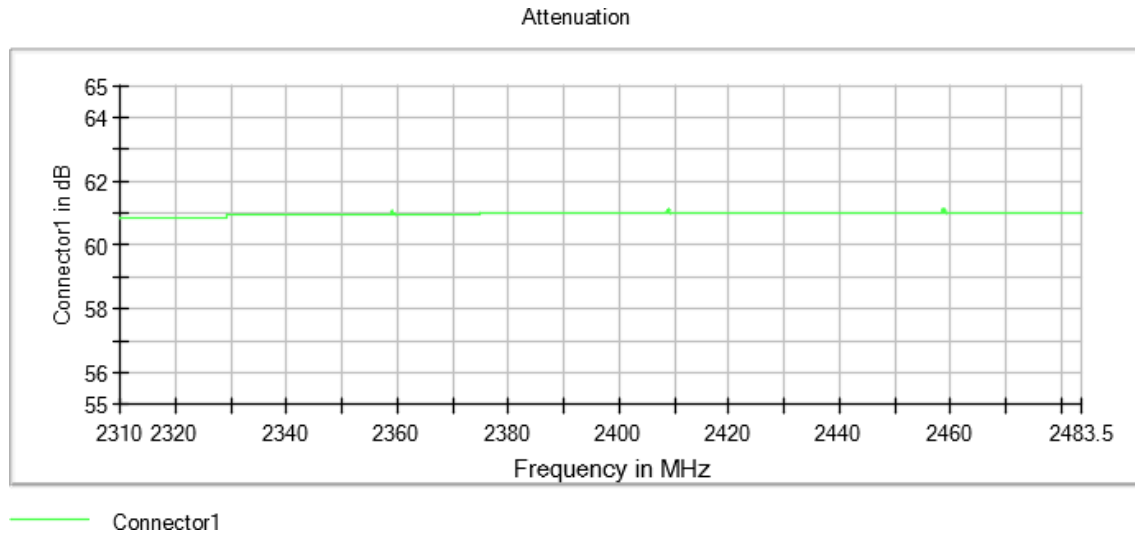
Images:

Band Edge



Gain





Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

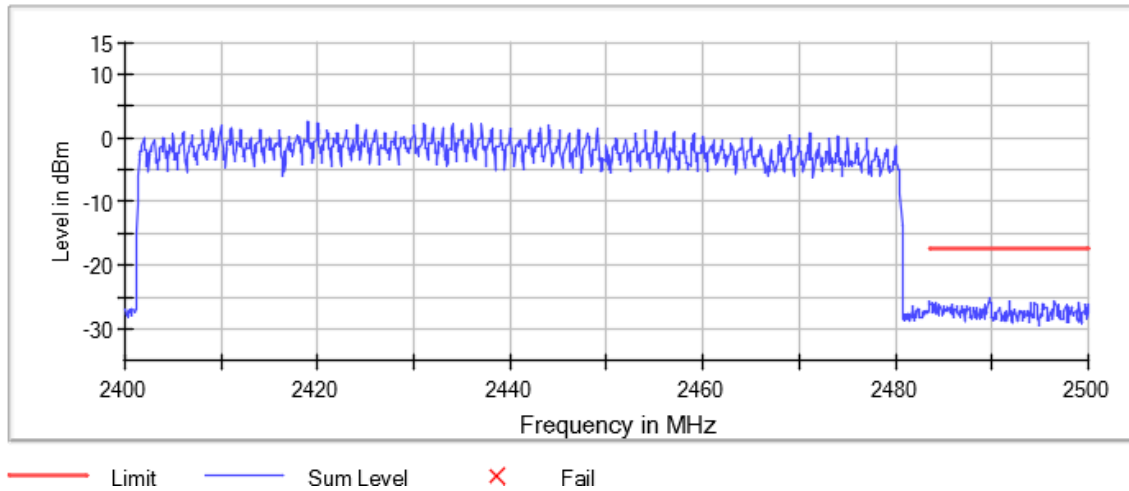
Frequency MHz = 0.00000

Active Port = 1

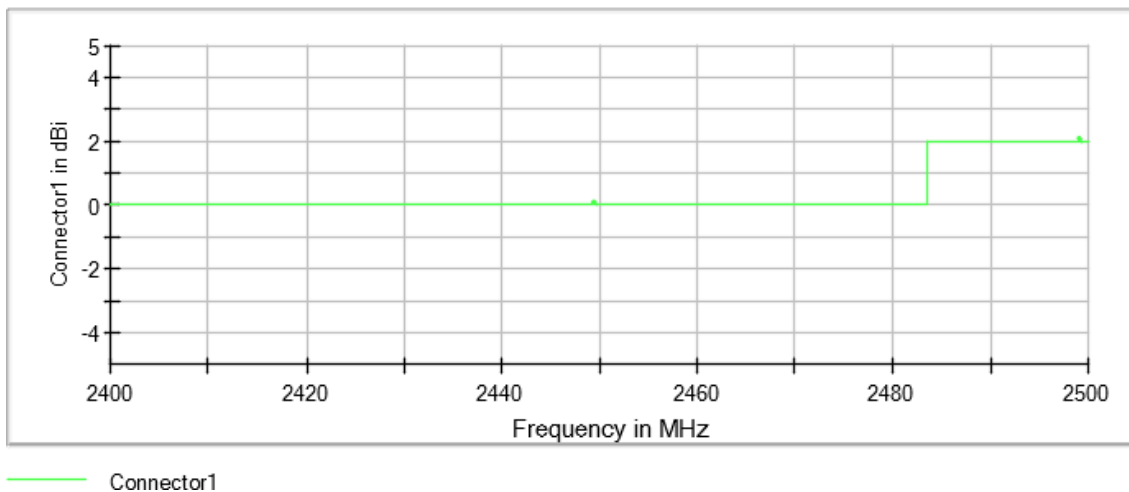
Modulation = BT (8DPSK 3-DH5)

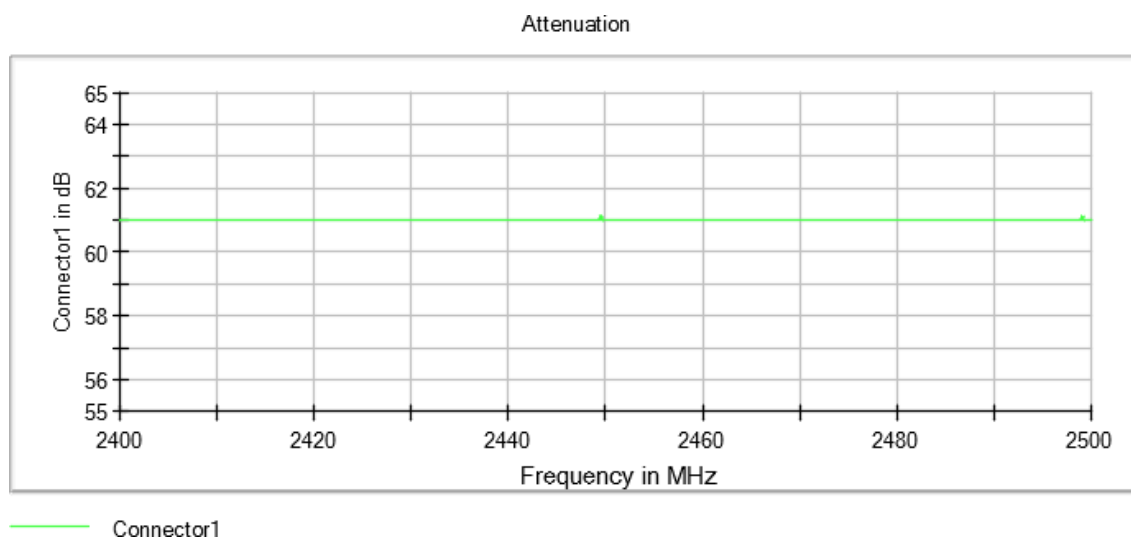
Images:

Band Edge



Gain





Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

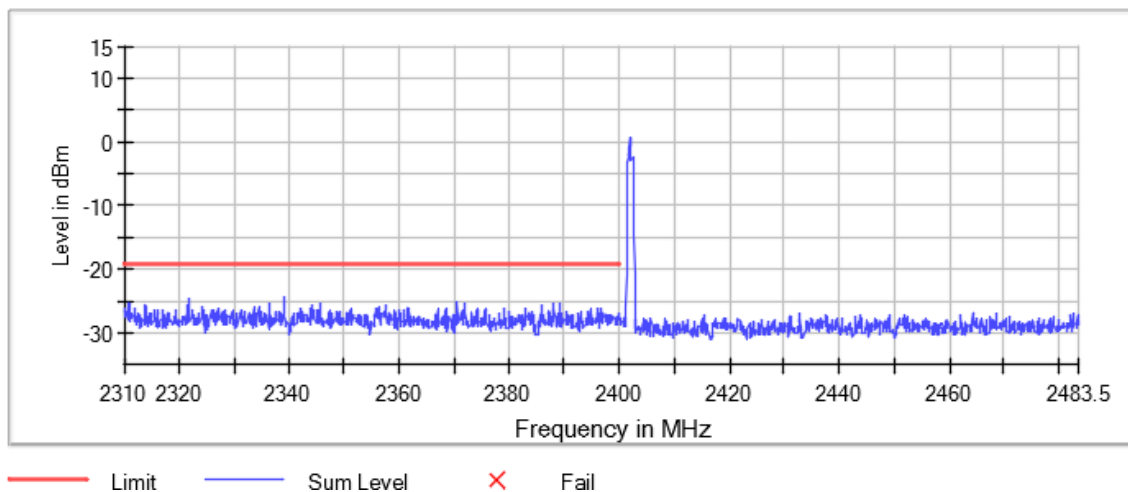
Frequency MHz = 2402.00000

Active Port = 1

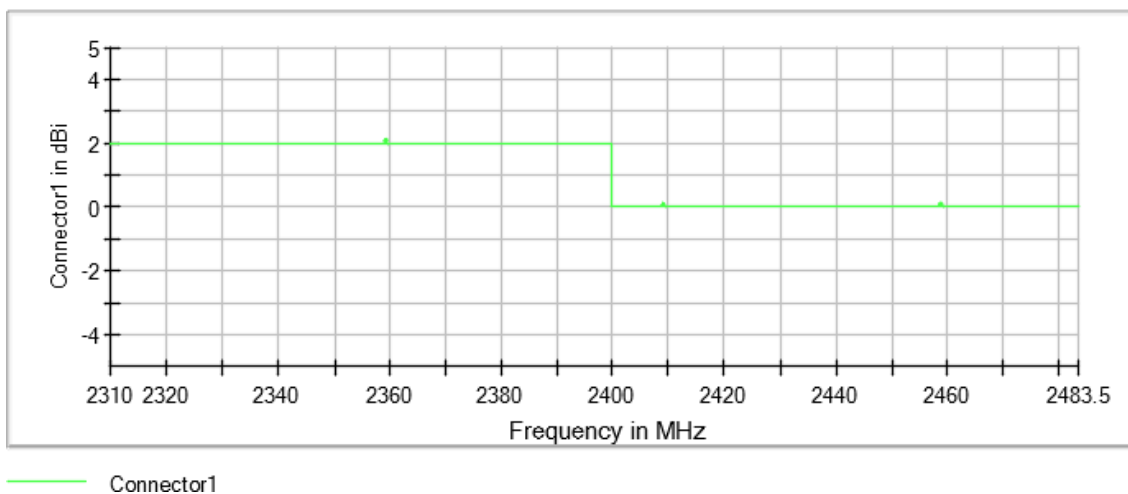
Modulation = BT (8DPSK 3-DH5)

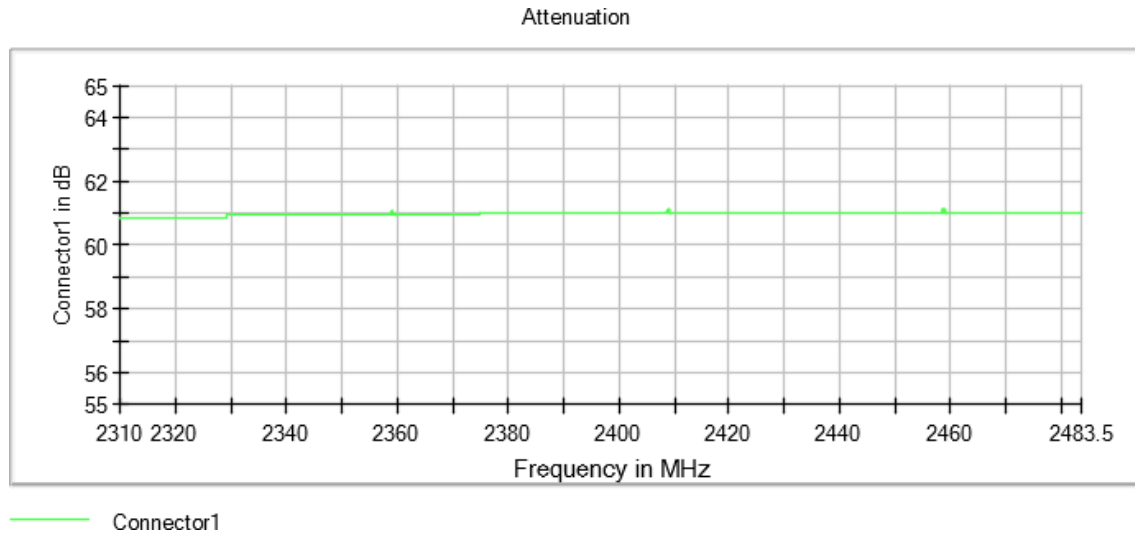
Images:

Band Edge



Gain





Operation Band MHz = [2400,
2483.5]

Equipment Type = Frequency Hopping Spread Spectrum systems
(DSS)

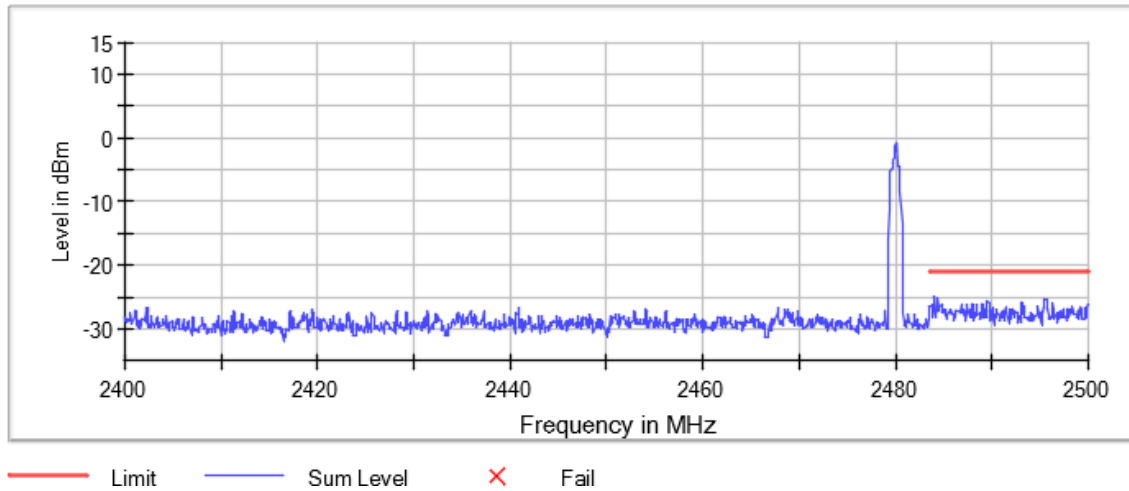
Frequency MHz = 2480.00000

Active Port = 1

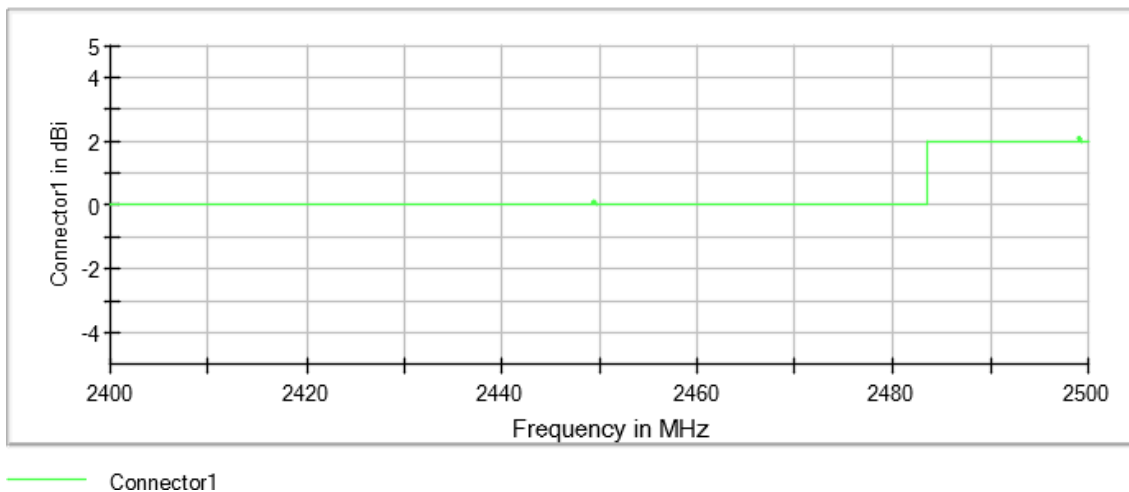
Modulation = BT (8DPSK 3-DH5)

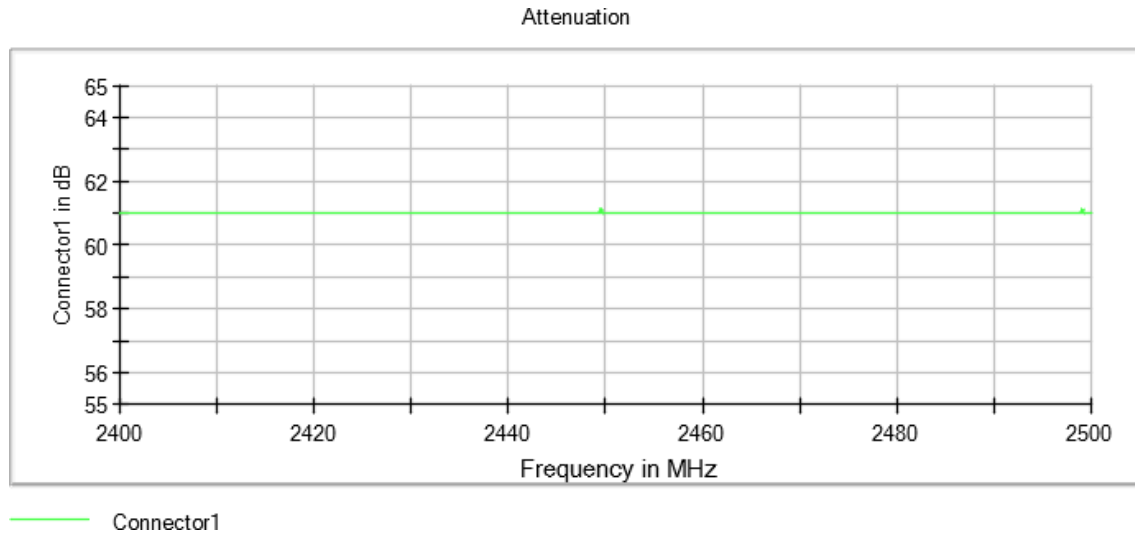
Images:

Band Edge



Gain





Modulation: BTLE 5.0 (GFSK 1 Mbit/s)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Inband Peak Lvl (dBm)	Freq (MHz)	Lvl (dBm)
[2400, 2483.5]	Digital Transmission System (DTS)	2402.00000	1	0.300	2326.275000	-24.6
				0.300	2355.875000	-24.7
				0.300	2396.025000	-24.9
				0.300	2326.225000	-25.0
				0.300	2355.925000	-25.1
				0.300	2396.075000	-25.3
				0.300	2326.325000	-25.3
				0.300	2338.325000	-25.4
				0.300	2356.925000	-25.4
				0.300	2356.975000	-25.4
				0.300	2357.625000	-25.4
				0.300	2338.275000	-25.5
				0.300	2355.825000	-25.5
				0.300	2357.575000	-25.6
				0.300	2310.825000	-25.7
		2480.00000		-1.000	2499.375000	-25.1
				-1.000	2499.325000	-25.1
				-1.000	2485.075000	-25.4
				-1.000	2484.125000	-25.5
				-1.000	2484.075000	-25.7
				-1.000	2485.125000	-25.7
				-1.000	2483.975000	-25.7
				-1.000	2484.025000	-25.8
				-1.000	2497.625000	-25.8
				-1.000	2494.125000	-25.8
				-1.000	2492.775000	-25.8
				-1.000	2494.075000	-25.9
				-1.000	2495.075000	-26.0
				-1.000	2489.725000	-26.0
				-1.000	2499.425000	-26.0

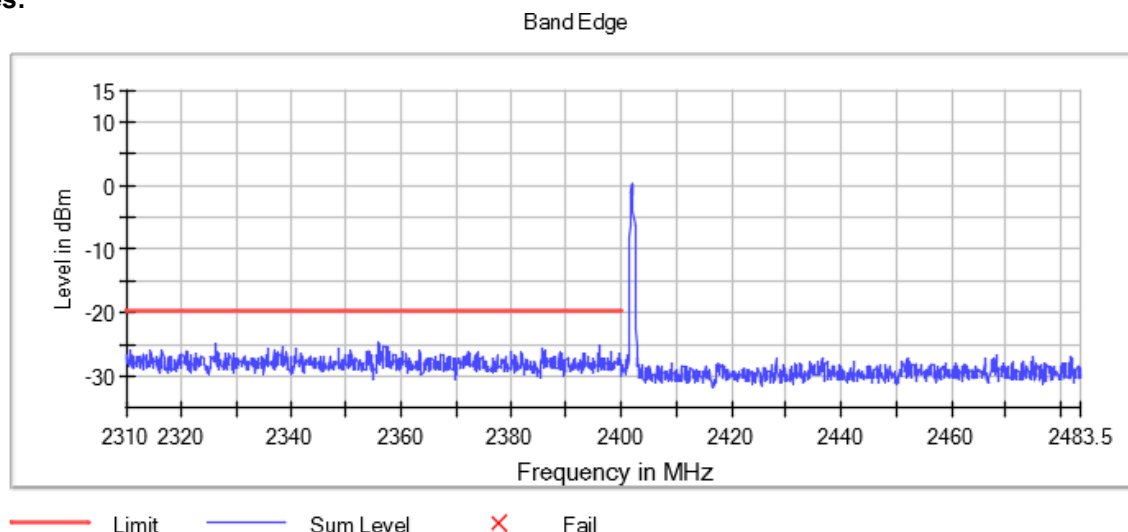
Verdict

Pass

Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2402.00000 Active Port = 1
Modulation = BTLE 5.0 (GFSK 1 Mbit/s)

Images:



Tables:

Spectrum Analyzer Parameters 1

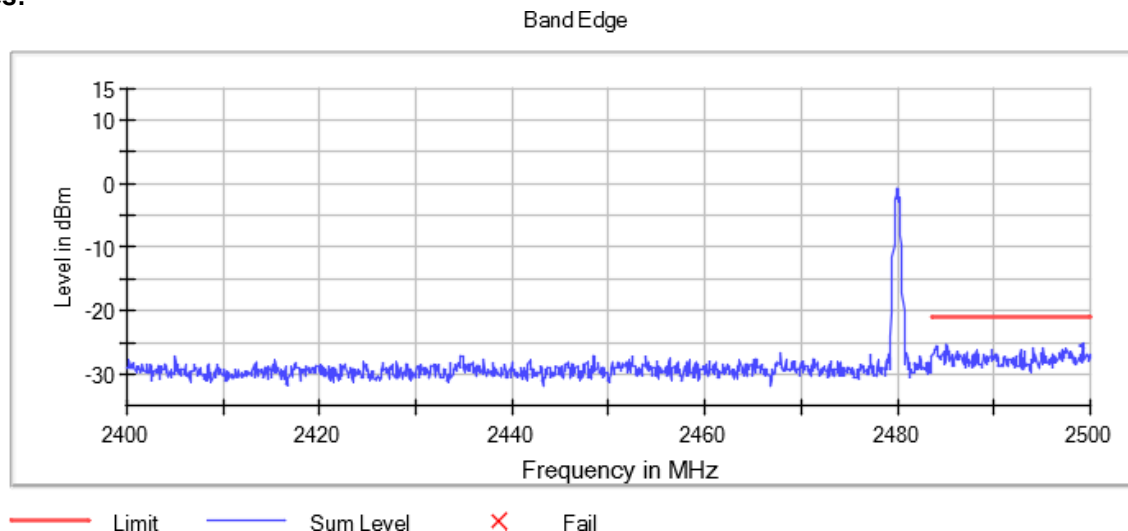
Setting	Instrument Value	Target Value
Start Frequency	2.31000 GHz	2.31000 GHz
Stop Frequency	2.40000 GHz	2.40000 GHz
Span	90.000 MHz	90.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
SweepTime	113.672 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Spectrum Analyzer Parameters 2

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
Sweeptime	94.727 µs	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.43 dB	0.50 dB

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)
Frequency MHz = 2480.00000 Active Port = 1
Modulation = BTLE 5.0 (GFSK 1 Mbit/s)

Images:



Tables:

Spectrum Analyzer Parameters 1

Setting	Instrument Value	Target Value
Start Frequency	2.31000 GHz	2.31000 GHz
Stop Frequency	2.40000 GHz	2.40000 GHz
Span	90.000 MHz	90.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
Sweeptime	113.672 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Spectrum Analyzer Parameters 2

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
Sweeptime	94.727 µs	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.43 dB	0.50 dB

Modulation: 802.11b (DSSS 1 Mbit/s)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Freq (MHz)	Lvl (dBμV/m)
[2400, 2483.5]	Digital Transmission System (DTS)	2412.00000	1	2399.50	55.00
		2462.00000	1	2484.43	52.00

Verdict

Pass

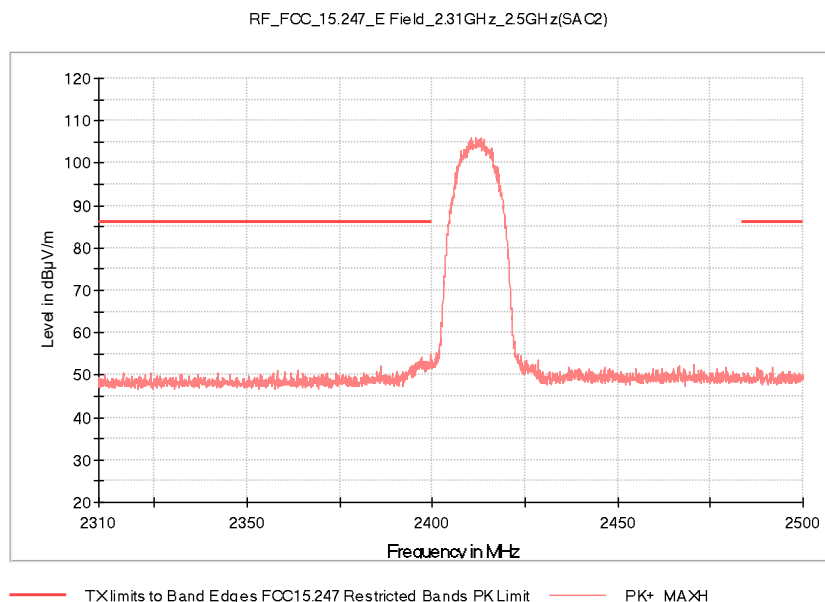
Attachments

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2412.00000 Active Port = 1

Modulation = 802.11b (DSSS 1 Mbit/s)

Images:



Tables:

Spectrum Analyzer Parameters 1

Setting	Instrument Value	Target Value
Start Frequency	2.31000 GHz	2.31000 GHz
Stop Frequency	2.40000 GHz	2.40000 GHz
Span	90.000 MHz	90.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
SweepTime	113.672 μs	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB

Setting	Instrument Value	Target Value
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Spectrum Analyzer Parameters 2

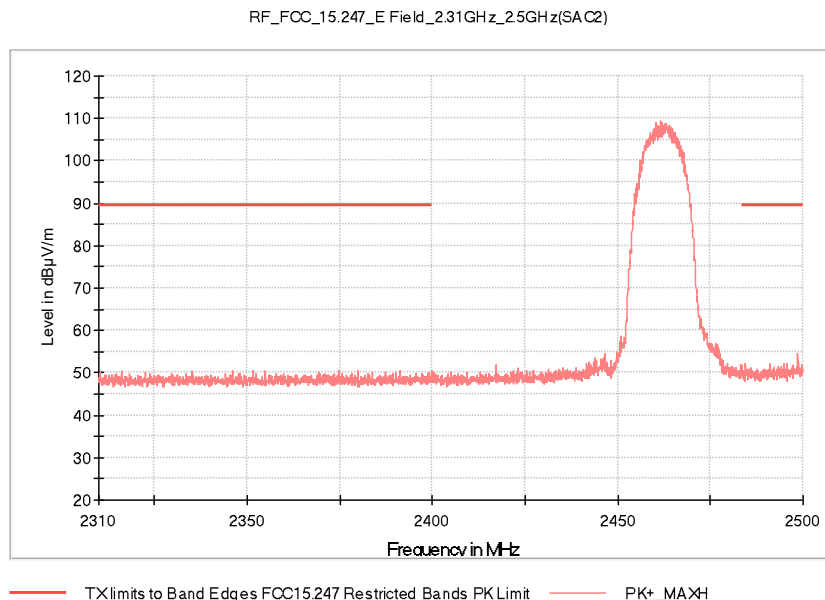
Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
SweepTime	94.727 µs	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	13 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.28 dB	0.50 dB

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2462.00000 Active Port = 1

Modulation = 802.11b (DSSS 1 Mbit/s)

Images:



Tables:

Spectrum Analyzer Parameters 1

Setting	Instrument Value	Target Value
Start Frequency	2.31000 GHz	2.31000 GHz
Stop Frequency	2.40000 GHz	2.40000 GHz
Span	90.000 MHz	90.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
SweepTime	113.672 μs	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150

Setting	Instrument Value	Target Value
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Spectrum Analyzer Parameters 2

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
SweepTime	94.727 µs	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	13 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.28 dB	0.50 dB

Modulation: 802.11g (OFDM 6 Mbit/s)

Results

Operation Band (MHz)	Equipment	Freq (MHz)	Port	Freq (MHz)	Lvl (dBµV/m)
[2400, 2483.5]	Digital Transmission System (DTS)	2412.00000	1	2399.500	73.70
		2462.00000	1	2484.000	65.20

Verdict

Pass

Attachments

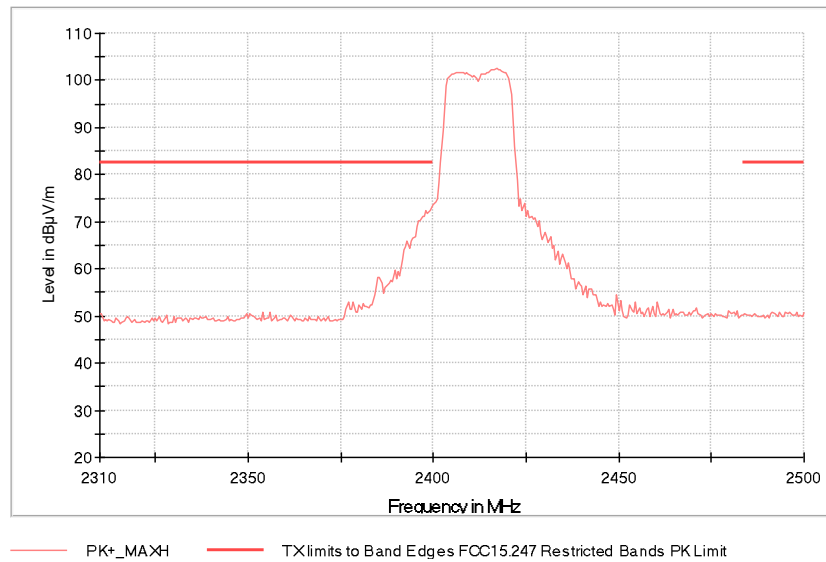
Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2412.00000 Active Port = 1

Modulation = 802.11g (OFDM 6 Mbit/s)

Images:

Copy of Copy of RF_FCC_15.247_E Field_1GHz_18GHz_HPF



Tables:

Spectrum Analyzer Parameters 1

Setting	Instrument Value	Target Value
Start Frequency	2.31000 GHz	2.31000 GHz
Stop Frequency	2.40000 GHz	2.40000 GHz
Span	90.000 MHz	90.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
Sweeptime	113.672 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Spectrum Analyzer Parameters 2

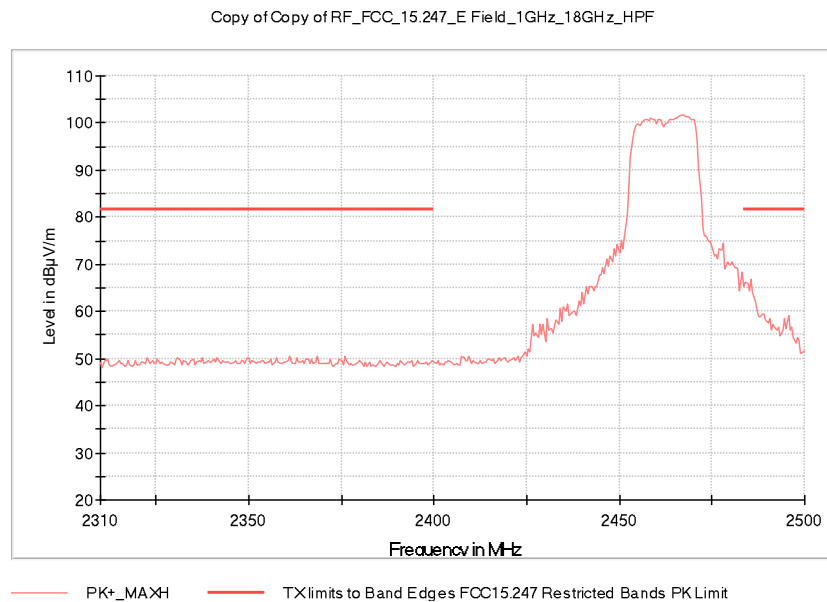
Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1670	~ 1670
SweepTime	94.727 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.42 dB	0.50 dB

Operation Band MHz = [2400, 2483.5] Equipment Type = Digital Transmission System (DTS)

Frequency MHz = 2462.00000 Active Port = 1

Modulation = 802.11g (OFDM 6 Mbit/s)

Images:



Tables:

Spectrum Analyzer Parameters 1

Setting	Instrument Value	Target Value
Start Frequency	2.31000 GHz	2.31000 GHz
Stop Frequency	2.40000 GHz	2.40000 GHz
Span	90.000 MHz	90.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	1800	~ 1800
Sweeptime	113.672 μ s	AUTO
Reference Level	-50.000 dBm	-50.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB