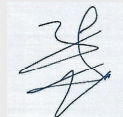


ISED CABid: ES1909
Lab. Company Number: 4621A

Test Report No:
78795RRF.002

Test Report

USA FCC Part 15.247, 15.209
CANADA RSS-247, RSS-Gen

(*) Identification of item tested	Hybrid Multisport Watch
(*) Trademark	Polar
(*) Model and /or type reference	6B
Other identification of the product	Commercial name: Vantage M3 FCC ID: INW6B IC: 6248A-6B
(*) Features	Bluetooth LE, GNSS: Dual band GNSS (L1 & L5), GPS, Galileo, Glonass, BDS HW version: 007112605.03 SW version: 2.0.0
Applicant	Polar Electro Oy Professorintie 5, 90440 Kempele, FINLAND
Test method requested, standard	USA FCC Part 15.247 (10-1-23 Edition): Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz. USA FCC Part 15.209 (10-1-23 Edition): Radiated emission limits; general requirements. CANADA RSS-247 Issue 3 (August 2023). CANADA RSS-Gen Issue 5 amendment 2 (February 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 C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Summary	IN COMPLIANCE
Approved by (name / position & signature)	José Manuel Gómez Galván EMC Consumer & RF Lab. Manager  Firmado digitalmente por 53680346W JOSE MANUEL GOMEZ (C:A29507456)
Date of issue	2024-08-29
Report template No	FDT08_25 (*) "Data provided by the client"

Index

INDEX2

ACRONYMS3

COMPETENCES AND GUARANTEES3

GENERAL CONDITIONS4

UNCERTAINTY4

DATA PROVIDED BY THE CLIENT4

USAGE OF SAMPLES6

TEST SAMPLE DESCRIPTION7

IDENTIFICATION OF THE CLIENT8

TESTING PERIOD AND PLACE8

DOCUMENT HISTORY8

ENVIRONMENTAL CONDITIONS8

REMARKS AND COMMENTS9

TESTING VERDICTS10

SUMMARY11

APPENDIX A: TEST RESULTS. BLUETOOTH LOW ENERGY (2M, 1M).....12

Acronyms

Acronym ID	Acronym Description
BW	Bandwidth
Detector	Detector used
Ebw	Emission Bandwidth
Equipment	Equipment Type
Freq	Frequency
Freq Rng	Frequency Range
Inband Peak Lvl	Inband Peak Level
Lvl	Level
MP	Measurement Point
Mod	Modulation
Mode	MIMO Mode
Occ Ch BW	Occupied Channel Bandwidth
PSD	Power Spectral Density
Peak Power	Maximum Peak Conducted Output Power
Pol	Polarization
Port	Active Port
Unwanted Freq	Unwanted Emissions Frequency
Unwanted Lvl	Unwanted Emissions Level

Competences and guarantees

DEKRA Testing and Certification S.A.U. is a testing laboratory accredited by the National Accreditation Body (ENAC -Entidad Nacional de Acreditación), to perform the tests indicated in the Certificate No. 51/LE 147.

DEKRA Testing and Certification S.A.U. is an FCC-recognized accredited testing laboratory with appropriate scope of accreditation that covers the performed tests in this report.

DEKRA Testing and Certification S.A.U. is an ISED-recognized accredited testing laboratory, CABid: ES1909, Company Number: 4621A, with the appropriate scope of accreditation that covers the performed tests in this report.

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

DEKRA Testing and Certification S.A.U. 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 Testing and Certification S.A.U. at the time of performance of the test.

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2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
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4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Testing and Certification S.A.U. and the Accreditation Bodies.

Uncertainty

Uncertainty (factor $k=2$) was calculated according to the DEKRA Testing and Certification S.A.U. internal document PODT000.

The total uncertainty of the measurement system for the radiated emissions of EUT from 30 MHz to 1 GHz is:
Measurement uncertainty $\leq \pm 5,35$ dB with factor ($k = 2$).

The total uncertainty of the measurement system for the radiated emissions of EUT from 1 GHz to 17 GHz is:
Measurement uncertainty $\leq \pm 4,32$ dB with factor ($k = 2$).

The total uncertainty of the measurement system for the radiated emissions of EUT from 17 GHz to 26 GHz is:
Measurement uncertainty $\leq \pm 5,51$ dB with factor ($k = 2$).

The total uncertainty of the measurement system for the conducted testing of EUT is:

RF Peak Output Power: Measurement uncertainty $\leq \pm 0,80$ dB

RF Average Output Power: Measurement uncertainty $\leq \pm 0,99$ dB

Power Spectral Density: Measurement uncertainty $\leq \pm 0,99$ dB

6dB Bandwidth: Measurement uncertainty $\leq \pm 2,84$ %

Occupied Channel Bandwidth: Measurement uncertainty $\leq \pm 1,17$ %

Conducted Band-edge spurious emissions: Measurement uncertainty $\leq \pm 1,76$ 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 Hybrid Multisport Watch. Hybrid Multisport Watch with Bluetooth low-energy connectivity and wrist-based optical heart rate.
3. Document of "Similarity declaration" about hardware version update.

Finland, August 14th 2024

Declaration letter of similarity

Product under test: 6B, Vantage M3

We declare as authorized responsible person, that the products above have HW changes which have only impact in GNSS construction.

The SW version used on both versions will be the same.

The HW version is changed from '007112605.02' version to '007112605.03' version. These HW changes do not impact on the RF characteristics of the BTLE technology. These HW changes are based on to improve frequency drifting stability in different temperatures.

Sincerely,



Petri Ikonen
Senior Specialist, Product Approvals
E-Mail: petri.ikonen@polar.com
Phone: +358 401 813 149

POLAR®

Polar Electro Oy, Professorintie 5, FI-00440 KEMPELE, Tel. +358 (0)8 5202 100, www.polar.com
Business ID 0209911-2, VAT FI02099112, Domicile: Kempele

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of results. The laboratory is not responsible for such information and it is not covered by accreditation.

Usage of samples

Samples undergoing test have been selected by: The client.

Id	Control Number	Description	Model	Serial N°	Date of Reception	Application
S/01	78795_7	Hybrid Multisport Watch	6B	F4236C1800008	2024-06-20	Element Under Test
S/01	78795_3	USB charging cable	-	-	2024-06-20	Auxiliary Element
S/02	78795_2	Hybrid Multisport Watch	6B	F436C1800010	2024-06-20	Element Under Test
S/02	78795_3	USB charging cable	-	-	2024-06-20	Auxiliary Element

Notes referenced to samples during the project:

Id	Type
S/01	Conducted tests. The hardware version of this sample is 007112605.02 (see document “Similarity declaration” of page 5).
S/02	Radiated tests. The hardware version of this sample is 007112605.02 (see document “Similarity declaration” of page 5).

Test sample description

Ports..... :	Port name and description	Cable					
		Specified max length [m]	Attached during test	Shielded			
	USB port	0.6	[X]	[]			
Supplementary information to the ports..... :							
Rated power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	[]	AC:	[]	[]	[]	[]	[]
[X]	DC: 3.85 Vdc						
Rated Power	1.24 W						
Clock frequencies..... :	32 MHz, 26 MHz, 24 MHz, 32.768 kHz						
Other parameters							
Software version	2.0.0						
Hardware version	007112605.03						
Dimensions in cm (W x H x D)							
Mounting position	[]	Table top equipment					
	[]	Wall/Ceiling mounted equipment					
	[]	Floor standing equipment					
	[X]	Hand-held equipment					
	[]	Other:					
Modules/parts..... :	Module/parts of test item			Type	Manufacturer		
							
Accessories (not part of the test item)	Description			Type	Manufacturer		
							
Documents as provided by the applicant..... :	Description			File name	Issue date		
							

(3) Only for Medical Equipment

Identification of the client

Polar Electro Oy
Professorintie 5, 90440 Kempele, FINLAND

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2024-07-10
Date (finish)	2024-07-10

Document history

Report number	Date	Description
78795RRF.002	2024-08-29	First release.

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. = 20 % Max. = 75 %

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

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %

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. = 20 % Max. = 75 %

Remarks and comments

The tests have been performed by the technical personnel: Alvaro Gutierrez Naranjo, Carmen Vazquez Perez and Valentin Andarias Diaz.

Used instrumentation:

Control No.	Equipment	Model	Manufacturer	Next Calibration
07445	DC POWER SUPPLY 30V/5A	U8002A	KEYSIGHT TECHNOLOGIES	N/A
05850	DIGITAL MULTIMETER	179	FLUKE	2024-11-02
07760	DIGITAL MULTIMETER	175	FLUKE	2024-11-08
07817	EMI TEST RECEIVER 2Hz-44GHz	ESW44	ROHDE AND SCHWARZ	2026-07-01
06615	ETHERNET TEMPERATURE AND HUMIDITY LOGGER	HWg-STE	HW GROUP	2025-04-04
06609	ETHERNET TEMPERATURE AND HUMIDITY LOGGER	HWg-STE	HW GROUP	2025-04-22
07040	EXTENSION FOR OPEN SWITCH UNIT UP TO 40GHz	OSP-B157Wx	ROHDE AND SCHWARZ	2025-04-19
09029	HIGH PASS FILTER 17-40 GHZ	STHP-17-40G-92	TEMSTRON/TEM WELL	2025-03-29
08770	HIGH PASS FILTER 3-18 GHZ	ST-3GA2833-HS	TEMSTRON/TEM WELL	2024-07-27
06496	HORN ANTENNA 1-18GHz	BBHA 9120 D	SCHWARZBECK	2026-12-01
04657	HORN ANTENNA 18-40GHz	BBHA 9170	SCHWARZBECK	2026-06-12
06143	HYBRID BILOG ANTENNA 30MHz-6GHz	3142E	ETS LINDGREN	2027-01-22
07656	LOW PASS FILTER TEMSTRON/TEMWELL DC - 1 GHZ	ST-1GA3250-LS	TEMSTRON/TEM WELL	2025-02-02
07193	MULTI-DEVICE CONTROLLER	CO3000	INNCO	N/A
08848	OPEN SWITCH UNIT UP TO 7.5 GHz	OSP-B157W8 PLUS	ROHDE & SCHWARZ	2024-12-21
00922	POWER SUPPLY DC 40 V / 40 A	NGPE 40/40	ROHDE AND SCHWARZ	N/A
08856	PRE-AMPLIFIER G>30dB 18-40GHz	BLMA 1840-4A	BONN ELEKTRONIK	2025-02-27
03783	PRE-AMPLIFIER G>30dB 1GHz-18GHz	BLMA 0118-3A	BONN ELEKTRONIK	2025-03-15
06142	PRE-AMPLIFIER G>38dB 30MHz-6GHz	BLNA 0360-01N	BONN ELEKTRONIK	2024-06-28
06144	PRE-AMPLIFIER G>40dB 10MHz-6GHz	BLNA 0160-01N	BONN ELEKTRONIK	2024-07-25
06791	SEMIANECHOIC ABSORBER LINED CHAMBER IV	FACT 3 200 STP	ETS LINDGREN	N/A

Control No.	Equipment	Model	Manufacturer	Next Calibration
06793	SHIELDED ROOM	S101	ETS LINDGREN	N/A
07794	SIGNAL AND SPECTRUM ANALYZER 10Hz-40GHz	FSV40	ROHDE AND SCHWARZ	2025-04-21
06668	SIGNAL AND SPECTRUM ANALYZER 10Hz-40GHz	FSV40	ROHDE AND SCHWARZ	2024-12-14
04848	SOFTWARE FOR EMC/RF TESTING	EMC32	ROHDE AND SCHWARZ	N/A
06611	TEMPERATURE AND HUMIDITY PROBE	HWg-STE	HW GROUP	2025-04-04
07798	WMS32	WMS32	ROHDE AND SCHWARZ	N/A

Testing verdicts

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

Summary

Bluetooth Low Energy (2M, 1M):

FCC PART 15 PARAGRAPH/ RSS-247			
Requirement – Test case		Verdict	Remark
FCC 15.247 (a)(2) / RSS-247 5.2. (a)	6 dB Bandwidth	P	
FCC 15.247 (b) / RSS-247 5.4. (d)	Maximum output power and antenna gain	P	
FCC 15.247 (d) / RSS-247 5.5.	Band-edge emissions compliance (Transmitter)	P	
FCC 15.247 (e) / RSS-247 5.2. (b)	Power spectral density	P	
FCC 15.247 (d) / RSS-247 5.5.	Emission limitations radiated (Transmitter)	P	
<u>Supplementary information and remarks:</u>			
None.			

Appendix A: Test results. Bluetooth Low Energy (2M, 1M)

TEST CONDITIONS	14
TEST CASES DETAILS	17
<i>99dBw Occupied Channel Bandwidth 99%</i>	17
<i>RSS-247 5.2 (a) / FCC 15.247 (a) (2) [6dBw] 6 dB Bandwidth</i>	25
<i>RSS-247 5.2 (b) / FCC 15.247 (e) [Psd] Power spectral density</i>	33
<i>RSS-247 5.4 (d) / FCC 15.247 (b) (3) [Pkcp] Maximum Peak Conducted output power</i>	41
<i>RSS-247 5.5 / FCC 15.247 (d) [Bndedge] Band-edge emissions compliance (Transmitter)</i>	49
<i>RSS-247 5.5 / FCC 15.247 (d) [RSE] Emission limitations radiated (Transmitter)</i>	53

TEST CONDITIONS

(*): Data provided by the client.

POWER SUPPLY (*):

Vnominal: 3.85 Vdc
Type of Power Supply: Battery

ANTENNA (*):

Type of Antenna: Internal L-antenna
Maximum Declared Antenna Gain: -1 dBi

TEST FREQUENCIES (*):

Modulation	Data rates	Low Channel:	Middle Channel	High Channel
BLE GFSK	1M 1 Mbps	2402 MHz	2440 MHz	2480 MHz
BLE GFSK	2M 2 Mbps	2402 MHz	2440 MHz	2480 MHz

During transmitter test the EUT was controlled by a SW tool provided by the client to operate in a continuous transmit mode on the modulation schemes and test channels as required.

CONDUCTED MEASUREMENTS:

The equipment under test was set up in a shielded room and it is connected to the TS8997 using a low loss RF cable. The reading of the spectrum analyser is corrected taking into account the cable loss.



RADIATED MEASUREMENTS:

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Bilog antenna for the range between 30 MHz to 1000 MHz and 1 GHz-17 GHz Double ridge horn antenna) is situated at a distance of 3 m and at a distance of 1.5 m for the frequency range 17 GHz-26 GHz (17 GHz-40 GHz horn antenna).

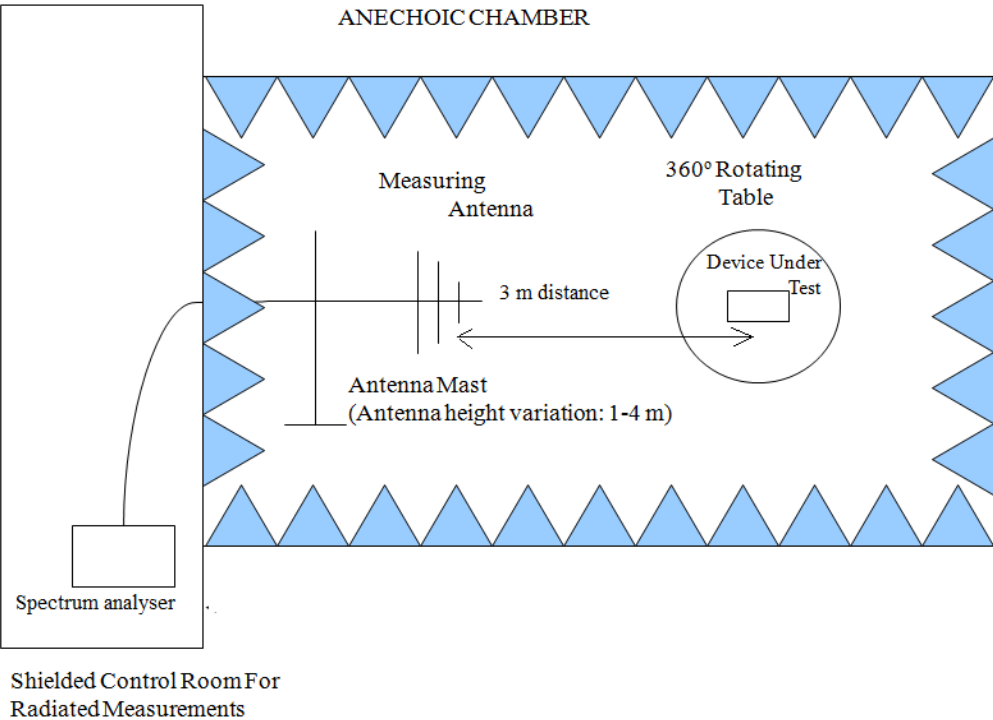
For radiated emissions in the range 17 GHz-26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height (Bilog antenna and Double ridge horn antenna) was varied from 1 to 4 meters to find the maximum radiated emission.

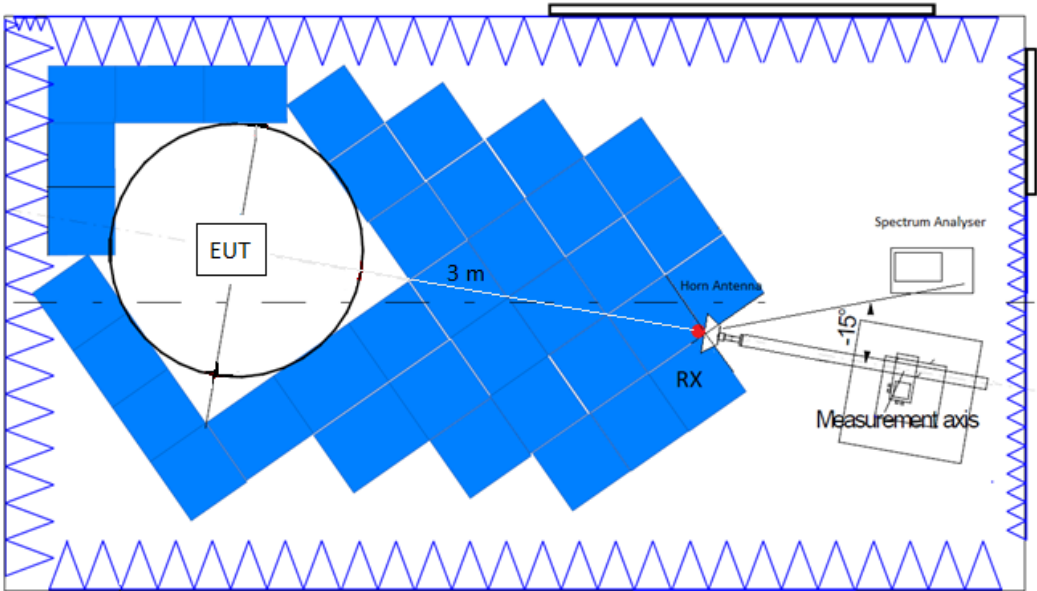
Measurements were made in both horizontal and vertical planes of polarization.

A resolution bandwidth/video bandwidth of 100 kHz / 300 kHz was used for frequencies below 1 GHz and 1 MHz / 3 MHz for frequencies above 1 GHz.

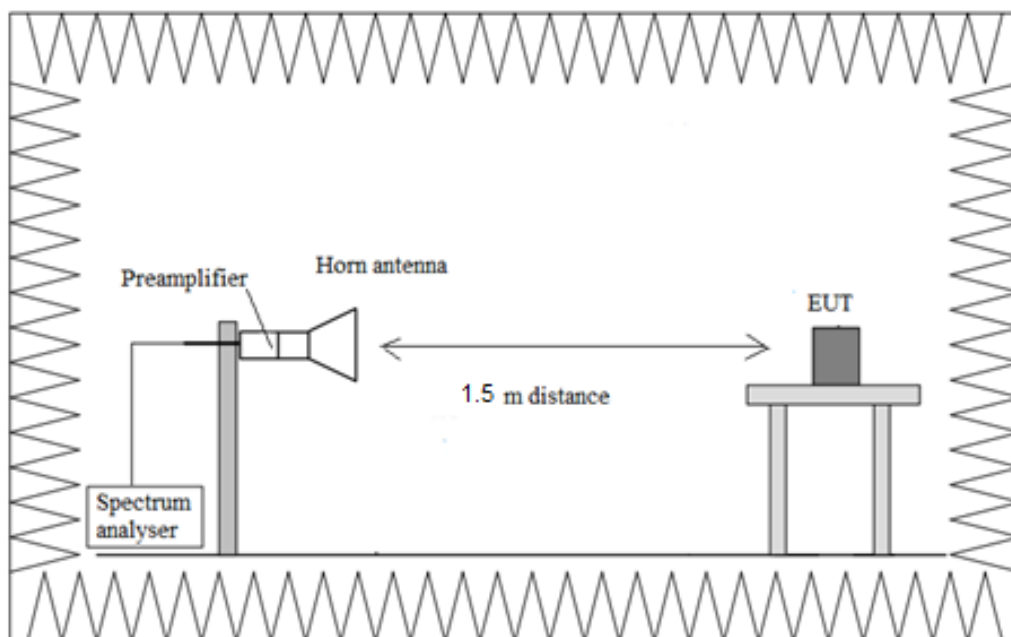
Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup from 1 GHz to 17 GHz:



Radiated measurements setup $f > 17$ GHz:



TEST CASES DETAILS

99dBw Occupied Channel Bandwidth 99%

Modulation: BLE 5.0 (GFSK 1 Mbps)

MIMO Mode: SISO

Results

Equipment	BW (MHz)	Freq (MHz)	Occ Ch BW (MHz)
Digital Transmission System (DTS)	1	2402	1.050
Digital Transmission System (DTS)	1	2440	1.050
Digital Transmission System (DTS)	1	2480	1.050

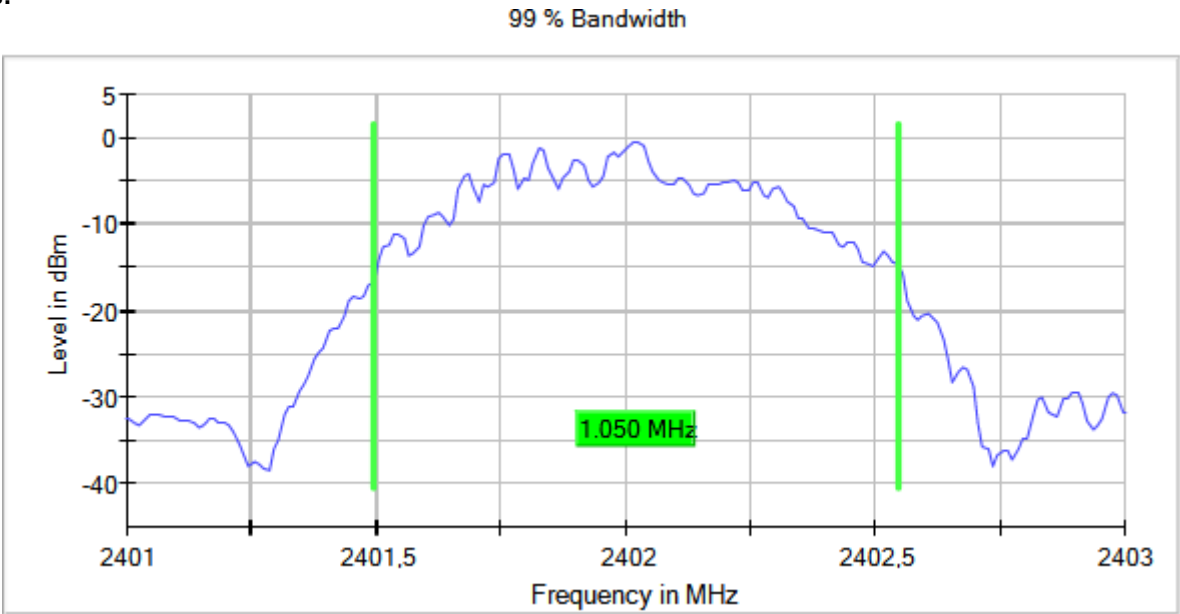
Verdict

Pass

Attachments

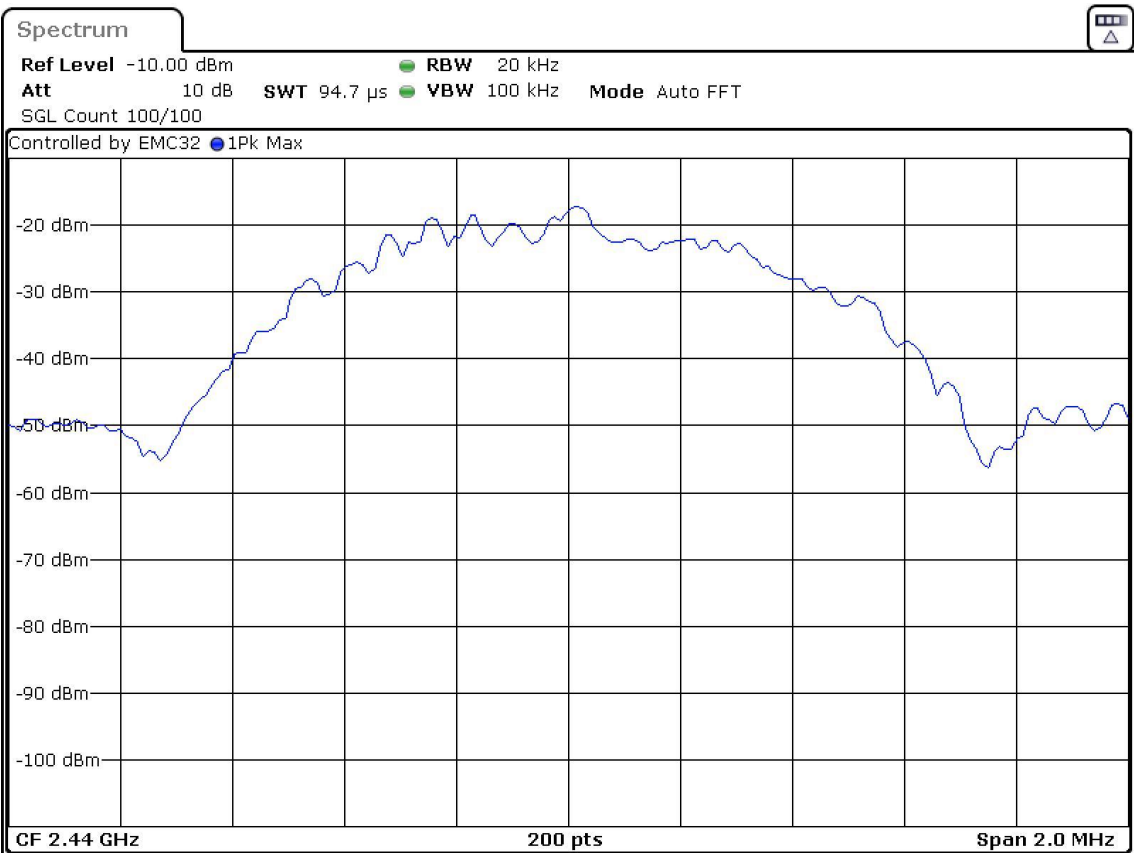
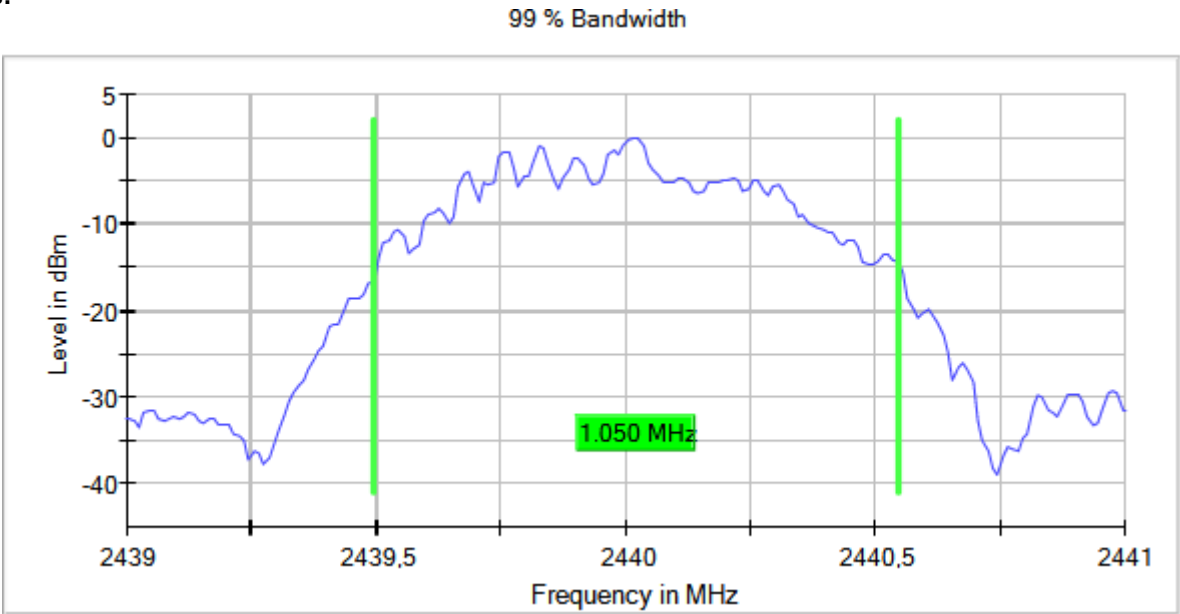
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2402
MIMO Mode = SISO Active Port = 1

Images:



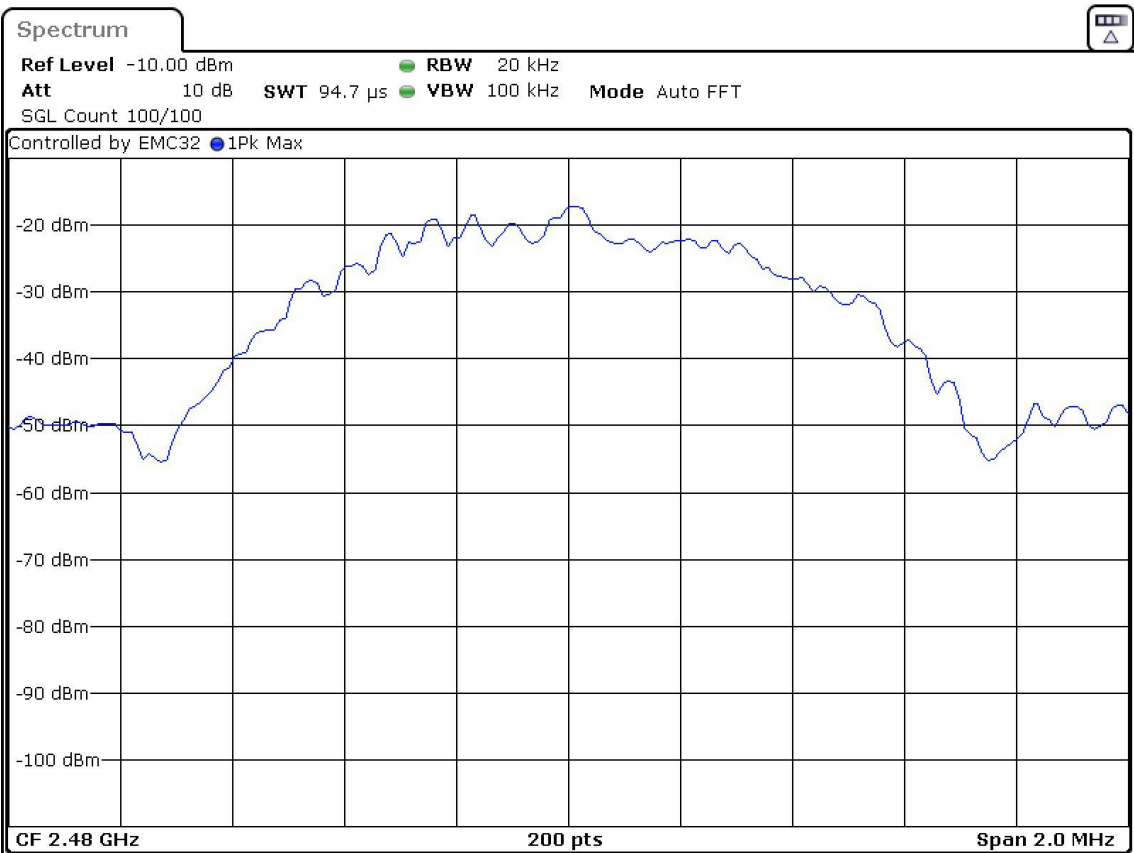
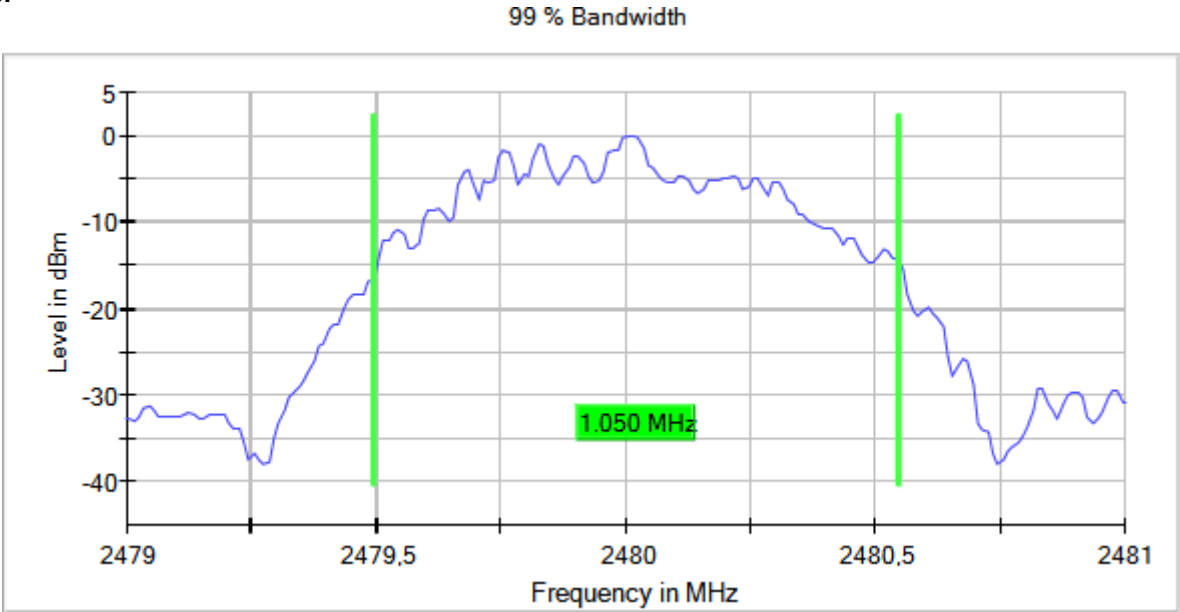
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2440
MIMO Mode = SISO Active Port = 1

Images:



Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2480
MIMO Mode = SISO Active Port = 1

Images:



Modulation: BLE 5.0 (GFSK 2 Mbps)

MIMO Mode: SISO

Results

Equipment	BW (MHz)	Freq (MHz)	Occ Ch BW (MHz)
Digital Transmission System (DTS)	2	2402	2.025
Digital Transmission System (DTS)	2	2440	2.050
Digital Transmission System (DTS)	2	2480	2.050

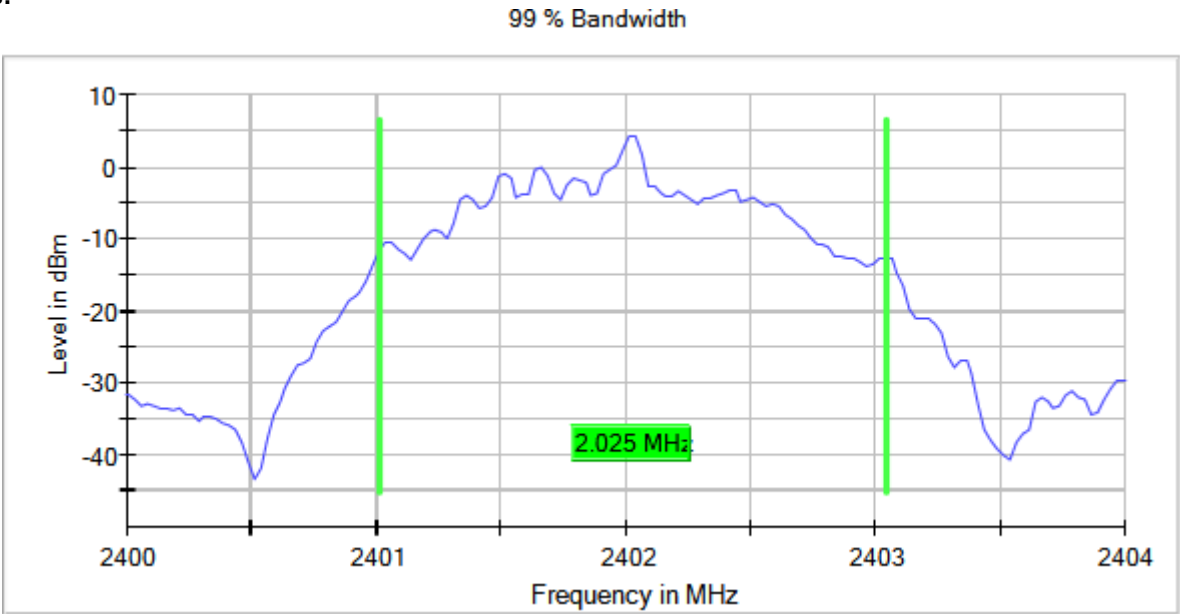
Verdict

Pass

Attachments

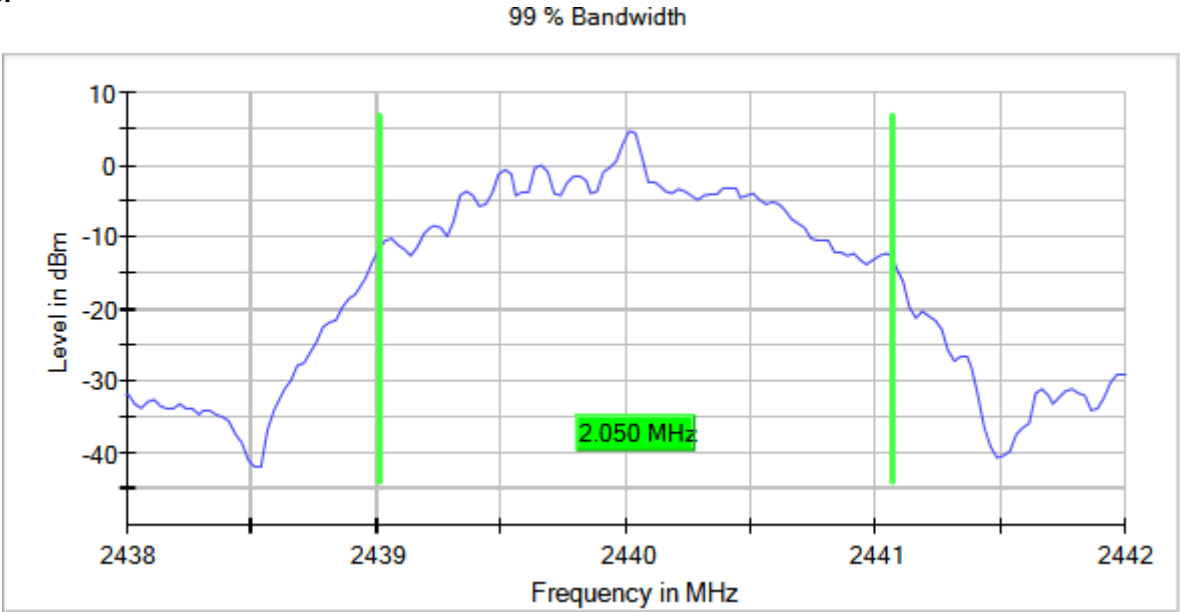
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 2
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2402
MIMO Mode = SISO Active Port = 1

Images:



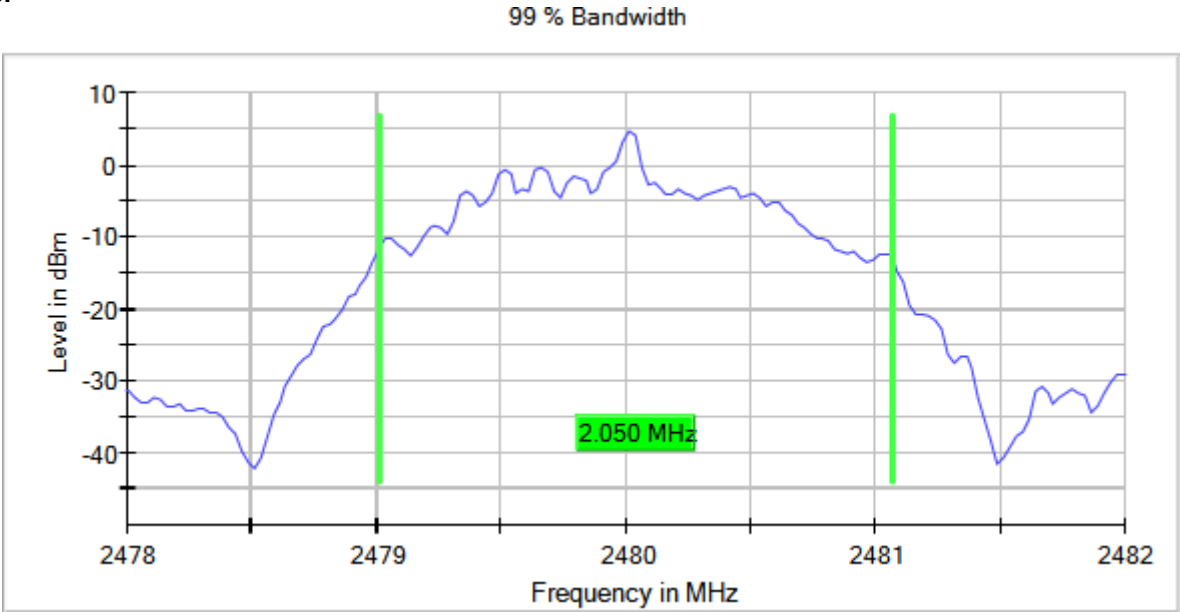
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 2
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2440
MIMO Mode = SISO Active Port = 1

Images:



Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 2
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2480
MIMO Mode = SISO Active Port = 1

Images:



RSS-247 5.2 (a) / FCC 15.247 (a) (2) [6dBw] 6 dB Bandwidth

Limits

The minimum 6 dB bandwidth shall be at least 500 kHz.

Modulation: BLE 5.0 (GFSK 1 Mbps)

MIMO Mode: SISO

Results

BW (MHz)	Freq (MHz)	Port	Ebw (MHz)
1	2402	1	0.733
	2440		0.733
	2480		0.733

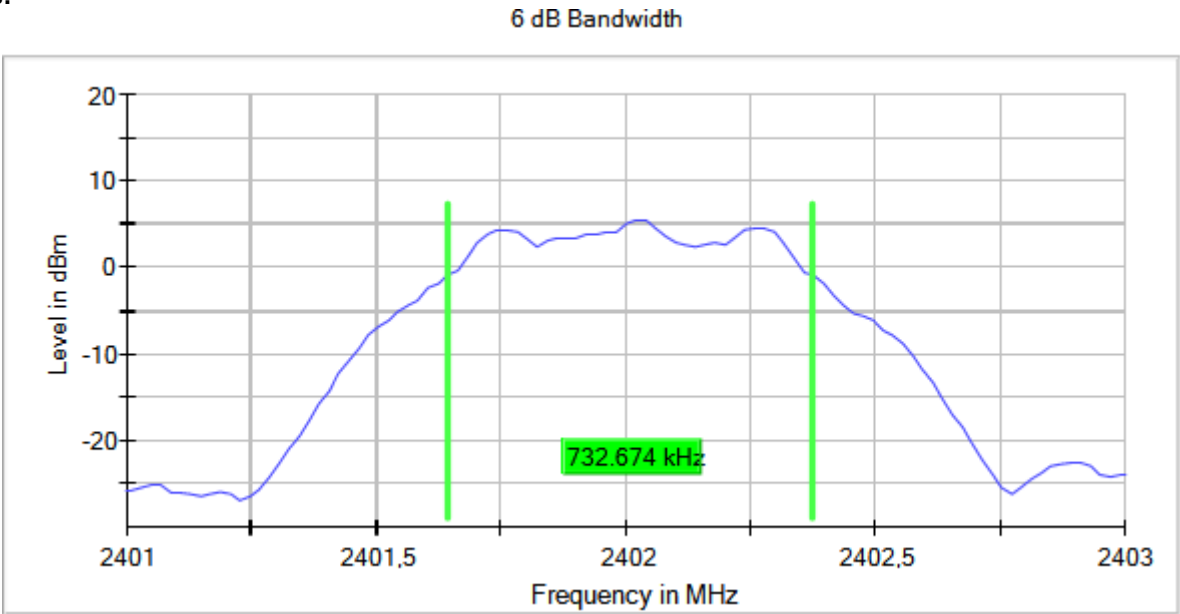
Verdict

Pass

Attachments

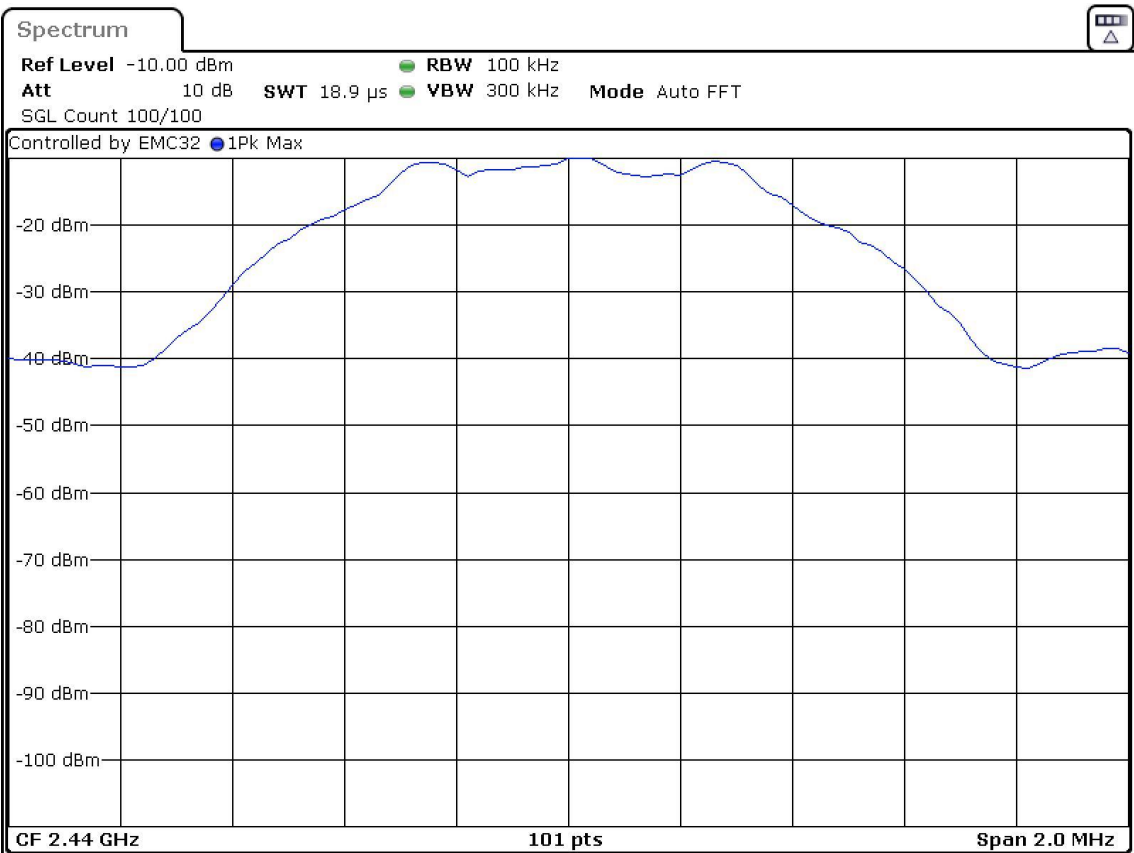
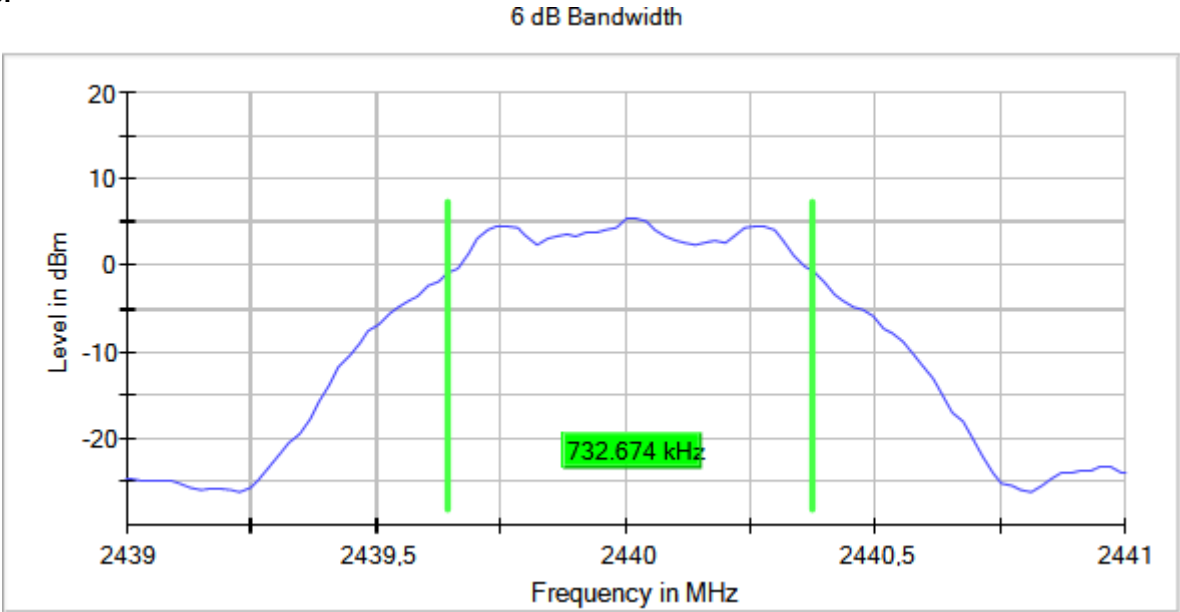
Bandwidth MHz = 1 Modulation = BLE 5.0 (GFSK 1 Mbps)
Frequency MHz = 2402 MIMO Mode = SISO
Active Port = 1

Images:



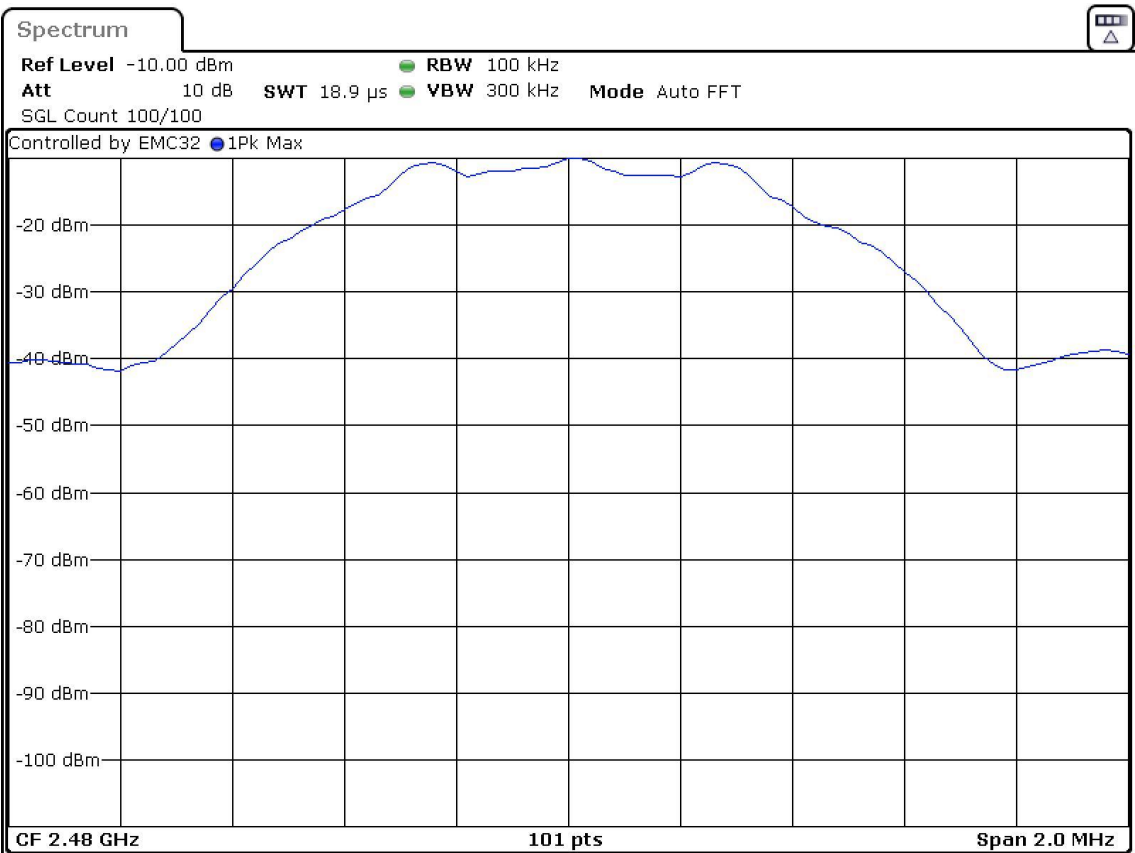
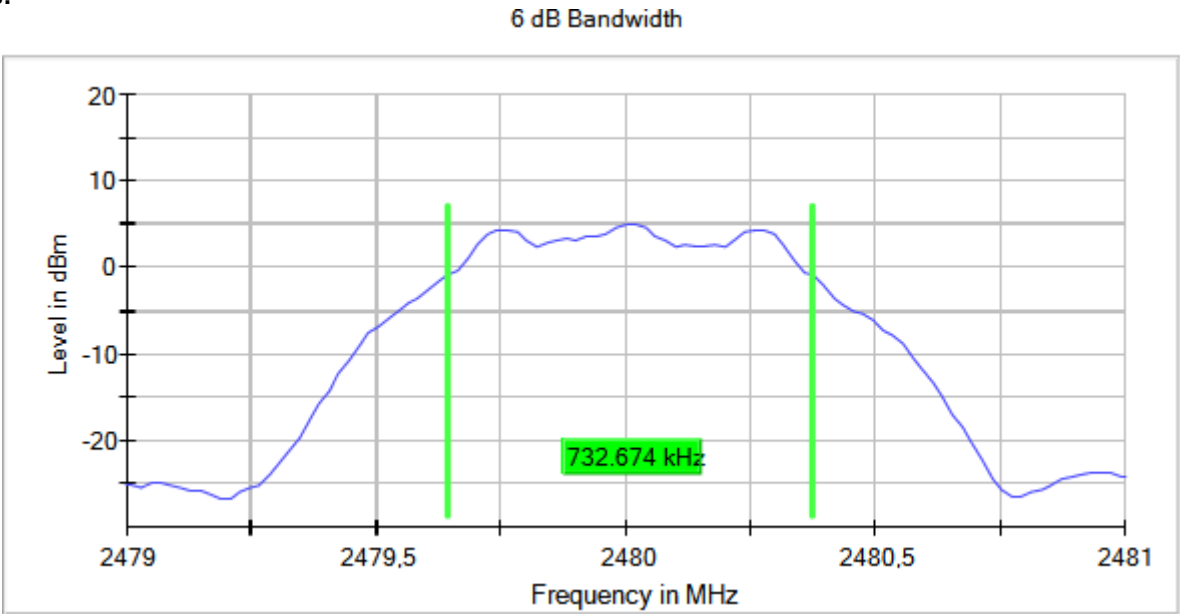
Bandwidth MHz = 1 Modulation = BLE 5.0 (GFSK 1 Mbps)
Frequency MHz = 2440 MIMO Mode = SISO
Active Port = 1

Images:



Bandwidth MHz = 1 Modulation = BLE 5.0 (GFSK 1 Mbps)
Frequency MHz = 2480 MIMO Mode = SISO
Active Port = 1

Images:



Modulation: BLE 5.0 (GFSK 2 Mbps)

MIMO Mode: SISO

Results

BW (MHz)	Freq (MHz)	Port	Ebw (MHz)
2	2402	1	1.228
	2440		1.228
	2480		1.228

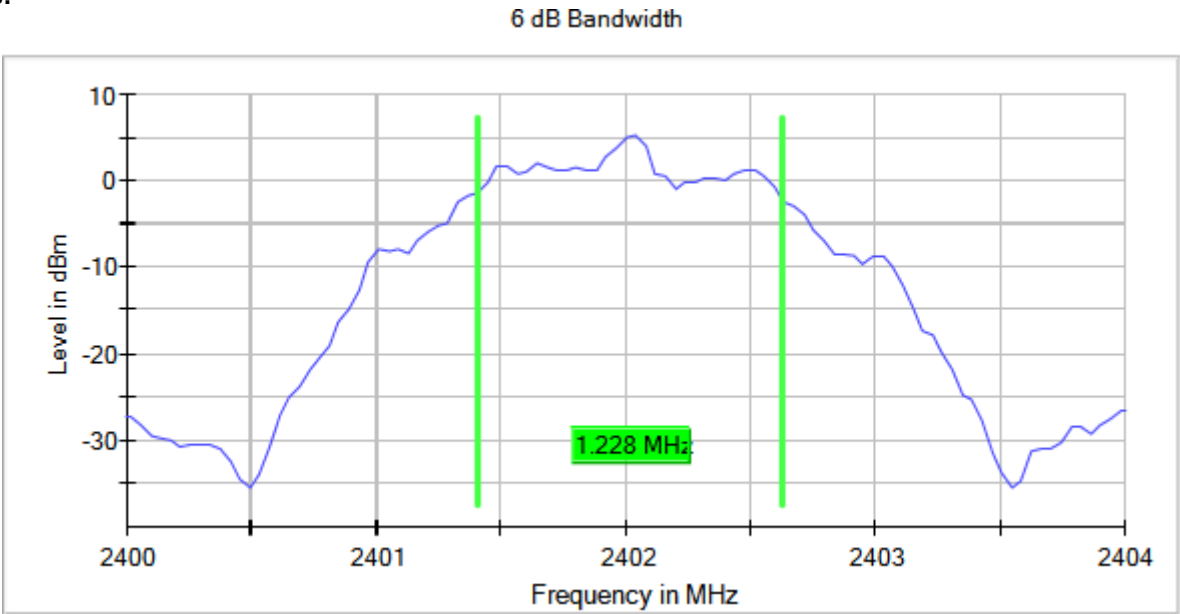
Verdict

Pass

Attachments

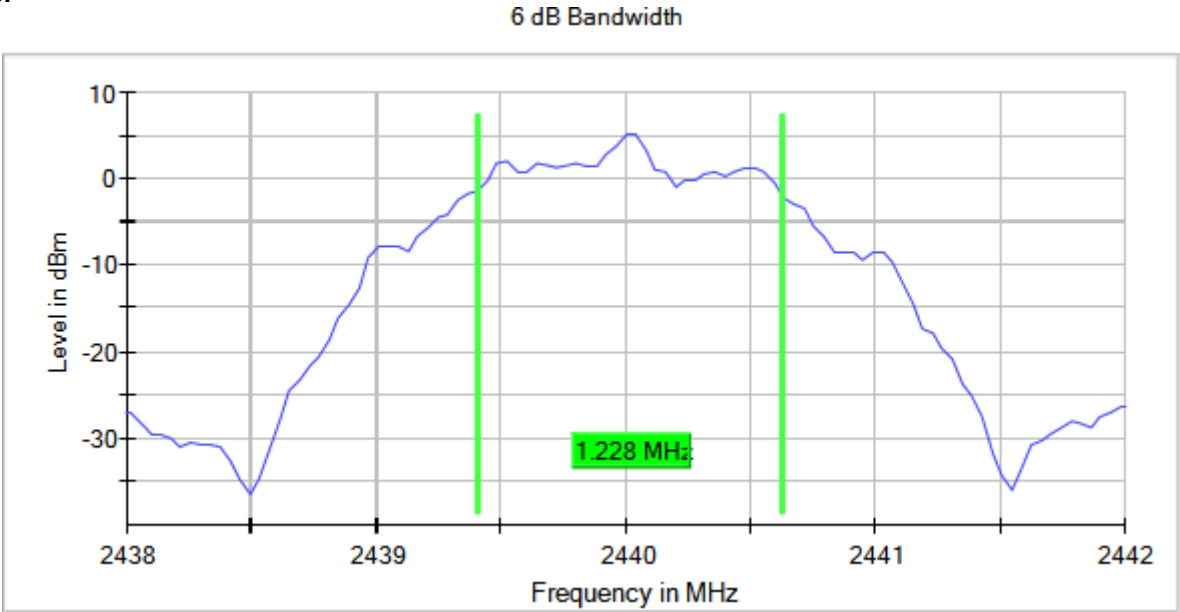
Bandwidth MHz = 2 Modulation = BLE 5.0 (GFSK 2 Mbps)
Frequency MHz = 2402 MIMO Mode = SISO
Active Port = 1

Images:



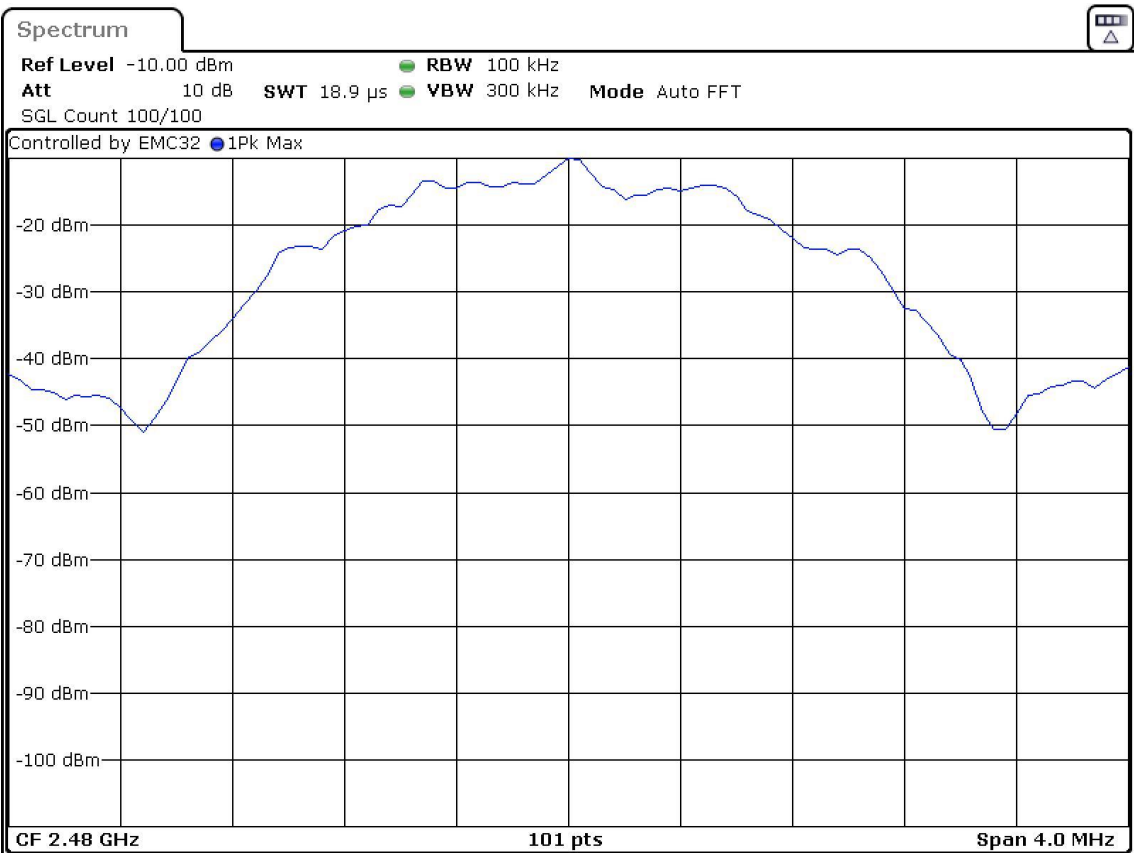
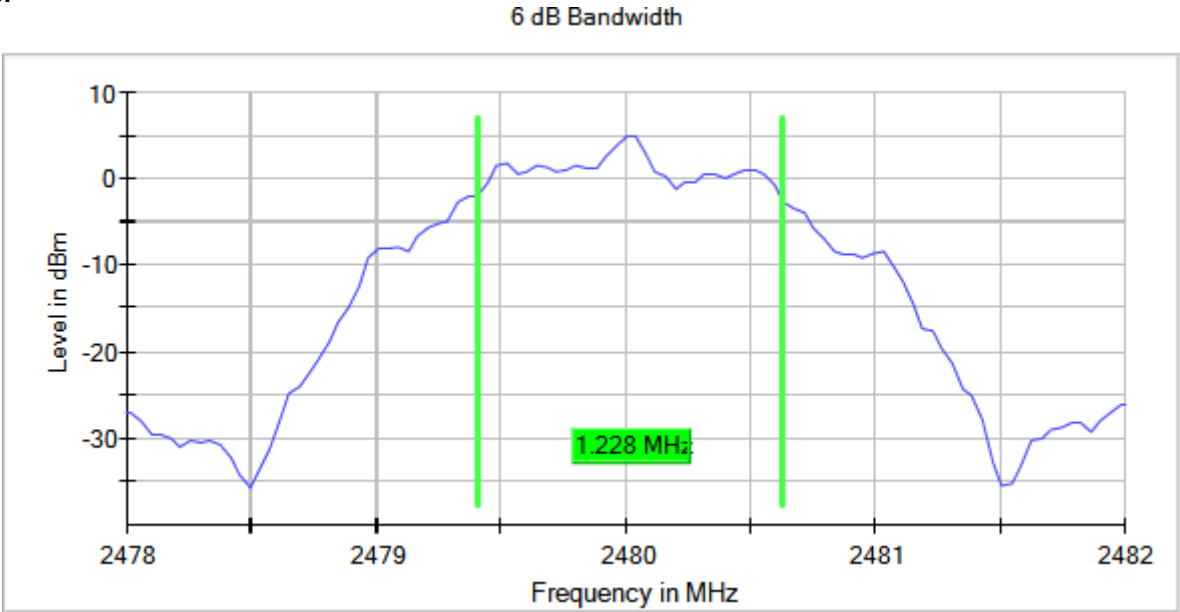
Bandwidth MHz = 2 Modulation = BLE 5.0 (GFSK 2 Mbps)
Frequency MHz = 2440 MIMO Mode = SISO
Active Port = 1

Images:



Bandwidth MHz = 2 Modulation = BLE 5.0 (GFSK 2 Mbps)
Frequency MHz = 2480 MIMO Mode = SISO
Active Port = 1

Images:



RSS-247 5.2 (b) / FCC 15.247 (e) [Psd] Power spectral density

Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Modulation: BLE 5.0 (GFSK 1 Mbps)

MIMO Mode: SISO

Results

Equipment	BW (MHz)	Freq (MHz)	Port	PSD (dBm)
Digital Transmission System (DTS)	1	2402	1	-4.37
		2440		-4.25
		2480		-4.49

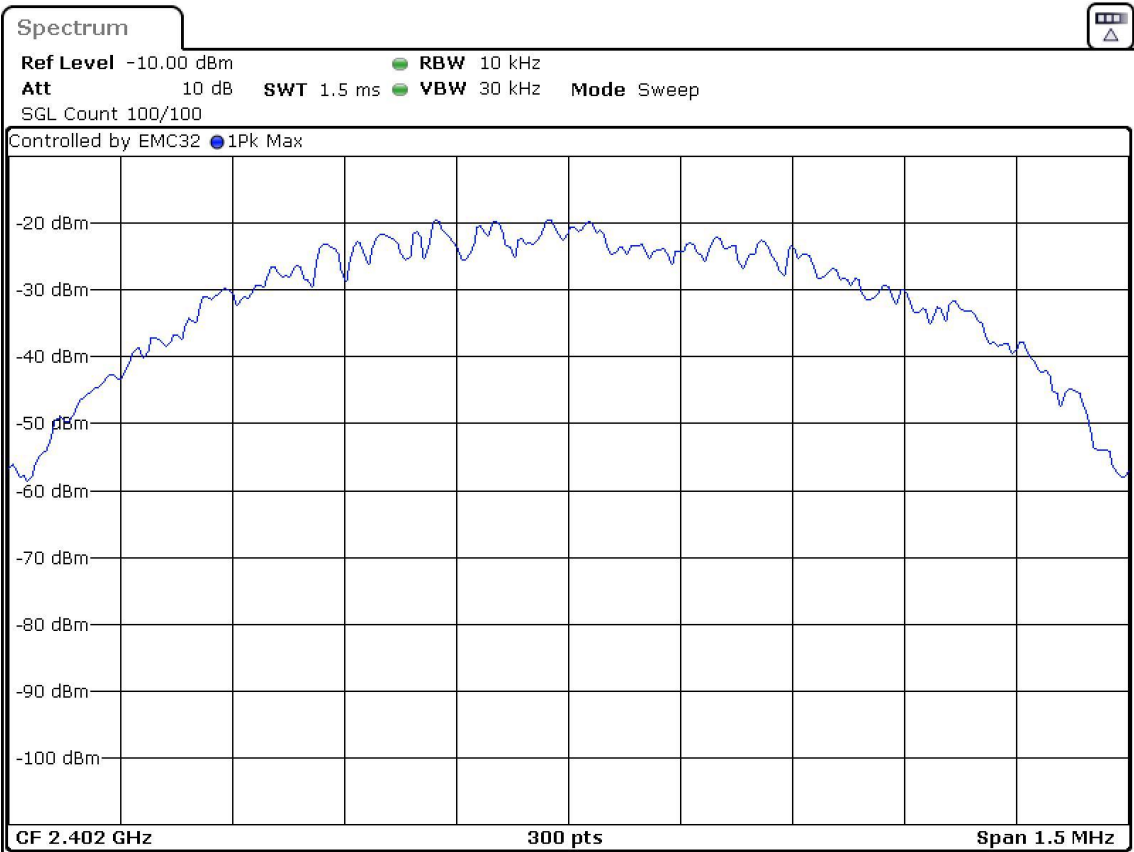
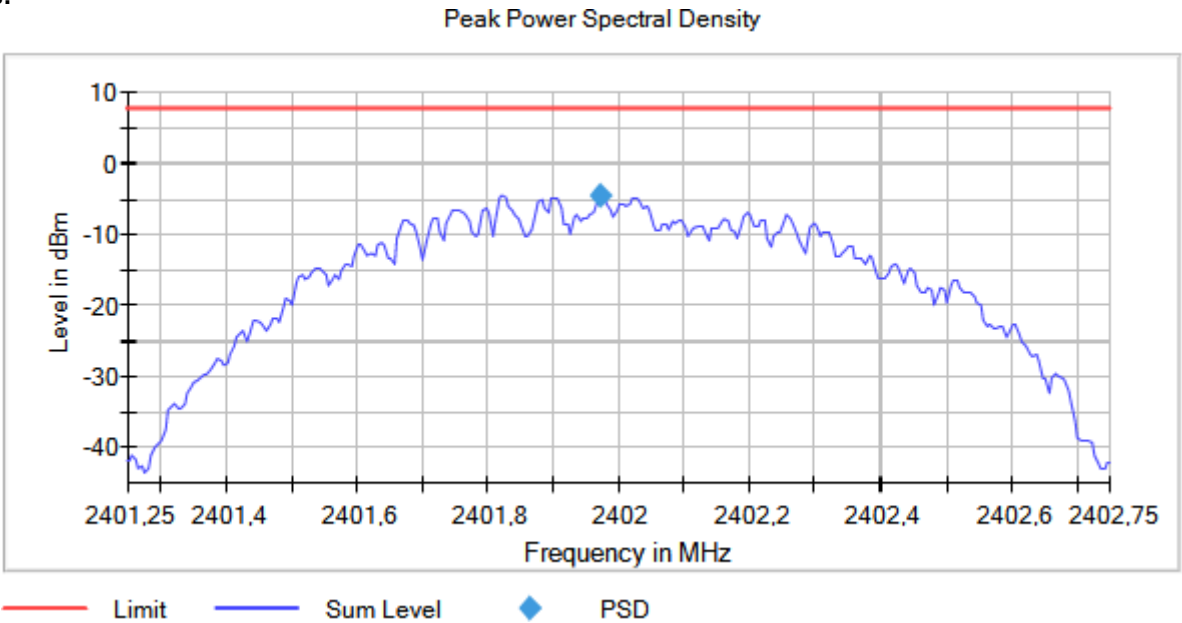
Verdict

Pass

Attachments

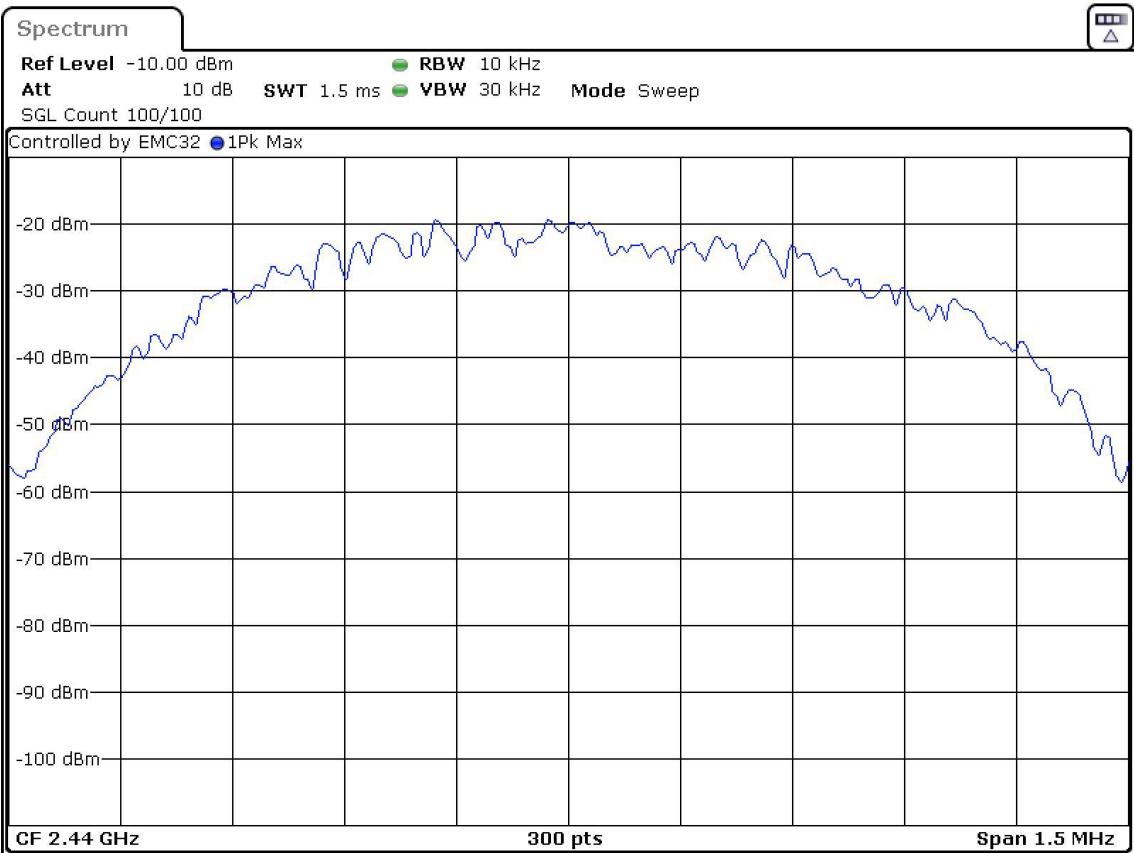
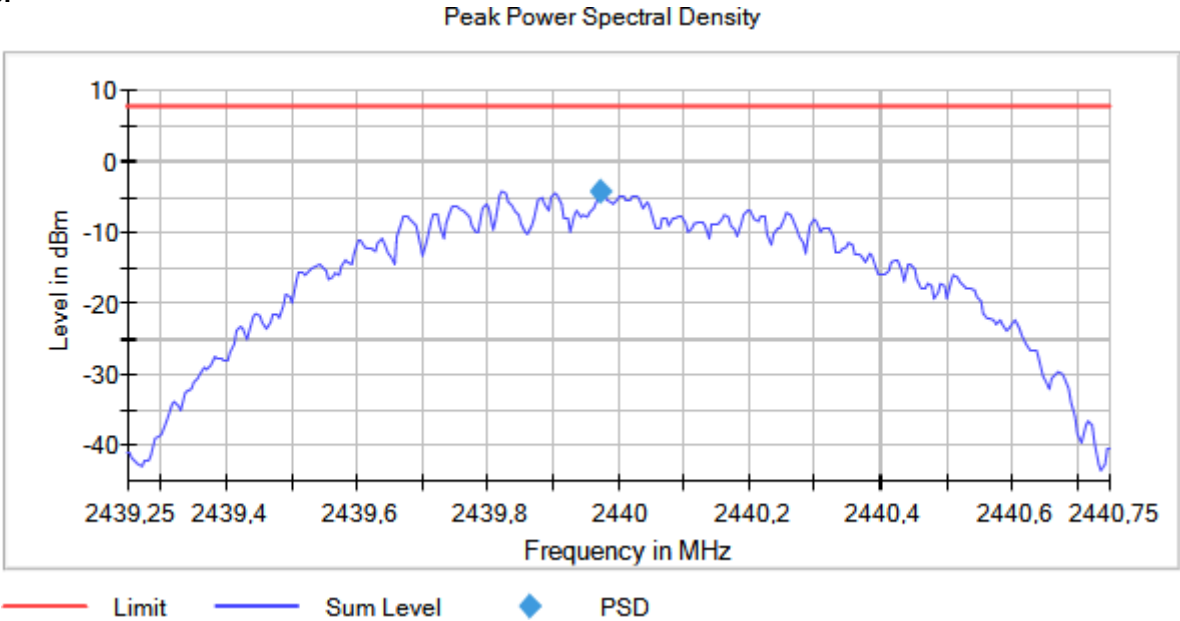
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2402
MIMO Mode = SISO Active Port = 1

Images:



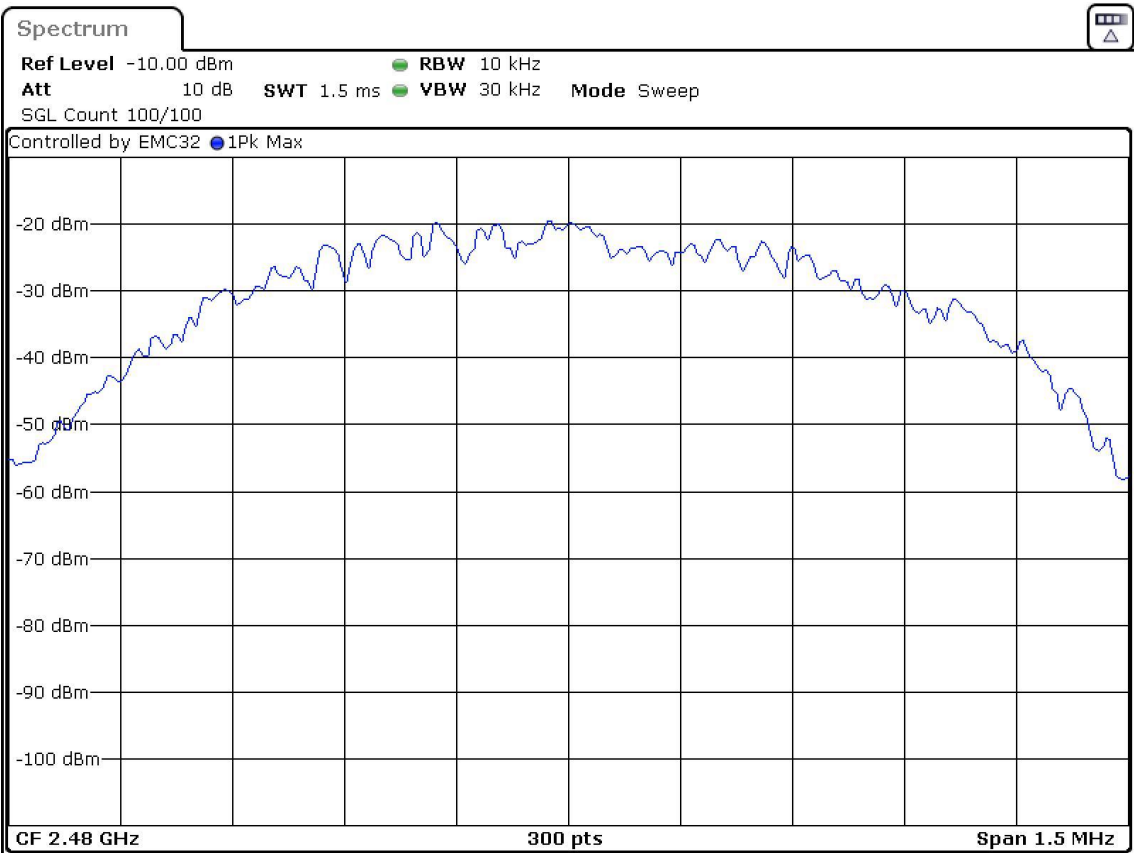
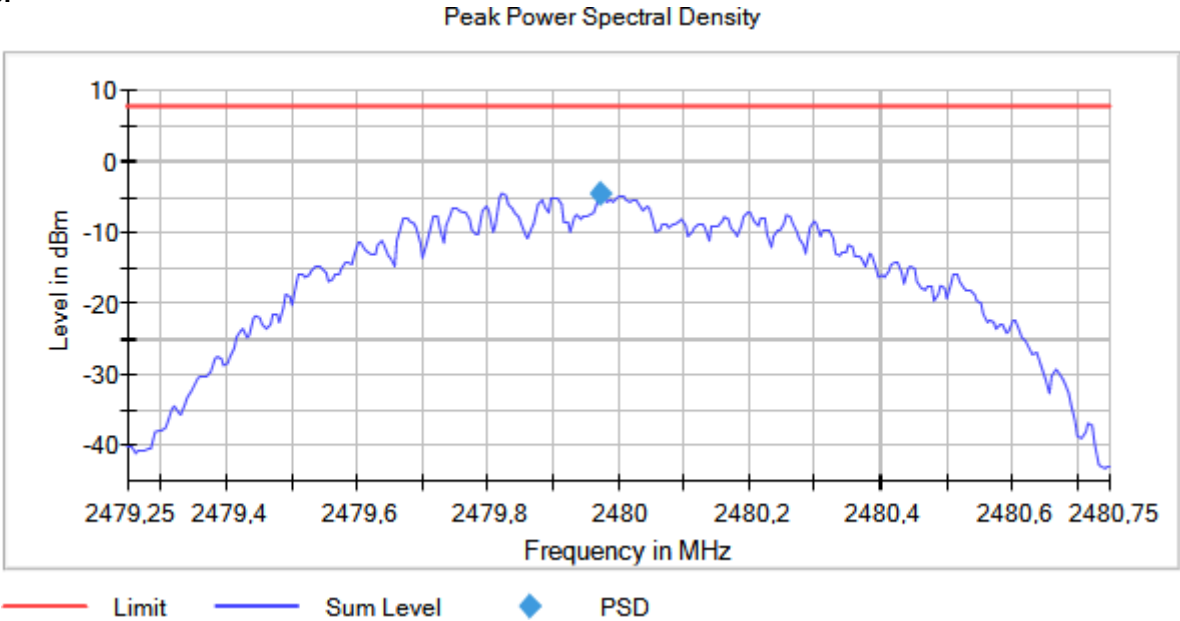
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2440
MIMO Mode = SISO Active Port = 1

Images:



Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2480
MIMO Mode = SISO Active Port = 1

Images:



Modulation: BLE 5.0 (GFSK 2 Mbps)

MIMO Mode: SISO

Results

Equipment	BW (MHz)	Freq (MHz)	Port	PSD (dBm)
Digital Transmission System (DTS)	2	2402	1	-5.38
		2440		-4.69
		2480		-4.78

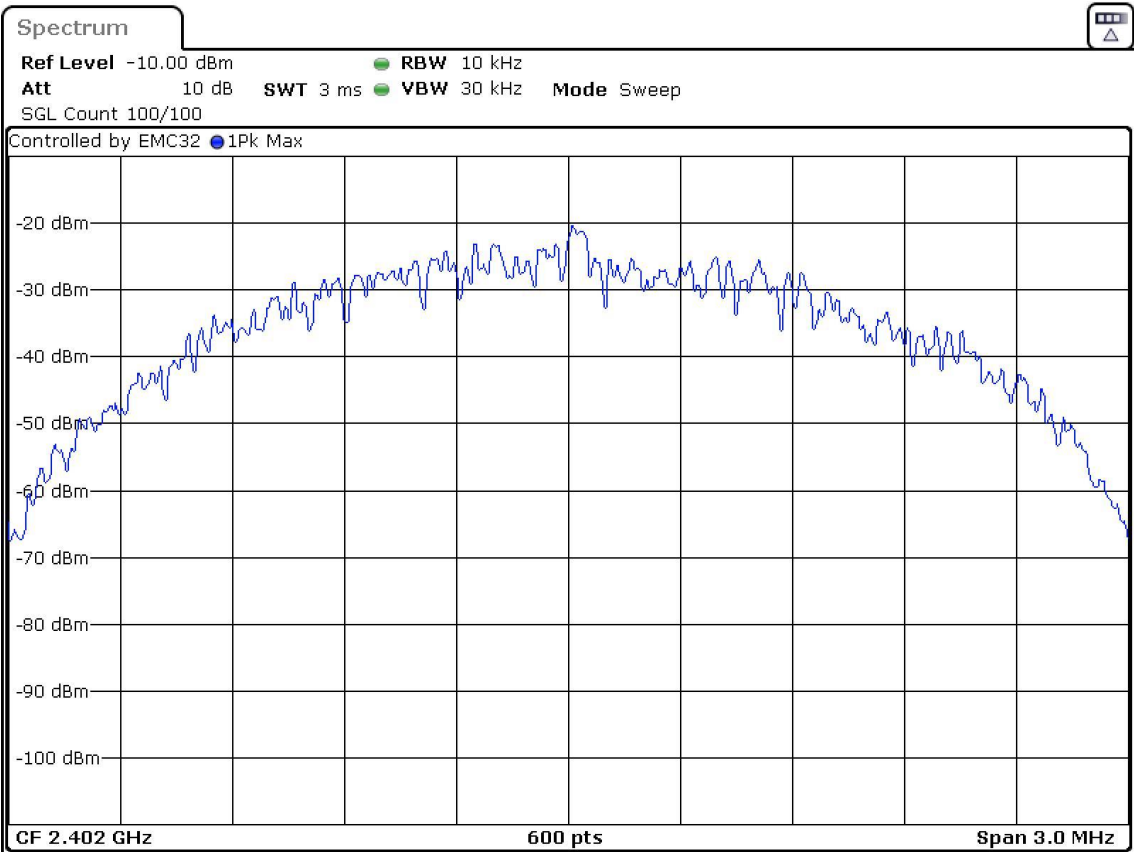
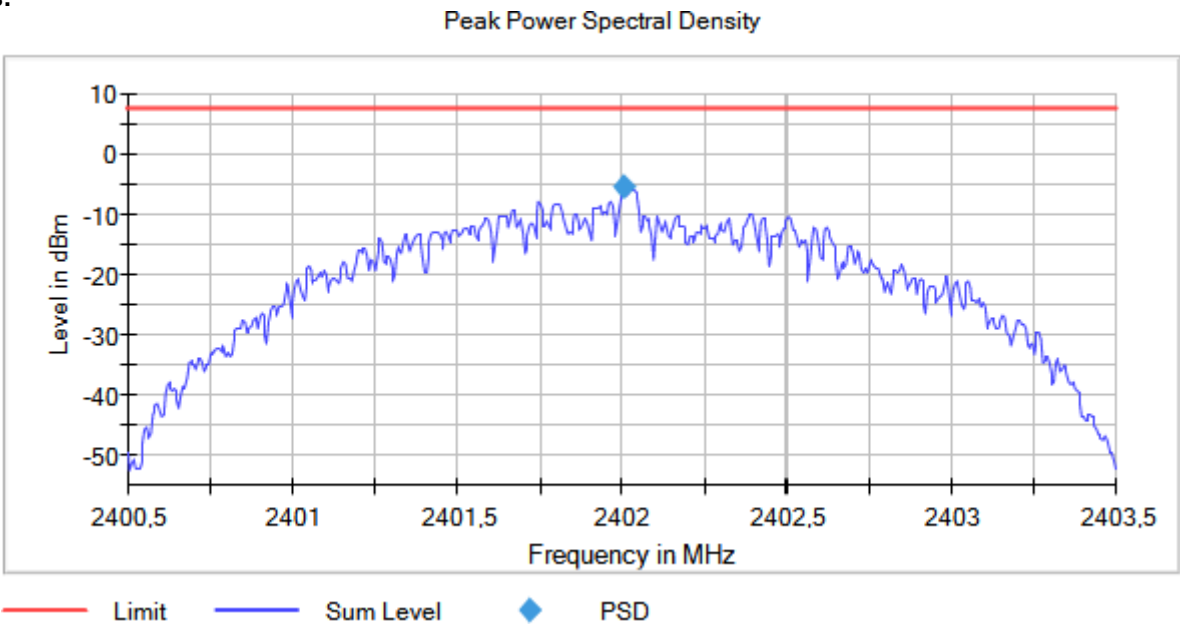
Verdict

Pass

Attachments

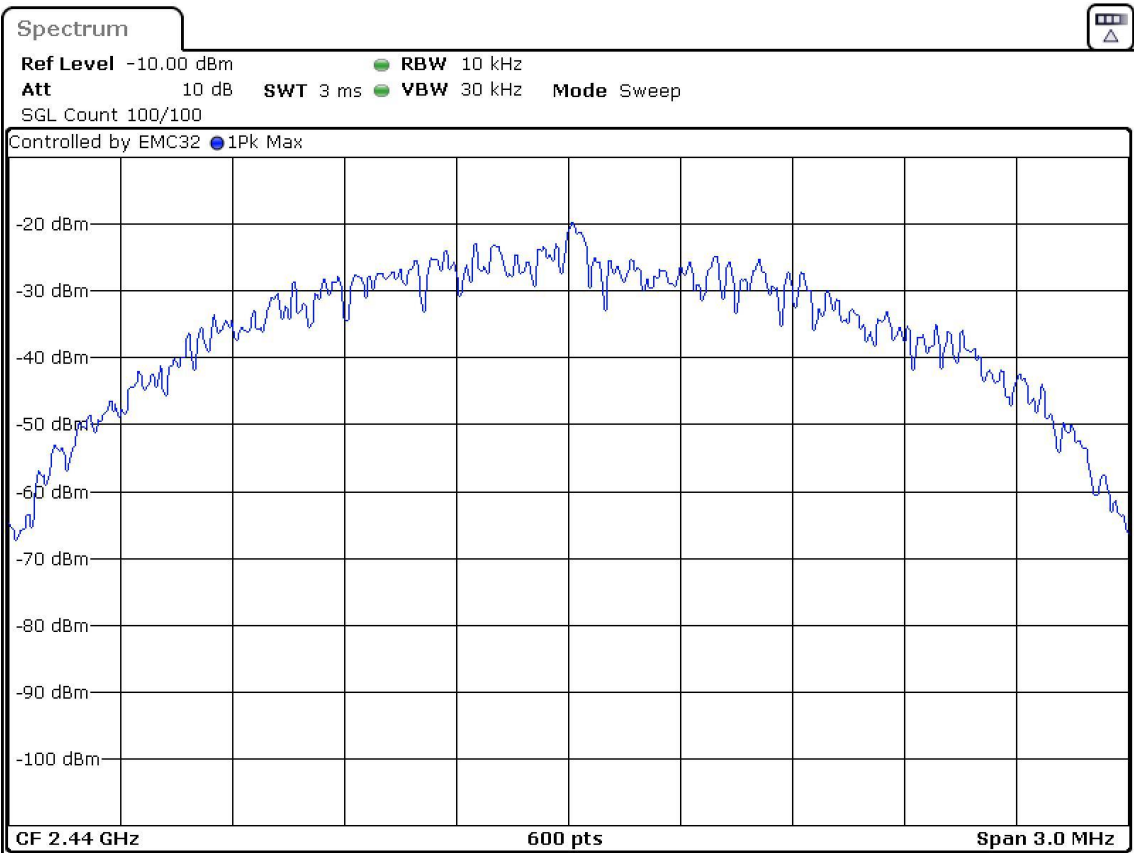
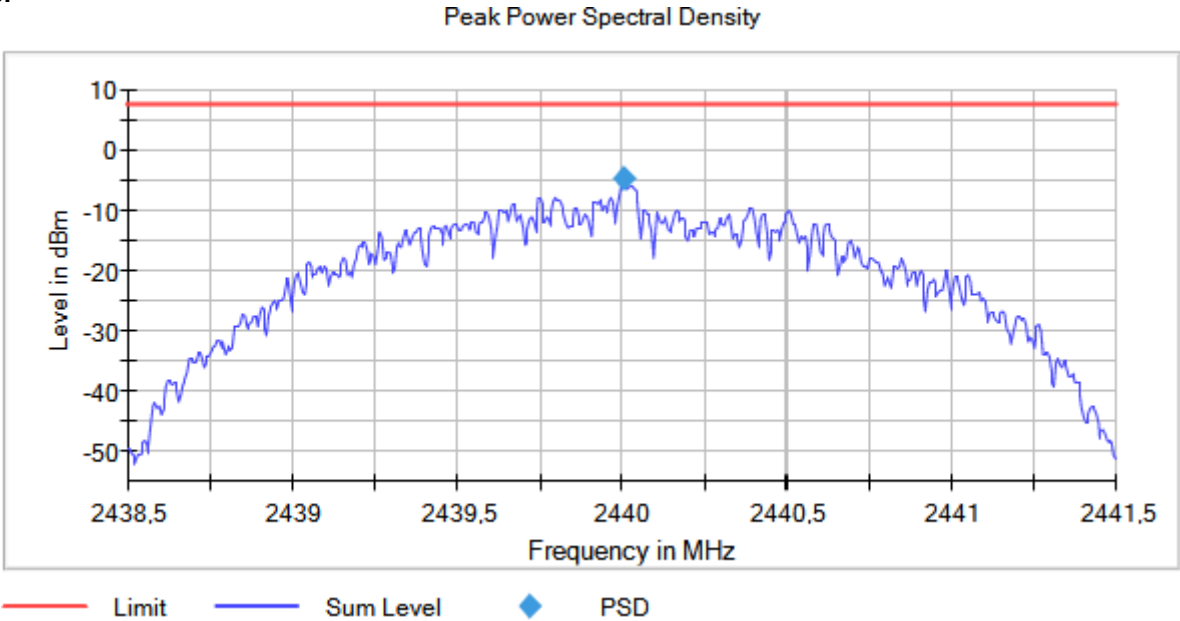
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 2
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2402
MIMO Mode = SISO Active Port = 1

Images:



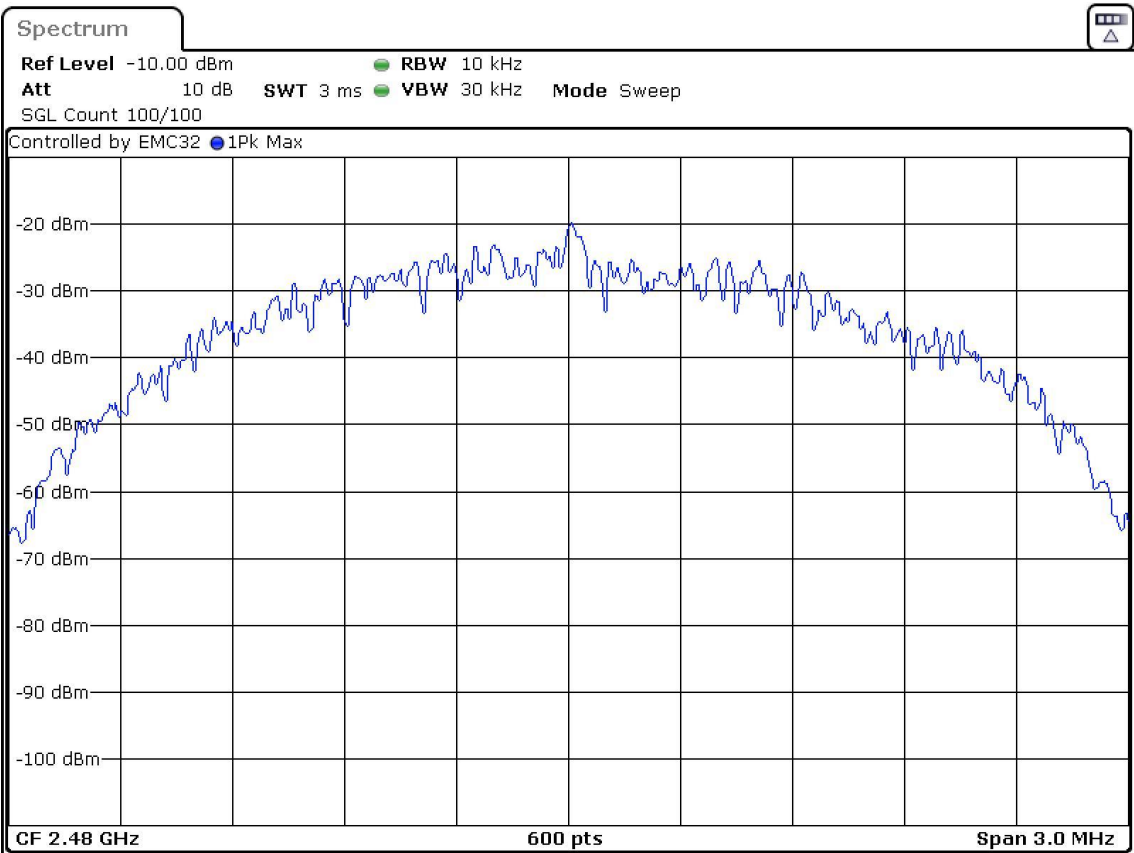
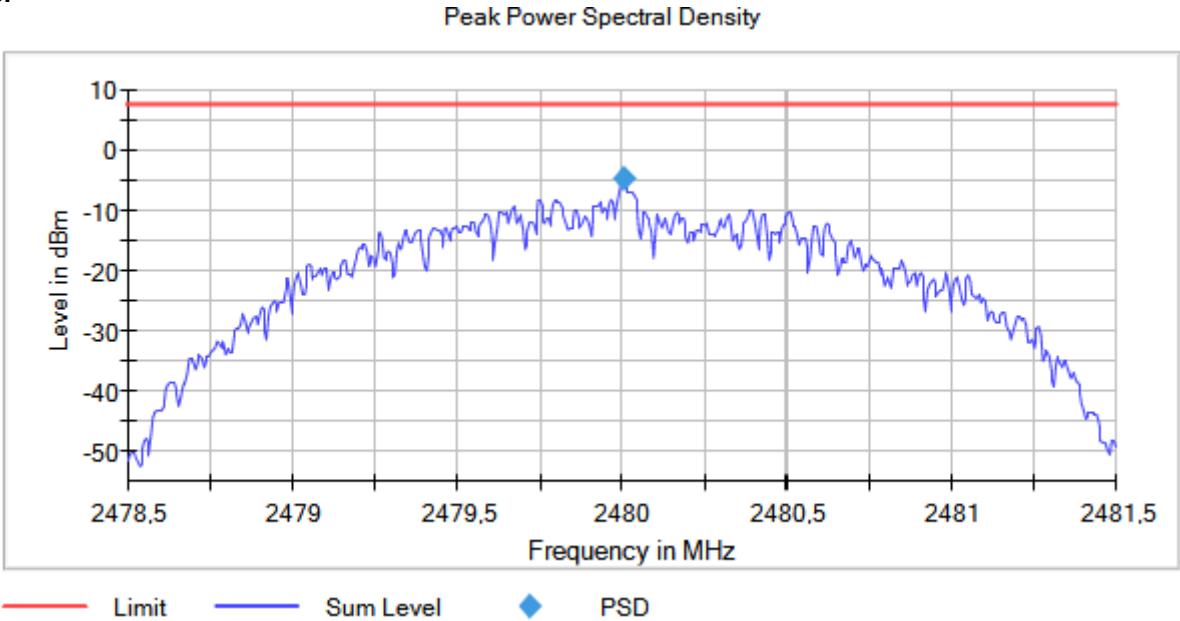
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 2
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2440
MIMO Mode = SISO Active Port = 1

Images:



Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 2
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2480
MIMO Mode = SISO Active Port = 1

Images:



RSS-247 5.4 (d) / FCC 15.247 (b) (3) [Pkcp] Maximum Peak Conducted output power

Limits

For systems using digital modulation in the 2400-2483.5 MHz band: 1 watt (30 dBm).
The e.i.r.p. shall not exceed 4 W (36 dBm) (Canada).
The maximum peak conducted output power level in the fundamental emission was measured using the method according to point 11.9.1.1 "RBW ≥ DTS bandwidth" of ANSI C.63.10-2013.

Modulation: BLE 5.0 (GFSK 1 Mbps)
MIMO Mode: SISO

Results

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power.
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

Maximum Declared Antenna Gain: -1 dBi

Equipment	BW (MHz)	Freq (MHz)	Peak Power (dBm)	EIRP Power (dBm)
Digital Transmission System (DTS)	1	2402	5.366	4.366
Digital Transmission System (DTS)	1	2440	5.394	4.394
Digital Transmission System (DTS)	1	2480	5.180	4.180

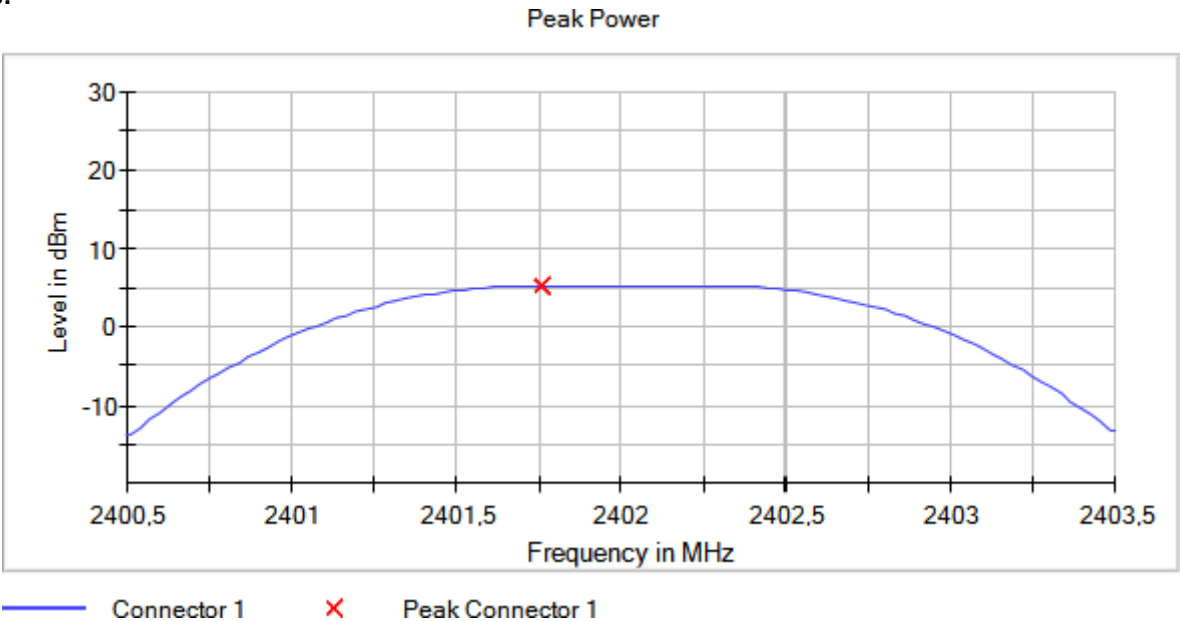
Verdict

Pass

Attachments

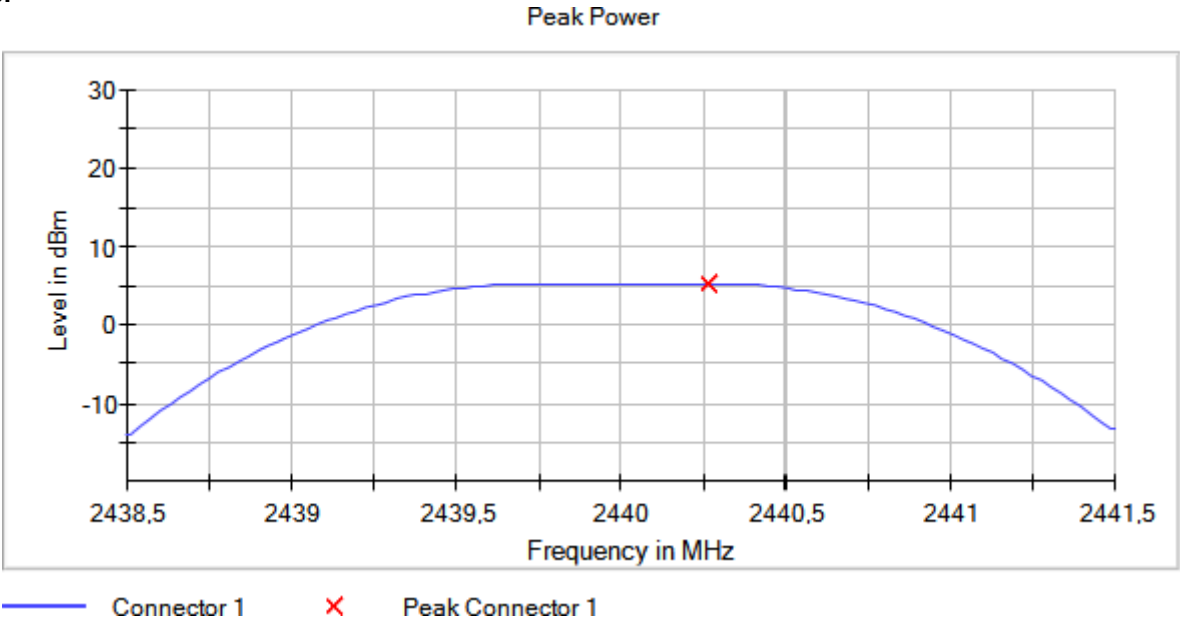
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2402
MIMO Mode = SISO Active Port = 1

Images:



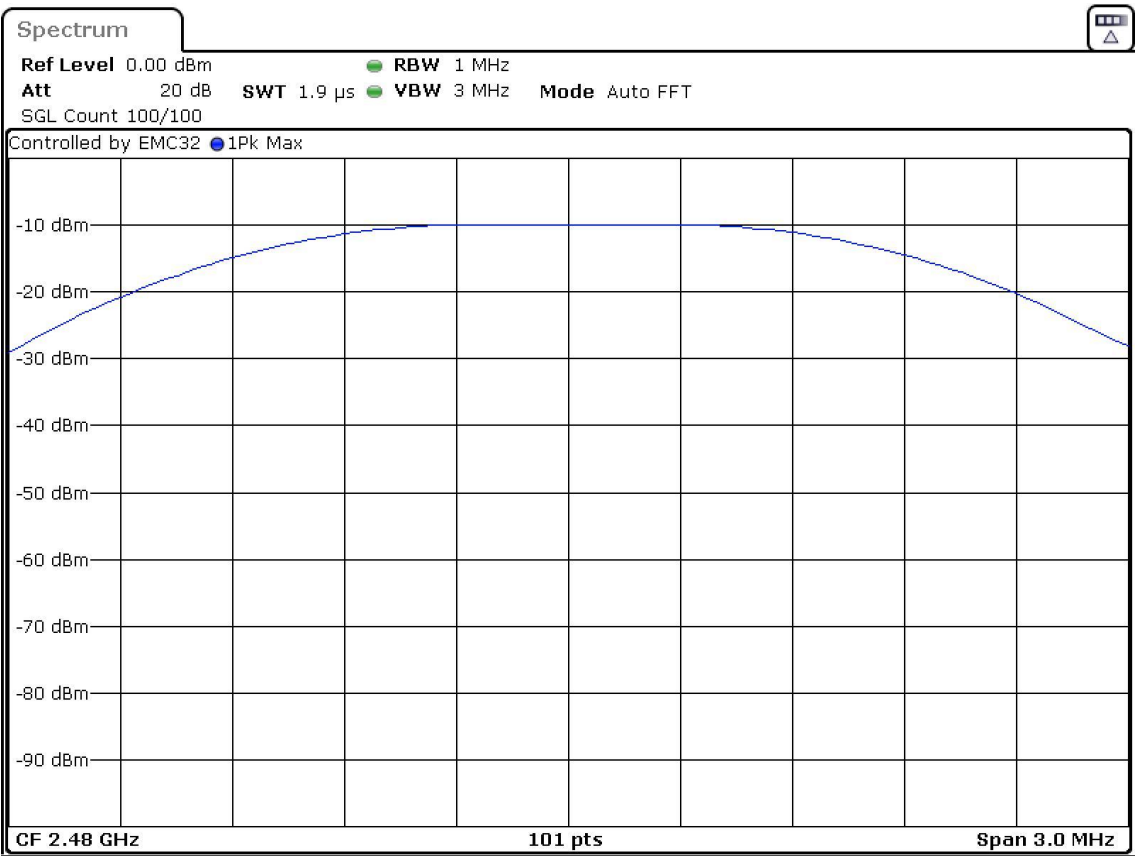
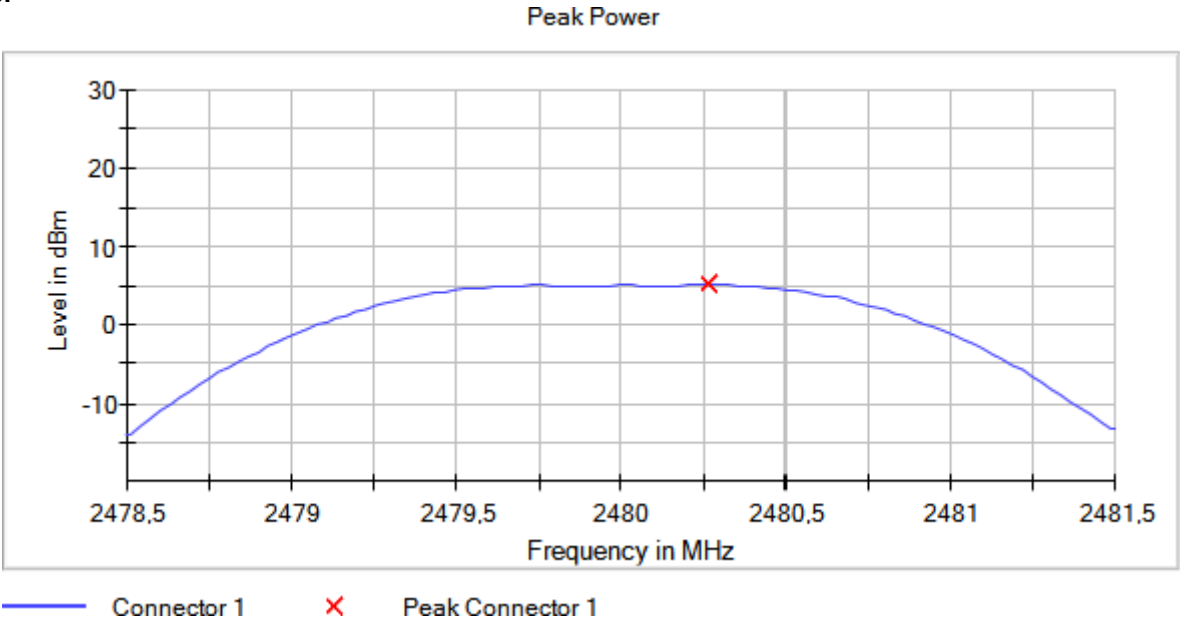
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2440
MIMO Mode = SISO Active Port = 1

Images:



Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2480
MIMO Mode = SISO Active Port = 1

Images:



Modulation: BLE 5.0 (GFSK 2 Mbps)

MIMO Mode: SISO

Results

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power.
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

Maximum Declared Antenna Gain: -1 dBi

Equipment	BW (MHz)	Freq (MHz)	Peak Power (dBm)	EIRP Power (dBm)
Digital Transmission System (DTS)	2	2402	5.342	4.342
Digital Transmission System (DTS)	2	2440	5.398	4.398
Digital Transmission System (DTS)	2	2480	5.202	4.202

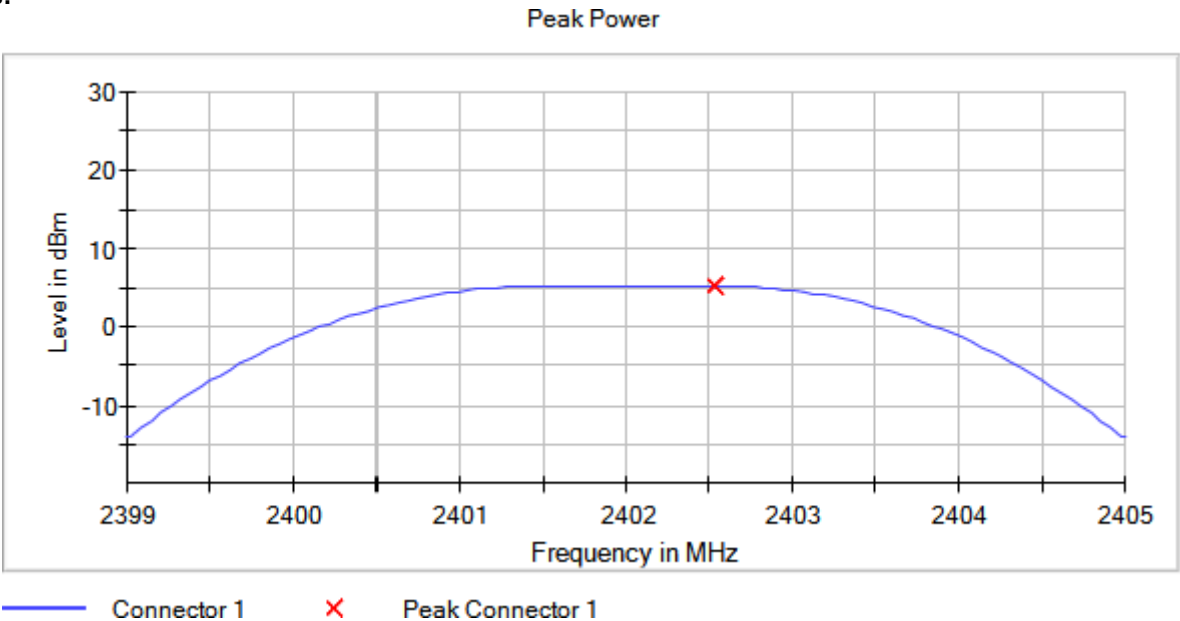
Verdict

Pass

Attachments

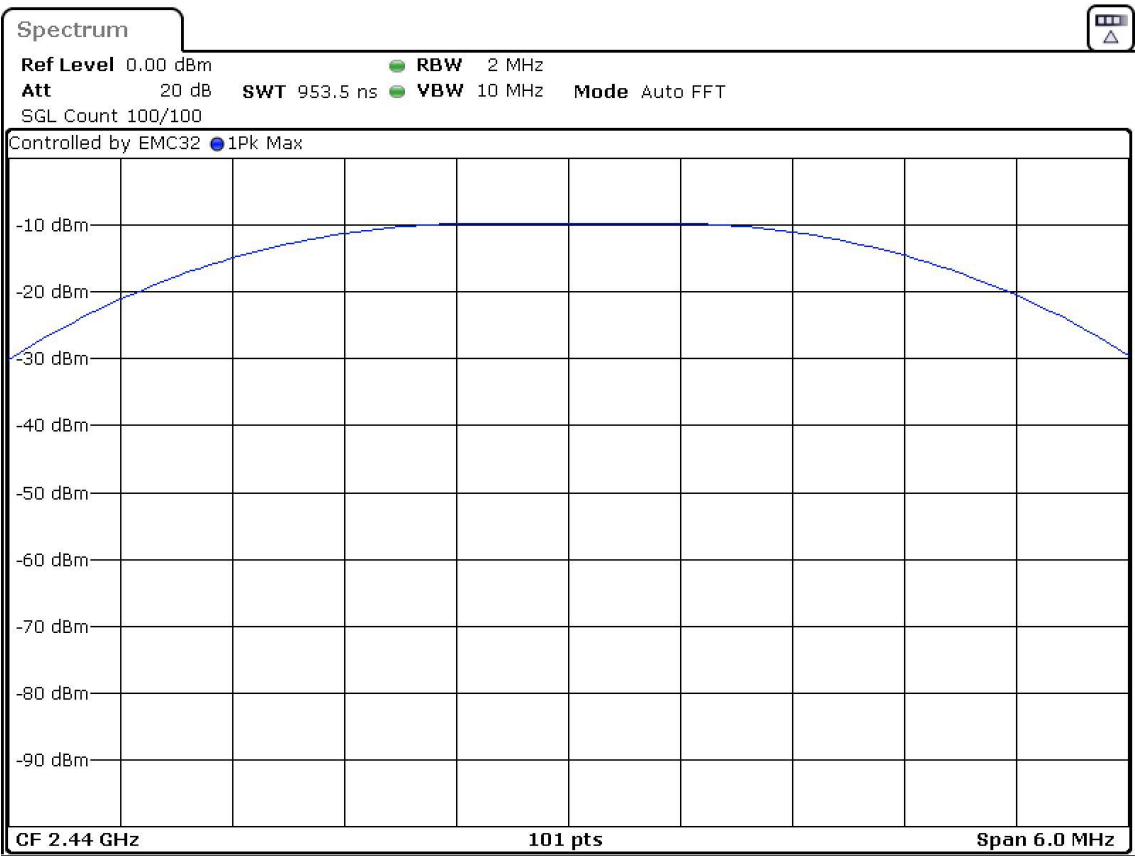
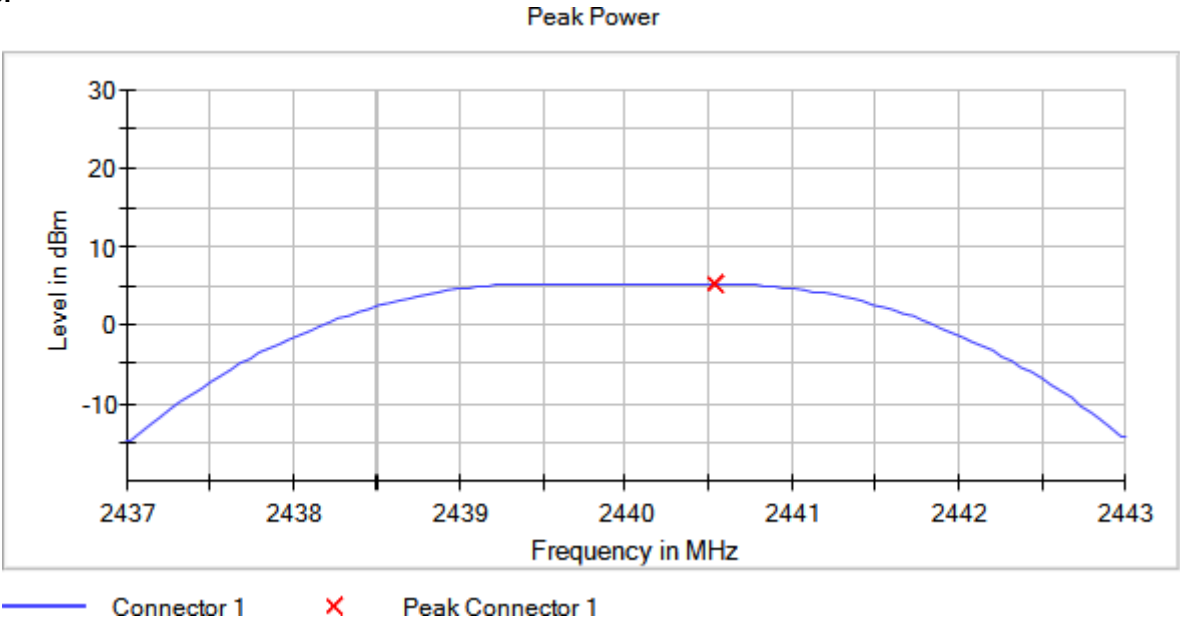
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 2
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2402
MIMO Mode = SISO Active Port = 1

Images:



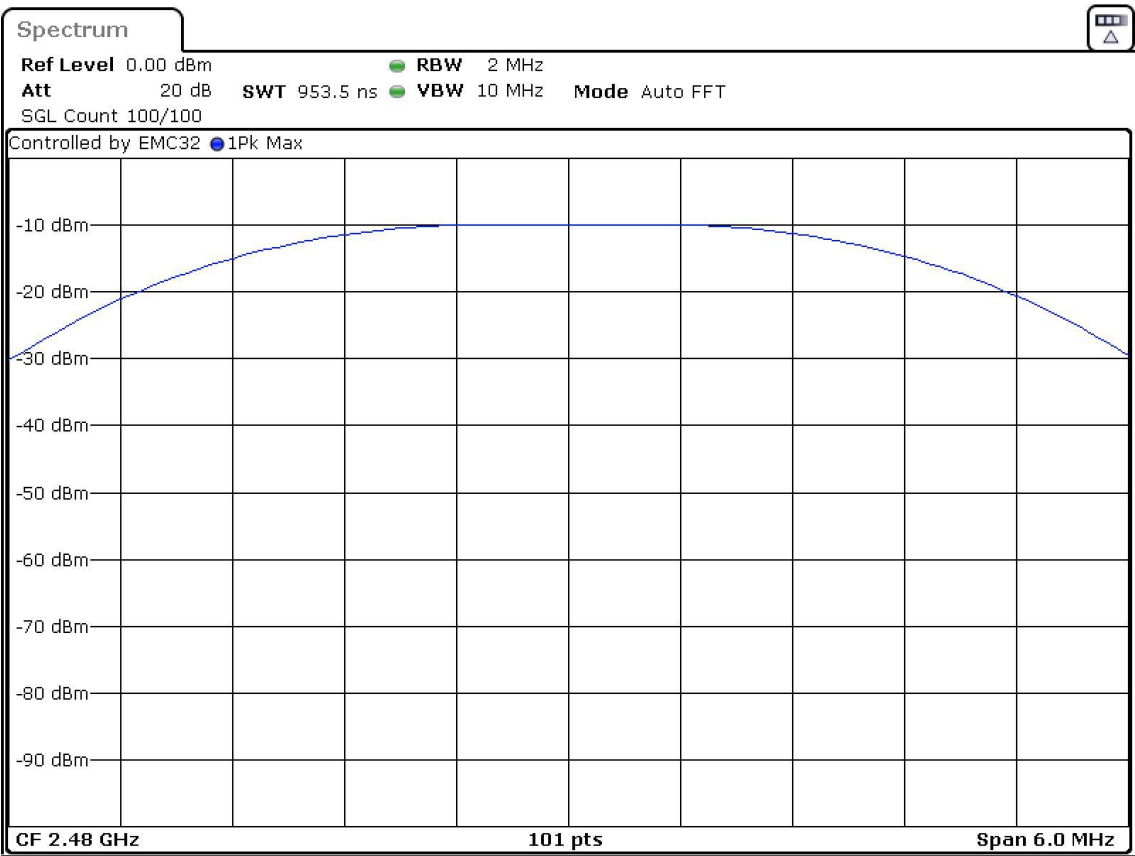
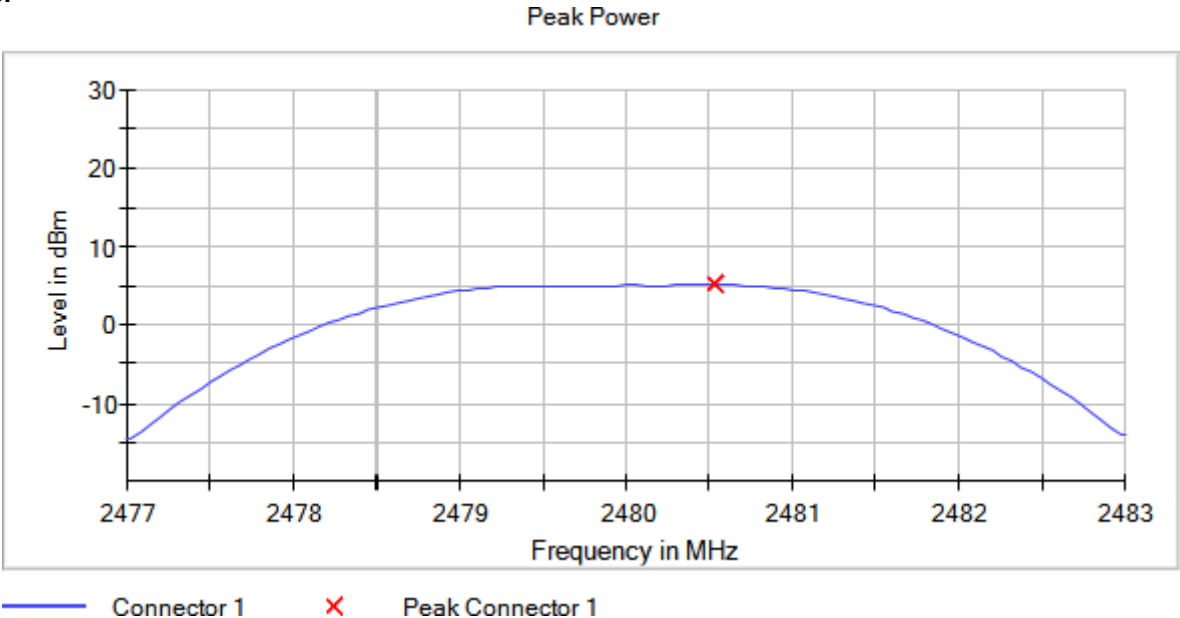
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 2
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2440
MIMO Mode = SISO Active Port = 1

Images:



Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 2
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2480
MIMO Mode = SISO Active Port = 1

Images:



RSS-247 5.5 / FCC 15.247 (d) [Bndedge] Band-edge emissions compliance (Transmitter)

Limits

In any 100 kHz bandwidths outside the frequency band in which the 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, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Modulation: BLE 5.0 (GFSK 1 Mbps)

MIMO Mode: SISO

Results

Radiated measurements were used to show compliance with the limits in the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

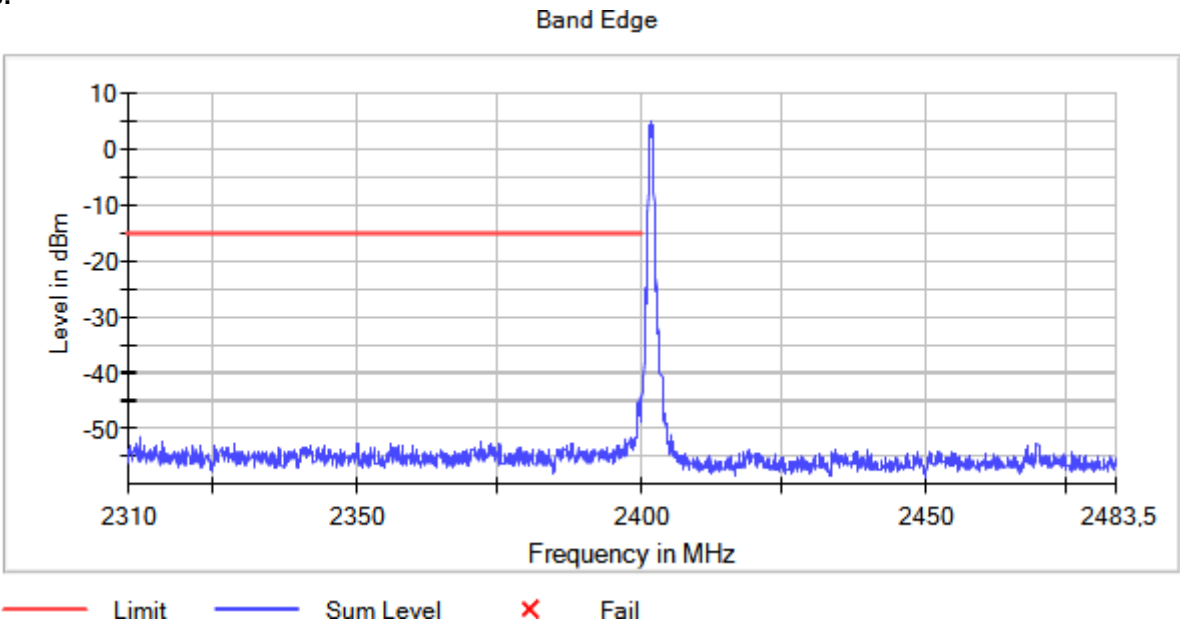
Verdict

Pass

Attachments

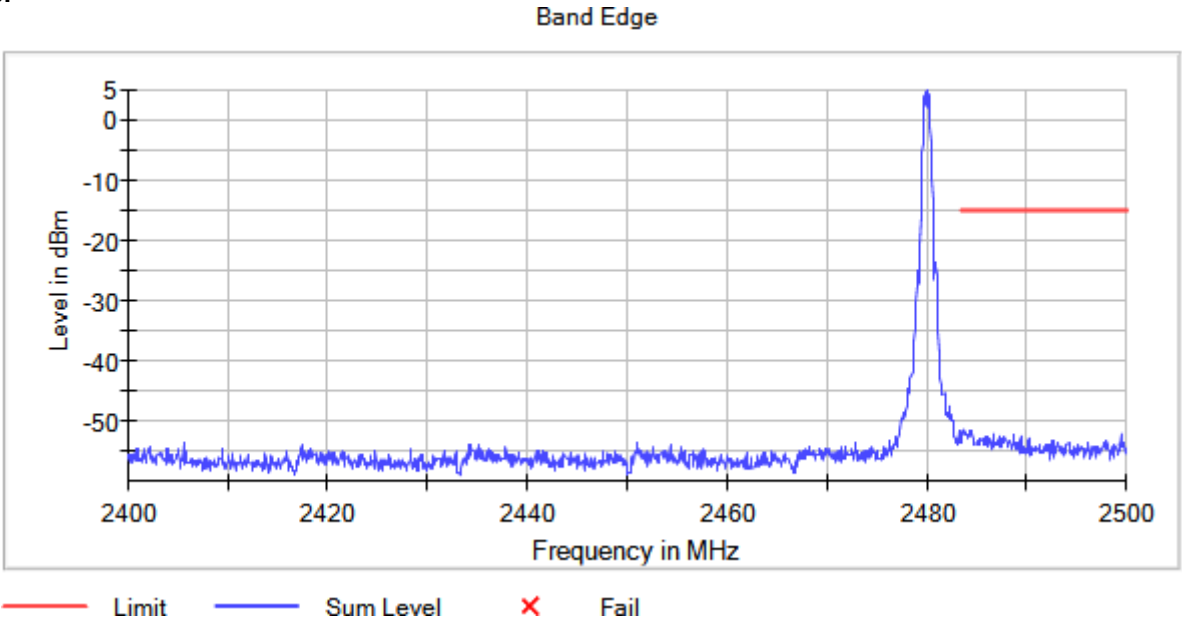
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2402
MIMO Mode = SISO Active Port = 1

Images:



Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2480
MIMO Mode = SISO Active Port = 1

Images:



Tables:

Spectrum Analyzer Parameters 1

Setting	Instrument Value	Target Value
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	10.000 dBm	10.000 dBm
Attenuation	30.000 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

Modulation: BLE 5.0 (GFSK 2 Mbps)

MIMO Mode: SISO

Results

Radiated measurements were used to show compliance with the limits in the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

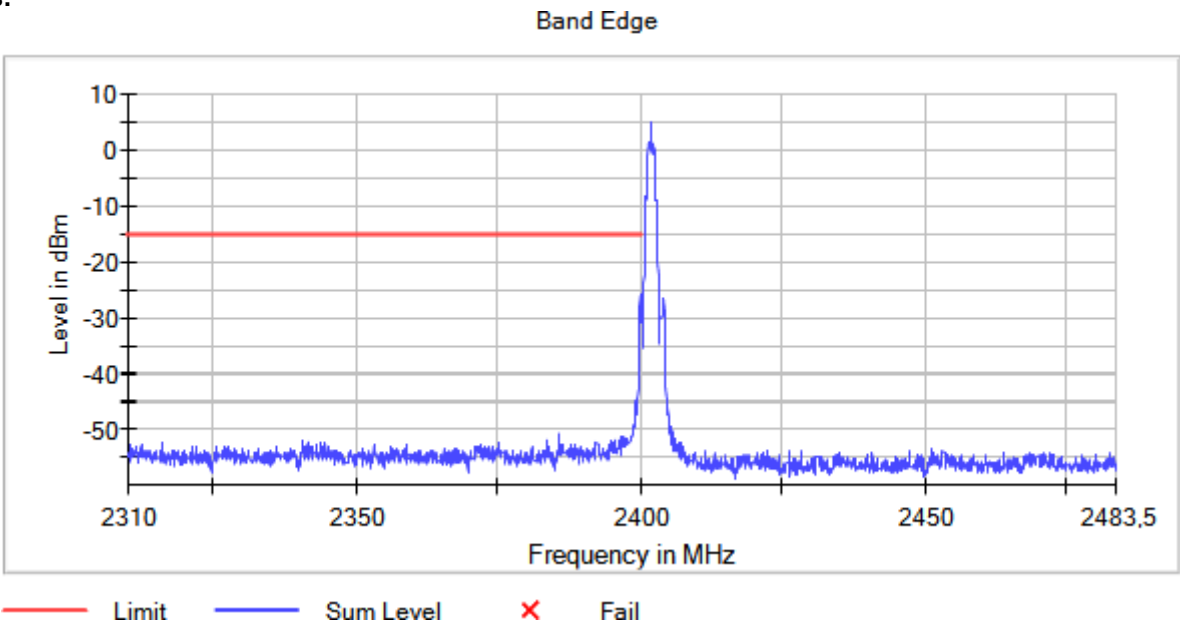
Verdict

Pass

Attachments

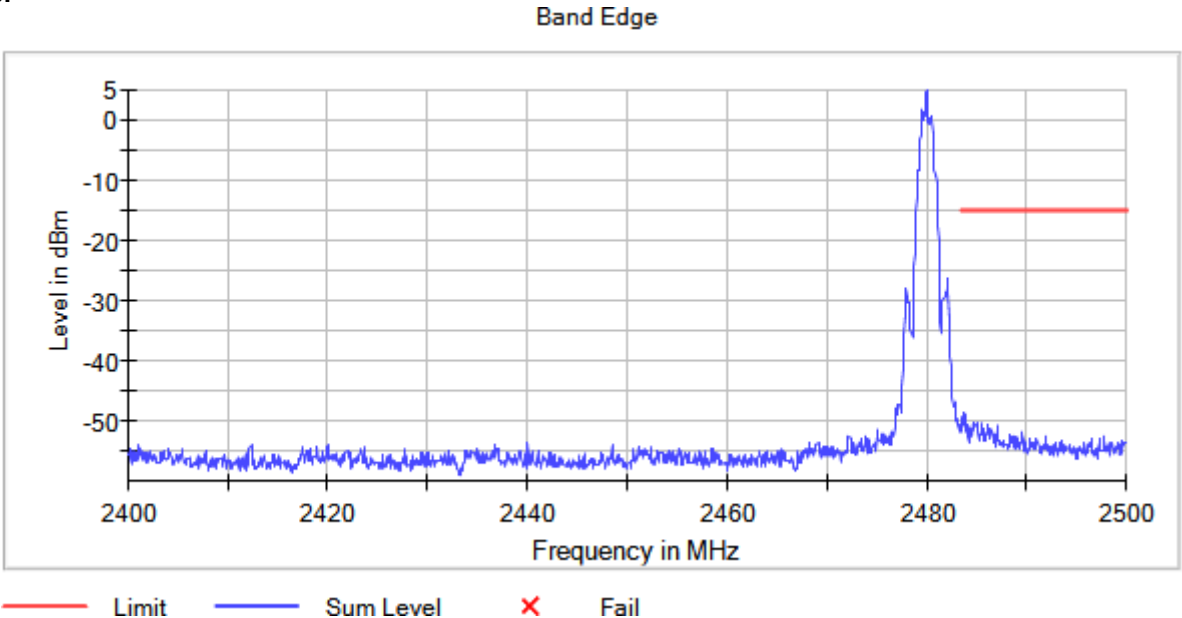
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 2
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2402
MIMO Mode = SISO Active Port = 1

Images:



Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 2
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2480
MIMO Mode = SISO Active Port = 1

Images:



Tables:

Spectrum Analyzer Parameters 1

Setting	Instrument Value	Target Value
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	10.000 dBm	10.000 dBm
Attenuation	30.000 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	7 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

RSS-247 5.5 / FCC 15.247 (d) [RSE] Emission limitations radiated (Transmitter)

Limits

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)/RSS-Gen):

Frequency Range (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RSS-247: Attenuation below the general field strength limits specified in RSS-Gen is not required.

Frequency range tested for Radiated emissions

Start frequency: no radiofrequency signal generated in the device found below 10th sub-armonic, no further investigation required.

Stop frequency: it has been performed the radiated spurious emissions until 10th armonic.

Modulation: BLE 5.0 (GFSK 1 Mbps)

MIMO Mode: SISO

Results

Freq Rng (GHz)	Equipment	Freq (MHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
[0.03, 1]	Digital Transmission System (DTS)	2402	44.520	22.26	V	PK
[0.03, 1]	Digital Transmission System (DTS)	2402	44.520	15.89	V	QP
[0.03, 1]	Digital Transmission System (DTS)	2440	30.152	30.12	H	PK
[0.03, 1]	Digital Transmission System (DTS)	2440	30.152	25.10	H	QP
[0.03, 1]	Digital Transmission System (DTS)	2480	39.700	24.40	H	PK
[0.03, 1]	Digital Transmission System (DTS)	2480	39.700	18.37	H	QP
[1, 3]	Digital Transmission System (DTS)	2480	2392.831	55.59	V	PK

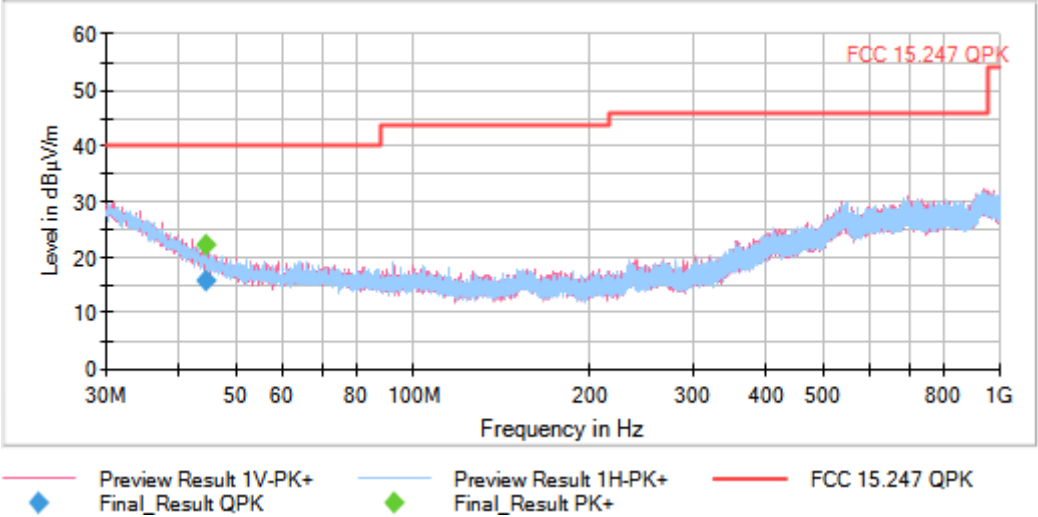
Verdict

Pass

Attachments

Frequency Range GHz = [0.03, 1] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2402
MIMO Mode = SISO Active Port = 1

Images:



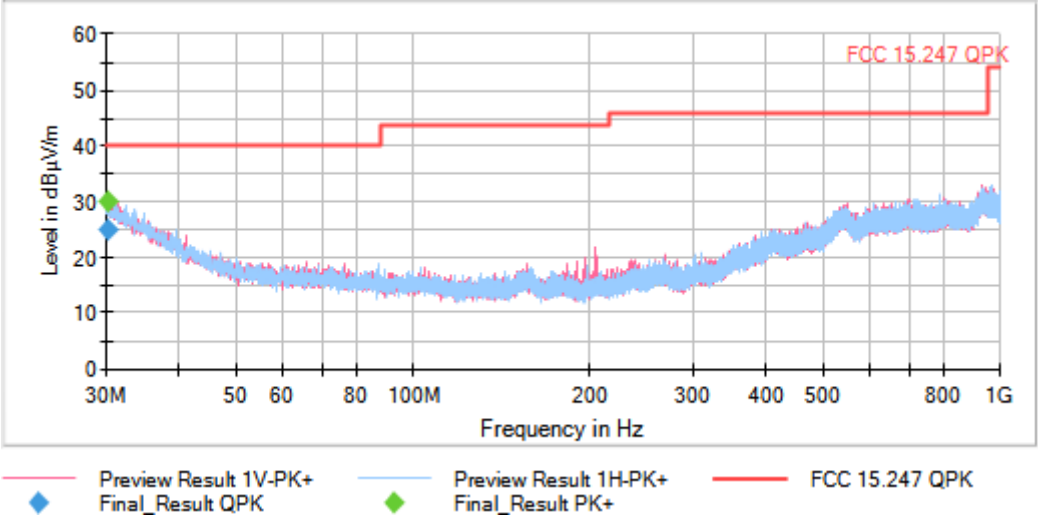
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	30 MHz - 1 GHz	30,312 kHz	PK+	100 kHz	1 s	0 dB

Frequency Range GHz = [0.03, 1] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2440
MIMO Mode = SISO Active Port = 1

Images:



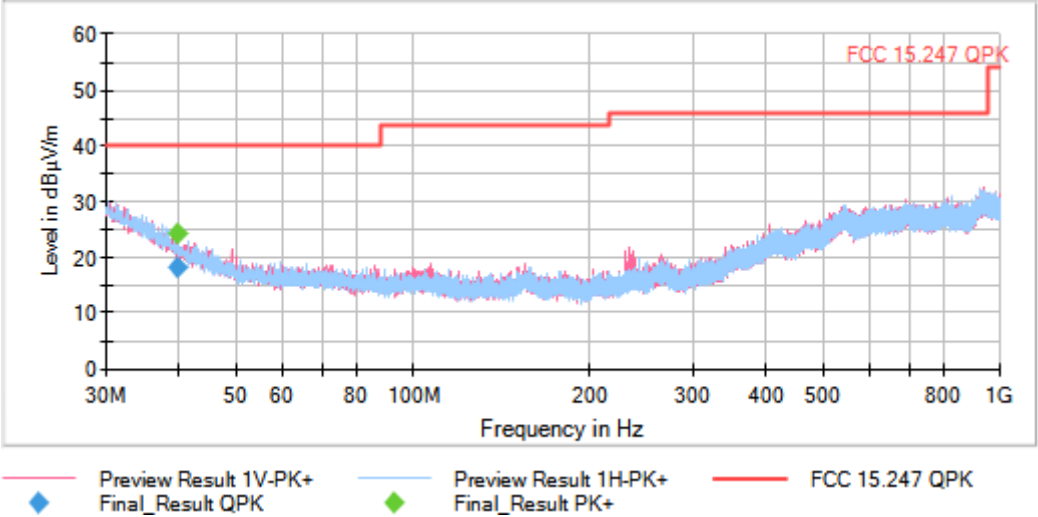
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	30 MHz - 1 GHz	30,312 kHz	PK+	100 kHz	1 s	0 dB

Frequency Range GHz = [0.03, 1] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2480
MIMO Mode = SISO Active Port = 1

Images:



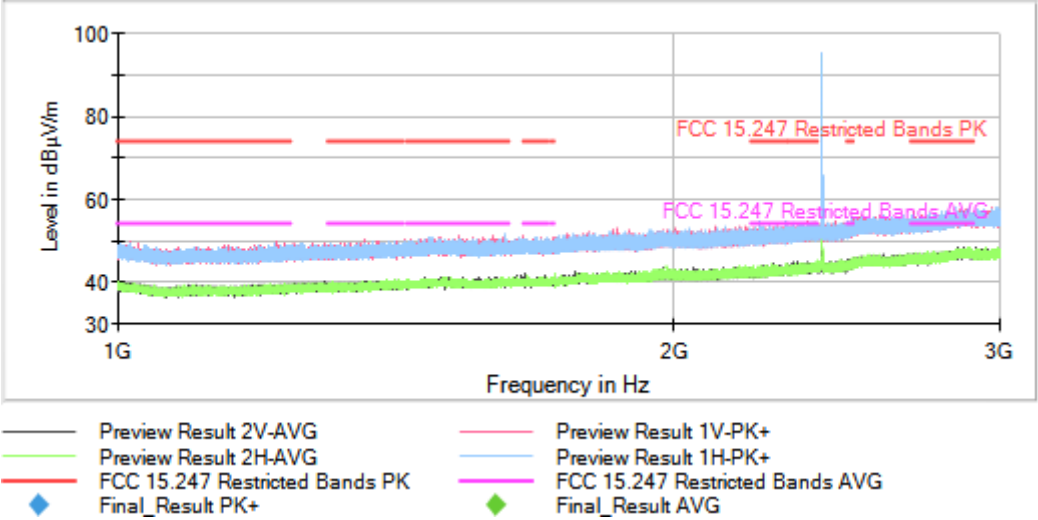
Tables:

Spectrum Analyzer Parameters

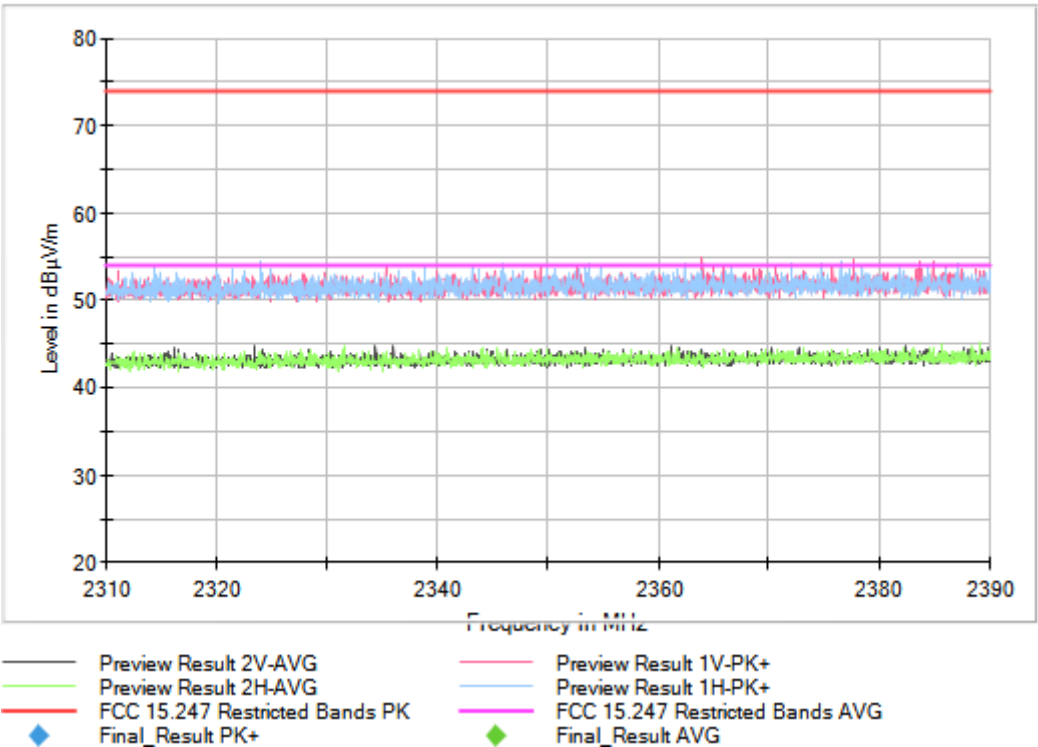
	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	30 MHz - 1 GHz	30,312 kHz	PK+	100 kHz	1 s	0 dB

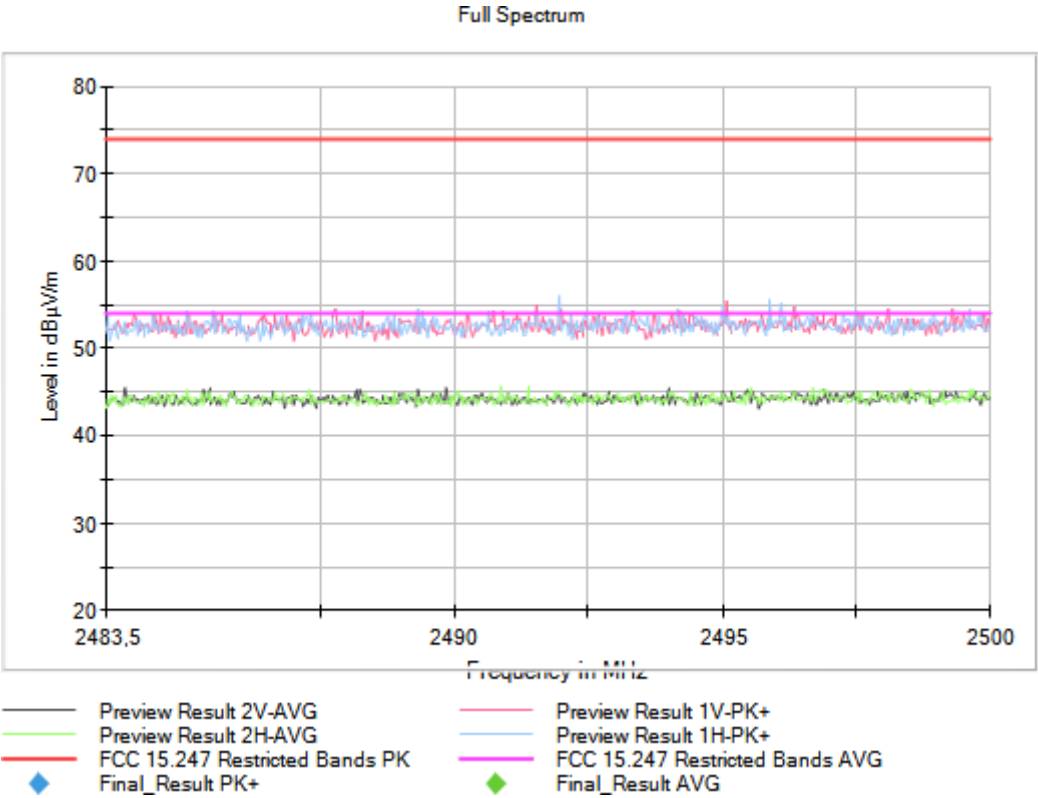
Frequency Range GHz = [1, 3] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2402
MIMO Mode = SISO Active Port = 1

Images:



Full Spectrum



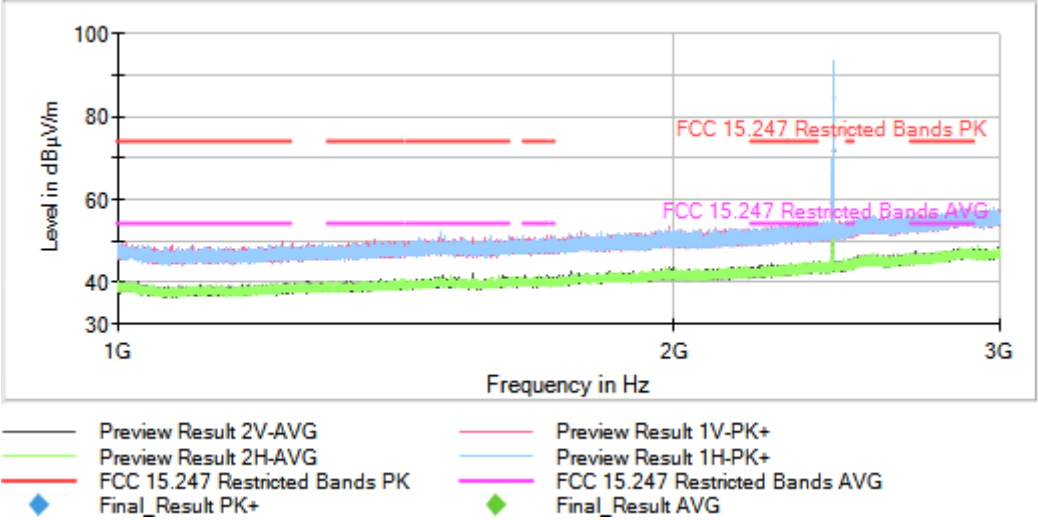


Tables:
Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	1 GHz - 3 GHz	30,769 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

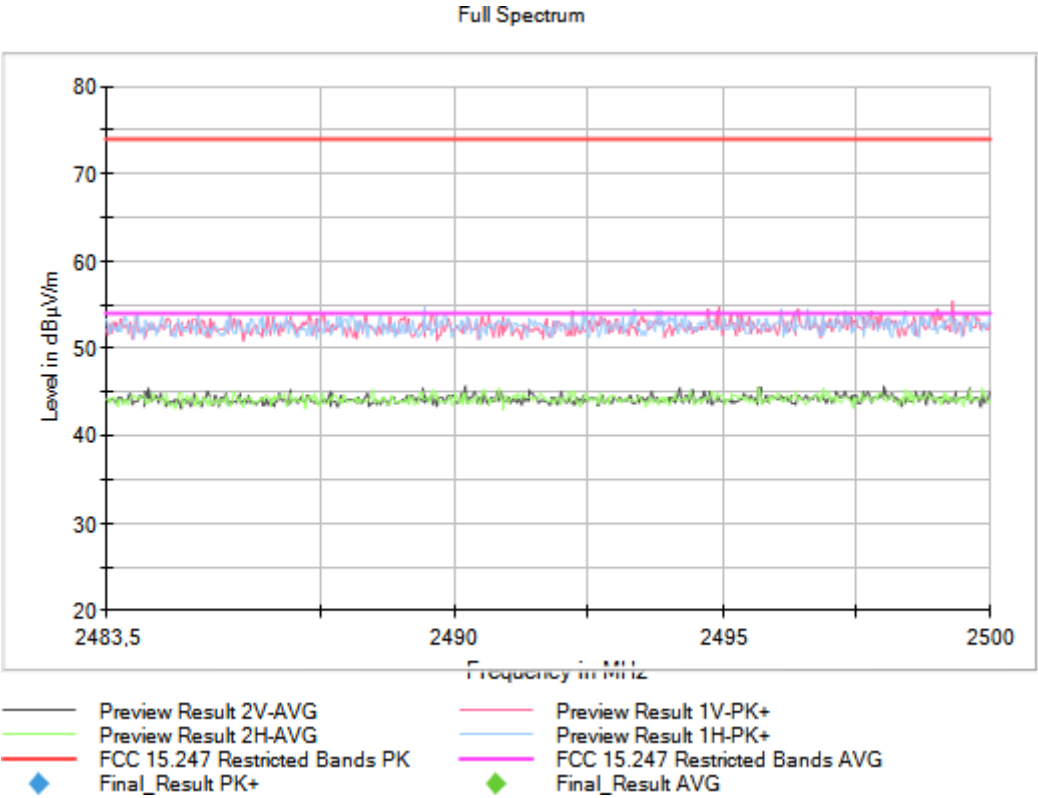
Frequency Range GHz = [1, 3] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2440
MIMO Mode = SISO Active Port = 1

Images:



Full Spectrum



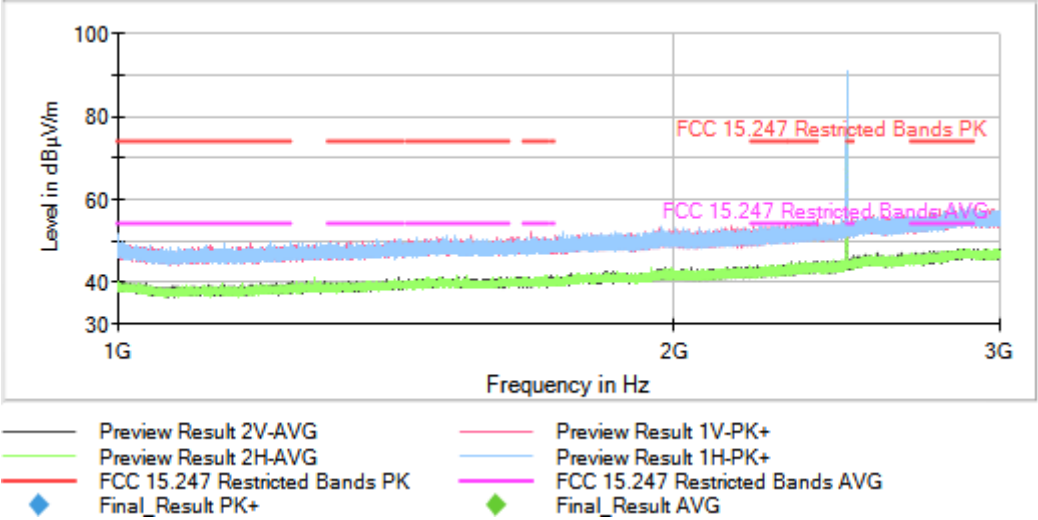


Tables:
Spectrum Analyzer Parameters

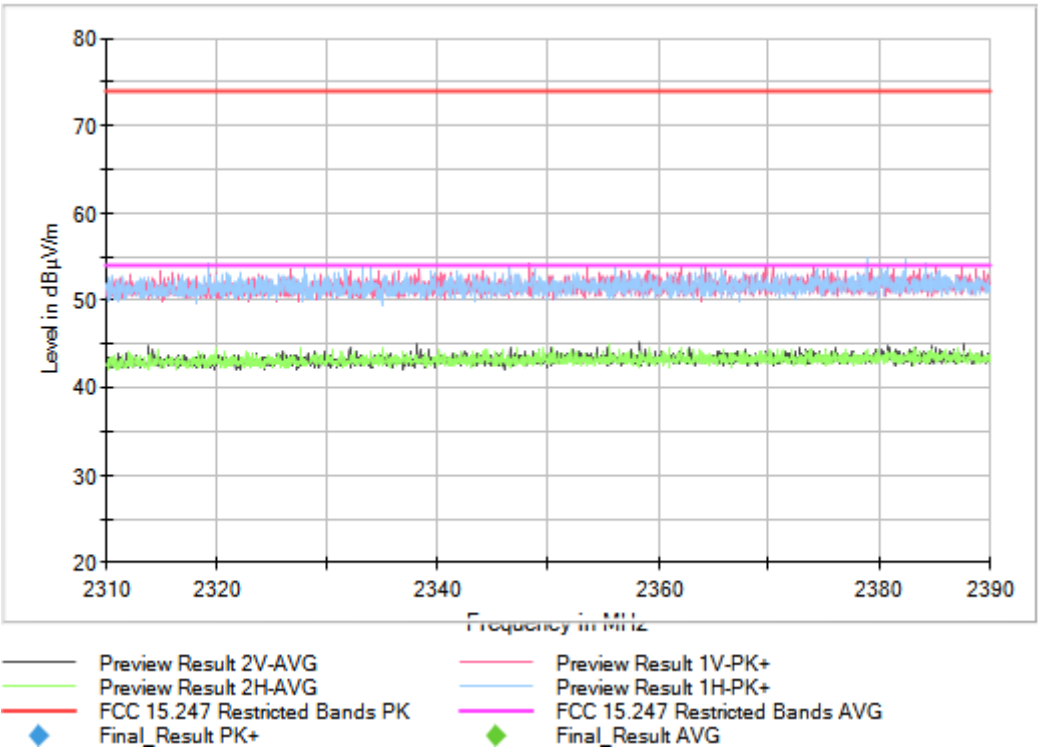
	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	1 GHz - 3 GHz	30,769 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

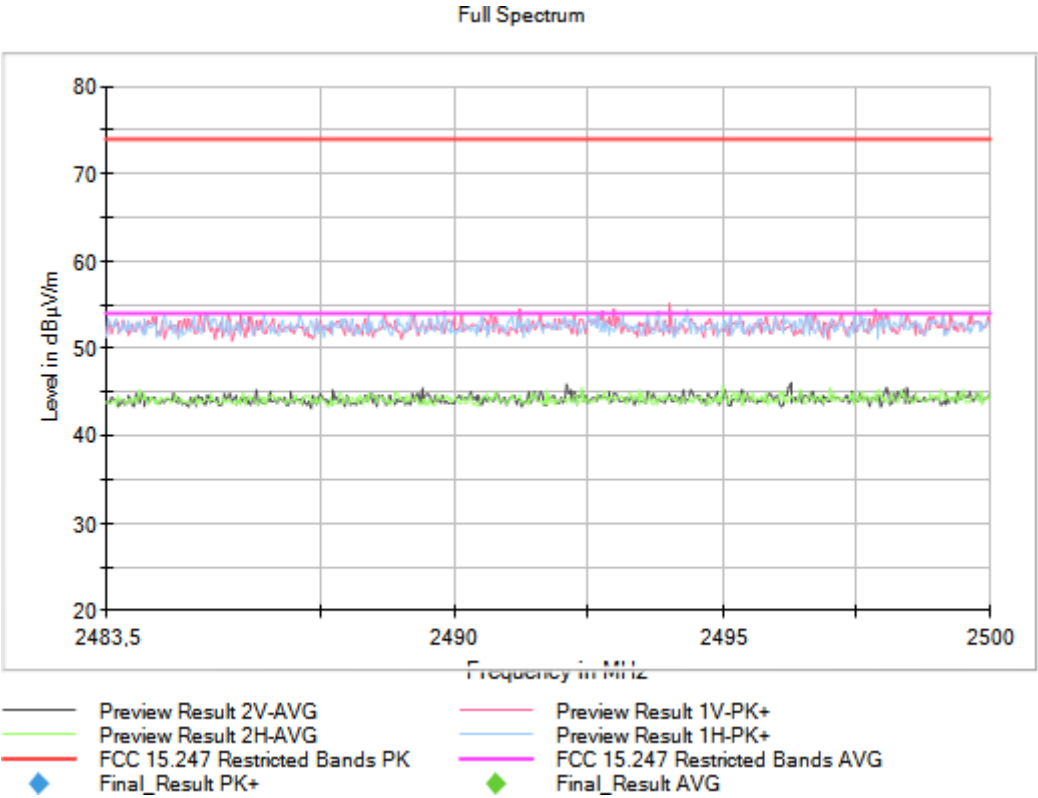
Frequency Range GHz = [1, 3] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2480
MIMO Mode = SISO Active Port = 1

Images:



Full Spectrum



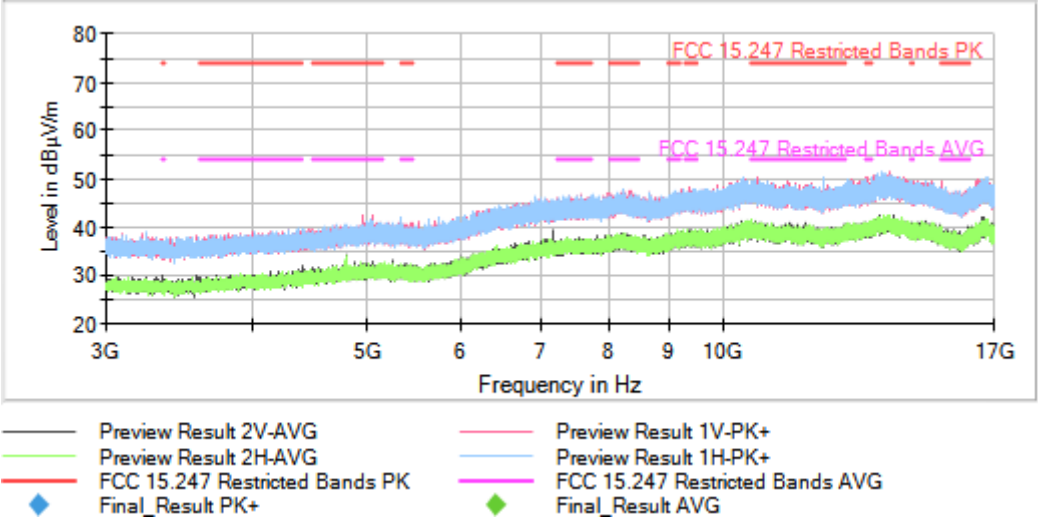


Tables:
Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	1 GHz - 3 GHz	30,769 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Frequency Range GHz = [3, 17] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2402
MIMO Mode = SISO Active Port = 1

Images:



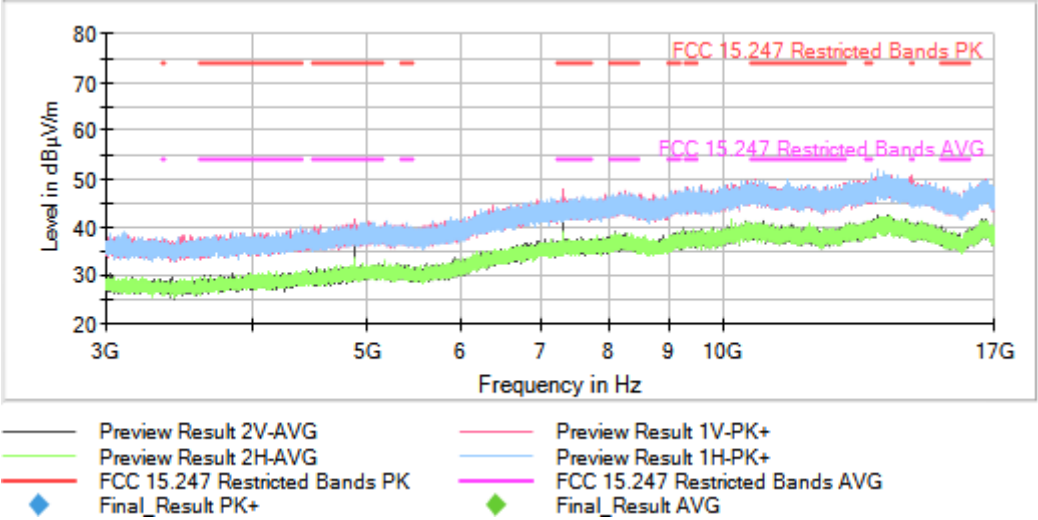
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	3 GHz - 17 GHz	140 kHz	PK+ ; AVG	1 MHz	1 s	30 dB

Frequency Range GHz = [3, 17] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2440
MIMO Mode = SISO Active Port = 1

Images:



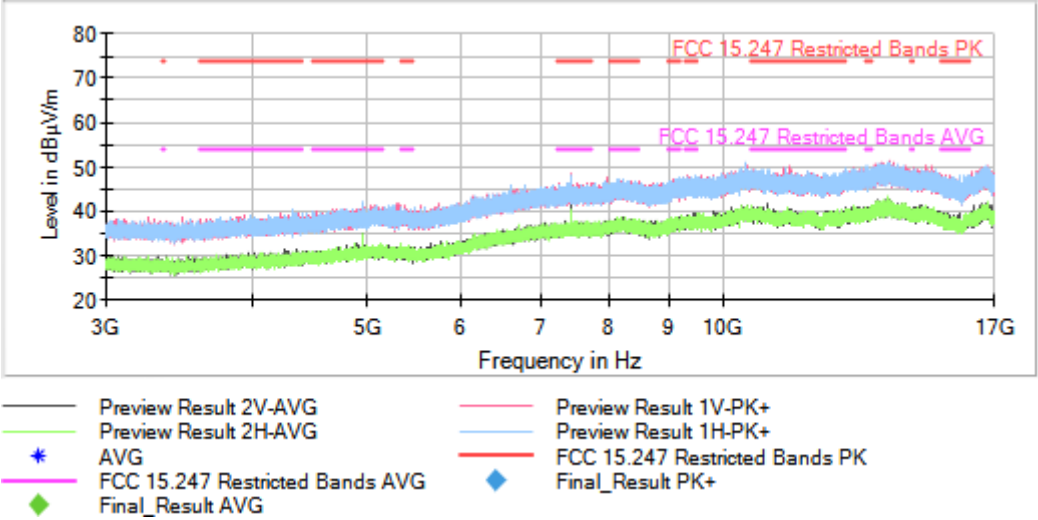
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	3 GHz - 17 GHz	140 kHz	PK+ ; AVG	1 MHz	1 s	30 dB

Frequency Range GHz = [3, 17] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2480
MIMO Mode = SISO Active Port = 1

Images:



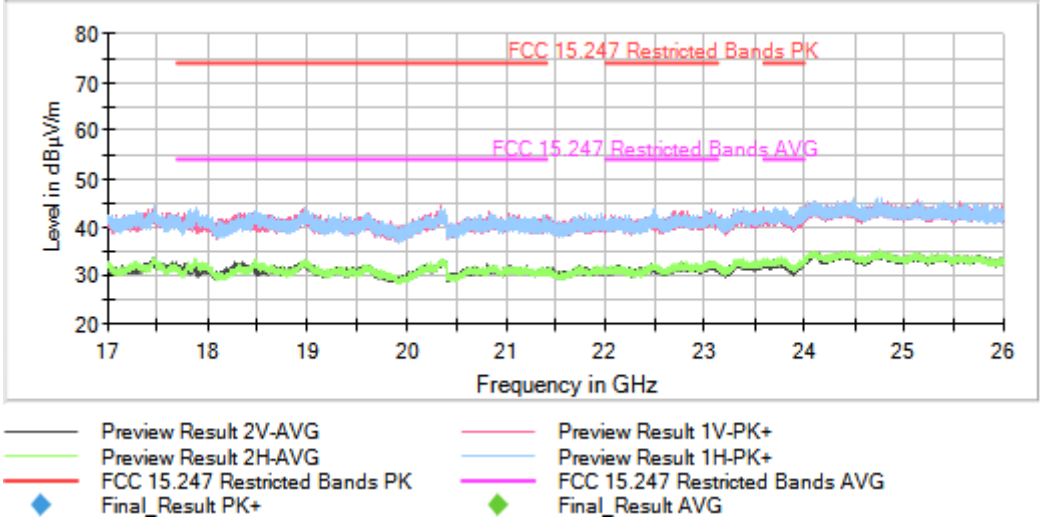
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	3 GHz - 17 GHz	140 kHz	PK+ ; AVG	1 MHz	1 s	30 dB

Frequency Range GHz = [17, 26] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2402
MIMO Mode = SISO Active Port = 1

Images:



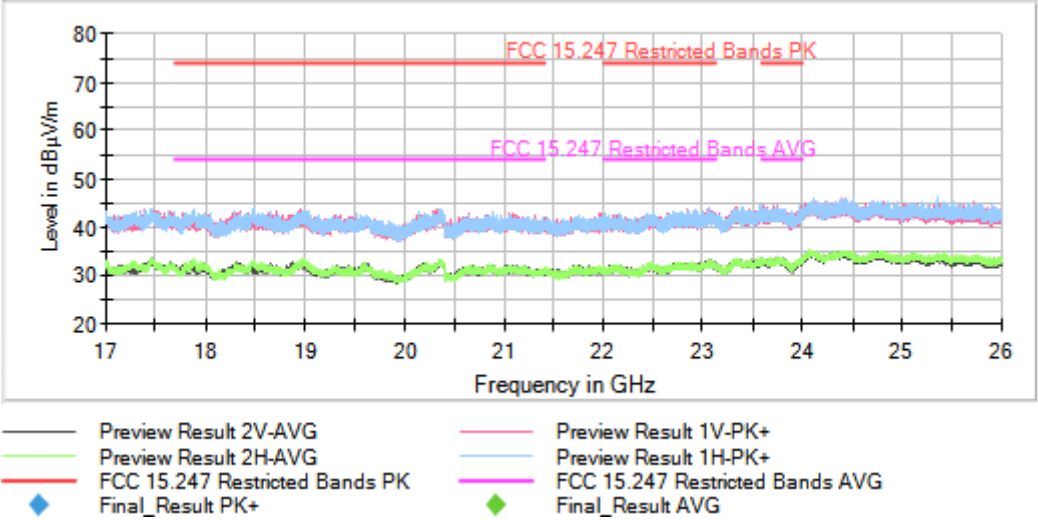
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [FSV 40]					
	17 GHz - 26 GHz	300 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Frequency Range GHz = [17, 26] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2440
MIMO Mode = SISO Active Port = 1

Images:



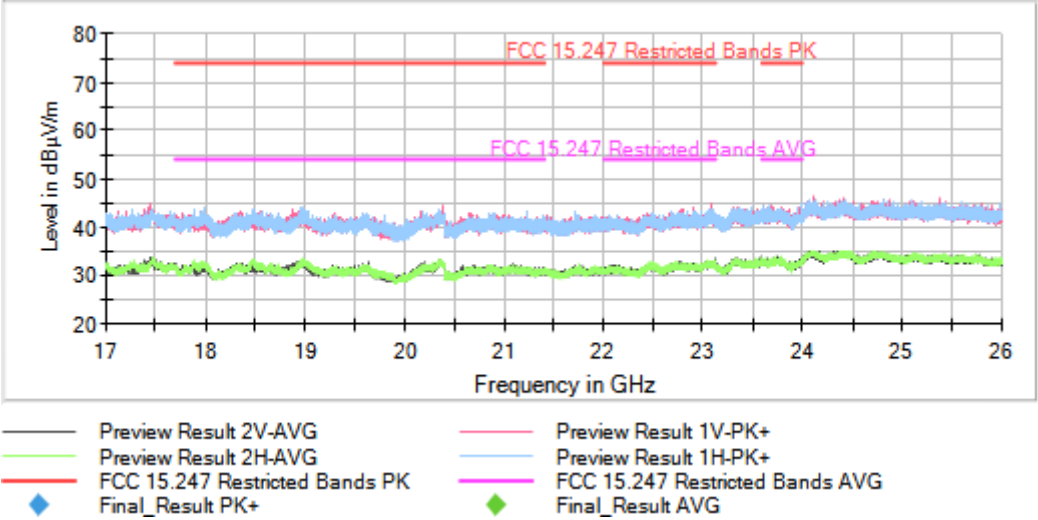
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [FSV 40]					
	17 GHz - 26 GHz	300 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Frequency Range GHz = [17, 26] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 1 Mbps) Frequency MHz = 2480
MIMO Mode = SISO Active Port = 1

Images:



Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [FSV 40]					
	17 GHz - 26 GHz	300 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Modulation: BLE 5.0 (GFSK 2 Mbps)

MIMO Mode: SISO

Results

Freq Rng (GHz)	Equipment	Freq (MHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
[0.03, 1]	Digital Transmission System (DTS)	2402	35.396	26.32	H	PK
[0.03, 1]	Digital Transmission System (DTS)	2402	35.396	21.12	H	QP
[0.03, 1]	Digital Transmission System (DTS)	2402	733.159	29.04	V	PK
[0.03, 1]	Digital Transmission System (DTS)	2402	733.159	23.37	V	QP
[0.03, 1]	Digital Transmission System (DTS)	2440	53.917	18.76	V	PK
[0.03, 1]	Digital Transmission System (DTS)	2440	53.917	13.62	V	QP
[0.03, 1]	Digital Transmission System (DTS)	2480	35.032	27.74	V	PK
[0.03, 1]	Digital Transmission System (DTS)	2480	35.032	21.58	V	QP

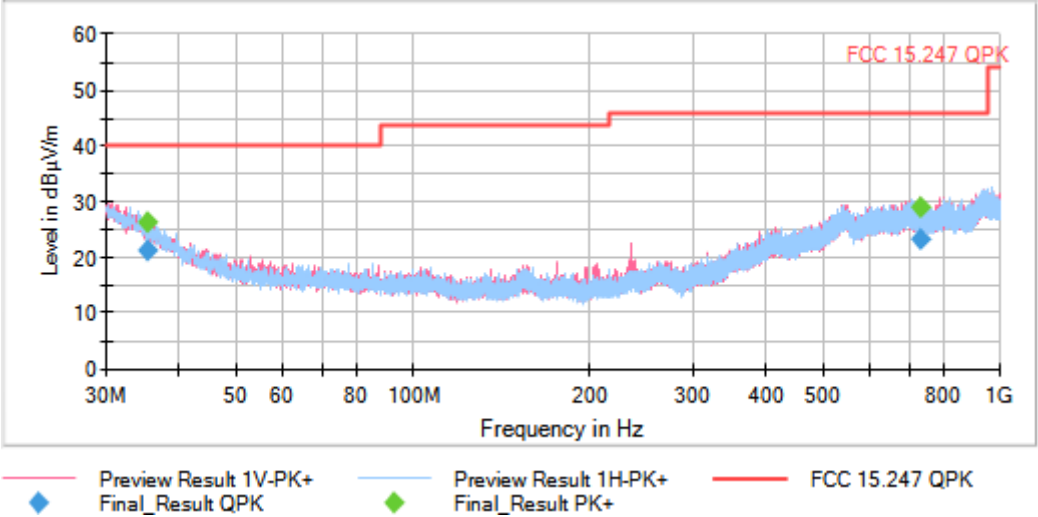
Verdict

Pass

Attachments

Frequency Range GHz = [0.03, 1] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2402
MIMO Mode = SISO Active Port = 1

Images:



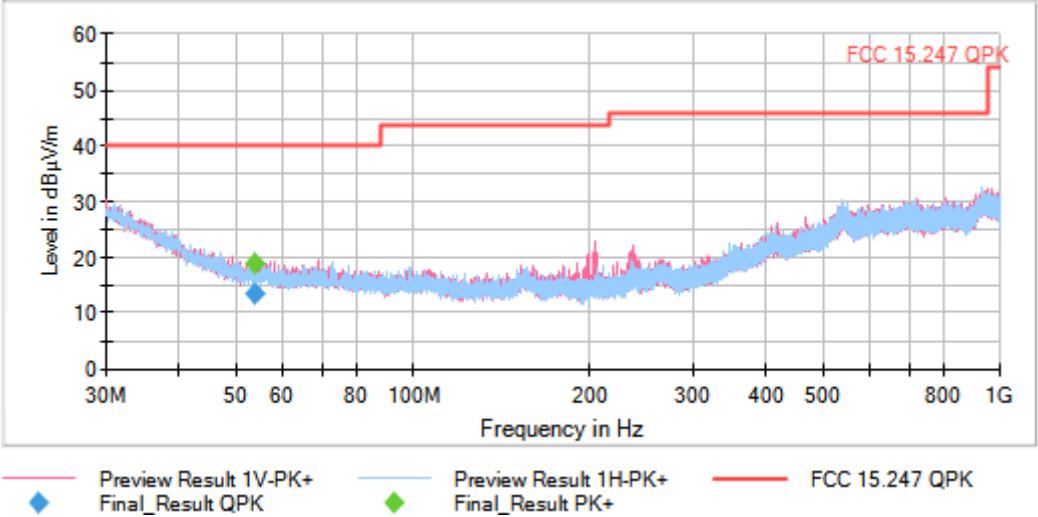
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	30 MHz - 1 GHz	30,312 kHz	PK+	100 kHz	1 s	0 dB

Frequency Range GHz = [0.03, 1] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2440
MIMO Mode = SISO Active Port = 1

Images:



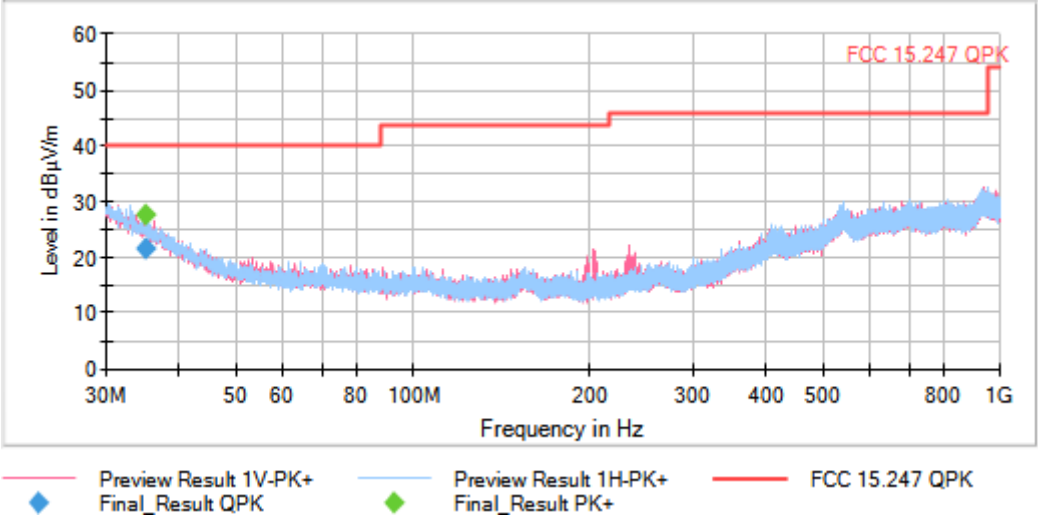
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	30 MHz - 1 GHz	30,312 kHz	PK+	100 kHz	1 s	0 dB

Frequency Range GHz = [0.03, 1] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2480
MIMO Mode = SISO Active Port = 1

Images:



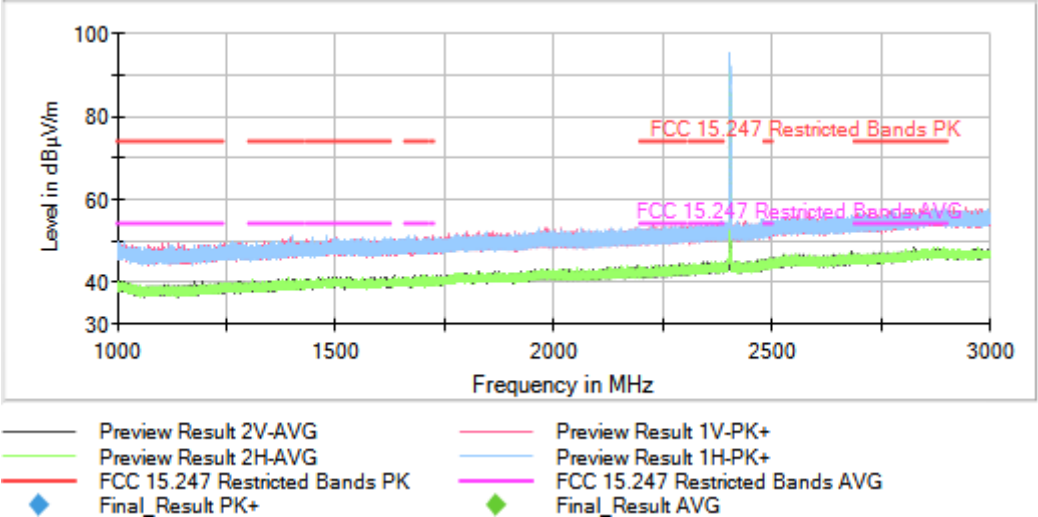
Tables:

Spectrum Analyzer Parameters

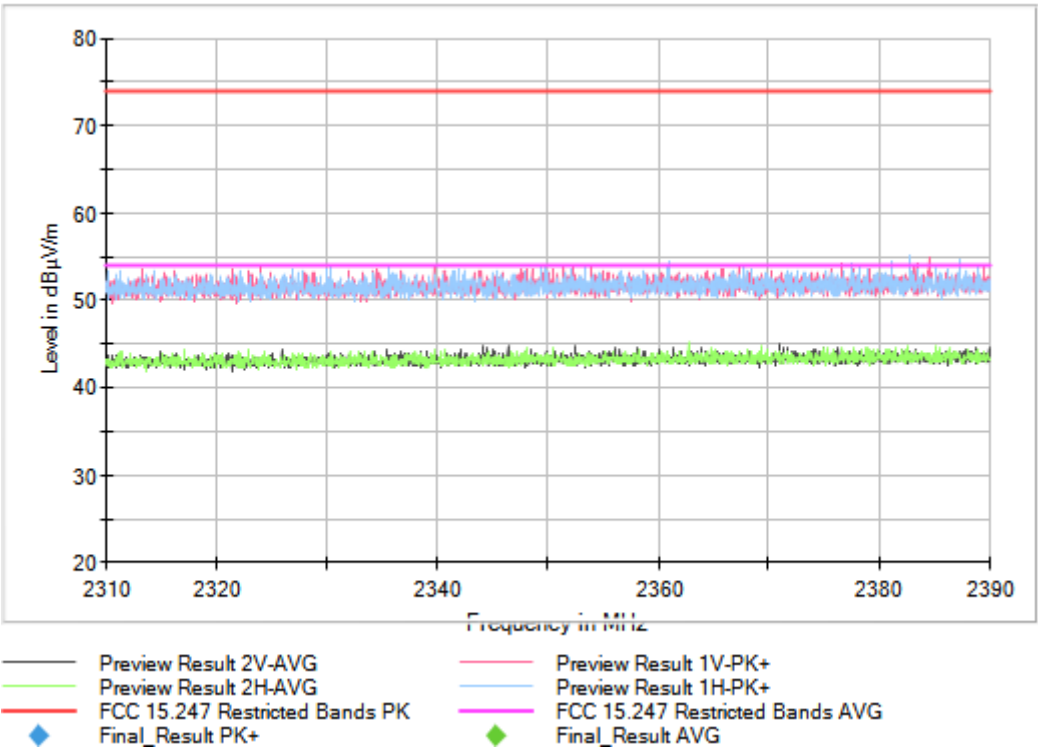
	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	30 MHz - 1 GHz	30,312 kHz	PK+	100 kHz	1 s	0 dB

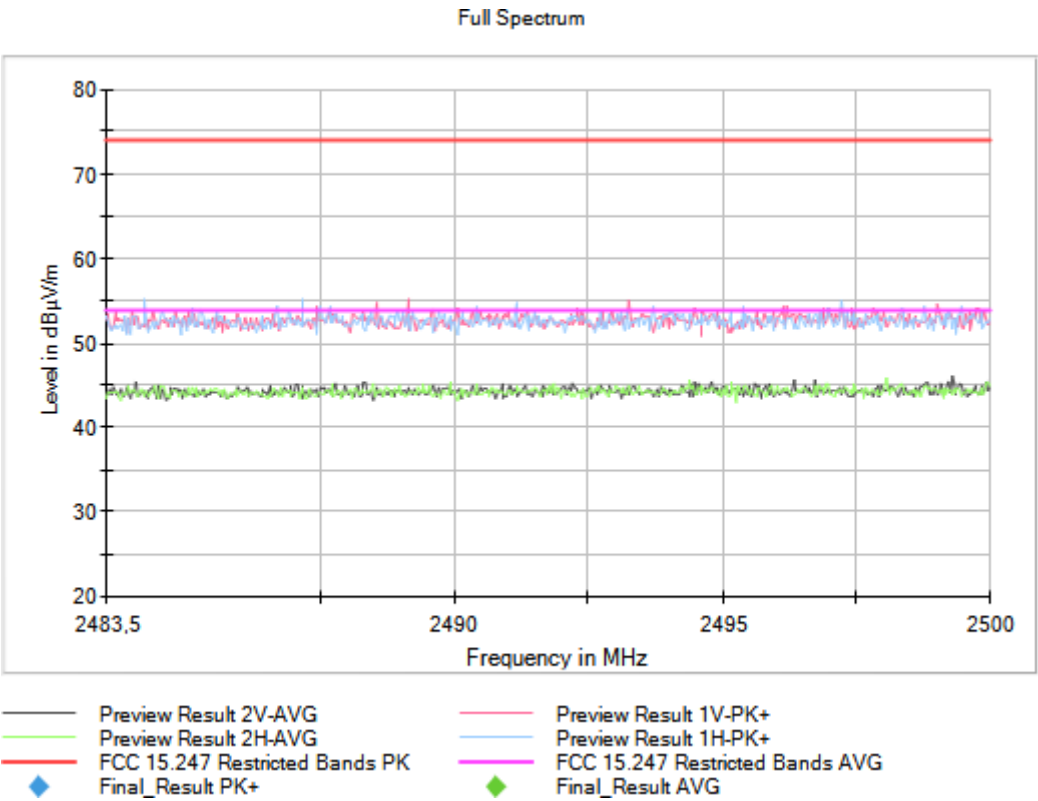
Frequency Range GHz = [1, 3] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2402
MIMO Mode = SISO Active Port = 1

Images:



Full Spectrum



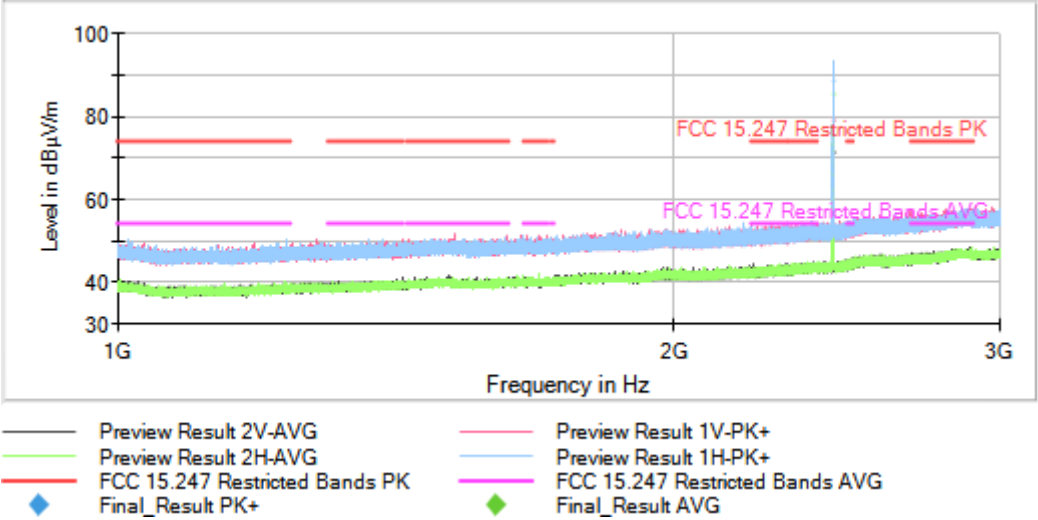


Tables:
Spectrum Analyzer Parameters

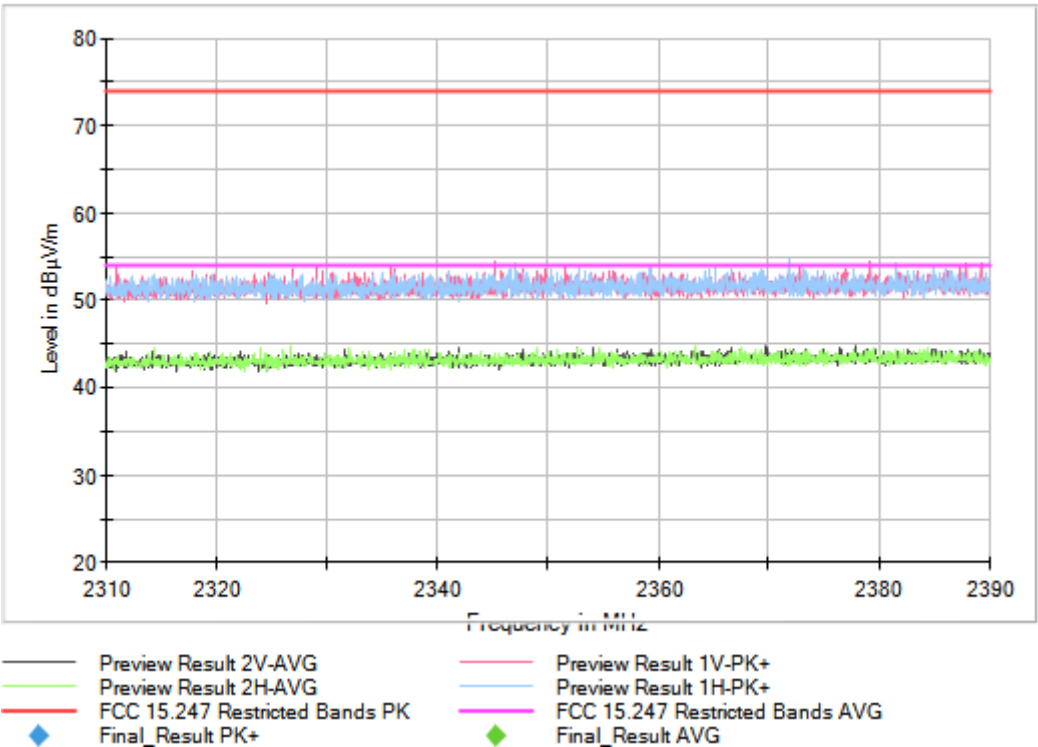
	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	1 GHz - 3 GHz	30,769 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

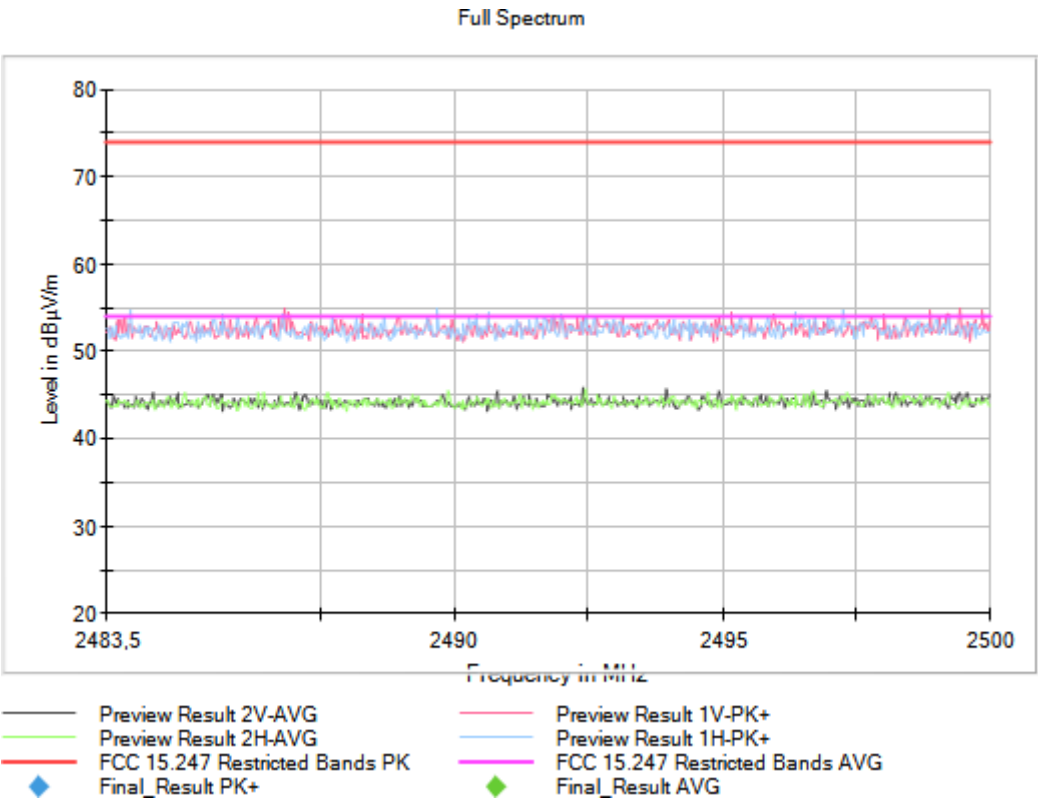
Frequency Range GHz = [1, 3] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2440
MIMO Mode = SISO Active Port = 1

Images:



Full Spectrum



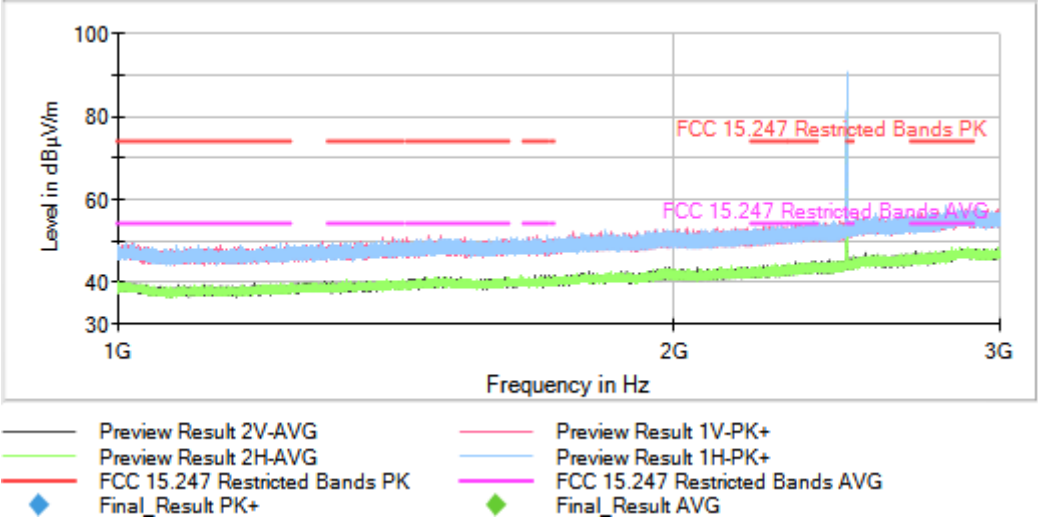


Tables:
Spectrum Analyzer Parameters

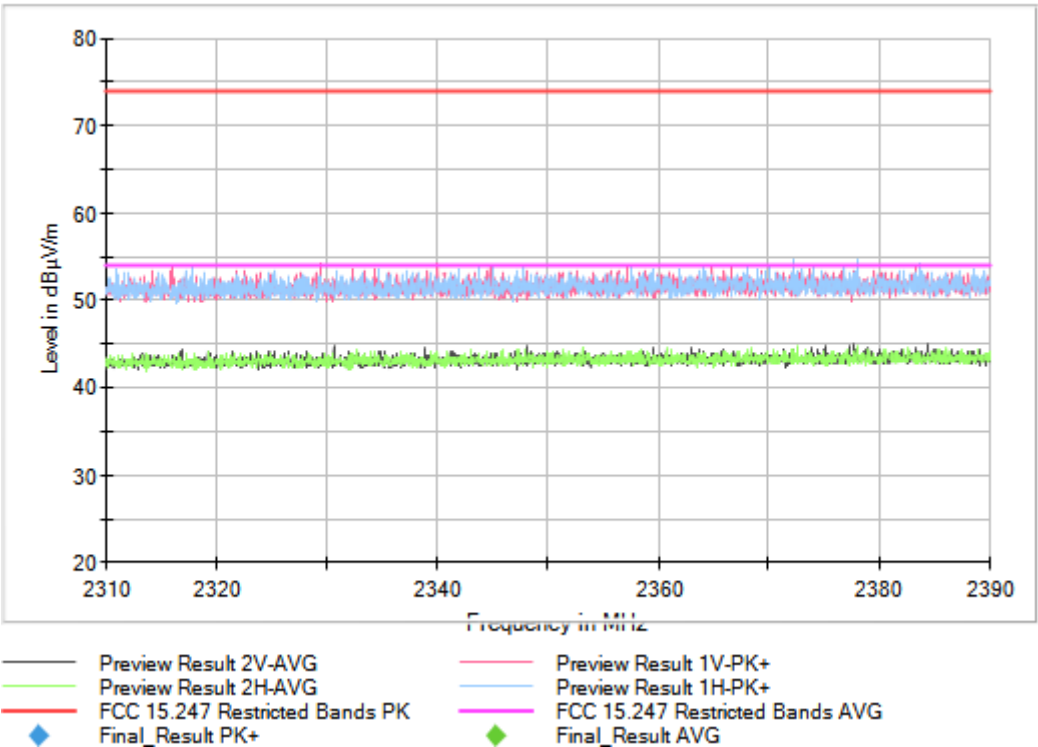
	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	1 GHz - 3 GHz	30,769 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

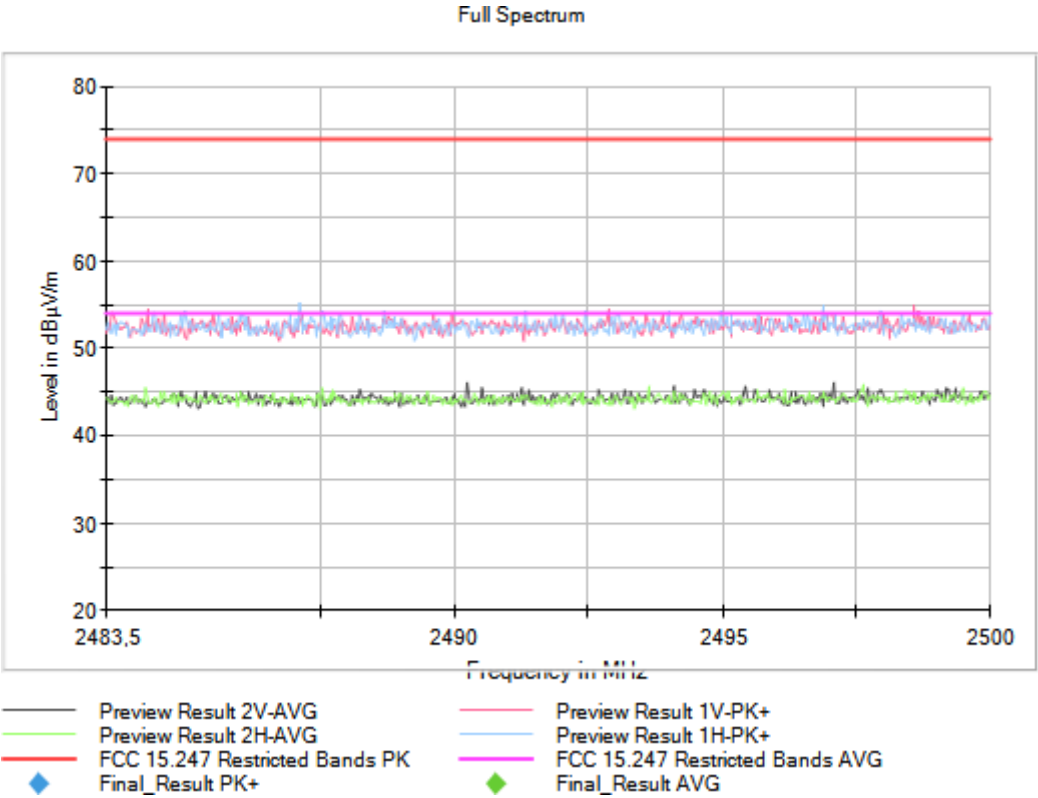
Frequency Range GHz = [1, 3] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2480
MIMO Mode = SISO Active Port = 1

Images:



Full Spectrum



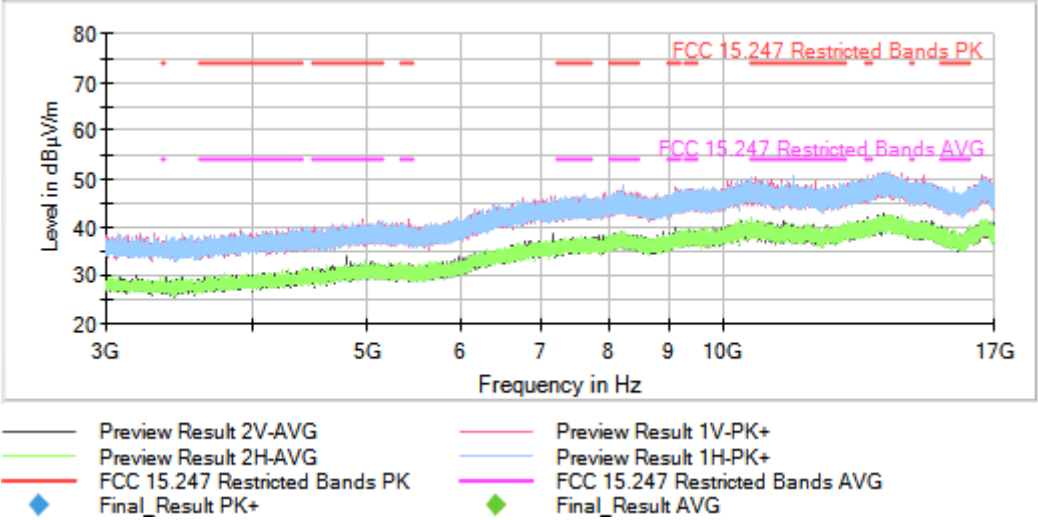


Tables:
Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	1 GHz - 3 GHz	30,769 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Frequency Range GHz = [3, 17] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2402
MIMO Mode = SISO Active Port = 1

Images:



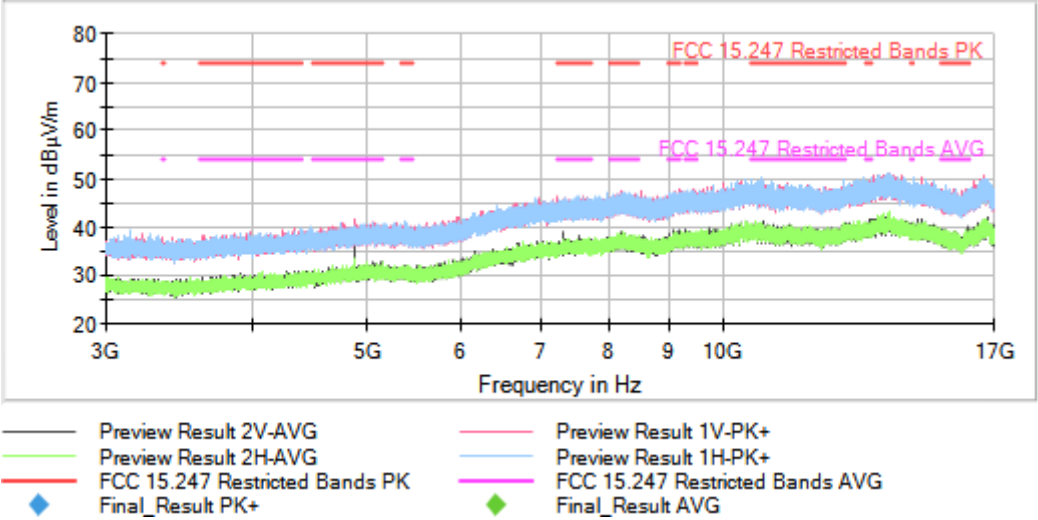
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	3 GHz - 17 GHz	140 kHz	PK+ ; AVG	1 MHz	1 s	30 dB

Frequency Range GHz = [3, 17] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2440
MIMO Mode = SISO Active Port = 1

Images:



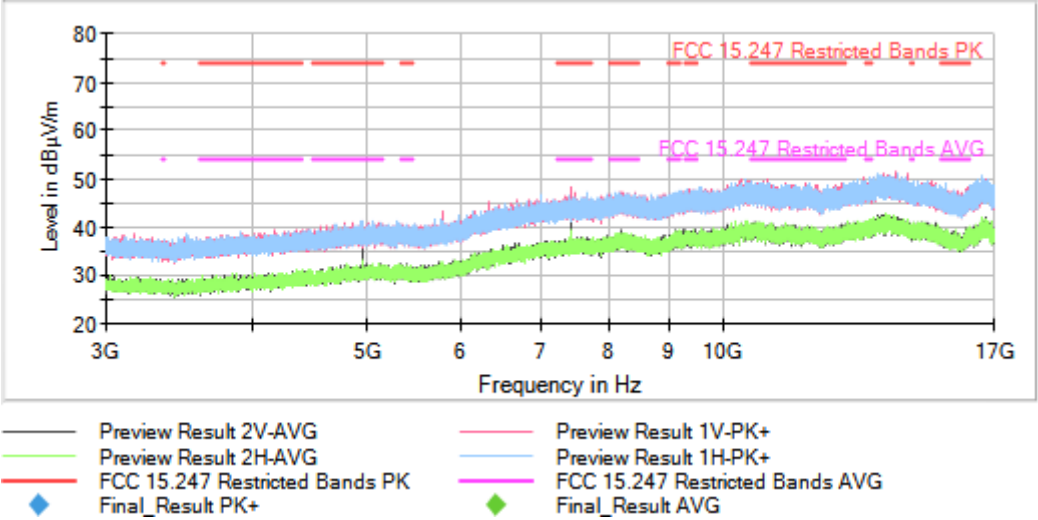
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	3 GHz - 17 GHz	140 kHz	PK+ ; AVG	1 MHz	1 s	30 dB

Frequency Range GHz = [3, 17] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2480
MIMO Mode = SISO Active Port = 1

Images:



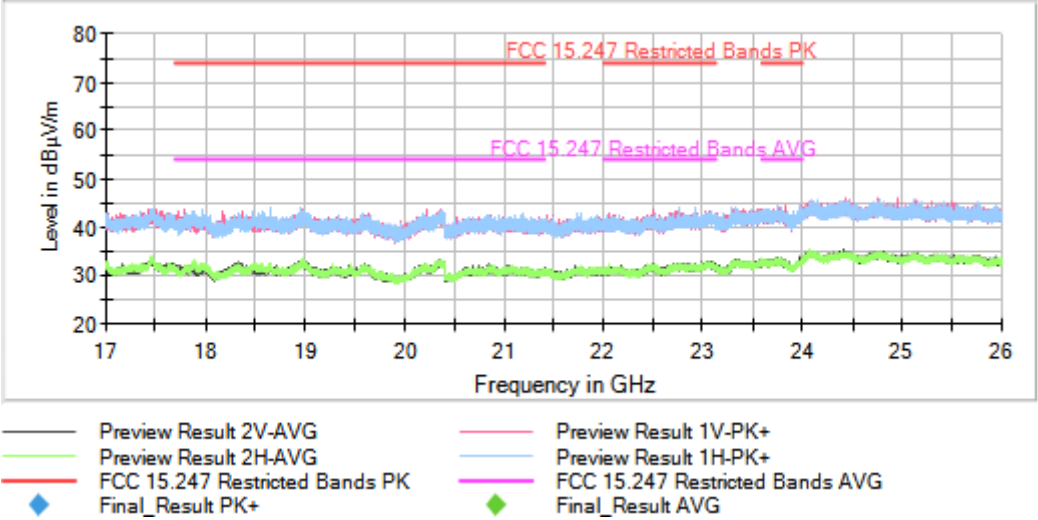
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	3 GHz - 17 GHz	140 kHz	PK+ ; AVG	1 MHz	1 s	30 dB

Frequency Range GHz = [17, 26] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2402
MIMO Mode = SISO Active Port = 1

Images:



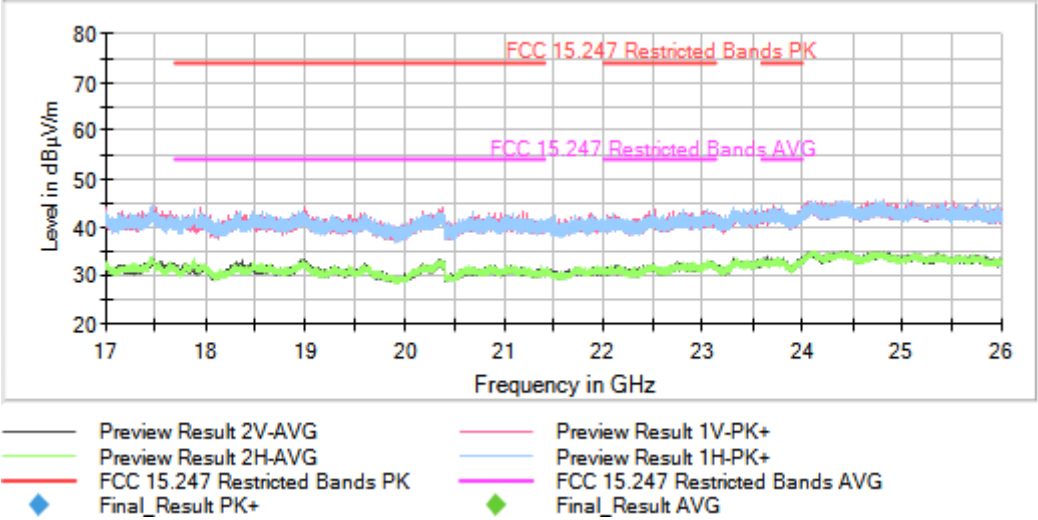
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [FSV 40]					
	17 GHz - 26 GHz	300 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Frequency Range GHz = [17, 26] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2440
MIMO Mode = SISO Active Port = 1

Images:



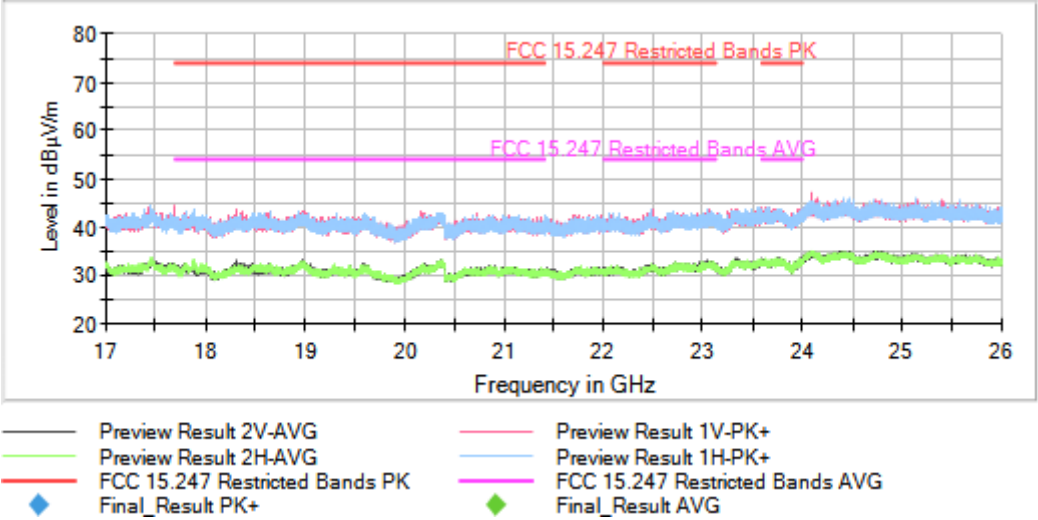
Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [FSV 40]					
	17 GHz - 26 GHz	300 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Frequency Range GHz = [17, 26] Equipment Type = Digital Transmission System (DTS)
Modulation = BLE 5.0 (GFSK 2 Mbps) Frequency MHz = 2480
MIMO Mode = SISO Active Port = 1

Images:



Tables:

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [FSV 40]					
	17 GHz - 26 GHz	300 kHz	PK+ ; AVG	1 MHz	1 s	0 dB