

ISED CABid: ES1909

Test Report No:
 NIE: 67242RRF.002

Test Report

USA FCC Part 15.247, 15.209

CANADA RSS-247, RSS-Gen

(*) Identification of item tested	Device used as remote microphone/audio for hearing aid
(*) Trademark	Widex
(*) Model and /or type reference	Sound Assist
Other identification of the product	--
(*) Features	Bluetooth LE HW version: P2.1b SW version: v0.11.136 FCC ID: 2AXDT-WSA IC: 26428-WSA
Applicant	WSAUD A/S Nymøllevej 6 DK-3540 Lynge, Denmark
Test method requested, standard	USA FCC Part 15.247 (10-1-20 Edition): Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz. USA FCC Part 15.209 (10-1-20 Edition): Radiated emission limits; general requirements. CANADA RSS-247 Issue 2 (February 2017). CANADA RSS-Gen Issue 5 amendment 1 (March 2019). 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)	Rafael López Martín EMC Consumer & RF Lab. Manager
Date of issue	2022-10-28
Report template No	FDT08_24 (*) "Data provided by the client"

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Acronyms

Acronym ID	Acronym Description
# of Tx Chains	Number of Transmission Chains
26Ebw	Emission Bandwidth
BW	Bandwidth
Detector	Detector used
Equipment	Equipment Type
Freq	Frequency
Freq Rng	Frequency Range
Inband Peak Lvl	Inband Peak Level
Lvl	Level
MP	Measurement Point
Mod	Modulation
Occ Ch BW	Occupied Channel Bandwidth
PSD	Power Spectrum 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 is a FCC-recognized accredited testing laboratory with appropriate scope of accreditation that covers the performed tests in this report.

DEKRA Testing and Certification is an ISED-recognized accredited testing laboratory, CABid: ES1909, 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.

DEKRA Testing and Certification S.A.U. 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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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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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 Device used as remote microphone/audio for hearing aid.

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.

Usage of samples

Samples under test have been selected by: The client.

Id	Control Number	Description	Model	Serial N°	Date of Reception	Application
S/01	67242E_39.1	Widex Sound Assist device	DK-3540		2022-07-08	Element Under Test
	67242E_35.1	USB cable	--	--	2022-07-08	Element Under Test
S/02	67242E_39.1	Widex Sound Assist device	DK-3540		2022-07-08	Element Under Test
	67242E_35.1	USB cable	--	--	2022-07-08	Element Under Test
	67242E_56.1	SMA cable	--	--	2022-09-22	Auxiliary Element
S/03	67242E_50.1	Widex Sound Assist device	DK-3540	--	2022-09-22	Element Under Test
	67242E_55.1	USB cable	--	--	2022-09-28	Element Under Test
	67242E_57.1	AC/DC adapter	ADS-6RH-06N	--	2022-09-28	Element Under Test
	67242E_46.1	USB cable	--		2022-08-30	Auxiliary Element
	67242E_47.1	Ethernet cable	--		2022-08-30	Auxiliary Element
	67242E_48.1	USB-SPI converter	1324 USB-SPI	373627	2022-08-30	Auxiliary Element
	67242E_51.1	PCB Ethernet	M1616V2	--	2022-09-22	Auxiliary Element
S/04	67242E_54.1	Widex Sound Assist device	DK-3540	--	2022-09-22	Element Under Test
	67242E_52.1	USB cable	--	--	2022-09-22	Element Under Test
	67242E_57.1	AC/DC adapter	ADS-6RH-06N	--	2022-09-28	Element Under Test
	67242E_46.1	USB cable	--		2022-08-30	Auxiliary Element
	67242E_47.1	Ethernet cable	--		2022-08-30	Auxiliary Element
	67242E_48.1	USB-SPI converter	1324 USB-SPI	373627	2022-08-30	Auxiliary Element
	67242E_51.1	PCB Ethernet	M1616V2	--	2022-09-22	Auxiliary Element
	67242E_56.1	Micro-SMA cable	--	--	2022-09-22	Auxiliary Element

Id	Control Number	Description	Model	Serial Nº	Date of Reception	Application
S/05	67242E_60.1	Widex Sound Assist device	DK-3540	--	2022-09-22	Element Under Test
	67242E_52.1	USB cable	--	--	2022-09-22	Element Under Test
	67242E_57.1	AC/DC adapter	ADS-6RH-06N	--	2022-09-28	Element Under Test
	67242E_46.1	USB cable	--		2022-08-30	Auxiliary Element
	67242E_47.1	Ethernet cable	--		2022-08-30	Auxiliary Element
	67242E_48.1	USB-SPI converter	1324 USB-SPI	373627	2022-08-30	Auxiliary Element
	67242E_51.1	PCB Ethernet	M1616V2	--	2022-09-22	Auxiliary Element
	67242E_56.1	Micro-SMA cable	--	--	2022-09-22	Auxiliary Element

Notes referenced to samples during the project:

Id	Type
S/01	Radiated sample for BLE testing
S/02	Conducted sample for BLE testing
S/03	Radiated sample for BT EDR testing
S/04 and S/05	Conducted samples for BT EDR testing

Test sample description

Ports..... :	Port name and description	Cable					
		Max length [m]	Attached during test	Shielded	Coupled to patient ⁽³⁾		
	USB-C	2m	[X]	[]	[]		
Supplementary information to the ports..... :	.....					
Rated power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	[]	AC:	[]	[]	[]	[]	[]
	[X]	DC: 5V					
Rated Power	5W using supplied power supply brick.						
Clock frequencies..... :	.....					
Other parameters .....	.....					
Software version	v0.11.136						
Hardware version	P2.1b						
Dimensions in cm (W x H x D) .....	.....					
Mounting position	[X]	Table top equipment					
	[]	Wall/Ceiling mounted equipment					
	[]	Floor standing equipment					
	[X]	Hand-held equipment					
	[X]	Other: Worn around neck.					
Modules/parts..... :	Module/parts of test item		Type	Manufacturer			
	AG5 device		.....	.....	
	USB-C cable		.....	.....	
	Power Supply Brick		.....	.....	
Accessories (not part of the test item)	Description		Type	Manufacturer			
	Wall brick Charger, EU		ADS-6RH-06N 05050EPG	Honor			
	Wall brick Charger, US/Japan/Taiwan		ADS-6RA-06 05050EPCU	Honor			
	Wall brick Charger, China		ADS-6RA-06 05050EPCN	Honor			
	Wall brick Charger, UK		ADS-6RH-06N 05050EPB	Honor			
	Note: All chargers use same schematic.		.....	.....	
Documents as provided by the applicant..... :	Description		File name	Issue date			
					

⁽³⁾ Only for Medical Equipment

Identification of the client

WSAUD A/S

Nymøllevej 6 DK-3540 Lynge, Denmark

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2022-07-20
Date (finish)	2022-10-21

Document history

Report number	Date	Description
67242RRF.002	2022-10-27	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: Daniel Mejías Herrera, Fernando Chito Solis and Jia Hao Luo Chen, Antonio Manuel Sánchez Carrizo, José Arturo Chica Arnedo and Victoria Olmedo Villalba.

Used instrumentation:

Control No.	Equipment	Model	Manufacturer	Next Calibration
5862	EMI TEST RECEIVER 9kHz-7GHz	ESR7	ROHDE AND SCHWARZ	2022-12-12
7796	EXTENSION FOR OPEN SWITCH UNIT UP TO 40GHz	OSP-B157Wx	ROHDE AND SCHWARZ	2024-03-16
7763	HORN ANTENNA 1-18GHz	BBHA 9120D	SCHWARZBECK MESS-ELEKTRONIK	2022-11-15
6495	HORN ANTENNA 18-40GHz	BBHA 9170	SCHWARZBECK	2024-03-19
8848	OPEN SWITCH UNIT UP TO 7.5 GHz	OSP-B157W8 PLUS	ROHDE & SCHWARZ	2023-08-20
0922	POWER SUPPLY DC 40 V / 40 A	NGPE 40/40	ROHDE AND SCHWARZ	--
7862	PRE-AMPLIFIER G>30dB 18-40GHz	BLMA 1840-3G	BONN ELEKTRONIK	2023-02-15
7769	PREAMPLIFIER 30dB 500MHz-18GHz	BBV 9718 C	SCHWARZBECK	2023-03-25
8130	SEMIANECHOIC ABSORBER LINED CHAMBER	P29419	ALBATROSS	--
8134	SHIELDED ROOM	P29419	ALBATROSS PROJECTS GMBH	--
6793	SHIELDED ROOM	S101	ETS LINDGREN	--
6158	SIGNAL AND SPECTRUM ANALYZER 10Hz-40GHz	FSV40	ROHDE AND SCHWARZ	2023-10-22
7794	SIGNAL AND SPECTRUM ANALYZER 10Hz-40GHz	FSV40	ROHDE AND SCHWARZ	2023-02-26
7791	SIGNAL GENERATOR 8kHz-6GHz	SMB100B	ROHDE AND SCHWARZ	2023-11-03
4848	SOFTWARE FOR EMC/RF TESTING	EMC32	ROHDE AND SCHWARZ	--
7550	TEMPERATURE AND HUMIDITY PROBE	HWg-STE	HW GROUP	2023-05-09
7549	TEMPERATURE AND HUMIDITY PROBE	HWg-STE	HW GROUP	2023-05-09
6611	TEMPERATURE AND HUMIDITY PROBE	HWg-STE	HW GROUP	2023-05-04
7826	ULTRALOG ANTENNA 30MHz-6GHz	HL562E_UPG	ROHDE AND SCHWARZ	2022-10-15
7795	WIRELESS CONNECTIVITY TESTER BW 160 MHz	CMW270	ROHDE AND SCHWARZ	2022-11-30

Control No.	Equipment	Model	Manufacturer	Next Calibration
8848	OPEN SWITCH UNIT UP TO 7.5 GHz	OSP-B157W8 PLUS	ROHDE & SCHWARZ	2023-08-20
7798	WMS32	WMS32	ROHDE AND SCHWARZ	--

Testing verdicts

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

Summary

1. Bluetooth Low Energy 5.0 (2M, 1M). Appendix A.

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			

2. Bluetooth EDR. Appendix B.

Requirement – Test case	FCC PART 15 PARAGRAPH/ RSS-247	Verdict	Remark
FCC 15.247 (a) (1) 20 dB Bandwidth and Carrier frequency separation RSS-247 5.1. (b)		P	--
FCC 15.247 (a) (1) (iii) Time of Occupancy (Dwell Time) RSS-247 5.1. (d)		P	--
FCC 15.247 (b) Maximum peak output power and antenna gain RSS-247 5.4. (b)		P	--
FCC 15.247 (a) (1) (iii) Number of hopping channels RSS-247 5.1 (d)		P	--
FCC 15.247 (d) Band-edge emissions compliance (Transmitter) RSS-247 5.5.		P	--
FCC 15.247 (d) Emission limitations radiated (Transmitter) RSS-247 5.5.		P	--
<u>Supplementary information and remarks:</u>			
None.			

Appendix A: Test results. Bluetooth Low Energy 5.0 (2M, 1M)

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<i>RSS-247 5.5 / FCC 15.247 (d) [Bndedge] Band-edge emissions compliance (Transmitter)</i>	47
<i>RSS-247 5.5 / FCC 15.247 (d) [RSE] Emission limitations radiated (Transmitter)</i>	59

TEST CONDITIONS

(*): Data provided by the client.

POWER SUPPLY (*):

Vnominal:	5Vdc
Type of Power Supply:	External power supply

ANTENNA (*):

Type of Antenna:	Internal
Maximum Declared Antenna Gain:	1.3dBi

TEST FREQUENCIES (*):

Low Channel:	2402 MHz
Middle Channel:	2440 MHz
High Channel:	2480 MHz

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).

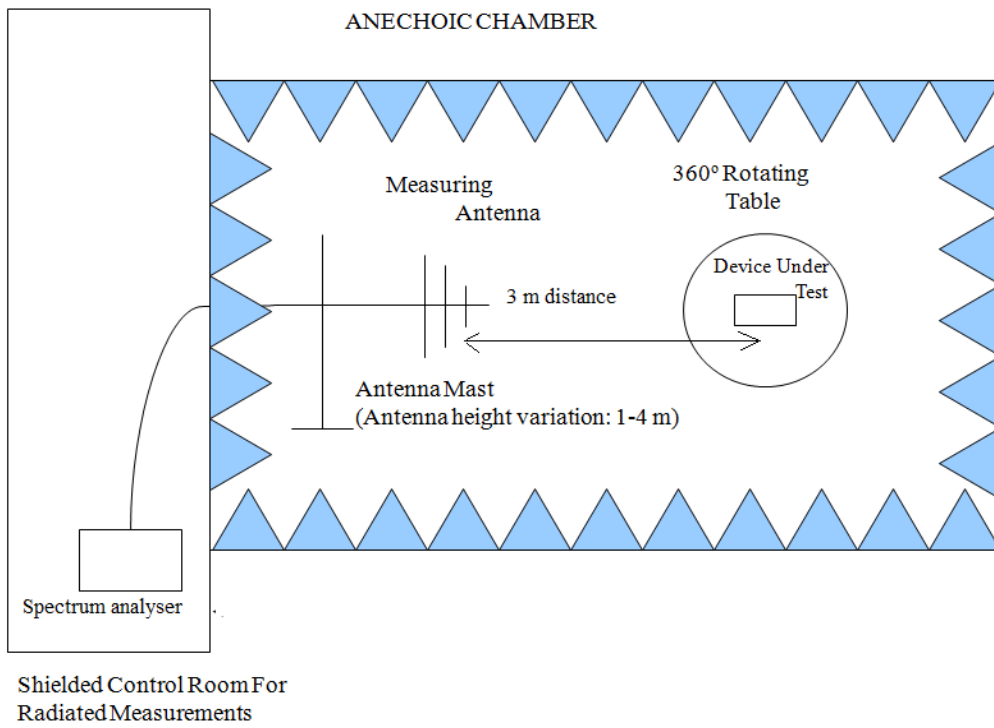
For radiated emissions in the range 17 GHz-26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

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.

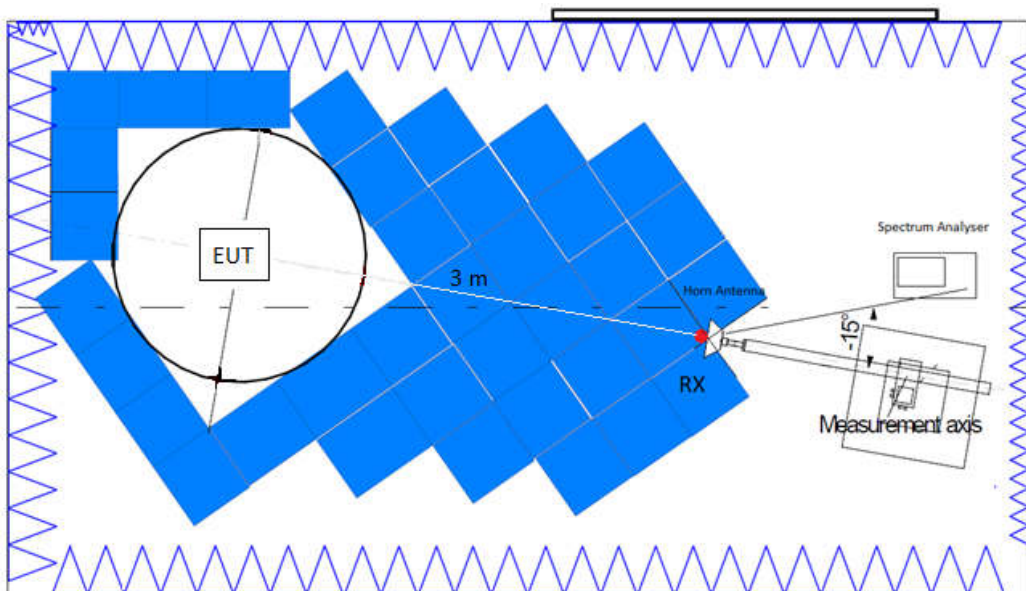
Measurements were made in both horizontal and vertical planes of polarization.

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.

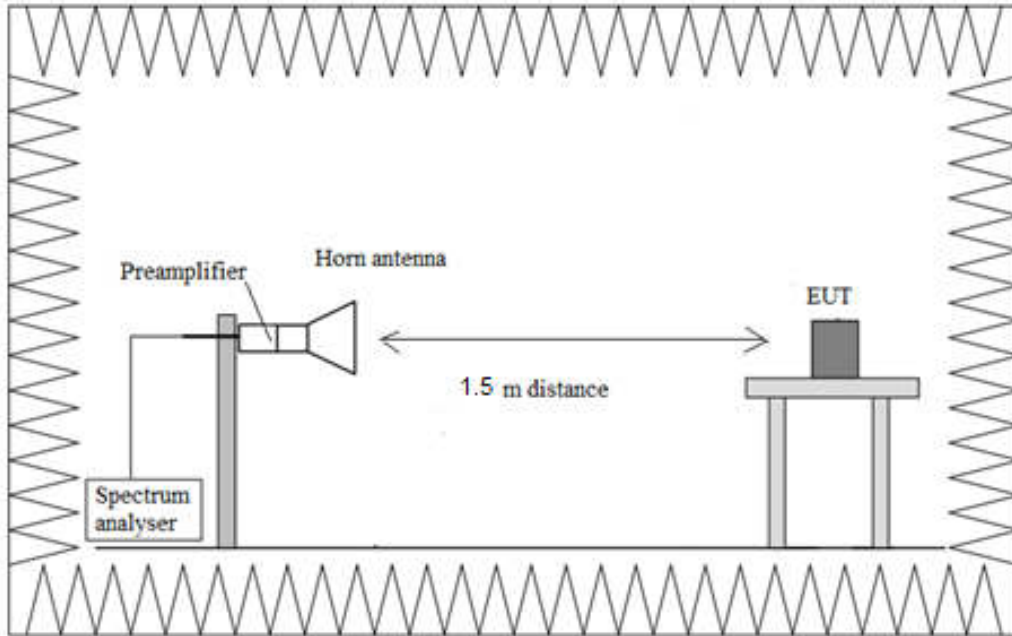
Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup from 1 GHz to 17 GHz:



Radiated measurements setup $f > 17$ GHz:



TEST CASES DETAILS

FCC 47 CFR Part 15.247 / RSS-247 99dBw Occupied Channel Bandwidth 99%

Modulation: BTLE 5.0 (GFSK 1 Mbit/s)

Results

Freq (MHz)	Equipment	BW (MHz)	# of Tx Chains	Port	Occ Ch BW (MHz)
2402.00000	Digital Transmission System (DTS)	1	1	1	1.050
2440.00000	Digital Transmission System (DTS)	1	1	1	1.060
2480.00000	Digital Transmission System (DTS)	1	1	1	1.055

Verdict

Pass

Modulation: BTLE 5.0 (GFSK 2 Mbit/s)

Results

Freq (MHz)	Equipment	BW (MHz)	# of Tx Chains	Port	Occ Ch BW (MHz)
2402.00000	Digital Transmission System (DTS)	2	1	1	2.030
2440.00000	Digital Transmission System (DTS)	2	1	1	2.040
2480.00000	Digital Transmission System (DTS)	2	1	1	2.020

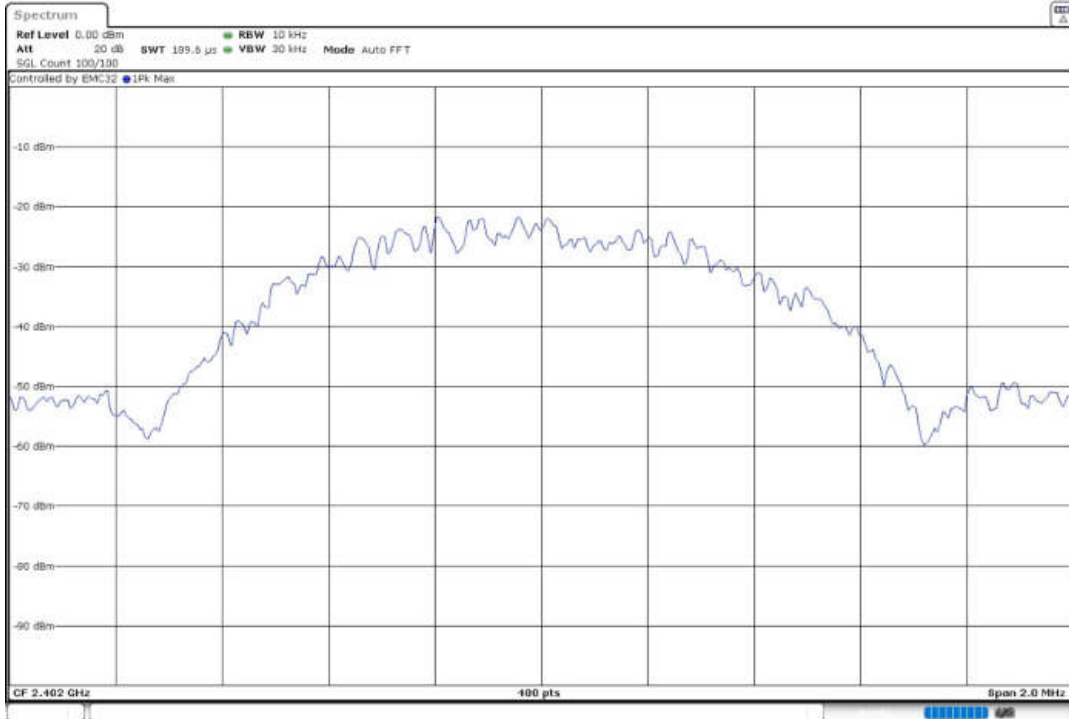
Verdict

Pass

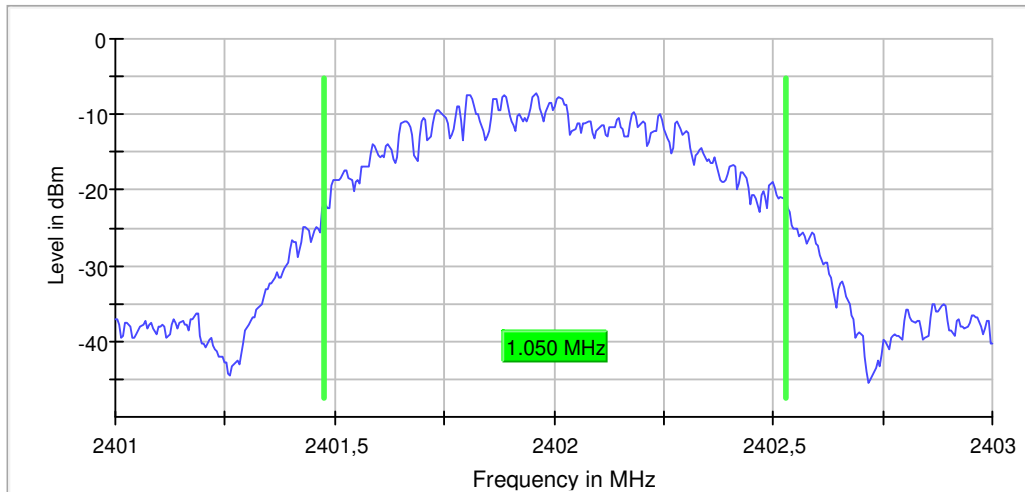
Attachments

Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 2, Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:

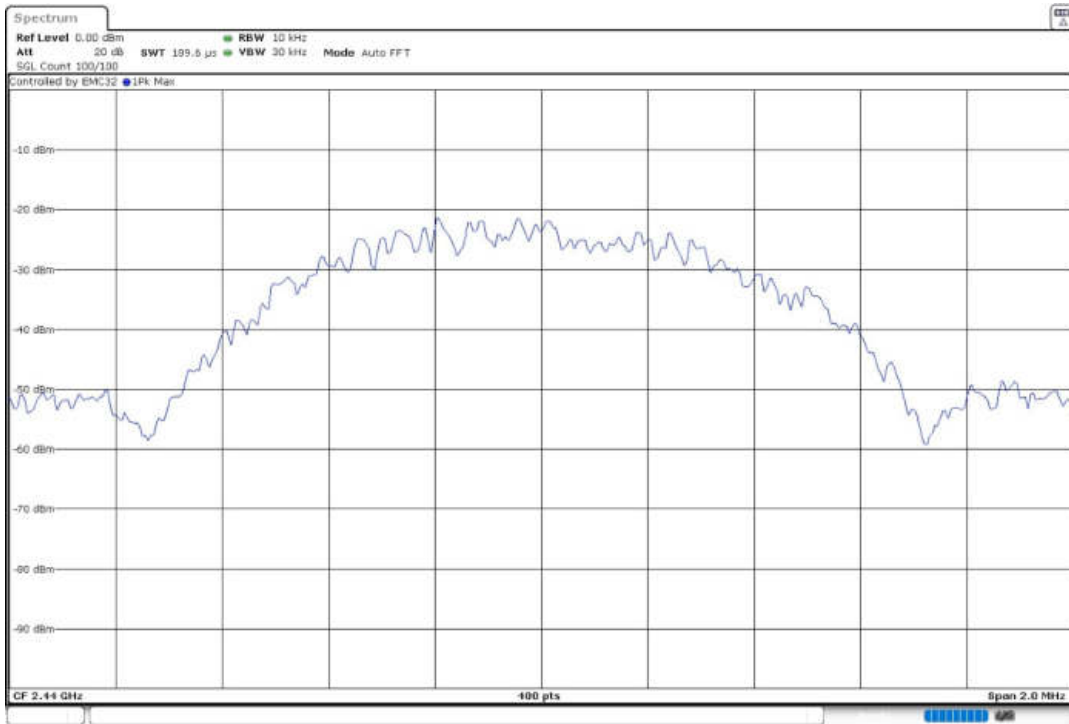


99 % Bandwidth

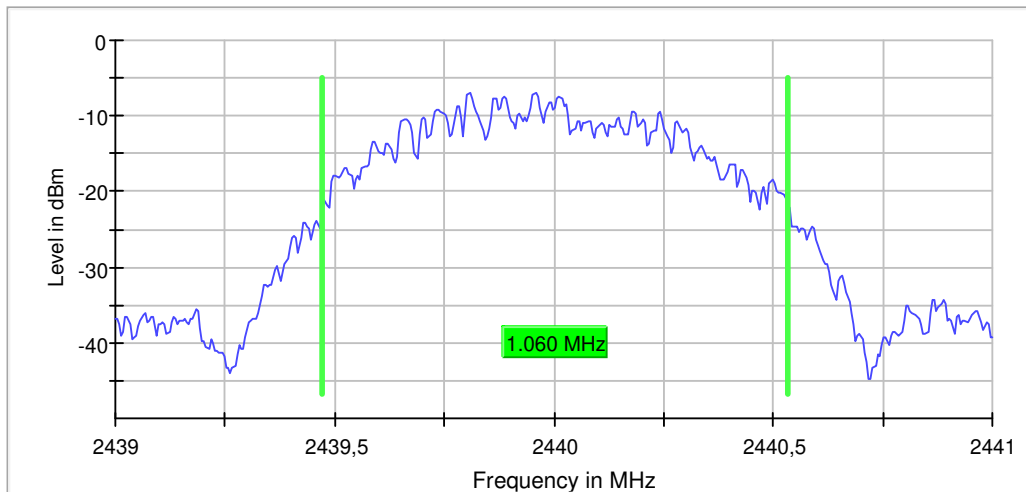


Frequency MHz = 2440.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 2,
Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:

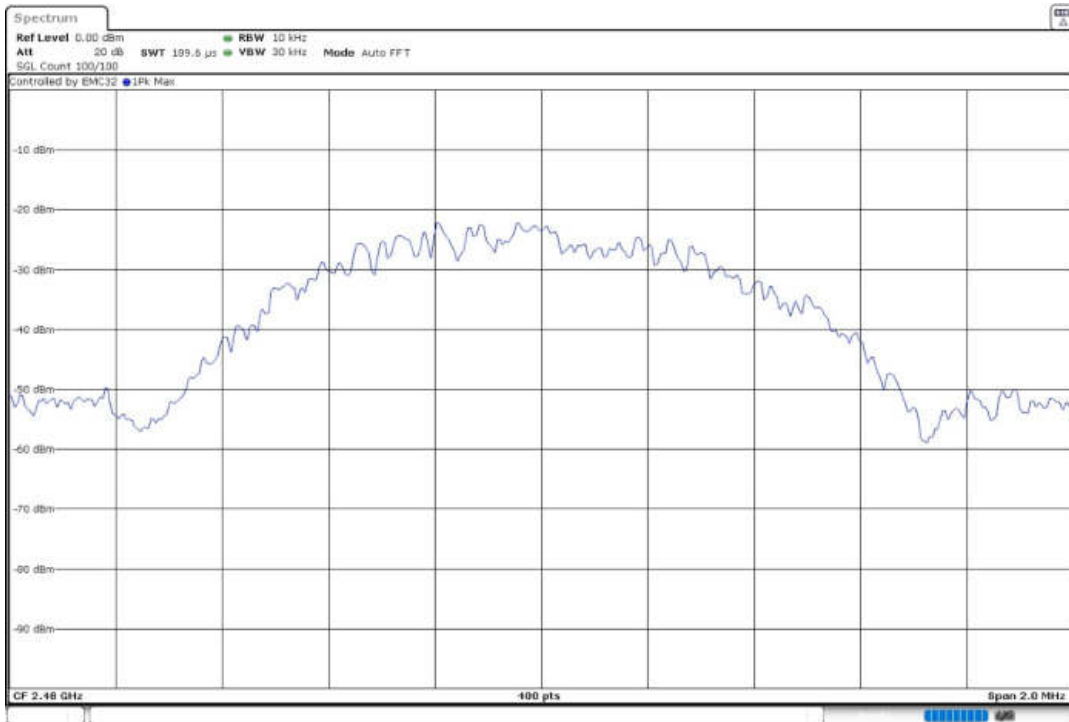


99 % Bandwidth

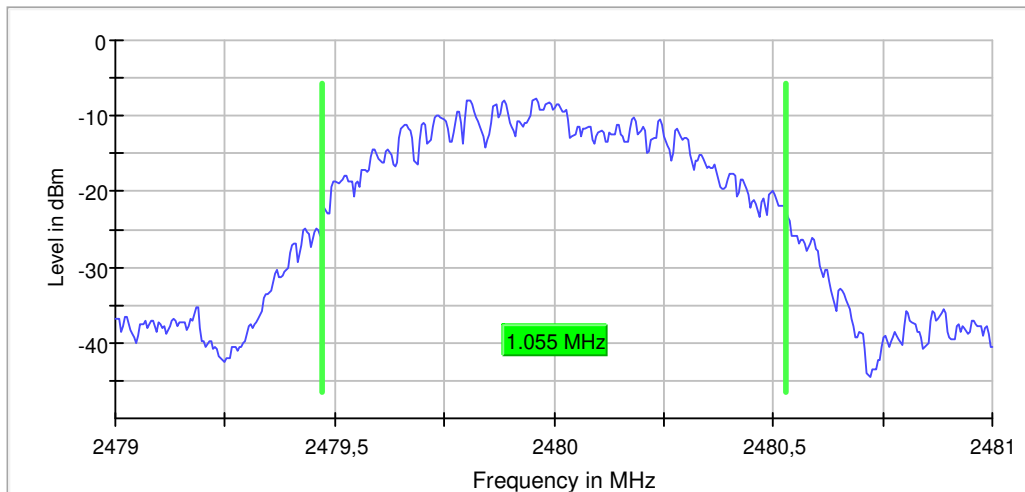


Frequency MHz = 2480.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 2,
Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:

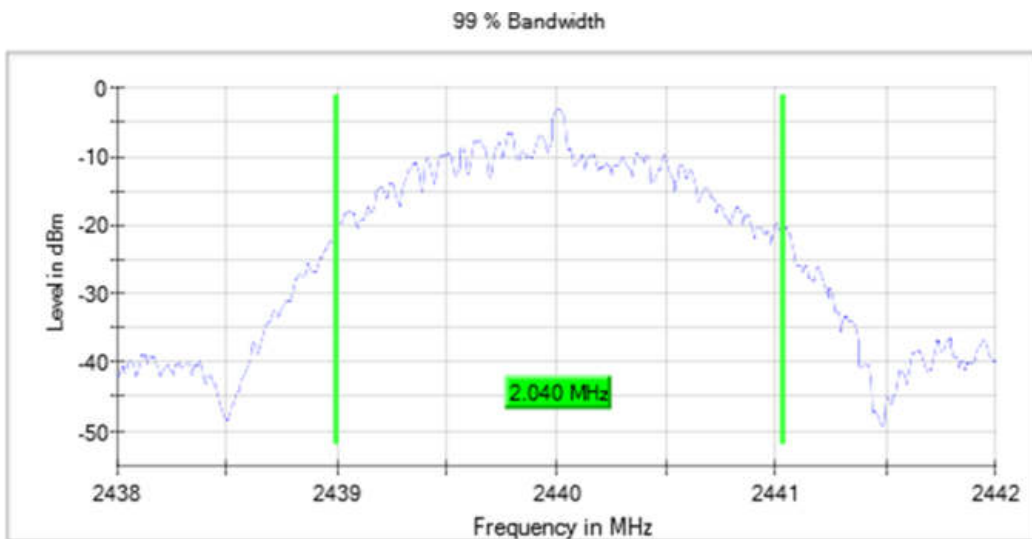
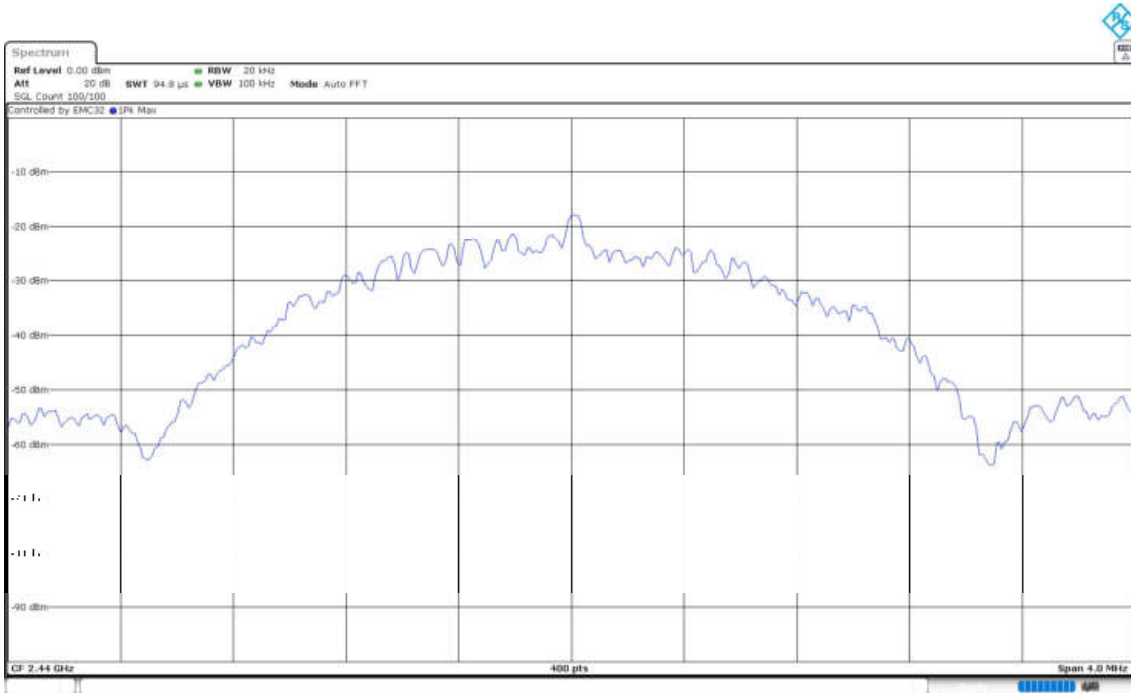


99 % Bandwidth



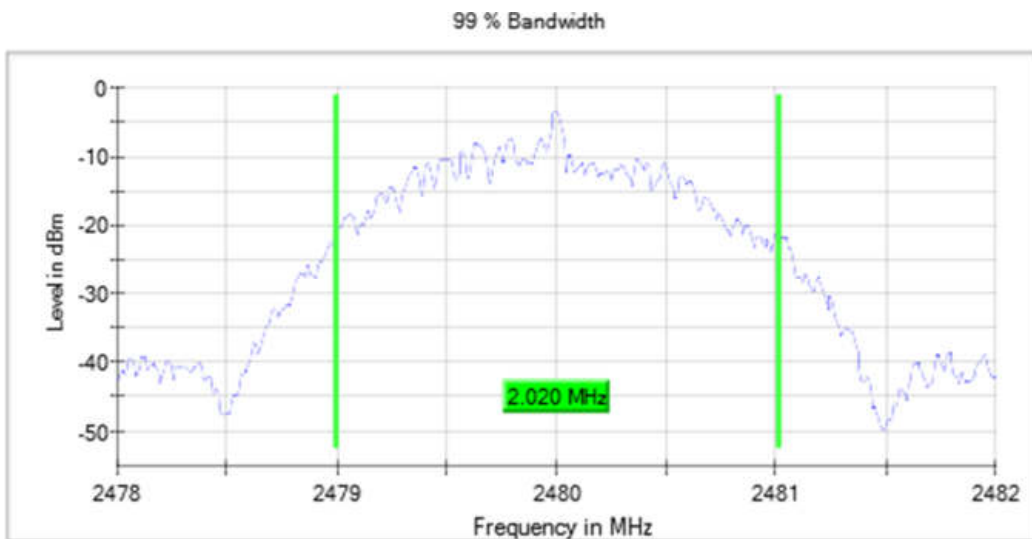
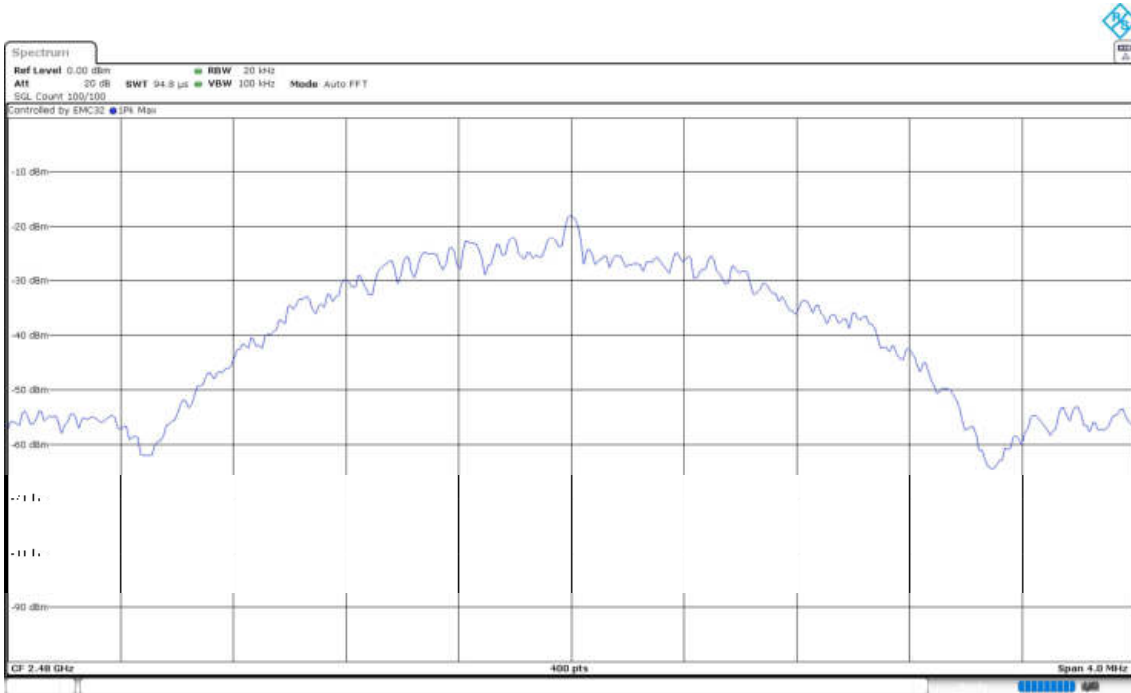
Frequency MHz = 2440.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 2,
Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:



Frequency MHz = 2480.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 2,
Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Number of Transmission Chains = 1, 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: BTLE 5.0 (GFSK 1 Mbit/s)

Results

Freq (MHz)	BW (MHz)	# of Tx Chains	Port	6Ebw (MHz)
2402.00000	1	1	1	0.733
2440.00000	1	1	1	0.733
2480.00000	1	1	1	0.733

Verdict

Pass

Modulation: BTLE 5.0 (GFSK 2 Mbit/s)

Results

Freq (MHz)	BW (MHz)	# of Tx Chains	Port	26Ebw (MHz)
2402.00000	2	1	1	1.188
2440.00000	2	1	1	1.188
2480.00000	2	1	1	1.188

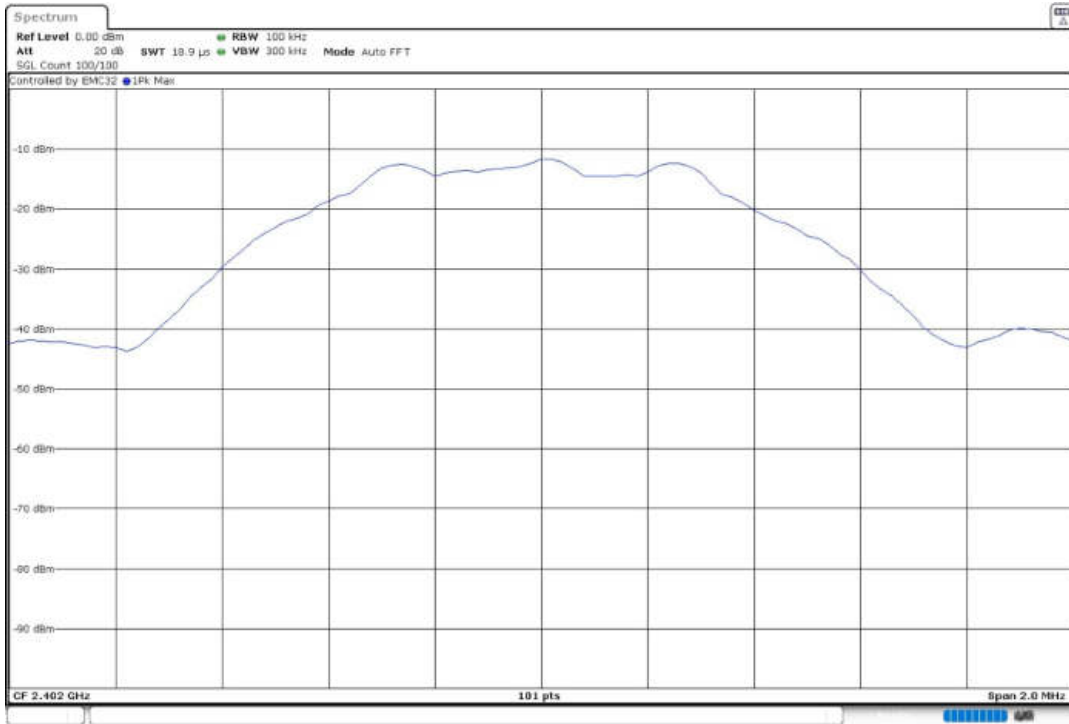
Verdict

Pass

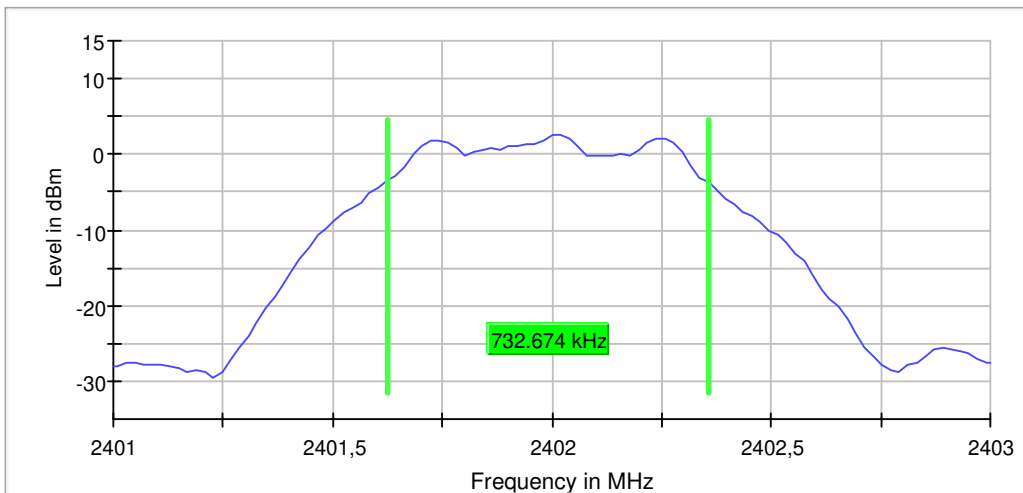
Attachments

Frequency MHz = 2402.00000, Bandwidth MHz = 1, Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:



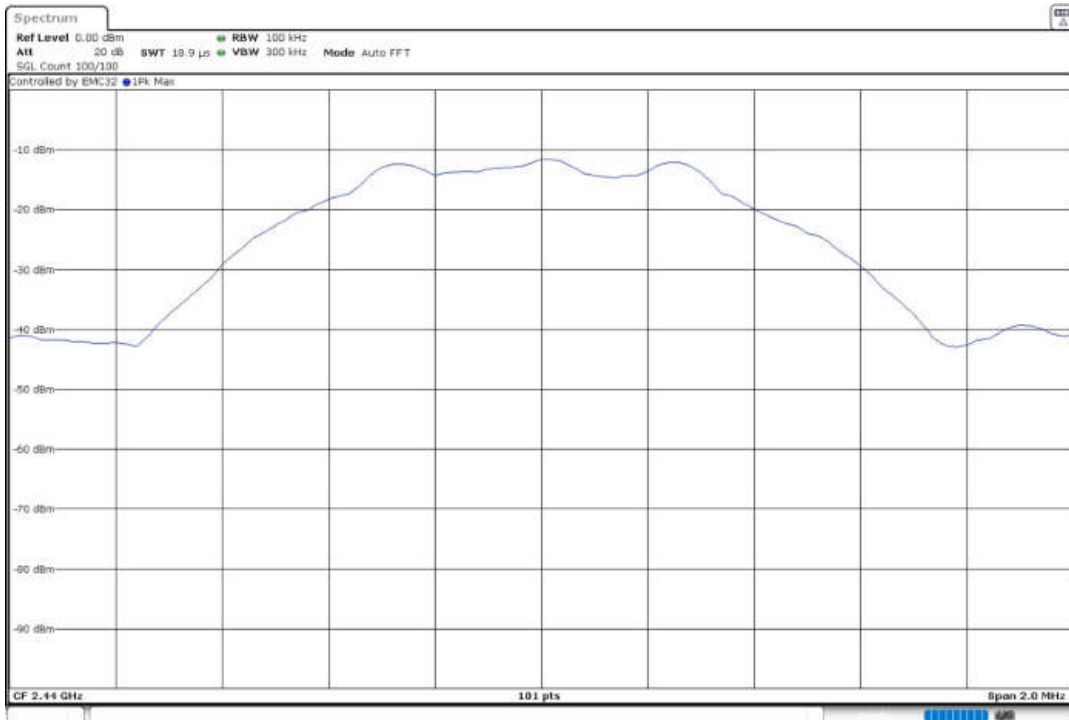
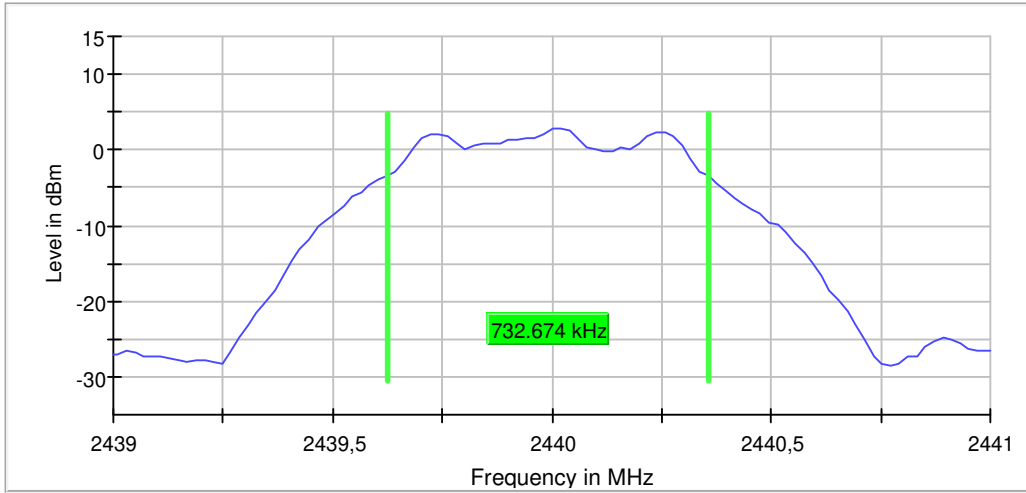
6 dB Bandwidth



Frequency MHz = 2440.00000, Bandwidth MHz = 1, Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

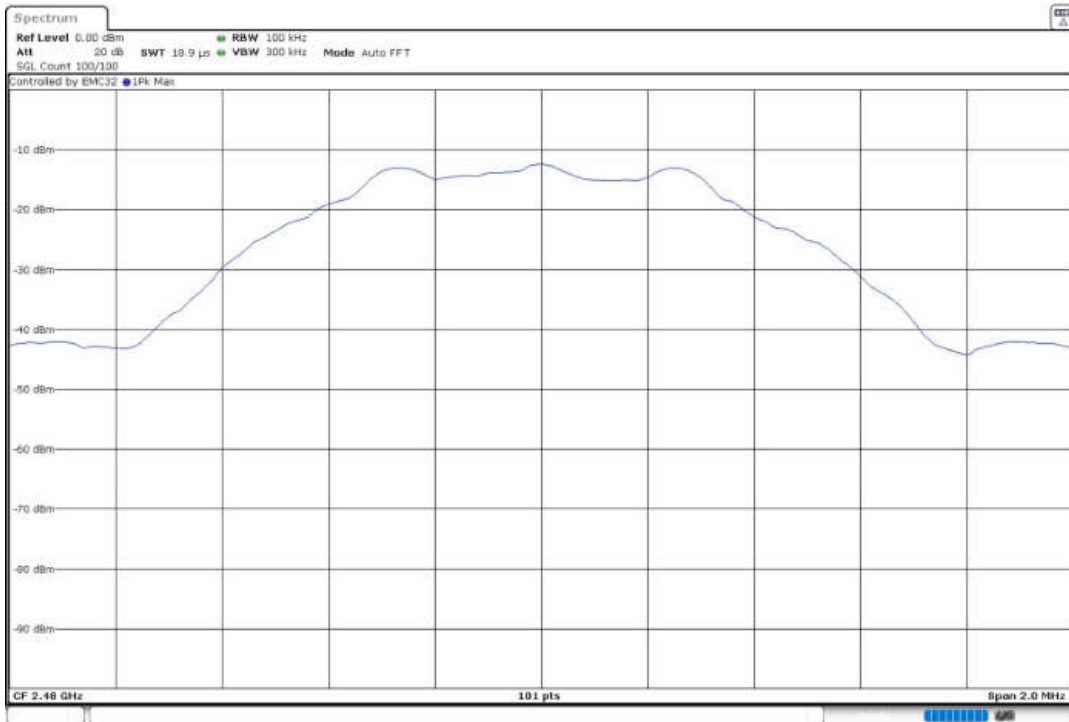
Images:

6 dB Bandwidth

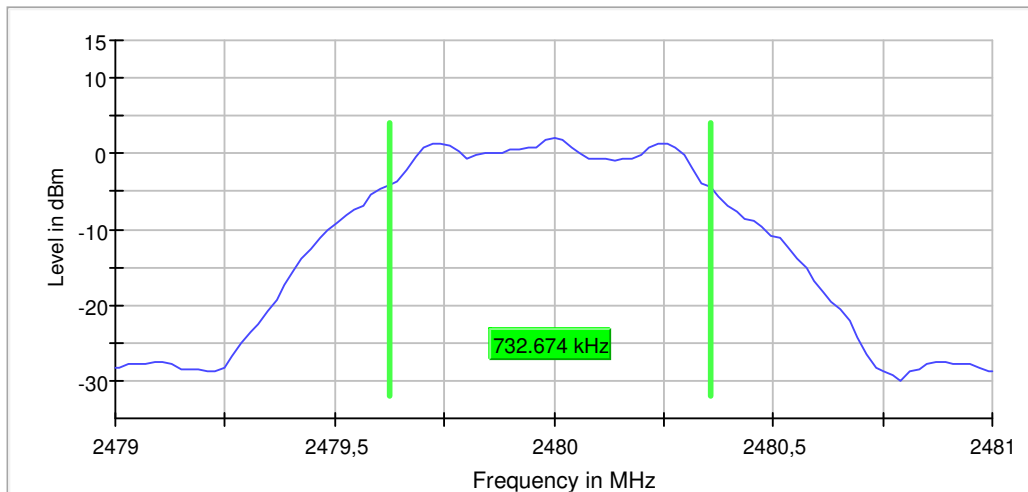


Frequency MHz = 2480.00000, Bandwidth MHz = 1, Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:



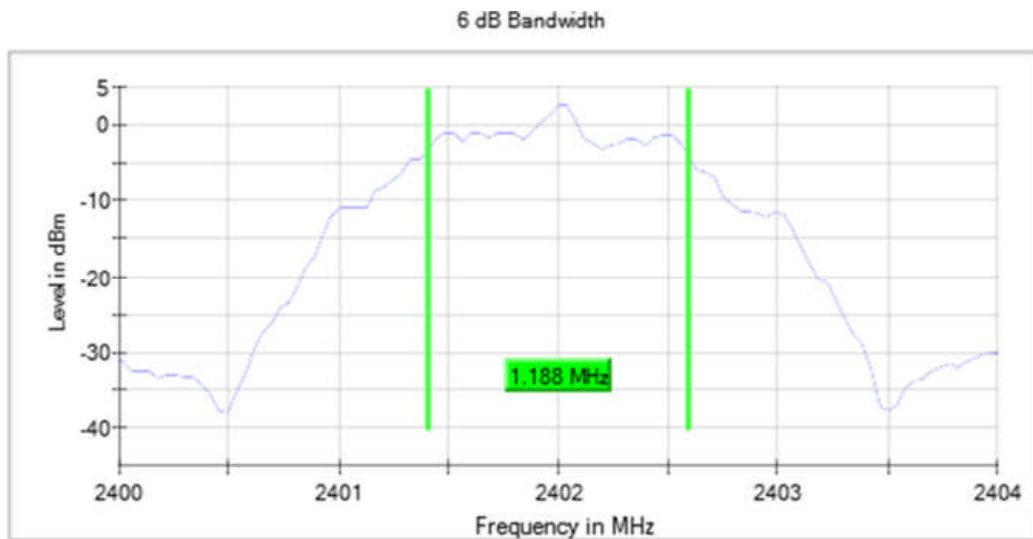
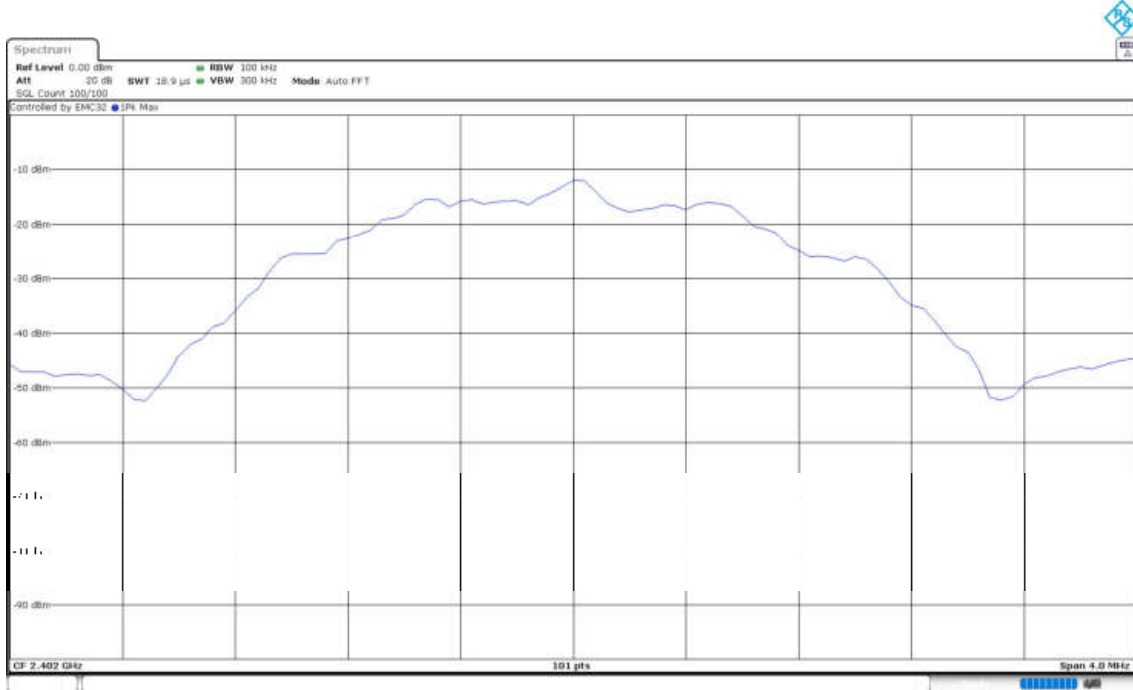
6 dB Bandwidth



Attachments

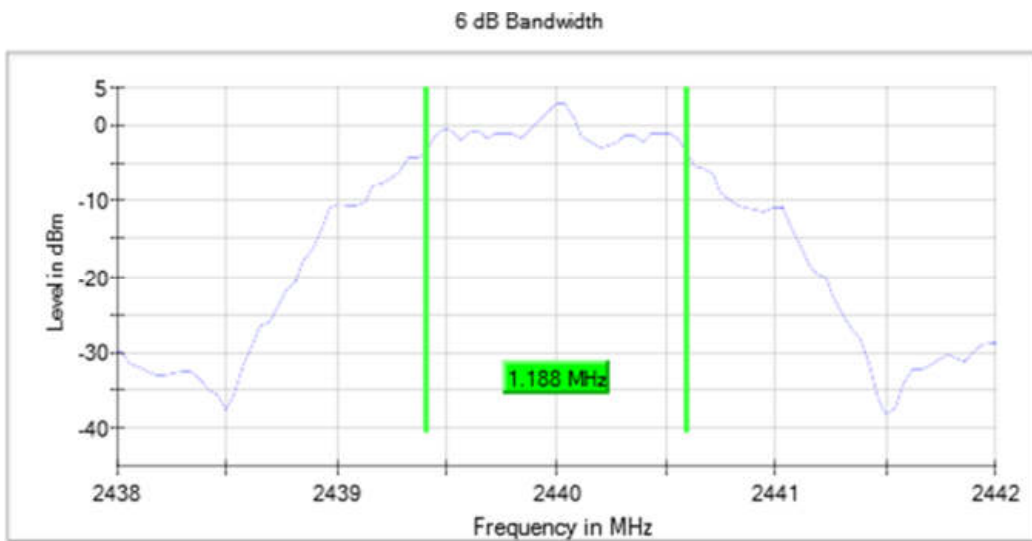
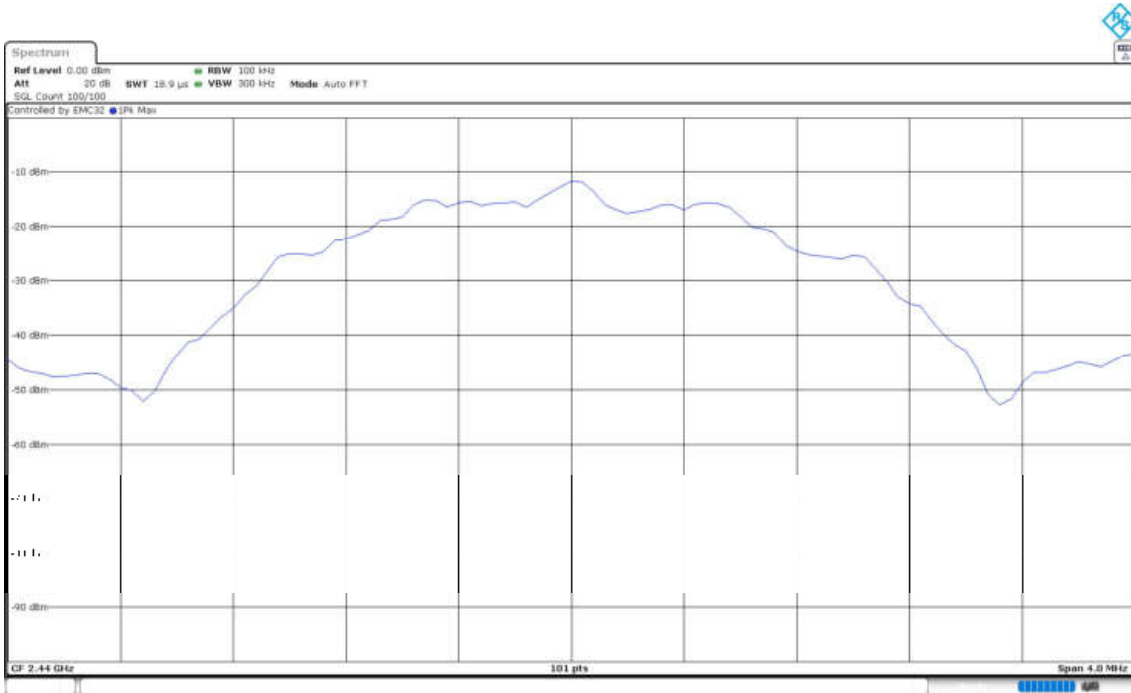
Frequency MHz = 2402.00000, Bandwidth MHz = 2, Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:



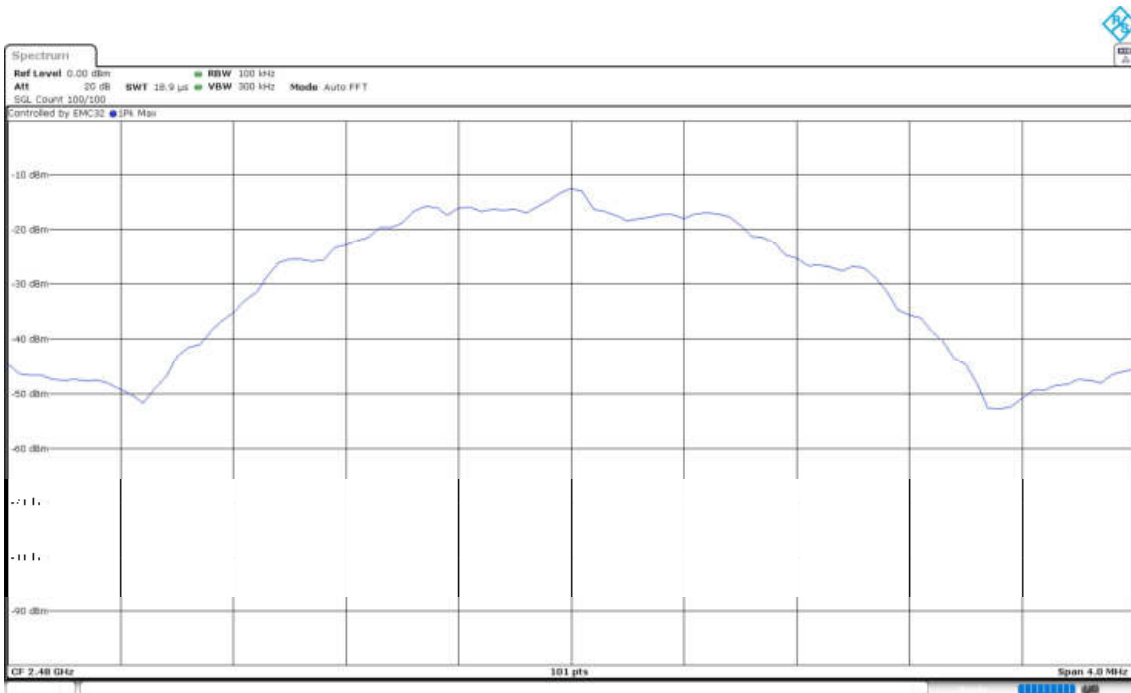
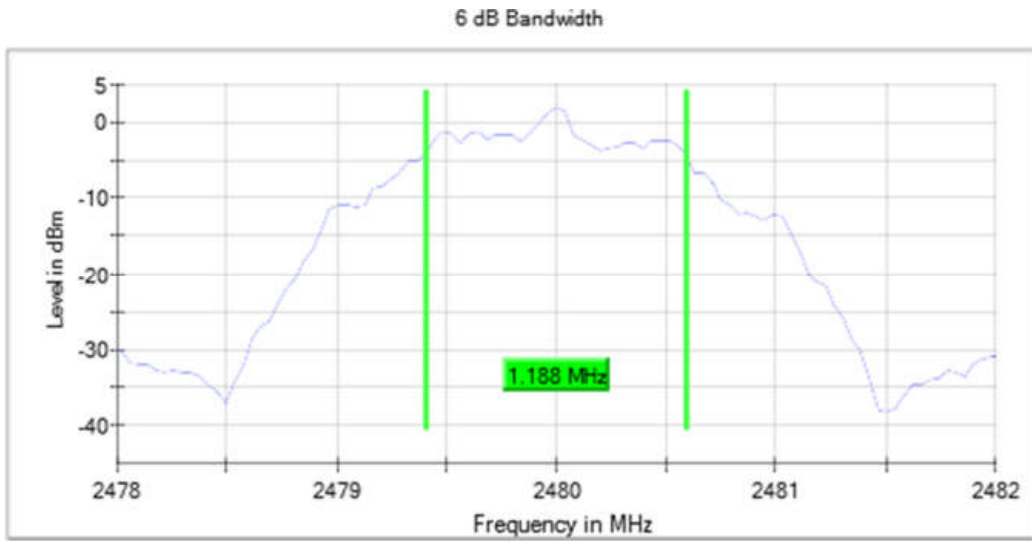
Frequency MHz = 2440.00000, Bandwidth MHz = 2, Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:



Frequency MHz = 2480.00000, Bandwidth MHz = 2, Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Number of Transmission Chains = 1, 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: BTLE 5.0 (GFSK 1 Mbit/s)

Results

Freq (MHz)	Equipment	BW (MHz)	# of Tx Chains	Port	PSD (dBm)
2402.00000	Digital Transmission System (DTS)	1	1	1	-7.126
2440.00000	Digital Transmission System (DTS)	1	1	1	-6.864
2480.00000	Digital Transmission System (DTS)	1	1	1	-7.597

Verdict

Pass

Modulation: BTLE 5.0 (GFSK 2 Mbit/s)

Results

Freq (MHz)	Equipment	BW (MHz)	# of Tx Chains	Port	PSD (dBm)
2402.00000	Digital Transmission System (DTS)	2	1	1	-8.45
2440.00000	Digital Transmission System (DTS)	2	1	1	-8.27
2480.00000	Digital Transmission System (DTS)	2	1	1	-8.08

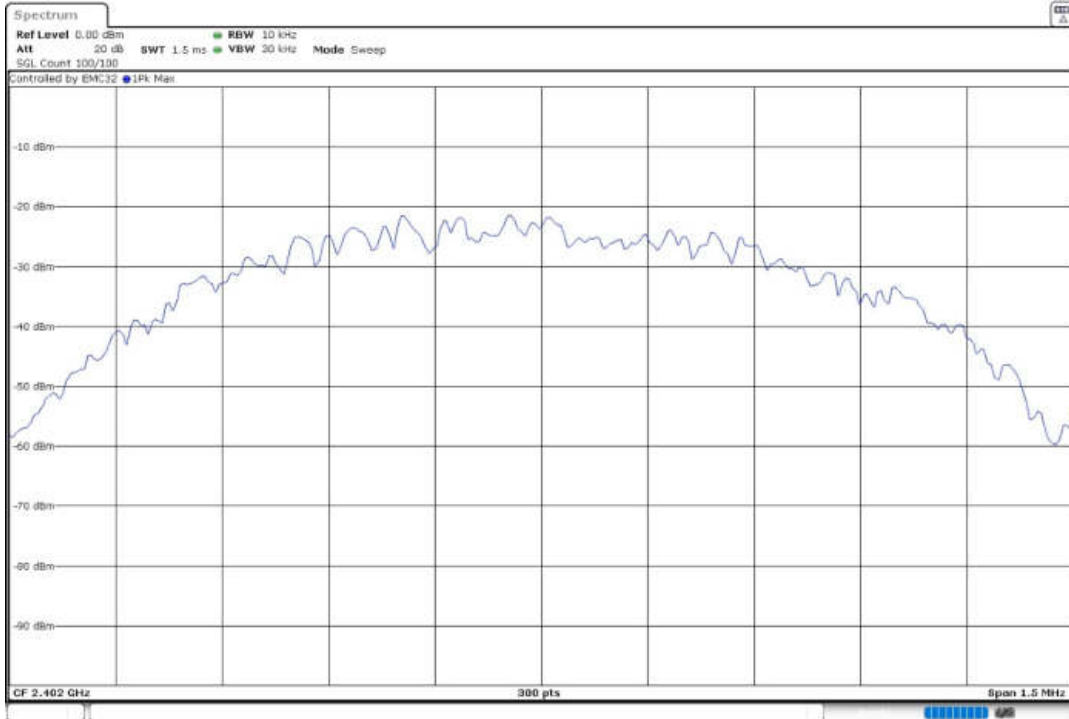
Verdict

Pass

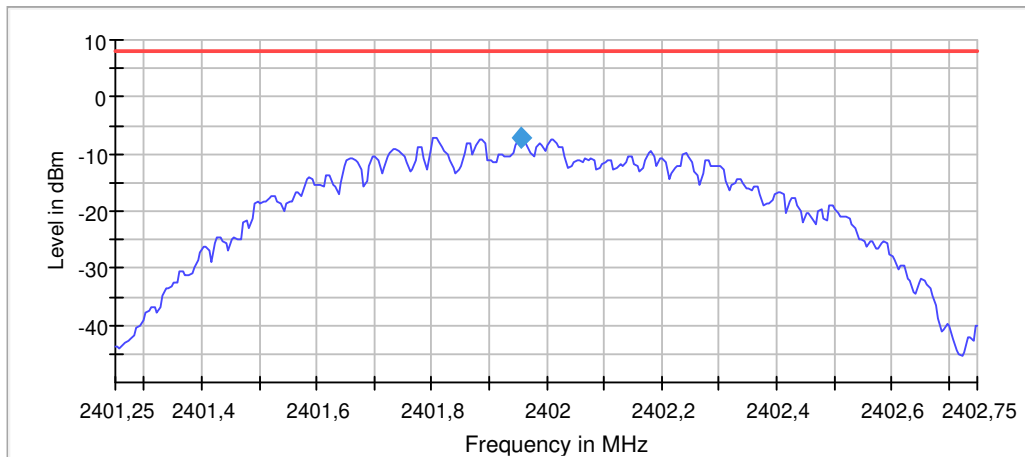
Attachments

Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 1, Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:



Peak Power Spectral Density

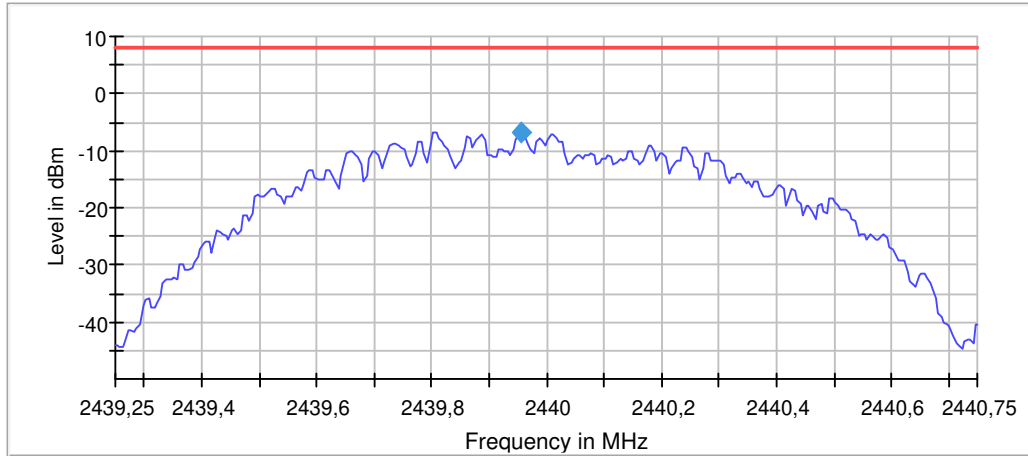


— Limit — Sum Level ◆ PSD

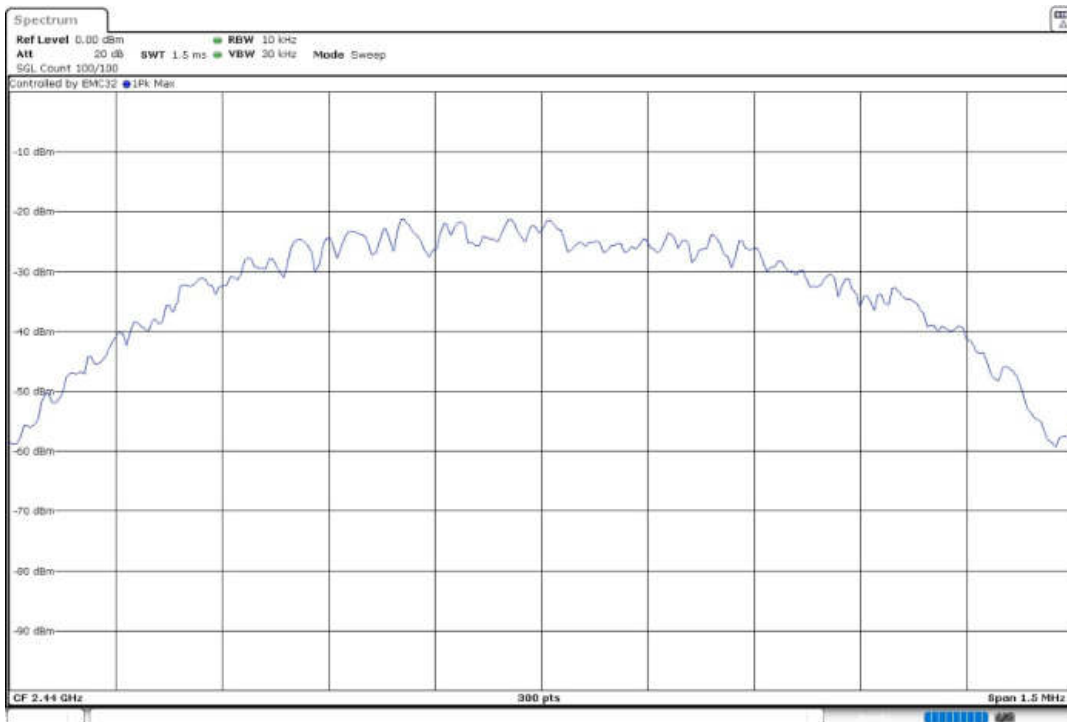
Frequency MHz = 2440.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 1,
Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:

Peak Power Spectral Density



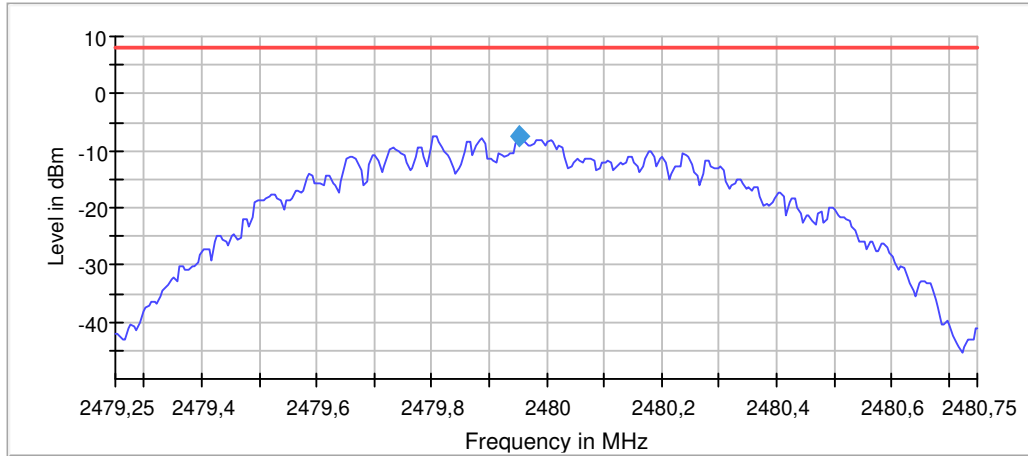
— Limit — Sum Level ◆ PSD



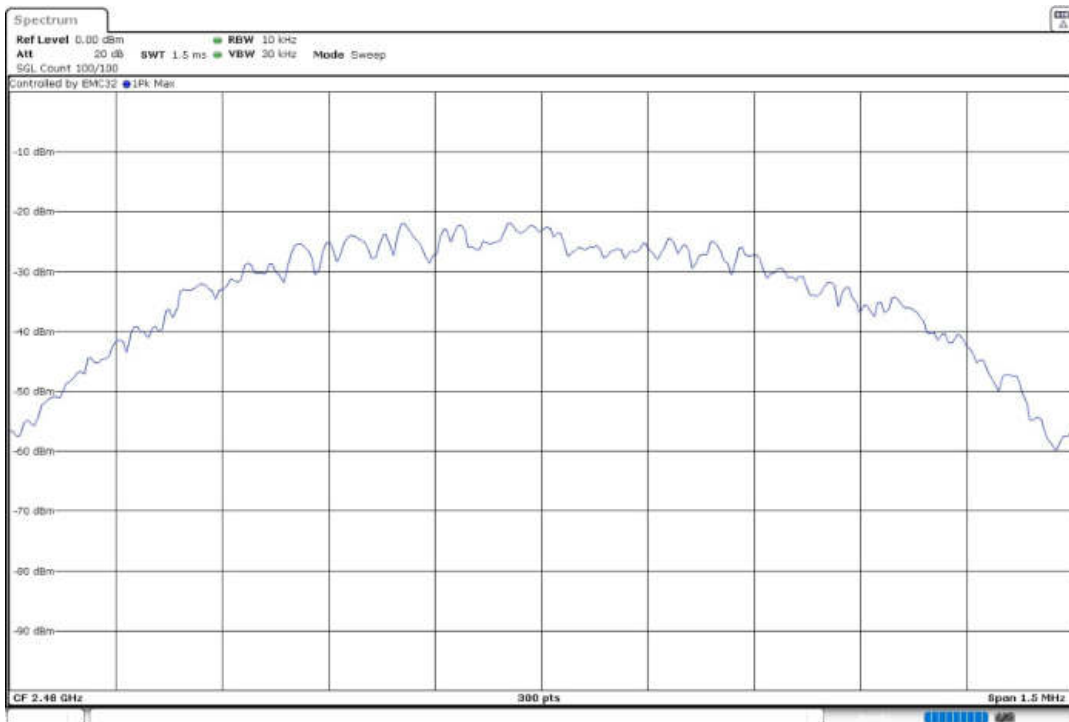
Frequency MHz = 2480.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 2,
Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:

Peak Power Spectral Density



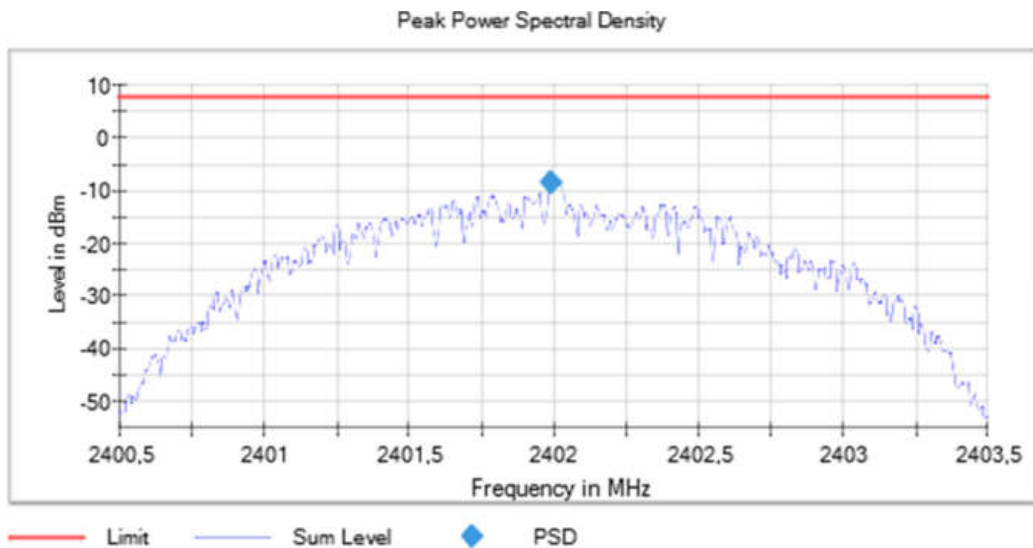
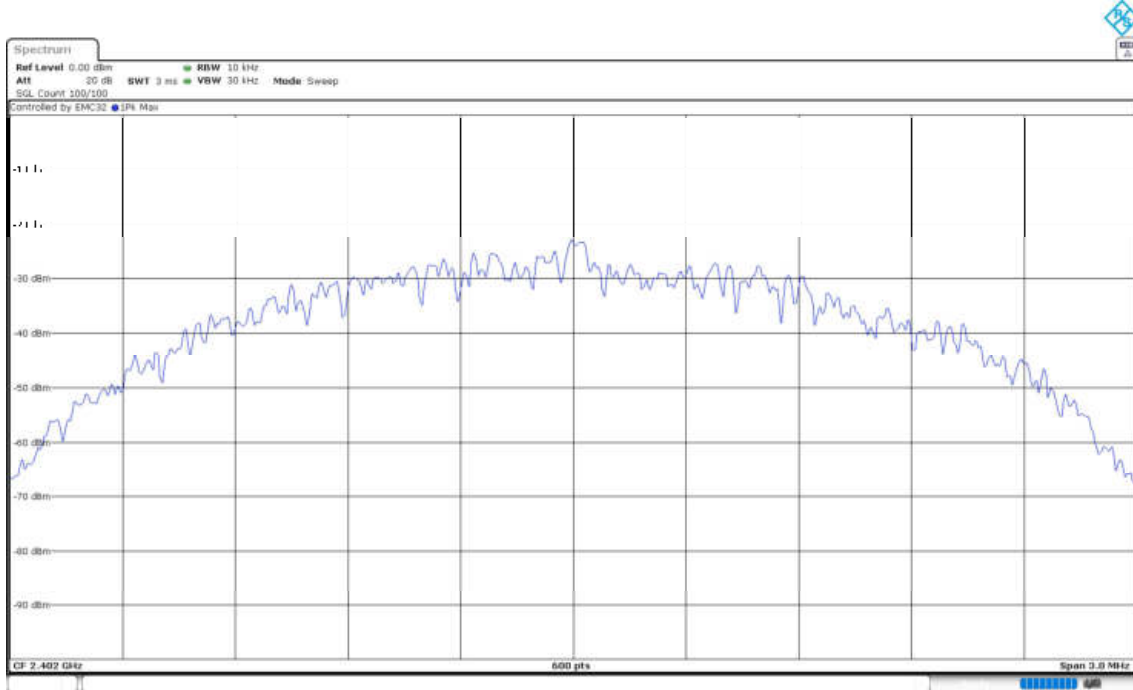
— Limit — Sum Level ◆ PSD



Attachments

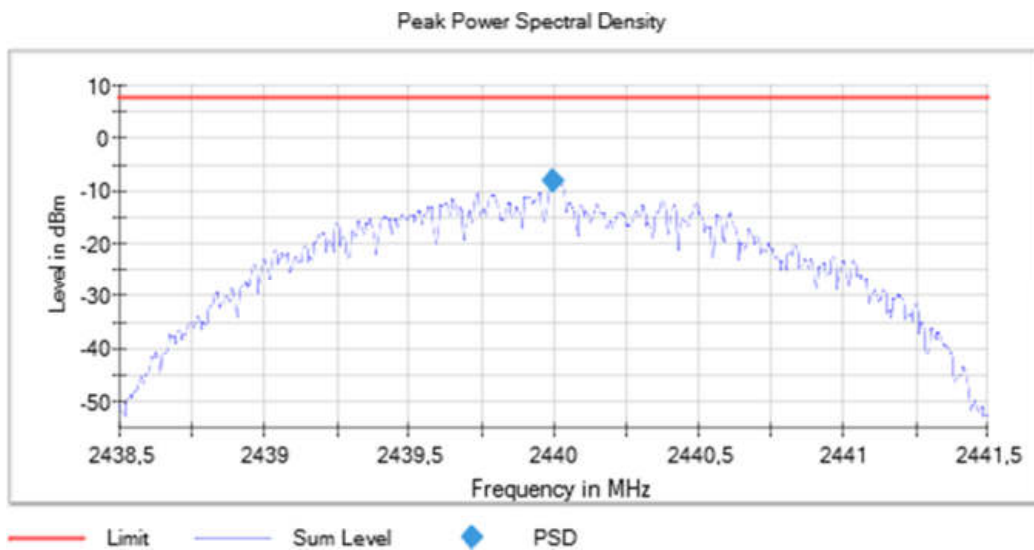
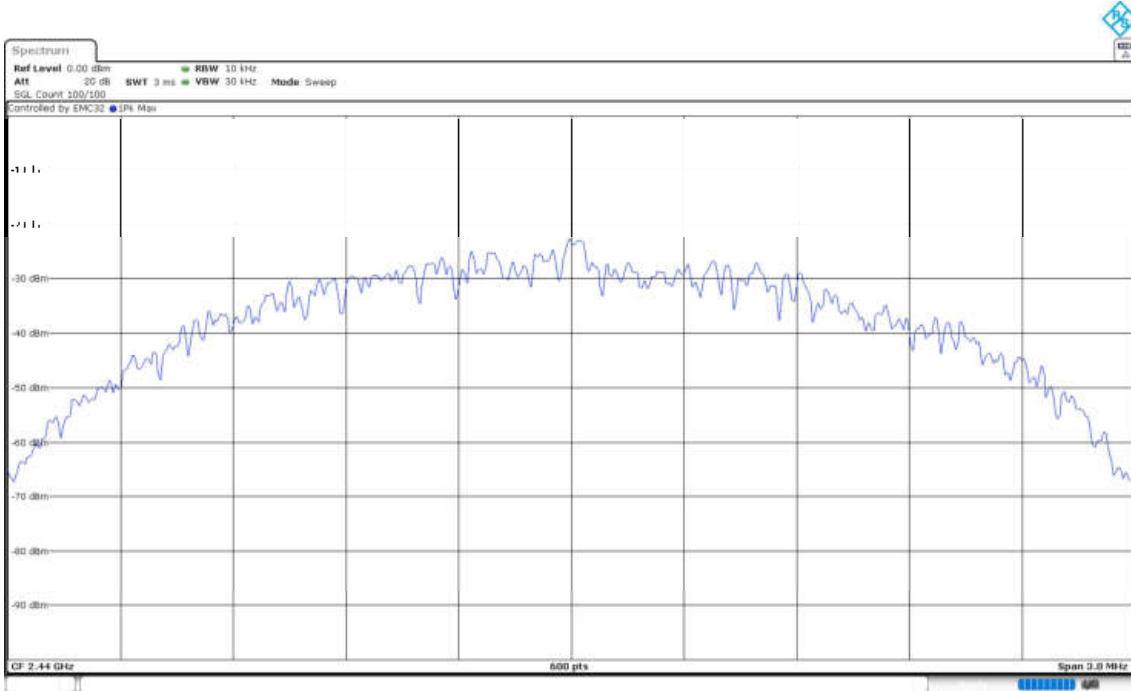
Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 2, Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:



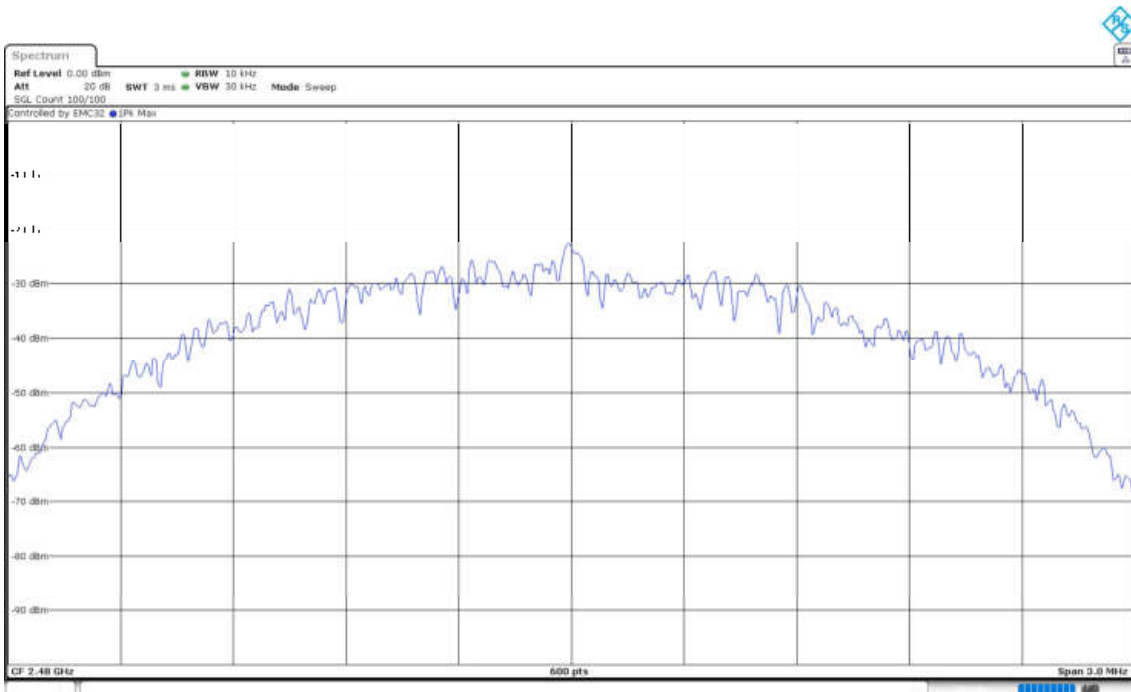
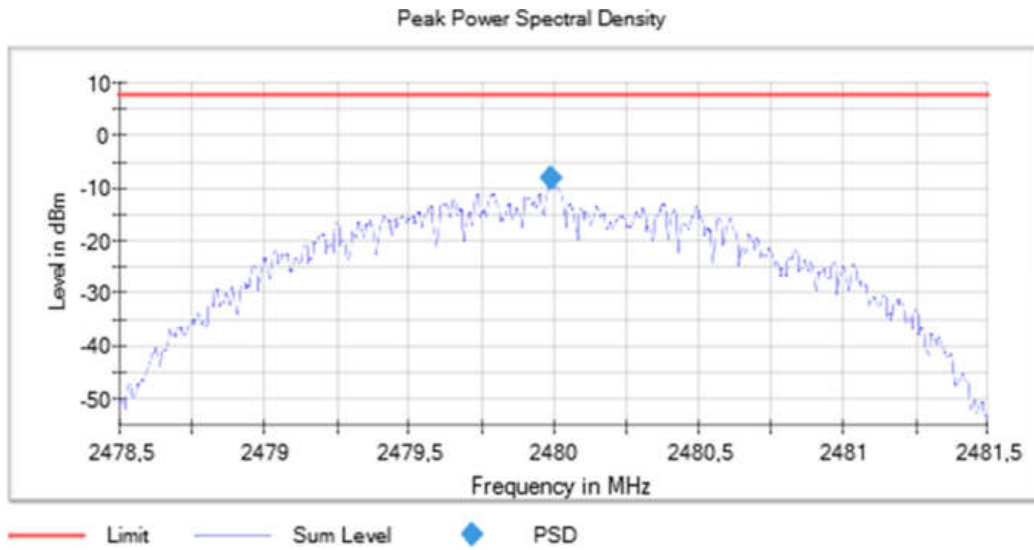
Frequency MHz = 2440.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 2,
Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:



Frequency MHz = 2480.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 2,
Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Number of Transmission Chains = 1, 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 maximum peak conducted output power level in the fundamental emission was measured using the method according to point 11.9.1.1 "RBW \geq DTS bandwidth" of ANSI C.63.10-2013.

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power.

Maximum Declared Antenna Gain: 1.3 dBi

Modulation: BTLE 5.0 (GFSK 1 Mbit/s)

Results

Freq (MHz)	Equipment	BW (MHz)	# of Tx Chains	Port	Peak Power (dBm)	EIRP power (dBm)
2402.00000	Digital Transmission System (DTS)	1	1	1	2.8	4.1
2440.00000	Digital Transmission System (DTS)	1	1	1	3.1	4.4
2480.00000	Digital Transmission System (DTS)	1	1	1	2.4	3.7

Verdict

Pass

Modulation: BTLE 5.0 (GFSK 2 Mbit/s)

Results

Freq (MHz)	Equipment	BW (MHz)	# of Tx Chains	Port	Peak Power (dBm)	EIRP power (dBm)
2402.00000	Digital Transmission System (DTS)	2	1	1	2.8	4.1
2440.00000	Digital Transmission System (DTS)	2	1	1	3.1	4.4
2480.00000	Digital Transmission System (DTS)	2	1	1	2.5	3.8

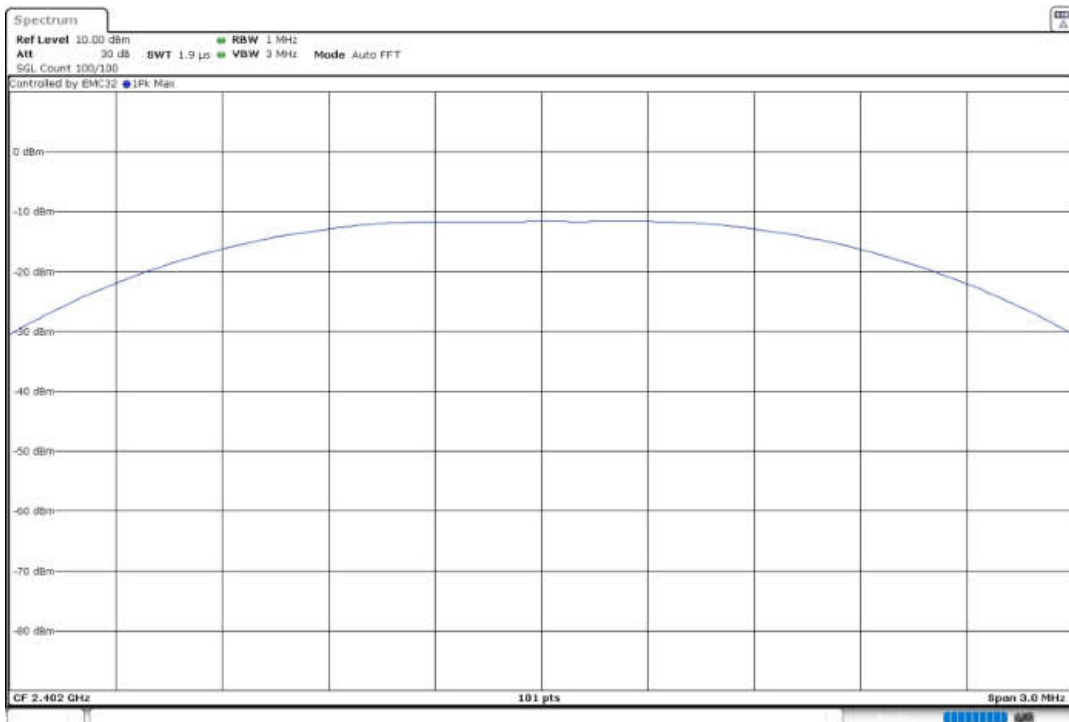
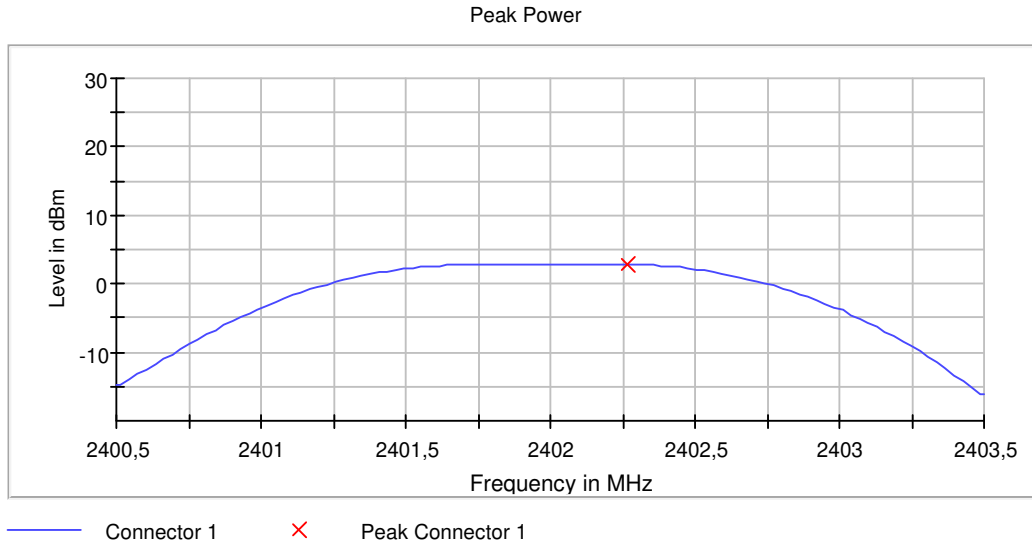
Verdict

Pass

Attachments

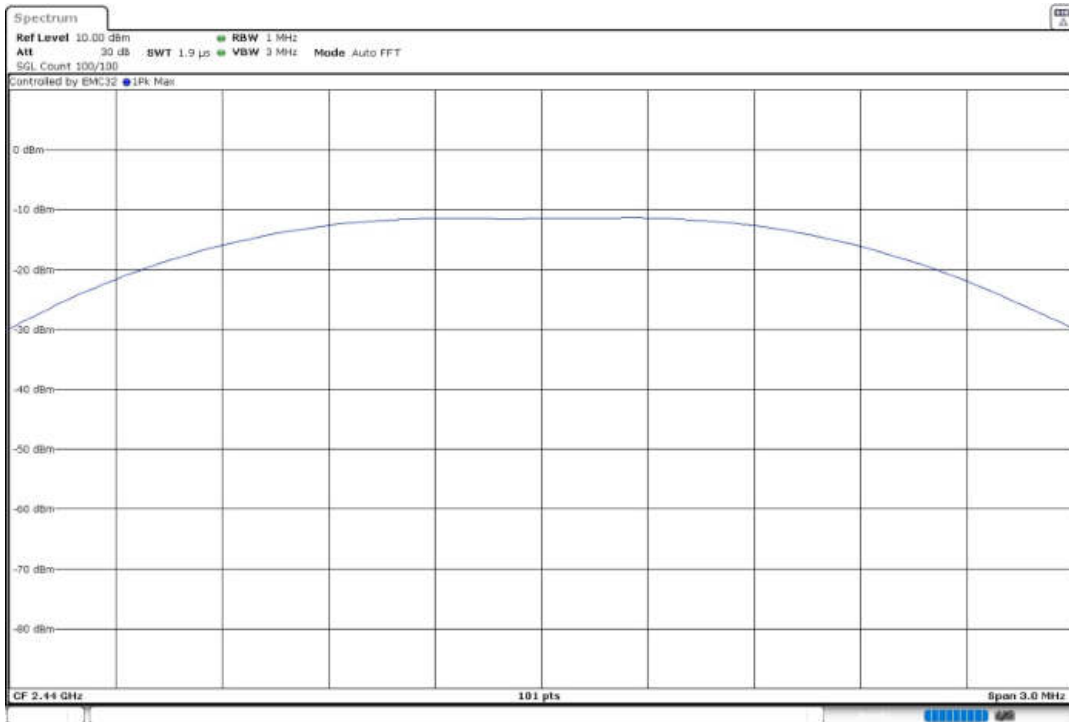
Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 1, Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:

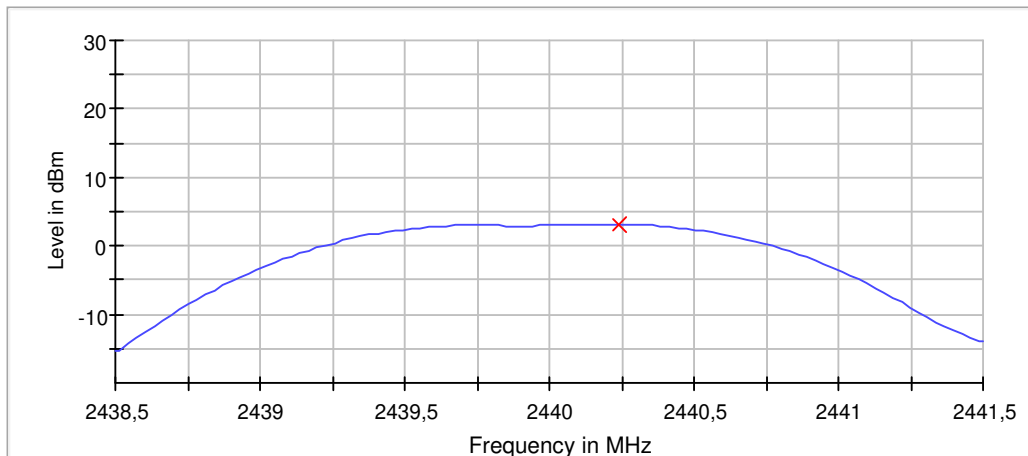


Frequency MHz = 2440.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 1,
 Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:



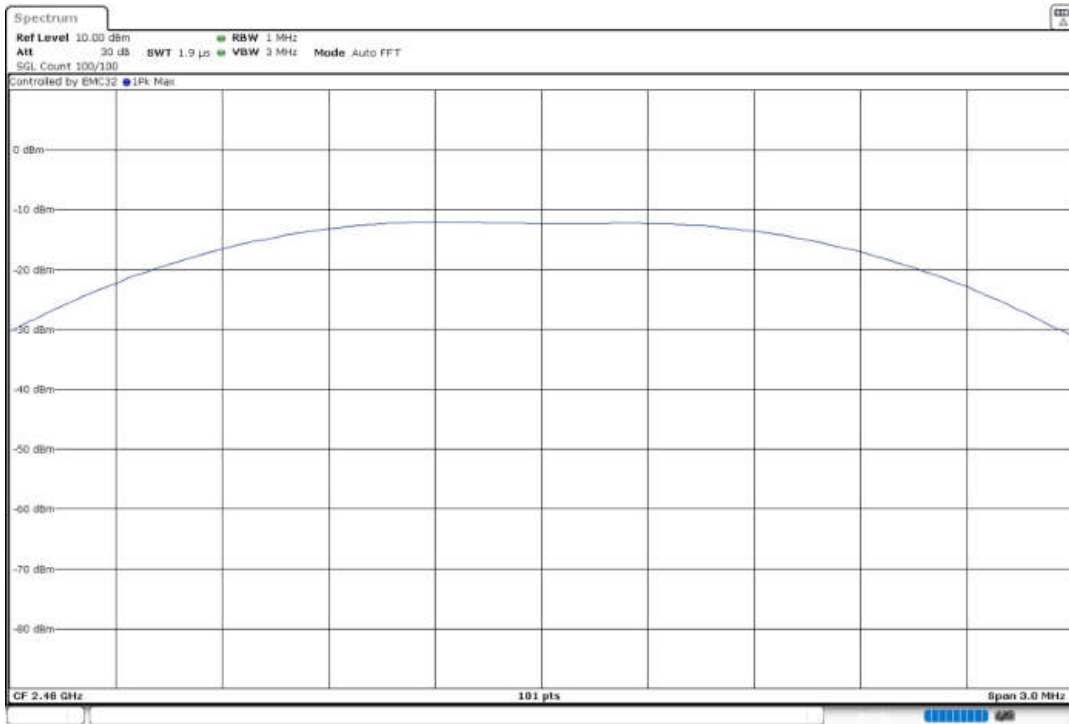
Peak Power



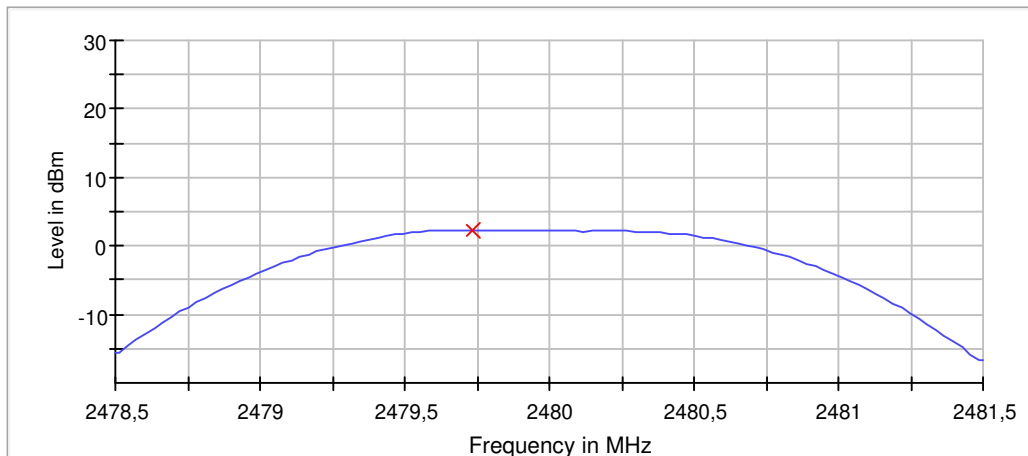
— Connector 1 × Peak Connector 1

Frequency MHz = 2480.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 1,
 Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:



Peak Power

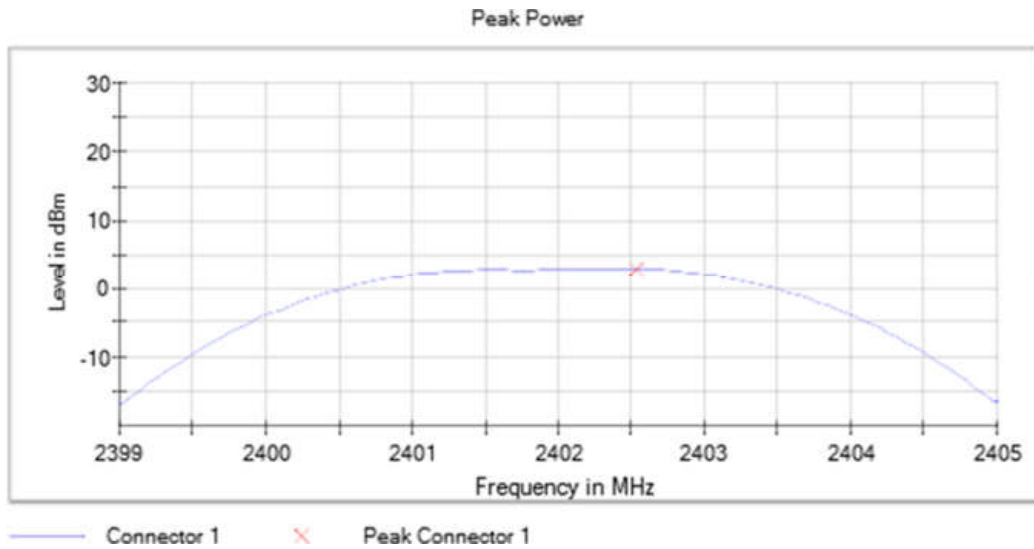
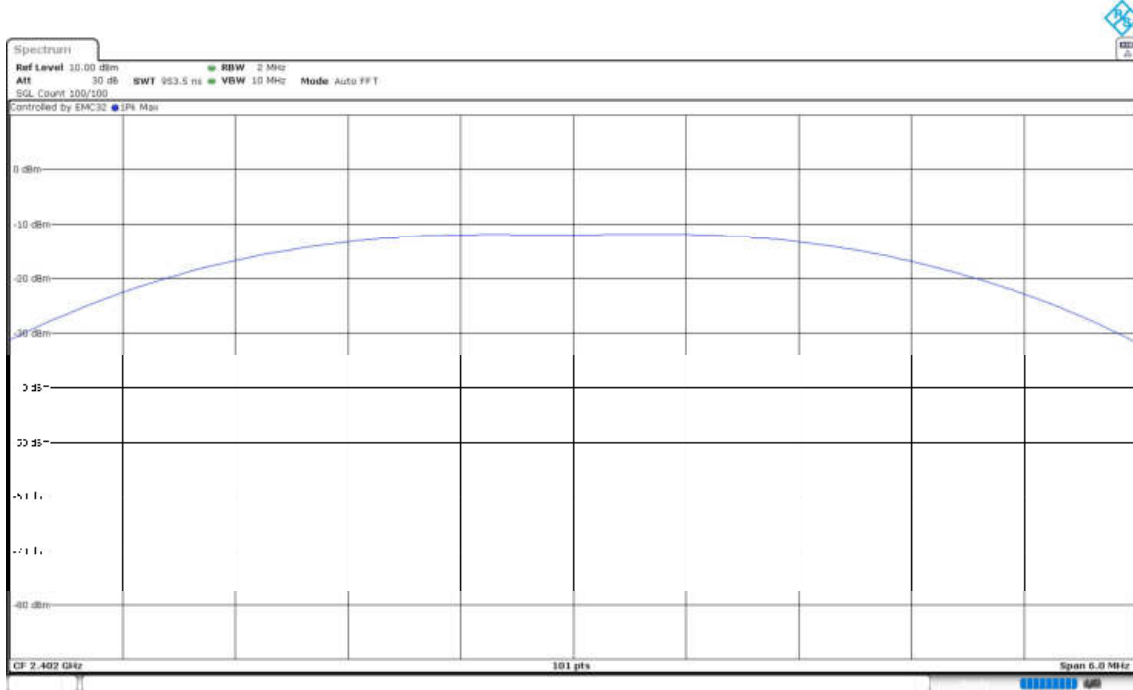


— Connector 1 × Peak Connector 1

Attachments

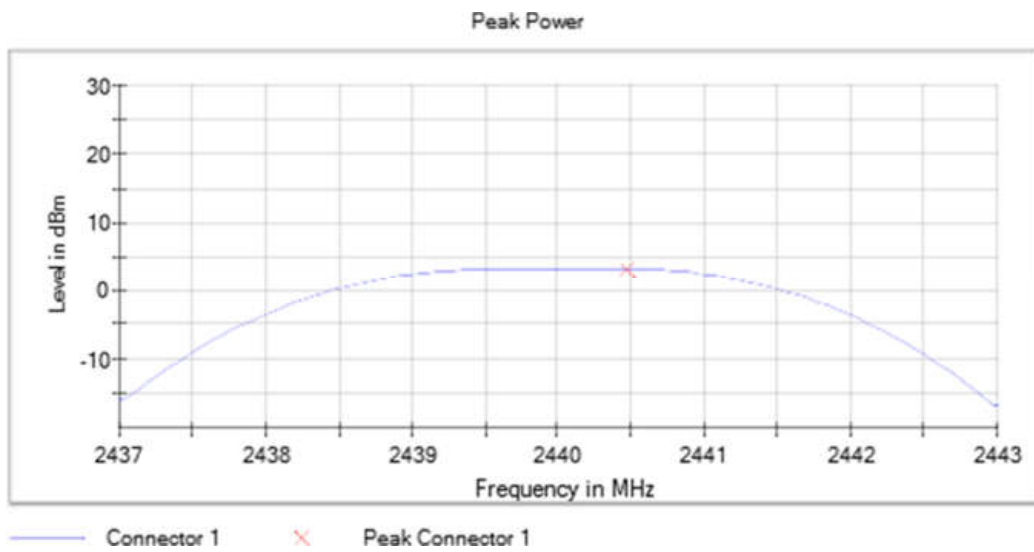
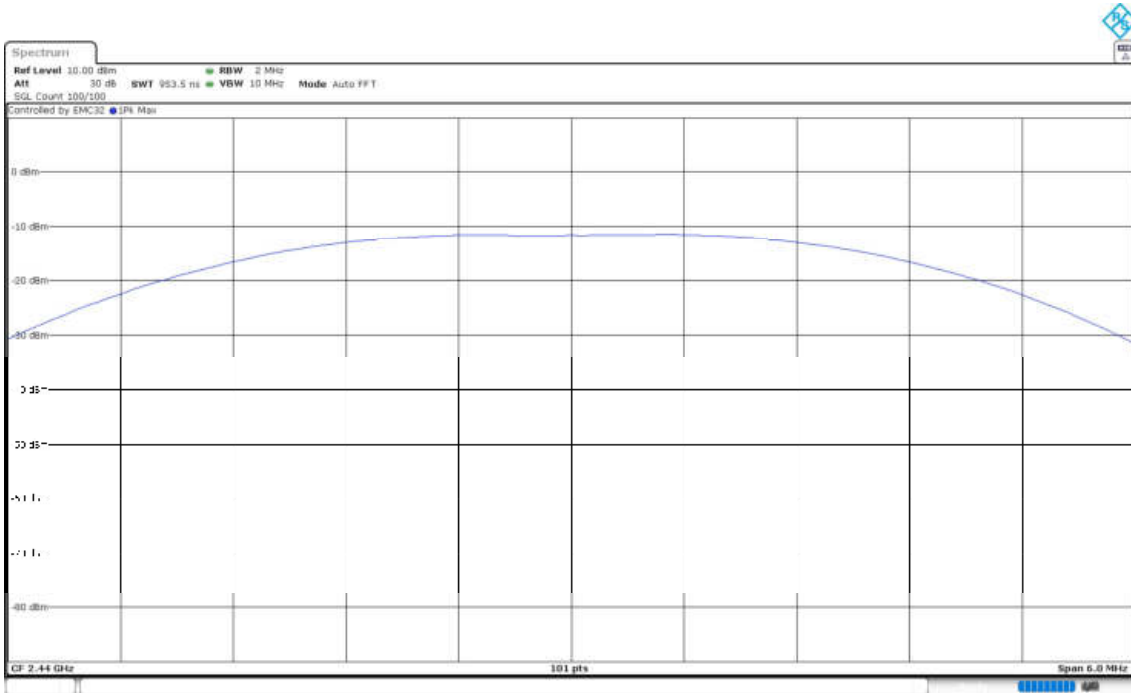
Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 2,
Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:



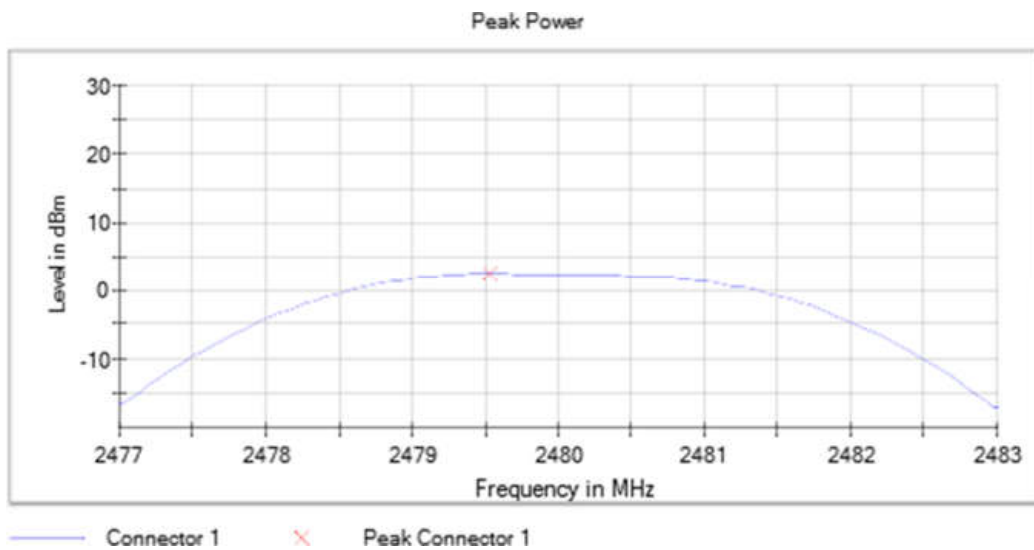
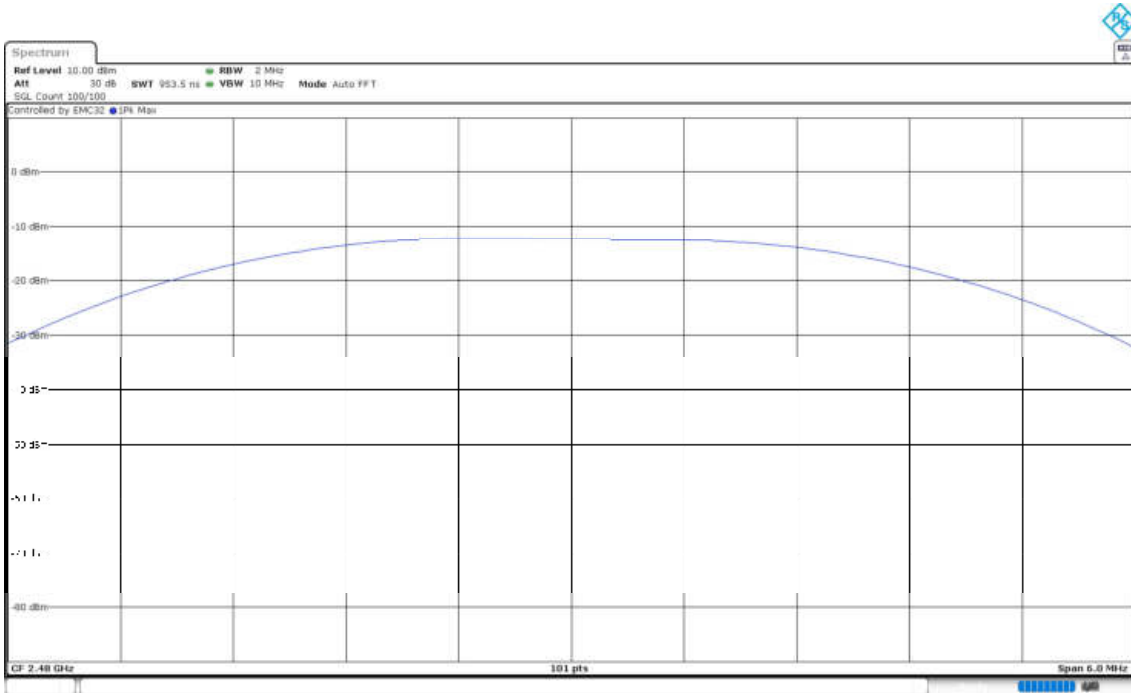
Frequency MHz = 2440.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 2,
Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Number of Transmission Chains = 1, Active Port = 1

Images:



Frequency MHz = 2480.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 2,
Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Number of Transmission Chains = 1, 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.

Operation Band: [2400, 2483.5]

Modulation: BTLE 5.0 (GFSK 1 Mbit/s)

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

Modulation: BTLE 5.0 (GFSK 2 Mbit/s)

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

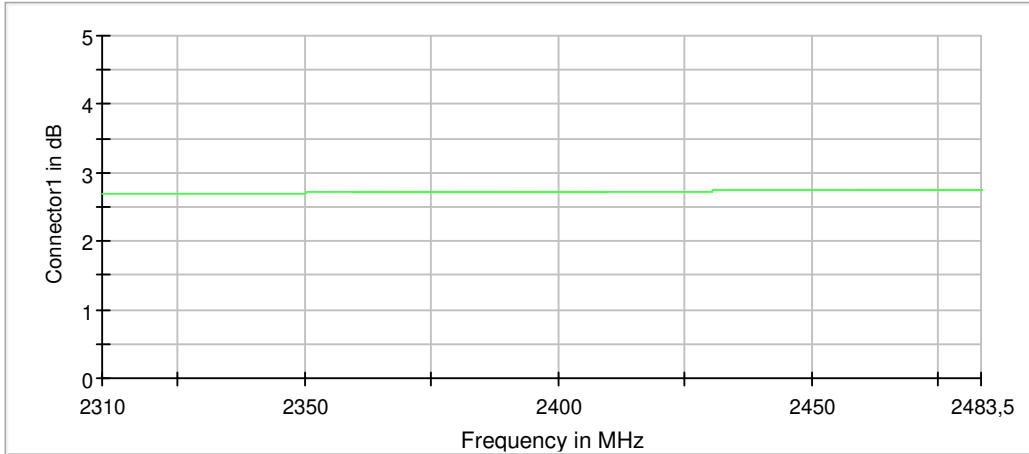
Pass

Attachments

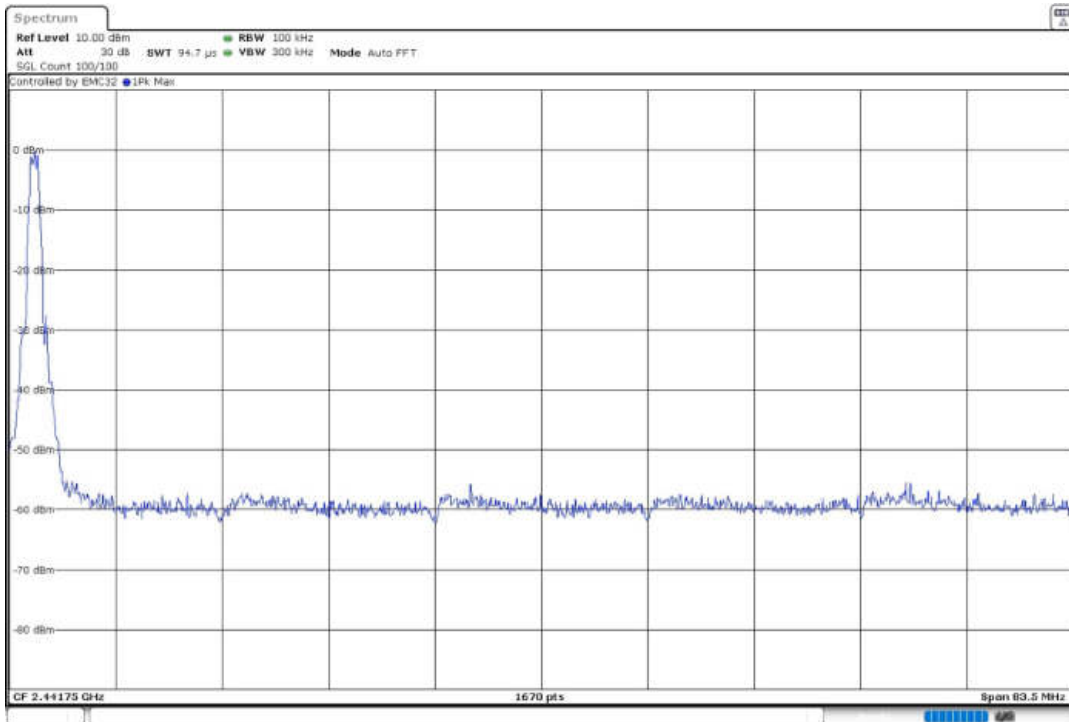
Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 1, Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Number of Transmission Chains = 1, Measurement Point = 1, Active Port = 1

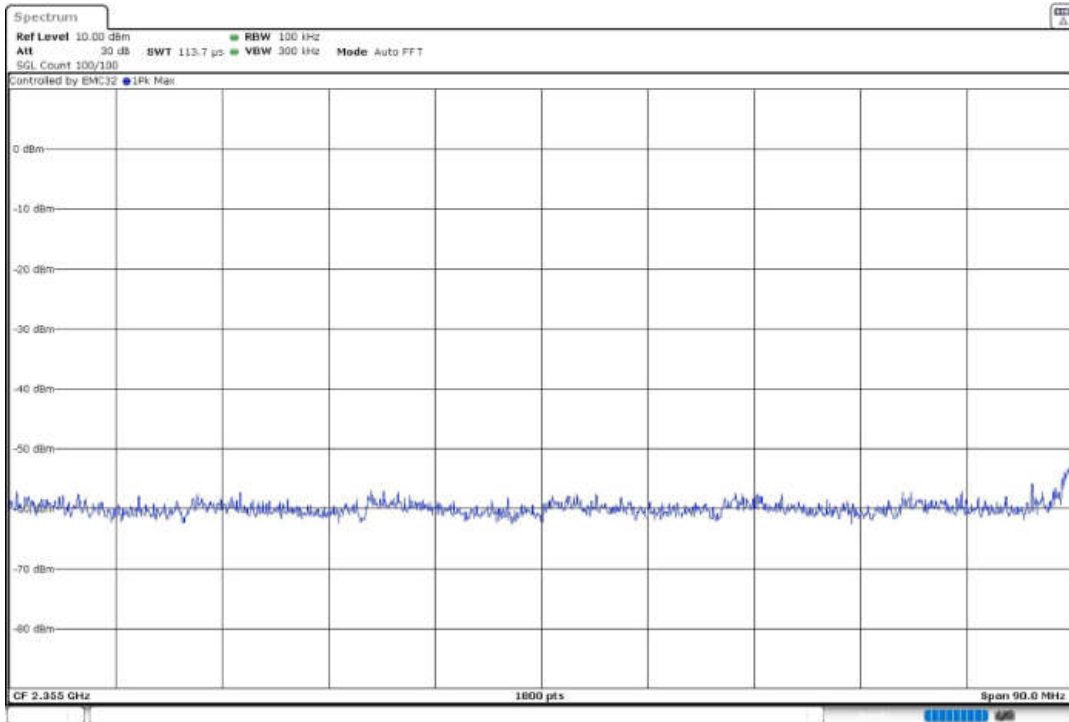
Images:

Attenuation

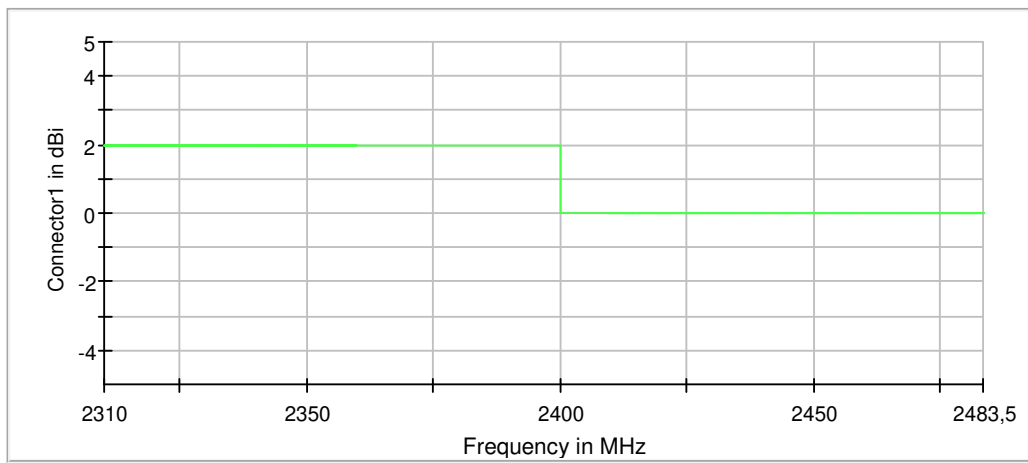


Connector1



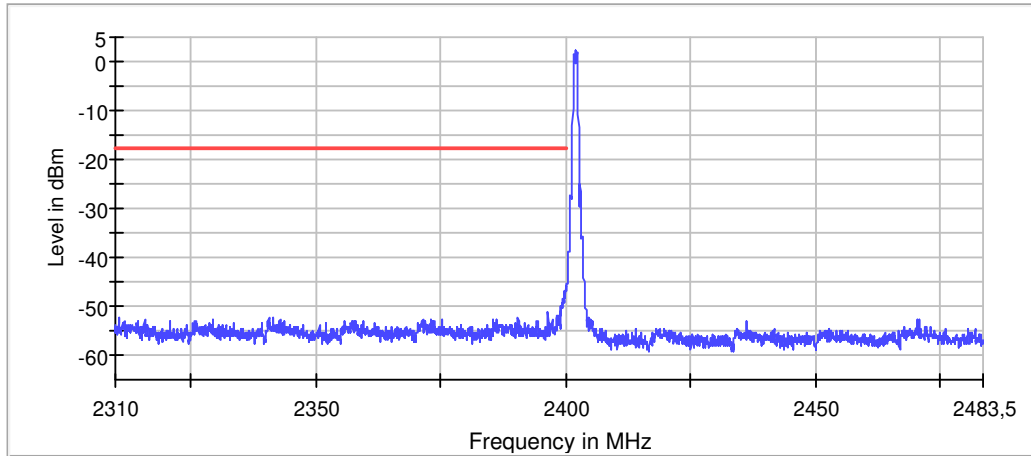


Gain



Connector1

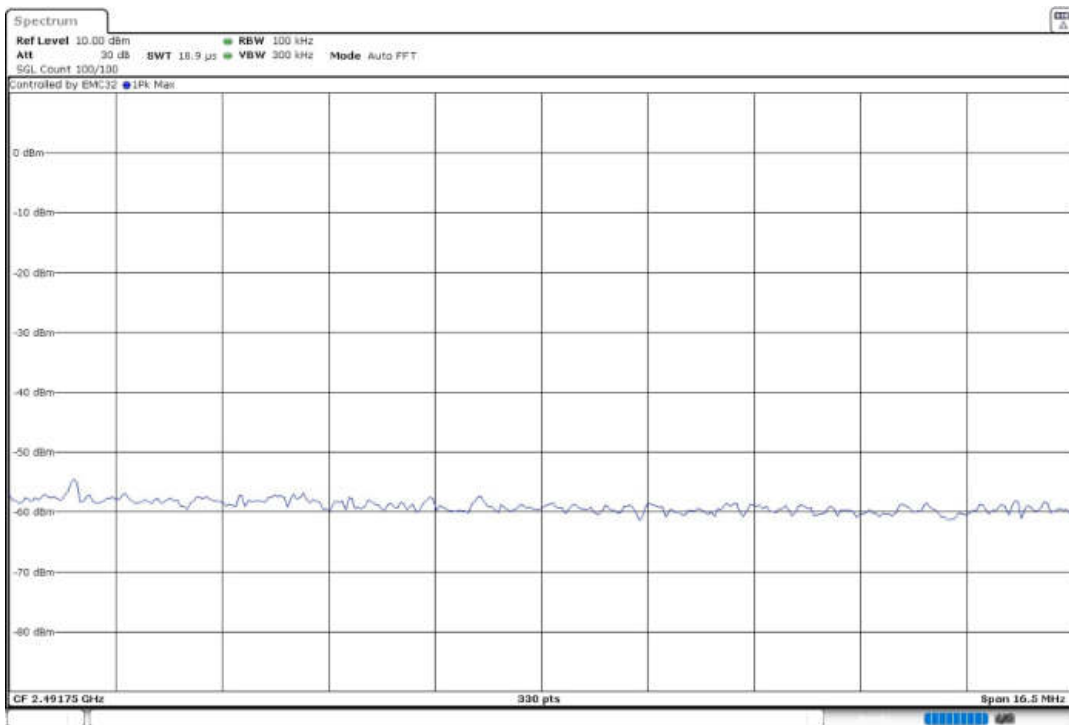
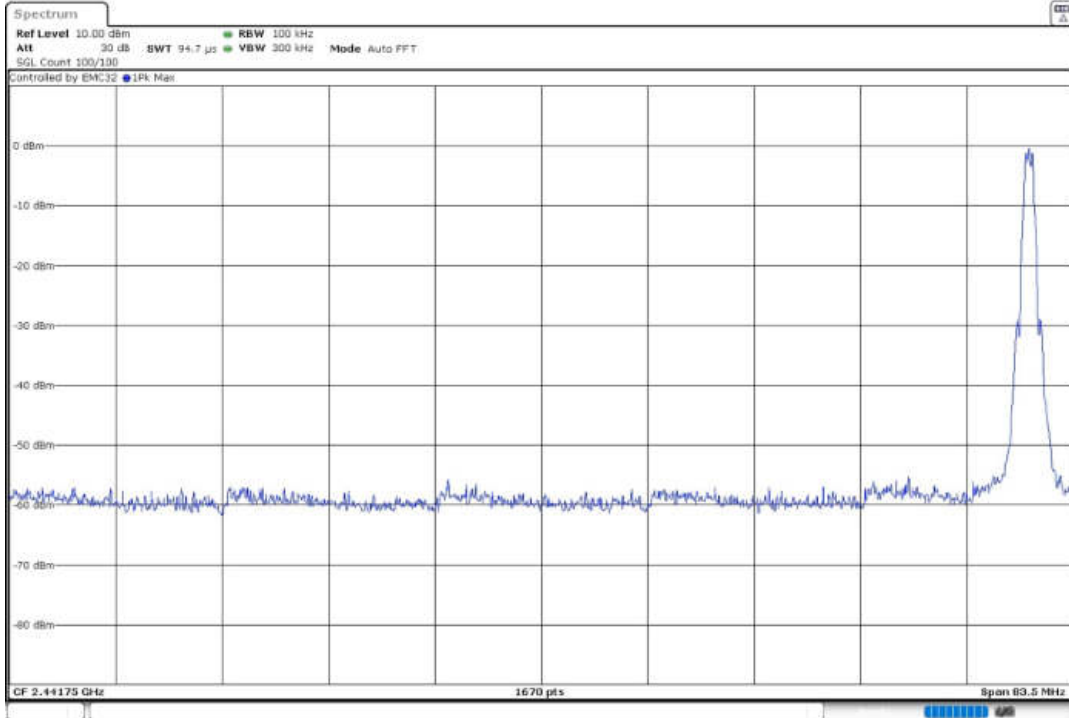
Band Edge



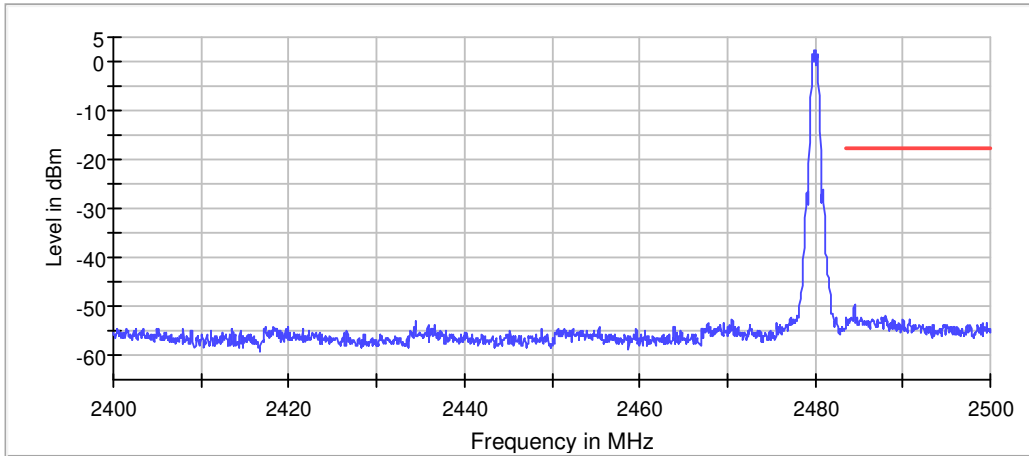
— Limit — Sum Level × Fail

Frequency MHz = 2480.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 1, Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Number of Transmission Chains = 1, Measurement Point = 1, Active Port = 1

Images:

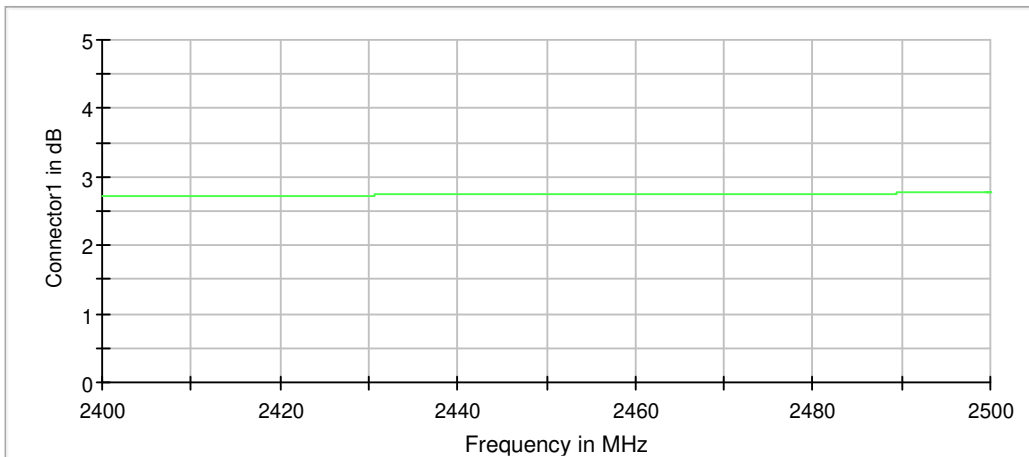


Band Edge



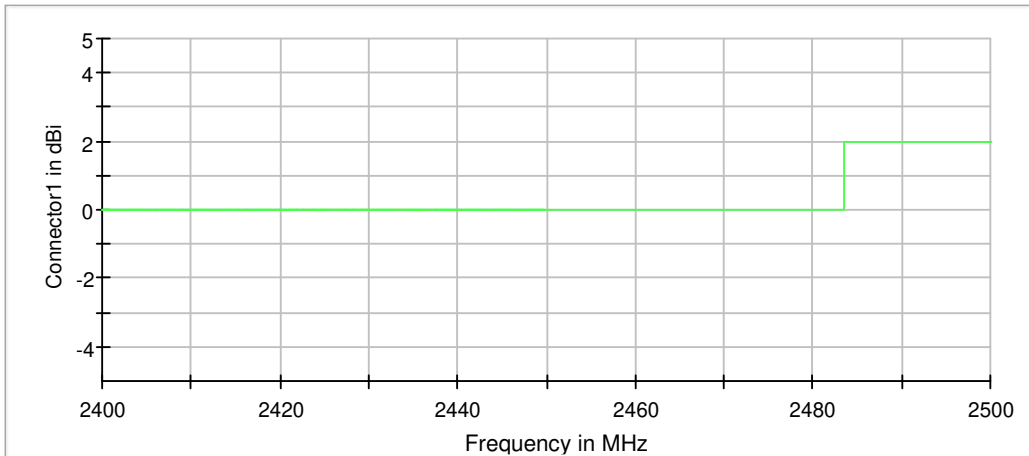
— Limit — Sum Level × Fail

Attenuation



— Connector1

Gain

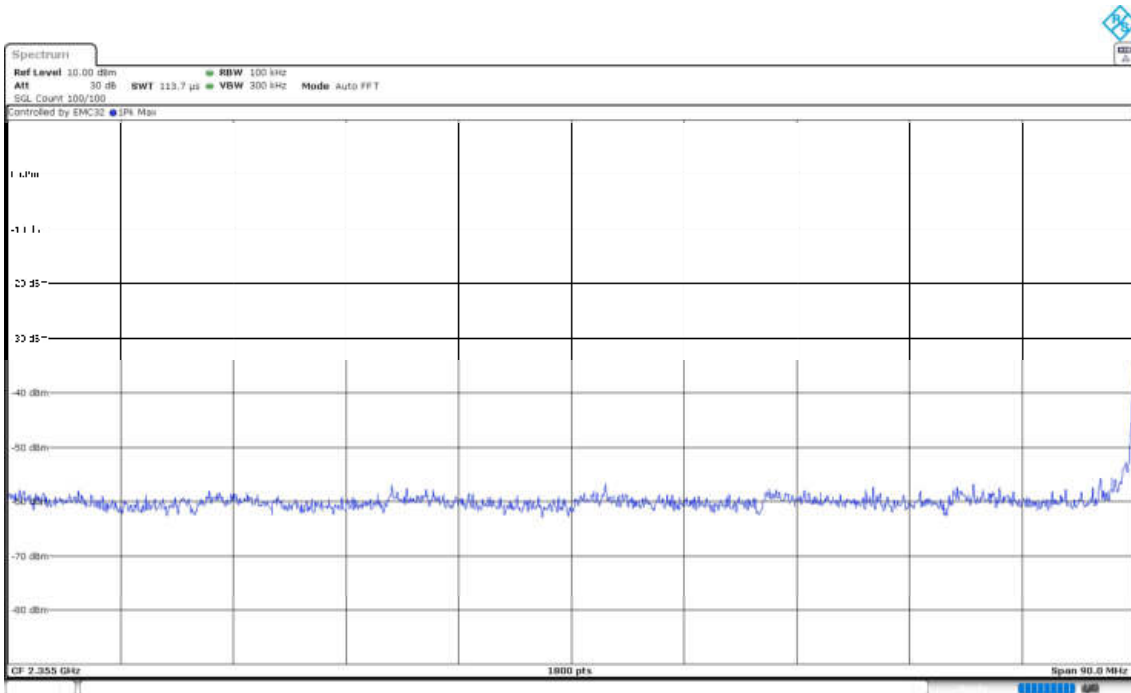
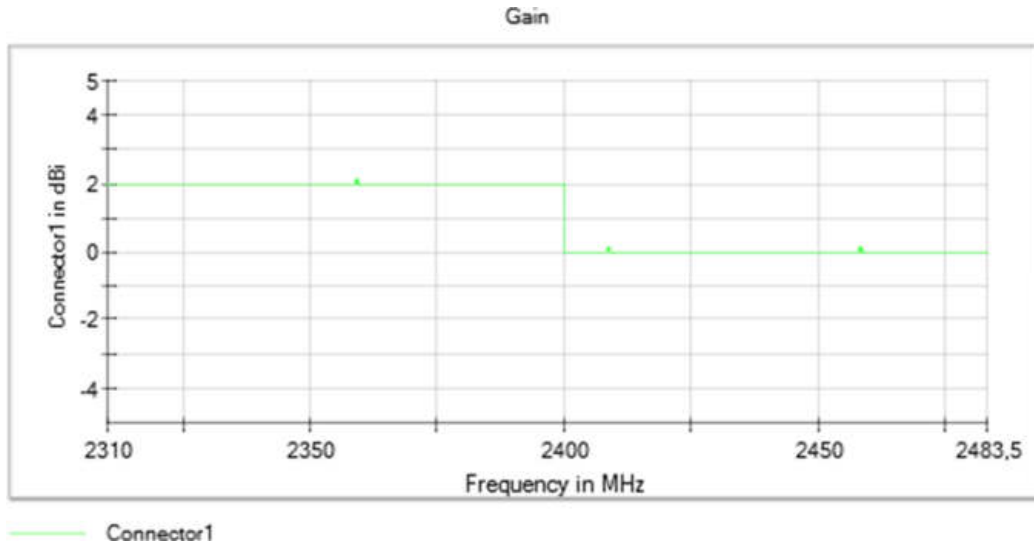


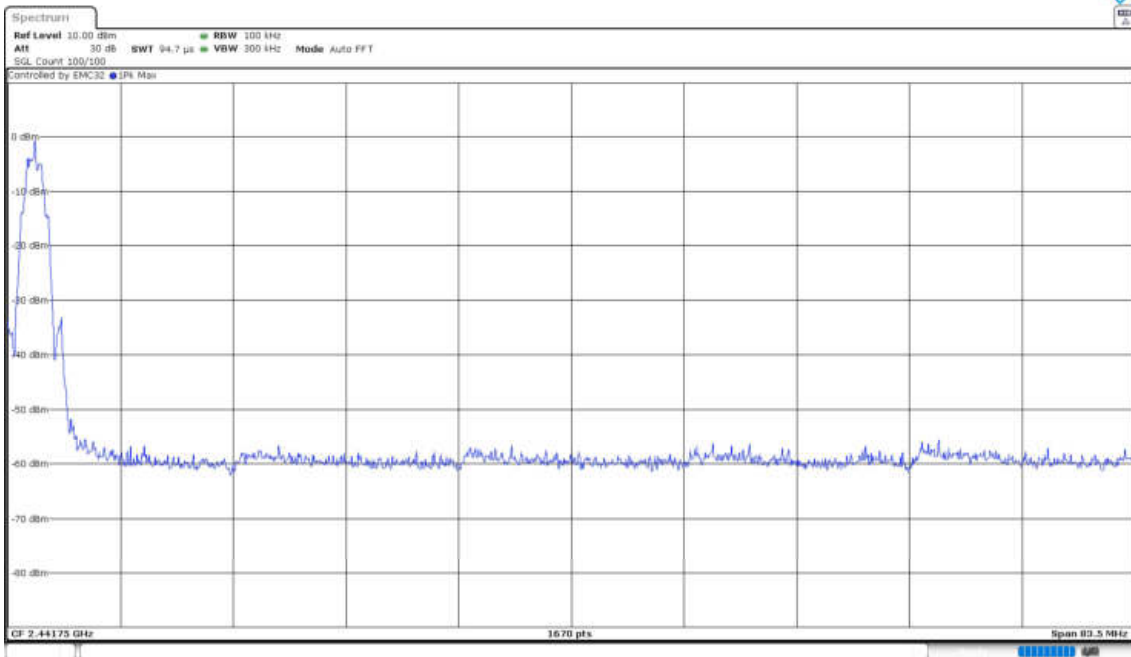
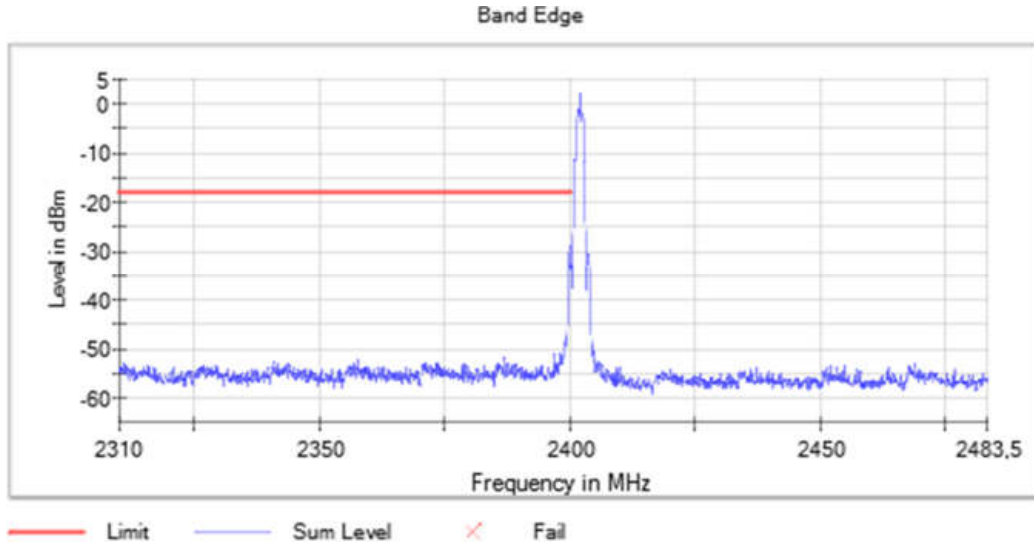
— Connector1

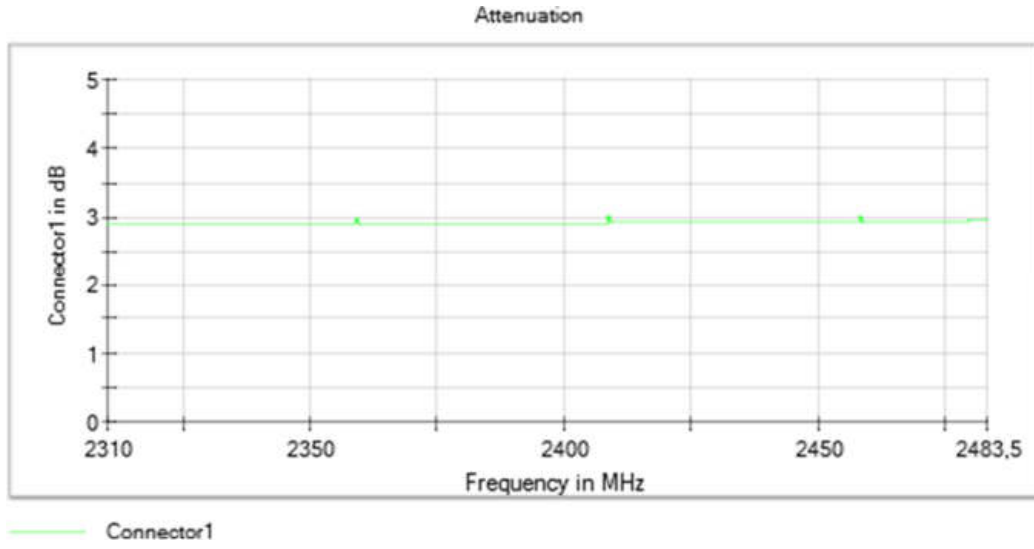
Attachments

Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 2, Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Number of Transmission Chains = 1, Measurement Point = 1, Active Port = 1

Images:

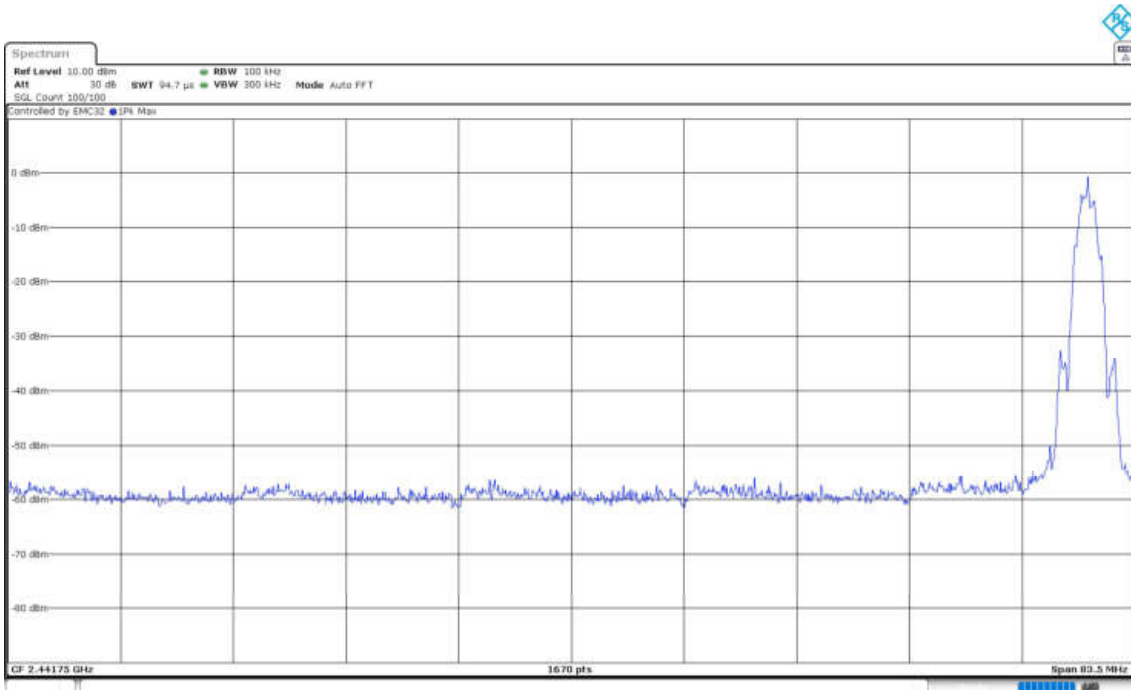
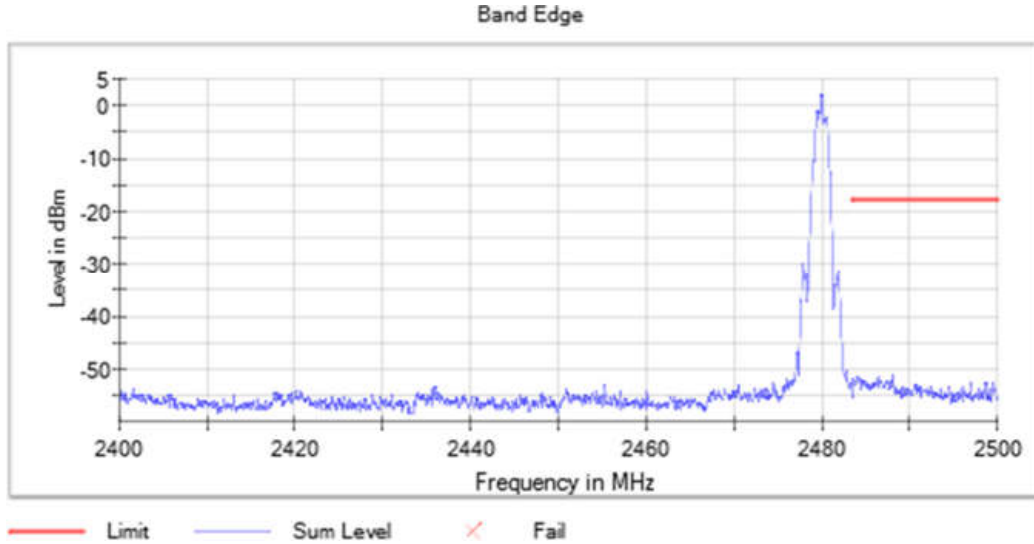


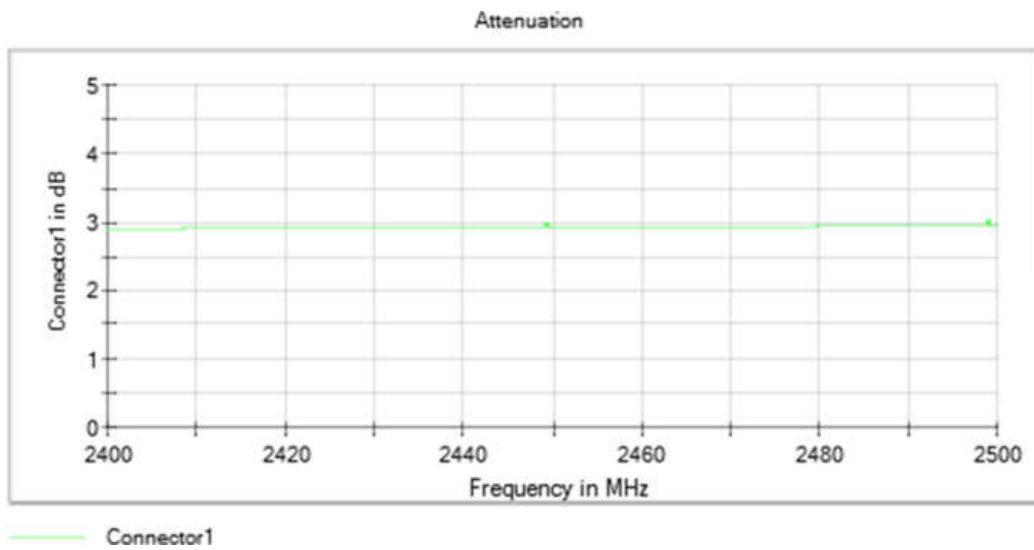
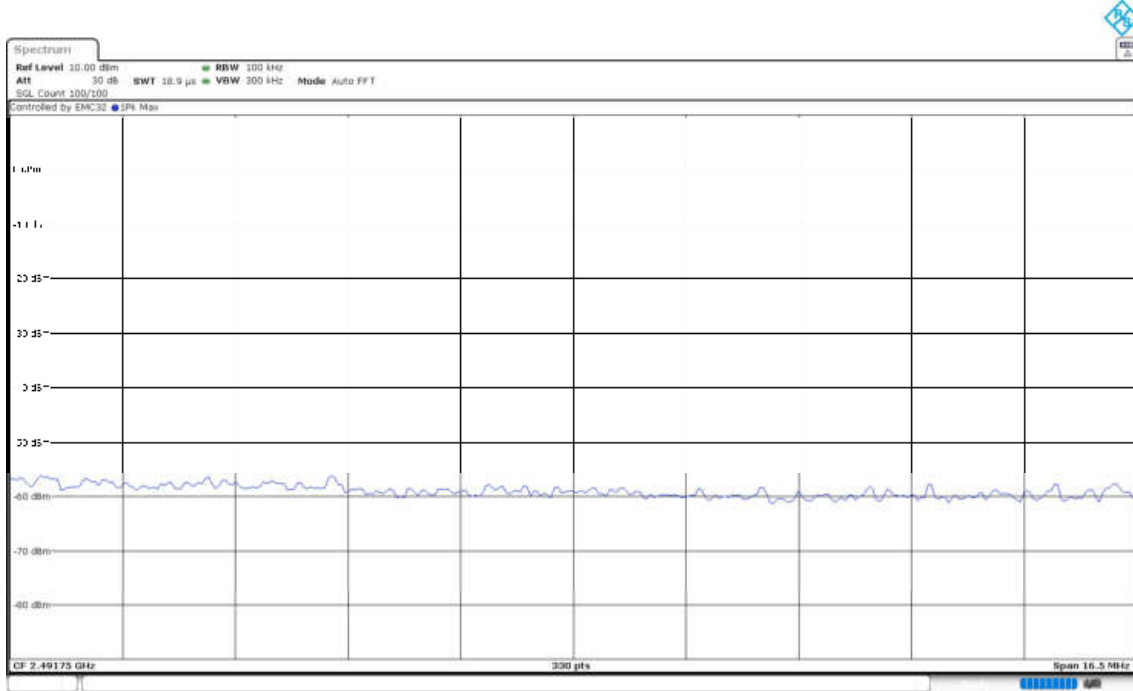


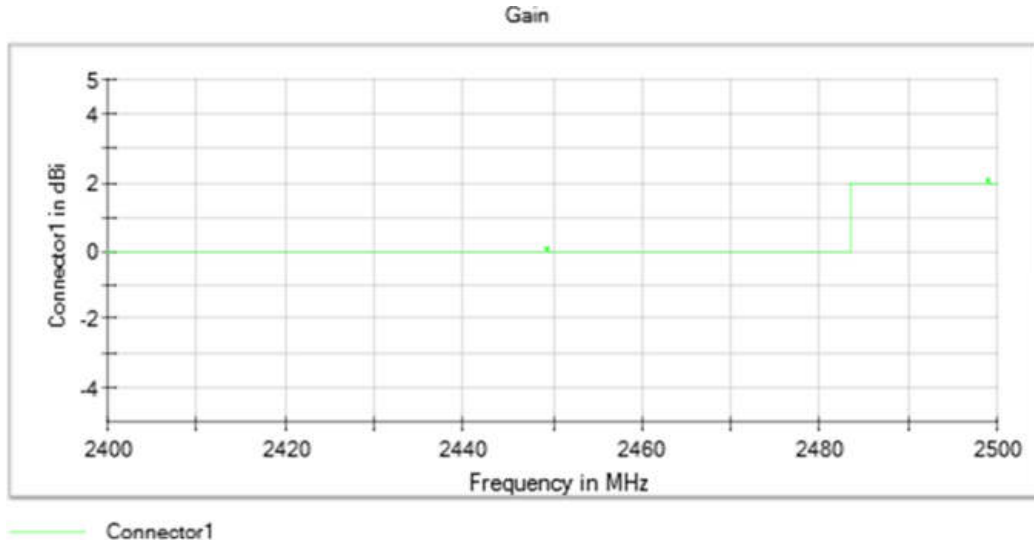


Frequency MHz = 2480.00000, Equipment Type = Digital Transmission System (DTS), Bandwidth MHz = 2,
Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Number of Transmission Chains = 1, Measurement Point = 1,
Active Port = 1

Images:







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)):

Frequency Range (MHz)	Field strength ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	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.

Modulation: BTLE 5.0 (GFSK 1 Mbit/s)

Frequency range 30 MHz – 1 GHz:

Spurious frequencies detected within 20 dB of the limit:

Low channel: 2402.00000 MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
30.727500	---	30.27	---	---
30.727500	27.15	---	40.00	12.85
34.801500	22.90	---	40.00	17.10
34.801500	---	26.48	---	---
38.875500	20.40	---	40.00	19.60
38.875500	---	23.90	---	---
42.998000	---	25.64	---	---
42.998000	23.60	---	40.00	16.40
47.945000	33.10	---	40.00	6.90
47.945000	---	34.65	---	---
51.146000	---	28.36	---	---
51.146000	23.27	---	40.00	16.73
55.268500	---	26.46	---	---
55.268500	22.94	---	40.00	17.06
57.014500	---	29.34	---	---
57.014500	26.41	---	40.00	13.59
63.028500	25.76	---	40.00	14.24
63.028500	---	28.39	---	---
68.994000	---	31.09	---	---
68.994000	29.52	---	40.00	10.48
71.952500	29.18	---	40.00	10.82
71.952500	---	31.48	---	---
96.008500	30.55	---	43.50	12.95
96.008500	---	32.64	---	---
143.975000	24.57	---	43.50	18.93
143.975000	---	27.44	---	---
168.031000	---	29.37	---	---
168.031000	27.19	---	43.50	16.31
192.232500	24.45	---	43.50	19.05
192.232500	---	26.97	---	---
204.163500	---	28.17	---	---
204.163500	15.73	---	43.50	27.77

Mid channel: 2440.00000 MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
44.986500	---	22.63	---	---
44.986500	18.34	---	40.00	21.66
47.993500	33.29	---	40.00	6.71
47.993500	---	34.57	---	---
50.952000	27.89	---	40.00	12.11
50.952000	---	31.09	---	---
56.966000	25.94	---	40.00	14.06
56.966000	---	30.00	---	---
62.980000	---	31.12	---	---
62.980000	28.40	---	40.00	11.60
68.994000	---	31.50	---	---
68.994000	30.09	---	40.00	9.91
72.001000	---	32.21	---	---
72.001000	30.74	---	40.00	9.26
75.008000	32.54	---	40.00	7.46
75.008000	---	34.06	---	---
80.973500	29.28	---	40.00	10.72
80.973500	---	32.04	---	---
86.987500	---	31.26	---	---

86.987500	29.05	---	40.00	10.95
92.953000	---	28.42	---	---
92.953000	24.43	---	43.50	19.07
95.960000	30.06	---	43.50	13.44
95.960000	---	32.61	---	---
98.967000	25.09	---	43.50	18.41
98.967000	---	28.46	---	---
117.057500	---	29.15	---	---
117.057500	24.69	---	43.50	18.81
144.023500	---	28.71	---	---
144.023500	26.43	---	43.50	17.07
168.079500	---	28.25	---	---
168.079500	25.77	---	43.50	17.73
192.087000	24.50	---	43.50	19.00
192.087000	---	26.99	---	---

High channel: 2480.00000 MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
30.679000	---	27.66	---	---
30.679000	23.33	---	40.00	16.67
34.753000	---	22.70	---	---
34.753000	17.04	---	40.00	22.96
38.875500	---	23.57	---	---
38.875500	19.99	---	40.00	20.01
42.998000	23.28	---	40.00	16.72
42.998000	---	25.64	---	---
47.993500	32.97	---	40.00	7.03
47.993500	---	34.43	---	---
51.000500	---	34.21	---	---
51.000500	31.64	---	40.00	8.36
55.268500	24.76	---	40.00	15.24
55.268500	---	28.06	---	---
56.966000	26.55	---	40.00	13.45
56.966000	---	29.63	---	---
59.391000	21.81	---	40.00	18.19
59.391000	---	25.59	---	---
62.980000	---	31.05	---	---
62.980000	27.88	---	40.00	12.12
68.994000	30.59	---	40.00	9.41
68.994000	---	32.27	---	---
72.001000	---	32.84	---	---
72.001000	30.90	---	40.00	9.10
75.008000	32.41	---	40.00	7.59
75.008000	---	34.12	---	---
80.973500	---	31.89	---	---
80.973500	29.01	---	40.00	10.99
86.987500	---	31.66	---	---
86.987500	29.54	---	40.00	10.46
93.001500	---	30.14	---	---
93.001500	28.04	---	43.50	15.46
96.008500	30.53	---	43.50	12.97
96.008500	---	32.56	---	---
99.015500	---	29.70	---	---
99.015500	27.34	---	43.50	16.16
128.940000	19.02	---	43.50	24.48
128.940000	---	24.89	---	---
134.954000	20.33	---	43.50	23.17
134.954000	---	25.20	---	---
140.968000	20.78	---	43.50	22.72
140.968000	---	24.95	---	---
144.072000	---	27.80	---	---
144.072000	24.72	---	43.50	18.78
146.982000	---	24.52	---	---
146.982000	21.55	---	43.50	21.95
167.982500	26.35	---	43.50	17.15
167.982500	---	29.22	---	---
191.990000	23.89	---	43.50	19.61
191.990000	---	26.39	---	---

203.872500	16.21	---	43.50	27.29
203.872500	---	26.23	---	---

All the quasi-peak maximizations are below the limit.

Verdict

Pass

Frequency range 1 – 3 GHz:

No spurious frequencies detected at less than 20 dB below the limit.

Verdict

Pass

Frequency range 3 – 17 GHz:

No spurious frequencies detected at less than 20 dB below the limit.

Verdict

Pass

Frequency range 17 – 26 GHz:

The spurious frequencies detected do not depend on either the modulation or the operating channel.

No spurious frequencies detected at less than 20 dB below the limit.

Verdict

Pass

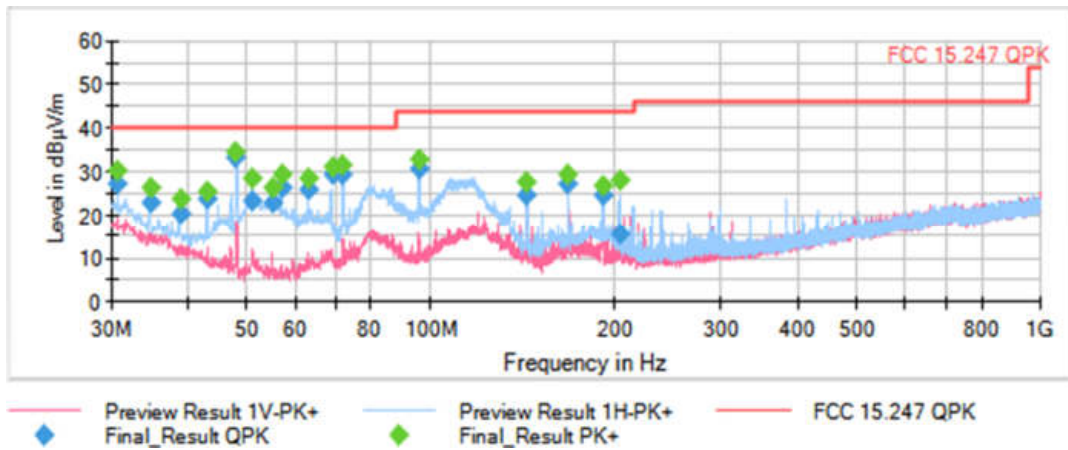
The receiver settings for each range of frequency is indicated in the following tables:

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
Receiver: [ESR 7] 30 MHz - 1 GHz	48,5 kHz	PK+	100 kHz	1 s	20 dB
Receiver: [FSV 40] 1 GHz - 3 GHz	66,667 kHz	PK+ ; AVG	1 MHz	1 s	0 dB
Receiver: [FSV 40] 3 GHz - 17 GHz	500 kHz	PK+ ; AVG	1 MHz	1 s	30 dB
Receiver: [FSV 40] 17 GHz - 26 GHz	500 kHz	PK+ ; AVG	1 MHz	1 s	30 dB

Attachments

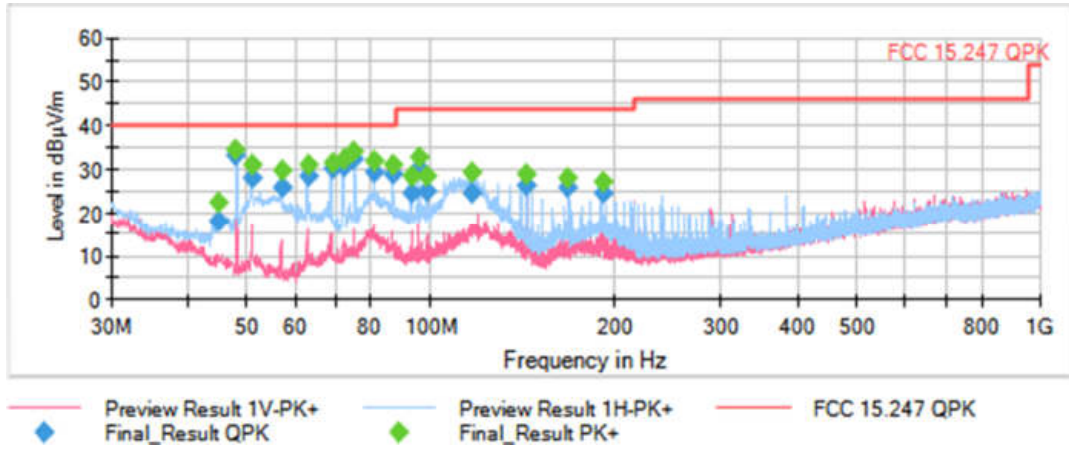
Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [0.03, 1], Number of Transmission Chains = 1, Measurement Point = 1, Active Port = 1

Images:



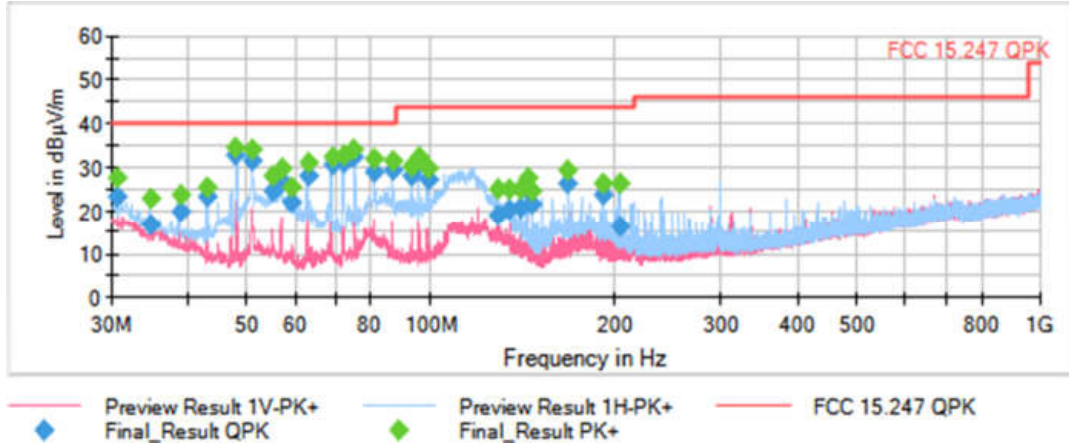
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Images:



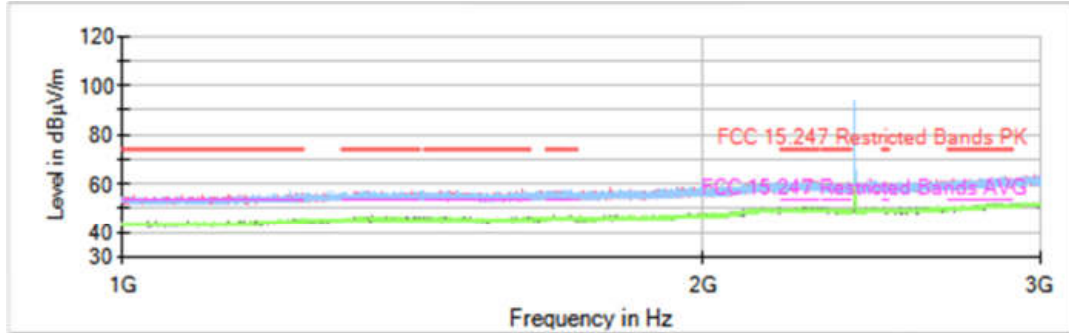
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Images:



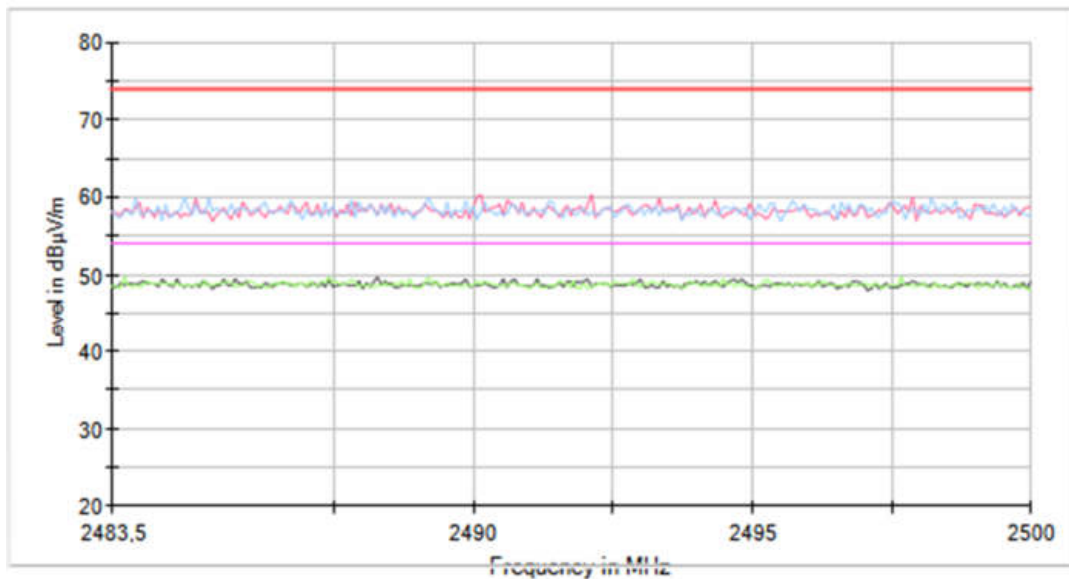
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Images:



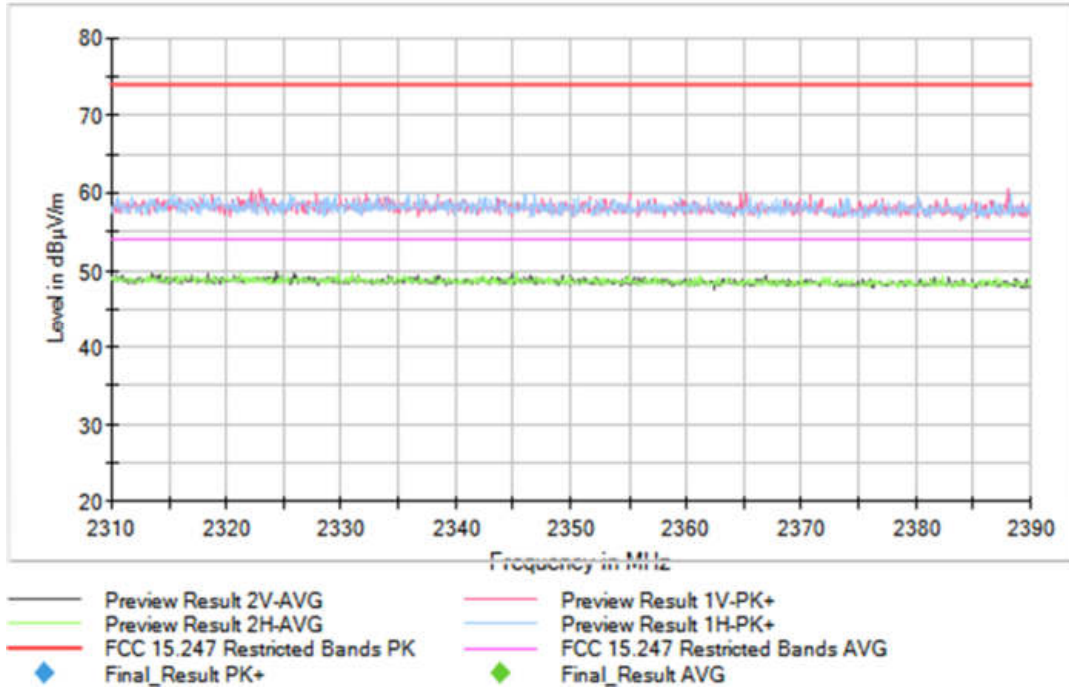
- Preview Result 2V-AVG
- Preview Result 2H-AVG
- FCC 15.247 Restricted Bands PK
- ◆ Final_Result PK+
- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC 15.247 Restricted Bands AVG
- ◆ Final_Result AVG

Full Spectrum



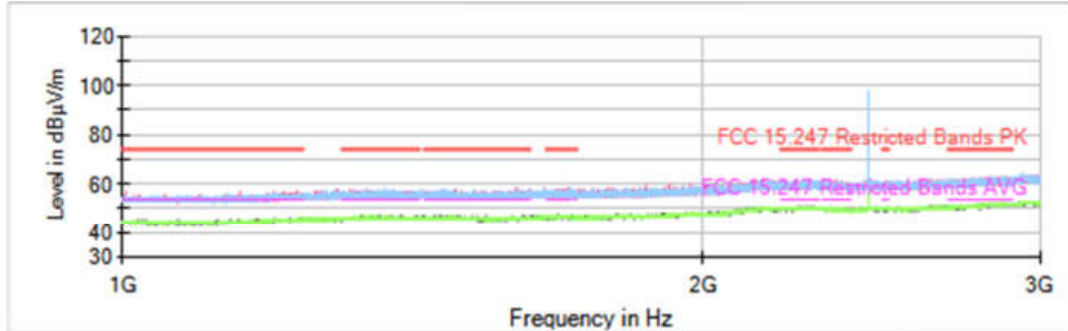
- Preview Result 2V-AVG
- Preview Result 2H-AVG
- FCC 15.247 Restricted Bands PK
- ◆ Final_Result PK+
- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC 15.247 Restricted Bands AVG
- ◆ Final_Result AVG

Full Spectrum



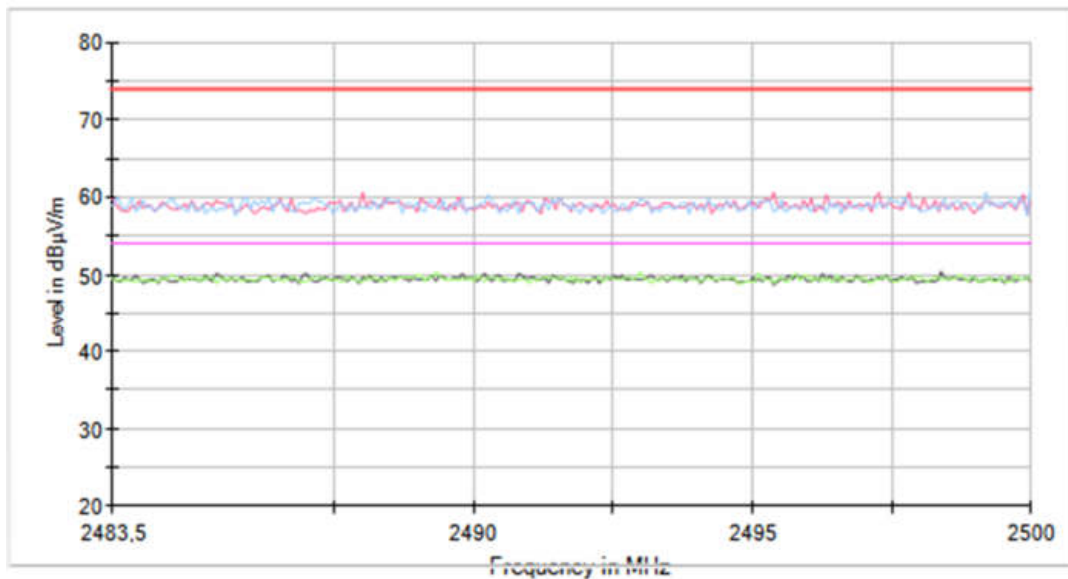
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Images:



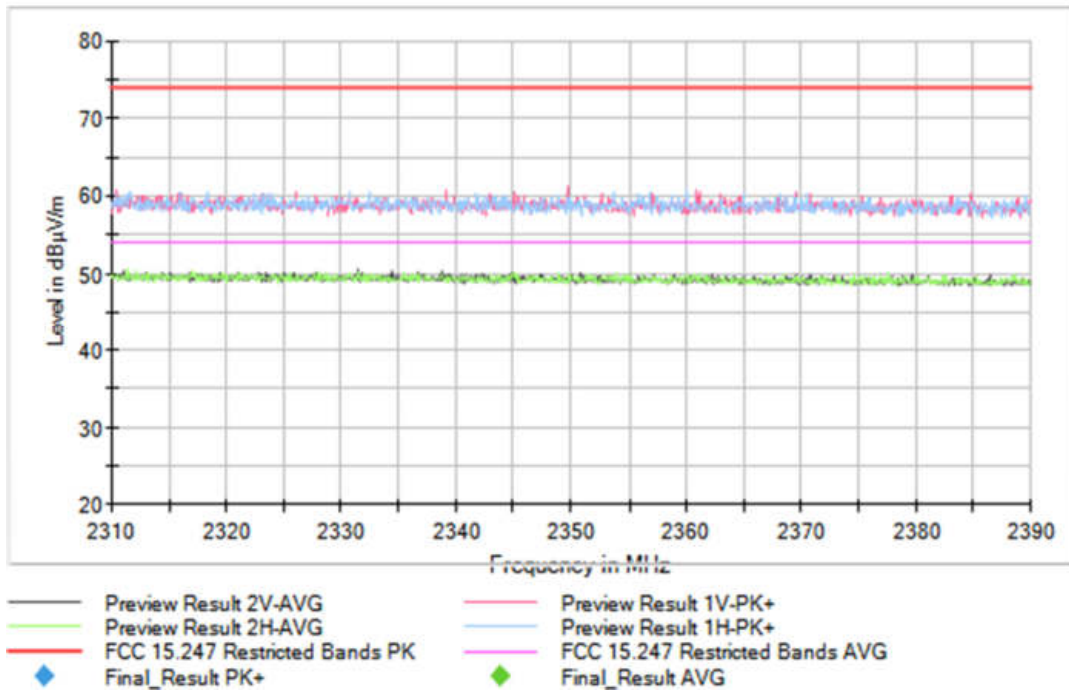
- Preview Result 2V-AVG
- Preview Result 2H-AVG
- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC 15.247 Restricted Bands PK
- FCC 15.247 Restricted Bands AVG
- ◆ Final_Result PK+
- ◆ Final_Result AVG

Full Spectrum



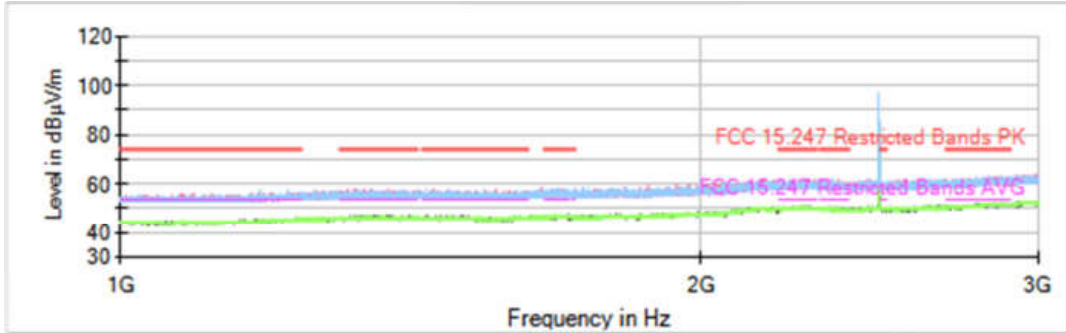
- Preview Result 2V-AVG
- Preview Result 2H-AVG
- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC 15.247 Restricted Bands PK
- FCC 15.247 Restricted Bands AVG
- ◆ Final_Result PK+
- ◆ Final_Result AVG

Full Spectrum



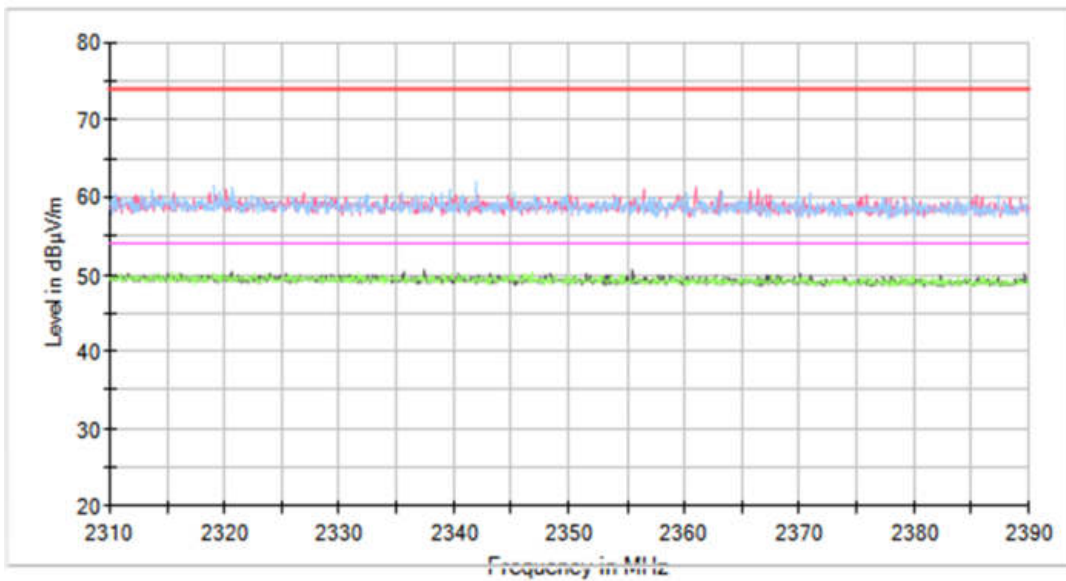
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Images:



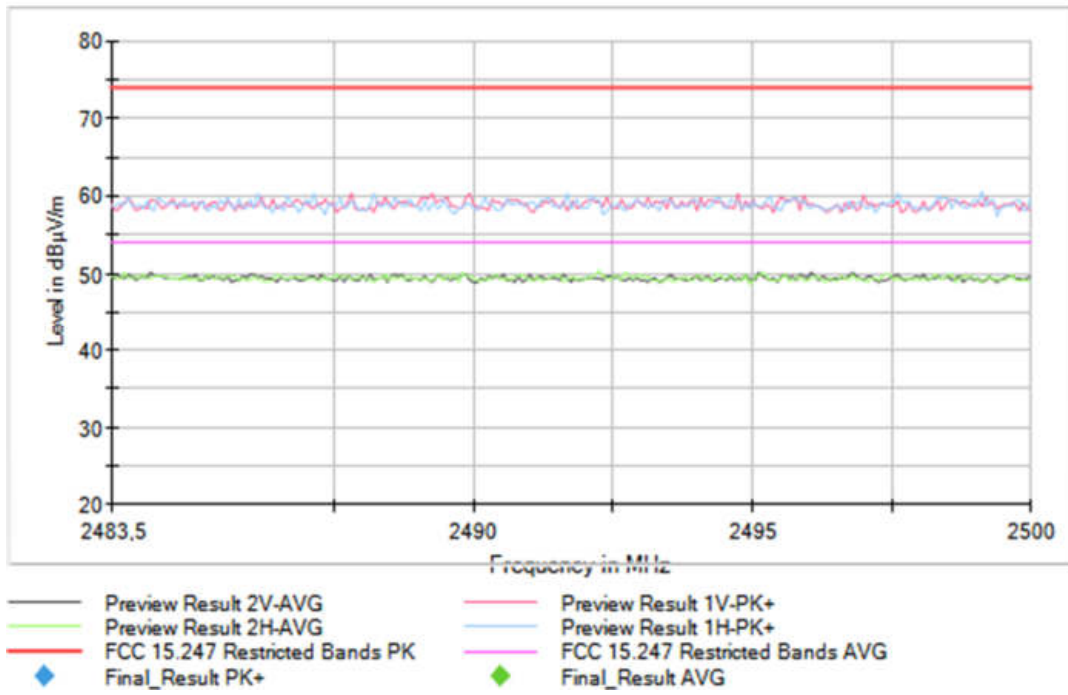
- Preview Result 2V-AVG
- Preview Result 2H-AVG
- FCC 15.247 Restricted Bands PK
- ◆ Final_Result PK+
- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC 15.247 Restricted Bands AVG
- ◆ Final_Result AVG

Full Spectrum



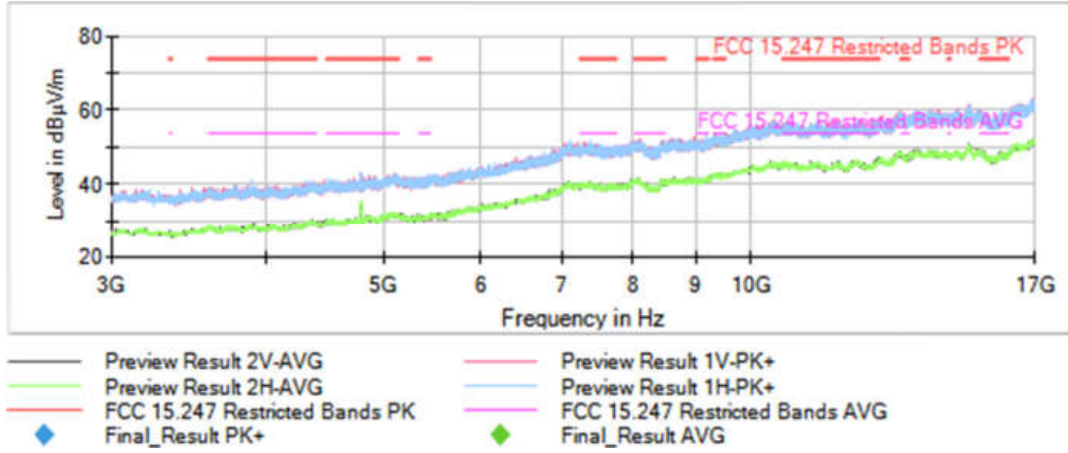
- Preview Result 2V-AVG
- Preview Result 2H-AVG
- FCC 15.247 Restricted Bands PK
- ◆ Final_Result PK+
- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC 15.247 Restricted Bands AVG
- ◆ Final_Result AVG

Full Spectrum



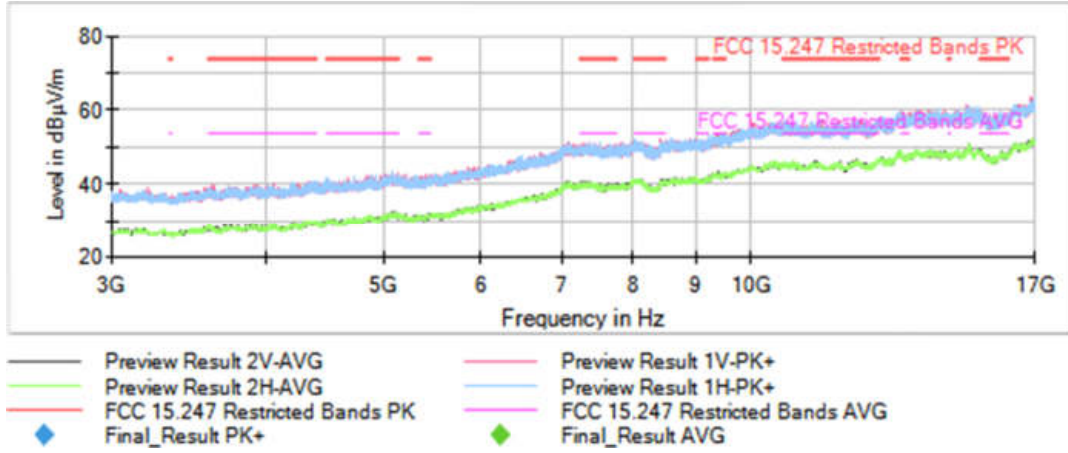
Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [3, 17], Number of Transmission Chains = 1, Measurement Point = 1, Active Port = 1

Images:



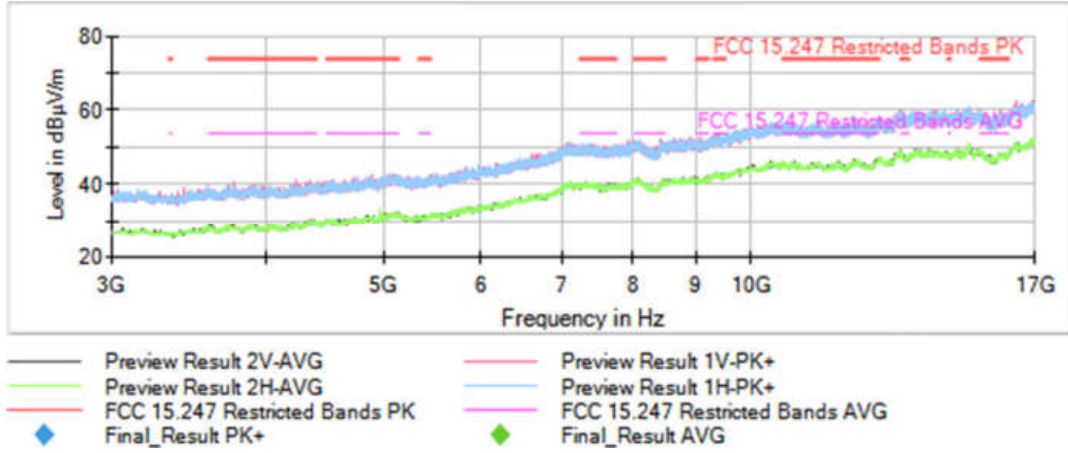
Frequency MHz = 2440.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [3, 17], Number of Transmission Chains = 1, Measurement Point = 1, Active Port = 1

Images:



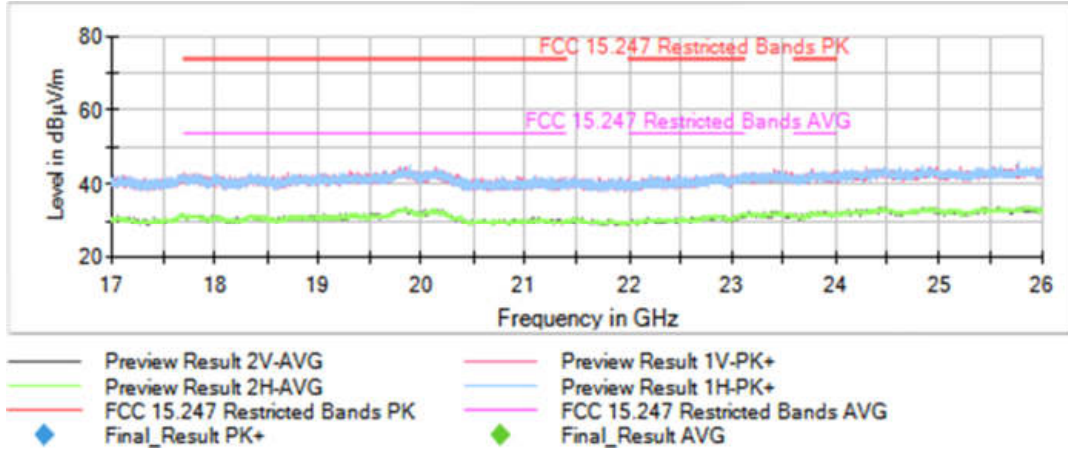
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Images:



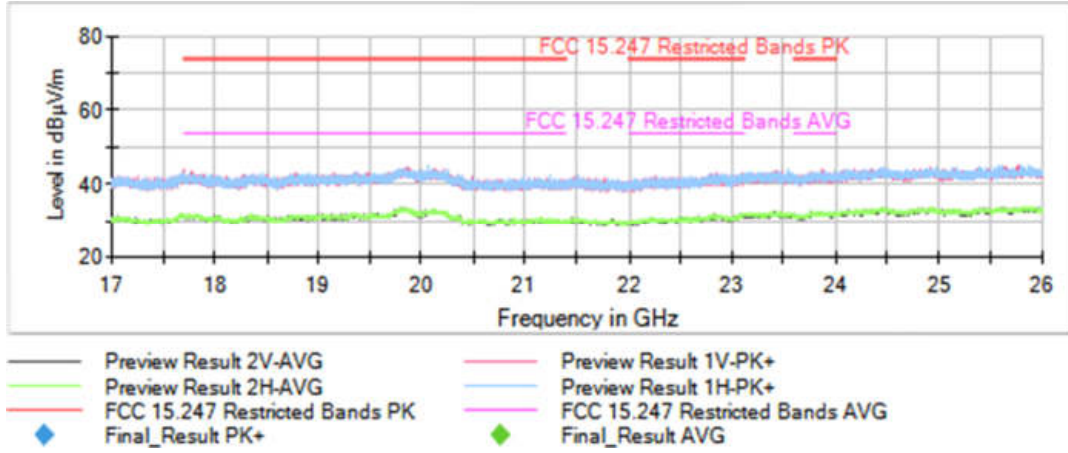
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Images:



Frequency MHz = 2440.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 1 Mbit/s), Frequency Range GHz = [17, 26], Number of Transmission Chains = 1, Measurement Point = 1, Active Port = 1

Images:



Modulation: BTLE 5.0 (GFSK 2 Mbit/s)

Frequency range 30 MHz – 1 GHz:

The spurious frequencies detected do not depend on either the modulation or the operating channel.

Spurious frequencies detected within 20 dB of the limit:

Low channel: 2402.00000 MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
44.986500	18.97	---	40.00	21.03
44.986500	---	23.49	---	---
48.042000	---	34.46	---	---
48.042000	32.95	---	40.00	7.05
51.000500	---	34.54	---	---
51.000500	32.38	---	40.00	7.62
56.966000	---	29.81	---	---
56.966000	26.61	---	40.00	13.39
62.980000	29.23	---	40.00	10.77
62.980000	---	31.62	---	---
68.994000	31.31	---	40.00	8.69
68.994000	---	32.64	---	---
72.001000	30.73	---	40.00	9.27
72.001000	---	32.33	---	---
74.959500	30.57	---	40.00	9.43
74.959500	---	33.65	---	---
80.973500	---	33.34	---	---
80.973500	30.86	---	40.00	9.14
86.987500	---	31.98	---	---
86.987500	29.95	---	40.00	10.05
92.953000	---	30.04	---	---
92.953000	26.18	---	43.50	17.32
95.960000	29.99	---	43.50	13.51
95.960000	---	32.49	---	---
99.015500	28.57	---	43.50	14.93
99.015500	---	30.82	---	---
104.981000	25.70	---	43.50	17.80
104.981000	---	28.70	---	---
110.995000	24.97	---	43.50	18.53
110.995000	---	28.52	---	---
116.960500	---	29.45	---	---
116.960500	24.98	---	43.50	18.52
128.988500	---	27.93	---	---
128.988500	25.01	---	43.50	18.49
134.954000	---	26.39	---	---
134.954000	21.27	---	43.50	22.23
144.023500	---	28.94	---	---
144.023500	26.41	---	43.50	17.09
167.982500	---	28.92	---	---
167.982500	26.48	---	43.50	17.02
192.087000	23.93	---	43.50	19.57
192.087000	---	26.48	---	---

Mid channel: 2440.00000 MHz

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)
44.986500	---	23.80	---	---
44.986500	20.21	---	40.00	19.79
47.993500	---	35.67	---	---
47.993500	34.51	---	40.00	5.49
50.952000	28.52	---	40.00	11.48
50.952000	---	31.64	---	---

56.966000	---	29.77	---	---
56.966000	26.39	---	40.00	13.61
62.980000	28.70	---	40.00	11.30
62.980000	---	31.45	---	---
68.994000	---	32.59	---	---
68.994000	31.16	---	40.00	8.84
71.904000	---	32.73	---	---
71.904000	30.81	---	40.00	9.19
75.008000	---	35.23	---	---
75.008000	33.64	---	40.00	6.36
80.973500	---	32.23	---	---
80.973500	29.67	---	40.00	10.33
86.987500	28.19	---	40.00	11.81
86.987500	---	30.45	---	---
93.001500	28.52	---	43.50	14.98
93.001500	---	30.48	---	---
95.960000	28.51	---	43.50	14.99
95.960000	---	31.34	---	---
99.015500	---	29.37	---	---
99.015500	27.49	---	43.50	16.01
105.029500	---	28.50	---	---
105.029500	24.46	---	43.50	19.04
117.009000	---	29.88	---	---
117.009000	25.92	---	43.50	17.58
122.974500	---	27.86	---	---
122.974500	23.96	---	43.50	19.54
135.051000	---	26.22	---	---
135.051000	23.16	---	43.50	20.34
141.016500	24.86	---	43.50	18.64
141.016500	---	27.15	---	---
143.975000	---	26.64	---	---
143.975000	23.57	---	43.50	19.93
146.982000	23.12	---	43.50	20.38
146.982000	---	26.05	---	---
152.996000	20.70	---	43.50	22.80
152.996000	---	23.73	---	---
167.740000	24.40	---	43.50	19.10
167.740000	---	27.88	---	---
191.990000	23.58	---	43.50	19.92
191.990000	---	26.02	---	---

High channel: 2480.00000 MHz

The spurious frequencies detected do not depend on either the modulation or the operating channel.

All the quasi-peak maximizations are below the limit.

Verdict

Pass

Frequency range 1 – 3 GHz:

No spurious frequencies detected at less than 20 dB below the limit.

Verdict

Pass

Frequency range 3 – 17 GHz:

No spurious frequencies detected at less than 20 dB below the limit.

Verdict

Pass

Frequency range 17 – 26 GHz:

The spurious frequencies detected do not depend on either the modulation or the operating channel.

No spurious frequencies detected at less than 20 dB below the limit.

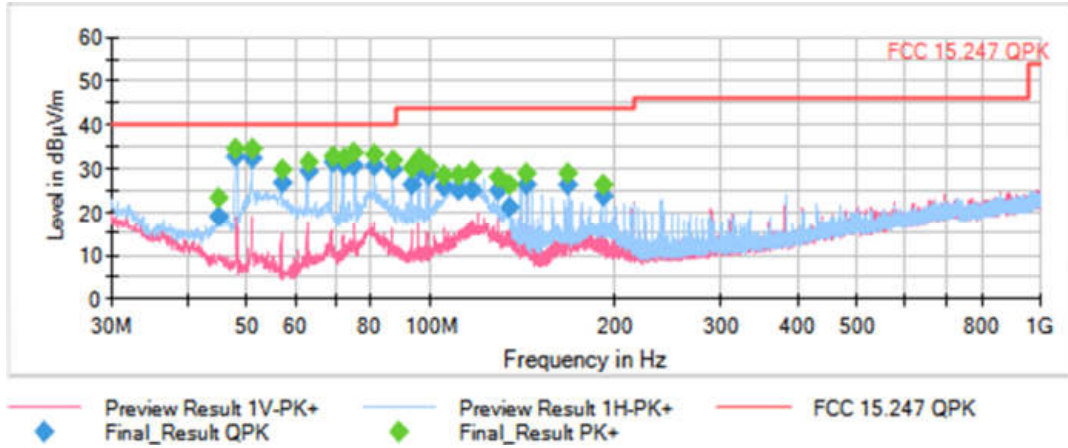
Verdict

Pass

Attachments

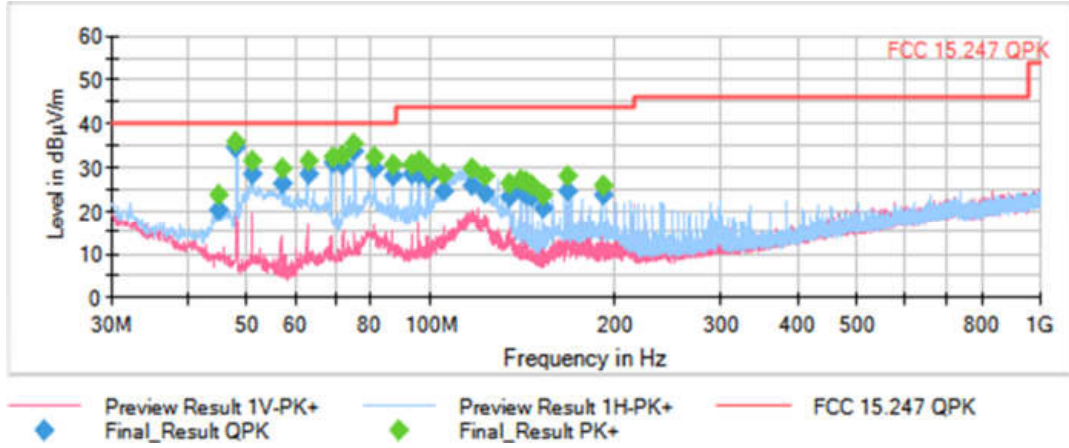
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Images:



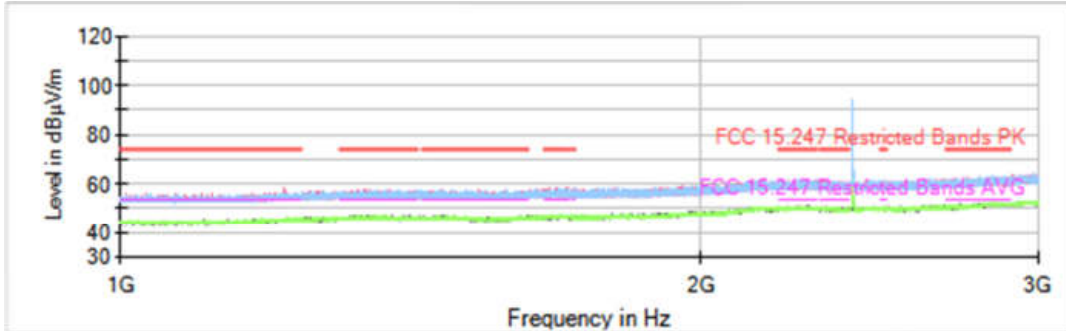
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Images:



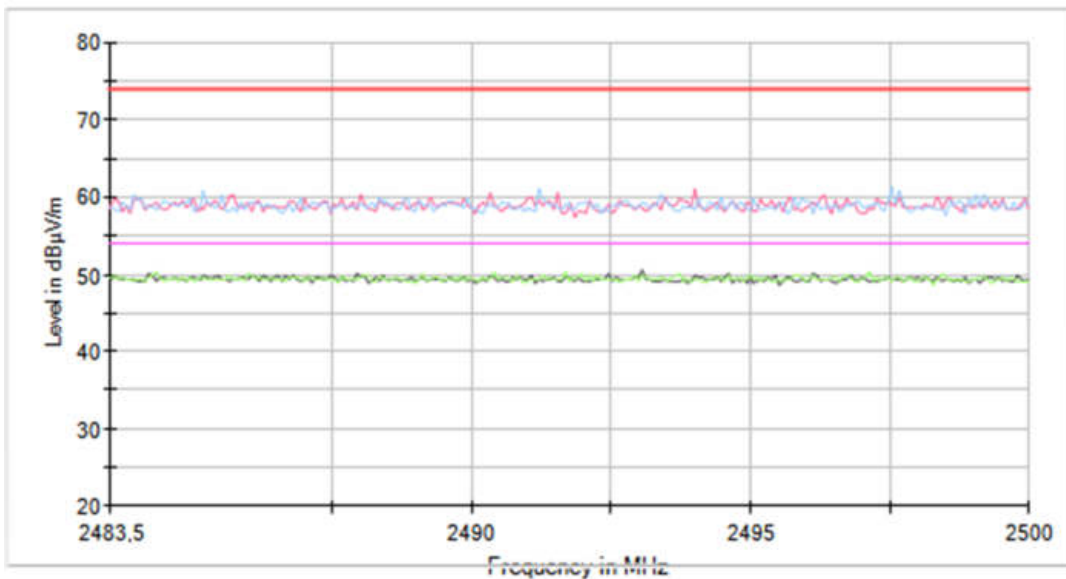
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Images:



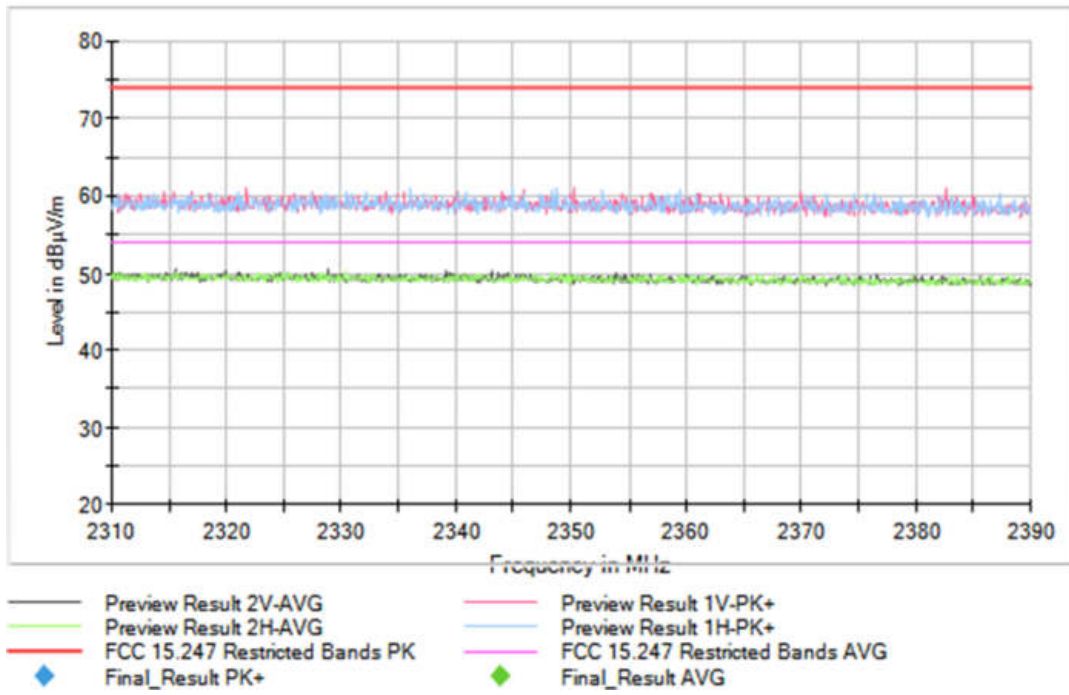
- Preview Result 2V-AVG
- Preview Result 2H-AVG
- FCC 15.247 Restricted Bands PK
- ◆ Final_Result PK+
- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC 15.247 Restricted Bands AVG
- ◆ Final_Result AVG

Full Spectrum



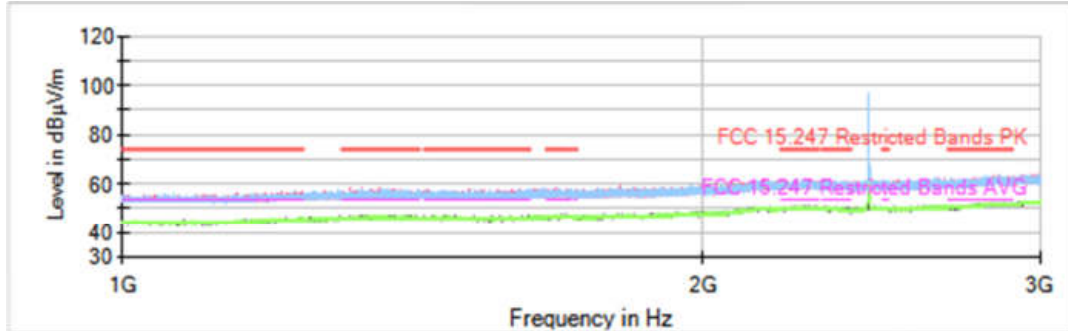
- Preview Result 2V-AVG
- Preview Result 2H-AVG
- FCC 15.247 Restricted Bands PK
- ◆ Final_Result PK+
- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC 15.247 Restricted Bands AVG
- ◆ Final_Result AVG

Full Spectrum



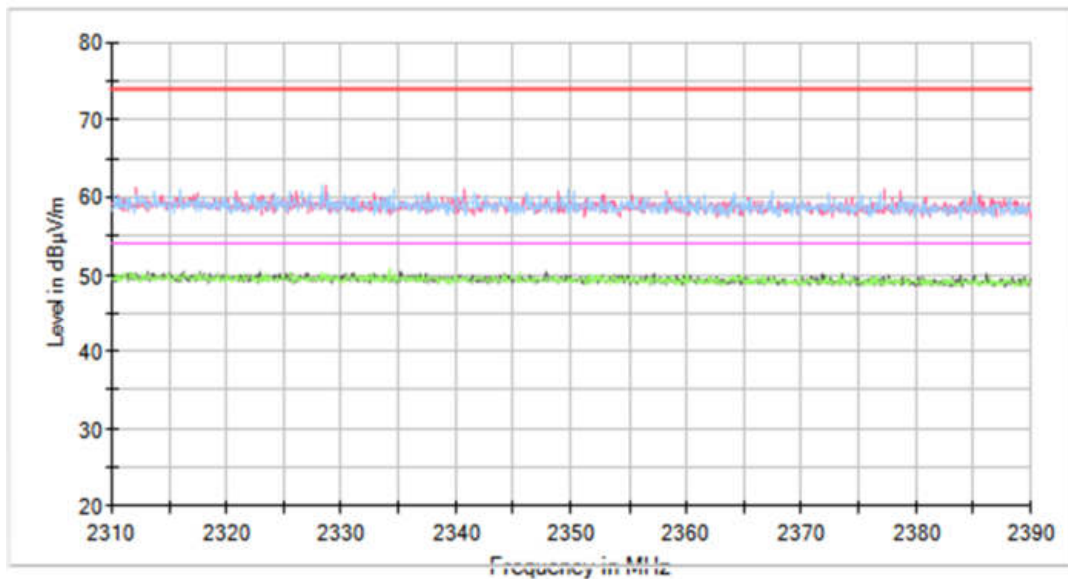
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Images:



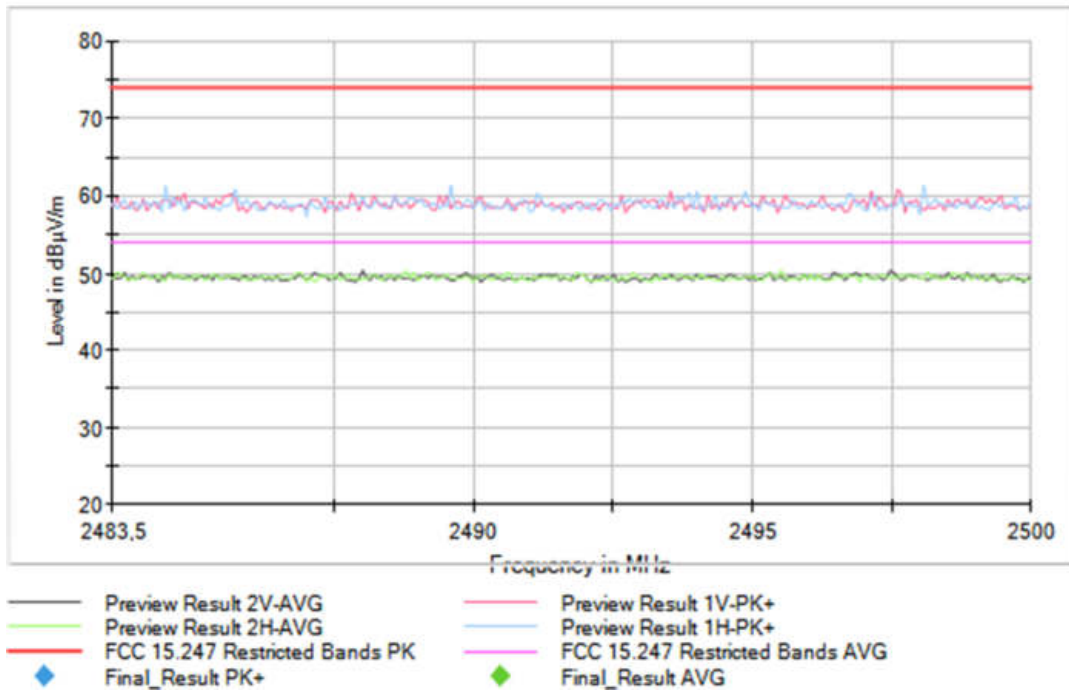
- Preview Result 2V-AVG
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- ◆ Final_Result PK+
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- Preview Result 1H-PK+
- FCC 15.247 Restricted Bands AVG
- ◆ Final_Result AVG

Full Spectrum



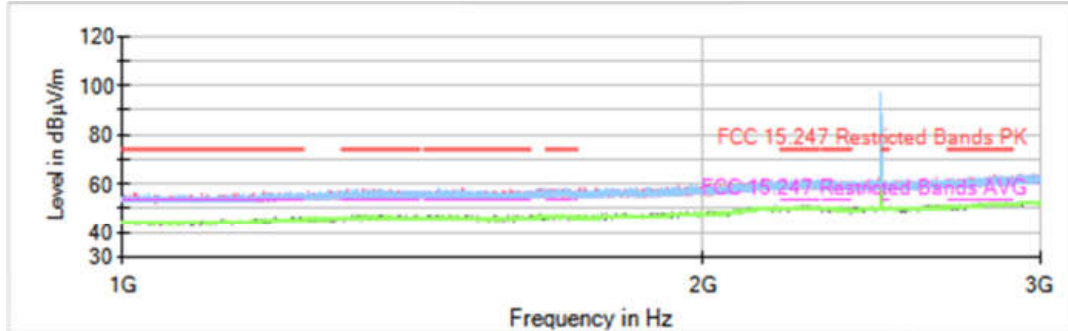
- Preview Result 2V-AVG
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- FCC 15.247 Restricted Bands PK
- ◆ Final_Result PK+
- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC 15.247 Restricted Bands AVG
- ◆ Final_Result AVG

Full Spectrum



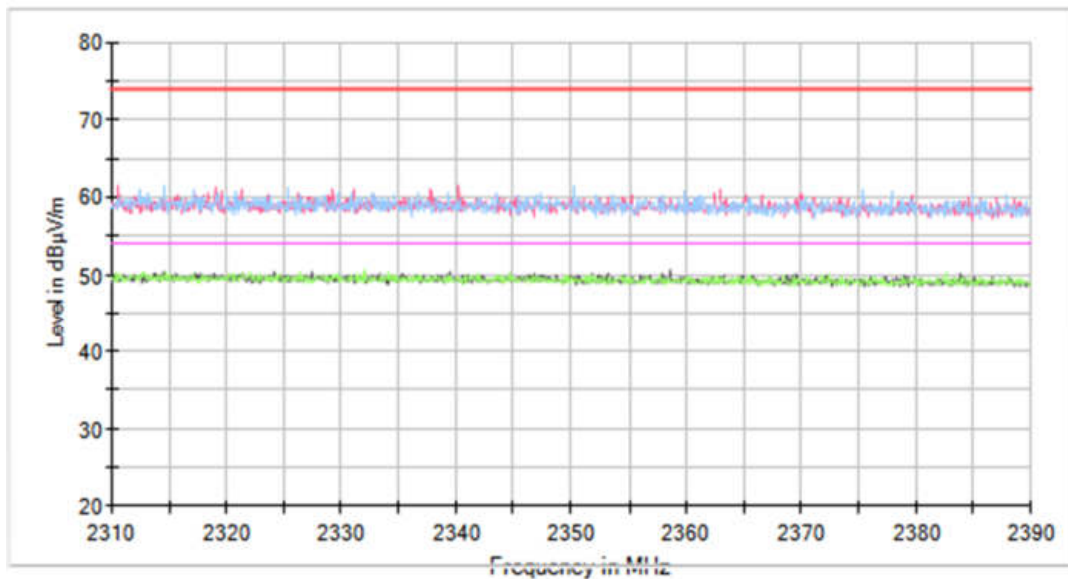
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Images:



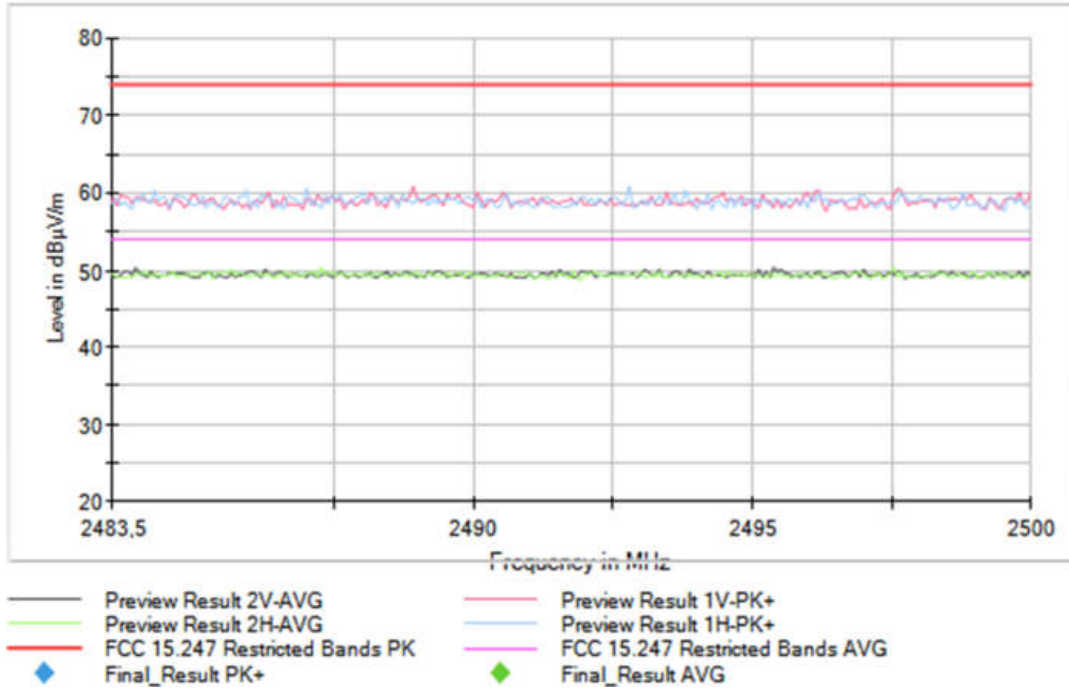
- Preview Result 2V-AVG
- Preview Result 2H-AVG
- FCC 15.247 Restricted Bands PK
- ◆ Final_Result PK+
- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC 15.247 Restricted Bands AVG
- ◆ Final_Result AVG

Full Spectrum



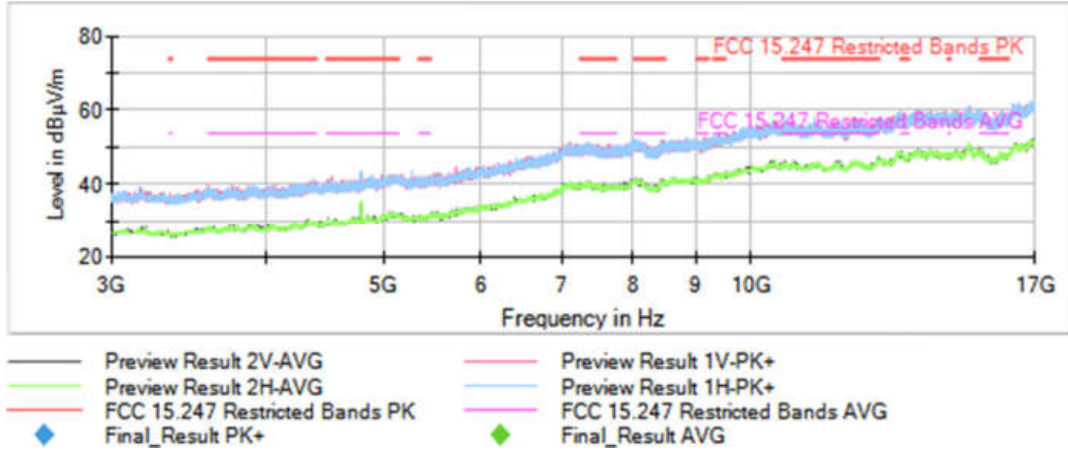
- Preview Result 2V-AVG
- Preview Result 2H-AVG
- FCC 15.247 Restricted Bands PK
- ◆ Final_Result PK+
- Preview Result 1V-PK+
- Preview Result 1H-PK+
- FCC 15.247 Restricted Bands AVG
- ◆ Final_Result AVG

Full Spectrum



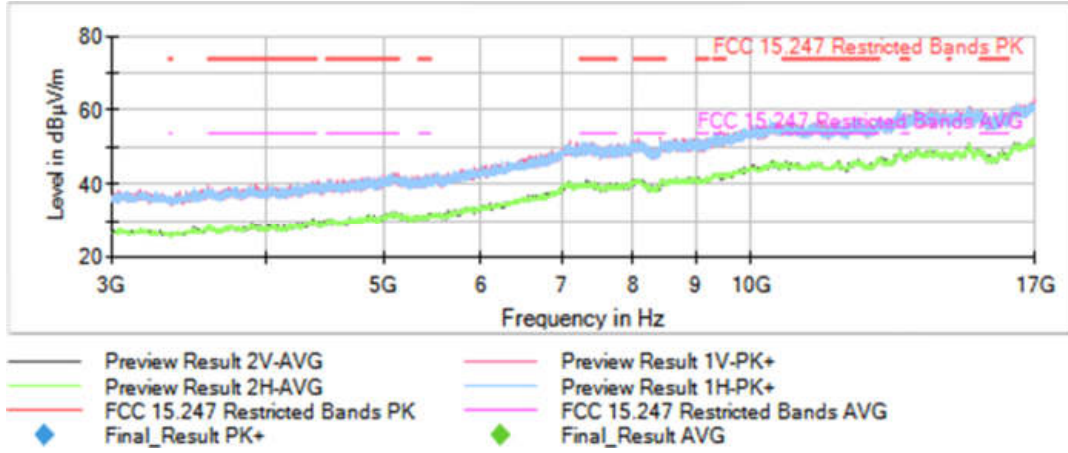
Frequency MHz = 2402.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Frequency Range GHz = [3, 17], Number of Transmission Chains = 1, Measurement Point = 1, Active Port = 1

Images:



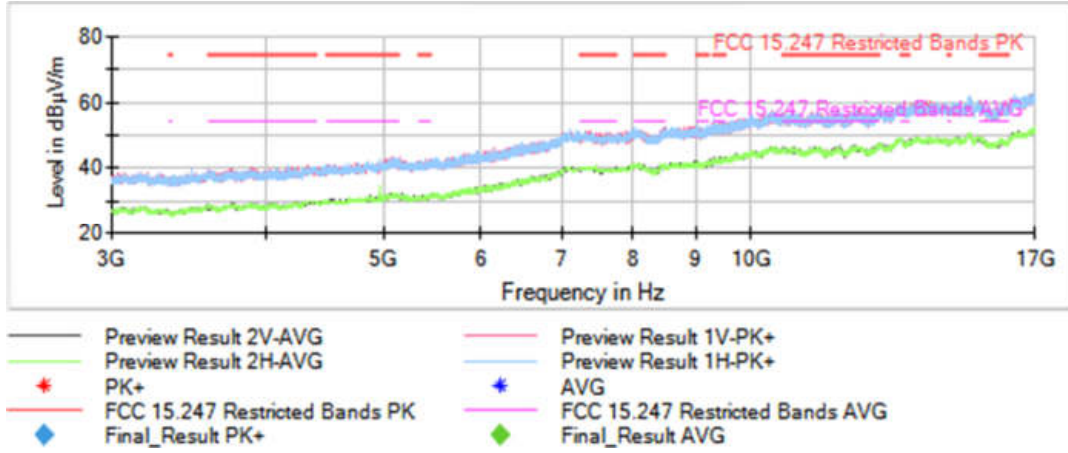
Frequency MHz = 2440.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Frequency Range GHz = [3, 17], Number of Transmission Chains = 1, Measurement Point = 1, Active Port = 1

Images:



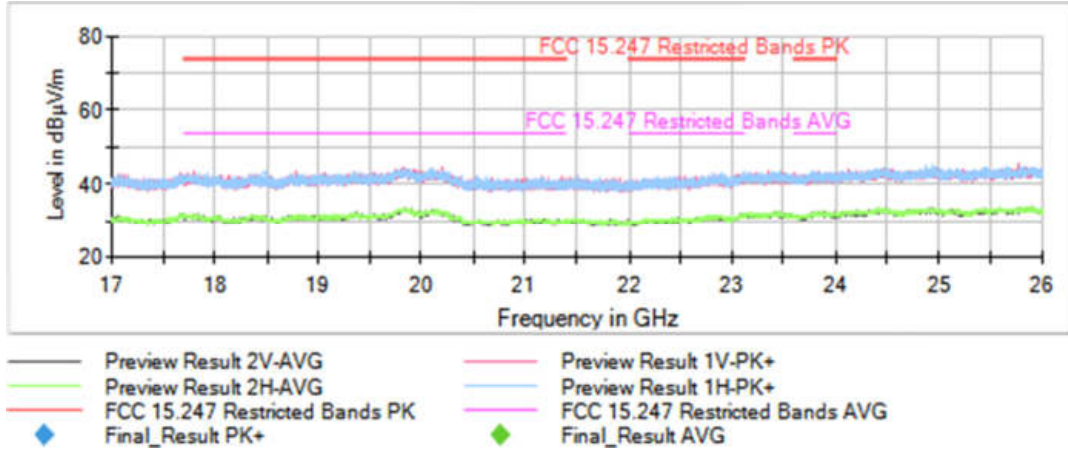
Frequency MHz = 2480.00000, Equipment Type = Frequency Hopping Spread Spectrum systems (DSS),
 Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Frequency Range GHz = [3, 17], Number of Transmission Chains
 = 1, Measurement Point = 1, Active Port = 1

Images:



Frequency MHz = 2440.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Frequency Range GHz = [17, 26], Number of Transmission Chains = 1, Measurement Point = 1, Active Port = 1

Images:



Frequency MHz = 2480.00000, Equipment Type = Digital Transmission System (DTS), Modulation = BTLE 5.0 (GFSK 2 Mbit/s), Frequency Range GHz = [17, 26], Number of Transmission Chains = 1, Measurement Point = 1, Active Port = 1

Images:

