

ISED CABid: ES1909

Test Report No:

Lab. Company Number: 4621A

72872RRF.008A2

## Test Report

USA FCC Part 15.247, 15.209

CANADA RSS-247, RSS-Gen

(*) Identification of item tested	Guardvision
(*) Trademark	Verisure
(*) Model and /or type reference	GWL-MD-C1
Other identification of the product	FCC ID: 2A93W-GWL-MD-C1 IC: Not provided
(*) Features	2.4GHz Wi-Fi 4 (802.11n), ISM LATAM band 902-928MHz HW version: 2K SW version: 2.19.3
Applicant	Verisure Sarl Chemin Jean-Baptiste Vandelle 3 1290 Versoix Switzerland
Test method requested, standard	USA FCC Part 15.247 (10-1-21 Edition): Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz. USA FCC Part 15.209 (10-1-21 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)	José Manuel Gómez Galván EMC Consumer & RF Lab. Manager
Date of issue	2023-07-06
Report template No	FDT08_24 (* "Data provided by the client")

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## Acronyms

Acronym ID	Acronym Description
Effective Isotropic Radiated Power	E.I.R.P.
# of Tx Chains	Number of Transmission Chains
Avg Power	Maximum Average Conducted Output Power
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
Occ Ch BW	Occupied Channel Bandwidth
PSD	Power Spectrum Density
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.

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## General conditions

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1. This report is only referred to the item that has undergone the test.
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3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA Testing and Certification S.A.U.
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## Uncertainty

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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  $\leq \pm 1,14$  %

Occupied Channel Bandwidth: Measurement uncertainty  $\leq \pm 1,40$  %

Conducted Band-edge spurious emissions: Measurement uncertainty  $\leq \pm 1,76$  dB

## Data provided by the client

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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 Guardvision. Guardvision is next generation PIR with built in camera for photo and video. It connects to the GW using both Latam SubGHz and Wifi. The wifi connection is required in order to handle Fota and video, it will also make photo transfer quicker than compared to SubGHz.
3. Equipment supports frequency sharing techniques.

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 undergoing test have been selected by: The client.

Id	Control Number	Description	Model	Serial N°	Date of Reception	Application
S/01	72872C_77.1	Guardvision (radiated)	GWL-MD-C1	36AK L5AE	2023-01-05	Element Under Test
S/02	72872C_73.1	Guardvision (conducted)	GWL-MD-C1	36AK KKG7	2023-12-09	Element Under Test
S/01 & S/02	72872C_78.1	Interface board	--	--	2023-01-05	Auxiliary Element
	72872C_81.1	SMA cable	--	--	2023-01-05	Auxiliary Element
	72872C_83.1	USB cable	--	--	2023-01-05	Auxiliary Element
	72872C_85.1	USB cable	--	--	2023-01-05	Auxiliary Element
	72872C_86.1	USB cable	--	--	2023-01-05	Auxiliary Element

Notes referenced to samples during the project:

Id	Type
S/01	Test samples used for Radiated testing
S/02	Test samples used for Conducted testing

## Test sample description

Ports..... :	Port name and description	Cable				
		Specified max length [m]	Attached during test	Shielded	Coupled to patient <sup>(3)</sup>	
	<i>We don't have ports used by users, just we have ports for debugging</i>	.....	[ ]	[ ]	[ ]	
Supplementary information to the ports..... :	.....					
Rated power supply .....	Voltage and Frequency		Reference poles			
			L1	L2	L3	N
	[ ]	AC: .....	[ ]	[ ]	[ ]	[ ]
	[X]	DC: battery powered device. 6 x AA 1.5 V				
Rated Power .....	4.5 W					
Clock frequencies..... :	LFXO 32.768 kHz crystal oscillator. Freq in the range from 38 to 40 MHz are supported					
Other parameters .....	.....					
Software version .....	2.19.3					
Hardware version .....	2K					
Dimensions in cm (W x H x D) .....	5.9 x 17.5 x 5.9					
Mounting position .....	[ ]	Table top equipment				
	[X]	Wall/Ceiling mounted equipment				
	[ ]	Floor standing equipment				
	[ ]	Hand-held equipment				
	[ ]	Other: .....				
Modules/parts..... :	Module/parts of test item		Type	Manufacturer		
	.....		.....	.....		
Accessories (not part of the test item) :	Description		Type	Manufacturer		
	Debugging board and flat cable to run commands		.....	.....		
	RF pigtail		.....	.....		

Documents as provided by the applicant .....	Description	File name	Issue date
	.....	.....	.....

<sup>(3)</sup> Only for Medical Equipment

## Identification of the client

Verisure Innovation  
Nordenskiöldsgatan 11A 211 19 Malmö Sweden

## Testing period and place

<b>Test Location</b>	DEKRA Testing and Certification S.A.U.
<b>Date (start)</b>	2023-01-10
<b>Date (finish)</b>	2023-03-20

## Document history

Report number	Date	Description
72872RRF.008	2023-04-14	First release.
72872RRF.008A1	2023-06-28	Second release. New information is added in Appedix A, Test Conditions. This modification test report cancels and replaces the test report 72872RRF.008.
72872RRF.008A2	2023-07-06	Third release. WLAN technology is added in Appendix B. This modification test report cancels and replaces the test report 72872RRF.008A1.

## Environmental conditions

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

<b>Temperature</b>	Min. = 15 °C Max. = 35 °C
<b>Relative humidity</b>	Min. = 20 % Max. = 75 %

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

<b>Temperature</b>	Min. = 15 °C Max. = 35 °C
<b>Relative humidity</b>	Min. = 20 % Max. = 75 %

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

<b>Temperature</b>	Min. = 15 °C Max. = 35 °C
<b>Relative humidity</b>	Min. = 20 % Max. = 75 %



## Remarks and comments

The tests have been performed by the technical personnel: Fernando Chito Solis, Miguel Manuel López Guzmán and Sergio Carrasco.

Used instrumentation:

Control No.	Equipment	Model	Manufacturer	Next Calibration
6143	HYBRID BILOG ANTENNA 30MHz-6GHz	3142E	ETS LINDGREN	2023-10-29
6142	PRE-AMPLIFIER G>38dB 30MHz-6GHz	BLNA 0360-01N	BONN ELEKTRONIK	2023-06-16
6144	PRE-AMPLIFIER G>40dB 10MHz-6GHz	BLNA 0160-01N	BONN ELEKTRONIK	2023-03-17
6496	HORN ANTENNA 1-18GHz	BBHA 9120 D	SCHWARZBECK	2023-08-24
3783	PRE-AMPLIFIER G>30dB 1GHz-18GHz	BLMA 0118-3A	BONN ELEKTRONIK	2023-12-29
4657	HORN ANTENNA 18-40GHz	BBHA 9170	SCHWARZBECK	2023-05-05
8856	PRE-AMPLIFIER G>30dB 18-40GHz	BLMA 1840-4A	BONN ELEKTRONIK	2023-11-02
7794	SIGNAL AND SPECTRUM ANALYZER 10Hz-40GHz	FSV40	ROHDE AND SCHWARZ	2023-02-26
7817	EMI TEST RECEIVER 2Hz-44GHz	ESW44	ROHDE AND SCHWARZ	2023-12-30
7445	DC POWER SUPPLY 30V/5A	U8002A	KEYSIGHT TECHNOLOGIES	N/A
7760	DIGITAL MULTIMETER	175	FLUKE	2023-11-14
6791	SEMIANECHOIC ABSORBER LINED CHAMBER IV	FACT 3 200 STP	ETS LINDGREN	N/A
6158	SIGNAL AND SPECTRUM ANALYZER 10Hz-40GHz	FSV40	ROHDE AND SCHWARZ	2023-10-22
4848	SOFTWARE FOR EMC/RF TESTING	EMC32	ROHDE AND SCHWARZ	N/A

## Testing verdicts

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

## Summary

### SRD 915 MHz

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			

### 802.11 B/G/N 20 MHz 1x1

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. SRD 915 MHz

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## TEST CONDITIONS

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(\*): Data provided by the client.

### POWER SUPPLY (\*):

Vnominal:	6 x AA 1.5 V
Type of Power Supply:	Battery powered device.

### ANTENNA (\*):

Type of Antenna:	Integral Antenna
Maximum Declared Antenna Gain:	0 dBi

FREQUENCY BAND RANGE (\*): 915.5 - 925.5 MHz

### TEST FREQUENCIES (\*):

Low Channel:	915.5 MHz
Middle Channel:	919.5 MHz
High Channel:	925.5 MHz

MODULATION (\*): 2GFSK

CHANNEL BANDWIDTH (\*): 617.4 kHz

### CONDUCTED MEASUREMENTS:

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



### RADIATED MEASUREMENTS:

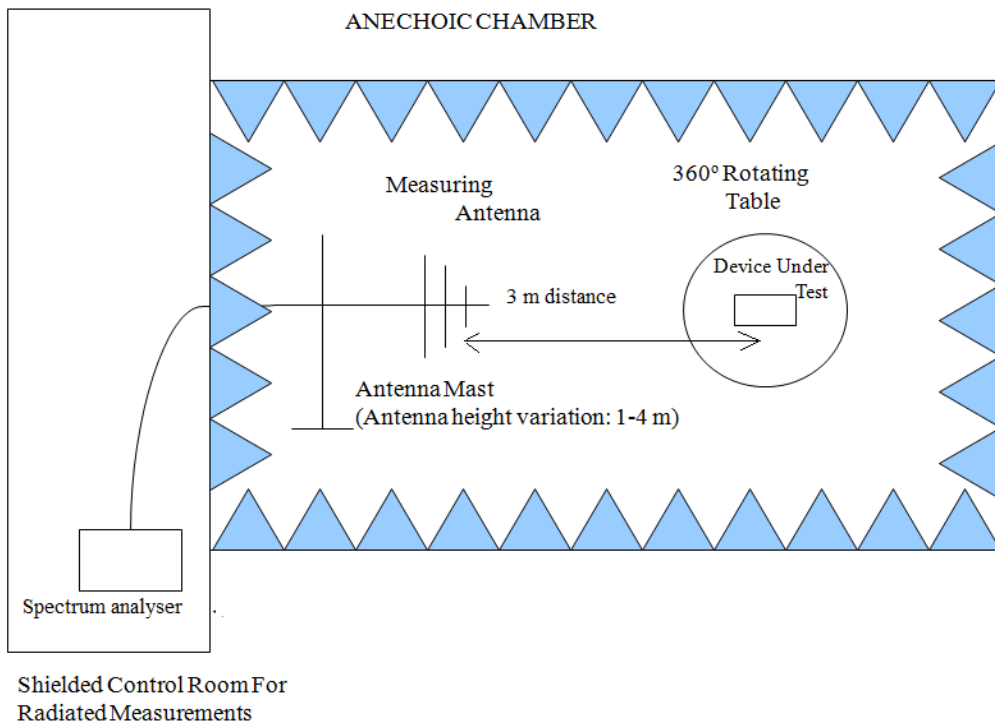
All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Bilog antenna for the range between 30 MHz to 1000 MHz and 1 GHz-10 GHz Double ridge horn antenna) is situated at a distance of 3 m.

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.

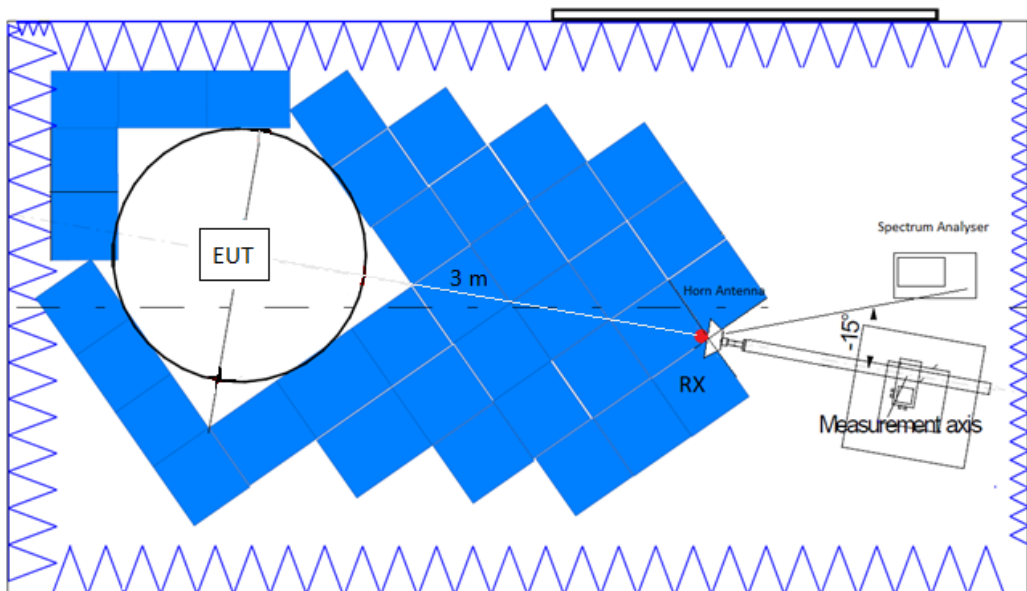
Measurements were made in both horizontal and vertical planes of polarization.

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 10 GHz:



# TEST CASES DETAILS

## Occupied Bandwidth

### Results

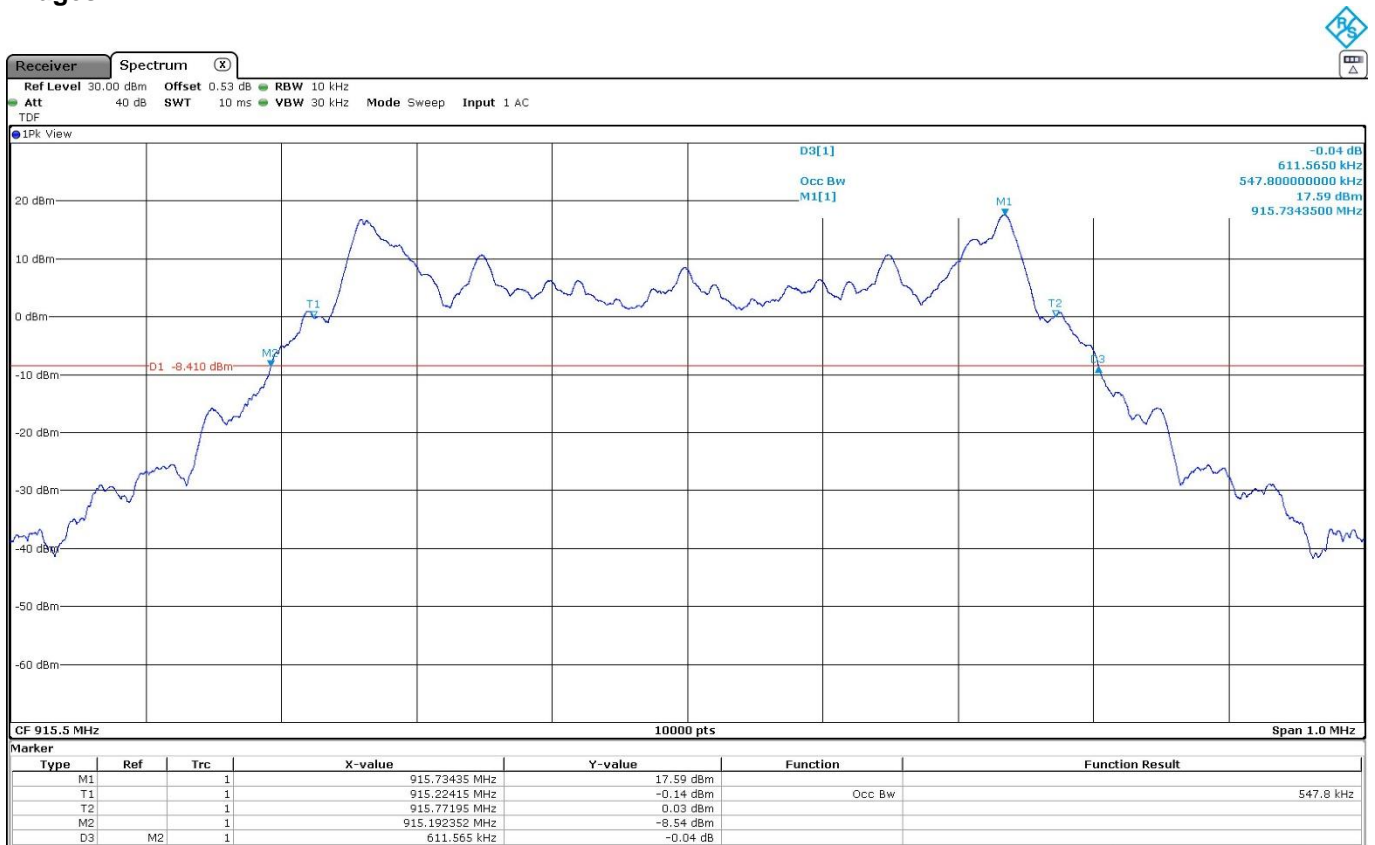
Modulation: 2GFSK

Freq (MHz)	Occ Ch BW (kHz)
915.50	547.80
919.50	548.00
925.50	547.70

### Attachments

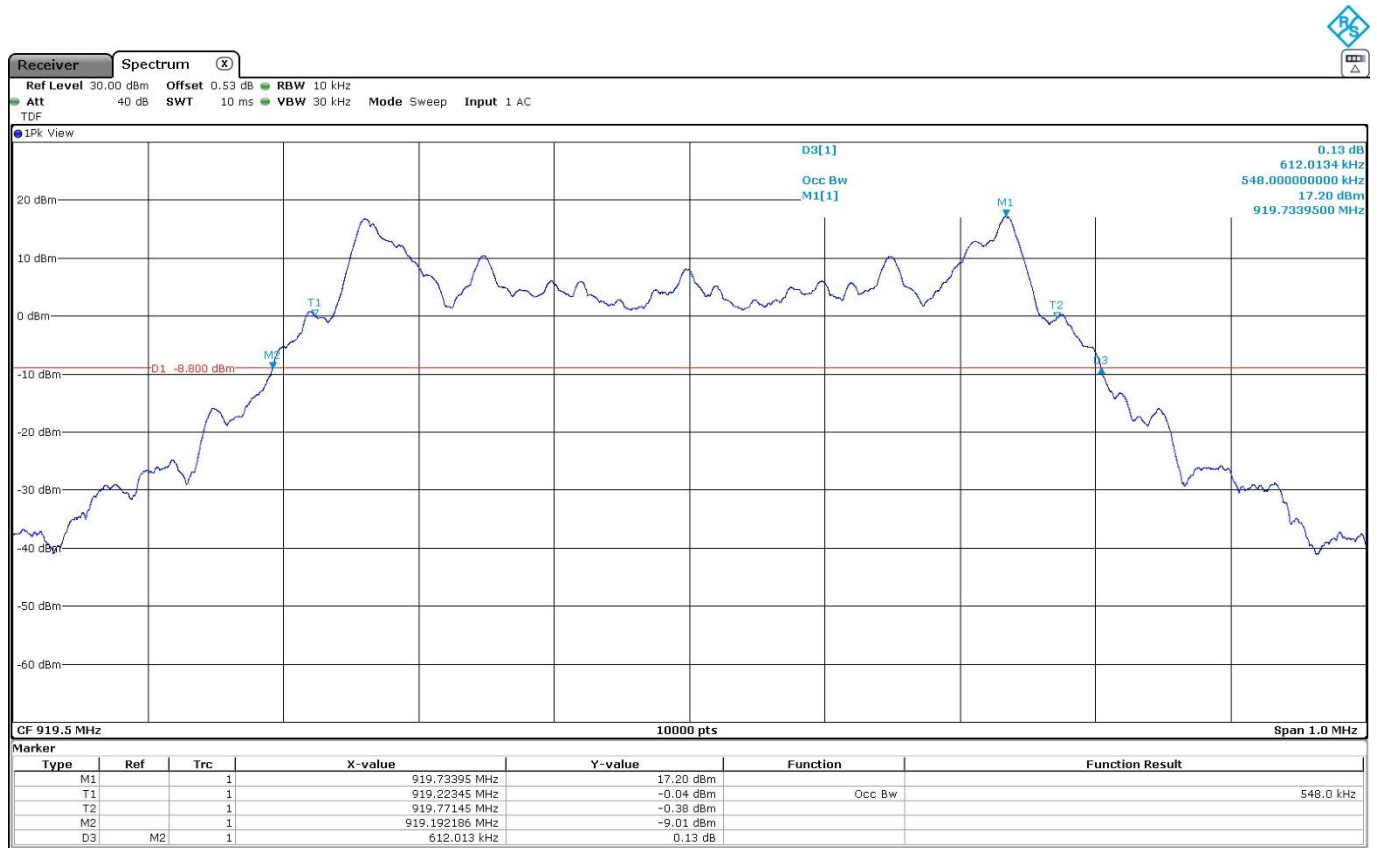
Frequency MHz = 915.5; Equipment Type = Digital Transmission System (DTS); Modulation = 2GFSK.

### Images:



Frequency MHz = 919.5; Equipment Type = Digital Transmission System (DTS); Modulation = 2GFSK.

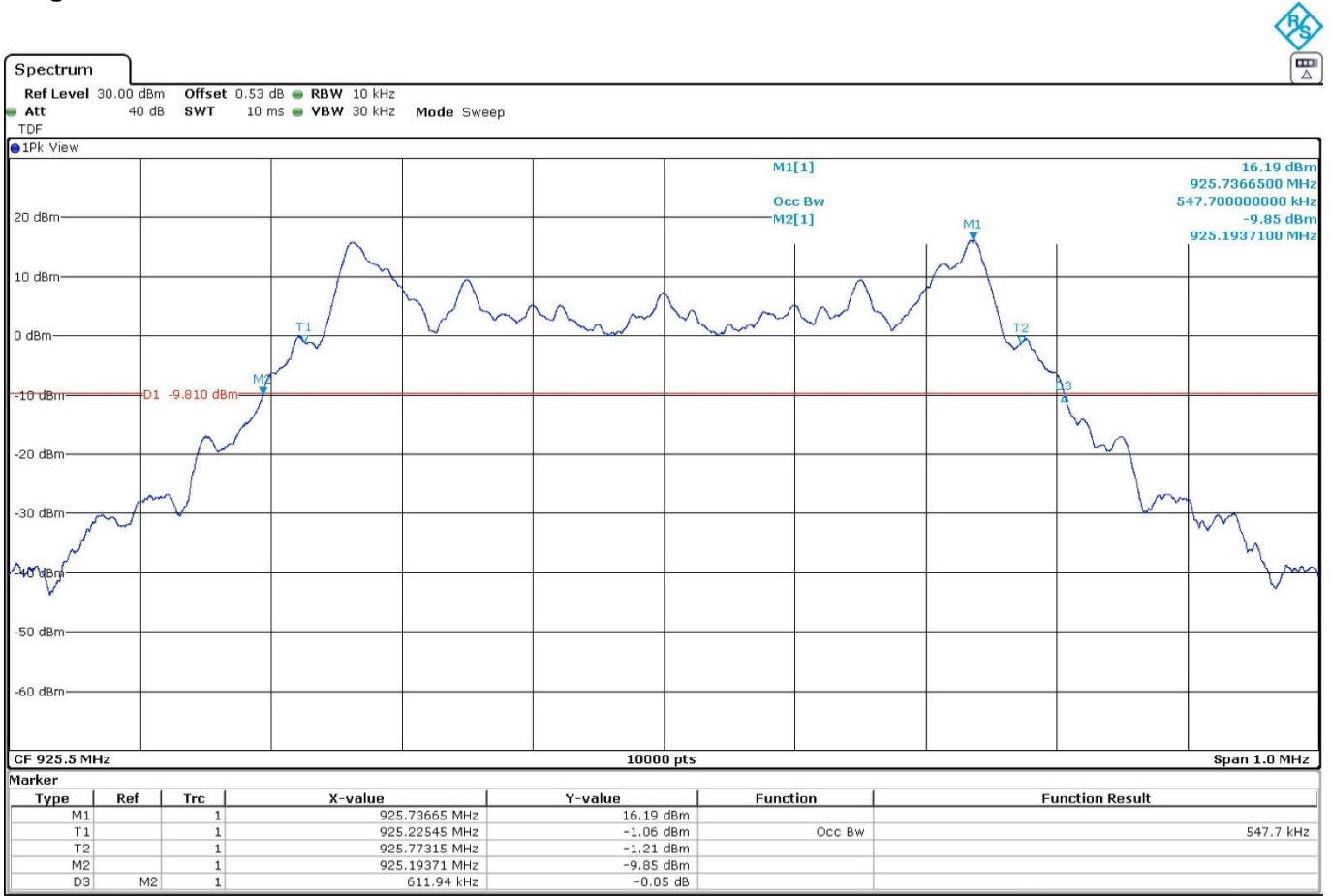
Images:





Frequency MHz = 925.5; Equipment Type = Digital Transmission System (DTS); Modulation = 2GFSK.

Images:



## FCC 15.247 (a)(2) / RSS-247 5.2. (a) 6 dB Bandwidth

### Limits

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

Modulation: 2GFSK

### Results

Freq (MHz)	Ebw (kHz)
915.50	615.00
919.50	615.20
925.50	615.40

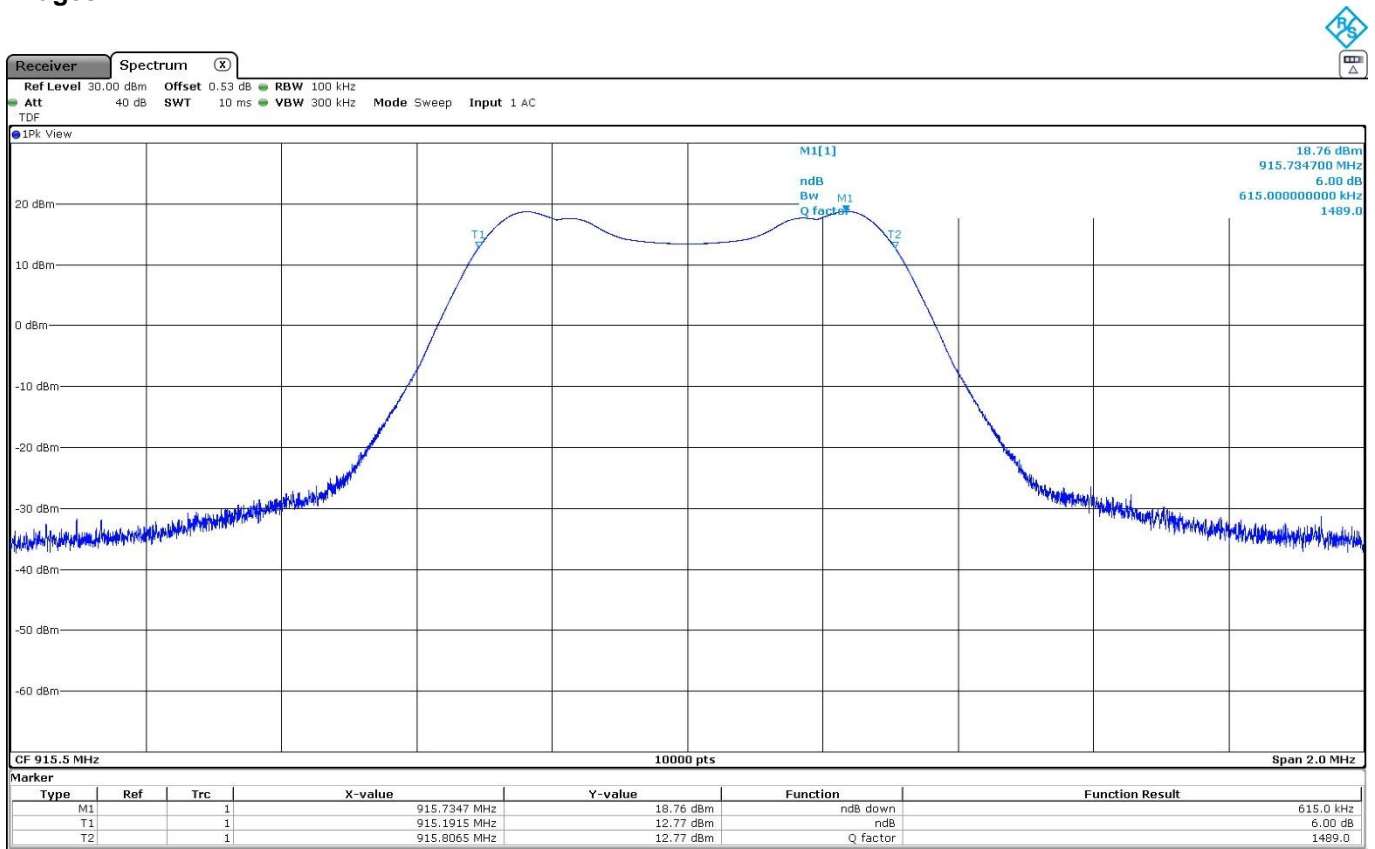
### Verdict

Pass

### Attachments

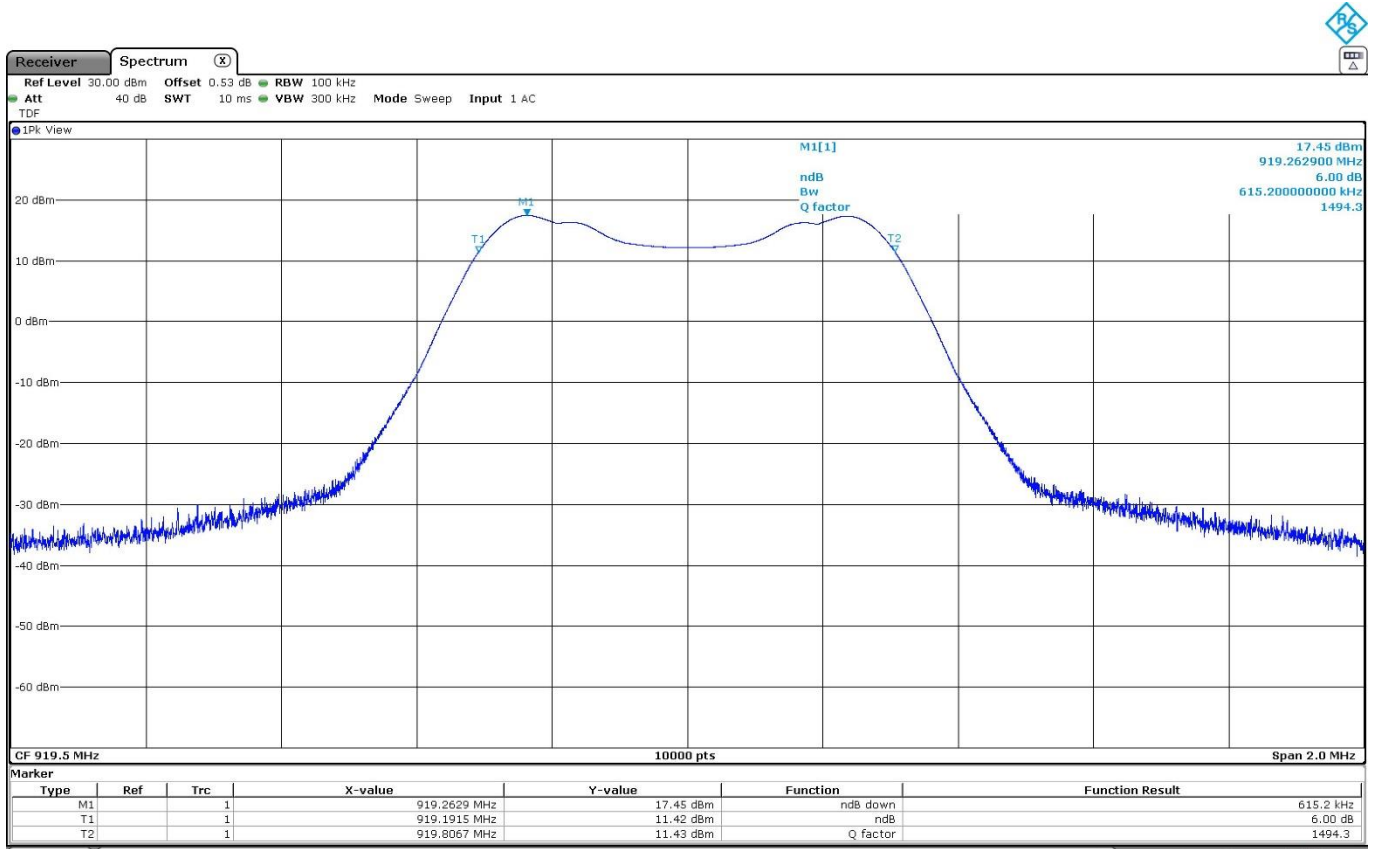
Frequency MHz = 915.5; Equipment Type = Digital Transmission System (DTS); Modulation = 2GFSK.

### Images:



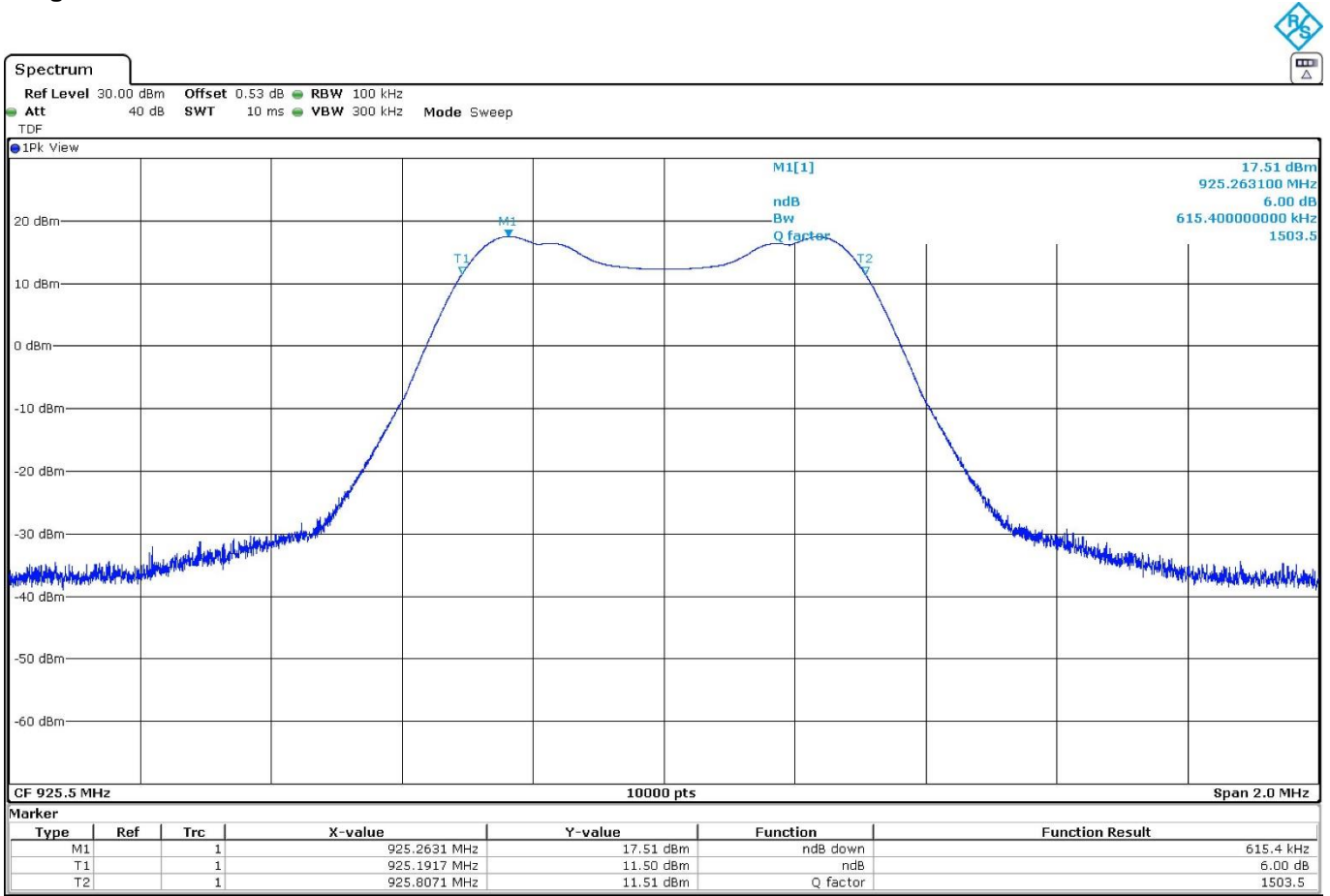
Frequency MHz = 919.5; Equipment Type = Digital Transmission System (DTS); Modulation = 2GFSK.

Images:



Frequency MHz = 925.5; Equipment Type = Digital Transmission System (DTS); Modulation = 2GFSK.

Images:



## FCC 15.247 (b) / RSS-247 5.4. (d) Maximum output power and antenna gain

### Limits

For systems using digital modulation in the 902-928 MHz band: 1 watt (30 dBm).

The e.i.r.p. shall not exceed 4 W (36 dBm) (Canada).

The maximum conducted output power was measured using the method according to point “11.9.2.2.2 Method AVGSA-1” 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: 0 dBi

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.

Modulation: 2GFSK

### Results

Freq (MHz)	Avg Power (dBm)	E.I.R.P. (dBm)
915.50	18.57	18.57
919.50	18.30	18.30
925.50	17.41	17.41

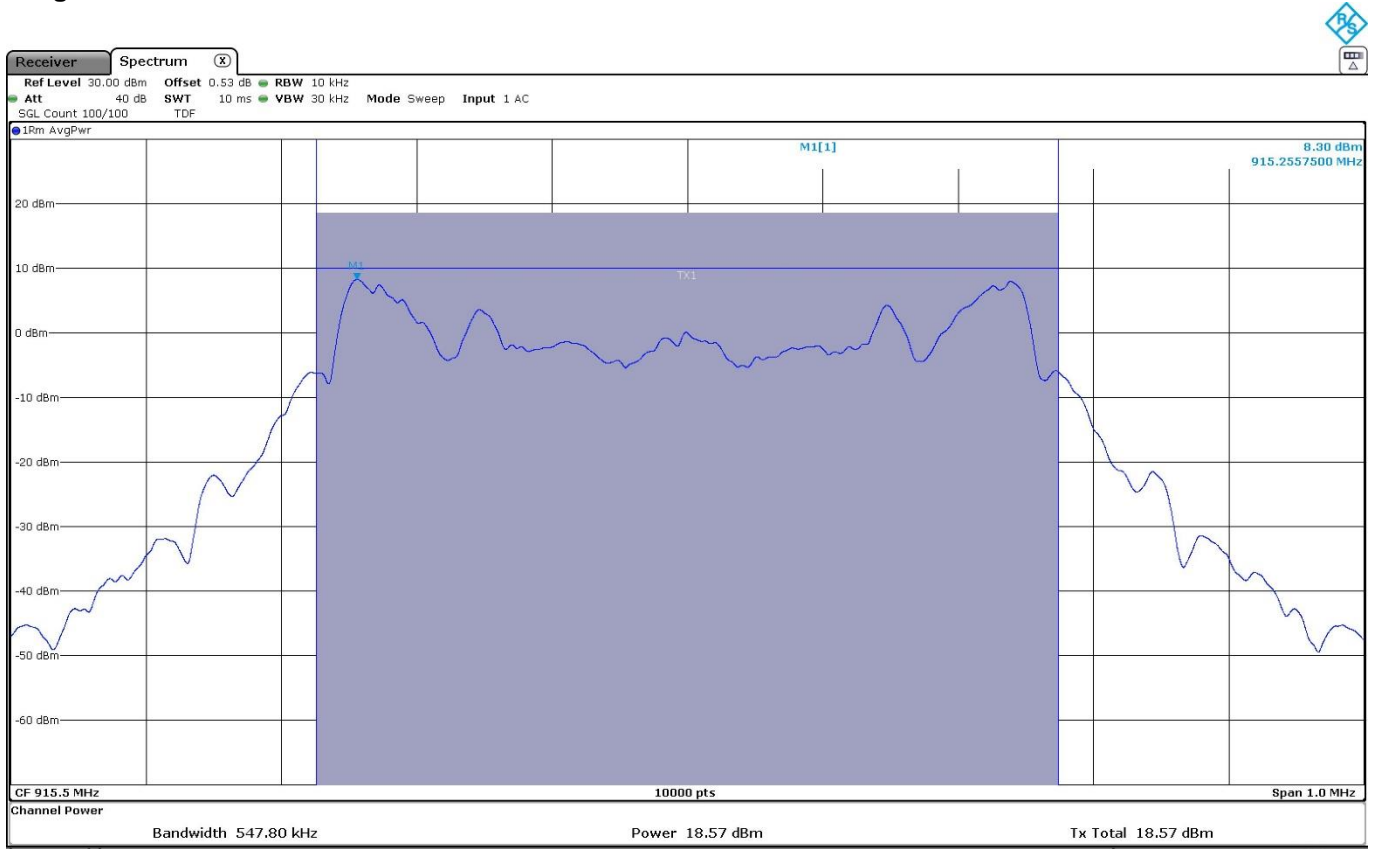
### Verdict

Pass

### Attachments

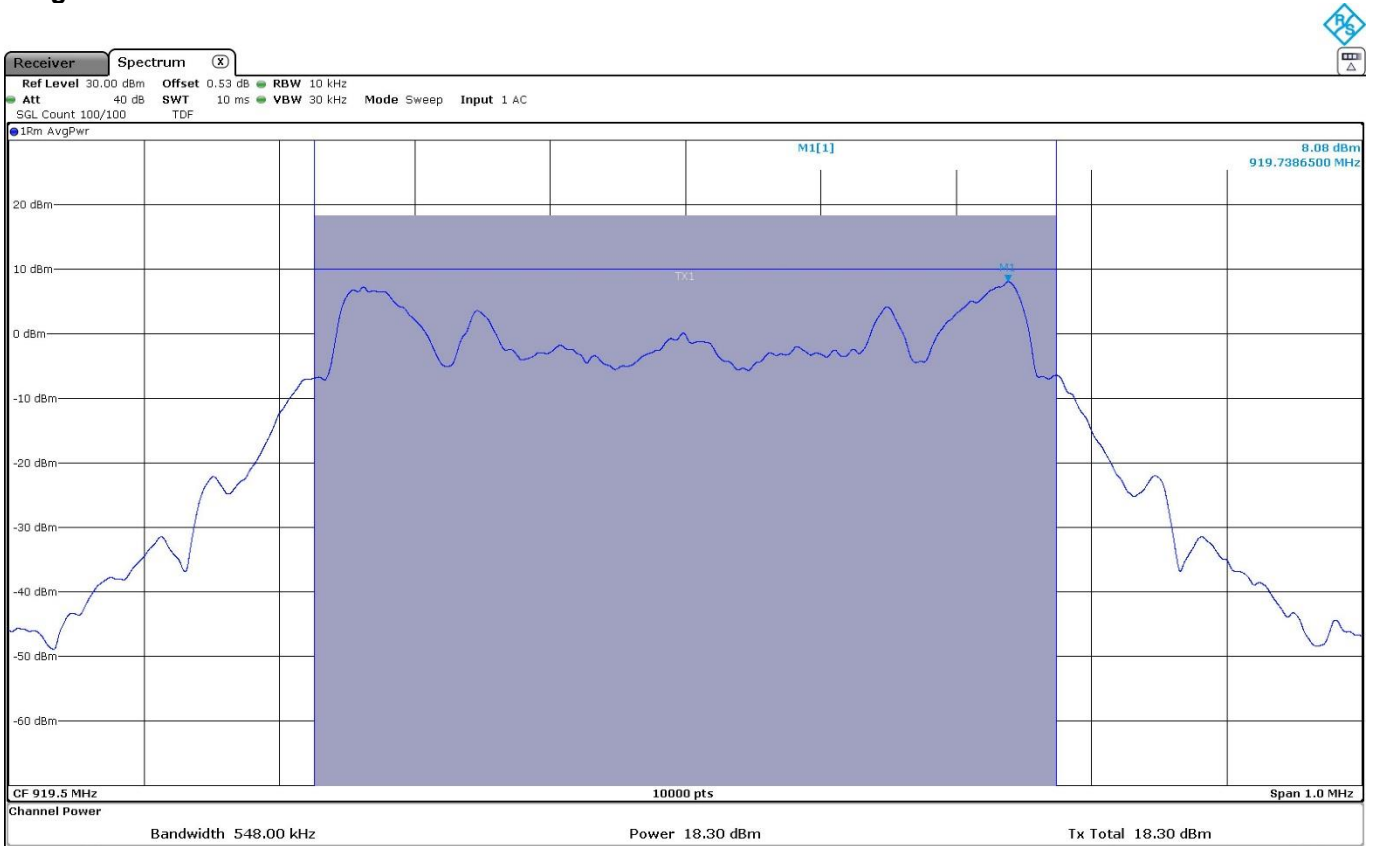
Frequency MHz = 915.5; Equipment Type = Digital Transmission System (DTS); Modulation = 2GFSK.

### Images:



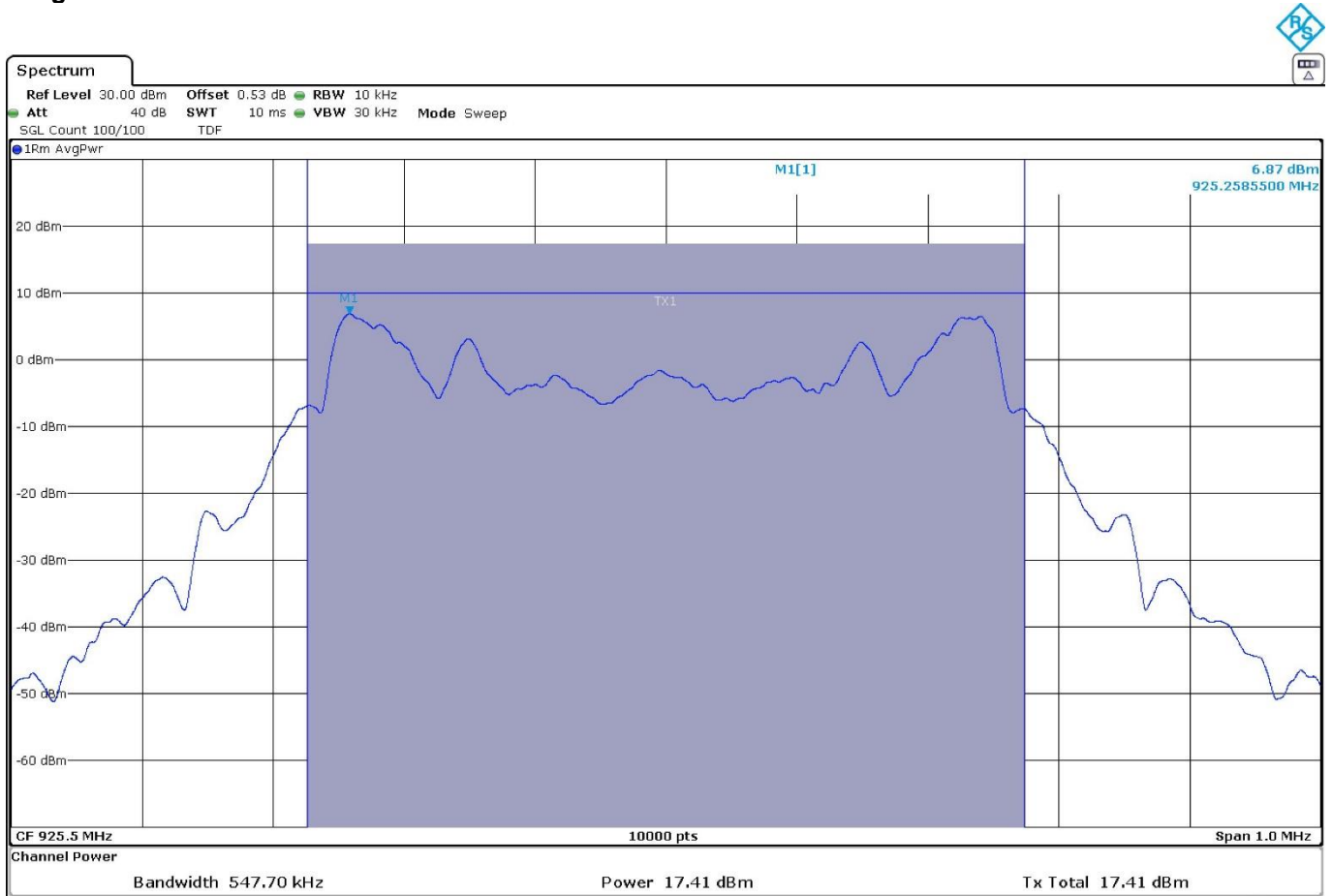
Frequency MHz = 919.5; Equipment Type = Digital Transmission System (DTS); Modulation = 2GFSK.

Images:



Frequency MHz = 925.5; Equipment Type = Digital Transmission System (DTS); Modulation = 2GFSK.

Images:





# FCC 15.247 (d) / RSS-247 5.5. Band-edge emissions compliance (Transmitter)

## Limits

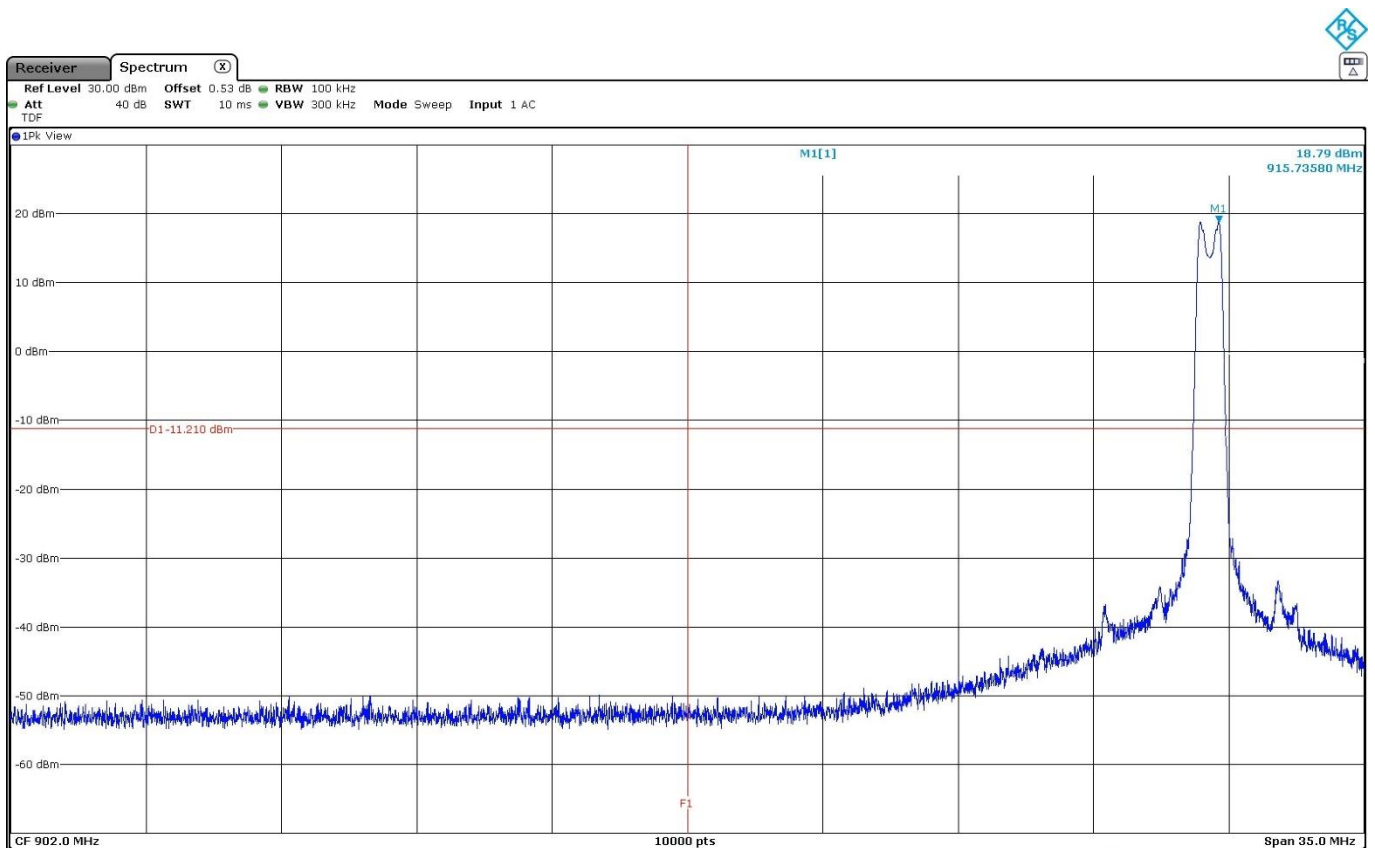
In any 100 kHz bandwidths outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, 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: 2GFSK

## Results

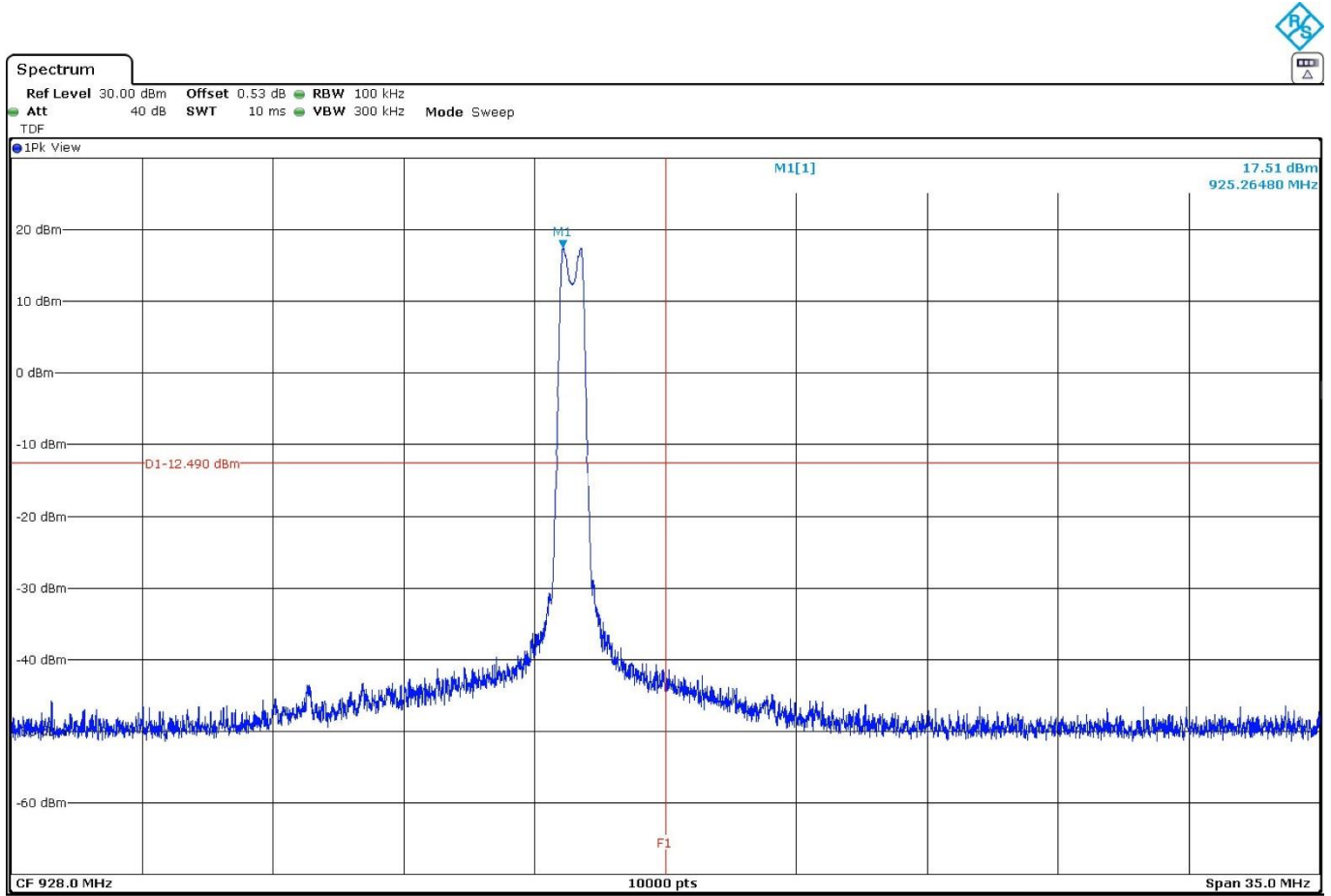
Frequency MHz = 915.5; Equipment Type = Digital Transmission System (DTS); Modulation = 2GFSK.

## Images:



Frequency MHz = 925.5; Equipment Type = Digital Transmission System (DTS); Modulation = 2GFSK.

Images:



Verdict

Pass

## FCC 15.247 (e) / RSS-247 5.2. (b) 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.

The power spectral density was measured using the method according to point 11.10.3 "Method AVGPSD-1" of ANSI C.63.10-2013.

Modulation: 2GFSK

### **Results**

Freq (MHz)	Avg PSD (dBm)
915.50	4.08
919.50	4.02
925.50	3.11

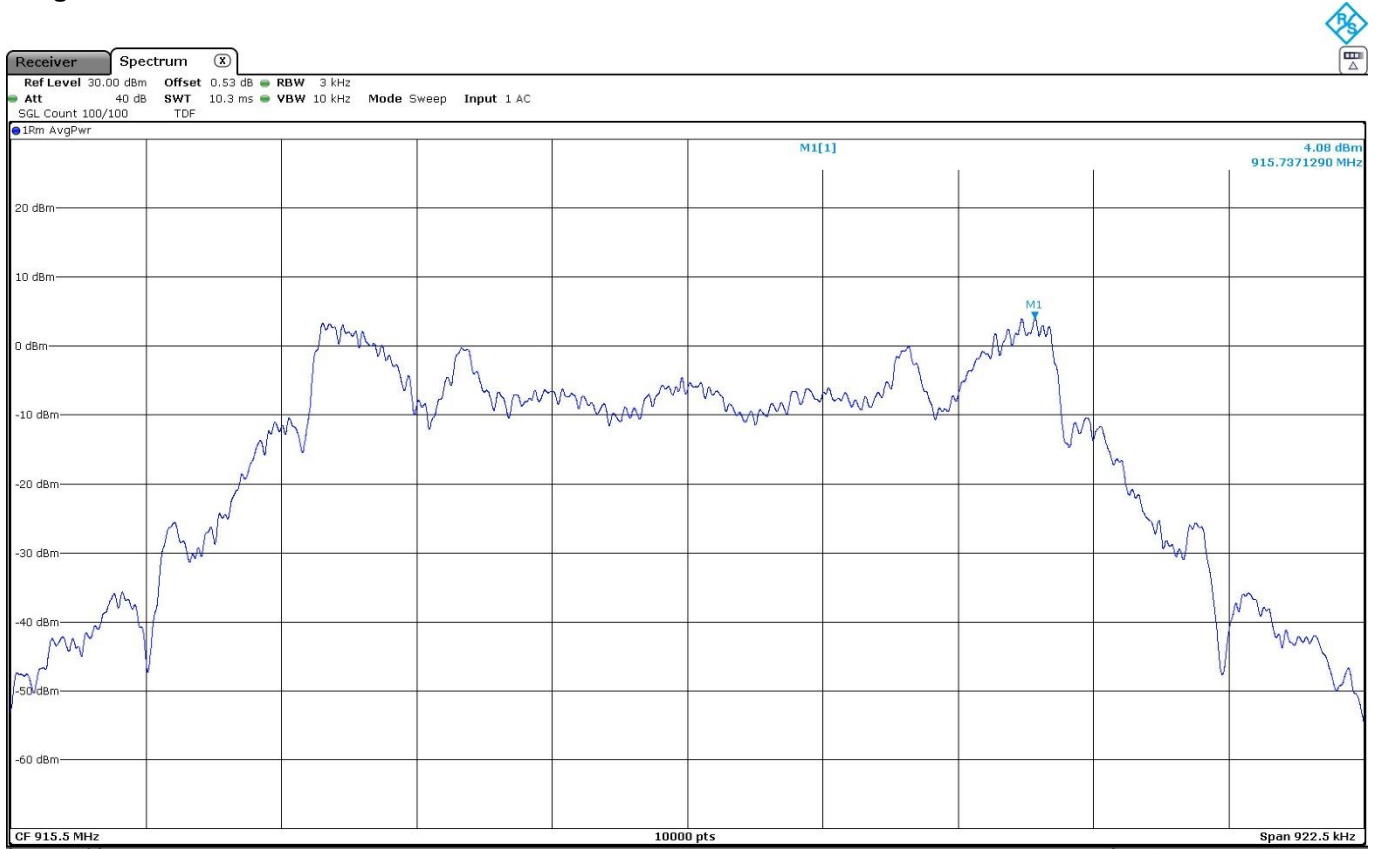
### **Verdict**

Pass

### Attachments

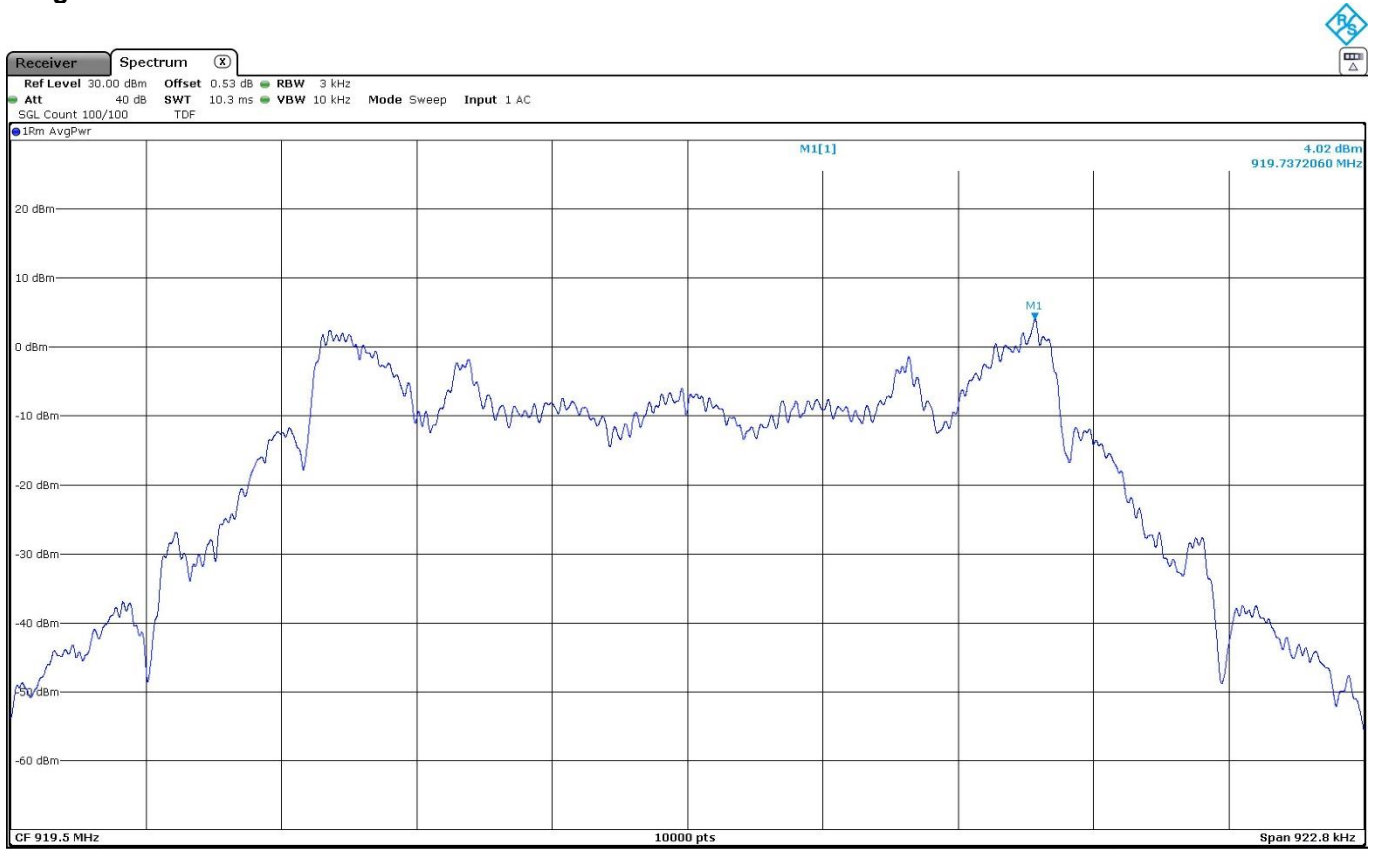
Frequency MHz = 915.5; Equipment Type = Digital Transmission System (DTS); Modulation = 2GFSK.

### Images:



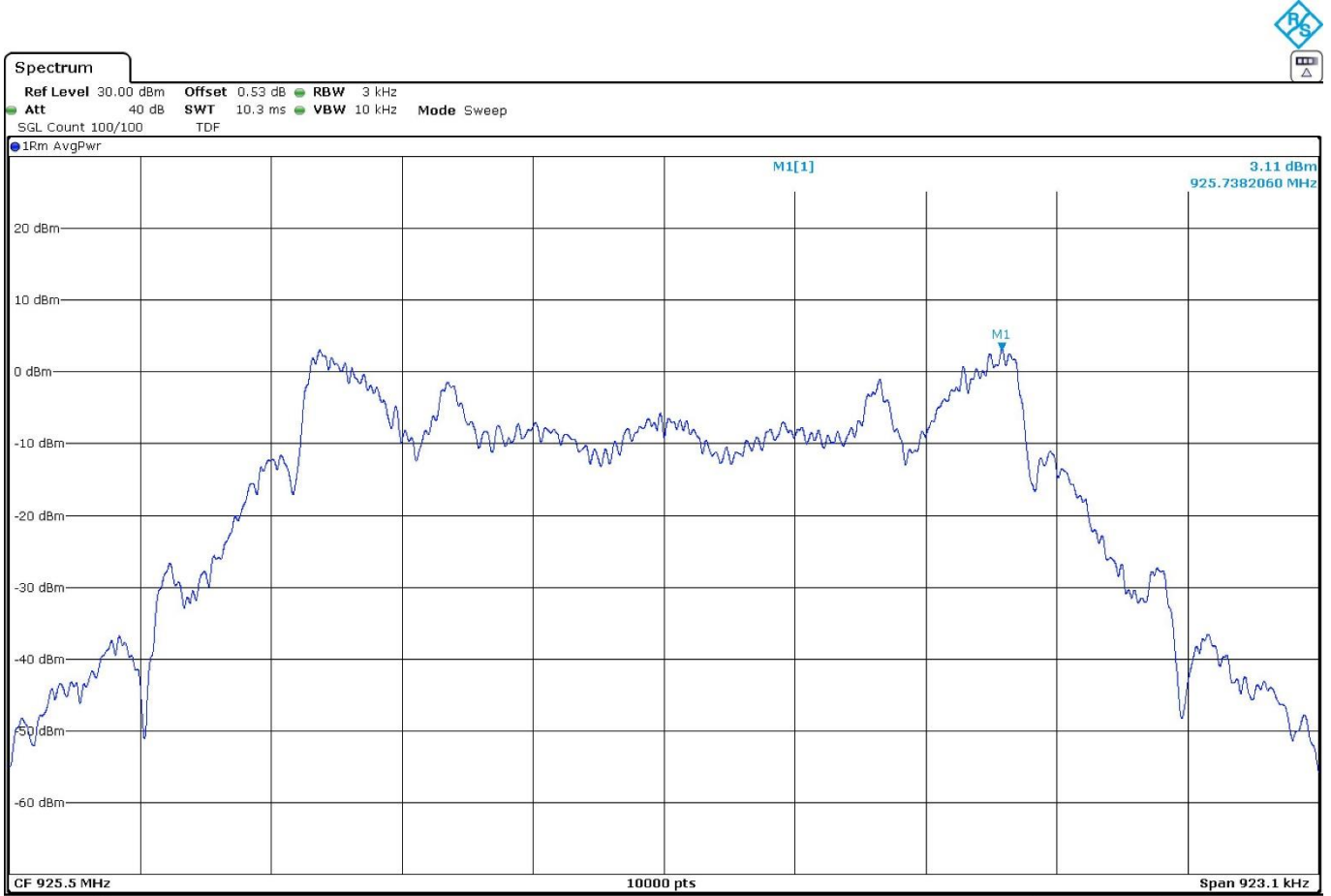
Frequency MHz = 919.5; Equipment Type = Digital Transmission System (DTS); Modulation = 2GFSK.

Images:



Frequency MHz = 925.5; Equipment Type = Digital Transmission System (DTS); Modulation = 2GFSK.

Images:



## RSS-247 5.5 / FCC 15.247 (d) 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 ( $\mu\text{V/m}$ )	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.

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

Modulation: 2GFSK

**Results**

Freq (MHz)	Freq Rng (GHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
915.50	[0.03, 1]	453.375	31.78	V	PK
			27.26		QP
	[3, 10]	3663.040	54.28		PK
			46.48		AVG
919.50	[0.03, 1]	453.102	32.34		PK
			26.80		QP
	[3, 10]	3677.180	54.03		PK
			47.01		AVG
925.50	[0.03, 1]	453.344	31.86	PK	
			26.99	QP	
	[3, 10]	3702.800	49.30	PK	

**Verdict**

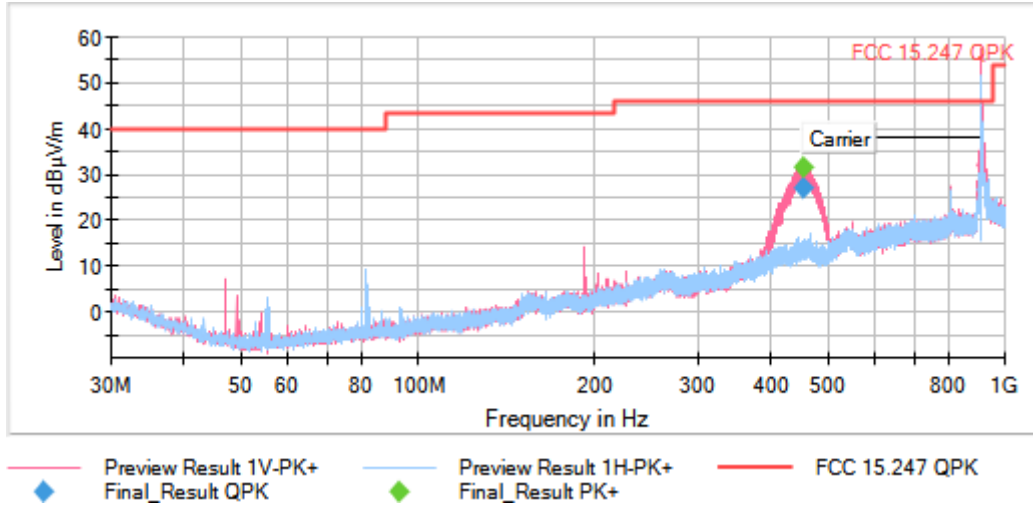
Pass



**Attachments**

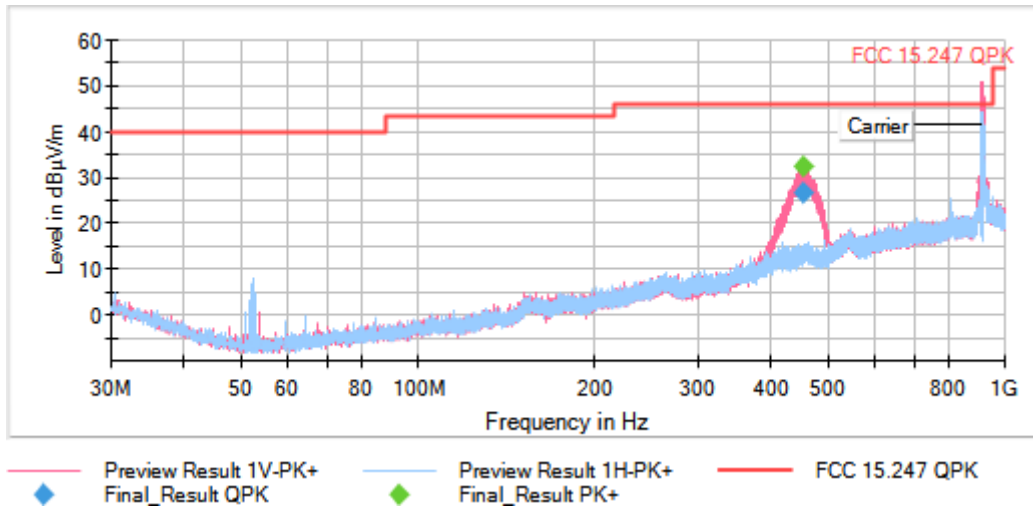
Frequency MHz = 915.50000      Equipment Type = Digital Transmission System (DTS)  
 Modulation = 2GFSK      Frequency Range GHz = [0.03, 1]  
 Number of Transmission Chains = 1      Measurement Point = 1  
 Active Port = 1

**Images:**



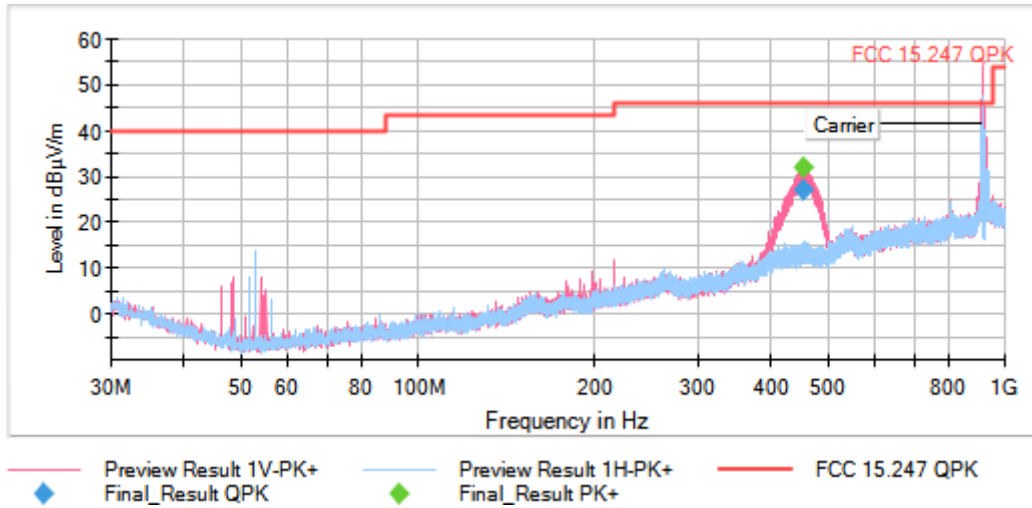
Frequency MHz = 919.50000      Equipment Type = Digital Transmission System (DTS)  
 Modulation = 2GFSK      Frequency Range GHz = [0.03, 1]  
 Number of Transmission Chains = 1      Measurement Point = 1  
 Active Port = 1

**Images:**



Frequency MHz = 925.50000      Equipment Type = Digital Transmission System (DTS)  
 Modulation = 2GFSK      Frequency Range GHz = [0.03, 1]  
 Number of Transmission Chains = 1      Measurement Point = 1  
 Active Port = 1

**Images:**



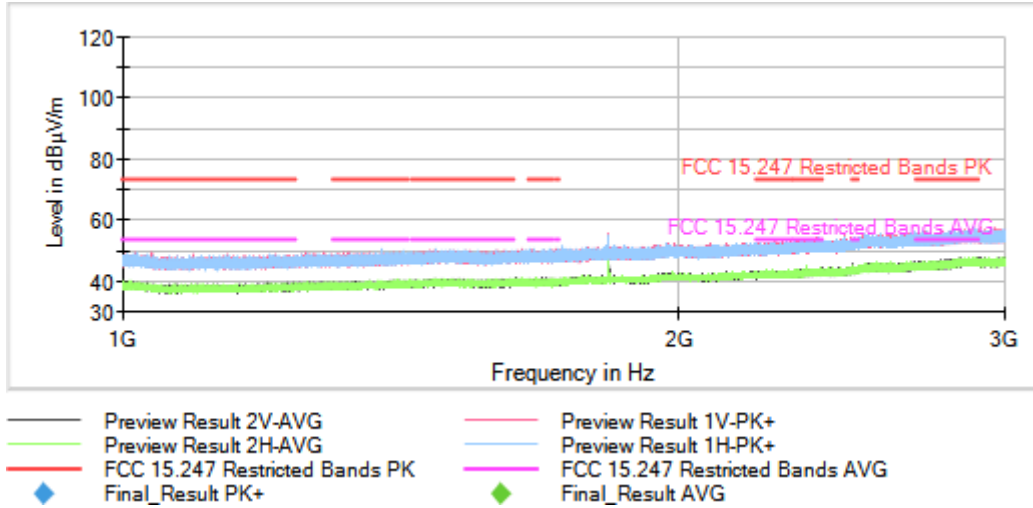
**Tables:**

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

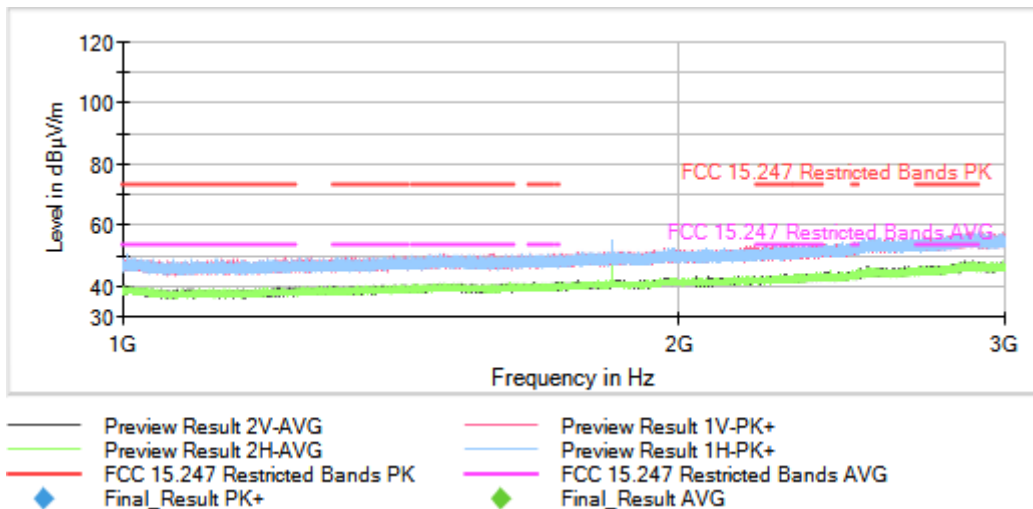
Frequency MHz = 915.50000      Equipment Type = Digital Transmission System (DTS)  
 Modulation = 2GFSK      Frequency Range GHz = [1, 3]  
 Number of Transmission Chains = 1      Measurement Point = 1  
 Active Port = 1

**Images:**



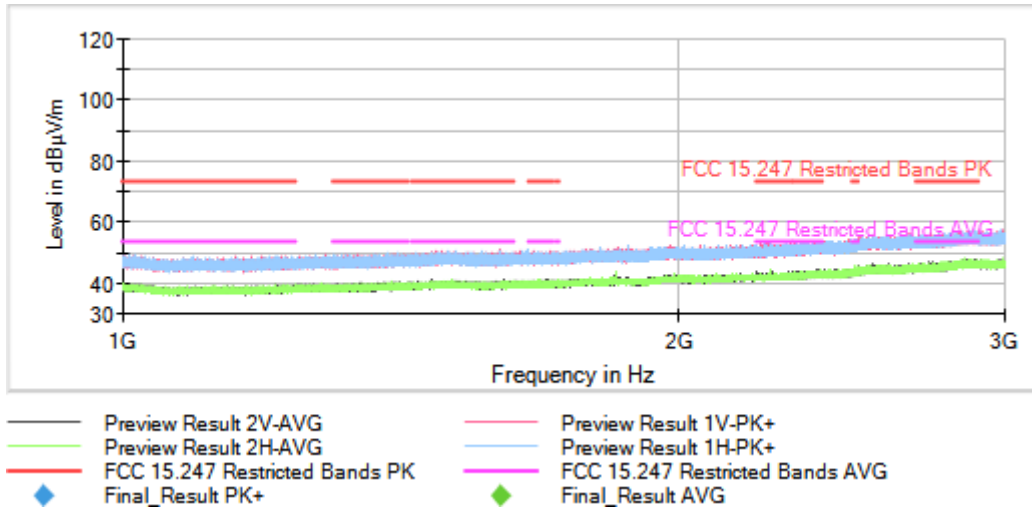
Frequency MHz = 919.50000      Equipment Type = Digital Transmission System (DTS)  
 Modulation = 2GFSK      Frequency Range GHz = [1, 3]  
 Number of Transmission Chains = 1      Measurement Point = 1  
 Active Port = 1

**Images:**



Frequency MHz = 925.50000      Equipment Type = Digital Transmission System (DTS)  
 Modulation = 2GFSK      Frequency Range GHz = [1, 3]  
 Number of Transmission Chains = 1      Measurement Point = 1  
 Active Port = 1

**Images:**



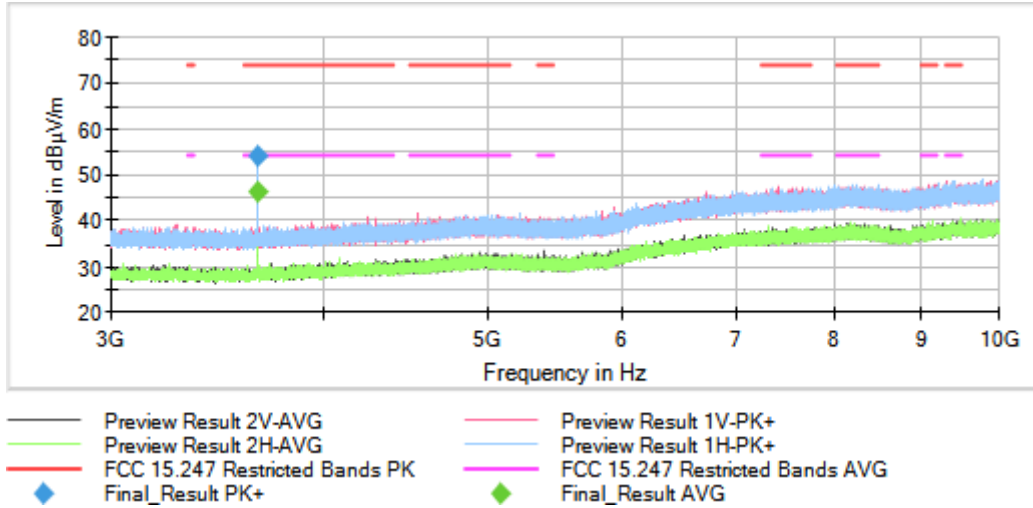
**Tables:**

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

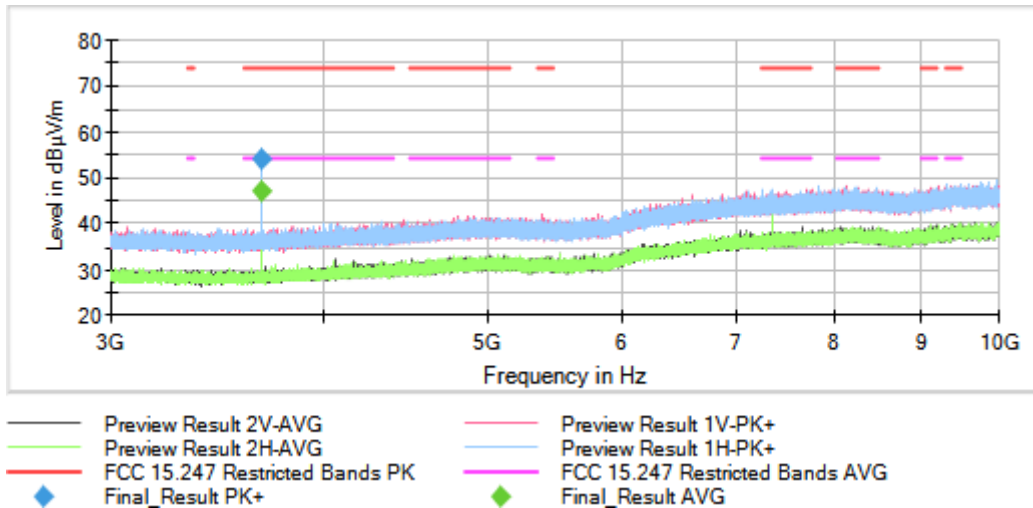
Frequency MHz = 915.50000      Equipment Type = Digital Transmission System (DTS)  
 Modulation = 2GFSK      Frequency Range GHz = [3, 10]  
 Number of Transmission Chains = 1      Measurement Point = 1  
 Active Port = 1

**Images:**



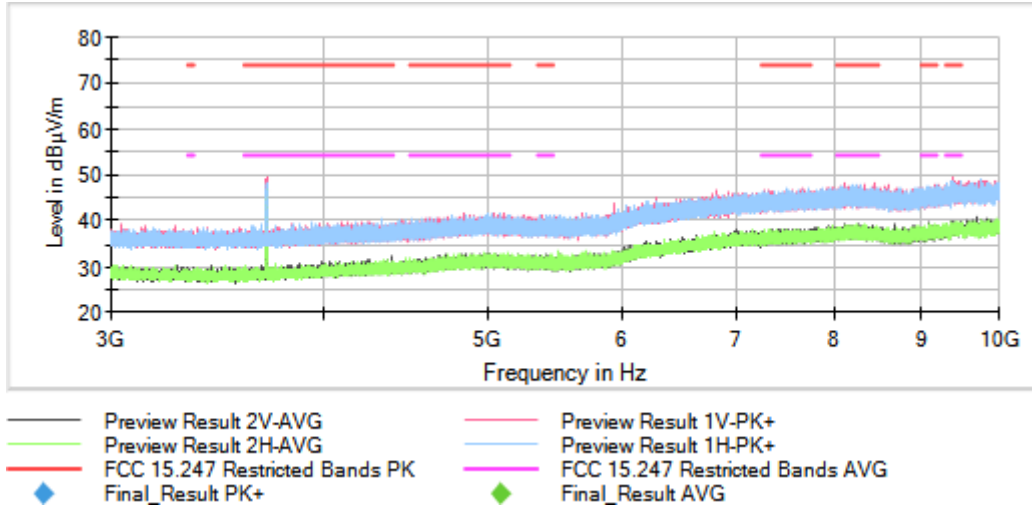
Frequency MHz = 919.50000      Equipment Type = Digital Transmission System (DTS)  
 Modulation = 2GFSK      Frequency Range GHz = [3, 10]  
 Number of Transmission Chains = 1      Measurement Point = 1  
 Active Port = 1

**Images:**



Frequency MHz = 925.50000      Equipment Type = Digital Transmission System (DTS)  
 Modulation = 2GFSK      Frequency Range GHz = [3, 10]  
 Number of Transmission Chains = 1      Measurement Point = 1  
 Active Port = 1

**Images:**



**Tables:**

Spectrum Analyzer Parameters

	Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
	Receiver: [ESW 44]					
	3 GHz - 10 GHz	140 kHz	PK+ ; AVG	1 MHz	1 s	30 dB