DEKRA Certification, Inc.
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DEKRA

Test Lab
Cert 2764.01

FCC LISTED, REGISTRATION NUMBER: 2764.01

ISED LISTED REGISTRATION NUMBER: 23595-1

Test report No:

NIE: 2125ERM.006A1

Test report

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

Radio Frequency Devices. Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz.
Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices.
General Requirements and Information for the Certification of Radio Apparatus.

Identification of item tested.....:	Wave Plus
Trademark .....:	AIRTHINGS AS
Model and /or type reference .....:	2930
Other identification of the product .....:	FCC ID:2APPT-2930 IC : 23900-2930
Final HW version .....:	---
Final SW version .....:	---
Features.....:	Short Range Device
Manufacturer.....:	AIRTHINGS AS Wergelandsveien 7 Oslo Norway 0167
Test method requested, standard……..:	USA FCC Part 15.247, 10-1-17 Edition: Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz. CANADA RSS-247 Issue 2 (February 2017). CANADA RSS-Gen Issue 4 (November 2014). Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 558074 D01 DTS Meas Guidance v04 dated 05/04/2017. ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Summary .....:	IN COMPLIANCE
Approved by (name / position & signature) .....:	Domingo Galvez EMC & RF Lab. Manager Digitally signed by Domingo Galvez DN: cn=Domingo Galvez, o=DEKRA, ou=EMC-RF Lab Manager, email=domingo.galvez@dekra.com, c=US Date: 2018.07.21 13:03:52 -04'00'
Date of issue.....:	07/19/2018
Report template No.....:	FDT08_20

Index

Competences and guarantees 3
General conditions 3
Uncertainty 3
Usage of samples 4
Test sample description 4
Identification of the client 4
Airthings AS 4
Testing period 4
Environmental conditions 5
Remarks and comments 6
Testing verdicts 7
Appendix A – Test result (SRD) 8

Competences and guarantees

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

DEKRA Certification Inc. is a laboratory with a measurement facility in compliance with the requirements of Section 2.948 of the FCC rules and has been added to the list of facilities whose measurements data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Registration Number: 2764.01.

DEKRA Certification Inc. is a laboratory with a measurement site in compliance with the requirements of RSS 212, Issue 1 (Provisional) and has been added to the list of filed sites of the Canadian Certification and Engineering Bureau. Reference File Number:23595-1.

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

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

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

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

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General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
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4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Certification Inc. and the Accreditation Bodies.

Uncertainty

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

Usage of samples

Samples undergoing test have been selected by: **the client**

Sample S/01 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
2125.009	Radon Sensor Prepared for RF Conducted SRD 915 MHz Testing	WAVE PLUS	Prototype: CERT #9	05/07/2018
2125.009	TI Launchpad for UART Communication and with special Firmware.	H51	A6E337862	05/07/2018

1. Sample S/01 has undergone following test(s).

   All Conducted tests indicated in appendix A.

Sample S/02 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
2125.007	Radon Sensor Prepared for RF Radiated SRD 915MHz Testing	WAVE PLUS	Prototype: CERT #7	05/07/2018
2125.009	TI Launchpad for UART Communication and with special Firmware.	H51	A6E337862	05/07/2018

1. Sample S/02 has undergone following test(s).

   All Radiated tests indicated in appendix A.

Test sample description

Battery Operated wireless Sensor operating in SRD 915MHz.

Identification of the client

Airthings AS

Wergelandsveien 7 Oslo Norway 0167

Testing period

The performed test started on 05/23/2018 and finished on 05/31/2018.

The tests have been performed at DEKRA Certification, Inc.

Environmental conditions

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

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

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

Temperature	Min. = 15 ºC Max. = 35 ºC
Relative humidity	Min. = 20 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

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

Temperature	Min. = 15 ºC Max. = 35 ºC
Relative humidity	Min. = 20 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Modifications to the reference test report

It was introduced the following modifications in respect to the test report number 2125ERM.006 related with the same samples, in the next clauses and sub-clauses:

Clauses / Sub-clauses	Modification	Justification
Appendix A/ Test Section 15.247 Subclause (d) / RSS-247 5.5. Emission limitations radiated (Transmitter)	Footnotes were added to Frequency range 1 GHz-25 GHz result table	To clarify the applicable limit in frequencies outside of restricted bands

This modification test report cancels and replaces the test report 2125ERM.006.

Remarks and comments

1; The tests have been performed by the technical personnel: Divya Adusumilli, Koji Nishimoto and Victor Acedo Rubio.

2: Used instrumentation:

Conducted Measurements

Test system Rohde & Schwarz TS 8997:

No.	Description	Last Cal. Date	Cal. Due date
1.	Signal analyzer Rohde & Schwarz FSV40	2017/03	2019/03
2.	Switch unit Rohde & Schwarz with power detector OSP120 / OSP-B157	2017/03	2019/03
3.	RF generator Rohde & Schwarz SMB100A	2017/04	2019/04
4.	RF generator Rohde & Schwarz SMBV100A	2018/01	2019/01
5.	Climatic chamber Espec	2017/12	2018/12

Radiated Measurements

No.	Description	Last Cal. date	Cal. due date
1.	Semi anechoic Absorber Lined Chamber Frankonia SAC 3 plus “L”	N/A	N/A
2.	BiconicalLog antenna ETS LINDGREN 3142E	2017/03	2020/03
3.	Double-ridge Waveguide Horn antenna 1-18 GHz	2017/03	2019/03
4.	Double-ridge Horn Antenna 10 – 40 GHz	2016/12	2018/12
5.	Spectrum analyzer Rohde & Schwarz FSV40	2017/03	2019/03
6.	RF pre-amplifier 30 MHz-6 GHz Bonn Elektronik BLMA 0360-01N	2017/05	2019/05
7.	RF pre-amplifier 1-18 GHz Bonn Elektronik BLMA 0118-2A	2017/05	2019/05
8.	RF Pre-amplifier 18-40 GHz Bonn Elekronik BLMA1840-1M	2017/05	2019/05
9.	Rohde & Schwarz EMC32 software	N/A	N/A

Testing verdicts

Not applicable ..... :	N/A
Pass ..... :	P
Fail ..... :	F
Not measured ..... :	N/M

1. SRD 915 MHz

FCC PART 15 PARAGRAPH / RSS-247		VERDICT			
		NA	P	F	NM
FCC 15.247 Subclause (a) (1) / RSS-247 Clause 5.1 (b)	20 dB Bandwidth and Carrier frequency separation		P		
FCC 15.247 Subclause (a)(1)(i) / RSS-247 Clause 5.1 (c)	Number of hopping channels		P		
FCC 15.247 Subclause (a)(1)(i) / RSS-247 Clause 5.1 (c)	Time of occupancy (Dwell Time)		P		
FCC 15.247 Subclause (b)(2) / RSS-247 Clause 5.4 (a)	Maximum peak output power and antenna gain		P		
FCC 15.247 Subclause (d) / RSS-247 Clause 5.5	Band-edge compliance of conducted emissions (Transmitter)		P		
FCC 15.247 Subclause (d) / RSS-247 Clause 5.5	Emission limitations conducted (Transmitter)		P		
FCC 15.247 Subclause (d) / RSS-247 Clause 5.5	Emission limitations radiated (Transmitter)		P		

Appendix A – Test result (SRD)

INDEX

TEST CONDITIONS 09

FCC Section 15.247 Subclause (a) (1) / RSS-247 Clause 5.1 (b). 20 dB Bandwidth and Carrier frequency separation.....12

FCC Section 15.247 Subclause (a) (1) (i) / RSS-247 Clause 5.1 (c). Number of hopping channels 15

FCC Section 15.247 Subclause (a) (1) (i) / RSS-247 Clause 5.1 (c). Time of occupancy (Dwell Time) 16

FCC Section 15.247 Subclause (b) (2) / RSS-247 Clause 5.4 (a). Maximum peak output power and antenna gain.....17

FCC Section 15.247 Subclause (d) / RSS-247 Clause 5.5. Band-edge compliance of conducted emissions (Transmitter).....20

FCC Section 15.247 Subclause (d)) RSS-247 Clause 5.5. Emission limitations conducted (Transmitter) 23

FCC Section 15.247 Subclause (d)) RSS-247 Clause 5.5. Emission limitations radiated (Transmitter).....26

TEST CONDITIONS

Power supply (V):

$V_{nominal}$ = 3 Vdc

Type of power supply = DC voltage from internal battery.

Type of antenna = Integral antenna

Declared Gain for antenna (maximum) = + 5 dBi

Temperature (ºC):

T_n = +15 to +35

T_{min} = 4 (*)

T_{max} = +40 (*)

The subscript n indicates normal test conditions.

The subscripts min and max indicates extreme test conditions (minimum and maximum respectively).

(*): Declared by applicant.

TEST FREQUENCIES:

Lowest channel: 905 MHz

Middle channel: 915 MHz

Highest channel: 926 MHz

CONDUCTED MEASUREMENTS

The equipment under test was set up in a shielded room and it is directly connected to the Test System TS8997.

RADIATED MEASUREMENTS

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at a distance of 3 m for the frequency range 30 MHz-1000 MHz (30 MHz-1000 MHz Bilog antenna) and at a distance of 1m for the frequency range 1 GHz-25 GHz (1 GHz-18 GHz Double ridge horn antenna and 18 GHz-40 GHz horn antenna).

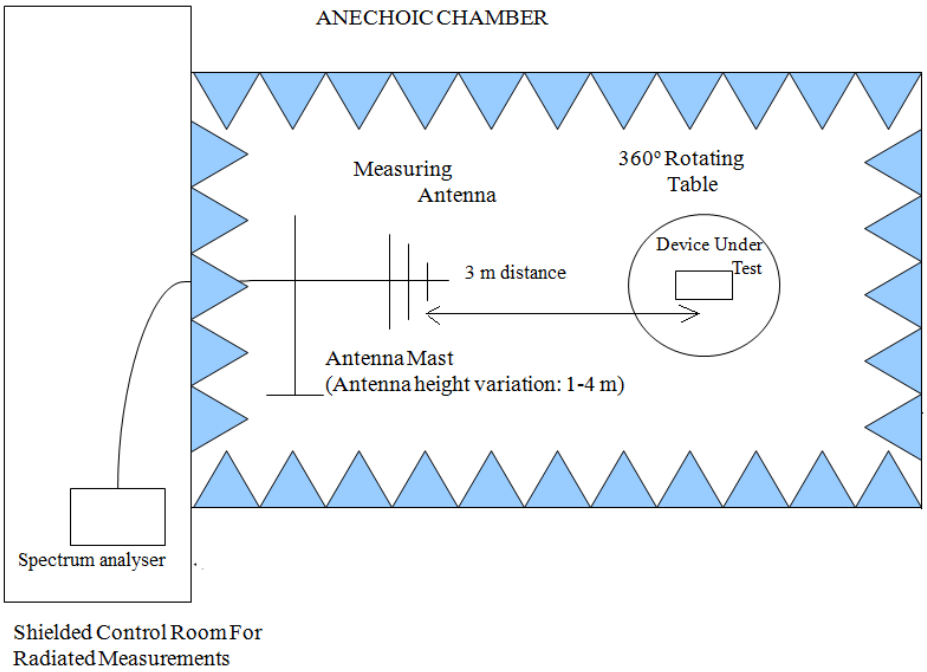
For radiated emissions in the range 1 GHz-25 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

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 360º and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

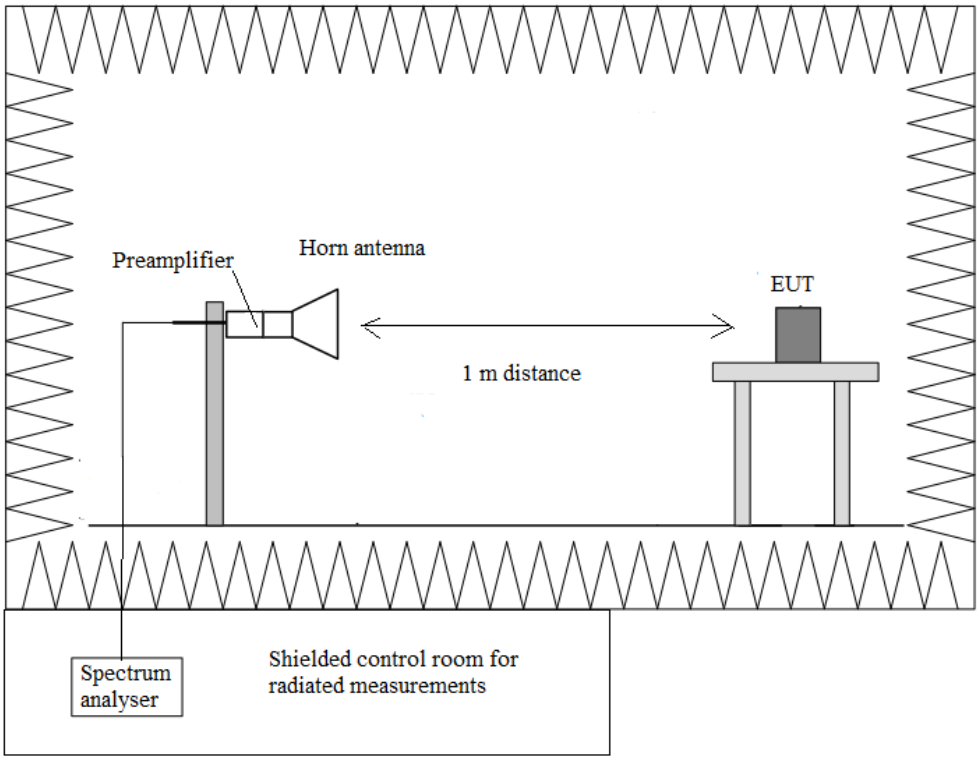
Measurements were made in both horizontal and vertical planes of polarization.

The test was performed with the equipment transmitting first with only the SRD radio and repeated with BTLE radio transmitting simultaneously to check the impact of the co-location of the other radio interfaces. The results and plots below show the worst results obtained.

Radiated measurements setup f < 1 GHz



Radiated measurements setup f > 1 GHz



FCC Section 15.247 Subclause (a) (1) / RSS-247 Clause 5.1 (b). 20 dB Bandwidth and Carrier frequency separation

SPECIFICATION

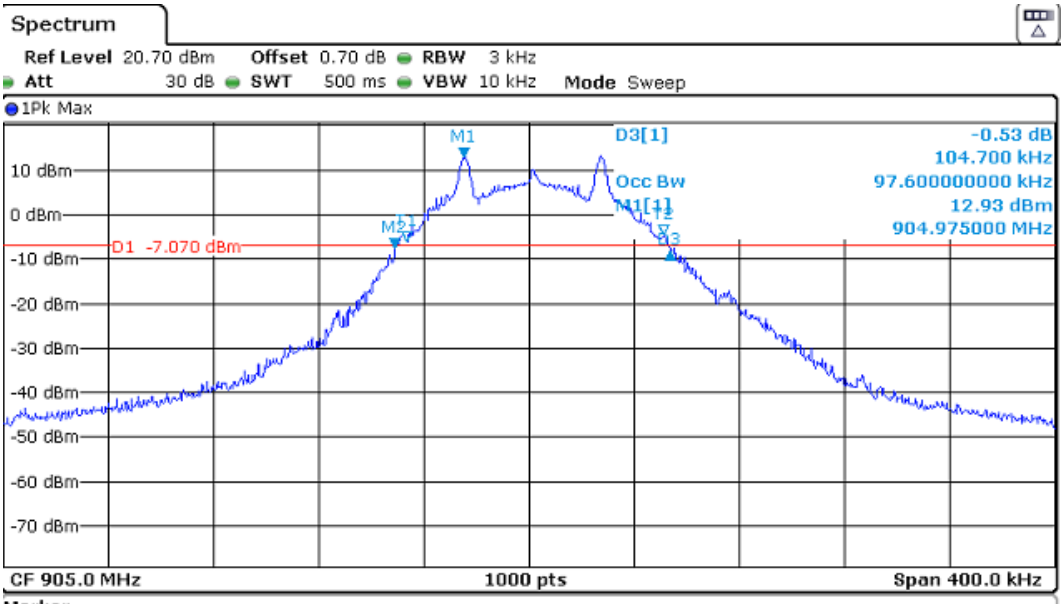
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater

RESULTS

(See next plots)

	Lowest frequency 905 MHz	Middle frequency 915 MHz	Highest frequency 926 MHz
20 dB Spectrum bandwidth (kHz)	104.7	102.8	102.8
Measurement uncertainty (kHz)	<±5.00		

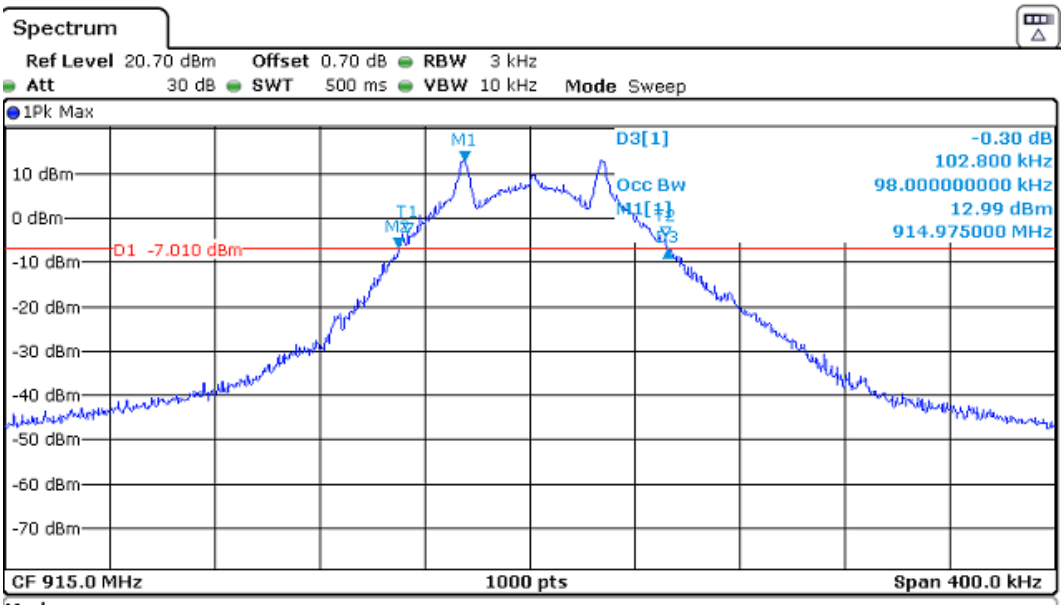
20 dB BANDWIDTH Lowest Channel: 905 MHz



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	904.975 MHz	12.93 dBm		
T1		1	904.9534 MHz	-5.92 dBm	Occ Bw	97.6 kHz
T2		1	905.051 MHz	-4.62 dBm		
M2		1	904.94915 MHz	-7.63 dBm		
D3	M2	1	104.7 kHz	-0.53 dB		

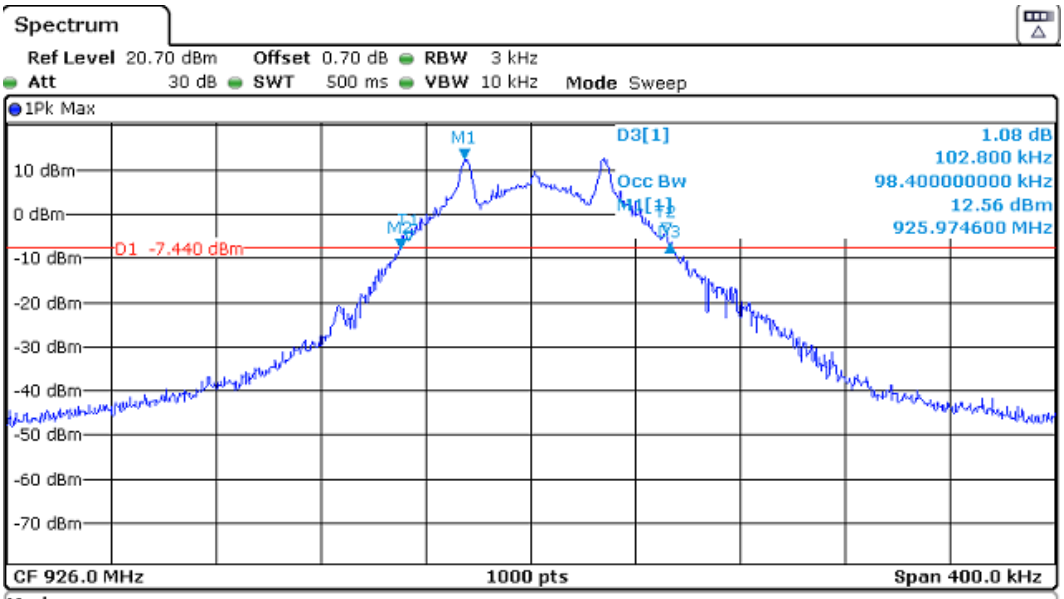
20 dB BANDWIDTH Middle Channel: 915 MHz



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	914.975 MHz	12.99 dBm		
T1		1	914.9534 MHz	-3.44 dBm	Occ Bw	98.0 kHz
T2		1	915.0514 MHz	-4.33 dBm		
M2		1	914.9498 MHz	-6.59 dBm		
D3	M2	1	102.8 kHz	-0.30 dB		

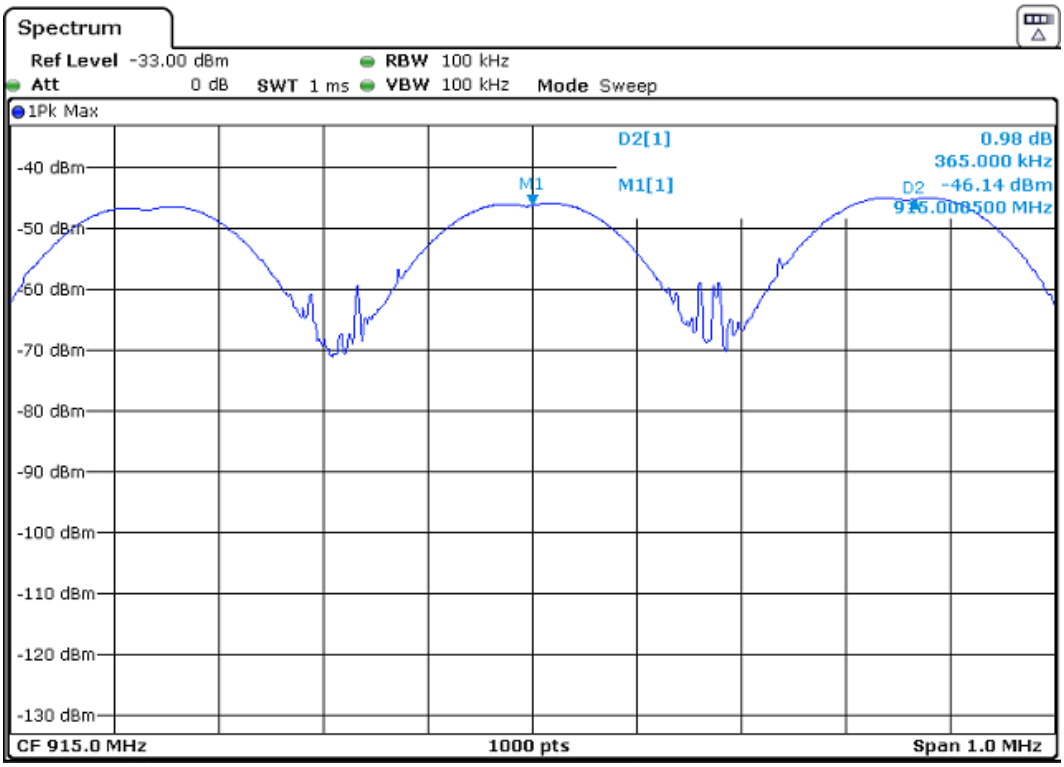
20 dB BANDWIDTH Highest Channel: 2475 MHz.



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	925.9746 MHz	12.56 dBm		
T1		1	925.9534 MHz	-5.89 dBm	Occ Bw	98.4 kHz
T2		1	926.0518 MHz	-4.18 dBm		
M2		1	925.9502 MHz	-7.74 dBm		
D3	M2	1	102.8 kHz	1.08 dB		

Carrier frequency separation



The hopping channel carrier frequencies are separated by a minimum of the of the 20 dB bandwidth of the hopping channel.

Verdict: PASS

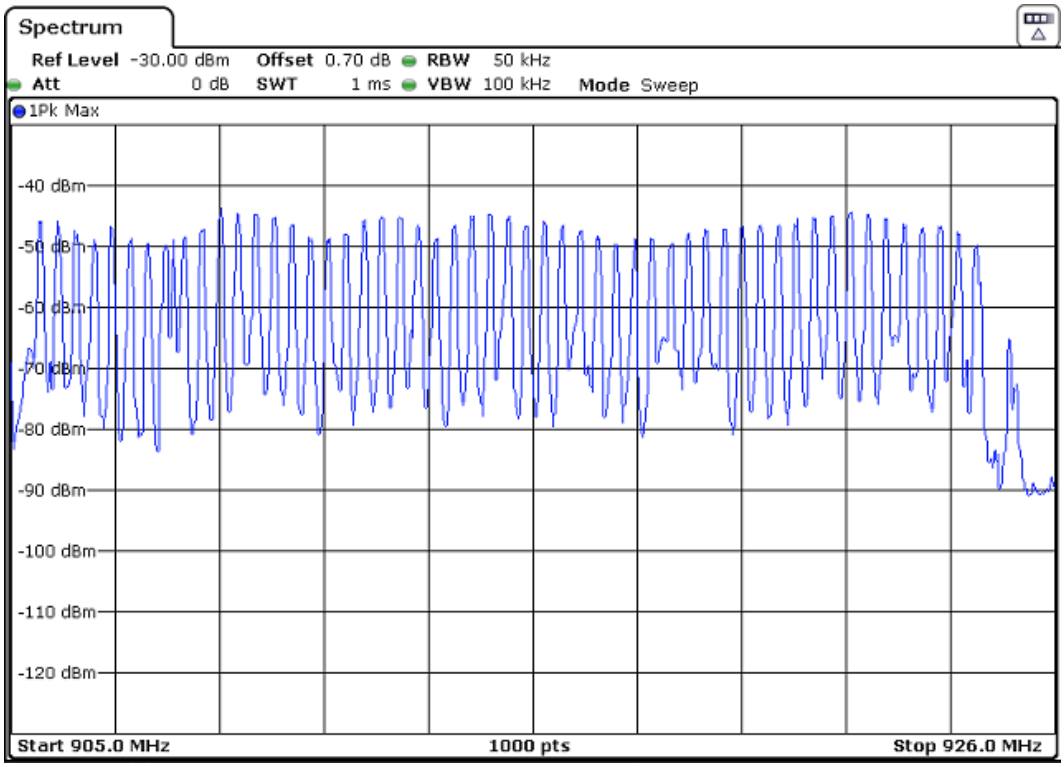
FCC Section 15.247 Subclause (a) (1) (i) / RSS-247 Clause 5.1 (c). Number of hopping channels

SPECIFICATION

Frequency hopping system in the 902-928 MHz band shall use at least 50 hopping frequencies.

RESULTS

The number of hopping channels is 53 (see next plot).



Number of hopping frequencies: 53

Verdict: PASS

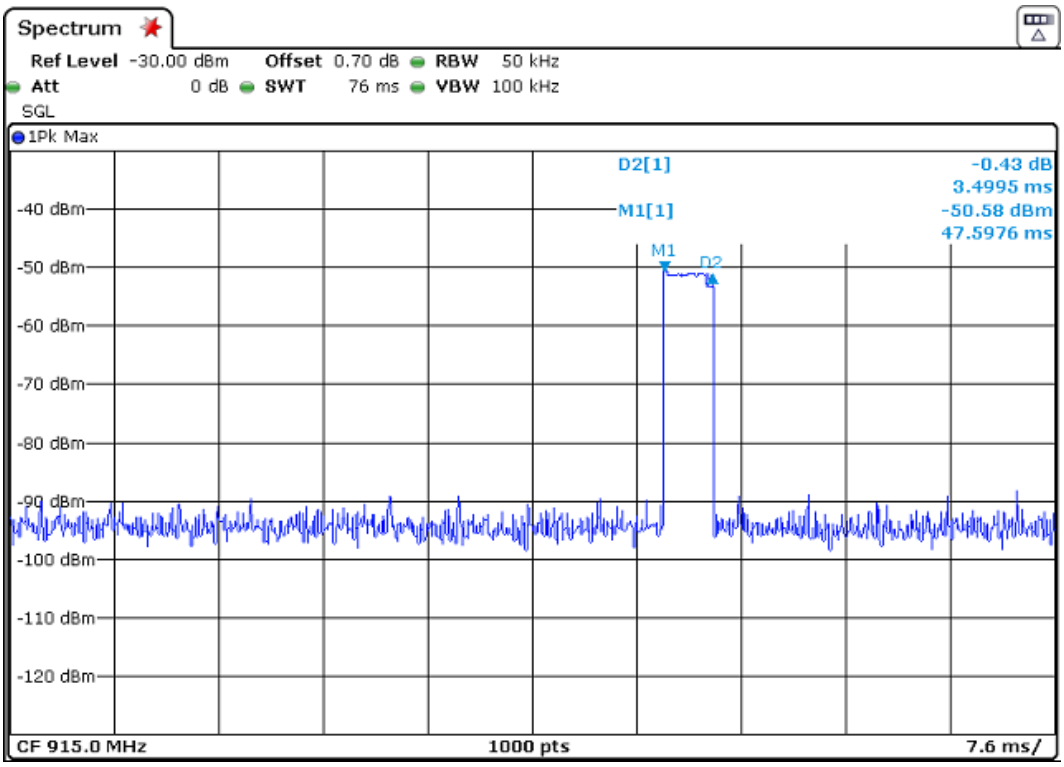
FCC Section 15.247 Subclause (a) (1) (i) / RSS-247 Clause 5.1 (c). Time of occupancy (Dwell Time)

SPECIFICATION

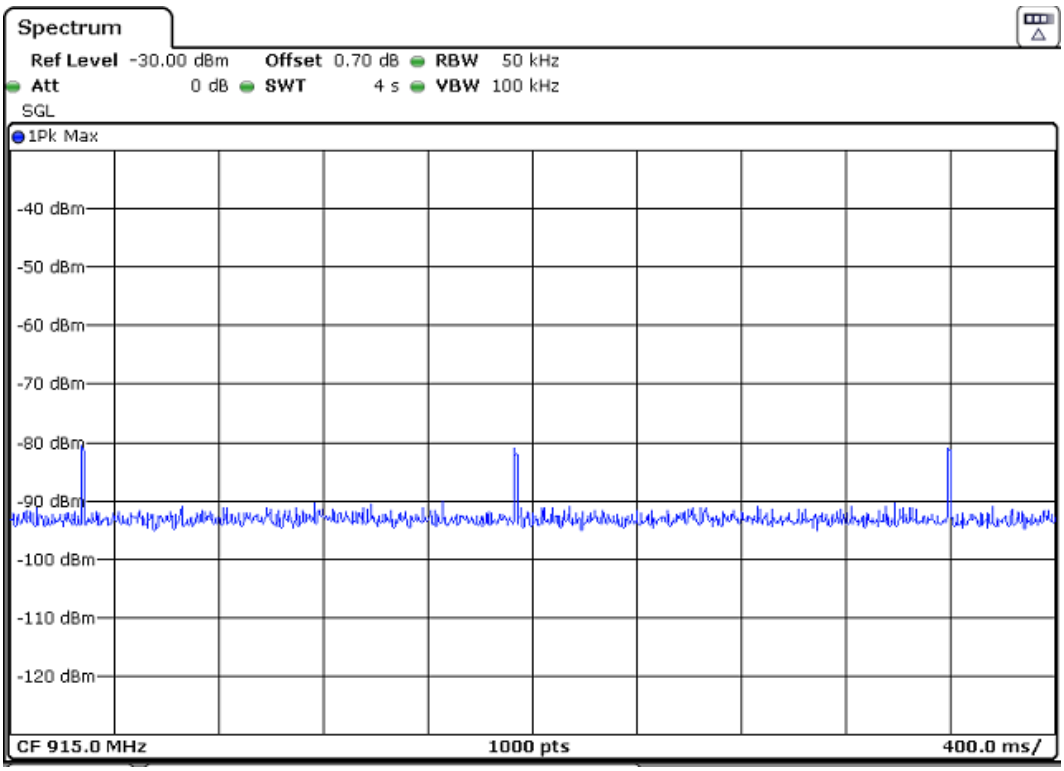
The average time of occupancy on any frequency shall not be greater than 0.4 seconds (400 ms) within 20 second period.

RESULTS

- Tx- time per hop = 3.5 ms (see next plot).



- Number of hops over a period of 4 seconds = 3 (see next plot).



Number of hops in the period specified in the requirements = (3 hops) x (21.2 s / 4 s) = 15.9 hops.

Averaging time of occupancy = 3.5 ms x 15.9 hops = 55.65 ms per 21.2second period (53 hopping frequencies).

Measurement uncertainty (%)	<±0.01

Verdict: PASS

Section 15.247 Subclause (b) (2) / RSS-247 5.4. (a). Maximum output power and antenna gain

SPECIFICATION

For frequency hopping systems operating in the 902-928 MHz band: 1 watt (30 dBm) for systems employing at least 50 hopping channels.
The e.i.r.p. shall not exceed 4 W (36 dBm) (Canada).

RESULTS

The maximum peak conducted output power was measured using the method according to point 9.1.1. of Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 558074 D01 DTS Meas Guidance v04 dated 05/04/2017.

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

MAXIMUM OUTPUT POWER. See next plots.

Maximum declared antenna gain: +5dBi.

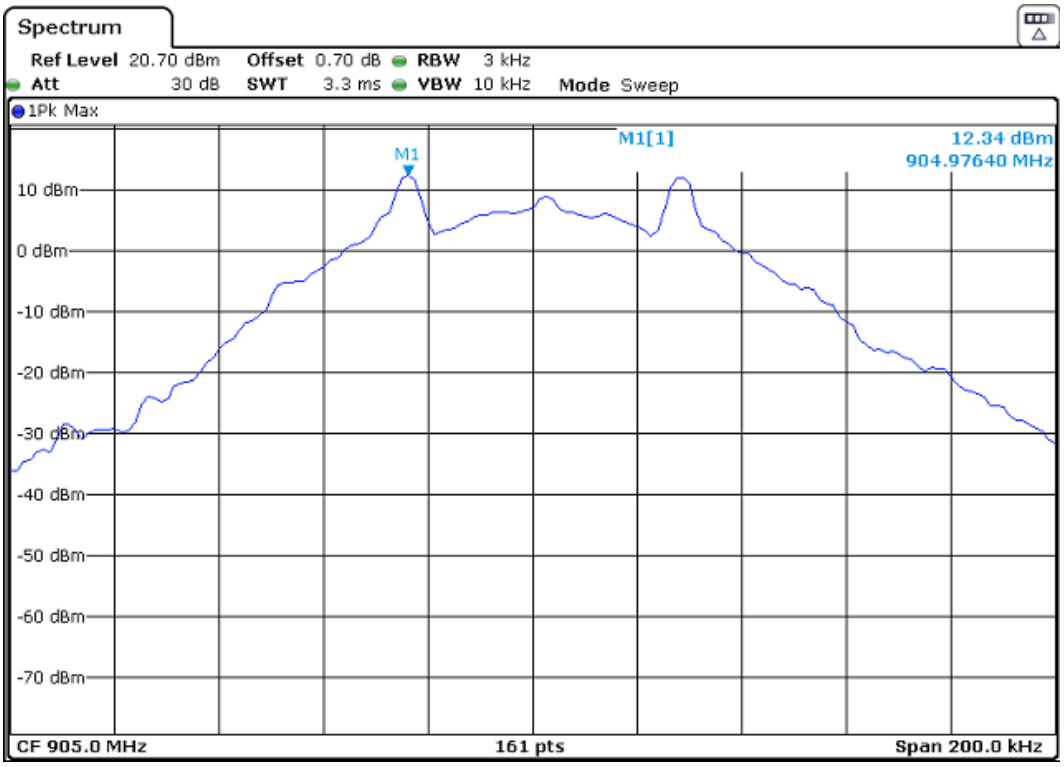
	Lowest frequency 905 MHz	Middle frequency 915 MHz	Highest frequency 926 MHz
Maximum Conducted Power (dBm)	12.34	12.98	12.88
Maximum EIRP power (dBm)	17.34	17.98	17.88
Measurement uncertainty (dB)	<±0.78		

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.

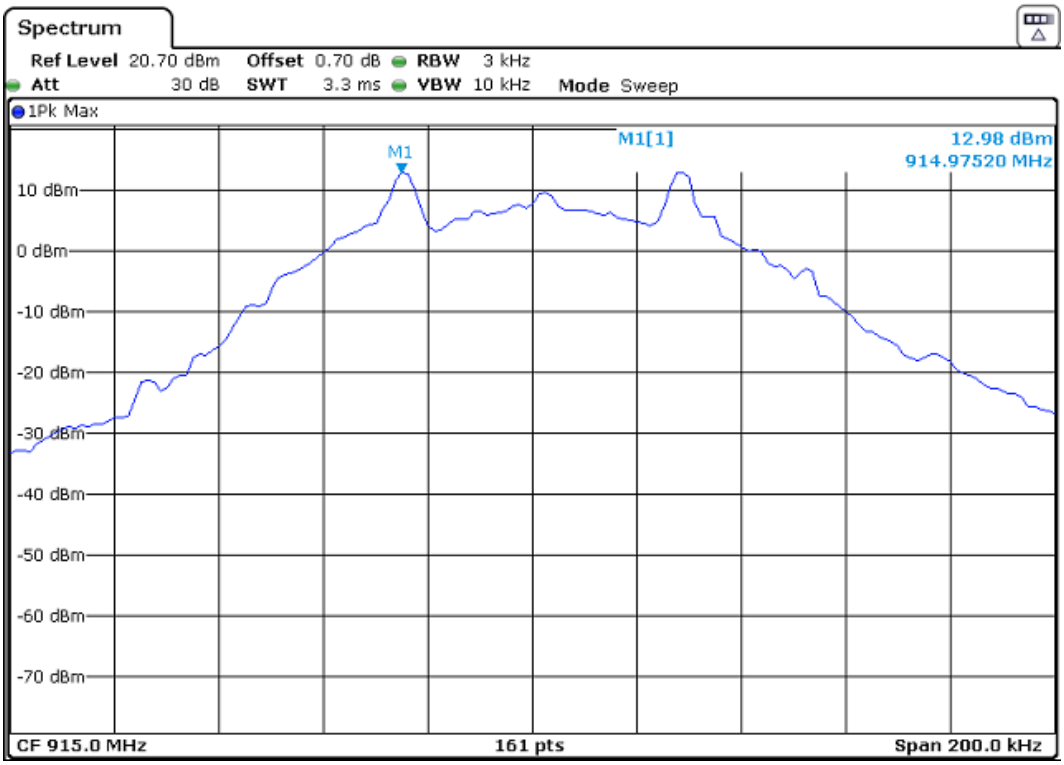
Verdict: PASS

CONDUCTED POWER.

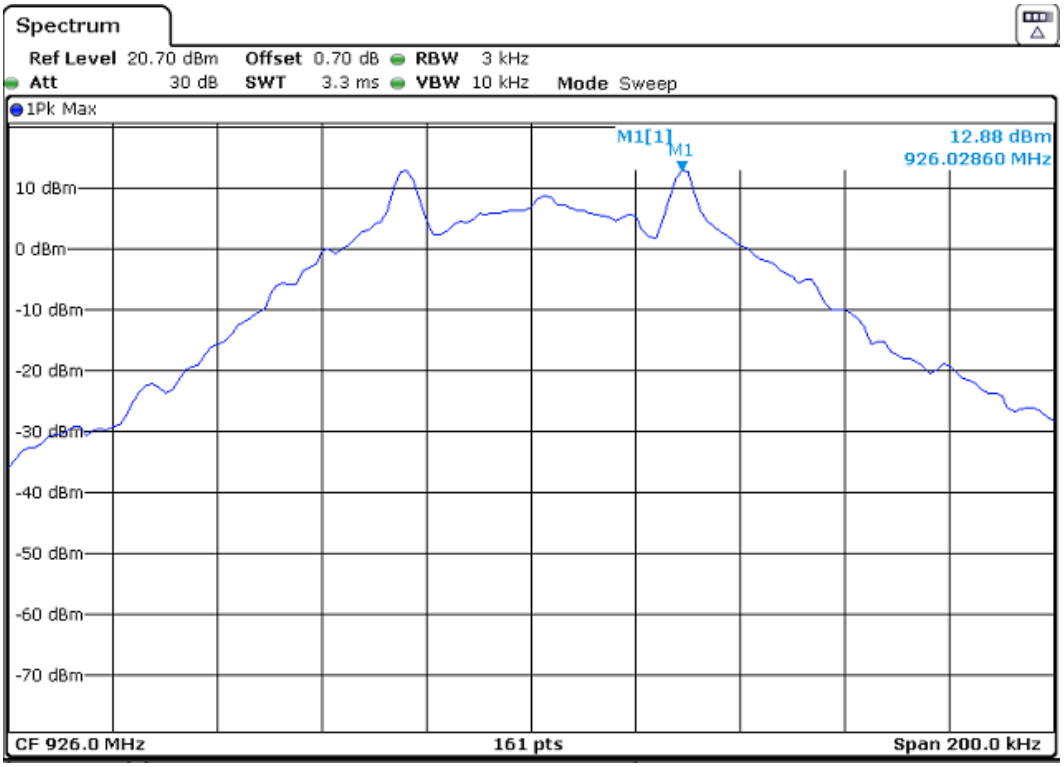
Lowest frequency



Middle frequency



Highest frequency



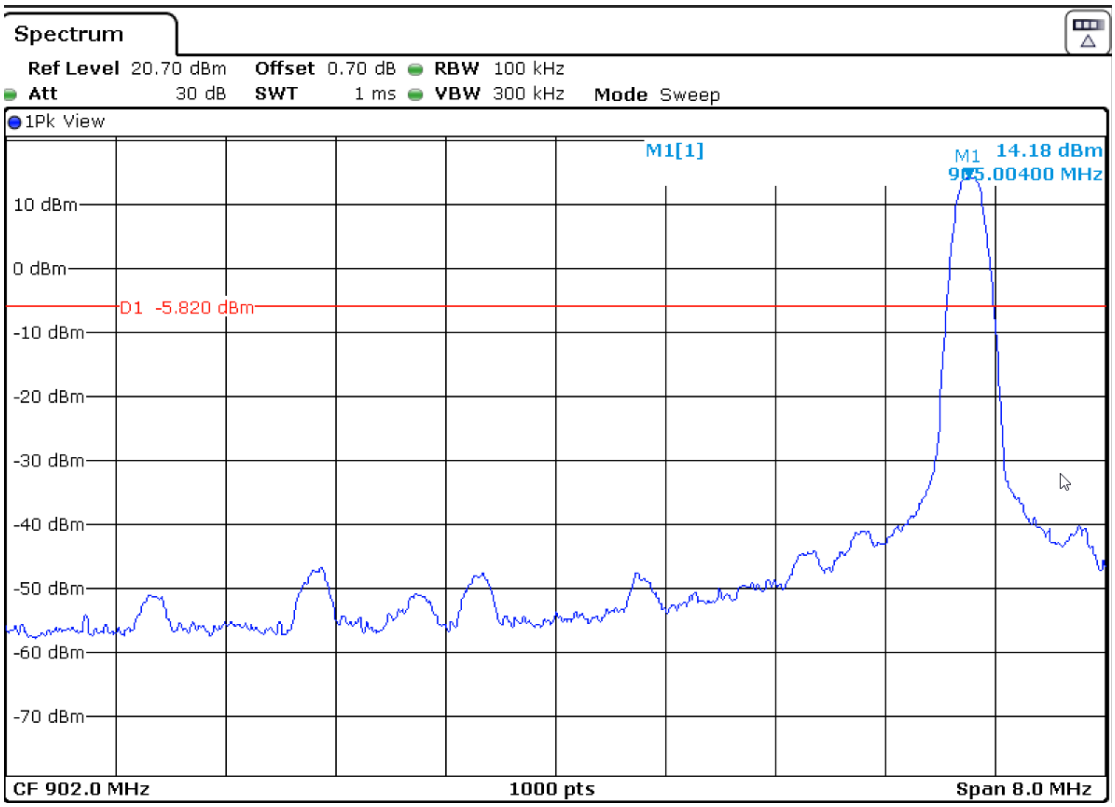
Section 15.247 Subclause (d) / RSS-247 5.5. Band-edge emissions compliance (Transmitter)

SPECIFICATION

Emissions outside the frequency band in which the intentional radiator is operating shall be at least 20dB below the highest level of the desired power.

RESULTS:

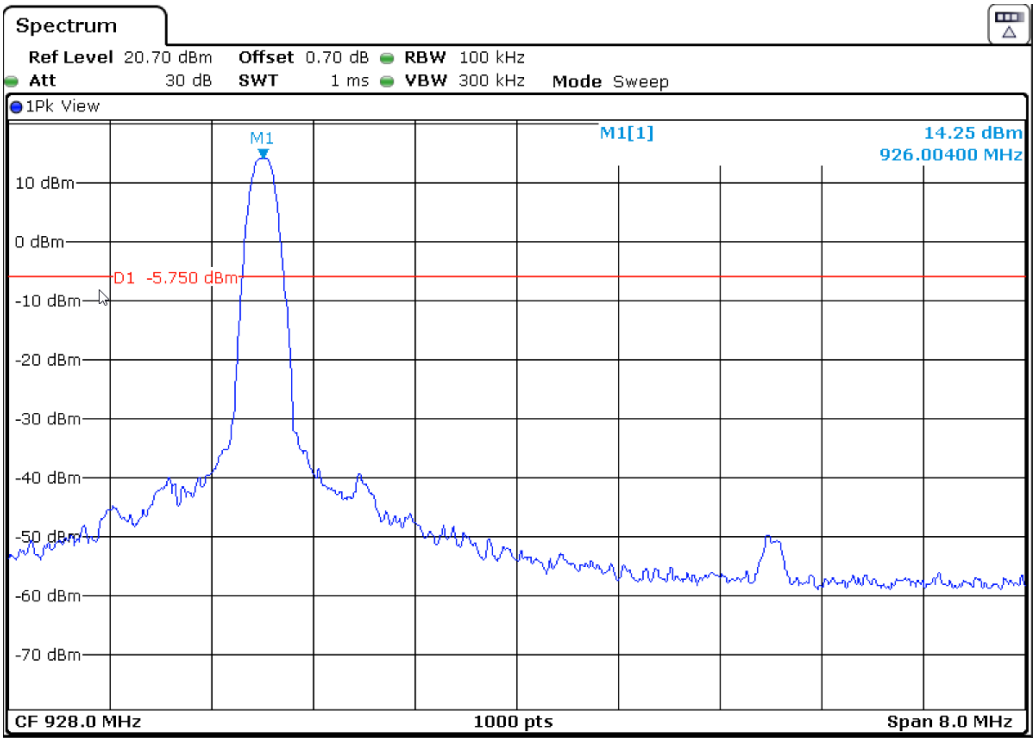
1. LOW FREQUENCY SECTION. 905 MHz (HOPPING OFF). See next plot.



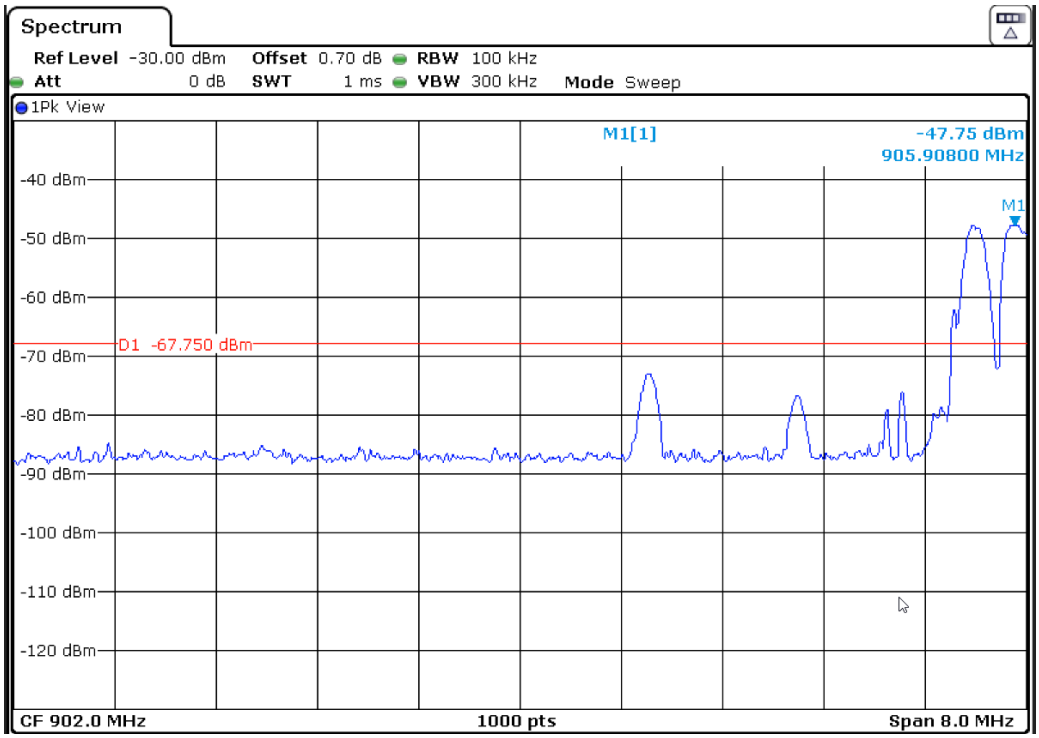
VERDICT : PASS

2. HIGH FREQUENCY SECTION. 926 MHz (HOPPING OFF).

See next plot.

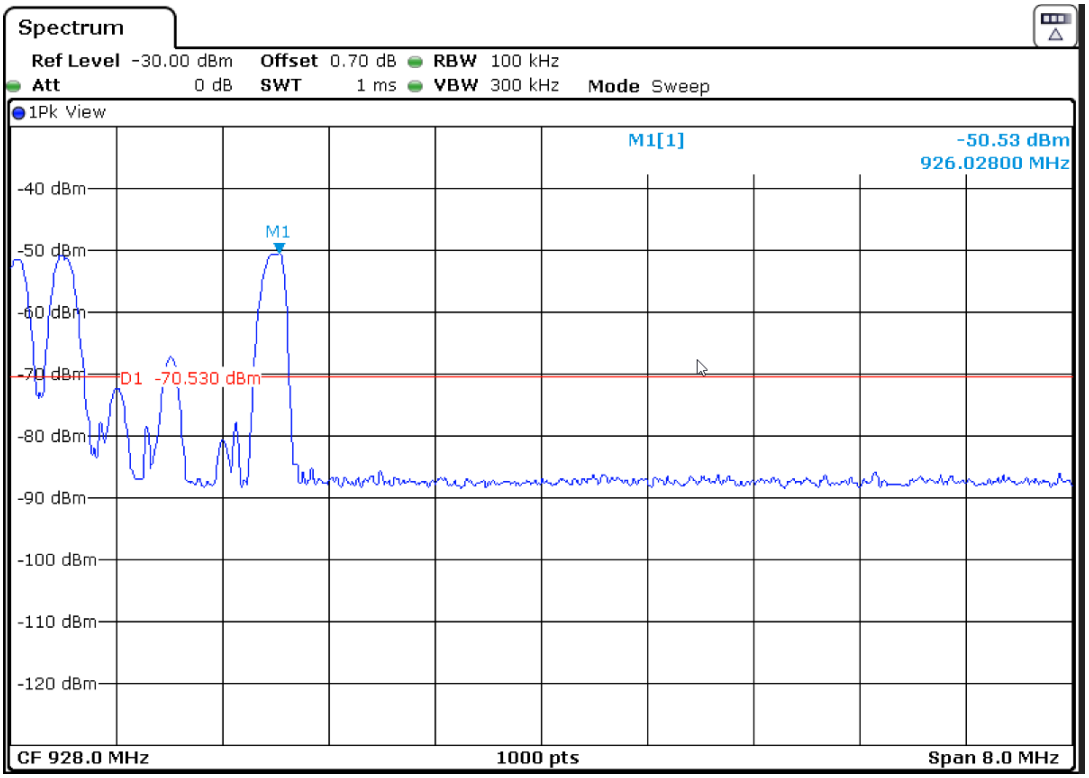


3. LOW FREQUENCY SECTION (HOPPING ON). See next plot.



Verdict: PASS

4. HIGH FREQUENCY SECTION (HOPPING ON). See next plot.



Verdict: PASS

Measurement uncertainty (dB)	<±2.03

Section 15.247 Subclause (d) / RSS-247 5.5. Emission limitations conducted (Transmitter)

SPECIFICATION

In any 100 kHz bandwidth outside the frequency band in which the digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB.

RESULTS:

Reference Level Measurement

	Lowest frequency 905 MHz	Middle frequency 915 MHz	Highest frequency 926 MHz
Reference Level Measurement (dBm)	13.54	13.58	13.57
Measurement uncertainty (dB)	<±0.78		

Lowest frequency 905 MHz:

Frequency (GHz)	Emission limitations conducted (dBm)	Limit (dBm)
1.8099	-40.19	-6.46
2.4014	-44.45	-6.46
2.7154	-44.24	-6.46
3.6197	-38.57	-6.46
4.5251	-43.16	-6.46
5.4306	-51.17	-6.46

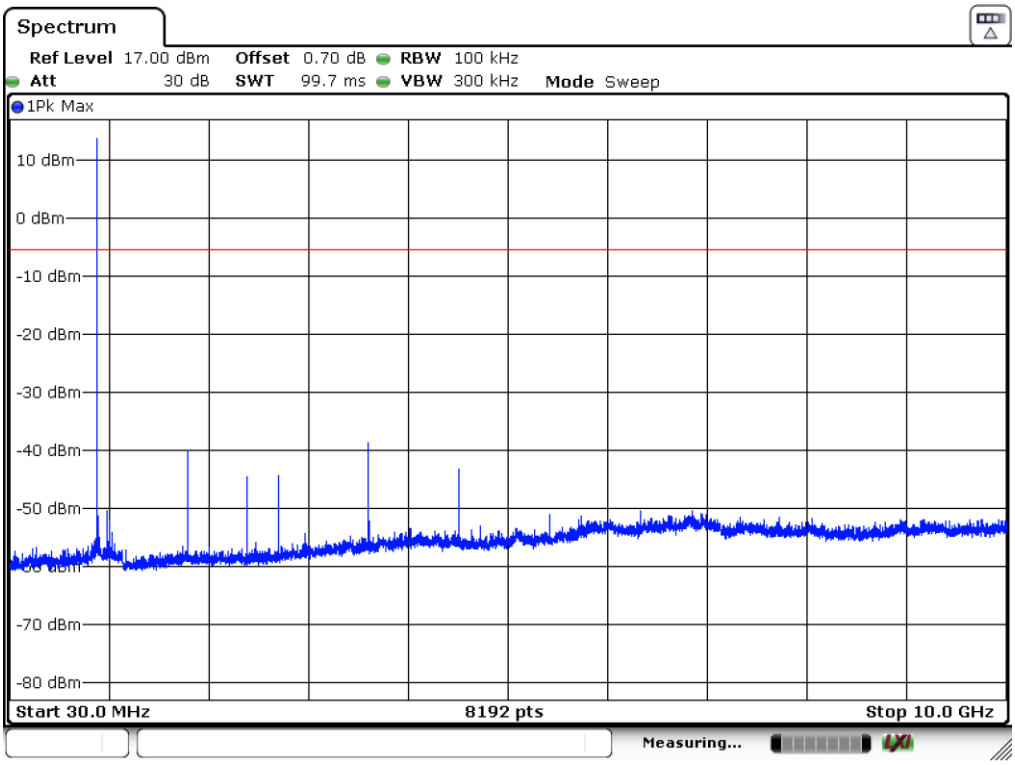
Middle frequency 915 MHz:

Frequency (GHz)	Emission limitations conducted (dBm)	Limit (dBm)
1.8294	-40.66	-6.42
2.7458	-44.24	-6.42
3.6598	-38.07	-6.42
4.5750	-42.52	-6.42
5.4903	-49.07	-6.42

Highest frequency 926 MHz:

Frequency (GHz)	Emission limitations conducted (dBm)	Limit (dBm)
1.8525	-41.06	-6.43
2.7775	-42.15	-6.43
3.7036	-37.91	-6.43
4.6298	-42.09	-6.43
5.5560	-48.66	-6.43

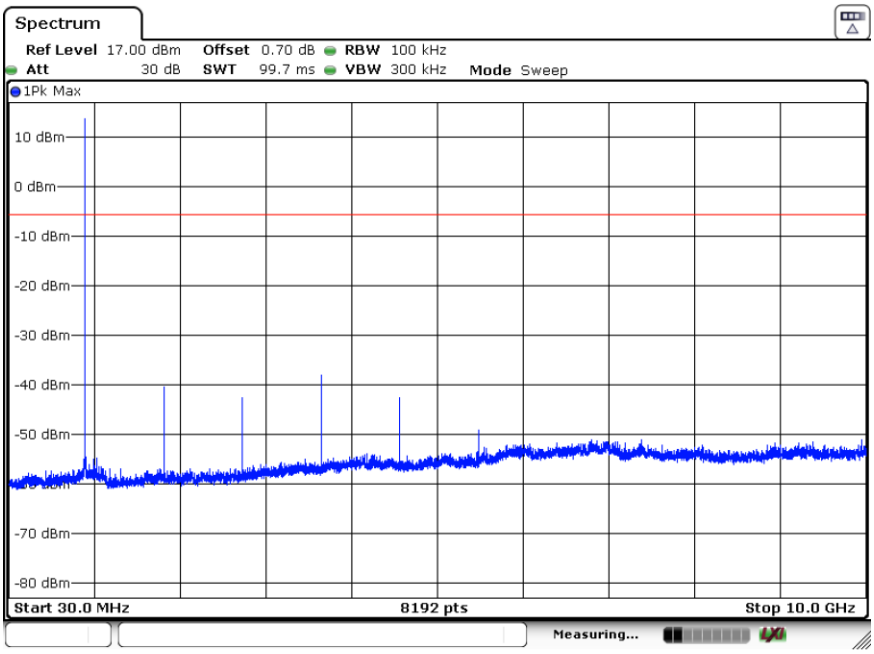
Lowest frequency 905 MHz:



Note: The peak above the limits is the carrier frequency

Verdict: PASS

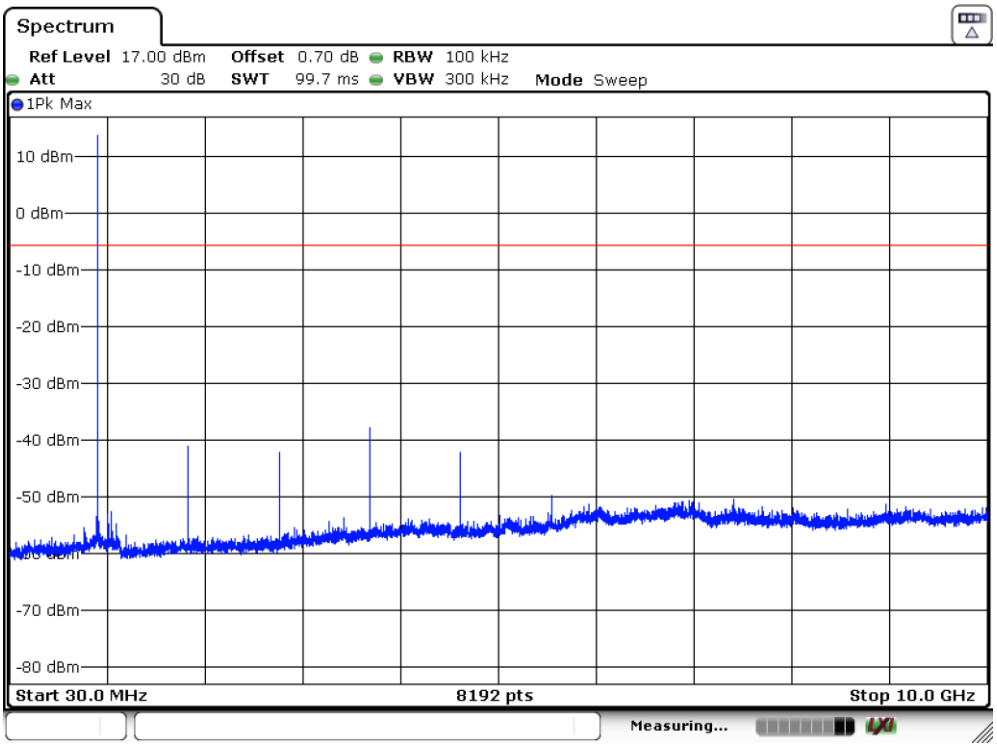
Middle frequency 915 MHz:



Note: The peak above the limits is the carrier frequency.

Verdict: PASS

Highest frequency 926 MHz:



Note: The peak above the limits is the carrier frequency.

Verdict: PASS

Section 15.247 Subclause (d) / RSS-247 5.5. Emission limitations radiated (Transmitter)

SPECIFICATION

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

Frequency Range (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	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.

RESULTS:

The situation and orientation was varied to find the maximum radiated emission. It was also rotated 360º and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

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

All tests were performed in a semi-anechoic chamber at a distance of 3 m for the frequency range 30 MHz-1000 MHz and at distance of 1m for the frequency range 1 GHz-10 GHz.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

Frequency range 30 MHz-1000 MHz.

The spurious signals detected do not depend on the operating channel.

No radiated spurious signals were detected at less than 20 dB respect to the limit for the lowest, middle and highest operating channels.

Frequency range 1 GHz-25 GHz

The results in the next tables show the maximum measured levels in the 1-25 GHz range.

Here, No Spurious Signals were detected in the restricted bands.

Spurious signals with peak levels above the average limit are measured with average detector for checking compliance with the average limit.

1. CHANNEL: LOWEST (905 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
1.80977	V	Peak	50.60	± 4.87
		Average	49.60	± 4.87
2.71473	V	Peak	48.30	± 4.87
		Average	47.10	± 4.87
3.61970	V	Peak	47.80	± 4.87
		Average	46.60	± 4.87
1.80977 (*)	H	Peak	61.80	± 4.87
		Average	61.20	± 4.87
2.71473	H	Peak	49.90	± 4.87
		Average	49.00	± 4.87
3.61970	H	Peak	48.30	± 4.87
		Average	46.80	± 4.87

(*): This spurious frequency is outside the restricted bands as defined in §15.205(a). The measured maximum carrier level at 3m was 105.05 dBµV/m (Peak), so this spurious level is more than 20 dB below the carrier level.

2. CHANNEL: MIDDLE (915 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
1.83017	V	Peak	53.10	± 4.87
		Average	52.10	± 4.87
2.74477	V	Peak	50.10	± 4.87
		Average	49.30	± 4.87
3.65993	V	Peak	46.60	± 4.87
		Average	44.30	± 4.87
1.05893	H	Peak	44.20	± 4.87
		Average	43.00	± 4.87
1.83017 (*)	H	Peak	63.80	± 4.87
		Average	62.90	± 4.87
2.74477	H	Peak	54.30	± 4.87
		Average	53.50	± 4.87
3.65993	H	Peak	47.40	± 4.87
		Average	46.50	± 4.87

(*): This spurious frequency is outside the restricted bands as defined in §15.205(a). The measured maximum carrier level at 3m was 106.44 dBµV/m (Peak), so this spurious level is more than 20 dB below the carrier level.

3. CHANNEL: HIGHEST (926 MHz).

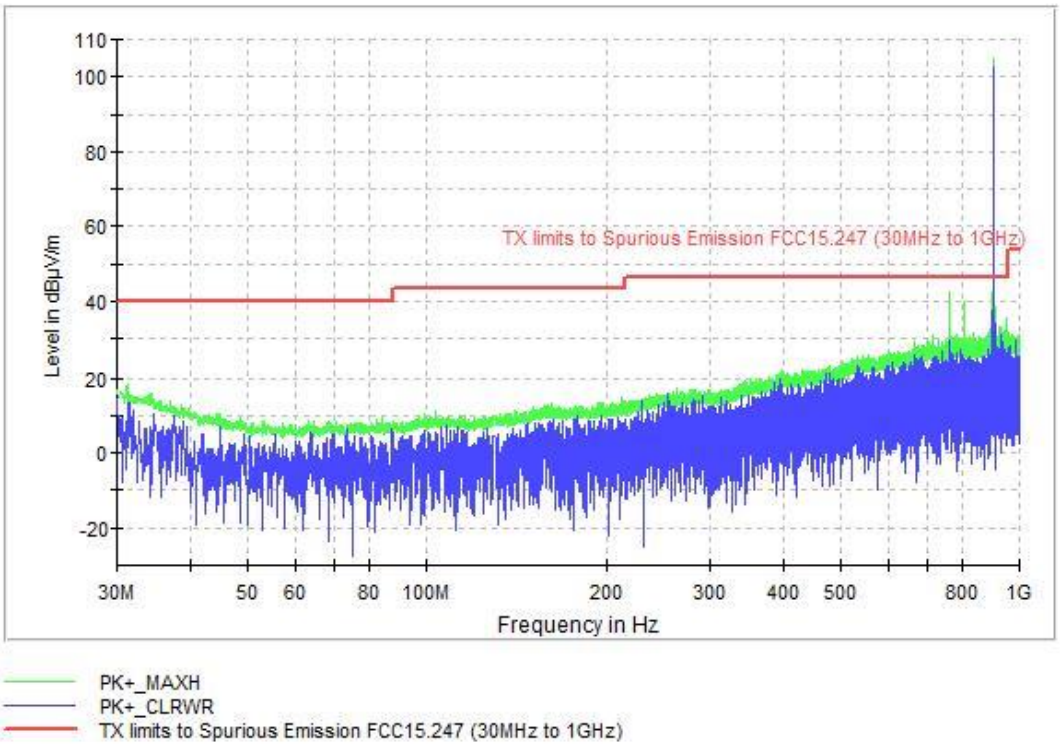
Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
1.85170	V	Peak	53.80	± 4.87
		Average	53.30	± 4.87
2.77763	V	Peak	49.10	± 4.87
		Average	47.20	± 4.87
3.70357	V	Peak	47.10	± 4.87
		Average	43.90	± 4.87
1.07027	H	Peak	41.90	± 4.87
		Average	39.30	± 4.87
1.85170 (*)	H	Peak	61.40	± 4.87
		Average	60.80	± 4.87
2.77820	H	Peak	54.00	± 4.87
		Average	53.00	± 4.87
3.40607	H	Peak	48.00	± 4.87
		Average	47.30	± 4.87

(*): This spurious frequency is outside the restricted bands as defined in §15.205(a). The measured maximum carrier level at 3m was 108.66 dBµV/m (Peak), so this spurious level is more than 20 dB below the carrier level.

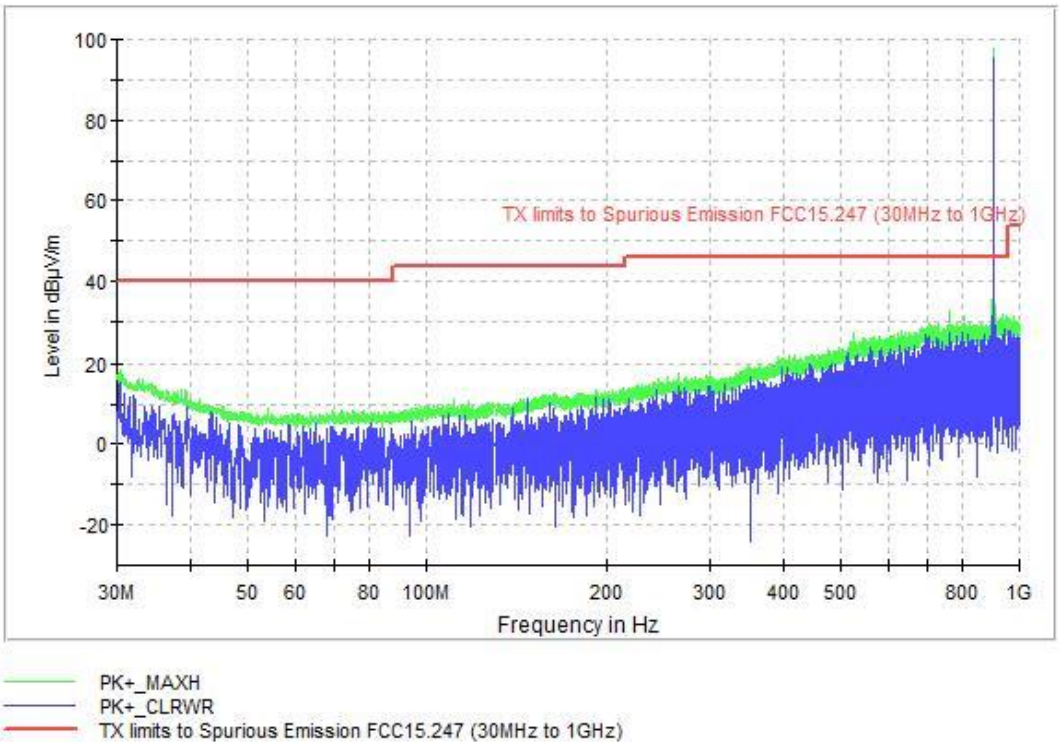
Verdict: PASS

FREQUENCY RANGE 30 MHz-1000 MHz

CHANNEL: Lowest (905 MHz)

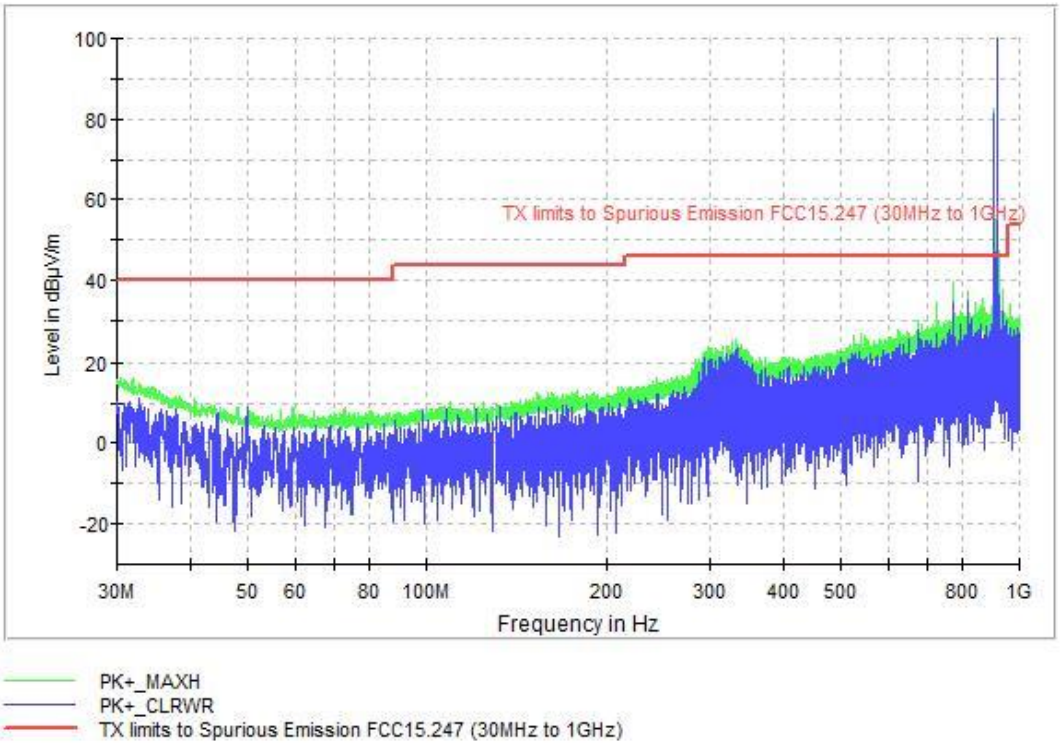


30MHz_1GHz_CH Low HP

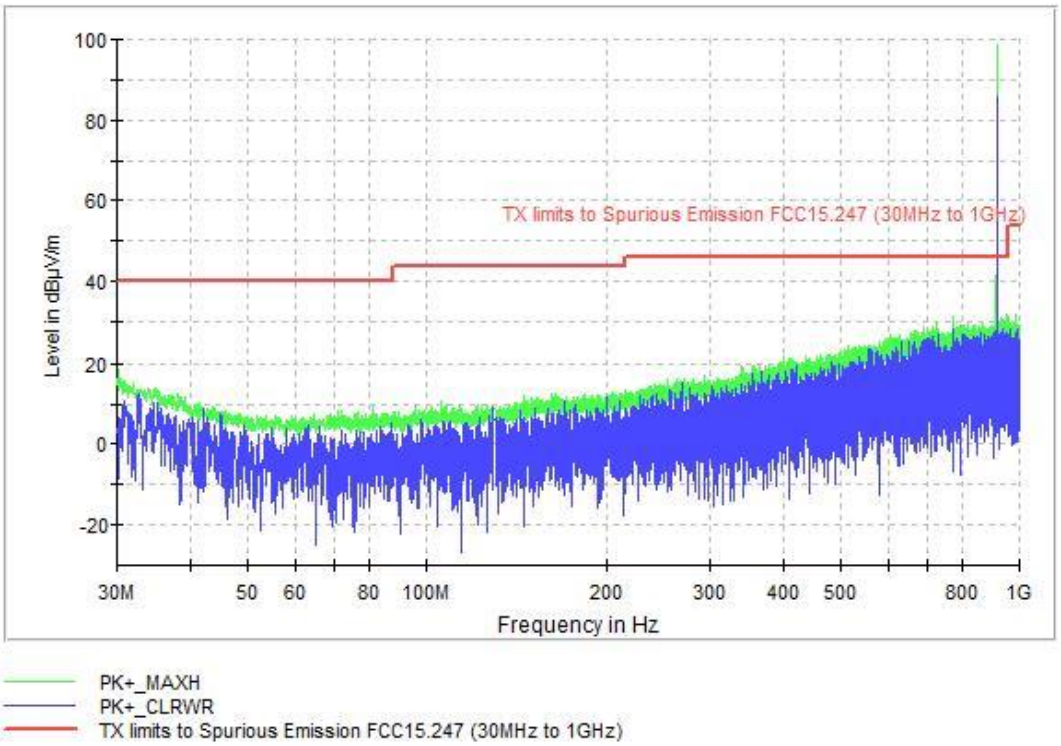


30MHz_1GHz_CH Low VP

CHANNEL: Middle (915 MHz)

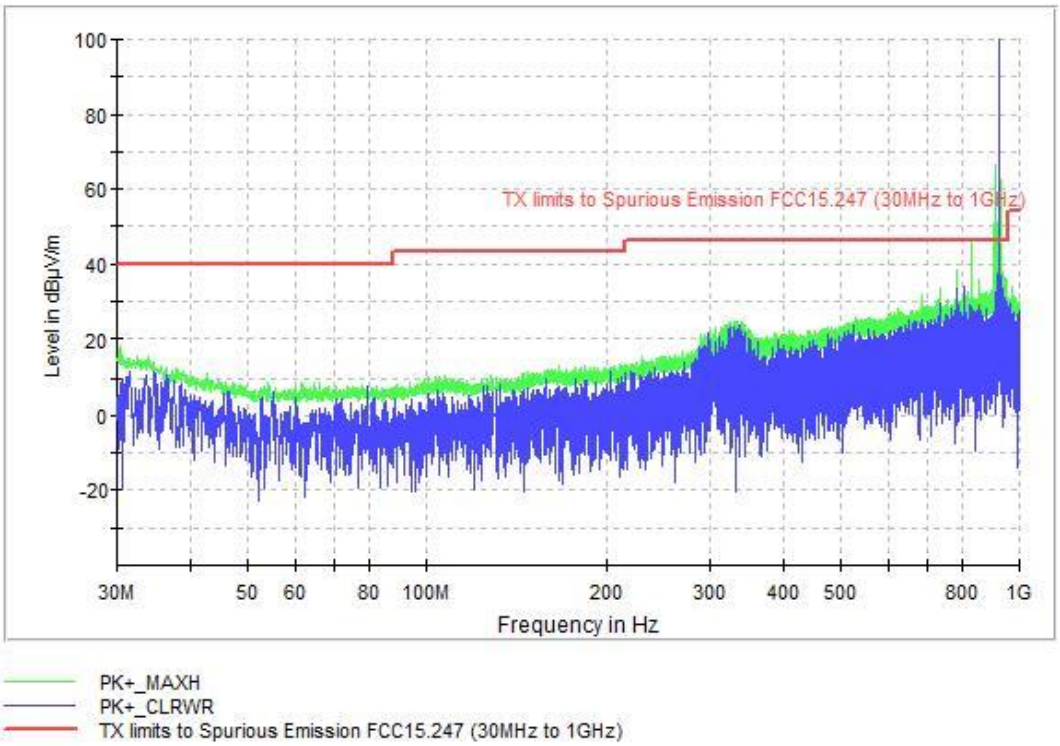


30MHz_1GHz_CH Mid HP

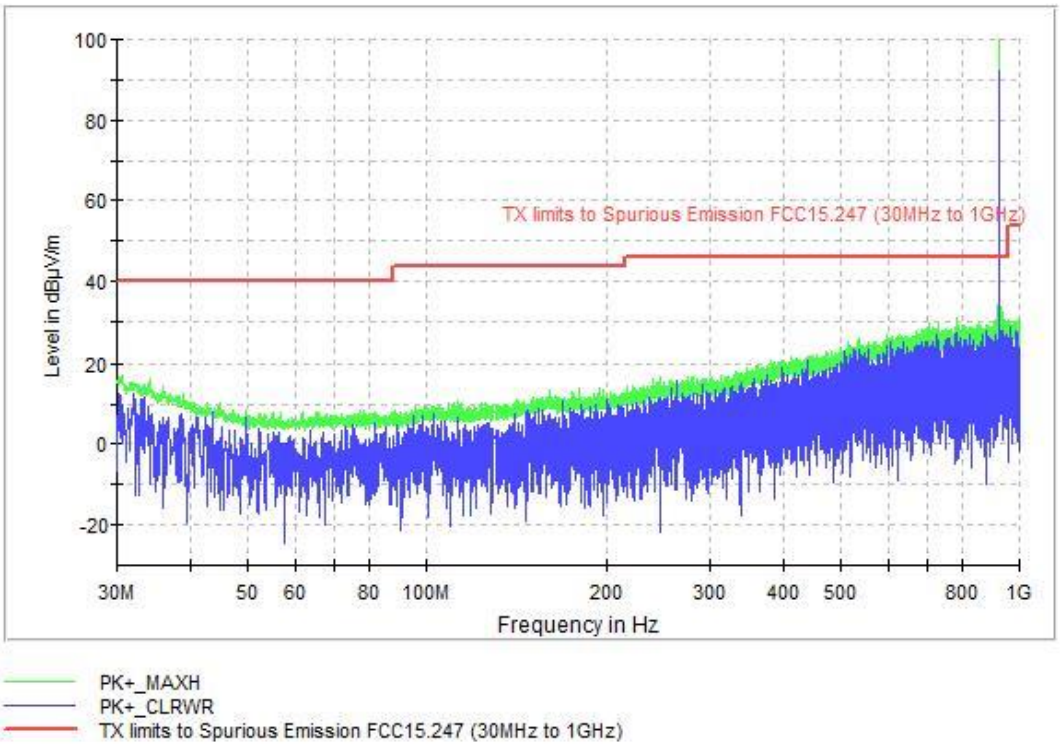


30MHz_1GHz_CH Mid VP

CHANNEL: Highest (926 MHz)



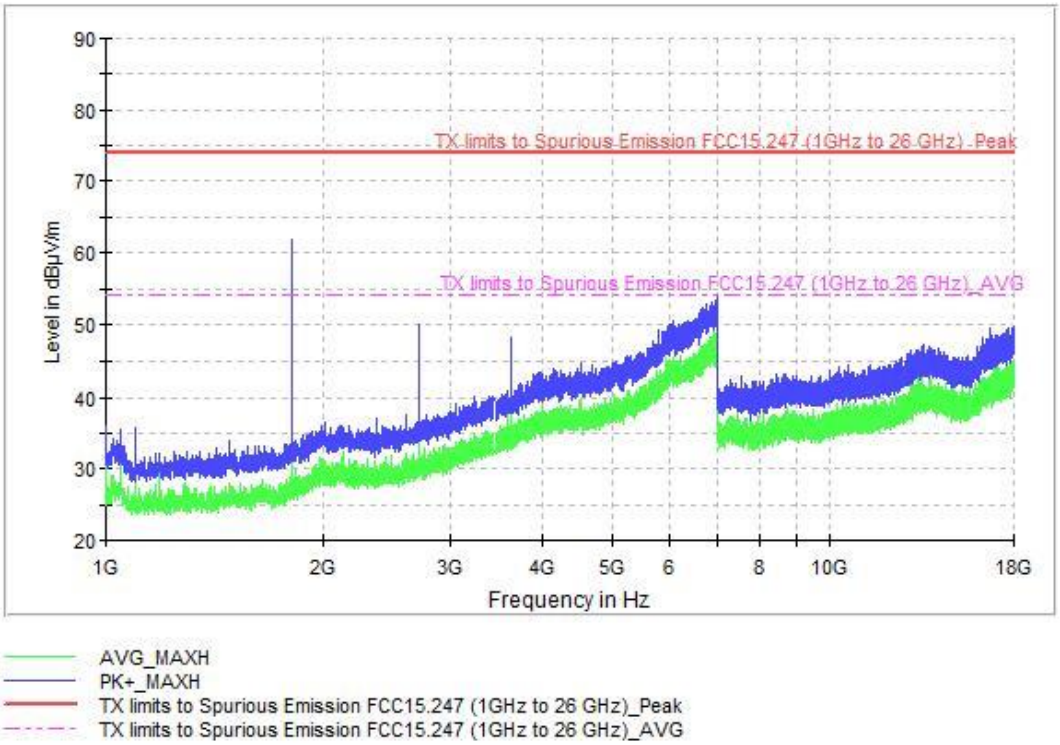
30MHz_1GHz_CH High HP



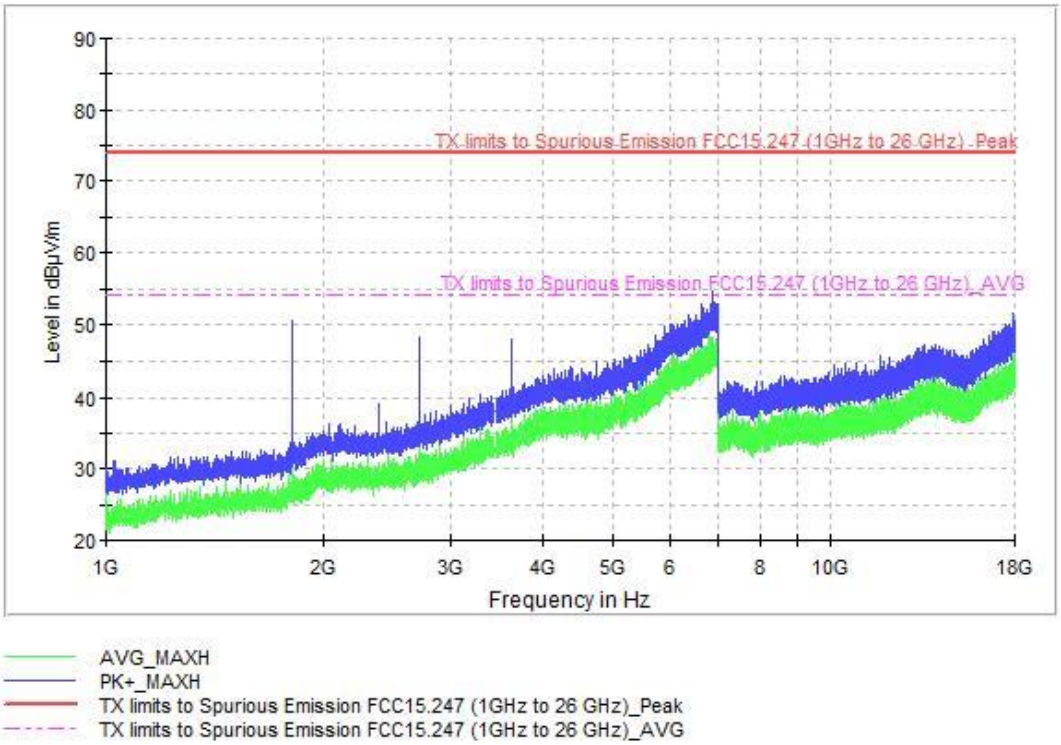
30MHz_1GHz_CH High VP

FREQUENCY RANGE 1 GHz to 18 GHz

CHANNEL: Lowest (905 MHz)

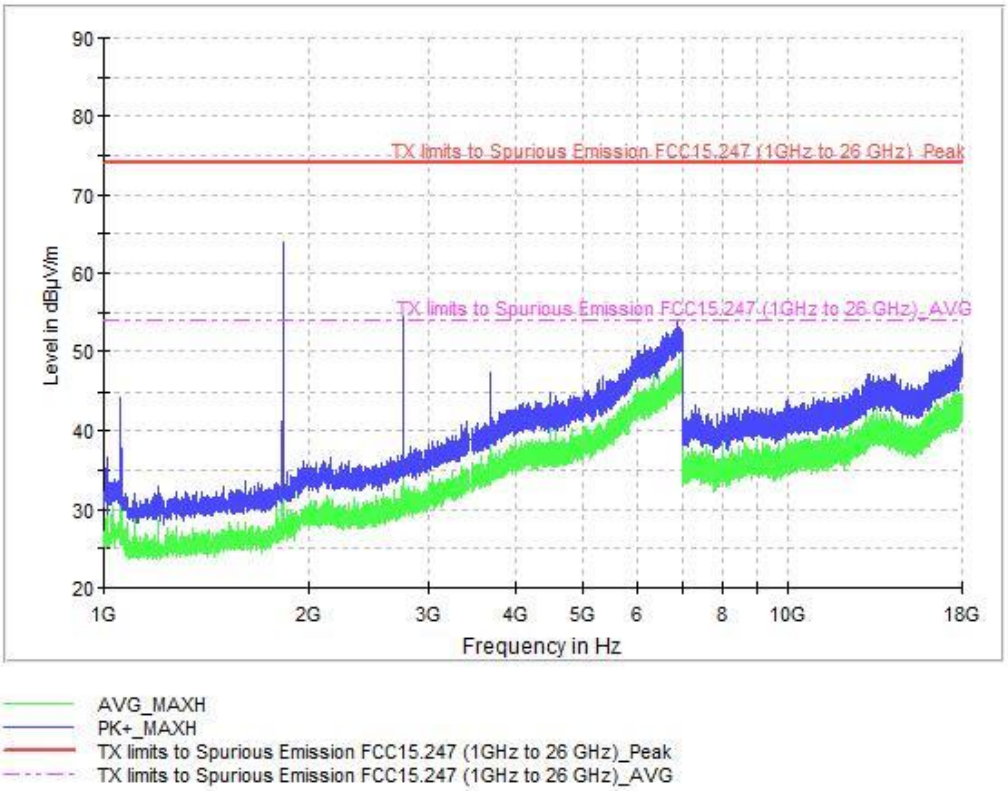


1GHz_18GHz_ HP_CH Low

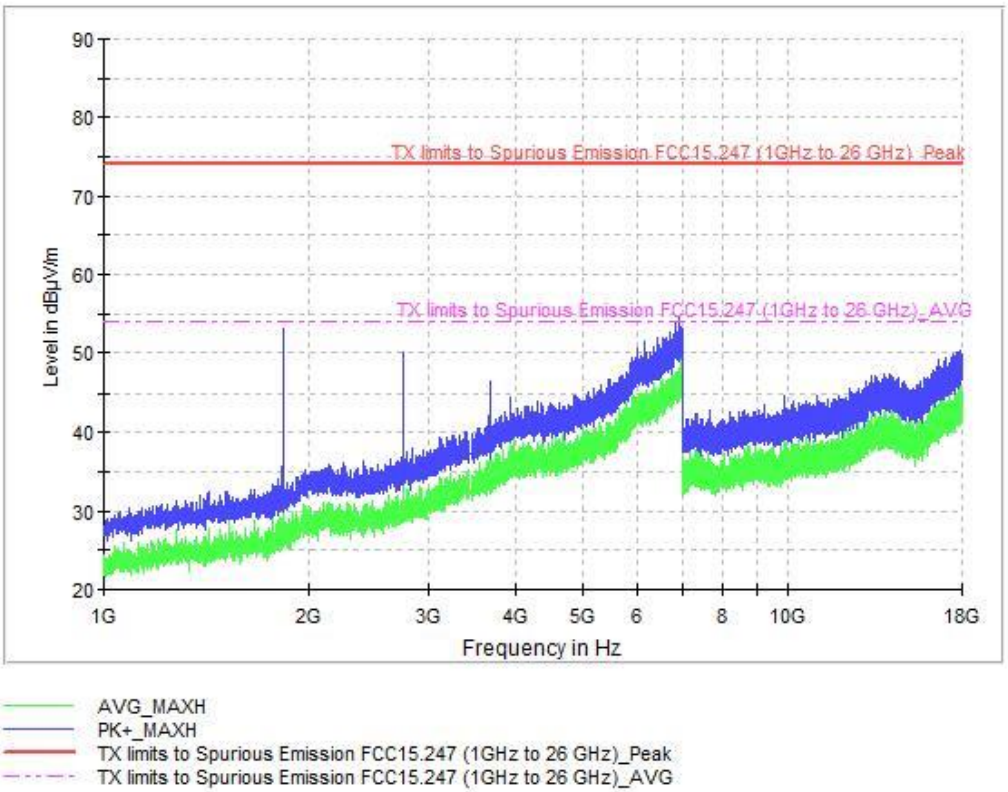


1GHz_18GHz_VP_CH Low

CHANNEL: Middle (915 MHz)

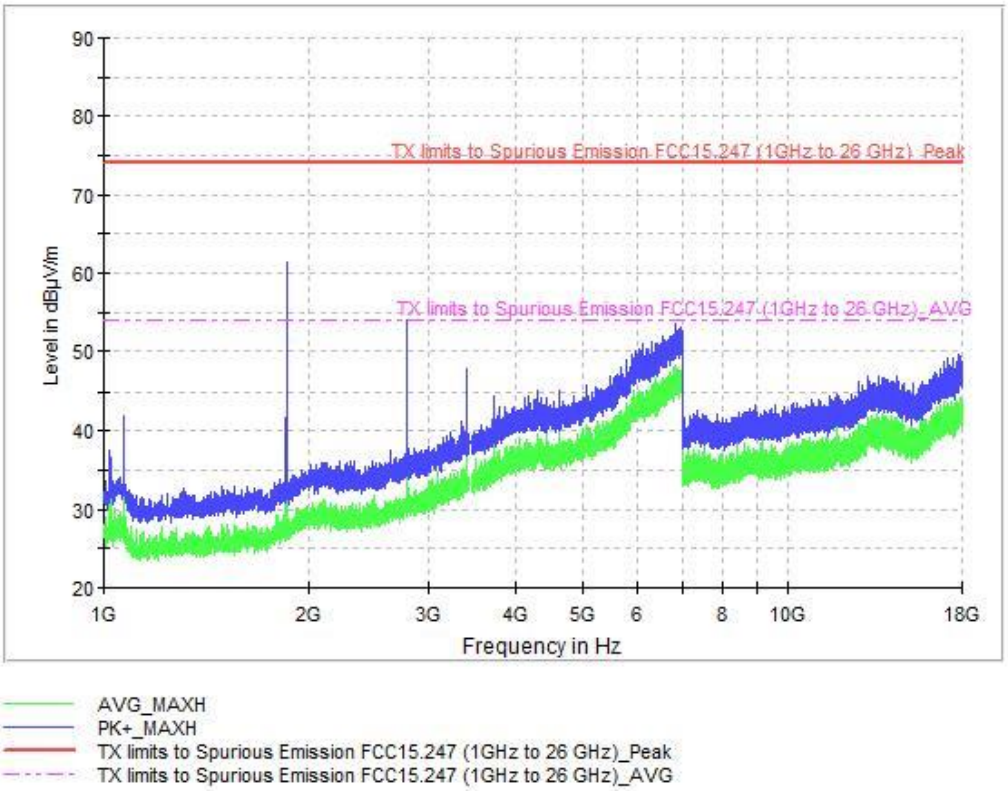


1GHz_18GHz_HP_CH Mid

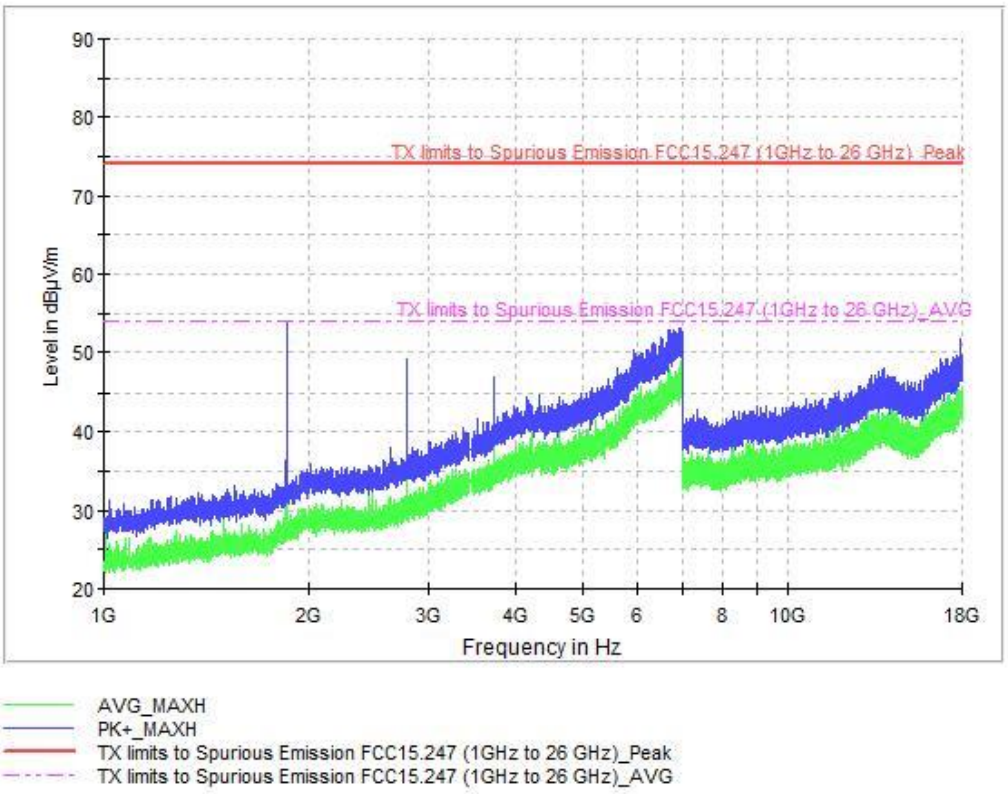


1GHz_18GHz_VP_CH Mid

CHANNEL: Highest (926 MHz)



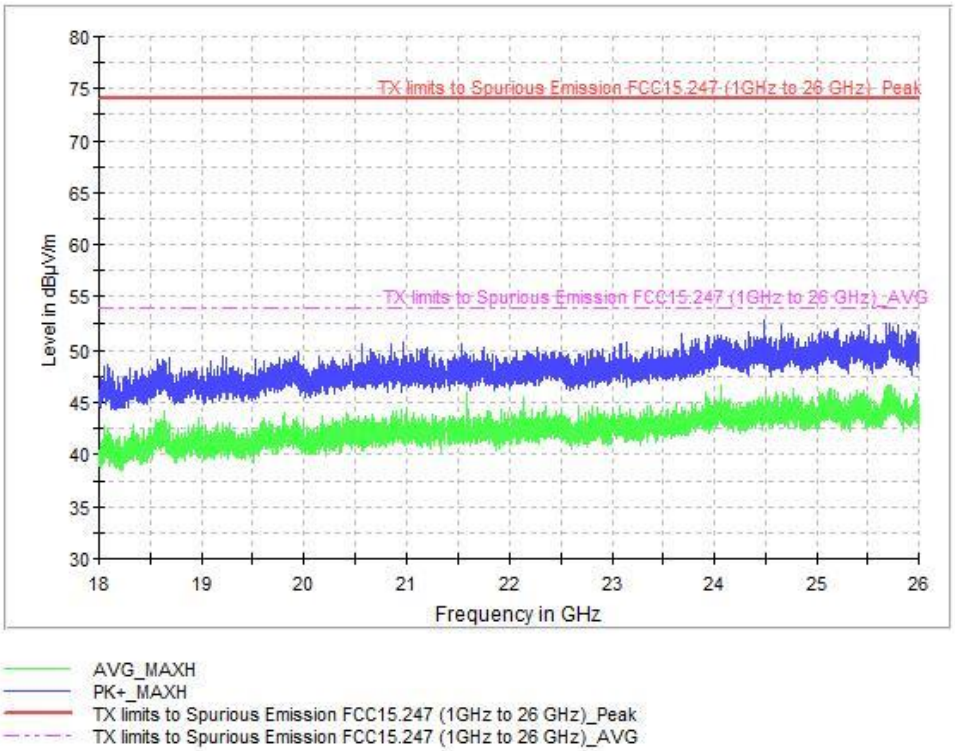
1GHz_18GHz_HP_CH High



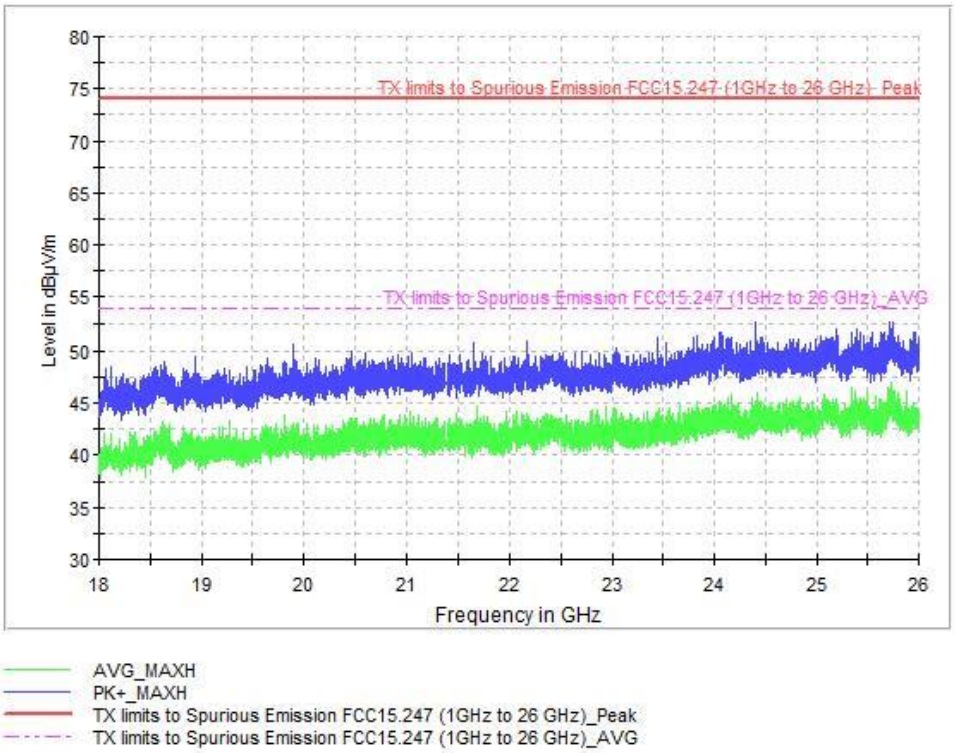
1GHz_18GHz_VP_CH High

FREQUENCY RANGE 18 GHz to 26 GHz

CHANNEL: Lowest (905 MHz)

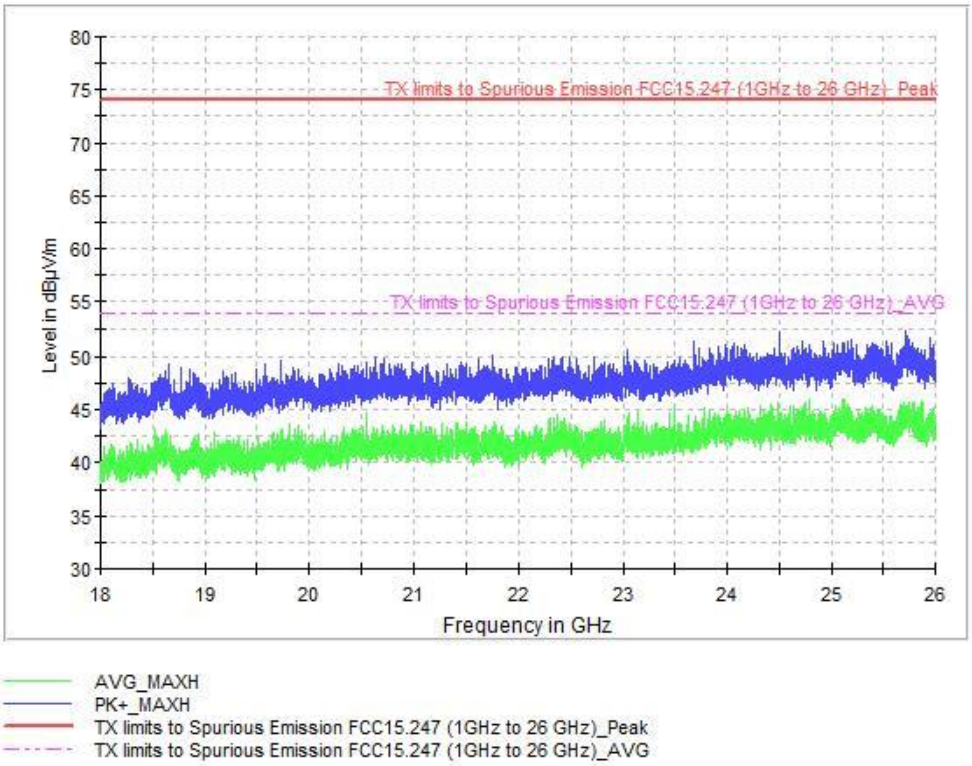


18GHz_26GHz_HP_CH Low

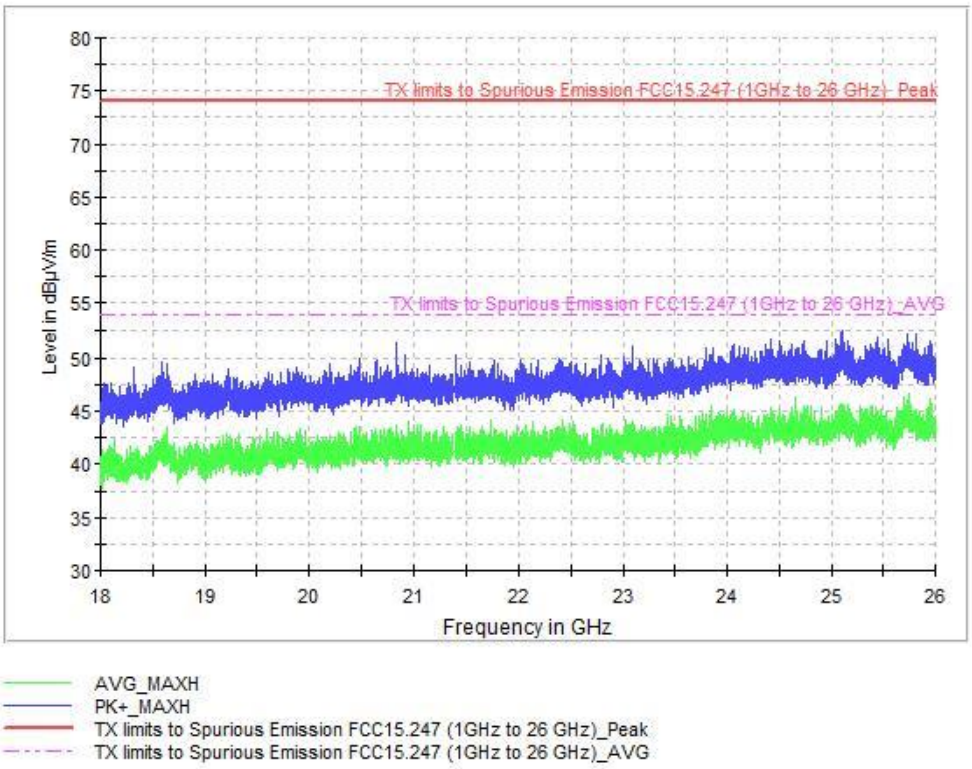


18GHz_26GHz_VP_CH Low

CHANNEL: Middle (915 MHz)

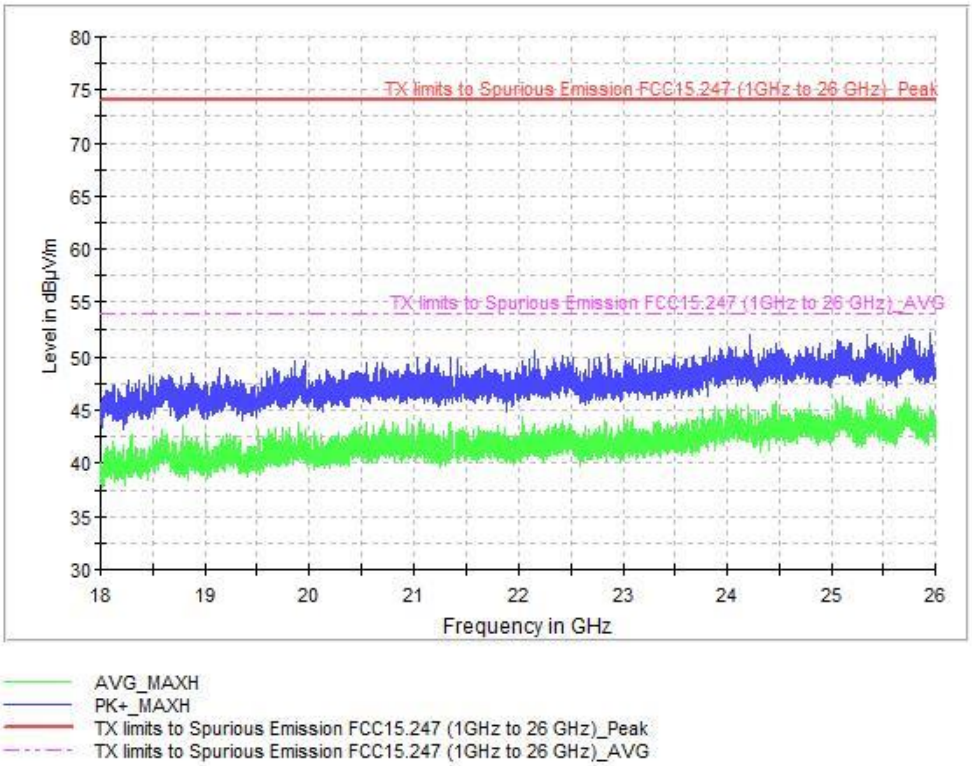


18GHz_26GHz_HP_CH Mid

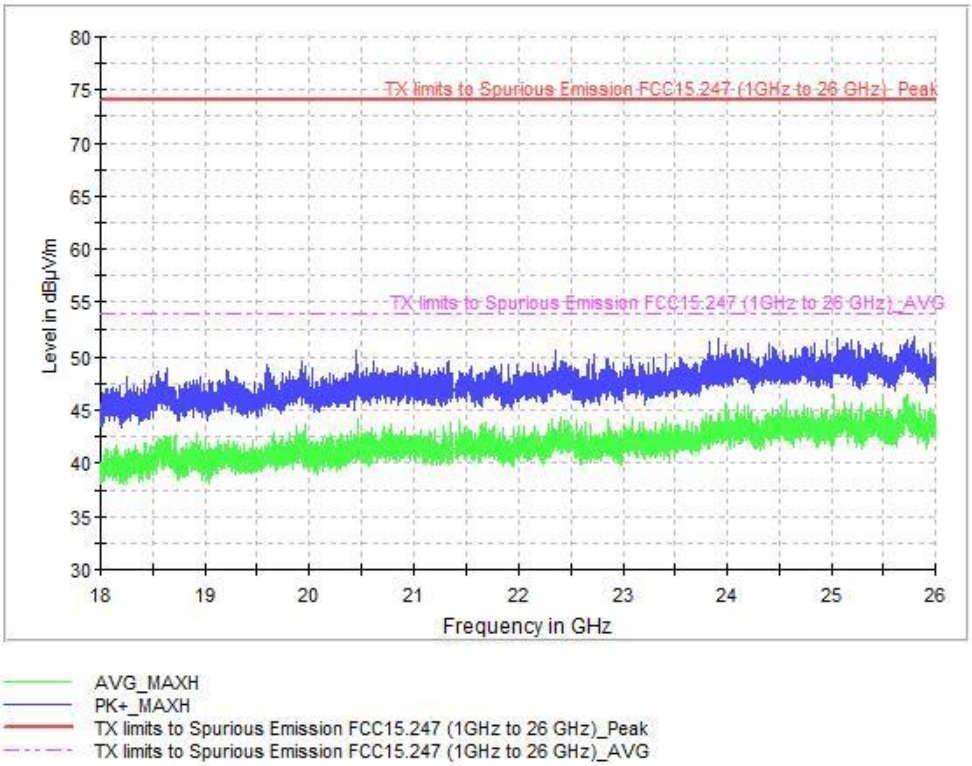


18GHz_26GHz_VP_CH Mid

CHANNEL: Highest (926 MHz)



18GHz_26GHz_HP_CH High



18GHz_26GHz_HP_CH High