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FCC LISTED, REGISTRATION NUMBER: 720267

IC LISTED REGISTRATION NUMBER IC 4621A-2

Informe de ensayo nº:
Test report No:

NIE: 52440RRF.002

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 Licence-Exempt Local Area Network (LE-LAN) Devices.
General Requirements and Information for the Certification of Radio Apparatus.

Identificación del objeto ensayado.....: Identification of item tested	Gateway
Marca .....: Trademark	Ericsson
Modelo y/o referencia tipo .....: Model and /or type reference	Gateway 5780
Other identification of the product .....:	FCC ID: VV7-IOTGW5780W IC: 287AG-IOTGW5780W
Final HW version .....:	R1B
Final FW version .....:	R1A
Características .....: Features	LoRaWAN Spec. 1.0.2 class A,B and C GNSS: GLONASS and GPS Tamper proof: Secure Boot by HW Secure Backhaul: IPSEC over Ethernet or 3GPP Auto recovery, Watchdog and heartbeat SNMP/MIB OSS interface Geolocation via RSSI Dynamic network tuning via band scanning
Solicitante.....: Applicant	ERICSSON AB Lindholmspiren 11, 41756 Göteborg, Sweden
Método de ensayo solicitado, norma.....: Test method requested, standard	USA FCC Part 15.247 10-1-15 Edition: Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz. USA FCC Part 15.209 10-1-15 Edition: Radiated emission limits; general requirements. CANADA RSS-247 Issue 1 (May 2015). 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 v03r05 dated 04/08/2016. ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

Resultado.....: Summary	IN COMPLIANCE
Aprobado por (nombre / cargo y firma) .....: Approved by (name / position & signature)	A. Llamas RF Lab. Manager  Firmado digitalmente por ALEJANDRO LLAMAS RODRIGUEZ Fecha: 2017.03.14 09:25:30 +01'00'
Fecha de realización .....: Date of issue	2017-03-14
Formato de informe No.....: Report template No	FDT08_18

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Competences and guarantees

AT4 wireless 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.

AT4 wireless 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 conjuction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Registration Number: 720267.

AT4 wireless 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: IC 4621A-2.

In order to assure the traceability to other national and international laboratories, AT4 wireless has a calibration and maintenance program for its measurement equipment.

AT4 wireless 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 AT4 wireless at the time of performance of the test.

AT4 wireless 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 AT4 wireless and the Accreditation Bodies.

Uncertainty

Uncertainty (factor k=2) was calculated according to the AT4 wireless 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
52440C/002	Gateway	Gateway 5780	C37170209E	2017-02-08
50459F/007	Dual-band Omni antenna	80010847 (Ericsson number KRE 101 2233/1)	I0J4277665	2016-11-09
50459F/030	GPS antenna	GPS-36-N-SA (Ericsson number KRE 101 2182/1)	---	2016-11-14
50459F/017	Connection cable “GPS”	---	---	2016-11-09
50459F/041	Connection cable “LORA”	---	---	2016-11-15
50459F/005	Surge arrestor device	---	---	2016-11-09
50459F/044	Ethernet cable	---	---	2016-12-09
50459F/001-1	Power supply cable	---	---	2016-11-09

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

   All radiated tests for first antenna configuration indicated in appendix A.

Sample S/02 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
52440C/002	Gateway	Gateway 5780	C37170209E	2017-02-08
50459F/028	VPoI Omni antenna	736347 (Ericsson number KRE 101 1399/1)	I0J4204781	2016-11-10
50459F/030	GPS antenna	GPS-36-N-SA (Ericsson number KRE 101 2182/1)	---	2016-11-14
50459F/041	Connection cable “GPS”	---	---	2016-11-09
50459F/016	Connection cable “LORA”	---	---	2016-11-15
50459F/005	Surge arrestor device	---	---	2016-11-09
50459F/044	Ethernet cable	---	---	2016-12-09
50459F/042	Adapter to antenna	---	---	2016-11-15

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

   All radiated tests for second antenna configuration indicated in appendix A.

Sample S/03 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
52440C/002	Gateway	Gateway 5780	C37170209E	2017-02-08
50459F/016	Connection cable "LORA"	---	---	2016-11-15
50459F/005	Surge arrestor device	---	---	2016-11-09
50459F/044	Ethernet cable	---	---	2016-12-09
50459F/001-1	Power supply cable	---	---	2016-11-09

1. Sample S/03 has undergone following test(s).

   All conducted tests for DC voltage from AC/DC power supply unit indicated in appendix A.

Test sample description

The Gateway 5780 is a communications gateway providing connectivity to low power devices in unlicensed spectrum with an Ethernet or cellular backhaul.

Identification of the client

ERICSSON AB

Lindholmspiren 11,

41756 Göteborg, Sweden

Testing period

The performed test started on 2017-02-08 and finished on 2017-02-27.

The tests have been performed at AT4 wireless.

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 %
Shielding effectiveness	> 100 dB
Electric insulation	> 10 kΩ
Reference resistance to earth	< 1 Ω

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
Shielding effectiveness	> 100 dB
Electric insulation	> 10 kΩ
Reference resistance to earth	< 1 Ω
Normal site attenuation (NSA)	< ±4 dB at 10 m distance between item under test and receiver antenna, (30 MHz to 1000 MHz)
Field homogeneity	More than 75% of illuminated surface is between 0 and 6 dB (26 MHz to 1000 MHz).

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
Shielding effectiveness	> 100 dB
Electric insulation	> 10 kΩ
Reference resistance to earth	< 1 Ω

Remarks and comments

1: Used instrumentation:

Conducted Measurements

		Last Cal. date	Cal. due date
1.	Spectrum analyser Agilent E4440A	2015/10	2017/10
2.	DC power supply R&S NGPE 40/40	2014/11	2017/11

Radiated Measurements

		Last Cal. date	Cal. due date
1.	Semianechoic Absorber Lined Chamber ETS FACT3 200STP	N.A.	N.A.
2.	BiconicalLog antenna ETS LINDGREN 3142E	2014/03	2017/03
3.	Multi Device Controller EMCO 2090	N.A.	N.A.
4.	Double-ridge Guide Horn antenna 1-18 GHz SCHWARZBECK BBHA 9120 D	2016/11	2019/11
5.	Broadband Horn antenna 18-40 GHz SCHWARZBECK BBHA 9170	2014/03	2017/03
6.	EMI Test Receiver R&S ESU 40	2016/03	2018/03
7.	Spectrum analyser Rohde & Schwarz FSW50	2015/12	2017/12
8.	RF pre-amplifier 10 MHz-6 GHz SCHWARZBECK BBV9743	2016/04	2017/04
9.	RF pre-amplifier 1-18 GHz Bonn Elektronik BLMA 0118-1M	2016/02	2018/02
10.	RF pre-amplifier 18-40 GHz BONN ELEKTRONIK BLMA 1840-1M	2015/12	2017/12
11.	DC power supply R&S NGPE 40/40	2014/11	2017/11

Testing verdicts

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

FCC PART 15 PARAGRAPH / RSS-247		VERDICT			
		NA	P	F	NM
Section 15.247 Subclause (a) (2) / RSS-247 5.2. (1)	6 dB Bandwidth		P		
Section 15.247 Subclause (b) / RSS-247 5.4. (4)	Maximum output power and antenna gain		P		
Section 15.247 Subclause (d) / RSS-247 5.5	Emission limitations conducted (Transmitter)		P		
Section 15.247 Subclause (d) / RSS-247 5.5.	Band-edge emissions compliance (Transmitter)		P		
Section 15.247 Subclause (e) / RSS-247 5.2. (2)	Power spectral density		P		
Section 15.247 Subclause (d) / RSS-247 5.5	Emission limitations radiated (Transmitter)		P		

Appendix A – Test result

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TEST CONDITIONS

Power supply (V):

1.- Type of power supply = DC voltage from AC/DC power supply unit.

$V_{nominal}$ = 36.0 Vdc

2.- Type of power supply = DC voltage from Power over Ethernet (PoE).

Vnominal = 50.0 Vdc

Type of antenna = External antenna

First antenna configuration:

Dual-band Omni Antenna (80010847)

Frequency: 790-960MHz / 1695 – 2700 MHz

Declared Gain for antenna (maximum) = +2.0 dBi

Second antenna configuration:

VPoI Omni Antenna (736347)

Frequency: 870 – 960 MHz

Declared Gain for antenna (maximum) = +11.0 dB

TEST FREQUENCIES:

Lowest channel: 923.3 MHz

Highest channel: 927.5 MHz

The laptop computer was used to configure the EUT to continuously transmit at a specified output power in all channels.

Power adjustment for 2.0 dBi antenna:

LoRa	TX Power (dBm)
923.3 MHz	27
927.5 MHz	27

Power adjustment for 11.0 dBi antenna:

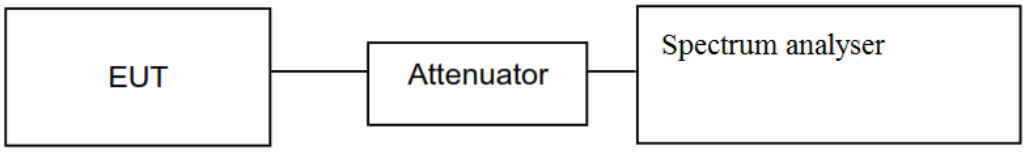
LoRa	TX Power (dBm)
923.3 MHz	24
927.5 MHz	24

All conducted tests except Maximum output power were performed with the power adjustment of 27 dBm which is the worst case.

Maximum output power and radiated spurious emissions were performed with both power adjustments.

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 analyzer is corrected with the cable loss.



The DC supply voltage is applied using an external calibrated power supply.

RADIATED MEASUREMENTS

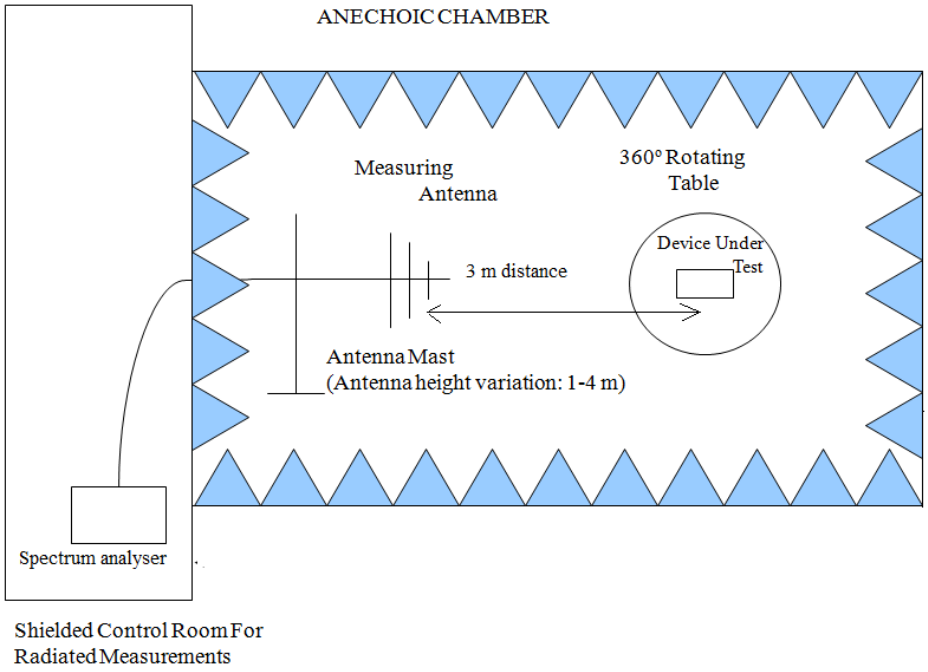
All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at a distance of 3 m for the frequency range 30 MHz-1000 MHz (30 MHz-1000 MHz Bilog antenna) and at a distance of 1m for the frequency range 1 GHz-10 GHz (1 GHz-18 GHz Double ridge horn antenna).

For radiated emissions in the range 1 GHz-10 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.

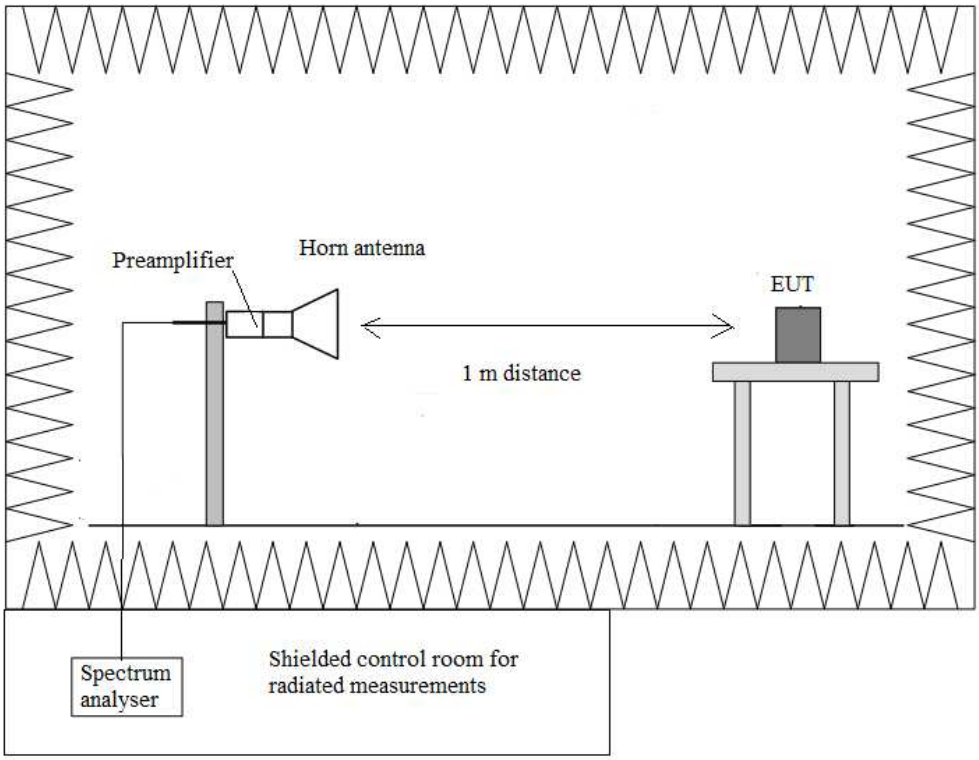
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360º and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

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

Radiated measurements setup f < 1 GHz



Radiated measurements setup f > 1 GHz



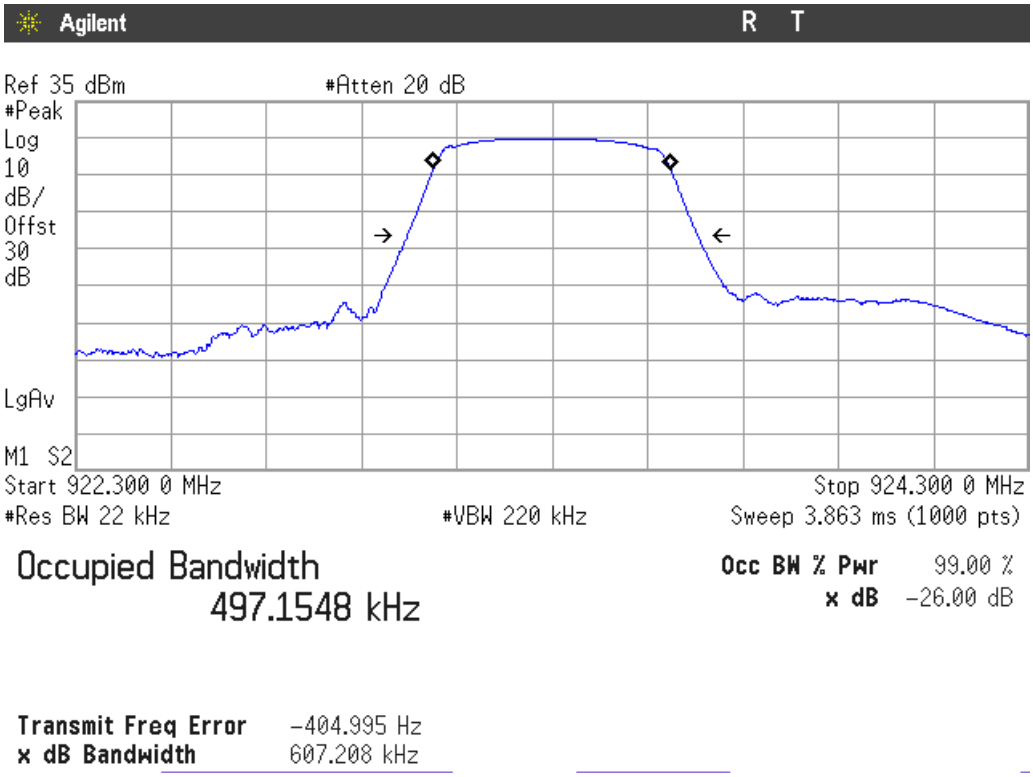
Occupied Bandwidth

RESULTS

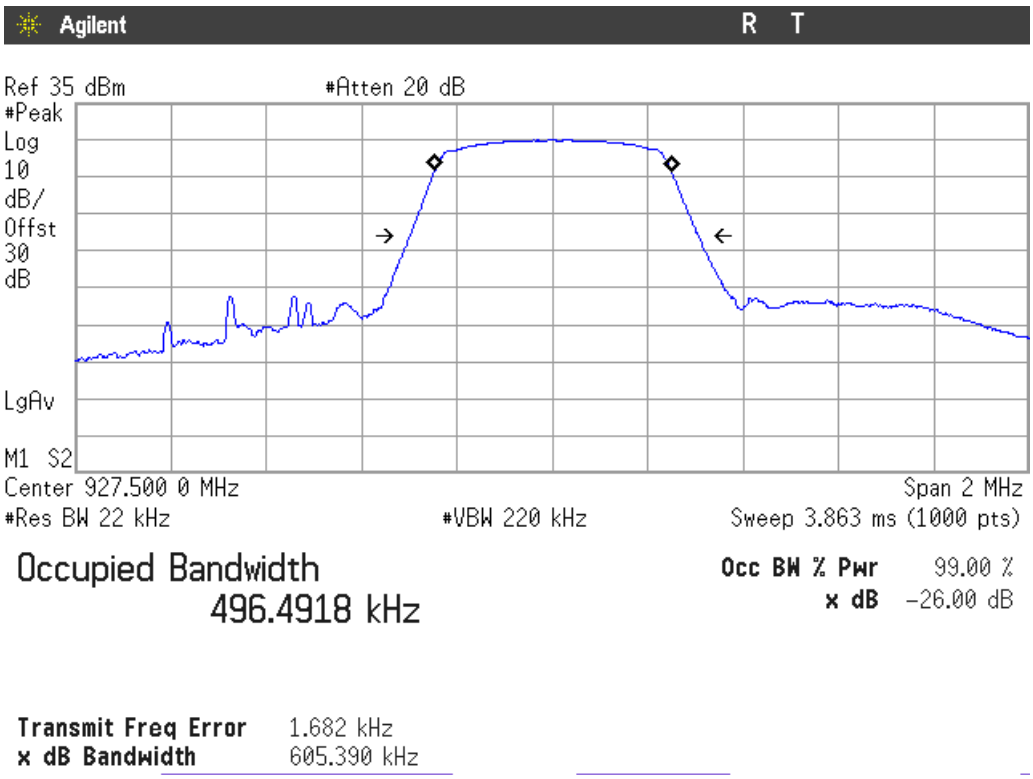
(see next plots).

	Lowest frequency 923.3 MHz	Highest frequency 927.5 MHz
99% bandwidth (kHz)	497.155	496.492
-26 dBc bandwidth (kHz)	607.208	605.390
Measurement uncertainty (kHz)	<± 5.0	

Lowest Channel



Highest channel



Section 15.247 Subclause (a) (2) / RSS-247 5.2. (1). 6 dB Bandwidth

SPECIFICATION

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

RESULTS

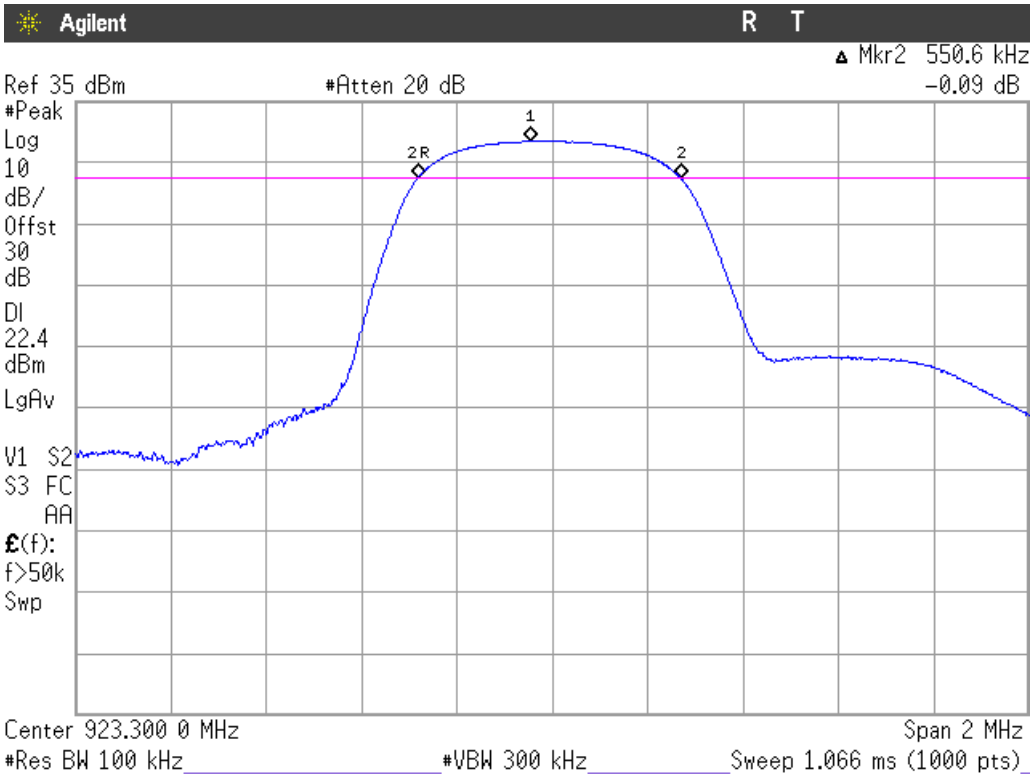
6 dB Bandwidth (see next plots).

	Lowest frequency 923.3 MHz	Highest frequency 927.5 MHz
6 dB Spectrum bandwidth (kHz)	550.6	548.5
Measurement uncertainty (kHz)	<±11.0	

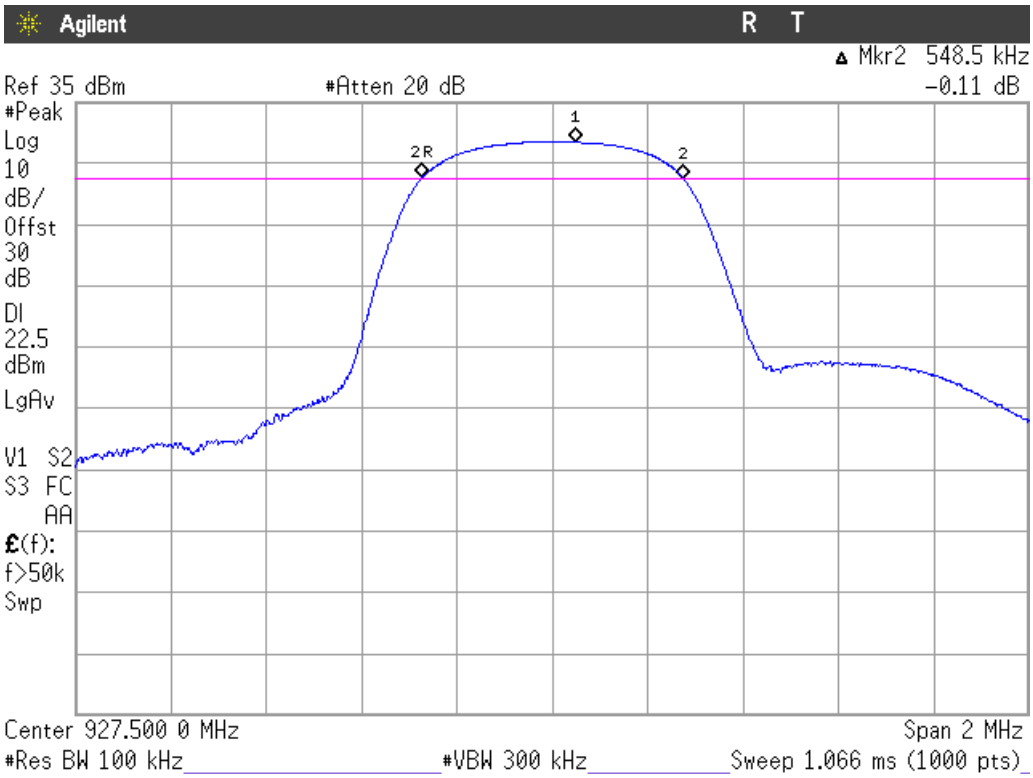
Verdict: PASS

6 dB BANDWIDTH.

Lowest Channel



Highest Channel



Section 15.247 Subclause (b) / RSS-247 5.4. (4). Maximum output power and antenna gain

SPECIFICATION

For systems using digital modulation in the 902-908 MHz band: 1 watt (30 dBm). If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated value, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
The e.i.r.p. shall not exceed 4 W (36 dBm) (Canada).

RESULTS

The maximum conducted (average) output power was measured using the method according to point 9.2.2.2. of Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 558074 D01 DTS Meas Guidance v03r05 dated 04/08/2016.

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

Preliminary tests were done with the equipment operating with the different possible types of power supply and the worst case was with the equipment supplied by DC voltage from AC/DC power supply unit. Results shown below correspond to the equipment supplied by DC voltage from AC/DC power supply unit.

MAXIMUM OUTPUT POWER. Conducted (average) output power. See next plots.

First antenna configuration:

Maximum declared antenna gain: +2.0 dBi.

	Lowest frequency 923.3 MHz	Highest frequency 927.5 MHz
Maximum conducted power (dBm)	27.31	27.34
Maximum EIRP power (dBm)	29.31	29.34
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.

Second antenna configuration:

Maximum declared antenna gain: +11.0 dBi.

	Lowest frequency 923.3 MHz	Highest frequency 927.5 MHz
Maximum conducted power (dBm)	24.45	24.47
Maximum EIRP power (dBm)	35.45	35.47
Measurement uncertainty (dB)	<±0.78	

The maximum directional gain of the antenna is higher than 6 dBi and therefore the maximum output power is required to be reduced from the limit value by a minimum of 5 dB. The maximum possible power adjustment was 24 dBm.

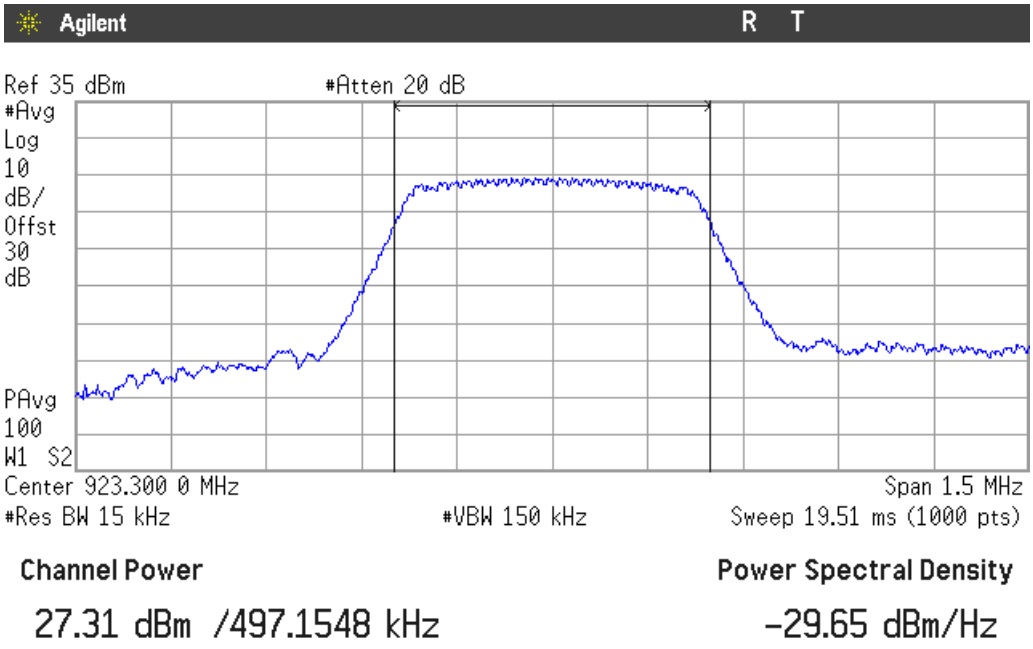
Verdict: PASS

CONDUCTED POWER.

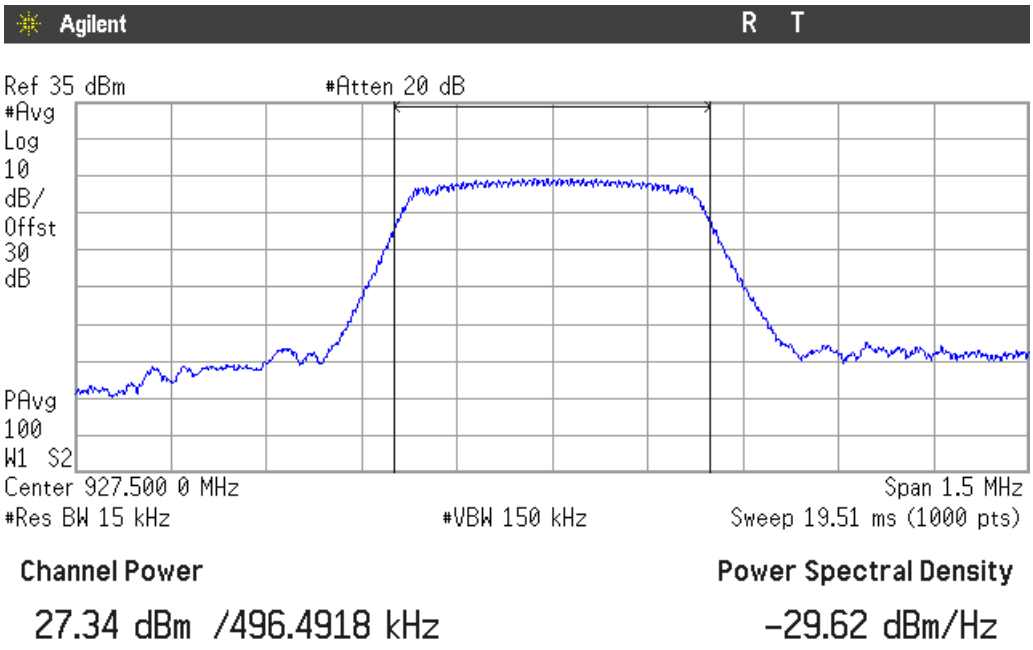
First antenna configuration:

Maximum declared antenna gain: +2.0 dBi.

Lowest frequency



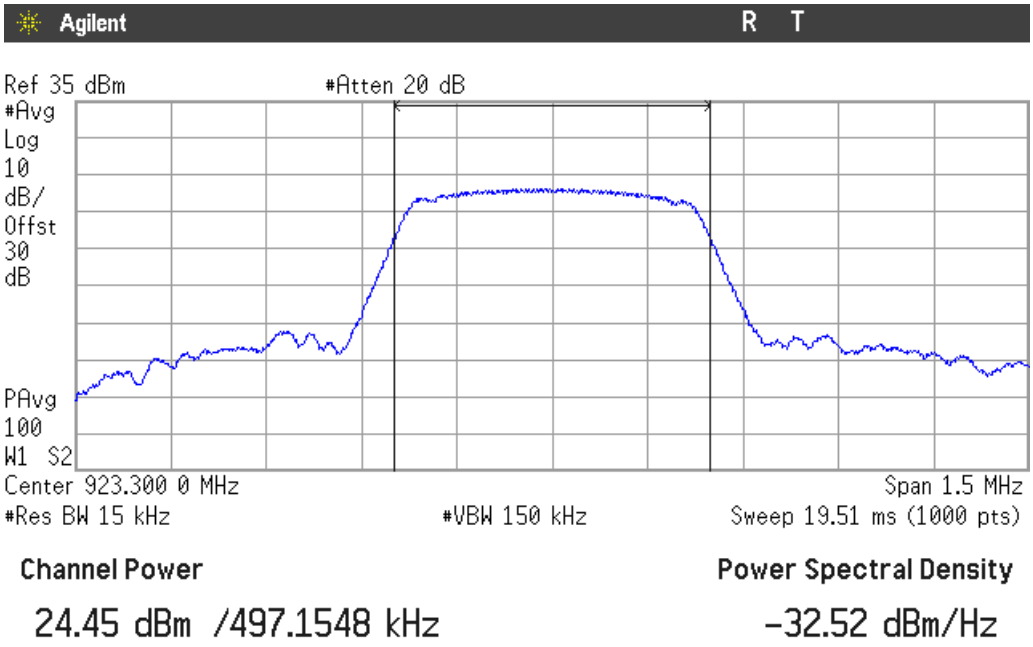
Highest frequency



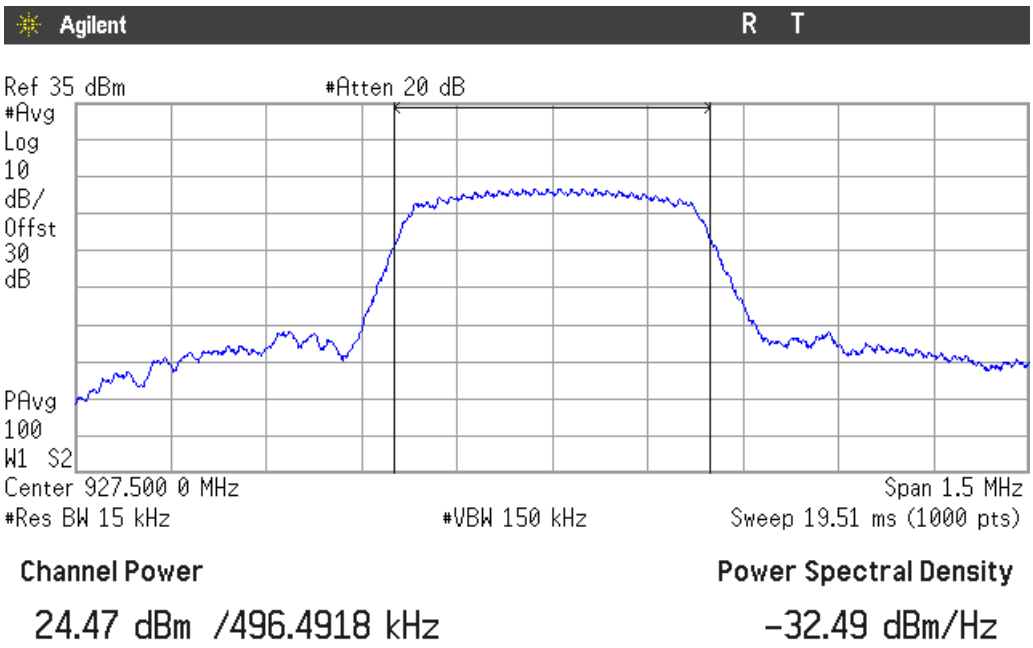
Second antenna configuration:

Maximum declared antenna gain: +11.0 dBi.

Lowest frequency



Highest frequency



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:

Preliminary tests were done with the equipment operating with the different possible types of power supply and the conducted spurious emissions do not depend on the type of power supply. Results shown below correspond to the equipment supplied by DC voltage from AC/DC power supply unit.

Reference Level Measurement

	Lowest frequency 923.3 MHz	Highest frequency 927.5 MHz
Reference Level Measurement (dBm)	28.44	28.48
Measurement uncertainty (dB)	<±0.78	

Lowest frequency 923.3 MHz:

All peaks are more than 20 dB below the limit.

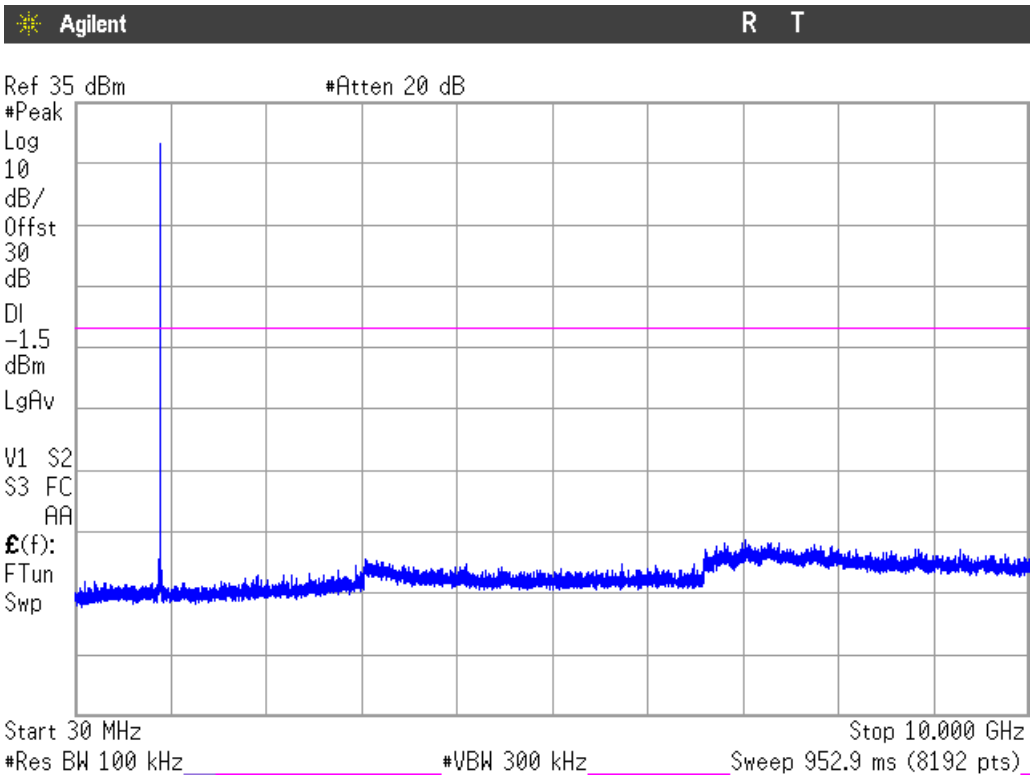
Highest frequency 927.5 MHz:

All peaks are more than 20 dB below the limit.

Measurement uncertainty (dB): < 2.03

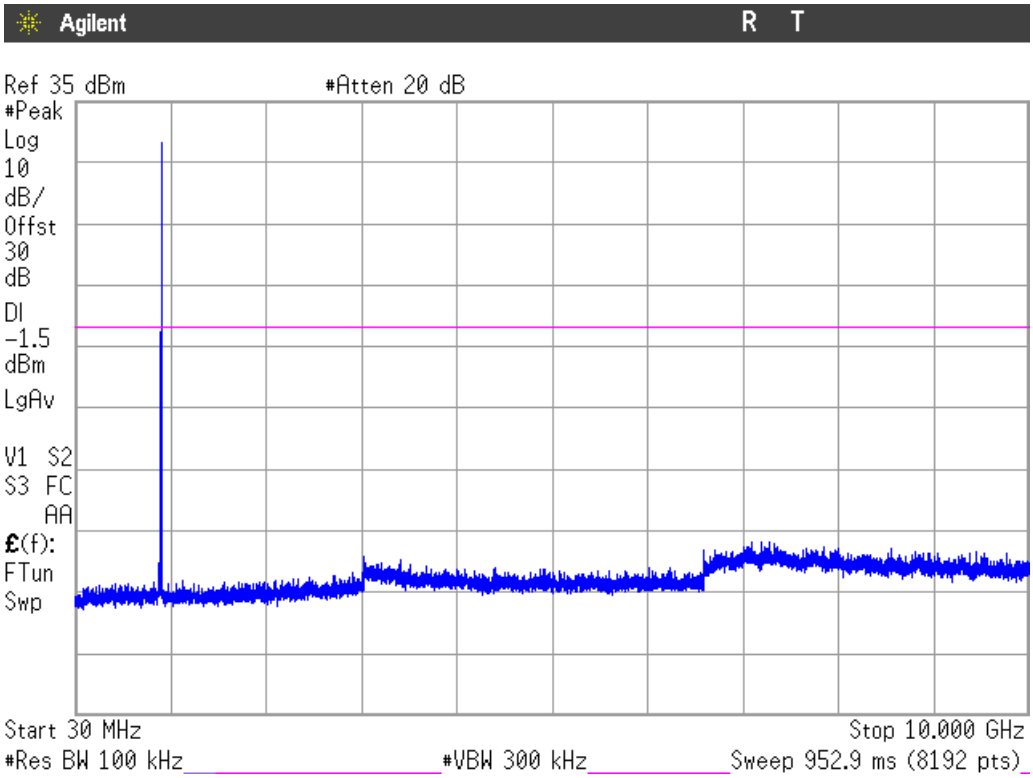
Verdict: PASS

Lowest frequency



Note: The peak shown in the plot above the limit is the carrier frequency.

Highest frequency



Note: The peak shown in the plot above the limit is the carrier frequency.

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

SPECIFICATION

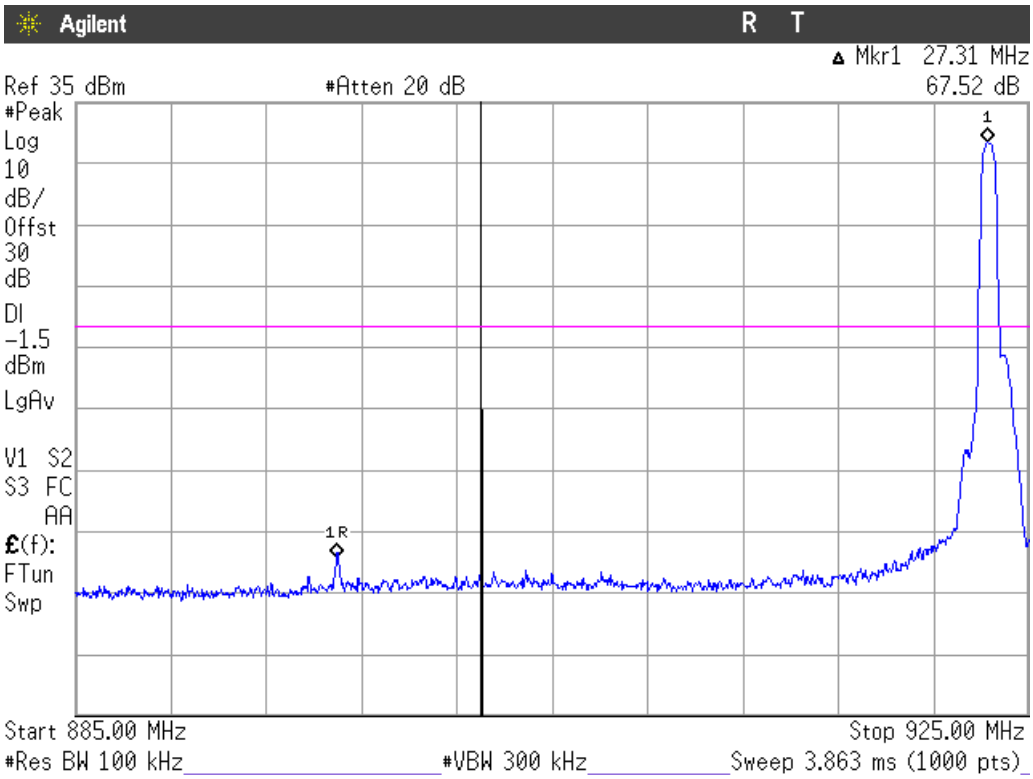
In any 100 kHz bandwidth outside the frequency band in which the digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of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

Preliminary tests were done with the equipment operating with the different possible types of power supply and the conducted spurious emissions do not depend on the type of power supply. Results shown below correspond to the equipment supplied by DC voltage from AC/DC power supply unit.

RESULTS:

1. LOW FREQUENCY SECTION. CONDUCTED.

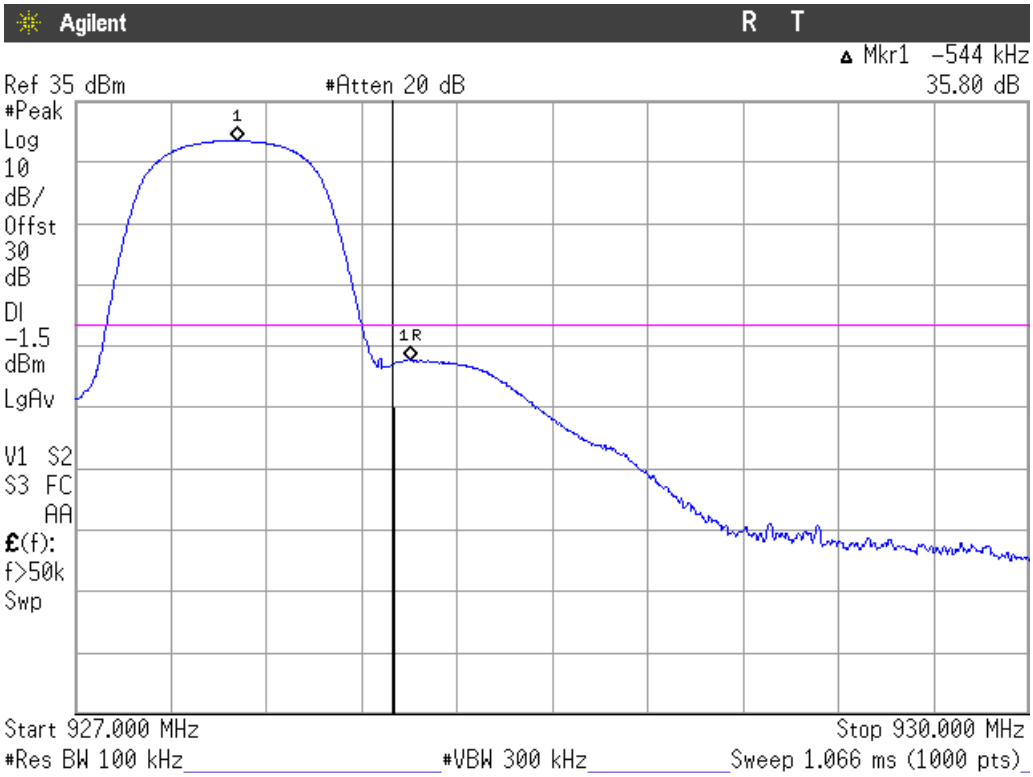
See next plot.



Verdict: PASS

2. HIGH FREQUENCY SECTION. CONDUCTED.

See next plot.



Measurement uncertainty (dB)	< ±2.03

Verdict: PASS

Section 15.247 Subclause (e) / RSS-247 5.2. (2) Power spectral density

SPECIFICATION

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.

RESULTS

The maximum power spectral density level in the fundamental emission was measured using the method AVGPSD-1 (AVG PSD) according to point 10.3. of Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 558074 D01 DTS Meas Guidance v03r05 dated 04/08/2016.

Preliminary tests were done with the equipment operating with the different possible types of power supply and the worst case was with the equipment supplied by DC voltage from AC/DC power supply unit. Results shown below correspond to the equipment supplied by DC voltage from AC/DC power supply unit.

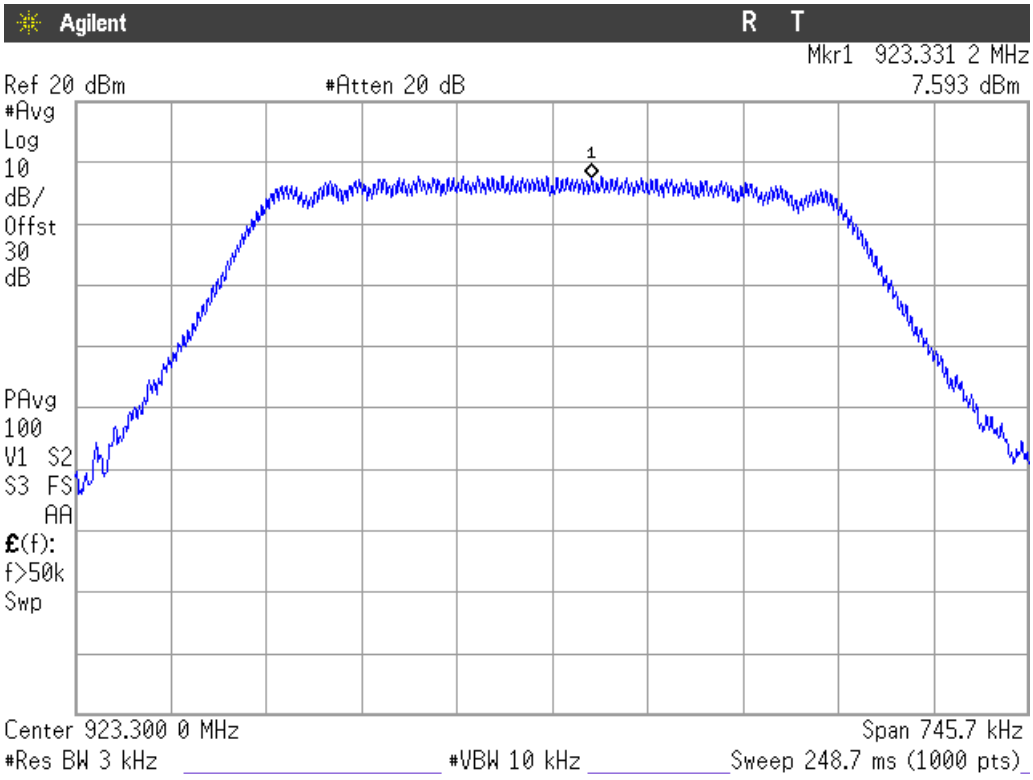
Power spectral density (see next plots).

	Lowest frequency 923.3 MHz	Highest frequency 927.5 MHz
Power spectral density (dBm)	7.593	7.810
Measurement uncertainty (dB)	<±0.78	

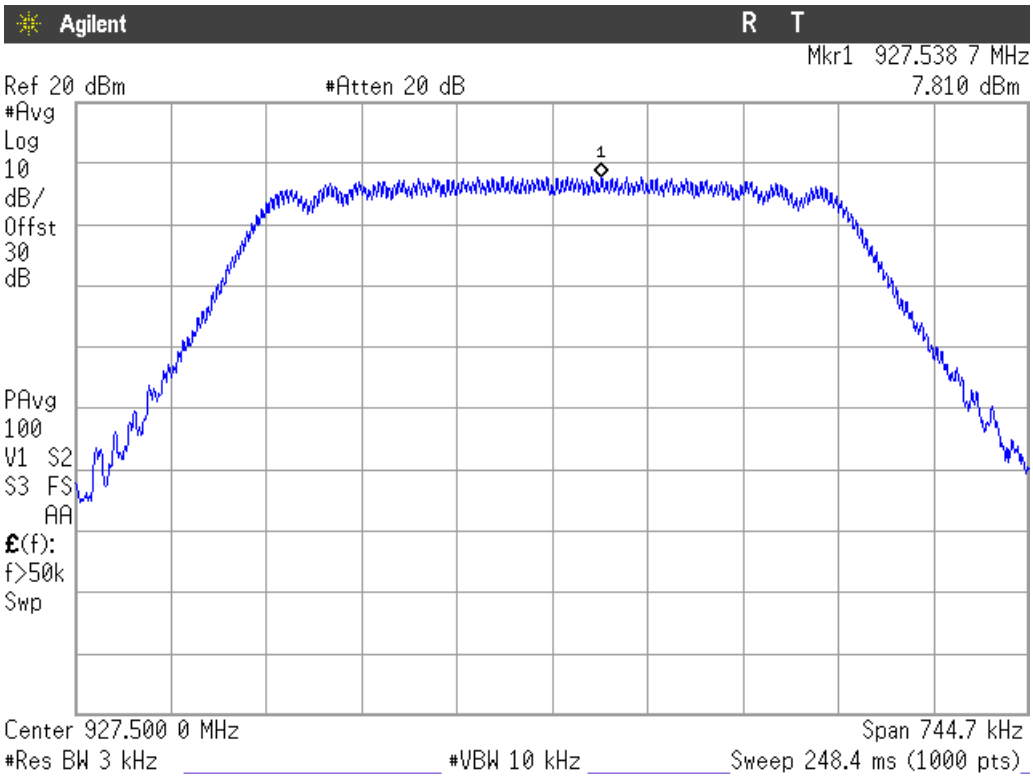
Verdict: PASS

POWER SPECTRAL DENSITY

Lowest Channel



Highest Channel



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.

Preliminary tests were done with the equipment operating with the different possible types of power supply and the worst case was with the equipment supplied by DC voltage from Power over Ethernet (PoE). Results shown below correspond to the equipment supplied by DC voltage from Power over Ethernet (PoE).

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.

First antenna configuration:

1. CHANNEL: LOWEST (923.3 MHz).

Spurious signals closest to limit:

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
831.414	V	Quasi-Peak	33.05	± 3.88
950.239	V	Quasi-Peak	41.12	± 3.88

2. CHANNEL: HIGHEST (927.5 MHz).

Spurious signals closest to limit:

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
836.652	V	Quasi-Peak	35.40	± 3.88
958.581	V	Quasi-Peak	39.97	± 3.88

Second antenna configuration:

1. CHANNEL: LOWEST (923.3 MHz).

Spurious signals closest to limit:

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
831.414	V	Quasi-Peak	27.05	± 3.88
950.239	V	Quasi-Peak	38.92	± 3.88

2. CHANNEL: HIGHEST (927.5 MHz).

Spurious signals closest to limit:

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
836.652	V	Quasi-Peak	28.85	± 3.88

Frequency range 1 GHz-10 GHz

The results in the next tables show the maximum measured levels in the 1-10 GHz range (see next plots).

Spurious signals with peak levels above the average limit (54 dBµV/m at 3 m) are measured with average detector for checking compliance with the average limit.

First antenna configuration:

1. CHANNEL: LOWEST (923.3 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
1.84705	V	Peak	46.81	± 4.87
2.76955	V	Peak	43.91	± 4.87
6.46255	V	Peak	51.32	± 4.87

2. CHANNEL: HIGHEST (927.5 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
1.85485	V	Peak	47.57	± 4.87
2.78275	V	Peak	42.77	± 4.87
6.49345	V	Peak	36.15	± 4.87

Second antenna configuration:

1. CHANNEL: LOWEST (923.3 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
1.84645	V	Peak	46.87	± 4.87
2.76985	V	Peak	42.12	± 4.87
6.46285	H	Peak	41.28	± 4.87

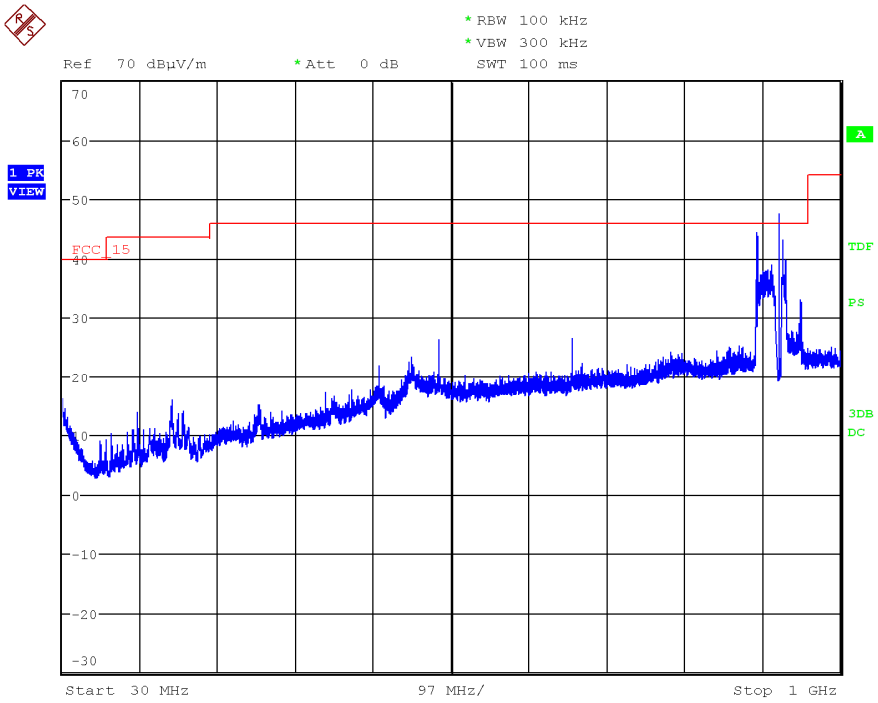
2. CHANNEL: HIGHEST (927.5 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
1.85485	V	Peak	47.65	± 4.87
2.78245	V	Peak	41.91	± 4.87

Verdict: PASS

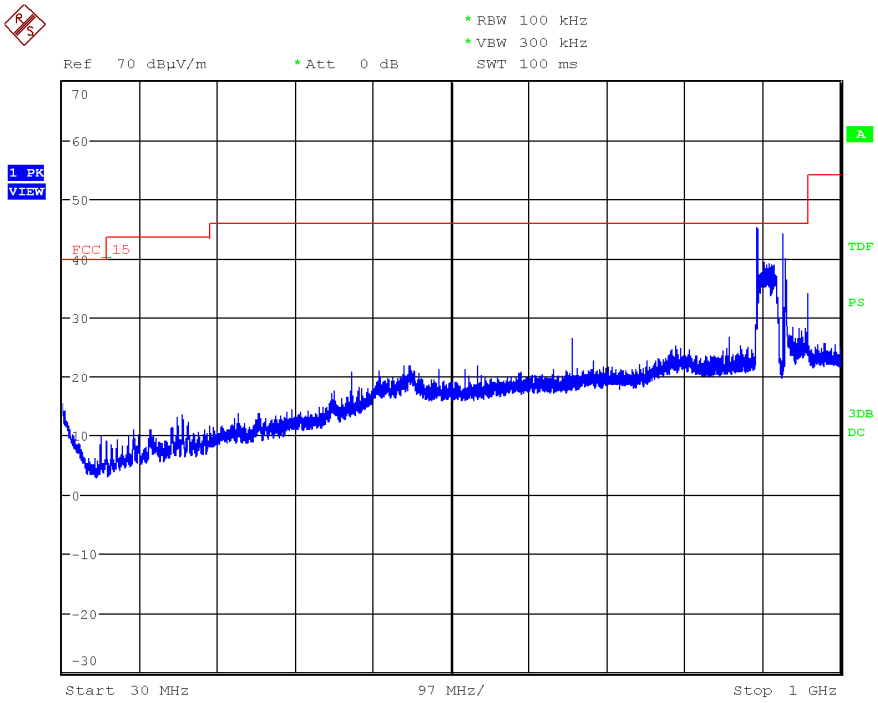
FREQUENCY RANGE 30 MHz-1000 MHz.

First antenna configuration:
CHANNEL: Lowest (923.3 MHz).



Note: The carrier was attenuated using a Notch filter.

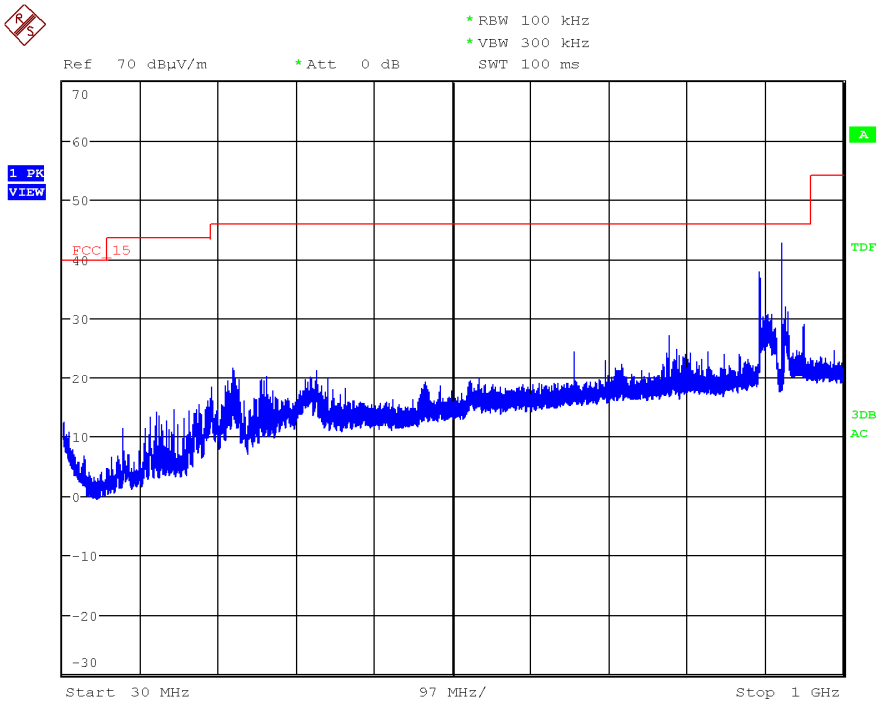
CHANNEL: Highest (927.5 MHz).



Note: The carrier was attenuated using a Notch filter.

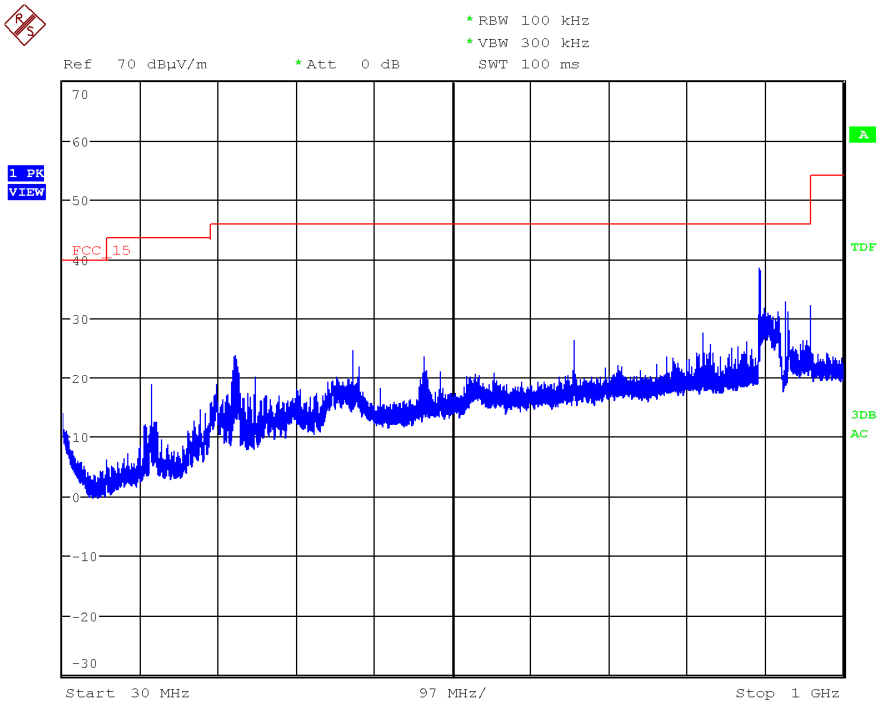
Second antenna configuration:

CHANNEL: Lowest (923.3 MHz).



Note: The carrier was attenuated using a Notch filter.

CHANNEL: Highest (927.5 MHz).

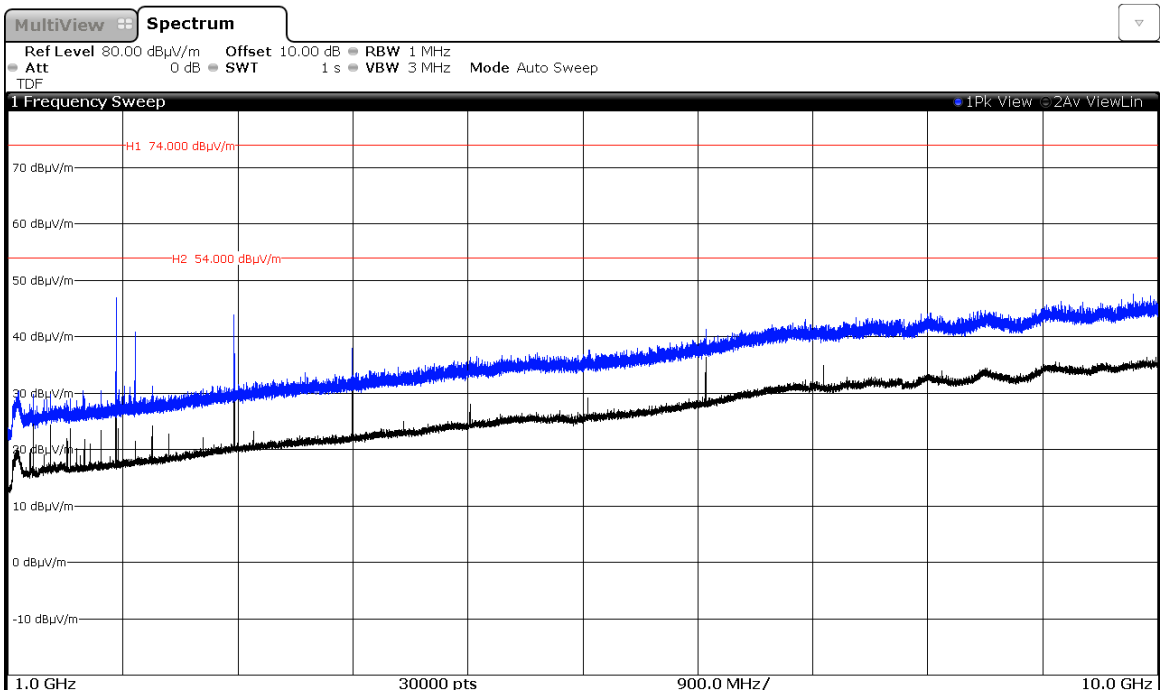


Note: The carrier was attenuated using a Notch filter.

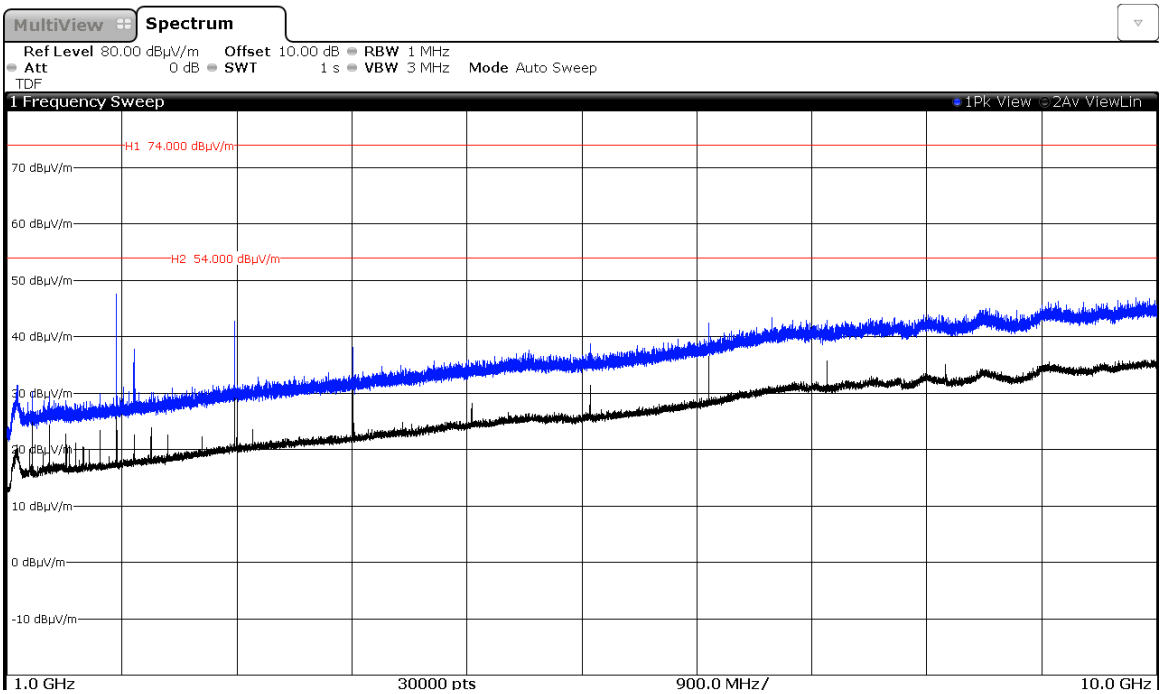
FREQUENCY RANGE 1 GHz to 10 GHz.

First antenna configuration:

CHANNEL: Lowest (923.3 MHz).

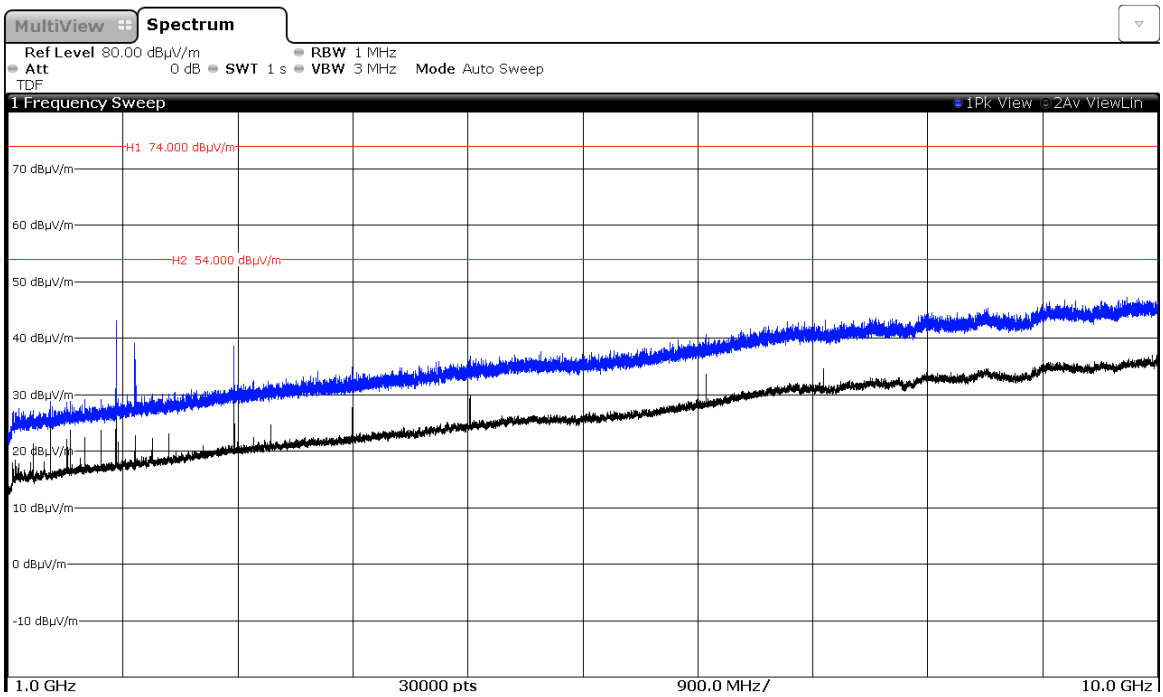


CHANNEL: Highest (927.5 MHz).



Second antenna configuration:

CHANNEL: Lowest (923.3 MHz).



CHANNEL: Highest (927.5 MHz).