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FCC LISTED, REGISTRATION NUMBER: 720267

ISED LISTED REGISTRATION NUMBER ISED 4621A-4 Test report No:

NIE: 58993RRF.002

Test report

USA FCC Part 15.249 & 15.209 CANADA RSS-210, RSS-Gen

Radio Frequency Devices. Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, 5725 - 5875 MHz, and 24.0 – 24.25 GHz.

Trademark JCM Model and /or type reference RB-G-RX10C Cther identification of the product FCC ID: U5Z-RB-G-RX10C Features Power supply: 12/24V ac/dc Power supply: 12/24V ac/dc Power supply range: 9-35Vdc / 8-28Vac Frequency: Multifrequency system 916MHz auto-adjustable Operating consumption: Max 100mA Radiated power < 25mW Range (in open field): 50m Applicant JCM TECHNOLOGIES, S.A. C/Morgades, 46 Bajos, 08500, Vic, Barcelona (SPAIN) Test method requested, standard USA FCC Part 15.249 10-1-17 Edition: Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz. USA FCC Part 15.209 10-1-17 Edition: Radiated emission limits; general requirements. CANADA RSS-210 Issue 9 (August 2016). CANADA RSS-210 Issue 9 (August 2016). CANADA RSS-Gen Issue 5 (April 2018). ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices. Summary IN COMPLIANCE Approved by (name / position & signature) A. Llamas RF Lab. Manager		
Model and /or type reference RB-G-RX10C Other identification of the product IC: 8572A-RBGRX10C Features Power supply: 12/24V ac/dc Power supply range: 9-35Vdc / 8-28Vac Frequency: Multifrequency system 916MHz auto- adjustable Operating consumption: Max 100mA Radiated power < 25mW Range (in open field): 50m Applicant JCM TECHNOLOGIES, S.A. C/Morgades, 46 Bajos, 08500, Vic, Barcelona (SPAIN) Test method requested, standard USA FCC Part 15.249 10-1-17 Edition: Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz. USA FCC Part 15.209 10-1-17 Edition: Radiated emission limits; general requirements. CANADA RSS-210 Issue 9 (August 2016). CANADA RSS-Gen Issue 5 (April 2018). ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices. Summary IN COMPLIANCE Approved by (name / position & signature) A Llamas	Identification of item tested	Safety edge wireless system consisting in a receiver
Other identification of the product FCC ID: U5Z-RB-G-RX10C IC: 8572A-RBGRX10C Features Power supply: 12/24V ac/dc Power supply range: 9-35Vdc / 8-28Vac Frequency: Multifrequency system 916MHz auto- adjustable Operating consumption: Max 100mA Radiated power < 25mW Range (in open field): 50m Applicant JCM TECHNOLOGIES, S.A. C/Morgades, 46 Bajos, 08500, Vic, Barcelona (SPAIN) Test method requested, standard USA FCC Part 15.249 10-1-17 Edition: Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz. USA FCC Part 15.209 10-1-17 Edition: Radiated emission limits; general requirements. CANADA RSS-210 Issue 9 (August 2016). CANADA RSS-Gen Issue 5 (April 2018). ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices. Summary IN COMPLIANCE Approved by (name / position & signature) A. Llamas	Trademark	JCM
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	Summary	IN COMPLIANCE
	Approved by (name / position & signature)	

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Date of issue 2018-10-31 Report template No FDT08_21

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Competences and guarantees

DEKRA Testing and Certification 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 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.

DEKRA Testing and Certification 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: ISED 4621A-4.

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

DEKRA Testing and Certification 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 at the time of performance of the test.

DEKRA Testing and Certification 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 Testing and Certification and the Accreditation Bodies.

Uncertainty

Uncertainty (factor k=2) was calculated according to the DEKRA Testing and Certification 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
58993/001	Receiver	RB-G-RX10C		2018-10-15
58993/002	Antenna			2018-10-15

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

All radiated tests indicated in Appendix A.

Sample S/02 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
58993/003	Receiver with antenna connector	RB-G-RX10C		2018-10-15

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

All conducted tests indicated in Appendix A.

Test sample description

Description of product:	916MHz multifrequency receiver for safety	916MHz multifrequency receiver for safety edge connection		
Rated power supply:	Voltage and Frequency			
	DC:			
Software version:	RBAND3R_ULME_02.04.11.00			
Hardware version:	S-RB3R916K10MEL			
Mounting position:	☐ Table top equipment			
	☐ Wall/Ceiling mounted equipment			
	Floor standing equipment			
	☐ Hand-held equipment			
	Other: Door installation			
Accessories (not part of the test item):	Description	Туре	Manufacturer	



Identification of the client

JCM TECHNOLOGIES, S.A.

C/Morgades, 46 Bajos, 08500, Vic, Barcelona (SPAIN).

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2018-10-16
Date (finish)	2018-10-17

Document history

Report number	Date	Description
58993RRF.002	2018-10-31	First release

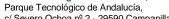
Environmental conditions

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

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 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar
Shielding effectiveness	> 100 dB
Electric insulation	> 10 kΩ
Reference resistance to earth	<1Ω
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 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 35 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar
Shielding effectiveness	> 100 dB
Electric insulation	> 10 kΩ
Reference resistance to earth	<1Ω

Remarks and comments

The tests have been performed by the technical personnel: José Alberto Aranda and Miguel Ángel Torres. Used instrumentation:

Conducted Measurements

		Last Cal. date	Cal. due date	
1.	Spectrum analyser Agilent E4440A	2017/10	2019/10	
2.	DC power supply R&S NGPE 40/40	2018/02	2021/02	
Padia	tod Magauramanta			
Sadia	ted Measurements			

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	2018/07	2021/07		
3.	Multi Device Controller MESSTECHNIK DAV-RR	N.A.	N.A.		
4.	Double-ridge Guide Horn antenna 1-18 GHz SCHWARZBECK BBHA 9120 D	2018/01	2021/01		
5.	Spectrum analyser Rohde & Schwarz FSV40	2018/02	2020/02		
6.	EMI Test Receiver R&S ESR7	2017/08	2019/08		
7.	RF pre-amplifier 30 MHz-6 GHz Bonn Elektronik BLNA 0360-01N	2018/07	2019/07		
8.	RF pre-amplifier 1-18 GHz Bonn Elektronik BLMA 0118-3A	2018/03	2019/03		

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Testing verdicts

Not applicable :	N/A
Pass :	Р
Fail :	F
Not measured :	N/M

Summary

FCC PART 15 / RSS-210 PARAGRAPH		
Requirement – Test case	Verdict	Remark
FCC 15.249 Subclause (a) / RSS-210 B.10. (a) Field strength of fundamental and harmonics emissions	Р	
FCC 15.249 Subclause (d) / RSS-210 B.10. (b) Emissions radiated outside of the specific frequency bands	Р	
Supplementary information and remarks:		
None.		

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Appendix A: Test results

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TEST CONDITIONS

Power supply (V):

Vnominal = 12/24 ac/dc

Type of power supply = ac/dc voltage from external power supply.

Type of antenna = Pluggable.

Declared Gain for antenna = 0 dBi

TEST FREQUENCIES:

Lowest channel: 902.30 MHz Middle channel: 915.65 MHz Highest channel: 927.70 MHz

CONDUCTED MEASUREMENTS

The equipment under test was set up inside a climatic chamber and it is connected to the spectrum analyzer using low loss RF cable.



The measurements are corrected taking into account the cable loss.

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).

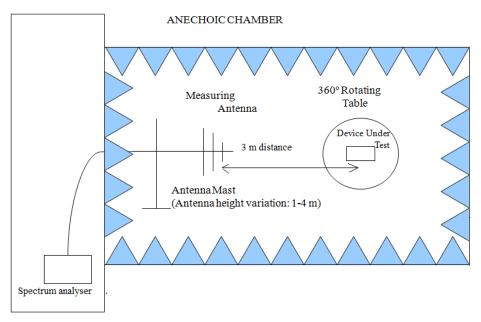
For radiated emissions in the range 1 GHz-10 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

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 360° 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.

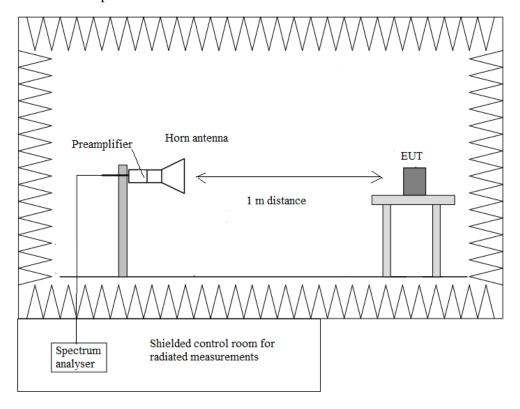


Radiated measurements setup f < 1 GHz



Shielded Control Room For $Radiated \, Measurements \,$

Radiated measurements setup f > 1 GHz



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Occupied Bandwidth

RESULTS

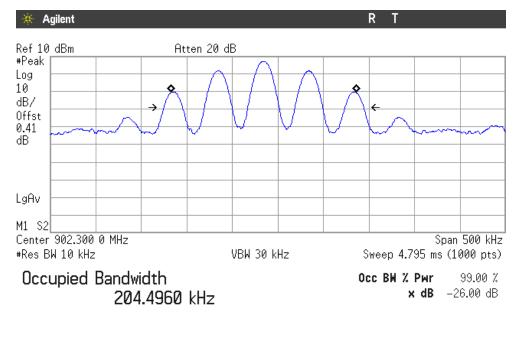
(see next plots).

	Lowest frequency	Middle frequency	Highest frequency
	902.30 MHz	915.65 MHz	927.70 MHz
99% bandwidth (kHz)	204.496	204.431	204.595
-26 dBc bandwidth (kHz)	220.727	220.359	220.398
Measurement uncertainty (kHz)		<±0.83	

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Lowest Channel



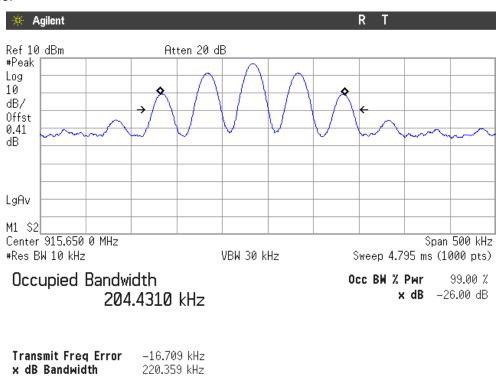
Transmit Freq Error

x dB Bandwidth

-15.445 kHz

220.727 kHz

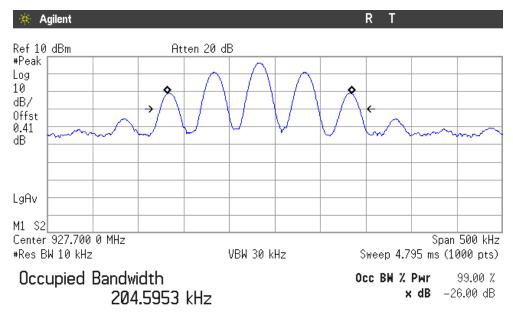
Middle Channel



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Highest channel



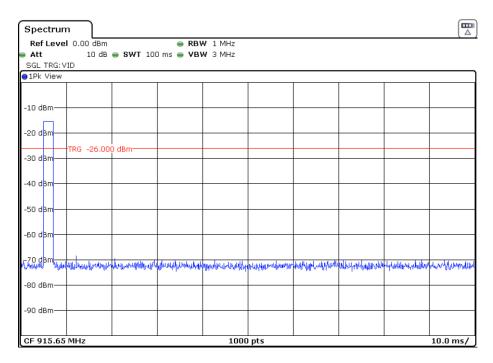
Transmit Freq Error -16.635 kHz x dB Bandwidth 220.398 kHz



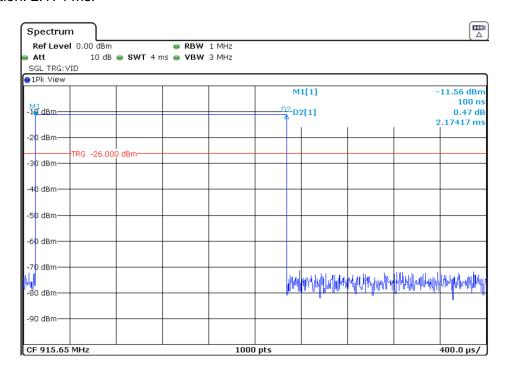
Duty cycle

Computation of duty-cycle correction factor

Number of pulses within 100 ms: 1



Pulse duration: 2.174 ms.



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2018-10-31

Duty-cycle correction factor calculation.

Sub-pulse	Duration (ms)	Number of pulses	Sub-pulse "On Time" (ms)
1	2.174	1	2.174
		TOTAL ON TIME	2.174

Duty cycle correction factor δ = 2.174/ 100 = 0.02174

 δ = 20 log (0.02174) = -33.25 dB

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Section 15.249 Subclause (a) / RSS-210 B.10. (a) Field strength of Fundamental.

SPECIFICATION

The field strength of emissions from intentional radiators shall comply with the following

Fundamental frequency (MHz)	Field strength of fundamental (mV/m)	Field strength (dBµV/m)	Measurement distance (m)
902 - 928	50	93.98	3
2400 – 2483.5	50	93.98	3
5725 - 5875	50	93.98	3
24000-24250	250	107.96	3

For frequencies above 1000 MHz, the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

RESULTS

The transmission is pulsed so the average values of transmitter fundamental emissions are calculated from the measured peak values using the duty cycle correction factor δ as indicated in standard ANSI C63.10-2013.

	Lowest frequency	Middle frequency	Highest frequency
	902.30 MHz	915.65 MHz	927.70 MHz
Field strength (dBµV/m) peak	107.95	107.24	107.58
Duty cycle correction factor δ	-33.25	-33.25	-33.25
Field strength (dBµV/m) average	74.70	73.99	74.33
Measurement uncertainty (dB)		<±3.88	

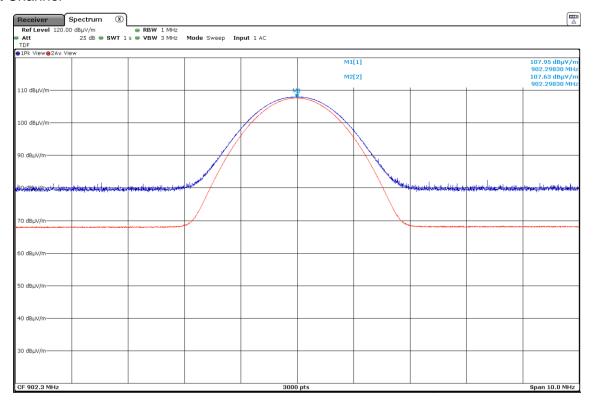
Verdict: PASS

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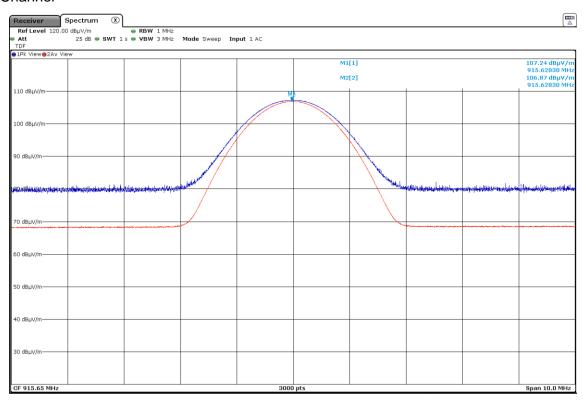


FIELD STRENGTH

Lowest Channel



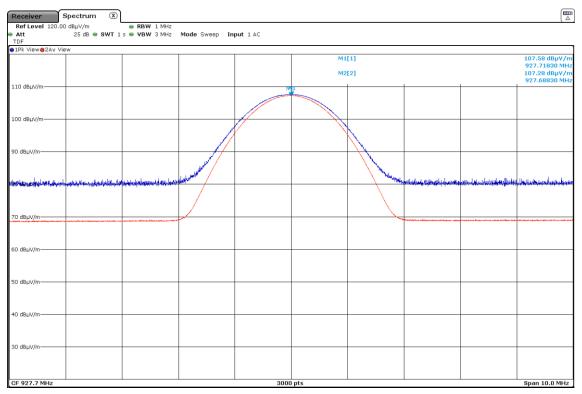
Middle Channel



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Highest Channel





Section 15.249 Subclause (a) and (d) / RSS-210 B.10 (b) Emissions limitations radiated (Transmitter).

SPECIFICATION

The field strength of harmonics from intentional radiators shall comply with the following

Fundamental frequency (MHz)	Field strength of harmonics (µV/m)	Field strength of harmonics (dBµV/m)	Measurement distance (m)
902 - 928	500	54	3
2400 – 2483.5	500	54	3
5725 - 5875	500	54	3
24000-24250	2500	67.96	3

Emissions radiated outside of the specific frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of fundamental or to the general radiated emission limits specified in section 15.209:

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

Whichever is the lesser attenuation.

RESULTS:

The situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° 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.

The transmission is pulsed so the average values of spurious emissions are calculated from the measured peak values using the duty cycle correction factor δ as indicated in standard ANSI C63.10-2013.

DEKRA

Frequency range 30 MHz-1000 MHz.

1. CHANNEL: LOWEST (902.30 MHz).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
145.673	Н	Quasi-Peak	32.4	<±3.88
206.815	V	Quasi-Peak	39.8	<±3.88
538.329	V	Quasi-Peak	37.1	<±3.88
590.321	V	Quasi-Peak	40.0	<±3.88
642.313	V	Quasi-Peak	38.7	<±3.88
694.337	V	Quasi-Peak	36.0	<±3.88
746.297	V	Quasi-Peak	35.9	<±3.88
850.345	V	Quasi-Peak	36.7	<±3.88
895.838	V	Quasi-Peak	37.5	<±3.88
954.329	V	Quasi-Peak	35.0	<±3.88

2. CHANNEL: MIDDLE (915.65 MHz).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
202.870	Н	Quasi-Peak	32.1	<±3.88
551.682	V	Quasi-Peak	36.5	<±3.88
577.646	V	Quasi-Peak	35.1	<±3.88
603.642	V	Quasi-Peak	37.8	<±3.88
655.634	V	Quasi-Peak	36.8	<±3.88
707.658	V	Quasi-Peak	36.6	<±3.88
746.685	Н	Quasi-Peak	32.2	<±3.88
837.638	V	Quasi-Peak	36.5	<±3.88
941.622	V	Quasi-Peak	37.4	<±3.88
967.651	V	Quasi-Peak	32.7	<±3.88



3. CHANNEL: HIGHEST (927.70 MHz).

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
233.652	V	Quasi-Peak	37.0	<±3.88
395.286	V	Quasi-Peak	31.8	<±3.88
589.706	V	Quasi-Peak	36.1	<±3.88
615.702	V	Quasi-Peak	35.8	<±3.88
667.727	V	Quasi-Peak	39.8	<±3.88
719.686	V	Quasi-Peak	33.7	<±3.88
758.680	V	Quasi-Peak	33.5	<±3.88
850.216	V	Quasi-Peak	33.1	<±3.88
940.685	V	Quasi-Peak	39.4	<±3.88
953.689	V	Quasi-Peak	37.8	<±3.88

Frequency range 1 GHz-10 GHz

All detected signals are harmonics of the fundamental emission.

1. CHANNEL: LOWEST (902.30 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
		Peak	63.22	<±4.87
6.31585	Н	Average (*)	29.97	<±4.87

^{(*):} The average values are calculated from the measured peak values using the duty cycle correction

All other peaks are more than 20 dB below the limit.



2. CHANNEL: MIDDLE (915.65 MHz).

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
0.40075		Peak	63.64	<±4.87
6.40975	Н	Average (*)	30.39	<±4.87

^{(*):} The average values are calculated from the measured peak values using the duty cycle correction factor δ .

All other peaks are more than 20 dB below the limit.

3. CHANNEL: HIGHEST (927.70 MHz).

fr	Spurious requency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
			Peak	60.73	<±4.87
6.49345	H	Average (*)	27.48	<+4.87	

^{(*):} The average values are calculated from the measured peak values using the duty cycle correction factor δ .

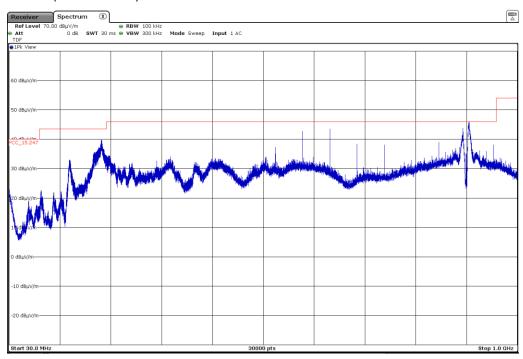
All other peaks are more than 20 dB below the limit.

Verdict: PASS



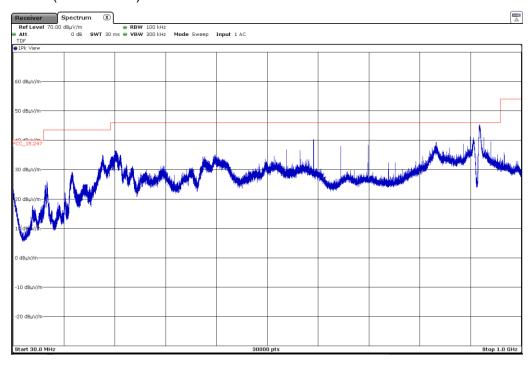
FREQUENCY RANGE 30 MHz-1000 MHz.

CHANNEL: Lowest (902.30 MHz).



Note: The carrier was attenuated using a notch filter. The highest peak shown in the plot is the carrier frequency.

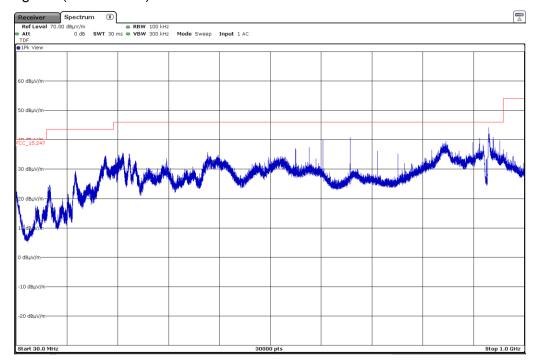
CHANNEL: Middle (915.65 MHz).



Note: The carrier was attenuated using a notch filter. The highest peak shown in the plot is the carrier frequency.



CHANNEL: Highest (927.70 MHz).

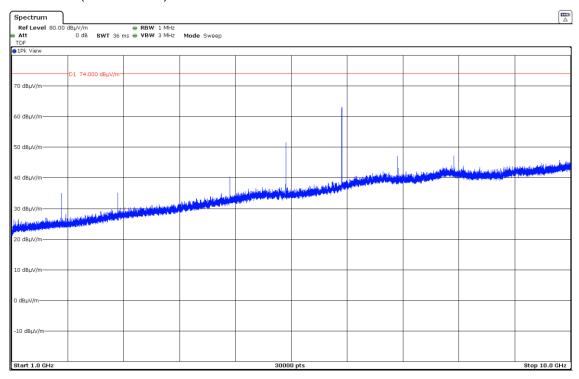


Note: The carrier was attenuated using a notch filter. The highest peak shown in the plot is the carrier frequency.

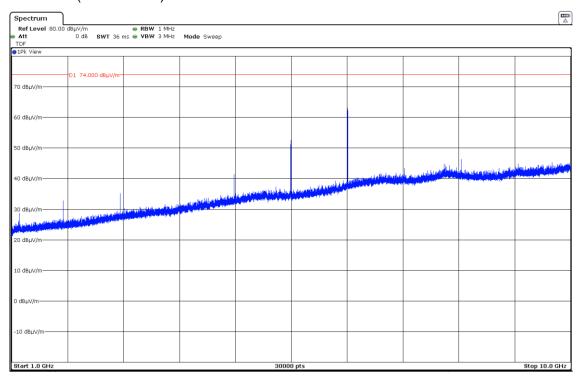


FREQUENCY RANGE 1 GHz to 10 GHz.

CHANNEL: Lowest (902.30 MHz).



CHANNEL: Middle (915.65 MHz).





CHANNEL: Highest (927.70 MHz).

