Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456





FCC LISTED, REGISTRATION NUMBER: 720267

ISED LISTED REGISTRATION NUMBER 4621A-3 Test report No: NIE: 57317RRF.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.

Identification of item tested	Environment and activity sensor		
Trademark	Thingsee TAG		
Model and /or type reference	SDR0201		
Other identification of the product	FCC ID: 2AEU3-TSTAG		
Features	Not provided data		
Manufacturer	HALTIAN PRODUCTS OY		
	Yrttipellontie 1 D, 90230 Oulu, Finland		
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.		
	USA FCC Part 15.209 10-1-17 Edition: Radiated emission limits; general requirements.		
	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 04/05/2017.		
	ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.		
Approved by (name / position & signature)	A. Llamas RF Lab. Manager		

Report No: (NIE) 57317RRF.002

DEKRA Testing and Certification, S.A.U.
Parque Tecnológico de Andalucía,
c/ Severo Ochoa nº 2 ⋅ 29590 Campanillas ⋅ Málaga ⋅ España
C.I.F. A29 507 456



Date of issue	2018-06-28
Report template No	FDT08_21

DEKRA Testing and Certification, S.A.U.
Parque Tecnológico de Andalucía,
c/ Severo Ochoa nº 2 ⋅ 29590 Campanillas ⋅ Málaga ⋅ España
C.I.F. A29 507 456



Index

Competences and guarantees	4
General conditions	
Uncertainty	
Usage of samples	
Test sample description	
Identification of the client	6
Testing period and place	6
Document history	6
Environmental conditions	6
Remarks and comments	7
Testing verdicts	8
Summary	8
Appendix A: Test results	g

C.I.F. A29 507 456



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 conjunction 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-3.

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.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA Testing and Certification.

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.
- 3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA Testing and Certification.
- 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 M/01 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
57317/010	Environment and activity sensor with antenna connector	SDR0201		2018-06-05

DEKRA Testing and Certification, S.A.U.

Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456



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

All conducted tests indicated in Appendix A.

Sample M/02 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
57317/004	Environment and activity sensor	SDR0201		2018-06-05

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

All radiated tests indicated in Appendix A.

Test sample description

Description of product:	Sensor device for collecting environmental data such as temperature and humidity. Capable for activity detection and steps counting as well. Data can be collected over the BLE interface						
Rated power supply:	Voltage and Frequency		Reference poles				
	, ,	go aa	L1	L2	L3	N	PE
		AC:					
		AC:					
		DC:2.2-3.2 V					
		DC:					
Software version:	SW01-R						
Hardware version:	SDR0201						
Mounting position:	Table top equipment						
	☐ Wall/Ceiling mounted equipment						
	Floor standing equipment						
	☐ Hand-held equipment						
		Other:					
Accessories (not part of the test item):	Description Type Manufactur				cturer		
,	USB cable			Haltia		Haltian	



Identification of the client

HALTIAN PRODUCTS OY

Yrttipellontie 1 D, 90230 Oulu, Finland.

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2018-06-05
Date (finish)	2018-06-06

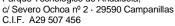
Document history

Report number	Date	Description
57317RRF.002	2018-06-28	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, Ignacio Cabra and Carlos Alberto Contreras.

Used instrumentation:

Conducted Measurements

		Last Cal. date	Cal. due date
1.	Spectrum analyser Agilent PSA E4440A	2017/10	2019/10
2.	DC power supply R&S NGPE 40/40	2018/02	2021/02

Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456



Radiated Measurements

radia	ited 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	2017/07	2020/04
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	2017/03	2020/03
6.	EMI Test Receiver R&S ESR7	2016/07	2018/07
7.	Spectrum analyser Rohde & Schwarz FSV40	2017/07	2019/07
8.	RF pre-amplifier 30 MHz-6 GHz Bonn Elektronik BLNA 0360-01N	2017/07	2018/07
9.	RF pre-amplifier 1-18 GHz Bonn Elektronik BLMA 0118-1M	2018/03	2019/03
10.	RF pre-amplifier 18-40 GHz BONN ELEKTRONIK BLMA 1840-1M	2018/03	2019/03

Testing verdicts

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

Summary

FCC PART 15 PARAGRAPH / RSS-247				
Requirement – Test ca	se	Verdict	Remark	
Section 15.247 Subclause (a) (2) / RSS-247 5.2. (a)	6 dB Bandwidth	Р		
Section 15.247 Subclause (b) / RSS-247 5.4. (d)	Maximum output power and antenna gain	Р		
Section 15.247 Subclause (d) / RSS-247 5.5	Emission limitations conducted (Transmitter)	Р		
Section 15.247 Subclause (d) / RSS-247 5.5.	Band-edge emissions compliance (Transmitter)	Р		
Section 15.247 Subclause (e) / RSS-247 5.2. (b)	Power spectral density	Р		
Section 15.247 Subclause (d) / RSS-247 5.5.	Emission limitations radiated (Transmitter)	Р		
Supplementary information and remarks:				

Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456



Appendix A: Test results

DEKRA Testing and Certification, S.A.U.
Parque Tecnológico de Andalucía,
c/ Severo Ochoa nº 2 ⋅ 29590 Campanillas ⋅ Málaga ⋅ España
C.I.F. A29 507 456



INDEX

TEST CONDITIONS	11
Occupied Bandwidth	13
Section 15.247 Subclause (a) (2) / RSS-247 5.2. (a). 6 dB Bandwidth	15
Section 15.247 Subclause (b) / RSS-247 5.4. (d). Maximum output power and antenna gain	17
Section 15.247 Subclause (d) / RSS-247 5.5. Emission limitations conducted (Transmitter)	20
Section 15.247 Subclause (d) / RSS-247 5.5. Band-edge emissions compliance (Transmitter)	23
Section 15.247 Subclause (e) / RSS-247 5.2. (b) Power spectral density	25
Section 15.247 Subclause (d) / RSS-247 5.5. Emission limitations radiated (Transmitter)	28

DEKRA Testing and Certification, S.A.U.

Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456



TEST CONDITIONS

Power supply (V):

Vnominal = 3 Vdc

Type of power supply = DC voltage from internal battery.

Type of antenna = Internal antenna.

Declared Gain for antenna (maximum) = -1.0 dBi.

TEST FREQUENCIES:

Lowest channel: 2402 MHz Middle channel: 2440 MHz Highest channel: 2480 MHz

The test set-up was made in accordance to the general provisions of FCC DTS Measurement 558074 D01 DTS Meas Guidance v04 dated 04/05/2017.

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

CONDUCTED MEASUREMENTS

The equipment under test was set up in a shielded room and it is directly connected to the spectrum analyzer.



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).

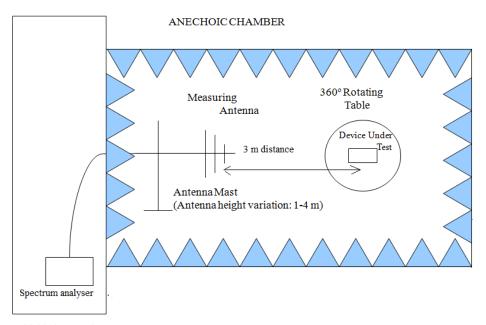
For radiated emissions in the range 1 GHz-25 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

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 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.

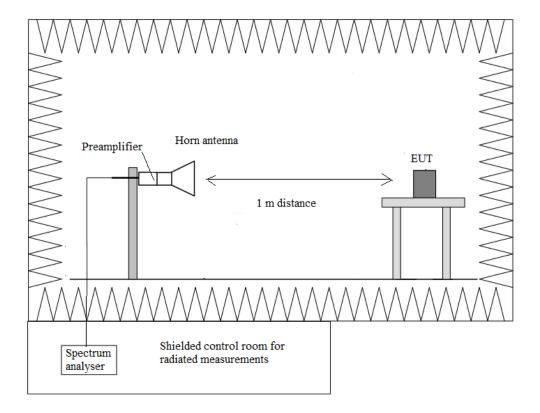


Radiated measurements setup f < 1 GHz



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

Radiated measurements setup f > 1 GHz





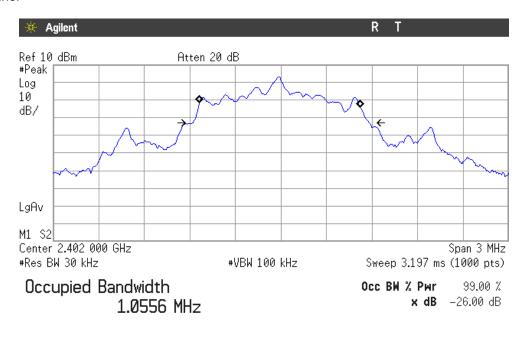
Occupied Bandwidth

RESULTS:

(see next plots).

	Lowest frequency	Middle frequency	Highest frequency
	2402 MHz	2440 MHz	2480 MHz
99% bandwidth (MHz)	1.0556	1.0600	1.0602
-26 dBc bandwidth (MHz)	1.1580	1.2110	1.1990
Measurement uncertainty (kHz)	<± 5		

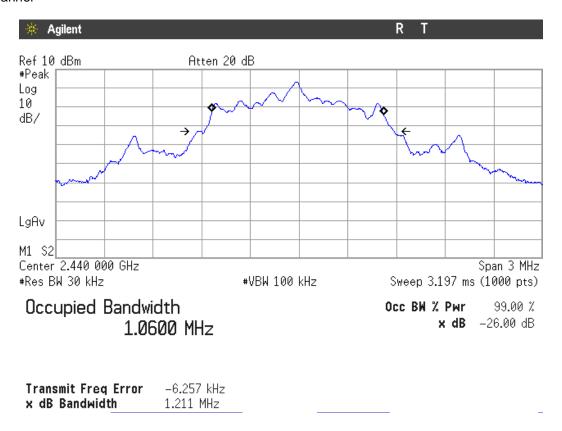
Lowest Channel



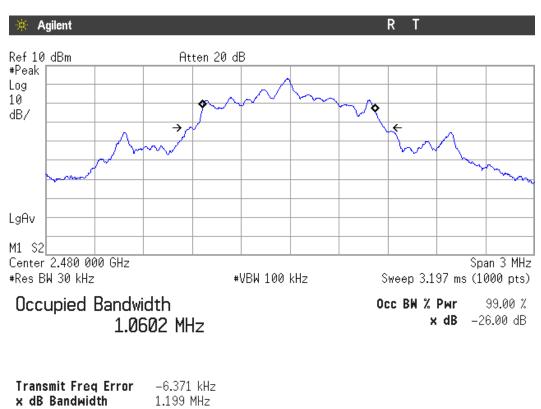
Transmit Freq Error -6.985 kHz x dB Bandwidth 1.158 MHz

DEKRA

Middle Channel



Highest channel





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

SPECIFICATION

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

RESULTS:

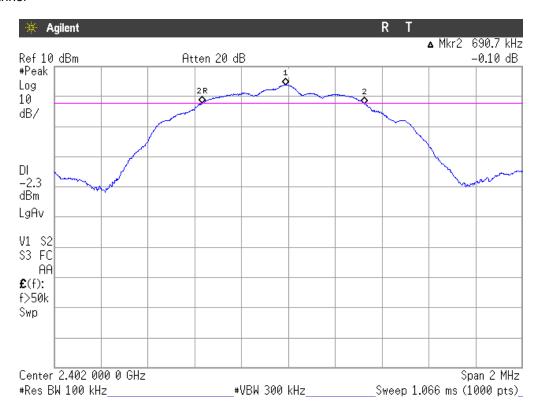
6 dB Bandwidth (see next plots).

	Lowest frequency 2402 MHz	Middle frequency 2440 MHz	Highest frequency 2480 MHz
6 dB Spectrum bandwidth (kHz)	690.7	698.7	688.7
Measurement uncertainty (kHz)	<±8		

Verdict: PASS

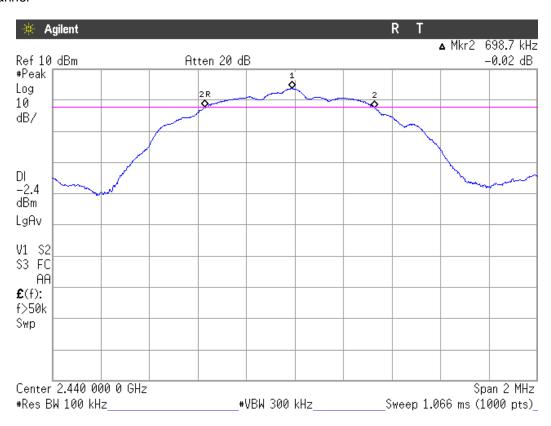
6 dB BANDWIDTH.

Lowest Channel

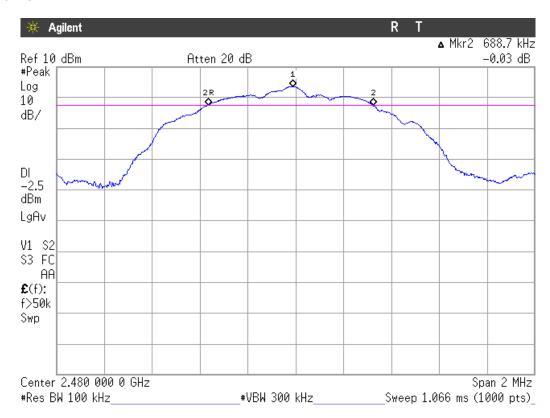


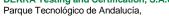


Middle Channel



Highest Channel







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

SPECIFICATION

For systems using digital modulation in the 2400-2483.5 MHz band: 1 watt (30 dBm).

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 04/05/2017.

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: -1 dBi.

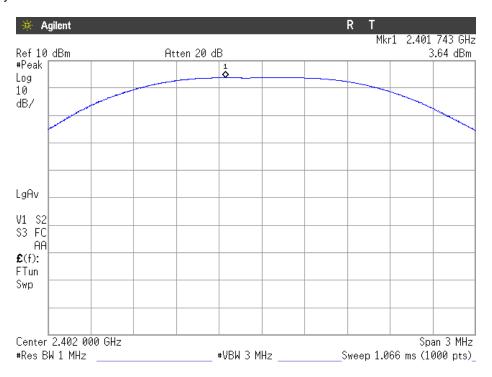
	Lowest frequency	Middle frequency	Highest frequency
	2402 MHz	2440 MHz	2480 MHz
Maximum conducted power (dBm)	3.64	3.56	3.45
Maximum EIRP power (dBm)	2.64	2.56	2.45
Measurement uncertainty (dB)	<±0.78		

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.

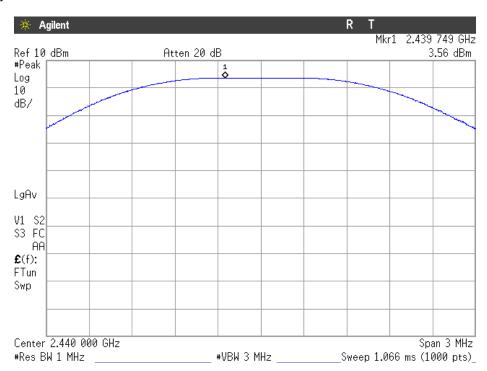


CONDUCTED PEAK POWER.

Lowest frequency



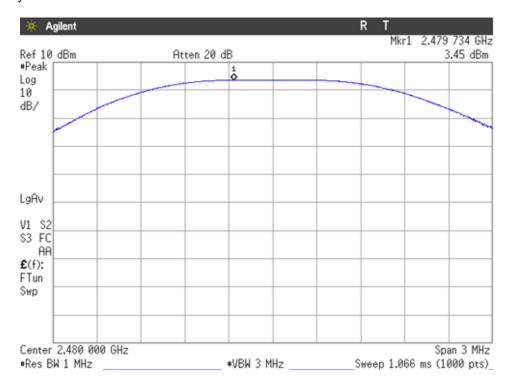
Middle frequency



Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456



Highest frequency



C.I.F. A29 507 456



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	Middle frequency	Highest frequency
	2402 MHz	2440 MHz	2480 MHz
Reference Level Measurement (dBm)	3.57	3.55	3.50
Measurement uncertainty (dB)	<±0.78		

Lowest frequency 2402 MHz:

Spurious frequency (MHz)	Emission Level (dBm)	Limit (dBm)
7206	-30.31	-16.43
Measurement uncertainty (dB)	<±0.78	

Middle frequency 2440 MHz:

Spurious frequency (MHz)	Emission Level (dBm)	Limit (dBm)
7322	-31.94	-16.45
Measurement uncertainty (dB)	<±0.78	

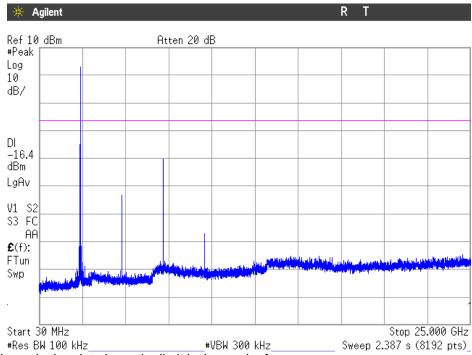
Highest frequency 2480 MHz:

Spurious frequency (MHz)	Emission Level (dBm)	Limit (dBm)
7441	-31.92	-16.50
Measurement uncertainty (dB)	<±0.78	

Measurement uncertainty (dB): < 0.78

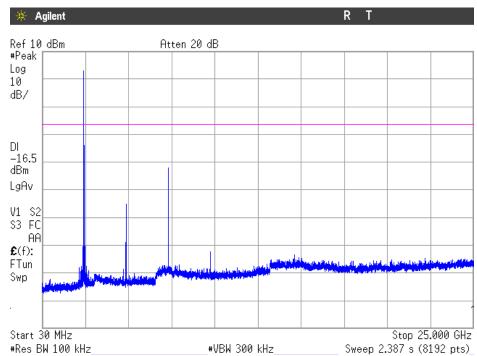


Lowest frequency



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

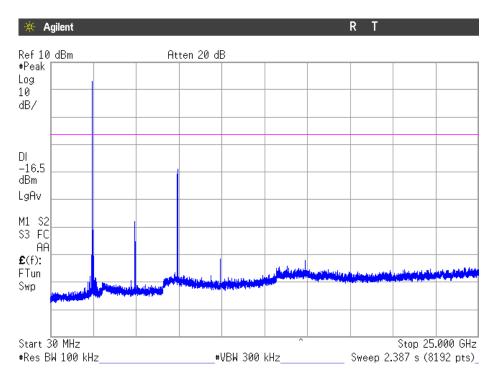
Middle frequency



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

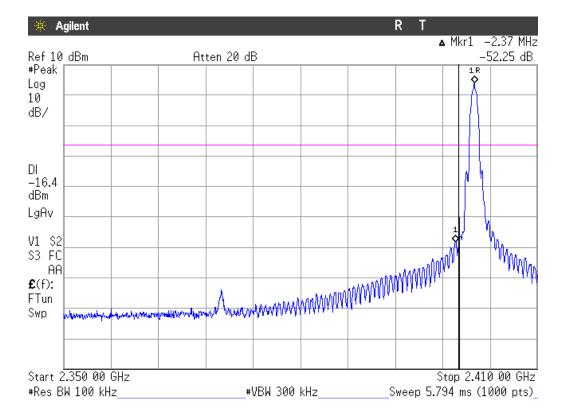
In any 100 kHz bandwidth outside the frequency band in which the digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of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

RESULTS:

Note: Radiated measurements were used to show compliance with the limits in the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

1. LOW FREQUENCY SECTION. CONDUCTED.

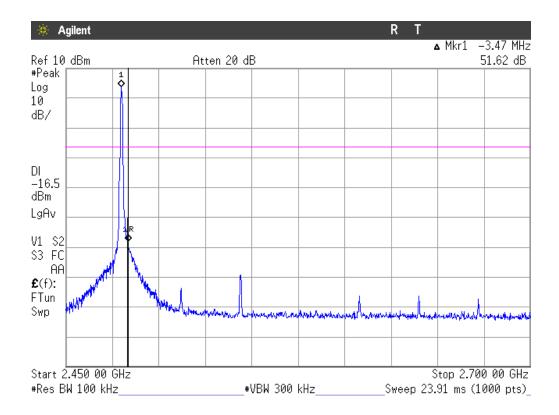
See next plot.





2. HIGH FREQUENCY SECTION. CONDUCTED.

See next plot.



Measurement uncertainty (dB)	< ±0.78
ividadarcinicht directainty (db)	< ±0.70

Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España

C.I.F. A29 507 456



Section 15.247 Subclause (e) / RSS-247 5.2. (b) 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 PKPSD (Peak PSD) according to point 10.2. of Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 558074 D01 DTS Meas Guidance v04 dated 04/05/2017.

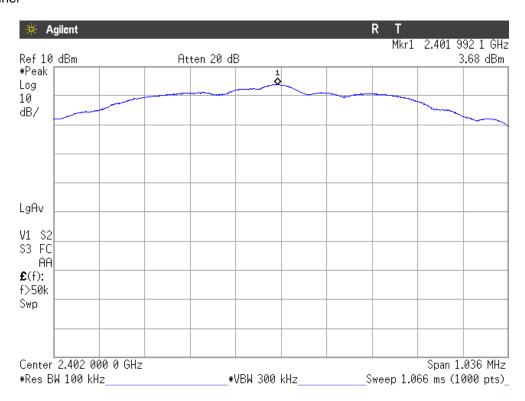
Power spectral density (see next plots).

	Lowest frequency	Middle frequency	Highest frequency
	2402 MHz	2440 MHz	2480 MHz
Power spectral density (dBm)	3.68	3.62	3.52
Measurement uncertainty (dB)	<±0.78		

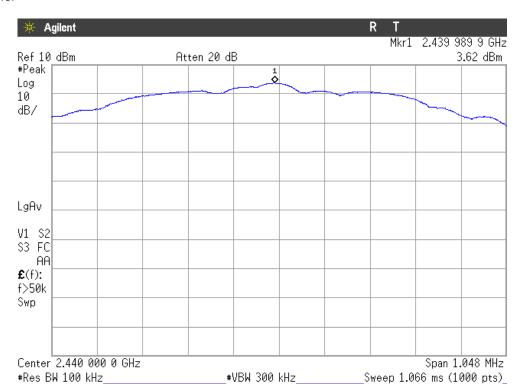
DEKRA

POWER SPECTRAL DENSITY

Lowest Channel



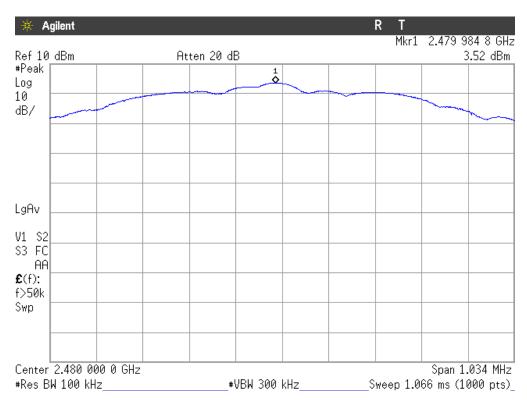
Middle Channel



Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456



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	0.009-0.490 2400/F(kHz)		300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	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 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-25 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.

C.I.F. A29 507 456



Frequency range 30 MHz-1000 MHz.

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

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
594.071	V	Quasi-Peak	28.90	± 3.88
742.611	V	Quasi-Peak	33.10	± 3.88

Frequency range 1 GHz-25 GHz

The results in the next tables show the maximum measured levels in the 1-25 GHz range including the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz (see next plots).

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

Lowest Channel

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
		Peak	54.11	± 4.70
7.205370	Н	Average	53.78	± 4.70

Middle Channel

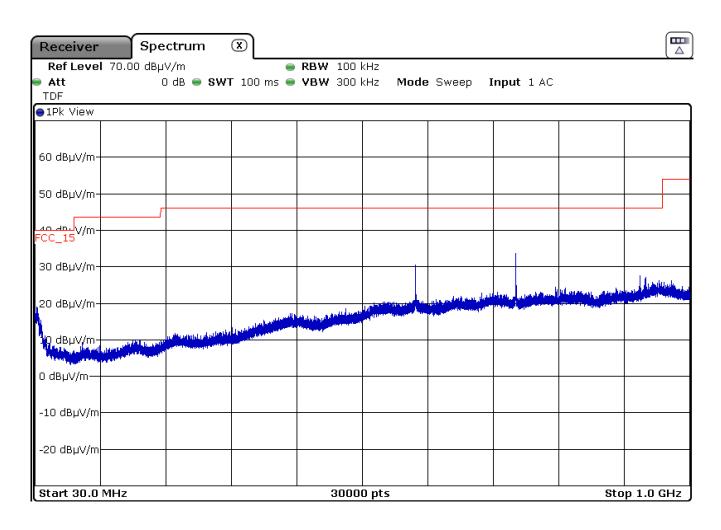
Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
7.320170	V	Peak	53.19	± 4.70

Highest Channel

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
0.400504		Peak	59.36	± 4.70
2.483521	Н	Average	41.05	± 4.70
7.439170	V	Peak	52.87	± 4.70



FREQUENCY RANGE 30 MHz-1000 MHz.

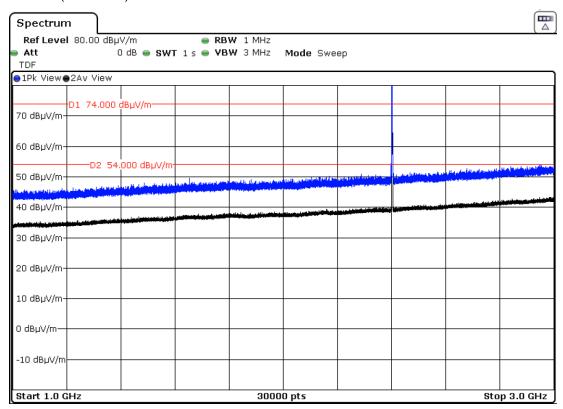


(This plot is valid for all three channels).



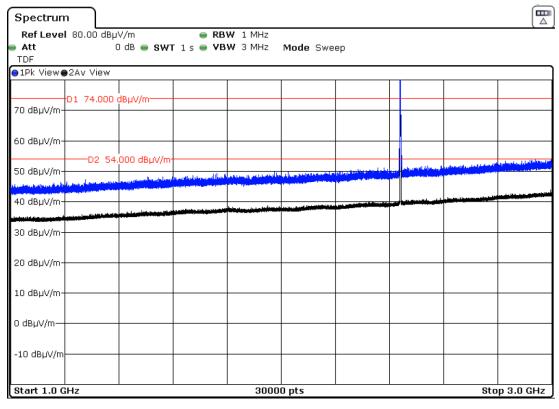
FREQUENCY RANGE 1 GHz to 3 GHz.

CHANNEL: Lowest (2402 MHz).



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

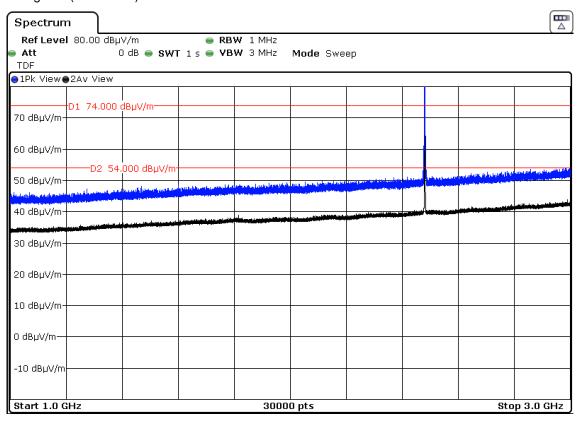
CHANNEL: Middle (2440 MHz).



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



CHANNEL: Highest (2480 MHz).



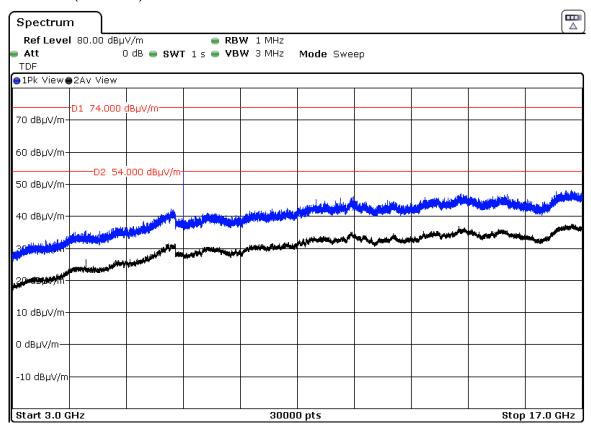
Note: The peak shown in the plot above the limit is the carrier frequency.

C.I.F. A29 507 456

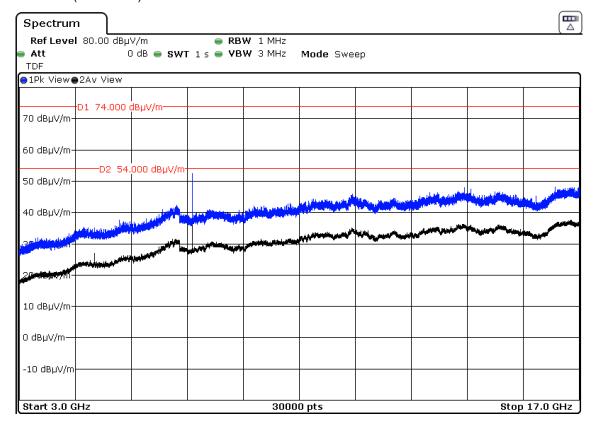


FREQUENCY RANGE 3 GHz to 17 GHz.

CHANNEL: Lowest (2402 MHz).



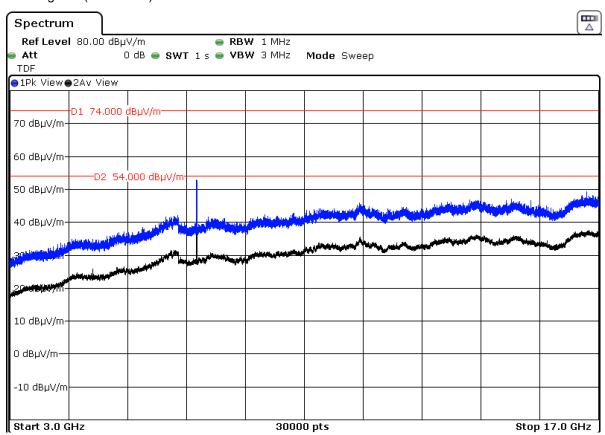
CHANNEL: Middle (2440 MHz).



Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456

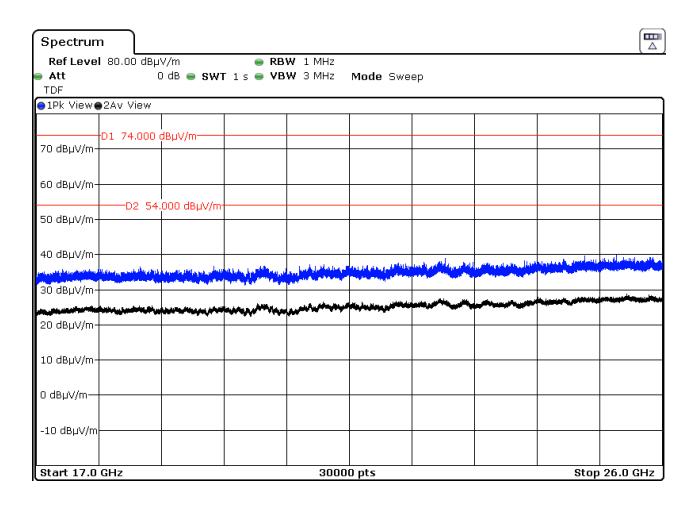


CHANNEL: Highest (2480 MHz).





FREQUENCY RANGE 17 GHz to 26 GHz.



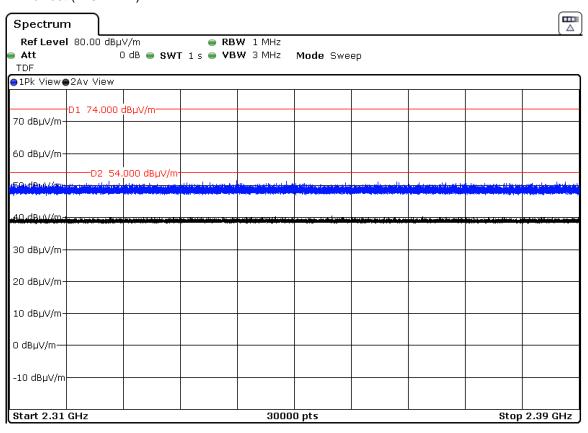
(This plot is valid for all three channels).

Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456

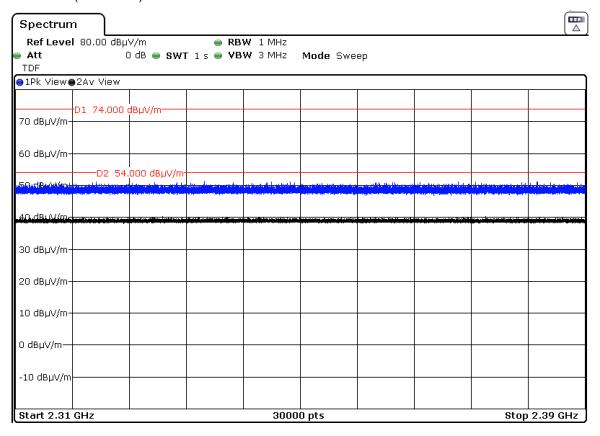


FREQUENCY RANGE 2.31 GHz to 2.39 GHz. (RESTRICTED BAND)

CHANNEL: Lowest (2402 MHz).



CHANNEL: Middle (2440 MHz).

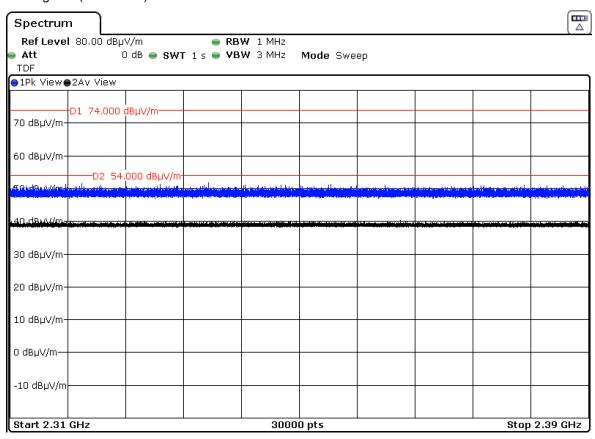


DEKRA Testing and Certification, S.A.U.

Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456



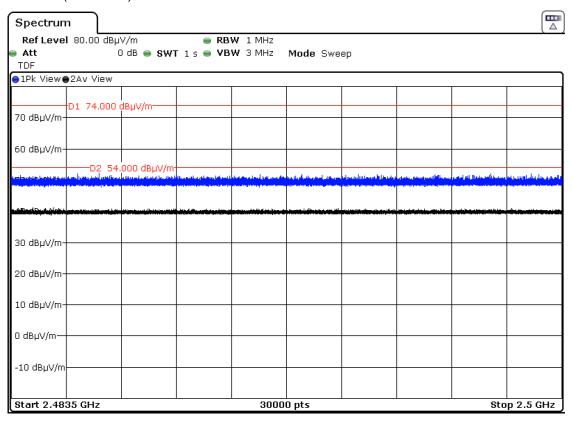
CHANNEL: Highest (2480 MHz).



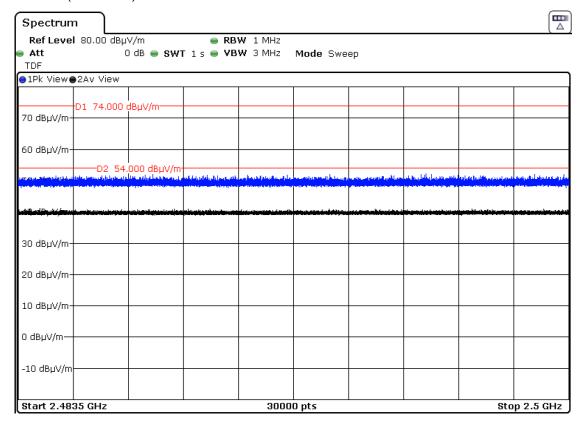


FREQUENCY RANGE 2.4835 GHz to 2.5 GHz. (RESTRICTED BAND).

CHANNEL: Lowest (2402 MHz).



CHANNEL: Middle (2440 MHz).



DEKRA Testing and Certification, S.A.U.

Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456



CHANNEL: Highest (2480 MHz).

