



Test report No:

NIE: 60889RRF.001

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 | New S7000 series Philips shavers with Bluetooth. Identification: all shaver types starting with S79xx are part of this range |
| (*) Trademark | Philips (or Philips Norelco in the US) |
| (*) Model and /or type reference tested | S7900 series |
| Other identification of the product | FCC ID: 2AICSS79 IC: 21912-S79 HW version: 1.0 SW version: 286 |
| (*) Features | Bluetooth 4.1. |
| Manufacturer | PHILIPS CONSUMER LIFESTYLE B.V. Tussendiepen 4, 9206 AD Drachten, The Netherlands |
| Test method requested, standard | USA FCC Part 15.247 (10-1-18 Edition): Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz. USA FCC Part 15.209 (10-1-18 Edition): Radiated emission limits; general requirements. CANADA RSS-247 Issue 2 (February 2017). CANADA RSS-Gen Issue 5 (April 2018). Guidance for Performing Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid Systems Devices Operating Under Section 15.247 of the FCC Rules. 558074 D01 Meas Guidance v05r02 dated April 2, 2019. ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices. |
| Summary | IN COMPLIANCE |

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| Approved by (name / position & signature) | José Carlos Luque RF Lab. Supervisor |
|---|--|
| Date of issue | 2019-11-04 |
| Report template No | FDT08_22 (*) "Data provided by the client" |

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Index

| Competences and guarantees | 4 |
|--|----|
| General conditions | 4 |
| Uncertainty | 4 |
| Data provided by the client | 4 |
| Usage of samples | 5 |
| Test sample description | 6 |
| Identification of the client | 7 |
| Testing period and place | 7 |
| Document history | 7 |
| Environmental conditions | 8 |
| Remarks and comments | 8 |
| Testing verdicts | 10 |
| Summary | 10 |
| Appendix A: Test results. Bluetooth Low Energy | 11 |

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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 FCC-recognized accredited testing laboratory with appropriate scope of accreditation that include testing performed in this test report.

DEKRA Testing and Certification is an ISED-recognized accredited testing laboratory with appropriate scope of accreditation that include testing performed in this test report.

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 S.A.U. and the Accreditation Bodies.

Uncertainty

Uncertainty (factor k=2) was calculated according to the DEKRA Testing and Certification S.A.U. internal document PODT000.

Data provided by the client

The following data has been provided by the client:

- 1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
- 2. The sample consists of a Bluetooth connected shaver.

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of results.



Usage of samples

Samples undergoing test have been selected by: The client.

- Sample S/01 is composed of the following elements:

| Control Nº | Description | Model | Serial Nº | Date of reception |
|------------|----------------------------|--------------|-----------|-------------------|
| 60899/004 | Bluetooth connected shaver | S7900 series | | 2019/07/24 |
| 60899/009 | USB dongle | | | 2019/07/24 |

Sample S/01 has undergone the following test(s): All CONDUCTED tests indicated in Appendix A.

- Sample S/02 is composed of the following elements:

| Control N⁰ | Description | Model | Serial Nº | Date of reception |
|------------|----------------------------|--------------|-----------|-------------------|
| 60899/013 | Bluetooth connected shaver | S7900 series | | 2019/09/10 |
| 60899/007 | AC/DC adapter | HQ8505 | | 2019/07/24 |

Sample S/02 has undergone the following test(s): All RADIATED tests indicated in Appendix A.



Test sample description

| Ports: | Port name and description | | Cable | | | | | | |
|--|-------------------------------------|---|--------------------------------|----------------------|--------|-----------|------|-----------------------------------|--------|
| | | | Specified max length [m] | Attached during test | | Shielded | | Coupled to patient ⁽³⁾ | |
| | | s via inlet port for ger or USB le) | | |] | | | | |
| Supplementary information to the ports: | - | | | | | | | | |
| Rated Power supply: | Volta | ge and Frequency | | | Re | ference p | oles | 3 | |
| | | g, | | L1 | L2 | L3 | N P | | PE |
| | | AC: 230 Vac / 3. | 6 Vdc | | | | | 7 | |
| | | DC: | | | | | | | |
| Rated Power: | 3.6 Volt | | | | | | | | |
| Clock frequencies: | - | | | | | | | | |
| Other parameters: | - | | | | | | | | |
| Software version: | 286 | | | | | | | | |
| Hardware version | 1.0 | | | | | | | | |
| Dimensions in cm (W x H x D): | 46,72 | 2 mm x 138,98 mm | x 53,33 mm | า | | | | | |
| Mounting position: | | Hand-held equip | ment | | | | | | |
| Modules/parts: | Module/parts of test item Type Manu | | | nufa | cturer | | | | |
| | - | | | | | | | | |
| Accessories (not part of the test item): | Desc | ription | | | Туре |) | Mai | nufac | cturer |
| · | - | | | | | | | | |
| Documents as provided by the applicant: | Desc | ription | | | File r | name | Issu | ue da | ite |
| -11 | - | | | | | | | | |

⁽³⁾ Only for Medical Equipment



Identification of the client

PHILIPS CONSUMER LIFESTYLE B.V.

Oliemolenstraat 5, 9203 ZN Drachten, the Netherlands

Testing period and place

| Test Location | DEKRA Testing and Certification S.A.U. |
|---------------|--|
| Date (start) | 2019-09-10 |
| Date (finish) | 2019-09-11 |

Document history

| Report number | Date | Description |
|---------------|------------|---------------|
| 60889RRF.001 | 2019-11-04 | 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 % |
| Air pressure | Min. = 860 mbar Max. = 1060 mbar |

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 |

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. = 75 % |
| Air pressure | Min. = 860 mbar Max. = 1060 mbar |



Remarks and comments

The tests have been performed by the technical personnel: José Gabriel Pendón, Miguel Ángel Torres, Cristina Calle.

Used instrumentation:

| (`onducted | Measurements: |
|------------|---------------------|
| COHUUCIEU | IVICASUI CITICITIS. |

| Conductor | a Measurements. | Last Calibration | Due Calibration |
|-----------|--|------------------|-----------------|
| 1. 2. | Shielded Room ETS LINDGREN S101 Spectrum Analyzer PSA 3Hz-26.5 GHz AGILENT TECHNOLOGIES E4440A | N.A. 2017/10 | N.A. 2019/10 |
| Radiated | Measurements: | Loot Calibration | Dua Calibration |
| | | Last Calibration | Due Calibration |
| 1. | Semianechoic Absorber Lined Chamber ETS LINDGREN FACT 3 200 STP | N.A. | N.A. |
| 2. | EMI Test Receiver 7 GHz ROHDE AND SCHWARZ ESR7 | 2018/10 | 2020/10 |
| 3. | RF Pre-amplifier 40 dB, 10 MHz - 6 GHz BONN ELEKTRONIK BLNA 0160-01N | 2019/02 | 2020/08 |
| 4. | Biconical/Log Antenna 30MHz - 6GHz ETS LINDGREN 3142E | 2017/09 | 2020/09 |
| 5. | Signal and Spectrum Analyzer ROHDE AND SCHWARZ FSV40 | 2018/02 | 2020/02 |
| 6. | RF Pre-amplifier G>30dB, 1-18GHz BONN ELEKTRONIK BLMA 0118-3A | 2019/04 | 2020/04 |
| 7. | Broadband Horn antenna 1-18 GHz SCHWARZBECK MESS-ELEKTRONIK BBHA 9120 D | 2018/01 | 2021/01 |
| 8. | RF pre-amplifier 18-40 GHz NARDA JS44- 18004000-33-8P | 2019/02 | 2020/02 |
| 9. | Broadband Horn antenna 18-40 GHz SCHWARZBECK BBHA 9170 | 2018/07 | 2021/07 |



Testing verdicts

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

Summary

1. Bluetooth Low Energy

| FCC PART 15.247 PARAGRAPH | | | | |
|---|--|---------|--------|--|
| Requirement – Test case | | 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: | | | | |
| None. | | | | |

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Appendix A: Test results. Bluetooth Low Energy

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INDEX

| TEST CONDITIONS | .13 |
|--|-----|
| Occupied Bandwidth | .15 |
| FCC Section 15.247 Subclause (a) (2) / RSS-247 Clause 5.2 (a) 6 dB Bandwidth | .17 |
| FCC Section 15.247 Subclause (b) / RSS-247 Clause 5.4 (d) Maximum output power and antenna gain | .19 |
| FCC Section 15.247 Subclause (d) / RSS-247 Clause 5.5. Emission limitations conducted (Transmitter) | .22 |
| $ \begin{tabular}{ll} FCC Section 15.247 Subclause (d) / RSS-247 Clause 5.5. Band-edge emissions compliance (Transmitter) . \end{tabular}$ | .25 |
| FCC Section 15.247 Subclause (e) / RSS-247 5.2. (b) Power spectral density | .27 |
| FCC Section 15 247 Subclause (d) / RSS-247 Clause 5.5. Emission limitations radiated (Transmitter) | 30 |



TEST CONDITIONS

POWER SUPPLY (V):

V nonimal: 3.6 Vdc
Type of Power Supply: Battery.
Type of Antenna: Internal.
Maximum Declared Antenna Gain: +2.5 dBi

TEST FREQUENCIES:

Low Channel: 2402 MHz
Middle Channel: 2440 MHz
High Channel: 2480 MHz

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 (Bilog antenna for the range between 30 MHz to 1000 MHz) is situated at a distance of 3 m and at a distance of 1m for the frequency range 1 GHz-26 GHz (1 GHz-18 GHz Double ridge horn antenna and 18 GHz-40 GHz horn antenna).

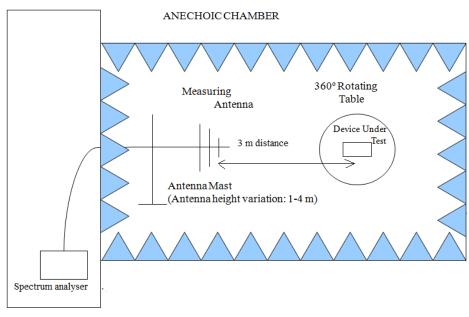
For radiated emissions in the range 1 GHz-26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

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 (Bilog antenna and Double ridge horn antenna) was varied from 1 to 4 meters to find the maximum radiated emission.

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

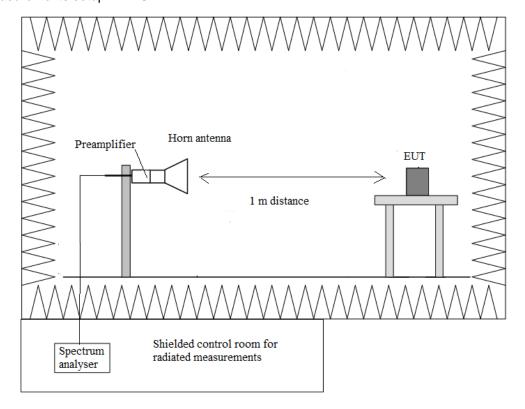


Radiated measurements setup from 30 MHz to 1 GHz:



Shielded Control Room For Radiated Measurements

Radiated measurements setup f > 1 GHz:



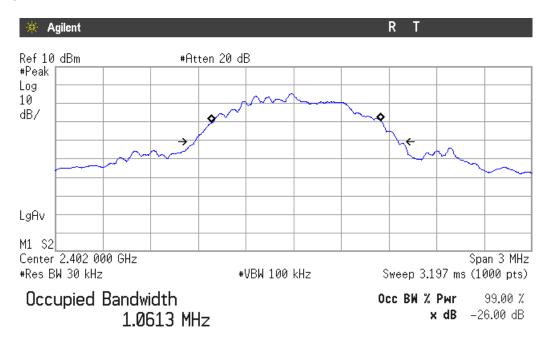


Occupied Bandwidth

RESULTS:

| | Low Channel 2402 MHz | Middle Channel 2440 MHz | High Channel 2480 MHz |
|-------------------------------|-------------------------|----------------------------|--------------------------|
| 99% bandwidth (MHz) | 1.0613 | 1.0619 | 1.062 |
| -26 dB bandwidth (MHz) | 1.279 | 1.279 | 1.279 |
| Measurement uncertainty (kHz) | | <± 1.80 | |

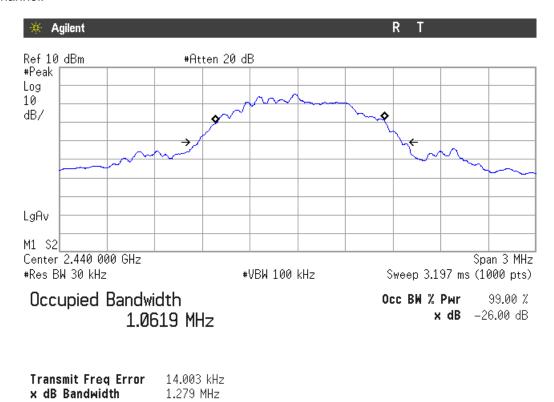
- Low Channel:

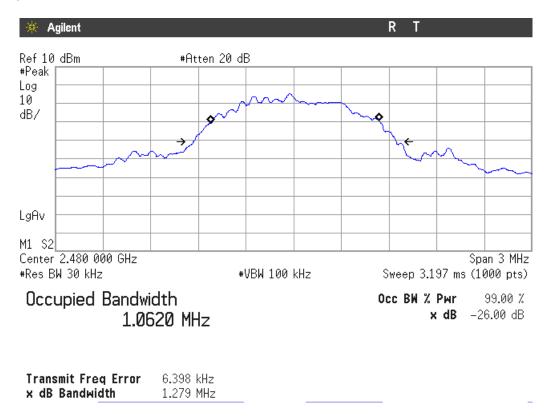


Transmit Freq Error 16.722 kHz x dB Bandwidth 1.279 MHz



- Middle Channel:







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

SPECIFICATION:

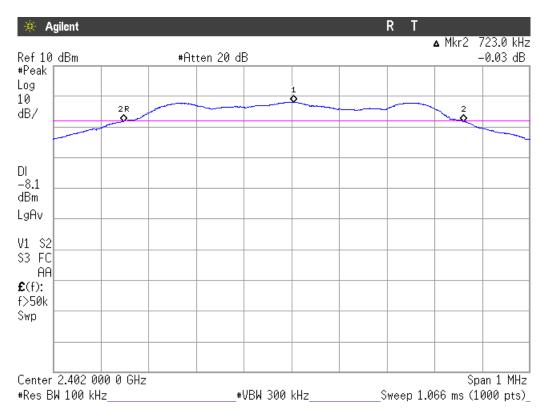
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS:

| | Low Channel 2402 MHz | Middle Channel 2440 MHz | High Channel 2480 MHz |
|-------------------------------|-------------------------|----------------------------|--------------------------|
| 6 dB Spectrum bandwidth (kHz) | 723.0 | 723.6 | 725.8 |
| Measurement uncertainty (kHz) | | <±2.50 | |

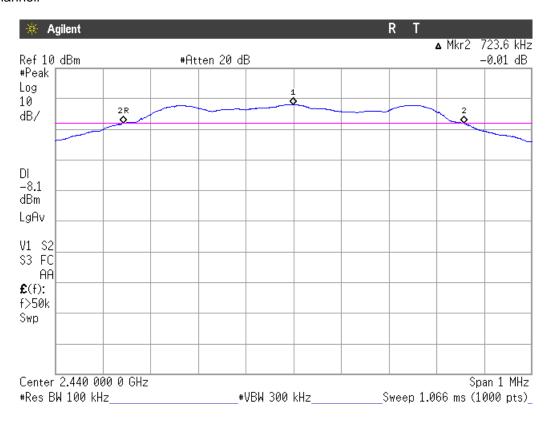
Verdict: PASS

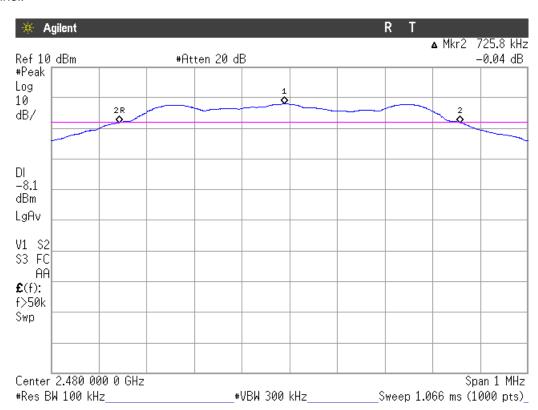
- Low Channel:





- Middle Channel:





C.I.F. A29 507 456



FCC Section 15.247 Subclause (b) / RSS-247 Clause 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 level in the fundamental emission was measured using the method according to point 11.9.1.1 "RBW ≥ DTS bandwidth" of ANSI C.63.10-2013.

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

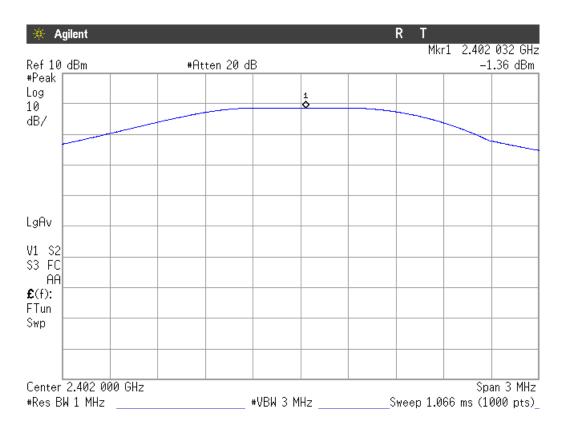
Maximum Declared Antenna Gain: +2.5 dBi

| | Low Channel 2402 MHz | Middle Channel 2440 MHz | High Channel 2480 MHz |
|-------------------------------|-------------------------|----------------------------|--------------------------|
| Maximum Conducted Power (dBm) | -1.36 | -1.35 | -1.44 |
| Maximum EIRP Power (dBm) | 1.14 | 1.15 | 1.06 |
| Measurement uncertainty (dB) | | <±1.20 | |

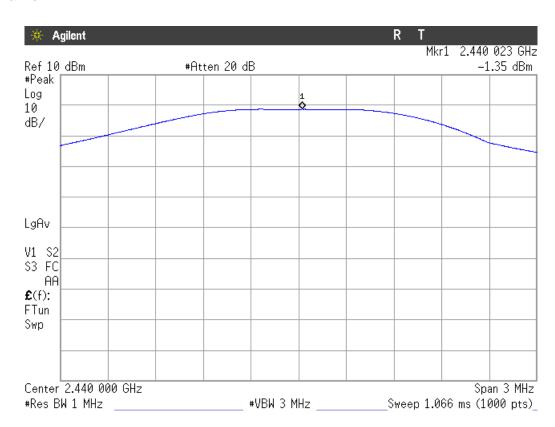
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.



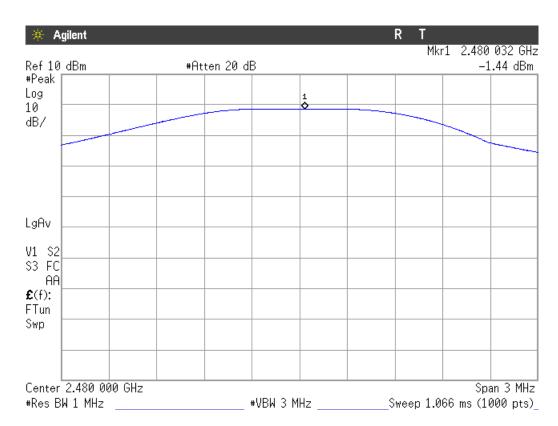
- Low Channel:



- Middle Channel:







C.I.F. A29 507 456



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

SPECIFICATION:

In any 100 kHz bandwidths outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

RESULTS:

| | Low Channel 2402 MHz | Middle Channel 2440 MHz | High Channel 2480 MHz |
|-----------------------------------|-------------------------|----------------------------|--------------------------|
| Reference Level Measurement (dBm) | -1.94 | -1.96 | -2.04 |
| Measurement uncertainty (dB) | <±1.20 | | |

Low Channel:

Spurious peaks detected at less than 20 dB below the limit:

| Frequency (MHz) | Emission Level (dBm) |
|------------------------------|----------------------|
| 4804 | -36.29 |
| Measurement uncertainty (dB) | <±2.03 |

Middle Channel:

Spurious peaks detected at less than 20 dB below the limit:

| Frequency (MHz) | Emission Level (dBm) |
|------------------------------|----------------------|
| 4879 | -36.68 |
| Measurement uncertainty (dB) | <±2.03 |

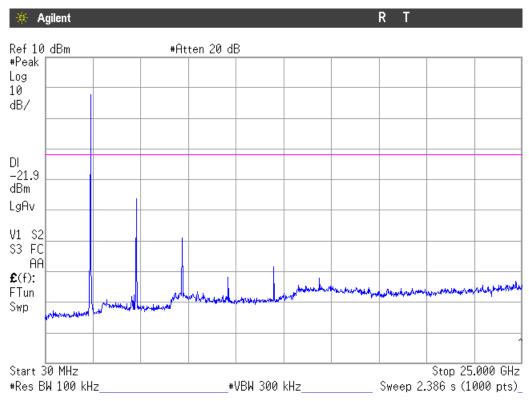
High Channel:

Spurious peaks detected at less than 20 dB below the limit:

| Frequency (MHz) | Emission Level (dBm) |
|------------------------------|----------------------|
| 4954 | -37.01 |
| Measurement uncertainty (dB) | <±2.03 |

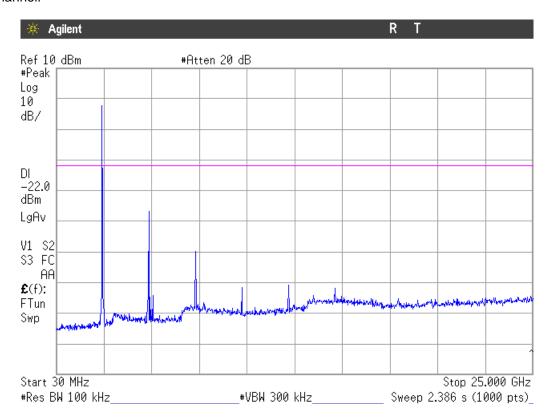


- Low Channel:



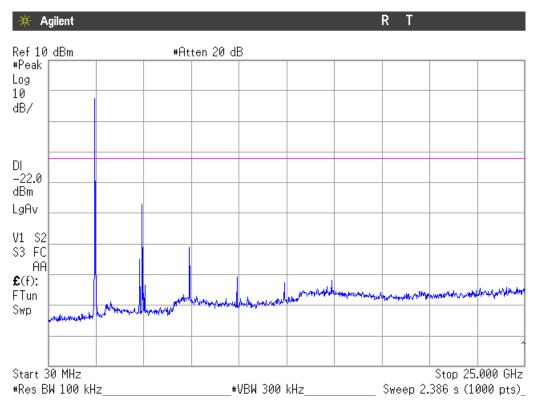
The peak shown in the plot above the limit is the carrier frequency.

- Middle Channel:

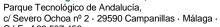


The peak shown in the plot above the limit is the carrier frequency.





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





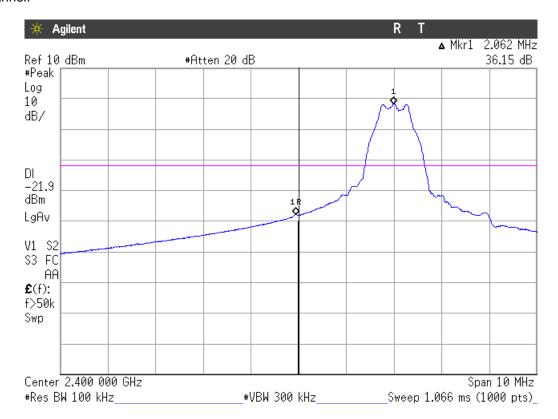
FCC Section 15.247 Subclause (d) / RSS-247 Clause 5.5. Band-edge emissions compliance (Transmitter)

SPECIFICATION:

In any 100 kHz bandwidths outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

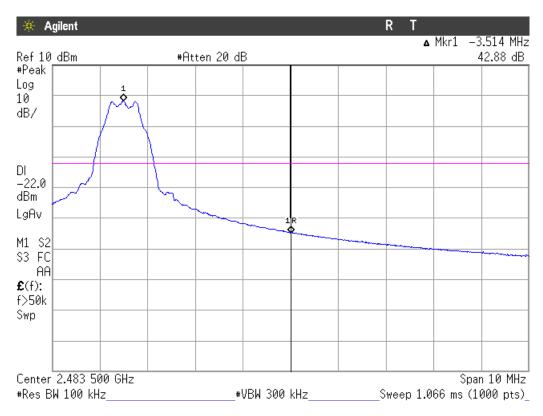
RESULTS:

- Low Channel:





- High Channel:



| Measurement uncertainty (dB) | <±2.03 |
|------------------------------|--------|
|------------------------------|--------|



FCC 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.

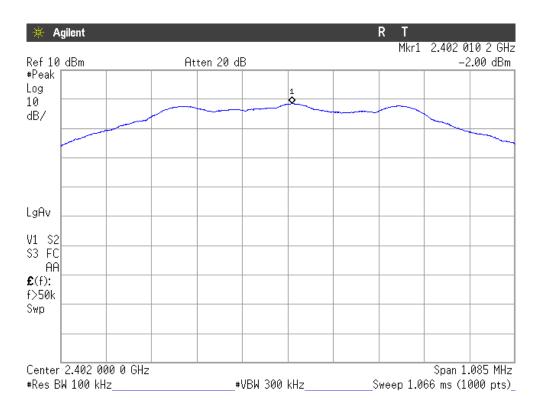
RESULTS:

The maximum power spectral density level in the fundamental emission was measured using the method according to point 11.10.2." Method PKPSD (peak PSD)" of ANSI C.63.10-2013.

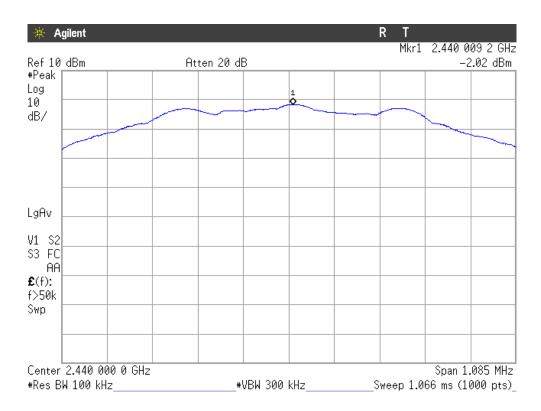
| | Low Channel 2402 MHz | Middle Channel 2440 MHz | High Channel 2480 MHz |
|------------------------------|-------------------------|----------------------------|--------------------------|
| Power Spectral Density (dBm) | -2.00 | -2.02 | -2.10 |
| Measurement uncertainty (dB) | <±1.20 | | |



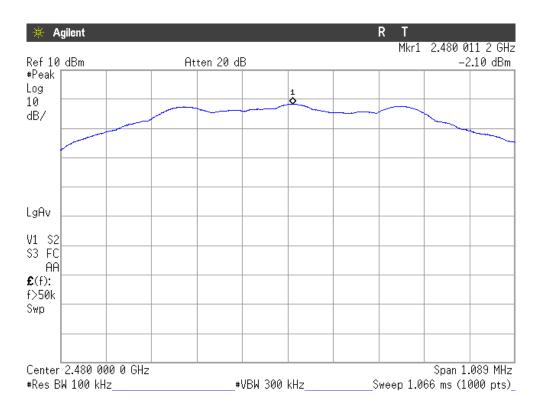
- Low Channel:



- Middle Channel:







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

SPECIFICATION:

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

| Frequency Range (MHz) | Field strength (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 - 10000 | 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-26 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 - 1 GHz:

The spurious frequencies do not depend on the operating channel.

Spurious frequencies detected at less than 20 dB below the limit:

| Spurious frequency (MHz) | Detector | Emission Level (dBµV/m) | Polarization | Measurement Uncertainty (dB) |
|-----------------------------|------------|-------------------------|--------------|---------------------------------|
| 52.52 | Quasi peak | 22.9 | V | <± 3.88 |
| 96.623 | Quasi peak | 26.2 | V | <± 3.88 |

C.I.F. A29 507 456



Frequency range 1 - 26 GHz:

The results in the next tables show the maximum measured levels in the 1-26 GHz range including the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

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.

- LOW CHANNEL. Spurious frequencies detected at less than 20 dB below the limit:

| Spurious frequency (GHz) | Detector | Emission Level (dBµV/m) | Polarization | Measurement Uncertainty (dB) |
|-----------------------------|----------|----------------------------|--------------|---------------------------------|
| 2.38995 | Peak | 56.95 | ш | <± 3.04 |
| | Average | 40.03 | П | <± 3.04 |
| 4.80343 | Peak | 44.42 | V | <± 4.88 |

- MIDDLE CHANNEL. Spurious frequencies detected at less than 20 dB below the limit:

| Spurious frequency (GHz) | Detector | Emission Level (dBµV/m) | Polarization | Measurement Uncertainty (dB) |
|-----------------------------|----------|----------------------------|--------------|---------------------------------|
| 4.8795 | Peak | 46.19 | Н | <± 4.88 |
| 5.1553 | Peak | 42.8 | V | <± 4.88 |

- HIGH CHANNEL. Spurious frequencies detected at less than 20 dB below the limit:

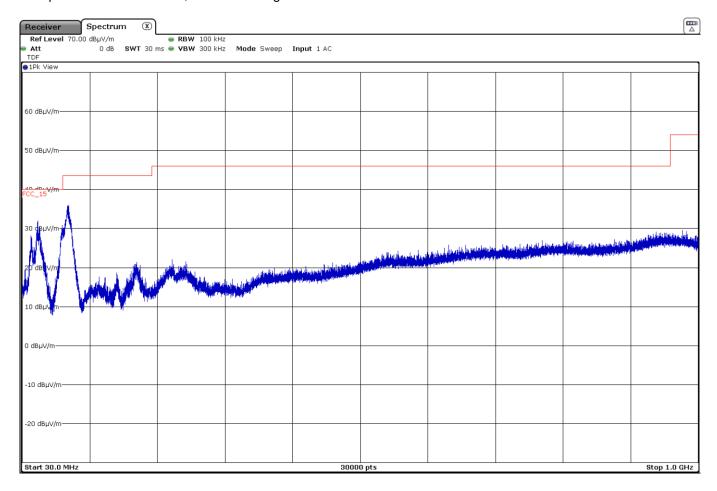
| Spurious frequency (GHz) | Detector | Emission Level (dBµV/m) | Polarization | Measurement Uncertainty (dB) |
|-----------------------------|----------|----------------------------|--------------|---------------------------------|
| 2.483545 | Peak | 69.92 | Ш | <± 3.04 |
| 2.403545 | Average | 43.61 | П | <± 3.04 |
| 4.95977 | Peak | 45.87 | Н | <± 4.88 |



FREQUENCY RANGE 30 MHz - 1 GHz:

The spurious frequencies do not depend on the operating channel.

This plot is valid for the Low, Middle and High Channels:

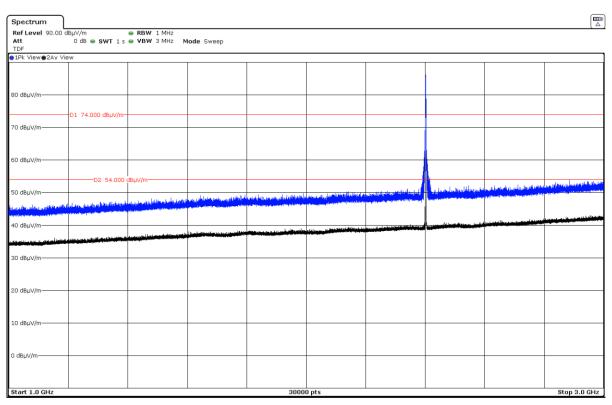


C.I.F. A29 507 456



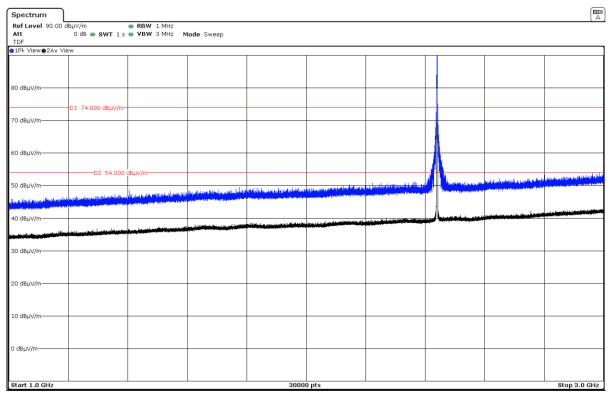
FREQUENCY RANGE 1 - 3 GHz:

- Low Channel:



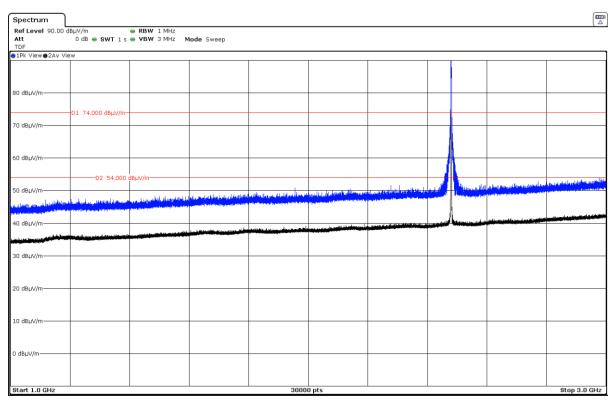
The peak above the limit is the carrier frequency.

- Middle Channel:



The peak above the limit is the carrier frequency.



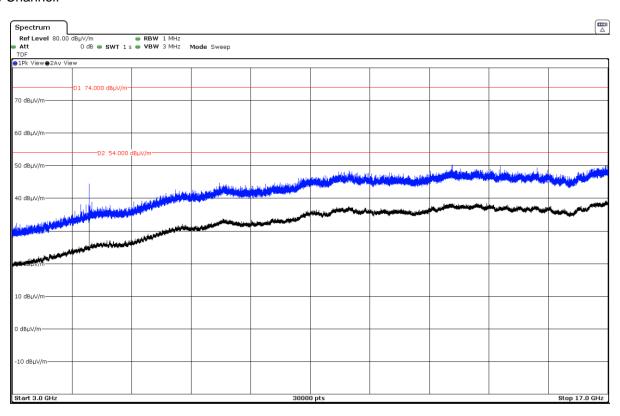


The peak above the limit is the carrier frequency.

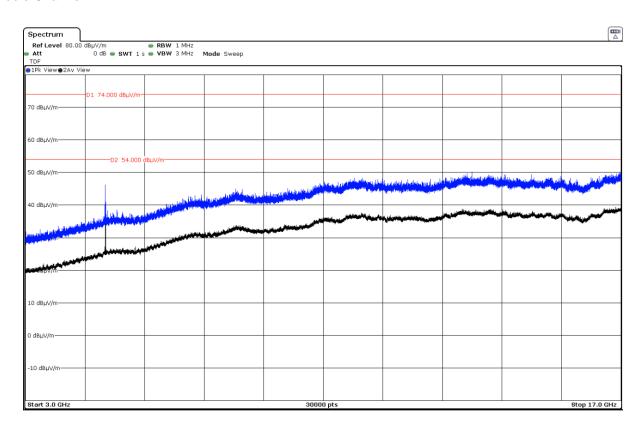


FREQUENCY RANGE 3 - 17 GHz:

- Low Channel:



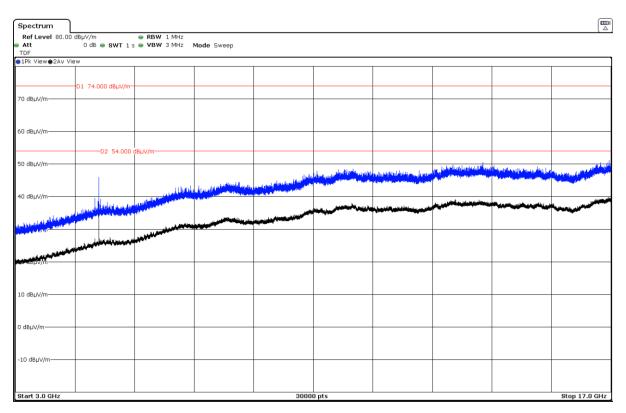
- Middle Channel:



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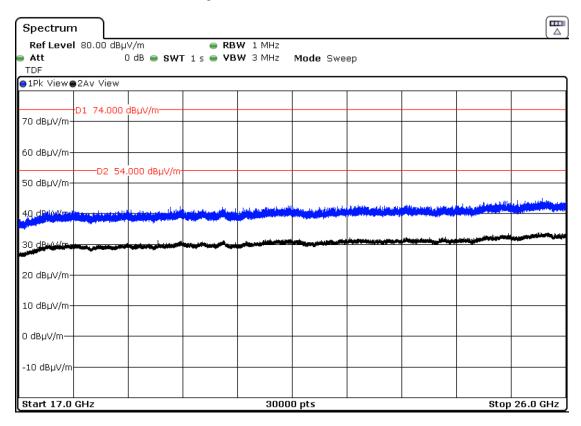






FREQUENCY RANGE 17 - 26 GHz:

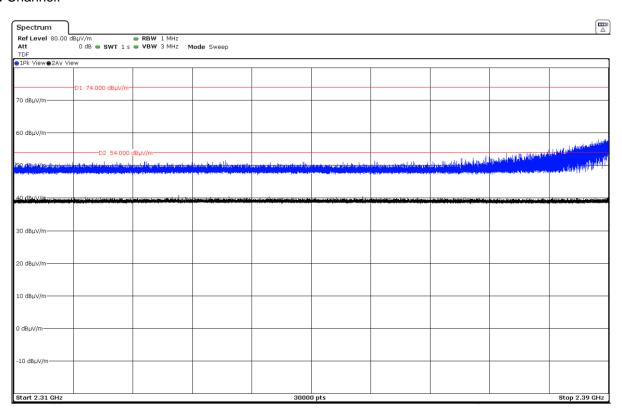
This plot is valid for the Low, Middle and High Channels:



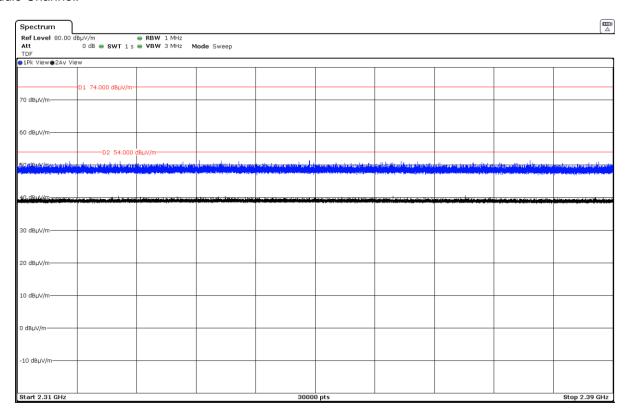


FREQUENCY RANGE 2.31-2.39 GHz (Restricted Band):

- Low Channel:



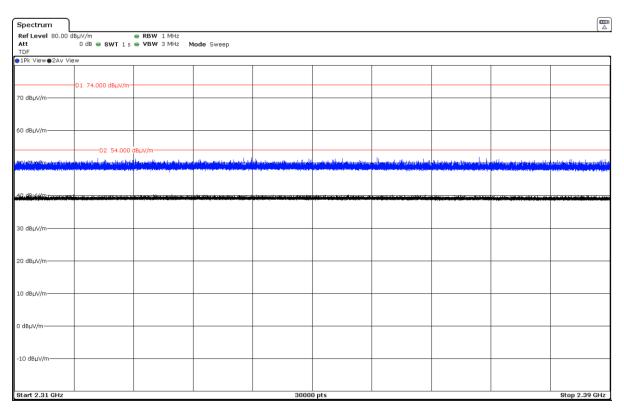
- Middle Channel:



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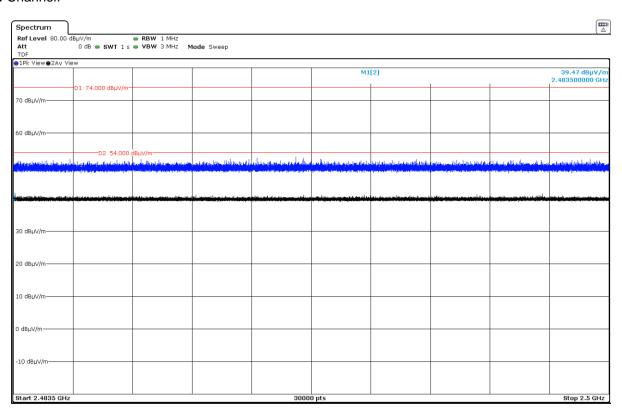




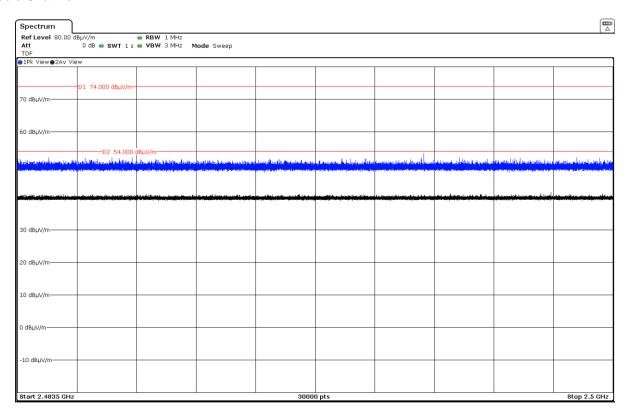


FREQUENCY RANGE 2.4835-2.5 GHz (Restricted Band):

- Low Channel:



- Middle Channel:



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