



FCC LISTED, REGISTRATION
NUMBER: 2764.01

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NUMBER: 23595-1

Test report No:
2840ERM.007

Partial Test report

**USA FCC Part 15.247, 15.209, 15.207
CANADA RSS-247, RSS-Gen**

**Radio Frequency Devices. Operation within the bands 902 - 928 MHz,
2400 -2483.5 MHz, and 5725 - 5850 MHz.**

**Digital Transmission Systems (DTSS), Frequency Hopping Systems
(FHSs) and License-Exempt Local Area Network (LE-LAN) Devices.**

Identification of item tested	Dual band WiFi and BLE 5 radio module
Trademark	Telit
Model and /or type reference	WE866C6-P
Other identification of the product	-
Features	BT BR/EDR/LE 5.0 + Wifi a/b/g/n/ac (wave 1=> Max BW= 80 MHz)
Manufacturer	TELIT COMMUNICATIONS S.P.A. Viale Stazione di Prosecco 5/B, 34010 Sgonico, Trieste (Italy)
Test method requested, standard	USA FCC Part 15.247, 10-1-19 Edition: Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz. USA FCC Part 15.209, 10-1-19 Edition: Radiated emission limits; general requirements CANADA RSS-247 Issue 2 (February 2017). CANADA RSS-Gen Issue 5 (April 2018). 558074 D01 15.247 Meas Guidance v05r02. Guidance for Compliance Measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under section §15.247 of the FCC Rules ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager
Date of issue	07-13-2020
Report template No	FDT08_21

Index

Competences and guarantees3

General conditions3

Uncertainty3

Data provided by the client4

Usage of samples4

Test sample description5

Identification of the client6

Testing period and place6

Document history6

Environmental conditions.....7

Remarks and comments.....7

Testing verdicts8

Summary.....8

List of equipment used during the test9

Appendix A: Test results (Bluetooth Low Energy).....10

Appendix B: Test results (WIFI 2.4GHz)17

Competences and guarantees

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

DEKRA Certification Inc. is a testing laboratory competent to carry out the tests described in this report.

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

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

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

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

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General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA Certification Inc.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Certification Inc. and the Accreditation Bodies.

Uncertainty

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

Frequency (MHz)	U(k=2)	Units
30-180	3.82	dB
180-1000	2.61	dB
1000-18000	2.92	dB
18000-40000	2.15	dB

Data provided by the client

Companion module, supporting Wi-Fi 802.11 a/b/g/n/ac (wave 1) and BT (BR/EDR/LE(5.0)). Single RF antenna port for both technologies Wifi and BT. SDIO and HCI I/F, respectively for Wi-Fi and BT control. Module is controlled via a host Telit module, LE920A4 or LE910C1.

DEKRA 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 N°	Description	Model	Serial N°	Date of reception
2840/01	Telit module WE866C6-P in Cradle	LE910C4- AP	IMEI:357575100004589	04/27/2020

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

All conducted tests indicated in appendix A & B.

Sample S/02 is composed of the following elements:

Control N°	Description	Model	Serial N°	Date of reception
2840/02	Telit module WE866C6-P in Cradle	LE910C4-AP	IMEI:357575100005412	04/27/2020

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

All radiated tests indicated in appendix B.

Sample S/01 & S/02 is composed of the following accessories:

Control N°	Description	Model	Serial N°	Date of reception
2840/08	power cable	---	---	04/27/2020
2840/11	USB Cable	---	---	04/27/2020
2840/05	WLAN Antenna	ATEL-ANTENNAS T-AT9552	---	04/27/2020

Test sample description

Ports..... :	Port name and description		Cable				
			Specified length [m]	Attached during test	Shielded		
	WI-FI/BT RF Port		0.1	☒	☐		
				☐	☐		
			☐	☐			
			☐	☐			
Supplementary information to the ports..... :	Not provided						
Rated power supply..... :	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	☐	AC:	☐	☐	☐	☐	☐
	☐	AC:	☐	☐	☐	☐	☐
	☐	DC					
	☒	DC: 3.8V (Internal DCDC converter supplying the WE866C3-P module with regulated voltage = 3.3 V)					
Rated Power	18 dBm max						
Clock frequencies	48 MHz						
Other parameters	Not provided						
Software version.....	25.20.308						
Hardware version	1.0 / CS2049b-a						
Dimensions in cm (L x W x D)....	15x13mm						
Mounting position	☐	Table top equipment					
	☒	Wall/Ceiling mounted equipment					
	☐	Floor standing equipment					
	☐	Hand-held equipment					
	☐	Other:					
Modules/parts..... :	Module/parts of test item		Type		Manufacturer		
Accessories (not part of the test item)	Description		Type		Manufacturer		

Documents as provided by the applicant	Description	File name	Issue date

Copy of marking plate:



Identification of the client

TELIT COMMUNICATIONS S.P.A.

Viale Stazione di Prosecco 5/B, 34010 Sgonico, Trieste (Italy)

Testing period and place

Test Location	DEKRA Certification Inc.
Date (start)	07-06-2020
Date (finish)	07-10-2020

Document history

Report number	Date	Description
2840ERM.007	07-13-2020	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. = 30 % 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. = 30 % 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. = 30 % Max. = 60 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Remarks and comments

The tests have been performed by the technical personnel: Divya Adusumilli, Lakshmi Gollamudi, Bhagyashree Chaudhary, Koji Nishimoto and Lourdes Maria Valverde.

Testing verdicts

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

Summary

FCC PART 15 PARAGRAPH / RSS-247 (Bluetooth Low Energy)					
Section	15.247 Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
-	§ 2.1049	RSS-Gen 6.7	99% Occupied Bandwidth	N/M	Refer 1
-	§ 15.247 (a) (2)	RSS-247 5.2. (a)	6dB Emission Bandwidth	N/M	Refer 1
A.1	§ 15.247 (b) (3)	RSS-247 5.4. (d)	Maximum peak conducted output power and antenna gain	P	N/A
-	§ 15.247 (d)	RSS-247 5.5.	Band-edge emissions compliance (Transmitter)	N/M	Refer 1
-	§ 15.247 (e)	RSS-247 5.2. (b)	Power spectral density	N/M	Refer 1
-	§15.207 (a)	RSS Gen 8.8	Conducted Emission Limits	N/M	Refer 1
-	§ 15.247 (d)	RSS-Gen 8.9 & 8.10.	Emission limitations radiated (Transmitter)	N/M	Refer 1
<u>Supplementary information and remarks:</u> 1. Customer not requested.					

FCC PART 15 PARAGRAPH (WIFI 2.4GHz)					
Section	15.247 Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
-	§ 2.1049 & §15.247 (a) (2)	RSS-247 5.2 (a)	99% Occupied Bandwidth & 6dB Bandwidth	N/M	Refer 1
B.1	§ 15.247 (b)	RSS-247 5.4 (d)	Maximum Output Power and antenna gain	P	N/A
-	§ 15.247 (d)	RSS-247 5.5	Band-edge conducted emissions compliance (Transmitter)	N/M	Refer 1
-	§ 15.247 (e)	RSS-247 5.2 (b)	Power Spectral Density	N/M	Refer 1
-	§15.247(d)	RSS-247 5.5	Emission limitations Conducted (Transmitter)	N/M	Refer 1
B.2	§15.247 (d)	RSS-247 5.5	Emission limitations Radiated (Transmitter)	P	N/A
<u>Supplementary information and remarks:</u> 1. Customer not requested.					

List of equipment used during the test

Conducted Measurements

Test system Rohde & Schwarz TS 8997:

CONTROL NUMBER	DESCRIPTION	MANUFACTURER	MODEL	LAST CALIBRATION	NEXT CALIBRATION
1039	FSV40 Signal analyzer 40 GHz	Rohde & Schwarz	FSV40	2018/10	2020/10
1309	Switch unit	Rohde & Schwarz	OSP120 / OSP-B157	2020/03	2022/03
1009	RF generator	ROHDE & SCHWARZ	SMB100A	2019/08	2021/08
1042	RF Vector Signal generator	Rohde & Schwarz	SMBV100A	2020/03	2022/03

Radiated Measurements

CONTROL NUMBER	DESCRIPTION	MANUFACTURER	MODEL	LAST CALIBRATION	NEXT CALIBRATION
1179	Semi anechoic Absorber Lined Chamber	Frankonia	SAC 3 plus "L"	N/A	N/A
1064	Biconical Log antenna	ETS LINDGREN	3142E	2018/01	2021/01
1058	Double-ridge Waveguide Horn antenna 1-18 GHz	ETS LINDGREN	3115	2020/05	2023/05
1056	Double-ridge Waveguide Horn antenna	ETS LINDGREN	3116C	2020/01	2023/01
1014	Spectrum analyzer	Rohde & Schwarz	FSV40	2019/04	2021/04
1012	EMI TEST RECEIVER	Rohde & Schwarz	ESR 26	2019/12	2021/12
0981	RF pre-amplifier 1-18 GHz	Bonn Elektronik	BLMA 0118-2A	2018/10	2021/10

Appendix A: Test results (Bluetooth Low Energy)

Appendix A Content

PRODUCT INFORMATION.....12

DESCRIPTION OF TEST CONDITIONS.....13

TEST A.1: MAXIMUM PEAK CONDUCTED OUTPUT POWER AND ANTENNA GAIN14

PRODUCT INFORMATION

The following information is provided by the client

Information	Description
Modulation	Other than FHSS
Adaptive	Adaptive Equipment which can operate in Non-Adaptive mode
Operation mode	
- Operating Frequency Range	2402 – 2480 MHz
- Nominal Channel Bandwidth	1 MHz
- RF Output Power	9 dBm
Extreme operating conditions	
- Temperature range	-40 °C to +85 °C
Antenna type	Dedicated Antenna
Antenna gain	+ 2.5 dBi
Nominal Voltage	
- Supply Voltage	3.8 Vdc
- Type of power source	DC voltage
Equipment type	Bluetooth Low Energy
Geo-location capability	No

DESCRIPTION OF TEST CONDITIONS

TEST CONDITIONS	DESCRIPTION
TC#01	<u>Power supply (V):</u> $V_{\text{nominal}} = 3.8 \text{ Vdc}$ <u>Test Frequencies for Conducted/ Radiated tests:</u> Lowest channel: 2402 MHz Middle channel: 2440 MHz Highest channel: 2480 MHz

TEST A.1: MAXIMUM PEAK CONDUCTED OUTPUT POWER AND ANTENNA GAIN

LIMITS:	Product standard:	Part 15 Subpart C §15.247 and RSS-247
	Test standard:	Part 15 Subpart C §15.247(b)(3) and RSS-247 5.4(d)

LIMITS

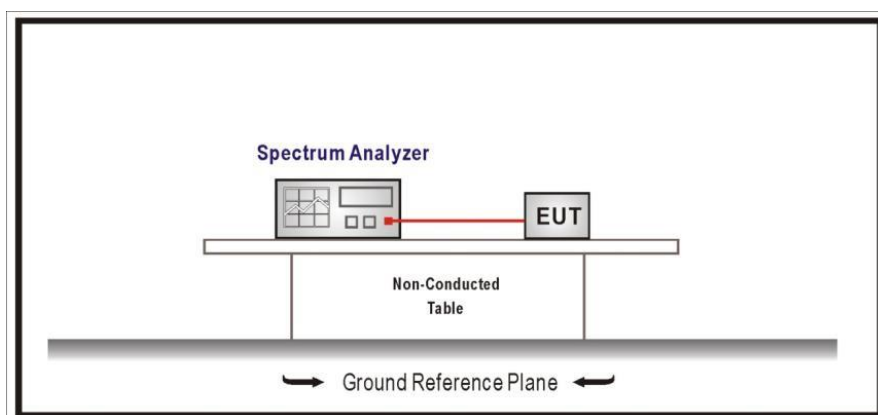
§15.247(b)(3) and RSS-247 5.4(d): For systems using digital modulation in the 2400-2483.5 MHz band: 1 watt (30 dBm).

RSS-247 5.4(d): The e.i.r.p. shall not exceed 4 W (36 dBm)

TEST SETUP

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

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



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01
TEST RESULTS:	PASS

	Lowest frequency 2402 MHz	Middle frequency 2440 MHz	Highest frequency 2480 MHz
Maximum conducted power (dBm)	-4.2	-3.2	-4.3
Maximum EIRP power (dBm)	-1.7	-0.7	-1.8
Measurement uncertainty (dB)	<±0.78		

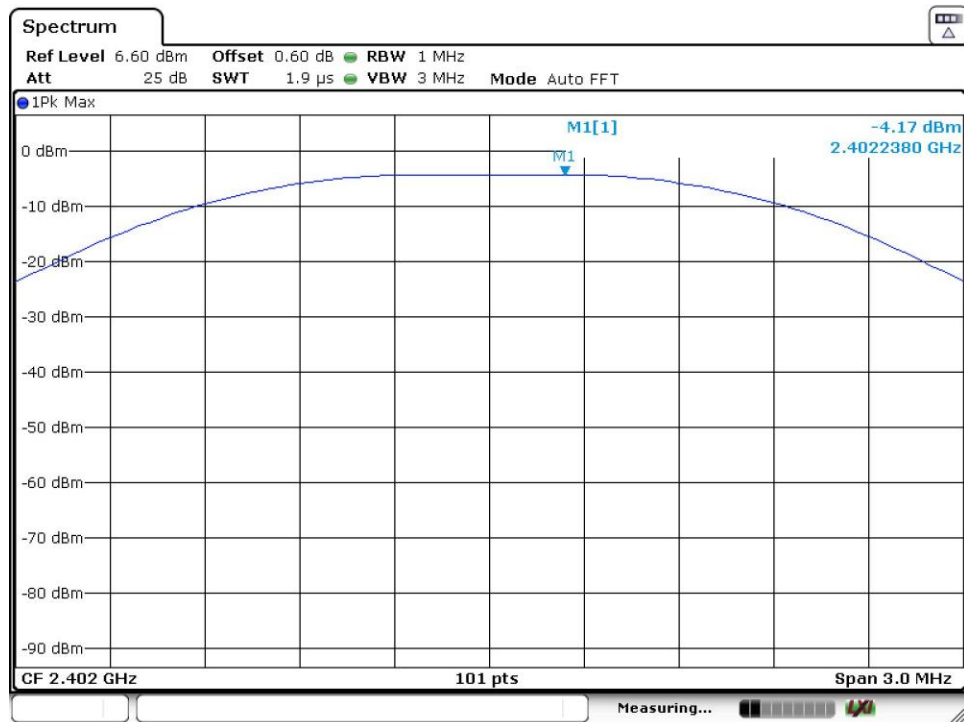
Maximum declared antenna gain: + 2.5 dBi

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.

TEST RESULTS (Cont.):

CONDUCTED PEAK POWER

Lowest Channel

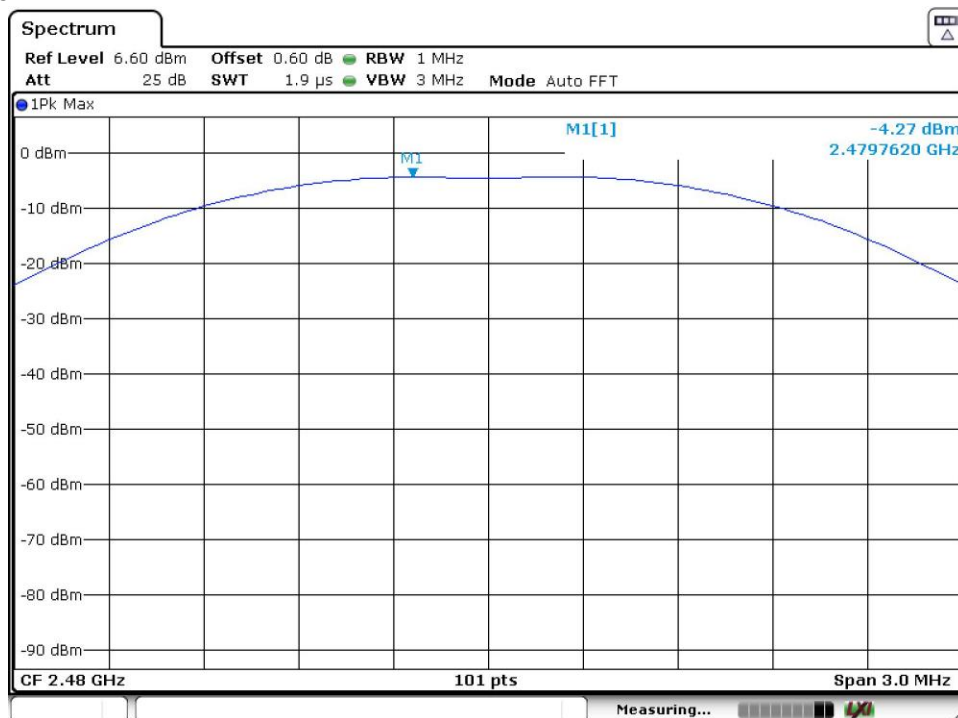


Middle Channel



TEST RESULTS (Cont.):

Highest Channel



Appendix B: Test results (WIFI 2.4GHz)

Appendix B Content

PRODUCT INFORMATION19

DESCRIPTION OF TEST CONDITIONS20

TEST B.1: MAXIMUM CONDUCTED OUTPUT POWER AND ANTENNA GAIN21

TEST B.2: EMISSION LIMITATIONS RADIATED (TRANSMITTER).....30

PRODUCT INFORMATION

The following information is provided by the supplier, in accordance with clause 5.4.1:

Information	Description
Modulation	DSSS/OFDM
Maximum RF Output Power	18 dBm
Operation mode	Equipment with only one antenna
- Operating Frequency Range	2412 – 2462 MHz
- Nominal Channel Bandwidth	20 / 40 MHz
Extreme operating conditions	
- Temperature range	-40 °C to +85 °C
Antenna type	Dedicated Antenna
Antenna gain	+2.5 dBi
Nominal Voltage	
- Supply Voltage	3.8 Vdc
- Type of power source	DC voltage
Equipment type	WIFI 2.4GHz b/g/n20/n40
Geo-location capability	No

DESCRIPTION OF TEST CONDITIONS

During transmitter test the EUT was being controlled by the SW tool to operate in a continuous transmit mode on the test channel as required and in each of the different modulation modes.

TEST CONDITIONS	DESCRIPTION
TC#01 ⁽¹⁾ (b mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 3.8 \text{ Vdc}$ <u>Channel Bandwidth:</u> 20 MHz <u>Test Frequencies for Conducted/Radiated tests:</u> Lowest channel: 2412 MHz Middle channel: 2437 MHz Highest channel: 2462 MHz
TC#02 ⁽¹⁾ (g mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 3.8 \text{ Vdc}$ <u>Channel Bandwidth:</u> 20 MHz <u>Test Frequencies for Conducted/Radiated tests:</u> Lowest channel: 2412 MHz Middle channel: 2437 MHz Highest channel: 2462 MHz
TC#03 ⁽¹⁾ (n mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 3.8 \text{ Vdc}$ <u>Channel Bandwidth:</u> 20 MHz <u>Test Frequencies for Conducted:</u> Lowest channel: 2412 MHz Middle channel: 2437 MHz Highest channel: 2462 MHz
TC#04 ⁽¹⁾ (n mode)	<u>Power supply (V):</u> $V_{\text{nominal}} = 3.8 \text{ Vdc}$ <u>Channel Bandwidth:</u> 40 MHz <u>Test Frequencies for Conducted:</u> Lowest channel: 2422 MHz Middle channel: 2437 MHz Highest channel: 2452 MHz

Note (1): For spurious emissions for OFDM modes 802.11b, 802.11g and 802.11n a preliminary scan was performed to determine the worst case. The following tables and plots show the results for the worst case in DSSS modulation (802.11b) and OFDM modulation (802.11g).

The data rates of 1Mb/s for 802.11b, 6Mb/s for 802.11g, MCS0 for 802.11n20/n40 were selected based on preliminary testing that identified those rates corresponding to the worst cases.

TEST B.1: MAXIMUM CONDUCTED OUTPUT POWER AND ANTENNA GAIN

LIMITS:	Product standard:	Part 15 Subpart C §15.247 and RSS-247
	Test standard:	Part 15 Subpart C §15.247(b) and RSS-247 5.4(d)

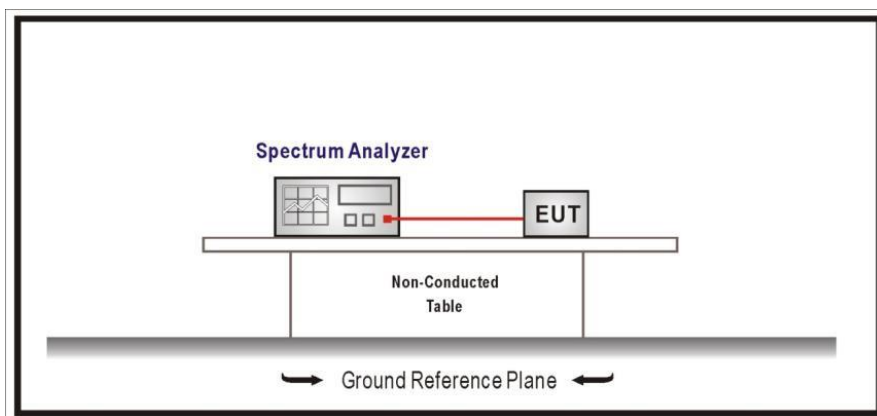
LIMITS

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 (RSS-247).

TEST SETUP

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



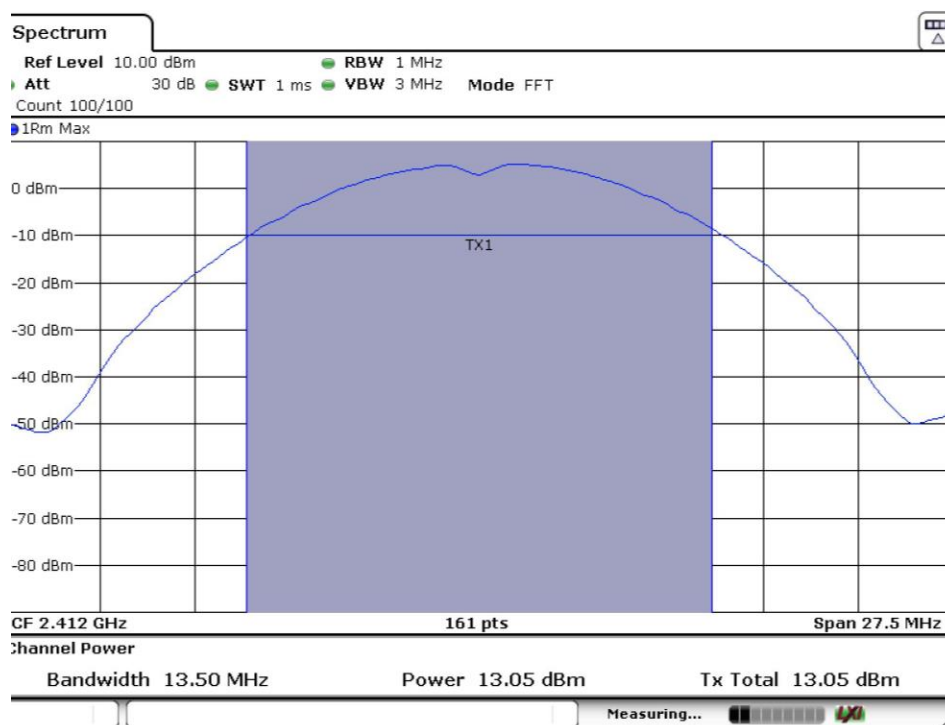
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (b mode)
TEST RESULTS:	PASS

Maximum declared antenna gain: + 2.5 dBi

	Lowest frequency	Middle frequency	Highest frequency
	2412 MHz	2437 MHz	2462 MHz
Maximum conducted power (dBm)	13.05	14.04	12.88
Maximum EIRP power (dBm)	15.55	16.54	15.38
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.

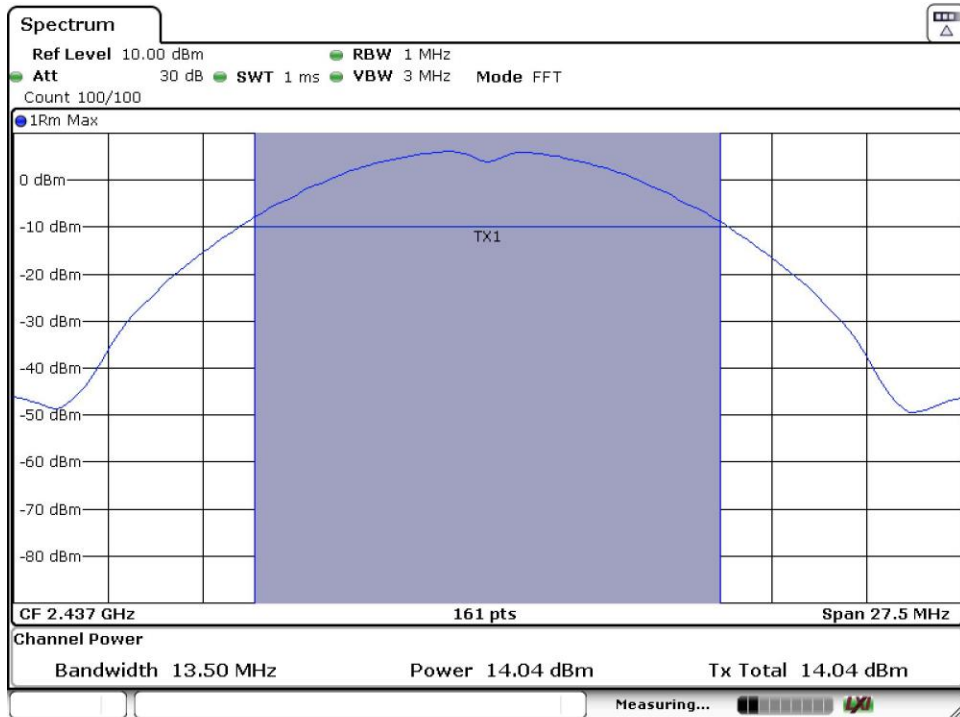
Lowest Channel



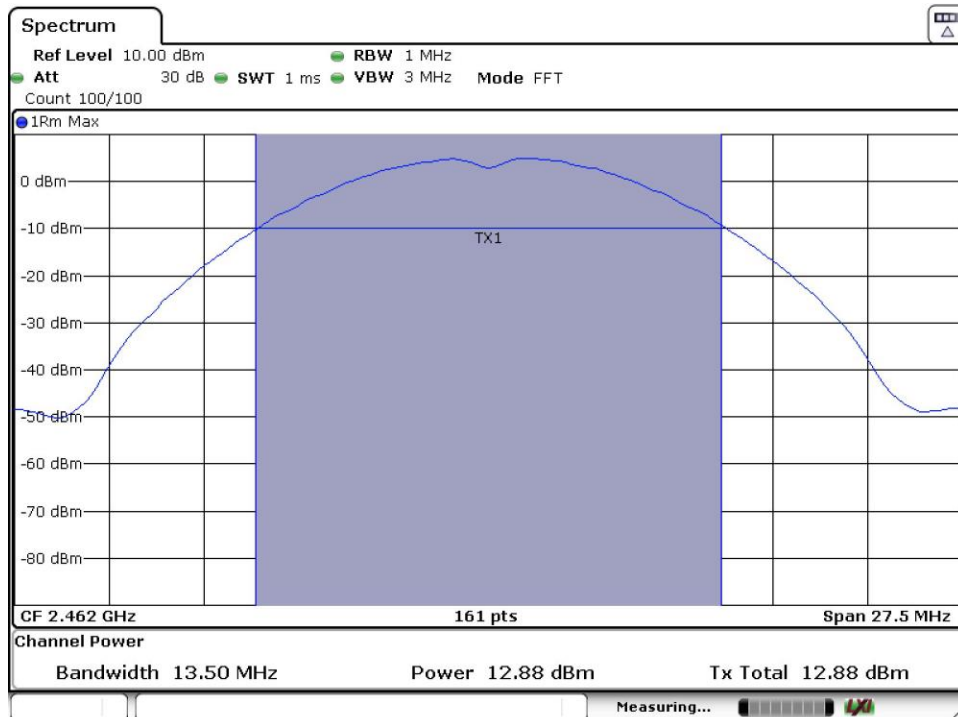
TEST RESULTS (Cont.):

CONDUCTED OUTPUT POWER

Middle Channel



Highest Channel



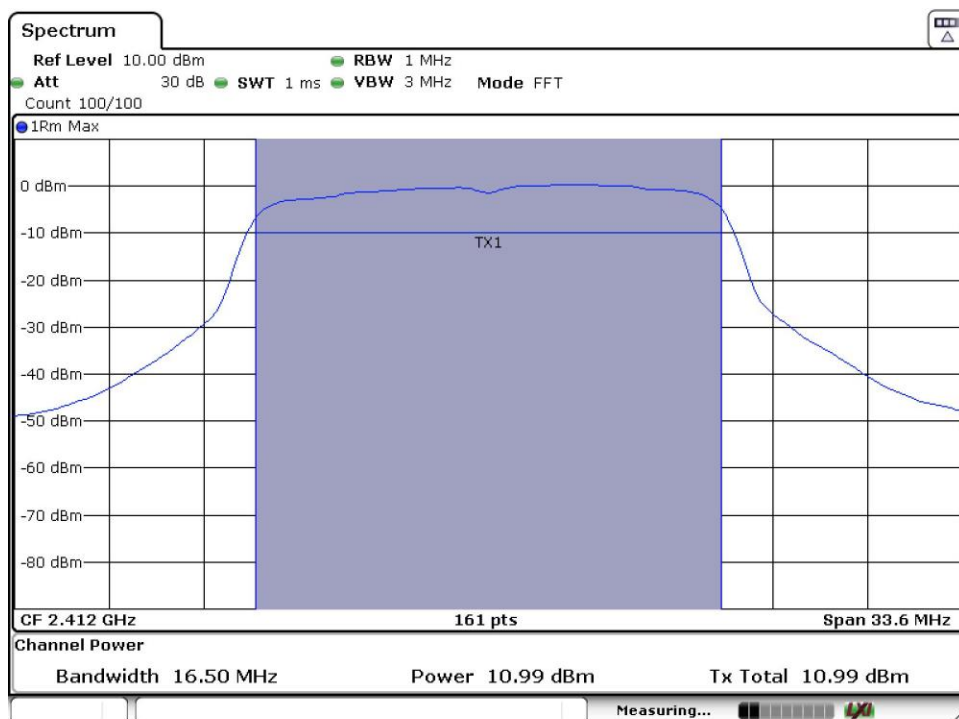
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (g mode)
TEST RESULTS:	PASS

Maximum declared antenna gain: 2.5 dBi

	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
Maximum conducted power (dBm)	10.99	11.18	10.68
Maximum EIRP power (dBm)	13.49	13.68	13.18
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.

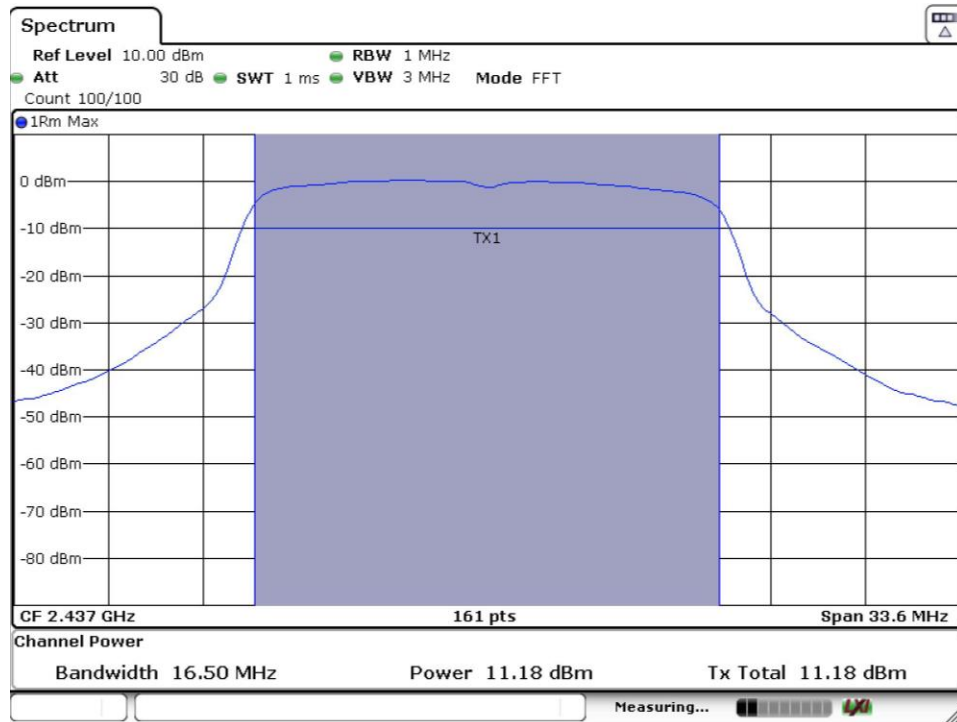
Lowest Channel



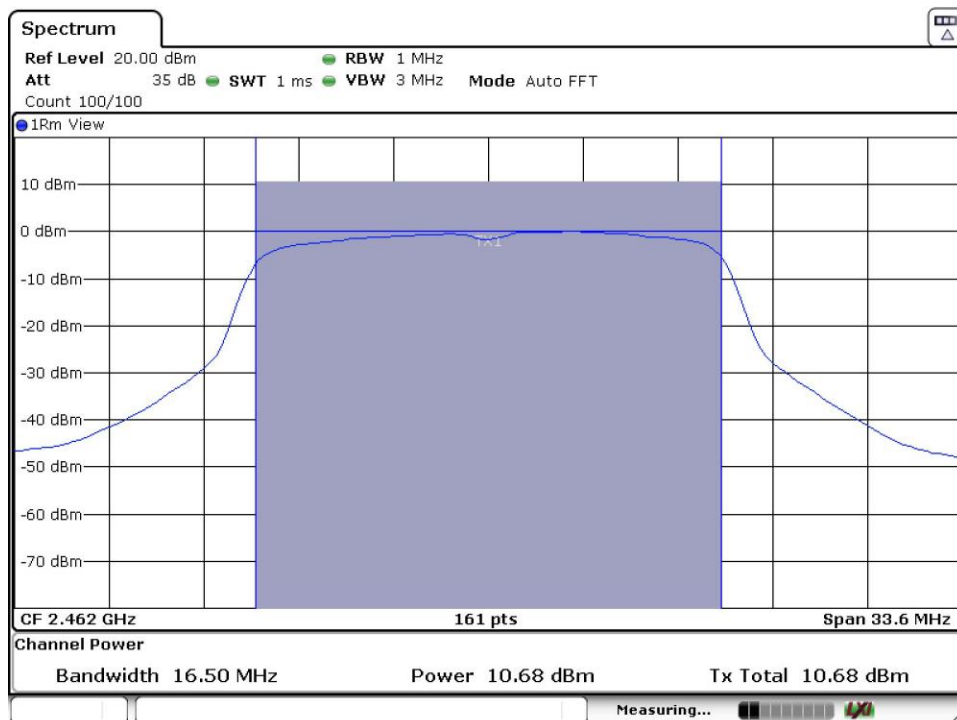
TEST RESULTS (Cont.):

CONDUCTED OUTPUT POWER

Middle Channel



Highest Channel



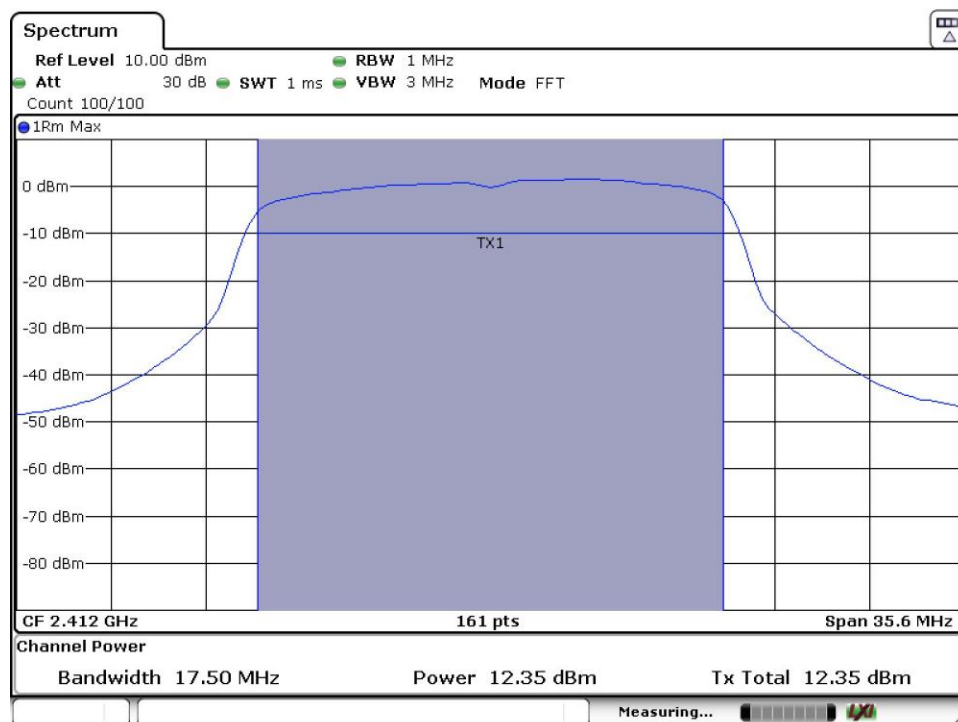
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (n20 mode)
TEST RESULTS:	PASS

Maximum declared antenna gain: 2.5 dBi

	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
Maximum conducted power (dBm)	12.35	12.96	12.43
Maximum EIRP power (dBm)	14.85	15.46	14.93
Measurement uncertainty (dB)	<±0.78		

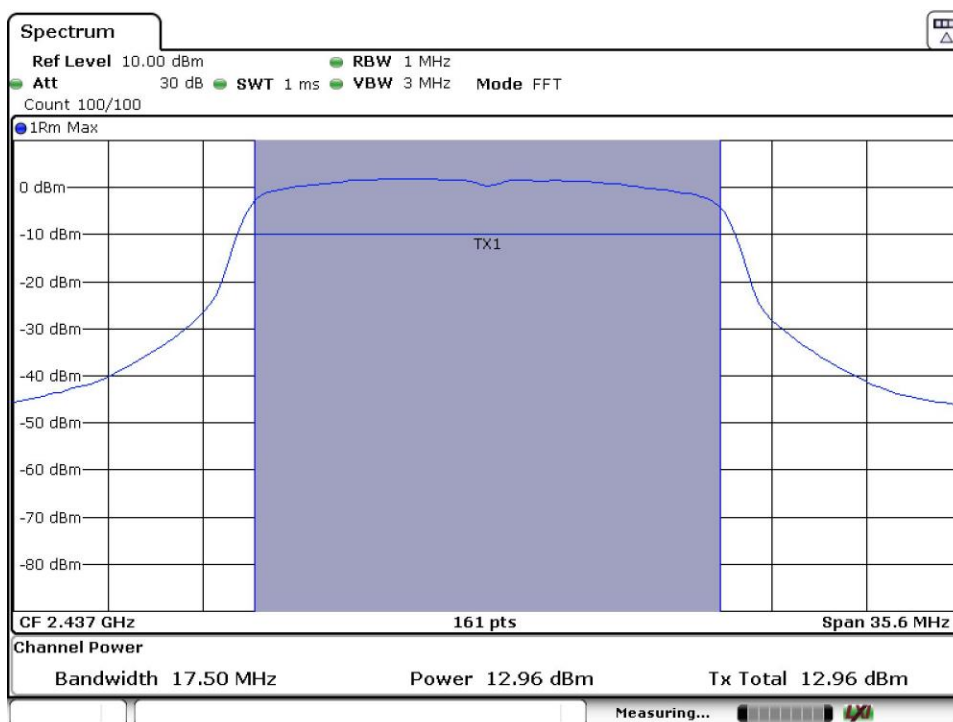
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

Lowest Channel

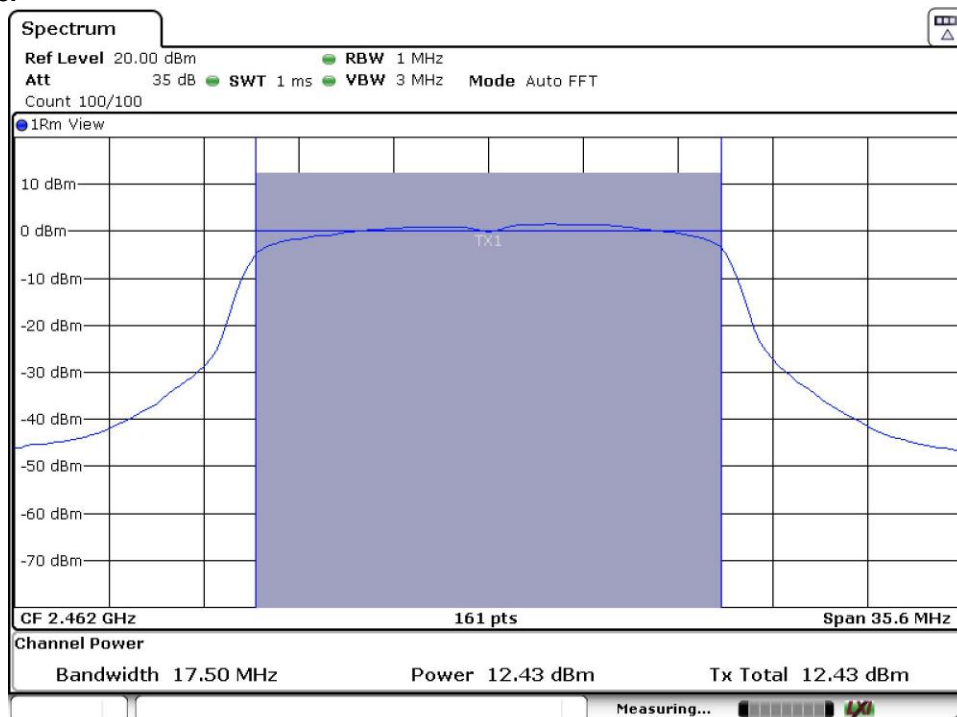


TEST RESULTS (Cont.)

Middle Channel



Highest Channel



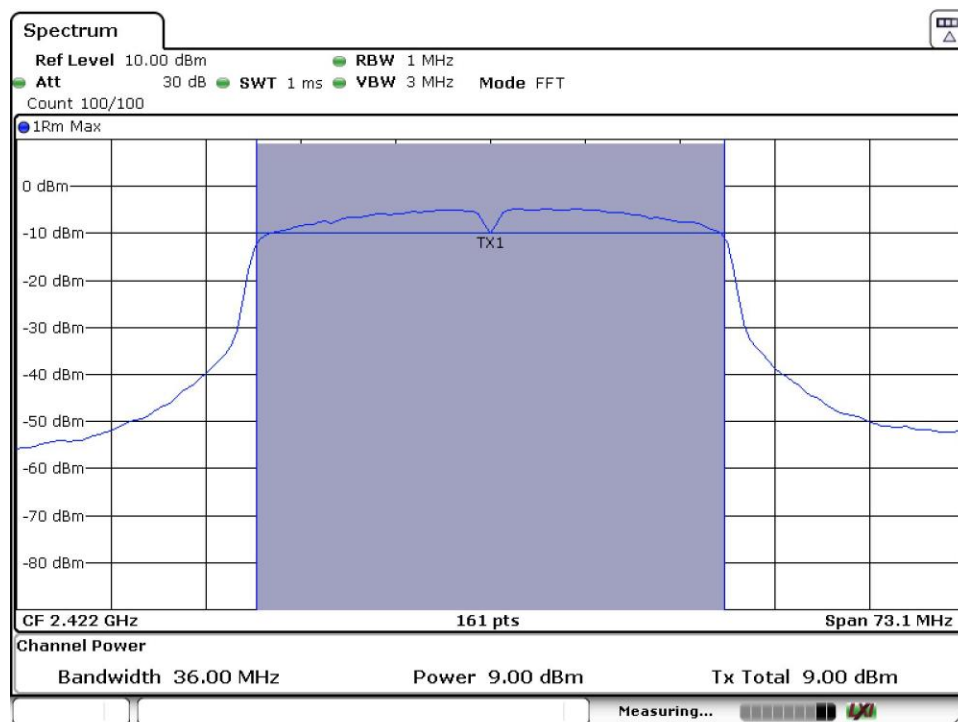
TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#04 (n40 mode)
TEST RESULTS:	PASS

Maximum declared antenna gain: 2.5 dBi

	Lowest frequency 2412 MHz	Middle frequency 2437 MHz	Highest frequency 2462 MHz
Maximum conducted power (dBm)	9.00	9.00	8.95
Maximum EIRP power (dBm)	11.50	11.50	11.45
Measurement uncertainty (dB)	<±0.78		

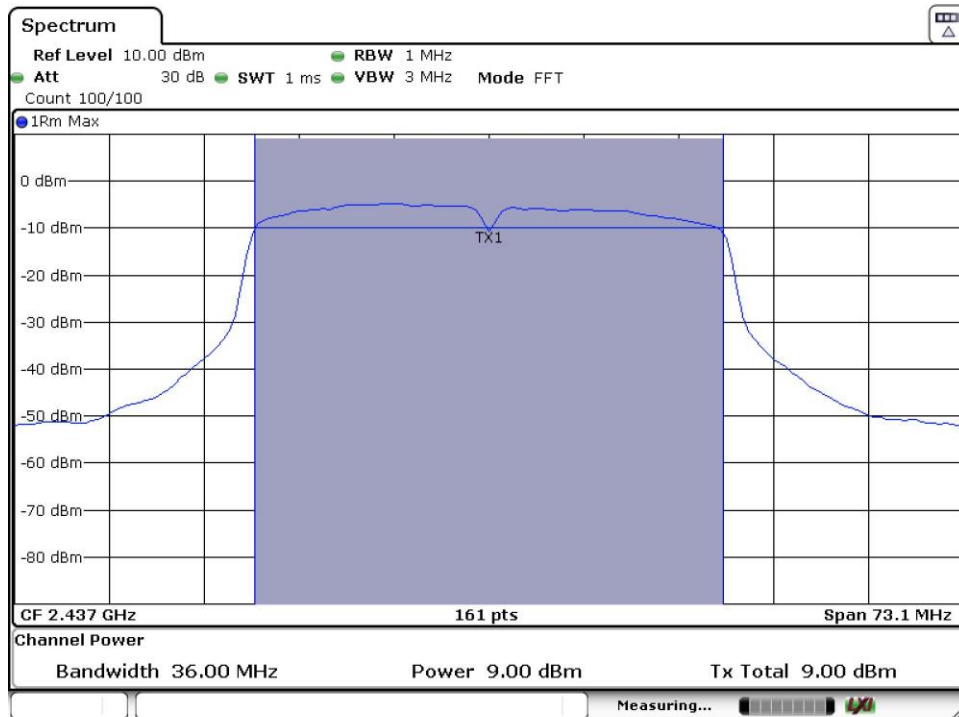
The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

Lowest Channel

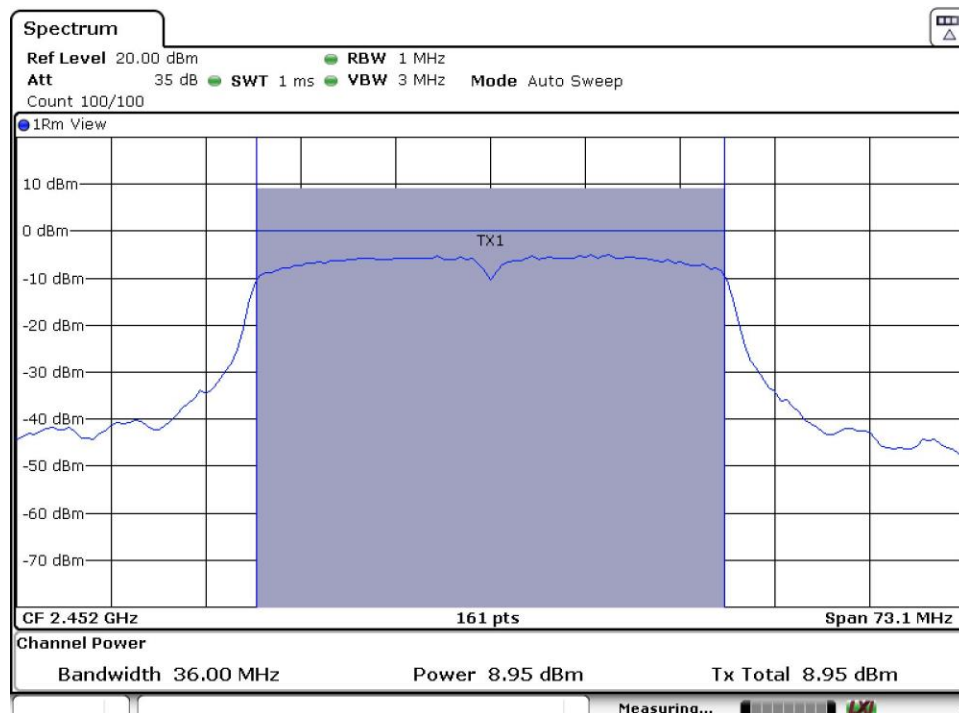


TEST RESULTS (Cont.)

Middle Channel



Highest Channel



TEST B.2: EMISSION LIMITATIONS RADIATED (TRANSMITTER)

LIMITS:	Product standard:	Part 15 Subpart C §15.247 and RSS-247
	Test standard:	Part 15 Subpart C §15.247(d) and RSS-247 5.5

LIMITS

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

TEST SETUP

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at 3 m for the frequency range 30-1000 MHz (Bilog antenna) and at 1m for the frequency range 1-40 GHz (1 GHz-18 GHz and 18 GHz-26 GHz Double ridge horn antennas).

For radiated emissions in the range 1-26 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.

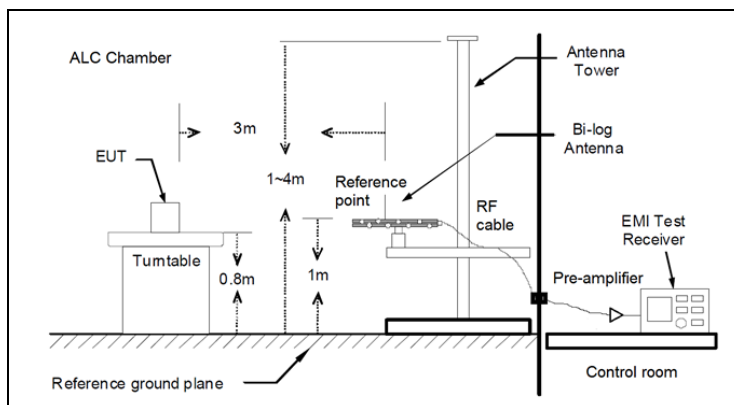
The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

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

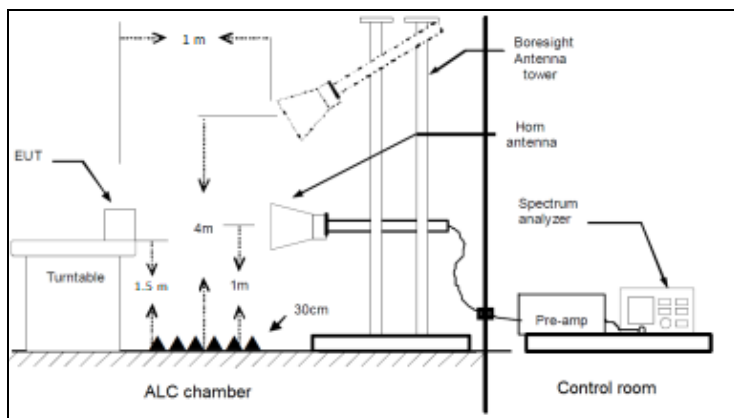
The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

TEST SETUP (CONT.)

Radiated measurements Setup $f < 1$ GHz



Radiated measurements setup $f > 1$ GHz



TESTED SAMPLES:

S/02

TESTED CONDITIONS MODES:

TC#01 (b mode)

TEST RESULTS:

PASS

Frequency range 30 MHz – 1000 MHz

The spurious emissions below 1 GHz do not depend on the operating channel and mode selected in the EUT. See worst operation mode selected for this range. (b mode)

Frequency range 1 GHz – 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 (see next plots).

The radiated spurious signals detected at less than 10 dB respect to the limit for the lowest, middle and highest operating channels are showed in the tables below of each frequency range.

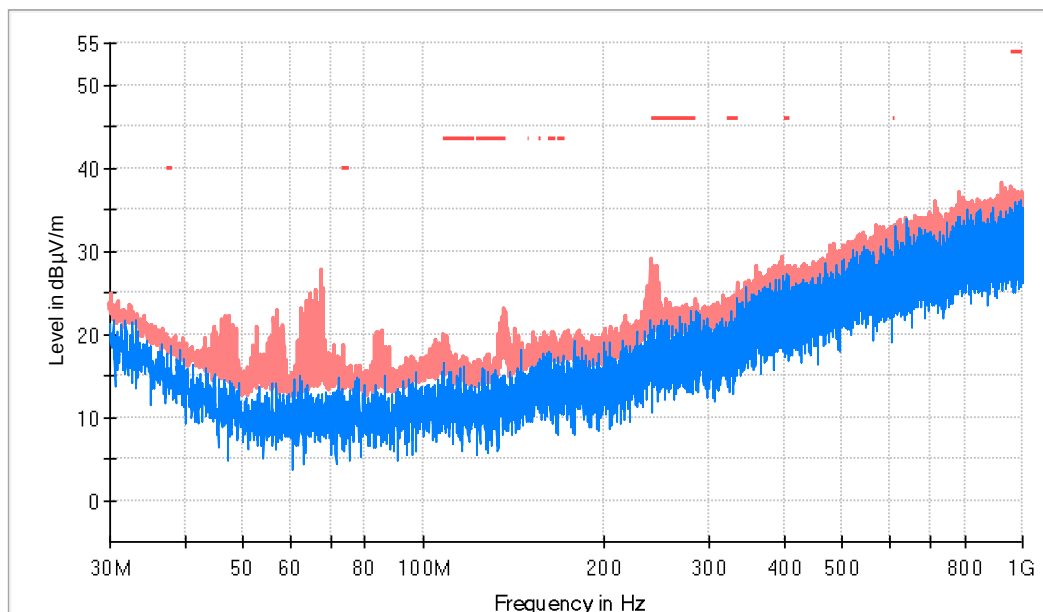
TEST RESULTS (Cont.)

FREQUENCY RANGE

30 MHz – 1 GHz

CHANNEL: Middle (2437 MHz).

RF_FCC_15.247_E Field_30MHz_1GHz



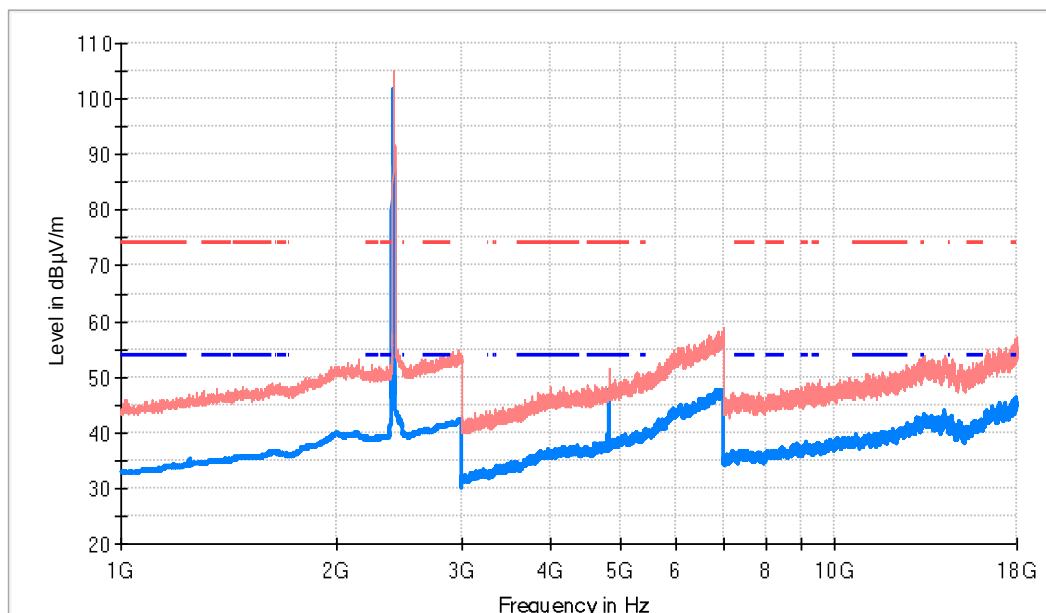
PK+_MAXH
PK+_CLRWR
TX limits to Spurious Emission FCC15.247 (30MHz to 1GHz) Restricted Bands QPK Limit

Frequency (MHz)	PK+_CLRWR (dBμV/m)	PK+_MAXH (dBμV/m)	Pol	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
37.614500	15.3	19.452	H	20.5	40.0
67.587500	8.8	27.761	V	---	---
136.797000	9.1	23.075	H	20.4	43.5
239.956500	20.6	28.994	H	---	---
255.234000	16.5	24.025	V	22.0	46.0
975.071000	30.0	37.292	V	16.7	54.0

TEST RESULTS (Cont.)

1 – 18 GHz

CHANNEL: Low (2412 MHz).



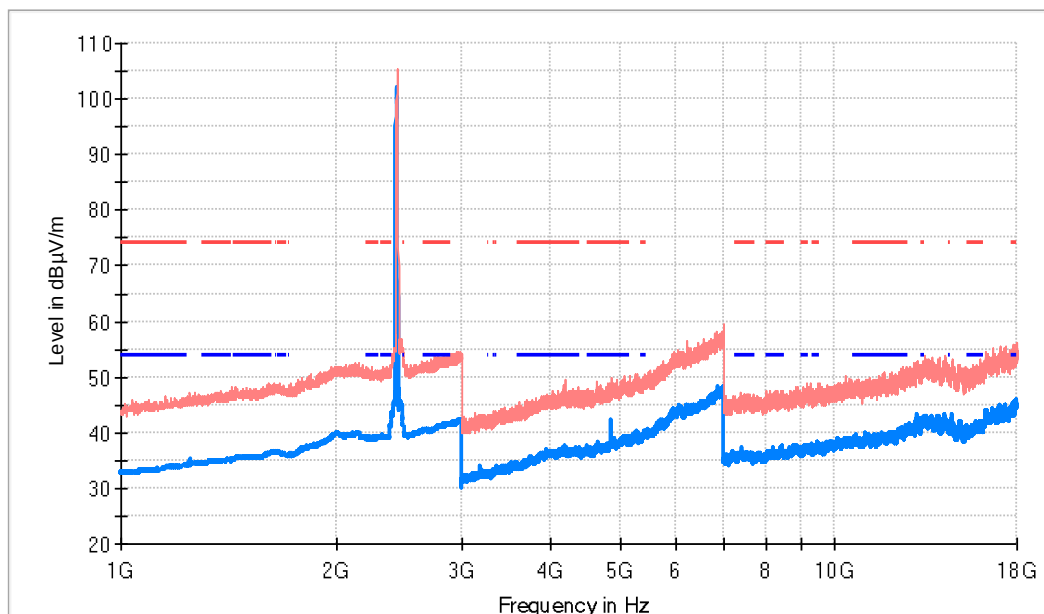
— AVG_MAXH
 — PK+_MAXH
 — TX limits to Spurious Emission FCC1 5.247 (1GHz to 26 GHz) Restricted Bands PK Limit
 — TX limits to Spurious Emission FCC1 5.247 (1GHz to 26 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBμV/m)	Comment
2413.500000	105.2	101.4	V	---	---	Fundamental
4824.000000	51.6	47.6	V	6.4	54.0	

TEST RESULTS (Cont.)

1 – 18 GHz

CHANNEL: Middle (2437 MHz).



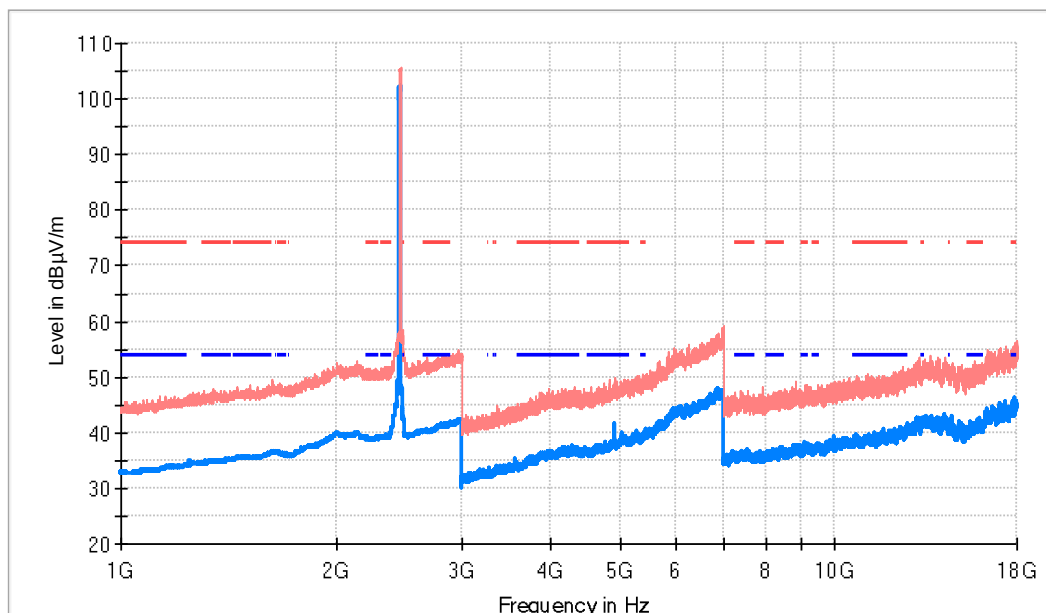
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+ MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
2438.500000	105.3	101.4	V	---	---	Fundamental
4874.000000	49.9	42.2	V	11.8	54.0	

TEST RESULTS (Cont.)

1 – 18 GHz

CHANNEL: Highest (2462 MHz).

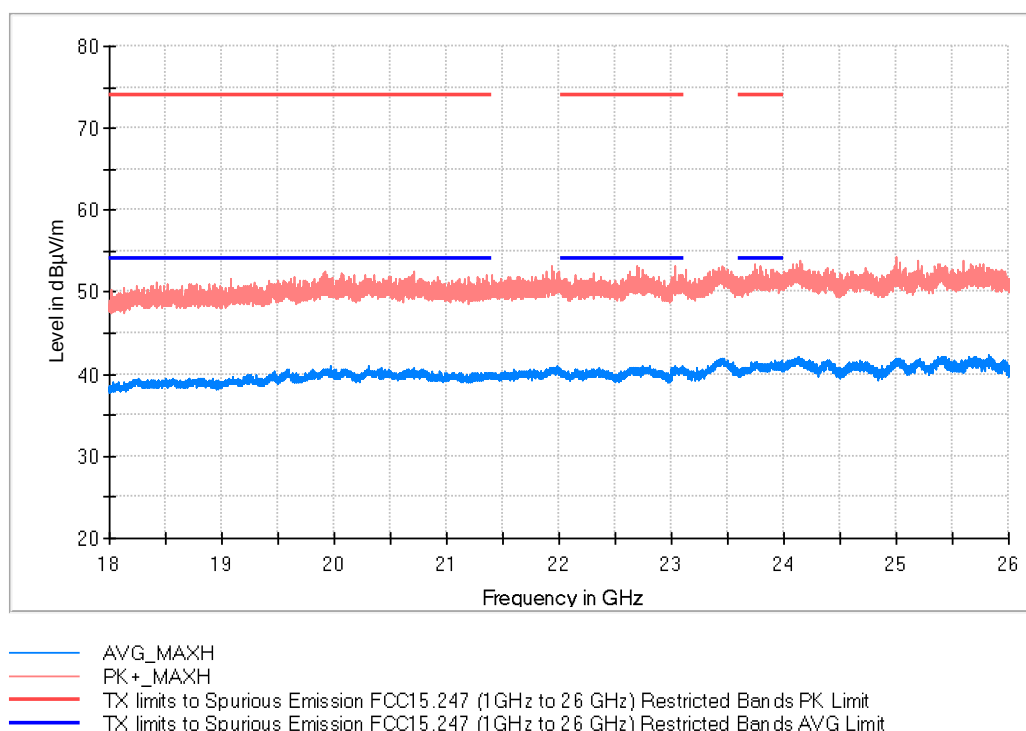


— AVG_MAXH
 — PK+_MAXH
 — TX limits to Spurious Emission FCC1 5.247 (1GHz to 26 GHz) Restricted Bands PK Limit
 — TX limits to Spurious Emission FCC1 5.247 (1GHz to 26 GHz) Restricted Bands AVG Limit

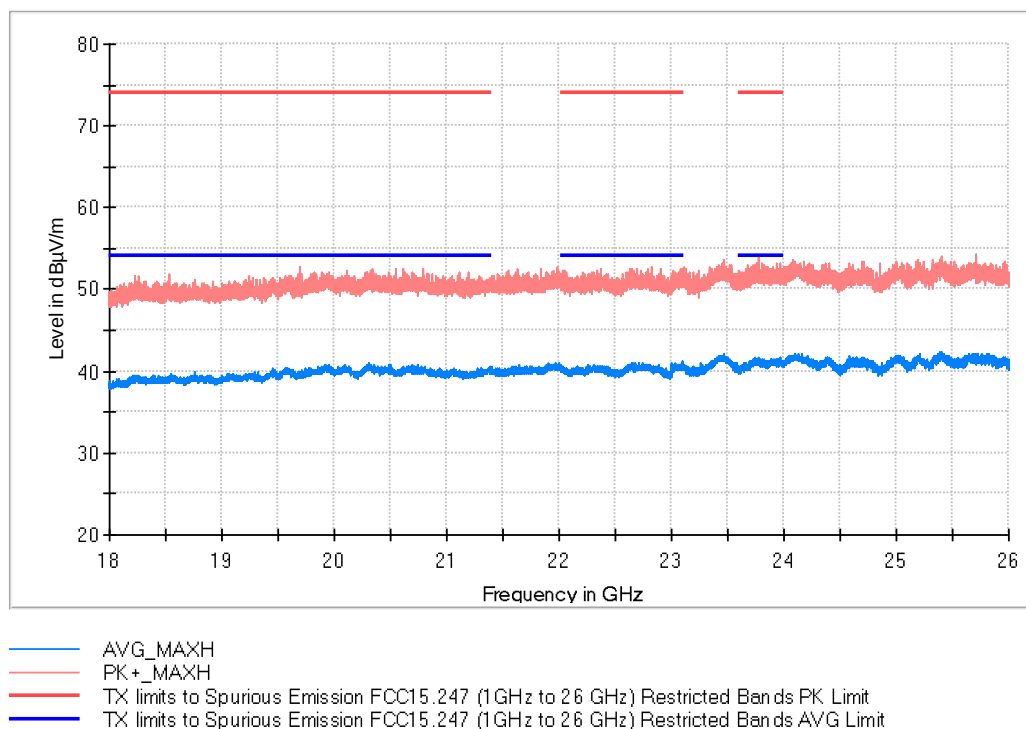
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
2463.500000	105.7	101.9	V	---	---	Fundamental
4924.000000	50.0	41.6	V	12.4	54.0	

TEST RESULTS (Cont.)	
FREQUENCY RANGE	18 GHz – 26 GHz

CHANNEL: Lowest (2412 MHz).

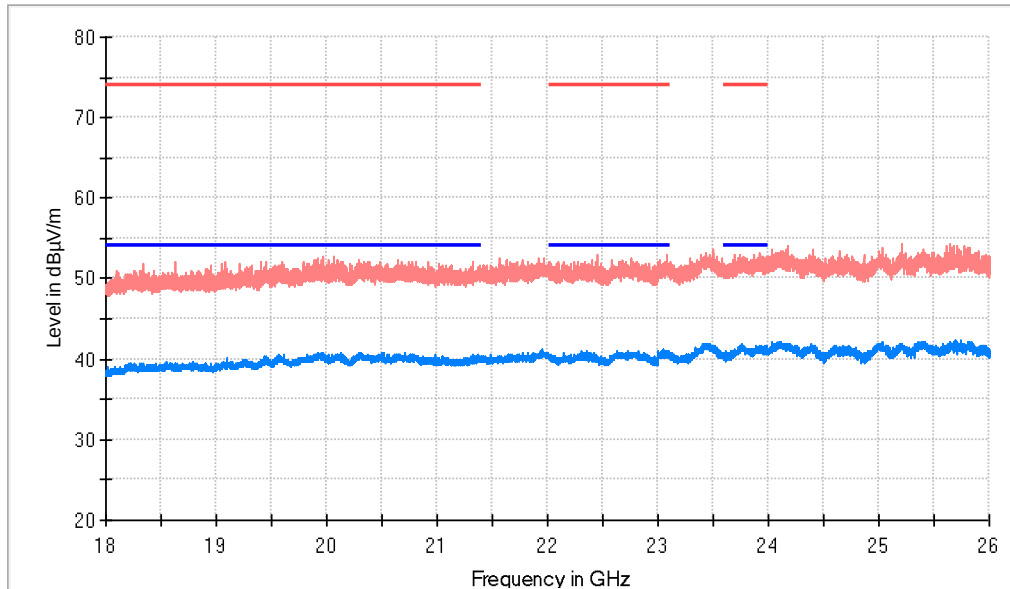


CHANNEL: Middle (2437 MHz).



TEST RESULTS (Cont.)

CHANNEL: Highest (2462 MHz).

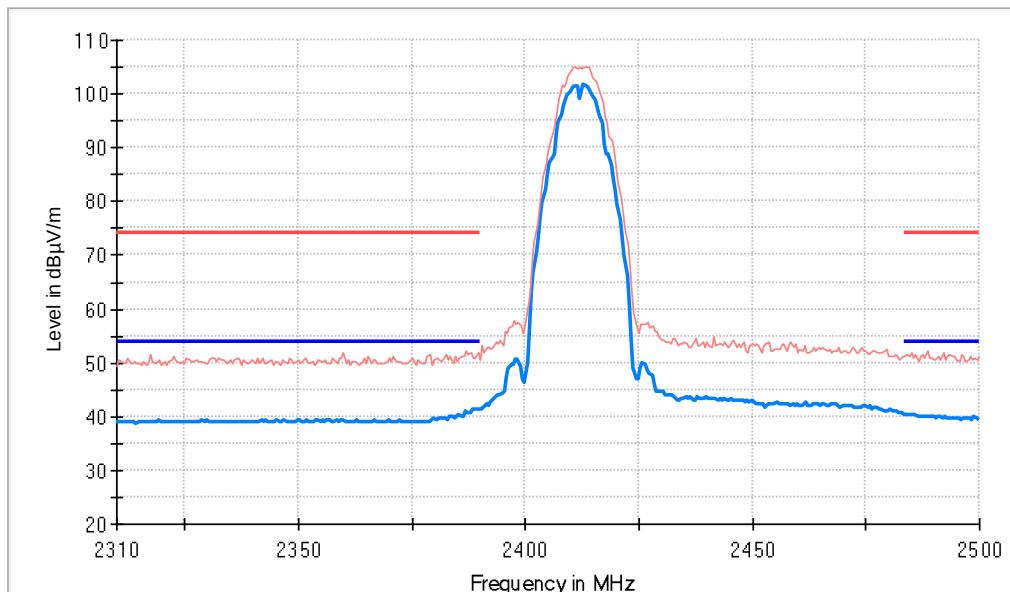


- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands AVG Limit

RESTRICTED BANDS

2.31 GHz – 2.5 GHz

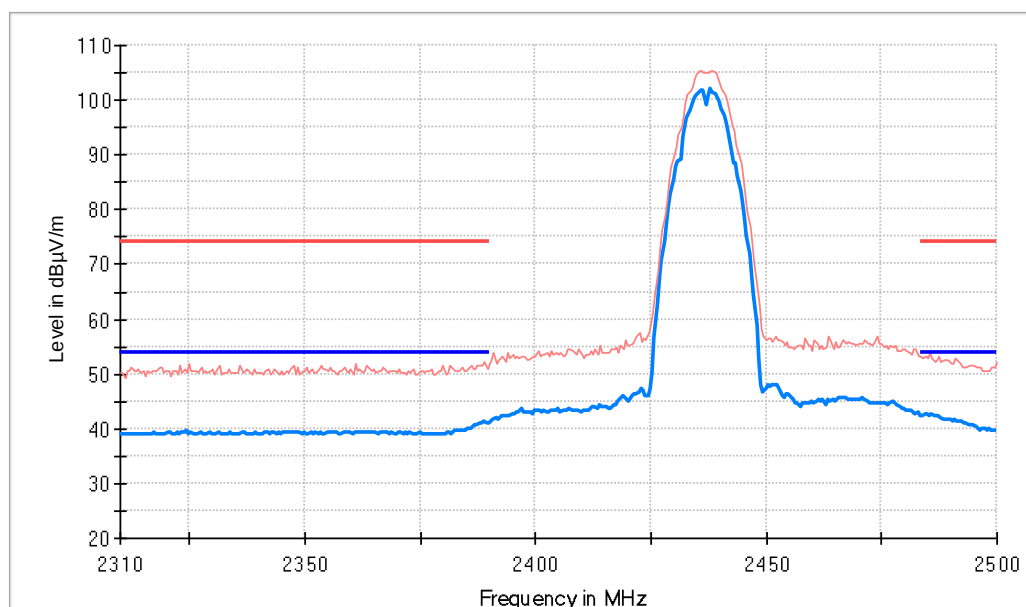
CHANNEL: Lowest (2412 MHz)



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands AVG Limit

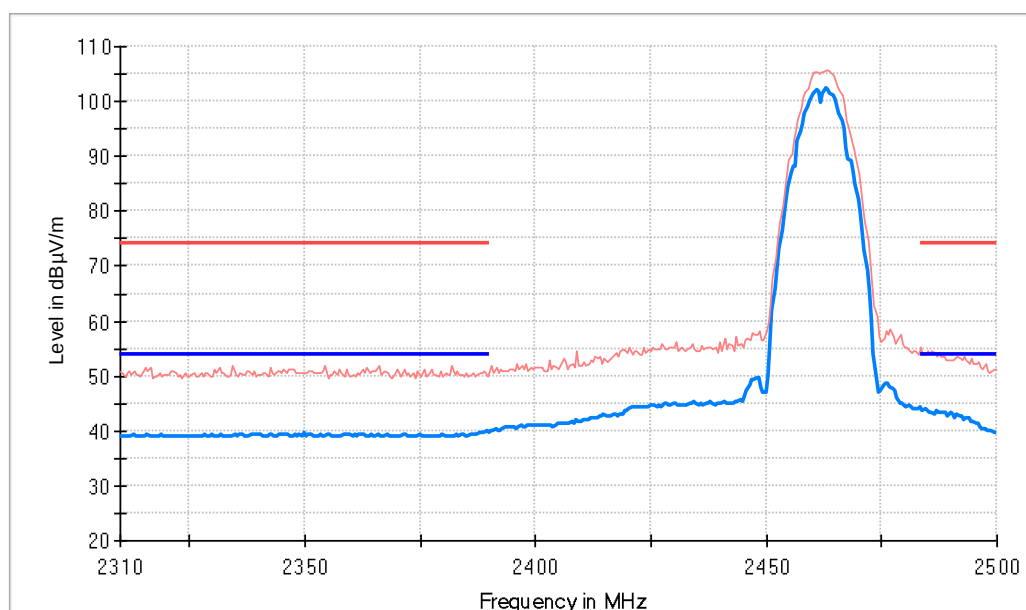
TEST RESULTS (Cont.)

CHANNEL: Middle (2437 MHz)



- AVG_MAXH
- PK+MAXH
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands AVG Limit

CHANNEL: Highest (2462 MHz)



- AVG_MAXH
- PK+MAXH
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands AVG Limit

TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#02 (g mode)
TEST RESULTS:	PASS

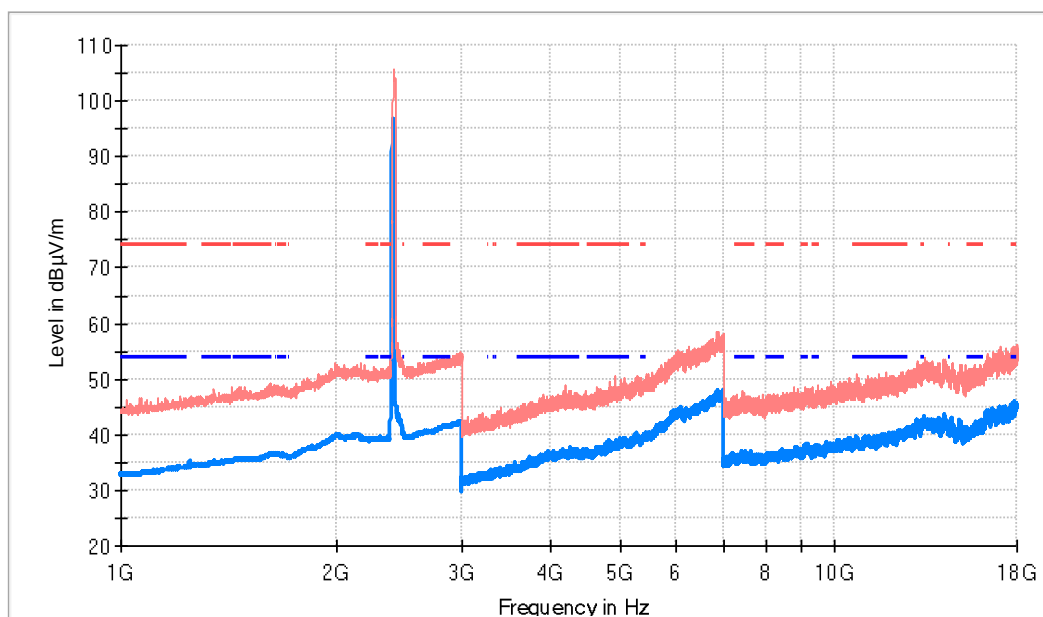
Frequency range 1 GHz – 26 GHz

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 (see next plots).

The radiated spurious signals detected at less than 10 dB respect to the limit for the lowest, middle and highest operating channels are showed in the tables below of each frequency range.

FREQUENCY RANGE	1- 18 GHz
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CHANNEL: Low (2412 MHz).



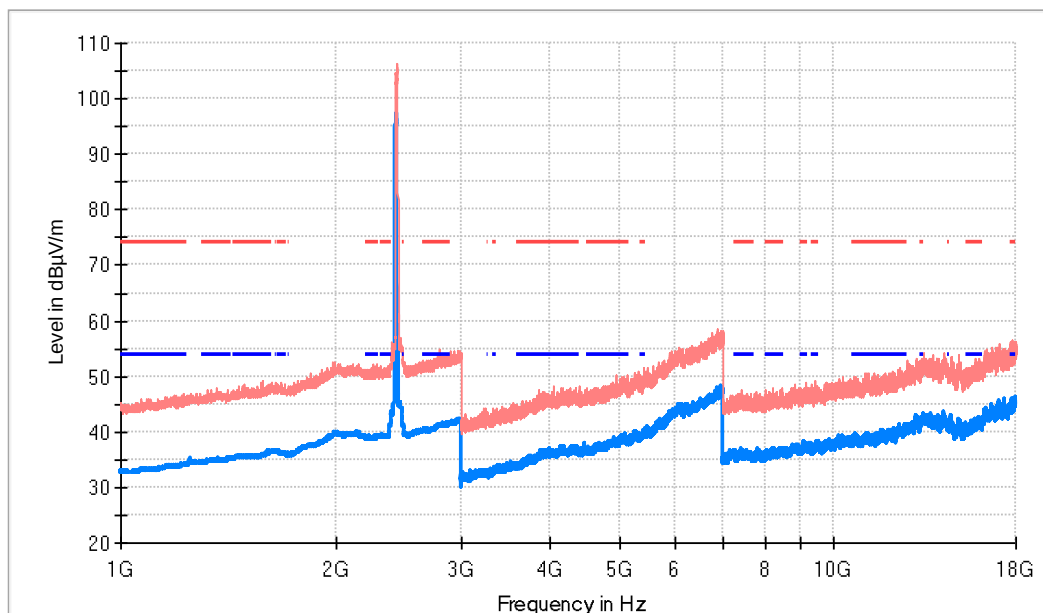
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBμV/m)	AVG_MAXH (dBμV/m)	Pol	Margin - (dB)	Limit - (dBμV/m)	Comment
2415.500000	105.7	96.7	V	---	---	Fundamental

TEST RESULTS (Cont.)

1 – 18 GHz

CHANNEL: Middle (2437 MHz).



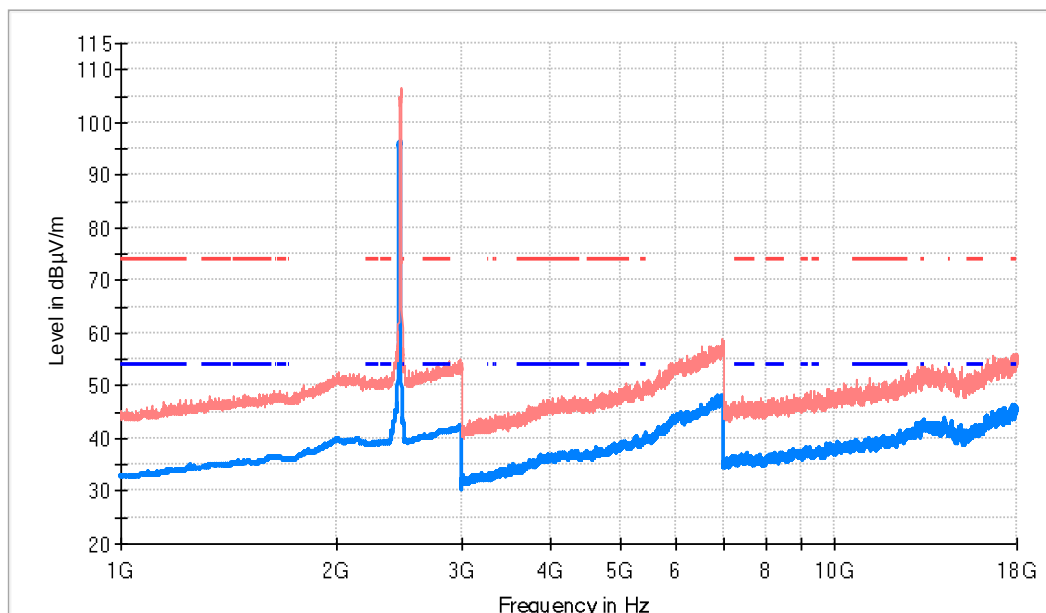
- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - (dB)	Limit - (dBµV/m)	Comment
2439.500000	106.2	97.4	V	---	---	Fundamental

TEST RESULTS (Cont.)

1 – 18 GHz

CHANNEL: Highest (2462 MHz).

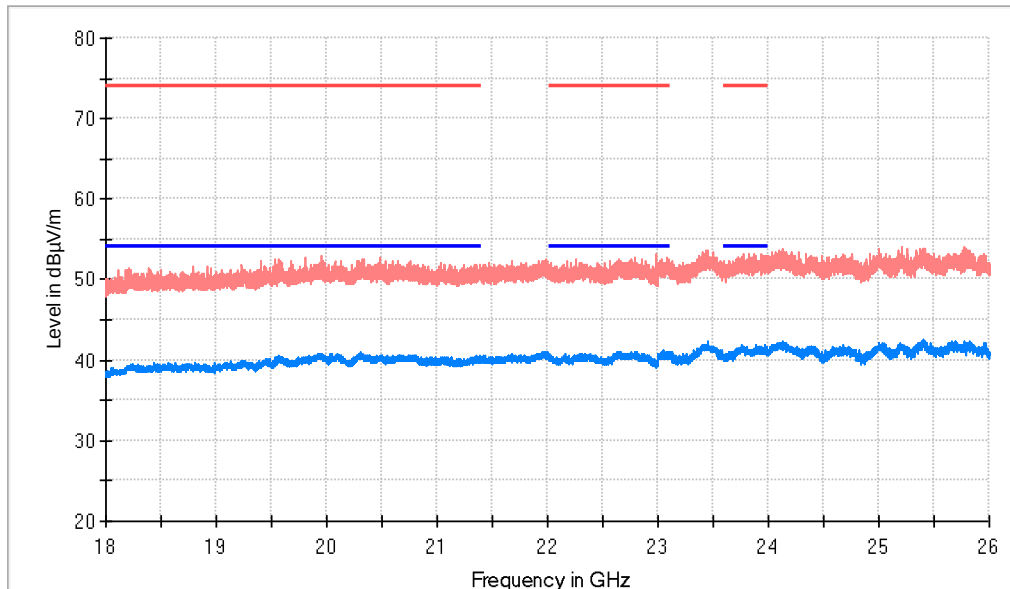


— AVG_MAXH
 — PK+_MAXH
 — TX limits to Spurious Emission FCC1 5.247 (1GHz to 26 GHz) Restricted Bands PK Limit
 — TX limits to Spurious Emission FCC1 5.247 (1GHz to 26 GHz) Restricted Bands AVG Limit

Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - (dB)	Limit - (dBµV/m)	Comment
2463.000000	106.7	95.6	V	---	---	Fundamental

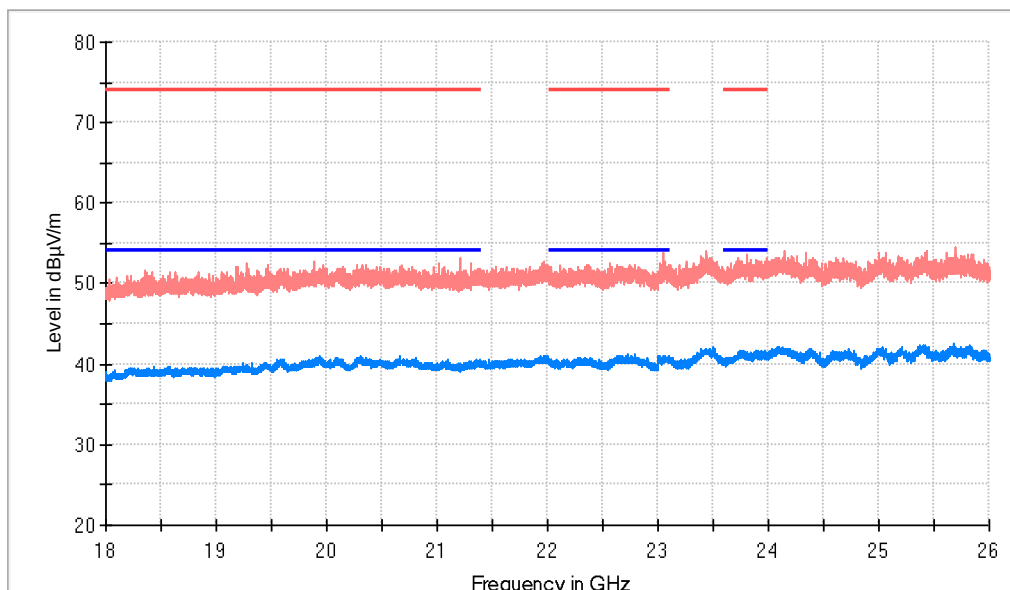
TEST RESULTS (Cont.)	
FREQUENCY RANGE	18 GHz – 26 GHz

CHANNEL: Lowest (2412 MHz).



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands AVG Limit

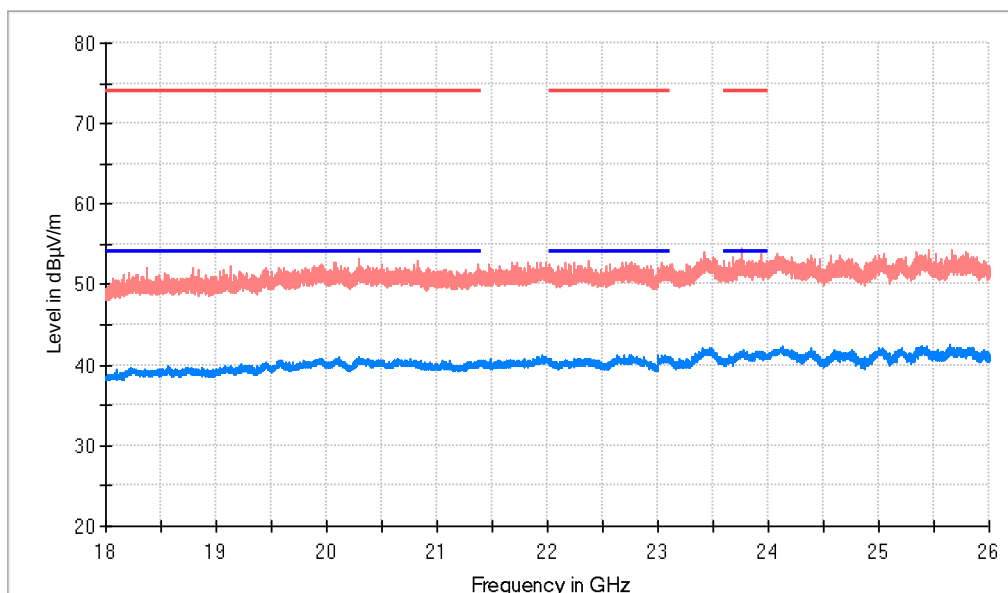
CHANNEL: Middle (2437 MHz).



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands AVG Limit

TEST RESULTS (Cont.)

CHANNEL: Highest (2462 MHz).

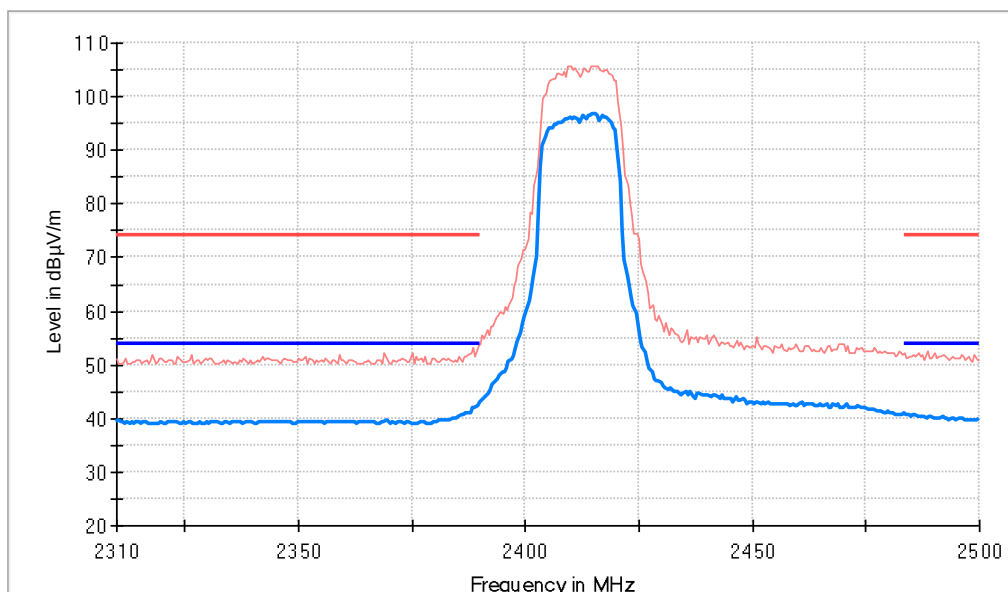


- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands AVG Limit

RESTRICTED BANDS

2.31 GHz – 2.5 GHz

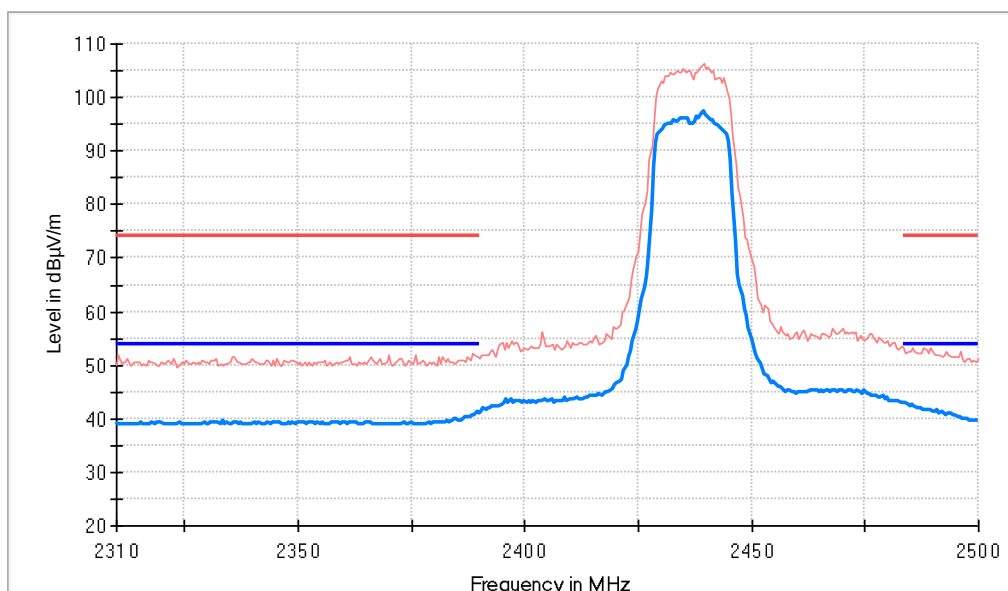
CHANNEL: Lowest (2412 MHz)



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands AVG Limit

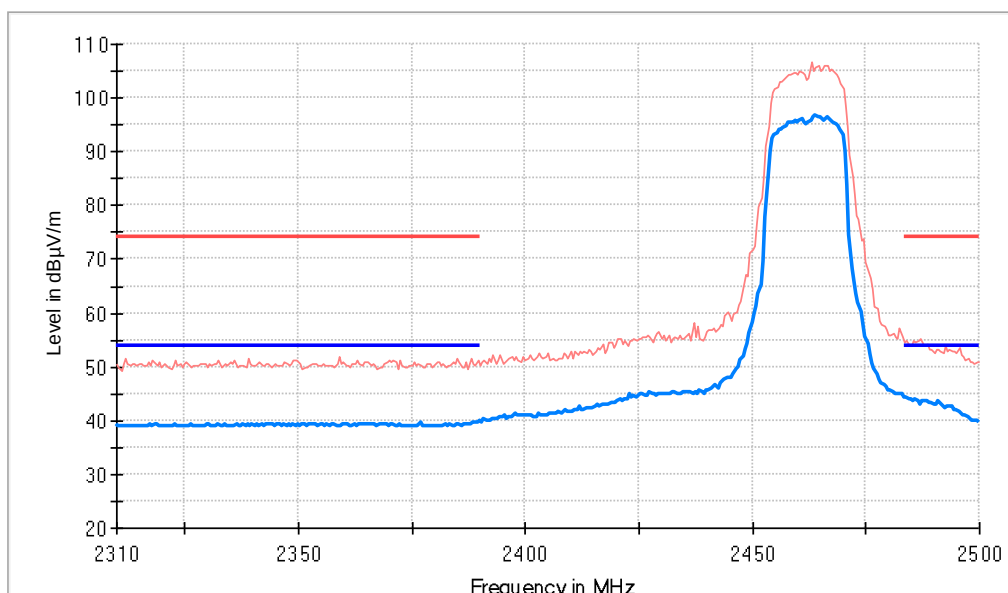
TEST RESULTS (Cont.)

CHANNEL: Middle (2437 MHz)



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands AVG Limit

CHANNEL: Highest (2462 MHz)



- AVG_MAXH
- PK+_MAXH
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands PK Limit
- TX limits to Spurious Emission FCC15.247 (1GHz to 26 GHz) Restricted Bands AVG Limit