



FCC Test Report

Report No: FCS20200212006W01

Issued for

Shenzhen anked vision electronics co. LTD

6th Floor, NO. 5 Building, LongBi industrial Park, Dafa Road
BanTian, Longgang, Shenzhen, China

Product Name:	WiFi Internet Camera
Brand Name:	N/A
Model Name:	AK-8505
Series Model:	N/A
FCC ID:	2AVQIAK8505
Test Standard:	FCC Part 15.247
Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.FCS-lab.com	

TEST RESULT CERTIFICATION

Applicant's Name: Shenzhen anked vision electronics co. LTD
 Address.....: 6th Floor, NO. 5 Building, LongBi industrial Park, Dafa Road
 BanTian, Longgang, Shenzhen, China
 Manufacture's Name: Shenzhen anked vision electronics co. LTD
 Address.....: 6th Floor, NO. 5 Building, LongBi industrial Park, Dafa Road
 BanTian, Longgang, Shenzhen, China

Product Description

Product Name: WiFi Internet Camera
 Brand Name: N/A
 Model Name.....: AK-8505
 Series Model: N/A
 Test Standards: FCC Part15.247
 Test Procedure: ANSI C63.10-2013

This device described above has been tested by Flux Compliance Service Laboratory, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test.....:

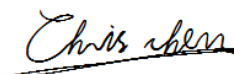
Date (s) of performance of tests : 1 Feb 2020 to 12 Feb 2020

Date of Issue: 12 Feb 2020

Test Result: Pass

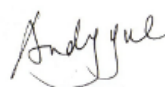
Compiled by

:



(Chris Chen)

Authorized Signatory :



(Andy yue)

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	12 Feb 2020	FCS20120212006W01	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02

FCC Part 15.247, Subpart C			
Standard Section	Test Item	Judgment	Remark
FCC 15.247 (a) (2)	6dB Bandwidth	PASS	--
FCC 15.247 (b) (3)	Conducted Output Power	PASS	--
FCC 15.247 (e)	Power Spectral Density	PASS	--
FCC 15.247 (d)	Band-edge and Spurious Emissions (Conducted)	PASS	--
FCC 15.247 (d) FCC 15.209 FCC 15.205	Radiated Spurious Emissions	PASS	--
FCC 15.247 (d) FCC 15.209 FCC 15.205	Radiated Band Edge Compliance	PASS	--
FCC 15.207	Power Line Conducted Emission	PASS	--
FCC 15.203	Antenna requirement	PASS	--
15.205	Restricted Band Edge Emission	PASS	--

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) All tests are according to ANSI C63.10-2013

1.1 TEST FACTORY

Company Name:	Flux Compliance Service Laboratory
Address:	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan
Telephone:	+86-769-27280901
Fax:	+86-769-27280901
FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number: 5545.01	

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	RF output power, conducted	± 0.71 dB
2	Unwanted Emissions, conducted	± 2.988 dB
3	Conducted Emission (9KHz-150KHz)	± 4.13 dB
4	Conducted Emission (150KHz-30MHz)	± 4.74 dB
5	All emissions, radiated (<1G) 30MHz-1000MHz	± 5.2 dB
6	All emissions, radiated (>1G) 1000MHz -3000MHz	± 4.66 dB
7	All emissions, radiated (<1G) 3000MHz -6000MHz	± 5.31 dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	WiFi Internet Camera
Trade Name	N/A
Model Name	AK-8505
Series Model	N/A
Model Difference	N/A
Channel List	Please refer to the Note 2.2.
WIFI	<p>Frequency:</p> <p>IEEE 802.11b: 2412MHz-2462MHz</p> <p>IEEE 802.11g: 2412MHz-2462MHz</p> <p>IEEE 802.11n HT20: 2412MHz-2462MHz</p> <p>IEEE 802.11n HT40: 2422MHz-2452MHz</p> <p>Modulation:</p> <p>IEEE 802.11b: DSSS (CCK, QPSK, BPSK)</p> <p>IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)</p> <p>IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)</p>
Adapter	AC 100-240V/50HZ-60HZ
Battery	DC 5V
Hardware version number	AJ-SSC325-SC25-DBYTJ-V1.0
Software version number	9.1.01031
Connecting I/O Port(s)	Please refer to the User's Manual

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

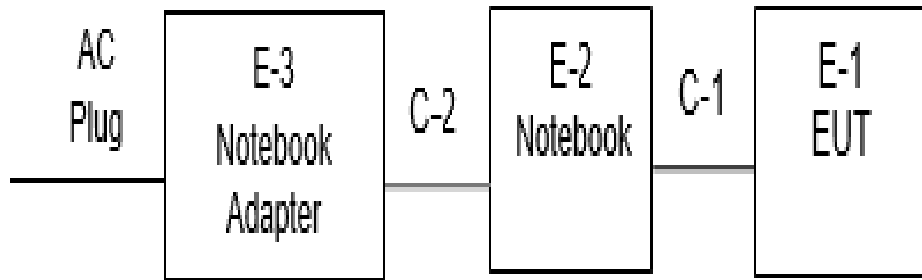
3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	Phaiser Fusion One	Integrated antenna	N/A	1.90B dBi	Antenna

2.2 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Conducted Emission Test



2.3 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-3	N/A	N/A	N/A	N/A	N/A
C-2	N/A	N/A	110cm	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-2	Notebook	DELL	VOSTRO.3800	N/A	N/A
C-1	USB Cable	N/A	100cm	N/A	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.4 EQUIPMENTS LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESRP 3	FCS-E001	2019.05.31	2020.05.30
Signal Analyzer	R&S	FSV40-N	FCS-E012	2019.06.05	2020.06.04
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2019.10.09	2020.10.10
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2019.10.26	2020.10.25
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2019.05.31	2020.05.30
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2019.05.31	2020.05.30
Pre-Amplifier(0.1M-3G Hz)	EMCI	EM330N	FCS-E004	2019.05.31	2020.05.30
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2019.10.03	2020.10.02
Temperature & Humidity	HTC-1	victor	FCS-E005	2019.05.31	2020.05.30

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	FCS-E020	2019.05.31	2020.05.30
LISN	R&S	ENV216	FCS-E007	2019.05.15	2020.05.14
LISN	ETS	3810/2NM	FCS-E009	2019.10.15	2020.10.14
Temperature & Humidity	HTC-1	victor	FCS-E008	2019.05.31	2020.05.30

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
MXA SIGNAL Analyzer	Keysight	N9020A	FCS-E015	2019.10.02	2020.10.01

3. 6DB BANDWIDTH

3.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz

3.2 Test Procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Set the spectrum analyzer as follows

RBW: 100kHz

VBW: 300kHz

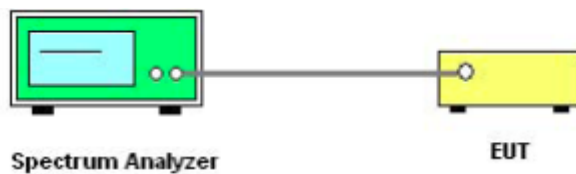
Detector Mode: Peak

Sweep time: auto

Trace mode Max hold

(3) Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

3.3 Test setup

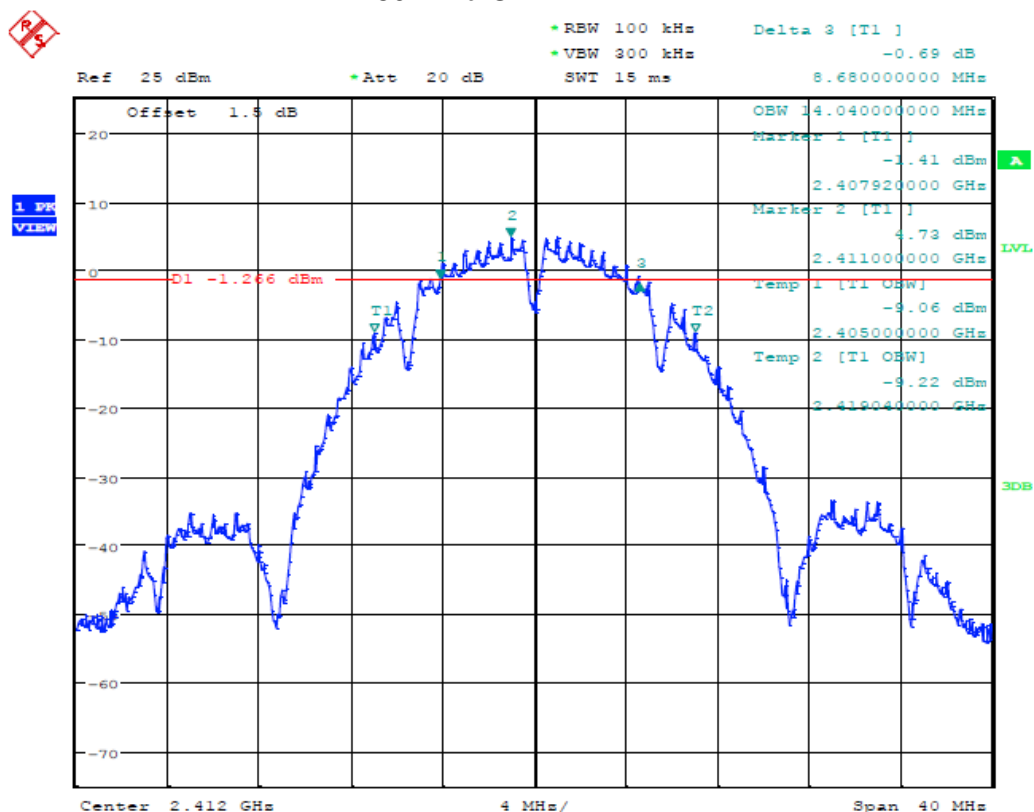


3.4 Test results

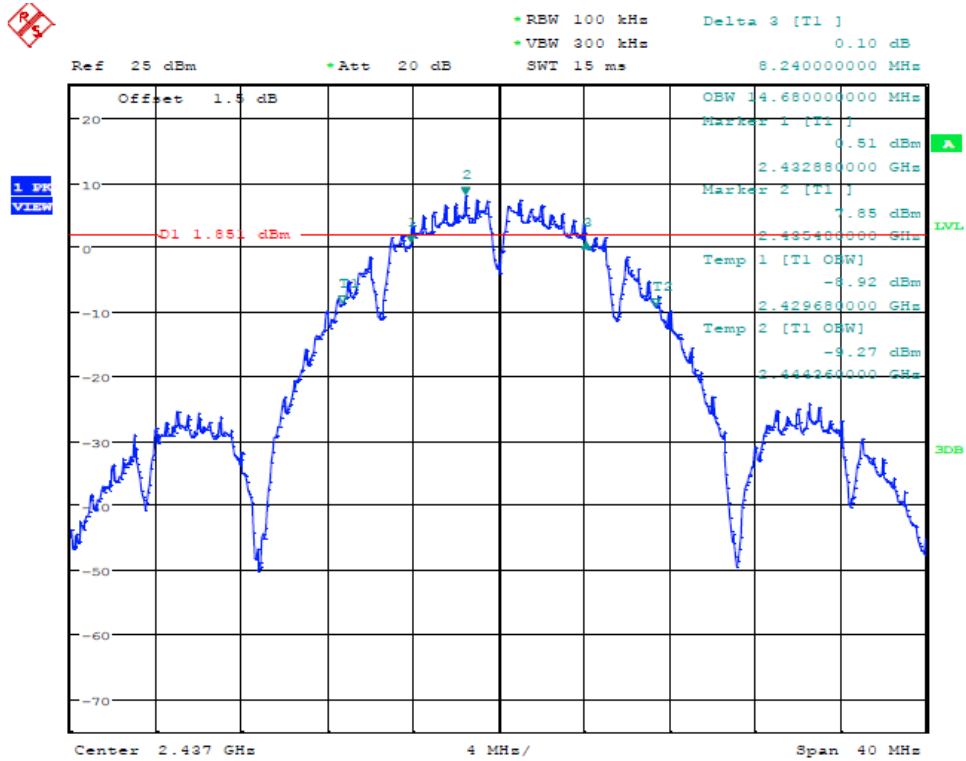
TestMode	Channel (MHz)	6dB Bandwidth (MHz)	Limit [MHz]	Verdict
802.11b	2412MHz	8.680	0.5	Pass
802.11b	2437MHz	8.240	0.5	Pass
802.11b	2462MHz	8.640	0.5	Pass
802.11g	2412MHz	15.160	0.5	Pass
802.11g	2437MHz	15.400	0.5	Pass
802.11g	2462MHz	16.040	0.5	Pass
802.11n 20	2412MHz	16.000	0.5	Pass
802.11n 20	2437MHz	16.880	0.5	Pass
802.11n 20	2462MHz	16.960	0.5	Pass
802.11n 40	2422MHz	35.200	0.5	Pass
802.11n 40	2437MHz	35.360	0.5	Pass
802.11n 40	2452MHz	35.200	0.5	Pass

3.5 Original Test Data

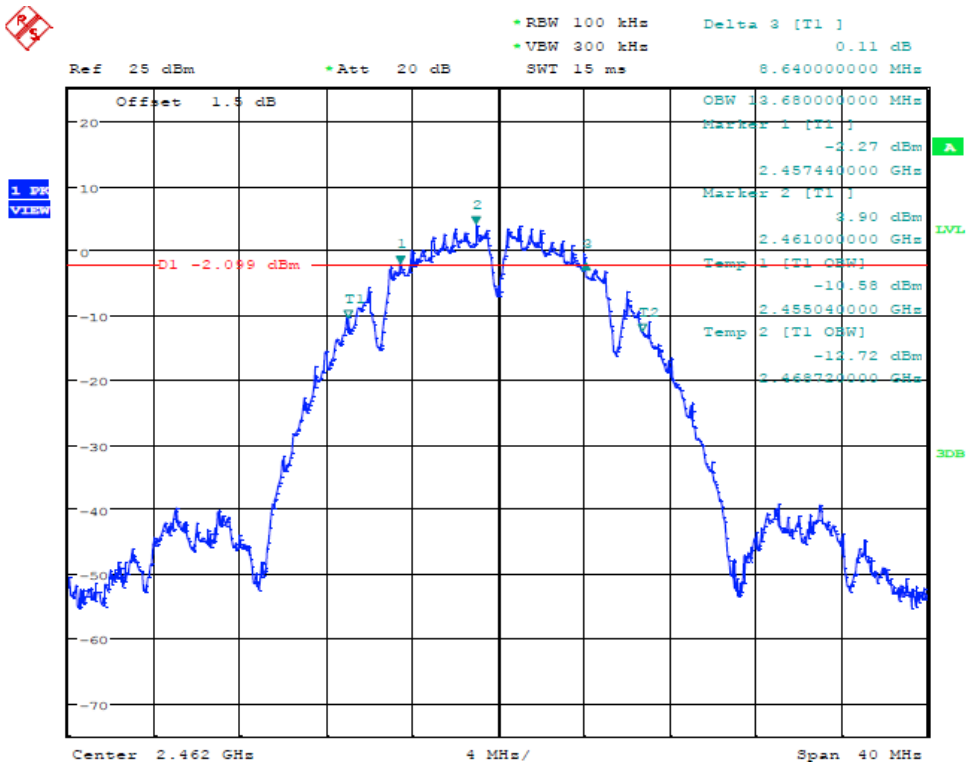
802.11b-CH2412MHZ



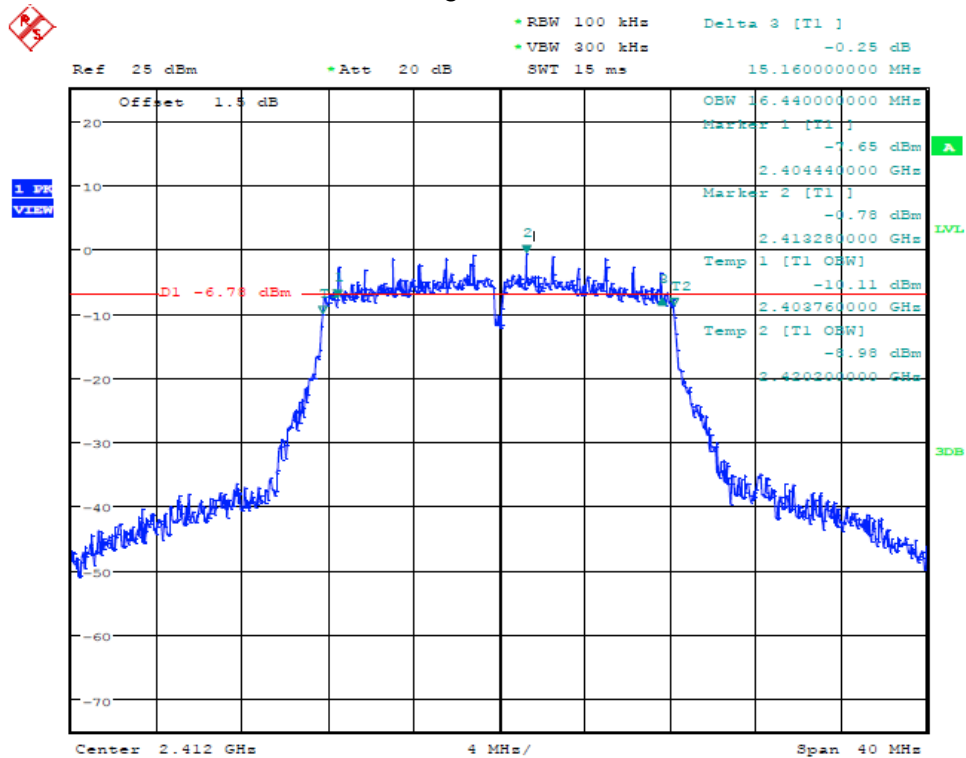
802.11b-CH237MHZ



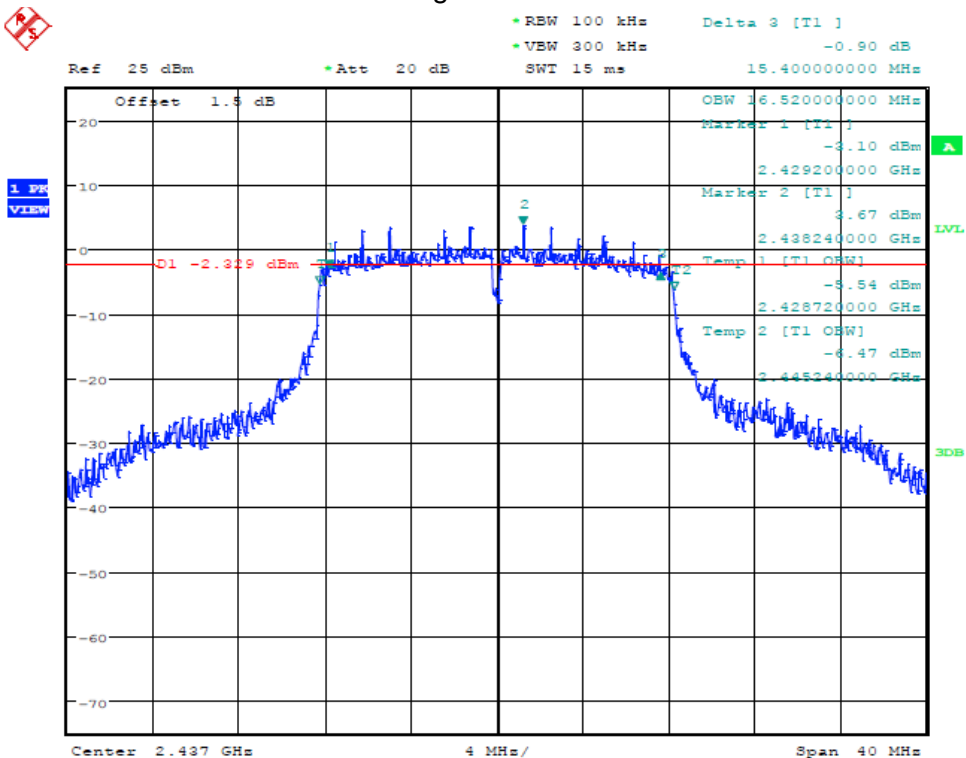
802.11b-CH2462MHZ



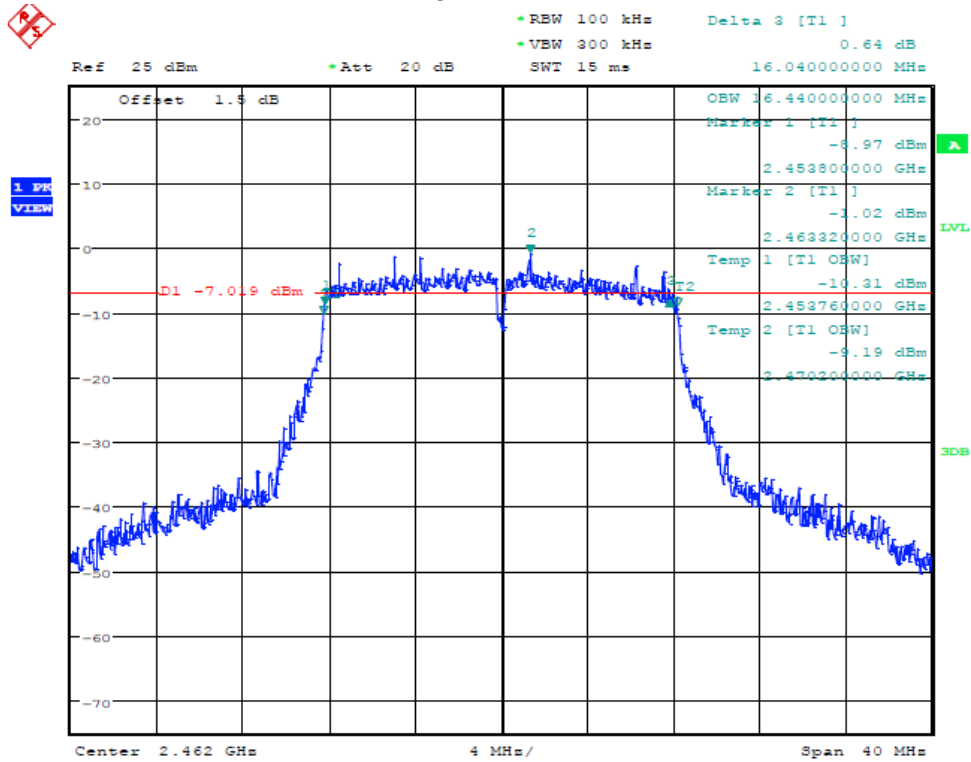
802.11g H2412MHZ



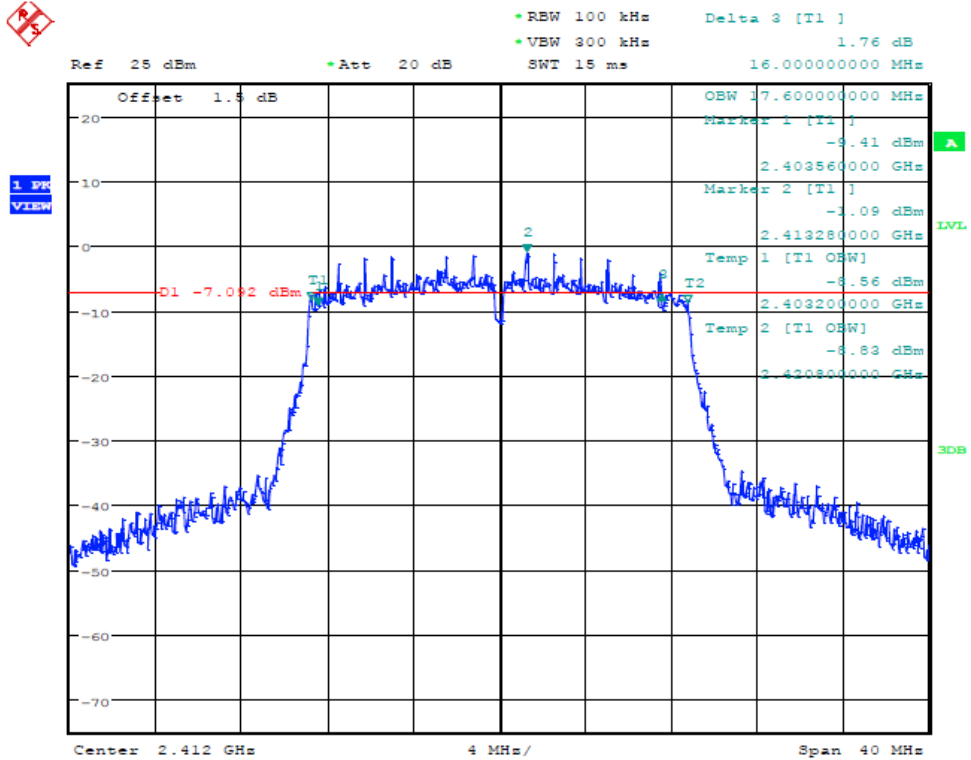
802.11g CH2437MHZ



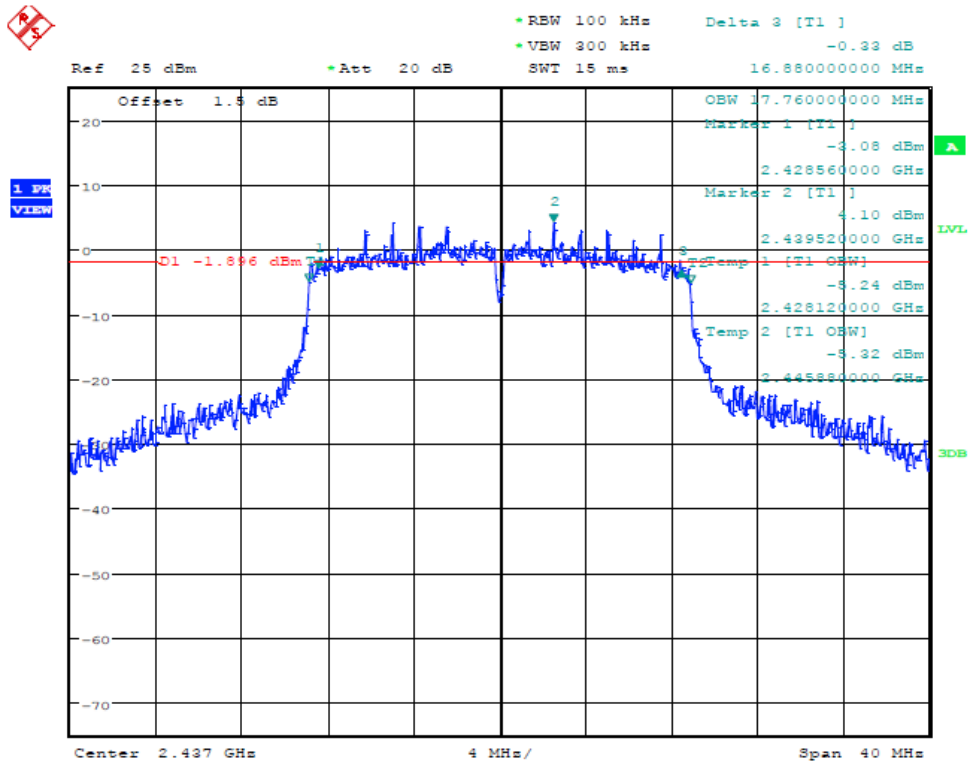
802.11g CH2462MHZ



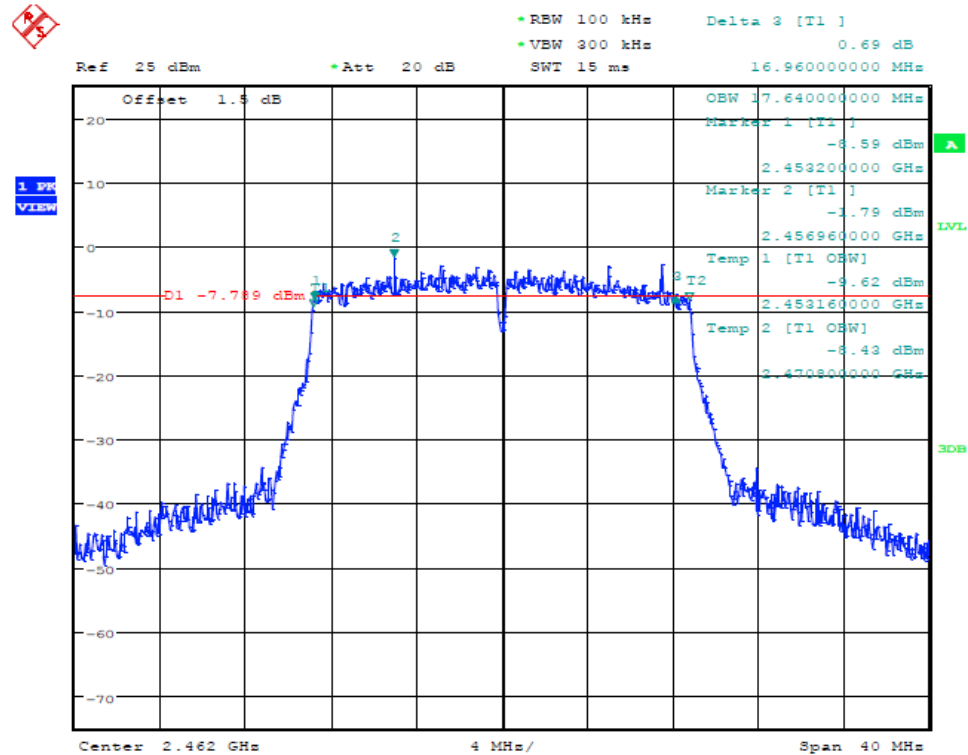
802.11n 20-2412MHz



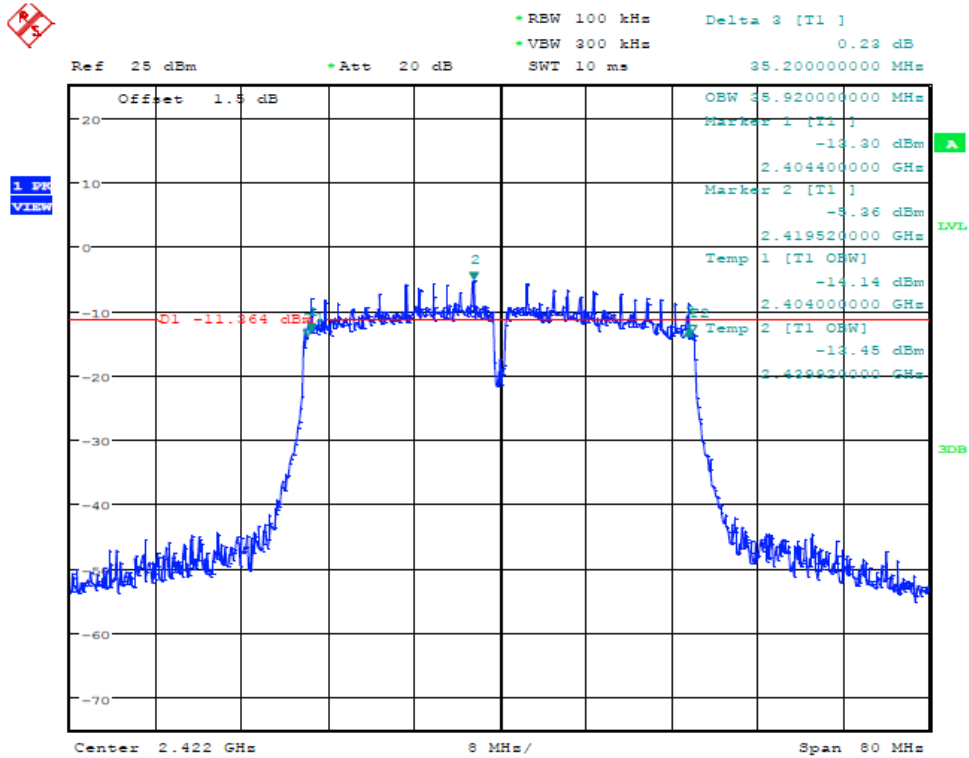
802.11n 20-2437MHz



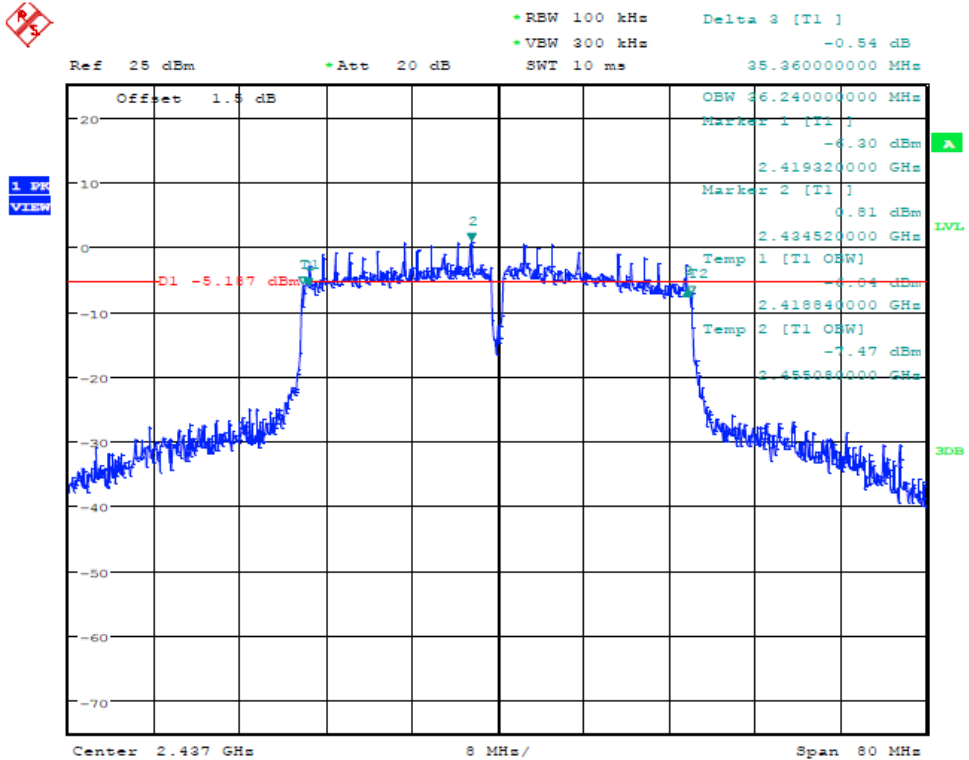
802.11n 20-2462MHz



802.11n 40-2422MHz



802.11n 40-2437MHz





4 CONDUCTED OUTPUT POWER

4.1 limit

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.2 test procedure

- Connect each EUT's antenna output to power sensor by RF cable and attenuator

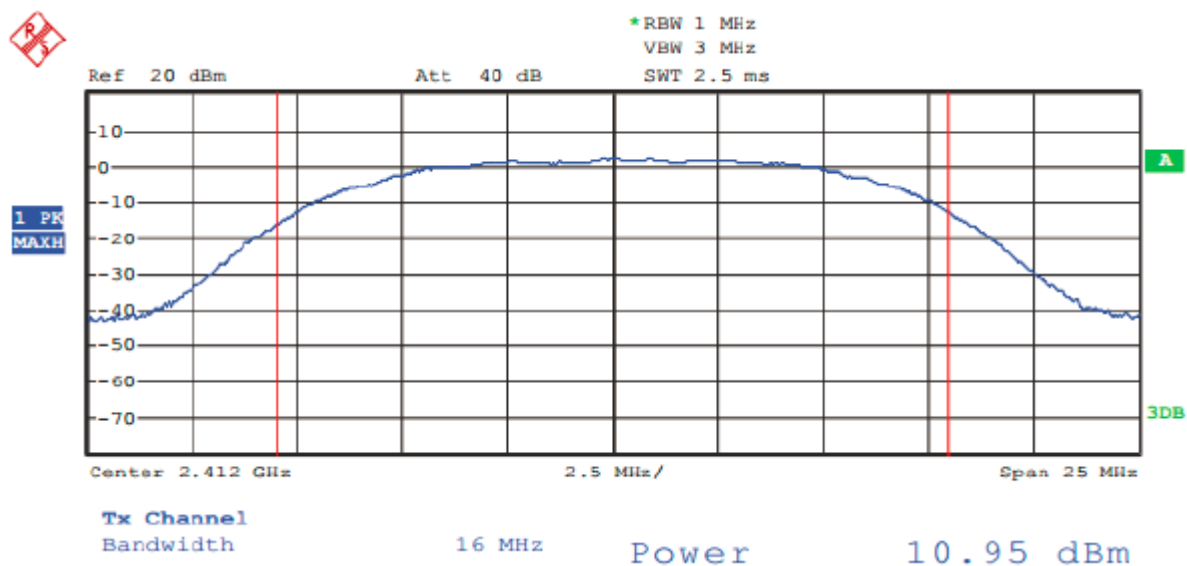
4.3 TEST SETUP



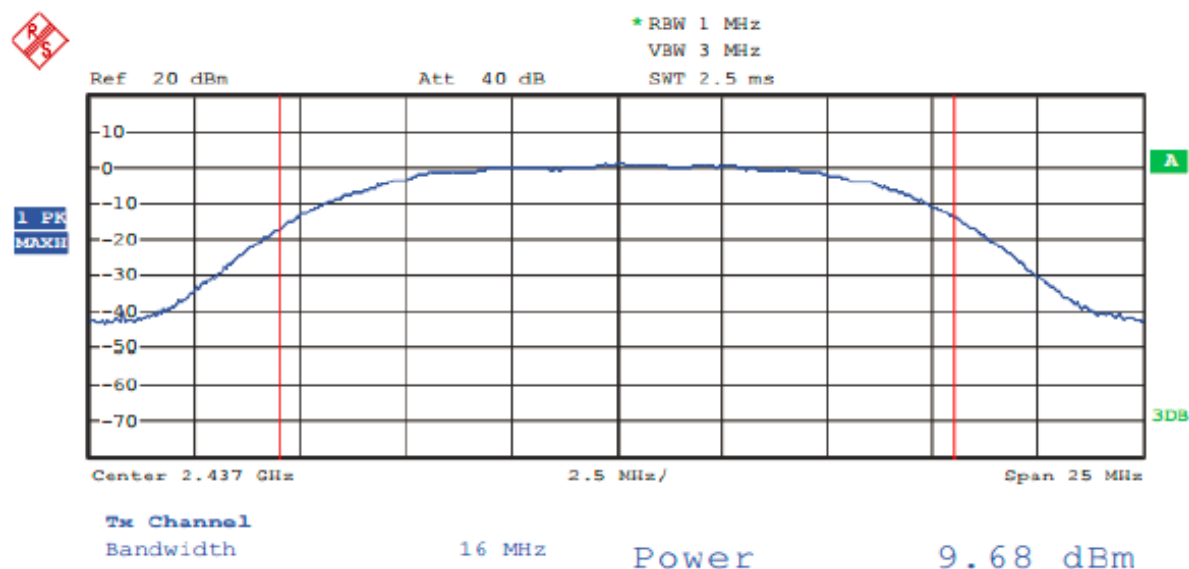
4.5 test results

TestMode	Channel (MHz)	Result (dBm)	Limit (dBm)	Verdict
802.11b	2412MHz	10.95	30	Pass
802.11b	2437MHz	9.68	30	Pass
802.11b	2462MHz	10.58	30	Pass
802.11g	2412MHz	10.10	30	Pass
802.11g	2437MHz	9.00	30	Pass
802.11g	2462MHz	10.01	30	Pass
802.11n 20	2412MHz	9.67	30	Pass
802.11n 20	2437MHz	8.65	30	Pass
802.11n 20	2462MHz	9.63	30	Pass
802.11n 40	2422MHz	1.61	30	Pass
802.11n 40	2437MHz	2.12	30	Pass
802.11n 40	2452MHz	0.94	30	Pass

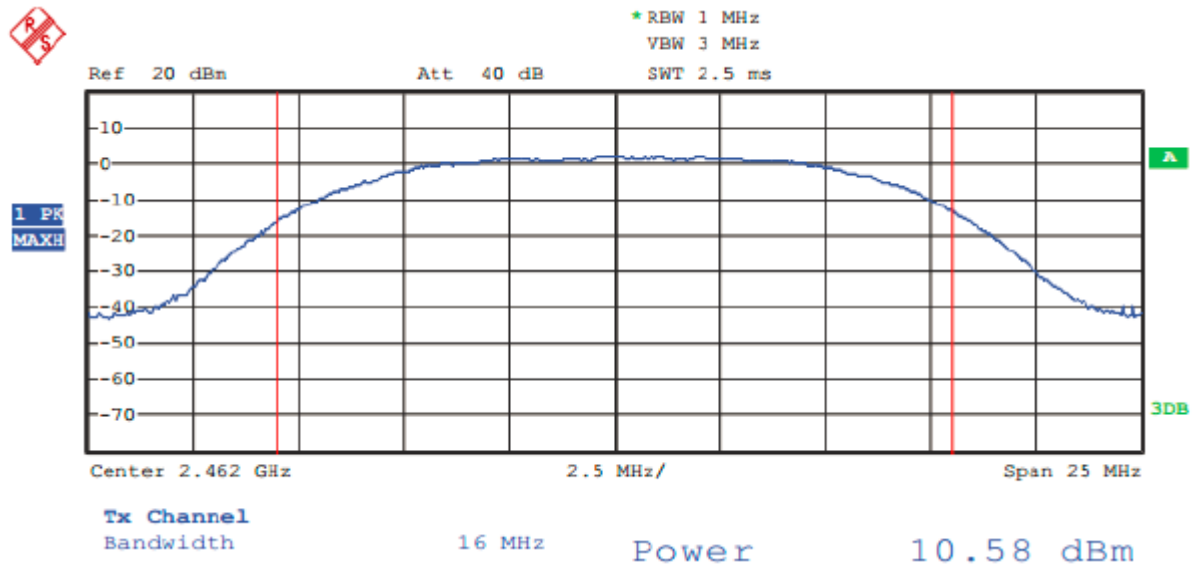
802.11B- 2412MHZ



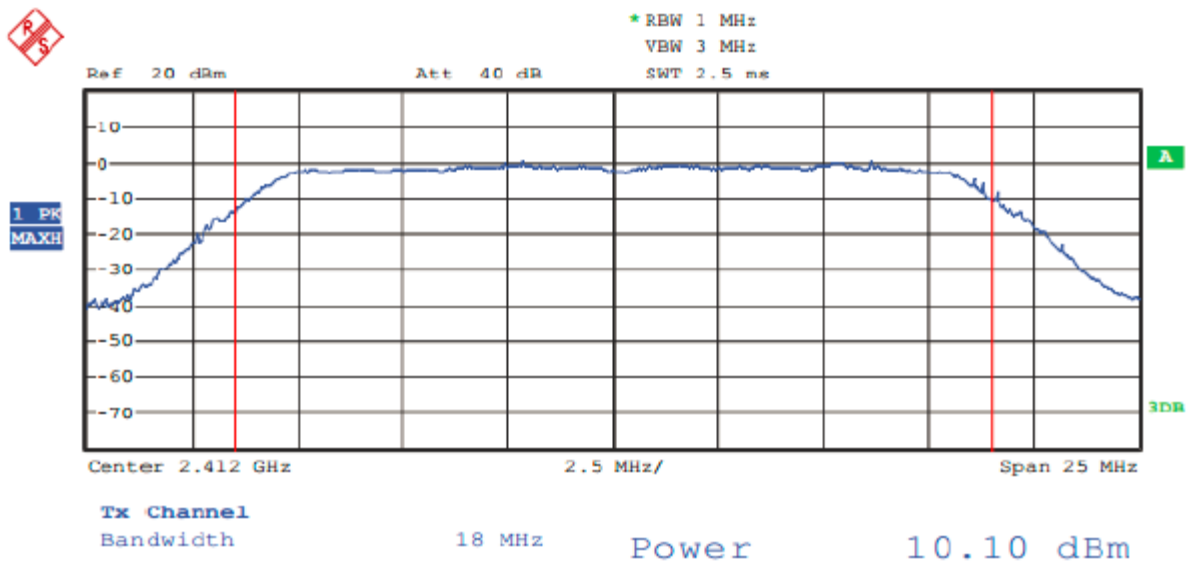
802.11B- 2437MHZ



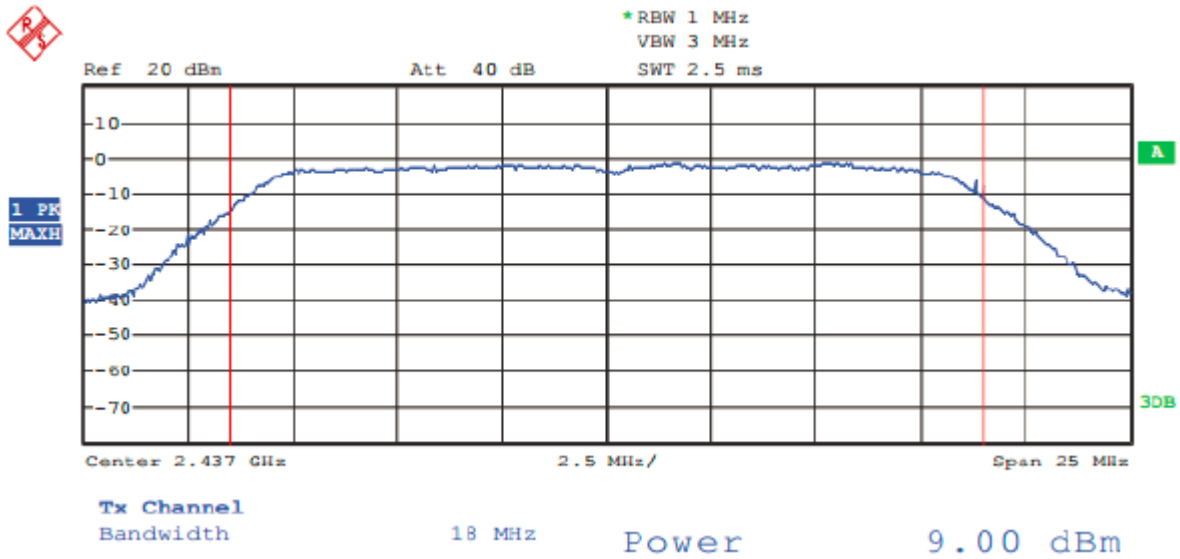
802.11B- 2462MHZ



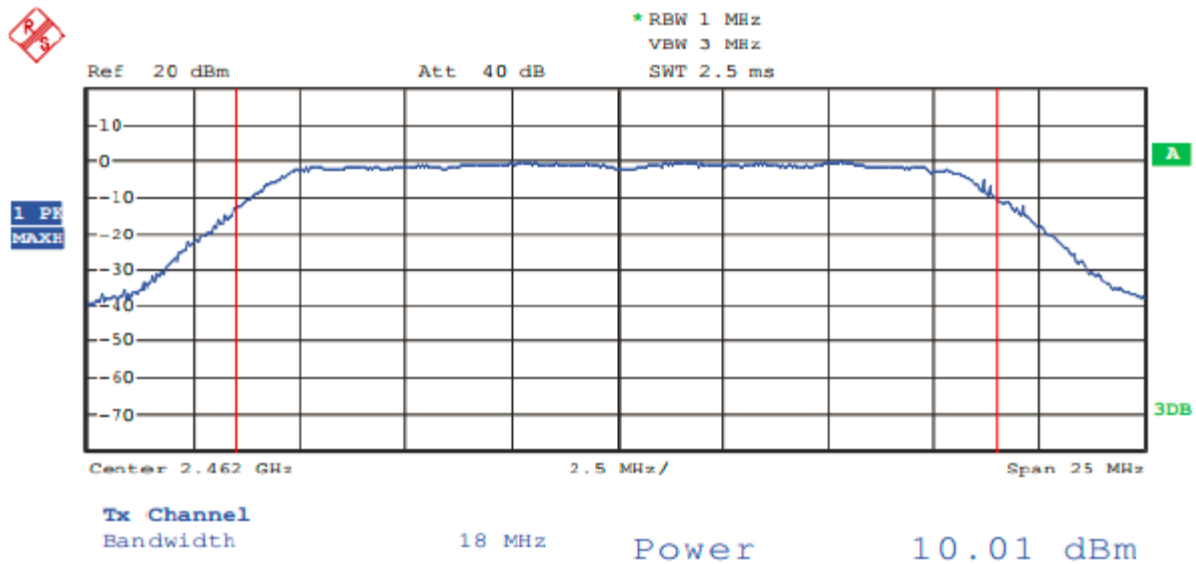
802.11G-2412MHZ



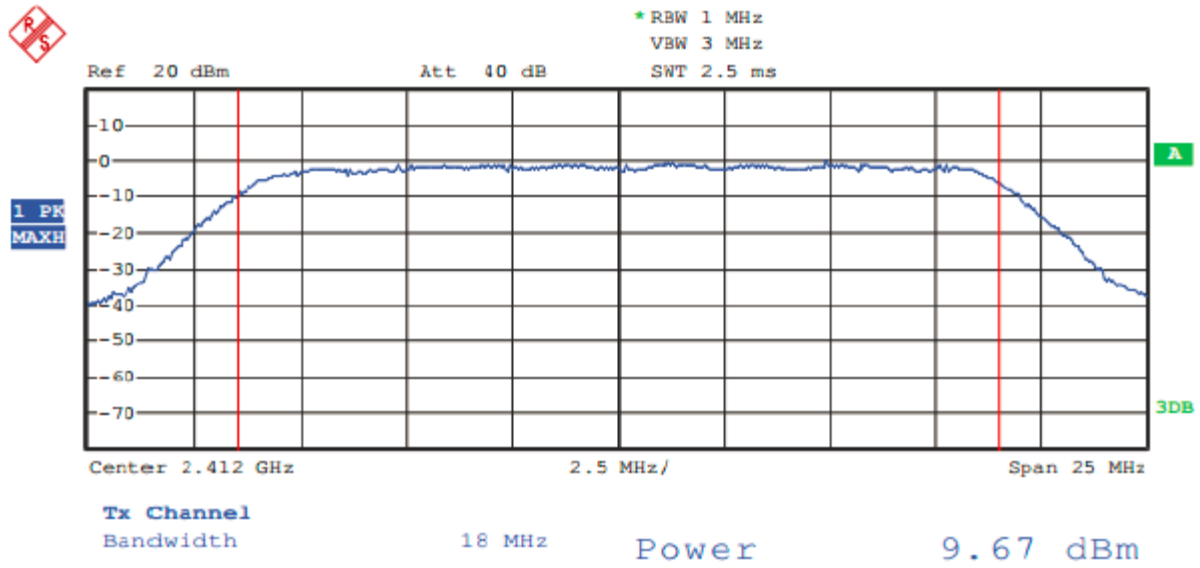
802.11G-2437MHZ



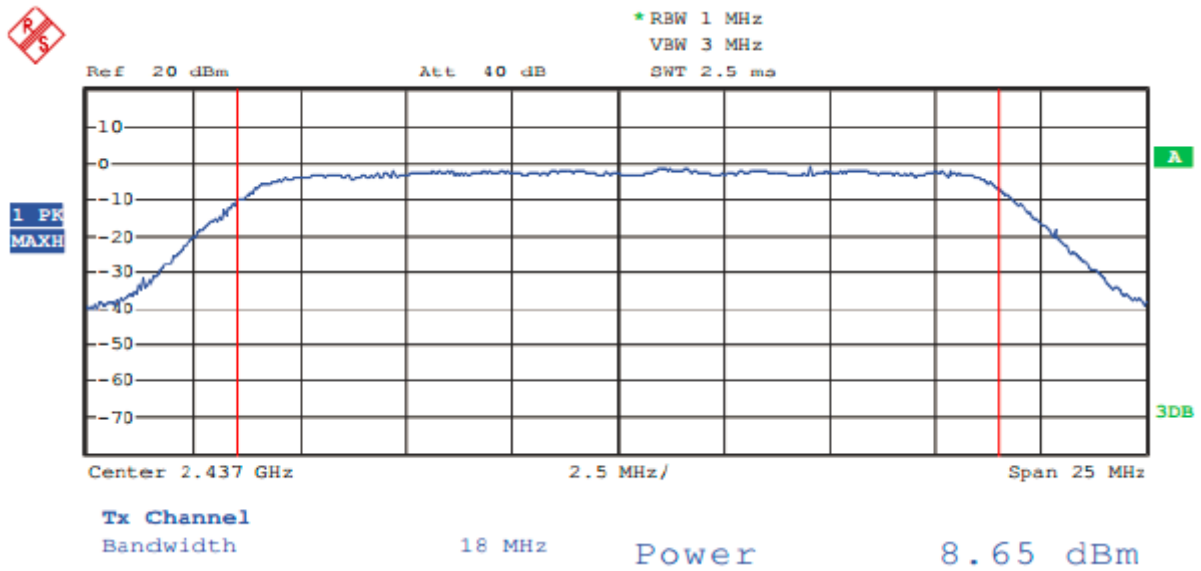
802.11G-2462MHZ



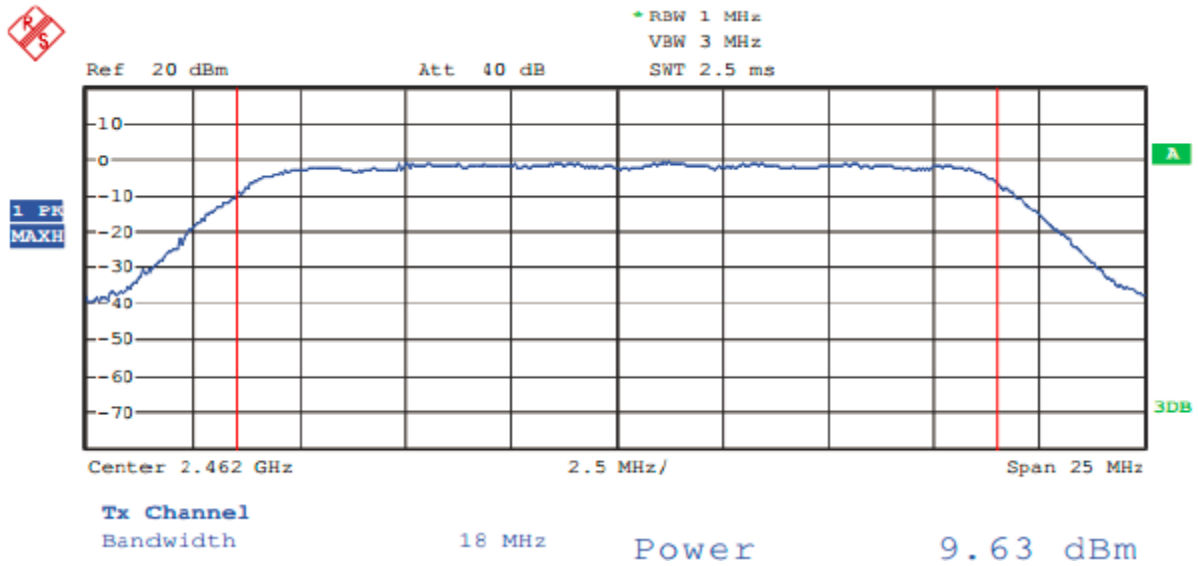
802.11N 20-2412MHZ



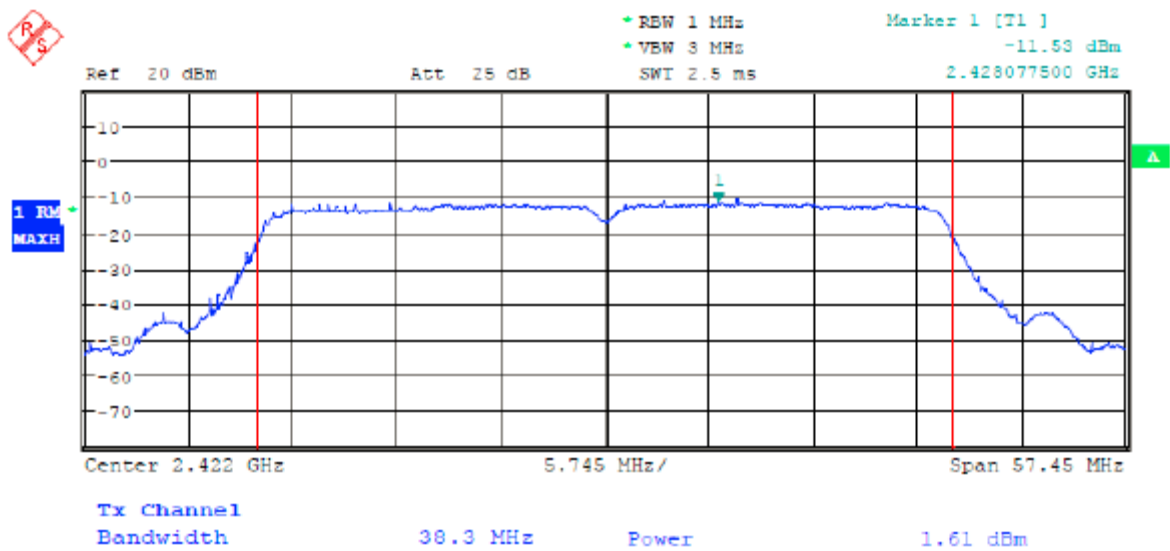
802.11N 20-2437MHZ



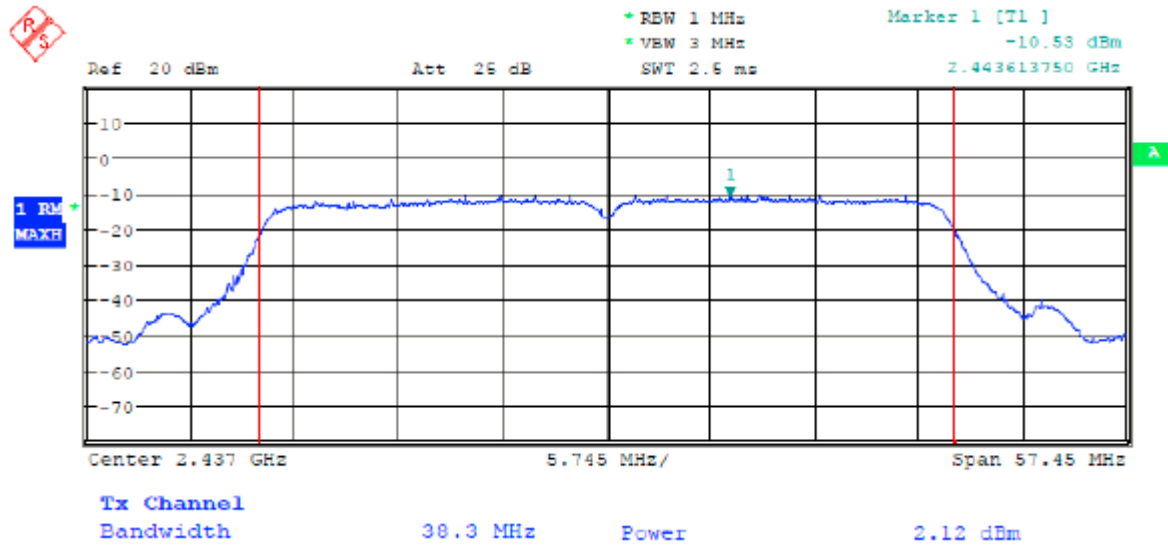
802.11N 20-2462MHZ



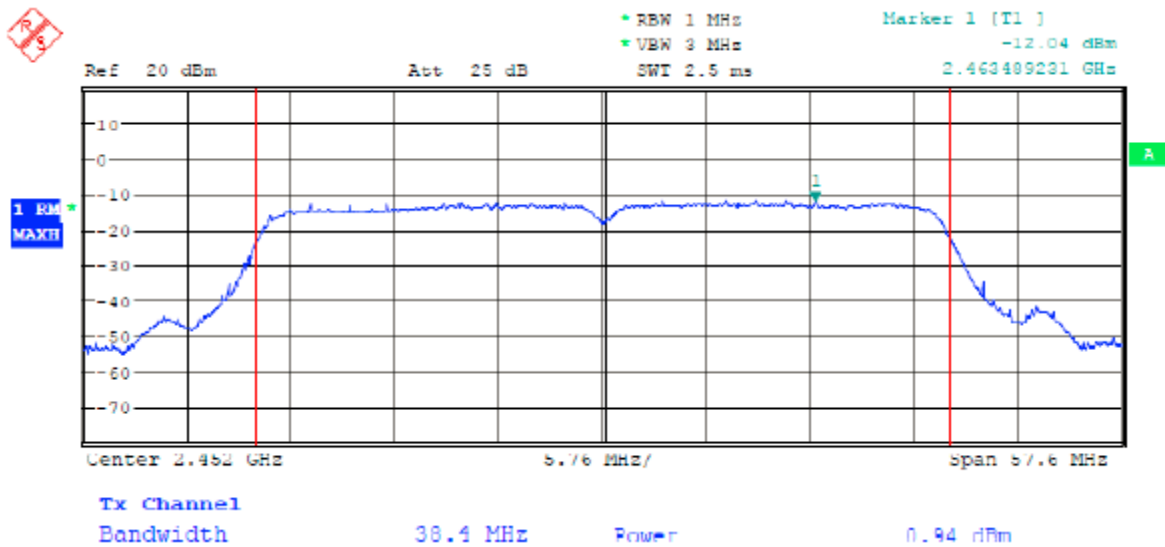
802.11N 40-2422MHZ



802.11N 40-2437MHZ



802.11N 40-2452MHZ



5. POWER SPECTRAL DENSITY

5.1 LIMIT

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

5.2 TEST PROCEDURE

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

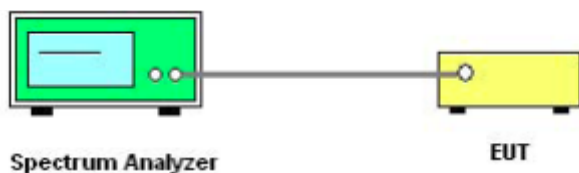
(2) Set the spectrum analyzer as follows:

Center frequency	DTS Channel center frequency
RBW:	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW:	$\geq 3\text{RBW}$
Span	1.5 times the DTS bandwidth
Detector Mode:	RMS
Sweep time:	auto
Trace mode	Max hold

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude level within the RBW

(4) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 TEST SETUP

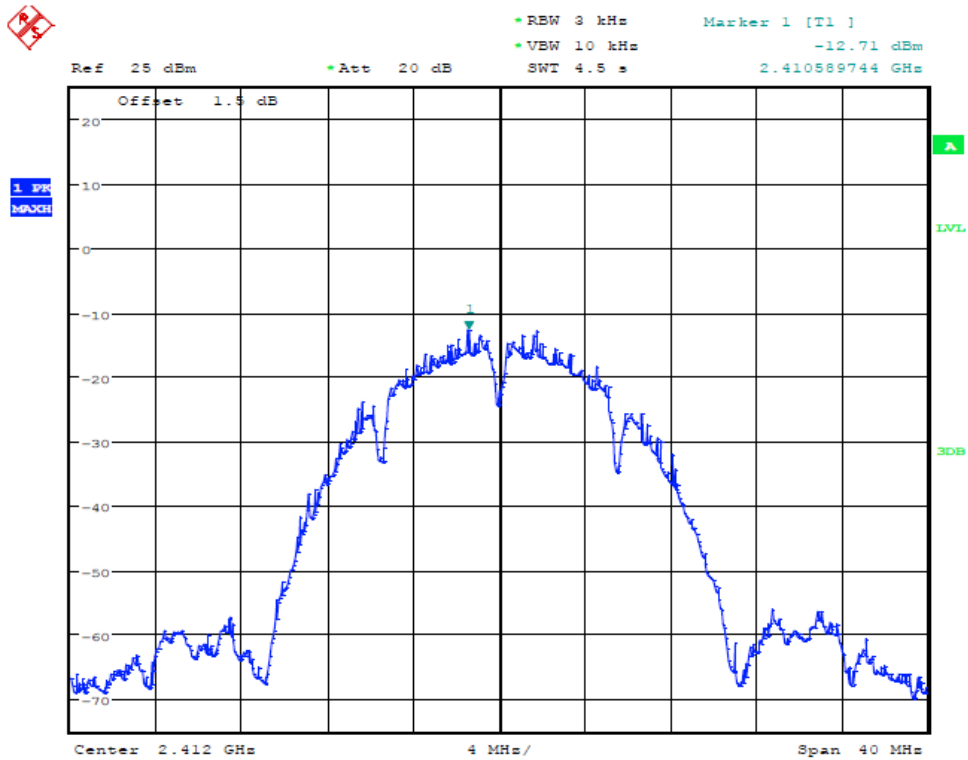


5.5 TEST RESULTS

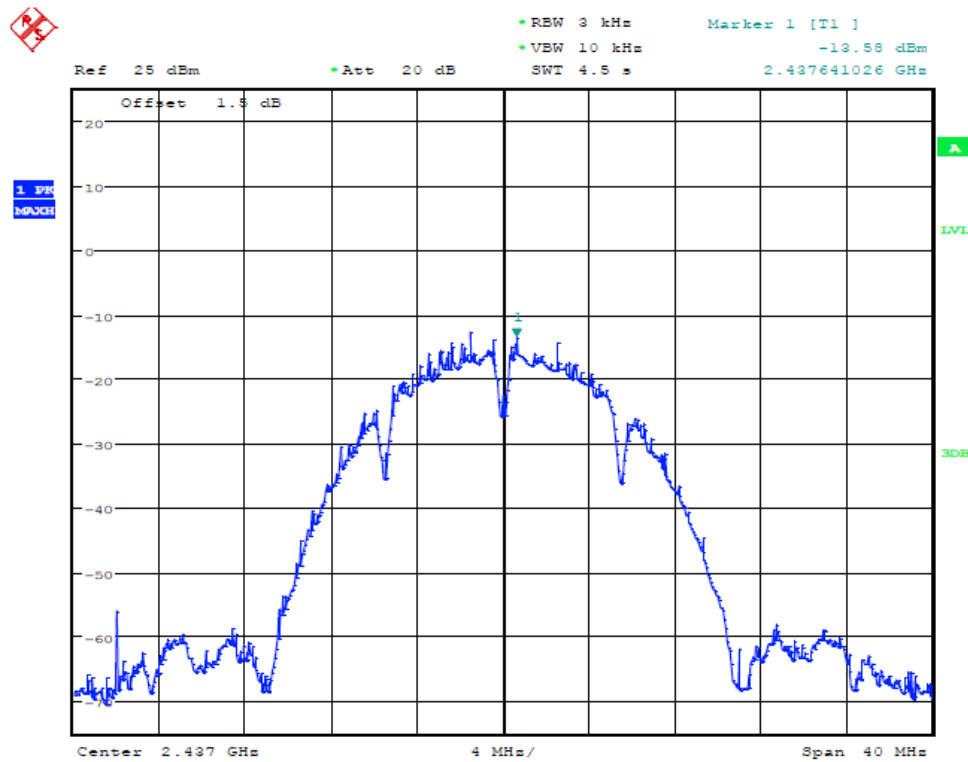
TestMode	Channel (MHz)	Result (dBm/3KHz)	Limit (dBm/3KHz)	Verdict
802.11b	2412MHz	-12.71	8	Pass
802.11b	2437MHz	-13.58	8	Pass
802.11b	2462MHz	-13.15	8	Pass
802.11g	2412MHz	-16.44	8	Pass
802.11g	2437MHz	-11.69	8	Pass
802.11g	2462MHz	-17.64	8	Pass
802.11n 20	2412MHz	-17.12	8	Pass
802.11n 20	2437MHz	-12.34	8	Pass
802.11n 20	2462MHz	-22.99	8	Pass
802.11n 40	2422MHz	-26.14	8	Pass
802.11n 40	2437MHz	-18.09	8	Pass
802.11n 40	2452MHz	-24.30	8	Pass

5.6 original test data

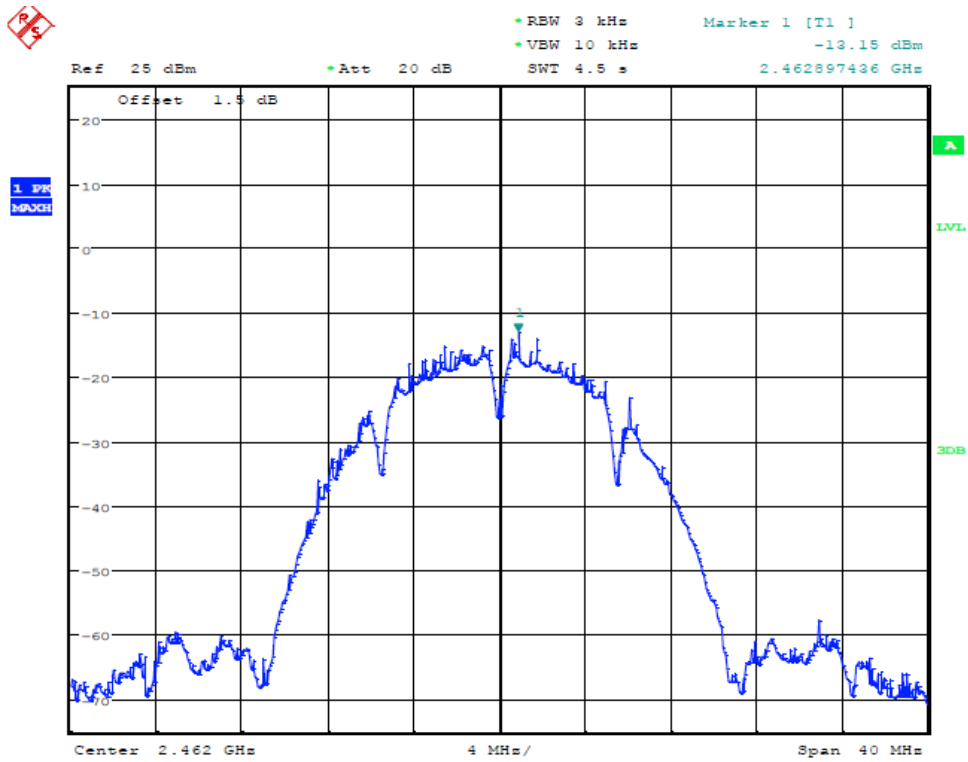
802.11b-2412MHz



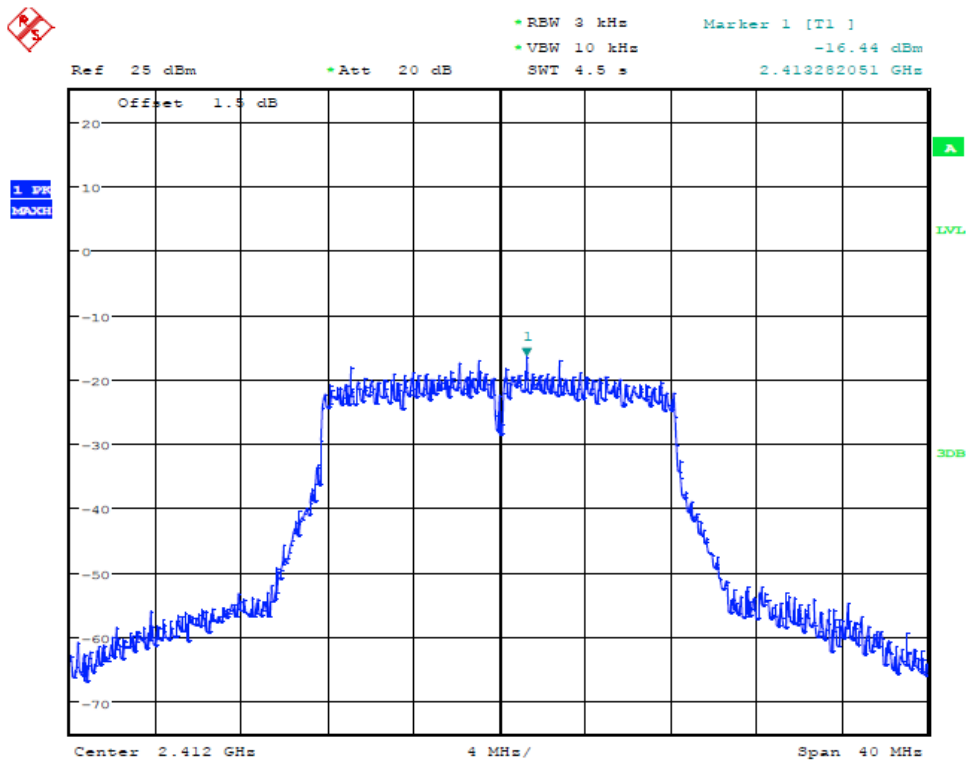
802.11b-2437MHz



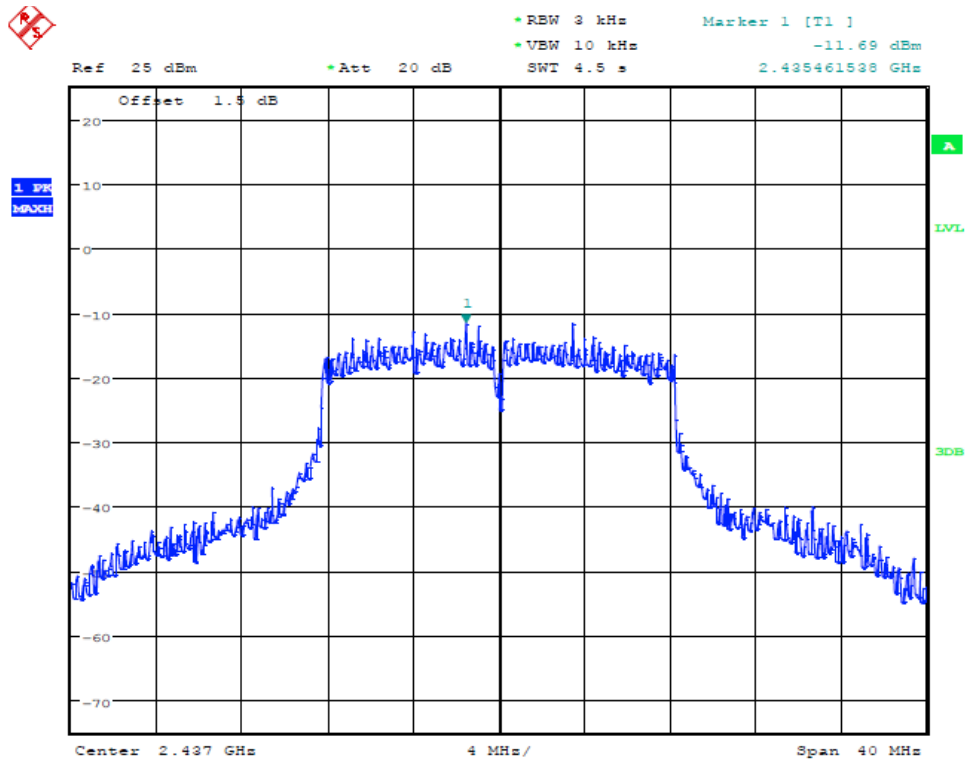
802.11b-2462MHz



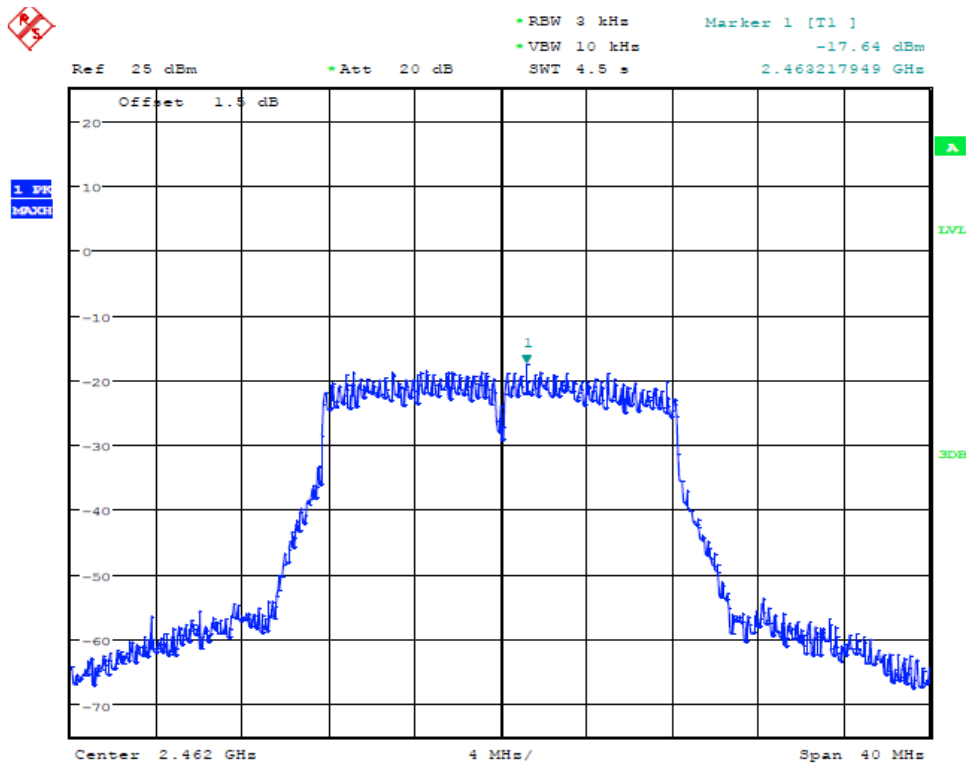
802.11g-2412MHz

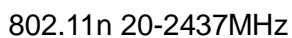


802.11g-2437MHz

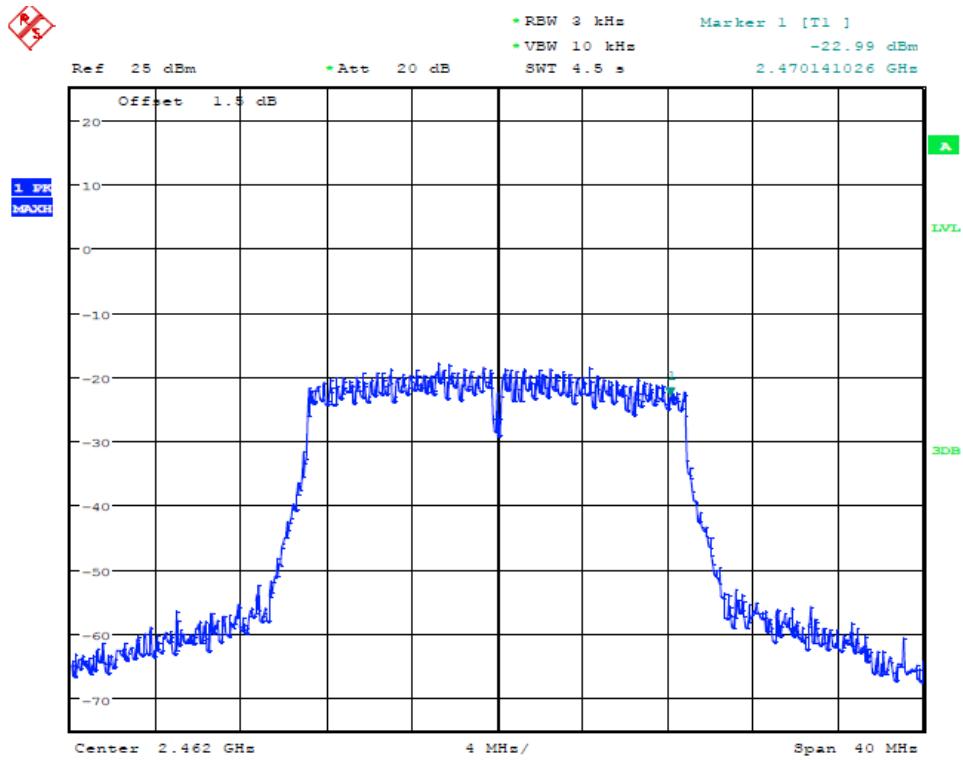


802.11g-2462MHz

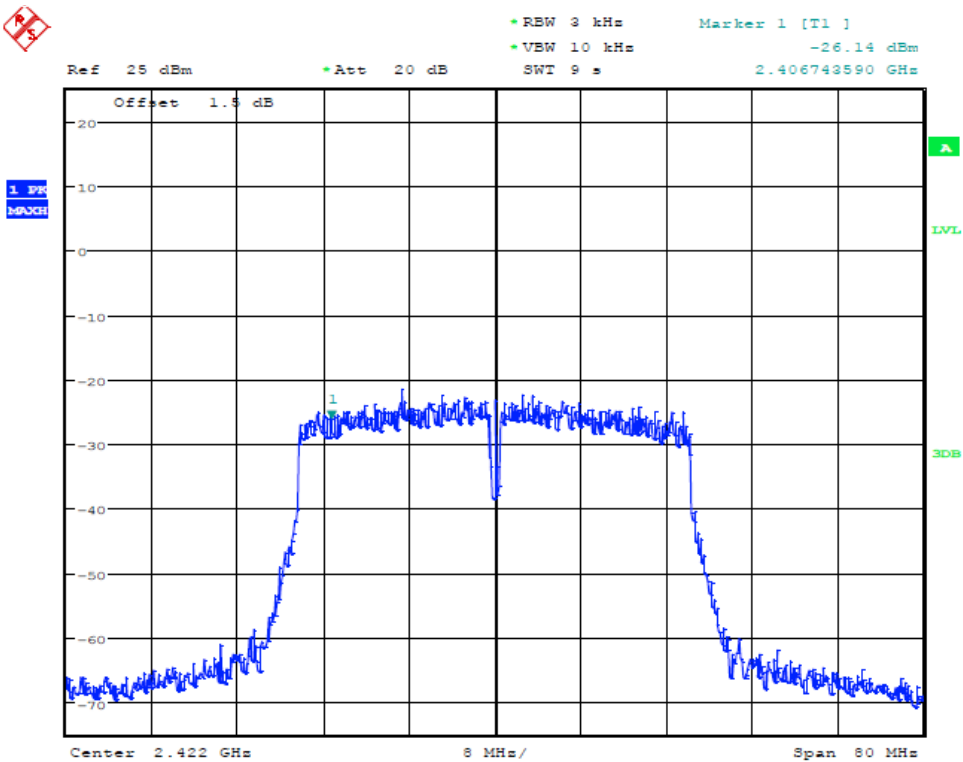




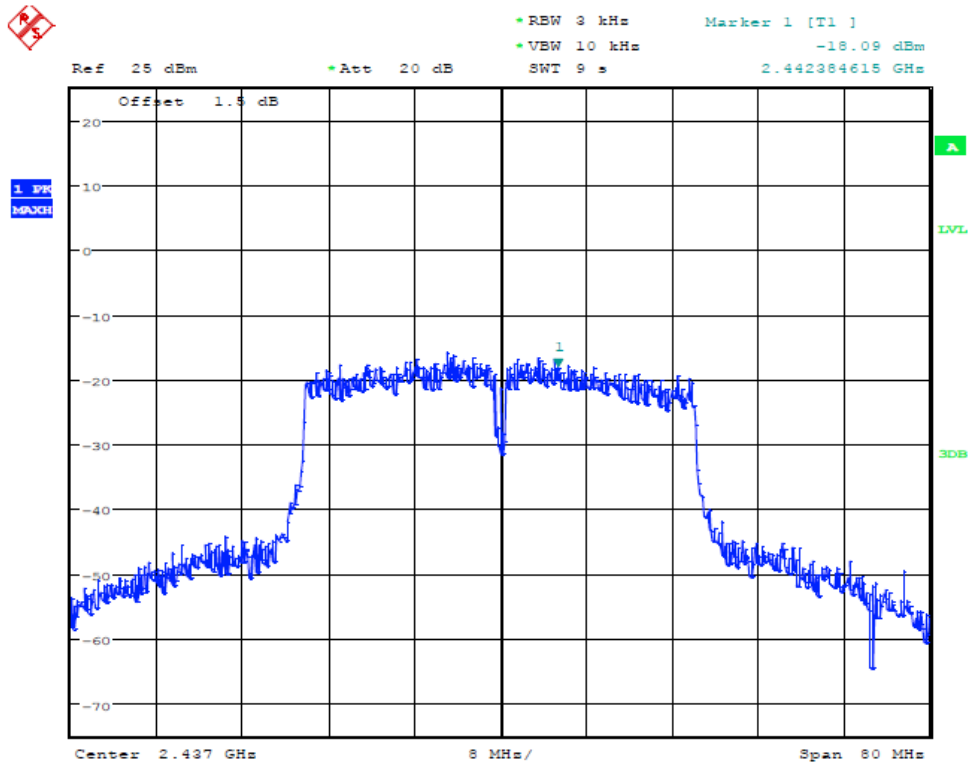
802.11n 20-2462MHz



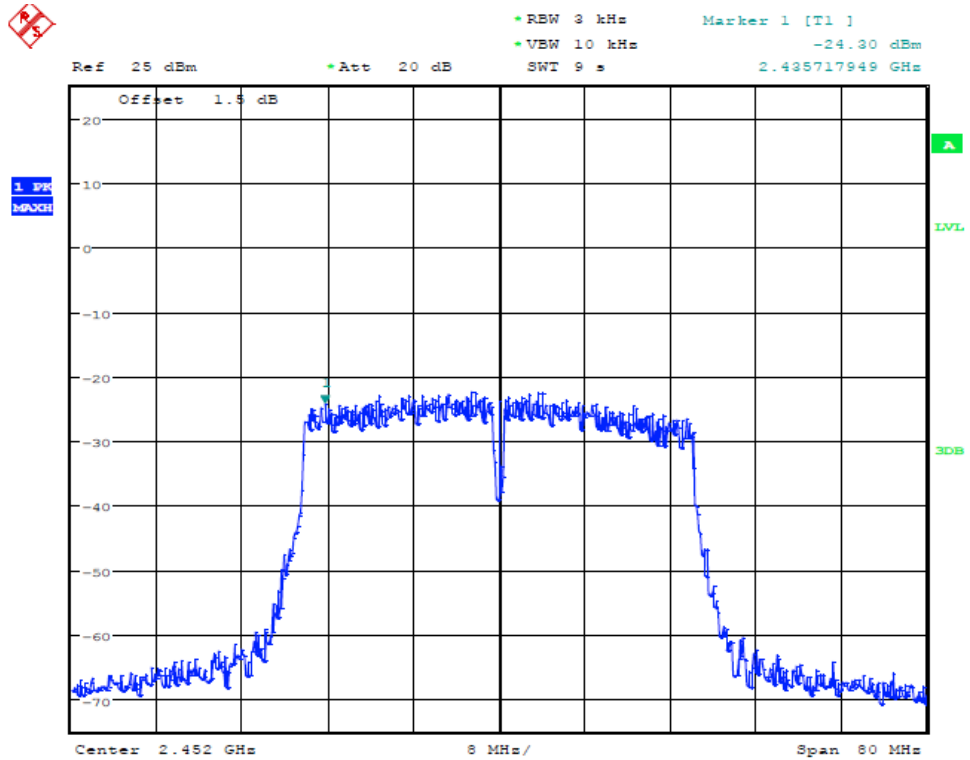
802.11n 40-2422MHz



802.11n 40-2437MHz



802.11n 40-2452MHz



6. Band edge and spurious(conducted)

6.1 LIMIT

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

6.2 TEST PROCEDURE

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Establish a reference level by using the following procedure:

Center frequency	DTS Channel center frequency
RBW:	100kHz
VBW:	300kHz
Span	1.5times the DTS bandwidth
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

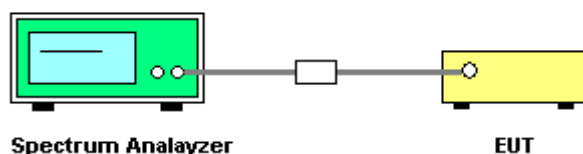
(3) Establish Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.

(4) Set the spectrum analyzer as follows:

RBW:	100kHz
VBW:	300kHz
Span	Encompass frequency range to be measured
Number of measurement points	$\geq \text{span}/\text{RBW}$
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

6.3 TEST SETUP

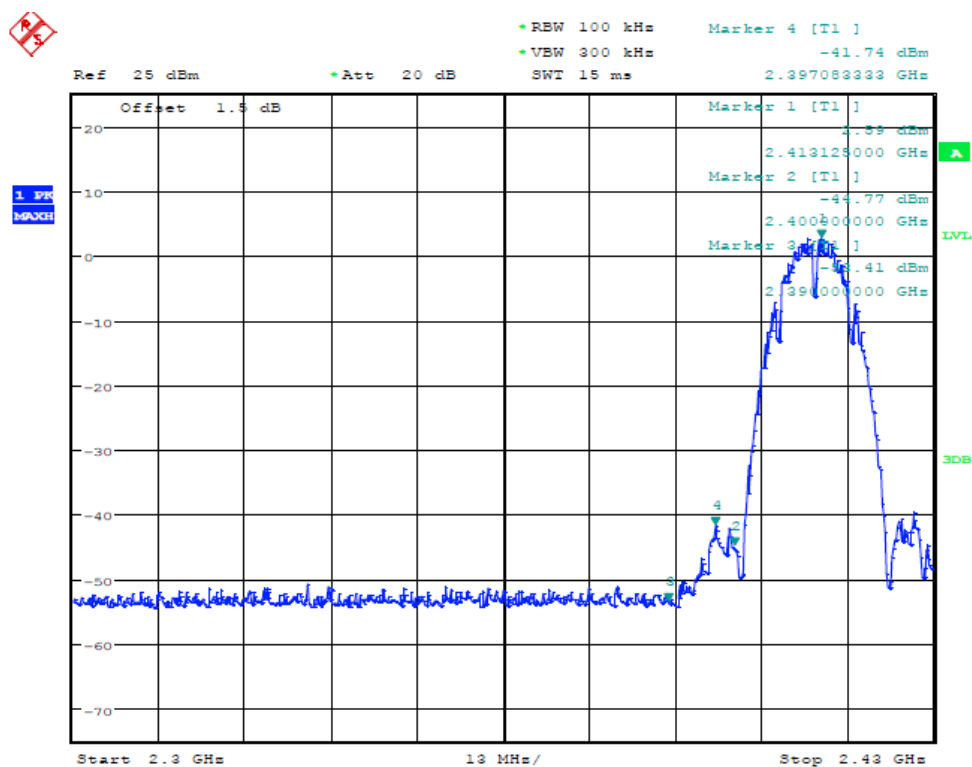


6.5 TEST RESULTS

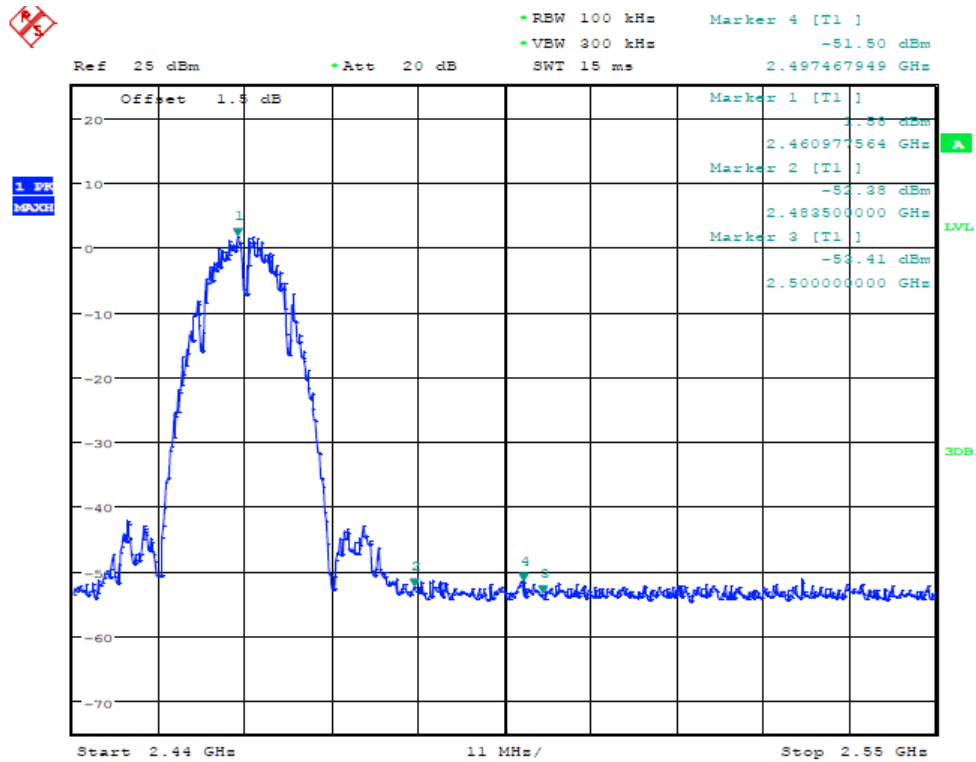
Eut set mode	CH or Frequency	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
802.11b	CH1	44.33	> 30dBc
	CH11	53.08	> 30dBc
802.11g	CH1	35.05	> 30dBc
	CH11	49.15	> 30dBc
802.11n 20	CH1	36.00	> 30dBc
	CH11	48.07	> 30dBc
802.11n 40	CH3	37.03	> 30dBc
	CH9	42.42	> 30dBc

6.5 Original test data

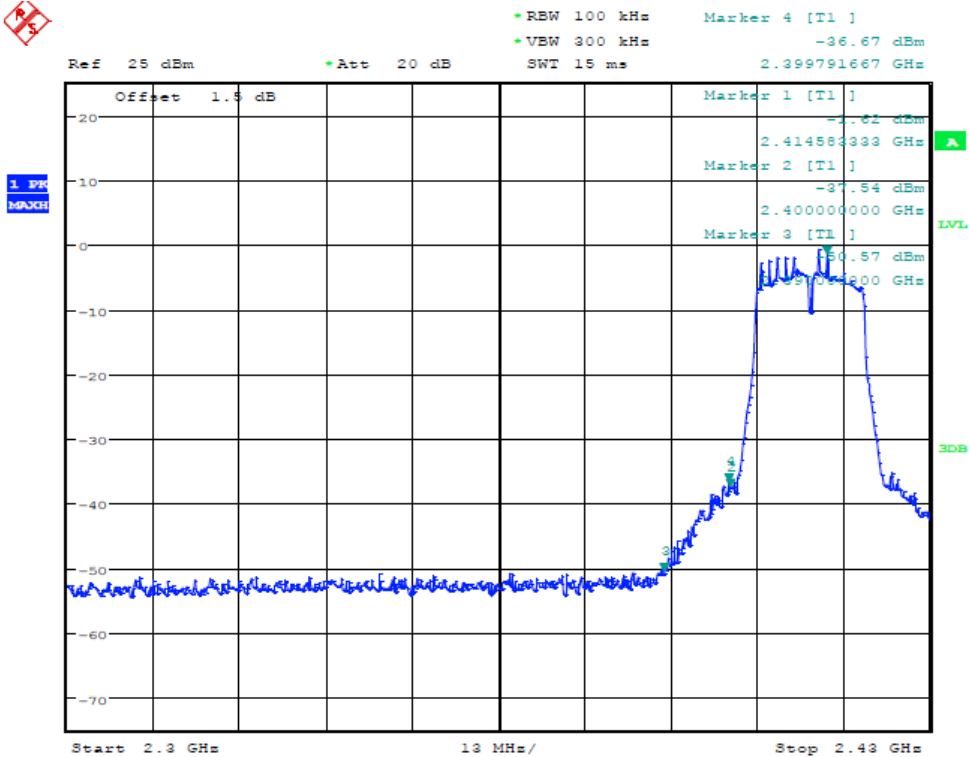
802.11b Low CH



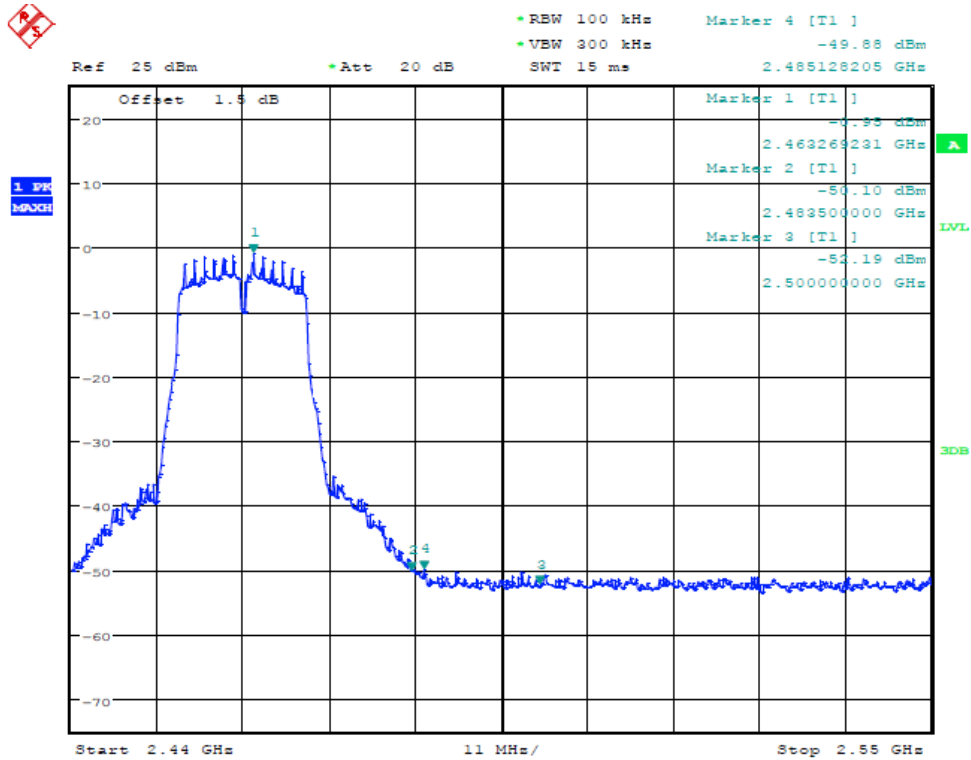
802.11b High CH



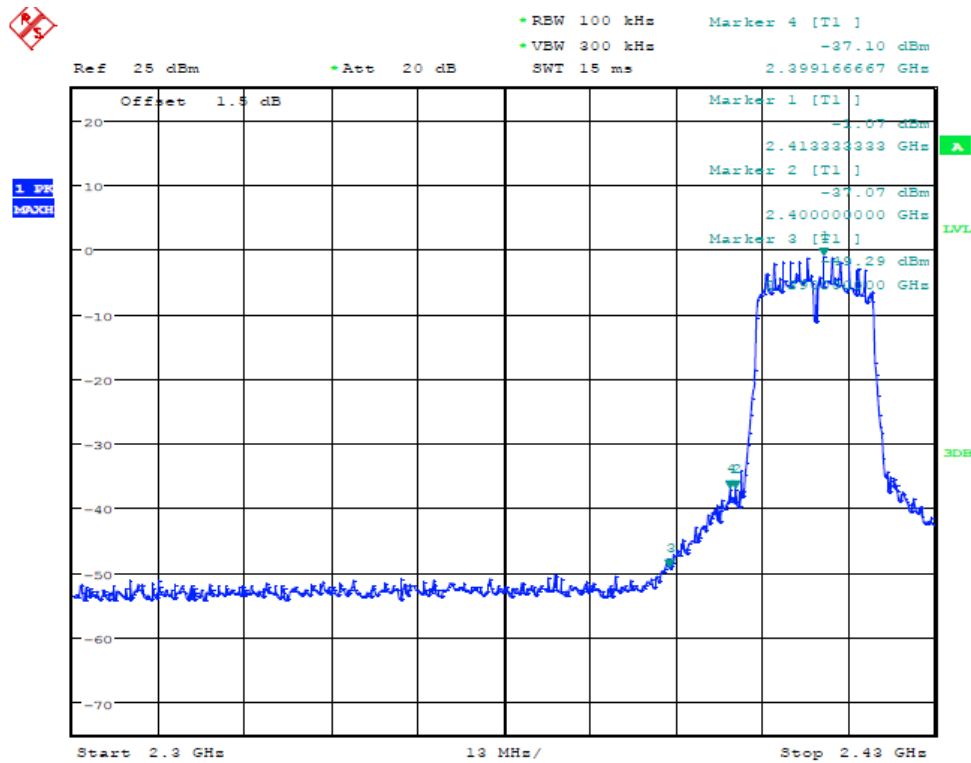
802.11g low CH



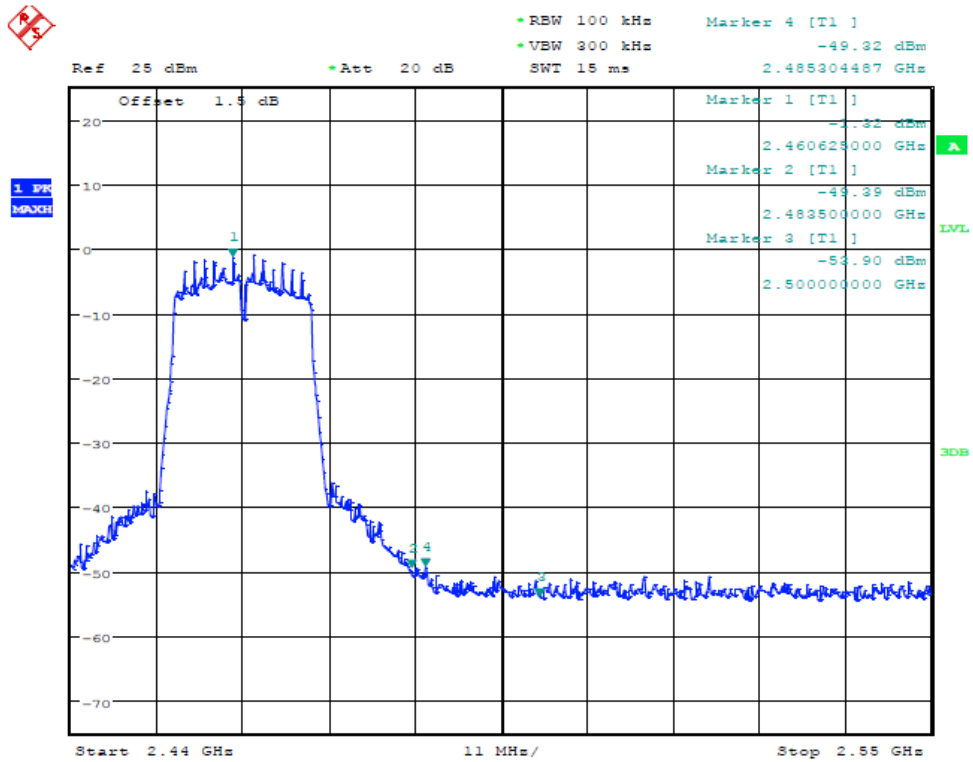
802.11g high CH



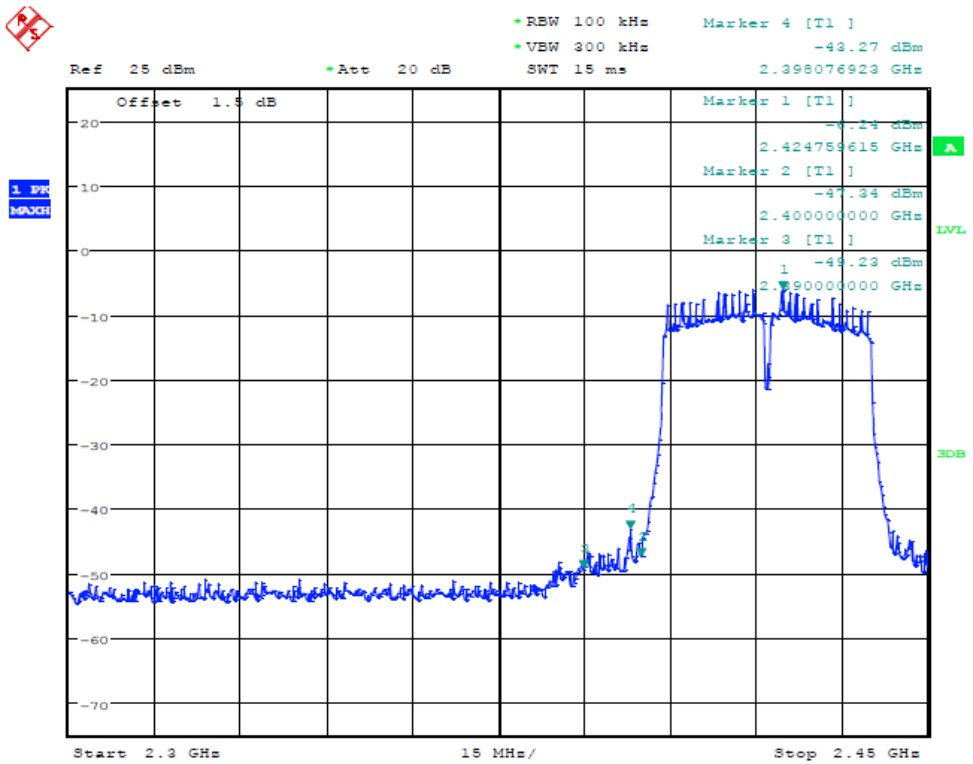
802.11n20 Low CH



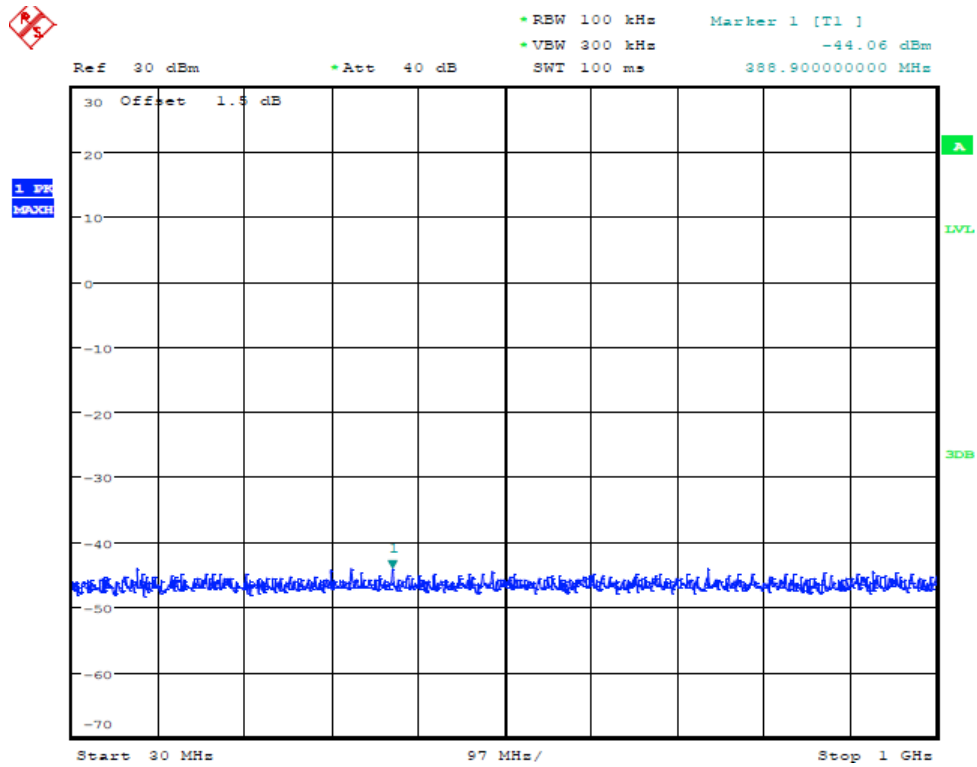
802.11n20 High CH



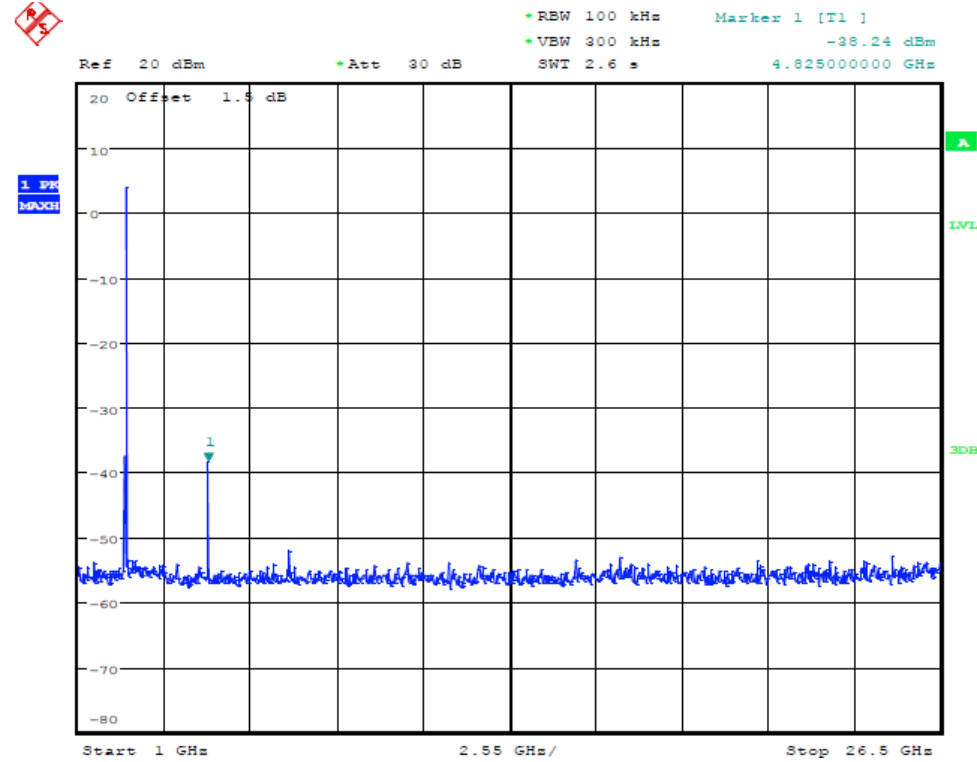
802.11n40 Low CH



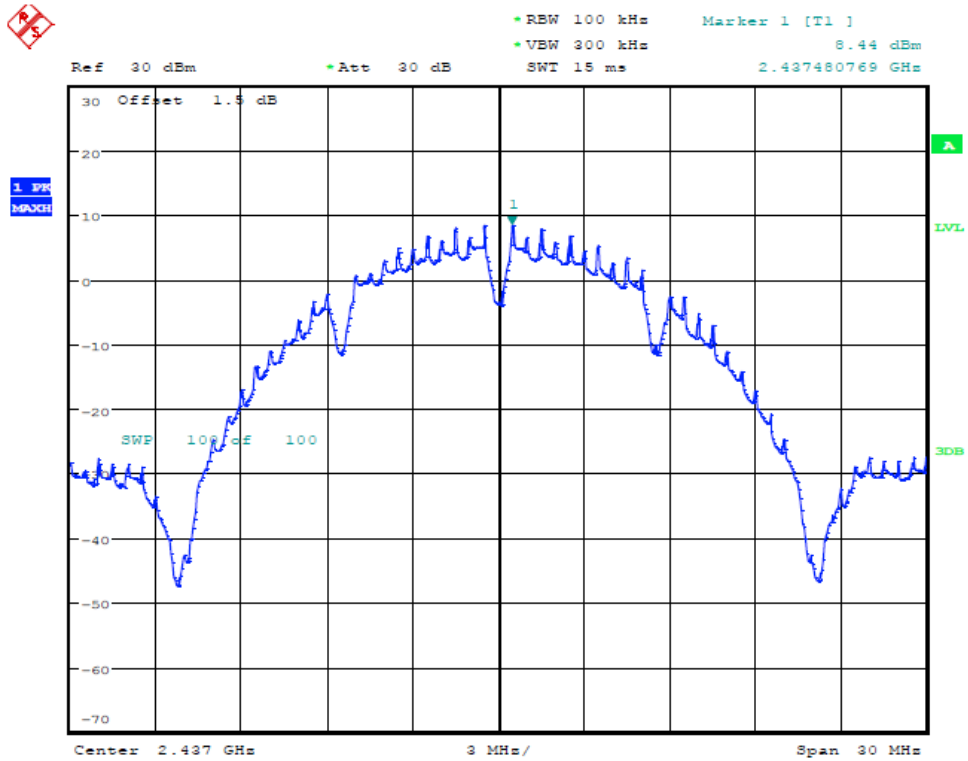
30MHz-1000MHz



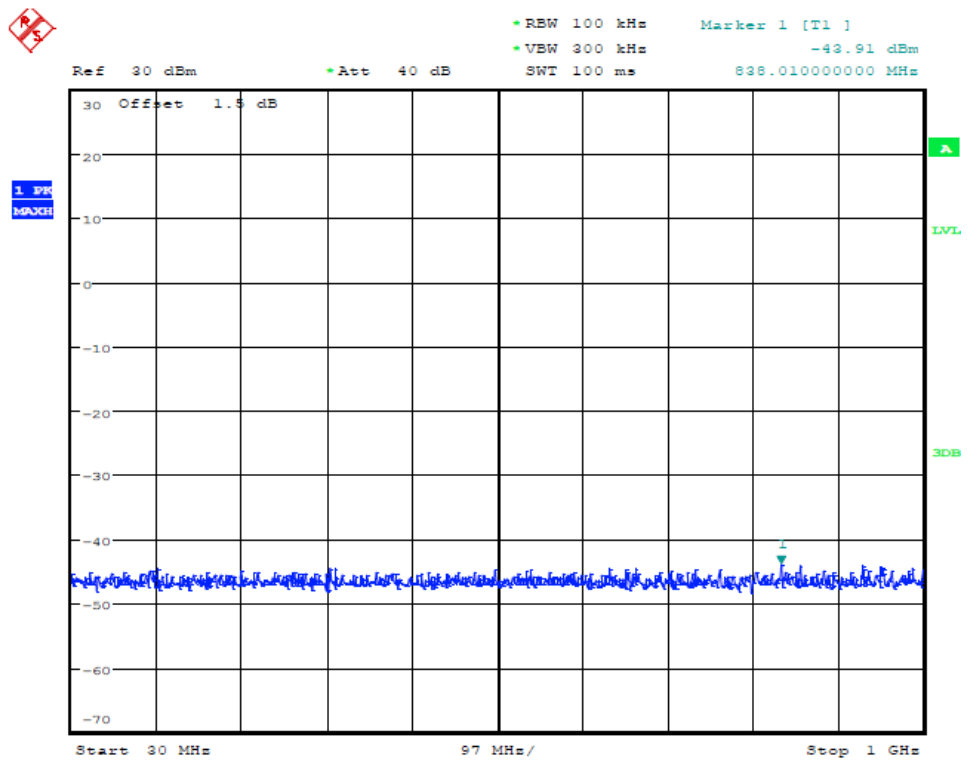
1000MHz-26500MHz



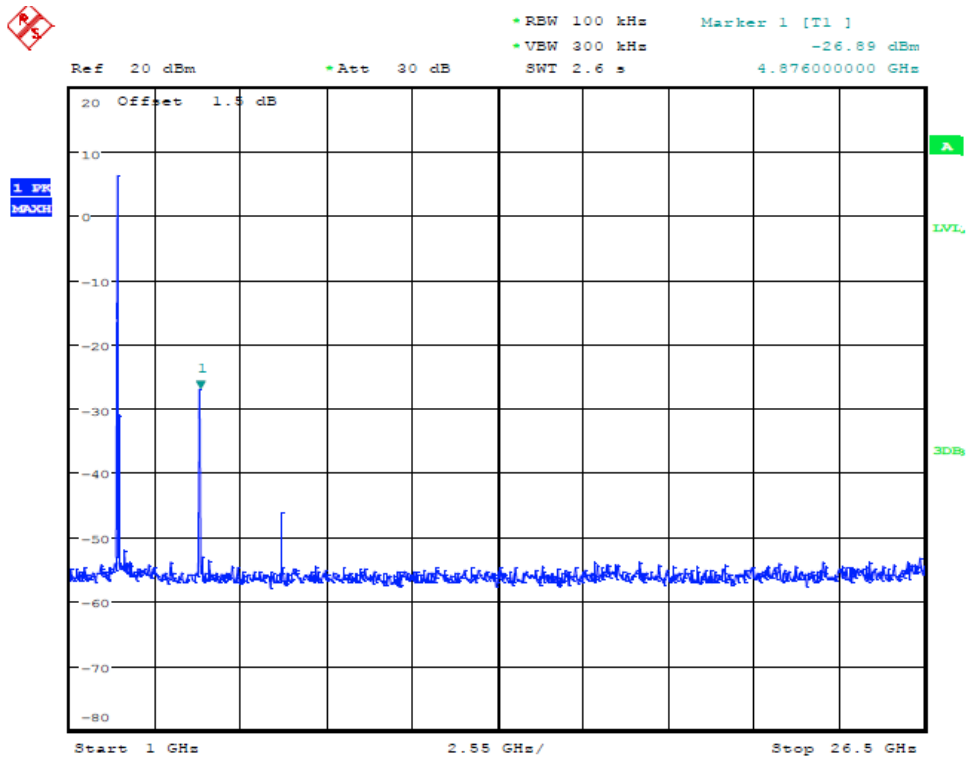
802.11b Middle CH, 2437MHz



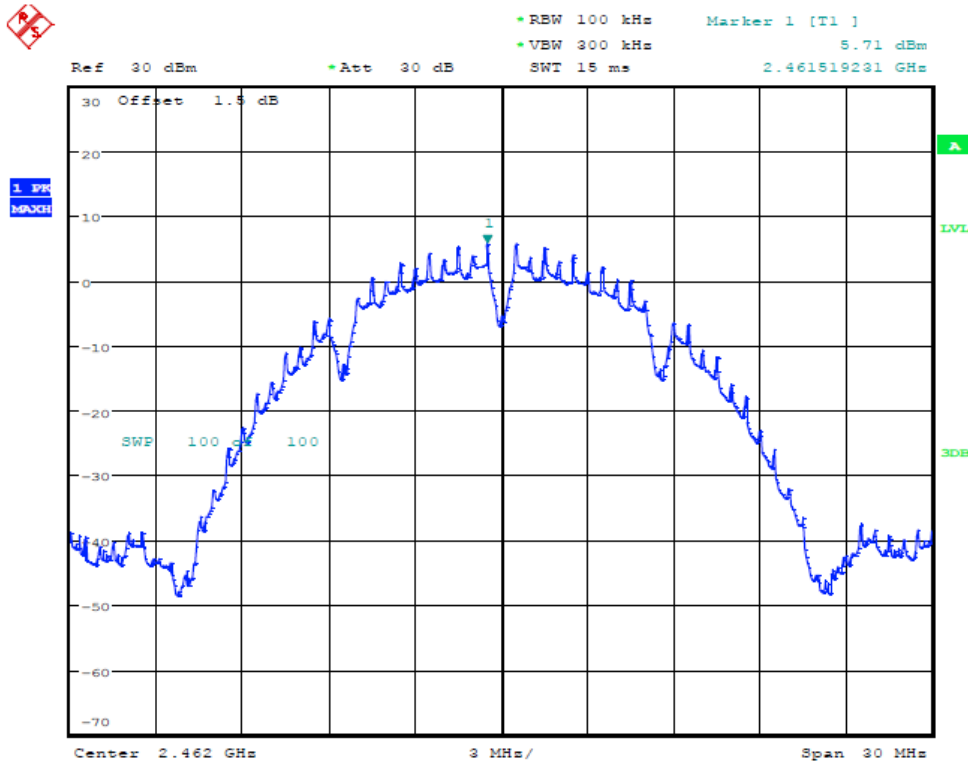
30MHz-1000MHz



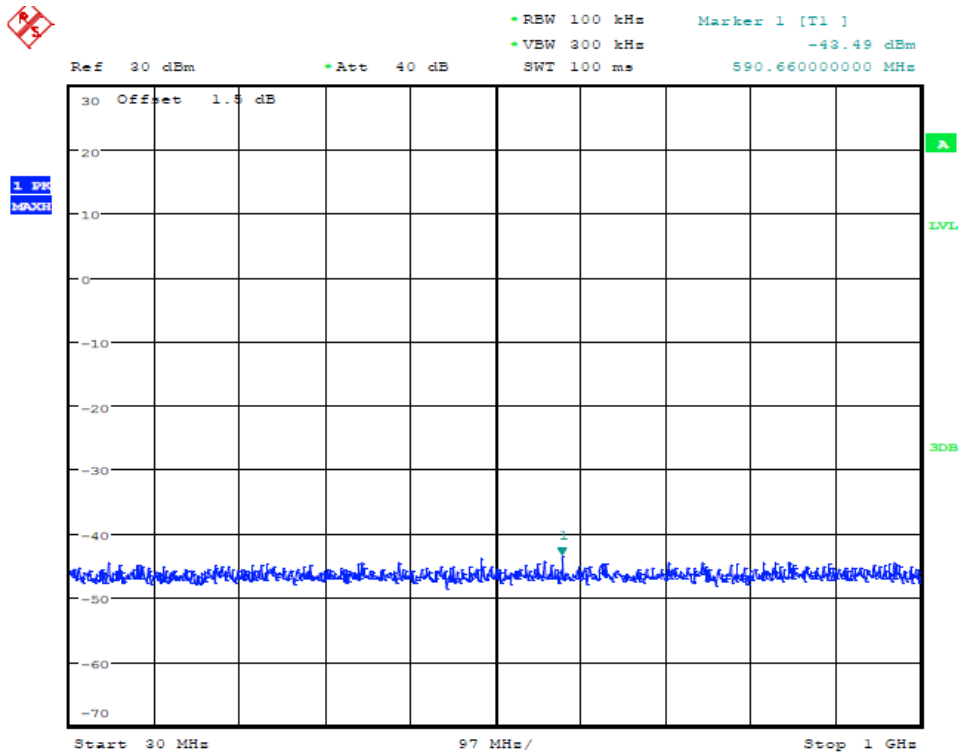
1000MHz-26500MHz



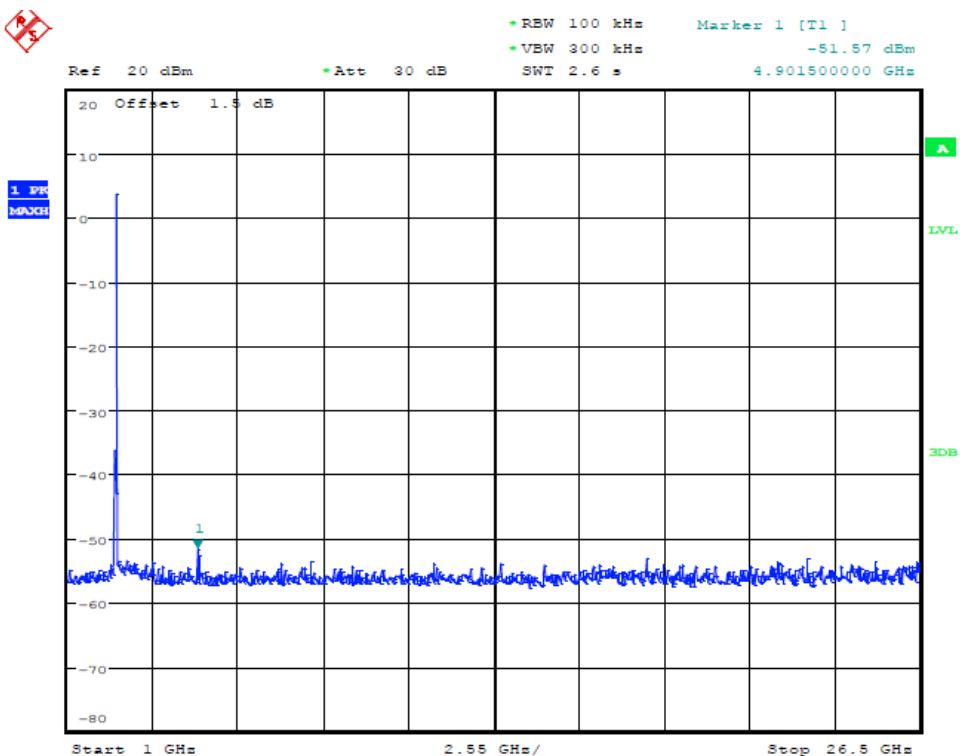
802.11b High CH, 2462MHz



30MHZ-1000MHZ



1000MHZ-26500MHZ



7 RADIATED EMISSION MEASUREMENT

7.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
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	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1GHz-25 GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	PK=1MHz / 1MHz, AV=1 MHz /10 Hz

For Band edge

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2300 to 2403 MHz Upper Band Edge: 2479 to 2500 MHz
RB / VB (emission in restricted band)	PK=1MHz / 1MHz, AV=1 MHz / 10 Hz

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

7.2 TEST PROCEDURE

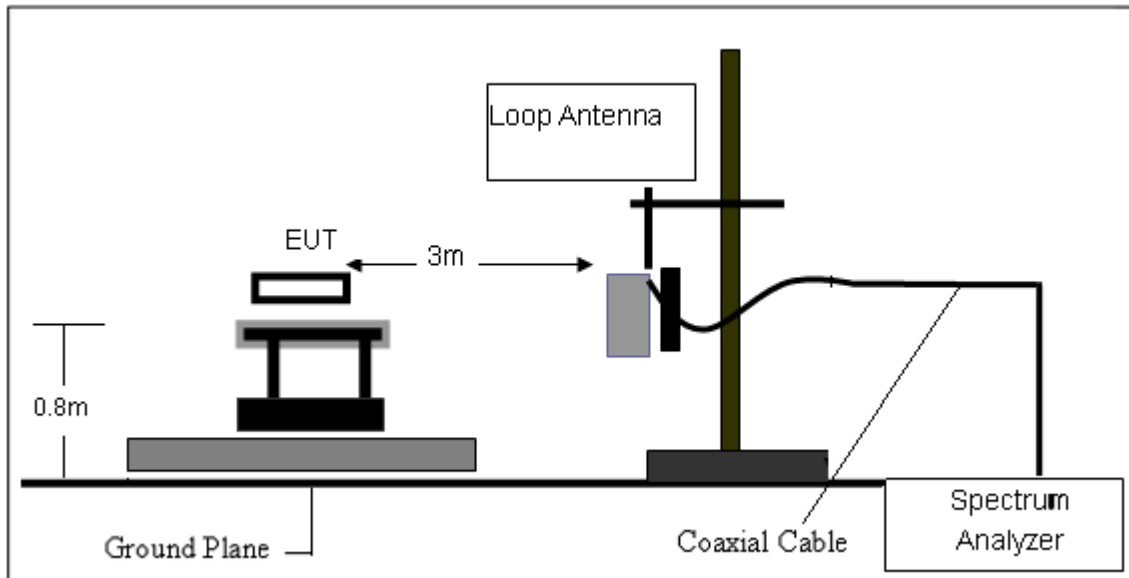
- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then QuasiPeak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

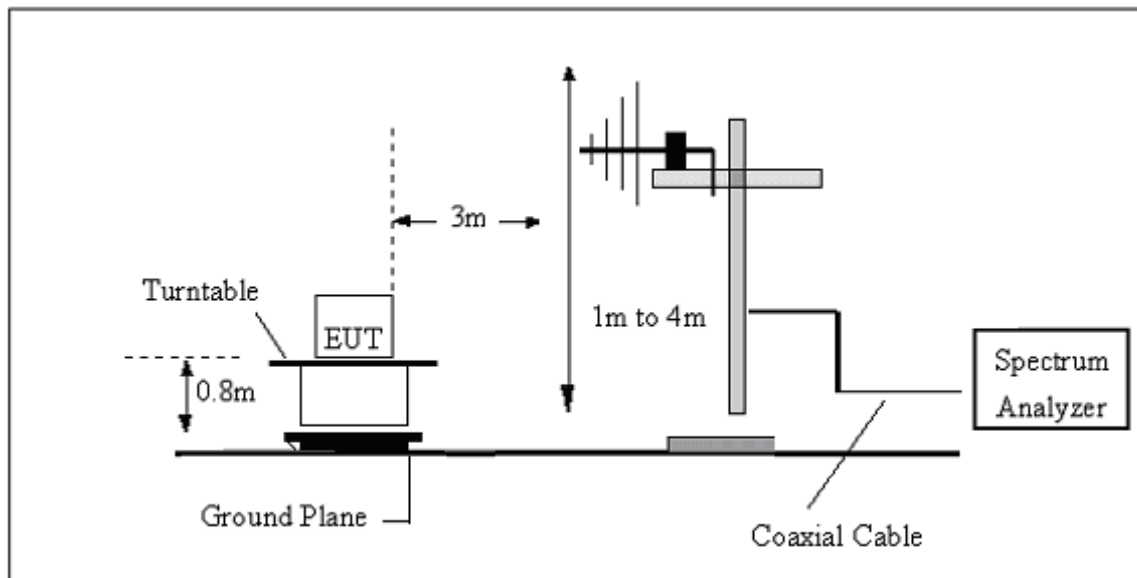
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

7.3 TESTSETUP

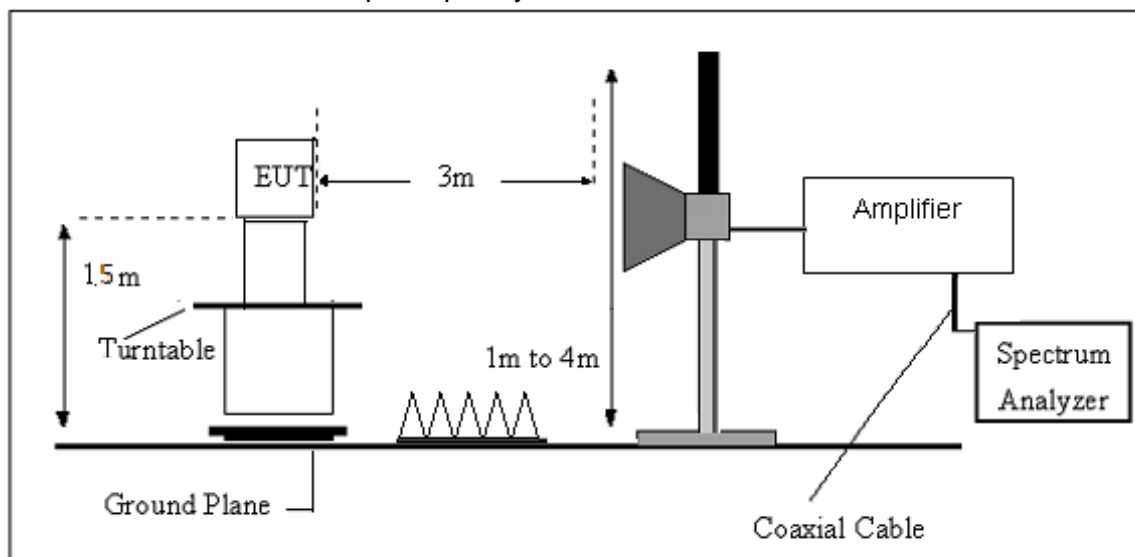
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



7.4. TEST RESULTS

(9KHz-30MHz)

Temperature:	22.7°C	Relative Humidity:	61%
Test Voltage:	DC 3.7V from battery	Test Mode:	TX Mode

Freq.	Reading	Limit	Margin	State	Test Result
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	
--	--	--	--	--	PASS
--	--	--	--	--	PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

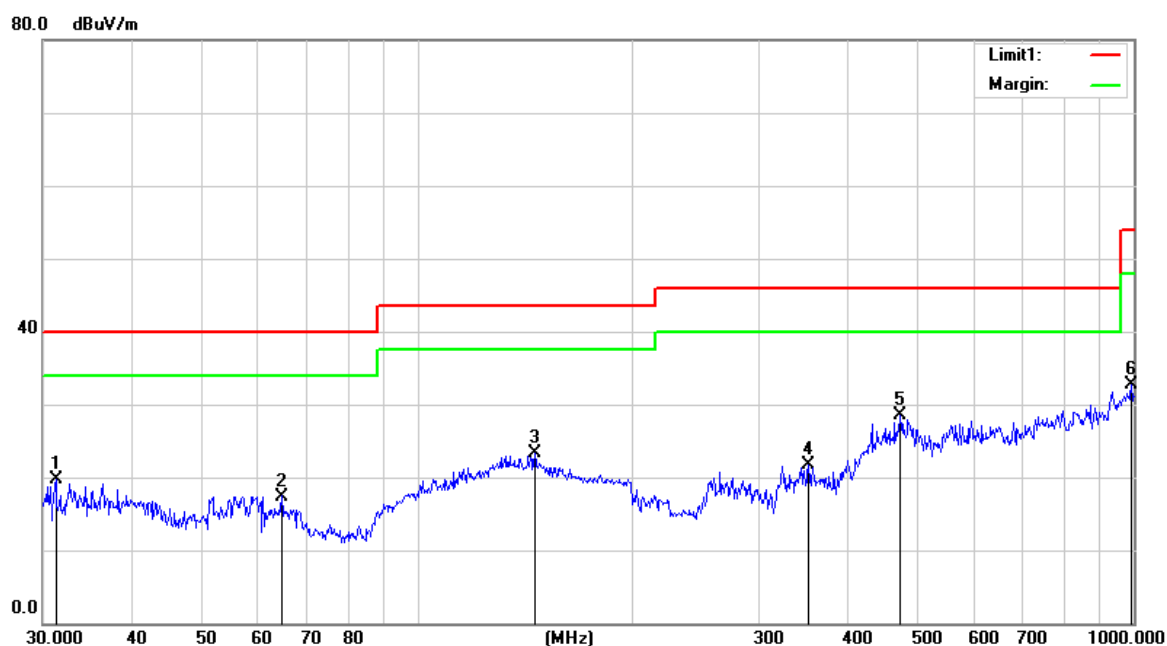
(30MHz-1000MHz)

Temperature:	22.7°C	Relative Humidity:	61%
Test Voltage:	DC 3.7V from battery	Phase:	Horizontal
Test Mode:	Mode 1/2/3/4/5/6/7/8/9(Mode 9M worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.2893	32.81	-13.05	19.76	40.00	-20.24	QP
2	64.6594	42.83	-25.43	17.40	40.00	-22.60	QP
3	145.8610	41.90	-18.61	23.29	43.50	-20.21	QP
4	351.7078	35.62	-13.84	21.78	46.00	-24.22	QP
5	472.1760	38.74	-10.22	28.52	46.00	-17.48	QP
6	993.0113	33.01	-0.27	32.74	54.00	-21.26	QP

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit

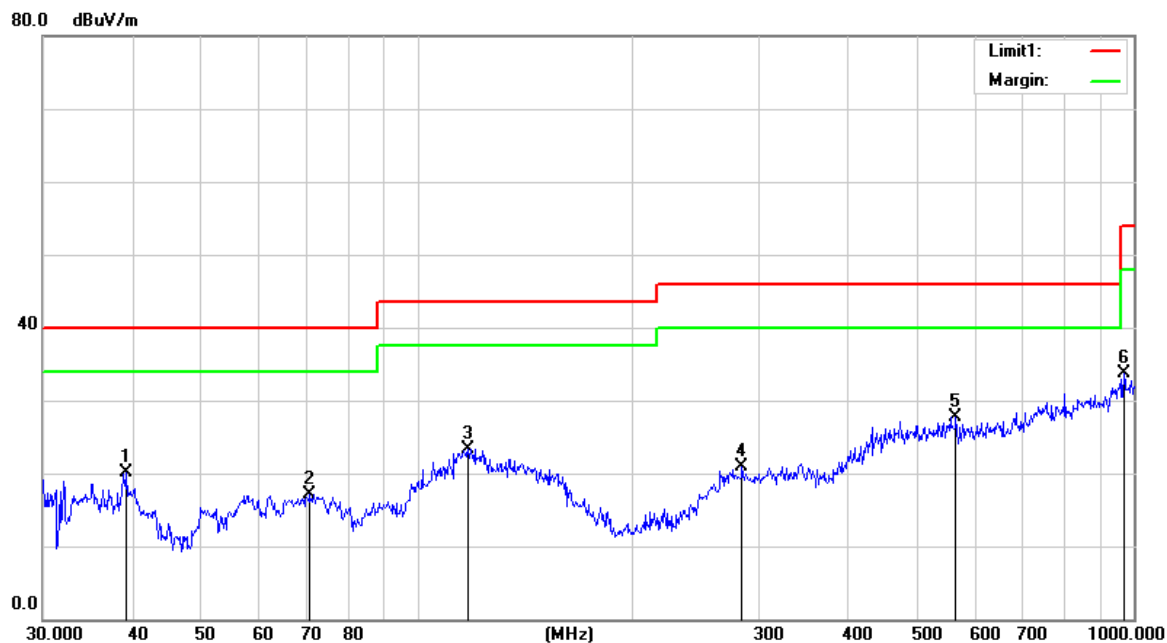


Temperature:	22.7°C	Relative Humidity:	61%
Test Voltage:	DC 3.7V from battery	Phase:	Vertical
Test Mode:	ON		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	39.2991	37.27	-17.18	20.09	40.00	-19.91	QP
2	70.8315	41.60	-24.56	17.04	40.00	-22.96	QP
3	117.7724	41.94	-18.55	23.39	43.50	-20.11	QP
4	283.9791	37.09	-16.19	20.90	46.00	-25.10	QP
5	564.6390	34.97	-7.17	27.80	46.00	-18.20	QP
6	968.9338	34.08	-0.35	33.73	54.00	-20.27	QP

Remark:

1. Margin = Result (Result = Reading + Factor)–Limit



(1GHz~25GHz) Restricted band and Spurious emission Requirements

Freq (MHz)	Read level (dBμV)	Antenna Factor (dB/m)	PRM Factor(dB)	Cable Loss (dB)	Result Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector type	Polarization
11g CH1									
4824.00	55.70	33.80	43.82	5.53	51.21	74.00	-22.79	Peak	HORIZONTAL
6899.00	46.48	35.54	43.12	6.21	45.11	74.00	-28.89	Peak	HORIZONTAL
8769.00	45.89	36.80	42.18	7.79	48.30	74.00	-25.70	Peak	HORIZONTAL
11744.00	46.40	38.30	42.60	9.07	51.17	74.00	-22.83	Peak	HORIZONTAL
13325.00	45.66	38.76	42.48	10.84	52.78	74.00	-21.22	Peak	HORIZONTAL
14413.00	43.70	40.28	41.74	11.15	53.39	74.00	-20.61	Peak	HORIZONTAL
4824.00	52.42	33.80	43.82	5.53	47.93	74.00	-26.07	Peak	VERTICAL
6440.00	46.07	35.23	43.05	6.41	44.66	74.00	-29.34	Peak	VERTICAL
8004.00	45.99	36.30	43.15	7.34	46.48	74.00	-27.52	Peak	VERTICAL
10571.00	44.65	37.67	42.38	8.89	48.83	74.00	-25.17	Peak	VERTICAL
12560.00	45.71	38.12	42.95	10.00	50.88	74.00	-23.12	Peak	VERTICAL
14039.00	43.62	40.21	41.76	11.10	53.17	74.00	-20.83	Peak	VERTICAL
11g CH6									
4876.00	56.29	33.83	43.78	5.54	51.88	74.00	-22.12	Peak	HORIZONTAL
7800.00	46.31	36.14	43.24	7.10	46.31	74.00	-27.69	Peak	HORIZONTAL
10401.00	45.87	37.64	42.69	8.84	49.66	74.00	-24.34	Peak	HORIZONTAL
12050.00	45.59	38.01	42.70	9.18	50.08	74.00	-23.92	Peak	HORIZONTAL
12951.00	45.90	38.28	42.84	10.63	51.97	74.00	-22.03	Peak	HORIZONTAL
13920.00	43.72	40.01	41.84	11.07	52.96	74.00	-21.04	Peak	HORIZONTAL
4876.00	52.03	33.83	43.78	5.54	47.62	74.00	-26.38	Peak	VERTICAL
7341.00	45.86	35.81	43.28	6.56	44.95	74.00	-29.05	Peak	VERTICAL
9704.00	45.31	37.23	43.11	8.50	47.93	74.00	-26.07	Peak	VERTICAL
11251.00	46.25	38.06	41.95	9.03	51.39	74.00	-22.61	Peak	VERTICAL
13036.00	44.89	38.35	42.79	10.72	51.17	74.00	-22.83	Peak	VERTICAL
14141.00	43.77	40.23	41.75	11.12	53.37	74.00	-20.63	Peak	VERTICAL

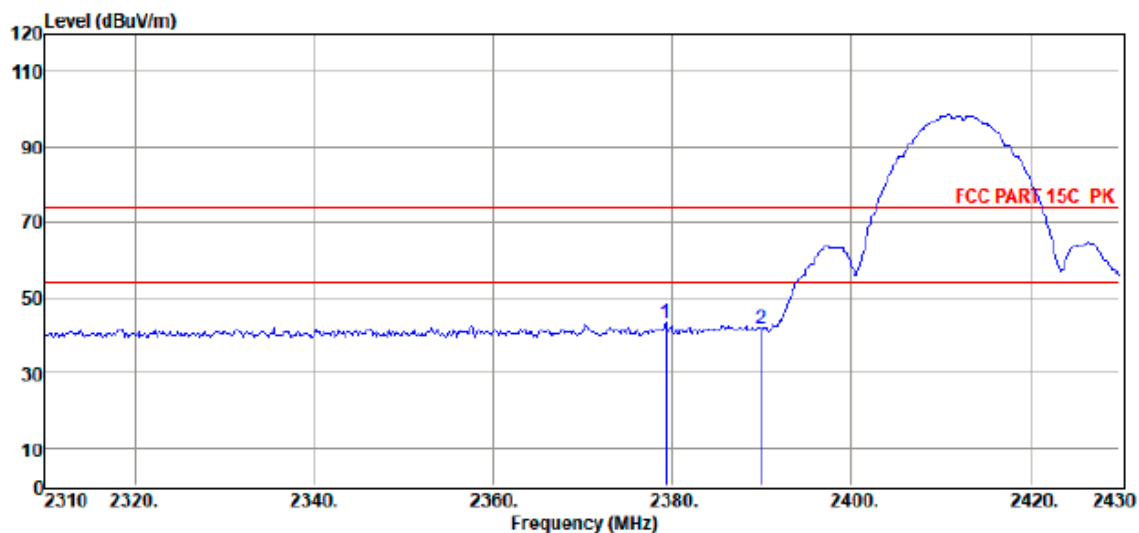
11g CH11									
4924.00	56.89	33.86	43.74	5.56	52.57	74.00	-21.43	Peak	HORIZONTAL
8021.00	46.42	36.32	43.12	7.35	46.97	74.00	-27.03	Peak	HORIZONTAL
10384.00	45.58	37.63	42.71	8.84	49.34	74.00	-24.66	Peak	HORIZONTAL
11761.00	46.04	38.28	42.60	9.08	50.80	74.00	-23.20	Peak	HORIZONTAL
13444.00	45.12	38.92	42.35	10.88	52.57	74.00	-21.43	Peak	HORIZONTAL
14294.00	43.66	40.26	41.74	11.14	53.32	74.00	-20.68	Peak	HORIZONTAL
4924.00	52.18	33.86	43.74	5.56	47.86	74.00	-26.14	Peak	VERTICAL
8004.00	45.30	36.30	43.15	7.34	45.79	74.00	-28.21	Peak	VERTICAL
9585.00	45.11	37.16	43.06	8.40	47.61	74.00	-26.39	Peak	VERTICAL
11251.00	44.82	38.06	41.95	9.03	49.96	74.00	-24.04	Peak	VERTICAL
12356.00	45.77	38.07	42.88	9.67	50.63	74.00	-23.37	Peak	VERTICAL
14719.00	43.66	40.48	41.72	11.19	53.61	74.00	-20.39	Peak	VERTICAL

- Note: 1.30MHz~25GHz: (Scan with 11b mode, 11g mode, 11n HT20, 11n HT40 mode, the worst case is 11g mode)
2. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
 4. For emissions above 1GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Radiated Band Edge data

Remark: All restriction band have been tested, and only the worst case is shown in report

802.11 b low CH

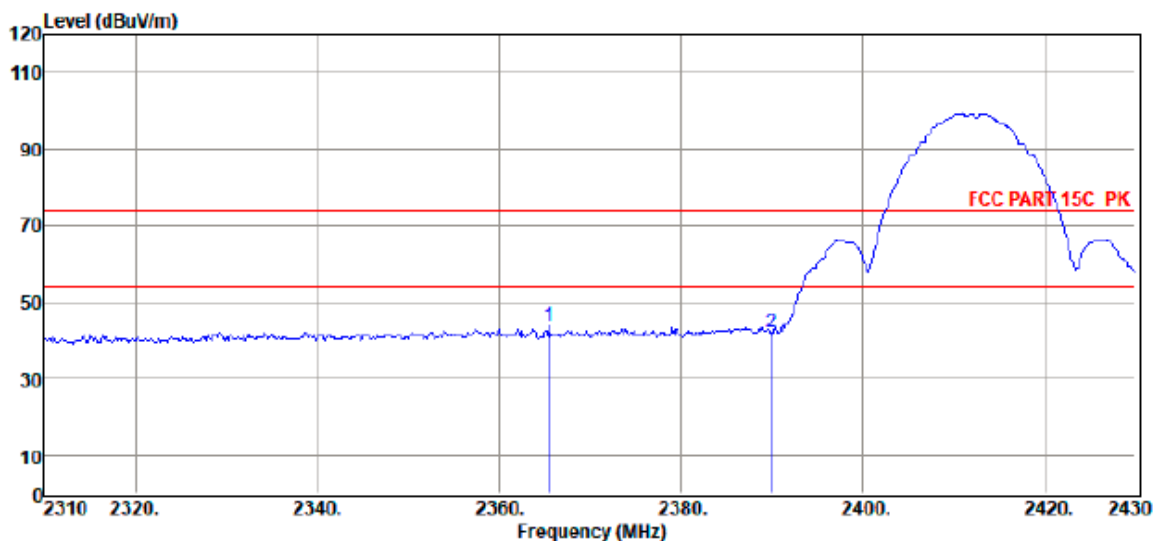


Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2379.24	53.70	29.08	43.26	3.71	43.23	74.00	-30.77	Peak	VERTICAL
2	2390.04	51.95	29.10	43.27	3.73	41.51	74.00	-32.49	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



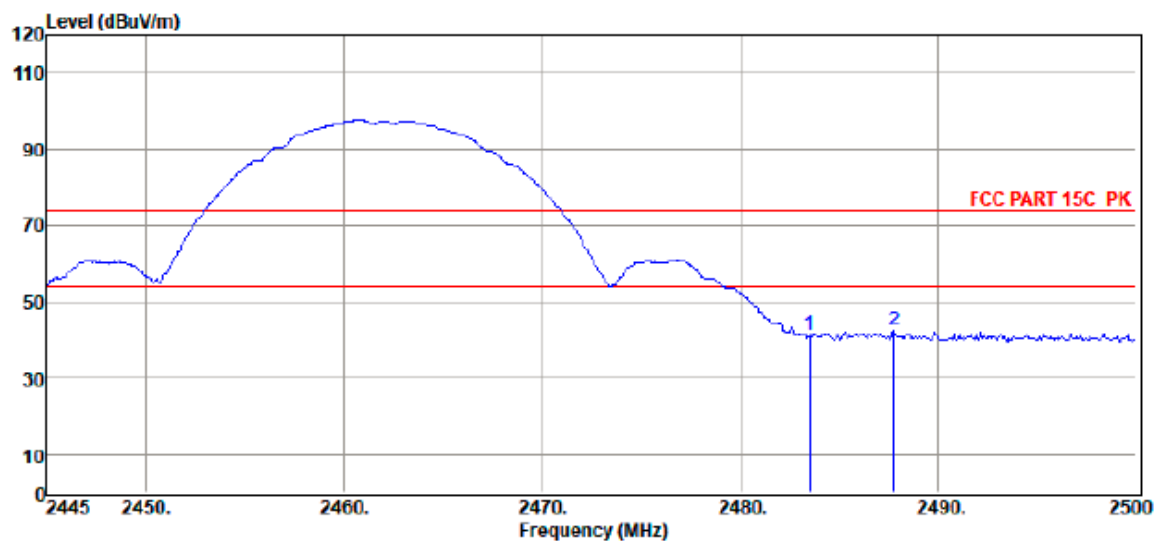
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2365.56	54.14	29.05	43.24	3.69	43.64	74.00	-30.36	Peak	HORIZONTAL
2	2390.04	52.67	29.10	43.27	3.73	42.23	74.00	-31.77	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

802.11 b High CH

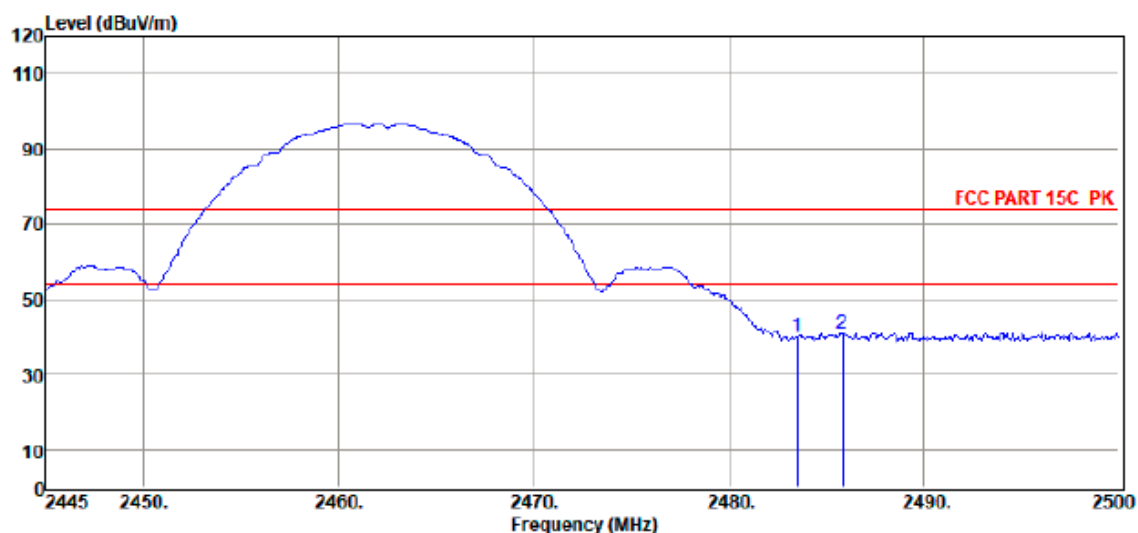


Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	51.58	29.27	43.37	3.87	41.35	74.00	-32.65	Peak	HORIZONTAL
2	2487.74	52.51	29.28	43.38	3.87	42.28	74.00	-31.72	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



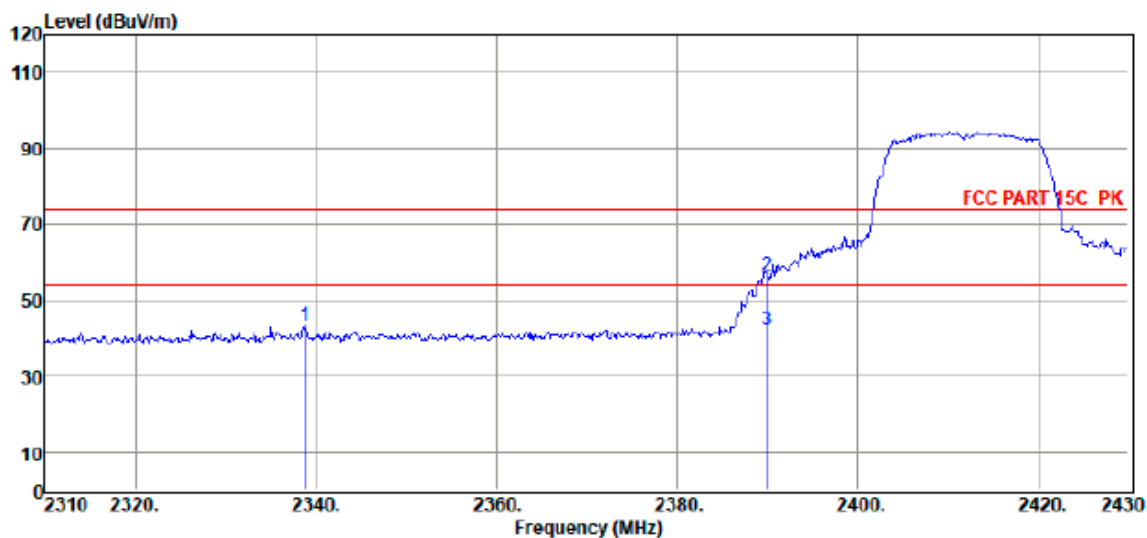
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	50.08	29.27	43.37	3.87	39.85	74.00	-34.15	Peak	VERTICAL
2	2485.81	51.24	29.27	43.37	3.87	41.01	74.00	-32.99	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

802.11 g Low CH

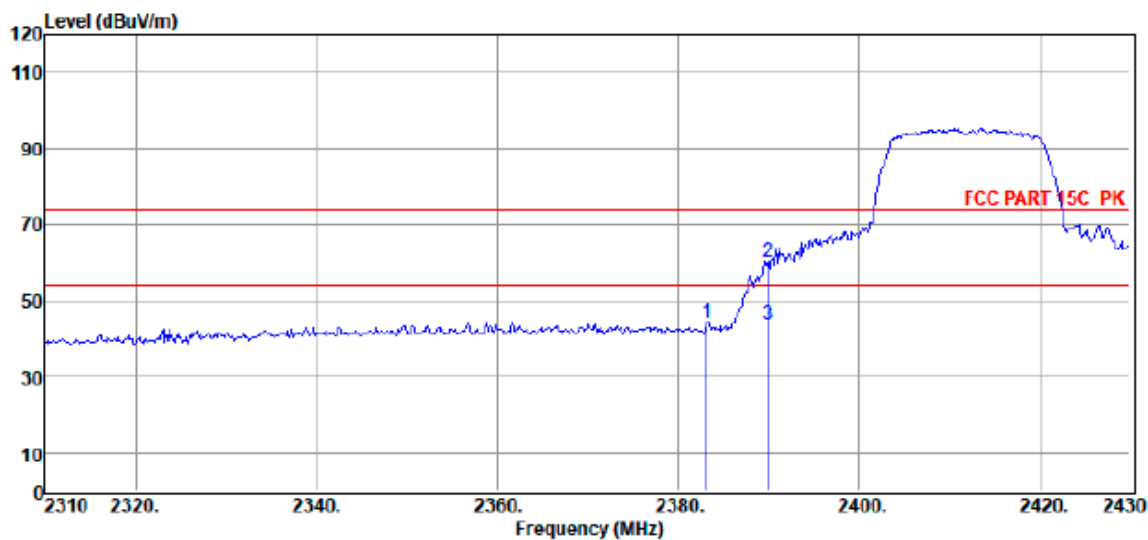


Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2338.80	53.68	29.00	43.22	3.65	43.11	74.00	-30.89	Peak	VERTICAL
2	2390.00	67.09	29.10	43.27	3.73	56.65	74.00	-17.35	Peak	VERTICAL
3	2390.00	52.56	29.10	43.27	3.73	42.12	54.00	-11.88	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



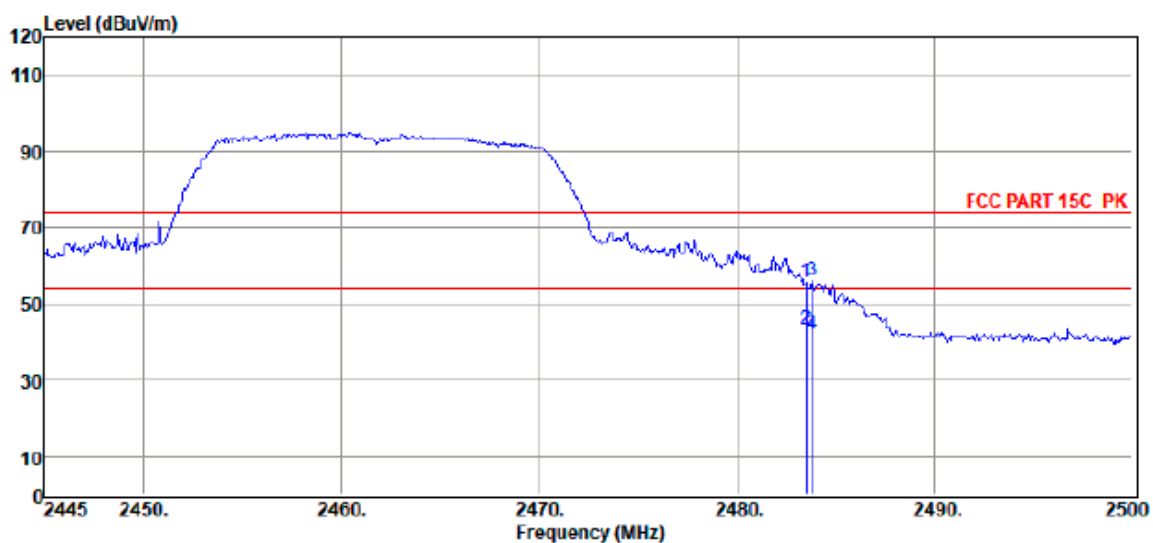
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2383.20	54.76	29.09	43.26	3.71	44.30	74.00	-29.70	Peak	HORIZONTAL
2	2390.00	70.80	29.10	43.27	3.73	60.36	74.00	-13.64	Peak	HORIZONTAL
3	2390.00	54.06	29.10	43.27	3.73	43.62	54.00	-10.38	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

802.11 g High CH

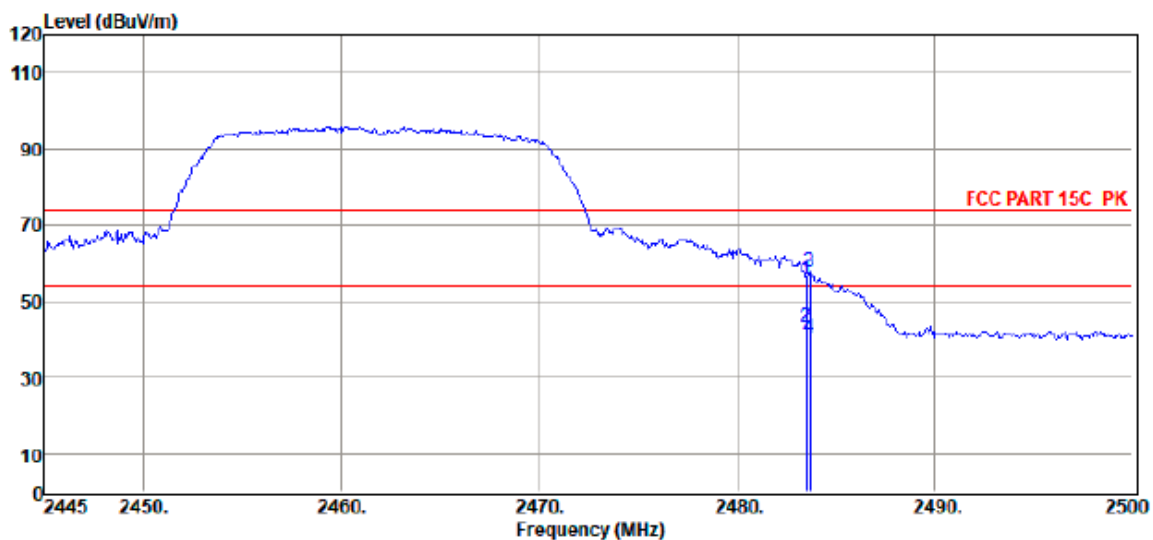


Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	65.70	29.27	43.37	3.87	55.47	74.00	-18.53	Peak	VERTICAL
2	2483.50	53.33	29.27	43.37	3.87	43.10	54.00	-10.90	Average	VERTICAL
3	2483.78	66.18	29.27	43.37	3.87	55.95	74.00	-18.05	Peak	VERTICAL
4	2483.78	52.43	29.27	43.37	3.87	42.20	54.00	-11.80	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



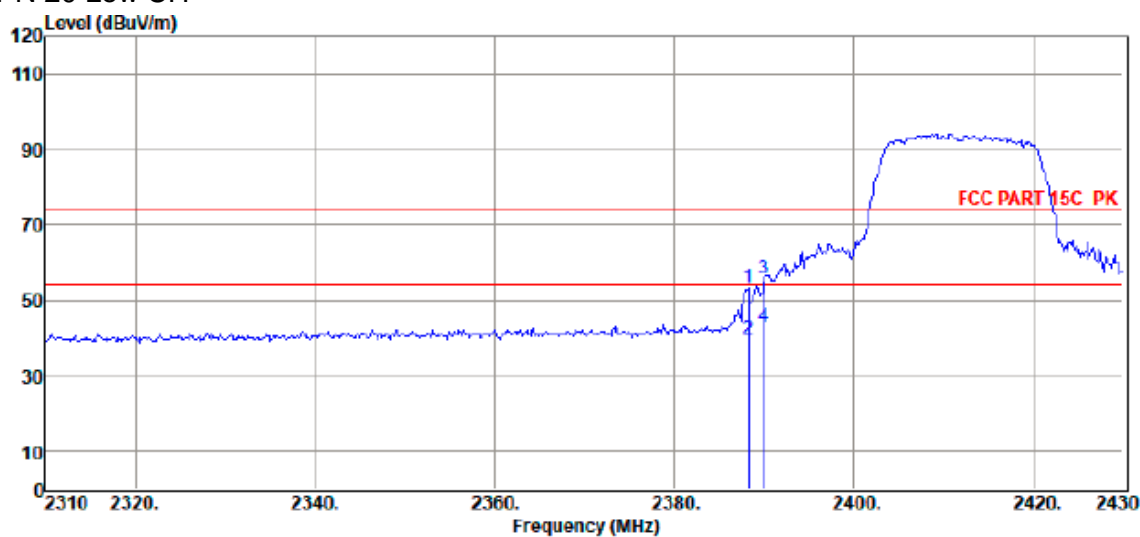
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	66.05	29.27	43.37	3.87	55.82	74.00	-18.18	Peak	HORIZONTAL
2	2483.50	53.43	29.27	43.37	3.87	43.20	54.00	-10.80	Average	HORIZONTAL
3	2483.67	67.81	29.27	43.37	3.87	57.58	74.00	-16.42	Peak	HORIZONTAL
4	2483.67	50.62	29.27	43.37	3.87	40.39	54.00	-13.61	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

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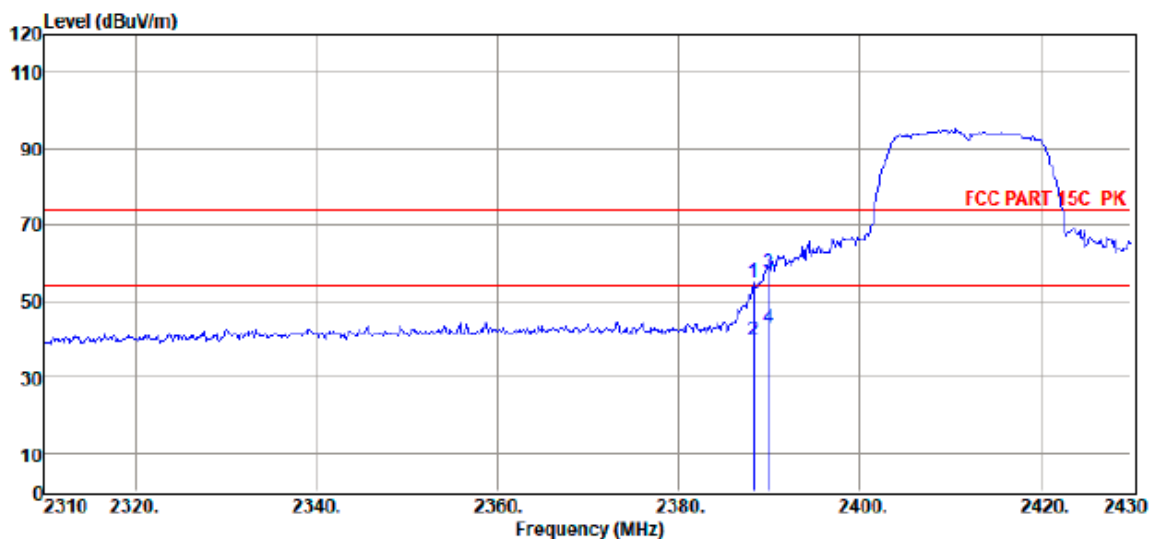


Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2388.24	63.44	29.10	43.27	3.72	52.99	74.00	-21.01	Peak	VERTICAL
2	2388.24	50.12	29.10	43.27	3.72	39.67	54.00	-14.33	Average	VERTICAL
3	2390.00	66.19	29.10	43.27	3.73	55.75	74.00	-18.25	Peak	VERTICAL
4	2390.00	53.23	29.10	43.27	3.73	42.79	54.00	-11.21	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



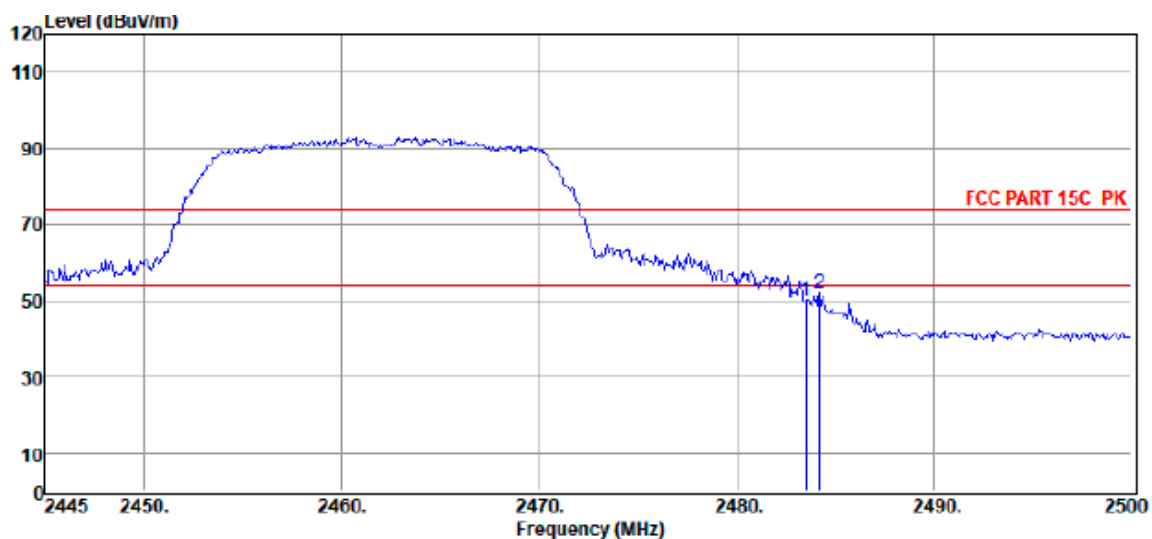
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2388.24	65.47	29.10	43.27	3.72	55.02	74.00	-18.98	Peak	HORIZONTAL
2	2388.24	49.87	29.10	43.27	3.72	39.42	54.00	-14.58	Average	HORIZONTAL
3	2390.00	67.91	29.10	43.27	3.73	57.47	74.00	-16.53	Peak	HORIZONTAL
4	2390.00	53.46	29.10	43.27	3.73	43.02	54.00	-10.98	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

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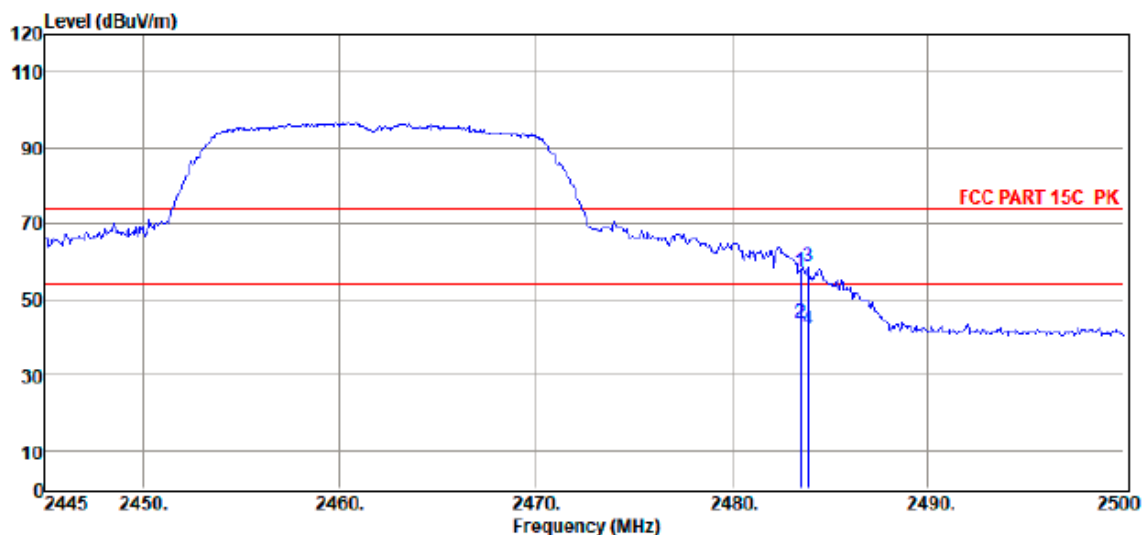


Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	60.32	29.27	43.37	3.87	50.09	74.00	-23.91	Peak	VERTICAL
2	2484.16	62.13	29.27	43.37	3.87	51.90	74.00	-22.10	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



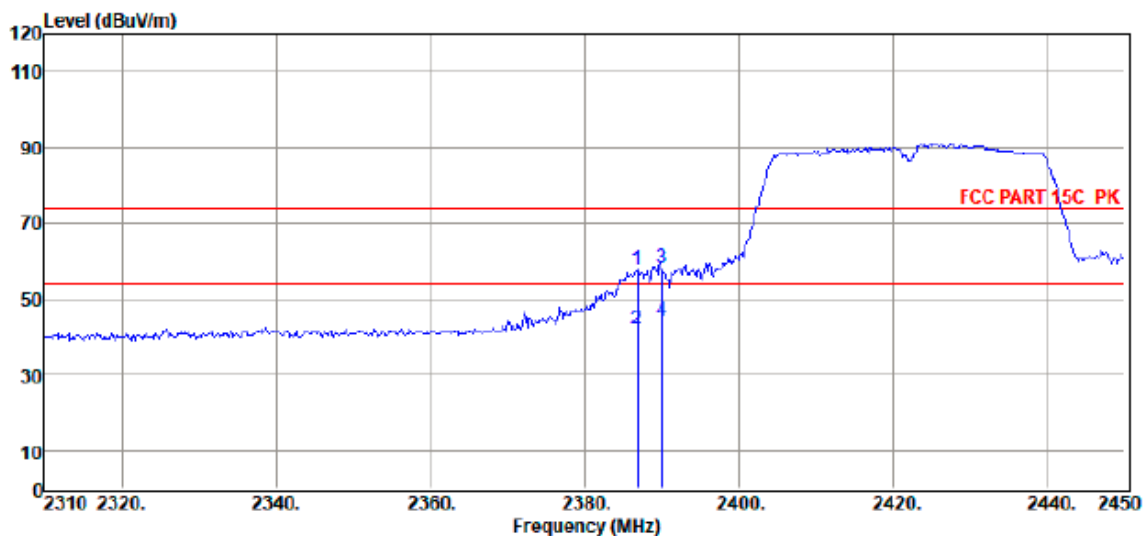
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	67.41	29.27	43.37	3.87	57.18	74.00	-16.82	Peak	HORIZONTAL
2	2483.50	53.86	29.27	43.37	3.87	43.63	54.00	-10.37	Average	HORIZONTAL
3	2483.89	68.92	29.27	43.37	3.87	58.69	74.00	-15.31	Peak	HORIZONTAL
4	2483.89	52.36	29.27	43.37	3.87	42.13	54.00	-11.87	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

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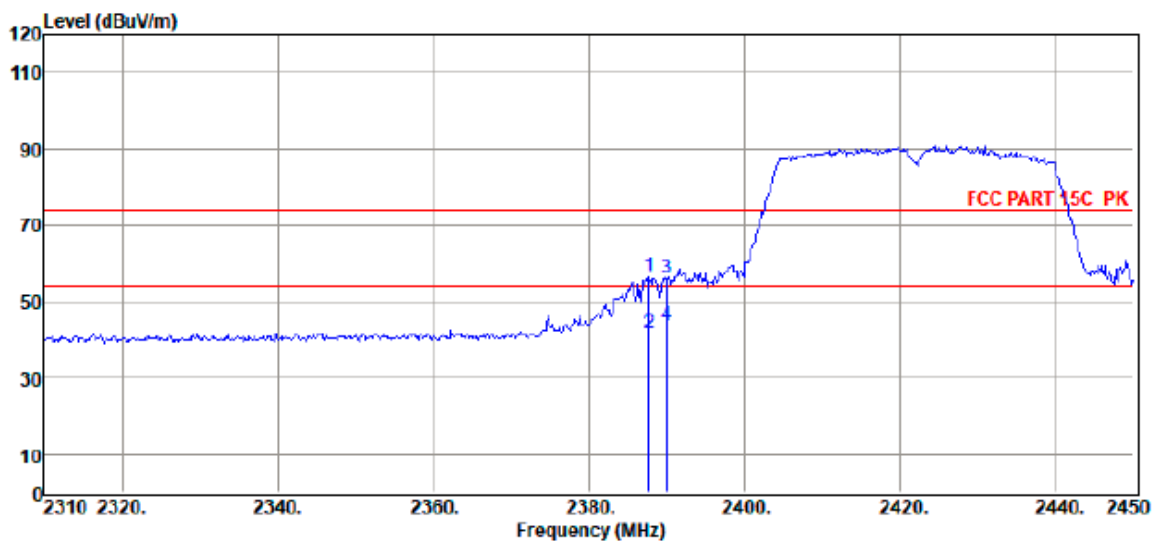


Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2386.72	67.99	29.09	43.27	3.72	57.53	74.00	-16.47	Peak	HORIZONTAL
2	2386.72	52.44	29.09	43.27	3.72	41.98	54.00	-12.02	Average	HORIZONTAL
3	2390.00	68.68	29.10	43.27	3.73	58.24	74.00	-15.76	Peak	HORIZONTAL
4	2390.00	54.40	29.10	43.27	3.73	43.96	54.00	-10.04	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



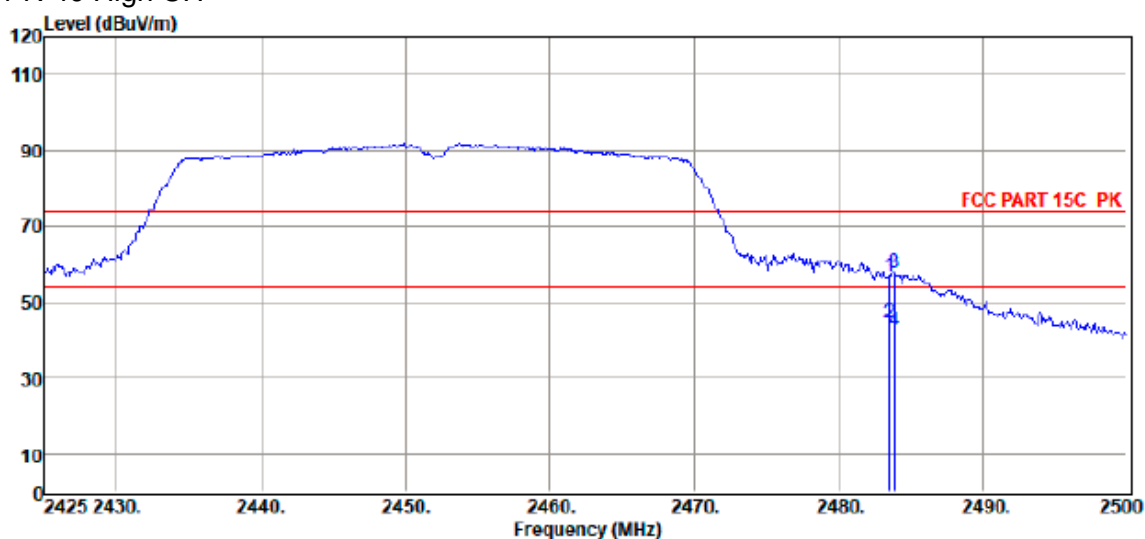
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2387.70	67.15	29.09	43.27	3.72	56.69	74.00	-17.31	Peak	VERTICAL
2	2387.70	52.01	29.09	43.27	3.72	41.55	54.00	-12.45	Average	VERTICAL
3	2390.00	66.69	29.10	43.27	3.73	56.25	74.00	-17.75	Peak	VERTICAL
4	2390.00	54.12	29.10	43.27	3.73	43.68	54.00	-10.32	Average	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

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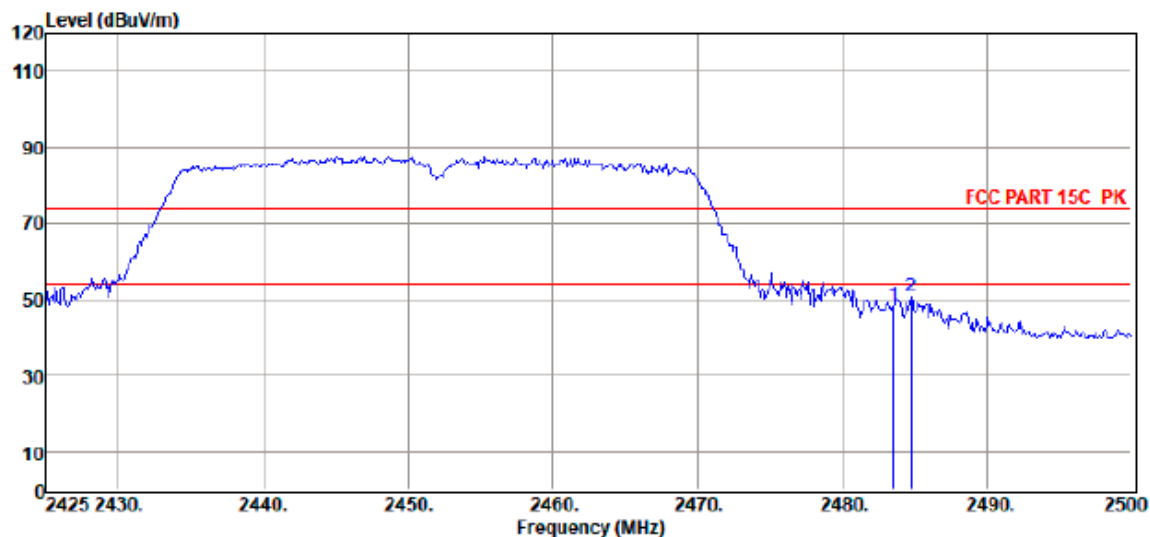


Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	66.97	29.27	43.37	3.87	56.74	74.00	-17.26	Peak	HORIZONTAL
2	2483.50	54.66	29.27	43.37	3.87	44.43	54.00	-9.57	Average	HORIZONTAL
3	2483.88	68.09	29.27	43.37	3.87	57.86	74.00	-16.14	Peak	HORIZONTAL
4	2483.88	52.74	29.27	43.37	3.87	42.51	54.00	-11.49	Average	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	58.64	29.27	43.37	3.87	48.41	74.00	-25.59	Peak	VERTICAL
2	2484.78	60.88	29.27	43.37	3.87	50.65	74.00	-23.35	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

8 CONDUCTED EMISSION TEST

8.1.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emissionlimit (dBUV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

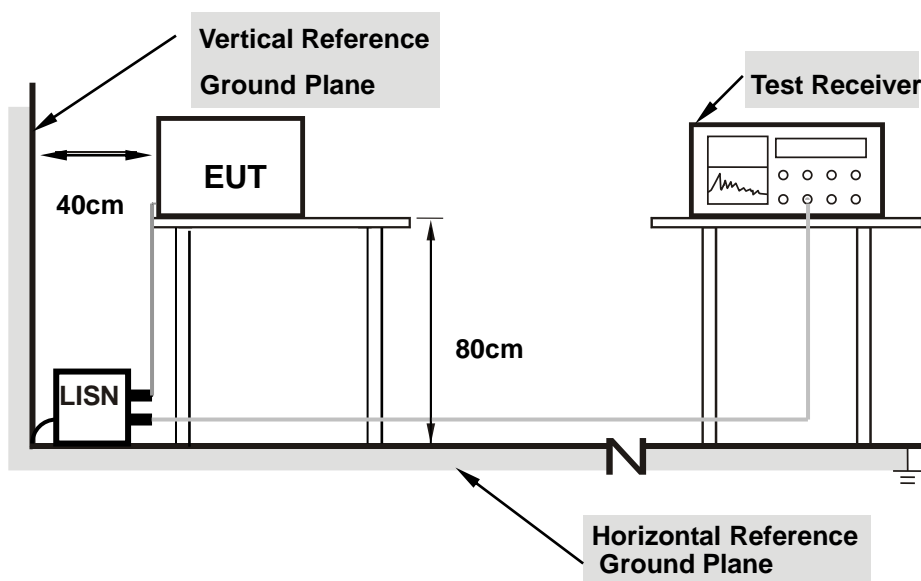
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

8.1.2 TEST PROCEDURE

- The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

8.1.3 TEST SETUP

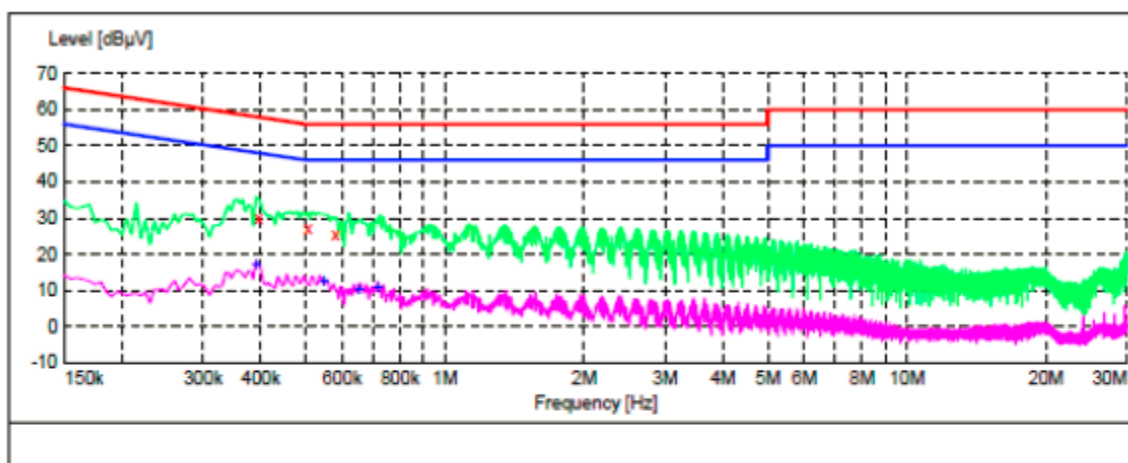


Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

8.1.4 TEST RESULT

Temperature:	22.1 °C	Relative Humidity:	56%
Test Voltage:	120V/60HZ	Phase:	L/N
Test Mode:	ON		

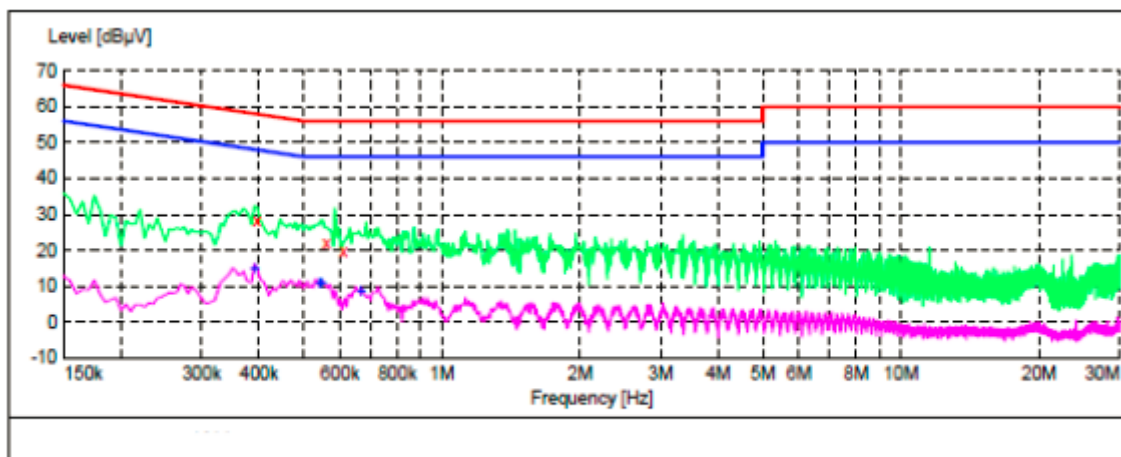


MEASUREMENT RESULT:

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.395000	30.20	10.7	58	27.8	QP	L1	GND
0.505000	27.20	10.5	56	28.8	QP	L1	GND
0.580000	25.20	10.4	56	30.8	QP	L1	GND

MEASUREMENT RESULT:

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.390000	17.50	10.7	48	30.6	AV	L1	GND
0.545000	12.70	10.5	46	33.3	AV	L1	GND
0.650000	10.60	10.4	46	35.4	AV	L1	GND
0.715000	11.00	10.4	46	35.0	AV	L1	GND



MEASUREMENT RESULT:

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.395000	28.10	10.7	58	29.9	QP	N	GND
0.560000	22.30	10.5	56	33.7	QP	N	GND
0.610000	19.50	10.4	56	36.5	QP	N	GND

MEASUREMENT RESULT:

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.390000	15.10	10.7	48	33.0	AV	N	GND
0.540000	11.00	10.5	46	35.0	AV	N	GND
0.545000	11.00	10.5	46	35.0	AV	N	GND
0.665000	9.20	10.4	46	36.8	AV	N	GND

9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.2 RESULT

The antennas used for this product are integrated antenna and other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 1.9dBi.

*****END OF THE REPORT*****