



RF TEST REPORT

Report No.: SET2016-03231

Product Name: LTE/WCDMA/GSM (GPRS) Dual-Mode Digital Mobile Phone

FCC ID: SRQ-ZTEB2016

Model No. : ZTE B2016

Applicant: ZTE Corporation

Address: ZTE Plaza, Keji Road South, Shenzhen, China

Dates of Testing: 01/08/2016 — 12/28/2016

Issued by: CCIC-SET

Lab Location: Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen, 518055, P. R. China

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Test Report

Product Name : LTE/WCDMA/GSM (GPRS) Dual-Mode Digital Mobile
Phone

Brand Name : ZTE

Trade Name : ZTE

Applicant : ZTE Corporation

Applicant Address : ZTE Plaza, Keji Road South, Shenzhen, China

Manufacturer : ZTE Corporation

Manufacturer Address : ZTE Plaza, Keji Road South, Shenzhen, China

Test Standards : 47 CFR Part 15 Subpart C: Radio Frequency Devices
ANSI C63.10 2013: American National Standard for
Testing Unlicensed Wireless Devices
KDB558074 D01 v03r05

Test Result : PASS

Tested by : Fly Fan 2016.12.29
Fly Fan, Test Engineer

Reviewed by : Zhu Qi 2016.12.29
Zhu Qi, Senior Eginer

Approved by : Wu Lian 2016.12.29
Wu Li'an, Manager



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Change History		
Issue	Date	Reason for change
1.0	2016.12.29	First edition



1. General Information

1.1. EUT Description

EUT Type	LTE/WCDMA/GSM (GPRS) Dual-Mode Digital Mobile Phone	
Hardware Version	uf4A	
Software Version	ZTE B2016 LAV1.0.0B01	
EUT supports Radios application	GSM/GPRS/EDGE/WCDMA/HSPA/CDMA2000/LTE WLAN2.4GHz 802.11b/g/n (HT20/HT40) Bluetooth V3.0+EDR / Bluetooth V4.0LE	
Frequency Range	WLAN	802.11b/g/n-20MHz: 2.412GHz - 2.462GHz 802.11n-40MHz: 2.422GHz - 2.452GHz
Channel Number	WLAN	802.11b/g/n-20MHz: 11 802.11n-40MHz: 7
Bit Rate of Transmitter	WLAN	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n : up to 135 Mbps
Modulation Type	WLAN	DSSS (802.11b), OFDM (802.11g/n)
Antenna Type	Internal Antenna	
Antenna Gain	2dBi	

Note 1: The EUT is a Mobile Phone, it contain WIFI operating at 2.4GHz ISM band; it supports 802.11b, 802.11g, 802.11n and they are all tested in this report.

Note 2: The frequencies allocated is $F \text{ (MHz)} = 2412 + 5 * (n - 1)$ ($1 \leq n \leq 11$). The lowest, middle, highest channel numbers of the EUT used and tested in this report are separately 1ch (2412MHz), 6ch(2437MHz), 11ch(2462MHz) for 802.11b/g/n-20MHz., and 3ch(2422MHz), 6ch(2437MHz), 9ch(2452MHz) for 802.11n-40MHz.

Note 3: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 4: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.



1.2. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C (WiFi, 2.4GHz ISM band radiators) for the EUT FCC Certification:

No.	Identity	Document Title
1	47 CFR Part 15 Subpart C 2016	Radio Frequency Devices
2	ANSI C63.10 2013	American National Standard for Testing Unlicensed Wireless Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section in CFR 47	Description	Result
1	15.203	Antenna Requirement	PASS
2	15.247(b)	Peak Output Power	PASS
3	15.247(a)	6dB Bandwidth	PASS
4	15.247(d)	Conducted Band Edges and Spurious Emission	PASS
5	15.247(e)	Power spectral density (PSD)	PASS
6	15.207	Conducted Emission	PASS
7	15.209 15.247(d)	Radiated Band Edges and Spurious Emission	PASS

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10-2013.

These RF tests were performed according to the method of measurements prescribed in KDB558074 D01 v03r05.

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

There are two bandwidth systems:

For 20MHz bandwidth systems, use Channel 1~ Channel 11

Channel No.	Frequency	Channel No.	Frequency	Channel No.	Frequency
1	2412MHz	5	2432MHz	9	2452MHz
2	2417MHz	6	2437MHz	10	2457MHz
3	2422MHz	7	2442MHz	11	2462MHz
4	2427MHz	8	2447MHz		



Test Items	Mode	Data Rate	Channel
Peak Conducted Output Power Power Spectral Density 6dB Bandwidth Conducted and Spurious Emission Radiated and Spurious Emission	11b/DSSS	1 Mbps	1/6/11
	11g/OFDM	6 Mbps	1/6/11
	11n(20MHz)/OFDM	MCS 0	1/6/11
	11n(40MHz)/OFDM	MCS 0	3/6/9
Band Edge	11b/DSSS	1 Mbps	1/11
	11g/OFDM	6 Mbps	1/11
	11n(20MHz)/OFDM	MCS 0	1/11
	11n(40MHz)/OFDM	MCS 0	3/9

1.3. Table for Supporting Units

No.	Equipment	Brand Name	Model Name	Manufacturer	Serial No.	Note
1	Notebook	DELL	PP11L	DELL	H5914A03	FCC DOC

1.4. Facilities and Accreditations

1.4.1. Facilities

CNAS-Lab Code: L1659

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. CCIC is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659. A 12.8*6.8*6.4 (m) fully anechoic chamber was used for the radiated spurious emissions test.

FCC-Registration No.: 406086

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 406086, valid time is until October 28, 2017.

IC-Registration No.: 11185A-1

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Aug. 03, 2019.

1.4.2. Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15°C - 35°C
Relative Humidity (%):	30% -60%
Atmospheric Pressure (kPa):	86KPa-106KPa

2. 47 CFR Part 15C Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

According to FCC 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

And according to FCC 47 CFR Section 15.247(c), 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.

2.1.2. Antenna Information

Antenna Category: Internal antenna

An Internal antenna was soldered to the antenna port of EUT via an adaptor cable, can't be removed.

Antenna General Information:

No.	EUT	Ant. Type	Gain(dBi)
1	LTE/WCDMA/GSM (GPRS) Dual-Mode Digital Mobile Phone	Internal	2

2.1.3. Result: comply

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2. Peak Output Power

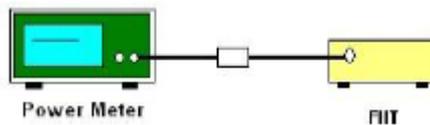
2.2.1. Limit of Peak Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

2.2.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.2.3. Test Setup



2.2.4. Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 v03r05.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

2.2.5. Test Result

Test mode	Channel	Frequency (MHz)	RF Power(dBm)	Limit (dBm)	Verdict
802.11b	1	2412	16.61	30	PASS
	6	2437	16.76		PASS
	11	2462	17.19		PASS
802.11g	1	2412	15.32		PASS
	6	2437	15.57		PASS
	11	2462	16.02		PASS
802.11n20	1	2412	15.36		PASS
	6	2437	15.55		PASS



Test mode	Channel	Frequency (MHz)	RF Power(dBm)	Limit (dBm)	Verdict
	11	2462	15.96		PASS
802.11n40	3	2422	15.34		PASS
	6	2437	15.58		PASS
	9	2452	15.78		PASS

Note: All data rates are testing, but the worse case data rate was record in the report.

2.3. 6dB Bandwidth

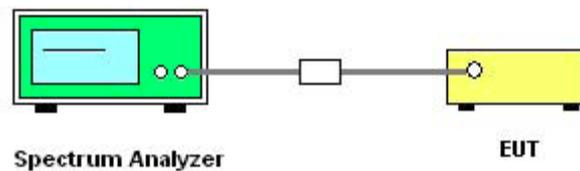
2.3.1. Limit of 6dB Bandwidth

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

2.3.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.3.3. Test Setup



2.3.4. Test Procedures

1. The testing follows FCC KDB558074 D01 v03r05.

2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

3. Set to the maximum power setting and enable the EUT transmit continuously.

4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz.

Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.

5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 30 kHz and set the Video bandwidth (VBW) = 100 kHz.

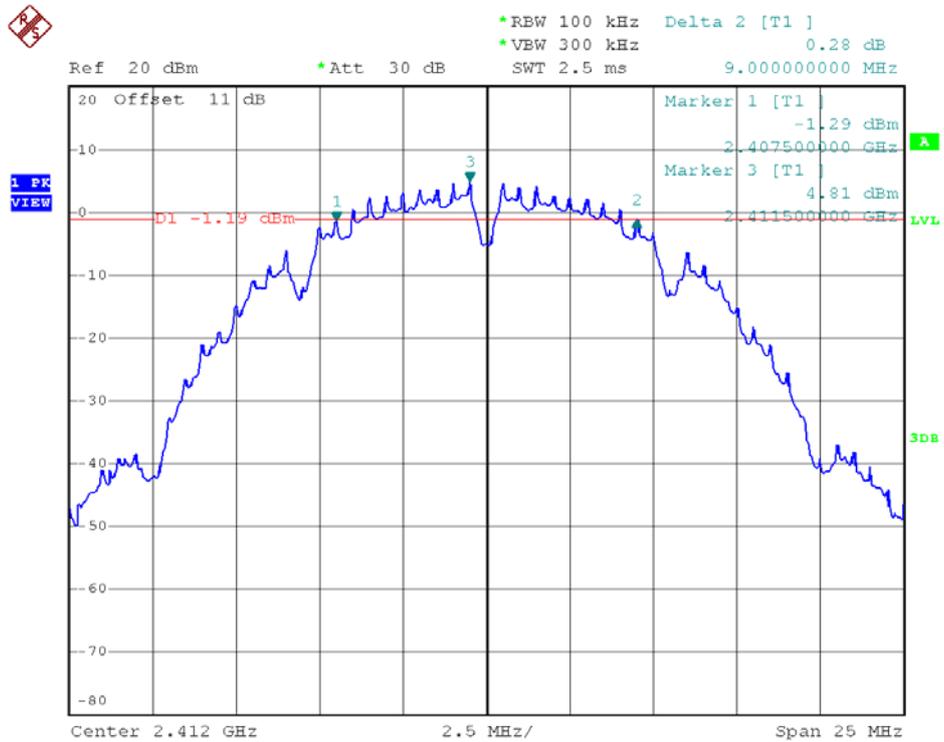
6. Measure and record the results in the test report.

2.3.5. Test Results of 6dB Bandwidth

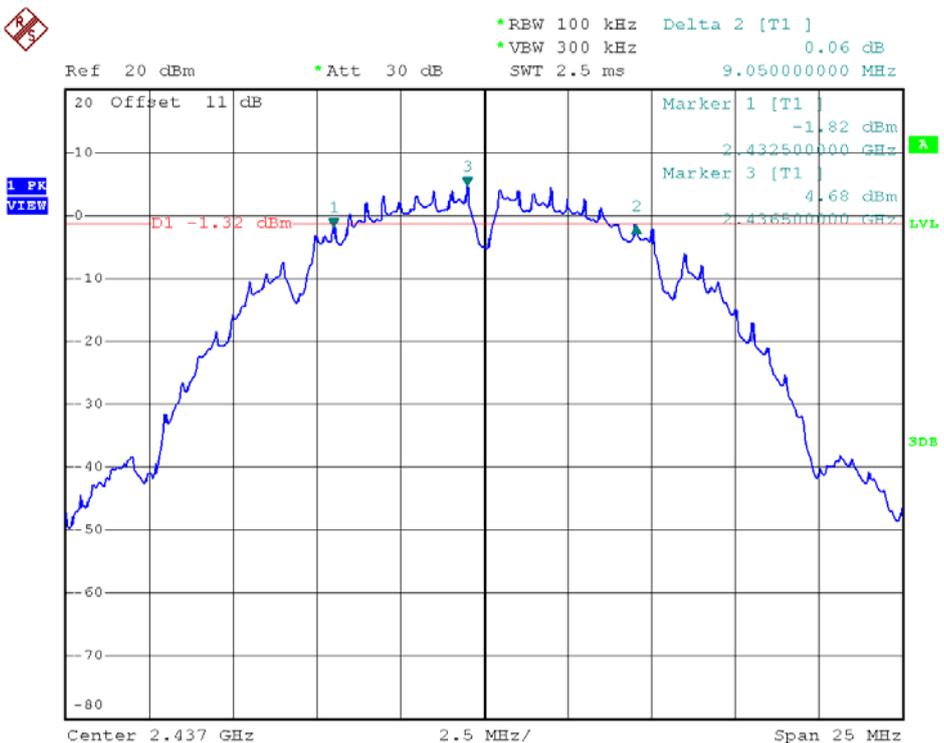
Test mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (MHz)	Result
802.11b	1	2412	9.00	≥0.5	PASS
	6	2437	9.05		PASS
	11	2462	9.05		PASS
802.11g	1	2412	16.50		PASS
	6	2437	16.55		PASS
	11	2462	16.50		PASS
802.11n20	1	2412	17.70		PASS
	6	2437	17.70		PASS
	11	2462	17.65		PASS
802.11n40	3	2422	35.82		PASS
	6	2437	35.48		PASS
	9	2452	35.69		PASS

2.3.6. Test Results (plots) of 6dB Bandwidth

802.11b - 6 dB Bandwidth Plot on channel 1

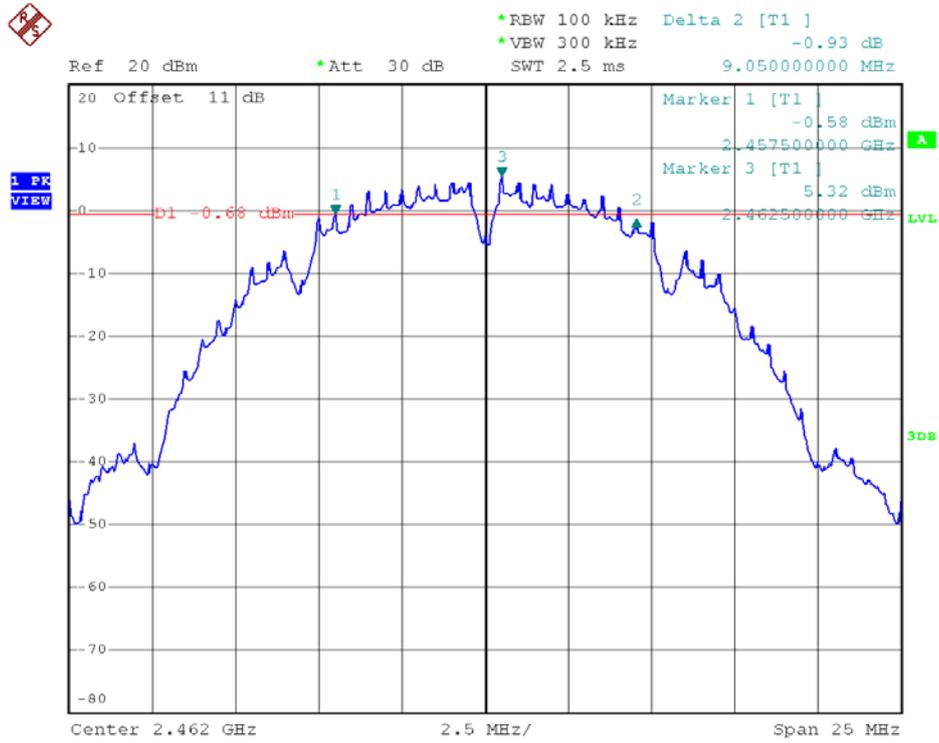


802.11b - 6 dB Bandwidth Plot on channel 6

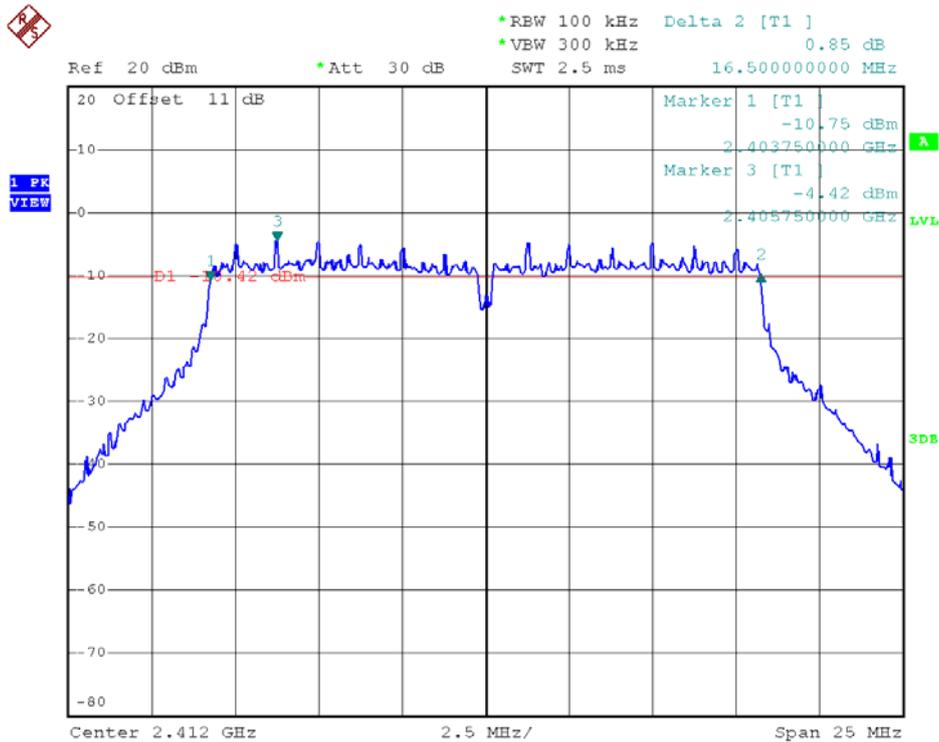




802.11b - 6 dB Bandwidth Plot on channel 11

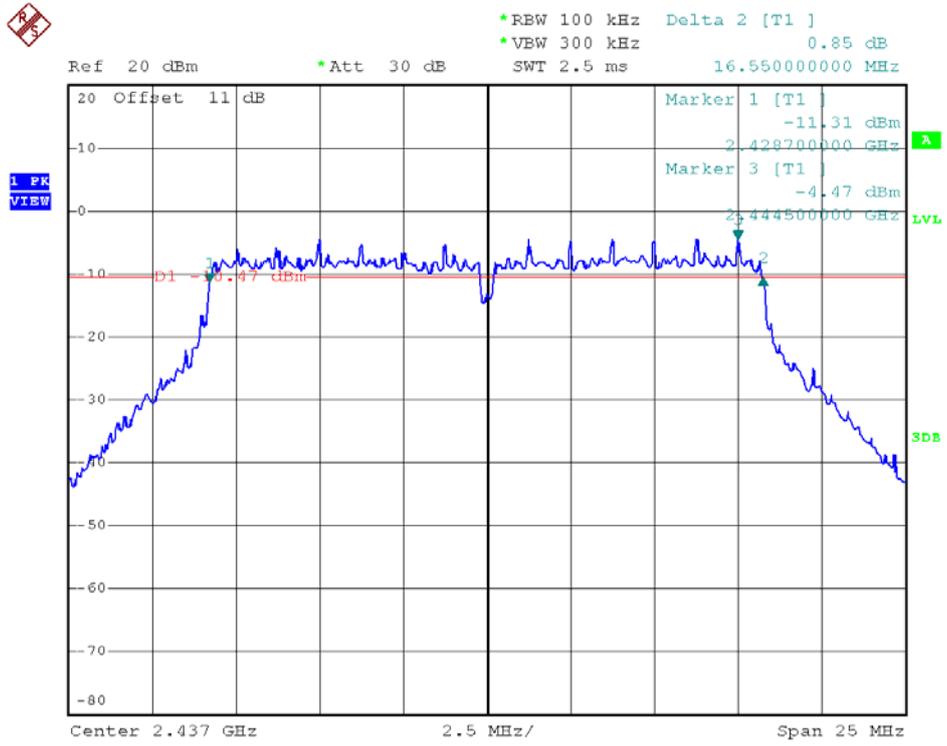


802.11g - 6 dB Bandwidth Plot on channel 1

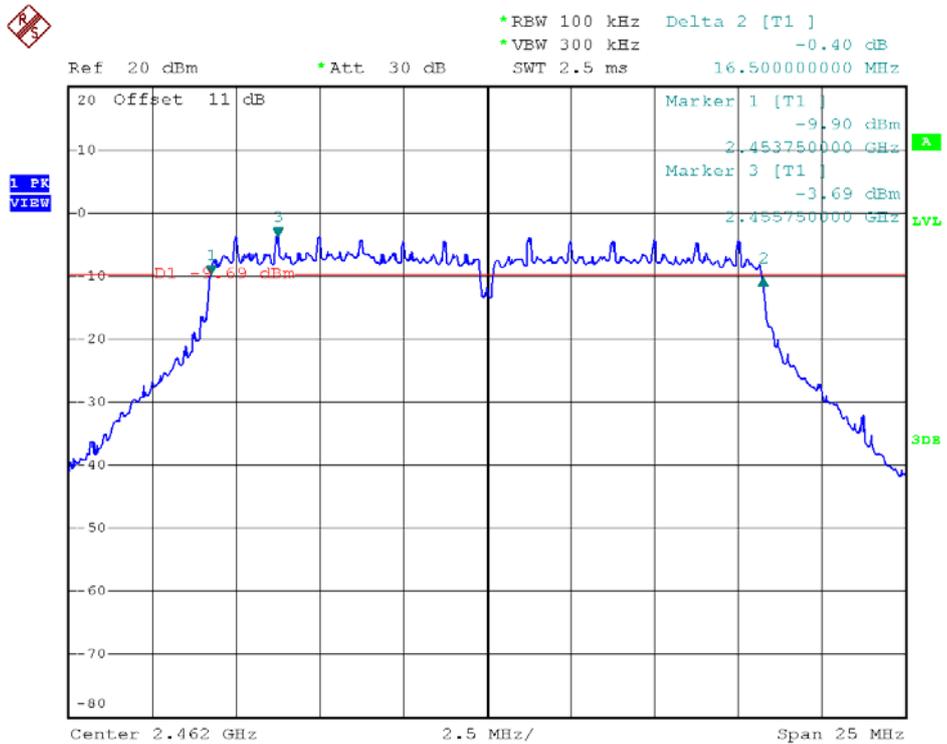




802.11g - 6 dB Bandwidth Plot on channel 6

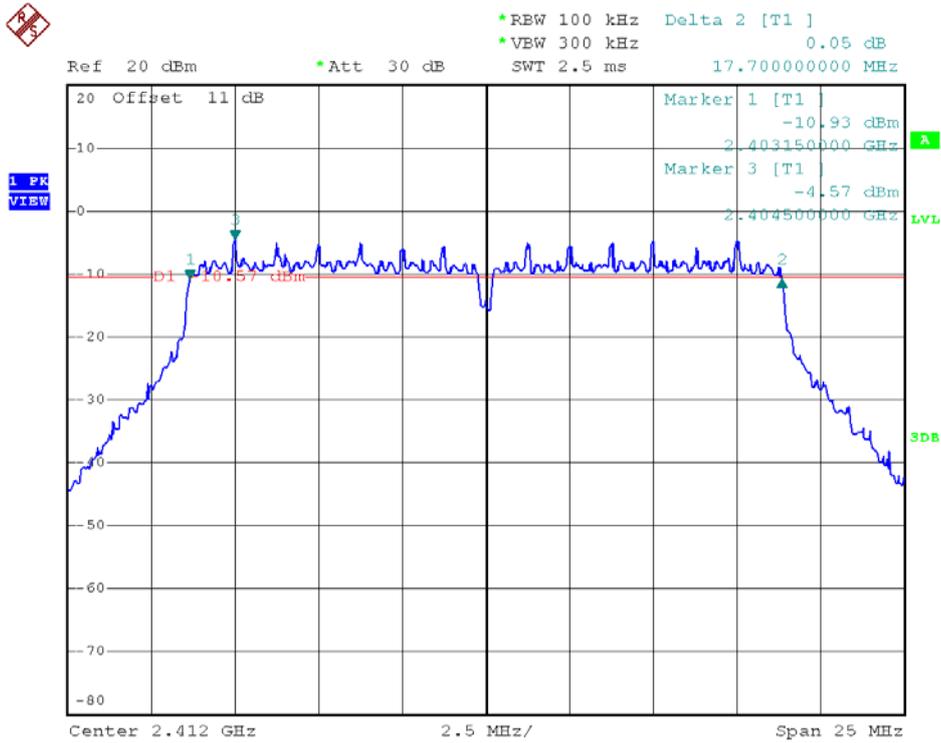


802.11g - 6 dB Bandwidth Plot on channel 11

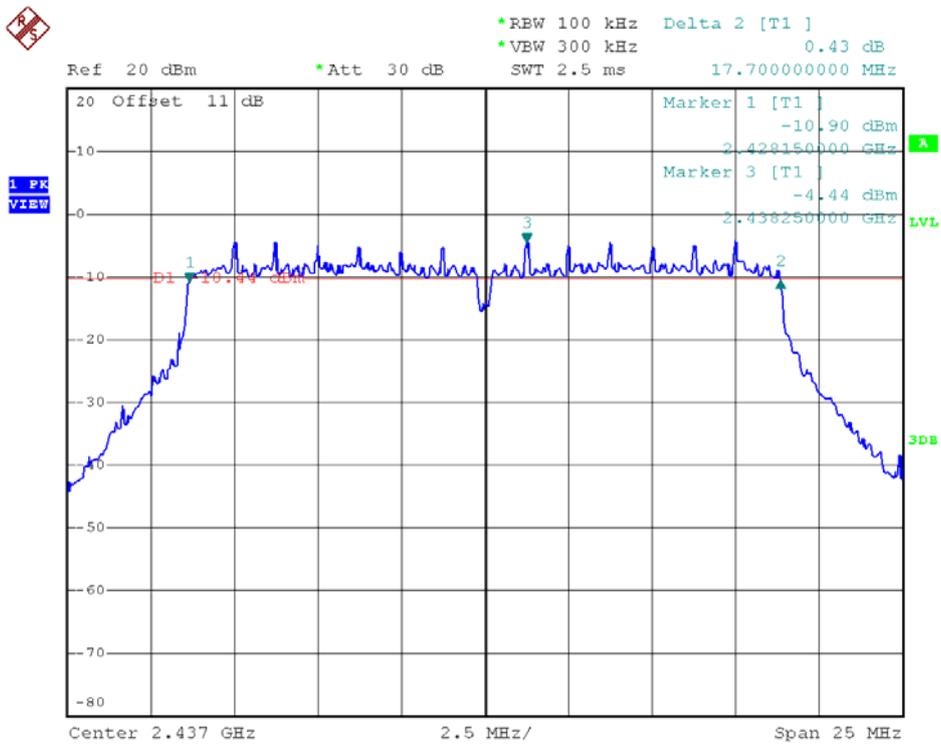




802.11n20 - 6 dB Bandwidth Plot on channel 1

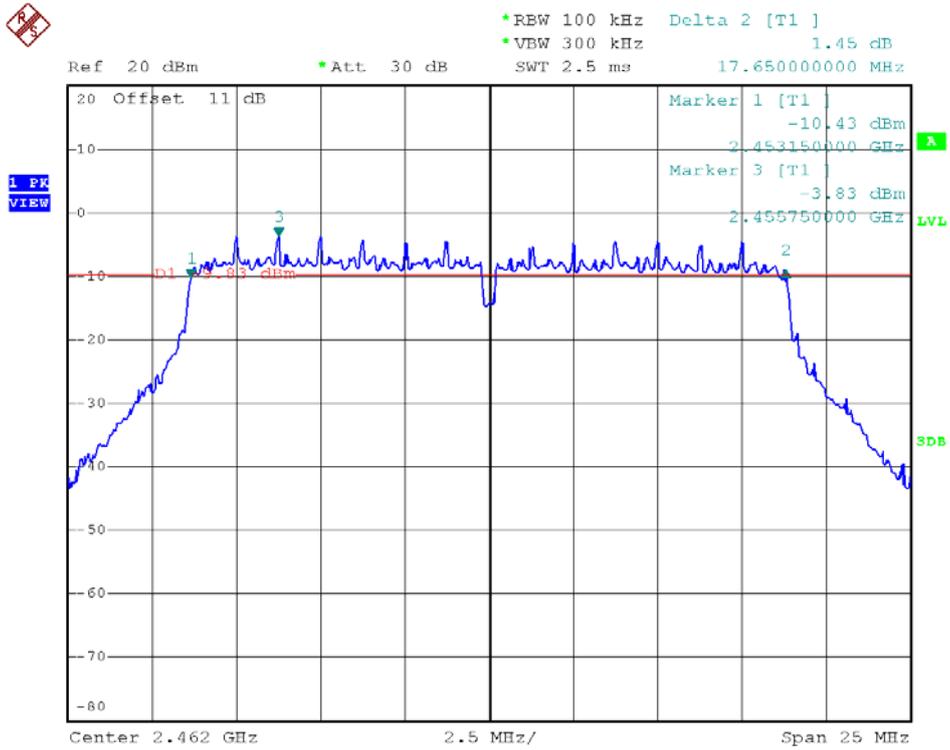


802.11n20 - 6 dB Bandwidth Plot on channel 6

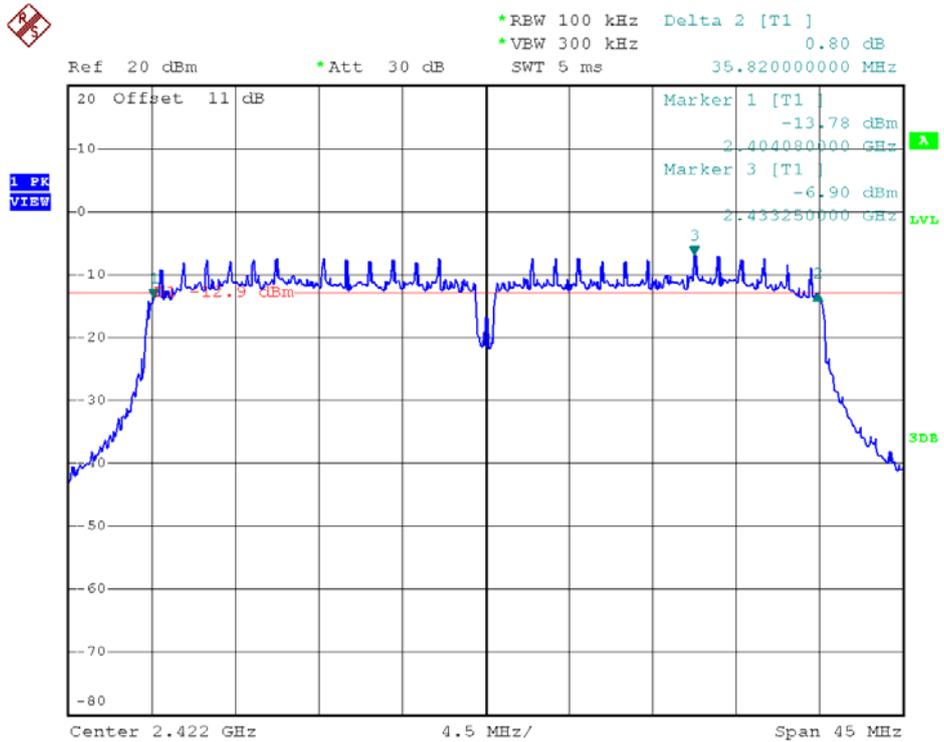




802.11n20 - 6 dB Bandwidth Plot on channel 11

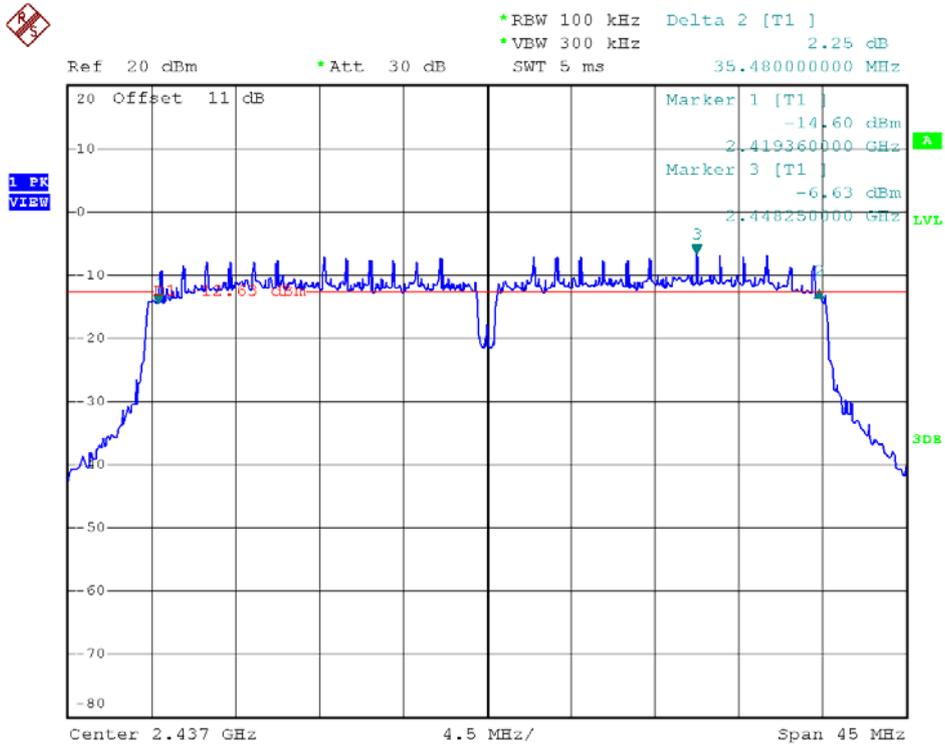


802.11n40 - 6 dB Bandwidth Plot on channel 3

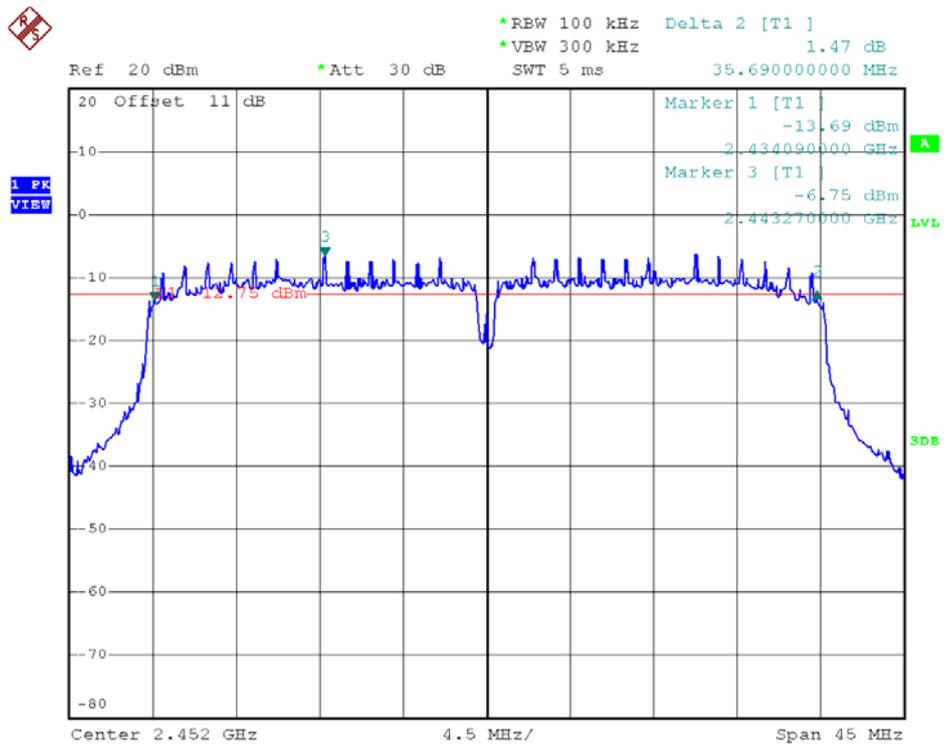




802.11n40 - 6 dB Bandwidth Plot on channel 6



802.11n40 - 6 dB Bandwidth Plot on channel 9



2.4. Conducted Band Edges and Spurious Emissions

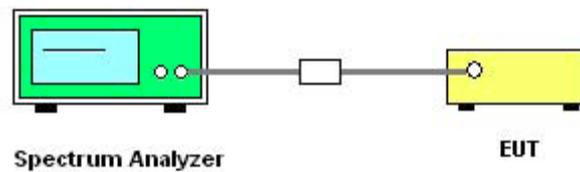
2.4.1. Limit of Conducted Band Edges and Spurious Emissions

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

2.4.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.4.3. Test Setup

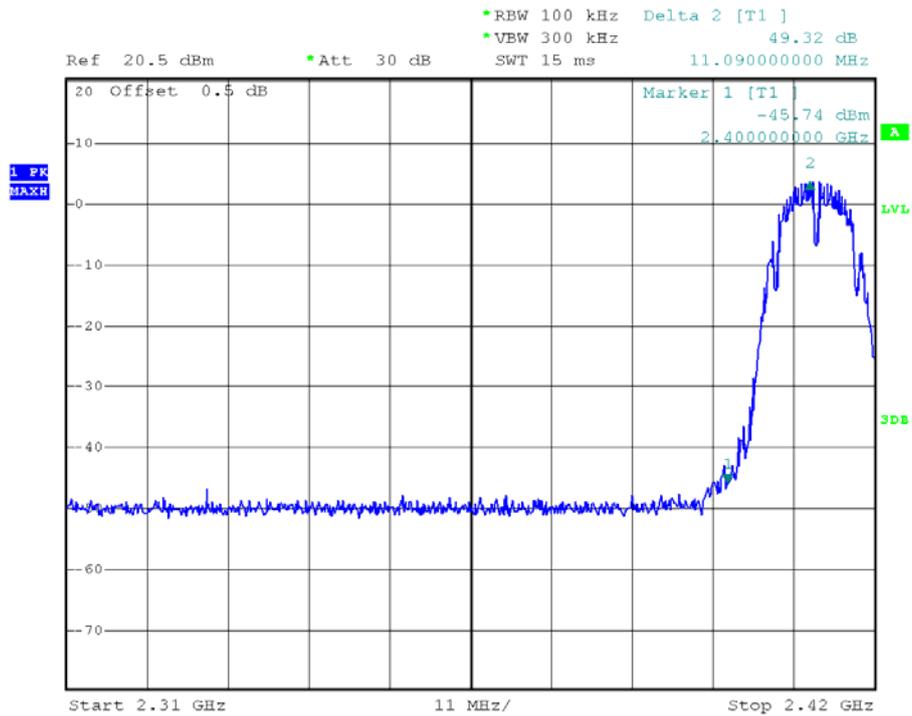


2.4.4. Test Procedure

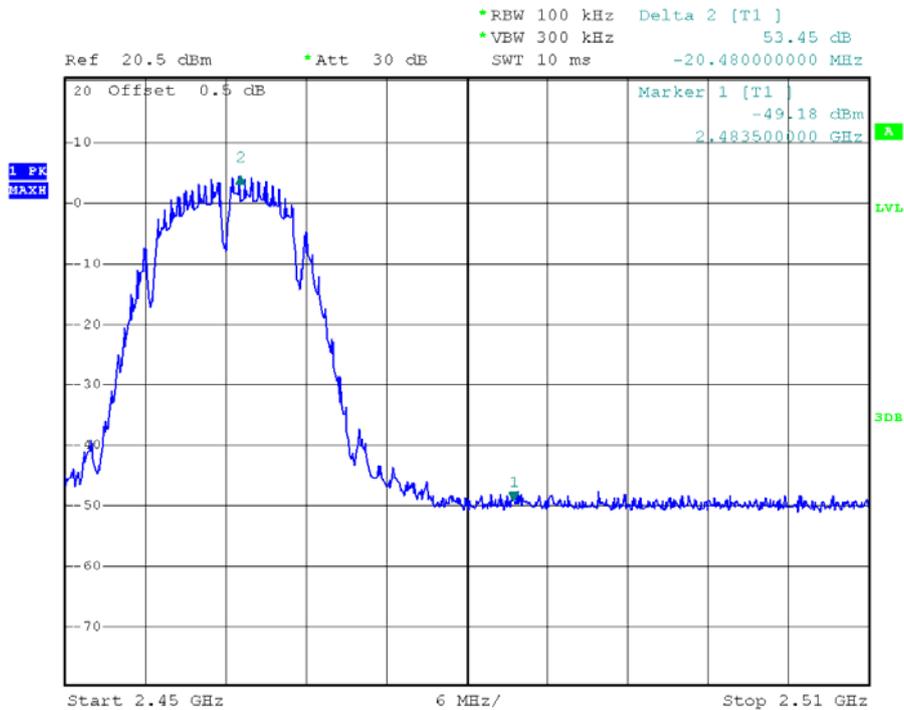
1. The testing follows FCC KDB558074 D01 v03r05.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. 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 per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



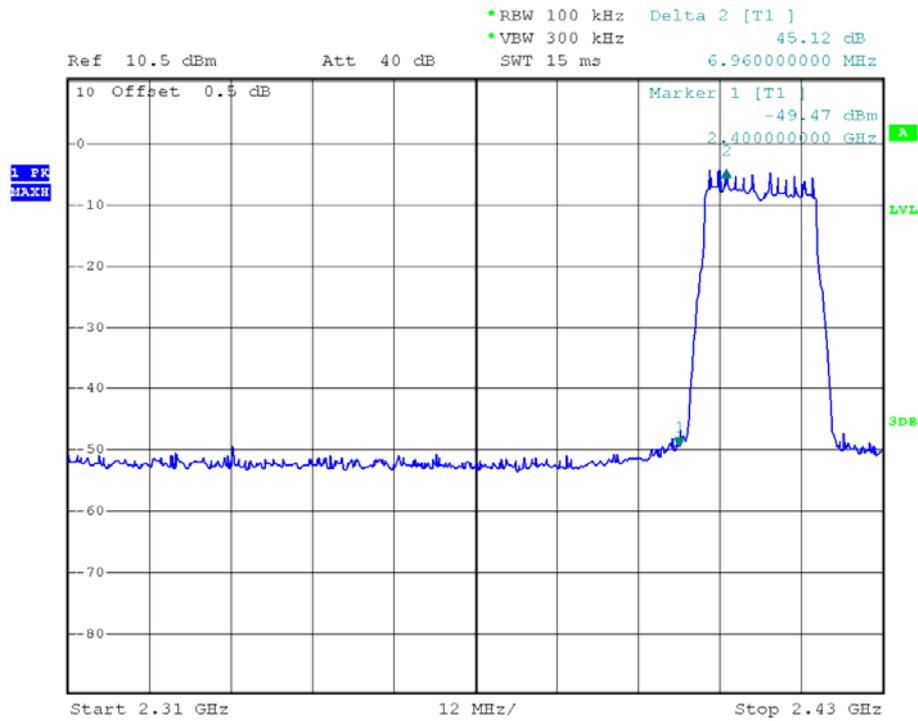
2.4.5. Test Results of Conducted Band Edges



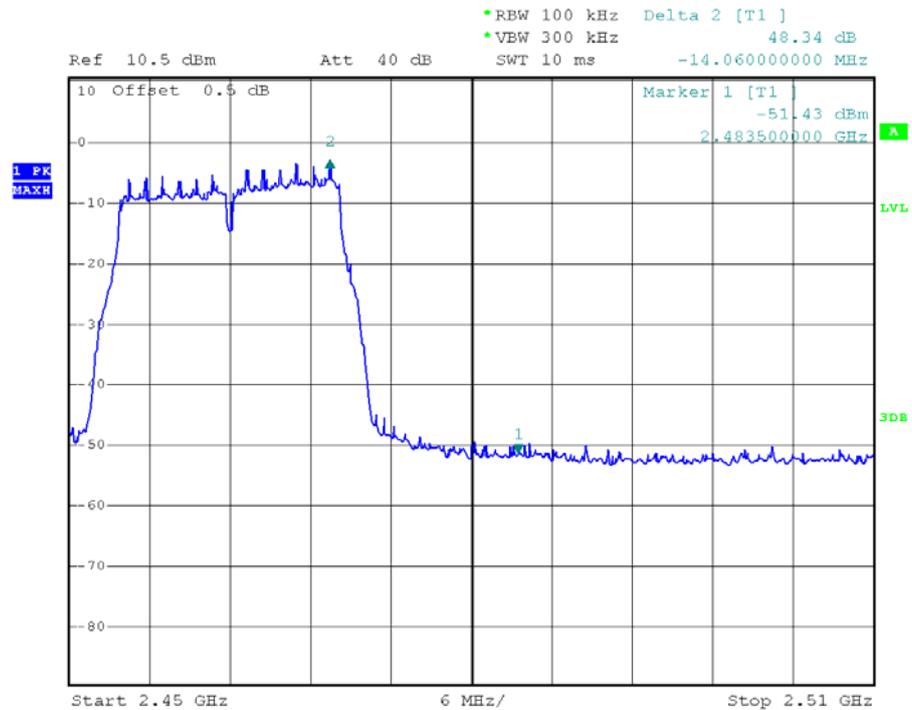
802.11b - Low Band Edge Plot on Channel 1



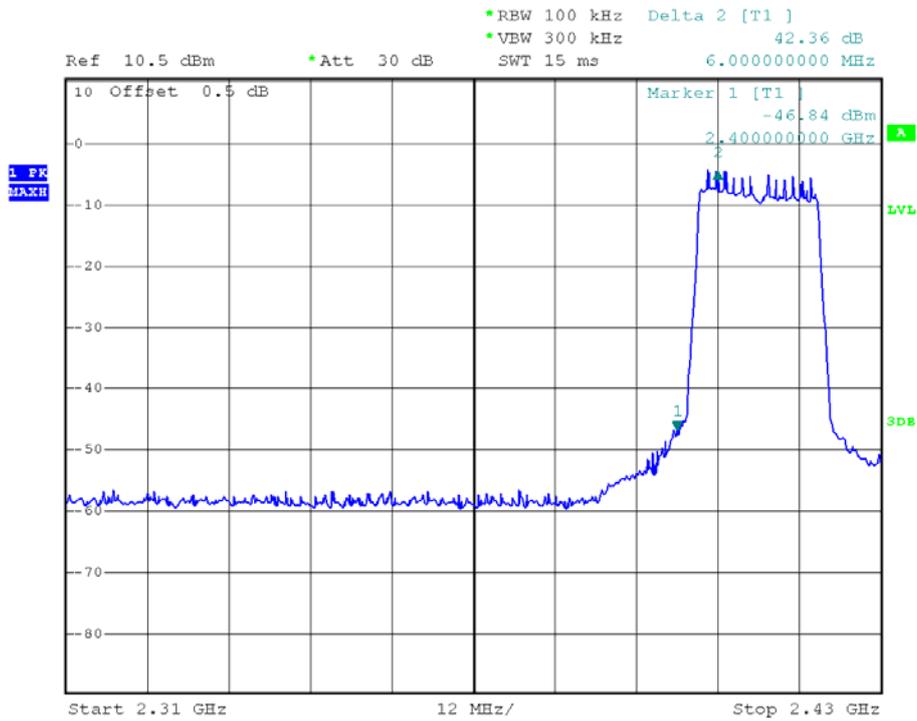
802.11b - High Band Edge Plot on Channel 11



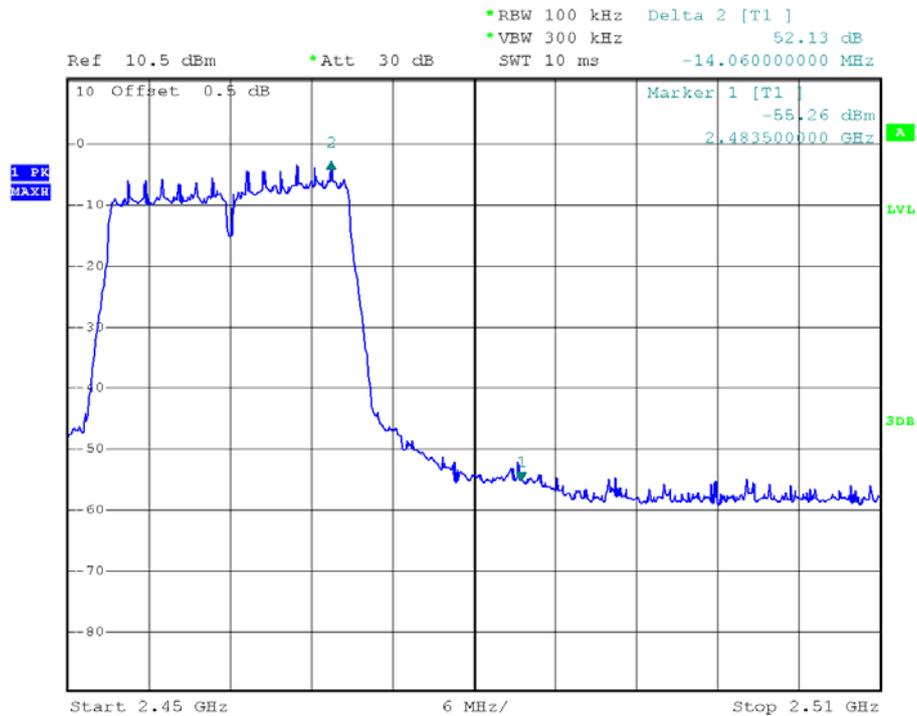
802.11g - Low Band Edge Plot on Channel 1



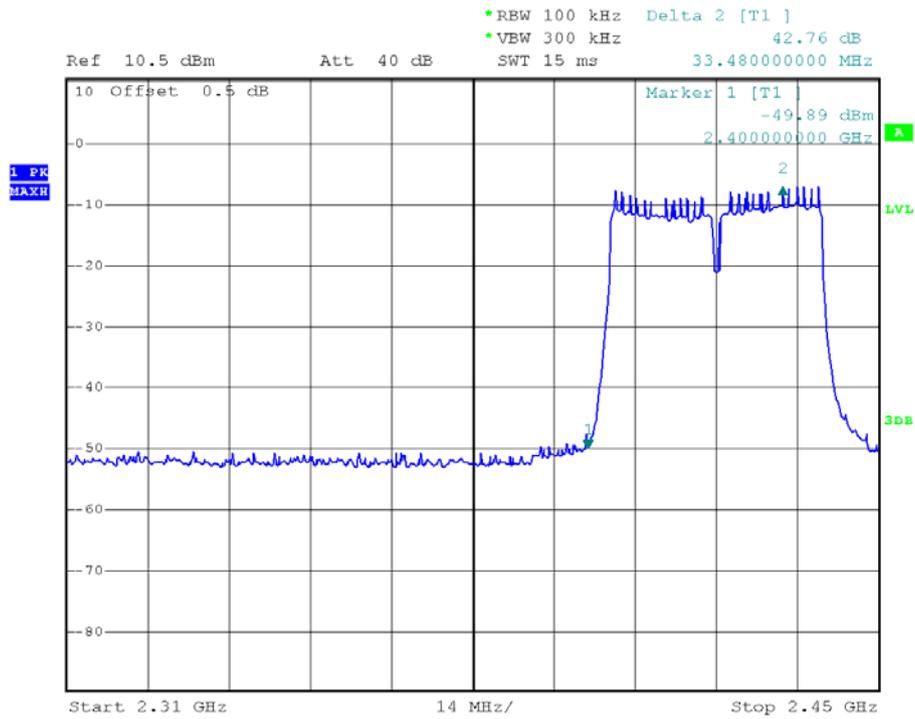
802.11g - High Band Edge Plot on Channel 11



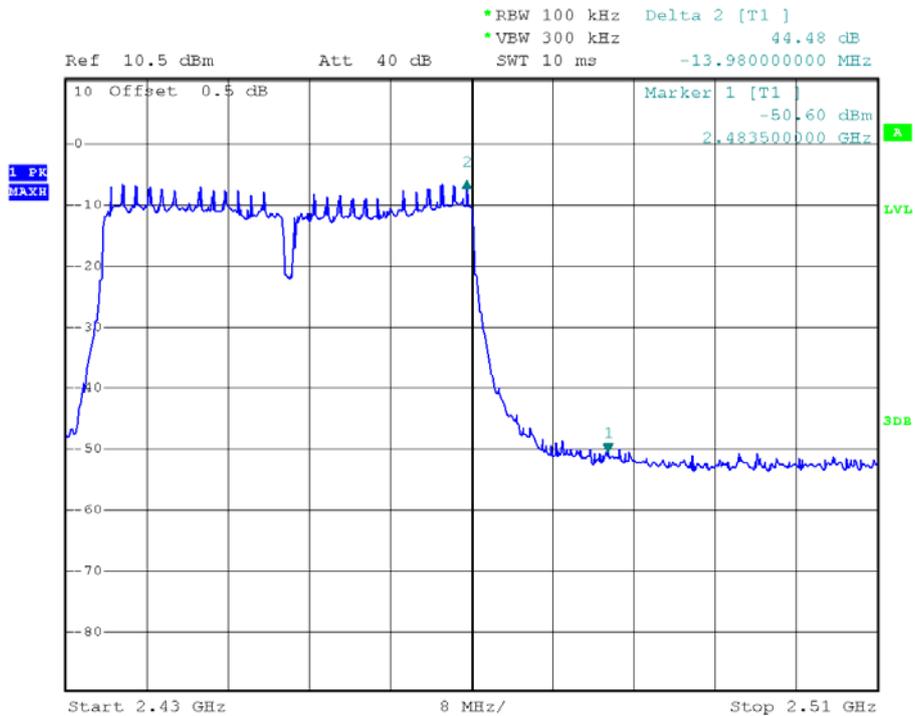
802.11n20 - Low Band Edge Plot on Channel 1



802.11n20 - High Band Edge Plot on Channel 11



802.11n40 - Low Band Edge Plot on Channel 3

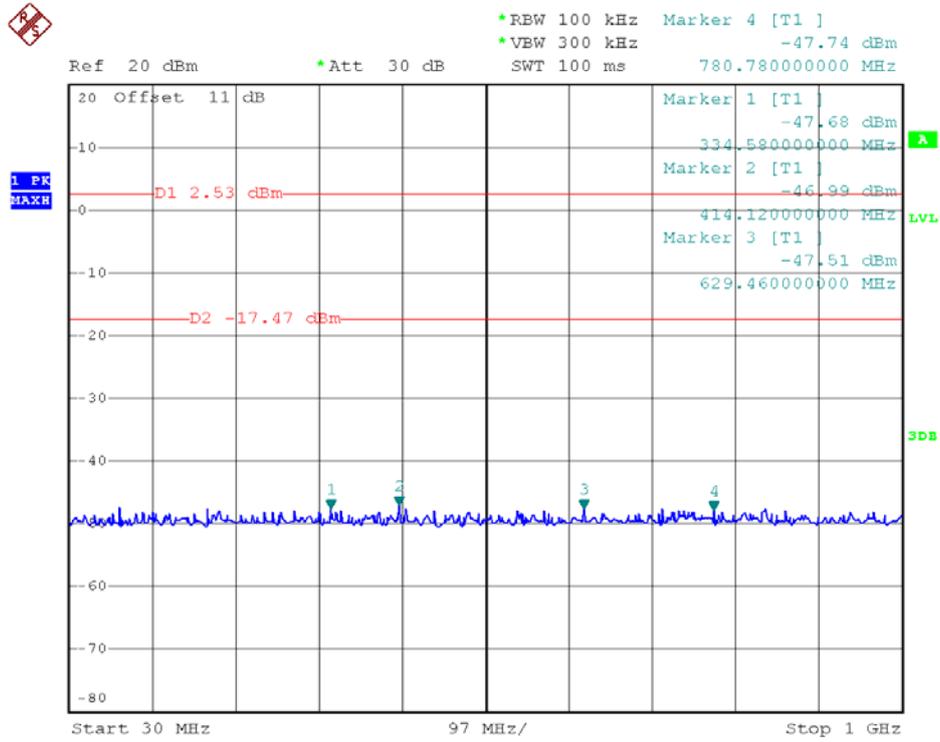


802.11n40 - High Band Edge Plot on Channel 9

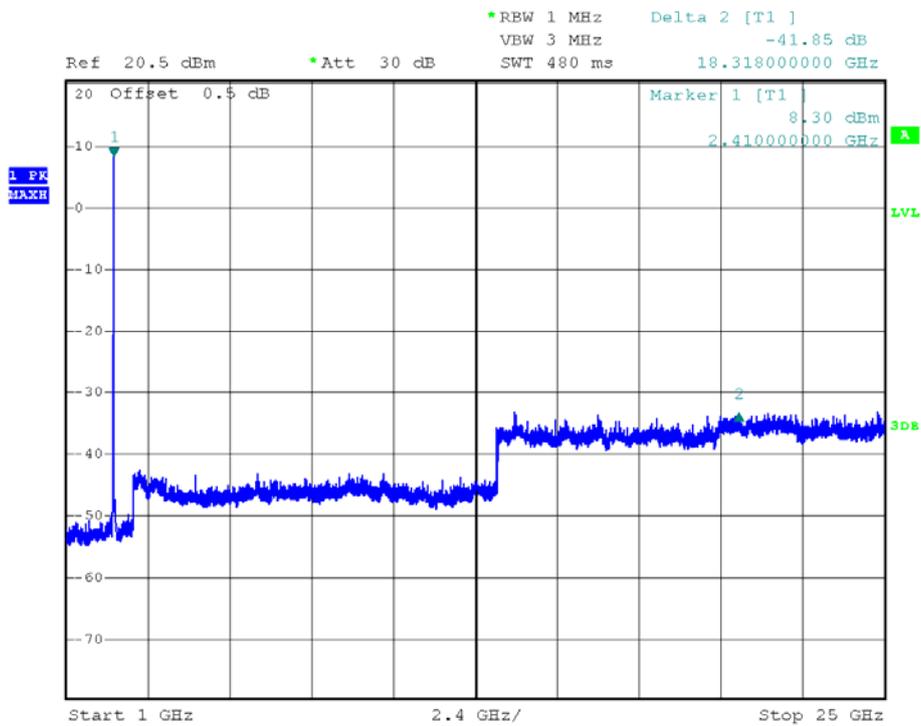


2.4.6. Test Result of Conducted Spurious Emission

802.11b - Conducted Spurious Emission Plot on channel 1



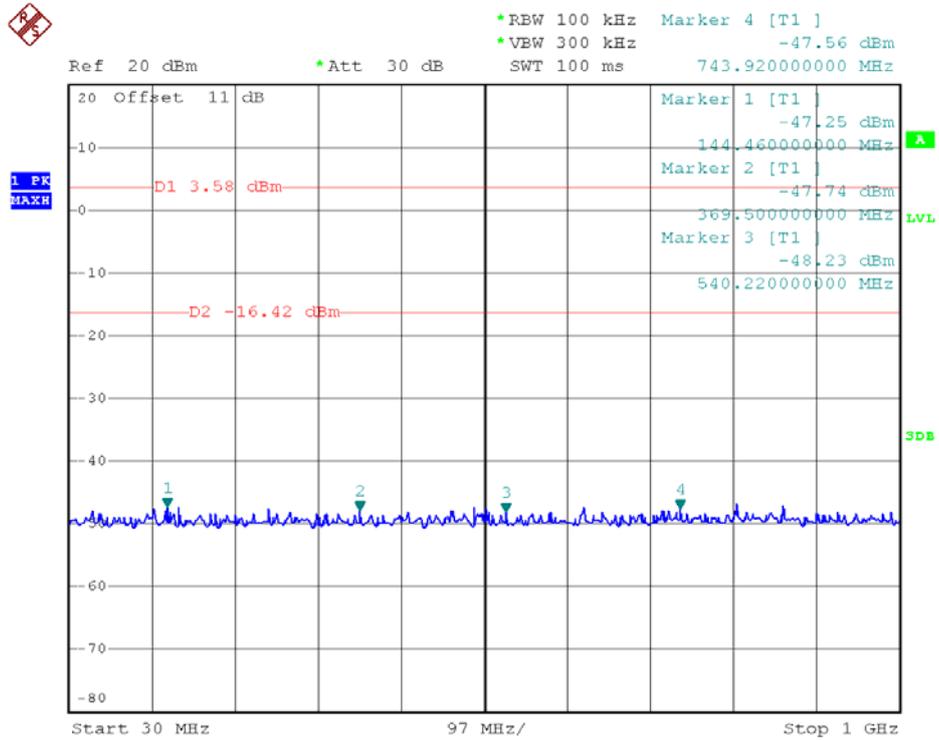
Channel = 1, 30MHz to 1GHz



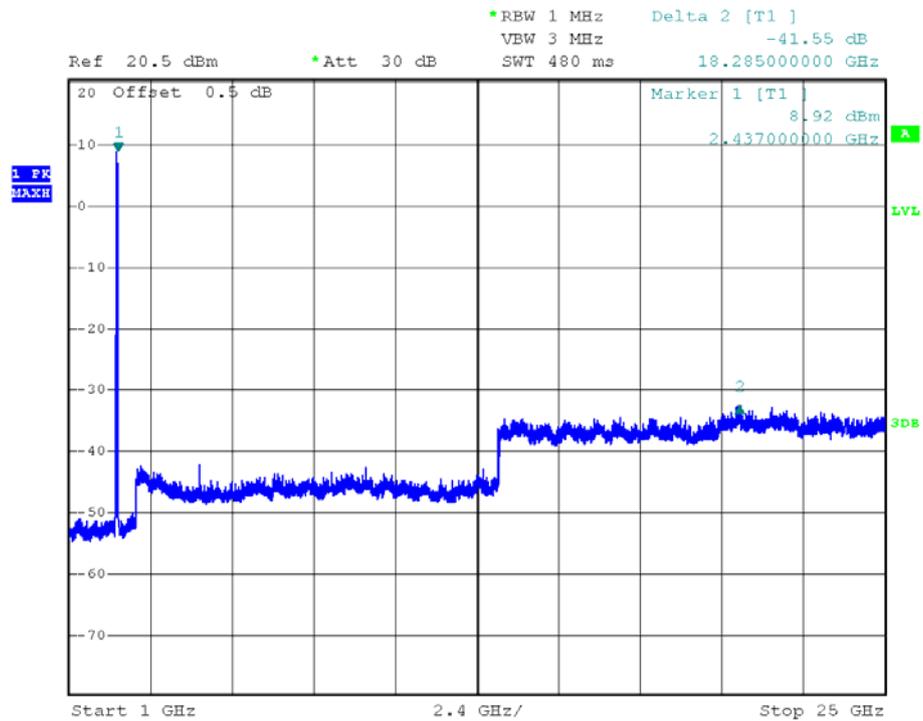
Channel = 1, 1GHz to 25GHz



802.11b - Conducted Spurious Emission Plot on channel 6



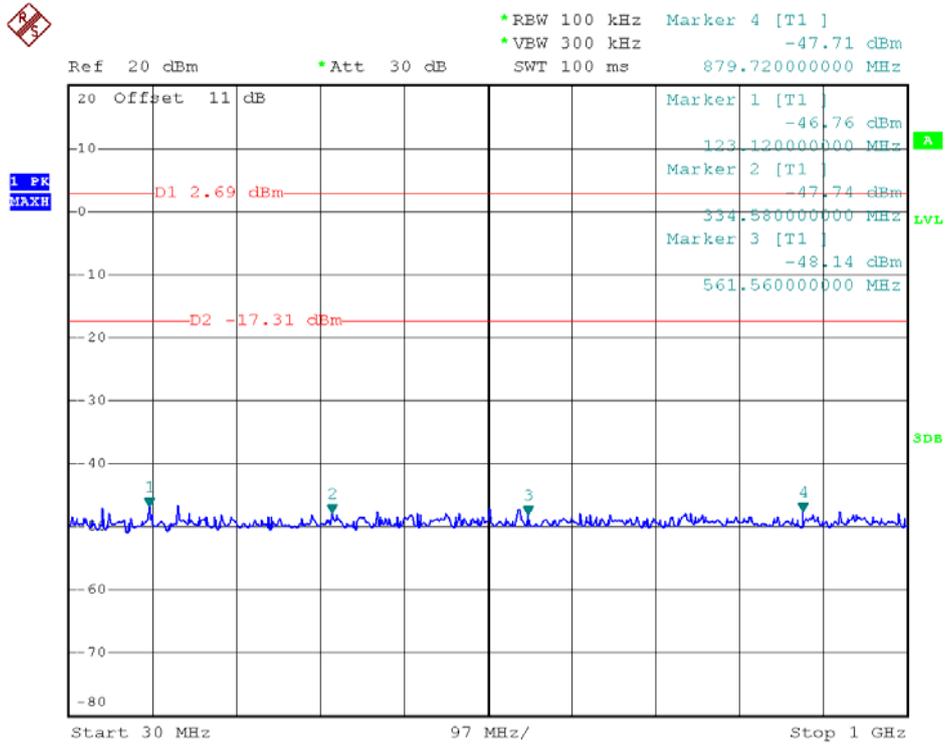
Channel = 6, 30MHz to 1GHz



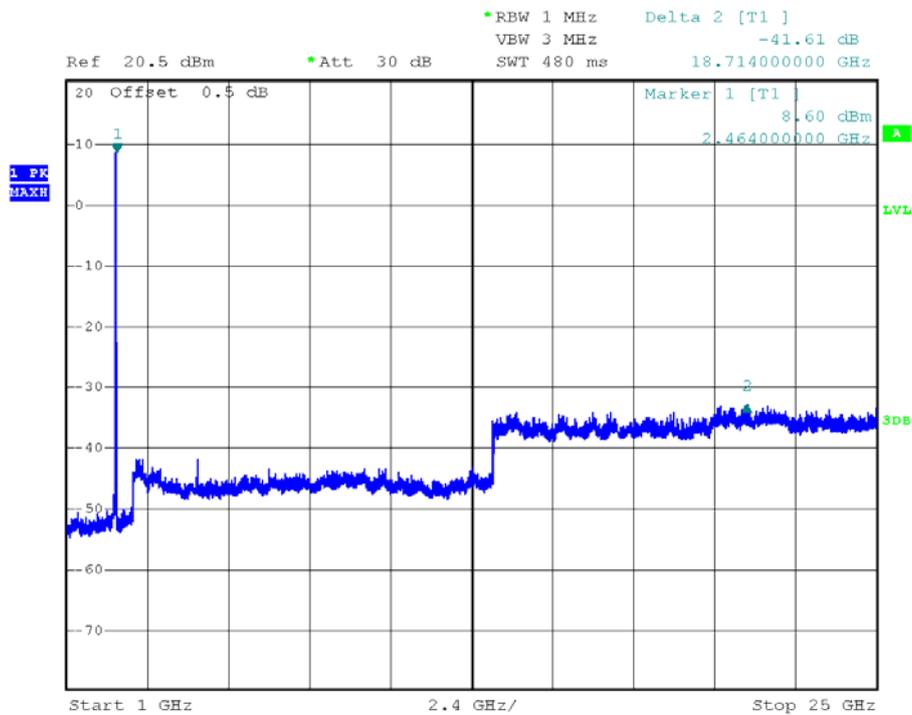
Channel = 6, 1GHz to 25GHz



802.11b - Conducted Spurious Emission Plot on channel 11

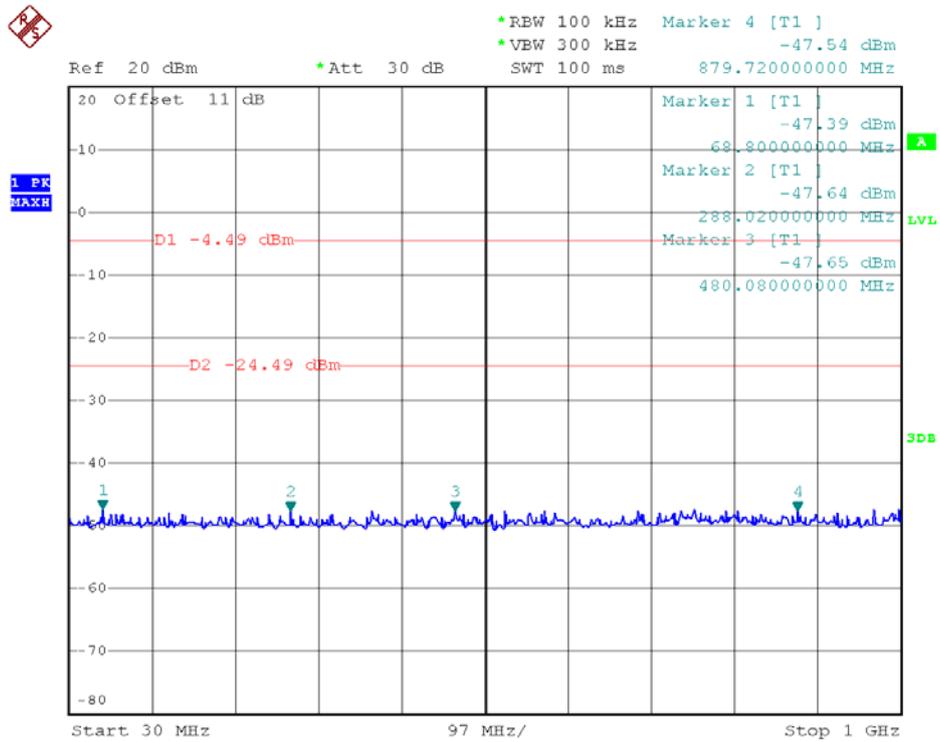


Channel = 11, 30MHz to 25GHz

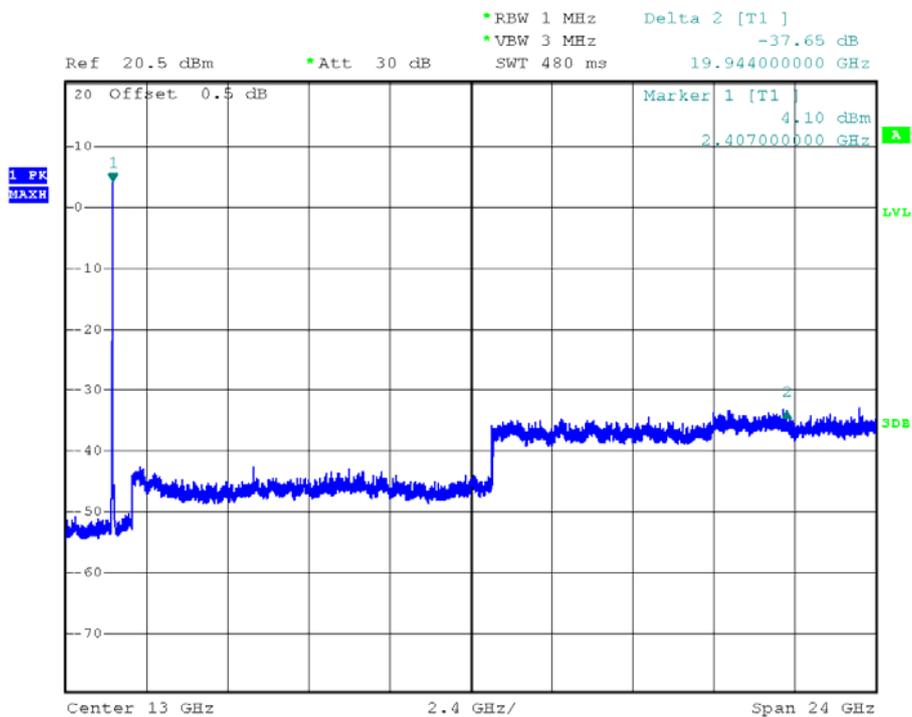


Channel = 11, 30MHz to 25GHz

802.11g - Conducted Spurious Emission Plot on channel 1



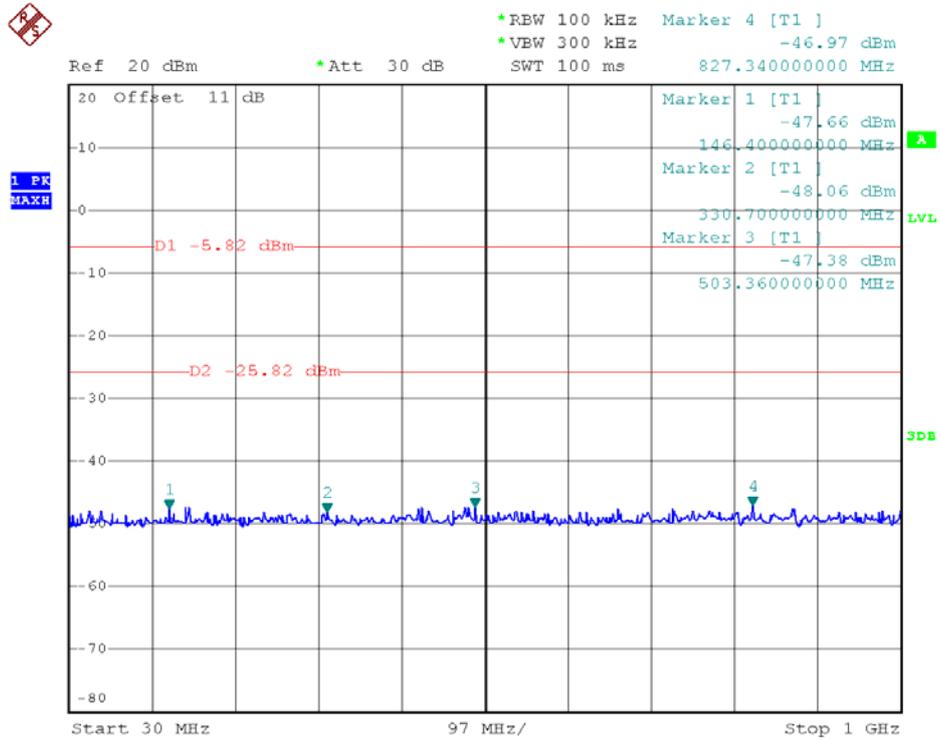
Channel = 1, 30MHz to 1GHz



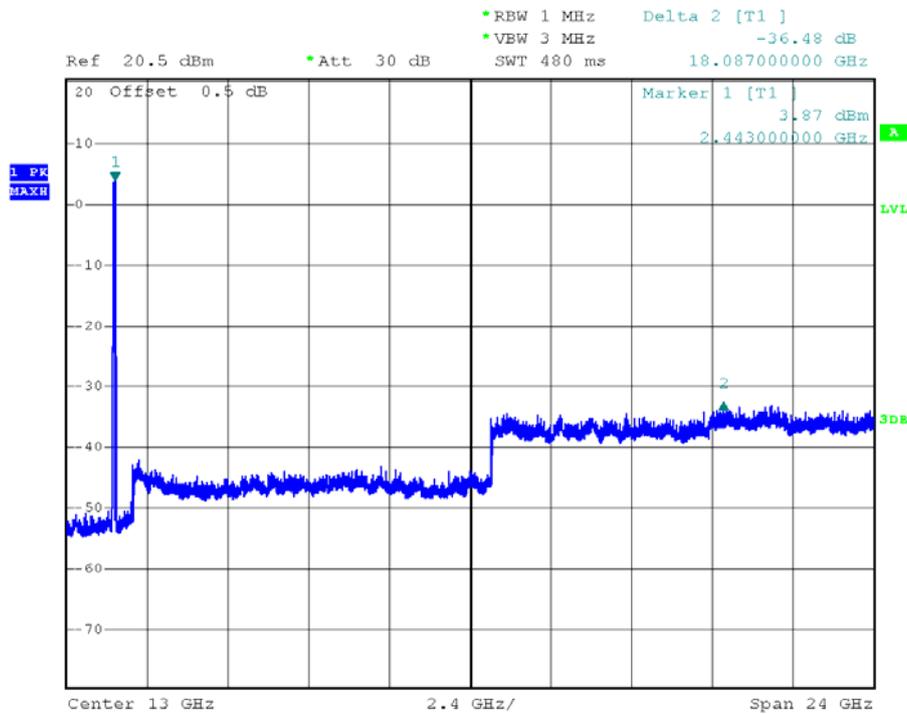
Channel = 1, 1GHz to 25GHz



802.11g - Conducted Spurious Emission Plot on channel 6



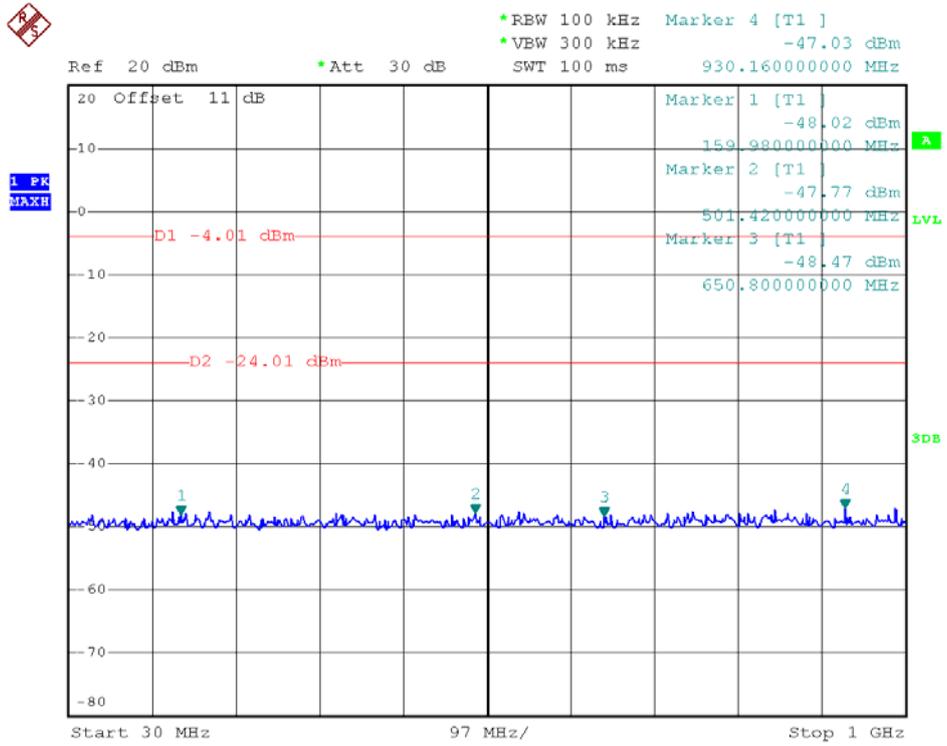
Channel = 6, 30MHz to 1GHz



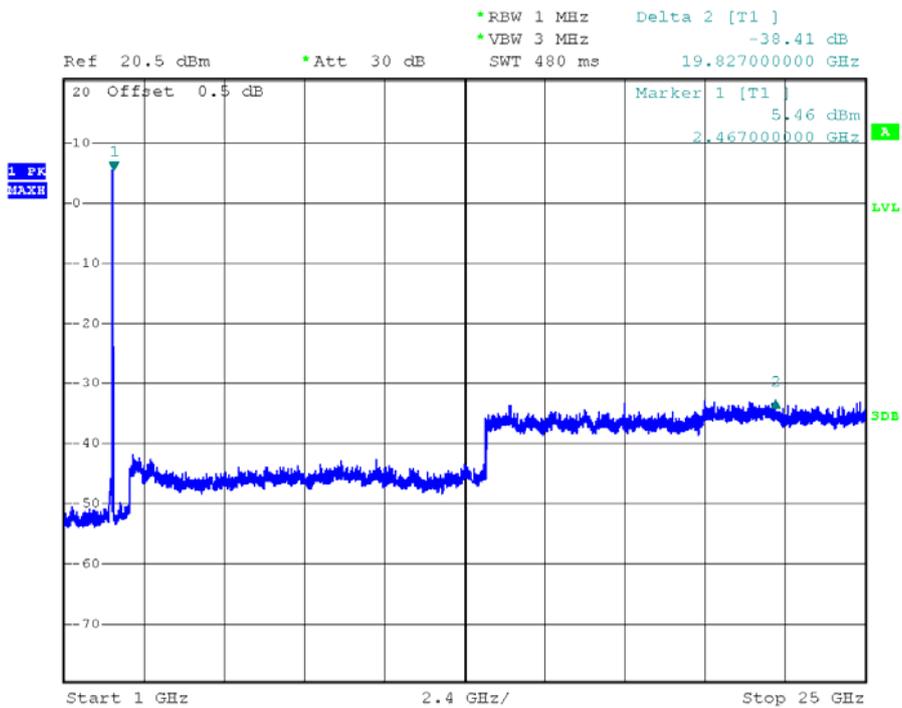
Channel = 6, 1GHz to 25GHz



802.11g - Conducted Spurious Emission Plot on channel 11



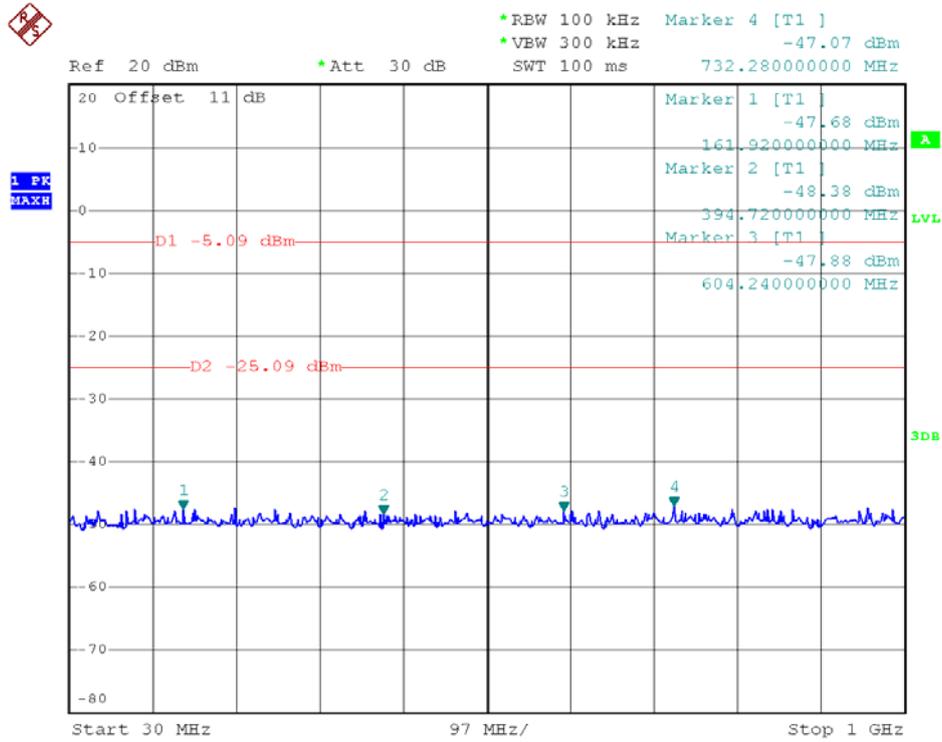
Channel = 11, 30MHz to 25GHz



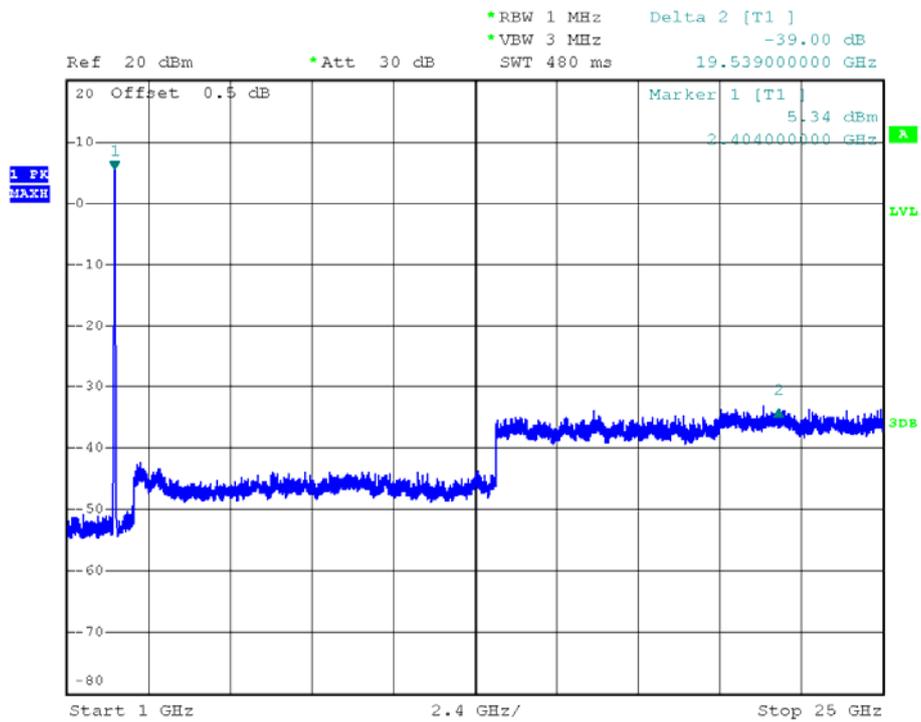
Channel = 11, 30MHz to 25GHz



802.11n20 - Conducted Spurious Emission Plot on channel 1



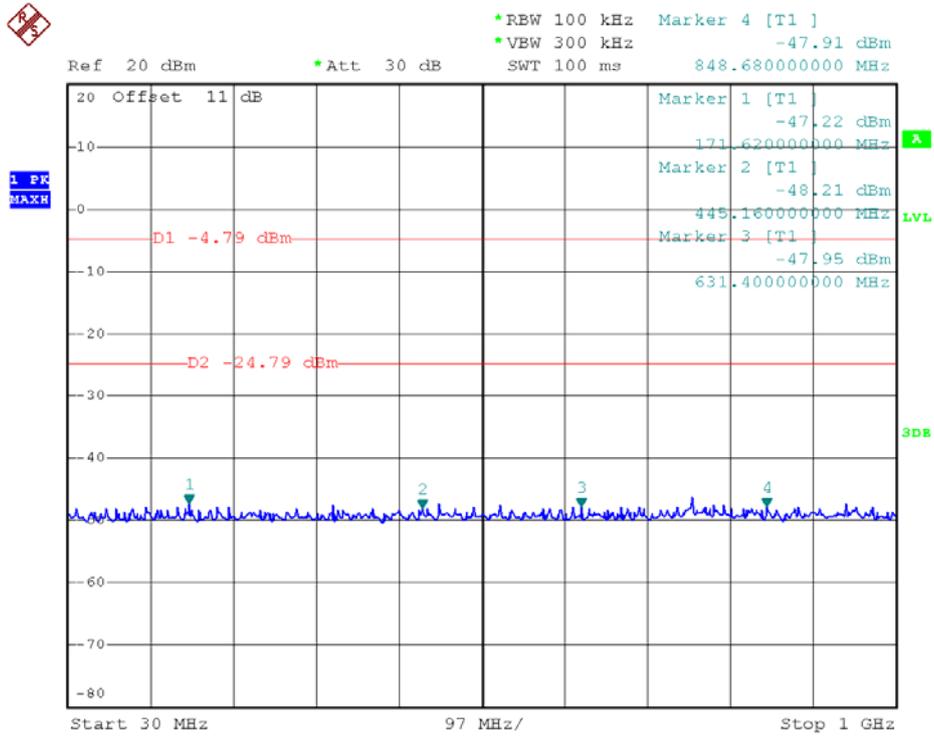
Channel = 1, 30MHz to 1GHz



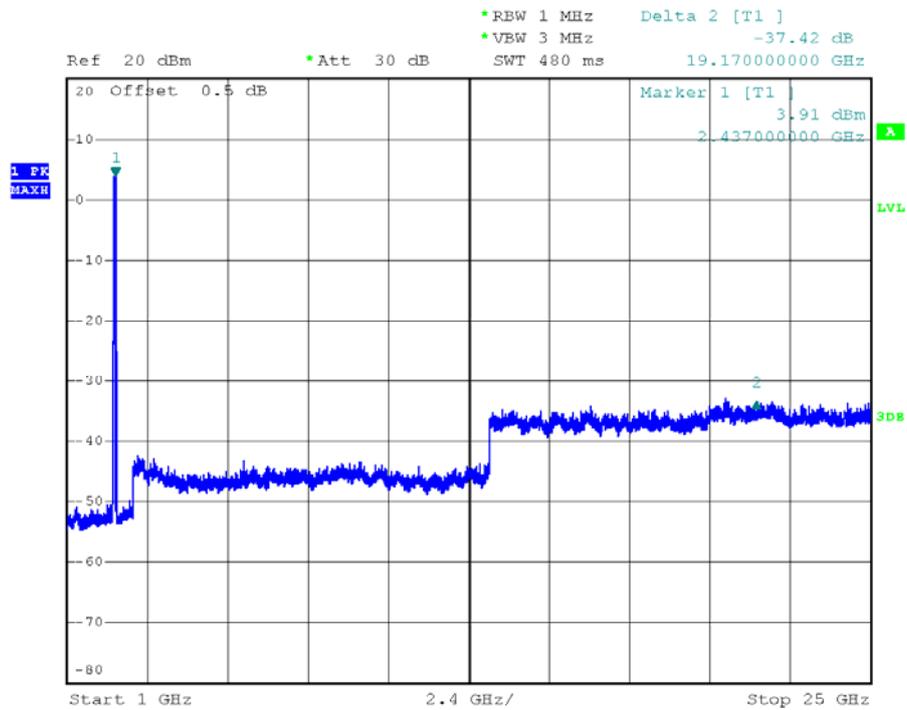
Channel = 1, 1GHz to 25GHz



802.11n20 - Conducted Spurious Emission Plot on channel 6



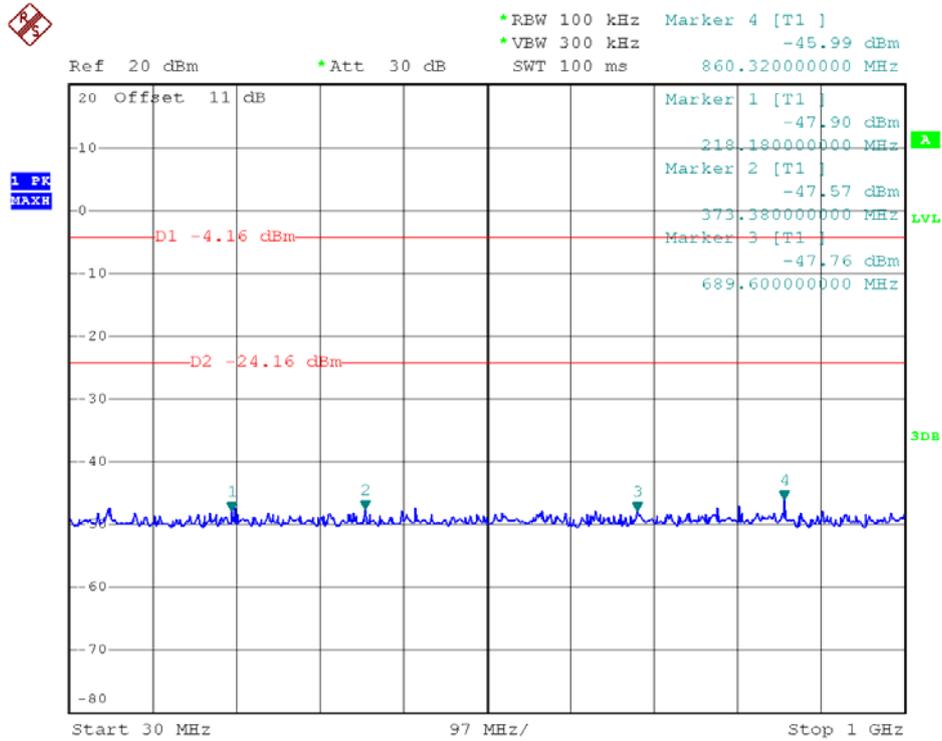
Channel = 6, 30MHz to 1GHz



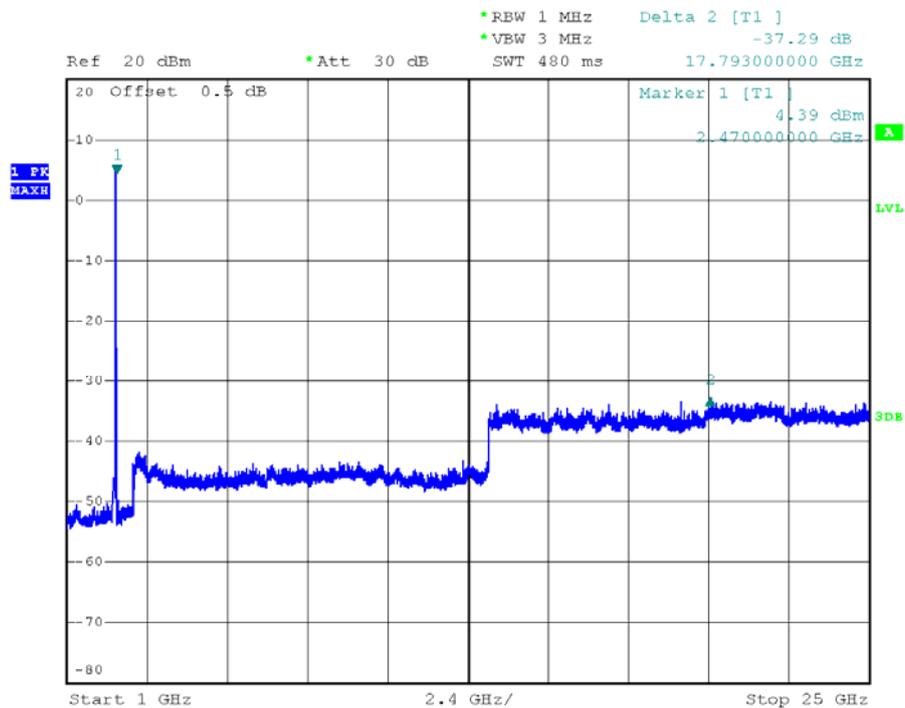
Channel = 6, 1GHz to 25GHz



802.11n20 - Conducted Spurious Emission Plot on channel 11



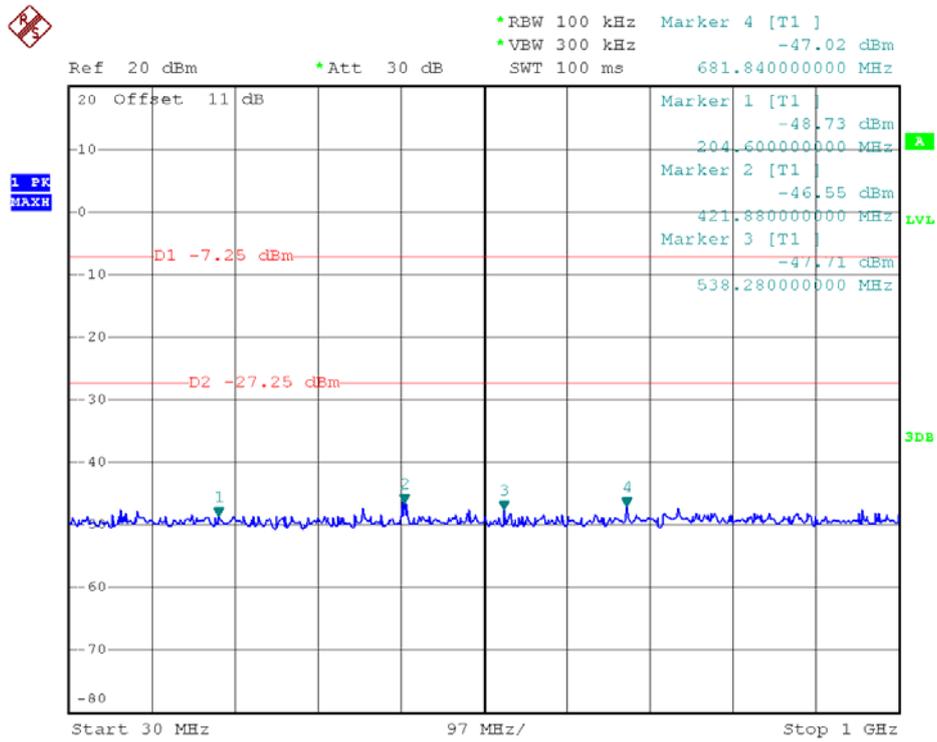
Channel = 11, 30MHz to 25GHz



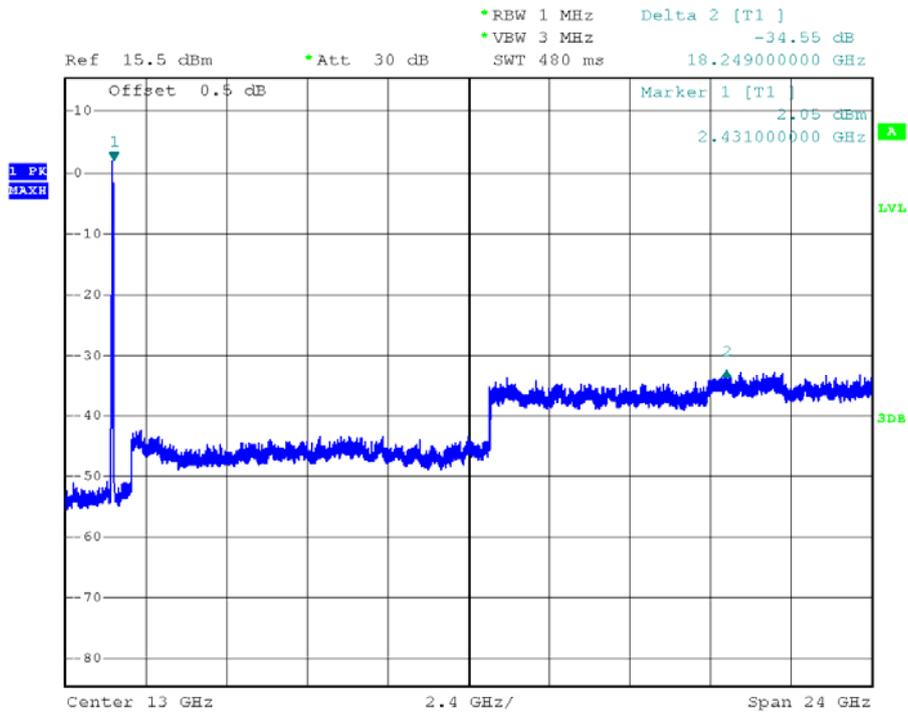
Channel = 11, 30MHz to 25GHz



802.11n40 - Conducted Spurious Emission Plot on channel 3



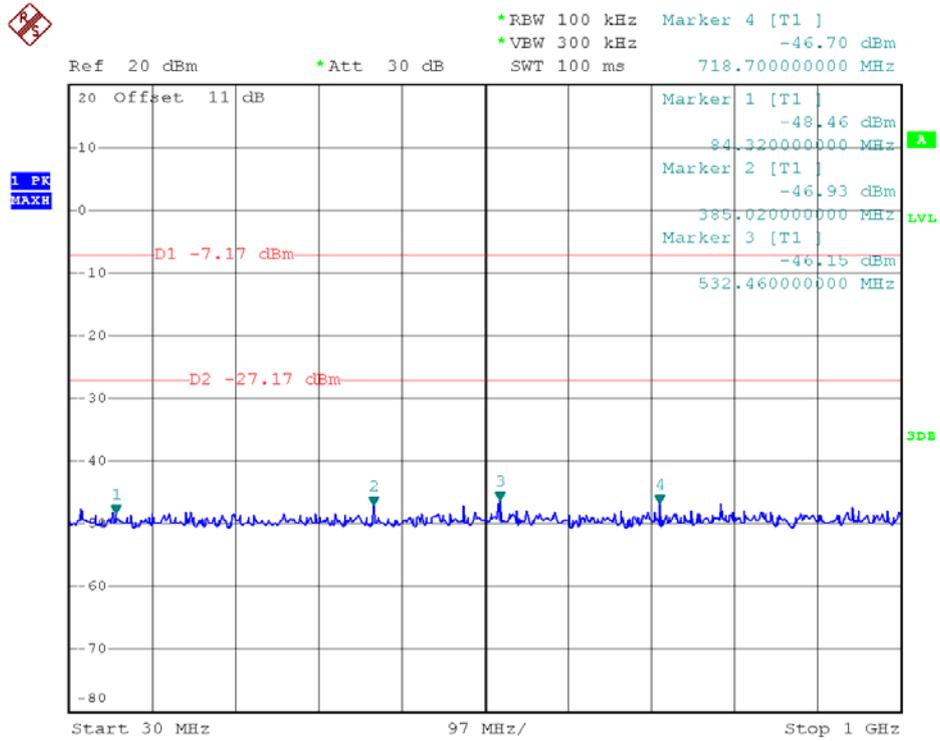
Channel = 3, 30MHz to 1GHz



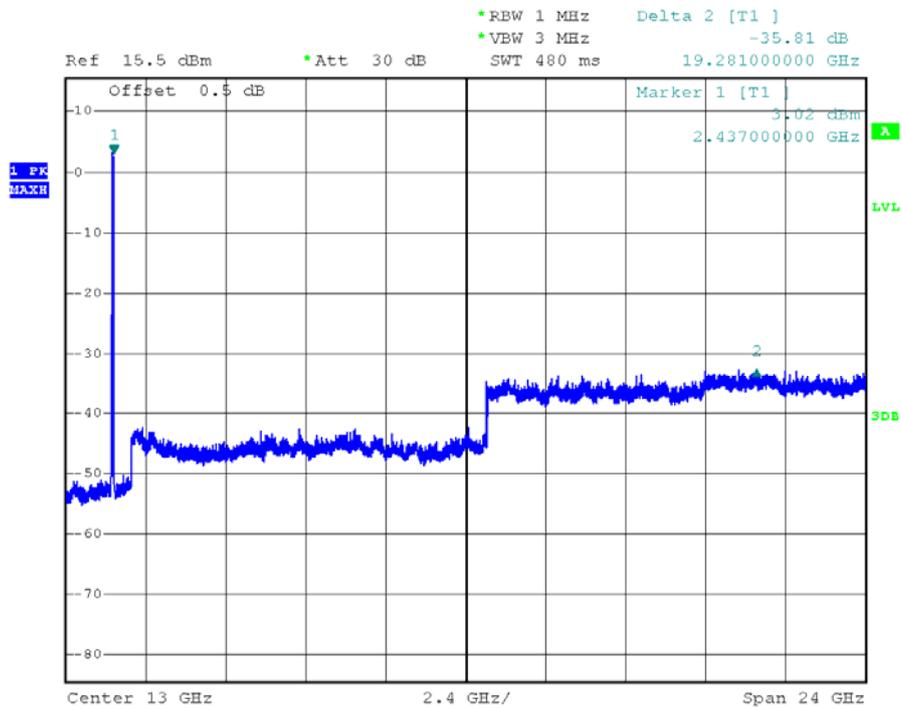
Channel = 3, 1GHz to 25GHz



802.11n40 - Conducted Spurious Emission Plot on channel 6

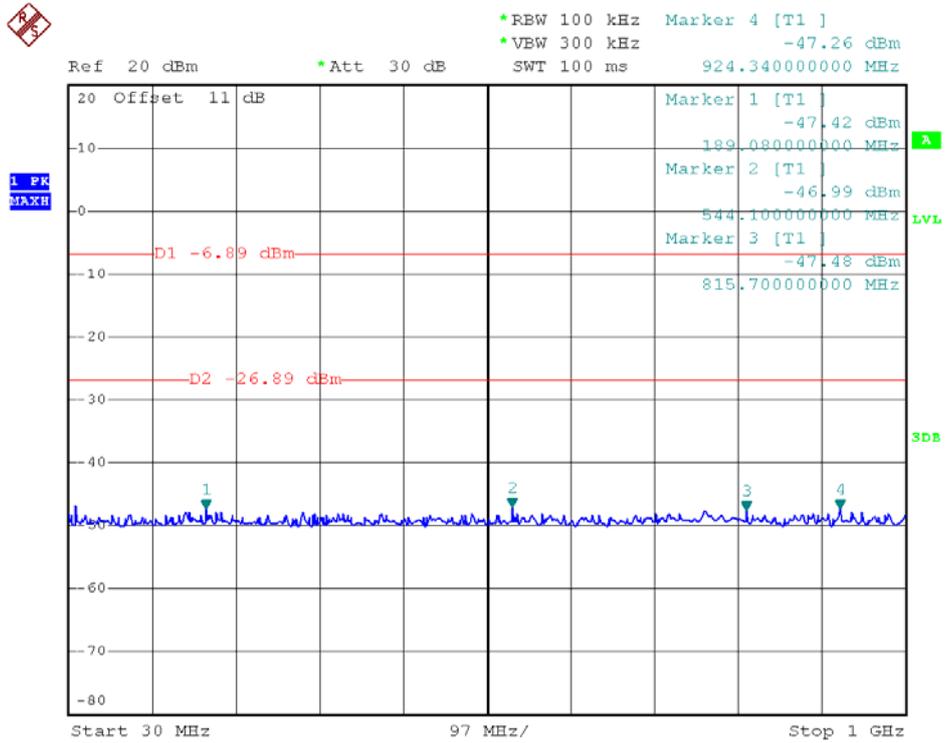


Channel = 6, 30MHz to 1GHz

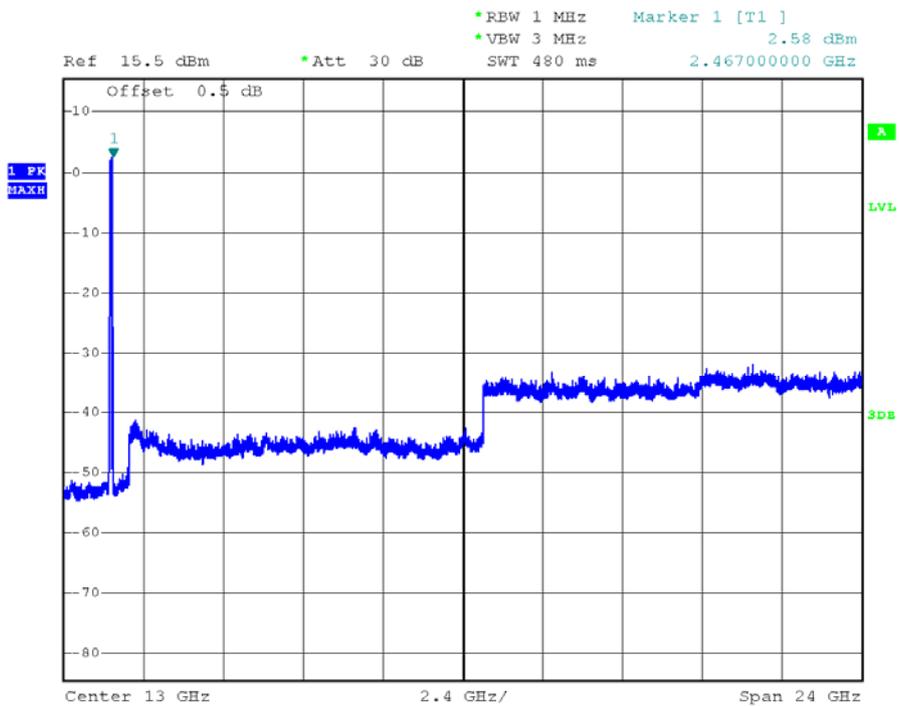


Channel = 6, 1GHz to 25GHz

802.11n40 - Conducted Spurious Emission Plot on channel 9



Channel = 9, 30MHz to 25GHz



Channel = 9, 30MHz to 25GHz

2.5. Power spectral density (PSD)

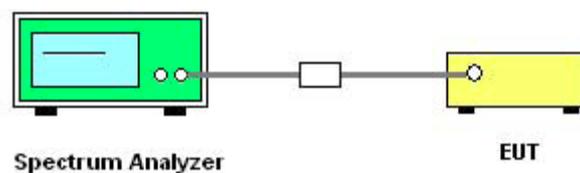
2.5.1. Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

2.5.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.5.3. Test Setup



2.5.4. Test Procedures

1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB558074 D01 v03r05.

2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

3. Set to the maximum power setting and enable the EUT transmit continuously.

4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz.

Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)

5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.

6. Measure and record the results in the test report.

7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

2.5.5. Test Results of Power spectral density

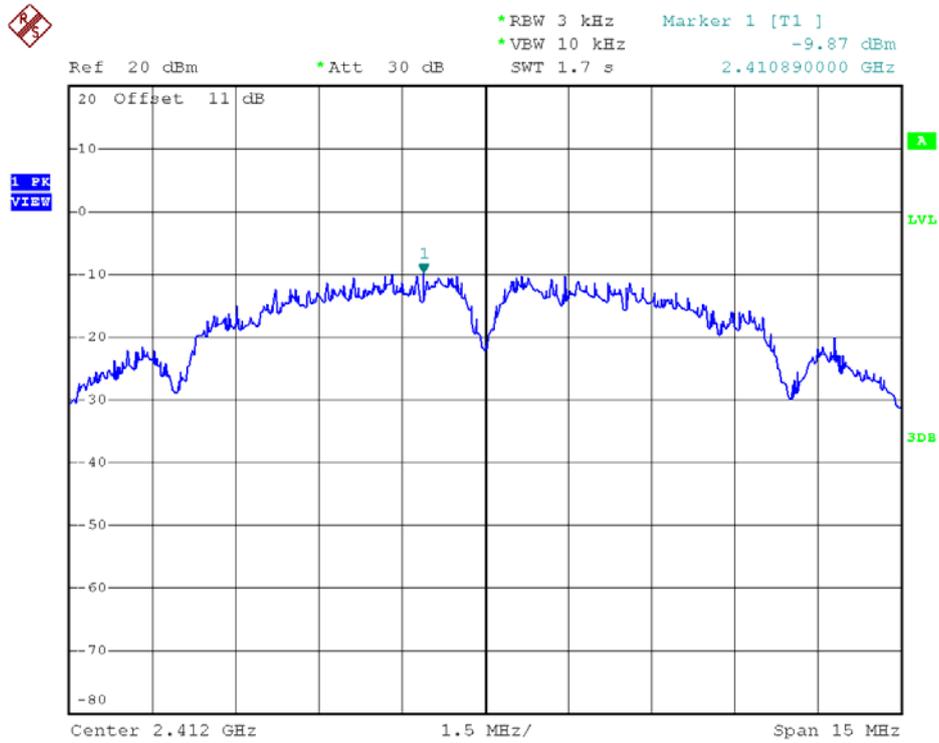
Spectral power density (dBm)					
Test mode	Channel	Frequency (MHz)	PSD/3kHz (dBm)	Limit (dBm/3kHz)	Verdict
802.11b	1	2412	-9.87	8	PASS
	6	2437	-10.25		PASS
	11	2462	-9.00		PASS
802.11g	1	2412	-18.06		PASS
	6	2437	-19.12		PASS
	11	2462	-18.60		PASS
802.11n20	1	2412	-19.60		PASS
	6	2437	-18.76		PASS
	11	2462	-17.65		PASS
802.11n40	3	2422	-21.82		PASS
	6	2437	-21.30		PASS
	9	2452	-21.22		PASS

Measurement uncertainty: $\pm 1.3\text{dB}$

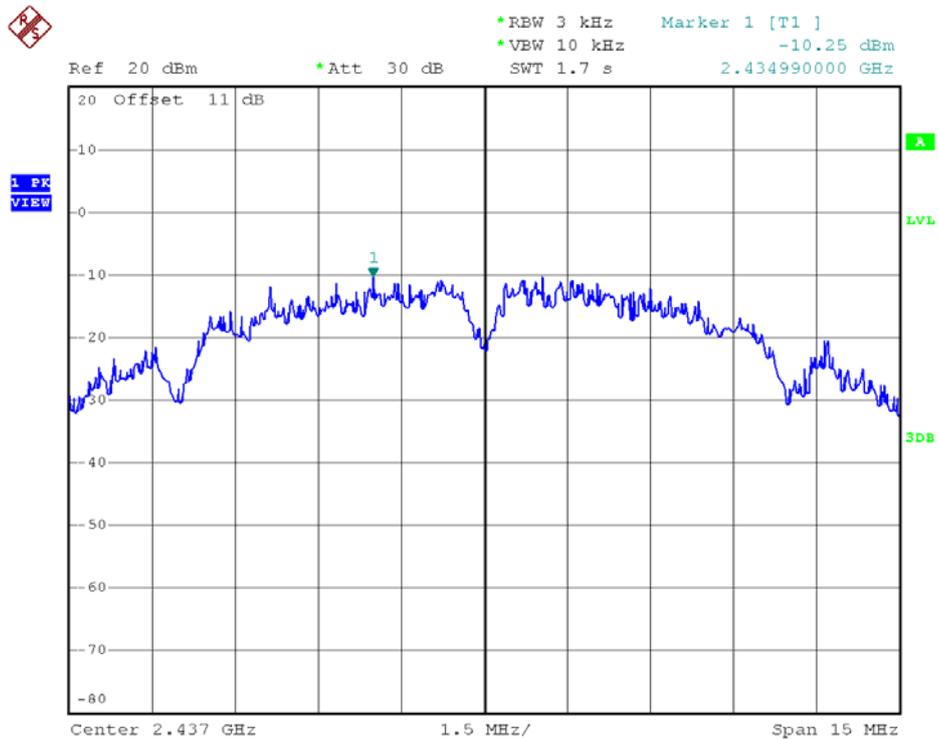
Note:

1. Measured power density (dBm) has offset with cable loss.

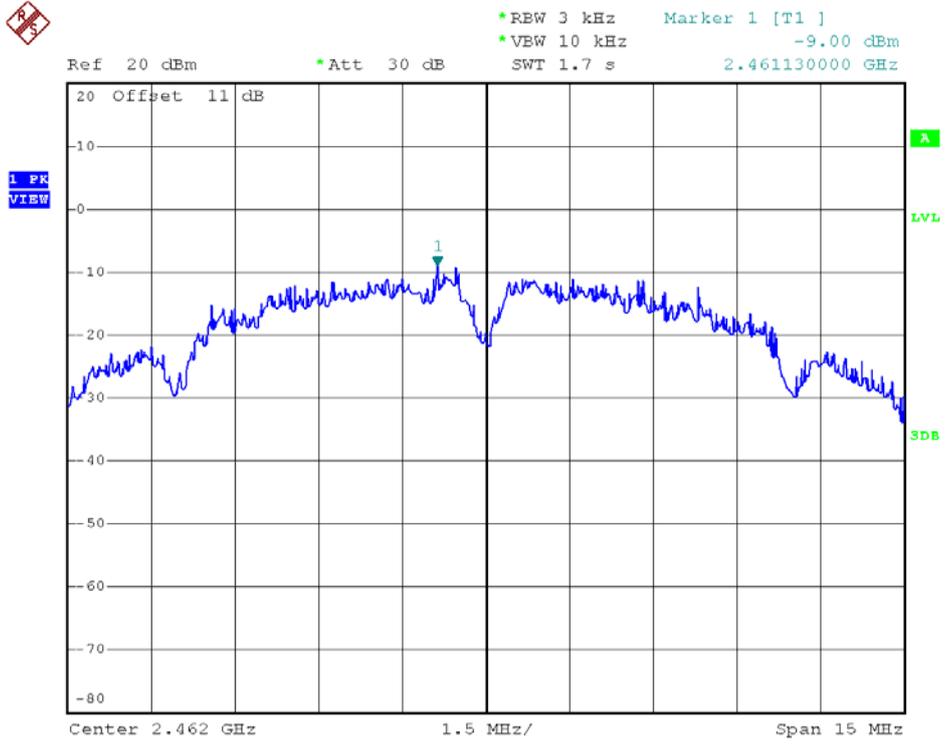
2.5.6. Test Results (plots) of Power spectral density



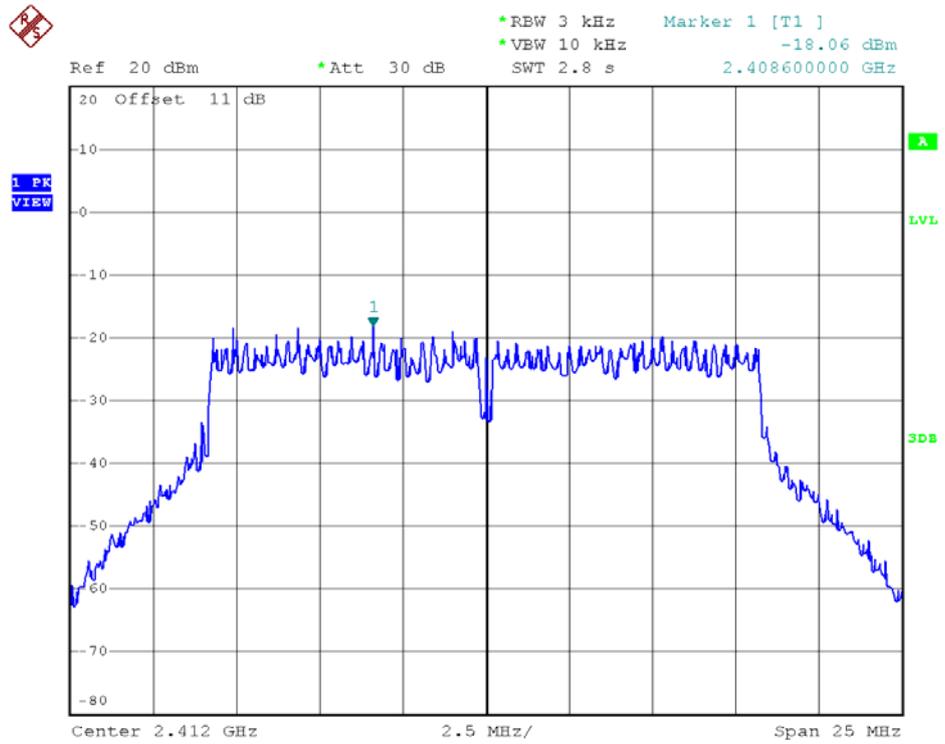
802.11b - Channel 1



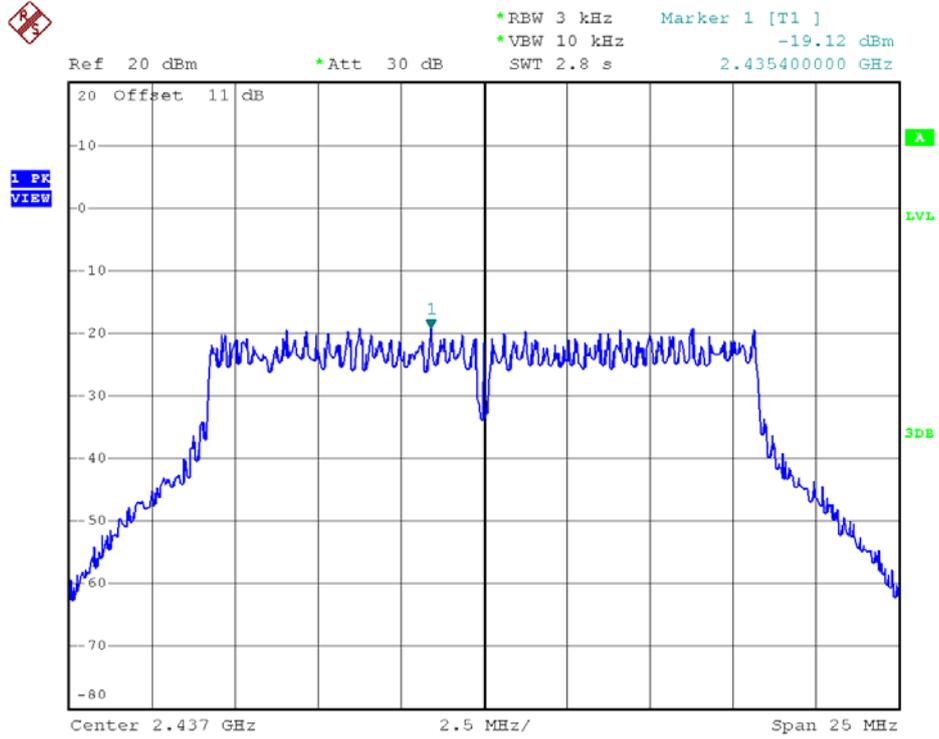
802.11b - Channel 6



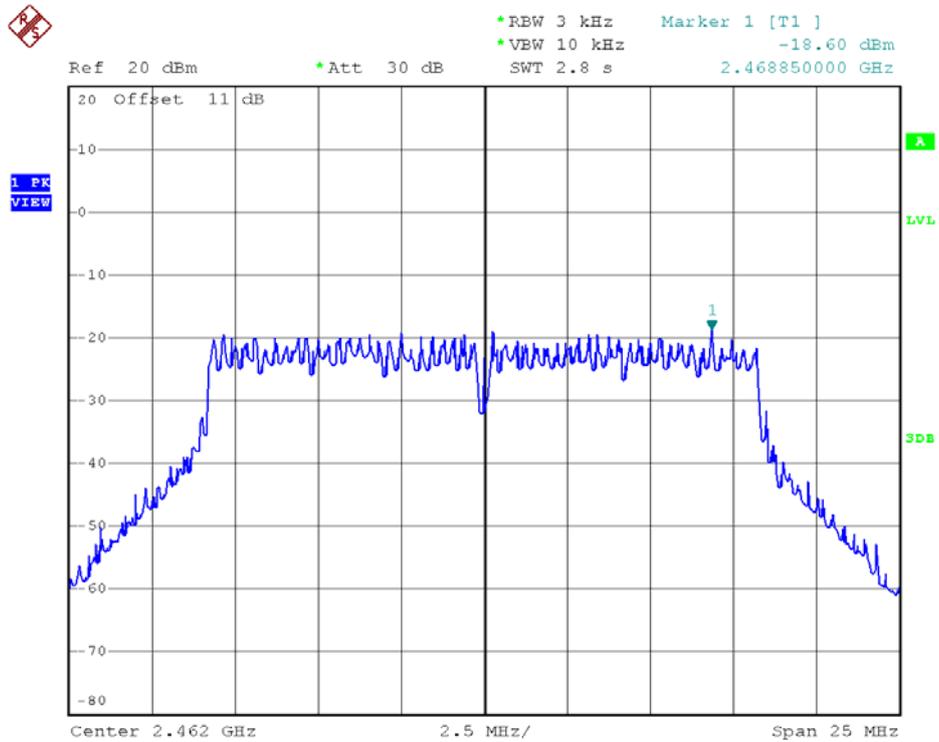
802.11b - Channel 11



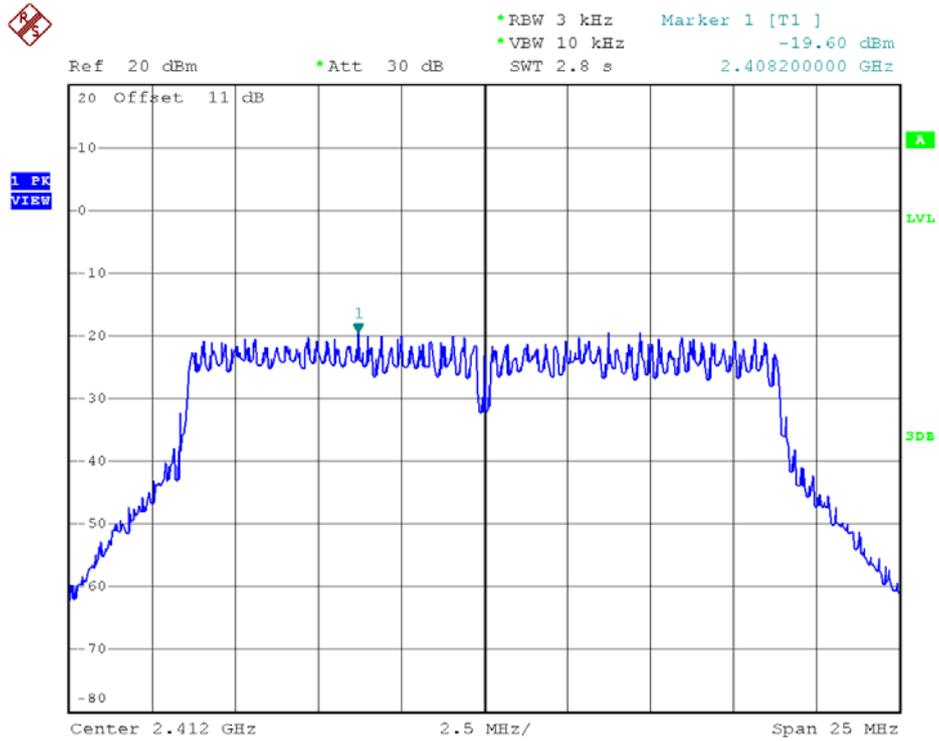
802.11g - Channel 1



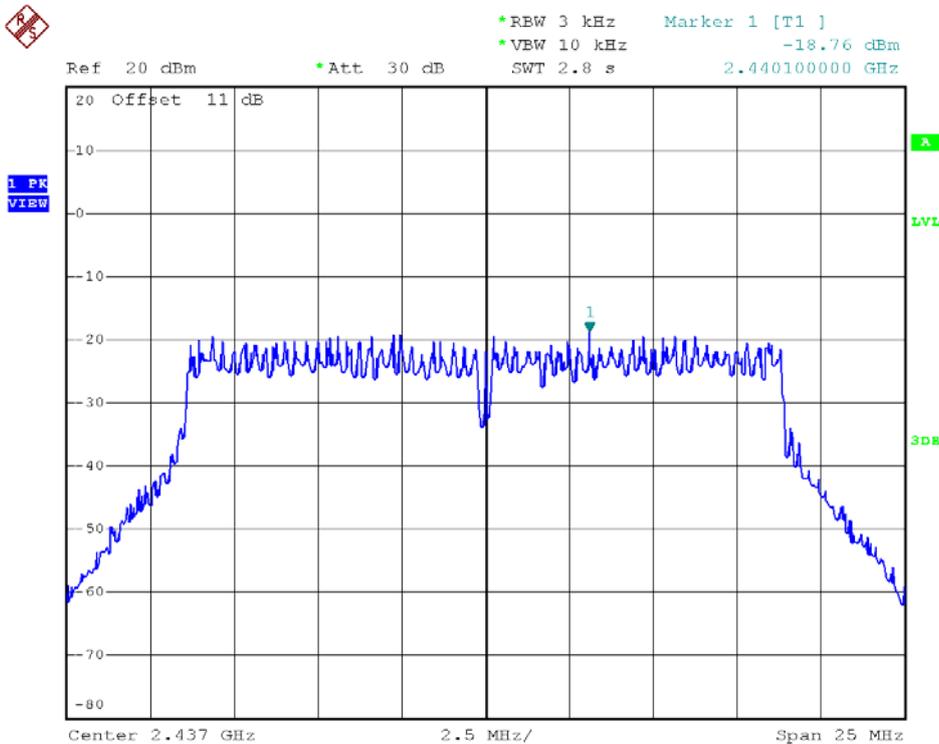
802.11g - Channel 6



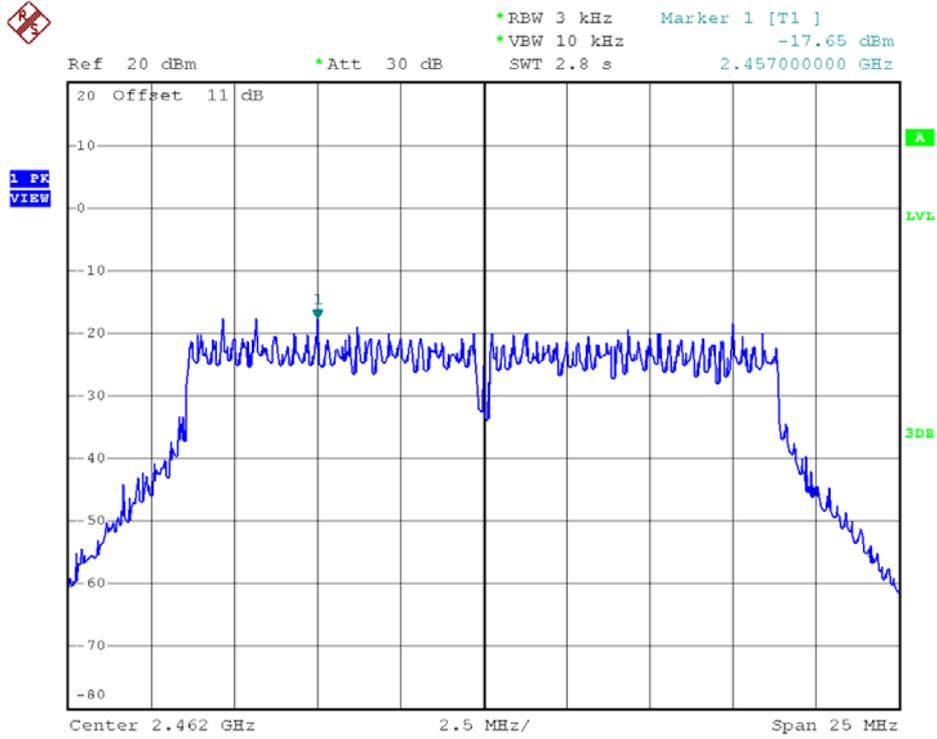
802.11g - Channel 11



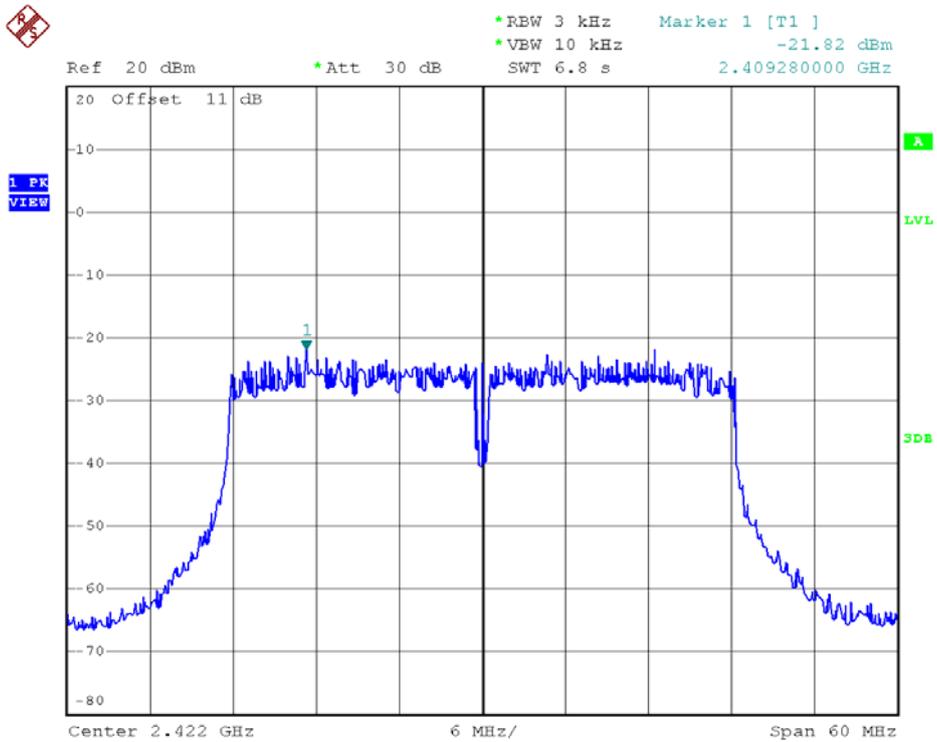
802.11n20 - Channel 1



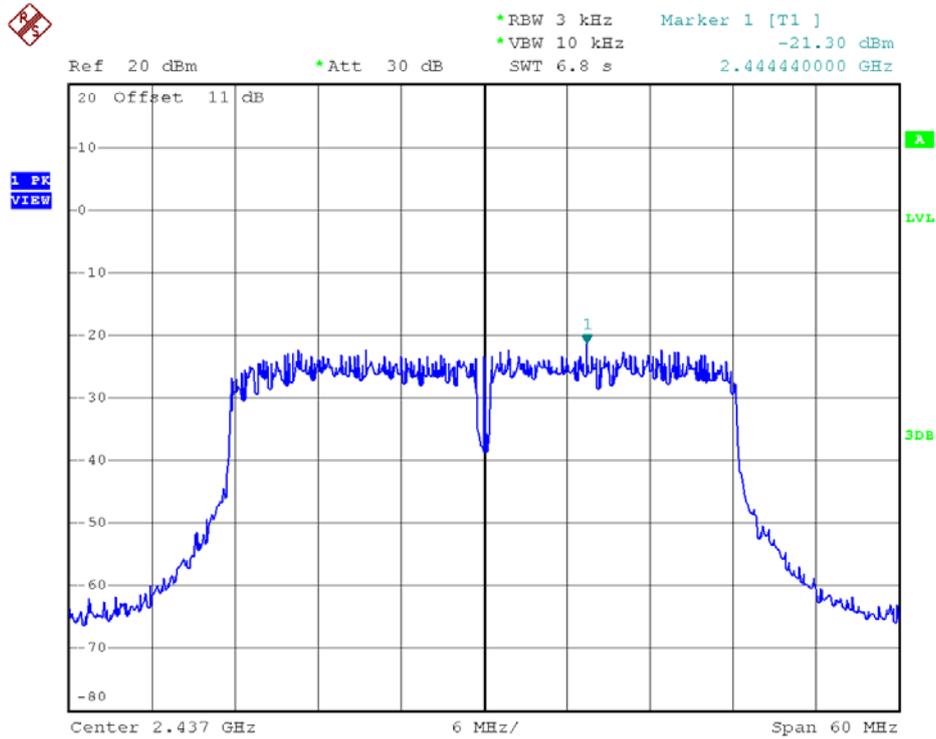
802.11n20 - Channel 6



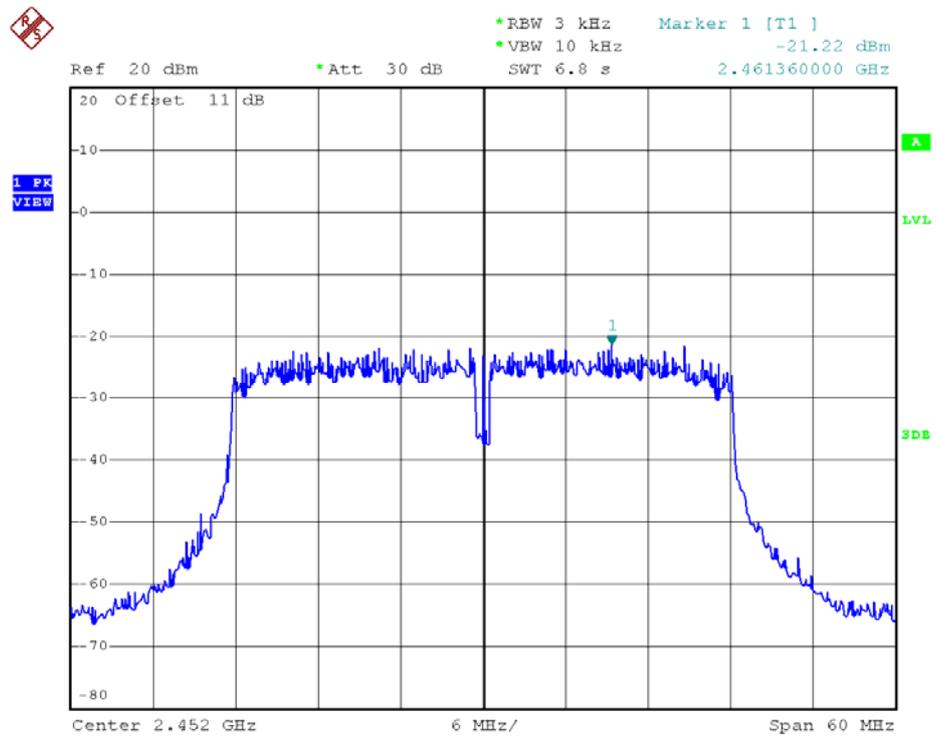
802.11n20 - Channel 11



802.11n40 - Channel 3



802.11n40 - Channel 6



802.11n40 - Channel 9

2.6. Radiated Band Edge and Spurious Emission

2.6.1. Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Note: Wireless charger configuration was evaluated.

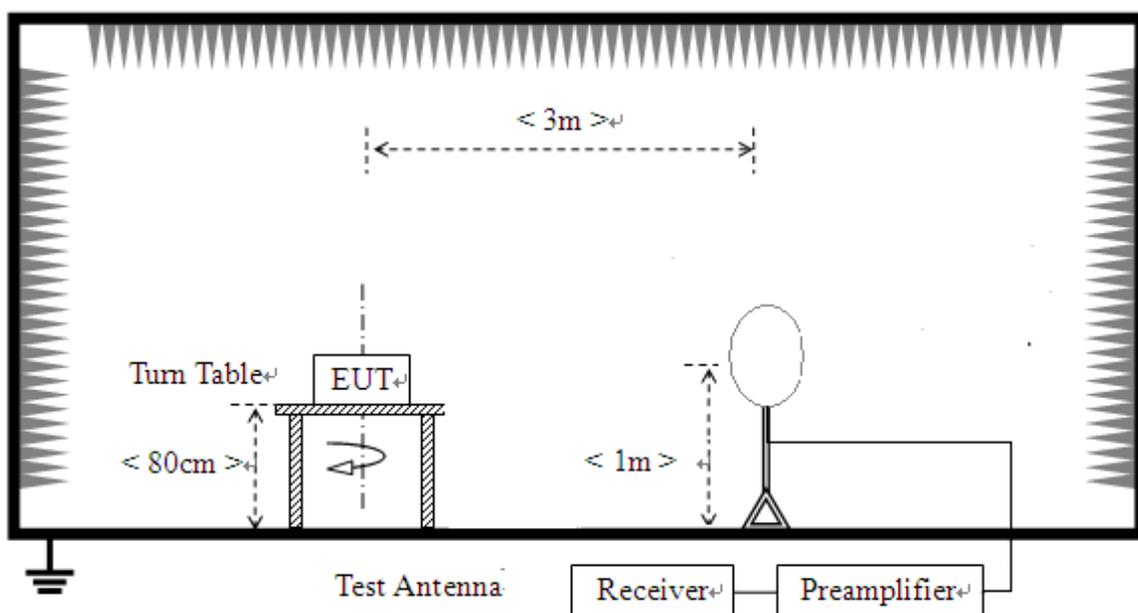
Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

2.6.2. Measuring Instruments

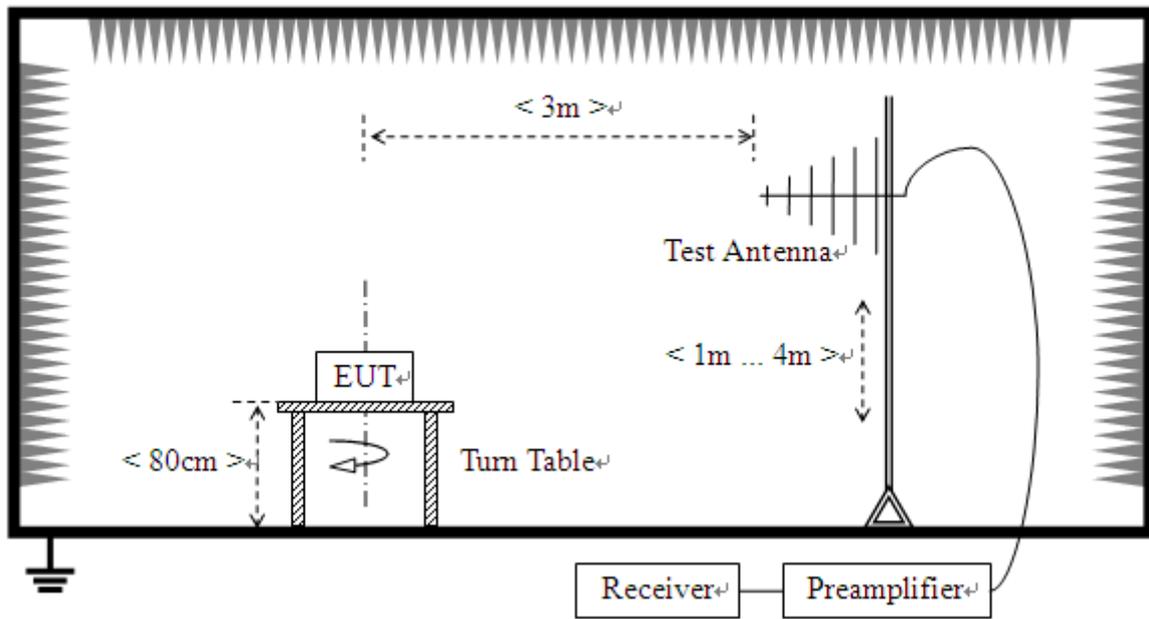
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

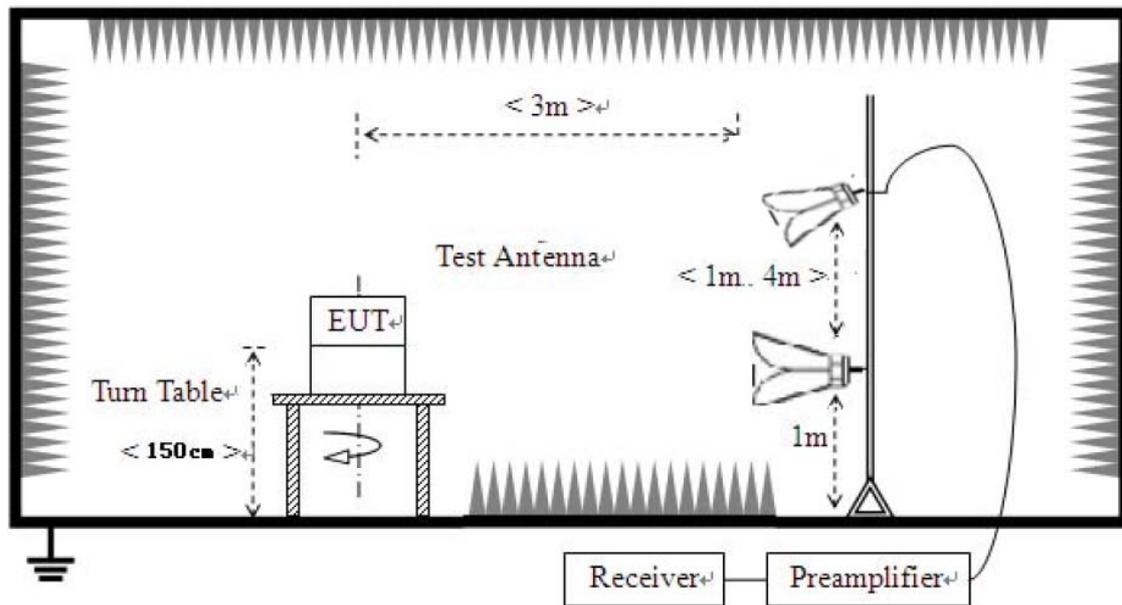
For radiated emissions from 9 KHz to 30 MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.6.4. Test Procedures

1. The EUT was placed on the top of a rotating table 0.8/1.5 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. Height of receiving antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported.
Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
7. For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

NOTE:

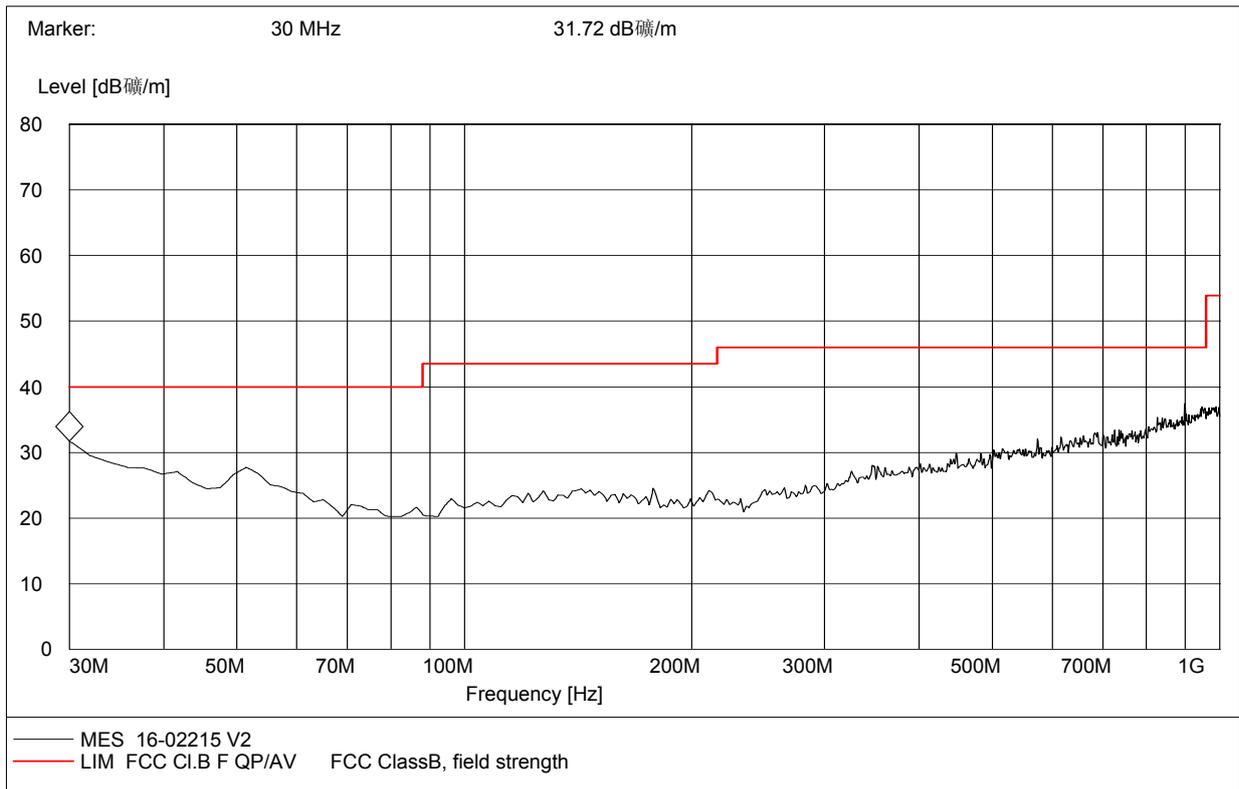
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

2.6.5. Test Results of Radiated Band Edge and Spurious Emission

For 9 kHz to 30MHz

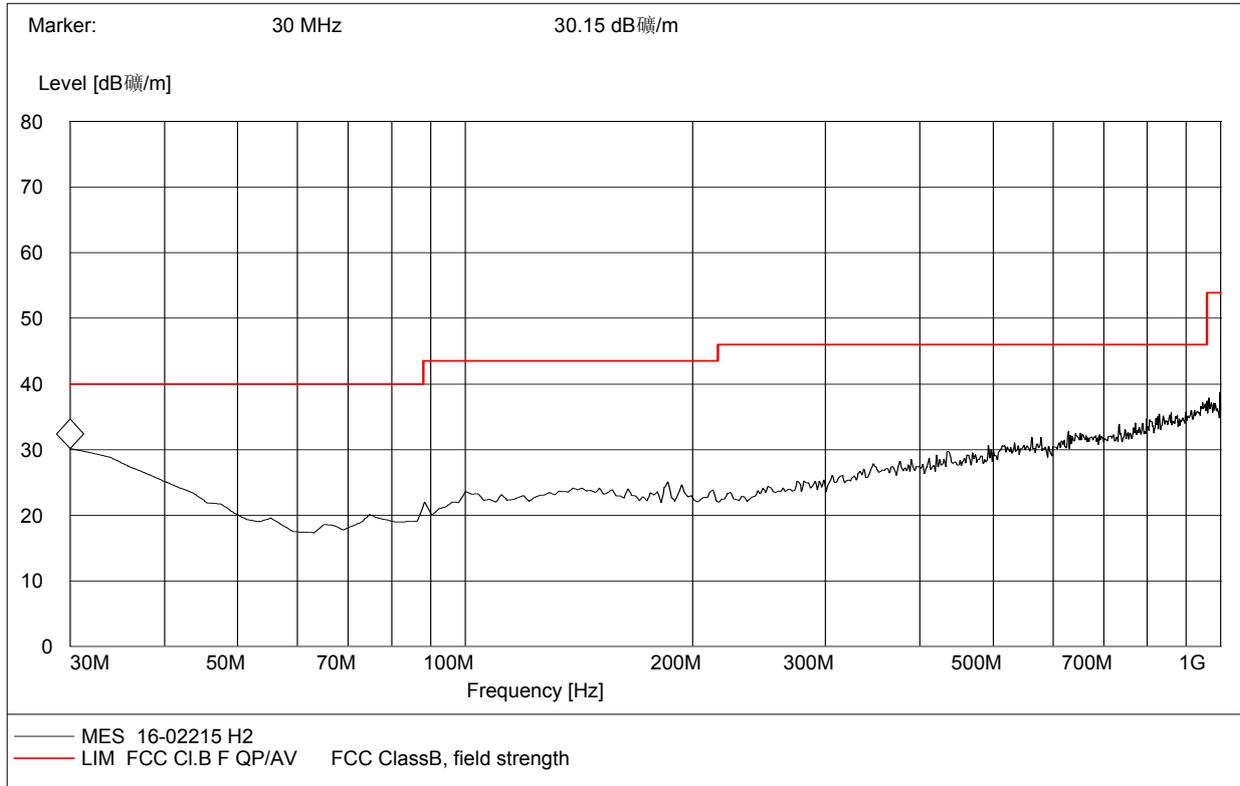
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

For 30MHz to 1000 MHz



30MHz to 1GHz, Antenna Vertical

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dBμV/m)	Margin (dB)	Cable Loss(dB)	ANT. Factor(dB)	Verdict
30.00	30.07	120.000	110.0	40.0	9.93	0.5	28.6	Pass
51.38	24.72	120.000	110.0	40.0	15.28	0.5	28.6	Pass
115.52	21.41	120.000	110.0	43.5	22.09	0.5	28.6	Pass
142.74	22.50	120.000	110.0	43.5	21	0.5	28.6	Pass
177.73	22.54	120.000	110.0	43.5	20.96	0.5	28.6	Pass
346.85	26.01	120.000	110.0	46.0	19.99	0.8	28.9	Pass



30MHz to 1GHz, Antenna Horizontal

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Cable Loss(dB)	ANT. Factor(dB)	Verdict
30.00	28.71	120.000	110.0	40.0	11.29	0.5	28.6	Pass
99.98	21.63	120.000	110.0	43.5	21.87	0.5	28.6	Pass
134.97	21.60	120.000	110.0	43.5	21.9	0.5	28.6	Pass
156.35	21.90	120.000	110.0	43.5	21.6	0.5	28.6	Pass
185.51	23.08	120.000	110.0	43.5	20.42	0.5	28.6	Pass
411.00	26.68	120.000	110.0	46.0	19.32	1.0	28.8	Pass

**For 1GHz to 25 GHz****ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11b_2412MHz)**

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1236.25	49.34	PK	74.00	-24.66	1.50 H	84	49.94	1.8	29.5	31.9	-0.6
2	1236.25	37.05	AV	54.00	-16.95	1.50 H	84	37.65	1.8	29.5	31.9	-0.6
3	1856.63	49.65	PK	74.00	-24.35	1.50 H	79	50.15	2.5	29.4	32.4	-0.5
4	1856.63	37.12	AV	54.00	-16.88	1.50 H	79	37.62	2.5	29.4	32.4	-0.5
5	2390.00	49.95	PK	74.00	-24.05	1.50 H	110	48.65	5.2	28.6	32.5	1.3
6	2390.00	37.75	AV	54.00	-16.25	1.50 H	110	36.45	5.2	28.6	32.5	1.3
7	3524.18	49.63	PK	74.00	-24.37	1.50 H	9	44.78	6.3	30.05	31.5	4.85
8	3524.18	37.26	AV	54.00	-16.74	1.50 H	9	32.41	6.3	30.05	31.5	4.85
9	4824.00	49.26	PK	74.00	-24.74	1.50 H	210	42.86	7.4	30.4	31.4	6.4
10	4824.00	36.83	AV	54.00	-17.17	1.50 H	210	30.43	7.4	30.4	31.4	6.4
11	7862.32	50.62	PK	74.00	-23.38	1.50 H	135	38.92	12.5	31.2	32	11.7
12	7862.32	39.50	AV	54.00	-14.5	1.50 H	135	27.8	12.5	31.2	32	11.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11b_2412MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1236.25	49.07	PK	74.00	-24.93	1.50 V	84	49.67	1.8	29.5	31.9	-0.6
2	1236.25	37.63	AV	54.00	-16.37	1.50 V	84	38.23	1.8	29.5	31.9	-0.6
3	1856.63	49.25	PK	74.00	-24.75	1.50 V	79	49.75	2.5	29.4	32.4	-0.5
4	1856.63	38.00	AV	54.00	-16	1.50 V	79	38.5	2.5	29.4	32.4	-0.5
5	2390.00	49.43	PK	74.00	-24.57	1.50 V	110	48.13	5.2	28.6	32.5	1.3
6	2390.00	37.74	AV	54.00	-16.26	1.50 V	110	36.44	5.2	28.6	32.5	1.3
7	3524.18	49.44	PK	74.00	-24.56	1.50 V	9	44.59	6.3	30.05	31.5	4.85
8	3524.18	37.20	AV	54.00	-16.8	1.50 V	9	32.35	6.3	30.05	31.5	4.85
9	4824.00	49.45	PK	74.00	-24.55	1.50 V	210	43.05	7.4	30.4	31.4	6.4
10	4824.00	36.84	AV	54.00	-17.16	1.50 V	210	30.44	7.4	30.4	31.4	6.4
11	7862.32	50.27	PK	74.00	-23.73	1.50 V	135	38.57	12.5	31.2	32	11.7
12	7862.32	39.32	AV	54.00	-14.68	1.50 V	135	27.62	12.5	31.2	32	11.7



ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11b_2437MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1129.30	46.85	PK	74.00	-27.15	1.50 H	11	47.45	1.8	29.5	31.9	-0.6
2	1129.30	35.80	AV	54.00	-18.2	1.50 H	11	36.4	1.8	29.5	31.9	-0.6
3	2056.50	47.05	PK	74.00	-26.95	1.50 H	89	47.65	2.8	28.7	32.1	-0.6
4	2056.50	35.92	AV	54.00	-18.08	1.50 H	89	36.52	2.8	28.7	32.1	-0.6
5	3755.64	48.69	PK	74.00	-25.31	1.50 H	235	43.84	6.3	30.05	31.5	4.85
6	3755.64	36.55	AV	54.00	-17.45	1.50 H	235	31.7	6.3	30.05	31.5	4.85
7	4874.00	49.79	PK	74.00	-24.21	1.50 H	125	43.39	6.7	31.2	31.5	6.4
8	4874.00	37.29	AV	54.00	-16.71	1.50 H	125	30.89	6.7	31.2	31.5	6.4
9	5385.60	50.21	PK	74.00	-23.79	1.50 H	68	41.61	9	31	31.4	8.6
10	5385.60	37.45	AV	54.00	-16.55	1.50 H	68	28.85	9	31	31.4	8.6
11	8536.92	51.02	PK	74.00	-22.98	1.50 H	235	39.32	12.5	31.2	32	11.7
12	8536.92	37.89	AV	54.00	-16.11	1.50 H	235	26.19	12.5	31.2	32	11.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11b_2437MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1129.30	46.67	PK	74.00	-27.33	1.50 V	11	47.27	1.8	29.5	31.9	-0.6
2	1129.30	35.76	AV	54.00	-18.24	1.50 V	11	36.36	1.8	29.5	31.9	-0.6
3	2056.50	47.01	PK	74.00	-26.99	1.50 V	89	47.61	2.8	28.7	32.1	-0.6
4	2056.50	35.89	AV	54.00	-18.11	1.50 V	89	36.49	2.8	28.7	32.1	-0.6
5	3755.64	48.64	PK	74.00	-25.36	1.50 V	235	43.79	6.3	30.05	31.5	4.85
6	3755.64	36.50	AV	54.00	-17.5	1.50 V	235	31.65	6.3	30.05	31.5	4.85
7	4874.00	49.61	PK	74.00	-24.39	1.50 V	125	43.21	6.7	31.2	31.5	6.4
8	4874.00	37.31	AV	54.00	-16.69	1.50 V	125	30.91	6.7	31.2	31.5	6.4
9	5385.60	50.13	PK	74.00	-23.87	1.50 V	68	41.53	9	31	31.4	8.6
10	5385.60	37.41	AV	54.00	-16.59	1.50 V	68	28.81	9	31	31.4	8.6
11	8536.92	50.95	PK	74.00	-23.05	1.50 V	235	39.25	12.5	31.2	32	11.7
12	8536.92	37.82	AV	54.00	-16.18	1.50 V	235	26.12	12.5	31.2	32	11.7



ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11b_2462MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1288.60	46.35	PK	74.00	-27.65	1.50 H	63	46.95	1.8	29.5	31.9	-0.6
2	1288.60	35.68	AV	54.00	-18.32	1.50 H	63	36.28	1.8	29.5	31.9	-0.6
3	1966.34	47.42	PK	74.00	-26.58	1.50 H	158	48.02	2.8	28.7	32.1	-0.6
4	1966.34	35.74	AV	54.00	-18.26	1.50 H	158	36.34	2.8	28.7	32.1	-0.6
5	2483.50	48.07	PK	74.00	-25.93	1.50 H	120	45.47	5.7	28.7	31.8	2.6
6	2483.50	34.36	AV	54.00	-19.64	1.50 H	120	31.76	5.7	28.7	31.8	2.6
7	3692.10	48.26	PK	74.00	-25.74	1.50 H	207	43.41	6.3	30.05	31.5	4.85
8	3692.10	35.89	AV	54.00	-18.11	1.50 H	207	31.04	6.3	30.05	31.5	4.85
9	4924.00	49.28	PK	74.00	-24.72	1.50 H	215	42.88	6.7	31.2	31.5	6.4
10	4924.00	37.43	AV	54.00	-16.57	1.50 H	215	31.03	6.7	31.2	31.5	6.4
11	6859.40	50.81	PK	74.00	-23.19	1.50 H	160	41.31	10.5	31	32	9.5
12	6859.40	37.90	AV	54.00	-16.1	1.50 H	160	28.4	10.5	31	32	9.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11b_2462MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1288.60	47.52	PK	74.00	-26.48	1.50 V	63	48.12	1.8	29.5	31.9	-0.6
2	1288.60	35.71	AV	54.00	-18.29	1.50 V	63	36.31	1.8	29.5	31.9	-0.6
3	1966.34	47.48	PK	74.00	-26.52	1.50 V	158	48.08	2.8	28.7	32.1	-0.6
4	1966.34	35.77	AV	54.00	-18.23	1.50 V	158	36.37	2.8	28.7	32.1	-0.6
5	2483.50	48.51	PK	74.00	-25.49	1.50 V	120	45.91	5.7	28.7	31.8	2.6
6	2483.50	36.41	AV	54.00	-17.59	1.50 V	120	33.81	5.7	28.7	31.8	2.6
7	3692.10	48.35	PK	74.00	-25.65	1.50 V	207	43.5	6.3	30.05	31.5	4.85
8	3692.10	35.90	AV	54.00	-18.1	1.50 V	207	31.05	6.3	30.05	31.5	4.85
9	4924.00	49.25	PK	74.00	-24.75	1.50 V	215	42.85	6.7	31.2	31.5	6.4
10	4924.00	37.40	AV	54.00	-16.6	1.50 V	215	31	6.7	31.2	31.5	6.4
11	6859.40	50.88	PK	74.00	-23.12	1.50 V	160	41.38	10.5	31	32	9.5
12	6859.40	37.94	AV	54.00	-16.06	1.50 V	160	28.44	10.5	31	32	9.5



ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11g 2412MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1026.30	47.23	PK	74.00	-26.77	1.50 H	109	48.03	1.5	29.6	31.9	-0.8
2	1026.30	35.46	AV	54.00	-18.54	1.50 H	109	36.26	1.5	29.6	31.9	-0.8
3	1752.00	48.20	PK	74.00	-25.8	1.50 H	44	48.7	2.5	29.4	32.4	-0.5
4	1752.00	36.35	AV	54.00	-17.65	1.50 H	44	36.85	2.5	29.4	32.4	-0.5
5	2390.00	48.78	PK	74.00	-25.22	1.50 H	119	47.48	5.2	28.6	32.5	1.3
6	2390.00	36.74	AV	54.00	-17.26	1.50 H	119	35.44	5.2	28.6	32.5	1.3
7	3490.30	49.23	PK	74.00	-24.77	1.50 H	205	44.38	6.3	30.05	31.5	4.85
8	3490.30	36.17	AV	54.00	-17.83	1.50 H	205	31.32	6.3	30.05	31.5	4.85
9	4824.00	49.72	PK	74.00	-24.28	1.50 H	181	43.32	7.4	30.4	31.4	6.4
10	4824.00	37.83	AV	54.00	-16.17	1.50 H	181	31.43	7.4	30.4	31.4	6.4
11	6125.22	51.35	PK	74.00	-22.65	1.50 H	269	42.55	9.9	31	32.1	8.8
12	6125.22	38.22	AV	54.00	-15.78	1.50 H	269	29.42	9.9	31	32.1	8.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11g 2412MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1026.30	47.15	PK	74.00	-26.85	1.50 V	109	47.95	1.5	29.6	31.9	-0.8
2	1026.30	35.40	AV	54.00	-18.6	1.50 V	109	36.2	1.5	29.6	31.9	-0.8
3	1752.00	48.15	PK	74.00	-25.85	1.50 V	44	48.65	2.5	29.4	32.4	-0.5
4	1752.00	36.34	AV	54.00	-17.66	1.50 V	44	36.84	2.5	29.4	32.4	-0.5
5	2390.00	47.55	PK	74.00	-26.45	1.50 V	119	46.25	5.2	28.6	32.5	1.3
6	2390.00	35.81	AV	54.00	-18.19	1.50 V	119	34.51	5.2	28.6	32.5	1.3
7	3490.30	49.21	PK	74.00	-24.79	1.50 V	205	44.36	6.3	30.05	31.5	4.85
8	3490.30	36.13	AV	54.00	-17.87	1.50 V	205	31.28	6.3	30.05	31.5	4.85
9	4824.00	49.16	PK	74.00	-24.84	1.50 V	181	42.76	7.4	30.4	31.4	6.4
10	4824.00	36.63	AV	54.00	-17.37	1.50 V	181	30.23	7.4	30.4	31.4	6.4
11	6125.22	51.32	PK	74.00	-22.68	1.50 V	269	42.52	9.9	31	32.1	8.8
12	6125.22	38.19	AV	54.00	-15.81	1.50 V	269	29.39	9.9	31	32.1	8.8



ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11g_2437MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1436.25	46.85	PK	74.00	-27.15	1.50 H	165	48.35	2	29	32.5	-1.5
2	1436.25	35.92	AV	54.00	-18.08	1.50 H	165	37.42	2	29	32.5	-1.5
3	2566.88	47.26	PK	74.00	-26.74	1.50 H	118	44.66	5.7	28.7	31.8	2.6
4	2566.88	36.28	AV	54.00	-17.72	1.50 H	118	33.68	5.7	28.7	31.8	2.6
5	3664.00	48.34	PK	74.00	-25.66	1.50 H	18	43.49	6.3	30.05	31.5	4.85
6	3664.00	36.75	AV	54.00	-17.25	1.50 H	18	31.9	6.3	30.05	31.5	4.85
7	4874.00	49.04	PK	74.00	-24.96	1.50 H	120	42.64	6.7	31.2	31.5	6.4
8	4874.00	37.29	AV	54.00	-16.71	1.50 H	120	30.89	6.7	31.2	31.5	6.4
9	5563.27	49.85	PK	74.00	-24.15	1.50 H	285	41.25	9	31	31.4	8.6
10	5563.27	37.88	AV	54.00	-16.12	1.50 H	285	29.28	9	31	31.4	8.6
11	6881.35	51.36	PK	74.00	-22.64	1.50 H	201	41.86	10.5	31	32	9.5
12	6881.35	38.05	AV	54.00	-15.95	1.50 H	201	28.55	10.5	31	32	9.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11g_2437MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1436.25	46.72	PK	74.00	-27.28	1.50 V	165	48.22	2	29	32.5	-1.5
2	1436.25	35.84	AV	54.00	-18.16	1.50 V	165	37.34	2	29	32.5	-1.5
3	2566.88	47.21	PK	74.00	-26.79	1.50 V	118	44.91	5.6	28.7	32	2.3
4	2566.88	36.20	AV	54.00	-17.8	1.50 V	118	33.9	5.6	28.7	32	2.3
5	3664.00	48.27	PK	74.00	-25.73	1.50 V	18	43.42	6.3	30.05	31.5	4.85
6	3664.00	36.68	AV	54.00	-17.32	1.50 V	18	31.83	6.3	30.05	31.5	4.85
7	4874.00	48.54	PK	74.00	-25.46	1.50 V	120	42.14	6.7	31.2	31.5	6.4
8	4874.00	37.33	AV	54.00	-16.67	1.50 V	120	30.93	6.7	31.2	31.5	6.4
9	5563.27	49.82	PK	74.00	-24.18	1.50 V	285	41.22	9	31	31.4	8.6
10	5563.27	37.81	AV	54.00	-16.19	1.50 V	285	29.21	9	31	31.4	8.6
11	6881.35	51.33	PK	74.00	-22.67	1.50 V	201	41.83	10.5	31	32	9.5
12	6881.35	38.00	AV	54.00	-16	1.50 V	201	28.5	10.5	31	32	9.5



ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11g 2462MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1255.20	46.69	PK	74.00	-27.31	1.50 H	152	47.29	1.8	29.5	31.9	-0.6
2	1255.20	35.02	AV	54.00	-18.98	1.50 H	152	35.62	1.8	29.5	31.9	-0.6
3	1988.62	47.52	PK	74.00	-26.48	1.50 H	201	48.12	2.8	28.7	32.1	-0.6
4	1988.62	35.80	AV	54.00	-18.2	1.50 H	201	36.4	2.8	28.7	32.1	-0.6
5	2483.50	48.43	PK	74.00	-25.57	1.50 H	125	45.83	5.7	28.7	31.8	2.6
6	2483.50	36.30	AV	54.00	-17.7	1.50 H	125	33.7	5.7	28.7	31.8	2.6
7	3660.20	49.06	PK	74.00	-24.94	1.50 H	26	44.21	6.3	30.05	31.5	4.85
8	3660.20	36.92	AV	54.00	-17.08	1.50 H	26	32.07	6.3	30.05	31.5	4.85
9	4924.00	49.75	PK	74.00	-24.25	1.50 H	192	43.35	6.7	31.2	31.5	6.4
10	4924.00	37.43	AV	54.00	-16.57	1.50 H	192	31.03	6.7	31.2	31.5	6.4
11	6520.10	51.20	PK	74.00	-22.8	1.50 H	101	41.7	10.5	31	32	9.5
12	6520.10	38.11	AV	54.00	-15.89	1.50 H	101	28.61	10.5	31	32	9.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11g 2462MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1255.20	46.62	PK	74.00	-27.38	1.50 V	152	47.22	1.8	29.5	31.9	-0.6
2	1255.20	35.01	AV	54.00	-18.99	1.50 V	152	35.61	1.8	29.5	31.9	-0.6
3	1988.62	47.50	PK	74.00	-26.5	1.50 V	201	48.1	2.8	28.7	32.1	-0.6
4	1988.62	35.73	AV	54.00	-18.27	1.50 V	201	36.33	2.8	28.7	32.1	-0.6
5	2483.50	47.03	PK	74.00	-26.97	1.50 V	125	44.43	5.7	28.7	31.8	2.6
6	2483.50	35.57	AV	54.00	-18.43	1.50 V	125	32.97	5.7	28.7	31.8	2.6
7	3660.20	49.13	PK	74.00	-24.87	1.50 V	26	44.28	6.3	30.05	31.5	4.85
8	3660.20	36.96	AV	54.00	-17.04	1.50 V	26	32.11	6.3	30.05	31.5	4.85
9	4924.00	50.70	PK	74.00	-23.3	1.50 V	192	44.3	6.7	31.2	31.5	6.4
10	4924.00	37.48	AV	54.00	-16.52	1.50 V	192	31.08	6.7	31.2	31.5	6.4
11	6520.10	51.28	PK	74.00	-22.72	1.50 V	101	41.78	10.5	31	32	9.5
12	6520.10	38.14	AV	54.00	-15.86	1.50 V	101	28.64	10.5	31	32	9.5



ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_2412MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1362.50	47.52	PK	74.00	-26.48	1.50 H		49.02	2	29	32.5	-1.5
2	1362.50	36.28	AV	54.00	-17.72	1.50 H		37.78	2	29	32.5	-1.5
3	1963.99	48.25	PK	74.00	-25.75	1.50 H		48.85	2.8	28.7	32.1	-0.6
4	1963.99	37.08	AV	54.00	-16.92	1.50 H		37.68	2.8	28.7	32.1	-0.6
5	2390.00	48.90	PK	74.00	-25.1	1.50 H		47.6	5.2	28.6	32.5	1.3
6	2390.00	37.75	AV	54.00	-16.25	1.50 H		36.45	5.2	28.6	32.5	1.3
7	3662.30	49.23	PK	74.00	-24.77	1.50 H		44.38	6.3	30.05	31.5	4.85
8	3662.30	37.21	AV	54.00	-16.79	1.50 H		32.36	6.3	30.05	31.5	4.85
9	4824.00	49.54	PK	74.00	-24.46	1.50 H		43.14	7.4	30.4	31.4	6.4
10	4824.00	36.83	AV	54.00	-17.17	1.50 H		30.43	7.4	30.4	31.4	6.4
11	6237.50	52.01	PK	74.00	-21.99	1.50 H		42.51	10.5	31	32	9.5
12	6237.50	38.54	AV	54.00	-15.46	1.50 H		29.04	10.5	31	32	9.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_2412MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1362.50	47.45	PK	74.00	-26.55	1.50 V		48.95	2	29	32.5	-1.5
2	1362.50	36.23	AV	54.00	-17.77	1.50 V		37.73	2	29	32.5	-1.5
3	1963.99	48.21	PK	74.00	-25.79	1.50 V		48.81	2.8	28.7	32.1	-0.6
4	1963.99	37.05	AV	54.00	-16.95	1.50 V		37.65	2.8	28.7	32.1	-0.6
5	2390.00	48.67	PK	74.00	-25.33	1.50 V		47.37	5.2	28.6	32.5	1.3
6	2390.00	36.74	AV	54.00	-17.26	1.50 V		35.44	5.2	28.6	32.5	1.3
7	3662.30	49.20	PK	74.00	-24.8	1.50 V		44.35	6.3	30.05	31.5	4.85
8	3662.30	37.15	AV	54.00	-16.85	1.50 V		32.3	6.3	30.05	31.5	4.85
9	4824.00	48.97	PK	74.00	-25.03	1.50 V		42.57	7.4	30.4	31.4	6.4
10	4824.00	36.86	AV	54.00	-17.14	1.50 V		30.46	7.4	30.4	31.4	6.4
11	6237.50	51.84	PK	74.00	-22.16	1.50 V		42.34	10.5	31	32	9.5
12	6237.50	38.50	AV	54.00	-15.5	1.50 V		29	10.5	31	32	9.5



ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_2437MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1021.50	47.50	PK	74.00	-26.5	1.50 H		48.3	1.5	29.6	31.9	-0.8
2	1021.50	36.25	AV	54.00	-17.75	1.50 H		37.05	1.5	29.6	31.9	-0.8
3	2563.20	48.26	PK	74.00	-25.74	1.50 H		45.66	5.7	28.7	31.8	2.6
4	2563.20	36.59	AV	54.00	-17.41	1.50 H		33.99	5.7	28.7	31.8	2.6
5	3664.40	48.92	PK	74.00	-25.08	1.50 H		44.07	6.3	30.05	31.5	4.85
6	3664.40	36.93	AV	54.00	-17.07	1.50 H		32.08	6.3	30.05	31.5	4.85
7	4874.00	49.52	PK	74.00	-24.48	1.50 H		43.12	6.7	31.2	31.5	6.4
8	4874.00	37.29	AV	54.00	-16.71	1.50 H		30.89	6.7	31.2	31.5	6.4
9	6022.37	50.12	PK	74.00	-23.88	1.50 H		9.9	31	32.1	8.8	9.9
10	6022.37	37.88	AV	54.00	-16.12	1.50 H		9.9	31	32.1	8.8	9.9
11	7453.62	52.04	PK	74.00	-21.96	1.50 H		40.34	12.5	31.2	32	11.7
12	7453.62	38.51	AV	54.00	-15.49	1.50 H		26.81	12.5	31.2	32	11.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_2437MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1021.50	47.54	PK	74.00	-26.46	1.50 V		48.34	1.5	29.6	31.9	-0.8
2	1021.50	36.21	AV	54.00	-17.79	1.50 V		37.01	1.5	29.6	31.9	-0.8
3	2563.20	48.30	PK	74.00	-25.7	1.50 V		45.7	5.7	28.7	31.8	2.6
4	2563.20	36.55	AV	54.00	-17.45	1.50 V		33.95	5.7	28.7	31.8	2.6
5	3664.40	48.97	PK	74.00	-25.03	1.50 V		44.12	6.3	30.05	31.5	4.85
6	3664.40	36.90	AV	54.00	-17.1	1.50 V		32.05	6.3	30.05	31.5	4.85
7	4874.00	49.88	PK	74.00	-24.12	1.50 V		43.48	6.7	31.2	31.5	6.4
8	4874.00	37.36	AV	54.00	-16.64	1.50 V		30.96	6.7	31.2	31.5	6.4
9	6022.37	50.18	PK	74.00	-23.82	1.50 V		41.38	9.9	31	32.1	8.8
10	6022.37	37.84	AV	54.00	-16.16	1.50 V		29.04	9.9	31	32.1	8.8
11	7453.62	52.02	PK	74.00	-21.98	1.50 V		40.32	12.5	31.2	32	11.7
12	7453.62	38.48	AV	54.00	-15.52	1.50 V		26.78	12.5	31.2	32	11.7



ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_2462MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1082.63	48.72	PK	74.00	-25.28	1.50 H		49.52	1.5	29.6	31.9	-0.8
2	1082.63	36.05	AV	54.00	-17.95	1.50 H		36.85	1.5	29.6	31.9	-0.8
3	1824.60	49.92	PK	74.00	-24.08	1.50 H		50.42	2.5	29.4	32.4	-0.5
4	1824.60	36.11	AV	54.00	-17.89	1.50 H		36.61	2.5	29.4	32.4	-0.5
5	2483.50	52.26	PK	74.00	-21.74	1.50 H		49.66	5.7	28.7	31.8	2.6
6	2483.50	38.95	AV	54.00	-15.05	1.50 H		36.35	5.7	28.7	31.8	2.6
7	3642.28	50.32	PK	74.00	-23.68	1.50 H		45.47	6.3	30.05	31.5	4.85
8	3642.28	36.65	AV	54.00	-17.35	1.50 H		31.8	6.3	30.05	31.5	4.85
9	4924.00	48.68	PK	74.00	-25.32	1.50 H		42.28	6.7	31.2	31.5	6.4
10	4924.00	37.43	AV	54.00	-16.57	1.50 H		31.03	6.7	31.2	31.5	6.4
11	6154.32	50.21	PK	74.00	-23.79	1.50 H		41.41	9.9	31	32.1	8.8
12	6154.32	38.62	AV	54.00	-15.38	1.50 H		29.82	9.9	31	32.1	8.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_2462MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1082.63	48.68	PK	74.00	-25.32	1.50 V		49.48	1.5	29.6	31.9	-0.8
2	1082.63	36.11	AV	54.00	-17.89	1.50 V		36.91	1.5	29.6	31.9	-0.8
3	1824.60	49.90	PK	74.00	-24.1	1.50 V		50.4	2.5	29.4	32.4	-0.5
4	1824.60	36.12	AV	54.00	-17.88	1.50 V		36.62	2.5	29.4	32.4	-0.5
5	2483.50	51.82	PK	74.00	-22.18	1.50 V		49.22	5.7	28.7	31.8	2.6
6	2483.50	37.05	AV	54.00	-16.95	1.50 V		34.45	5.7	28.7	31.8	2.6
7	3642.28	50.34	PK	74.00	-23.66	1.50 V		45.49	6.3	30.05	31.5	4.85
8	3642.28	36.61	AV	54.00	-17.39	1.50 V		31.76	6.3	30.05	31.5	4.85
9	4924.00	48.88	PK	74.00	-25.12	1.50 V		42.48	6.7	31.2	31.5	6.4
10	4924.00	37.42	AV	54.00	-16.58	1.50 V		31.02	6.7	31.2	31.5	6.4
11	6154.32	50.24	PK	74.00	-23.76	1.50 V		41.44	9.9	31	32.1	8.8
12	6154.32	38.60	AV	54.00	-15.4	1.50 V		29.8	9.9	31	32.1	8.8



ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_2422MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1243.40	47.52	PK	74.00	-26.48	1.50 H		48.12	1.8	29.5	31.9	-0.6
2	1243.40	36.05	AV	54.00	-17.95	1.50 H		36.65	1.8	29.5	31.9	-0.6
3	1856.65	48.85	PK	74.00	-25.15	1.50 H		49.35	2.5	29.4	32.4	-0.5
4	1856.65	36.24	AV	54.00	-17.76	1.50 H		36.74	2.5	29.4	32.4	-0.5
5	2390.00	50.24	PK	74.00	-23.76	1.50 H		48.94	5.2	28.6	32.5	1.3
6	2390.00	38.40	AV	54.00	-15.6	1.50 H		37.1	5.2	28.6	32.5	1.3
7	3625.24	50.39	PK	74.00	-23.61	1.50 H		45.54	6.3	30.05	31.5	4.85
8	3625.24	36.24	AV	54.00	-17.76	1.50 H		31.39	6.3	30.05	31.5	4.85
9	4844.00	48.52	PK	74.00	-25.48	1.50 H		42.12	7.4	30.4	31.4	6.4
10	4844.00	36.88	AV	54.00	-17.12	1.50 H		30.48	7.4	30.4	31.4	6.4
11	5963.58	51.55	PK	74.00	-22.45	1.50 H		42.75	9.9	31	32.1	8.8
12	5963.58	37.59	AV	54.00	-16.41	1.50 H		28.79	9.9	31	32.1	8.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_2422MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1243.40	47.89	PK	74.00	-26.11	1.50 V		48.49	1.8	29.5	31.9	-0.6
2	1243.40	36.14	AV	54.00	-17.86	1.50 V		36.74	1.8	29.5	31.9	-0.6
3	1856.65	48.88	PK	74.00	-25.12	1.50 V		49.38	2.5	29.4	32.4	-0.5
4	1856.65	36.27	AV	54.00	-17.73	1.50 V		36.77	2.5	29.4	32.4	-0.5
5	2390.00	51.69	PK	74.00	-22.31	1.50 V		50.39	5.2	28.6	32.5	1.3
6	2390.00	38.36	AV	54.00	-15.64	1.50 V		37.06	5.2	28.6	32.5	1.3
7	3625.24	50.31	PK	74.00	-23.69	1.50 V		45.46	6.3	30.05	31.5	4.85
8	3625.24	36.20	AV	54.00	-17.8	1.50 V		31.35	6.3	30.05	31.5	4.85
9	4844.00	48.88	PK	74.00	-25.12	1.50 V		42.48	7.4	30.4	31.4	6.4
10	4844.00	36.84	AV	54.00	-17.16	1.50 V		30.44	7.4	30.4	31.4	6.4
11	5963.58	51.47	PK	74.00	-22.53	1.50 V		42.67	9.9	31	32.1	8.8
12	5963.58	37.52	AV	54.00	-16.48	1.50 V		28.72	9.9	31	32.1	8.8



ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_2437MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1020.63	46.58	PK	74.00	-27.42	1.50 H		47.38	1.5	29.6	31.9	-0.8
2	1020.63	36.65	AV	54.00	-17.35	1.50 H		37.45	1.5	29.6	31.9	-0.8
3	1991.00	47.08	PK	74.00	-26.92	1.50 H		47.68	2.8	28.7	32.1	-0.6
4	1991.00	36.82	AV	54.00	-17.18	1.50 H		37.42	2.8	28.7	32.1	-0.6
5	3752.47	48.11	PK	74.00	-25.89	1.50 H		43.26	6.3	30.05	31.5	4.85
6	3752.47	37.02	AV	54.00	-16.98	1.50 H		32.17	6.3	30.05	31.5	4.85
7	4874.00	48.85	PK	74.00	-25.15	1.50 H		42.45	6.7	31.2	31.5	6.4
8	4874.00	37.29	AV	54.00	-16.71	1.50 H		30.89	6.7	31.2	31.5	6.4
9	5896.50	49.08	PK	74.00	-24.92	1.50 H		40.28	9.9	31	32.1	8.8
10	5896.50	37.42	AV	54.00	-16.58	1.50 H		28.62	9.9	31	32.1	8.8
11	7410.54	50.88	PK	74.00	-23.12	1.50 H		39.18	12.5	31.2	32	11.7
12	7410.54	38.04	AV	54.00	-15.96	1.50 H		26.34	12.5	31.2	32	11.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_2437MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1020.63	46.72	PK	74.00	-27.28	1.50 V		47.52	1.5	29.6	31.9	-0.8
2	1020.63	36.64	AV	54.00	-17.36	1.50 V		37.44	1.5	29.6	31.9	-0.8
3	1991.00	47.10	PK	74.00	-26.9	1.50 V		47.7	2.8	28.7	32.1	-0.6
4	1991.00	36.83	AV	54.00	-17.17	1.50 V		37.43	2.8	28.7	32.1	-0.6
5	3752.47	48.17	PK	74.00	-25.83	1.50 V		43.32	6.3	30.05	31.5	4.85
6	3752.47	37.06	AV	54.00	-16.94	1.50 V		32.21	6.3	30.05	31.5	4.85
7	4874.00	49.24	PK	74.00	-24.76	1.50 V		42.84	6.7	31.2	31.5	6.4
8	4874.00	37.37	AV	54.00	-16.63	1.50 V		30.97	6.7	31.2	31.5	6.4
9	5896.50	49.14	PK	74.00	-24.86	1.50 V		40.34	9.9	31	32.1	8.8
10	5896.50	37.44	AV	54.00	-16.56	1.50 V		28.64	9.9	31	32.1	8.8
11	7410.54	51.17	PK	74.00	-22.83	1.50 V		39.47	12.5	31.2	32	11.7
12	7410.54	38.10	AV	54.00	-15.9	1.50 V		26.4	12.5	31.2	32	11.7



ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_2452MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1220.20	51.35	PK	74.00	-22.65	1.50 H		51.95	1.8	29.5	31.9	-0.6
2	1220.20	35.25	AV	54.00	-18.75	1.50 H		35.85	1.8	29.5	31.9	-0.6
3	1952.30	53.26	PK	74.00	-20.74	1.50 H		53.86	2.8	28.7	32.1	-0.6
4	1952.30	36.88	AV	54.00	-17.12	1.50 H		37.48	2.8	28.7	32.1	-0.6
5	2483.50	56.25	PK	74.00	-17.75	1.50 H		53.65	5.7	28.7	31.8	2.6
6	2483.50	38.54	AV	54.00	-15.46	1.50 H		35.94	5.7	28.7	31.8	2.6
7	3855.51	52.63	PK	74.00	-21.37	1.50 H		47.78	6.3	30.05	31.5	4.85
8	3855.51	36.89	AV	54.00	-17.11	1.50 H		32.04	6.3	30.05	31.5	4.85
9	4904.00	49.56	PK	74.00	-24.44	1.50 H		43.16	6.7	31.2	31.5	6.4
10	4904.00	37.42	AV	54.00	-16.58	1.50 H		31.02	6.7	31.2	31.5	6.4
11	6523.63	56.81	PK	74.00	-17.19	1.50 H		47.31	10.5	31	32	9.5
12	6523.63	38.62	AV	54.00	-15.38	1.50 H		29.12	10.5	31	32	9.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_2452MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	1220.20	51.45	PK	74.00	-22.55	1.50 V		52.05	1.8	29.5	31.9	-0.6
2	1220.20	35.29	AV	54.00	-18.71	1.50 V		35.89	1.8	29.5	31.9	-0.6
3	1952.30	53.33	PK	74.00	-20.67	1.50 V		53.93	2.8	28.7	32.1	-0.6
4	1952.30	36.90	AV	54.00	-17.1	1.50 V		37.5	2.8	28.7	32.1	-0.6
5	2483.50	58.58	PK	74.00	-15.42	1.50 V		55.98	5.7	28.7	31.8	2.6
6	2483.50	39.94	AV	54.00	-14.06	1.50 V		37.34	5.7	28.7	31.8	2.6
7	3855.51	52.68	PK	74.00	-21.32	1.50 V		47.83	6.3	30.05	31.5	4.85
8	3855.51	36.93	AV	54.00	-17.07	1.50 V		32.08	6.3	30.05	31.5	4.85
9	4904.00	49.83	PK	74.00	-24.17	1.50 V		43.43	6.7	31.2	31.5	6.4
10	4904.00	37.42	AV	54.00	-16.58	1.50 V		31.02	6.7	31.2	31.5	6.4
11	6523.63	56.99	PK	74.00	-17.01	1.50 V		47.49	10.5	31	32	9.5
12	6523.63	38.67	AV	54.00	-15.33	1.50 V		29.17	10.5	31	32	9.5

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
- Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level - Limit value
5. " * ": Fundamental frequency.

2.7. Conducted Emission

2.7.1. Limit of Conducted Emission

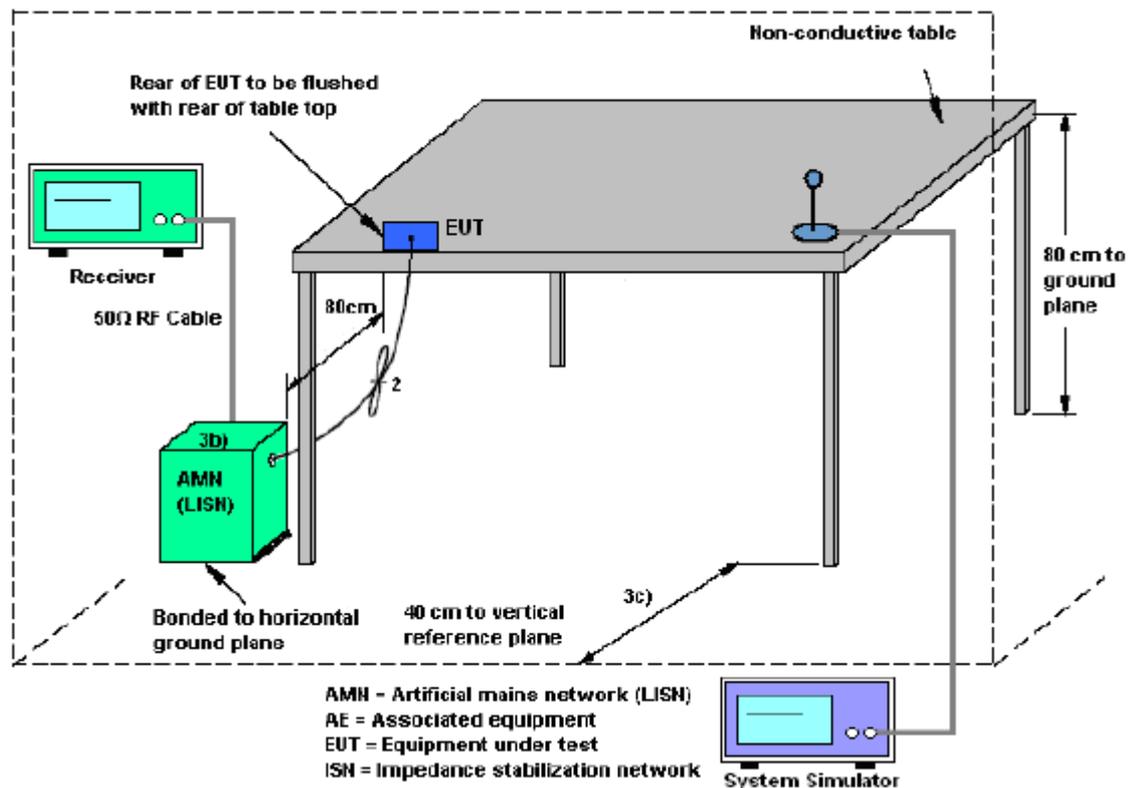
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

2.7.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.7.3. Test Setup



2.7.4. Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 micrometry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

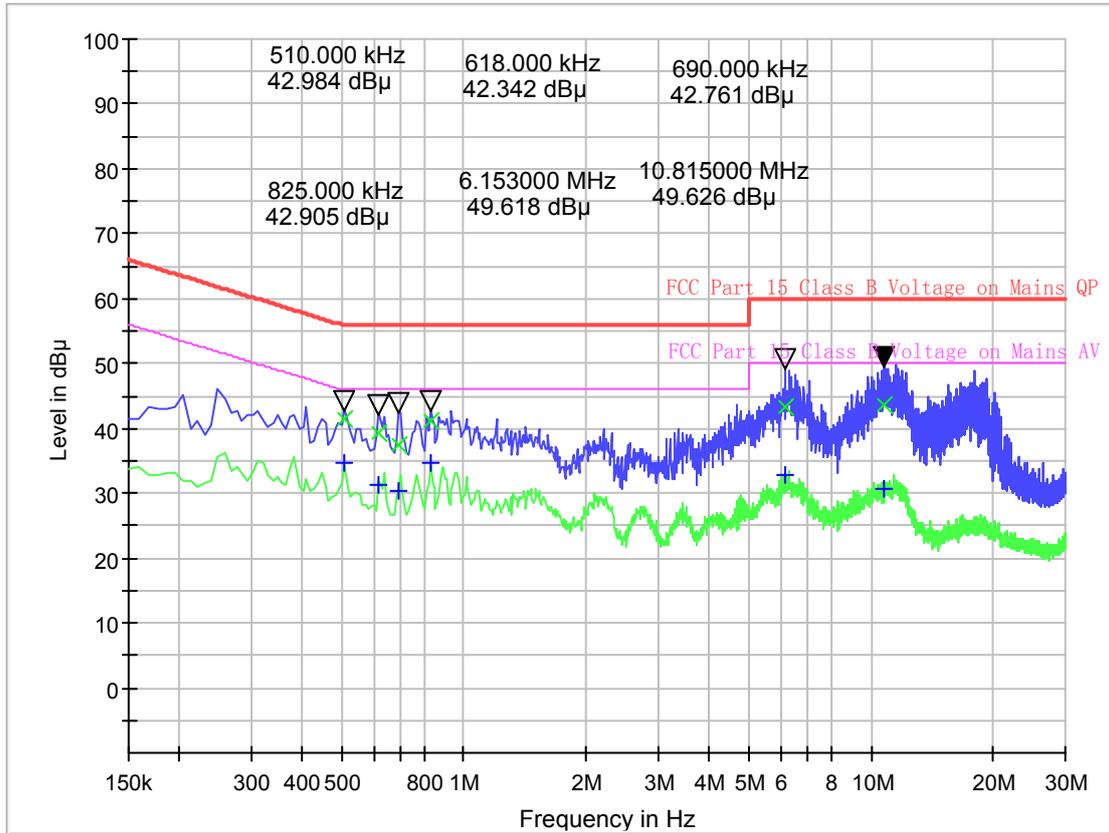


2.7.5. Test Results of Conducted Emission

1. The EUT configuration of the emission tests is WLAN Link + USB Cable (Charging from Adapter) + Earphone.
2. The power adapter support (100~240V AC, 50/60Hz), the EUT was tested at the both available voltages (120, 240V AC), and 60Hz. Only the worst-case mode (120V/60Hz) was record in this report.



FCC Part 15 Class B Voltage Test

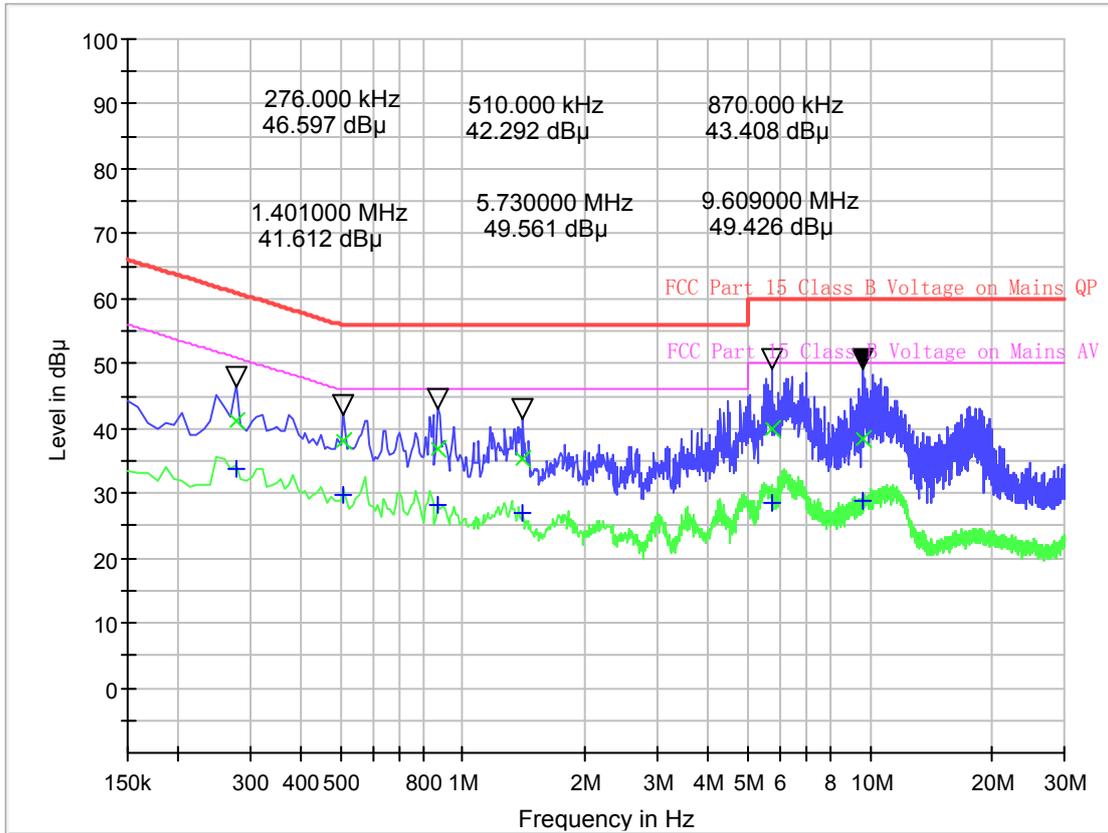


(Plot A: L Phase)

Frequency (MHz)	QuasiPeak (dB µ V)	Average (dB µ V)	Limit - QPK (dB µ)	Limit - AVG (dB µ)	Line	Corr. (dB)	Margin - QPK (dB)	Margin - AVG
0.510000	41.61	34.71	56.0	46.0	L1	10.0	14.39	11.29
0.618000	39.15	31.28	56.0	46.0	L1	10.0	16.85	14.72
0.690000	37.45	30.35	56.0	46.0	L1	10.1	18.55	15.65
0.825000	41.16	34.54	56.0	46.0	L1	10.0	14.84	11.46
6.153000	43.22	32.97	60.0	50.0	L1	10.0	16.78	17.03
10.815000	43.50	30.53	60.0	50.0	L1	10.3	16.50	19.47



FCC Part 15 Class B Voltage Test



(Plot B: N Phase)

Frequency (MHz)	QuasiPeak (dB µ V)	Average (dB µ V)	Limit - QPK (dB µ)	Limit - AVG (dB µ)	Line	Corr. (dB)	Margin - QPK (dB)	Margin - AVG
0.276000	41.30	33.77	60.9	50.9	N1	10.0	19.64	17.13
0.510000	38.11	29.86	56.0	46.0	N1	10.0	17.89	16.14
0.870000	36.89	28.21	56.0	46.0	N1	10.0	19.11	17.79
1.401000	35.28	26.88	56.0	46.0	N1	10.0	20.72	19.12
5.730000	40.05	28.63	60.0	50.0	N1	10.0	19.95	21.37
9.609000	38.34	28.82	60.0	50.0	N1	10.3	21.66	21.18

Test Result: PASS

3. List of measuring equipment

Description	Manufacturer	Model	Serial No.	Test Date	Due Date	Remark
EMI Test	R&S	ESIB26	A0304218	2016.06.02	2017.06.01	Radiation



Description	Manufacturer	Model	Serial No.	Test Date	Due Date	Remark
Receiver						
Full-Anechoic Chamber	Albatross	12.8m*6.8m*6.4m	A0412372	2016.06.02	2017.06.01	Radiation
Loop Antenna	Schwarz beck	HFH2-Z2	100047	2016.06.02	2017.06.01	Radiation
Bilog Antenna	Schwarzbeck	VULB 9163	9163-274	2016.06.02	2017.06.01	Radiation
Double ridge horn antenna	R&S	HF906	100150	2016.06.02	2017.06.01	Radiation
Ultra-wideband antenna	R&S	HL562	100089	2016.06.02	2017.06.01	Radiation
Test Antenna – Horn (18-26.5GHz)	ETS	3160-09	A0902607	2016.06.02	2017.06.01	Radiation
Amplifier 20M~3GHz	R&S	PAP-0203H	22018	2016.06.02	2017.06.01	Radiation
Ampilier 1G~18GHz	R&S	MITEQ AFS42-0010 1800	25-S-42	2016.06.02	2017.06.01	Radiation
Ampilier 18G~40GHz	R&S	JS42-180026 00-28-5A	12111.0980.00	2016.06.02	2017.06.01	Radiation
Spectrum Analyzer	R&S	FSP40	1164.4391.40	2016.07.07	2017.07.06	Conducted
Power Meter	Anritsu	ML2495A	1421017	2016.06.02	2017.06.01	Conducted
Power Sensor	Anritsu	MA2411B	1417208	2016.06.02	2017.06.01	Conducted
LISN	ROHDE&SC HWARZ	ESH2-Z5	A0304221	2016.06.02	2017.06.01	Conducted
Test Receiver	R&S	ESCS30	A0304260	2016.06.02	2017.06.01	Conducted
Cable	SUNHNER	SUCOFLEX 100	/	2016.06.02	2017.06.01	Radiation
Cable	SUNHNER	SUCOFLEX 104	/	2016.06.02	2017.06.01	Radiation

4. Uncertainty of Evaluation

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2

Measurement	Frequency	Uncertainty
Conducted emissions	9kHz~30MHz	2.35dB
Radiated emissions	30MHz~1000MHz	2.45dB
	1G~18GHz	2.21dB
	18G~40GHz	1.96dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

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