FCC Radio Test Report

FCC ID: 2AB9T-M755M

FCC 47 CFR Part 15 Subpart C

Product： Tablet PC

Trade Name： N/A

Model Number： M755M

Issued for

Shenzhen Vastking Electronic Co., Ltd.

Building 6, ZhengZhong Industrial Park, Qiaotou Community, Fuyong, Baoan, Shenzhen, China

Issued by

Shenzhen STONE Testing Technology Co., Ltd.

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Website: www.stt-lab.org

TEST RESULT CERTIFICATION

Product	:	Tablet PC
Applicant	:	Shenzhen Vastking Electronic Co., Ltd.
Address	:	Building 6, ZhengZhong Industrial Park, Qiaotou Community, Fuyong, Baoan, Shenzhen, China
Manufacturer	:	Shenzhen Vastking Electronic Co., Ltd.
Address	:	Building 6, ZhengZhong Industrial Park, Qiaotou Community, Fuyong, Baoan, Shenzhen, China
Model No.	:	M755M
Standards	:	FCC Part 15 Subpart C (15.247)
Test Method	:	ANSI C63.4: 2003

The above equipment has been tested by Shenzhen STONE Testing Technology Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Test ..... :

Date of receipt of test item 2014-04-10

Date(s) of performance of test..... 2014-04-10 to 2014-04-18

Test Result..... : Pass

Testing by	:	Linna Liu	Date	:	2014-04-18
		(Linna Liu)			
Check by	:	Andy Huang	Date	:	2014-04-21
		(Andy Huang)			
Approved by	:	Ethan Chen	Date	:	2014-04-21
		(Ethan Chen)			

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1. TEST SUMMARY

Test procedures according to the technical standards:

FCC Part 15 Subpart C (15.247)			
Standard Section	Test Item	Judgment	Remark
15.207	AC Power Conducted Emission	PASS	
15.247(d)	Transmitter Radiated Emissions	PASS	
15.247(b)(3)	Output Power	PASS	
15.247(a)(2)	6dB RF Bandwidht	PASS	
15.247(e)	Power Spectral Density	PASS	
15.247(c)	Out of Band Conducted Spurious Emission	PASS	
15.247(d)	Band Edge Measurement	PASS	
15.247(c)	Occupied Bandwidth Measurement	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1)” N/A” denotes test is not applicable in this Test Report

(2)The test results of this report relate only to the tested sample(s) identified in this report.

1.1 TEST FACILITY

Shenzhen STONE Testing Technology Co., Ltd.

Add. : F/6, Bldg.12, Zhongxing Industrial City, Chuangye Rd., Nanshan District, Shenzhen, Guangdong, China

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

FCC Registration No.: 323508

1.2 MEASUREMENT UNCERTAINTY

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

A. Conducted Emission :

The measurement uncertainty is evaluated as ± 3.2 dB.

B. Radiated Measurement :

The measurement uncertainty is evaluated as ± 3.7 dB.

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet PC
Model Name	M755M
Additional Model Number(s)	N/A
Model Difference	N/A
Frequency Range	IEEE 802.11b/g/n(HT20): 2412~2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g:OFDM IEEE 802.11n:OFDM
RF Output Power	IEEE 802.11b: 9.46 dBm IEEE 802.11g: 8.73 dBm IEEE 802.11n: 9.21 dBm
Antenna Type	PIFA Antenna (Gain: 0 dBi)
Power Source	DC power from AC/DC Adapter DC power from USB cable by host system DC power by Li-ion Battery
Power Rating	AC/DC Adapter: Input: AC 120~240V 50/60 Hz Output: DC5V 2A DC 5.0V from USB cable Li-ion Battery DC 3.7V 2800 mAh
Remark	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

Note:

(1) This Test Report is FCC Part 15 Subpart C, 15.247 for IEEE 802.11b/g/n. And the Test procedure follows the FCC KDB 558075 D01 DTS Meas Guidance V02.

(2) For 15B compliance please refer the 15B test report.

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	WiFi TX Mode
Mode 2	WiFi TX 802.11b Mode
Mode 3	WiFi TX 802.11g Mode
Mode 4	WiFi TX 802.11n Mode

For Conducted Test	
Final Test Mode	Description
Mode 2	WiFi TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	WiFi TX Mode
Mode 2	WiFi TX 802.11b Mode
Mode 3	WiFi TX 802.11g Mode
Mode 4	WiFi TX 802.11n Mode

Note:

(1) Software used to control the EUT for staying in continuous transmitting mode was programmed. After verification, all tests were carried out with the worst case test modes as shown below.

(2) IEEE 802.11b Mode:
Channel (2412/2437/2462 MHz) with 1Mbps data rate were chosen for full testing.

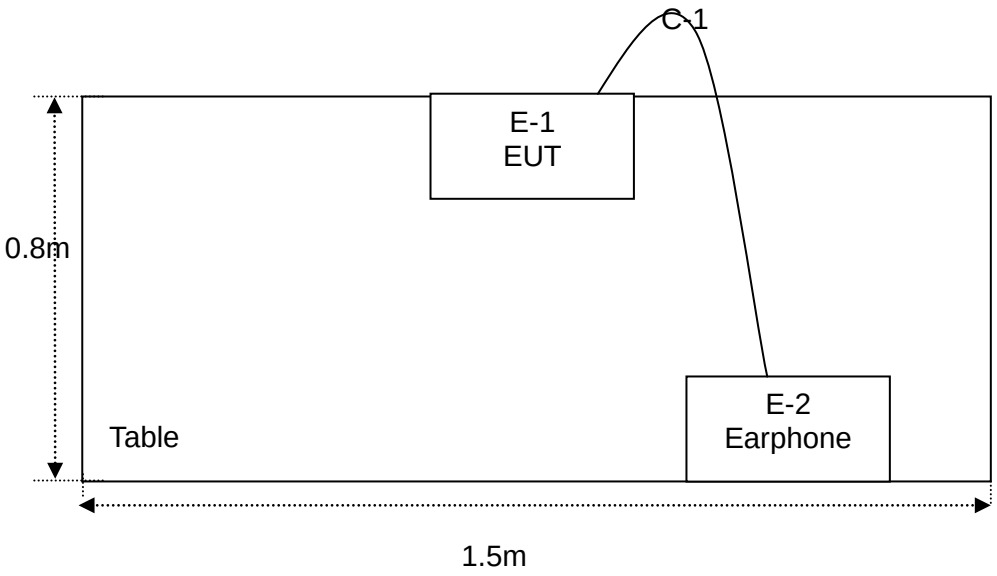
(3) IEEE 802.11g Mode:
Channel (2412/2437/2462 MHz) with 6 Mbps data rate were chosen for full testing.

(4) IEEE 802.11n(HT20) Mode:
Channel (2412/2437/2462 MHz) with 6.5 Mbps data rate were chosen for full testing.

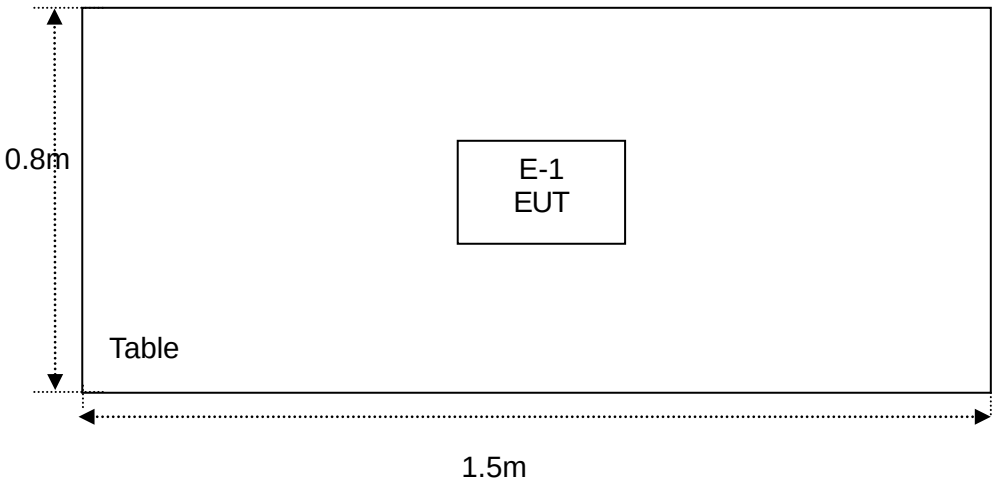
(5) By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that “X axis” position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

2.3 DESCRIPTION OF TEST SETUP

Conducted Emission



Radiated Emission



2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Tablet PC	Vastking	M755M	N/A	EUT
E-2	Earphone	Vastking	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	Audio Cable

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” means “shielded” “with core”; “NO” means “unshielded” “without core”.

2.5 EUT Exercise Software

Test Software: WIFI TEST.apk

IEEE 802.11b:The command set for RF power-DEF
IEEE 802.11g:The command set for RF power-DEF
IEEE 802.11n:The command set for RF power-DEF

3. CONDUCTED EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Quasi-peak	Average
	dBuV	dBuV
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

3.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal 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.

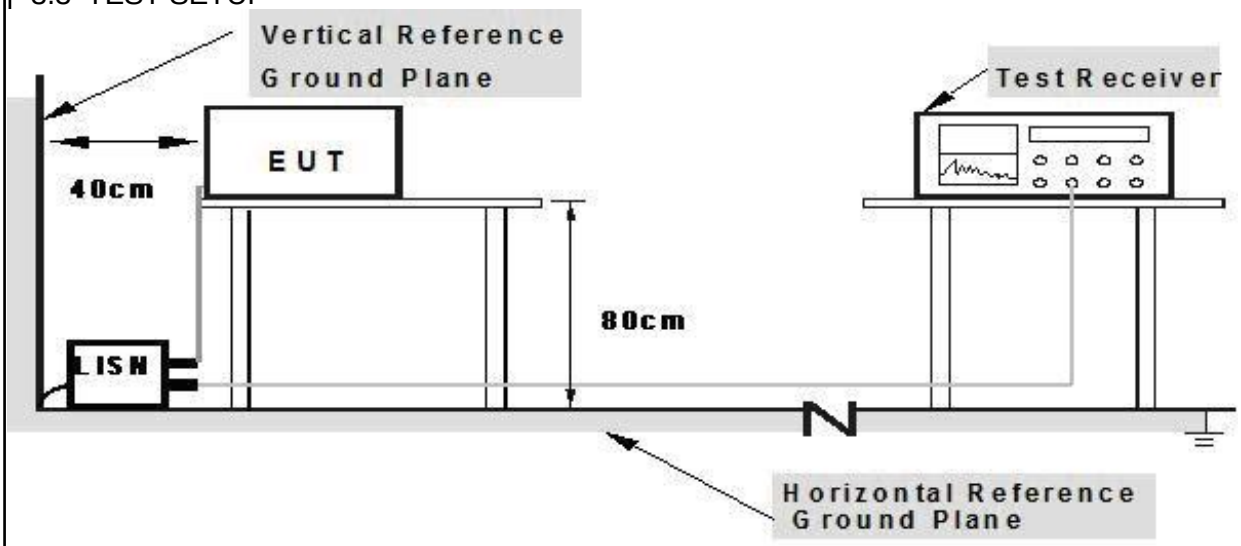
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

c. 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.

d. LISN at least 80 cm from nearest part of EUT chassis.

e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 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

3.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
LISN	R&S	NSLK81	8126466	Jul. 06, 2012	Jul. 05, 2014	1 year
LISN	R&S	NSLK81	8126487	Dec. 25, 2012	Dec. 24, 2013	1 year
50Ω Switch	ANRITSU CORP	MP59B	6200983704	Jul. 06, 2012	Jul. 05, 2014	1 year
Test Cable	N/A	C01	N/A	Jul. 06, 2012	Jul. 05, 2014	1 year
Test Cable	N/A	C02	N/A	Jul. 06, 2012	Jul. 05, 2014	1 year
Test Cable	N/A	C03	N/A	Jul. 06, 2012	Jul. 05, 2014	1 year
EMI Test Receiver	R&S	ESCI	1166.595	Jul. 06, 2012	Jul. 05, 2014	1 year
Passive Voltage Probe	ESH2-Z3	R&S	100196	Jul. 06, 2012	Jul. 05, 2014	1 year

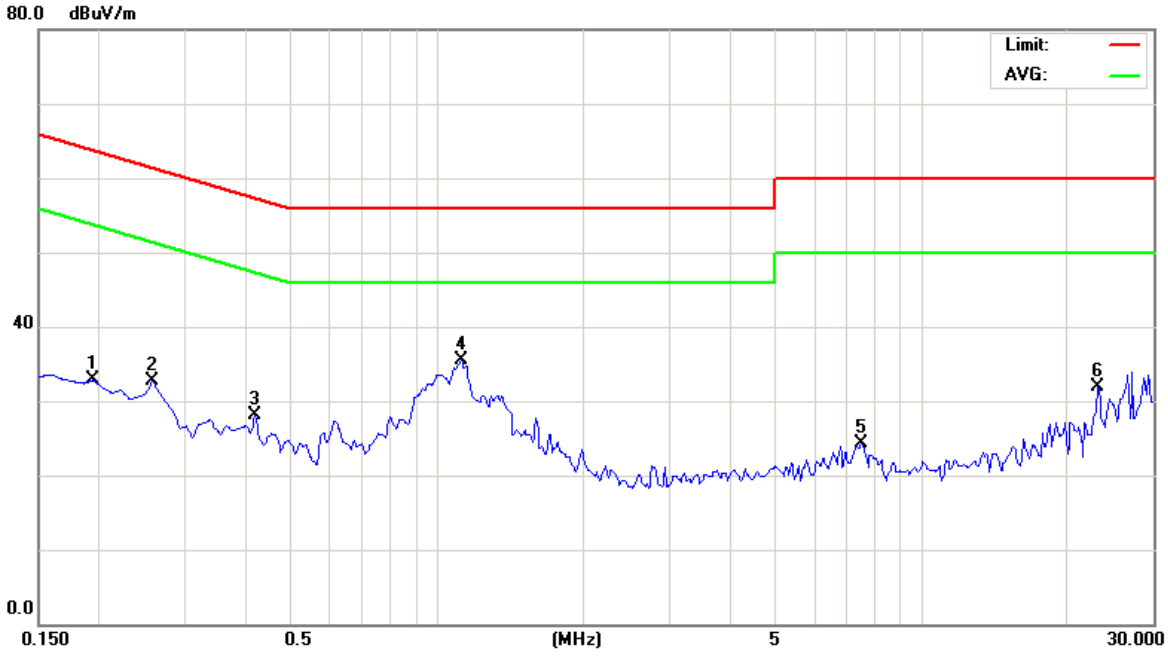
3.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

3.6 TEST RESULTS

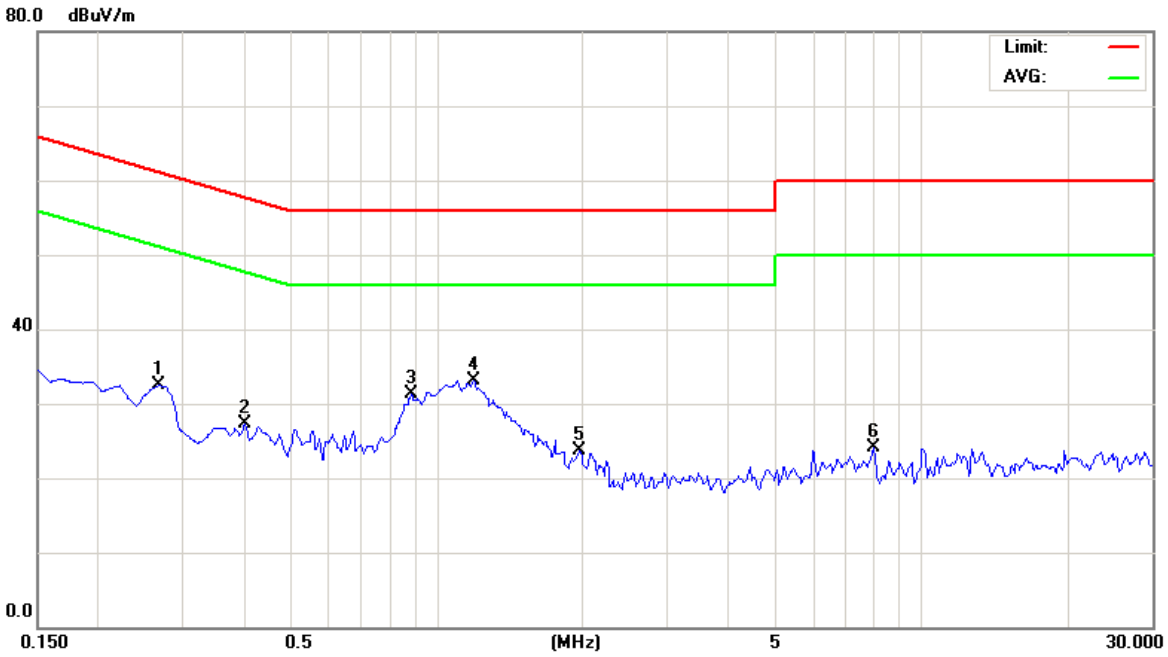
EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date :	2014-04-16
Test Mode：	Mode 1	Phase :	Line
Test Voltage ：	120V/ 60Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1		0.1950	22.80	10.03	32.83	63.82	-30.99	peak
2		0.2580	22.58	10.03	32.61	61.50	-28.89	peak
3		0.4200	18.11	10.03	28.14	57.45	-29.31	peak
4	*	1.1220	25.36	10.10	35.46	56.00	-20.54	peak
5		7.5120	13.96	10.25	24.21	60.00	-35.79	peak
6		23.1270	21.43	10.53	31.96	60.00	-28.04	peak



EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date :	2014-04-16
Test Mode：	Mode 1	Phase :	Neutral
Test Voltage ：	120V/ 60Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1		0.2670	22.33	10.14	32.47	61.21	-28.74	peak
2		0.4020	17.07	10.14	27.21	57.81	-30.60	peak
3		0.8880	21.18	10.17	31.35	56.00	-24.65	peak
4	*	1.1940	22.93	10.20	33.13	56.00	-22.87	peak
5		1.9770	13.34	10.27	23.61	56.00	-32.39	peak
6		7.9890	13.78	10.35	24.13	60.00	-35.87	peak



4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMIT (Frequency Range 9KHz-1000MHz)

20 dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table bellow has to be followed.

FREQUENCY (MHz)	Field Strength (uV/m at 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

RADIATED EMISSION LIMITS (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m)(at 3 M)		Class B (dBuV/m)(at 3 M)	
	Peak	Average		Peak
Above 1000	80	60	74	54

Note:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

The following table is the setting of the receiver

Receiver Parameter	Setting
Attenuation	Auto
Start Frequency~ Stop Frequency	9kHz~150kHz/ RB 200Hz for QP
Start Frequency~ Stop Frequency	150kHz~30MHz/ RB 9kHz for QP
Start Frequency~ Stop Frequency	30MHz~1000MHz/ RB120kHz for QP

The following table is the setting of the spectrum

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10^{th} carrier harmonic
RB/ VB (emission in restricted band)	1MHz/ 3 MHz for Peak, 1MHz/ 10Hz for Average

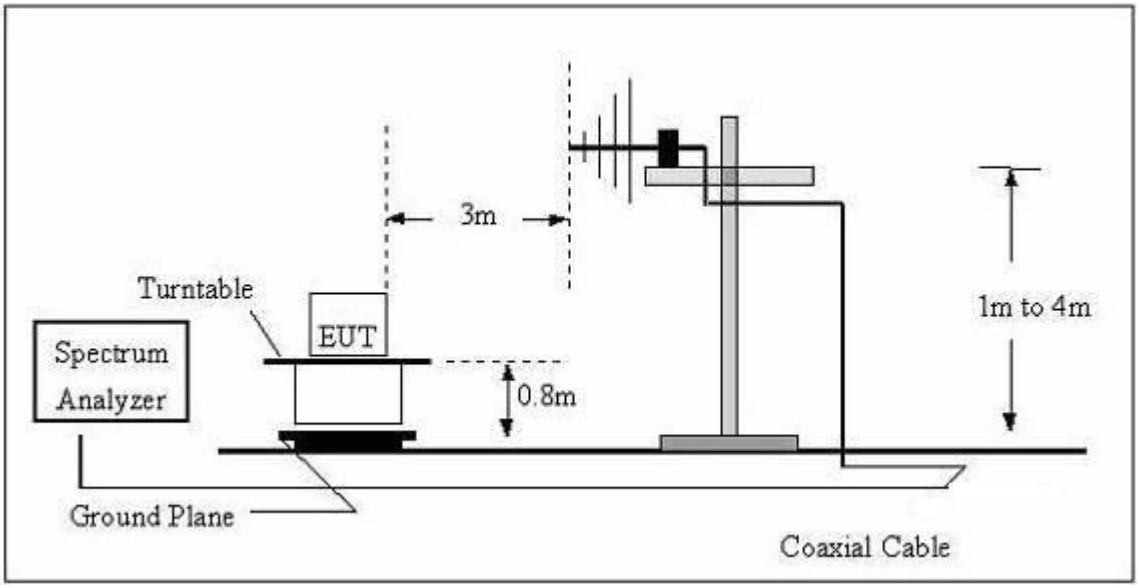
4.2 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. 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 Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.
e. 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.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

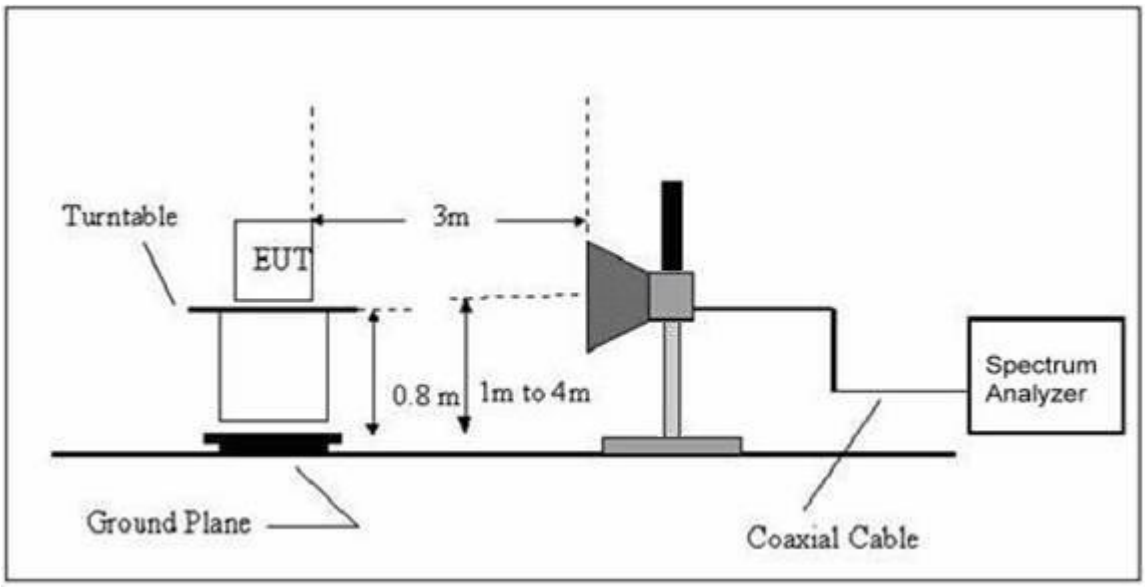
Note:
Both horizontal and vertical antenna polarities were tested.
And performed pretest to three orthogonal axis. The worst case emissions were reported.

4.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



4.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Broadband Antenna	R&S	VULB 9168	VULB 9168-456	Jul. 06, 2012	Jul. 05, 2014	1 year
Test Cable	N/A	R-01	N/A	Dec. 25, 2012	Dec. 24, 2013	1 year
Test Cable	N/A	R-02	N/A	Dec. 25, 2012	Dec. 24, 2013	1 year
EMI Test Receiver	R&S	ESCI	101324	Jul. 06, 2012	Jul. 05, 2014	1 year
Antenna Mast	EM	SC100_1	N/A	N/A	N/A	N/A
Turn Table	EM	SC100	060531	N/A	N/A	N/A
50Ω Switch	Anritsu Corp	MP59B	6200983705	Jul. 06, 2012	Jul. 05, 2014	1 year
Spectrum Analyzer	R&S	FSP40	100154	Jul. 06, 2012	Jul. 05. 2014	1 year
Horn Antenna	R&S	HF906	10029	Jul. 06, 2012	Jul. 05. 2014	1 year
Amplifier	EM	EM-30180	060538	Jul. 06, 2012	Jul. 05. 2014	1 year

4.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS

4.6.1 TEST RESULTS (Bellow 1GHz)

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date :	2014-04-16
Test Mode ：	Mode 1	Polarization :	Horizontal
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	112.2500	52.85	-14.40	38.45	43.50	-5.05	peak	
2		215.2600	51.71	-14.20	37.51	43.50	-5.99	peak	
3		412.6900	49.77	-9.08	40.69	46.00	-5.31	peak	
4		486.3500	48.77	-8.03	40.74	46.00	-5.26	peak	
5		556.3200	46.72	-7.10	39.62	46.00	-6.38	peak	
6		816.4200	42.51	-3.80	38.71	46.00	-7.29	peak	

Remark:
Factor = Antenna Factor + Cable Loss.

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date :	2014-04-16
Test Mode ：	Mode 1	Polarization :	Vertical
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	32.0500	49.87	-13.45	36.42	40.00	-3.58	peak	
2		99.3600	50.18	-13.13	37.05	43.50	-6.45	peak	
3		167.4500	54.50	-16.66	37.84	43.50	-5.66	peak	
4		215.4900	50.93	-14.19	36.74	43.50	-6.76	peak	
5		354.2600	51.23	-10.20	41.03	46.00	-4.97	peak	
6		553.4700	48.92	-7.10	41.82	46.00	-4.18	peak	

Remark:
Factor = Antenna Factor + Cable Loss.

4.6.2 TEST RESULTS (Above 1GHz)

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date：	2014-04-16
Test Mode ：	B Mode 2412 TX Mode	Polarization：	Horizontal
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.890	41.19	6.77	47.96	74.00	-26.04	peak	
2	*	4823.890	31.48	6.77	38.25	54.00	-15.75	AVG	

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date：	2014-04-16
Test Mode ：	B Mode 2412 TX Mode	Polarization：	Vertical
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.890	40.85	8.77	49.62	74.00	-24.38	peak	
2	*	4823.890	31.28	8.77	40.05	54.00	-13.95	AVG	

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date :	2014-04-16
Test Mode ：	B Mode 2437 TX Mode	Polarization :	Horizontal
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.910	41.84	6.78	48.62	74.00	-25.38	peak	
2	*	4873.910	32.47	6.78	39.25	54.00	-14.75	AVG	

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date :	2014-04-16
Test Mode ：	B Mode 2437 TX Mode	Polarization :	Vertical
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.910	41.27	8.78	50.05	74.00	-23.95	peak	
2	*	4873.910	31.58	8.78	40.36	54.00	-13.64	AVG	

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date :	2014-04-16
Test Mode ：	B Mode 2462 TX Mode	Polarization :	Horizontal
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.890	41.44	6.80	48.24	74.00	-25.76	peak	
2	*	4923.890	32.87	6.80	39.67	54.00	-14.33	AVG	

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date :	2014-04-16
Test Mode ：	B Mode 2462 TX Mode	Polarization :	Vertical
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.890	41.83	8.80	50.63	74.00	-23.37	peak	
2	*	4923.890	31.36	8.80	40.16	54.00	-13.84	AVG	

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date :	2014-04-16
Test Mode ：	G Mode 2412 TX Mode	Polarization :	Horizontal
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.950	40.48	6.77	47.25	74.00	-26.75	peak	
2	*	4823.950	31.62	6.77	38.39	54.00	-15.61	AVG	

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date :	2014-04-16
Test Mode ：	G Mode 2412 TX Mode	Polarization :	Vertical
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.950	39.29	8.77	48.06	74.00	-25.94	peak	
2	*	4823.950	31.62	8.77	40.39	54.00	-13.61	AVG	

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date :	2014-04-16
Test Mode ：	G Mode 2437 TX Mode	Polarization :	Horizontal
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.920	40.09	6.78	46.87	74.00	-27.13	peak	
2	*	4873.920	31.43	6.78	38.21	54.00	-15.79	AVG	

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date :	2014-04-16
Test Mode ：	G Mode 2437 TX Mode	Polarization :	Vertical
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.920	39.80	8.78	48.58	74.00	-25.42	peak	
2	*	4873.920	31.23	8.78	40.01	54.00	-13.99	AVG	

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date :	2014-04-16
Test Mode ：	G Mode 2462 TX Mode	Polarization :	Horizontal
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.940	39.59	6.80	46.39	74.00	-27.61	peak	
2	*	4923.940	31.66	6.80	38.46	54.00	-15.54	AVG	

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date :	2014-04-16
Test Mode ：	G Mode 2462 TX Mode	Polarization :	Vertical
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.940	39.95	8.80	48.75	74.00	-25.25	peak	
2	*	4923.940	31.37	8.80	40.17	54.00	-13.83	AVG	

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date：	2014-04-16
Test Mode ：	N Mode 2412 TX Mode	Polarization：	Horizontal
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.960	40.21	6.77	46.98	74.00	-27.02	peak	
2	*	4823.960	31.65	6.77	38.42	54.00	-15.58	AVG	

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date：	2014-04-16
Test Mode ：	N Mode 2412 TX Mode	Polarization：	Vertical
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.960	39.68	8.77	48.45	74.00	-25.55	peak	
2	*	4823.960	31.12	8.77	39.89	54.00	-14.11	AVG	

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date：	2014-04-16
Test Mode ：	N Mode 2437 TX Mode	Polarization：	Horizontal
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.950	39.72	6.78	46.50	74.00	-27.50	peak	
2	*	4873.950	32.01	6.78	38.79	54.00	-15.21	AVG	

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date：	2014-04-16
Test Mode ：	N Mode 2437 TX Mode	Polarization：	Vertical
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.950	39.93	8.78	48.71	74.00	-25.29	peak	
2	*	4873.950	31.27	8.78	40.05	54.00	-13.95	AVG	

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date :	2014-04-16
Test Mode ：	N Mode 2462 TX Mode	Polarization :	Horizontal
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.960	39.99	6.80	46.79	74.00	-27.21	peak	
2	*	4923.960	31.63	6.80	38.43	54.00	-15.57	AVG	

EUT：	Tablet PC	Model Name. ：	M755M
Temperature：	26 ℃	Relative Humidity：	56%
Pressure：	1010hPa	Test Date :	2014-04-16
Test Mode ：	N Mode 2462 TX Mode	Polarization :	Vertical
Test Power ：	AC 120V/60 Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.960	39.95	8.80	48.75	74.00	-25.25	peak	
2	*	4923.960	31.56	8.80	40.36	54.00	-13.64	AVG	

5. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

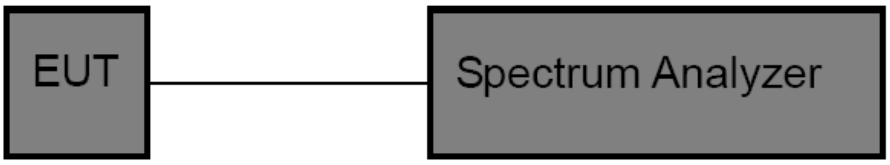
5.1 LIMITS

Peak Output Power	For systems using digital modulation in 2400~2483.5MHz, the Limit for peak output power is 30dBm.

5.2 TEST PROCEDURE

The EUT was directly connected to the power meter and antenna output port as show in the block diagram as bellow.

5.3 TEST SETUP



5.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Spectrum Analyzer	R&S	FSP40	100154	Jul. 06, 2012	Jul. 05. 2014	1 year

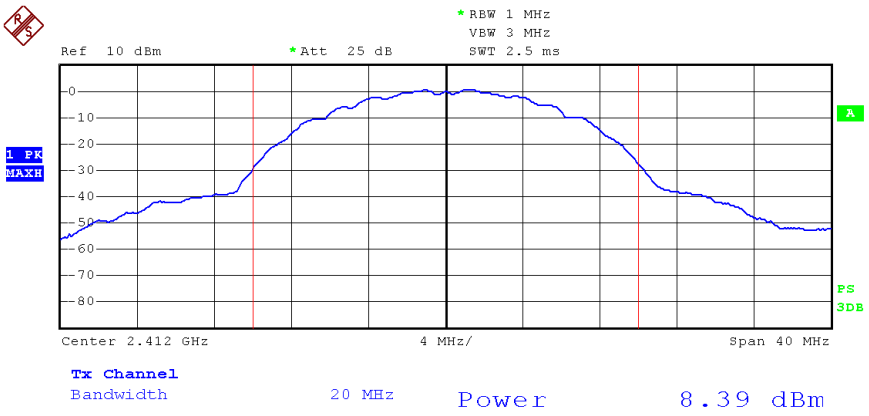
5.5 EUT OPERATING CONDITIONS

The EUT was set to continuously transmitting in the maximum power during the test.

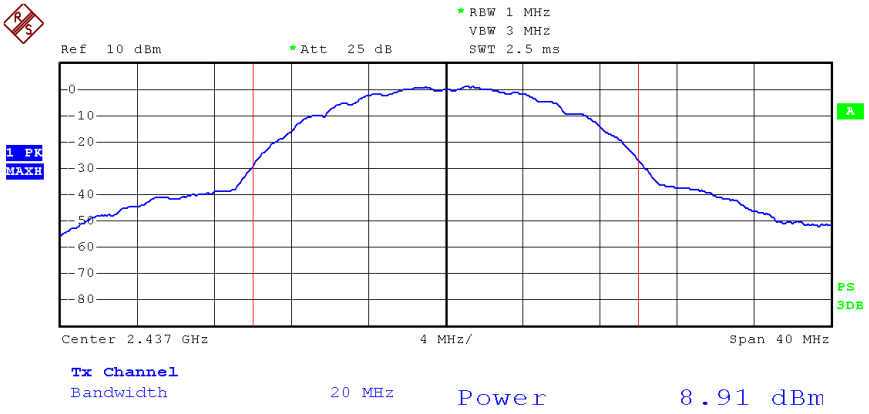
5.6 TEST RESULTS

801.11b Mode (1Mbps)			
Test Channel	**Frequency (MHz)**	**Peak Output Power (dBm)**	**Limit (dBm)**
CH01	2412	8.39	<30
CH 06	2437	8.91	
CH11	2462	9.46	

B Mode 2412MHz

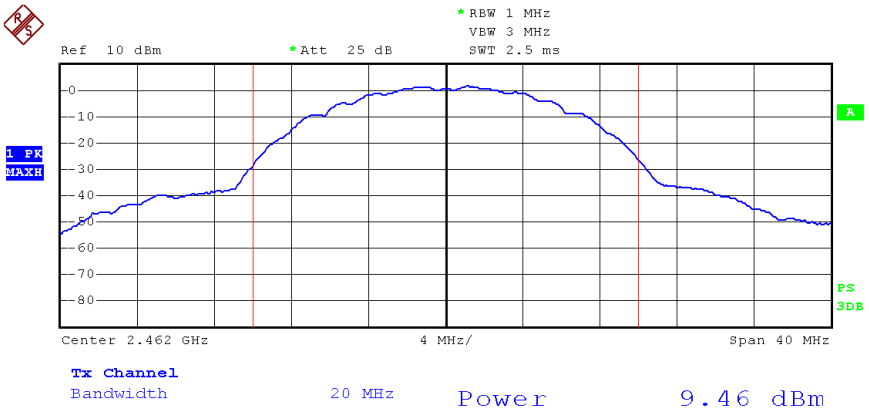


B Mode 2437 MHz



Date: 17.APR.2014 07:03:08

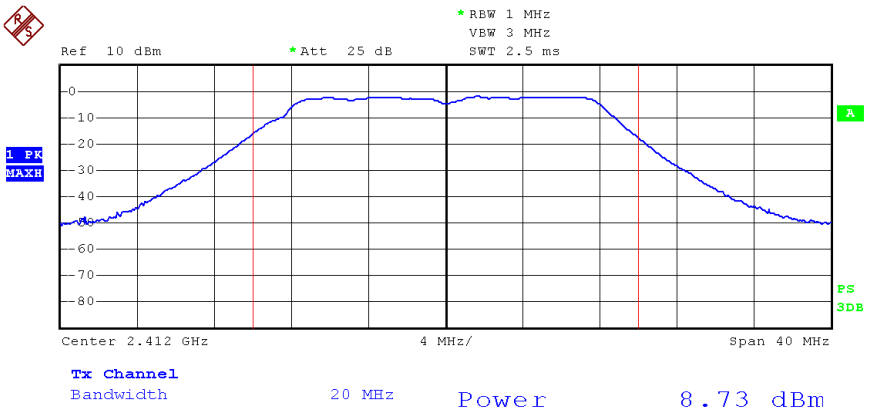
B Mode 2462MHz



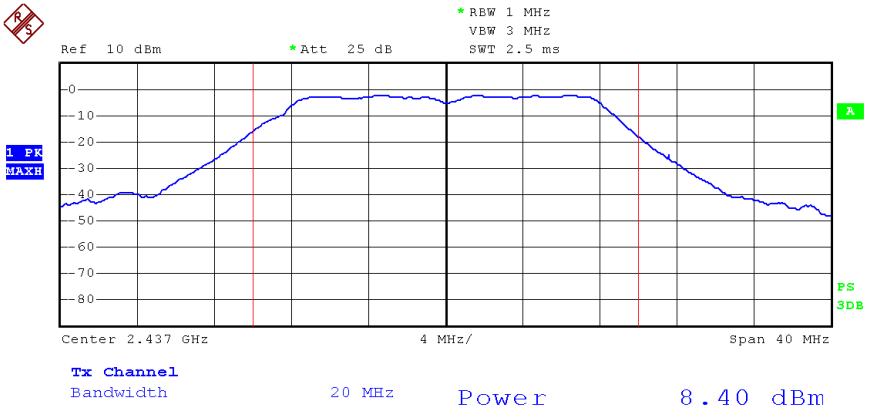
Date: 17.APR.2014 07:05:17

801.11g Mode (6Mbps)			
Test Channel	**Frequency (MHz)**	**Peak Output Power (dBm)**	**Limit (dBm)**
CH01	2412	8.73	<30
CH 06	2437	8.40	
CH11	2462	8.58	

G Mode 2412MHz

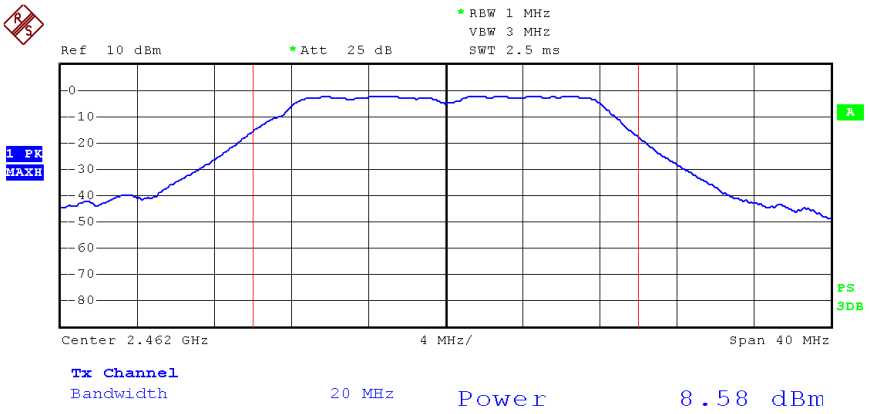


G Mode 2437 MHz



Date: 17.APR.2014 07:15:27

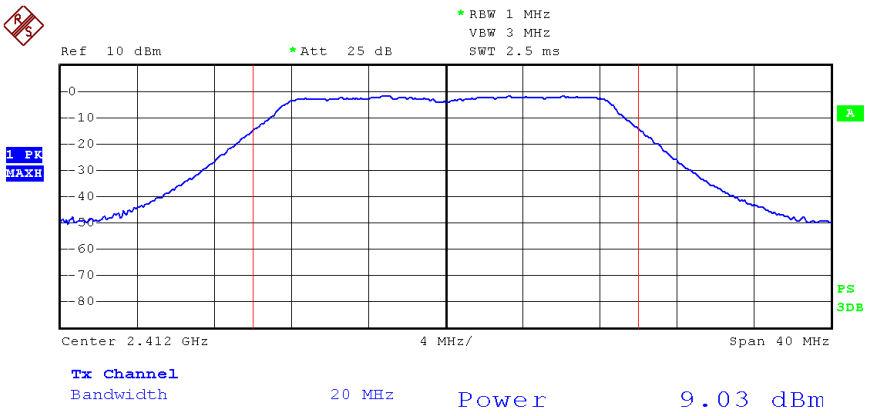
G Mode 2462MHz



Date: 17.APR.2014 07:11:54

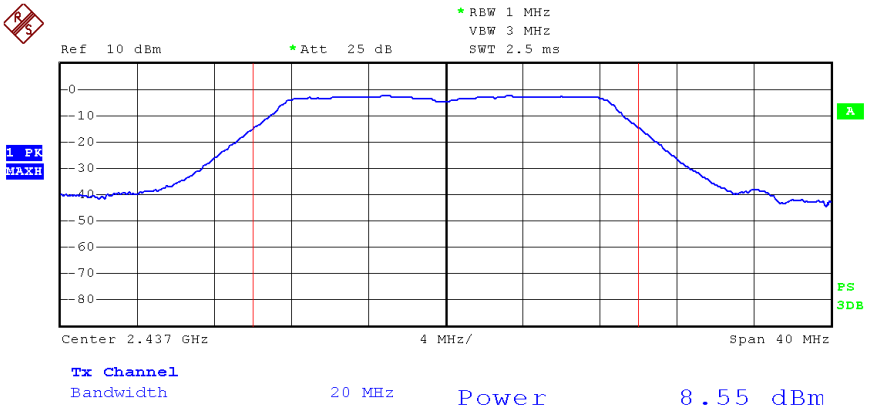
801.11n(HT20) Mode (6.5 Mbps)			
Test Channel	**Frequency (MHz)**	**Peak Output Power (dBm)**	**Limit (dBm)**
CH01	2412	9.03	<30
CH 06	2437	8.55	
CH11	2462	9.21	

N Mode 2412MHz



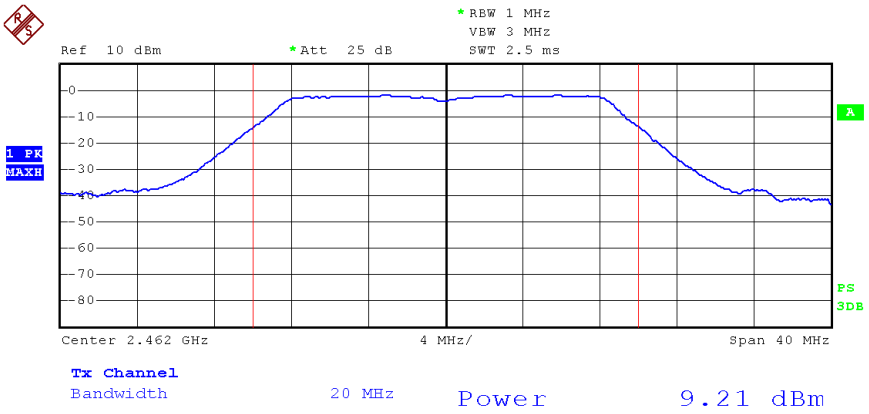
Date: 17.APR.2014 07:19:09

N Mode 2437 MHz



Date: 17.APR.2014 07:21:03

N Mode 2462MHz



Date: 17.APR.2014 07:22:42

6. OCCUPIED BANDWIDTH MEASUREMENT

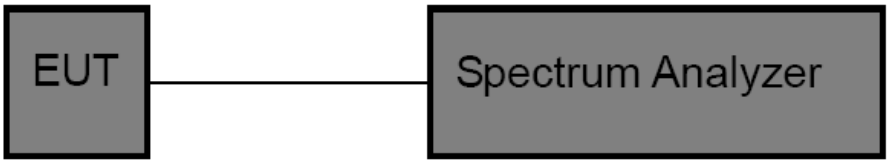
6.1 LIMITS

6dB Bandwidth	For systems using digital modulation in 2400~2483.5MHz, the minimum 6 dB band-width shall be at least 500 kHz.
99% Occupied Bandwidth	N/A

6.2 TEST PROCEDURE

The EUT was directly connected to the power meter and antenna output port as show in the block diagram as bellow.

6.3 TEST SETUP



6.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Spectrum Analyzer	R&S	FSP40	100154	Jul. 06, 2012	Jul. 05. 2014	1 year

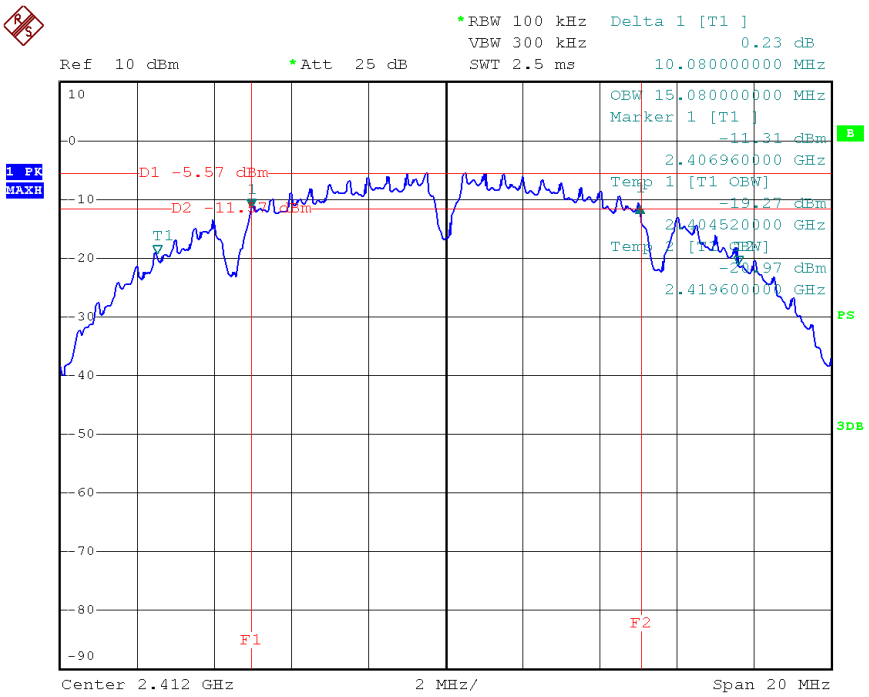
6.5 EUT OPERATING CONDITIONS

The EUT was set to continuously transmitting in the maximum power during the test.

6.6 TEST RESULTS

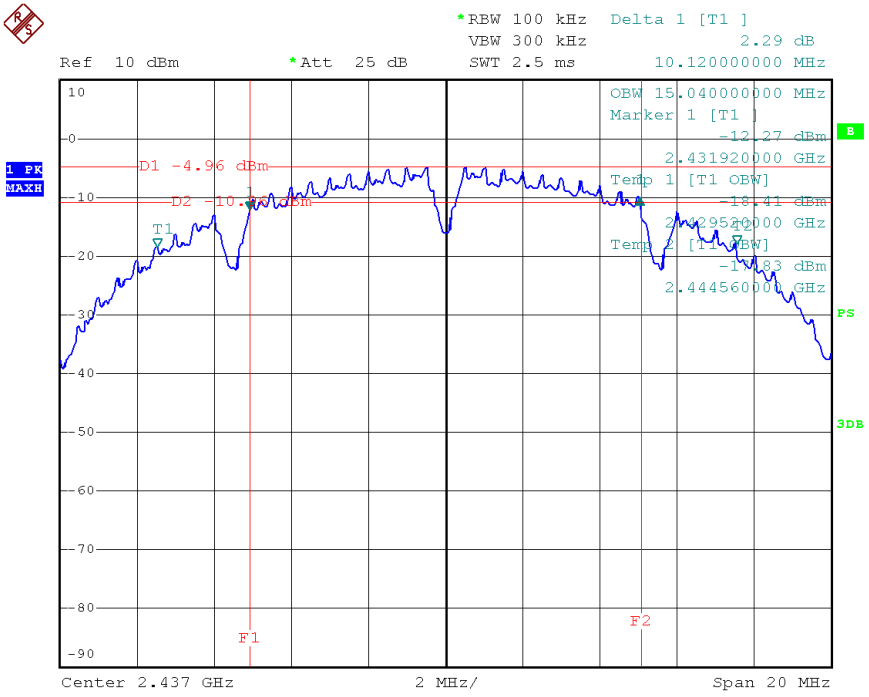
801.11b Mode (1Mbps)			
Frequency (MHz)	**6dB Bandwidth (MHz)**	**99% OBW (MHz)**	**Limit**
2412	10.08	15.08	>=500 kHz
2437	10.12	15.04	
2462	10.08	15.08	

B Mode 2412 MHz



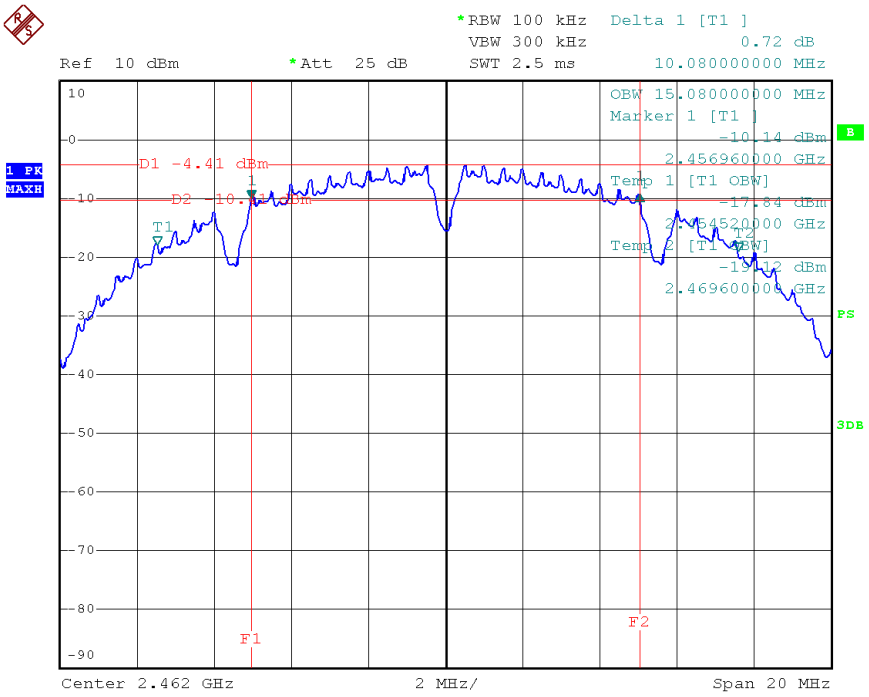
Date: 17.APR.2014 07:01:39

B Mode 2437 MHz



Date: 17.APR.2014 07:04:16

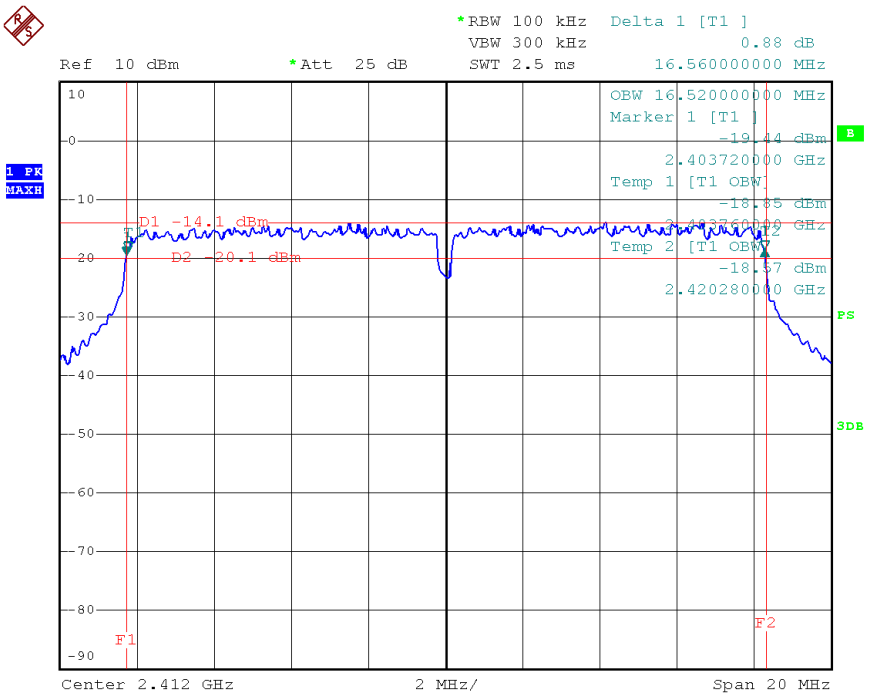
B Mode 2462 MHz



Date: 17.APR.2014 07:06:07

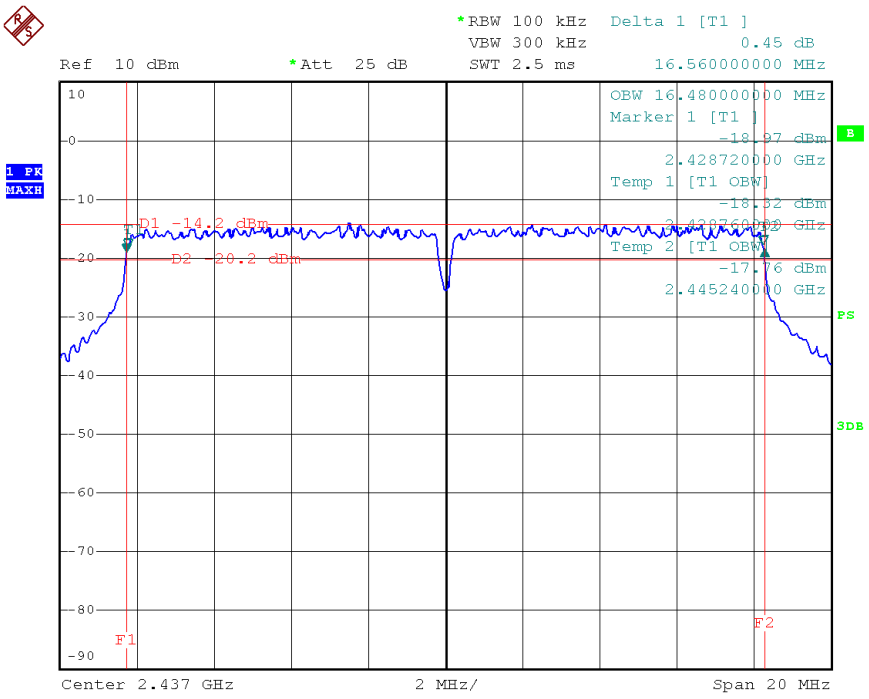
801.11g Mode (6 Mbps)			
Frequency (MHz)	**6dB Bandwidth (MHz)**	**99% OBW (MHz)**	**Limit**
2412	16.56	16.52	>=500 kHz
2437	16.56	16.48	
2462	16.64	16.48	

G Mode 2412 MHz



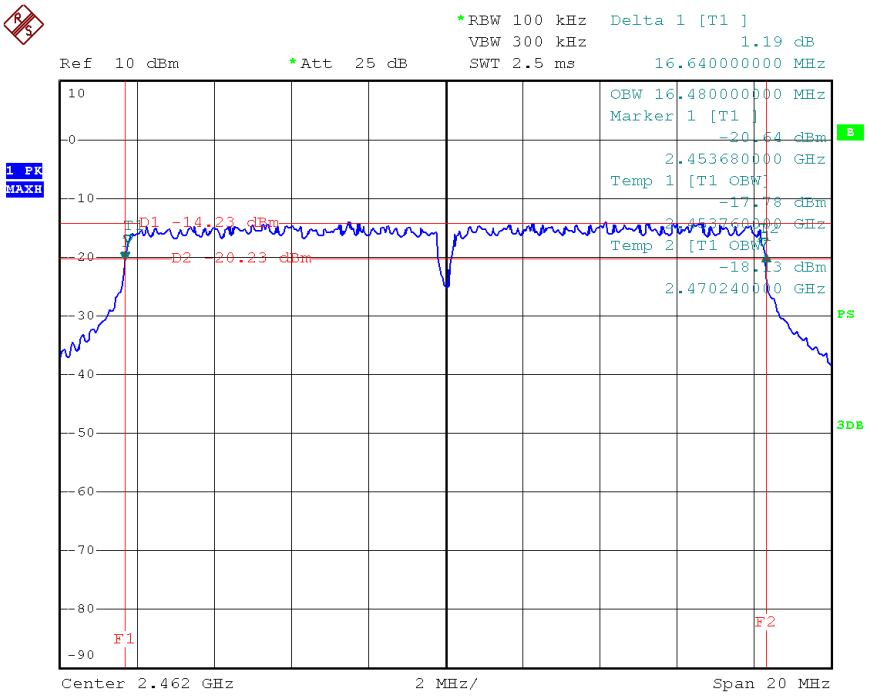
Date: 17.APR.2014 07:18:00

G Mode 2437 MHz



Date: 17.APR.2014 07:16:47

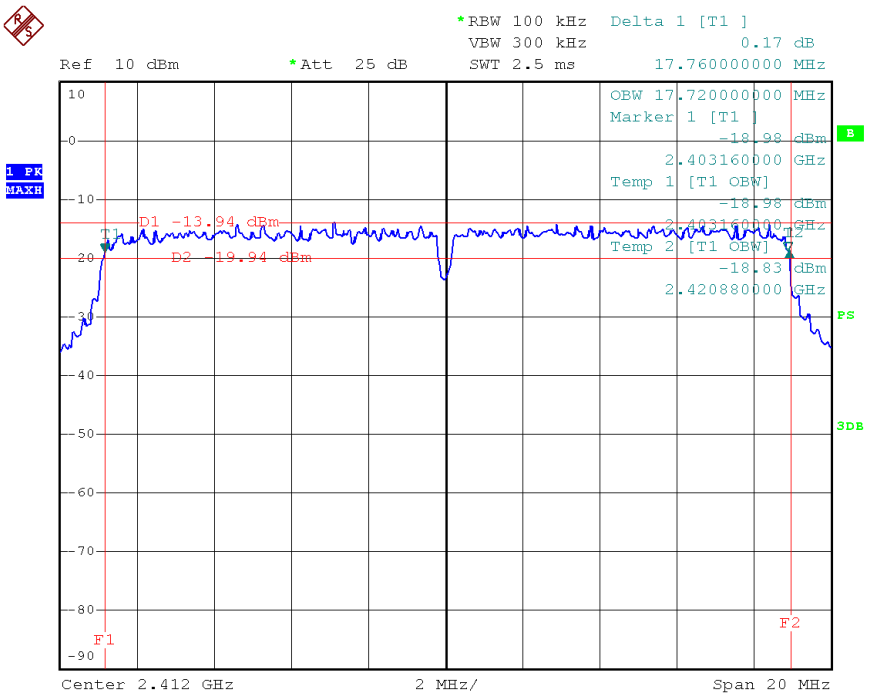
G Mode 2462 MHz



Date: 17.APR.2014 07:14:08

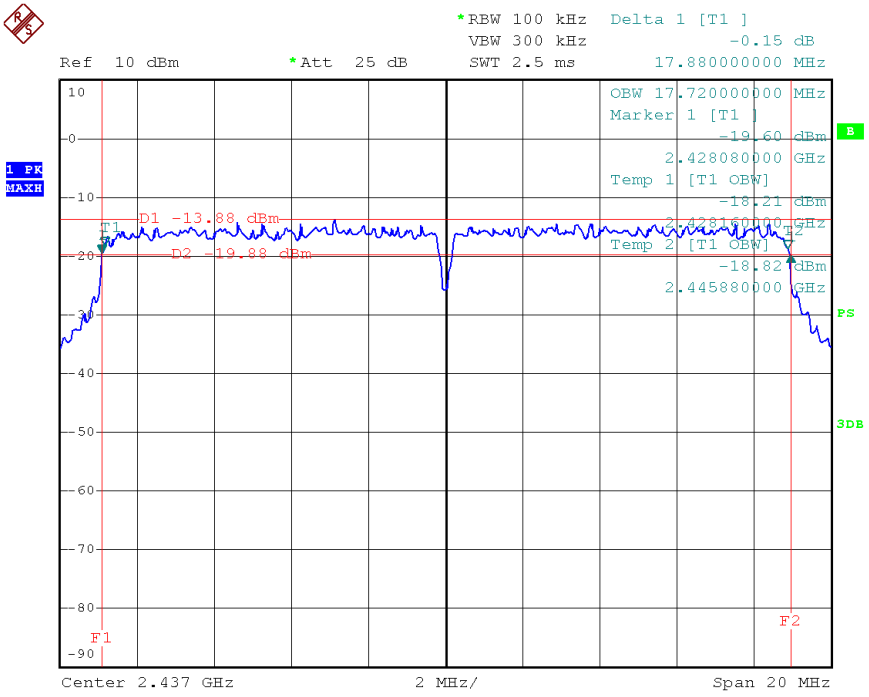
801.11n Mode (6.5 Mbps)			
Frequency (MHz)	**6dB Bandwidth (MHz)**	**99% OBW (MHz)**	**Limit**
2412	17.76	17.72	>=500 kHz
2437	17.88	17.72	
2462	17.84	17.72	

N Mode 2412 MHz



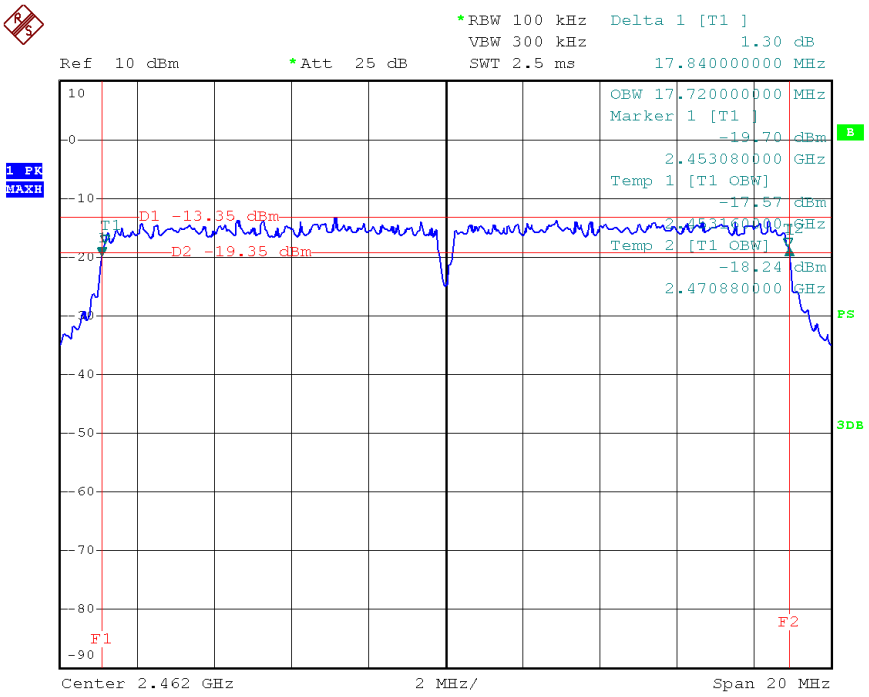
Date: 17.APR.2014 07:19:53

N Mode 2437 MHz



Date: 17.APR.2014 07:21:57

N Mode 2462 MHz



Date: 17.APR.2014 07:23:52

7. POWER DENSITY

7.1 LIMITS

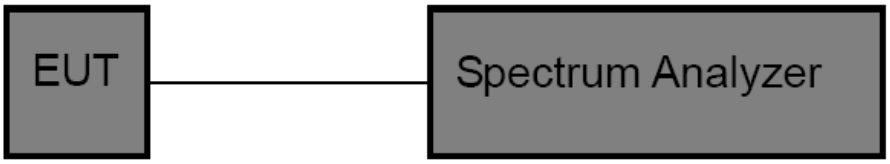
Power Density	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission

7.2 TEST PROCEDURE

The EUT was directly connected to the power meter and antenna output port as show in the block diagram as bellow.

a. Set spectrum center frequency to DTS channel center frequency.
b. Set the span to 1.5 times the DTS bandwidth.
c. Set the RBW to : 3kHz≤RBW≤100kHz
d. Set the VBW to : VBW≥3 RBW
e. Detector= Peak.
f. Sweep time= auto couple
g. Trace mode= maxhold.
h. Allow trace to fully stabilize.
i. Use the peak marker function to determine the maximum amplitude level within the RBW.
j. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.3 TEST SETUP



7.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Spectrum Analyzer	R&S	FSP40	100154	Jul. 06, 2012	Jul. 05. 2014	1 year

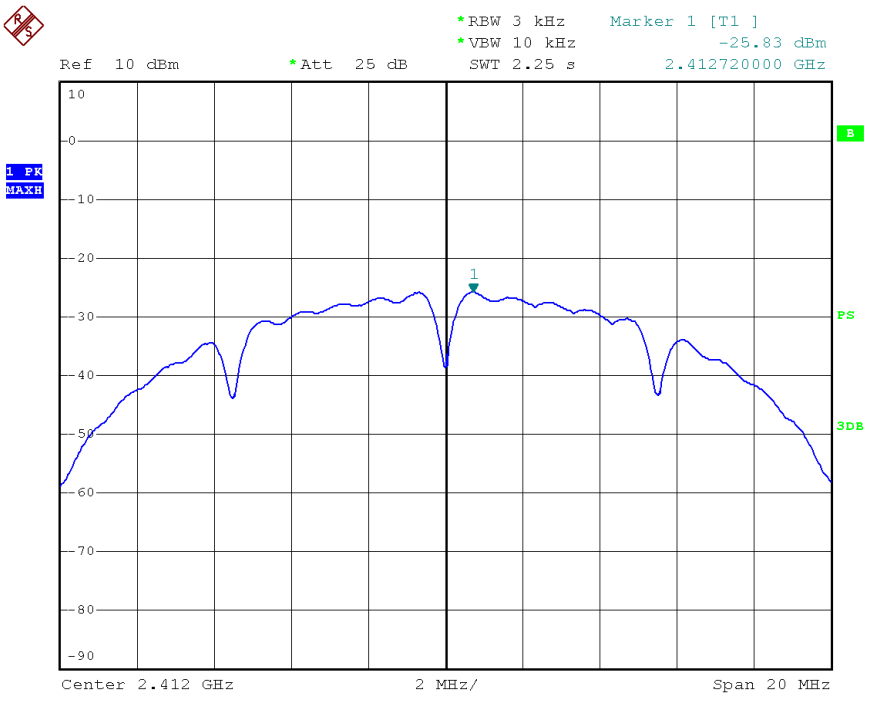
7.5 EUT OPERATING CONDITIONS

The EUT was set to continuously transmitting in the maximum power during the test.

7.6 TEST RESULTS

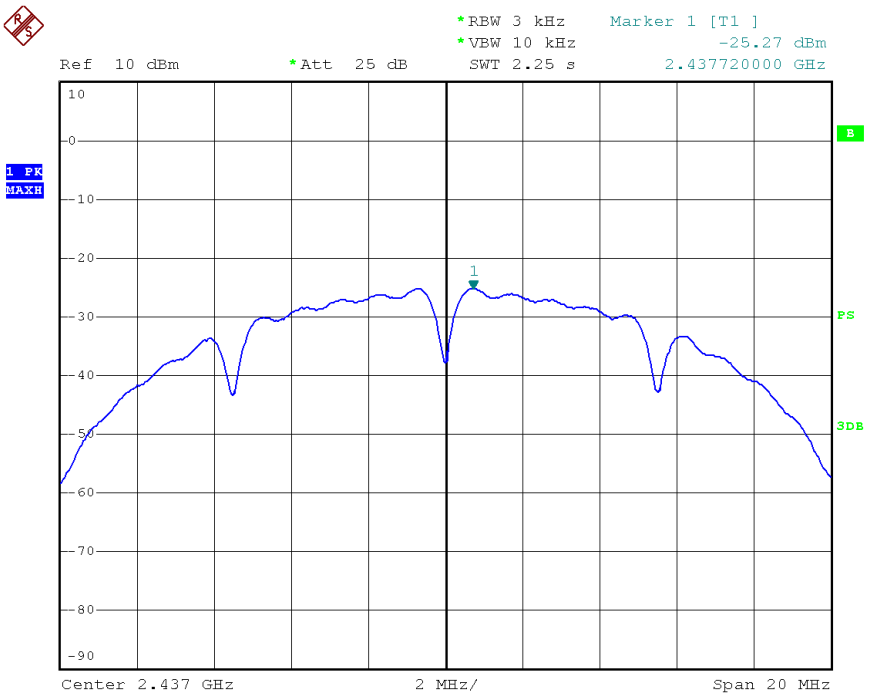
801.11b Mode (1 Mbps)		
Frequency (MHz)	**Power Density (dBm/ 3kHz)**	**Limit (dBm)**
2412	-25.83	<8
2437	-25.27	
2462	-24.58	

B Mode 2412 MHz



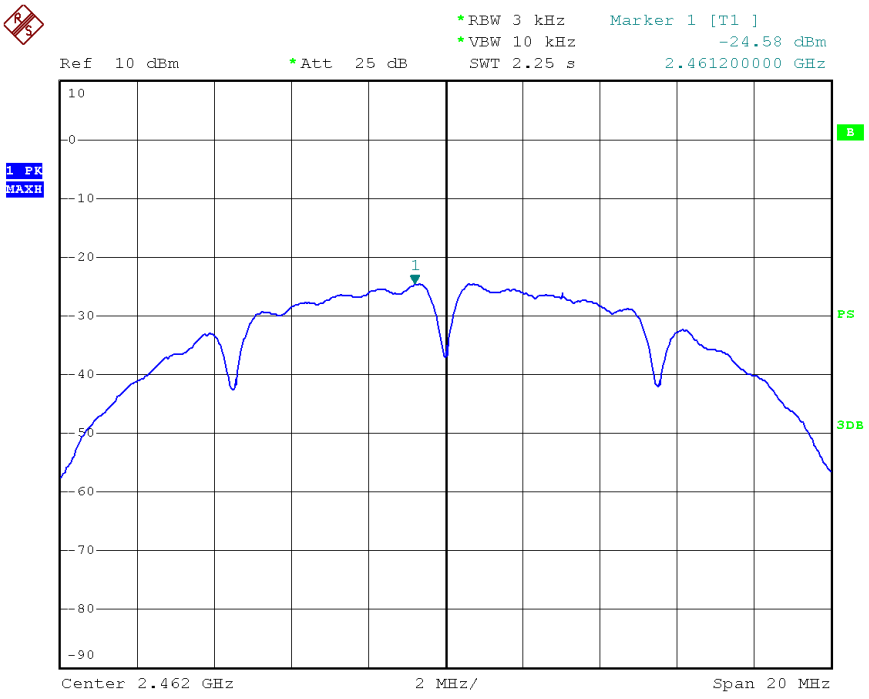
Date: 17.APR.2014 07:39:36

B Mode 2437 MHz



Date: 17.APR.2014 07:40:02

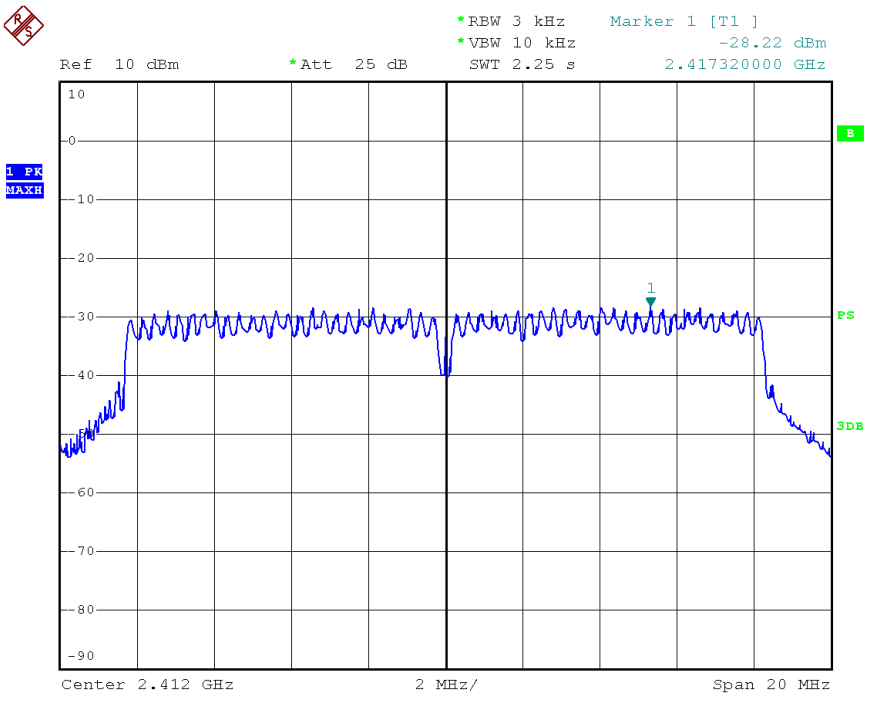
B Mode 2462 MHz



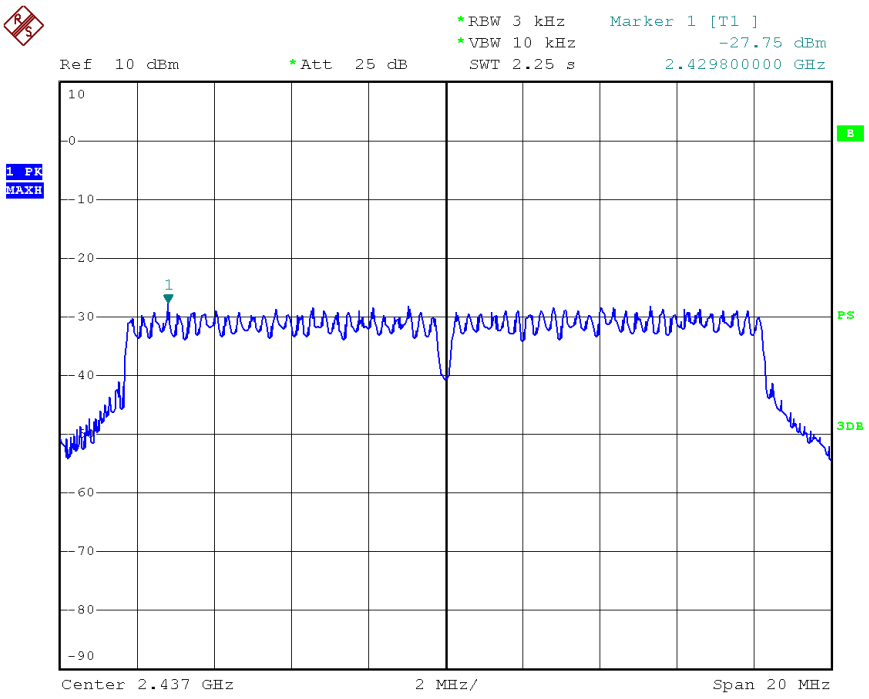
Date: 17.APR.2014 07:40:48

801.11g Mode (6 Mbps)		
Frequency (MHz)	**Power Density (dBm/ 3kHz)**	**Limit (dBm)**
2412	-28.22	<8
2437	-27.75	
2462	-28.07	

G Mode 2412 MHz

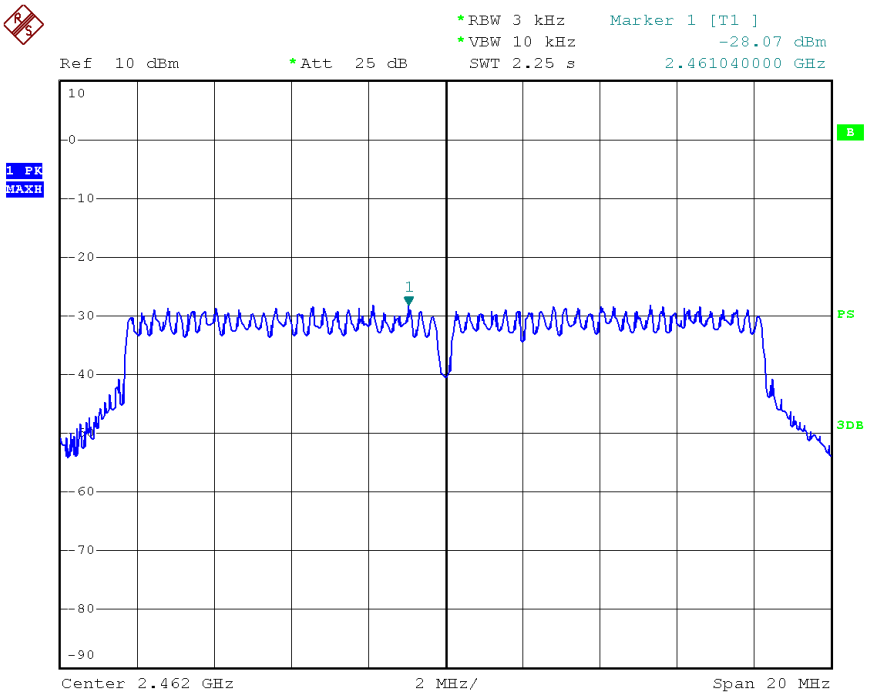


G Mode 2437 MHz



Date: 17.APR.2014 07:35:04

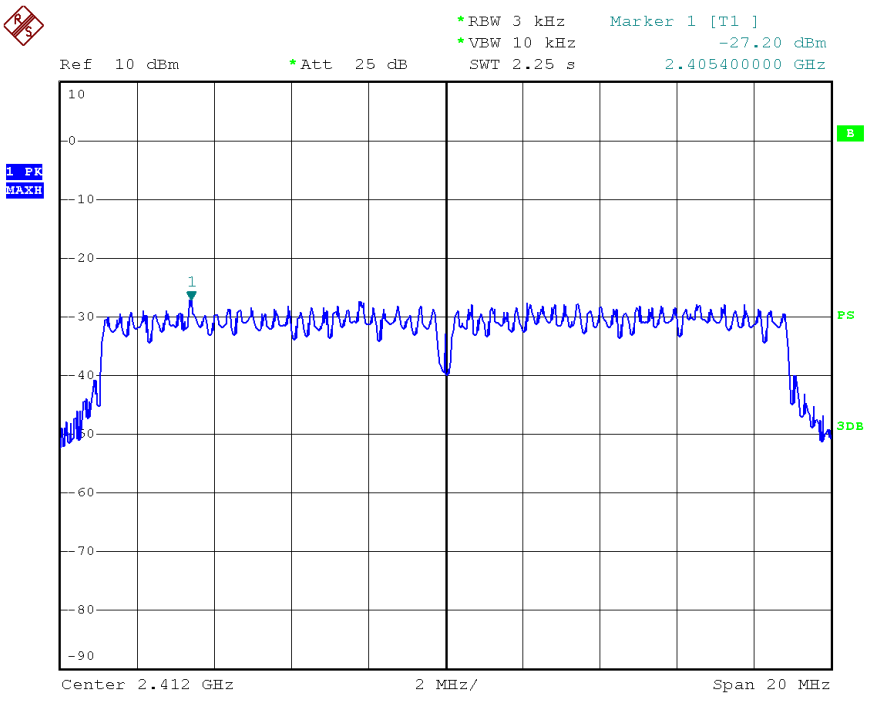
G Mode 2462 MHz



Date: 17.APR.2014 07:34:16

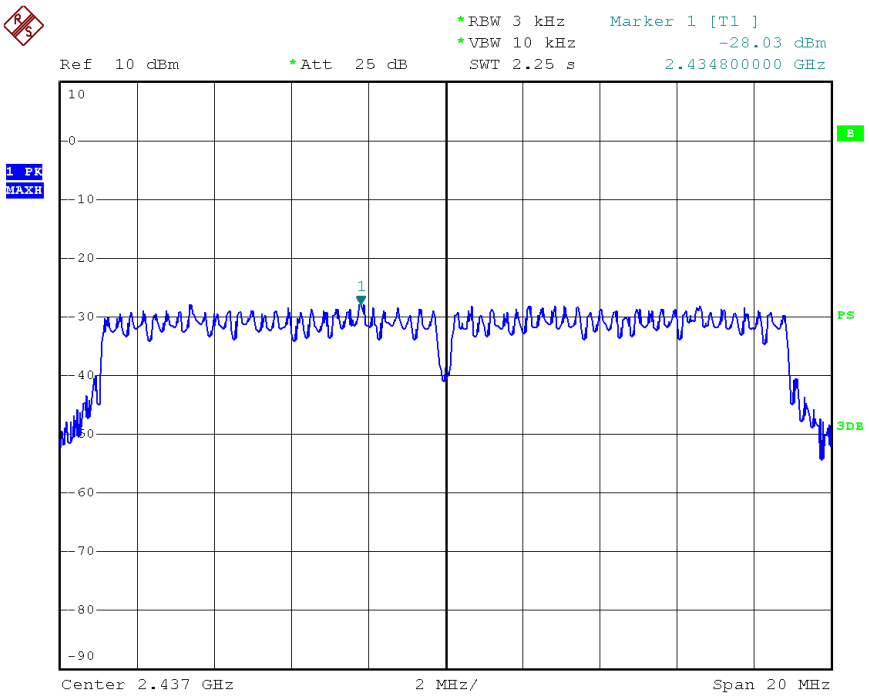
801.11n Mode (6.5 Mbps)		
Frequency (MHz)	**Power Density (dBm/ 3kHz)**	**Limit (dBm)**
2412	-27.20	<8
2437	-28.03	
2462	-27.02	

N Mode 2412 MHz



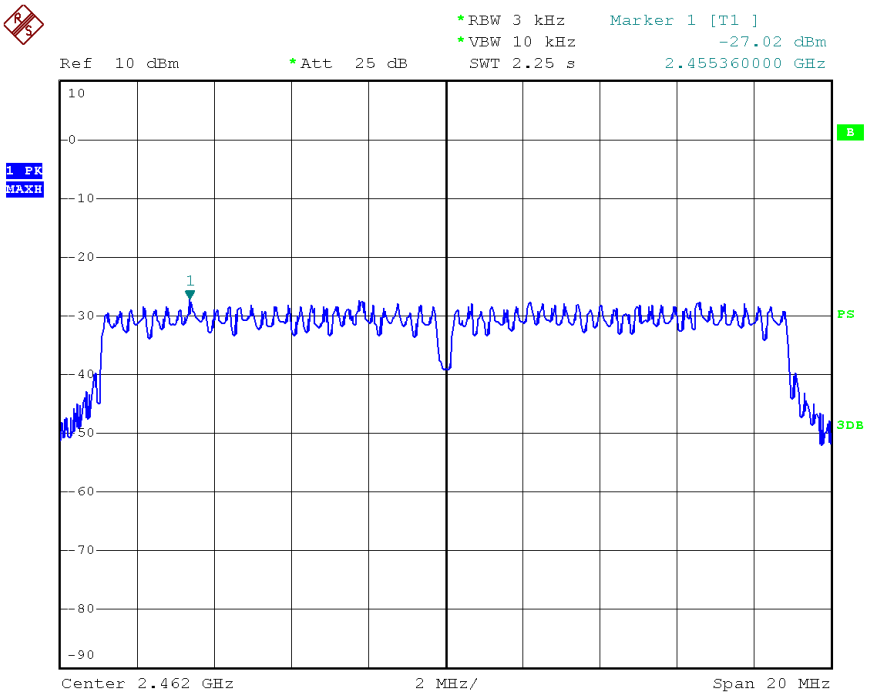
Date: 17.APR.2014 07:30:27

N Mode 2437 MHz



Date: 17.APR.2014 07:31:13

N Mode 2462 MHz



Date: 17.APR.2014 07:32:20

8. BAND EDGES MEASUREMENT

8.1 LIMITS

Band Edges Requirement	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

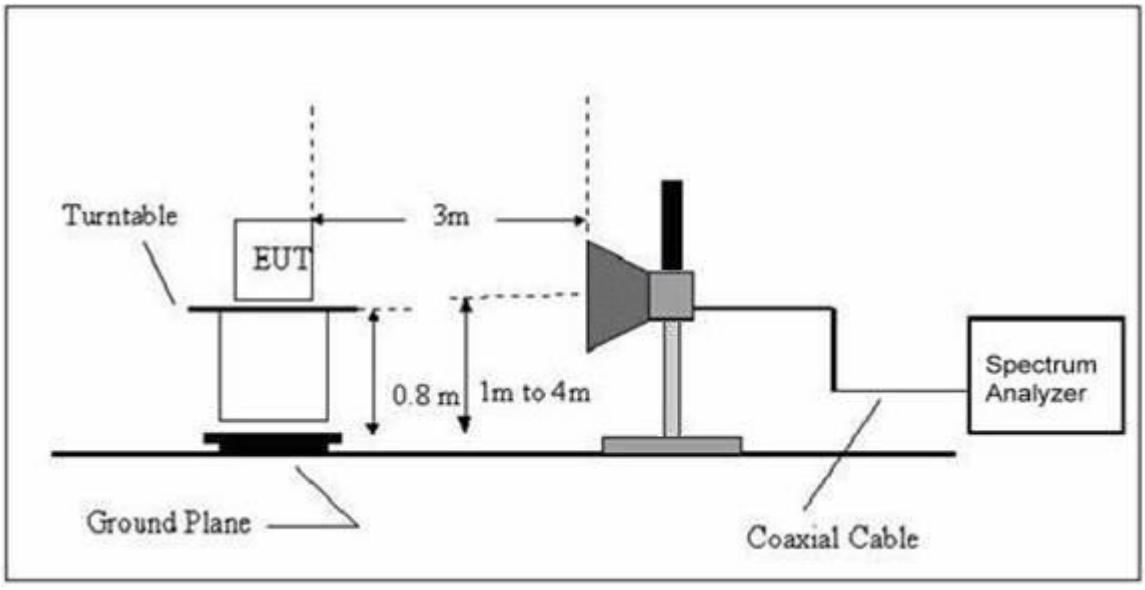
8.2 TEST PROCEDURE

The EUT was directly connected to the power meter and antenna output port as show in the block diagram as bellow.

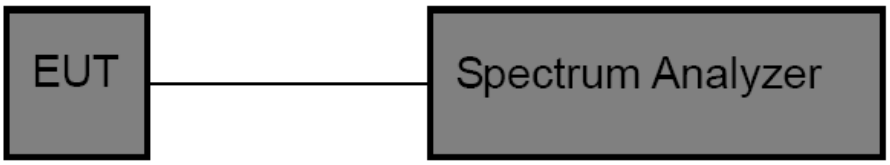
a. Set frequency range to capture low band-edge from 2310 MHz up to 2390 MHz, and for up band-edge from 2483.5 MHz up to 2500 MHz
b. For low band-edge set the equipment transmit at the lowest channel, and for up band-edge set the equipment transmit at the highest channel
c. Set the VBW≥3 RBW (100kHz/ 300kHz) for conducted measurement
d. For radiated measurements the RBW set to 1 MHz, and the VBW set to 1 MHz for peak measurements and 10 Hz for average measurement

8.3 TEST SETUP

(A) Radiated Emission Test Set-Up



(B) Conducted Emission Test Setup



8.4 TEST INSTRUMENTS

Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Spectrum Analyzer	R&S	FSP40	100154	Jul. 06, 2012	Jul. 05. 2014	1 year

8.5 EUT OPERATING CONDITIONS

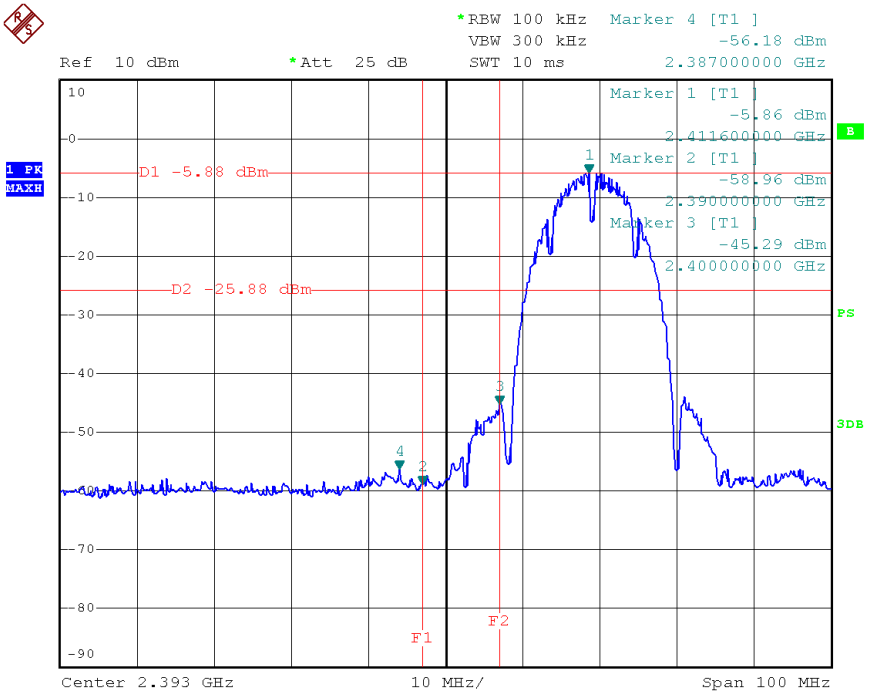
The EUT was set to continuously transmitting in the maximum power during the test.

8.6 TEST RESULTS

B Mode (1Mbps)				
Conducted Emission				
Frequency (MHz)	**Peak Power (dBm)**	**Emission Level (dBm)**	**Ratio (dBC)**	**Limit (dBc)**
Bellow 2400	**-5.88**	**-56.18**	**50.30**	20
Up 2483.5	**-4.53**	**-56.18**	**51.65**	

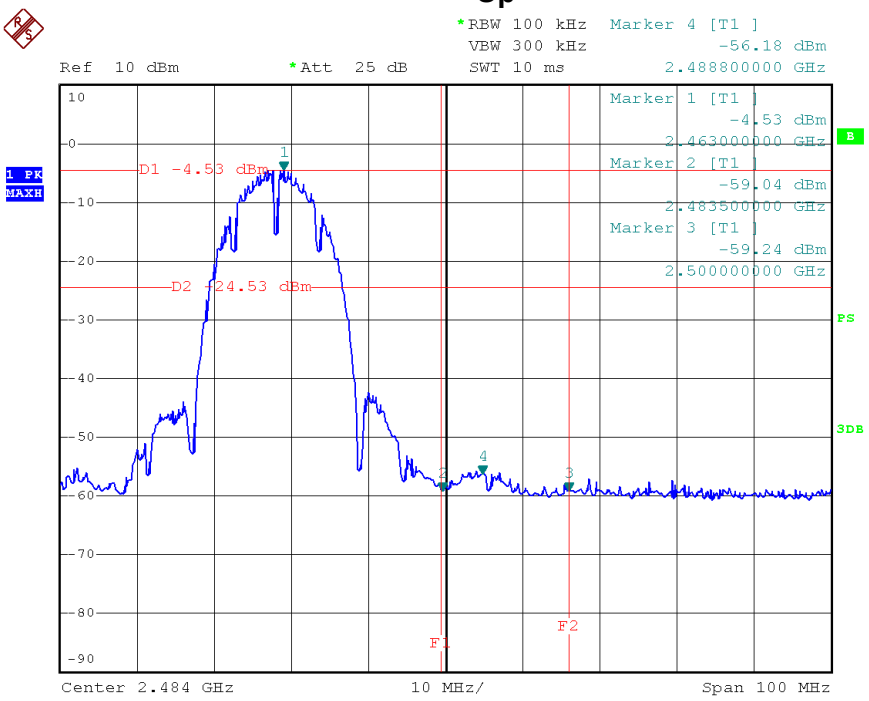
Radiated Emission					
Frequency (MHz)	**Polarization (H/V)**	**Emission (dBuV/m)**		**Limit (dBuV/m)**	
		PEAK	**AVERAGE**	**PEAK**	**AVERAGE**
2390	**H**	**55.07**	**46.67**	**74**	**54**
	V	**54.89**	**45.79**		
2483.5	**H**	**54.72**	**45.41**		
	V	**54.08**	**44.86**		

Low



Date: 17.APR.2014 07:08:15

Up

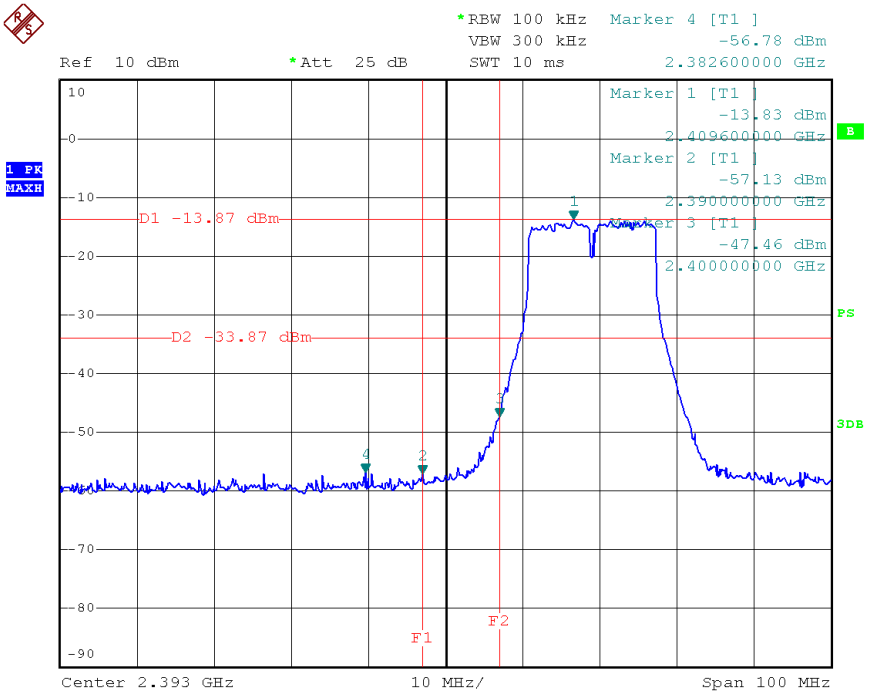


Date: 17.APR.2014 07:07:15

G Mode (6 Mbps)				
Conducted Emission				
Frequency (MHz)	**Peak Power (dBm)**	**Emission Level (dBm)**	**Ratio (dBC)**	**Limit (dBc)**
Bellow 2400	**-13.87**	**-56.78**	**42.91**	20
Up 2483.5	**-13.82**	**-57.50**	**43.68**	

Radiated Emission					
Frequency (MHz)	**Polarization (H/V)**	**Emission (dBuV/m)**		**Limit (dBuV/m)**	
		PEAK	**AVERAGE**	**PEAK**	**AVERAGE**
2390	**H**	**53.56**	**44.74**	**74**	**54**
	V	**53.07**	**44.11**		
2483.5	**H**	**53.08**	**44.20**		
	V	**52.88**	**43.43**		

Low



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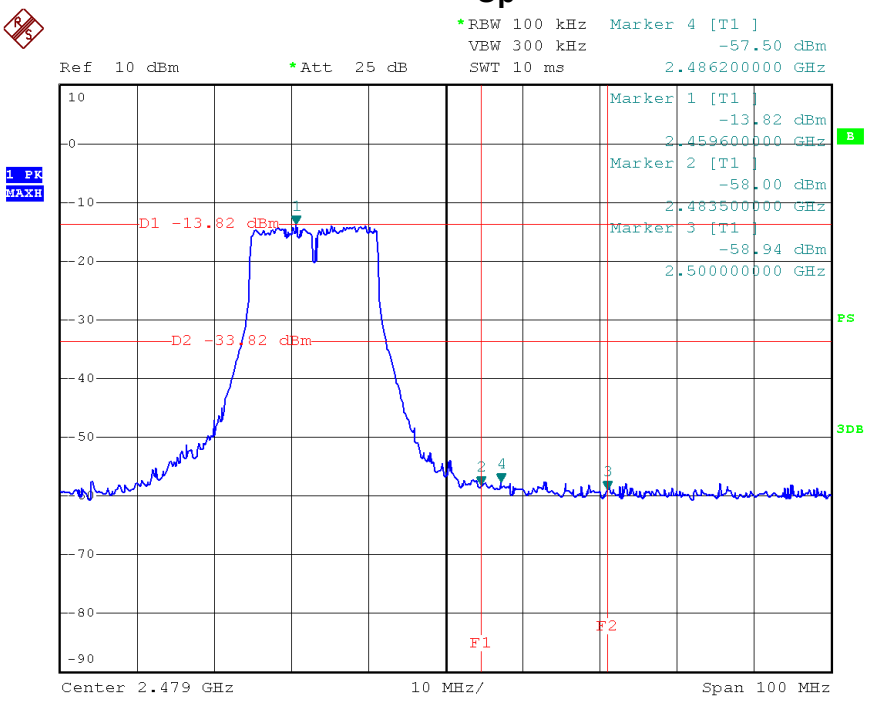
Up

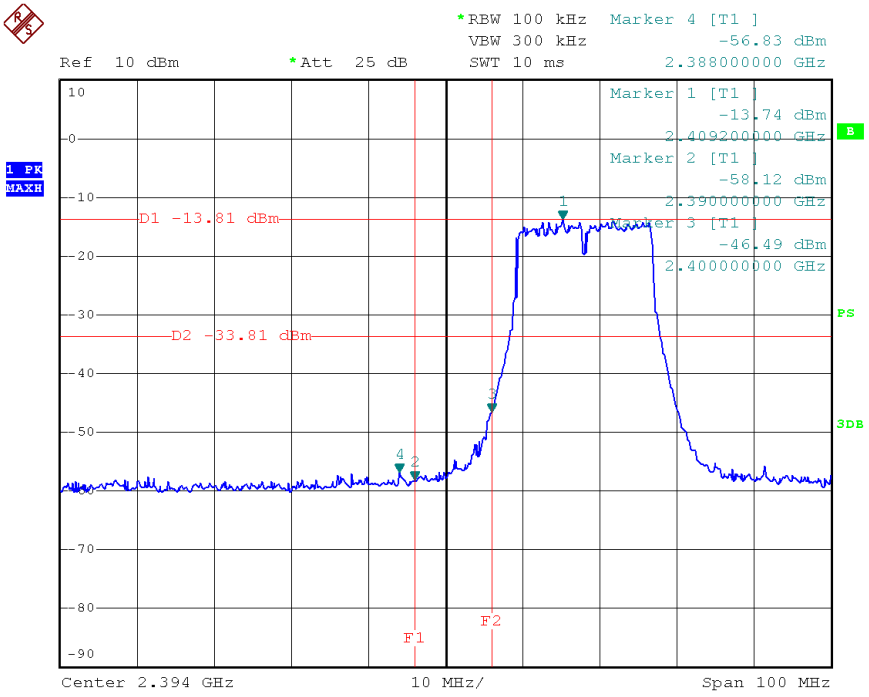


Date: 17.APR.2014 07:12:59

N Mode (6.5 Mbps)				
Conducted Emission				
Frequency (MHz)	**Peak Power (dBm)**	**Emission Level (dBm)**	**Ratio (dBC)**	**Limit (dBc)**
Bellow 2400	**-13.81**	**-56.83**	**43.02**	20
Up 2483.5	**-13.38**	**-56.77**	**43.39**	

Radiated Emission					
Frequency (MHz)	**Polarization (H/V)**	**Emission (dBuV/m)**		**Limit (dBuV/m)**	
		PEAK	**AVERAGE**	**PEAK**	**AVERAGE**
2390	**H**	**53.87**	**44.76**	**74**	**54**
	V	**53.05**	**43.97**		
2483.5	**H**	**52.98**	**43.85**		
	V	**51.76**	**42.76**		

Low



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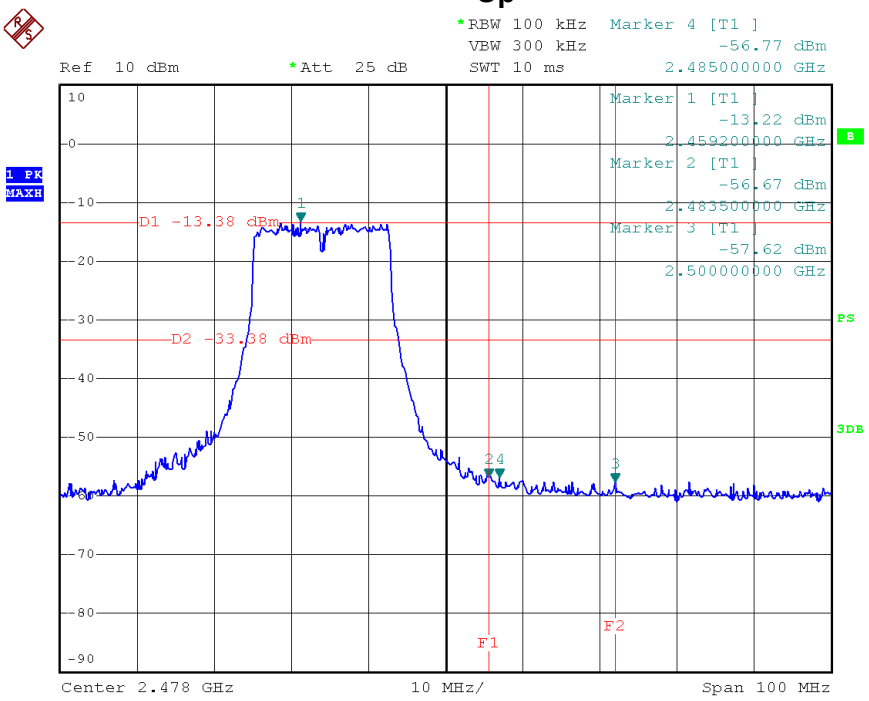
Up



Date: 17.APR.2014 07:25:01

9. OUT OF BAND CONDUCTED EMISSIONS MEASUREMENT

9.1 LIMITS

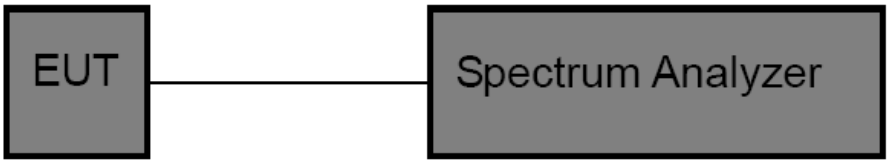
Requirement	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that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

9.2 TEST PROCEDURE

The EUT was directly connected to the power meter and antenna output port as show in the block diagram as bellow.

a. Set spectrum frequency range from 30 MHz~26.5 GHz.
b. Set spectrum RBW=100 kHz, RBW=300 kHz.
c. Detector= Peak.
d. Sweep time= auto couple
e. Trace mode= maxhold.
f. Allow trace to fully stabilize.
g. Use the peak marker function to determine the maximum amplitude level within the RBW.

9.3 TEST SETUP



9.4 TEST INSTRUMENTS

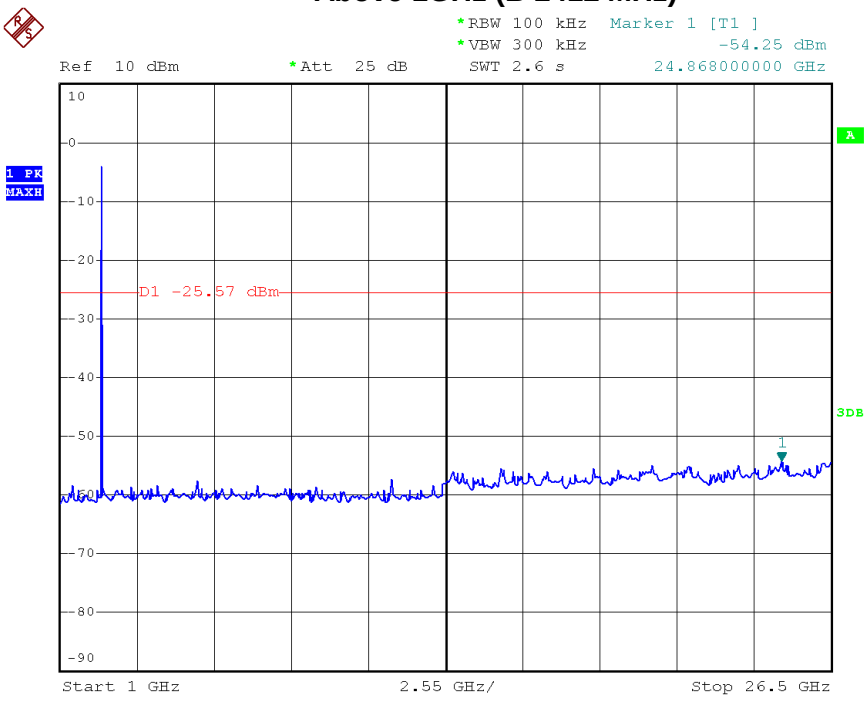
Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
Spectrum Analyzer	R&S	FSP40	100154	Jul. 06, 2012	Jul. 05. 2014	1 year

9.5 EUT OPERATING CONDITIONS

The EUT was set to continuously transmitting in the maximum power during the test.

9.6 TEST RESULTS

Above 1GHz (B 2412 MHz)



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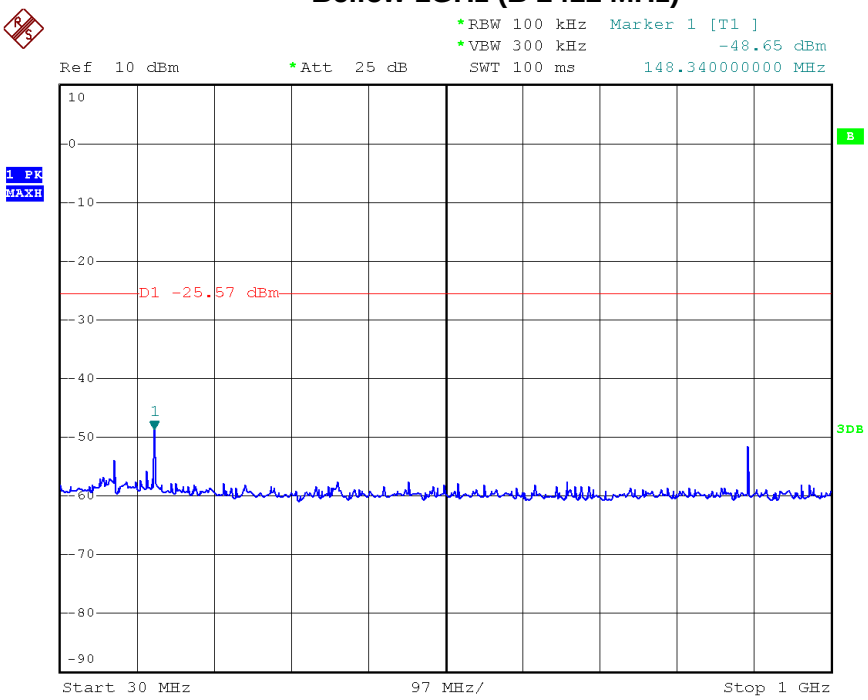
Bellow 1GHz (B 2412 MHz)



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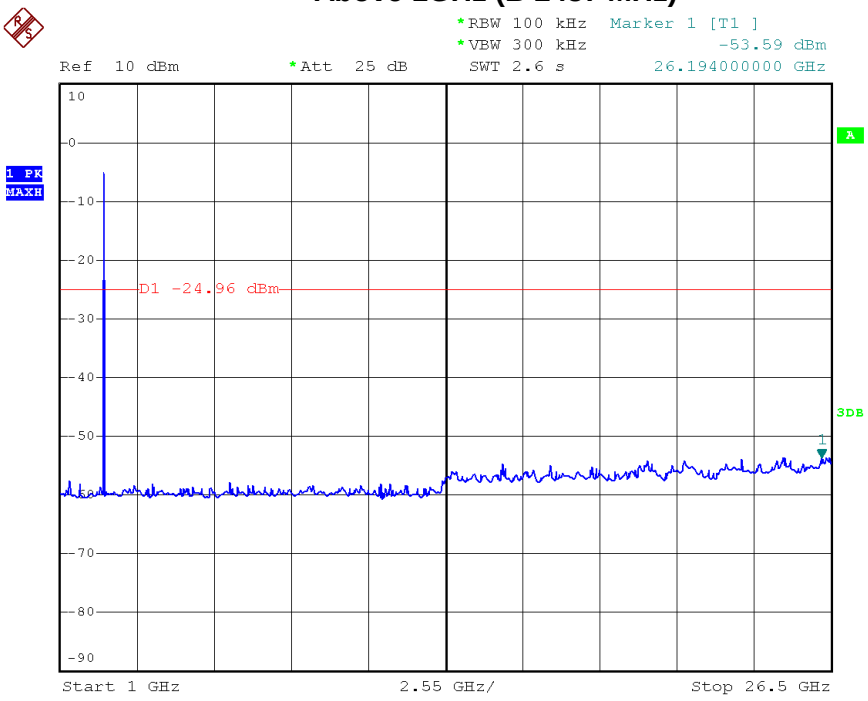
Above 1GHz (B 2437 MHz)



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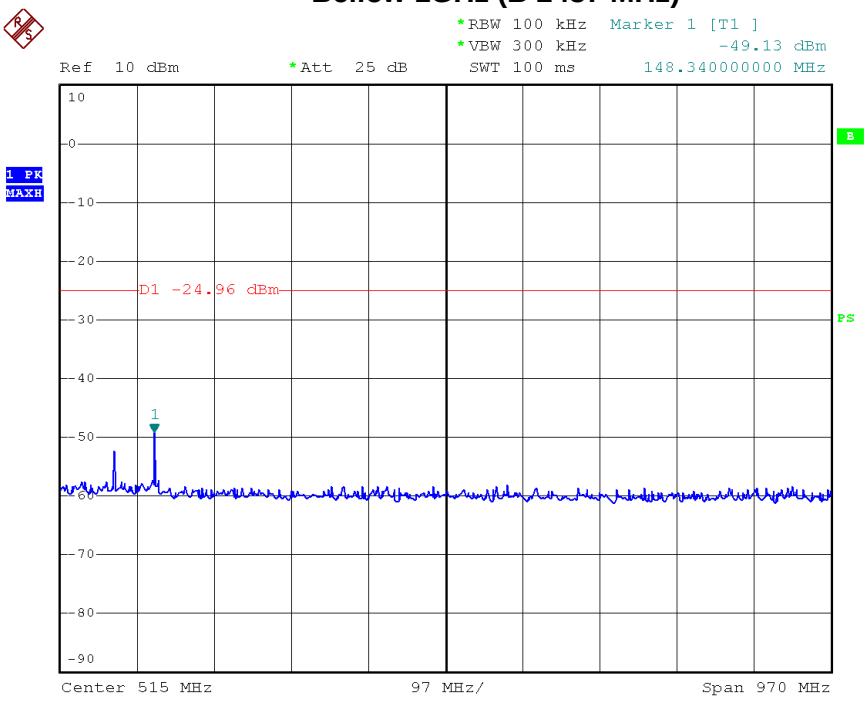
Bellow 1GHz (B 2437 MHz)



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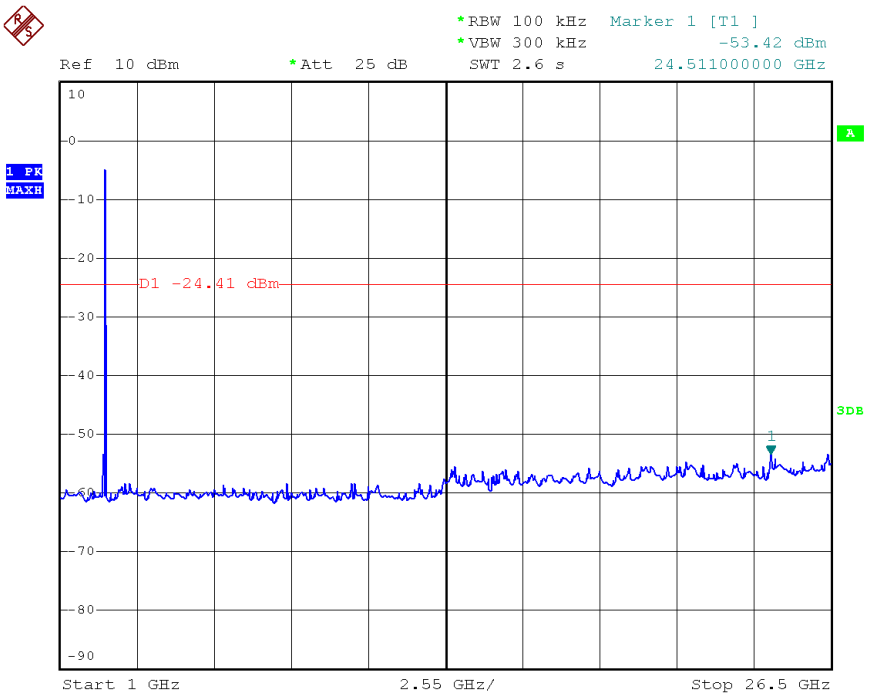
Above 1GHz (B 2462 MHz)



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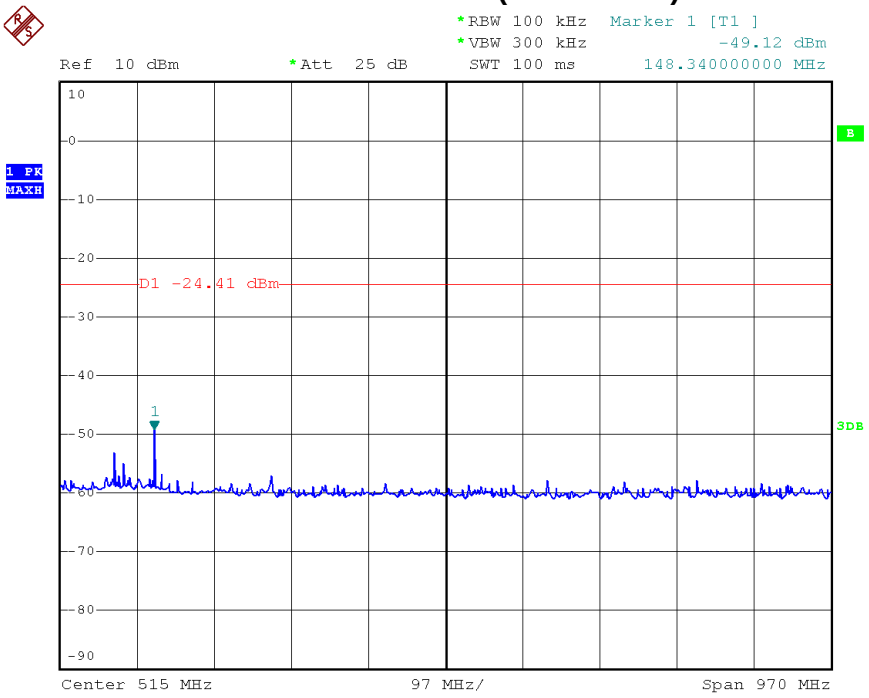
Bellow 1GHz (B 2462 MHz)



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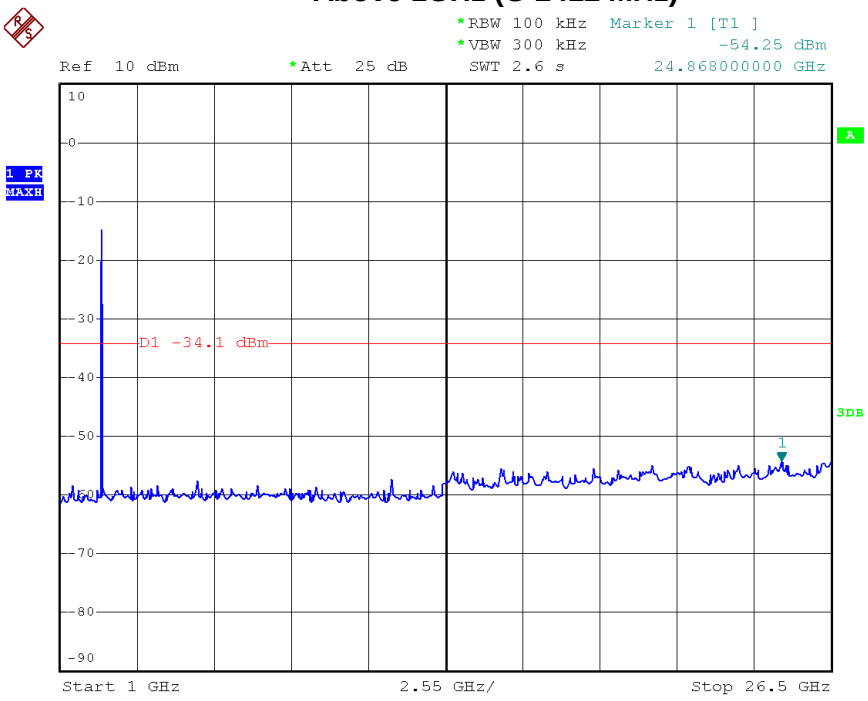
Above 1GHz (G 2412 MHz)



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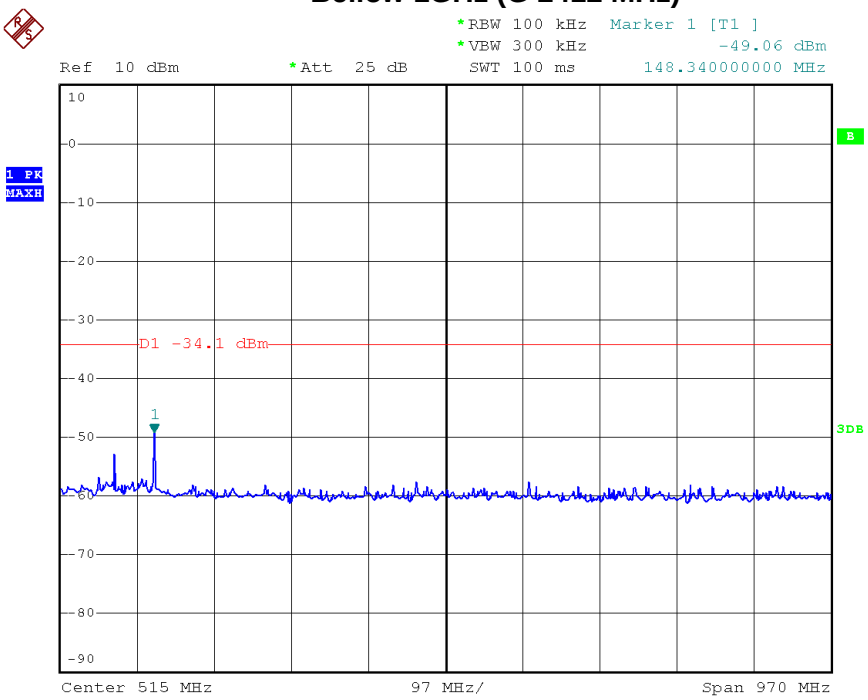
Bellow 1GHz (G 2412 MHz)



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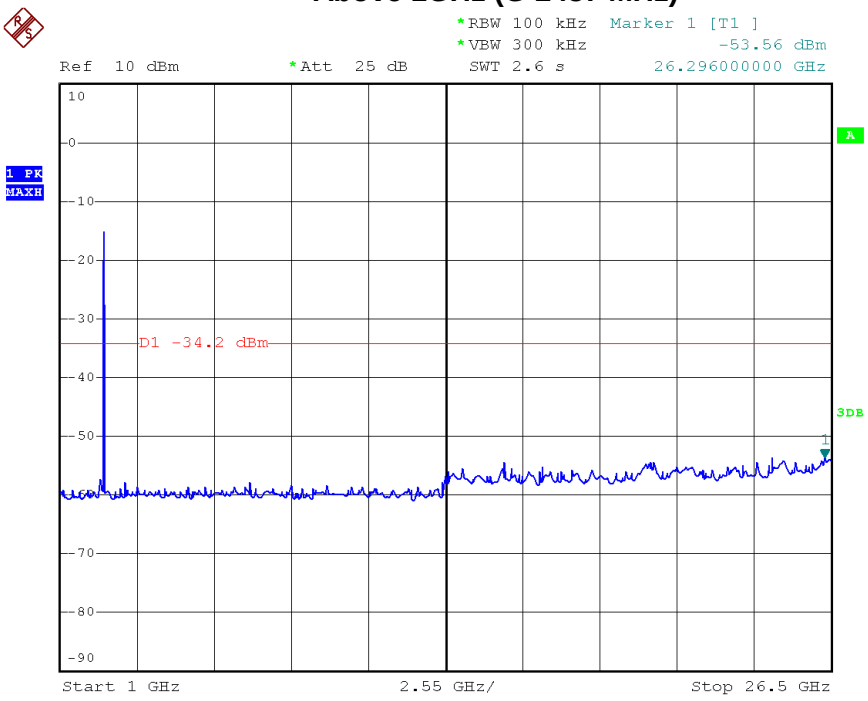
Above 1GHz (G 2437 MHz)



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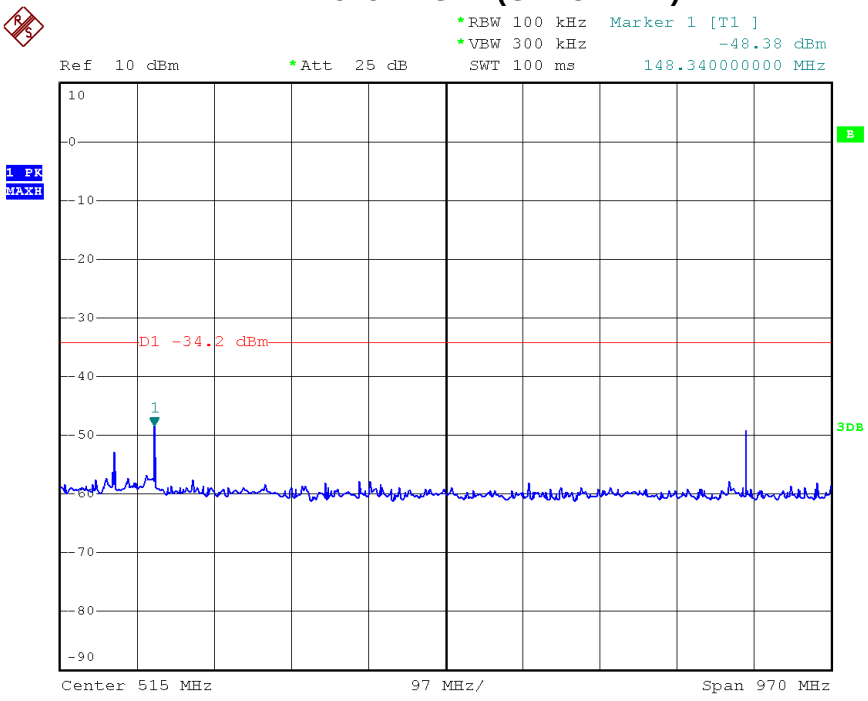
Bellow 1GHz (G 2437 MHz)



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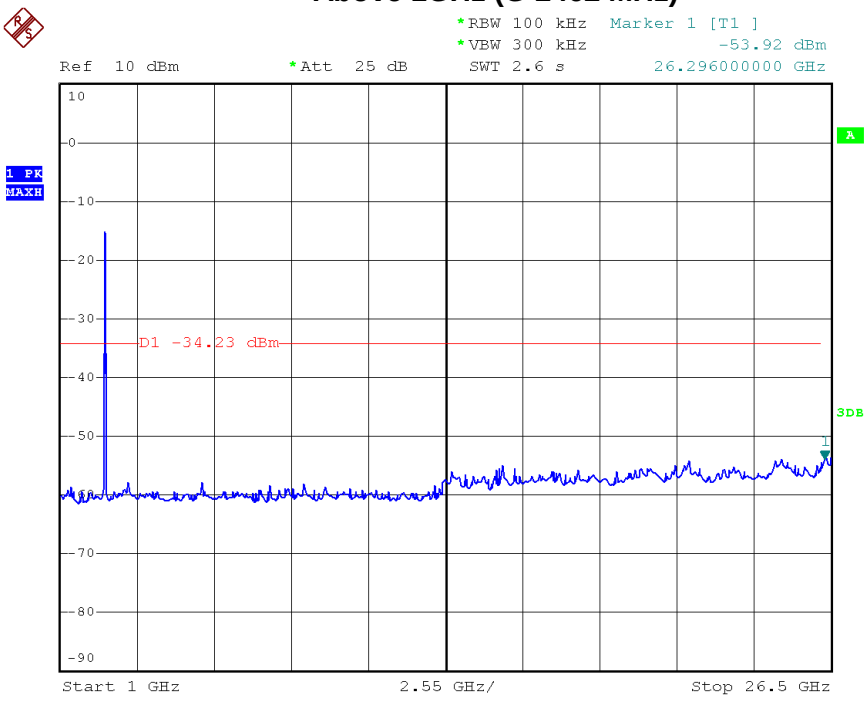
Above 1GHz (G 2462 MHz)



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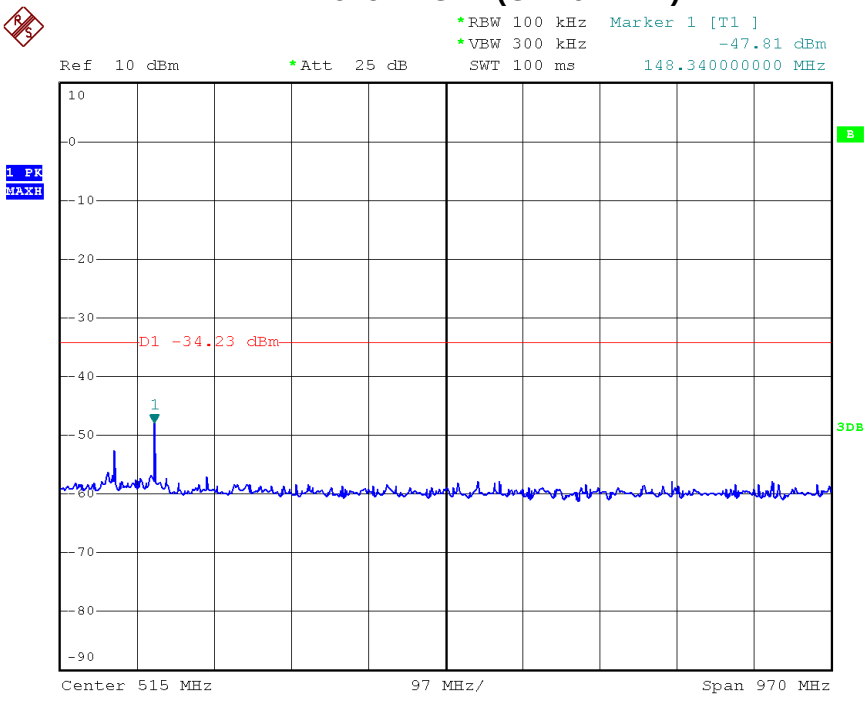
Bellow 1GHz (G 2462 MHz)



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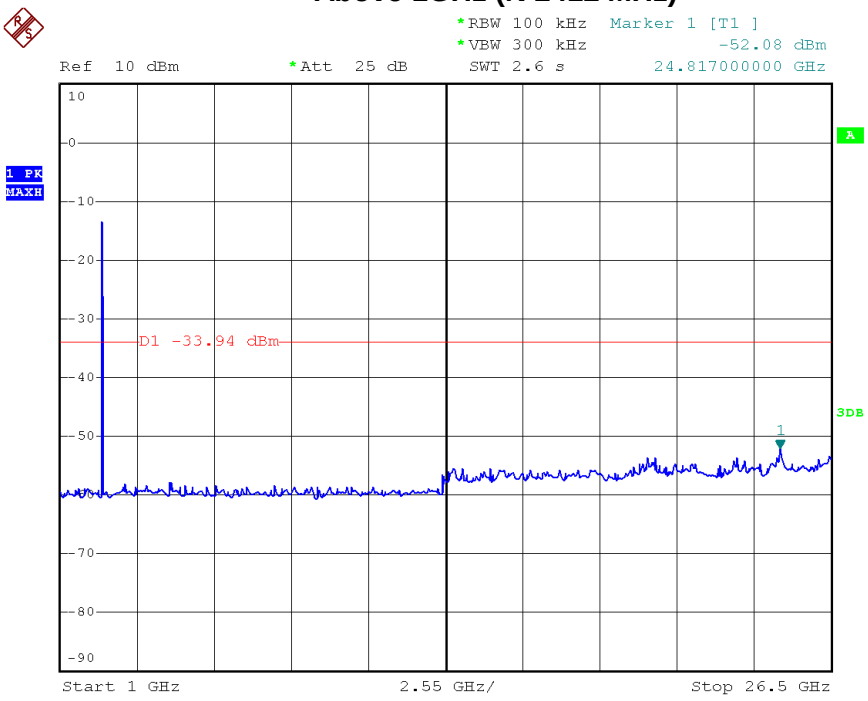
Above 1GHz (N 2412 MHz)



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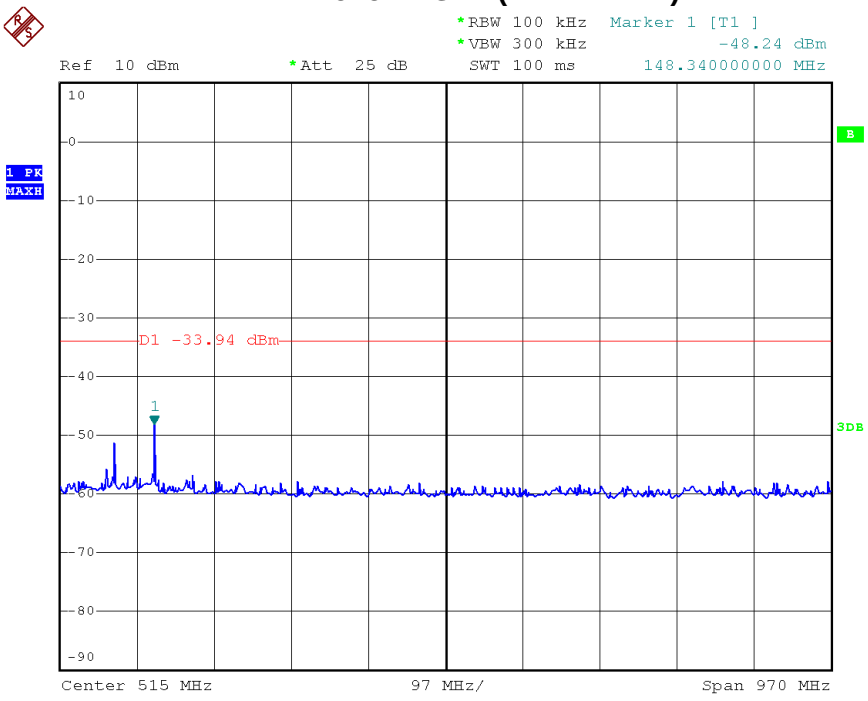
Bellow 1GHz (N 2412 MHz)



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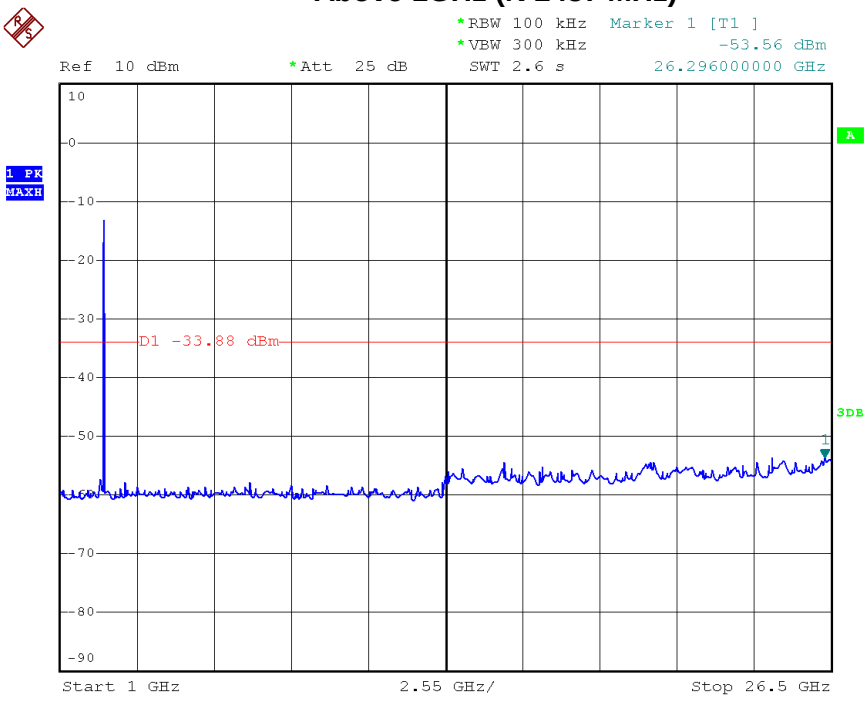
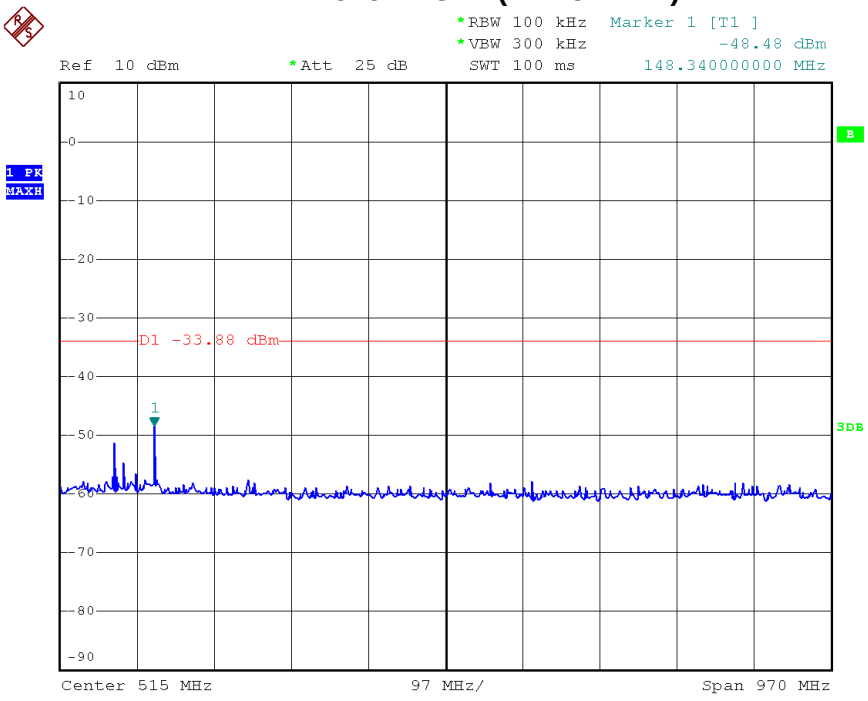
Above 1GHz (N 2437 MHz)



Date: 17.APR.2014 07:50:38

Bellow 1GHz (N 2437 MHz)



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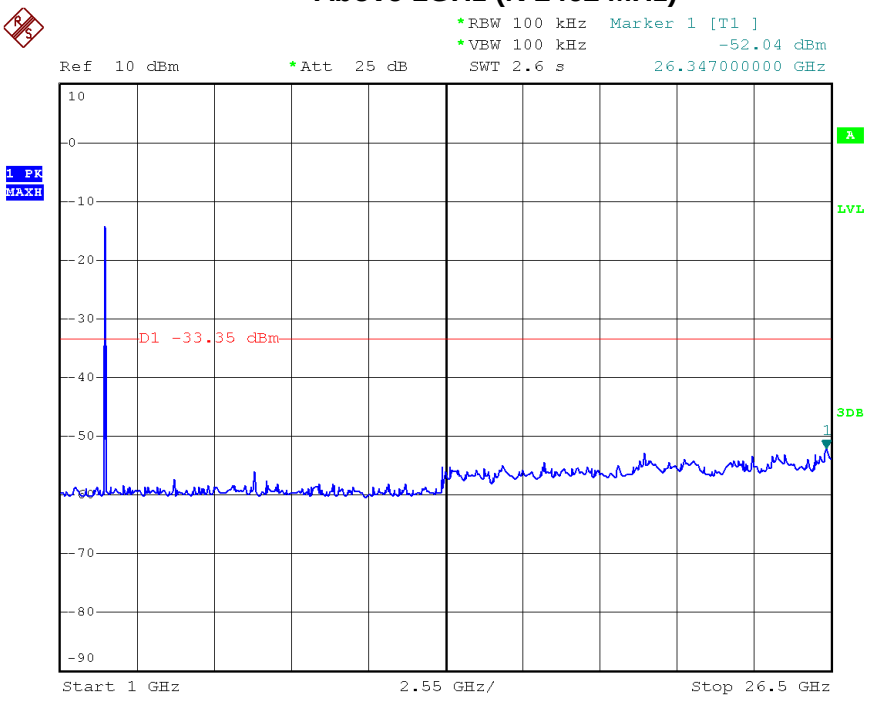
Above 1GHz (N 2462 MHz)



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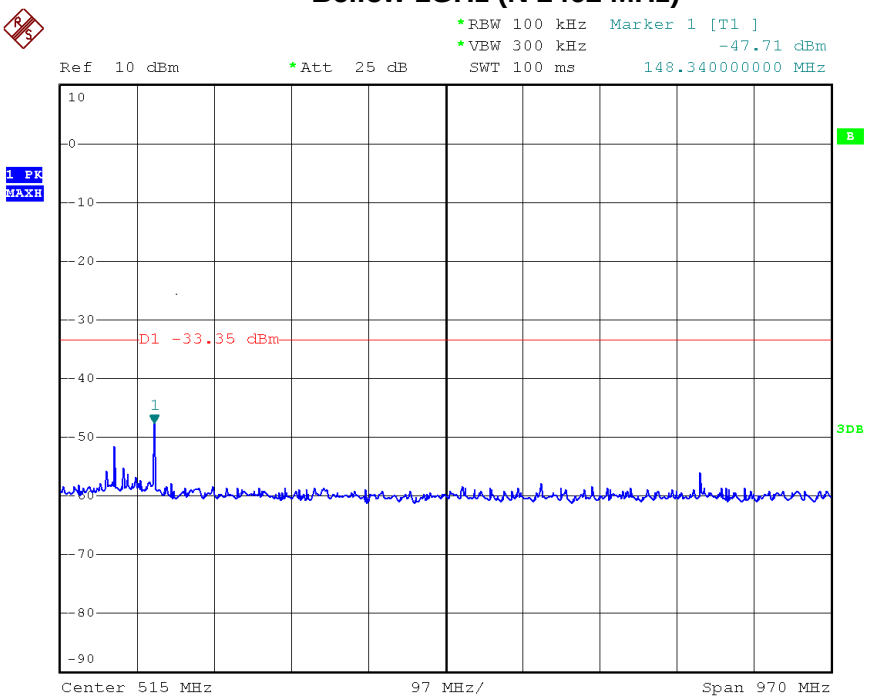
Bellow 1GHz (N 2462 MHz)



Date: 17.APR.2014 07:51:05

10. ANTENNA REQUIREMENT

10.1 REQUIREMENT

Antenna Requirement (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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
Antenna Requirement (15.247)	If transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

10.2 ANTENNA CONNECTOR CONSTRUCTION

The EUT antenna is a PIFA Antenna. And the maximum gain of this antenna is 0 dBi.
It complies with the standard requirement.