Report No.:SZ11090107W02





FCC Part 15C TEST REPORT

Issued to

3M Cogent, Inc

For

Mobile Ident IIIc

Model Name	:	Mi3c
Trade Name	:	3M
Brand Name	:	N/A
FCC ID	:	ZYFMI3C
Equipment Rule	:	47 CFR Part 15 Subpart C
Test date	:	2011-9-23 to 2011-11-29
Issue date	:	2011-12-2

Shenzhen MOR	LAB Communication	on Technology Co., Ltd.
Tested by Zhang Yan Zhang Yan Date 2011, 12, 2	Approved on ⁴⁴ Soltem X ³⁴¹ Wu Xue Date Voll. (2.02	0 11
CTIA Authorized Test Lab LAB CODE 20081222-00 IEEE 1725 OTA 電訊管	1100-million	Laterativery of Gridel Certification Forum BQTF FCC Reg. No. 741109

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DIRECTORY

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	Change History					
Issue	Date	Reason for change				
1.0	Dec 2, 2011	First edition				



1. General Information

1.1. EUT Description

EUT Type:	Mobile Ident IIIc
Serial No	(n.a, marked #1 by test site)
IMEI	(n.a)
Hardware Version:	V5.1
Software Version:	V2.1.6
Applicant	3M Cogent, Inc
	639N.Rosemead Blvd. Pasadena.CA 91170, USA
Manufacturer	3M Cogent, Inc
	Fiyta Hi-tech Building 1706, Gaoxinnanyi Avenue, Southern
	District of Hi-tech Park, Nanshan District, Shenzhen, China
Modulation Type:	DSSS, OFDM
Frequency:	802.11b/gMHz: 2.412GHz - 2.462GHz
Channel Number:	802.11b/gMHz: 11
Note 1: The EUT is a Mobile Id	lent IIIc. It supports 802.11b, 802.11g, and they are all tested in this

report.

- Note 2: The frequencies allocated is f (MHz) =2412+5*(n-1) (1<=n<=11). The lowest, middle, highest channel numbers of the EUT used and tested in this report are separately 1 (2412MHz), 6 (2437MHz) and 11 (2462MHz).
- Note 3: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



1.2. Test Standards and Results

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

No.	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices
	(10-1-09 Edition)	

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

No.	Section	Description	Result
1	15.247(a)	Number of Hopping Frequency	(n.a)
2	15.247(b)	Peak Output Power	PASS
3	15.247(a)	Bandwidth	PASS
4	15.247(a)	Carrier Frequency Separation	(n.a)
5	15.247(a)	Time of Occupancy (Dwell time)	(n.a)
6	15.247(c)	Conducted Spurious Emission	PASS
7	15.247(c)	Band Edge	PASS
8	15.207	Conducted Emission	PASS
9	15.209 15.247(c)	Radiated Emission	PASS
10	15.247(d)	Power spectral density (PSD)	PASS

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.4 2009.



1.3. Facilities and Accreditations

1.3.1. Facilities

Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L3572.

All measurement facilities used to collect the measurement data are located at 3/F, Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen, 518055 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22; the FCC registration number is 741109.

1.3.2. Test Environment Conditions

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

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



2. 47 CFR Part 15C Requirements

2.1. Peak Output Power

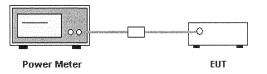
2.1.1. Requirement

According to FCC section 15.247(b)(3), for systems using digital modulation in the 902–928 MHz, 2400–2483.5MHz, and 5725–5850 MHz bands: 1 Watt.

2.1.2. Test Description

The measured output power was calculated by the reading of the Power Meter and calibration.

A. Test Setup:



The EUT which is coupled to the Power Meter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EPM Series Power	Agilent	E4418B	GB43318055	2011.05	1 year
Meter					



2.1.3. Test Result

The EUT operates at test mode. The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

2.1.3.1. 802.11b Test mode

Channel	Frequency	cy Measured Output Peak Power		Limit		Verdict
Channel	(MHz)	dBm	W	dBm	W	veruiet
1	2412	10.97	0.012503			PASS
6	2437	11.05	0.012735	30	1	PASS
11	2462	9.43	0.008770			PASS

2.1.3.2. 802.11g Test mode

Channel	Frequency	Measured Output Peak Power Limit		it	Vardiat	
Channel	(MHz)	dBm	W	dBm	W	Verdict
1	2412	8.07	0.006412			PASS
6	2437	7.86	0.006109	30	1	PASS
11	2462	8.57	0.007194			PASS



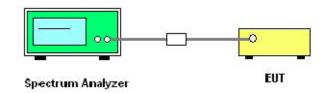
Bandwidth

2.1.4. Definition

According to FCC section 15.247(a) (2), Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

2.1.5. Test Description

A. Test Set:



The EUT which is powered by the AC adapter, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Receiver	Agilent	E7405A	US44210471	2011.05	1 year

2.1.6. Test Result

The lowest, middle and highest channels are selected to perform testing to record the 6 dB bandwidth of the Module.

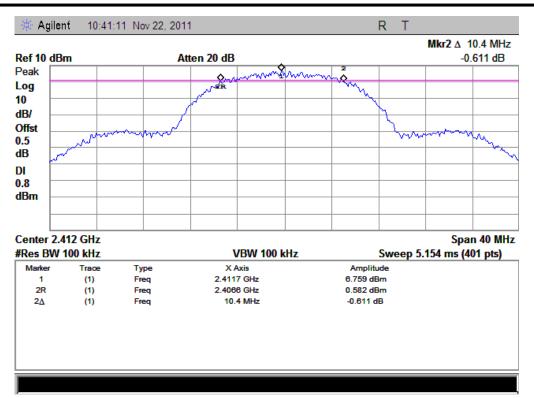
2.1.6.1. 802.11b Test mode

A. Test Verdict:

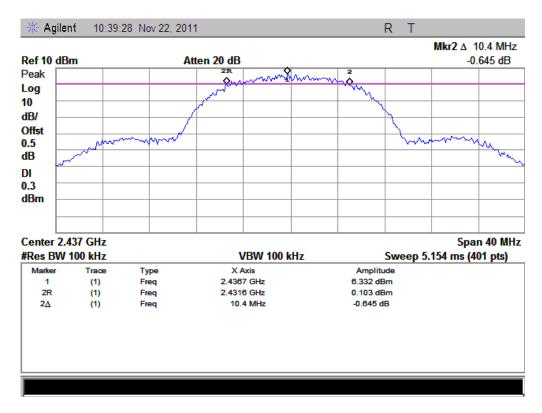
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Refer to Plot	Limits(kHz)	Result
1	2412	10.4	Plot A	≥500	PASS
6	2437	10.4	Plot B	≥500	PASS
11	2462	10.5	Plot C	≥500	PASS

B. Test Plots:



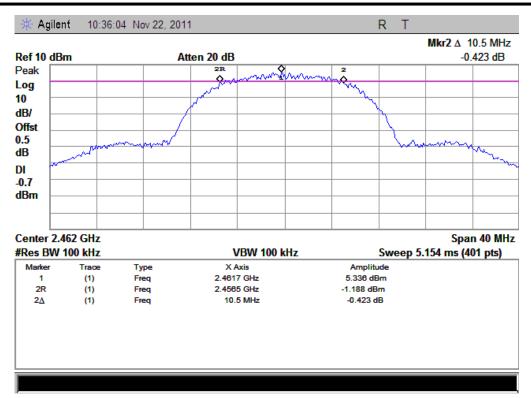


(Plot A: Channel 1 2412MHz)



(Plot B: Channel 6: 2437 MHz)





(Plot C: Channel 11: 2462MHz)

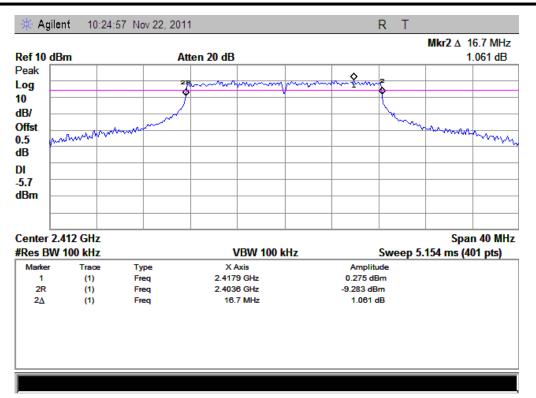
2.1.6.2. 802.11g Test mode

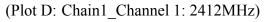
A. Test Verdict:

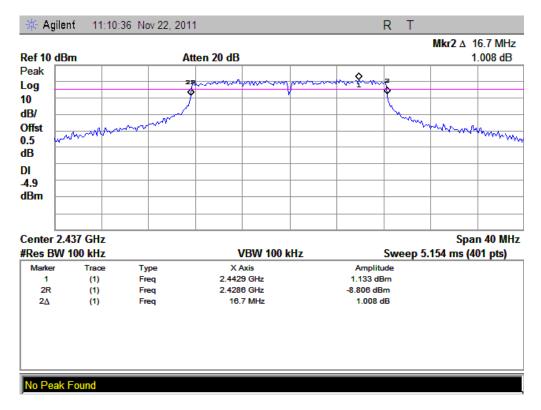
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Refer to Plot	Limits(kHz)	Result
1	2412	16.7	Plot D	≥500	PASS
6	2437	16.7	Plot E	≥500	PASS
11	2462	16.7	Plot F	≥500	PASS

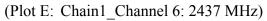
B. Test Plots:



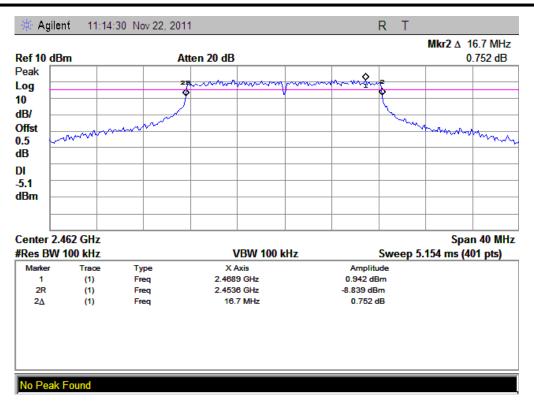


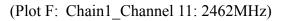














2.2. Conducted Spurious Emissions

2.2.1. Requirement

According to FCC section 15.247(c), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

2.2.2. Test Description

See section 2.2.2 of this report.

2.2.3. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.

2.2.3.1. 802.11b Test mode

A. Test Verdict:

Chain1:

	Eraguanau	Measured Max.		Limit (dBm)		
Channel	Frequency	Out of Band	Refer to Plot	Carrier	Calculated	Verdict
	(MHz)	Emission (dBm)		Level	-20dBc Limit	
1	2412	-43.3	Plot A.1/A.2	6.568	-13.5	PASS
6	2437	-46.09	Plot B.1/B.2	6.209	-14.1	PASS
11	2462	-46.30	Plot C.1/C.2	4.907	-15.1	PASS



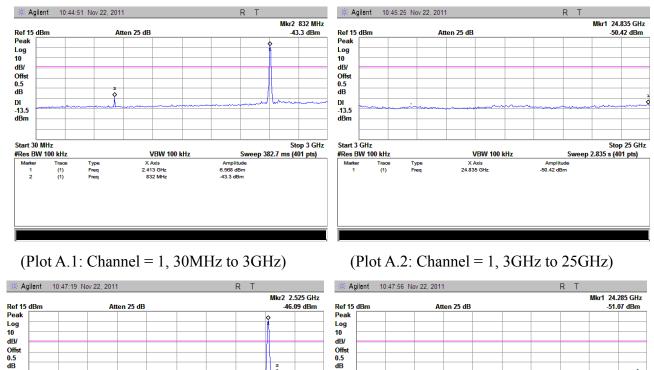
\$

Stop 25 GHz Sweep 2.835 s (401 pts)

Amplitude -51.07 dBm

B. Test Plots:

Note: the power of the Module transmitting frequency should be ignored.



DI -14.1 dBm

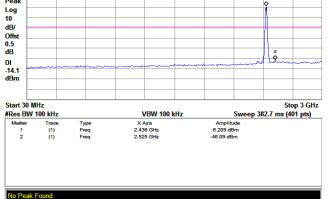
Start 3 GHz #Res BW 100 kHz

1

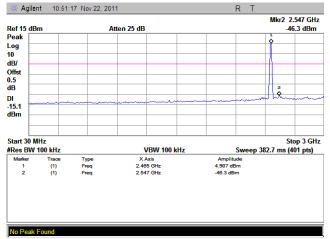
No Peak Found

(1)

Type Freq



(Plot B.1: Channel = 6, 30MHz to 3GHz)

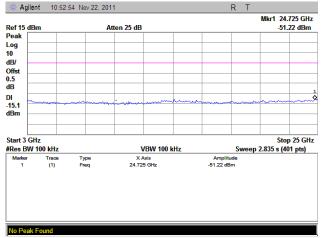


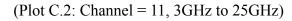
(Plot C.1: Channel = 11, 30MHz to 3GHz)

(Plot B.2: Channel = 6, 3GHz to 25GHz)

VBW 100 kHz

X Axis 24.285 GHz







2.2.3.2. 802.11g Test mode

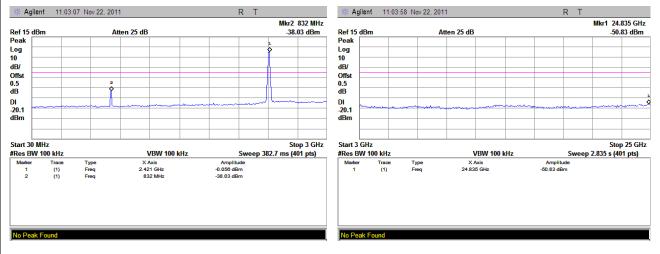
A. Test Verdict:

	Eraguanau	Measured Max.		Limit (dBm)		
Channel	Frequency	Out of Band	Refer to Plot	Carrier	Calculated	Verdict
	(MHz)	Emission (dBm)		Level	-20dBc Limit	
1	2412	-38.03	Plot A.1/A.2	-0.056	-20.1	PASS
6	2437	-47.24	Plot B.1/B.2	0.893	-19.1	PASS
11	2462	-47.57	Plot C.1/C.2	1.123	-18.9	PASS

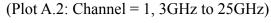
B. Test Plots:

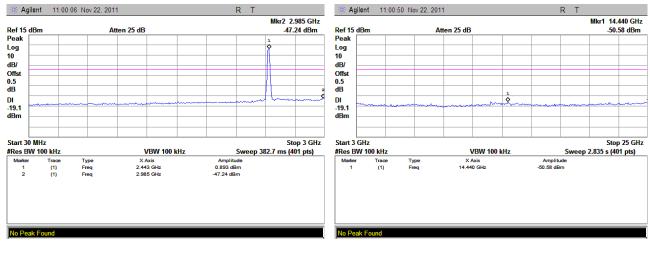
Note: the power of the Module transmitting frequency should be ignored.

Chain1:



(Plot A.1: Channel = 1, 30MHz to 3GHz)



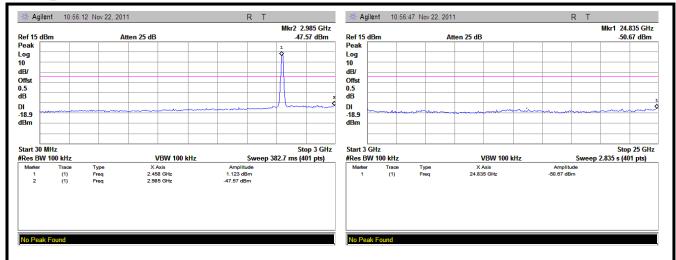


(Plot B.1: Channel = 6, 30MHz to 3GHz)

(Plot B.2: Channel = 6, 3GHz to 25GHz)



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(Plot C.1: Channel = 11, 30MHz to 3GHz)

(Plot C.2: Channel = 11, 3GHz to 25GHz)



2.3. Power spectral density (PSD)

2.3.1. Requirement

According to FCC section 15.247(d), the same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used.

2.3.2. Test Description

See section 2.2.2 of this report.

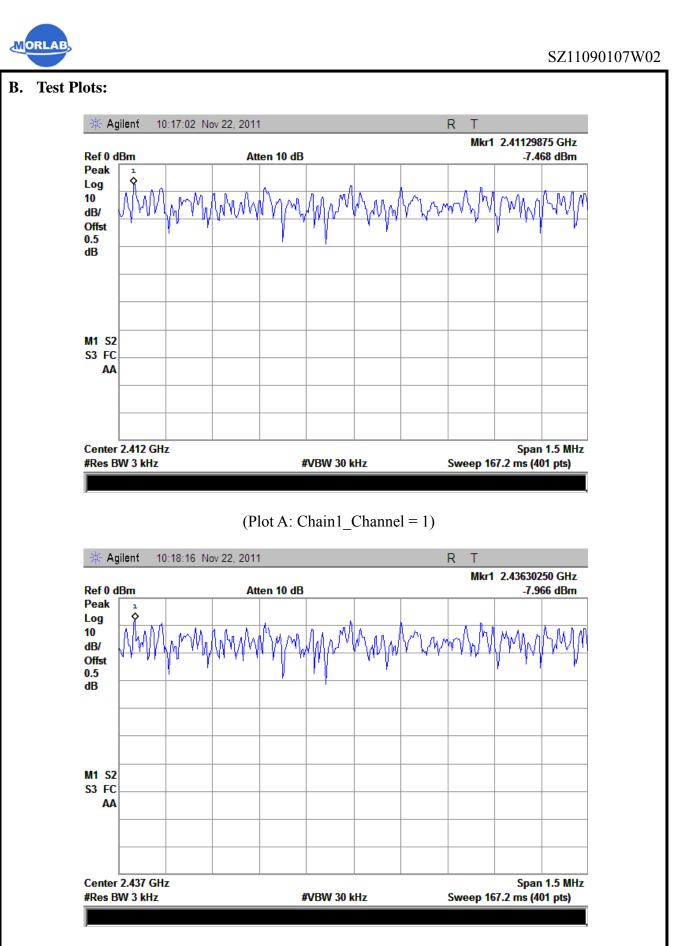
2.3.3. Test Result

The lowest, middle and highest channels are tested to verify the band edge emissions.

2.3.3.1. 802.11b Test mode

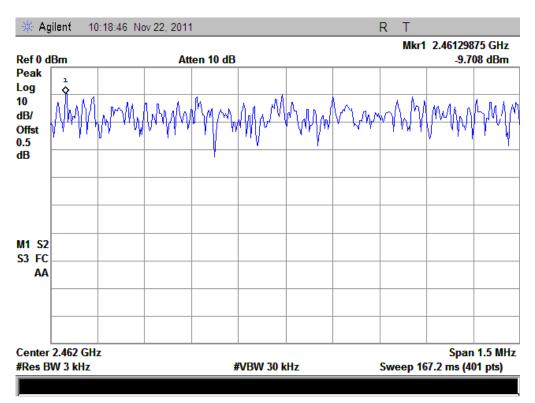
A. Test Verdict:

Spectral power density (dBm/MHz)							
Channel Frequency, 24	. –	Channe Frequency, 2		Channel: 11 Frequency, 2462MHz			
Test Result	Test plot	Test Result	Test plot	Test Result	Test plot		
-7.468	-7.468 Plot A -7.966 Plot B -9.708 Plot C						
	Measurement uncertainty: ±1.3dB						



(Plot B: Chain1_Channel = 6)





(Plot C: Chain1_Channel = 11)

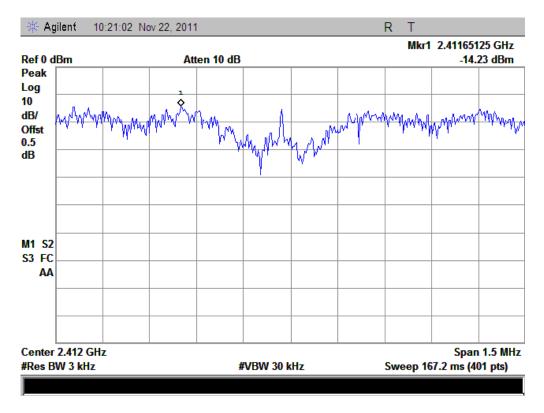


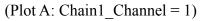
2.3.3.2. 802.11g Test mode

A. Test Verdict:

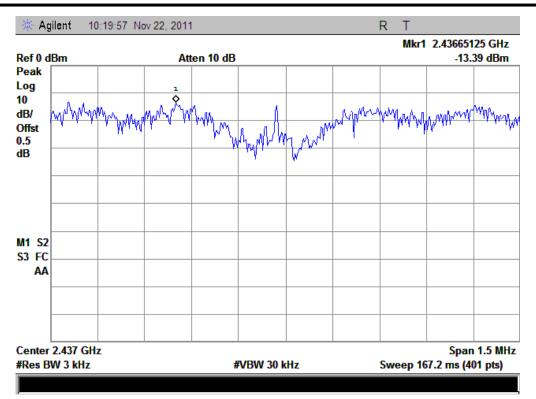
Spectral power density (dBm/MHz)						
Channel: 1Channel: 6Channel: 11Frequency, 2412MHzFrequency, 2437MHzFrequency, 2462M						
Test Result	Test plot	Test Result	Test plot	Test Result	Test plot	
-14.23 Plot A -13.39 Plot B -14.04 Plot C						
	Measurement uncertainty: ± 1.3 dB					

B. Test Plots:

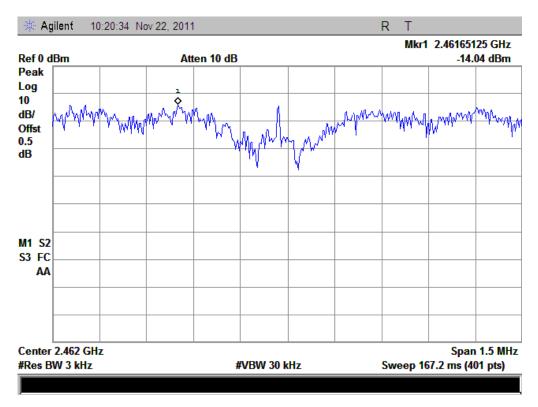


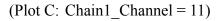














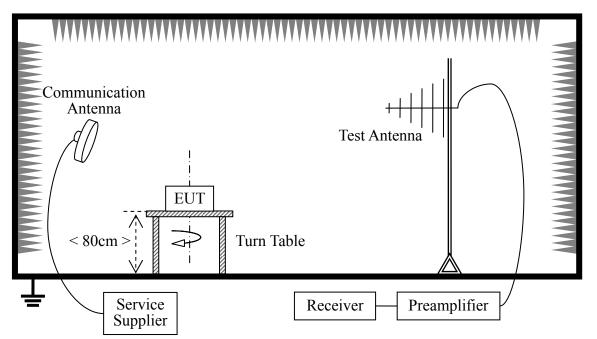
2.4. Band Edge

2.4.1. Requirement

According to FCC section 15.247(c), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

2.4.2. Test Description

A. Test Setup



The Module of the EUT is powered by the Battery charged with the AC Adapter. The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Receiver	Agilent	E7405A	US44210471	2011.5	2year
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2011.5	2year
Test Antenna	Schwarzbeck	BBHA 9120C	9120C-384	2011.5	2year



2.4.3. Test Result

The lowest and highest channels are tested to verify the band edge emissions.

The measurement results are obtained as below:

 $E [dB\mu V/m] = U_R + A_T + A_{Factor}; A_T = L_{Cable loss} [dB] - G_{preamp} [dB]$

A_T: Total correction Factor except Antenna

U_R: Receiver Reading

G_{preamp}: Preamplifier Gain

 $A_{\mbox{\scriptsize Factor}}$: Antenna Factor at 3m

During the test, the total correction Factor AT was built in receiver.

2.4.3.1. 802.11b Test mode

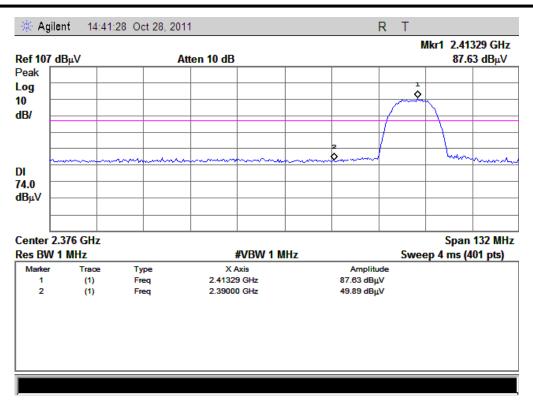
The lowest and highest channels are tested to verify the band edge emissions.

A. Test Verdict:

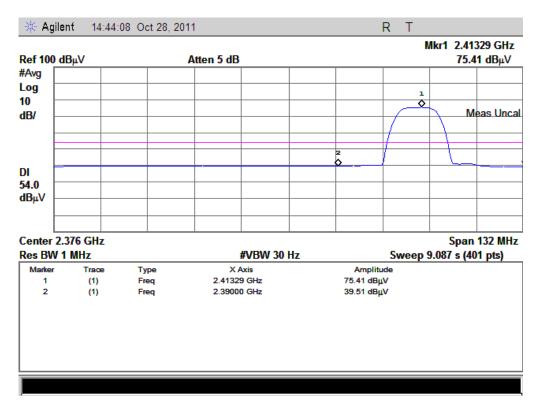
Channel	Frequency (MHz)	Rece Read U _R (d	ding	A _T (dB)	A _{Factor} (dB@3m)	Emi	ax. ssion μV/m)		nit µV/ 1)	Verdict
		PK	AV			PK	AV	PK	AV	
1	2412	49.89	39.51	-30.93	32.56	51.52	41.14	74	54	PASS
11	2462	51.22	39.25	-29.05	32.5	54.64	42.70	74	54	PASS

B. Test Plots:

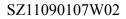


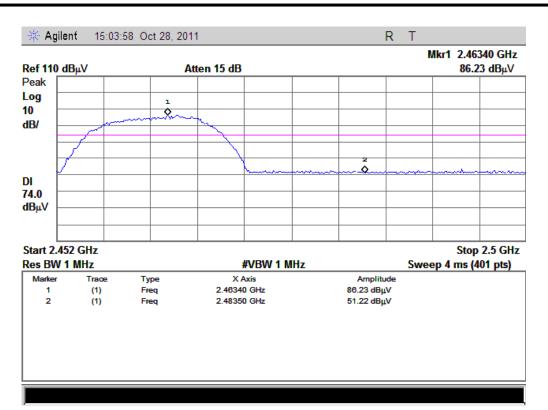


(Plot A1: Channel = 1 PEAK)



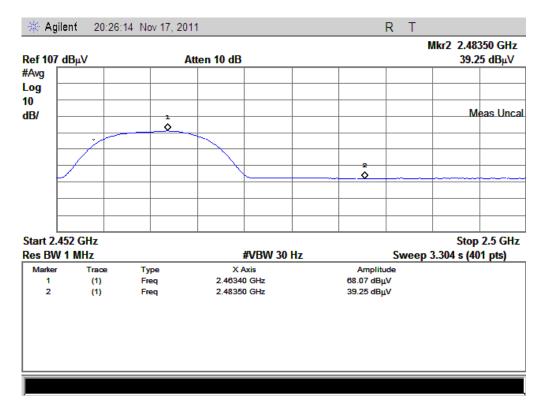
(Plot A2: Channel = 1 AVG)





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(Plot B1: Channel1 = 11 PEAK)



(Plot B2: Channel = 11 AVG)



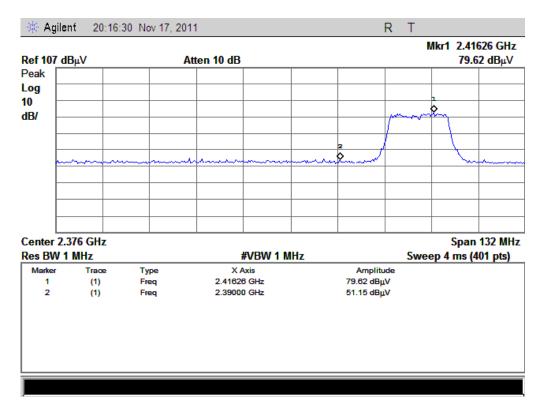
2.4.3.2. 802.11g Test mode

The lowest and highest channels are tested to verify the band edge emissions.

A. Test Verdict:

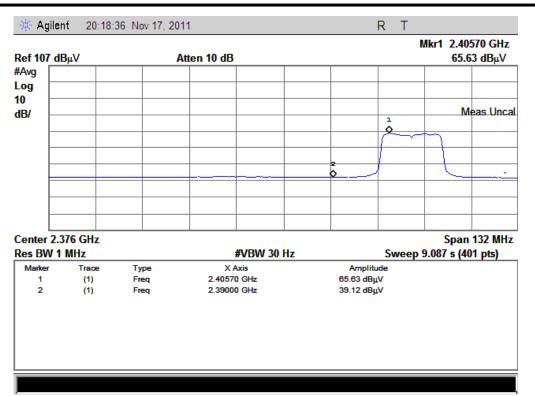
Channel	Frequency (MHz)	Rea	eiver ding BuV)	A _T (dB)	A _{Factor} (dB@3m)	Emi	ax. ssion μV/m)	Lin (dB m	μV/	Verdict
		РК	AV			PK	AV	PK	AV	
1	2412	51.15	39.12	-30.93	32.56	43.78	40.75	74	54	PASS
11	2462	51.39	37.16	-29.05	32.5	54.84	40.61	74	54	PASS

B. Test Plots:

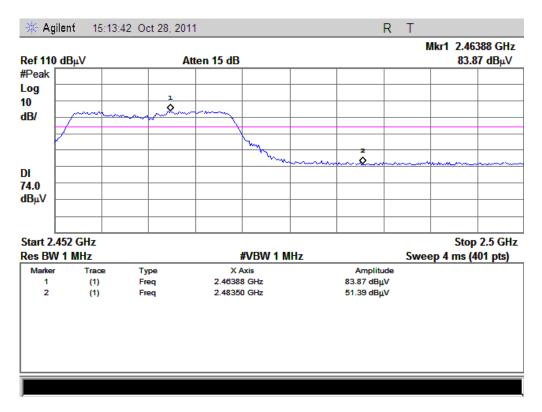


(Plot A1: Channel = 1 PEAK)



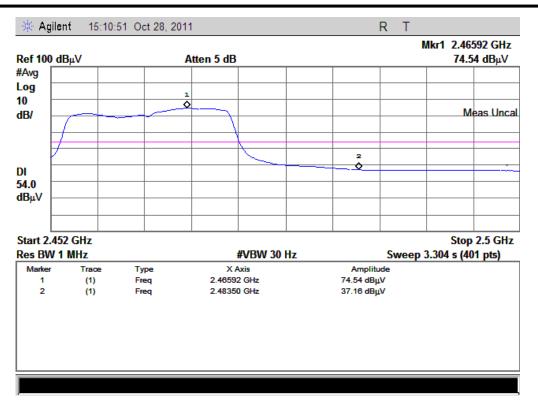


(Plot A2: Channel = 1 AVG)



(Plot B1: Channel = 11 PEAK)





(Plot B2: Channel = 11 AVG)



2.5. Conducted Emission

2.5.1. Requirement

According to FCC section 15.207, for an intentional radiator 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 within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μ H/50 Ω line impedance stabilization network (LISN).

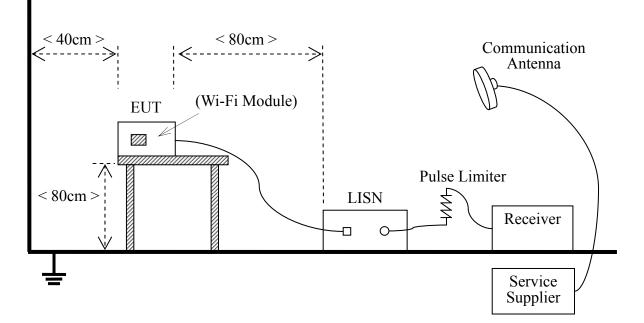
	Conducted Limit (dBµV)				
Frequency range (MHz)	Quai-peak	Average			
0.15 - 0.50	66 to 56	56 to 46			
0.50 - 5	56	46			
5 - 30	60	50			

NOTE:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 0.50MHz.

2.5.2. Test Description

A. Test Setup:



The EUT of the EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. The factors of the site are calibrated to correct the reading. During the measurement, the EUT is activated and controlled by the Wi-Fi Service Supplier (SS) via a Common Antenna, and is set to operate under hopping-on test mode transmitting 339 bytes DH5 packages at maximum power.

B. Equipments List:

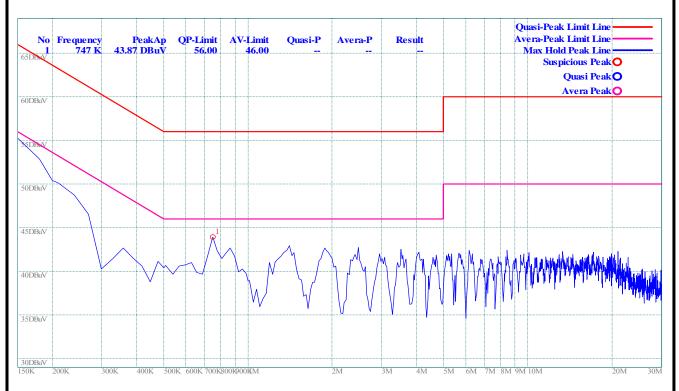


Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Receiver	Agilent	E7405A	US44210471	2011.05	1 year
LISN	Schwarzbeck	NSLK 8127	812744	2011.05	1 year
Service Supplier	R&S	CMU200	100448	2011.05	1 year
Pulse Limiter (20dB)	Schwarzbeck	VTSD 9561-D	9391	(n.a.)	(n.a.)

2.5.3. Test Result

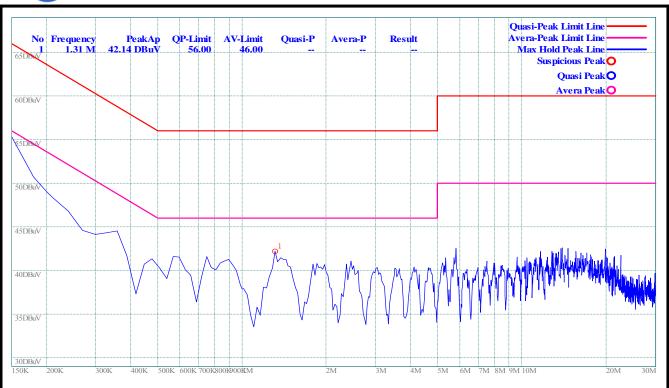
The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Test Plots under WI-FI Test mode:



(Plot A: L Phase)





(Plot B: N Phase)



2.6. Radiated Emission

2.6.1. Requirement

According to FCC section 15.247(c), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (µV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

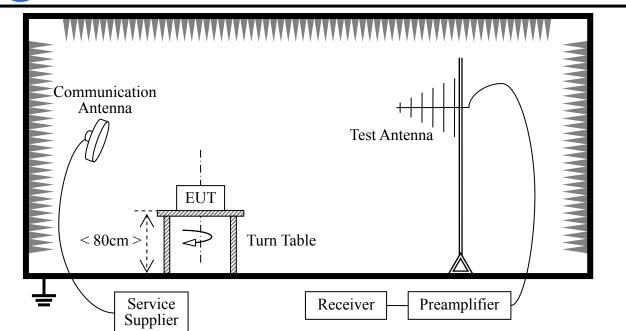
- 1. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
- 2. For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK)

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)

2.6.2. Test Description

A. Test Setup:





The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.4 (2009). The EUT was set-up on insulator 80cm above the Ground Plane. The set-up and test methods were according to ANSI C63.4.

The EUT of the EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading. During the measurement, the EUT is activated and controlled by the Wireless Router via a Common Antenna, and is set to operate under hopping-on test mode.

For the Test Antenna:

(a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.

(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	R&S	CMU200	100448	2011.05	1 year
Receiver	Agilent	E7405A	US44210471	2011.05	1 year
Semi-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2011.05	2year
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2011.05	1 year
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2011.05	1 year

B. Equipments List:



2.6.3. Test Result

According to ANSI C63.4 selection 4.2.2, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:

 $\begin{array}{l} E \left[dB\mu V/m \right] = U_R + A_T + A_{Factor} \left[dB \right]; \ A_T = L_{Cable \ loss} \left[dB \right] \text{-} G_{preamp} \left[dB \right] \\ A_T: \ Total \ correction \ Factor \ except \ Antenna \\ U_R: \ Receiver \ Reading \\ G_{preamp}: \ Preamplifier \ Gain \\ A_{Factor}: \ Antenna \ Factor \ at \ 3m \end{array}$

During the test, the total correction Factor AT and A_{Factor} were built in test software.

2.6.3.1. 802.11b Test mode

The maximum radiated emission is searched using PK, if the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV or QP detectors.

A. Test Verdict for Harmonics:

The Fundamental Emissions

The field strength of {Fundamental Emission} listed below is recorded, and used in the next table.

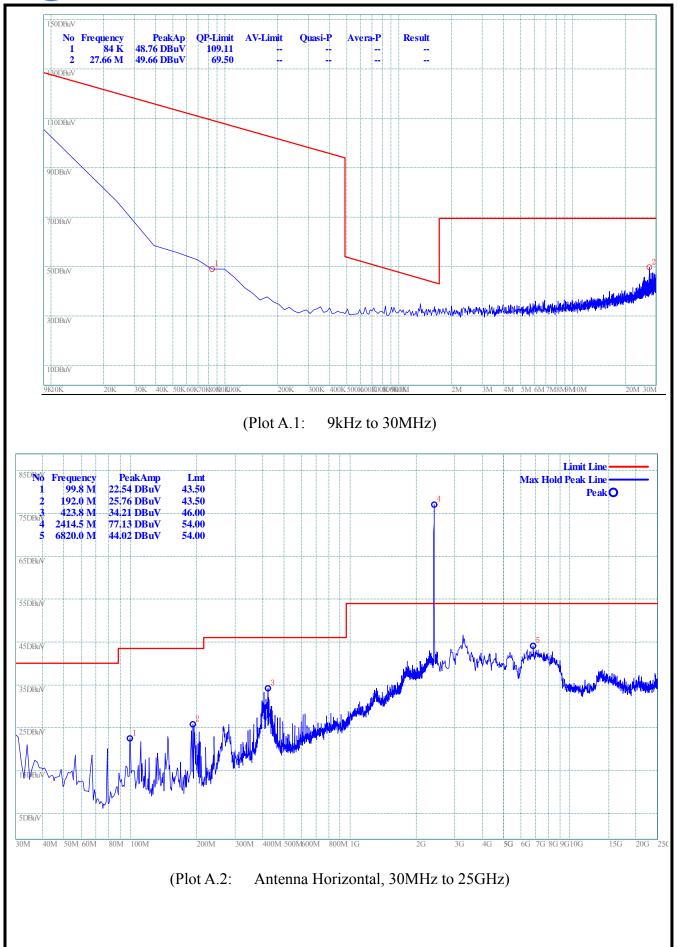
Channel Freque (MH	Frequency	Fundamental Emission (dBµV/m)		Antenna	Refer to Plot
	(MHZ)	Z) PK	AV	Polarization	
1 2412	77.13	76.22	Horizontal	Plot A.2	
	2412	78.64	76.33	Vertical	Plot A.3
6 2437	76.34	75.25	Horizontal	Plot B.2	
	2437	76.71	75.16	Vertical	Plot B.3
11	2462	76.21	75.25	Horizontal	Plot C.2
		77.19	76.22	Vertical	Plot C.3

Also refer to following plots for the emissions falling in the restricted bands.

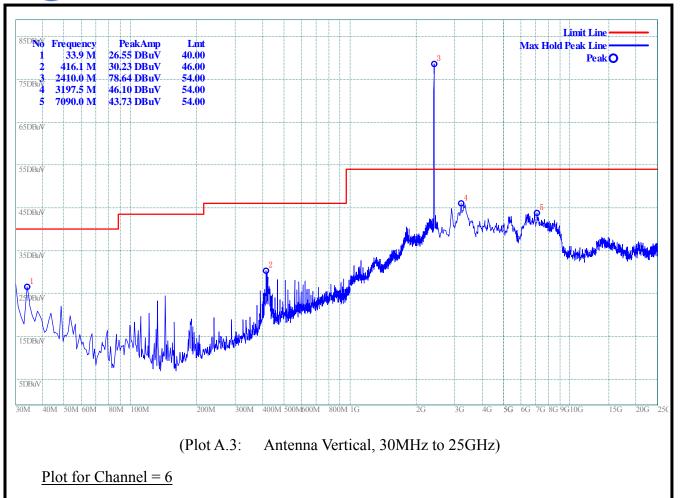
B. Test Plots for the Whole Measurement Frequency Range:

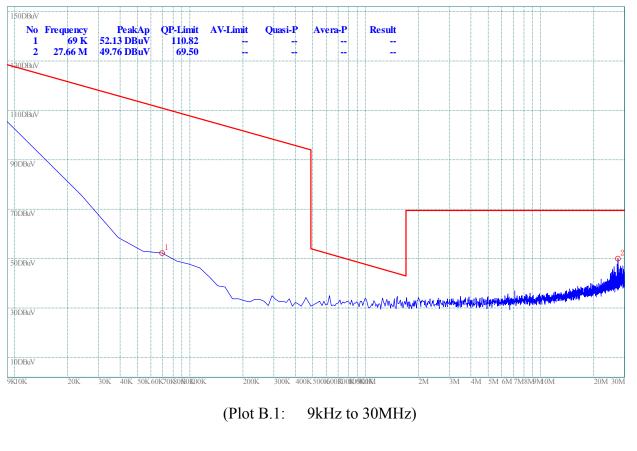
<u>Plots for Channel = 1</u>



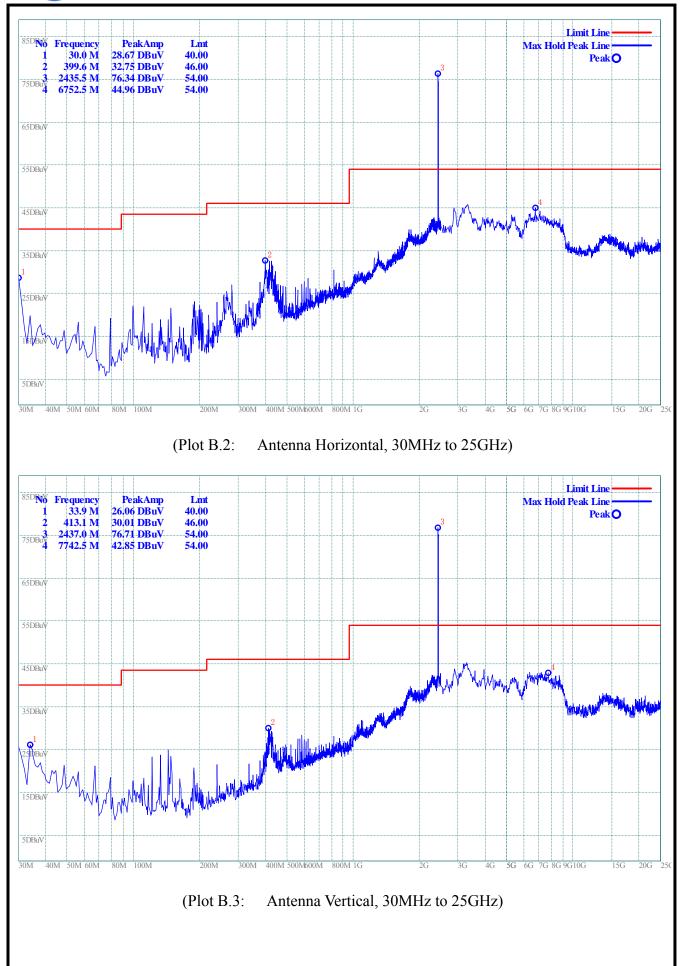




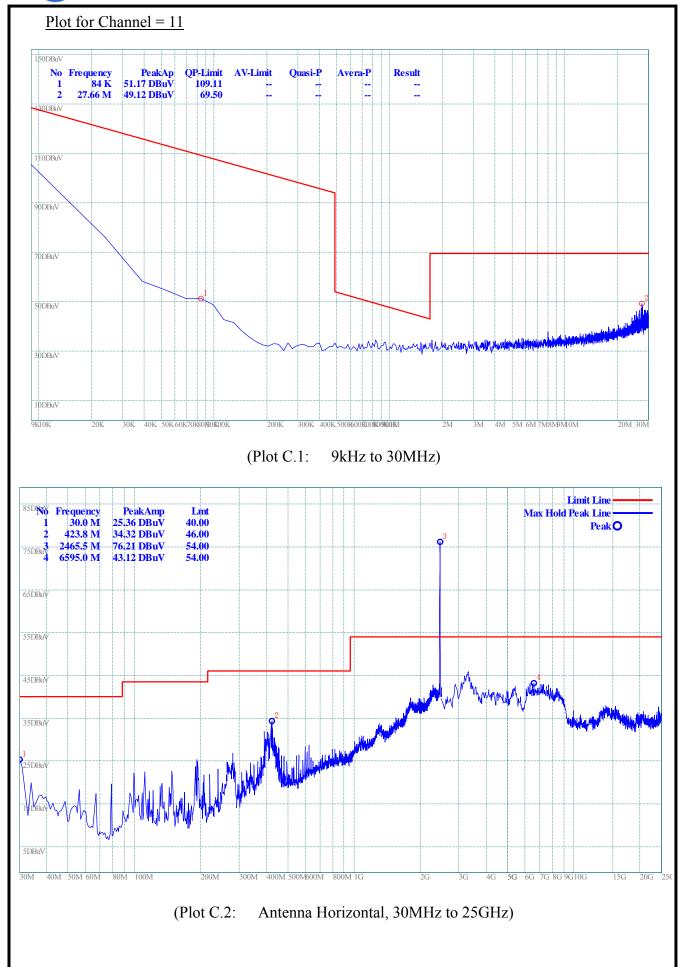




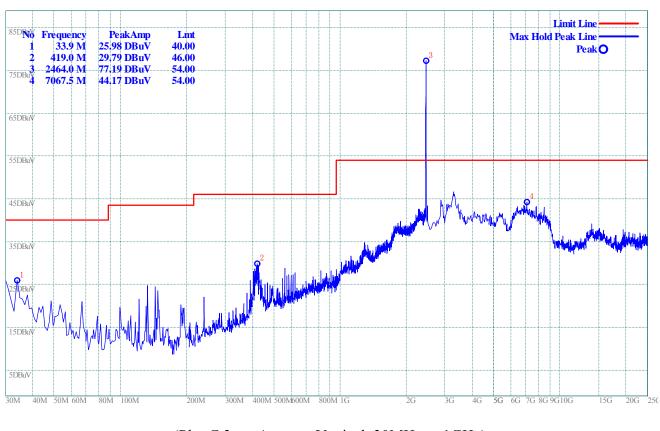












(Plot C.3: Antenna Vertical, 30MHz to 1GHz)

2.6.3.2. 802.11g Test mode

The maximum radiated emission is searched using PK, if the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV or QP detectors.

A. Test Verdict for Harmonics:

The Fundamental Emissions

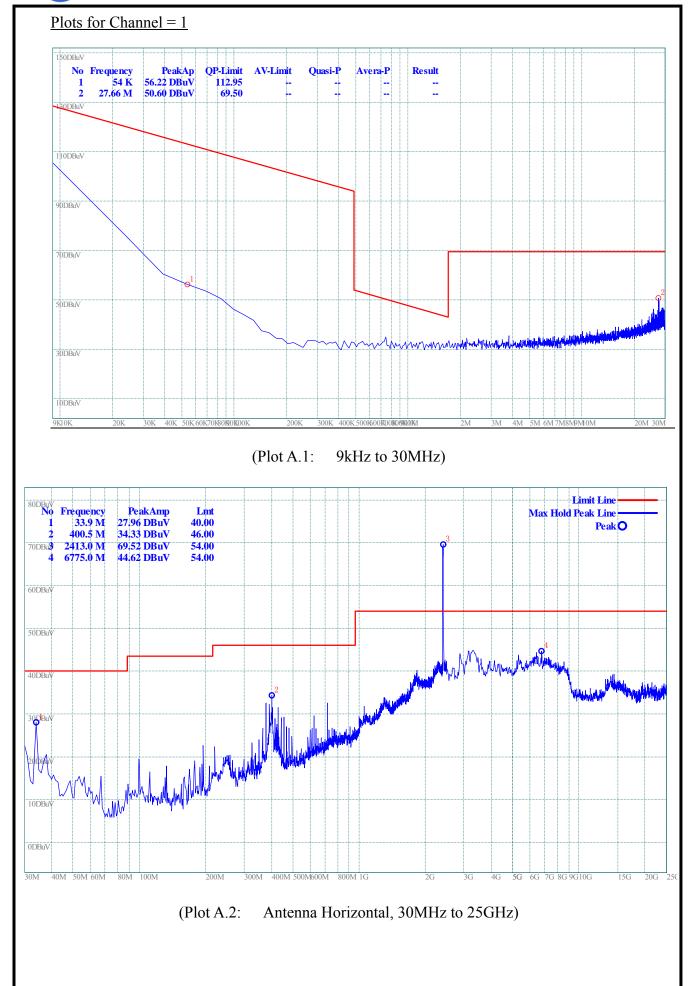
The field strength of {Fundamental Emission} listed below is recorded, and used in the next table.

Channel Frequenc (MHz)	Frequency (MHz)	Fundamental Emission (dBµV/m)		Antenna Polarization	Refer to Plot	
	(11112)	PK	AV	1 oluitzation		
1 24	2412	69.52	68.22	Horizontal	Plot A.2	
	2412	69.32	68.35	Vertical	Plot A.3	
6 2437	2427	70.46	69.86	Horizontal	Plot B.2	
	2437	75.90	69.79	Vertical	Plot B.3	
11	2462	72.13	71.22	Horizontal	Plot C.2	
		75.06	72.23	Vertical	Plot C.3	

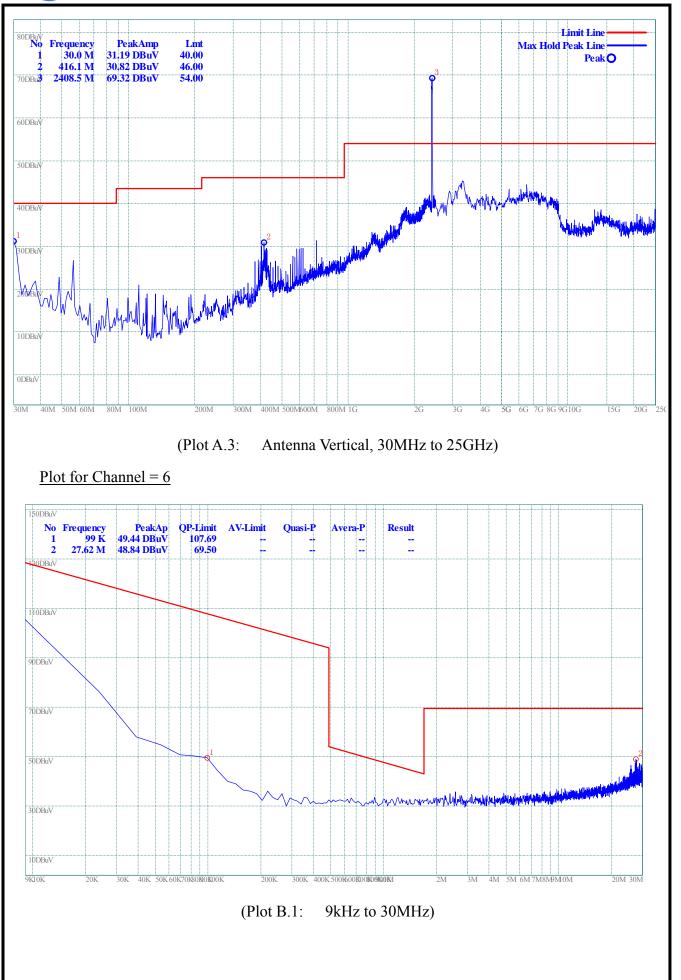
Also refer to following plots for the emissions falling in the restricted bands.

B. Test Plots for the Whole Measurement Frequency Range:

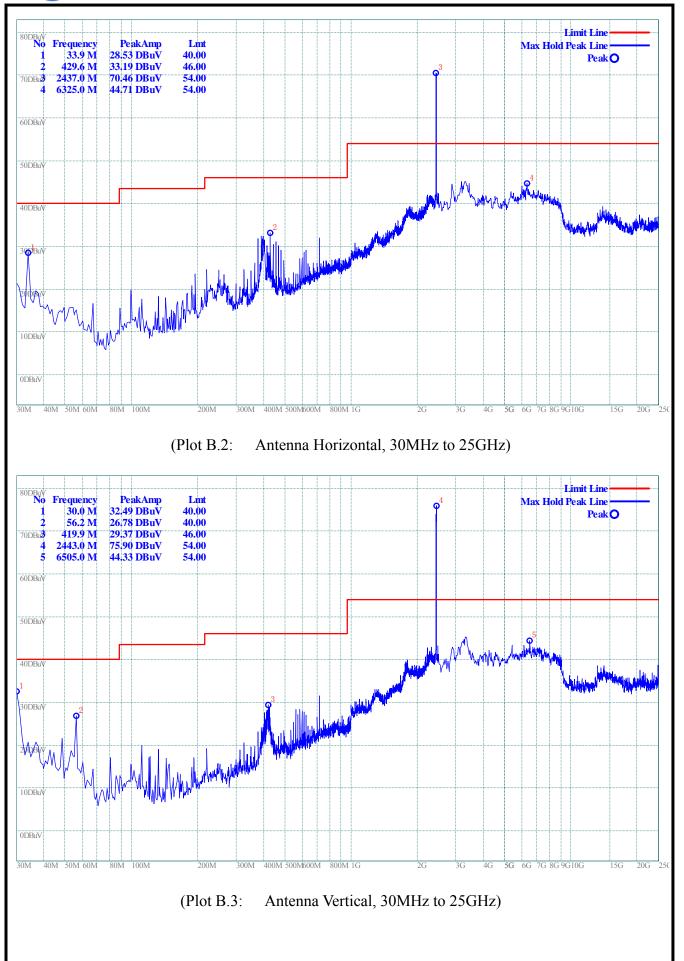














<u>Plot for Channel = 11</u>

