

## FCC Test Report

**Report No.:** RF170609C20

**FCC ID:** QXO-AP3915E

**Test Model:** AP3915e

**Series Model:** AP7632 (refer to item 3.1 for more details)

**Received Date:** Jun. 09, 2017

**Test Date:** Jun. 09 ~ Aug. 07, 2017

**Issued Date:** Aug. 09, 2017

**Applicant:** Extreme Networks, Inc.

**Address:** 6480 VIA DEL ORO SAN JOSE CA 95119 USA

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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### Release Control Record

Issue No.	Description	Date Issued
RF170609C20	Original release.	Aug. 09, 2017

## 1 Certificate of Conformity

**Product:** Wireless 802.11 a/ac+b/g/n Indoor Access Point

**Brand:** Extreme Networks

**Test Model:** AP3915e

**Series Model:** AP7632 (refer to item 3.1 for more details)

**Sample Status:** Engineering sample

**Applicant:** Extreme Networks, Inc.

**Test Date:** Jun. 09 ~ Aug. 07, 2017

**Standards:** 47 CFR FCC Part 15, Subpart C (Section 15.247)  
ANSI C63.10:2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :** Celine Chou , **Date:** Aug. 09, 2017  
Celine Chou / Specialist

**Approved by :** Ken Liu , **Date:** Aug. 09, 2017  
Ken Liu / Senior Manager

## 2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -5.27dB at 0.47400MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.1dB at 2390.00MHz.
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth	Pass	Meet the requirement of limit.
15.247(b)	Conducted power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connectors are RP-SMA Male, N Male, RPSMA and Fixed N-Male Std polarity not a standard connector.

### 2.1 Measurement Uncertainty

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	Expanded Uncertainty (k=2) ( $\pm$ )
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.94 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.86 dB
	200MHz ~ 1000MHz	3.87 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

### 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

Product	Wireless 802.11 a/ac+b/g/n Indoor Access Point
Brand	Extreme Networks
Test Model	AP3915e
Series Model	AP7632
Model Difference	Refer to note for more details
Sample Status	Engineering sample
Power Supply Rating	12Vdc from adapter 54Vdc from POE
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps
Operating Frequency	2412 ~ 2462MHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20): 11 802.11n (HT40): 7
Output Power	ML-2452-APA2-01, ML-2452-APA2-02 and ML-2452-HPA5-036 Ant.: CDD Mode: 347.575mW Beamforming Mode: 167.880mW ML-2452-HPAG4A6-01 Ant.: CDD Mode: 337.824mW Beamforming Mode: 167.494mW ML-2452-HPA6M4-S36 Ant.: CDD Mode: 337.824mW Beamforming Mode: 167.494mW ML-2452-PNL9M3-036 Ant.: CDD Mode: 305.978mW Beamforming Mode: 296.189mW ML-2452-PNL6M3-N36, ML-2452-PNA5-01R and ML-2452-PNA7-01R Ant.: CDD Mode: 330.856mW Beamforming Mode: 161.436mW ML-2452-PTA2M2-036 and ML-2452-PTA4M4-036 Ant.: CDD Mode: 360.481mW Beamforming Mode: 169.434mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Cable Supplied	NA

**Note:**

1. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

Modulation Mode	TX Function	Beamforming
802.11b	2TX	Not Support
802.11g	2TX	Not Support
802.11n (HT20)	2TX	Support
802.11n (HT40)	2TX	Support

\* For 802.11n, CDD mode and Beamforming mode are presented in power output test item. For other test items, CDD mode is the worst case for final tests after pretesting.

2. All models are listed as below. Model: AP3915e was chosen for final test.

Brand	Model	Difference
Extreme Networks	AP3915e	All models are electrically identical, only the cover printing is different.
	AP7632	

3. The EUT consumes power from the following adapter and POE. (Support unit only)

Adapter	
Brand	Powertron Electronics Corp.
Model	PA1024-120IB200
Input Power	100-240Vac, 50-60Hz, 0.6A.
Output Power	12Vdc, 2A, 24W Max
Power Line	1.5m power cable with one core attached on adapter

POE	
Brand	EnGenius
Model	EPA5006GP
Input Power	100-240Vac, 50-60Hz, 0.8A
Output Power	54Vdc, 0.6A Pin 4, 5: 54Vdc Pin 7, 8: Return



4. The following antennas were provided to the EUT.

No.	Function	Type	Manufacturer/ Vendor	Model	Gain (dBi)		Connector
					2.4GHz Band	5GHz Band	
1	WLAN	Dipole	Wha Yu	ML-2452-APA2-01	3.17	4.85	RP-SMA Male
2	WLAN	Dipole	Wha Yu	ML-2452-APA2-02	3	5	RP-SMA Male
3	WLAN	Dipole	Laird	ML-2452-HPA5-036	3	5	RP-SMA Male
4	WLAN	Dipole	Laird	ML-2452-HPAG4A6-01	4	7.3	N Male
5	WLAN	Dipole	Ventev	ML-2452-HPA6M4-S36	6.0	6.0	RP-SMA
6	WLAN	Panel	Laird	ML-2452-PNL9M3-036	11.0	10.7	RP-SMA Male
7	WLAN	Panel	Laird	ML-2452-PNL6M3-N36	6	6	N Male
8	WLAN	Panel	Laird	ML-2452-PNA5-01R	5.5	6	N Male
9	WLAN & BT LE & Zigbee	Panel	Laird	ML-2452-PNA7-01R	7.8	10.7	N Male
10	WLAN	Patch	Laird	ML-2452-PTA2M2-036	4	5	RP-SMA Male
11	WLAN	Patch	Laird	ML-2452-PTA4M4-036	5	6.6	RP-SMA Male
12	BT LE & Zigbee	Omni	Laird	ML-2499-HPA8-01	8	-	Fixed N-Male Std polarity

\* ML-2452-PNL9M3-036 Ant. was cross-polarized antenna.

5. Power Setting as below.

ML-2452-APA2-01, ML-2452-APA2-02 and ML-2452-HPA5-036 Ant. (same power setting):

CDD Mode					
	802.11b	802.11g	802.11n (HT20)		802.11n (HT40)
CH 1	23	20.5	19.5	CH 3	16.5
CH 6	23	23	23	CH 6	20.5
CH 11	23	20.5	21	CH 9	20.5
Beamforming Mode					
	802.11n (HT20)			802.11n (HT40)	
CH 1	19.5		CH 3	16.5	
CH 6	23		CH 6	20.5	
CH 11	21		CH 9	20.5	

ML-2452-HPAG4A6-01 Ant. (individual power setting):

CDD Mode					
	802.11b	802.11g	802.11n (HT20)		802.11n (HT40)
CH 1	23	20.5	19.5	CH 3	16.5
CH 6	23	23	23	CH 6	20.5
CH 11	22	20	20.5	CH 9	20
Beamforming Mode					
	802.11n (HT20)			802.11n (HT40)	
CH 1	19.5		CH 3	16.5	
CH 6	23		CH 6	20.5	
CH 11	20.5		CH 9	20	

ML-2452-HPA6M4-S36 Ant. (individual power setting):

CDD Mode					
	802.11b	802.11g	802.11n (HT20)		802.11n (HT40)
CH 1	23	20.5	19.5	CH 3	16.5
CH 6	23	23	23	CH 6	20.5
CH 11	22	20	20.5	CH 9	20
Beamforming Mode					
	802.11n (HT20)			802.11n (HT40)	
CH 1	19.5		CH 3	16.5	
CH 6	23		CH 6	20.5	
CH 11	20.5		CH 9	20	

ML-2452-PNL9M3-036 Ant. (individual power setting):

CDD Mode					
	802.11b	802.11g	802.11n (HT20)		802.11n (HT40)
CH 1	22.5	13.5	13.5	CH 3	15
CH 6	22.5	22.5	22.5	CH 6	20
CH 11	22.5	20.5	20.5	CH 9	19.5
Beamforming Mode					
	802.11n (HT20)			802.11n (HT40)	
CH 1	13.5		CH 3	15	
CH 6	22.5		CH 6	20	
CH 11	20.5		CH 9	19.5	

ML-2452-PNL6M3-N36, ML-2452-PNA5-01R and ML-2452-PNA7-01R Ant. (same power setting):

CDD Mode					
	802.11b	802.11g	802.11n (HT20)		802.11n (HT40)
CH 1	23	14.5	14.5	CH 3	13.5
CH 6	22.5	23	23	CH 6	17.5
CH 11	21	19	18	CH 9	14
Beamforming Mode					
	802.11n (HT20)			802.11n (HT40)	
CH 1	14.5		CH 3	13.5	
CH 6	23		CH 6	17.5	
CH 11	18		CH 9	14	

ML-2452-PTA2M2-036 and ML-2452-PTA4M4-036 Ant. (same power setting):

CDD Mode					
	802.11b	802.11g	802.11n (HT20)		802.11n (HT40)
CH 1	23	20	20	CH 3	16.5
CH 6	23	23	23	CH 6	20
CH 11	23	21.5	21.5	CH 9	20
Beamforming Mode					
	802.11n (HT20)			802.11n (HT40)	
CH 1	20		CH 3	16.5	
CH 6	23		CH 6	20	
CH 11	21.5		CH 9	20	

6. 2.4GHz & 5GHz & BT LE or 2.4GHz & 5GHz & Zigbee technology can transmit at same time. BT LE and Zigbee cannot transmit simultaneously.
7. Spurious emission of the simultaneous operation (2.4GHz & 5GHz & BT LE or 2.4GHz & 5GHz & Zigbee) has been evaluated and no non-compliance was found.

### 3.2 Description of Test Modes

11 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

Channel	Frequency	Channel	Frequency
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

7 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	2437MHz		

### 3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE $\geq$ 1G	RE $<$ 1G	PLC	APCM	
A	-	√	√	-	EUT with ML-2452-APA2-01 Ant. power by adapter
B	√	√	√	√	EUT with ML-2452-APA2-01 Ant. power by POE
C	-	-	-	√	EUT with ML-2452-HPAG4A6-01 Ant. power by POE
D	-	√	√	-	EUT with ML-2452-HPA6M4-S36 Ant. power by adapter
E	√	√	√	√	EUT with ML-2452-HPA6M4-S36 Ant. power by POE
F	-	√	√	-	EUT with ML-2452-PNL9M3-036 Ant. power by adapter
G	√	√	√	√	EUT with ML-2452-PNL9M3-036 Ant. power by POE
H	-	√	√	-	EUT with ML-2452-PNA7-01R Ant. power by adapter
I	√	√	√	√	EUT with ML-2452-PNA7-01R Ant. power by POE
J	-	√	√	-	EUT with ML-2452-PTA4M4-036 Ant. power by adapter
K	√	√	√	√	EUT with ML-2452-PTA4M4-036 Ant. power by POE

Where RE $\geq$ 1G: Radiated Emission above 1GHz & Bandedge Measurement  
 RE $<$ 1G: Radiated Emission below 1GHz  
 PLC: Power Line Conducted Emission  
 APCM: Antenna Port Conducted Measurement

Note:

- The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane for test mode B, Y-plane for test mode I and Z-plane for test mode E, G, K.**
- "-" means no effect.

#### Radiated Emission Test (Above 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
B, E, G, I, K	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
B, E, G, I, K	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
B, E, G, I, K	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
B, E, G, I, K	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	13.5

#### Radiated Emission Test (Below 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
A, B, D, E, F, G, H, I, J, K	802.11b	1 to 11	1	DSSS	DBPSK	1.0

#### Power Line Conducted Emission Test:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
A, B, D, E, F, G, H, I, J, K	802.11b	1 to 11	1	DSSS	DBPSK	1.0

**6dB Bandwidth, Power Spectral Density and Conducted Out of Band Emission Measurement:**

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
B, C, E, G, I, K	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
B, C, E, G, I, K	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
B, C, E, G, I, K	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
B, C, E, G, I, K	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	13.5

**Conducted Output Power Measurement:**

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
<b>CDD Mode</b>						
B, C, E, G, I, K	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
B, C, E, G, I, K	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
B, C, E, G, I, K	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
B, C, E, G, I, K	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	13.5
<b>Beamforming Mode</b>						
B, C, E, G, I, K	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
B, C, E, G, I, K	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	13.5

**Test Condition:**

Applicable to	Environmental Conditions	Input Power (System)	Tested by
<b>RE≥1G</b>	27 deg. C, 66% RH 23 deg. C, 66% RH 26 deg. C, 69% RH 27 deg. C, 68% RH	120Vac, 60Hz	James Chang Willy Cheng
<b>RE&lt;1G</b>	23 deg. C, 64% RH	120Vac, 60Hz 54Vdc	Jones Chang
<b>PLC</b>	25 deg. C, 75% RH	120Vac, 60Hz 54Vdc	Luis Lee
<b>APCM</b>	25 deg. C, 60% RH	120Vac, 60Hz	Edward Lin Ted Chang

### 3.3 Duty Cycle of Test Signal

#### Test Mode B

802.11b: Duty cycle of test signal is  $\geq 98\%$ , duty factor is not required.

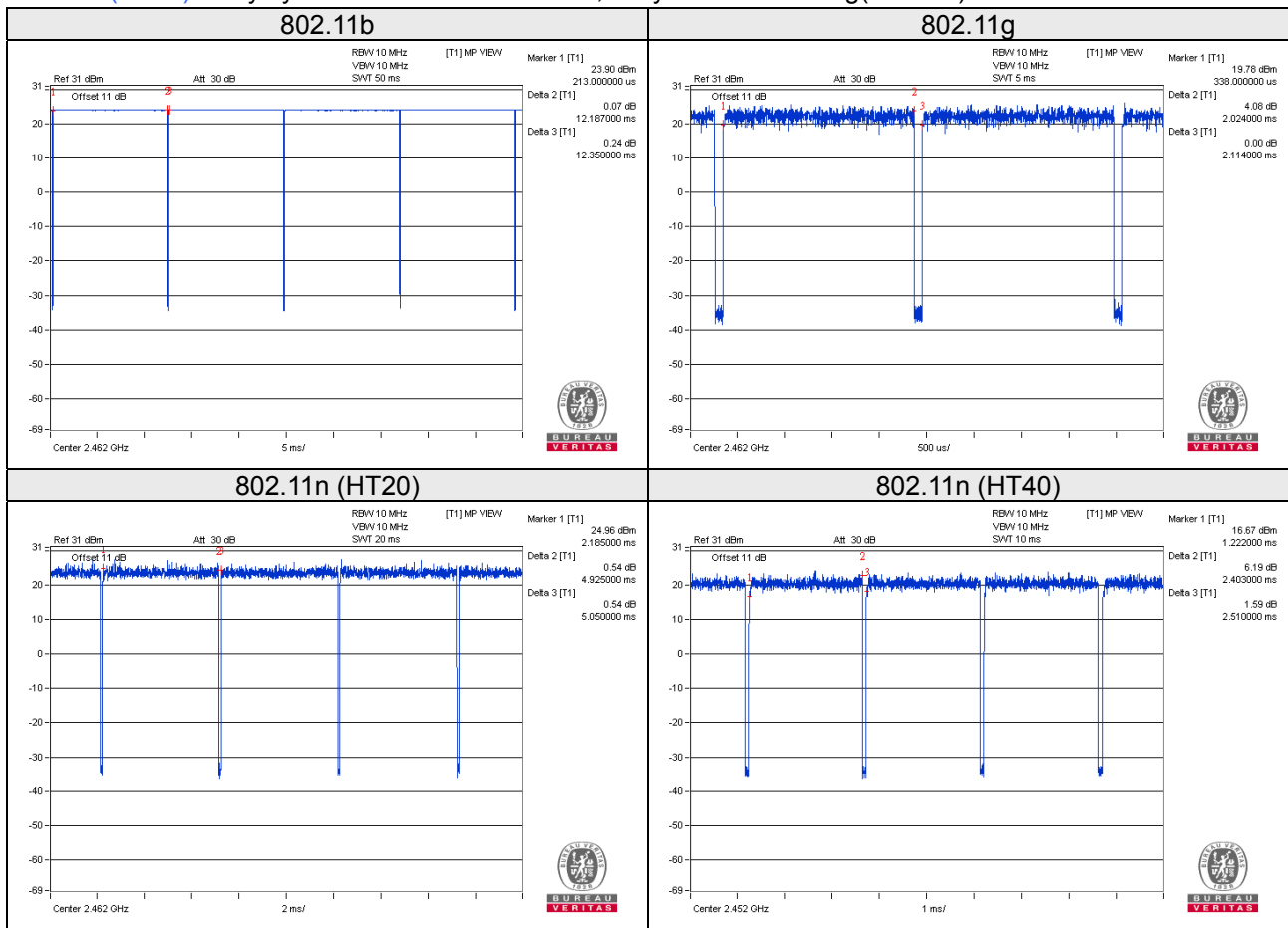
802.11g, 802.11n (HT20), 802.11n (HT40): Duty cycle of test signal is  $< 98\%$ , duty factor is required.

802.11b: Duty cycle =  $12.187/12.350 = 0.987$

802.11g: Duty cycle =  $2.024/2.114 = 0.957$ , Duty factor =  $10 * \log(1/0.957) = 0.19$

802.11n (HT20): Duty cycle =  $4.925/5.050 = 0.975$ , Duty factor =  $10 * \log(1/0.975) = 0.11$

802.11n (HT40): Duty cycle =  $2.403/2.510 = 0.957$ , Duty factor =  $10 * \log(1/0.957) = 0.19$



### Test Mode C

802.11b: Duty cycle of test signal is  $\geq 98\%$ , duty factor is not required.

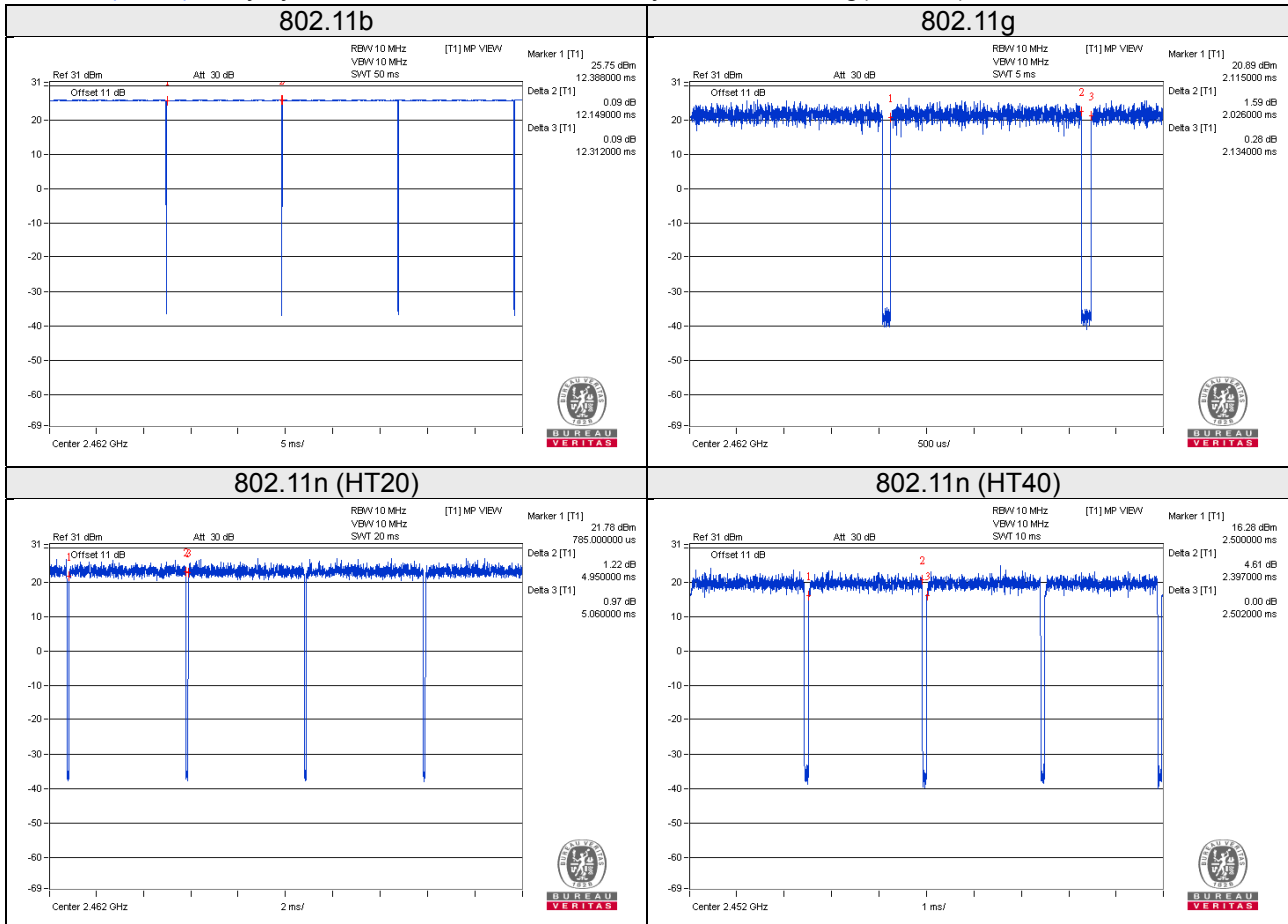
802.11g, 802.11n (HT20), 802.11n (HT40): Duty cycle of test signal is  $< 98\%$ , duty factor is required.

802.11b: Duty cycle =  $12.149/12.312 = 0.987$

802.11g: Duty cycle =  $2.026/2.134 = 0.949$ , Duty factor =  $10 * \log(1/0.949) = 0.23$

802.11n (HT20): Duty cycle =  $4.950/5.060 = 0.978$ , Duty factor =  $10 * \log(1/0.978) = 0.10$

802.11n (HT40): Duty cycle =  $2.397/2.502 = 0.958$ , Duty factor =  $10 * \log(1/0.958) = 0.19$



### Test Mode E

**802.11b:** Duty cycle of test signal is  $\geq 98\%$ , duty factor is not required.

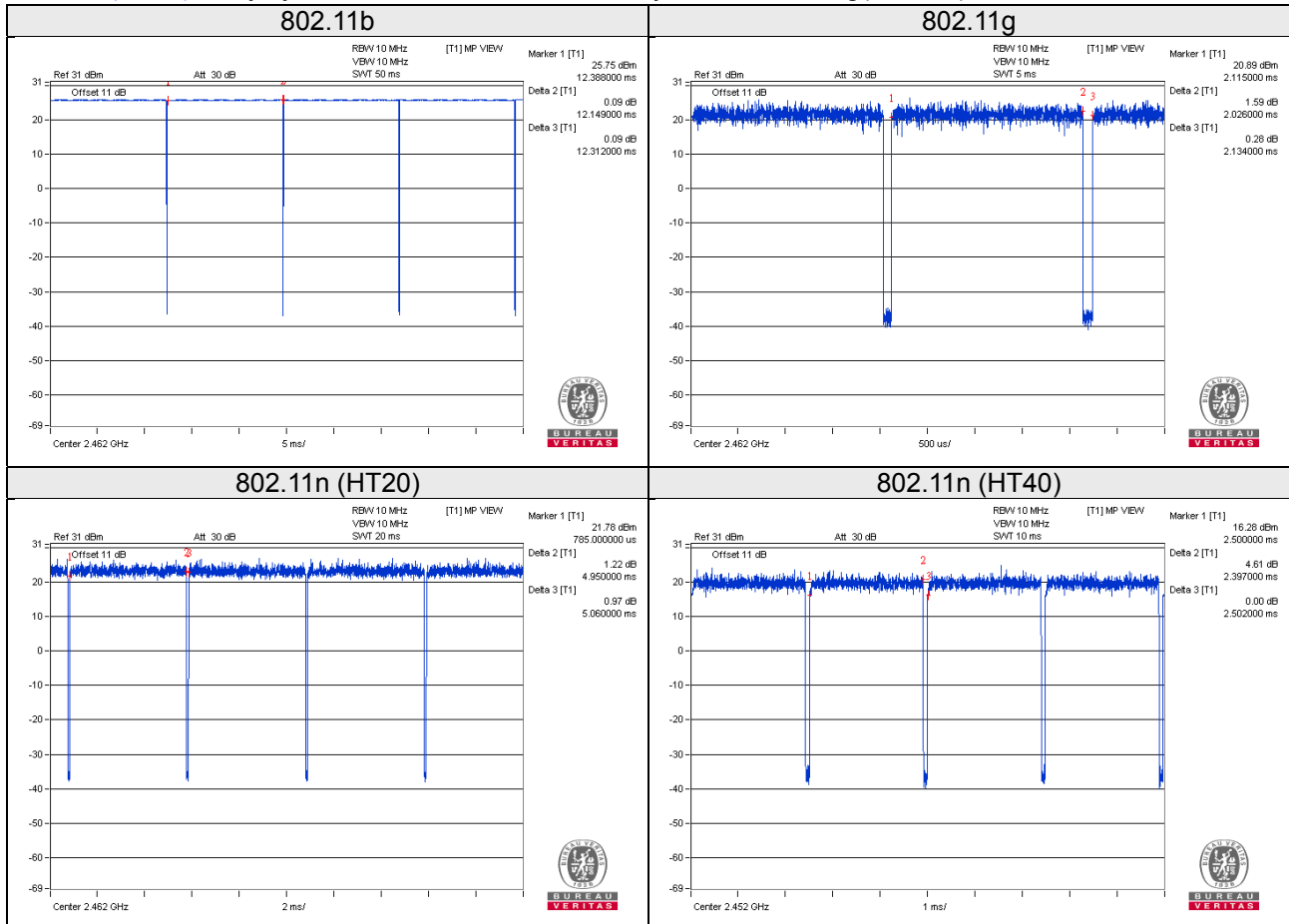
**802.11g, 802.11n (HT20), 802.11n (HT40):** Duty cycle of test signal is  $< 98\%$ , duty factor is required.

**802.11b:** Duty cycle =  $12.149/12.312 = 0.987$

**802.11g:** Duty cycle =  $2.026/2.134 = 0.949$ , Duty factor =  $10 * \log(1/0.949) = 0.23$

**802.11n (HT20):** Duty cycle =  $4.950/5.060 = 0.978$ , Duty factor =  $10 * \log(1/0.978) = 0.10$

**802.11n (HT40):** Duty cycle =  $2.397/2.502 = 0.958$ , Duty factor =  $10 * \log(1/0.958) = 0.19$





### Test Mode G

802.11b, 802.11n (HT20): Duty cycle of test signal is  $\geq 98\%$ , duty factor is not required.

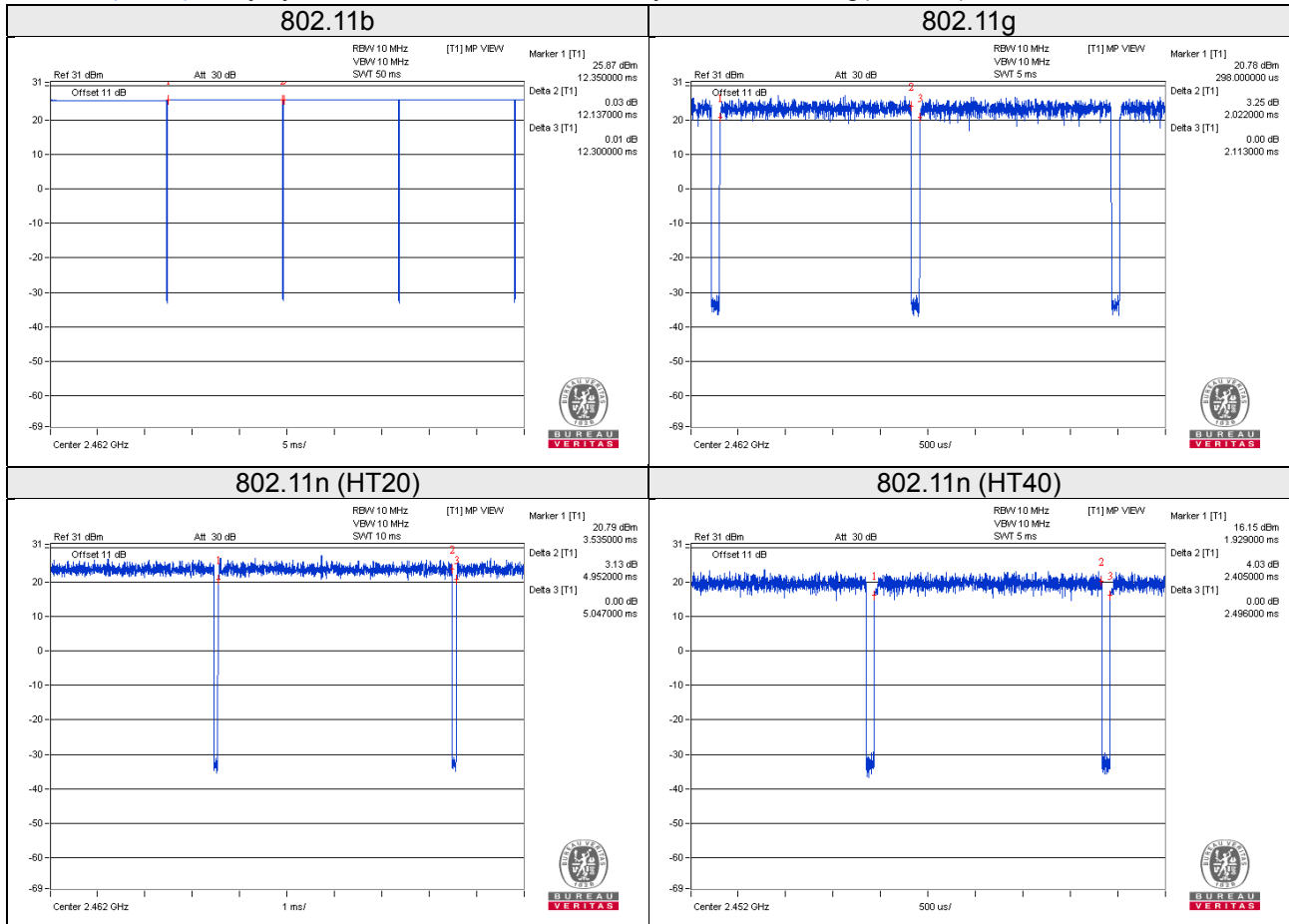
802.11g, 802.11n (HT40): Duty cycle of test signal is  $< 98\%$ , duty factor is required.

802.11b: Duty cycle =  $12.137/12.300 = 0.987$

802.11g: Duty cycle =  $2.022/2.113 = 0.957$ , Duty factor =  $10 * \log(1/0.957) = 0.19$

802.11n (HT20): Duty cycle =  $4.952/5.047 = 0.981$

802.11n (HT40): Duty cycle =  $2.405/2.496 = 0.964$ , Duty factor =  $10 * \log(1/0.964) = 0.16$



**Test Mode I**

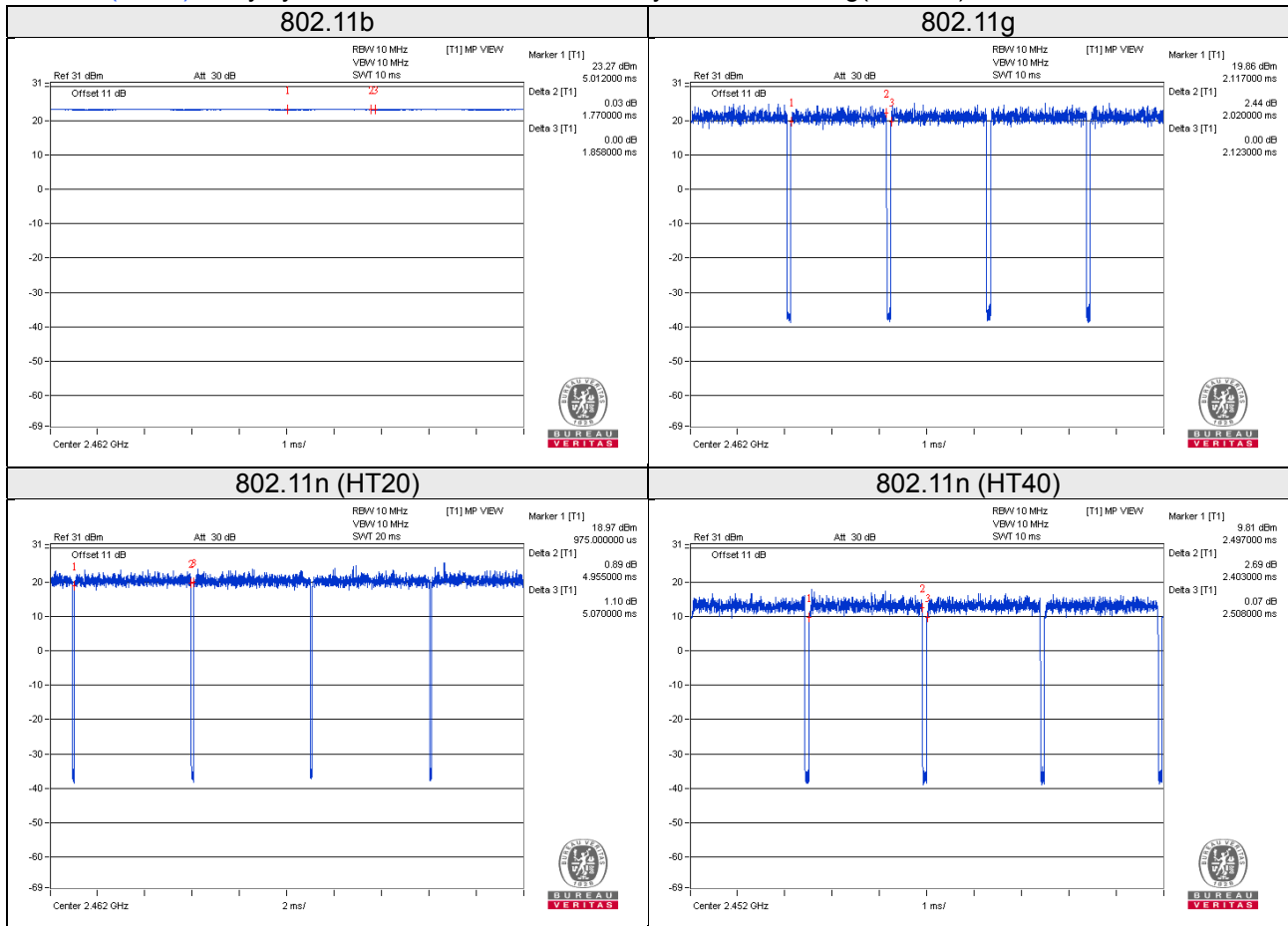
**802.11b:** Duty cycle of test signal is 100%, duty factor is not required.

**802.11g, 802.11n (HT20), 802.11n (HT40):** Duty cycle of test signal is < 98%, duty factor is required.

**802.11g:** Duty cycle =  $2.020/2.123 = 0.951$ , Duty factor =  $10 * \log(1/0.951) = 0.22$

**802.11n (HT20):** Duty cycle =  $4.955/5.070 = 0.977$ , Duty factor =  $10 * \log(1/0.977) = 0.10$

**802.11n (HT40):** Duty cycle =  $2.403/2.508 = 0.958$ , Duty factor =  $10 * \log(1/0.958) = 0.19$



### Test Mode K

802.11b, 802.11n (HT20): Duty cycle of test signal is  $\geq 98\%$ , duty factor is not required.

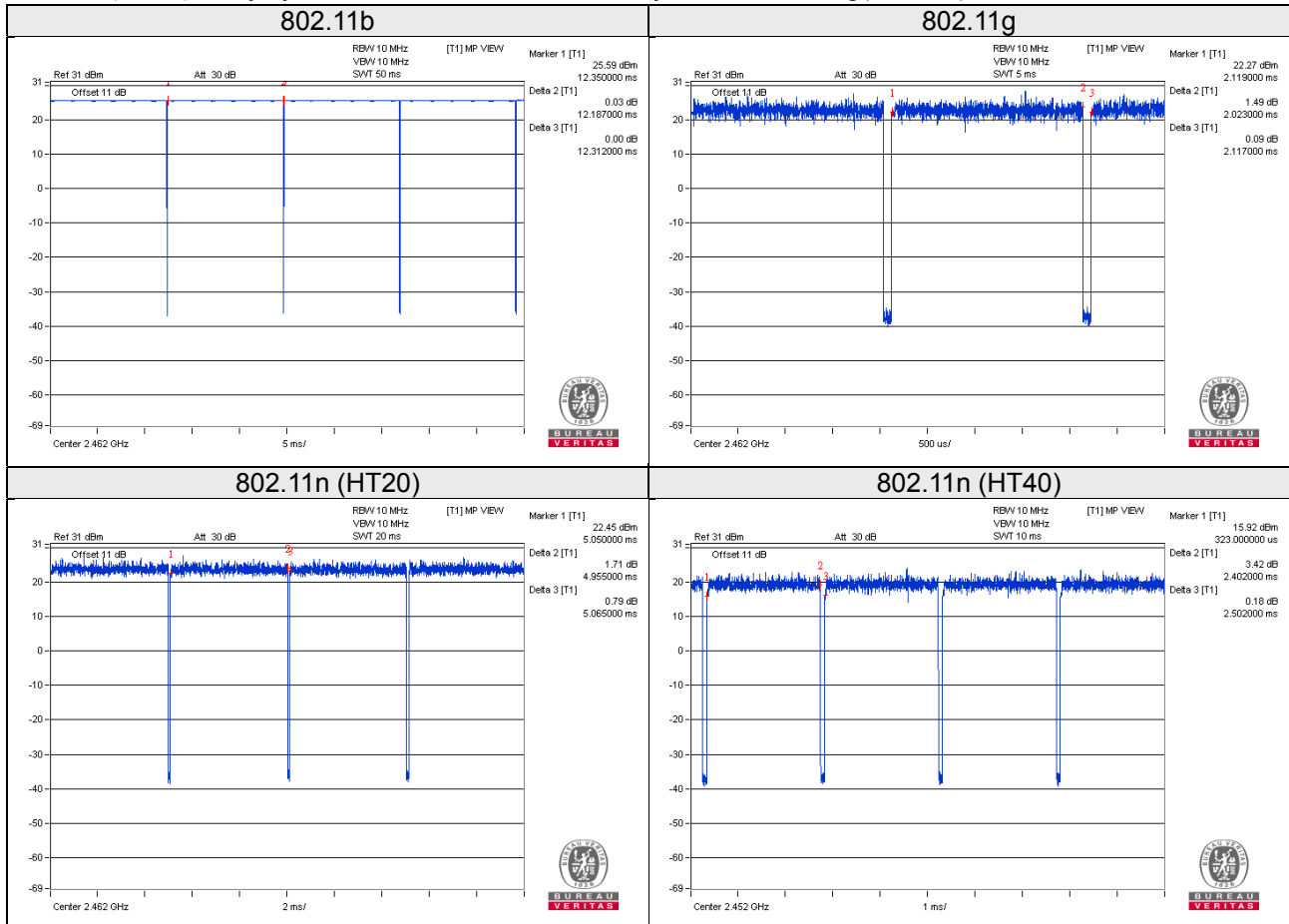
802.11g, 802.11n (HT40): Duty cycle of test signal is  $< 98\%$ , duty factor is required.

802.11b: Duty cycle =  $12.187/12.312 = 0.990$

802.11g: Duty cycle =  $2.023/2.117 = 0.956$ , Duty factor =  $10 * \log(1/0.956) = 0.20$

802.11n (HT20): Duty cycle =  $4.955/5.065 = 0.978$ , Duty factor =  $10 * \log(1/0.978) = 0.10$

802.11n (HT40): Duty cycle =  $2.402/2.502 = 0.960$ , Duty factor =  $10 * \log(1/0.960) = 0.18$



### 3.4 Description of Support Units

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

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5410	1HC2XM1	FCC DoC Approved	-
B.	USB Flash	HP	v250W	10	FCC DoC Approved	-
C.	Adapter	Powertron Electronics Corp.	PA1024-120IB200	NA	NA	Provided by manufacturer
D.	POE	EnGenius	EPA5006GP	NA	NA	Provided by manufacturer

Note:

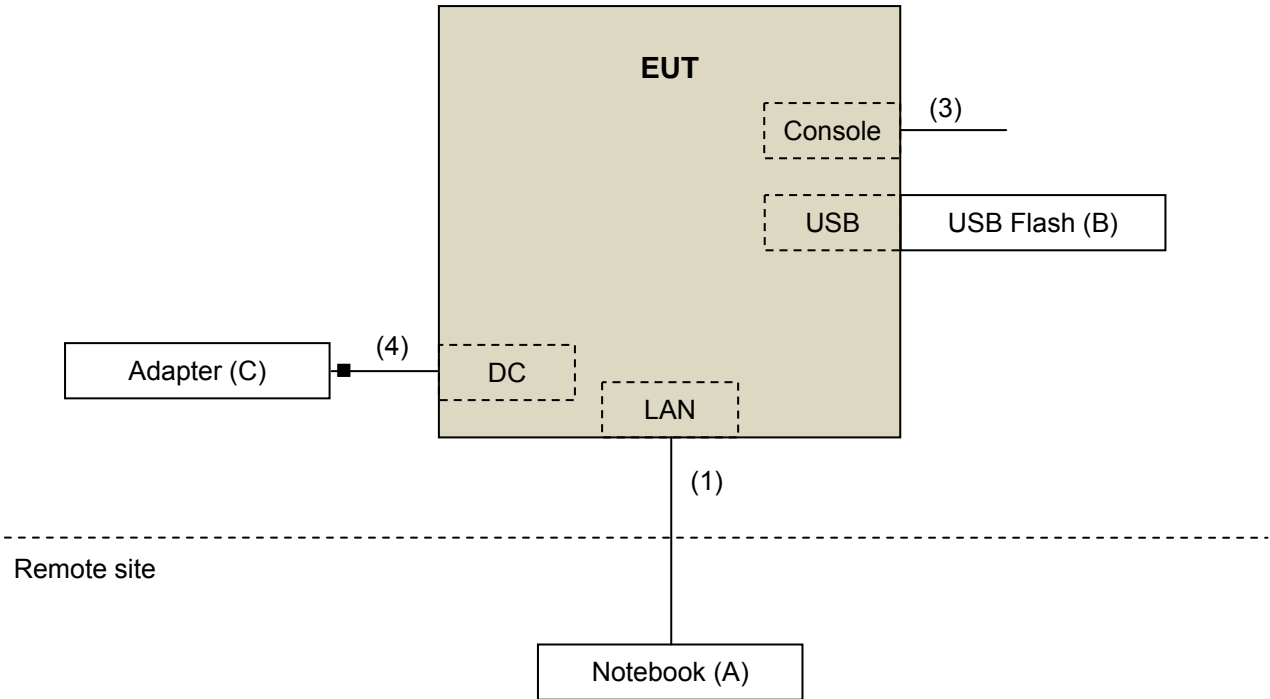
1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as a communication partner to transfer data.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ45, Cat5e	1	3	N	0	-
2.	RJ45, Cat5e	1	1.8	N	0	-
3.	Console cable	1	1	N	0	Provided by manufacturer
4.	Power cable	1	1.5	N	1	Provided by manufacturer

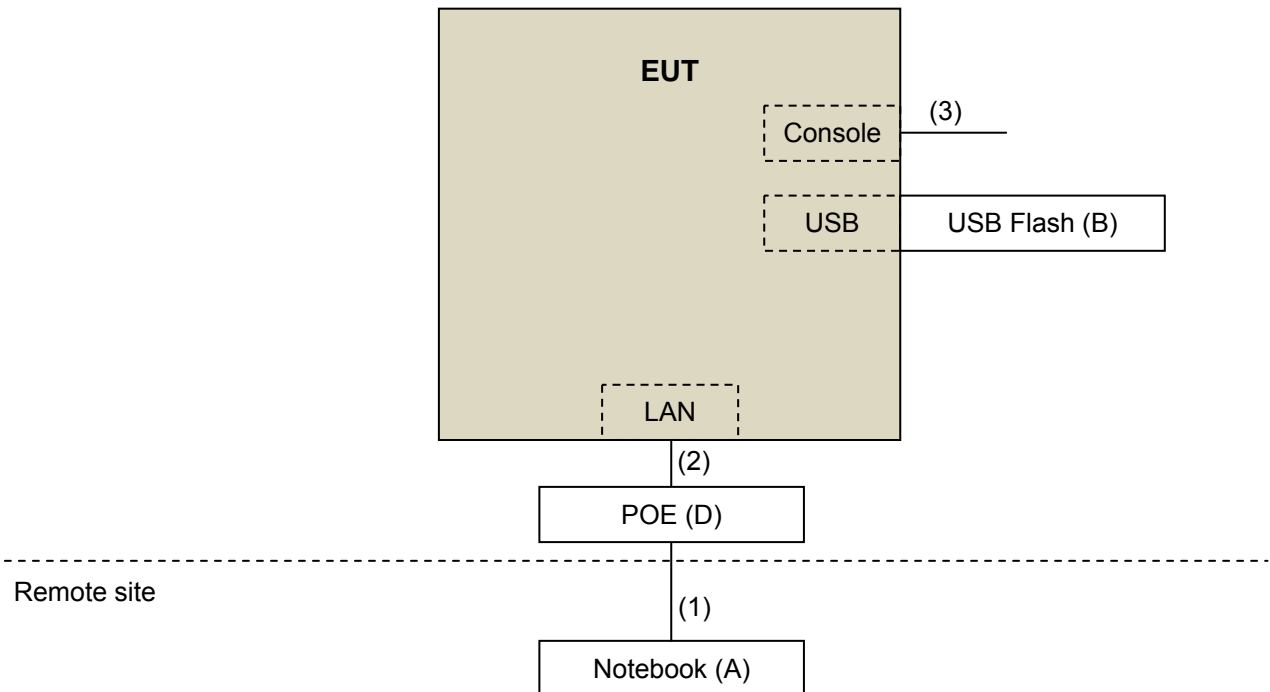
Note: The core(s) is(are) originally attached to the cable(s).

### 3.4.1 Configuration of System under Test

#### Adapter Mode



#### POE Mode



### 3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC Part 15, Subpart C (15.247)**

**KDB 558074 D01 DTS Meas Guidance v04**

**KDB 662911 D01 Multiple Transmitter Output v02r01**

**ANSI C63.10-2013**

All test items have been performed and recorded as per the above standards.

Note: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC).  
The test report has been issued separately.

## 4 Test Types and Results

### 4.1 Radiated Emission and Bandedge Measurement

#### 4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 30dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/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

**Note:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 30dB under any condition of modulation.

#### 4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	May 02, 2017	May 01, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Nov. 16, 2016	Nov. 15, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Dec. 28, 2016	Dec. 27, 2017
HORN Antenna SCHWARZBECK	9120D	209	Dec. 27, 2016	Dec. 26, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 14, 2016	Dec. 13, 2017
Loop Antenna	EM-6879	269	Aug. 11, 2016	Aug. 10, 2017
Preamplifier Agilent	8447D	2944A10738	Aug. 22, 2016	Aug. 21, 2017
Preamplifier Agilent	8449B	3008A01922	Sep. 18, 2016	Sep. 17, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (214378)	Aug. 22, 2016	Aug. 21, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 106	Cable-CH3-03 (309224+12738)	Aug. 22, 2016	Aug. 21, 2017
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
High Speed Peak Power Meter	ML2495A	0824012	Aug. 11, 2016	Aug. 10, 2017
Power Sensor	MA2411B	0738171	Aug. 11, 2016	Aug. 10, 2017

- Note:
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
  2. The test was performed in HwaYa Chamber 3.
  3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
  4. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
  5. The IC Site Registration No. is IC 7450F-3.



### 4.1.3 Test Procedures

#### For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Both X and Y axes of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

**Note:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

#### For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of 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.
- d. 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.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

**Note:**

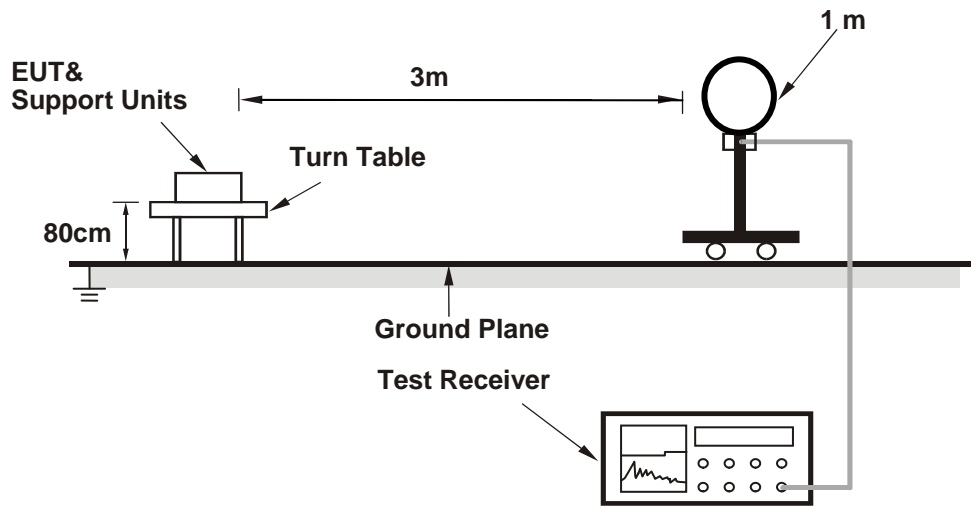
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or 10 Hz (Duty cycle  $\geq 98\%$ ) for Peak detection at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

### 4.1.4 Deviation from Test Standard

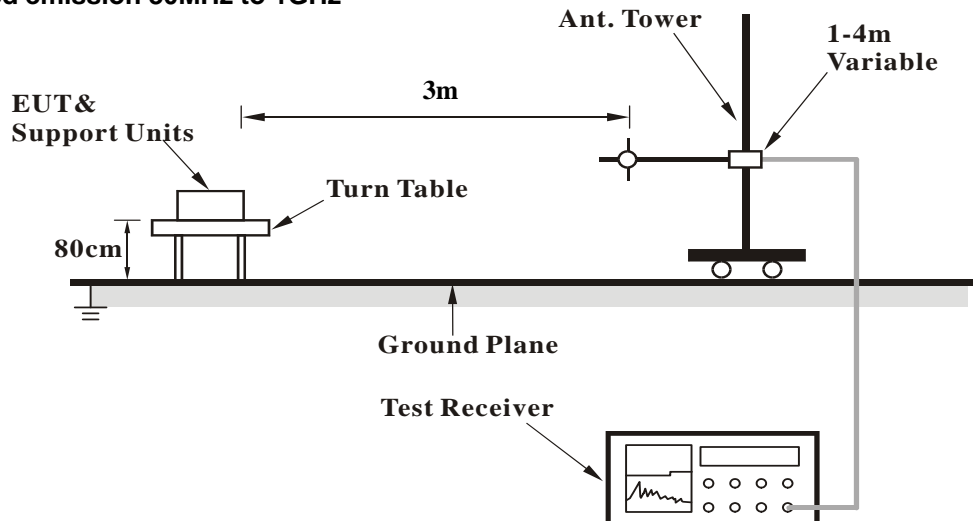
No deviation.

#### 4.1.5 Test Setup

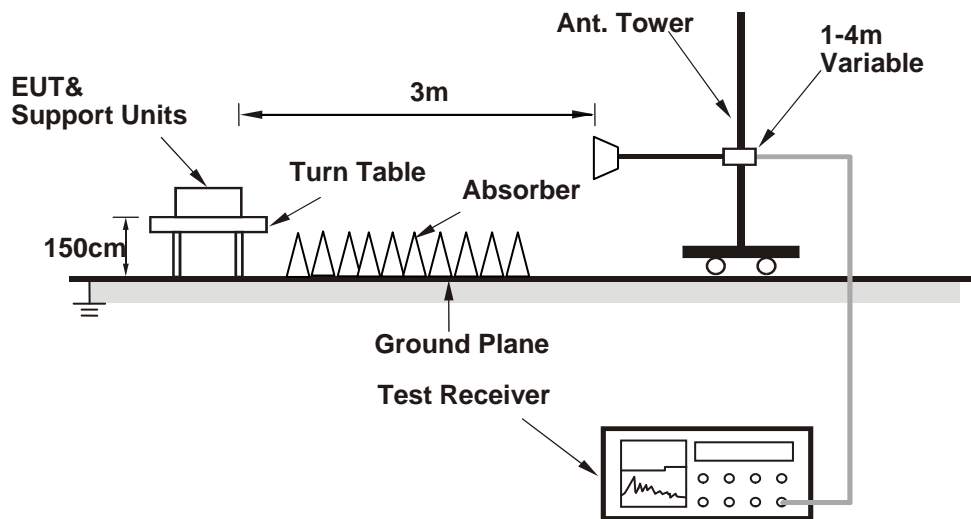
##### For Radiated emission below 30MHz



##### For Radiated emission 30MHz to 1GHz



### For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.1.6 EUT Operating Conditions

- a. Placed the EUT on the testing table.
- b. Prepared a notebook to act as a communication partner and placed it outside of testing area.
- c. The communication partner connected with EUT via a RJ45 cable and ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- d. The communication partner sent data to EUT by command "PING".

#### 4.1.7 Test Results

Above 1GHz Data:

Test Mode B

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.7 PK	74.0	-18.3	1.44 H	138	24.7	31.0
2	2390.00	43.4 AV	54.0	-10.6	1.44 H	138	12.4	31.0
3	*2412.00	106.8 PK			1.52 H	307	75.6	31.2
4	*2412.00	104.6 AV			1.52 H	307	73.4	31.2
5	4824.00	47.9 PK	74.0	-26.1	4.00 H	4	47.4	0.5
6	4824.00	40.0 AV	54.0	-14.0	4.00 H	4	39.5	0.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	56.2 PK	74.0	-17.8	1.78 V	125	25.2	31.0
2	2390.00	46.9 AV	54.0	-7.1	1.78 V	125	15.9	31.0
3	*2412.00	118.1 PK			2.32 V	150	86.9	31.2
4	*2412.00	115.8 AV			2.32 V	150	84.6	31.2
5	4824.00	53.9 PK	74.0	-20.1	1.73 V	218	53.4	0.5
6	4824.00	50.4 AV	54.0	-3.6	1.73 V	218	49.9	0.5

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	106.0 PK			1.39 H	311	74.7	31.3
2	*2437.00	103.9 AV			1.39 H	311	72.6	31.3
3	4874.00	51.5 PK	74.0	-22.5	1.47 H	156	50.9	0.6
4	4874.00	46.4 AV	54.0	-7.6	1.47 H	156	45.8	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	116.7 PK			1.99 V	122	85.4	31.3
2	*2437.00	113.4 AV			1.99 V	122	82.1	31.3
3	4874.00	54.9 PK	74.0	-19.1	1.93 V	216	54.3	0.6
4	4874.00	51.3 AV	54.0	-2.7	1.93 V	216	50.7	0.6

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.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.7 PK			1.33 H	340	75.3	31.4
2	*2462.00	104.3 AV			1.33 H	340	72.9	31.4
3	2483.50	56.1 PK	74.0	-17.9	1.49 H	197	24.6	31.5
4	2483.50	43.9 AV	54.0	-10.1	1.49 H	197	12.4	31.5
5	4924.00	51.0 PK	74.0	-23.0	1.55 H	161	50.4	0.6
6	4924.00	46.0 AV	54.0	-8.0	1.55 H	161	45.4	0.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	117.8 PK			2.06 V	155	86.4	31.4
2	*2462.00	115.6 AV			2.06 V	155	84.2	31.4
3	2483.50	59.7 PK	74.0	-14.3	2.42 V	134	28.2	31.5
4	2483.50	51.8 AV	54.0	-2.2	2.42 V	134	20.3	31.5
5	4924.00	54.4 PK	74.0	-19.6	1.81 V	217	53.8	0.6
6	4924.00	51.3 AV	54.0	-2.7	1.81 V	217	50.7	0.6

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.

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.2 PK	74.0	-15.8	1.42 H	298	27.2	31.0
2	2390.00	45.8 AV	54.0	-8.2	1.42 H	298	14.8	31.0
3	*2412.00	107.5 PK			1.24 H	302	76.3	31.2
4	*2412.00	97.0 AV			1.24 H	302	65.8	31.2
5	4824.00	45.6 PK	74.0	-28.4	1.36 H	231	45.1	0.5
6	4824.00	32.6 AV	54.0	-21.4	1.36 H	231	32.1	0.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.6 PK	74.0	-6.4	2.44 V	173	36.6	31.0
2	2390.00	52.5 AV	54.0	-1.5	2.44 V	173	21.5	31.0
3	*2412.00	117.6 PK			1.71 V	177	86.4	31.2
4	*2412.00	106.8 AV			1.71 V	177	75.6	31.2
5	4824.00	49.8 PK	74.0	-24.2	1.71 V	215	49.3	0.5
6	4824.00	36.1 AV	54.0	-17.9	1.71 V	215	35.6	0.5

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	106.9 PK			3.12 H	290	75.6	31.3
2	*2437.00	96.7 AV			3.12 H	290	65.4	31.3
3	4874.00	48.4 PK	74.0	-25.6	1.47 H	156	47.8	0.6
4	4874.00	34.7 AV	54.0	-19.3	1.47 H	156	34.1	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.8 PK			2.08 V	119	86.5	31.3
2	*2437.00	107.7 AV			2.08 V	119	76.4	31.3
3	4874.00	51.9 PK	74.0	-22.1	1.62 V	215	51.3	0.6
4	4874.00	37.9 AV	54.0	-16.1	1.62 V	215	37.3	0.6

**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.



CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	105.9 PK			1.16 H	37	74.5	31.4
2	*2462.00	95.2 AV			1.16 H	37	63.8	31.4
3	2483.50	57.5 PK	74.0	-16.5	1.13 H	296	26.0	31.5
4	2483.50	44.7 AV	54.0	-9.3	1.13 H	296	13.2	31.5
5	4924.00	47.3 PK	74.0	-26.7	1.72 H	157	46.7	0.6
6	4924.00	33.9 AV	54.0	-20.1	1.72 H	157	33.3	0.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	116.9 PK			1.73 V	124	85.5	31.4
2	*2462.00	106.1 AV			1.73 V	124	74.7	31.4
3	2483.50	67.2 PK	74.0	-6.8	2.21 V	332	35.7	31.5
4	2483.50	52.3 AV	54.0	-1.7	2.21 V	332	20.8	31.5
5	4924.00	51.4 PK	74.0	-22.6	1.97 V	216	50.8	0.6
6	4924.00	37.2 AV	54.0	-16.8	1.97 V	216	36.6	0.6

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.

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	52.9 PK	74.0	-21.1	1.66 H	226	21.9	31.0
2	2390.00	43.6 AV	54.0	-10.4	1.66 H	226	12.6	31.0
3	*2412.00	106.6 PK			1.56 H	296	75.4	31.2
4	*2412.00	96.0 AV			1.56 H	296	64.8	31.2
5	4824.00	46.6 PK	74.0	-27.4	2.13 H	208	46.1	0.5
6	4824.00	33.3 AV	54.0	-20.7	2.13 H	208	32.8	0.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.5 PK	74.0	-5.5	1.84 V	197	37.5	31.0
2	2390.00	52.7 AV	54.0	-1.3	1.84 V	197	21.7	31.0
3	*2412.00	116.8 PK			1.78 V	145	85.6	31.2
4	*2412.00	105.3 AV			1.78 V	145	74.1	31.2
5	4824.00	48.8 PK	74.0	-25.2	1.69 V	217	48.3	0.5
6	4824.00	34.7 AV	54.0	-19.3	1.69 V	217	34.2	0.5

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	109.5 PK			1.42 H	300	78.2	31.3
2	*2437.00	99.1 AV			1.42 H	300	67.8	31.3
3	4874.00	47.2 PK	74.0	-26.8	1.82 H	167	46.6	0.6
4	4874.00	33.9 AV	54.0	-20.1	1.82 H	167	33.3	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	119.2 PK			1.91 V	190	87.9	31.3
2	*2437.00	107.9 AV			1.91 V	190	76.6	31.3
3	4874.00	52.2 PK	74.0	-21.8	1.94 V	219	51.6	0.6
4	4874.00	37.4 AV	54.0	-16.6	1.94 V	219	36.8	0.6

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.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.0 PK			1.42 H	3	75.6	31.4
2	*2462.00	96.5 AV			1.42 H	3	65.1	31.4
3	2483.50	56.7 PK	74.0	-17.3	1.71 H	122	25.2	31.5
4	2483.50	44.2 AV	54.0	-9.8	1.71 H	122	12.7	31.5
5	4924.00	47.1 PK	74.0	-26.9	1.93 H	174	46.5	0.6
6	4924.00	33.9 AV	54.0	-20.1	1.93 H	174	33.3	0.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	116.4 PK			2.01 V	190	85.0	31.4
2	*2462.00	105.5 AV			2.01 V	190	74.1	31.4
3	2483.50	67.2 PK	74.0	-6.8	1.96 V	190	35.7	31.5
4	2483.50	52.4 AV	54.0	-1.6	1.96 V	190	20.9	31.5
5	4924.00	50.9 PK	74.0	-23.1	1.99 V	217	50.3	0.6
6	4924.00	37.1 AV	54.0	-16.9	1.99 V	217	36.5	0.6

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.

802.11n (HT40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.3 PK	74.0	-14.7	1.00 H	1	28.3	31.0
2	2390.00	46.6 AV	54.0	-7.4	1.00 H	1	15.6	31.0
3	*2422.00	100.0 PK			1.97 H	357	68.8	31.2
4	*2422.00	90.3 AV			1.97 H	357	59.1	31.2
5	4844.00	46.6 PK	74.0	-27.4	2.15 H	272	46.2	0.4
6	4844.00	33.0 AV	54.0	-21.0	2.15 H	272	32.6	0.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.2 PK	74.0	-6.8	2.15 V	133	36.2	31.0
2	<b>2390.00</b>	<b>52.9 AV</b>	<b>54.0</b>	<b>-1.1</b>	<b>2.15 V</b>	<b>133</b>	<b>21.9</b>	<b>31.0</b>
3	*2422.00	108.5 PK			2.22 V	150	77.3	31.2
4	*2422.00	99.4 AV			2.22 V	150	68.2	31.2
5	4844.00	46.0 PK	74.0	-28.0	2.21 V	149	45.6	0.4
6	4844.00	32.9 AV	54.0	-21.1	2.21 V	149	32.5	0.4

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.4 PK	74.0	-14.6	1.01 H	8	28.4	31.0
2	2390.00	46.3 AV	54.0	-7.7	1.01 H	8	15.3	31.0
3	*2437.00	103.4 PK			1.14 H	5	72.1	31.3
4	*2437.00	93.6 AV			1.14 H	5	62.3	31.3
5	4874.00	46.8 PK	74.0	-27.2	2.00 H	144	46.2	0.6
6	4874.00	33.5 AV	54.0	-20.5	2.00 H	144	32.9	0.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.8 PK	74.0	-7.2	2.32 V	173	35.8	31.0
2	2390.00	52.8 AV	54.0	-1.2	2.32 V	173	21.8	31.0
3	*2437.00	112.8 PK			2.39 V	8	81.5	31.3
4	*2437.00	103.5 AV			2.39 V	8	72.2	31.3
5	4874.00	48.3 PK	74.0	-25.7	2.02 V	49	47.7	0.6
6	4874.00	34.4 AV	54.0	-19.6	2.02 V	49	33.8	0.6

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.

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	102.8 PK			1.91 H	352	71.4	31.4
2	*2452.00	93.4 AV			1.91 H	352	62.0	31.4
3	2483.50	60.9 PK	74.0	-13.1	1.10 H	7	29.4	31.5
4	2483.50	46.1 AV	54.0	-7.9	1.10 H	7	14.6	31.5
5	4904.00	47.1 PK	74.0	-26.9	2.15 H	116	46.6	0.5
6	4904.00	33.4 AV	54.0	-20.6	2.15 H	116	32.9	0.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	113.7 PK			2.11 V	203	82.3	31.4
2	*2452.00	104.0 AV			2.11 V	203	72.6	31.4
3	2483.50	69.2 PK	74.0	-4.8	2.15 V	193	37.7	31.5
4	2483.50	52.7 AV	54.0	-1.3	2.15 V	193	21.2	31.5
5	4904.00	48.7 PK	74.0	-25.3	1.58 V	215	48.2	0.5
6	4904.00	36.0 AV	54.0	-18.0	1.58 V	215	35.5	0.5

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.

Test Mode E

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	56.1 PK	74.0	-17.9	1.43 H	313	25.1	31.0
2	2390.00	44.1 AV	54.0	-9.9	1.43 H	313	13.1	31.0
3	*2412.00	104.2 PK			1.40 H	22	73.0	31.2
4	*2412.00	101.8 AV			1.40 H	22	70.6	31.2
5	4824.00	50.3 PK	74.0	-23.7	3.78 H	213	49.8	0.5
6	4824.00	44.5 AV	54.0	-9.5	3.78 H	213	44.0	0.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.3 PK	74.0	-16.7	1.59 V	236	26.3	31.0
2	2390.00	47.7 AV	54.0	-6.3	1.59 V	236	16.7	31.0
3	*2412.00	116.4 PK			1.06 V	210	85.2	31.2
4	*2412.00	114.1 AV			1.06 V	210	82.9	31.2
5	4824.00	53.0 PK	74.0	-21.0	1.57 V	243	52.5	0.5
6	4824.00	49.1 AV	54.0	-4.9	1.57 V	243	48.6	0.5

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.



CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	106.6 PK			3.87 H	165	75.3	31.3
2	*2437.00	104.4 AV			3.87 H	165	73.1	31.3
3	4874.00	50.9 PK	74.0	-23.1	2.41 H	156	50.3	0.6
4	4874.00	45.3 AV	54.0	-8.7	2.41 H	156	44.7	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	118.7 PK			2.38 V	268	87.4	31.3
2	*2437.00	116.2 AV			2.38 V	268	84.9	31.3
3	4874.00	54.2 PK	74.0	-19.8	1.52 V	171	53.6	0.6
4	4874.00	50.2 AV	54.0	-3.8	1.52 V	171	49.6	0.6

**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.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	114.6 PK			2.42 H	218	83.2	31.4
2	*2462.00	112.3 AV			2.42 H	218	80.9	31.4
3	2483.50	58.1 PK	74.0	-15.9	2.75 H	229	26.6	31.5
4	2483.50	46.3 AV	54.0	-7.7	2.75 H	229	14.8	31.5
5	4924.00	50.7 PK	74.0	-23.3	1.00 H	248	50.1	0.6
6	4924.00	45.6 AV	54.0	-8.4	1.00 H	248	45.0	0.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	117.3 PK			1.69 V	206	85.9	31.4
2	*2462.00	114.9 AV			1.69 V	206	83.5	31.4
3	2483.50	59.1 PK	74.0	-14.9	2.47 V	320	27.6	31.5
4	2483.50	49.9 AV	54.0	-4.1	2.47 V	320	18.4	31.5
5	4924.00	55.5 PK	74.0	-18.5	2.41 V	167	54.9	0.6
6	4924.00	52.5 AV	54.0	-1.5	2.41 V	167	51.9	0.6

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.

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.2 PK	74.0	-11.8	2.53 H	230	31.2	31.0
2	2390.00	49.9 AV	54.0	-4.1	2.53 H	230	18.9	31.0
3	*2412.00	112.0 PK			1.93 H	222	80.8	31.2
4	*2412.00	102.1 AV			1.93 H	222	70.9	31.2
5	4824.00	46.0 PK	74.0	-28.0	1.33 H	322	45.5	0.5
6	4824.00	33.1 AV	54.0	-20.9	1.33 H	322	32.6	0.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.9 PK	74.0	-8.1	1.93 V	290	34.9	31.0
2	2390.00	52.3 AV	54.0	-1.7	1.93 V	290	21.3	31.0
3	*2412.00	116.2 PK			2.18 V	291	85.0	31.2
4	*2412.00	106.1 AV			2.18 V	291	74.9	31.2
5	4824.00	49.0 PK	74.0	-25.0	1.90 V	176	48.5	0.5
6	4824.00	34.4 AV	54.0	-19.6	1.90 V	176	33.9	0.5

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	115.6 PK			1.95 H	231	84.3	31.3
2	*2437.00	105.4 AV			1.95 H	231	74.1	31.3
3	4874.00	48.0 PK	74.0	-26.0	1.88 H	180	47.4	0.6
4	4874.00	34.2 AV	54.0	-19.8	1.88 H	180	33.6	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	119.2 PK			1.10 V	261	87.9	31.3
2	*2437.00	108.8 AV			1.10 V	261	77.5	31.3
3	4874.00	53.6 PK	74.0	-20.4	2.17 V	131	53.0	0.6
4	4874.00	38.8 AV	54.0	-15.2	2.17 V	131	38.2	0.6

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.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	112.9 PK			1.32 H	232	81.5	31.4
2	*2462.00	102.6 AV			1.32 H	232	71.2	31.4
3	2483.50	63.0 PK	74.0	-11.0	1.24 H	229	31.5	31.5
4	2483.50	48.5 AV	54.0	-5.5	1.24 H	229	17.0	31.5
5	4924.00	47.9 PK	74.0	-26.1	1.35 H	236	47.3	0.6
6	4924.00	33.7 AV	54.0	-20.3	1.35 H	236	33.1	0.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	117.3 PK			1.68 V	320	85.9	31.4
2	*2462.00	106.6 AV			1.68 V	320	75.2	31.4
3	2483.50	66.0 PK	74.0	-8.0	1.92 V	312	34.5	31.5
4	2483.50	52.4 AV	54.0	-1.6	1.92 V	312	20.9	31.5
5	4924.00	51.8 PK	74.0	-22.2	2.48 V	131	51.2	0.6
6	4924.00	37.6 AV	54.0	-16.4	2.48 V	131	37.0	0.6

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.

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.6 PK	74.0	-18.4	2.57 H	234	24.6	31.0
2	2390.00	43.9 AV	54.0	-10.1	2.57 H	234	12.9	31.0
3	*2412.00	104.0 PK			2.00 H	176	72.8	31.2
4	*2412.00	93.1 AV			2.00 H	176	61.9	31.2
5	4824.00	46.6 PK	74.0	-27.4	1.77 H	268	46.1	0.5
6	4824.00	32.4 AV	54.0	-21.6	1.77 H	268	31.9	0.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.1 PK	74.0	-4.9	1.96 V	324	38.1	31.0
2	2390.00	52.4 AV	54.0	-1.6	1.96 V	324	21.4	31.0
3	*2412.00	114.7 PK			1.65 V	180	83.5	31.2
4	*2412.00	103.8 AV			1.65 V	180	72.6	31.2
5	4824.00	49.1 PK	74.0	-24.9	1.95 V	177	48.6	0.5
6	4824.00	34.5 AV	54.0	-19.5	1.95 V	177	34.0	0.5

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	105.1 PK			1.21 H	7	73.8	31.3
2	*2437.00	94.6 AV			1.21 H	7	63.3	31.3
3	4874.00	46.5 PK	74.0	-27.5	1.34 H	149	45.9	0.6
4	4874.00	34.0 AV	54.0	-20.0	1.34 H	149	33.4	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	118.4 PK			1.96 V	318	87.1	31.3
2	*2437.00	107.8 AV			1.96 V	318	76.5	31.3
3	4874.00	50.0 PK	74.0	-24.0	1.40 V	287	49.4	0.6
4	4874.00	36.7 AV	54.0	-17.3	1.40 V	287	36.1	0.6

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.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	103.9 PK			2.62 H	346	72.5	31.4
2	*2462.00	93.3 AV			2.62 H	346	61.9	31.4
3	2483.50	56.2 PK	74.0	-17.8	1.73 H	34	24.7	31.5
4	2483.50	44.2 AV	54.0	-9.8	1.73 H	34	12.7	31.5
5	4924.00	46.2 PK	74.0	-27.8	1.53 H	318	45.6	0.6
6	4924.00	33.1 AV	54.0	-20.9	1.53 H	318	32.5	0.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	115.6 PK			1.30 V	213	84.2	31.4
2	*2462.00	105.0 AV			1.30 V	213	73.6	31.4
3	2483.50	66.8 PK	74.0	-7.2	2.47 V	313	35.3	31.5
4	2483.50	52.3 AV	54.0	-1.7	2.47 V	313	20.8	31.5
5	4924.00	48.8 PK	74.0	-25.2	2.41 V	171	48.2	0.6
6	4924.00	35.0 AV	54.0	-19.0	2.41 V	171	34.4	0.6

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.



802.11n (HT40)

CHANNEL	TX Channel 3	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.1 PK	74.0	-18.9	1.36 H	140	24.1	31.0
2	2390.00	44.1 AV	54.0	-9.9	1.36 H	140	13.1	31.0
3	*2422.00	97.7 PK			2.78 H	177	66.5	31.2
4	*2422.00	88.3 AV			2.78 H	177	57.1	31.2
5	4844.00	46.0 PK	74.0	-28.0	2.34 H	312	45.6	0.4
6	4844.00	32.4 AV	54.0	-21.6	2.34 H	312	32.0	0.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.8 PK	74.0	-8.2	1.70 V	218	34.8	31.0
2	2390.00	52.3 AV	54.0	-1.7	1.70 V	218	21.3	31.0
3	*2422.00	109.1 PK			1.73 V	318	77.9	31.2
4	*2422.00	99.8 AV			1.73 V	318	68.6	31.2
5	4844.00	46.5 PK	74.0	-27.5	1.93 V	281	46.1	0.4
6	4844.00	32.6 AV	54.0	-21.4	1.93 V	281	32.2	0.4

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.1 PK	74.0	-16.9	1.80 H	171	26.1	31.0
2	2390.00	45.0 AV	54.0	-9.0	1.80 H	171	14.0	31.0
3	*2437.00	99.4 PK			1.47 H	254	68.1	31.3
4	*2437.00	89.8 AV			1.47 H	254	58.5	31.3
5	2483.50	56.2 PK	74.0	-17.8	1.45 H	253	24.7	31.5
6	2483.50	44.1 AV	54.0	-9.9	1.45 H	253	12.6	31.5
7	4874.00	45.7 PK	74.0	-28.3	1.93 H	232	45.1	0.6
8	4874.00	32.8 AV	54.0	-21.2	1.93 H	232	32.2	0.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.2 PK	74.0	-9.8	1.67 V	217	33.2	31.0
2	2390.00	51.9 AV	54.0	-2.1	1.67 V	217	20.9	31.0
3	*2437.00	112.9 PK			1.94 V	303	81.6	31.3
4	*2437.00	103.0 AV			1.94 V	303	71.7	31.3
5	2483.50	67.4 PK	74.0	-6.6	1.89 V	212	35.9	31.5
6	2483.50	52.4 AV	54.0	-1.6	1.89 V	212	20.9	31.5
7	4874.00	48.1 PK	74.0	-25.9	1.60 V	293	47.5	0.6
8	4874.00	34.5 AV	54.0	-19.5	1.60 V	293	33.9	0.6

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.

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	101.3 PK			1.73 H	173	69.9	31.4
2	*2452.00	91.7 AV			1.73 H	173	60.3	31.4
3	2483.50	57.7 PK	74.0	-16.3	1.91 H	174	26.2	31.5
4	2483.50	44.6 AV	54.0	-9.4	1.91 H	174	13.1	31.5
5	4904.00	46.9 PK	74.0	-27.1	1.98 H	216	46.4	0.5
6	4904.00	32.6 AV	54.0	-21.4	1.98 H	216	32.1	0.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	111.9 PK			1.79 V	292	80.5	31.4
2	*2452.00	102.1 AV			1.79 V	292	70.7	31.4
3	2483.50	67.7 PK	74.0	-6.3	1.80 V	292	36.2	31.5
4	2483.50	52.3 AV	54.0	-1.7	1.80 V	292	20.8	31.5
5	4904.00	47.0 PK	74.0	-27.0	1.84 V	175	46.5	0.5
6	4904.00	33.9 AV	54.0	-20.1	1.84 V	175	33.4	0.5

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.

Test Mode G

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.3 PK	74.0	-16.7	1.45 H	1	26.3	31.0
2	2390.00	48.9 AV	54.0	-5.1	1.45 H	1	17.9	31.0
3	*2412.00	115.4 PK			1.41 H	360	84.2	31.2
4	*2412.00	113.2 AV			1.41 H	360	82.0	31.2
5	4824.00	52.0 PK	74.0	-22.0	1.03 H	1	51.5	0.5
6	4824.00	47.6 AV	54.0	-6.4	1.03 H	1	47.1	0.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.1 PK	74.0	-16.9	2.22 V	118	26.1	31.0
2	2390.00	45.0 AV	54.0	-9.0	2.22 V	118	14.0	31.0
3	*2412.00	115.4 PK			1.40 V	349	84.2	31.2
4	*2412.00	113.1 AV			1.40 V	349	81.9	31.2
5	4824.00	52.1 PK	74.0	-21.9	3.22 V	334	51.6	0.5
6	4824.00	47.6 AV	54.0	-6.4	3.22 V	334	47.1	0.5

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.3 PK			1.32 H	359	83.0	31.3
2	*2437.00	112.2 AV			1.32 H	359	80.9	31.3
3	4874.00	52.2 PK	74.0	-21.8	1.21 H	360	51.6	0.6
4	4874.00	48.0 AV	54.0	-6.0	1.21 H	360	47.4	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.7 PK			2.19 V	9	83.4	31.3
2	*2437.00	112.5 AV			2.19 V	9	81.2	31.3
3	4874.00	52.2 PK	74.0	-21.8	1.22 V	305	51.6	0.6
4	4874.00	48.1 AV	54.0	-5.9	1.22 V	305	47.5	0.6

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.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	114.6 PK			1.20 H	356	83.2	31.4
2	*2462.00	112.4 AV			1.20 H	356	81.0	31.4
3	2483.50	58.2 PK	74.0	-15.8	1.32 H	358	26.7	31.5
4	2483.50	47.8 AV	54.0	-6.2	1.32 H	358	16.3	31.5
5	4924.00	53.7 PK	74.0	-20.3	1.25 H	8	53.1	0.6
6	4924.00	49.6 AV	54.0	-4.4	1.25 H	8	49.0	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	114.8 PK			1.23 V	0	83.4	31.4
2	*2462.00	112.6 AV			1.23 V	0	81.2	31.4
3	2483.50	59.4 PK	74.0	-14.6	1.88 V	354	27.9	31.5
4	2483.50	50.3 AV	54.0	-3.7	1.88 V	354	18.8	31.5
5	4924.00	52.1 PK	74.0	-21.9	1.26 V	306	51.5	0.6
6	4924.00	47.2 AV	54.0	-6.8	1.26 V	306	46.6	0.6

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.

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	57.7 PK	74.0	-16.3	1.71 H	2	26.9	30.8
2	2352.00	52.2 AV	54.0	-1.8	1.71 H	2	21.4	30.8
3	2390.00	56.3 PK	74.0	-17.7	1.19 H	217	25.3	31.0
4	2390.00	44.6 AV	54.0	-9.4	1.19 H	217	13.6	31.0
5	*2412.00	107.8 PK			2.04 H	0	76.6	31.2
6	*2412.00	97.6 AV			2.04 H	0	66.4	31.2
7	4824.00	46.1 PK	74.0	-27.9	2.22 H	112	45.6	0.5
8	4824.00	32.7 AV	54.0	-21.3	2.22 H	112	32.2	0.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	53.6 PK	74.0	-20.4	1.43 V	2	22.8	30.8
2	2352.00	43.9 AV	54.0	-10.1	1.43 V	2	13.1	30.8
3	2390.00	61.5 PK	74.0	-12.5	1.46 V	352	30.5	31.0
4	2390.00	45.5 AV	54.0	-8.5	1.46 V	352	14.5	31.0
5	*2412.00	108.1 PK			1.22 V	347	76.9	31.2
6	*2412.00	97.3 AV			1.22 V	347	66.1	31.2
7	4824.00	46.9 PK	74.0	-27.1	1.90 V	344	46.4	0.5
8	4824.00	33.4 AV	54.0	-20.6	1.90 V	344	32.9	0.5

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	59.2 PK	74.0	-14.8	1.70 H	0	28.4	30.8
2	2352.00	51.7 AV	54.0	-2.3	1.70 H	0	20.9	30.8
3	*2437.00	117.0 PK			1.58 H	353	85.7	31.3
4	*2437.00	106.7 AV			1.58 H	353	75.4	31.3
5	4874.00	51.0 PK	74.0	-23.0	1.04 H	353	50.4	0.6
6	4874.00	37.5 AV	54.0	-16.5	1.04 H	353	36.9	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	56.5 PK	74.0	-17.5	1.28 V	337	25.7	30.8
2	2352.00	44.4 AV	54.0	-9.6	1.28 V	337	13.6	30.8
3	*2437.00	117.8 PK			1.30 V	5	86.5	31.3
4	*2437.00	106.9 AV			1.30 V	5	75.6	31.3
5	4874.00	49.2 PK	74.0	-24.8	1.32 V	35	48.6	0.6
6	4874.00	36.1 AV	54.0	-17.9	1.32 V	35	35.5	0.6

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.



CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	59.2 PK	74.0	-14.8	1.36 H	354	28.4	30.8
2	2352.00	51.1 AV	54.0	-2.9	1.36 H	354	20.3	30.8
3	*2462.00	115.1 PK			1.58 H	351	83.7	31.4
4	*2462.00	104.7 AV			1.58 H	351	73.3	31.4
5	2483.50	65.3 PK	74.0	-8.7	1.66 H	347	33.8	31.5
6	2483.50	50.8 AV	54.0	-3.2	1.66 H	347	19.3	31.5
7	4924.00	49.8 PK	74.0	-24.2	1.73 H	7	49.2	0.6
8	4924.00	36.8 AV	54.0	-17.2	1.73 H	7	36.2	0.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	55.7 PK	74.0	-18.3	1.54 V	18	24.9	30.8
2	2352.00	44.0 AV	54.0	-10.0	1.54 V	18	13.2	30.8
3	*2462.00	116.0 PK			1.23 V	6	84.6	31.4
4	*2462.00	104.8 AV			1.23 V	6	73.4	31.4
5	2483.50	65.8 PK	74.0	-8.2	1.90 V	343	34.3	31.5
6	2483.50	52.3 AV	54.0	-1.7	1.90 V	343	20.8	31.5
7	4924.00	49.5 PK	74.0	-24.5	1.44 V	113	48.9	0.6
8	4924.00	35.1 AV	54.0	-18.9	1.44 V	113	34.5	0.6

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.

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	56.5 PK	74.0	-17.5	1.46 H	2	25.7	30.8
2	2352.00	52.3 AV	54.0	-1.7	1.46 H	2	21.5	30.8
3	2390.00	57.9 PK	74.0	-16.1	1.77 H	11	26.9	31.0
4	2390.00	44.8 AV	54.0	-9.2	1.77 H	11	13.8	31.0
5	*2412.00	108.0 PK			1.43 H	356	76.8	31.2
6	*2412.00	97.2 AV			1.43 H	356	66.0	31.2
7	4824.00	45.4 PK	74.0	-28.6	2.06 H	261	44.9	0.5
8	4824.00	32.3 AV	54.0	-21.7	2.06 H	261	31.8	0.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	55.0 PK	74.0	-19.0	1.84 V	5	24.2	30.8
2	2352.00	43.6 AV	54.0	-10.4	1.84 V	5	12.8	30.8
3	2390.00	62.2 PK	74.0	-11.8	1.74 V	348	31.2	31.0
4	2390.00	47.4 AV	54.0	-6.6	1.74 V	348	16.4	31.0
5	*2412.00	108.3 PK			1.68 V	347	77.1	31.2
6	*2412.00	97.6 AV			1.68 V	347	66.4	31.2
7	4824.00	47.8 PK	74.0	-26.2	1.80 V	10	47.3	0.5
8	4824.00	32.8 AV	54.0	-21.2	1.80 V	10	32.3	0.5

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	60.1 PK	74.0	-13.9	1.72 H	353	29.3	30.8
2	2352.00	51.1 AV	54.0	-2.9	1.72 H	353	20.3	30.8
3	*2437.00	116.6 PK			1.43 H	352	85.3	31.3
4	*2437.00	105.9 AV			1.43 H	352	74.6	31.3
5	4874.00	51.6 PK	74.0	-22.4	1.61 H	0	51.0	0.6
6	4874.00	37.0 AV	54.0	-17.0	1.61 H	0	36.4	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	56.1 PK	74.0	-17.9	1.13 V	357	25.3	30.8
2	2352.00	44.4 AV	54.0	-9.6	1.13 V	357	13.6	30.8
3	*2437.00	117.6 PK			1.51 V	358	86.3	31.3
4	*2437.00	106.5 AV			1.51 V	358	75.2	31.3
5	4874.00	49.6 PK	74.0	-24.4	1.64 V	306	49.0	0.6
6	4874.00	35.2 AV	54.0	-18.8	1.64 V	306	34.6	0.6

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.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	59.1 PK	74.0	-14.9	1.44 H	351	28.3	30.8
2	2352.00	51.0 AV	54.0	-3.0	1.44 H	351	20.2	30.8
3	*2462.00	114.4 PK			1.70 H	356	83.0	31.4
4	*2462.00	103.4 AV			1.70 H	356	72.0	31.4
5	2483.50	65.5 PK	74.0	-8.5	1.91 H	344	34.0	31.5
6	2483.50	50.7 AV	54.0	-3.3	1.91 H	344	19.2	31.5
7	4924.00	50.1 PK	74.0	-23.9	1.49 H	351	49.5	0.6
8	4924.00	35.9 AV	54.0	-18.1	1.49 H	351	35.3	0.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	55.0 PK	74.0	-19.0	1.28 V	339	24.2	30.8
2	2352.00	43.4 AV	54.0	-10.6	1.28 V	339	12.6	30.8
3	*2462.00	115.0 PK			1.32 V	347	83.6	31.4
4	*2462.00	104.6 AV			1.32 V	347	73.2	31.4
5	2483.50	66.8 PK	74.0	-7.2	1.89 V	346	35.3	31.5
6	2483.50	52.3 AV	54.0	-1.7	1.89 V	346	20.8	31.5
7	4924.00	49.5 PK	74.0	-24.5	1.29 V	110	48.9	0.6
8	4924.00	35.8 AV	54.0	-18.2	1.29 V	110	35.2	0.6

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.

802.11n (HT40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	59.7 PK	74.0	-14.3	1.83 H	351	28.9	30.8
2	2352.00	52.6 AV	54.0	-1.4	1.83 H	351	21.8	30.8
3	2390.00	65.2 PK	74.0	-8.8	1.63 H	349	34.2	31.0
4	2390.00	51.3 AV	54.0	-2.7	1.63 H	349	20.3	31.0
5	*2422.00	107.2 PK			1.59 H	352	76.0	31.2
6	*2422.00	97.5 AV			1.59 H	352	66.3	31.2
7	4844.00	45.6 PK	74.0	-28.4	1.25 H	144	45.2	0.4
8	4844.00	32.7 AV	54.0	-21.3	1.25 H	144	32.3	0.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	55.7 PK	74.0	-18.3	1.24 V	358	24.9	30.8
2	2352.00	44.7 AV	54.0	-9.3	1.24 V	358	13.9	30.8
3	2390.00	65.9 PK	74.0	-8.1	1.46 V	349	34.9	31.0
4	2390.00	51.6 AV	54.0	-2.4	1.46 V	349	20.6	31.0
5	*2422.00	107.7 PK			1.92 V	349	76.5	31.2
6	*2422.00	98.2 AV			1.92 V	349	67.0	31.2
7	4844.00	45.9 PK	74.0	-28.1	1.44 V	121	45.5	0.4
8	4844.00	32.4 AV	54.0	-21.6	1.44 V	121	32.0	0.4

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	61.1 PK	74.0	-12.9	1.85 H	353	30.3	30.8
2	2352.00	52.1 AV	54.0	-1.9	1.85 H	353	21.3	30.8
3	2390.00	67.3 PK	74.0	-6.7	1.61 H	344	36.3	31.0
4	2390.00	52.6 AV	54.0	-1.4	1.61 H	344	21.6	31.0
5	*2437.00	111.1 PK			1.92 H	354	79.8	31.3
6	*2437.00	101.7 AV			1.92 H	354	70.4	31.3
7	4874.00	47.5 PK	74.0	-26.5	1.45 H	339	46.9	0.6
8	4874.00	34.9 AV	54.0	-19.1	1.45 H	339	34.3	0.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	55.2 PK	74.0	-18.8	1.31 V	355	24.4	30.8
2	2352.00	43.9 AV	54.0	-10.1	1.31 V	355	13.1	30.8
3	2390.00	65.7 PK	74.0	-8.3	1.47 V	347	34.7	31.0
4	2390.00	51.8 AV	54.0	-2.2	1.47 V	347	20.8	31.0
5	*2437.00	111.4 PK			1.54 V	351	80.1	31.3
6	*2437.00	101.6 AV			1.54 V	351	70.3	31.3
7	4874.00	47.1 PK	74.0	-26.9	1.11 V	89	46.5	0.6
8	4874.00	34.2 AV	54.0	-19.8	1.11 V	89	33.6	0.6

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.

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	59.1 PK	74.0	-14.9	1.39 H	352	28.3	30.8
2	2352.00	50.1 AV	54.0	-3.9	1.39 H	352	19.3	30.8
3	*2452.00	110.2 PK			1.42 H	354	78.8	31.4
4	*2452.00	100.8 AV			1.42 H	354	69.4	31.4
5	2483.50	63.1 PK	74.0	-10.9	1.58 H	349	31.6	31.5
6	2483.50	50.2 AV	54.0	-3.8	1.58 H	349	18.7	31.5
7	4904.00	47.2 PK	74.0	-26.8	1.28 H	344	46.7	0.5
8	4904.00	35.0 AV	54.0	-19.0	1.28 H	344	34.5	0.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	56.0 PK	74.0	-18.0	1.29 V	347	25.2	30.8
2	2352.00	44.6 AV	54.0	-9.4	1.29 V	347	13.8	30.8
3	*2452.00	110.7 PK			1.23 V	3	79.3	31.4
4	*2452.00	101.0 AV			1.23 V	3	69.6	31.4
5	2483.50	67.1 PK	74.0	-6.9	1.89 V	345	35.6	31.5
6	2483.50	52.3 AV	54.0	-1.7	1.89 V	345	20.8	31.5
7	4904.00	47.2 PK	74.0	-26.8	1.10 V	114	46.7	0.5
8	4904.00	33.9 AV	54.0	-20.1	1.10 V	114	33.4	0.5

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.

Test Mode I

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.9 PK	74.0	-15.1	1.00 H	3	27.9	31.0
2	2390.00	48.4 AV	54.0	-5.6	1.00 H	3	17.4	31.0
3	*2412.00	121.3 PK			1.83 H	358	90.1	31.2
4	*2412.00	119.1 AV			1.83 H	358	87.9	31.2
5	4824.00	54.5 PK	74.0	-19.5	1.00 H	2	54.0	0.5
6	4824.00	52.0 AV	54.0	-2.0	1.00 H	2	51.5	0.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.3 PK	74.0	-18.7	1.33 V	162	24.3	31.0
2	2390.00	43.8 AV	54.0	-10.2	1.33 V	162	12.8	31.0
3	*2412.00	105.9 PK			3.04 V	24	74.7	31.2
4	*2412.00	98.5 AV			3.04 V	24	67.3	31.2
5	4824.00	54.9 PK	74.0	-19.1	1.57 V	131	54.4	0.5
6	4824.00	51.5 AV	54.0	-2.5	1.57 V	131	51.0	0.5

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.



CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	121.6 PK			1.53 H	350	90.3	31.3
2	*2437.00	119.2 AV			1.53 H	350	87.9	31.3
3	4874.00	55.5 PK	74.0	-18.5	1.13 H	14	54.9	0.6
4	4874.00	52.6 AV	54.0	-1.4	1.13 H	14	52.0	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	106.4 PK			1.28 V	283	75.1	31.3
2	*2437.00	104.1 AV			1.28 V	283	72.8	31.3
3	4874.00	52.9 PK	74.0	-21.1	1.00 V	130	52.3	0.6
4	4874.00	48.7 AV	54.0	-5.3	1.00 V	130	48.1	0.6

**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.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	121.3 PK			1.35 H	360	89.9	31.4
2	*2462.00	118.8 AV			1.35 H	360	87.4	31.4
3	2483.50	61.1 PK	74.0	-12.9	1.83 H	2	29.6	31.5
4	2483.50	51.6 AV	54.0	-2.4	1.83 H	2	20.1	31.5
5	4924.00	55.2 PK	74.0	-18.8	1.11 H	15	54.6	0.6
6	4924.00	52.4 AV	54.0	-1.6	1.11 H	15	51.8	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	103.6 PK			2.02 V	22	72.2	31.4
2	*2462.00	101.3 AV			2.02 V	22	69.9	31.4
3	2483.50	56.4 PK	74.0	-17.6	1.23 V	265	24.9	31.5
4	2483.50	44.6 AV	54.0	-9.4	1.23 V	265	13.1	31.5
5	4924.00	51.8 PK	74.0	-22.2	2.59 V	208	51.2	0.6
6	4924.00	47.0 AV	54.0	-7.0	2.59 V	208	46.4	0.6

**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.

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CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.7 PK	74.0	-13.3	1.62 H	349	29.7	31.0
2	2390.00	52.4 AV	54.0	-1.6	1.62 H	349	21.4	31.0
3	*2412.00	114.8 PK			1.58 H	351	83.6	31.2
4	*2412.00	104.1 AV			1.58 H	351	72.9	31.2
5	4824.00	45.4 PK	74.0	-28.6	1.40 H	223	44.9	0.5
6	4824.00	32.1 AV	54.0	-21.9	1.40 H	223	31.6	0.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.7 PK	74.0	-18.3	1.48 V	336	24.7	31.0
2	2390.00	44.1 AV	54.0	-9.9	1.48 V	336	13.1	31.0
3	*2412.00	103.2 PK			3.79 V	233	72.0	31.2
4	*2412.00	92.9 AV			3.79 V	233	61.7	31.2
5	4824.00	44.7 PK	74.0	-29.3	2.88 V	339	44.2	0.5
6	4824.00	31.6 AV	54.0	-22.4	2.88 V	339	31.1	0.5

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.5 PK	74.0	-13.5	1.67 H	355	29.5	31.0
2	2390.00	52.4 AV	54.0	-1.6	1.67 H	355	21.4	31.0
3	*2437.00	123.1 PK			1.63 H	351	91.8	31.3
4	*2437.00	112.9 AV			1.63 H	351	81.6	31.3
5	4874.00	53.1 PK	74.0	-20.9	1.53 H	3	52.5	0.6
6	4874.00	39.3 AV	54.0	-14.7	1.53 H	3	38.7	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.5 PK	74.0	-18.5	2.26 V	314	24.5	31.0
2	2390.00	44.2 AV	54.0	-9.8	2.26 V	314	13.2	31.0
3	*2437.00	112.5 PK			3.62 V	290	81.2	31.3
4	*2437.00	102.0 AV			3.62 V	290	70.7	31.3
5	4874.00	50.2 PK	74.0	-23.8	2.50 V	206	49.6	0.6
6	4874.00	36.9 AV	54.0	-17.1	2.50 V	206	36.3	0.6

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.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	119.6 PK			1.92 H	348	88.2	31.4
2	*2462.00	109.2 AV			1.92 H	348	77.8	31.4
3	2483.50	65.3 PK	74.0	-8.7	1.26 H	1	33.8	31.5
4	2483.50	52.5 AV	54.0	-1.5	1.26 H	1	21.0	31.5
5	4924.00	52.6 PK	74.0	-21.4	1.60 H	3	52.0	0.6
6	4924.00	38.6 AV	54.0	-15.4	1.60 H	3	38.0	0.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.9 PK			2.79 V	78	75.5	31.4
2	*2462.00	96.3 AV			2.79 V	78	64.9	31.4
3	2483.50	56.3 PK	74.0	-17.7	2.78 V	315	24.8	31.5
4	2483.50	44.9 AV	54.0	-9.1	2.78 V	315	13.4	31.5
5	4924.00	47.4 PK	74.0	-26.6	2.49 V	194	46.8	0.6
6	4924.00	33.8 AV	54.0	-20.2	2.49 V	194	33.2	0.6

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.

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CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.9 PK	74.0	-11.1	1.66 H	356	31.9	31.0
2	2390.00	52.4 AV	54.0	-1.6	1.66 H	356	21.4	31.0
3	*2412.00	114.0 PK			1.83 H	354	82.8	31.2
4	*2412.00	103.7 AV			1.83 H	354	72.5	31.2
5	4824.00	45.4 PK	74.0	-28.6	1.95 H	228	44.9	0.5
6	4824.00	31.8 AV	54.0	-22.2	1.95 H	228	31.3	0.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.7 PK	74.0	-18.3	2.89 V	231	24.7	31.0
2	2390.00	44.0 AV	54.0	-10.0	2.89 V	231	13.0	31.0
3	*2412.00	100.8 PK			3.19 V	68	69.6	31.2
4	*2412.00	90.4 AV			3.19 V	68	59.2	31.2
5	4824.00	45.3 PK	74.0	-28.7	1.33 V	293	44.8	0.5
6	4824.00	31.7 AV	54.0	-22.3	1.33 V	293	31.2	0.5

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.8 PK	74.0	-13.2	1.22 H	356	29.8	31.0
2	2390.00	52.1 AV	54.0	-1.9	1.22 H	356	21.1	31.0
3	*2437.00	123.2 PK			1.60 H	356	91.9	31.3
4	*2437.00	113.0 AV			1.60 H	356	81.7	31.3
5	4874.00	53.5 PK	74.0	-20.5	1.00 H	3	52.9	0.6
6	4874.00	39.6 AV	54.0	-14.4	1.00 H	3	39.0	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.5 PK	74.0	-18.5	1.62 V	337	24.5	31.0
2	2390.00	44.2 AV	54.0	-9.8	1.62 V	337	13.2	31.0
3	*2437.00	110.0 PK			3.46 V	316	78.7	31.3
4	*2437.00	99.5 AV			3.46 V	316	68.2	31.3
5	4874.00	51.2 PK	74.0	-22.8	1.19 V	134	50.6	0.6
6	4874.00	36.9 AV	54.0	-17.1	1.19 V	134	36.3	0.6

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.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	118.7 PK			1.34 H	356	87.3	31.4
2	*2462.00	108.1 AV			1.34 H	356	76.7	31.4
3	2483.50	65.5 PK	74.0	-8.5	1.55 H	360	34.0	31.5
4	2483.50	52.6 AV	54.0	-1.4	1.55 H	360	21.1	31.5
5	4924.00	50.8 PK	74.0	-23.2	1.15 H	3	50.2	0.6
6	4924.00	36.8 AV	54.0	-17.2	1.15 H	3	36.2	0.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.1 PK			3.89 V	307	75.7	31.4
2	*2462.00	95.8 AV			3.89 V	307	64.4	31.4
3	2483.50	56.4 PK	74.0	-17.6	1.83 V	222	24.9	31.5
4	2483.50	44.6 AV	54.0	-9.4	1.83 V	222	13.1	31.5
5	4924.00	45.1 PK	74.0	-28.9	2.85 V	293	44.5	0.6
6	4924.00	32.1 AV	54.0	-21.9	2.85 V	293	31.5	0.6

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.



802.11n (HT40)

CHANNEL	TX Channel 3	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.6 PK	74.0	-11.4	1.66 H	355	31.6	31.0
2	2390.00	52.3 AV	54.0	-1.7	1.66 H	355	21.3	31.0
3	*2422.00	110.5 PK			1.38 H	354	79.3	31.2
4	*2422.00	100.8 AV			1.38 H	354	69.6	31.2
5	4844.00	45.8 PK	74.0	-28.2	1.19 H	315	45.4	0.4
6	4844.00	31.9 AV	54.0	-22.1	1.19 H	315	31.5	0.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.9 PK	74.0	-18.1	2.19 V	47	24.9	31.0
2	2390.00	44.1 AV	54.0	-9.9	2.19 V	47	13.1	31.0
3	*2422.00	96.4 PK			2.88 V	75	65.2	31.2
4	*2422.00	86.9 AV			2.88 V	75	55.7	31.2
5	4844.00	45.0 PK	74.0	-29.0	2.12 V	331	44.6	0.4
6	4844.00	31.6 AV	54.0	-22.4	2.12 V	331	31.2	0.4

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.5 PK	74.0	-10.5	1.23 H	355	32.5	31.0
2	<b>2390.00</b>	<b>52.9 AV</b>	<b>54.0</b>	<b>-1.1</b>	<b>1.23 H</b>	<b>355</b>	<b>21.9</b>	<b>31.0</b>
3	*2437.00	114.8 PK			1.55 H	355	83.5	31.3
4	*2437.00	105.0 AV			1.55 H	355	73.7	31.3
5	4874.00	46.4 PK	74.0	-27.6	1.25 H	313	45.8	0.6
6	4874.00	32.7 AV	54.0	-21.3	1.25 H	313	32.1	0.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.6 PK	74.0	-18.4	1.93 V	297	24.6	31.0
2	2390.00	43.9 AV	54.0	-10.1	1.93 V	297	12.9	31.0
3	*2437.00	101.4 PK			3.12 V	78	70.1	31.3
4	*2437.00	92.0 AV			3.12 V	78	60.7	31.3
5	4874.00	44.8 PK	74.0	-29.2	1.82 V	243	44.2	0.6
6	4874.00	32.0 AV	54.0	-22.0	1.82 V	243	31.4	0.6

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.

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	111.8 PK			1.57 H	353	80.4	31.4
2	*2452.00	102.1 AV			1.57 H	353	70.7	31.4
3	2483.50	65.4 PK	74.0	-8.6	1.32 H	348	33.9	31.5
4	2483.50	52.8 AV	54.0	-1.2	1.32 H	348	21.3	31.5
5	4904.00	44.4 PK	74.0	-29.6	1.43 H	331	43.9	0.5
6	4904.00	32.3 AV	54.0	-21.7	1.43 H	331	31.8	0.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	98.6 PK			3.45 V	51	67.2	31.4
2	*2452.00	89.1 AV			3.45 V	51	57.7	31.4
3	2483.50	56.7 PK	74.0	-17.3	2.22 V	331	25.2	31.5
4	2483.50	44.7 AV	54.0	-9.3	2.22 V	331	13.2	31.5
5	4904.00	44.7 PK	74.0	-29.3	1.32 V	215	44.2	0.5
6	4904.00	31.4 AV	54.0	-22.6	1.32 V	215	30.9	0.5

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.

Test Mode K

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	56.9 PK	74.0	-17.1	1.02 H	284	25.9	31.0
2	2390.00	46.0 AV	54.0	-8.0	1.02 H	284	15.0	31.0
3	*2412.00	113.4 PK			1.10 H	282	82.2	31.2
4	*2412.00	111.5 AV			1.10 H	282	80.3	31.2
5	4824.00	50.2 PK	74.0	-23.8	2.18 H	182	49.7	0.5
6	4824.00	44.4 AV	54.0	-9.6	2.18 H	182	43.9	0.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	56.4 PK	74.0	-17.6	3.68 V	315	25.4	31.0
2	2390.00	45.1 AV	54.0	-8.9	3.68 V	315	14.1	31.0
3	*2412.00	113.6 PK			3.95 V	315	82.4	31.2
4	*2412.00	111.4 AV			3.95 V	315	80.2	31.2
5	4824.00	50.0 PK	74.0	-24.0	3.87 V	23	49.5	0.5
6	4824.00	44.8 AV	54.0	-9.2	3.87 V	23	44.3	0.5

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	113.0 PK			1.00 H	282	81.7	31.3
2	*2437.00	110.9 AV			1.00 H	282	79.6	31.3
3	4874.00	52.4 PK	74.0	-21.6	1.36 H	154	51.8	0.6
4	4874.00	49.4 AV	54.0	-4.6	1.36 H	154	48.8	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	112.9 PK			4.00 V	336	81.6	31.3
2	*2437.00	110.6 AV			4.00 V	336	79.3	31.3
3	4874.00	52.6 PK	74.0	-21.4	1.36 V	102	52.0	0.6
4	4874.00	48.1 AV	54.0	-5.9	1.36 V	102	47.5	0.6

**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.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	113.2 PK			1.32 H	20	81.8	31.4
2	*2462.00	111.3 AV			1.32 H	20	79.9	31.4
3	2483.50	57.9 PK	74.0	-16.1	2.27 H	49	26.4	31.5
4	2483.50	48.6 AV	54.0	-5.4	2.27 H	49	17.1	31.5
5	4924.00	52.7 PK	74.0	-21.3	1.10 H	260	52.1	0.6
6	4924.00	48.3 AV	54.0	-5.7	1.10 H	260	47.7	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	113.2 PK			3.74 V	313	81.8	31.4
2	*2462.00	111.0 AV			3.74 V	313	79.6	31.4
3	2483.50	57.6 PK	74.0	-16.4	3.68 V	315	26.1	31.5
4	2483.50	47.4 AV	54.0	-6.6	3.68 V	315	15.9	31.5
5	4924.00	53.8 PK	74.0	-20.2	1.29 V	224	53.2	0.6
6	4924.00	50.1 AV	54.0	-3.9	1.29 V	224	49.5	0.6

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.

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.7 PK	74.0	-8.3	1.55 H	304	34.7	31.0
2	2390.00	52.6 AV	54.0	-1.4	1.55 H	304	21.6	31.0
3	*2412.00	112.6 PK			1.49 H	309	81.4	31.2
4	*2412.00	102.0 AV			1.49 H	309	70.8	31.2
5	4824.00	44.0 PK	74.0	-30.0	1.69 H	336	43.5	0.5
6	4824.00	33.3 AV	54.0	-20.7	1.69 H	336	32.8	0.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.7 PK	74.0	-11.3	3.14 V	340	31.7	31.0
2	2390.00	50.3 AV	54.0	-3.7	3.14 V	340	19.3	31.0
3	*2412.00	111.5 PK			3.14 V	341	80.3	31.2
4	*2412.00	101.8 AV			3.14 V	341	70.6	31.2
5	4824.00	43.3 PK	74.0	-30.7	2.00 V	37	42.8	0.5
6	4824.00	31.8 AV	54.0	-22.2	2.00 V	37	31.3	0.5

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.7 PK			2.06 H	24	86.4	31.3
2	*2437.00	107.3 AV			2.06 H	24	76.0	31.3
3	4874.00	49.8 PK	74.0	-24.2	1.33 H	153	49.2	0.6
4	4874.00	36.1 AV	54.0	-17.9	1.33 H	153	35.5	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	115.4 PK			3.91 V	312	84.1	31.3
2	*2437.00	105.1 AV			3.91 V	312	73.8	31.3
3	4874.00	49.8 PK	74.0	-24.2	1.09 V	108	49.2	0.6
4	4874.00	36.6 AV	54.0	-17.4	1.09 V	108	36.0	0.6

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.



CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	115.5 PK			1.54 H	42	84.1	31.4
2	*2462.00	105.2 AV			1.54 H	42	73.8	31.4
3	2483.50	66.1 PK	74.0	-7.9	2.07 H	273	34.6	31.5
4	2483.50	52.3 AV	54.0	-1.7	2.07 H	273	20.8	31.5
5	4924.00	48.9 PK	74.0	-25.1	2.01 H	294	48.3	0.6
6	4924.00	35.8 AV	54.0	-18.2	2.01 H	294	35.2	0.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	112.0 PK			3.09 V	350	80.6	31.4
2	*2462.00	102.3 AV			3.09 V	350	70.9	31.4
3	2483.50	62.9 PK	74.0	-11.1	3.09 V	350	31.4	31.5
4	2483.50	49.1 AV	54.0	-4.9	3.09 V	350	17.6	31.5
5	4924.00	48.0 PK	74.0	-26.0	2.10 V	134	47.4	0.6
6	4924.00	34.2 AV	54.0	-19.8	2.10 V	134	33.6	0.6

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.

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 25GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.5 PK	74.0	-7.5	1.09 H	300	35.5	31.0
2	2390.00	52.4 AV	54.0	-1.6	1.09 H	300	21.4	31.0
3	*2412.00	115.2 PK			1.53 H	288	84.0	31.2
4	*2412.00	104.6 AV			1.53 H	288	73.4	31.2
5	4824.00	48.1 PK	74.0	-25.9	1.33 H	153	47.6	0.5
6	4824.00	34.0 AV	54.0	-20.0	1.33 H	153	33.5	0.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.4 PK	74.0	-12.6	1.10 V	359	30.4	31.0
2	2390.00	47.7 AV	54.0	-6.3	1.10 V	359	16.7	31.0
3	*2412.00	114.3 PK			3.96 V	311	83.1	31.2
4	*2412.00	103.3 AV			3.96 V	311	72.1	31.2
5	4824.00	47.5 PK	74.0	-26.5	1.13 V	226	47.0	0.5
6	4824.00	33.1 AV	54.0	-20.9	1.13 V	226	32.6	0.5

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.4 PK			2.72 H	32	86.1	31.3
2	*2437.00	106.9 AV			2.72 H	32	75.6	31.3
3	4874.00	49.1 PK	74.0	-24.9	1.20 H	318	48.5	0.6
4	4874.00	34.9 AV	54.0	-19.1	1.20 H	318	34.3	0.6

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	110.4 PK			1.00 V	314	79.1	31.3
2	*2437.00	99.9 AV			1.00 V	314	68.6	31.3
3	4874.00	49.5 PK	74.0	-24.5	1.08 V	108	48.9	0.6
4	4874.00	35.6 AV	54.0	-18.4	1.08 V	108	35.0	0.6

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.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	115.4 PK			2.92 H	33	84.0	31.4
2	*2462.00	105.3 AV			2.92 H	33	73.9	31.4
3	2483.50	67.3 PK	74.0	-6.7	3.87 H	256	35.8	31.5
4	2483.50	52.3 AV	54.0	-1.7	3.87 H	256	20.8	31.5
5	4924.00	51.4 PK	74.0	-22.6	2.93 H	42	50.8	0.6
6	4924.00	36.6 AV	54.0	-17.4	2.93 H	42	36.0	0.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	114.3 PK			3.70 V	312	82.9	31.4
2	*2462.00	103.7 AV			3.70 V	312	72.3	31.4
3	2483.50	66.2 PK	74.0	-7.8	4.00 V	316	34.7	31.5
4	2483.50	50.8 AV	54.0	-3.2	4.00 V	316	19.3	31.5
5	4924.00	47.8 PK	74.0	-26.2	3.66 V	349	47.2	0.6
6	4924.00	34.3 AV	54.0	-19.7	3.66 V	349	33.7	0.6

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.

802.11n (HT40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.9 PK	74.0	-9.1	3.08 H	30	33.9	31.0
2	2390.00	52.4 AV	54.0	-1.6	3.08 H	30	21.4	31.0
3	*2422.00	107.8 PK			1.83 H	275	76.6	31.2
4	*2422.00	98.2 AV			1.83 H	275	67.0	31.2
5	4844.00	44.3 PK	74.0	-29.7	1.23 H	221	43.9	0.4
6	4844.00	31.4 AV	54.0	-22.6	1.23 H	221	31.0	0.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.5 PK	74.0	-10.5	3.94 V	318	32.5	31.0
2	2390.00	50.0 AV	54.0	-4.0	3.94 V	318	19.0	31.0
3	*2422.00	100.3 PK			2.50 V	265	69.1	31.2
4	*2422.00	91.1 AV			2.50 V	265	59.9	31.2
5	4844.00	44.2 PK	74.0	-29.8	1.47 V	222	43.8	0.4
6	4844.00	31.3 AV	54.0	-22.7	1.47 V	222	30.9	0.4

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.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.3 PK	74.0	-7.7	1.72 H	296	35.3	31.0
2	2390.00	52.3 AV	54.0	-1.7	1.72 H	296	21.3	31.0
3	*2437.00	111.1 PK			1.73 H	24	79.8	31.3
4	*2437.00	101.4 AV			1.73 H	24	70.1	31.3
5	4874.00	44.4 PK	74.0	-29.6	1.13 H	259	43.8	0.6
6	4874.00	32.1 AV	54.0	-21.9	1.13 H	259	31.5	0.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.1 PK	74.0	-12.9	4.00 V	315	30.1	31.0
2	2390.00	48.3 AV	54.0	-5.7	4.00 V	315	17.3	31.0
3	*2437.00	110.6 PK			3.81 V	315	79.3	31.3
4	*2437.00	101.1 AV			3.81 V	315	69.8	31.3
5	4874.00	44.1 PK	74.0	-29.9	3.34 V	293	43.5	0.6
6	4874.00	31.2 AV	54.0	-22.8	3.34 V	293	30.6	0.6

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.

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	112.1 PK			2.02 H	23	80.7	31.4
2	*2452.00	102.6 AV			2.02 H	23	71.2	31.4
3	2483.50	68.4 PK	74.0	-5.6	2.15 H	93	36.9	31.5
4	2483.50	52.2 AV	54.0	-1.8	2.15 H	93	20.7	31.5
5	4904.00	45.0 PK	74.0	-29.0	1.50 H	299	44.5	0.5
6	4904.00	32.5 AV	54.0	-21.5	1.50 H	299	32.0	0.5

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	105.3 PK			1.00 V	281	73.9	31.4
2	*2452.00	95.6 AV			1.00 V	281	64.2	31.4
3	2483.50	60.3 PK	74.0	-13.7	1.00 V	279	28.8	31.5
4	2483.50	46.6 AV	54.0	-7.4	1.00 V	279	15.1	31.5
5	4904.00	44.3 PK	74.0	-29.7	1.63 V	133	43.8	0.5
6	4904.00	31.8 AV	54.0	-22.2	1.63 V	133	31.3	0.5

**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.

Below 1GHz worst-case data: 802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	27.3 QP	40.0	-12.7	2.00 H	11	41.9	-14.6
2	156.28	32.2 QP	43.5	-11.3	1.49 H	95	45.9	-13.7
3	267.10	32.9 QP	46.0	-13.1	1.00 H	255	46.1	-13.2
4	395.43	34.1 QP	46.0	-11.9	1.00 H	231	44.2	-10.1
5	531.53	35.6 QP	46.0	-10.4	1.49 H	135	42.9	-7.3
6	895.11	33.7 QP	46.0	-12.3	1.00 H	95	33.7	0.0

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	47.40	34.9 QP	40.0	-5.1	1.49 V	357	49.4	-14.5
2	64.90	35.7 QP	40.0	-4.3	1.00 V	18	51.2	-15.5
3	97.95	29.4 QP	43.5	-14.1	1.00 V	231	48.3	-18.9
4	269.05	33.1 QP	46.0	-12.9	1.49 V	28	46.1	-13.0
5	393.48	35.8 QP	46.0	-10.2	1.00 V	200	46.0	-10.2
6	508.19	36.1 QP	46.0	-9.9	1.00 V	186	43.7	-7.6

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



CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	B		

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	70.73	27.3 QP	40.0	-12.7	2.00 H	227	43.7	-16.4
2	103.78	26.8 QP	43.5	-16.7	1.50 H	256	44.8	-18.0
3	154.33	27.4 QP	43.5	-16.1	1.50 H	251	41.1	-13.7
4	206.83	25.0 QP	43.5	-18.5	1.50 H	228	41.3	-16.3
5	399.31	33.1 QP	46.0	-12.9	2.00 H	206	43.3	-10.2
6	519.86	35.1 QP	46.0	-10.9	1.50 H	132	42.5	-7.4

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	37.68	38.2 QP	40.0	-1.8	1.01 V	172	53.6	-15.4
2	64.90	37.6 QP	40.0	-2.4	1.50 V	6	53.1	-15.5
3	410.98	34.6 QP	46.0	-11.4	1.01 V	144	44.4	-9.8
4	492.64	35.7 QP	46.0	-10.3	1.01 V	156	43.8	-8.1
5	747.34	42.9 QP	46.0	-3.1	1.01 V	22	45.2	-2.3
6	899.00	42.8 QP	46.0	-3.2	1.50 V	100	42.6	0.2

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

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	D		

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	27.8 QP	40.0	-12.2	1.99 H	42	42.4	-14.6
2	154.33	32.8 QP	43.5	-10.7	1.99 H	52	46.5	-13.7
3	202.94	33.5 QP	43.5	-10.0	1.49 H	114	49.9	-16.4
4	393.48	32.0 QP	46.0	-14.0	1.00 H	146	42.2	-10.2
5	506.25	31.8 QP	46.0	-14.2	1.49 H	81	39.4	-7.6
6	729.84	32.2 QP	46.0	-13.8	1.49 H	16	35.0	-2.8

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	39.62	37.1 QP	40.0	-2.9	1.01 V	162	52.3	-15.2
2	109.62	31.5 QP	43.5	-12.0	1.01 V	97	48.8	-17.3
3	267.10	32.0 QP	46.0	-14.0	1.01 V	69	45.2	-13.2
4	393.48	34.2 QP	46.0	-11.8	1.51 V	226	44.4	-10.2
5	502.36	35.8 QP	46.0	-10.2	1.01 V	181	43.5	-7.7
6	554.86	34.3 QP	46.0	-11.7	1.01 V	169	41.2	-6.9

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

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	E		

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	78.51	30.9 QP	40.0	-9.1	2.00 H	239	49.2	-18.3
2	154.33	29.6 QP	43.5	-13.9	2.00 H	42	43.3	-13.7
3	204.89	27.0 QP	43.5	-16.5	2.00 H	338	43.4	-16.4
4	393.48	26.8 QP	46.0	-19.2	2.00 H	279	37.0	-10.2
5	502.36	29.8 QP	46.0	-16.2	2.00 H	3	37.5	-7.7
6	932.05	32.7 QP	46.0	-13.3	1.00 H	159	31.7	1.0

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	47.40	37.6 QP	40.0	-2.4	1.00 V	9	52.1	-14.5
2	103.78	30.4 QP	43.5	-13.1	1.00 V	277	48.4	-18.0
3	167.94	27.6 QP	43.5	-15.9	1.00 V	233	41.5	-13.9
4	302.10	31.4 QP	46.0	-14.6	1.00 V	278	43.4	-12.0
5	397.37	33.1 QP	46.0	-12.9	1.00 V	148	43.3	-10.2
6	502.36	34.9 QP	46.0	-11.1	1.50 V	175	42.6	-7.7

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

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	F		

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	26.6 QP	40.0	-13.4	2.00 H	216	41.2	-14.6
2	154.33	30.3 QP	43.5	-13.2	2.00 H	41	44.0	-13.7
3	199.05	31.9 QP	43.5	-11.6	2.00 H	124	48.1	-16.2
4	393.48	28.9 QP	46.0	-17.1	1.00 H	274	39.1	-10.2
5	502.36	31.9 QP	46.0	-14.1	2.00 H	21	39.6	-7.7
6	729.84	38.6 QP	46.0	-7.4	1.50 H	322	41.4	-2.8

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	39.62	36.1 QP	40.0	-3.9	1.00 V	269	51.3	-15.2
2	107.67	32.4 QP	43.5	-11.1	1.00 V	135	49.9	-17.5
3	158.22	30.7 QP	43.5	-12.8	1.00 V	275	44.3	-13.6
4	393.48	34.5 QP	46.0	-11.5	1.00 V	137	44.7	-10.2
5	502.36	37.1 QP	46.0	-8.9	1.00 V	170	44.8	-7.7
6	747.34	35.1 QP	46.0	-10.9	1.50 V	303	37.4	-2.3

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

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	G		

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	45.45	28.1 QP	40.0	-11.9	2.00 H	57	42.8	-14.7
2	78.51	30.9 QP	40.0	-9.1	2.00 H	215	49.2	-18.3
3	154.33	31.1 QP	43.5	-12.4	2.00 H	222	44.8	-13.7
4	393.48	27.0 QP	46.0	-19.0	1.00 H	269	37.2	-10.2
5	504.31	29.8 QP	46.0	-16.2	2.00 H	24	37.5	-7.7
6	986.49	33.2 QP	54.0	-20.8	1.50 H	340	31.4	1.8

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	45.45	36.1 QP	40.0	-3.9	1.50 V	12	50.8	-14.7
2	105.73	29.9 QP	43.5	-13.6	1.50 V	255	47.6	-17.7
3	397.37	35.1 QP	46.0	-10.9	1.50 V	133	45.3	-10.2
4	504.31	35.6 QP	46.0	-10.4	1.50 V	181	43.3	-7.7
5	704.57	43.5 QP	46.0	-2.5	1.50 V	359	47.0	-3.5
6	910.66	40.5 QP	46.0	-5.5	2.00 V	140	39.9	0.6

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

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	H		

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	27.4 QP	40.0	-12.6	2.00 H	134	42.0	-14.6
2	154.33	29.5 QP	43.5	-14.0	2.00 H	16	43.2	-13.7
3	206.83	32.1 QP	43.5	-11.4	2.00 H	273	48.4	-16.3
4	393.48	29.0 QP	46.0	-17.0	1.00 H	267	39.2	-10.2
5	500.42	33.2 QP	46.0	-12.8	2.00 H	15	41.1	-7.9
6	937.88	34.1 QP	46.0	-11.9	1.50 H	230	33.0	1.1

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	39.62	38.1 QP	40.0	-1.9	1.00 V	205	53.3	-15.2
2	107.67	30.5 QP	43.5	-13.0	1.00 V	94	48.0	-17.5
3	158.22	31.5 QP	43.5	-12.0	1.00 V	259	45.1	-13.6
4	393.48	32.4 QP	46.0	-13.6	1.00 V	149	42.6	-10.2
5	502.36	37.5 QP	46.0	-8.5	1.00 V	189	45.2	-7.7
6	543.19	36.2 QP	46.0	-9.8	1.00 V	165	43.3	-7.1

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

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	I		

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	37.68	27.3 QP	40.0	-12.7	2.00 H	82	42.7	-15.4
2	78.51	29.6 QP	40.0	-10.4	2.00 H	202	47.9	-18.3
3	154.33	31.2 QP	43.5	-12.3	1.00 H	178	44.9	-13.7
4	202.94	26.9 QP	43.5	-16.6	2.00 H	134	43.3	-16.4
5	504.31	30.0 QP	46.0	-16.0	2.00 H	15	37.7	-7.7
6	914.55	38.3 QP	46.0	-7.7	1.50 H	171	37.5	0.8

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	45.45	37.7 QP	40.0	-2.3	1.01 V	179	52.4	-14.7
2	103.78	30.8 QP	43.5	-12.7	1.01 V	266	48.8	-18.0
3	164.06	28.5 QP	43.5	-15.0	1.01 V	223	42.2	-13.7
4	397.37	35.3 QP	46.0	-10.7	1.50 V	143	45.5	-10.2
5	504.31	34.8 QP	46.0	-11.2	1.01 V	186	42.5	-7.7
6	935.94	34.1 QP	46.0	-11.9	1.50 V	0	33.2	0.9

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

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	J		

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	27.2 QP	40.0	-12.8	2.00 H	141	41.8	-14.6
2	154.33	29.0 QP	43.5	-14.5	2.00 H	4	42.7	-13.7
3	206.83	31.6 QP	43.5	-11.9	2.00 H	283	47.9	-16.3
4	300.16	26.1 QP	46.0	-19.9	1.00 H	319	38.1	-12.0
5	391.54	29.1 QP	46.0	-16.9	2.00 H	271	39.3	-10.2
6	502.36	31.9 QP	46.0	-14.1	1.50 H	16	39.6	-7.7

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	41.57	37.0 QP	40.0	-3.0	1.00 V	194	52.0	-15.0
2	107.67	31.3 QP	43.5	-12.2	1.00 V	114	48.8	-17.5
3	152.39	31.3 QP	43.5	-12.2	1.00 V	220	45.1	-13.8
4	267.10	31.7 QP	46.0	-14.3	1.00 V	52	44.9	-13.2
5	393.48	31.9 QP	46.0	-14.1	1.00 V	144	42.1	-10.2
6	502.36	36.1 QP	46.0	-9.9	1.50 V	184	43.8	-7.7

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



CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	K		

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	78.51	30.3 QP	40.0	-9.7	2.00 H	234	48.6	-18.3
2	154.33	30.9 QP	43.5	-12.6	2.00 H	203	44.6	-13.7
3	327.38	29.3 QP	46.0	-16.7	2.00 H	180	40.6	-11.3
4	397.37	26.6 QP	46.0	-19.4	1.00 H	278	36.8	-10.2
5	502.36	29.5 QP	46.0	-16.5	2.00 H	7	37.2	-7.7
6	895.11	39.9 QP	46.0	-6.1	1.50 H	247	39.9	0.0

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	45.45	37.8 QP	40.0	-2.2	1.00 V	10	52.5	-14.7
2	105.73	30.7 QP	43.5	-12.8	1.00 V	322	48.4	-17.7
3	154.33	28.9 QP	43.5	-14.6	1.00 V	226	42.6	-13.7
4	397.37	33.2 QP	46.0	-12.8	1.00 V	150	43.4	-10.2
5	500.42	34.6 QP	46.0	-11.4	1.00 V	188	42.5	-7.9
6	825.11	31.8 QP	46.0	-14.2	2.00 V	266	32.8	-1.0

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

## 4.2 Conducted Emission Measurement

### 4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

**Note:** 1. The lower limit shall apply at the transition frequencies.  
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 21, 2016	Nov. 20, 2017
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Dec. 22, 2016	Dec. 21, 2017
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Mar. 10, 2017	Mar. 09, 2018
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 28, 2016	Jul. 27, 2017
			Jul. 28, 2017	Jul. 27, 2018
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

**Note:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
 2. The test was performed in HwaYa Shielded Room 1.  
 3. The VCCI Site Registration No. is C-2040.

#### 4.2.3 Test Procedures

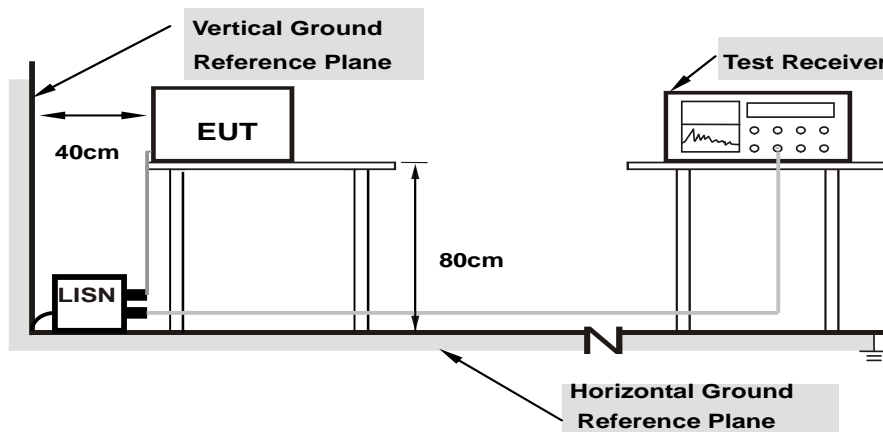
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

#### 4.2.4 Deviation from Test Standard

No deviation.

#### 4.2.5 Test Setup



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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.2.6 EUT Operating Conditions

Same as 4.1.6.

#### 4.2.7 Test Results

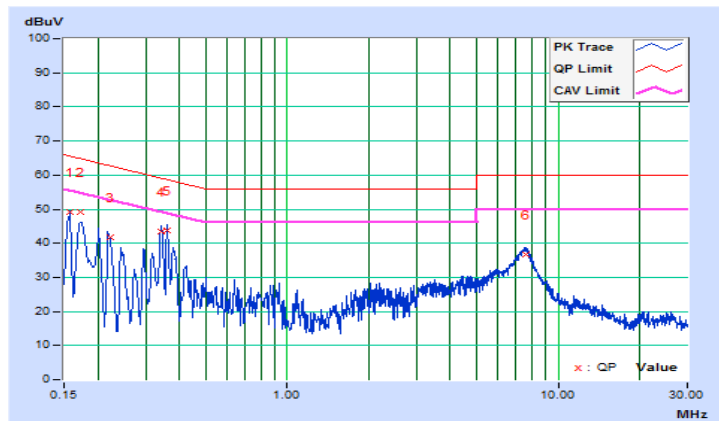
Worst-case data: 802.11b

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15687	10.41	38.76	25.58	49.17	35.99	65.63
2	0.17157	10.42	38.76	26.83	49.18	37.25	64.88	54.88	-15.70	-17.63
3	0.22200	10.44	31.39	17.81	41.83	28.25	62.74	52.74	-20.91	-24.49
4	0.34124	10.49	33.01	31.37	43.50	41.86	59.17	49.17	-15.67	-7.31
5	0.35876	10.49	33.38	26.53	43.87	37.02	58.76	48.76	-14.89	-11.74
6	7.57000	10.80	25.82	19.32	36.62	30.12	60.00	50.00	-23.38	-19.88

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

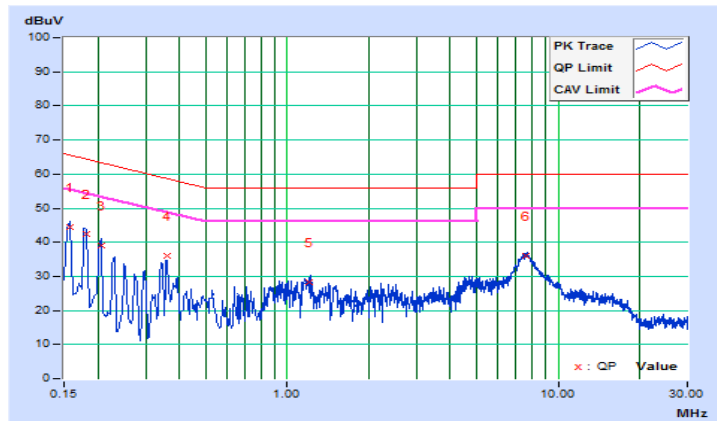


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15687	10.16	34.17	19.10	44.33	29.26	65.63
2	0.18200	10.18	32.28	16.13	42.46	26.31	64.39	54.39	-21.93	-28.08
3	0.20523	10.20	28.85	12.37	39.05	22.57	63.40	53.40	-24.35	-30.83
4	0.35876	10.22	25.67	17.56	35.89	27.78	58.76	48.76	-22.87	-20.98
5	1.20222	10.25	18.10	12.76	28.35	23.01	56.00	46.00	-27.65	-22.99
6	7.57000	10.55	25.38	18.80	35.93	29.35	60.00	50.00	-24.07	-20.65

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

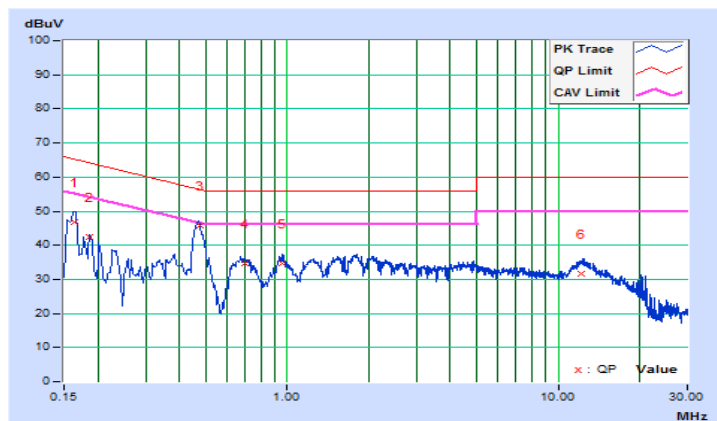


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.16319	10.41	36.40	23.10	46.81	33.51	65.30
2	0.18519	10.42	32.02	20.03	42.44	30.45	64.25	54.25	-21.81	-23.80
<b>3</b>	<b>0.47400</b>	<b>10.50</b>	<b>35.22</b>	<b>30.67</b>	<b>45.72</b>	<b>41.17</b>	<b>56.44</b>	<b>46.44</b>	<b>-10.72</b>	<b>-5.27</b>
4	0.69502	10.49	24.11	19.44	34.60	29.93	56.00	46.00	-21.40	-16.07
5	0.95345	10.46	24.18	21.07	34.64	31.53	56.00	46.00	-21.36	-14.47
6	12.13800	11.01	20.78	15.50	31.79	26.51	60.00	50.00	-28.21	-23.49

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

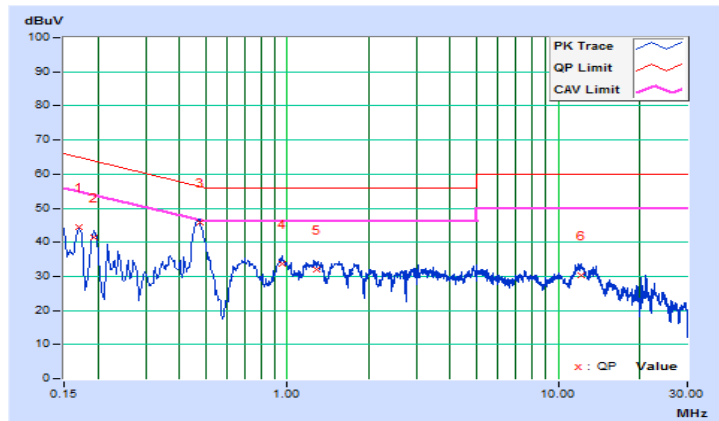


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.16932	10.17	34.42	20.52	44.59	30.69	64.99
2	0.19265	10.19	31.12	17.39	41.31	27.58	63.92	53.92	-22.61	-26.34
3	0.47400	10.23	35.42	30.84	45.65	41.07	56.44	46.44	-10.79	-5.37
4	0.95345	10.24	23.49	20.40	33.73	30.64	56.00	46.00	-22.27	-15.36
5	1.28069	10.26	21.72	18.19	31.98	28.45	56.00	46.00	-24.02	-17.55
6	12.10200	10.72	19.70	14.48	30.42	25.20	60.00	50.00	-29.58	-24.80

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

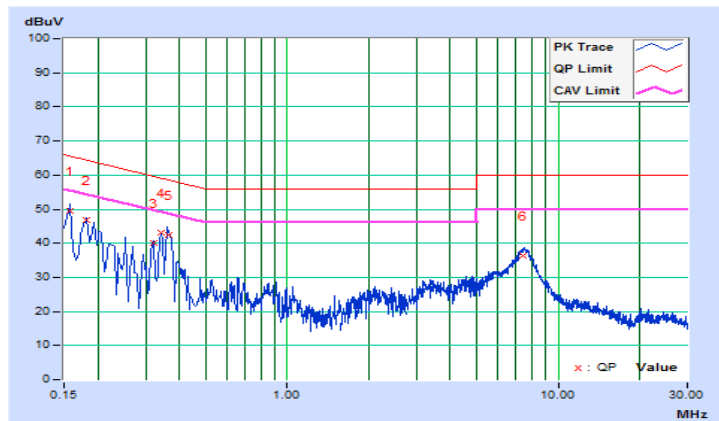


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15687	10.41	39.20	25.85	49.61	36.26	65.63
2	0.18037	10.42	36.43	23.80	46.85	34.22	64.47	54.47	-17.62	-20.25
3	0.31949	10.48	29.62	27.44	40.10	37.92	59.72	49.72	-19.62	-11.80
4	0.34124	10.49	32.50	30.88	42.99	41.37	59.17	49.17	-16.18	-7.80
5	0.36600	10.50	32.08	28.89	42.58	39.39	58.59	48.59	-16.01	-9.20
6	7.39000	10.80	25.40	19.06	36.20	29.86	60.00	50.00	-23.80	-20.14

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



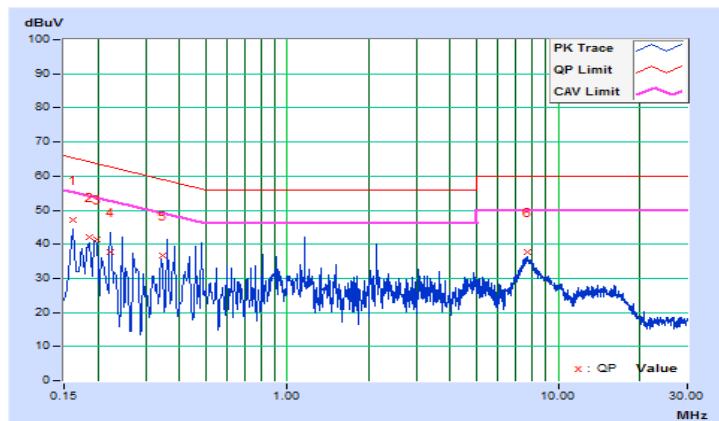


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.16105	10.16	36.96	21.90	47.12	32.06	65.41
2	0.18519	10.19	31.97	17.26	42.16	27.45	64.25	54.25	-22.09	-26.80
3	0.19800	10.20	31.17	16.19	41.37	26.39	63.69	53.69	-22.32	-27.30
4	0.22152	10.20	27.62	11.78	37.82	21.98	62.76	52.76	-24.94	-30.78
5	0.34600	10.22	26.37	18.84	36.59	29.06	59.06	49.06	-22.47	-20.00
6	7.67000	10.55	27.20	20.78	37.75	31.33	60.00	50.00	-22.25	-18.67

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

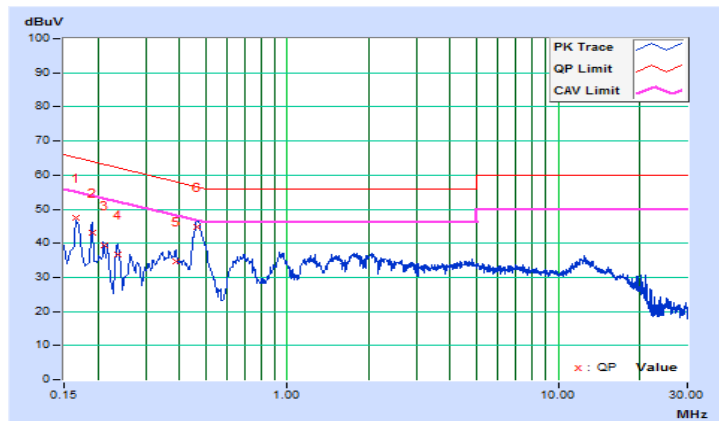


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	E		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.16535	10.41	36.97	22.79	47.38	33.20	65.19
2	0.19013	10.43	32.71	20.33	43.14	30.76	64.03	54.03	-20.89	-23.27
3	0.21015	10.43	29.04	17.18	39.47	27.61	63.20	53.20	-23.73	-25.59
4	0.23598	10.44	26.36	16.87	36.80	27.31	62.24	52.24	-25.44	-24.93
5	0.38725	10.50	24.22	18.44	34.72	28.94	58.12	48.12	-23.40	-19.18
6	0.46200	10.50	34.28	27.99	44.78	38.49	56.66	46.66	-11.88	-8.17

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

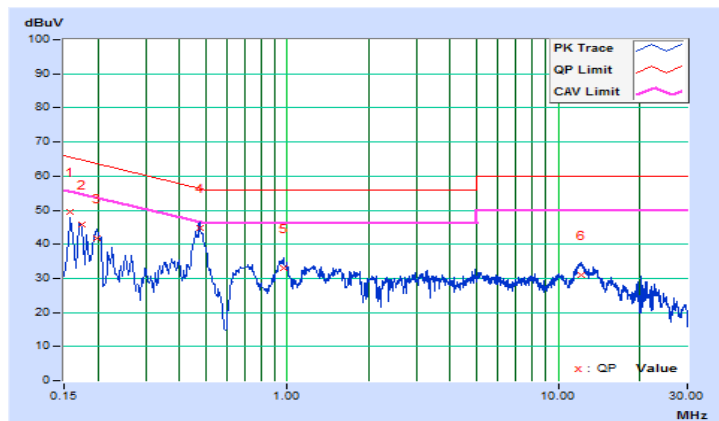


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	E		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15687	10.16	39.40	25.14	49.56	35.30	65.63
2	0.17400	10.18	35.58	21.64	45.76	31.82	64.77	54.77	-19.01	-22.95
3	0.19728	10.20	31.51	17.14	41.71	27.34	63.72	53.72	-22.01	-26.38
4	0.47434	10.23	34.47	29.75	44.70	39.98	56.44	46.44	-11.74	-6.46
5	0.96609	10.24	22.64	18.81	32.88	29.05	56.00	46.00	-23.12	-16.95
6	12.13800	10.73	20.32	15.29	31.05	26.02	60.00	50.00	-28.95	-23.98

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

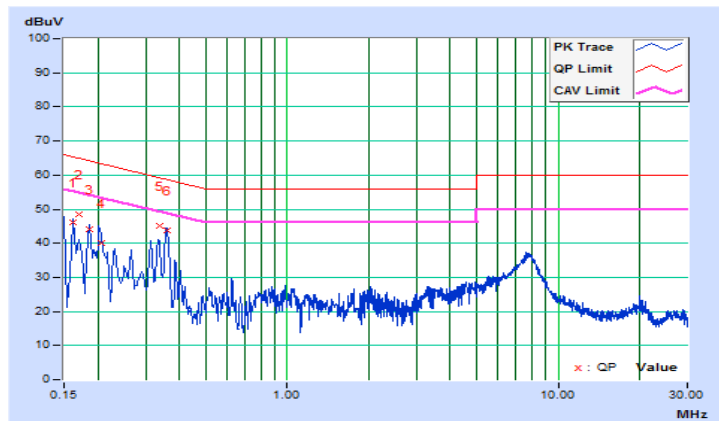


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	F		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.16105	10.41	35.58	24.81	45.99	35.22	65.41
2	0.16932	10.41	38.08	26.77	48.49	37.18	64.99	54.99	-16.50	-17.81
3	0.18519	10.42	33.66	23.08	44.08	33.50	64.25	54.25	-20.17	-20.75
4	0.20600	10.43	29.59	18.88	40.02	29.31	63.37	53.37	-23.35	-24.06
5	0.33800	10.49	34.63	31.93	45.12	42.42	59.25	49.25	-14.13	-6.83
6	0.35876	10.49	33.35	30.25	43.84	40.74	58.76	48.76	-14.92	-8.02

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

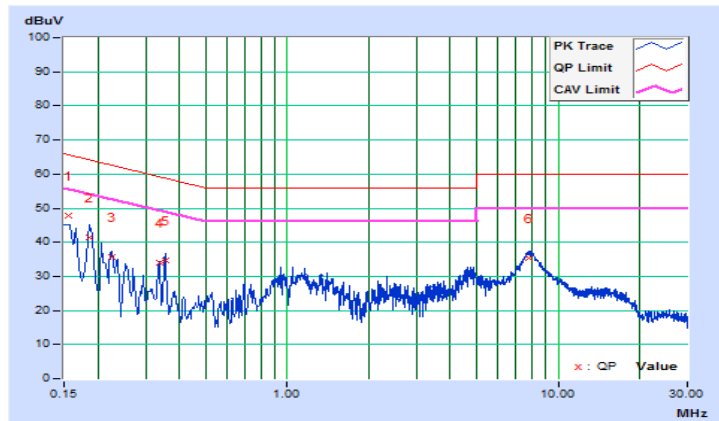


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	F		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15522	10.16	37.50	22.11	47.66	32.27	65.72
2	0.18519	10.19	31.13	17.31	41.32	27.50	64.25	54.25	-22.93	-26.75
3	0.22387	10.20	25.47	11.00	35.67	21.20	62.67	52.67	-27.00	-31.47
4	0.33678	10.22	23.71	17.83	33.93	28.05	59.28	49.28	-25.35	-21.23
5	0.35407	10.22	24.36	15.59	34.58	25.81	58.87	48.87	-24.29	-23.06
6	7.76600	10.56	24.77	18.83	35.33	29.39	60.00	50.00	-24.67	-20.61

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

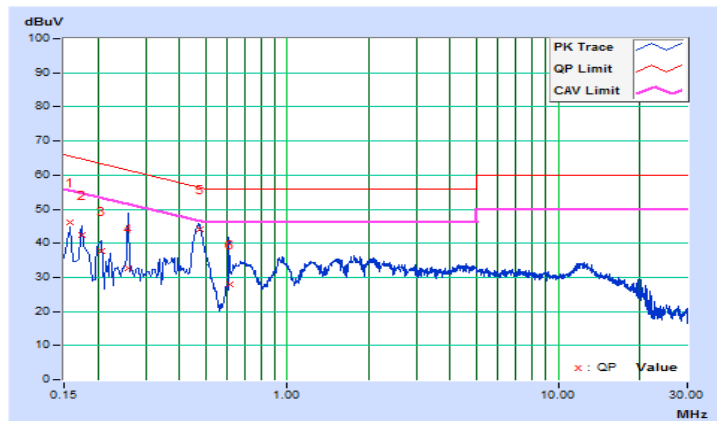


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	G		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15687	10.41	35.78	22.80	46.19	33.21	65.63
2	0.17384	10.42	32.10	19.67	42.52	30.09	64.77	54.77	-22.25	-24.68
3	0.20523	10.43	27.32	14.57	37.75	25.00	63.40	53.40	-25.65	-28.40
4	0.25742	10.45	22.05	14.24	32.50	24.69	61.51	51.51	-29.01	-26.82
5	0.47400	10.50	33.46	28.92	43.96	39.42	56.44	46.44	-12.48	-7.02
6	0.61084	10.49	17.42	12.41	27.91	22.90	56.00	46.00	-28.09	-23.10

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

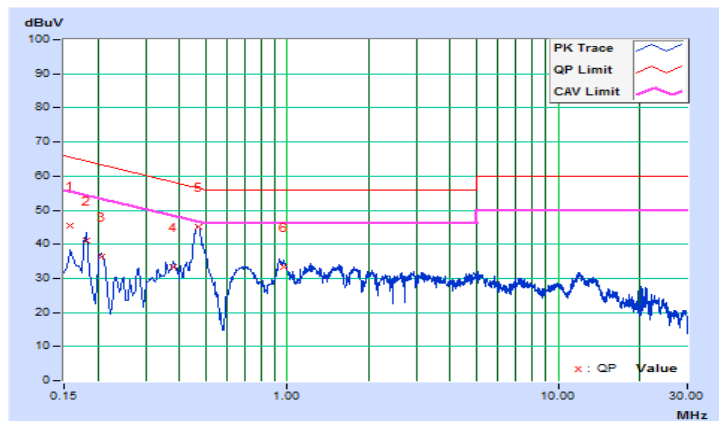


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	G		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15687	10.16	35.45	21.89	45.61	32.05	65.63
2	0.18037	10.18	30.74	17.56	40.92	27.74	64.47	54.47	-23.55	-26.73
3	0.20523	10.20	26.25	11.86	36.45	22.06	63.40	53.40	-26.95	-31.34
4	0.37718	10.23	23.26	17.48	33.49	27.71	58.34	48.34	-24.85	-20.63
5	0.47000	10.23	34.95	30.71	45.18	40.94	56.51	46.51	-11.33	-5.57
6	0.96864	10.24	23.17	19.46	33.41	29.70	56.00	46.00	-22.59	-16.30

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

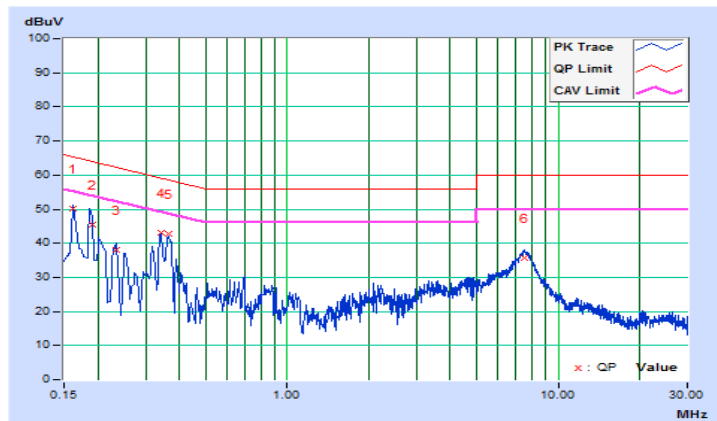


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	H		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.16105	10.41	39.81	25.78	50.22	36.19	65.41
2	0.19000	10.42	34.99	22.95	45.41	33.37	64.04	54.04	-18.63	-20.67
3	0.23289	10.44	27.46	13.31	37.90	23.75	62.35	52.35	-24.45	-28.60
4	0.34124	10.49	32.68	30.64	43.17	41.13	59.17	49.17	-16.00	-8.04
5	0.36352	10.50	32.27	29.02	42.77	39.52	58.65	48.65	-15.88	-9.13
6	7.49800	10.80	24.89	18.81	35.69	29.61	60.00	50.00	-24.31	-20.39

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



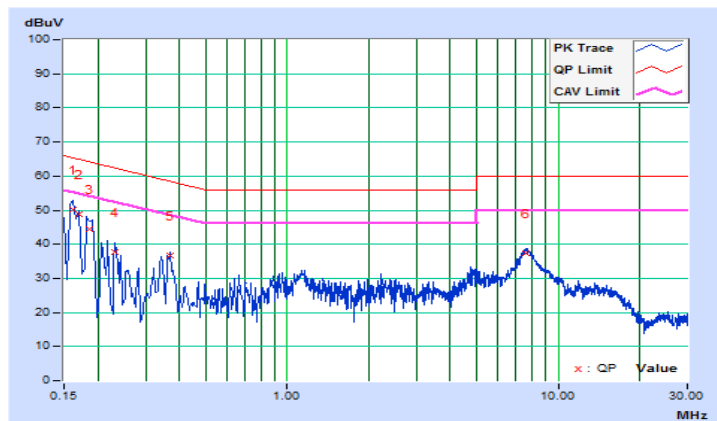


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	H		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.16105	10.16	40.12	24.30	50.28	34.46	65.41
2	0.16932	10.17	38.63	24.29	48.80	34.46	64.99	54.99	-16.19	-20.53
3	0.18666	10.19	34.42	19.69	44.61	29.88	64.18	54.18	-19.57	-24.30
4	0.22985	10.20	27.49	12.56	37.69	22.76	62.46	52.46	-24.77	-29.70
5	0.36834	10.23	26.46	20.22	36.69	30.45	58.54	48.54	-21.85	-18.09
6	7.57400	10.55	26.84	20.28	37.39	30.83	60.00	50.00	-22.61	-19.17

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

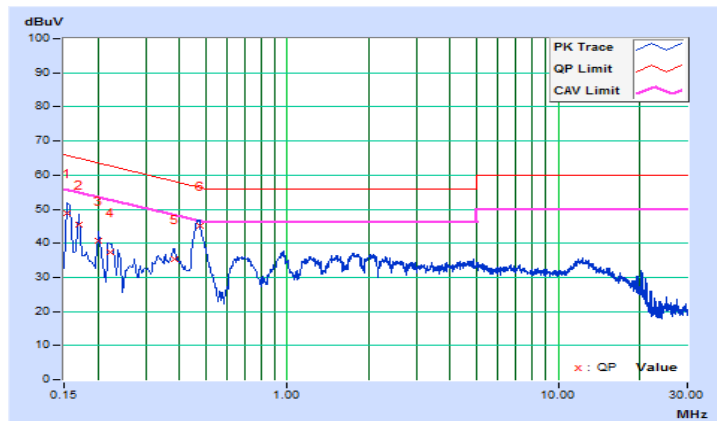


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	I		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15400	10.41	38.32	25.24	48.73	35.65	65.78
2	0.16932	10.41	35.01	21.69	45.42	32.10	64.99	54.99	-19.57	-22.89
3	0.19989	10.43	30.28	17.51	40.71	27.94	63.62	53.62	-22.91	-25.68
4	0.22200	10.44	26.96	14.72	37.40	25.16	62.74	52.74	-25.34	-27.58
5	0.38200	10.50	24.89	18.97	35.39	29.47	58.24	48.24	-22.85	-18.77
6	0.47434	10.50	34.65	30.07	45.15	40.57	56.44	46.44	-11.29	-5.87

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

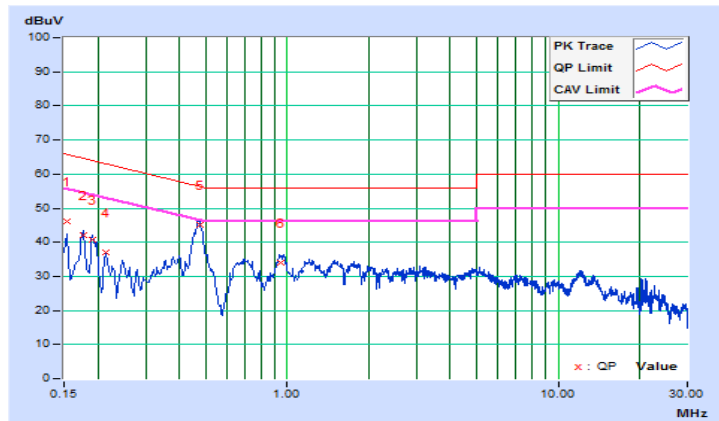


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	I		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15400	10.16	35.92	22.43	46.08	32.59	65.78
2	0.17615	10.18	32.00	19.19	42.18	29.37	64.67	54.67	-22.49	-25.30
3	0.19013	10.19	30.42	17.17	40.61	27.36	64.03	54.03	-23.42	-26.67
4	0.21294	10.20	26.95	14.39	37.15	24.59	63.09	53.09	-25.94	-28.50
5	0.47400	10.23	34.99	30.43	45.22	40.66	56.44	46.44	-11.22	-5.78
6	0.94097	10.24	23.81	20.33	34.05	30.57	56.00	46.00	-21.95	-15.43

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

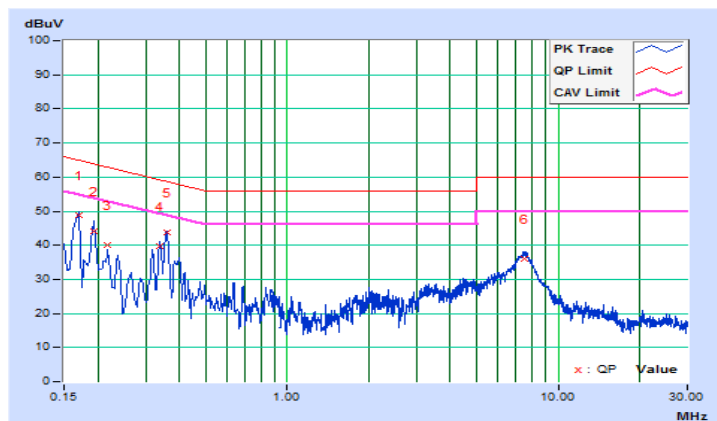


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	J		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.16932	10.41	38.43	26.50	48.84	36.91	64.99
2	0.19265	10.43	33.70	23.50	44.13	33.93	63.92	53.92	-19.79	-19.99
3	0.21576	10.44	29.60	18.37	40.04	28.81	62.98	52.98	-22.94	-24.17
4	0.33678	10.48	29.30	27.23	39.78	37.71	59.28	49.28	-19.50	-11.57
5	0.35876	10.49	33.22	27.81	43.71	38.30	58.76	48.76	-15.05	-10.46
6	7.46285	10.80	25.16	18.90	35.96	29.70	60.00	50.00	-24.04	-20.30

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

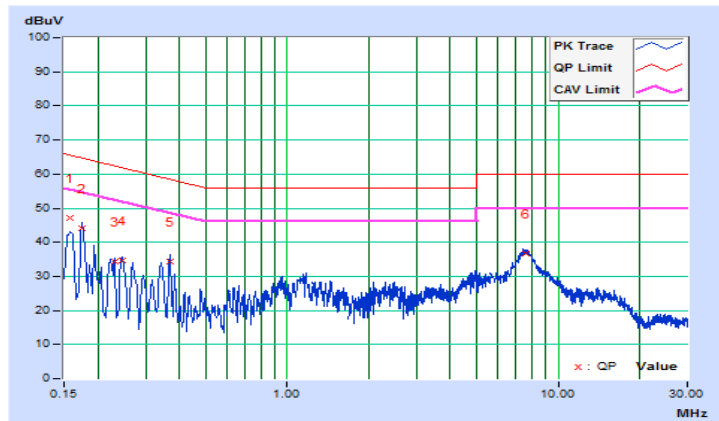


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	J		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15687	10.16	37.09	21.49	47.25	31.65	65.63
2	0.17384	10.18	34.09	19.84	44.27	30.02	64.77	54.77	-20.50	-24.75
3	0.22985	10.20	24.26	10.18	34.46	20.38	62.46	52.46	-28.00	-32.08
4	0.24485	10.21	24.37	10.17	34.58	20.38	61.93	51.93	-27.35	-31.55
5	0.36834	10.23	24.09	16.32	34.32	26.55	58.54	48.54	-24.22	-21.99
6	7.57000	10.55	26.01	19.57	36.56	30.12	60.00	50.00	-23.44	-19.88

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

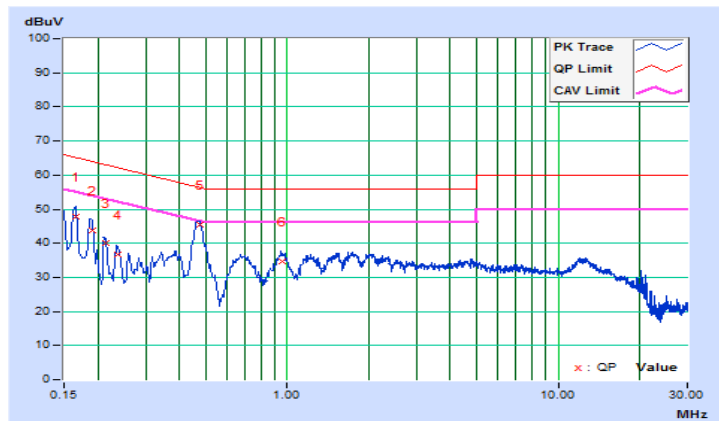


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	K		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.16535	10.41	37.47	23.30	47.88	33.71	65.19
2	0.19000	10.42	33.33	20.94	43.75	31.36	64.04	54.04	-20.29	-22.68
3	0.21400	10.44	29.55	17.91	39.99	28.35	63.05	53.05	-23.06	-24.70
4	0.23800	10.45	26.35	16.80	36.80	27.25	62.17	52.17	-25.37	-24.92
5	0.47434	10.50	34.91	30.25	45.41	40.75	56.44	46.44	-11.03	-5.69
6	0.95400	10.46	24.24	20.99	34.70	31.45	56.00	46.00	-21.30	-14.55

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

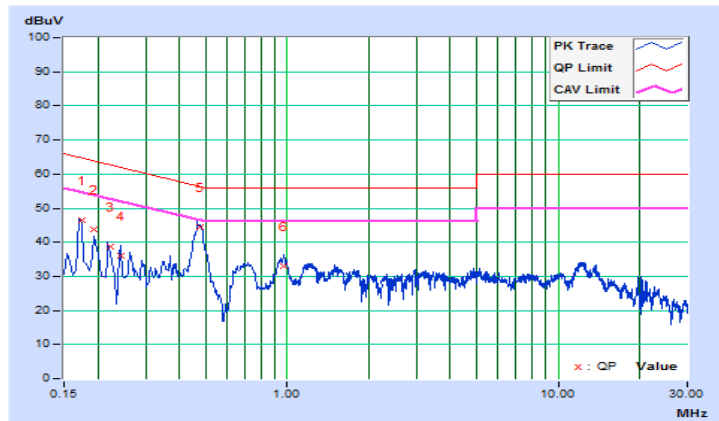


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	K		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.17400	10.18	36.33	22.28	46.51	32.46	64.77
2	0.19265	10.19	33.49	19.78	43.68	29.97	63.92	53.92	-20.24	-23.95
3	0.22200	10.20	28.61	14.29	38.81	24.49	62.74	52.74	-23.93	-28.25
4	0.24164	10.21	25.87	14.60	36.08	24.81	62.04	52.04	-25.96	-27.23
5	0.47434	10.23	34.36	29.53	44.59	39.76	56.44	46.44	-11.85	-6.68
6	0.96609	10.24	22.74	18.88	32.98	29.12	56.00	46.00	-23.02	-16.88

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

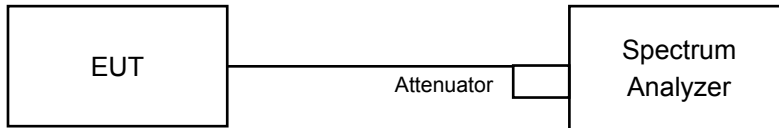


### 4.3 6dB Bandwidth Measurement

#### 4.3.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

#### 4.3.2 Test Setup



#### 4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.3.4 Test Procedure

- Set resolution bandwidth (RBW) = 100kHz.
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW, Detector = average.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 4.3.5 Deviation from Test Standard

No deviation.

#### 4.3.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



### 4.3.7 Test Result

Test Mode B

#### 802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	8.10	8.10	0.5	Pass
6	2437	8.09	8.10	0.5	Pass
11	2462	8.08	8.10	0.5	Pass

#### 802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.41	16.41	0.5	Pass
6	2437	16.40	16.40	0.5	Pass
11	2462	16.40	16.40	0.5	Pass

#### 802.11n (HT20)

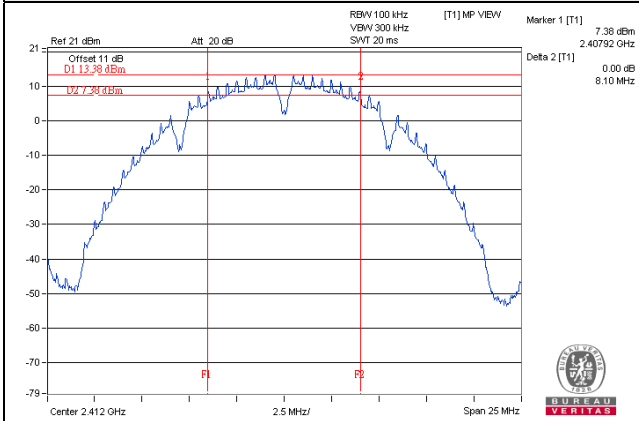
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	17.62	17.66	0.5	Pass
6	2437	17.63	17.64	0.5	Pass
11	2462	17.64	17.64	0.5	Pass

#### 802.11n (HT40)

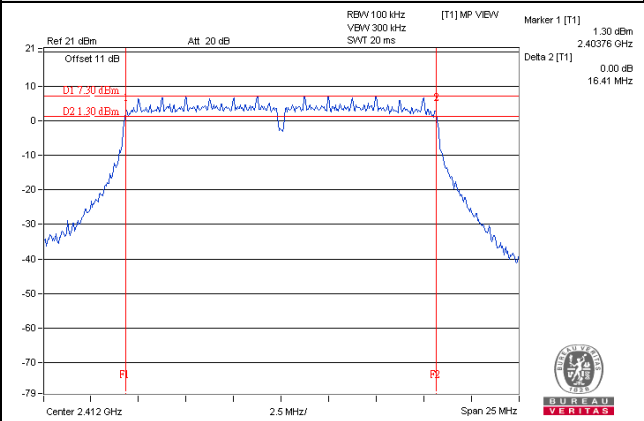
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	35.32	35.21	0.5	Pass
6	2437	35.49	35.23	0.5	Pass
9	2452	35.21	35.26	0.5	Pass

### Spectrum Plot of Worst Value

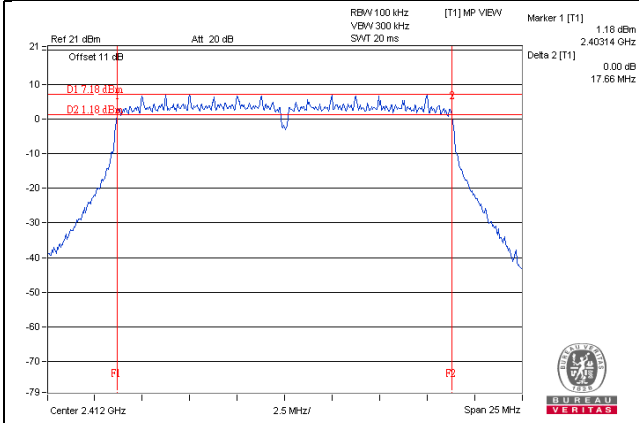
#### 802.11b



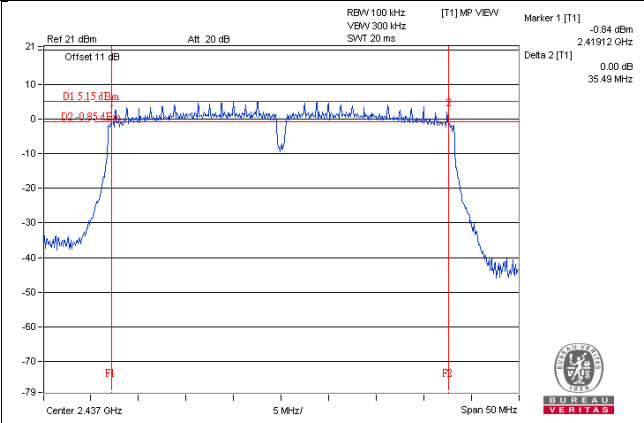
#### 802.11g



#### 802.11n (HT20)



#### 802.11n (HT40)



Test Mode C

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	8.10	8.11	0.5	Pass
6	2437	8.59	8.08	0.5	Pass
11	2462	8.10	8.10	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.39	16.42	0.5	Pass
6	2437	16.39	16.41	0.5	Pass
11	2462	16.40	16.41	0.5	Pass

802.11n (HT20)

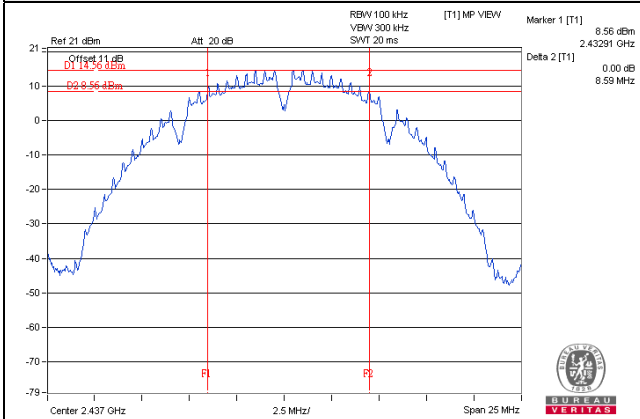
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	17.65	17.67	0.5	Pass
6	2437	17.61	17.63	0.5	Pass
11	2462	17.68	17.64	0.5	Pass

802.11n (HT40)

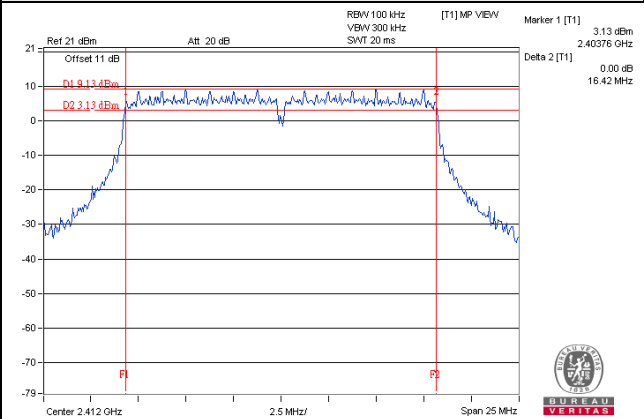
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	35.22	35.22	0.5	Pass
6	2437	35.19	35.25	0.5	Pass
9	2452	35.25	35.25	0.5	Pass

### Spectrum Plot of Worst Value

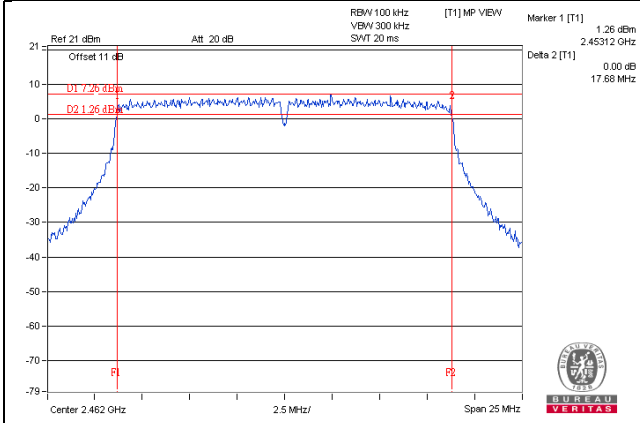
#### 802.11b



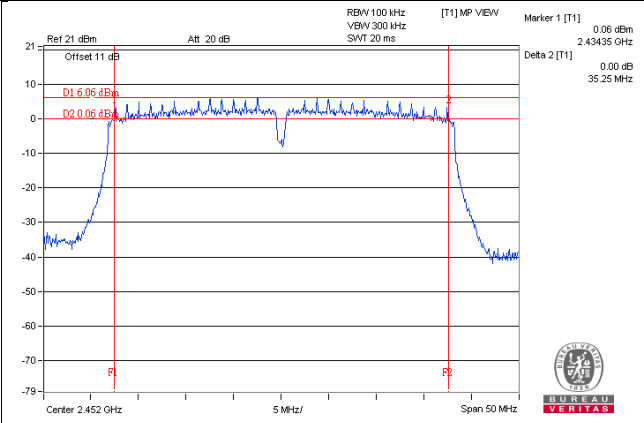
#### 802.11g



#### 802.11n (HT20)



#### 802.11n (HT40)



Test Mode E

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	8.10	8.11	0.5	Pass
6	2437	8.59	8.08	0.5	Pass
11	2462	8.10	8.10	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.39	16.42	0.5	Pass
6	2437	16.39	16.41	0.5	Pass
11	2462	16.40	16.41	0.5	Pass

802.11n (HT20)

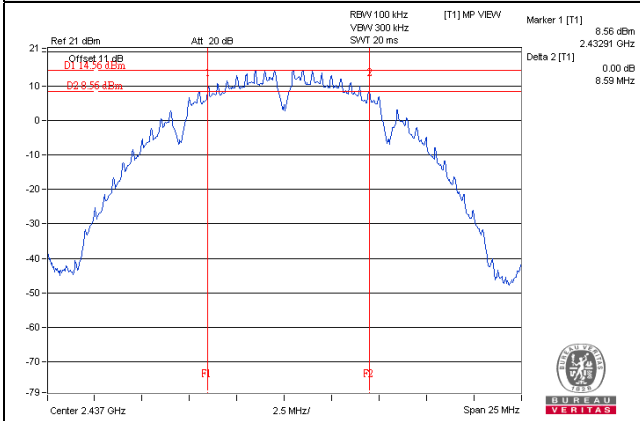
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	17.65	17.67	0.5	Pass
6	2437	17.61	17.63	0.5	Pass
11	2462	17.68	17.64	0.5	Pass

802.11n (HT40)

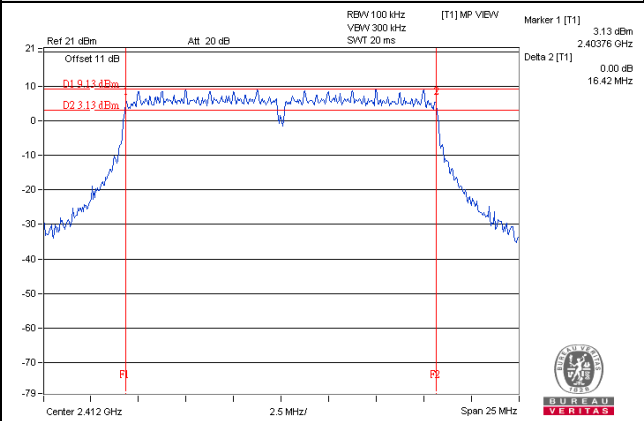
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	35.22	35.22	0.5	Pass
6	2437	35.19	35.25	0.5	Pass
9	2452	35.25	35.25	0.5	Pass

### Spectrum Plot of Worst Value

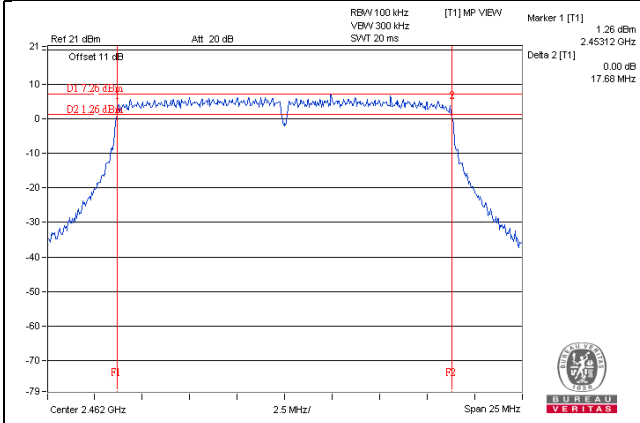
#### 802.11b



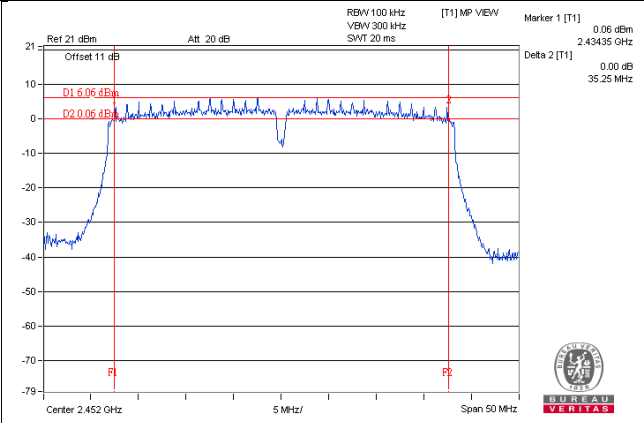
#### 802.11g



#### 802.11n (HT20)



#### 802.11n (HT40)



Test Mode G

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	8.10	8.10	0.5	Pass
6	2437	8.08	8.08	0.5	Pass
11	2462	8.11	8.08	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.40	16.43	0.5	Pass
6	2437	16.40	16.40	0.5	Pass
11	2462	16.40	16.42	0.5	Pass

802.11n (HT20)

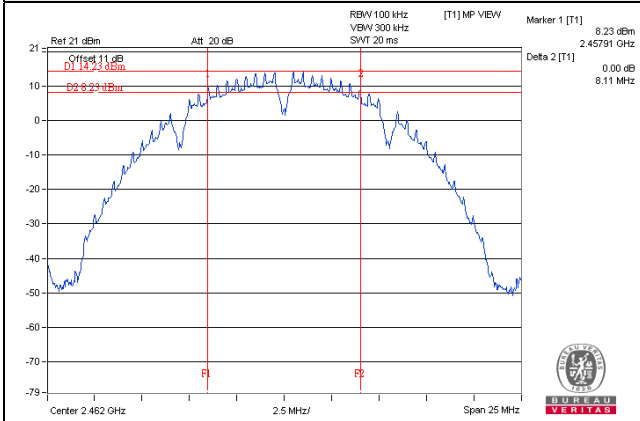
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	17.63	17.64	0.5	Pass
6	2437	17.63	17.63	0.5	Pass
11	2462	17.65	17.65	0.5	Pass

802.11n (HT40)

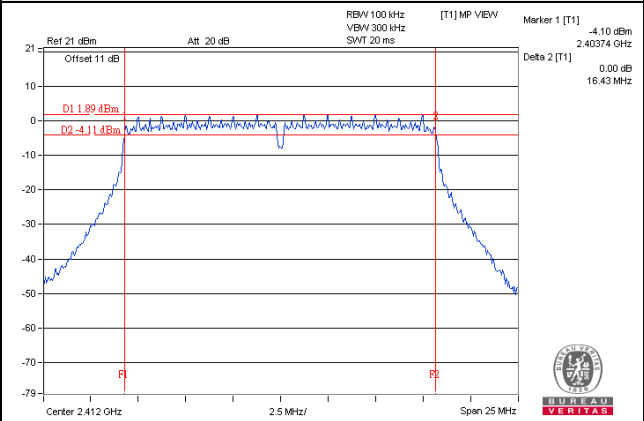
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	35.30	35.47	0.5	Pass
6	2437	35.25	35.33	0.5	Pass
9	2452	35.21	35.26	0.5	Pass

### Spectrum Plot of Worst Value

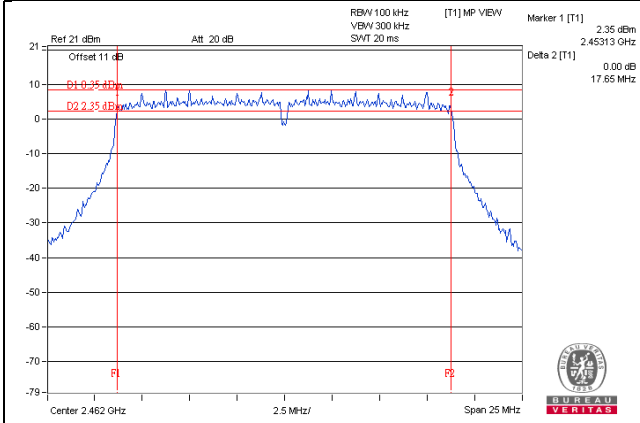
#### 802.11b



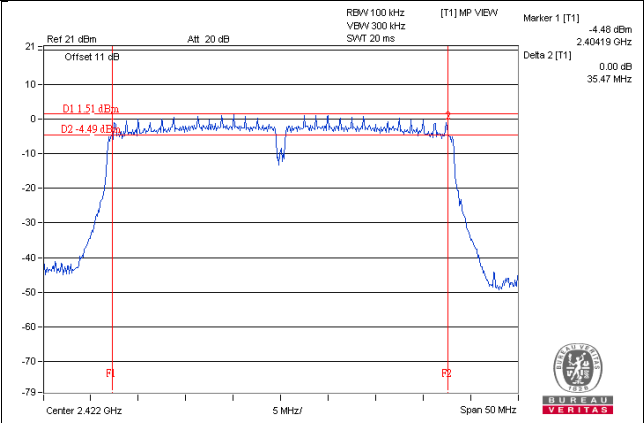
#### 802.11g



#### 802.11n (HT20)



#### 802.11n (HT40)





Test Mode I

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	8.58	8.09	0.5	Pass
6	2437	8.09	8.09	0.5	Pass
11	2462	8.12	8.10	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.40	16.42	0.5	Pass
6	2437	16.38	16.40	0.5	Pass
11	2462	16.39	16.41	0.5	Pass

802.11n (HT20)

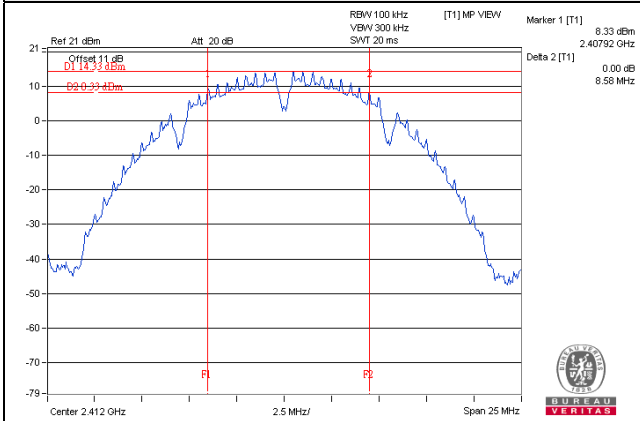
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	17.63	17.66	0.5	Pass
6	2437	17.61	17.63	0.5	Pass
11	2462	17.63	17.64	0.5	Pass

802.11n (HT40)

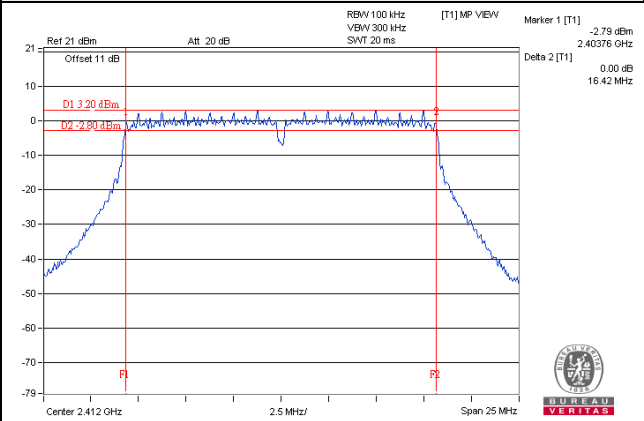
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	35.46	35.27	0.5	Pass
6	2437	35.20	35.21	0.5	Pass
9	2452	35.20	35.20	0.5	Pass

### Spectrum Plot of Worst Value

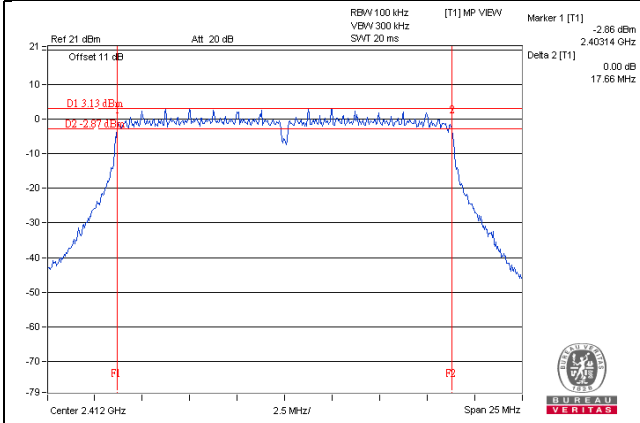
#### 802.11b



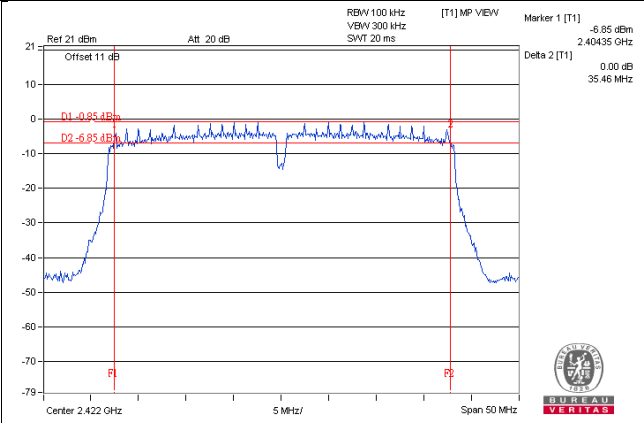
#### 802.11g



#### 802.11n (HT20)



#### 802.11n (HT40)



Test Mode K

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	8.09	8.09	0.5	Pass
6	2437	8.58	8.07	0.5	Pass
11	2462	8.10	8.10	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.40	16.41	0.5	Pass
6	2437	16.38	16.40	0.5	Pass
11	2462	16.40	16.41	0.5	Pass

802.11n (HT20)

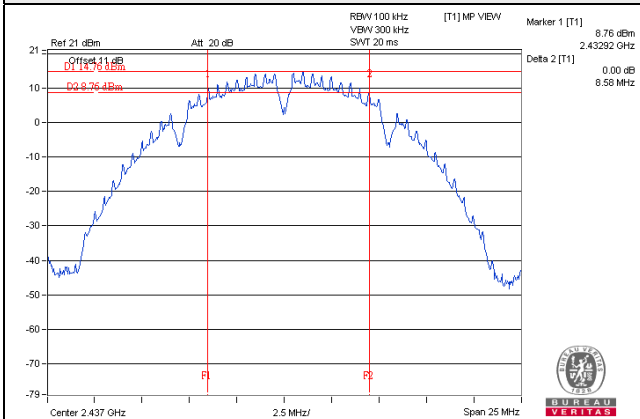
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	17.64	17.65	0.5	Pass
6	2437	17.61	17.62	0.5	Pass
11	2462	17.62	17.64	0.5	Pass

802.11n (HT40)

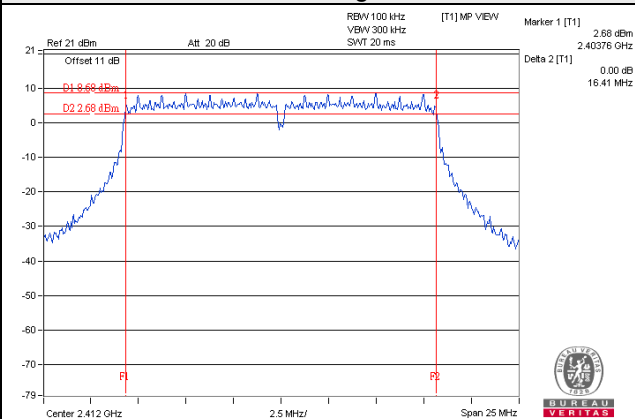
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	35.23	35.32	0.5	Pass
6	2437	35.18	35.39	0.5	Pass
9	2452	35.28	35.49	0.5	Pass

### Spectrum Plot of Worst Value

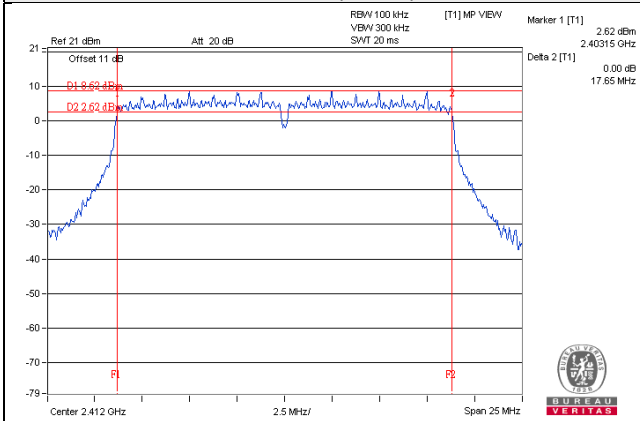
#### 802.11b



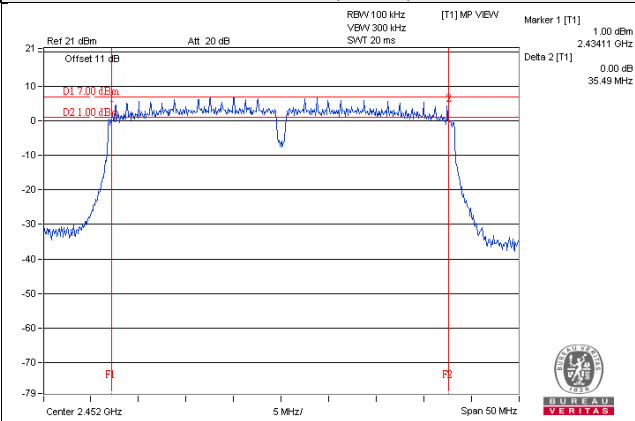
#### 802.11g



#### 802.11n (HT20)



#### 802.11n (HT40)



## 4.4 Conducted Output Power Measurement

### 4.4.1 Limits of Conducted Output Power Measurement

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

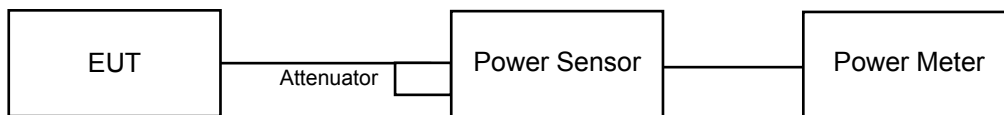
Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ ;

Array Gain = 0 dB (i.e., no array gain) for channel widths  $\geq 40$  MHz for any  $N_{ANT}$ ;

Array Gain =  $5 \log(N_{ANT}/N_{SS})$  dB or 3 dB, whichever is less for 20-MHz channel widths with  $N_{ANT} \geq 5$ .

For power measurements on all other devices: Array Gain =  $10 \log(N_{ANT}/N_{SS})$  dB.

### 4.4.2 Test Setup



### 4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.4.4 Test Procedures

An average power sensor was used on the output port of the EUT. A power meter was used to read the response of the average power sensor. Record the power level.

### 4.4.5 Deviation from Test Standard

No deviation.

### 4.4.6 EUT Operating Conditions

Same as item 4.3.6.

#### 4.4.7 Test Results

Test Mode B

CDD Mode

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	22.15	22.54	343.532	25.36	30.00	Pass
6	2437	21.99	22.60	340.095	25.32	30.00	Pass
11	2462	22.36	22.44	<b>347.575</b>	25.41	30.00	Pass

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	19.50	20.07	190.750	22.80	30.00	Pass
6	2437	21.91	22.46	331.437	25.20	30.00	Pass
11	2462	19.67	19.88	189.958	22.79	30.00	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	18.55	19.13	153.460	21.86	30.00	Pass
6	2437	21.94	22.53	335.376	25.26	30.00	Pass
11	2462	20.04	20.22	206.121	23.14	30.00	Pass

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	15.81	16.35	81.259	19.10	30.00	Pass
6	2437	19.64	20.45	202.962	23.07	30.00	Pass
9	2452	20.02	20.24	206.144	23.14	30.00	Pass

## Beamforming Mode

### 802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	15.54	16.12	76.736	18.85	29.82	Pass
6	2437	18.93	19.52	<b>167.880</b>	22.25	29.82	Pass
11	2462	17.03	17.21	103.039	20.13	29.82	Pass

Note: Directional gain =  $3.17\text{dBi} + 10\log(2) = 6.18\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30 - (6.18 - 6) = 29.82\text{dBm}$ .

### 802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	12.80	13.34	40.644	16.09	29.82	Pass
6	2437	16.63	17.44	101.391	20.06	29.82	Pass
9	2452	17.01	17.23	103.039	20.13	29.82	Pass

Note: Directional gain =  $3.17\text{dBi} + 10\log(2) = 6.18\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30 - (6.18 - 6) = 29.82\text{dBm}$ .

Test Mode C

CDD Mode

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	22.00	22.51	336.727	25.27	30.00	Pass
6	2437	21.88	22.64	<b>337.824</b>	25.29	30.00	Pass
11	2462	21.19	21.61	276.399	24.42	30.00	Pass

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	19.42	20.18	191.730	22.83	30.00	Pass
6	2437	21.76	22.55	329.855	25.18	30.00	Pass
11	2462	19.06	19.57	171.111	22.33	30.00	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	18.47	19.11	151.777	21.81	30.00	Pass
6	2437	21.80	22.63	334.587	25.25	30.00	Pass
11	2462	19.58	20.05	191.940	22.83	30.00	Pass

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	15.86	16.42	82.401	19.16	30.00	Pass
6	2437	19.52	20.56	203.299	23.08	30.00	Pass
9	2452	19.23	19.91	181.702	22.59	30.00	Pass



## Beamforming Mode

### 802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	15.46	16.10	75.858	18.80	28.99	Pass
6	2437	18.79	19.62	<b>167.494</b>	22.24	28.99	Pass
11	2462	16.57	17.04	95.940	19.82	28.99	Pass

Note: Directional gain =  $4\text{dBi} + 10\log(2) = 7.01\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30 - (7.01 - 6) = 28.99\text{dBm}$ .

### 802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	12.85	13.41	41.210	16.15	28.99	Pass
6	2437	16.51	17.55	101.625	20.07	28.99	Pass
9	2452	16.22	16.90	90.782	19.58	28.99	Pass

Note: Directional gain =  $4\text{dBi} + 10\log(2) = 7.01\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30 - (7.01 - 6) = 28.99\text{dBm}$ .

Test Mode E

CDD Mode

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	22.00	22.51	336.727	25.27	30.00	Pass
6	2437	21.88	22.64	<b>337.824</b>	25.29	30.00	Pass
11	2462	21.19	21.61	276.399	24.42	30.00	Pass

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	19.42	20.18	191.730	22.83	30.00	Pass
6	2437	21.76	22.55	329.855	25.18	30.00	Pass
11	2462	19.06	19.57	171.111	22.33	30.00	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	18.47	19.11	151.777	21.81	30.00	Pass
6	2437	21.80	22.63	334.587	25.25	30.00	Pass
11	2462	19.58	20.05	191.940	22.83	30.00	Pass

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	15.86	16.42	82.401	19.16	30.00	Pass
6	2437	19.52	20.56	203.299	23.08	30.00	Pass
9	2452	19.23	19.91	181.702	22.59	30.00	Pass

## Beamforming Mode

### 802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	15.46	16.10	75.858	18.80	26.99	Pass
6	2437	18.79	19.62	<b>167.494</b>	22.24	26.99	Pass
11	2462	16.57	17.04	95.940	19.82	26.99	Pass

Note: Directional gain =  $6\text{dBi} + 10\log(2) = 9.01\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30 - (9.01 - 6) = 26.99\text{dBm}$ .

### 802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	12.85	13.41	41.210	16.15	26.99	Pass
6	2437	16.51	17.55	101.625	20.07	26.99	Pass
9	2452	16.22	16.90	90.782	19.58	26.99	Pass

Note: Directional gain =  $6\text{dBi} + 10\log(2) = 9.01\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30 - (9.01 - 6) = 26.99\text{dBm}$ .

Test Mode G

CDD Mode

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	21.45	22.21	<b>305.978</b>	24.86	25.00	Pass
6	2437	21.34	22.13	299.449	24.76	25.00	Pass
11	2462	21.73	22.09	310.744	24.92	25.00	Pass

Note: Gain = 11dBi > 6dBi, so the power limit shall be reduced to  $30-(11-6) = 25.00\text{dBm}$ .

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	12.42	12.90	36.956	15.68	25.00	Pass
6	2437	21.24	22.01	291.900	24.65	25.00	Pass
11	2462	19.67	19.88	189.958	22.79	25.00	Pass

Note: Gain = 11dBi > 6dBi, so the power limit shall be reduced to  $30-(11-6) = 25.00\text{dBm}$ .

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	12.42	12.98	37.319	15.72	25.00	Pass
6	2437	21.21	22.15	296.189	24.72	25.00	Pass
11	2462	19.58	20.05	191.940	22.83	25.00	Pass

Note: Gain = 11dBi > 6dBi, so the power limit shall be reduced to  $30-(11-6) = 25.00\text{dBm}$ .

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	13.97	14.66	54.188	17.34	25.00	Pass
6	2437	17.63	18.31	125.707	20.99	25.00	Pass
9	2452	18.74	19.23	158.570	22.00	25.00	Pass

Note: Gain = 11dBi > 6dBi, so the power limit shall be reduced to  $30-(11-6) = 25.00\text{dBm}$ .

## Beamforming Mode

### 802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	12.42	12.98	37.319	15.72	25.00	Pass
6	2437	21.21	22.15	<b>296.189</b>	24.72	25.00	Pass
11	2462	19.58	20.05	191.940	22.83	25.00	Pass

Note:

1. This antenna was cross-polarized antenn.
2. Gain = 11dBi > 6dBi, so the power limit shall be reduced to  $30-(11-6) = 25.00\text{dBm}$ .

### 802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	13.97	14.66	54.188	17.34	25.00	Pass
6	2437	17.63	18.31	125.707	20.99	25.00	Pass
9	2452	18.74	19.23	158.570	22.00	25.00	Pass

Note:

1. This antenna was cross-polarized antenn.
2. Gain = 11dBi > 6dBi, so the power limit shall be reduced to  $30-(11-6) = 25.00\text{dBm}$ .

Test Mode I

CDD Mode

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	21.95	22.41	<b>330.856</b>	25.20	28.20	Pass
6	2437	21.34	22.13	299.449	24.76	28.20	Pass
11	2462	20.16	20.40	213.401	23.29	28.20	Pass

Note: Gain = 7.8dBi > 6dBi, so the power limit shall be reduced to  $30-(7.8-6) = 28.20\text{dBm}$ .

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	13.59	13.95	47.687	16.78	28.20	Pass
6	2437	21.79	22.33	322.010	25.08	28.20	Pass
11	2462	18.08	18.32	132.189	21.21	28.20	Pass

Note: Gain = 7.8dBi > 6dBi, so the power limit shall be reduced to  $30-(7.8-6) = 28.20\text{dBm}$ .

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	13.60	13.98	47.912	16.80	28.20	Pass
6	2437	21.77	22.37	322.898	25.09	28.20	Pass
11	2462	17.05	17.21	103.301	20.14	28.20	Pass

Note: Gain = 7.8dBi > 6dBi, so the power limit shall be reduced to  $30-(7.8-6) = 28.20\text{dBm}$ .

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	12.88	13.30	40.789	16.11	28.20	Pass
6	2437	16.49	17.43	99.901	20.00	28.20	Pass
9	2452	13.47	13.66	45.460	16.58	28.20	Pass

Note: Gain = 7.8dBi > 6dBi, so the power limit shall be reduced to  $30-(7.8-6) = 28.20\text{dBm}$ .

## Beamforming Mode

### 802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	10.59	10.97	23.933	13.79	25.19	Pass
6	2437	18.76	19.36	<b>161.436</b>	22.08	25.19	Pass
11	2462	14.04	14.20	51.642	17.13	25.19	Pass

Note: Directional gain =  $7.8\text{dBi} + 10\log(2) = 10.81\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30 - (10.81 - 6) = 25.19\text{dBm}$ .

### 802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	9.87	10.29	20.417	13.10	25.19	Pass
6	2437	13.48	14.42	50.003	16.99	25.19	Pass
9	2452	10.46	10.65	22.751	13.57	25.19	Pass

Note: Directional gain =  $7.8\text{dBi} + 10\log(2) = 10.81\text{dBi} > 6\text{dBi}$ , so the power limit shall be reduced to  $30 - (10.81 - 6) = 25.19\text{dBm}$ .

Test Mode K

CDD Mode

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	22.08	22.75	349.801	25.44	30.00	Pass
6	2437	22.04	22.74	347.888	25.41	30.00	Pass
11	2462	22.38	22.73	<b>360.481</b>	25.57	30.00	Pass

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	18.88	19.53	167.011	22.23	30.00	Pass
6	2437	21.73	22.57	329.653	25.18	30.00	Pass
11	2462	20.56	20.91	237.073	23.75	30.00	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	18.89	19.63	169.279	22.29	30.00	Pass
6	2437	21.89	22.66	339.027	25.30	30.00	Pass
11	2462	20.56	20.98	239.077	23.79	30.00	Pass

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	15.60	16.32	79.163	18.99	30.00	Pass
6	2437	19.01	19.85	176.221	22.46	30.00	Pass
9	2452	19.36	19.83	182.459	22.61	30.00	Pass



## Beamforming Mode

### 802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	15.88	16.62	84.723	19.28	27.99	Pass
6	2437	18.88	19.65	<b>169.434</b>	22.29	27.99	Pass
11	2462	17.55	17.97	119.674	20.78	27.99	Pass

Note: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi, so the power limit shall be reduced to 30-(8.01-6) = 27.99dBm.

### 802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	12.59	13.31	39.628	15.98	27.99	Pass
6	2437	16.00	16.84	88.105	19.45	27.99	Pass
9	2452	16.35	16.82	91.201	19.60	27.99	Pass

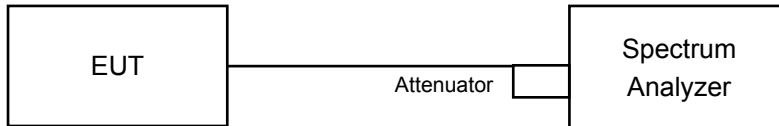
Note: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi, so the power limit shall be reduced to 30-(8.01-6) = 27.99dBm.

## 4.5 Power Spectral Density Measurement

### 4.5.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8dBm.

### 4.5.2 Test Setup



### 4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.5.4 Test Procedure

For Average Power (Duty cycle  $\geq 98\%$ )

- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- Set VBW  $\geq 3 \times \text{RBW}$ .
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep  $\geq 2 \times \text{span}/\text{RBW}$ .
- Sweep time = auto couple.
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.

For Average Power (Duty cycle  $< 98\%$ )

- Measure the duty cycle (x).
- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- Set VBW  $\geq 3 \times \text{RBW}$ .
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep  $\geq 2 \times \text{span}/\text{RBW}$ .
- Sweep time = auto couple.
- Do not use sweep triggering. Allow sweep to "free run".
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.
- Add  $10 \log (1/x)$ , where x is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time.

#### **4.5.5 Deviation from Test Standard**

No deviation.

#### **4.5.6 EUT Operating Condition**

Same as item 4.3.6

#### 4.5.7 Test Results

##### Test Mode B

##### 802.11b

TX chain	Channel	Frequency (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-6.50	3.01	-3.49	7.82	Pass
	6	2437	-5.98	3.01	-2.97	7.82	Pass
	11	2462	-6.21	3.01	-3.20	7.82	Pass
1	1	2412	-5.43	3.01	-2.42	7.82	Pass
	6	2437	-5.39	3.01	-2.38	7.82	Pass
	11	2462	-5.55	3.01	-2.54	7.82	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $3.17\text{dBi} + 10\log(2) = 6.18\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $8-(6.18-6) = 7.82\text{dBm}$ .

##### 802.11g

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-11.98	3.01	0.19	-8.78	7.82	Pass
	6	2437	-9.90	3.01	0.19	-6.70	7.82	Pass
	11	2462	-10.92	3.01	0.19	-7.72	7.82	Pass
1	1	2412	-10.98	3.01	0.19	-7.78	7.82	Pass
	6	2437	-8.37	3.01	0.19	-5.17	7.82	Pass
	11	2462	-11.00	3.01	0.19	-7.80	7.82	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $3.17\text{dBi} + 10\log(2) = 6.18\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $8-(6.18-6) = 7.82\text{dBm}$ .
- Refer to section 3.3 for duty cycle spectrum plot.

### 802.11n (HT20)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-13.28	3.01	0.11	-10.16	7.82	Pass
	6	2437	-9.77	3.01	0.11	-6.65	7.82	Pass
	11	2462	-11.93	3.01	0.11	-8.81	7.82	Pass
1	1	2412	-12.35	3.01	0.11	-9.23	7.82	Pass
	6	2437	-8.89	3.01	0.11	-5.77	7.82	Pass
	11	2462	-11.00	3.01	0.11	-7.88	7.82	Pass

**Note:**

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $3.17\text{dBi} + 10\log(2) = 6.18\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $8-(6.18-6) = 7.82\text{dBm}$ .
- Refer to section 3.3 for duty cycle spectrum plot.

### 802.11n (HT40)

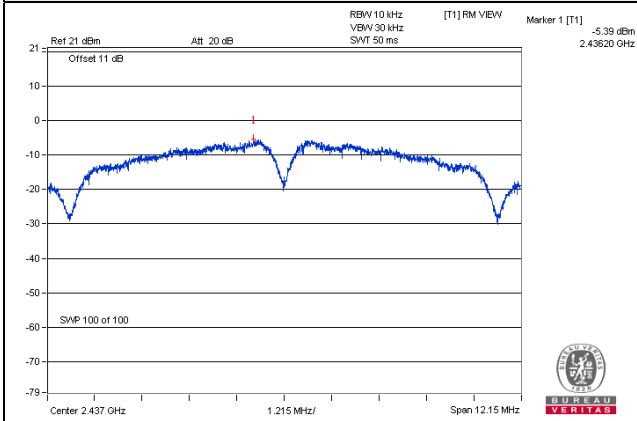
TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	3	2422	-18.46	3.01	0.19	-15.26	7.82	Pass
	6	2437	-14.40	3.01	0.19	-11.20	7.82	Pass
	9	2452	-14.10	3.01	0.19	-10.90	7.82	Pass
1	3	2422	-17.29	3.01	0.19	-14.09	7.82	Pass
	6	2437	-10.85	3.01	0.19	-7.65	7.82	Pass
	9	2452	-13.57	3.01	0.19	-10.37	7.82	Pass

**Note:**

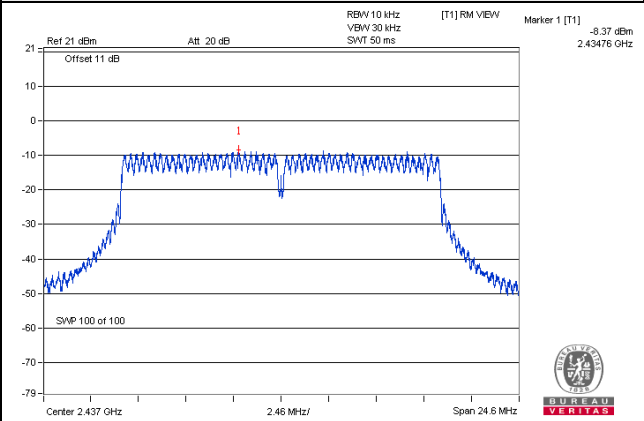
- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $3.17\text{dBi} + 10\log(2) = 6.18\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $8-(6.18-6) = 7.82\text{dBm}$ .
- Refer to section 3.3 for duty cycle spectrum plot.

### Spectrum Plot of Worst Value

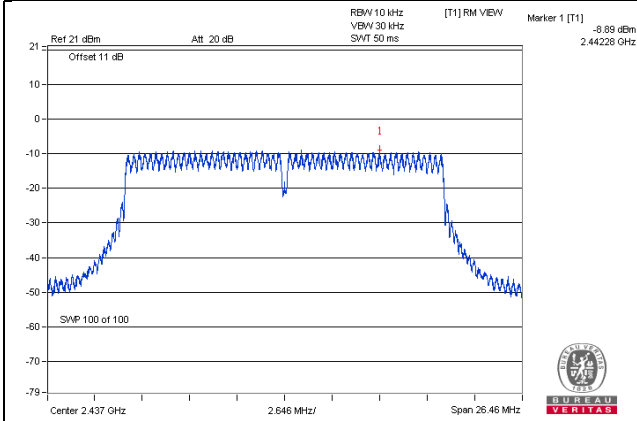
#### 802.11b



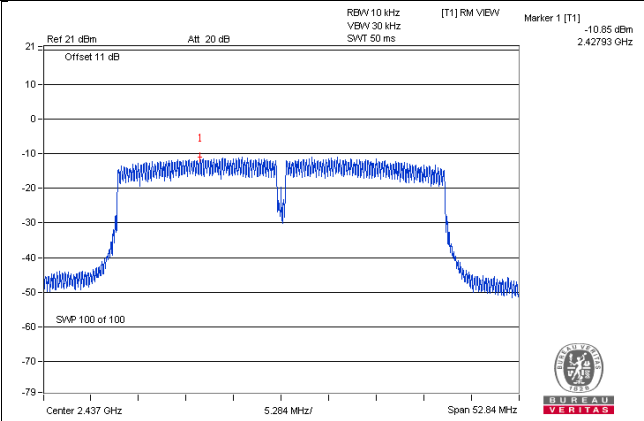
#### 802.11g



#### 802.11n (HT20)



#### 802.11n (HT40)



Test Mode C

802.11b

TX chain	Channel	Frequency (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-4.77	3.01	-1.76	6.99	Pass
	6	2437	-5.24	3.01	-2.23	6.99	Pass
	11	2462	-6.62	3.01	-3.61	6.99	Pass
1	1	2412	-4.70	3.01	-1.69	6.99	Pass
	6	2437	-4.30	3.01	-1.29	6.99	Pass
	11	2462	-5.03	3.01	-2.02	6.99	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 4dBi + 10log(2) = 7.01dBi > 6dBi, so the power density limit shall be reduced to 8-(7.01-6) = 6.99dBm.

802.11g

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-10.84	3.01	0.23	-7.60	6.99	Pass
	6	2437	-8.49	3.01	0.23	-5.25	6.99	Pass
	11	2462	-11.57	3.01	0.23	-8.33	6.99	Pass
1	1	2412	-10.74	3.01	0.23	-7.50	6.99	Pass
	6	2437	-7.90	3.01	0.23	-4.66	6.99	Pass
	11	2462	-10.25	3.01	0.23	-7.01	6.99	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 4dBi + 10log(2) = 7.01dBi > 6dBi, so the power density limit shall be reduced to 8-(7.01-6) = 6.99dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

### 802.11n (HT20)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-12.18	3.01	0.10	-9.07	6.99	Pass
	6	2437	-8.54	3.01	0.10	-5.43	6.99	Pass
	11	2462	-11.32	3.01	0.10	-8.21	6.99	Pass
1	1	2412	-11.85	3.01	0.10	-8.74	6.99	Pass
	6	2437	-7.84	3.01	0.10	-4.73	6.99	Pass
	11	2462	-10.52	3.01	0.10	-7.41	6.99	Pass

**Note:**

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $4\text{dBi} + 10\log(2) = 7.01\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $8-(7.01-6) = 6.99\text{dBm}$ .
- Refer to section 3.3 for duty cycle spectrum plot.

### 802.11n (HT40)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	3	2422	-18.18	3.01	0.19	-14.98	6.99	Pass
	6	2437	-14.15	3.01	0.19	-10.95	6.99	Pass
	9	2452	-14.56	3.01	0.19	-11.36	6.99	Pass
1	3	2422	-17.26	3.01	0.19	-14.06	6.99	Pass
	6	2437	-13.04	3.01	0.19	-9.84	6.99	Pass
	9	2452	-13.38	3.01	0.19	-10.18	6.99	Pass

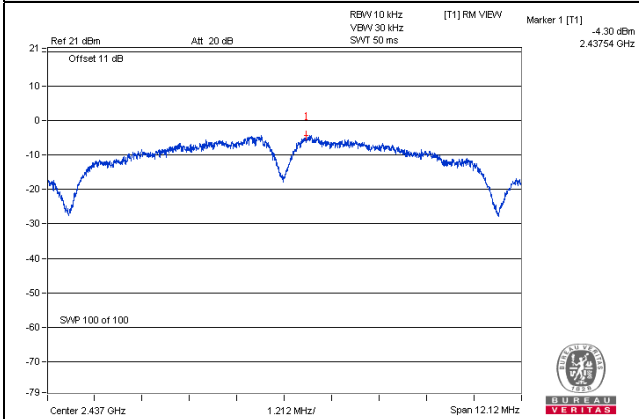
**Note:**

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $4\text{dBi} + 10\log(2) = 7.01\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $8-(7.01-6) = 6.99\text{dBm}$ .
- Refer to section 3.3 for duty cycle spectrum plot.

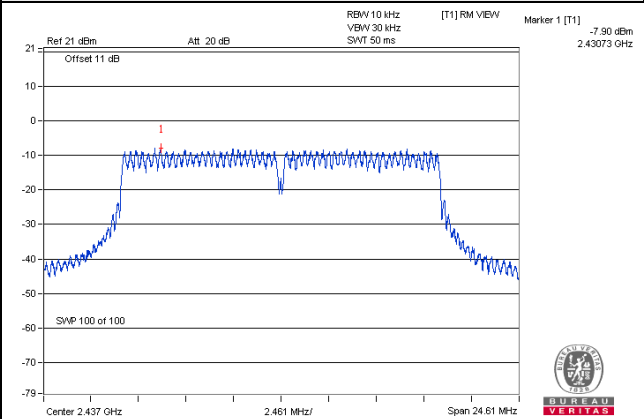


Spectrum Plot of Worst Value

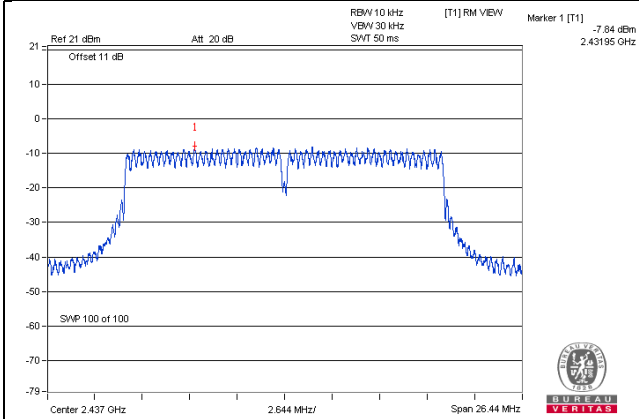
802.11b



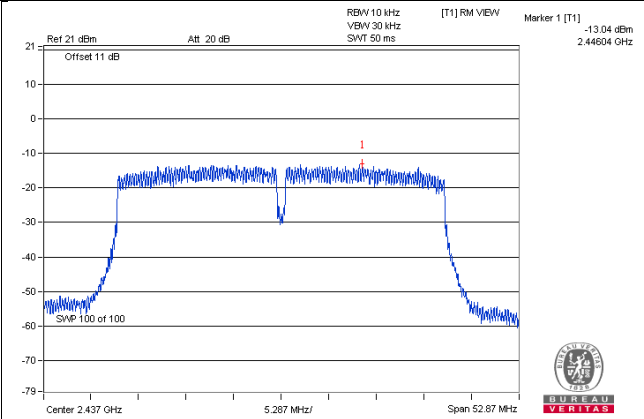
802.11g



802.11n (HT20)



802.11n (HT40)



Test Mode E

802.11b

TX chain	Channel	Frequency (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-4.77	3.01	-1.76	4.99	Pass
	6	2437	-5.24	3.01	-2.23	4.99	Pass
	11	2462	-6.62	3.01	-3.61	4.99	Pass
1	1	2412	-4.70	3.01	-1.69	4.99	Pass
	6	2437	-4.30	3.01	-1.29	4.99	Pass
	11	2462	-5.03	3.01	-2.02	4.99	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 8-(9.01-6) = 4.99dBm.

802.11g

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-10.84	3.01	0.23	-7.60	4.99	Pass
	6	2437	-8.49	3.01	0.23	-5.25	4.99	Pass
	11	2462	-11.57	3.01	0.23	-8.33	4.99	Pass
1	1	2412	-10.74	3.01	0.23	-7.50	4.99	Pass
	6	2437	-7.90	3.01	0.23	-4.66	4.99	Pass
	11	2462	-10.25	3.01	0.23	-7.01	4.99	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 8-(9.01-6) = 4.99dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

### 802.11n (HT20)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-12.18	3.01	0.10	-9.07	4.99	Pass
	6	2437	-8.54	3.01	0.10	-5.43	4.99	Pass
	11	2462	-11.32	3.01	0.10	-8.21	4.99	Pass
1	1	2412	-11.85	3.01	0.10	-8.74	4.99	Pass
	6	2437	-7.84	3.01	0.10	-4.73	4.99	Pass
	11	2462	-10.52	3.01	0.10	-7.41	4.99	Pass

**Note:**

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $6\text{dBi} + 10\log(2) = 9.01\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $8 - (9.01 - 6) = 4.99\text{dBm}$ .
- Refer to section 3.3 for duty cycle spectrum plot.

### 802.11n (HT40)

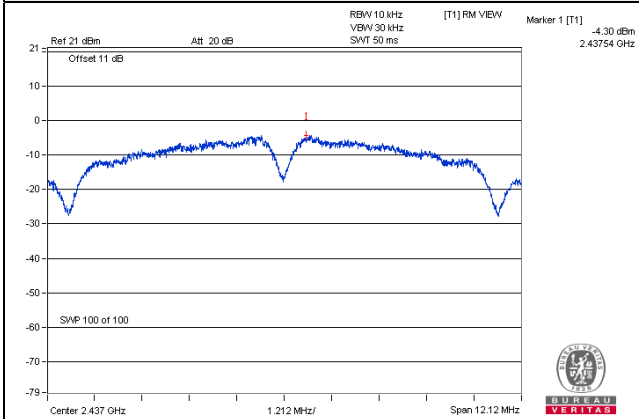
TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	3	2422	-18.18	3.01	0.19	-14.98	4.99	Pass
	6	2437	-14.15	3.01	0.19	-10.95	4.99	Pass
	9	2452	-14.56	3.01	0.19	-11.36	4.99	Pass
1	3	2422	-17.26	3.01	0.19	-14.06	4.99	Pass
	6	2437	-13.04	3.01	0.19	-9.84	4.99	Pass
	9	2452	-13.38	3.01	0.19	-10.18	4.99	Pass

**Note:**

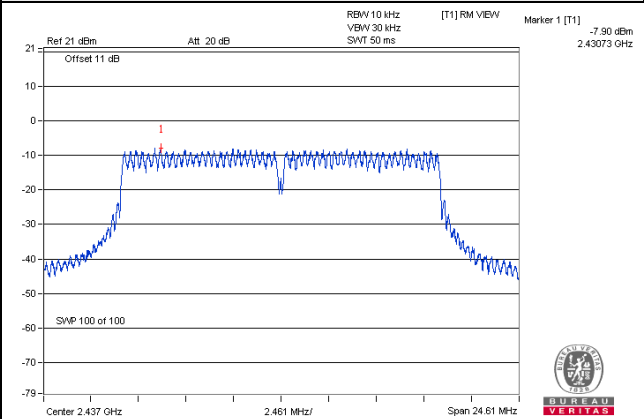
- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $6\text{dBi} + 10\log(2) = 9.01\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $8 - (9.01 - 6) = 4.99\text{dBm}$ .
- Refer to section 3.3 for duty cycle spectrum plot.

### Spectrum Plot of Worst Value

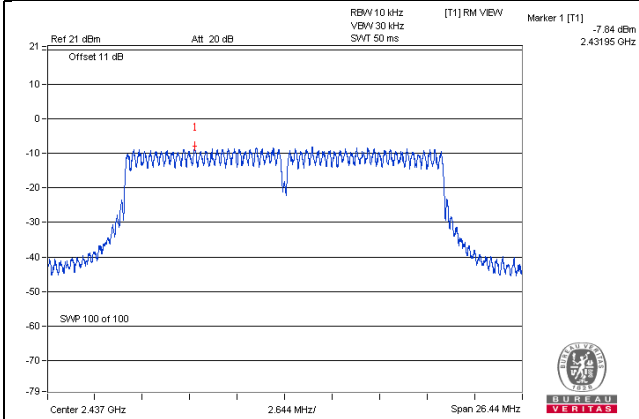
802.11b



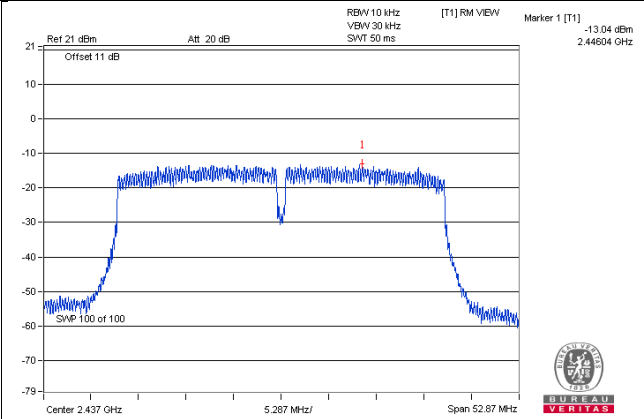
802.11g



802.11n (HT20)



802.11n (HT40)



Test Mode G

802.11b

TX chain	Channel	Frequency (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-5.44	3.01	-2.43	3.00	Pass
	6	2437	-5.69	3.01	-2.68	3.00	Pass
	11	2462	-5.43	3.01	-2.42	3.00	Pass
1	1	2412	-4.75	3.01	-1.74	3.00	Pass
	6	2437	-4.33	3.01	-1.32	3.00	Pass
	11	2462	-4.17	3.01	-1.16	3.00	Pass

Note:

1. This antenna was cross-polarized antenn.
2. Gain = 11dBi > 6dBi, so the power density limit shall be reduced to  $8-(11-6) = 3\text{dBm}$ .

802.11g

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-17.75	3.01	0.19	-14.55	3.00	Pass
	6	2437	-8.79	3.01	0.19	-5.59	3.00	Pass
	11	2462	-10.56	3.01	0.19	-7.36	3.00	Pass
1	1	2412	-17.18	3.01	0.19	-13.98	3.00	Pass
	6	2437	-7.61	3.01	0.19	-4.41	3.00	Pass
	11	2462	-9.32	3.01	0.19	-6.12	3.00	Pass

Note:

1. This antenna was cross-polarized antenn.
2. Gain = 11dBi > 6dBi, so the power density limit shall be reduced to  $8-(11-6) = 3\text{dBm}$ .
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Channel	Frequency (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-17.93	3.01	-14.92	3.00	Pass
	6	2437	-9.06	3.01	-6.05	3.00	Pass
	11	2462	-10.76	3.01	-7.75	3.00	Pass
1	1	2412	-17.67	3.01	-14.66	3.00	Pass
	6	2437	-8.62	3.01	-5.61	3.00	Pass
	11	2462	-9.88	3.01	-6.87	3.00	Pass

Note:

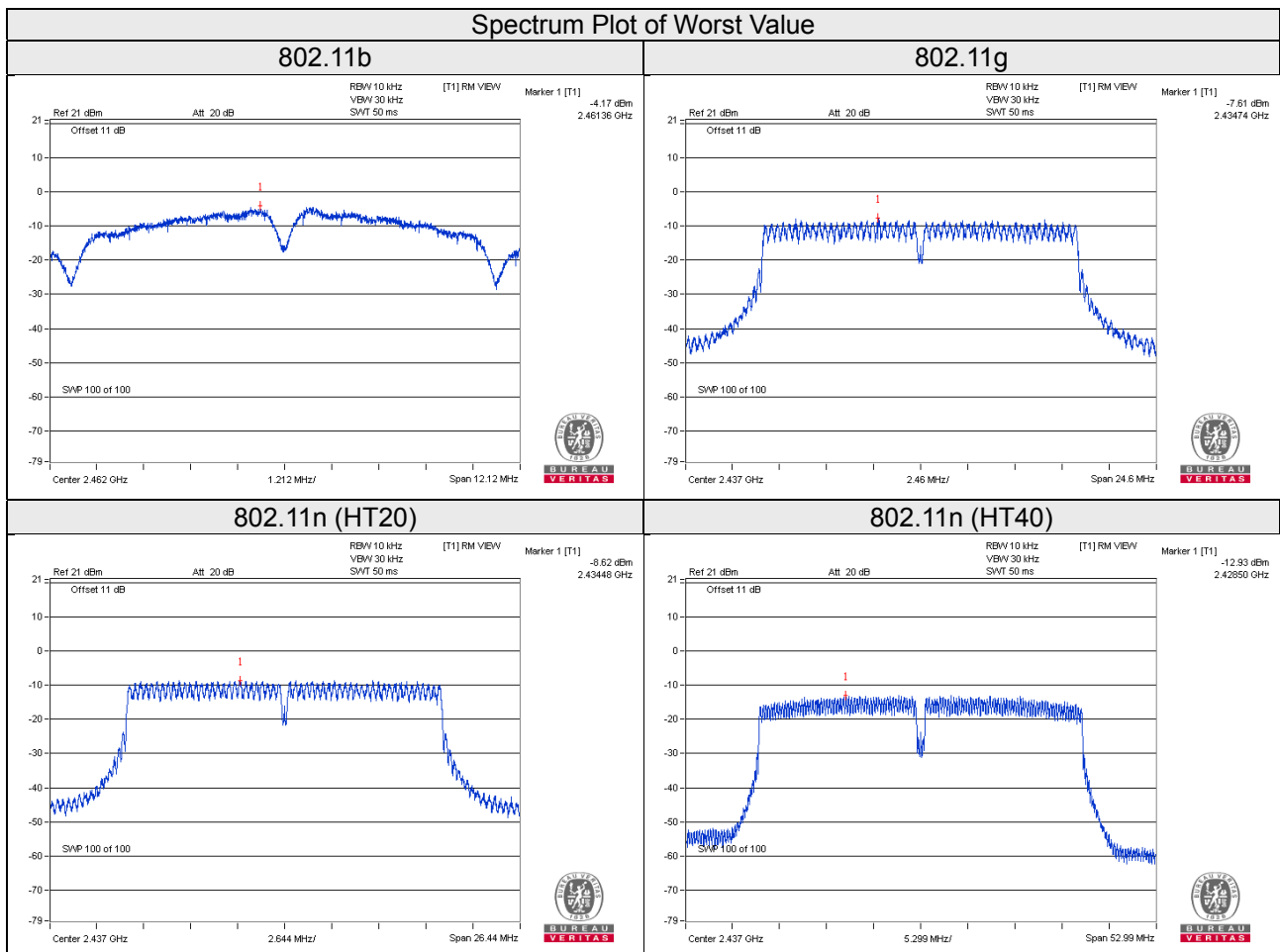
1. This antenna was cross-polarized antenn.
2. Gain = 11dBi > 6dBi, so the power density limit shall be reduced to  $8-(11-6) = 3\text{dBm}$ .

### 802.11n (HT40)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	3	2422	-18.96	3.01	0.16	-15.79	3.00	Pass
	6	2437	-13.29	3.01	0.16	-10.12	3.00	Pass
	9	2452	-14.16	3.01	0.16	-10.99	3.00	Pass
1	3	2422	-17.69	3.01	0.16	-14.52	3.00	Pass
	6	2437	-12.93	3.01	0.16	-9.76	3.00	Pass
	9	2452	-13.06	3.01	0.16	-9.89	3.00	Pass

**Note:**

1. This antenna was cross-polarized antenna.
2. Gain = 11dBi > 6dBi, so the power density limit shall be reduced to  $8-(11-6) = 3\text{dBm}$ .
3. Refer to section 3.3 for duty cycle spectrum plot.



Test Mode I

802.11b

TX chain	Channel	Frequency (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-5.19	3.01	-2.18	3.19	Pass
	6	2437	-5.59	3.01	-2.58	3.19	Pass
	11	2462	-7.79	3.01	-4.78	3.19	Pass
1	1	2412	-4.89	3.01	-1.88	3.19	Pass
	6	2437	-4.71	3.01	-1.70	3.19	Pass
	11	2462	-6.78	3.01	-3.77	3.19	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $7.8\text{dBi} + 10\log(2) = 10.81\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $8 - (10.81 - 6) = 3.19\text{dBm}$ .

802.11g

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-17.17	3.01	0.22	-13.94	3.19	Pass
	6	2437	-8.53	3.01	0.22	-5.30	3.19	Pass
	11	2462	-13.05	3.01	0.22	-9.82	3.19	Pass
1	1	2412	-16.18	3.01	0.22	-12.95	3.19	Pass
	6	2437	-7.61	3.01	0.22	-4.38	3.19	Pass
	11	2462	-11.44	3.01	0.22	-8.21	3.19	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $7.8\text{dBi} + 10\log(2) = 10.81\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $8 - (10.81 - 6) = 3.19\text{dBm}$ .
- Refer to section 3.3 for duty cycle spectrum plot.

### 802.11n (HT20)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-17.65	3.01	0.10	-14.54	3.19	Pass
	6	2437	-8.86	3.01	0.10	-5.75	3.19	Pass
	11	2462	-13.67	3.01	0.10	-10.56	3.19	Pass
1	1	2412	-16.49	3.01	0.10	-13.38	3.19	Pass
	6	2437	-8.09	3.01	0.10	-4.98	3.19	Pass
	11	2462	-12.57	3.01	0.10	-9.46	3.19	Pass

**Note:**

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $7.8\text{dBi} + 10\log(2) = 10.81\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $8 - (10.81 - 6) = 3.19\text{dBm}$ .
- Refer to section 3.3 for duty cycle spectrum plot.

### 802.11n (HT40)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	3	2422	-21.20	3.01	0.19	-18.00	3.19	Pass
	6	2437	-17.10	3.01	0.19	-13.90	3.19	Pass
	9	2452	-21.02	3.01	0.19	-17.82	3.19	Pass
1	3	2422	-20.08	3.01	0.19	-16.88	3.19	Pass
	6	2437	-16.08	3.01	0.19	-12.88	3.19	Pass
	9	2452	-19.00	3.01	0.19	-15.80	3.19	Pass

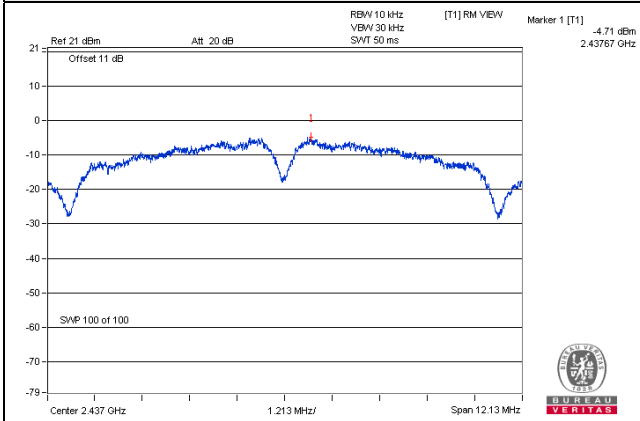
**Note:**

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $7.8\text{dBi} + 10\log(2) = 10.81\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $8 - (10.81 - 6) = 3.19\text{dBm}$ .
- Refer to section 3.3 for duty cycle spectrum plot.

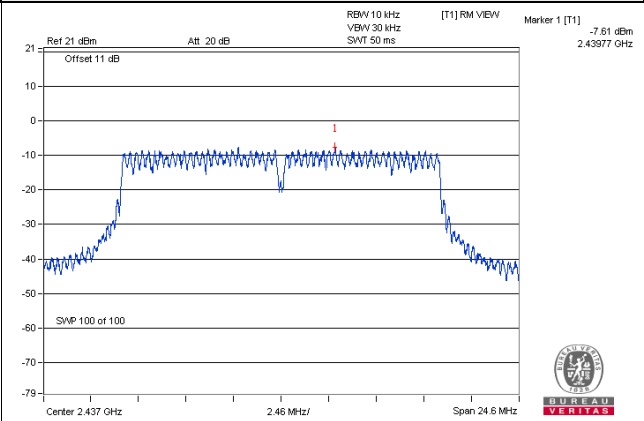


### Spectrum Plot of Worst Value

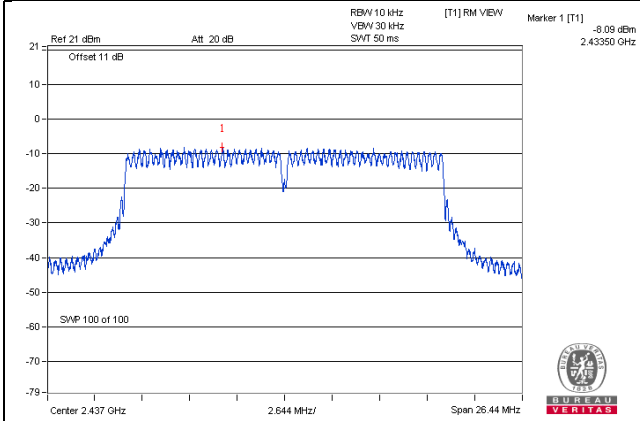
#### 802.11b



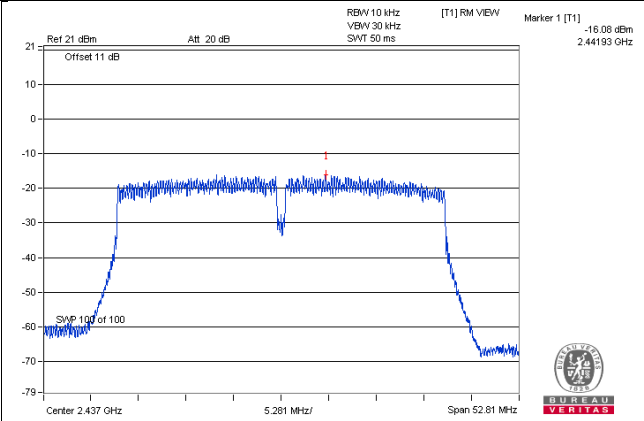
#### 802.11g



#### 802.11n (HT20)



#### 802.11n (HT40)



Test Mode K

802.11b

TX chain	Channel	Frequency (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-5.27	3.01	-2.26	5.99	Pass
	6	2437	-5.49	3.01	-2.48	5.99	Pass
	11	2462	-5.37	3.01	-2.36	5.99	Pass
1	1	2412	-4.86	3.01	-1.85	5.99	Pass
	6	2437	-4.52	3.01	-1.51	5.99	Pass
	11	2462	-4.11	3.01	-1.10	5.99	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi, so the power density limit shall be reduced to 8-(8.01-6) = 5.99dBm.

802.11g

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-11.51	3.01	0.20	-8.30	5.99	Pass
	6	2437	-8.90	3.01	0.20	-5.69	5.99	Pass
	11	2462	-10.31	3.01	0.20	-7.10	5.99	Pass
1	1	2412	-11.04	3.01	0.20	-7.83	5.99	Pass
	6	2437	-7.94	3.01	0.20	-4.73	5.99	Pass
	11	2462	-9.25	3.01	0.20	-6.04	5.99	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi, so the power density limit shall be reduced to 8-(8.01-6) = 5.99dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

### 802.11n (HT20)

TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	1	2412	-11.83	3.01	0.10	-8.72	5.99	Pass
	6	2437	-8.76	3.01	0.10	-5.65	5.99	Pass
	11	2462	-10.35	3.01	0.10	-7.24	5.99	Pass
1	1	2412	-11.55	3.01	0.10	-8.44	5.99	Pass
	6	2437	-7.57	3.01	0.10	-4.46	5.99	Pass
	11	2462	-9.34	3.01	0.10	-6.23	5.99	Pass

**Note:**

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $5\text{dBi} + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $8 - (8.01 - 6) = 5.99\text{dBm}$ .
- Refer to section 3.3 for duty cycle spectrum plot.

### 802.11n (HT40)

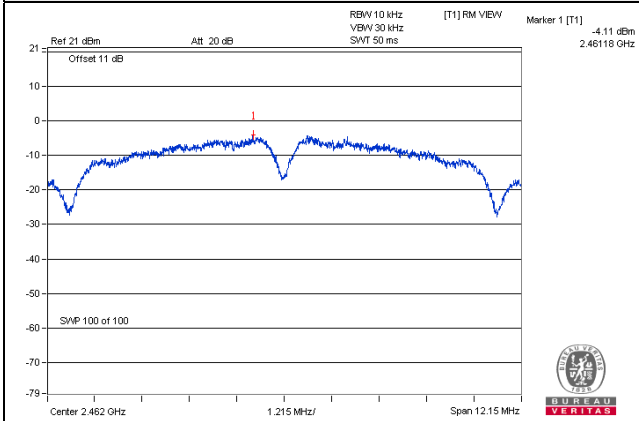
TX chain	Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass / Fail
0	3	2422	-18.15	3.01	0.18	-14.96	5.99	Pass
	6	2437	-14.75	3.01	0.18	-11.56	5.99	Pass
	9	2452	-14.85	3.01	0.18	-11.66	5.99	Pass
1	3	2422	-17.40	3.01	0.18	-14.21	5.99	Pass
	6	2437	-13.51	3.01	0.18	-10.32	5.99	Pass
	9	2452	-13.08	3.01	0.18	-9.89	5.99	Pass

**Note:**

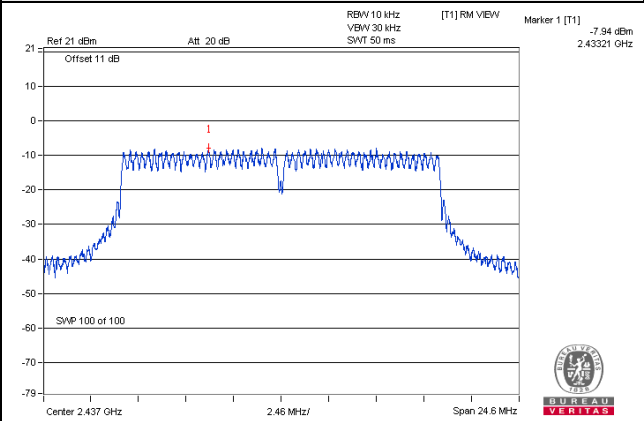
- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain =  $5\text{dBi} + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$ , so the power density limit shall be reduced to  $8 - (8.01 - 6) = 5.99\text{dBm}$ .
- Refer to section 3.3 for duty cycle spectrum plot.

### Spectrum Plot of Worst Value

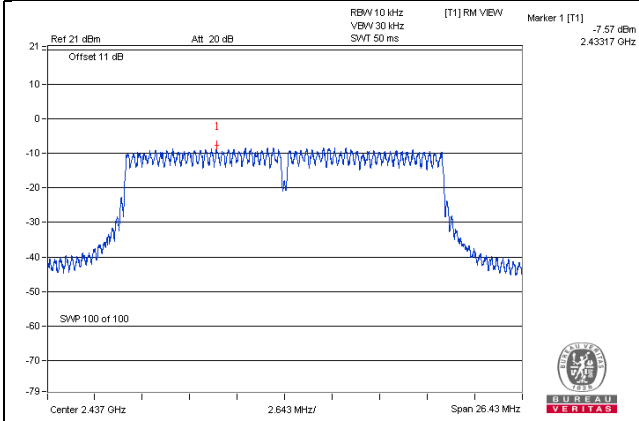
#### 802.11b



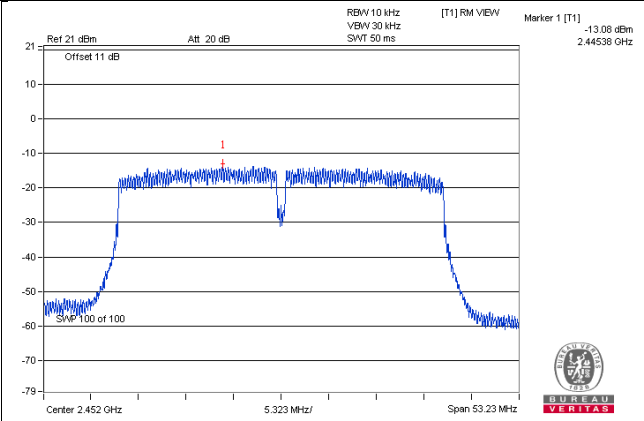
#### 802.11g



#### 802.11n (HT20)



#### 802.11n (HT40)

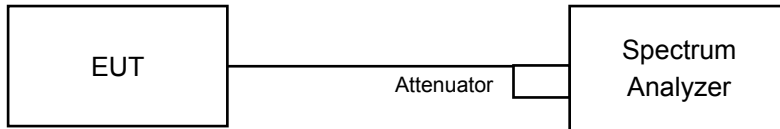


## 4.6 Conducted Out of Band Emission Measurement

### 4.6.1 Limits of Conducted Out of Band Emission Measurement

Below 30dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

### 4.6.2 Test Setup



### 4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.6.4 Test Procedure

#### MEASUREMENT PROCEDURE REF

- Set the RBW = 100 kHz.
- Set the VBW  $\geq$  300 kHz.
- Detector = average.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

#### MEASUREMENT PROCEDURE OOBE

- Set RBW = 100 kHz.
- Set VBW  $\geq$  300 kHz.
- Detector = average.
- Sweep = auto couple.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

### 4.6.5 Deviation from Test Standard

No deviation.

### 4.6.6 EUT Operating Condition

Same as item 4.3.6

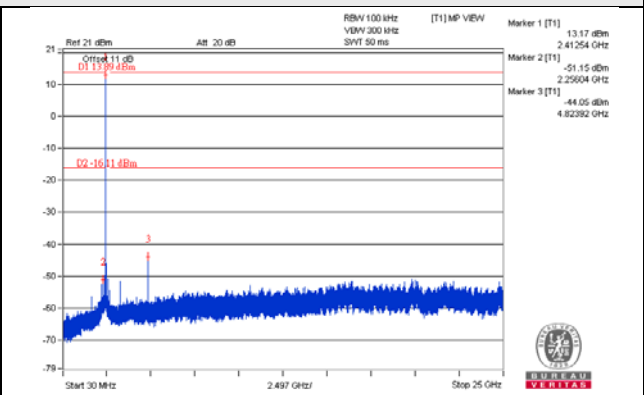
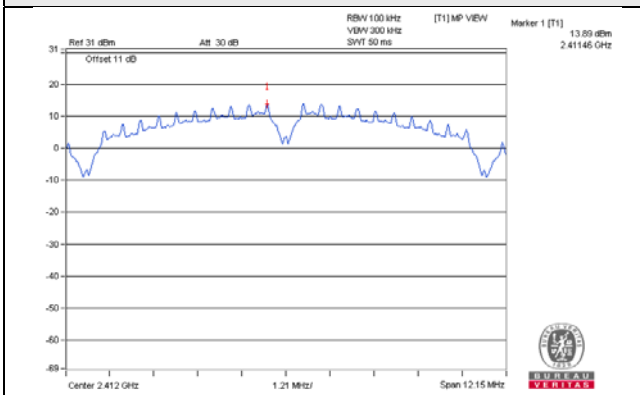
### 4.6.7 Test Results

The conducted emission test is performed on each TX port of operating mode without summing or adding  $10\log(N)$  since the limit is relative emission limit.

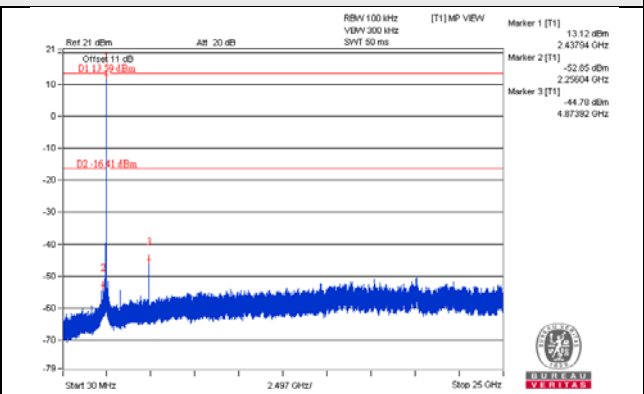
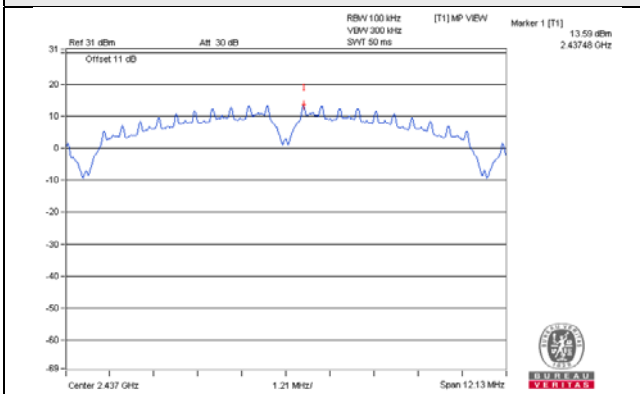
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 30dB offset below D1. It shows compliance with the requirement.

Test Mode B  
802.11b\_Chain 0

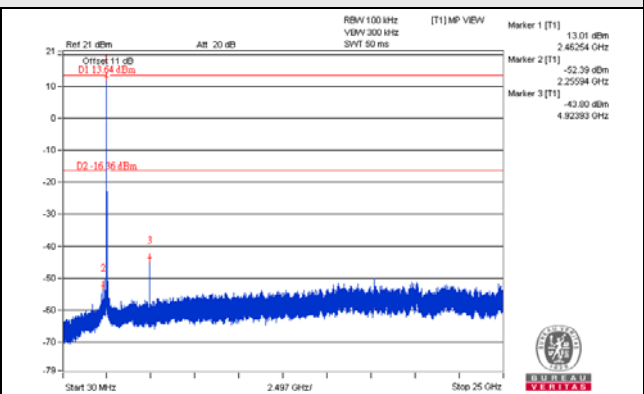
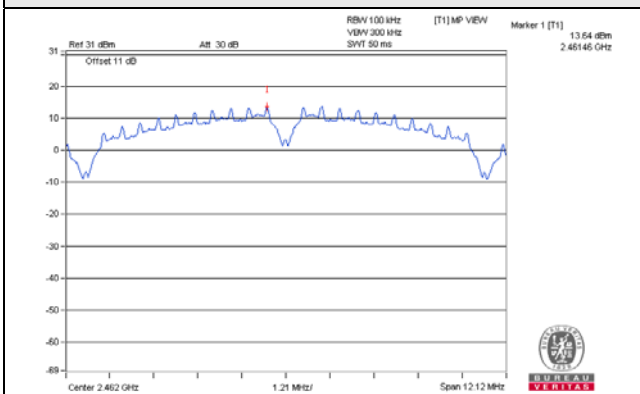
CH 1



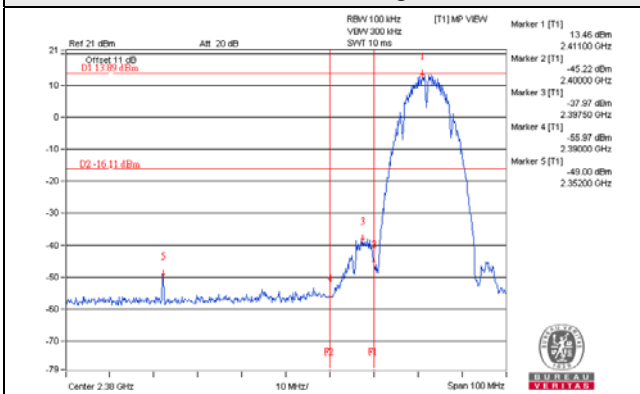
CH 6



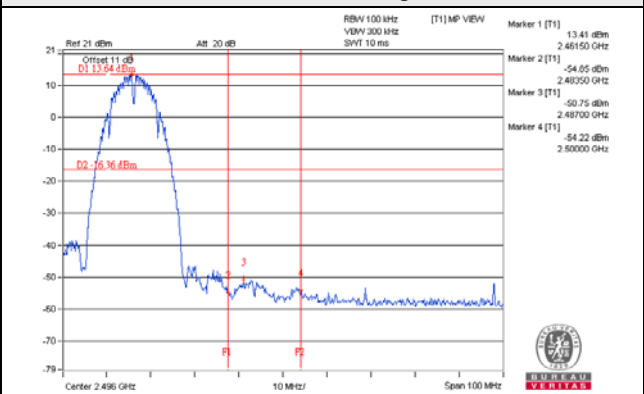
CH 11



CH 1 Band edge

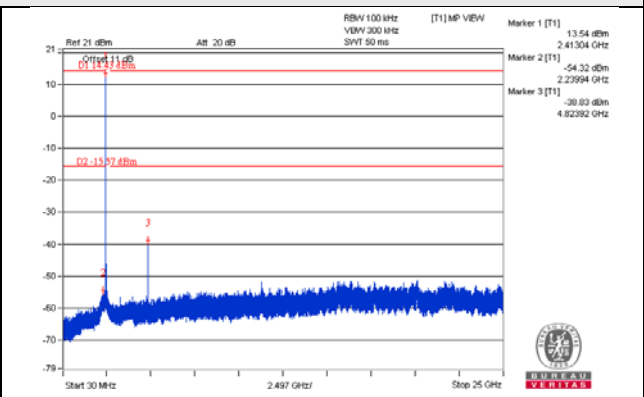
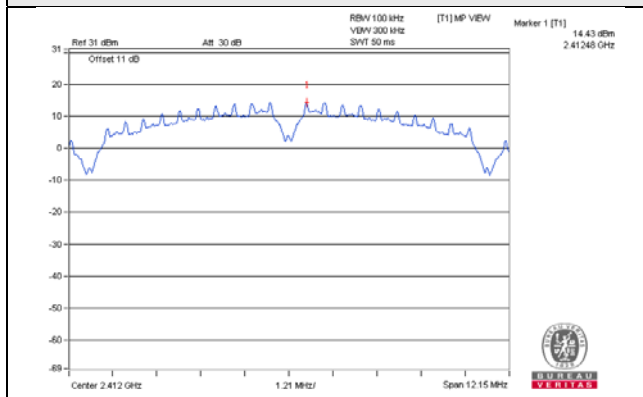


CH 11 Band edge

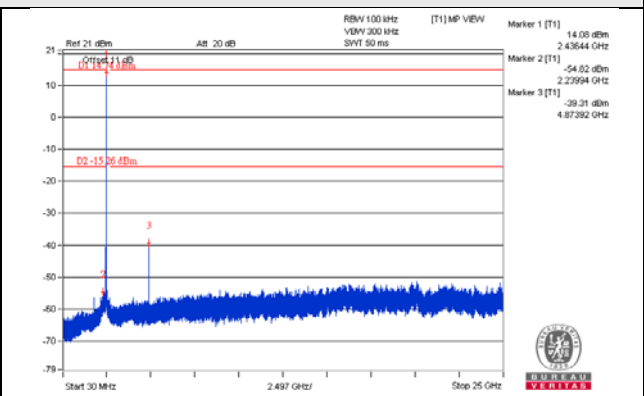
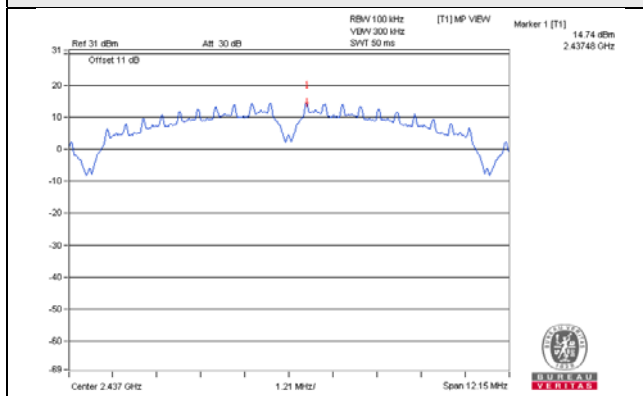


802.11b\_Chain 1

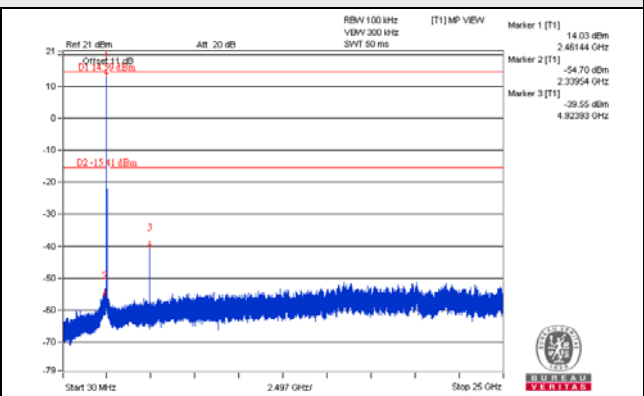
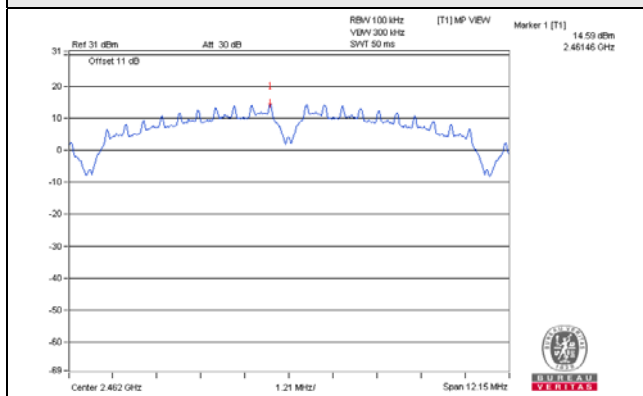
CH 1



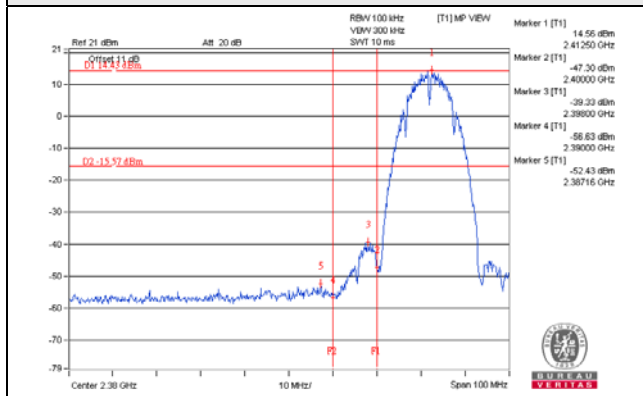
CH 6



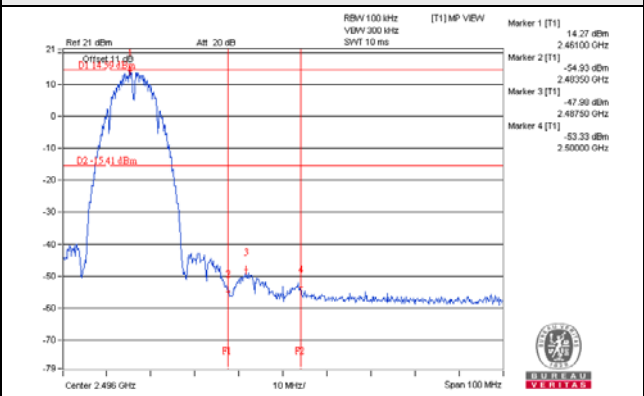
CH 11



CH 1 Band edge

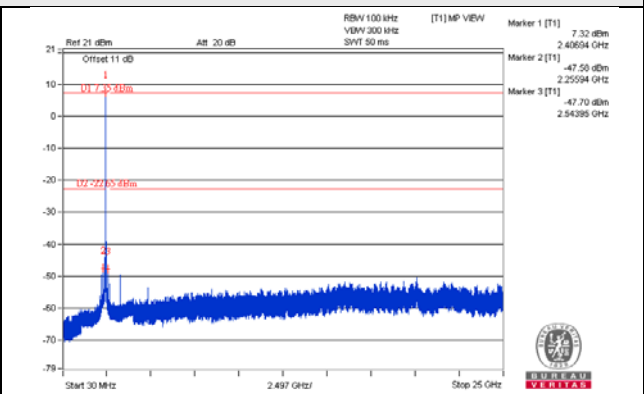
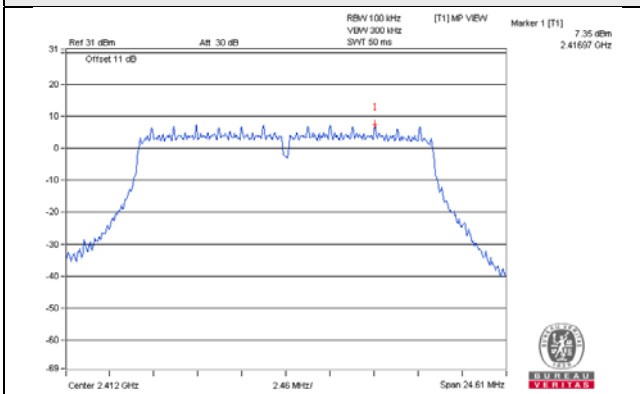


CH 11 Band edge

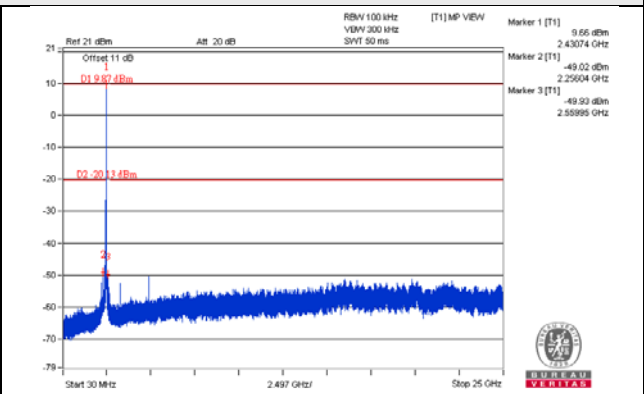
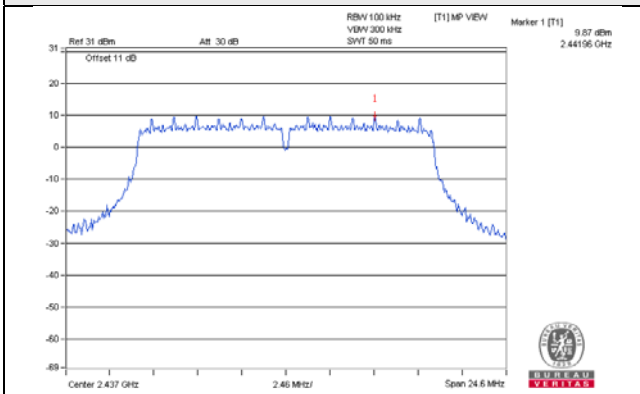


802.11g\_Chain 0

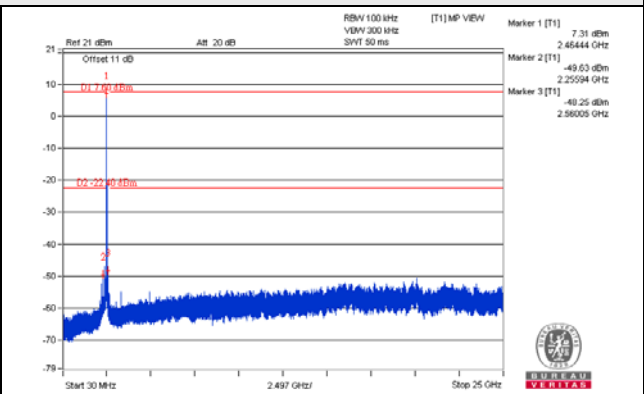
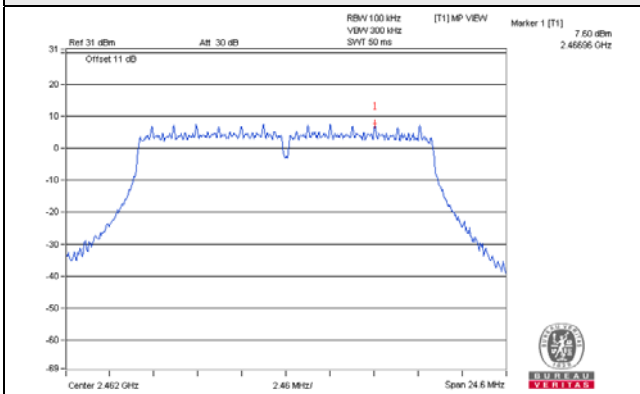
CH 1



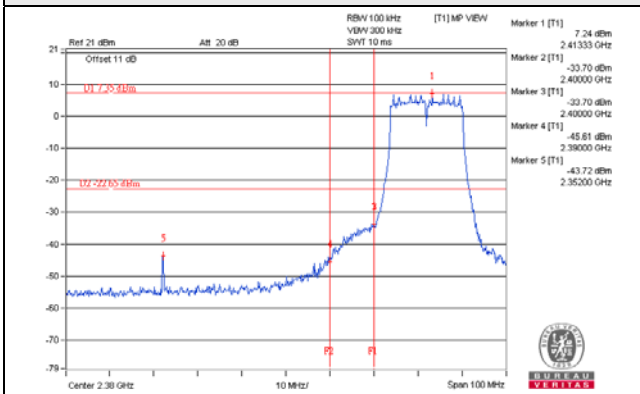
CH 6



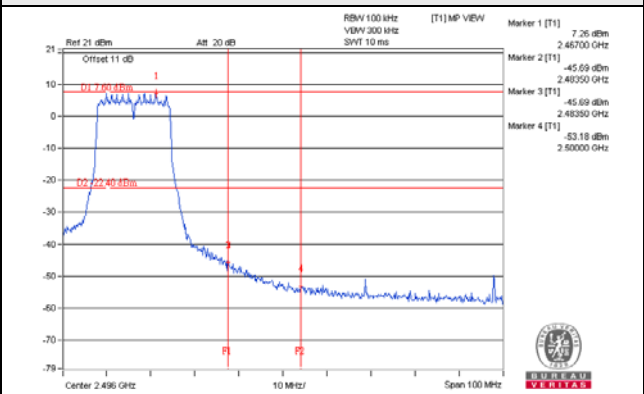
CH 11



CH 1 Band edge



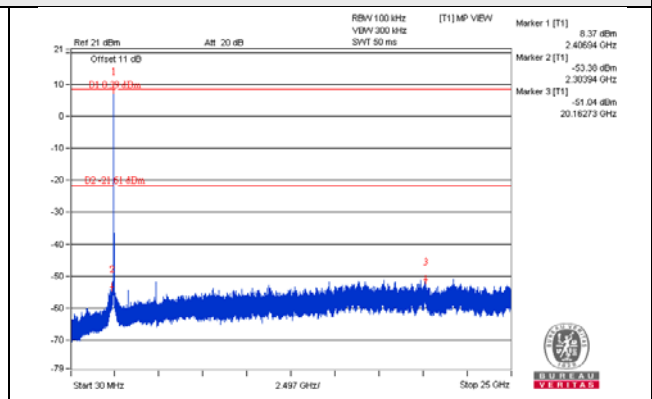
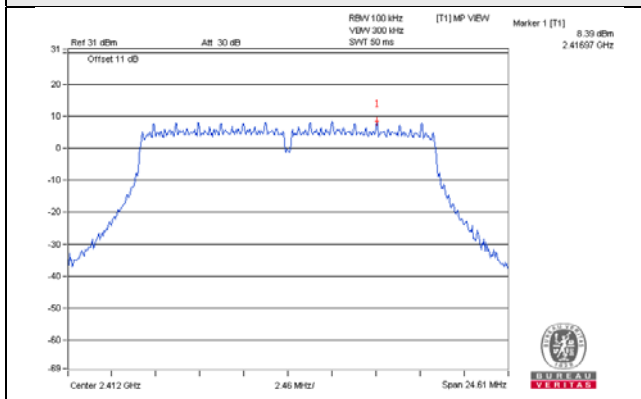
CH 11 Band edge



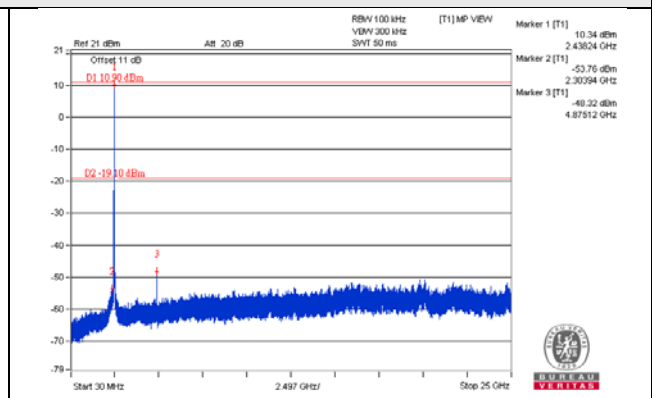
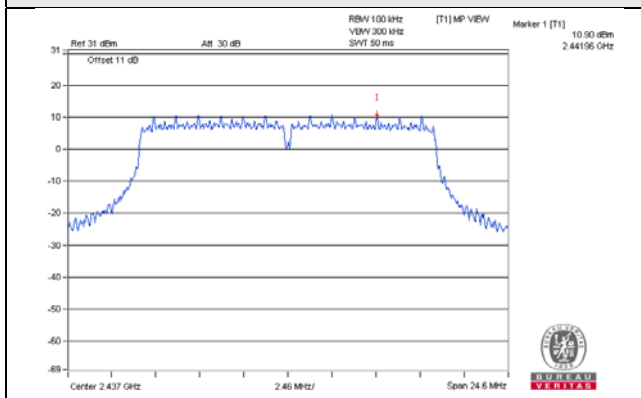


802.11g\_Chain 1

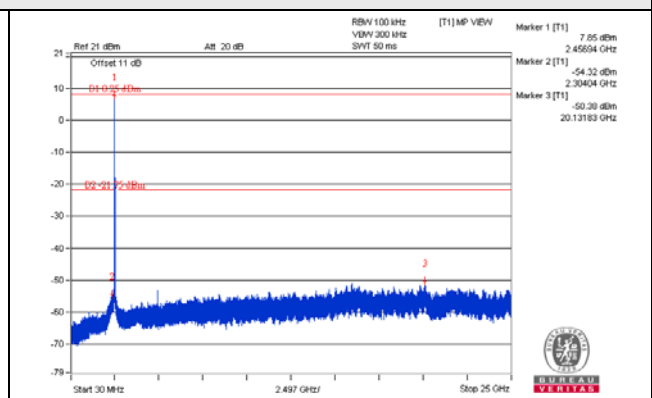
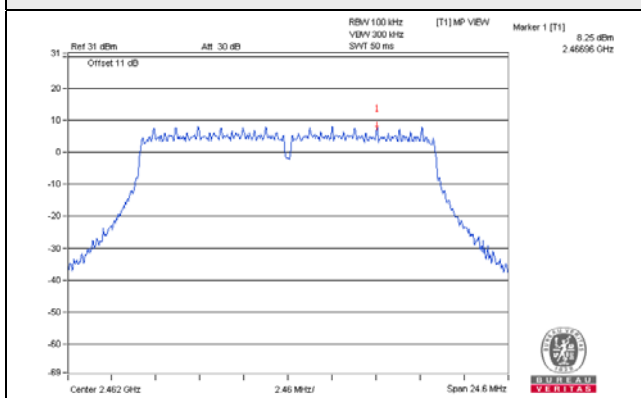
CH 1



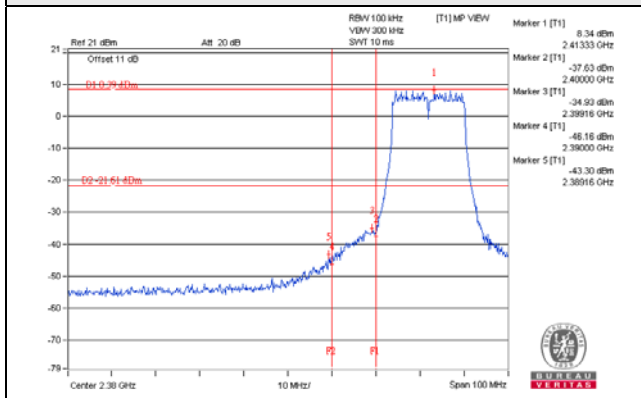
CH 6



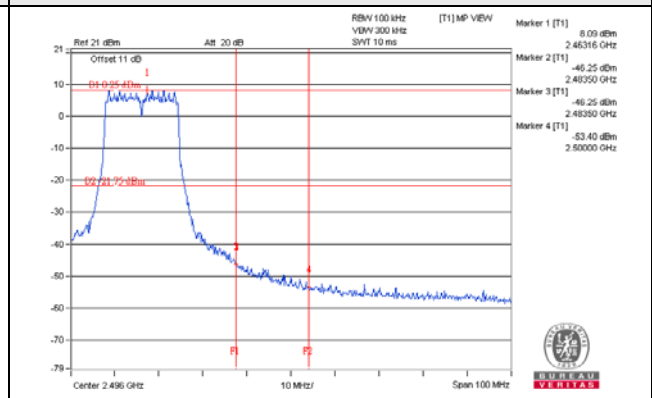
CH 11



CH 1 Band edge

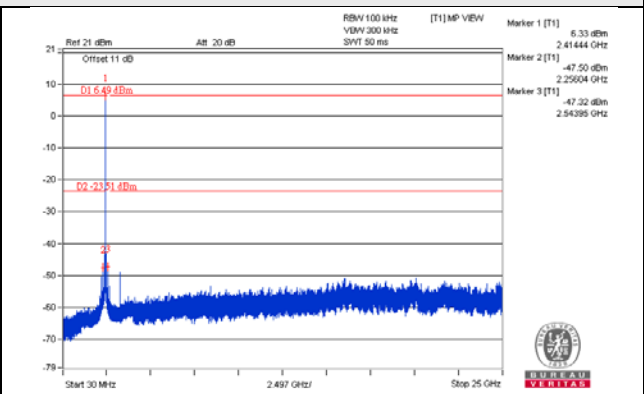
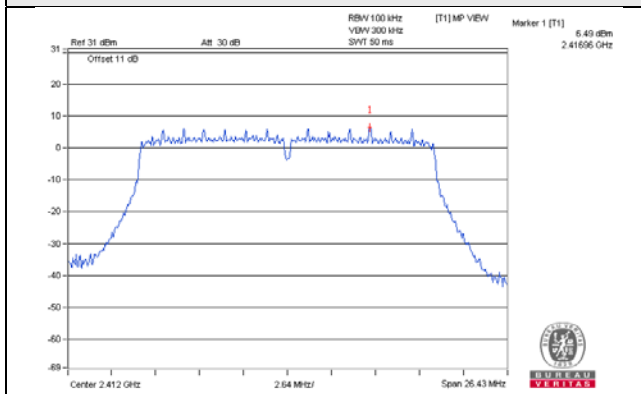


CH 11 Band edge

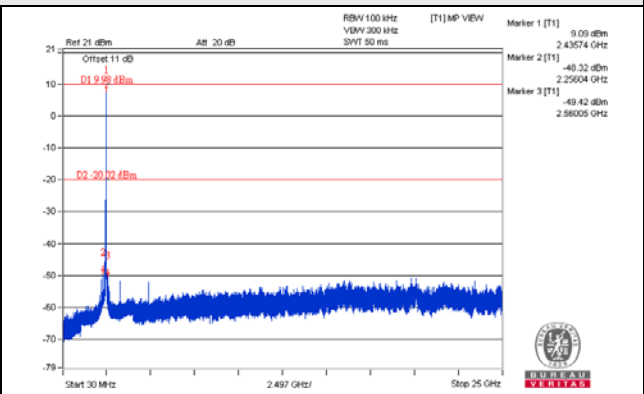
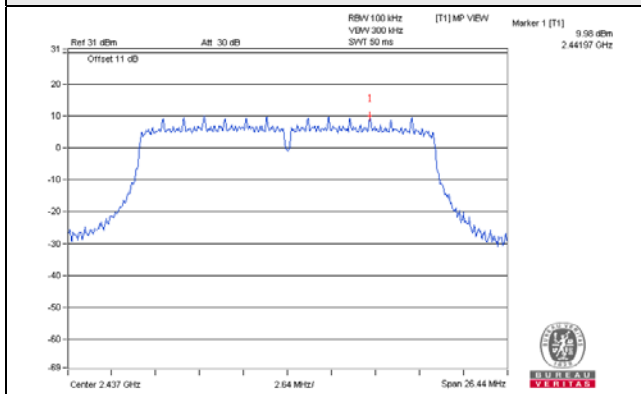


802.11n (HT20)\_Chain 0

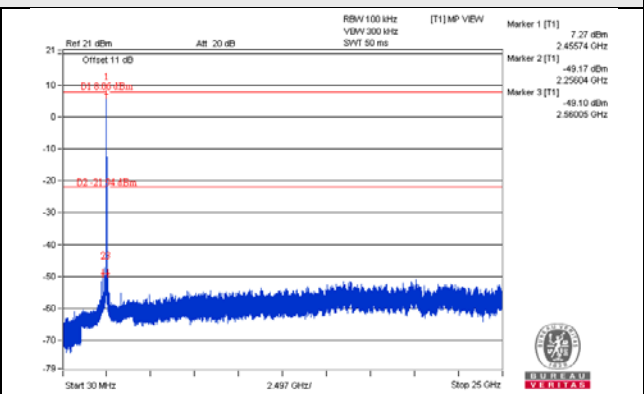
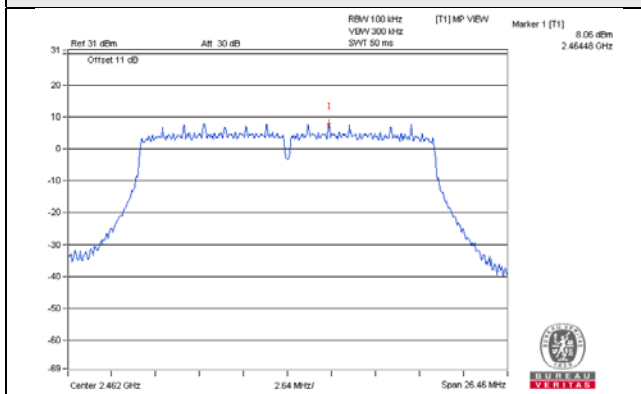
CH 1



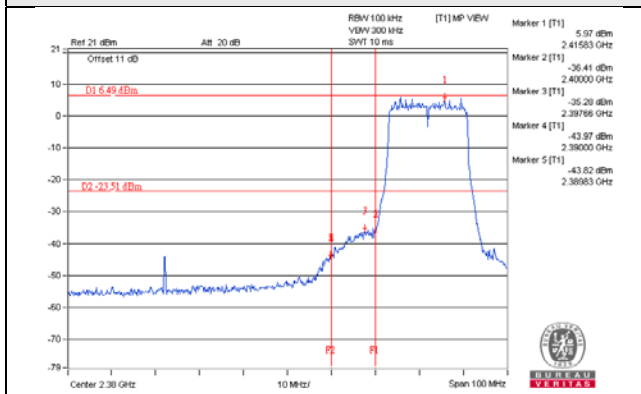
CH 6



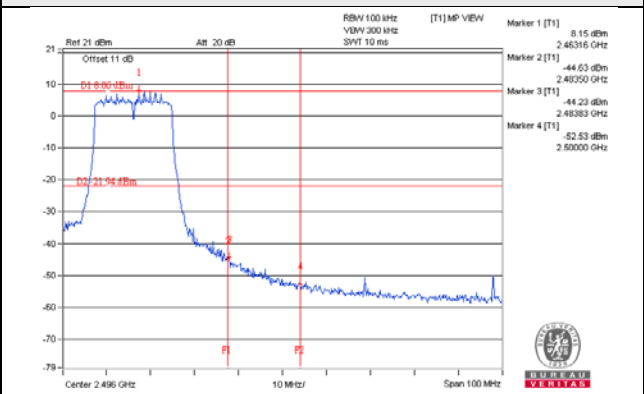
CH 11



CH 1 Band edge

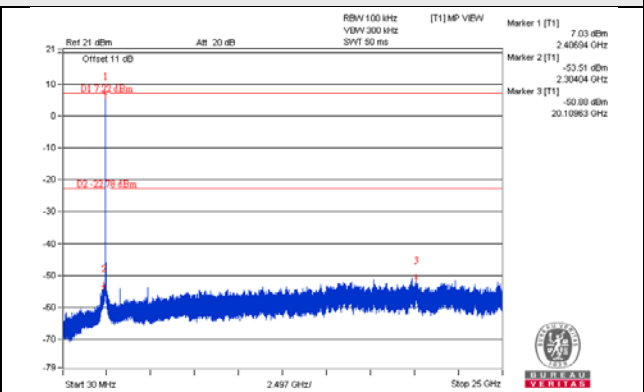
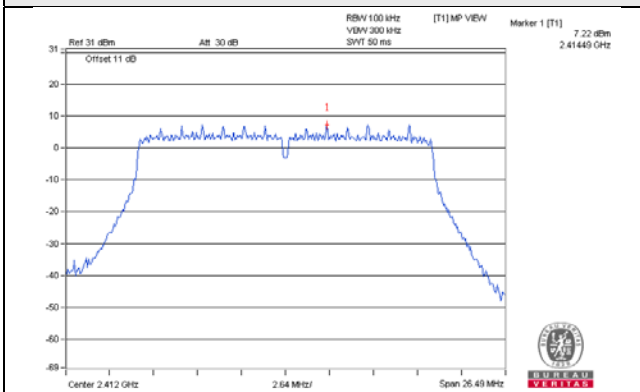


CH 11 Band edge

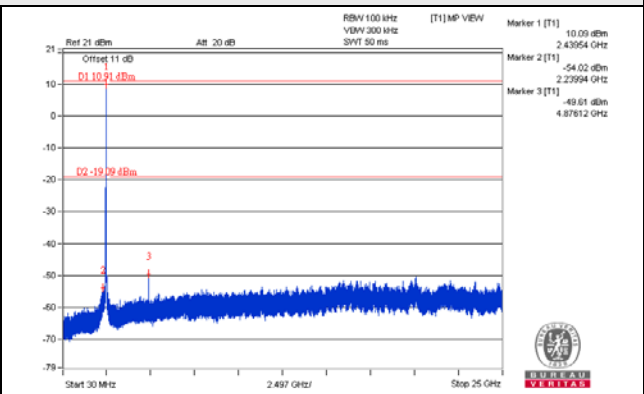
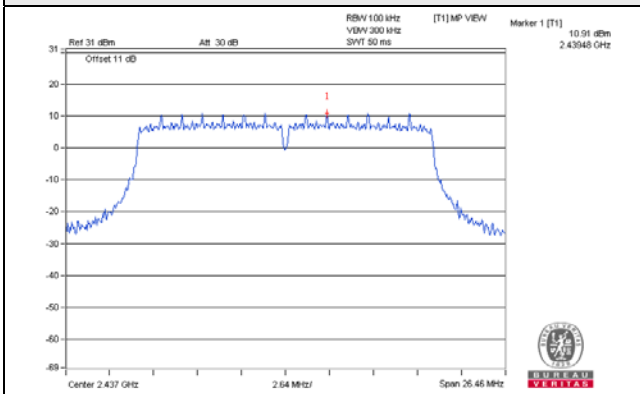


### 802.11n (HT20)\_Chain 1

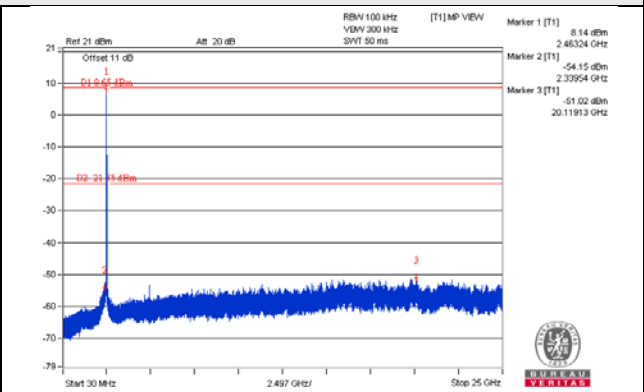
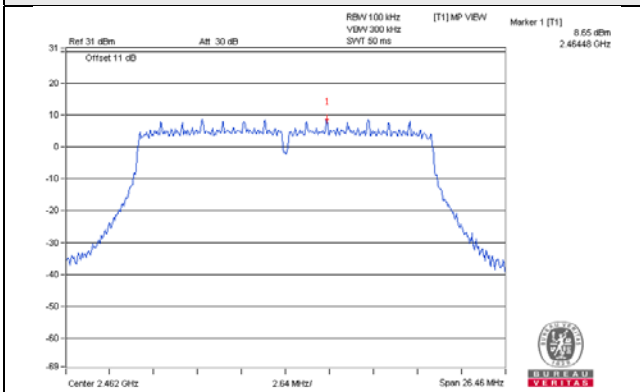
#### CH 1



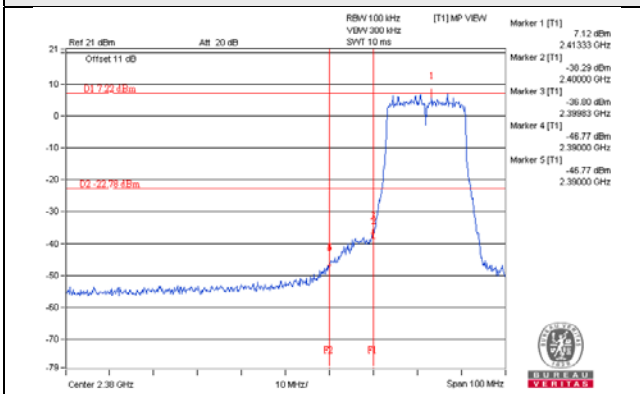
#### CH 6



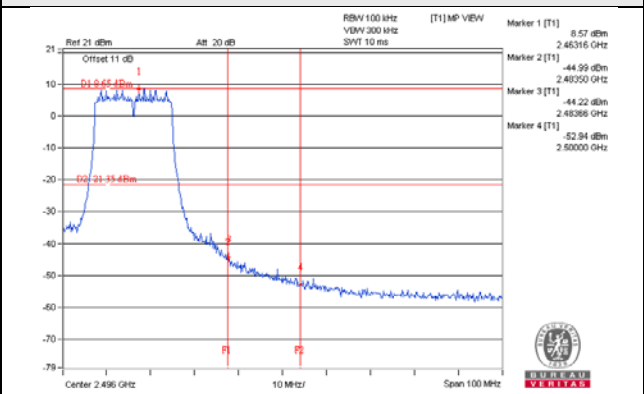
#### CH 11



#### CH 1 Band edge

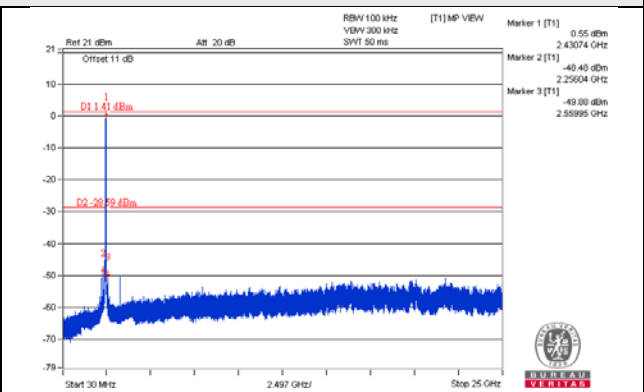
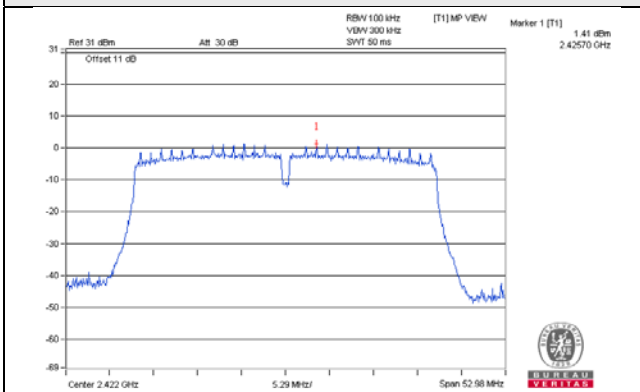


#### CH 11 Band edge

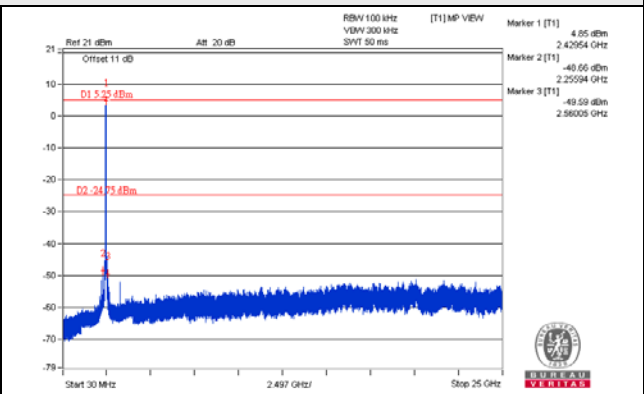
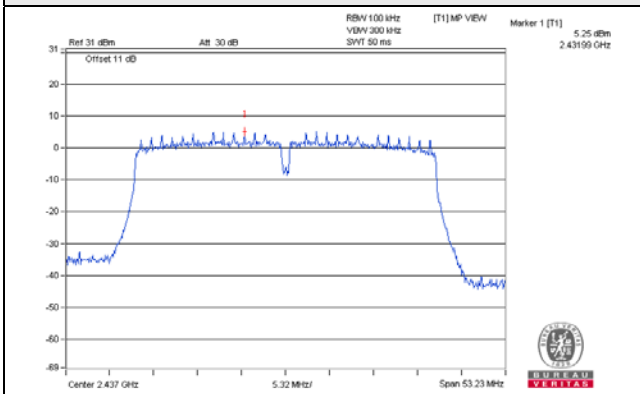


802.11n (HT40)\_Chain 0

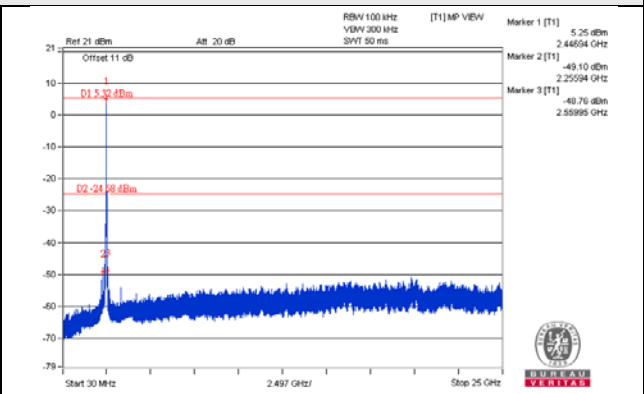
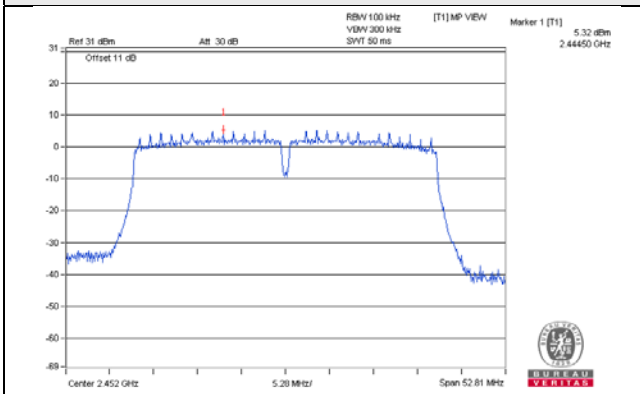
CH 3



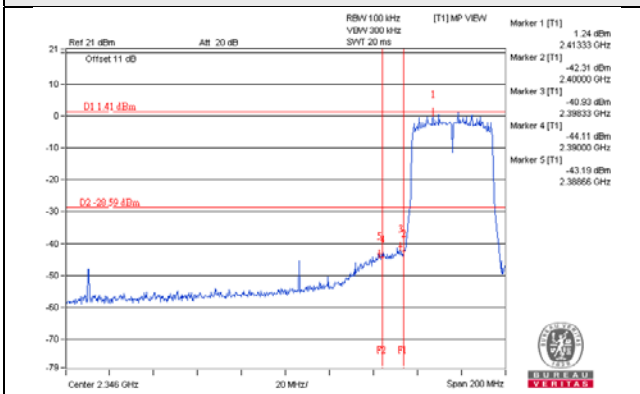
CH 6



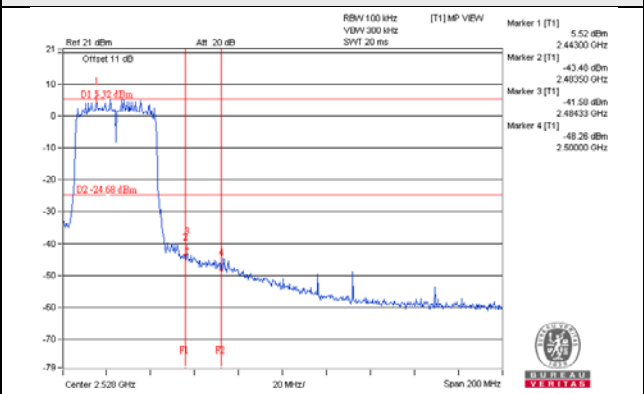
CH 9



CH 3 Band edge

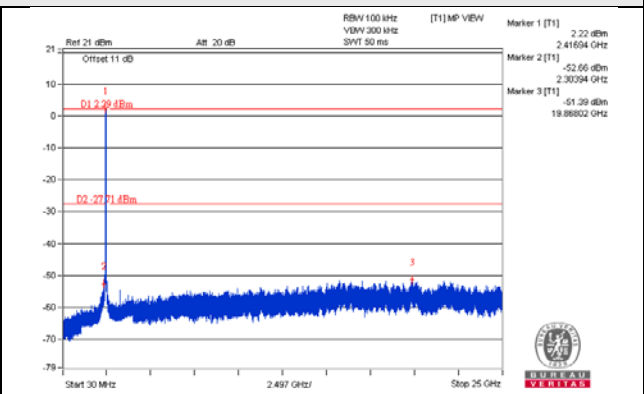
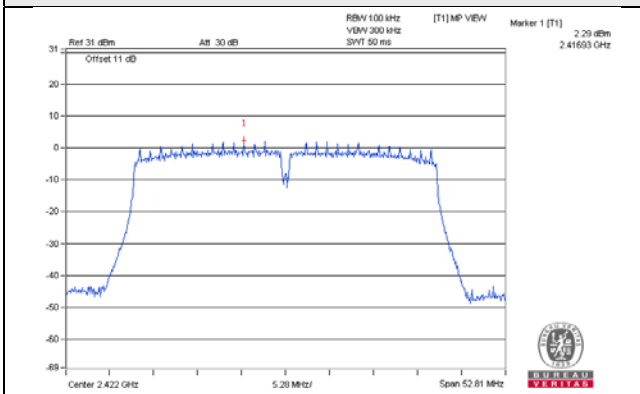


CH 9 Band edge

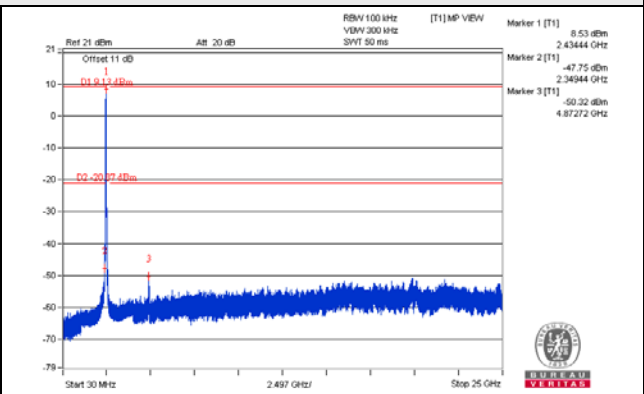
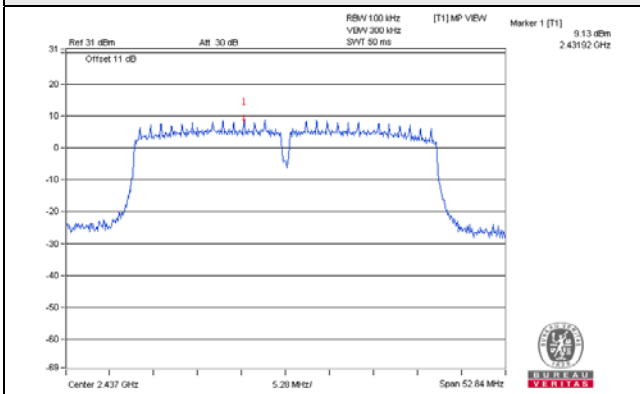


### 802.11n (HT40)\_Chain 1

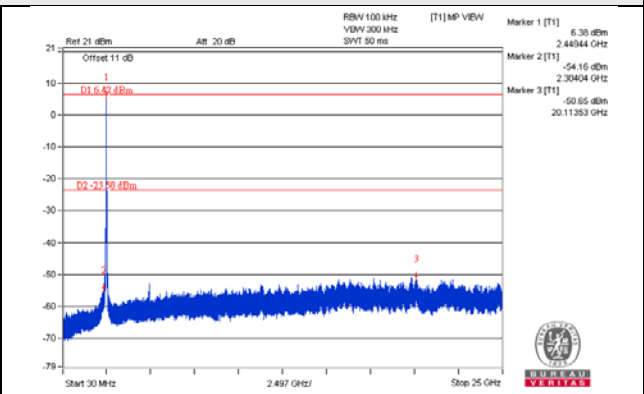
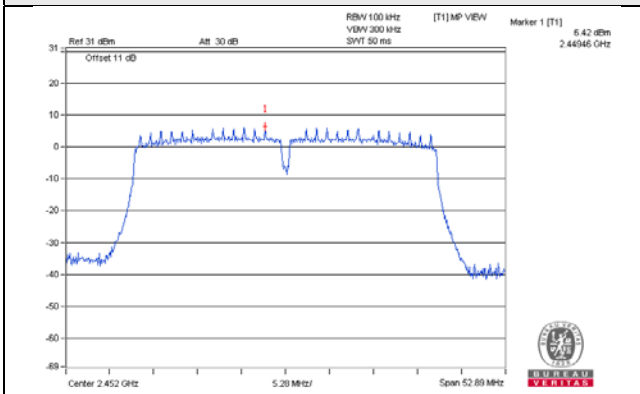
#### CH 3



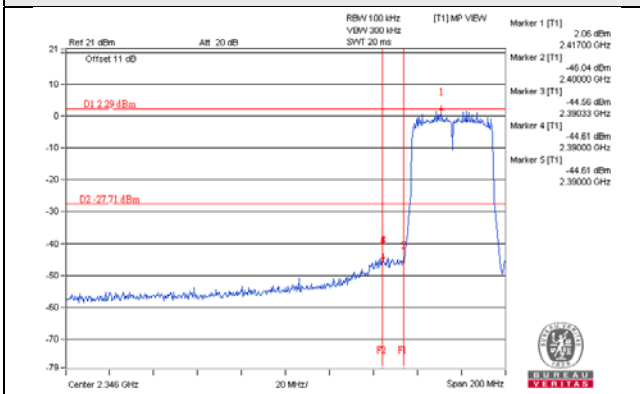
#### CH 6



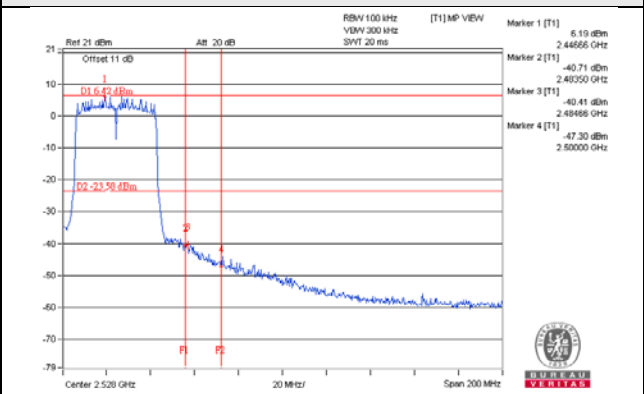
#### CH 9



#### CH 3 Band edge

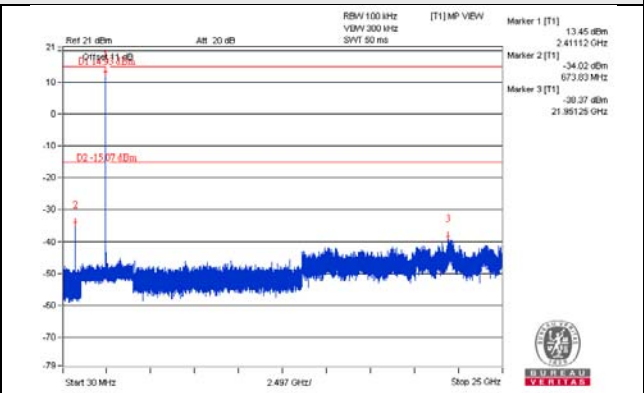
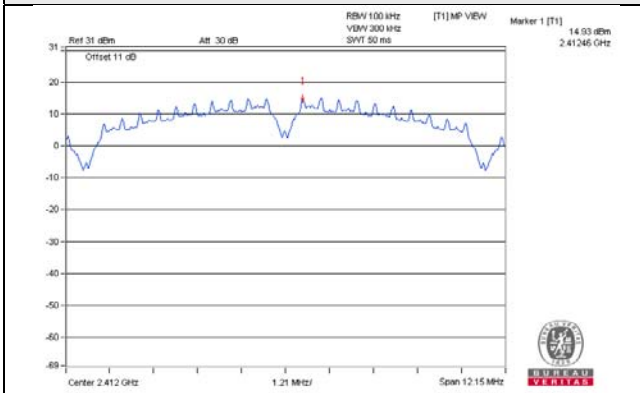


#### CH 9 Band edge

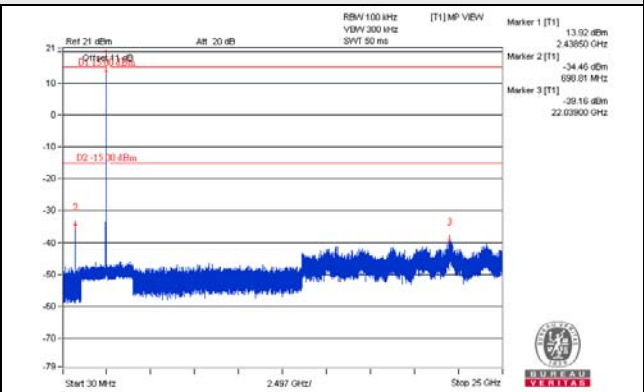
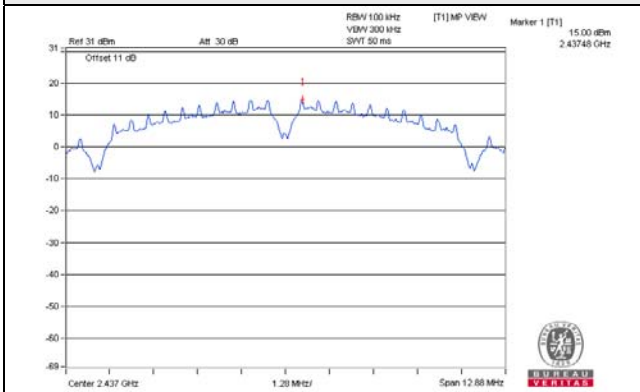


Test Mode C  
802.11b\_Chain 0

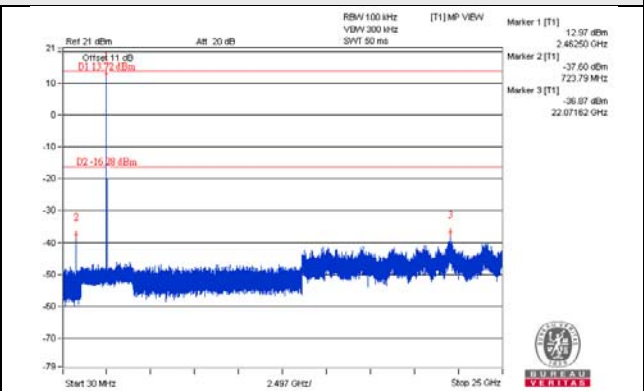
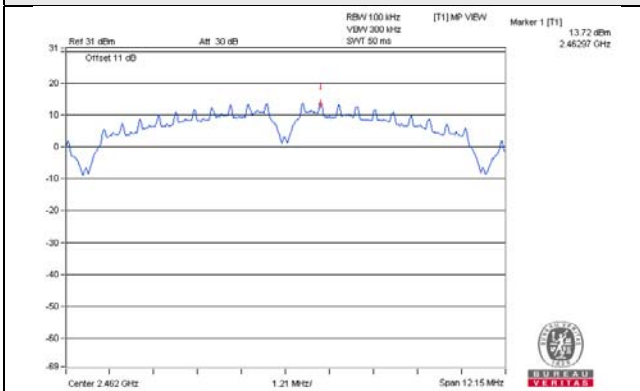
CH 1



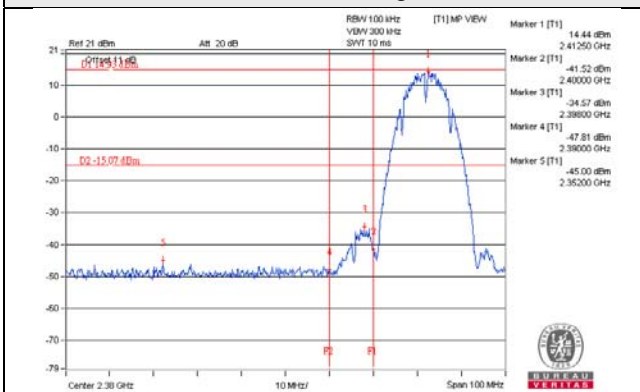
CH 6



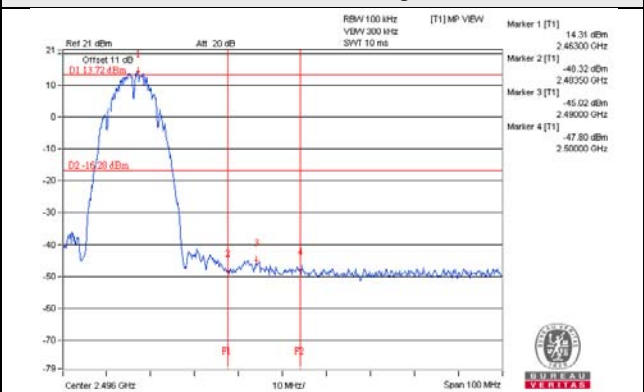
CH 11



CH 1 Band edge

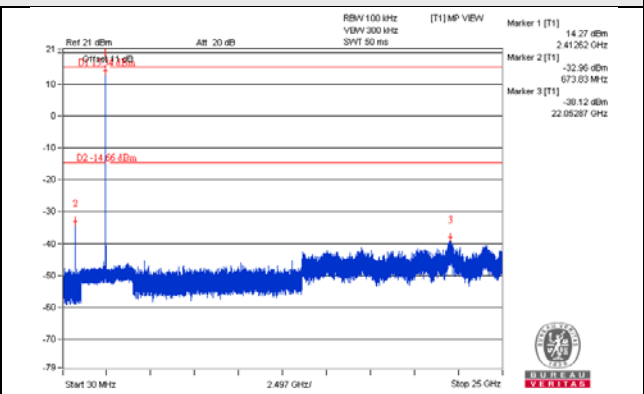
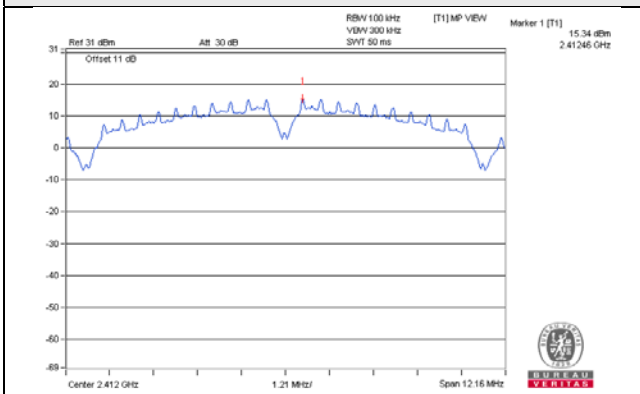


CH 11 Band edge

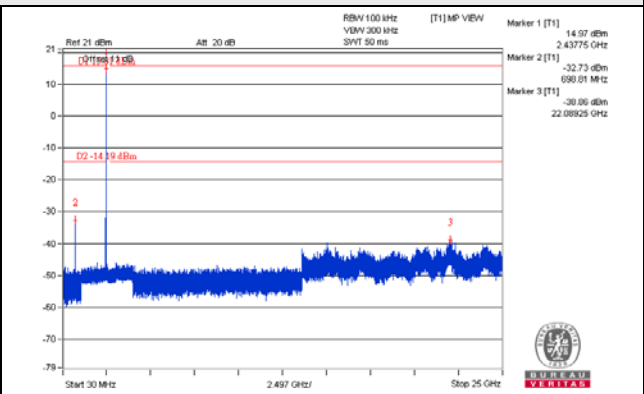
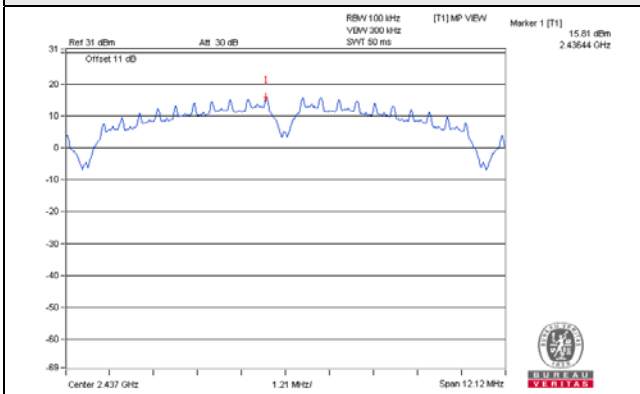


802.11b\_Chain 1

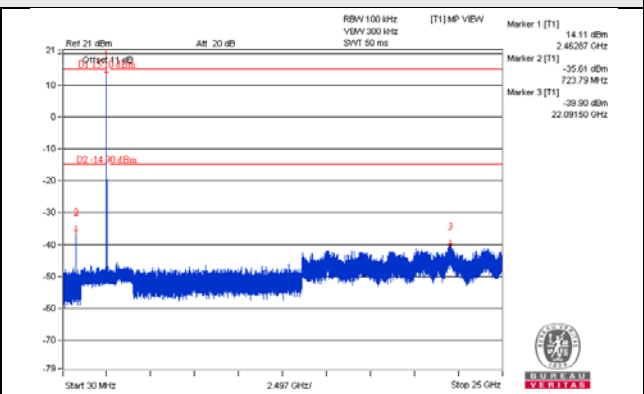
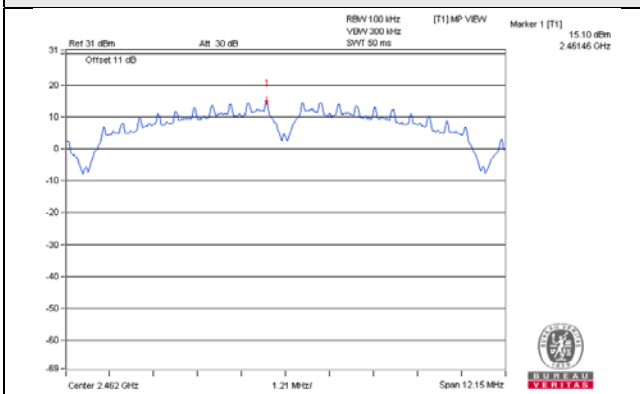
CH 1



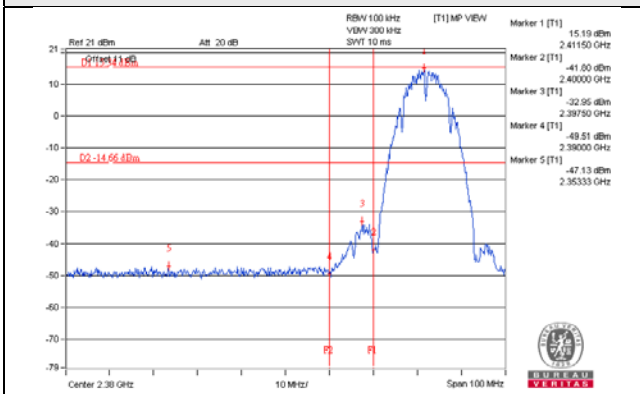
CH 6



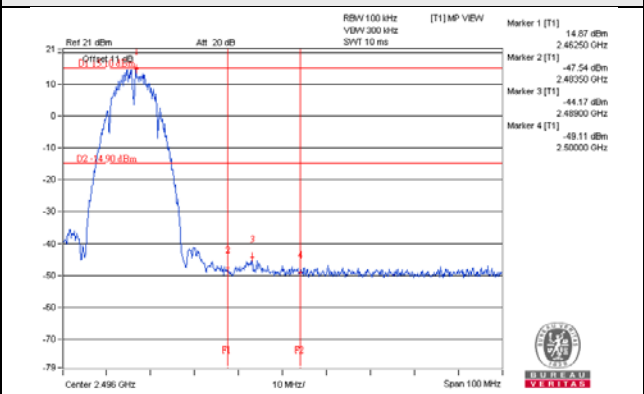
CH 11



CH 1 Band edge

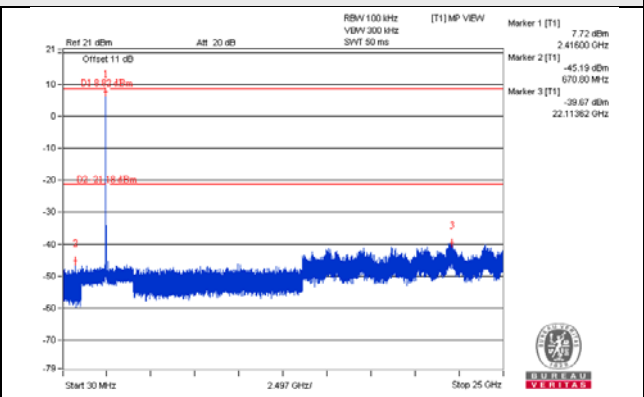
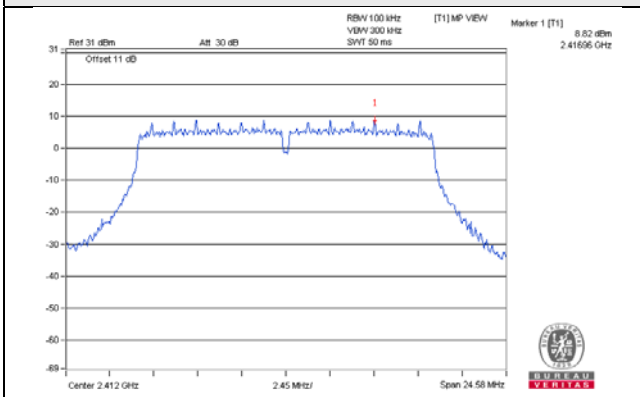


CH 11 Band edge

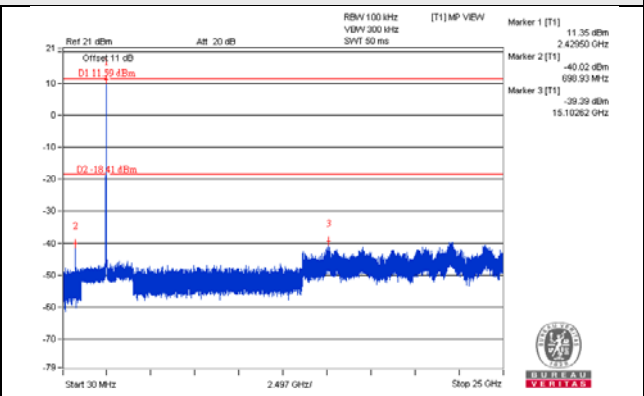
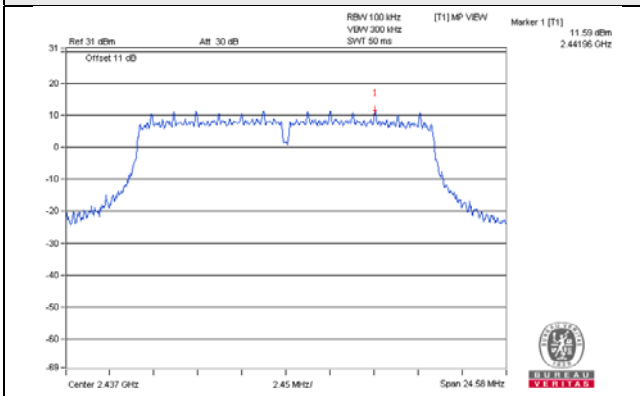


802.11g\_Chain 0

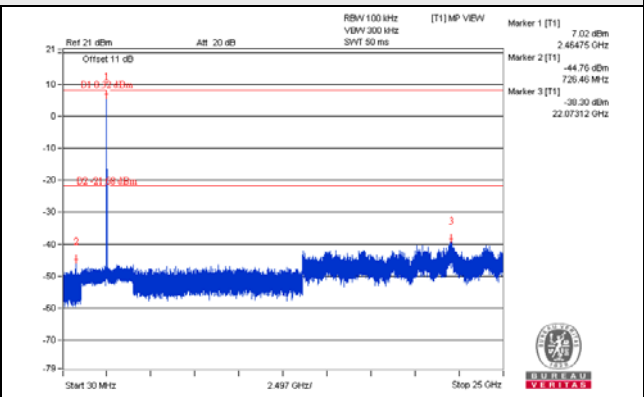
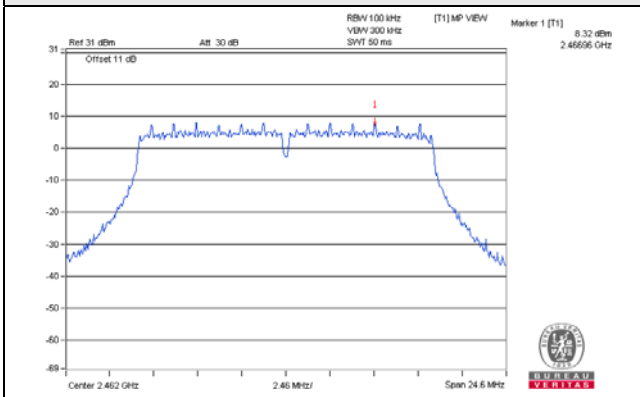
CH 1



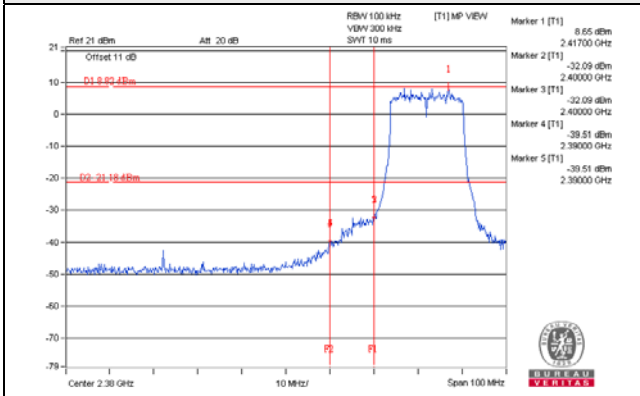
CH 6



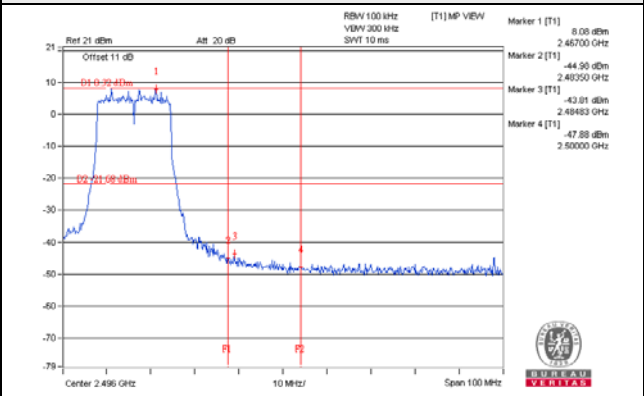
CH 11



CH 1 Band edge



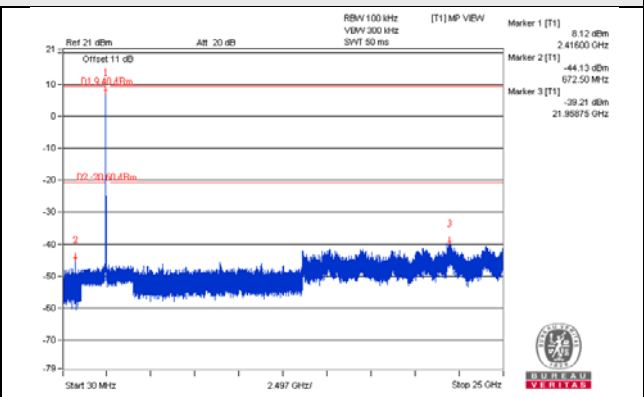
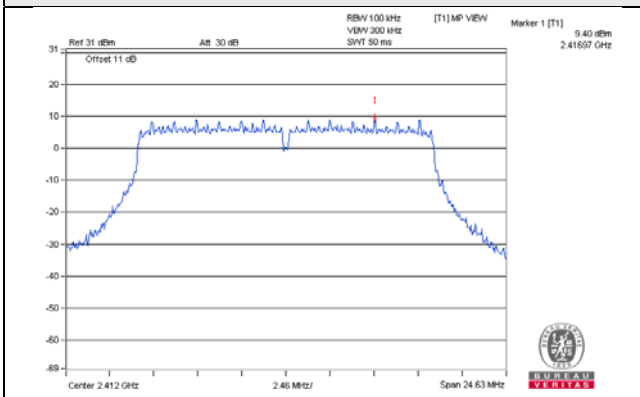
CH 11 Band edge



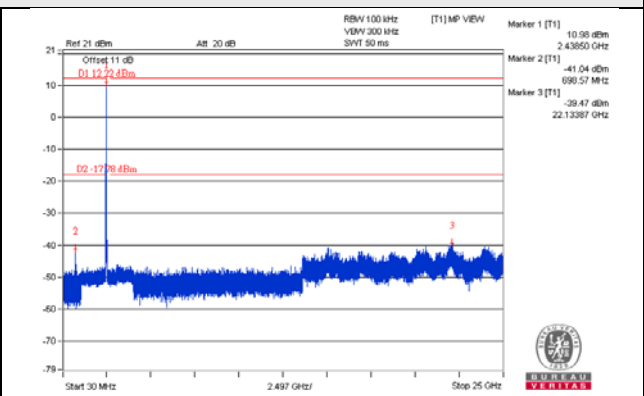
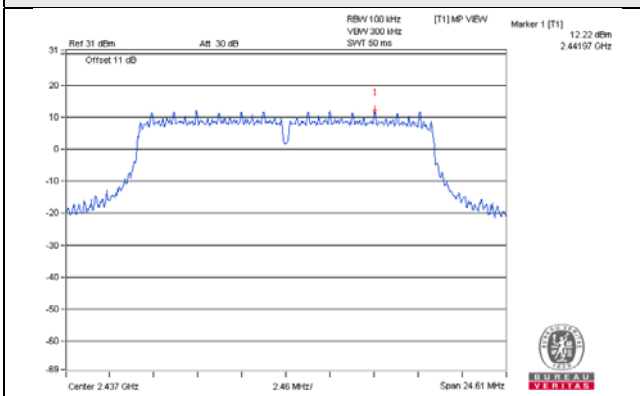


### 802.11g\_Chain 1

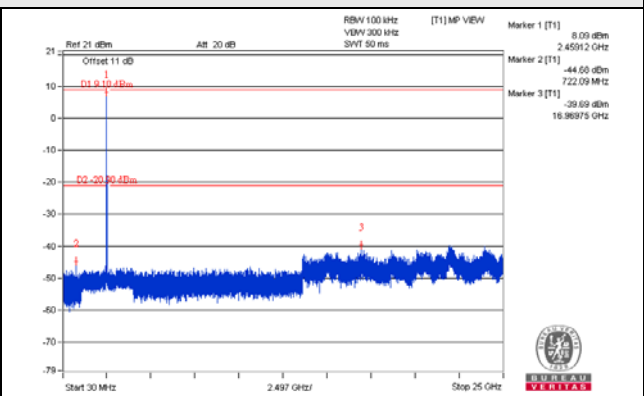
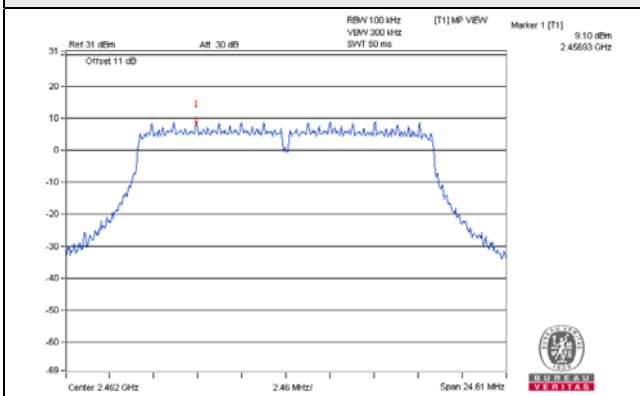
#### CH 1



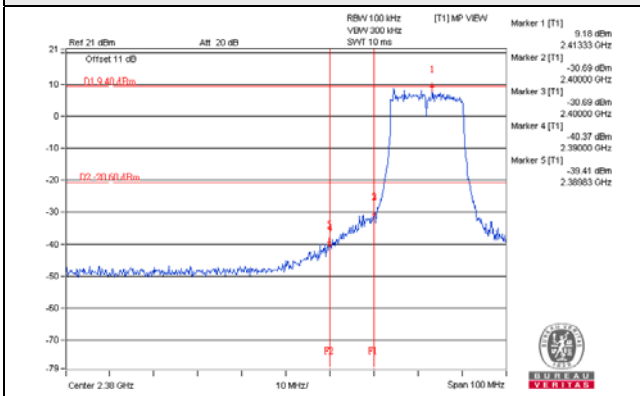
#### CH 6



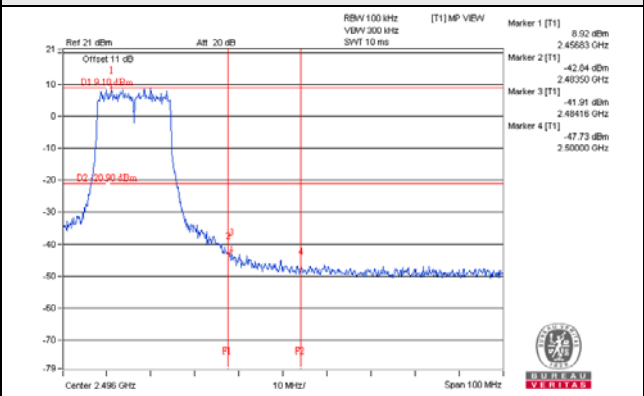
#### CH 11



#### CH 1 Band edge

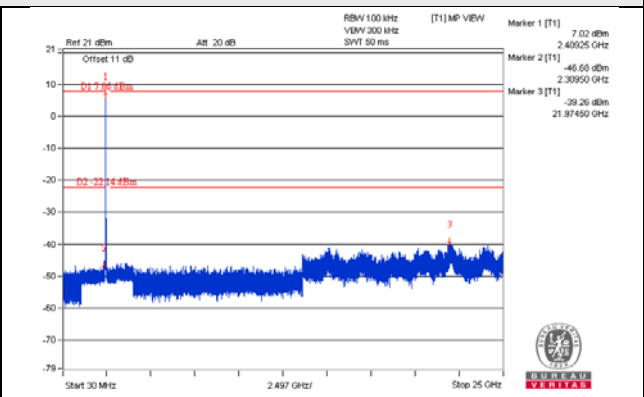
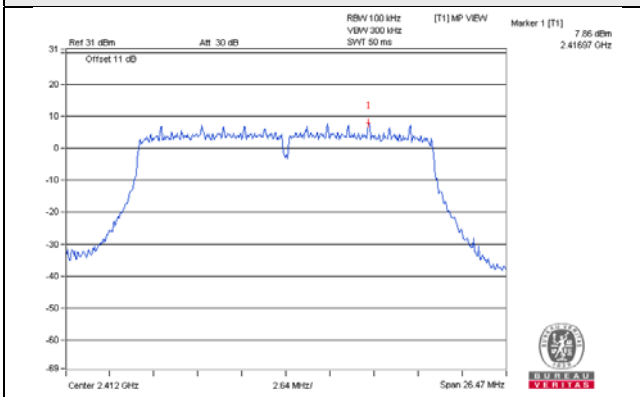


#### CH 11 Band edge

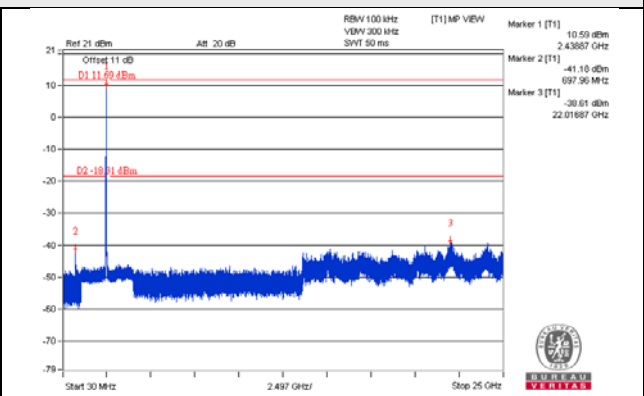
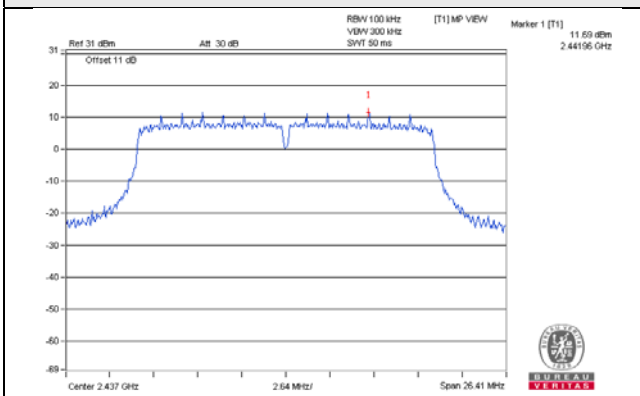


### 802.11n (HT20)\_Chain 0

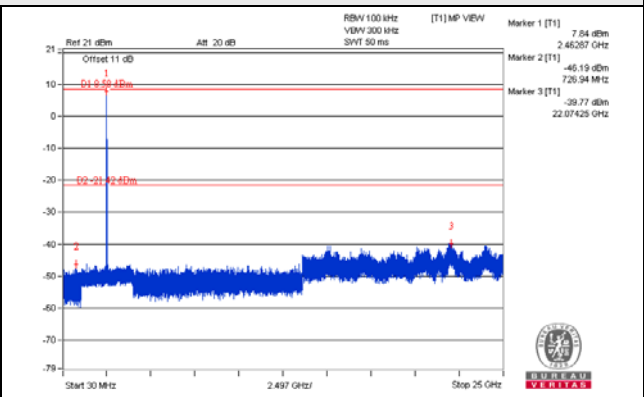
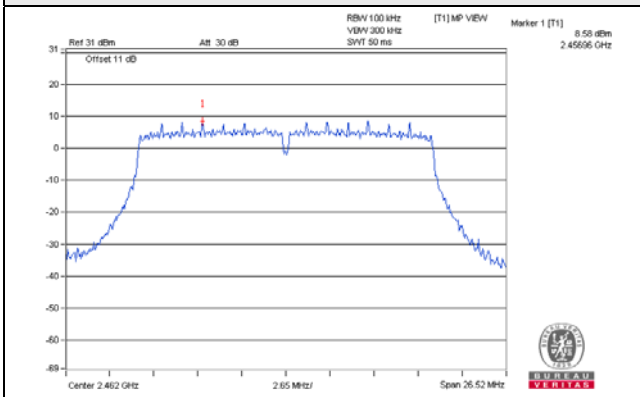
#### CH 1



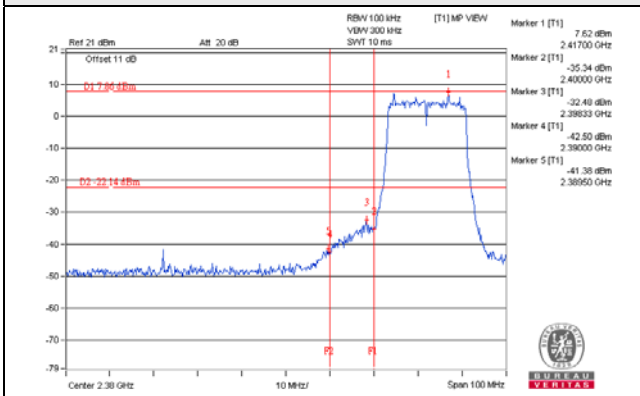
#### CH 6



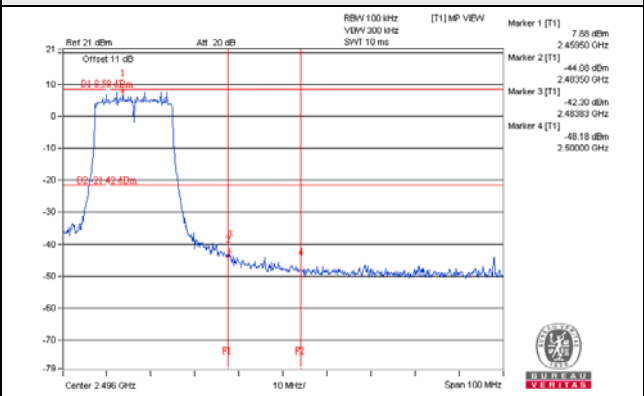
#### CH 11



#### CH 1 Band edge

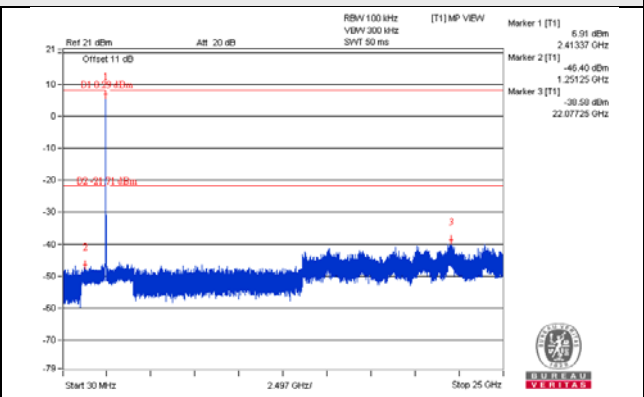
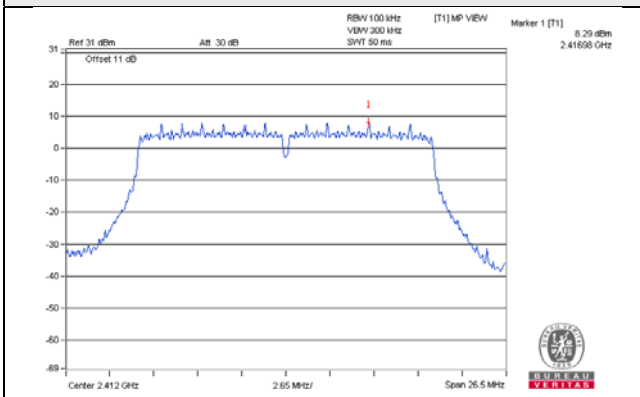


#### CH 11 Band edge

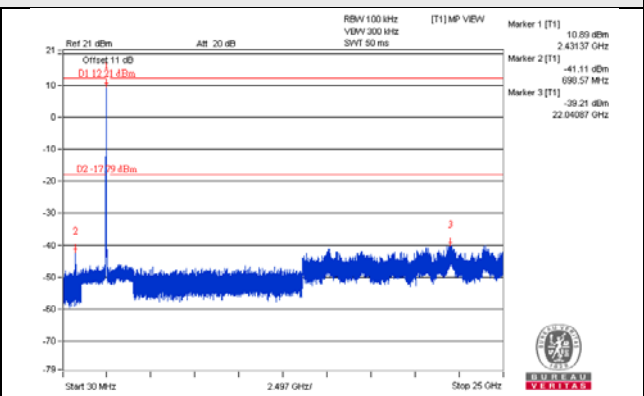
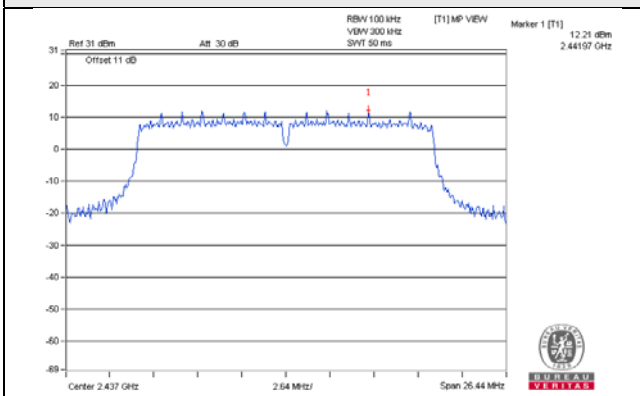


### 802.11n (HT20)\_Chain 1

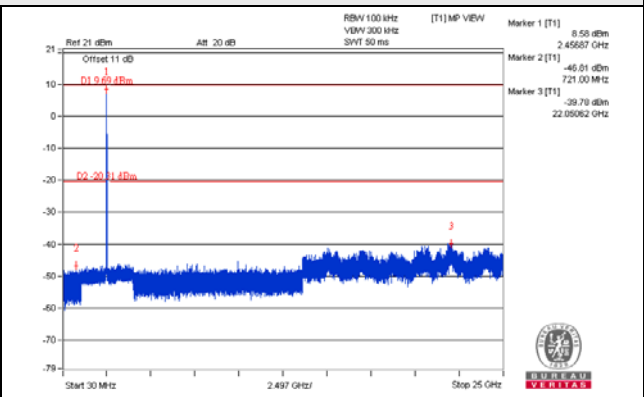
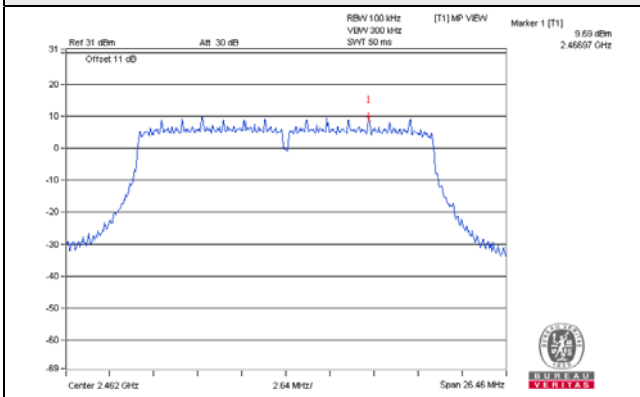
#### CH 1



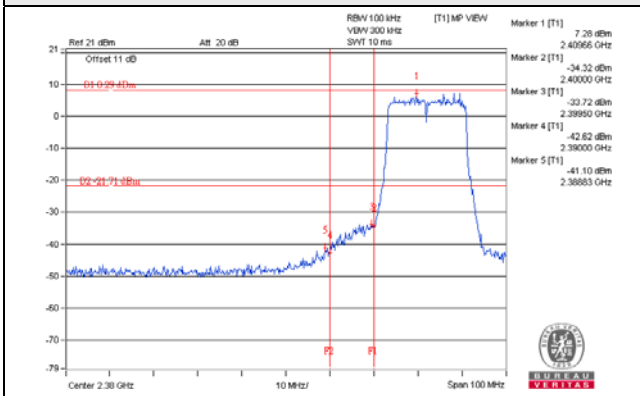
#### CH 6



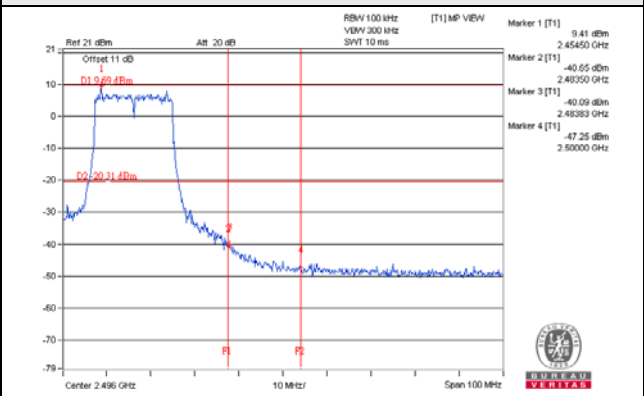
#### CH 11



#### CH 1 Band edge

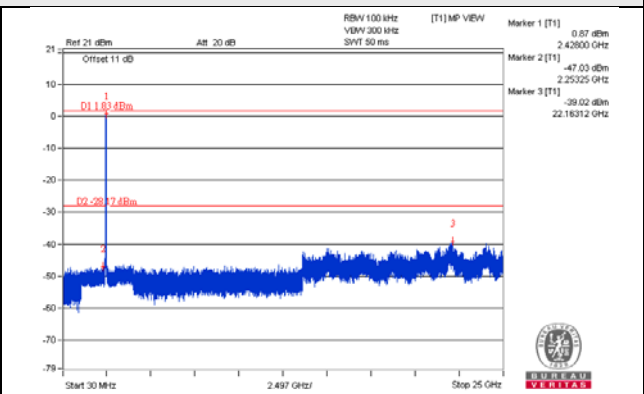
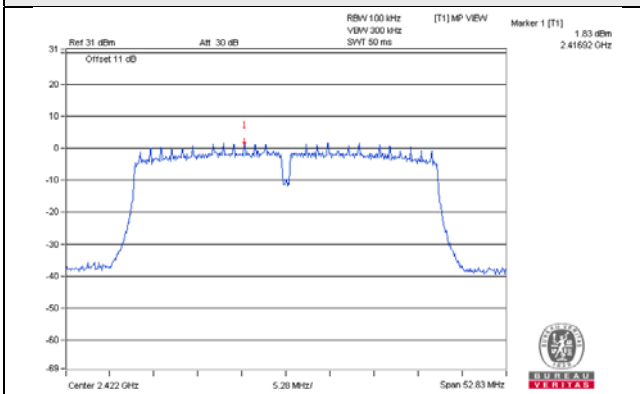


#### CH 11 Band edge

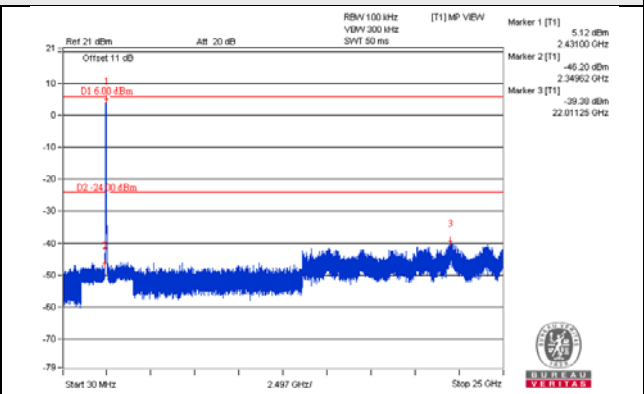
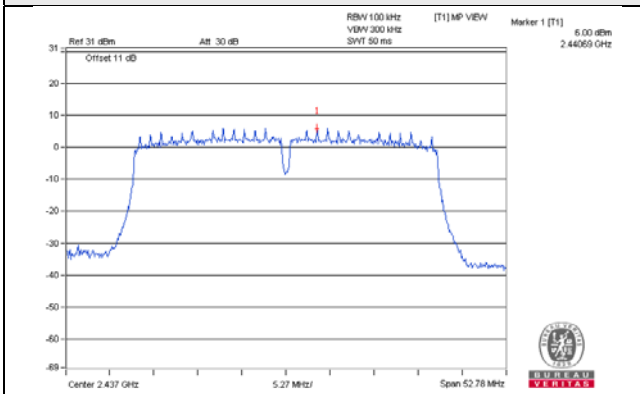


### 802.11n (HT40)\_Chain 0

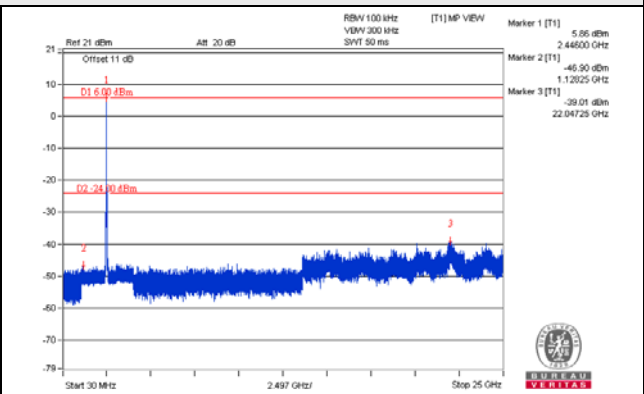
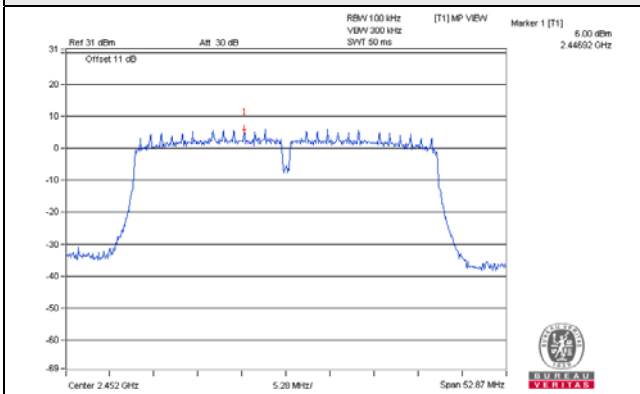
#### CH 3



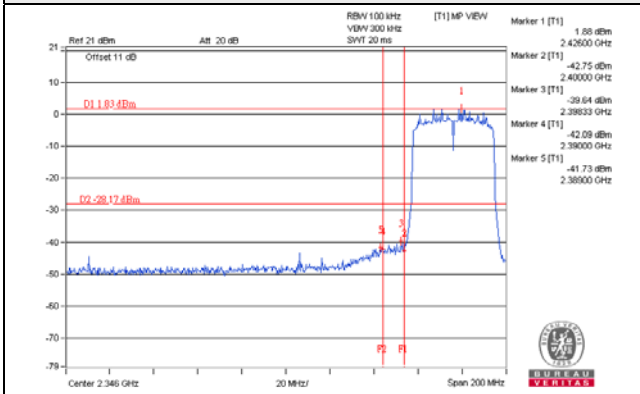
#### CH 6



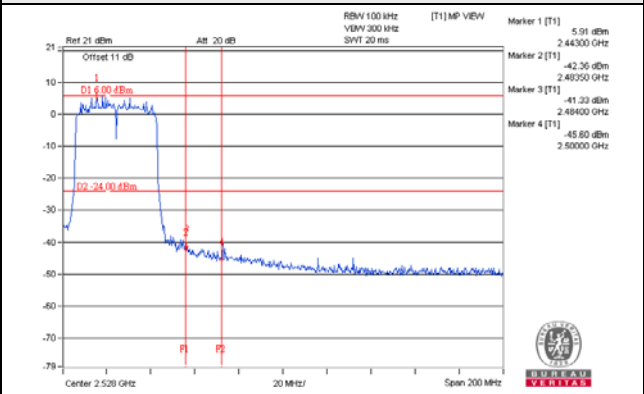
#### CH 9



#### CH 3 Band edge

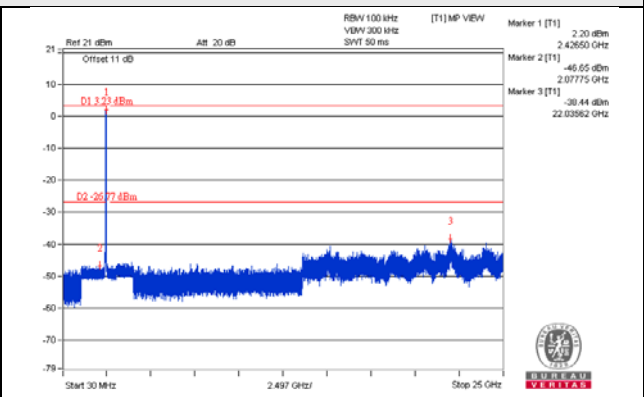
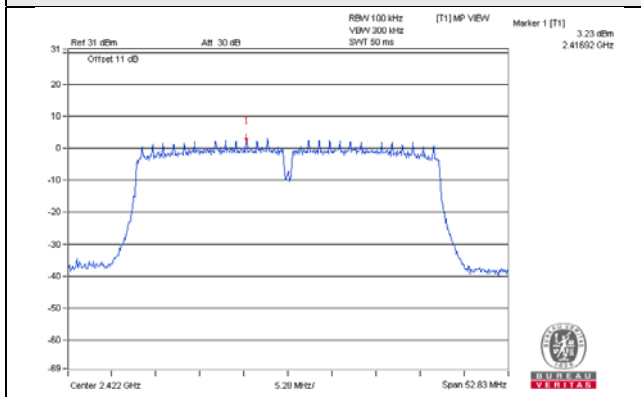


#### CH 9 Band edge

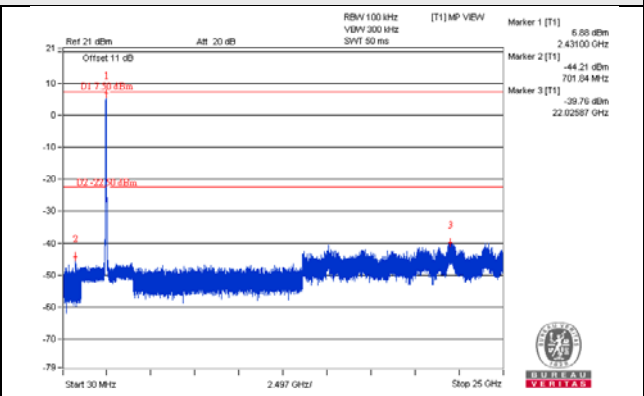
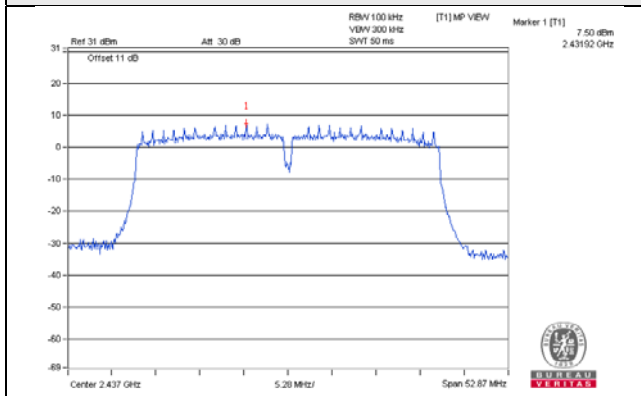


802.11n (HT40)\_Chain 1

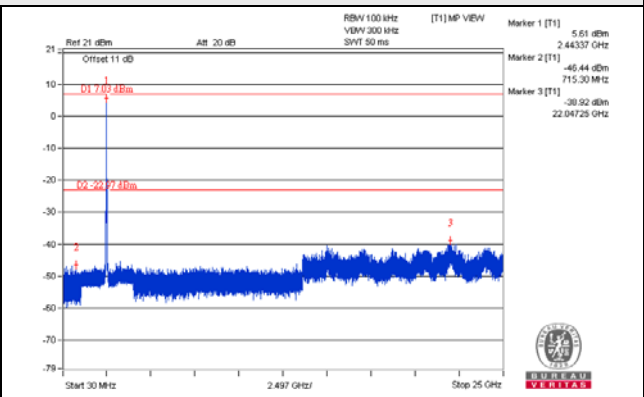
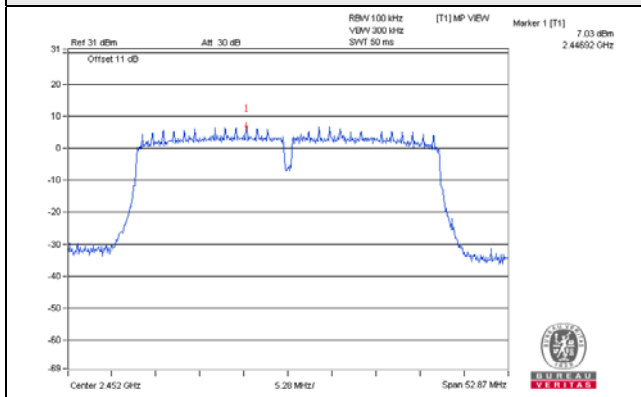
CH 3



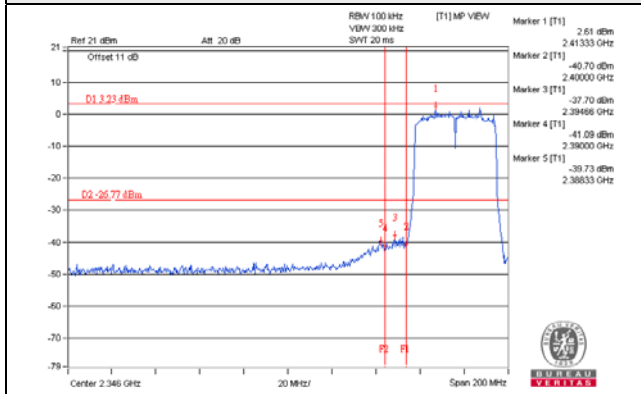
CH 6



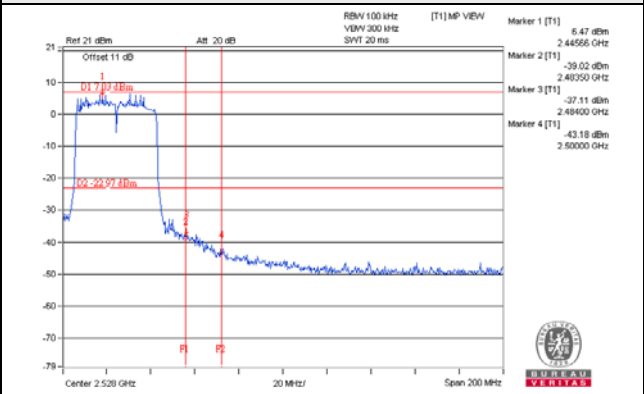
CH 9



CH 3 Band edge

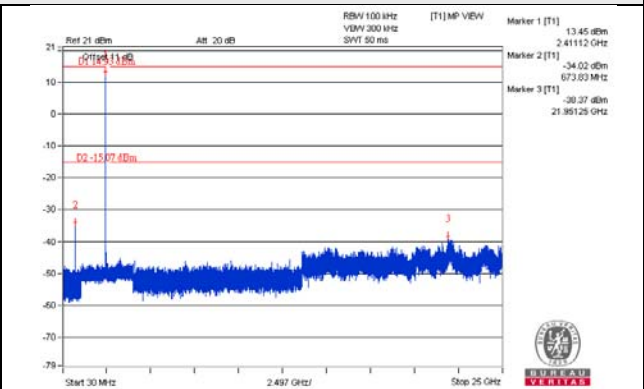
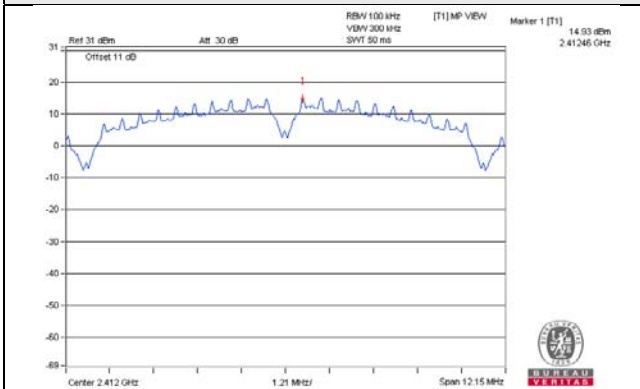


CH 9 Band edge

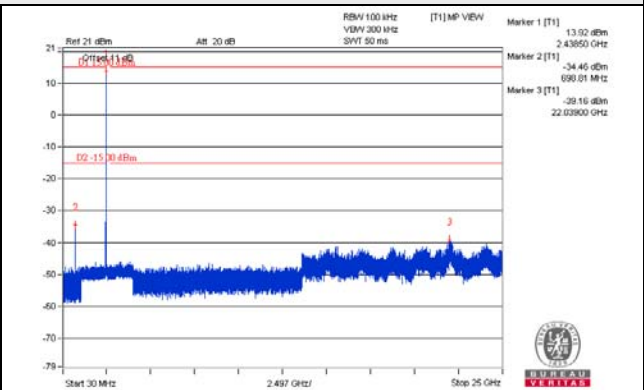
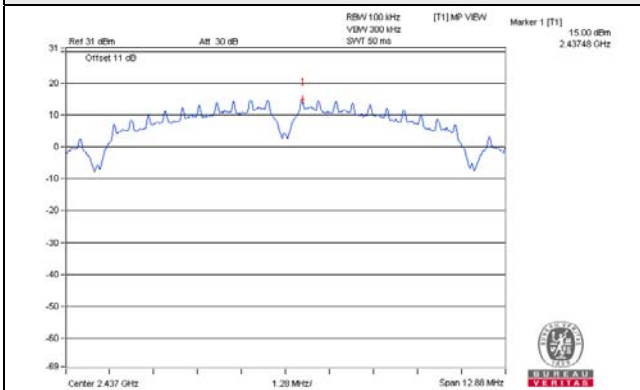


Test Mode E  
802.11b\_Chain 0

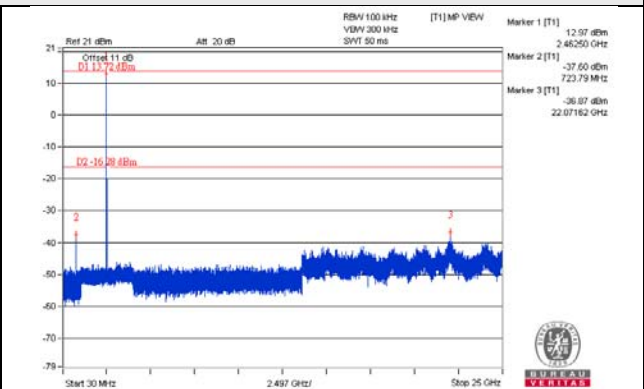
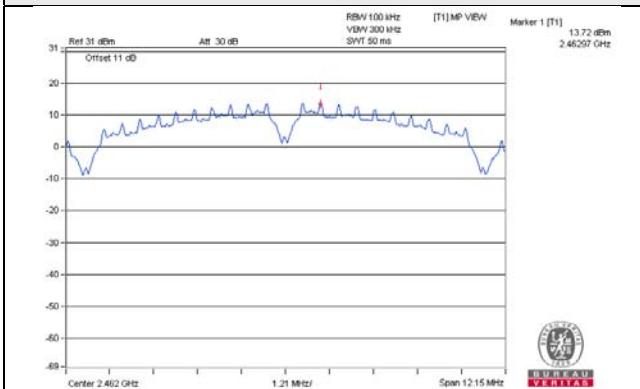
CH 1



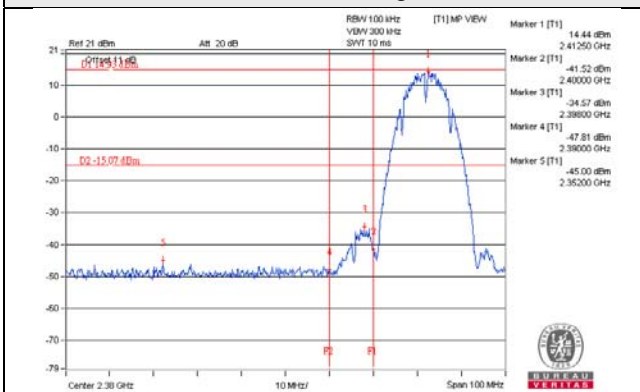
CH 6



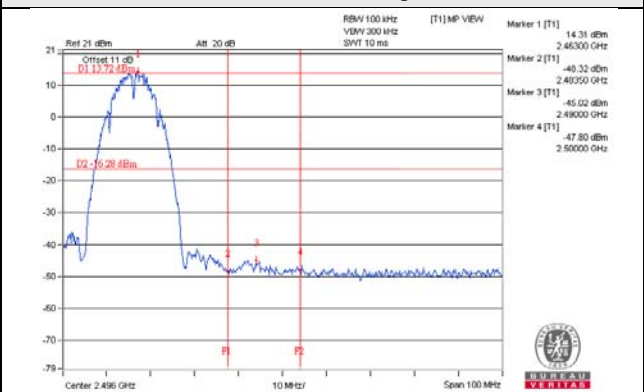
CH 11



CH 1 Band edge

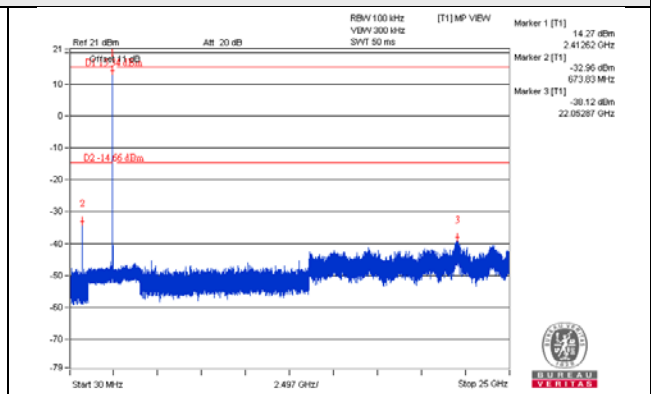
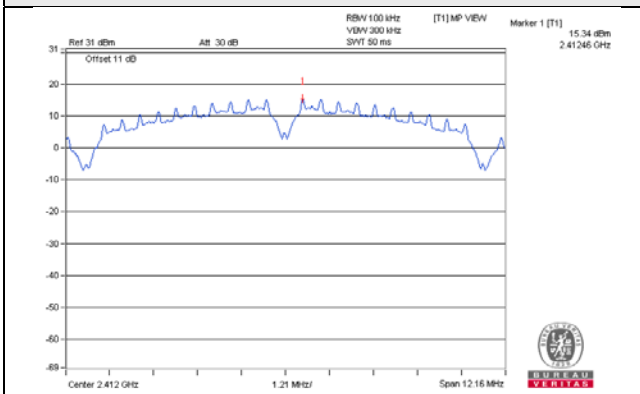


CH 11 Band edge

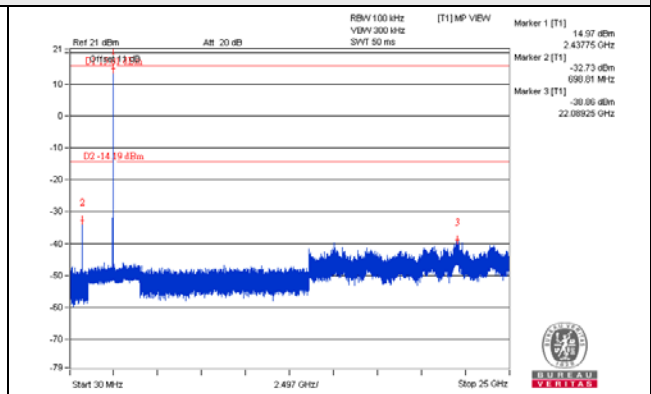
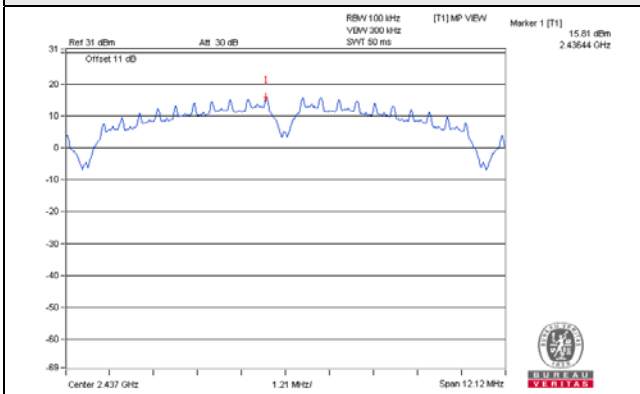


802.11b\_Chain 1

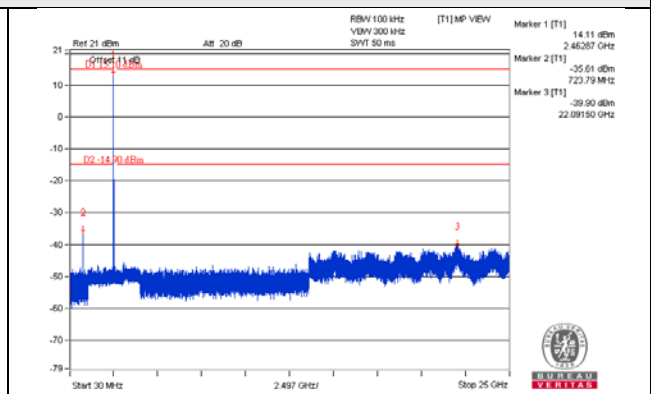
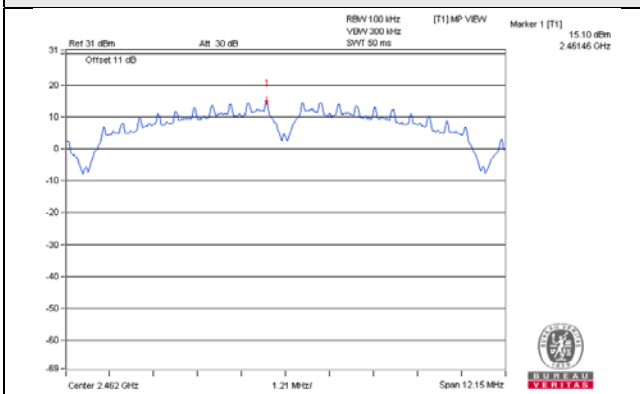
CH 1



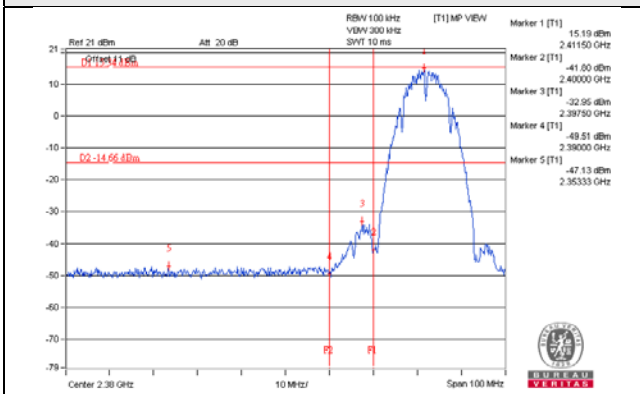
CH 6



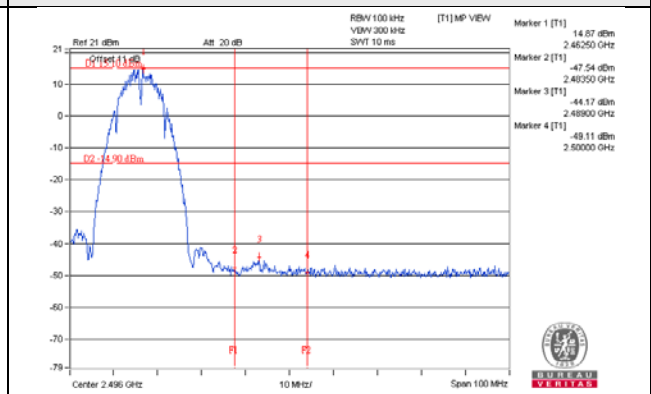
CH 11



CH 1 Band edge

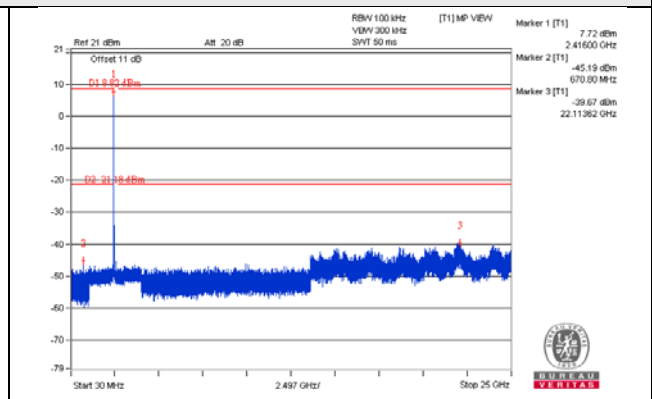
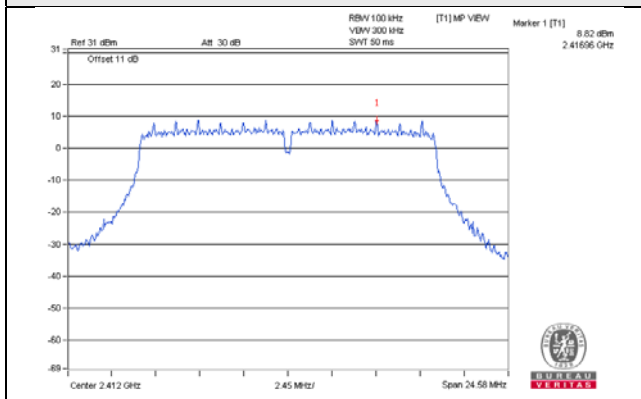


CH 11 Band edge

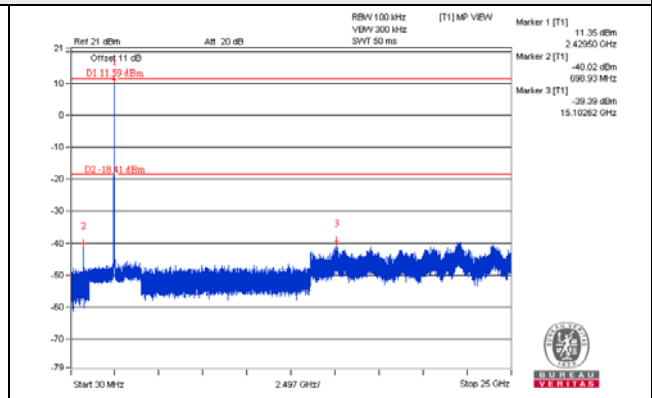
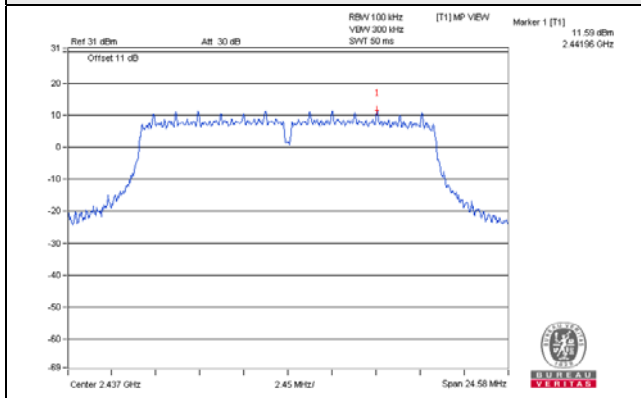


802.11g\_Chain 0

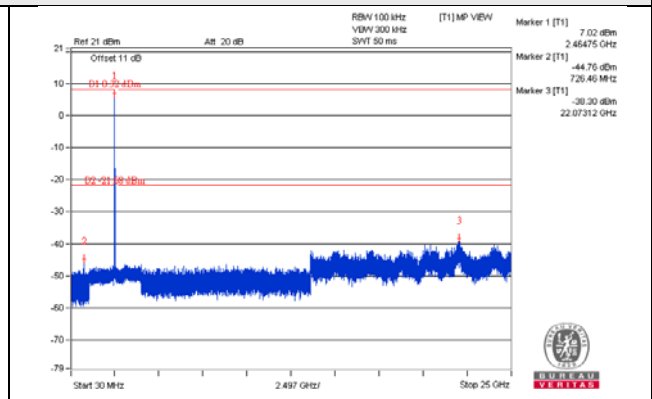
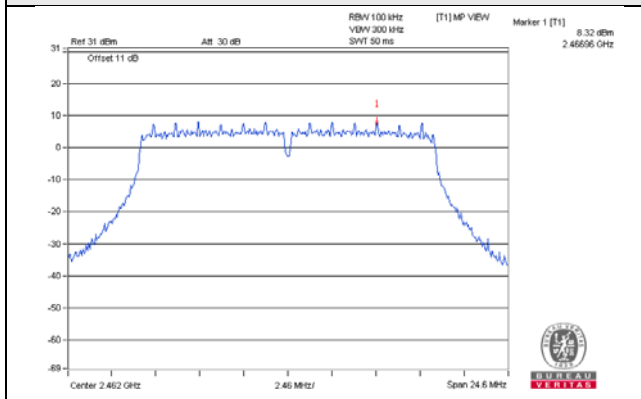
CH 1



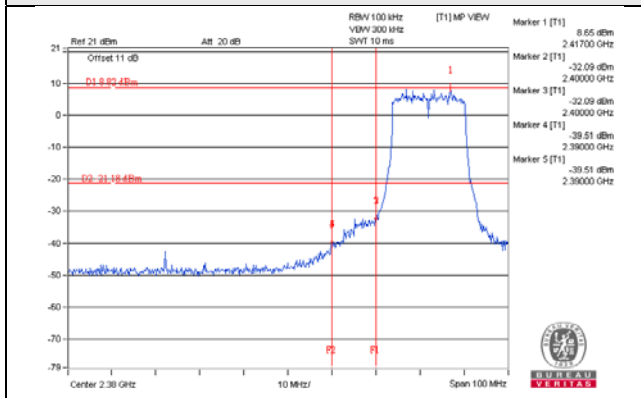
CH 6



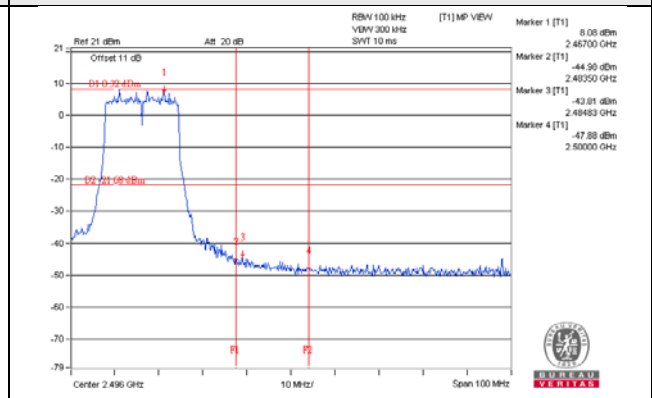
CH 11



CH 1 Band edge



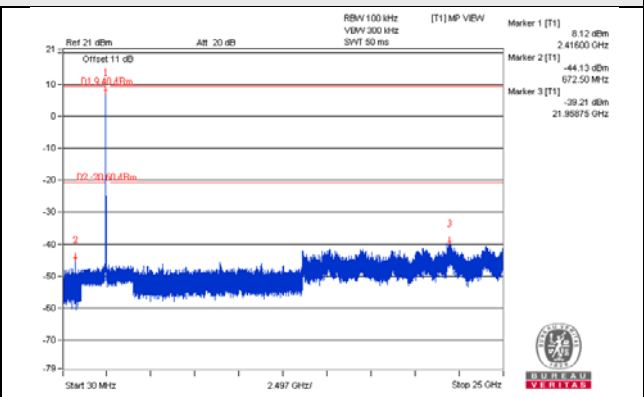
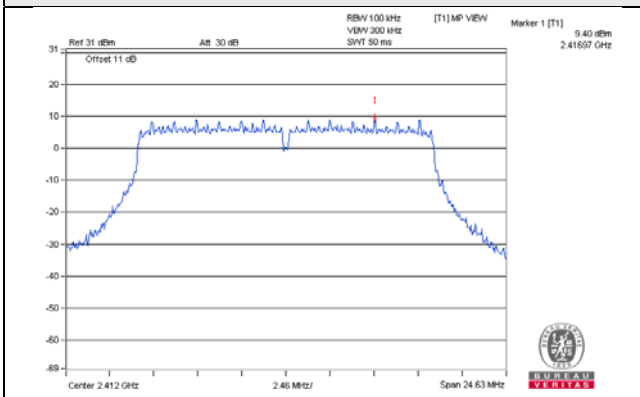
CH 11 Band edge



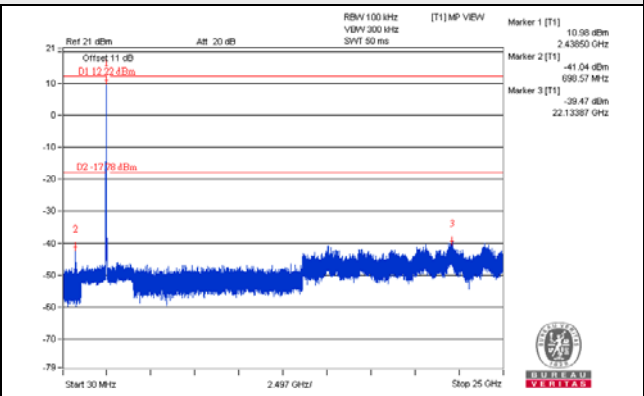
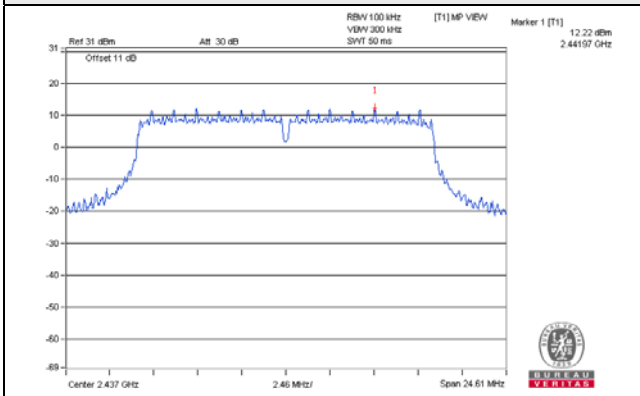


802.11g\_Chain 1

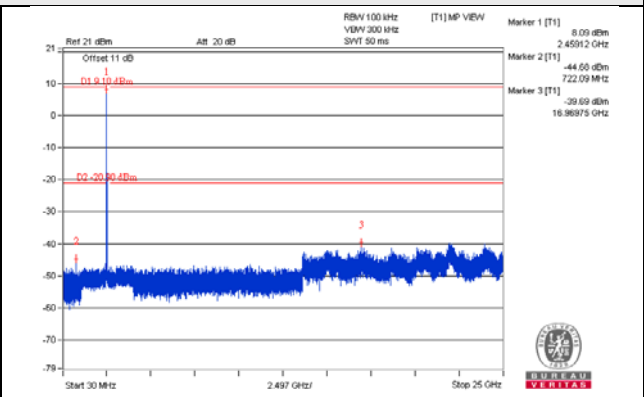
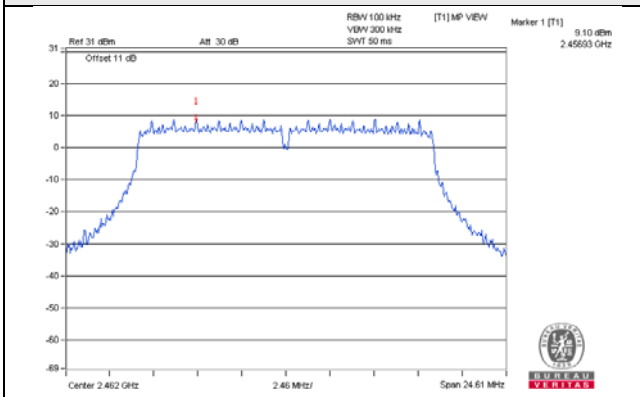
CH 1



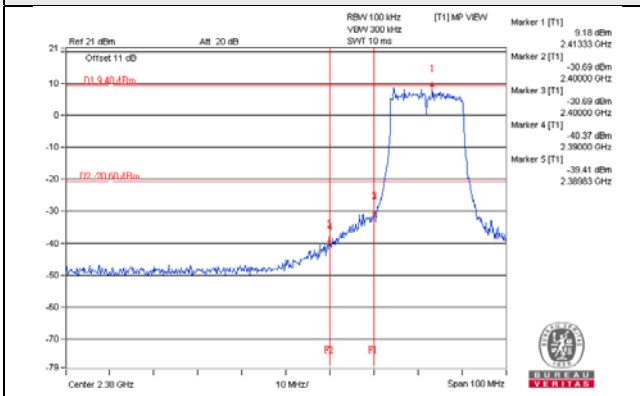
CH 6



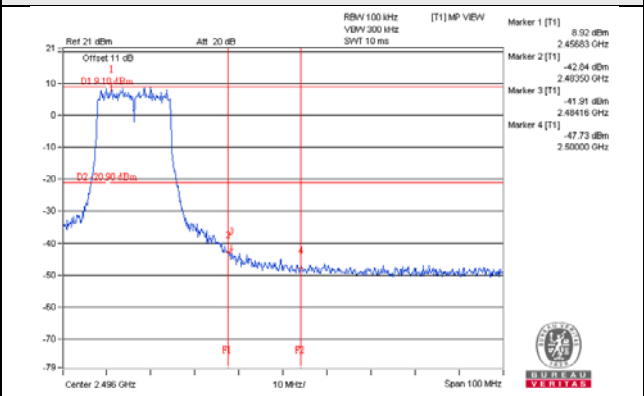
CH 11



CH 1 Band edge

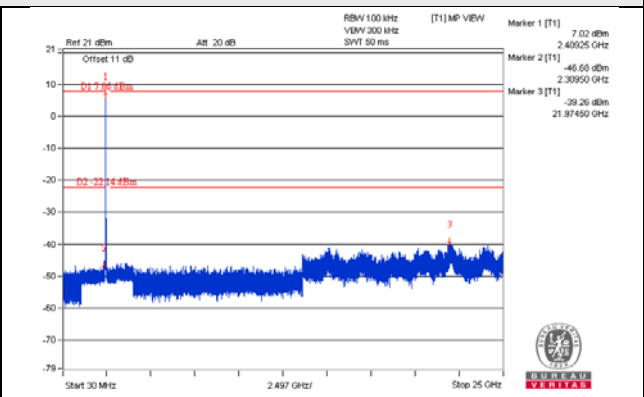
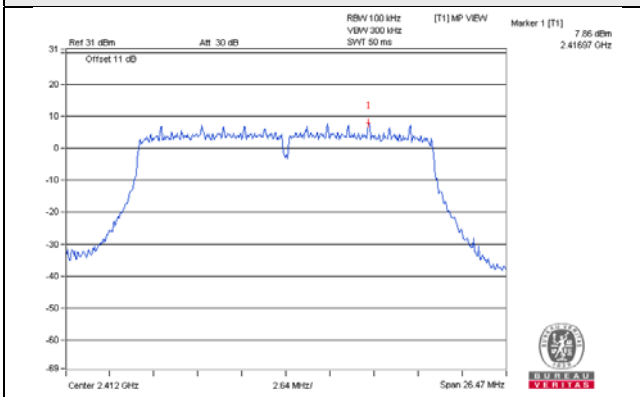


CH 11 Band edge

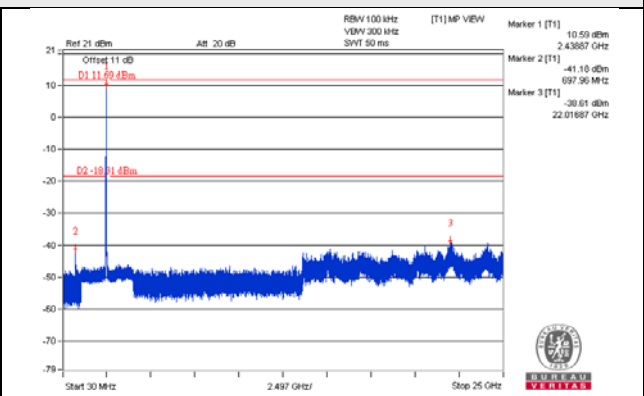
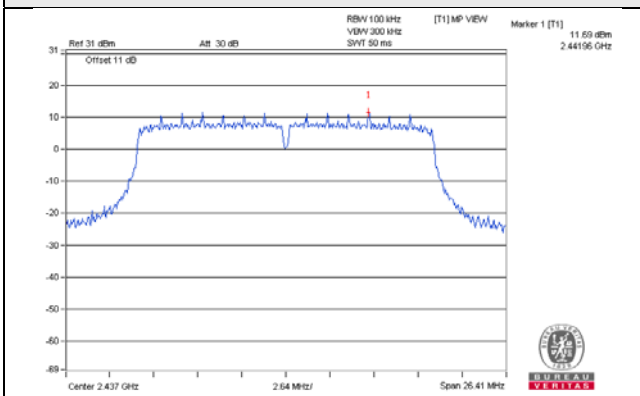


802.11n (HT20)\_Chain 0

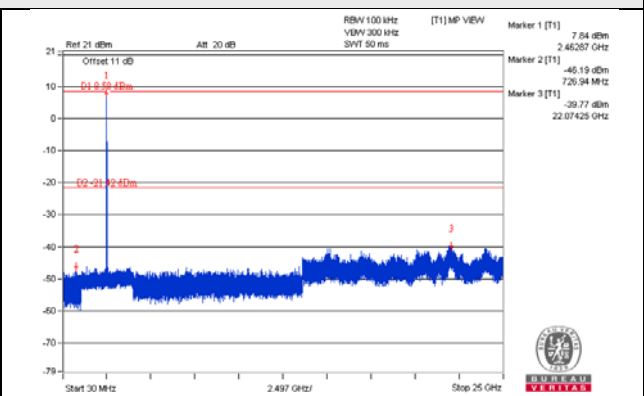
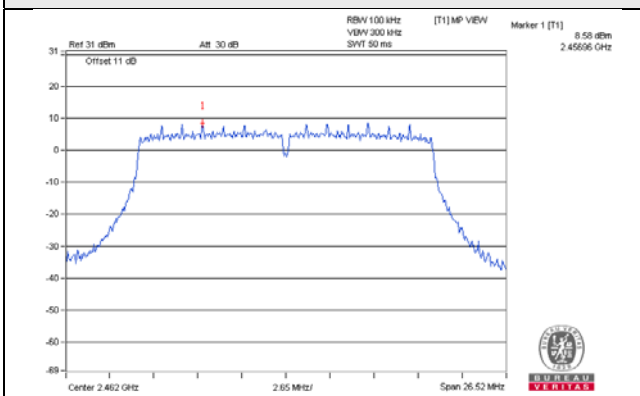
CH 1



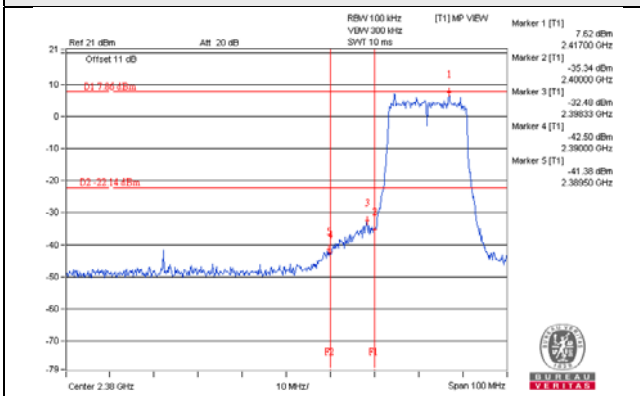
CH 6



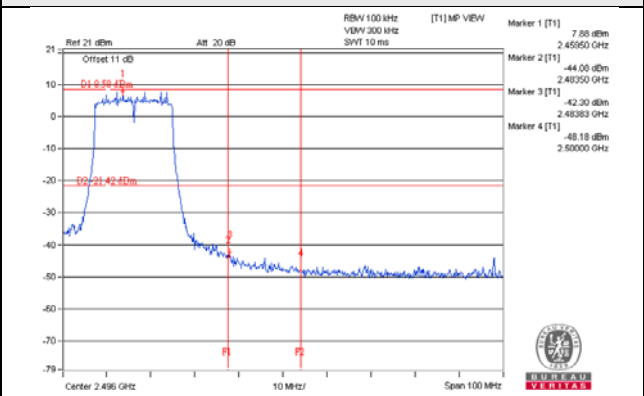
CH 11



CH 1 Band edge

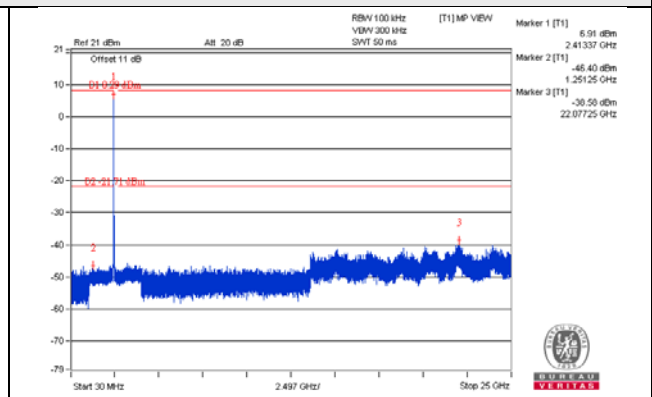
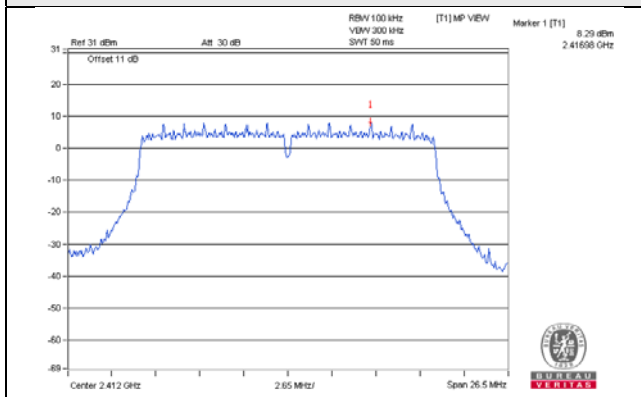


CH 11 Band edge

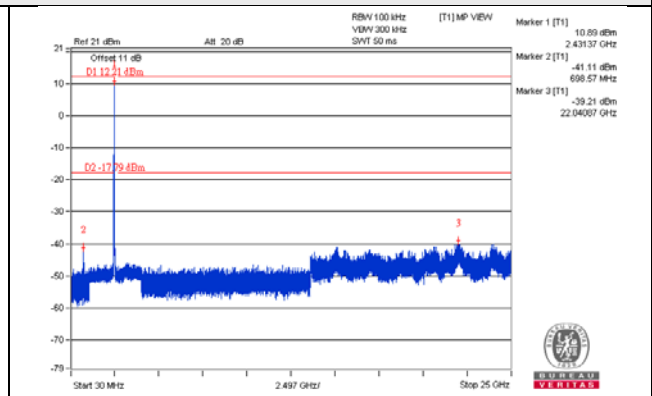
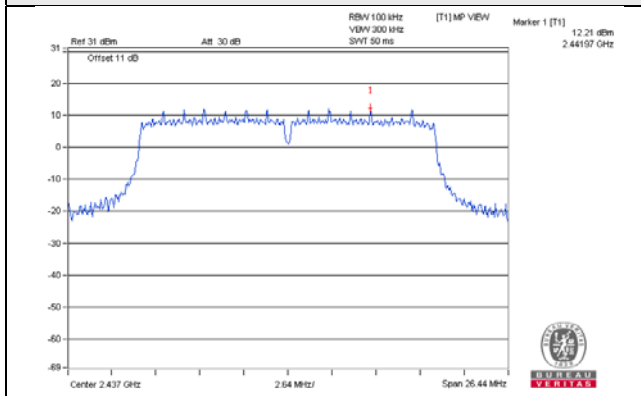


802.11n (HT20)\_Chain 1

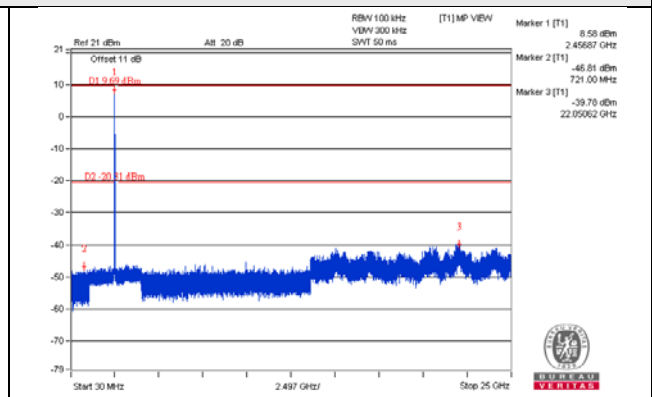
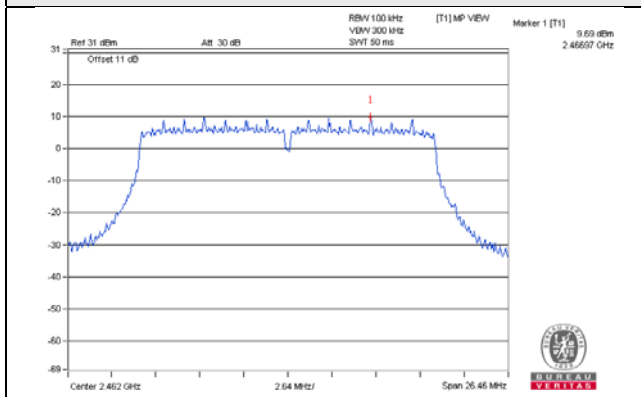
CH 1



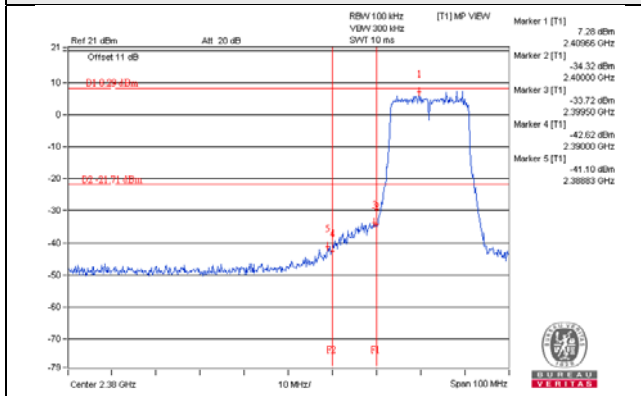
CH 6



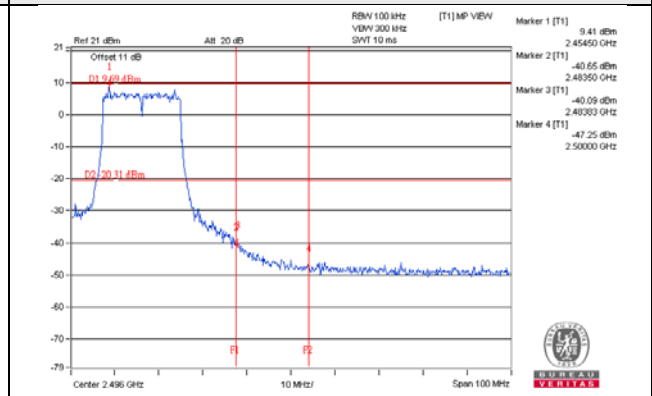
CH 11



CH 1 Band edge

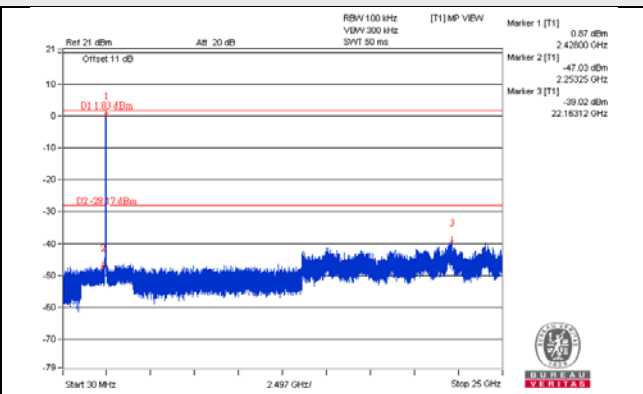
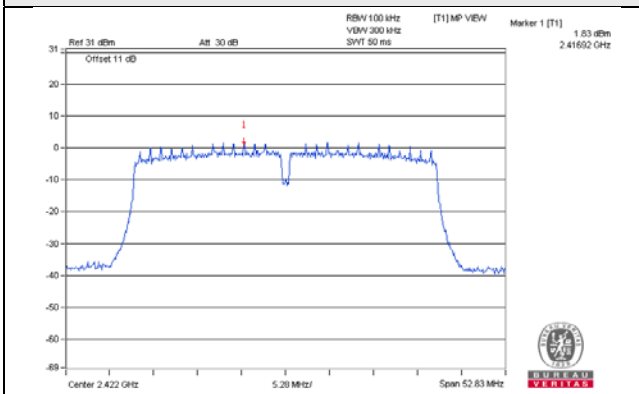


CH 11 Band edge

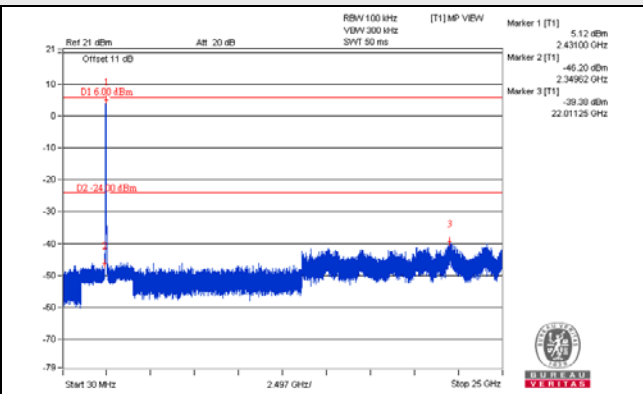
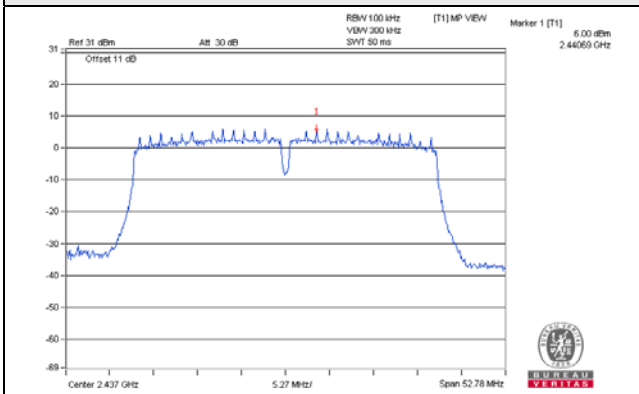


802.11n (HT40)\_Chain 0

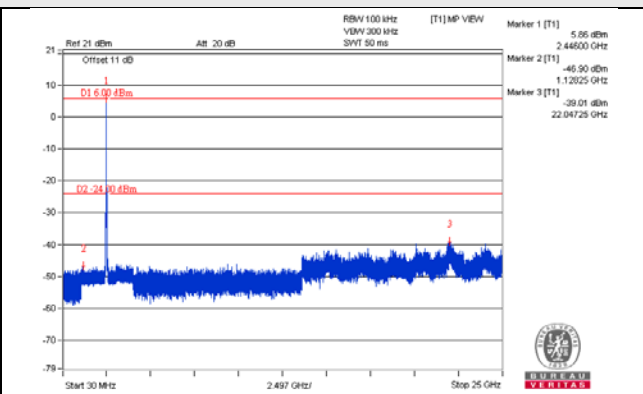
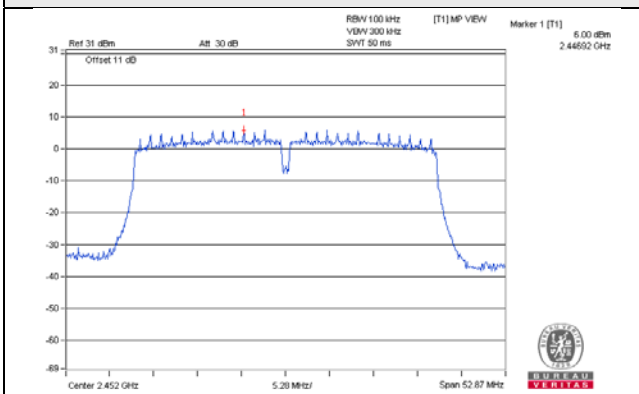
CH 3



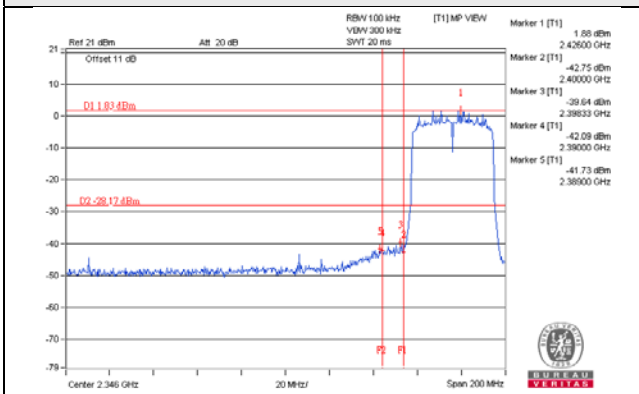
CH 6



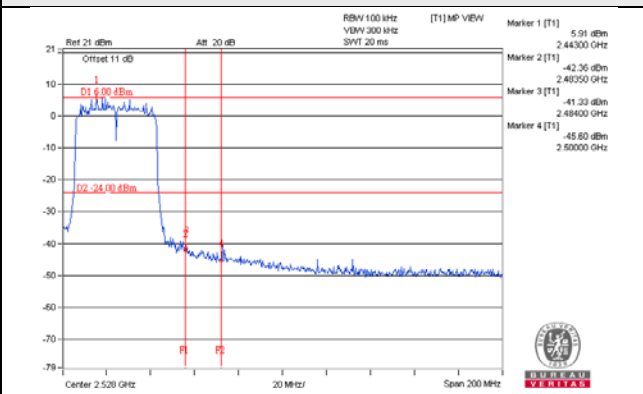
CH 9



CH 3 Band edge

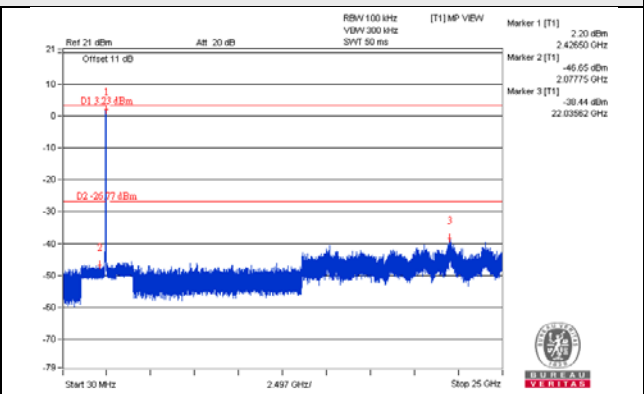
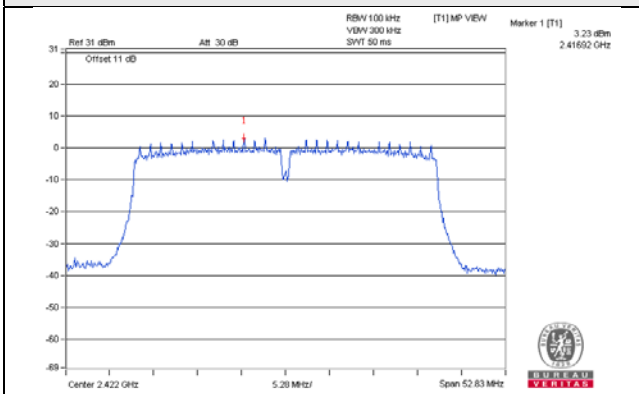


CH 9 Band edge

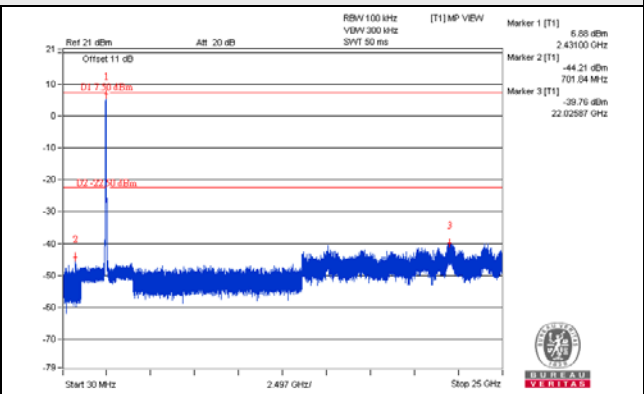
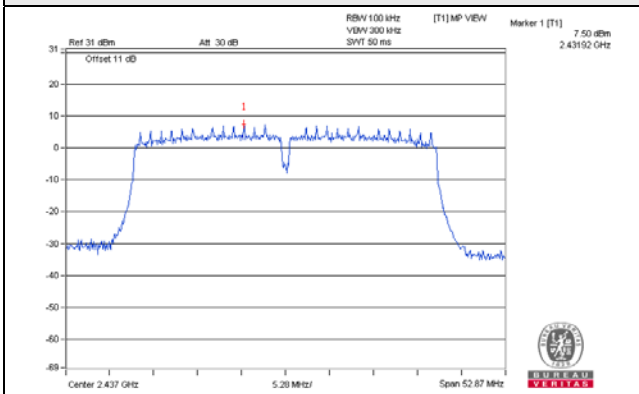


### 802.11n (HT40)\_Chain 1

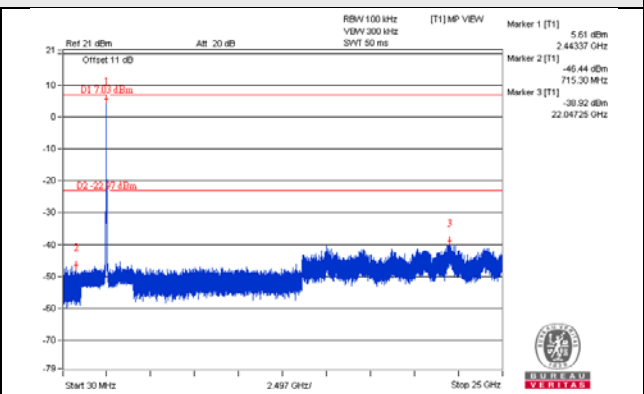
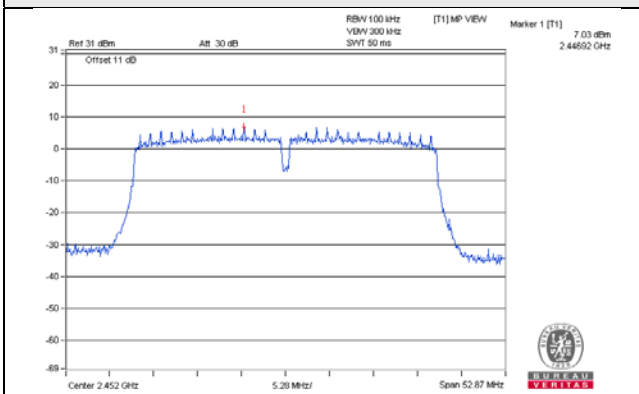
#### CH 3



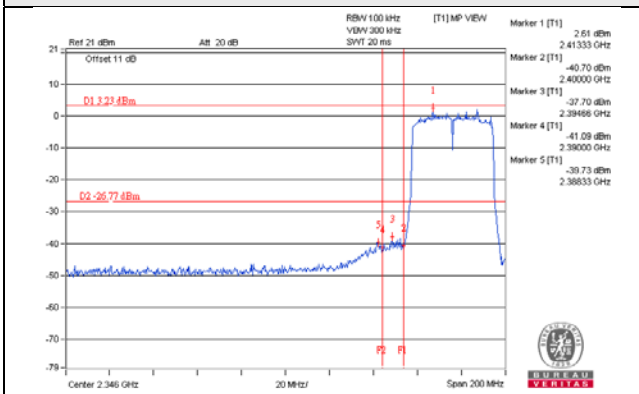
#### CH 6



#### CH 9



#### CH 3 Band edge



#### CH 9 Band edge

