

FCC Test Report (WLAN)

Report No.: RF170907E01

FCC ID: MQT-AT15017U

Test Model: xCL_AT-150-17U

Received Date: Sep. 07, 2017

Test Date: Sep. 21 to 27, 2017

Issued Date: Oct. 05, 2017

Applicant: XAC AUTOMATION CORP.

Address: 4F, No. 30, INDUSTRY E. RD. IX, SCIENCE-BASED INDUSTRIAL
PARK,HSINCHU,TAIWAN

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

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan R.O.C.

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan R.O.C.



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Release Control Record

Issue No.	Description	Date Issued
RF170907E01	Original release.	Oct. 05, 2017

1 Certificate of Conformity

Product: Terminal

Brand: XAC

Test Model: xCL_AT-150-17U

Sample Status: ENGINEERING SAMPLE

Applicant: XAC AUTOMATION CORP.

Test Date: Sep. 21 to 27, 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 : Mary Ko , **Date:** Oct. 05, 2017
Mary Ko / Specialist

Approved by : May Chen , **Date:** Oct. 05, 2017
May Chen / 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 -8.38dB at 2.71094MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -0.1dB at 2483.5MHz, 2390MHz.
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	No antenna connector is used.

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	1.84 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	5.30 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	5.16 dB
	6GHz ~ 18GHz	4.91 dB
	18GHz ~ 40GHz	5.30 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT (WLAN)

Product	Terminal
Brand	XAC
Test Model	xCL AT-150-17U
Status of EUT	ENGINEERING SAMPLE
Power Supply Rating	DC 3.85V from battery or DC 5V from USB interface
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b: up to 11Mbps 802.11g: up to 54Mbps 802.11n: up to 150Mbps
Operating Frequency	2.412 ~ 2.462GHz
Number of Channel	802.11b, 802.11g, 802.11n (HT20): 11 802.11n (HT40): 7
Output Power	328.852mW
Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	Li-ion Battery x1 (option)
Data Cable Supplied	NA

Note:

1. There are WLAN, WWAN, Bluetooth and NFC technology used for the EUT.
2. Simultaneously transmission condition.

Condition	Technology		
1	WLAN (2.4GHz)	Bluetooth	NFC
2	WWAN module (FCC ID: QISMU509-65)	NFC	

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

3. The antennas provided to the EUT, please refer to the following table:

WWAN Antenna Spec.					
Brand	Model	Ant. Gain (dBi)	Frequency range (MHz)	Antenna Type	Antenna Connector
INPAQ	WA-F-US-02-002	0.24	FDD 2: US(1850 -1910)	PCB	i-pex(MHF)
		-1.78	FDD 5: US(824-849)		
WLAN / Bluetooth Antenna Spec.					
Brand	Model	Ant. Gain (dBi)	Frequency range (MHz)	Antenna Type	Antenna Connector
ACX	AT3216-T2R4PAAT/LF	1.5	2400MHz~2500	chip	none
RFID Antenna Spec.					
Brand	Model	Ant. Gain (dBi)	Frequency range (MHz)	Antenna Type	Antenna Connector
XAC	ASM T103P	13	13.56MHz	Wire	none

4. The EUT power needs to be supplied from one power adapter or battery, the information is as below table:

Power adapter (only for test not for sale)			
Brand	Model Name	Specification	
MASS POWER	NBS10B050200VEU	Input: AC100-240V, 0.3A, 50~60Hz Output: DC 5V, 2A DC output cable (Shielded, 1.2 m)	
Li-ion Battery (option)			
Brand	Model Name	Specification	Remark
TWS	E200NP	3.85V, 2900mAh, 11.17Wh	Black

5. For radiated emissions, the EUT was pre-tested under the following modes:

Test Mode	Description
Mode A	Power from laptop
Mode B	Power from adapter
Mode C	Power from battery

From the above modes, the worst case was found in **Mode A**. Therefore only the test data of the mode was recorded in this report.

6. The EUT incorporates a SISO function.

MODULATION MODE	DATA RATE (MCS)	TX & RX CONFIGURATION	
802.11b	1 ~ 11Mbps	1TX	1RX
802.11g	6 ~ 54Mbps	1TX	1RX
802.11n (HT20)	MCS 0~7	1TX	1RX
802.11n (HT40)	MCS 0~7	1TX	1RX

7. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

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	
1	√	√	√	√	Power from laptop
2	-	-	√	-	Power from adapter

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: “-” 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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	6	OFDM	BPSK	6

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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	6	OFDM	BPSK	6

Antenna Port Conducted 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.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	6.5
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	13.5

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (system)	TESTED BY
RE $\geq$ 1G	24deg. C, 65%RH	120Vac, 60Hz	JyunChun Lin
RE<1G	23deg. C, 63%RH	120Vac, 60Hz	JyunChun Lin
PLC	26deg. C, 73%RH	120Vac, 60Hz	Andy Ho
APCM	25deg. C, 60%RH	120Vac, 60Hz	Robert Cheng

3.3 Duty Cycle of Test Signal

If duty cycle of test signal is $\geq 98\%$, duty factor is not required.

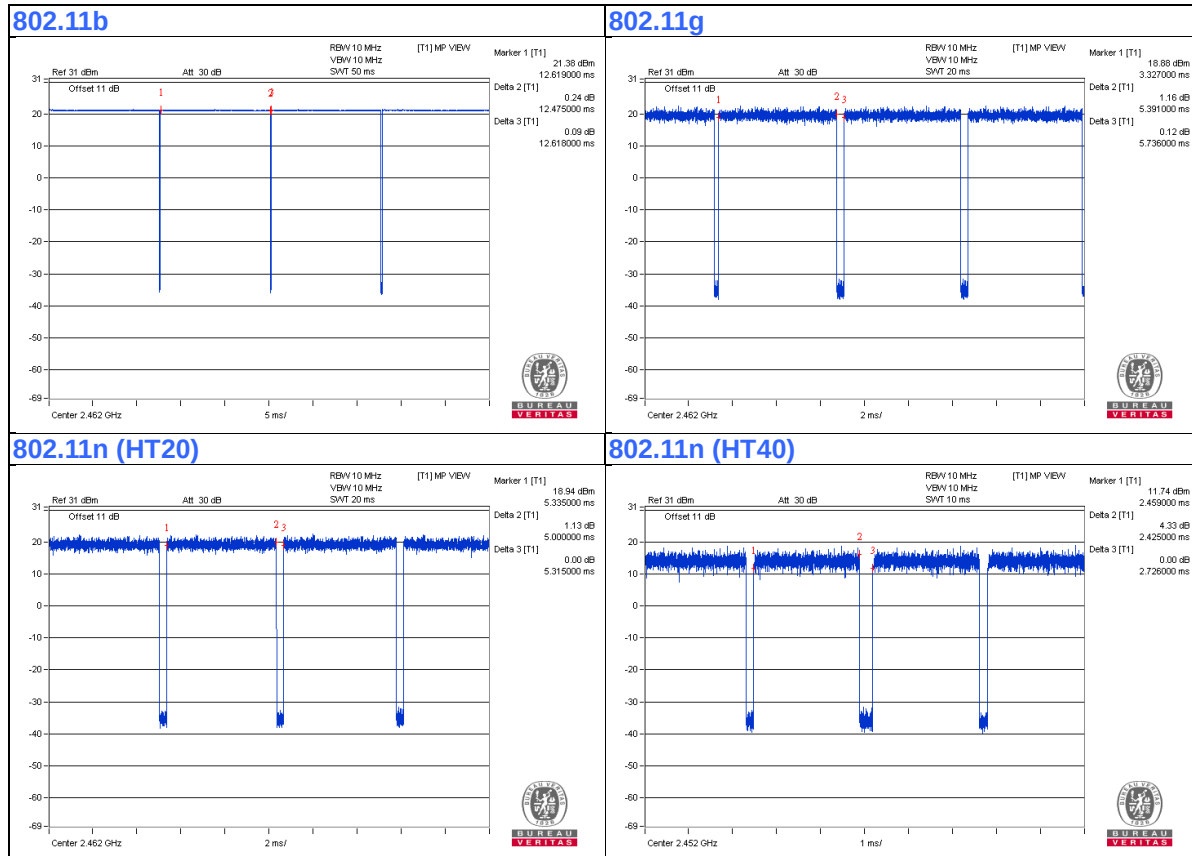
If duty cycle of test signal is $< 98\%$, duty factor shall be considered.

802.11b: Duty cycle = $12.475/12.618 = 0.989$

802.11g: Duty cycle = $5.391/5.736 = 0.94$, Duty factor = $10 * \log(1/0.94) = 0.27$

802.11n (HT20): Duty cycle = $5/5.315 = 0.941$, Duty factor = $10 * \log(1/0.941) = 0.27$

802.11n (HT40): Duty cycle = $2.425/2.726 = 0.89$, Duty factor = $10 * \log(1/0.89) = 0.51$



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.	Laptop	HP	Pavilion 14-ab023TU	5CD5340WXZ	NA	Provided by Lab
B.	SIM Card	NA	NA	NA	NA	Supplied by client
C.	IC Card	NA	NA	NA	NA	Supplied by client
D.	Magnetic Card	NA	NA	NA	NA	Supplied by client
E.	NFC Card	NA	NA	NA	NA	Supplied by client
F.	SAM Card	NA	NA	NA	NA	Supplied by client
G.	Adapter	MASS	NBS10B050200VEU	NA	NA	Supplied by client

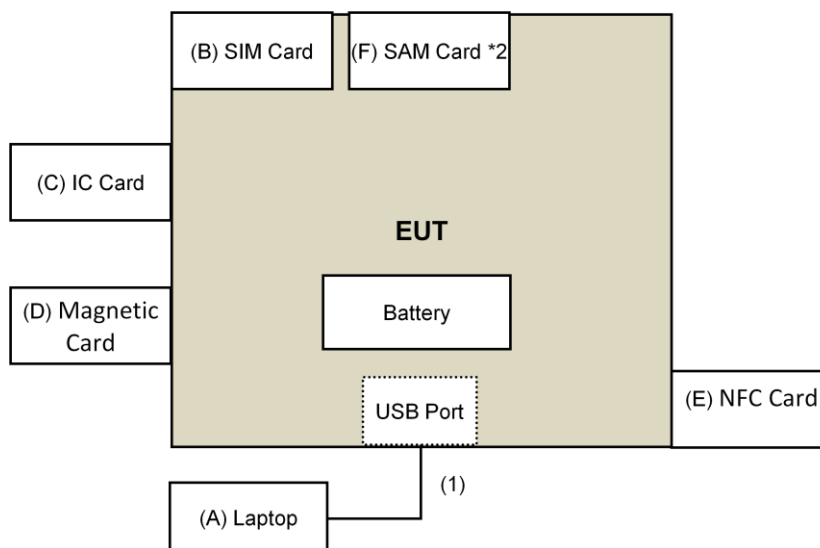
Note:

1. All power cords of the above support units are non-shielded (1.8m).

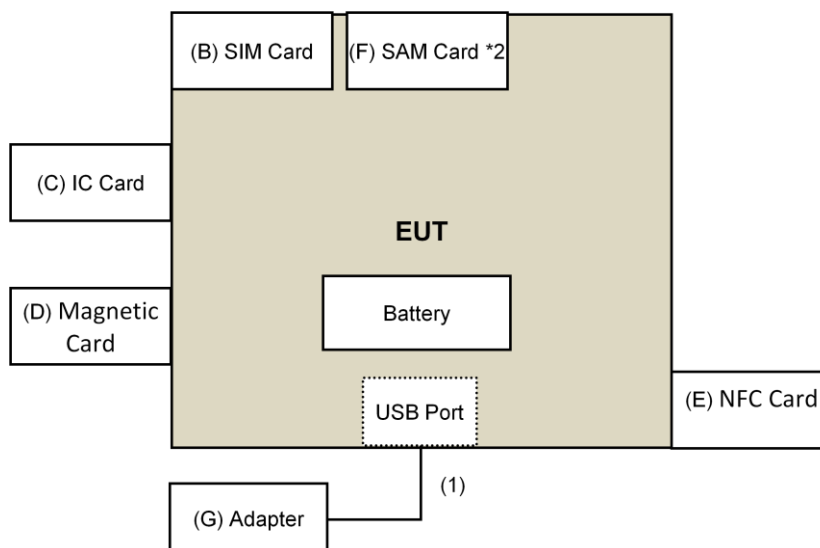
ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB Cable	1	1.2	Yes	0	Supplied by client

3.4.1 Configuration of System under Test

Mode 1:



Mode 2:



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
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 20dB 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 20dB under any condition of modulation.

4.1.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 08, 2017	July 07, 2018
Pre-Amplifier ^(*) EMCI	EMC001340	980142	Jan. 20, 2016	Jan. 19, 2018
Loop Antenna ^(*) Electro-Metrics	EM-6879	264	Dec. 16, 2016	Dec. 15, 2018
RF Cable	NA	LOOPCAB-001 LOOPCAB-002	Jan. 17, 2017	Jan. 16, 2018
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-01	Nov. 10, 2016	Nov. 09, 2017
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-406	Dec. 13, 2016	Dec. 12, 2017
RF Cable	8D	966-4-1 966-4-2 966-4-3	Apr. 01, 2017	Mar. 31, 2018
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-4-01	Oct. 05, 2016	Oct. 04, 2017
Horn_Antenna SCHWARZBECK	BBHA 9120D	9120D-783	Dec. 27, 2016	Dec. 26, 2017
Pre-Amplifier EMCI	EMC12630SE	980385	Feb. 02, 2017	Feb. 01, 2018
RF Cable	EMC104-SM-SM-1200 EMC104-SM-SM-2000 EMC104-SM-SM-5000	160923 150318 150321	Feb. 02, 2017 Mar. 29, 2017 Mar. 29, 2017	Feb. 01, 2018 Mar. 28, 2018 Mar. 28, 2018
Pre-Amplifier EMCI	EMC184045SE	980387	Feb. 02, 2017	Feb. 01, 2018
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170608	Dec. 15, 2016	Dec. 14, 2017
RF Cable	SUCOFLEX 102	36432/2 36433/2	Jan. 15, 2017	Jan. 14, 2018
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208410	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP02	NA	NA
Spectrum Analyzer R&S	FSV40	100964	July 1, 2017	June 30, 2018
Power meter Anritsu	ML2495A	1014008	May 11, 2017	May 10, 2018
Power sensor Anritsu	MA2411B	0917122	May 11, 2017	May 10, 2018

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 calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in 966 Chamber No. 4.
4. Loop antenna was used for all emissions below 30 MHz.
5. The FCC Designation Number is TW2022. The number will be varied with the Lab location and scope as attached.
6. The CANADA Site Registration No. is 20331-2
7. Tested Date: Sep. 21, 2017.

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:

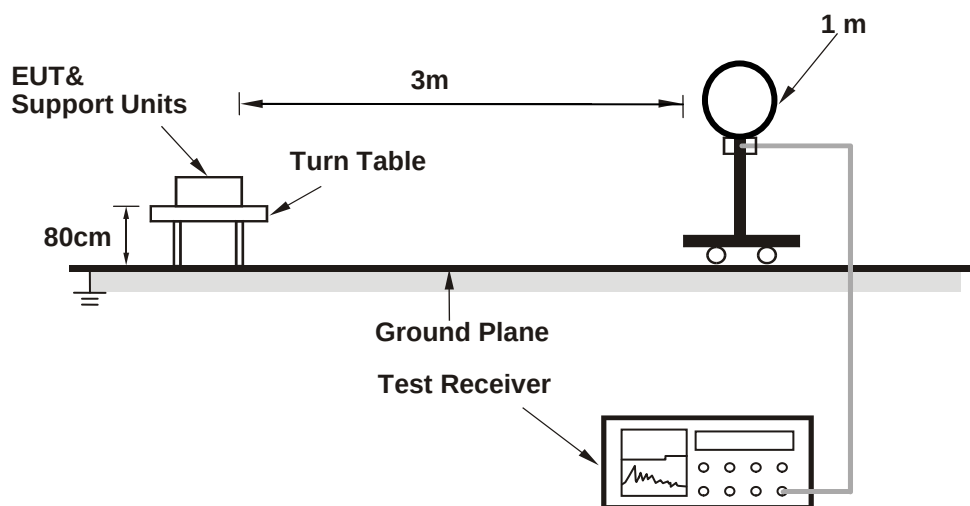
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) 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

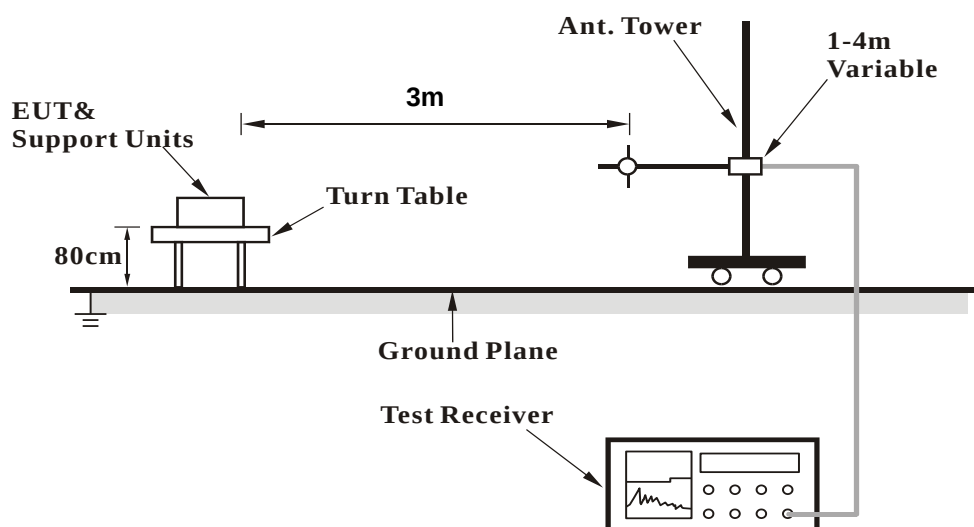
No deviation.

4.1.5 Test Setup

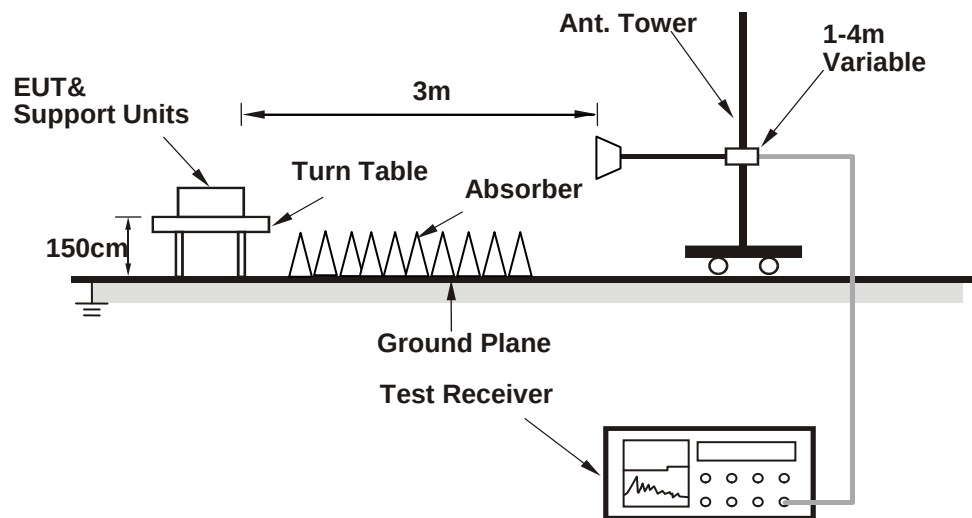
For Radiated emission below 30MHz



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

- Placed the EUT on the testing table.
- Controlling software (WLAN Test.exe[Ver 1.9.0]) has been activated to set the EUT on specific status.

4.1.7 Test Results

Above 1GHz Data:

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	61.2 PK	74.0	-12.8	1.00 H	53	62.5	-1.3
2	2390.00	53.8 AV	54.0	-0.2	1.00 H	53	55.1	-1.3
3	*2412.00	106.8 PK			1.00 H	53	107.9	-1.1
4	*2412.00	104.4 AV			1.00 H	53	105.5	-1.1
5	4824.00	38.1 PK	74.0	-35.9	1.11 H	4	34.9	3.2
6	4824.00	29.5 AV	54.0	-24.5	1.11 H	4	26.3	3.2
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	58.7 PK	74.0	-15.3	2.04 V	222	60.0	-1.3
2	2390.00	51.1 AV	54.0	-2.9	2.04 V	222	52.4	-1.3
3	*2412.00	104.3 PK			2.04 V	222	105.4	-1.1
4	*2412.00	102.1 AV			2.04 V	222	103.2	-1.1
5	4824.00	39.3 PK	74.0	-34.7	1.00 V	97	36.1	3.2
6	4824.00	30.1 AV	54.0	-23.9	1.00 V	97	26.9	3.2

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
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	58.6 PK	74.0	-15.4	1.00 H	58	59.9	-1.3
2	2390.00	49.4 AV	54.0	-4.6	1.00 H	58	50.7	-1.3
3	*2437.00	109.1 PK			1.00 H	58	110.3	-1.2
4	*2437.00	106.8 AV			1.00 H	58	108.0	-1.2
5	2483.50	60.5 PK	74.0	-13.5	1.00 H	58	61.5	-1.0
6	2483.50	53.5 AV	54.0	-0.5	1.00 H	58	54.5	-1.0
7	4874.00	39.9 PK	74.0	-34.1	1.15 H	13	36.6	3.3
8	4874.00	31.4 AV	54.0	-22.6	1.15 H	13	28.1	3.3
9	7311.00	48.1 PK	74.0	-25.9	1.15 H	112	38.3	9.8
10	7311.00	40.7 AV	54.0	-13.3	1.15 H	112	30.9	9.8

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	2390.00	56.1 PK	74.0	-17.9	2.03 V	233	57.4	-1.3
2	2390.00	46.9 AV	54.0	-7.1	2.03 V	233	48.2	-1.3
3	*2437.00	106.8 PK			2.03 V	233	108.0	-1.2
4	*2437.00	104.6 AV			2.03 V	233	105.8	-1.2
5	2483.50	58.7 PK	74.0	-15.3	2.03 V	233	59.7	-1.0
6	2483.50	51.1 AV	54.0	-2.9	2.03 V	233	52.1	-1.0
7	4874.00	40.3 PK	74.0	-33.7	1.00 V	94	37.0	3.3
8	4874.00	32.0 AV	54.0	-22.0	1.00 V	94	28.7	3.3
9	7311.00	51.2 PK	74.0	-22.8	1.00 V	201	41.4	9.8
10	7311.00	45.4 AV	54.0	-8.6	1.00 V	201	35.6	9.8

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	106.5 PK			1.00 H	58	107.6	-1.1
2	*2462.00	104.1 AV			1.00 H	58	105.2	-1.1
3	2483.50	60.6 PK	74.0	-13.4	1.00 H	58	61.6	-1.0
4	2483.50	53.6 AV	54.0	-0.4	1.00 H	58	54.6	-1.0
5	4924.00	37.6 PK	74.0	-36.4	1.06 H	12	34.1	3.5
6	4924.00	29.3 AV	54.0	-24.7	1.06 H	12	25.8	3.5
7	7386.00	45.8 PK	74.0	-28.2	1.17 H	124	35.9	9.9
8	7386.00	38.4 AV	54.0	-15.6	1.17 H	124	28.5	9.9
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	104.2 PK			1.98 V	231	105.3	-1.1
2	*2462.00	101.9 AV			1.98 V	231	103.0	-1.1
3	2483.50	58.2 PK	74.0	-15.8	1.98 V	231	59.2	-1.0
4	2483.50	51.1 AV	54.0	-2.9	1.98 V	231	52.1	-1.0
5	4924.00	39.9 PK	74.0	-34.1	1.03 V	111	36.4	3.5
6	4924.00	30.5 AV	54.0	-23.5	1.03 V	111	27.0	3.5
7	7386.00	48.9 PK	74.0	-25.1	1.04 V	214	39.0	9.9
8	7386.00	43.1 AV	54.0	-10.9	1.04 V	214	33.2	9.9

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
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	2390.00	67.6 PK	74.0	-6.4	1.00 H	59	68.9	-1.3
2	2390.00	53.5 AV	54.0	-0.5	1.00 H	59	54.8	-1.3
3	*2412.00	107.7 PK			1.00 H	59	108.8	-1.1
4	*2412.00	97.5 AV			1.00 H	59	98.6	-1.1
5	4824.00	38.1 PK	74.0	-35.9	1.15 H	0	34.9	3.2
6	4824.00	25.7 AV	54.0	-28.3	1.15 H	0	22.5	3.2
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	65.1 PK	74.0	-8.9	2.00 V	242	66.4	-1.3
2	2390.00	51.0 AV	54.0	-3.0	2.00 V	242	52.3	-1.3
3	*2412.00	105.4 PK			2.00 V	242	106.5	-1.1
4	*2412.00	95.3 AV			2.00 V	242	96.4	-1.1
5	4824.00	38.5 PK	74.0	-35.5	1.02 V	77	35.3	3.2
6	4824.00	25.9 AV	54.0	-28.1	1.02 V	77	22.7	3.2

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
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	68.6 PK	74.0	-5.4	1.00 H	58	69.9	-1.3
2	2390.00	52.7 AV	54.0	-1.3	1.00 H	58	54.0	-1.3
3	*2437.00	111.4 PK			1.00 H	58	112.6	-1.2
4	*2437.00	101.8 AV			1.00 H	58	103.0	-1.2
5	2483.50	70.5 PK	74.0	-3.5	1.00 H	58	71.5	-1.0
6	2483.50	53.9 AV	54.0	-0.1	1.00 H	58	54.9	-1.0
7	4874.00	37.8 PK	74.0	-36.2	1.19 H	0	34.5	3.3
8	4874.00	25.4 AV	54.0	-28.6	1.19 H	0	22.1	3.3
9	7311.00	48.2 PK	74.0	-25.8	1.19 H	106	38.4	9.8
10	7311.00	35.0 AV	54.0	-19.0	1.19 H	106	25.2	9.8

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	2390.00	66.1 PK	74.0	-7.9	1.95 V	256	67.4	-1.3
2	2390.00	50.2 AV	54.0	-3.8	1.95 V	256	51.5	-1.3
3	*2437.00	109.1 PK			1.95 V	256	110.3	-1.2
4	*2437.00	99.6 AV			1.95 V	256	100.8	-1.2
5	2483.50	68.1 PK	74.0	-5.9	1.95 V	256	69.1	-1.0
6	2483.50	51.4 AV	54.0	-2.6	1.95 V	256	52.4	-1.0
7	4874.00	38.1 PK	74.0	-35.9	1.05 V	80	34.8	3.3
8	4874.00	25.6 AV	54.0	-28.4	1.05 V	80	22.3	3.3
9	7311.00	51.2 PK	74.0	-22.8	1.02 V	206	41.4	9.8
10	7311.00	38.5 AV	54.0	-15.5	1.02 V	206	28.7	9.8

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			1.00 H	58	108.1	-1.1
2	*2462.00	96.6 AV			1.00 H	58	97.7	-1.1
3	2483.50	72.3 PK	74.0	-1.7	1.00 H	58	73.3	-1.0
4	2483.50	53.6 AV	54.0	-0.4	1.00 H	58	54.6	-1.0
5	4924.00	38.1 PK	74.0	-35.9	1.19 H	7	34.6	3.5
6	4924.00	25.4 AV	54.0	-28.6	1.19 H	7	21.9	3.5
7	7386.00	48.2 PK	74.0	-25.8	1.24 H	120	38.3	9.9
8	7386.00	35.2 AV	54.0	-18.8	1.24 H	120	25.3	9.9
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	104.8 PK			1.96 V	259	105.9	-1.1
2	*2462.00	94.5 AV			1.96 V	259	95.6	-1.1
3	2483.50	69.8 PK	74.0	-4.2	1.96 V	259	70.8	-1.0
4	2483.50	51.2 AV	54.0	-2.8	1.96 V	259	52.2	-1.0
5	4924.00	38.7 PK	74.0	-35.3	1.08 V	73	35.2	3.5
6	4924.00	26.1 AV	54.0	-27.9	1.08 V	73	22.6	3.5
7	7386.00	49.0 PK	74.0	-25.0	1.08 V	205	39.1	9.9
8	7386.00	35.8 AV	54.0	-18.2	1.08 V	205	25.9	9.9

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
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	69.4 PK	74.0	-4.6	1.00 H	58	70.7	-1.3
2	2390.00	53.7 AV	54.0	-0.3	1.00 H	58	55.0	-1.3
3	*2412.00	107.0 PK			1.00 H	58	108.1	-1.1
4	*2412.00	97.1 AV			1.00 H	58	98.2	-1.1
5	4824.00	37.9 PK	74.0	-36.1	1.18 H	0	34.7	3.2
6	4824.00	25.4 AV	54.0	-28.6	1.18 H	0	22.2	3.2
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	1.99 V	255	68.5	-1.3
2	2390.00	51.4 AV	54.0	-2.6	1.99 V	255	52.7	-1.3
3	*2412.00	104.9 PK			1.99 V	255	106.0	-1.1
4	*2412.00	94.9 AV			1.99 V	255	96.0	-1.1
5	4824.00	38.6 PK	74.0	-35.4	1.01 V	87	35.4	3.2
6	4824.00	26.3 AV	54.0	-27.7	1.01 V	87	23.1	3.2

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
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	68.5 PK	74.0	-5.5	1.00 H	58	69.8	-1.3
2	2390.00	53.3 AV	54.0	-0.7	1.00 H	58	54.6	-1.3
3	*2437.00	110.5 PK			1.00 H	58	111.7	-1.2
4	*2437.00	101.2 AV			1.00 H	58	102.4	-1.2
5	2483.50	69.9 PK	74.0	-4.1	1.00 H	58	70.9	-1.0
6	2483.50	53.8 AV	54.0	-0.2	1.00 H	58	54.8	-1.0
7	4874.00	38.4 PK	74.0	-35.6	1.16 H	0	35.1	3.3
8	4874.00	25.9 AV	54.0	-28.1	1.16 H	0	22.6	3.3
9	7311.00	48.2 PK	74.0	-25.8	1.25 H	94	38.4	9.8
10	7311.00	35.3 AV	54.0	-18.7	1.25 H	94	25.5	9.8

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	2390.00	66.1 PK	74.0	-7.9	1.94 V	257	67.4	-1.3
2	2390.00	50.8 AV	54.0	-3.2	1.94 V	257	52.1	-1.3
3	*2437.00	108.6 PK			1.94 V	257	109.8	-1.2
4	*2437.00	99.4 AV			1.94 V	257	100.6	-1.2
5	2483.50	67.5 PK	74.0	-6.5	1.94 V	257	68.5	-1.0
6	2483.50	51.4 AV	54.0	-2.6	1.94 V	257	52.4	-1.0
7	4874.00	37.7 PK	74.0	-36.3	1.04 V	95	34.4	3.3
8	4874.00	25.2 AV	54.0	-28.8	1.04 V	95	21.9	3.3
9	7311.00	50.9 PK	74.0	-23.1	1.00 V	218	41.1	9.8
10	7311.00	38.2 AV	54.0	-15.8	1.00 V	218	28.4	9.8

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	106.3 PK			1.00 H	58	107.4	-1.1
2	*2462.00	96.4 AV			1.00 H	58	97.5	-1.1
3	2483.50	70.8 PK	74.0	-3.2	1.00 H	58	71.8	-1.0
4	2483.50	53.9 AV	54.0	-0.1	1.00 H	58	54.9	-1.0
5	4924.00	37.8 PK	74.0	-36.2	1.17 H	0	34.3	3.5
6	4924.00	25.1 AV	54.0	-28.9	1.17 H	0	21.6	3.5
7	7386.00	48.0 PK	74.0	-26.0	1.22 H	128	38.1	9.9
8	7386.00	34.9 AV	54.0	-19.1	1.22 H	128	25.0	9.9
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	104.8 PK			2.02 V	255	105.9	-1.1
2	*2462.00	94.3 AV			2.02 V	255	95.4	-1.1
3	2483.50	68.4 PK	74.0	-5.6	2.02 V	255	69.4	-1.0
4	2483.50	51.5 AV	54.0	-2.5	2.02 V	255	52.5	-1.0
5	4924.00	39.2 PK	74.0	-34.8	1.04 V	67	35.7	3.5
6	4924.00	26.4 AV	54.0	-27.6	1.04 V	67	22.9	3.5
7	7386.00	49.2 PK	74.0	-24.8	1.04 V	206	39.3	9.9
8	7386.00	35.9 AV	54.0	-18.1	1.04 V	206	26.0	9.9

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
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	67.4 PK	74.0	-6.6	1.00 H	58	68.7	-1.3
2	2390.00	53.9 AV	54.0	-0.1	1.00 H	58	55.2	-1.3
3	*2422.00	102.0 PK			1.00 H	58	103.3	-1.3
4	*2422.00	91.2 AV			1.00 H	58	92.5	-1.3
5	4844.00	37.2 PK	74.0	-36.8	1.19 H	2	33.9	3.3
6	4844.00	24.7 AV	54.0	-29.3	1.19 H	2	21.4	3.3
7	7266.00	47.7 PK	74.0	-26.3	1.23 H	124	37.9	9.8
8	7266.00	34.4 AV	54.0	-19.6	1.23 H	124	24.6	9.8
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	2390.00	65.1 PK	74.0	-8.9	1.97 V	270	66.4	-1.3
2	2390.00	51.5 AV	54.0	-2.5	1.97 V	270	52.8	-1.3
3	*2422.00	100.5 PK			1.97 V	270	101.8	-1.3
4	*2422.00	89.1 AV			1.97 V	270	90.4	-1.3
5	4844.00	39.0 PK	74.0	-35.0	1.00 V	56	35.7	3.3
6	4844.00	26.4 AV	54.0	-27.6	1.00 V	56	23.1	3.3
7	7266.00	49.4 PK	74.0	-24.6	1.00 V	219	39.6	9.8
8	7266.00	36.3 AV	54.0	-17.7	1.00 V	219	26.5	9.8

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	66.9 PK	74.0	-7.1	1.00 H	58	68.2	-1.3
2	2390.00	53.8 AV	54.0	-0.2	1.00 H	58	55.1	-1.3
3	*2437.00	104.3 PK			1.00 H	58	105.5	-1.2
4	*2437.00	94.1 AV			1.00 H	58	95.3	-1.2
5	2483.50	69.6 PK	74.0	-4.4	1.00 H	58	70.6	-1.0
6	2483.50	52.7 AV	54.0	-1.3	1.00 H	58	53.7	-1.0
7	4874.00	37.3 PK	74.0	-36.7	1.14 H	12	34.0	3.3
8	4874.00	24.7 AV	54.0	-29.3	1.14 H	12	21.4	3.3
9	7311.00	48.2 PK	74.0	-25.8	1.25 H	133	38.4	9.8
10	7311.00	35.0 AV	54.0	-19.0	1.25 H	133	25.2	9.8

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	2390.00	64.3 PK	74.0	-9.7	1.91 V	285	65.6	-1.3
2	2390.00	51.3 AV	54.0	-2.7	1.91 V	285	52.6	-1.3
3	*2437.00	102.9 PK			1.91 V	285	104.1	-1.2
4	*2437.00	92.0 AV			1.91 V	285	93.2	-1.2
5	2483.50	67.1 PK	74.0	-6.9	1.91 V	285	68.1	-1.0
6	2483.50	50.1 AV	54.0	-3.9	1.91 V	285	51.1	-1.0
7	4874.00	38.9 PK	74.0	-35.1	1.05 V	68	35.6	3.3
8	4874.00	26.2 AV	54.0	-27.8	1.05 V	68	22.9	3.3
9	7311.00	49.5 PK	74.0	-24.5	1.09 V	202	39.7	9.8
10	7311.00	36.3 AV	54.0	-17.7	1.09 V	202	26.5	9.8

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	102.5 PK			1.00 H	58	103.6	-1.1
2	*2452.00	93.0 AV			1.00 H	58	94.1	-1.1
3	2483.50	70.6 PK	74.0	-3.4	1.00 H	58	71.6	-1.0
4	2483.50	53.6 AV	54.0	-0.4	1.00 H	58	54.6	-1.0
5	4904.00	37.5 PK	74.0	-36.5	1.18 H	8	34.0	3.5
6	4904.00	24.6 AV	54.0	-29.4	1.18 H	8	21.1	3.5
7	7356.00	48.2 PK	74.0	-25.8	1.27 H	127	38.3	9.9
8	7356.00	35.4 AV	54.0	-18.6	1.27 H	127	25.5	9.9
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	101.7 PK			2.01 V	282	102.8	-1.1
2	*2452.00	90.9 AV			2.01 V	282	92.0	-1.1
3	2483.50	68.2 PK	74.0	-5.8	2.01 V	282	69.2	-1.0
4	2483.50	51.1 AV	54.0	-2.9	2.01 V	282	52.1	-1.0
5	4904.00	39.1 PK	74.0	-34.9	1.05 V	81	35.6	3.5
6	4904.00	26.3 AV	54.0	-27.7	1.05 V	81	22.8	3.5
7	7356.00	49.4 PK	74.0	-24.6	1.03 V	220	39.5	9.9
8	7356.00	36.0 AV	54.0	-18.0	1.03 V	220	26.1	9.9

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
5. " * ": Fundamental frequency.

Below 1GHz Data:

802.11g

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

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	190.92	33.1 QP	43.5	-10.4	1.50 H	308	44.0	-10.9
2	241.14	39.6 QP	46.0	-6.4	1.00 H	203	49.5	-9.9
3	400.01	32.8 QP	46.0	-13.2	1.00 H	43	38.0	-5.2
4	450.01	30.2 QP	46.0	-15.8	1.00 H	47	33.8	-3.6
5	750.03	33.5 QP	46.0	-12.5	2.00 H	122	31.3	2.2
6	850.04	31.2 QP	46.0	-14.8	1.00 H	171	28.0	3.2
7	960.01	38.3 QP	54.0	-15.7	1.50 H	139	33.6	4.7
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	242.09	28.2 QP	46.0	-17.8	1.00 V	284	38.0	-9.8
2	350.03	35.5 QP	46.0	-10.5	2.50 V	231	42.0	-6.5
3	450.03	27.5 QP	46.0	-18.5	1.00 V	179	31.1	-3.6
4	550.04	28.6 QP	46.0	-17.4	1.00 V	224	30.6	-2.0
5	897.83	33.3 QP	46.0	-12.7	1.50 V	133	29.5	3.8
6	960.01	37.7 QP	54.0	-16.3	1.50 V	168	33.0	4.7

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

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.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 24, 2016	Oct. 23, 2017
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 26, 2016	Oct. 25, 2017
Line-Impedance Stabilization Network (for Peripheral) R&S	ENV216	100072	June 03, 2017	June 02, 2018
50 ohms Terminator	N/A	EMC-02	Sep. 29, 2016	Sep. 28, 2017
RF Cable	5D-FB	COCCAB-001	Sep. 30, 2016	Sep. 29, 2017
10 dB PAD Mini-Circuits	HAT-10+	CONATT-004	June 18, 2017	June 17, 2018
Software BVADT	BVADT_Cond_ V7.3.7.4	NA	NA	NA

Note:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. 1.
3. Tested Date: Sep. 27, 2017

4.2.3 Test Procedures

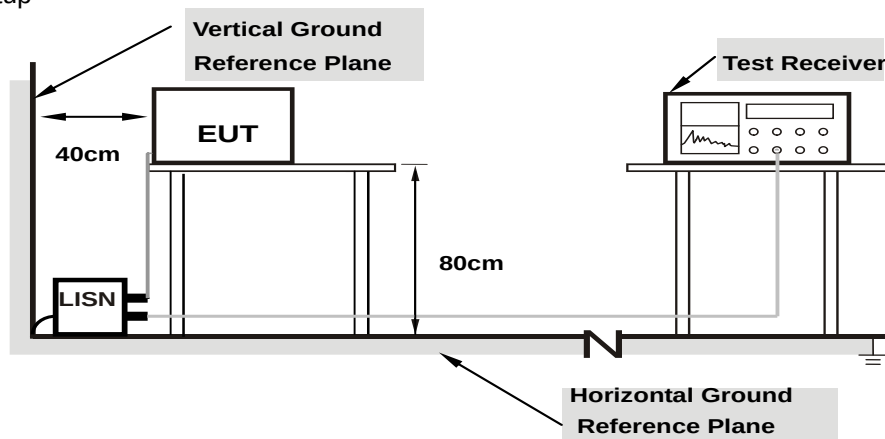
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance 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.

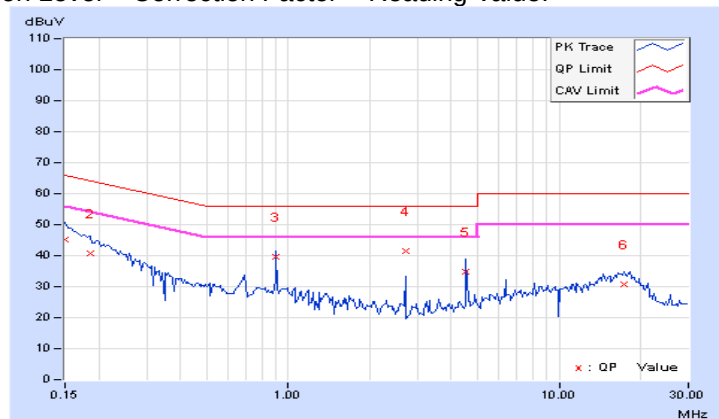
4.2.7 Test Results (Mode 1)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
	[MHz]	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.08	35.15	17.68	45.23	27.76	66.00	56.00	-20.77	-28.24
2	0.18516	10.07	30.68	14.17	40.75	24.24	64.25	54.25	-23.50	-30.01
3	0.90391	10.15	29.31	24.71	39.46	34.86	56.00	46.00	-16.54	-11.14
4	2.71094	10.24	31.25	27.38	41.49	37.62	56.00	46.00	-14.51	-8.38
5	4.51953	10.41	24.43	19.61	34.84	30.02	56.00	46.00	-21.16	-15.98
6	17.31641	11.37	19.49	10.77	30.86	22.14	60.00	50.00	-29.14	-27.86

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)
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No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.07	32.53	19.90	42.60	29.97	66.00	56.00	-23.40	-26.03
2	0.16953	10.06	34.62	16.07	44.68	26.13	64.98	54.98	-20.30	-28.85
3	0.23984	10.06	30.99	16.75	41.05	26.81	62.10	52.10	-21.05	-25.29
4	0.90391	10.12	26.69	20.98	36.81	31.10	56.00	46.00	-19.19	-14.90
5	2.71094	10.23	27.73	22.60	37.96	32.83	56.00	46.00	-18.04	-13.17
6	16.88672	11.11	22.24	11.59	33.35	22.70	60.00	50.00	-26.65	-27.30

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.



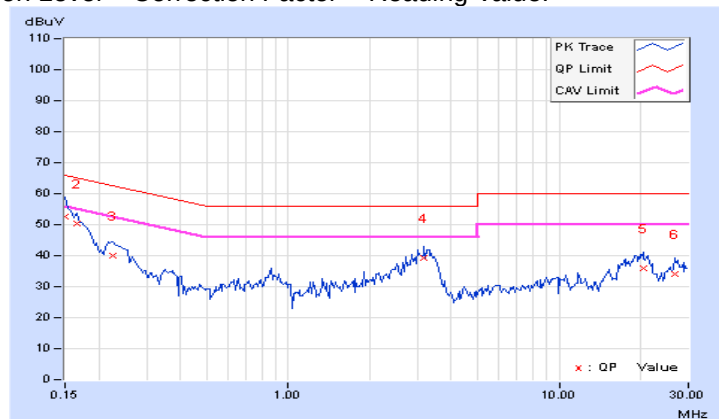
4.2.8 Test Results (Mode 2)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.07	42.53	23.30	52.60	33.37	66.00	56.00	-13.40	-22.63
2	0.16562	10.07	40.13	23.21	50.20	33.28	65.18	55.18	-14.98	-21.90
3	0.22422	10.07	29.99	12.95	40.06	23.02	62.66	52.66	-22.60	-29.64
4	3.17578	10.23	29.10	23.45	39.33	33.68	56.00	46.00	-16.67	-12.32
5	20.37500	11.29	24.65	19.10	35.94	30.39	60.00	50.00	-24.06	-19.61
6	26.83984	11.35	22.54	16.80	33.89	28.15	60.00	50.00	-26.11	-21.85

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.

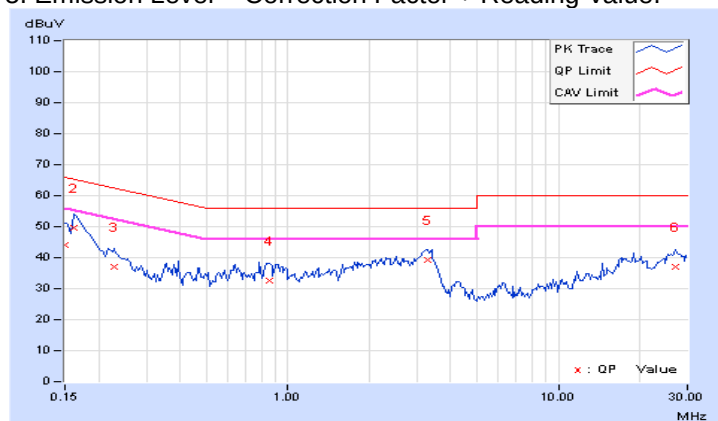


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
	[MHz]	Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.06	33.96	19.94	44.02	30.00	66.00	56.00	-21.98	-26.00
2	0.16172	10.05	39.42	19.65	49.47	29.70	65.38	55.38	-15.91	-25.68
3	0.22812	10.04	27.17	11.08	37.21	21.12	62.52	52.52	-25.31	-31.40
4	0.85313	10.11	22.58	13.76	32.69	23.87	56.00	46.00	-23.31	-22.13
5	3.26953	10.21	29.04	23.01	39.25	33.22	56.00	46.00	-16.75	-12.78
6	27.00000	10.97	26.17	18.15	37.14	29.12	60.00	50.00	-22.86	-20.88

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.

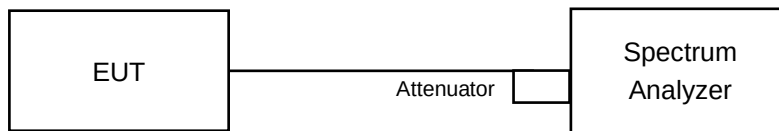


4.3 6dB Bandwidth Measurement

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 = Peak.
- 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

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	9.10	0.5	PASS
6	2437	10.10	0.5	PASS
11	2462	9.62	0.5	PASS

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.42	0.5	PASS
6	2437	16.39	0.5	PASS
11	2462	16.37	0.5	PASS

802.11n (HT20)

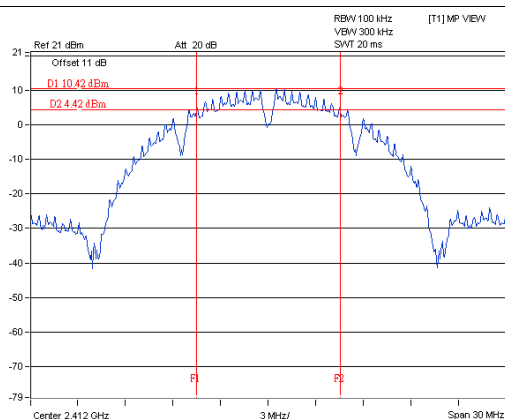
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	17.62	0.5	Pass
6	2437	17.58	0.5	Pass
11	2462	17.64	0.5	Pass

802.11n (HT40)

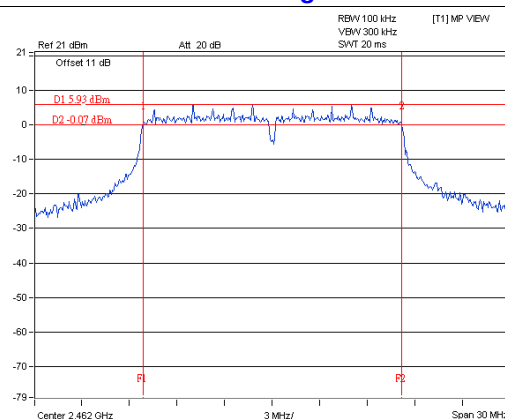
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
3	2422	35.51	0.5	Pass
6	2437	35.49	0.5	Pass
9	2452	35.66	0.5	Pass

Spectrum Plot of Worst Value

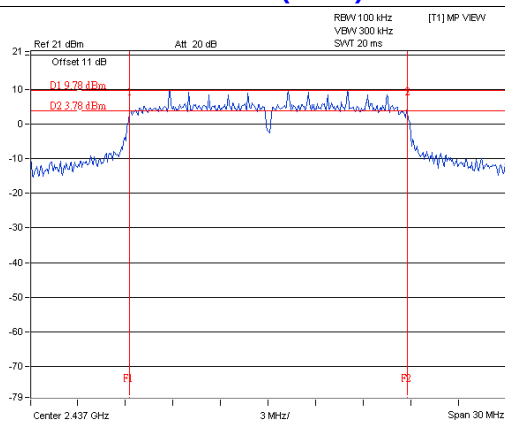
802.11b : CH1



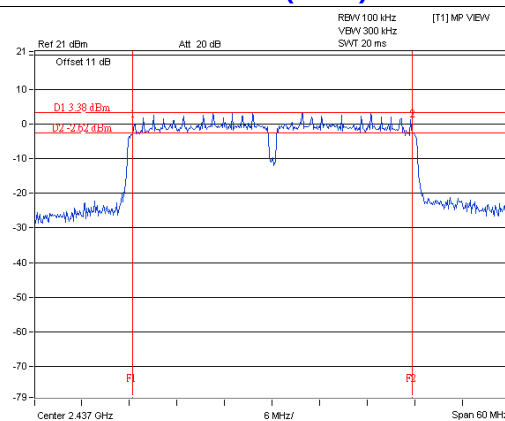
802.11g : CH11



802.11n (HT20) : CH6



802.11n (HT40) : CH6

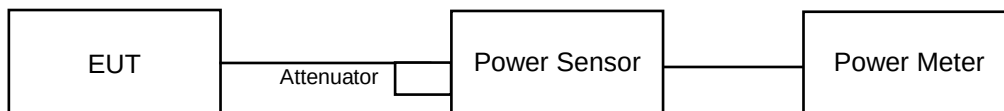


4.4 Conducted Output Power Measurement

4.4.1 Limits of Conducted Output Power Measurement

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

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

A peak / average power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak / 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

FOR PEAK POWER

802.11b

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass/Fail
1	2412	164.437	22.16	30	Pass
6	2437	277.332	24.43	30	Pass
11	2462	162.181	22.10	30	Pass

802.11g

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass/Fail
1	2412	288.403	24.60	30	Pass
6	2437	328.852	25.17	30	Pass
11	2462	259.418	24.14	30	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass/Fail
1	2412	281.19	24.49	30	Pass
6	2437	319.89	25.05	30	Pass
11	2462	257.632	24.11	30	Pass

802.11n (HT40)

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass/Fail
3	2422	179.887	22.55	30	Pass
6	2437	279.254	24.46	30	Pass
9	2452	267.917	24.28	30	Pass

FOR AVERAGE POWER

802.11b

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	105.682	20.24
6	2437	197.697	22.96
11	2462	104.954	20.21

802.11g

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	66.834	18.25
6	2437	181.134	22.58
11	2462	60.814	17.84

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	63.826	18.05
6	2437	177.419	22.49
11	2462	58.614	17.68

802.11n (HT40)

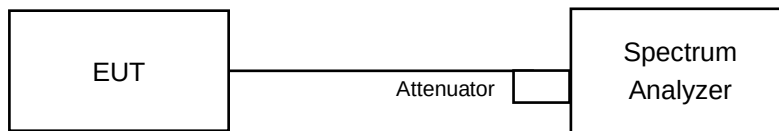
Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
3	2422	30.69	14.87
6	2437	60.395	17.81
9	2452	41.4	16.17

4.5 Power Spectral Density Measurement

4.5.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8dBm in any 3 kHz.

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

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

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

802.11b

Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-4.93	8	Pass
6	2437	-1.92	8	Pass
11	2462	-4.50	8	Pass

802.11g

Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-8.38	8	Pass
6	2437	-4.87	8	Pass
11	2462	-8.96	8	Pass

802.11n (HT20)

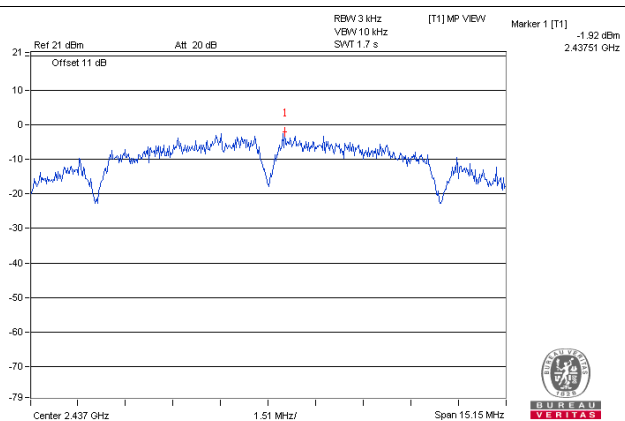
Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-8.55	8	Pass
6	2437	-6.82	8	Pass
11	2462	-8.71	8	Pass

802.11n (HT40)

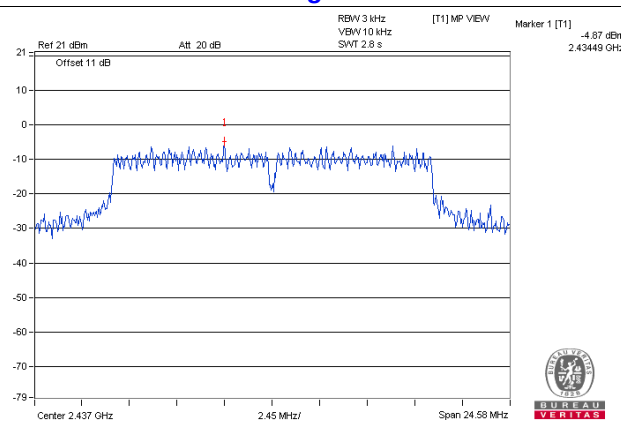
Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
3	2422	-14.54	8	Pass
6	2437	-11.01	8	Pass
9	2452	-13.45	8	Pass

Spectrum Plot of Worst Value

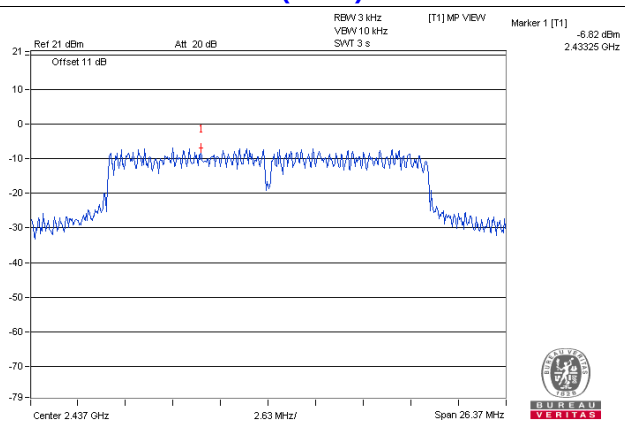
802.11b : CH6



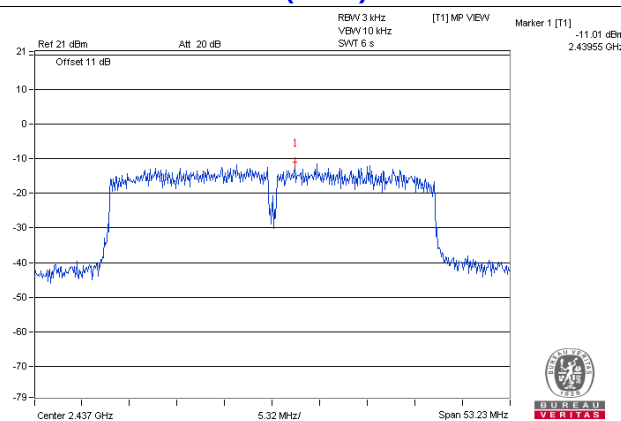
802.11g : CH6



802.11n (HT20) : CH6



802.11n (HT40) : CH6

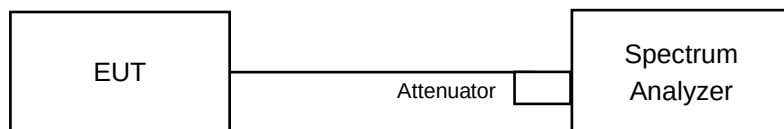


4.6 Conducted Out of Band Emission Measurement

4.6.1 Limits of Conducted Out of Band Emission Measurement

Below 20dB 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

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

MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. 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

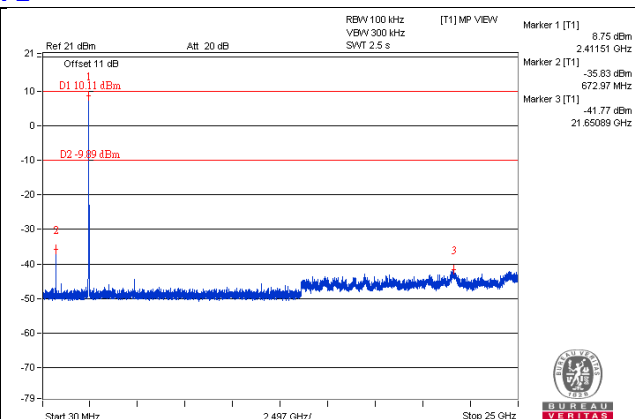
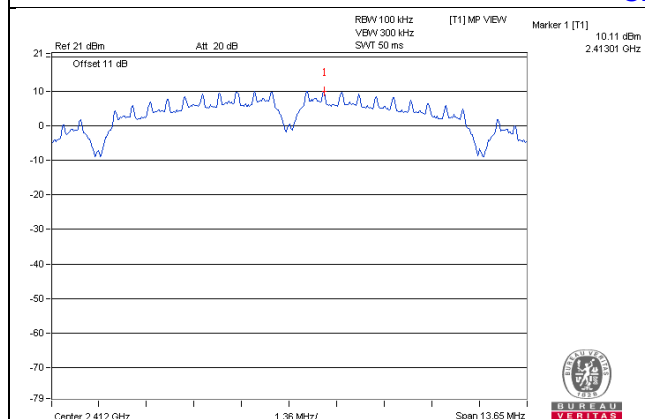
Same as Item 4.3.6

4.6.7 Test Results

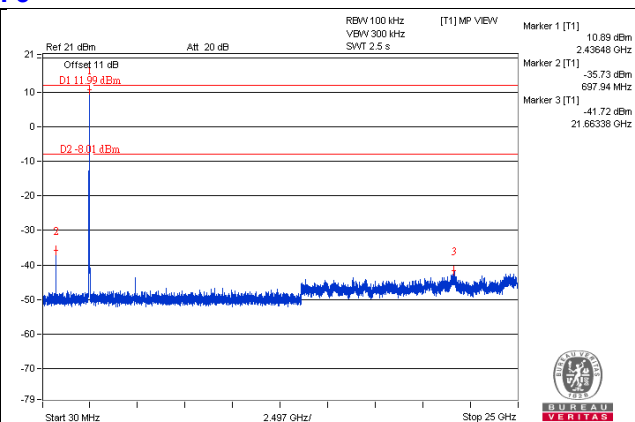
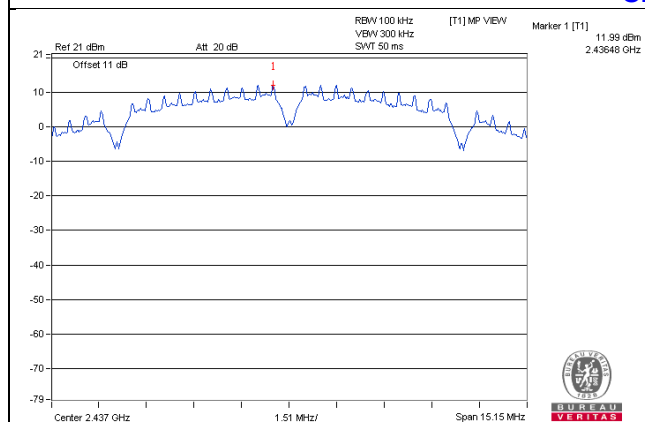
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

802.11b

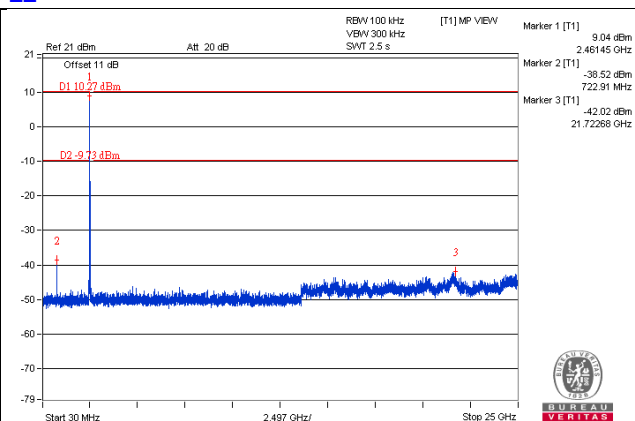
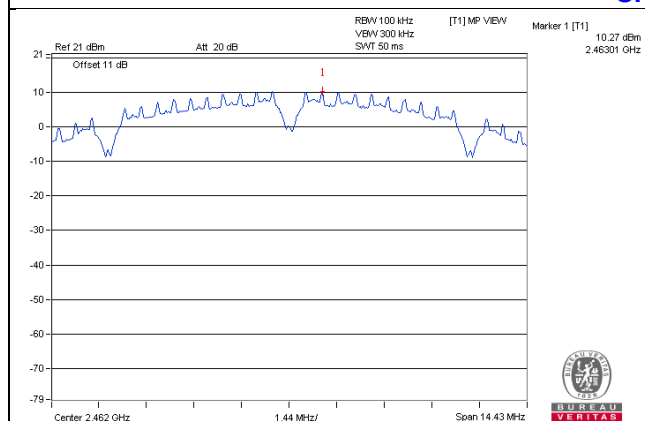
CH 1



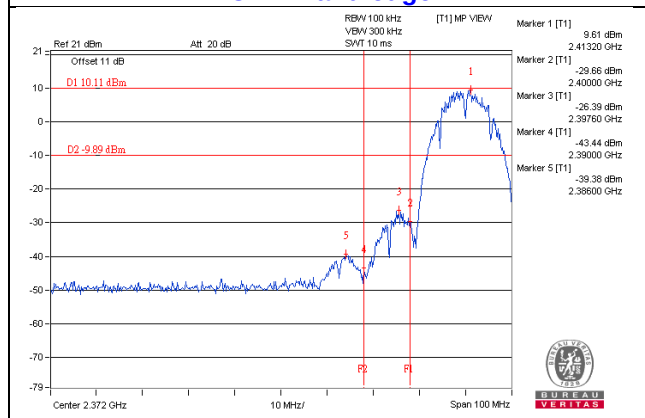
CH 6



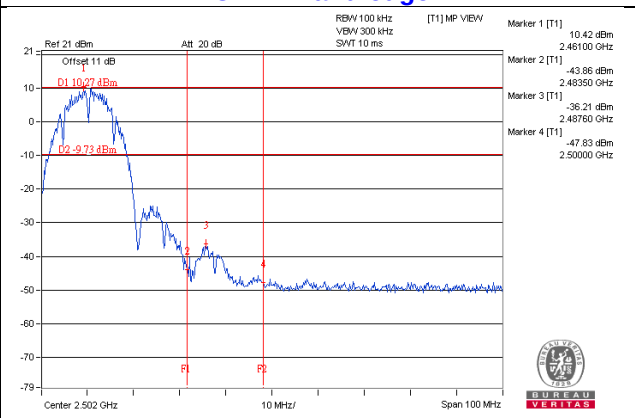
CH 11



CH 1 Band edge

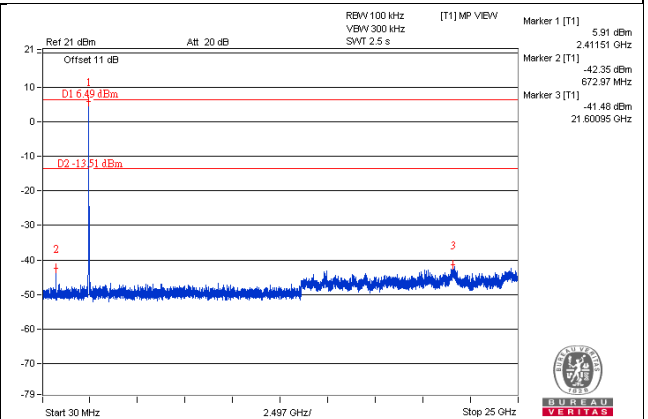
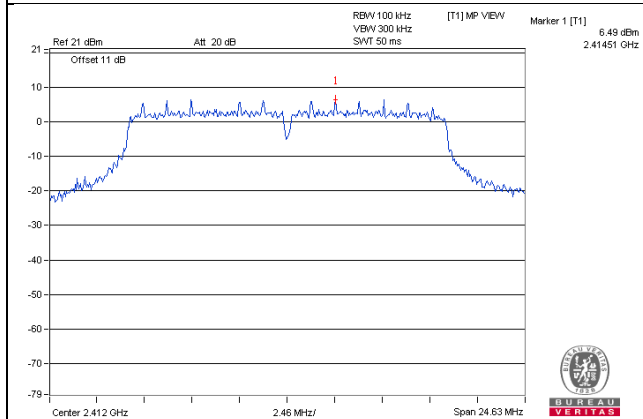


CH 11 Band edge

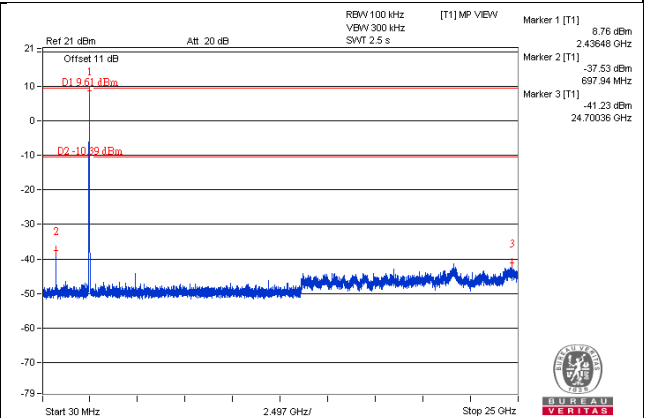
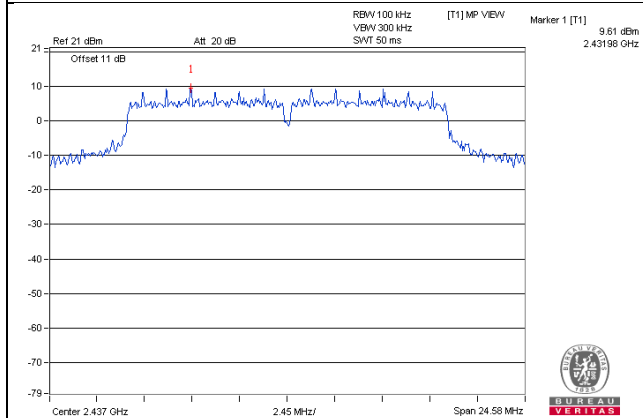


802.11g

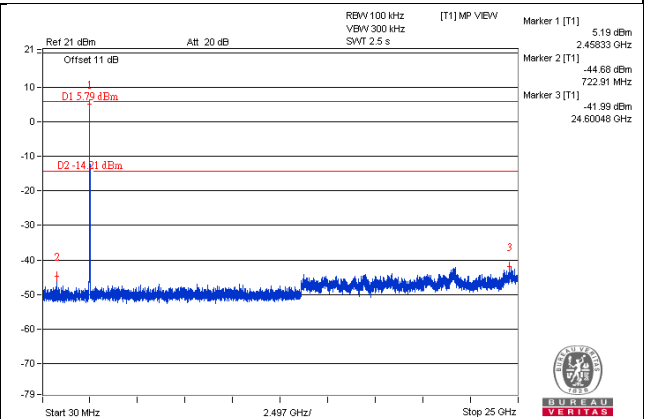
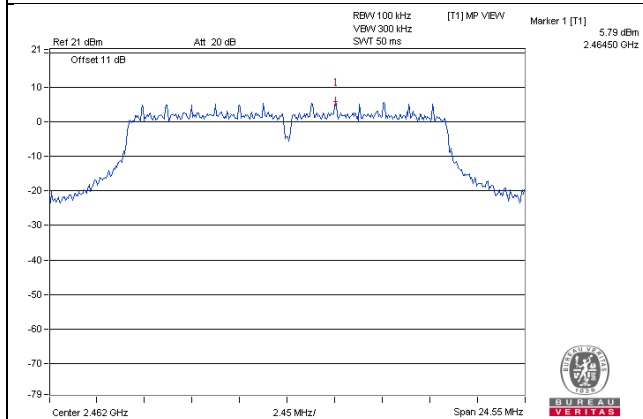
CH 1



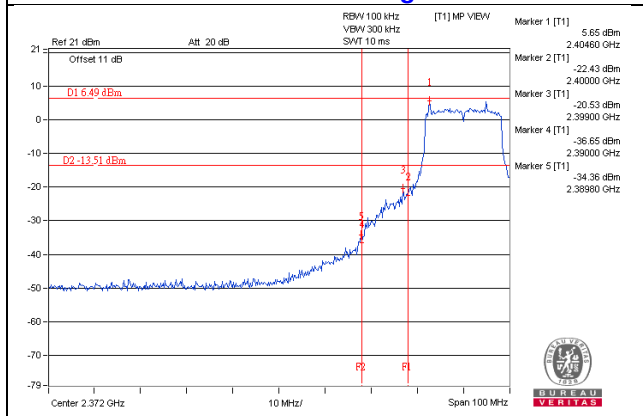
CH 6



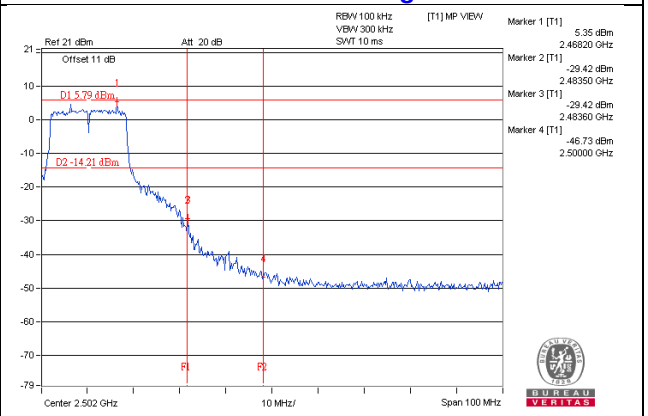
CH 11



CH 1 Band edge

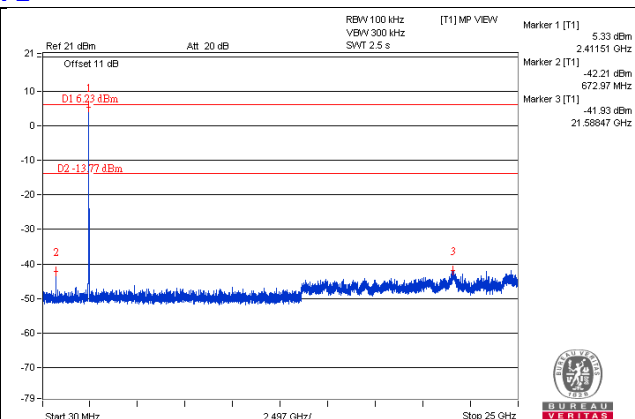
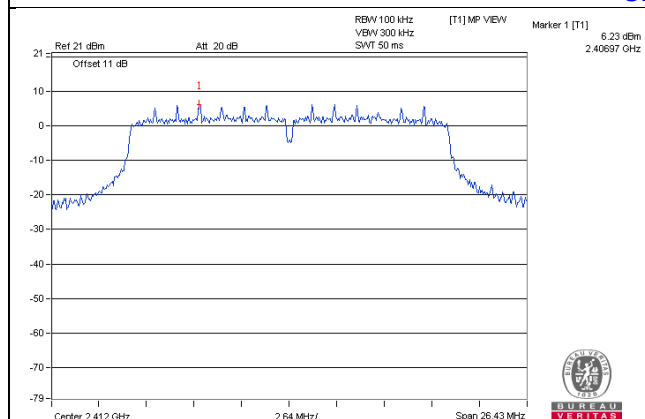


CH 11 Band edge

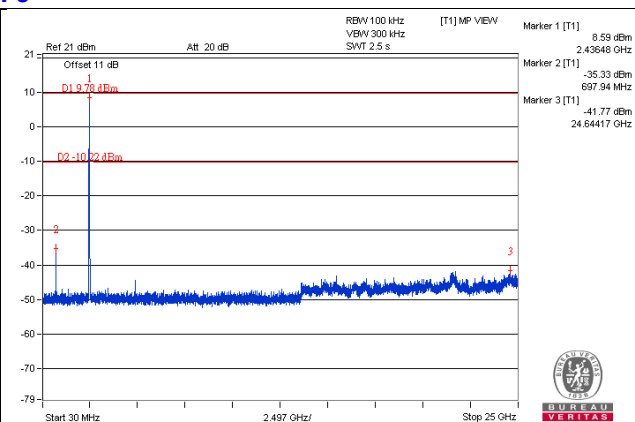
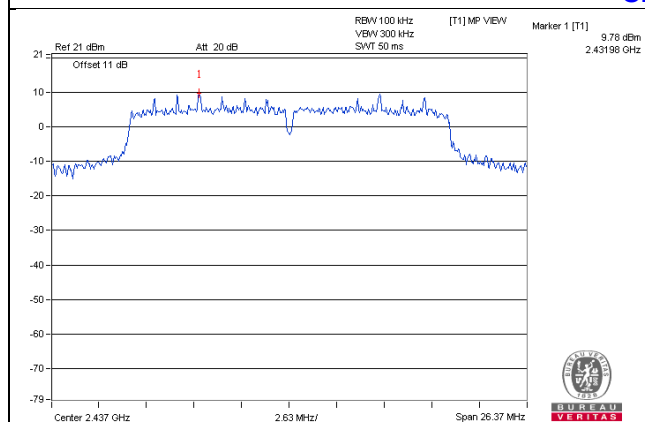


802.11n (HT20)

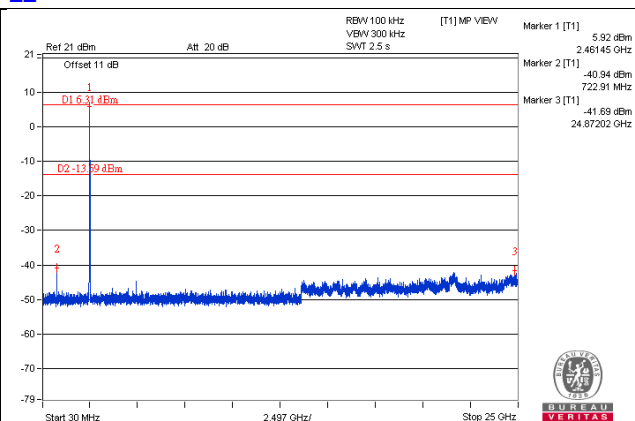
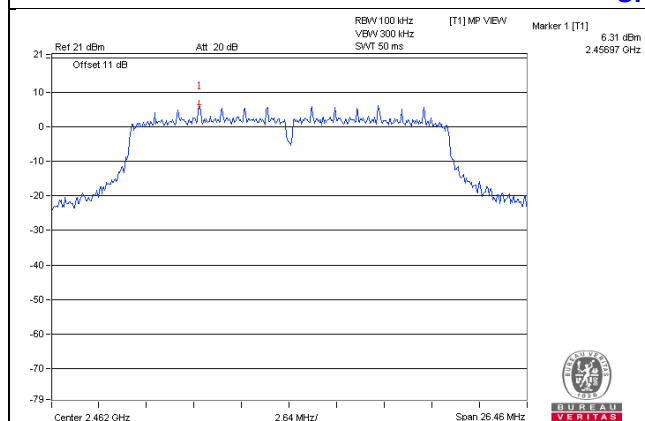
CH 1



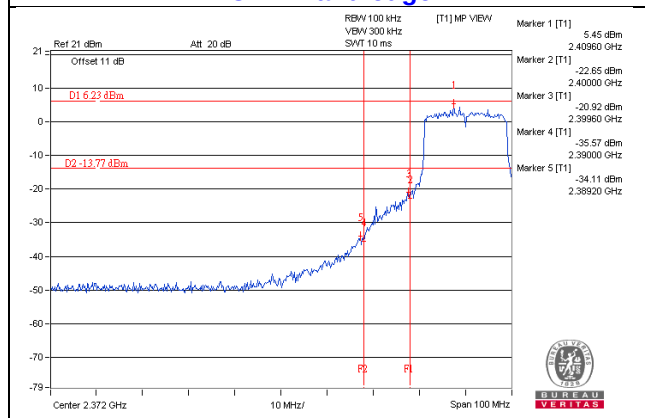
CH 6



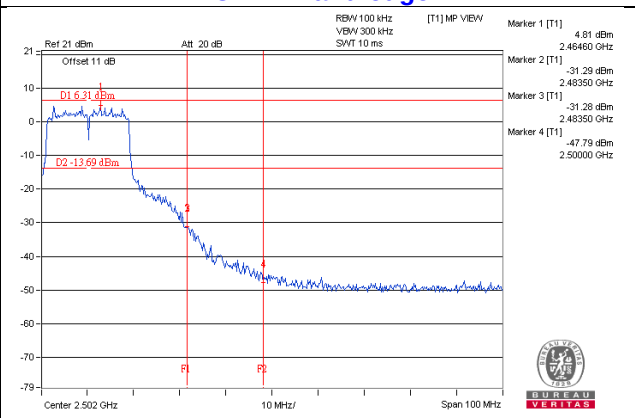
CH 11



CH 1 Band edge

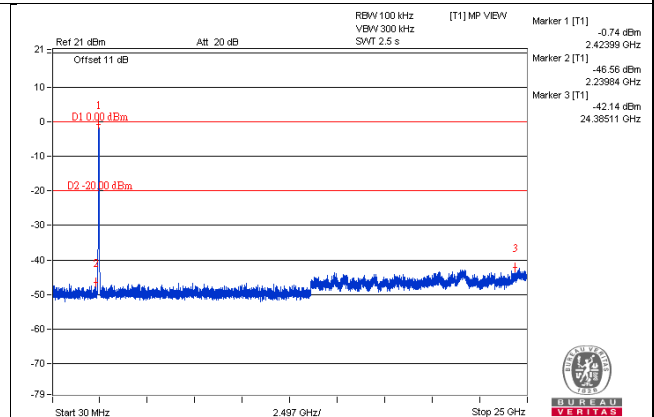
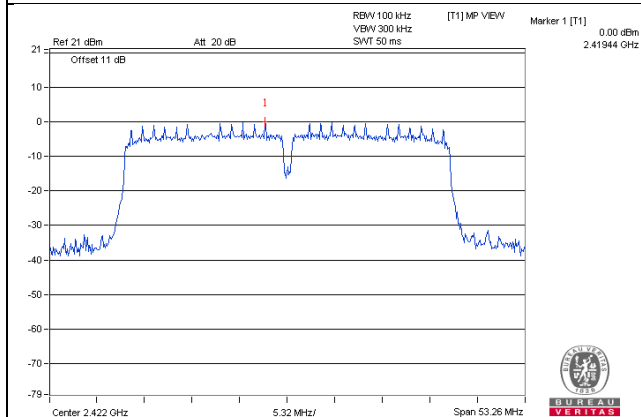


CH 11 Band edge

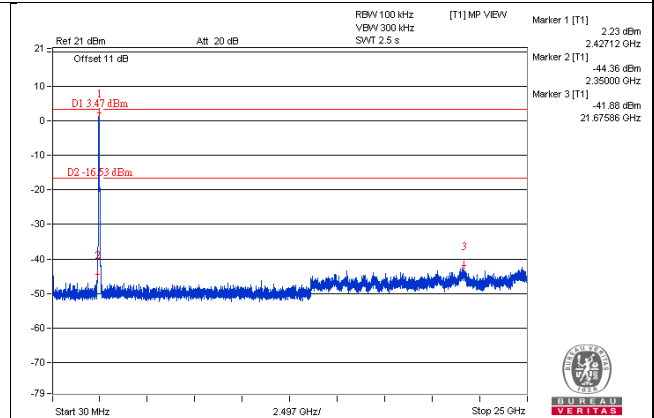
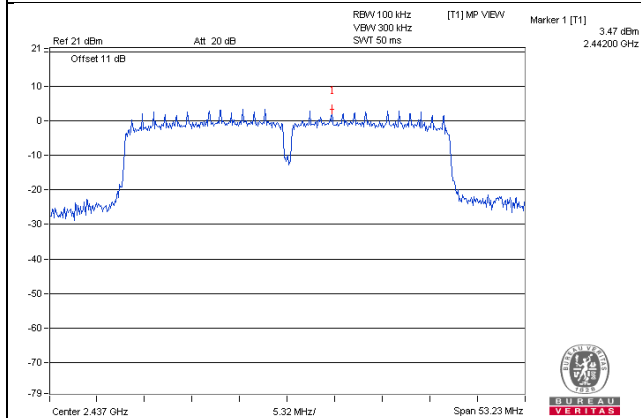


802.11n (HT40)

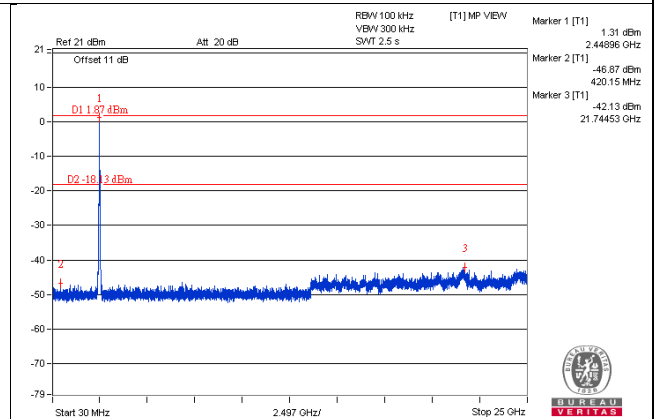
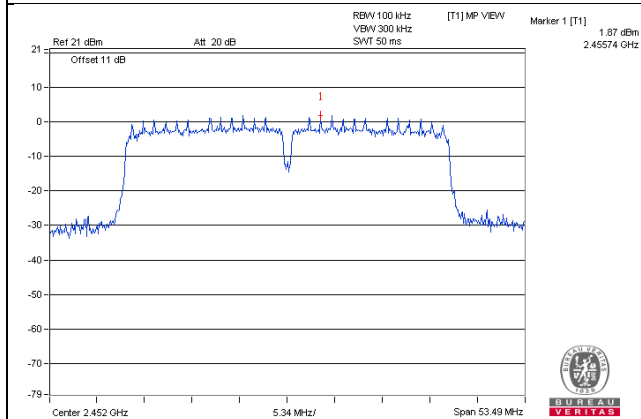
CH 3



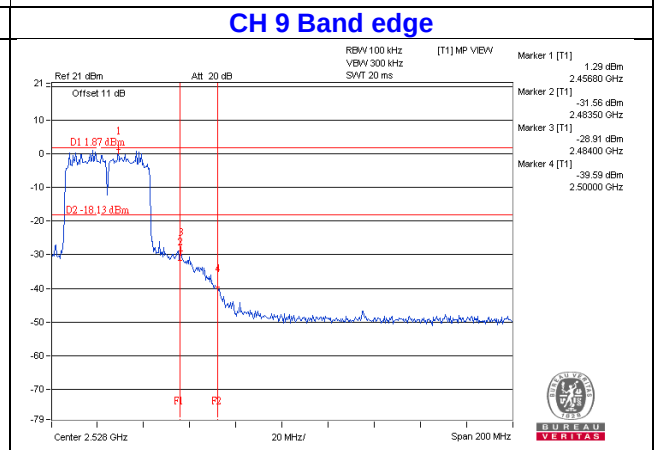
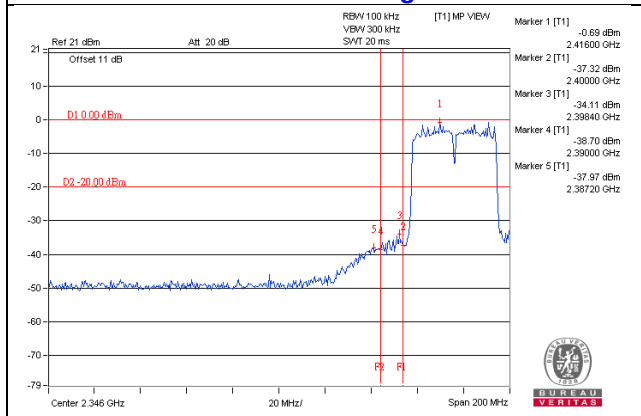
CH 6



CH 9



CH 3 Band edge



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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