



FCC&IC Test Report

Report No.: AGC01788140601FE08

FCC ID : 2ACBST2
IC ID : 11974A-T2
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Tablet PC
BRAND NAME : LANGMEI, KO
MODEL NAME : T2, 7CZ
CLIENT : Shenzhen LangMei Technology Co., Ltd.
DATE OF ISSUE : July 24, 2014
STANDARD(S) : FCC Part 15 Rules
: RSS-GEN: Issue 3
: RSS-210: Issue 8
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	July 24, 2014	Valid	Original Report

TABLE OF CONTENTS

1. VERIFICATION OF COMPLIANCE	5
2. GENERAL INFORMATION	6
2.1 PRODUCT DESCRIPTION.....	6
2.2 RELATED SUBMITTAL(S)/GRANT(S).....	6
2.3 TEST METHODOLOGY	6
2.4 TEST FACILITY	6
2.5 SPECIAL ACCESSORIES	6
2.6 EQUIPMENT MODIFICATIONS	6
3. SYSTEM TEST CONFIGURATION	7
3.1 CONFIGURATION OF TESTED SYSTEM.....	7
3.2 EQUIPMENT USED IN TESTED SYSTEM	7
4. SUMMARY OF TEST RESULTS	8
5. DESCRIPTION OF TEST MODES	8
6. ANTENNA REQUIREMENT.....	9
6.1. STANDARD APPLICABLE	9
6.2. TEST RESULT	9
7. RADIATED EMISSION	10
7.1 MEASUREMENT PROCEDURE	10
7.2 TEST SETUP.....	11
7.3 LIMITS AND MEASUREMENT RESULT.....	12
7.4 TEST RESULT	12
8. BAND EDGE EMISSION.....	25
8.1. MEASUREMENT PROCEDURE	25
8.2. TEST SET-UP	25
8.3. TEST RESULT	26
8.4. CONDUCTED TEST RESULT	30
9. 6DB BANDWIDTH	31
9.1. TEST EQUIPMENT LIST AND DETAILS	31
9.2. TEST PROCEDURE	31
9.3. SUMMARY OF TEST RESULTS/PLOTS	31
10. CONDUCTED OUTPUT POWER	33
10.1. MEASUREMENT PROCEDURE	33
10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	33
10.3. LIMITS AND MEASUREMENT RESULT.....	33
11. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY.....	36
11.1 MEASUREMENT PROCEDURE	36

11.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) 36

11.3 MEASUREMENT EQUIPMENT USED 36

11.4 LIMITS AND MEASUREMENT RESULT..... 36

12. FCC LINE CONDUCTED EMISSION TEST 39

12.1 LIMITS..... 39

12.2 TEST SETUP..... 39

12.3 PRELIMINARY PROCEDURE 40

12.4 FINAL TEST PROCEDURE 40

12.5 TEST RESULT OF POWER LINE 41

APPENDIX A: PHOTOGRAPHS OF TEST SETUP 43

APPENDIX B: PHOTOGRAPHS OF EUT 44

1. VERIFICATION OF COMPLIANCE

Applicant	Shenzhen LangMei Technology Co., Ltd.
Address	Block B2, 2nd Industrial Park, Fenghuang 3rd Industrial Zone, Fuyong Town, Bao'an District, Shenzhen
Manufacturer	Shenzhen LangMei Technology Co., Ltd.
Address	Block B2, 2nd Industrial Park, Fenghuang 3rd Industrial Zone, Fuyong Town, Bao'an District, Shenzhen
Product Designation	Tablet PC
Brand Name	LANGMEI, KO
Test Model	T2
Series Model	7CZ
Difference description	All the same except for the model name.
Date of test	July 16, 2014 to July 24, 2014
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BLE/RF (2013-03-01)

WE HEREBY CERTIFY THAT:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 and RSS-210 issue 8 Rules requirement.

Prepared By

Matt Zhang

Matt Zhang

July 24, 2014

Checked By

Kidd Yang

Kidd Yang

July 24, 2014

Authorized By

Solger Zhang

Solger Zhang

July 24, 2014

2.GENERAL INFORMATION

2.1PRODUCT DESCRIPTION

The EUT is designed as a “**Tablet PC**”. It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
Bluetooth Version	V4.0
Modulation	GFSK
Number of channels	40 Channel(37 Hopping Channel,3 advertising Channel)
Antenna Designation	Integrated Antenna
Antenna Gain	1.0dBi
Hardware Version	MC706
Software Version	Android.4.2.2
Power Supply	DC3.7V by Built-in Li-ion Battery

2.2 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: FFDD and IC ID: IIDD** filing to comply with Section 15.247of the FCC Part 15, Subpart C and RSS-GEN: Issue 3,RSS-210: Issue 8 Rules.

2.3TEST METHODOLOGY

All measurements contained in this report were conducted with KDB 558074 D01 DTS Meas Guidance v03r02,, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions. The EUT was tested in all three orthogonal planes and the worse case was showed.

2.4 TEST FACILITY

All measurement facilities used to collect the measurement data are located at
Attestation of Global Compliance (Shenzhen) Co, Ltd

2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China.

FCC register No.: 259865

IC register No.: 9803A-1

2.5 SPECIAL ACCESSORIES

Refer to section 5.2.

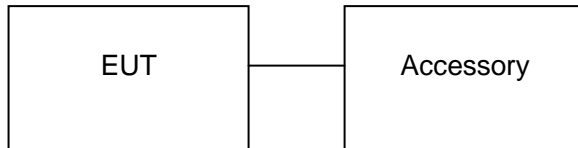
2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

3. SYSTEM TEST CONFIGURATION

3.1 CONFIGURATION OF TESTED SYSTEM

Configuration:



3.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Note
1	Tablet PC	T2	FCC ID:FFDD	EUT
2	Adapter	BSF-50200	DC5.0V / 2.5A	Accessory
3	Battery	337095	DC3.7V / 2400 mAh	Accessory
4	Earphone	T2	N/A	Accessory
5	USB Cable	T2	N/A	Accessory

ALL TEST EQUIPMENT LIST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Power Probe	R&S	NRP-Z23	100323	07/16/2014	07/15/2015
RF attenuator	N/A	RFA20db	68	N/A	N/A
Spectrum Analyzer	Agilent	E4440A	US41421290	07/16/2014	07/15/2015
Amplifier	EM	EM30180	0607030	02/27/2014	02/26/2015
Horn Antenna	EM	EM-AH-10180	67	04/19/2014	04/18/2015
Horn Antenna	A.H. Systems Inc.	SAS-574	--	07/16/2014	07/15/2015
EMI Test Receiver	Rohde & Schwarz	ESCI	100694	07/16/2014	07/15/2015
Biological Antenna	A.H. Systems Inc.	SAS-521-4	26	06/06/2014	06/05/2015
Loop Antenna	A.H.	SAS-526B	264	07/13/2014	07/12/2015
Radiation Cable 1	Sat	RE1	R003	06/04/2014	06/03/2015
Radiation Cable 2	Sat	RE2	R002	06/04/2014	06/03/2015
Conduction Cable	Sat	CE1	C001	06/04/2014	06/03/2015

4. SUMMARY OF TEST RESULTS

FCC RULES	IC RULES	DESCRIPTION OF TEST	RESULT
§ 15.203	RSS-210	Antenna Requirement	Compliant
§15.209 §15.247(d)	RSS-210 RSS-GEN	Radiated Emission	Compliant
§15.247(d)	RSS-210	Band Edges	Compliant
§15.247	RSS-210	6 dB Bandwidth	Compliant
§15.247(b)	RSS-210	Conducted Power	Compliant
§15.247(e)	RSS-210	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.207	RSS-210 RSS-GEN	Line Conduction Emission	Compliant

5. DESCRIPTION OF TEST MODES

The EUT has been operated in three modulations: GFSK independently.

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal Operating (BT)

Note:

1. All the test modes can be supply by Built-in Li-ion battery, only the result of the worst case was recorded in the report if no any records.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. Eut is operating at its maximum duty cycle>or equal 98%

6. ANTENNA REQUIREMENT

6.1. STANDARD APPLICABLE

According to FCC 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

6.2. TEST RESULT

This product has a permanent antenna, fulfill the requirement of this section.

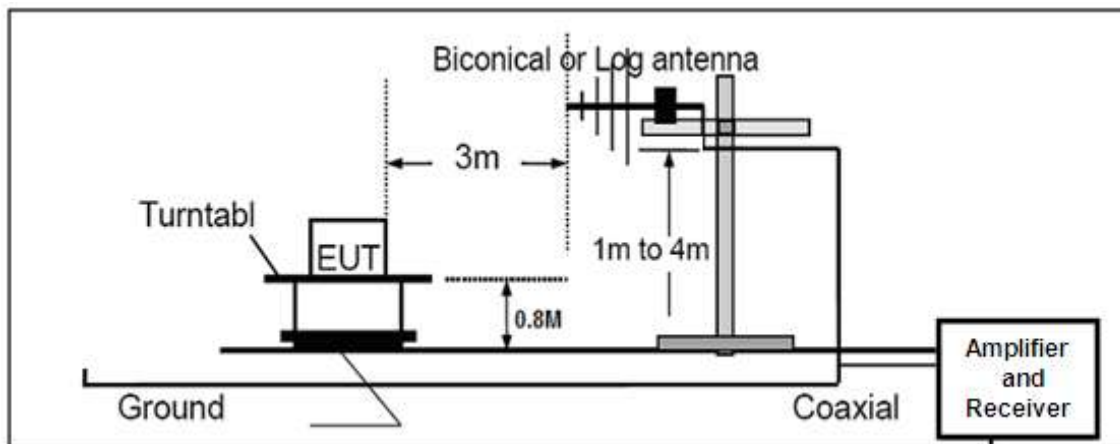
7. RADIATED EMISSION

7.1 MEASUREMENT PROCEDURE

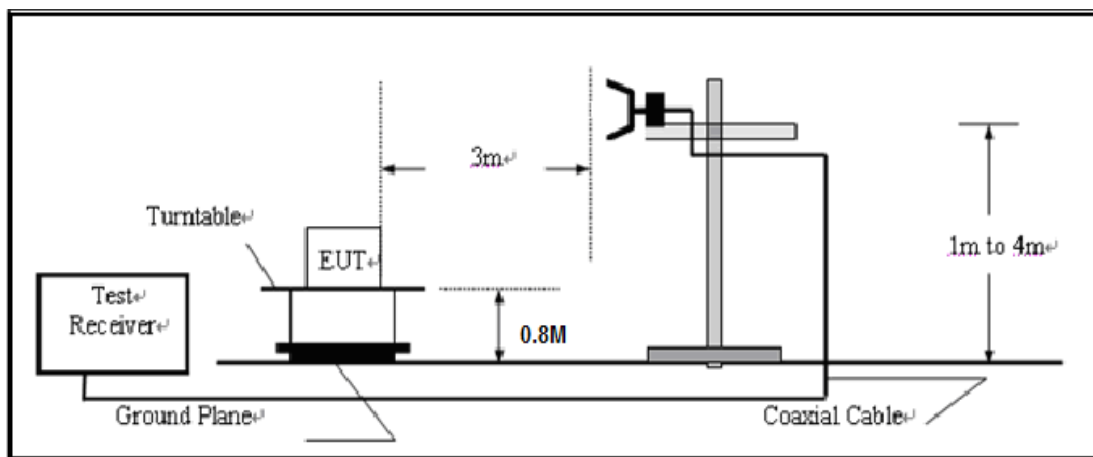
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

7.2 TEST SETUP

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



7.3 LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/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: All modes were tested For restricted band radiated emission,
the test records reported below are the worst result compared to other modes.

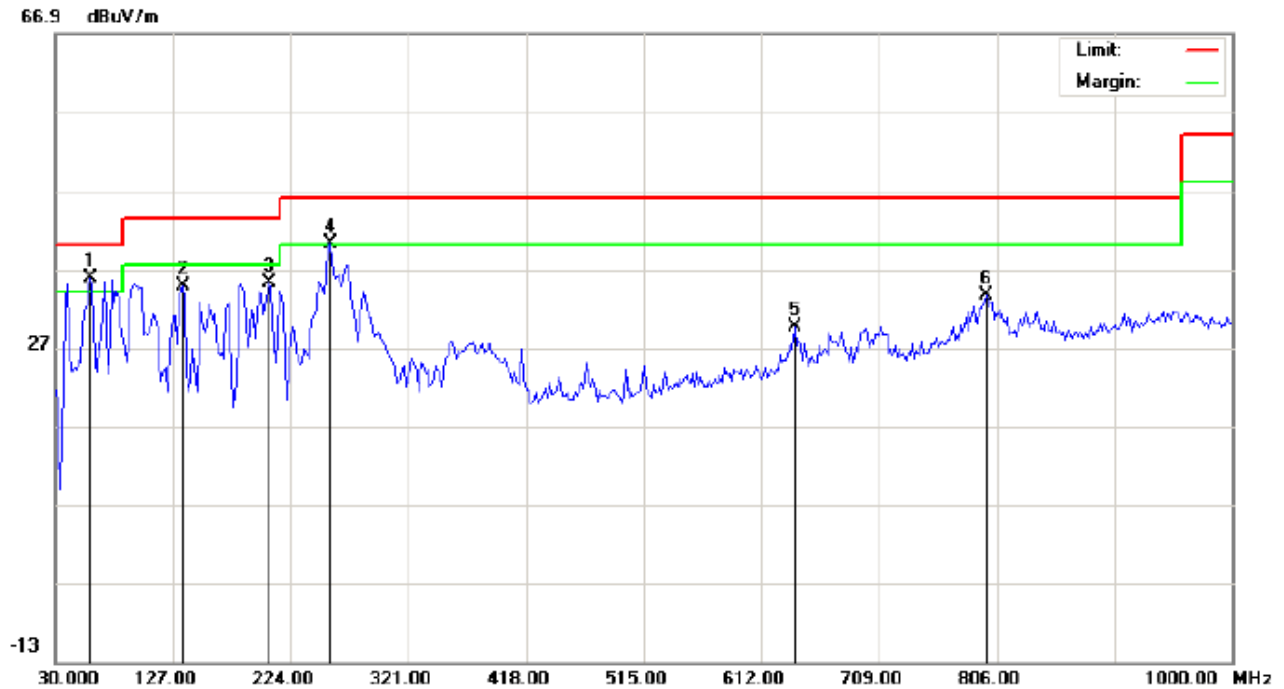
7.4 TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL-HORIZONTAL

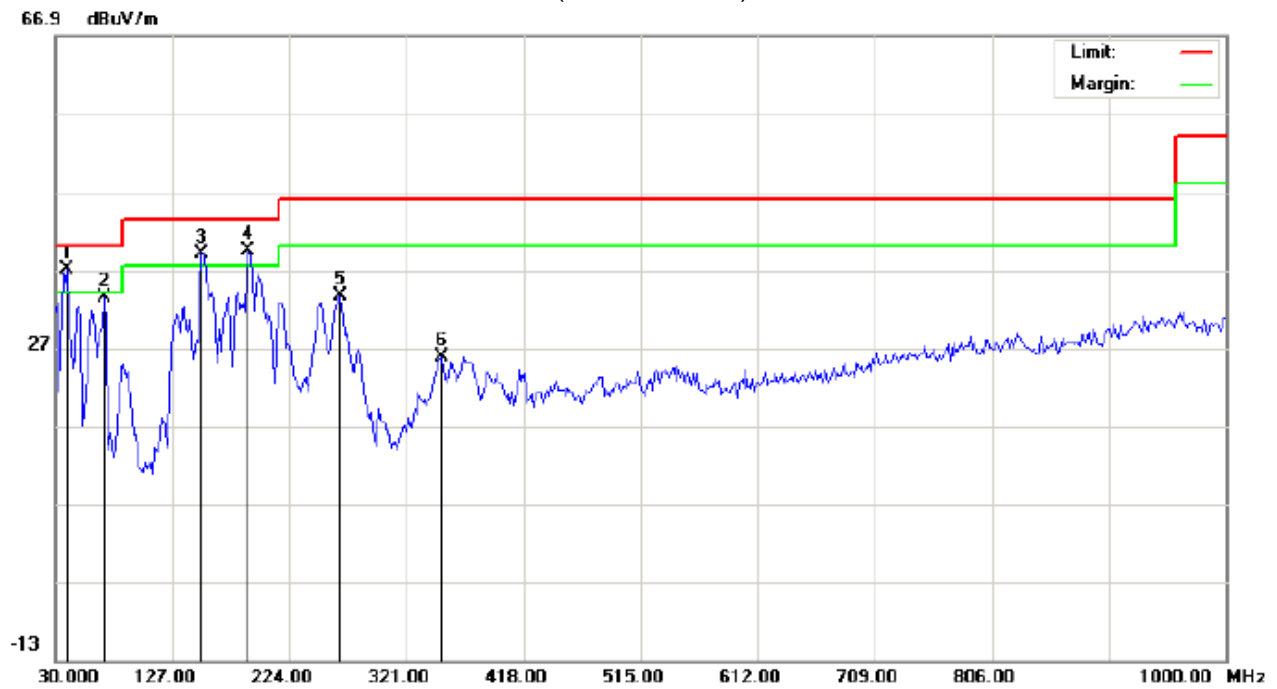


Site: site #1 Polarization: **Horizontal** Temperature: 26
Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 60 %
EUT: Tablet PC Distance:
M/N: T2
Mode: Low Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	59.1000	24.62	11.16	35.78	40.00	-4.22	peak			
2		135.0833	20.47	14.38	34.85	43.50	-8.65	peak			
3		206.2167	22.91	12.24	35.15	43.50	-8.35	peak			
4	!	256.3333	26.13	14.09	40.22	46.00	-5.78	peak			
5		639.4833	5.83	23.82	29.65	46.00	-16.35	peak			
6		797.9167	6.39	27.29	33.68	46.00	-12.32	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: Tablet PC
M/N: T2
Mode: Low Channel TX
Note:

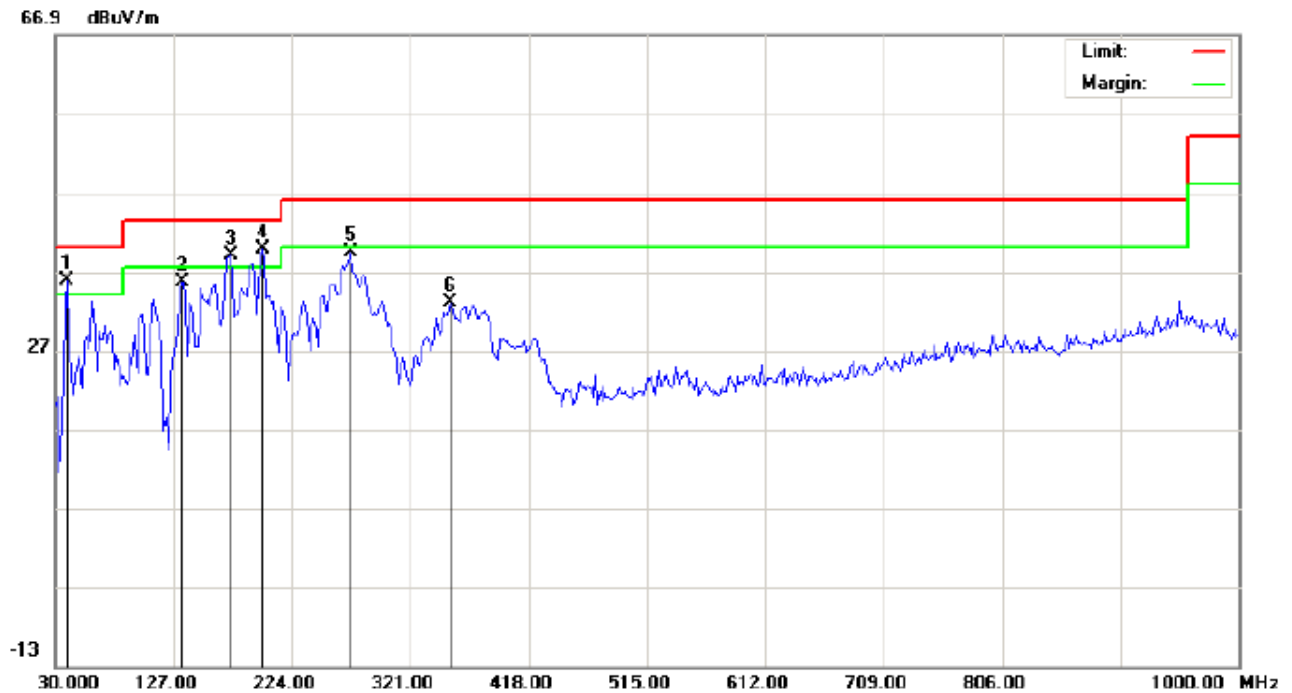
Polarization: **Vertical**
Power: AC 120V/60Hz
Distance:

Temperature: 26
Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	39.7000	28.47	8.51	36.98	40.00	-3.02	peak			
2		70.4167	29.27	4.16	33.43	40.00	-6.57	peak			
3	!	151.2500	23.71	15.27	38.98	43.50	-4.52	peak			
4	!	190.0500	27.80	11.52	39.32	43.50	-4.18	peak			
5		266.0333	19.29	14.38	33.67	46.00	-12.33	peak			
6		350.1000	7.15	18.74	25.89	46.00	-20.11	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL

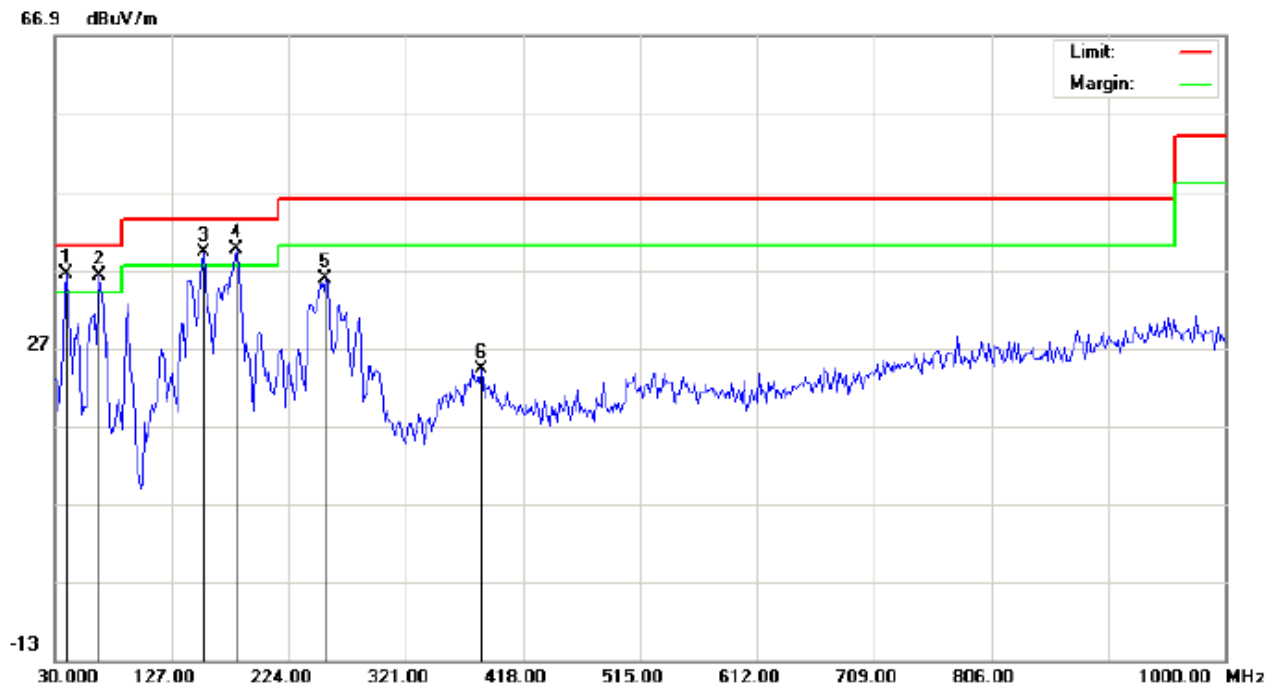


Site: site #1 Polarization: *Horizontal* Temperature: 26
Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 60 %
EUT: Tablet PC Distance:
M/N: T2
Mode: Middle Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	!	39.7000	24.27	11.51	35.78	40.00	-4.22	peak			
2		133.4667	21.41	14.11	35.52	43.50	-7.98	peak			
3	!	173.8833	26.72	12.37	39.09	43.50	-4.41	peak			
4	*	199.7500	27.84	11.99	39.83	43.50	-3.67	peak			
5		272.5000	24.75	14.58	39.33	46.00	-6.67	peak			
6		353.3333	14.18	18.76	32.94	46.00	-13.06	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: Tablet PC

M/N: T2

Mode: Middle Channel TX

Note:

Polarization: **Vertical**

Power: AC 120V/60Hz

Distance:

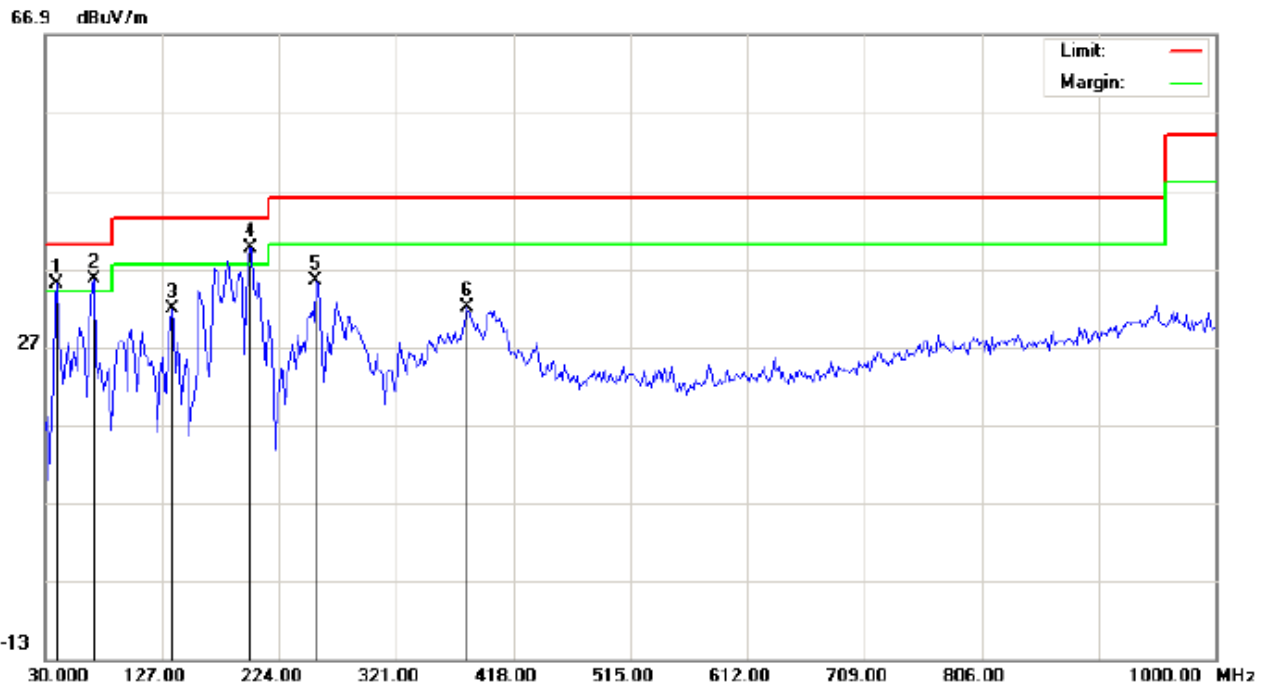
Temperature: 26

Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	39.7000	27.82	8.51	36.33	40.00	-3.67	peak			
2	!	67.1833	30.87	5.36	36.23	40.00	-3.77	peak			
3	!	152.8667	24.00	15.28	39.28	43.50	-4.22	peak			
4	!	180.3500	25.61	13.98	39.59	43.50	-3.91	peak			
5		254.7167	21.84	14.04	35.88	46.00	-10.12	peak			
6		384.0500	5.23	18.96	24.19	46.00	-21.81	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: Tablet PC

M/N: T2

Mode: High Channel TX

Note:

Polarization: **Horizontal**

Power: AC 120V/60Hz

Distance:

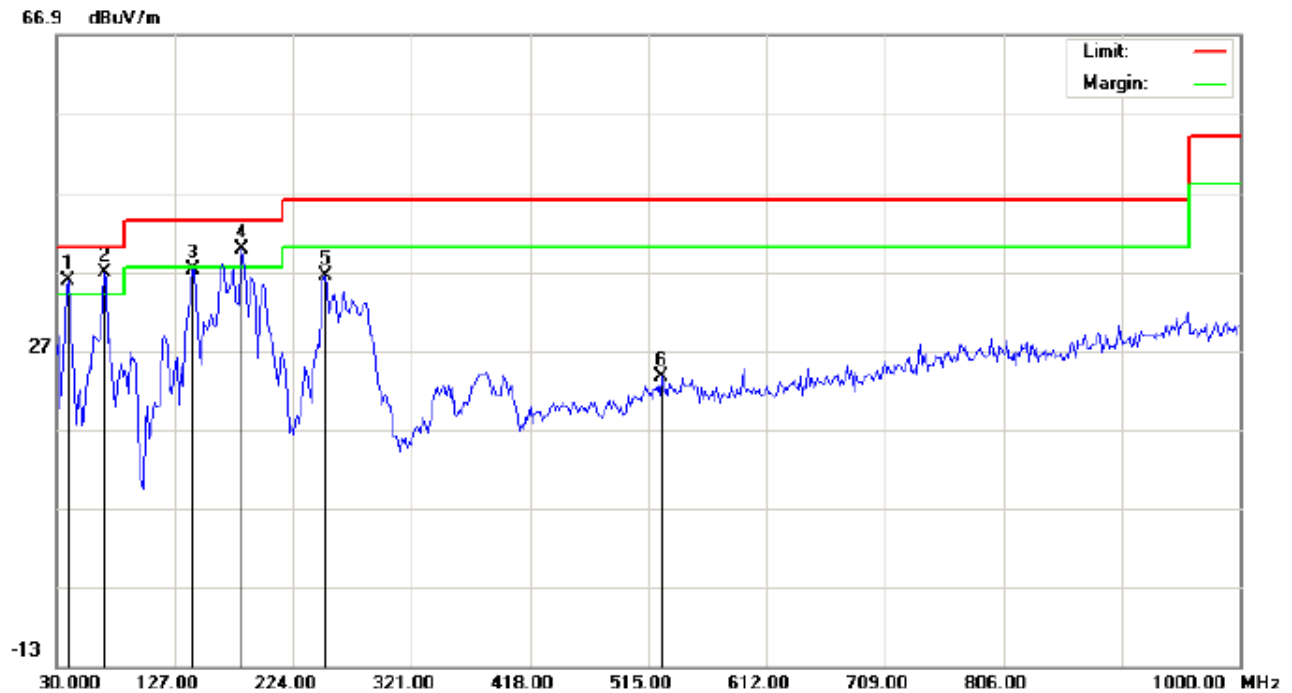
Temperature: 26

Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	!	39.7000	23.59	11.51	35.10	40.00	-4.90	peak			
2	!	70.4167	25.28	10.24	35.52	40.00	-4.48	peak			
3		135.0833	17.46	14.38	31.84	43.50	-11.66	peak			
4	*	199.7500	27.67	11.99	39.66	43.50	-3.84	peak			
5		254.7167	21.30	14.04	35.34	46.00	-10.66	peak			
6		379.2000	13.03	18.93	31.96	46.00	-14.04	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 60 %
EUT: Tablet PC Distance:
M/N: T2
Mode: High Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	!	39.7000	27.30	8.51	35.81	40.00	-4.19	peak			
2	*	68.8000	32.05	4.73	36.78	40.00	-3.22	peak			
3		141.5500	21.99	15.21	37.20	43.50	-6.30	peak			
4	!	181.9667	26.17	13.57	39.74	43.50	-3.76	peak			
5		249.8667	22.48	13.89	36.37	46.00	-9.63	peak			
6		526.3167	1.70	21.84	23.54	46.00	-22.46	peak			

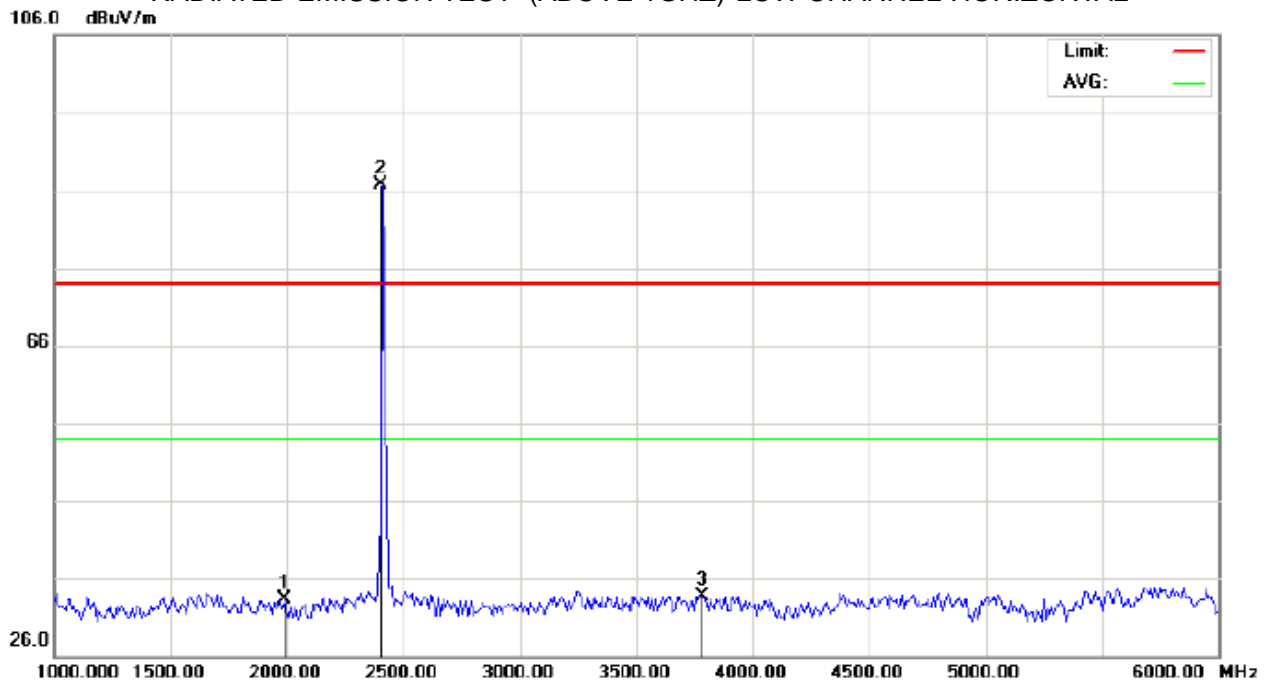
RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

RADIATED EMISSION ABOVE 1GHZ

RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL-HORIZONTAL

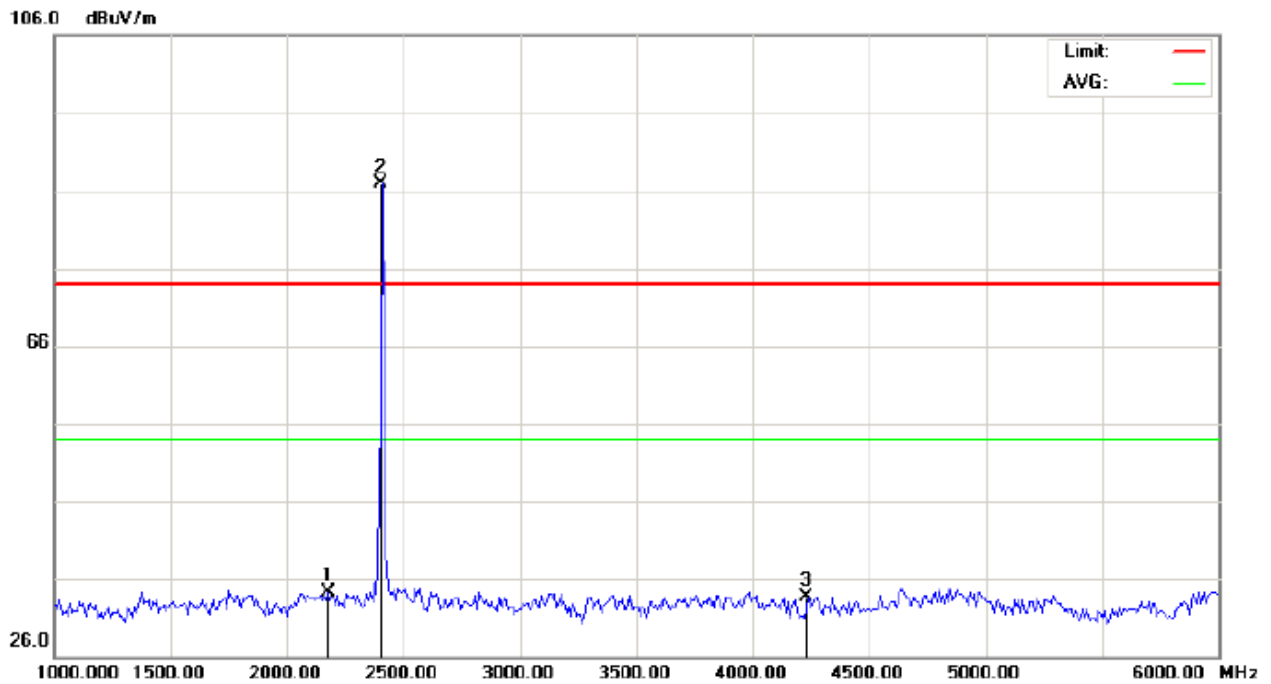


Site: site #1 Polarization: *Horizontal* Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Tablet PC Distance:
M/N: T2
Mode: Low Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		1991.667	43.48	-10.21	33.27	74.00	-40.73	peak			
2	*	2402.000	96.33	-9.68	86.65	74.00	12.65	peak			
3		3783.333	39.85	-6.14	33.71	74.00	-40.29	peak			

RESULT: PASS

RADIATED EMISSION TEST-(ABOVE 1GHZ)-LOW CHANNEL-VERTICAL

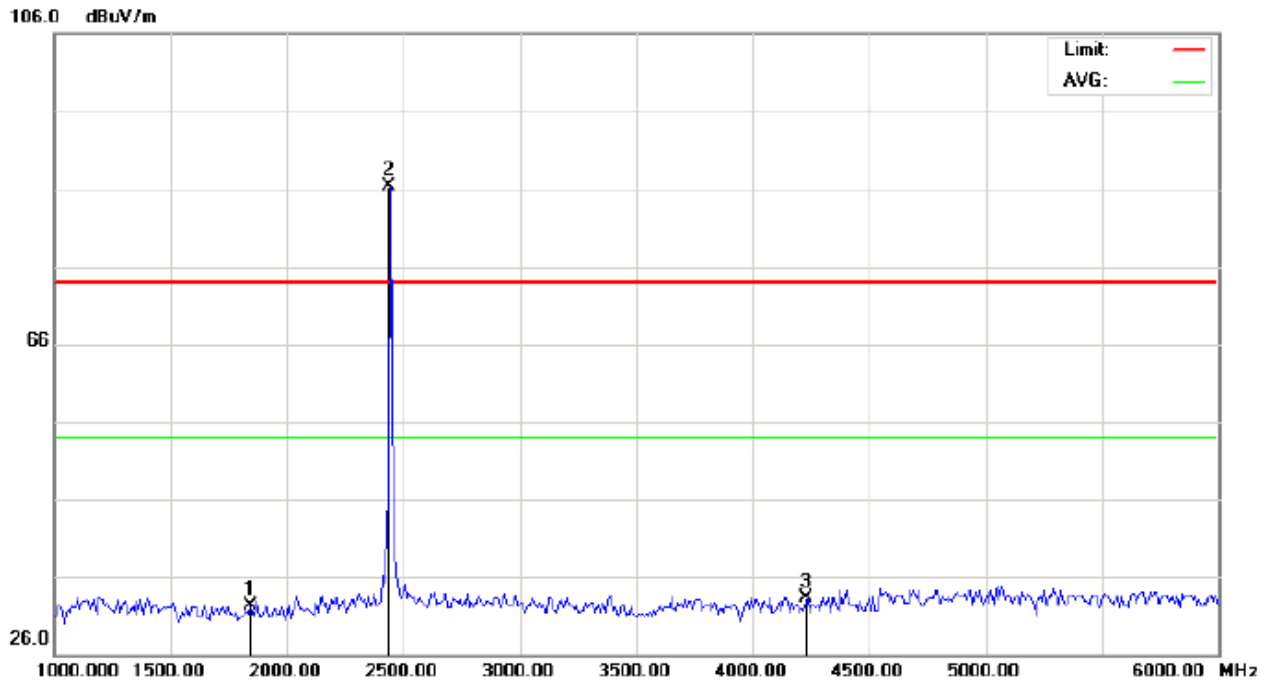


Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Tablet PC Distance:
M/N: T2
Mode: Low Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2175.000	44.16	-9.93	34.23	74.00	-39.77	peak			
2	*	2402.000	96.58	-9.68	86.90	74.00	12.90	peak			
3		4233.333	37.64	-4.02	33.62	74.00	-40.38	peak			

RESULT: PASS

RADIATED EMISSION TEST-(ABOVE 1GHZ)-MIDDLE CHANNEL-HORIZONTAL

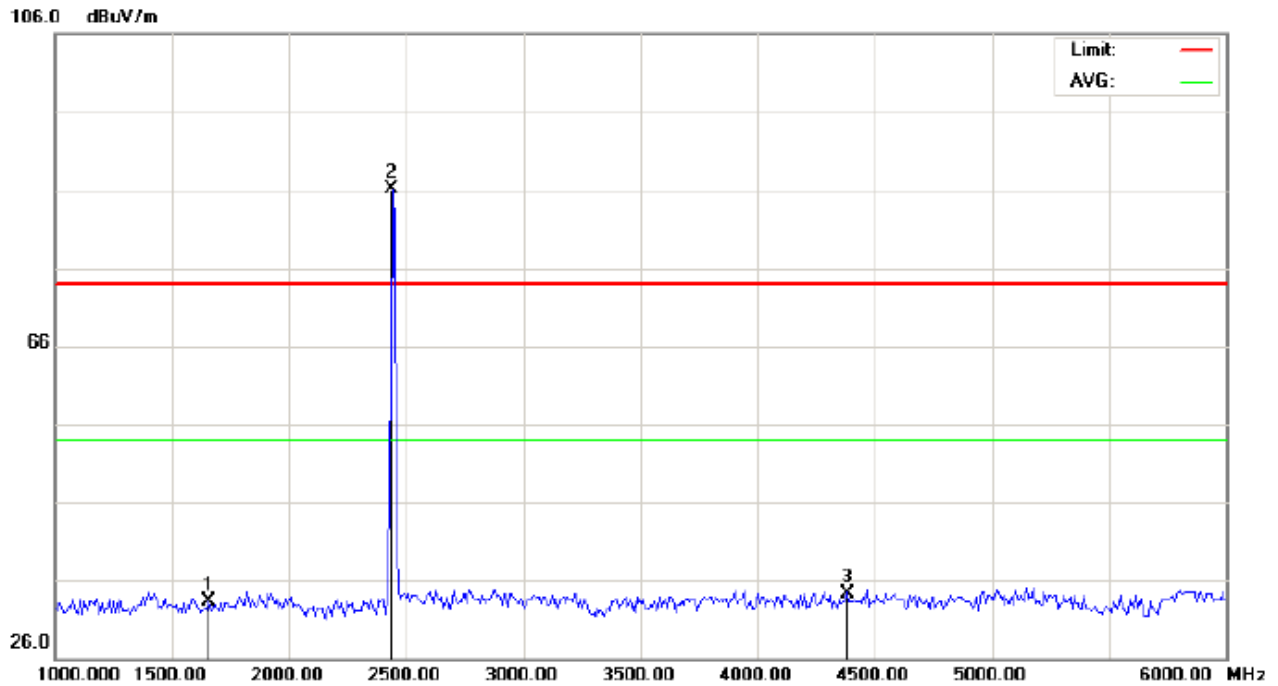


Site: site #1 Polarization: *Horizontal* Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Tablet PC Distance:
M/N: T2
Mode: Middle Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		1841.667	44.02	-11.79	32.23	74.00	-41.77	peak			
2	*	2440.000	95.88	-9.64	86.24	74.00	12.24	peak			
3		4233.333	37.41	-4.02	33.39	74.00	-40.61	peak			

RESULT: PASS

RADIATED EMISSION TEST-(ABOVE 1GHZ)-MIDDLE CHANNEL-VERTICAL

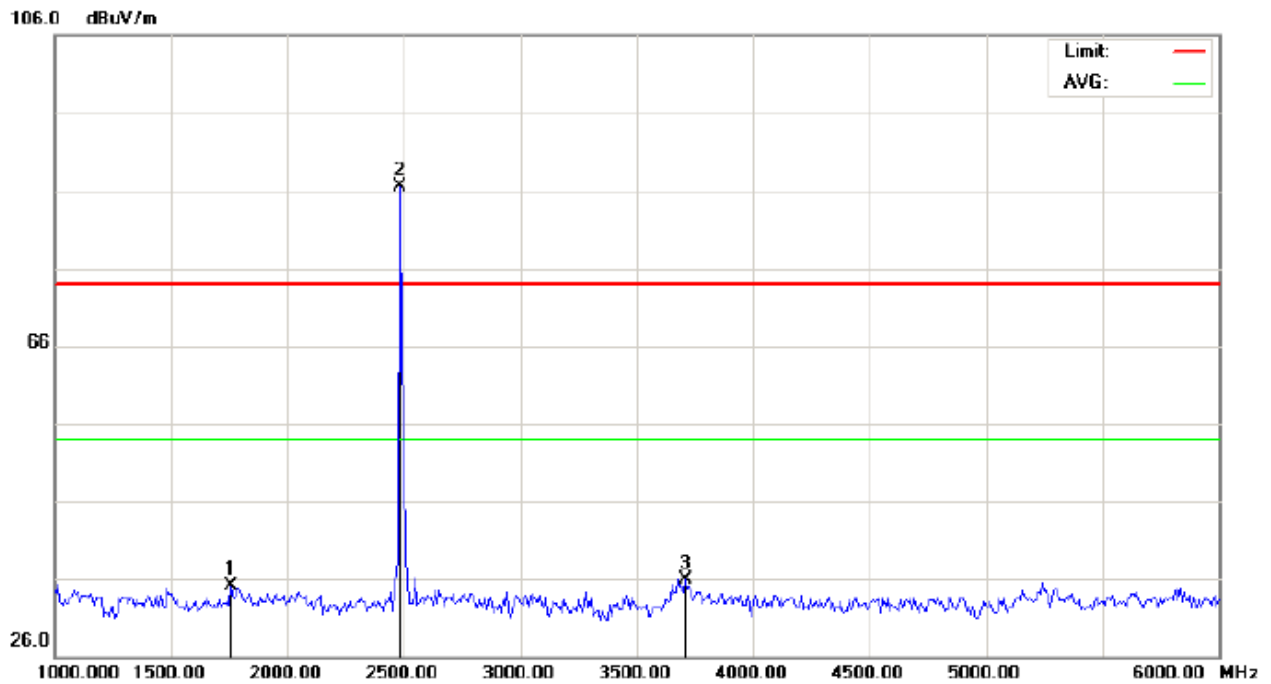


Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Tablet PC Distance:
M/N: T2
Mode: Middle Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		1658.333	46.99	-13.71	33.28	74.00	-40.72	peak			
2	*	2440.000	95.81	-9.64	86.17	74.00	12.17	peak			
3		4383.333	37.91	-3.51	34.40	74.00	-39.60	peak			

RESULT: PASS

RADIATED EMISSION TEST-(ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL

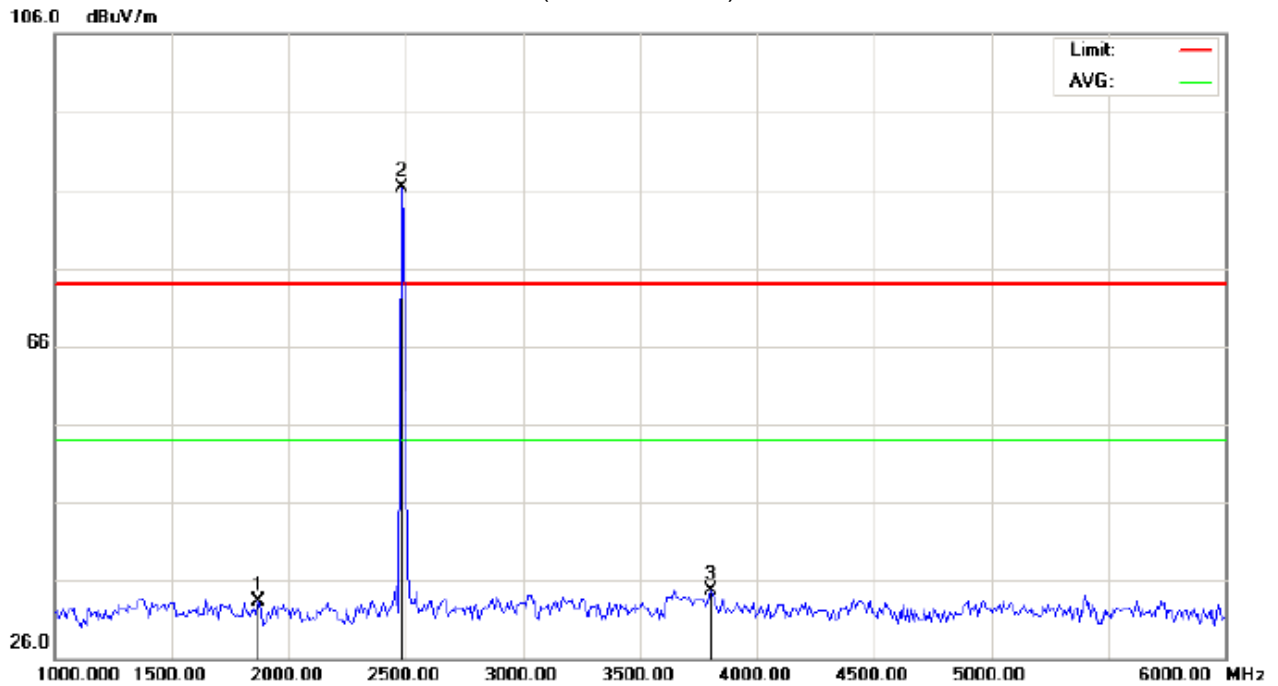


Site: site #1 Polarization: *Horizontal* Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Tablet PC Distance:
M/N: T2
Mode: High Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		1758.333	47.78	-12.66	35.12	74.00	-38.88	peak			
2	*	2480.000	96.17	-9.59	86.58	74.00	12.58	peak			
3		3708.333	42.53	-6.61	35.92	74.00	-38.08	peak			

RESULT: PASS

RADIATED EMISSION TEST-(ABOVE 1GHZ)-HIGH CHANNEL-VERTICAL



Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Tablet PC Distance:
M/N: T2
Mode: High Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		1866.667	44.79	-11.52	33.27	74.00	-40.73	peak			
2	*	2480.000	95.88	-9.59	86.29	74.00	12.29	peak			
3		3800.000	40.66	-6.04	34.62	74.00	-39.38	peak			

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor+ Cable loss-Amplifier gain,

Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

8. BAND EDGE EMISSION

8.1. MEASUREMENT PROCEDURE

1) Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

2) Conducted Emissions at the band edge

a) The transmitter output was connected to the spectrum analyzer

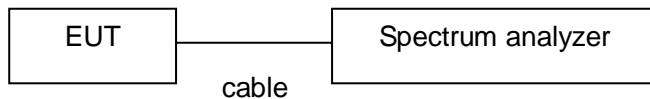
b) Set RBW=100kHz, VBW=300kHz

c) Suitable frequency span including 100kHz bandwidth from band edge

8.2. TEST SET-UP

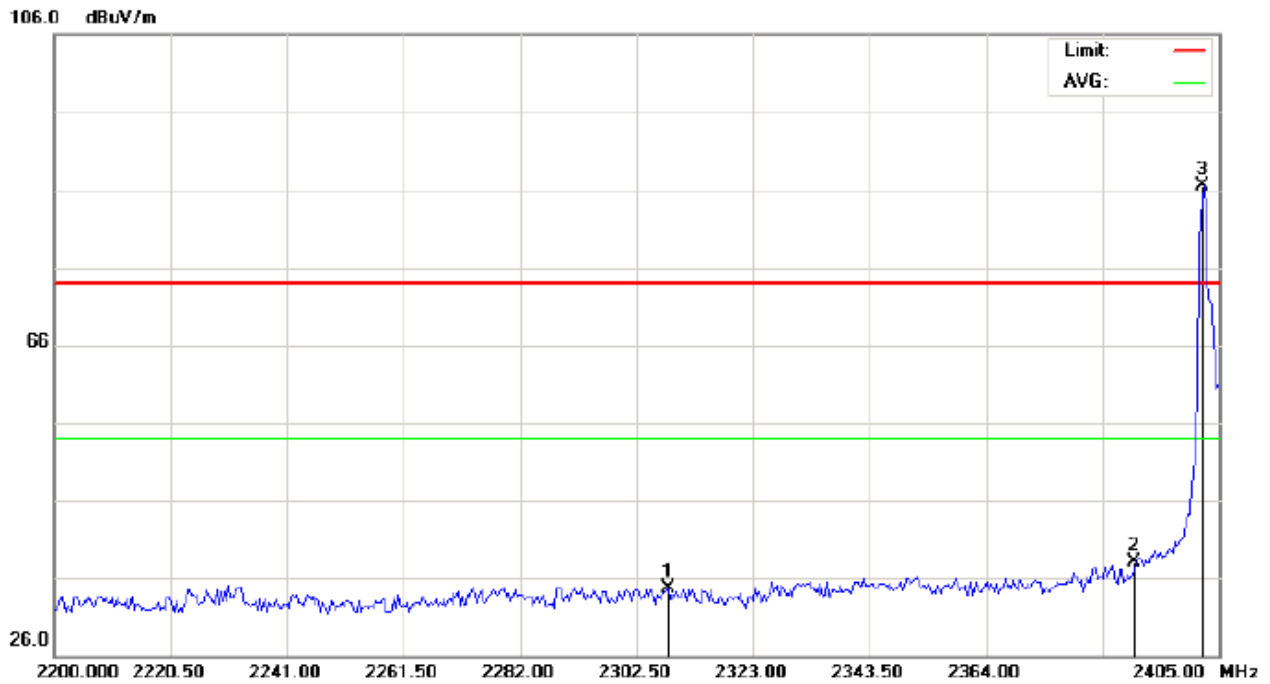
Radiated same as 6.2

Conducted set up



8.3. TEST RESULT

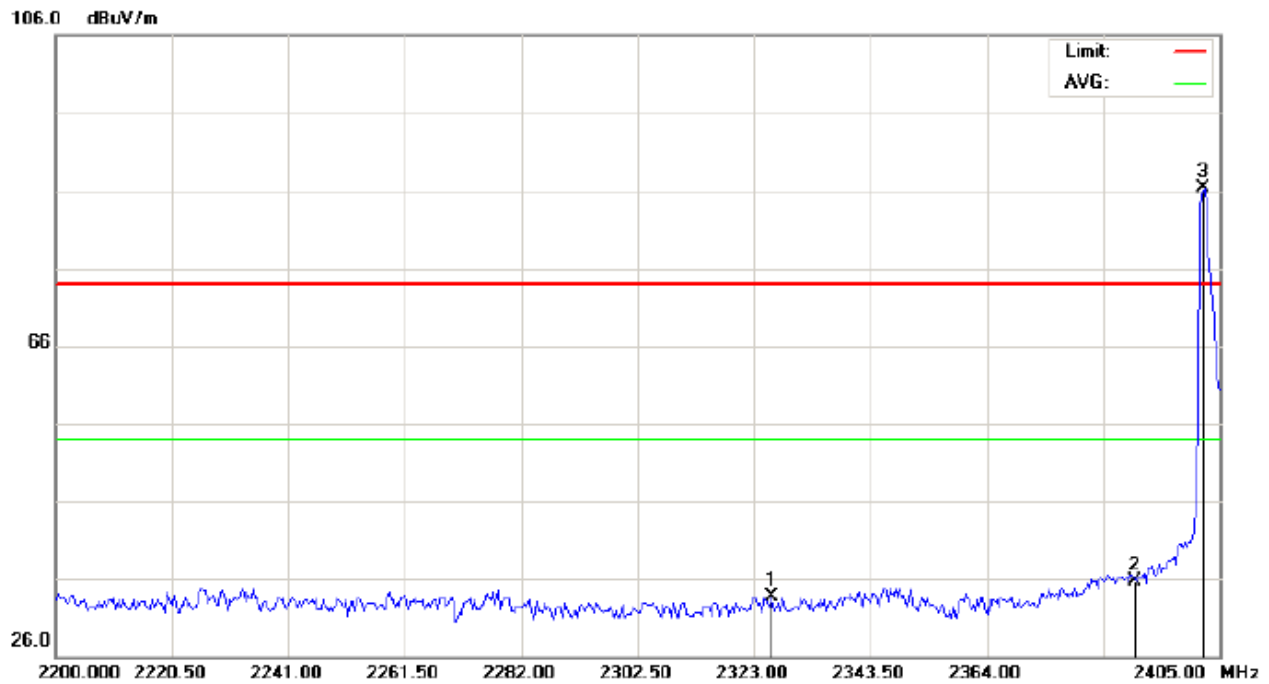
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Horizontal



Site: site #1 Polarization: **Horizontal** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Tablet PC Distance:
M/N: T2
Mode: Low Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2307.967	44.56	-9.78	34.78	74.00	-39.22	peak			
2		2390.000	47.71	-9.69	38.02	74.00	-35.98	peak			
3	*	2402.000	96.24	-9.68	86.56	74.00	12.56	peak			

TEST PLOT OF BAND EDGE FOR LOW CHANNEL - Vertical

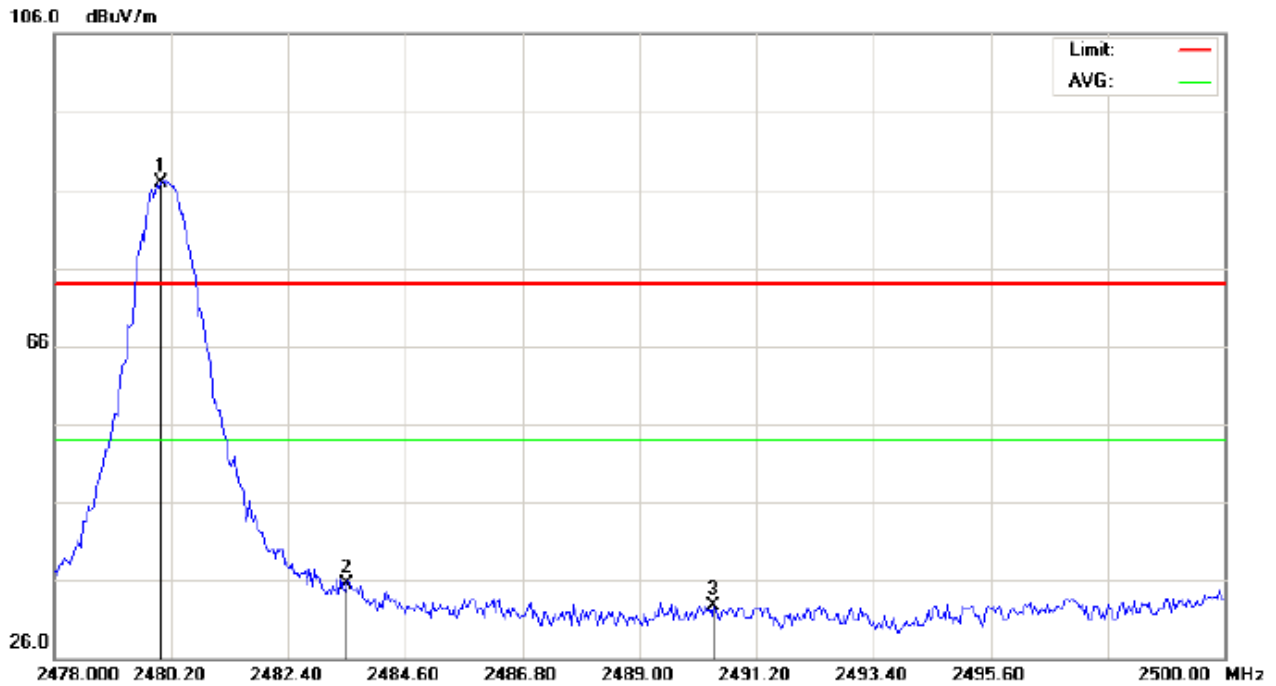


Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Tablet PC Distance:
M/N: T2
Mode: Low Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2326.075	43.41	-9.76	33.65	74.00	-40.35	peak			
2		2390.000	45.34	-9.69	35.65	74.00	-38.35	peak			
3	*	2402.000	95.99	-9.68	86.31	74.00	12.31	peak			

RESULT: PASS

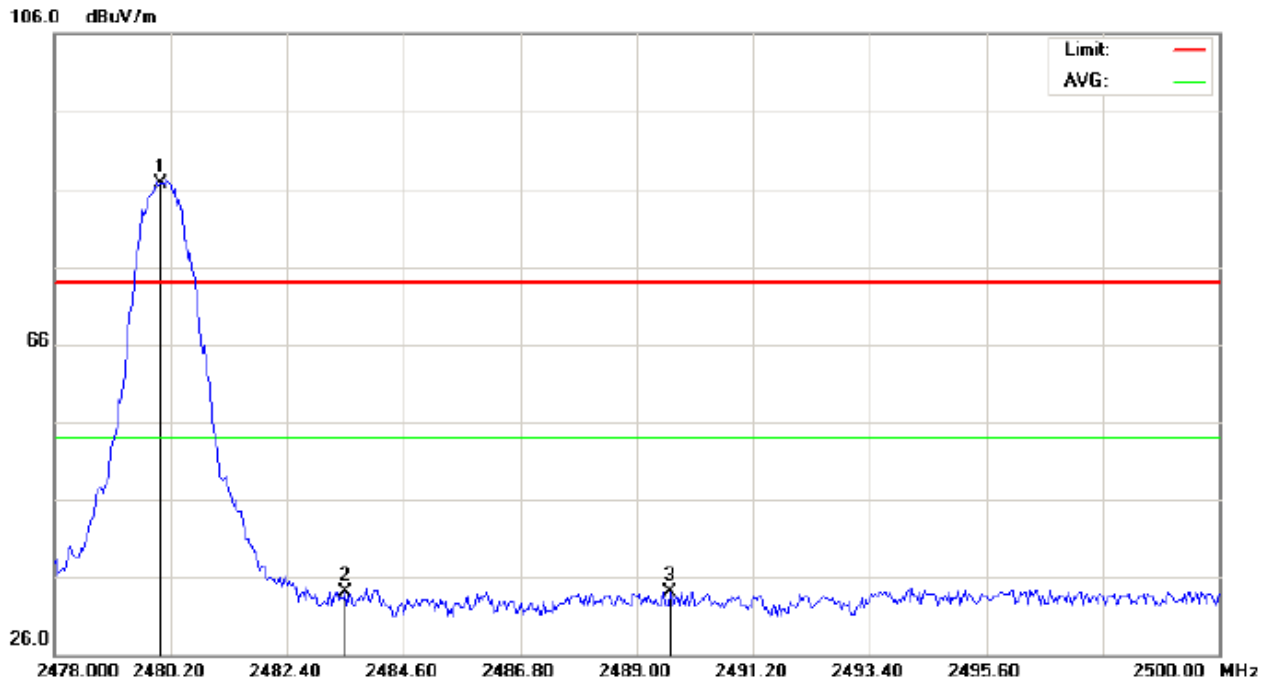
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL –Horizontal



Site: site #1 Polarization: *Horizontal* Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Tablet PC Distance:
M/N: T2
Mode: High Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	96.46	-9.59	86.87	74.00	12.87	peak			
2		2483.500	45.06	-9.59	35.47	74.00	-38.53	peak			
3		2490.393	42.36	-9.58	32.78	74.00	-41.22	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Vertical



Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: Tablet PC Distance:
M/N: T2
Mode: High Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	96.26	-9.59	86.67	74.00	12.67	peak			
2		2483.500	43.62	-9.59	34.03	74.00	-39.97	peak			
3		2489.623	43.67	-9.58	34.09	74.00	-39.91	peak			

RESULT: PASS

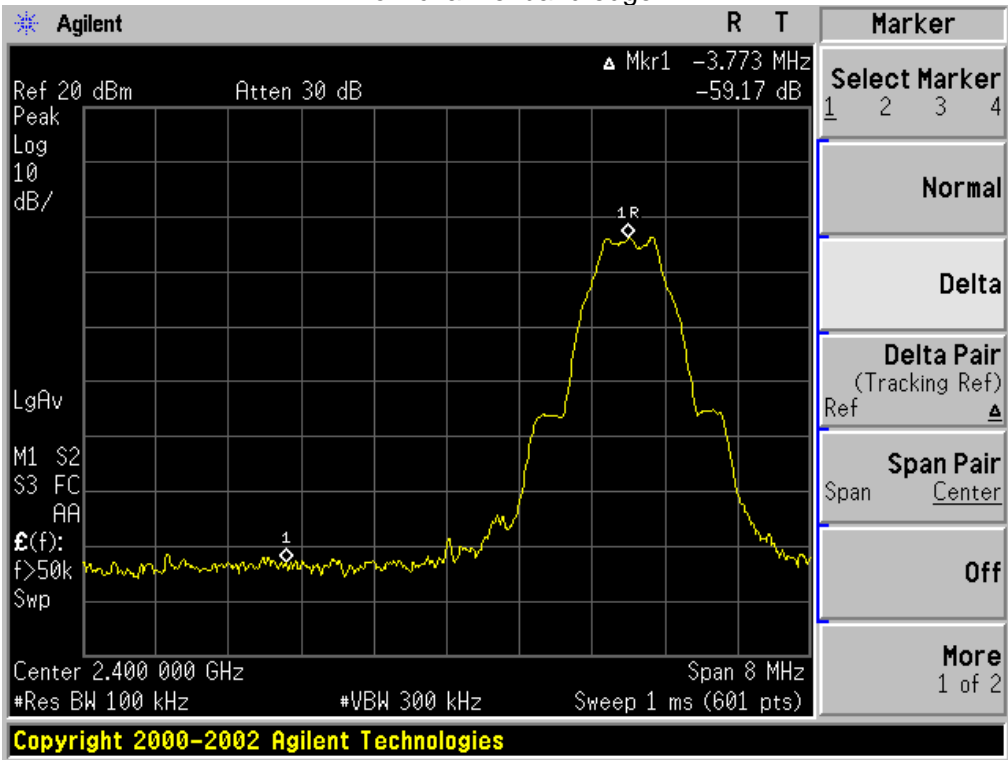
Note: The other modes radiation emission have enough 20dB margin.

Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

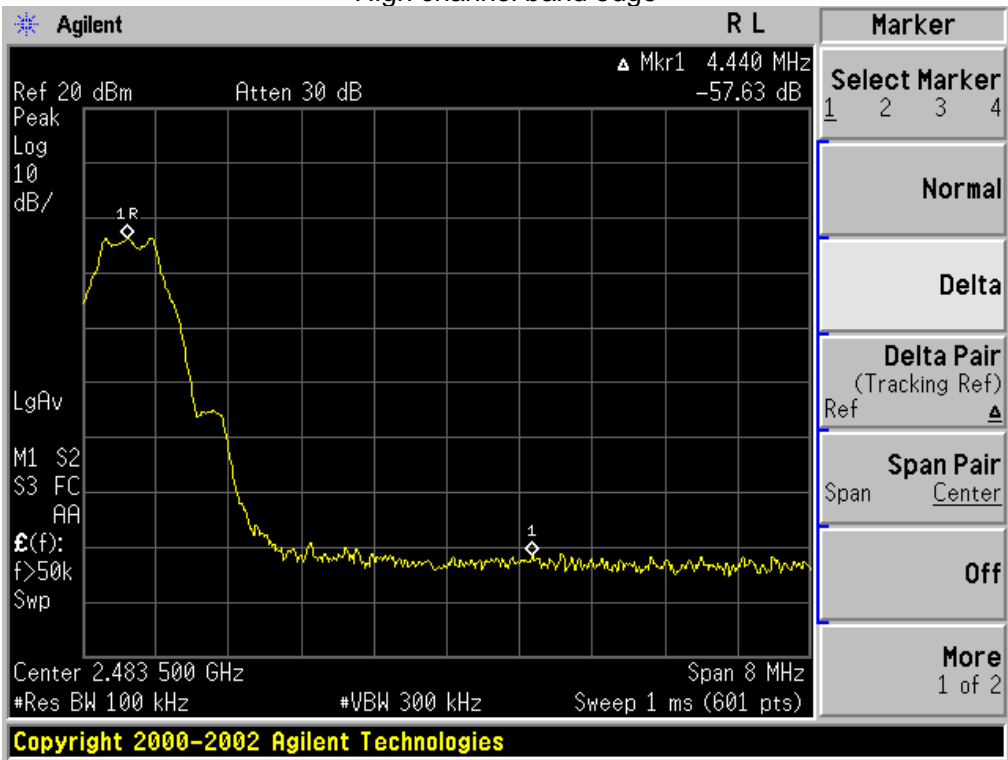
The "Factor" value can be calculated automatically by software of measurement system.

8.4. Conducted Test Result

Low channel band edge



High channel band edge



9. 6DB BANDWIDTH

9.1. TEST EQUIPMENT LIST AND DETAILS

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	US41421290	07/16/2014	07/15/2015
RECEIVER ANTENNA	ETS	2175	57337	07/16/2014	07/15/2015

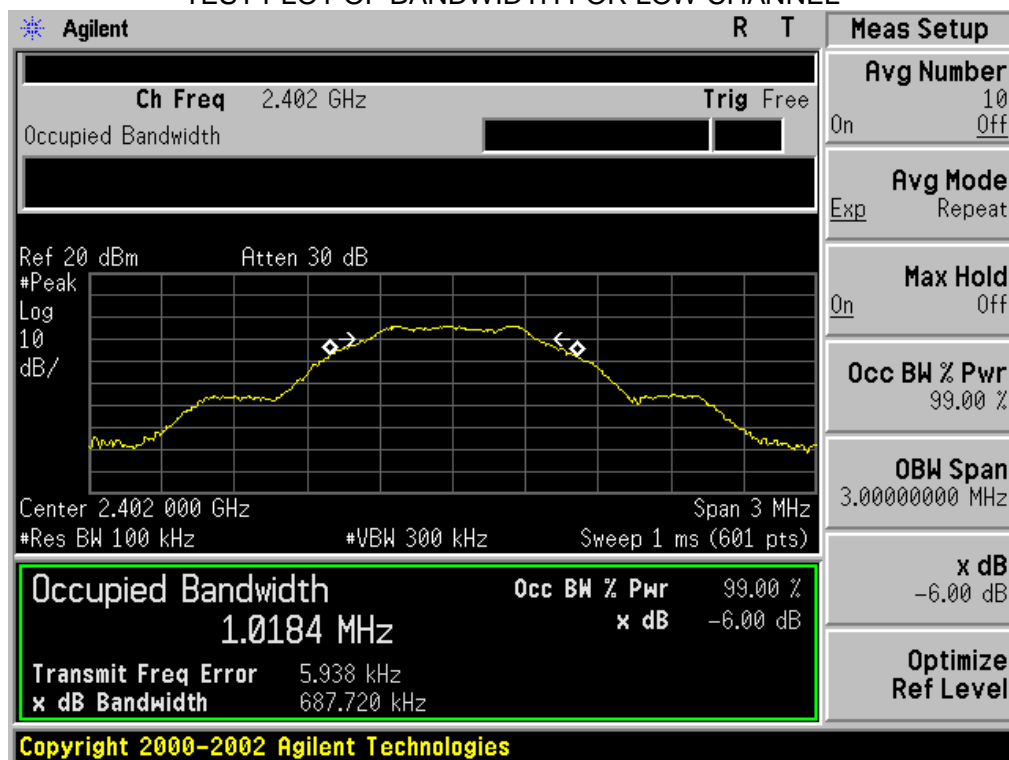
9.2. TEST PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW \geq RBW.
4. Set SPA Trace 1 Max hold, then View.

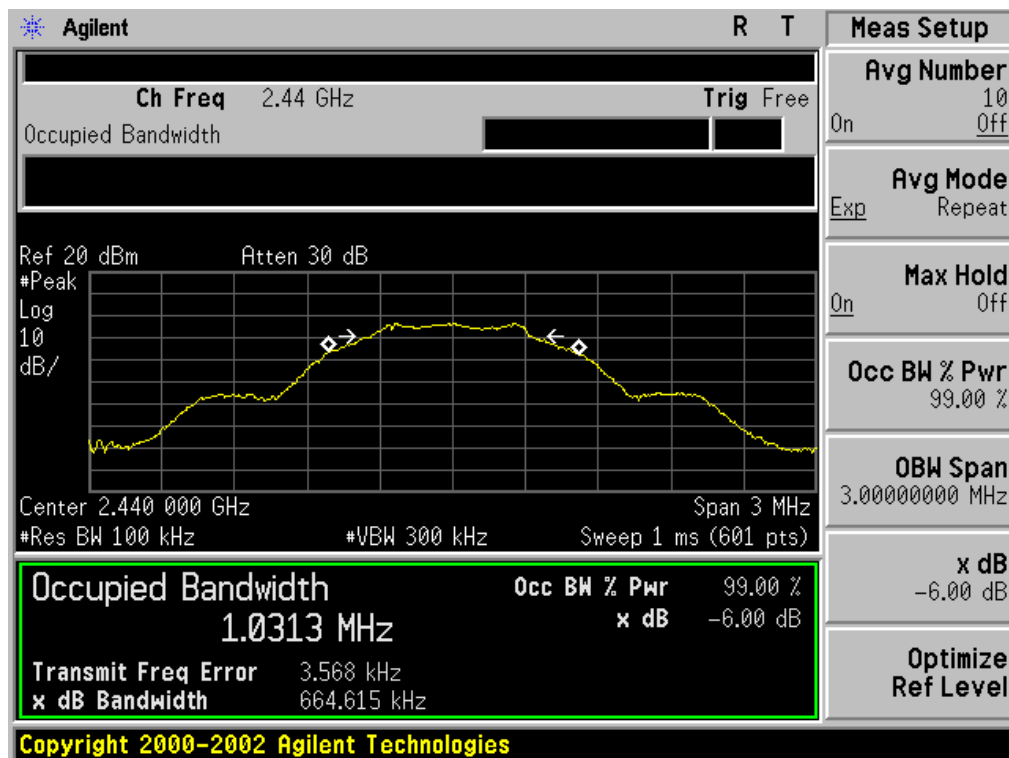
9.3. SUMMARY OF TEST RESULTS/PLOTS

Channel	6dB Bandwidth (KHz)	Minimum Limit (KHz)	Pass/Fail
Low	687.720	500KHz	Pass
Middle	664.615		Pass
High	679.000		Pass

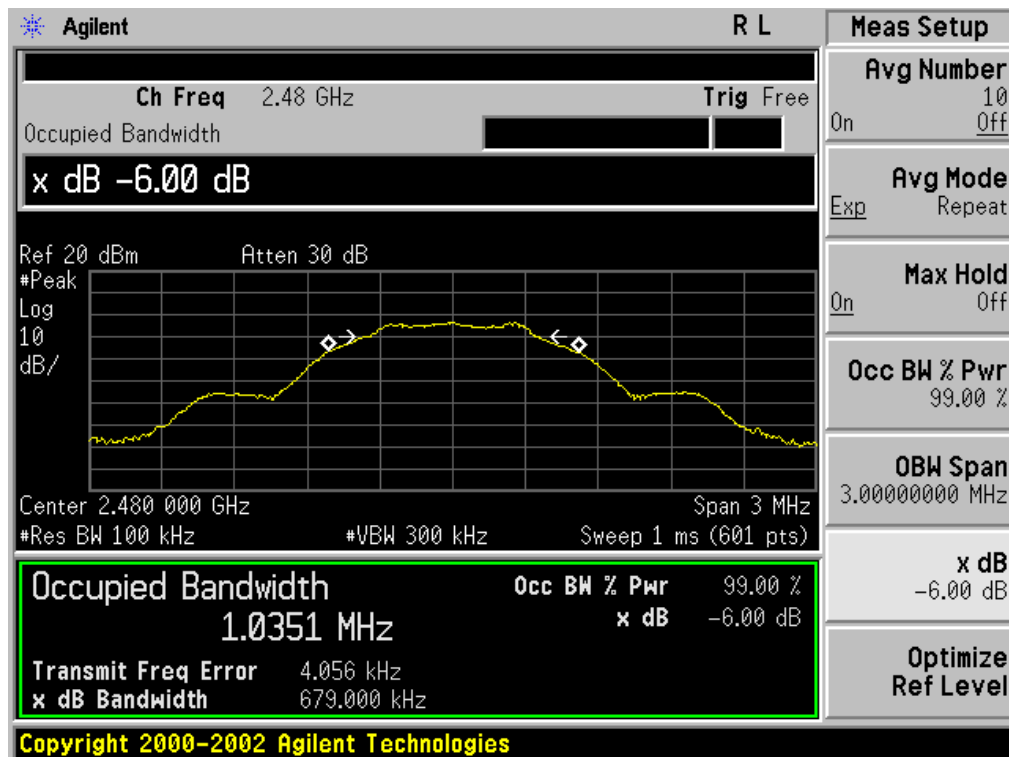
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



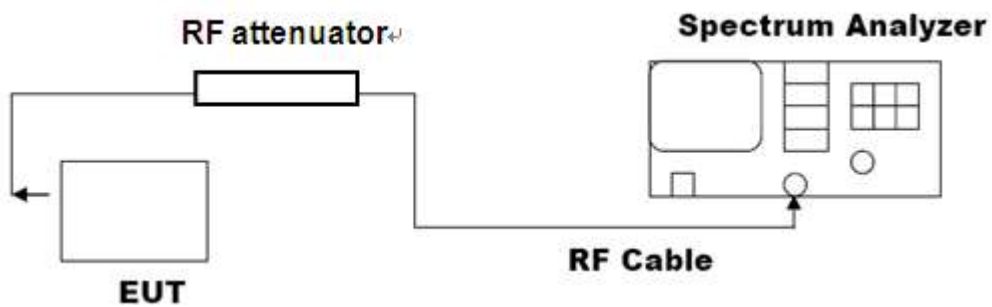
10. CONDUCTED OUTPUT POWER

10.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
3. Use the following spectrum analyzer settings:
Set the RBW \geq DTS bandwidth
Set the VBW \geq 3 x RBW
Set the span \geq 3 x RBW
Detector = peak
Sweep time = auto couple
Trace mode = max hold
5. Allow the trace to stabilize. Use peak marker function to determine the peak amplitude level
6. Record the result form the Spectrum Analyzer.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

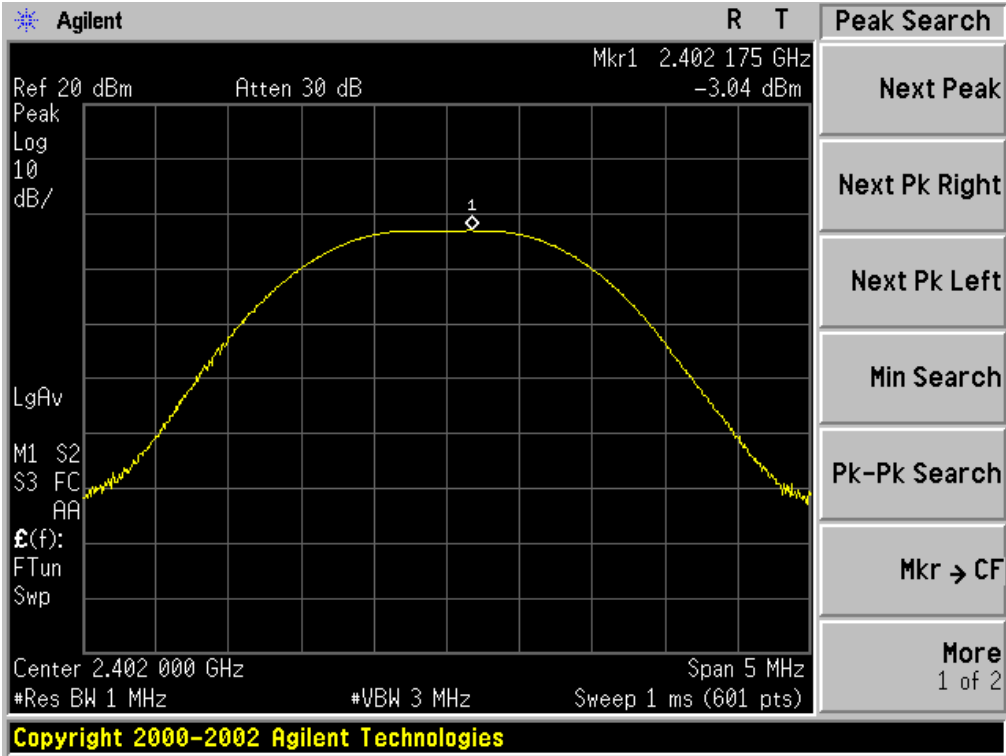
10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



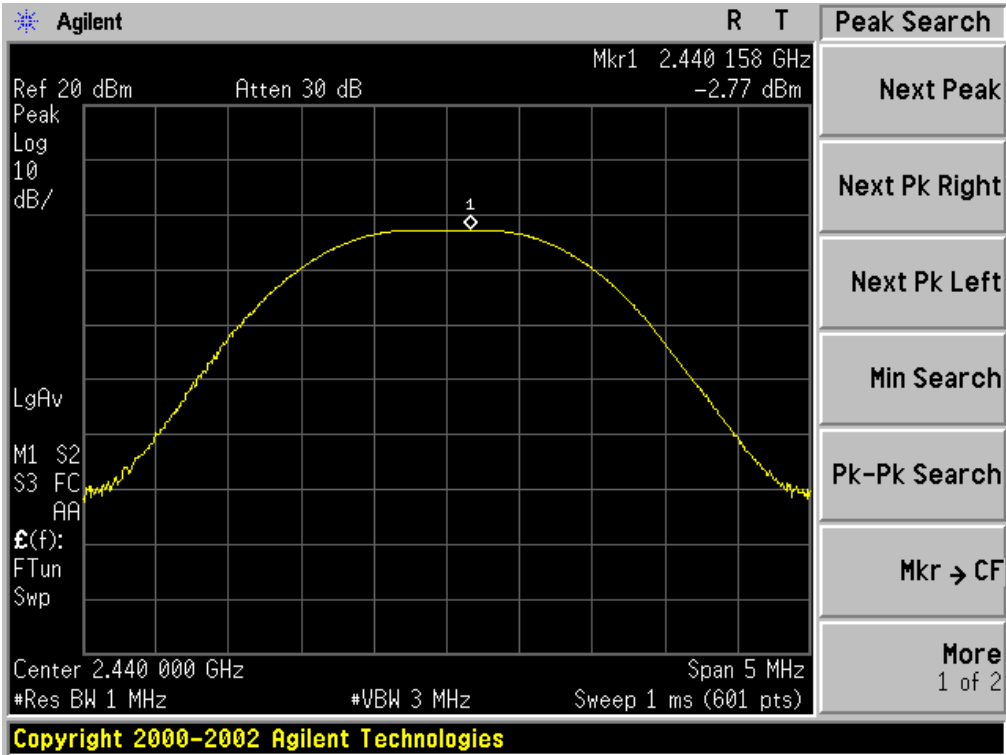
10.3. LIMITS AND MEASUREMENT RESULT

Channel	Peak Power (dBm)	Applicable Limits (dBm)	Pass/Fail
Low Channel	-3.04	20	Pass
Middle Channel	-2.77	20	Pass
High Channel	-2.89	20	Pass

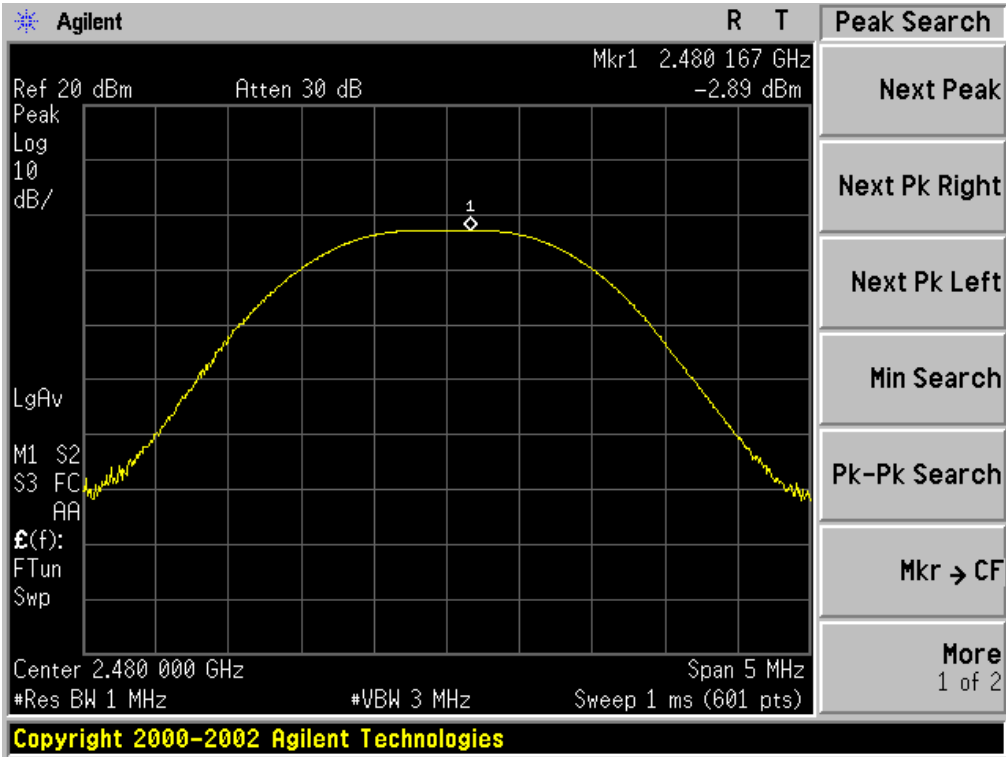
The Low Channel Result



The Middle Channel Result



The High Channel Result



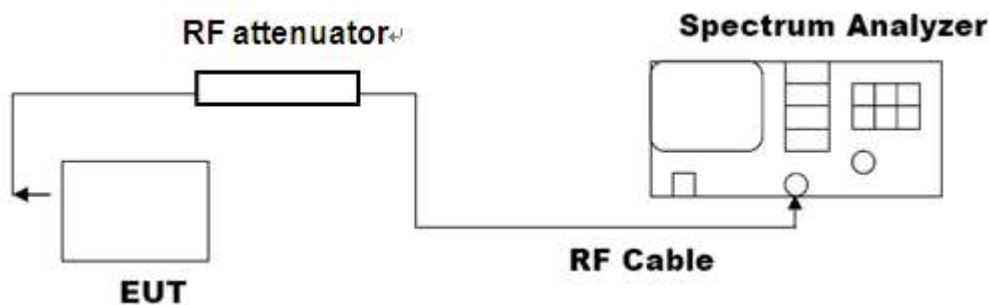
11. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

11.1 MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
3. Use the following spectrum analyzer settings:
Set the RBW \geq DTS bandwidth
Set the VBW \geq 3 x RBW
Set the span \geq 3 x RBW
Detector = peak
Sweep time = auto couple
Trace mode = max hold
4. Allow the trace to stabilize. Use peak marker function to determine the peak amplitude level
5. Record the result form the Spectrum Analyzer.

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

11.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



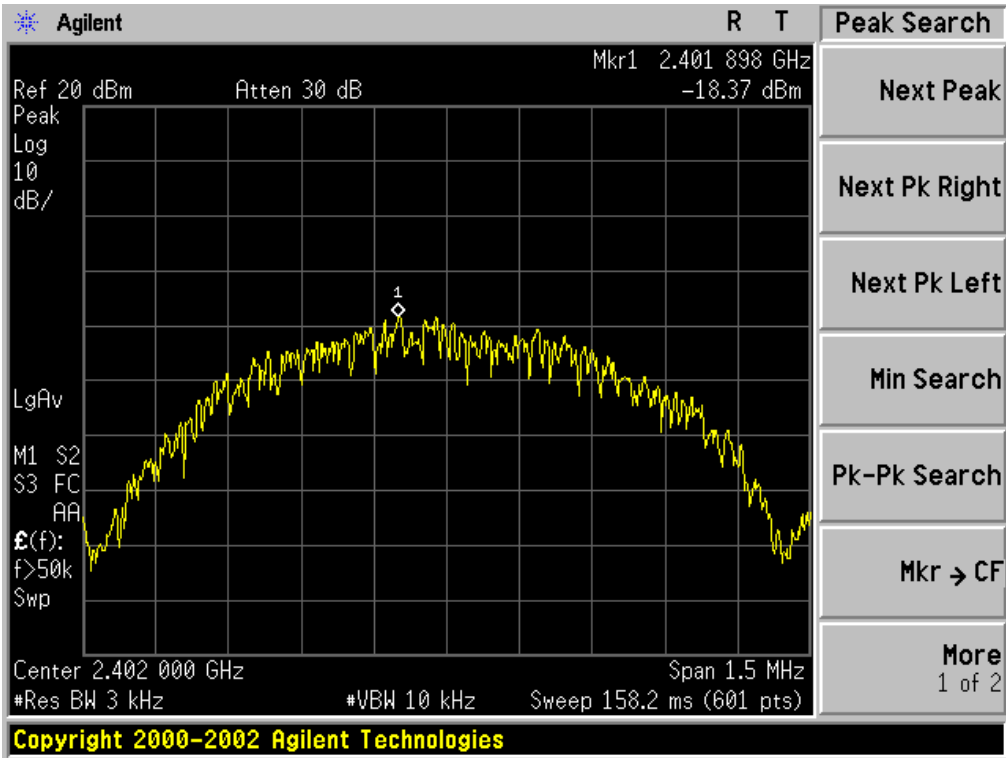
11.3 MEASUREMENT EQUIPMENT USED

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	US41421290	07/16/2014	07/15/2015
RECEIVER ANTENNA	ETS	2175	57337	07/16/2014	07/15/2015

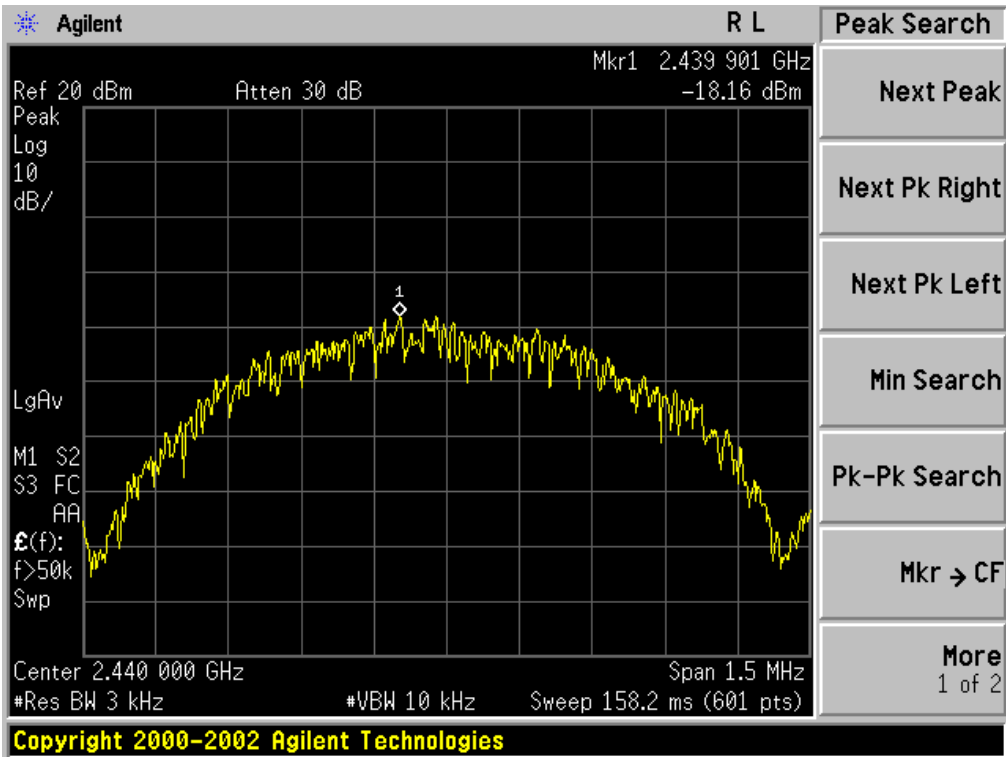
11.4 LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm)	Limit (dBm)	Result
Low Channel	-18.37	8	Pass
Middle Channel	-18.16	8	Pass
High Channel	-18.26	8	Pass

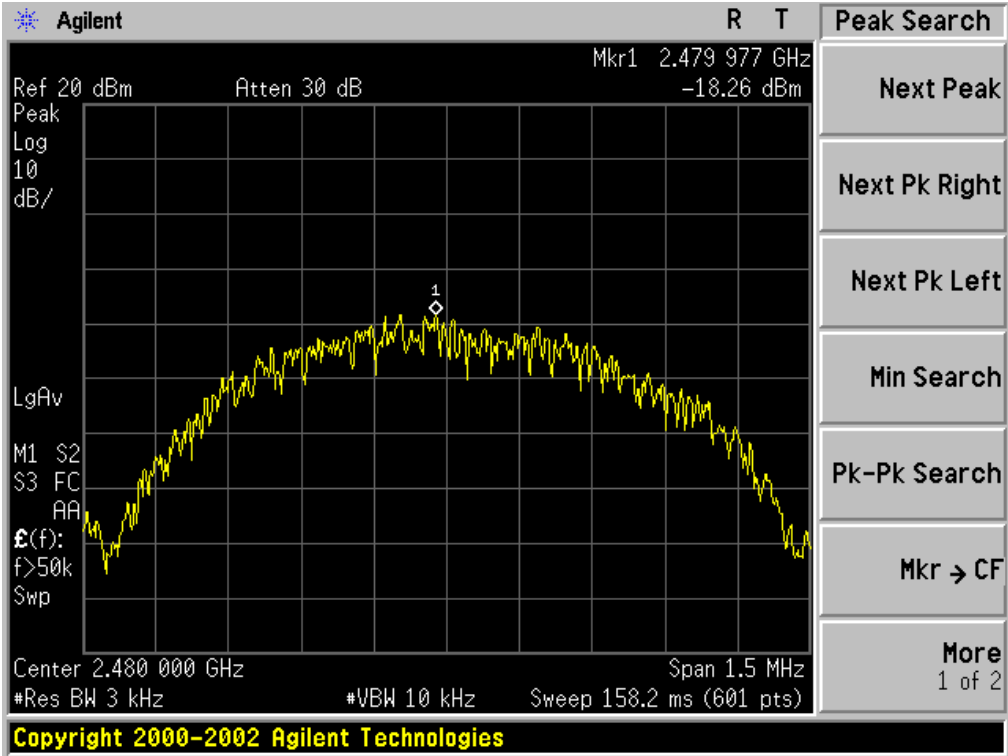
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



12. FCC LINE CONDUCTED EMISSION TEST

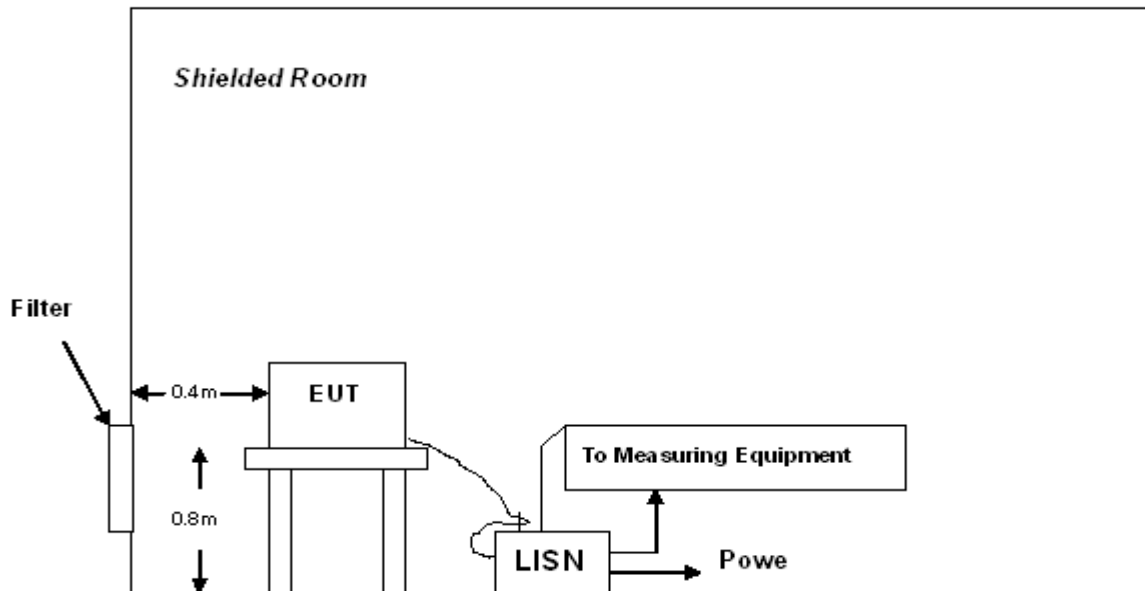
12.1 LIMITS

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

****Note:** 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

12.2 TEST SETUP



A: Powered through filter

12.3 PRELIMINARY PROCEDURE

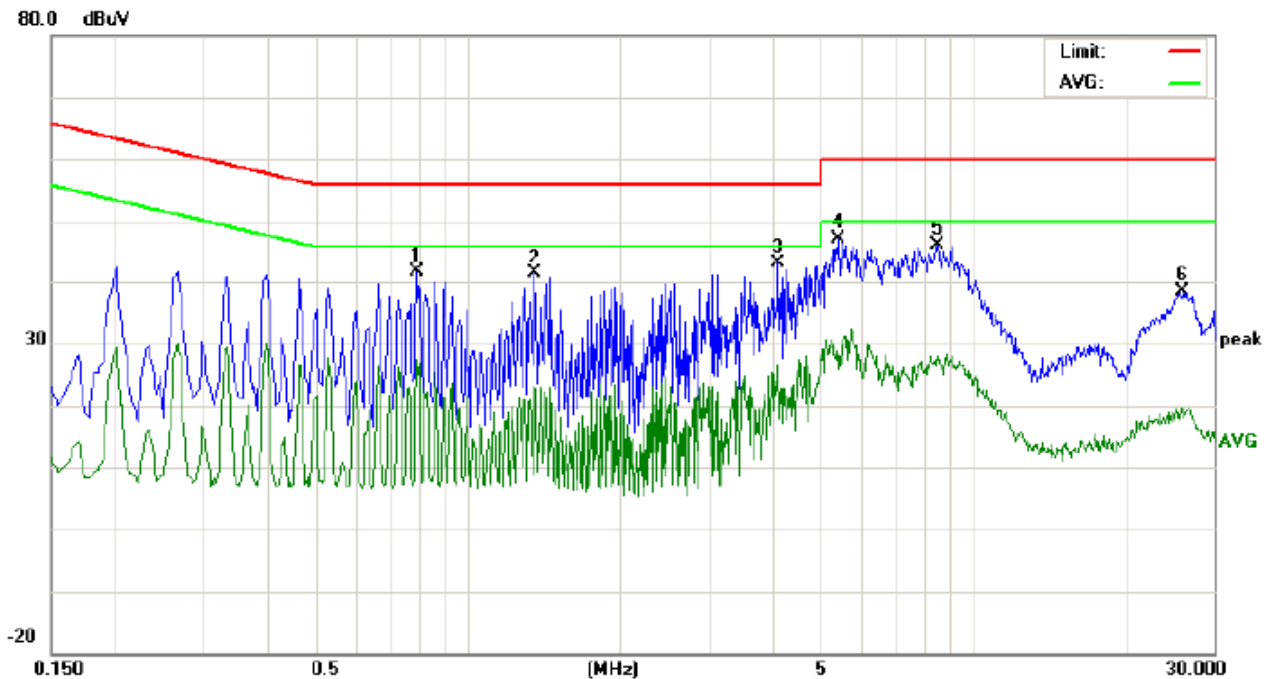
- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) All support equipments received AC120V/60Hz power from a LISN, if any.
- 5) The EUT received power by adapter which received power by a LISN.
- 6) The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test.
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4 FINAL TEST PROCEDURE

- 10) EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 11) 2) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 12) 3) The test data of the worst case condition(s) was reported on the Summary Data page.

12.5 TEST RESULT OF POWER LINE

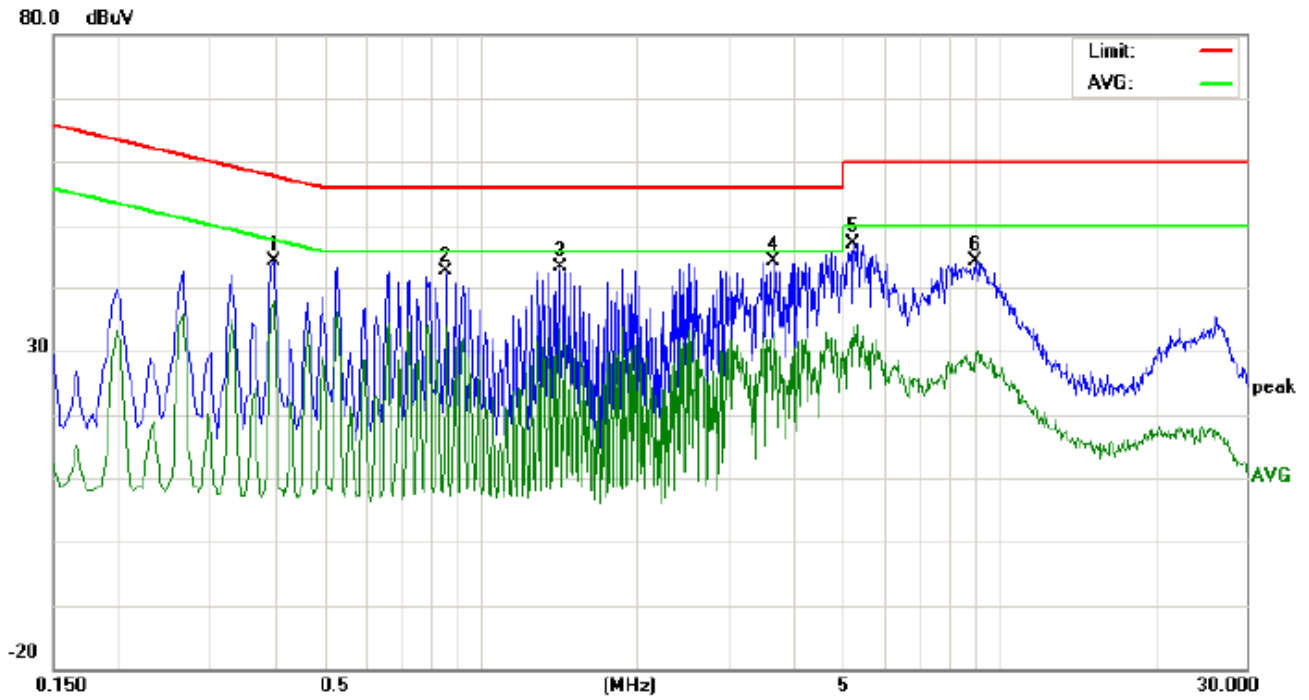
Line Conducted Emission Test Line 1-L



Site: Conduction Phase: **L1** Temperature: 26
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 %
EUT: Tablet PC
M/N: T2
Mode: Normal Operating(BT)
Note:

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.7940	31.41		17.12	10.28	41.69		27.40	56.00	46.00	-14.31	-18.60	P	
2	1.3580	31.02		12.74	10.38	41.40		23.12	56.00	46.00	-14.60	-22.88	P	
3	4.1260	32.82		16.26	10.37	43.19		26.63	56.00	46.00	-12.81	-19.37	P	
4	5.4260	36.98		17.91	10.25	47.23		28.16	60.00	50.00	-12.77	-21.84	P	
5	8.5100	35.90		17.64	10.34	46.24		27.98	60.00	50.00	-13.76	-22.02	P	
6	26.1259	28.27		8.67	10.11	38.38		18.78	60.00	50.00	-21.62	-31.22	P	

Line Conducted Emission Test Line 1-N



Site: Conduction Phase: **N** Temperature: 26
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 %
EUT: Tablet PC
M/N: T2
Mode: Normal Operating(BT)
Note:

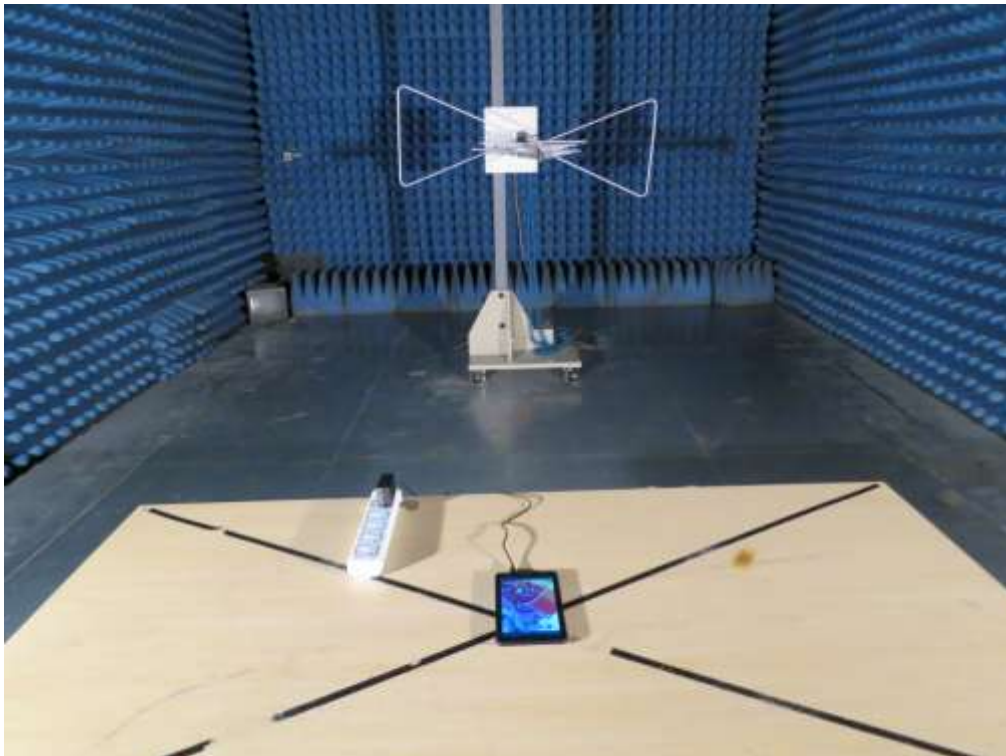
No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.3980	34.03		27.58	10.33	44.36		37.91	57.89	47.89	-13.53	-9.98	P	
2	0.8580	32.38		23.78	10.36	42.74		34.14	56.00	46.00	-13.26	-11.86	P	
3	1.4220	32.96		23.37	10.38	43.34		33.75	56.00	46.00	-12.66	-12.25	P	
4	3.6700	34.00		22.34	10.48	44.48		32.82	56.00	46.00	-11.52	-13.18	P	
5	5.2220	36.95		23.64	10.24	47.19		33.88	60.00	50.00	-12.81	-16.12	P	
6	8.9900	34.15		19.48	10.21	44.36		29.69	60.00	50.00	-15.64	-20.31	P	

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



OPEN VIEW OF EUT-1

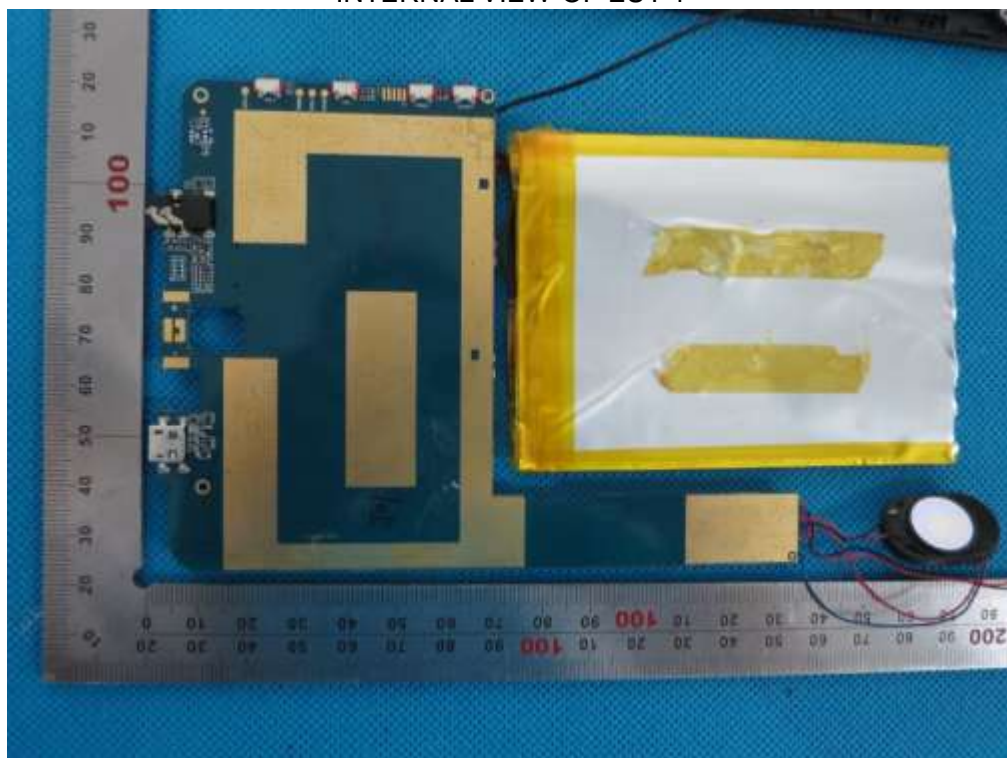


GPS &
WIFI & BT
Antenna

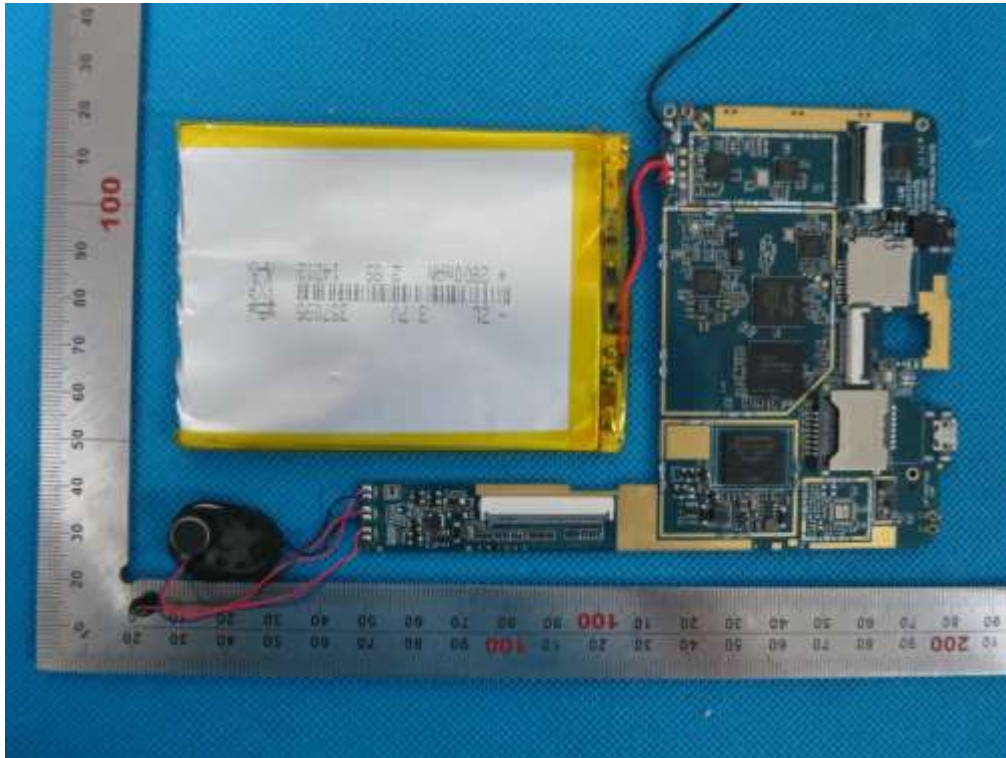
OPEN VIEW OF EUT-2



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



----END OF REPORT----