

APPLICATION CERTIFICATION
On Behalf of
COGENT SYSTEMS, INC.

Cogent Multifunction Fingerprint Scanner
Model No.: Mobile Ident™ II

FCC ID: TLDMOBILEIDENTII

Prepared for : COGENT SYSTEMS, INC.
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District of Hi-tech Park, Nanshan District, Shenzhen
China

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Report Number : ATE20082130
Date of Test : November 1-15, 2008
Date of Report : November 17, 2008

TABLE OF CONTENTS

Description	Page
Test Report Certification	
1. GENERAL INFORMATION	6
1.1. Description of Device (EUT).....	6
1.2. Description of Test Facility	7
1.3. Measurement Uncertainty	7
2. MEASURING DEVICE AND TEST EQUIPMENT	8
3. OPERATION OF EUT DURING TESTING	9
3.1. Operating Mode	9
3.2. Configuration and peripherals	9
4. TEST PROCEDURES AND RESULTS	10
5. CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.107(A)	11
5.1. Block Diagram of Test Setup.....	11
5.2. The Emission Limit	12
5.3. Configuration of EUT on Measurement	12
5.4. Operating Condition of EUT	12
5.5. Test Procedure	12
5.6. Power Line Conducted Emission Measurement Results	13
6. RADIATED EMISSION FOR FCC PART 15 SECTION 15.109 (A).....	16
6.1. Block Diagram of Test Setup.....	16
6.2. The Emission Limit For Section 15.109 (a)	17
6.3. EUT Configuration on Measurement	17
6.4. Operating Condition of EUT	17
6.5. Test Procedure	18
6.6. The Emission Measurement Result	19
7. 20DB BANDWIDTH TEST (BLUETOOTH)	25
7.1. Block Diagram of Test Setup.....	25
7.2. The Requirement For Section 15.247(a)(1).....	25
7.3. EUT Configuration on Measurement	25
7.4. Operating Condition of EUT	25
7.5. Test Procedure	26
7.6. Test Result	26
8. CARRIER FREQUENCY SEPARATION TEST (BLUETOOTH)	30
8.1. Block Diagram of Test Setup.....	30
8.2. The Requirement For Section 15.247(a)(1).....	30
8.3. EUT Configuration on Measurement	30
8.4. Operating Condition of EUT	30
8.5. Test Procedure	31
8.6. Test Result	31
9. NUMBER OF HOPPING FREQUENCY TEST (BLUETOOTH)	35
9.1. Block Diagram of Test Setup.....	35
9.2. The Requirement For Section 15.247(a)(1)(iii).....	35
9.3. EUT Configuration on Measurement	35
9.4. Operating Condition of EUT	35
9.5. Test Procedure	36

9.6.	Test Result	36
10.	DWELL TIME TEST (BLUETOOTH).....	40
10.1.	Block Diagram of Test Setup.....	40
10.2.	The Requirement For Section 15.247(a)(1)(iii).....	40
10.3.	EUT Configuration on Measurement	40
10.4.	Operating Condition of EUT	40
10.5.	Test Procedure	41
10.6.	Test Result	41
11.	MAXIMUM PEAK OUTPUT POWER TEST (BLUETOOTH).....	45
11.1.	Block Diagram of Test Setup.....	45
11.2.	The Requirement For Section 15.247(b)(1).....	45
11.3.	EUT Configuration on Measurement	45
11.4.	Operating Condition of EUT	45
11.5.	Test Procedure	46
11.6.	Test Result	46
12.	RADIATED EMISSION TEST (BLUETOOTH).....	50
12.1.	Block Diagram of Test Setup.....	50
12.2.	The Limit For Section 15.247(d).....	51
12.3.	Restricted bands of operation	51
12.4.	Configuration of EUT on Measurement	52
12.5.	Test Procedure	52
12.6.	The Field Strength of Radiation Emission Measurement Results	53
13.	BAND EDGE COMPLIANCE TEST (BLUETOOTH).....	74
13.1.	Block Diagram of Test Setup.....	74
13.2.	The Requirement For Section 15.247(d)	74
13.3.	EUT Configuration on Measurement	74
13.4.	Operating Condition of EUT	75
13.5.	Test Procedure	75
13.6.	Test Result	76
14.	ANTENNA REQUIREMENT (BLUETOOTH).....	81
14.1.	The Requirement	81
14.2.	Antenna Construction	81
15.	6DB BANDWIDTH MEASUREMENT (WI-FI).....	82
15.1.	Block Diagram of Test Setup.....	82
15.2.	The Requirement For Section 15.247(a)(1).....	82
15.3.	EUT Configuration on Measurement	82
15.4.	Operating Condition of EUT	82
15.5.	Test Procedure	83
15.6.	Test Result	83
16.	MAXIMUM PEAK OUTPUT POWER (WI-FI).....	87
16.1.	Block Diagram of Test Setup.....	87
16.2.	The Requirement For Section 15.247(b)(3).....	87
16.3.	EUT Configuration on Measurement	87
16.4.	Operating Condition of EUT	87
16.5.	Test Procedure	88
16.6.	Test Result	88
17.	POWER SPECTRAL DENSITY MEASUREMENT (WI-FI).....	92
17.1.	Block Diagram of Test Setup.....	92
17.2.	The Requirement For Section 15.247(e).....	92
17.3.	EUT Configuration on Measurement	92
17.4.	Operating Condition of EUT	92
17.5.	Test Procedure	93
17.6.	Test Result	93

18. BAND EDGE COMPLIANCE TEST (WI-FI).....	97
18.1. Block Diagram of Test Setup.....	97
18.2. The Requirement For Section 15.247(d)	97
18.3. EUT Configuration on Measurement	97
18.4. Operating Condition of EUT	98
18.5. Test Procedure	98
18.6. Test Result	99
19. RADIATED EMISSION TEST (WI-FI).....	102
19.1. Block Diagram of Test Setup.....	102
19.2. The Limit For Section 15.247(d)	103
19.3. Restricted bands of operation	103
19.4. Configuration of EUT on Measurement	104
19.5. Test Procedure	104
19.6. The Field Strength of Radiation Emission Measurement Results	105
20. ANTENNA REQUIREMENT (WI-FI).....	126
20.1. The Requirement	126
20.2. Antenna Construction	126

Test Report Certification

Applicant : COGENT SYSTEMS, INC.
Manufacturer : COGENT SYSTEMS, INC.
EUT Description : Cogent Multifunction Fingerprint Scanner
(A) MODEL NO.: Mobile Ident™ II
(B) SERIAL NO.: N/A
(C) POWER SUPPLY: 3.7V DC (Li-ion battery 1×)

Measurement Procedure Used:

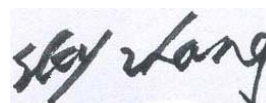
FCC Rules and Regulations Part 15 Subpart B: 2008
FCC Rules and Regulations Part 15 Subpart C Section 15.247:2008
ANSI C63.4: 2003

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B and Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

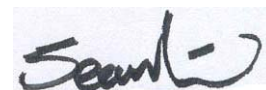
Date of Test : November 1-15, 2008

Prepared by :



(Engineer)

Approved & Authorized Signer :



(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	Cogent Multifunction Fingerprint Scanner
		The EUT include Bluetooth module, Wi-Fi module, GPRS module and GPS module. The working frequency of GPS is higher than 960MHz, according to 15.101 b, the test needn't do. GPRS module have passed FCC test, the FCC ID is N7NMC8775. The test was performed with the Bluetooth, Wi-Fi, scanning and connect to PC mode.
Model Number	:	Mobile Ident™ II
Power Supply	:	3.7V DC (Li-ion battery 1×)
Applicant	:	COGENT SYSTEMS, INC.
Address	:	Fiyta Hi-tech Building, Gaoxinnanyi Avenue, Southern District of Hi-tech Park, Nanshan District, Shenzhen, China
Manufacturer	:	COGENT SYSTEMS, INC.
Address	:	Fiyta Hi-tech Building, Gaoxinnanyi Avenue, Southern District of Hi-tech Park, Nanshan District, Shenzhen, China
PC System	:	Manufacturer: DELL M/N: DCNE Serial No.: 6CQSC2X
Printer	:	Manufacturer: Canon Model No.: BJC-1000SP
Bluetooth		
Frequency Band	:	2402-2480MHz, 79 channels
Channel Spacing	:	1MHz
Antenna Gain	:	0.85dBi
Wi-Fi		
Frequency Band	:	2412-2462MHz, 11 channels
Channel Spacing	:	5MHz
Antenna Gain	:	0.85dBi
Date of sample received	:	October 30, 2008
Date of Test	:	November 1-15, 2008

1.2. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee
for Laboratories
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

1.3. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	03.29.2009
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	03.29.2009
Spectrum Analyzer	Agilent	E7405A	MY45115511	03.29.2009
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	03.31.2009
Loop Antenna	Schwarzbeck	FMZB1516	1516131	03.28.2009
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	03.29.2009
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	12.20.2008
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	10.09.2009
LISN	Rohde&Schwarz	ESH3-Z5	100305	03.29.2009
LISN	Schwarzbeck	NSLK8126	8126431	03.29.2009

3. OPERATION OF EUT DURING TESTING

3.1. Operating Mode

The mode is used: Scanning

Connect to PC (run test data to download data)

Bluetooth Transmitting at 2402MHz

Bluetooth Transmitting at 2441MHz

Bluetooth Transmitting at 2480MHz

Wi-Fi Transmitting at 2412MHz

Wi-Fi Transmitting at 2437MHz

Wi-Fi Transmitting at 2462MHz

3.2. Configuration and peripherals

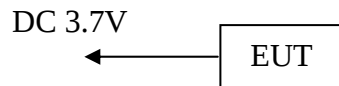


Figure 1 Setup1

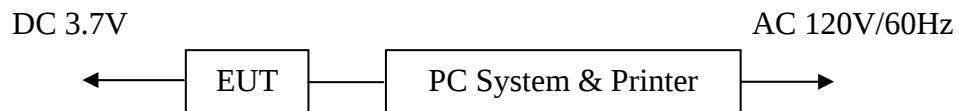


Figure 2 Setup 2

(EUT: Cogent Multifunction Fingerprint Scanner)

4. TEST PROCEDURES AND RESULTS

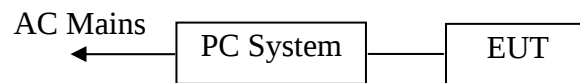
FCC Rules	Description of Test	Result
Section 15.107	Conducted Emission Test	Compliant
Section 15.109	Radiated Emission Test	Compliant
Section 15.247(a)(1)	20dB Bandwidth Test	Compliant
Section 15.247(a)(2)	6dB Bandwidth Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(a)(1)	Carrier Frequency Separation Test	Compliant
Section 15.247(a)(1)(iii)	Number Of Hopping Frequency Test	Compliant
Section 15.247(a)(1)(iii)	Dwell Time Test	Compliant
Section 15.247(b)(1) Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(d)	Radiated Emission Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. CONDUCTED EMISSION FOR FCC PART 15 SECTION

15.107(A)

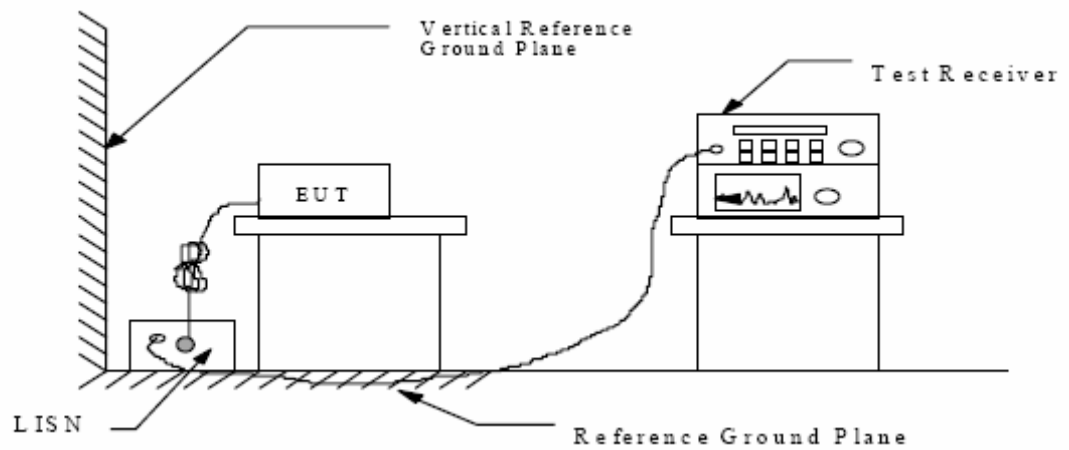
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators



(EUT: Cogent Multifunction Fingerprint Scanner)

5.1.2. Shielding Room Test Setup Diagram



(EUT: Cogent Multifunction Fingerprint Scanner)

5.2.The Emission Limit

5.2.1.Conducted Emission Measurement Limits According to Section 15.107(a)

Frequency (MHz)	Limit dB(μ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

* Decreases with the logarithm of the frequency.

5.3.Configuration of EUT on Measurement

The following equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1.Cogent Multifunction Fingerprint Scanner (EUT)

Model Number : Mobile Ident™ II
 Serial Number : N/A
 Manufacturer : COGENT SYSTEMS, INC.

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3.Let the EUT work in test mode (Connect to PC) measure it.

5.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

5.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Date of Test:	November 10, 2008	Temperature:	25°C
EUT:	Cogent Multifunction Fingerprint Scanner	Humidity:	52%
Model No.:	Mobile Ident™ II	Power Supply:	DC 5V power by PC USB port
Test Mode:	Connect to PC	Test Engineer:	Joe

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.186000	41.10	11.2	64	23.1	QP	N	GND
0.618000	31.00	11.9	56	25.0	QP	N	GND
0.865500	32.00	11.9	56	24.0	QP	N	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.186000	39.90	11.2	54	14.3	AV	N	GND
0.618000	30.40	11.9	46	15.6	AV	N	GND
0.865500	31.10	11.9	46	14.9	AV	N	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	43.50	11.0	66	22.5	QP	L1	GND
0.618000	32.60	11.9	56	23.4	QP	L1	GND
0.865500	32.20	11.9	56	23.8	QP	L1	GND
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.186000	43.00	11.2	54	11.2	AV	L1	GND
0.370500	34.50	11.8	49	14.0	AV	L1	GND
0.618000	32.40	11.9	46	13.6	AV	L1	GND

The spectral diagrams are attached as below.

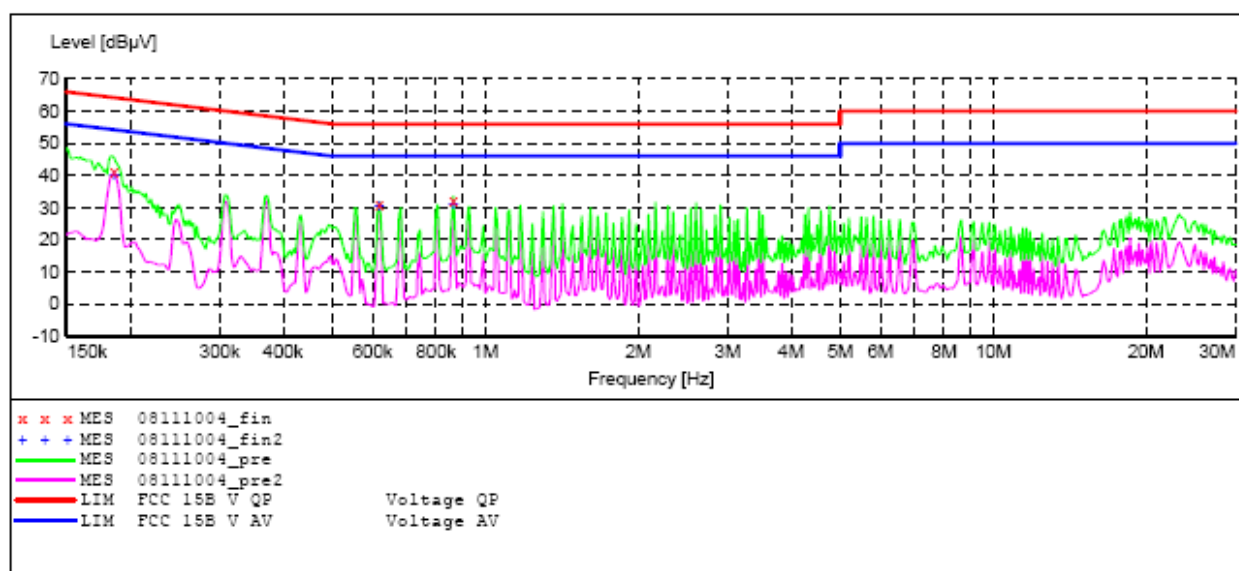
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC Part15B

EUT: Cogent Multifunction Fingerprint Scanner M/N:Mobile Ident II
 Manufacturer: COGENT
 Operating Condition: Connect to PC
 Test Site: 1#Shielding Room
 Operator: Joe
 Test Specification: Va 120V/60Hz
 Comment: Sample No.:083992 Report No.:ATE20082130
 Start of Test: 11/10/2008 / 10:16:37

SCAN TABLE: "V 150K-30MHz fin"

Short Description: Conducted emission
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "08111004_fin"

11/10/2008 10:20

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.186000	41.10	11.2	64	23.1	QP	N	GND
0.618000	31.00	11.9	56	25.0	QP	N	GND
0.865500	32.00	11.9	56	24.0	QP	N	GND

MEASUREMENT RESULT: "08111004_fin2"

11/10/2008 10:20

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.186000	39.90	11.2	54	14.3	AV	N	GND
0.618000	30.40	11.9	46	15.6	AV	N	GND
0.865500	31.10	11.9	46	14.9	AV	N	GND

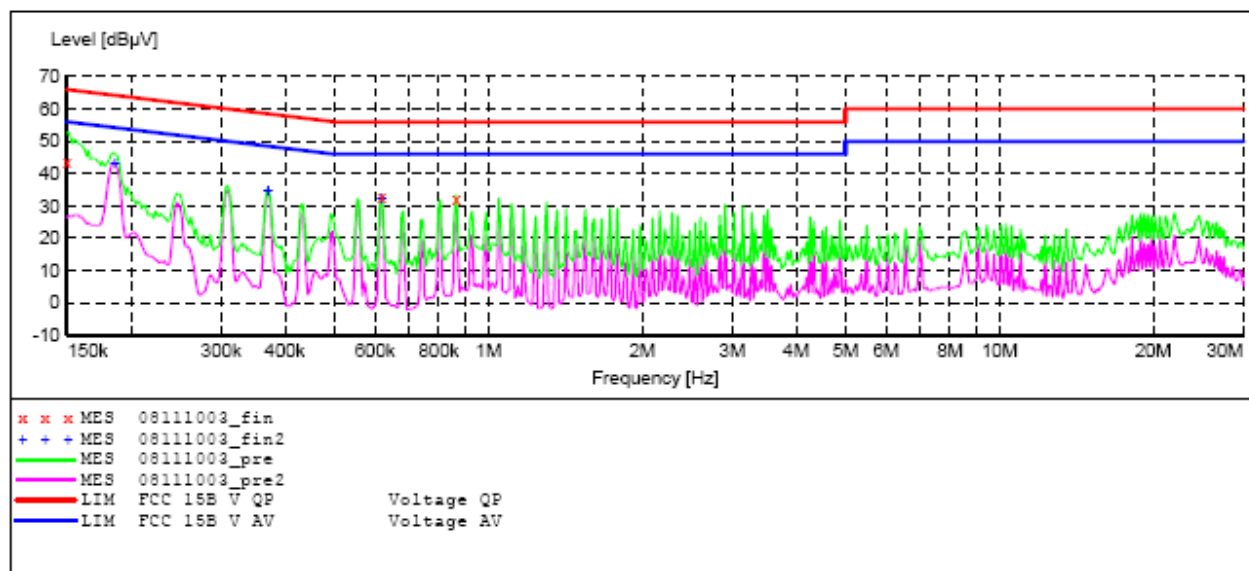
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC Part15B

EUT: Cogent Multifunction Fingerprint Scanner M/N:Mobile Ident II
 Manufacturer: COGENT
 Operating Condition: Connect to PC
 Test Site: 1#Shielding Room
 Operator: Joe
 Test Specification: Vb 120V/60Hz
 Comment: Sample No.:083992 Report No.:ATE20082130
 Start of Test: 11/10/2008 / 10:11:10

SCAN TABLE: "V 150K-30MHz fin"

Short Description: Conducted emission
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.8 % QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "08111003_fin"

11/10/2008 10:14

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.150000	43.50	11.0	66	22.5	QP	L1	GND
0.618000	32.60	11.9	56	23.4	QP	L1	GND
0.865500	32.20	11.9	56	23.8	QP	L1	GND

MEASUREMENT RESULT: "08111003_fin2"

11/10/2008 10:14

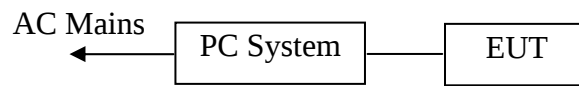
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.186000	43.00	11.2	54	11.2	AV	L1	GND
0.370500	34.50	11.8	49	14.0	AV	L1	GND
0.618000	32.40	11.9	46	13.6	AV	L1	GND

6. RADIATED EMISSION FOR FCC PART 15 SECTION 15.109

(A)

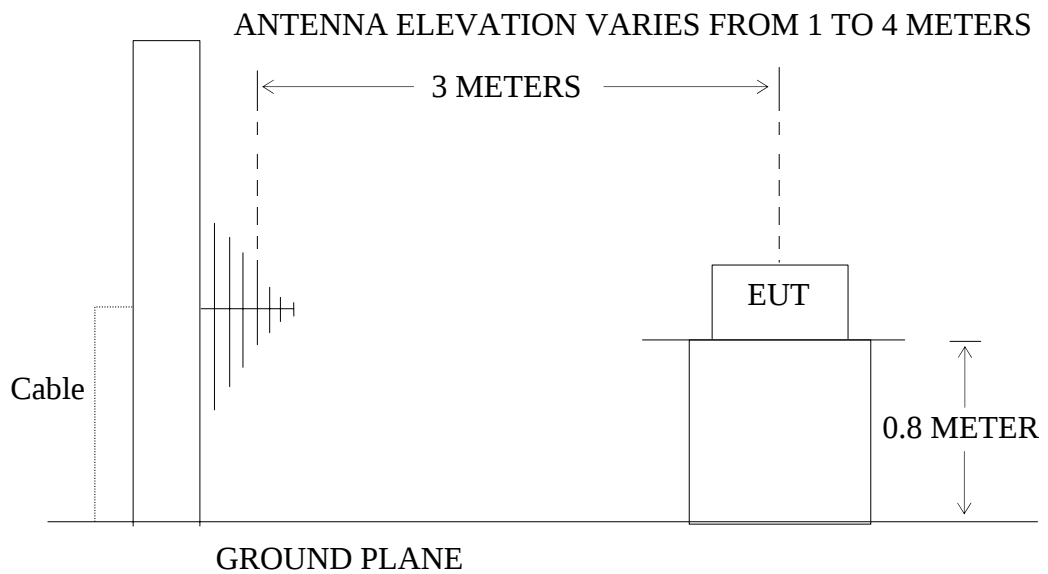
6.1. Block Diagram of Test Setup

6.1.1. Block diagram of connection between the EUT and simulators



(EUT: Cogent Multifunction Fingerprint Scanner)

6.1.2. Anechoic Chamber Test Setup Diagram



(EUT: Cogent Multifunction Fingerprint Scanner)

6.2.The Emission Limit For Section 15.109 (a)

6.2.1.Radiation Emission Measurement Limits According to Section 15.109 (a).

Frequency (MHz)	Limit	
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dBμV/m)
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

6.3.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.3.1.Cogent Multifunction Fingerprint Scanner (EUT)

Model Number : Mobile Ident™ II
 Serial Number : N/A
 Manufacturer : COGENT SYSTEMS, INC.

6.4.Operating Condition of EUT

6.4.1.Setup the EUT and simulator as shown as Section 6.1.

6.4.2.Turn on the power of all equipment.

6.4.3. Let the EUT work in test modes (Connect to PC, Scanning) measure it.

6.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz.

The frequency range from 30MHz to 1000MHz is checked.

The final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

6.6.The Emission Measurement Result

PASS.

Date of Test:	November 7, 2008	Temperature:	25°C
EUT:	Cogent Multifunction Fingerprint Scanner	Humidity:	52%
Model No.:	Mobile Ident™ II	Power Supply:	DC 5V power by PC USB port
Test Mode:	Connect to PC	Test Engineer:	Joe
			PC power: AC120V/60Hz

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
165.8911	22.27	14.67	36.94	43.50	-6.56	Vertical
190.2075	21.85	14.87	36.72	43.50	-6.78	
215.8196	21.07	15.56	36.63	43.50	-6.87	
165.8910	22.33	14.67	37.00	43.50	-6.50	Horizontal
190.2074	21.82	14.87	36.69	43.50	-6.81	
215.8194	20.21	15.56	35.77	43.50	-7.73	

The spectral diagrams are attached as below display the measurement of peak values.

Note:

1. The emission emitted by the EUT is too low to be measured except the emission listed above.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

Date of Test:	<u>November 7, 2008</u>	Temperature:	<u>25°C</u>
EUT:	<u>Cogent Multifunction Fingerprint Scanner</u>	Humidity:	<u>52%</u>
Model No.:	<u>Mobile Ident™ II</u>	Power Supply:	<u>DC 3.7V</u>
Test Mode:	<u>Scanning</u>	Test Engineer:	<u>Joe</u>

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
762.6201	10.93	27.80	38.73	46.00	-7.27	Vertical
260.9433	17.26	18.62	35.88	46.00	-10.12	Horizontal
431.7959	15.80	22.96	38.76	46.00	-7.24	
540.9207	13.39	25.01	38.40	46.00	-7.60	
762.6200	13.02	27.80	40.82	46.00	-5.18	

The spectral diagrams are attached as below display the measurement of peak values.

Note:

1. The emission emitted by the EUT is too low to be measured except the emission listed above.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain


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 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: COGENT #103

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Connect to PC

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 5V

Date: 2008/11/07

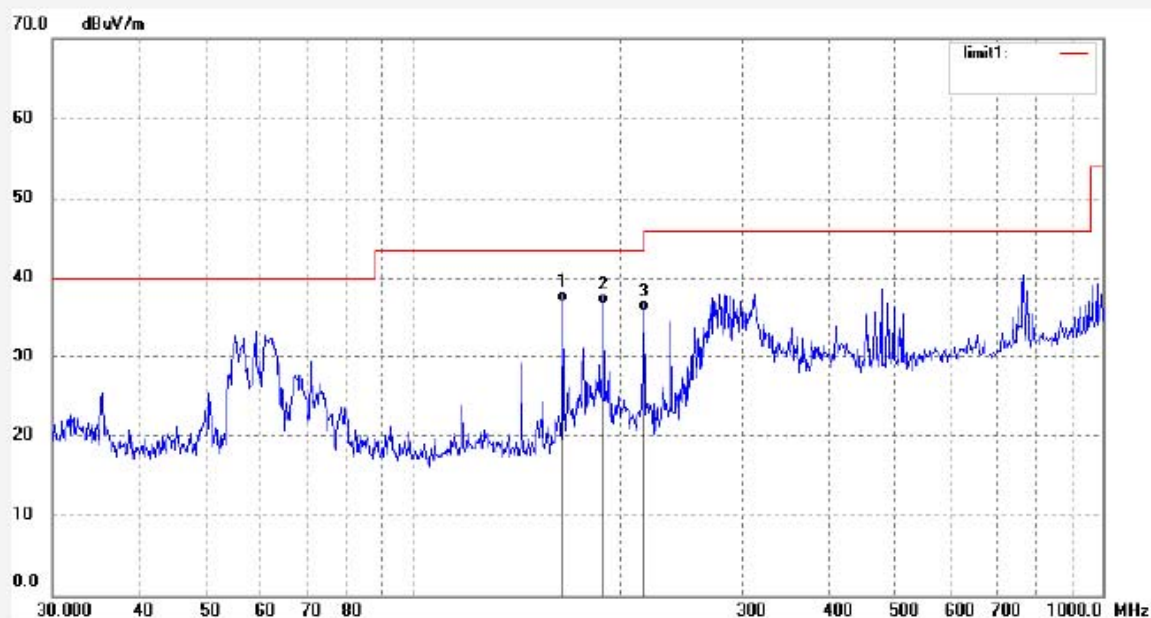
Time: 17:55:07

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	165.8910	22.33	14.67	37.00	43.50	-6.50	QP	
2	190.2074	21.82	14.87	36.69	43.50	-6.81	QP	
3	215.8194	20.21	15.56	35.77	43.50	-7.73	QP	


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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: COGENT #104

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Connect to PC

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 5V

Date: 2008/11/07

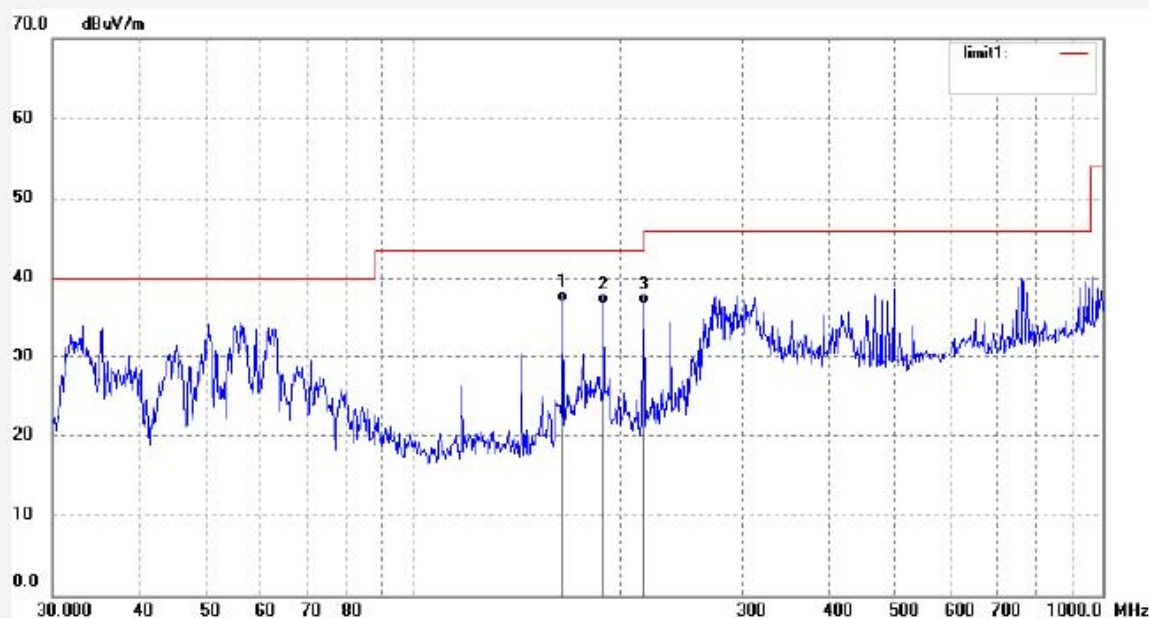
Time: 17:58:15

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	165.8911	22.27	14.67	36.94	43.50	-6.56	QP	
2	190.2075	21.85	14.87	36.72	43.50	-6.78	QP	
3	215.8196	21.07	15.56	36.63	43.50	-6.87	QP	



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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: COGENT #100

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Scanning

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 2008/11/07

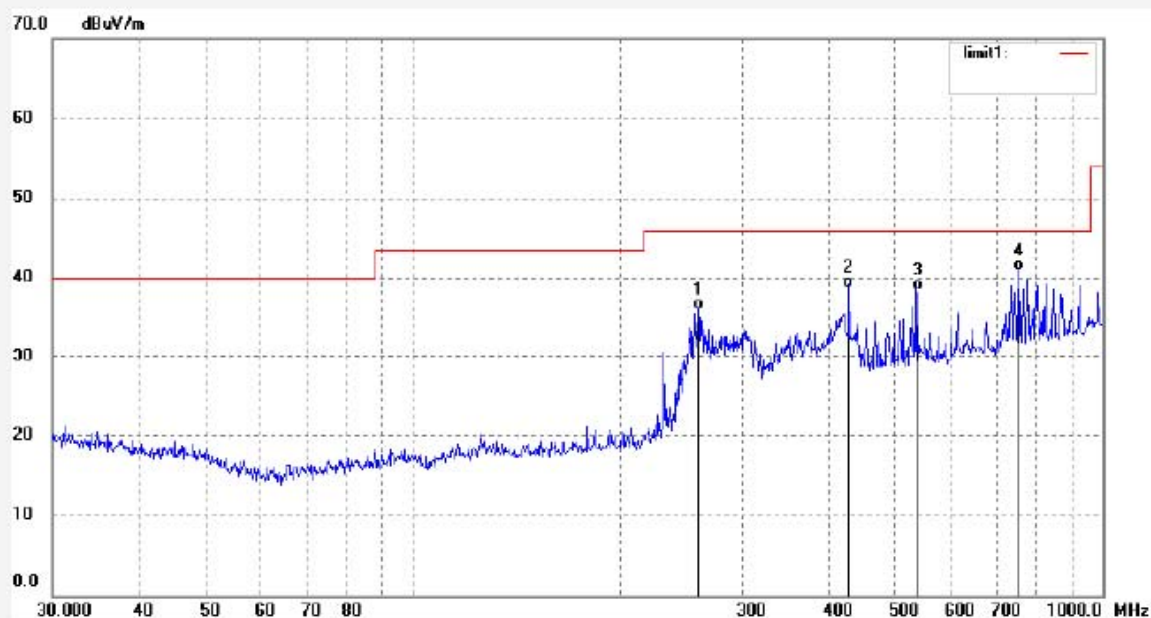
Time: 17:27:51

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	260.9433	17.26	18.62	35.88	46.00	-10.12	QP	
2	431.7959	15.80	22.96	38.76	46.00	-7.24	QP	
3	540.9207	13.39	25.01	38.40	46.00	-7.60	QP	
4	762.6200	13.02	27.80	40.82	46.00	-5.18	QP	


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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: COGENT #99

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Scanning

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 2008/11/07

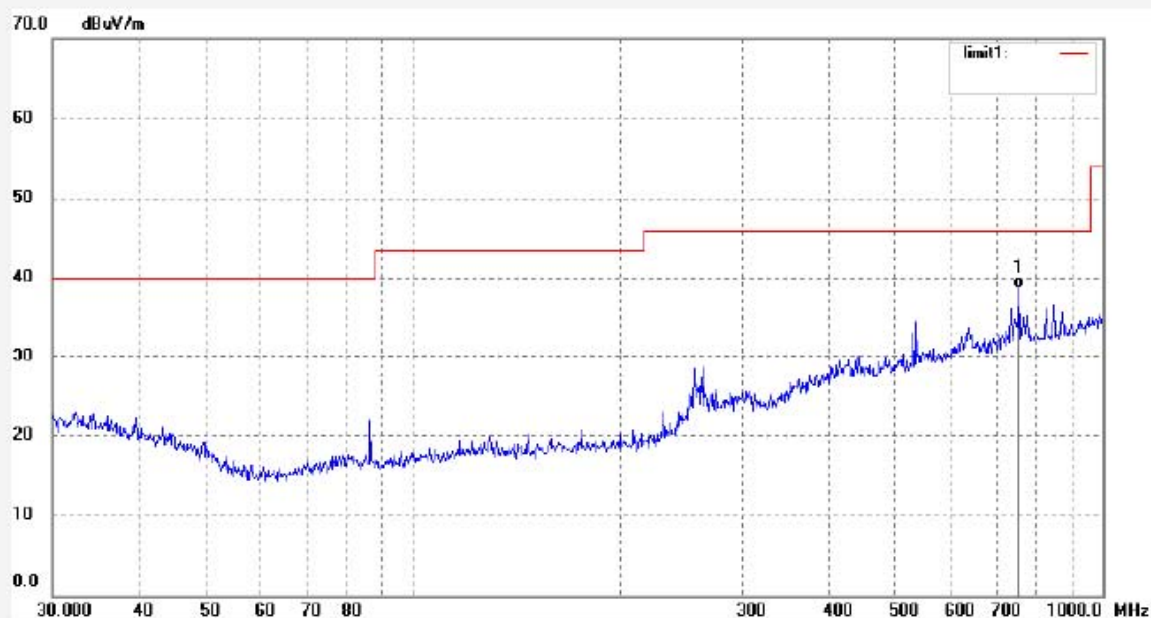
Time: 17:25:09

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

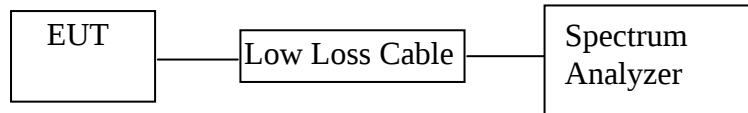
Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	762.6201	10.93	27.80	38.73	46.00	-7.27	QP	

7. 20DB BANDWIDTH TEST (BLUETOOTH)

7.1. Block Diagram of Test Setup



(EUT: Cogent Multifunction Fingerprint Scanner)

7.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

7.3. EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.3.1. Cogent Multifunction Fingerprint Scanner (EUT)

Model Number	:	Mobile Ident™ II
Serial Number	:	N/A
Manufacturer	:	COGENT SYSTEMS, INC.

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX(Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 2480MHz TX frequency to transmit.

7.5. Test Procedure

7.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2. Set RBW of spectrum analyzer to 30kHz and VBW to 100kHz.

7.5.3. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

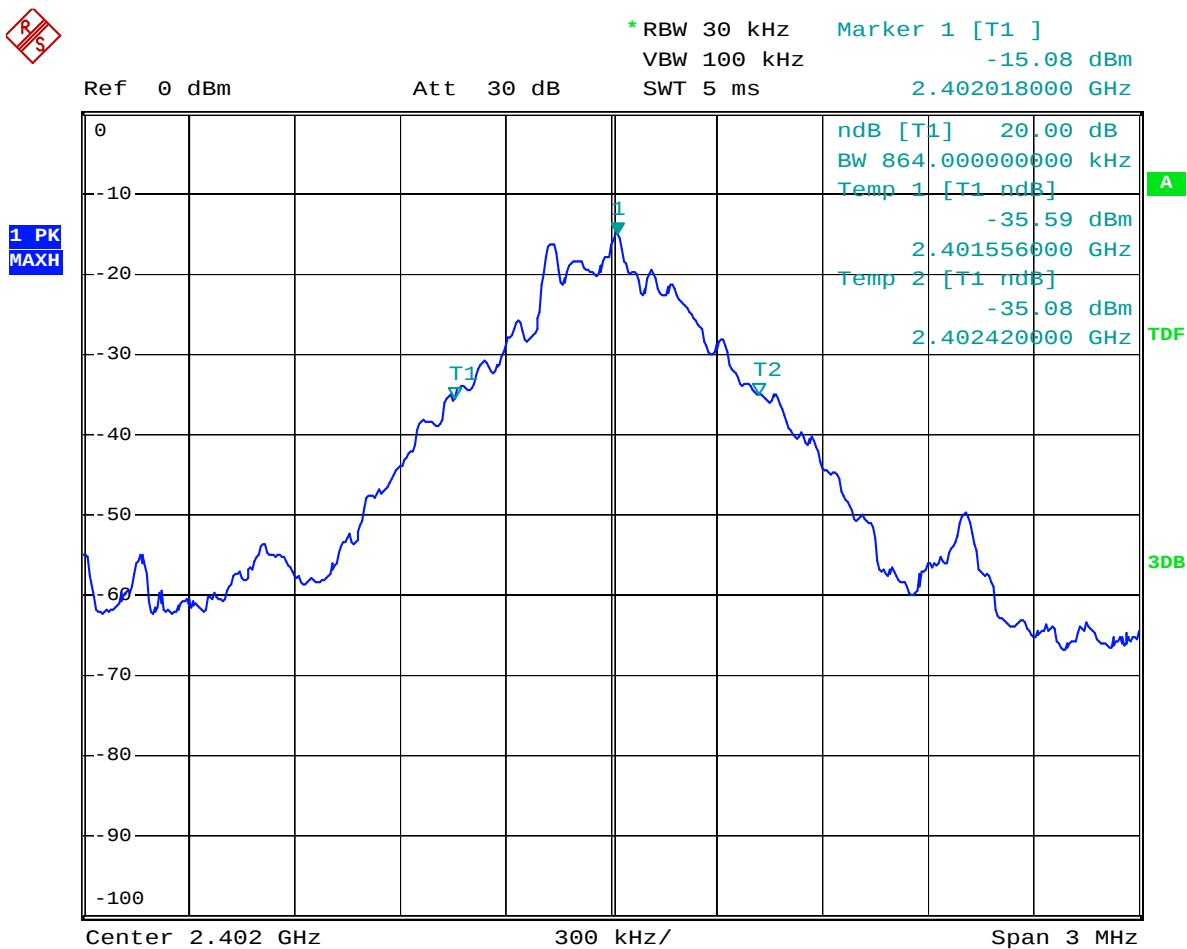
7.6. Test Result

PASS.

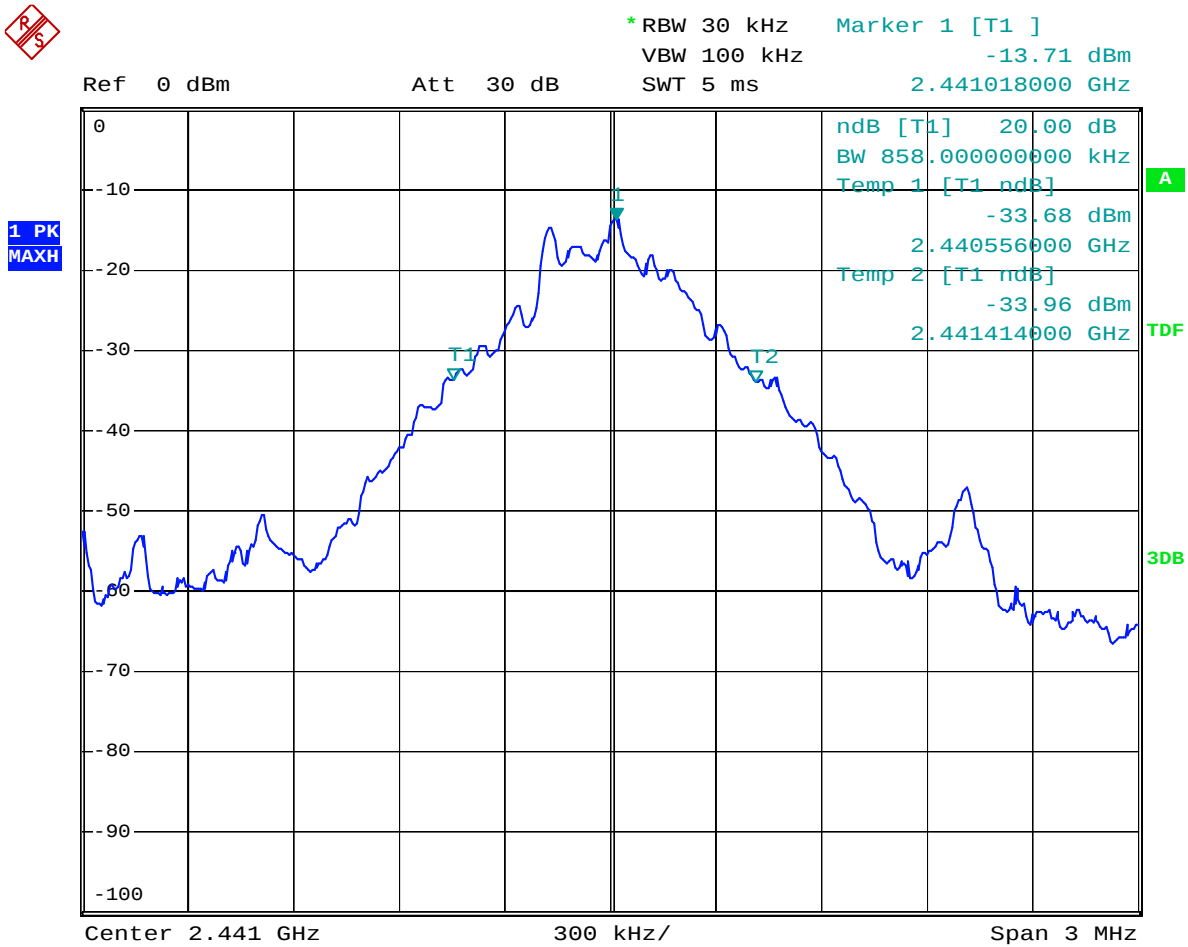
Date of Test:	<u>November 14, 2008</u>	Temperature:	<u>25°C</u>
EUT:	<u>Cogent Multifunction Fingerprint Scanner</u>	Humidity:	<u>52%</u>
Model No.:	<u>Mobile Ident™ II</u>	Power Supply:	<u>DC 3.7V</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Joe</u>

Channel	Frequency (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
Low	2402	0.864	---
Middle	2441	0.858	---
High	2480	0.870	---

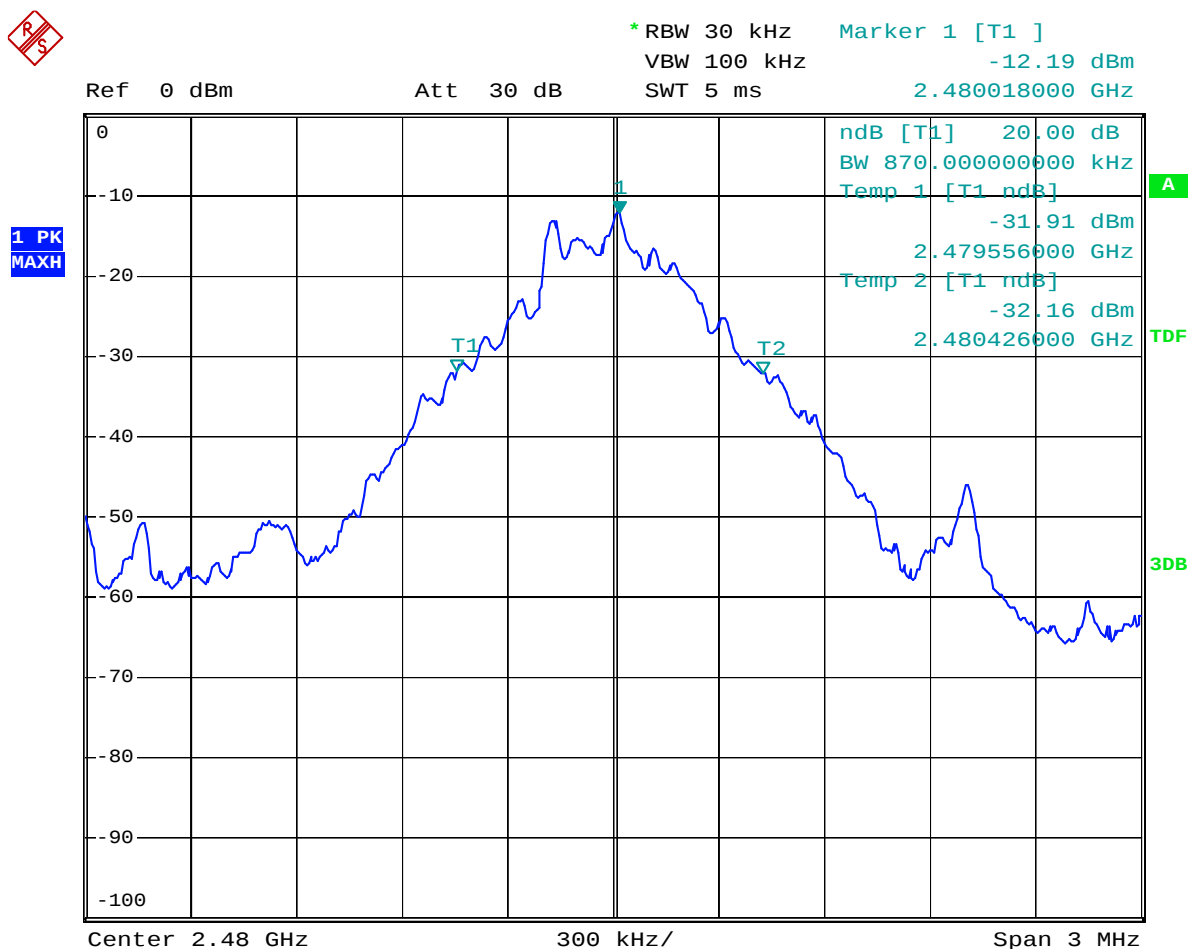
The spectrum analyzer plots are attached as below.



Date: 14.NOV.2008 09:38:06



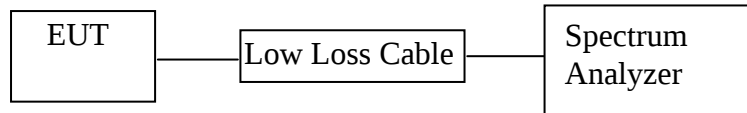
Date: 14.NOV.2008 09:35:09



Date: 14.NOV.2008 09:31:41

8. CARRIER FREQUENCY SEPARATION TEST (BLUETOOTH)

8.1. Block Diagram of Test Setup



(EUT: Cogent Multifunction Fingerprint Scanner)

8.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudorandomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

8.3. EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.3.1. Cogent Multifunction Fingerprint Scanner (EUT)

Model Number : Mobile Ident™ II
 Serial Number : N/A
 Manufacturer : COGENT SYSTEMS, INC.

8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 8.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 2480MHz TX frequency to transmit.

8.5. Test Procedure

8.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

8.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz. Adjust Span to 3 MHz.

8.5.3. Set the adjacent channel of the EUT maxhold another trace.

8.5.4. Measurement the channel separation

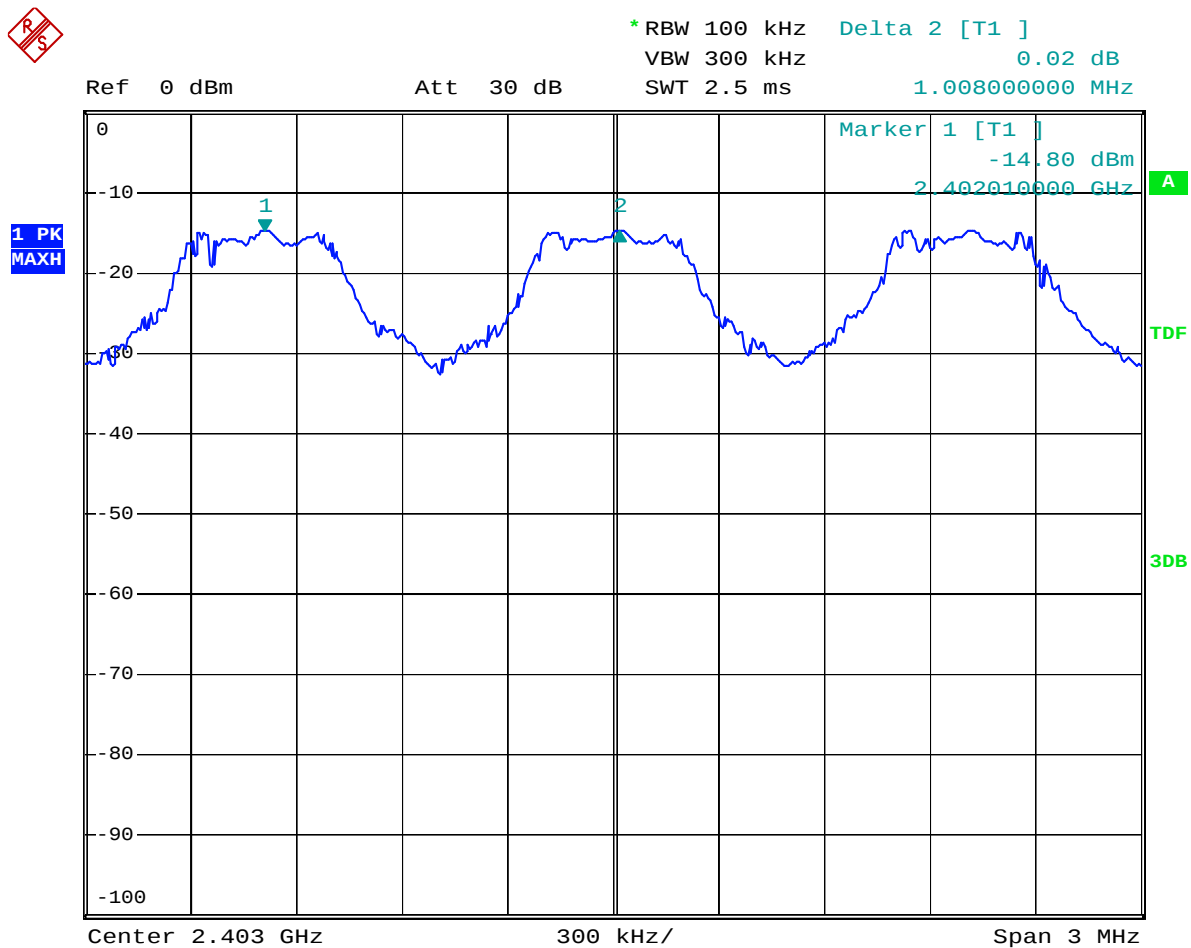
8.6. Test Result

PASS.

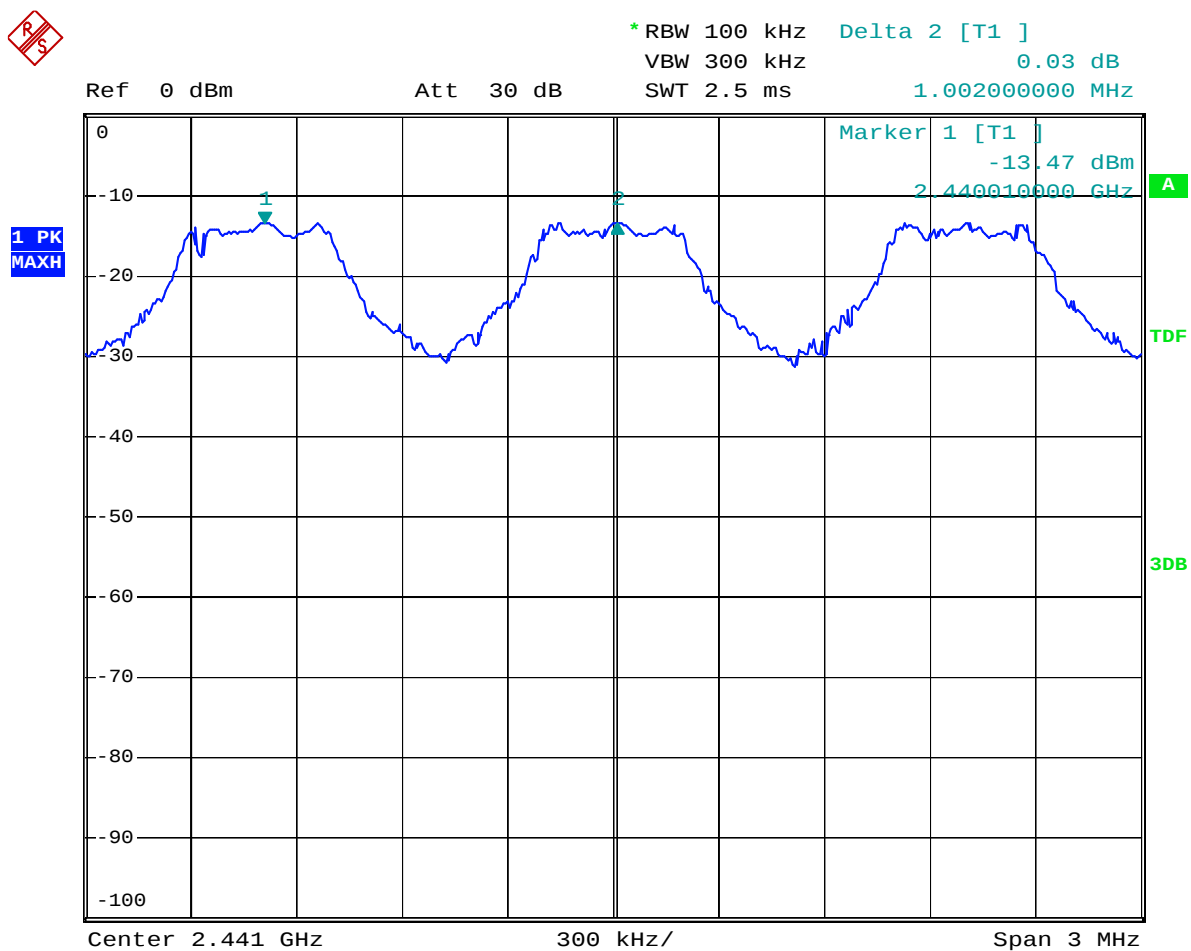
Date of Test:	November 14, 2008	Temperature:	25°C
EUT:	Cogent Multifunction Fingerprint Scanner	Humidity:	52%
Model No.:	Mobile Ident™ II	Power Supply:	DC 3.7V
Test Mode:	Hopping	Test Engineer:	Joe

Channel	Channel Frequency (MHz)	Channel separation (MHz)	Limit
Low	2402	1.008	> the 20dB Bandwidth or 25kHz (whichever is greater)
Middle	2441	1.002	> the 20dB Bandwidth or 25kHz (whichever is greater)
High	2480	1.002	> the 20dB Bandwidth or 25kHz (whichever is greater)

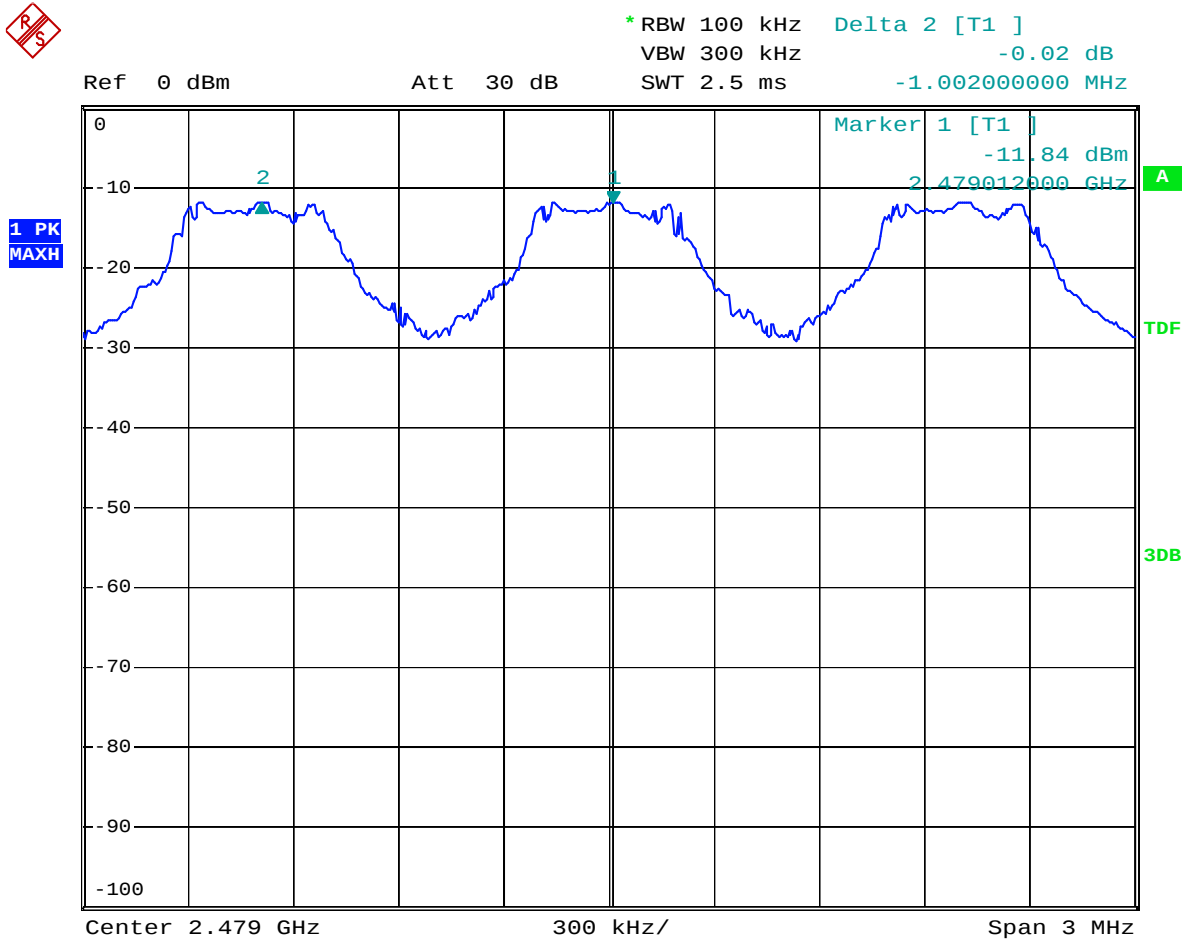
The spectrum analyzer plots are attached as below.



Date: 14.NOV.2008 09:15:36



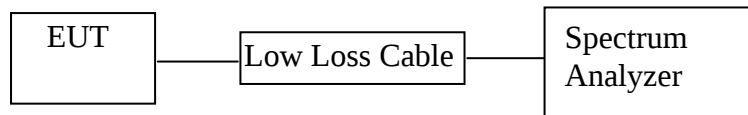
Date: 14.NOV.2008 09:18:16



Date: 14.NOV.2008 09:21:17

9. NUMBER OF HOPPING FREQUENCY TEST (BLUETOOTH)

9.1. Block Diagram of Test Setup



(EUT: Cogent Multifunction Fingerprint Scanner)

9.2. The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

9.3. EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.3.1. Cogent Multifunction Fingerprint Scanner (EUT)

Model Number	:	Mobile Ident™ II
Serial Number	:	N/A
Manufacturer	:	COGENT SYSTEMS, INC.

9.4. Operating Condition of EUT

9.4.1. Setup the EUT and simulator as shown as Section 9.1.

9.4.2. Turn on the power of all equipment.

9.4.3. Let the EUT work in TX (Hopping on) modes measure it.

9.5. Test Procedure

9.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

9.5.2. Set the spectrum analyzer as Span=30MHz, RBW=300kHz, VBW=300kHz.

9.5.3. Max hold, view and count how many channel in the band.

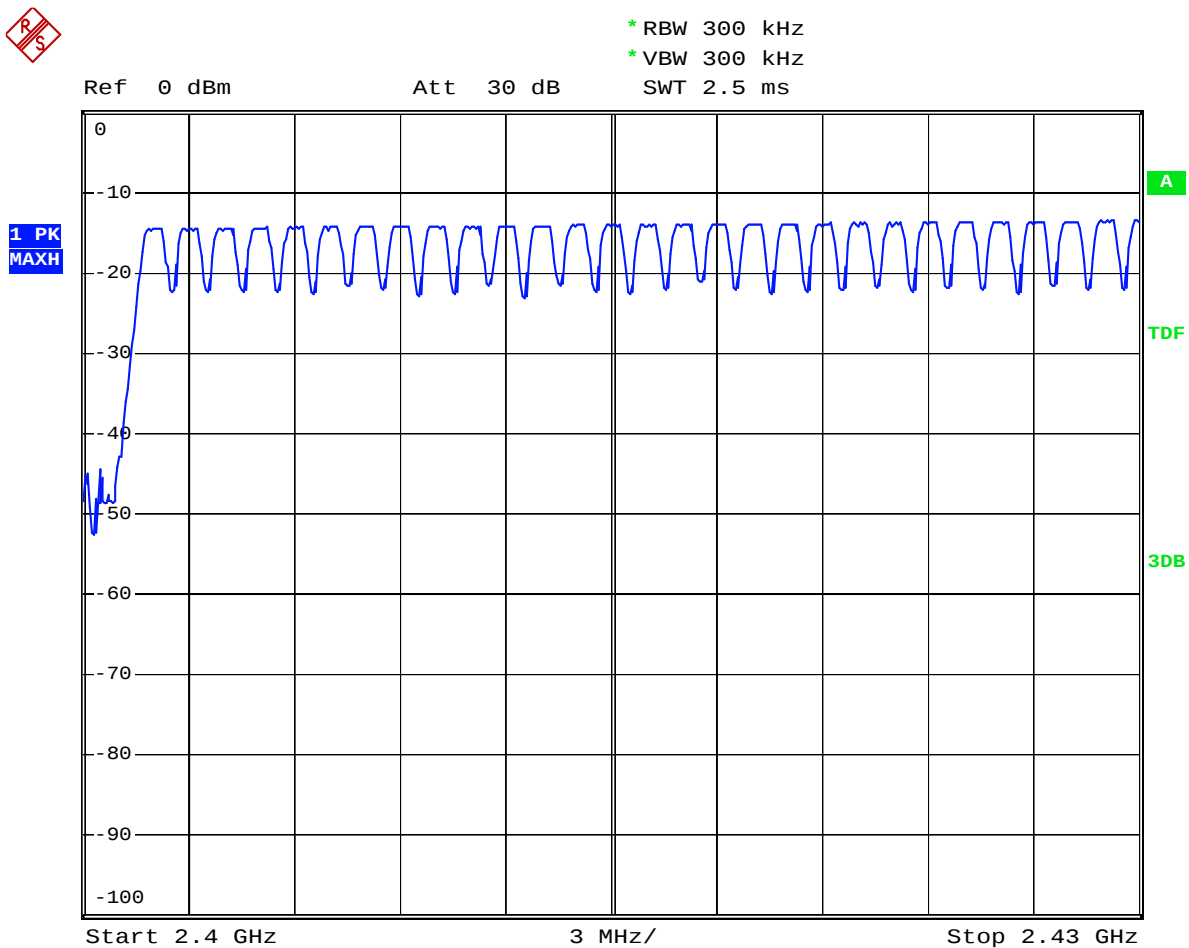
9.6. Test Result

PASS.

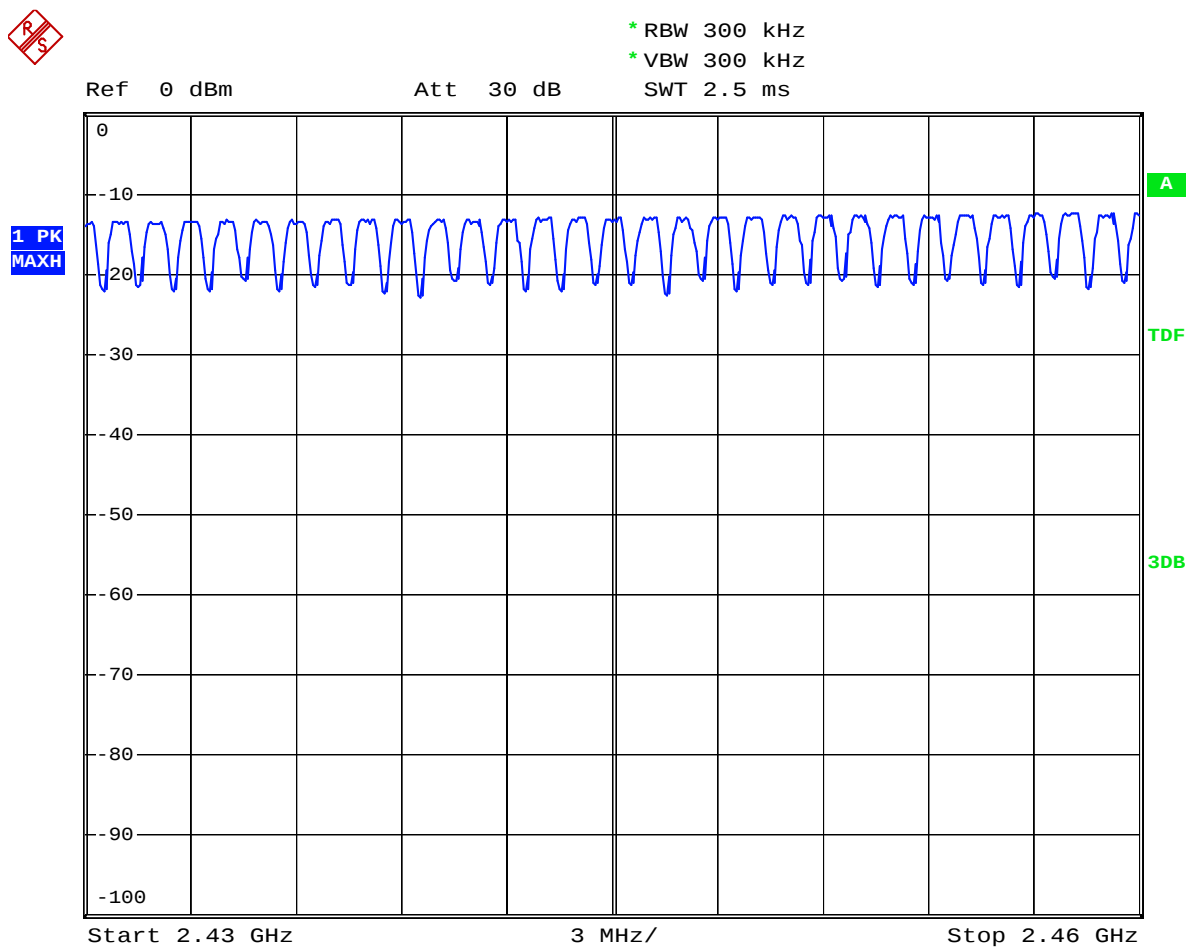
Date of Test:	<u>November 14, 2008</u>	Temperature:	<u>25°C</u>
	<u>Cogent Multifunction</u>		
EUT:	<u>Fingerprint Scanner</u>	Humidity:	<u>52%</u>
Model No.:	<u>Mobile Ident™ II</u>	Power Supply:	<u>DC 3.7V</u>
Test Mode:	<u>Hopping</u>	Test Engineer:	<u>Joe</u>

Total number of hopping channel	Measurement result (CH)	Limit (CH)
	79	>15

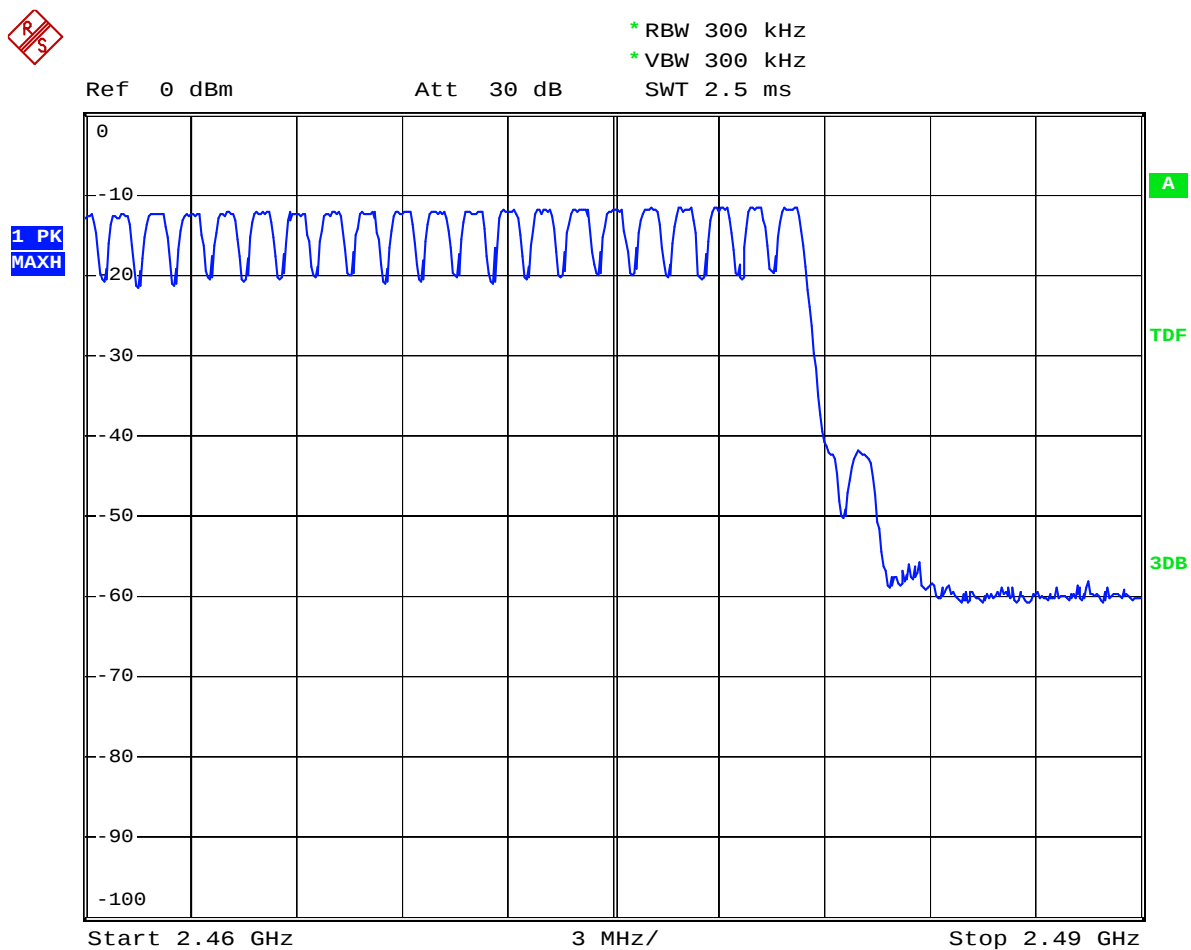
The spectrum analyzer plots are attached as below.



Date: 14.NOV.2008 09:08:04



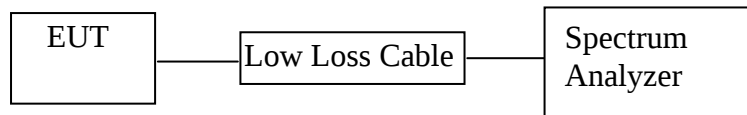
Date: 14.NOV.2008 09:09:33



Date: 14.NOV.2008 09:11:04

10.DWELL TIME TEST (BLUETOOTH)

10.1.Block Diagram of Test Setup



(EUT: Cogent Multifunction Fingerprint Scanner)

10.2.The Requirement For Section 15.247(a)(1)(iii)

Section 15.247(a)(1)(iii): Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

10.3.EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.3.1.Cogent Multifunction Fingerprint Scanner (EUT)

Model Number	:	Mobile Ident™ II
Serial Number	:	N/A
Manufacturer	:	COGENT SYSTEMS, INC.

10.4.Operating Condition of EUT

10.4.1.Setup the EUT and simulator as shown as Section 10.1.

10.4.2.Turn on the power of all equipment.

10.4.3.Let the EUT work in TX (Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 2480MHz TX frequency to transmit.

10.5. Test Procedure

10.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

10.5.2. Set center frequency of spectrum analyzer = operating frequency.

10.5.3. Set the spectrum analyzer as RBW=100kHz, VBW=300kHz, Span=0Hz, Adjust Sweep=1s. Get the burst (in 1 sec.).

10.5.4. Set the spectrum analyzer as RBW=1MHz, VBW=3MHz, Span=0Hz, Adjust Sweep=2ms. Get the pulse time.

10.5.5. Repeat above procedures until all frequency measured were complete.

10.6. Test Result

PASS.

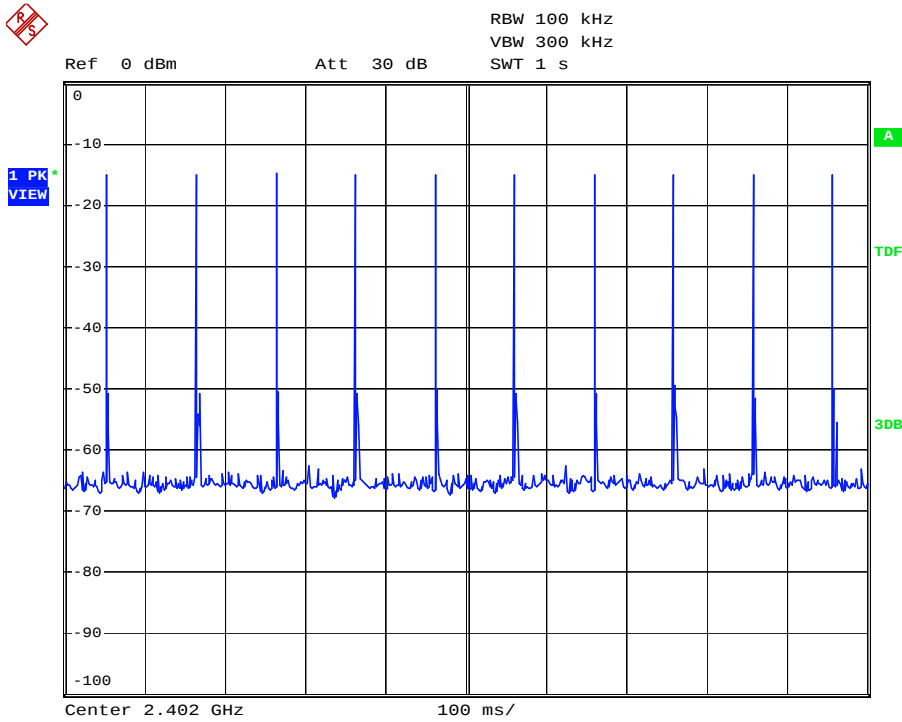
Date of Test:	<u>November 14, 2008</u>	Temperature:	<u>25°C</u>
EUT:	<u>Cogent Multifunction Fingerprint Scanner</u>	Humidity:	<u>52%</u>
Model No.:	<u>Mobile Ident™ II</u>	Power Supply:	<u>DC 3.7V</u>
Test Mode:	<u>Hopping</u>	Test Engineer:	<u>Joe</u>

A period transmit time = $0.4 \times 79 = 31.6$

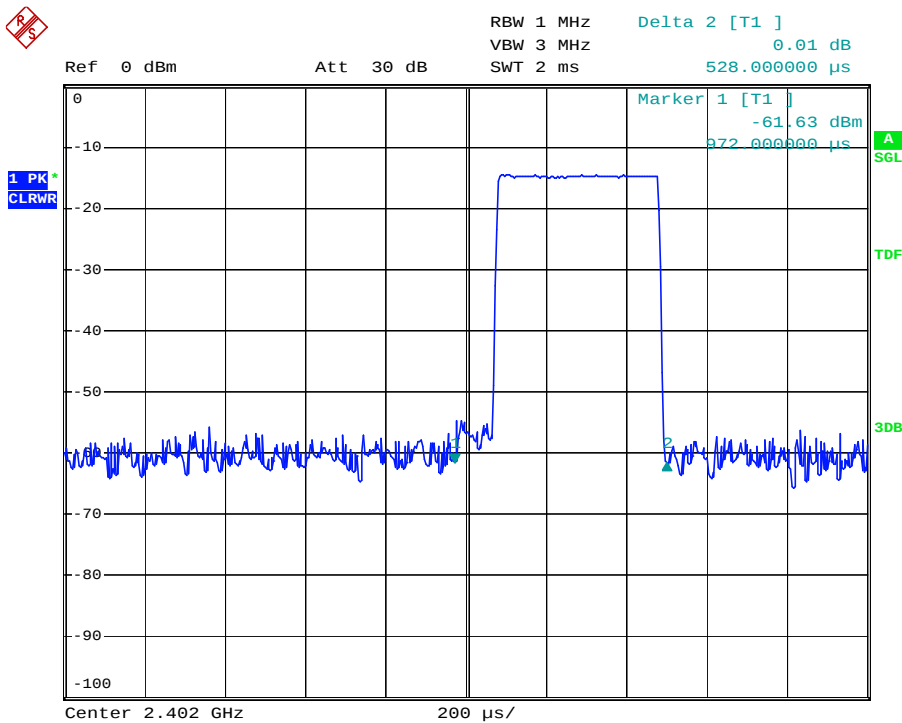
Dwell time = pulse time $\times$ burst (in 1 sec.) $\times 31.6$

Channel	Channel Frequency (MHz)	Pulse Time (ms)	Burst (in 1 sec.)	Dwell Time (ms)	Limit (ms)
Low	2402	0.528	10	166.85	400
Middle	2441	0.524	10	165.58	400
High	2480	0.524	10	165.58	400

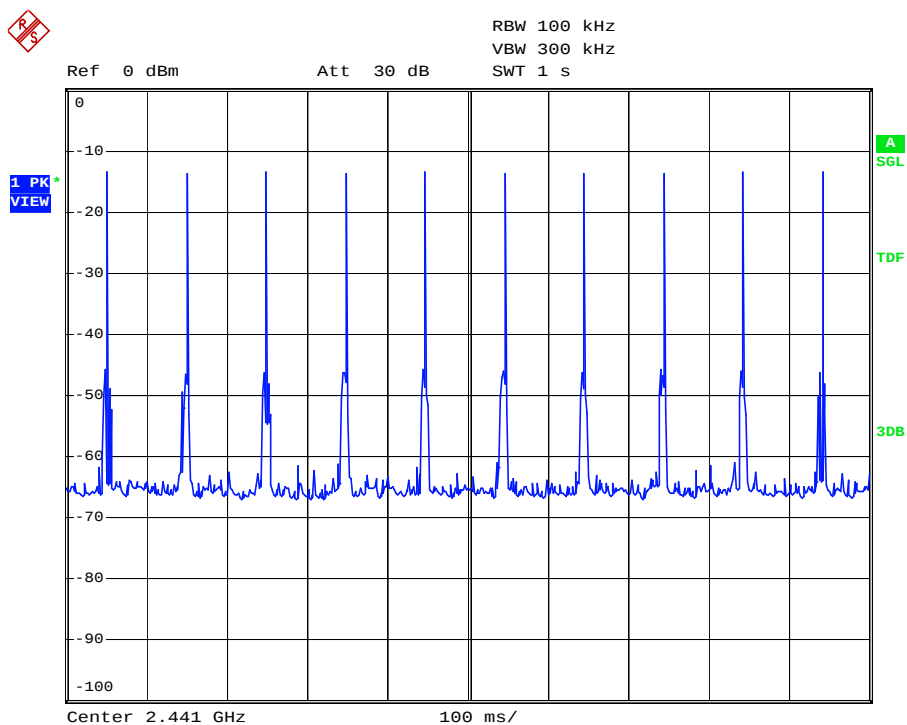
The spectrum analyzer plots are attached as below.



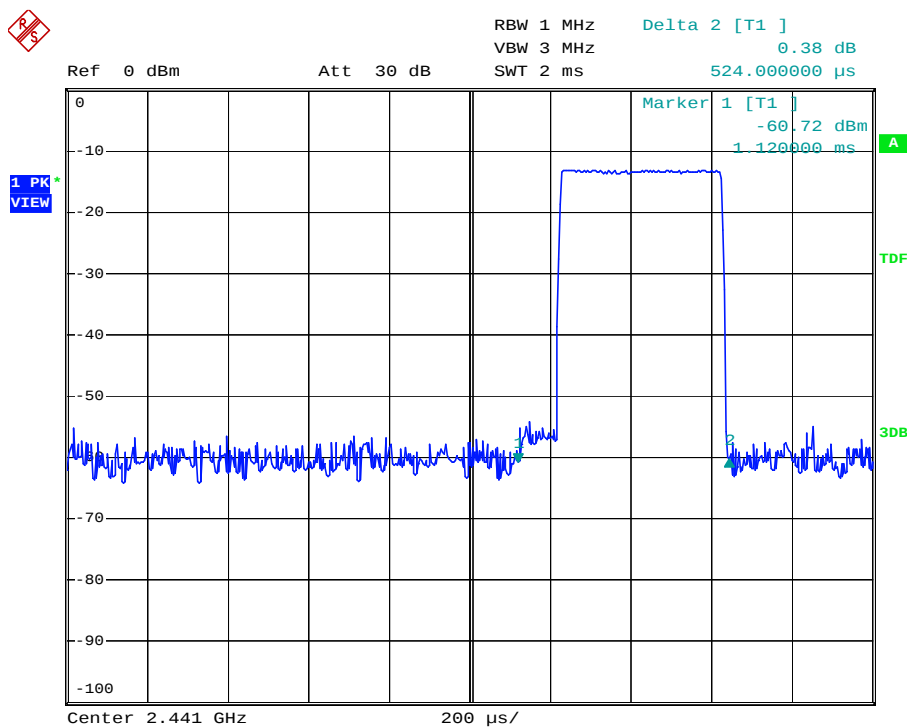
Date: 14.NOV.2008 10:05:29



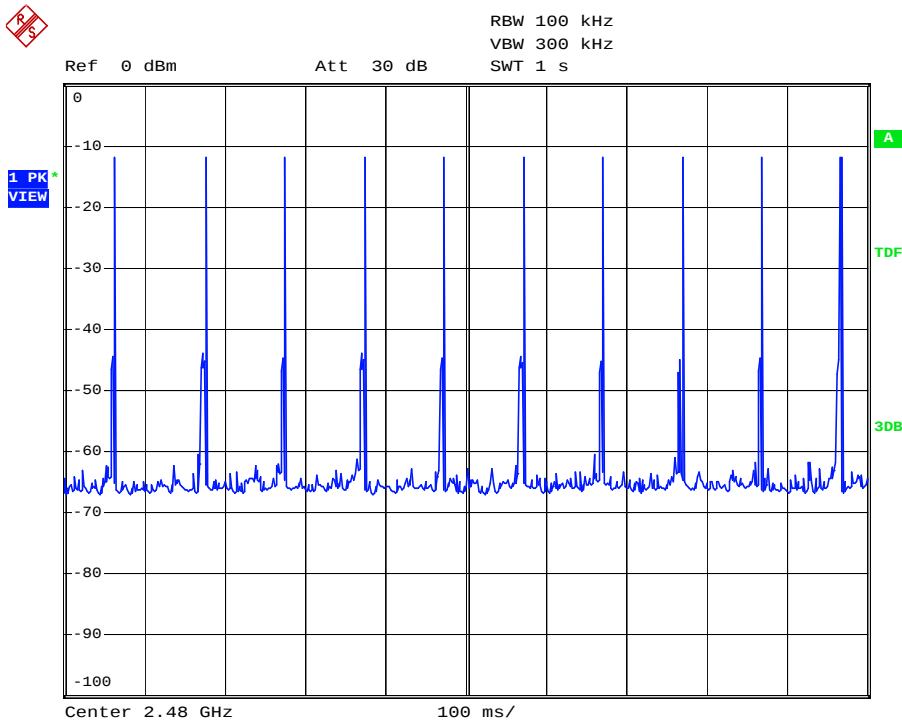
Date: 14.NOV.2008 10:23:15



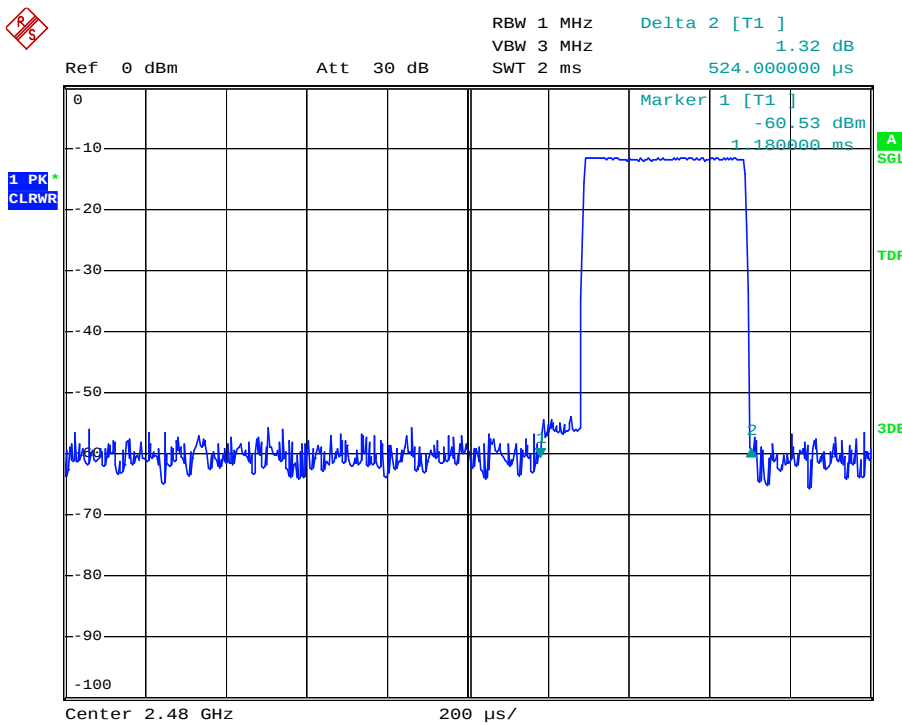
Date: 14.NOV.2008 10:07:01



Date: 14.NOV.2008 10:20:58



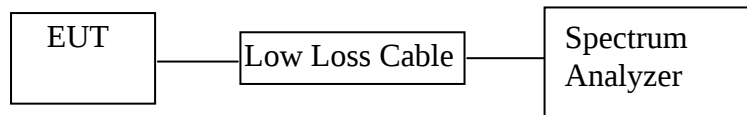
Date: 14.NOV.2008 10:07:53



Date: 14.NOV.2008 10:15:15

11. MAXIMUM PEAK OUTPUT POWER TEST (BLUETOOTH)

11.1. Block Diagram of Test Setup



(EUT: Cogent Multifunction Fingerprint Scanner)

11.2. The Requirement For Section 15.247(b)(1)

Section 15.247(b)(1): For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

11.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

11.3.1. Cogent Multifunction Fingerprint Scanner (EUT)

Model Number	:	Mobile Ident™ II
Serial Number	:	N/A
Manufacturer	:	COGENT SYSTEMS, INC.

11.4. Operating Condition of EUT

11.4.1. Setup the EUT and simulator as shown as Section 11.1.

11.4.2. Turn on the power of all equipment.

11.4.3. Let the EUT work in TX (Hopping off) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2441MHz, 2480MHz TX frequency to transmit.

11.5. Test Procedure

11.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

11.5.2. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.

11.5.3. Measurement the maximum peak output power.

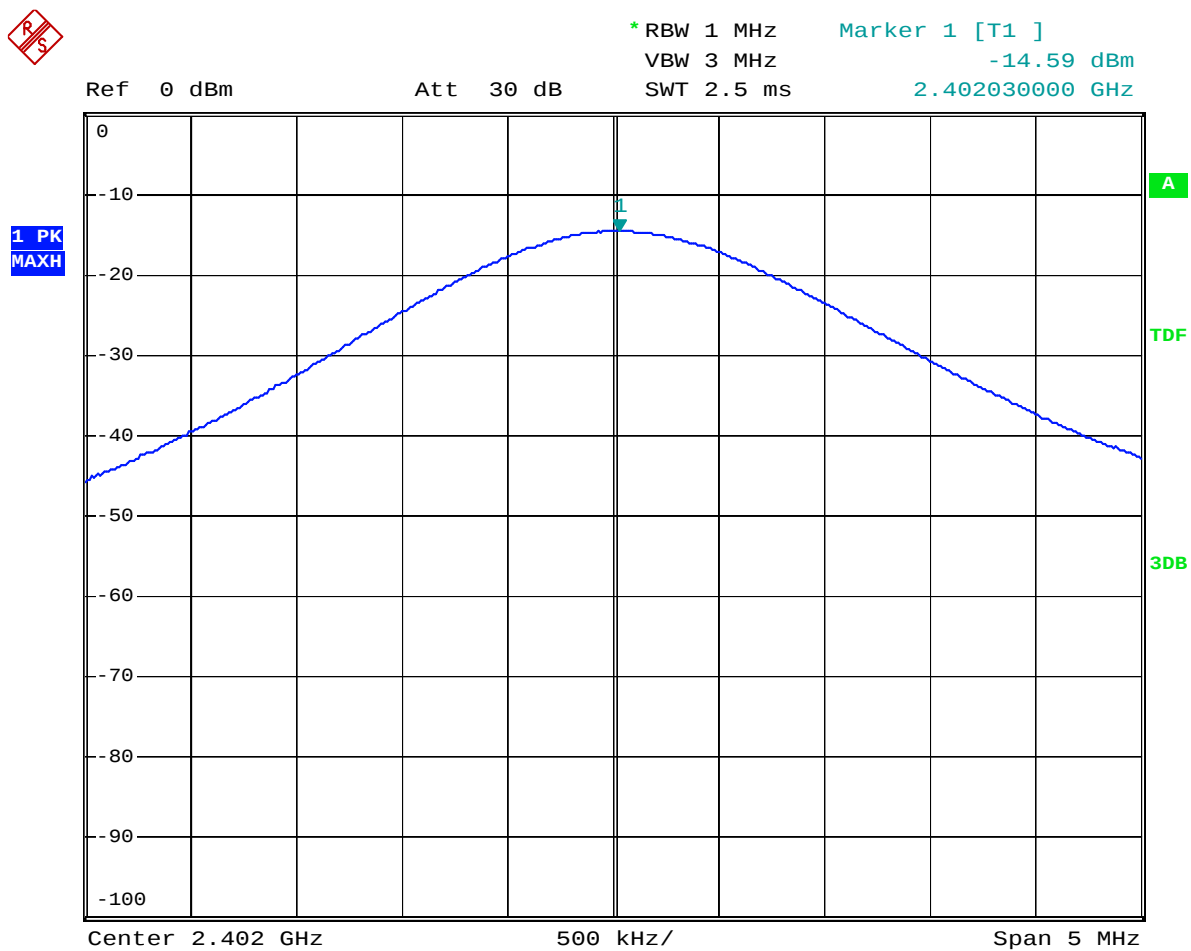
11.6. Test Result

PASS.

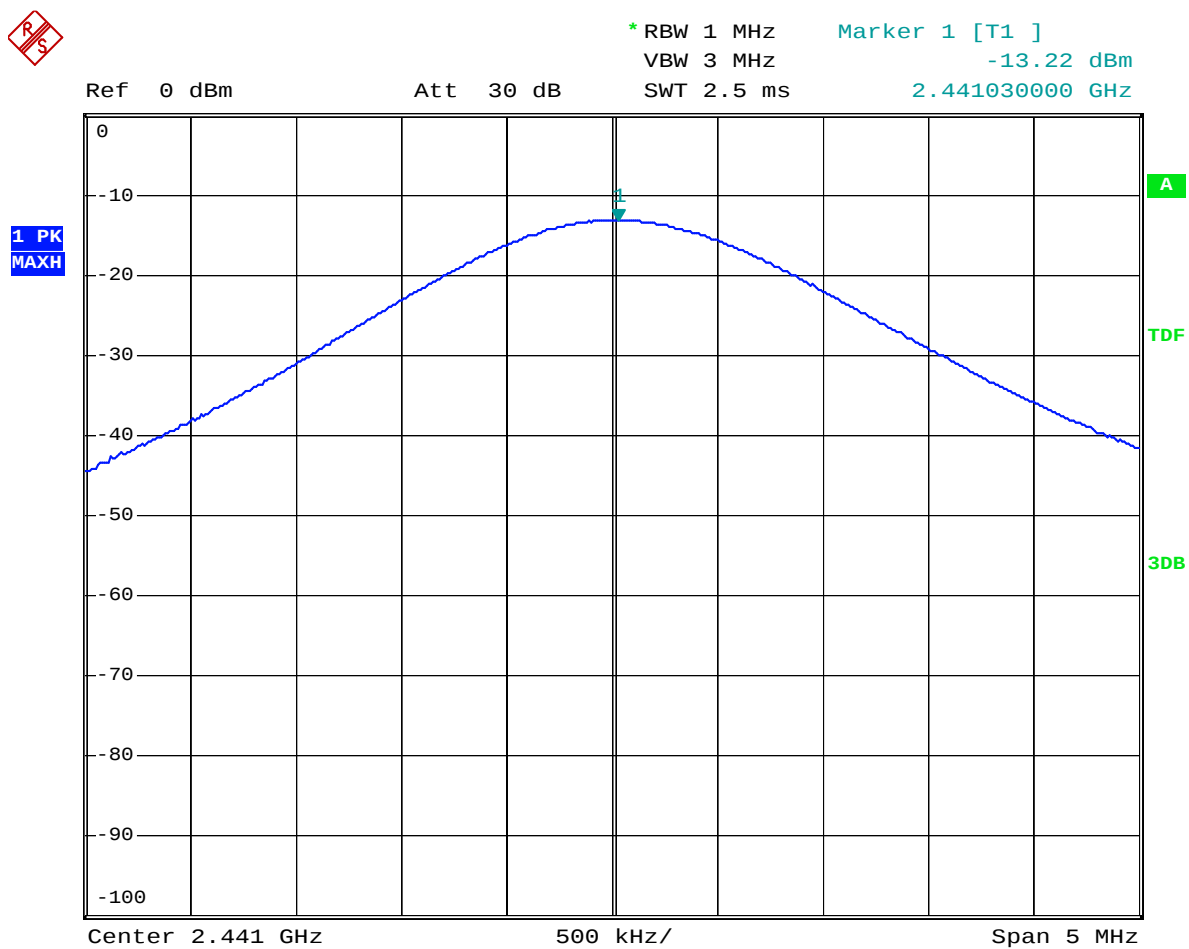
Date of Test:	November 14, 2008	Temperature:	25°C
EUT:	Cogent Multifunction Fingerprint Scanner	Humidity:	52%
Model No.:	Mobile Ident™ II	Power Supply:	DC 3.7V
Test Mode:	TX	Test Engineer:	Joe

Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2402	-14.59	0.035	30 dBm / 1 W
Middle	2441	-13.22	0.048	30 dBm / 1 W
High	2480	-11.59	0.069	30 dBm / 1 W

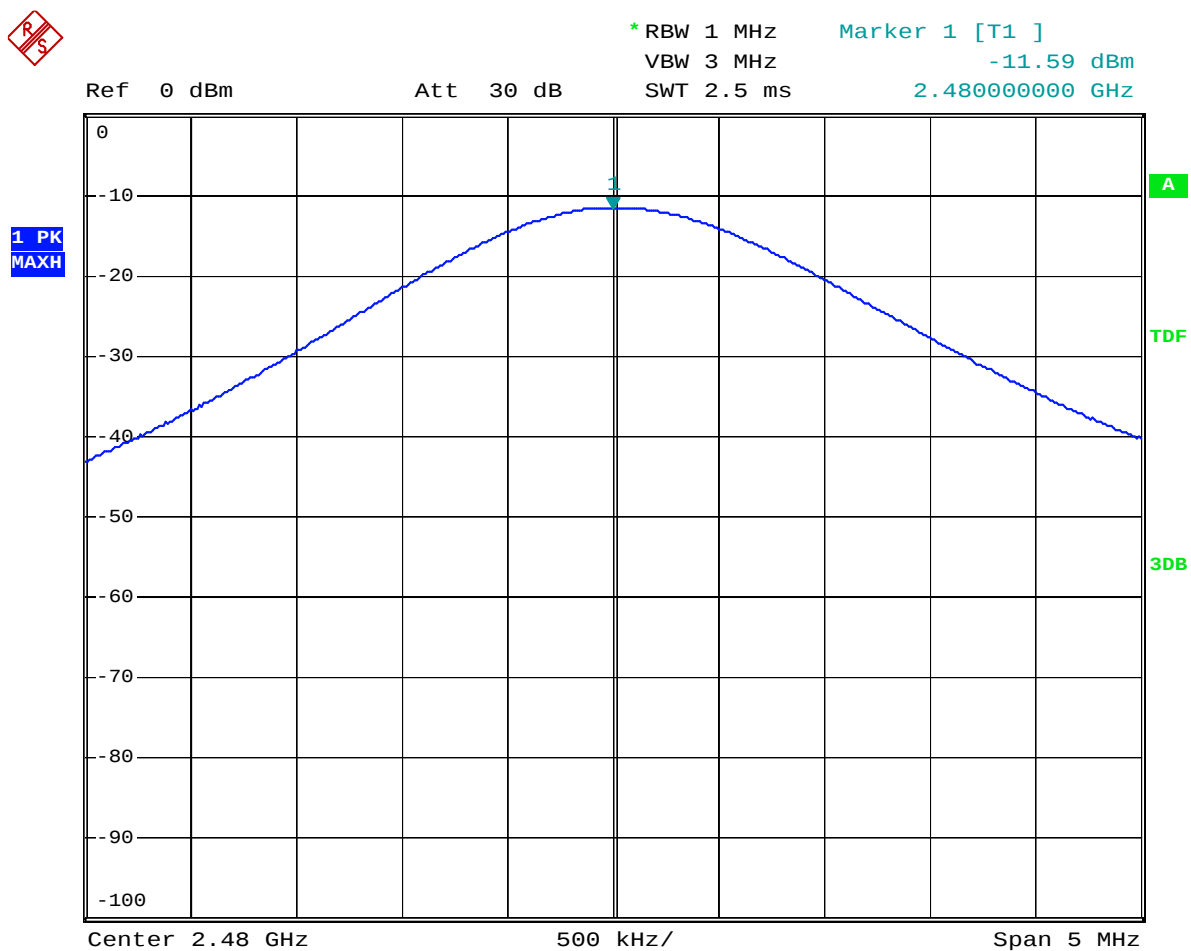
The spectrum analyzer plots are attached as below.



Date: 14.NOV.2008 09:27:13



Date: 14.NOV.2008 09:27:57

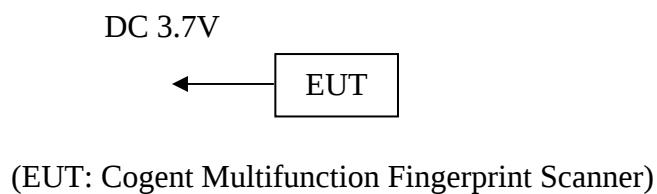


Date: 14.NOV.2008 09:28:38

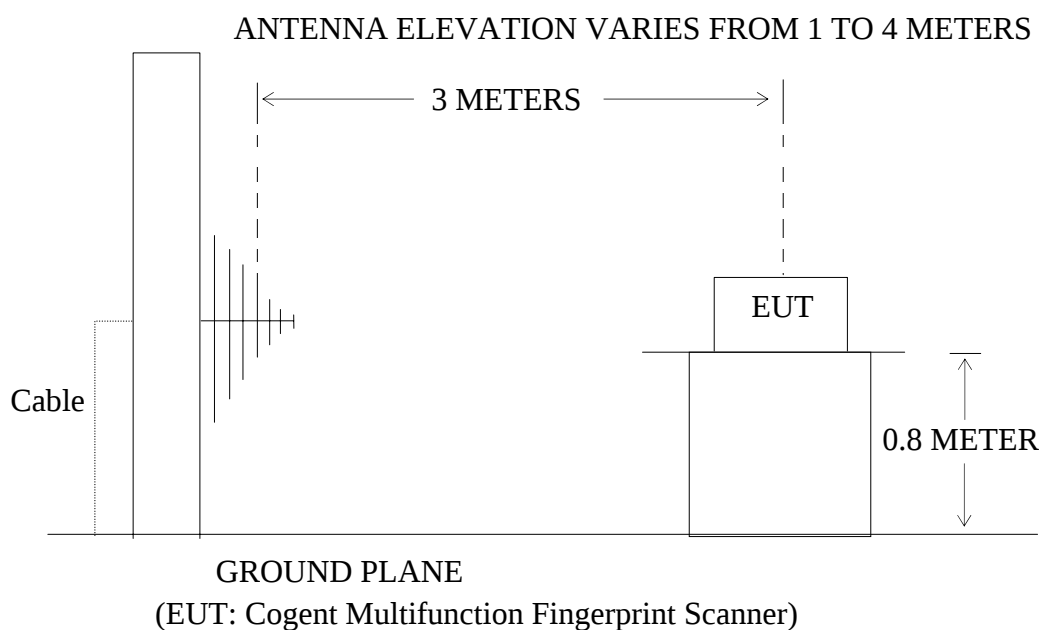
12.RADIATED EMISSION TEST (BLUETOOTH)

12.1.Block Diagram of Test Setup

12.1.1.Block diagram of connection between the EUT and simulators



12.1.2.Anechoic Chamber Test Setup Diagram



12.2.The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

12.3.Restricted bands of operation

12.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

12.4. Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

12.4.1. Cogent Multifunction Fingerprint Scanner (EUT)

Model Number : Mobile Ident™ II
 Serial Number : N/A
 Manufacturer : COGENT SYSTEMS, INC.

12.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver is set at 120KHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 25000MHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

12.6.The Field Strength of Radiation Emission Measurement Results

PASS.

Date of Test:	November 14, 2008	Temperature:	25°C
EUT:	Cogent Multifunction Fingerprint Scanner	Humidity:	52%
Model No.:	Mobile Ident™ II	Power Supply:	DC 3.7V
Test Mode:	Bluetooth TX 2402MHz	Test Engineer:	Joe

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
51.4960	18.07	14.40	32.47	40.00	-7.53	Vertical
96.6484	19.11	13.89	33.00	43.50	-10.50	Vertical
145.2760	21.43	14.48	35.91	43.50	-7.59	Vertical
145.2760	17.01	14.48	31.49	43.50	-12.01	Horizontal
431.7932	13.08	22.96	36.04	46.00	-9.96	Horizontal
499.2379	11.48	23.99	35.47	46.00	-10.53	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2400.000	50.21	53.59	-7.46	42.75	46.13	54	74	-11.25	-27.87	Vertical
2402.030	86.21	89.69	-7.45	78.76	82.24	-	-	-	-	Vertical
*4804.044	50.42	54.84	-0.30	50.12	54.54	54	74	-3.88	-19.46	Vertical
2400.000	46.61	49.92	-7.46	39.15	42.46	54	74	-14.85	-31.54	Horizontal
2402.030	82.33	85.68	-7.45	74.88	78.23	-	-	-	-	Horizontal
*4804.044	49.17	53.46	-0.30	48.87	53.16	54	74	-5.13	-20.84	Horizontal

Note: 1.The emission emitted by the EUT is too low to be measured except the emission listed above.

2. *: Denotes restricted band of operation.

Date of Test:	November 14, 2008	Temperature:	25°C
EUT:	Cogent Multifunction Fingerprint Scanner	Humidity:	52%
Model No.:	Mobile Ident™ II	Power Supply:	DC 3.7V
Test Mode:	Bluetooth TX 2441MHz	Test Engineer:	Joe

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
43.2305	14.48	16.83	31.31	40.00	-8.69	Vertical
96.6484	18.96	13.89	32.85	43.50	-10.65	Vertical
145.2760	22.67	14.48	37.15	43.50	-6.35	Vertical
145.2760	18.85	14.48	33.33	43.50	-10.17	Horizontal
431.7933	13.74	22.96	36.70	46.00	-9.30	Horizontal
499.2379	11.62	23.99	35.61	46.00	-10.39	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2.441.030	82.75	86.22	-7.35	75.40	78.87	-	-	-	-	Vertical
*4882.047	49.96	54.42	0.14	50.10	54.56	54	74	-3.90	-19.44	Vertical
2.441.030	82.94	86.20	-7.35	75.59	78.85	-	-	-	-	Horizontal
*4882.047	48.51	53.19	0.14	48.65	53.33	54	74	-5.35	-20.67	Horizontal

Note: 1.The emission emitted by the EUT is too low to be measured except the emission listed above.**2. *: Denotes restricted band of operation.**

Date of Test:	November 14, 2008	Temperature:	25°C
EUT:	Cogent Multifunction Fingerprint Scanner	Humidity:	52%
Model No.:	Mobile Ident™ II	Power Supply:	DC 3.7V
Test Mode:	Bluetooth TX 2480MHz	Test Engineer:	Joe

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
96.1485	19.33	13.88	33.21	43.50	-10.29	Vertical
145.2760	20.13	14.48	34.61	43.50	-8.89	Vertical
151.9955	18.56	14.54	33.10	43.50	-10.40	Vertical
155.7427	17.38	14.57	31.95	43.50	-11.55	Horizontal
158.9289	17.64	14.59	32.23	43.50	-11.27	Horizontal
431.7932	14.45	22.96	37.41	46.00	-8.59	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2.480.000	85.38	88.53	-7.37	78.01	81.16	-	-	-	-	Vertical
2483.500	40.11	43.37	-7.37	32.74	36.00	54	74	-21.26	-38.00	Vertical
*4960.001	49.17	53.46	0.52	49.69	53.98	54	74	-4.31	-20.02	Vertical
2.480.000	83.34	86.49	-7.37	75.97	79.12	-	-	-	-	Horizontal
2483.500	38.31	41.57	-7.37	30.94	34.20	54	74	-23.06	-39.80	Horizontal
*4960.001	48.41	52.83	0.52	48.93	53.35	54	74	-5.07	-20.65	Horizontal

Note: 1.The emission emitted by the EUT is too low to be measured except the emission listed above.**2. *: Denotes restricted band of operation.**



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Fax:+86-0755-26503396

Job No.: COGENT #105

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2402MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 2008/11/14

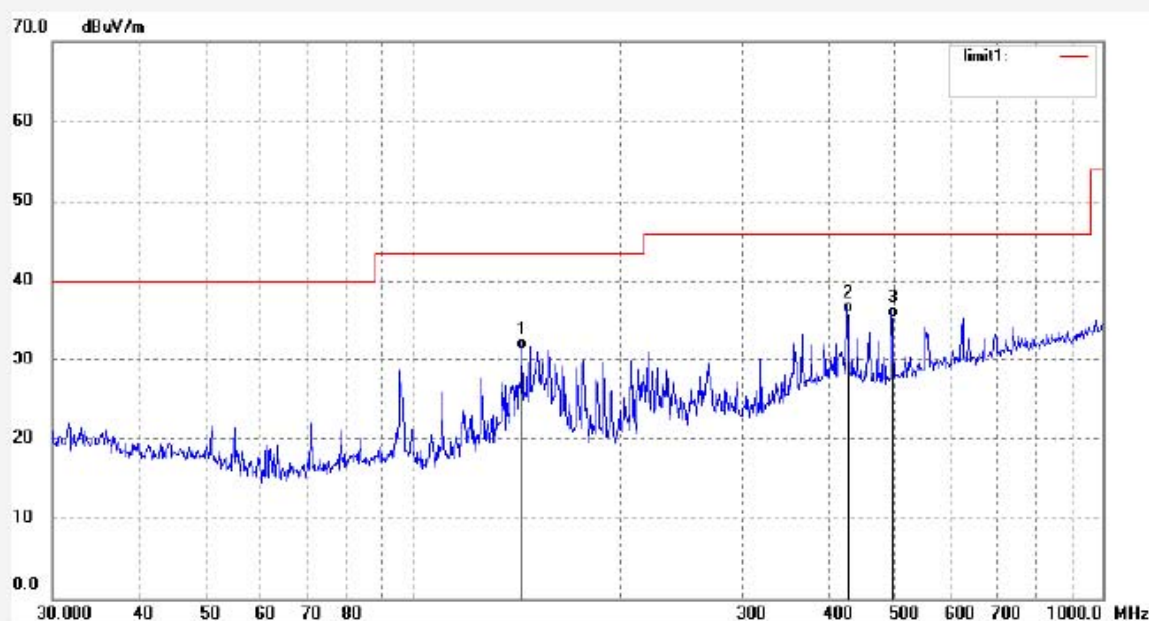
Time: 13:55:59

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	145.2760	17.01	14.48	31.49	43.50	-12.01	QP	
2	431.7932	13.08	22.96	36.04	46.00	-9.96	QP	
3	499.2379	11.48	23.99	35.47	46.00	-10.53	QP	


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Job No.: COGENT #106

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2402MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 2008/11/14

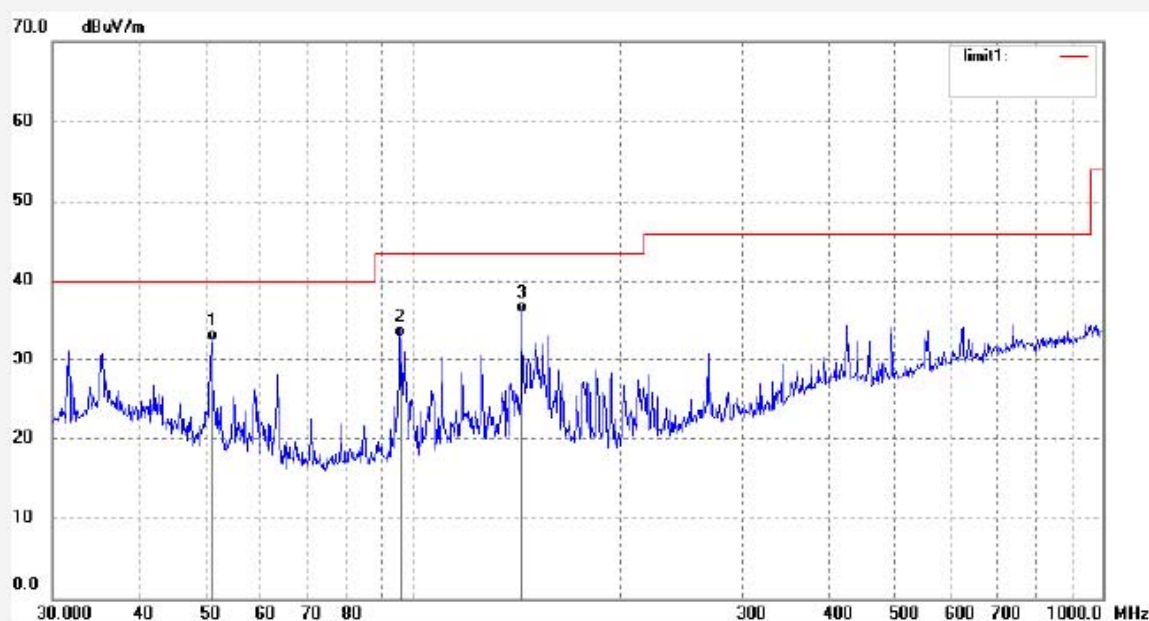
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Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	51.4960	18.07	14.40	32.47	40.00	-7.53	QP	
2	96.6484	19.11	13.89	33.00	43.50	-10.50	QP	
3	145.2760	21.43	14.48	35.91	43.50	-7.59	QP	



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Job No.: COGENT #135

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2402MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 2008/11/14

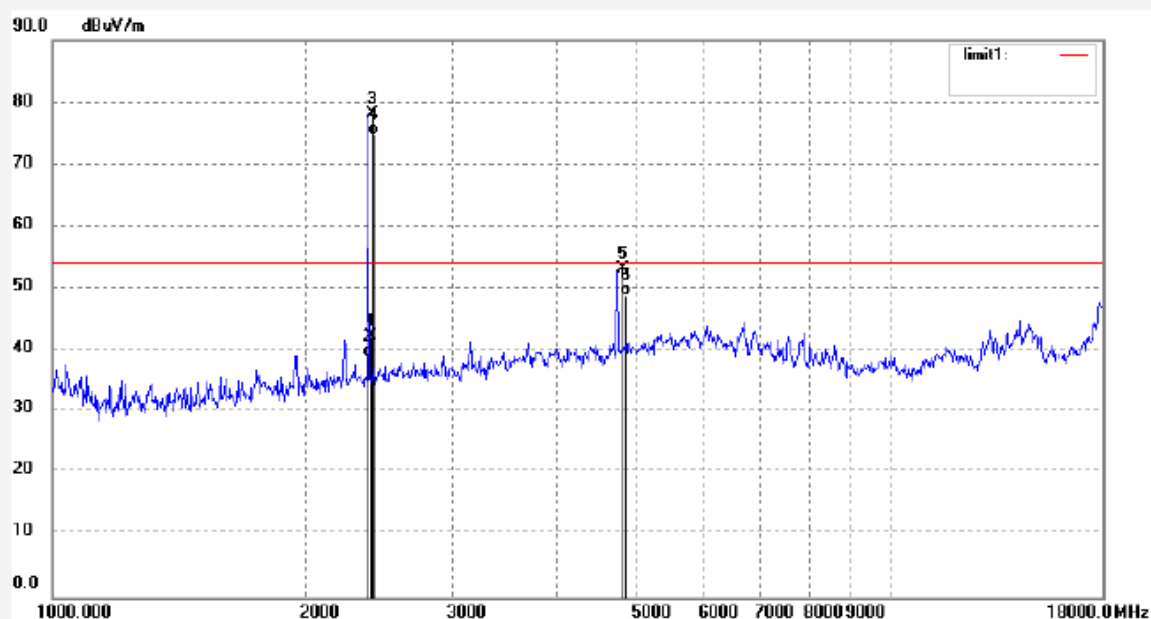
Time: 16:42:41

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2400.000	49.92	-7.46	42.46	74.00	-31.54	peak	
2	2400.000	46.61	-7.46	39.15	54.00	-14.85	AVG	
3	2402.030	85.68	-7.45	78.23	-	-	peak	
4	2402.030	82.33	-7.45	74.88	-	-	AVG	
5	4804.044	53.46	-0.30	53.16	74.00	-20.84	peak	
6	4804.044	49.17	-0.30	48.87	54.00	-5.13	AVG	


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Job No.: COGENT #136

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2402MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 2008/11/14

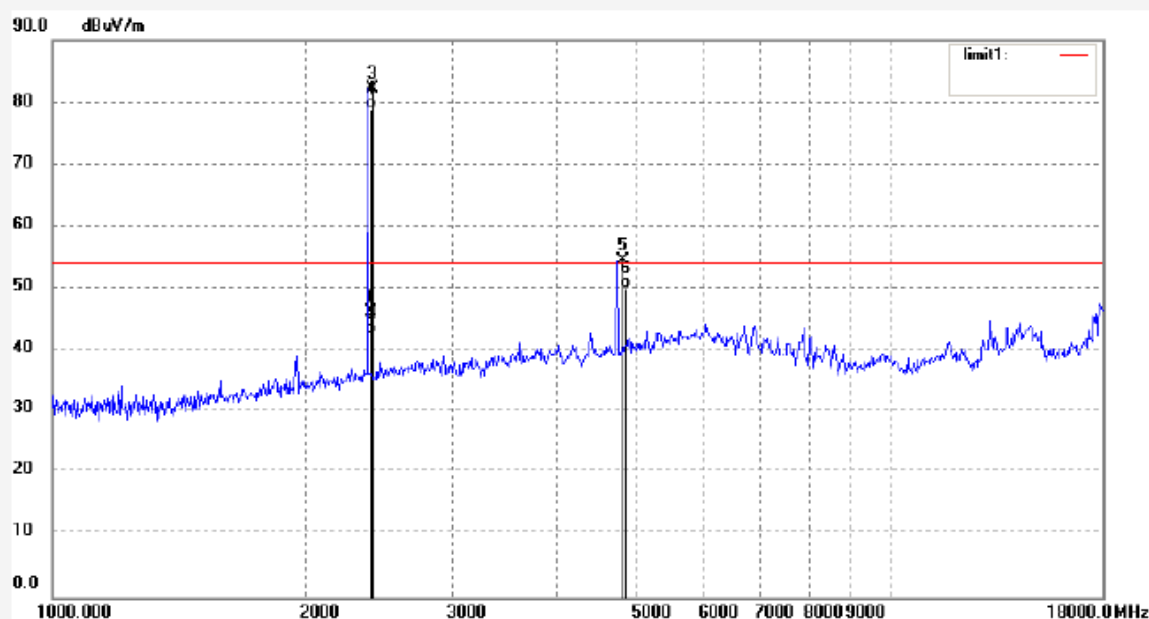
Time: 16:53:38

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2400.000	53.59	-7.46	46.13	74.00	-27.87	peak	
2	2400.000	50.21	-7.46	42.75	54.00	-11.25	AVG	
3	2402.030	89.69	-7.45	82.24	-	-	peak	
4	2402.030	86.21	-7.45	78.76	-	-	AVG	
5	4804.044	54.84	-0.30	54.54	74.00	-19.46	peak	
6	4804.044	50.42	-0.30	50.12	54.00	-3.88	AVG	


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Job No.: COGENT #142

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2402MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 2008/11/14

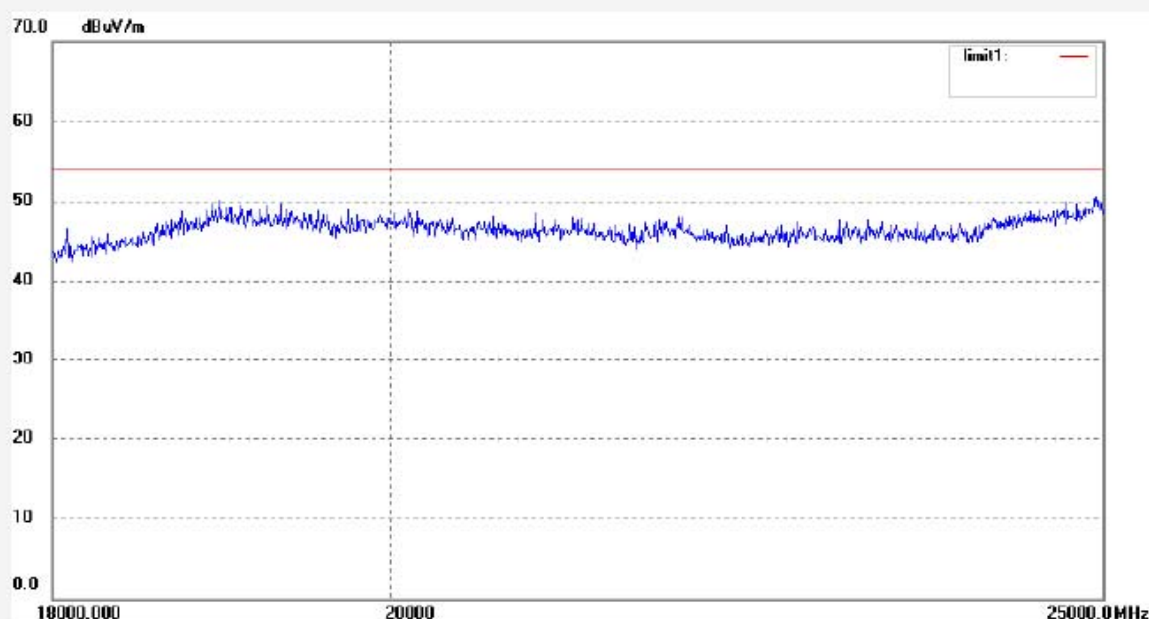
Time: 17:25:37

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
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Job No.: COGENT #141

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2402MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 2008/11/14

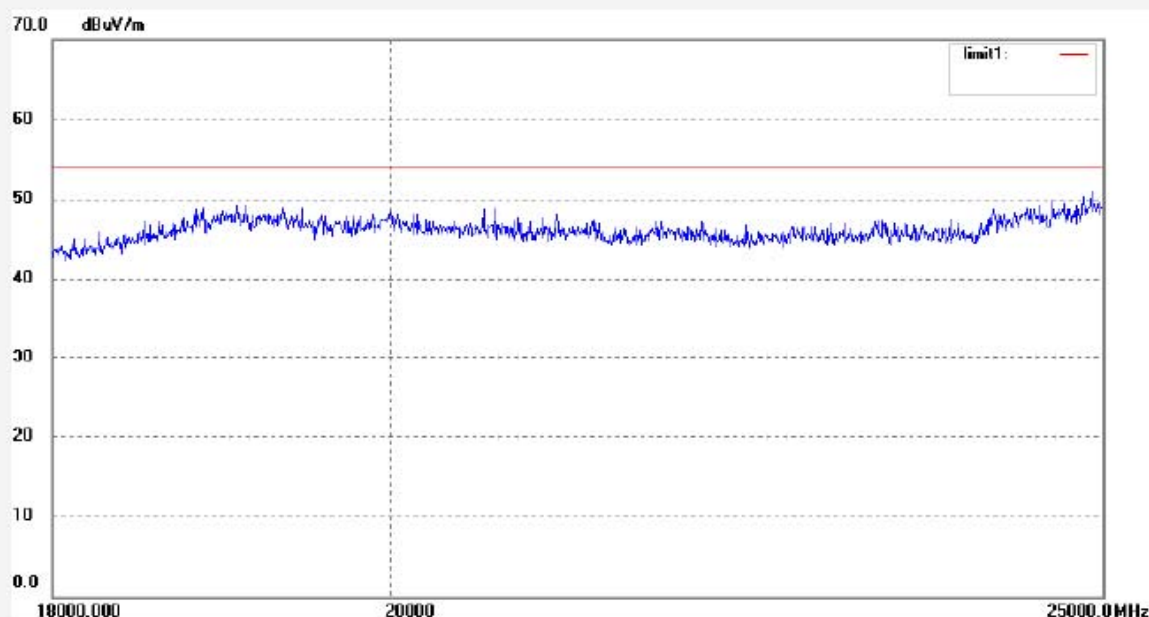
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Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
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Job No.: COGENT #108

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2441MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 2008/11/14

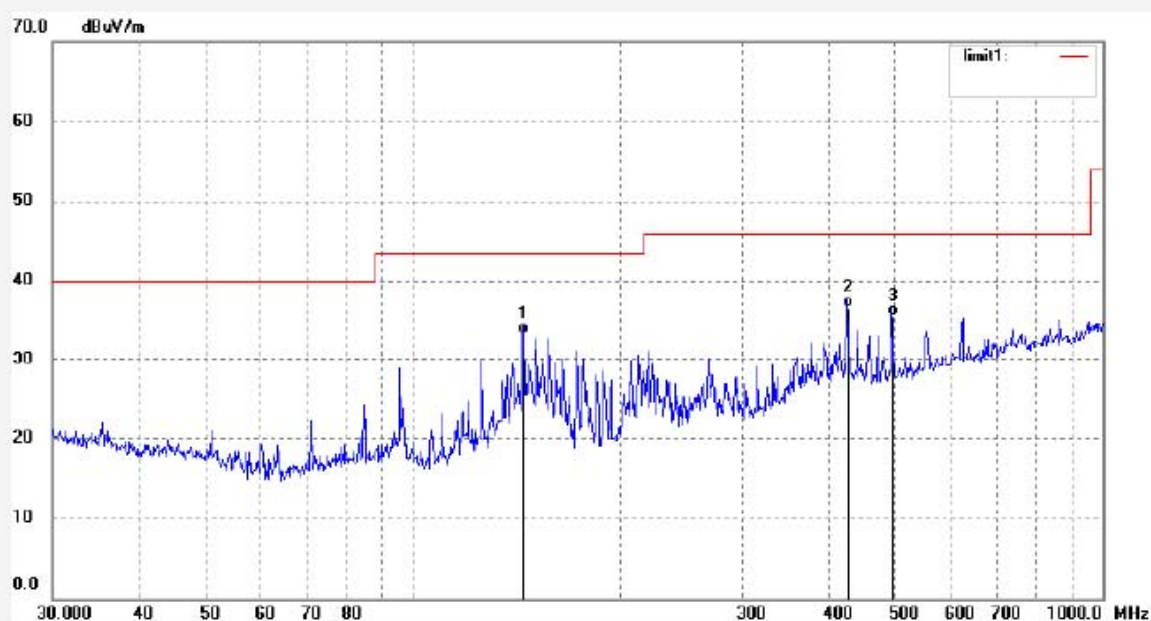
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Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	145.2760	18.85	14.48	33.33	43.50	-10.17	QP	
2	431.7933	13.74	22.96	36.70	46.00	-9.30	QP	
3	499.2379	11.62	23.99	35.61	46.00	-10.39	QP	


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Job No.: COGENT #107

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2441MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 2008/11/14

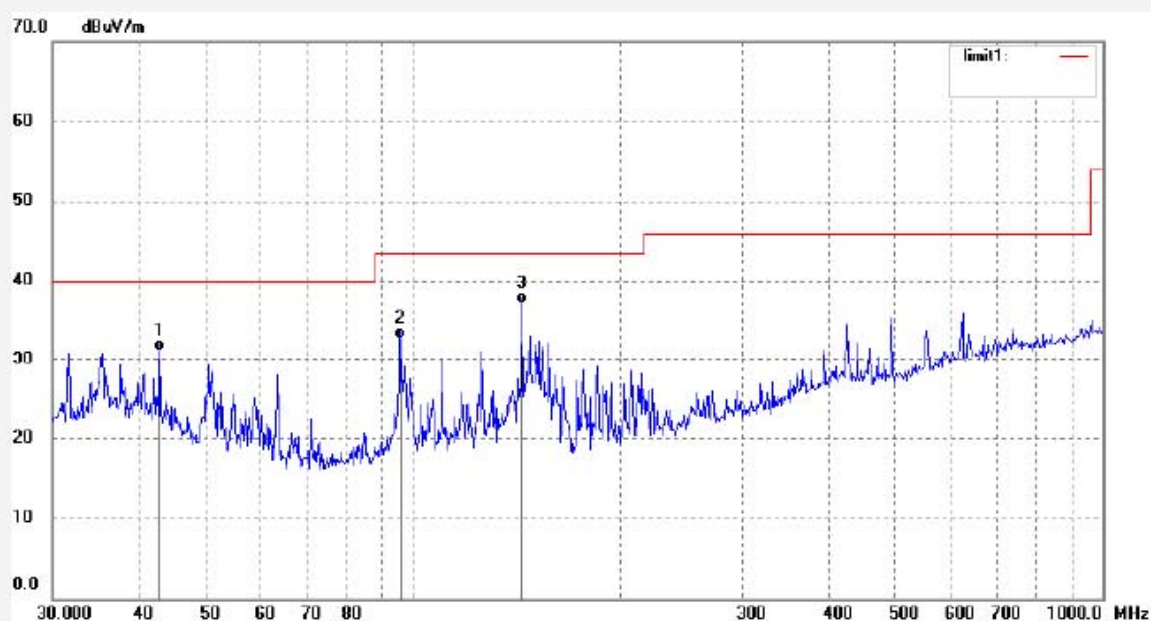
Time: 14:00:44

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	43.2305	14.48	16.83	31.31	40.00	-8.69	QP	
2	96.6484	18.96	13.89	32.85	43.50	-10.65	QP	
3	145.2760	22.67	14.48	37.15	43.50	-6.35	QP	


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Job No.: COGENT #138

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2441MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 2008/11/14

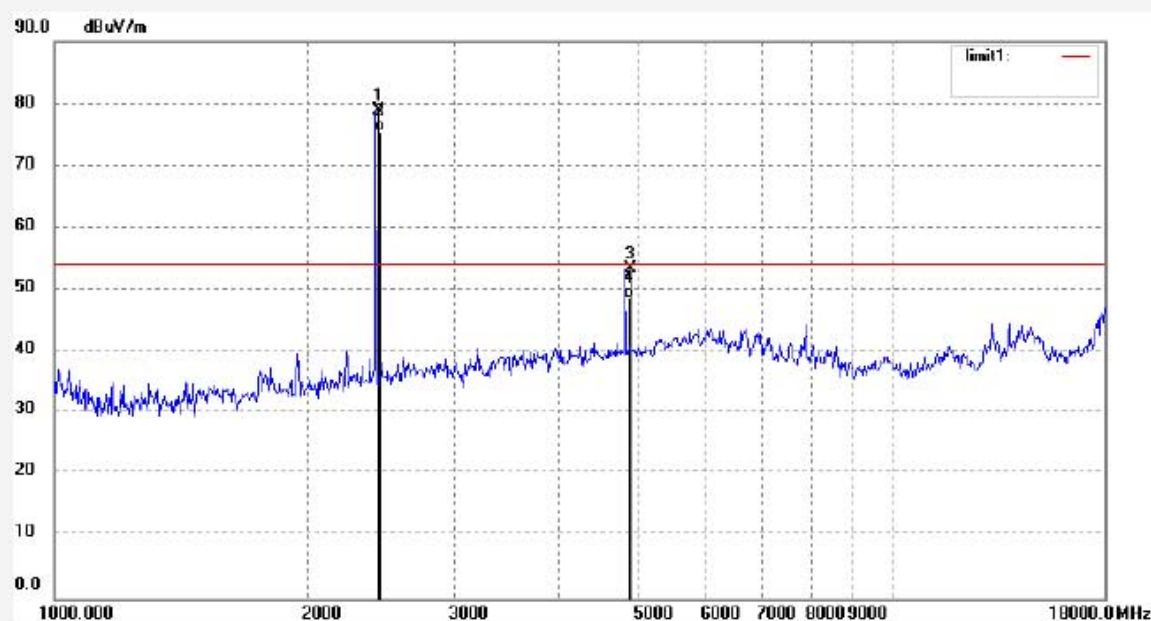
Time: 17:11:41

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2441.030	86.20	-7.35	78.85	-	-	peak	
2	2441.030	82.94	-7.35	75.59	-	-	AVG	
3	4882.047	53.19	0.14	53.33	74.00	-20.67	peak	
4	4882.047	48.51	0.14	48.65	54.00	-5.35	AVG	



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Job No.: COGENT #137

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2441MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 2008/11/14

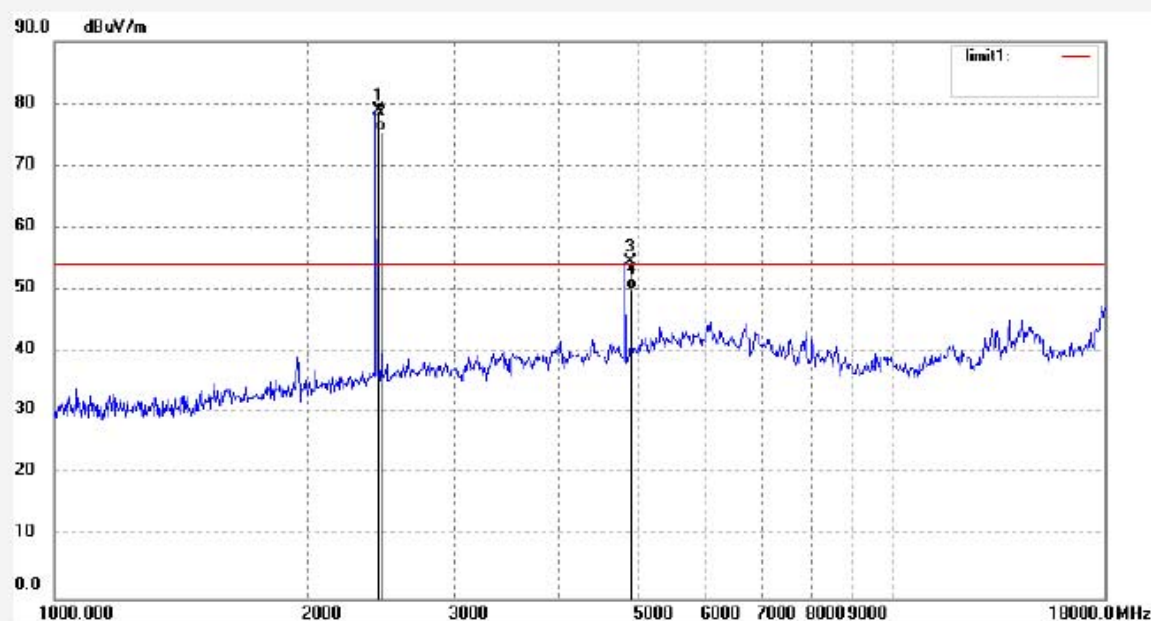
Time: 17:03:53

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2441.030	86.22	-7.35	78.87	-	-	peak	
2	2441.030	82.75	-7.35	75.40	-	-	AVG	
3	4882.047	54.42	0.14	54.56	74.00	-19.44	peak	
4	4882.047	49.96	0.14	50.10	54.00	-3.90	AVG	


ACCURATE TECHNOLOGY CO., LTD.

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 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: COGENT #143

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2441MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 2008/11/14

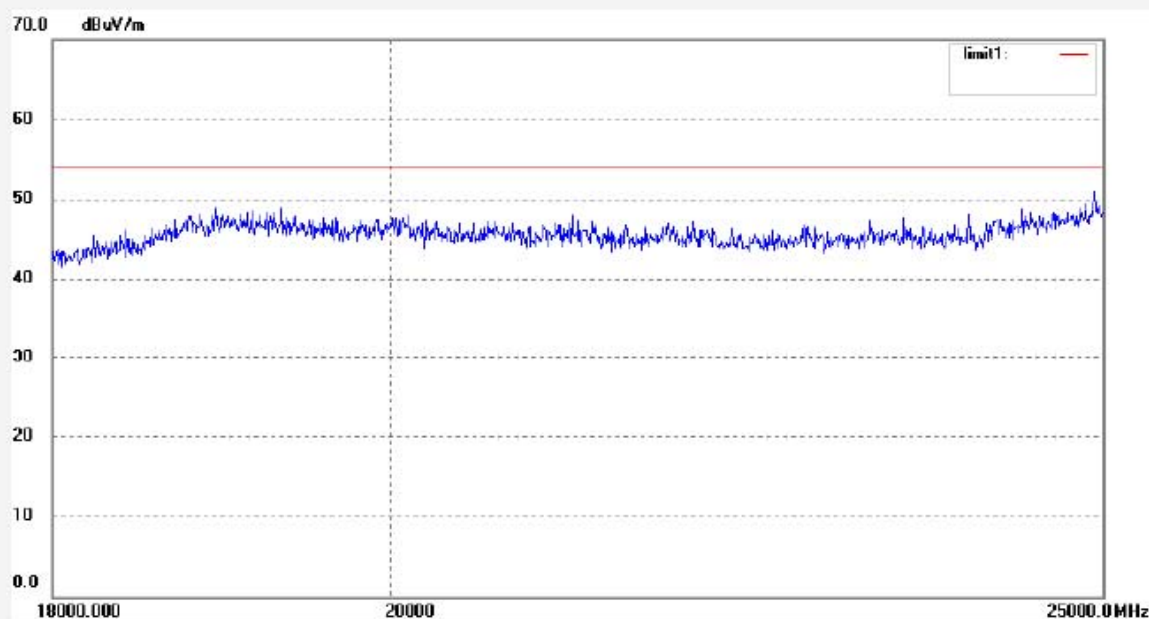
Time: 17:30:16

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: COGENT #144

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2441MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 2008/11/14

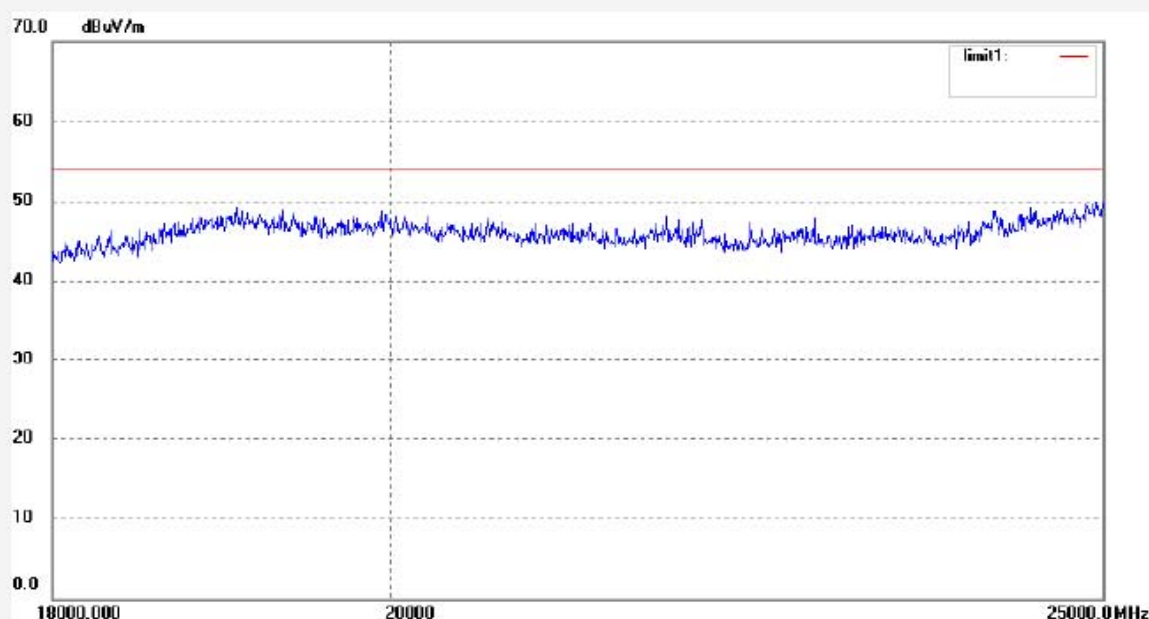
Time: 17:34:07

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
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 Site: 966 chamber
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 Fax:+86-0755-26503396

Job No.: COGENT #109

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2480MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 2008/11/14

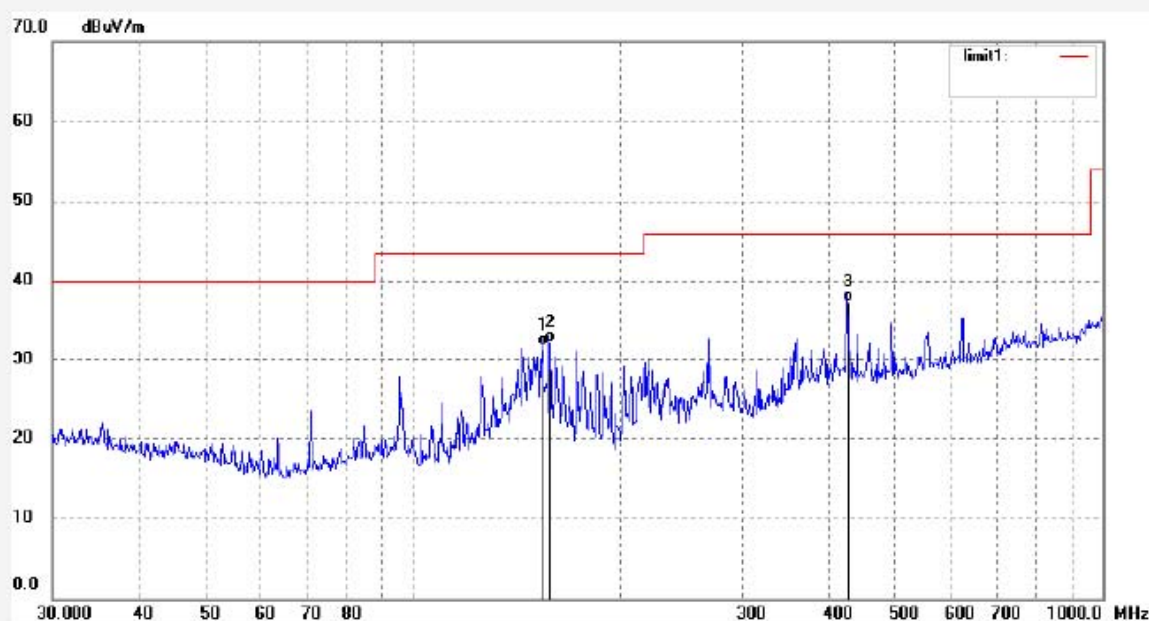
Time: 14:05:46

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	155.7427	17.38	14.57	31.95	43.50	-11.55	QP	
2	158.9289	17.64	14.59	32.23	43.50	-11.27	QP	
3	431.7932	14.45	22.96	37.41	46.00	-8.59	QP	


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 Fax:+86-0755-26503396

Job No.: COGENT #110

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2480MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 2008/11/14

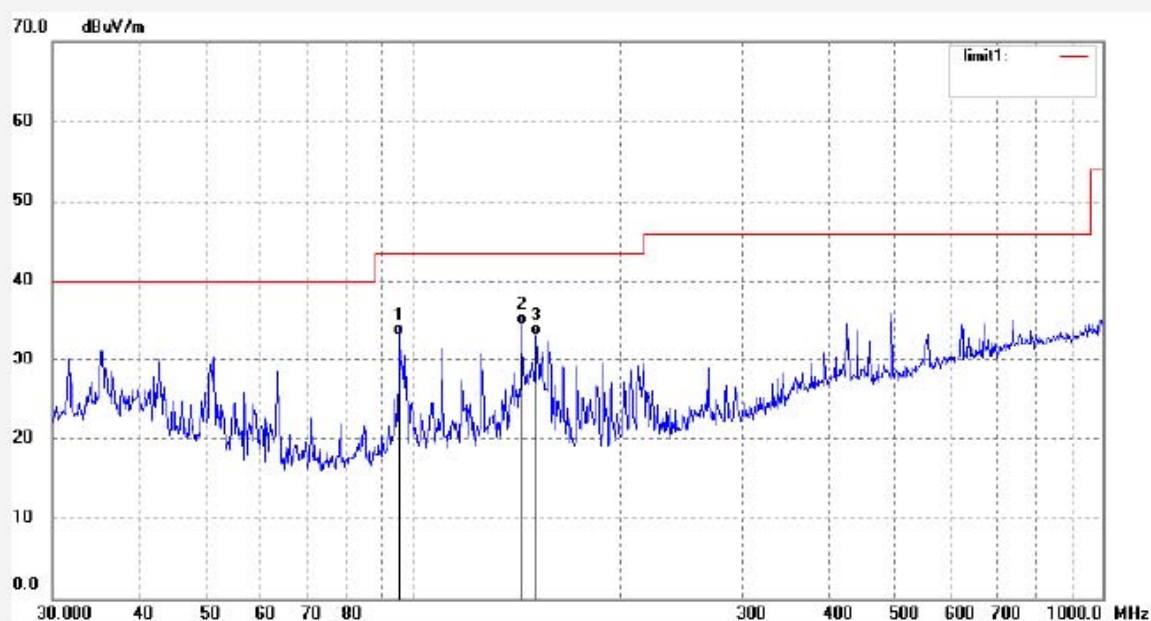
Time: 14:07:30

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	96.1485	19.33	13.88	33.21	43.50	-10.29	QP	
2	145.2760	20.13	14.48	34.61	43.50	-8.89	QP	
3	151.9955	18.56	14.54	33.10	43.50	-10.40	QP	


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 Site: 966 chamber
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 Fax:+86-0755-26503396

Job No.: COGENT #139

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2480MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 2008/11/14

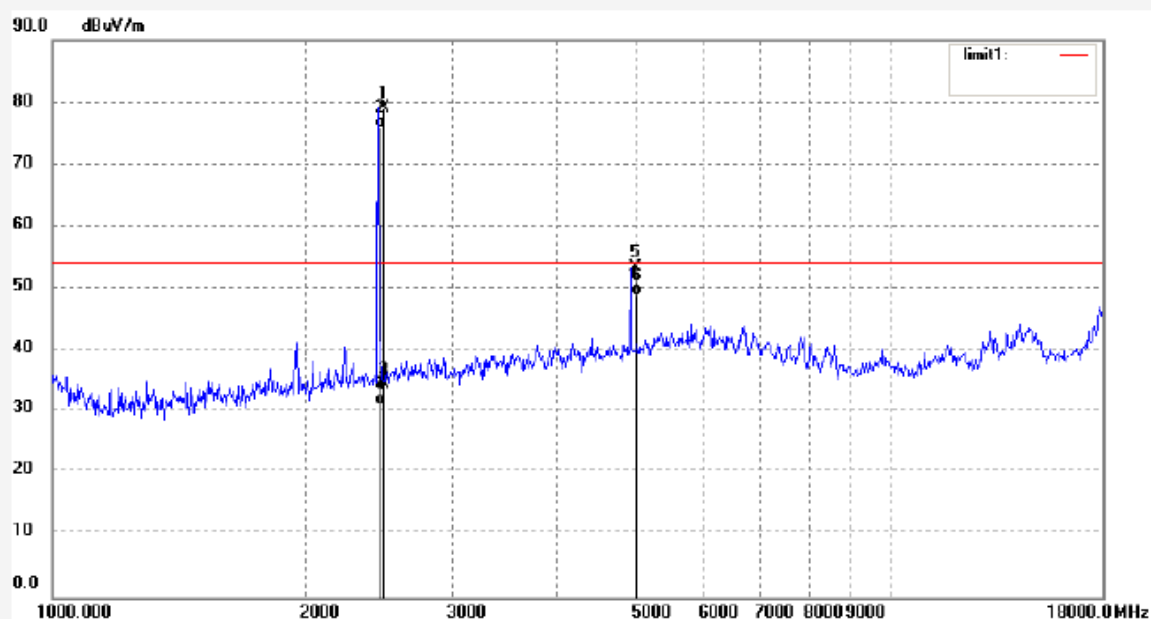
Time: 17:14:21

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2480.000	86.49	-7.37	79.12	-	-	peak	
2	2480.000	83.34	-7.37	75.97	-	-	AVG	
3	2483.500	41.57	-7.37	34.20	74.00	-39.80	peak	
4	2483.500	38.31	-7.37	30.94	54.00	-23.06	AVG	
5	4960.001	52.83	0.52	53.35	74.00	-20.65	peak	
6	4960.001	48.41	0.52	48.93	54.00	-5.07	AVG	


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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: COGENT #140

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2480MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 2008/11/14

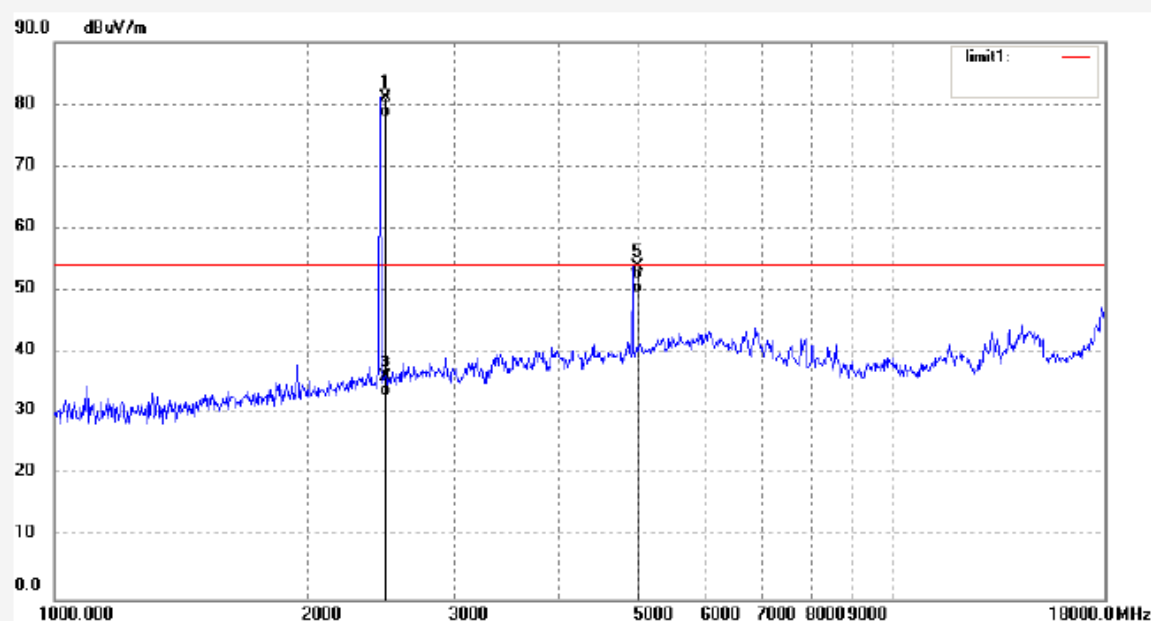
Time: 17:16:36

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2480.000	88.53	-7.37	81.16	-	-	peak	
2	2480.000	85.38	-7.37	78.01	-	-	AVG	
3	2483.500	43.37	-7.37	36.00	74.00	-38.00	peak	
4	2483.500	40.11	-7.37	32.74	54.00	-21.26	AVG	
5	4960.001	53.46	0.52	53.98	74.00	-20.02	peak	
6	4960.001	49.17	0.52	49.69	54.00	-4.31	AVG	


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Site: 966 chamber
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Fax:+86-0755-26503396

Job No.: COGENT #146

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2480MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 2008/11/14

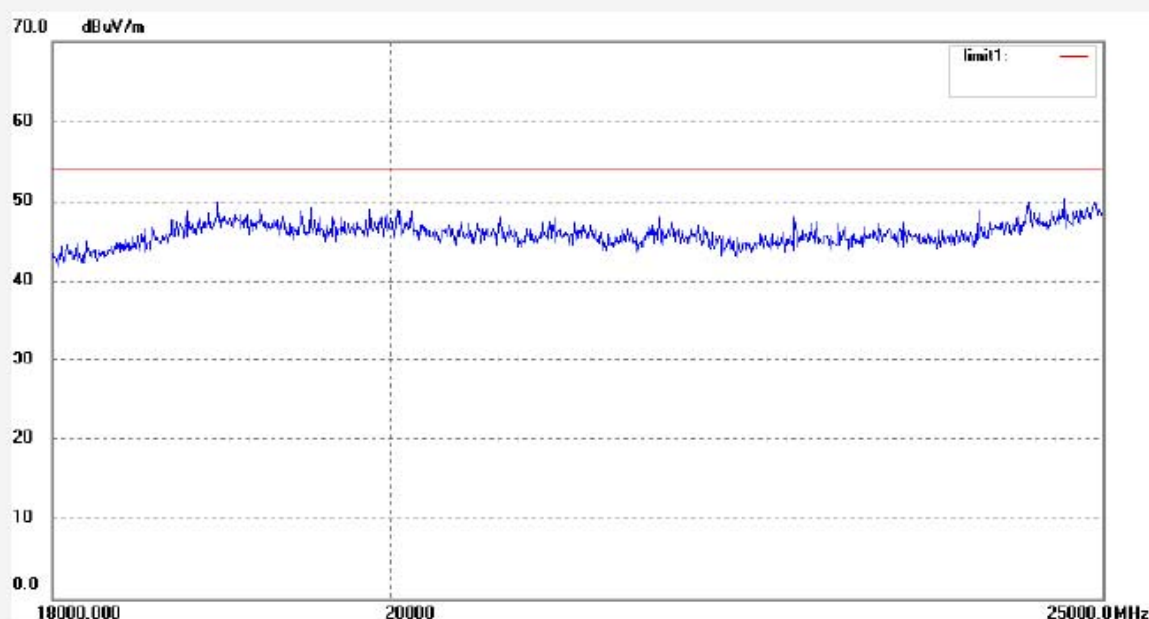
Time: 17:45:15

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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 Site: 966 chamber
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 Fax:+86-0755-26503396

Job No.: COGENT #145

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Bluetooth TX 2480MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 2008/11/14

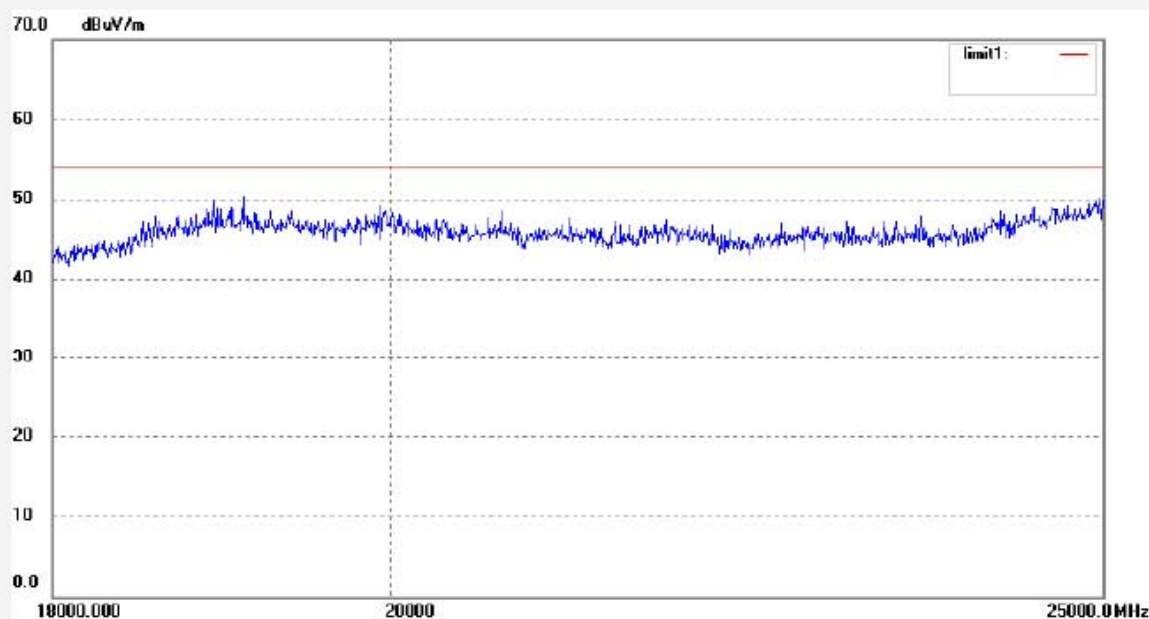
Time: 17:41:36

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

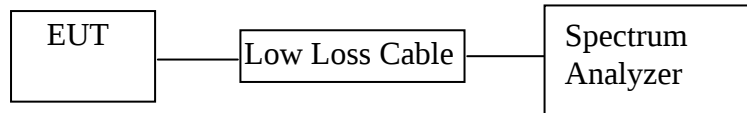
Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
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13.BAND EDGE COMPLIANCE TEST (BLUETOOTH)

13.1.Block Diagram of Test Setup



(EUT: Cogent Multifunction Fingerprint Scanner)

13.2.The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

13.3.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

13.3.1.Cogent Multifunction Fingerprint Scanner (EUT)

Model Number	:	Mobile Ident™ II
Serial Number	:	N/A
Manufacturer	:	COGENT SYSTEMS, INC.

13.4.Operating Condition of EUT

13.4.1.Setup the EUT and simulator as shown as Section 13.1.

13.4.2.Turn on the power of all equipment.

13.4.3.Let the EUT work in TX (Hopping off, Hopping on) modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

13.5.Test Procedure

13.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

13.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz with convenient frequency span.

13.5.3.The band edges was measured and recorded.

13.6. Test Result

Pass

Date of Test:	<u>November 14, 2008</u>	Temperature:	<u>25°C</u>
EUT:	<u>Cogent Multifunction Fingerprint Scanner</u>	Humidity:	<u>52%</u>
Model No.:	<u>Mobile Ident™ II</u>	Power Supply:	<u>DC 3.7V</u>
Test Mode:	<u>TX (Hopping off)</u>	Test Engineer:	<u>Joe</u>

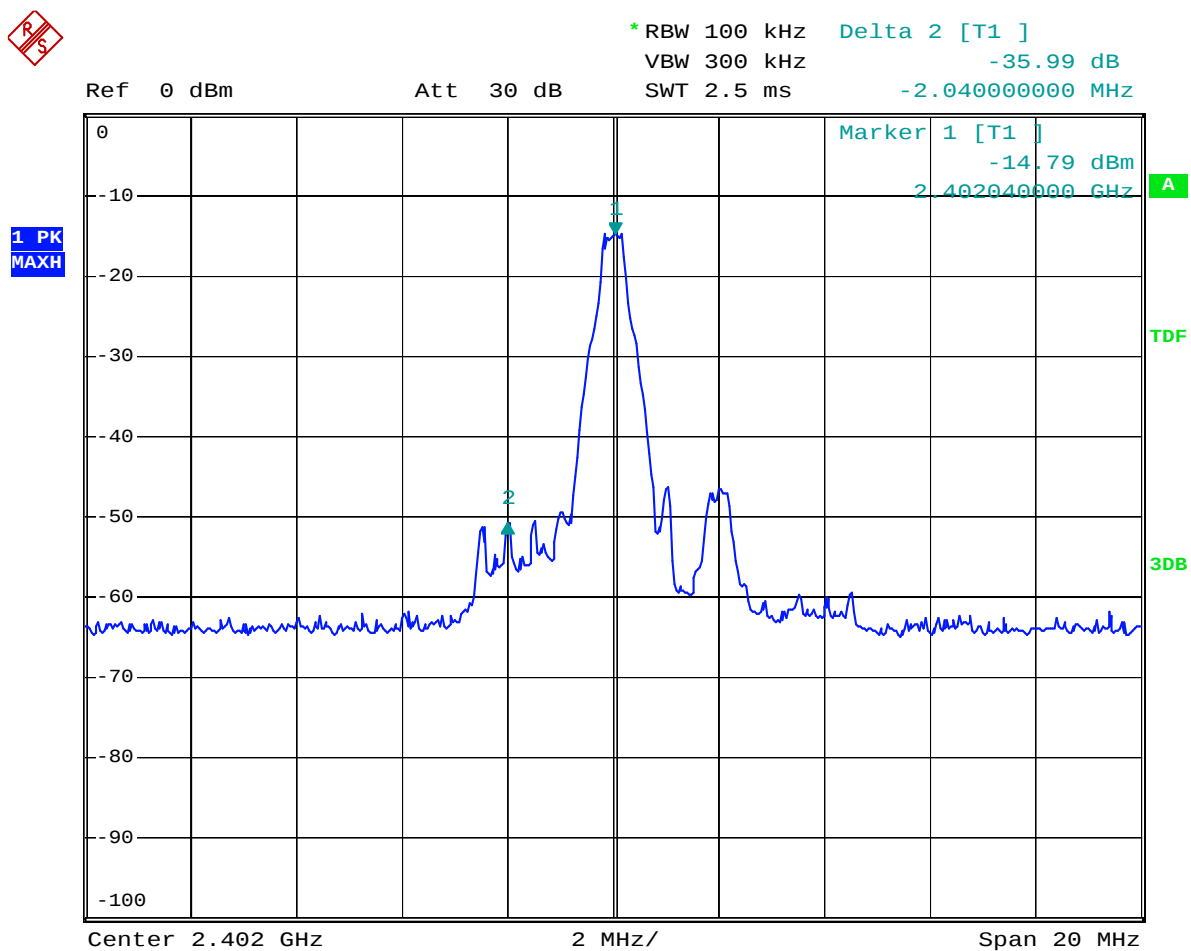
Conducted test

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2402	35.99	> 20dBc
2480	45.86	> 20dBc

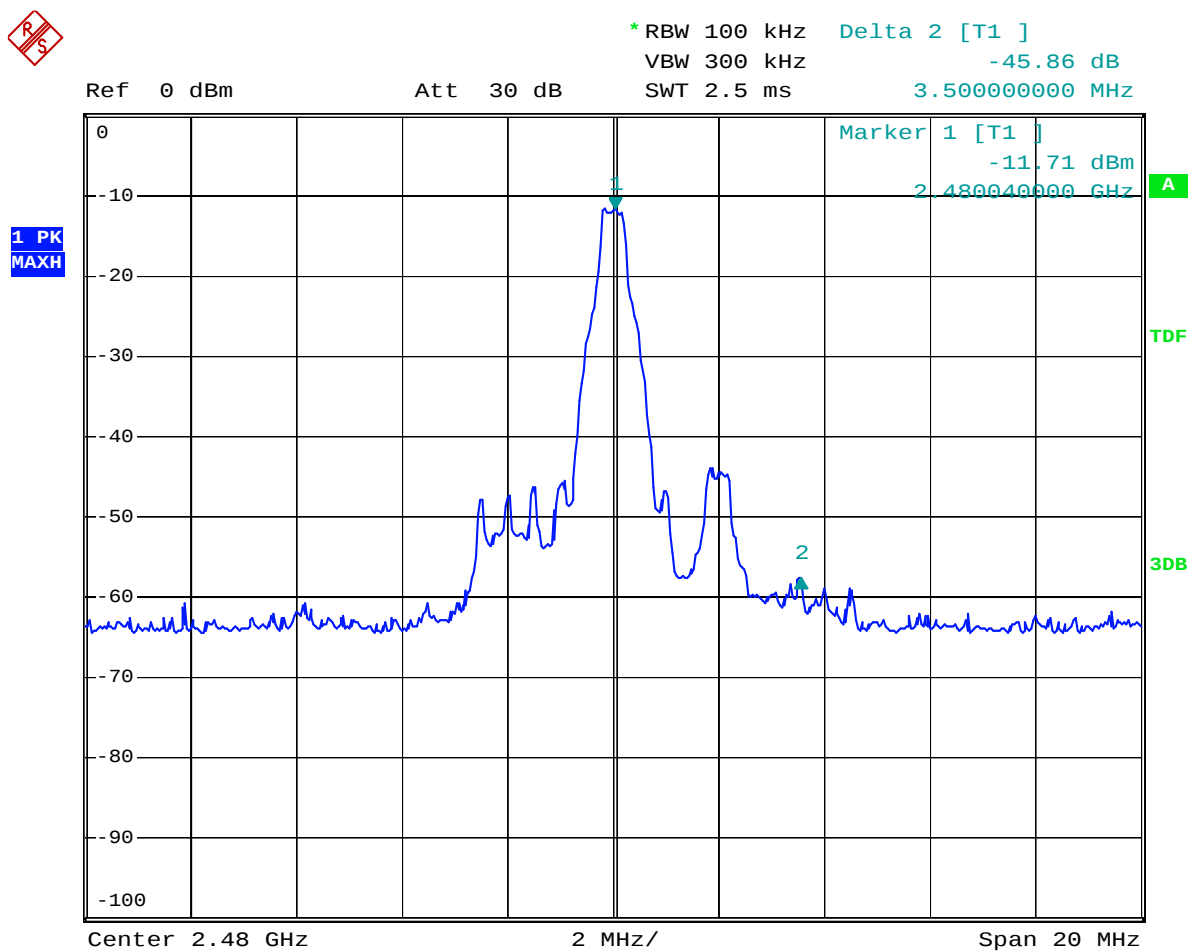
Date of Test:	<u>November 14, 2008</u>	Temperature:	<u>25°C</u>
EUT:	<u>Cogent Multifunction Fingerprint Scanner</u>	Humidity:	<u>52%</u>
Model No.:	<u>Mobile Ident™ II</u>	Power Supply:	<u>DC 3.7V</u>
Test Mode:	<u>TX (Hopping on)</u>	Test Engineer:	<u>Joe</u>

Conducted test

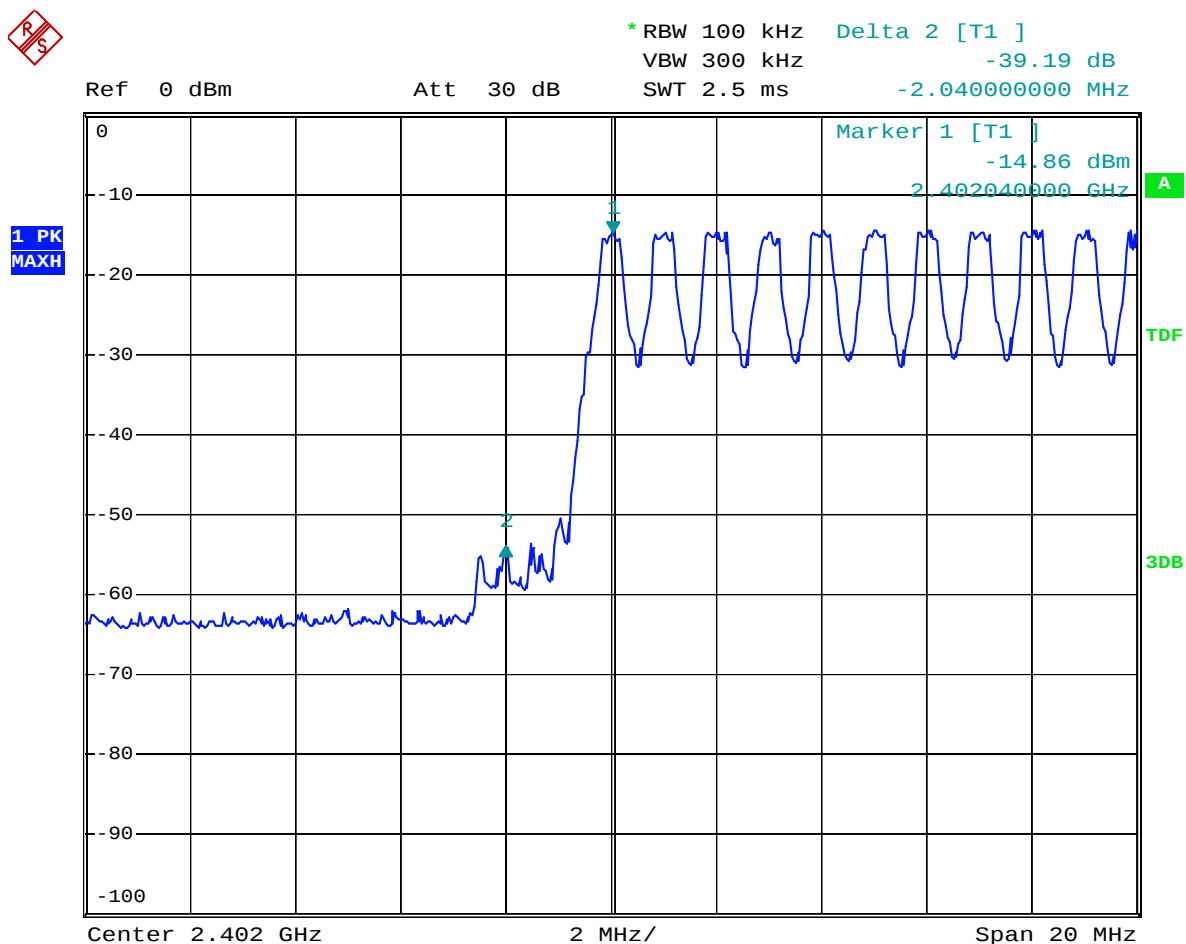
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2402	39.19	> 20dBc
2480	48.06	> 20dBc



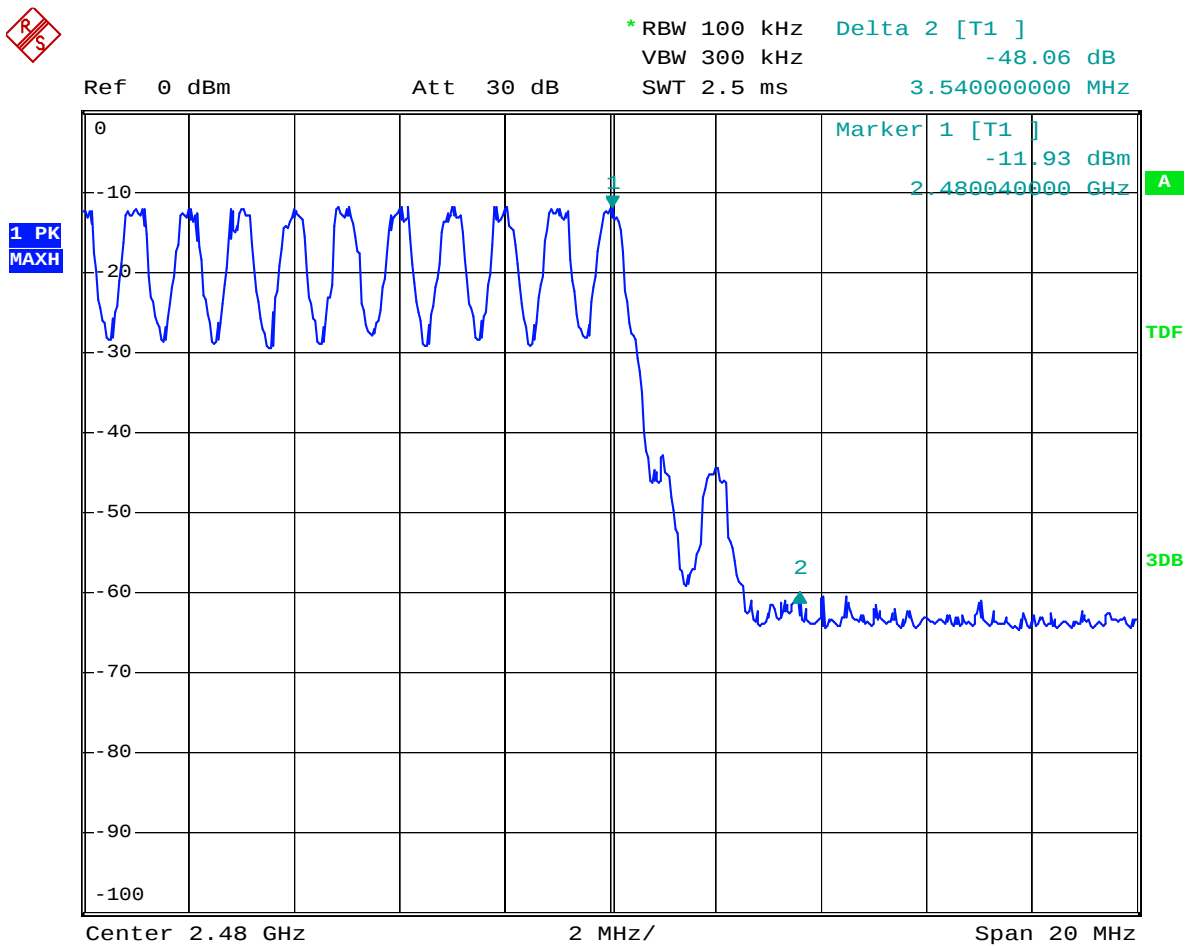
Date: 14.NOV.2008 09:44:01



Date: 14.NOV.2008 09:50:59



Date: 14.NOV.2008 10:00:37



Date: 14.NOV.2008 09:54:51

14.ANTENNA REQUIREMENT (BLUETOOTH)

14.1.The Requirement

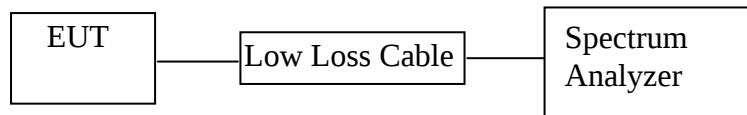
According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

14.2.Antenna Construction

The transmitter utilizes SMD chip antenna, no consideration of replacement. Therefore, the equipment complies with the antenna requirement of Section 15.203.

15.6DB BANDWIDTH MEASUREMENT (WI-FI)

15.1.Block Diagram of Test Setup



(EUT: Cogent Multifunction Fingerprint Scanner)

15.2.The Requirement For Section 15.247(a)(1)

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

15.3.EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

15.3.1.Cogent Multifunction Fingerprint Scanner (EUT)

Model Number	:	Mobile Ident™ II
Serial Number	:	N/A
Manufacturer	:	COGENT SYSTEMS, INC.

15.4.Operating Condition of EUT

15.4.1.Setup the EUT and simulator as shown as Section 15.1.

15.4.2.Turn on the power of all equipment.

15.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

15.5. Test Procedure

15.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

15.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

15.5.3. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

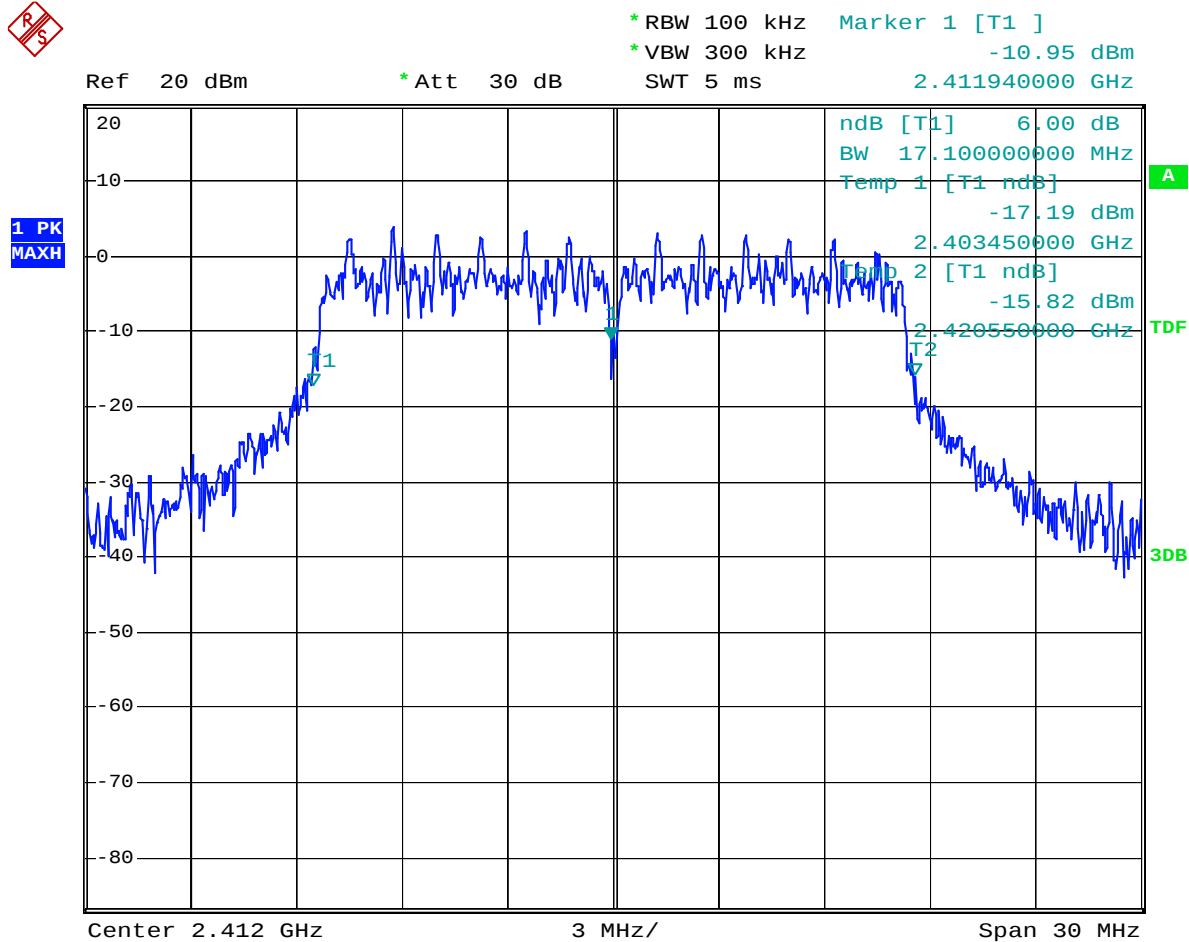
15.6. Test Result

PASS.

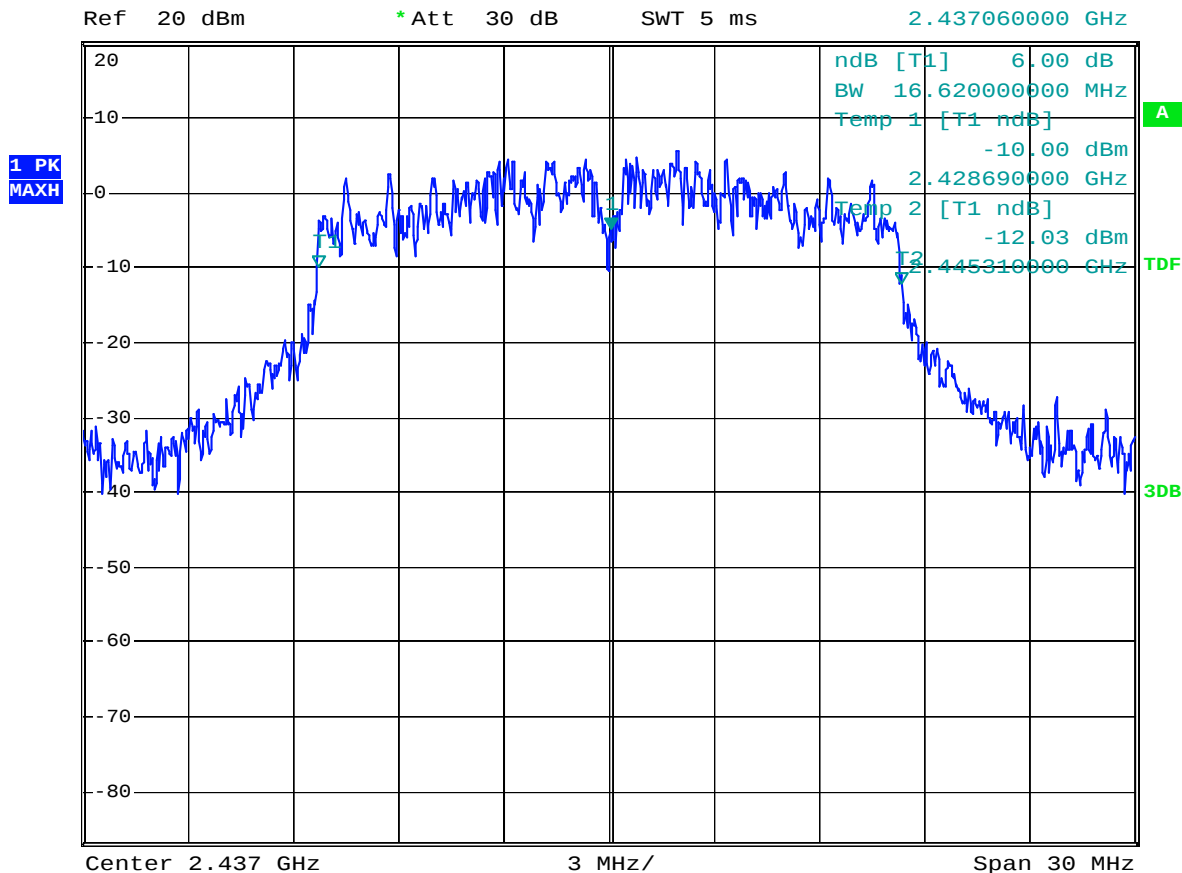
Date of Test:	November 11, 2008	Temperature:	25°C
EUT:	Cogent Multifunction Fingerprint Scanner	Humidity:	52%
Model No.:	Mobile Ident™ II	Power Supply:	DC 3.7V
Test Mode:	TX	Test Engineer:	Joe

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	17.10	> 0.5MHz
Middle	2437	16.62	> 0.5MHz
High	2462	16.68	> 0.5MHz

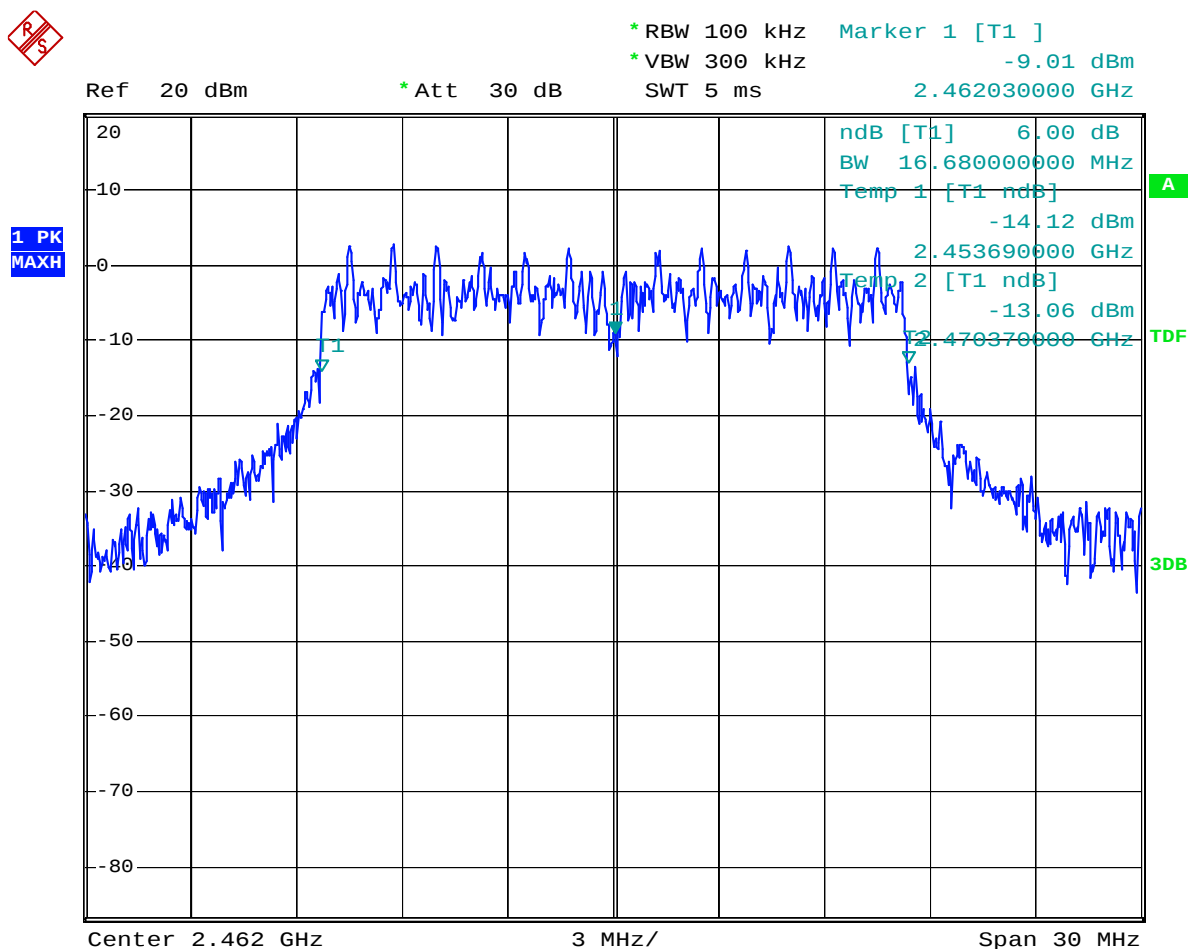
The spectrum analyzer plots are attached as below.



Date: 11.NOV.2008 10:43:52



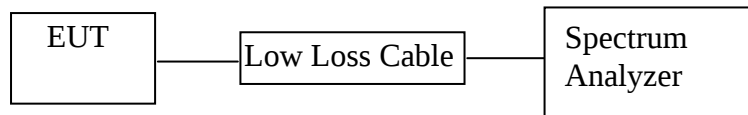
Date: 11.NOV.2008 11:39:24



Date: 11.NOV.2008 11:23:01

16. MAXIMUM PEAK OUTPUT POWER (WI-FI)

16.1. Block Diagram of Test Setup



(EUT: Cogent Multifunction Fingerprint Scanner)

16.2. The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

16.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

16.3.1. Cogent Multifunction Fingerprint Scanner (EUT)

Model Number	:	Mobile Ident™ II
Serial Number	:	N/A
Manufacturer	:	COGENT SYSTEMS, INC.

16.4. Operating Condition of EUT

16.4.1. Setup the EUT and simulator as shown as Section 16.1.

16.4.2. Turn on the power of all equipment.

16.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

16.5. Test Procedure

16.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

16.5.2. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.

16.5.3. Measurement the maximum peak output power.

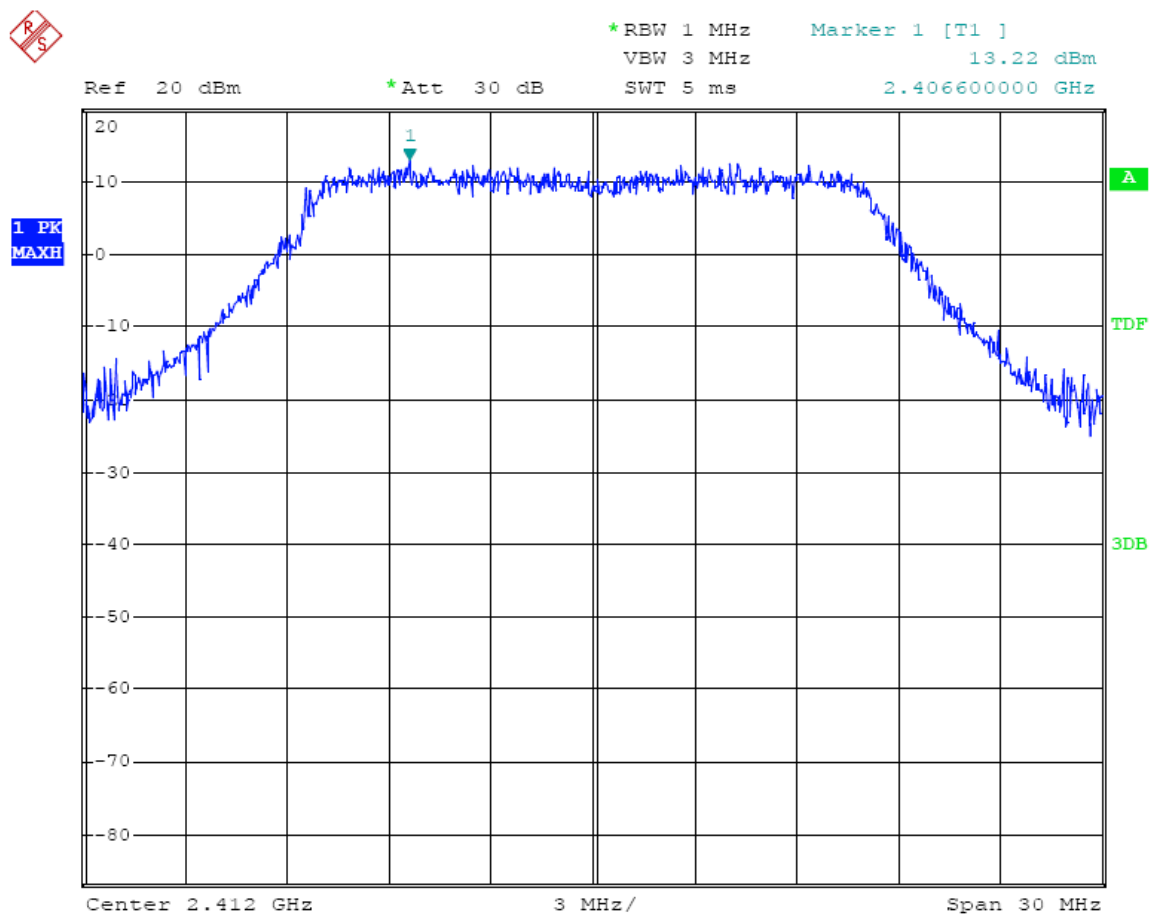
16.6. Test Result

PASS.

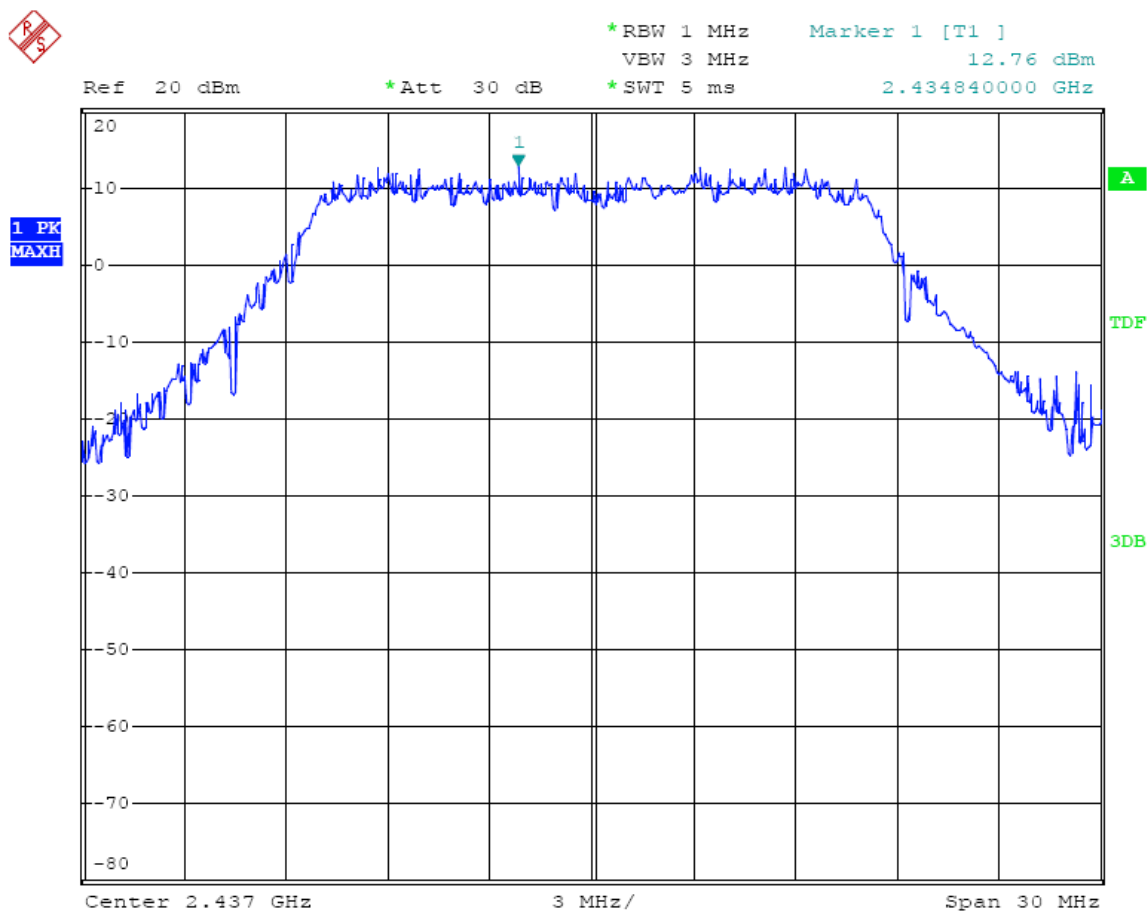
Date of Test:	November 11-12, 2008	Temperature:	25°C
EUT:	Cogent Multifunction Fingerprint Scanner	Humidity:	52%
Model No.:	Mobile Ident™ II	Power Supply:	DC 3.7V
Test Mode:	TX	Test Engineer:	Joe

Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	13.22	20.99	30 dBm / 1 W
Middle	2437	12.76	18.88	30 dBm / 1 W
High	2462	14.56	28.58	30 dBm / 1 W

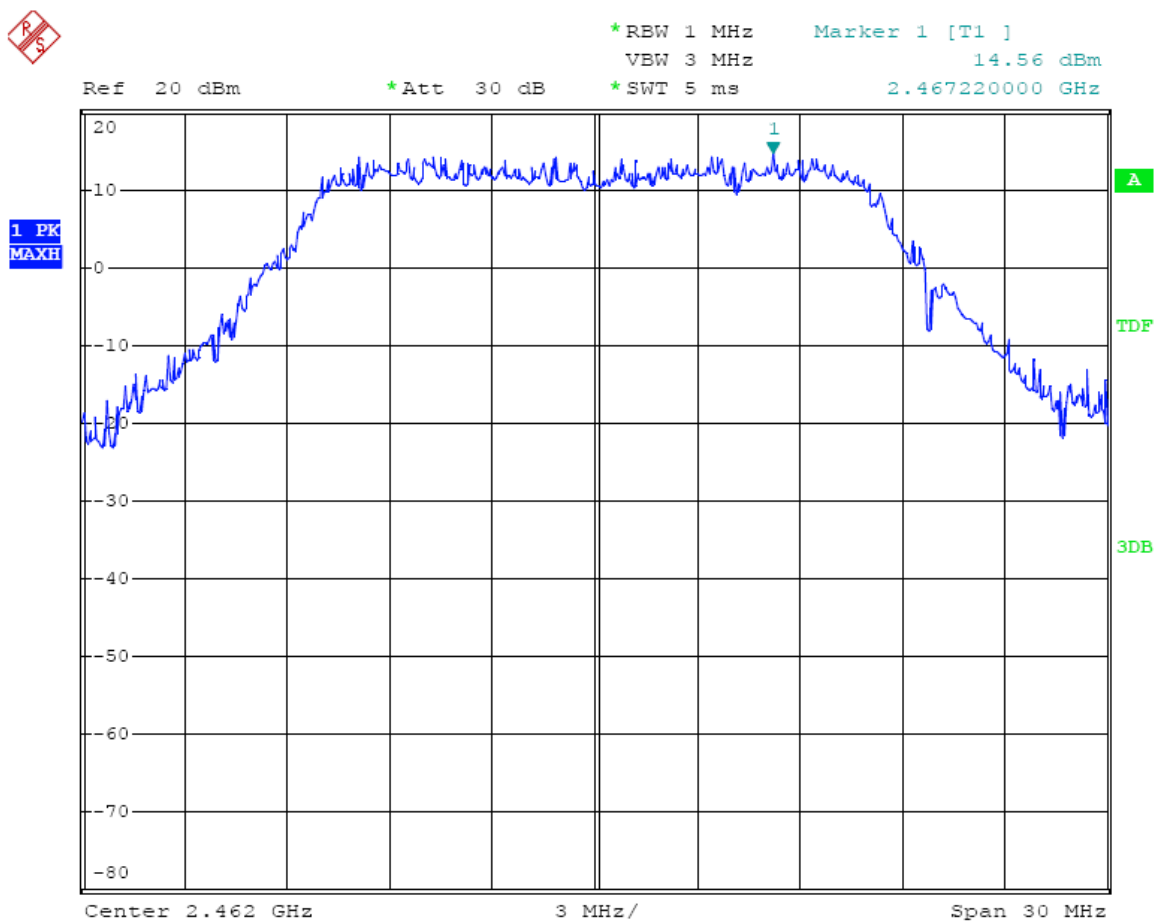
The spectrum analyzer plots are attached as below.



Date: 11.NOV.2008 14:00:59



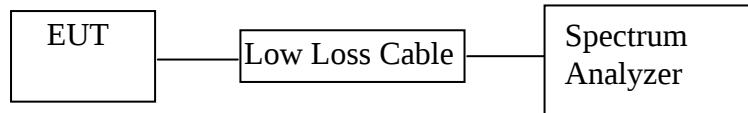
Date: 12.NOV.2008 10:19:06



Date: 12.NOV.2008 10:37:15

17. POWER SPECTRAL DENSITY MEASUREMENT (WI-FI)

17.1. Block Diagram of Test Setup



(EUT: Cogent Multifunction Fingerprint Scanner)

17.2. The Requirement For Section 15.247(e)

Section 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

17.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

17.3.1. Cogent Multifunction Fingerprint Scanner (EUT)

Model Number	:	Mobile Ident™ II
Serial Number	:	N/A
Manufacturer	:	COGENT SYSTEMS, INC.

17.4. Operating Condition of EUT

17.4.1. Setup the EUT and simulator as shown as Section 17.1.

17.4.2. Turn on the power of all equipment.

17.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

17.5. Test Procedure

17.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

17.5.2. Set RBW of spectrum analyzer to 3kHz and VBW to 3kHz, sweep time = Span/3kHz.

17.5.3. Measurement the maximum power spectral density.

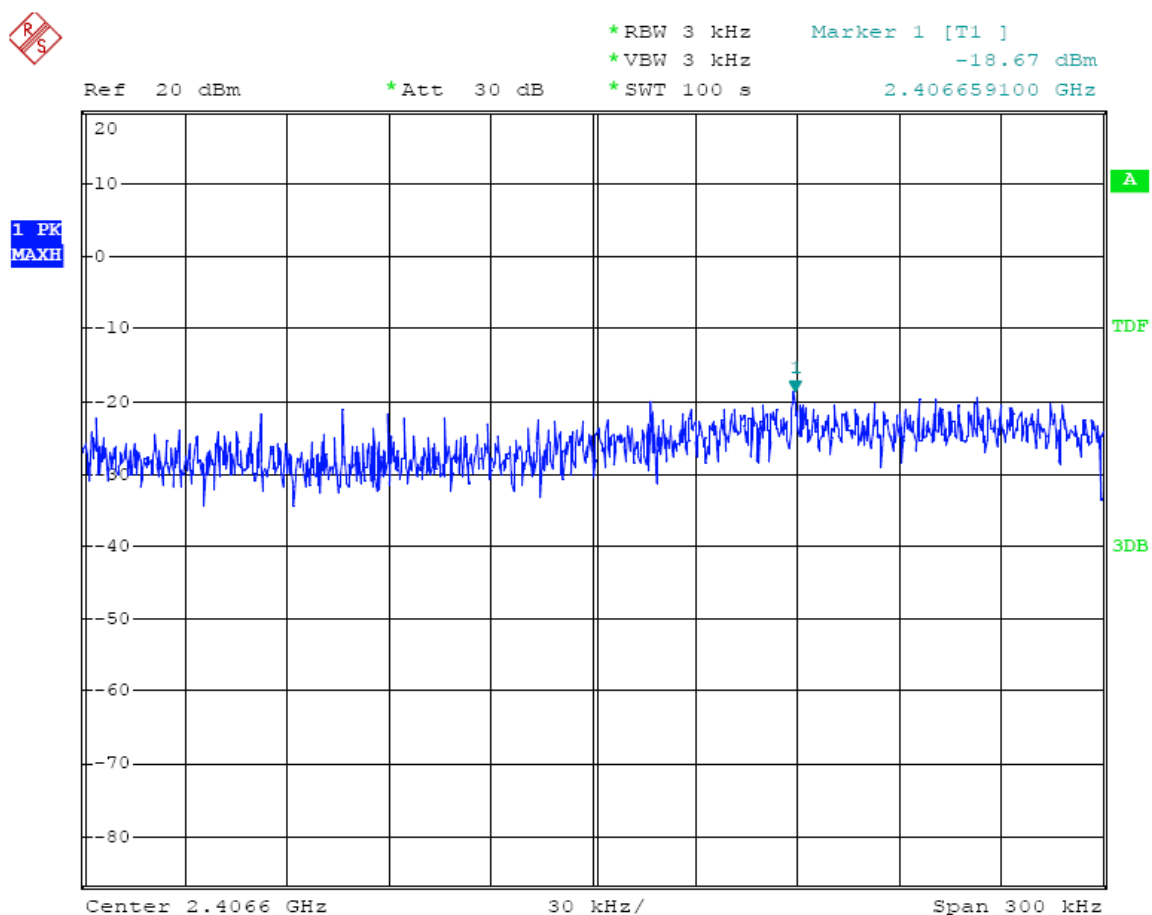
17.6. Test Result

PASS.

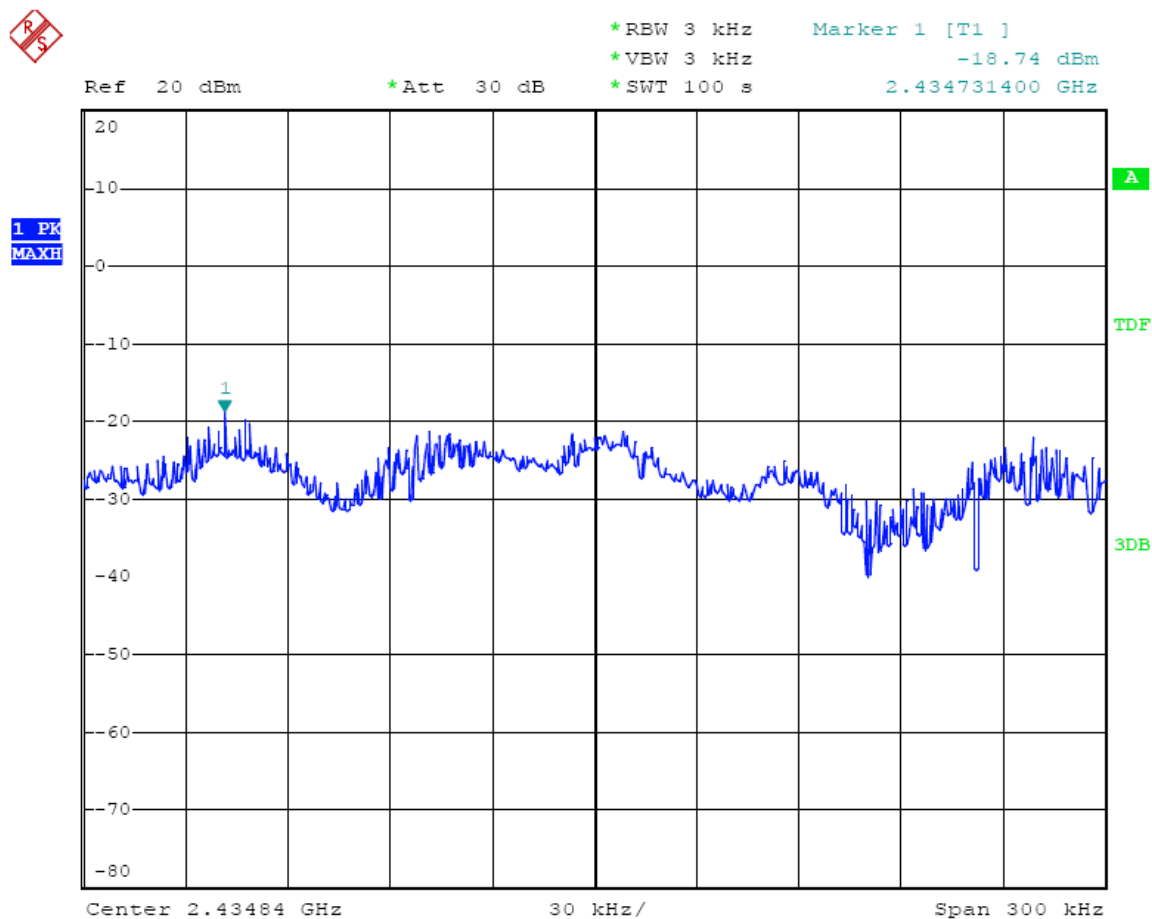
Date of Test:	November 11-12, 2008	Temperature:	25°C
EUT:	Cogent Multifunction Fingerprint Scanner	Humidity:	52%
Model No.:	Mobile Ident™ II	Power Supply:	DC 3.7V
Test Mode:	TX	Test Engineer:	Joe

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-18.67	8 dBm
Middle	2437	-18.74	8 dBm
High	2462	-18.33	8 dBm

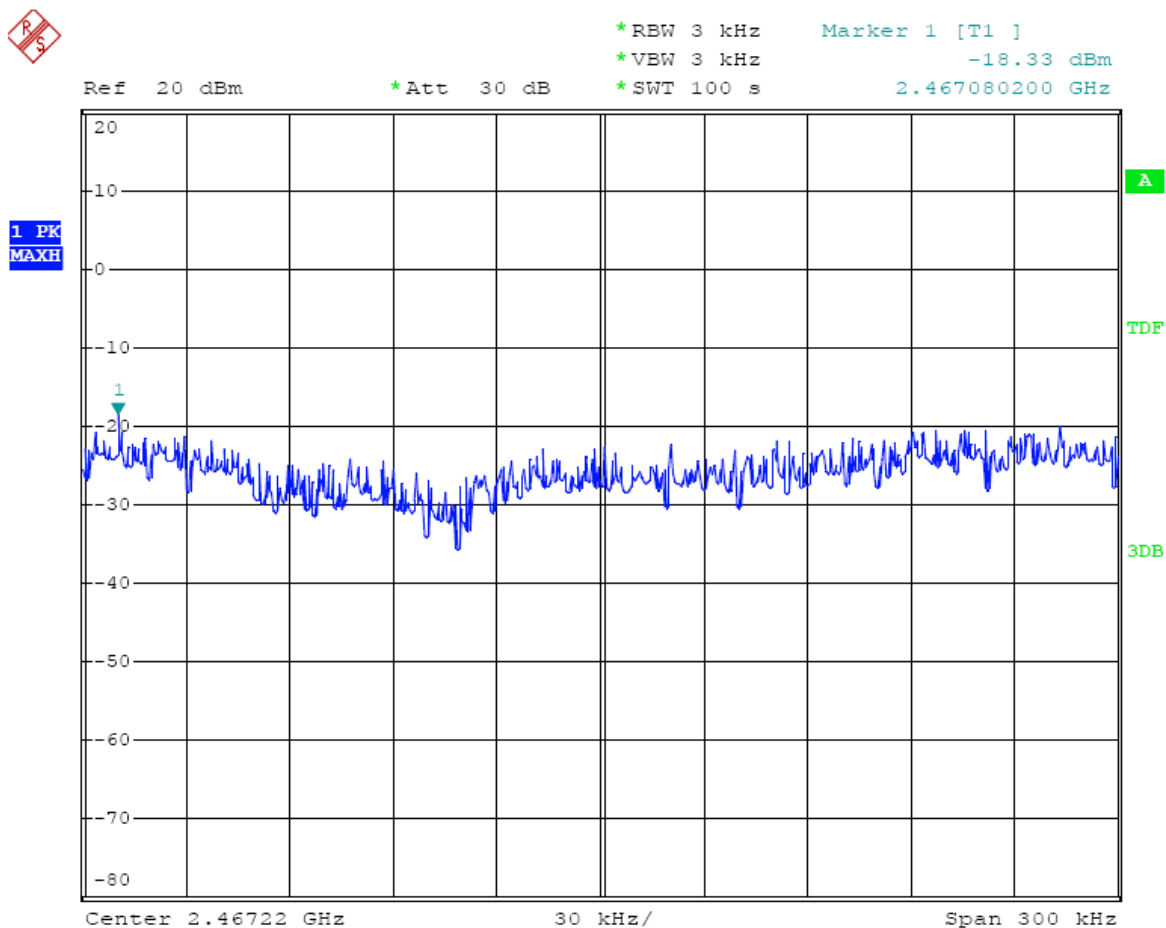
The spectrum analyzer plots are attached as below.



Date: 11.NOV.2008 14:39:32



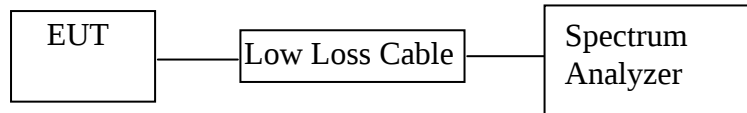
Date: 12.NOV.2008 15:53:35



Date: 12.NOV.2008 11:04:36

18.BAND EDGE COMPLIANCE TEST (WI-FI)

18.1.Block Diagram of Test Setup



(EUT: Cogent Multifunction Fingerprint Scanner)

18.2.The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

18.3.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

18.3.1.Cogent Multifunction Fingerprint Scanner (EUT)

Model Number	:	Mobile Ident™ II
Serial Number	:	N/A
Manufacturer	:	COGENT SYSTEMS, INC.

18.4.Operating Condition of EUT

18.4.1.Setup the EUT and simulator as shown as Section 18.1.

18.4.2.Turn on the power of all equipment.

18.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2462MHz TX frequency to transmit.

18.5.Test Procedure

18.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

18.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz with convenient frequency span.

18.5.3.The band edges was measured and recorded.

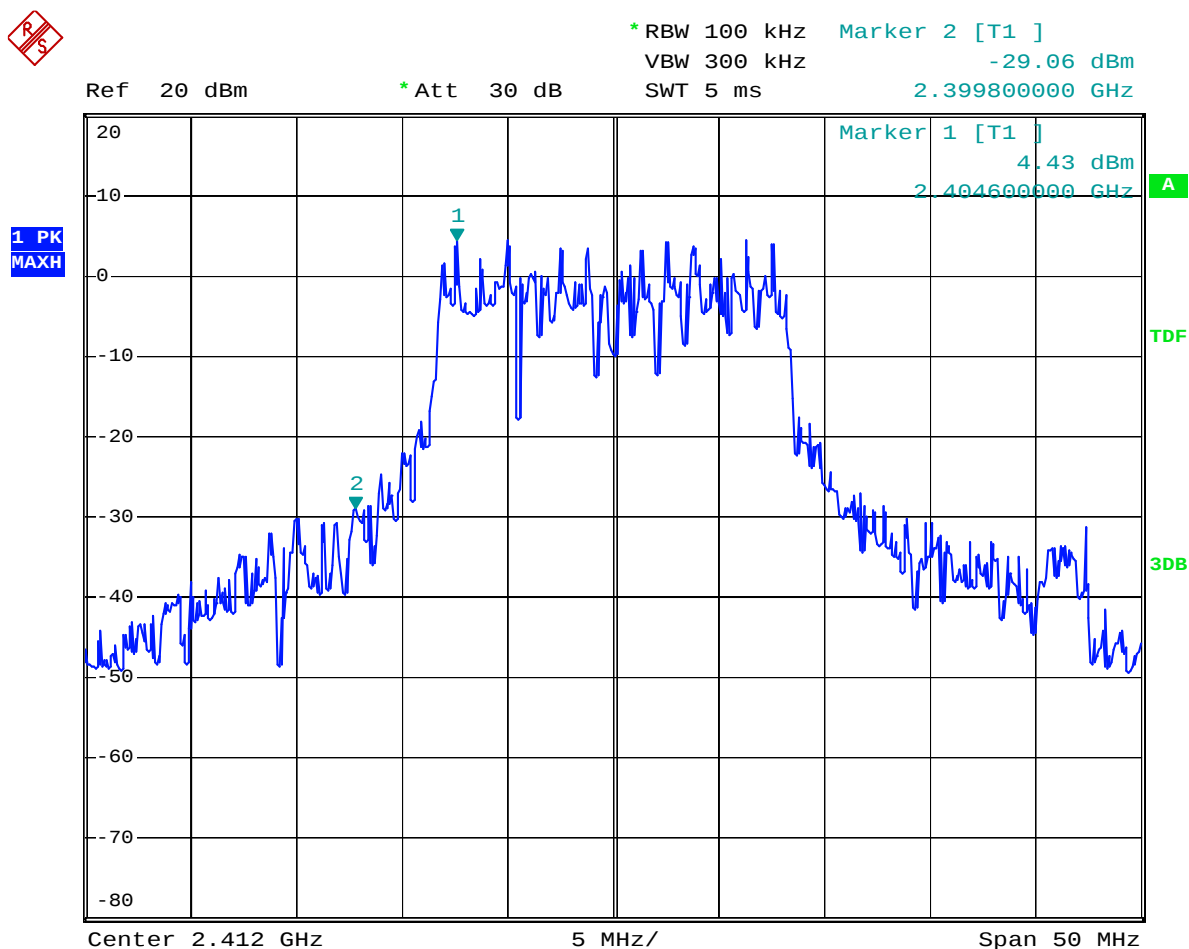
18.6. Test Result

Pass

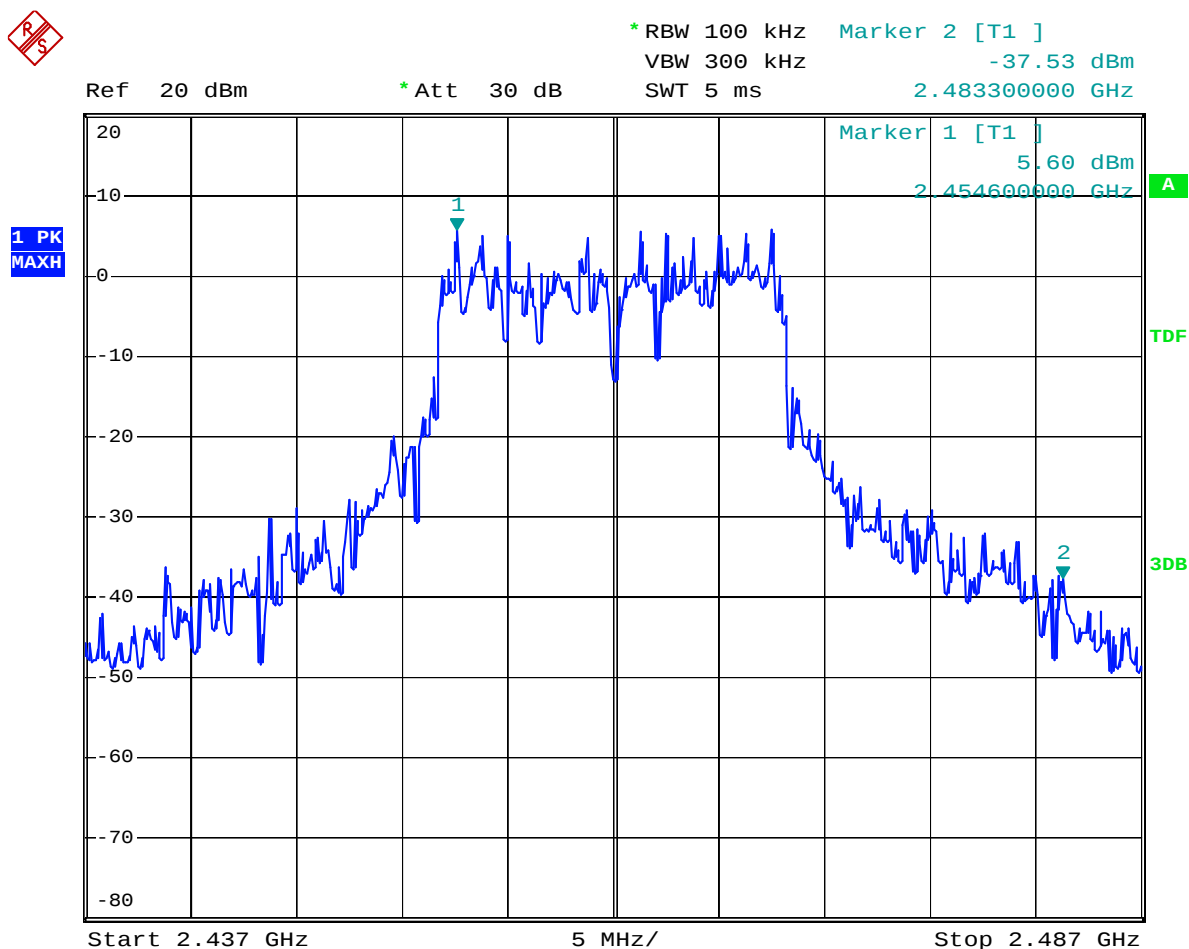
Date of Test:	<u>November 12, 2008</u>	Temperature:	<u>25°C</u>
EUT:	<u>Cogent Multifunction Fingerprint Scanner</u>	Humidity:	<u>52%</u>
Model No.:	<u>Mobile Ident™ II</u>	Power Supply:	<u>DC 3.7V</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Joe</u>

Conducted test

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	33.49	> 20dBc
2462	43.13	> 20dBc



Date: 12.NOV.2008 17:40:07

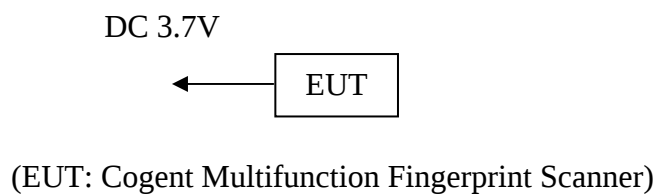


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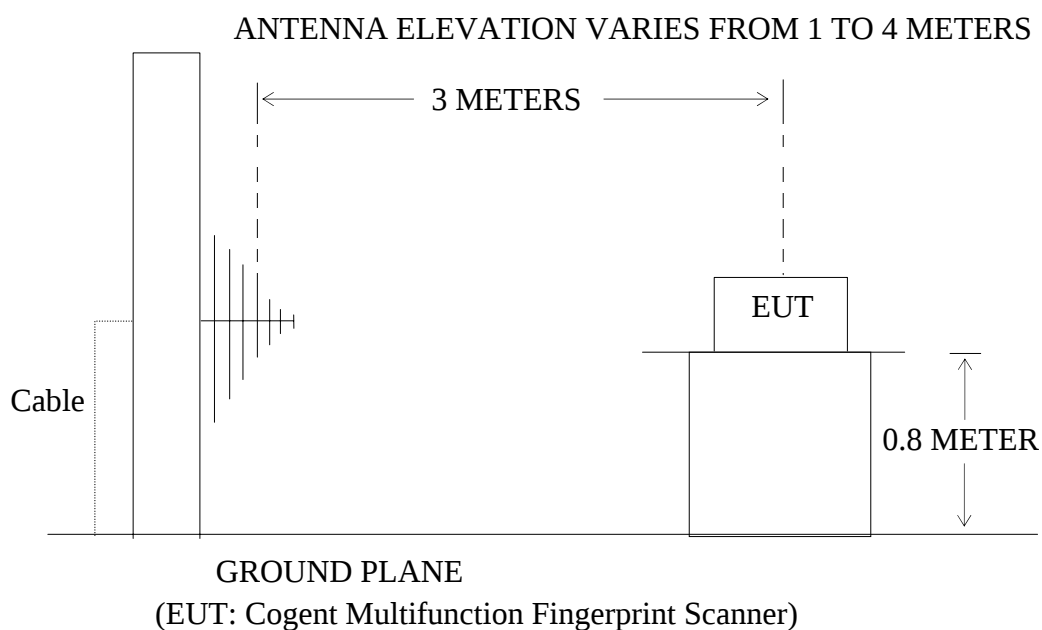
19.RADIATED EMISSION TEST (WI-FI)

19.1.Block Diagram of Test Setup

19.1.1.Block diagram of connection between the EUT and simulators



19.1.2.Anechoic Chamber Test Setup Diagram



19.2.The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

19.3.Restricted bands of operation

19.3.1.FCC Part 15.205 Restricted bands of operation

(c) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

(d) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

19.4.Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

19.4.1.Cogent Multifunction Fingerprint Scanner (EUT)

Model Number : Mobile Ident™ II
 Serial Number : N/A
 Manufacturer : COGENT SYSTEMS, INC.

19.5.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver is set at 120KHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 25000MHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

19.6.The Field Strength of Radiation Emission Measurement Results

PASS.

Date of Test:	November 3-7, 2008	Temperature:	25°C
EUT:	Cogent Multifunction Fingerprint Scanner	Humidity:	52%
Model No.:	Mobile Ident™ II	Power Supply:	DC 3.7V
Test Mode:	Wi-Fi TX 2412MHz	Test Engineer:	Joe

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
299.9932	20.59	18.66	39.25	46.00	-6.75	Vertical
499.9979	18.10	23.99	42.09	46.00	-3.91	Vertical
699.9934	14.02	26.50	40.52	46.00	-5.48	Vertical
330.4624	17.50	19.77	37.27	46.00	-8.73	Horizontal
744.8155	10.01	27.55	37.56	46.00	8.44	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2400.000	57.83	61.10	-7.46	50.37	53.64	54	74	-3.63	-20.36	Vertical
2410.801	91.20	94.61	-7.43	83.77	87.18	-	-	-	-	Vertical
*4821.602	49.88	53.48	-0.19	49.69	53.29	54	74	-4.31	-20.71	Vertical
7232.403	45.10	48.66	3.04	48.14	51.70	54	74	-5.86	-22.30	Vertical
2400.000	57.19	60.55	-7.46	49.73	53.09	54	74	-4.27	-20.91	Horizontal
2410.801	90.71	94.10	-7.43	83.28	86.67	-	-	-	-	Horizontal
*4821.602	50.91	54.28	-0.19	50.72	54.09	54	74	-3.28	-19.91	Horizontal
7232.403	44.62	48.23	3.04	47.66	51.27	54	74	-6.34	-22.73	Horizontal

Note: 1.The emission emitted by the EUT is too low to be measured except the emission listed above.

2. *: Denotes restricted band of operation.

Date of Test:	November 3-7, 2008	Temperature:	25°C
EUT:	Cogent Multifunction Fingerprint Scanner	Humidity:	52%
Model No.:	Mobile Ident™ II	Power Supply:	DC 3.7V
Test Mode:	Wi-Fi TX 2437MHz	Test Engineer:	Joe

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
299.9932	21.08	18.66	39.74	46.00	-6.26	Vertical
499.9979	18.76	23.99	42.75	46.00	-3.25	Vertical
699.9934	13.94	26.50	40.44	46.00	-5.56	Vertical
322.8306	19.25	19.46	38.71	46.00	-7.29	Horizontal
499.9979	14.43	23.99	38.42	46.00	-7.58	Horizontal
744.8155	12.63	27.55	40.18	46.00	-5.82	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2435.800	91.29	94.74	-7.37	83.92	87.37	-	-	-	-	Vertical
*4871.601	49.61	53.04	0.09	49.70	53.13	54	74	-4.30	-20.87	Vertical
*7307.401	44.90	48.46	3.21	48.11	51.67	54	74	-5.89	-22.33	Vertical
2435.800	90.88	94.27	-7.37	83.51	86.90	-	-	-	-	Horizontal
*4871.601	50.08	53.71	0.09	50.17	53.80	54	74	-3.83	-20.20	Horizontal
*7307.401	45.08	48.55	3.21	48.29	51.76	54	74	-5.71	-22.24	Horizontal

Note: 1.The emission emitted by the EUT is too low to be measured except the emission listed above.**2. *: Denotes restricted band of operation.**

Date of Test:	November 3-7, 2008	Temperature:	25°C
EUT:	Cogent Multifunction Fingerprint Scanner	Humidity:	52%
Model No.:	Mobile Ident™ II	Power Supply:	DC 3.7V
Test Mode:	Wi-Fi TX 2462MHz	Test Engineer:	Joe

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
299.9982	18.06	18.66	36.72	46.00	-9.28	Vertical
499.9979	15.06	23.99	39.05	46.00	-6.95	Vertical
328.1553	17.03	19.68	36.71	46.00	-9.29	Horizontal
899.2853	9.84	28.78	38.62	46.00	-7.38	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2460.801	93.53	96.90	-7.34	86.19	89.56	-	-	-	-	Vertical
2483.500	50.58	53.91	-7.37	43.21	46.54	54	74	-10.79	-27.46	Vertical
*4921.601	49.47	52.93	0.34	49.81	53.27	54	74	-4.19	-20.73	Vertical
*7382.402	44.50	48.18	3.38	47.88	51.56	54	74	-6.12	-22.44	Vertical
2460.801	91.79	95.38	-7.34	84.45	88.04	-	-	-	-	Horizontal
2483.500	49.19	52.42	-7.37	41.82	45.05	54	74	-12.18	-28.95	Horizontal
*4921.601	49.79	53.98	0.34	50.13	54.32	54	74	-3.87	-19.68	Horizontal
*7382.402	45.11	48.97	3.38	48.49	52.35	54	74	-5.51	-21.65	Horizontal

Note: 1.The emission emitted by the EUT is too low to be measured except the emission listed above.**2. *: Denotes restricted band of operation.**


ACCURATE TECHNOLOGY CO., LTD.

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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: COGENT #62

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Wi-Fi TX 2412MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 08/11/03/

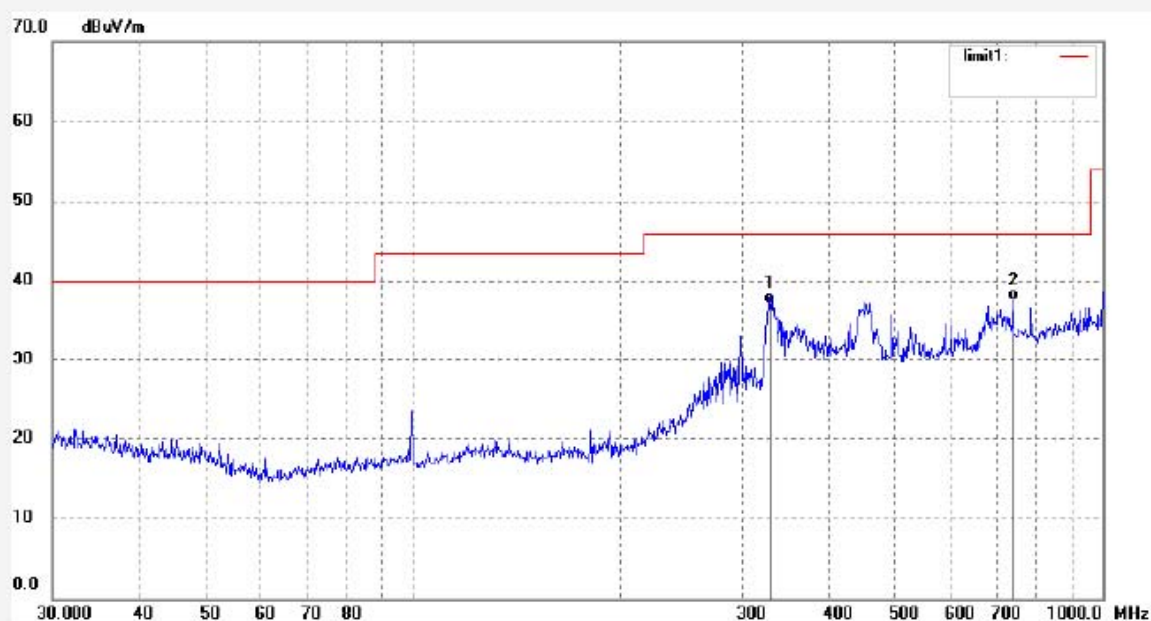
Time: 11/53/56

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	330.4624	17.50	19.77	37.27	46.00	-8.73	QP	
2	744.8155	10.01	27.55	37.56	46.00	-8.44	QP	



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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: COGENT #61

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Wi-Fi TX 2412MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 08/11/03/

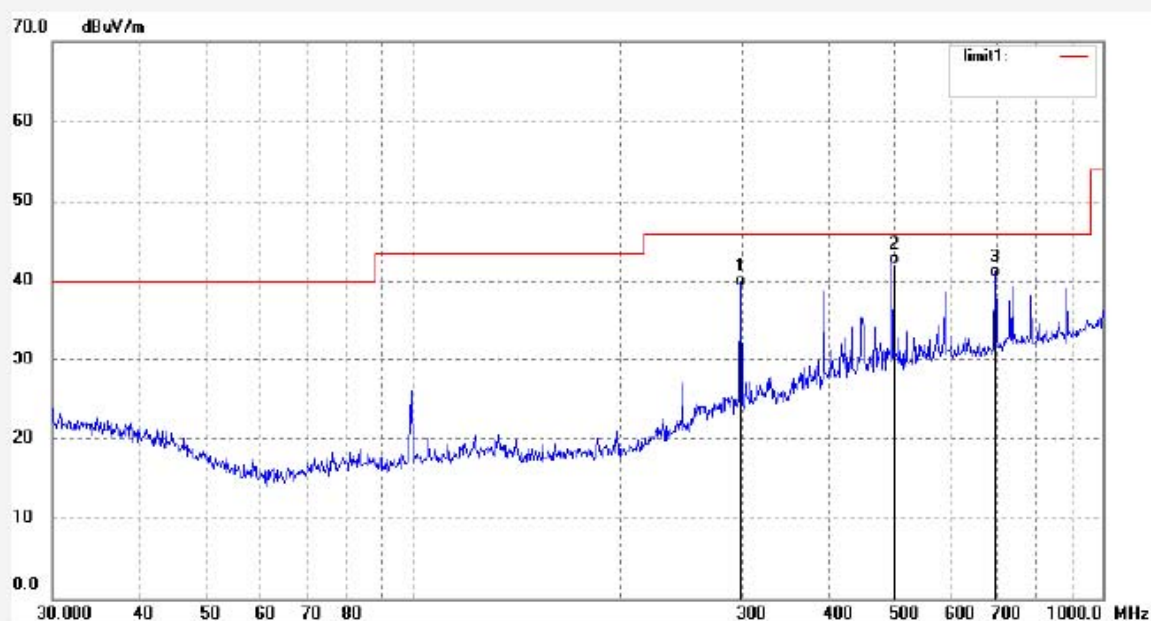
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Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	299.9932	20.59	18.66	39.25	46.00	-6.75	QP	
2	499.9979	18.10	23.99	42.09	46.00	-3.91	QP	
3	699.9934	14.02	26.50	40.52	46.00	-5.48	QP	



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Site: 966 chamber
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Fax:+86-0755-26503396

Job No.: COGENT #93

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Wi-Fi TX 2412MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 2008/11/07

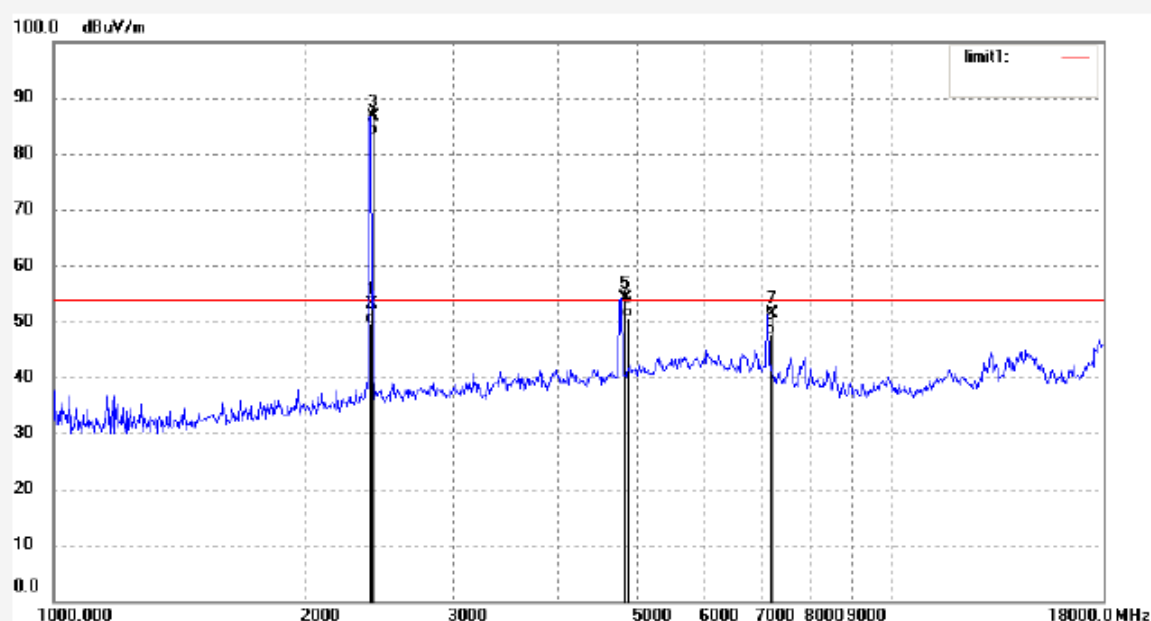
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Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2400.000	60.55	-7.46	53.09	74.00	-20.91	peak	
2	2400.000	57.19	-7.46	49.73	54.00	-4.27	AVG	
3	2410.801	94.10	-7.43	86.67	-	-	peak	
4	2410.801	90.71	-7.43	83.28	-	-	AVG	
5	4821.602	54.28	-0.19	54.09	74.00	-19.91	peak	
6	4821.602	50.91	-0.19	50.72	54.00	-3.28	AVG	
7	7232.403	48.23	3.04	51.27	74.00	-22.73	peak	
8	7232.403	44.62	3.04	47.66	54.00	-6.34	AVG	


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Job No.: COGENT #94

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Wi-Fi TX 2412MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 2008/11/07

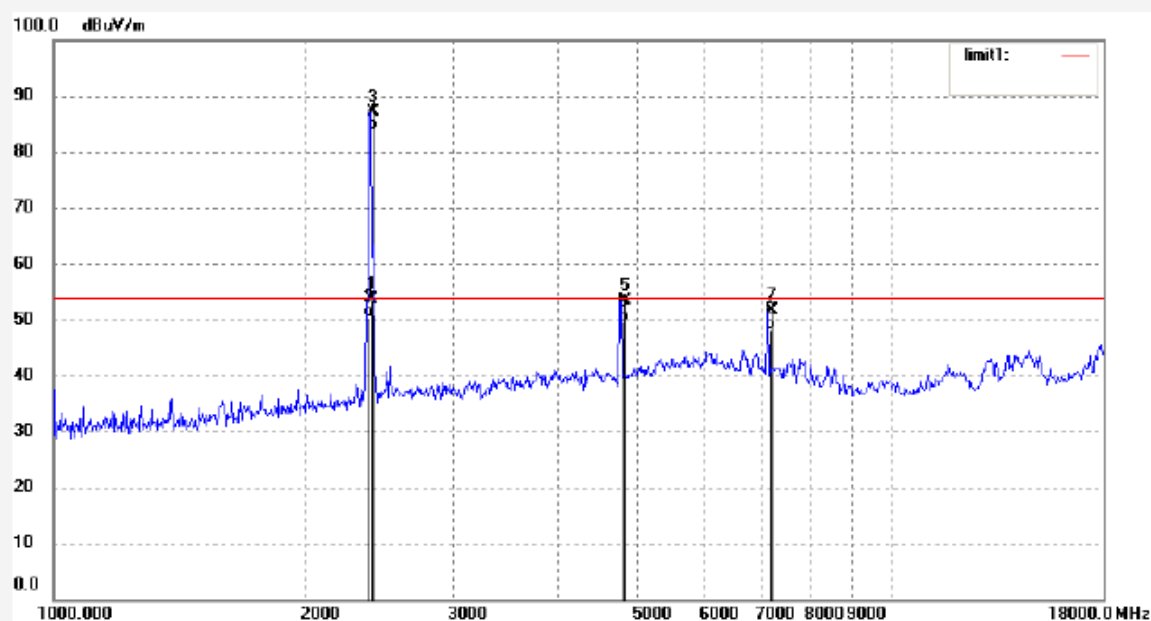
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Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2400.000	61.10	-7.46	53.64	74.00	-20.36	peak	
2	2400.000	57.83	-7.46	50.37	54.00	-3.63	AVG	
3	2410.801	94.61	-7.43	87.18	-	-	peak	
4	2410.801	91.20	-7.43	83.77	-	-	AVG	
5	4821.602	53.48	-0.19	53.29	74.00	-20.71	peak	
6	4821.602	49.88	-0.19	49.69	54.00	-4.31	AVG	
7	7232.403	48.66	3.04	51.70	74.00	-22.30	peak	
8	7232.403	45.10	3.04	48.14	54.00	-5.86	AVG	


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 Site: 966 chamber
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 Fax:+86-0755-26503396

Job No.: COGENT #83

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Wi-Fi TX 2412MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 2008/11/07

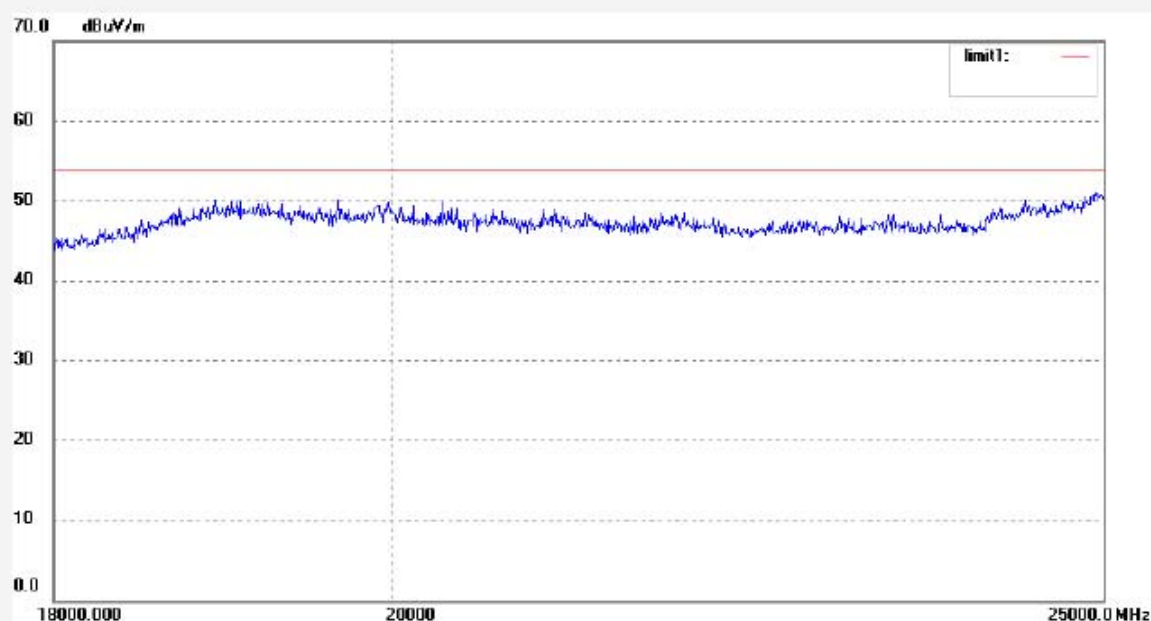
Time: 14:15:04

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
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 Site: 966 chamber
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 Fax:+86-0755-26503396

Job No.: COGENT #84

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Wi-Fi TX 2412MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 2008/11/07

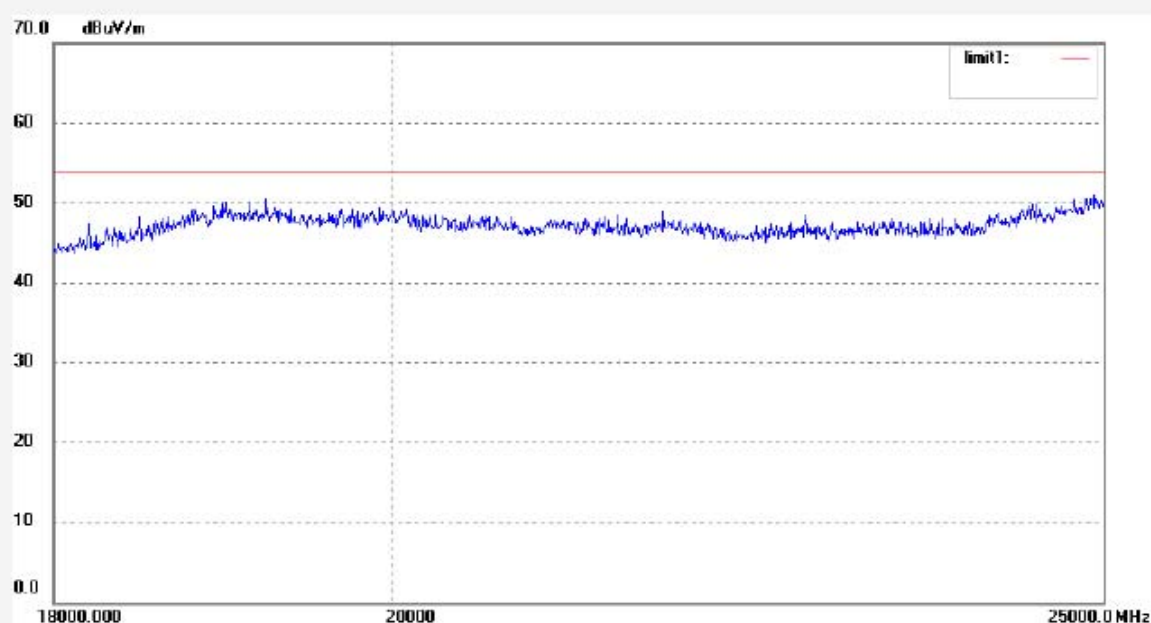
Time: 14:17:54

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: COGENT #58

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Wi-Fi TX 2437MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 08/11/03/

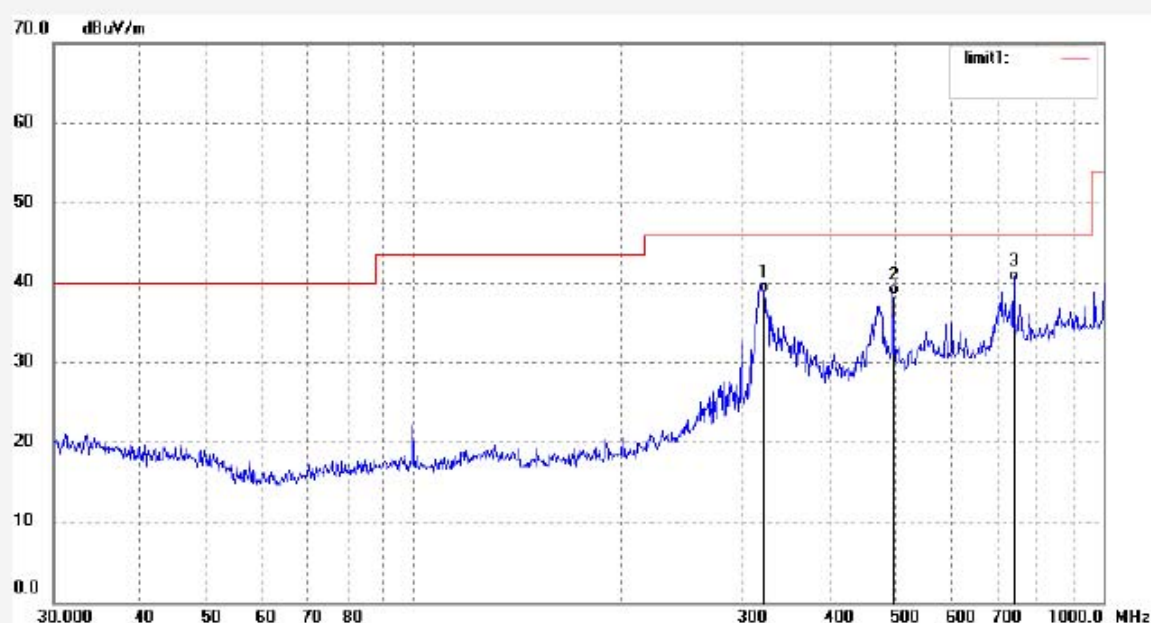
Time: 11/36/32

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	322.8306	19.25	19.46	38.71	46.00	-7.29	QP	
2	499.9979	14.43	23.99	38.42	46.00	-7.58	QP	
3	744.8155	12.63	27.55	40.18	46.00	-5.82	QP	


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: COGENT #56

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Wi-Fi TX 2437MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 08/11/03/

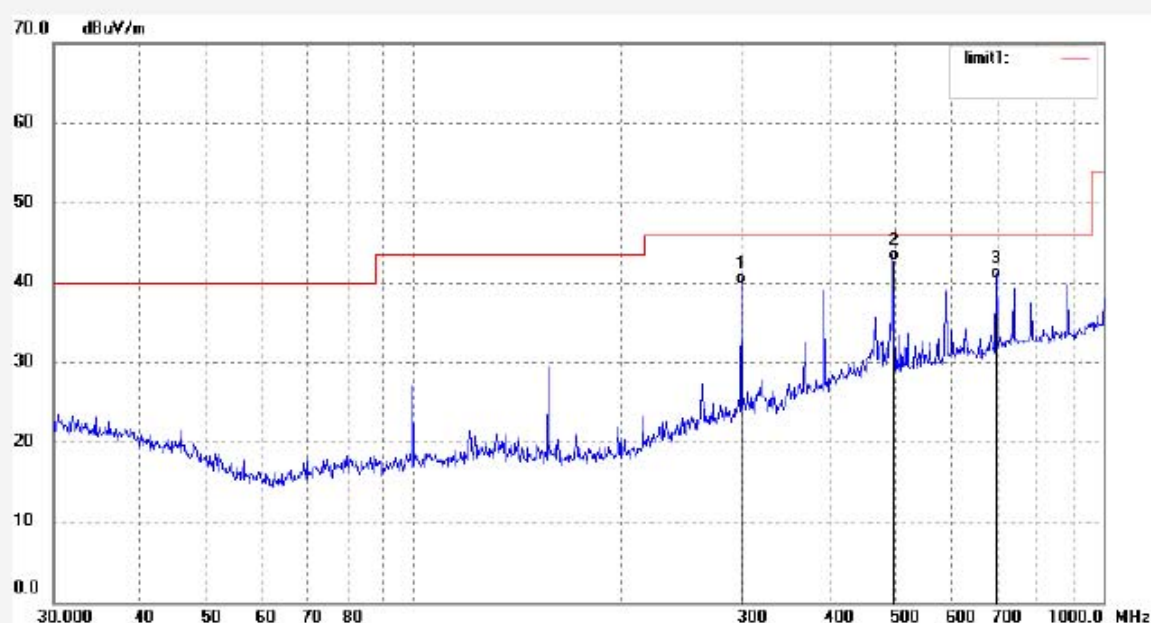
Time: 11/27/27

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	299.9932	21.08	18.66	39.74	46.00	-6.26	QP	
2	499.9979	18.76	23.99	42.75	46.00	-3.25	QP	
3	699.9934	13.94	26.50	40.44	46.00	-5.56	QP	


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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: COGENT #92

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Wi-Fi TX 2437MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 2008/11/07

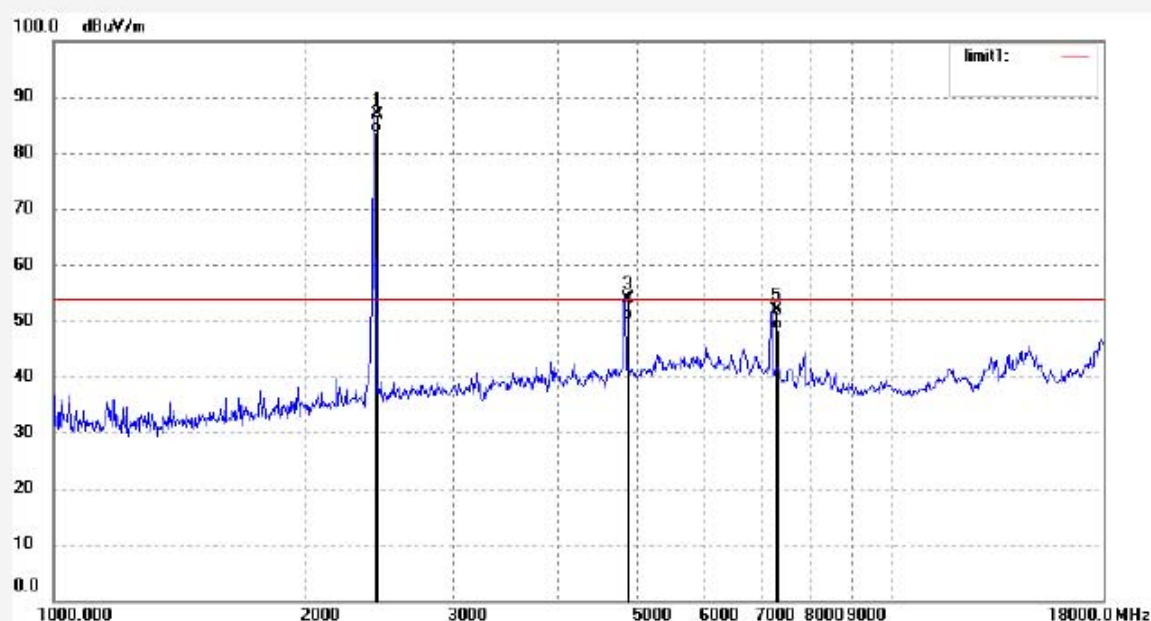
Time: 16:36:50

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2435.800	94.27	-7.37	86.90	-	-	peak	
2	2435.800	90.88	-7.37	83.51	-	-	AVG	
3	4871.601	53.71	0.09	53.80	74.00	-20.20	peak	
4	4871.601	50.08	0.09	50.17	54.00	-3.83	AVG	
5	7307.401	48.55	3.21	51.76	74.00	-22.24	peak	
6	7307.401	45.08	3.21	48.29	54.00	-5.71	AVG	


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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: COGENT #91

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Wi-Fi TX 2437MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 2008/11/07

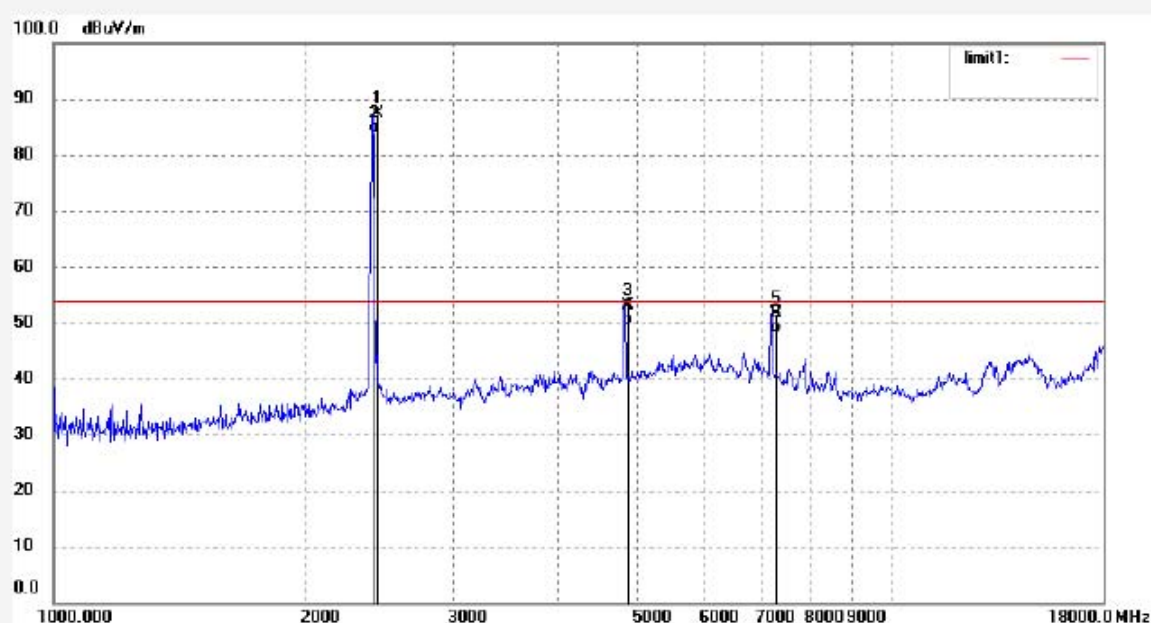
Time: 16:32:02

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2435.800	94.74	-7.37	87.37	-	-	peak	
2	2435.800	91.29	-7.37	83.92	-	-	AVG	
3	4871.601	53.04	0.09	53.13	74.00	-20.87	peak	
4	4871.601	49.61	0.09	49.70	54.00	-4.30	AVG	
5	7307.401	48.46	3.21	51.67	74.00	-22.33	peak	
6	7307.401	44.90	3.21	48.11	54.00	-5.89	AVG	

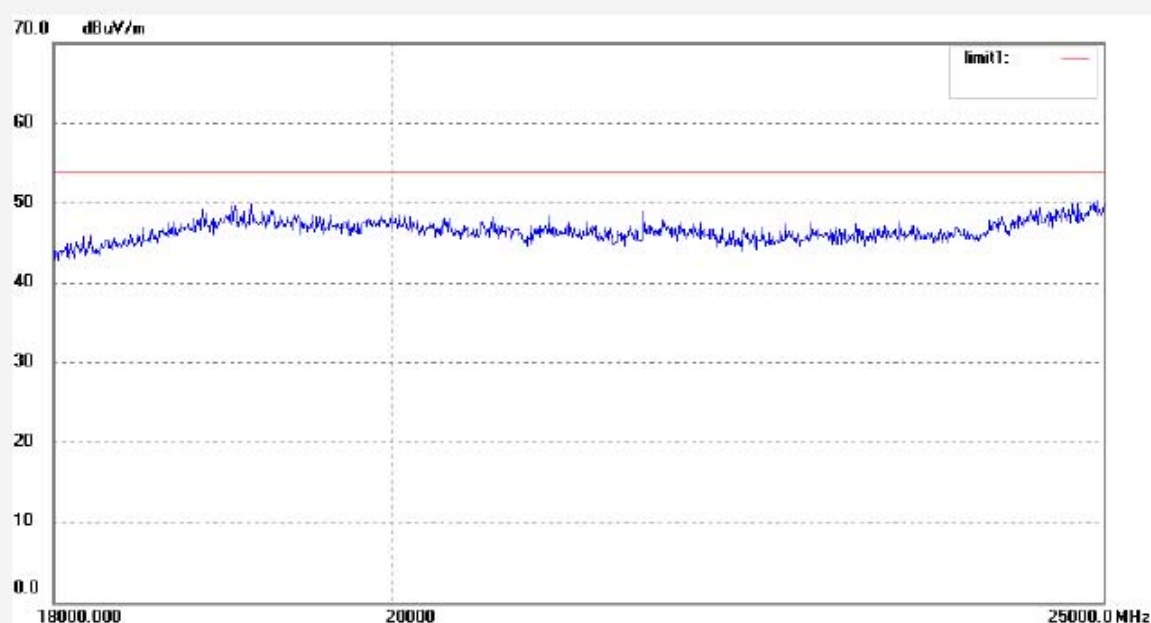

ACCURATE TECHNOLOGY CO., LTD.

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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: COGENT #86	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2008/11/07
Temp.(C)/Hum.(%) 25 C / 52 %	Time: 14:25:46
EUT: Cogent Multifunction Fingerprint Scanner	Engineer Signature: Joe
Mode: Wi-Fi TX 2437MHz	Distance: 3m
Model: Mobile Ident II	
Manufacturer: COGENT	

Note: Sample No.:083992 Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: COGENT #85

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Wi-Fi TX 2437MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 2008/11/07

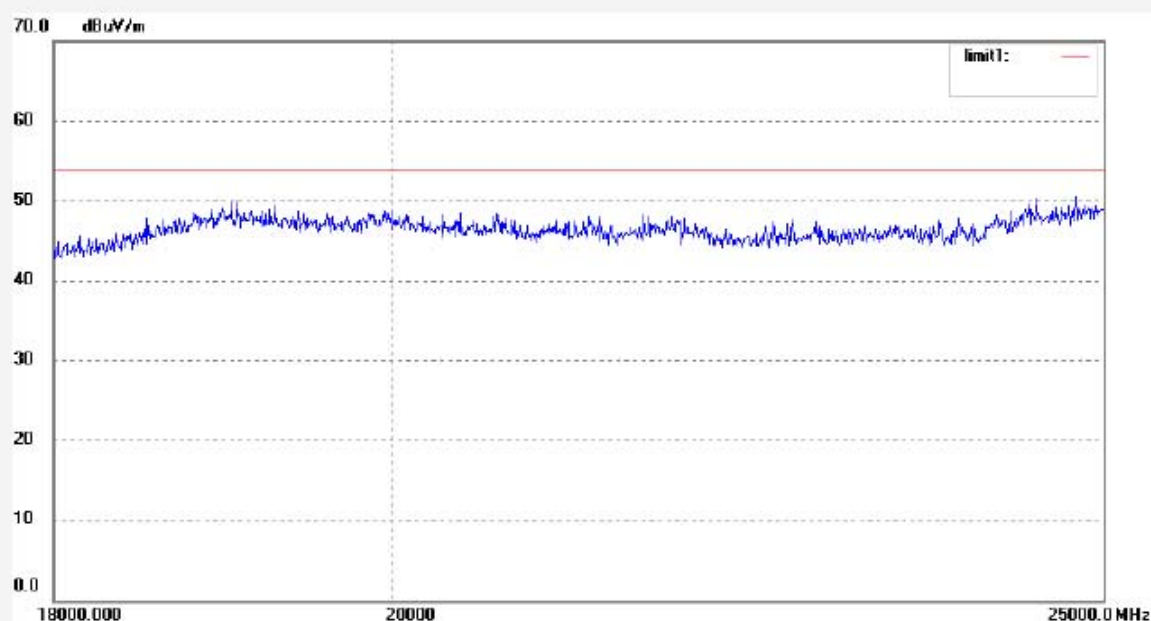
Time: 14:22:00

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: COGENT #53

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Wi-Fi TX 2462MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 08/11/03/

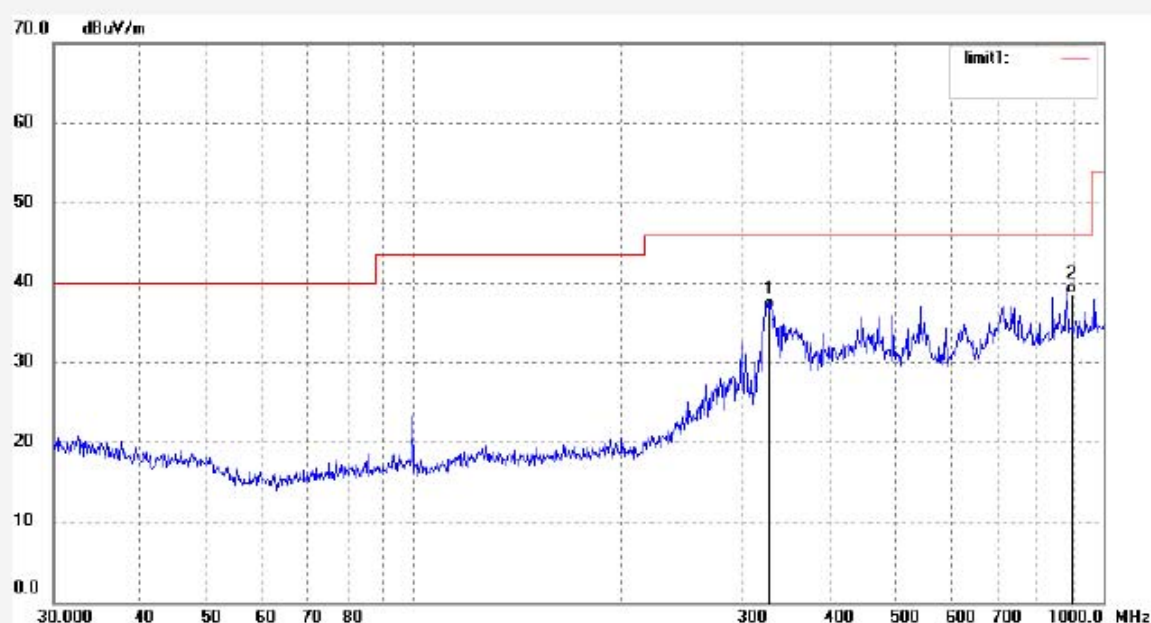
Time: 10/51/38

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	328.1553	17.03	19.68	36.71	46.00	-9.29	QP	
2	899.2853	9.84	28.78	38.62	46.00	-7.38	QP	


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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: COGENT #52

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Wi-Fi TX 2462MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 08/11/03/

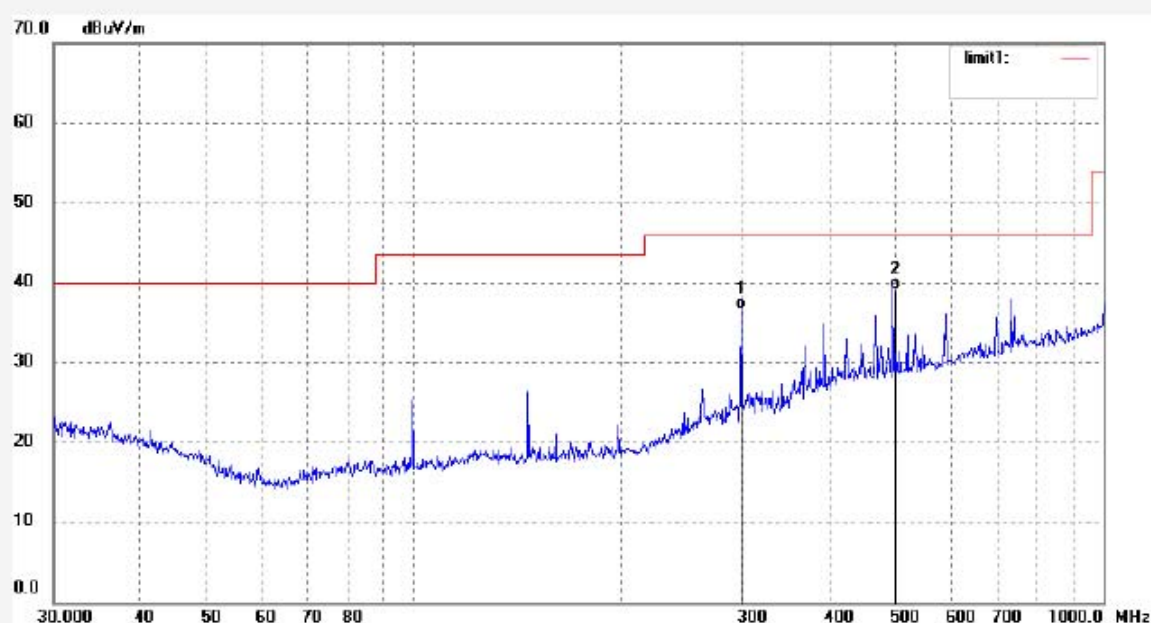
Time: 10/49/57

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	299.9982	18.06	18.66	36.72	46.00	-9.28	QP	
2	499.9979	15.06	23.99	39.05	46.00	-6.95	QP	


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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: COGENT #89

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Wi-Fi TX 2462MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 2008/11/07

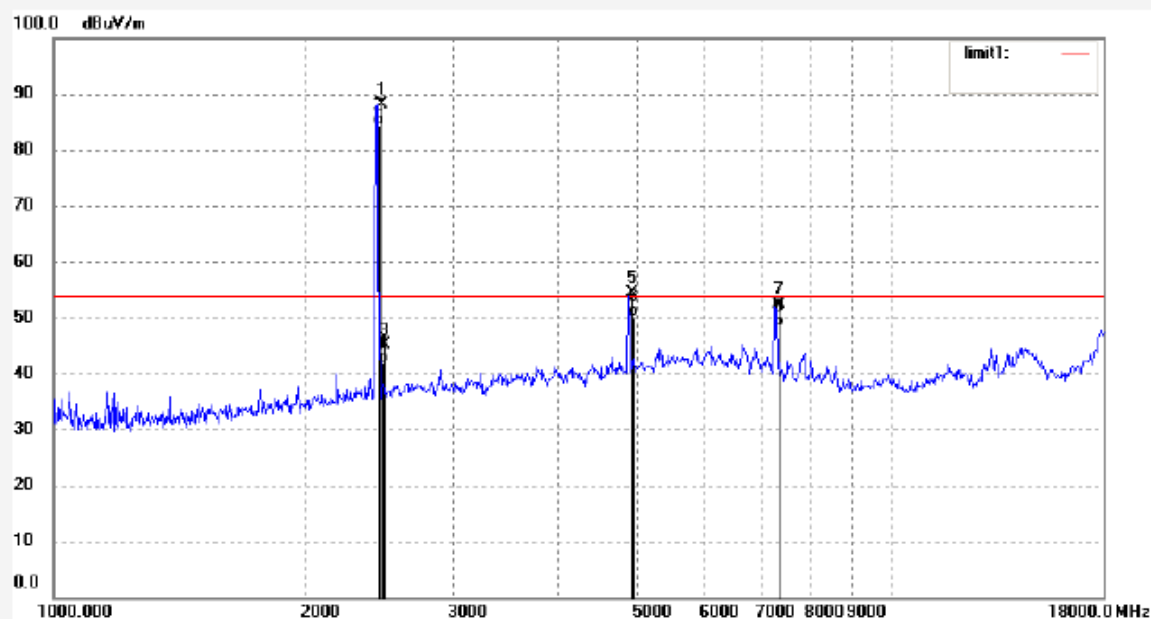
Time: 16:22:19

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2460.801	95.38	-7.34	88.04	-	-	peak	
2	2460.801	91.79	-7.34	84.45	-	-	AVG	
3	2483.500	52.42	-7.37	45.05	74.00	-28.95	peak	
4	2483.500	49.19	-7.37	41.82	54.00	-12.18	AVG	
5	4921.601	53.98	0.34	54.32	74.00	-19.68	peak	
6	4921.601	49.79	0.34	50.13	54.00	-3.87	AVG	
7	7382.402	48.97	3.38	52.35	74.00	-21.65	peak	
8	7382.402	45.11	3.38	48.49	54.00	-5.51	AVG	


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 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: COGENT #90

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Wi-Fi TX 2462MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 2008/11/07

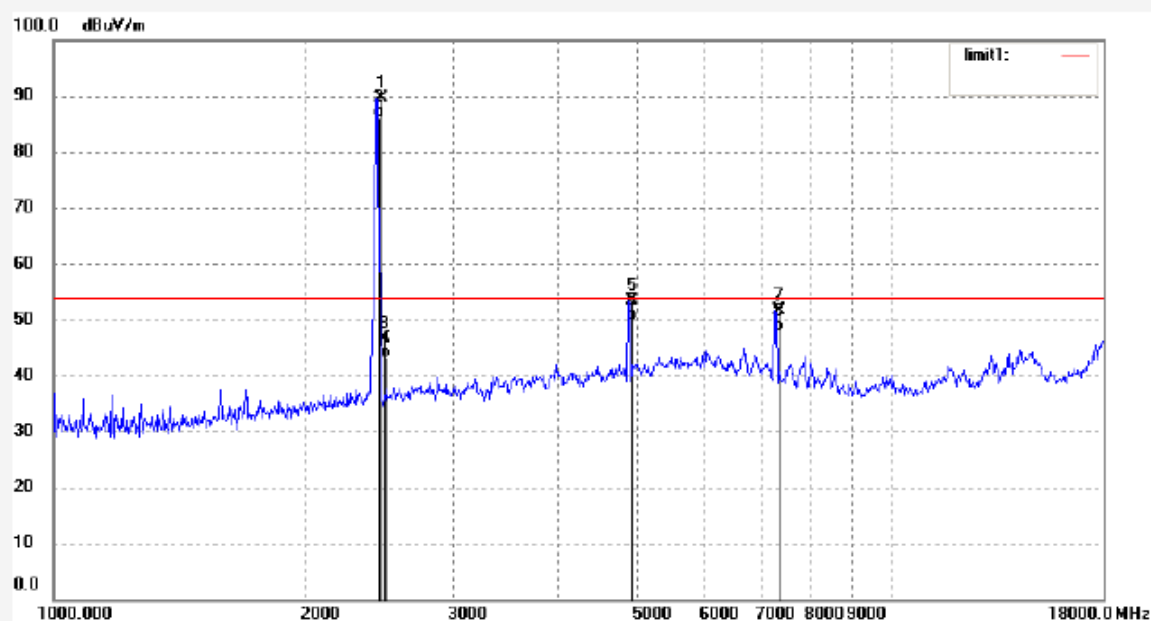
Time: 16:25:46

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2460.801	96.90	-7.34	89.56	-	-	peak	
2	2460.801	93.53	-7.34	86.19	-	-	AVG	
3	2483.500	53.91	-7.37	46.54	74.00	-27.46	peak	
4	2483.500	50.58	-7.37	43.21	54.00	-10.79	AVG	
5	4921.601	52.93	0.34	53.27	74.00	-20.73	peak	
6	4921.601	49.47	0.34	49.81	54.00	-4.19	AVG	
7	7382.402	48.18	3.38	51.56	74.00	-22.44	peak	
8	7382.402	44.50	3.38	47.88	54.00	-6.12	AVG	


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: COGENT #87

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Wi-Fi TX 2462MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Horizontal

Power Source: DC 3.7V

Date: 2008/11/07

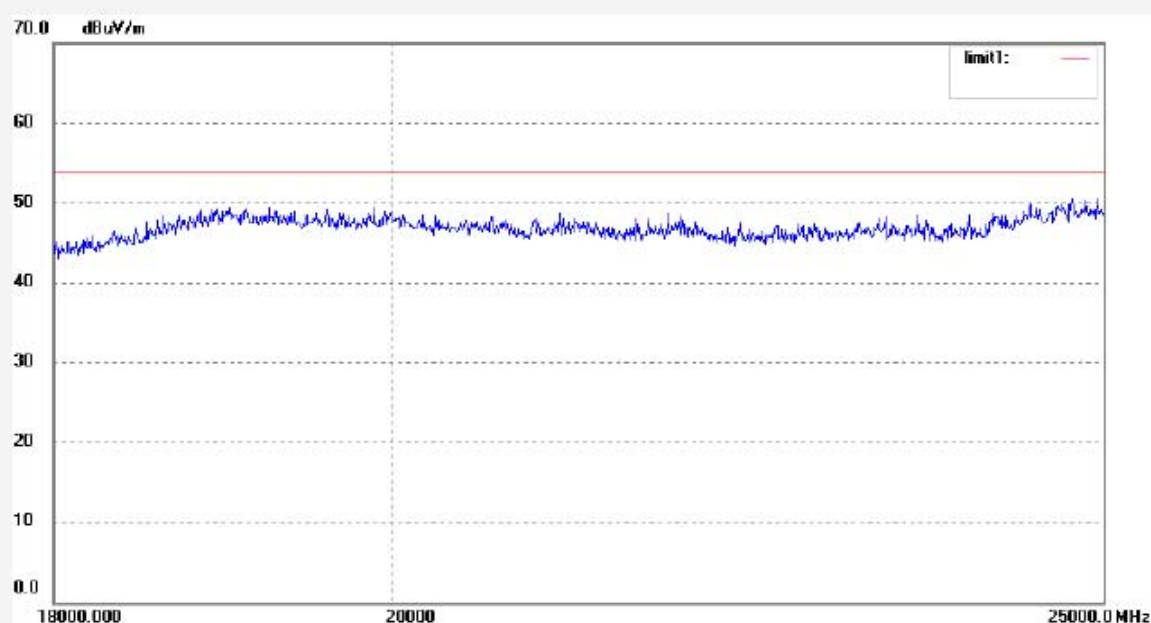
Time: 14:30:29

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: COGENT #88

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 52 %

EUT: Cogent Multifunction Fingerprint Scanner

Mode: Wi-Fi TX 2462MHz

Model: Mobile Ident II

Manufacturer: COGENT

Polarization: Vertical

Power Source: DC 3.7V

Date: 2008/11/07

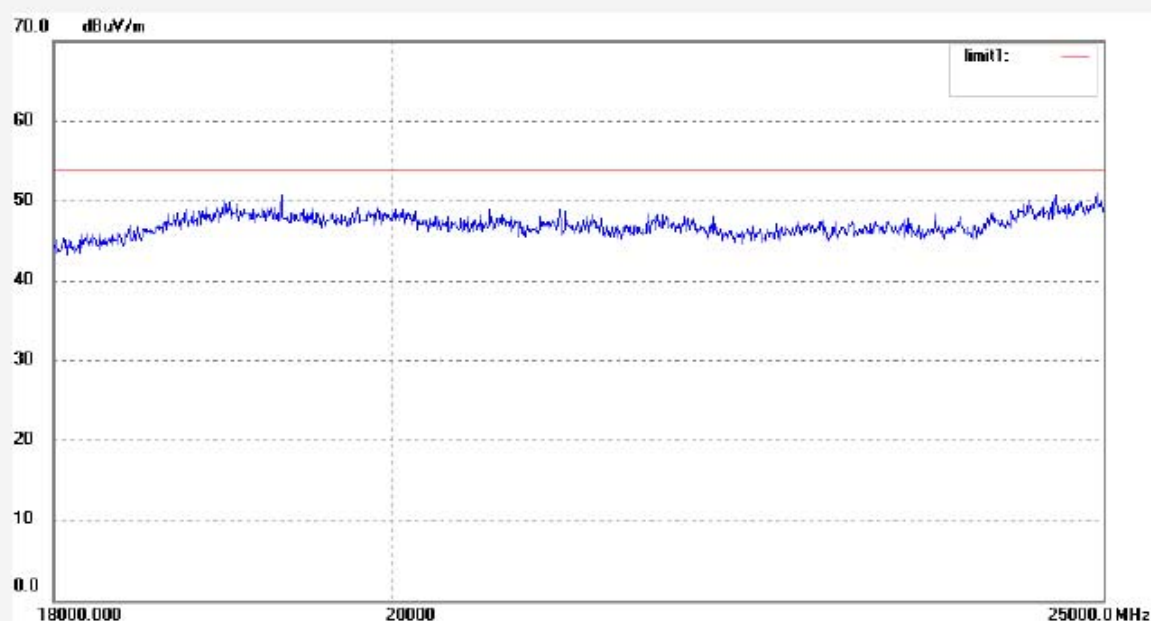
Time: 14:32:34

Engineer Signature: Joe

Distance: 3m

Note: Sample No.:083992

Report No.:ATE20082130



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
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20.ANTENNA REQUIREMENT (WI-FI)

20.1.The Requirement

According to Section 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.

20.2.Antenna Construction

The transmitter utilizes SMD chip antenna, no consideration of replacement. Therefore, the equipment complies with the antenna requirement of Section 15.203.