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EMI REPORT (DoC)

Nokia, Inc.

12278 Scripps Summit Drive, San Diego, CA
92131

Date of Issue: November 20, 2007

Test Report No.: HCT-F07-1004-1

Test Site: HCT CO., LTD.

MODEL:

RM-347

Classification/ Standard(s):	FCC PART 15 Subpart B / CISPR 22 CLASS B RSS-Gen Issue2, RSS-129 Issue2, RSS-133 Issue3
Equipment (EUT) Type:	Dual-band CDMA/EVDO Phone with Bluetooth
Trade Name/Model(s):	Nokia, Inc. / RM-347
Port/ Connector(s):	DC Input Port/ Signal Port
FCC listing no:	90661
IC recognition no:	IC 5944A

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2003.(See Test Report if any modifications were made for compliance)

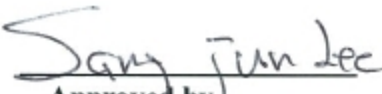
I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

HCT certifies that no party to application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse of 1988, 21 U.S.C.853(a).


Report prepared by

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Test engineer of EMC Tech.Part


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1. GENERAL INFORMATION

1.1 Product Description

The Nokia, Inc. RM-347 Dual-band CDMA/EVDO Phone with Bluetooth. Its basic purpose is used for communications. It transmits from CDMA 835 (824.7 – 848.31) MHz, PCS1900 (1851.25 – 1908.75) MHz and receives from CDMA 835 (869.70 – 893.31) MHz, PCS1900 (1931.25 – 1988.75) MHz.

MODEL	RM-347
EUT No.	PART 15B: A00000011E6481: 5
EUT Type	Dual-band CDMA/EVDO Phone with Bluetooth
TX Frequency	824.70 – 848.31(CDMA 835) 1851.25 – 1908.75(PCS 1900)
RX Frequency	869.70 – 893.31(CDMA 835) 1931.25 – 1988.75(PCS 1900)
Channel	Middle 384(CDMA 835) Middle 600(PCS 1900)
Modulation	CDMA 835/ PCS 1900/ Bluetooth

1.2 Related Submittal(s) / Grant(s)

ORIGINAL SUBMITTAL ONLY

1.3 Tested System Details

The Model names for all equipment, plus descriptions used in the tested system (including inserted cards) are:

DEVICE TYPE	MANUFACTURER	MODEL NUMBER/ PART NUMBER	FCC ID / DoC	CONNECTED TO
Dual-band CDMA/EVDO Phone with Bluetooth	Nokia, Inc.	RM-347	RM-347	TA
Travel Adaptor	Astec	AC-6U	-	EUT
USB Cable	-	CA-101	-	EUT, PC
PC	DELL	OPTIPLEXGX620	-	EUT
Monitor	DELL	1704FPTt	-	PC
Mouse	DELL	MO56U0	-	PC
Keyboard	DELL	SK-8115	-	PC
Printer	H.P	C4569A	-	PC
Headset	-	HS-49	-	EUT

1.4 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (M)
Dual-band CDMA/EVDO Phone with Bluetooth (EUT)	DC In	N	N/A	1.8 (P)
	USB	Y	Y	1.2 (P, D)
PC	USB(Mouse)	N/A	Y	1.8(D)
	USB(Keyboard)	N/A	Y	1.8(D)
	D-Sub(Monitor)	N/A	Y	1.6(D)
	Parallel(Printer)	N/A	Y	1.8(D)
	AC In	N	Y	1.8(P)
Monitor	AC In	N	N/A	1.8(P)
Printer	AC In	N	N/A	1.8(P)

The marked "(D)" means the Data Cable and "(P)" means the Power Cable.

1.5 Noise Suppression Parts on Cable. (I/O CABLE)

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
Dual-band CDMA/EVDO Phone with Bluetooth (EUT)	DC-In	N	-	Y	EUT end
	USB	N	-	Y	Both end
PC	D-Sub	Y	Both end	Y	Both end
	USB(Keyboard)	N	-	Y	PC end
	USB(Mouse)	N	-	Y	PC end
	Parallel(Printer)	N	-	Y	Both end

1.6 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4/2003. Radiated testing was performed at an antenna to EUT distance of 3 meters.

1.7 Test Facility

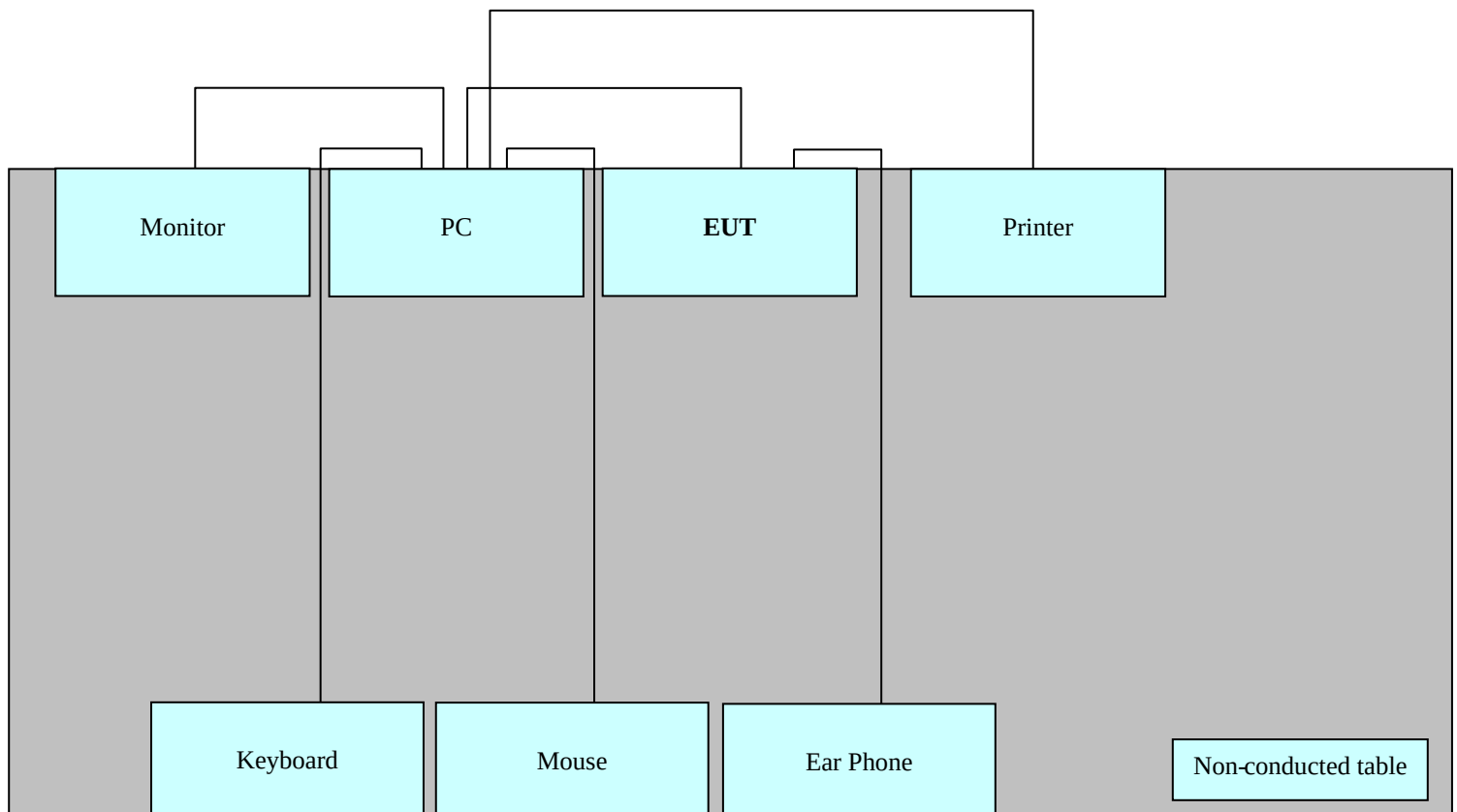
The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1, Maekok-Ri, Hobup-Myun, Ichon-Si, Kyongki-Do, 467-701, KOREA. The site is constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 6, 2006(Registration Number: 90661)

2.SYSTEM TEST CONFIGURATION

2.1 Configuration of Test system

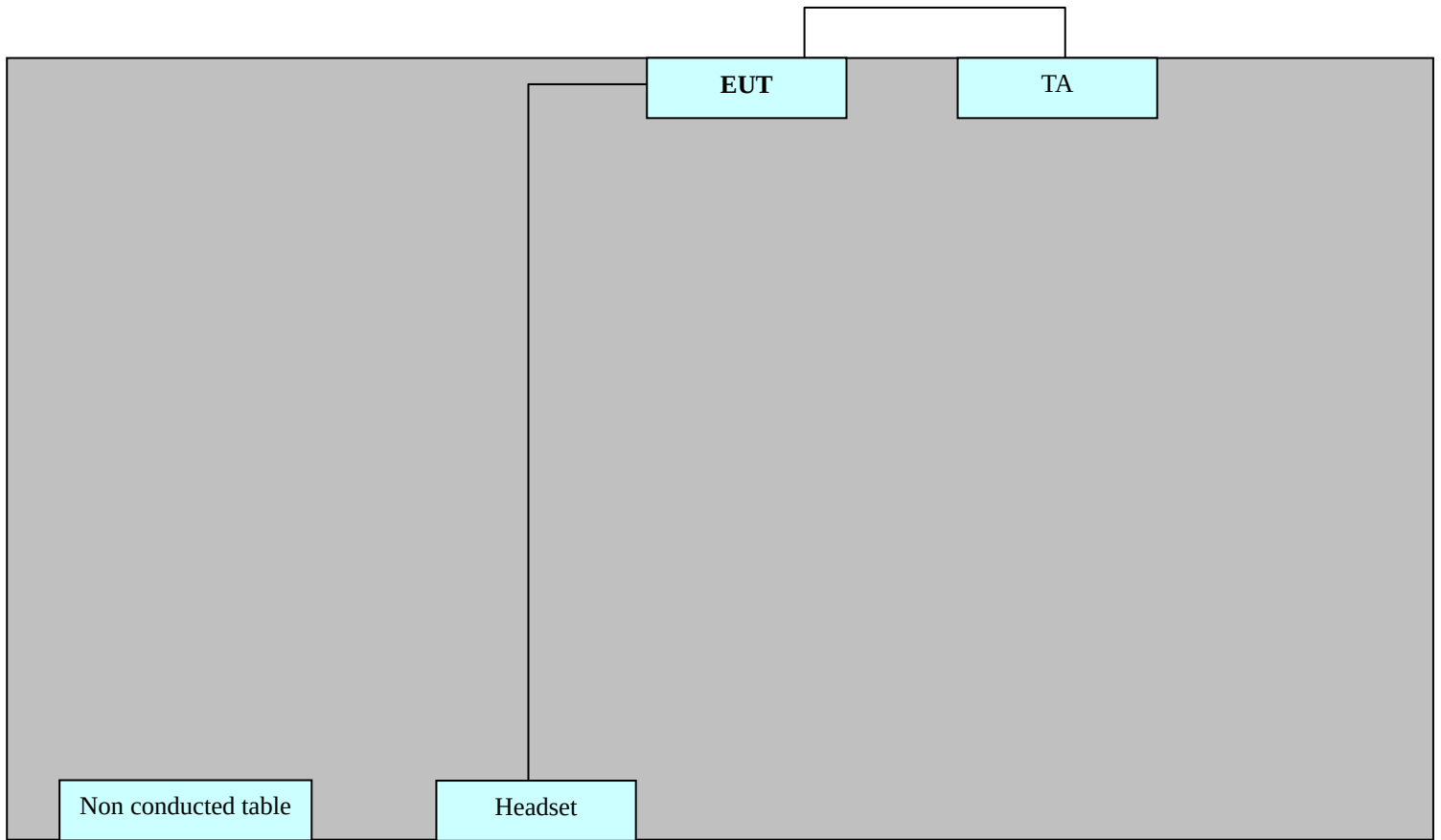
Line Conducted Test : EUT was connected to LISN, all other supporting equipment were Connected to another LISN. Preliminary Power line Conducted Emission tests were performed by using the procedure in ANSI C63.4/2003 7.2.3 to determine the worst operating conditions.

Radiated Emission Test : Preliminary Radiated Emission tests were performed by using the procedure in ANSI C63.4/2003 8.3.1.1 to determine the worst operating condition. Final Radiated Emission tests were performed at 3 meter open area test site.



Power Line: 110V AC

[Configuration of Data Communication Tested System]



Power Line: 110V AC

[Configuration of Tested System]

3. PRELIMINARY TEST

3.1 Conducted Emission Test

During Preliminary Tests, the following operating mode was investigated

Operation Mode	The worst operating condition
Idle (850,1900) Mode	
Camera Mode	
MP3 Mode	
Bluetooth	
Data Communication Mode	O

3. 2 Radiated Emission Test

During Preliminary Test, the Following operation mode was investigated

Operation Mode	The worst operating condition
Idle (850,1900) Mode	
Camera Mode	O
MP3 Mode	
Bluetooth	
Data Communication Mode	

4. CONDUCTED AND RADIATED EMISSION TESTS SUMMARY

4.1 Conducted Emission Test

The following table shows the highest levels of conducted emissions on both polarization of hot and neutral line.

Limit apply to	: CISPR 22 CLASS B
Result	: PASSED BY – 18.2 dB
Operating Condition	: Camera mode
Detector	: Quasi-Peak, Average (6 dB Bandwidth: 9 kHz)
Test Date	: 10.25. 2007
BATTERY	: NORMAL BATTERY

Power Line Conducted Emissions				FCC Class B	
Frequency (MHz)	Amplitude (dBuV)	Conductor	Result	Limit (dBuV)	Margin (dB)
0.1526	44.3	HOT	Quasi-Peak	66.0	-21.5
2.8600	24.5	HOT	Average	46.0	-21.5
0.1526	44.5	NEUTRAL	Quasi-Peak	66.0	-21.4
2.5500	27.8	NEUTRAL	Average	46.0	-18.2

Line Conducted Emissions Tabulated Data

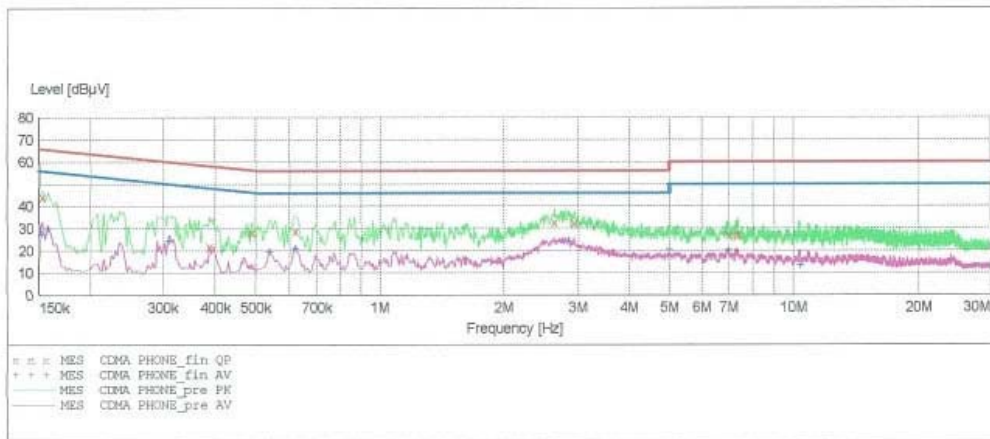
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EMC TEST LAB.

EUT: RM-347
Manufacturer: Nokia, Inc.
Operating Condition: CAMERA MODE
Test Site: SHIELD ROOM
Operator: DH-RYU
Test Specification: CISPR 22 CLASS B
Comment: H

SCAN TABLE: "CISPR 22 Voltage"

Short Description:			CISPR 22 Voltage				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
Frequency	Frequency	Width					
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None	
			Average				
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None	
			Average				
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None	
			Average				



MEASUREMENT RESULT: "CDMA PHONE_fin_QP"

10/25/2007 7:35PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.152600	44.30	10.0	66	21.5	---	---
0.387600	21.90	10.0	58	36.2	---	---
0.490100	28.20	10.1	56	28.0	---	---
0.620000	29.00	10.1	56	27.0	---	---
2.640000	32.90	10.4	56	23.1	---	---
2.940000	32.40	10.4	56	23.6	---	---
6.985000	27.00	10.9	60	33.0	---	---
7.315000	26.90	10.9	60	33.1	---	---
7.350000	27.60	10.9	60	32.4	---	---

MEASUREMENT RESULT: "CDMA PHONE_fin AV"

10/25/2007 7:35PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.152600	27.60	10.0	56	28.3	---	---
0.157600	30.10	10.0	56	25.5	---	---
0.310100	24.80	10.0	50	25.2	---	---
0.540000	19.90	10.1	46	26.1	---	---
0.620000	21.30	10.1	46	24.7	---	---
2.860000	24.50	10.4	46	21.5	---	---
5.000000	20.50	10.6	46	25.5	---	---
6.975000	20.60	10.9	50	29.4	---	---
10.420000	13.60	11.2	50	36.4	---	---

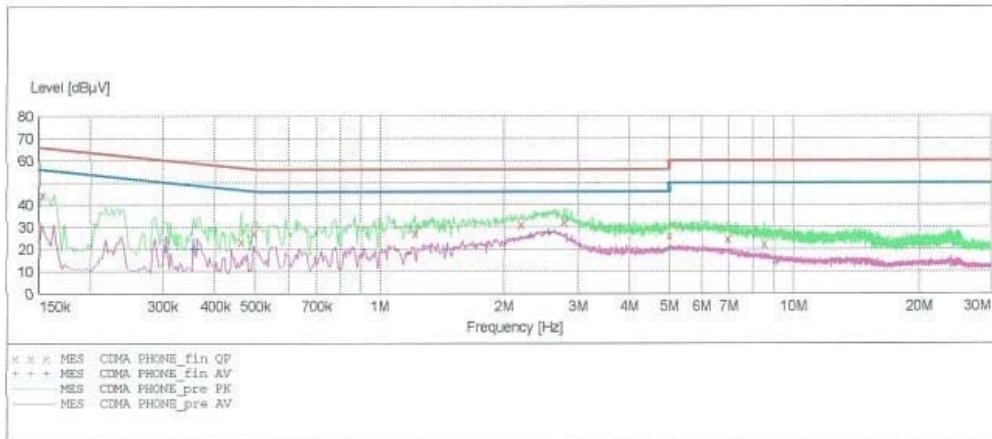
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EMC TEST LAB.

EUT: RM-347
Manufacturer: Nokia, Inc.
Operating Condition: CAMERA MODE
Test Site: SHIELD ROOM
Operator: DH-RYU
Test Specification: CISPR 22 CLASS B
Comment: N

SCAN TABLE: "CISPR 22 Voltage"

Short Description:		CISPR 22 Voltage					
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
Frequency	Frequency	Width					
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None	
			Average				
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None	
			Average				
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None	
			Average				



MEASUREMENT RESULT: "CDMA_PHONE_fin_QP"

10/25/2007 7:39PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.152600	44.50	10.0	66	21.4	---	---
0.462600	23.50	10.1	57	33.2	---	---
0.495100	27.50	10.1	56	28.6	---	---
1.215000	27.30	10.2	56	28.7	---	---
2.195000	31.30	10.3	56	24.7	---	---
2.780000	32.70	10.4	56	23.3	---	---
5.000000	26.50	10.6	56	29.5	---	---
6.935000	24.80	10.9	60	35.2	---	---
8.520000	22.30	11.0	60	37.7	---	---

MEASUREMENT RESULT: "CDMA PHONE_fin AV"

10/25/2007 7:39PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.305100	20.10	10.0	50	30.0	---	---
0.355100	20.60	10.0	49	28.3	---	---
0.362600	20.50	10.0	49	28.2	---	---
1.460000	20.30	10.2	46	25.7	---	---
2.315000	26.20	10.3	46	19.8	---	---
2.550000	27.80	10.4	46	18.2	---	---
5.000000	20.70	10.6	46	25.3	---	---
9.095000	14.00	11.1	50	36.0	---	---
23.945000	12.80	12.6	50	37.2	---	---

The following table shows the highest levels of conducted emissions on both polarization of hot and neutral line.

```

=====
Limit apply to      : CISPR 22 CLASS B
Result              : PASSED BY – 16.7 dB
Operating Condition : Camera mode
Detector            : Quasi-Peak, Average (6 dB Bandwidth: 9 kHz)
Test Date           : 11.09. 2007
BATTERY             : EXTENDED BATTERY
  
```

Power Line Conducted Emissions				FCC Class B	
Frequency (MHz)	Amplitude (dBuV)	Conductor	Result	Limit (dBuV)	Margin (dB)
2.7200	39.3	HOT	Quasi-Peak	56.0	-16.7
2.7250	27.4	HOT	Average	46.0	-18.6
2.9500	32.8	NEUTRAL	Quasi-Peak	56.0	-23.2
2.9500	20.0	NEUTRAL	Average	46.0	-26.0

Line Conducted Emissions Tabulated Data

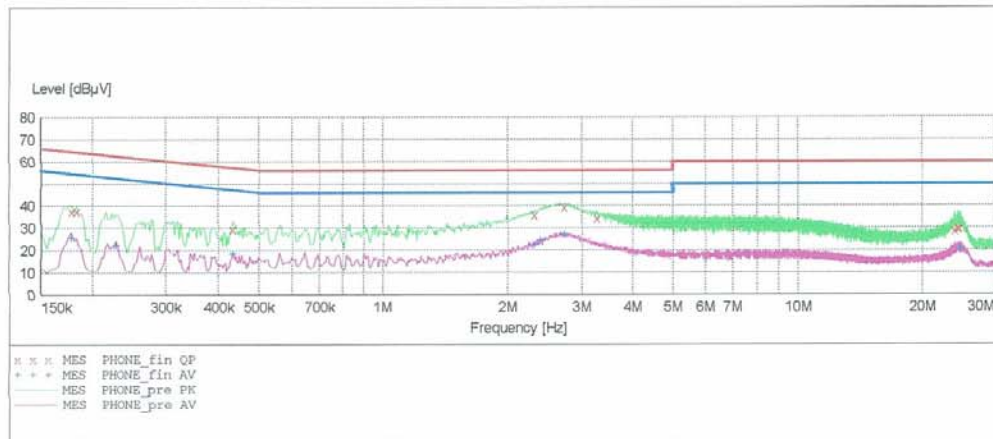
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EMC TEST LAB.

EUT: RM-347
Manufacturer: FIHTK
Operating Condition: CAMERA MODE
Test Site: SHIELD ROOM
Operator: DH-RYU
Test Specification: CISPR 22 CLASS B
Comment: H(Extended Battery)

SCAN TABLE: "CISPR 22 Voltage"

Short Description: CISPR 22 Voltage						
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "PHONE_fin QP"

11/9/2007 5:33PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.177600	37.60	10.0	65	27.0	---	---
0.182600	37.90	10.0	64	26.5	---	---
0.432600	29.60	10.0	57	27.6	---	---
2.315000	35.90	10.3	56	20.1	---	---
2.720000	39.30	10.4	56	16.7	---	---
3.265000	34.60	10.4	56	21.4	---	---
24.000000	28.90	12.6	60	31.1	---	---
24.400000	29.70	12.6	60	30.3	---	---
24.565000	29.70	12.6	60	30.3	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

11/9/2007 5:33PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.177600	26.10	10.0	55	28.5	---	---
0.227600	22.60	10.0	53	29.9	---	---
0.432600	18.70	10.0	47	28.5	---	---
2.315000	22.60	10.3	46	23.4	---	---
2.390000	24.80	10.3	46	21.2	---	---
2.725000	27.40	10.4	46	18.6	---	---
24.595000	20.70	12.6	50	29.3	---	---
24.715000	20.60	12.6	50	29.4	---	---
24.815000	20.70	12.7	50	29.3	---	---

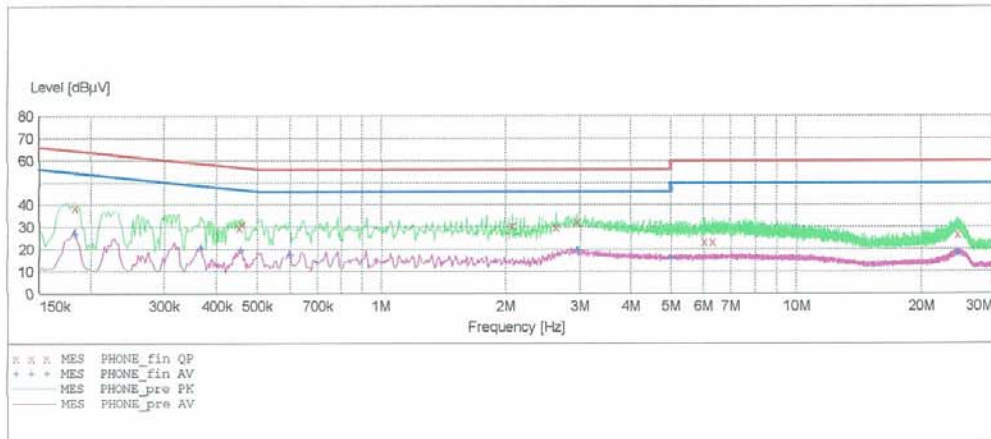
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EMC TEST LAB.

EUT: RM-347
Manufacturer: FIHTK
Operating Condition: CAMERA MODE
Test Site: SHIELD ROOM
Operator: DH-RYU
Test Specification: CISPR 22 CLASS B
Comment: N(Extended Battery)

SCAN TABLE: "CISPR 22 Voltage"

Short Description:			CISPR 22 Voltage			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "PHONE_fin OP"

11/9/2007 5:29PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.182600	38.80	10.0	64	25.6	---	---
0.452600	29.90	10.1	57	27.0	---	---
0.460100	31.50	10.1	57	25.2	---	---
2.075000	30.80	10.3	56	25.2	---	---
2.630000	30.00	10.4	56	26.0	---	---
2.950000	32.80	10.4	56	23.2	---	---
6.040000	23.70	10.8	60	36.3	---	---
6.315000	23.60	10.8	60	36.4	---	---
24.575000	26.80	12.6	60	33.2	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

11/9/2007 5:29PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.182600	27.00	10.0	54	27.3	---	---
0.367600	20.80	10.0	49	27.8	---	---
0.457600	19.80	10.1	47	27.0	---	---
0.600000	17.80	10.1	46	28.2	---	---
2.950000	20.00	10.4	46	26.0	---	---
2.995000	19.80	10.4	46	26.2	---	---
5.000000	16.00	10.6	46	30.0	---	---
24.435000	18.40	12.6	50	31.6	---	---
24.740000	18.40	12.6	50	31.6	---	---

The following table shows the highest levels of conducted emissions on both polarization of hot and neutral line.

=====

Limit apply to	: CISPR 22 CLASS B
Result	: PASSED BY – 7.8 dB
Operating Condition	: Data Communication mode
Detector	: Quasi-Peak, Average (6 dB Bandwidth: 9 kHz)
Test Date	: 11.29. 2007
BATTERY	: NORMAL BATTERY

Power Line Conducted Emissions				FCC Class B	
Frequency (MHz)	Amplitude (dBuV)	Conductor	Result	Limit (dBuV)	Margin (dB)
0.5250	38.2	HOT	Quasi-Peak	56.0	-17.8
0.5250	38.2	HOT	Average	46.0	-7.8
0.1951	32.8	NEUTRAL	Quasi-Peak	64.0	-18.5
0.1951	20.0	NEUTRAL	Average	43.9	-9.9

Line Conducted Emissions Tabulated Data

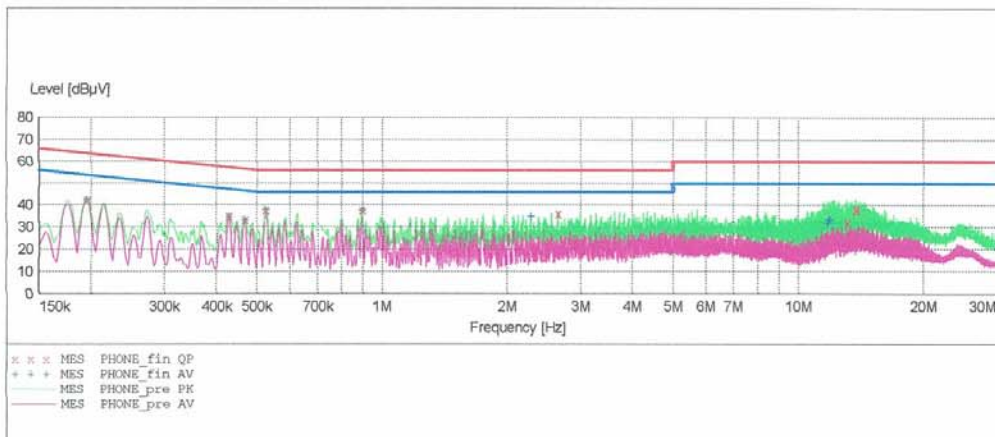
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EMC TEST LAB.

EUT: RM-347
Manufacturer: FIHTK
Operating Condition: Data communication mode
Test Site: SHIELD ROOM
Operator: DH.RYU
Test Specification: CISPR 22 CLASS B
Comment: H(NORMAL BATTERY)

SCAN TABLE: "CISPR 22 Voltage"

Short Description:			CISPR 22 voltage			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "PHONE_fin QP"

11/29/2007 5:38PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.195100	42.50	10.0	64	21.3	---	---
0.427600	35.10	10.0	57	22.2	---	---
0.467600	33.70	10.1	57	22.9	---	---
0.525000	38.20	10.1	56	17.8	---	---
0.895000	38.00	10.1	56	18.0	---	---
2.645000	36.10	10.4	56	19.9	---	---
13.105000	32.20	11.6	60	27.8	---	---
13.705000	37.90	11.7	60	22.1	---	---
13.760000	38.80	11.7	60	21.2	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

11/29/2007 5:38PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.195100	42.70	10.0	54	11.1	---	---
0.427600	34.80	10.0	47	12.5	---	---
0.467600	33.50	10.1	47	13.1	---	---
0.525000	38.20	10.1	46	7.8	---	---
0.895000	37.70	10.1	46	8.3	---	---
2.275000	35.20	10.3	46	10.8	---	---
11.800000	31.80	11.4	50	18.2	---	---
11.855000	33.40	11.4	50	16.6	---	---
11.910000	33.50	11.4	50	16.5	---	---

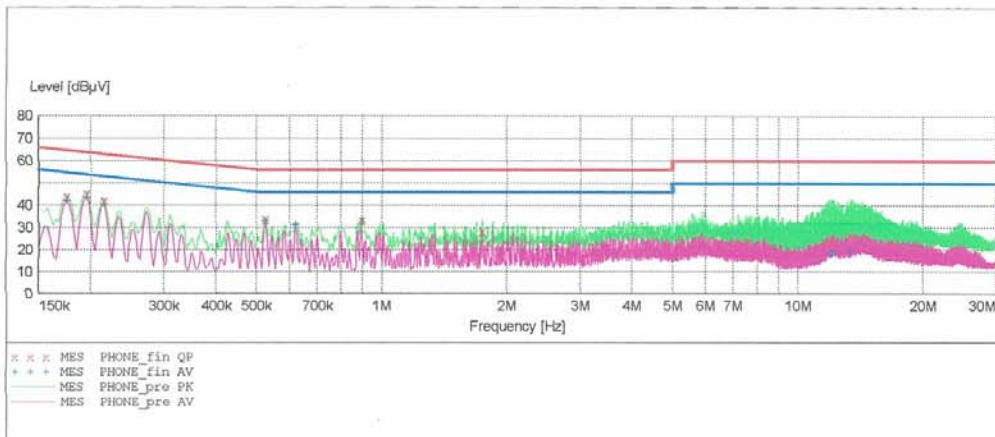
HCT

EMC TEST LAB.

EUT: RM-347
Manufacturer: FIHTK
Operating Condition: Data communication mode
Test Site: SHIELD ROOM
Operator: DH.RYU
Test Specification: CISPR 22 CLASS B
Comment: N(NORMAL BATTERY)

SCAN TABLE: "CISPR 22 Voltage"

Short Description:			CISPR 22 Voltage			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "PHONE_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.175100	44.10	10.0	65	20.6	---	---
0.195100	45.30	10.0	64	18.5	---	---
0.215100	42.30	10.0	63	20.7	---	---
0.525000	33.90	10.1	56	22.1	---	---
0.895000	33.60	10.1	56	22.4	---	---
1.745000	28.40	10.3	56	27.6	---	---
11.880000	24.90	11.4	60	35.1	---	---
13.405000	26.00	11.6	60	34.0	---	---
13.460000	26.30	11.6	60	33.7	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

11/29/2007 5:35PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.175100	42.50	10.0	55	12.2	---	---
0.195100	43.90	10.0	54	9.9	---	---
0.215100	41.00	10.0	53	12.0	---	---
0.525000	33.70	10.1	46	12.3	---	---
0.620000	31.70	10.1	46	14.3	---	---
0.895000	33.20	10.1	46	12.8	---	---
12.100000	18.70	11.4	50	31.3	---	---
12.155000	19.40	11.4	50	30.6	---	---
13.405000	20.00	11.6	50	30.0	---	---

The following table shows the highest levels of conducted emissions on both polarization of hot and neutral line.

=====

Limit apply to	: CISPR 22 CLASS B
Result	: PASSED BY – 7.0 dB
Operating Condition	: Data Communication mode
Detector	: Quasi-Peak, Average (6 dB Bandwidth: 9 kHz)
Test Date	: 11.29. 2007
BATTERY	: EXTENDED BATTERY

Power Line Conducted Emissions				FCC Class B	
Frequency (MHz)	Amplitude (dBuV)	Conductor	Result	Limit (dBuV)	Margin (dB)
0.8950	45.3	HOT	Quasi-Peak	56.0	-16.7
0.8950	39.0	HOT	Average	46.0	-7.0
0.1951	45.3	NEUTRAL	Quasi-Peak	64.0	-18.5
0.1951	43.9	NEUTRAL	Average	54.0	-9.9

Line Conducted Emissions Tabulated Data

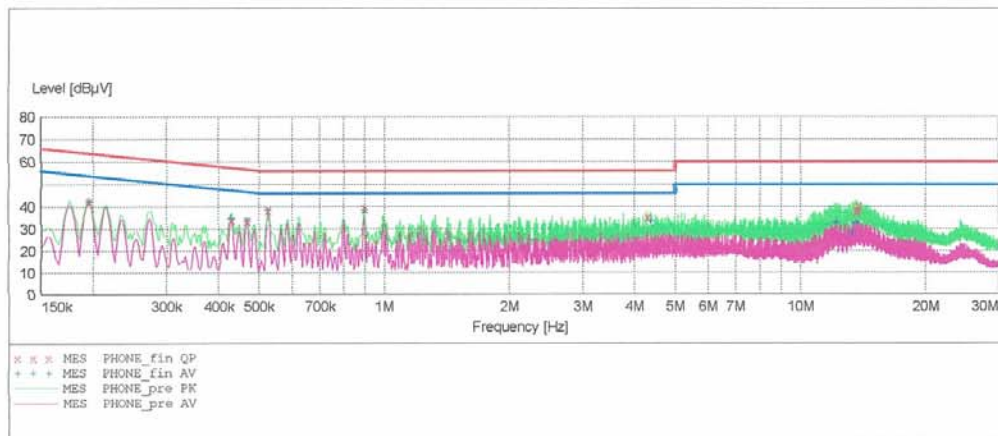
HCT

EMC TEST LAB.

EUT: RM-347
Manufacturer: FIHTK
Operating Condition: Data communication mode
Test Site: SHIELD ROOM
Operator: DH.RYU
Test Specification: CISPR 22 CLASS B
Comment: H(EXTENDED BATTERY)

SCAN TABLE: "CISPR 22 Voltage"

Short Description: CISPR 22 Voltage						
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "PHONE_fin QP"

11/29/2007 5:41PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.195100	42.40	10.0	64	21.4	---	---
0.430100	34.30	10.0	57	23.0	---	---
0.467600	34.10	10.1	57	22.5	---	---
0.525000	38.70	10.1	56	17.3	---	---
0.895000	39.30	10.1	56	16.7	---	---
4.280000	35.40	10.5	56	20.6	---	---
13.600000	38.10	11.7	60	21.9	---	---
13.655000	39.00	11.7	60	21.0	---	---
13.765000	40.50	11.7	60	19.5	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

11/29/2007 5:41PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.195100	42.60	10.0	54	11.2	---	---
0.427600	35.30	10.0	47	12.0	---	---
0.467600	33.90	10.1	47	12.7	---	---
0.525000	38.80	10.1	46	7.2	---	---
0.895000	39.00	10.1	46	7.0	---	---
4.380000	34.40	10.6	46	11.6	---	---
12.185000	33.40	11.4	50	16.6	---	---
13.325000	28.40	11.6	50	21.6	---	---
13.655000	33.00	11.7	50	17.0	---	---

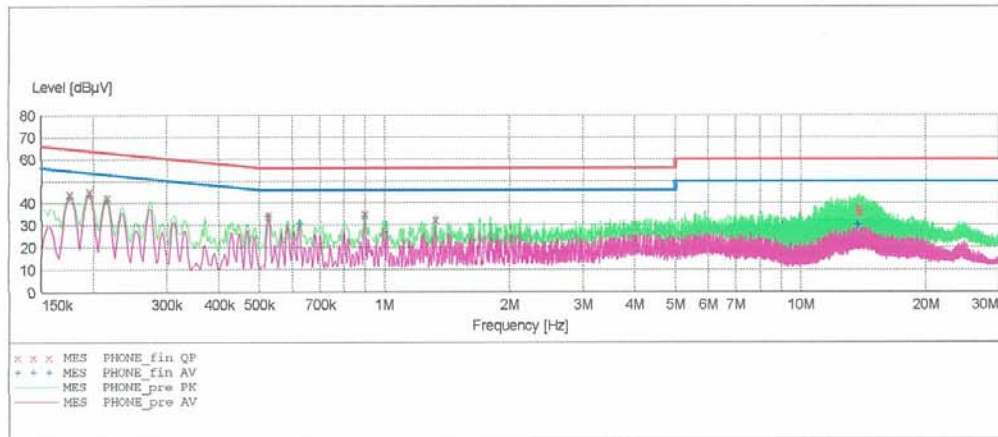
HCT

EMC TEST LAB.

EUT: RM-347
Manufacturer: FIHTK
Operating Condition: Data communication mode
Test Site: SHIELD ROOM
Operator: DH.RYU
Test Specification: CISPR 22 CLASS B
Comment: N(EXTENDED BATTERY)

SCAN TABLE: "CISPR 22 Voltage"

Short Description:			CISPR 22 Voltage			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
500.0 kHz	5.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "PHONE_fin QP"

11/29/2007 5:44PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.175100	44.30	10.0	65	20.4	---	---
0.195100	45.30	10.0	64	18.5	---	---
0.215100	42.70	10.0	63	20.3	---	---
0.525000	34.50	10.1	56	21.5	---	---
0.895000	35.00	10.1	56	21.0	---	---
1.325000	32.70	10.2	56	23.3	---	---
13.665000	38.20	11.7	60	21.8	---	---
13.775000	37.00	11.7	60	23.0	---	---
13.830000	35.40	11.7	60	24.6	---	---

MEASUREMENT RESULT: "PHONE_fin AV"

11/29/2007 5:44PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.175100	42.70	10.0	55	12.0	---	---
0.195100	43.90	10.0	54	9.9	---	---
0.215100	41.40	10.0	53	11.6	---	---
0.525000	34.30	10.1	46	11.7	---	---
0.625000	31.10	10.1	46	14.9	---	---
0.895000	34.60	10.1	46	11.4	---	---
13.665000	30.20	11.7	50	19.8	---	---
13.720000	30.60	11.7	50	19.4	---	---
13.775000	30.10	11.7	50	19.9	---	---

4.2 Radiated Emission Test

The following table shows the highest levels of Radiated Emissions on both polarization of horizontal and vertical.

```

=====
Limit apply to      : FCC PART 15 Subpart B
Result              : PASSED BY – 7.6 dB
Operating Condition : Camera mode
Detector            : Quasi-Peak (6 dB Bandwidth: 120 kHz)
Test Date           : 10.25. 2007
                    : NORMAL BA
BATTERY             : TTERY
  
```

Frequency MHz	Reading dBuV	Ant. Factor dB	Cable Loss dB	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
129.2	16.5	11.6	2.7	H	30.8	43.5	-12.7
132.0	16.5	11.8	2.7	H	31.0	43.5	-12.5
144.0	17.2	12.7	2.8	H	32.7	43.5	-10.8
156.0	14.3	13.0	3.0	H	30.3	43.5	-13.2
180.0	16.0	10.6	3.2	H	29.8	43.5	-13.7
417.2	18.2	15.4	4.8	H	38.4	46.0	-7.6

```

Limit apply to      : FCC PART 15 Subpart B
Result              : PASSED BY – 6.8 dB
Operating Condition : Camera mode
Detector            : Quasi-Peak (6 dB Bandwidth: 120 kHz)
Test Date           : 11.09. 2007
BETTERY             : EXTENDED BETTERY
  
```

Frequency MHz	Reading dBuV	Ant. Factor dB/m	Cable Loss dB	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
120.0	18.8	11.1	2.6	V	32.5	43.5	-11.0
417.2	19.0	15.4	4.8	V	39.2	46.0	-6.8
417.2	15.8	15.4	4.8	H	36.0	46.0	-10.0
428.7	15.7	15.7	4.9	H	36.3	46.0	-9.7
440.6	14.5	16.0	4.9	H	35.4	46.0	-10.6
465.8	13.9	16.4	5.1	V	35.4	46.0	-10.6

*** For measurement over 1 GHz, noise level is more than 10 dB below the limit.

The following table shows the highest levels of Radiated Emissions on both polarization of horizontal and vertical.

=====

Limit apply to	: FCC PART 15 Subpart B
Result	: PASSED BY – 9.5 dB
Operating Condition	: Data Communication mode
Detector	: Quasi-Peak (6 dB Bandwidth: 120 kHz)
Test Date	: 11.29. 2007
BATTERY	: NORMAL BATTERY

Frequency MHz	Reading dBuV	Ant. Factor dB	Cable Loss dB	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
232.4	18.8	10.7	3.7	H	33.2	46	-12.8
421.2	15.1	15.5	4.8	H	35.4	46	-10.6
239.0	19.7	10.9	3.7	V	34.3	46	-11.7
424.2	16.1	15.6	4.8	V	36.5	46	-9.5

Limit apply to	: FCC PART 15 Subpart B
Result	: PASSED BY – 8.9 dB
Operating Condition	: Data Communication mode
Detector	: Quasi-Peak (6 dB Bandwidth: 120 kHz)
Test Date	: 11.29. 2007
BATTERY	: EXTENDED BETTERY

Frequency MHz	Reading dBuV	Ant. Factor dB/m	Cable Loss dB	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
232.4	19.9	10.7	3.7	H	34.3	46	-11.7
421.2	14.8	15.5	4.8	H	35.1	46	-10.9
239.0	19.2	10.9	3.7	V	33.8	46	-12.2
424.2	16.7	15.6	4.8	V	37.1	46	-8.9

*** For measurement over 1 GHz, noise level is more than 10 dB below the limit.

5. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor.

The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF$$

where FS = Field Strength

RA = Receiver Amplitude

AF = Antenna Factor

CF = Cable Attenuation Factor

Assume a receiver reading of 21.5 dBuV/m is obtained. The Antenna Factor of 7.4 dB and a Cable Factor of 1.1 dB is added. The 30 dBuV/m value is mathematically converted to its corresponding level in uV/m.

$$FS = 21.5 + 7.4 + 1.1 = 30 \text{ dBuV/m}$$

Radiated emission limits

Frequency of emission	Field strength	
	$\mu\text{V} / \text{m}$	$\text{dB } \mu\text{V} / \text{m}$
30 ~ 88	100	40.0
88 ~ 216	150	43.5
216 ~ 960	200	46.0
Above 960	500	54.0

6. Test Equipment

<u>Type</u>	<u>Manufacture</u>	<u>Model Number</u>	<u>Next CAL Date</u>
EMI Test Receiver	Rohde & Schwarz	ESI40	2008.11.06
EMI Test Receiver	Rohde & Schwarz	ESCI	2008.06.01
LISN	EMCO	703125	2008.02.03
LISN	Rohde & Schwarz	ESH2-Z5	2008.04.20
LISN	Rohde & Schwarz	ESH3-Z5	2008.06.13
LISN	EMCO	3816/2	2008.06.13
Attenuator	Rohde & Schwarz	ESH3-Z2	2008.10.30
TRILOG Antenna	Schwarzbeck	VULB9168	2008.03.19
Communication Antenna	TDK	LPDA-0802	N/A
Antenna Position Tower	HD	240/520/00	N/A
Turn Table	EMCO	1060	N/A
AC Power Source	PACIFIC	Magnetic Module	N/A
Base Station	Rohde & Schwarz	CMU 200	2008.02.27
Horn Antenna	Schwarzbeck	BBHA 9120D	2008.03.31
RF-Amplifier	MITEQ	AMF-6D-00101800-35.20P.PS	2008.01.24
Bluetooth Base Station	TESCOM	TC-3000A	2008.01.19

7. Conclusion

The data collected shows that the Nokia, Inc..

Dual-band CDMA/EVDO Phone with Bluetooth. MODEL: RM-347 Complies with §15.107 and §15.109 of the FCC Rules.