

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: 2.4G Wireless USB Dongle

Brand Name: INFINITER

Model No.: LR-22RX

Model Difference: N/A

FCC ID: S751240LR22RX

Report No.: ER/2011/90040

Issue Date: Dec. 09, 2011

FCC Rule Part: §15.249

Prepared for: Quarton inc.
9F, 185, Sec. 1, Ta-Tung Rd., His-Chih, New Taipei
City, Taiwan, R.O.C.
SGS Taiwan Ltd.

Prepared by: Electronics & Communication Laboratory
No. 134, Wu Kung Rd., Wuku Industrial Zone,
Taipei County, Taiwan.



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VERIFICATION OF COMPLIANCE

Applicant: Quarton inc.
9F, 185, Sec. 1, Ta-Tung Rd., His-Chih, New Taipei City, Taiwan,
R.O.C.

Product Description: 2.4G Wireless USB Dongle

Brand Name: INFINITER

Model No.: LR-22RX

FCC ID: S751240LR22RX

Model Difference: N/A

File Number: ER/2011/90040

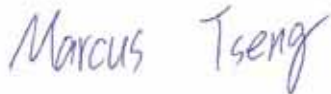
Date of test: Sep. 29, 2011 ~ Dec. 08, 2011

Date of EUT Received: Sep. 29, 2011

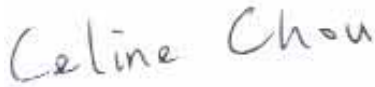
We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd., Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.249.

The test results of this report relate only to the tested sample identified in this report.

Test By:**Date:**

Dec. 09, 2011

Marcus Tseng / Engineer**Prepared By:****Date:**

Dec. 09, 2011

Celine Chou / Clerk**Approved By:****Date:**

Dec. 09, 2011

Jim Chang / Supervisor

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Version

Version No.	Date	Description
00	Dec. 09, 2011	Initial creation of document

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1. GENERAL INFORMATION

1.1 Product Description

Product Name:	2.4G Wireless USB Dongle
Brand Name:	INFINITER
Model No.:	LR-22RX
Model Difference:	N/A
Hardware Version	V1.1
Software Version	V1.1
Operation Frequency:	2403 - 2474MHz
Channel number:	16 channels
Signal frequency:	2.415GHz→2.435GHz→2.474 GHz→2.410GHz→2.444GHz→ 2.460GHz→2.406GHz→2.421GHz→2.471GHz→2.403GHz→ 2.430GHz→2.450GHz→2.468GHz→2.405GHz→2.433GHz→ 2.457GHz→(cycle from beginning)
Modulation Type:	FHSS
Power Supply	DC 5V from USB Port
Antenna Designation:	Printed Antenna

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **S751240LR22RX** filing to comply with Section 15.249 of the FCC Part 15, Subpart C Rules.

1.3 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 3 meters.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number is: 990257 and 236194, Canada Registration Number: 4620A-4.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

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2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the engineering operating mode. the Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4-2003.

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2.4 Limitation

(1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 – 0.5	66 - 56	56 - 46
0.5 – 5	56	46
5 - 30	60	50

(2) Radiated Emission 15.249(a)

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following.

Frequency (MHz)	Field strength of Fundamental	Field strength of Harmonics	Distance (m)
902 - 928	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3
2400 – 2483.5	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3
5725 – 5875	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3
24.0 – 24.25 GHz	250 mV/m (107.95dBuV/m)	2500 uV/m (67.95dBuV/m)	3

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(3) Radiated Emission 15.249 (d)

Emission Radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in Section 15.209 as below, whichever is the lesser attenuation.

Frequency (MHz)	Field strength $\mu\text{V/m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V/m}$
1.705-30	30	30	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

(4) Radiated Emission 15.249(e)

For frequencies above 1000MHz, the above field strength limits are based on average limits. The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation.

- Remark:
1. Emission level in $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205
 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of § 15.205, then the general radiated emission limits in § 15.209 apply.

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2.5 Configuration of Tested System

Fig. 2-1 Configuration

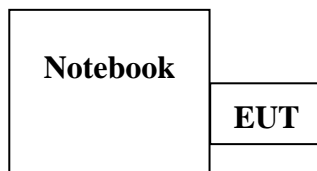


Table 2-2 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Notebook	HP	ProBook 4411s	CNU9316V4C	N/A	Un-Shield

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

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3. Summary of Test Results

FCC Rules	Description Of Test	Result
§15.207	Conducted Emission	Compliant
§15.249(a)(e)	Radiated Emission	Compliant
§15.249(d)	20dB band width Measurement	Compliant

4. Description of test modes

The EUT has been tested under operating condition.

The EUT is staying in continuous transmitting mode.

Channel low (2403MHz)、mid (2435MHz) and high (2474MHz) with highest data rate are chosen for full testing.

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode). The worst-case of E2 position were reported.

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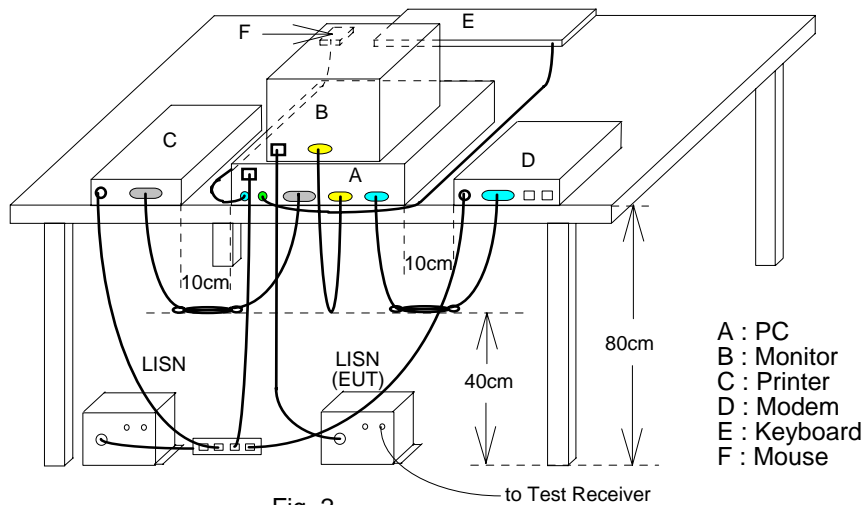
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5. Conducted Emissions Test

5.1 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/23/2010	09/22/2012
LISN	Rolf-Heine	NNB-2/16Z	99012	03/31/2011	03/30/2012
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	03/31/2011	03/30/2012
Coaxial Cables	N/A	WK CE Cable	N/A	11/28/2011	11/27/2012

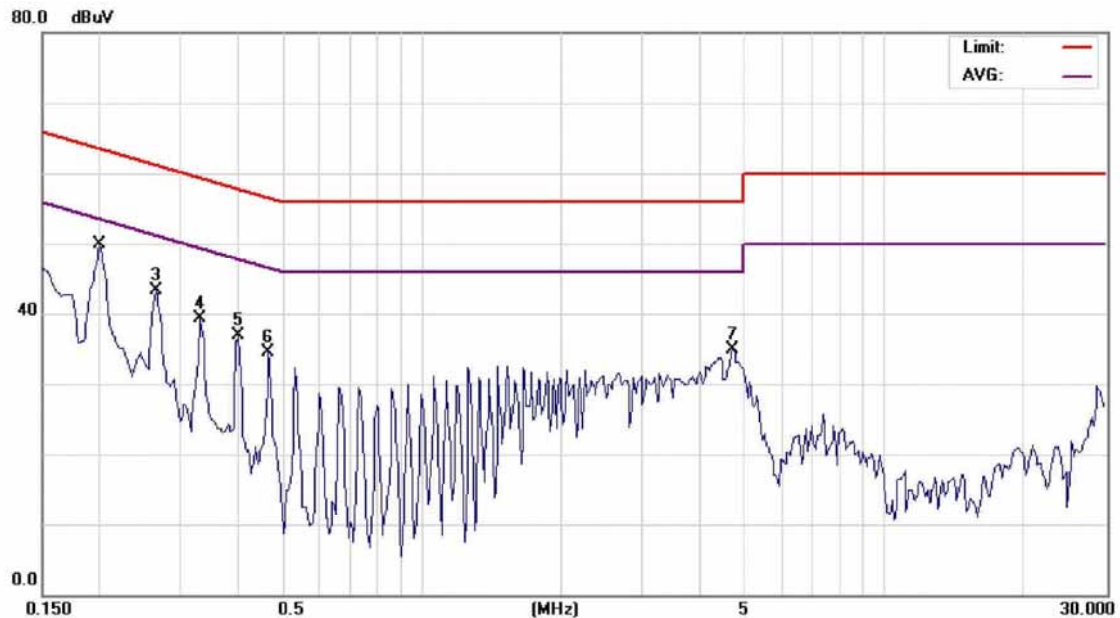
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5.4 Measurement Result:

Operation Mode:	Operation			Test Date:	Dec. 07, 2011
Temperature:	21	Humidity:	64 %	Test By:	Marcus



Site SGS CONDUCTED #1

Phase: L1

Temperature: 21 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 64%

EUT: 2.4G Wireless USB Dongle

Distance:

Air Pressure: hpa

M/N: LR-22RX

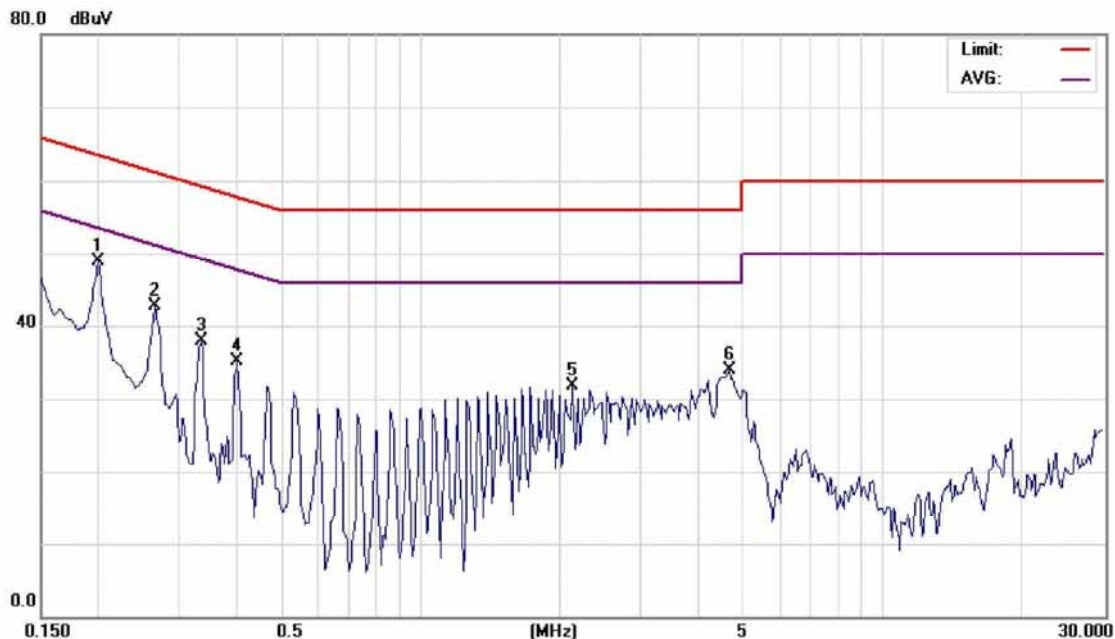
Note: Operation

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1994	48.74	0.12	48.86	63.64	-14.78	QP	
2	*	0.1994	38.88	0.12	39.00	53.64	-14.64	AVG	
3		0.2650	43.23	0.12	43.35	61.27	-17.92	peak	
4		0.3300	39.15	0.12	39.27	59.45	-20.18	peak	
5		0.4000	36.70	0.12	36.82	57.85	-21.03	peak	
6		0.4650	34.35	0.12	34.47	56.60	-22.13	peak	
7		4.7200	34.73	0.18	34.91	56.00	-21.09	peak	

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Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: 2.4G Wireless USB Dongle

M/N: LR-22RX

Note: Operation

Phase: **N**

Power: AC 120V/60Hz

Distance:

Temperature: 21 °C

Humidity: 64%

Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.2000	48.66	0.16	48.82	63.61	-14.79	peak	
2		0.2650	42.45	0.16	42.61	61.27	-18.66	peak	
3		0.3350	37.69	0.16	37.85	59.33	-21.48	peak	
4		0.4000	34.92	0.16	35.08	57.85	-22.77	peak	
5		2.1300	31.48	0.18	31.66	56.00	-24.34	peak	
6		4.6600	33.78	0.22	34.00	56.00	-22.00	peak	

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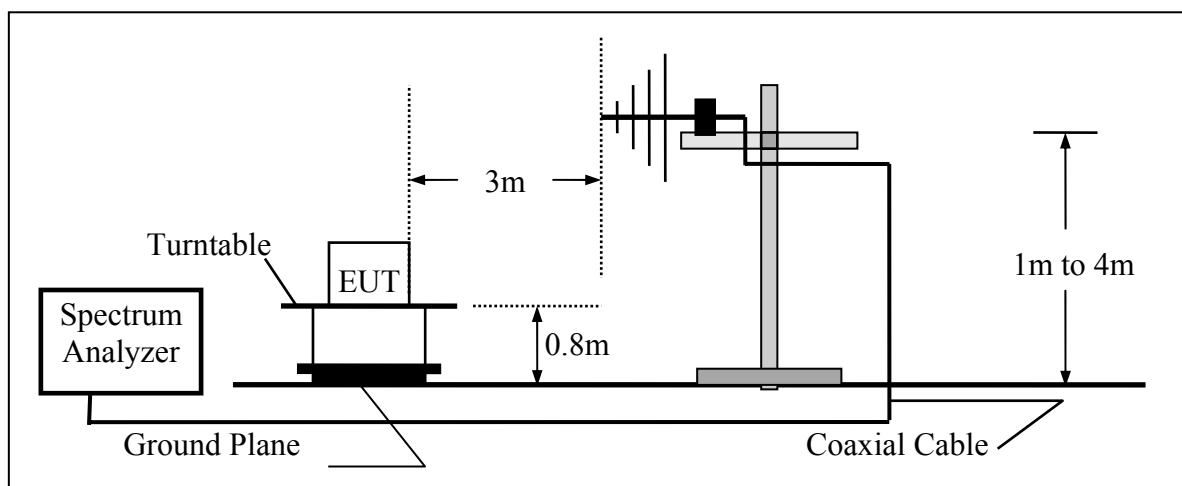
6. Radiated Emission Test

6.1 Measurement Procedure

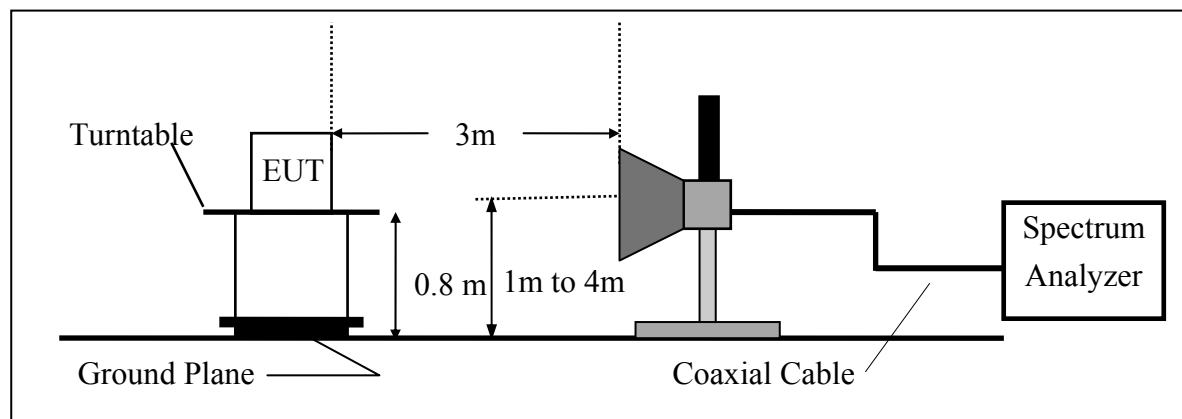
1. The EUT was placed on a turntable that is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-Up Frequency Over 1 GHz



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6.3 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	03/30/2011	03/29/2012
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/19/2011	11/18/2012
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	01/22/2010	01/21/2012
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2011	11/27/2012
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2010	08/11/2012
DC Block	Agilent	BLK-18	155452	01/05/2011	01/04/2012
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2011	01/04/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2011	01/04/2012
3m Site	SGS	966 chamber	N/A	07/15/2011	07/14/2012

6.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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6.5 Measurement Result

Radiated Spurious Emission Measurement Result

Operation Band	:2.4G	Test Date	:2011-12-06
Fundamental Frequency	:2403 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
2403.00	F	Average	77.29	5.20	82.49	94.00	-11.51
2403.00	F	Peak	77.40	5.20	82.60	114.00	-31.40
82.38	S	Peak	47.67	-17.07	30.60	40.00	-9.40
130.88	S	Peak	46.54	-13.17	33.37	43.50	-10.13
286.08	S	Peak	44.59	-12.09	32.50	46.00	-13.50
429.64	S	Peak	37.80	-9.68	28.12	46.00	-17.88
502.39	S	Peak	38.78	-8.72	30.06	46.00	-15.94
725.49	S	Peak	33.43	-4.52	28.91	46.00	-17.09
4806.00	H	Peak	35.19	9.96	45.15	74.00	-28.85
7209.00	---						
9612.00	---						
12015.00	---						
14418.00	---						
16821.00	---						
19224.00	---						
21627.00	---						
24030.00	---						

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Operation Band	:2.4G	Test Date	:2011-12-06
Fundamental Frequency	:2403 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
2403.00	F	Average	79.57	5.87	85.44	94.00	-8.56
2403.00	F	Peak	80.10	5.87	85.97	114.00	-28.03
82.38	S	Peak	41.63	-17.07	24.56	40.00	-15.44
219.15	S	Peak	49.88	-14.52	35.36	46.00	-10.64
287.05	S	Peak	48.89	-12.13	36.76	46.00	-9.24
361.74	S	Peak	43.59	-10.73	32.86	46.00	-13.14
664.38	S	Peak	37.04	-5.67	31.37	46.00	-14.63
800.18	S	Peak	33.94	-3.52	30.42	46.00	-15.58
4806.00	H	Peak	35.29	10.00	45.29	74.00	-28.71
7209.00	---						
9612.00	---						
12015.00	---						
14418.00	---						
16821.00	---						
19224.00	---						
21627.00	---						
24030.00	---						

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Operation Band	:2.4G	Test Date	:2011-12-06
Fundamental Frequency	:2435 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
2435.00	F	Average	77.60	5.42	83.02	94.00	-10.98
2435.00	F	Peak	77.98	5.42	83.40	114.00	-30.60
83.35	S	Peak	47.57	-17.21	30.36	40.00	-9.64
130.88	S	Peak	46.50	-13.17	33.33	43.50	-10.17
286.08	S	Peak	45.39	-12.09	33.30	46.00	-12.70
430.61	S	Peak	37.42	-9.64	27.78	46.00	-18.22
511.12	S	Peak	37.83	-8.59	29.24	46.00	-16.76
715.79	S	Peak	34.16	-4.79	29.37	46.00	-16.63
4870.00	H	Peak	34.34	10.57	44.91	74.00	-29.09
7305.00	---						
9740.00	---						
12175.00	---						
14610.00	---						
17045.00	---						
19480.00	---						
21915.00	---						
24350.00	---						

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Operation Band	:2.4G	Test Date	:2011-12-06
Fundamental Frequency	:2435 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
2435.00	F	Average	79.25	6.23	85.48	94.00	-8.52
2435.00	F	Peak	79.48	6.23	85.71	114.00	-28.29
109.54	S	Peak	40.41	-15.12	25.29	43.50	-18.21
215.27	S	Peak	49.86	-14.75	35.11	43.50	-8.39
291.90	S	Peak	49.76	-12.05	37.71	46.00	-8.29
356.89	S	Peak	43.49	-10.86	32.63	46.00	-13.37
685.72	S	Peak	39.18	-5.32	33.86	46.00	-12.14
799.21	S	Peak	34.71	-3.56	31.15	46.00	-14.85
4870.00	H	Peak	35.33	10.52	45.85	74.00	-28.15
7305.00	---						
9740.00	---						
12175.00	---						
14610.00	---						
17045.00	---						
19480.00	---						
21915.00	---						
24350.00	---						

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Operation Band	:2.4G	Test Date	:2011-12-06
Fundamental Frequency	:2474 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
2474.00	F	Average	77.82	5.73	83.55	94.00	-10.45
2474.00	F	Peak	78.21	5.73	83.94	114.00	-30.06
130.88	S	Peak	46.52	-13.17	33.35	43.50	-10.15
286.08	S	Peak	46.32	-12.09	34.23	46.00	-11.77
438.37	S	Peak	38.27	-9.51	28.76	46.00	-17.24
501.42	S	Peak	37.77	-8.73	29.04	46.00	-16.96
664.38	S	Peak	35.03	-5.67	29.36	46.00	-16.64
793.39	S	Peak	33.58	-3.61	29.97	46.00	-16.03
4948.00	H	Peak	34.39	10.74	45.13	74.00	-28.87
7422.00	---						
9896.00	---						
12370.00	---						
14844.00	---						
17318.00	---						
19792.00	---						
22266.00	---						
24740.00	---						

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Operation Band	:2.4G	Test Date	:2011-12-06
Fundamental Frequency	:2474 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
2474.00	F	Average	79.75	6.71	86.46	94.00	-7.54
2474.00	F	Peak	79.73	6.71	86.44	114.00	-27.56
83.35	S	Peak	41.51	-17.21	24.30	40.00	-15.70
219.15	S	Peak	50.14	-14.52	35.62	46.00	-10.38
291.90	S	Peak	50.02	-12.05	37.97	46.00	-8.03
357.86	S	Peak	41.75	-10.86	30.89	46.00	-15.11
429.64	S	Peak	36.65	-9.68	26.97	46.00	-19.03
720.64	S	Peak	34.66	-4.61	30.05	46.00	-15.95
4948.00	H	Peak	34.39	10.60	44.99	74.00	-29.01
7422.00	---						
9896.00	---						
12370.00	---						
14844.00	---						
17318.00	---						
19792.00	---						
22266.00	---						
24740.00	---						

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7. 20 dB Band Width Measurement

7.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set ETU normal operating mode.
3. Set SPA Center Frequency = fundamental frequency, RBW = 100kHz, VBW = 300kHz, Span = 1MHz.
4. Set SPA Max hold. Mark peak, -20dB.

7.2 Test SET-UP (Block Diagram of Configuration)

Same as 4.2 Radiated Emission Measurement.

7.3 Measurement Equipment Used:

Same as 4.2 Radiated Emission Measurement.

7.4 Measurement Results:

2403 Channel = 0.272MHz

2435 Channel = 0.266MHz

2474 Channel = 0.287MHz

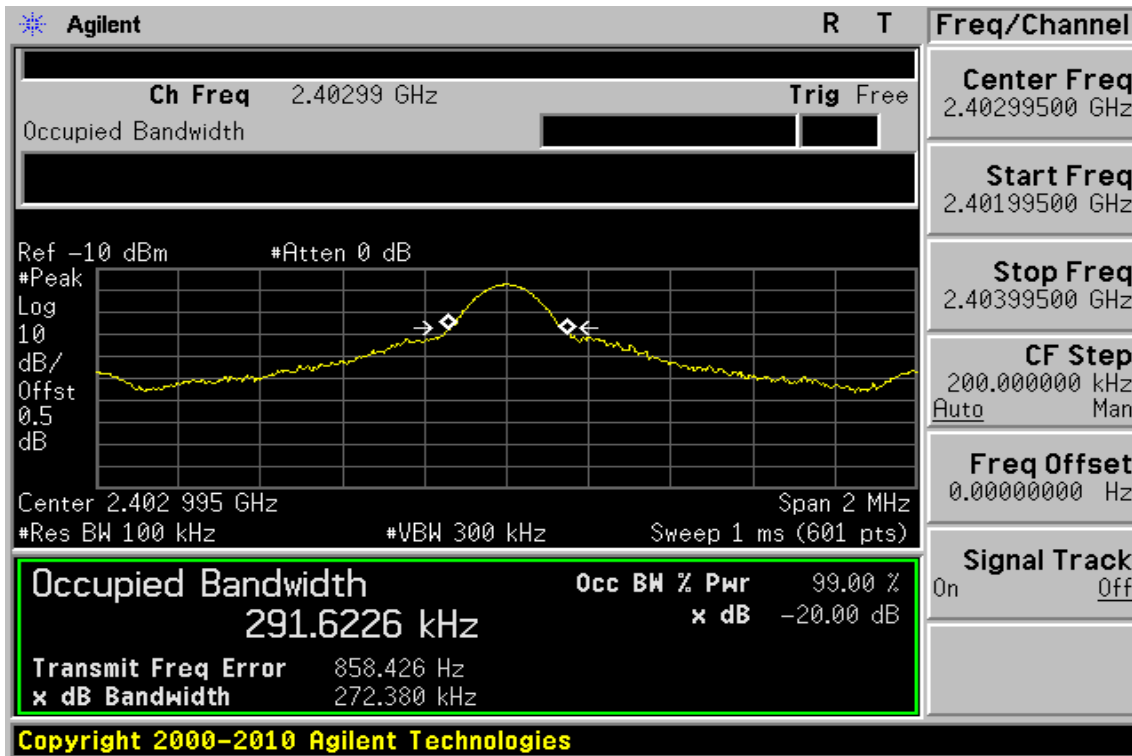
Refer to attached data chart.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

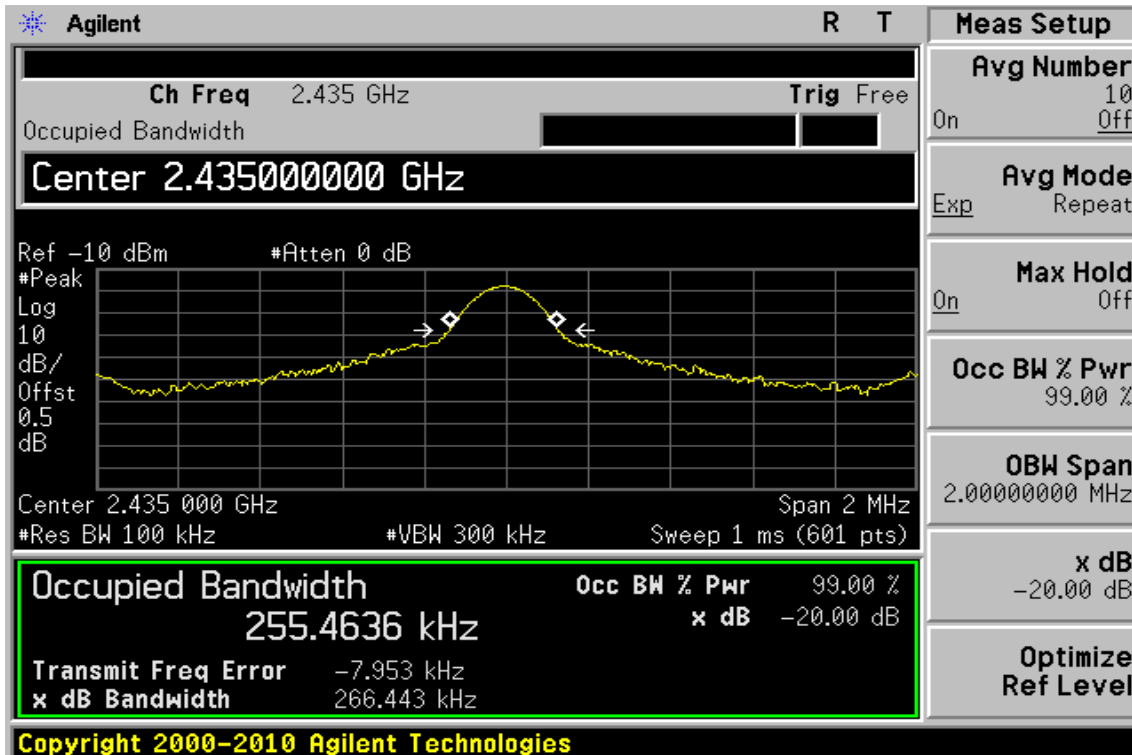
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20dB Bandwidth Test Data CH-Low



20dB Bandwidth Test Data CH-Mid

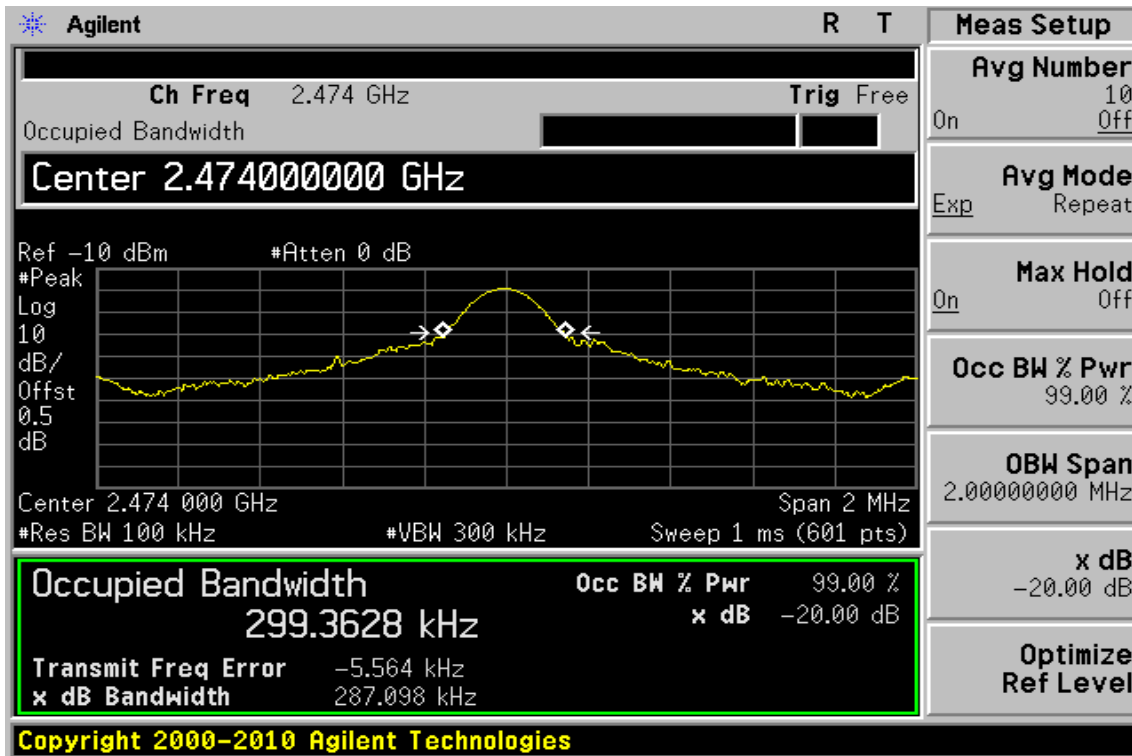


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20dB Bandwidth Test Data CH-High



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