



FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Ultra Mobile PC

**Trade Name / Model:
AMTEK / T710,
Smart Caddie / SCA100**

Issued to

**AMTEK SYSTEM CO., LTD.
14F-11, No. 79, Sec. 1, Hsin Tai Wu rd., Hsi Chih City,
Taipei Hsien, Taiwan**

Issued by



Compliance Certification Services Inc.
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1. TEST RESULT CERTIFICATION

Applicant: AMTEK SYSTEM CO., LTD.
14F-11, No. 79, Sec. 1, Hsin Tai Wu rd., Hsi Chih City,
Taipei Hsien, Taiwan

Equipment Under Test: Ultra Mobile PC

Trade Name / Model: AMTEK / T710,
Smart Caddie / SCA100

Date of Test: April 13 ~ 19, 2007

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 15 Subpart C	No non-compliance noted

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. 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 the requirements of FCC Rules Part 15.207, 15.209, 15.247.

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

Approved by:

Reviewed by:

Johnny Liu
Section Manager
Compliance Certification Services Inc.

Amanda Wu
Section Manager
Compliance Certification Services Inc.



2. EUT DESCRIPTION

Product	Ultra Mobile PC
Trade Name / Model Number	AMTEK / T710, Smart Caddie / SCA100
Model Discrepancy	All the specification and layout are identical except they come with different model numbers and trade names for marketing purposes.
Power Supply	1. Power Adapter: LI SHIN INTERNATIONAL ENTERPRISE CORP. Model: 0335A1965 I/P: AC 100-240V, 50-60Hz, 1.7A O/P: DC 19V, 3.42A LI SHIN INTERNATIONAL ENTERPRISE CORP. Model: 0225C1965 I/P: AC 100-240V, 50-60Hz, 1.7A O/P: DC 19V, 3.42A 2. Battery: Li-ion 10.8V, 2400mAh
Frequency Range	2402 ~ 2480 MHz
Modulation Technique	FHSS (GFSK)
Transmit Data Rate	1Mbps
Number of Channels	79 Channels
Antenna Specification	2.0 dBi
Antenna Designation	Multilayer Chip Antenna

Remark:

1. The sample selected for test was production product and was provided by manufacturer.
2. This submittal(s) (test report) is intended for FCC ID: **R4R-AIRT710UMPC** filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.



3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.247.

3.1 EUT CONFIGURATION

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

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable 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 maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4.



3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(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 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

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

² Above 38.6

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



3.5 DESCRIPTION OF TEST MODES

The EUT (model: T710) comes with two types of power adapter (0335A1965 / 0225C1965) for sale. After the preliminary test, the adapter (Model: 0335A1965) was found to emit the worst emissions and therefore had been tested under operating condition.

Test program used to control the EUT for staying in continuous transmitting mode was programmed.

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z mode), lie-down position (X, Y mode) and docking mode. The worst emission was found in Z mode for the worst cases in docking mode were recorded.



4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year.

Conducted Emissions Test Site				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360131	01/30/2008
Power Meter	Agilent	E4416A	GB41291611	05/24/2007
Power Sensor	Agilent	E9327A	US40441097	05/24/2007

Open Area Test Site # 3				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilnet	E4411B	MY41440314	N.C.R.
Spectrum Analyzer	R&S	FSP30	100112	10/10/2007
EMI Test Receiver	R&S	ESVS30	828488/004	03/12/2008
Pre-Amplifier	Anritsu	MH648A	M18767	08/31/2007
Pre-Amplifier	MITEQ	AFS42-00102650-42-10P-42	966468	04/26/2008
Bilog Antenna	Schwazbeck	VULB9163	144	03/30/2008
Horn Antenna	EMCO	3115	00022250	04/15/2008
Loop Antenna	EMCO	6502	2356	N.C.R.
Turn Table	Chance Most	CM-T003-1	T807-6	N.C.R.
Antenna Tower	Chance Most	CM-A003-1	A807-6	N.C.R.
Controller	CCS	CC-C-1F	N/A	N.C.R.
RF Switch	Anritsu	MP59B	M53867	N.C.R.
Site NSA	CCS	N/A	N/A	05/04/2008
Test S/W	LabVIEW 6.1 (CCS OATS EMI SW V2.6)			

Remark: The measurement uncertainty is less than +/- 4.52dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.



Powerline Conducted Emissions Test Site # 3				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCS30	845552/030	03/28/2008
Pulse Limiter	R&S	ESH3-Z2	100299	11/09/2007
LISN	R&S	ESH2-Z5	843285/010	01/08/2008
LISN	R&S	ESH3-Z5	848773/014	10/26/2007
ISN	FCC	FCC-TLISN-T2-02	20324	12/19/2007
ISN	FCC	FCC-TLISN-T4-02	20325	12/19/2007
ISN	FCC	FCC-TLISN-T8-02	20326	12/19/2007
Current Probe	FCC	F-35	506	06/01/2008
Test S/W	LabVIEW 6.1 (CCS Conduction Test SW Version_01)			

Remark: The measurement uncertainty is less than +/- 3.4508dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.



5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.

Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029

No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan

Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045

No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan

Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT








Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	A2LA	EN 55011, EN 55014-1/2, CISPR 11, CISPR 14-1/2, EN 55022, EN 55015, CISPR 22, CISPR 15, AS/NZS 3548, VCCI V3 (2001), CFR 47, FCC Part 15/18, CNS 13783-1, CNS 13439, CNS 13438, CNS 13803, CNS 14115, EN 55024, IEC 801-2, IEC 801-3, IEC 801-4, IEC/EN 61000-3-2, IEC/EN 61000-3-3, IEC/EN 61000-4-2/3/4/5/6/8/11, EN 50081-1/ EN 61000-6-3, EN 50081-2/EN 61000-6-4, EN 50081-2/EN 61000-6-1: 2001	 0824-01
USA	FCC	3/10 meter Open Area Test Sites (93105, 90471) / 3M Semi Anechoic Chamber (965860) to perform FCC Part 15/18 measurements	 93105, 90471 965860
Japan	VCCI	3/10 meter Open Area Test Sites to perform conducted/radiated measurements	 R-393/1066/725/879 C-402/747/912
Norway	NEMKO	EN 50081-1/2, EN 50082-1/2, IEC 61000-6-1/2, EN 50091-2, EN 50130-4, EN 55011, EN 55013, EN 55014-1/2, EN 55015, EN 55022, EN 55024, EN 61000-3-2/3, EN 61326-1, IEC 61000-4-2/3/4/5/6/8/11, EN 60601-1-2, EN 300 328, EN 300 422-2, EN 301 419-1, EN 301 489-01/03/07/08/09/17, EN 301 419-2/3, EN 300 454-2, EN 301 357-2	 ELA 124a ELA 124b ELA 124c
Taiwan	TAF	EN 300 328, EN 300 220-1, EN 300 220-2, EN 300 220-3, 47 CFR FCC Part 15 Subpart C, EN 61000-3-2, EN 61000-3-3, CNS 13439, CNS 13783-1, CNS 14115, CNS 13438, AS/NZS CISPR 22, CNS 13022-1, IEC 61000-4-2/3/4/5/6/8/11, CNS 13022-2/3	 Testing Laboratory 0363
Taiwan	BSMI	CNS 13438, CNS 13783-1, CNS 13439, CNS 14115	 SL2-IS-E-0014 SL2-IN-E-0014 SL2-A1-E-0014 SL2-R1-E-0014 SL2-R2-E-0014 SL2-L1-E-0014
Canada	Industry Canada	3/10 meter Open Area Test Sites (IC 2324C-3, IC 2324C-5) / 3M Semi Anechoic Chamber (IC 6106) to perform	 IC 2324C-3 IC 2324C-5 IC 6106

* No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.



6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

No	Equipment	Model	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1.	USB Keyboard	Sk-8115	N/A	FCC DoC	DELL	Shielded, 1.8m	N/A
2.	USB Mouse	M-UV69a	323617-001	FCC DoC	DELL	Shielded, 1.8m	N/A
3.	Multimedia Earphone	Axis-301	N/A	FCC DoC	Labtec	Unshielded, 1.8m	N/A
4.	Bluetooth Headset (Remote)	CG-BTHS01-10	10T90020500124	N/A	COREGA	N/A	N/A

Remark:

1. *All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.*
2. *Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.*



7. FCC PART 15.247 REQUIREMENTS

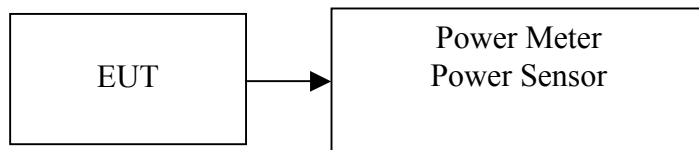
7.1 PEAK POWER

LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

1. According to §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.
2. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.
3. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the Power Meter. The Power Meter is set to the peak power detection.

TEST RESULTS

No non-compliance noted

Test Data

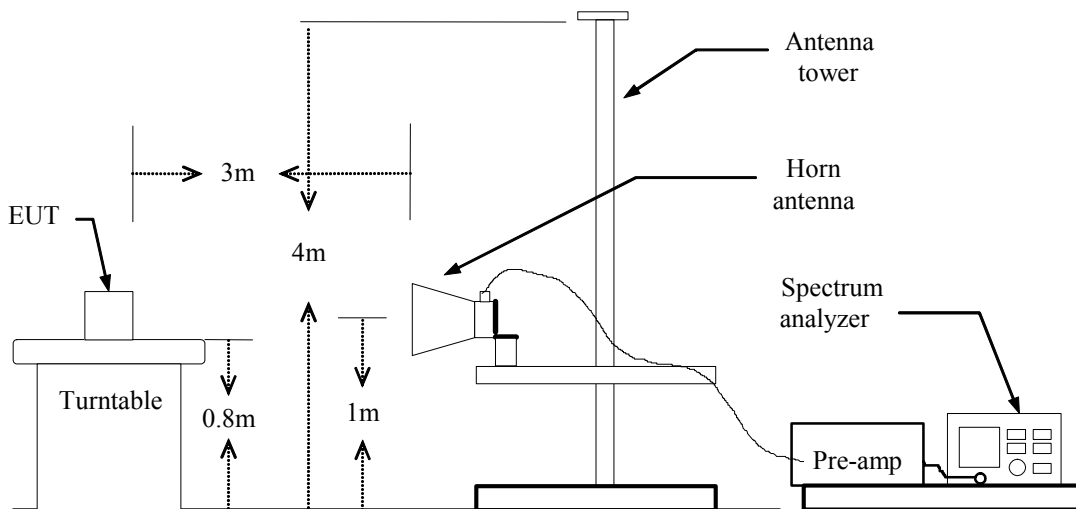
Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2402	3.56	0.0023	1	PASS
Mid	2441	3.32	0.0022		PASS
High	2480	3.32	0.0022		PASS

7.2 BAND EDGES MEASUREMENT

LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum 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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

Test Configuration



TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

TEST RESULTS

Refer to attach spectrum analyzer data chart.



Band Edges (CH Low)

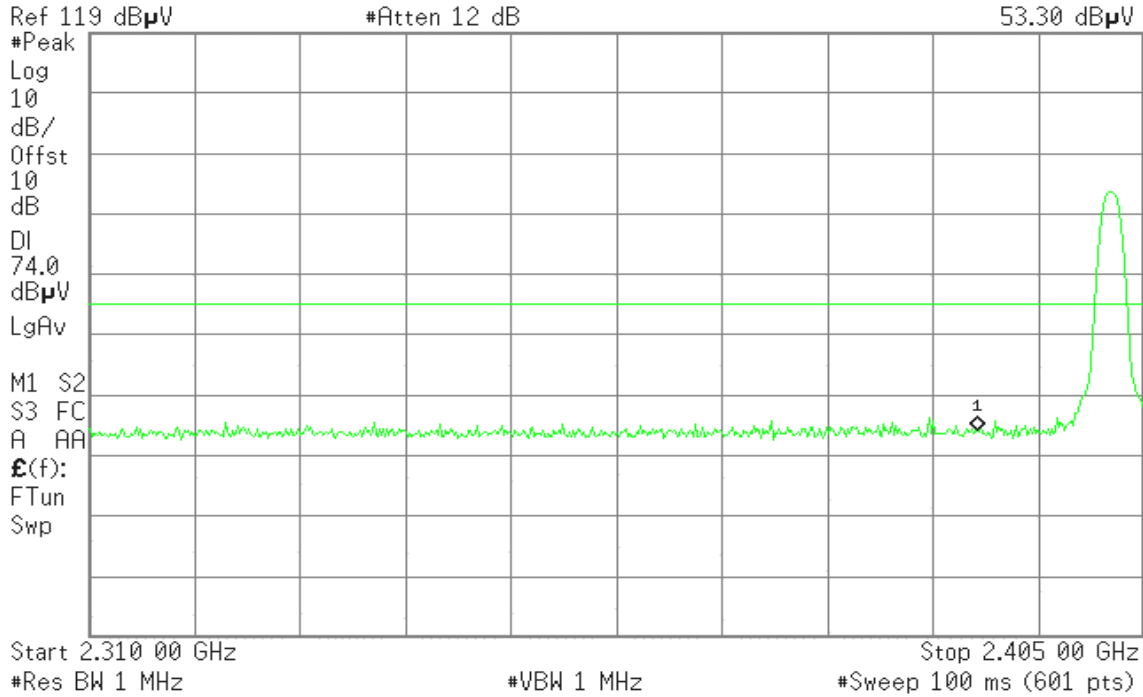
Detector mode: Peak

Polarity: Vertical

Agilent 14:09:10 Apr 16, 2007

R T

Mkr1 2.390 00 GHz
53.30 dBµV



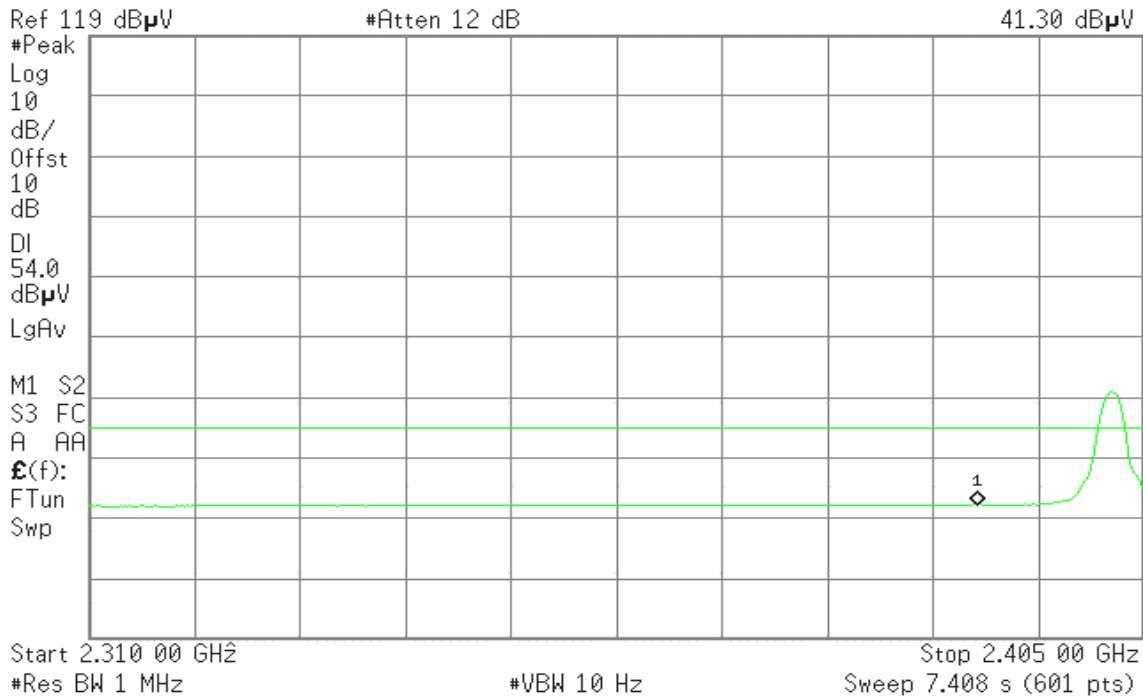
Detector mode: Average

Polarity: Vertical

Agilent 14:09:36 Apr 16, 2007

R T

Mkr1 2.390 00 GHz
41.30 dBµV





Detector mode: Peak

Polarity: Horizontal

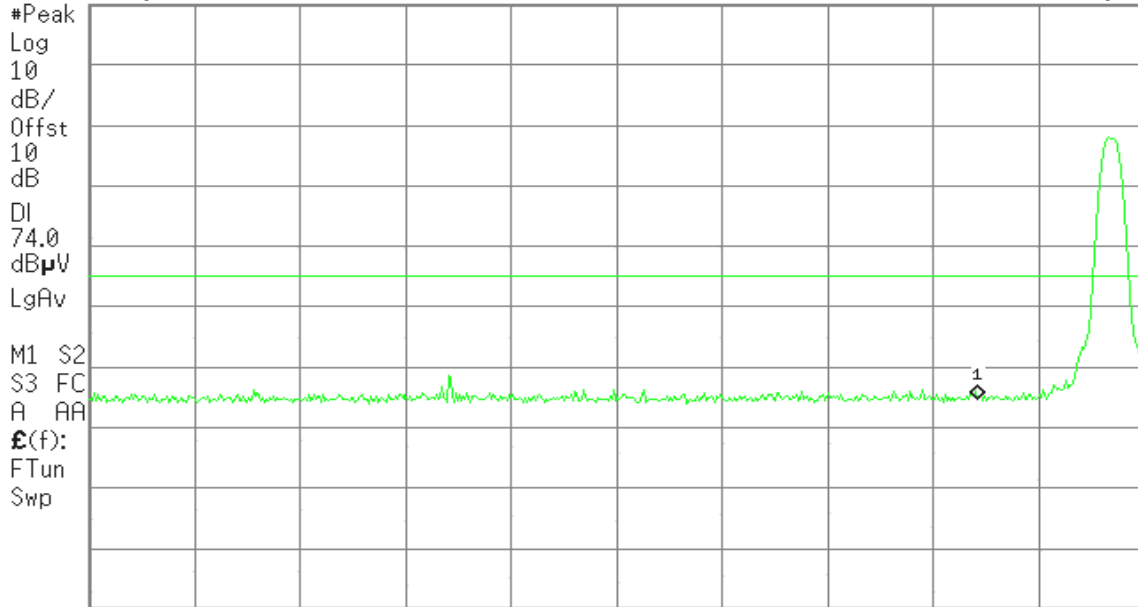
Agilent 14:12:30 Apr 16, 2007

R T

Mkr1 2.390 00 GHz
53.62 dBμV

Ref 119 dBμV

#Atten 12 dB



Start 2.310 00 GHz

Stop 2.405 00 GHz

#Res BW 1 MHz

#VBW 1 MHz

#Sweep 100 ms (601 pts)

Detector mode: Average

Polarity: Horizontal

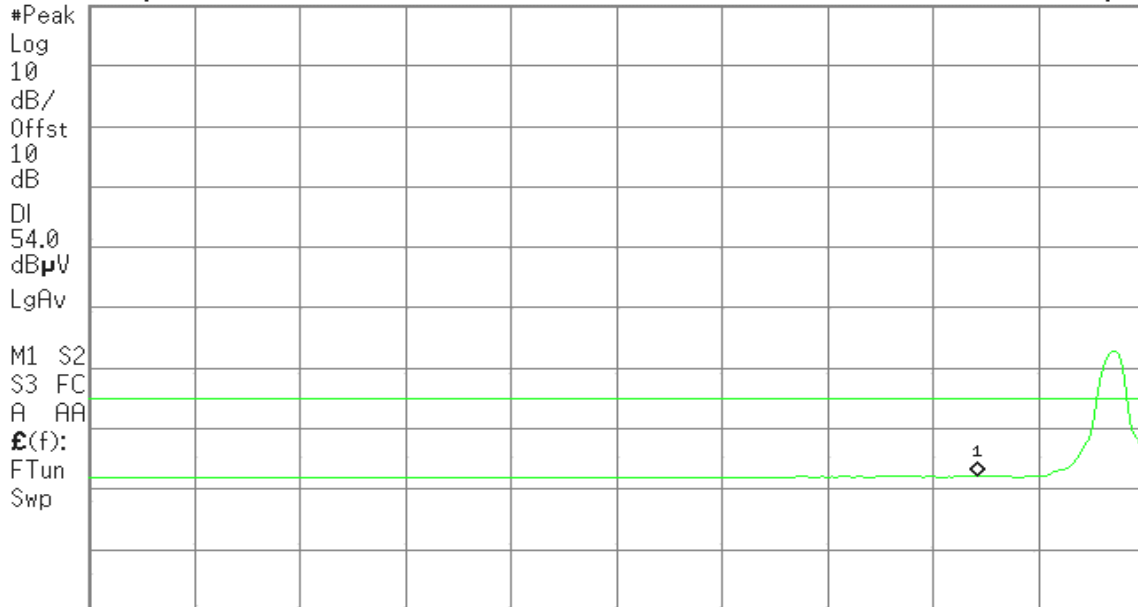
Agilent 14:12:54 Apr 16, 2007

R T

Mkr1 2.390 00 GHz
41.25 dBμV

Ref 119 dBμV

#Atten 12 dB



Start 2.310 00 GHz

Stop 2.405 00 GHz

#Res BW 1 MHz

#VBW 10 Hz

Sweep 7.408 s (601 pts)



Band Edges (CH High)

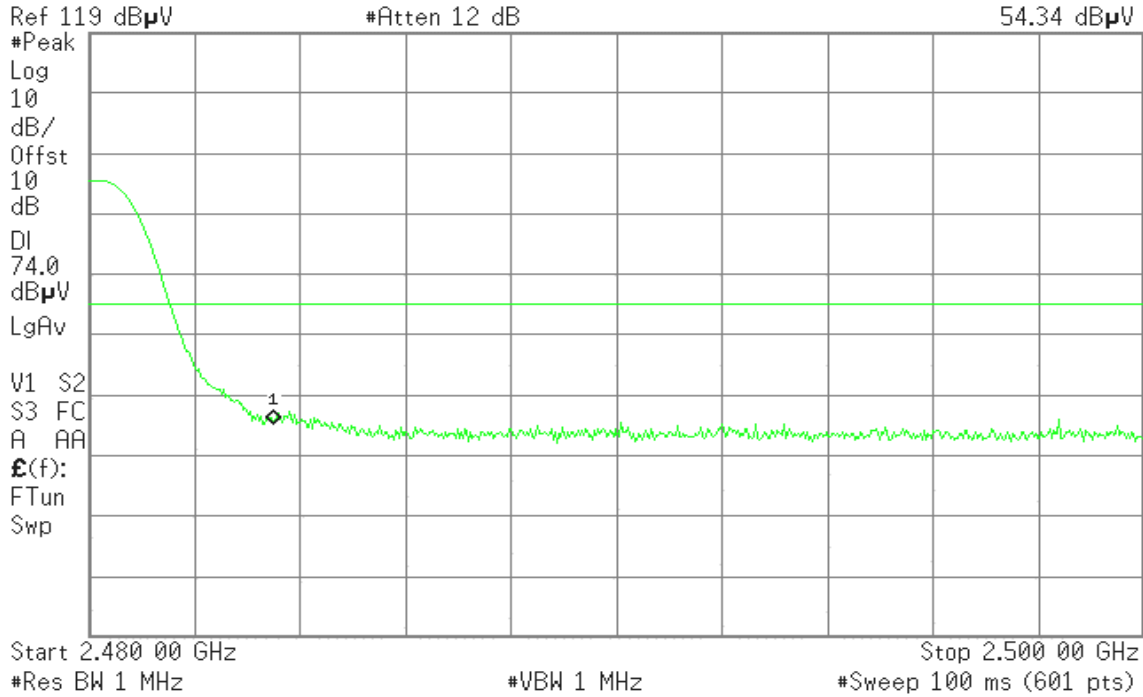
Detector mode: Peak

Polarity: Vertical

Agilent 14:22:05 Apr 16, 2007

R T

Mkr1 2.483 50 GHz
54.34 dB μ V



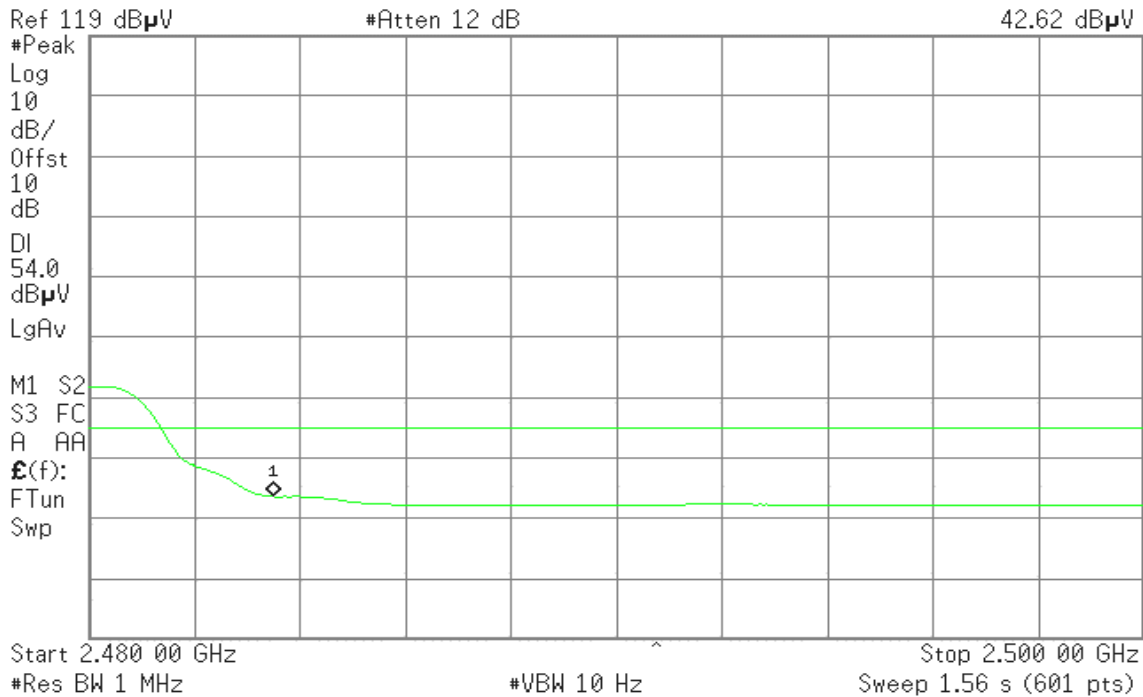
Detector mode: Average

Polarity: Vertical

Agilent 14:22:35 Apr 16, 2007

R T

Mkr1 2.483 50 GHz
42.62 dB μ V





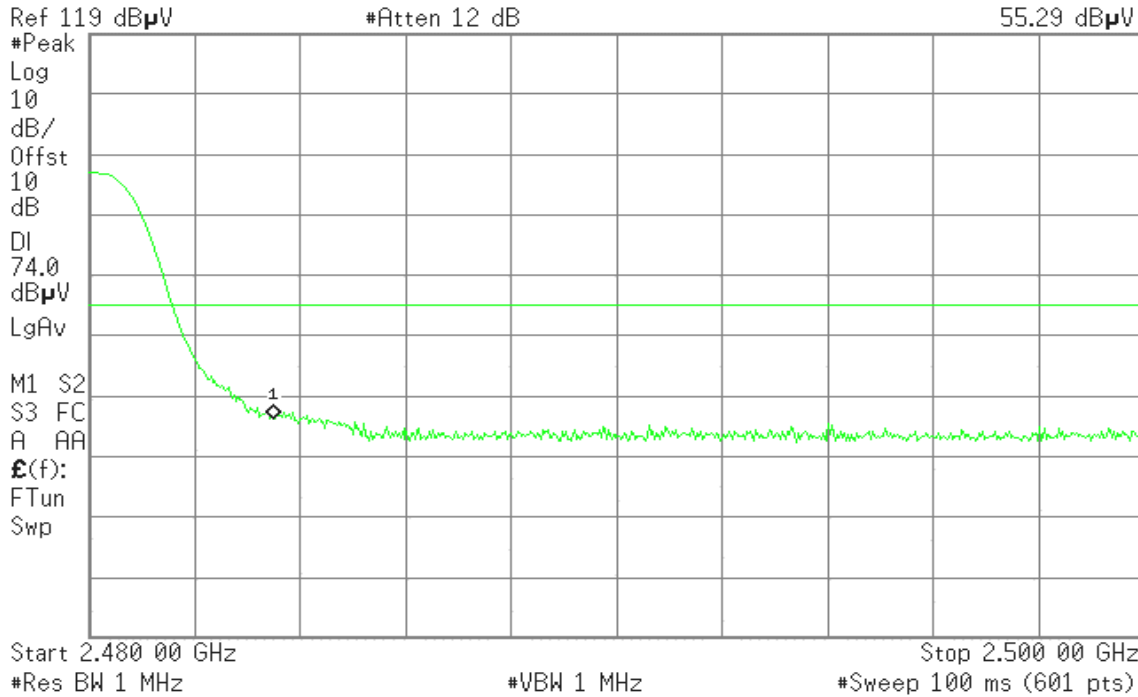
Detector mode: Peak

Polarity: Horizontal

Agilent 14:16:38 Apr 16, 2007

R T

Mkr1 2.483 50 GHz
55.29 dBμV



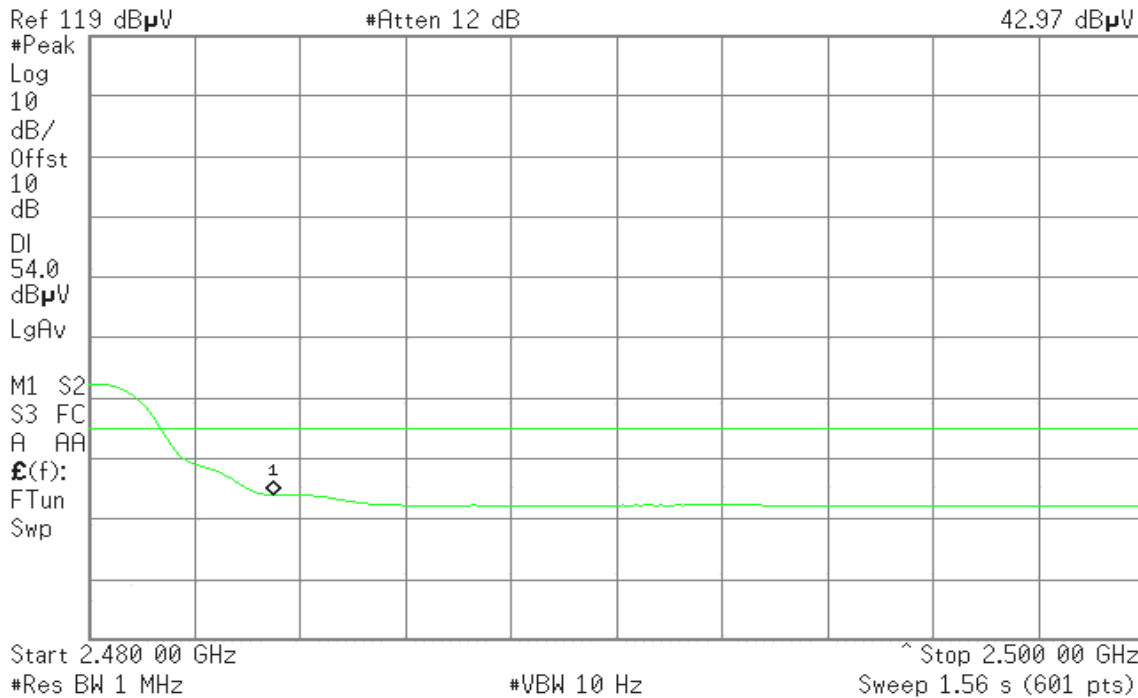
Detector mode: Average

Polarity: Horizontal

Agilent 14:18:12 Apr 16, 2007

R T

Mkr1 2.483 50 GHz
42.97 dBμV



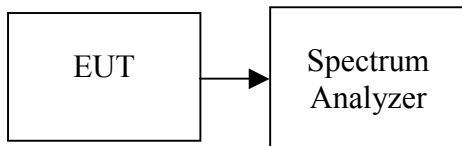


7.3 PEAK POWER SPECTRAL DENSITY

LIMIT

1. According to §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.
2. According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 300kHz, Sweep=100s
4. Record the max. reading.
5. Repeat the above procedure until the measurements for all frequencies are completed.

TEST RESULTS

No non-compliance noted

Test Data

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2402	-8.13	8.00	PASS
Mid	2441	-9.09		PASS
High	2480	-9.29		PASS



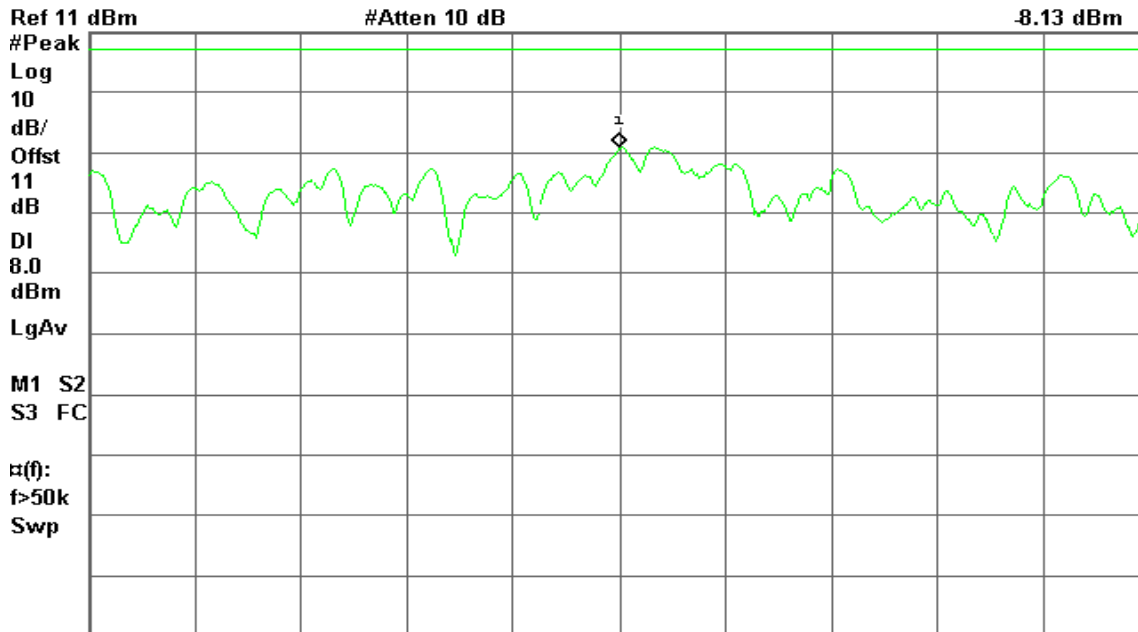
Test Plot

PPSD (CH Low)

Agilent 16:38:12 Mar 23, 2006

R T

Mkr1 2.402 023 6 GHz
8.13 dBm



Center 2.402 023 6 GHz

#Res BW 3 kHz

#VBW 10 kHz

Span 300 kHz

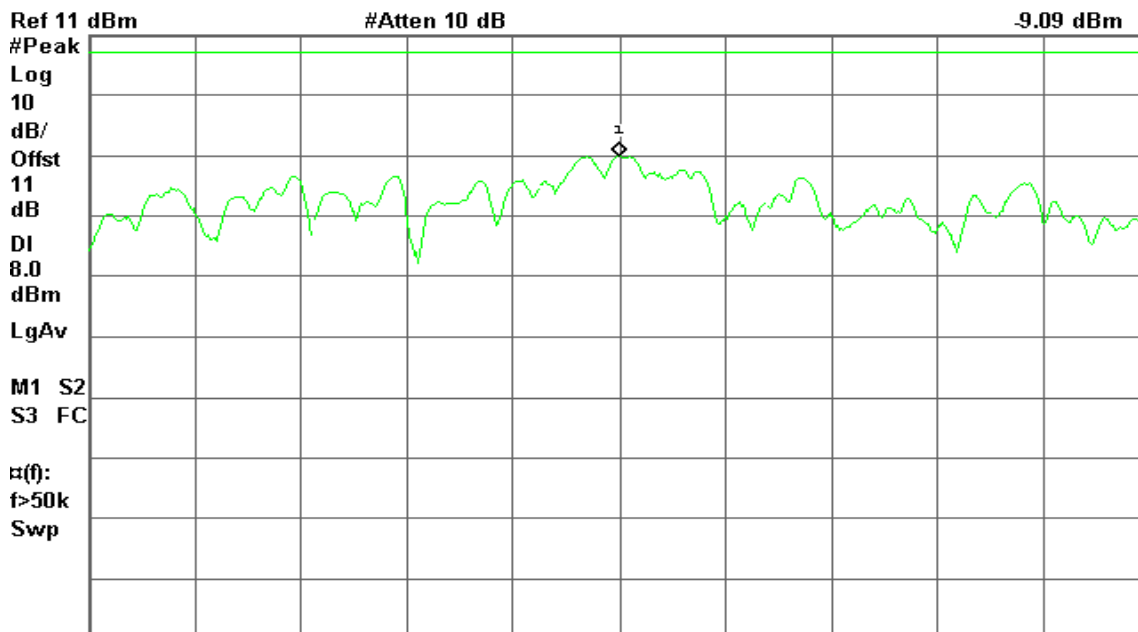
#Sweep 100 s (601 pts)

PPSD (CH Mid)

Agilent 16:43:38 Mar 23, 2006

R T

Mkr1 2.441 034 5 GHz
9.09 dBm



Center 2.441 034 5 GHz

#Res BW 3 kHz

#VBW 10 kHz

Span 300 kHz

#Sweep 100 s (601 pts)



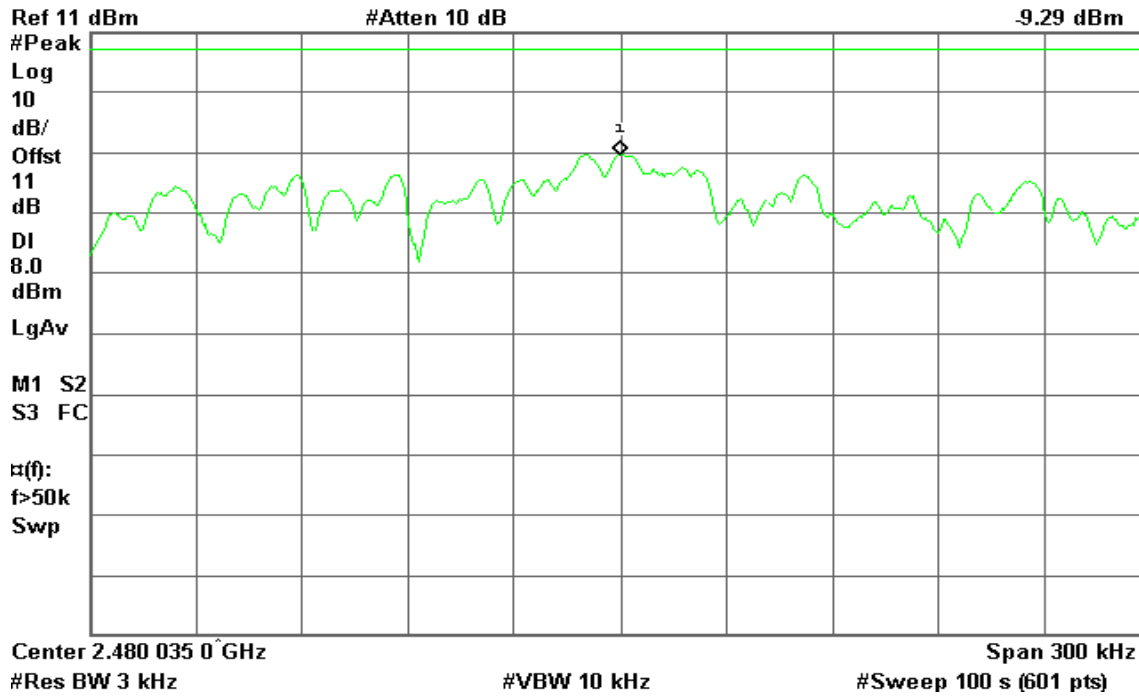
PPSD (CH High)

Agilent 16:48:23 Mar 23, 2006

R T

Mkr1 2.480 035 0 GHz

-9.29 dBm



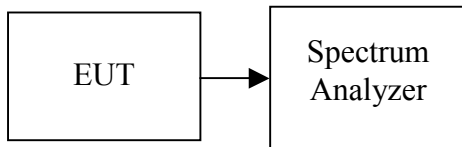


7.4 FREQUENCY SEPARATION

LIMIT

According to §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.

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = middle of hopping channel.
4. Set the spectrum analyzer as RBW = 30kHz, VBW = 100kHz, Span = 3MHz, Sweep = auto.
5. Max hold, mark 3 peaks of hopping channel and record the 3 peaks frequency.

TEST RESULTS

No non-compliance noted

Test Data

Channel Separation (MHz)	20dB Bandwidth (kHz)	Channel Separation Limit	Result
1.00	835	> 20dB Bandwidth or	Pass

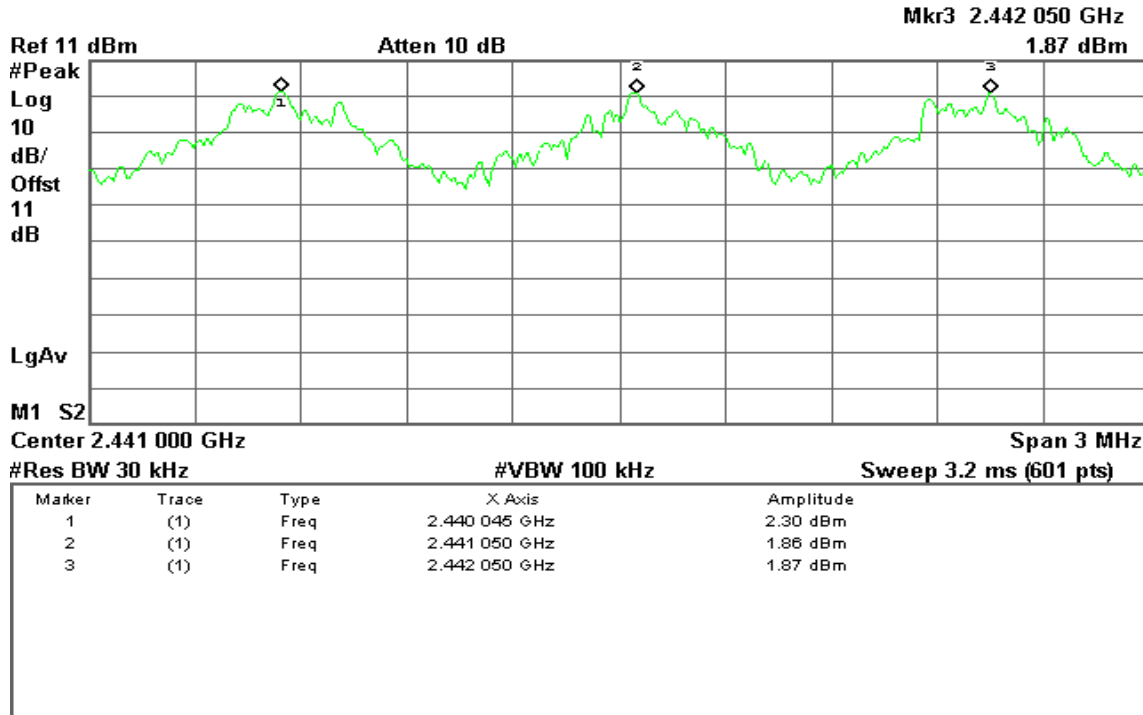


Test Plot

Measurement of Channel Separation

Agilent 20:58:00 Mar 14, 2006

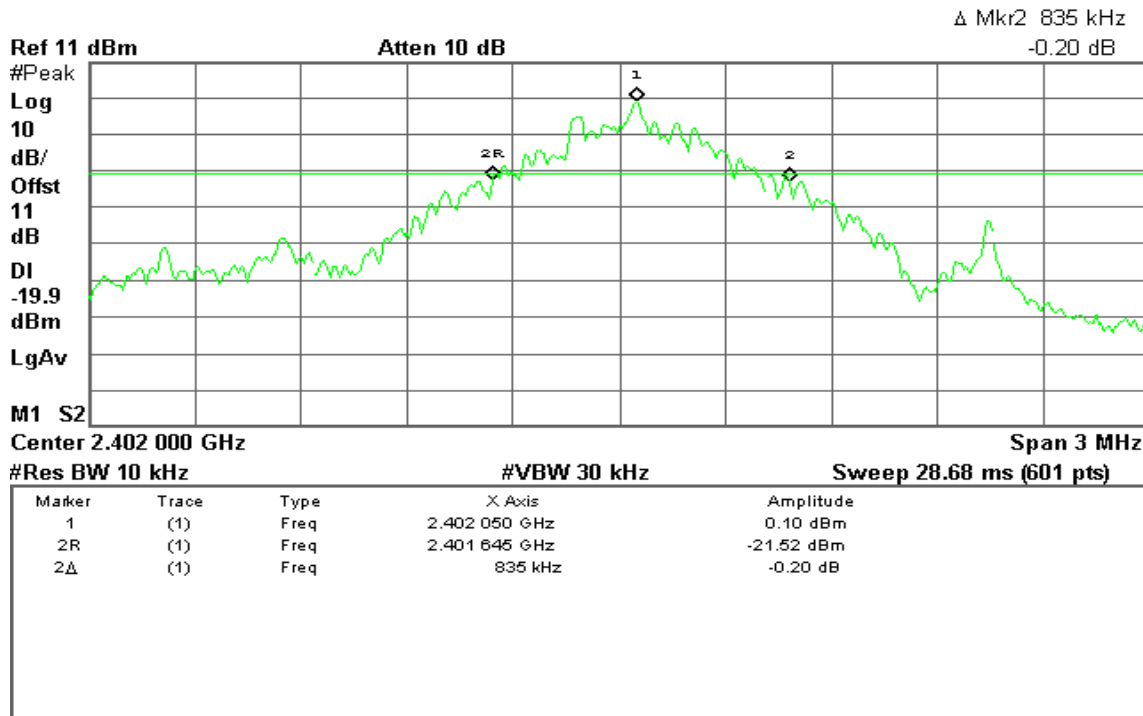
R T



Measurement of 20dB Bandwidth

Agilent 19:52:40 Mar 14, 2006

R T



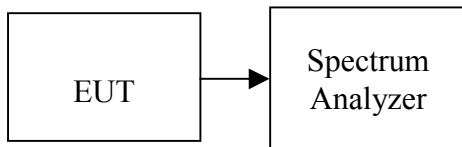


7.5 NUMBER OF HOPPING FREQUENCY

LIMIT

According to §15.247(a)(1)(ii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 75 hopping frequencies.

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set spectrum analyzer Start=2400MHz, Stop = 2441.5MHz, Sweep = auto and Start=2441.5MHz, Stop = 2483.5MHz, Sweep = auto.
4. Set the spectrum analyzer as RBW, VBW=510kHz.
5. Max hold, view and count how many channel in the band.

TEST RESULTS

No non-compliance noted

Test Data

Result (No. of CH)	Limit (No. of CH)	Result
79	>75	PASS



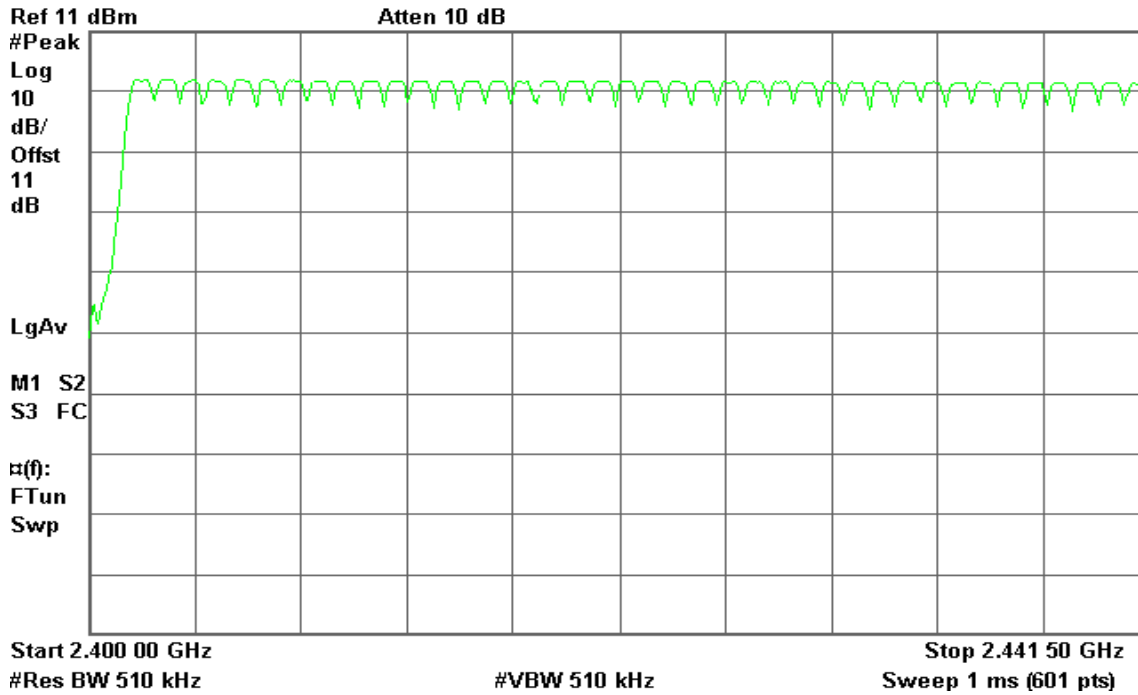
Test Plot

Channel Number

2.4 GHz – 2.4415 GHz

Agilent 20:18:00 Mar 14, 2006

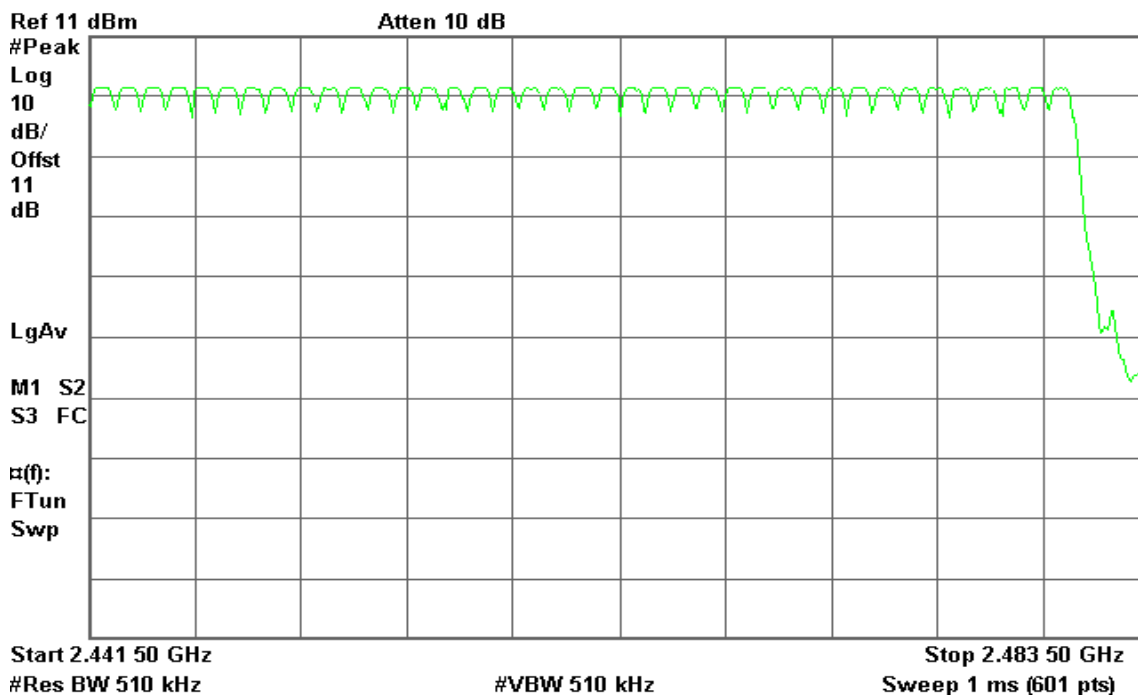
R T



2.4415 GHz – 2.4835 GHz

Agilent 20:19:25 Mar 14, 2006

R T

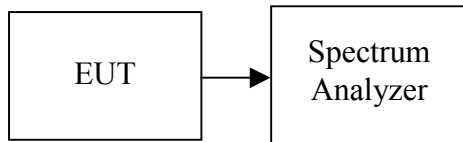


7.6 TIME OF OCCUPANCY (DWELL TIME)

LIMIT

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.
5. Repeat above procedures until all frequency measured were complete.



TEST RESULTS

No non-compliance noted

Test Data

DH 1

CH Low: $0.42 * (1600/2)/79 * 31.60 = 134.40$ (ms)

CH Mid: $0.42 * (1600/2)/79 * 31.60 = 134.40$ (ms)

CH High: $0.42 * (1600/2)/79 * 31.60 = 134.40$ (ms)

CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Low	0.42	134.40	31.60	400.00	PASS
Mid	0.42	134.40	31.60		PASS
High	0.42	134.40	31.60		PASS

DH 3

CH Low: $1.68 * (1600/4)/79 * 31.60 = 268.80$ (ms)

CH Mid: $1.67 * (1600/4)/79 * 31.60 = 267.20$ (ms)

CH High: $1.68 * (1600/4)/79 * 31.60 = 268.80$ (ms)

CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Low	1.68	268.80	31.60	400.00	PASS
Mid	1.67	267.20	31.60		PASS
High	1.68	268.80	31.60		PASS

DH 5

CH Low: $2.92 * (1600/6)/79 * 31.60 = 311.47$ (ms)

CH Mid: $2.92 * (1600/6)/79 * 31.60 = 311.47$ (ms)

CH High: $2.93 * (1600/6)/79 * 31.60 = 312.53$ (ms)

CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Low	2.92	311.47	31.60	400.00	PASS
Mid	2.92	311.547	31.60		PASS
High	2.93	312.53	31.60		PASS



Test Plot

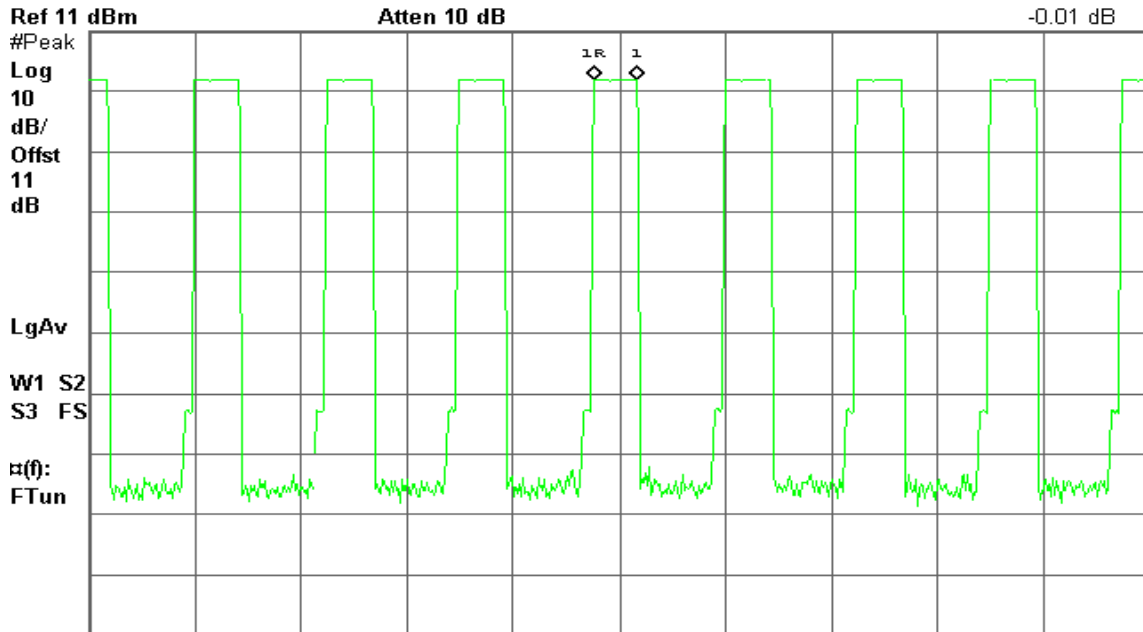
DH 1

(CH Low)

Agilent 21:19:23 Mar 14, 2006

R T

Δ Mkr1 416.7 μs
-0.01 dB

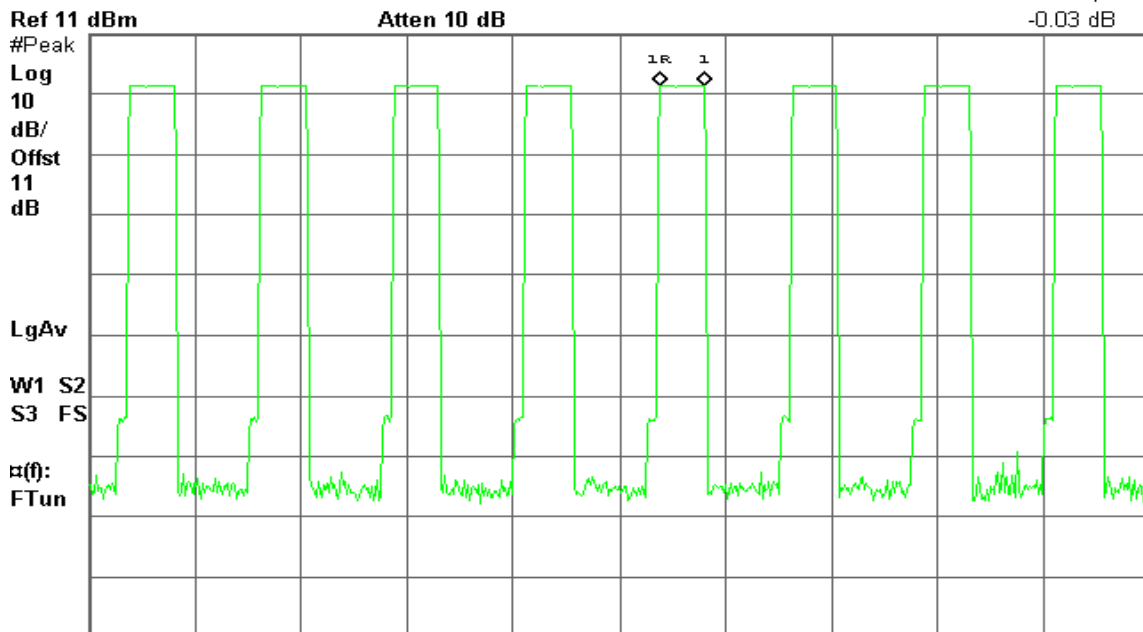


(CH Mid)

Agilent 21:18:31 Mar 14, 2006

R T

Δ Mkr1 416.7 μs
-0.03 dB



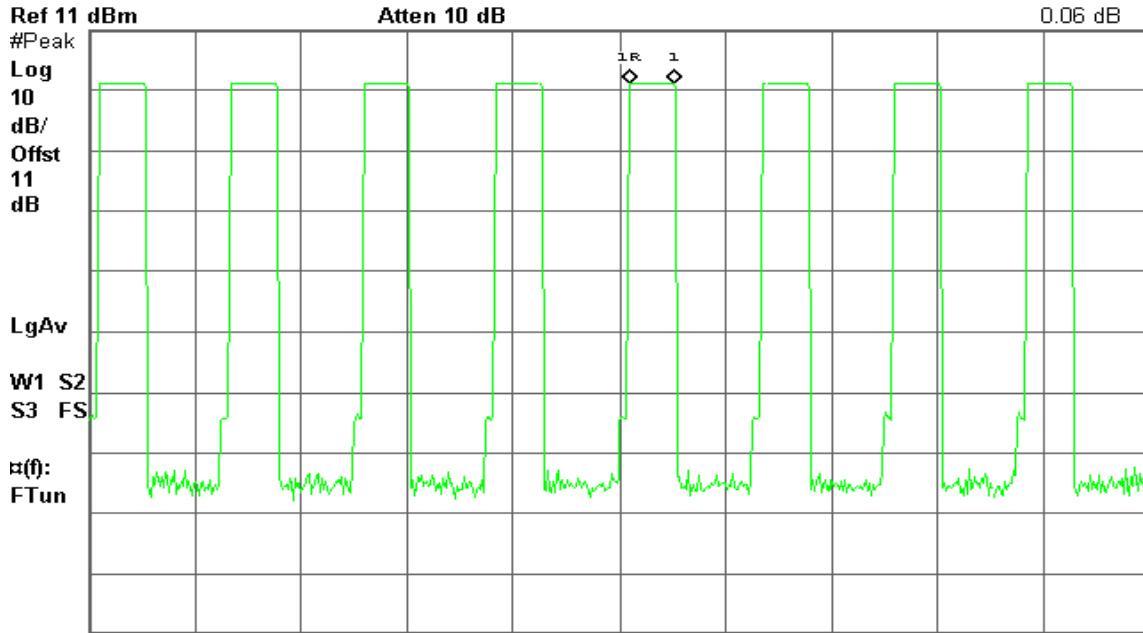


(CH High)

Agilent 21:17:28 Mar 14, 2006

R T

Δ Mkr1 416.7 μs
0.06 dB



Center 2.480 000 GHz

Res BW 1 MHz

#VBW 1 MHz

Span 0 Hz

Sweep 10 ms (601 pts)

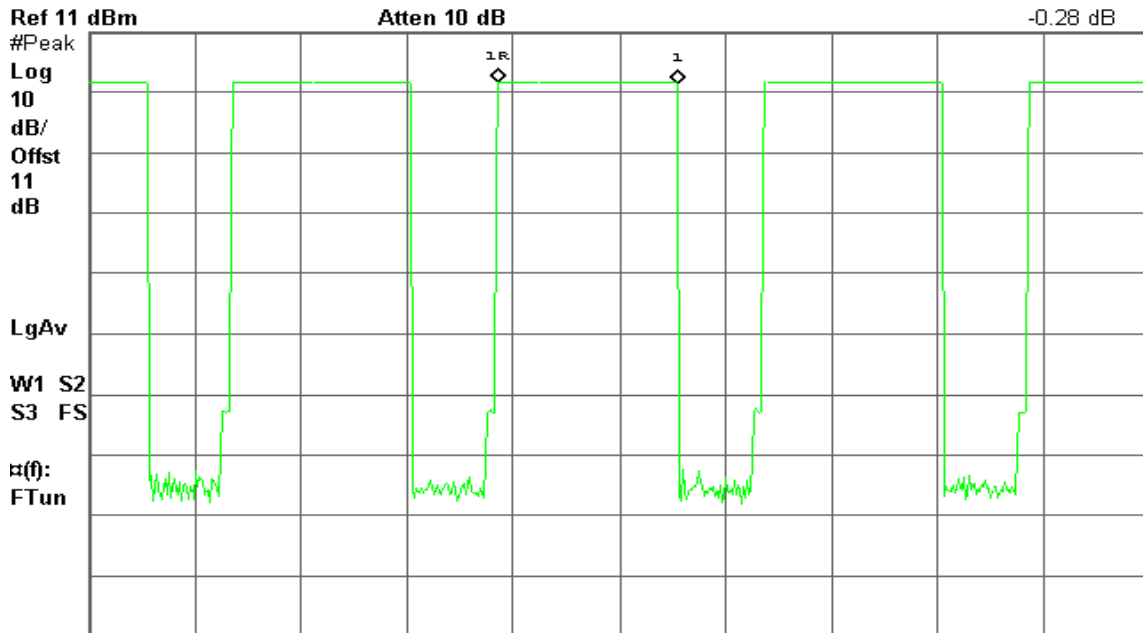
DH 3

(CH Low)

Agilent 21:13:58 Mar 14, 2006

R T

Δ Mkr1 1.683 ms
-0.28 dB



Center 2.402 000 GHz

Res BW 1 MHz

#VBW 1 MHz

Span 0 Hz

Sweep 10 ms (601 pts)

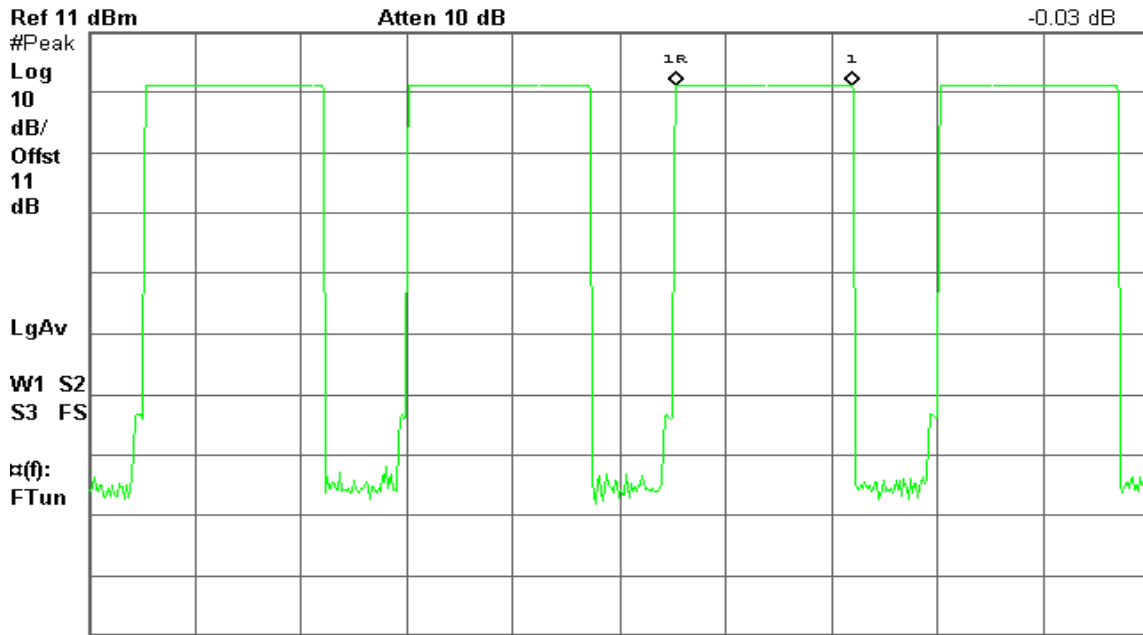


(CH Mid)

Agilent 21:15:02 Mar 14, 2006

R T

Δ Mkr1 1.667 ms
-0.03 dB



Center 2.441 000 GHz

Res BW 1 MHz

#VBW 1 MHz

Sweep 10 ms (601 pts)

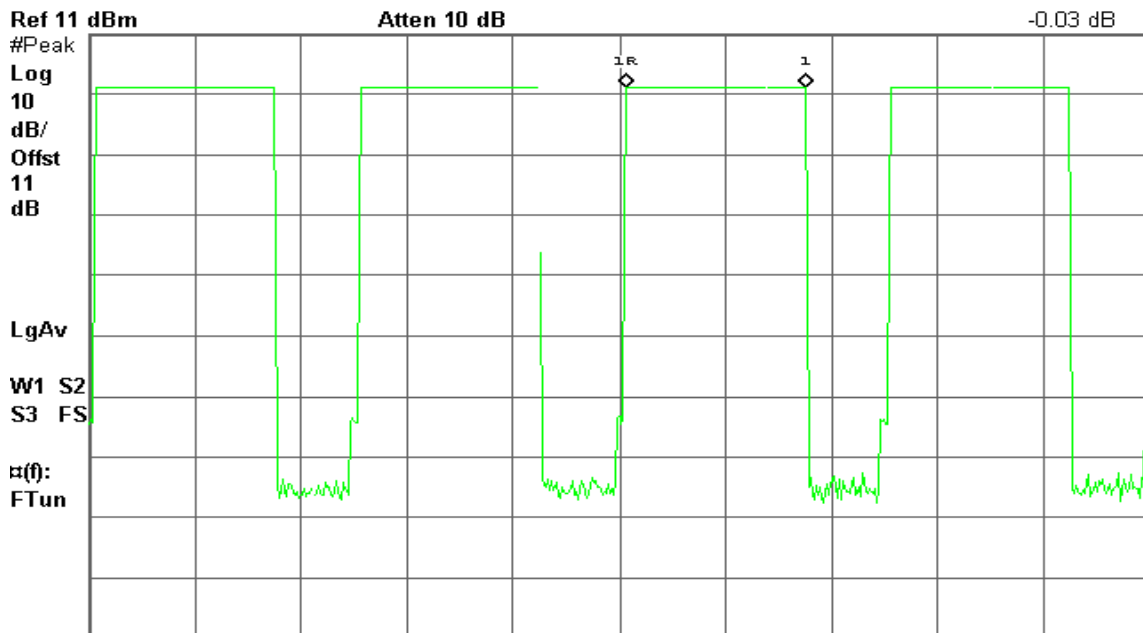
Span 0 Hz

(CH High)

Agilent 21:16:09 Mar 14, 2006

R L

Δ Mkr1 1.683 ms
-0.03 dB



Center 2.480 000 GHz

Res BW 1 MHz

#VBW 1 MHz

Sweep 10 ms (601 pts)

Span 0 Hz



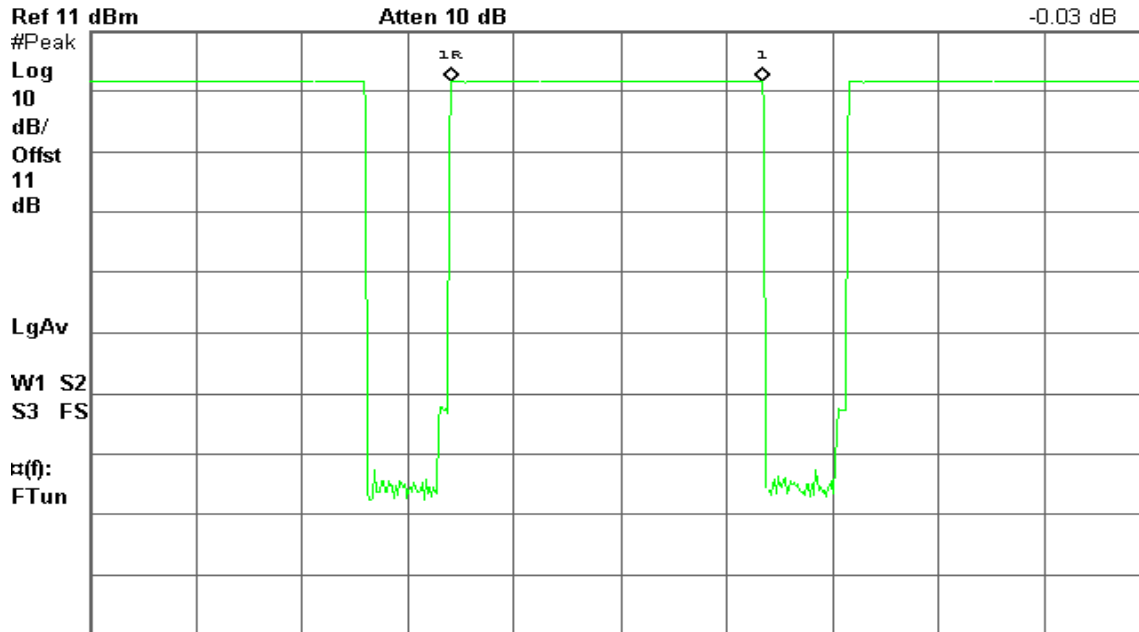
DH 5

(CH Low)

Agilent 21:21:00 Mar 14, 2006

R T

Δ Mkr1 2.917 ms
-0.03 dB

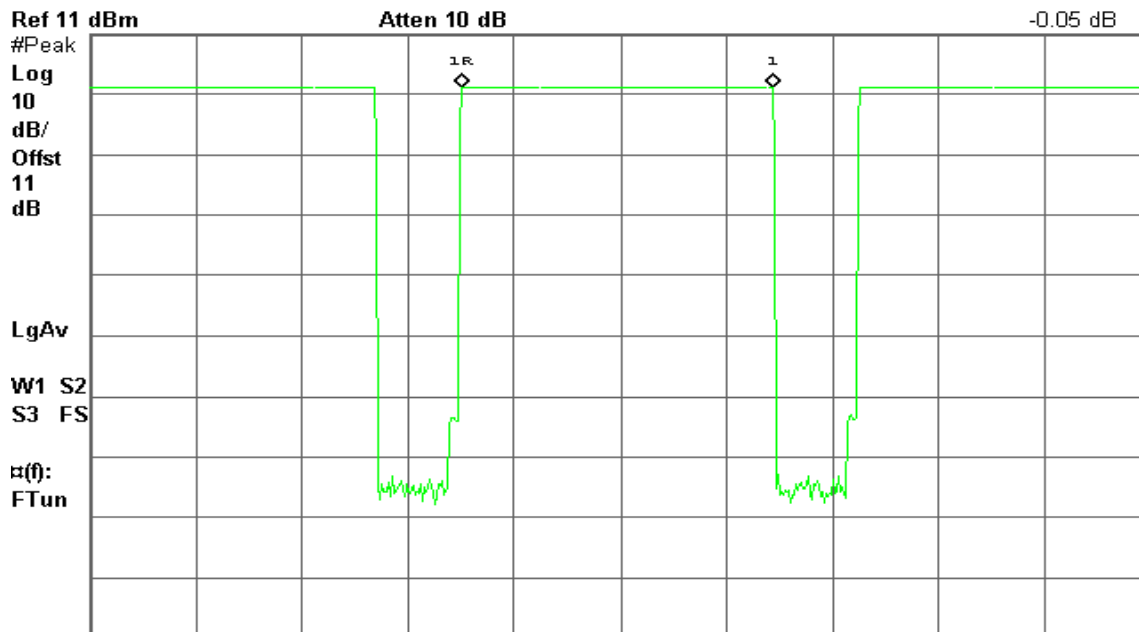


(CH Mid)

Agilent 21:22:11 Mar 14, 2006

R T

Δ Mkr1 2.917 ms
-0.05 dB



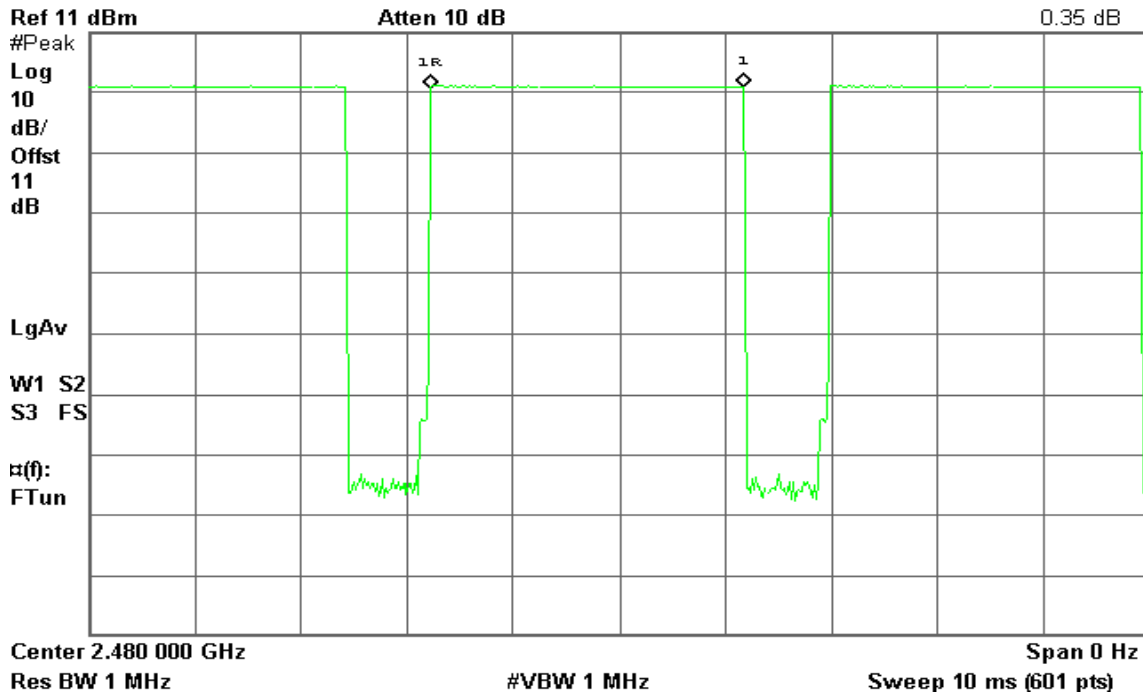


(CH High)

Agilent 21:23:08 Mar 14, 2006

R T

Δ Mkr1 2.933 ms
0.35 dB





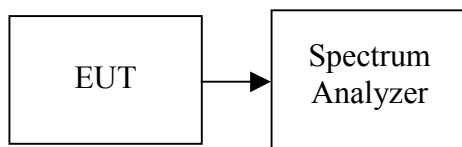
7.7 SPURIOUS EMISSIONS

7.7.1 Conducted Measurement

LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum 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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

Test Configuration



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 100 kHz.

Measurements are made over the 30MHz to 25GHz range with the transmitter set to the lowest, middle, and highest channels.

TEST RESULTS

No non-compliance noted

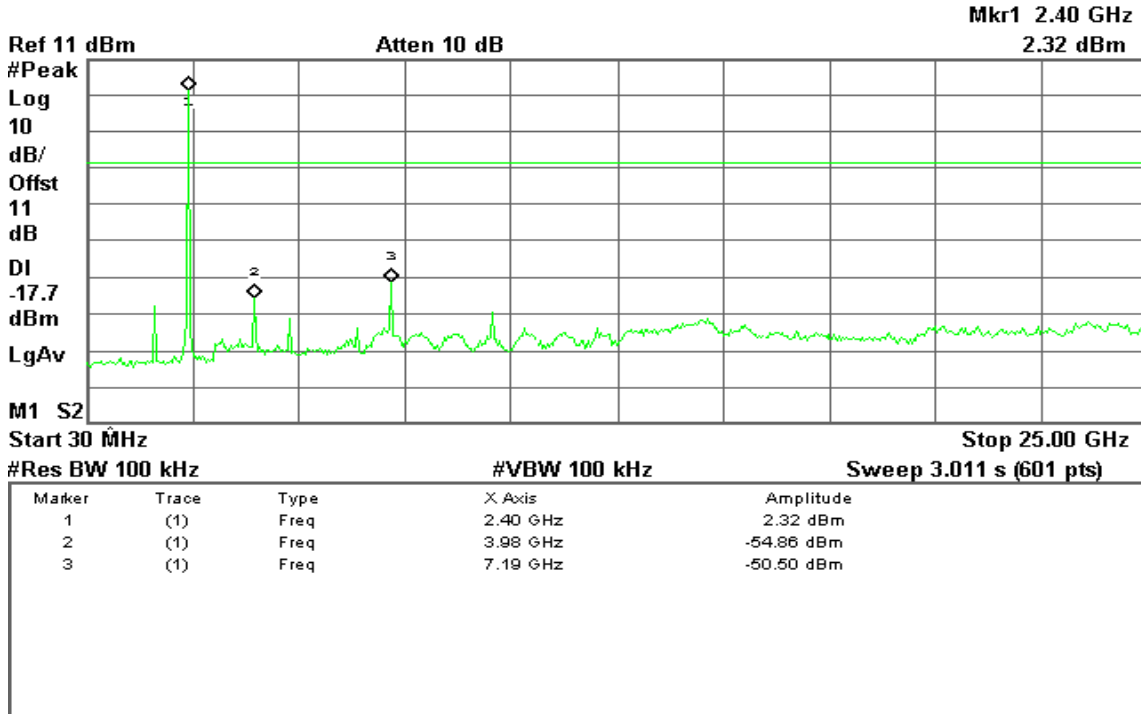


Test Plot

CH Low

Agilent 20:51:23 Mar 14, 2006

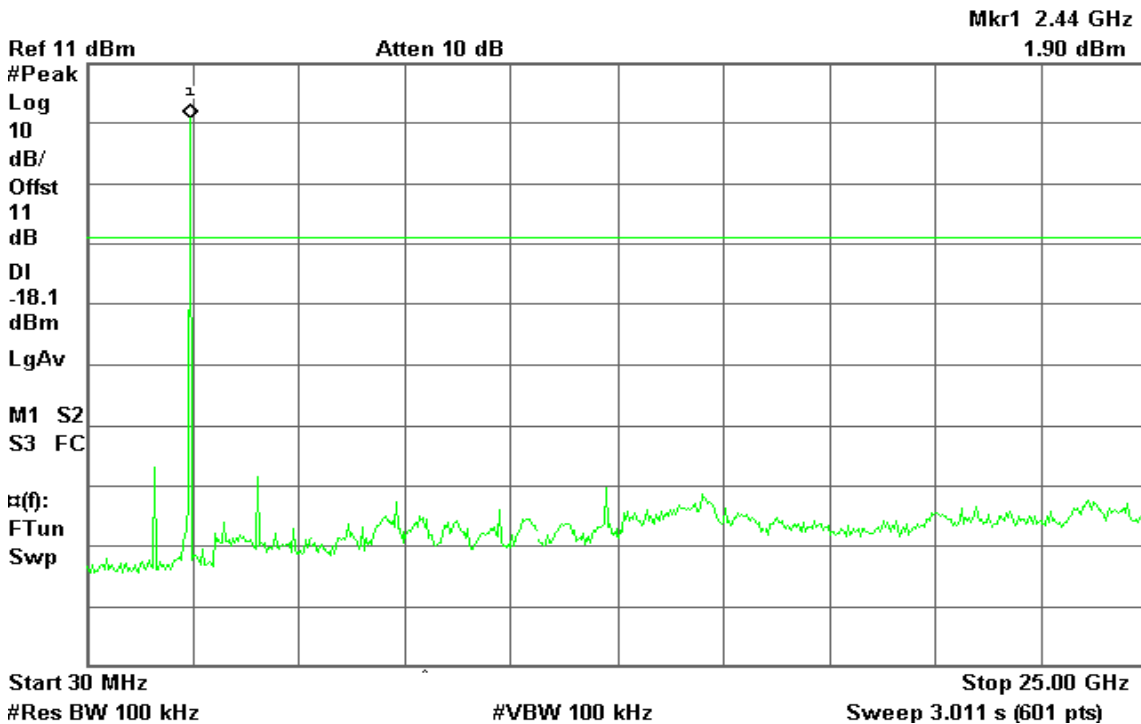
R T



CH Mid

Agilent 20:52:40 Mar 14, 2006

R T



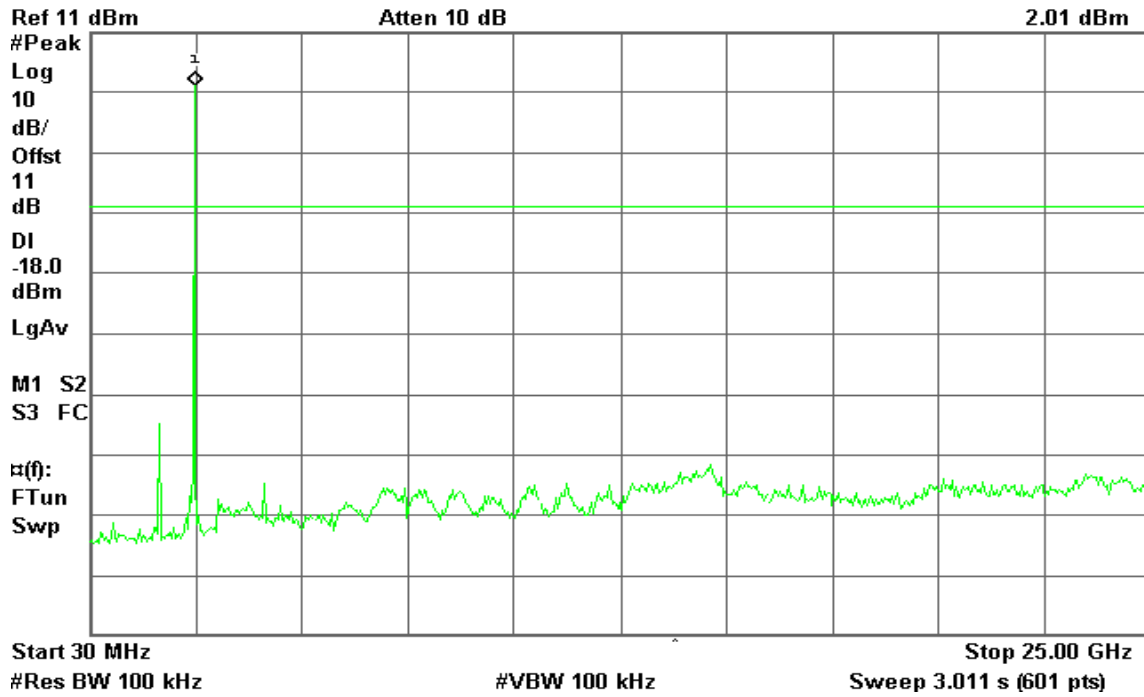


CH High

Agilent 20:53:29 Mar 14, 2006

R T

Mkr1 2.49 GHz
2.01 dBm





7.7.2 Radiated Emissions

LIMIT

1. According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

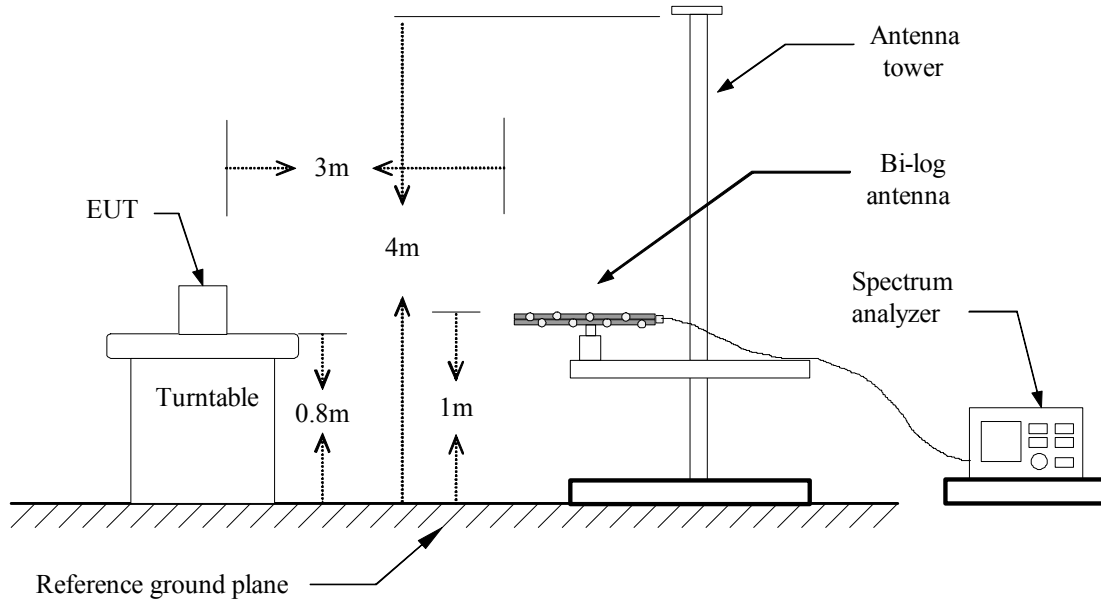
Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

2. In the emission table above, the tighter limit applies at the band edges.

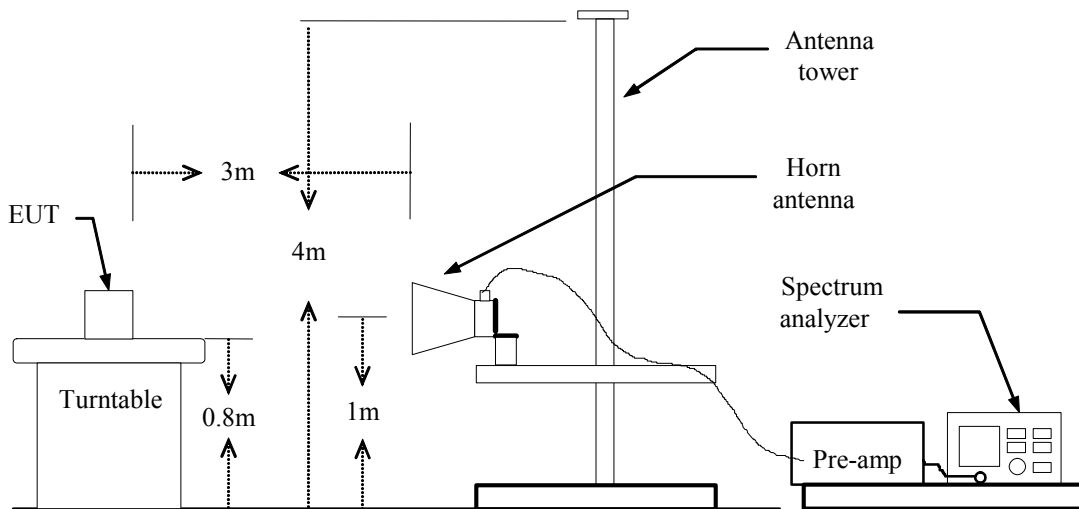
Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$ at 3-meter)	Field Strength (dB $\mu\text{V}/\text{m}$ at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Test Configuration

Below 1 GHz



Above 1 GHz





TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:
Below 1GHz:
RBW=100kHz / VBW=300kHz / Sweep=AUTO
Above 1GHz:
(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
7. Repeat above procedures until the measurements for all frequencies are complete.

**TEST RESULTS***No non-compliance noted***Below 1 GHz****Operation Mode:** Normal Link**Test Date:** April 19, 2007**Temperature:** 20°C**Tested by:** Nan Tsai**Humidity:** 50 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
39.70	V	47.93	-12.70	35.23	40.00	-4.77	QP
107.60	V	43.76	-14.67	29.09	43.50	-14.41	QP
241.78	V	44.02	-14.61	29.41	46.00	-16.59	QP
597.45	V	38.66	-6.21	32.46	46.00	-13.54	QP
633.02	V	38.32	-5.32	33.00	46.00	-13.00	QP
699.30	V	35.74	-4.97	30.77	46.00	-15.23	QP
39.70	H	37.33	-12.70	24.63	40.00	-15.37	QP
240.17	H	40.30	-14.62	25.68	46.00	-20.32	QP
479.43	H	41.06	-7.71	33.36	46.00	-12.64	QP
720.32	H	39.73	-4.30	35.43	46.00	-10.57	QP
802.77	H	34.79	-3.09	31.70	46.00	-14.30	QP
959.58	H	33.69	-1.04	32.65	46.00	-13.35	QP

Remark:

1. *Measuring frequencies from 30 MHz to the 1GHz.*
2. *Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.*
3. *Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).*



Above 1 GHz

Operation Mode: TX / CH Low

Test Date: April 19, 2007

Temperature: 20°C

Tested by: Nan Tsai

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
1396.67	V	53.73	---	-10.14	43.59	---	74.00	54.00	-10.41	Peak
1793.33	V	52.34	---	-7.06	45.28	---	74.00	54.00	-8.72	Peak
2201.67	V	47.39	---	-4.50	42.89	---	74.00	54.00	-11.11	Peak
7206.67	V	44.94	---	3.60	48.54	---	74.00	54.00	-5.46	Peak
N/A										
1396.67	H	57.56	---	-10.14	47.42	---	74.00	54.00	-6.58	Peak
2003.33	H	47.90	---	-5.00	42.91	---	74.00	54.00	-11.09	Peak
4803.33	H	43.20	---	0.53	43.73	---	74.00	54.00	-10.27	Peak
7206.67	H	46.50	---	3.60	50.10	---	74.00	54.00	-3.90	Peak
13366.67	H	40.22	---	12.36	52.58	---	74.00	54.00	-1.42	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: TX / CH Mid

Test Date: April 19, 2007

Temperature: 20°C

Tested by: Nan Tsai

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
1396.67	V	52.64	---	-10.14	42.50	---	74.00	54.00	-11.50	Peak
1793.33	V	51.05	---	-7.06	43.99	---	74.00	54.00	-10.01	Peak
2201.67	V	46.04	---	-4.50	41.54	---	74.00	54.00	-12.46	Peak
4885.00	V	43.25	---	0.61	43.87	---	74.00	54.00	-10.13	Peak
N/A										
1396.67	H	56.04	---	-10.14	45.90	---	74.00	54.00	-8.10	Peak
2003.33	H	47.88	---	-5.00	42.88	---	74.00	54.00	-11.12	Peak
5060.00	H	42.75	---	0.81	43.56	---	74.00	54.00	-10.44	Peak
7323.33	H	44.41	---	3.38	47.79	---	74.00	54.00	-6.21	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



Operation Mode: TX / CH High

Test Date: April 19, 2007

Temperature: 20°C

Tested by: Nan Tsai

Humidity: 50 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
1396.67	V	55.71	---	-10.14	45.57	---	74.00	54.00	-8.43	Peak
1793.33	V	51.95	---	-7.06	44.89	---	74.00	54.00	-9.11	Peak
1991.67	V	47.77	---	-5.09	42.68	---	74.00	54.00	-11.32	Peak
4535.00	V	43.88	---	0.27	44.16	---	74.00	54.00	-9.84	Peak
6926.67	V	44.17	---	3.85	48.01	---	74.00	54.00	-5.99	Peak
N/A										
1396.67	H	59.35	---	-10.14	49.21	---	74.00	54.00	-4.79	Peak
2003.33	H	48.73	---	-5.00	43.73	---	74.00	54.00	-10.27	Peak
5258.33	H	43.10	---	1.08	44.18	---	74.00	54.00	-9.82	Peak
N/A										

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



7.8 POWERLINE CONDUCTED EMISSIONS

LIMIT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

* Decreases with the logarithm of the frequency.

Test Configuration

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

TEST 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.



TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Test Data

Operation Mode: Normal Link

Test Date: April 13, 2007

Temperature: 25°C

Tested by: Robert Huang

Humidity: 55% RH

Freq. (MHz)	QP Reading (dBuV)	AV Reading (dBuV)	Corr. factor (dB)	QP Result (dBuV)	AV Result (dBuV)	QP Limit (dBuV)	AV Limit (dBuV)	QP Margin (dB)	AV Margin (dB)	Note
0.151	30.590	21.560	10.051	40.641	31.611	65.945	55.945	-25.304	-24.334	L1
0.179	39.700	35.440	10.067	49.767	45.507	64.532	54.532	-14.765	-9.025	L1
0.240	32.650	28.990	10.084	42.734	39.074	62.096	52.096	-19.362	-13.022	L1
3.721	12.780	9.030	10.203	22.983	19.233	56.000	46.000	-33.017	-26.767	L1
6.983	18.740	15.040	10.309	29.049	25.349	60.000	50.000	-30.951	-24.651	L1
9.605	24.920	20.420	10.360	35.280	30.780	60.000	50.000	-24.720	-19.220	L1
0.179	44.290	43.690	10.062	54.352	53.752	64.532	54.532	-10.180	-0.780	L2
0.236	37.620	36.980	10.077	47.697	47.057	62.236	52.236	-14.539	-5.179	L2
0.298	31.020	30.460	10.090	41.110	40.550	60.298	50.298	-19.189	-9.749	L2
2.600	12.920	2.370	10.158	23.078	12.528	56.000	46.000	-32.922	-33.472	L2
6.397	21.610	18.170	10.292	31.902	28.462	60.000	50.000	-28.098	-21.538	L2
10.998	15.180	13.090	10.500	25.680	23.590	60.000	50.000	-34.320	-26.410	L2

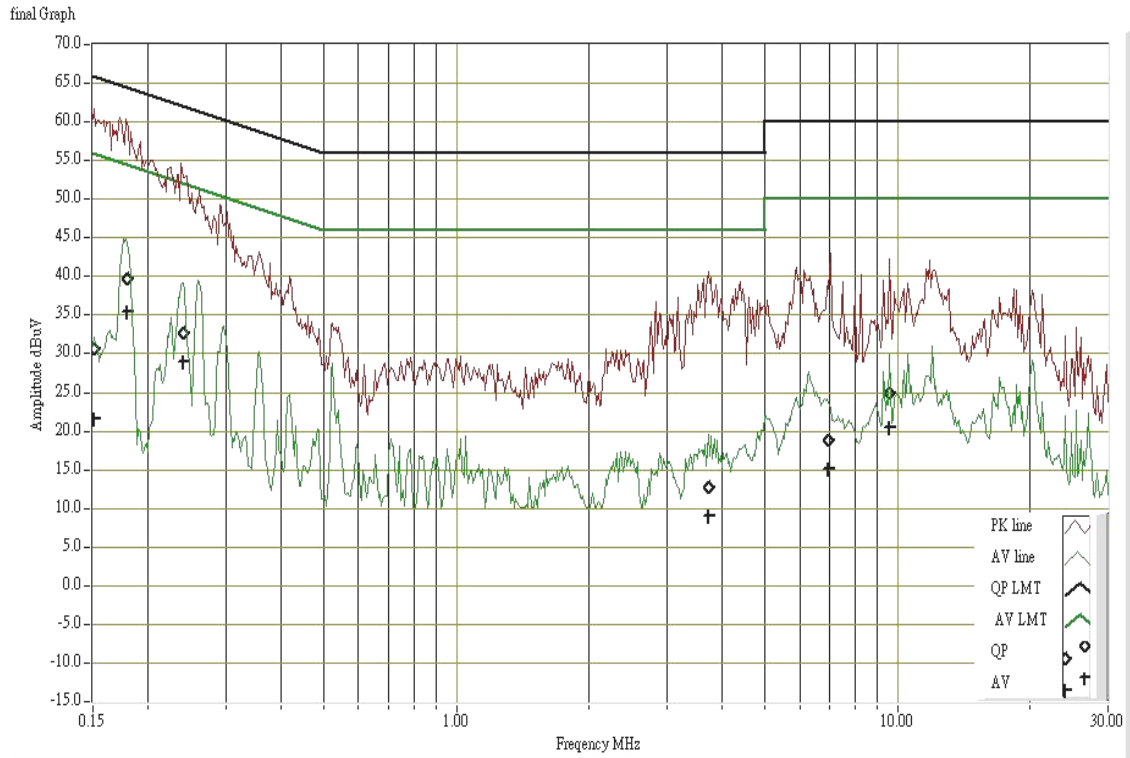
Remark:

1. Measuring frequencies from 0.15 MHz to 30MHz.
2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
3. The IF bandwidth of SPA between 0.15MHz and 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz and 30MHz was 9kHz;
4. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)

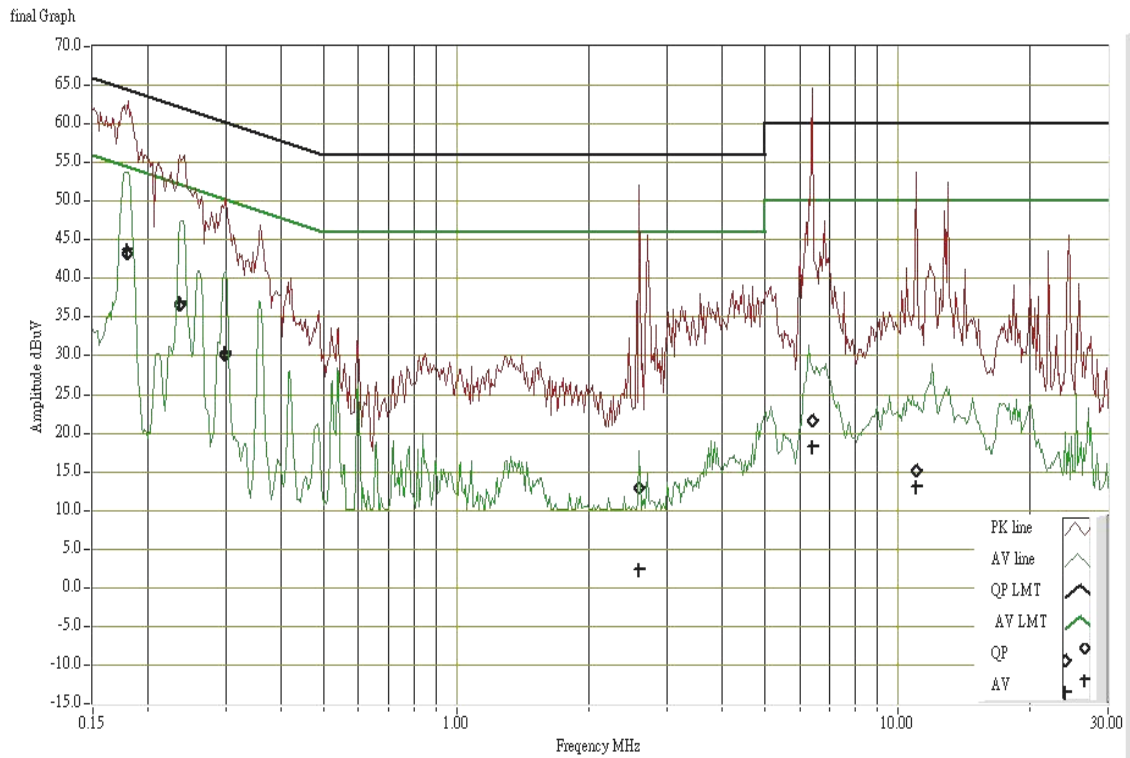


Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)





APPENDIX I RADIO FREQUENCY EXPOSURE

LIMIT

According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

EUT Specification

EUT	Ultra Mobile PC
Frequency band (Operating)	<input type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input type="checkbox"/> WLAN: 5.745GHz ~ 5.825GHz <input checked="" type="checkbox"/> Others: <u>Bluetooth: 2.402GHz ~ 2.480GHz</u>
Device category	<input checked="" type="checkbox"/> Portable (<20cm separation) <input type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others _____
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure ($S = 5mW/cm^2$) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure ($S = 1mW/cm^2$)
Antenna diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
Max. output power	3.56 dBm (2.27mW)
Antenna gain (Max)	2.0 dBi (Numeric gain: 1.58)
Evaluation applied	<input type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation <input checked="" type="checkbox"/> N/A*

Remark:

1. The maximum output power is 3.56dBm (2.27mW) at 2480MHz (with 1.58 numeric antenna gain.)
2. DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.
3. For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is $1.0 mW/cm^2$ even if the calculation indicates that the power density would be larger.

TEST RESULTS

No non-compliance noted.

Remark: Please refer to the separated SAR report.

MPE evaluation

Not applicable.