



FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Wireless Bluetooth Keyboard

Model: ACK-5331B ; ACK-5310RF ; ACK-5330RF ; ACK-5332B ; ACK-5334B ;
ACK-5333B ; KYB-IMAGIPADBLK1 ; KYB-IMAGIPADWHT1 ;
KYB-IMAGIPADPNK1 ; KYB-IMAGIPADPUR1 ; KYB-IMAGIPADBLK2 ;
KYB-IMAGIPADWHT2 ; KYB-IMAGIPADPNK2 ; KYB-IMAGIPADPUR2 ; LuxePad ;
iCK826 ; iBTKB20 ; LHA0041 ; iSK912 ; iSK914 ; iMM517 ; 6PQ889 ; LHA0046 ;
KSK-3040BT ; KSK-3040iBT ; CSBB-03IP ; iCK-836 ; CSBB-02IP ; 18441 ; 18442 ; 18443 ;
18444 ; 18445 ; 18446 ; 18447 ; 18448;X10 imini ; SB-KB04-BTSP/BK ; Luxpad Pro

Trade Name: Solidyear

Issued to

Solid Year Co., Ltd.

No.3, Pao Chi Lane, Siu Shui Hsiang Chang Haw Hsien, Taiwan, R.O.C.

Issued by

Compliance Certification Services Inc.

No.11, Wu-Gong 6th Rd., Wugu Industrial Park,

New Taipei City 248, Taiwan (R.O.C.)

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Issued Date: April 19, 2012



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Revision History

Rev.		Issue Date		Revisions	Effect Page	Revised By
00		April 19, 2012		Initial Issue	ALL	Angel Cheng



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1. TEST RESULT CERTIFICATION

Product:	Solid Year Co., Ltd.
Model:	ACK-5331B ; ACK-5310RF ; ACK-5330RF ; ACK-5332B ; ACK-5334B ; ACK-5333B ; KYB-IMAGIPADBLK1 ; KYB-IMAGIPADWHT1 ; KYB-IMAGIPADPNK1 ; KYB-IMAGIPADPUR1 ; KYB-IMAGIPADBLK2 ; KYB-IMAGIPADWHT2 ; KYB-IMAGIPADPNK2 ; KYB-IMAGIPADPUR2 ; LuxePad ; iCK826 ; iBTKB20 ; LHA0041 ; iSK912 ; iSK914 ; iMM517 ; 6PQ889 ; LHA0046 ; KSK-3040BT ; KSK-3040iBT ; CSBB-03IP ; iCK-836 ; CSBB-02IP ; 18441 ; 18442 ; 18443 ; 18444 ; 18445 ; 18446 ; 18447 ; 18448;X10 imini ; SB-KB04-BTSP/BK ; Luxpad Pro
Brand:	Solidyear
Applicant:	Solid Year Co., Ltd. No.3, Pao Chi Lane, Siu Shui Hsiang Chang Haw Hsien, Taiwan, R.O.C.
Manufacturer:	DONGGUAN SOLIDTEK ELECTRONICS CO., LTD. Youyi Road Tianxin Industrial Area, Qiaotou, Dongguan, Guangdong, P.R. CHINA
Tested:	March 19 ~ April 9, 2012

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:

Jason Lin

Jason Lin
Section Manager
Compliance Certification Services Inc.

Reviewed by:

Gina Lo

Gina Lo
Section Manager
Compliance Certification Services Inc.



2. EUT DESCRIPTION

Product	Wireless Bluetooth Keyboard	
Trade Name	Solidyear	
Model Number	ACK-5331B ; ACK-5310RF ; ACK-5330RF ; ACK-5332B ; ACK-5334B ; ACK-5333B ; KYB-IMAGIPADBLK1 ; KYB-IMAGIPADWHT1 ; KYB-IMAGIPADPNK1 ; KYB-IMAGIPADPUR1 ; KYB-IMAGIPADBLK2 ; KYB-IMAGIPADWHT2 ; KYB-IMAGIPADPNK2 ; KYB-IMAGIPADPUR2 ; LuxePad ; iCK826 ; iBTKB20 ; LHA0041 ; iSK912 ; iSK914 ; iMM517 ; 6PQ889 ; LHA0046 ; KSK-3040BT ; KSK-3040iBT ; CSBB-03IP ; iCK-836 ; CSBB-02IP ; 18441 ; 18442 ; 18443 ; 18444 ; 18445 ; 18446 ; 18447 ; 18448;X10 imini ; SB-KB04-BTSP/BK ; Luxpad Pro	
Model Discrepancy	Model Number	Difference
	ACK-5331B	USB charge
	ACK-5310RF	Battery 1.5V*2
	ACK-5330RF ; ACK-5332B ; ACK-5334B ; ACK-5333B ; KYB-IMAGIPADBLK1 ; KYB-IMAGIPADWHT1 ; KYB-IMAGIPADPNK1 ; KYB-IMAGIPADPUR1 ; KYB-IMAGIPADBLK2 ; KYB-IMAGIPADWHT2 ; KYB-IMAGIPADPNK2 ; KYB-IMAGIPADPUR2 ; LuxePad ; iCK826 ; iBTKB20 ; LHA0041 ; iSK912 ; iSK914 ; iMM517 ; 6PQ889 ; LHA0046 ; KSK-3040BT ; KSK-3040iBT ; CSBB-03IP ; iCK-836 ; CSBB-02IP ; 18441 ; 18442 ; 18443 ; 18444 ; 18445 ; 18446 ; 18447 ; 18448;X10 imini ; SB-KB04-BTSP/BK ; Luxpad Pro	marketing purposes.
Received Date	April 6, 2012	
Power Supply	Power from battery: Model: AE323450P Rating: 3.7V, 580mAh	
Frequency Range	2402 ~ 2480 MHz	
Transmit Power	-2.85 dBm	
Modulation Technique	GFSK for 1Mbps	



Transmit Data Rate	1Mbps
Number of Channels	79 Channels
Antenna Specification	Gain: 2.78 dBi
Antenna Designation	PCB 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: **L2BACK5332B** 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: 2003 and FCC CFR 47 Part 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: 2003 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: 2003.



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: ACK-5331B) had been tested under operating condition.

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.

Channel Low (2402MHz), Mid (2441MHz) and High (2480MHz) with 1Mbps data rate was chosen for full testing.



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 and Loop Antenna is scheduled for calibration once three years.

Conducted Emissions Test Site				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360131	03/01/2013
Power Meter	Anritsu	ML2495A	1012009	04/27/2012
Power Sensor	Anritsu	MA2411B	0917072	04/27/2012

Wugu 966 Chamber A				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US42510252	11/02/2012
EMI Test Receiver	R&S	ESCI	100064	02/17/2012
Pre-Amplifier	Mini-Circuits	ZFL-1000LN	SF350700823	01/12/2013
Pre-Amplifier	MITEQ	AFS44-00102650-42-10P-44	1415367	11/19/2012
Bilog Antenna	Sunol Sciences	JB3	A030105	10/03/2012
Horn Antenna	EMCO	3117	00055165	01/11/2013
Horn Antenna	EMCO	3116	00026370	10/12/2012
Loop Antenna	EMCO	6502	8905/2356	06/10/2013
Turn Table	CCS	CC-T-1F	N/A	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R
Site NSA	CCS	N/A	N/A	12/25/2012
Test S/W	EZ-EMC (CCS-3A1RE)			

Conducted Emission room # B				
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	CAL. DUE
TEST RECEIVER	R&S	ESCI	100234	06/13/2012
LISN (EUT)	FCC	FCC-LISN-50-32-2	08009	03/26/2013
LISN	SCHWARZBECK	NSLK 8127	8127382	01/02/2013
BNC CABLE	EMCI	CFD300-NL	BNC B4	03/15/2013
Pulse Limiter	R&S	ESH3-Z2	100374	01/08/2013
THERMO-HYGRO METER	WISEWIND	201A	1006	05/23/2012



4.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
Powerline Conducted Emission	+/- 1.1089
3M Semi Anechoic Chamber / 30M~200M	+/- 4.0138
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9483
3M Semi Anechoic Chamber / 1G~8G	+/- 2.5975
3M Semi Anechoic Chamber / 8G~18G	+/- 2.6112
3M Semi Anechoic Chamber / 18G~26G	+/- 2.7389
3M Semi Anechoic Chamber / 26G~40G	+/- 2.9683

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



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

Remark: The radiated emissions test items was tested at Compliance Certification Services Inc. (Sindian Lab.) The test equipments were listed in page 10 and the test data, please refer page 49-50.

☒ No.11, Wu-Gong 6th Rd., Wugu Industrial Park, New Taipei City 248, Taiwan (R.O.C.)

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

☐ No.81-1, Lane 210, Bade 2nd Rd., Lujhu Township, Taoyuan County 33841, TAIWAN, R.O.C.

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	FCC	3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements	 FCC MRA: TW1039
Taiwan	TAF	LP0002, RTTE01, FCC Method-47 CFR Part 15 Subpart C, D, E, RSS-210, RSS-310 IDA TS SRD, AS/NZS 4268, AS/NZS 4771, TS 12.1 & 12.2, ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 300 328, ETSI EN 300 220-1, ETSI EN 300 220-2, ETSI EN 301 893, ETSI EN 301 489-1/3/7/17 FCC OET Bulletin 65 + Supplement C, EN 50360, EN 50361, EN 50371, RSS 102, EN 50383, EN 50385, EN 50392, IEC 62209, CNS 14958-1, CNS 14959 FCC Method –47 CFR Part 15 Subpart B IEC / EN 61000-3-2, IEC / EN 61000-3-3, IEC / EN 61000-4-2/3/4/5/6/8/11	
Canada	Industry Canada	3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform	 IC 2324G-1 IC 2324G-2

** 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.	Device Type	Brand	Model	Series No.	FCC ID / BSMI ID	Data Cable	Power Cord
1.	LCD Monitor	LG	L17NP-4	503KGXA2K858	BEJL17NU	Shielded, 1.8m with 2 cores	Unshielded, 1.8m
2.	PC	HP	dx7510	SGH947PR2D	FCC DoC	N/A	Unshielded, 1.8m
3.	USB Mouse	DELL	M-UV69a	323617-001	FCC DoC	Shielded, 1.8m	N/A
4.	USB Keyboard	DELL	Sk-8115	N/A	FCC DoC	Shielded, 1.8m	N/A
5.	USB Mouse	HP	M-UAE96	F93A90A5BU90 L20	DOC BSMI: T41126	Shielded, 1.8m	N/A
6.	Earphone & Microphone	Atayal	SEP912	N/A	N/A	Unshielded, 2.0m	N/A
7.	USB 2.0 HDD	TeraSys	F12-U	N/A	BSMI ID: 4912A002	Shielded, 1.8m	N/A
8.	Notebook	HP	2210B	CNV7472KG5	DOC BSMI: R33001	Shielded, 1.0m	Unshielded, 1.8m
9.	Monitor	SAMSUNG	933SN+	CM19HVKSB000 02	DOC BSMI: R33475	Shielded, 1.8m with two cores	Unshielded, 1.8m
10.	Test Kit	N/A	N/A	N/A	N/A	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.



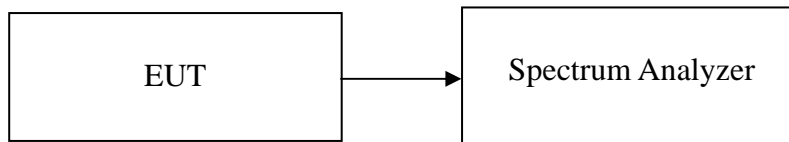
7. FCC PART 15.247 REQUIREMENTS

7.1 20 DB BANDWIDTH

LIMIT

None; for reporting purposes only.

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in the 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=30kHz, VBW = 100kHz, Span = 3MHz, Sweep = 3.2ms, Att = 10dB.
4. Mark the peak frequency and 20dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

TEST RESULTS

No non-compliance noted.

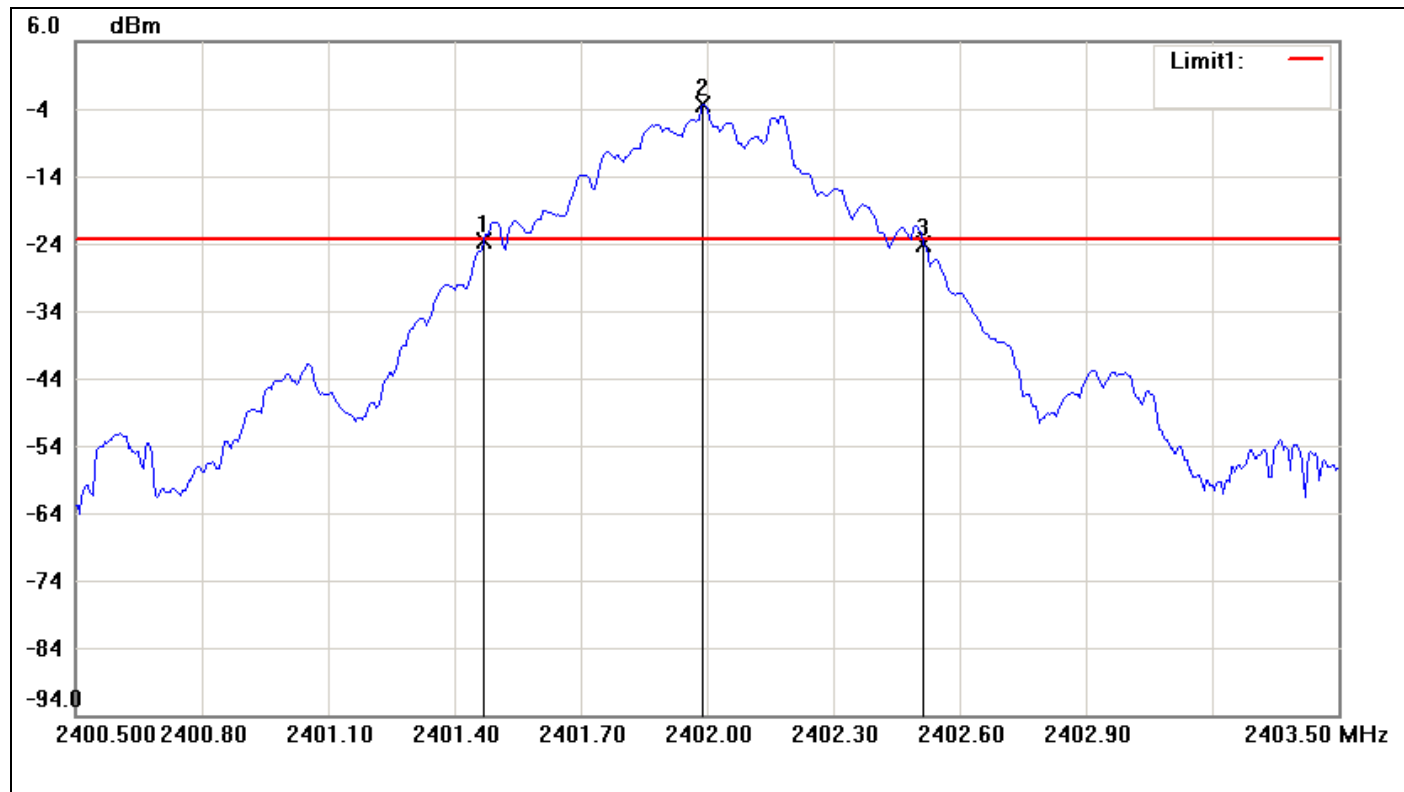
Test Data

Channel	Frequency (MHz)	20dB Bandwidth (MHz)
Low	2402	1.045
Mid	2441	1.055
High	2480	0.995



Test Plot

20dB Bandwidth (CH Low)

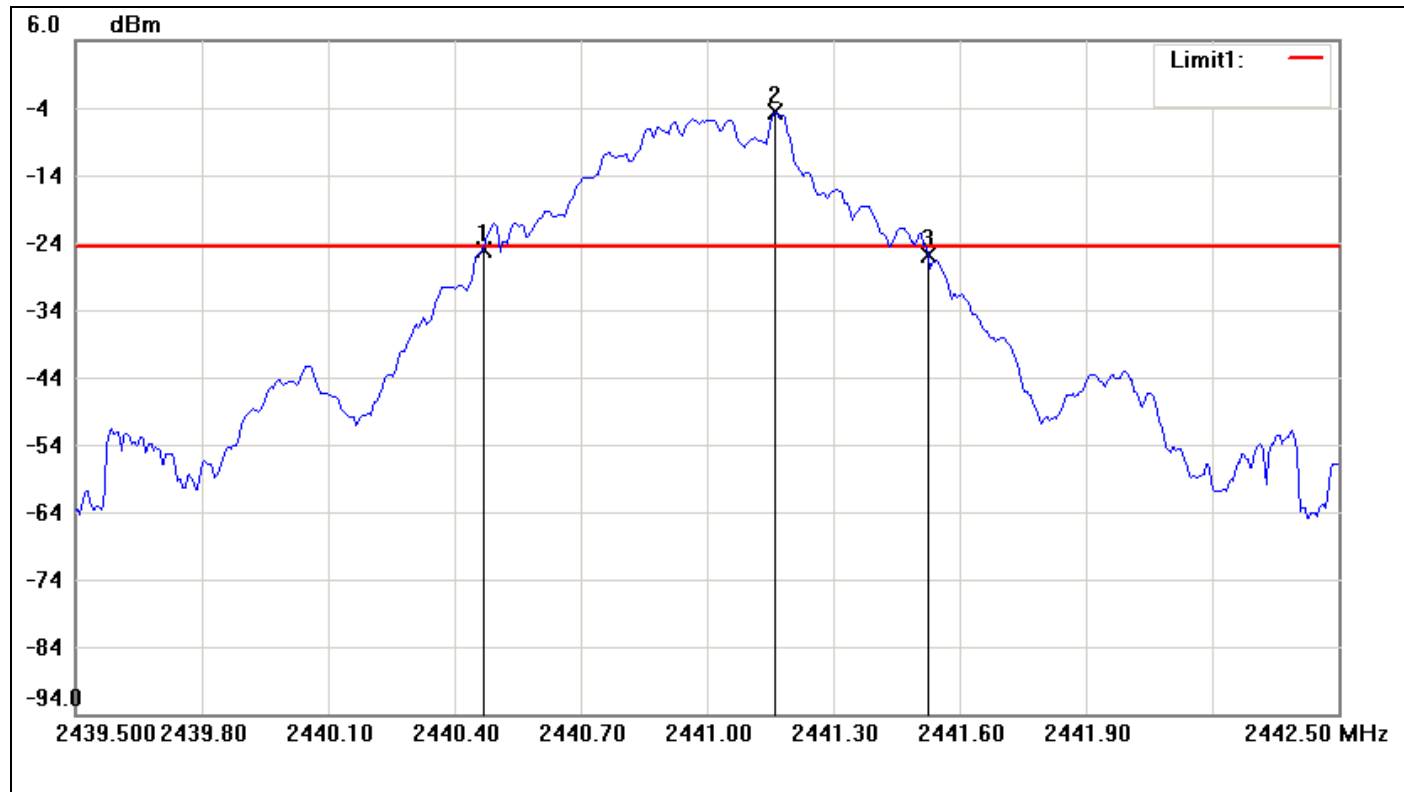


No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2401.4700	-23.63	-23.27	-0.36
2	2401.9900	-3.27	-23.27	20.00
3	2402.5150	-24.03	-23.27	-0.76

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	1.045	-0.4



20dB Bandwidth (CH Mid)

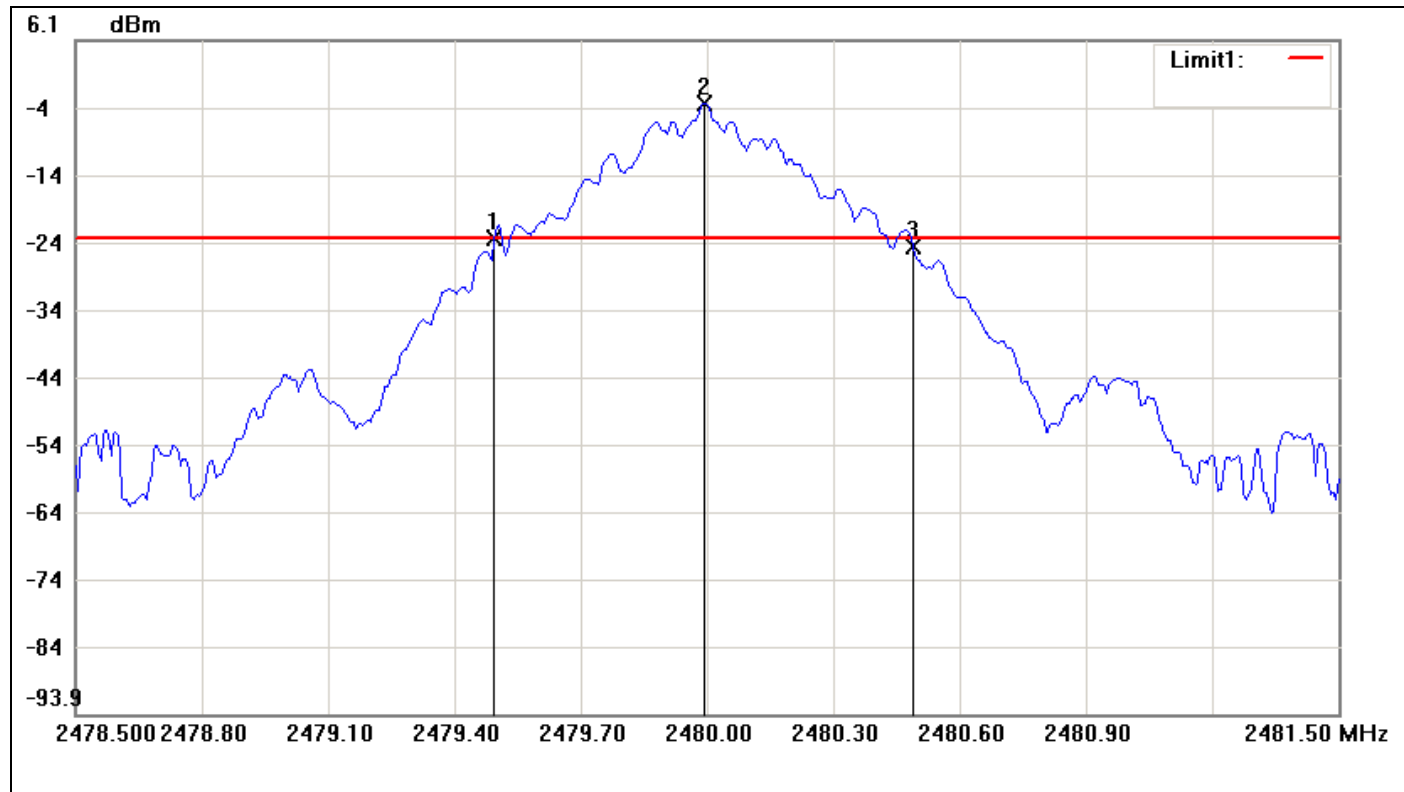


No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2440.4700	-25.17	-24.78	-0.39
2	2441.1600	-4.78	-24.78	20.00
3	2441.5250	-25.97	-24.78	-1.19

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	1.055	-0.8



20dB Bandwidth (CH High)



No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2479.4950	-23.23	-23.22	-0.01
2	2479.9950	-3.22	-23.22	20.00
3	2480.4900	-24.48	-23.22	-1.26

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	0.995	-1.25



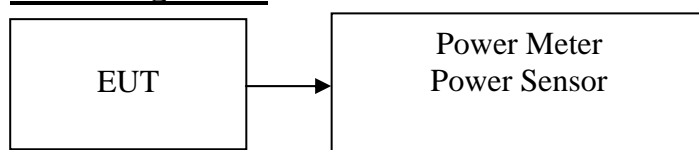
7.2 PEAK POWER

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	-2.85	0.000519	1	PASS
Mid	2441	-3.03	0.000498		PASS
High	2480	-3.01	0.000500		PASS



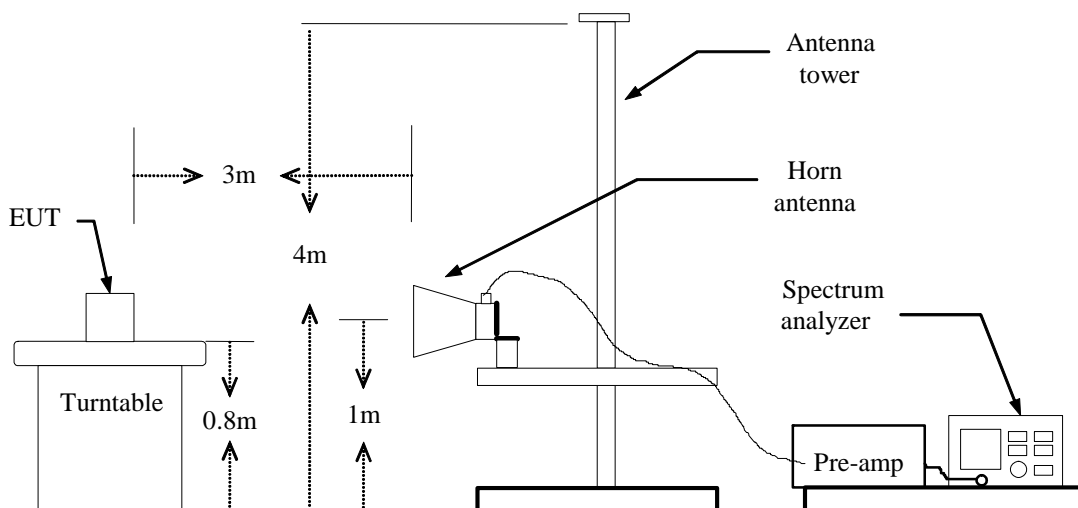
7.3 BAND EDGES MEASUREMENT

LIMIT

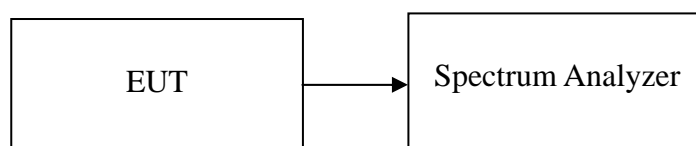
According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within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

Test Configuration

For Radiated



For Conducted





TEST PROCEDURE

For Radiated

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=1MHz VBW=3MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

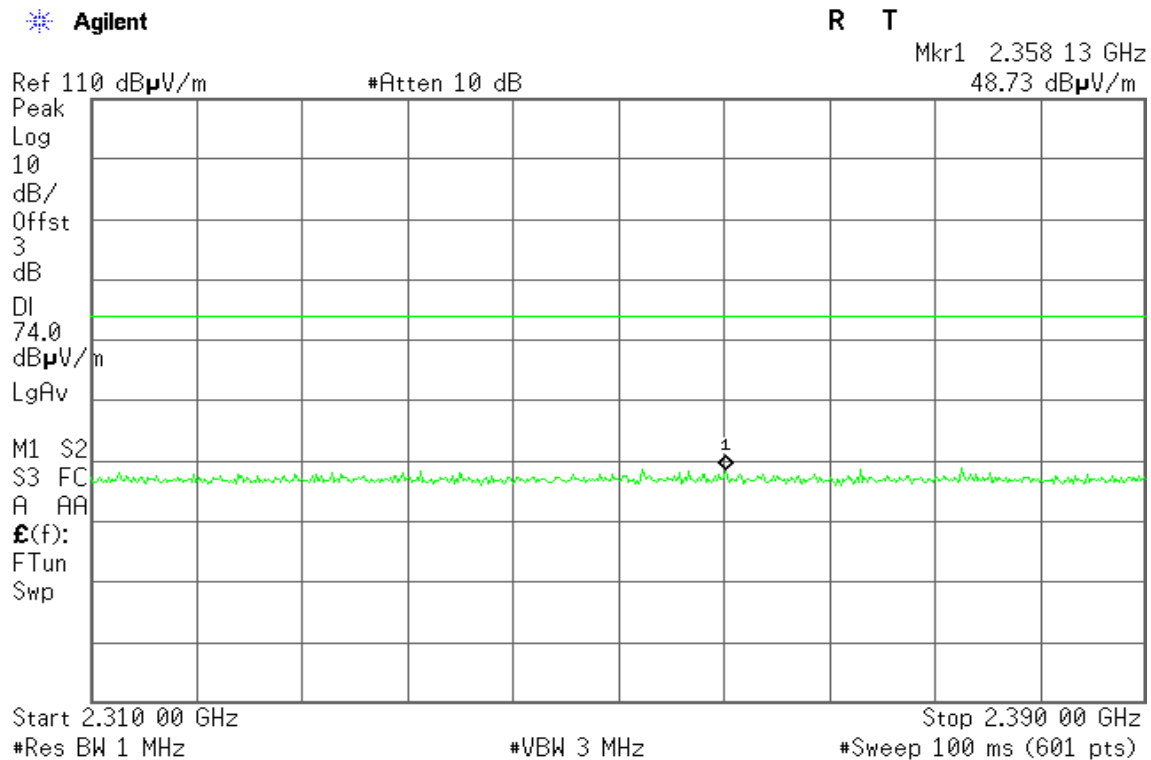
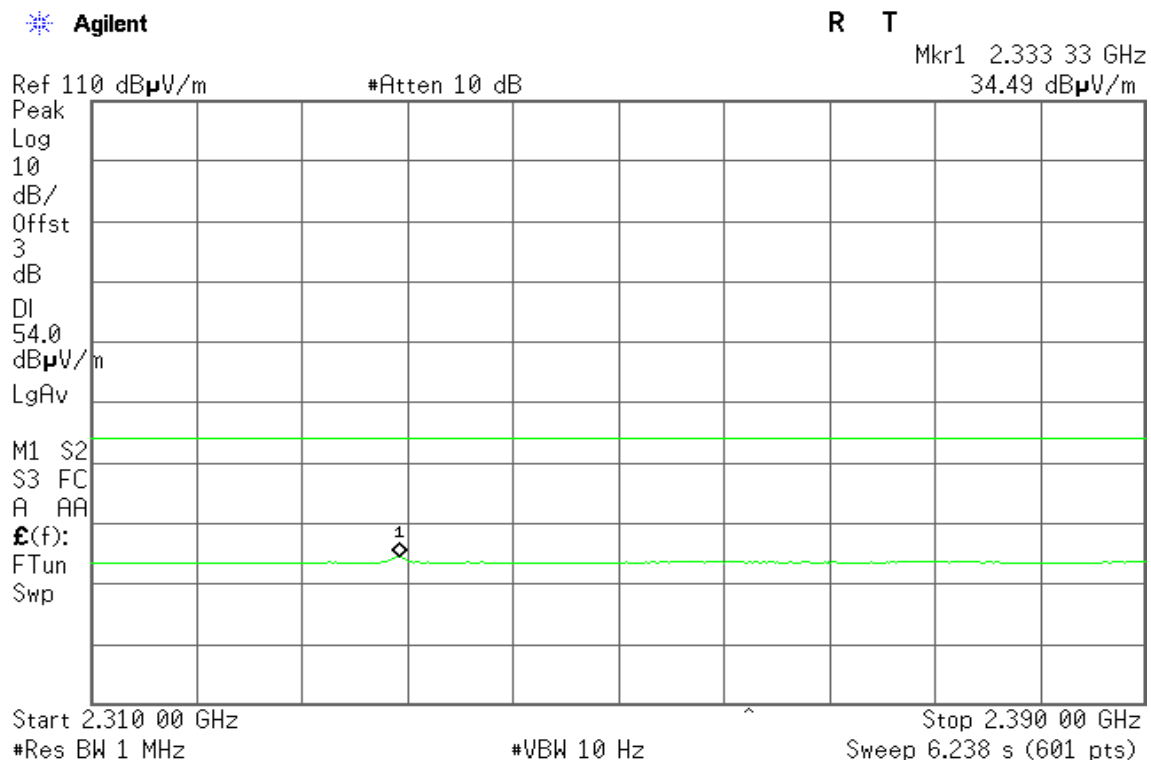
For Conducted

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.

TEST RESULTS

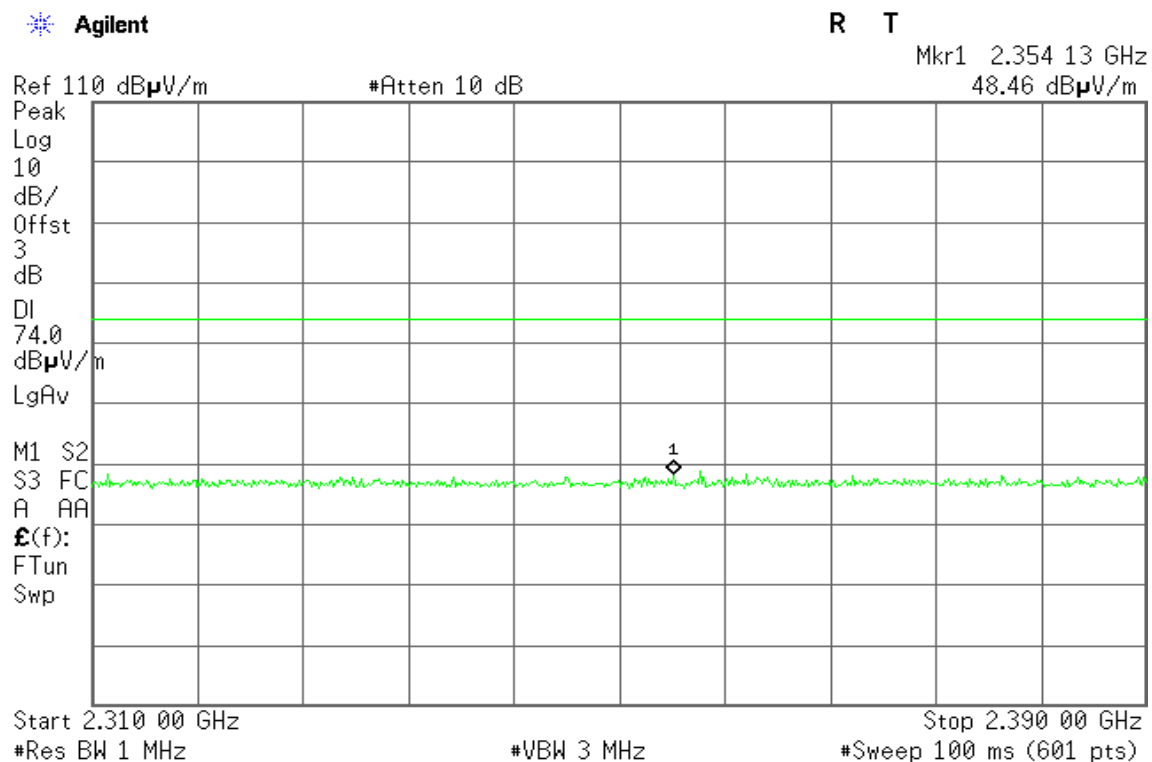
Refer to attach spectrum analyzer data chart.

**Band Edges (CH Low)****Detector mode: Peak****Polarity: Vertical****Detector mode: Average****Polarity: Vertical**



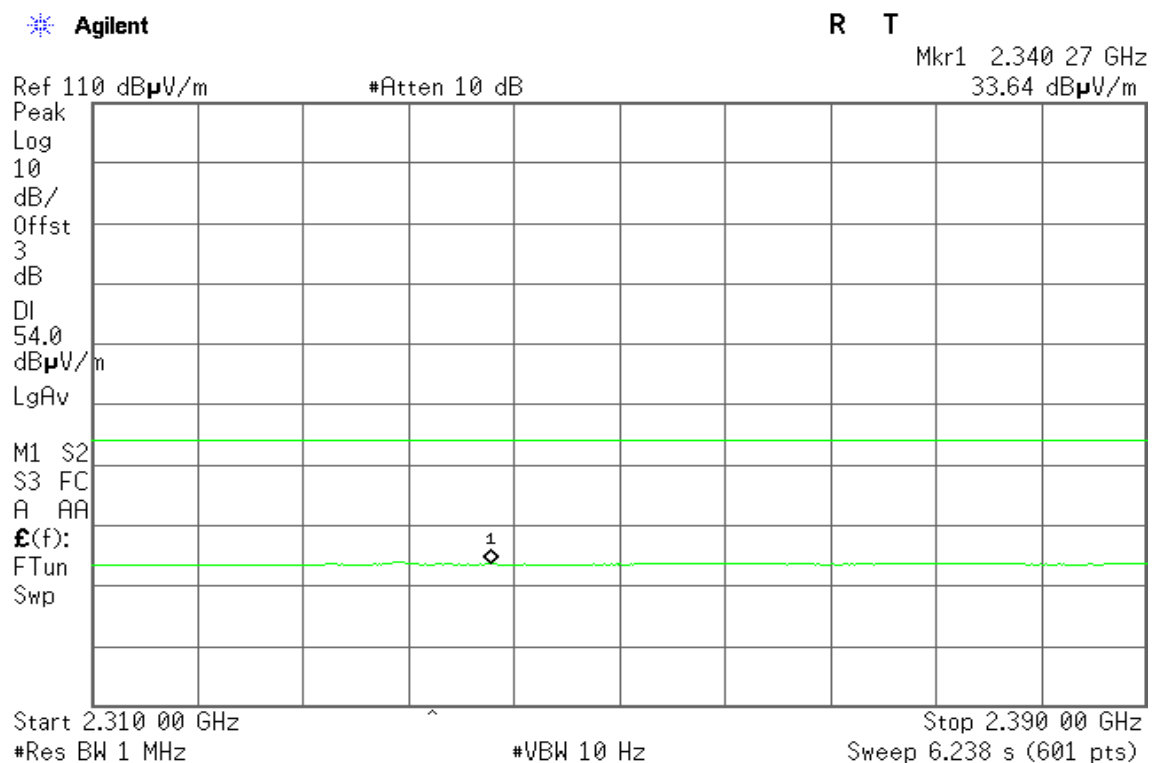
Detector mode: Peak

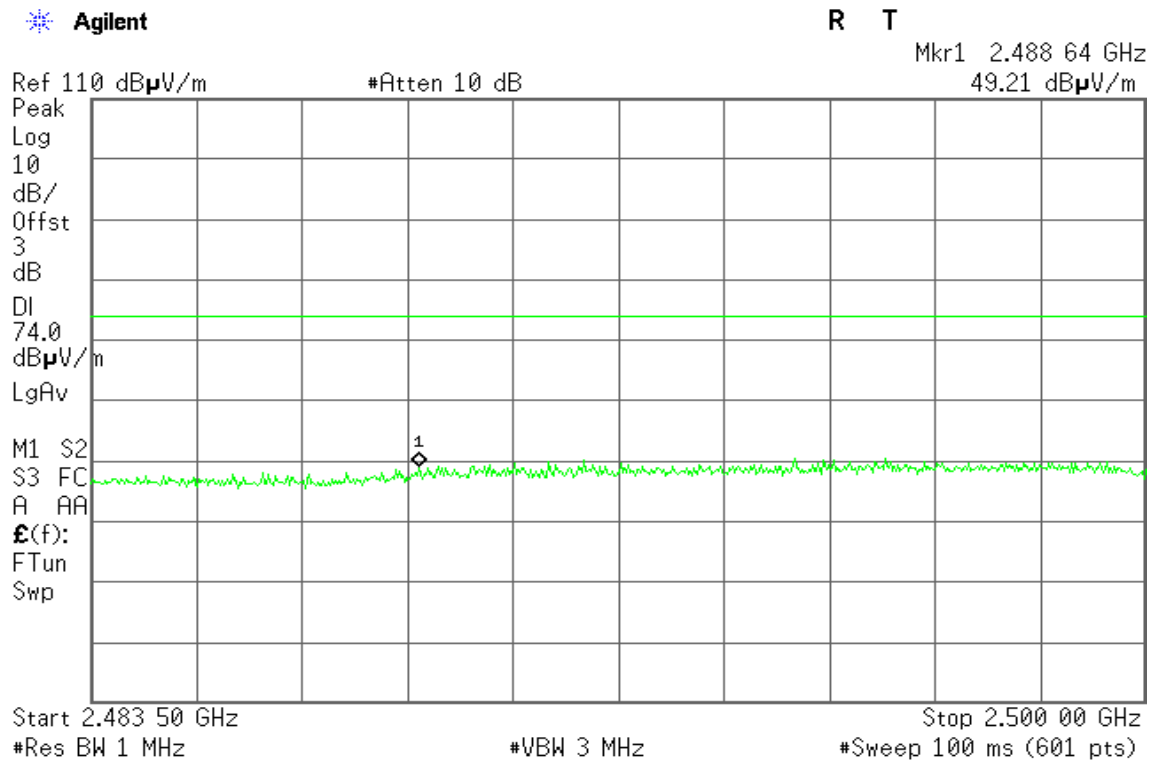
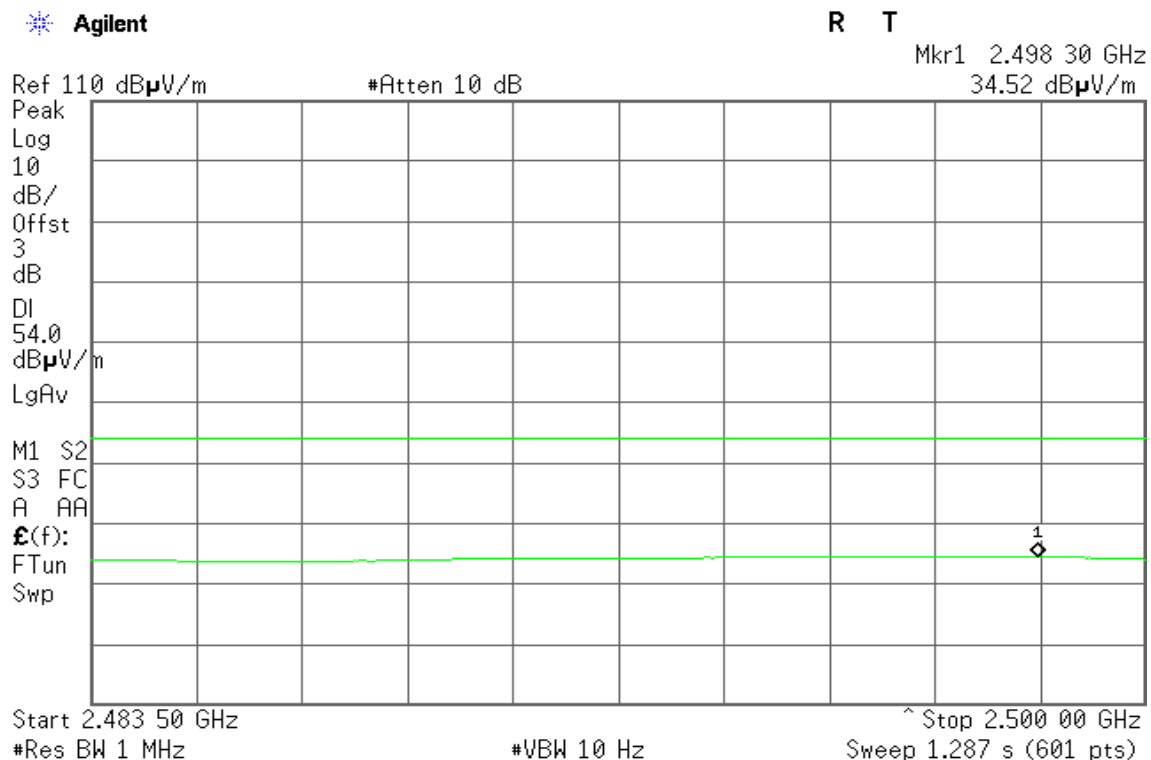
Polarity: Horizontal



Detector mode: Average

Polarity: Horizontal



**Band Edges (CH High)****Detector mode: Peak****Polarity: Vertical****Detector mode: Average****Polarity: Vertical**



Detector mode: Peak

Polarity: Horizontal

Agilent

R T

Mkr1 2.486 28 GHz
48.74 dB μ V/mRef 110 dB μ V/m

#Atten 10 dB

Peak

Log

10

dB/

Offset

3

dB

DI

74.0

dB μ V/m

LgAv

M1 S2

S3 FC

A AA

E(f):

FTun

Swp

Start 2.483 50 GHz

#Res BW 1 MHz

#VBW 3 MHz

Stop 2.500 00 GHz

#Sweep 100 ms (601 pts)

Detector mode: Average

Polarity: Horizontal

Agilent

R T

Mkr1 2.483 50 GHz
34.14 dB μ V/mRef 110 dB μ V/m

#Atten 10 dB

Peak

Log

10

dB/

Offset

3

dB

DI

54.0

dB μ V/m

LgAv

M1 S2

S3 FC

A AA

E(f):

FTun

Swp

Start 2.483 50 GHz

#Res BW 1 MHz

#VBW 10 Hz

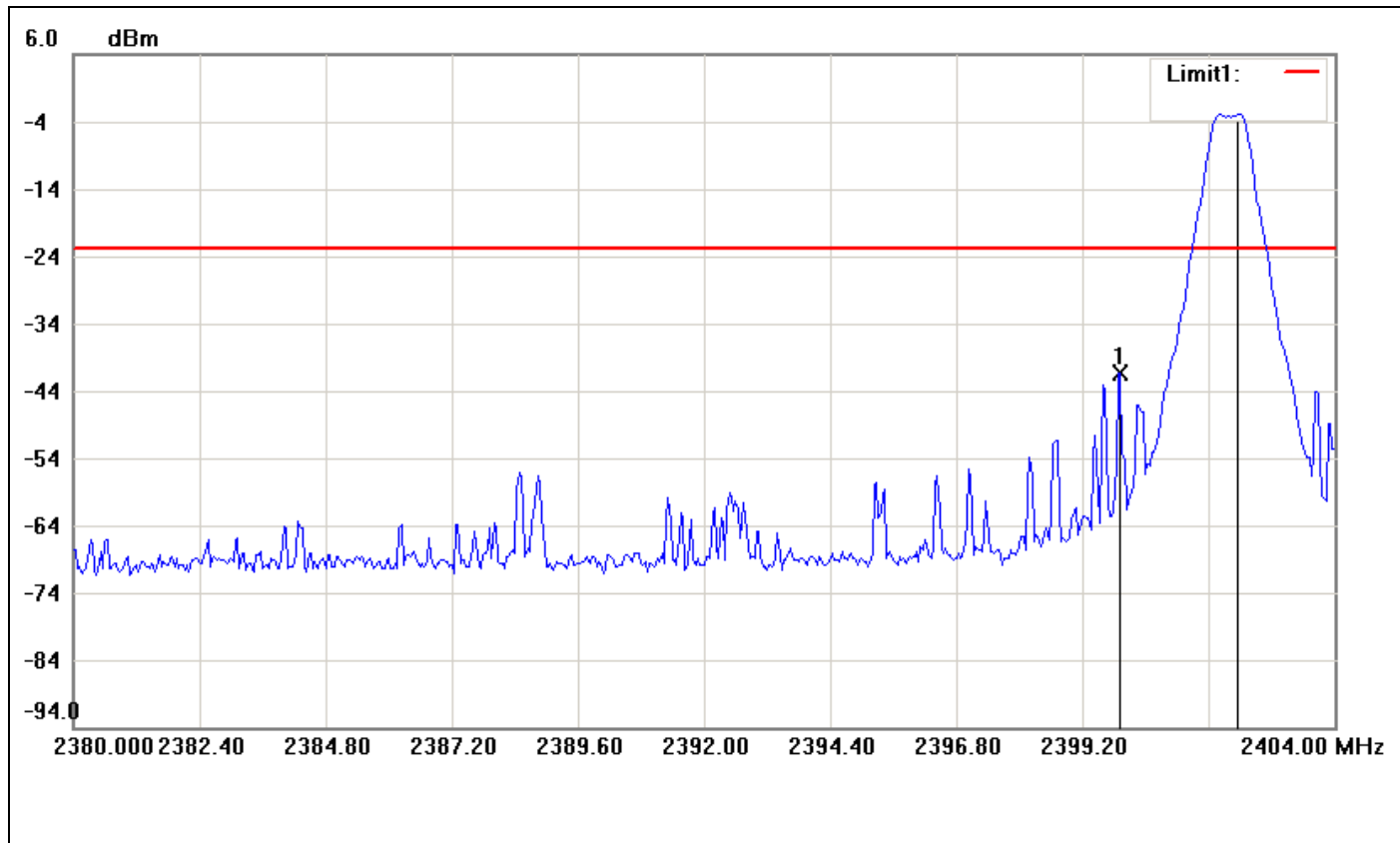
Stop 2.500 00 GHz

Sweep 1.287 s (601 pts)



Conducted Bandedge

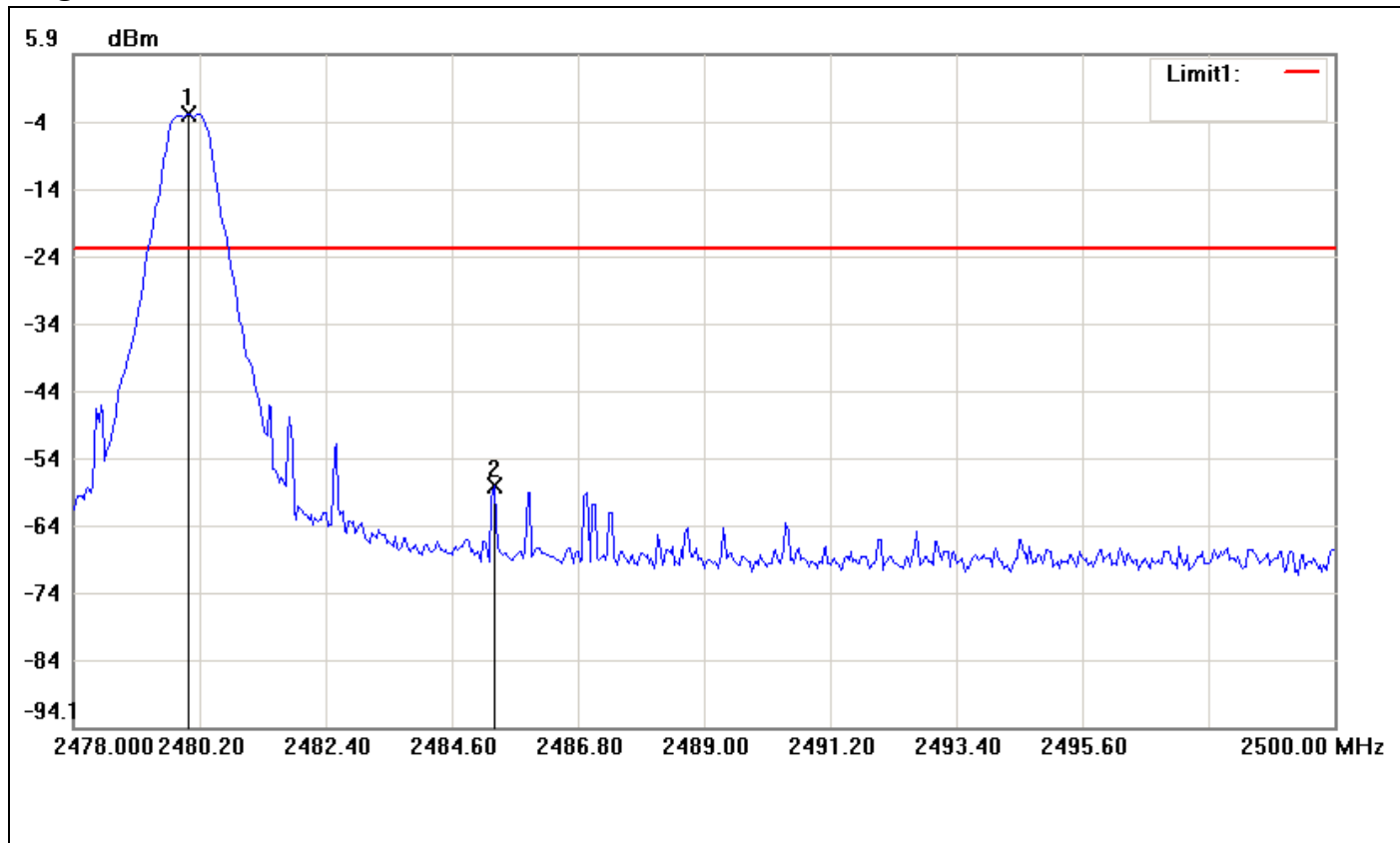
Low



No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2399.9200	-41.34	-22.88	-18.46
2	2402.1600	-2.88	-22.88	20.00



High

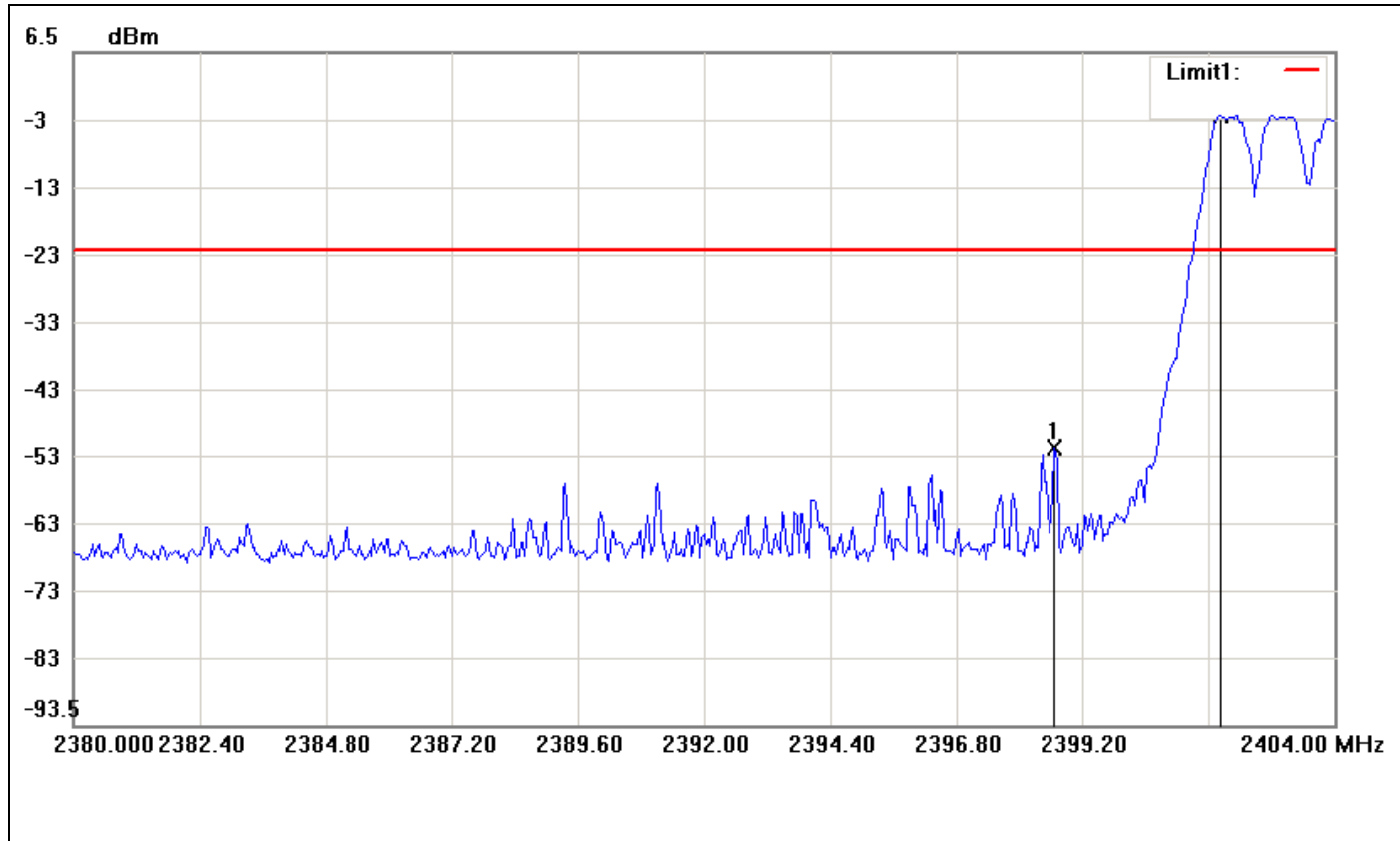


No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2480.0167	-3.06	-23.06	20.00
2	2485.3333	-58.31	-23.06	-35.25



Hopping Mode

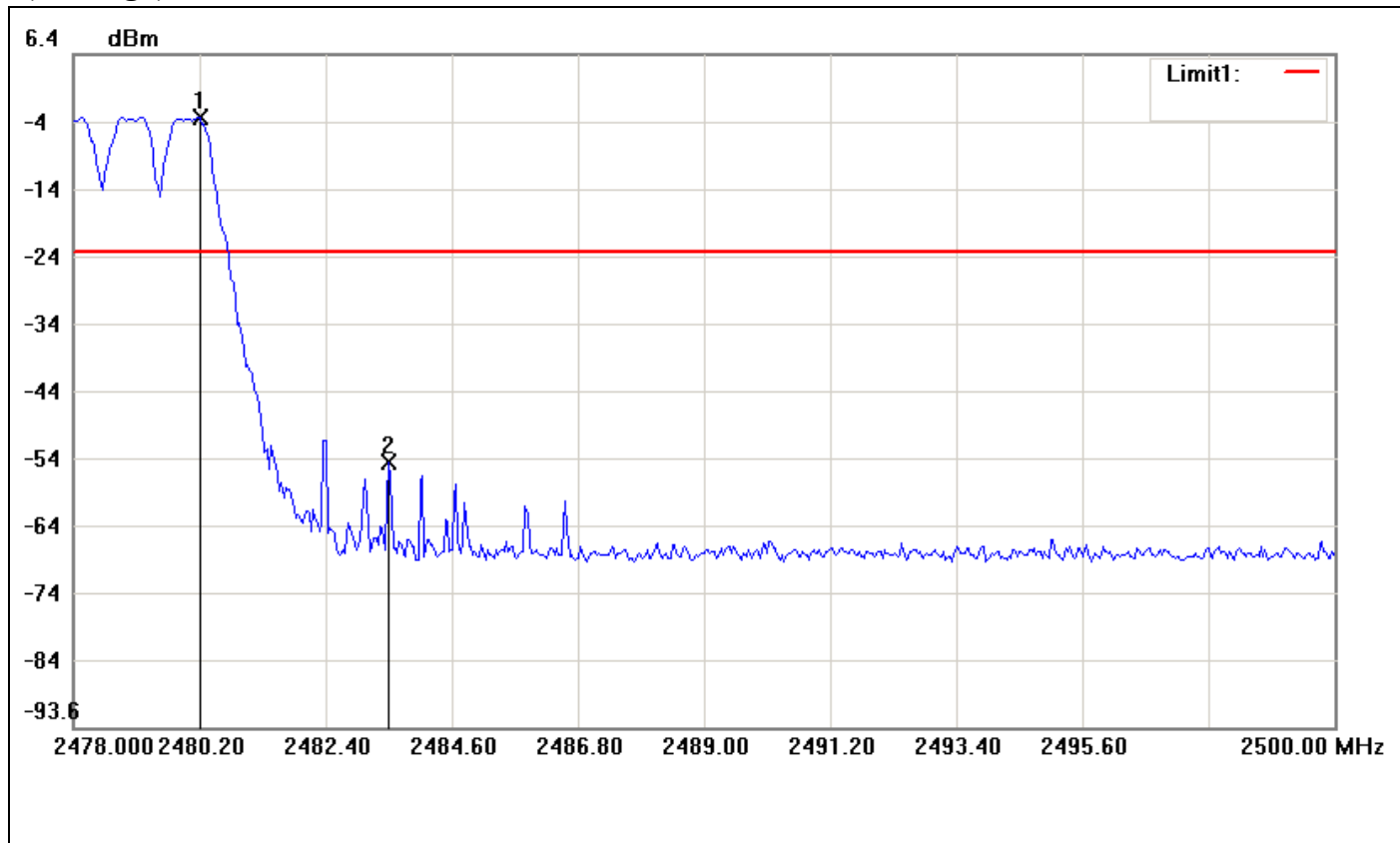
(CH Low)



No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2398.6800	-52.44	-22.91	-29.53
2	2401.8400	-2.91	-22.91	20.00



(CH High)



No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2480.2000	-3.05	-23.05	20.00
2	2483.5000	-54.28	-23.05	-31.23

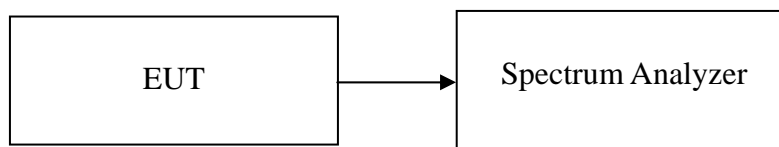


7.4 FREQUENCY SEPARATION

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

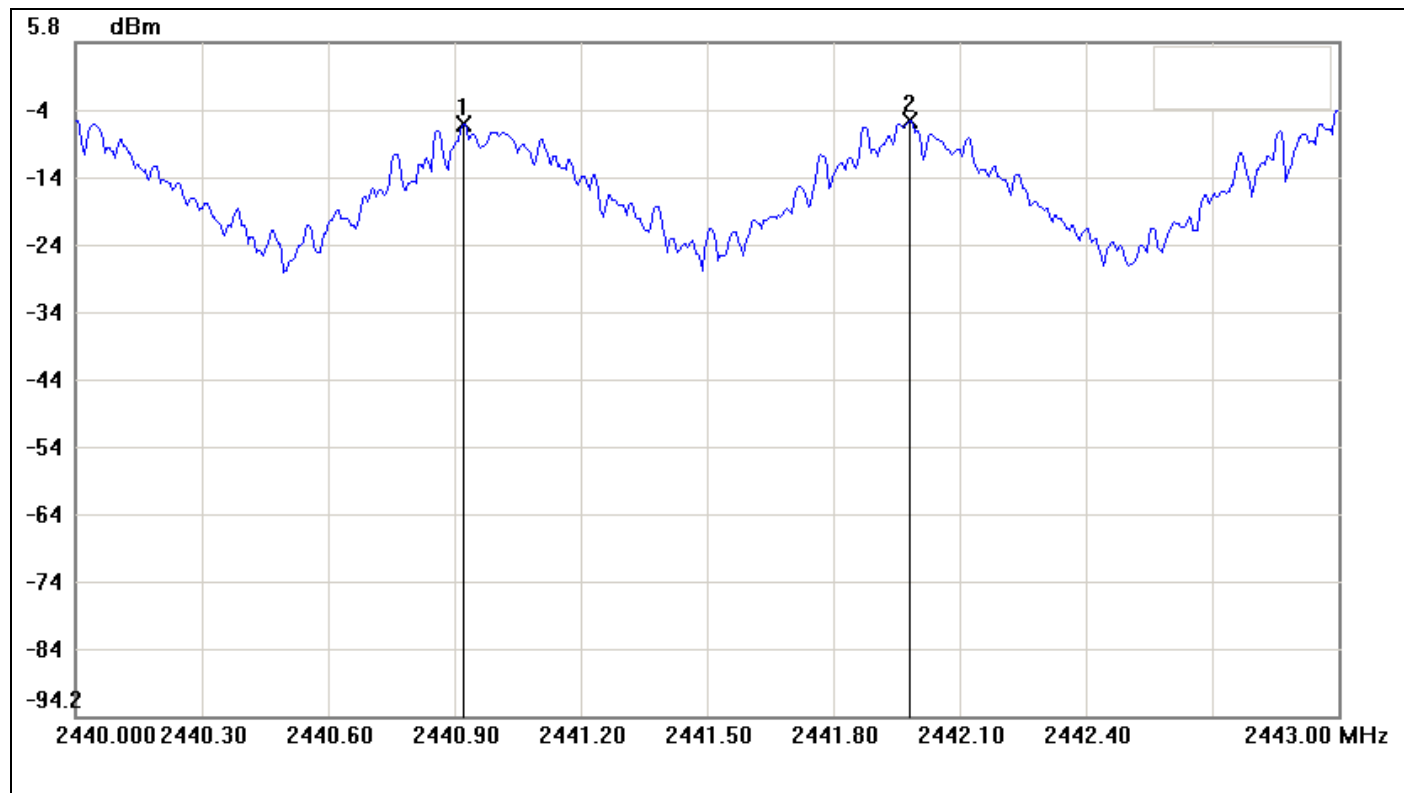
Test Data

Channel Separation (MHz)	two-thirds of the 20 dB bandwidth (kHz)	Channel Separation Limit	Result
1.06	703.33	>two-thirds of the 20 dB bandwidth	Pass



Test Plot

Measurement of Channel Separation

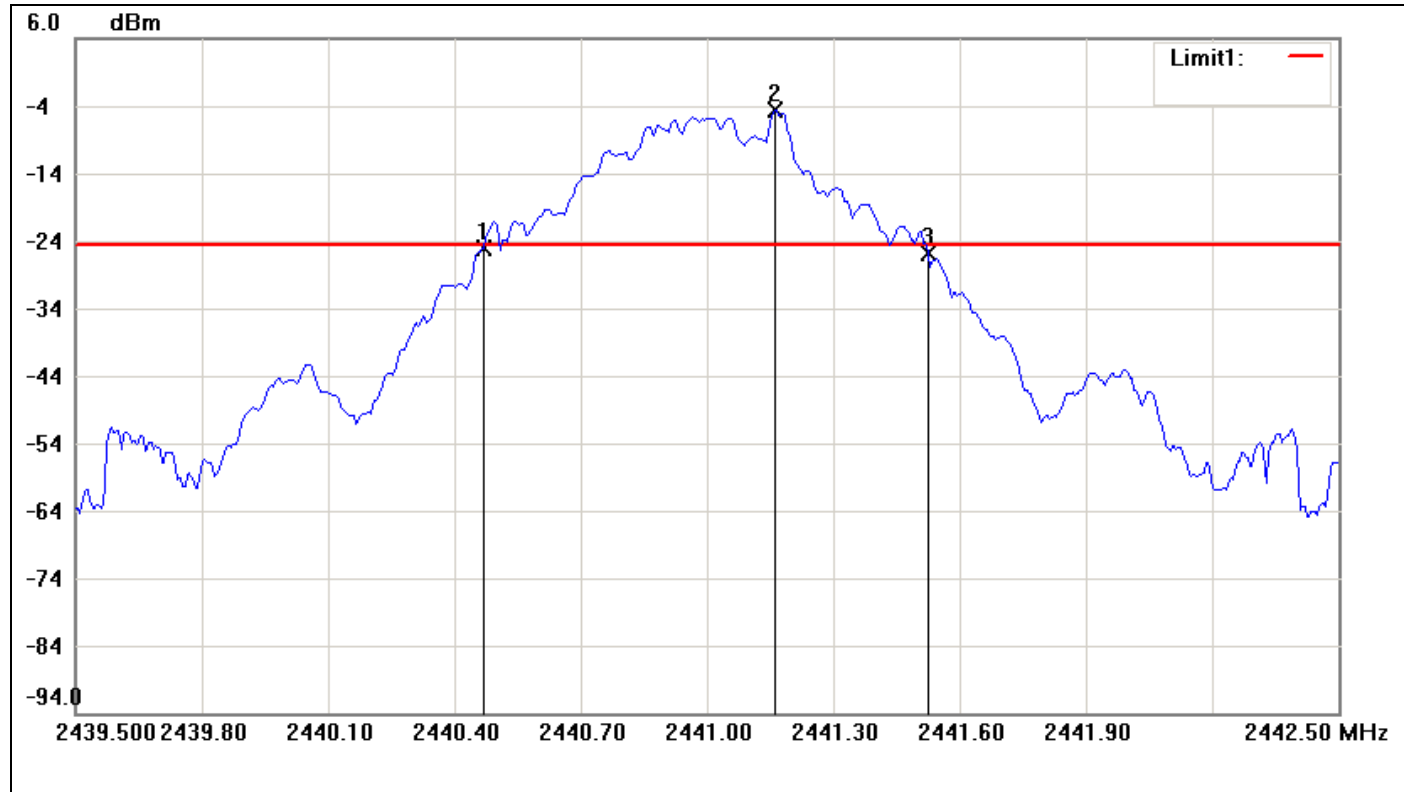


No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2440.9200	-6.35		
2	2441.9800	-5.86		

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk2-mk1	1.06	0.49



Measurement of 20dB Bandwidth



No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2440.4700	-25.17	-24.78	-0.39
2	2441.1600	-4.78	-24.78	20.00
3	2441.5250	-25.97	-24.78	-1.19

No.		Δ Frequency(MHz)	Δ Level(dB)
1	mk3-mk1	1.055	-0.8

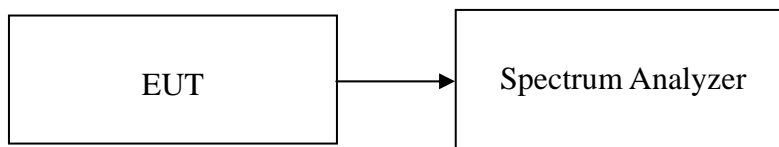


7.5 NUMBER OF HOPPING FREQUENCY

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 = 2430.5MHz, Sweep = auto, Start=2430.5MHz, Stop = 2460.5MHz, Sweep = auto and Start=2460.5MHz, Stop = 2485.5MHz, Sweep = auto.
4. Set the spectrum analyzer as RBW, VBW=300kHz.
5. Max hold, view and count how many channel in the band.

TEST RESULTS

No non-compliance noted

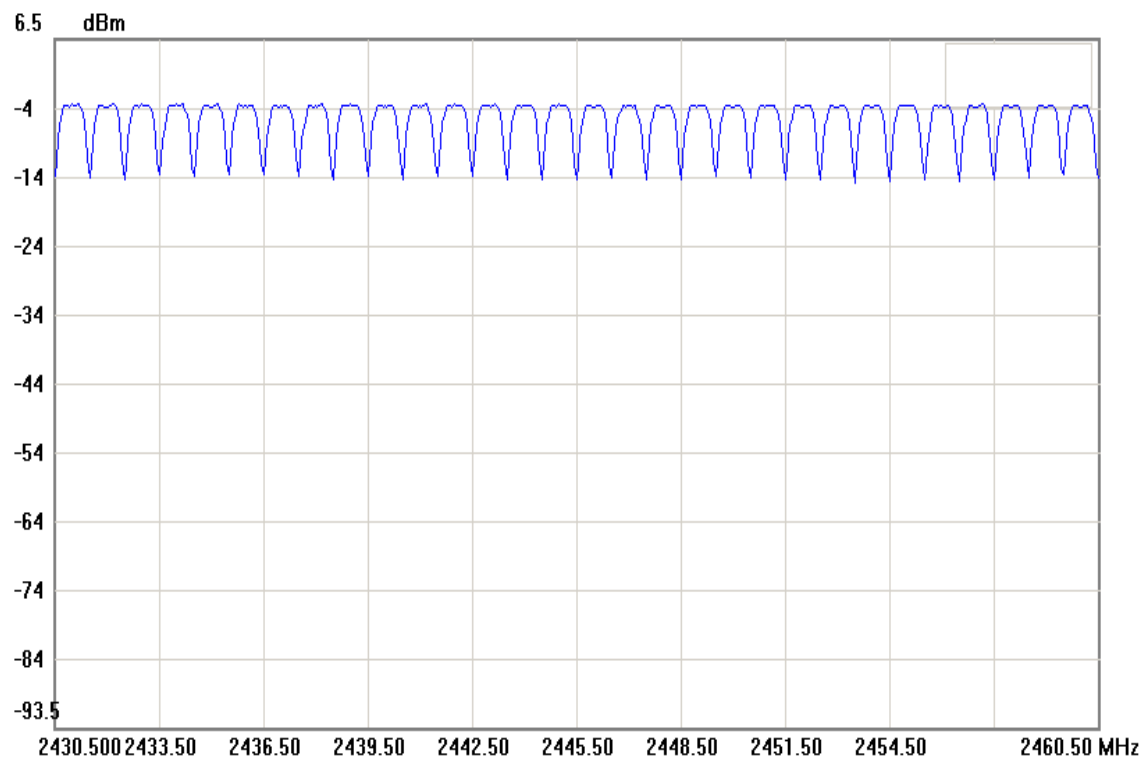
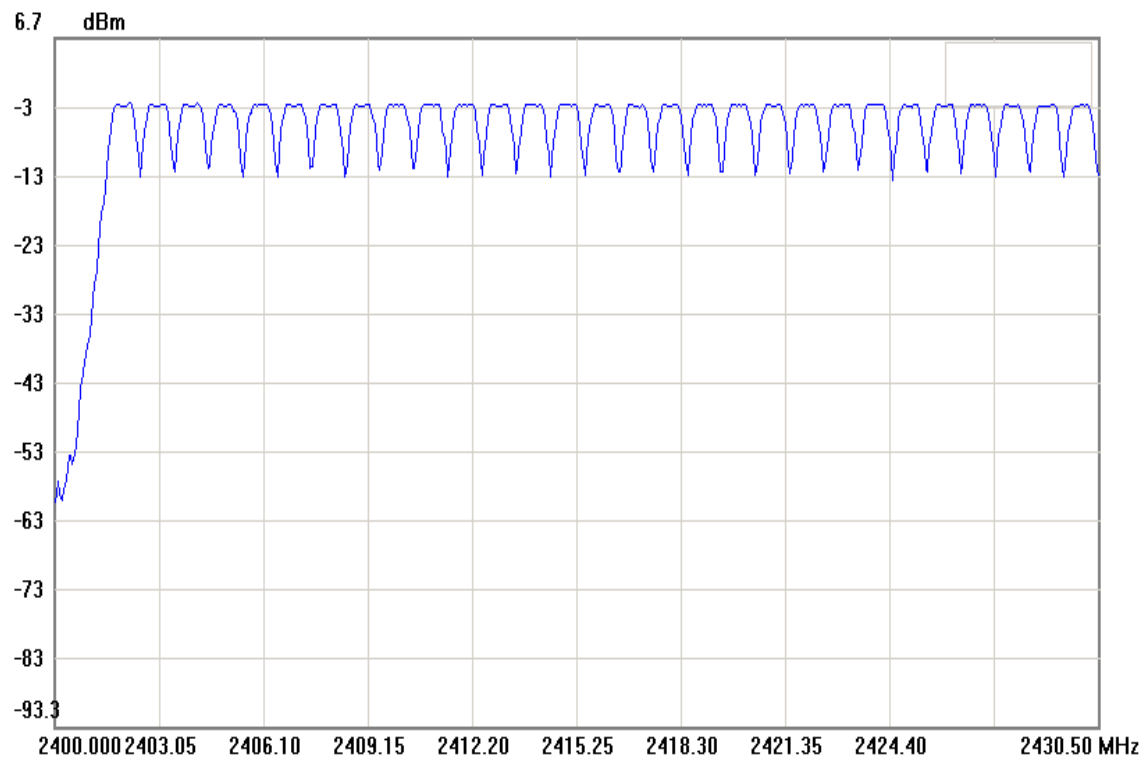
Test Data

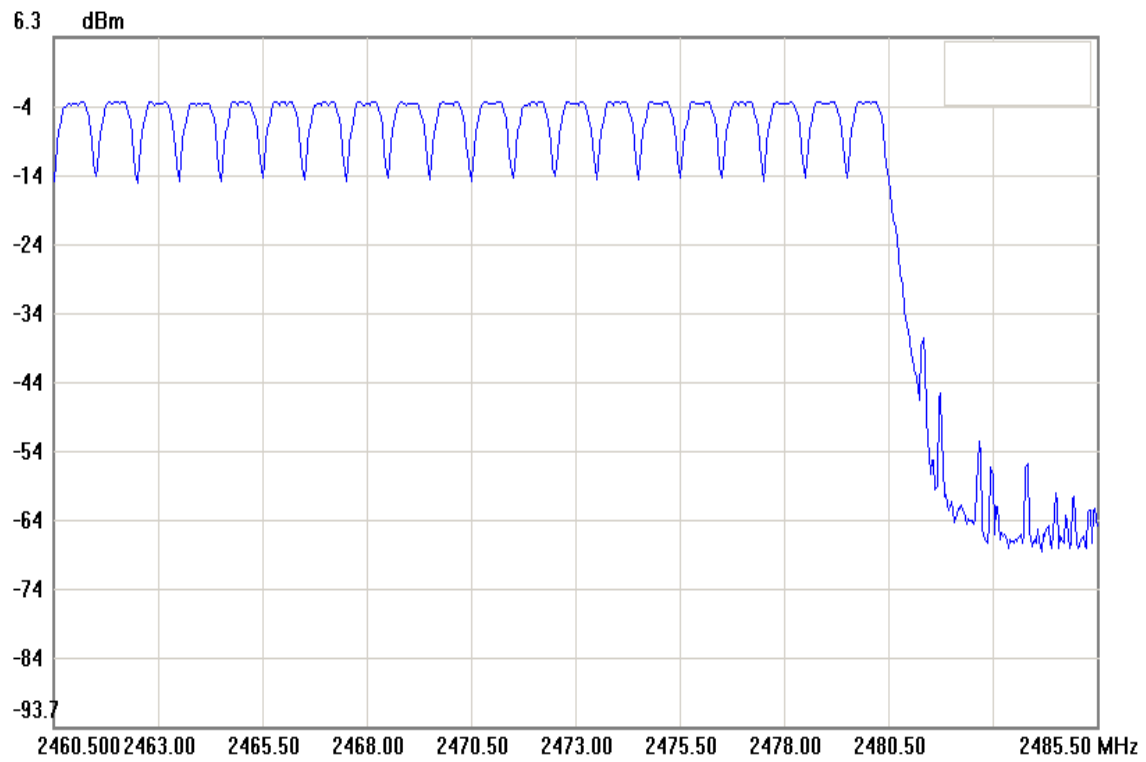
Result (No. of CH)	Limit (No. of CH)	Result
79	>75	PASS



Test Plot

Channel Number





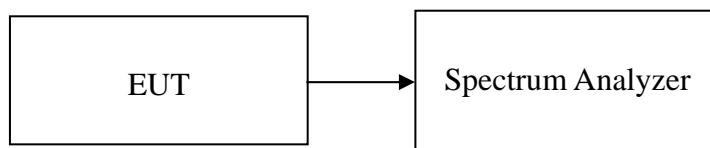


7.6 TIME OF OCCUPANCY (DWELL TIME)

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 Data

DH 1: $0.4367 * (1600/2)/79 * 31.6 = 139.7$ (ms)

DH 3: $1.7 * (1600/4)/79 * 31.6 = 272.0$ (ms)

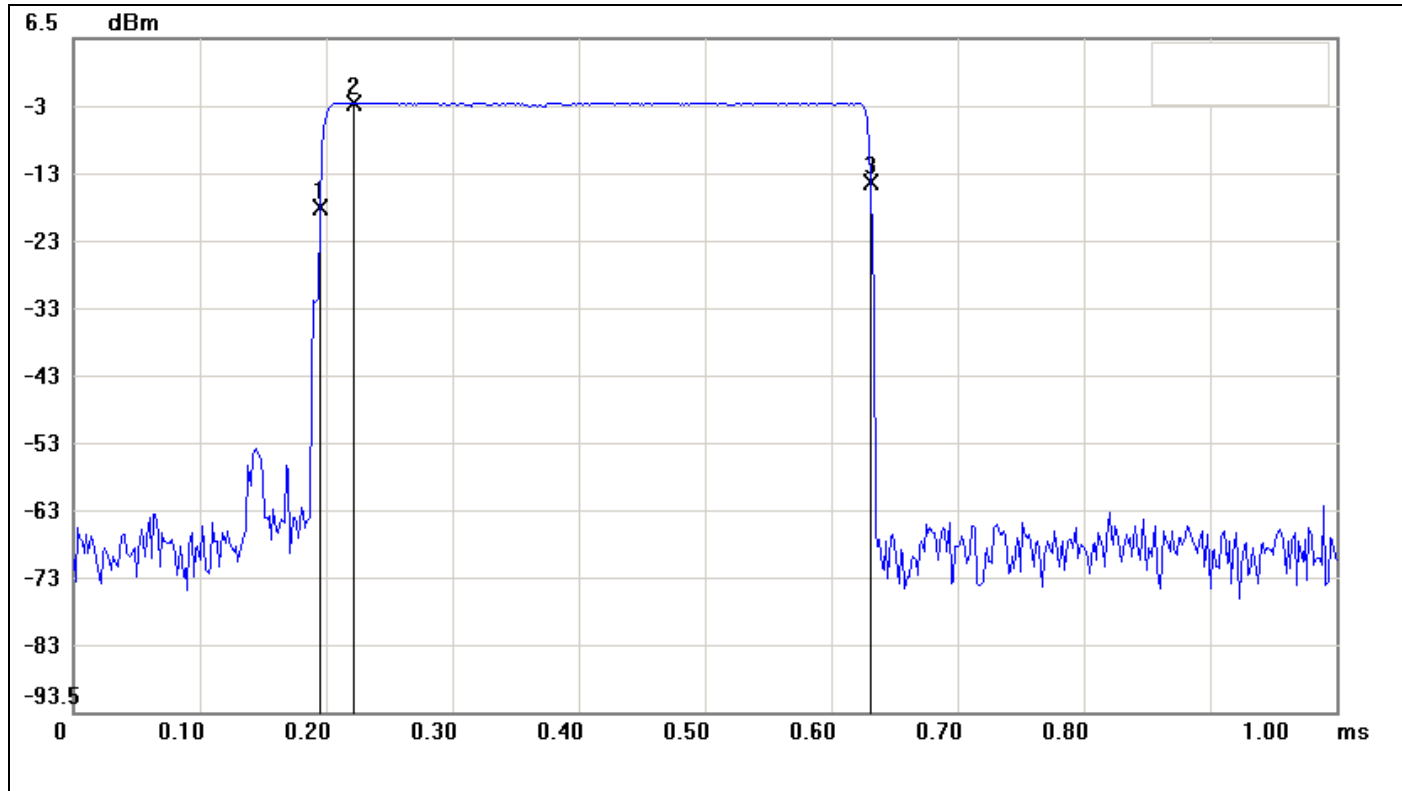
DH 5: $2.95 * (1600/6)/79 * 31.6 = 314.7$ (ms)

	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
DH 1	0.4367	139.7	31.60	400.00	PASS
DH 3	1.7	272.0	31.60		PASS
DH 5	2.95	314.7	31.60		PASS



Test Plot

DH 1

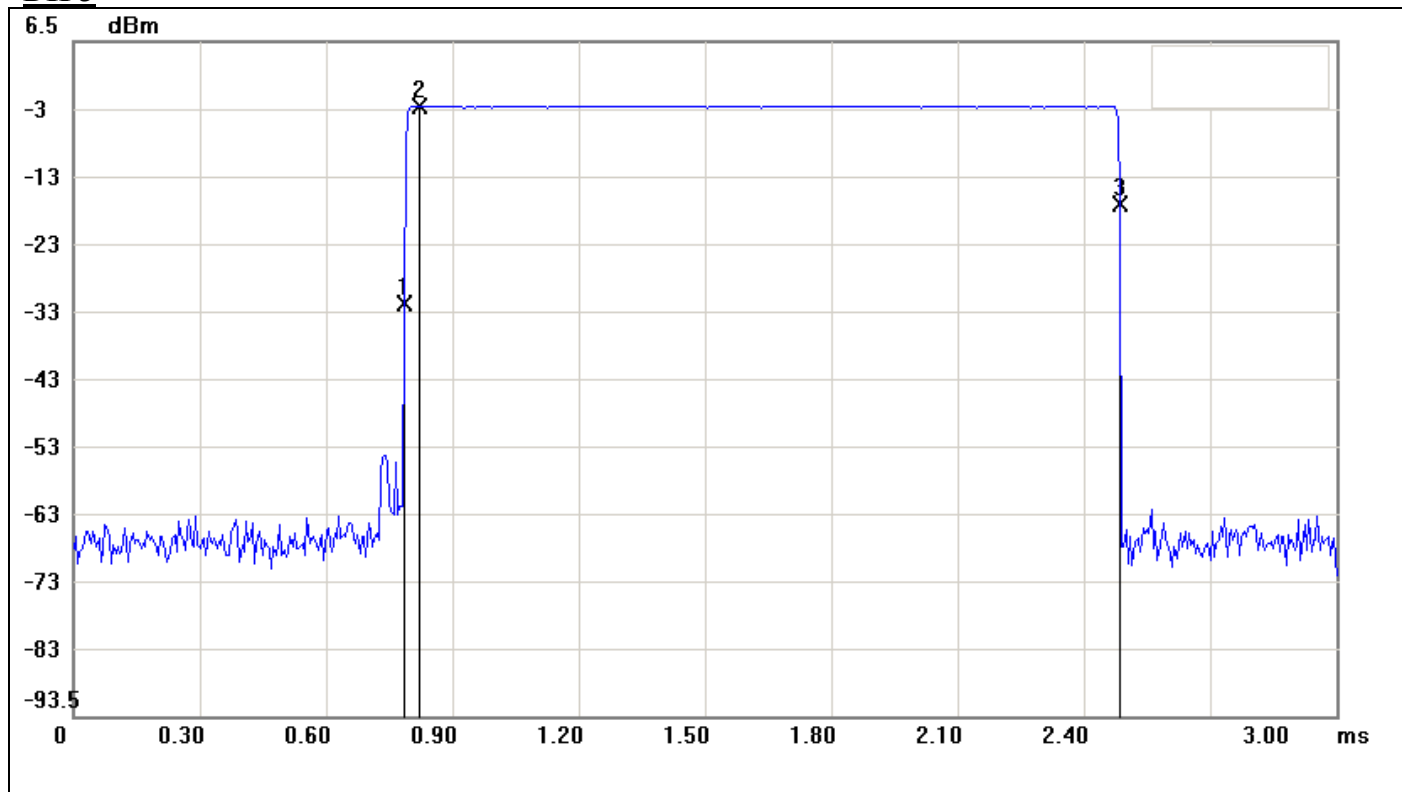


No.	Sweep time(ms)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	0.1950	-18.59		
2	0.2217	-3.04		
3	0.6317	-14.78		

No.		Δ Time(ms)	Δ Level(dB)
1	mk3-mk1	0.4367	3.81



DH 3

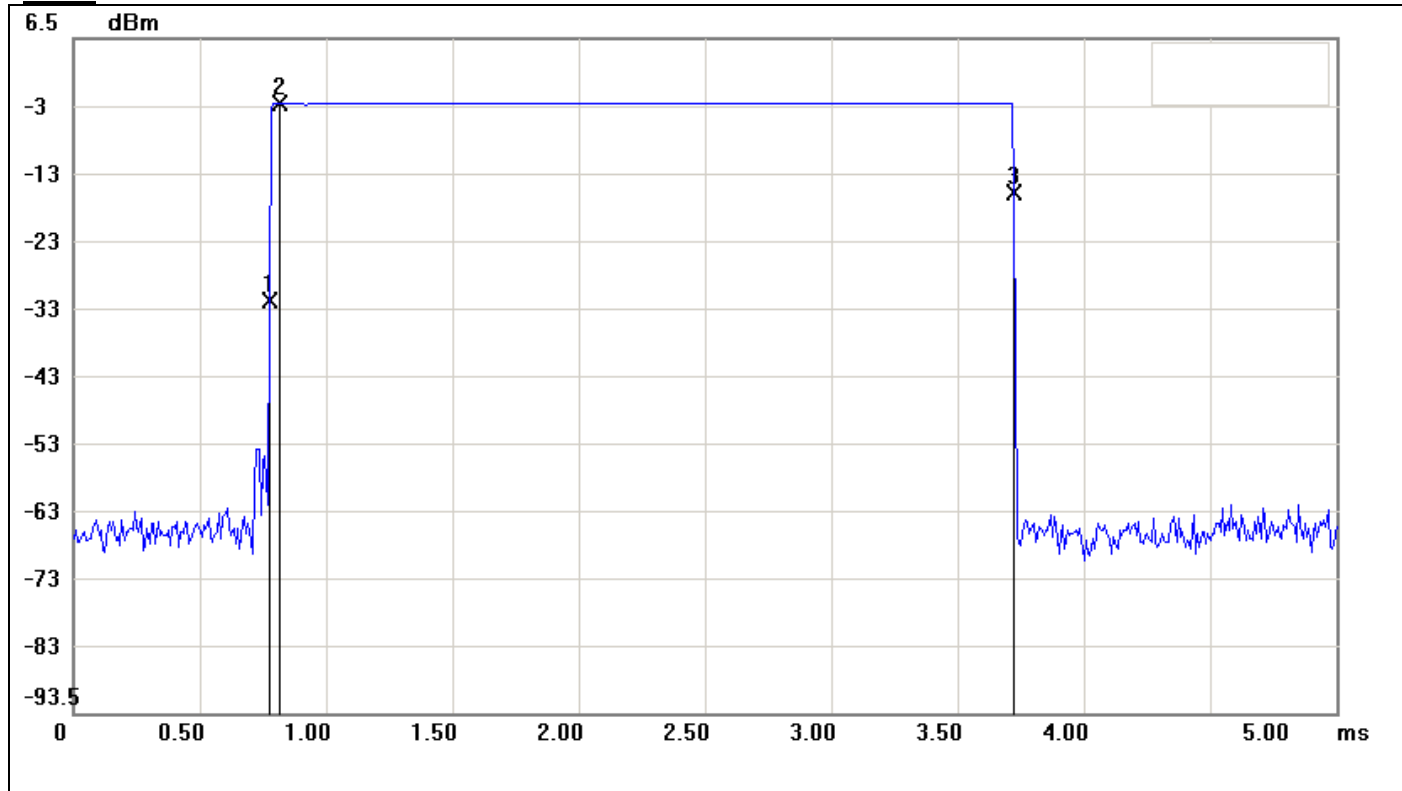


No.	Sweep time(ms)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	0.7850	-32.28		
2	0.8200	-3.04		
3	2.4850	-17.68		

No.		Δ Time(ms)	Δ Level(dB)
1	mk3-mk1	1.7	14.6



DH 5



No.	Sweep time(ms)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	0.7750	-32.28		
2	0.8167	-3.04		
3	3.7250	-16.45		

No.		Δ Time(ms)	Δ Level(dB)
1	mk3-mk1	2.95	15.83



7.7 SPURIOUS EMISSIONS

7.7.1 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 ($\mu\text{V/m}$)	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.

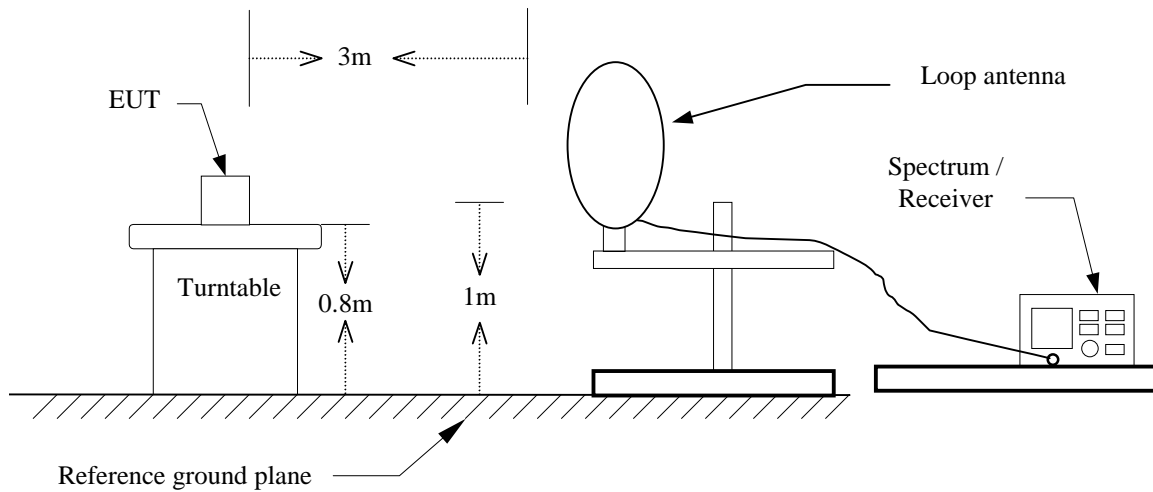
2. In the emission table above, the tighter limit applies at the band edges.

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

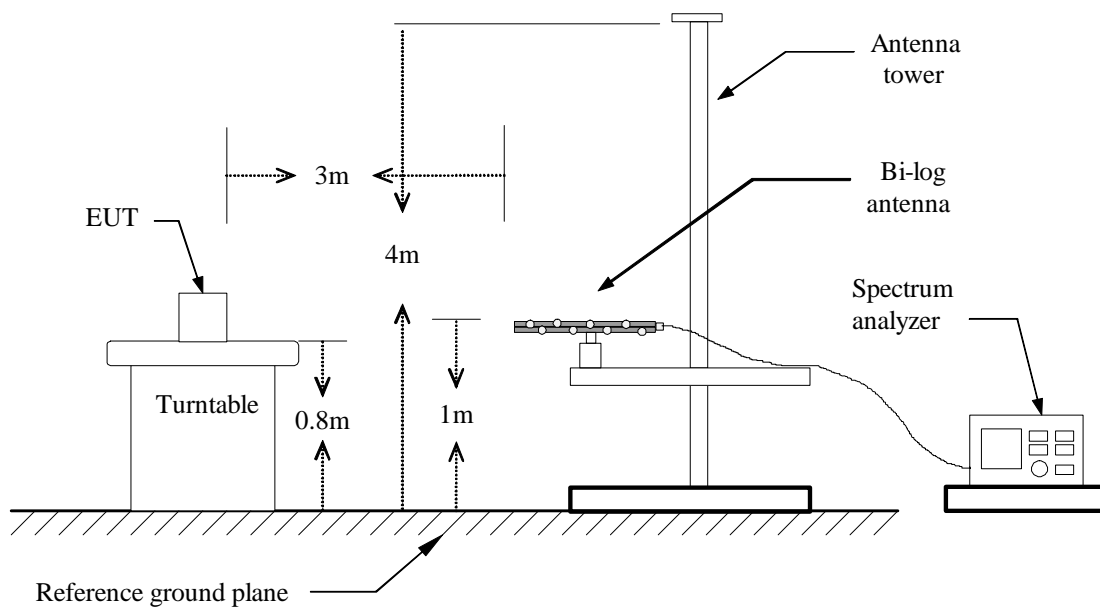


Test Configuration

9kHz ~ 30MHz

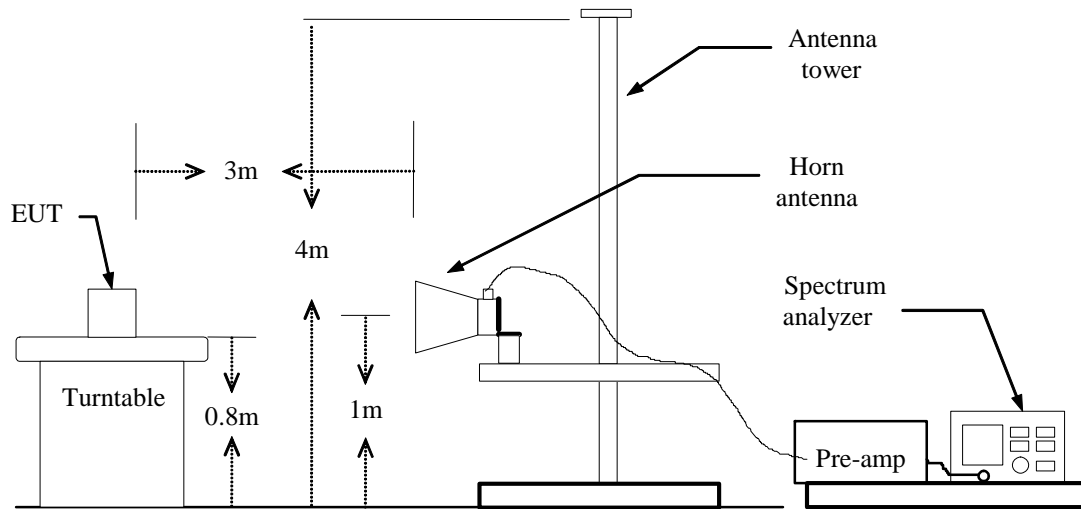


30MHz ~ 1GHz





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=1MHz VBW=3MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
7. Repeat above procedures until the measurements for all frequencies are complete.

**Below 1 GHz****Operation Mode:** Normal Link**Test Date:** March 19, 2012**Temperature:** 23°C**Tested by:** Sehni Hu**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBUV)	Correction Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
135.08	60.28	-27.92	32.35	43.50	-11.15	Peak	V
164.18	62.10	-28.91	33.18	43.50	-10.32	Peak	V
274.12	56.36	-26.82	29.54	46.00	-16.46	Peak	V
503.68	49.94	-22.18	27.76	46.00	-18.24	Peak	V
552.18	51.06	-21.57	29.49	46.00	-16.51	Peak	V
600.68	49.84	-20.92	28.93	46.00	-17.07	Peak	V
251.48	67.10	-28.31	38.79	46.00	-7.21	Peak	H
274.12	65.69	-26.82	38.87	46.00	-7.13	Peak	H
359.80	62.52	-24.93	37.59	46.00	-8.41	Peak	H
600.68	55.57	-20.92	34.65	46.00	-11.35	Peak	H
623.32	53.07	-20.25	32.81	46.00	-13.19	Peak	H
647.57	52.97	-19.54	33.43	46.00	-12.57	Peak	H

Remark:

1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).
2. Radiated emissions measured 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. $\text{Margin (dB)} = \text{Remark result (dBUV/m)} - \text{Quasi-peak limit (dBUV/m)}$.

**Above 1 GHz****Operation Mode:** TX / CH Low**Test Date:** March 19, 2012**Temperature:** 25°C**Tested by:** Sehni Hu**Humidity:** 50 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	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	Ant. Pol. (H/V)
2402.00	91.57	91.30	-4.27	87.30	87.03	Fundamental				V
1493.33	57.16	---	-10.56	46.60	---	74.00	54.00	-7.40	Peak	V
7208.33	48.14	48.02	7.27	55.41	55.29	67.30	67.03	-11.29	20dBc AVG Fundamenta	V
N/A										
2402.00	94.20	94.00	-4.27	89.93	89.73	Fundamental				H
4800.00	48.72	---	2.56	51.28	---	74.00	54.00	-2.72	Peak	H
7208.33	48.66	47.82	7.27	55.93	55.09	69.93	69.73	-14.63	20dBc AVG Fundamenta	H
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. Peak Margin (dB) = Peak result (dBuV/m) – Peak limit (dBuV/m).
Average Margin (dB) = Peak result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** TX / CH Mid**Test Date:** March 19, 2012**Temperature:** 25°C**Tested by:** Sehni Hu**Humidity:** 50 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	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	Ant.Pol. (H/V)
1500.00	55.89	---	-10.55	45.34	---	74.00	54.00	-8.66	Peak	V
7325.00	46.46	40.80	7.23	53.69	48.03	74.00	54.00	-5.97	AVG	V
N/A										
1890.00	52.56	---	-6.59	45.98	---	74.00	54.00	-8.02	Peak	H
4883.33	47.68	---	2.73	50.41	---	74.00	54.00	-3.59	Peak	H
7325.00	48.88	46.09	7.23	56.11	53.32	74.00	54.00	-0.68	AVG	H
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. Peak Margin (dB) = Peak result (dBuV/m) – Peak limit (dBuV/m).
Average Margin (dB) = Peak result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** TX / CH High**Test Date:** March 19, 2012**Temperature:** 23°C**Tested by:** Sehni Hu**Humidity:** 53 % RH**Polarity:** Ver. / Hor.

Frequency (MHz)	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	Ant.Pol. (H/V)
1496.67	55.93	---	-10.55	45.38	---	74.00	54.00	-8.62	Peak	V
4966.67	47.47	---	2.89	50.37	---	74.00	54.00	-3.63	Peak	V
7441.67	47.08	41.38	7.18	54.26	48.56	74.00	54.00	-5.44	AVG	V
N/A										
1733.33	52.14	---	-8.18	43.96	---	74.00	54.00	-10.04	Peak	H
7441.67	50.43	44.14	7.18	57.61	51.32	74.00	54.00	-2.68	AVG	H
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. Peak Margin (dB) = Peak result (dBuV/m) – Peak limit (dBuV/m).
Average Margin (dB) = Peak 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
Temperature: 26°C
Humidity: 60% RH

Test Date: April 9, 2012
Tested by: Pipo Hou

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Note
1	0.2279	16.89	10.21	27.10	52.52	-25.42	AVG	L1
2	0.2300	28.14	10.20	38.34	62.45	-24.11	QP	L1
3	0.4580	27.25	10.14	37.39	56.73	-19.34	QP	L1
4	0.4580	14.87	10.14	25.01	46.73	-21.72	AVG	L1
5	0.5780	28.14	10.14	38.28	56.00	-17.72	QP	L1
6	0.5780	16.29	10.14	26.43	46.00	-19.57	AVG	L1
7	0.6740	27.36	10.14	37.50	56.00	-18.50	QP	L1
8	0.6740	17.23	10.14	27.37	46.00	-18.63	AVG	L1
9	1.0220	29.34	10.14	39.48	56.00	-16.52	QP	L1
10	1.0220	19.42	10.14	29.56	46.00	-16.44	AVG	L1
11	1.8980	32.51	10.17	42.68	56.00	-13.32	QP	L1
12	1.8980	23.70	10.17	33.87	46.00	-12.13	AVG	L1
13	18.0179	17.69	10.46	28.15	50.00	-21.85	AVG	L1
14	18.0180	26.41	10.46	36.87	60.00	-23.13	QP	L1
1	0.1500	28.15	10.65	38.80	65.99	-27.19	QP	L2
2	0.1500	15.59	10.65	26.24	55.99	-29.75	AVG	L2
3	0.2260	26.32	10.56	36.88	62.59	-25.71	QP	L2
4	0.2260	17.44	10.56	28.00	52.59	-24.59	AVG	L2
5	0.4740	27.49	10.50	37.99	56.44	-18.45	QP	L2
6	0.4740	12.50	10.50	23.00	46.44	-23.44	AVG	L2
7	0.5780	28.37	10.50	38.87	56.00	-17.13	QP	L2
8	0.5780	16.00	10.50	26.50	46.00	-19.50	AVG	L2
9	0.7300	28.14	10.50	38.64	56.00	-17.36	QP	L2
10	0.7300	18.43	10.50	28.93	46.00	-17.07	AVG	L2
11	1.4460	29.38	10.54	39.92	56.00	-16.08	QP	L2
12	1.4460	21.32	10.54	31.86	46.00	-14.14	AVG	L2
13	1.8060	23.98	10.56	34.54	46.00	-11.46	AVG	L2
14	1.8180	33.27	10.56	43.83	56.00	-12.17	QP	L2

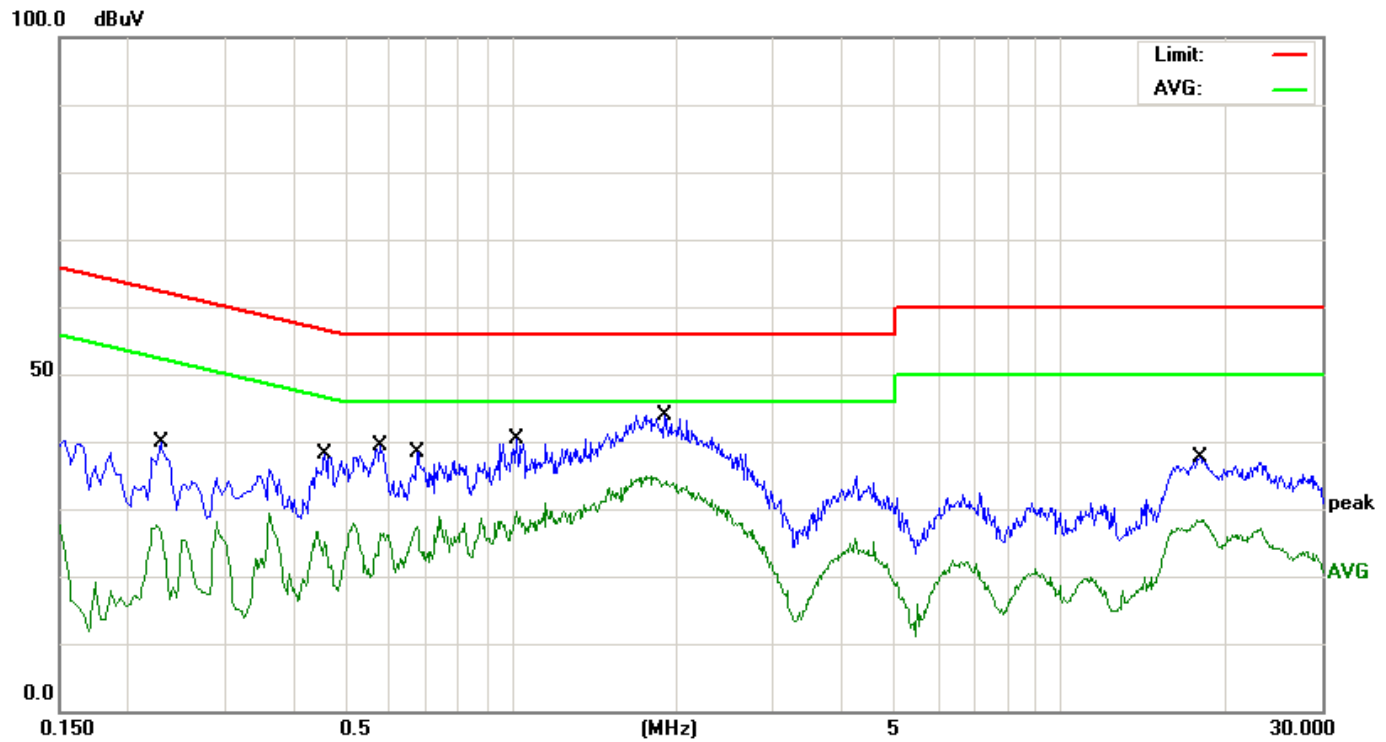
Remark:

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)
5. "-" means Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.



Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)

