

# FCC Radio Test Report

## FCC ID: XMF-MID1008

### Original Grant

**Report No.** : TB-FCC141573  
**Applicant** : Lightcomm Technology Co., Ltd.  
**Equipment Under Test (EUT)**  
**EUT Name** : MID  
**Model No.** : MID1008-L  
**Series Model No.** : DL1010Q  
**Brand Name** : N/A  
**Receipt Date** : 2014-08-11  
**Test Date** : 2014-08-12 to 2014-08-22  
**Issue Date** : 2014-08-26  
**Standards** : FCC Part 15, Subpart C (15.247:2012)  
**Test Method** : ANSI C63.4:2003  
**Conclusions** : **PASS**

In the configuration tested, the EUT complied with the standards specified above,

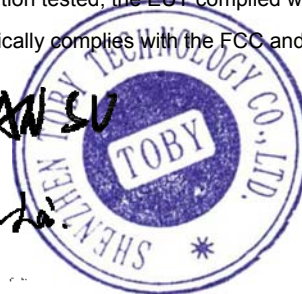
The EUT technically complies with the FCC and IC requirements

**Test/Witness Engineer** :

*IWAN SU*

**Approved & Authorized** :

*Ray*



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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## 1. General Information about EUT

### 1.1 Client Information

**Applicant** : Lightcomm Technology Co., Ltd.  
**Address** : RM 1708-10, 17/F, PROSPERITY CENTRE, 25 CHONG YIP STREET, KWUN TONG, KOWLOON, HONG KONG  
**Manufacturer** : Huizhou Hengdu Electronics Co., Ltd.  
**Address** : DIP South Area, Huiao Highway, Huizhou, Guangdong, China

### 1.2 General Description of EUT (Equipment Under Test)

<b>EUT Name</b>	:	MID		
<b>Models No.</b>	:	MID1008-L, DL1010Q		
<b>Model Difference</b>	:	All the other models are identical in the same PCB layout, interior structure and electrical circuits, The only difference is model name for commercial purpose.		
<b>Product Description</b>	:	Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11b/g/n(HT40): 2422MHz~2452MHz		
	:	<table border="1"> <tr> <td>Number of Channel:</td> <td>802.11b/g/n(HT20):11 channels see note(3) 802.11b/g/n(HT40): 7 channels see note(3)</td> </tr> </table>	Number of Channel:	802.11b/g/n(HT20):11 channels see note(3) 802.11b/g/n(HT40): 7 channels see note(3)
	Number of Channel:	802.11b/g/n(HT20):11 channels see note(3) 802.11b/g/n(HT40): 7 channels see note(3)		
	:	<table border="1"> <tr> <td>RF Output Power:</td> <td>802.11b: 9.56 dBm 802.11g: 9.46 dBm 802.11n (HT20): 9.45 dBm 802.11n (HT40): 9.56 dBm</td> </tr> </table>	RF Output Power:	802.11b: 9.56 dBm 802.11g: 9.46 dBm 802.11n (HT20): 9.45 dBm 802.11n (HT40): 9.56 dBm
	RF Output Power:	802.11b: 9.56 dBm 802.11g: 9.46 dBm 802.11n (HT20): 9.45 dBm 802.11n (HT40): 9.56 dBm		
	:	<table border="1"> <tr> <td>Antenna Gain:</td> <td>0 dBi (FPC Antenna)</td> </tr> </table>	Antenna Gain:	0 dBi (FPC Antenna)
Antenna Gain:	0 dBi (FPC Antenna)			
:	<table border="1"> <tr> <td>Modulation Type:</td> <td>802.11b: DSSS (CCK, QPSK, BPSK) 802.11g: OFDM 802.11n: OFDM</td> </tr> </table>	Modulation Type:	802.11b: DSSS (CCK, QPSK, BPSK) 802.11g: OFDM 802.11n: OFDM	
Modulation Type:	802.11b: DSSS (CCK, QPSK, BPSK) 802.11g: OFDM 802.11n: OFDM			
:	<table border="1"> <tr> <td>Bit Rate of Transmitter:</td> <td>802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps</td> </tr> </table>	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps	
Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps			
<b>Power Supply</b>	:	DC power supplied by AC/DC Adapter DC Voltage supplied from Li-Polymer battery.		
<b>Power Rating</b>	:	USB DC 5V form PC. AC/DC Adapter(TEKA012-0502000UK): Input: AC 100~240V 50/60Hz 0.35A Max. Output: DC 5V 2.0A DC 3.7V 5000mAh from Li-Polymer battery		
<b>Connecting I/O Port(S)</b>	:	The equipent have USB port for link with PC, so the equipment is considered as a Computing Device Peripheral. Please refer to the User's Manual		

**Note:** The equipment with Bluetooth and Wifi(802.11b/g/n) function, Bluetooth have test comply with FCC Part 15C Rules. More detailed features description, please refer to the manufacturer's specifications or the User's Manual.

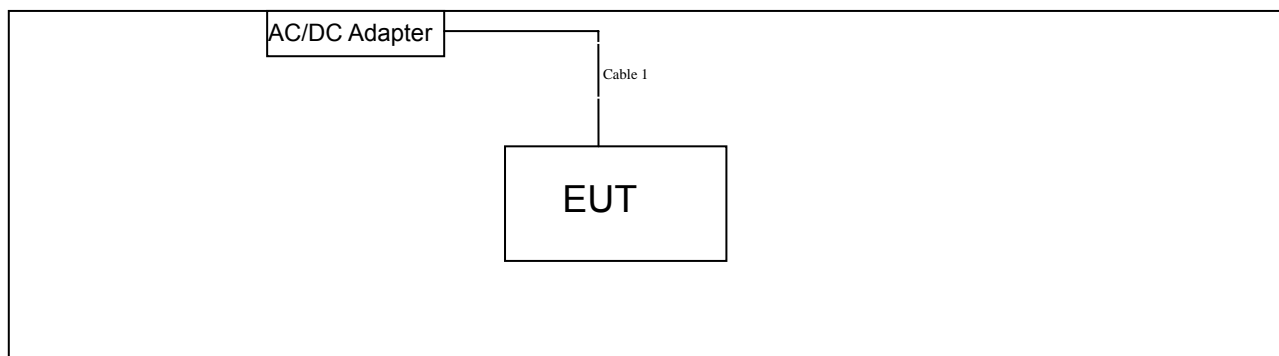
**Note:**

- (1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v03r02.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) Antenna information provided by the applicant.
- (4) Channel List:  
 CH 01~CH 11 for 802.11b/g/n(HT20)  
 CH 03~CH 09 for 802.11b/g/n(HT40)

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

### 1.3 Block Diagram Showing the Configuration of System Tested

**TX Mode**



### 1.4 Description of Support Units

Equipment Information				
Name	Model	S/N	Manufacturer	Used “√”
/	/	/	/	/
Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note
Cable 1	NO	NO	1.0M	Accessories

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## 1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test	
Final Test Mode	Description
Mode 1	AC Charging with TX B Mode

For Radiated Test	
Final Test Mode	Description
Mode 3	TX Mode B Mode Channel 01/06/11
Mode 4	TX Mode G Mode Channel 01/06/11
Mode 5	TX Mode N(HT20) Mode Channel 01/06/11
Mode 6	TX Mode N(HT40) Mode Channel 01/06/11

### Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.4 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

- 802.11b Mode: CCK (1 Mbps)
- 802.11g Mode: OFDM (6 Mbps)
- 802.11n (HT20) Mode: MCS 0 (6.5 Mbps)
- 802.11n (HT40) Mode: MCS 0 (13 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a mobile unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

## 1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be

fixed on the firmware of the final end product power parameters of WLAN.

Test Software Version	Test Program: Test Program: MTK Engineer Mode Open. apk		
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	DEF	DEF	DEF
IEEE 802.11g OFDM	DEF	DEF	DEF
IEEE 802.11n (HT20)	DEF	DEF	DEF
Channel	CH 03	CH 06	CH 09
IEEE 802.11n (HT40)	DEF	DEF	DEF

## 1.7 Test Facility

The testing was performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at:

1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China.

At the time of testing, the following bodies accredited the Laboratory:

### **CNAS (L5813)**

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

### **FCC List No.: (811562)**

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

### **IC Registration No.: (11950A-1)**

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

## 2. Test Summary

FCC Part 15 Subpart C(15.247)/RSS-210: 2010				
Standard Section		Test Item	Judgment	Remark
FCC	IC			
15.203	/	Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A
15.247(a)(2)	RSS-210 A.8.2(a)	6dB Bandwidth	PASS	N/A
15.247(b)	RSS-210 A.8.4(4)	Peak Output Power	PASS	N/A
15.247(e)	RSS-210 A.8.2(b)	Power Spectral Density	PASS	N/A
15.247(d)	RSS-210 Annex 8 (A8.5)	Transmitter Radiated Spurious Emission	PASS	N/A
15.247(d)	RSS-210 Annex 8 (A8.5)	Antenna Conducted Spurious Emission	PASS	N/A

**Note:** "/" for no requirement for this test item.  
N/A is an abbreviation for Not Applicable.



### 3. Conducted Emission Test

#### 3.1 Test Standard and Limit

##### 3.1.1 Test Standard

FCC Part 15.207

##### 3.1.2 Test Limit

**Conducted Emission Test Limit**

Frequency	Maximum RF Line Voltage (dB $\mu$ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

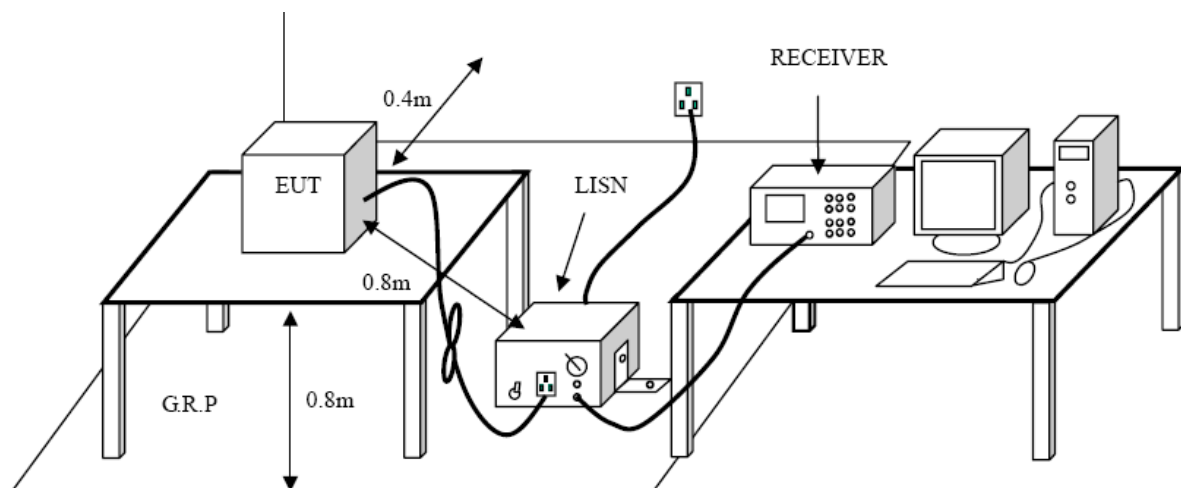
Notes:

(1) \*Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequencies.

(3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

#### 3.2 Test Setup



#### 3.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

### 3.4 Test Equipment Used

Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	ROHDE& SCHWARZ	ESCI	100321	Aug. 08, 2014	Aug. 07, 2015
50ΩCoaxial Switch	Anritsu	MP59B	X10321	Aug. 08, 2014	Aug. 07, 2015
L.I.S.N	Rohde & Schwarz	ENV216	101131	Aug. 08, 2014	Aug. 07, 2015
L.I.S.N	SCHWARZBECK	NNBL 8226-2	8226-2/164	Aug. 08, 2014	Aug. 07, 2015

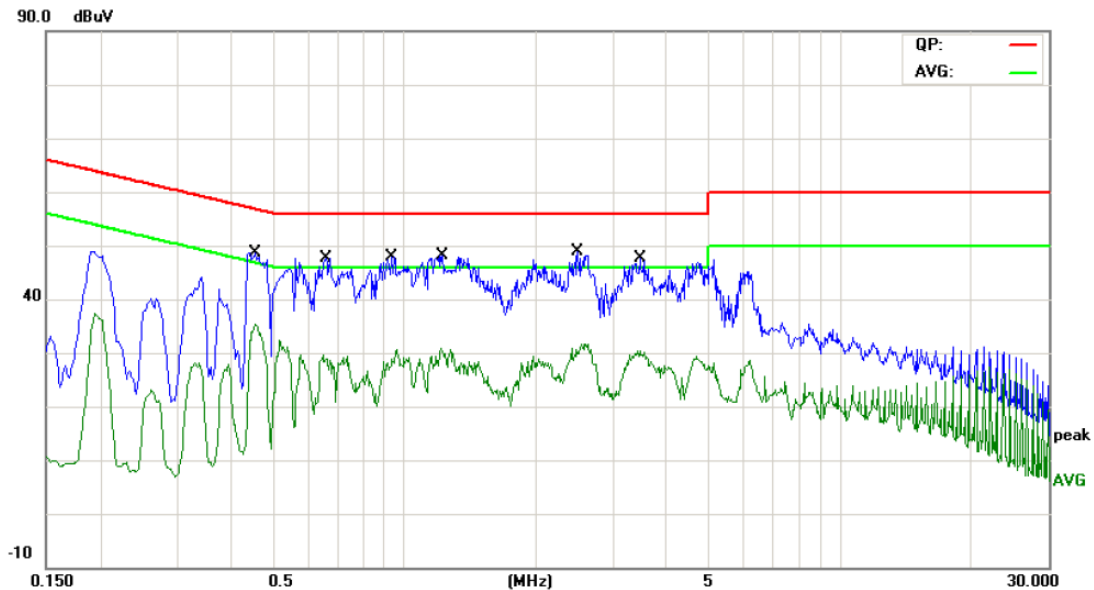
### 3.5 EUT Operating Mode

Please refer to the description of test mode.

### 3.6 Test Data

Please see the next page.

<b>EUT:</b>	MID	<b>Model Name :</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Terminal:</b>	Line		
<b>Test Mode:</b>	AC Charging with TX B Mode		
<b>Remark:</b>	Only worse case is reported		

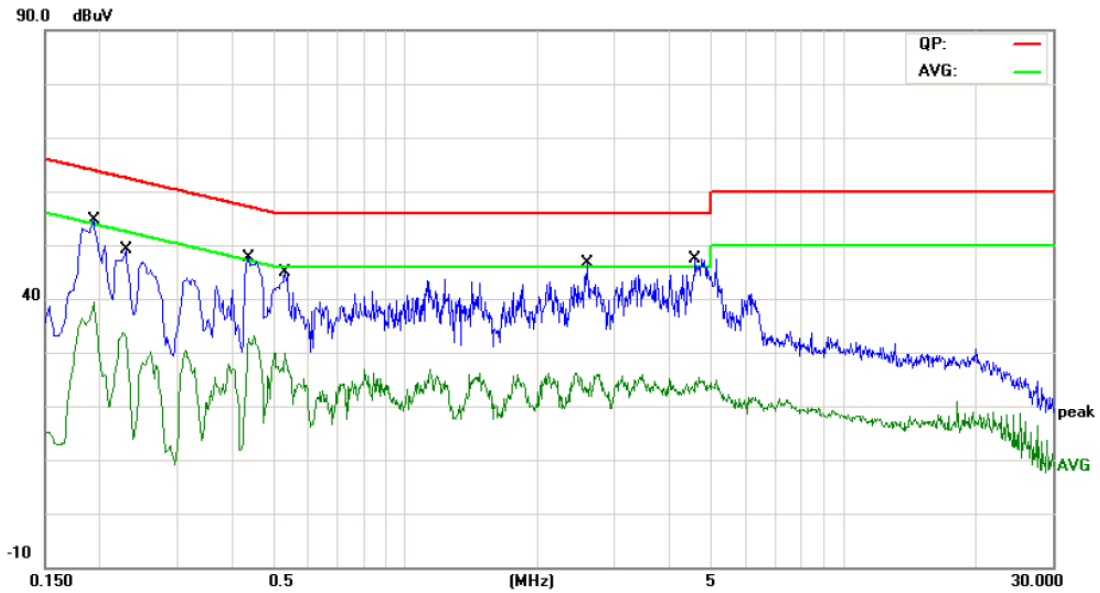


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4540	36.25	10.02	46.27	56.80	-10.53	QP	
2		0.4540	25.10	10.02	35.12	46.80	-11.68	AVG	
3		0.6580	33.27	10.10	43.37	56.00	-12.63	QP	
4		0.6580	18.74	10.10	28.84	46.00	-17.16	AVG	
5		0.9340	32.70	10.07	42.77	56.00	-13.23	QP	
6		0.9340	16.66	10.07	26.73	46.00	-19.27	AVG	
7		1.2220	32.94	10.06	43.00	56.00	-13.00	QP	
8		1.2220	19.80	10.06	29.86	46.00	-16.14	AVG	
9		2.4900	31.89	10.04	41.93	56.00	-14.07	QP	
10		2.4900	19.98	10.04	30.02	46.00	-15.98	AVG	
11		3.4660	29.89	10.01	39.90	56.00	-16.10	QP	
12		3.4660	19.08	10.01	29.09	46.00	-16.91	AVG	

\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	MID	<b>Model Name :</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Terminal:</b>	Neutral		
<b>Test Mode:</b>	AC Charging with TX B Mode		
<b>Remark:</b>	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1940	40.98	10.01	50.99	63.86	-12.87	QP	
2		0.1940	27.02	10.01	37.03	53.86	-16.83	AVG	
3		0.2300	30.90	10.02	40.92	62.45	-21.53	QP	
4		0.2300	16.35	10.02	26.37	52.45	-26.08	AVG	
5		0.4380	33.71	10.02	43.73	57.10	-13.37	QP	
6		0.4380	20.97	10.02	30.99	47.10	-16.11	AVG	
7		0.5299	30.17	10.03	40.20	56.00	-15.80	QP	
8		0.5299	18.25	10.03	28.28	46.00	-17.72	AVG	
9		2.6020	24.44	10.04	34.48	56.00	-21.52	QP	
10		2.6020	11.68	10.04	21.72	46.00	-24.28	AVG	
11		4.5739	26.54	9.97	36.51	56.00	-19.49	QP	
12		4.5739	12.45	9.97	22.42	46.00	-23.58	AVG	

\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**

## 4. Radiated Emission Test

### 4.1 Test Standard and Limit

#### 4.1.1 Test Standard

FCC Part 15.209

#### 4.1.2 Test Limit

**Radiated Emission Limits (9kHz~1000MHz)**

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

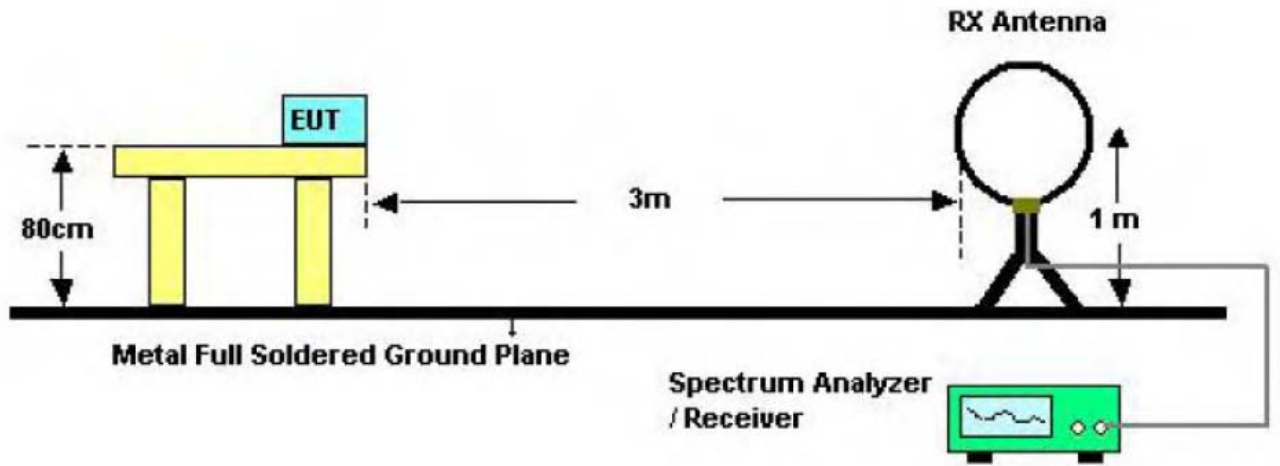
**Radiated Emission Limit (Above 1000MHz)**

Frequency (MHz)	Class A (dBuV/m)(at 3 M)		Class B (dBuV/m)(at 3 M)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

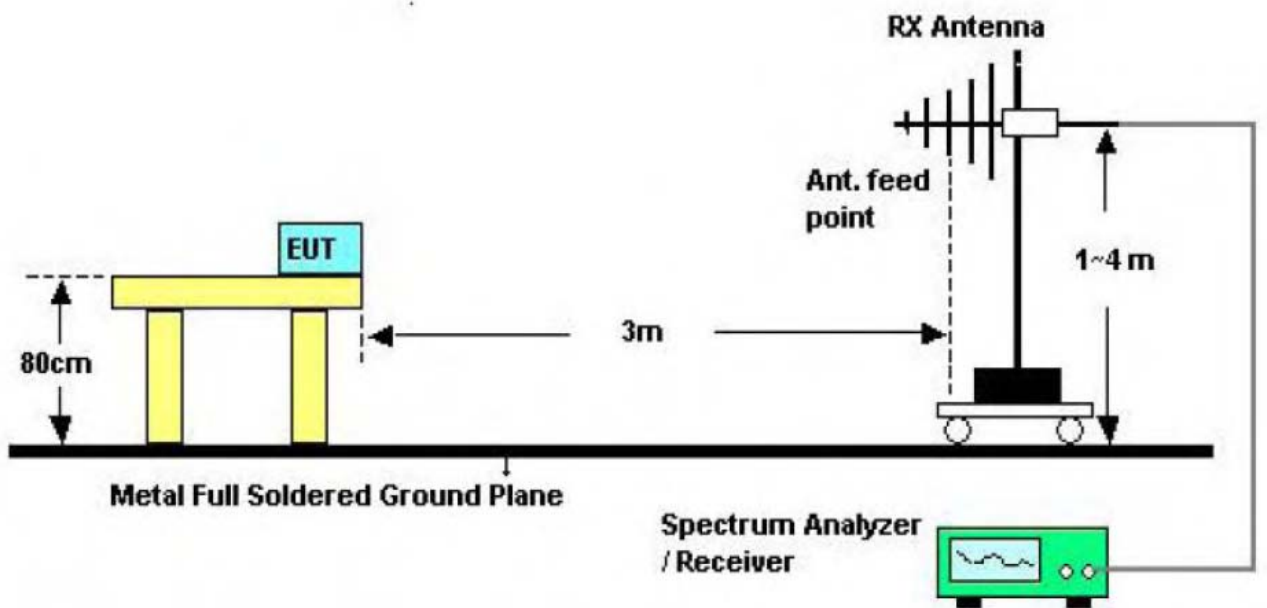
**Note:**

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

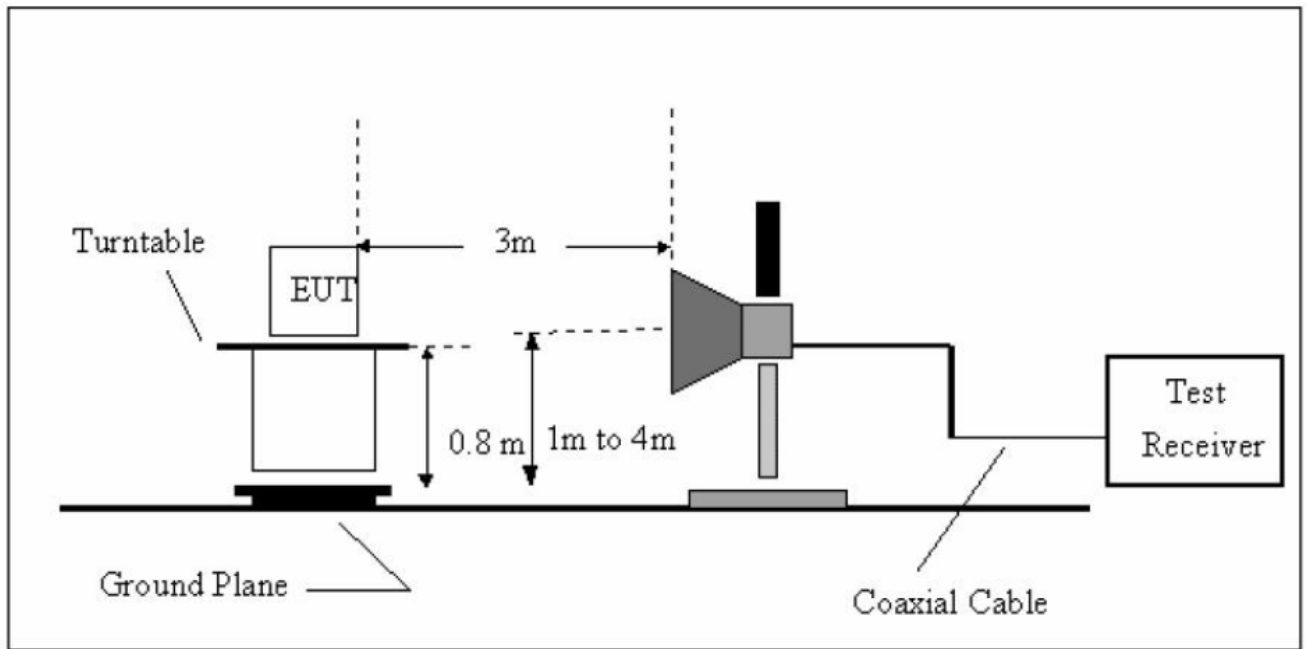
4.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

#### 4.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (6) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (7) For the actual test configuration, please see the test setup photo.

#### 4.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

## 4.5 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Mar. 20, 2014	Mar. 19, 2015
Spectrum Analyzer	Rohde & Schwarz	FSP30	DE25181	Aug. 08, 2014	Aug. 07, 2015
EMI Test Receiver	Rohde & Schwarz	ESCI	101165	Aug. 08, 2014	Aug. 07, 2015
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 07, 2014	Mar.06, 2015
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 07, 2014	Mar.06, 2015
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 07, 2014	Mar.06, 2015
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 07, 2014	Mar.06, 2015
Pre-amplifier	HP	11909A	185903	Mar. 07, 2014	Mar.06, 2015
Pre-amplifier	HP	8447B	3008A00849	Mar. 07, 2014	Mar.06, 2015
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 07, 2014	Mar.06, 2015
Signal Generator	Rohde & Schwarz	SML03	IKW682-054	Feb. 11, 2014	Feb.10, 2015
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A

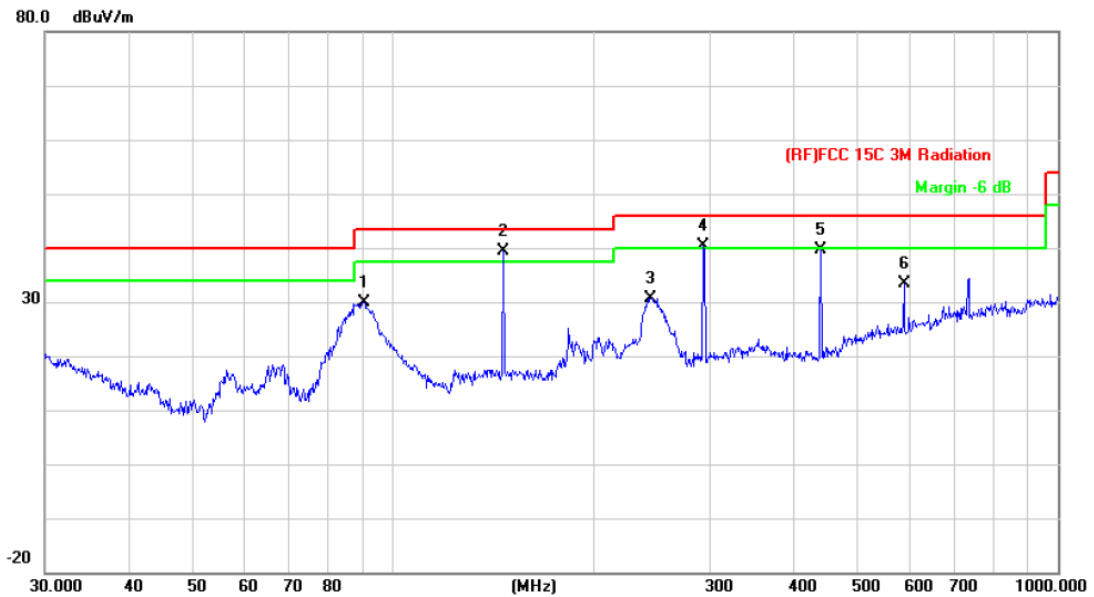
## 4.6 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.



<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	Only worse case is reported		

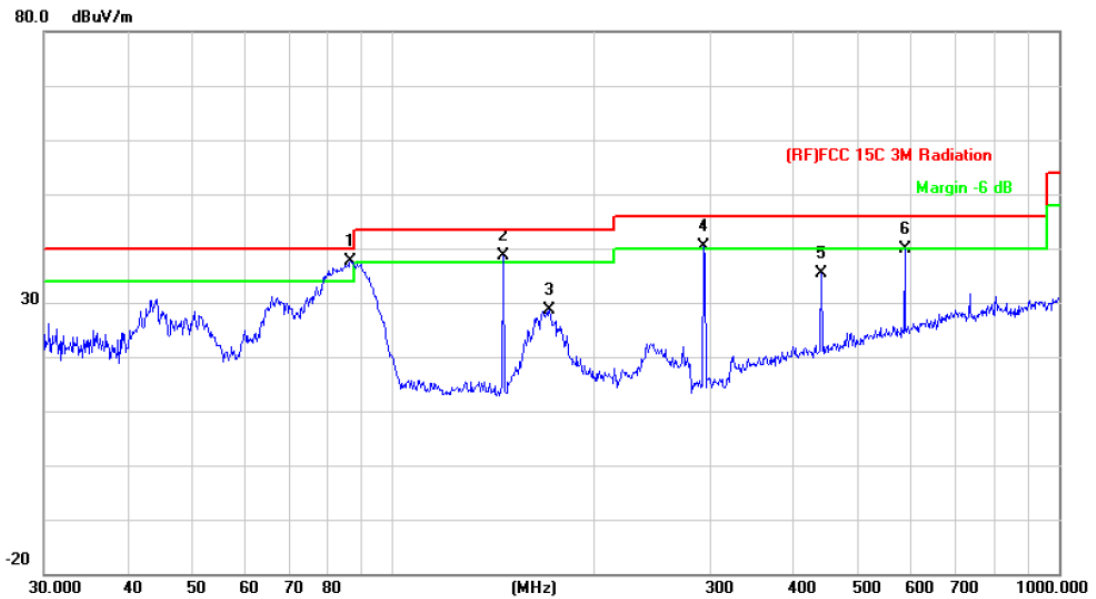


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		90.5374	52.48	-22.65	29.83	43.50	-13.67	peak
2	*	146.3735	60.97	-21.47	39.50	43.50	-4.00	peak
3		244.2321	49.04	-18.40	30.64	46.00	-15.36	peak
4	!	293.0842	57.59	-17.22	40.37	46.00	-5.63	peak
5		440.1963	52.35	-12.64	39.71	46.00	-6.29	peak
6		586.8437	43.17	-9.82	33.35	46.00	-12.65	peak

\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	Only worse case is reported		

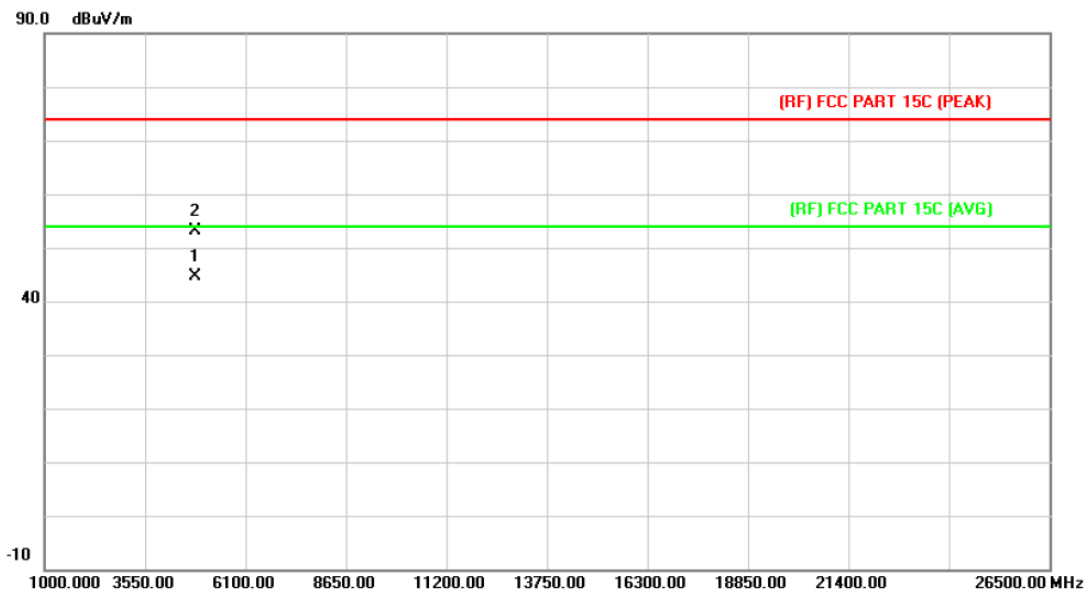


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	86.5027	60.46	-22.89	37.57	40.00	-2.43	peak
2	!	146.3735	60.20	-21.47	38.73	43.50	-4.77	peak
3		171.9945	49.61	-21.06	28.55	43.50	-14.95	peak
4	!	293.0842	57.51	-17.22	40.29	46.00	-5.71	peak
5		440.1963	48.11	-12.64	35.47	46.00	-10.53	peak
6		586.8437	49.58	-9.82	39.76	46.00	-6.24	peak

\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**

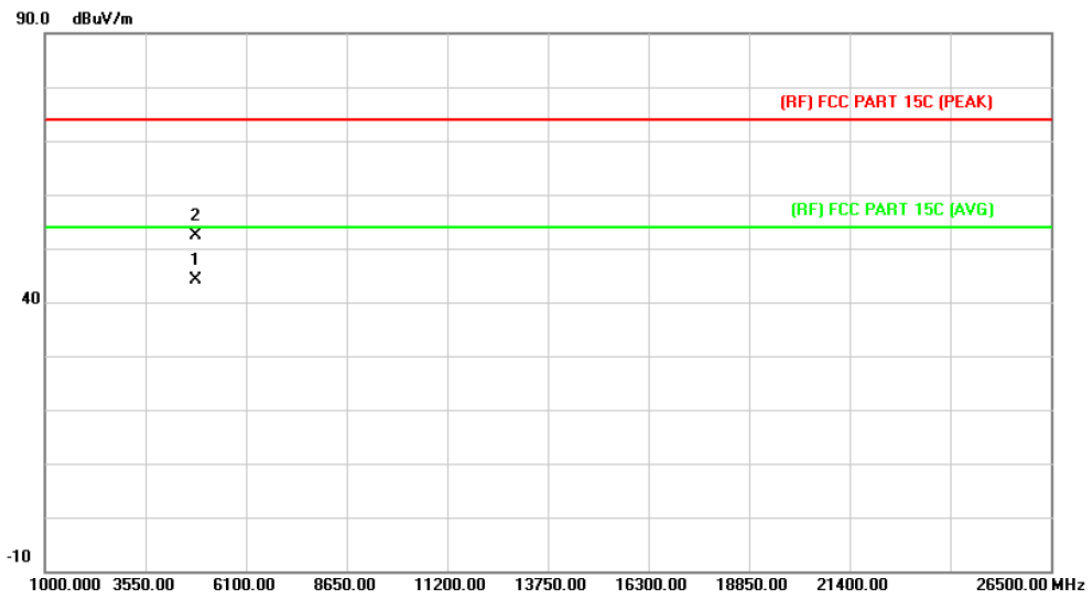
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4824.012	31.11	13.56	44.67	54.00	-9.33	AVG
2		4824.364	39.58	13.56	53.14	74.00	-20.86	peak

Emission Level= Read Level+ Correct Factor

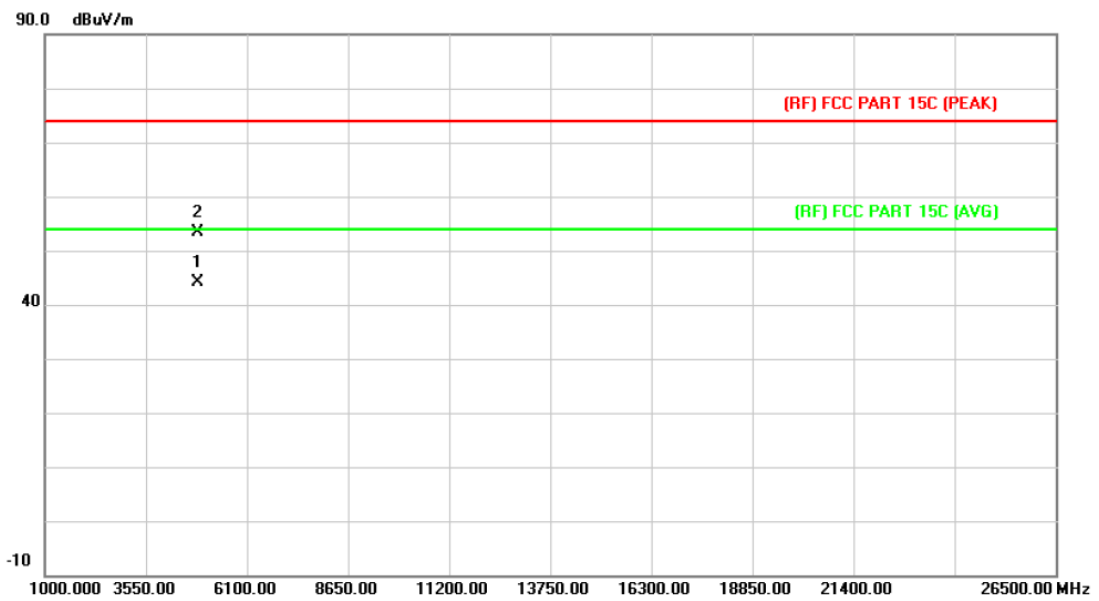
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4824.009	30.67	13.56	44.23	54.00	-9.77	AVG
2		4824.159	38.81	13.56	52.37	74.00	-21.63	peak

Emission Level= Read Level+ Correct Factor

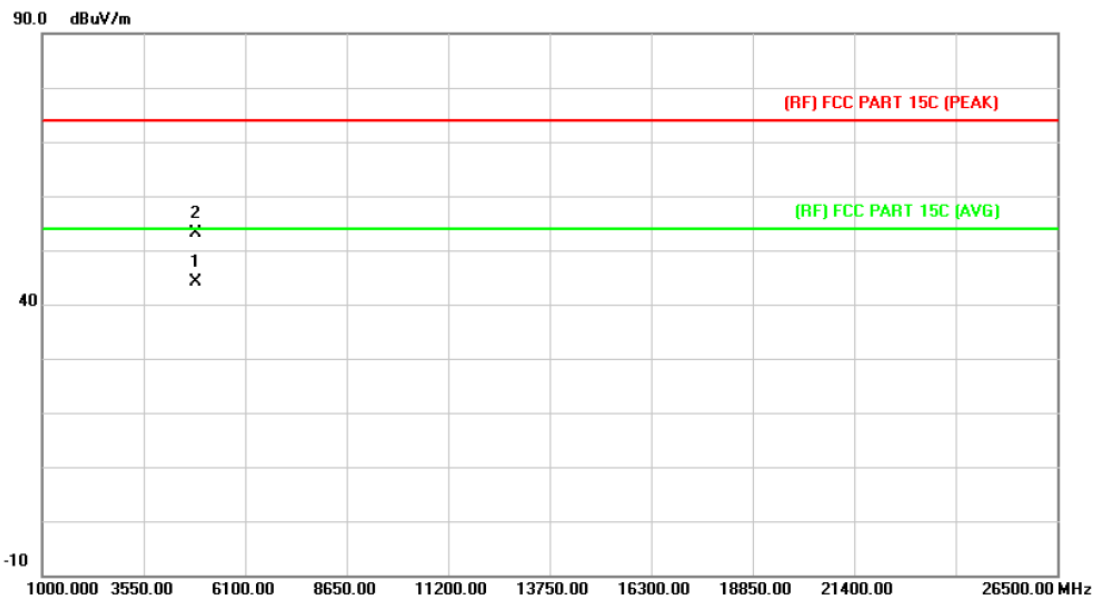
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4873.456	30.26	13.86	44.12	54.00	-9.88	AVG
2		4873.987	39.45	13.86	53.31	74.00	-20.69	peak

Emission Level= Read Level+ Correct Factor

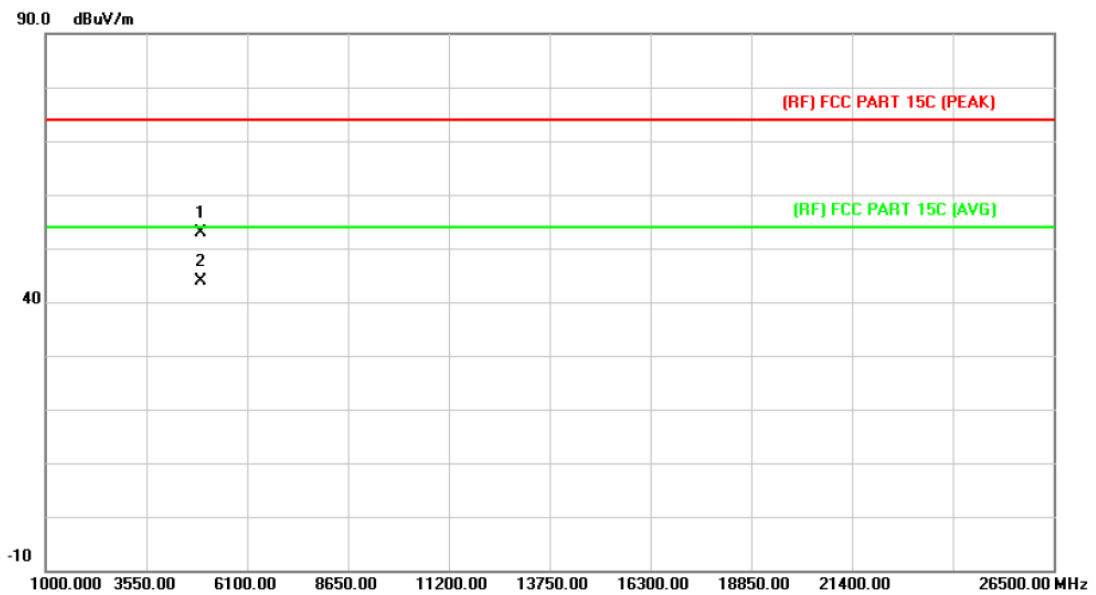
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4874.001	30.31	13.86	44.17	54.00	-9.83	AVG
2		4874.310	39.24	13.86	53.10	74.00	-20.90	peak

Emission Level= Read Level+ Correct Factor

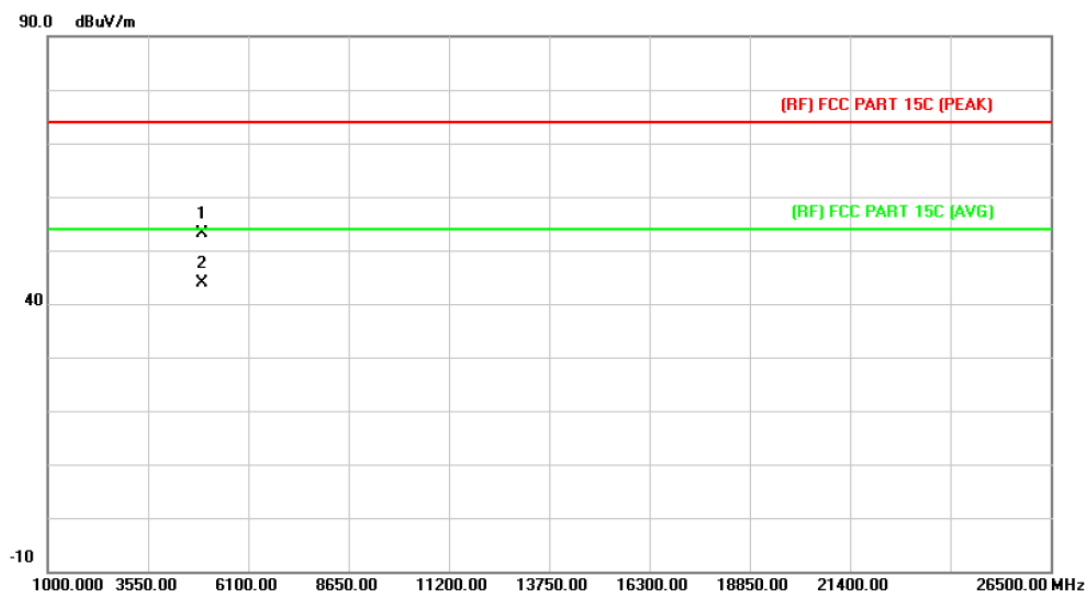
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4923.148	38.63	14.15	52.78	74.00	-21.22	peak
2	*	4923.674	29.83	14.15	43.98	54.00	-10.02	AVG

**Emission Level= Read Level+ Correct Factor**

<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

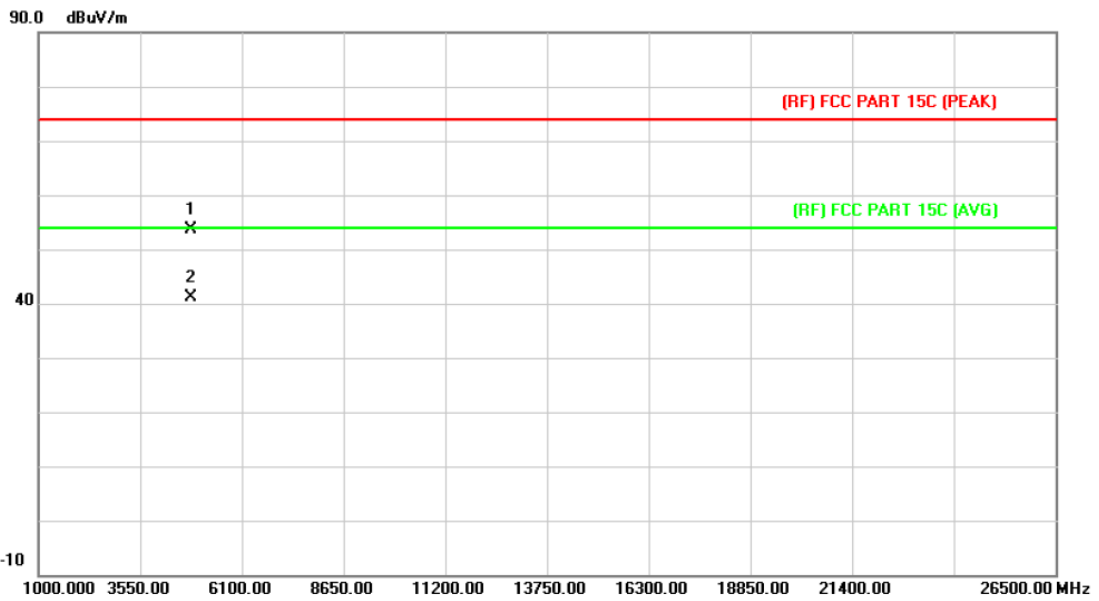


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4923.147	39.09	14.15	53.24	74.00	-20.76	peak
2	*	4923.611	29.69	14.15	43.84	54.00	-10.16	AVG

Emission Level= Read Level+ Correct Factor



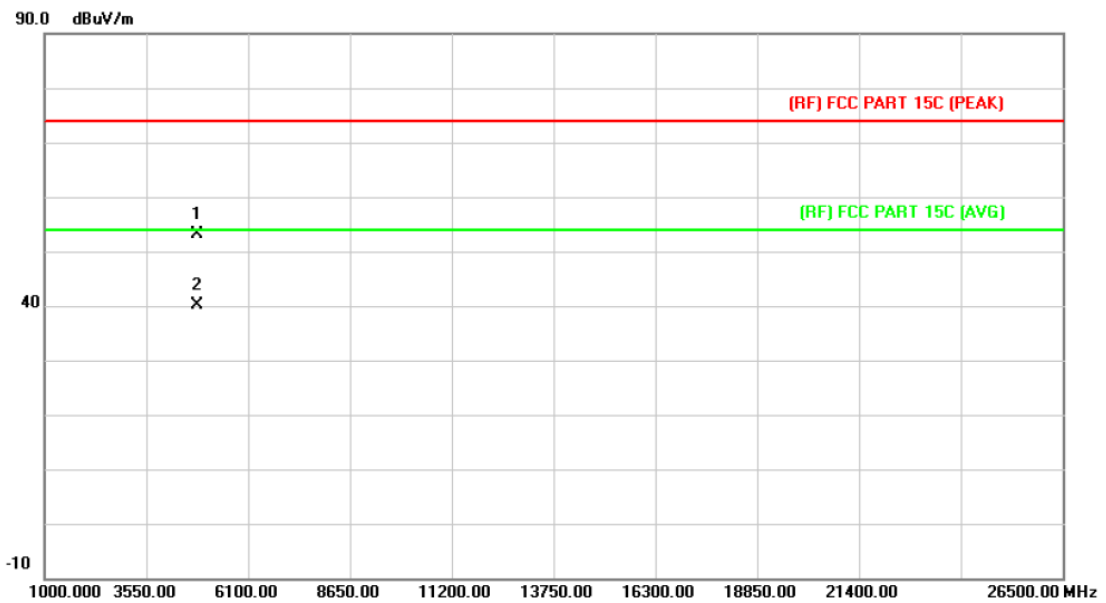
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4823.271	40.11	13.56	53.67	74.00	-20.33	peak
2	*	4823.612	27.46	13.56	41.02	54.00	-12.98	AVG

Emission Level= Read Level+ Correct Factor

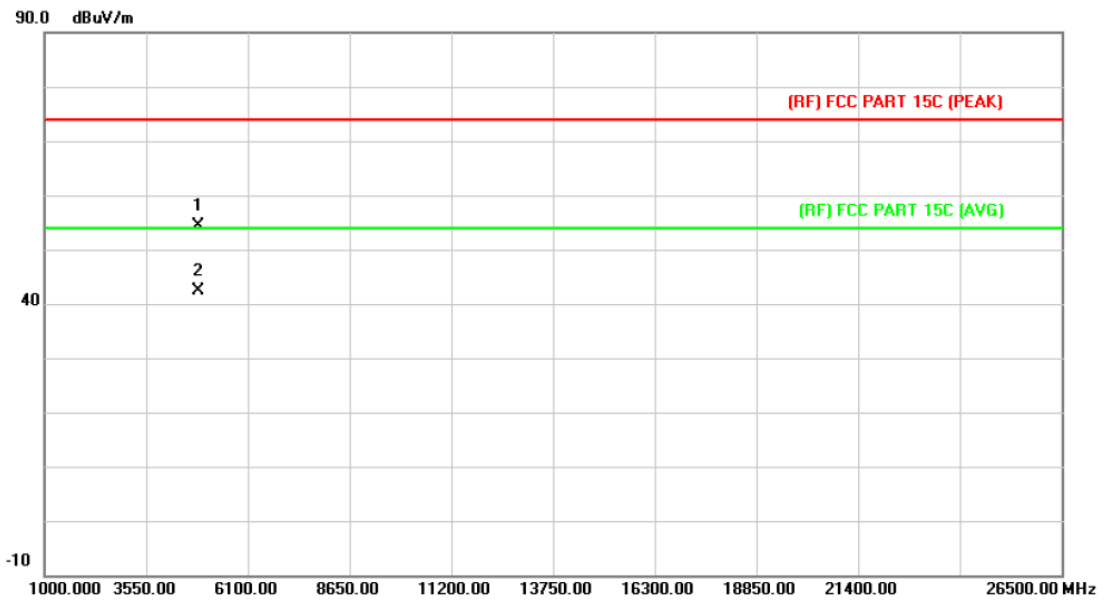
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4823.484	39.56	13.56	53.12	74.00	-20.88	peak
2	*	4823.697	26.57	13.56	40.13	54.00	-13.87	AVG

Emission Level= Read Level+ Correct Factor

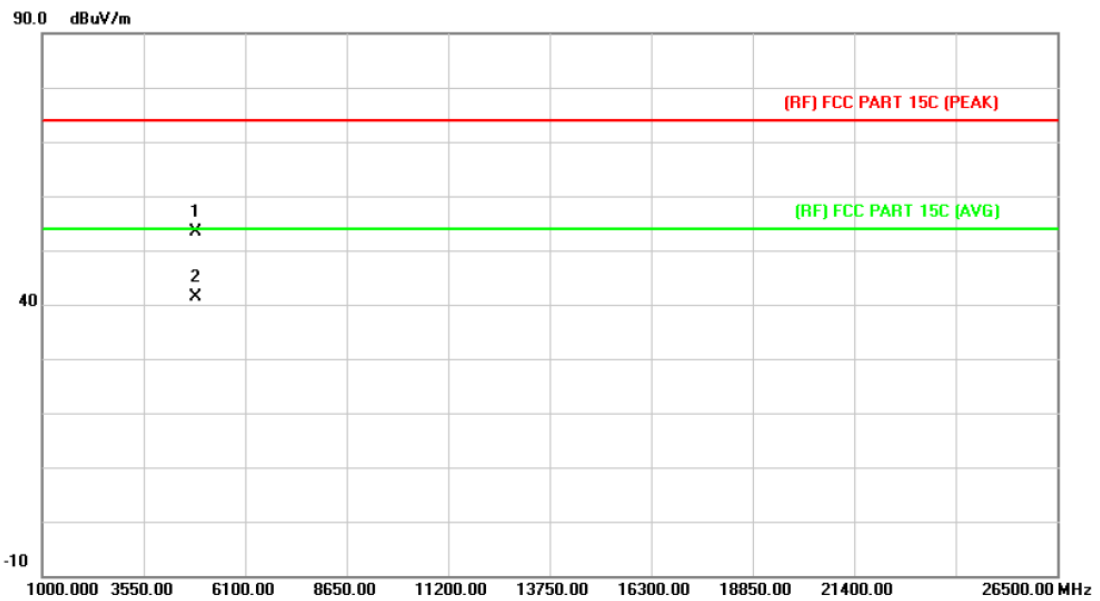
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4873.193	40.45	13.86	54.31	74.00	-19.69	peak
2	*	4873.671	28.56	13.86	42.42	54.00	-11.58	AVG

**Emission Level= Read Level+ Correct Factor**

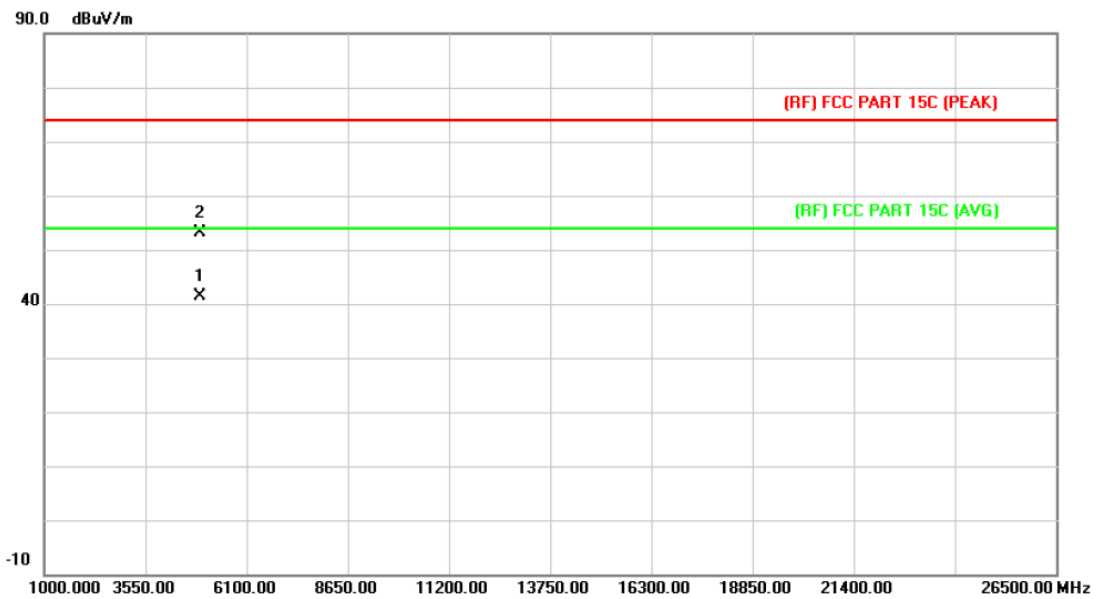
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4873.674	39.50	13.86	53.36	74.00	-20.64	peak
2	*	4873.687	27.49	13.86	41.35	54.00	-12.65	AVG

**Emission Level= Read Level+ Correct Factor**

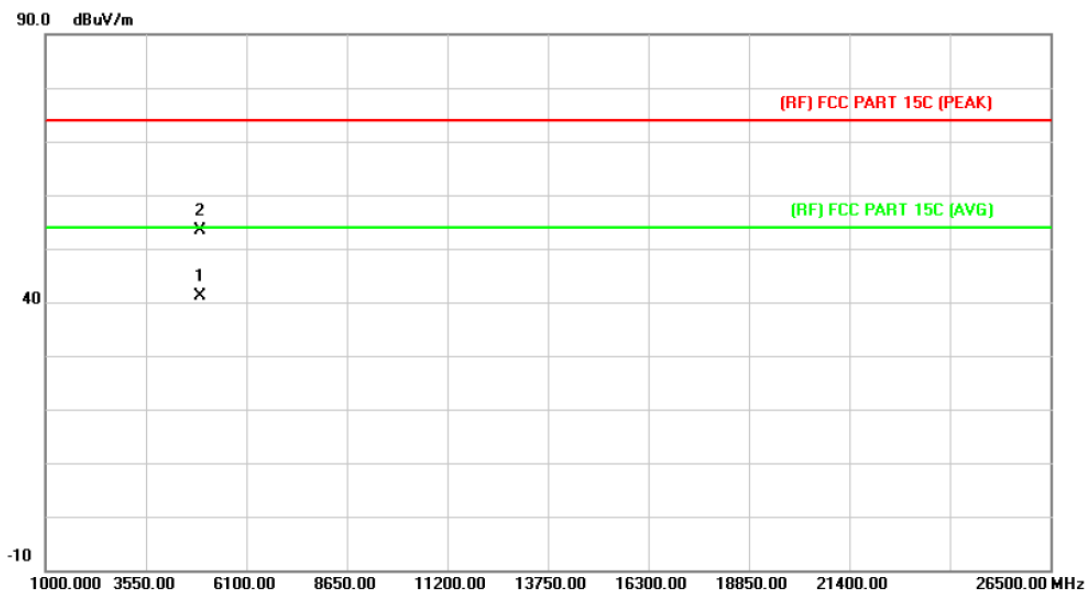
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4923.126	27.21	14.15	41.36	54.00	-12.64	AVG
2		4923.148	39.09	14.15	53.24	74.00	-20.76	peak

**Emission Level= Read Level+ Correct Factor**

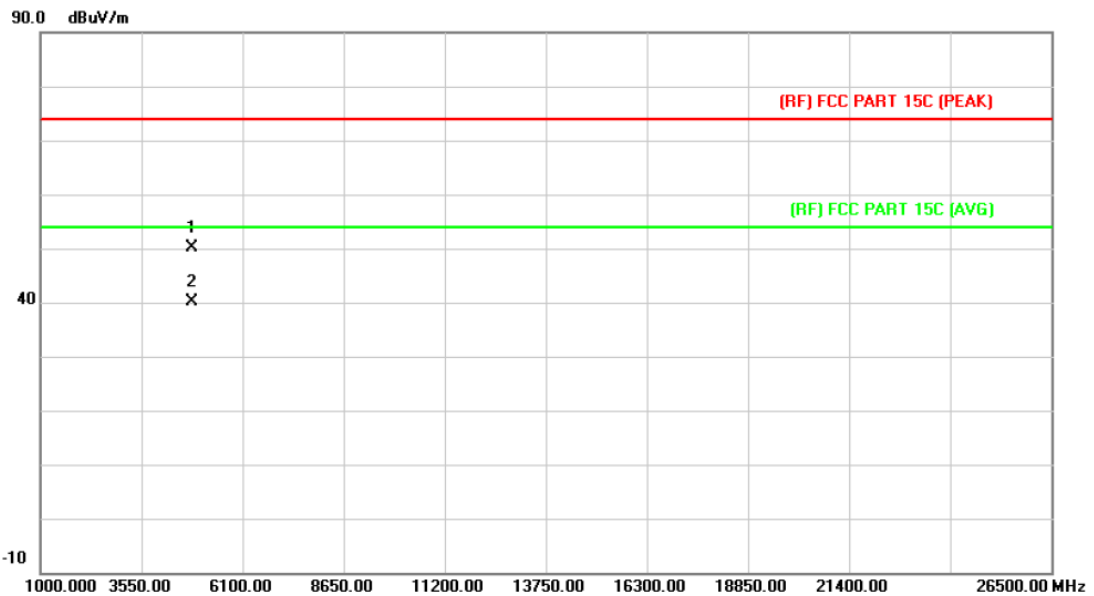
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4923.428	26.88	14.15	41.03	54.00	-12.97	AVG
2		4923.670	39.33	14.15	53.48	74.00	-20.52	peak

**Emission Level= Read Level+ Correct Factor**

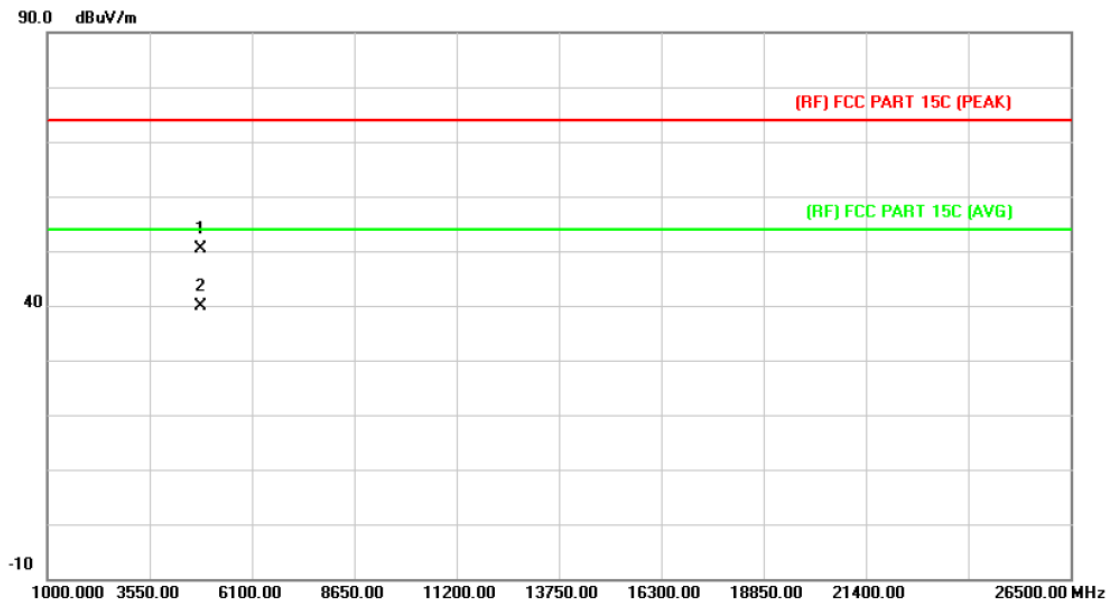
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4823.173	36.56	13.56	50.12	74.00	-23.88	peak
2	*	4823.354	26.58	13.56	40.14	54.00	-13.86	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2412MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

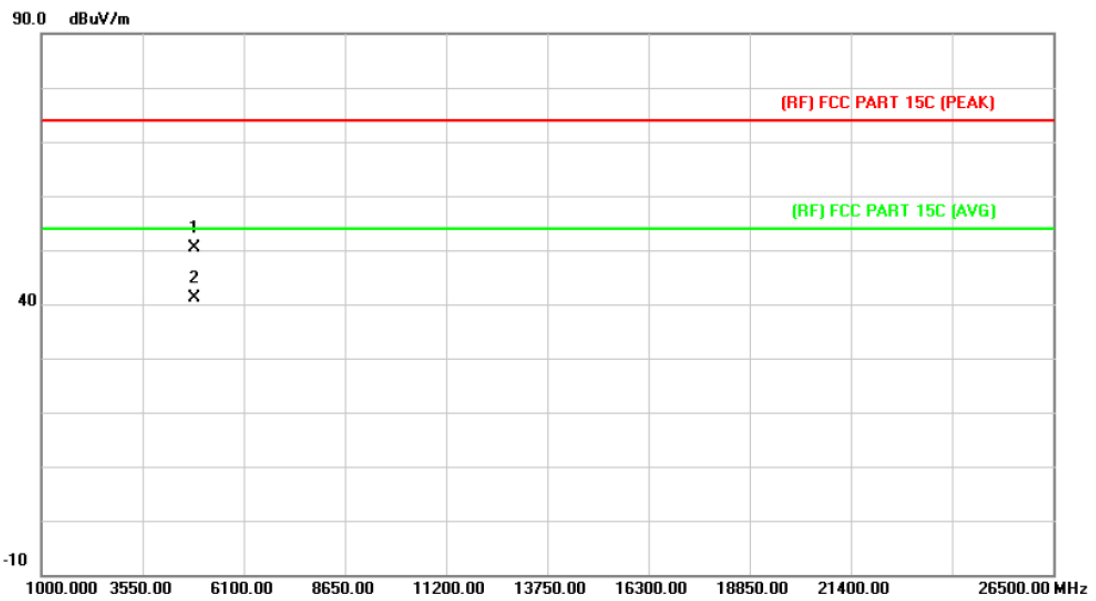


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4823.764	36.75	13.56	50.31	74.00	-23.69	peak
2	*	4823.831	26.22	13.56	39.78	54.00	-14.22	AVG

Emission Level= Read Level+ Correct Factor



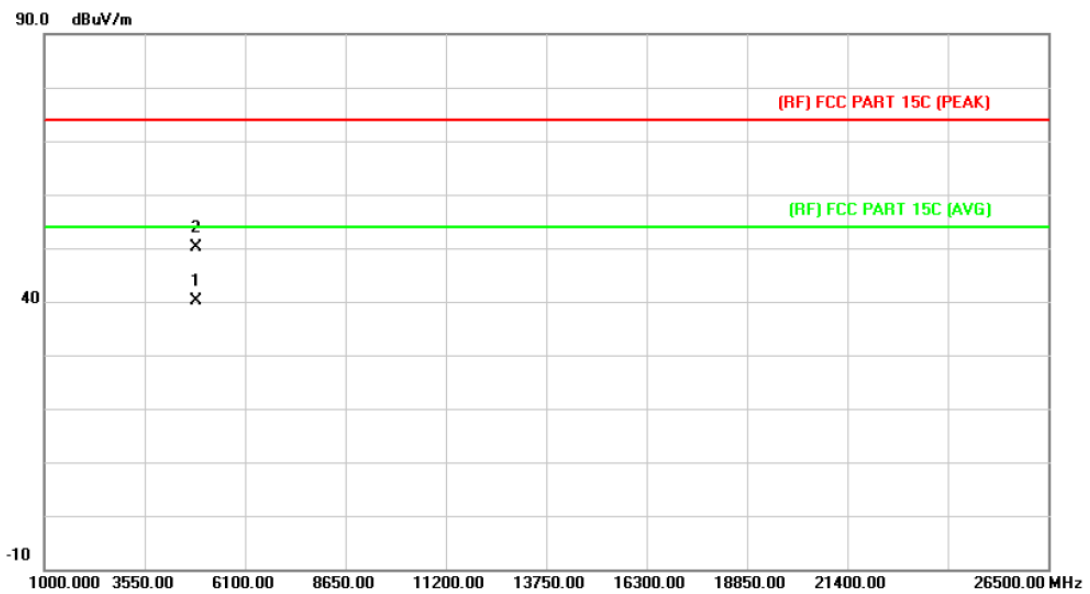
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4873.128	36.53	13.86	50.39	74.00	-23.61	peak
2	*	4873.684	27.21	13.86	41.07	54.00	-12.93	AVG

Emission Level= Read Level+ Correct Factor

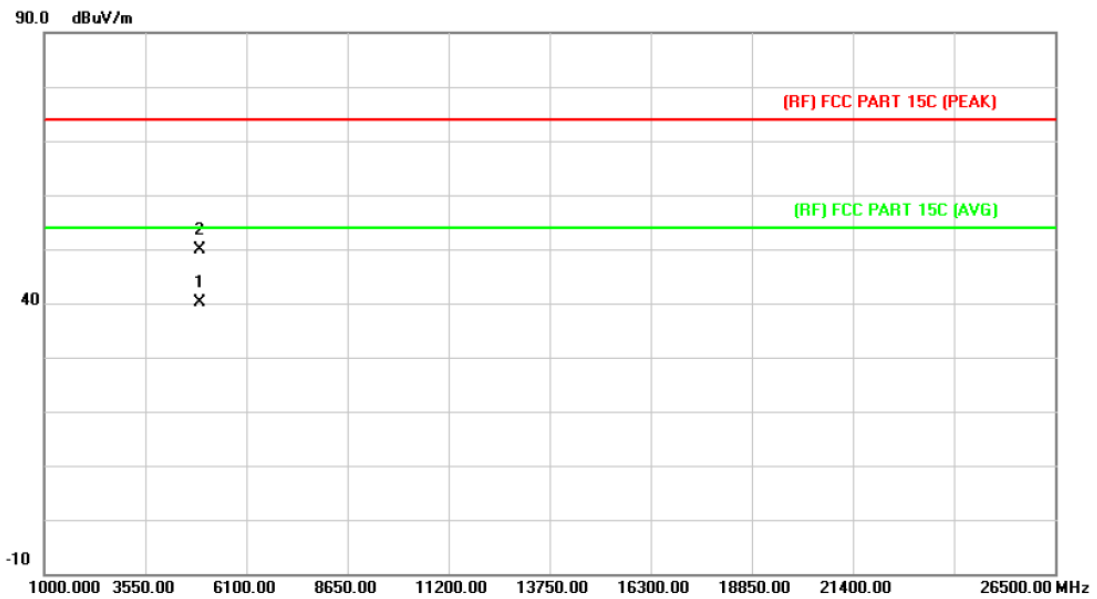
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4873.345	26.17	13.86	40.03	54.00	-13.97	AVG
2		4873.654	36.32	13.86	50.18	74.00	-23.82	peak

Emission Level= Read Level+ Correct Factor

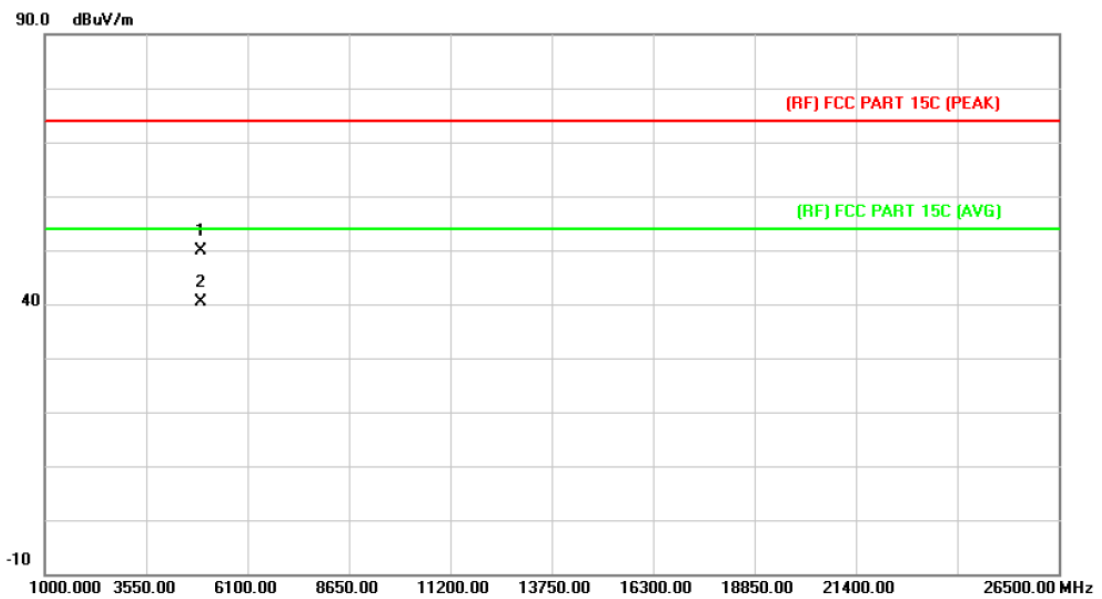
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4923.646	25.86	14.15	40.01	54.00	-13.99	AVG
2		4923.751	35.72	14.15	49.87	74.00	-24.13	peak

**Emission Level= Read Level+ Correct Factor**

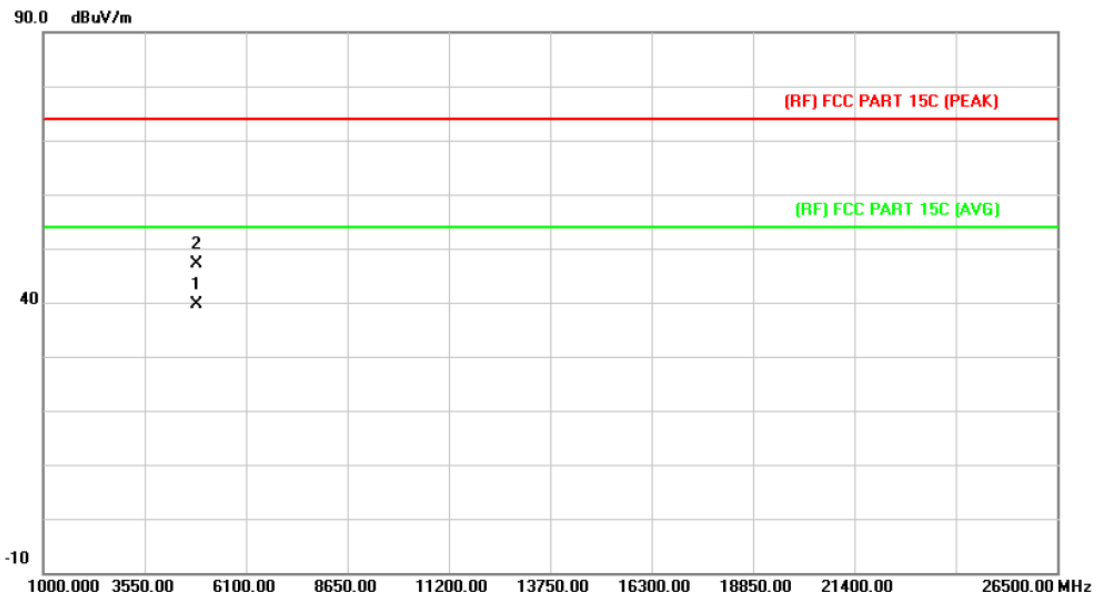
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2462MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4923.501	35.74	14.15	49.89	74.00	-24.11	peak
2	*	4923.603	26.22	14.15	40.37	54.00	-13.63	AVG

**Emission Level= Read Level+ Correct Factor**

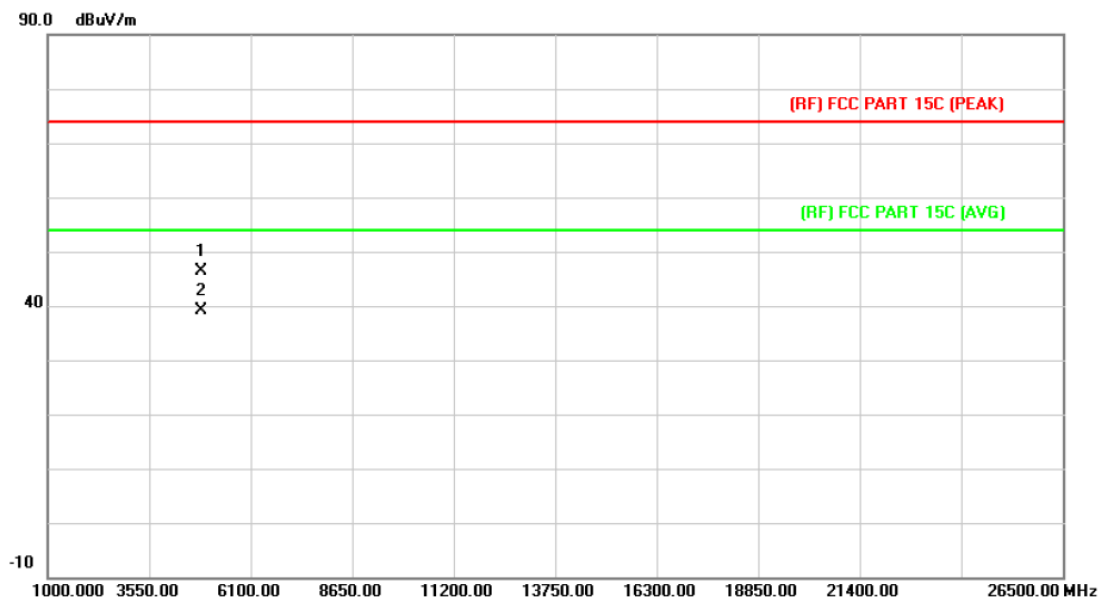
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2422MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4843.654	25.97	13.68	39.65	54.00	-14.35	AVG
2		4843.694	33.34	13.68	47.02	74.00	-26.98	peak

Emission Level= Read Level+ Correct Factor

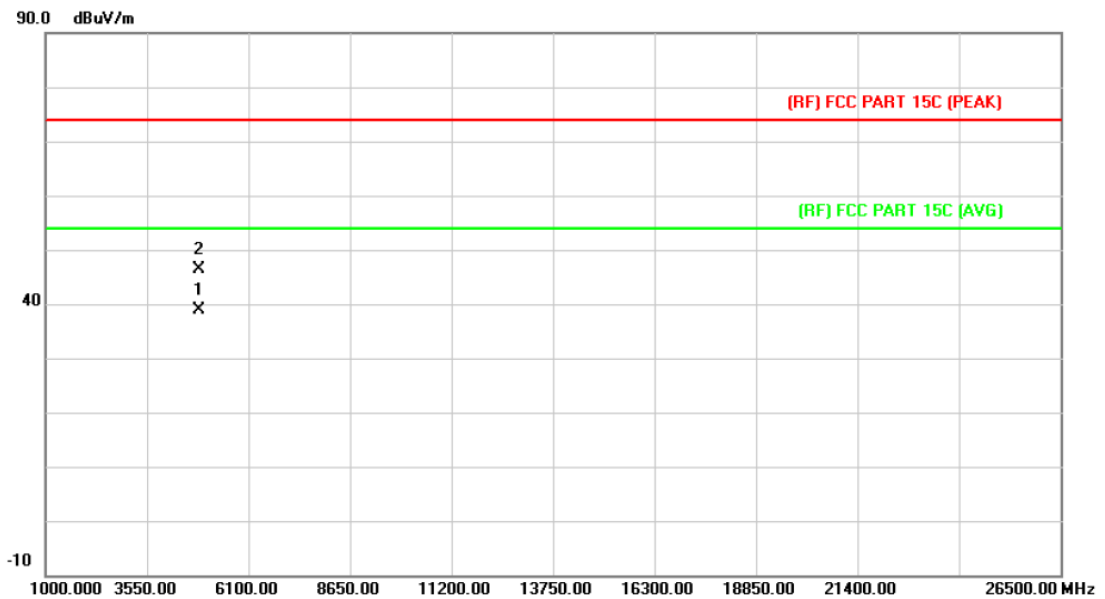
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2422MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4843.698	32.67	13.68	46.35	74.00	-27.65	peak
2	*	4844.354	25.34	13.68	39.02	54.00	-14.98	AVG

Emission Level= Read Level+ Correct Factor

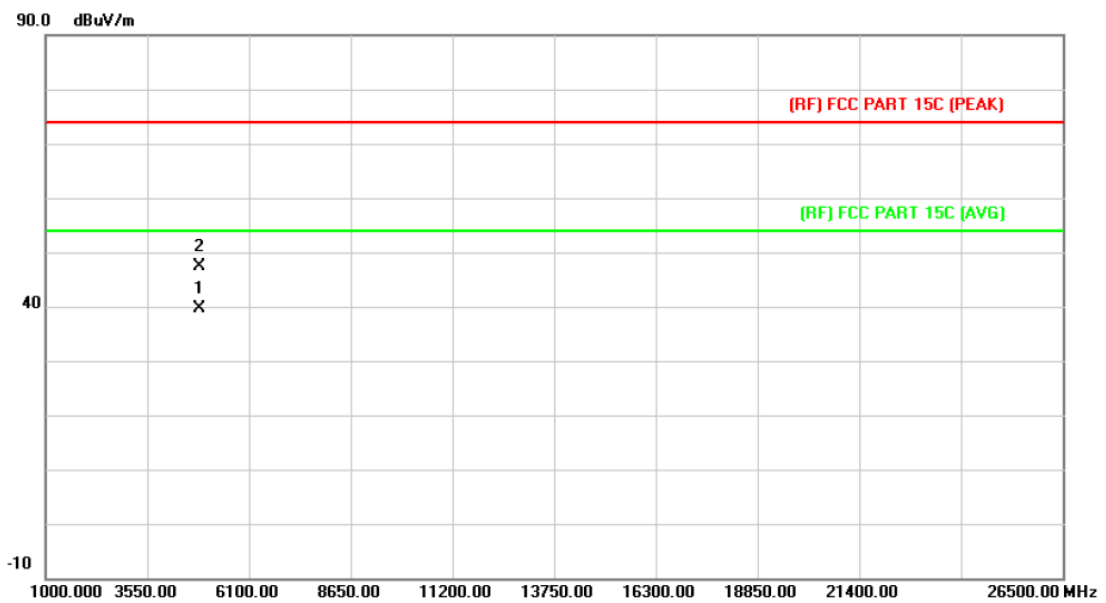
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4873.647	25.13	13.86	38.99	54.00	-15.01	AVG
2		4873.762	32.61	13.86	46.47	74.00	-27.53	peak

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2437MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		

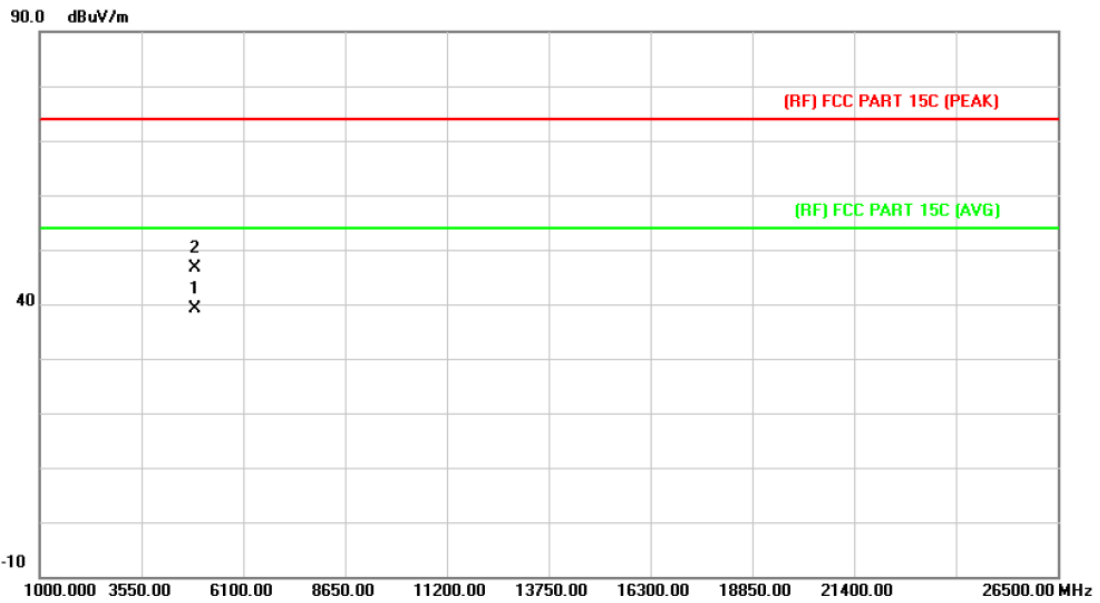


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4874.124	25.68	13.86	39.54	54.00	-14.46	AVG
2		4874.145	33.46	13.86	47.32	74.00	-26.68	peak

**Emission Level= Read Level+ Correct Factor**



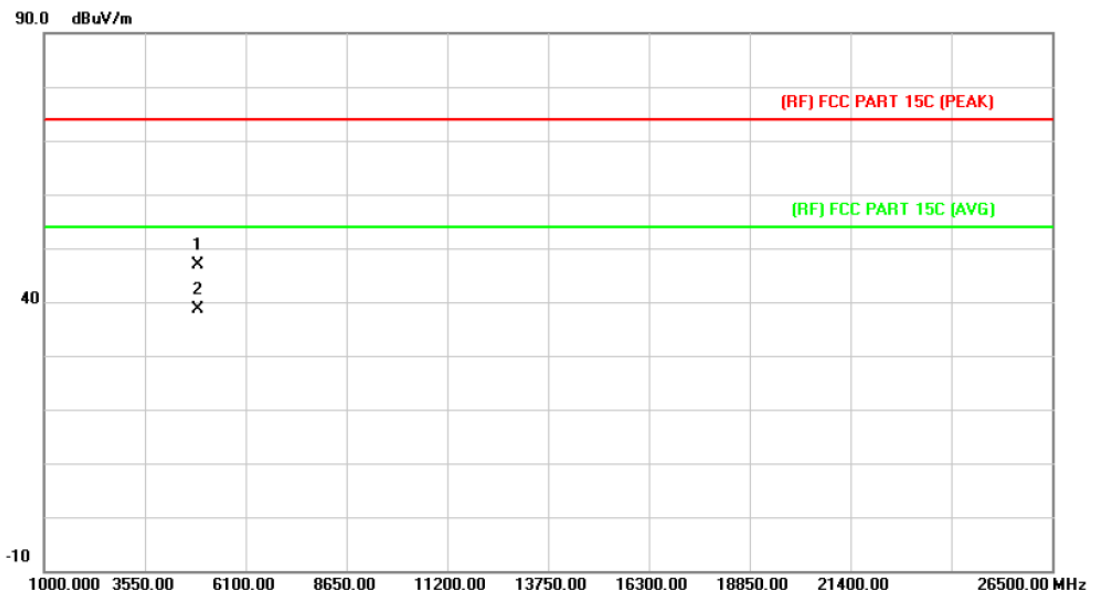
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2452MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4903.124	25.01	14.03	39.04	54.00	-14.96	AVG
2		4903.742	32.68	14.03	46.71	74.00	-27.29	peak

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2452MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4903.614	32.84	14.03	46.87	74.00	-27.13	peak
2	*	4903.644	24.53	14.03	38.56	54.00	-15.44	AVG

Emission Level= Read Level+ Correct Factor

## 5. Restricted Bands Requirement

### 5.1 Test Standard and Limit

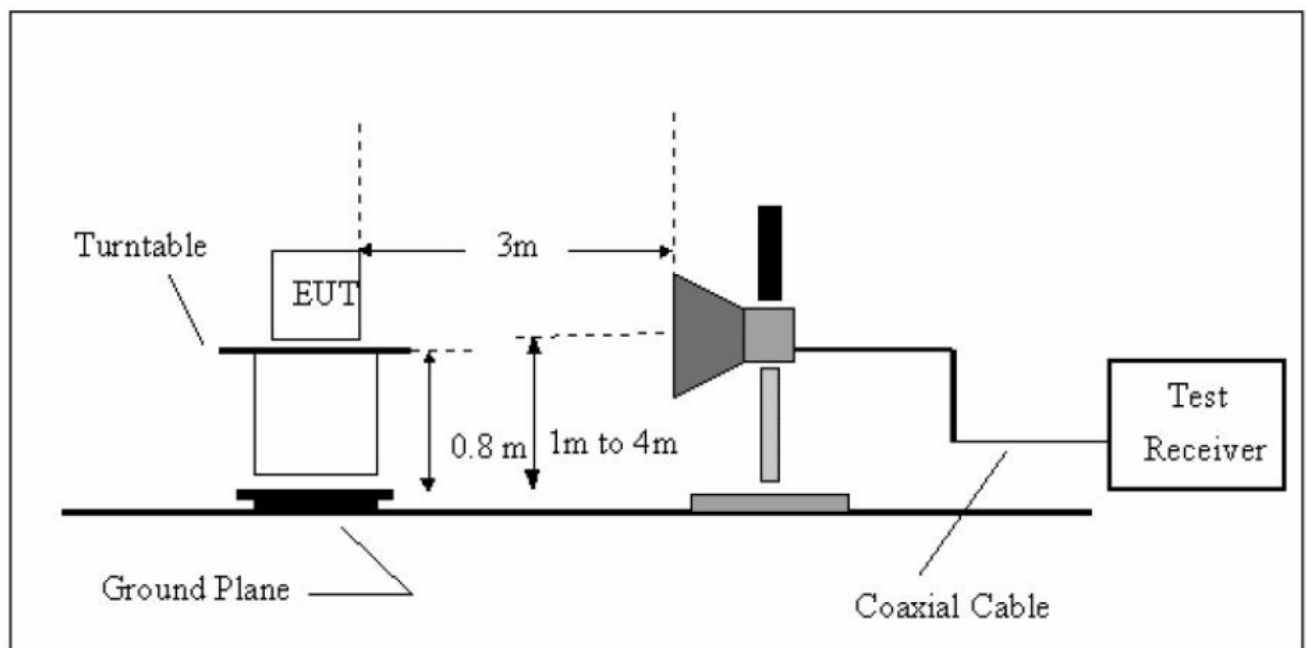
#### 5.1.1 Test Standard

FCC Part 15.209 FCC Part 15.205

#### 5.1.2 Test Limit

Restricted Frequency Band (MHz)	Class B (dBuV/m)(at 3 M)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

### 5.2 Test Setup



### 5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (4) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit

Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.

- (5) (5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (6) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (7) For the actual test configuration, please see the test setup photo.

## 5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

## 5.5 Test Equipment

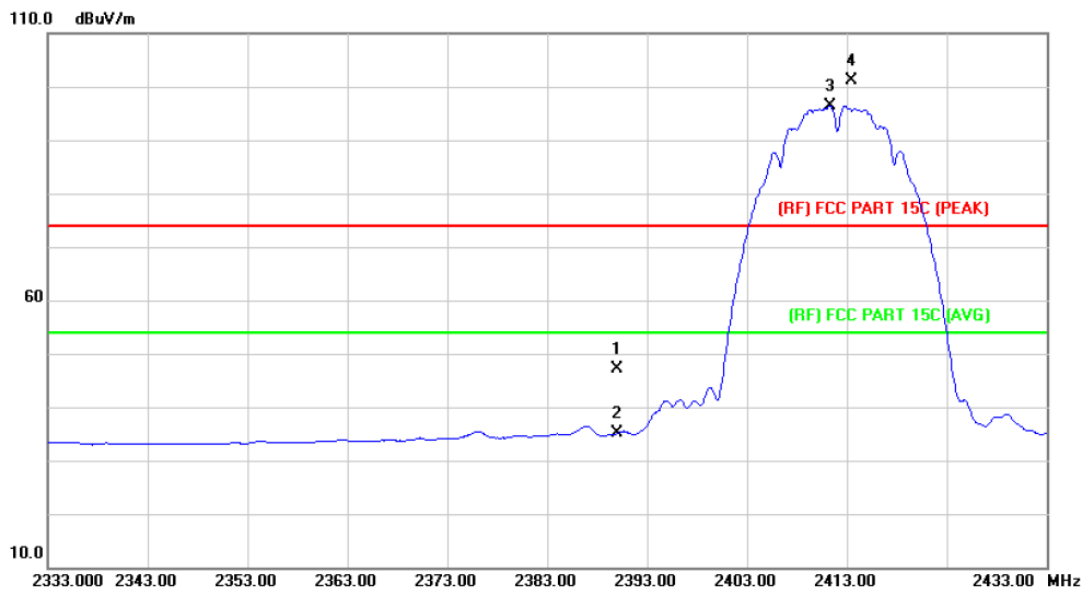
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Mar. 20, 2014	Mar. 19, 2015
Spectrum Analyzer	Rohde & Schwarz	FSP30	DE25181	Aug. 08, 2014	Aug. 07, 2015
EMI Test Receiver	Rohde & Schwarz	ESCI	101165	Aug. 08, 2014	Aug. 07, 2015
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 07, 2014	Mar.06, 2015
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 07, 2014	Mar.06, 2015
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 07, 2014	Mar.06, 2015
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 07, 2014	Mar.06, 2015
Pre-amplifier	HP	11909A	185903	Mar. 07, 2014	Mar.06, 2015
Pre-amplifier	HP	8447B	3008A00849	Mar. 07, 2014	Mar.06, 2015
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 07, 2014	Mar.06, 2015
Signal Generator	Rohde & Schwarz	SML03	IKW682-054	Feb. 11, 2014	Feb.10, 2015
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A

## 5.6 Test Data

Please see the next page.

**(1) Radiation Test**

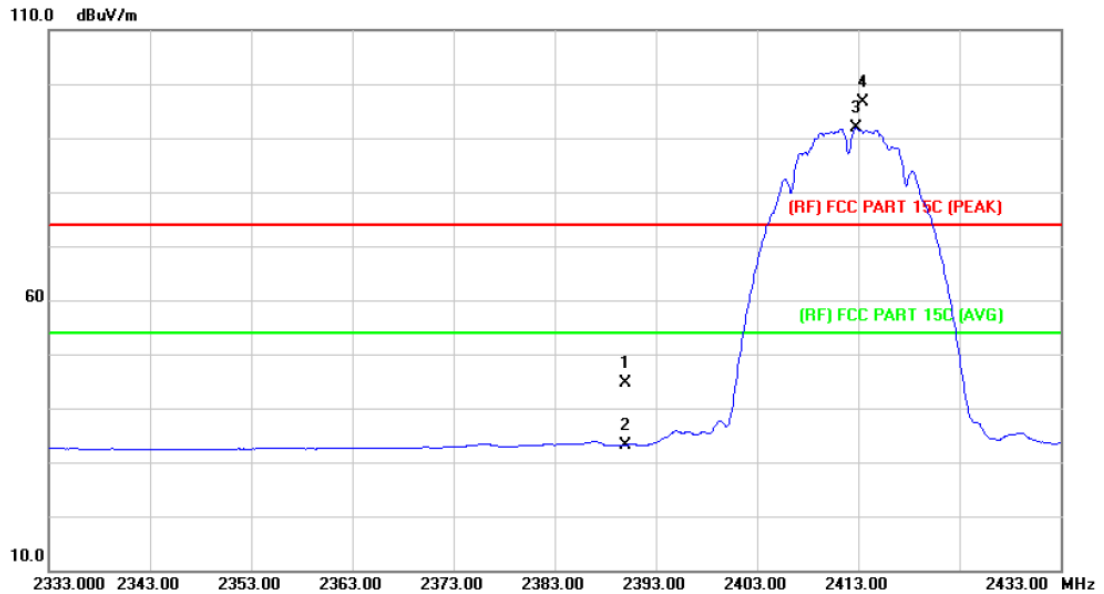
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	46.47	0.77	47.24	74.00	-26.76	peak
2		2390.000	34.31	0.77	35.08	54.00	-18.92	AVG
3	*	2411.300	95.49	0.86	96.35	54.00	42.35	AVG
4	X	2413.500	100.21	0.86	101.07	74.00	27.07	peak

**Emission Level= Read Level+ Correct Factor**

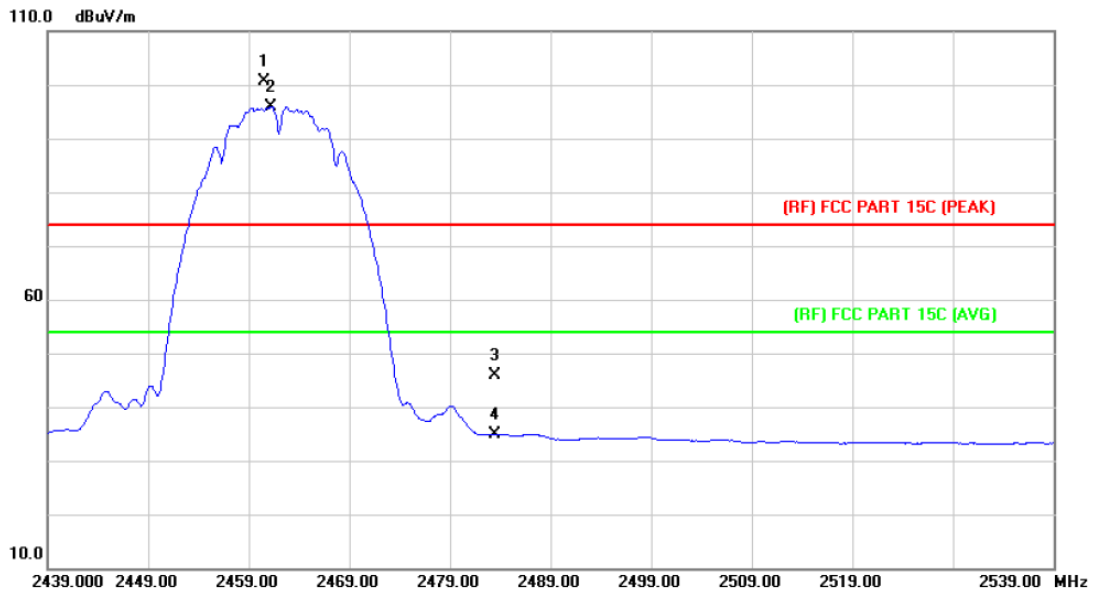
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2412MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		2390.000	43.76	0.77	44.53	74.00	-29.47	peak
2		2390.000	32.43	0.77	33.20	54.00	-20.80	AVG
3	*	2412.800	90.95	0.86	91.81	54.00	37.81	AVG
4	X	2413.500	95.74	0.86	96.60	74.00	22.60	peak

Emission Level= Read Level+ Correct Factor

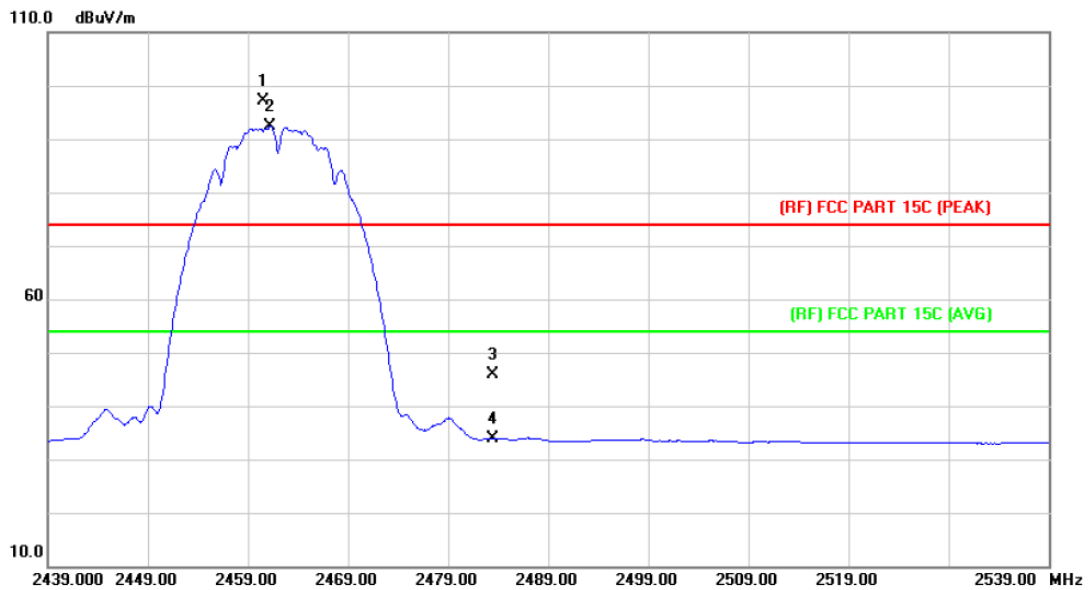
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX B Mode 2462MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	X	2460.500	99.62	1.06	100.68	74.00	26.68	peak
2	*	2461.200	94.90	1.07	95.97	54.00	41.97	AVG
3		2483.500	44.68	1.17	45.85	74.00	-28.15	peak
4		2483.500	33.71	1.17	34.88	54.00	-19.12	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX B Mode 2462MHz		
<b>Remark:</b>	N/A		

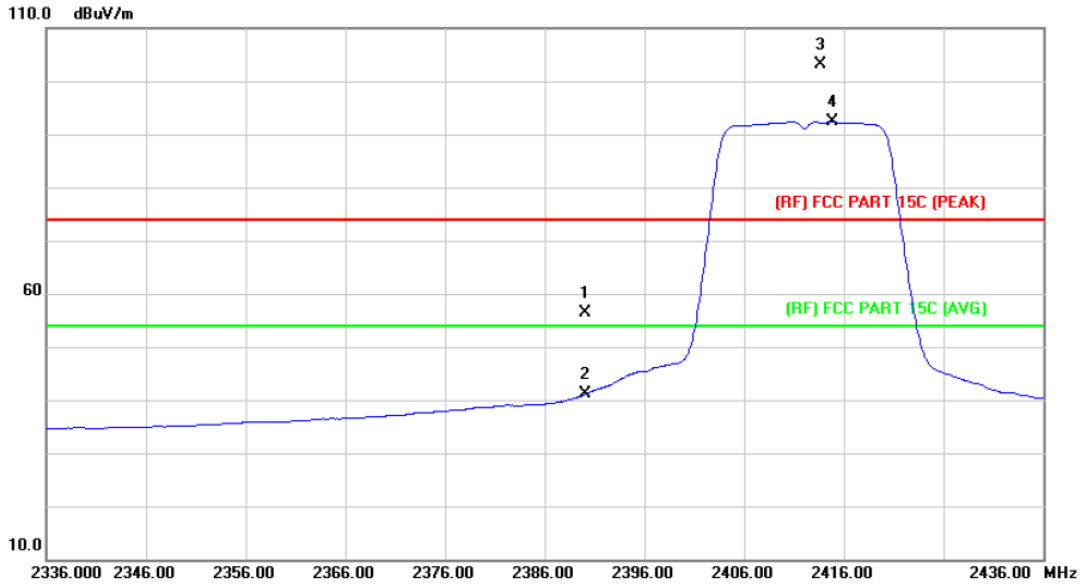


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2460.600	96.01	1.06	97.07	74.00	23.07	peak
2	*	2461.200	91.32	1.07	92.39	54.00	38.39	AVG
3		2483.500	44.60	1.17	45.77	74.00	-28.23	peak
4		2483.500	32.63	1.17	33.80	54.00	-20.20	AVG

**Emission Level= Read Level+ Correct Factor**



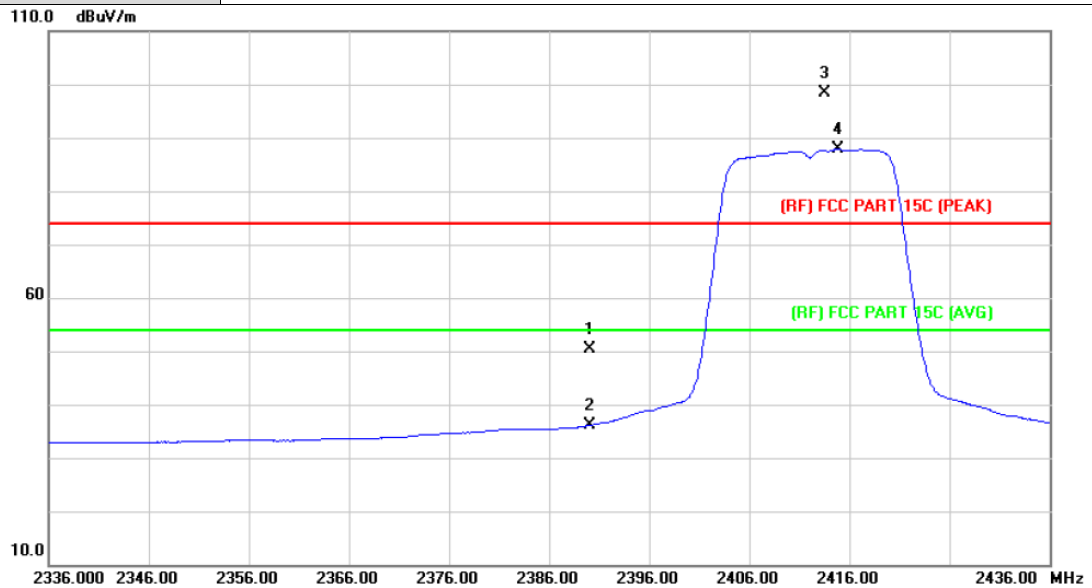
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2412MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	55.61	0.77	56.38	74.00	-17.62	peak
2		2390.000	40.29	0.77	41.06	54.00	-12.94	AVG
3	X	2413.700	102.20	0.86	103.06	74.00	29.06	peak
4	*	2414.900	91.55	0.88	92.43	54.00	38.43	AVG

Emission Level= Read Level+ Correct Factor

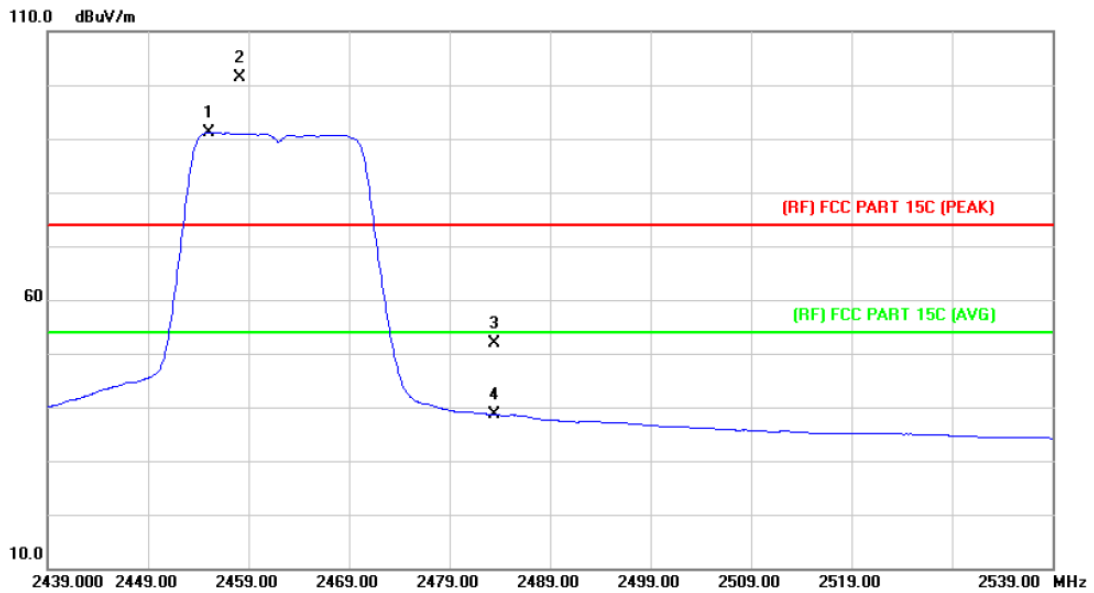
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2412MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	49.66	0.77	50.43	74.00	-23.57	peak
2		2390.000	35.33	0.77	36.10	54.00	-17.90	AVG
3	X	2413.500	97.58	0.86	98.44	74.00	24.44	peak
4	*	2414.900	86.98	0.88	87.86	54.00	33.86	AVG

**Emission Level= Read Level+ Correct Factor**

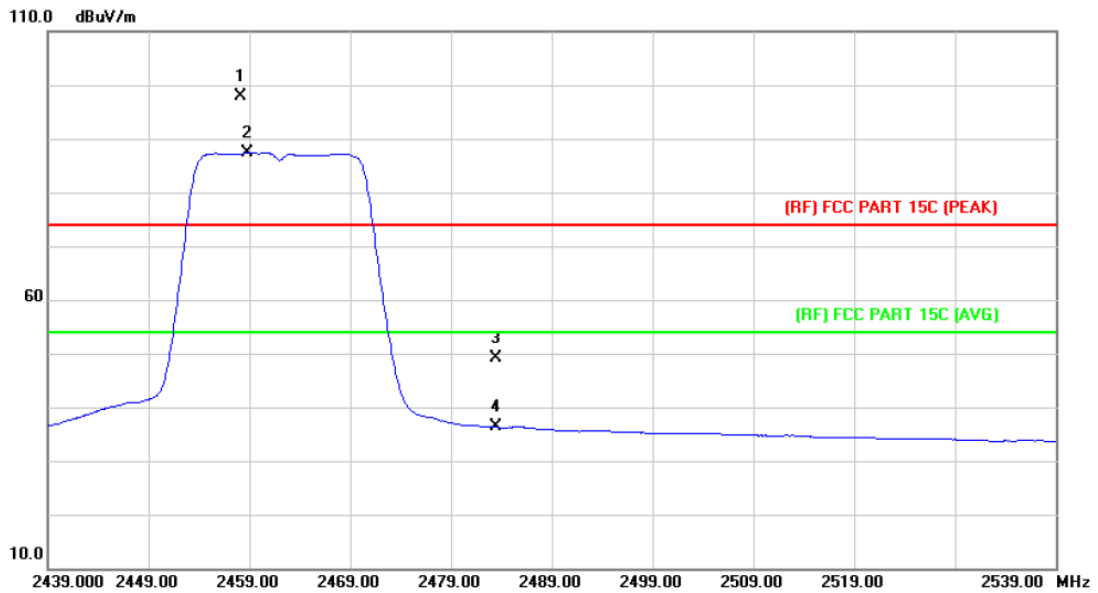
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX G Mode 2462MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2455.100	90.18	1.05	91.23	54.00	37.23	AVG
2	X	2458.200	100.40	1.06	101.46	74.00	27.46	peak
3		2483.500	50.64	1.17	51.81	74.00	-22.19	peak
4		2483.500	37.48	1.17	38.65	54.00	-15.35	AVG

Emission Level= Read Level+ Correct Factor

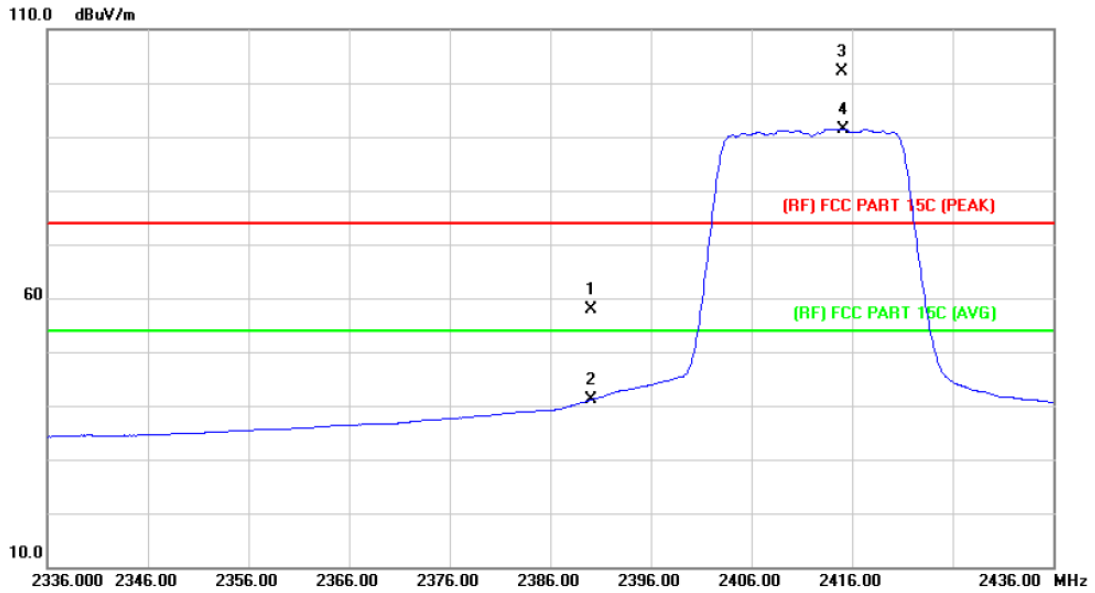
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX G Mode 2462MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2458.100	96.81	1.06	97.87	74.00	23.87	peak
2	*	2458.800	86.34	1.06	87.40	54.00	33.40	AVG
3		2483.500	47.87	1.17	49.04	74.00	-24.96	peak
4		2483.500	35.12	1.17	36.29	54.00	-17.71	AVG

Emission Level= Read Level+ Correct Factor

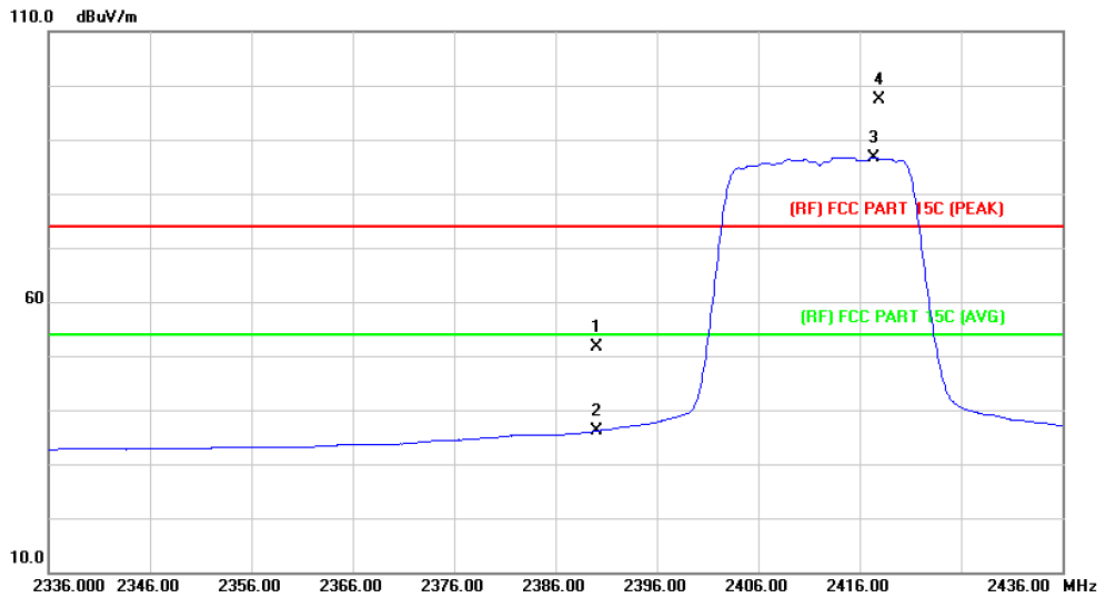
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2412MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	57.08	0.77	57.85	74.00	-16.15	peak
2		2390.000	40.37	0.77	41.14	54.00	-12.86	AVG
3	X	2415.000	101.33	0.88	102.21	74.00	28.21	peak
4	*	2415.200	90.57	0.88	91.45	54.00	37.45	AVG

Emission Level= Read Level+ Correct Factor

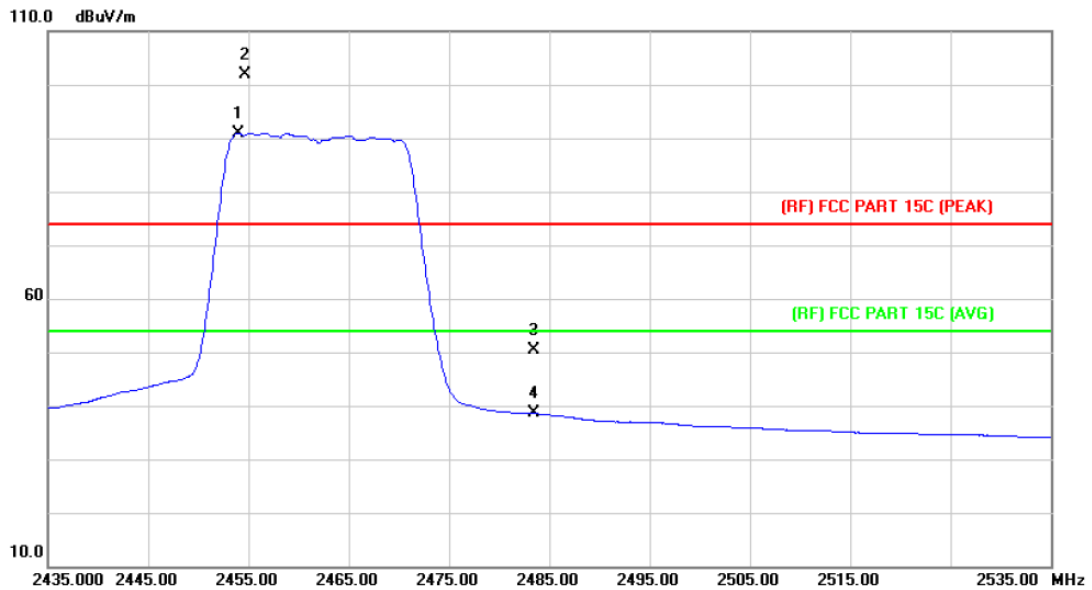
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2412MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		2390.000	50.89	0.77	51.66	74.00	-22.34	peak
2		2390.000	35.38	0.77	36.15	54.00	-17.85	AVG
3	*	2417.400	85.85	0.89	86.74	54.00	32.74	AVG
4	X	2417.900	96.59	0.89	97.48	74.00	23.48	peak

Emission Level= Read Level+ Correct Factor

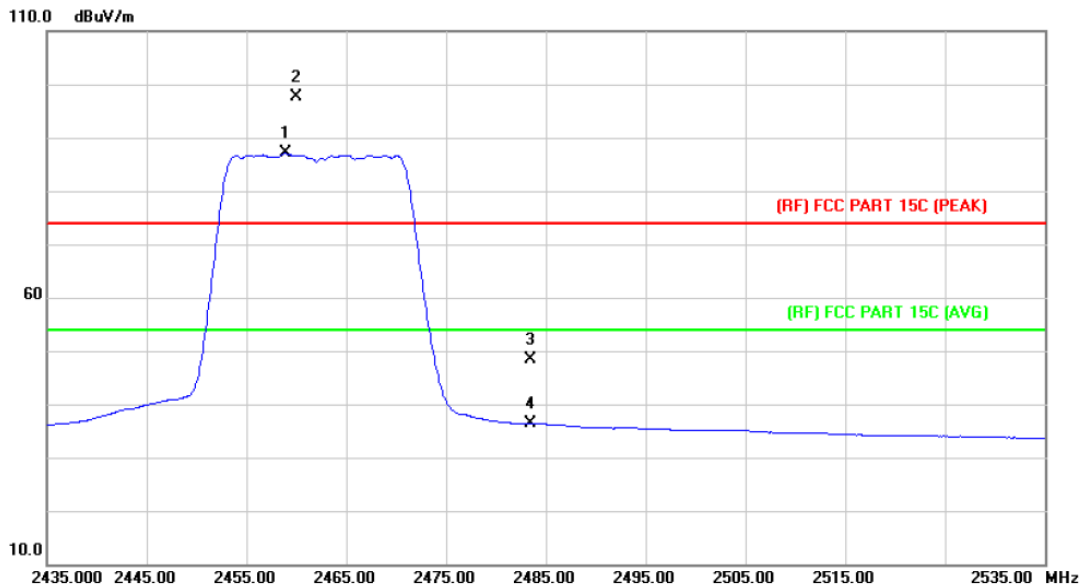
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT20) Mode 2462MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2454.000	89.89	1.04	90.93	54.00	36.93	AVG
2	X	2454.700	100.78	1.05	101.83	74.00	27.83	peak
3		2483.500	49.20	1.17	50.37	74.00	-23.63	peak
4		2483.500	37.35	1.17	38.52	54.00	-15.48	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT20) Mode 2462MHz		
<b>Remark:</b>	N/A		

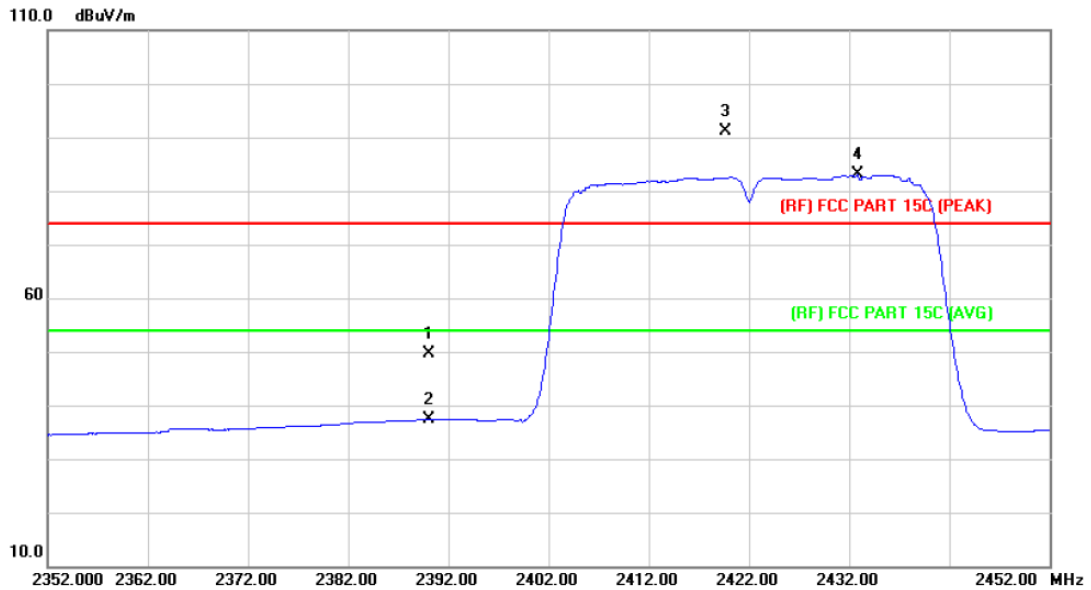


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	2458.900	85.97	1.06	87.03	54.00	33.03	AVG
2	X	2460.000	96.65	1.06	97.71	74.00	23.71	peak
3		2483.500	47.29	1.17	48.46	74.00	-25.54	peak
4		2483.500	35.20	1.17	36.37	54.00	-17.63	AVG

Emission Level= Read Level+ Correct Factor



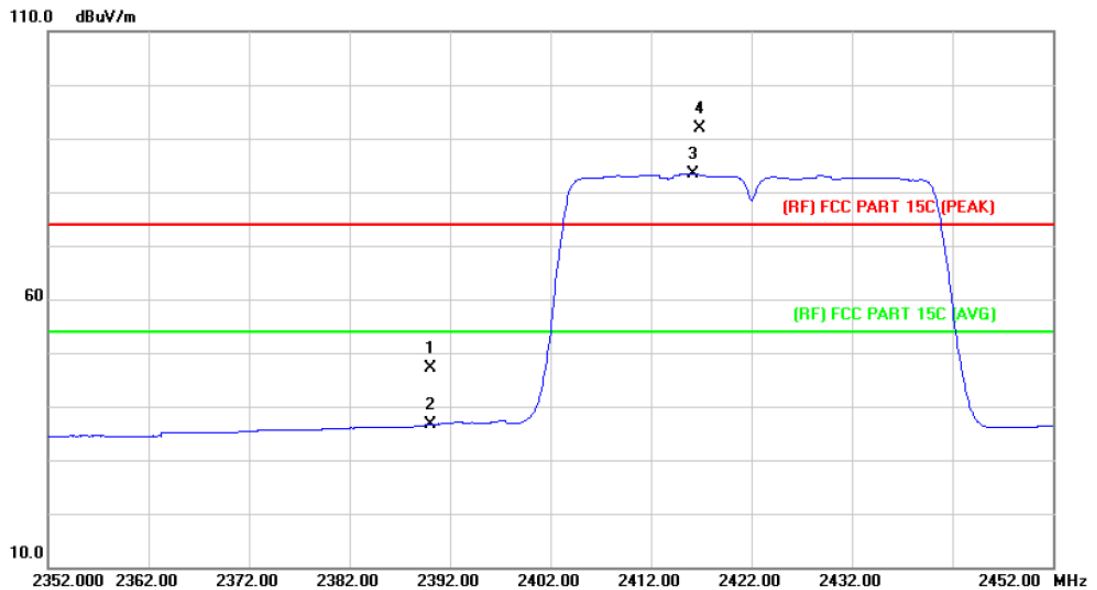
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2422MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	48.77	0.77	49.54	74.00	-24.46	peak
2		2390.000	36.58	0.77	37.35	74.00	-36.65	peak
3	*	2419.682	90.35	0.89	91.24	74.00	17.24	peak
4	X	2432.900	82.28	0.95	83.23	74.00	9.23	peak

Emission Level= Read Level+ Correct Factor

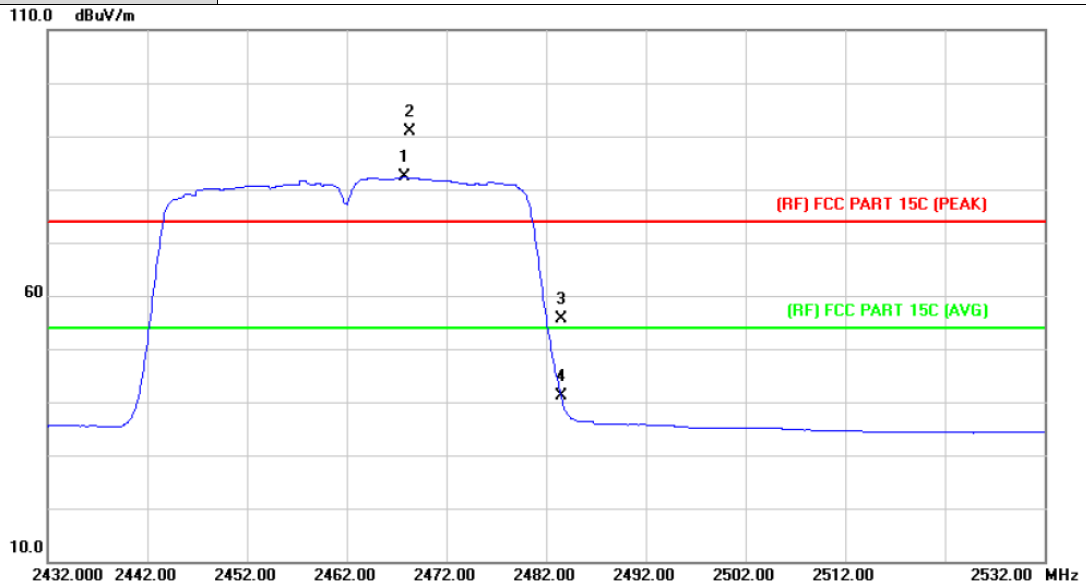
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2422MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	46.37	0.77	47.14	74.00	-26.86	peak
2		2390.000	35.86	0.77	36.63	54.00	-17.37	AVG
3	*	2416.200	82.50	0.88	83.38	54.00	29.38	AVG
4	X	2416.900	91.09	0.88	91.97	74.00	17.97	peak

Emission Level= Read Level+ Correct Factor

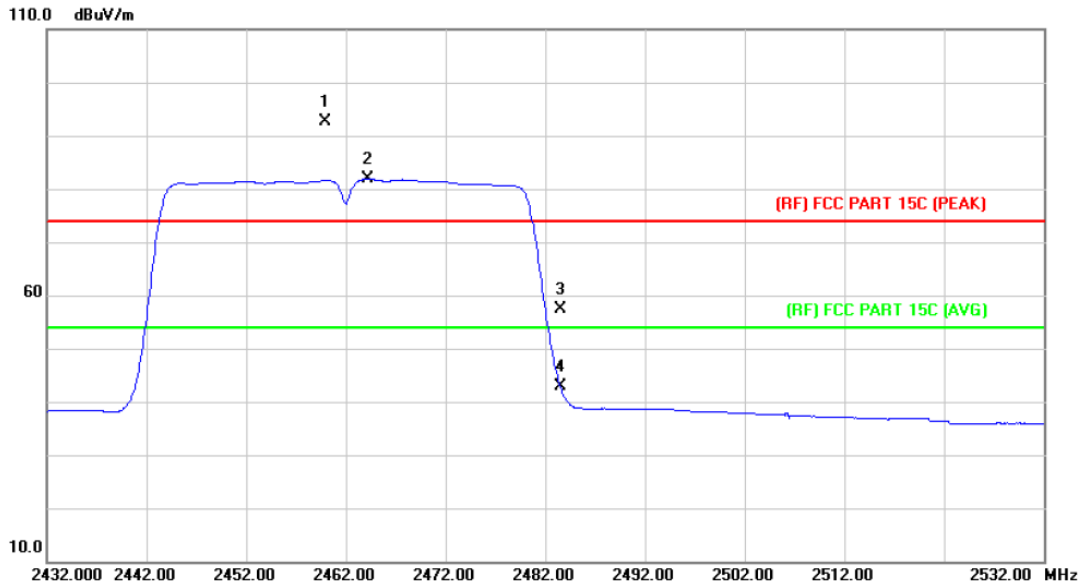
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Horizontal		
<b>Test Mode:</b>	TX N(HT40) Mode 2452MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2467.800	81.16	1.10	82.26	54.00	28.26	AVG
2	X	2468.370	89.88	1.11	90.99	74.00	16.99	peak
3		2483.500	54.58	1.17	55.75	74.00	-18.25	peak
4		2483.500	39.97	1.17	41.14	54.00	-12.86	AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	TX N(HT40) Mode 2452MHz		
<b>Remark:</b>	N/A		

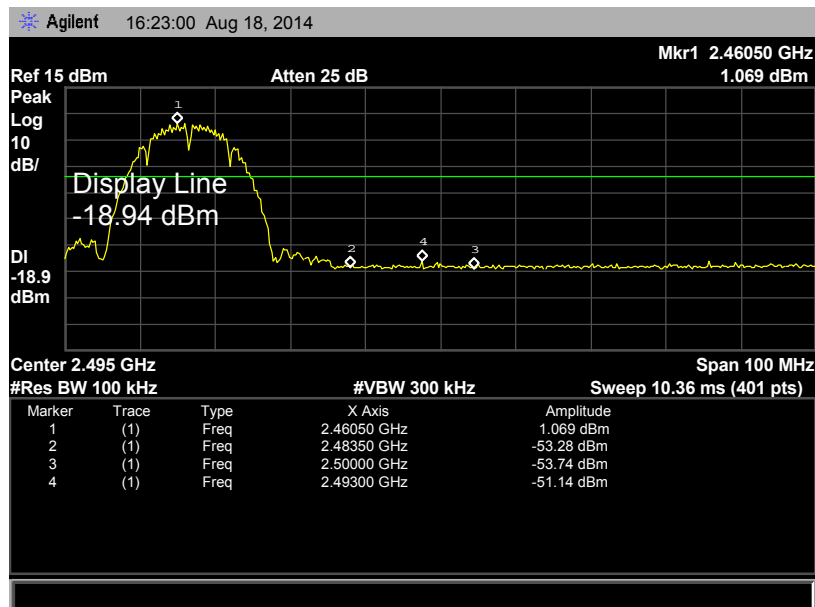
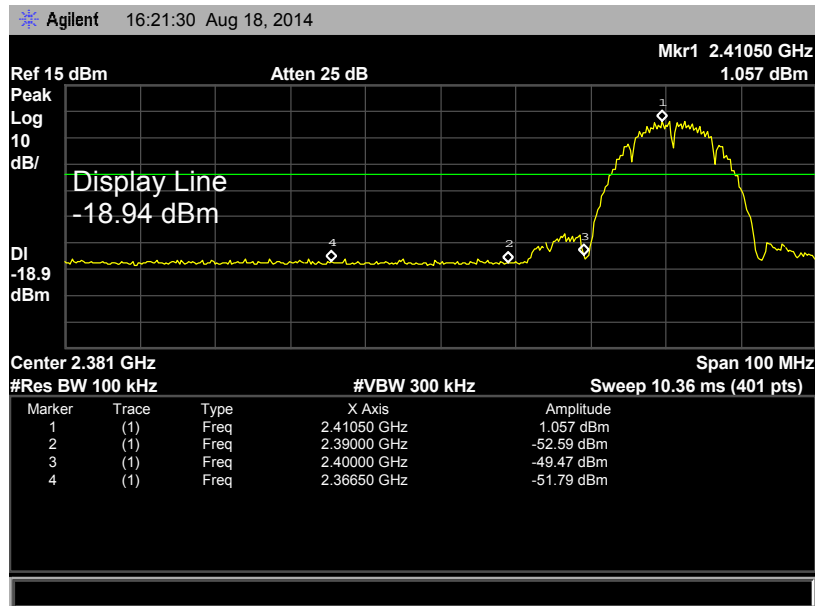


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2459.940	91.58	1.06	92.64	74.00	18.64	peak
2	*	2464.200	80.71	1.08	81.79	54.00	27.79	AVG
3		2483.500	56.09	1.17	57.26	74.00	-16.74	peak
4		2483.500	41.64	1.17	42.81	54.00	-11.19	AVG

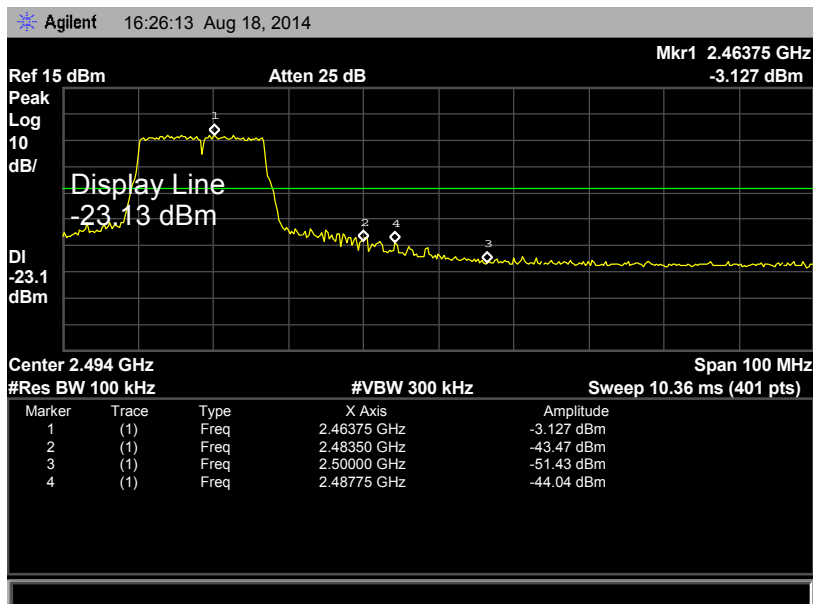
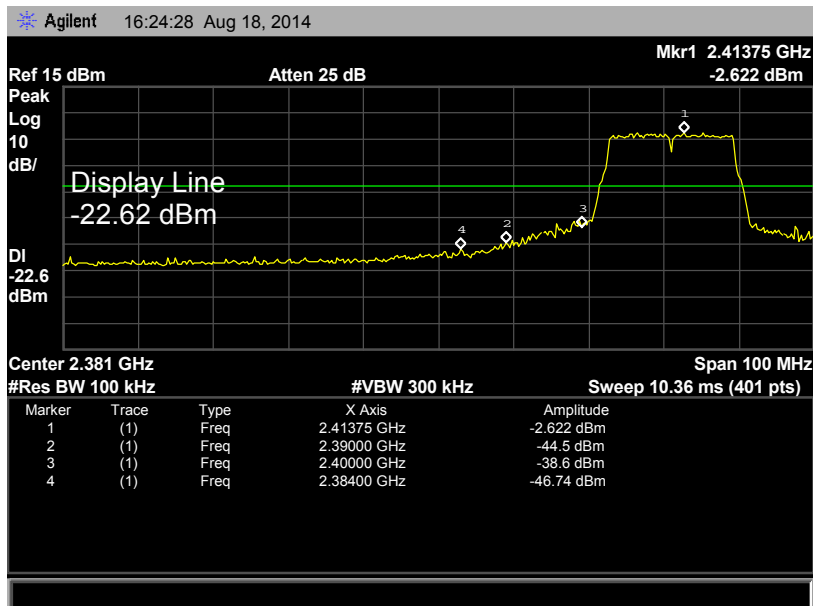
Emission Level= Read Level+ Correct Factor

(2) Conducted Test

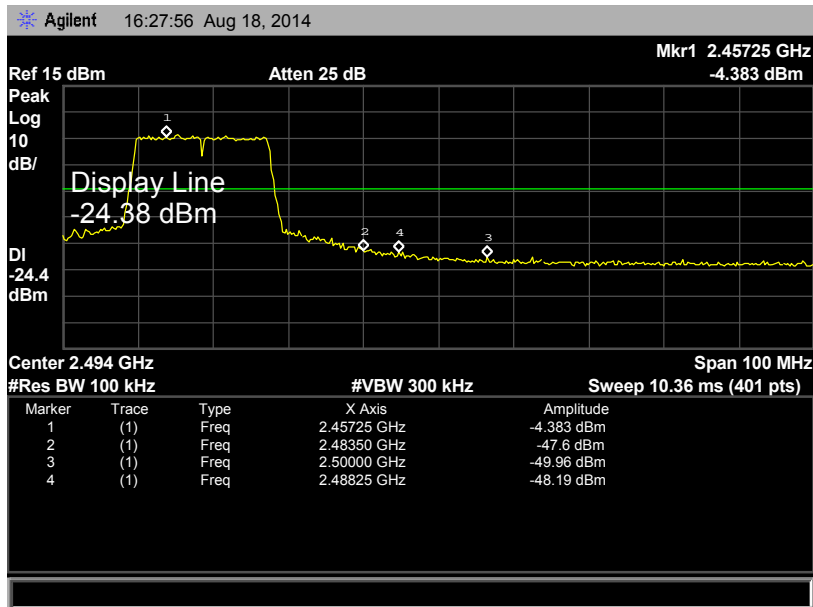
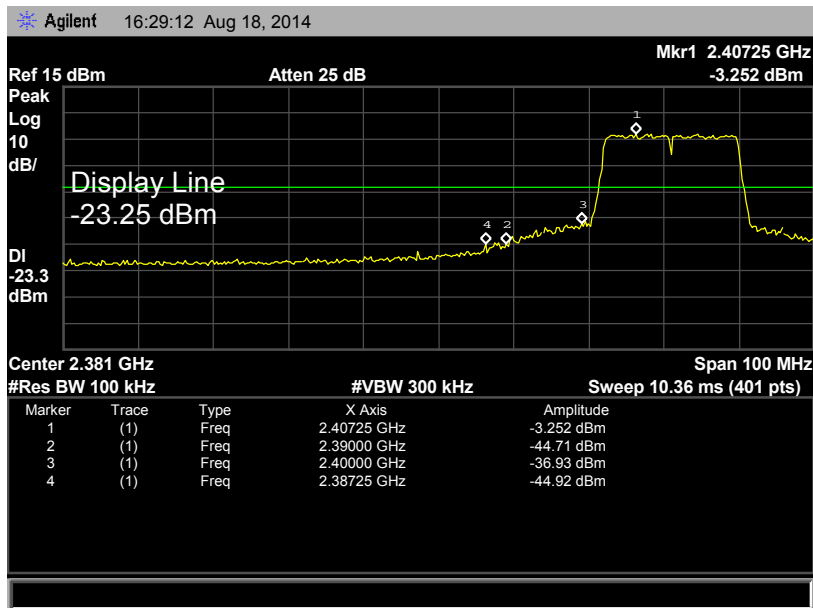
EUT:	MID	Model:	MID1008-L
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



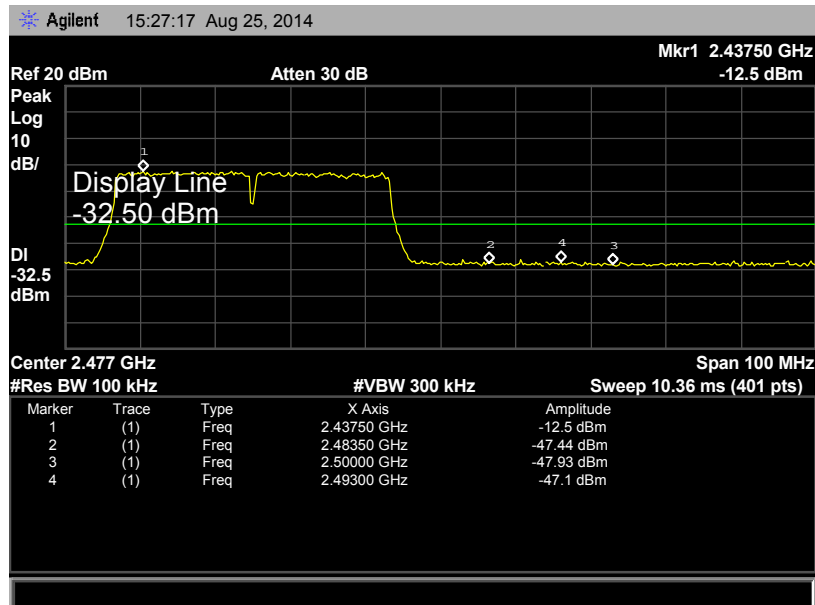
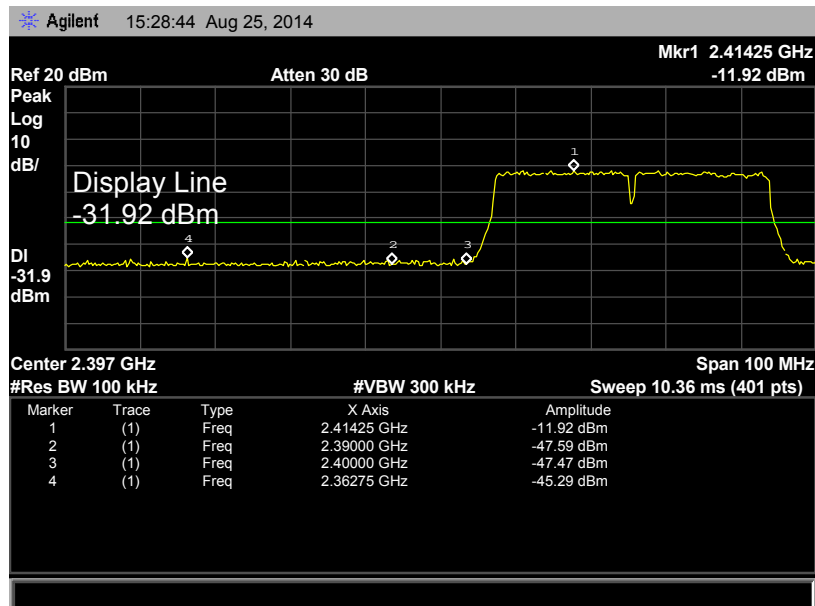
<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Test Mode:</b>	TX G Mode 2412MHz / TX G Mode 2462MHz		
<b>Remark:</b>	The EUT is programed in continuously transmitting mode		



<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Test Mode:</b>	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz		
<b>Remark:</b>	The EUT is programed in continuously transmitting mode		



<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Test Mode:</b>	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz		
<b>Remark:</b>	The EUT is programed in continuously transmitting mode		





## 6. Bandwidth Test

### 6.1 Test Standard and Limit

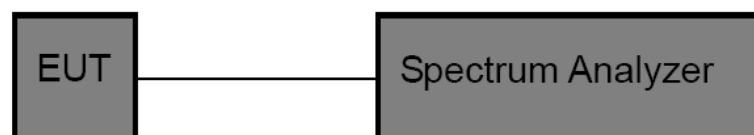
#### 6.1.1 Test Standard

FCC Part 15.247 (a)(2)

#### 6.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210		
Test Item	Limit	Frequency Range(MHz)
Bandwidth	$\geq 500$ KHz (6dB bandwidth)	2400~2483.5

### 6.2 Test Setup



### 6.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (3) Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

### 6.4 EUT Operating Condition

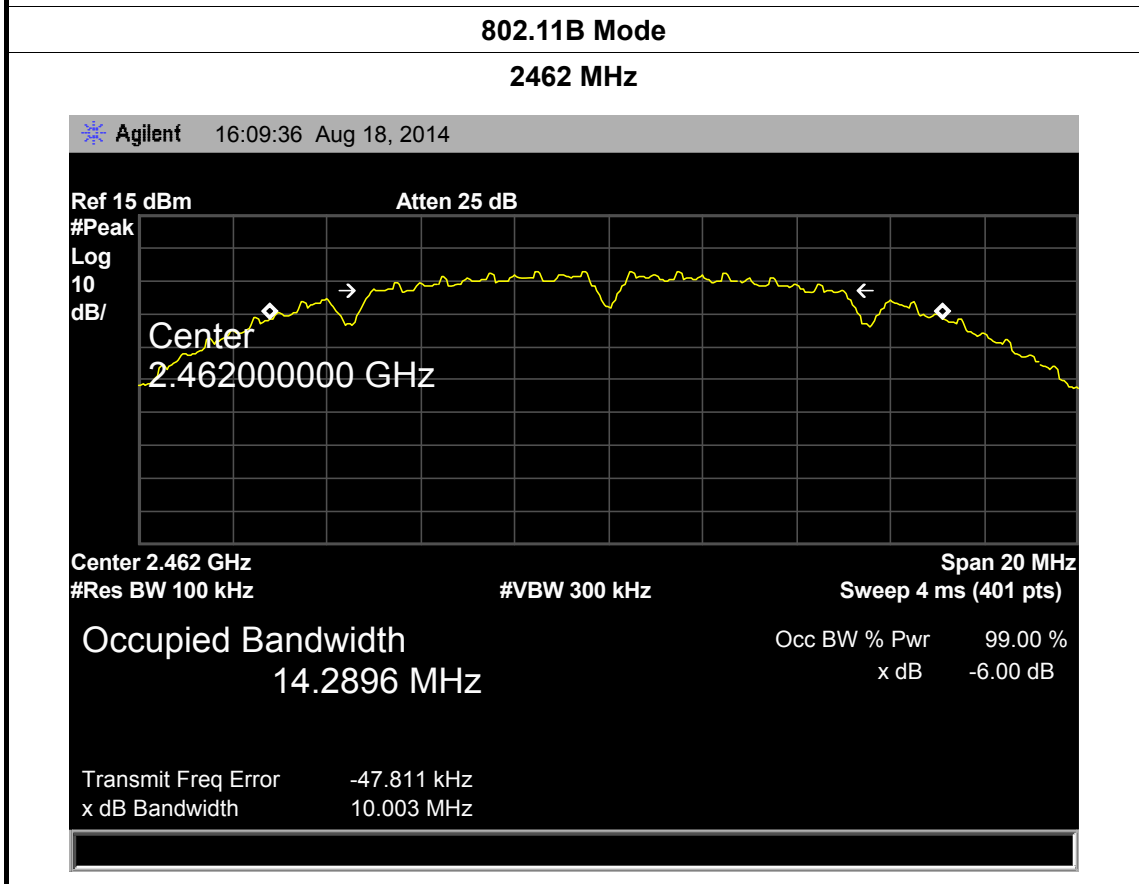
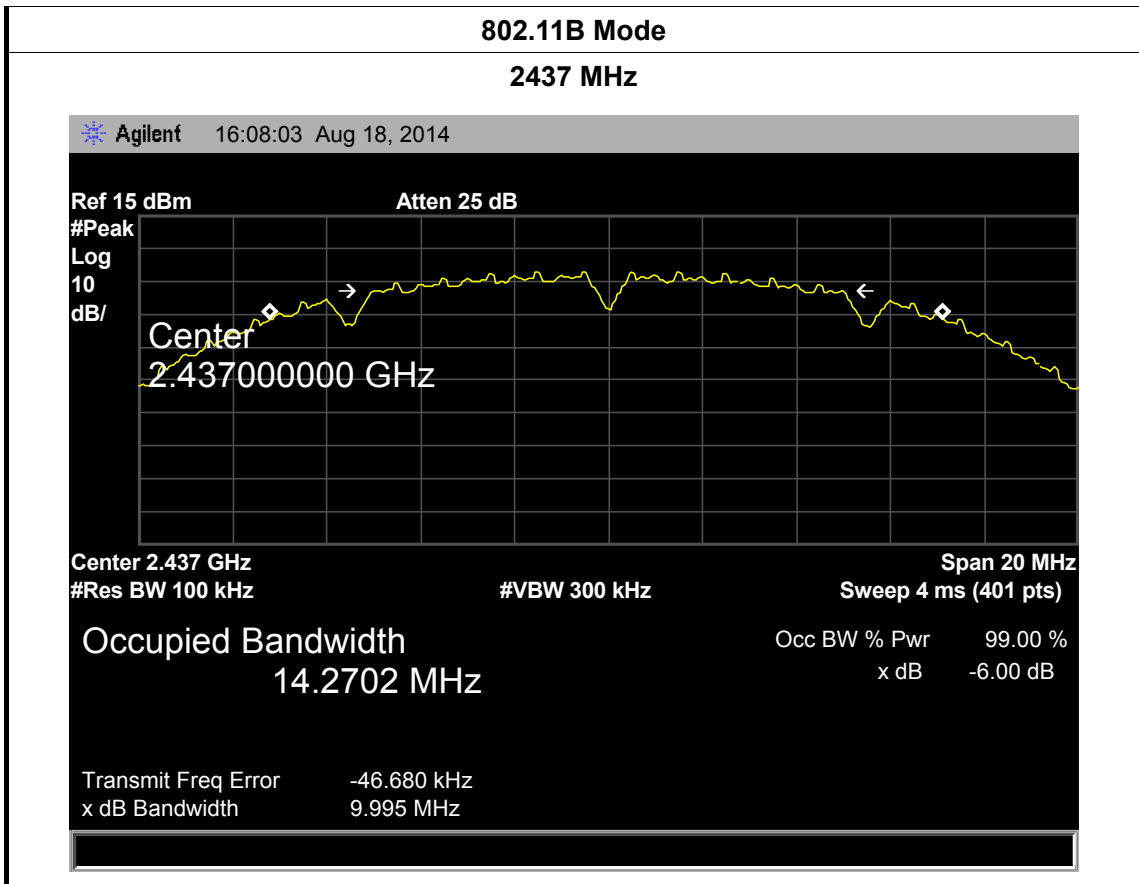
The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.

### 6.5 Test Equipment

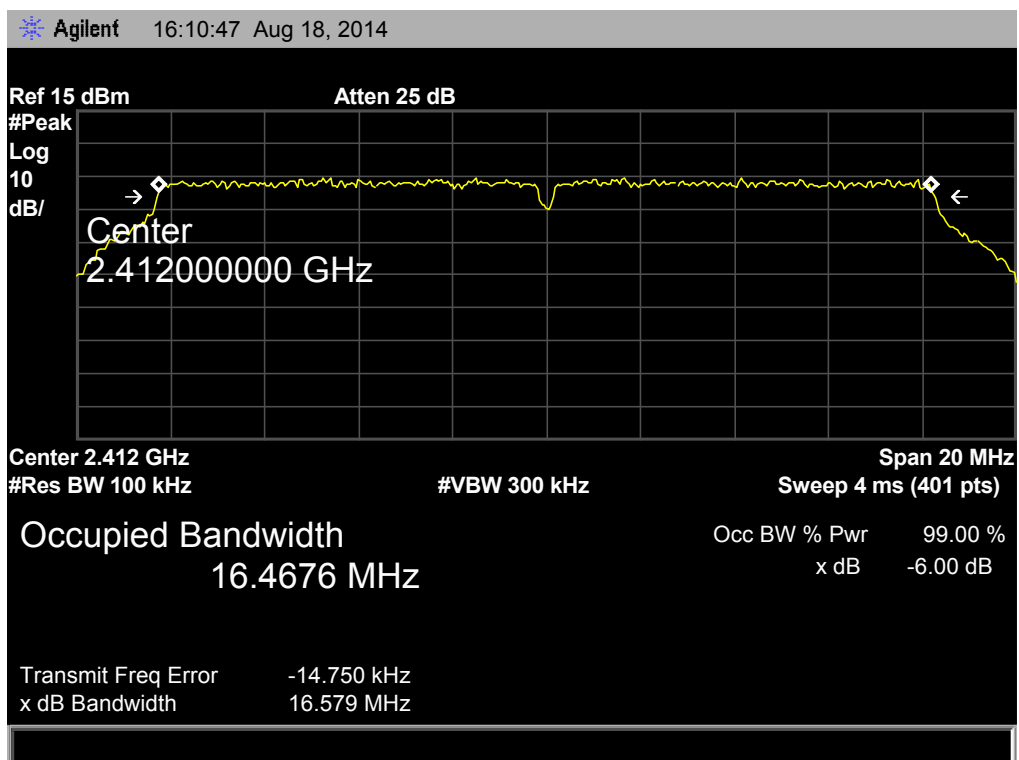
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Mar. 20, 2014	Mar. 19, 2015

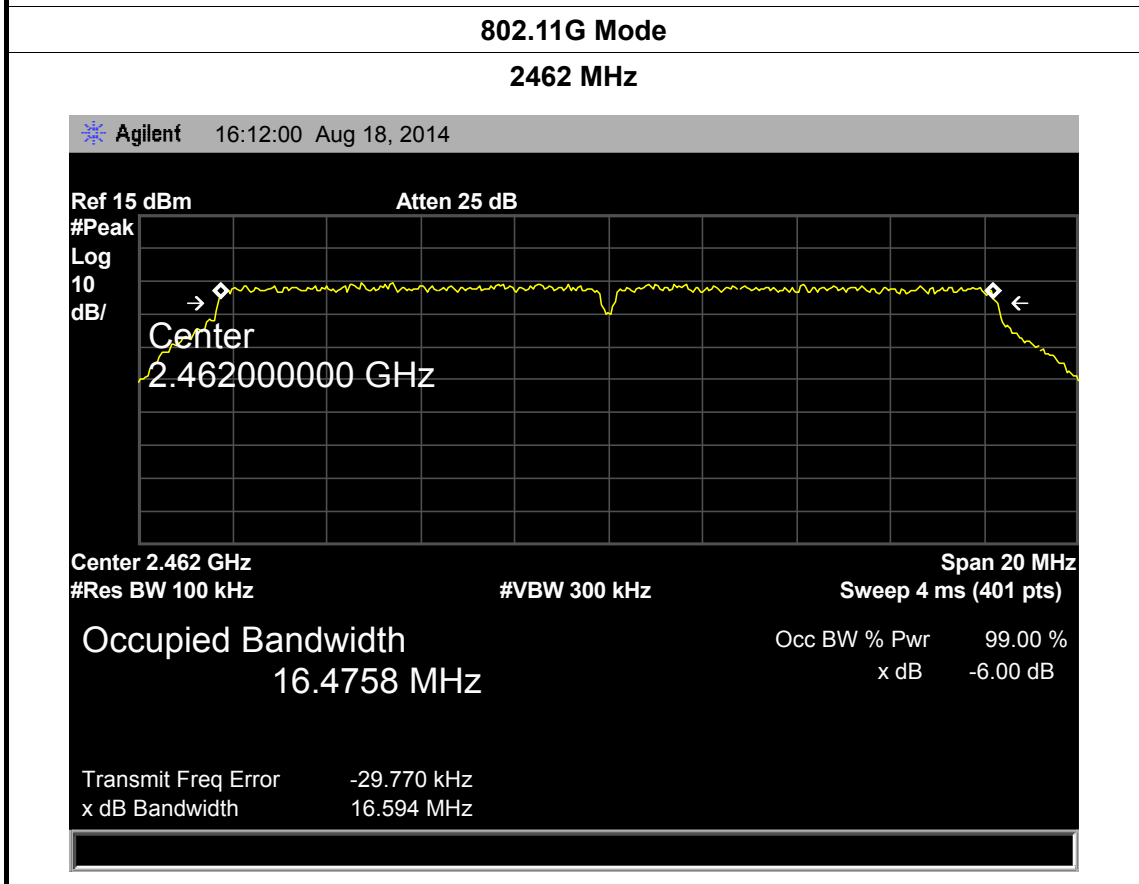
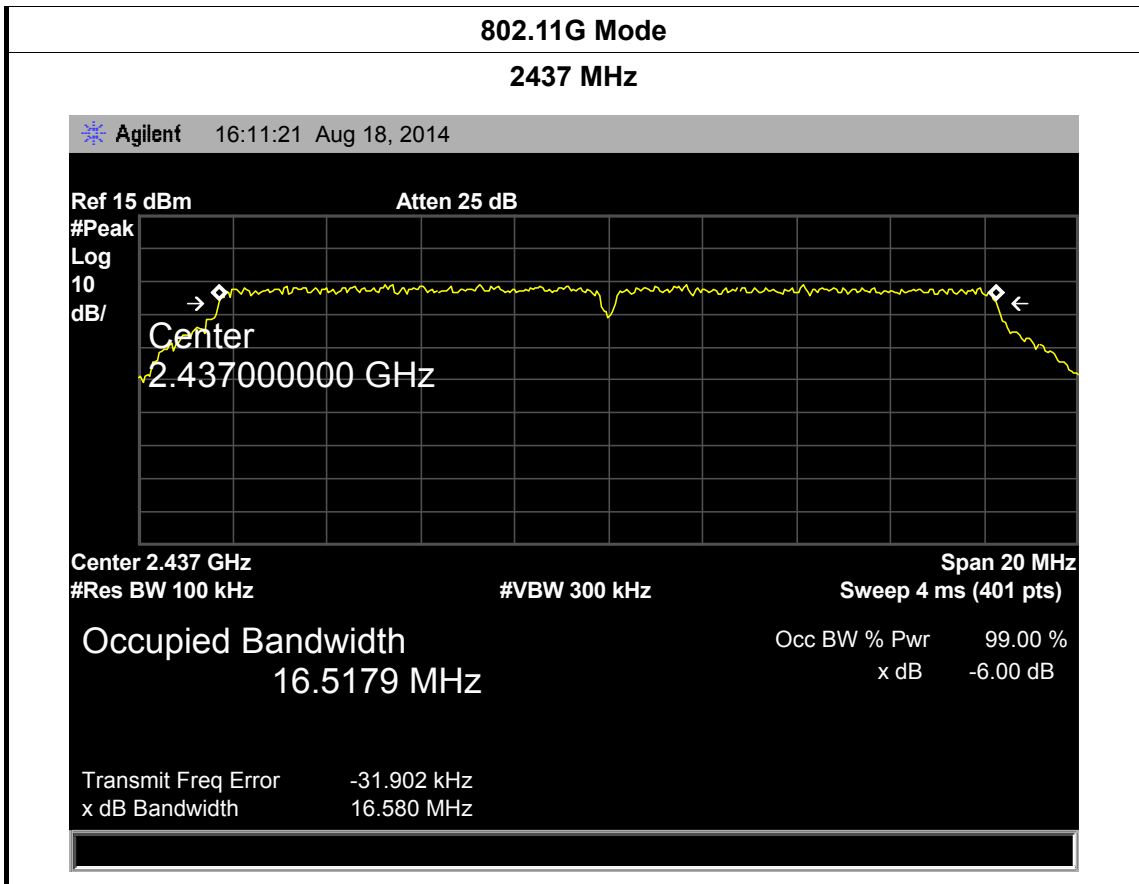
### 6.6 Test Data

<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Test Mode:</b>	TX 802.11B Mode		
<b>Channel frequency (MHz)</b>	<b>6dB Bandwidth (MHz)</b>	<b>99% Bandwidth (MHz)</b>	<b>Limit (MHz)</b>
2412	10.022	14.2737	≥0.5
2437	9.995	14.2702	
2462	10.003	14.2896	
<b>802.11B Mode</b>			
<b>2412 MHz</b>			
<p>Agilent 16:07:10 Aug 18, 2014</p> <p>Ref 15 dBm Atten 25 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 2.41200000 GHz</p> <p>Center 2.412 GHz Span 20 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 4 ms (401 pts)</p> <p>Occupied Bandwidth 14.2737 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB</p> <p>Transmit Freq Error -32.361 kHz x dB Bandwidth 10.022 MHz</p>			



<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Test Mode:</b>	TX 802.11G Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	16.579	16.4676	≥0.5
2437	16.580	16.5179	
2462	16.594	16.4758	

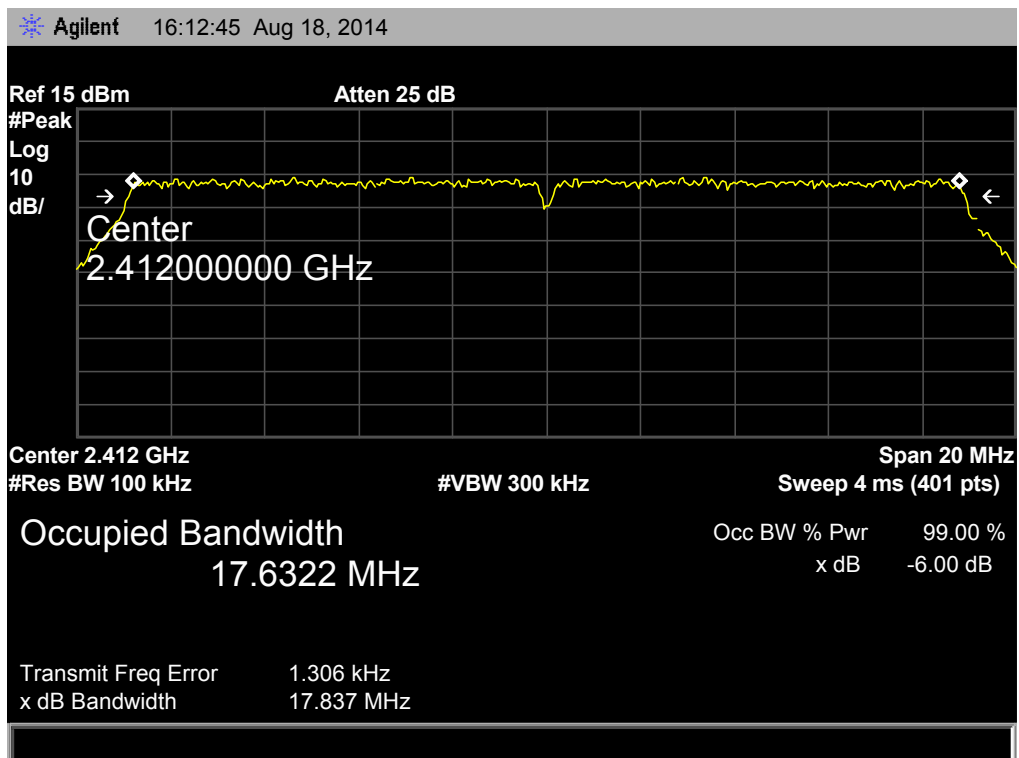
**802.11G Mode**
**2412 MHz**


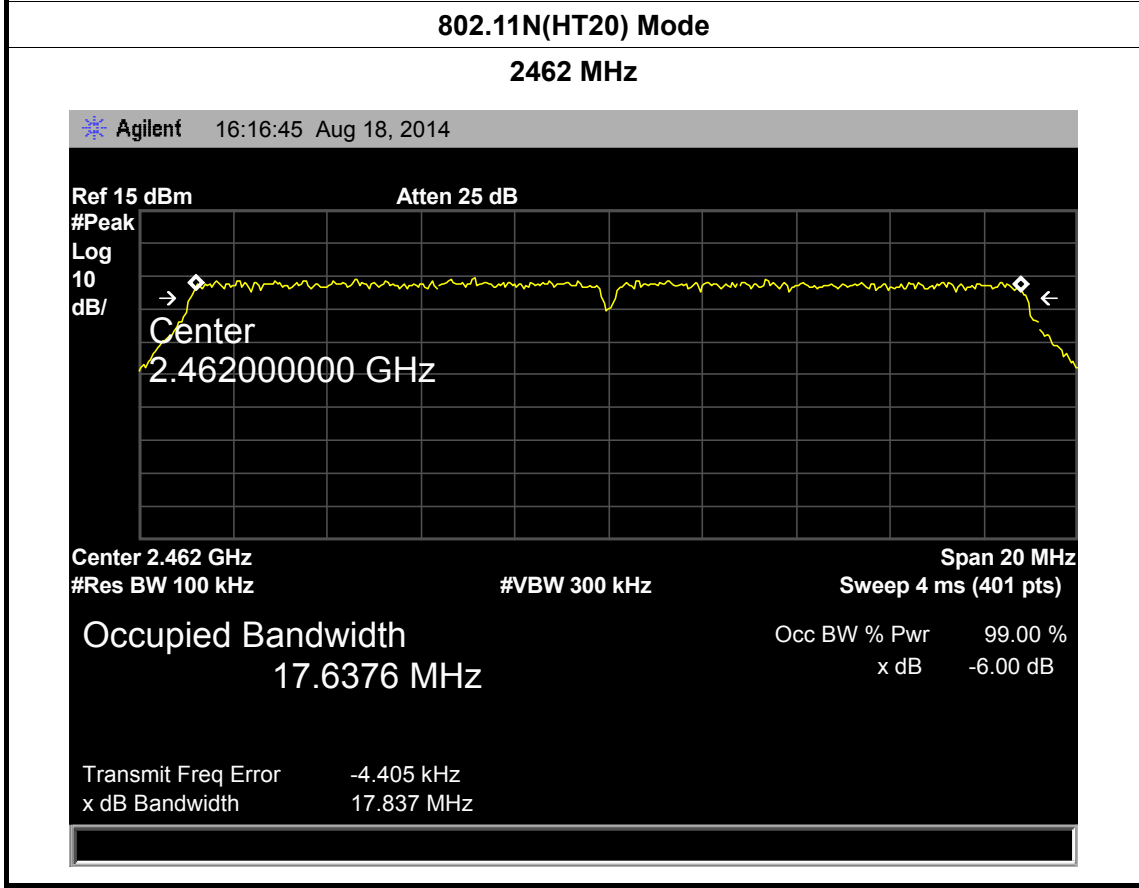
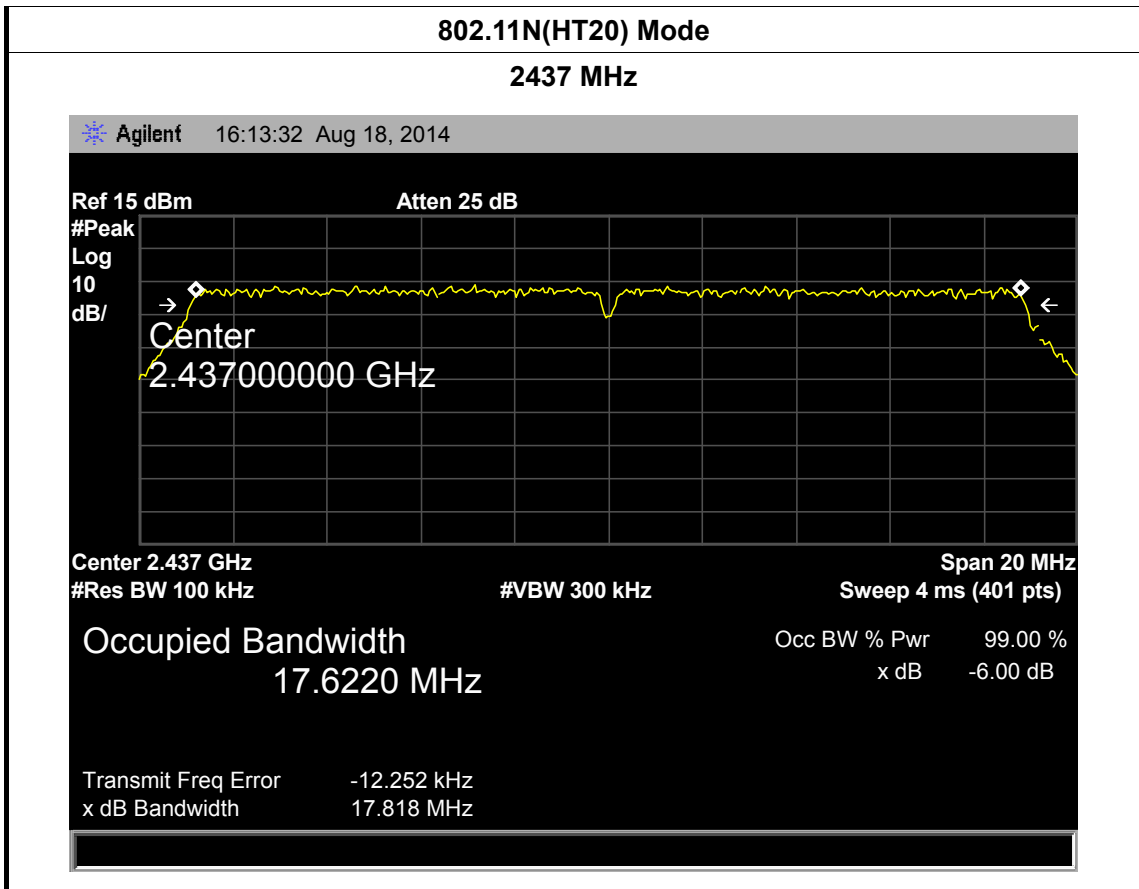


<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Test Mode:</b>	TX 802.11N(HT20) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	17.837	17.6322	≥0.5
2437	17.818	17.6220	
2462	17.837	17.6376	

**802.11N(HT20) Mode**

**2412 MHz**

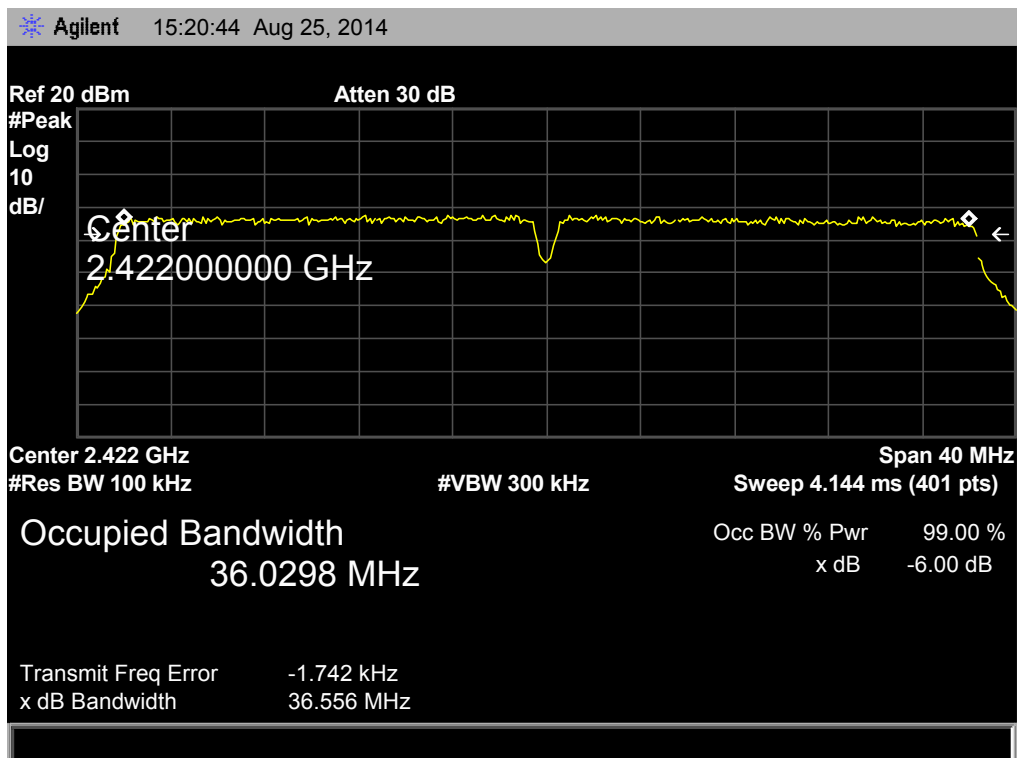




<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 Hz		
<b>Test Mode:</b>	TX 802.11N(HT40) Mode		
<b>Channel frequency (MHz)</b>	<b>6dB Bandwidth (MHz)</b>	<b>99% Bandwidth (MHz)</b>	<b>Limit (MHz)</b>
2422	36.556	36.0298	>=0.5
2437	36.524	35.9991	
2452	36.511	36.0148	

**802.11N(HT40) Mode**

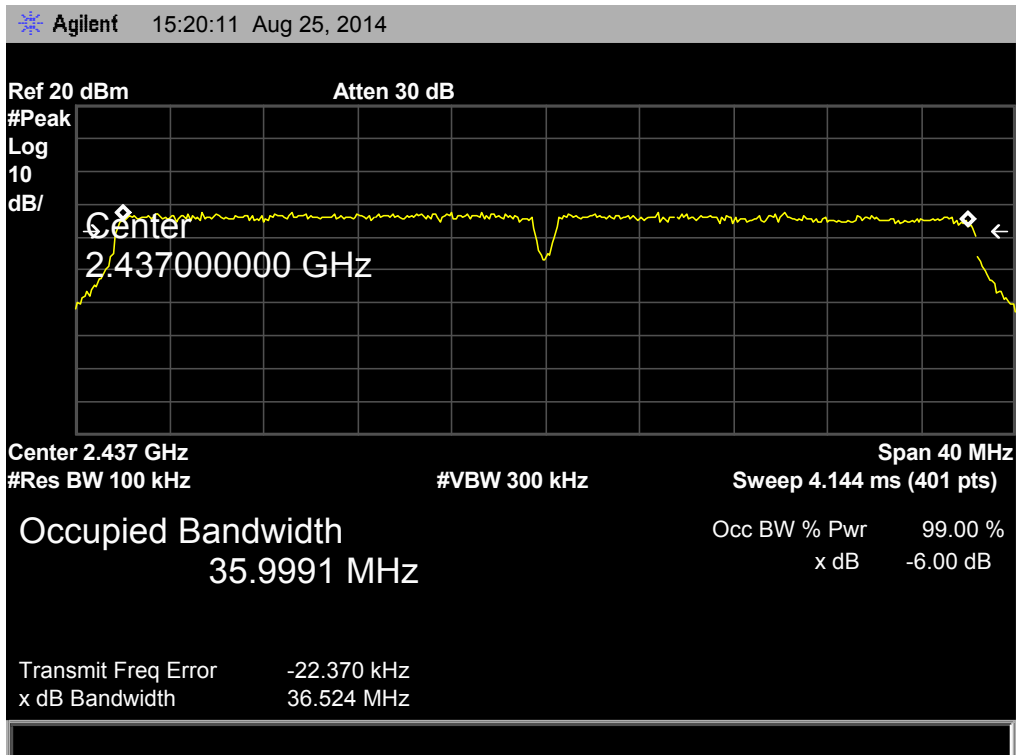
**2422 MHz**





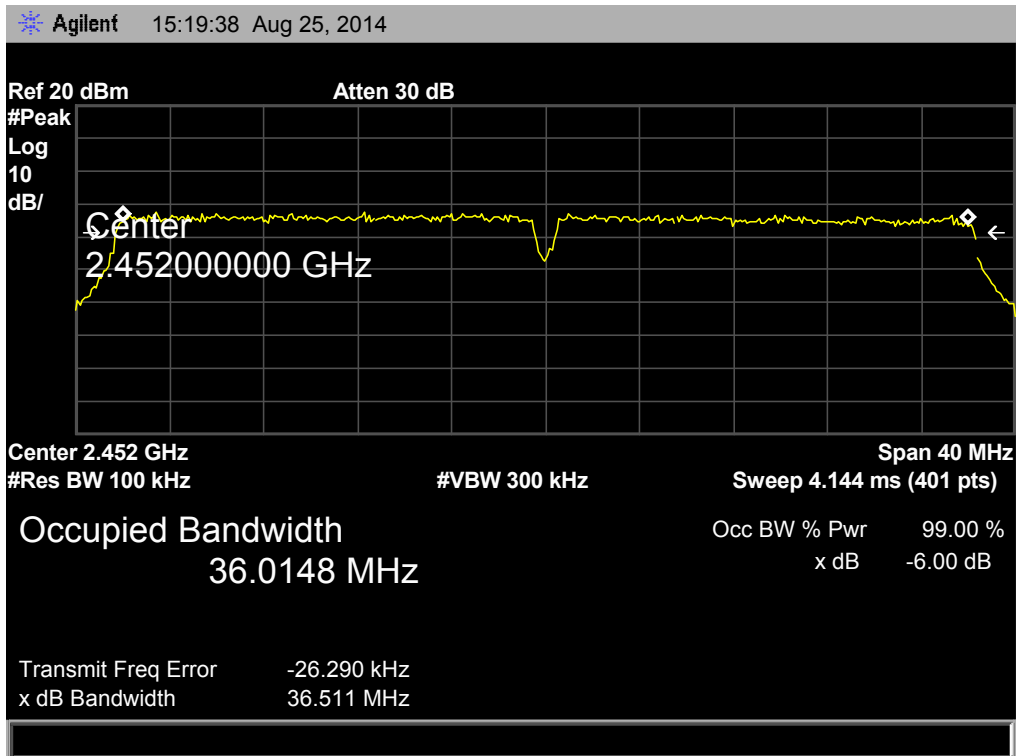
**802.11N(HT40) Mode**

**2437 MHz**



**802.11N(HT40) Mode**

**2452 MHz**



## 7. Peak Output Power Test

### 7.1 Test Standard and Limit

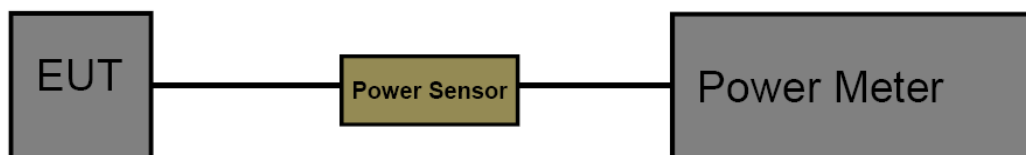
#### 7.1.1 Test Standard

FCC Part 15.247 (b)

#### 7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210		
Test Item	Limit	Frequency Range(MHz)
Peak Output Power	1 Watt or 30 dBm	2400~2483.5

### 7.2 Test Setup



### 7.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 DTS Meas Guidance v03r02.

The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

### 7.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

### 7.5 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Power Meter	Anritsu	ML2495A	25406005	Dec. 20, 2013	Dec. 19, 2014
Power Sensor	Anritsu	ML2411B	25406005	Dec. 20, 2013	Dec. 19, 2014

### 7.6 Test Data

<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 HZ		
<b>Mode</b>	<b>Channel frequency (MHz)</b>	<b>Test Result (dBm)</b>	<b>Limit (dBm)</b>
<b>802.11b</b>	<b>2412</b>	9.35	<b>30</b>
	<b>2437</b>	9.12	
	<b>2462</b>	9.56	
<b>802.11g</b>	<b>2412</b>	9.46	
	<b>2437</b>	9.25	
	<b>2462</b>	9.26	
<b>802.11n (HT20)</b>	<b>2412</b>	9.45	
	<b>2437</b>	9.29	
	<b>2462</b>	9.29	
<b>802.11n (HT40)</b>	<b>2422</b>	9.15	
	<b>2437</b>	9.56	
	<b>2452</b>	9.22	

## 8. Power Spectral Density Test

### 8.1 Test Standard and Limit

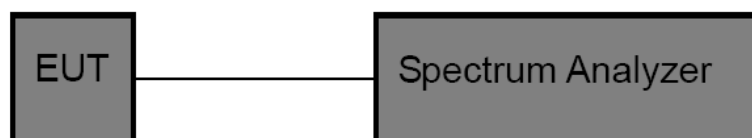
#### 8.1.1 Test Standard

FCC Part 15.247 (e)

#### 8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)		
Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

### 8.2 Test Setup



### 8.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v03r02.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz
- (5) Set the VBW to: 10 kHz
- (6) Detector: peak
- (7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

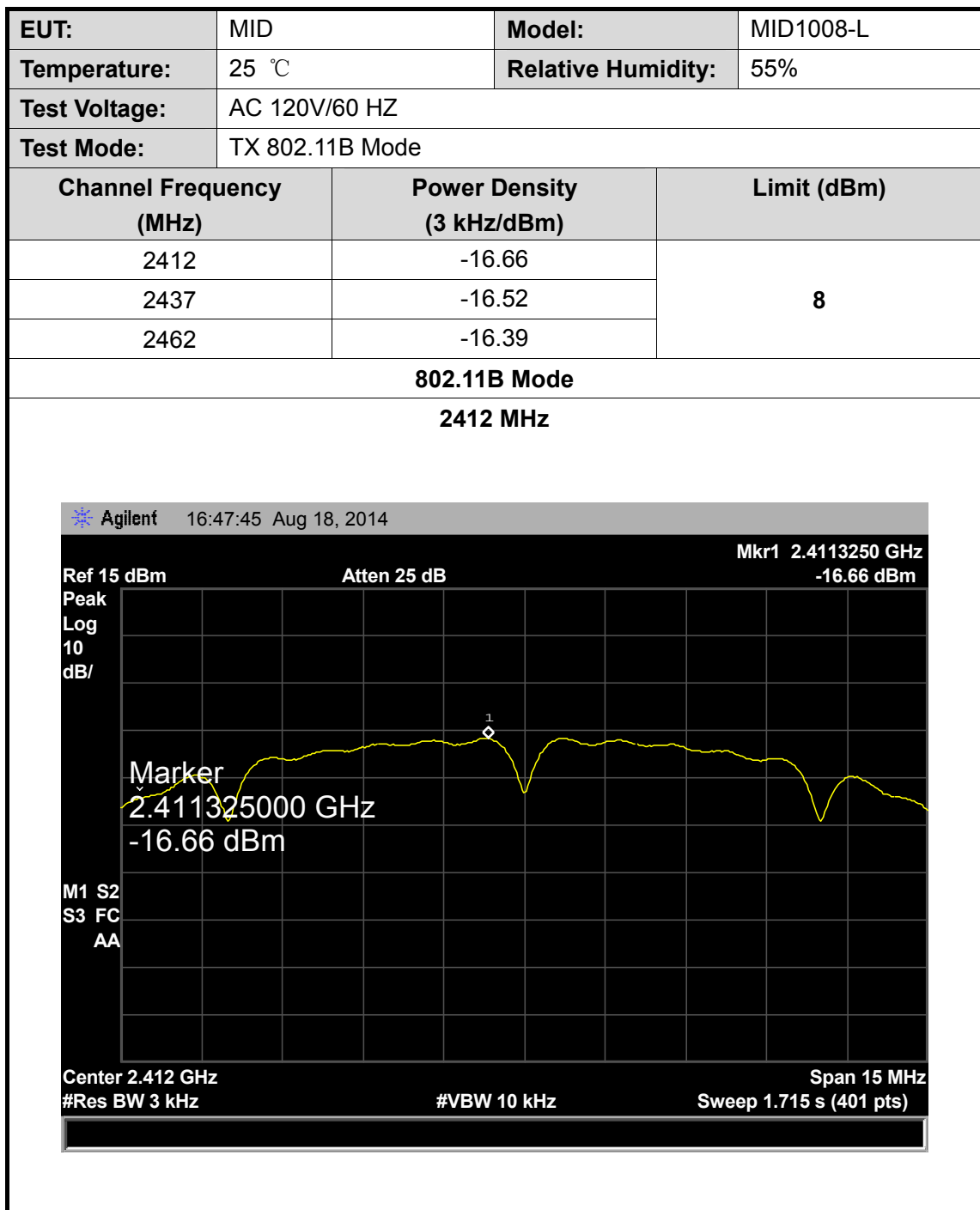
### 8.4 EUT Operating Condition

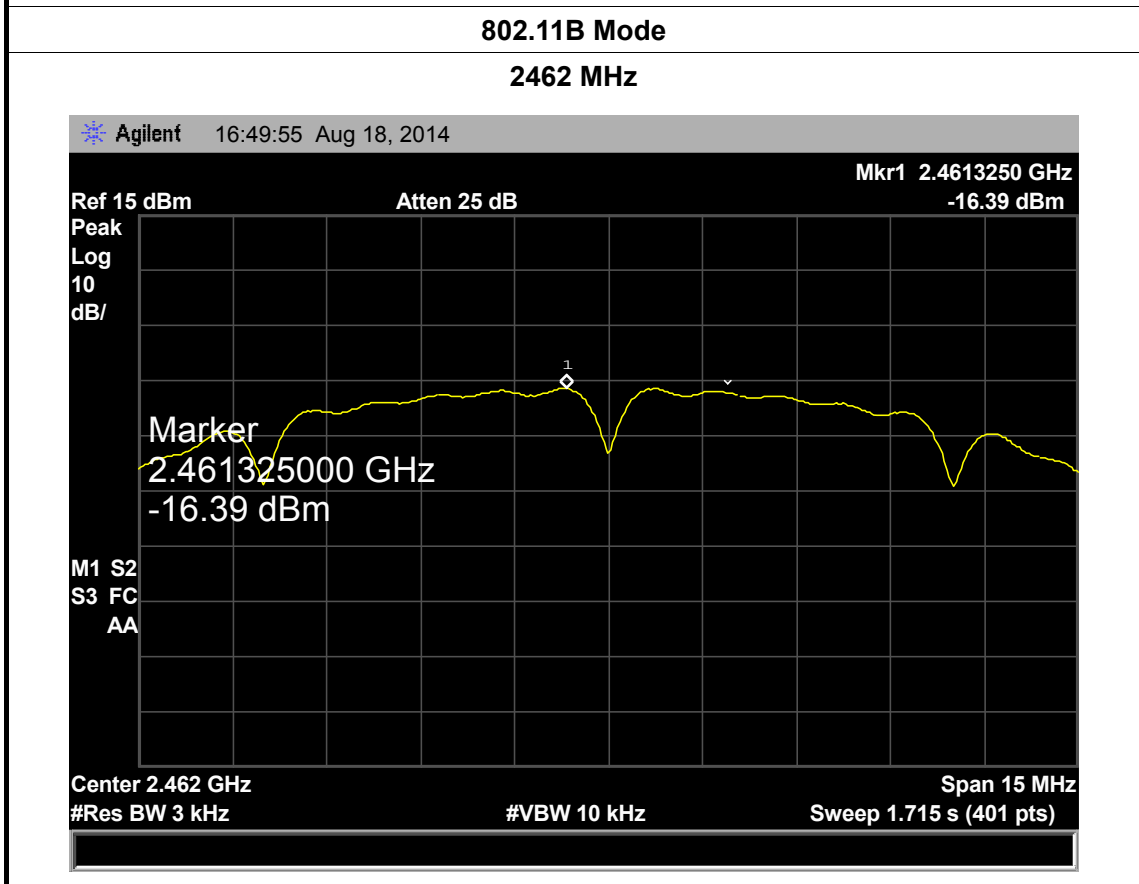
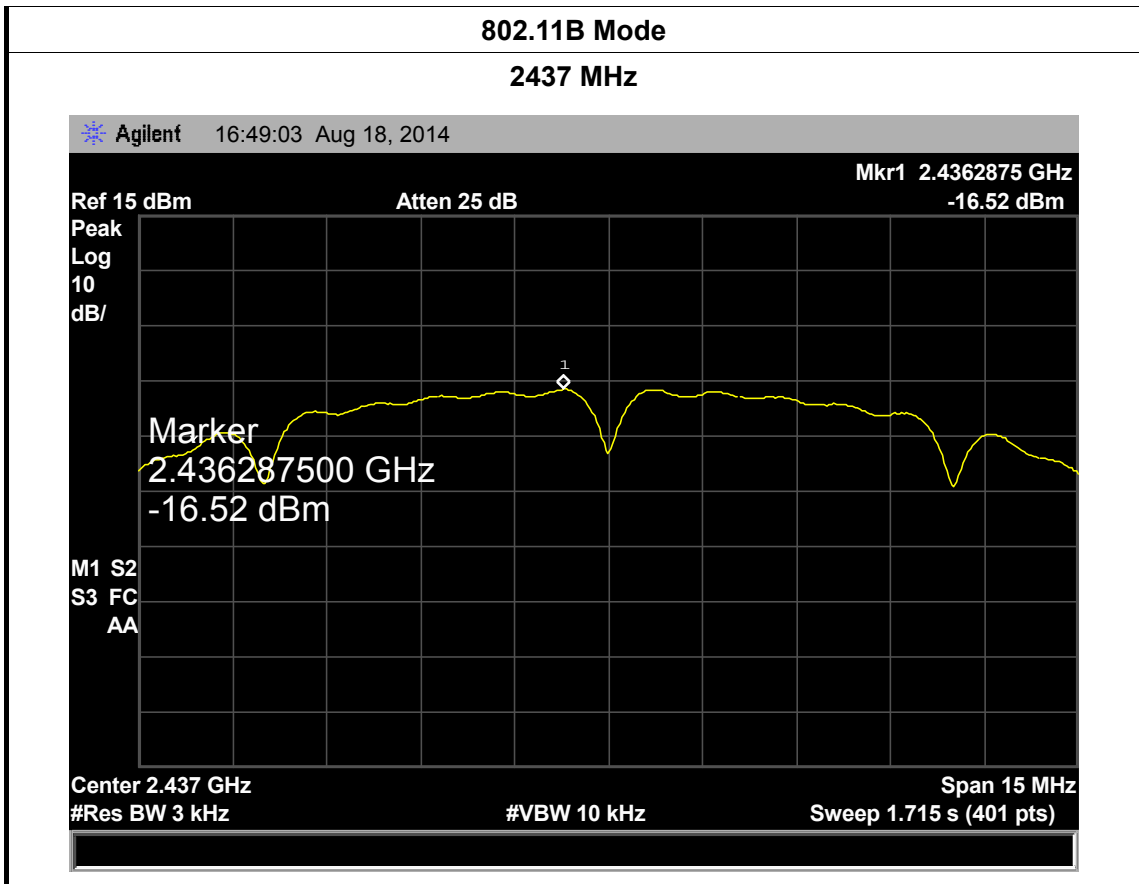
The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.

### 8.5 Test Equipment

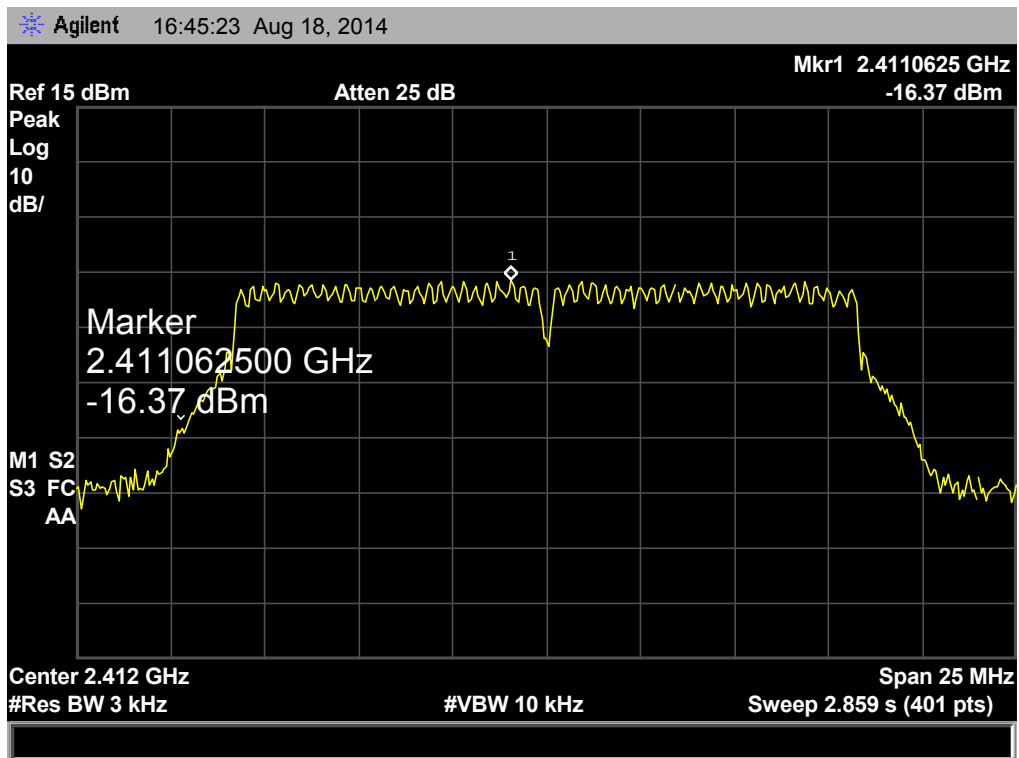
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Mar. 20, 2014	Mar. 19, 2015

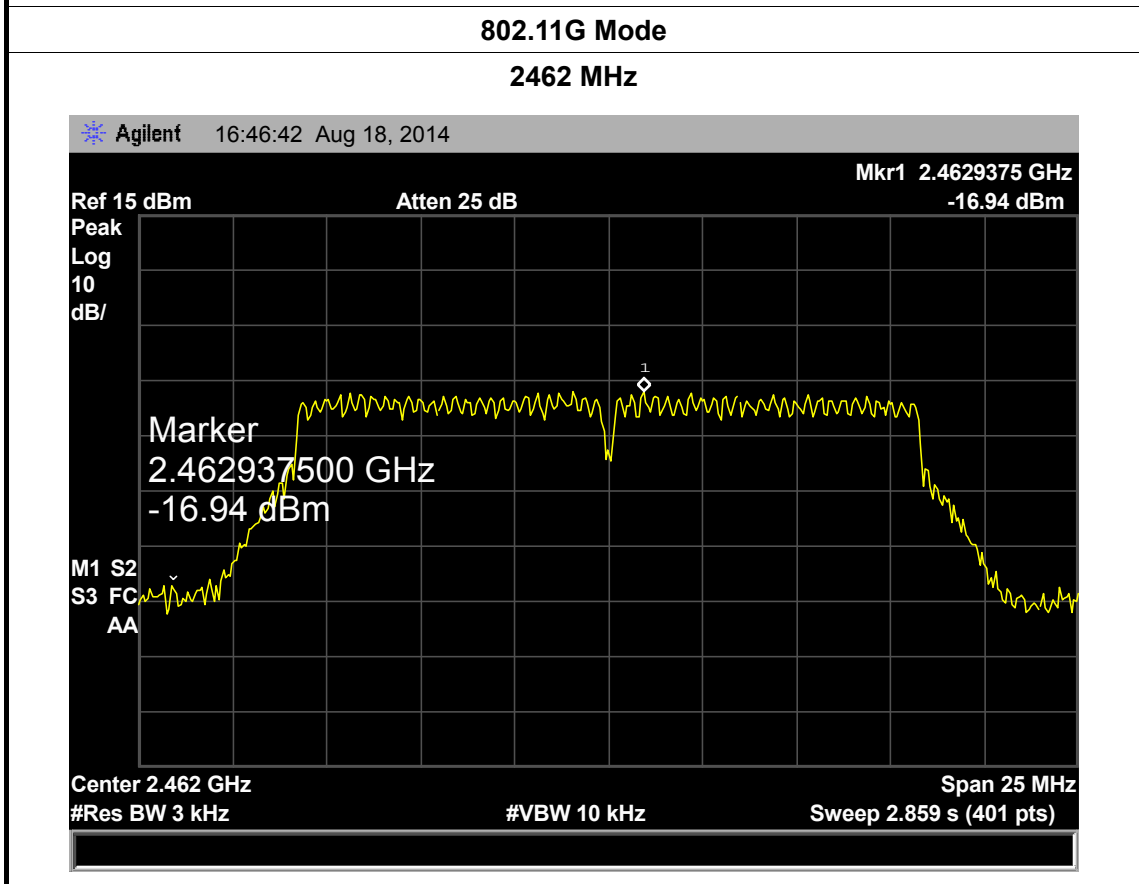
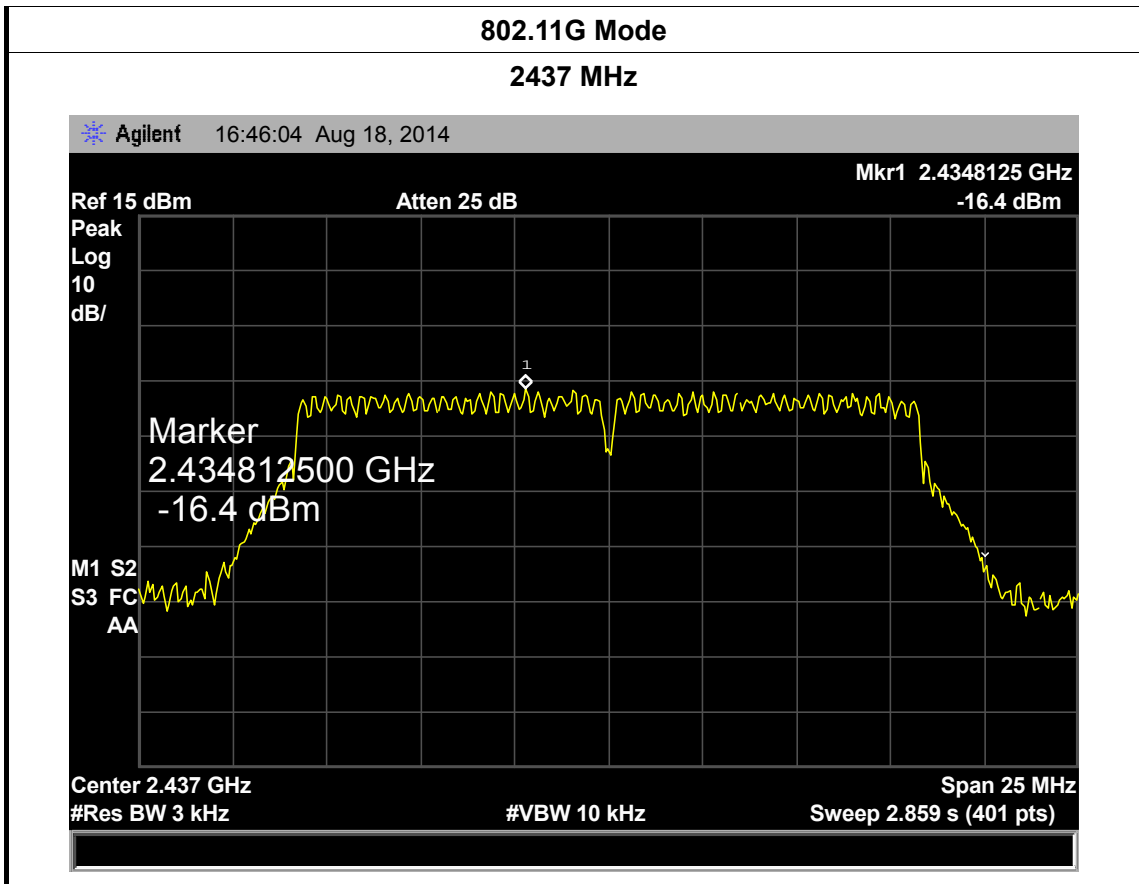
### 8.6 Test Data





<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 HZ		
<b>Test Mode:</b>	TX 802.11G Mode		
<b>Channel Frequency (MHz)</b>	<b>Power Density (3 kHz/dBm)</b>	<b>Limit (dBm)</b>	
2412	-16.37	<b>8</b>	
2437	-16.40		
2462	-16.94		

**802.11G Mode**
**2412 MHz**


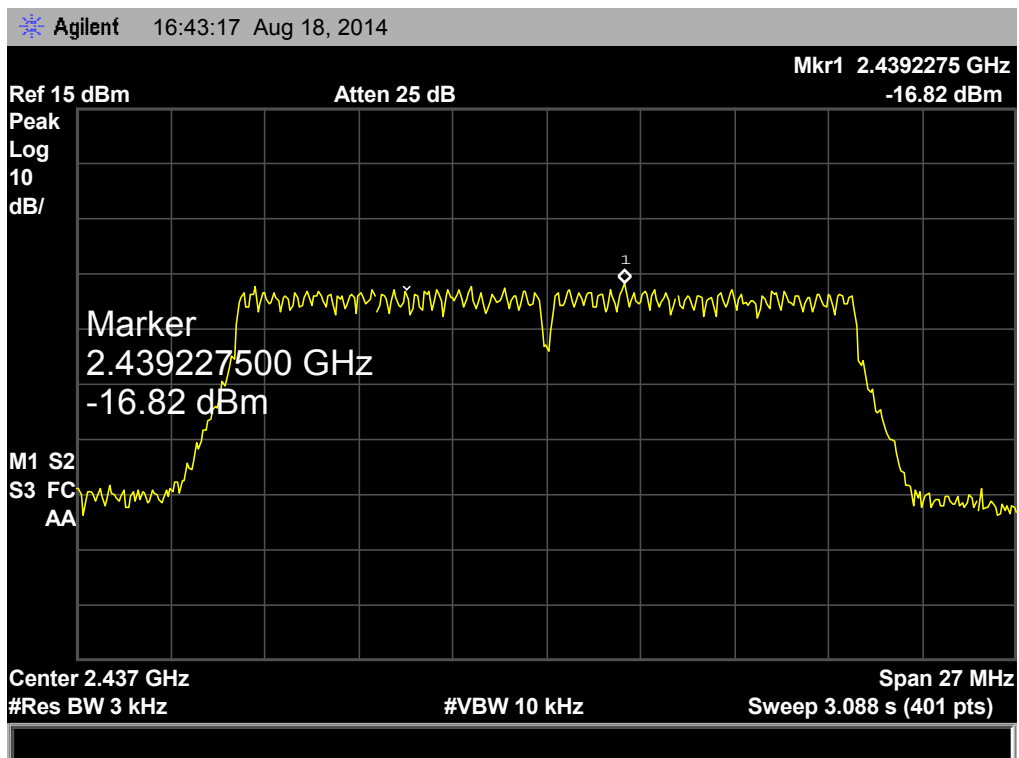




<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 HZ		
<b>Test Mode:</b>	TX 802.11N(HT20) Mode		
Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)	
2412	-14.34	8	
2437	-25.05		
2462	-24.20		
<b>802.11N(HT20) Mode</b>			
<b>2412 MHz</b>			
<p>Agilent 16:42:39 Aug 18, 2014</p> <p>Ref 15 dBm Atten 25 dB Mkr1 2.4098400 GHz -17.01 dBm</p> <p>Peak Log 10 dB/</p> <p>Marker 2.409840000 GHz -17.01 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 2.412 GHz Span 27 MHz #Res BW 3 kHz #VBW 10 kHz Sweep 3.088 s (401 pts)</p>			

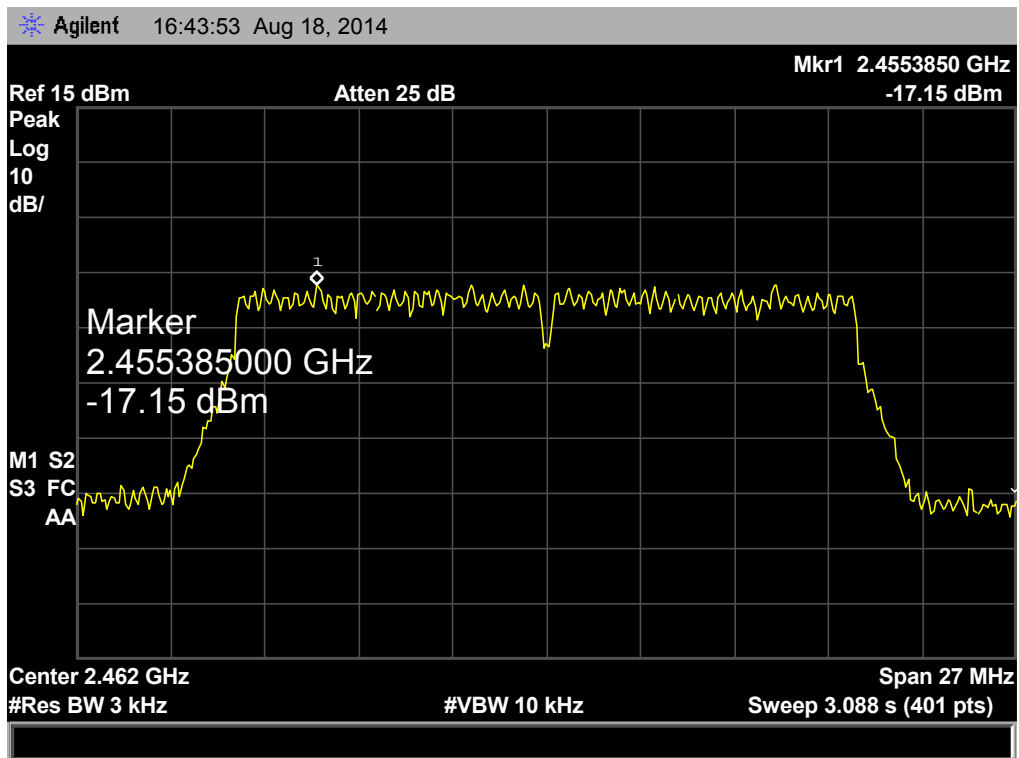
**802.11N(HT20) Mode**

**2437 MHz**



**802.11N(HT20) Mode**

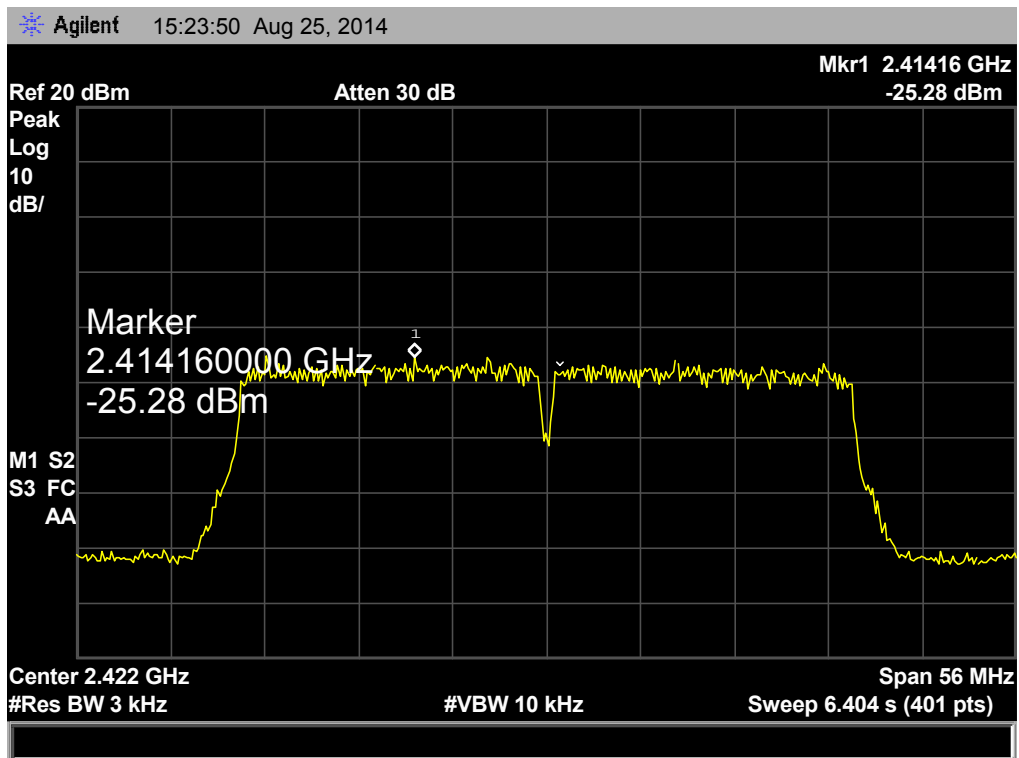
**2462 MHz**



<b>EUT:</b>	MID	<b>Model:</b>	MID1008-L
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60 HZ		
<b>Test Mode:</b>	TX 802.11N(HT40) Mode		
<b>Channel Frequency (MHz)</b>	<b>Power Density (3 kHz/dBm)</b>	<b>Limit (dBm)</b>	
2422	-25.28	8	
2437	-24.97		
2452	-25.34		

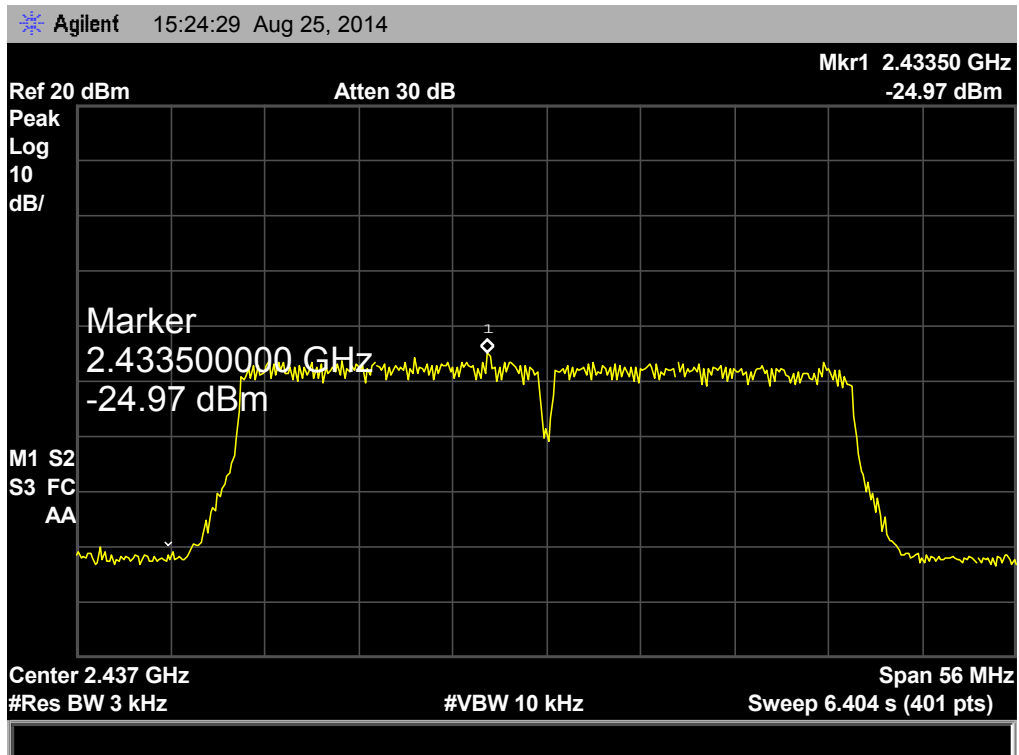
**802.11N(HT40) Mode**

**2422 MHz**



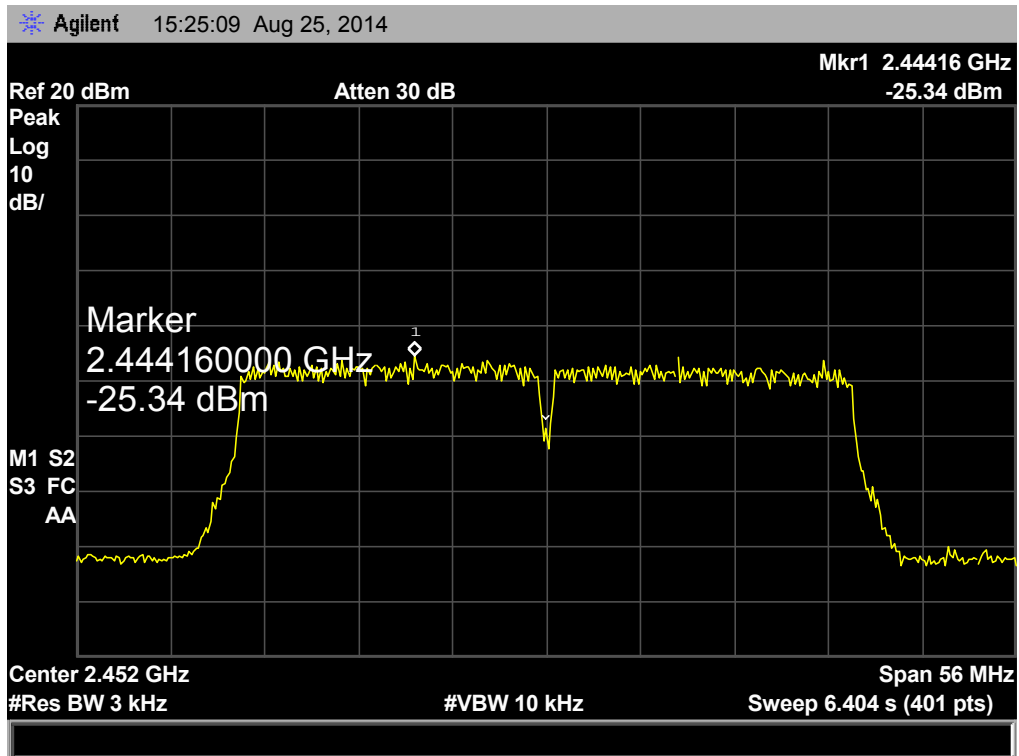
**802.11N(HT40) Mode**

**2437 MHz**



**802.11N(HT40) Mode**

**2452 MHz**



## 9. Antenna Requirement

### 9.1 Standard Requirement

#### 9.1.1 Standard

FCC Part 15.203

#### 9.1.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 9.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 0dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

### 9.3 Result

The EUT antenna is a FPC Antenna. It complies with the standard requirement.