



FCC RADIO TEST REPORT

FCC ID: 2AAAEPF-M971

Product : MID

Trade Name : N/A

Model Name : PF-M971

Serial Model : PF-MA701, PF-MR802, PF-MI901, PF-MT1006,
PF-C868, PF-T503, PF-K704, PF-P248,
PF-MP896, PF-T182, PF-3M68, PF-A621,
PF-I972, PF-F568

Report No. : NTEK-2013NT0425019F

Prepared for

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Shenzhen PF Technology Company Limited Co., Ltd.
Address : Rm.28A, Block C, New Huaqiang Plaza, Huaqiang North Rd.,
 Futian Dist., Shenzhen, China

Manufacture's Name : Shenzhen PF Technology Company Limited Co., Ltd.
Address : Rm.28A, Block C, New Huaqiang Plaza, Huaqiang North Rd.,
 Futian Dist., Shenzhen, China

Product description

Product name : MID
Model and/or type reference : PF-M971
Serial Model : PF-MA701, PF-MR802, PF-MI901, PF-MT1006, PF-C868,
 PF-T503, PF-K704, PF-P248, PF-MP896, PF-T182,
 PF-3M68, PF-A621, PF-I972, PF-F568

Standards : FCC Part15.247

Test procedure ANSI C63.4-2003

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test :

Date (s) of performance of tests : 12 Mar. 2013 ~15 Apr. 2013

Date of Issue : 15 Apr. 2013

Test Result : **Pass**

Testing Engineer : Apple Huang
 (Apple Huang)

Technical Manager : Tom Zhang
 (Tom Zhang)

Authorized Signatory : Bovey Yang
 (Bovey Yang)

Table of Contents

	Page
1 . SUMMARY OF TEST RESULTS	5
1.1 TEST FACILITY	6
1.2 MEASUREMENT UNCERTAINTY	6
2 . GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF EUT	7
2.2 DESCRIPTION OF TEST MODES	9
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	10
2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	11
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	12
3 . EMC EMISSION TEST	13
3.1 CONDUCTED EMISSION MEASUREMENT	13
3.1.1 POWER LINE CONDUCTED EMISSION LIMITS	13
3.1.2 TEST PROCEDURE	14
3.1.3 DEVIATION FROM TEST STANDARD	14
3.1.4 TEST SETUP	14
3.1.5 EUT OPERATING CONDITIONS	14
3.1.6 TEST RESULTS	15
3.2 RADIATED EMISSION MEASUREMENT	17
3.2.1 RADIATED EMISSION LIMITS	17
3.2.2 TEST PROCEDURE	18
3.2.3 DEVIATION FROM TEST STANDARD	18
3.2.4 TEST SETUP	19
3.2.5 EUT OPERATING CONDITIONS	20
3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)	21
3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)	22
3.2.8 TEST RESULTS (ABOVE 1000 MHZ)	24
4 . POWER SPECTRAL DENSITY TEST	54
4.1 APPLIED PROCEDURES / LIMIT	54
4.1.1 TEST PROCEDURE	54
4.1.2 DEVIATION FROM STANDARD	54
4.1.3 TEST SETUP	54
4.1.4 EUT OPERATION CONDITIONS	54
4.1.5 TEST RESULTS	55
5 . BANDWIDTH TEST	61
5.1 APPLIED PROCEDURES / LIMIT	61
5.1.1 TEST PROCEDURE	61

Table of Contents

	Page
5.1.2 DEVIATION FROM STANDARD	61
5.1.3 TEST SETUP	61
5.1.4 EUT OPERATION CONDITIONS	61
5.1.5 TEST RESULTS	62
6 . PEAK OUTPUT POWER TEST	68
6.1 APPLIED PROCEDURES / LIMIT	68
6.1.1 TEST PROCEDURE	68
6.1.2 DEVIATION FROM STANDARD	68
6.1.3 TEST SETUP	68
6.1.4 EUT OPERATION CONDITIONS	68
6.1.5 TEST RESULTS	69
7 . ANTENNA REQUIREMENT	70
7.1 STANDARD REQUIREMENT	70
7.2 EUT ANTENNA	70
8 . EUT TEST PHOTO	71
APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	Power Spectral Density	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.:1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	MID												
Trade Name	N/A												
Model Name	PF-M971												
Serial Model	PF-MA701, PF-MR802, PF-MI901, PF-MT1006, PF-C868, PF-T503, PF-K704, PF-P248, PF-MP896, PF-T182, PF-3M68, PF-A621, PF-I972, PF-F568												
Model Difference	All the model have the same circuit and RF module, except surface shell is color difference.												
Product Description	<p>The EUT is a MID</p> <table border="1"> <tr> <td>Operation Frequency:</td><td>2412~2462 MHz</td></tr> <tr> <td>Modulation Type:</td><td>CCK/OFDM/DBPSK/DAPSK</td></tr> <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(20): 78/52/6.5 Mbps</td></tr> <tr> <td>Number Of Channel</td><td>11 CH, Please see Note 2.</td></tr> <tr> <td>Antenna Designation:</td><td>Please see Note 3.</td></tr> <tr> <td>Output Power(Conducted):</td><td>802.11b: 12.76 dBm (Max.) 802.11g: 11.73 dBm (Max.) 802.11n(20): 11.95 dBm (Max.)</td></tr> </table> <p>Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.</p>	Operation Frequency:	2412~2462 MHz	Modulation Type:	CCK/OFDM/DBPSK/DAPSK	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(20): 78/52/6.5 Mbps	Number Of Channel	11 CH, Please see Note 2.	Antenna Designation:	Please see Note 3.	Output Power(Conducted):	802.11b: 12.76 dBm (Max.) 802.11g: 11.73 dBm (Max.) 802.11n(20): 11.95 dBm (Max.)
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Number Of Channel	11 CH, Please see Note 2.												
Antenna Designation:	Please see Note 3.												
Output Power(Conducted):	802.11b: 12.76 dBm (Max.) 802.11g: 11.73 dBm (Max.) 802.11n(20): 11.95 dBm (Max.)												
Channel List	Please refer to the Note 2.												
Ratings	DC 3.7V												
Adapter	Model: YSD-0515<IC> INPUT: 100~240V~, 50/60Hz, 0.3A OUTPUT: 5.0V---, 2000mA												
Battery	DC 3.7V, 7000mAh												
Connecting I/O Port(s)	Please refer to the User's Manual												

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Channel List for 802.11b/g/n							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	N/A	PCB Antenna	N/A	0	N/A

2.2 DESCRIPTION OF TEST MODES

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 above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n(20)CH1/ CH6/ CH11
Mode 4	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode

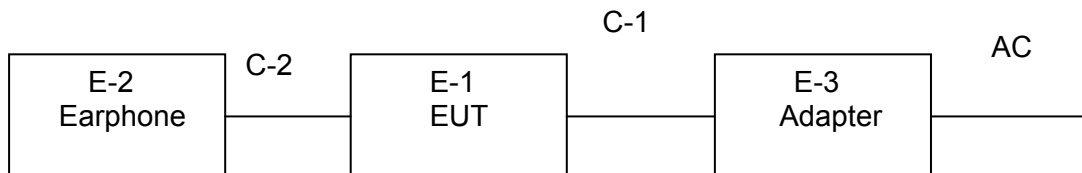
For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n(20)CH1/ CH6/ CH11

Note:

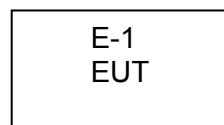
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	MID	N/A	PF-M971	N/A	EUT
E-2	Earphone	N/A	N/A	N/A	
E-3	Adapter	N/A	YSD-0515<IC>	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.0M	
C-2	NO	NO	1.0M	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2012.07.06	2013.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2012.06.07	2013.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2012.07.06	2013.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2012.06.07	2013.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2012.06.07	2013.06.06	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2012.07.06	2013.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2012.07.06	2013.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2012.12.22	2013.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2012.06.08	2013.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2012.07.06	2013.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2012.07.06	2013.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2012.06.06	2013.06.05	1 year
2	LISN	R&S	ENV216	101313	2012.08.24	2013.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2012.08.24	2013.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2012.06.07	2013.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2012.06.07	2013.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2012.06.08	2013.06.07	1 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- The EUT was placed 0.4 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

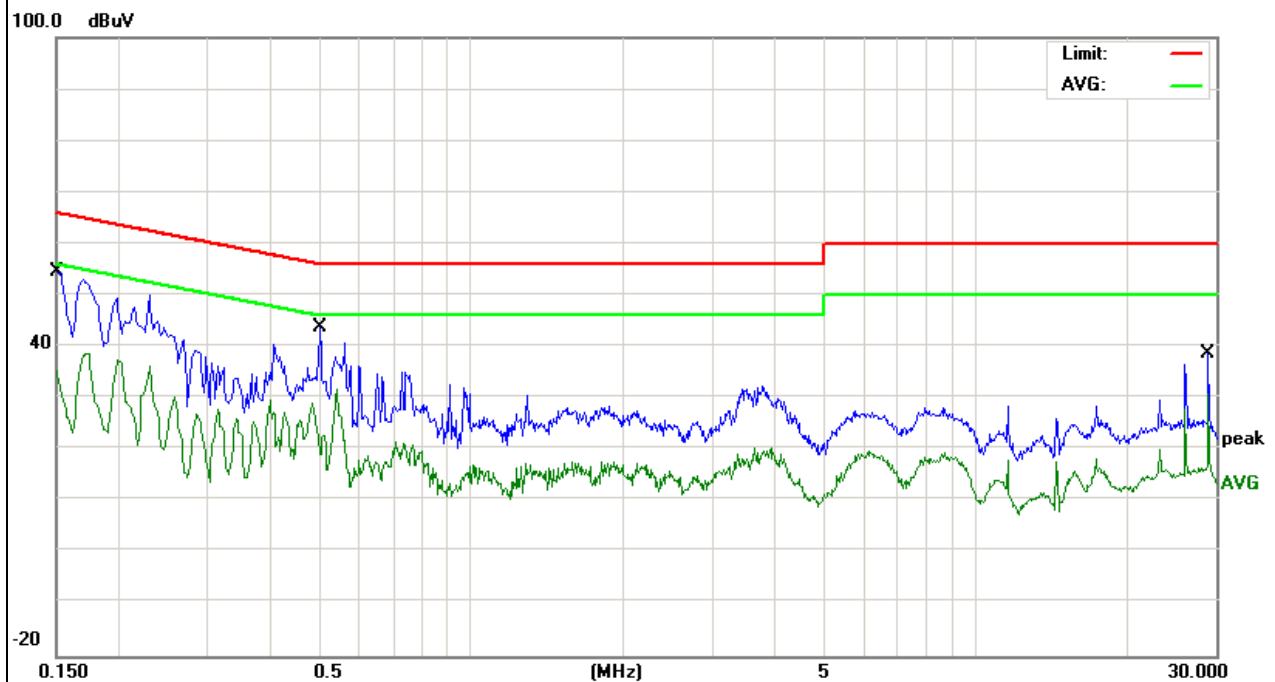
3.1.6 TEST RESULTS

EUT :	MID	Model Name. :	PF-M971
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V from adapter AC120V/60Hz	Test Mode :	Mode 4

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1500	44.67	9.82	54.49	65.99	-11.50	QP
0.1500	28.81	9.82	38.63	55.99	-17.36	AVG
0.5020	33.54	10.20	43.74	56.00	-12.26	QP
0.5020	21.59	10.20	31.79	46.00	-14.21	AVG
29.0060	28.11	10.69	38.80	60.00	-21.20	QP
29.0060	20.12	10.69	30.81	50.00	-19.19	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

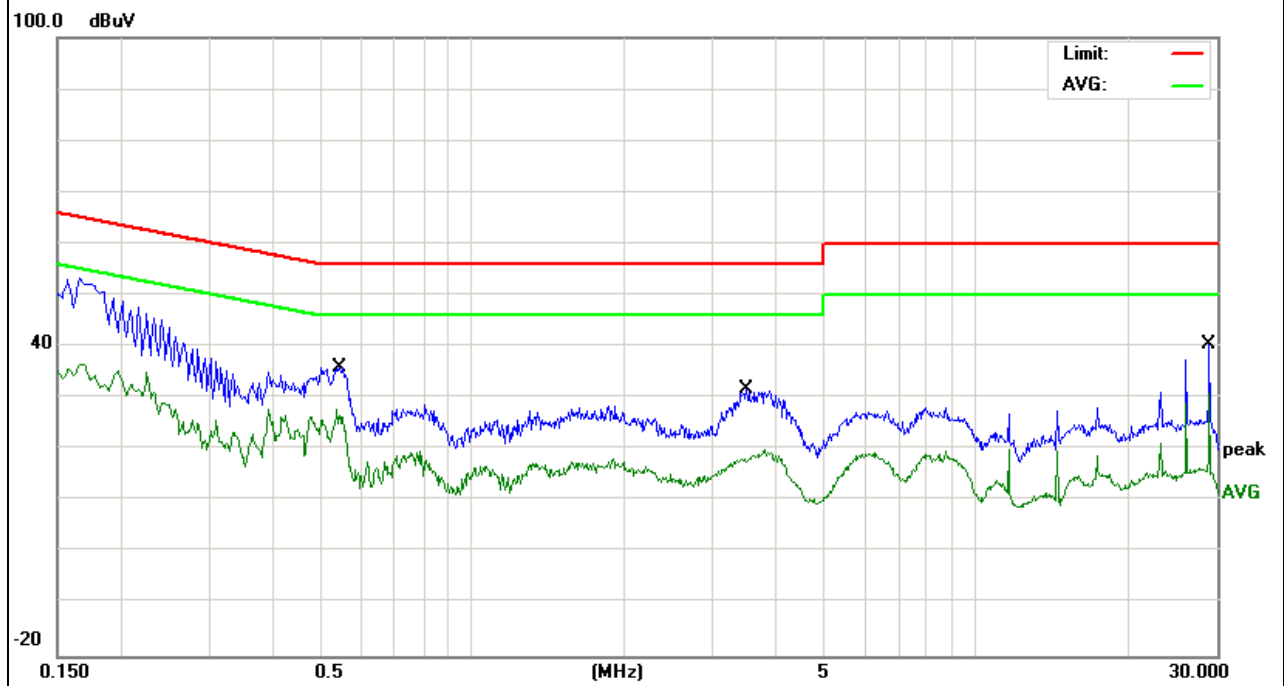


EUT :	MID	Model Name. :	PF-M971
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V from adapter AC120V/60Hz	Test Mode :	Mode 4

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Detector Type
0.5380	25.82	10.20	36.02	56.00	-19.98	QP
0.5380	17.73	10.20	27.93	46.00	-18.07	AVG
3.5060	21.37	10.32	31.69	56.00	-24.31	QP
3.5060	9.59	10.32	19.91	46.00	-26.09	AVG
28.9500	29.76	10.69	40.45	60.00	-19.55	QP
28.9500	20.10	10.69	30.79	50.00	-19.21	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

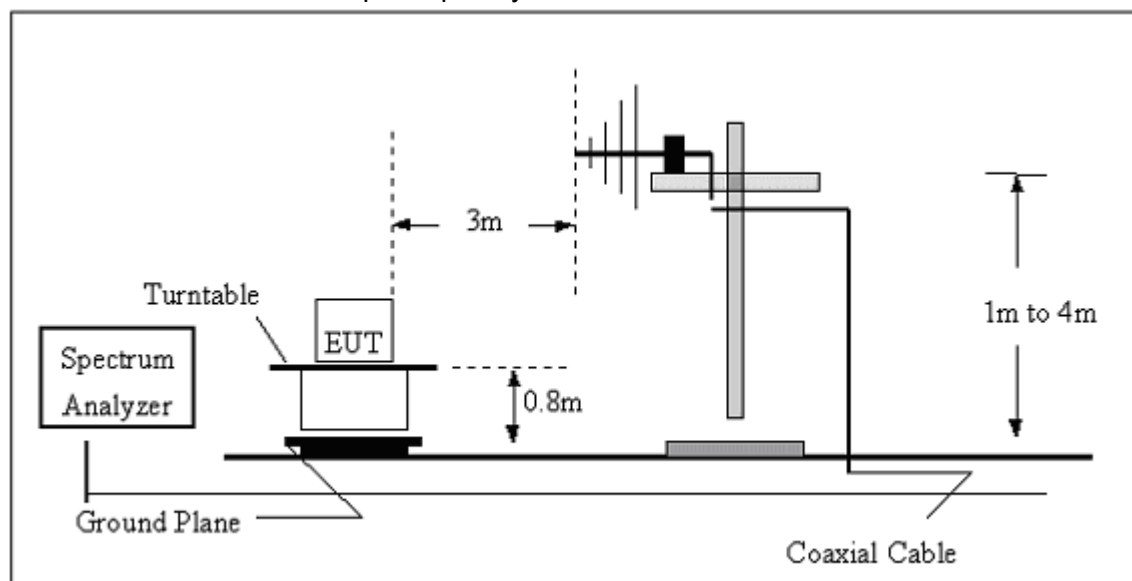
No deviation

3.2.4 TEST SETUP

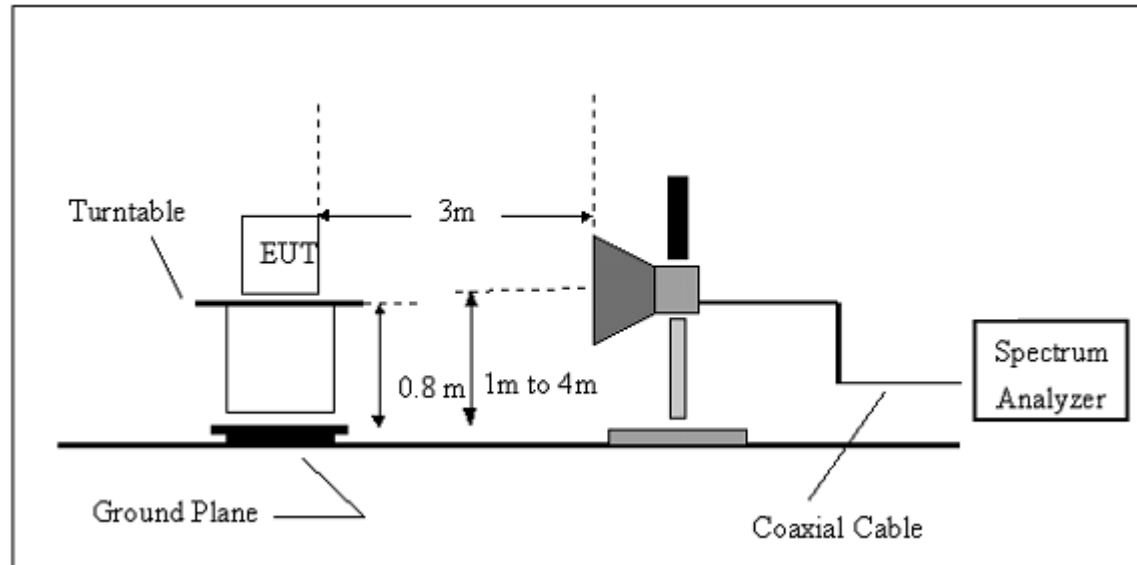
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz

**3.2.5 EUT OPERATING CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

EUT:	MID	Model Name. :	PF-M971
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 4	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $20 \log (\text{specific distance/test distance})(\text{dB})$;

Limit line = specific limits(dBuv) + distance extrapolation factor.

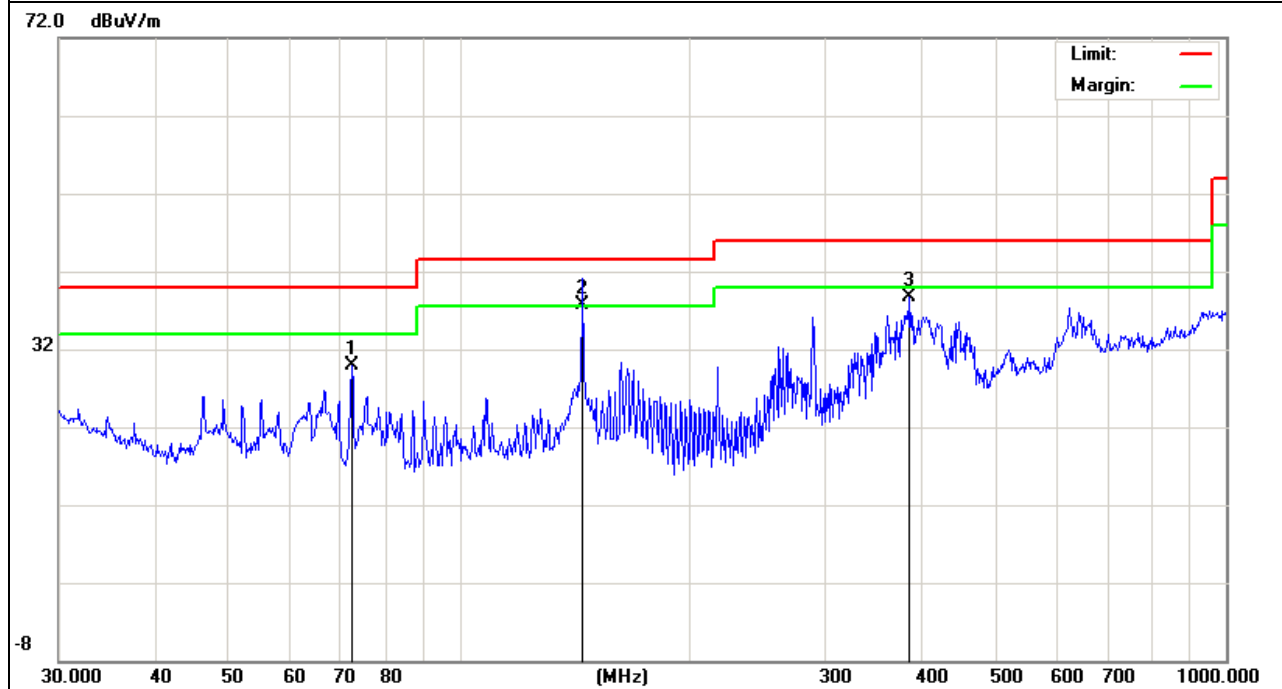
3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 4	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
72.3376	23.56	6.41	29.97	40.00	-10.03	QP
144.8418	25.77	12.03	37.80	43.50	-5.70	QP
386.6338	21.13	17.54	38.67	46.00	-7.33	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

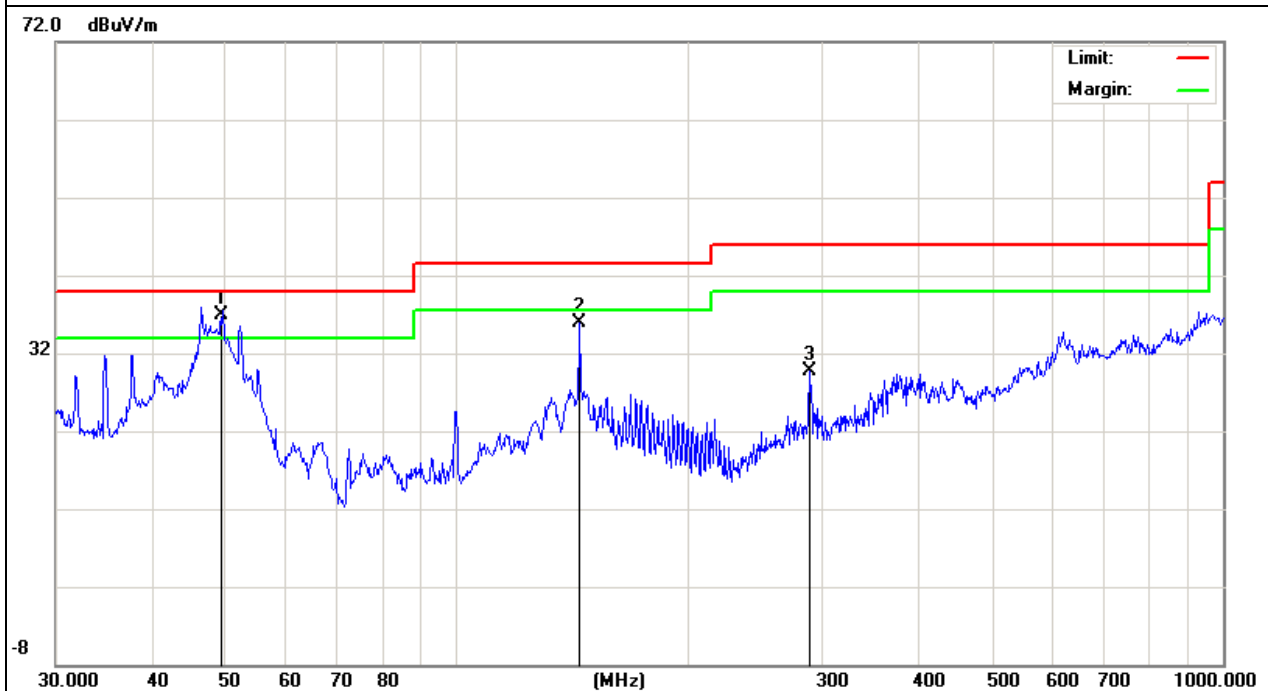


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 4	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
49.3594	28.36	8.54	36.90	40.00	-3.10	QP
144.8418	23.78	12.03	35.81	43.50	-7.69	QP
289.0021	15.44	14.34	29.78	46.00	-16.22	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



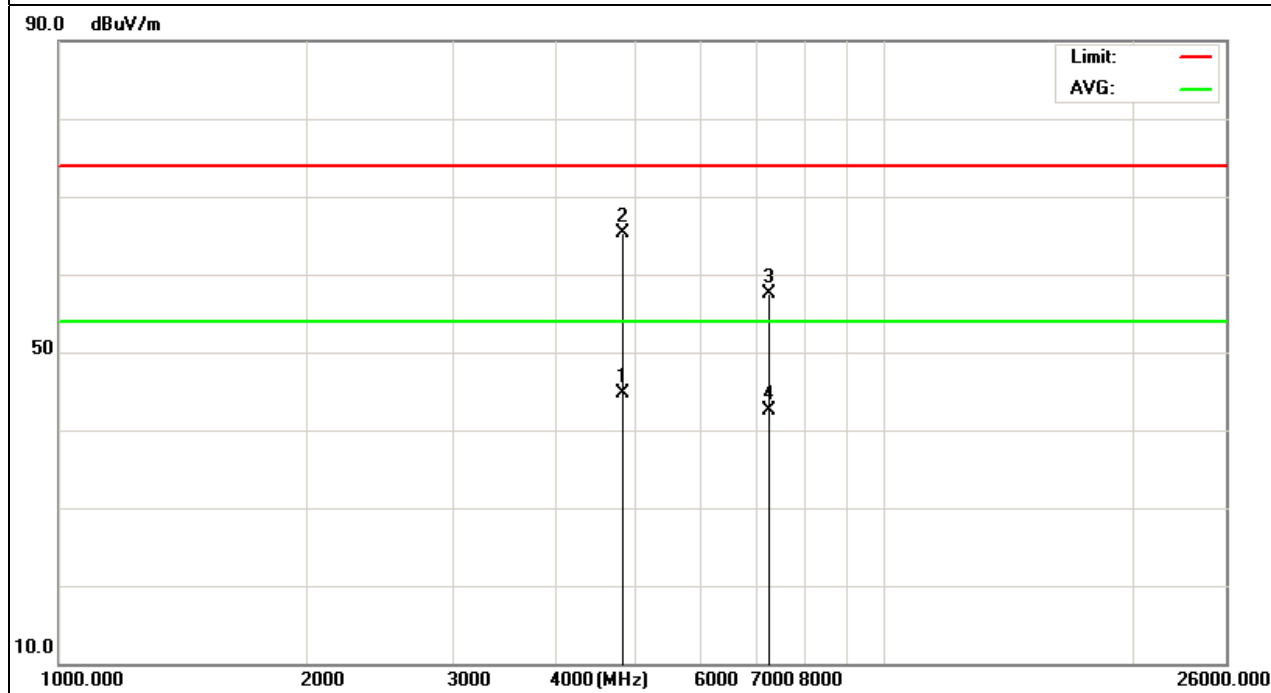
3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.143	34.35	10.44	44.79	54.00	-9.21	AVG
4824.156	54.85	10.44	65.29	74.00	-8.71	peak
7236.126	45.21	12.39	57.60	74.00	-16.40	peak
7236.135	30.12	12.39	42.51	54.00	-11.49	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

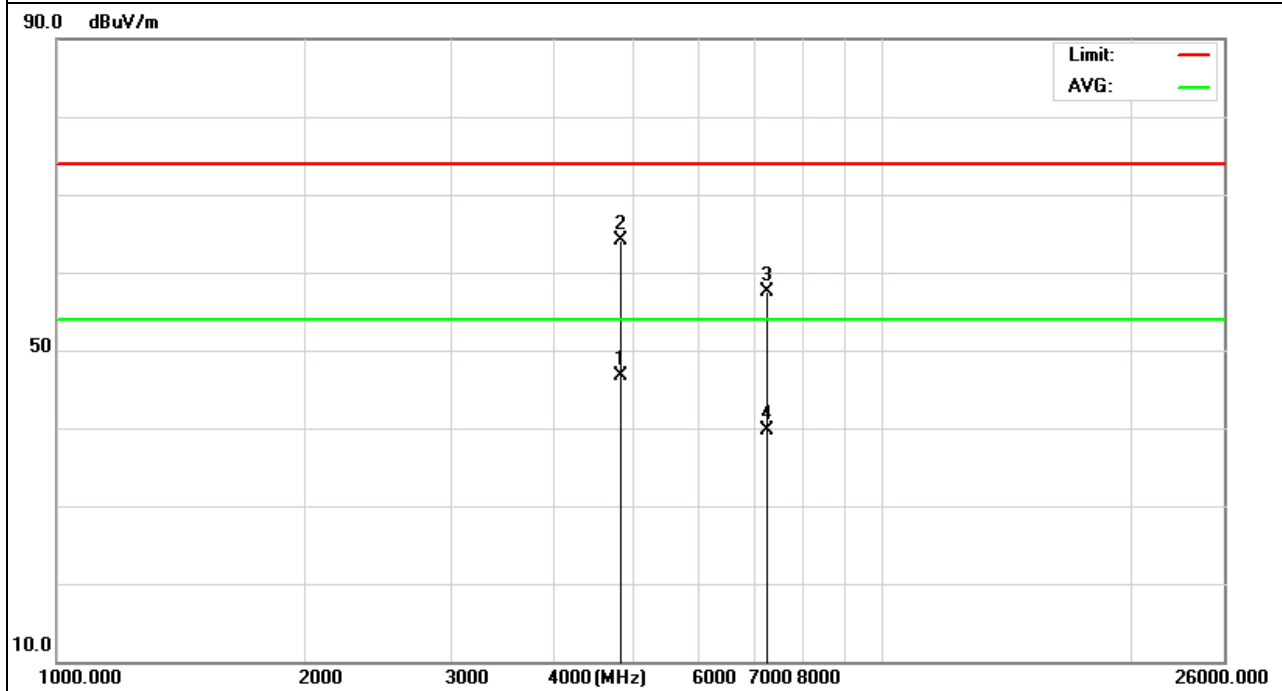


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.128	36.23	10.44	46.67	54.00	-7.33	AVG
4824.213	53.68	10.44	64.12	74.00	-9.88	peak
7236.159	45.17	12.39	57.56	74.00	-16.44	peak
7236.219	27.23	12.39	39.62	54.00	-14.38	AVG

Remark:

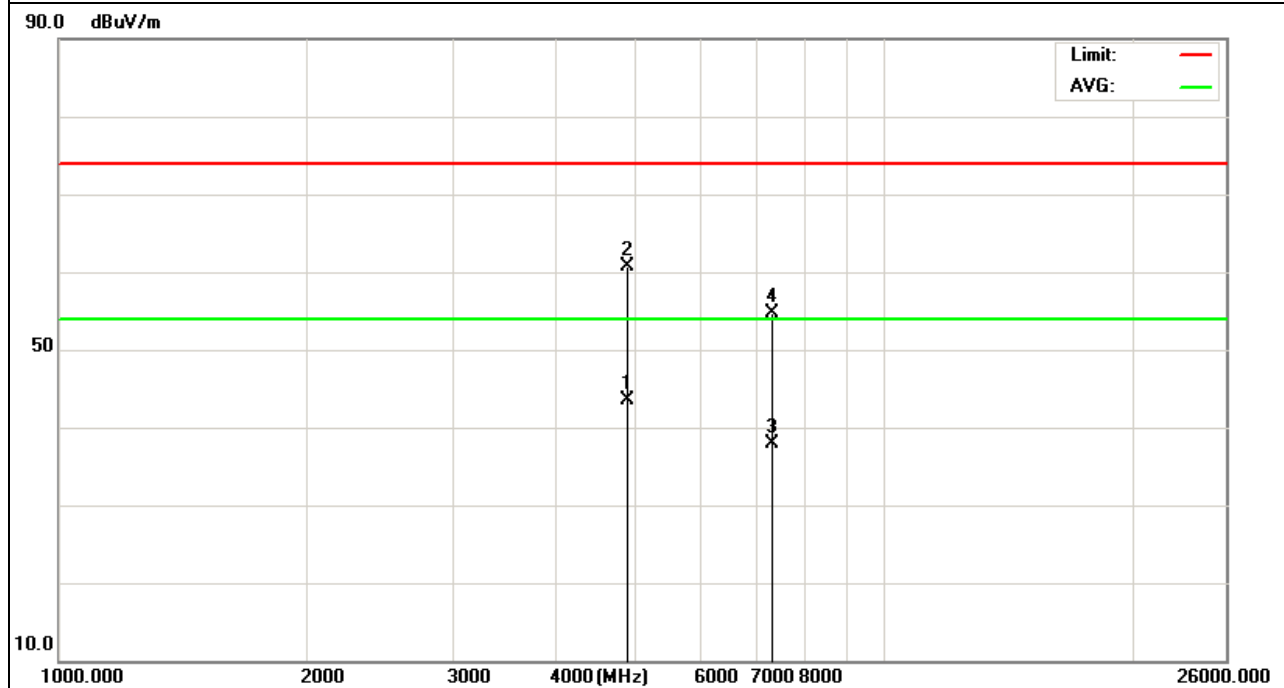
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.158	33.12	10.40	43.52	54.00	-10.48	AVG
4874.258	50.23	10.40	60.63	74.00	-13.37	peak
7311.125	25.13	12.75	37.88	54.00	-16.12	AVG
7311.235	42.02	12.75	54.77	74.00	-19.23	peak

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

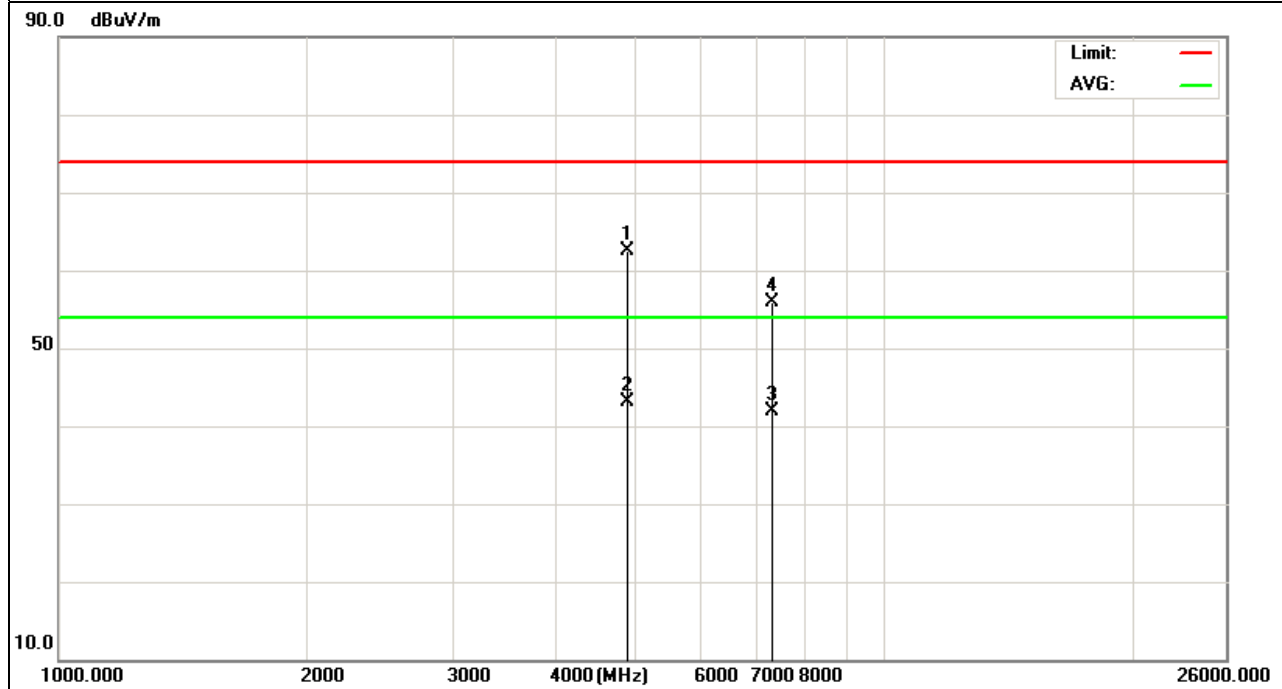


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.144	52.12	10.40	62.52	74.00	-11.48	peak
4874.156	32.65	10.40	43.05	54.00	-10.95	AVG
7311.135	29.13	12.75	41.88	54.00	-12.12	AVG
7311.147	43.12	12.75	55.87	74.00	-18.13	peak

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz

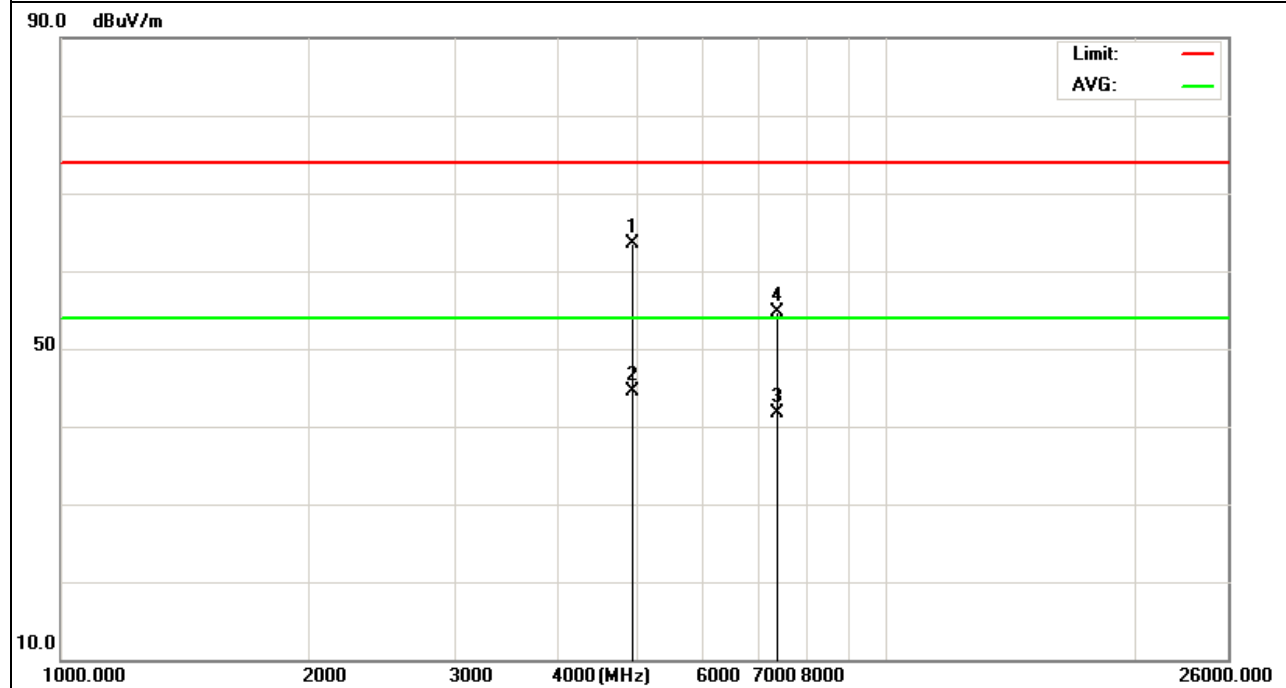


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.123	53.21	10.39	63.60	74.00	-10.40	peak
4924.220	34.03	10.39	44.42	54.00	-9.58	AVG
7386.121	29.12	12.68	41.80	54.00	-12.20	AVG
7386.145	42.03	12.68	54.71	74.00	-19.29	peak

Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz

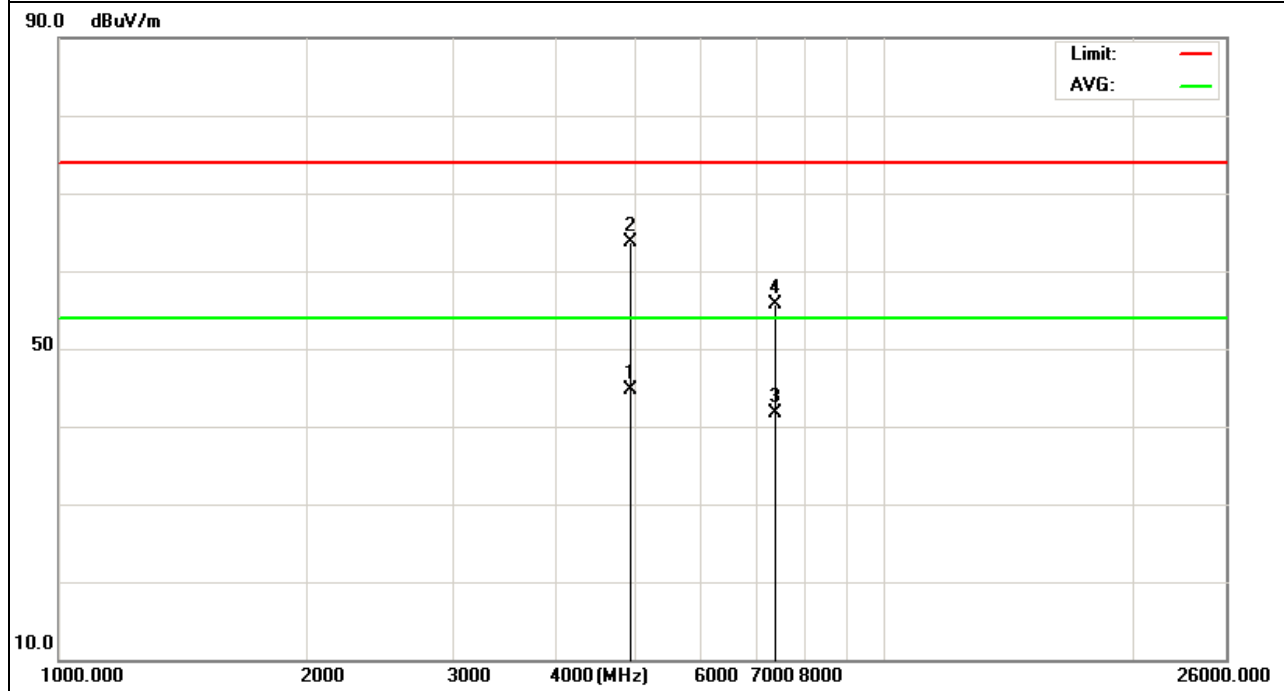


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.135	34.26	10.39	44.65	54.00	-9.35	AVG
4924.147	53.26	10.39	63.65	74.00	-10.35	peak
7386.126	29.12	12.68	41.80	54.00	-12.20	AVG
7386.142	43.12	12.68	55.80	74.00	-18.20	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

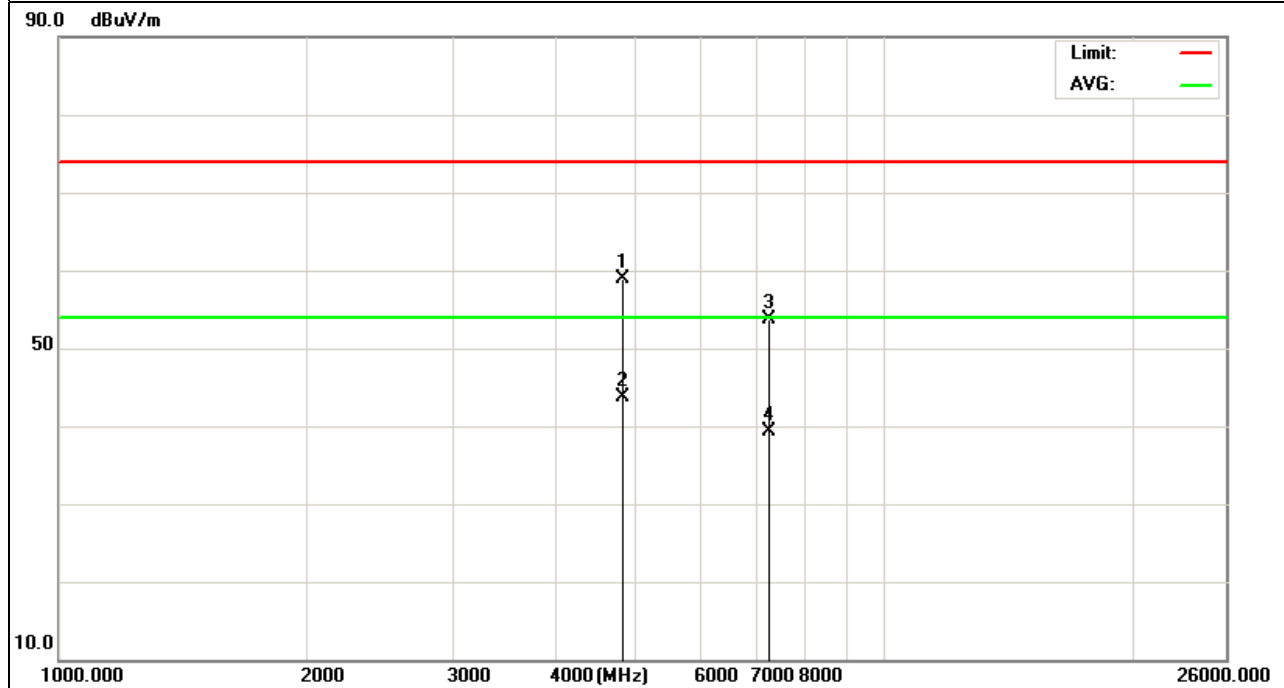


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824.156	48.54	10.44	58.98	74.00	-15.02	peak
4824.156	33.31	10.44	43.75	54.00	-10.25	AVG
7236.143	41.23	12.39	53.62	74.00	-20.38	peak
7236.143	26.98	12.39	39.37	54.00	-14.63	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

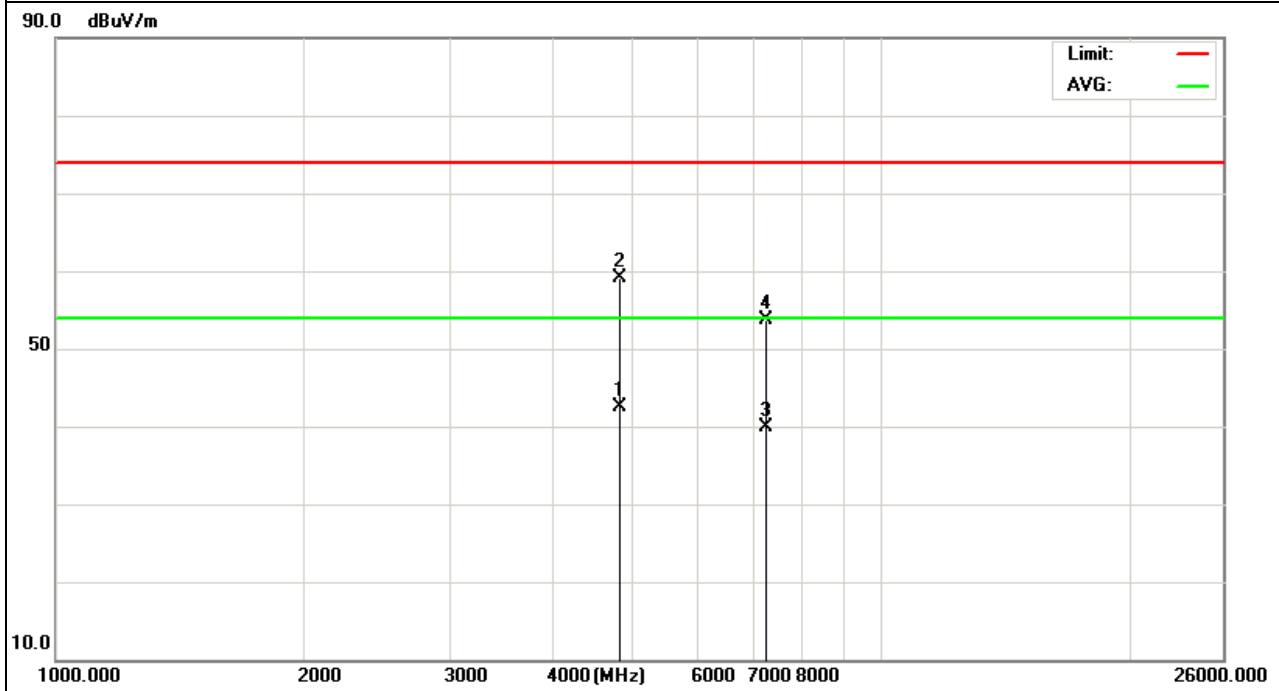


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.124	32.16	10.44	42.60	54.00	-11.40	AVG
4824.155	48.62	10.44	59.06	74.00	-14.94	peak
7236.148	27.56	12.39	39.95	54.00	-14.05	AVG
7236.227	41.26	12.39	53.65	74.00	-20.35	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

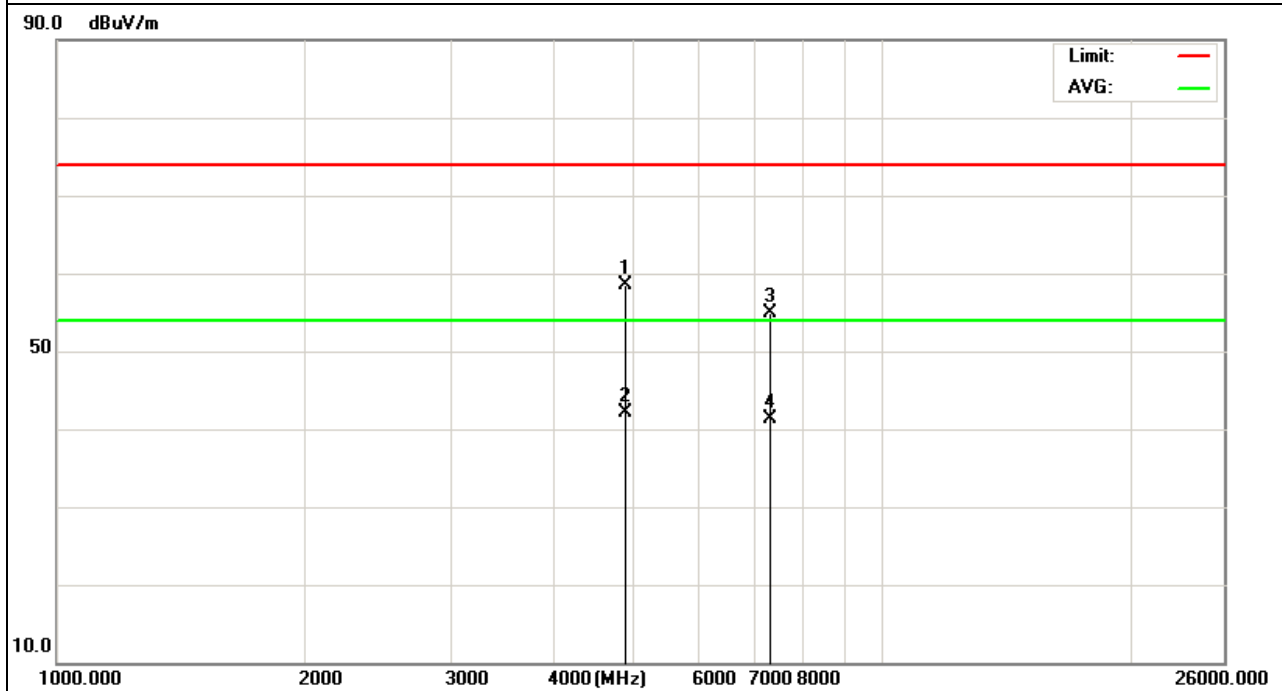


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.151	48.12	10.40	58.52	74.00	-15.48	peak
4874.196	31.70	10.40	42.10	54.00	-11.90	AVG
7311.138	42.23	12.75	54.98	74.00	-19.02	peak
7311.218	28.46	12.75	41.21	54.00	-12.79	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

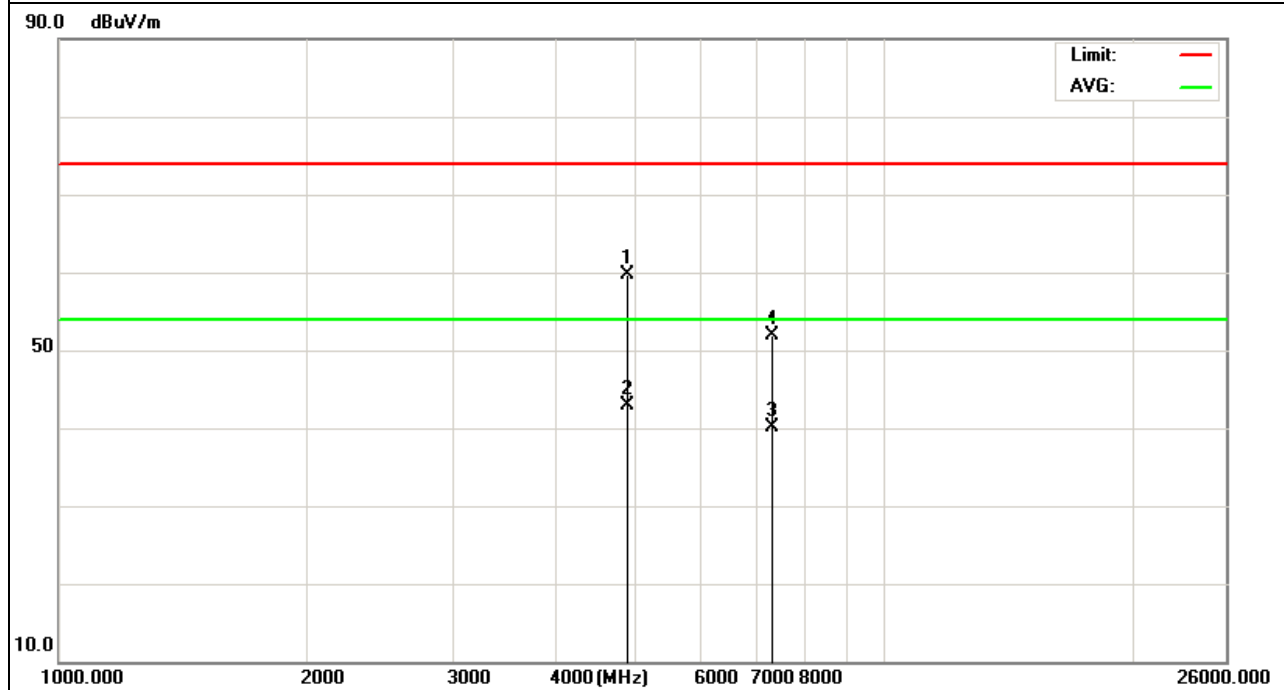


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.141	49.25	10.40	59.65	74.00	-14.35	peak
4874.156	32.56	10.40	42.96	54.00	-11.04	AVG
7311.132	27.35	12.75	40.10	54.00	-13.90	AVG
7311.176	39.25	12.75	52.00	74.00	-22.00	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

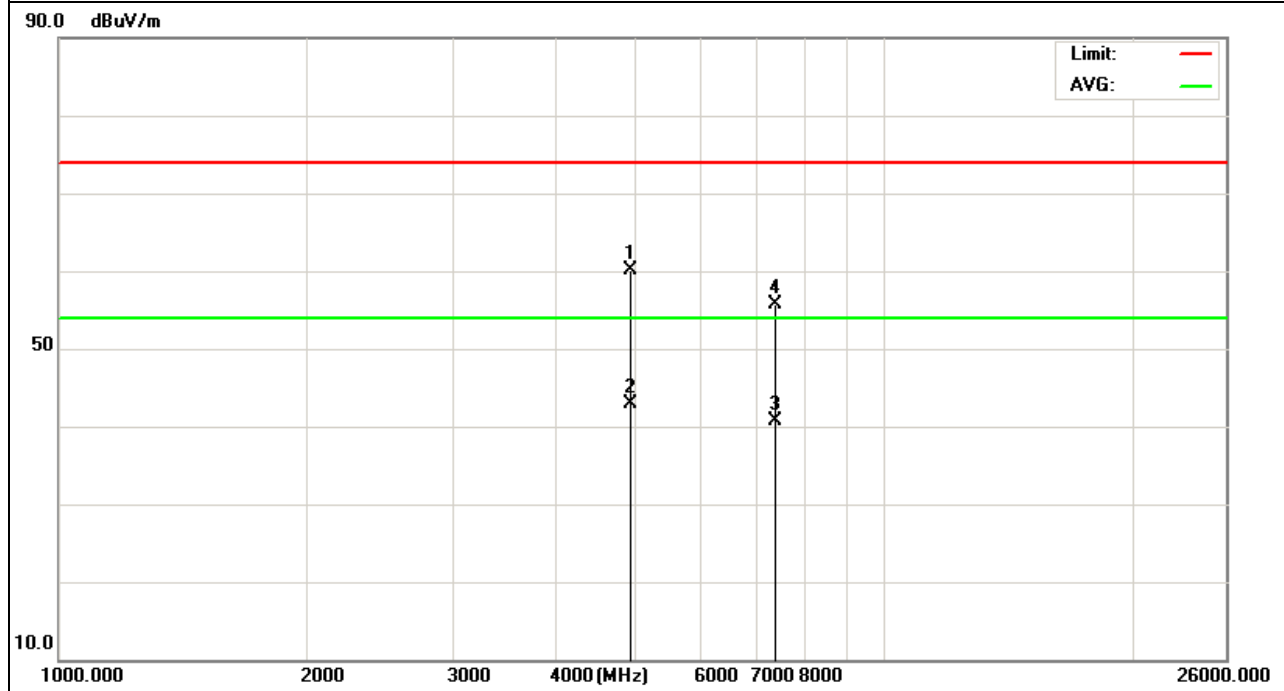


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH11 (802.11g Mode)/2462	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.138	49.69	10.39	60.08	74.00	-13.92	peak
4924.156	32.56	10.39	42.95	54.00	-11.05	AVG
7386.121	28.12	12.68	40.80	54.00	-13.20	AVG
7386.149	43.12	12.68	55.80	74.00	-18.20	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

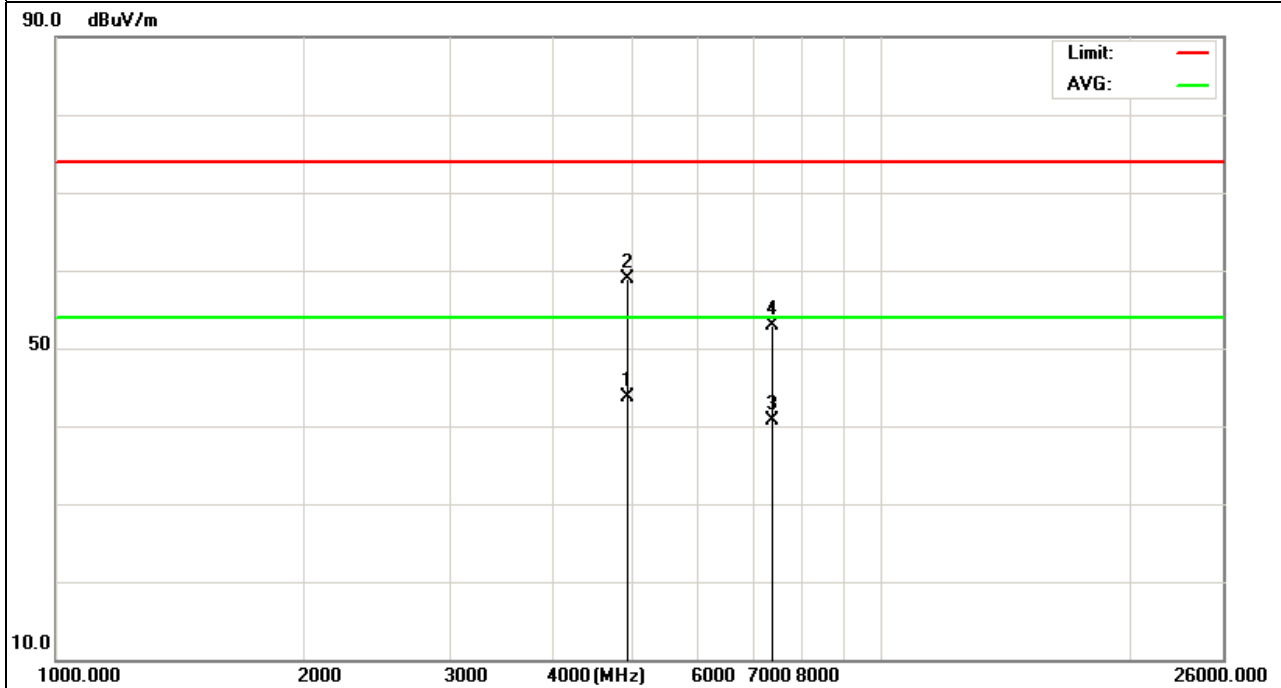


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH11(802.11g Mode)/2462	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.157	33.25	10.39	43.64	54.00	-10.36	AVG
4924.158	48.56	10.39	58.95	74.00	-15.05	peak
7386.132	28.12	12.68	40.80	54.00	-13.20	AVG
7386.231	40.14	12.68	52.82	74.00	-21.18	peak

Remark:

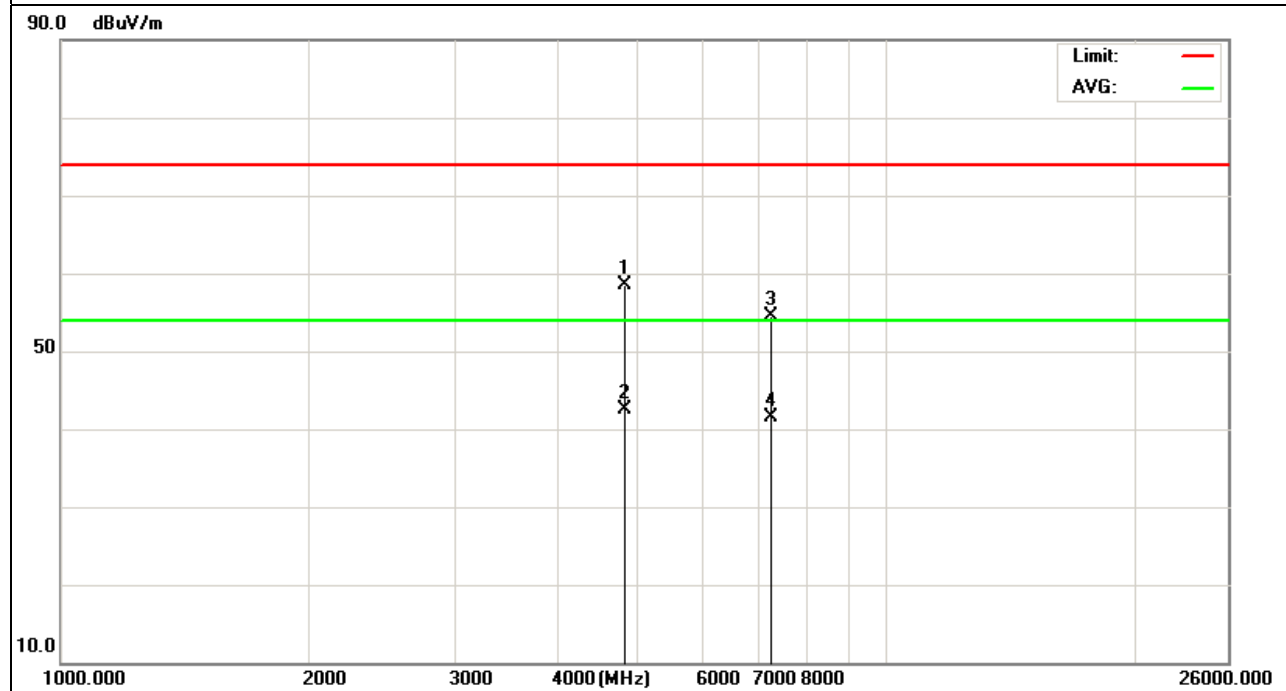
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH1(802.11n Mode)/2412	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.123	48.12	10.44	58.56	74.00	-15.44	peak
4824.142	32.12	10.44	42.56	54.00	-11.44	AVG
7236.215	42.12	12.39	54.51	74.00	-19.49	peak
7236.126	29.12	12.39	41.51	54.00	-12.49	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

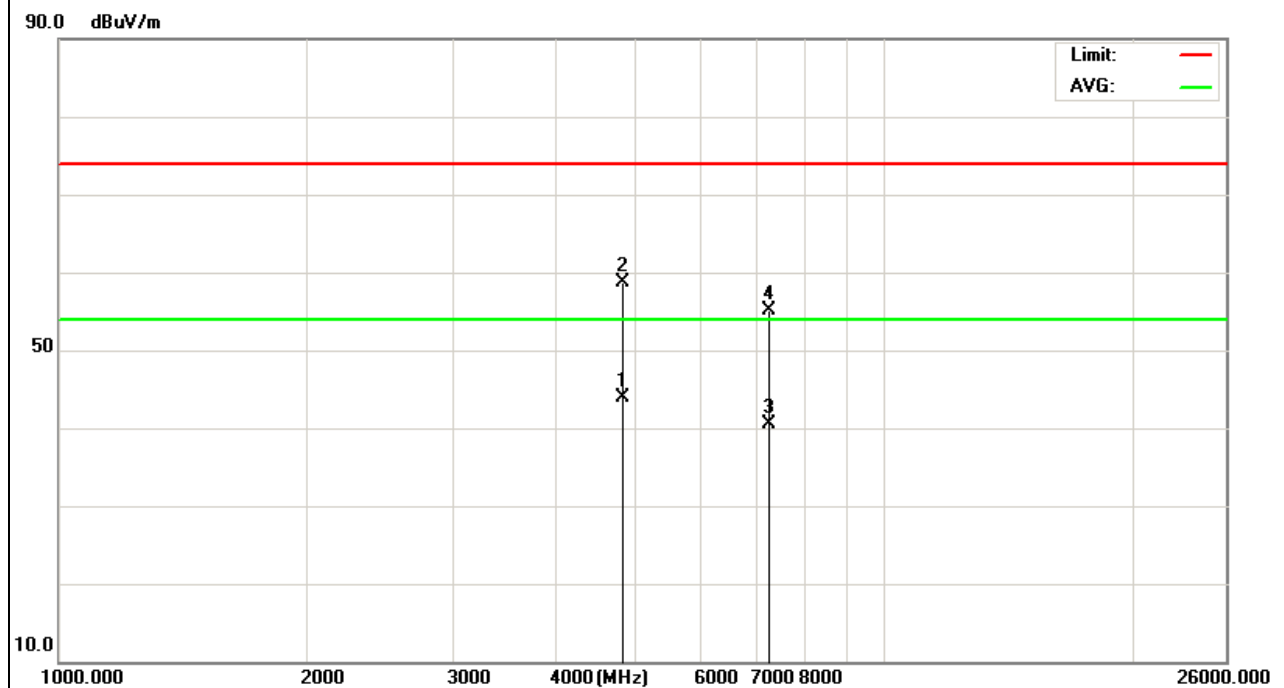


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH1(802.11n Mode)/2412	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.143	33.56	10.44	44.00	54.00	-10.00	AVG
4824.213	48.21	10.44	58.65	74.00	-15.35	peak
7236.140	28.14	12.39	40.53	54.00	-13.47	AVG
7236.158	42.78	12.39	55.17	74.00	-18.83	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

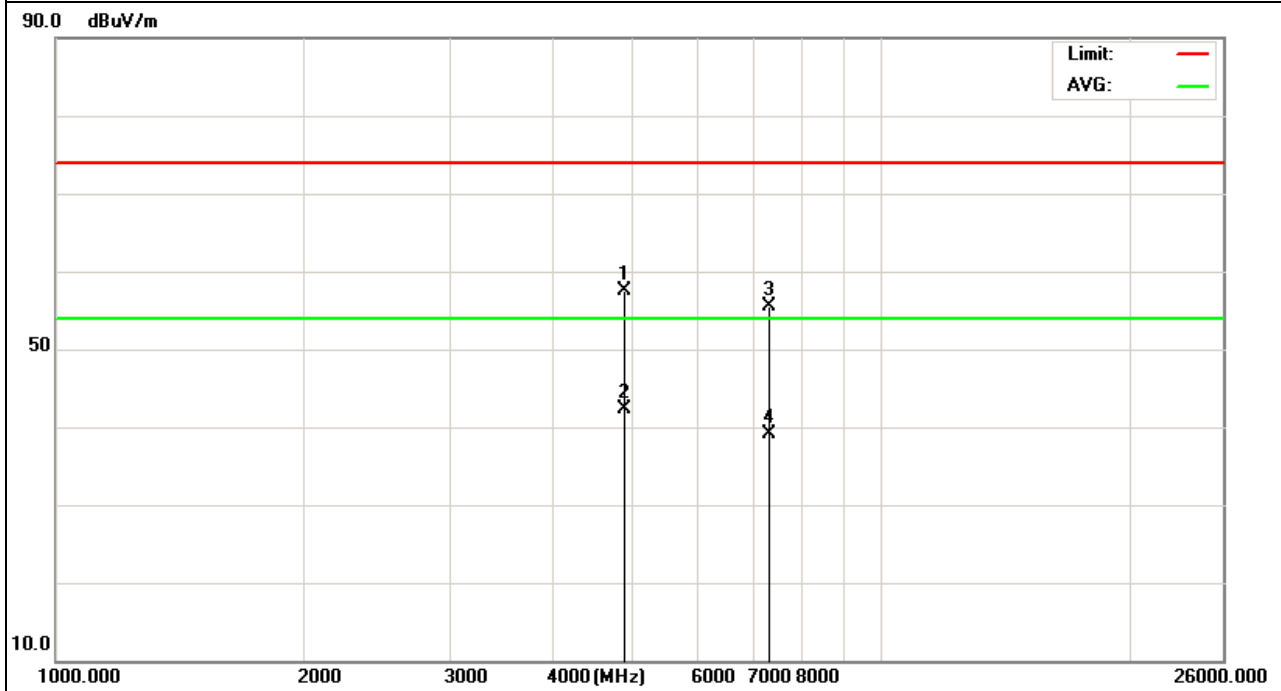


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH6(802.11n Mode)/2437	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.163	47.12	10.40	57.52	74.00	-16.48	peak
4874.163	31.85	10.40	42.25	54.00	-11.75	AVG
7311.165	42.76	12.75	55.51	74.00	-18.49	peak
7311.165	26.45	12.75	39.20	54.00	-14.80	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

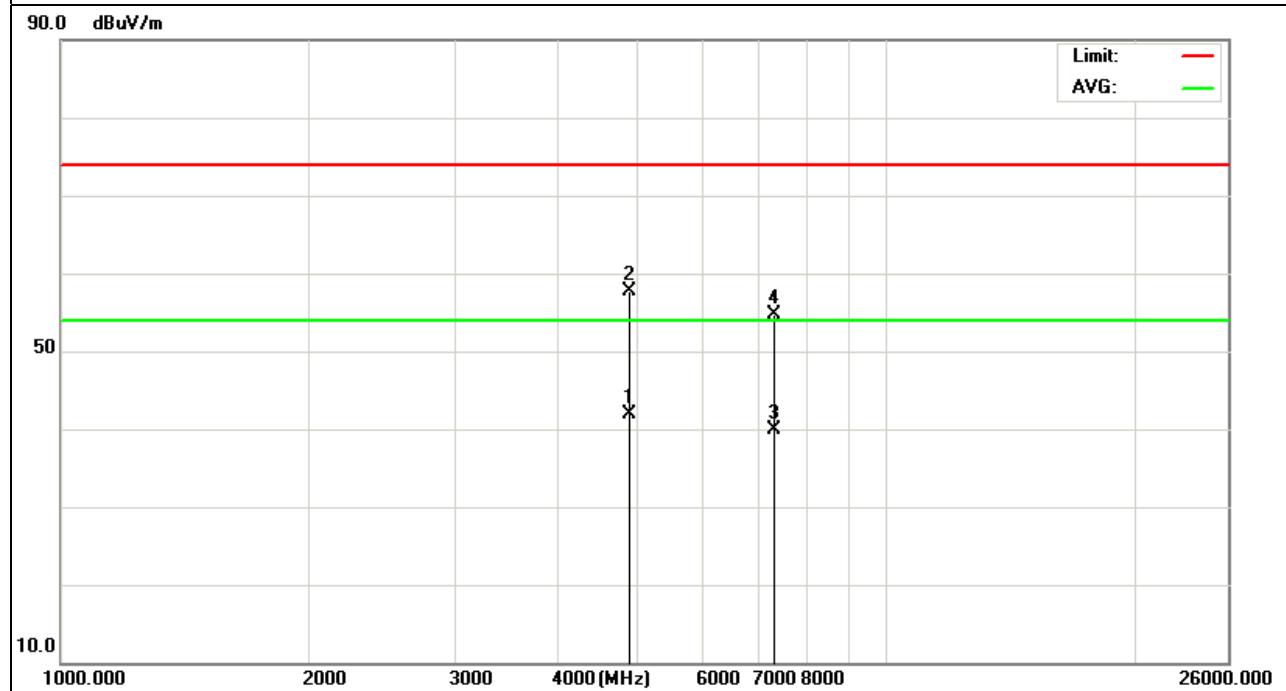


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH6(802.11n Mode)/2437	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.162	31.46	10.40	41.86	54.00	-12.14	AVG
4874.175	47.26	10.40	57.66	74.00	-16.34	peak
7311.127	27.16	12.75	39.91	54.00	-14.09	AVG
7311.149	42.01	12.75	54.76	74.00	-19.24	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

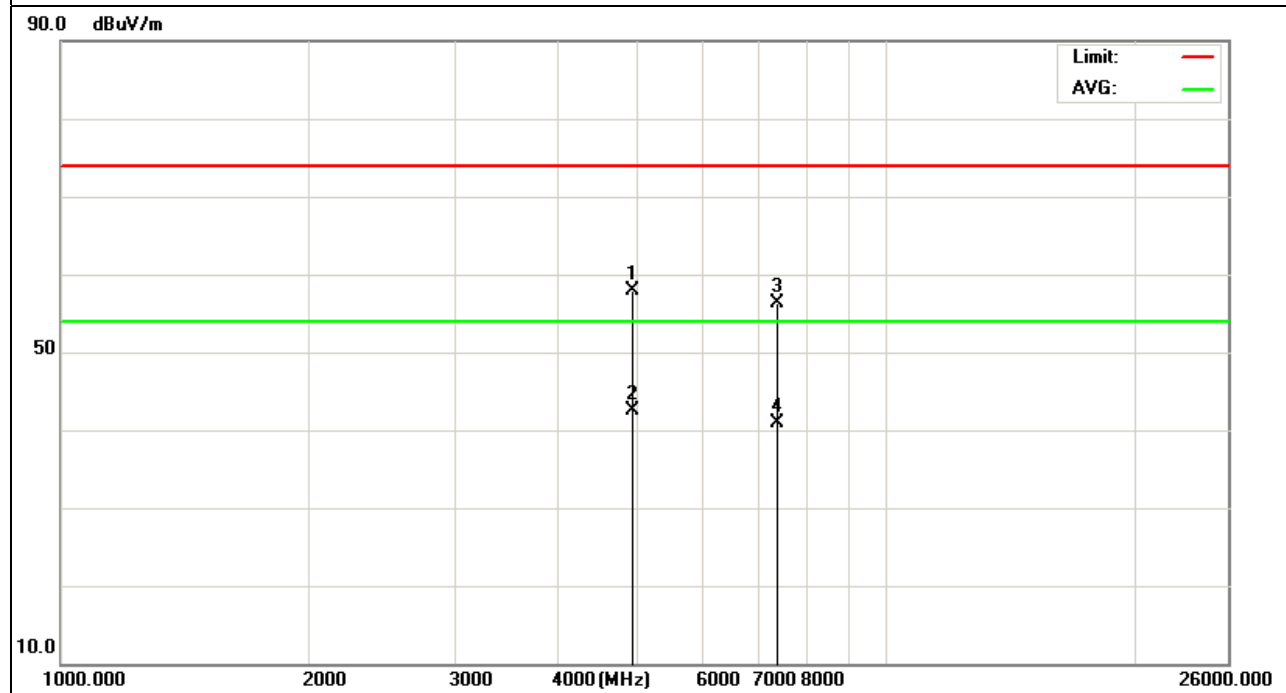


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH11(802.11n Mode)/2462	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.155	47.52	10.39	57.91	74.00	-16.09	peak
4924.155	32.15	10.39	42.54	54.00	-11.46	AVG
7386.173	43.54	12.68	56.22	74.00	-17.78	peak
7386.173	28.16	12.68	40.84	54.00	-13.16	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

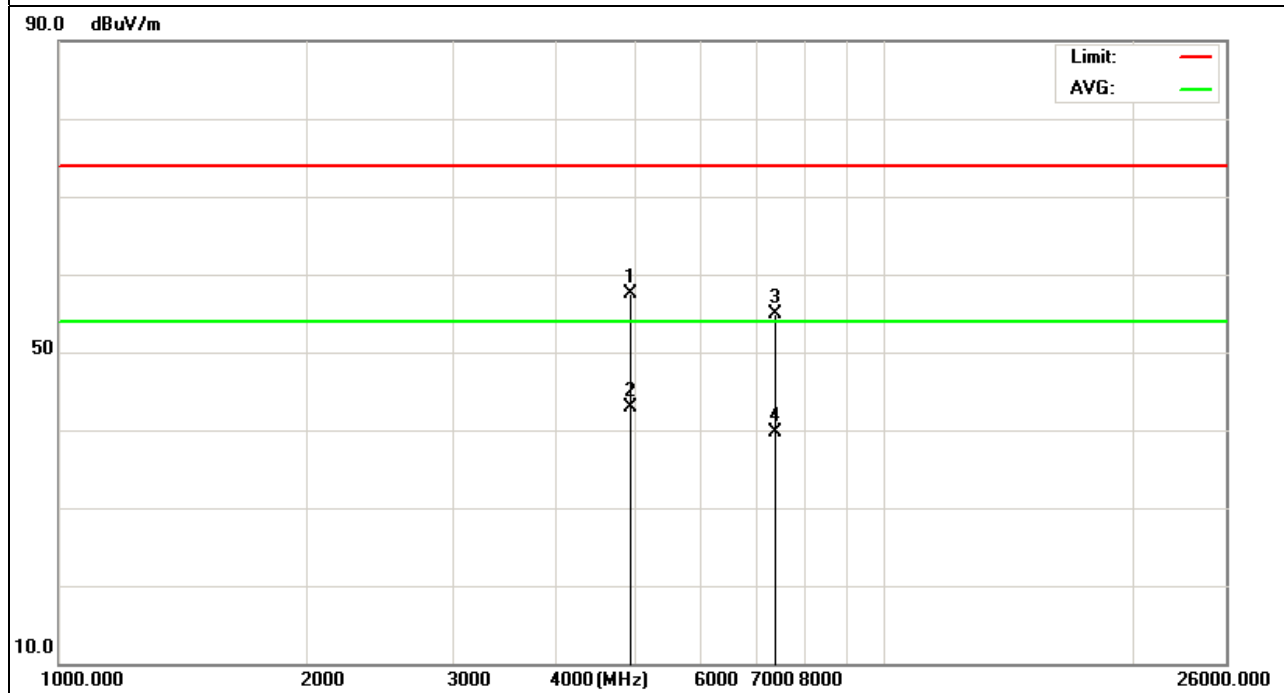


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH11(802.11n Mode)/2462	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.141	47.12	10.39	57.51	74.00	-16.49	peak
4924.141	32.43	10.39	42.82	54.00	-11.18	AVG
7386.189	42.15	12.68	54.83	74.00	-19.17	peak
7386.189	26.98	12.68	39.66	54.00	-14.34	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

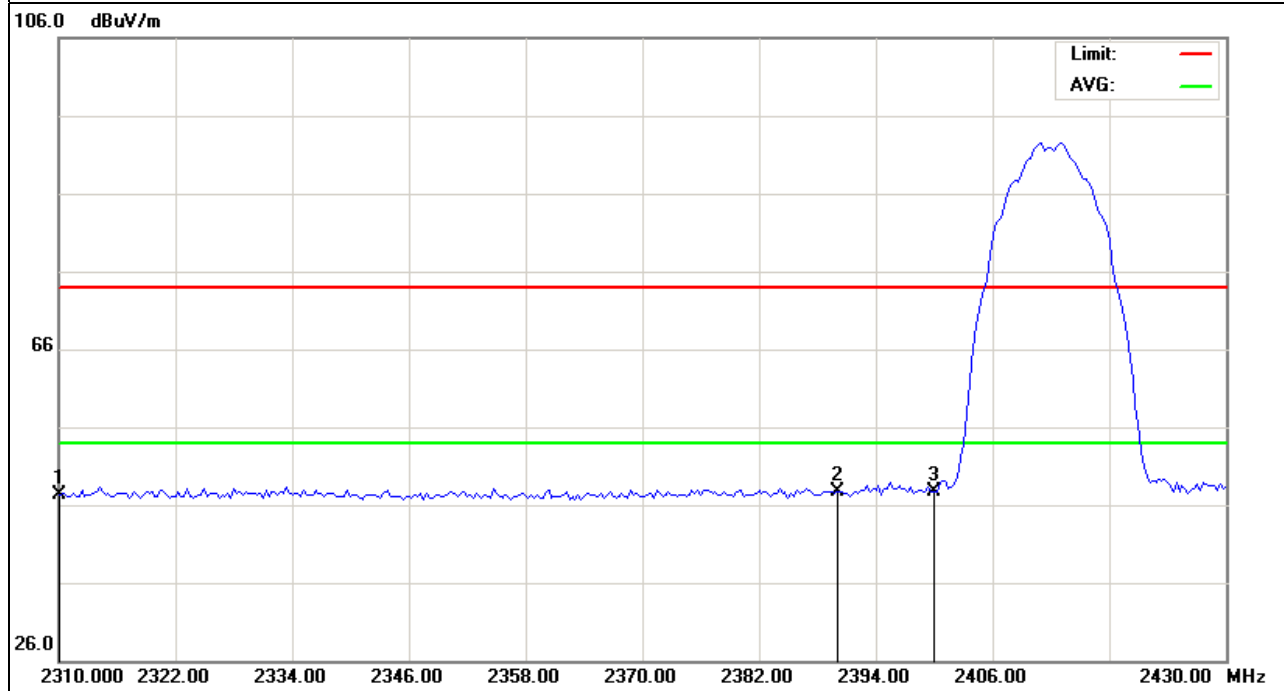


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH1(802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.000	60.15	-12.89	47.26	74.00	-26.74	peak
2390.000	60.70	-13.06	47.64	74.00	-26.36	peak
2400.000	60.73	-12.99	47.74	74.00	-26.26	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

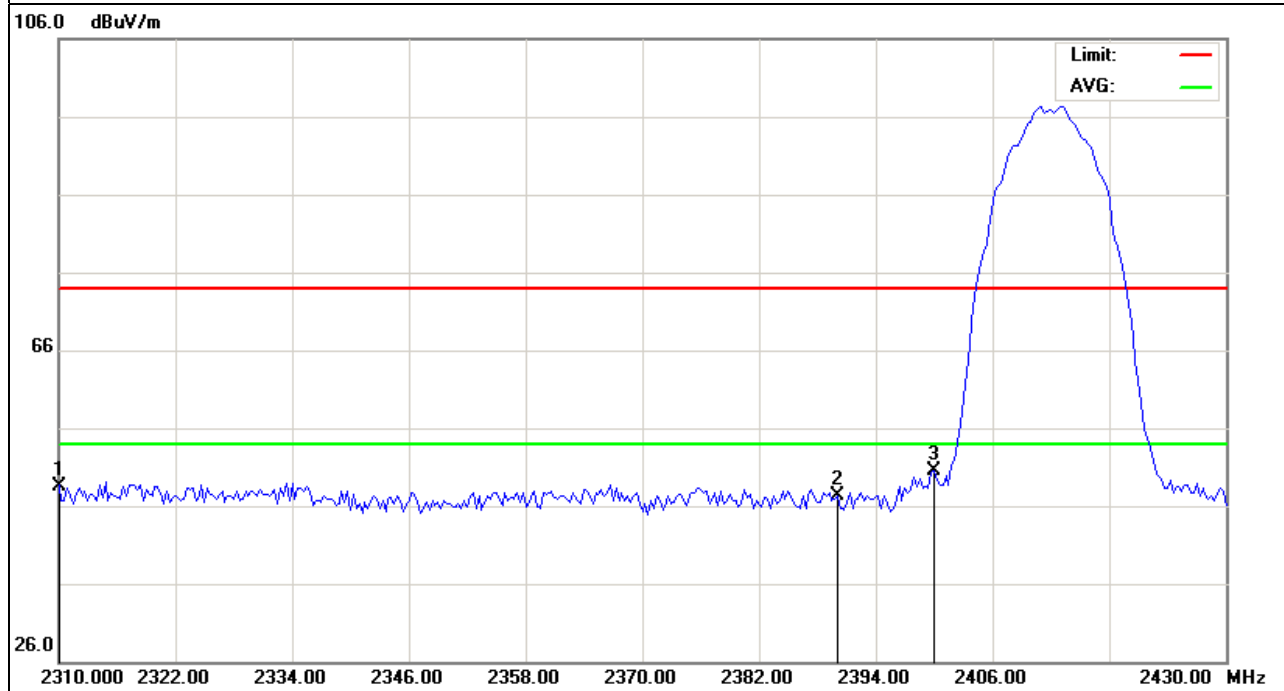


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH1(802.11b Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.000	61.49	-12.89	48.60	74.00	-25.40	peak
2390.000	60.36	-13.06	47.30	74.00	-26.70	peak
2400.000	63.49	-12.99	50.50	74.00	-23.50	peak

Remark:

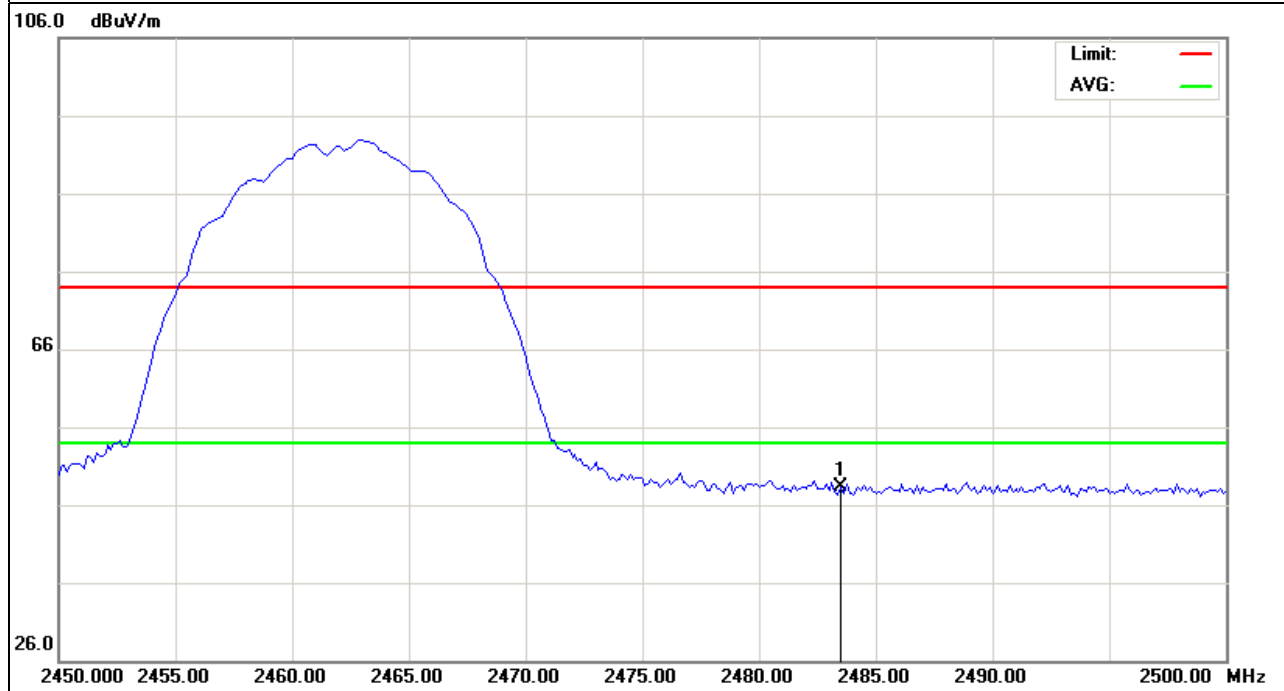
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH11(802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.500	61.17	-12.78	48.39	74.00	-25.61	peak

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

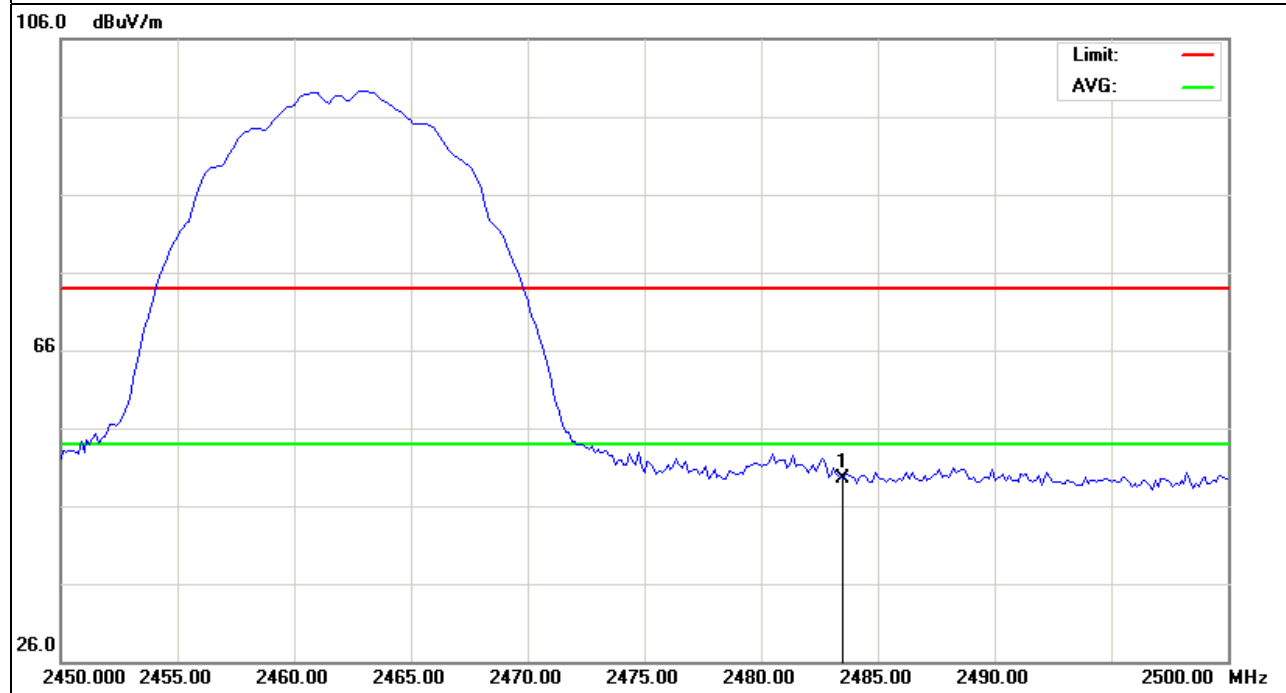


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH11(802.11b Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.500	62.31	-12.78	49.53	74.00	-24.47	peak

Remark:

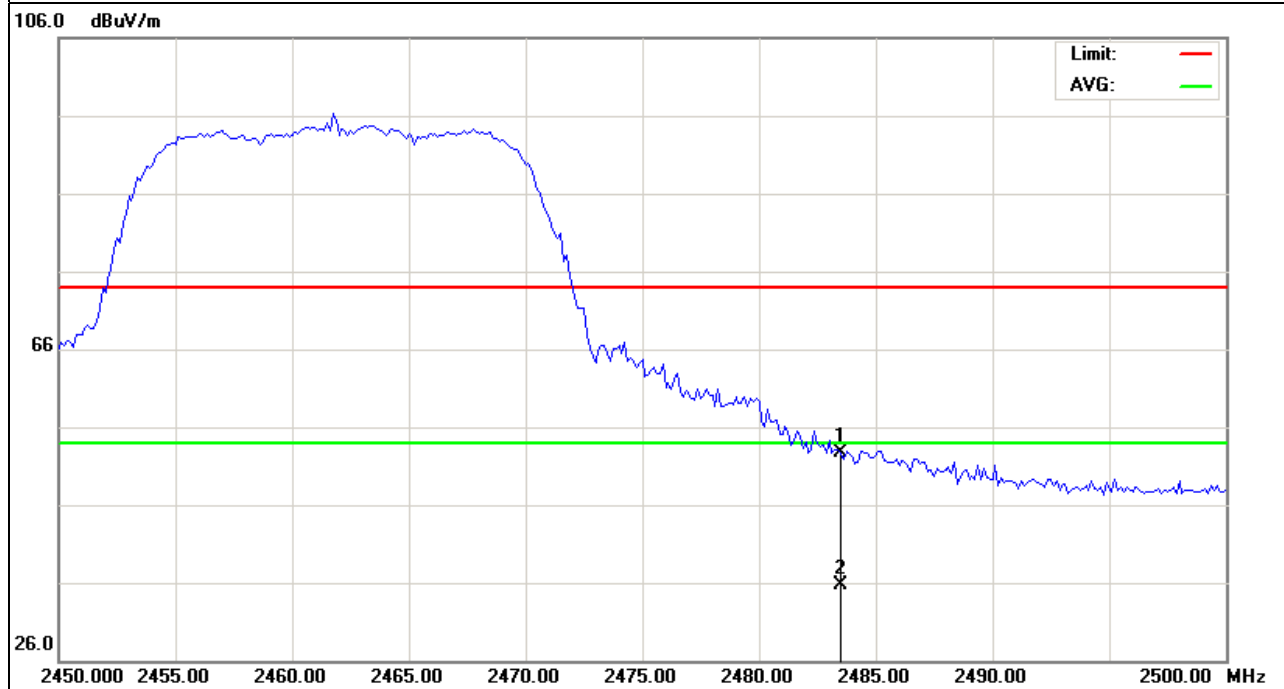
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH1(802.11g Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.500	65.47	-12.78	52.69	74.00	-21.31	peak
2483.500	48.56	-12.78	35.78	54.00	-18.22	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

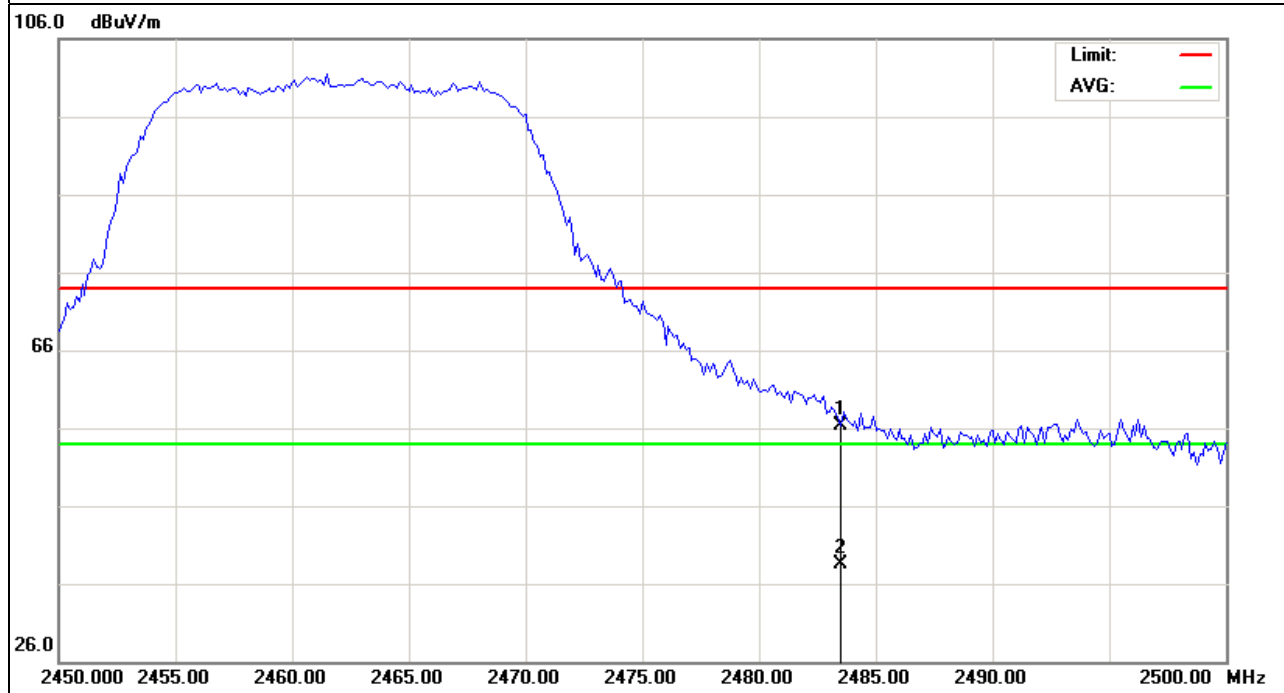


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH1(802.11gMode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.500	69.17	-12.78	56.39	74.00	-17.61	peak
2483.500	51.23	-12.78	38.45	54.00	-15.55	AVG

Remark:

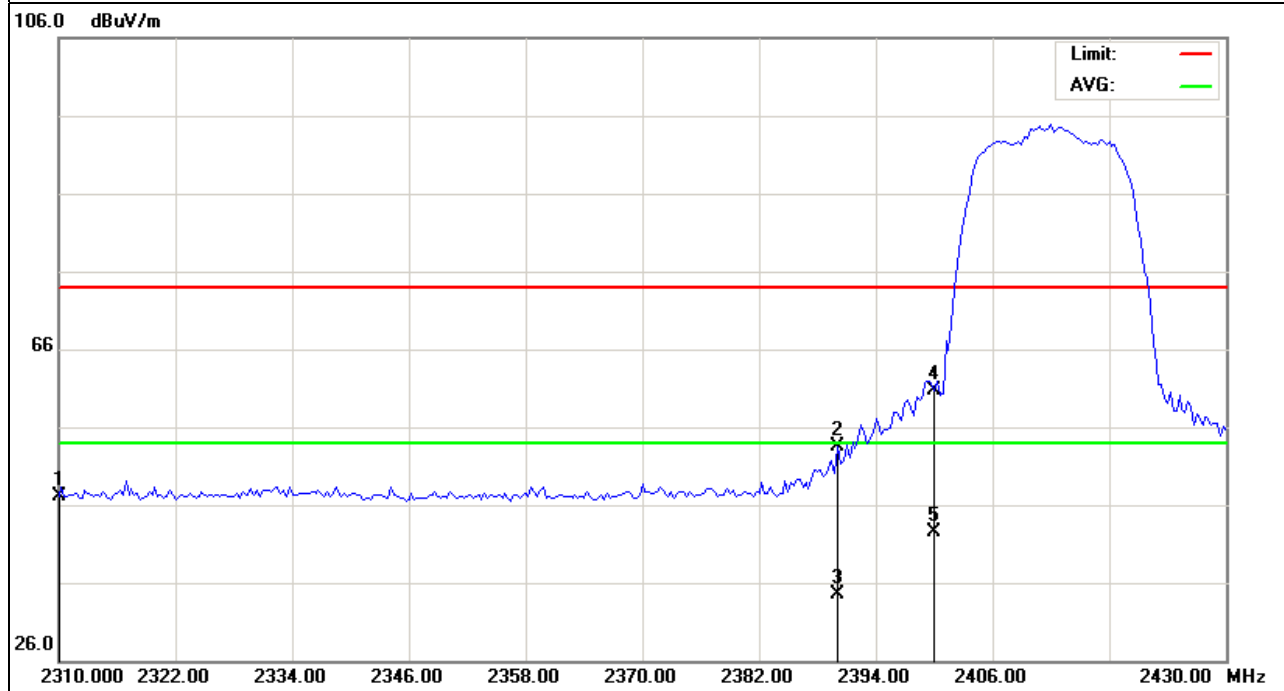
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH11(802.11g Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.000	60.09	-12.89	47.20	74.00	-26.80	peak
2390.000	66.59	-13.06	53.53	74.00	-20.47	peak
2390.000	47.65	-13.06	34.59	54.00	-19.41	AVG
2400.000	73.78	-12.99	60.79	74.00	-13.21	peak
2400.000	55.42	-12.99	42.43	54.00	-11.57	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

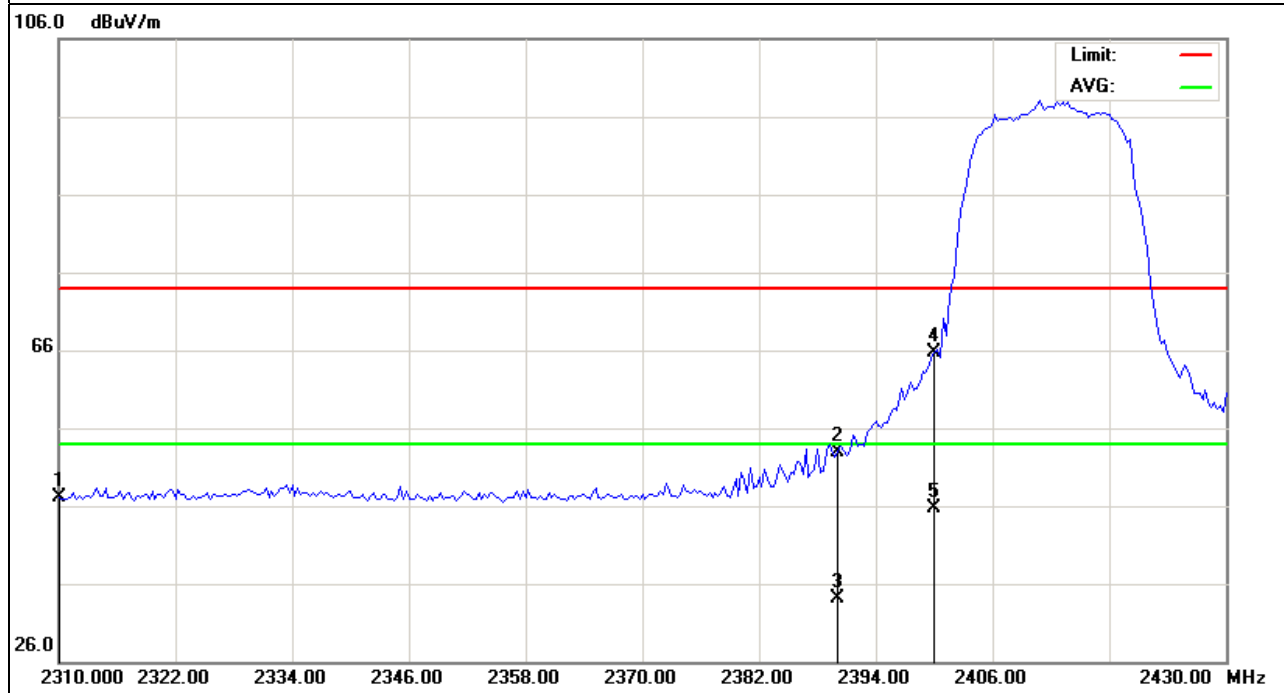


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH11(802.11g Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.000	60.05	-12.89	47.16	74.00	-26.84	peak
2390.000	66.05	-13.06	52.99	74.00	-21.01	peak
2390.000	47.25	-13.06	34.19	54.00	-19.81	AVG
2400.000	78.79	-12.99	65.80	74.00	-8.20	peak
2400.000	58.67	-12.99	45.68	54.00	-8.32	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

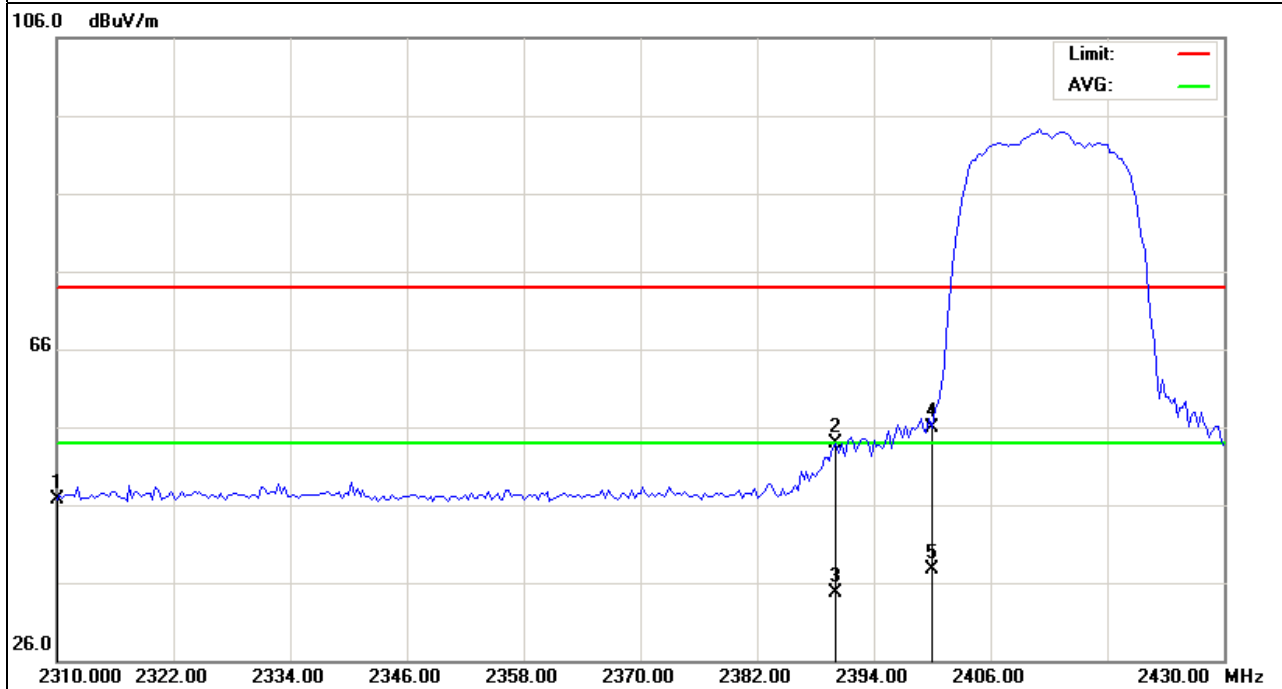


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH1(802.11N Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.000	59.54	-12.89	46.65	74.00	-27.35	peak
2390.000	66.94	-13.06	53.88	74.00	-20.12	peak
2390.000	47.85	-13.06	34.79	54.00	-19.21	AVG
2400.000	68.83	-12.99	55.84	74.00	-18.16	peak
2400.000	50.73	-12.99	37.74	54.00	-16.26	AVG

Remark:

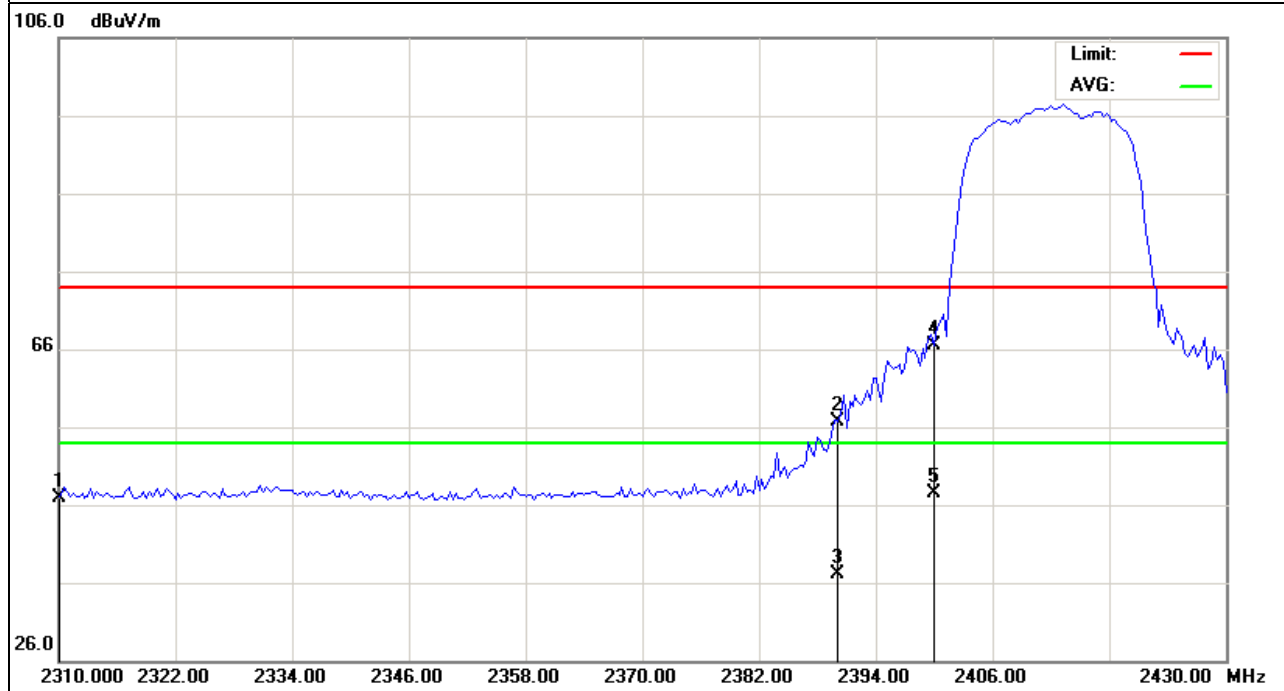
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH1(802.11N Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.000	59.89	-12.89	47.00	74.00	-27.00	peak
2390.000	69.85	-13.06	56.79	74.00	-17.21	peak
2390.000	50.12	-13.06	37.06	54.00	-16.94	AVG
2400.000	79.48	-12.99	66.49	74.00	-7.51	peak
2400.000	60.48	-12.99	47.49	54.00	-6.51	AVG

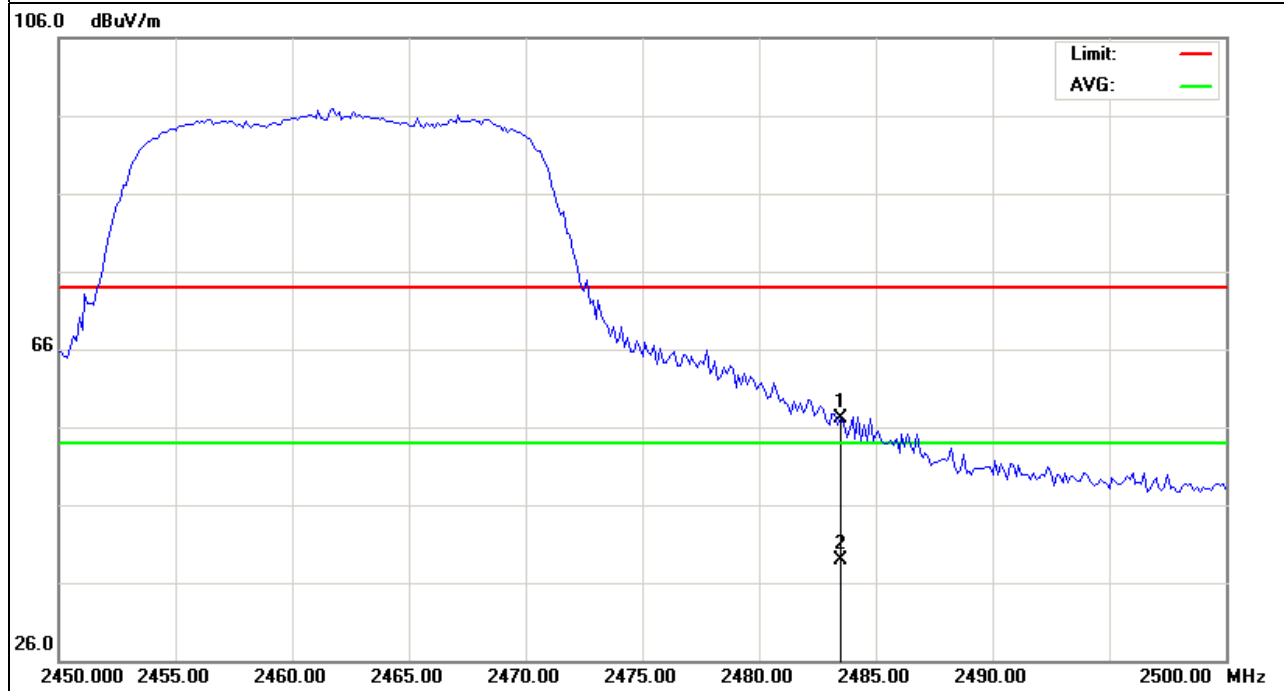
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH11(802.11N Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.500	69.87	-12.78	57.09	74.00	-16.91	peak
2483.500	51.64	-12.78	38.86	54.00	-15.14	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

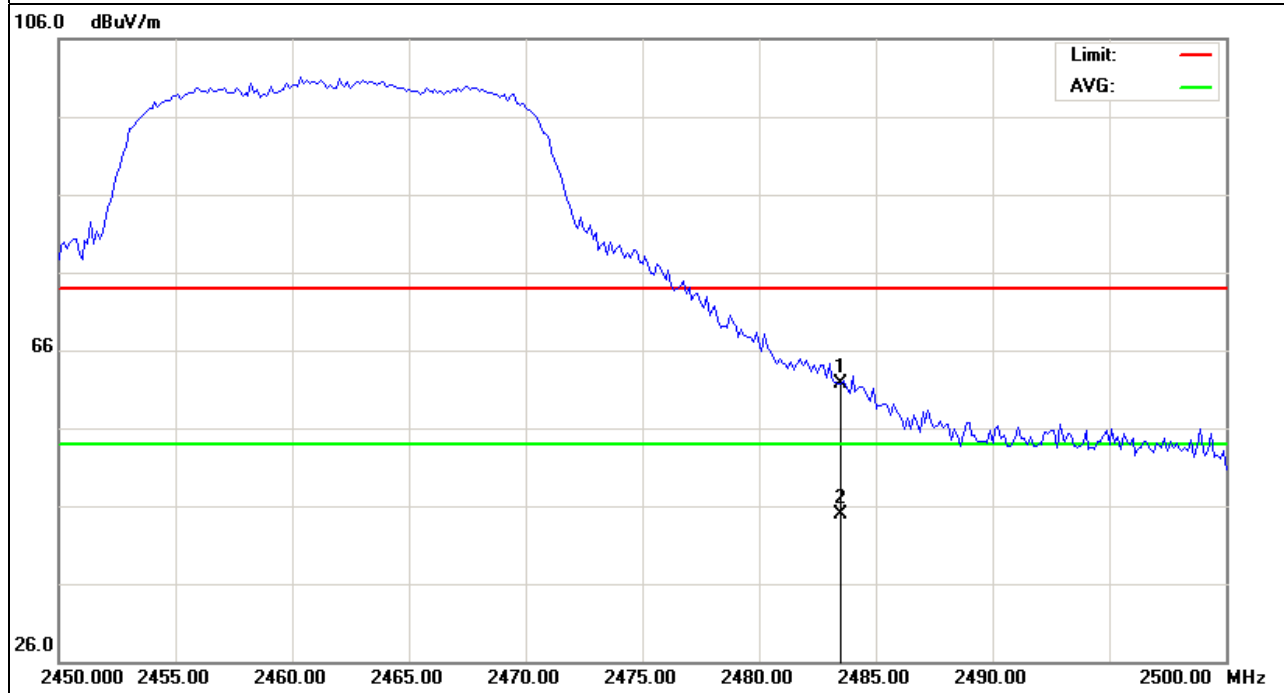


EUT :	MID	Model Name :	PF-M971
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH11(802.11N Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.500	74.57	-12.78	61.79	74.00	-12.21	peak
2483.500	57.61	-12.78	44.83	54.00	-9.17	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

4.1.1 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW ≥ 3 kHz.
4. Set the VBW $\geq 3 \times$ RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



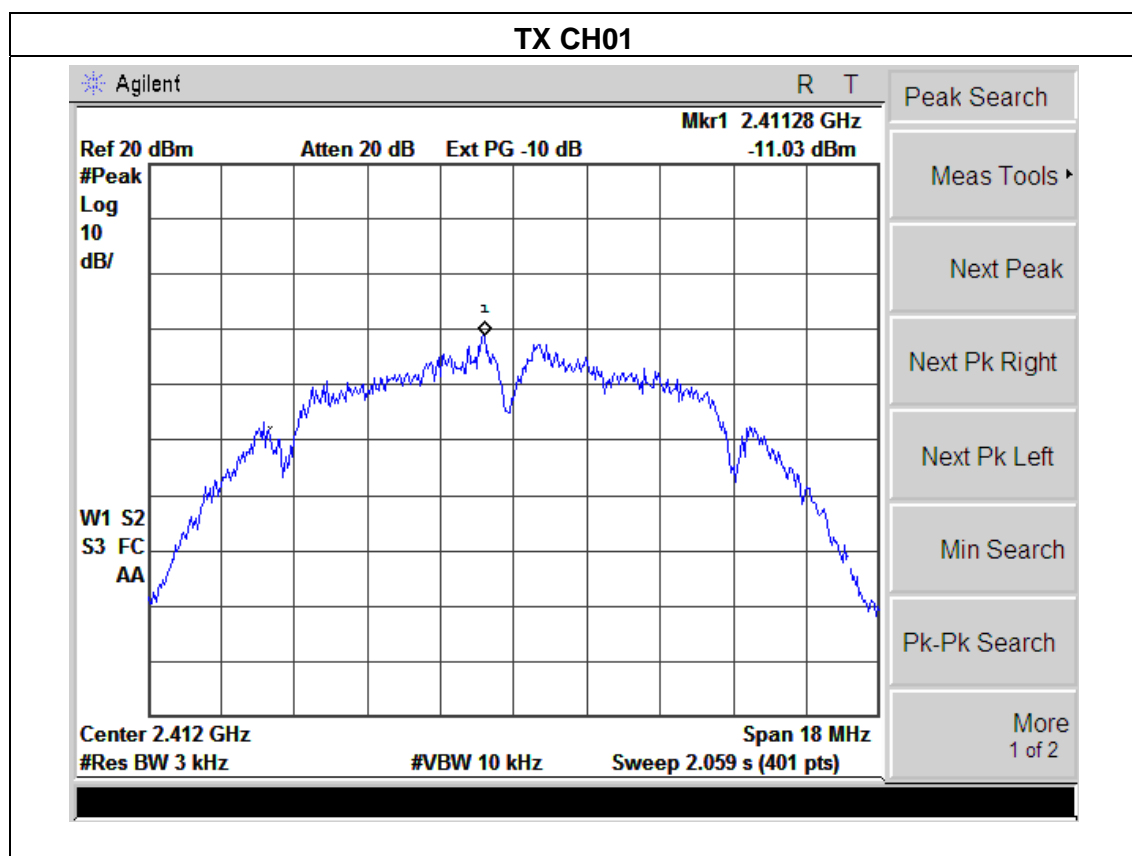
4.1.4 EUT OPERATION CONDITIONS

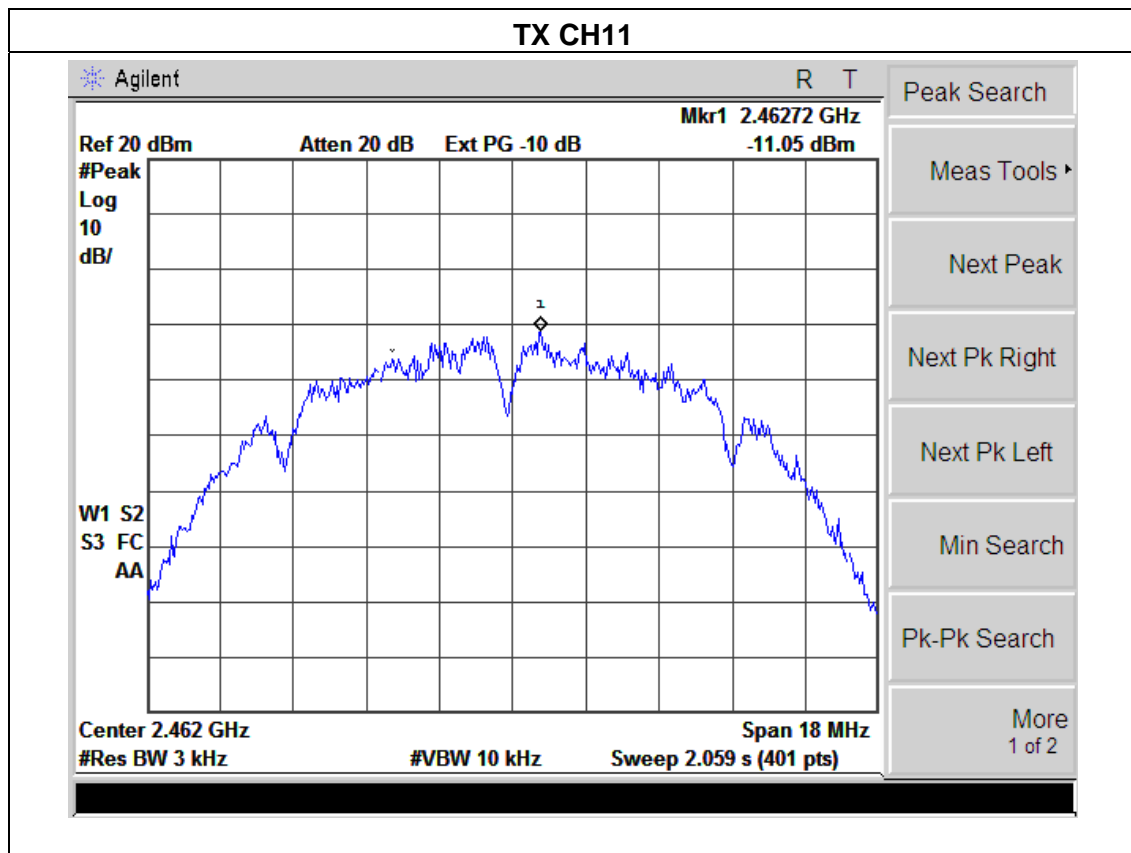
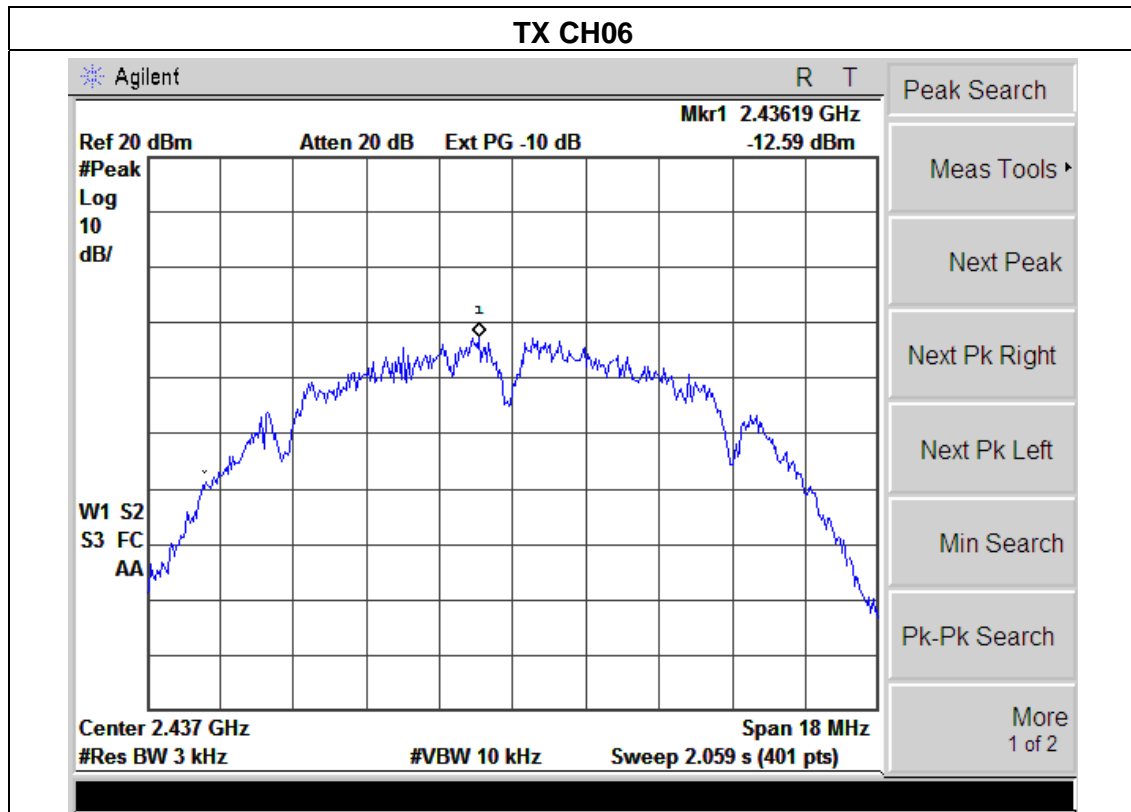
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

EUT :	MID	Model Name :	PF-M971
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b Mode /CH01, CH06, CH11		

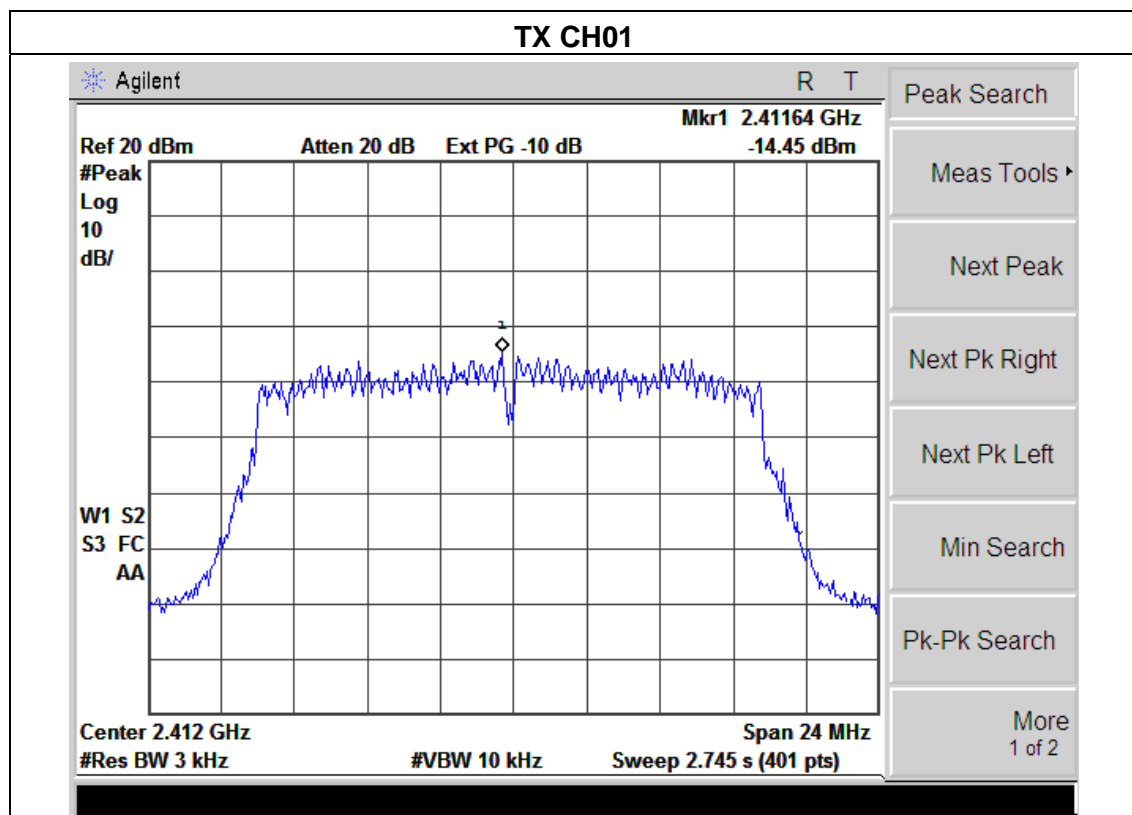
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-11.03	8	PASS
2437 MHz	-12.59	8	PASS
2462 MHz	-11.05	8	PASS

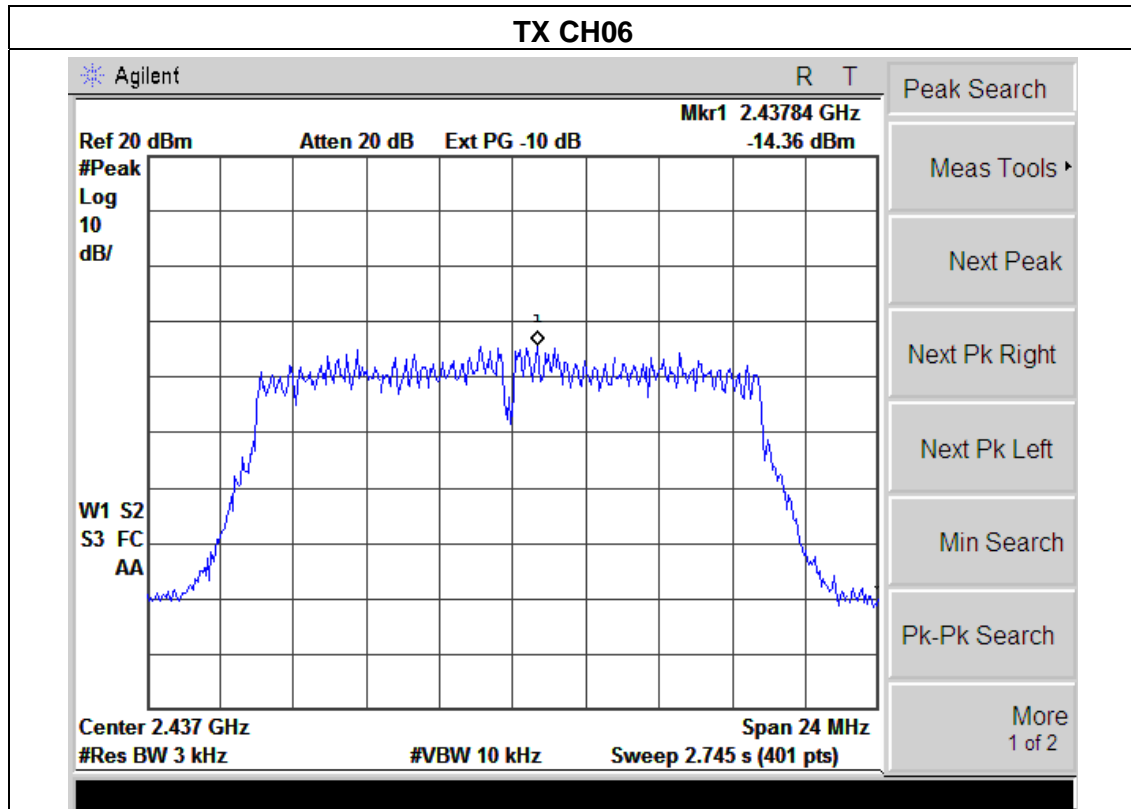




EUT :	MID	Model Name :	PF-M971
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX g Mode /CH01, CH06, CH11		

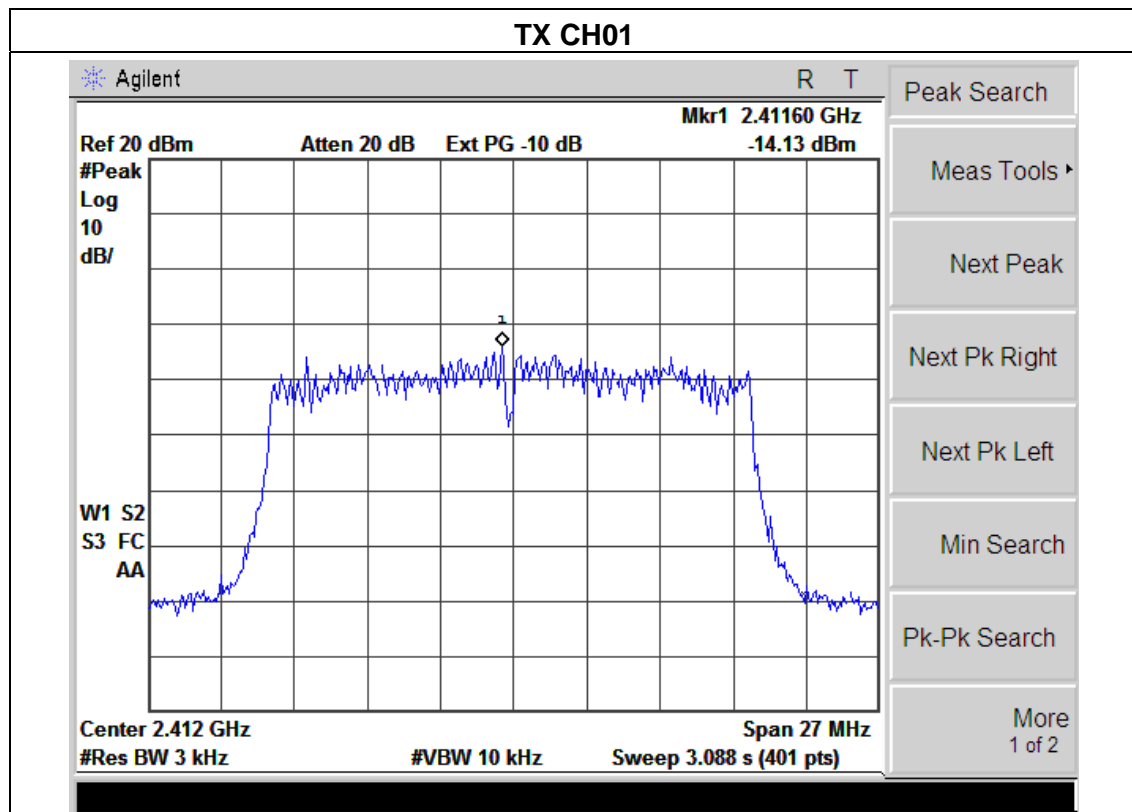
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-14.45	8	PASS
2437 MHz	-14.36	8	PASS
2462 MHz	-13.51	8	PASS

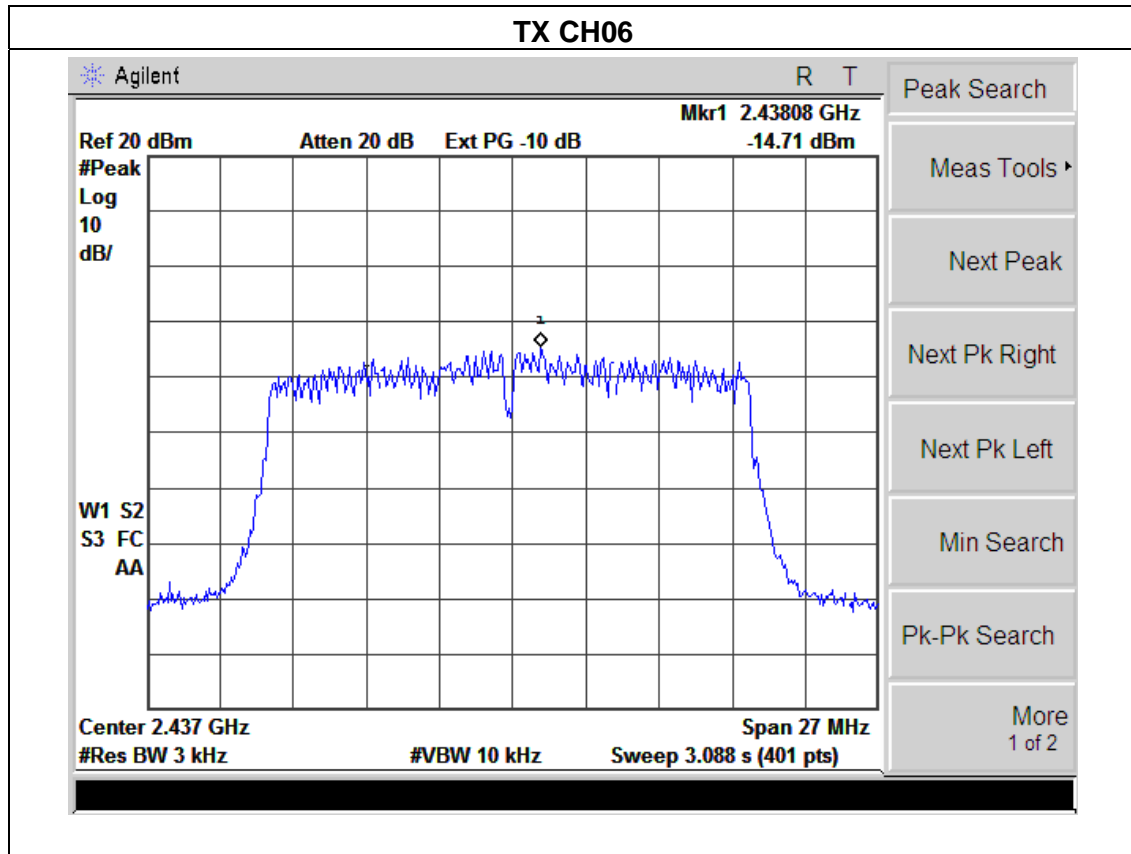




EUT :	MID	Model Name :	PF-M971
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode/CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-14.13	8	PASS
2437 MHz	-14.71	8	PASS
2462 MHz	-14.33	8	PASS





5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

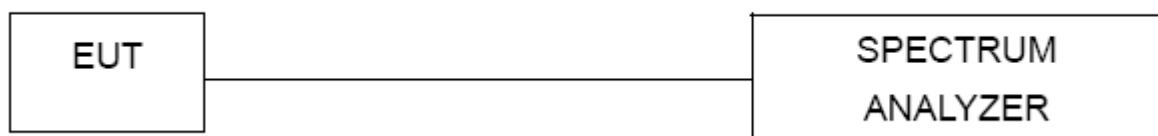
5.1.1 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



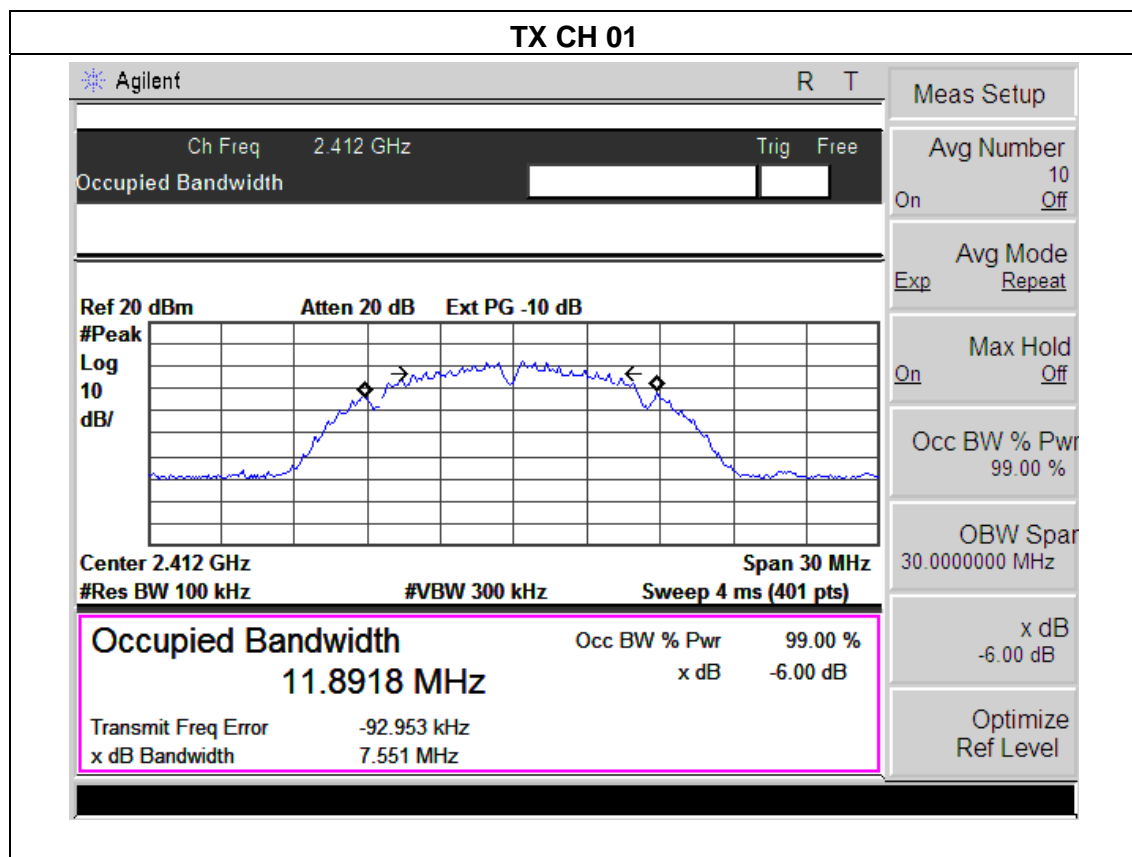
5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

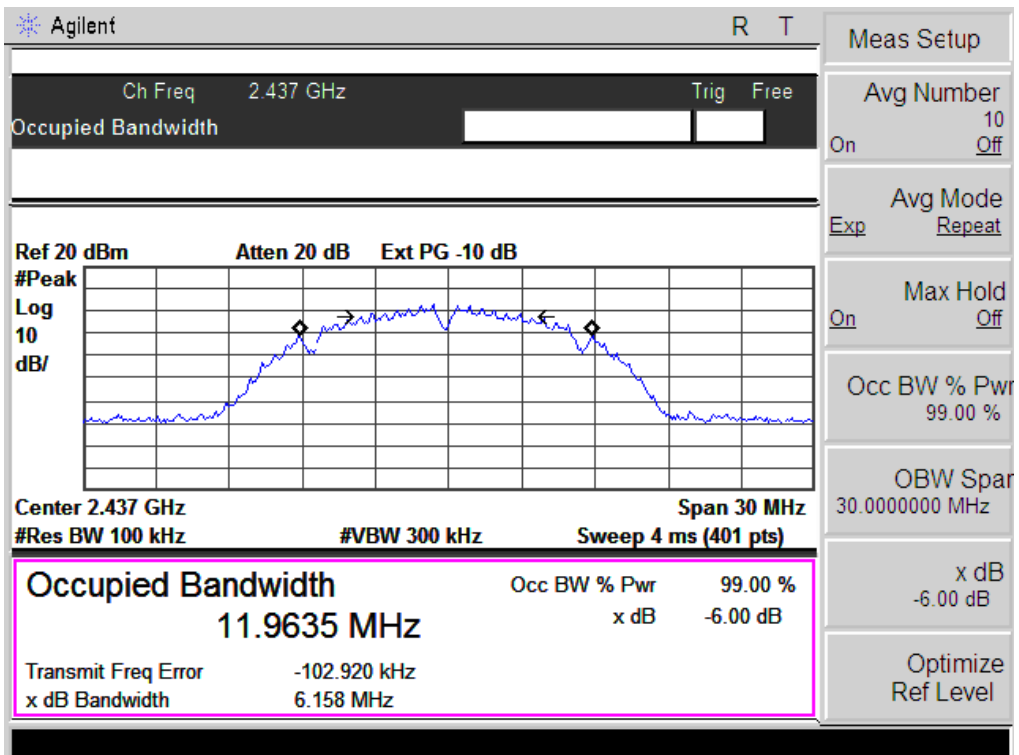
5.1.5 TEST RESULTS

EUT :	MID	Model Name :	PF-M971
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b Mode /CH01, CH06, CH11		

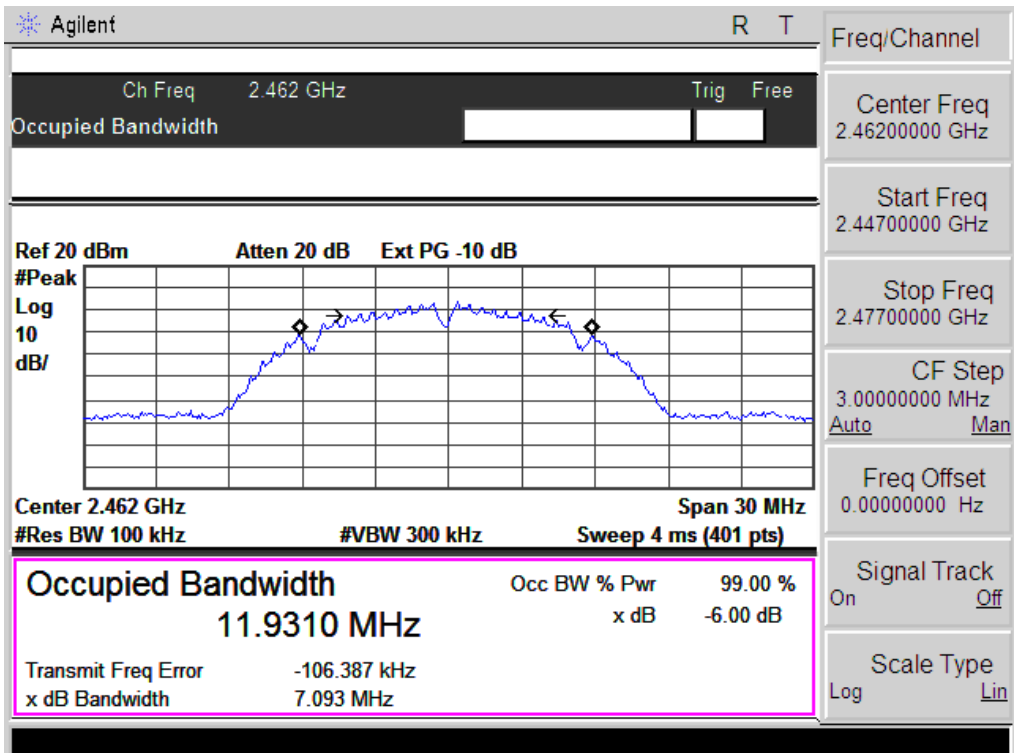
Channel	Frequency (MHz)	Data Rate (Mbps)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	1	7.55	500	Pass
Middle	2437	1	6.16	500	Pass
High	2462	1	7.09	500	Pass



TX CH 06



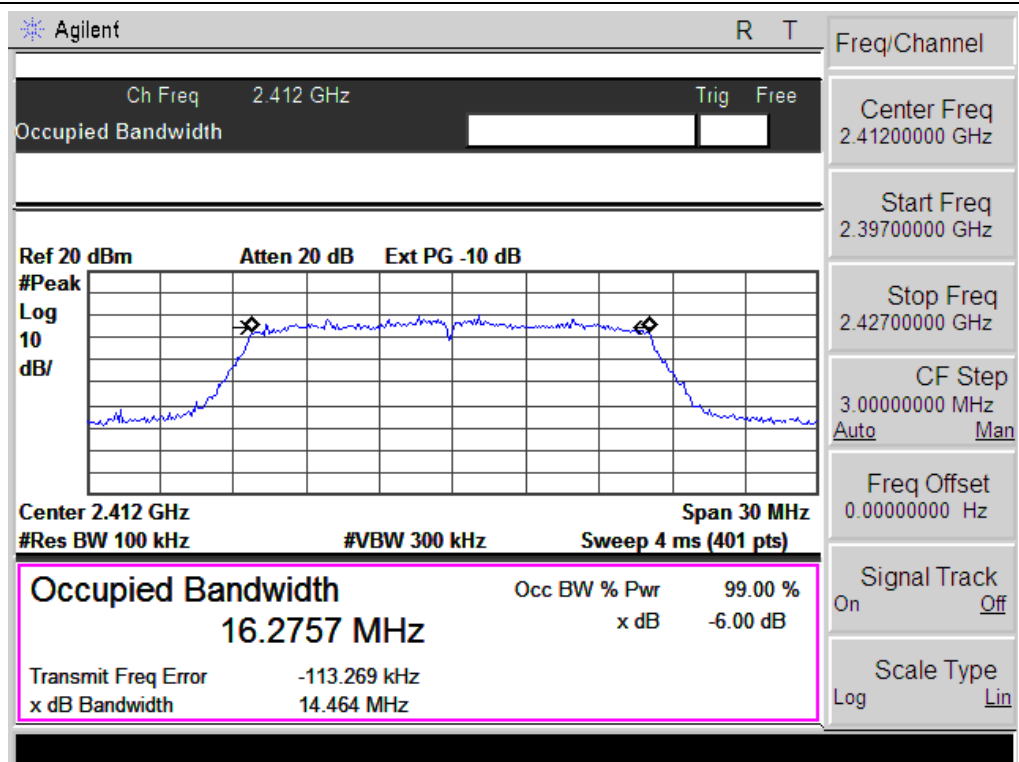
TX CH 11



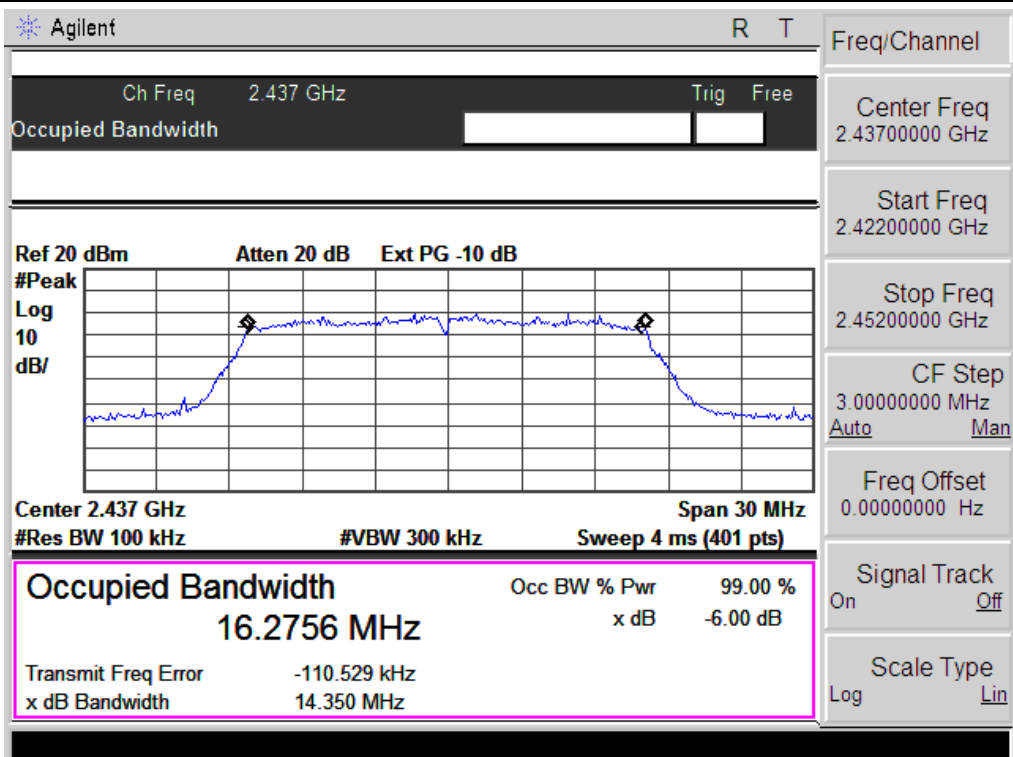
EUT :	MID	Model Name :	PF-M971
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX g Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	Data Rate (Mbps)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	6	14.46	500	Pass
Middle	2437	6	14.35	500	Pass
High	2462	6	15.15	500	Pass

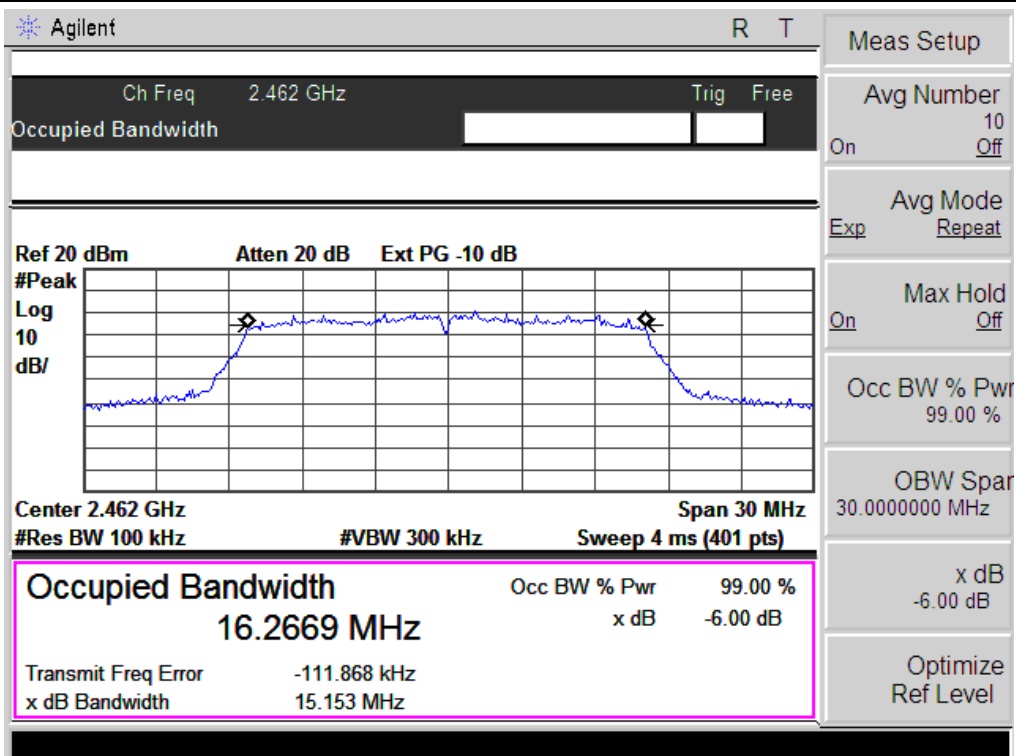
TX CH 01



TX CH 06



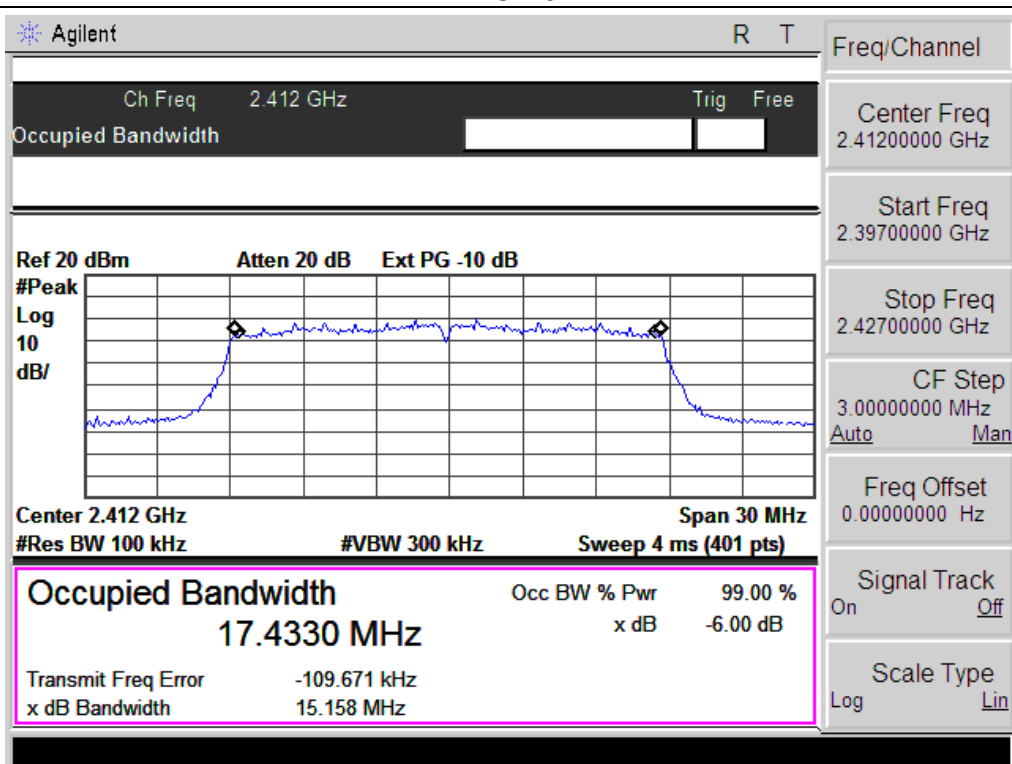
TX CH 11



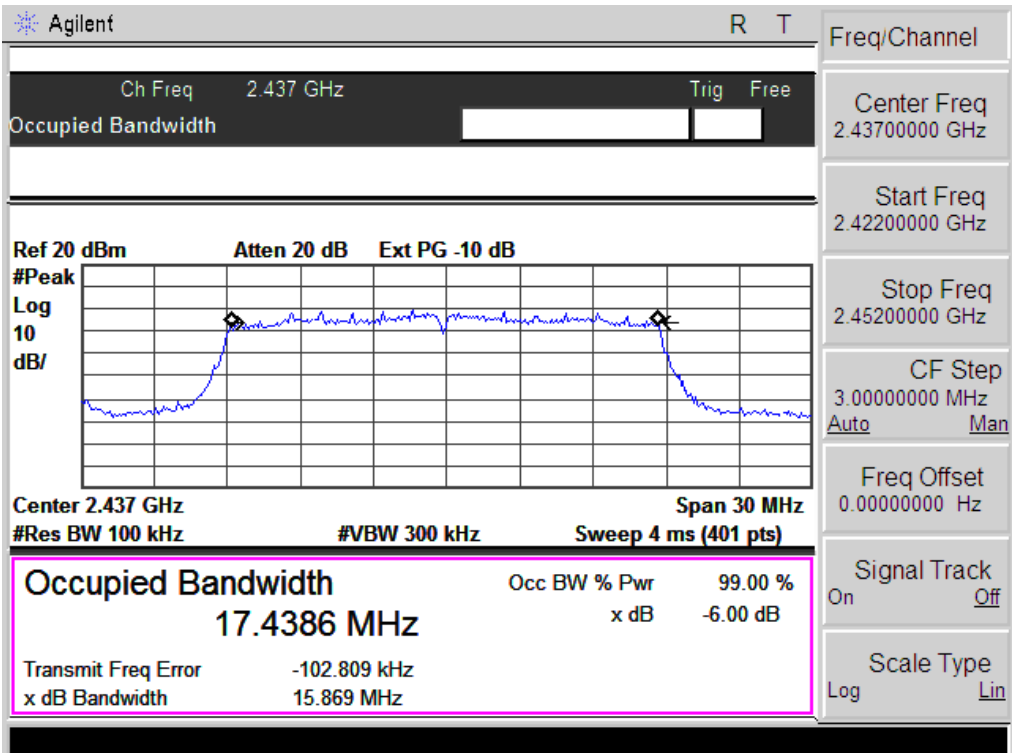
EUT :	MID	Model Name :	PF-M971
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX n Mode/CH01, CH06, CH11		

Channel	Frequency (MHz)	Data Rate (Mbps)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	Msc7	15.16	500	Pass
Middle	2437	Msc7	15.87	500	Pass
High	2462	Msc7	14.20	500	Pass

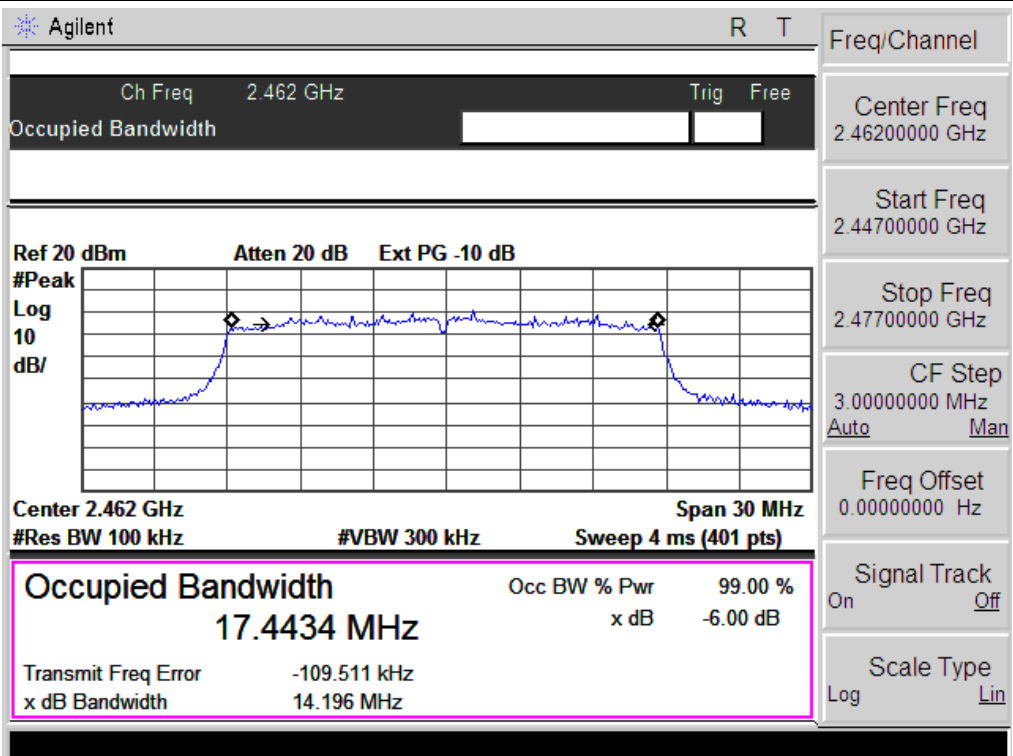
TX CH 01



TX CH 06



TX CH 11



6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 TEST RESULTS

EUT :	MID	Model Name :	PF-M971
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX b/g/n Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	Maximum Peak Conducted Output Power	Maximum Conducted Output Power (AV)	Limit (dBm)
802.11b mode				
Low	2412	12.76	9.80	30
Middle	2437	12.41	9.12	30
High	2462	12.33	9.78	30
802.11g mode				
Low	2412	11.11	8.73	30
Middle	2437	11.73	8.13	30
High	2462	11.78	8.05	30
802.11n mode				
Low	2412	11.95	8.26	30
Middle	2437	11.87	8.57	30
High	2462	11.93	8.65	30

7. ANTENNA REQUIREMENT

7.1 STANDARD REQUIREMENT

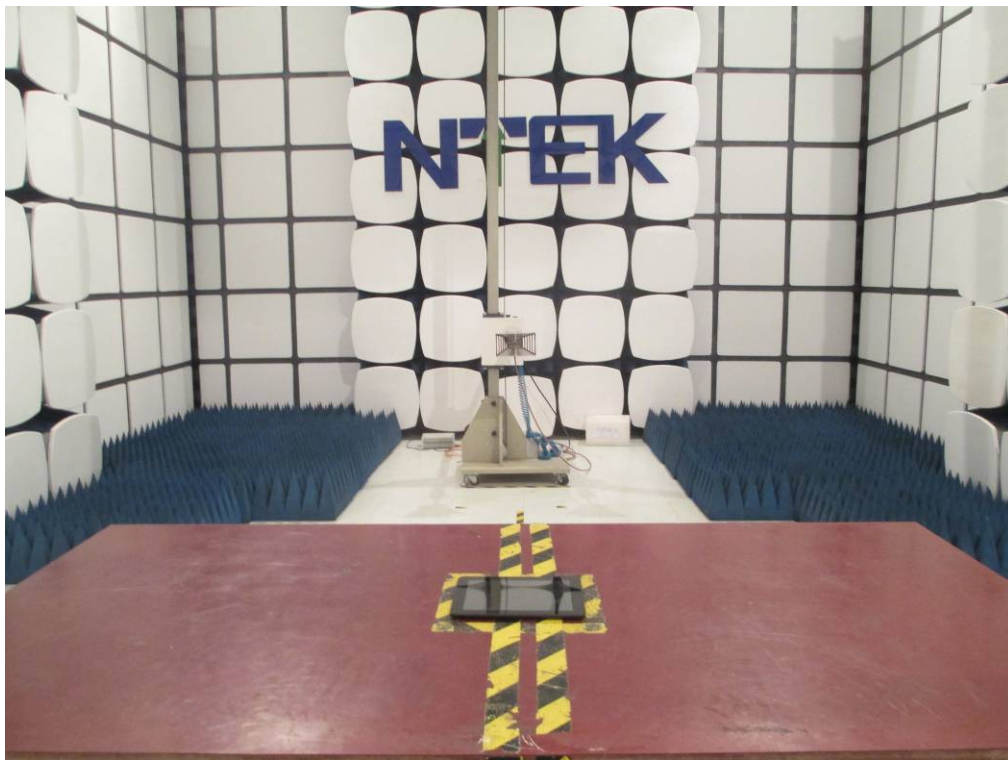
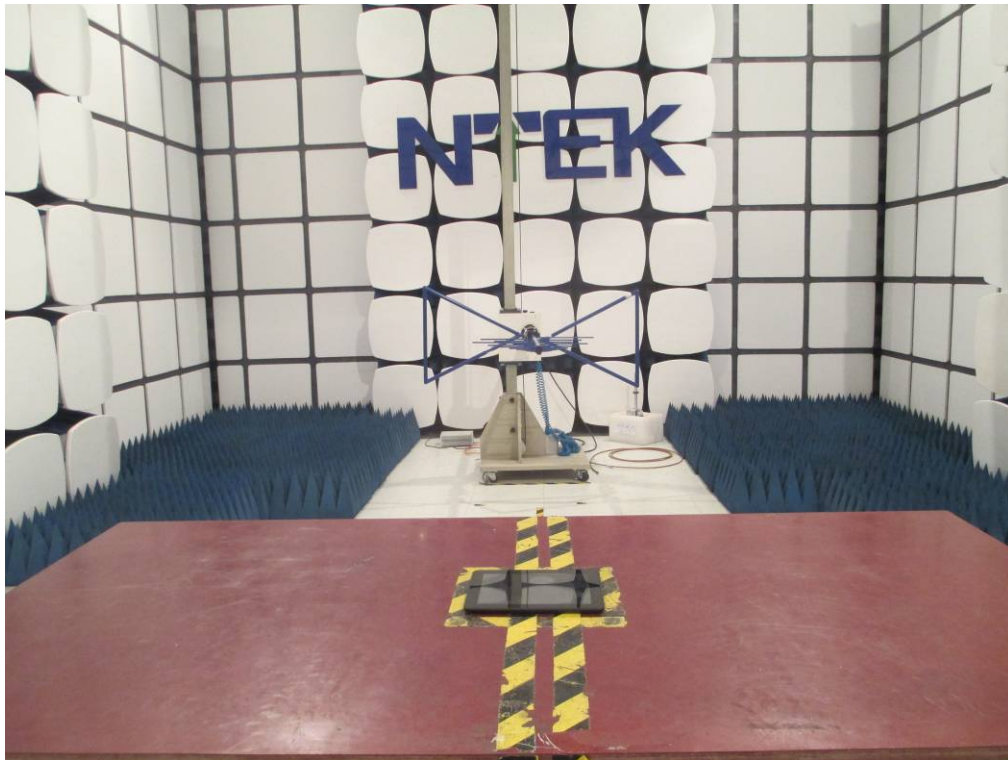
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.2 EUT ANTENNA

The EUT antenna is Integrated(PCB) antenna. It comply with the standard requirement.

8. EUT TEST PHOTO

Radiated Measurement Photos



Conducted Measurement Photos