

FCC Radio Test Report

FCC ID: OI2K711C

Original Grant

Report No. : TB-FCC139751
Applicant : ILIFE TECHNOLOGY(HK) LIMITED
Equipment Under Test (EUT)
EUT Name : MID
Model No. : K711C
Serial No. : N/A
Brand Name : N/A
Receipt Date : 2014-03-20
Test Date : 2014-03-21 to 2014-04-08
Issue Date : 2014-04-10
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 : *IVAN SU*

Approved& Authorized : *Long Hai.*

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	:	ILIFE TECHNOLOGY(HK) LIMITED
Address	:	3rd Floor, Bld. 3, Lijincheng Industrial Park, The East of Gongye Road, Longhua, Shenzhen, China
Manufacturer	:	ILIFE TECHNOLOGY(HK) LIMITED
Address	:	3rd Floor, Bld. 3, Lijincheng Industrial Park, The East of Gongye Road, Longhua, Shenzhen, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	MID
Models No.	:	K711C
Model Difference	:	N/A
Product Description	:	Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11b/g/n(HT40): 2422MHz~2452MHz
	:	Number of Channel: 802.11b/g/n(HT20):11 channels see note(3) 802.11b/g/n(HT40): 7 channels see note(3)
	:	RF Output Power: 802.11b: 9.29 dBm 802.11g: 9.39 dBm 802.11n (HT20): 9.27 dBm 802.11n (HT40): 9.15 dBm
	:	Antenna Gain: 0 dBi (Integral Antenna)
	:	Modulation Type: 802.11b: DSSS (CCK, QPSK, BPSK) 802.11g: OFDM 802.11n: OFDM
	:	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
	:	
Power Supply	:	USB Charging from PC DC power supplied by AC/DC Adapter DC Voltage supplied from Li-Polymer battery.
Power Rating	:	USB DC 5V form PC. AC/DC Adapter(BLT-XC0520B): Input: AC 100~240V 50/60Hz Output: DC 5V 1.5A DC 3.7V 2250mAh from Li-ion battery
Connecting I/O Port(S)	:	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:

- (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 v03r01.
- (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:

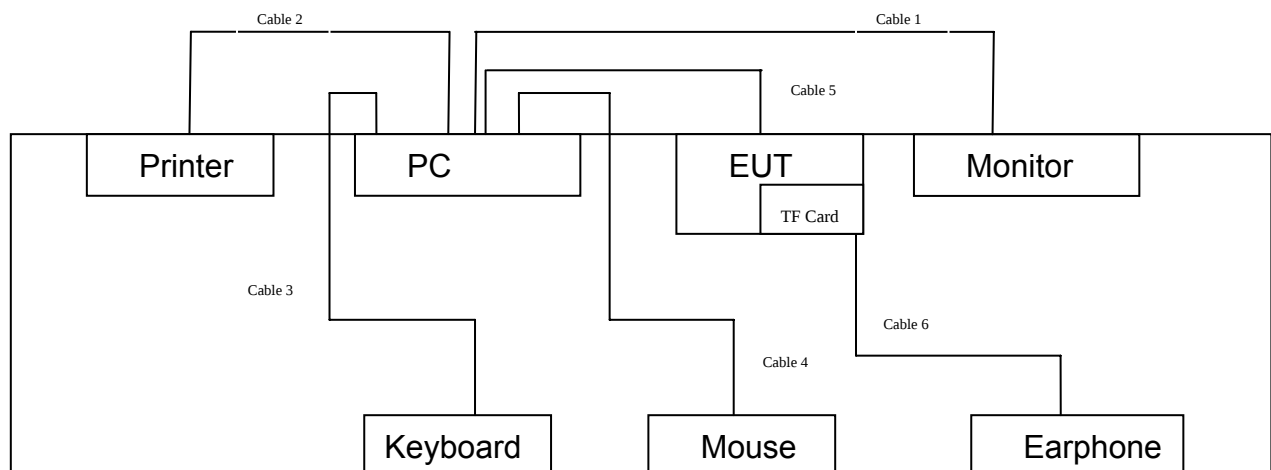
CH 01~CH 11 for 802.11b/g/n(HT20)

CH 03~CH 09 for 802.11b/g/n(HT20)

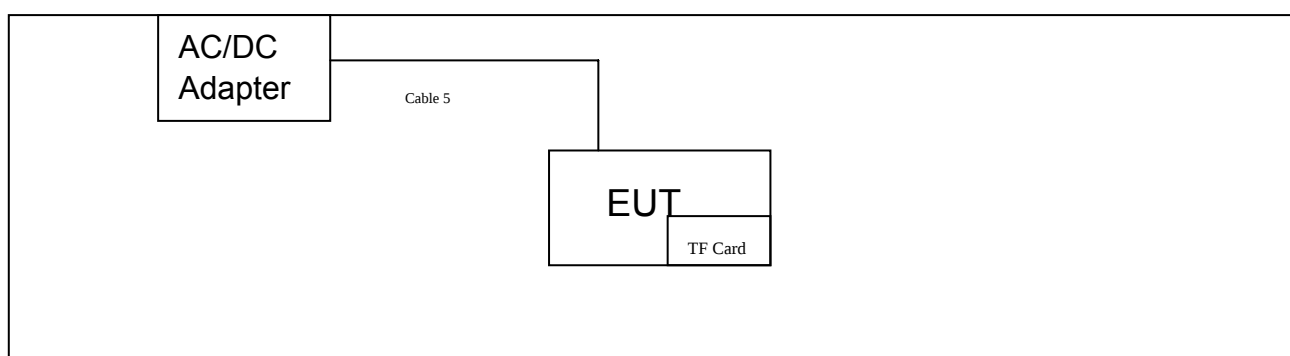
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

1.3 Block Diagram Showing the Configuration of System Tested

USB Charging and Loading Data Mode



TX Mode



1.4 Description of Support Units

Equipment Information				
Name	Model	S/N	Manufacturer	Used “√”
Printer	HP1505n	VNF3G06957	HP	√
LCD Monitor	E170Sc	----	DELL	√
PC	OPTIPLEX380	----	DELL	√
Keyboard	L100	U01C	DELL	√
Mouse	M-UARDEL7	----	DELL	√
TF Card	1GB	----	Kingston	√
Notebook	B470A2450	VNF3G06957	Lenovo	
Earphone	----	----	----	Accessories
Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note
Cable 1	YES	YES(2)	1.8M	
Cable 2	YES	YES(1)	2.0M	
Cable 3	YES	NO	1.5M	
Cable 4	YES	NO	1.5M	
Cable 5	NO	NO	0.8M	Accessories
Cable 6	NO	NO	1.15M	Accessories

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	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: Realtek MP Tool.apk		
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	27	28	30
IEEE 802.11g OFDM	29	30	31
IEEE 802.11n (HT20)	28	29	31
IEEE 802.11n (HT40)	29	30	31

1.7 Test Facility

The tests were performed at:

Shenzhen Certification Technology Service Co., Ltd

2F, Building B, East Area of Nanchang Second Industrial Zone, Gushu 2nd Road, Bao'an

District, Shenzhen, 518126, China

Tel: 86-755-86375552 Fax: 86-755-26736857

The test report was fulfilled by Shenzhen Toby Technology Co., Ltd. Shenzhen Toby Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements results.

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 μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

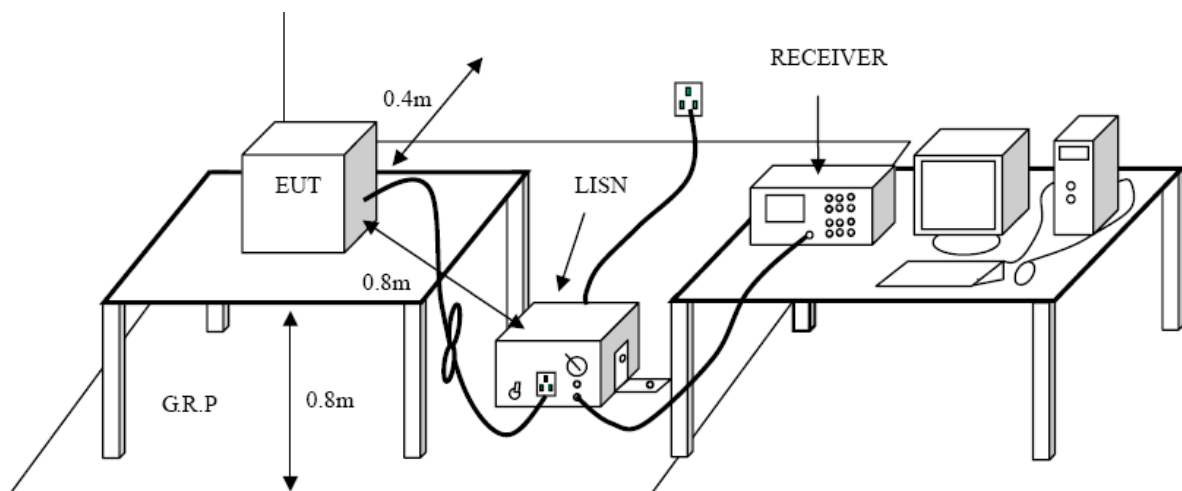
Notes:

(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	2013-08-10	2014-08-09
50ΩCoaxial Switch	Anritsu	MP59B	X10321	2013-08-10	2014-08-09
L.I.S.N	Rohde & Schwarz	ENV216	101131	2013-08-10	2014-08-09
L.I.S.N	SCHWARZBECK	NNBL 8226-2	8226-2/164	2013-08-10	2014-08-09

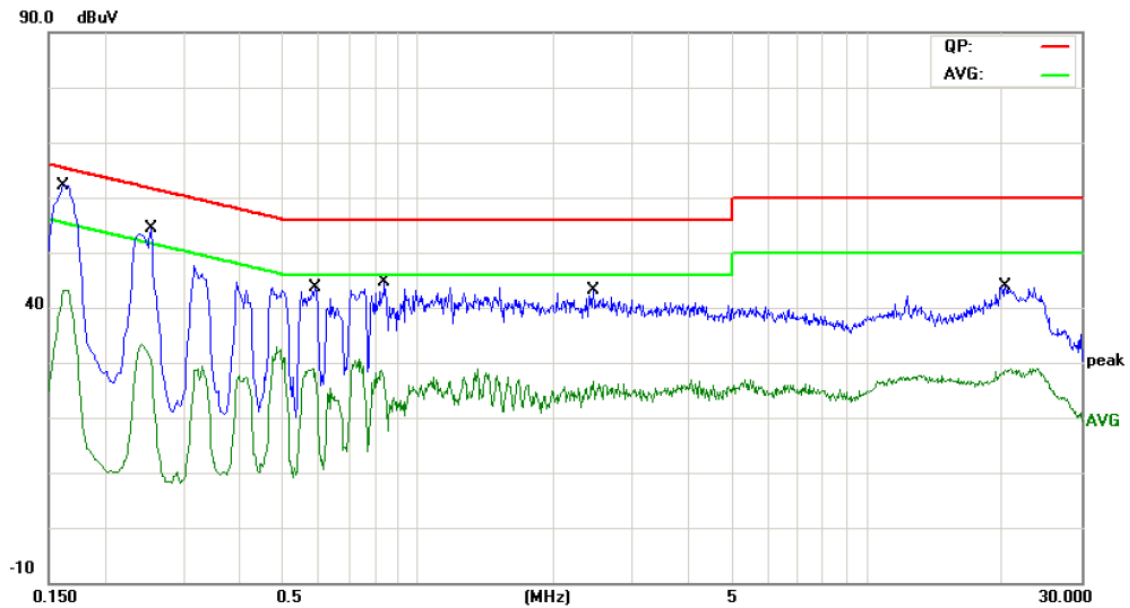
3.5 EUT Operating Mode

Please refer to the description of test mode.

3.6 Test Data

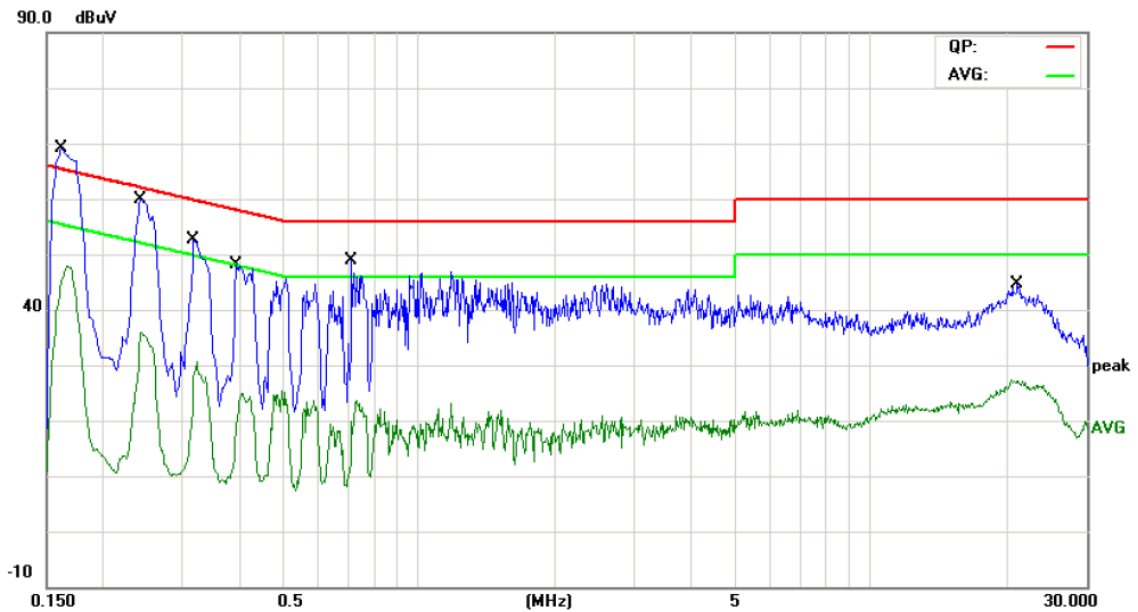
Please see the next page.

E.U.T :	MID	Model Name :	K711C
Temperature :	21°C	Relative Humidity :	51 %
Terminal	Line		
Test Voltage :	AC 120 V / 60Hz		
Test Mode :	Mode 1: TX B Mode		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1620	46.89	10.76	57.65	65.36	-7.71	QP
2		0.1620	30.88	10.76	41.64	55.36	-13.72	AVG
3		0.2540	37.80	9.93	47.73	61.62	-13.89	QP
4		0.2540	16.94	9.93	26.87	51.62	-24.75	AVG
5		0.5899	30.41	9.41	39.82	56.00	-16.18	QP
6		0.5899	17.03	9.41	26.44	46.00	-19.56	AVG
7		0.8420	30.66	9.41	40.07	56.00	-15.93	QP
8		0.8420	17.25	9.41	26.66	46.00	-19.34	AVG
9		2.4539	29.15	9.35	38.50	56.00	-17.50	QP
10		2.4539	16.28	9.35	25.63	46.00	-20.37	AVG
11		20.2979	27.03	10.26	37.29	60.00	-22.71	QP
12		20.2979	16.97	10.26	27.23	50.00	-22.77	AVG

E.U.T :	MID	Model Name :	K711C
Temperature :	26°C	Relative Humidity :	51 %
Terminal	Neutral		
Test Voltage :	AC 120 V / 60Hz		
Test Mode :	Mode 1: TX B Mode		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1620	51.16	10.79	61.95	65.36	-3.41	QP
2		0.1620	32.71	10.79	43.50	55.36	-11.86	AVG
3		0.2420	41.46	10.04	51.50	62.02	-10.52	QP
4		0.2420	21.98	10.04	32.02	52.02	-20.00	AVG
5		0.3180	33.72	9.76	43.48	59.76	-16.28	QP
6		0.3180	13.99	9.76	23.75	49.76	-26.01	AVG
7		0.3940	29.71	9.66	39.37	57.98	-18.61	QP
8		0.3940	10.55	9.66	20.21	47.98	-27.77	AVG
9		0.7100	29.96	9.46	39.42	56.00	-16.58	QP
10		0.7100	10.67	9.46	20.13	46.00	-25.87	AVG
11		21.0580	27.31	10.34	37.65	60.00	-22.35	QP
12		21.0580	15.19	10.34	25.53	50.00	-24.47	AVG

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

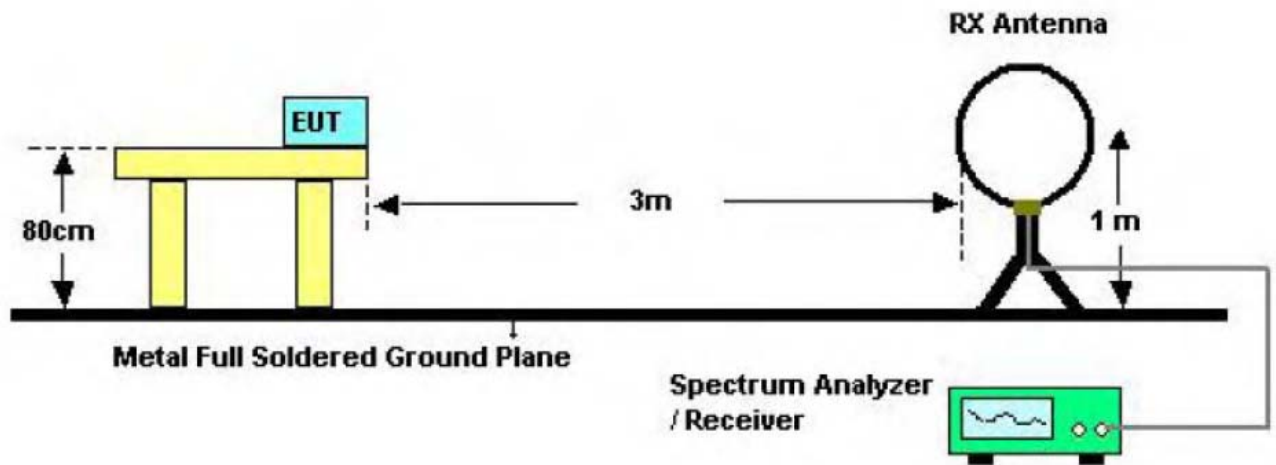
Radiated Emission Limit (Above 1000MHz)

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

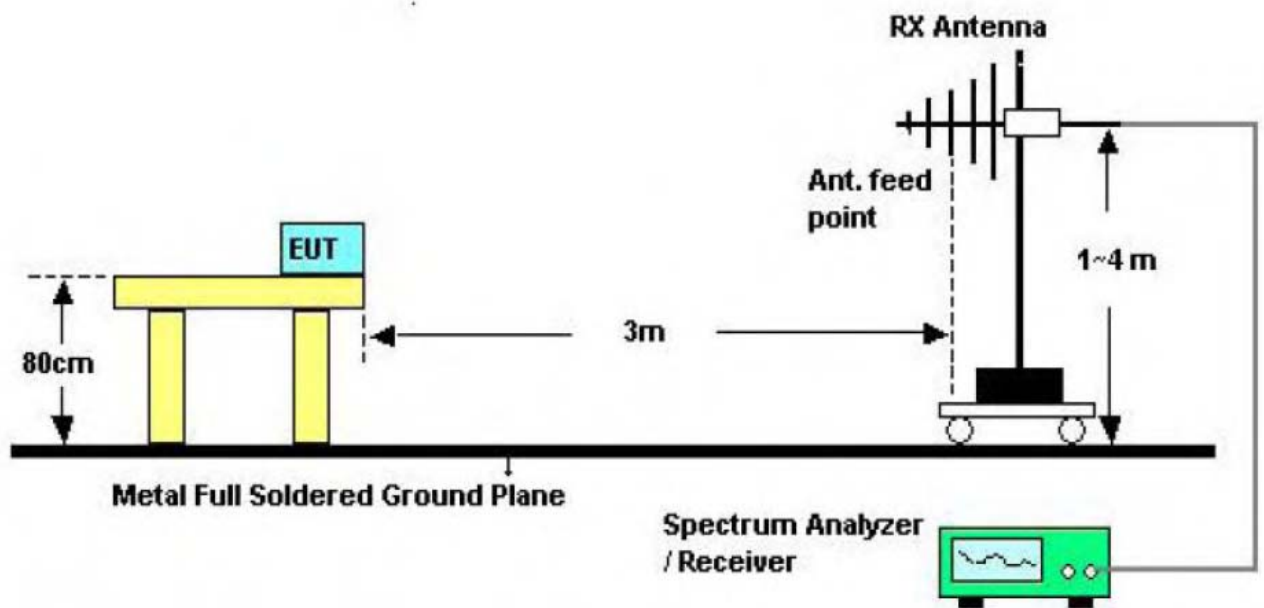
Note:

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

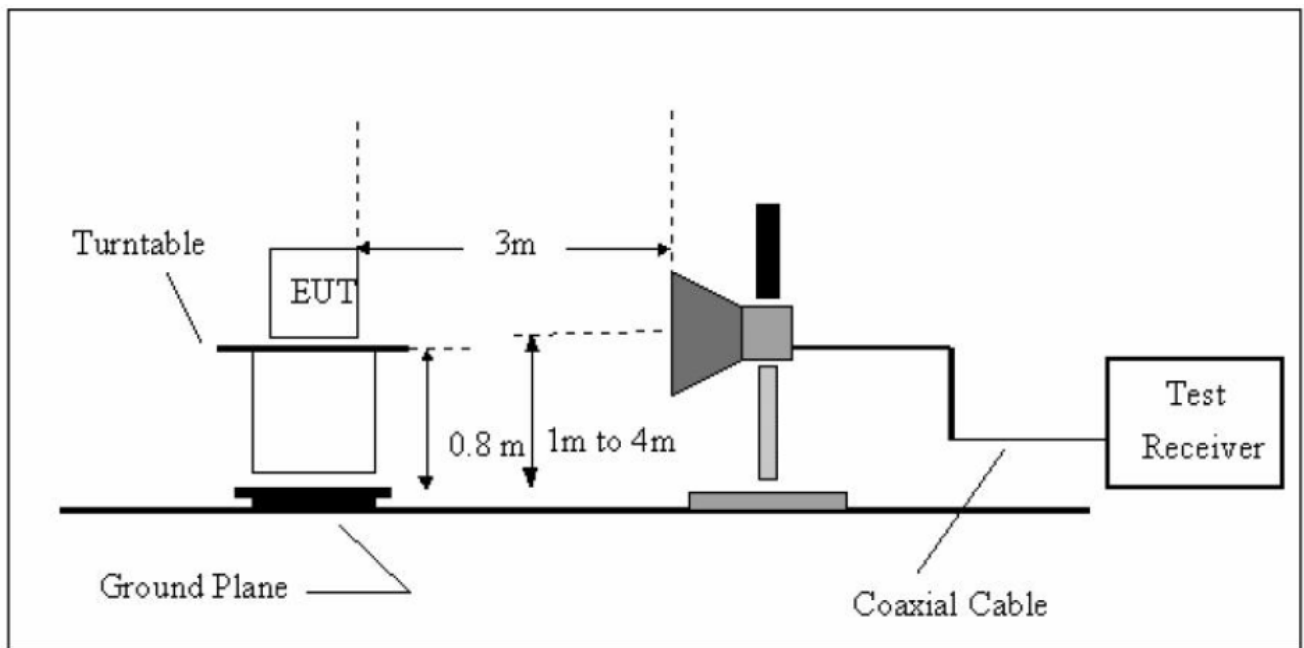
4.2 Test Setup



Bellow 30MHz Test Setup



Bellow 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 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) 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.

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.

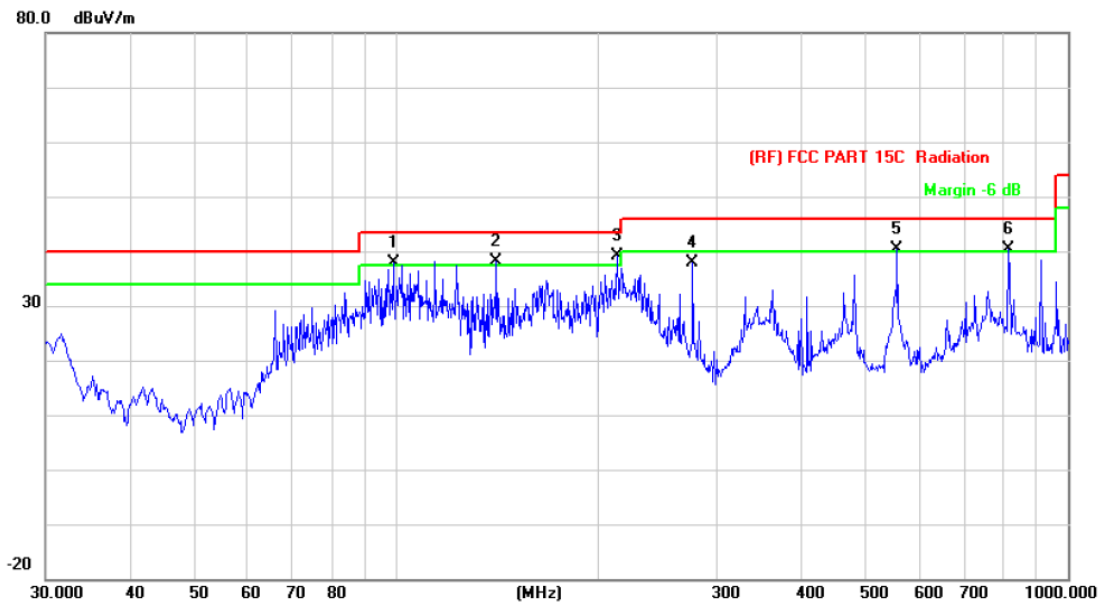
4.5 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Mar. 20, 2014	Mar. 19, 2014
Spectrum Analyzer	Rohde & Schwarz	FSP30	DE25181	Aug. 10, 2013	Aug.09, 2014
EMI Test Receiver	Rohde & Schwarz	ESCI	101165	Aug. 10, 2013	Aug.09, 2014
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

Please see the next page.

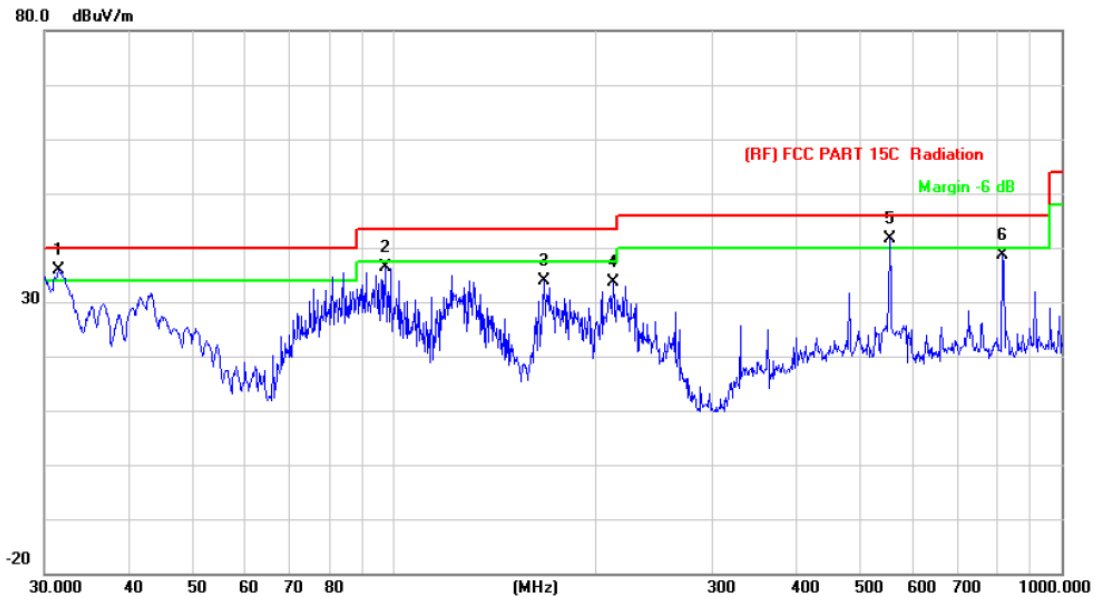
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	!	98.8326	59.77	-21.92	37.85	43.50	-5.65	peak
2	!	140.8351	59.92	-21.91	38.01	43.50	-5.49	peak
3	*	213.0151	58.88	-19.83	39.05	43.50	-4.45	peak
4		276.1235	55.43	-17.55	37.88	46.00	-8.12	peak
5	!	556.7744	50.49	-10.12	40.37	46.00	-5.63	peak
6	!	815.9678	46.70	-6.37	40.33	46.00	-5.67	peak

Emission Level= Read Level+ Correct Factor

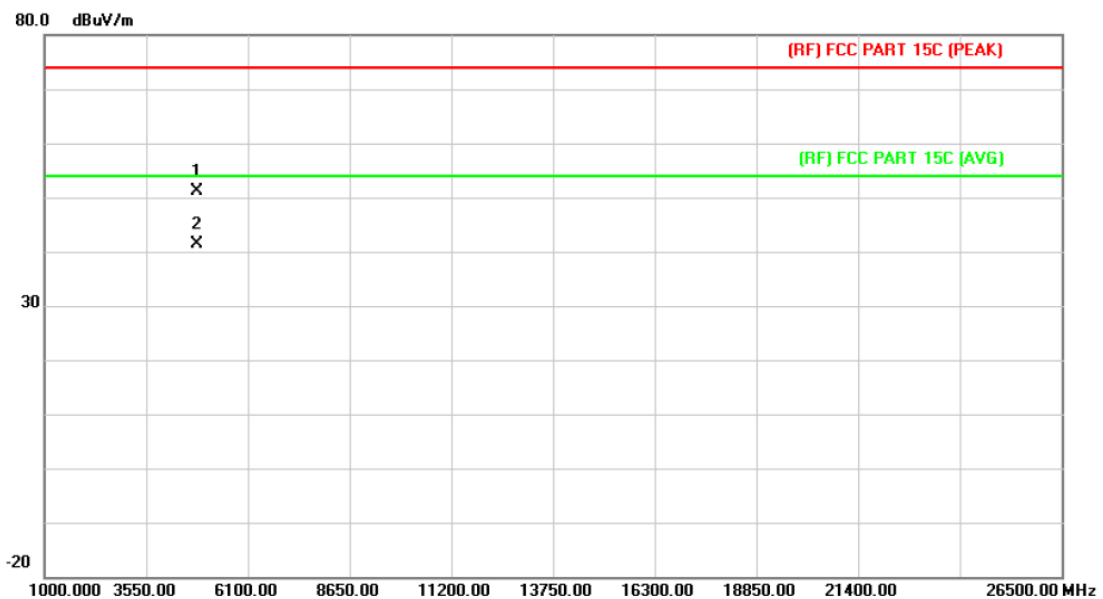
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	31.5095	50.73	-14.89	35.84	40.00	-4.16	peak
2		97.1148	58.39	-22.08	36.31	43.50	-7.19	peak
3		167.8243	54.87	-21.04	33.83	43.50	-9.67	peak
4		213.0151	53.55	-19.83	33.72	43.50	-9.78	peak
5	!	552.8832	51.84	-10.13	41.71	46.00	-4.29	peak
6		815.9678	45.00	-6.37	38.63	46.00	-7.37	peak

Emission Level= Read Level+ Correct Factor

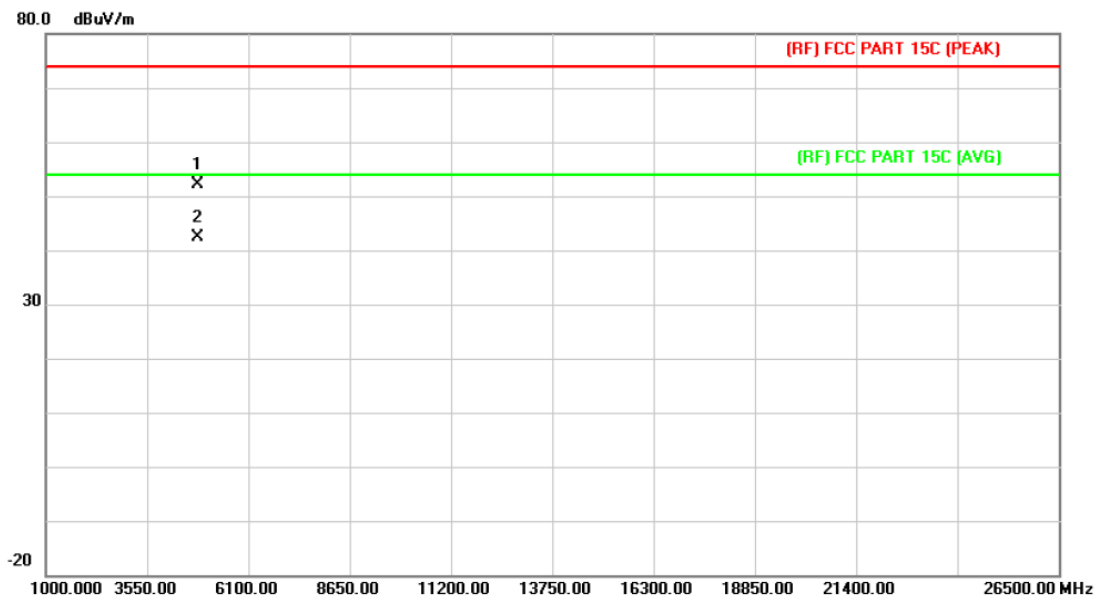
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.903	43.02	8.19	51.21	74.00	-22.79	peak
2	*	4823.903	33.07	8.19	41.26	54.00	-12.74	AVG

Emission Level= Read Level+ Correct Factor

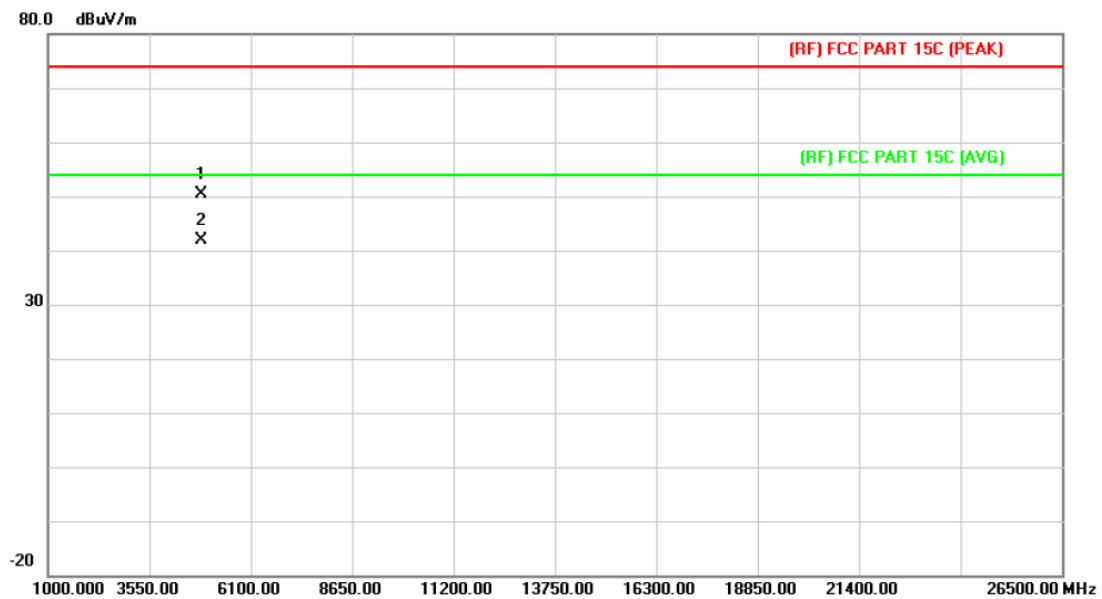
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.903	43.90	8.19	52.09	74.00	-21.91	peak
2	*	4823.903	34.10	8.19	42.29	54.00	-11.71	AVG

Emission Level= Read Level+ Correct Factor

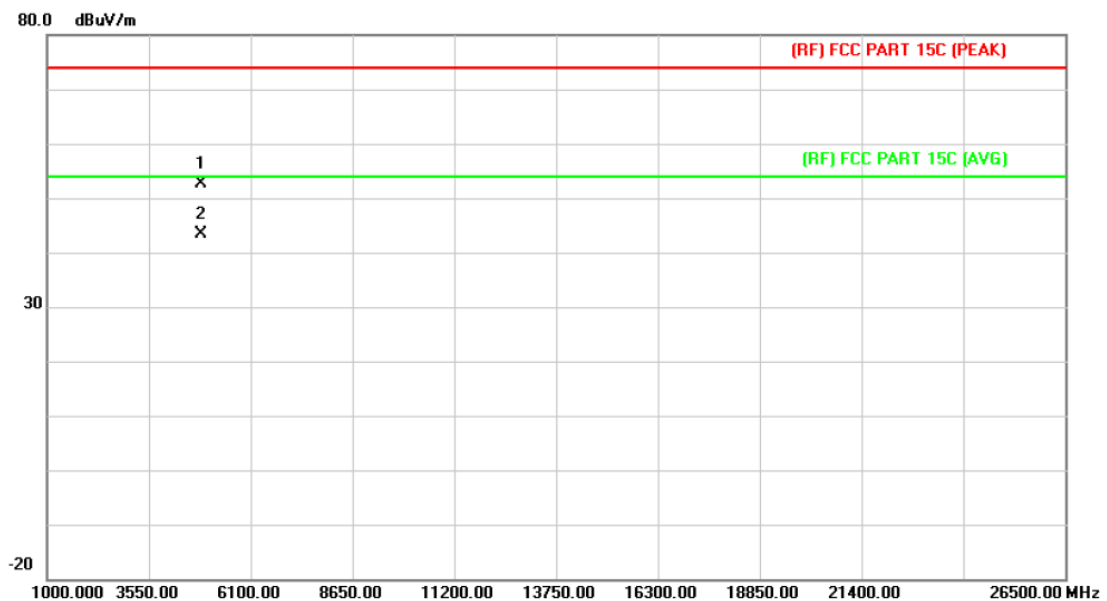
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.903	42.17	8.21	50.38	74.00	-23.62	peak
2	*	4873.903	33.65	8.21	41.86	54.00	-12.14	AVG

Emission Level= Read Level+ Correct Factor

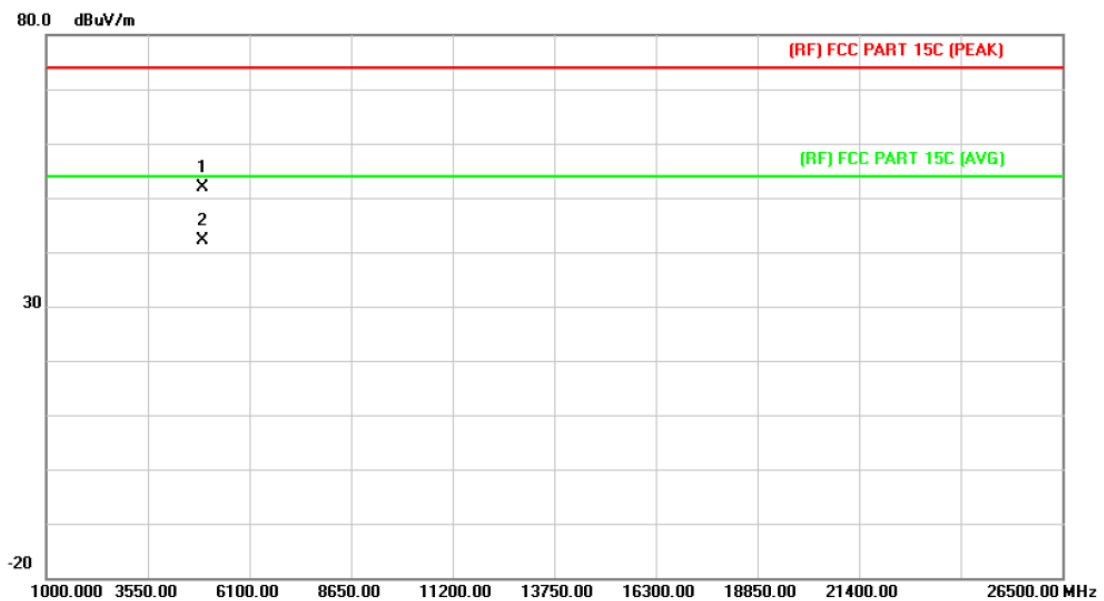
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.903	44.45	8.21	52.66	74.00	-21.34	peak
2	*	4873.903	35.15	8.21	43.36	54.00	-10.64	AVG

Emission Level= Read Level+ Correct Factor

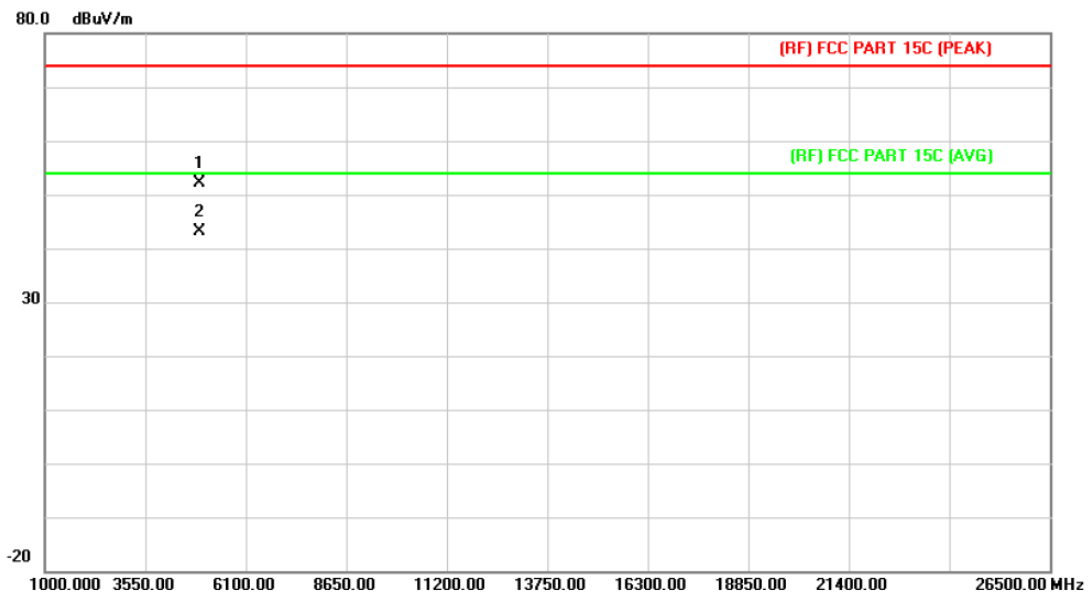
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.903	43.74	8.22	51.96	74.00	-22.04	peak
2	*	4923.903	33.86	8.22	42.08	54.00	-11.92	AVG

Emission Level= Read Level+ Correct Factor

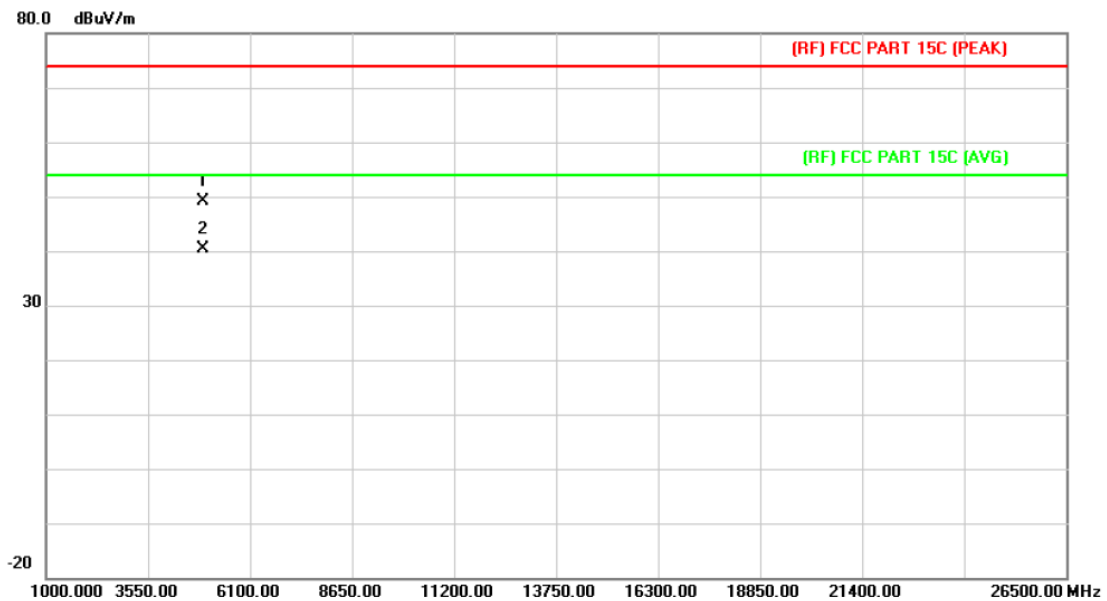
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.962	43.79	8.22	52.01	74.00	-21.99	peak
2	*	4923.962	34.79	8.22	43.01	54.00	-10.99	AVG

Emission Level= Read Level+ Correct Factor

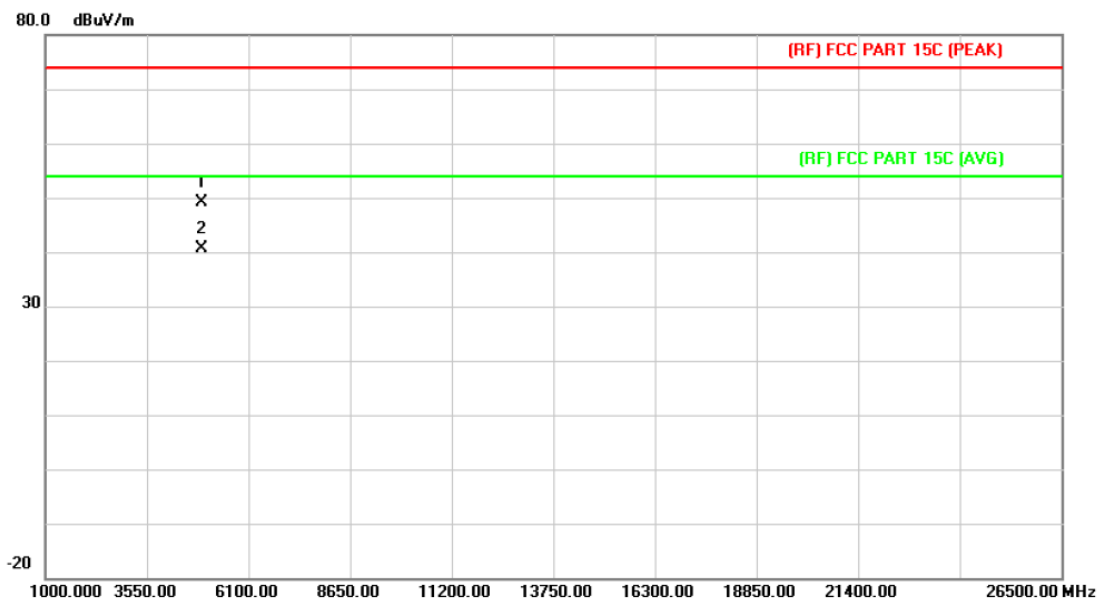
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.962	40.96	8.22	49.18	74.00	-24.82	peak
2	*	4923.962	32.10	8.22	40.32	54.00	-13.68	AVG

Emission Level= Read Level+ Correct Factor

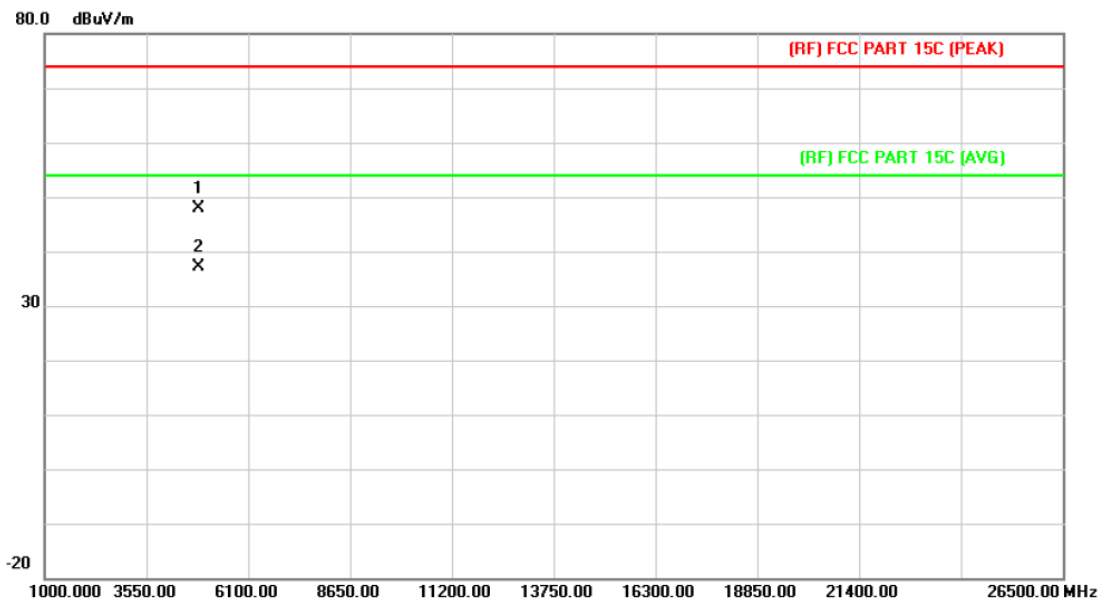
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.962	40.84	8.22	49.06	74.00	-24.94	peak
2	*	4923.962	32.38	8.22	40.60	54.00	-13.40	AVG

Emission Level= Read Level+ Correct Factor

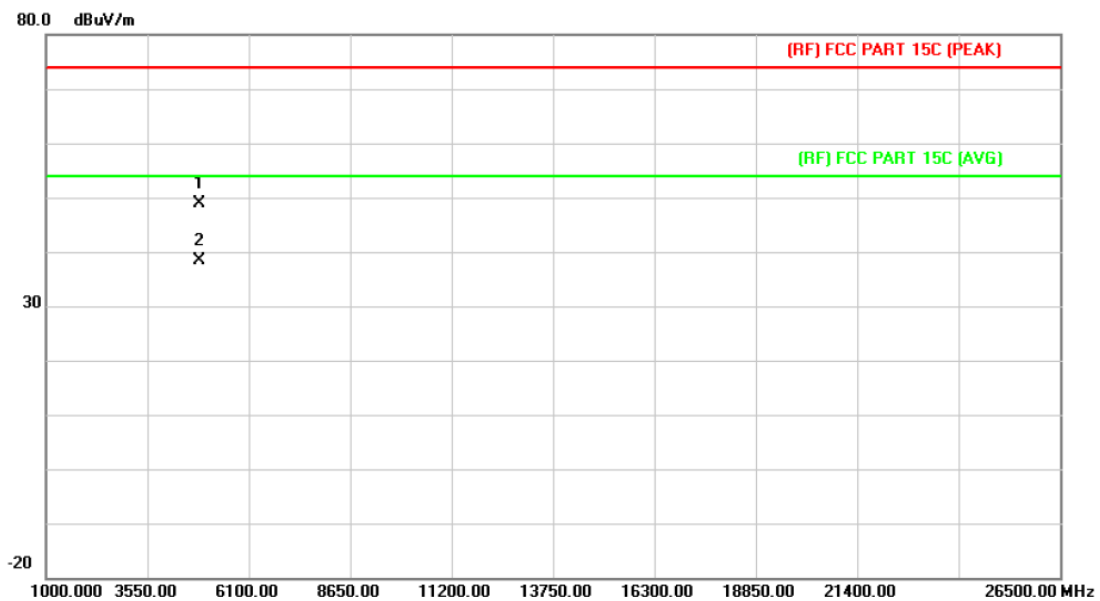
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.966	39.62	8.21	47.83	74.00	-26.17	peak
2	*	4873.966	28.93	8.21	37.14	54.00	-16.86	AVG

Emission Level= Read Level+ Correct Factor

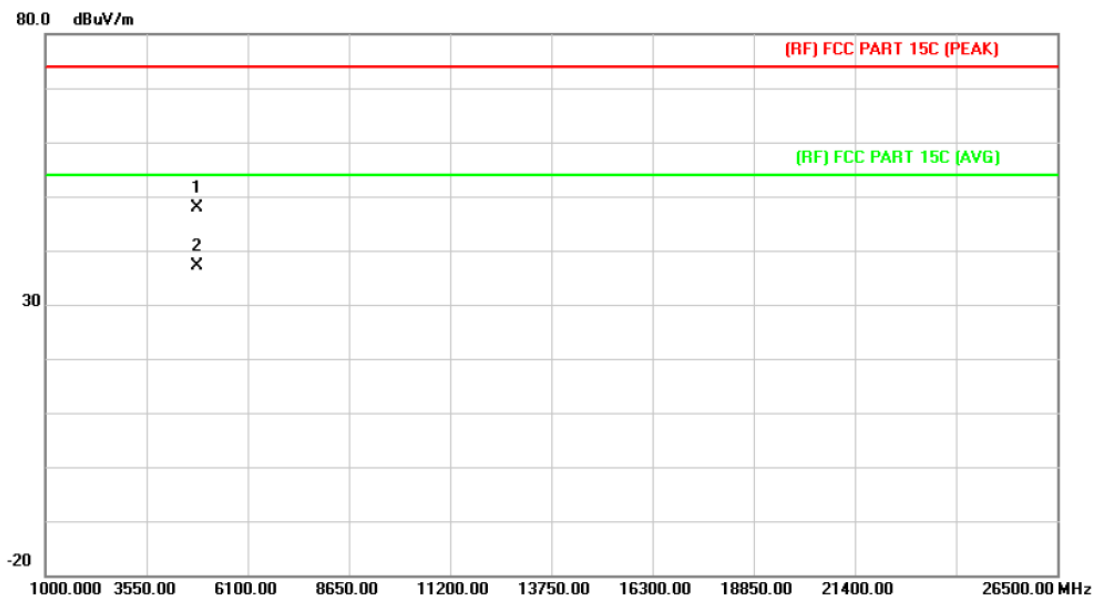
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.964	40.75	8.21	48.96	74.00	-25.04	peak
2	*	4873.964	30.07	8.21	38.28	54.00	-15.72	AVG

Emission Level= Read Level+ Correct Factor

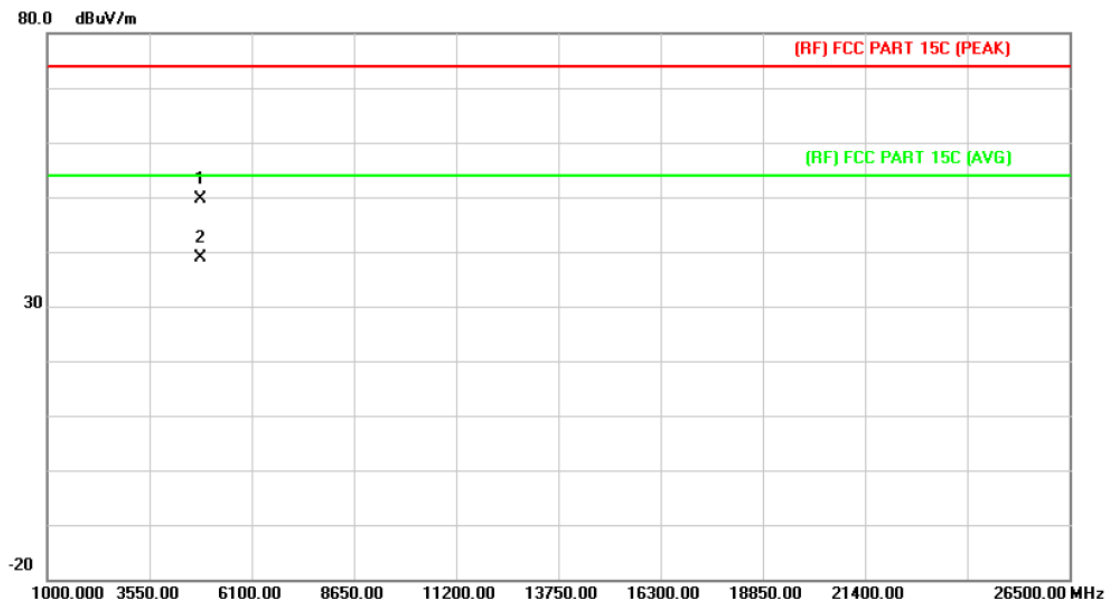
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.974	39.69	8.19	47.88	74.00	-26.12	peak
2	*	4823.974	28.93	8.19	37.12	54.00	-16.88	AVG

Emission Level= Read Level+ Correct Factor

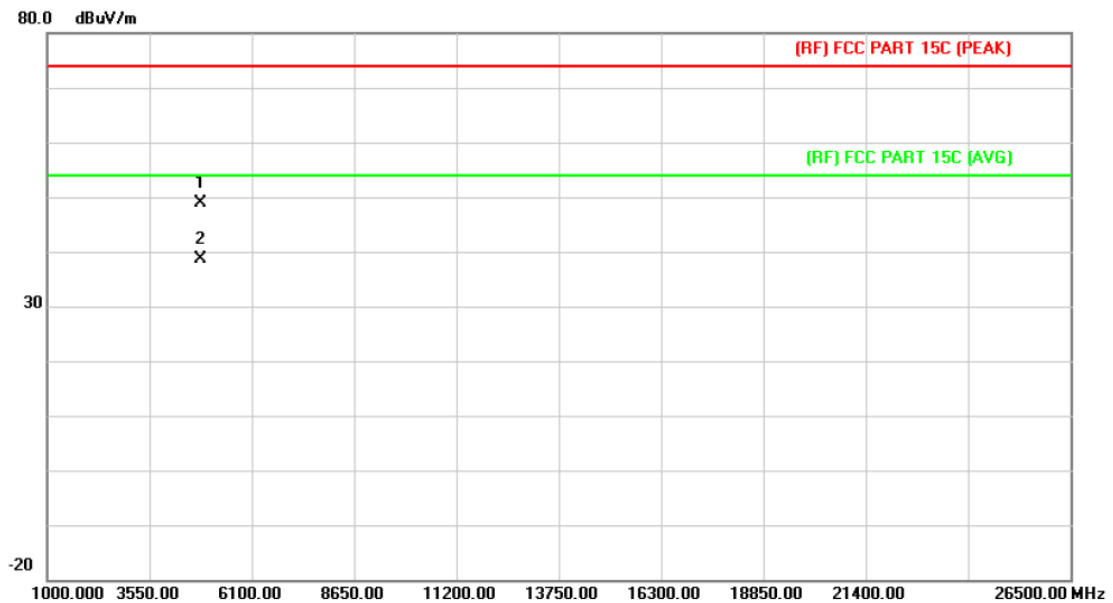
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.970	41.32	8.19	49.51	74.00	-24.49	peak
2	*	4823.970	30.70	8.19	38.89	54.00	-15.11	AVG

Emission Level= Read Level+ Correct Factor

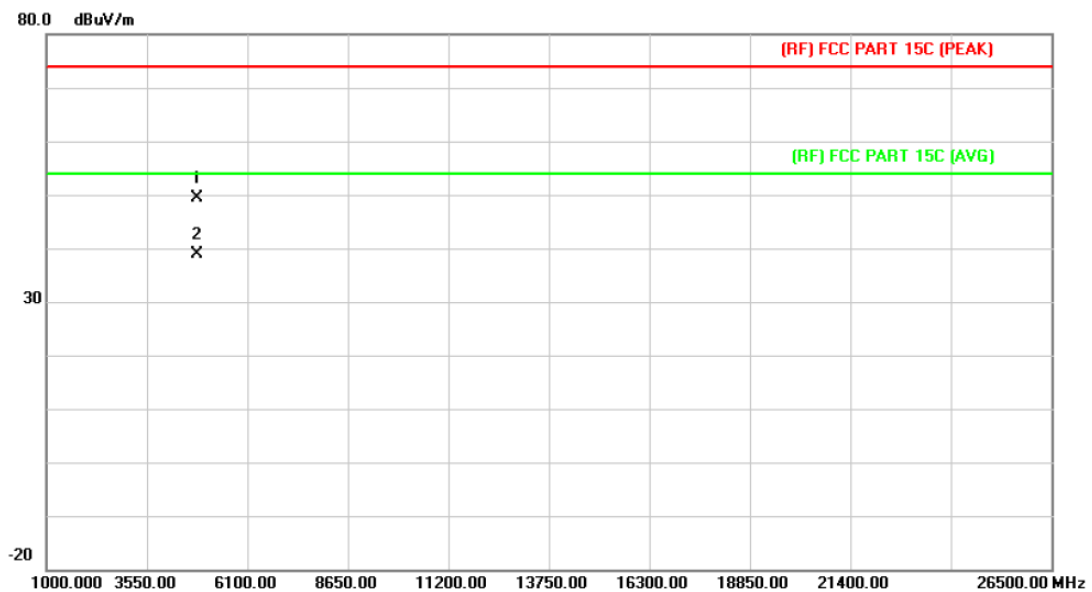
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.970	40.79	8.19	48.98	74.00	-25.02	peak
2	*	4823.970	30.52	8.19	38.71	54.00	-15.29	AVG

Emission Level= Read Level+ Correct Factor

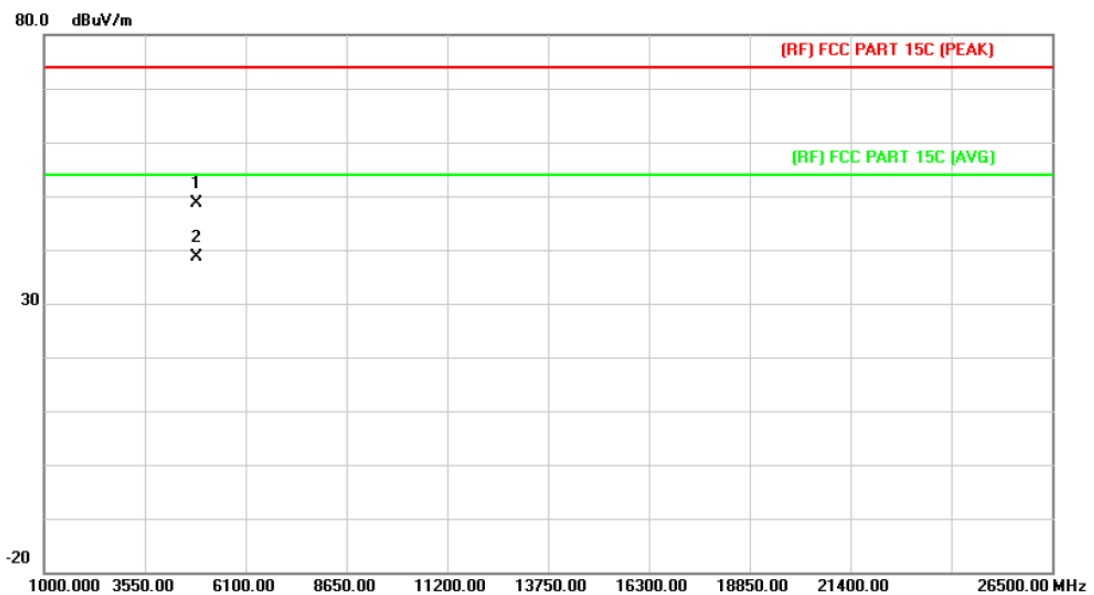
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.970	41.08	8.19	49.27	74.00	-24.73	peak
2	*	4823.970	30.72	8.19	38.91	54.00	-15.09	AVG

Emission Level= Read Level+ Correct Factor

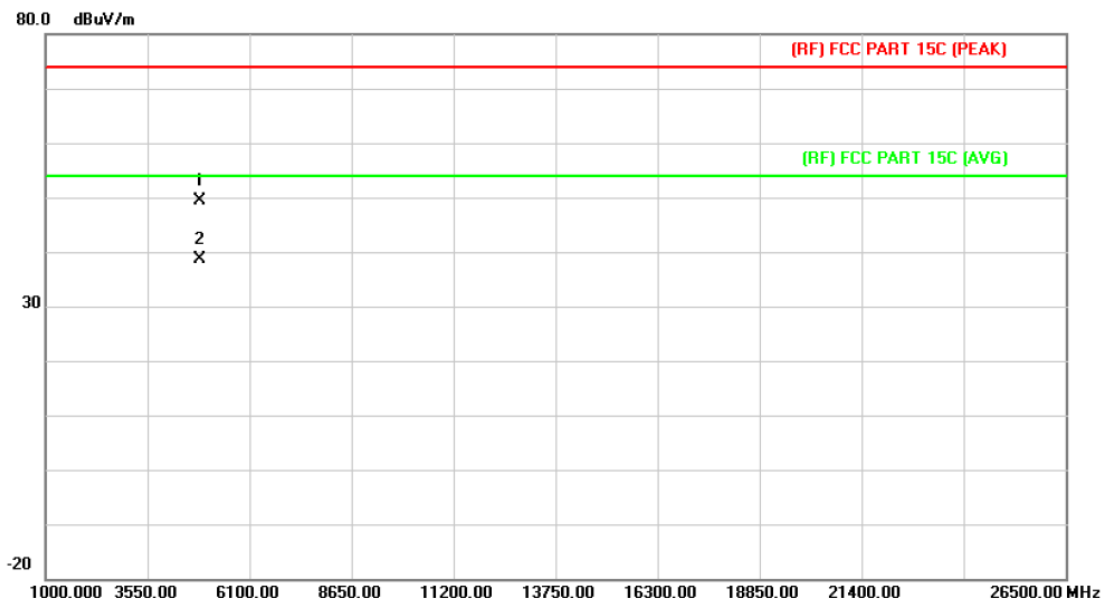
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.970	40.39	8.21	48.60	74.00	-25.40	peak
2	*	4873.970	30.34	8.21	38.55	54.00	-15.45	AVG

Emission Level= Read Level+ Correct Factor

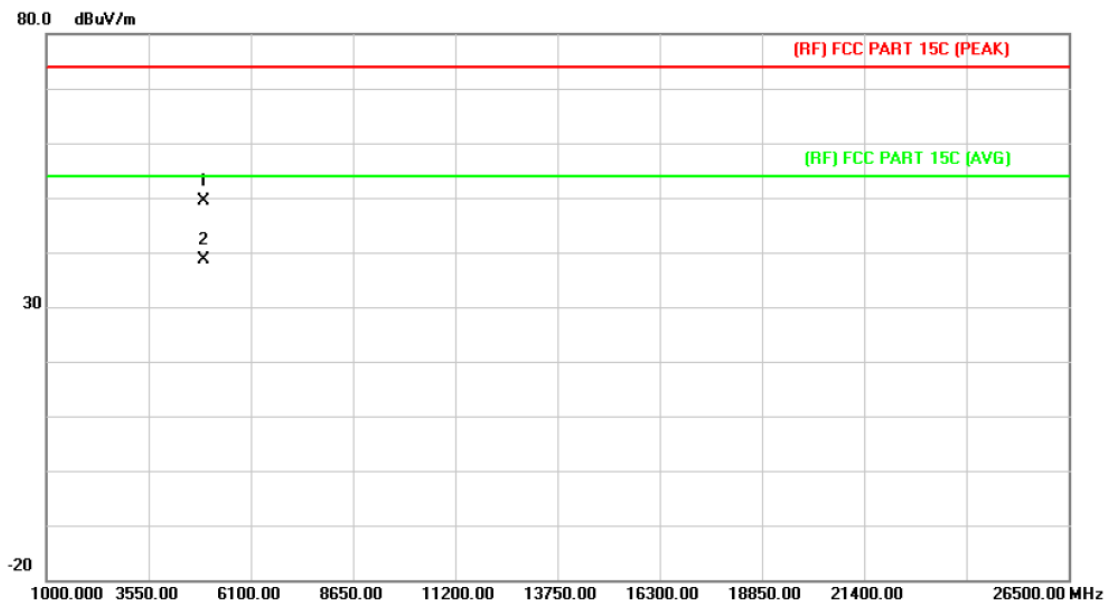
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.970	41.21	8.21	49.42	74.00	-24.58	peak
2	*	4873.970	30.46	8.21	38.67	54.00	-15.33	AVG

Emission Level= Read Level+ Correct Factor

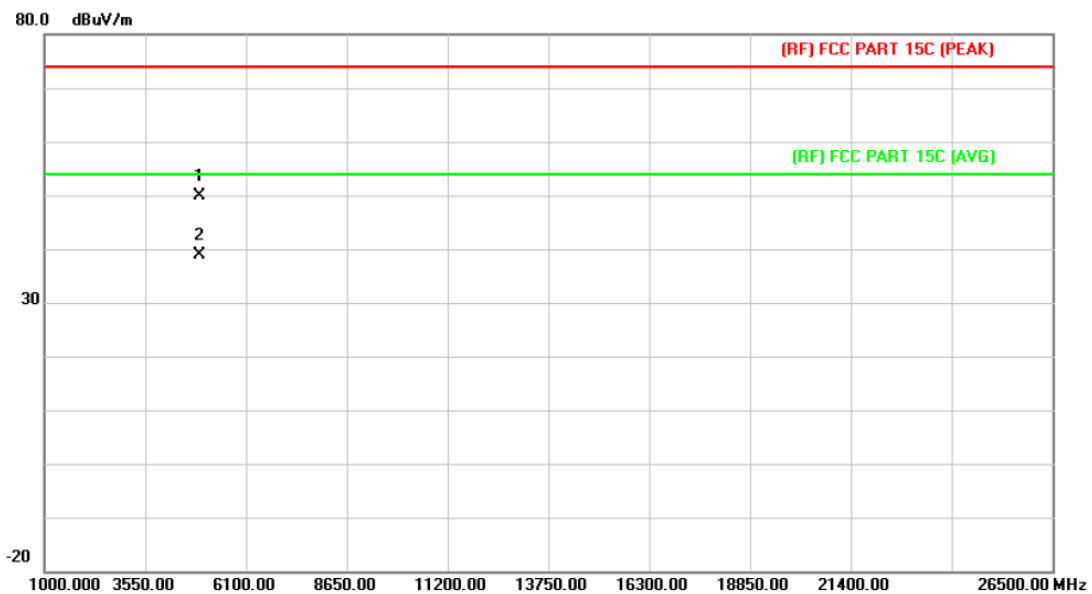
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.970	41.05	8.22	49.27	74.00	-24.73	peak
2	*	4923.970	30.40	8.22	38.62	54.00	-15.38	AVG

Emission Level= Read Level+ Correct Factor

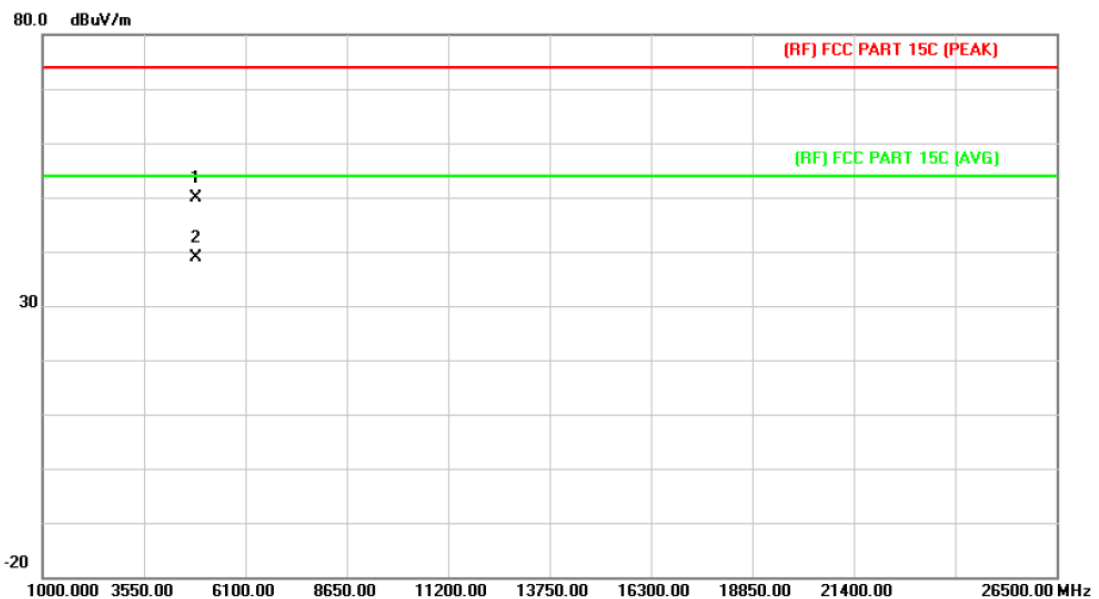
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.970	41.57	8.22	49.79	74.00	-24.21	peak
2	*	4923.970	30.61	8.22	38.83	54.00	-15.17	AVG

Emission Level= Read Level+ Correct Factor

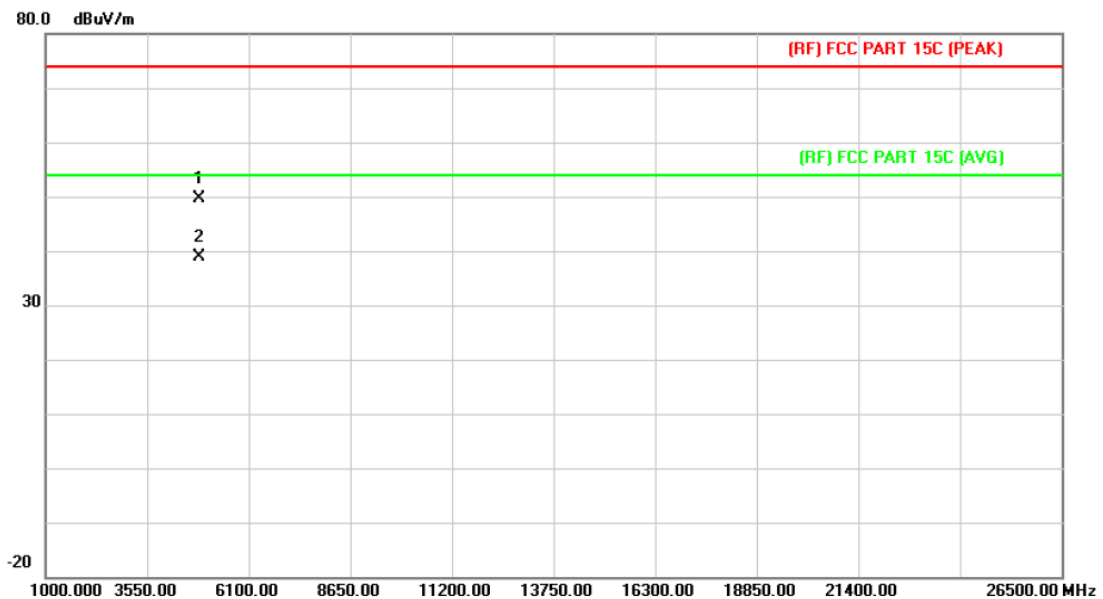
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4843.970	41.58	8.20	49.78	74.00	-24.22	peak
2	*	4843.970	30.72	8.20	38.92	54.00	-15.08	AVG

Emission Level= Read Level+ Correct Factor

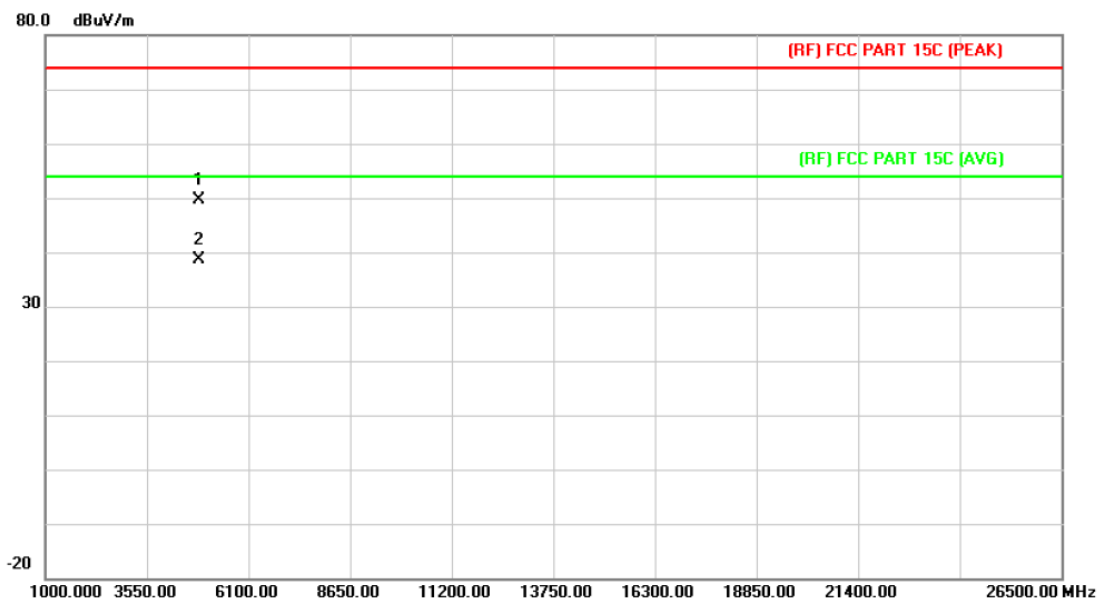
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4843.970	41.48	8.20	49.68	74.00	-24.32	peak
2	*	4843.970	30.63	8.20	38.83	54.00	-15.17	AVG

Emission Level= Read Level+ Correct Factor

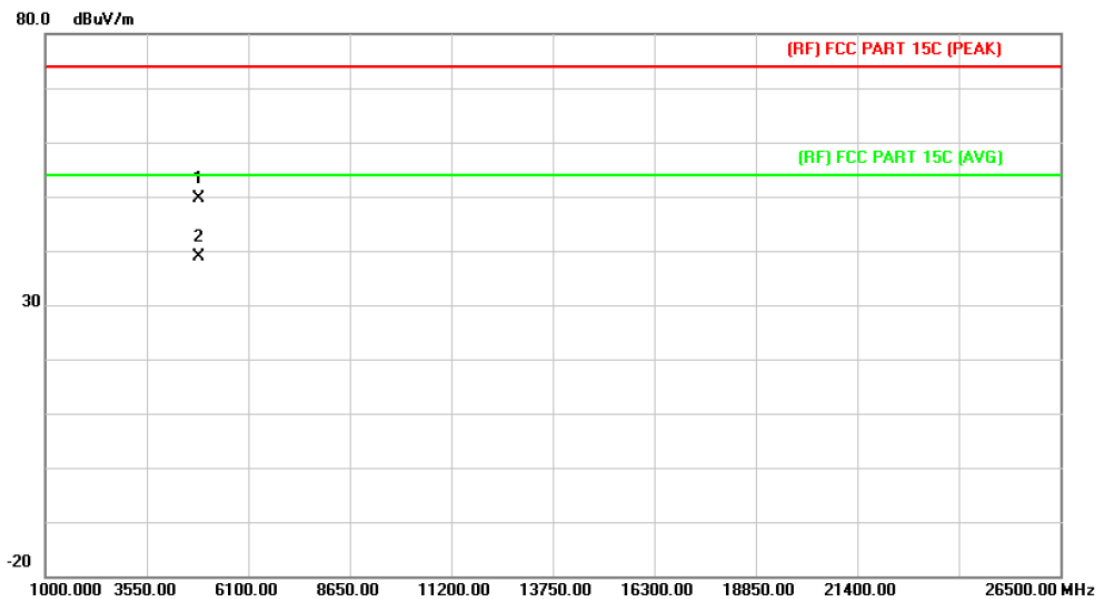
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.970	41.42	8.21	49.63	74.00	-24.37	peak
2	*	4873.970	30.37	8.21	38.58	54.00	-15.42	AVG

Emission Level= Read Level+ Correct Factor

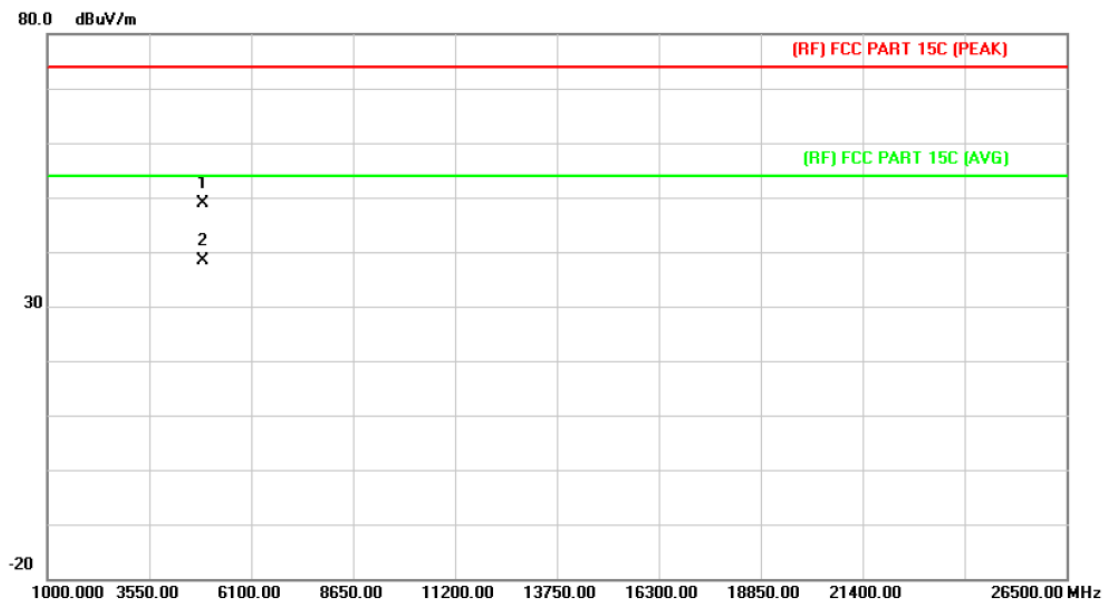
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.970	41.40	8.21	49.61	74.00	-24.39	peak
2	*	4873.970	30.63	8.21	38.84	54.00	-15.16	AVG

Emission Level= Read Level+ Correct Factor

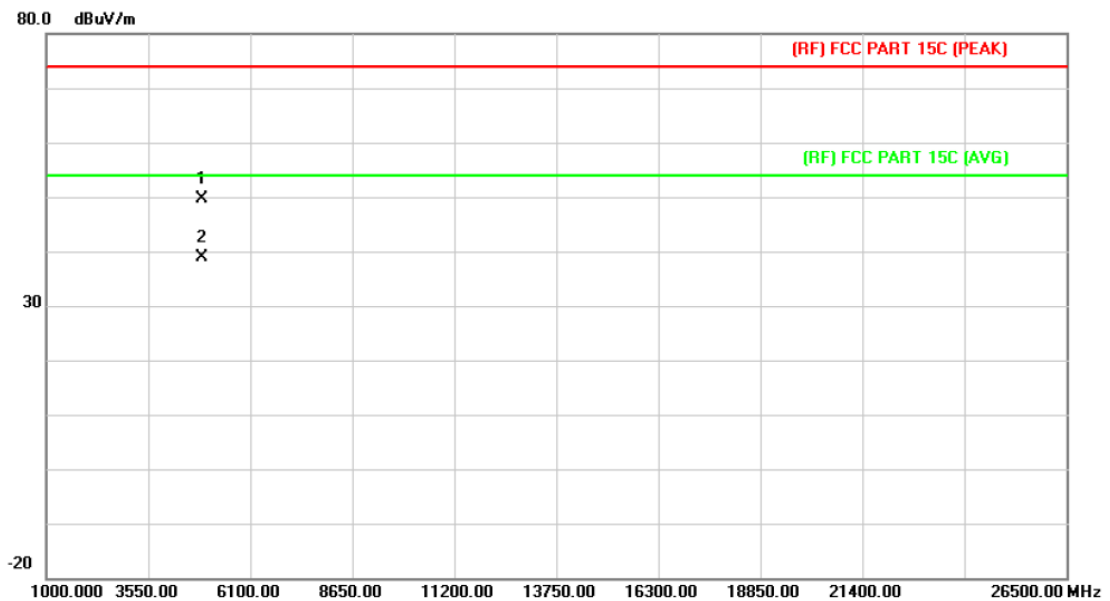
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4903.962	40.74	8.21	48.95	74.00	-25.05	peak
2	*	4903.962	30.29	8.21	38.50	54.00	-15.50	AVG

Emission Level= Read Level+ Correct Factor

EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4903.970	41.39	8.21	49.60	74.00	-24.40	peak
2	*	4903.970	30.69	8.21	38.90	54.00	-15.10	AVG

Emission Level= Read Level+ Correct Factor

5. Restricted Bands Requirement

5.1 Test Standard and Limit

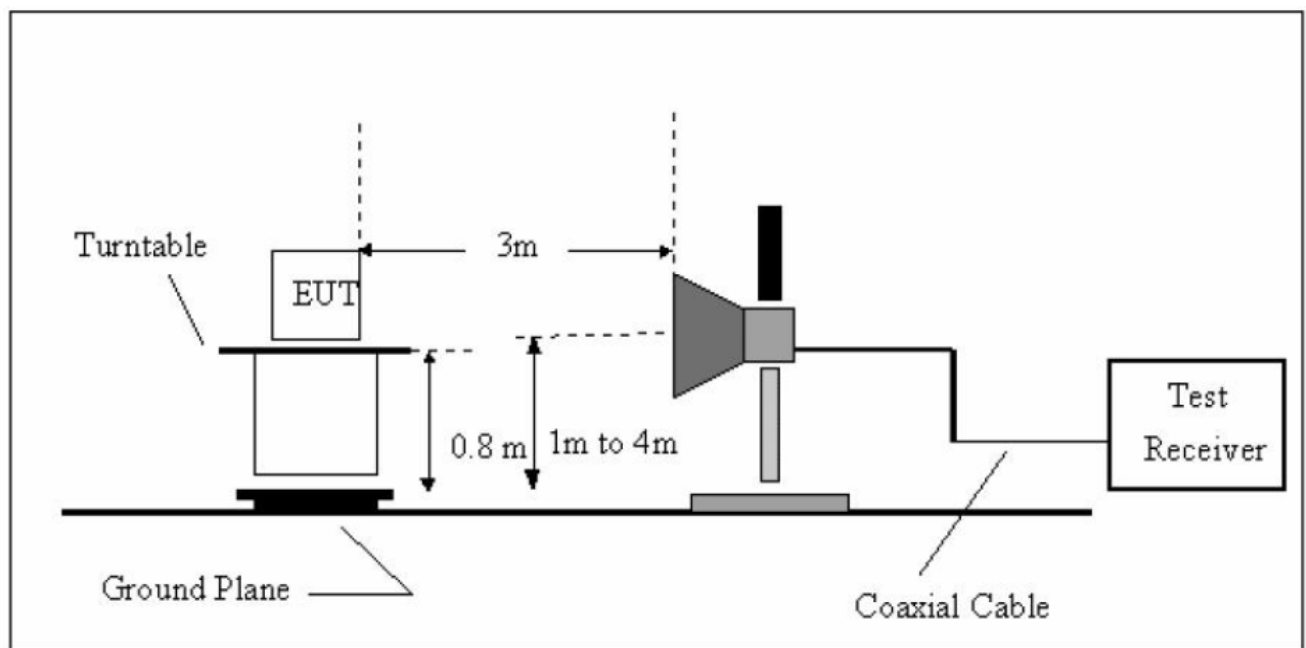
5.1.1 Test Standard

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.

Peak Detection:

Set the center frequency of the emission to be measured (within 2 MHz of the authorized band edge), set span to 2 MHz, with RBW/VBW=100 kHz/300 kHz, detector mode is Peak, then use band power function to measure the Bandwidth of 1 MHz.

Average Detection (EUT transmitting continuously and duty cycle $\geq$ 98 percent):

Set the center frequency of the emission to be measured (within 2 MHz of the authorized band edge), set span to 2 MHz, with RBW/VBW=100 kHz/300 kHz, detector mode is RMS or Average, then use band power function to measure the Bandwidth of 1 MHz.

(5) 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.

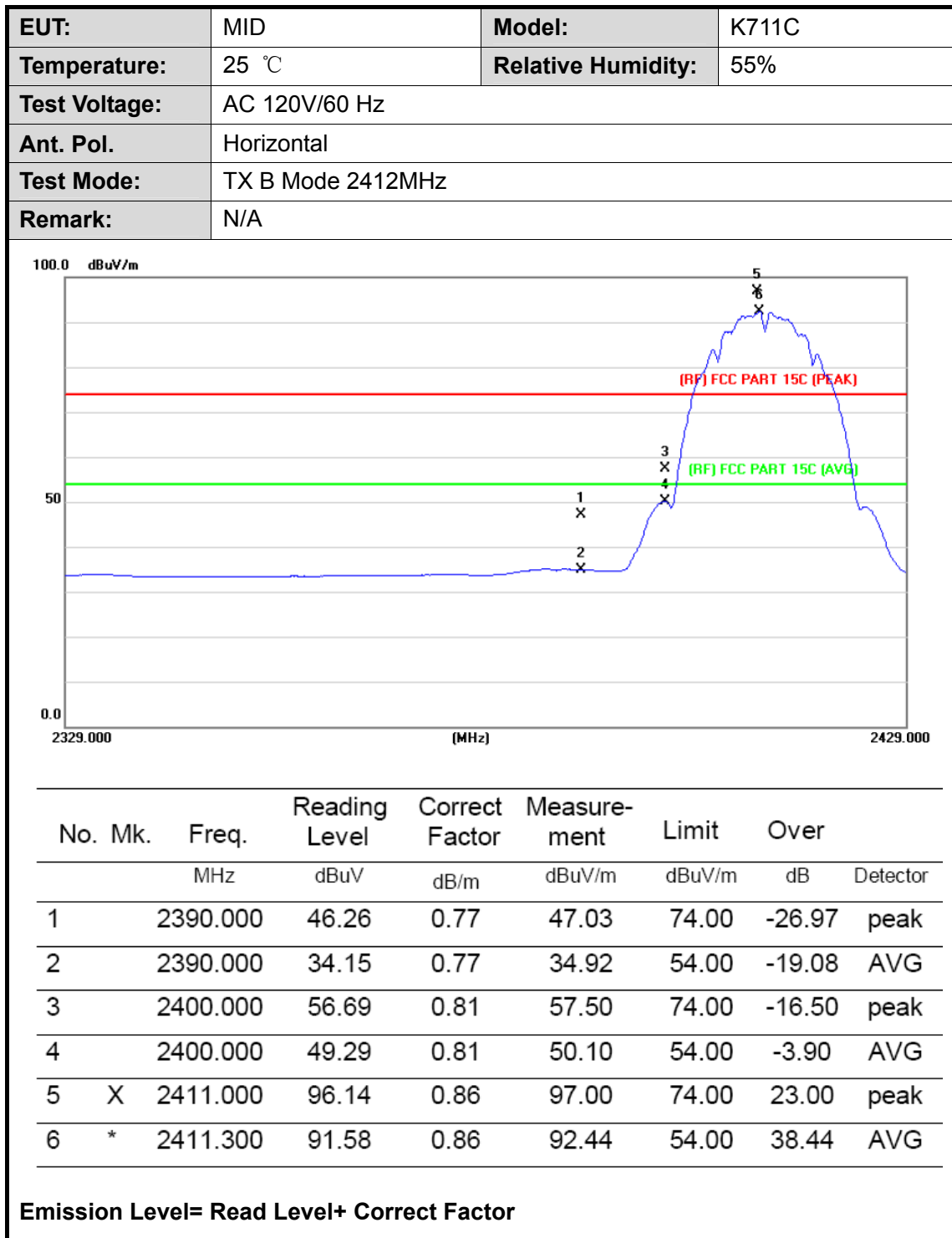
5.5 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Mar. 20, 2014	Mar. 19, 2014
Spectrum Analyzer	Rohde & Schwarz	FSP30	DE25181	Aug. 10, 2013	Aug.09, 2014
EMI Test Receiver	Rohde & Schwarz	ESCI	101165	Aug. 10, 2013	Aug.09, 2014
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

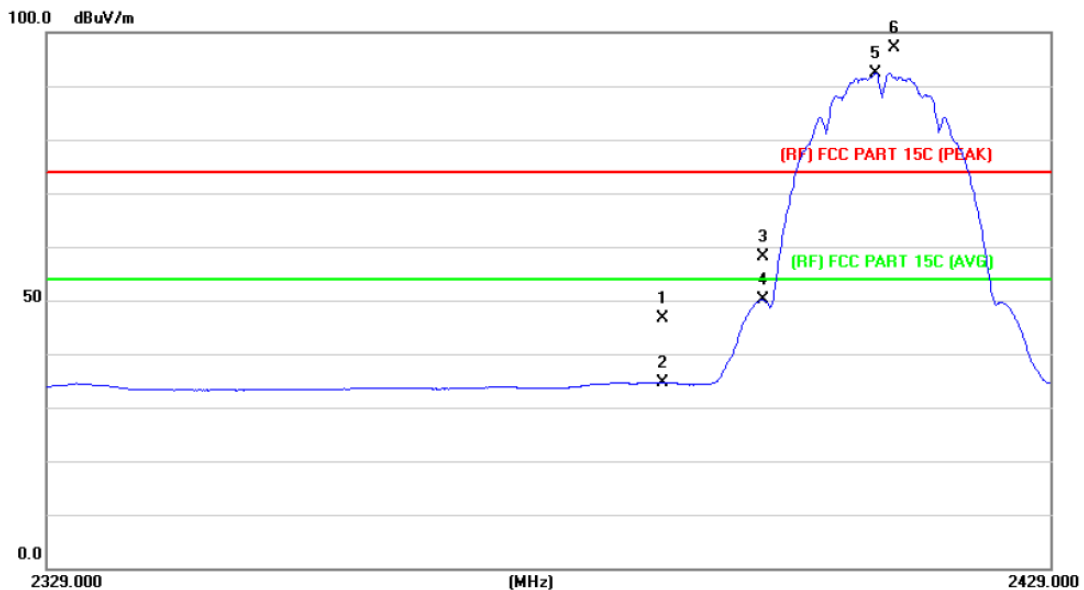
5.6 Test Data

Please see the next page.

(1) Radiation Test



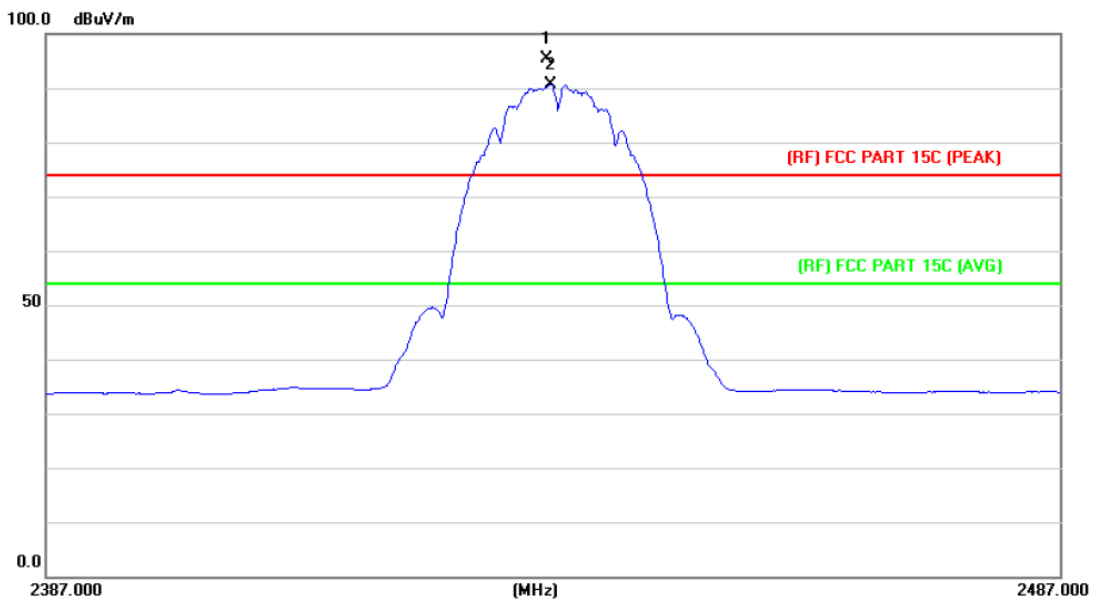
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.89	0.77	46.66	74.00	-27.34	peak
2		2390.000	33.84	0.77	34.61	54.00	-19.39	AVG
3		2400.000	57.24	0.81	58.05	74.00	-15.95	peak
4		2400.000	49.23	0.81	50.04	54.00	-3.96	AVG
5	*	2411.300	91.59	0.86	92.45	54.00	38.45	AVG
6	X	2413.100	96.29	0.86	97.15	74.00	23.15	peak

Emission Level= Read Level+ Correct Factor

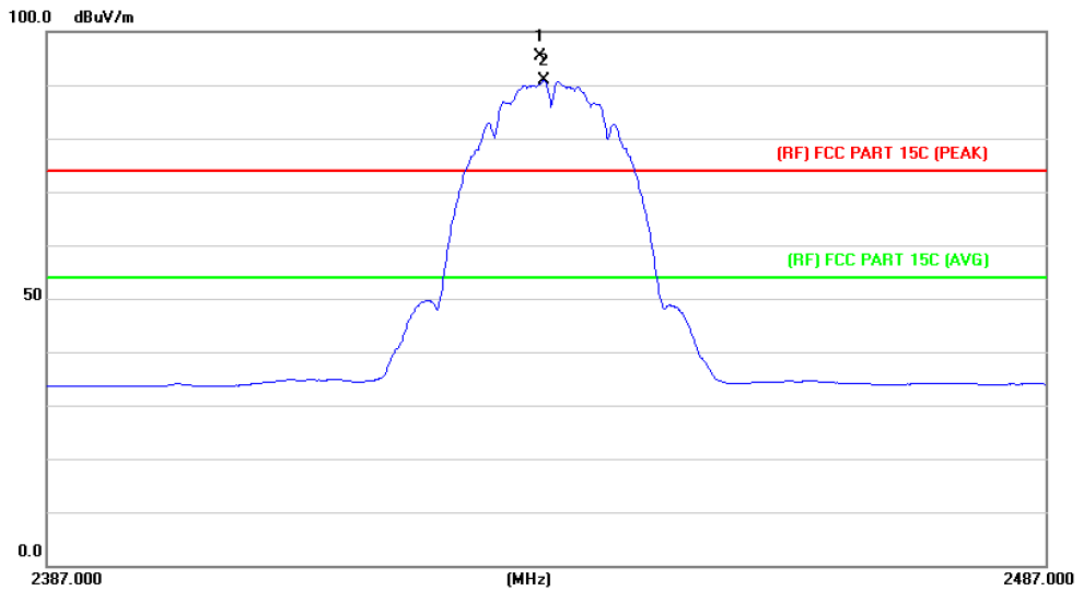
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2435.900	94.41	0.97	95.38	74.00	21.38	peak
2	*	2436.300	89.76	0.97	90.73	54.00	36.73	AVG

Emission Level= Read Level+ Correct Factor

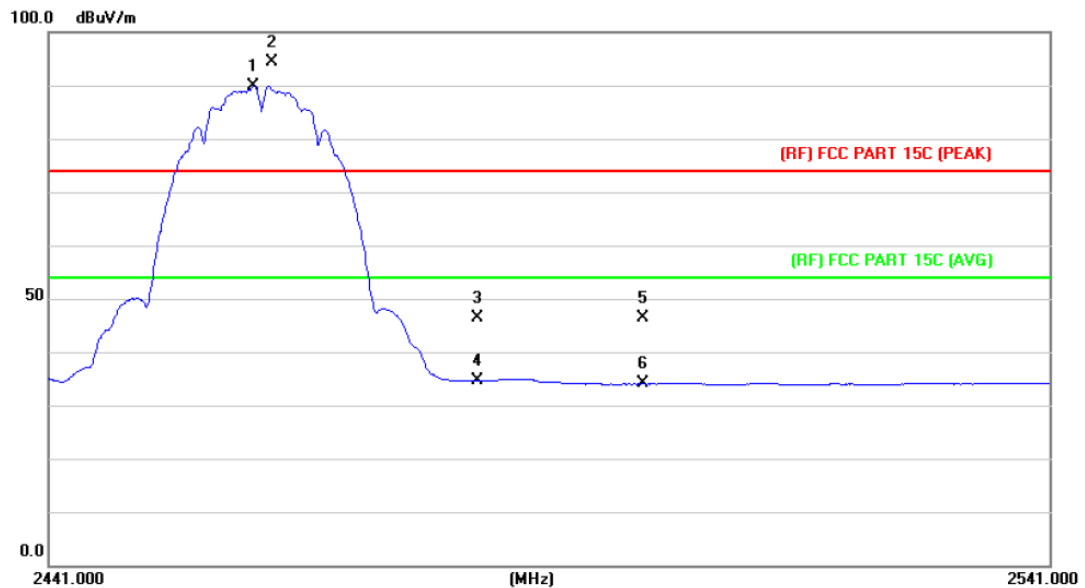
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2435.900	94.43	0.97	95.40	74.00	21.40	peak
2	*	2436.300	89.83	0.97	90.80	54.00	36.80	AVG

Emission Level= Read Level+ Correct Factor

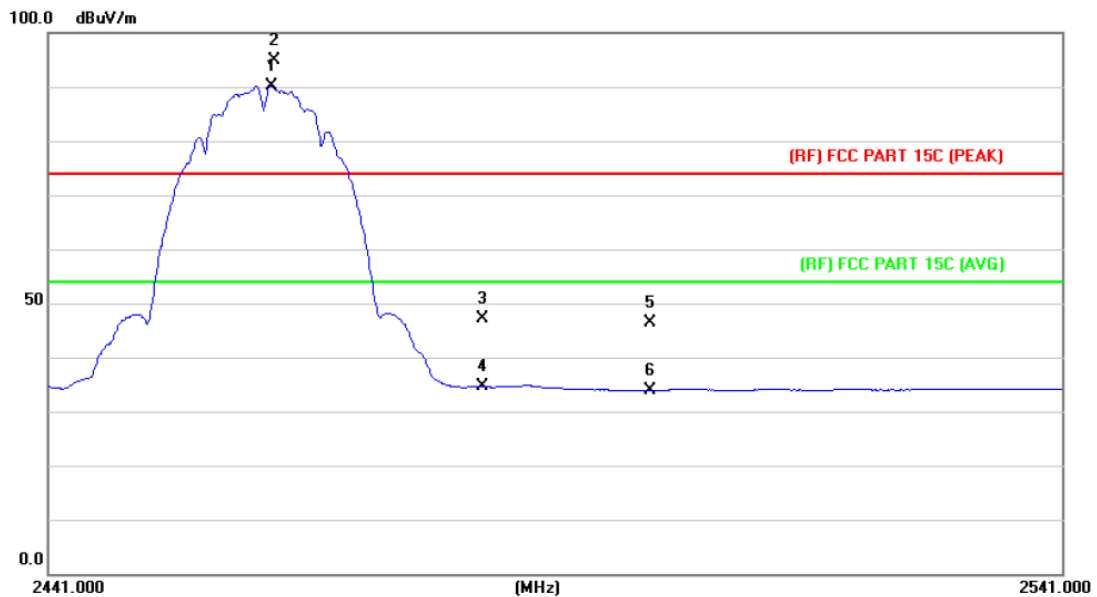
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2461.200	88.82	1.07	89.89	54.00	35.89	AVG
2	X	2463.000	93.42	1.08	94.50	74.00	20.50	peak
3		2483.500	45.25	1.17	46.42	74.00	-27.58	peak
4		2483.500	33.51	1.17	34.68	54.00	-19.32	AVG
5		2500.000	45.17	1.23	46.40	74.00	-27.60	peak
6		2500.000	32.78	1.23	34.01	54.00	-19.99	AVG

Emission Level= Read Level+ Correct Factor

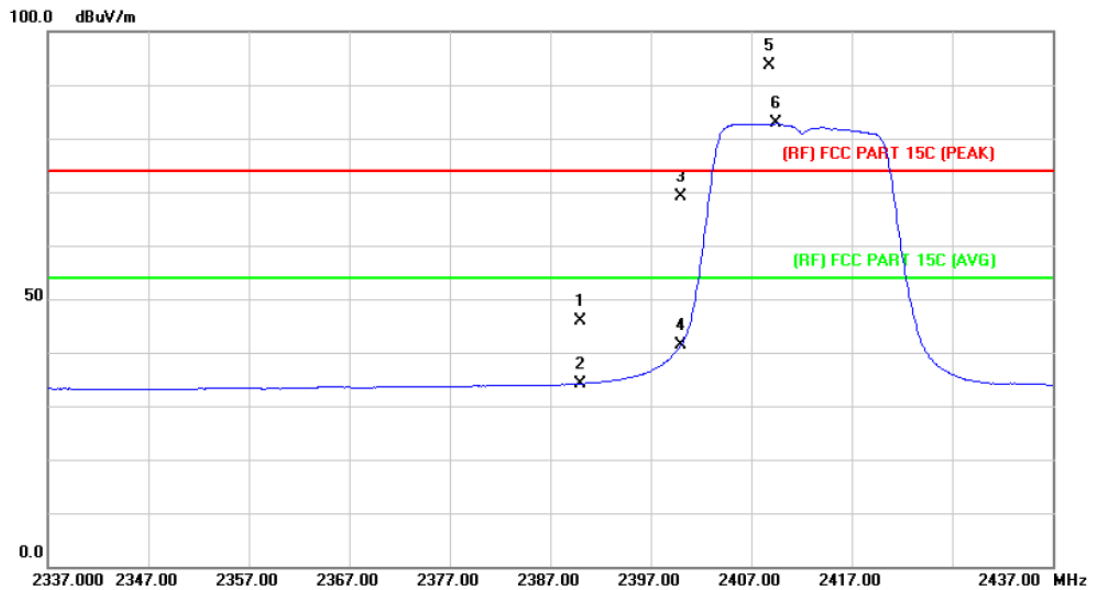
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2462.700	89.08	1.08	90.16	54.00	36.16	AVG
2	X	2463.000	93.74	1.08	94.82	74.00	20.82	peak
3		2483.500	45.93	1.17	47.10	74.00	-26.90	peak
4		2483.500	33.40	1.17	34.57	54.00	-19.43	AVG
5		2500.000	45.23	1.23	46.46	74.00	-27.54	peak
6		2500.000	32.70	1.23	33.93	54.00	-20.07	AVG

Emission Level= Read Level+ Correct Factor

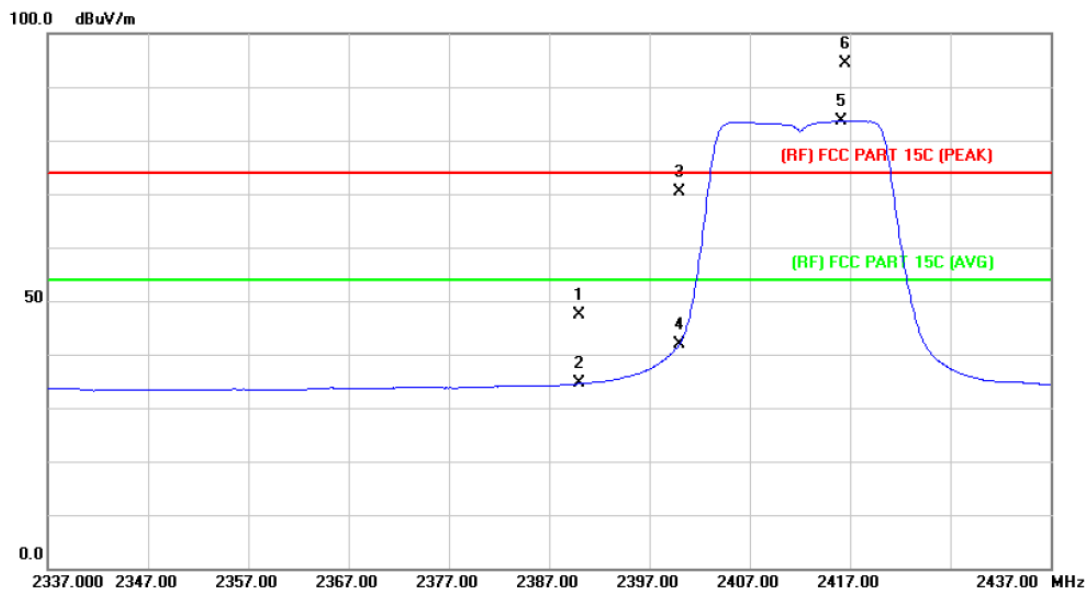
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	45.11	0.77	45.88	74.00	-28.12	peak
2		2390.000	33.43	0.77	34.20	54.00	-19.80	AVG
3		2400.000	68.30	0.81	69.11	74.00	-4.89	peak
4		2400.000	40.64	0.81	41.45	54.00	-12.55	AVG
5	X	2408.800	92.78	0.85	93.63	74.00	19.63	peak
6	*	2409.500	81.95	0.85	82.80	54.00	28.80	AVG

Emission Level= Read Level+ Correct Factor

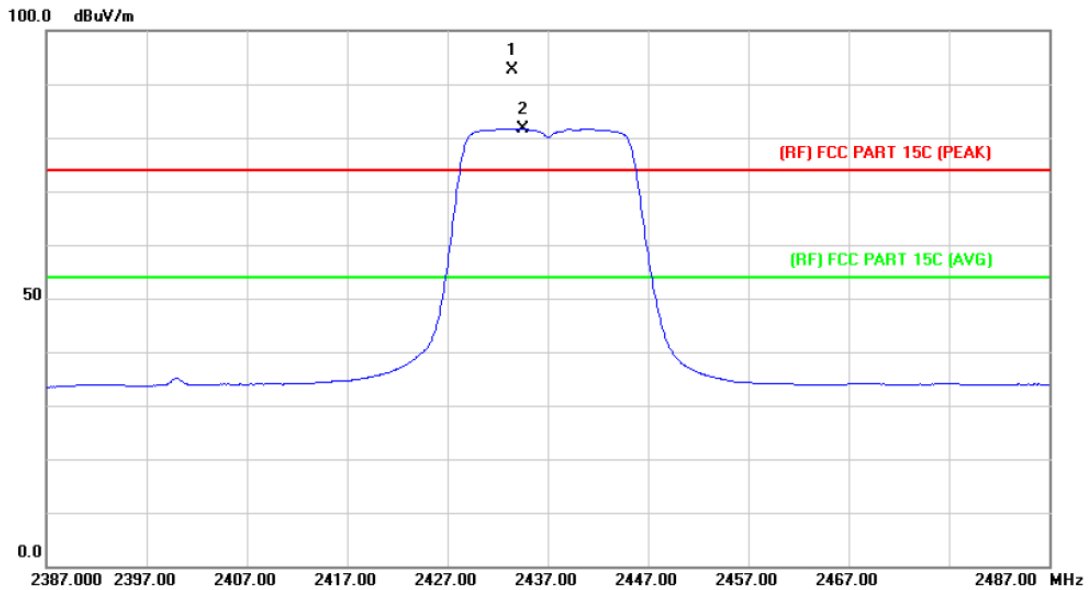
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	46.56	0.77	47.33	74.00	-26.67	peak
2		2390.000	33.78	0.77	34.55	54.00	-19.45	AVG
3		2400.000	69.49	0.81	70.30	74.00	-3.70	peak
4		2400.000	41.13	0.81	41.94	54.00	-12.06	AVG
5	*	2416.200	82.82	0.88	83.70	54.00	29.70	AVG
6	X	2416.600	93.40	0.88	94.28	74.00	20.28	peak

Emission Level= Read Level+ Correct Factor

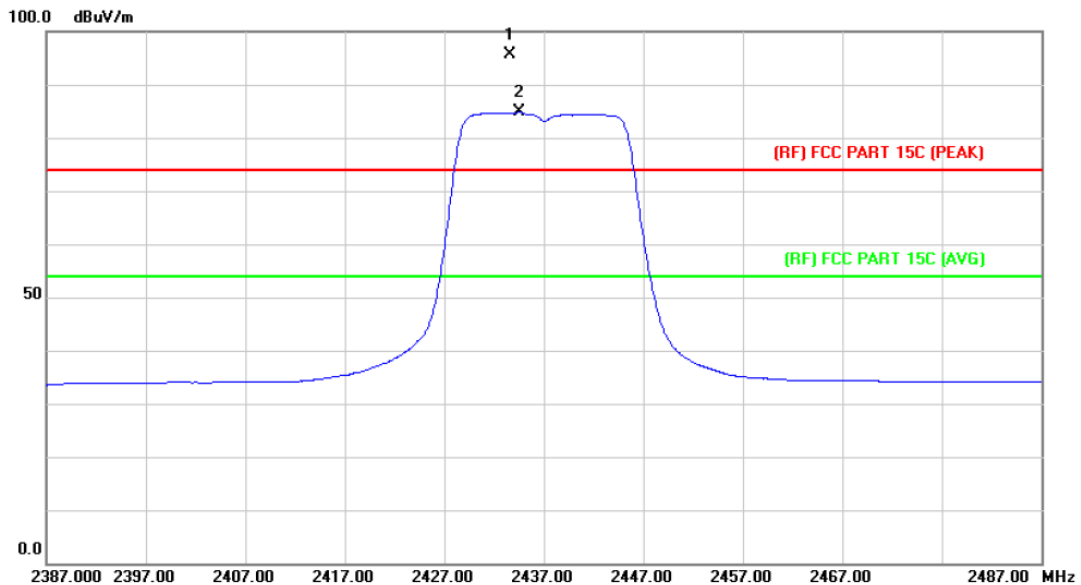
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2437MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2433.500	91.57	0.96	92.53	74.00	18.53	peak
2	*	2434.500	80.74	0.97	81.71	54.00	27.71	AVG

Emission Level= Read Level+ Correct Factor

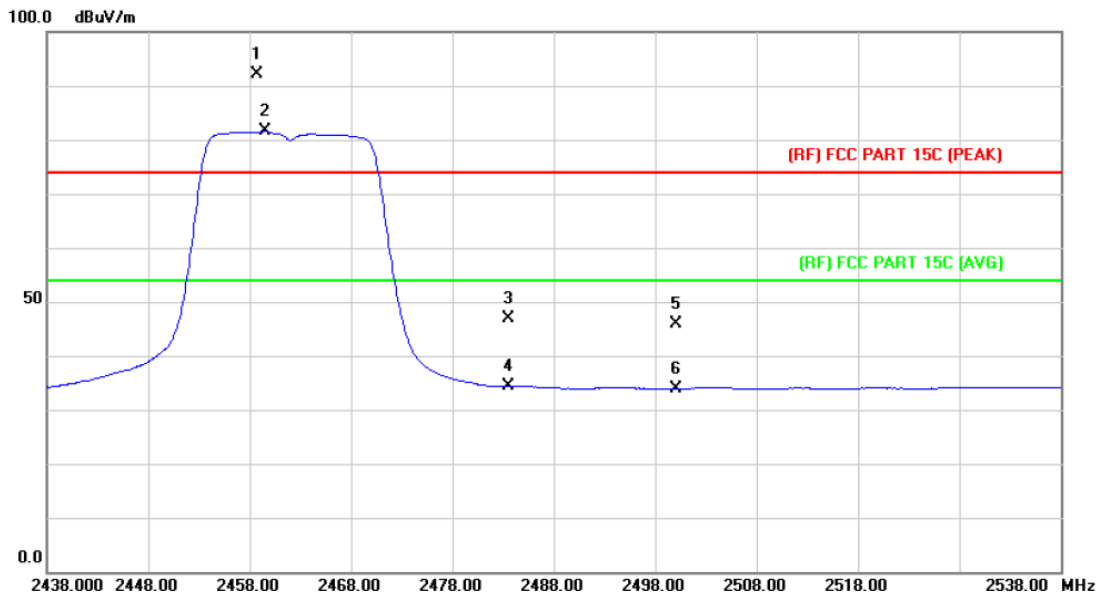
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2437MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2433.600	94.63	0.96	95.59	74.00	21.59	peak
2	*	2434.500	83.82	0.97	84.79	54.00	30.79	AVG

Emission Level= Read Level+ Correct Factor

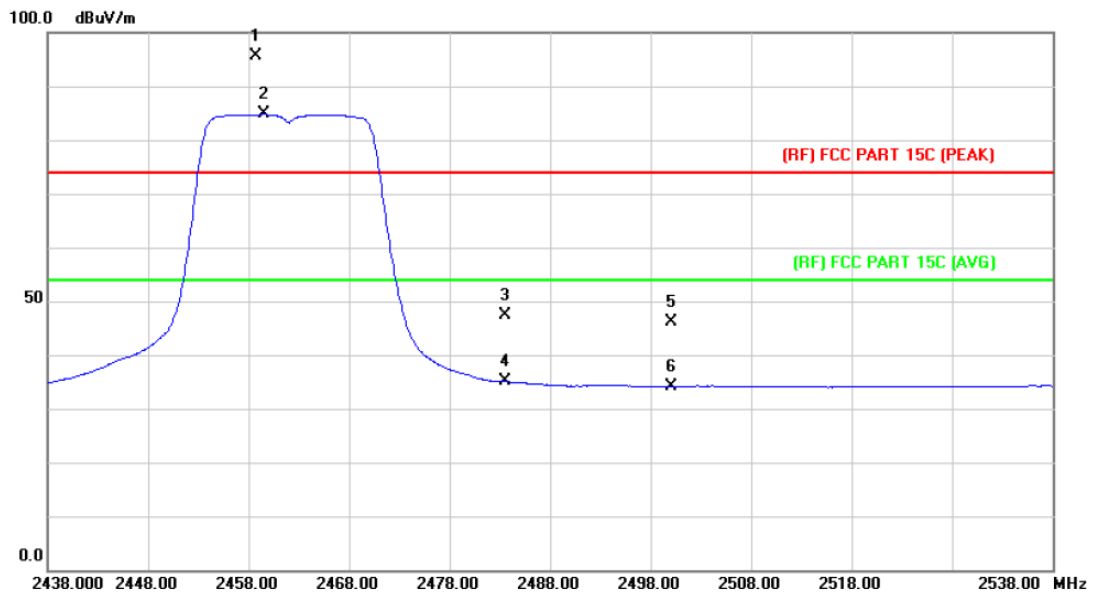
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2458.700	91.19	1.06	92.25	74.00	18.25	peak
2	*	2459.500	80.48	1.06	81.54	54.00	27.54	AVG
3		2483.500	45.81	1.17	46.98	74.00	-27.02	peak
4		2483.500	33.24	1.17	34.41	54.00	-19.59	AVG
5		2500.000	44.68	1.23	45.91	74.00	-28.09	peak
6		2500.000	32.65	1.23	33.88	54.00	-20.12	AVG

Emission Level= Read Level+ Correct Factor

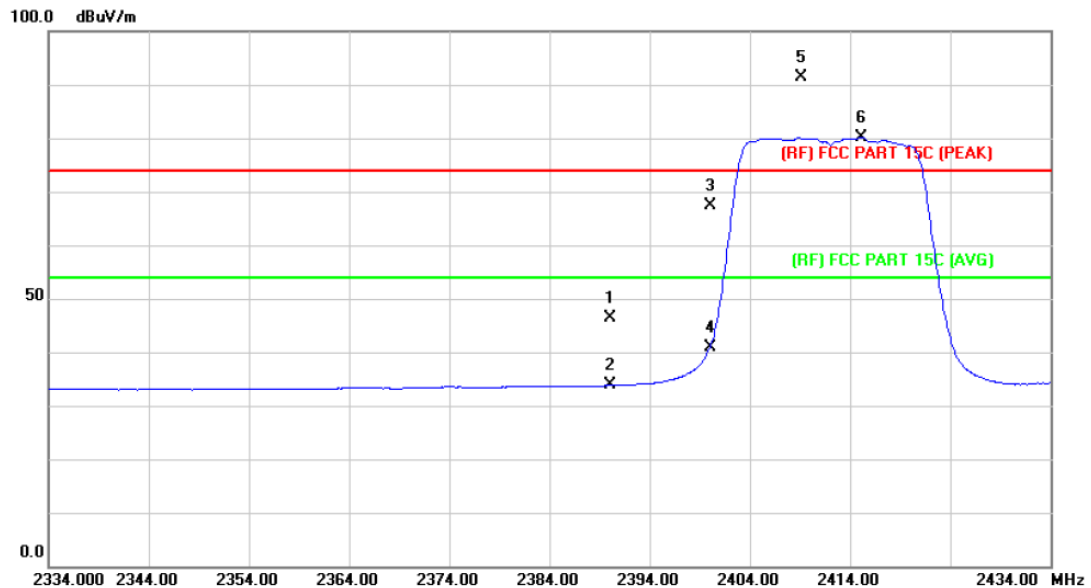
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2458.700	94.51	1.06	95.57	74.00	21.57	peak
2	*	2459.500	83.78	1.06	84.84	54.00	30.84	AVG
3		2483.500	46.16	1.17	47.33	74.00	-26.67	peak
4		2483.500	33.94	1.17	35.11	54.00	-18.89	AVG
5		2500.000	44.97	1.23	46.20	74.00	-27.80	peak
6		2500.000	32.88	1.23	34.11	54.00	-19.89	AVG

Emission Level= Read Level+ Correct Factor

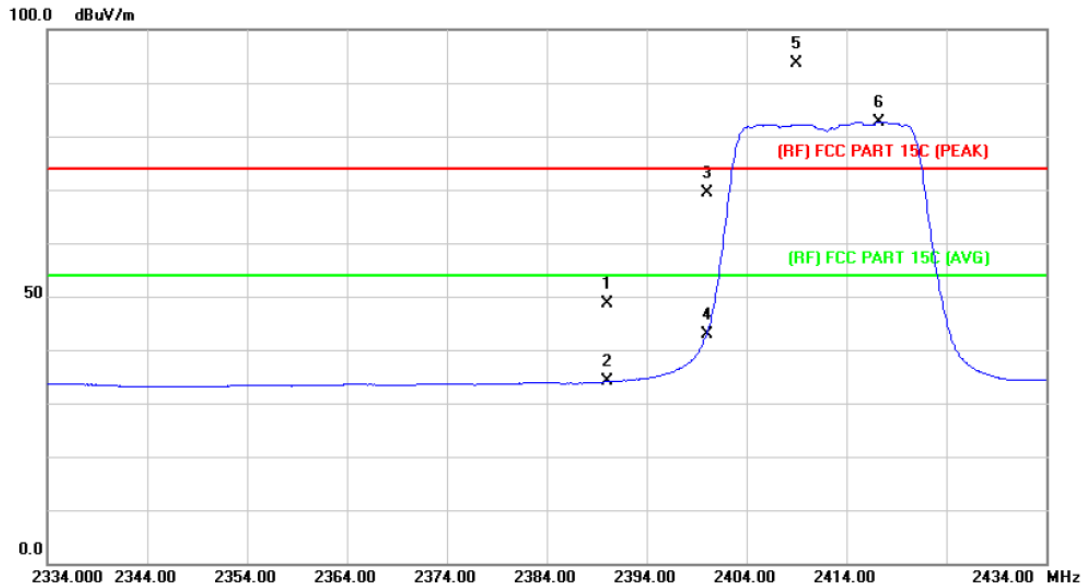
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	45.49	0.77	46.26	74.00	-27.74	peak
2		2390.000	33.03	0.77	33.80	54.00	-20.20	AVG
3		2400.000	66.48	0.81	67.29	74.00	-6.71	peak
4		2400.000	40.15	0.81	40.96	54.00	-13.04	AVG
5	X	2409.100	90.62	0.85	91.47	74.00	17.47	peak
6	*	2415.100	79.22	0.88	80.10	54.00	26.10	AVG

Emission Level= Read Level+ Correct Factor

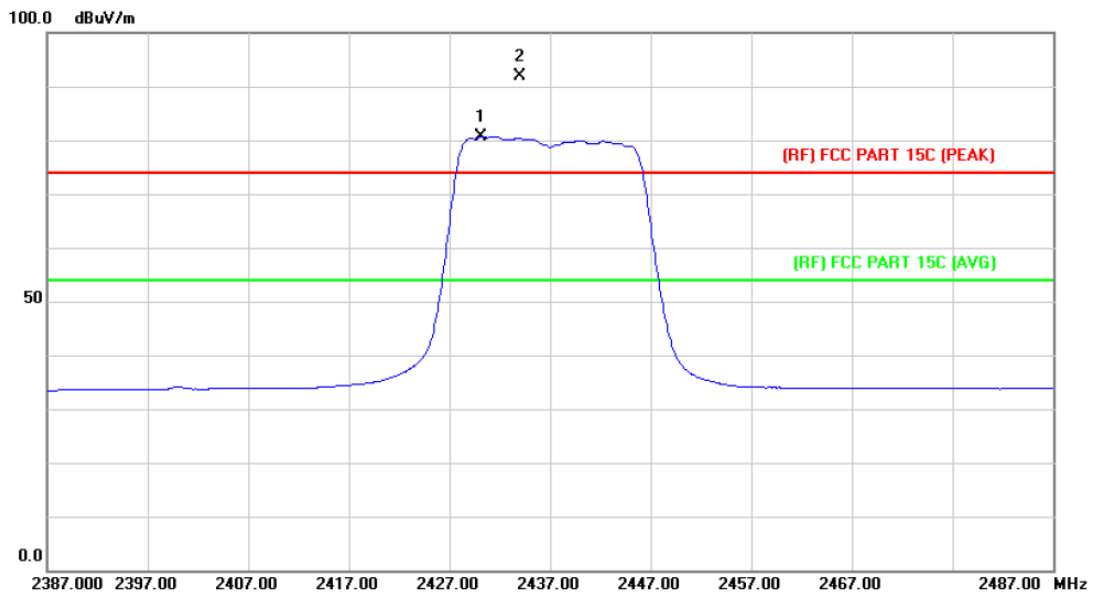
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	47.95	0.77	48.72	74.00	-25.28	peak
2		2390.000	33.25	0.77	34.02	54.00	-19.98	AVG
3		2400.000	68.57	0.81	69.38	74.00	-4.62	peak
4		2400.000	42.13	0.81	42.94	54.00	-11.06	AVG
5	X	2409.000	92.74	0.85	93.59	74.00	19.59	peak
6	*	2417.300	81.79	0.89	82.68	54.00	28.68	AVG

Emission Level= Read Level+ Correct Factor

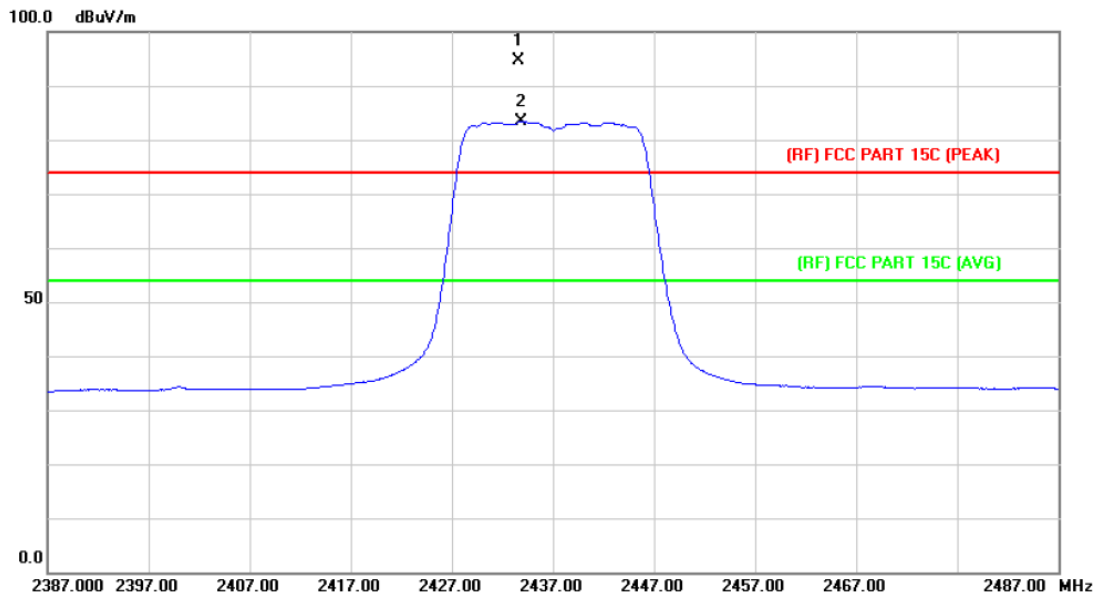
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2430.200	79.71	0.94	80.65	54.00	26.65	AVG
2	X	2434.000	90.91	0.96	91.87	74.00	17.87	peak

Emission Level= Read Level+ Correct Factor

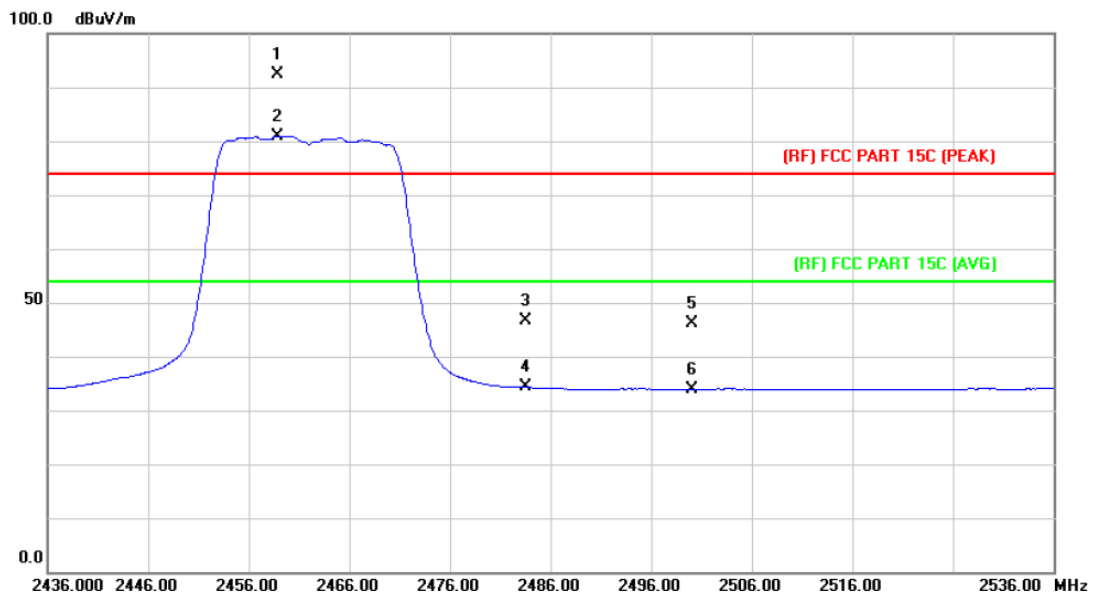
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2433.600	93.65	0.96	94.61	74.00	20.61	peak
2	*	2433.800	82.40	0.96	83.36	54.00	29.36	AVG

Emission Level= Read Level+ Correct Factor

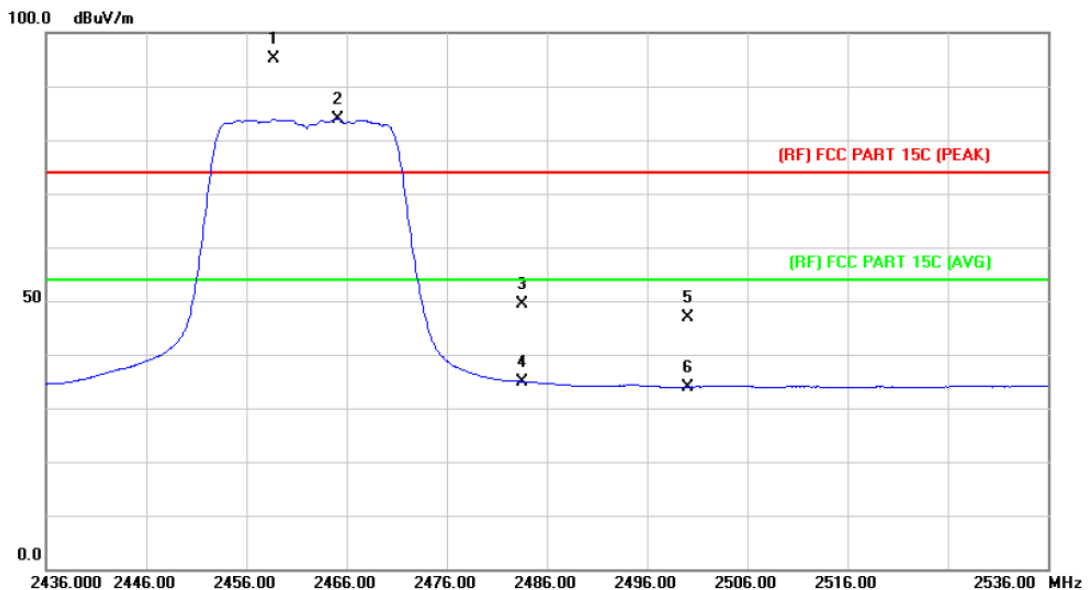
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2458.800	91.36	1.06	92.42	74.00	18.42	peak
2	*	2458.800	79.88	1.06	80.94	54.00	26.94	AVG
3		2483.500	45.37	1.17	46.54	74.00	-27.46	peak
4		2483.500	33.18	1.17	34.35	54.00	-19.65	AVG
5		2500.000	44.94	1.23	46.17	74.00	-27.83	peak
6		2500.000	32.58	1.23	33.81	54.00	-20.19	AVG

Emission Level= Read Level+ Correct Factor

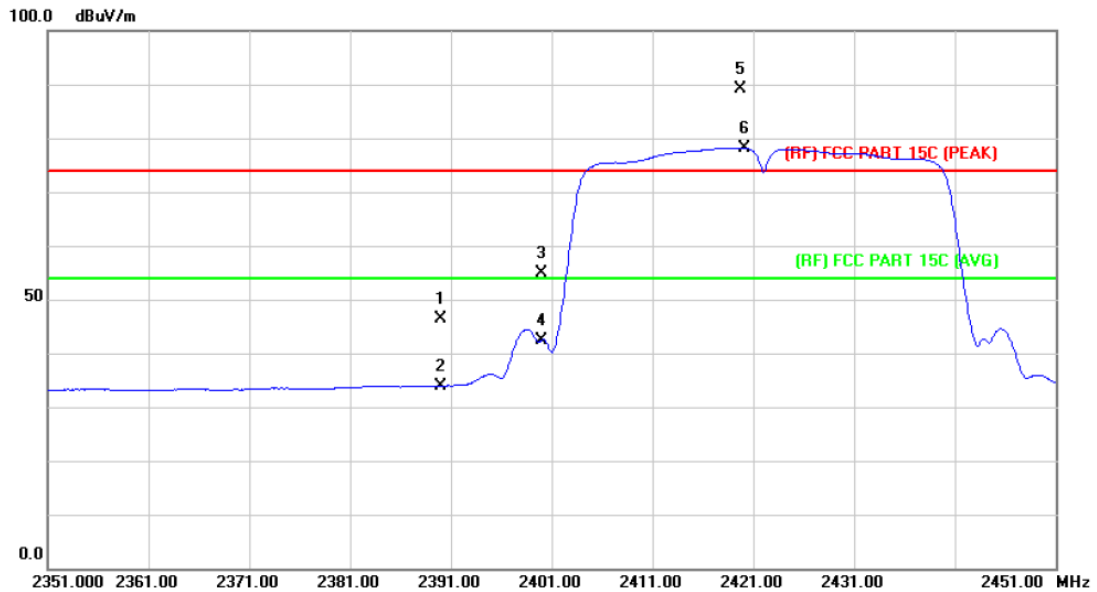
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2458.700	94.18	1.06	95.24	74.00	21.24	peak
2	*	2465.200	82.73	1.09	83.82	54.00	29.82	AVG
3		2483.500	48.16	1.17	49.33	74.00	-24.67	peak
4		2483.500	33.78	1.17	34.95	54.00	-19.05	AVG
5		2500.000	45.67	1.23	46.90	74.00	-27.10	peak
6		2500.000	32.76	1.23	33.99	54.00	-20.01	AVG

Emission Level= Read Level+ Correct Factor

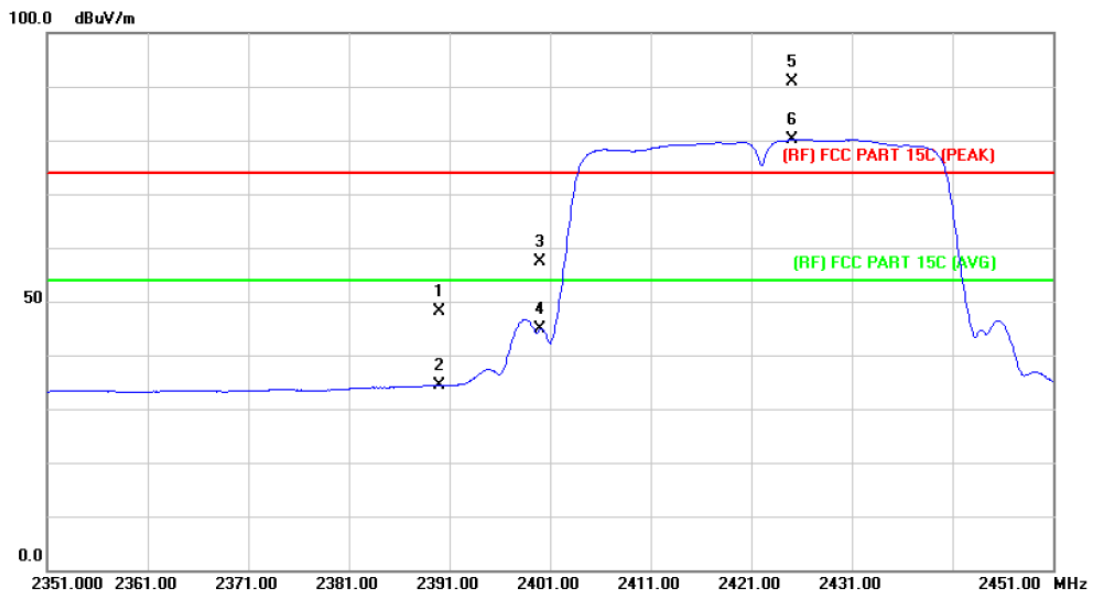
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	45.64	0.77	46.41	74.00	-27.59	peak
2		2390.000	33.19	0.77	33.96	54.00	-20.04	AVG
3		2400.000	54.17	0.81	54.98	74.00	-19.02	peak
4		2400.000	41.68	0.81	42.49	54.00	-11.51	AVG
5	X	2419.700	88.34	0.89	89.23	74.00	15.23	peak
6	*	2420.200	77.25	0.89	78.14	54.00	24.14	AVG

Emission Level= Read Level+ Correct Factor

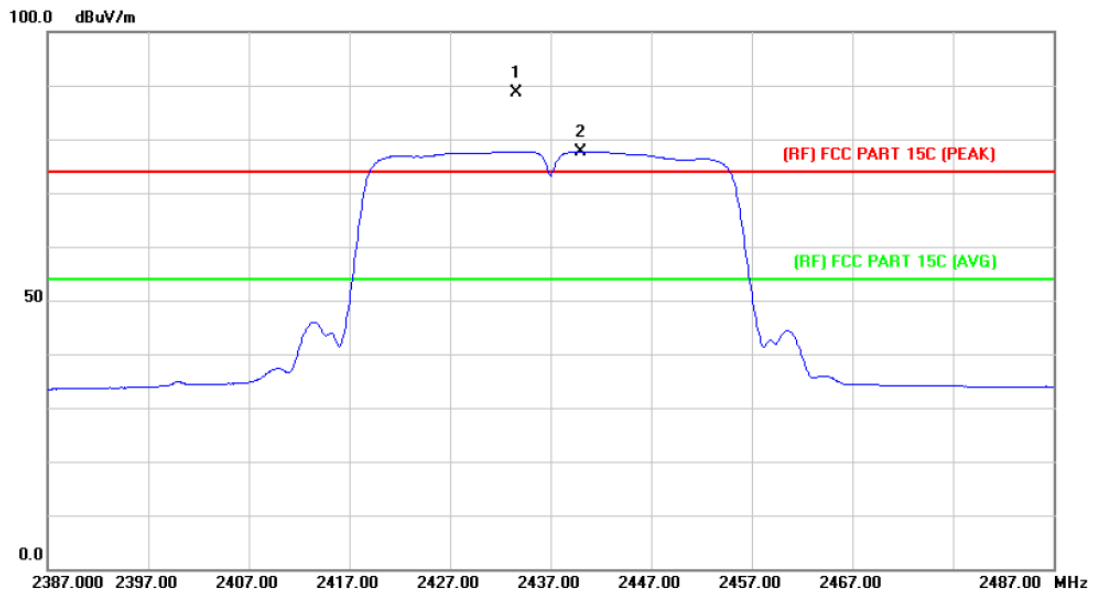
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	47.33	0.77	48.10	74.00	-25.90	peak
2		2390.000	33.60	0.77	34.37	54.00	-19.63	AVG
3		2400.000	56.50	0.81	57.31	74.00	-16.69	peak
4		2400.000	43.96	0.81	44.77	54.00	-9.23	AVG
5	X	2425.000	90.06	0.93	90.99	74.00	16.99	peak
6	*	2425.100	79.14	0.93	80.07	54.00	26.07	AVG

Emission Level= Read Level+ Correct Factor

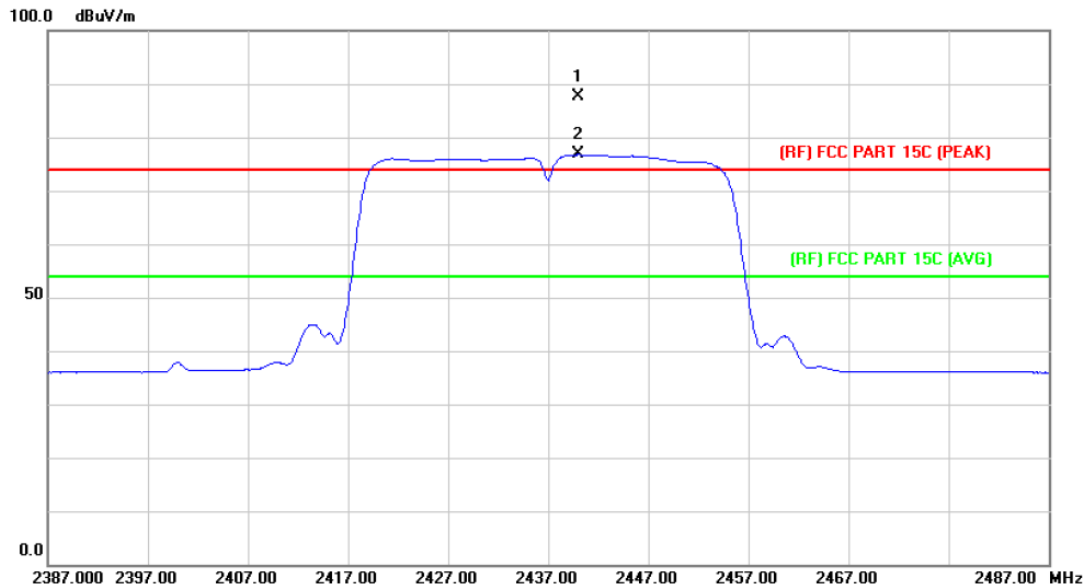
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2433.600	87.72	0.96	88.68	74.00	14.68	peak
2	*	2440.000	76.72	0.98	77.70	54.00	23.70	AVG

Emission Level= Read Level+ Correct Factor

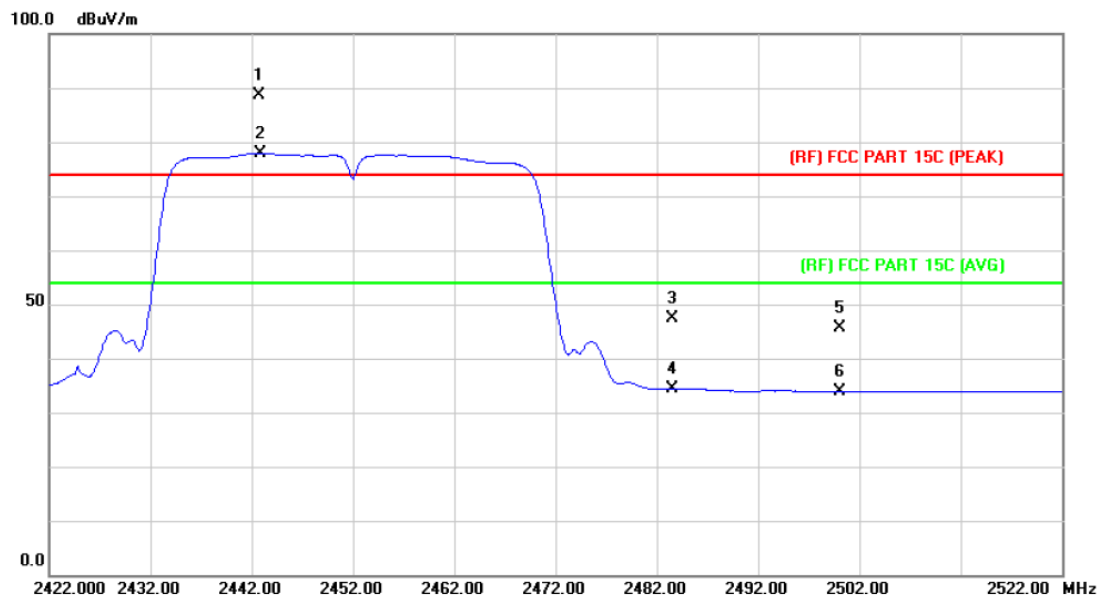
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2440.000	84.12	3.46	87.58	74.00	13.58	peak
2	*	2440.000	73.30	3.46	76.76	54.00	22.76	AVG

Emission Level= Read Level+ Correct Factor

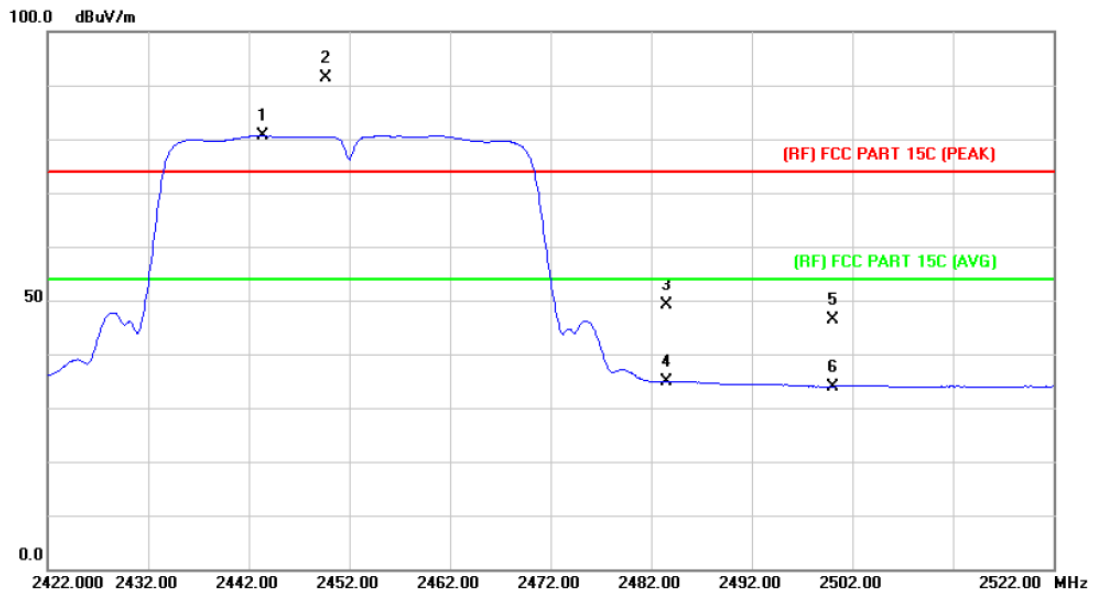
EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2442.700	87.66	0.99	88.65	74.00	14.65	peak
2	*	2442.800	76.95	0.99	77.94	54.00	23.94	AVG
3		2483.500	46.10	1.17	47.27	74.00	-26.73	peak
4		2483.500	33.13	1.17	34.30	54.00	-19.70	AVG
5		2500.000	44.44	1.23	45.67	74.00	-28.33	peak
6		2500.000	32.60	1.23	33.83	54.00	-20.17	AVG

Emission Level= Read Level+ Correct Factor

EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2443.400	79.61	1.00	80.61	54.00	26.61	AVG
2	X	2449.700	90.48	1.02	91.50	74.00	17.50	peak
3		2483.500	47.90	1.17	49.07	74.00	-24.93	peak
4		2483.500	33.76	1.17	34.93	54.00	-19.07	AVG
5		2500.000	45.05	1.23	46.28	74.00	-27.72	peak
6		2500.000	32.76	1.23	33.99	54.00	-20.01	AVG

Emission Level= Read Level+ Correct Factor

(2) Conducted Test

EUT:	MID	Model:	K711C
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz		
Peak Power Output (dBm)	Emission Read Value (dBm)	Result of Band Edge (dBc)	Band edge Limit (dBc)
-4.36	-48.08	43.72	>20
-4.46	-48.00	43.54	

Ref 20 dBm *Att 35 dB SWT 10 ms

Marker 1 [T1] -4.36 dBm

Marker 2 [T1] -48.89 dBm

Marker 4 [T1] -48.08 dBm

Center 2.38 GHz 10 MHz/ Span 100 MHz

Date: 28.MAR.2014 12:09:38

Ref 20 dBm *Att 35 dB SWT 10 ms

Marker 1 [T1] -4.46 dBm

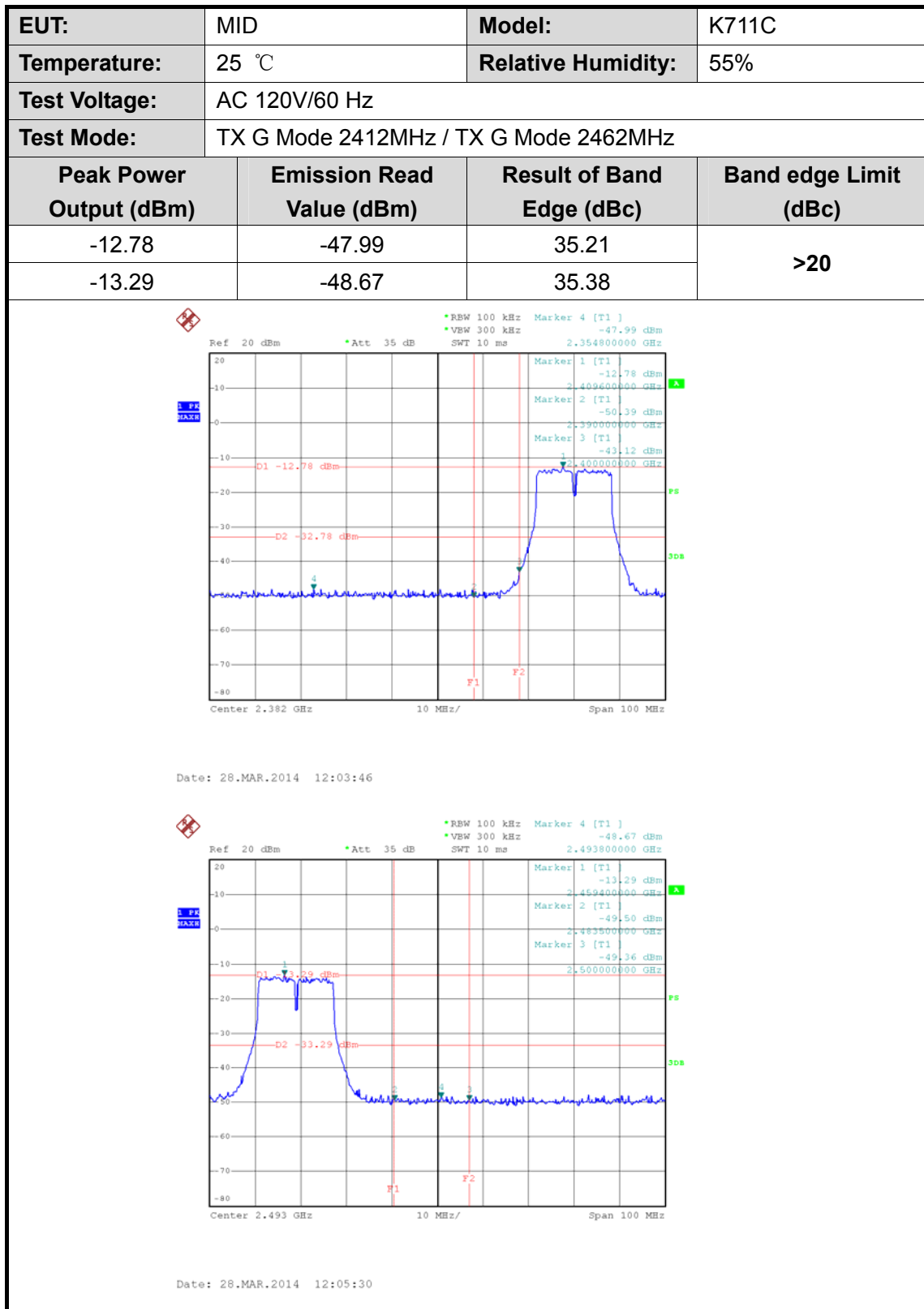
Marker 2 [T1] -49.71 dBm

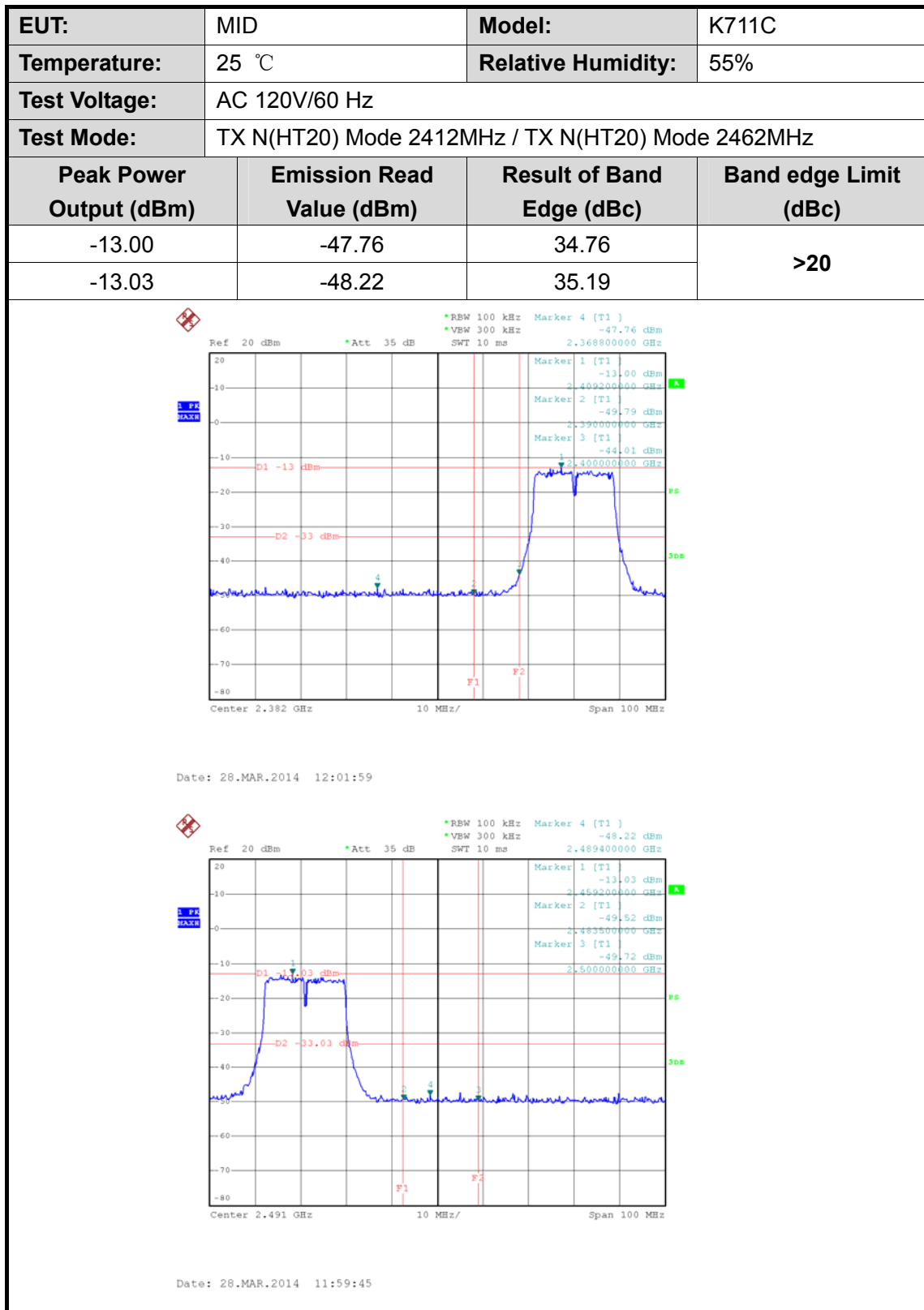
Marker 3 [T1] -49.54 dBm

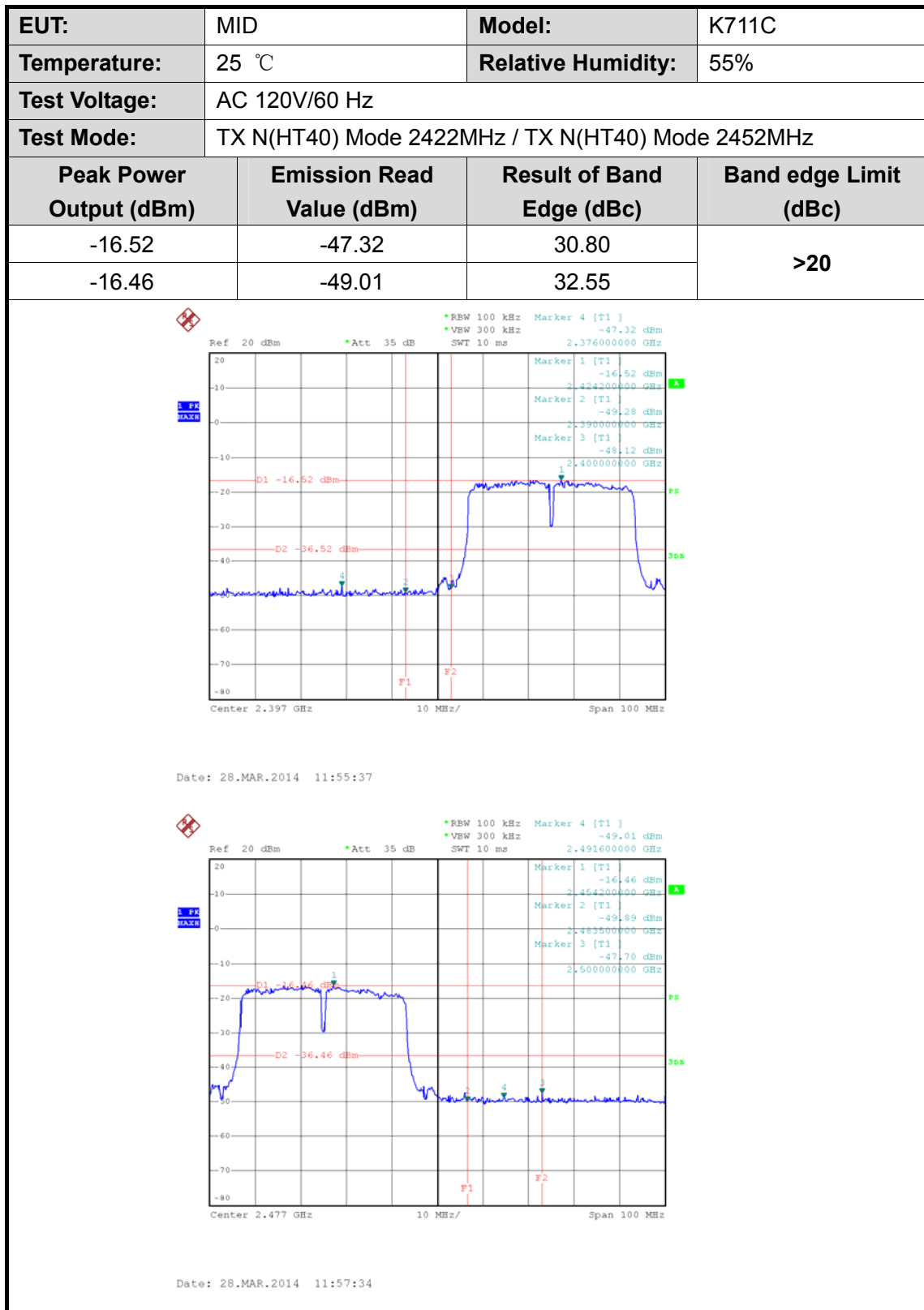
Marker 4 [T1] -48.00 dBm

Center 2.493 GHz 10 MHz/ Span 100 MHz

Date: 28.MAR.2014 12:07:14







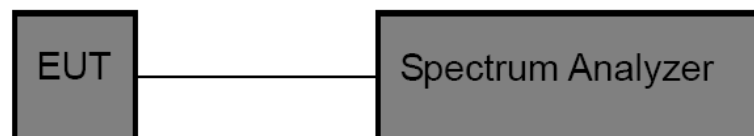
6. Bandwidth Test

6.1 Test Standard and Limit

- 8.1.1 Test Standard
FCC Part 15.247 (a)(2)
- 8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210		
Test Item	Limit	Frequency Range(MHz)
Bandwidth	≥ 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.

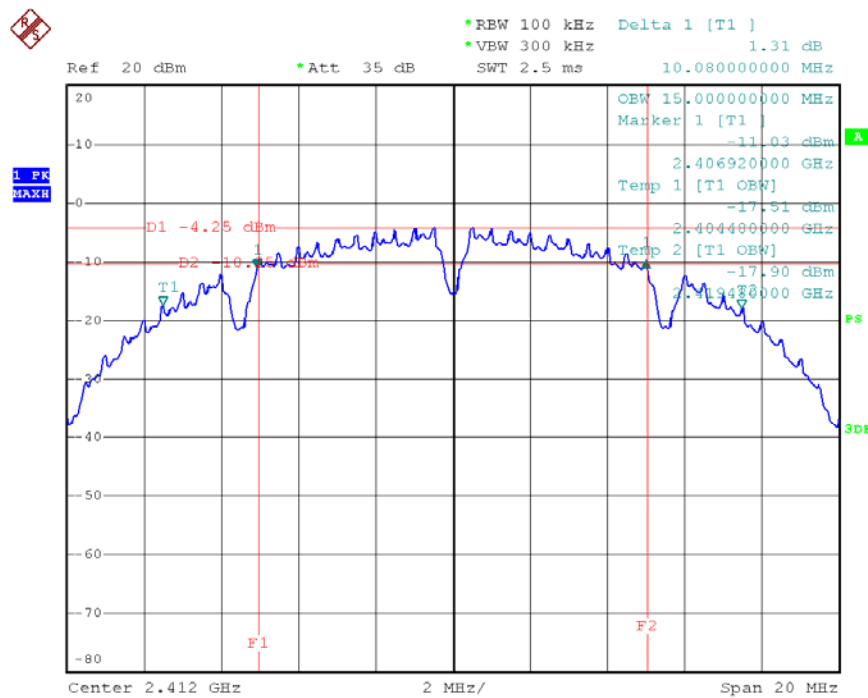
6.5 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSP30	DE25181	Aug. 10, 2013	Aug.09, 2014

6.6 Test Data

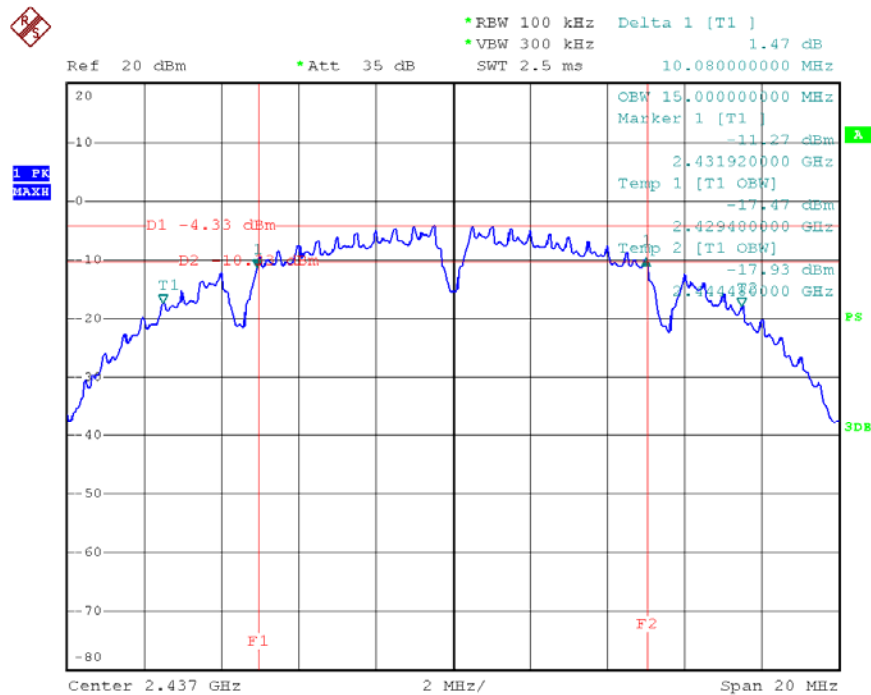
802.11b			
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit
2412	10.08	15.00	>=500 kHz
2437	10.08	15.00	>=500 kHz
2462	10.08	15.04	>=500 kHz

2412 MHz



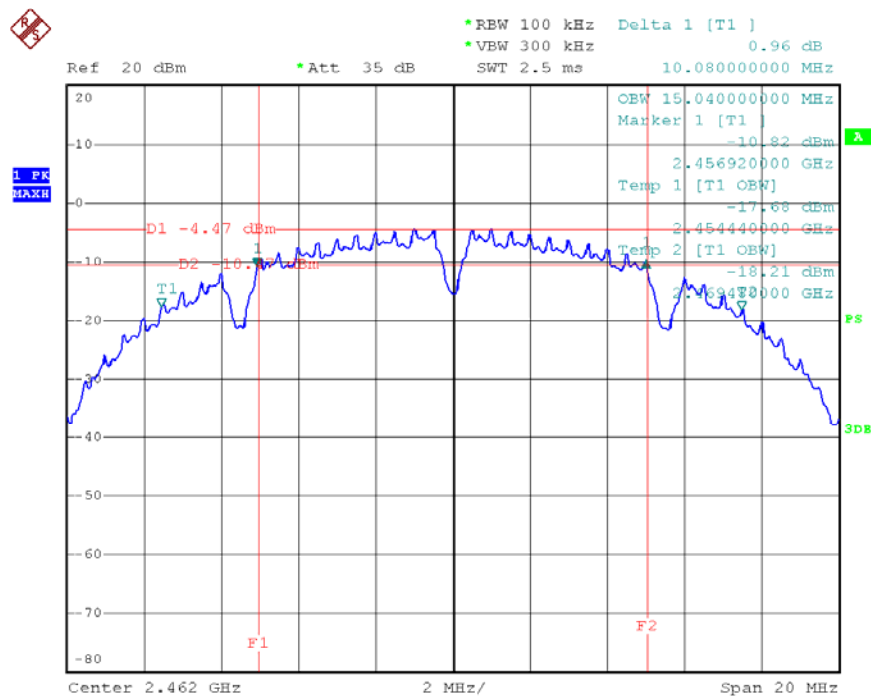
Date: 28.MAR.2014 11:32:29

2437 MHz



Date: 28.MAR.2014 11:31:07

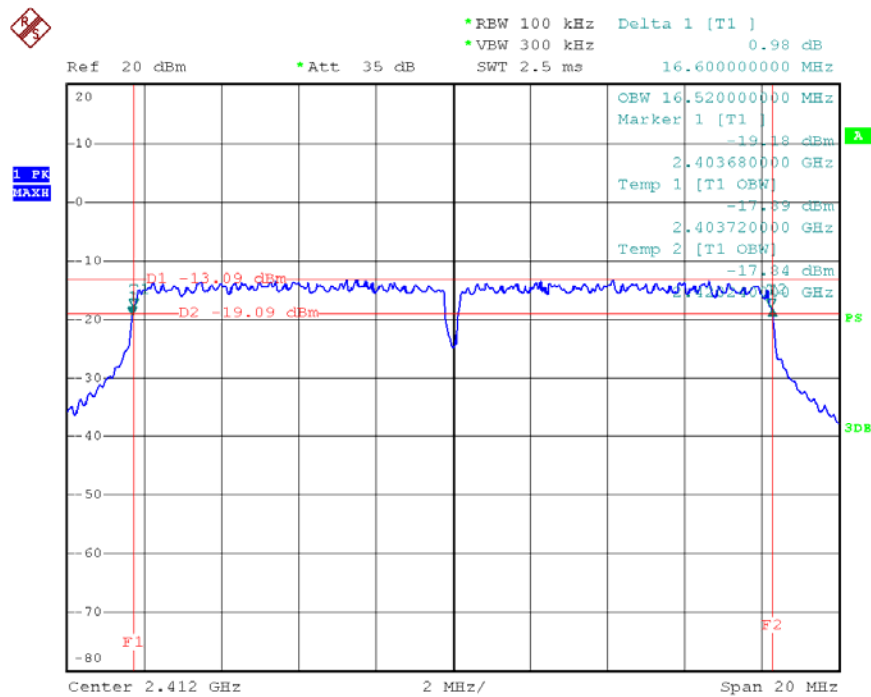
2462 MHz



Date: 28.MAR.2014 11:33:44

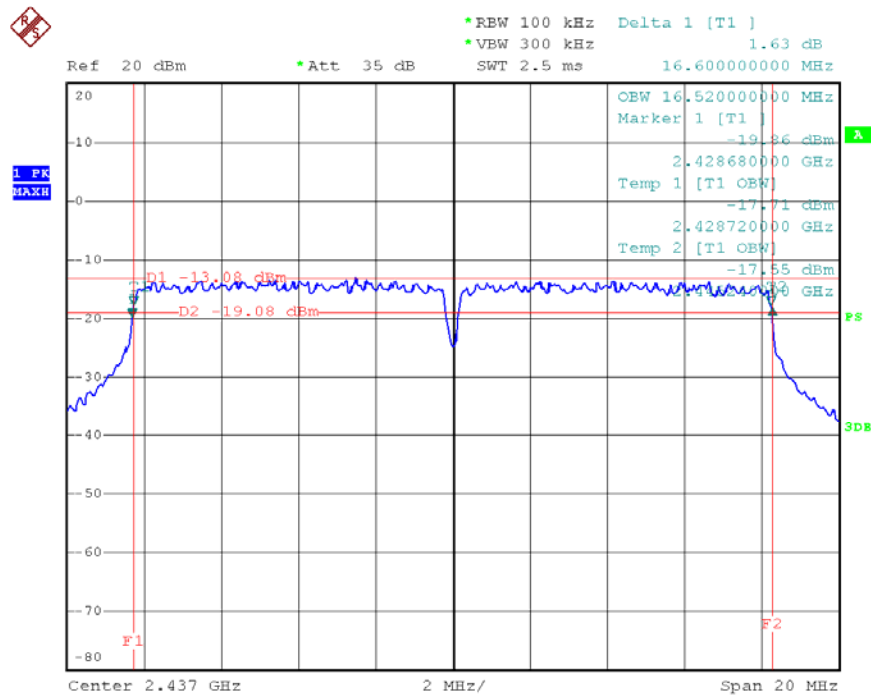
802.11g			
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit
2412	16.60	16.52	>=500 kHz
2437	16.60	16.52	>=500 kHz
2462	16.60	16.52	>=500 kHz

2412 MHz



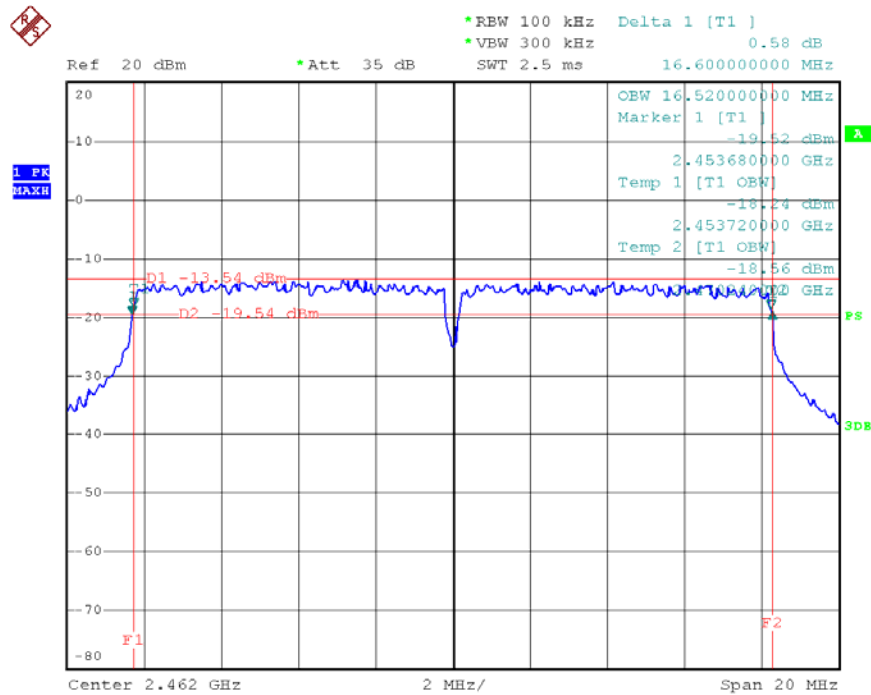
Date: 28.MAR.2014 11:38:34

2437 MHz



Date: 28.MAR.2014 11:37:16

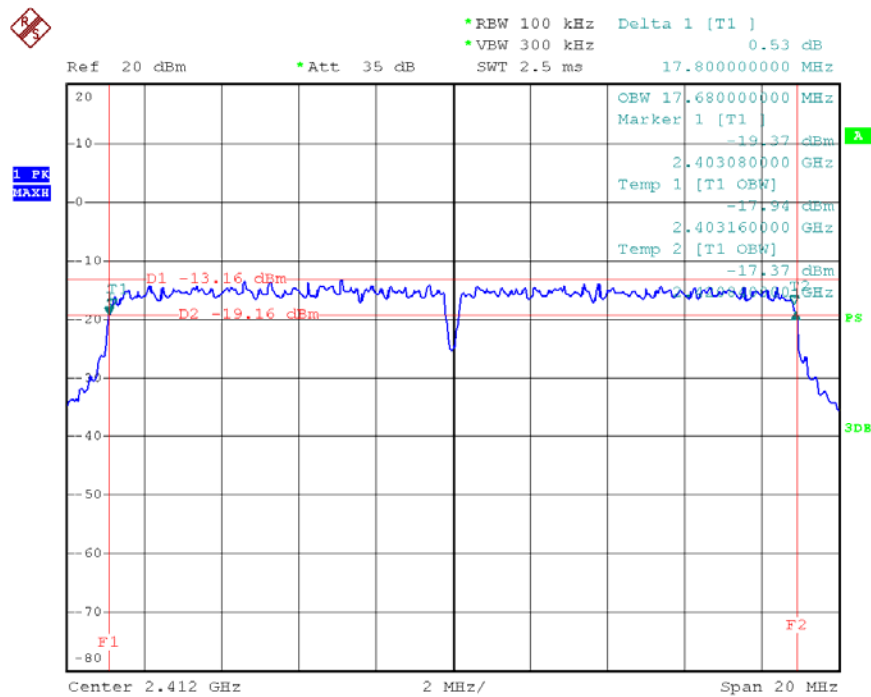
2462 MHz



Date: 28.MAR.2014 11:35:33

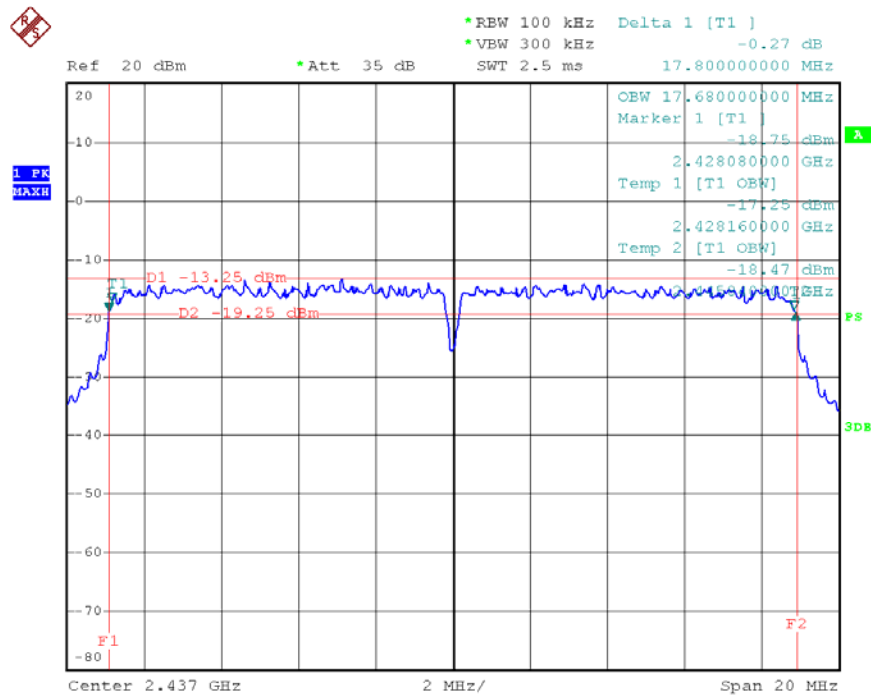
802.11n(HT20)			
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit
2412	17.80	17.68	>=500 kHz
2437	17.80	17.68	>=500 kHz
2462	17.80	17.72	>=500 kHz

2412 MHz



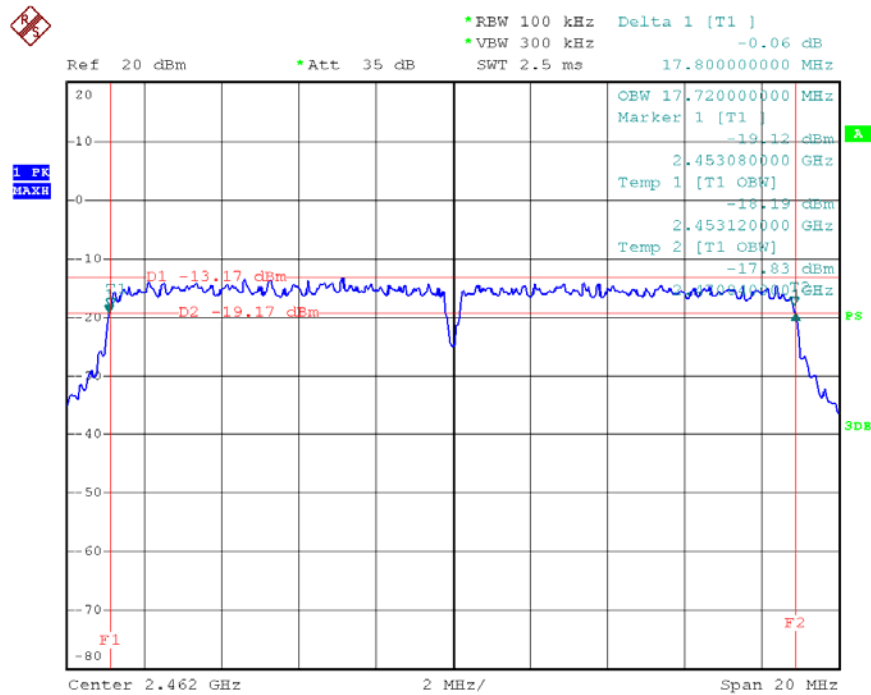
Date: 28.MAR.2014 11:40:13

2437 MHz



Date: 28.MAR.2014 11:41:40

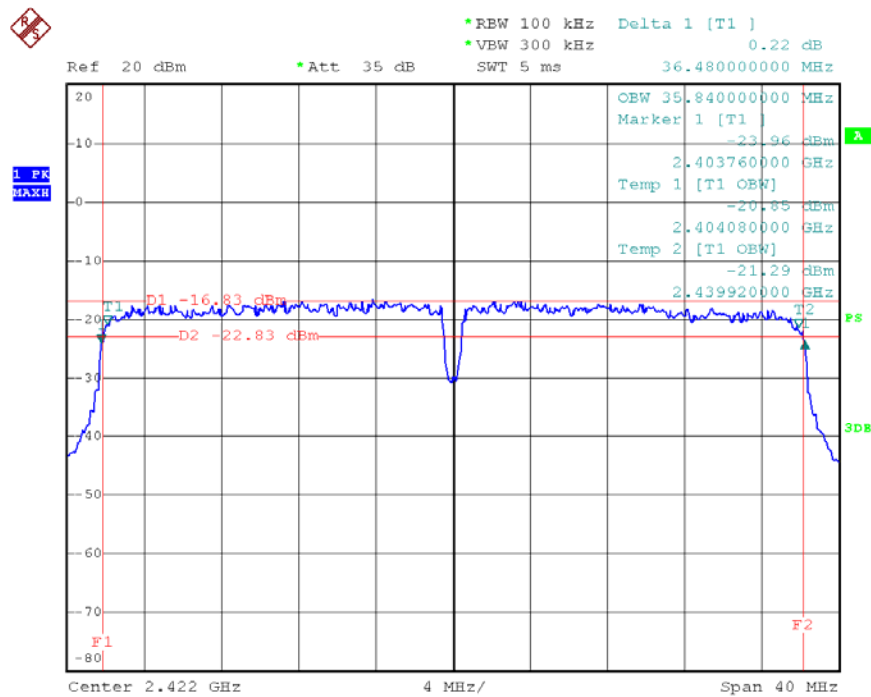
2462 MHz



Date: 28.MAR.2014 11:43:01

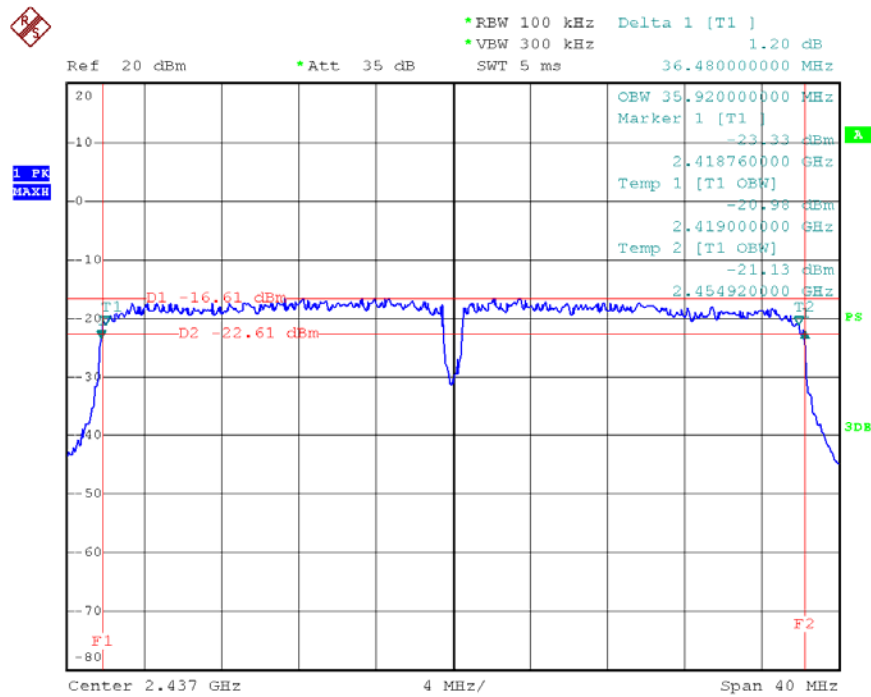
802.11n(HT40)			
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit
2422	36.48	35.84	>=500 kHz
2437	36.48	35.92	>=500 kHz
2452	36.48	35.92	>=500 kHz

2422 MHz



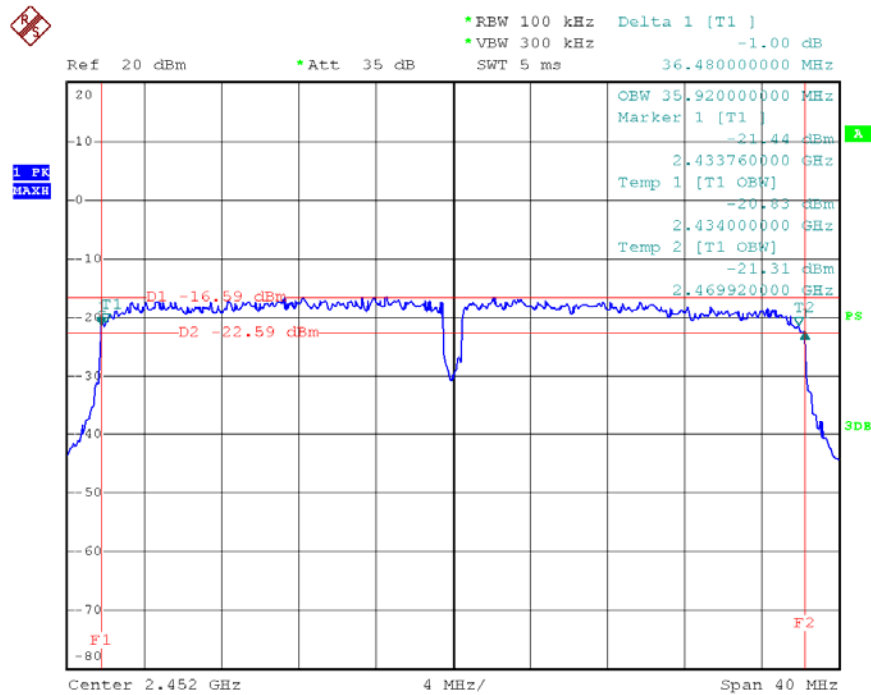
Date: 28.MAR.2014 11:50:50

2437 MHz



Date: 28.MAR.2014 11:47:46

2452 MHz



Date: 28.MAR.2014 11:46:19

7. Peak Output Power Test

7.1 Test Standard and Limit

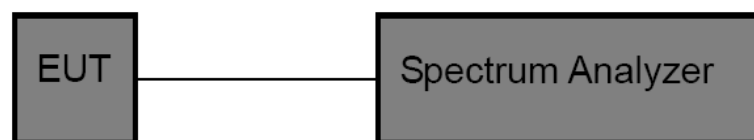
9.1.1 Test Standard

FCC Part 15.247 (b)

9.1.2 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 EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above.

7.4 EUT Operating Condition

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

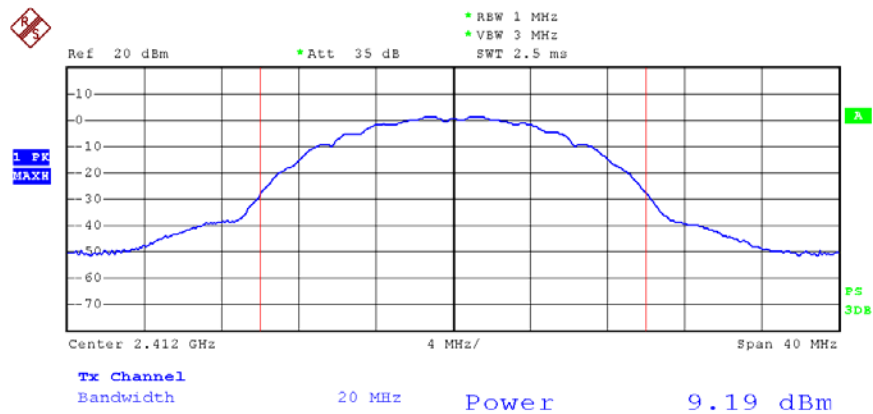
7.5 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSP30	DE25181	Aug. 10, 2013	Aug.09, 2014

7.6 Test Data

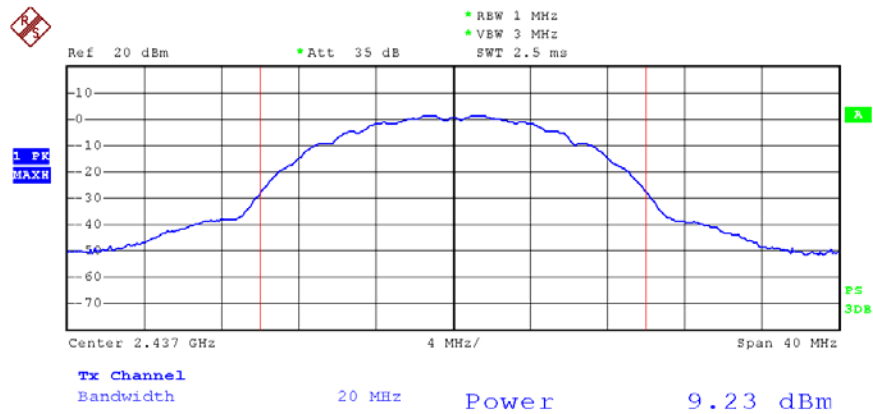
801.11b Mode			
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
CH01	2412	9.19	30
CH 06	2437	9.23	30
CH11	2462	9.29	30

2412 MHz



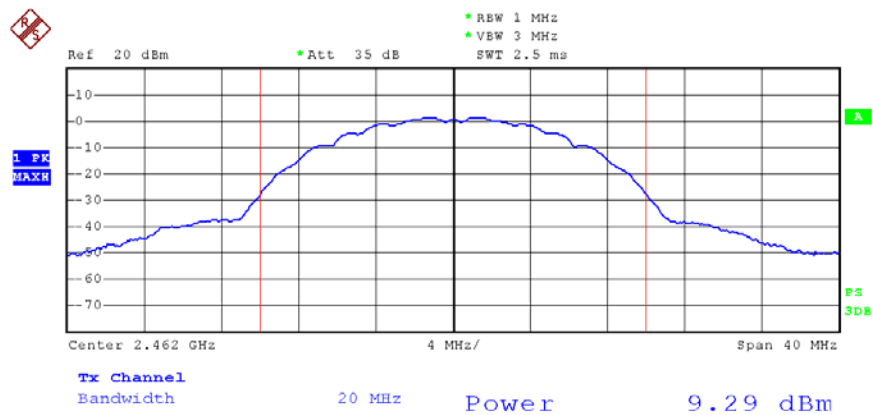
Date: 28.MAR.2014 11:07:51

2437 MHz



Date: 28.MAR.2014 11:09:31

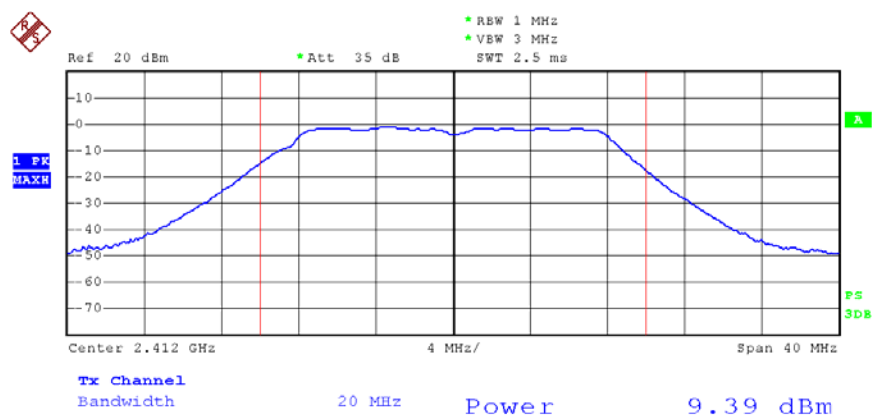
2462 MHz



Date: 28.MAR.2014 11:10:58

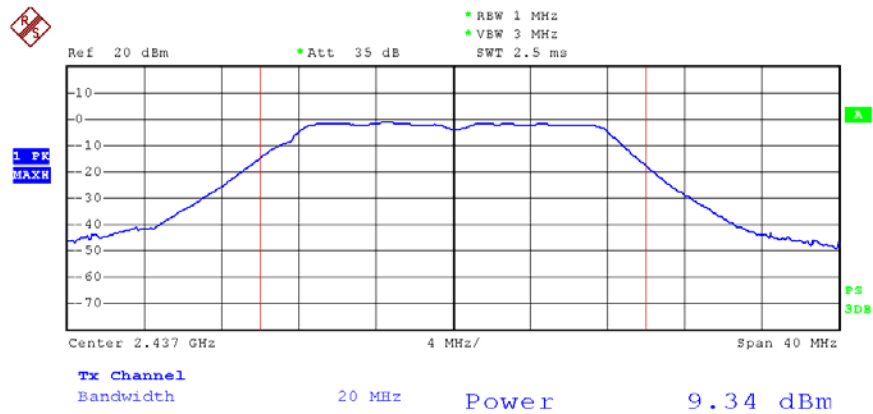
801.11g Mode			
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
CH01	2412	9.39	30
CH 06	2437	9.34	30
CH11	2462	8.98	30

2412 MHz



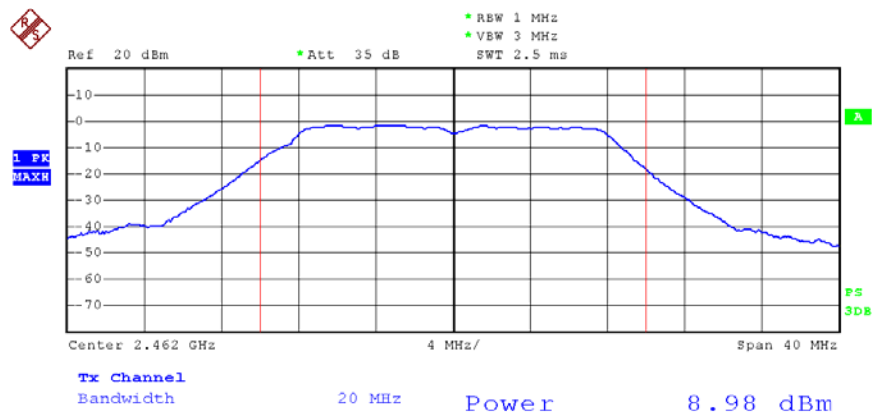
Date: 28.MAR.2014 11:13:28

2437 MHz



Date: 28.MAR.2014 11:14:41

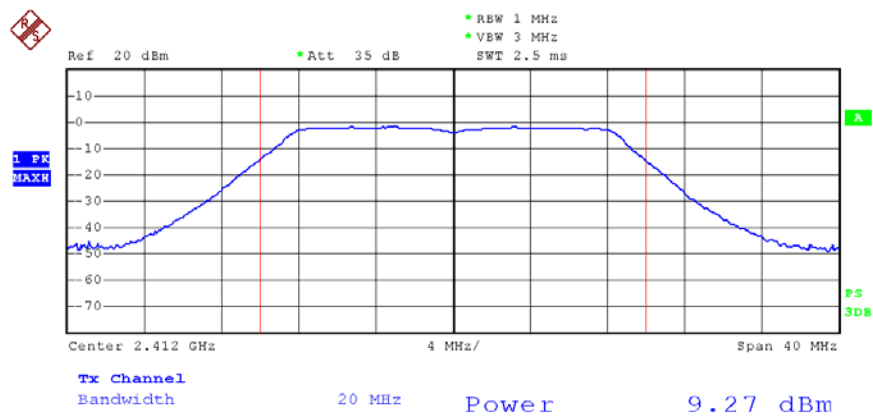
2462 MHz



Date: 28.MAR.2014 11:16:31

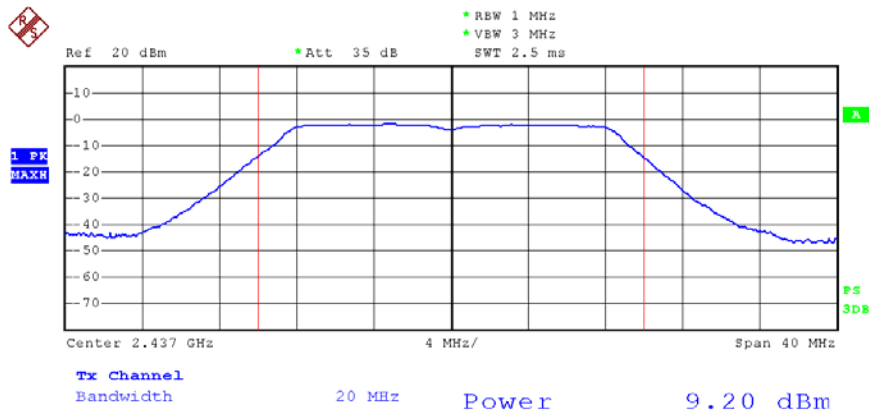
801.11n(HT20) Mode			
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
CH01	2412	9.27	30
CH 06	2437	9.20	30
CH11	2462	9.23	30

2412 MHz



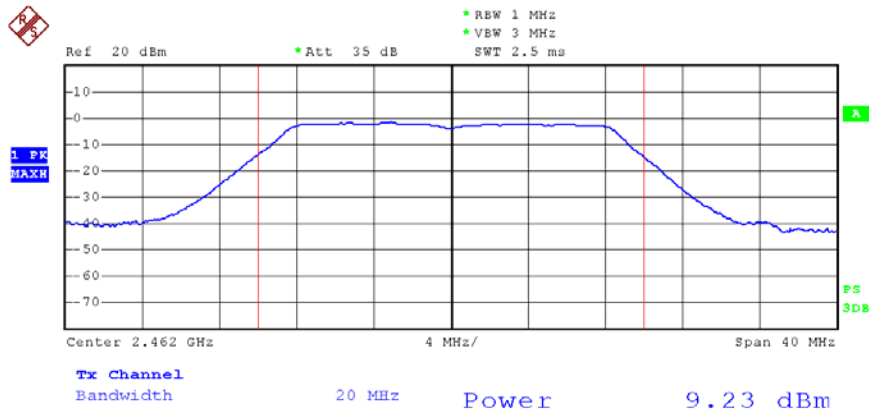
Date: 28.MAR.2014 11:19:16

2437 MHz



Date: 28.MAR.2014 11:18:32

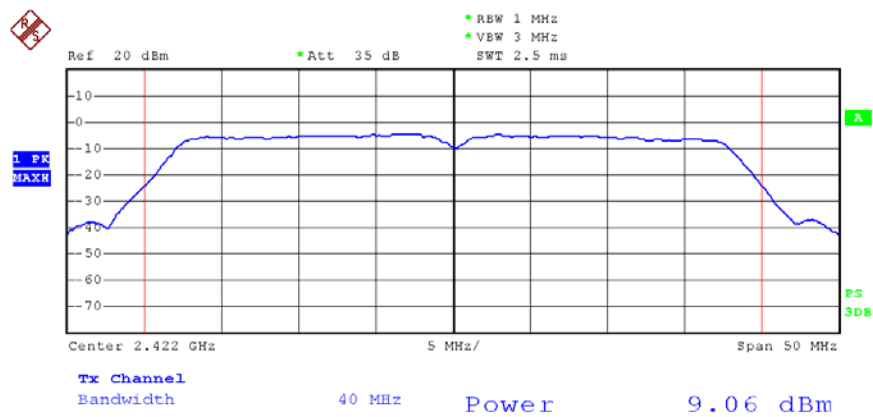
2462 MHz



Date: 28.MAR.2014 11:17:21

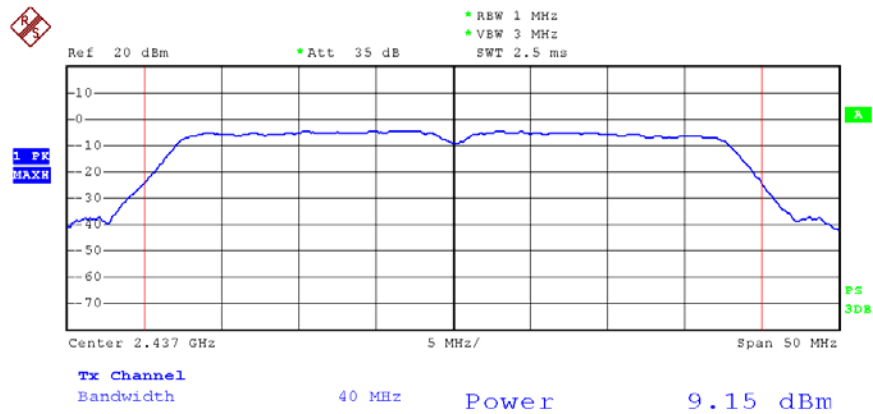
801.11n(HT40) Mode			
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)
CH 03	2422	9.06	30
CH 06	2437	9.15	30
CH 09	2452	9.14	30

2422 MHz



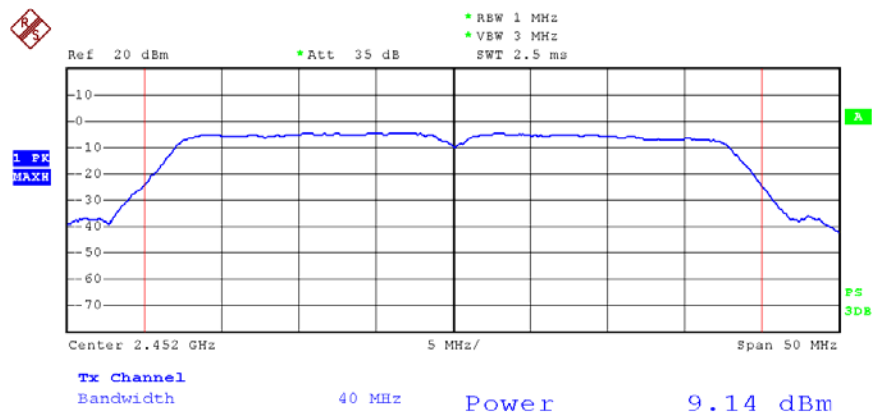
Date: 28.MAR.2014 11:21:21

2437 MHz



Date: 28.MAR.2014 11:22:00

2452 MHz



Date: 28.MAR.2014 11:23:14

8. Power Spectral Density Test

8.1 Test Standard and Limit

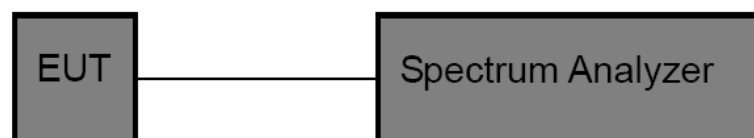
8.1.1 Test Standard

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

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Measure the spectral power density the spectrum analyzer was set to Resolution Bandwidth=100 kHz, and Video Bandwidth ≥ 300 kHz, Detector: Peak, Span to 5%~30% greater than EBW, Sweep time auto.
- (3) Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a BWCF=-15.2 dB.

8.4 EUT Operating Condition

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

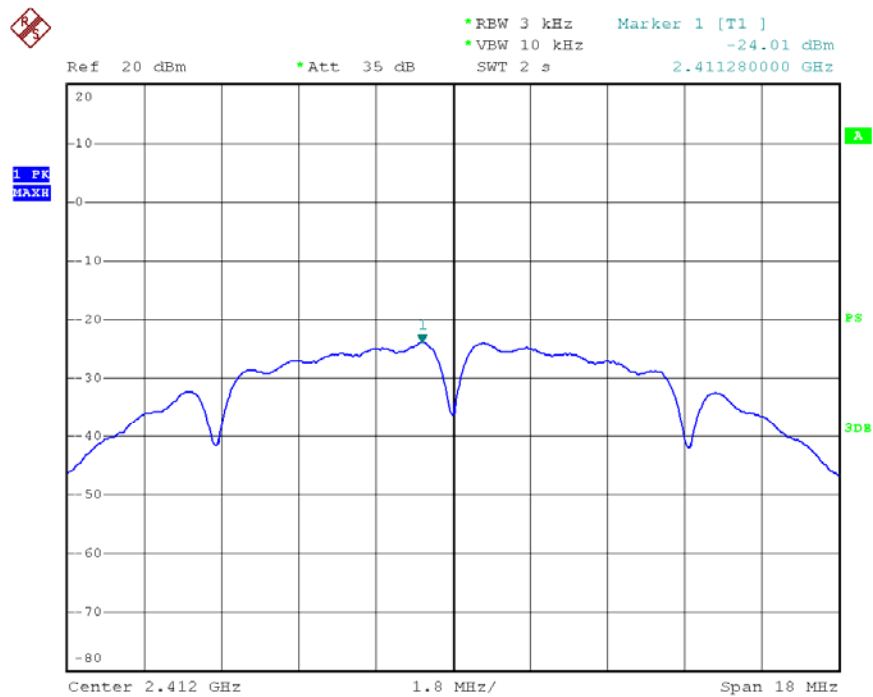
8.5 Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSP30	DE25181	Aug. 10, 2013	Aug.09, 2014

8.6 Test Data

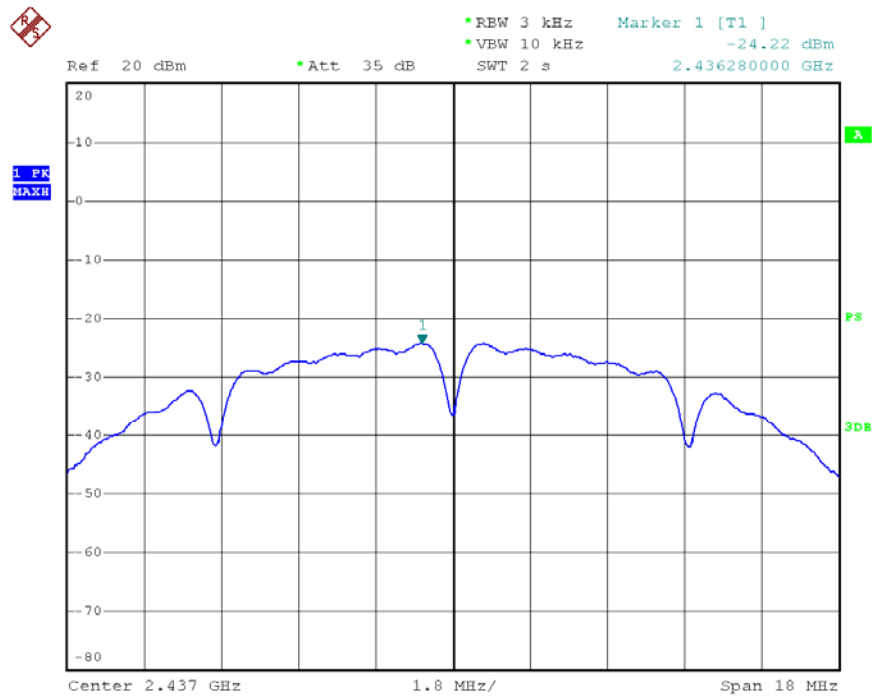
802.11b Mode			
Test Channel	Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)
CH 01	2412	-24.01	8
CH 06	2437	-24.22	8
CH 11	2462	-24.33	8

2412 MHz



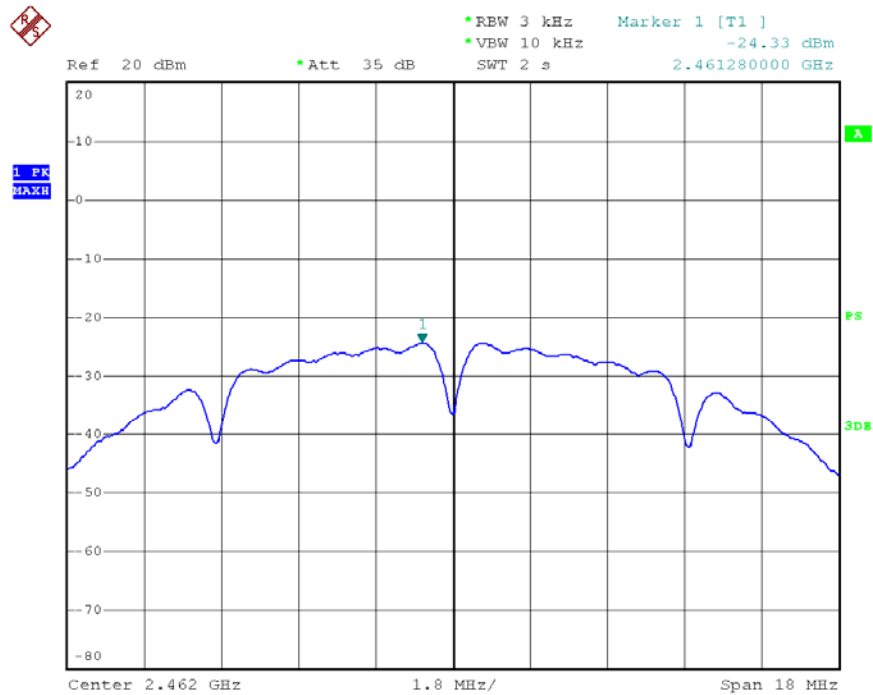
Date: 28.MAR.2014 14:20:41

2437 MHz



Date: 28.MAR.2014 14:21:14

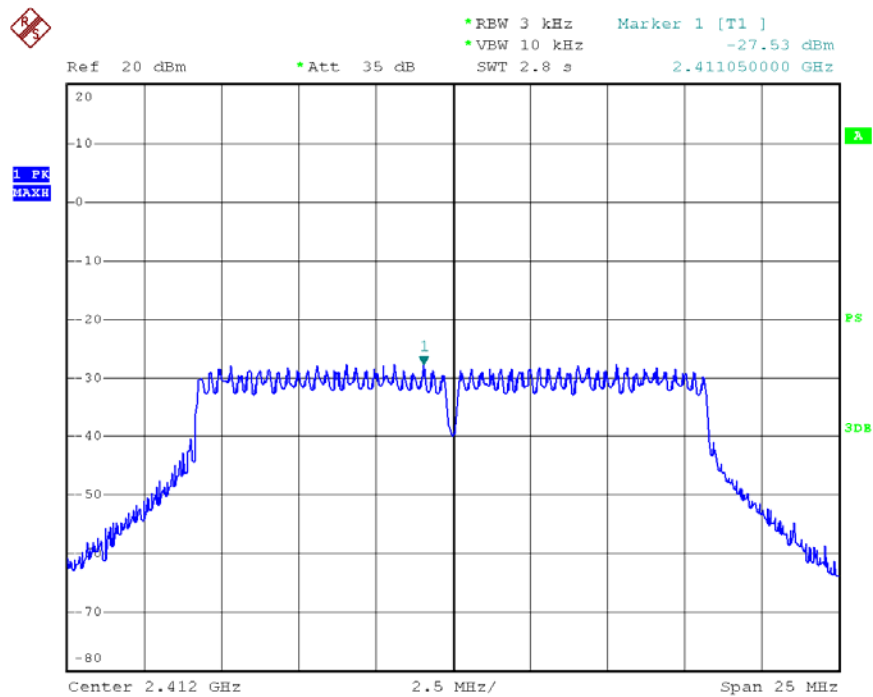
2462 MHz



Date: 28.MAR.2014 14:21:43

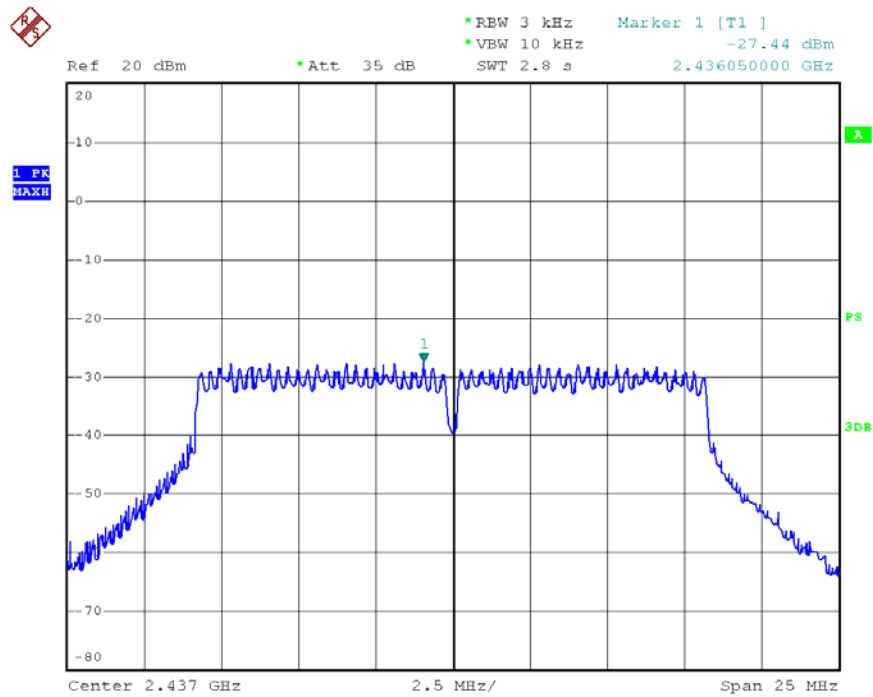
802.11g Mode			
Test Channel	Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)
CH 01	2412	-27.53	8
CH 06	2437	-27.44	8
CH 11	2462	-28.03	8

2412 MHz



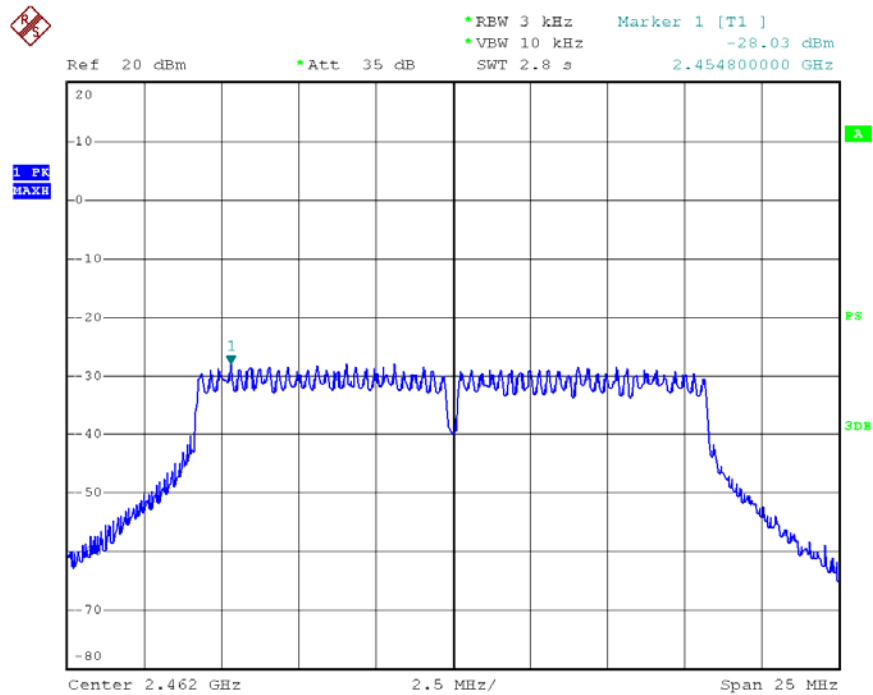
Date: 28.MAR.2014 14:23:55

2437 MHz



Date: 28.MAR.2014 14:23:21

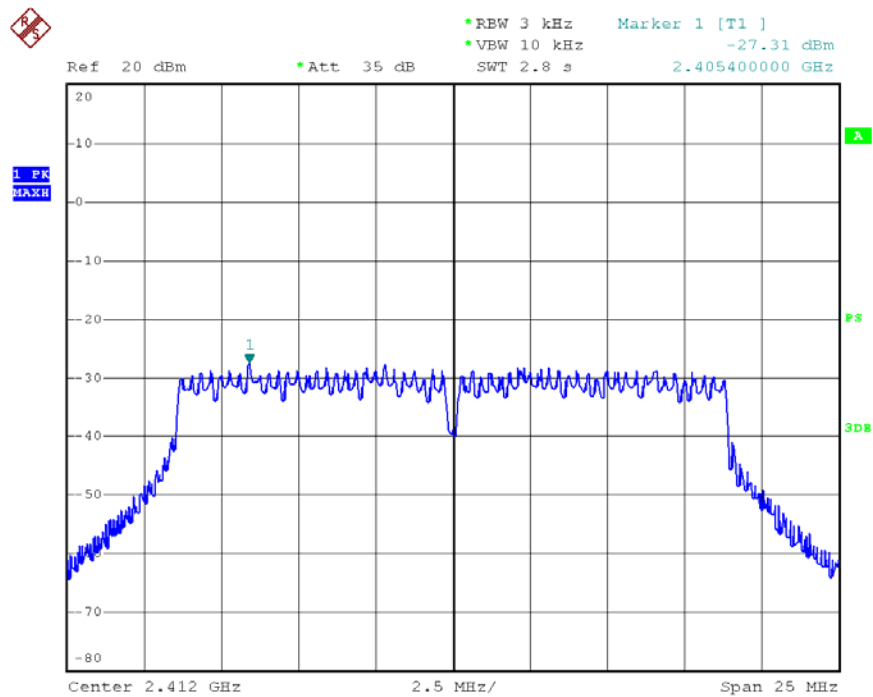
2462 MHz



Date: 28.MAR.2014 14:22:33

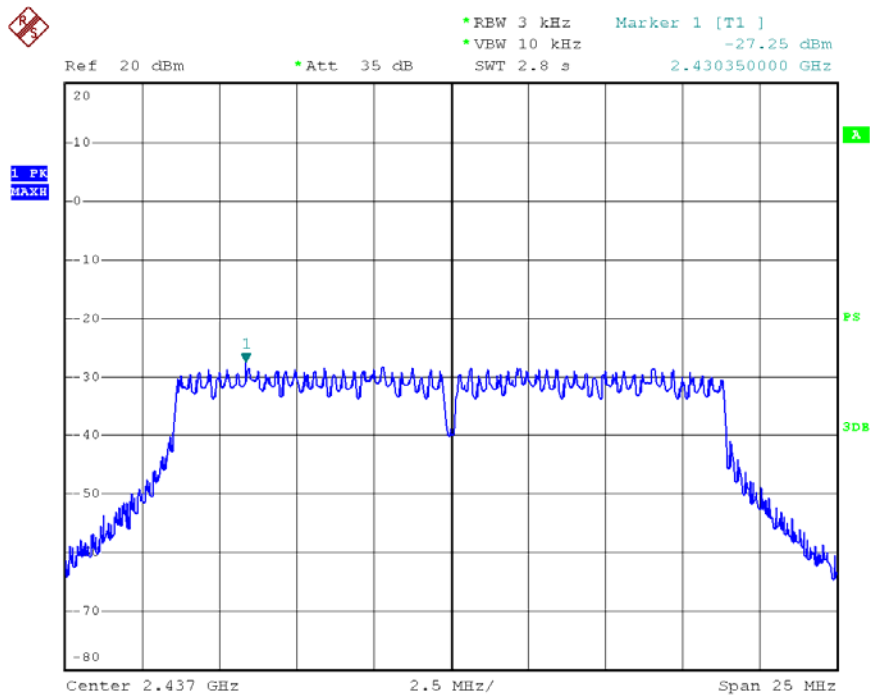
802.11n(HT20) Mode			
Test Channel	Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)
CH 01	2412	-27.31	8
CH 06	2437	-27.25	8
CH 11	2462	-27.02	8

2412 MHz



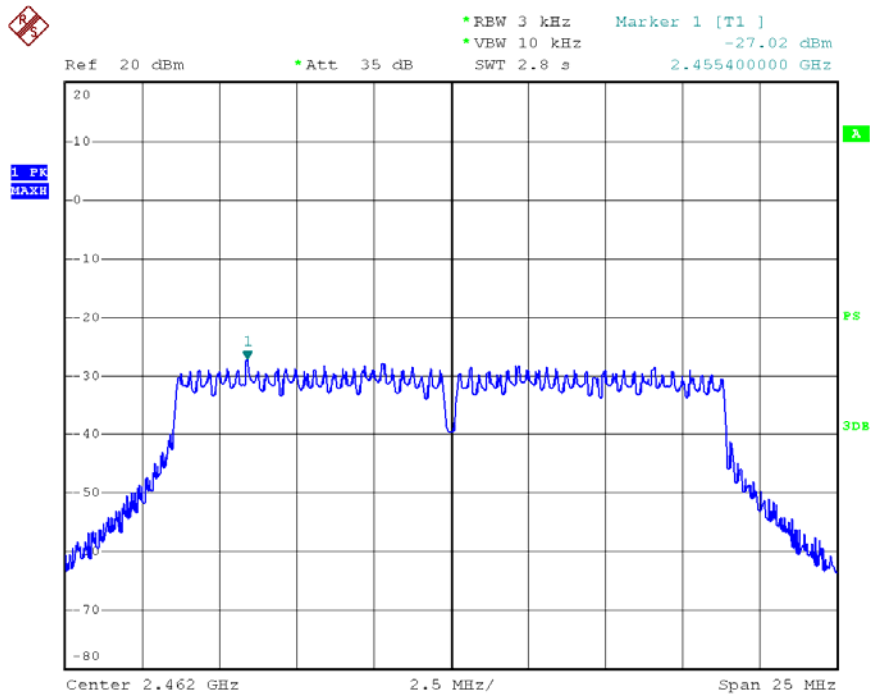
Date: 28.MAR.2014 14:24:32

2437 MHz



Date: 28.MAR.2014 14:25:16

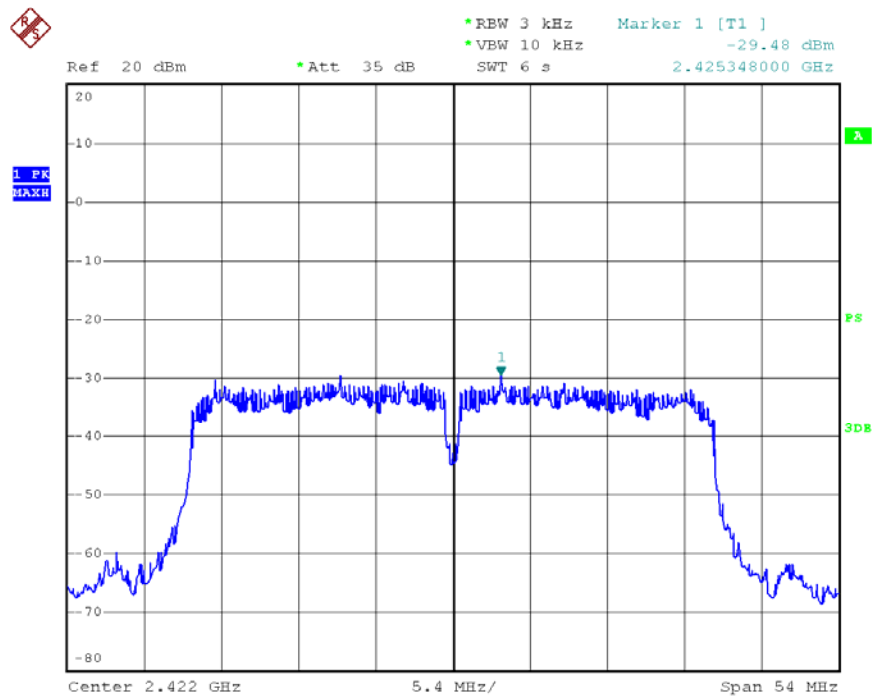
2462 MHz



Date: 28.MAR.2014 14:26:10

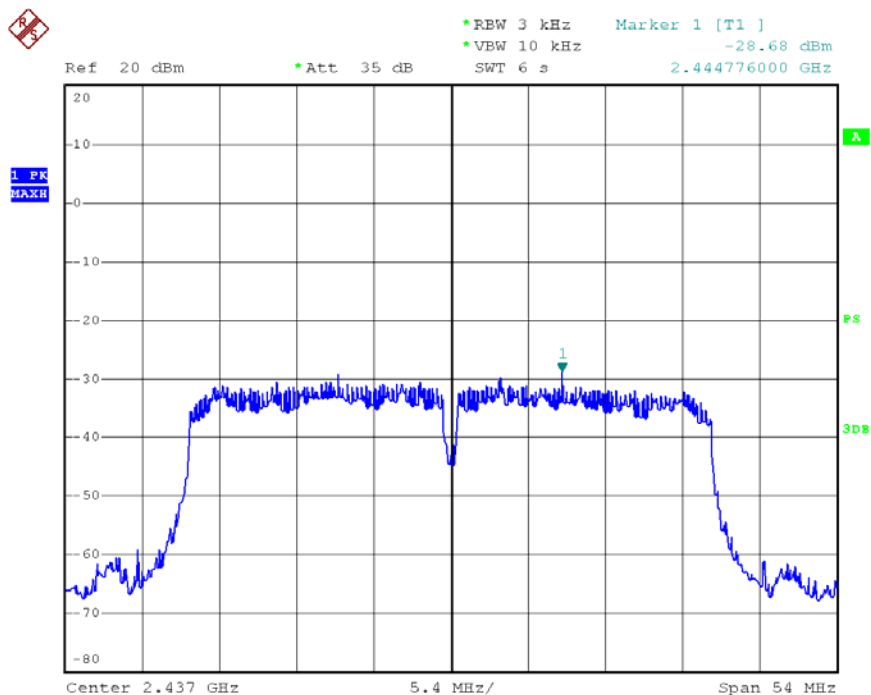
802.11n(HT40) Mode			
Test Channel	Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)
CH 03	2422	-29.48	8
CH 06	2437	-28.68	8
CH 09	2452	-30.29	8

2422 MHz



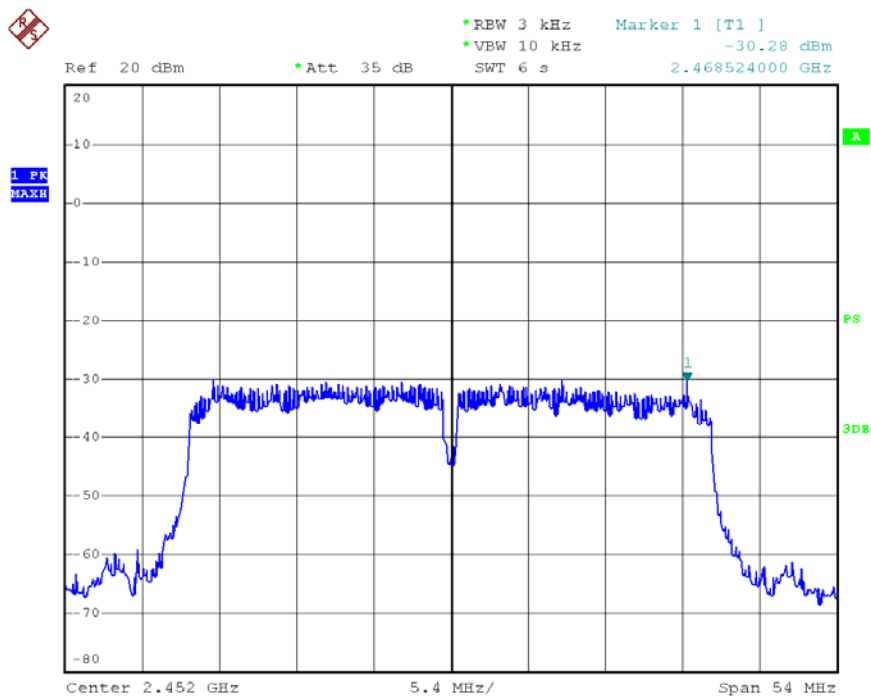
Date: 28.MAR.2014 14:28:44

2437 MHz



Date: 28.MAR.2014 14:28:03

2452 MHz



Date: 28.MAR.2014 14:27:13

9. Antenna Conducted Spurious Emission

9.1 Test Standard and Limit

10.1.1 Test Standard

FCC Part 15.247 (d)

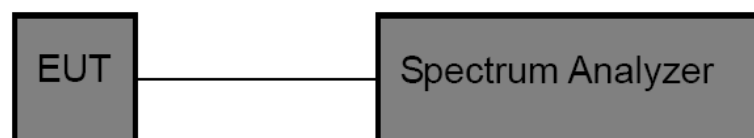
10.1.2 Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. 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 (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

(2)If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to 15.247(b)(3) requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

9.2 Test Setup



9.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.

- (2) Spectrum Setting:
 RBW=100 KHz, VBW=300 KHz.
 Frequency range: from 30MHz to 26.5 GHz.

9.4 EUT Operating Condition

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

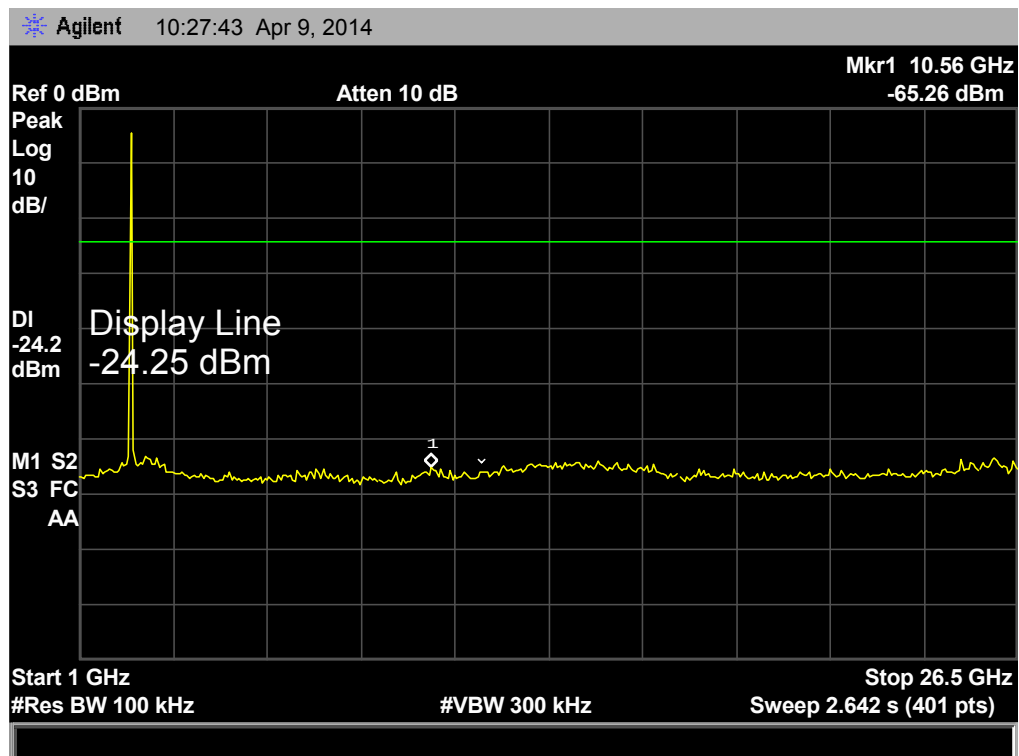
9.5 Test Equipment

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

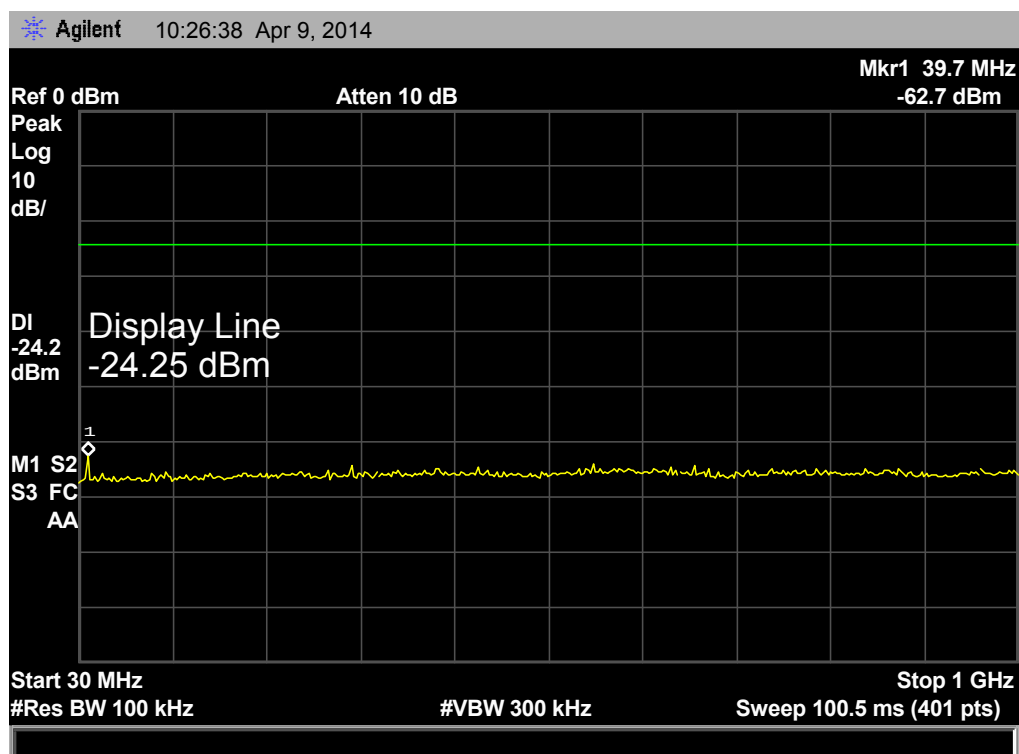
9.6 Test Data

802.11b Mode TX CH 01 2412MHz

Above 1 GHz

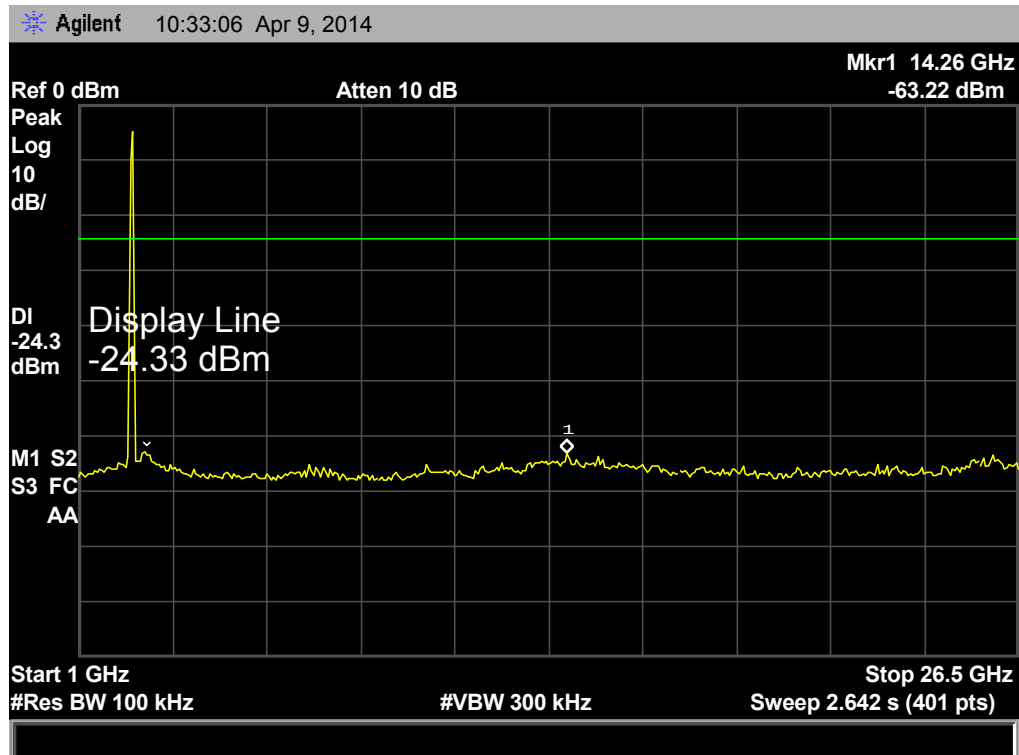


Below 1 GHz

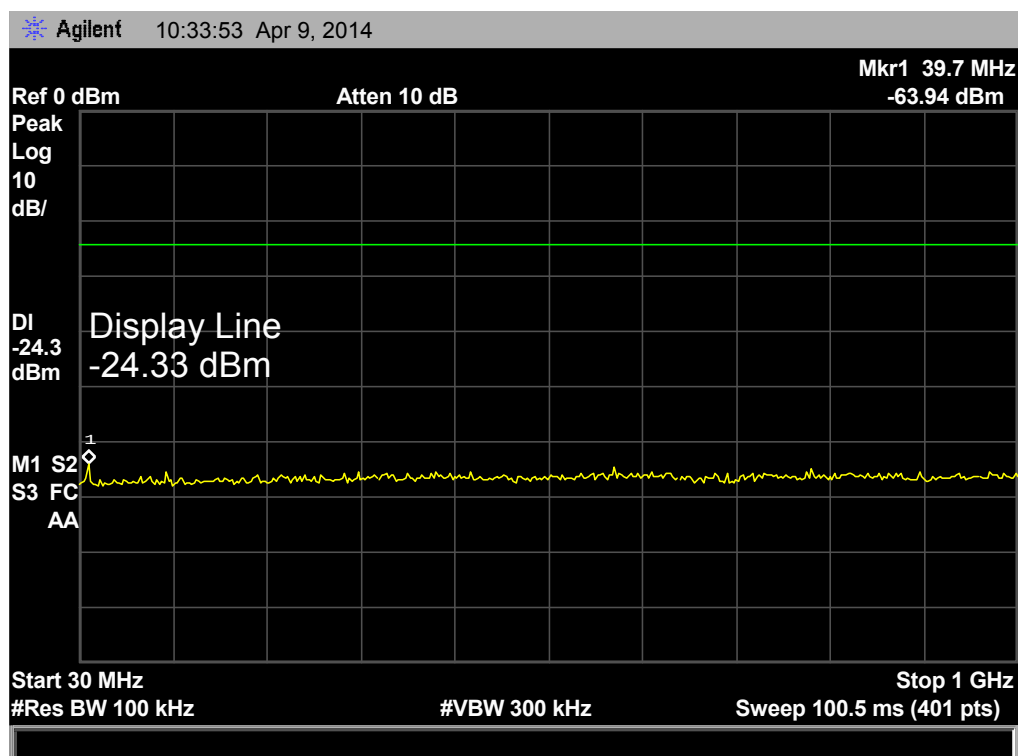


802.11b Mode TX CH 06 2437MHz

Above 1 GHz



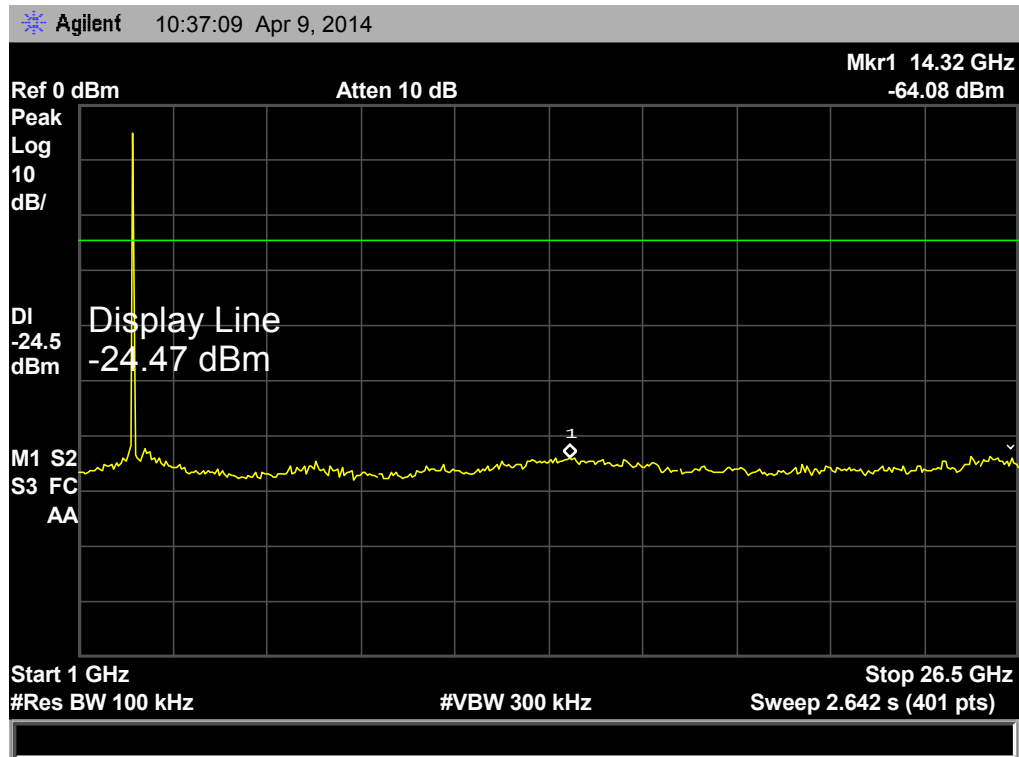
Below 1 GHz



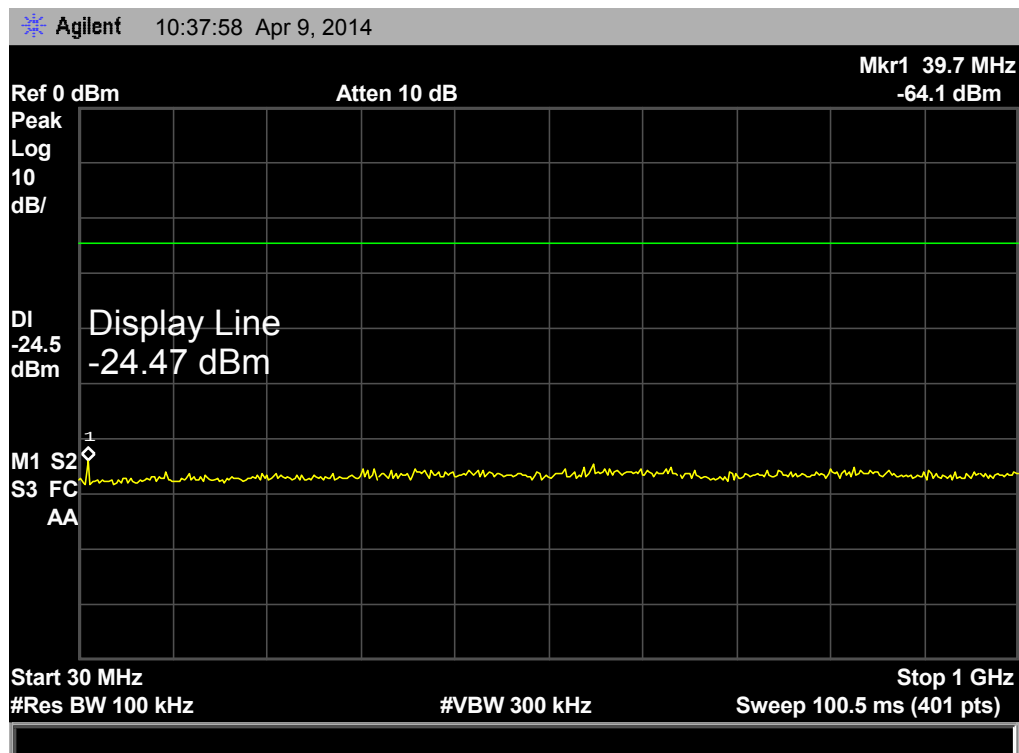
802.11b Mode

TX CH 11 2462MHz

Above 1 GHz

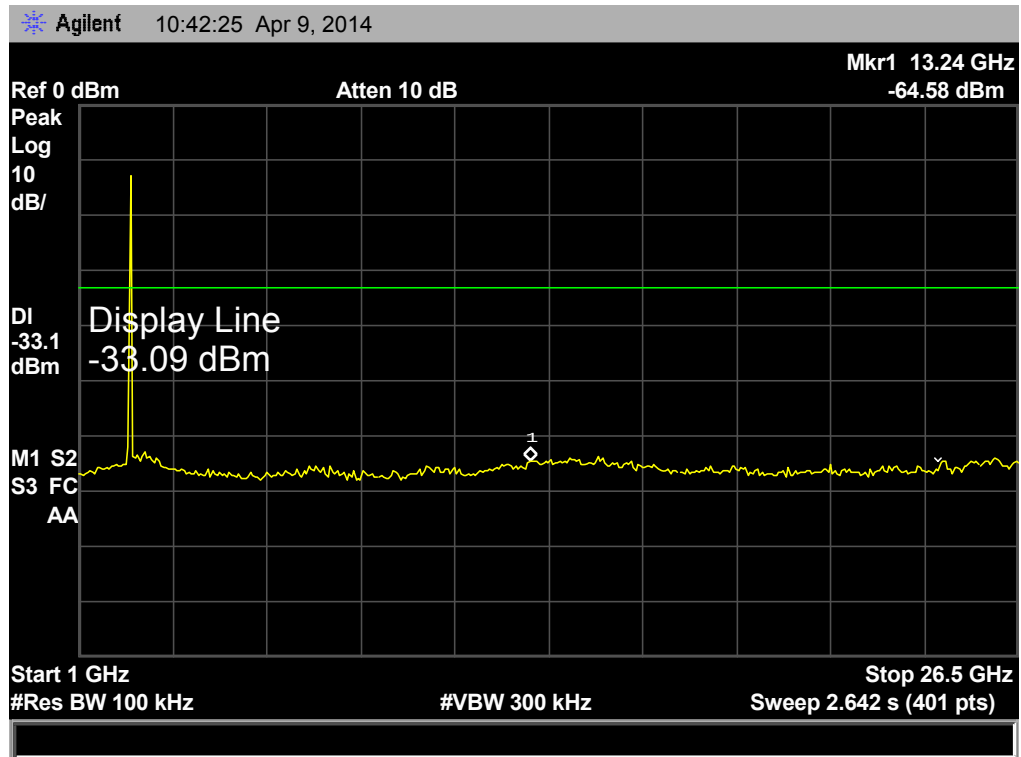


Below 1 GHz

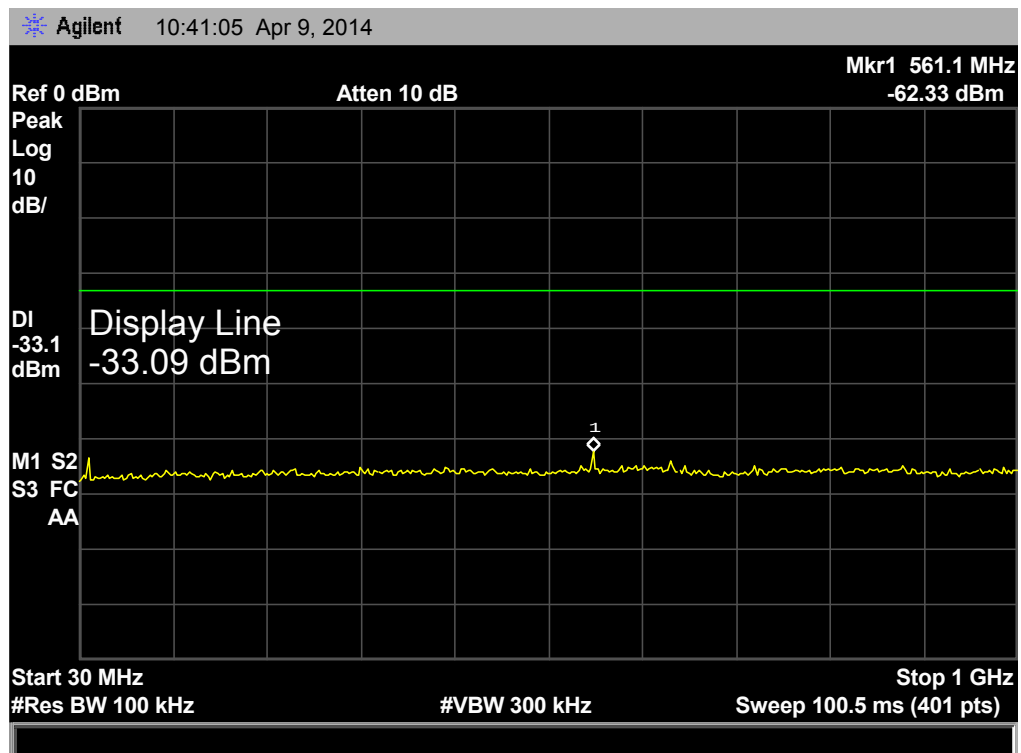


802.11g Mode TX CH 01 2412MHz

Above 1 GHz

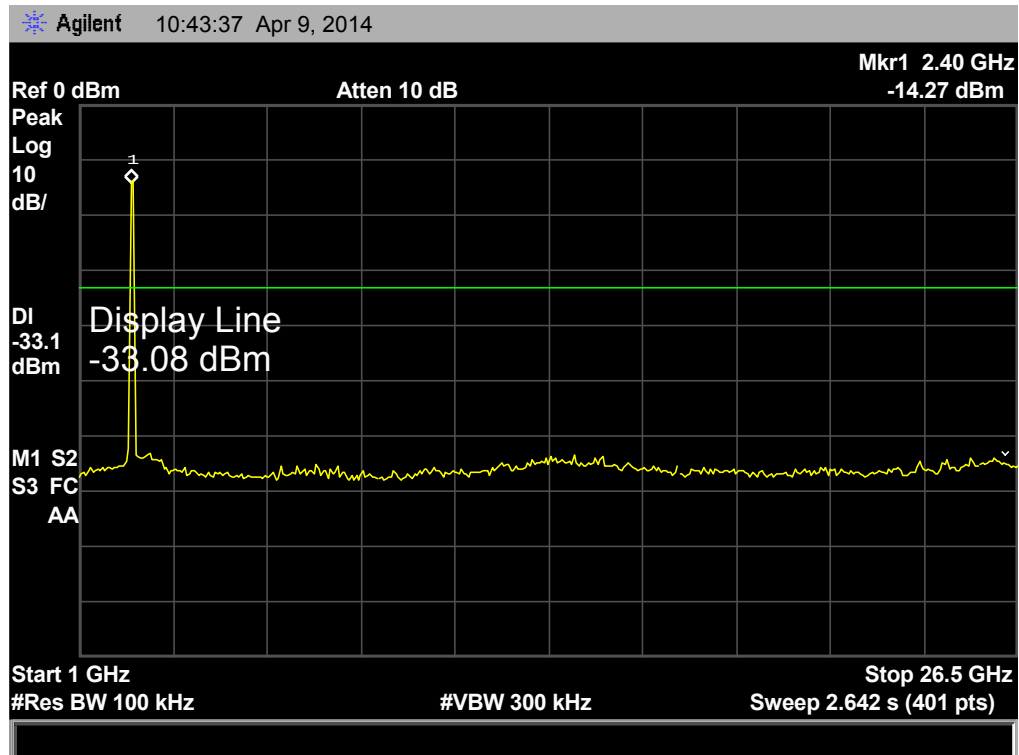


Below 1 GHz

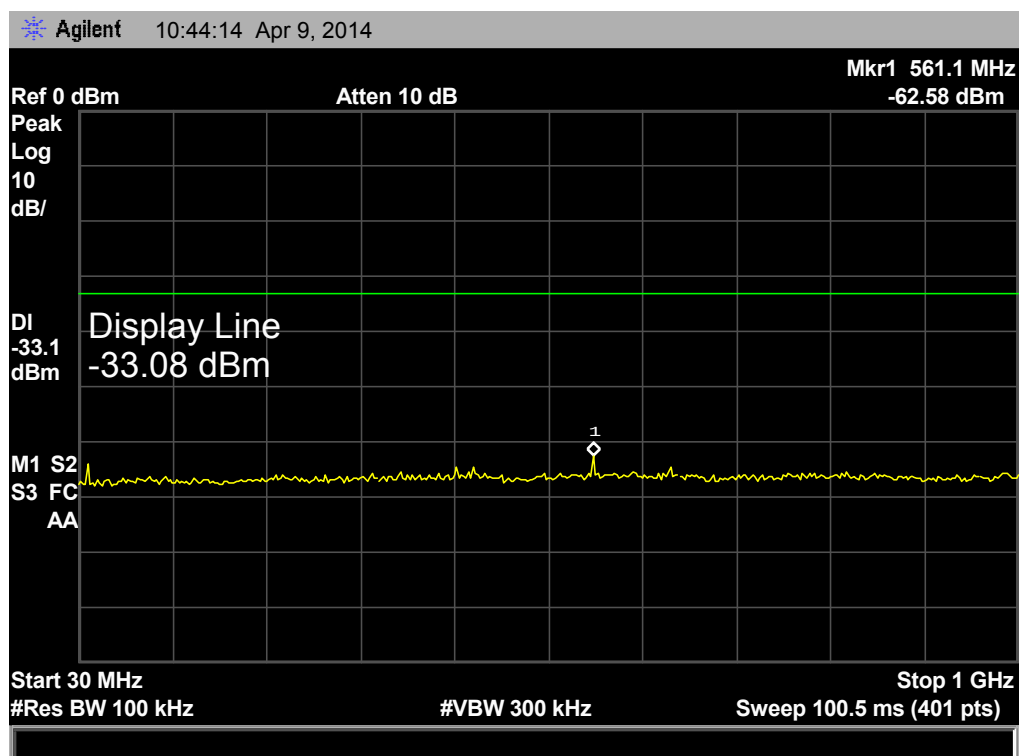


802.11g Mode TX CH 06 2437MHz

Above 1 GHz



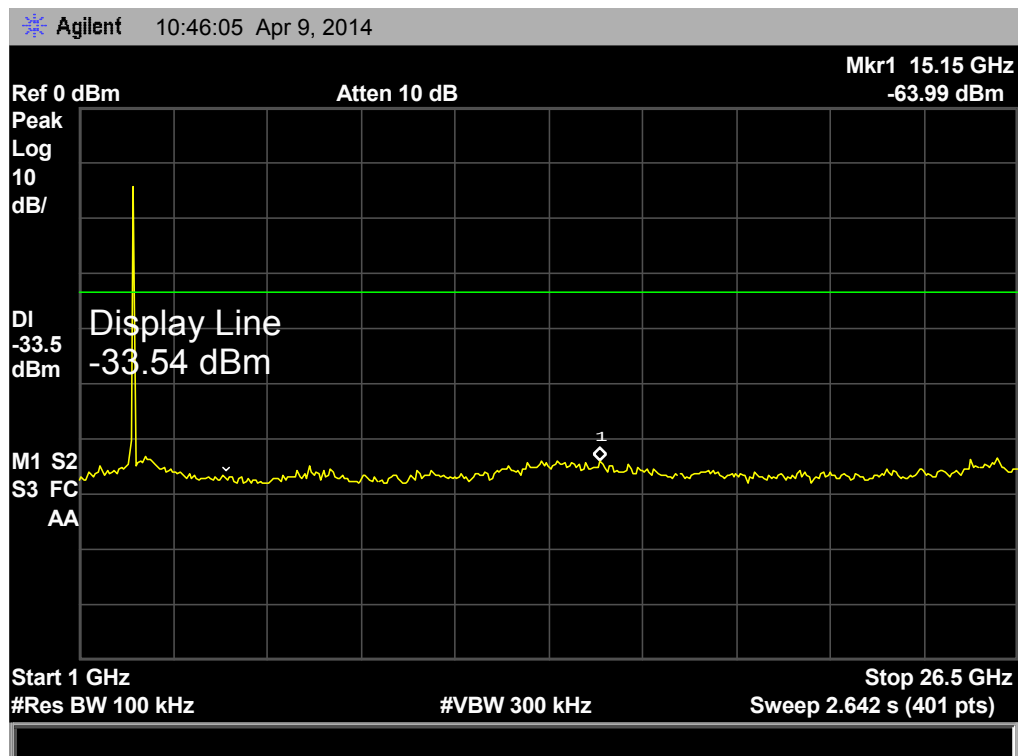
Below 1 GHz



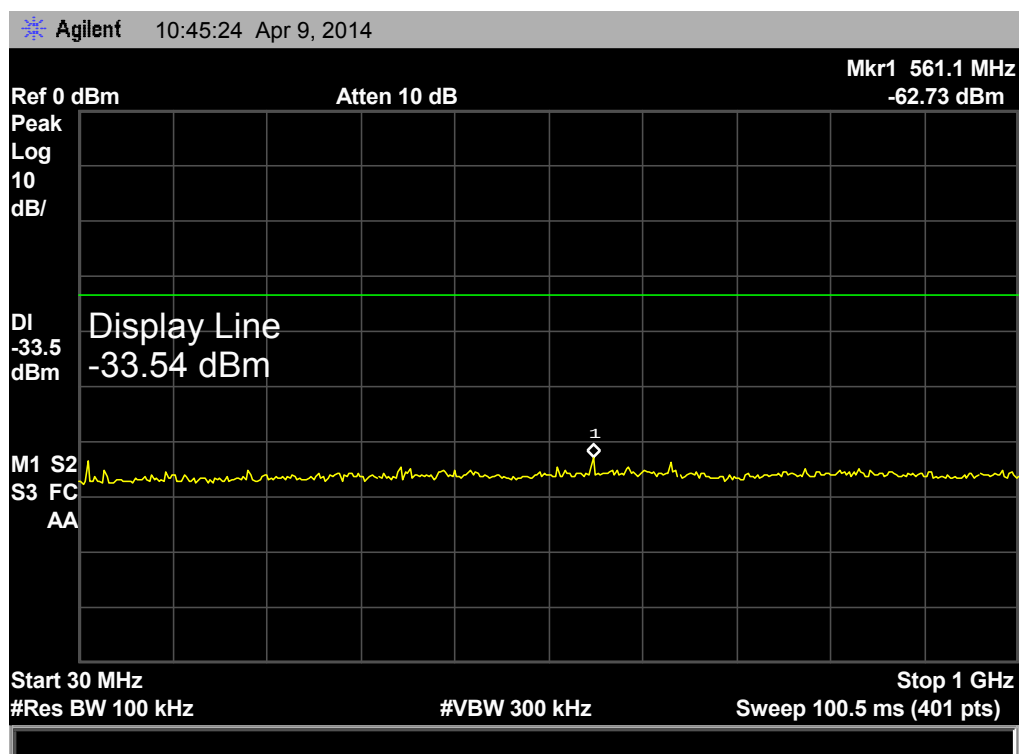
802.11g Mode

TX CH 11 2462MHz

Above 1 GHz

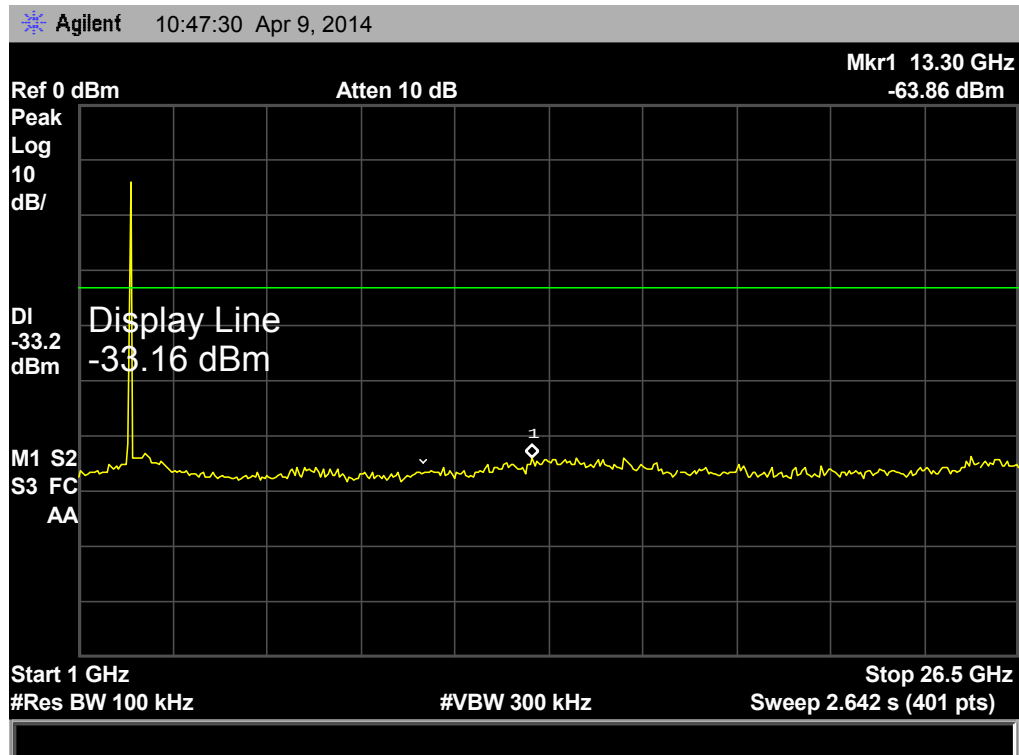


Below 1 GHz

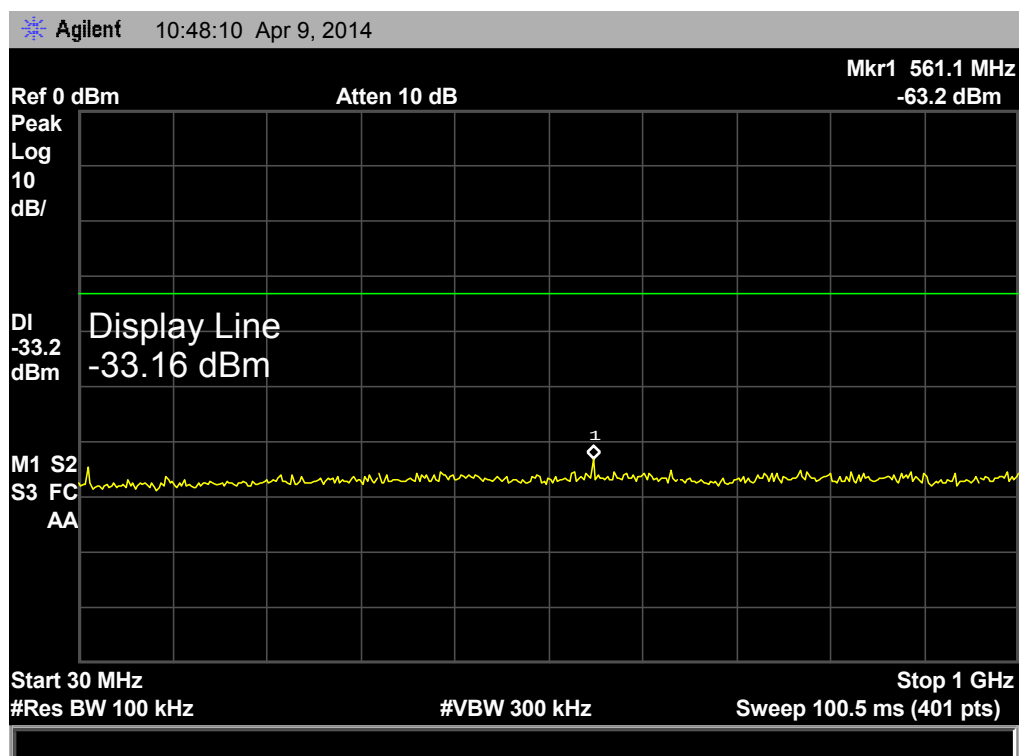


802.11n (HT20) Mode TX CH 01 2412MHz

Above 1 GHz

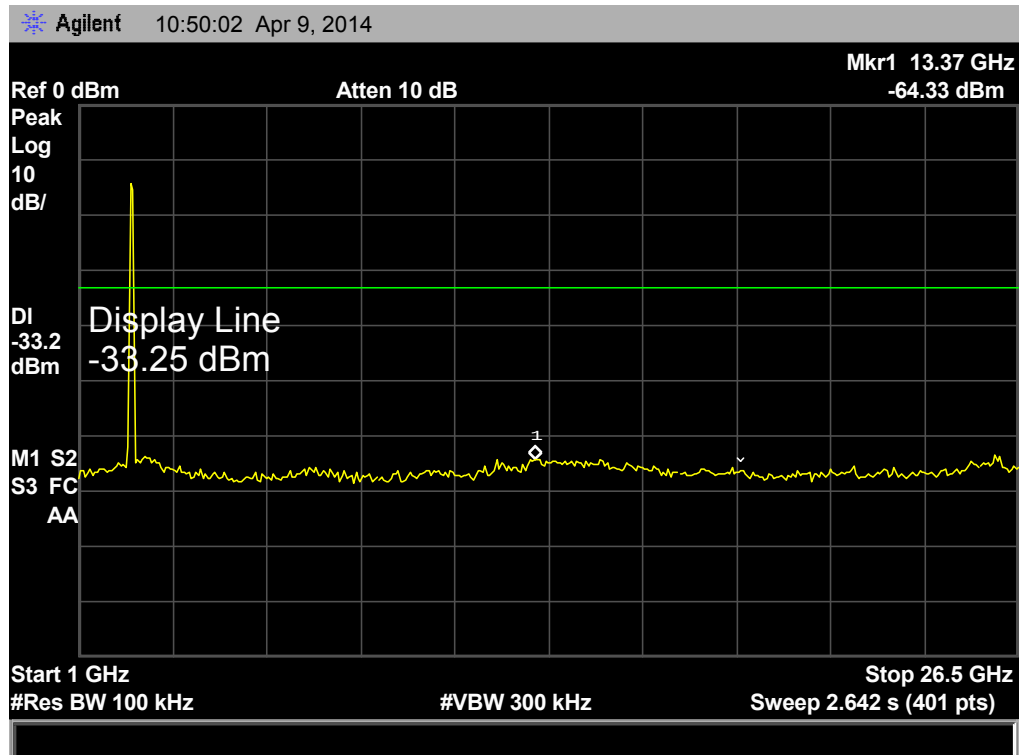


Below 1 GHz

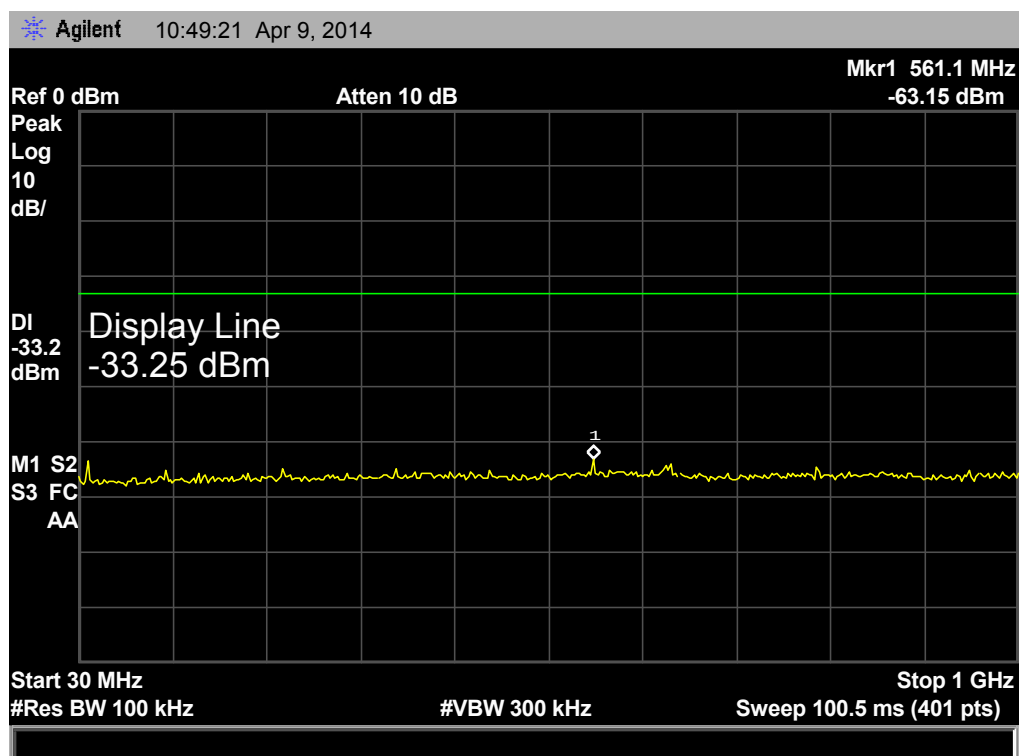


802.11n (HT20) Mode TX CH 06 2437MHz

Above 1 GHz



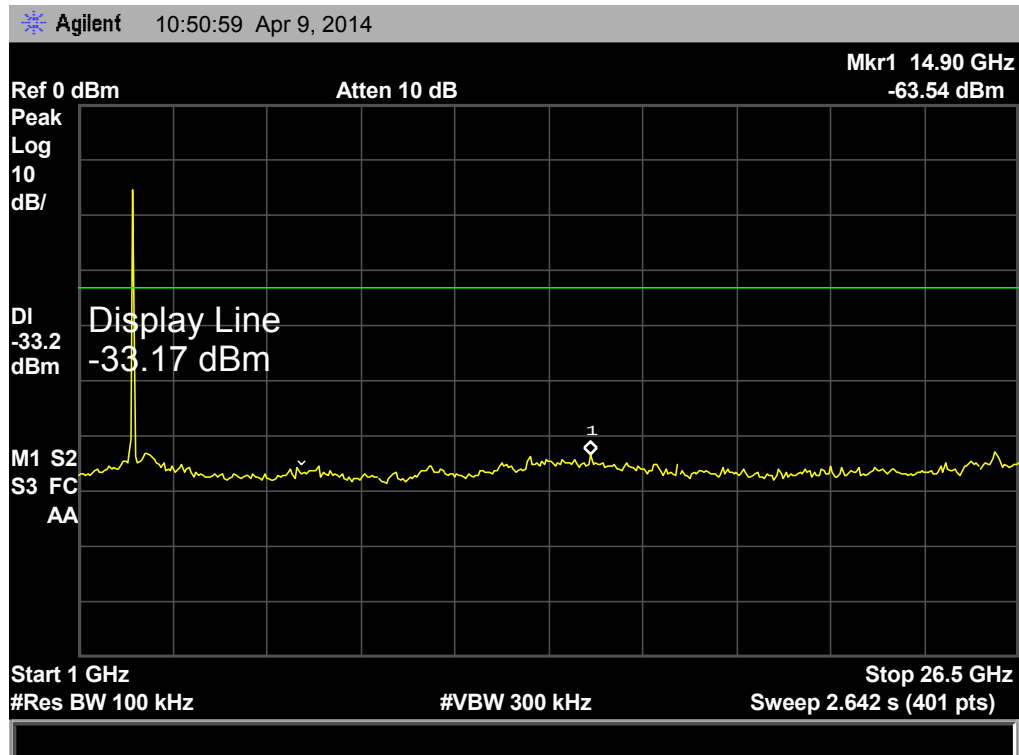
Below 1 GHz



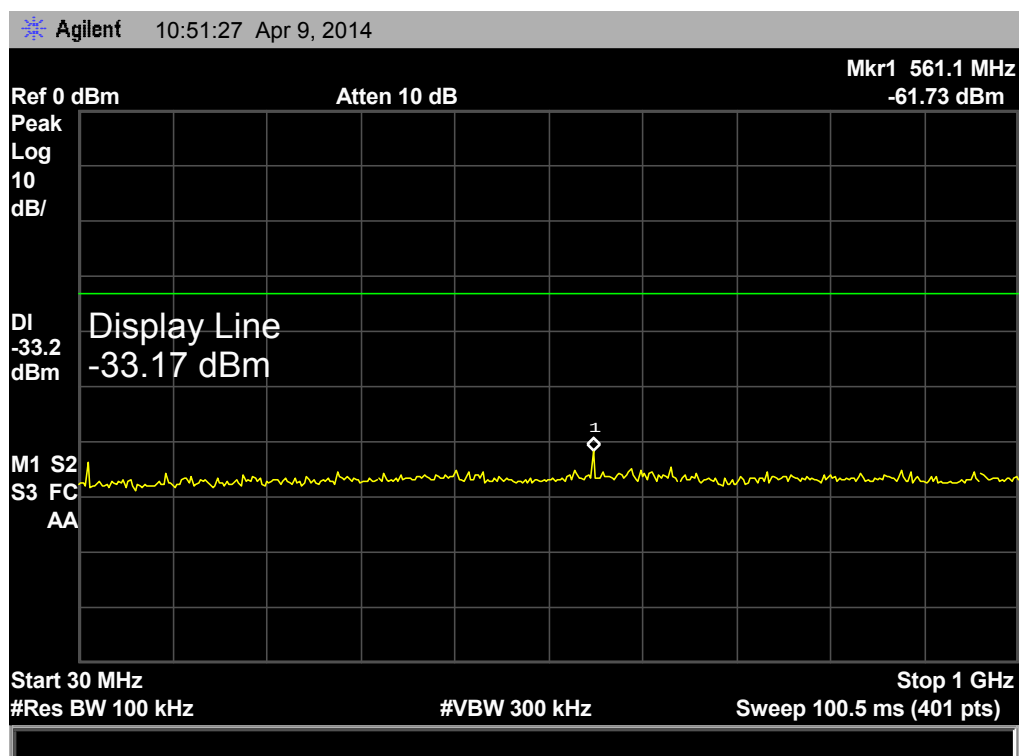
802.11n (HT20) Mode

TX CH 11 2462MHz

Above 1 GHz

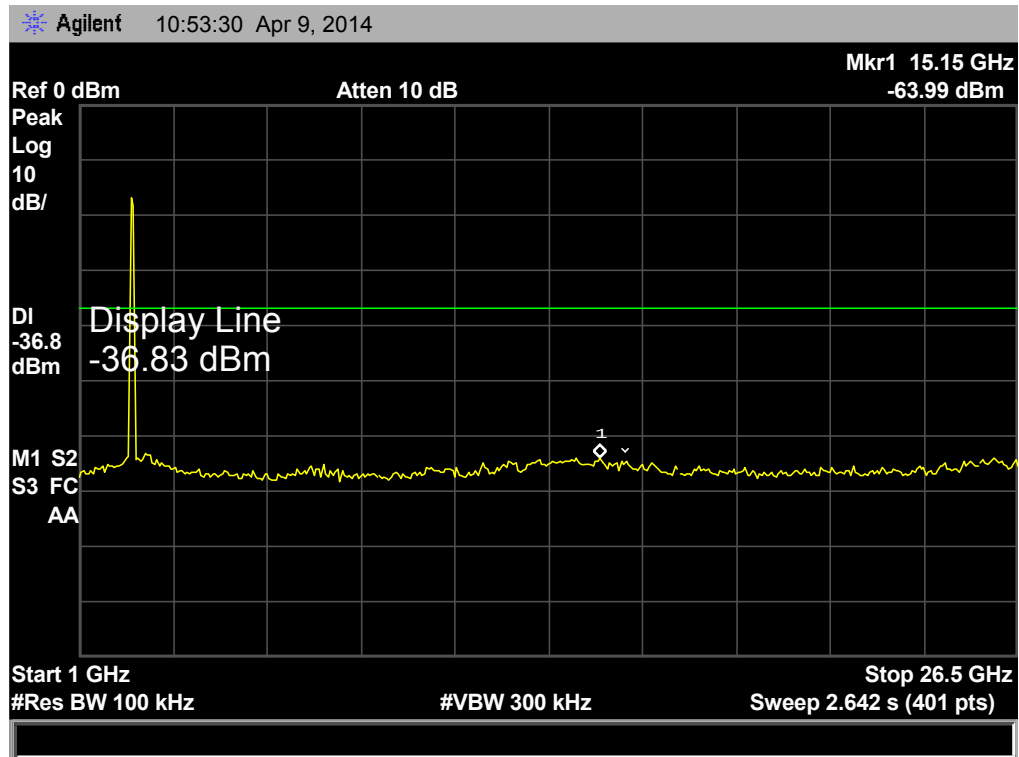


Below 1 GHz

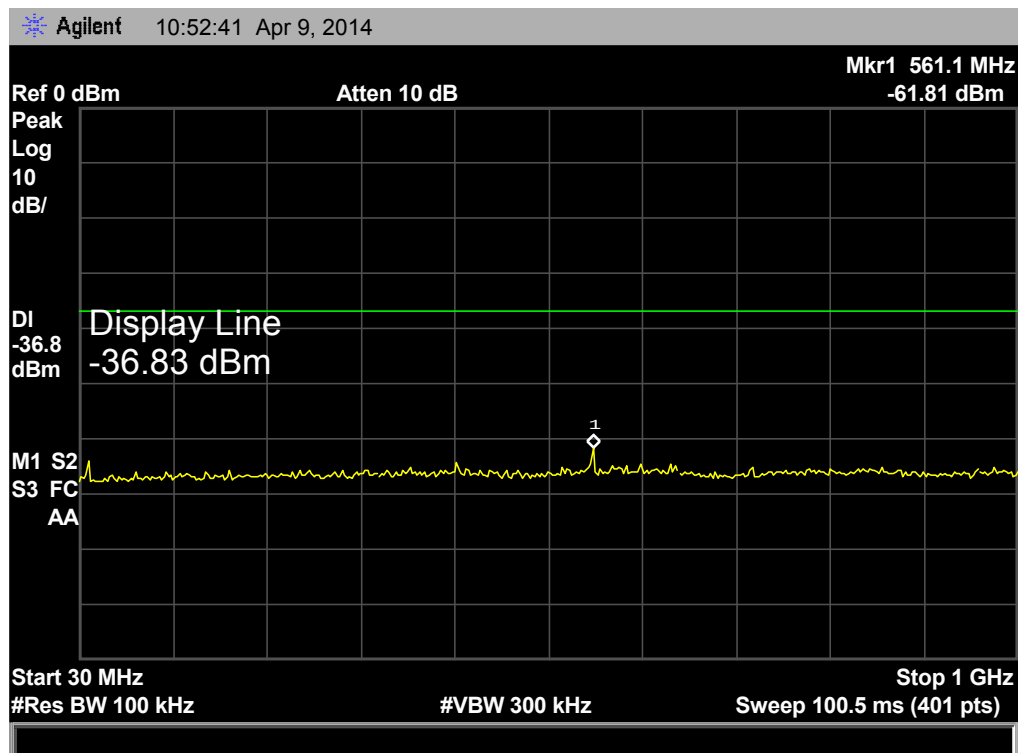


802.11n (HT40) Mode TX CH 03 2422MHz

Above 1 GHz

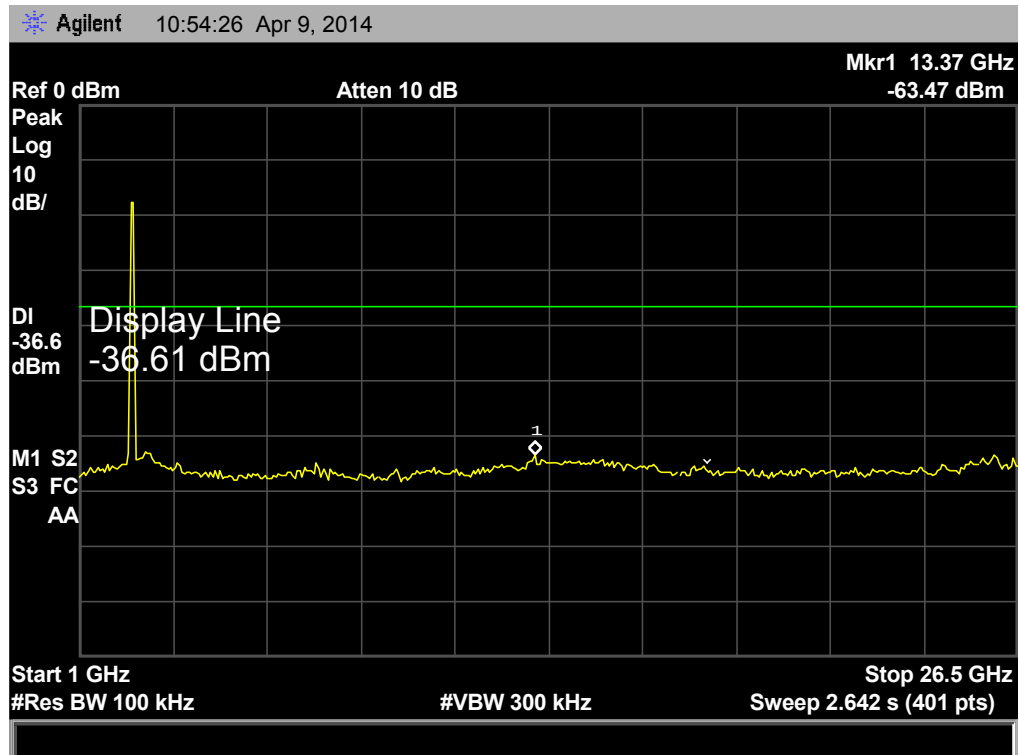


Below 1 GHz

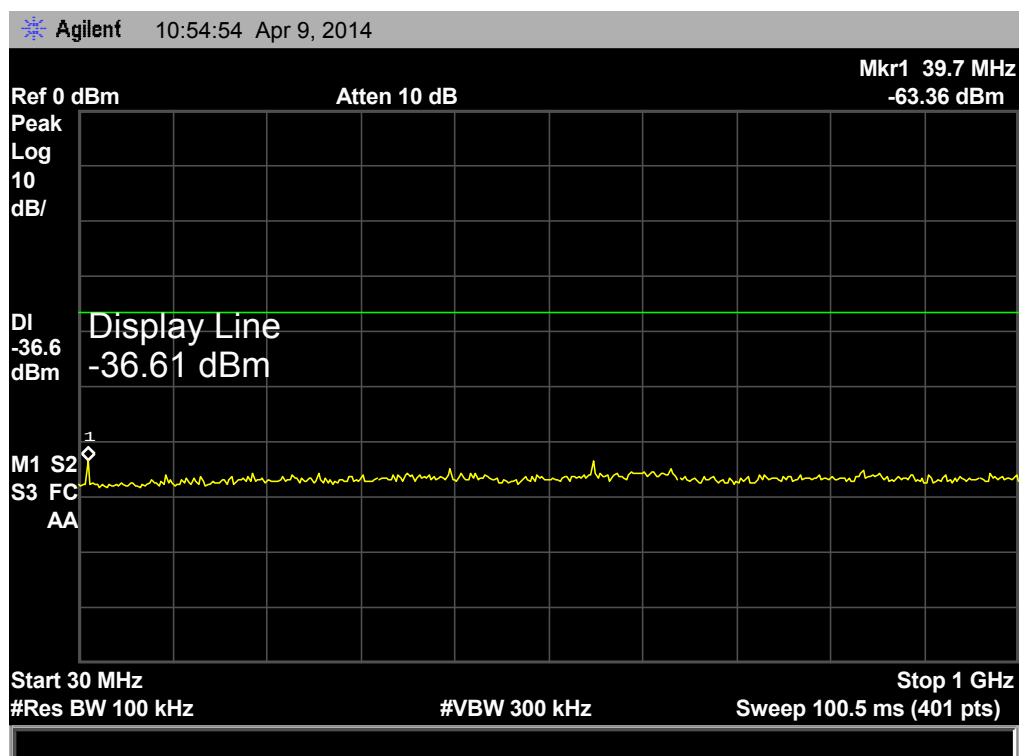


802.11n (HT40) Mode TX CH 06 2437MHz

Above 1 GHz



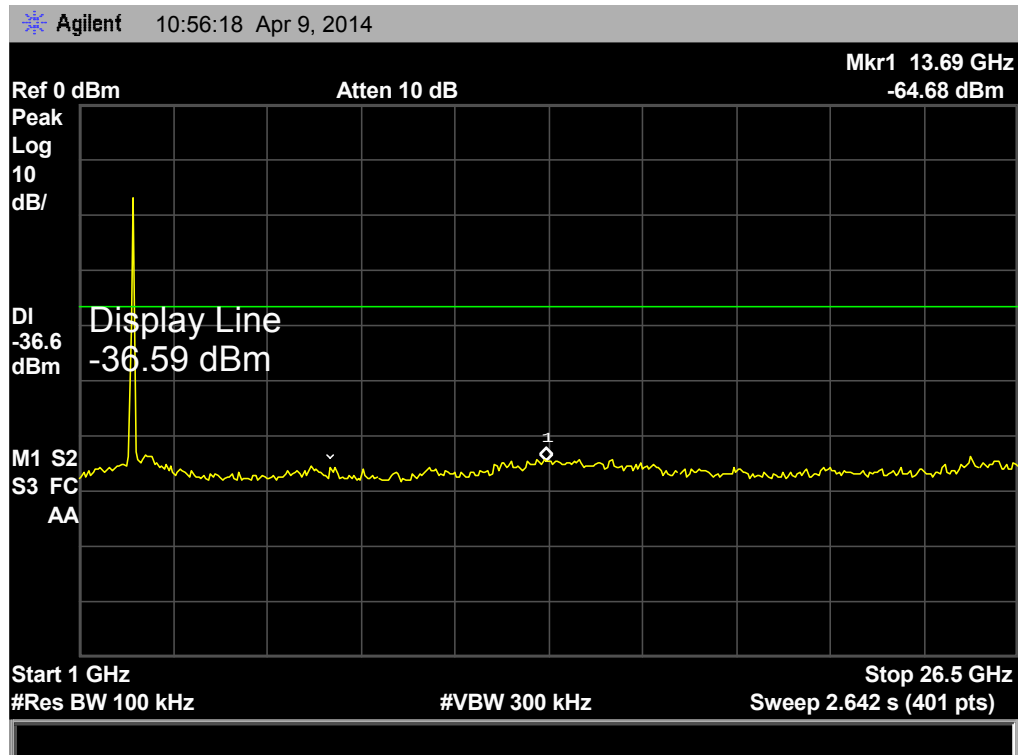
Below 1 GHz



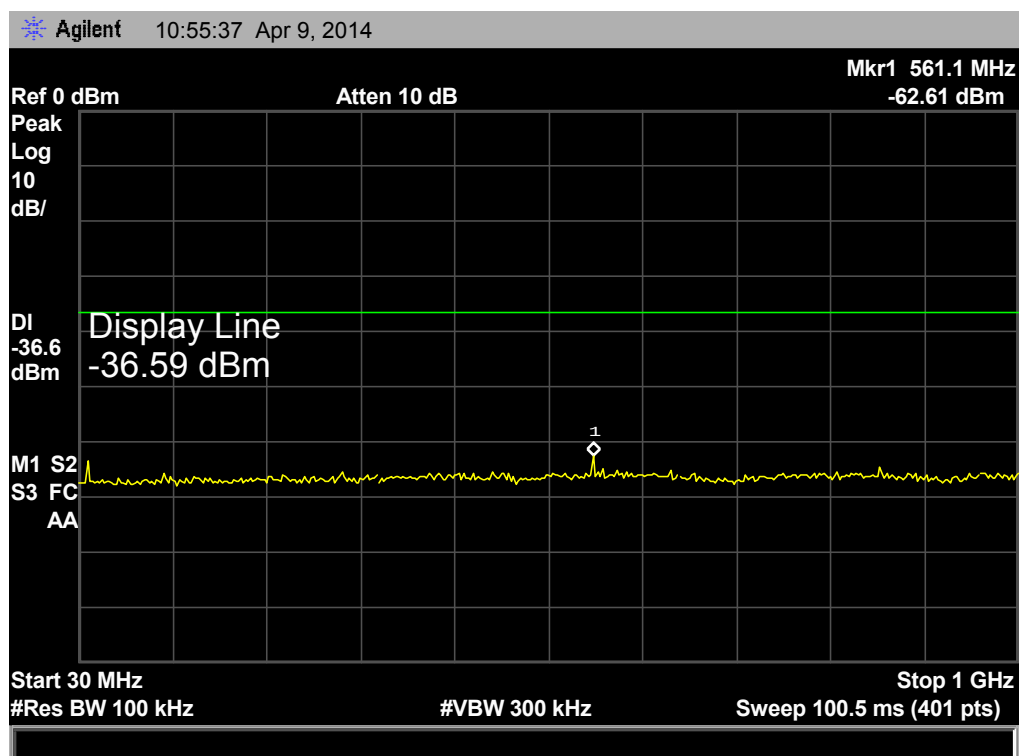
802.11n (HT40) Mode

TX CH 09 2452MHz

Above 1 GHz



Below 1 GHz



10. Antenna Requirement

10.1 Standard Requirement

11.1.1 Standard

FCC Part 15.203

11.1.2 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.

10.2 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.

10.2 Result

The EUT antenna is an Integrated Antenna. It complies with the standard requirement.