



Radio Test Report

FCC ID: 2ABDN44313

This report concerns (check one) : ☒ Original Grant ☐ Class II Change

Issued Date : Dec. 12, 2013
Project No. : 1310147
Equipment : Wi-Fi Handheld Microscope
Model Name : 44313

Applicant : CELESTRON, LLC.
Address : 2835 Columbia Street, Torrance,
California 90503, United States.

Tested by: Neutron Engineering Inc. EMC Laboratory
Date of Receipt: Oct. 22, 2013
Date of Test: Oct. 22, 2013 ~ Dec. 04, 2013

Testing Engineer: Josh Lin
(Josh Lin)

Technical Manager: Jeff Yang
(Jeff Yang)

Authorized Signatory: Andy Chiu
(Andy Chiu)

Neutron Engineering Inc.
B1, No. 37, Lane 365, YangGuang St.,
NeiHu District 114, Taipei, Taiwan.
TEL: +886-2-2657-3299
FAX: +886-2-2657-3331



**Neutron Engineering Inc.****Declaration**

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

Neutron's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **Neutron** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **Neutron** issued reports.

Neutron's reports must not be used by the client to claim product endorsement by the authorities or any agency of the Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **Neutron-self**, extracts from the test report shall not be reproduced except in full with **Neutron's** authorized written approval.

Neutron's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.



Table of Contents

REPORT ISSUED HISTORY	5
1 CERTIFICATION	6
2 SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	8
3 GENERAL INFORMATION	9
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 DESCRIPTION OF TEST MODES	11
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	12
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	13
3.5 DESCRIPTION OF SUPPORT UNITS	14
4 ANTENNA CONDUCTED SPURIOUS EMISSION	15
4.1 LIMIT	15
4.2 MEASUREMENT INSTRUMENTS LIST	15
4.3 TEST PROCEDURES	15
4.4 TEST SETUP LAYOUT	15
4.5 DEVIATION FROM TEST STANDARD	15
4.6 EUT OPERATING CONDITIONS	15
4.7 TEST RESULTS	16
5 6 DB BANDWIDTH	32
5.1 LIMIT	32
5.2 MEASUREMENT INSTRUMENTS LIST	32
5.3 TEST PROCEDURES	32
5.4 TEST SETUP LAYOUT	32
5.5 DEVIATION FROM TEST STANDARD	32
5.6 EUT OPERATING CONDITIONS	32
5.7 TEST RESULTS	33
6 MAXIMUM PEAK CONDUCTED OUTPUT POWER	41
6.1 LIMIT	41
6.2 MEASUREMENT INSTRUMENTS LIST	41
6.3 TEST PROCEDURES	41
6.4 TEST SETUP LAYOUT	41
6.5 DEVIATION FROM TEST STANDARD	41
6.6 EUT OPERATING CONDITIONS	41
6.7 TEST RESULTS	42
7 RADIATED SPURIOUS EMISSION (9 KHZ TO 1 GHZ)	46
7.1 LIMIT	46
7.2 MEASUREMENT INSTRUMENTS LIST	47



Table of Contents

7.3	MEASURING INSTRUMENTS SETTING	47
7.4	TEST PROCEDURES	48
7.5	DEVIATION FROM TEST STANDARD	48
7.6	TEST SETUP LAYOUT	48
7.7	EUT OPERATING CONDITIONS	49
7.8	TEST RESULTS	50
8	RADIATED SPURIOUS EMISSION (ABOVE 1 GHZ)	52
8.1	LIMIT	52
8.2	MEASUREMENT INSTRUMENTS LIST	53
8.3	MEASURING INSTRUMENTS SETTING	53
8.4	TEST PROCEDURES	54
8.5	DEVIATION FROM TEST STANDARD	54
8.6	TEST SETUP LAYOUT	54
8.7	EUT OPERATING CONDITIONS	55
8.8	TEST RESULTS	56
8.9	TEST RESULTS (RESTRICTED BANDS)	104
9	POWER SPECTRAL DENSITY	120
9.1	LIMIT	120
9.2	MEASUREMENT INSTRUMENTS LIST	120
9.3	TEST PROCEDURES	120
9.4	TEST SETUP LAYOUT	120
9.5	DEVIATION FROM TEST STANDARD	120
9.6	EUT OPERATING CONDITIONS	120
9.7	TEST RESULTS	121
10	RF EXPOSURE COMPLIANCE	129
10.1	LIMIT	129
10.2	MEASUREMENT INSTRUMENTS LIST	129
10.3	MPE CALCULATION METHOD	129
10.4	TEST SETUP LAYOUT	130
10.5	DEVIATION FROM TEST STANDARD	130
10.6	EUT OPERATING CONDITIONS	130
10.7	TEST RESULTS	131
11	EUT TEST PHOTO	135



REPORT ISSUED HISTORY

Revised Version No.	Description	Issued Date
-	Initial Issue.	Dec. 12, 2013

**1 CERTIFICATION**

Equipment : Wi-Fi Handheld Microscope
Brand Name : CELESTRON
Model Name : 44313
Applicant : CELESTRON, LLC.
Date of Test : Oct. 22, 2013 ~ Dec. 04, 2013
Standards : FCC Part 15, Subpart C: 2012
ANSI C63.4: 2009

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-1310147) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

**2. SUMMARY OF TEST RESULTS**

Standard Clause	Test Item	Result
15.207	Conducted Emission	N/A
15.247 (c)	Antenna conducted Spurious Emission	PASS
15.247 (a)(2)	6dB Bandwidth	PASS
15.247 (b)	Maximum Peak Conducted Output Power	PASS
15.247 (c)	Radiated Spurious Emission	PASS
15.247 (d)(e)	Power Spectral Density	PASS
15.205	Restricted Bands	PASS
15.203	Antenna Requirement	PASS
1.1307 1.1310 2.1091 2.1093	RF Exposure Compliance	PASS

NOTE:

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



2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Radiated emission Test (Below 1 GHz):

CB08: (FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

Radiated emission Test (Above 1 GHz):

CB08: (VCCI RN: G-91; FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty is not specified by FCC rules and for reference only.

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%**.

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

Radiated emission test:

Test Site	Item	Measurement Frequency Range	Uncertainty	NOTE
CB08	Radiated emission at 3m	Horizontal Polarization	30 - 200MHz	3.35 dB
			200 - 1000MHz	3.11 dB
			1 - 18GHz	3.97 dB
			18 - 40GHz	4.01 dB
		Vertical Polarization	30 - 200MHz	3.22 dB
			200 - 1000MHz	3.24 dB
			1 - 18GHz	4.05 dB
			18 - 40GHz	4.04 dB

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz: 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) –
30 MHz – 1000 MHz: 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .

If U_{lab} is less than or equal to U_{CISPR} , then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{CISPR} , then:

- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{CISPR})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{CISPR})$, exceeds the disturbance limit.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wi-Fi Handheld Microscope	
Brand Name	CELESTRON	
Model Name	44313	
OEM Brand/Model Name	N/A	
Model Difference	N/A	
Product Description	The EUT is a Wi-Fi Handheld Microscope.	
	Operation Frequency	2412~2462 MHz
	Modulation Type	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM,(64 QAM, 16 QAM, QPSK, BPSK) IEEE 802.11n: OFDM(64 QAM, 16 QAM, QPSK, BPSK)
	Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 150 Mbps
	Number Of Channel	Please refer to the Note 2.
	Antenna Designation	Please refer to the Note 3.
	Antenna Gain(Peak)	Please refer to the Note 3.
	Maximum Conducted Output Power	IEEE 802.11b: 0.68 dBm IEEE 802.11g: 13.66 dBm IEEE 802.11n (20 MHz): 13.30 dBm IEEE 802.11n (40 MHz): 10.92 dBm
	More details of EUT technical specification, please refer to the User's Manual.	
Power Source	Battery supplied.	
Power Rating	I/P: DC 4.5V (3 * 1.5V AA)	
Connecting I/O Port(s)	Please refer to the User's Manual	
Products Covered	N/A	
EUT Modification(s)	N/A	

NOTE:

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

IEEE 802.11b/g/n (20MHz)					
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		

IEEE 802.11n (40MHz)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452
04	2427	07	2442		
05	2432	08	2447		



3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	WIRE	Solder	2.79



3.2 DESCRIPTION OF TEST MODES

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

Test Items	IEEE	Mode	Data Rate	Channel	Note
Conducted Emission	802.11b	DSSS	1 Mbps	06	
Antenna conducted Spurious Emission	802.11b	DSSS	1 Mbps	01/06/11	
	802.11g	OFDM	6 Mbps	01/06/11	
	802.11n (20 MHz)	BPSK	MCS0	01/06/11	
	802.11n (40 MHz)	BPSK	MCS0	03/06/09	
6 dB Bandwidth	802.11b	DSSS	1 Mbps	01/06/11	
	802.11g	OFDM	6 Mbps	01/06/11	
	802.11n (20 MHz)	BPSK	MCS0	01/06/11	
	802.11n (40 MHz)	BPSK	MCS0	03/06/09	
Maximum Peak Conducted Output Power	802.11b	DSSS	1 Mbps	01/06/11	
	802.11g	OFDM	6 Mbps	01/06/11	
	802.11n (20 MHz)	BPSK	MCS0	01/06/11	
	802.11n (40 MHz)	BPSK	MCS0	03/06/09	
Radiated Spurious Emission (30 MHz to 1 GHz)	802.11n (20 MHz)	OFDM	MCS0	06	
Radiated Spurious Emission (above 1 GHz)	802.11b	DSSS	1 Mbps	01/06/11	
	802.11g	OFDM	6 Mbps	01/06/11	
	802.11n (20 MHz)	BPSK	MCS0	01/06/11	
	802.11n (40 MHz)	BPSK	MCS0	03/06/09	
Restricted Bands	802.11b	DSSS	1 Mbps	01/06/11	
	802.11g	OFDM	6 Mbps	01/06/11	
	802.11n (20 MHz)	BPSK	MCS0	01/06/11	
	802.11n (40 MHz)	BPSK	MCS0	03/06/09	
Antenna Requirement	---		---	---	
RF Exposure Compliance	---		---	---	

NOTE: The measurements are performed at the highest, middle, lowest available channels.

**3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING**

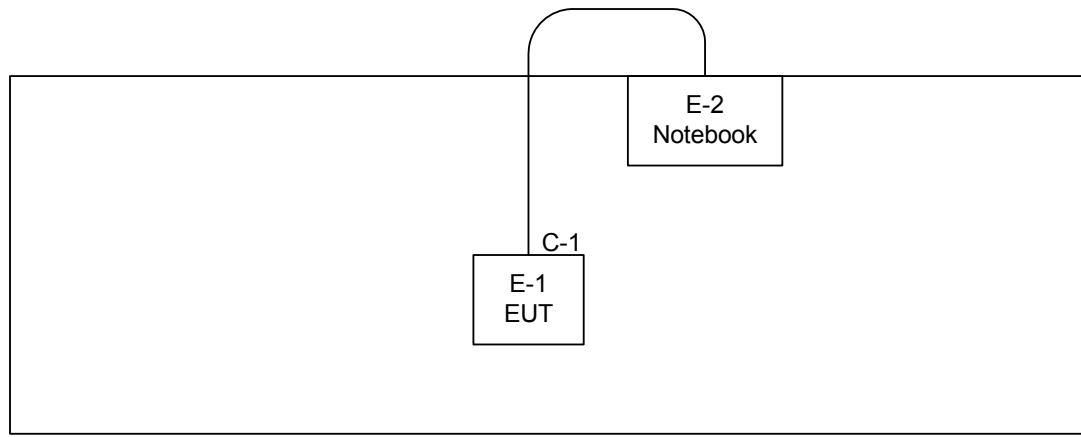
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

IEEE	802.11b			802.11g		
Test software Version	QA_RT3x7x_V1.5.6.6			QA_RT3x7x_V1.5.6.6		
Frequency	2412 MHz	2437 MHz	2462 MHz	2412 MHz	2437 MHz	2462 MHz
Parameter	1	1	1	1	1	1

IEEE	802.11n (20 MHz)			802.11n (40 MHz)		
Test software Version	QA_RT3x7x_V1.5.6.6			QA_RT3x7x_V1.5.6.6		
Frequency	2412 MHz	2437 MHz	2462 MHz	2422 MHz	2437 MHz	2452 MHz
Parameter	1	1	1	1	1	1



3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



C-1 Data Cable

**3.5 DESCRIPTION OF SUPPORT UNITS**

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.	FCC ID	Series No.	Note
E-1	Wi-Fi Handheld Microscope	CELESTRON	44313	2ABDN44313	N/A	EUT
E-2	Notebook PC	DELL	D620	DOC	7T390 A03	

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

NOTE: The support equipment was authorized by Declaration of Conformity (DOC).



4 ANTENNA CONDUCTED SPURIOUS EMISSION

4.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Antenna conducted Spurious Emission	30-25000	20 dB less than the peak value of fundamental frequency

4.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

4.3 TEST PROCEDURES

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

4.4 TEST SETUP LAYOUT



4.5 DEVIATION FROM TEST STANDARD

No deviation

4.6 EUT OPERATING CONDITIONS

The EUT used during radiated emission measurement was designed to exercise in a manner similar to a typical use.

**4.7 TEST RESULTS**

EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b		

Channel of Worst Data

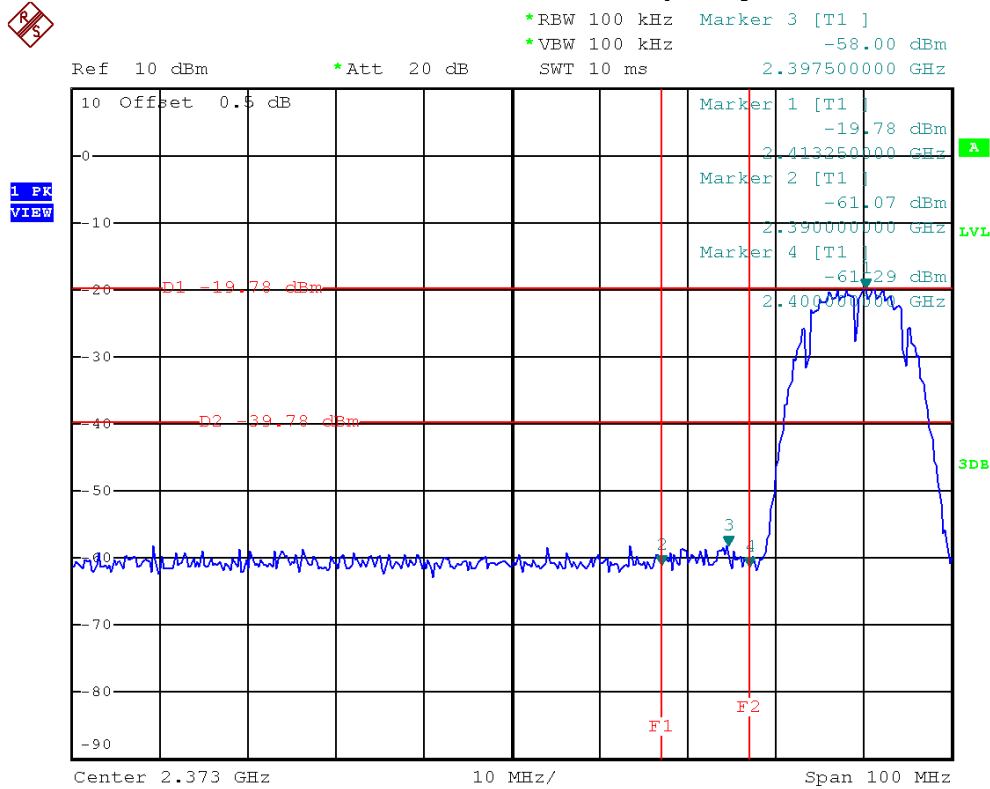
The max. radio frequency power in any 100 kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2397.50	-58.00	2488.25	-57.66

Result

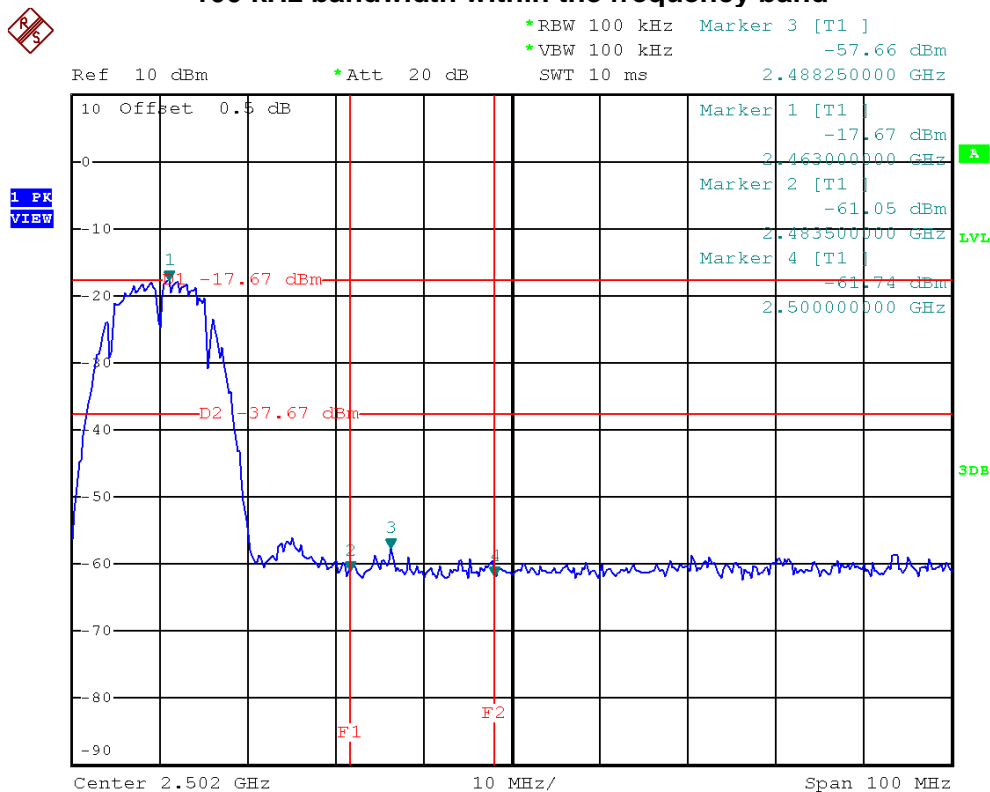
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.



IEEE 802.11b/The max. radio frequency power in any
100kHz bandwidth outside the frequency band

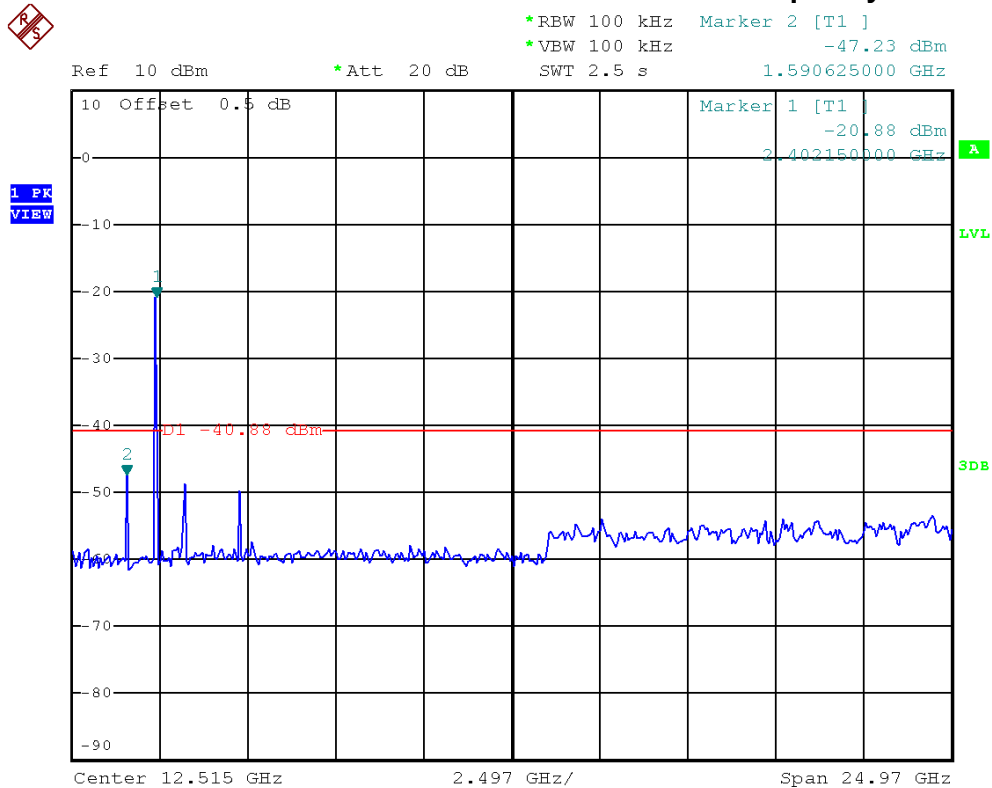


IEEE 802.11b/The max. radio frequency power in any
100 kHz bandwidth within the frequency band

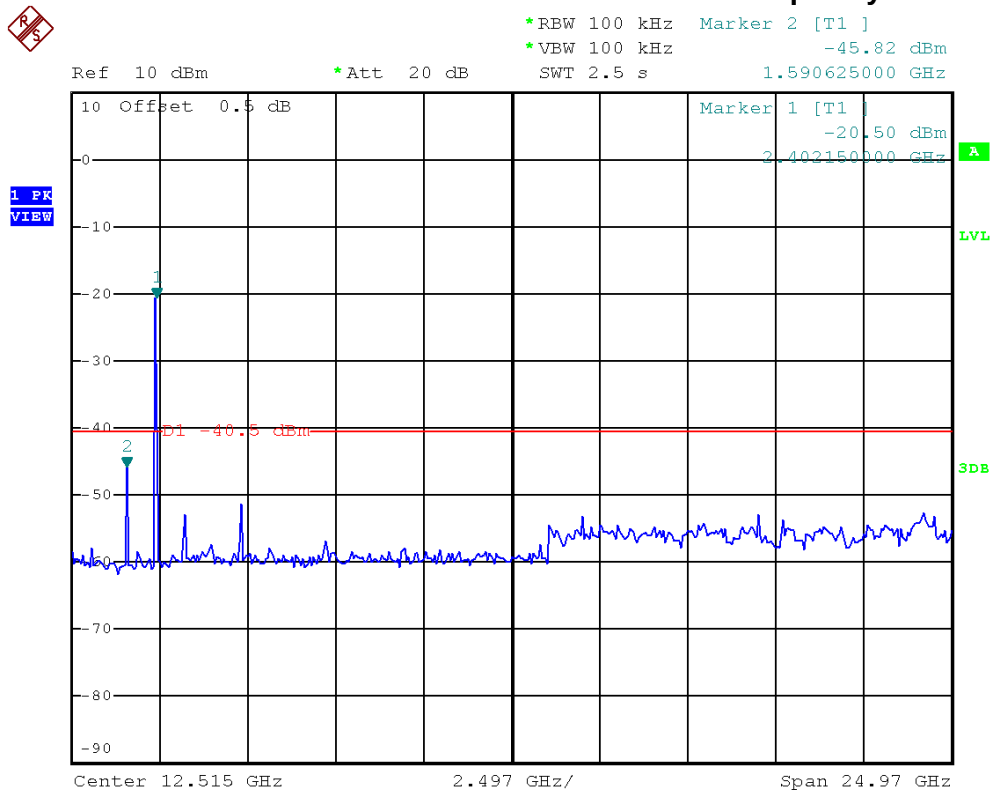




IEEE 802.11b/2412 MHz/10 Harmonic of the frequency



IEEE 802.11b/2437 MHz/10 Harmonic of the frequency

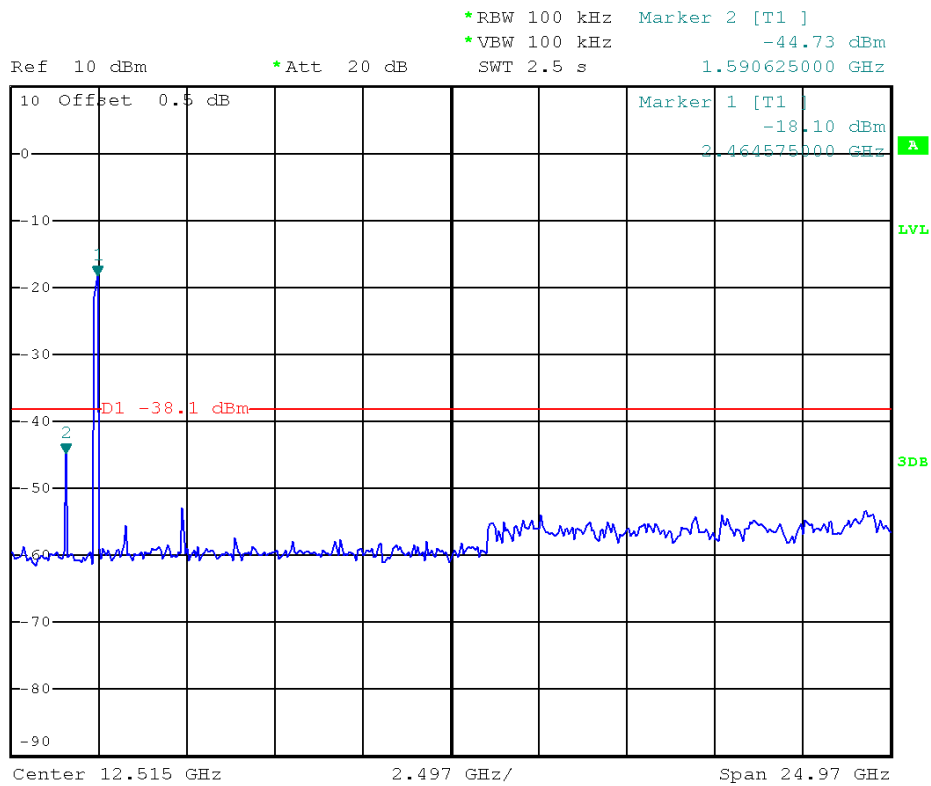




IEEE 802.11b/2462 MHz/10 Harmonic of the frequency



1 PK
VIEW



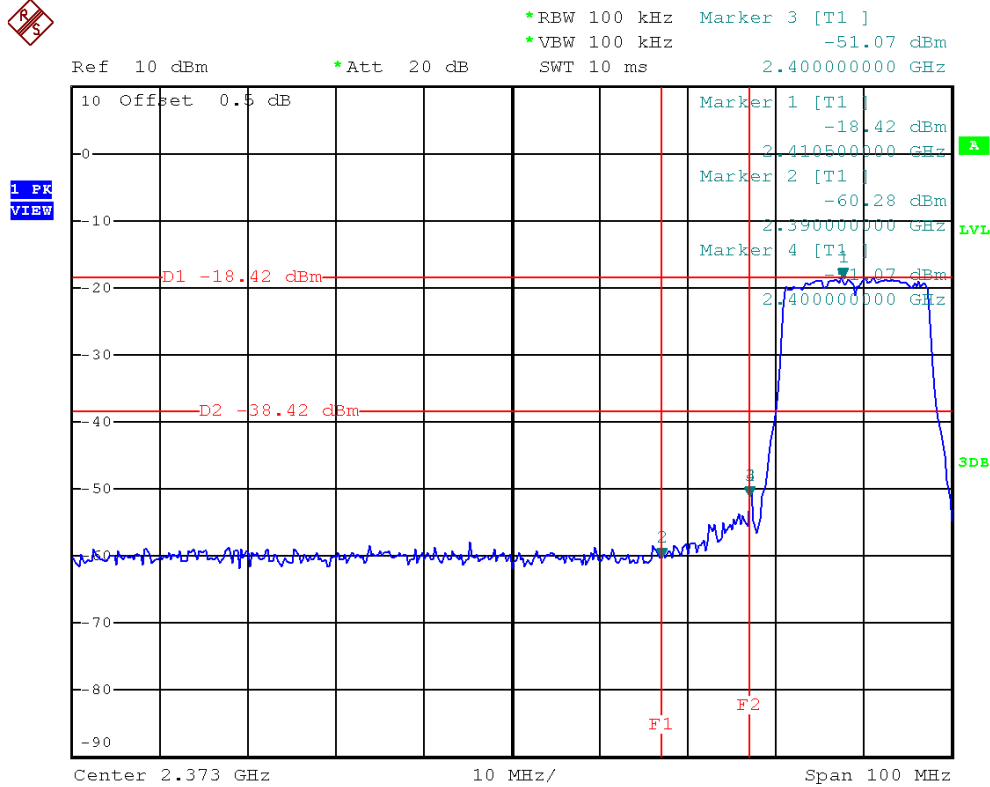


EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g		

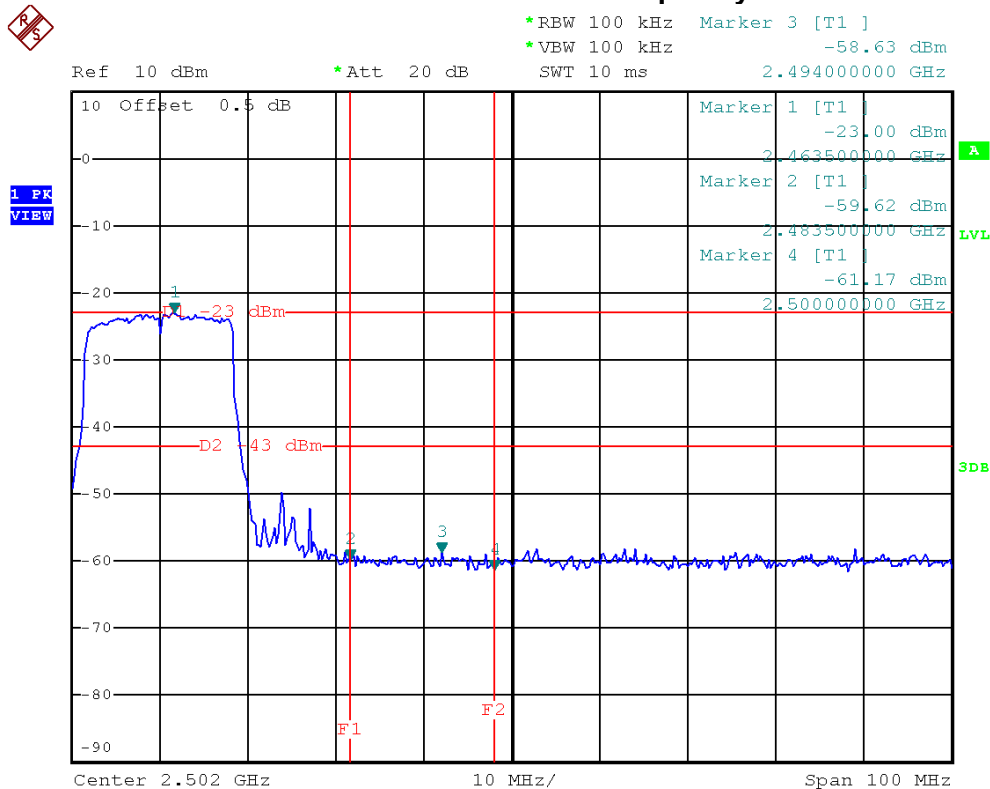
Channel of Worst Data			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2400.00	-51.07	2494.00	-58.63
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.			



IEEE 802.11g/The max. radio frequency power in any
100kHz bandwidth outside the frequency band

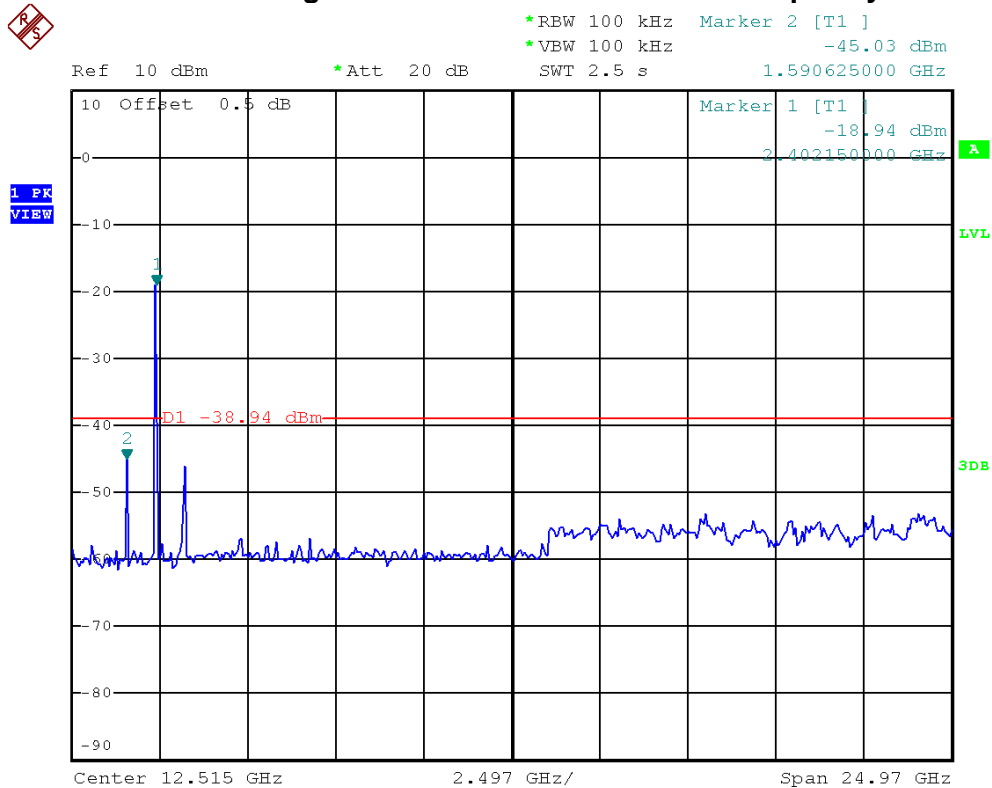


IEEE 802.11g/The max. radio frequency power in any
100 kHz bandwidth within the frequency band

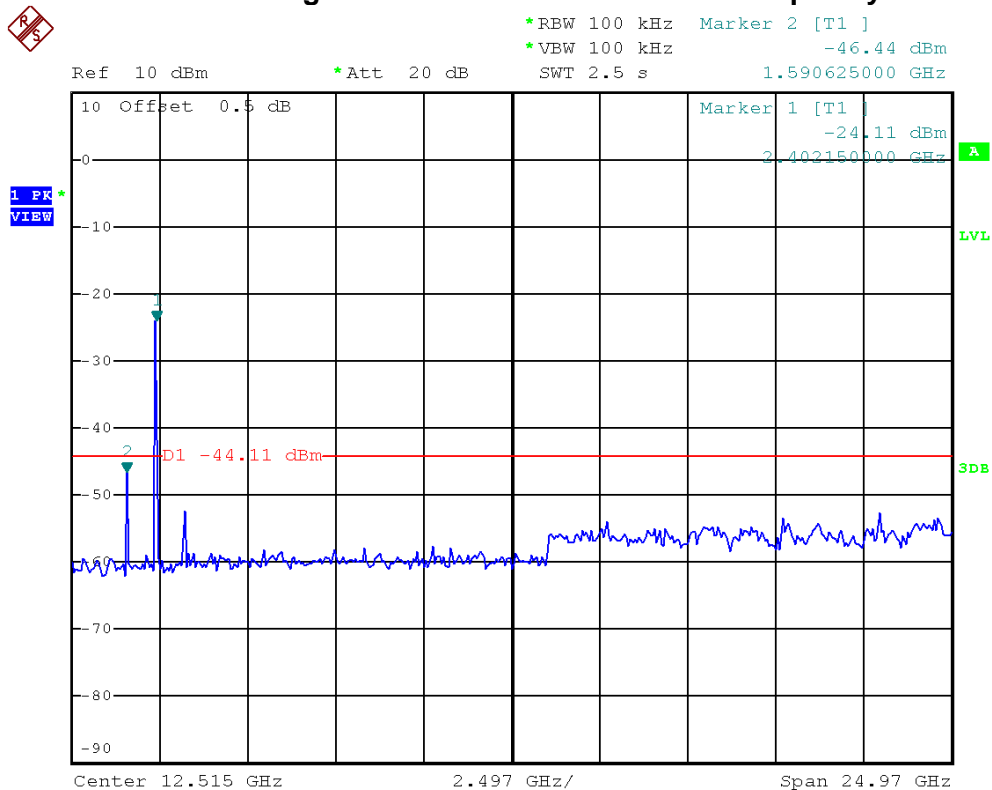




IEEE 802.11g/2412 MHz/10 Harmonic of the frequency

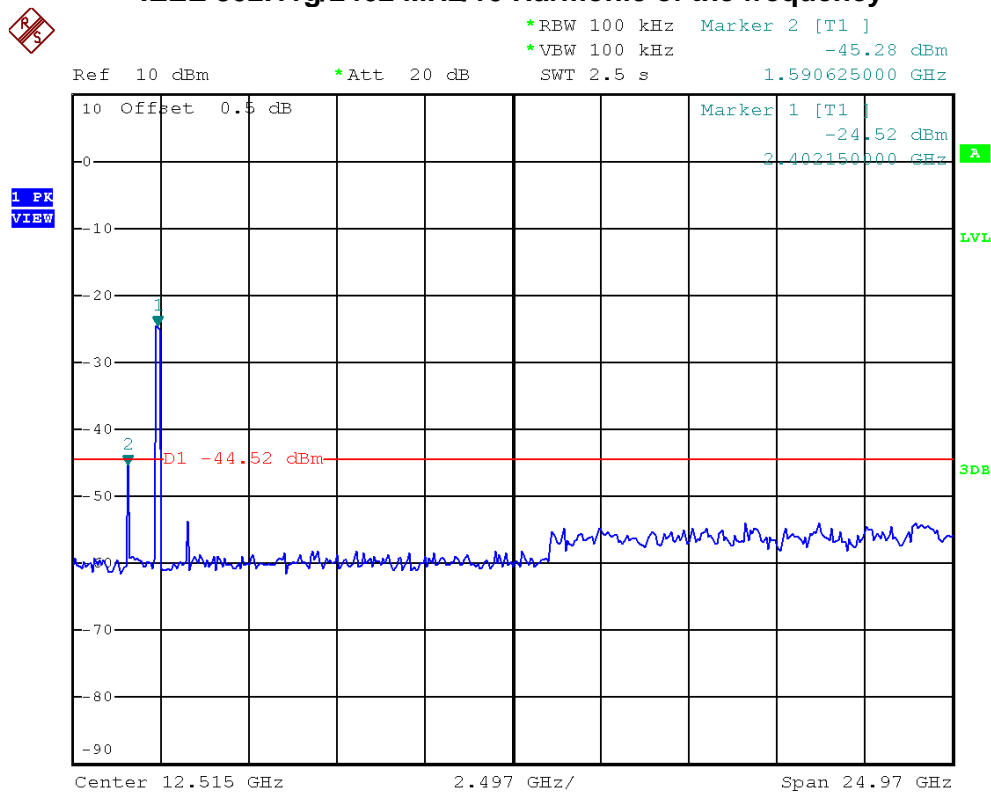


IEEE 802.11g/2437 MHz/10 Harmonic of the frequency





IEEE 802.11g/2462 MHz/10 Harmonic of the frequency



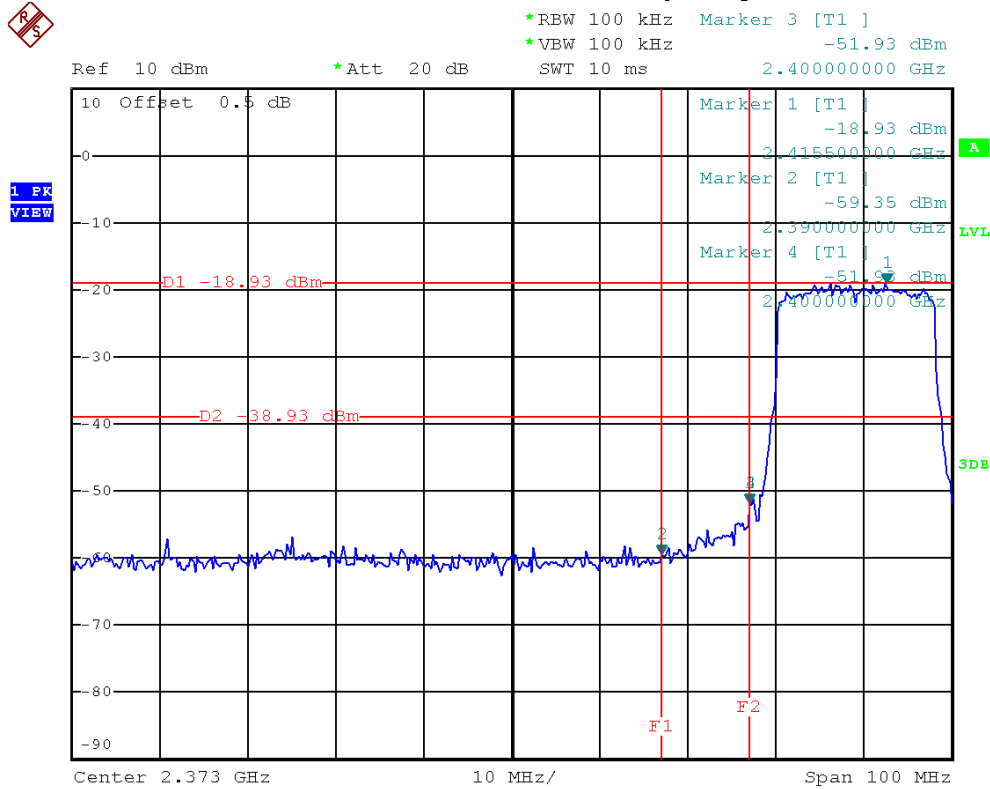


EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)		

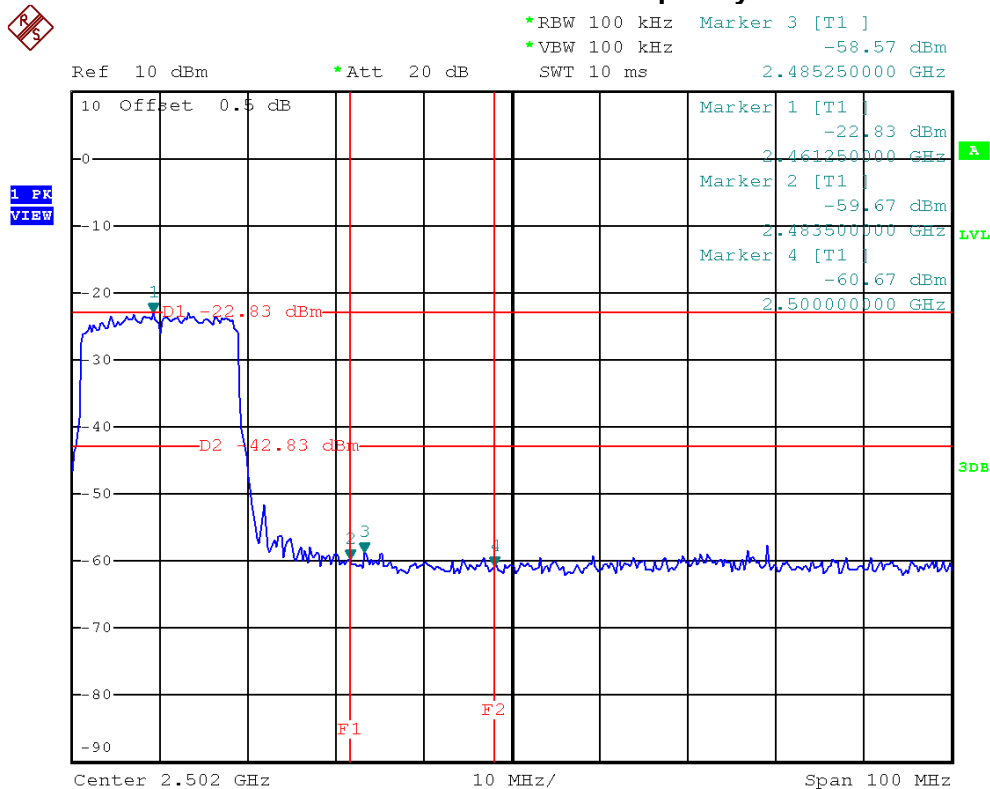
Channel of Worst Data			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2400.00	-51.93	2485.25	-58.57
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.			



IEEE 802.11n (20 MHz)/The max. radio frequency power in any 100kHz bandwidth outside the frequency band

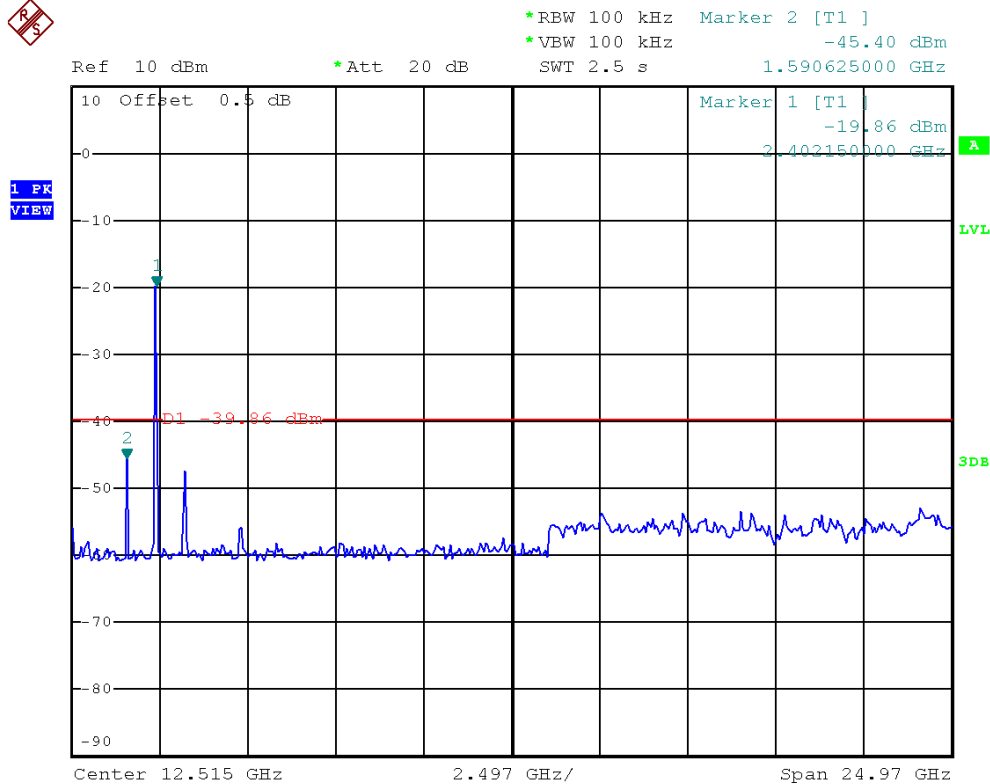


IEEE 802.11n (20 MHz)/The max. radio frequency power in any 100 kHz bandwidth within the frequency band

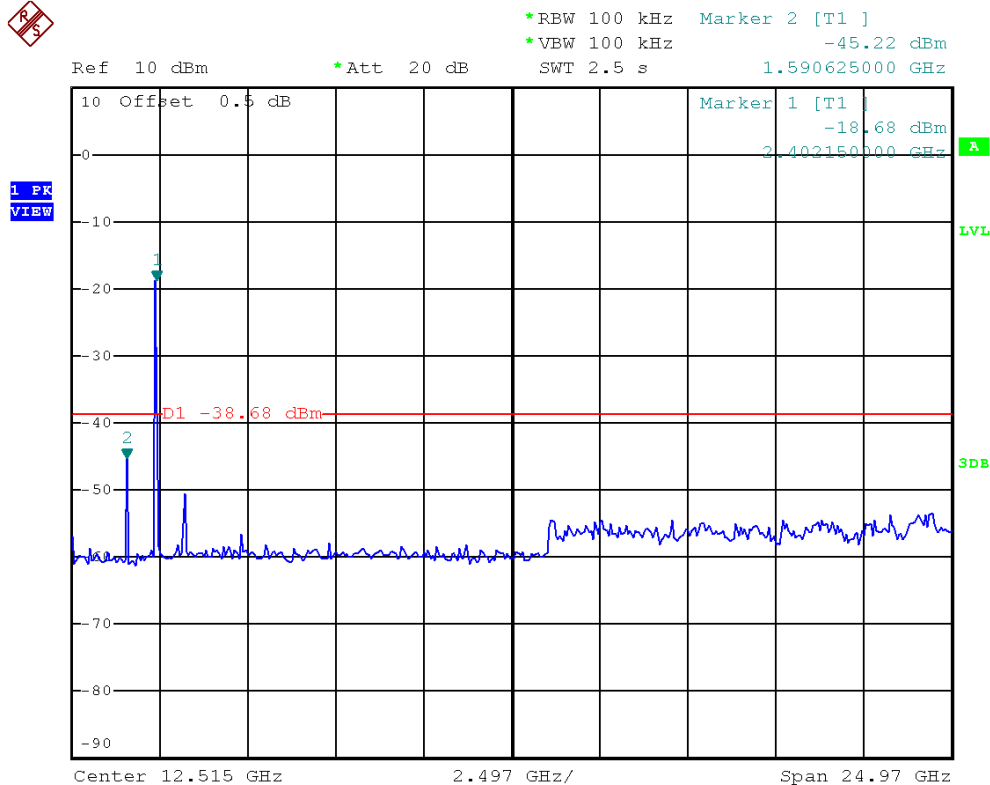




IEEE 802.11n (20 MHz)/2412 MHz/10 Harmonic of the frequency



IEEE 802.11n (20 MHz)/2437 MHz/10 Harmonic of the frequency





IEEE 802.11n (20 MHz)/2462 MHz/10 Harmonic of the frequency

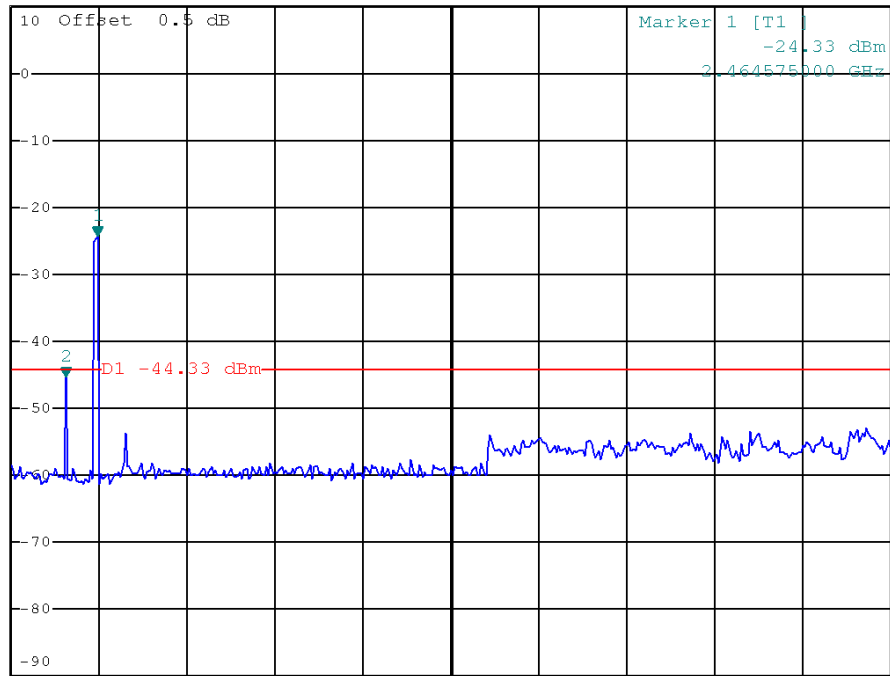


*RBW 100 kHz Marker 2 [T1]
*VBW 100 kHz -45.38 dBm
SWT 2.5 s 1.590625000 GHz

Ref 10 dBm

*Att 20 dB

1 PK
VIEW



Center 12.515 GHz

2.497 GHz/

Span 24.97 GHz

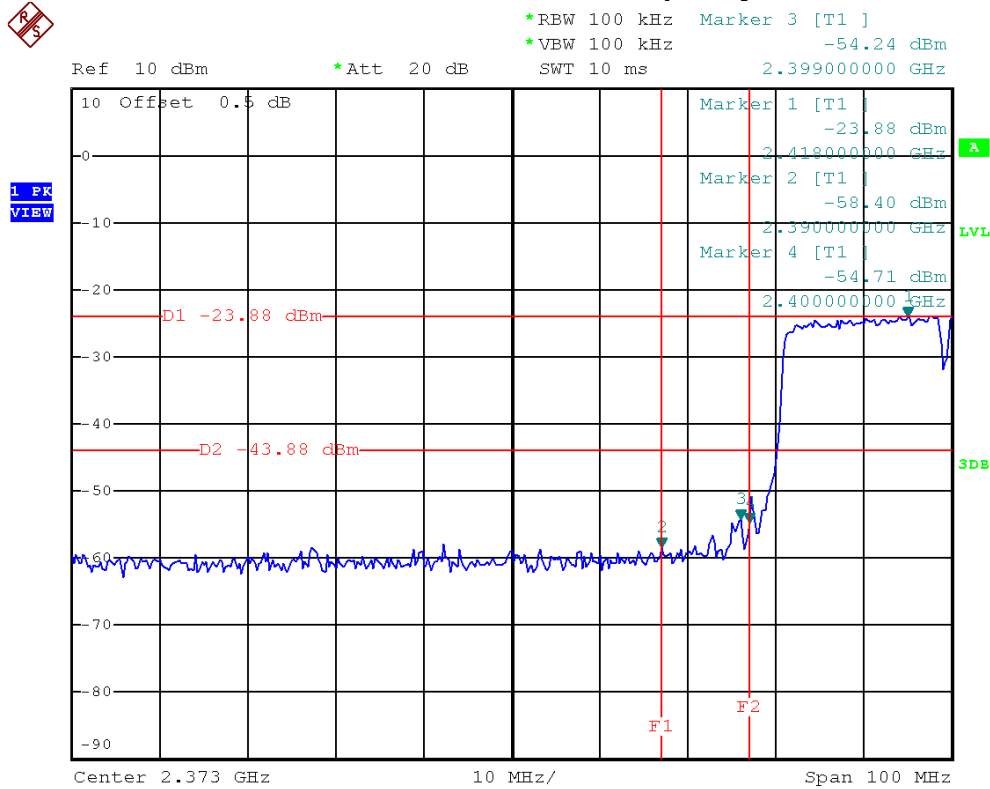


EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)		

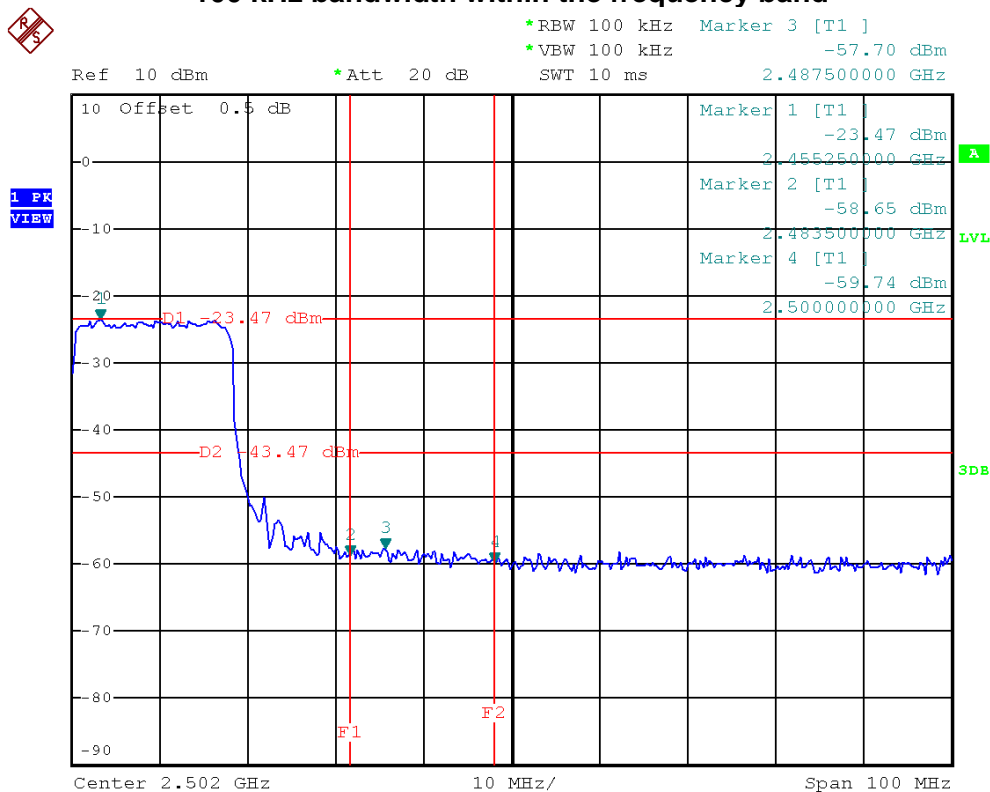
Channel of Worst Data			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2399.00	-54.24	2487.50	-57.70
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.			



IEEE 802.11n (40 MHz)/The max. radio frequency power in any 100kHz bandwidth outside the frequency band

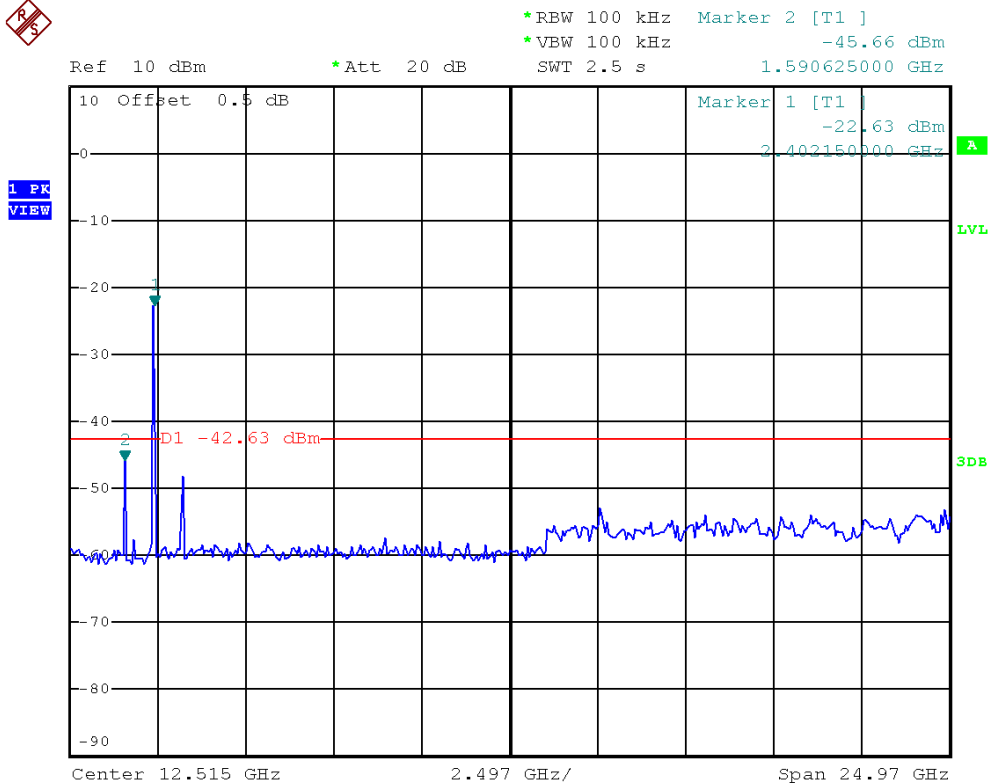


IEEE 802.11n (40 MHz)/The max. radio frequency power in any 100 kHz bandwidth within the frequency band

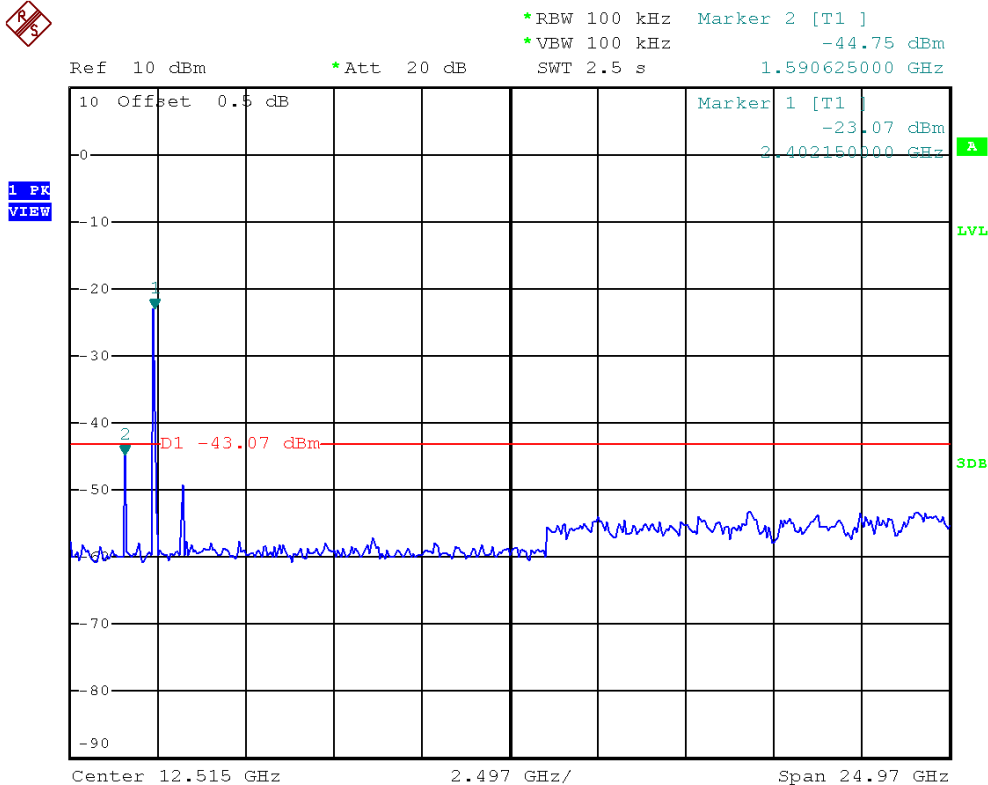




IEEE 802.11n (40 MHz)/2422 MHz/10 Harmonic of the frequency



IEEE 802.11n (40 MHz)/2437 MHz/10 Harmonic of the frequency





IEEE 802.11n (40 MHz)/2452 MHz/10 Harmonic of the frequency

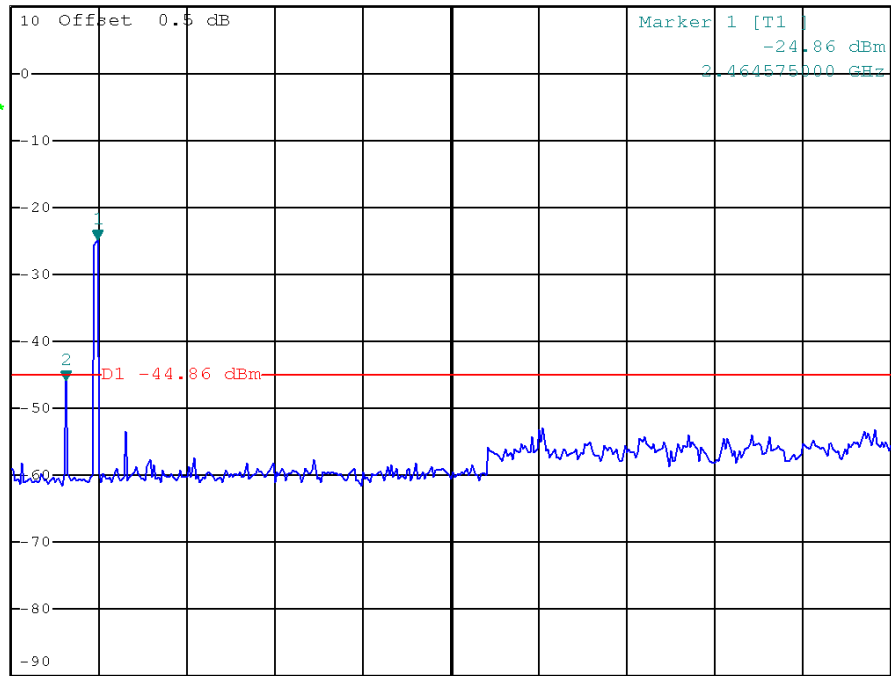


*RBW 100 kHz Marker 2 [T1]
*VBW 100 kHz -45.72 dBm
SWT 2.5 s 1.590625000 GHz

Ref 10 dBm

*Att 20 dB

1 PK
VIEW



Center 12.515 GHz

2.497 GHz/

Span 24.97 GHz

**5.6 DB BANDWIDTH****5.1 LIMIT**

Test Item	Frequency Range (MHz)	Limit
Bandwidth	2400-2483.5	$\geq 500\text{KHz}$ (6dB bandwidth)

5.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

5.3 TEST PROCEDURES

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

5.4 TEST SETUP LAYOUT**5.5 DEVIATION FROM TEST STANDARD**

No deviation

5.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

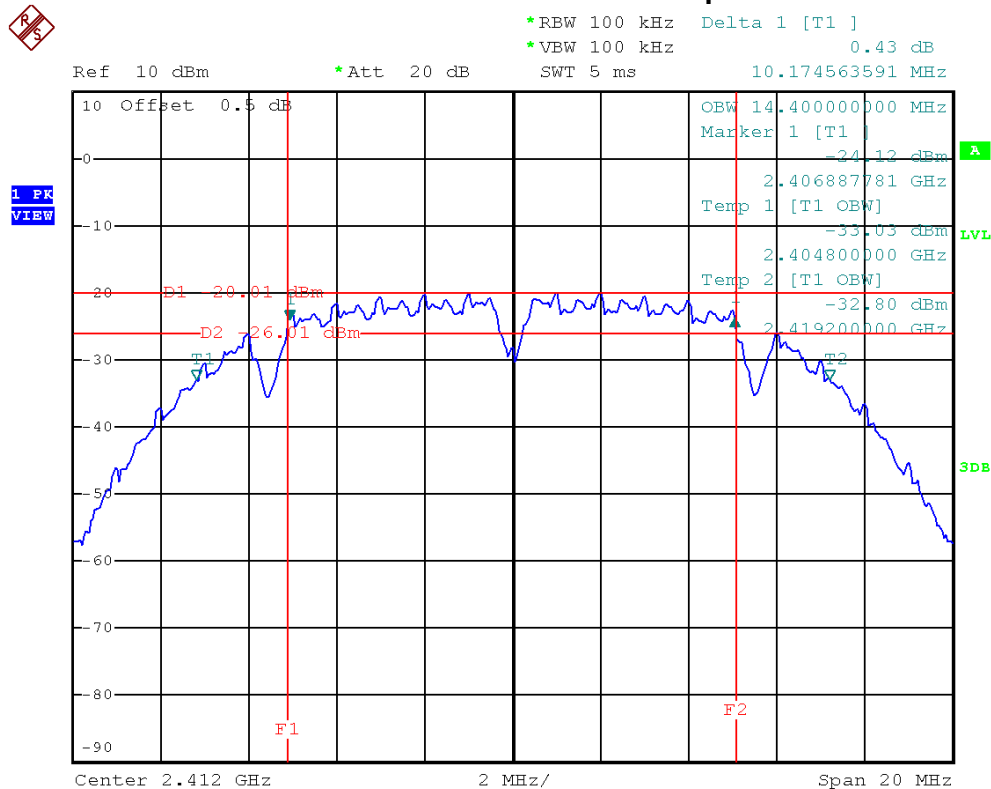


5.7 TEST RESULTS

EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2412 MHz, 2437 MHz, 2462 MHz		

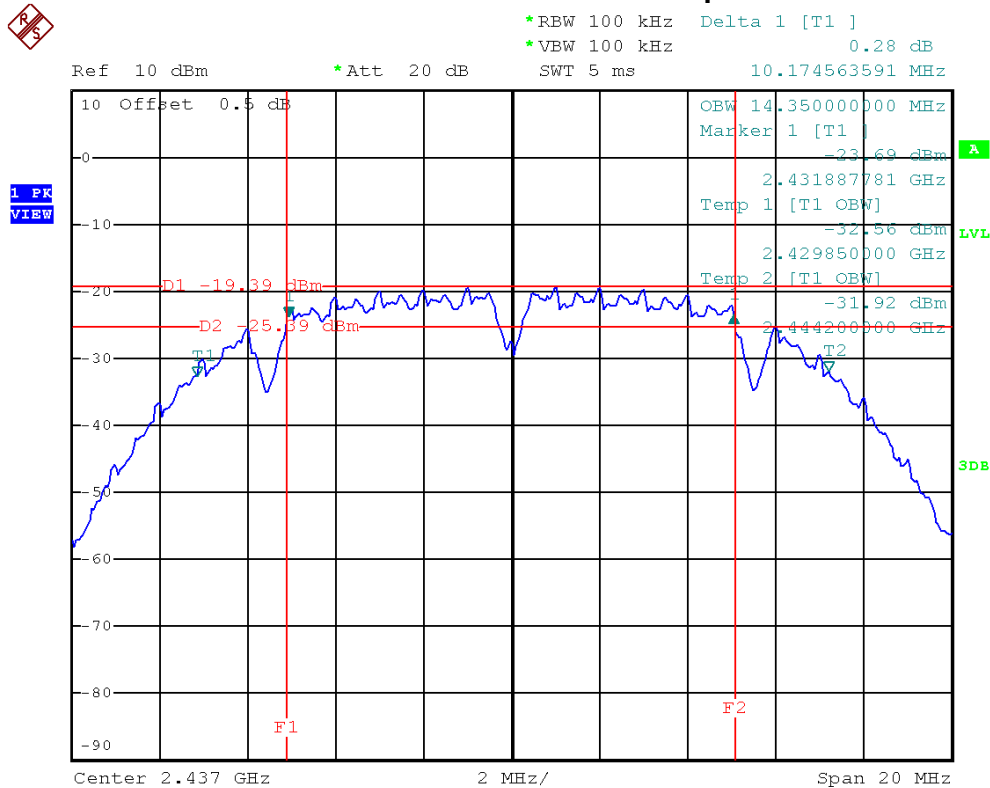
Frequency	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
2412 MHz	10.17	14.40	≥ 500 kHz	PASS
2437 MHz	10.17	14.35	≥ 500 kHz	PASS
2462 MHz	10.17	14.35	≥ 500 kHz	PASS

IEEE 802.11b/2412 MHz/6 dB and 99% Occupied Bandwidth

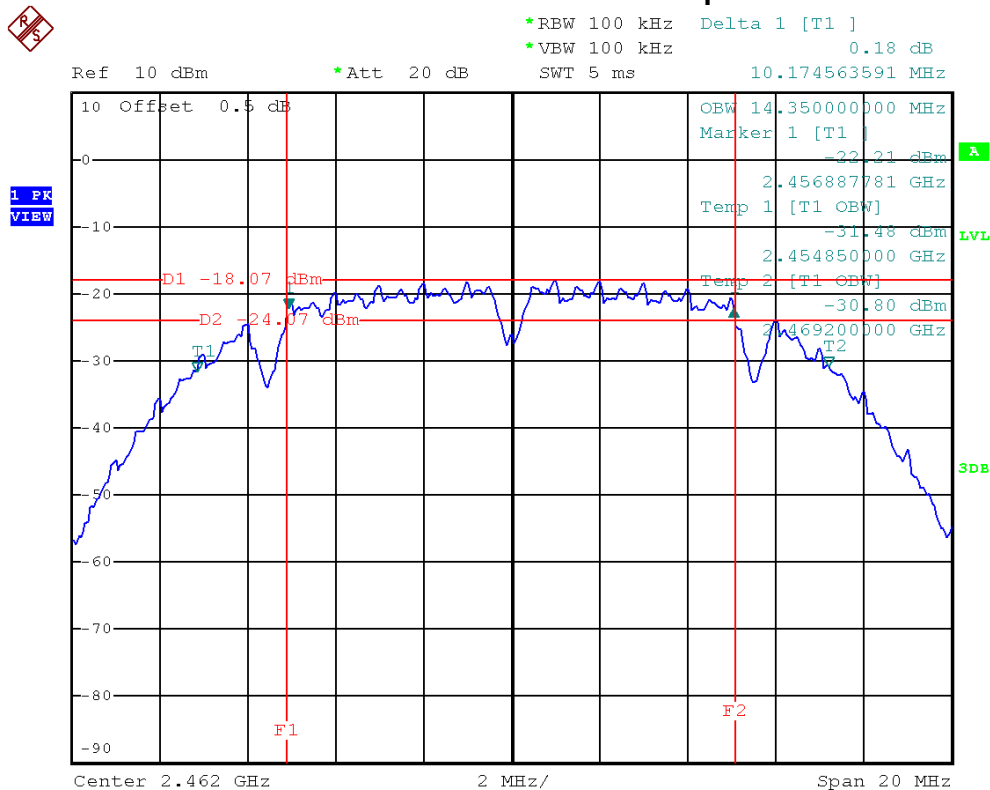




IEEE 802.11b/2437 MHz/6 dB and 99% Occupied Bandwidth



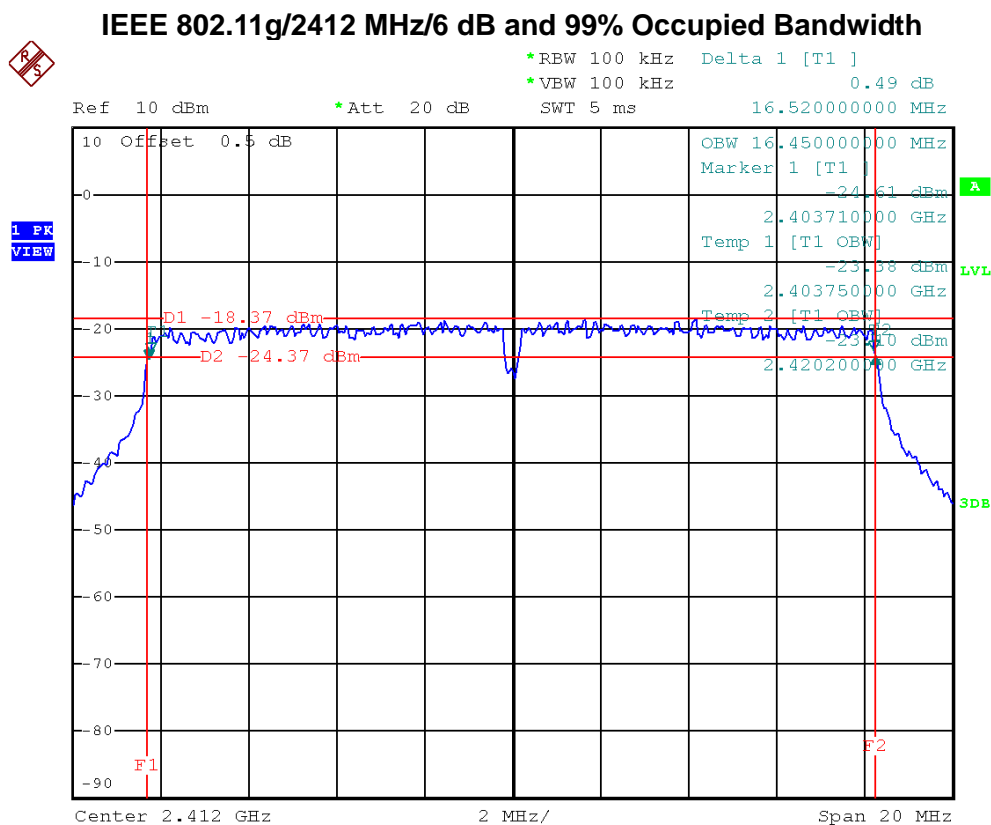
IEEE 802.11b/2462 MHz/6 dB and 99% Occupied Bandwidth





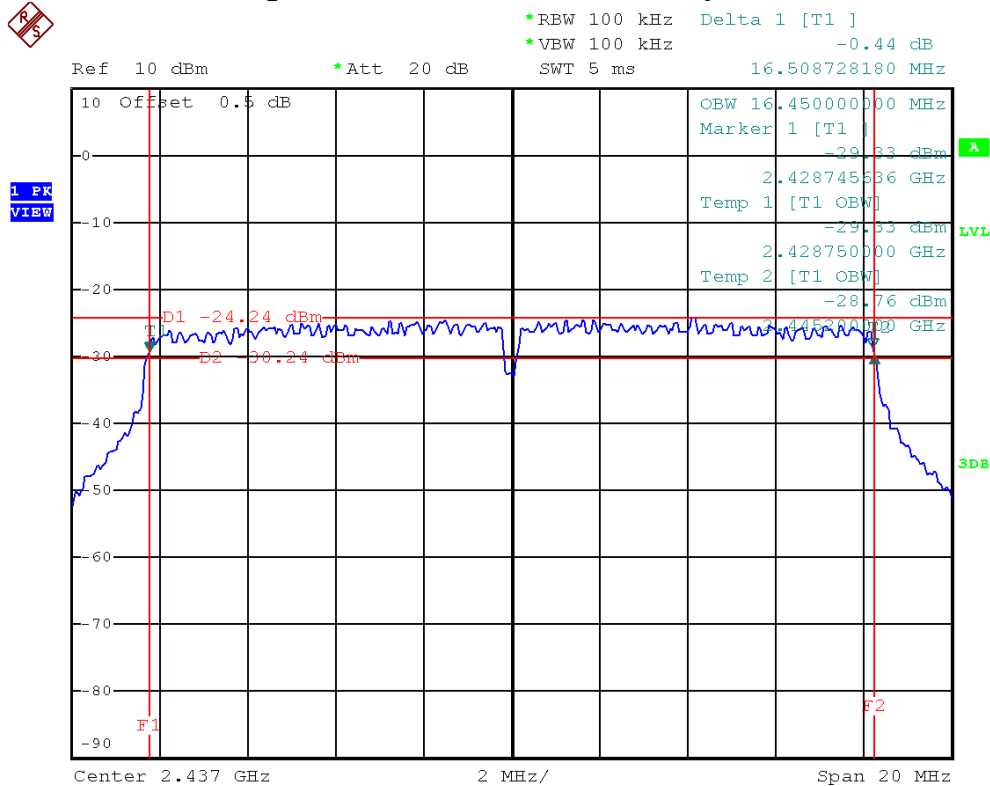
EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2412 MHz, 2437 MHz, 2462 MHz		

Frequency	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
2412 MHz	16.52	16.45	>=500 kHz	PASS
2437 MHz	16.51	16.45	>=500 kHz	PASS
2462 MHz	16.51	16.45	>=500 kHz	PASS

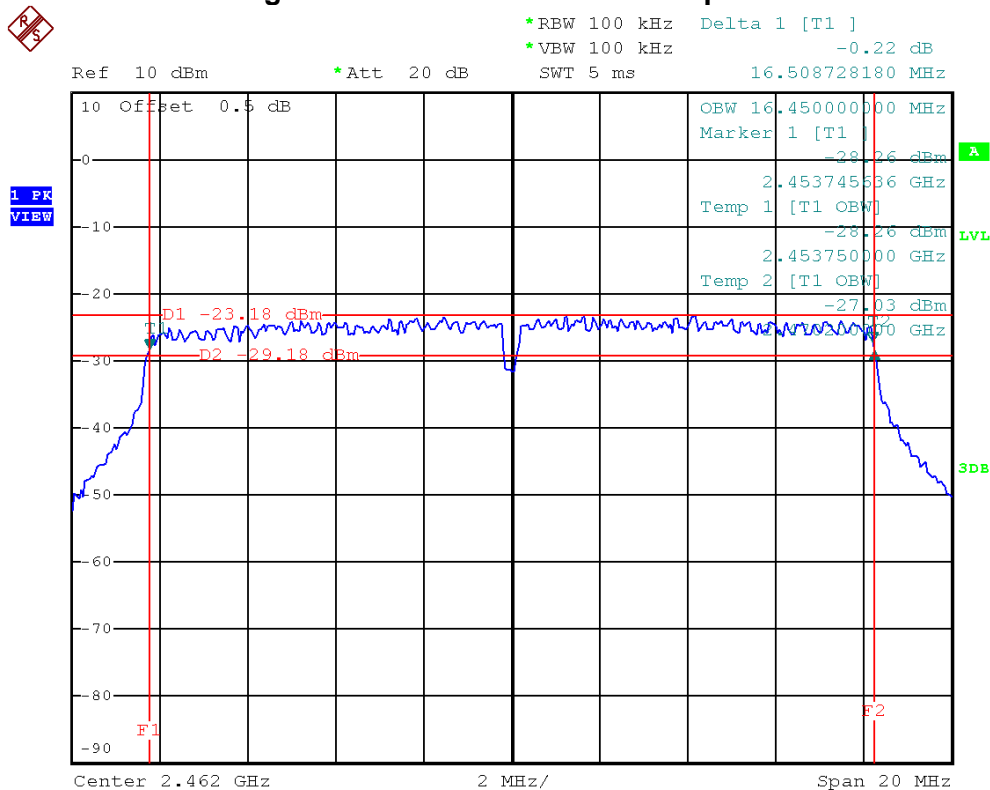




IEEE 802.11g/2437 MHz/6 dB and 99% Occupied Bandwidth



IEEE 802.11g/2462 MHz/6 dB and 99% Occupied Bandwidth

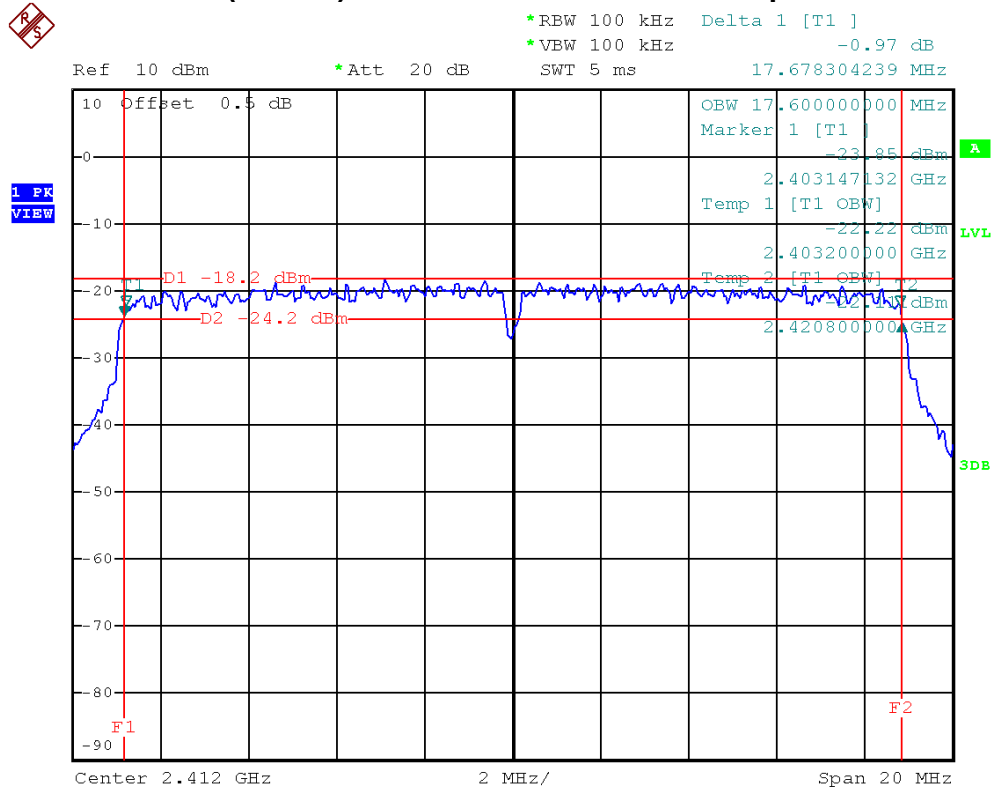




EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2412 MHz, 2437 MHz, 2462 MHz		

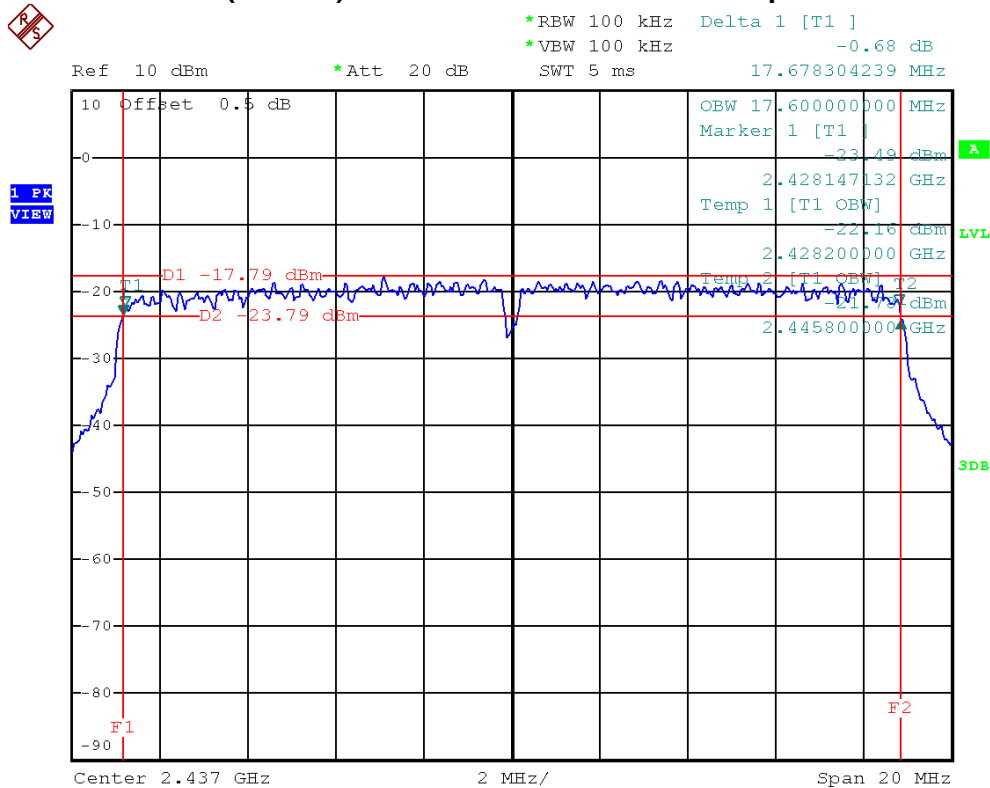
Frequency	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
2412 MHz	17.68	17.60	>=500 kHz	PASS
2437 MHz	17.68	17.60	>=500 kHz	PASS
2462 MHz	17.56	17.60	>=500 kHz	PASS

IEEE 802.11n (20 MHz)/2412 MHz/6 dB and 99% Occupied Bandwidth

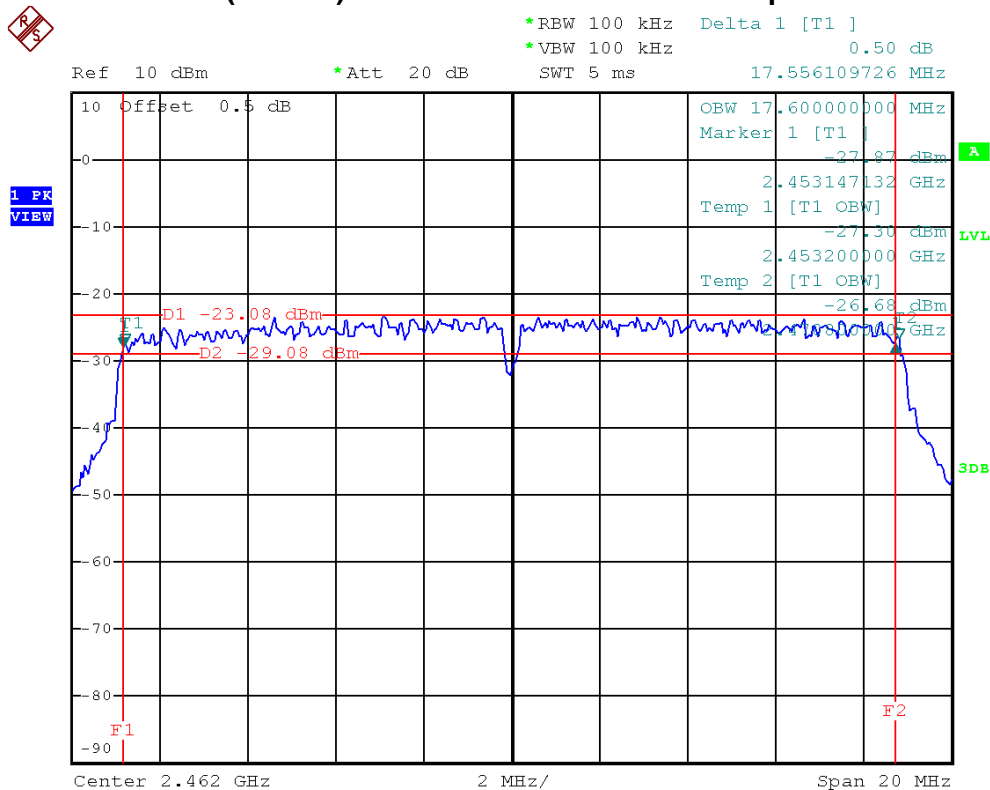




IEEE 802.11n (20 MHz)/2437 MHz/6 dB and 99% Occupied Bandwidth



IEEE 802.11n (20 MHz)/2462 MHz/6 dB and 99% Occupied Bandwidth

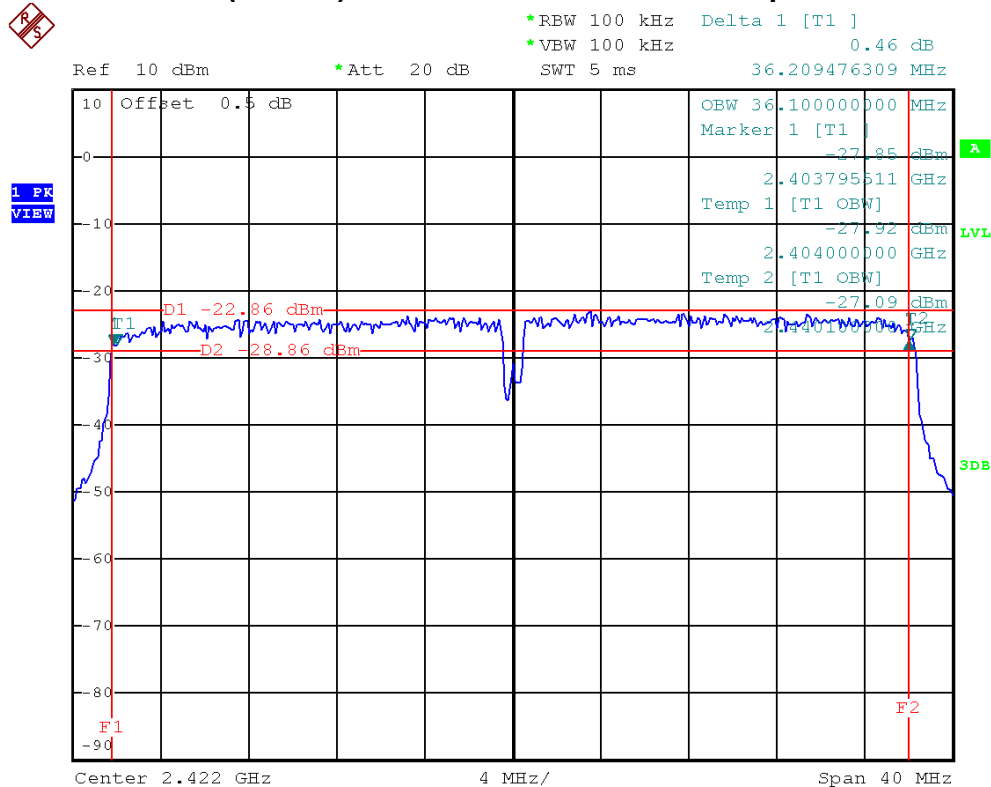




EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2422 MHz, 2437 MHz, 2452 MHz		

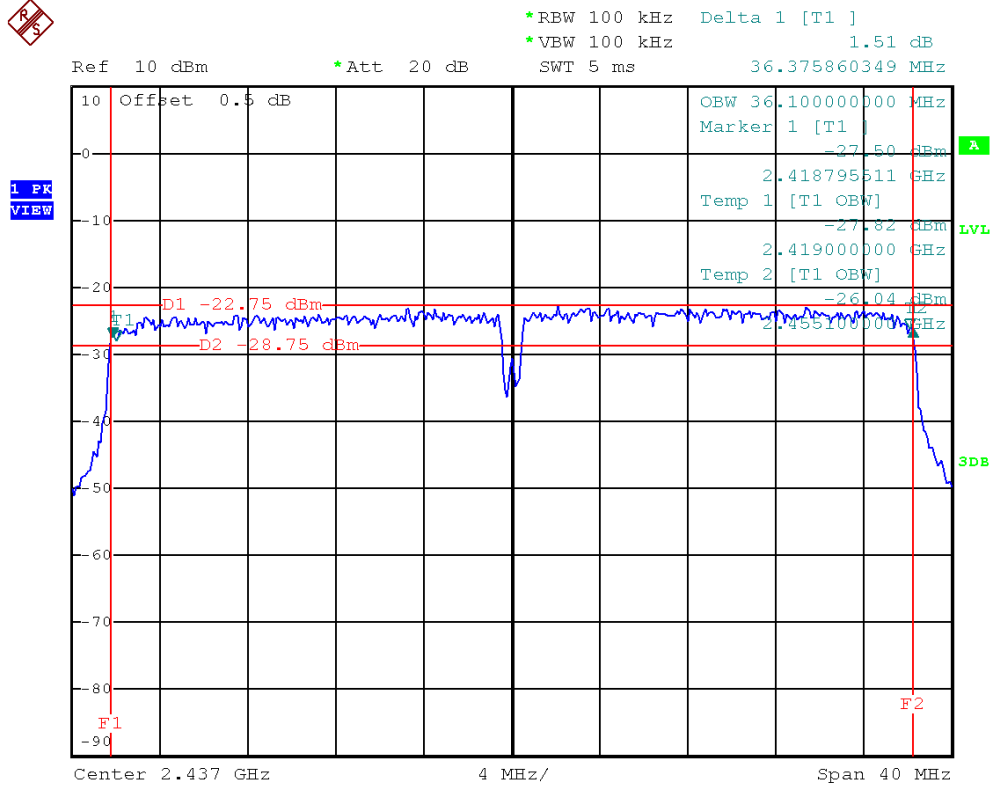
Frequency	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
2422 MHz	32.21	36.10	>=500 kHz	PASS
2437 MHz	36.38	36.10	>=500 kHz	PASS
2452 MHz	36.40	36.10	>=500 kHz	PASS

IEEE 802.11n (40 MHz)/2422 MHz/6 dB and 99% Occupied Bandwidth

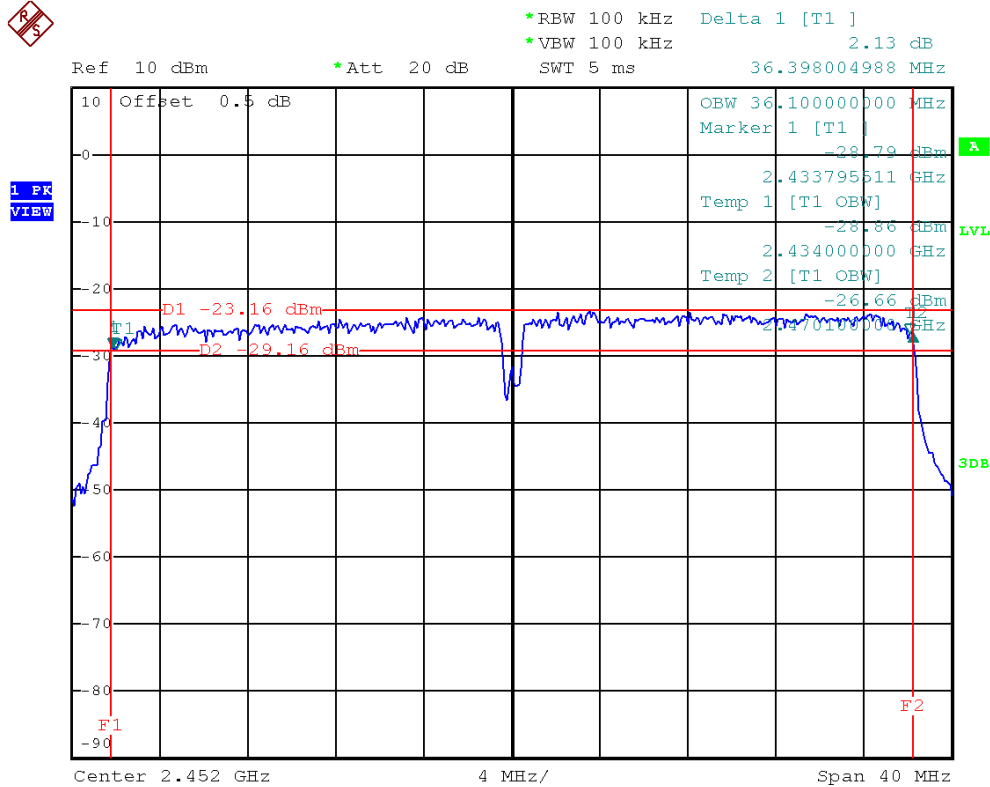




IEEE 802.11n (40 MHz)/2437 MHz/6 dB and 99% Occupied Bandwidth



IEEE 802.11n (40 MHz)/2452 MHz/6 dB and 99% Occupied Bandwidth



**6 MAXIMUM PEAK CONDUCTED OUTPUT POWER****6.1 LIMIT**

Test Item	Frequency Range (MHz)	Limit
Maximum Peak Conducted Output Power	2400-2483.5	1 watt or 30 dBm

6.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

6.3 TEST PROCEDURES

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: RBW= 3 MHz, VBW= 3 MHz, Sweep time = Auto.

6.4 TEST SETUP LAYOUT**6.5 DEVIATION FROM TEST STANDARD**

No deviation

6.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

**6.7 TEST RESULTS**

EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2412 MHz, 2437 MHz, 2462 MHz		

Frequency	Peak Output Power (dBm)	LIMIT (dBm)	Result
2412 MHz	0.55	30	PASS
2437 MHz	0.68	30	PASS
2462 MHz	0.42	30	PASS

**Neutron Engineering Inc.**

EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2412 MHz, 2437 MHz, 2462 MHz		

Frequency	Peak Output Power (dBm)	LIMIT (dBm)	Result
2412 MHz	13.66	30	PASS
2437 MHz	5.99	30	PASS
2462 MHz	5.85	30	PASS



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2412 MHz, 2437 MHz, 2462 MHz		

Frequency	Peak Output Power (dBm)	LIMIT (dBm)	Result
2412 MHz	13.30	30	PASS
2437 MHz	12.48	30	PASS
2462 MHz	4.39	30	PASS



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2422 MHz, 2437 MHz, 2452 MHz		

Frequency	Peak Output Power (dBm)	LIMIT (dBm)	Result
2422 MHz	9.60	30	PASS
2437 MHz	10.92	30	PASS
2452 MHz	2.48	30	PASS



7 RADIATED SPURIOUS EMISSION (9 KHZ TO 1 GHZ)

7.1 LIMIT

20 dB 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.

Frequency Range: 9 kHz to 1 GHz		
FREQUENCY (MHz)	Field Strength (micровolts/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

Frequency Range: above 1 GHz				
FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
above 1 GHz	80	60	74	54

NOTE:

1. The limit for radiated test was performed according to FCC PART 15B.
2. The tighter limit applies at the band edges.
3. Emission level (dBuV/m)=20log Emission level (uV/m).
4. The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain(if use)
 Margin Level = Measurement Value – Limit Value



7.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 15, 2014
3	Microwave Pre-amplifier	Agilent	8449B	3008A01714	Apr. 16, 2014
4	Microflex Cable	Harbour industries	27478LL142	1m	May. 13, 2014
5	Microflex Cable	EMC	S104-SMA	8m	May. 13, 2014
6	Microflex Cable	Harbour industries	27478LL142	3m	May. 13, 2014
7	Test Cable	LMR	LMR-400	12m	May. 14, 2014
8	Test Cable	LMR	LMR-400	3m	May. 14, 2014
9	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 18, 2014
10	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jun. 11, 2014
11	Preamplifier With Adaptor	EMC	EMC2654045	980030	Feb. 18, 2014
12	Horn Antenna	Schwarzbeck	BBHA 9170	187	Dec. 24, 2013

Remark: "N/A" denotes No Model Name, No Serial No. or No Calibration specified.

7.3 MEASURING INSTRUMENTS SETTING

EMI Test 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



7.4 TEST PROCEDURES

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1 GHz. For frequencies above 1 GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m Semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- 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.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.
- The testing follows the guidelines in ANSI C63.4 and FCC Public Notice DA 00-705 Measurement Guidelines. In case the emission is fail due to the used RBW/VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

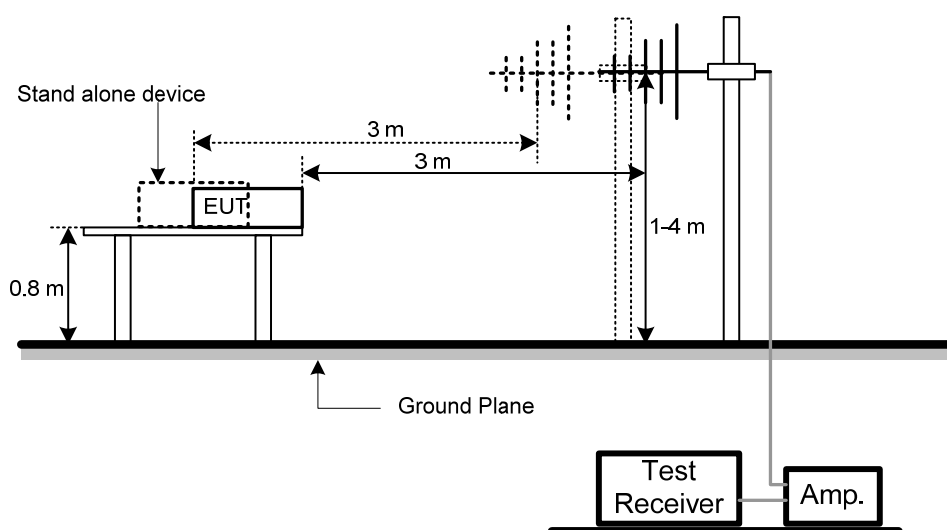
NOTE:

- Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode with Detector BW=120 kHz; SPA setting in RBW=100 kHz, VBW =100 kHz, Swp. Time = 0.3 sec./ MHz.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.

7.5 DEVIATION FROM TEST STANDARD

No deviation

7.6 TEST SETUP LAYOUT





7.7 EUT OPERATING CONDITIONS

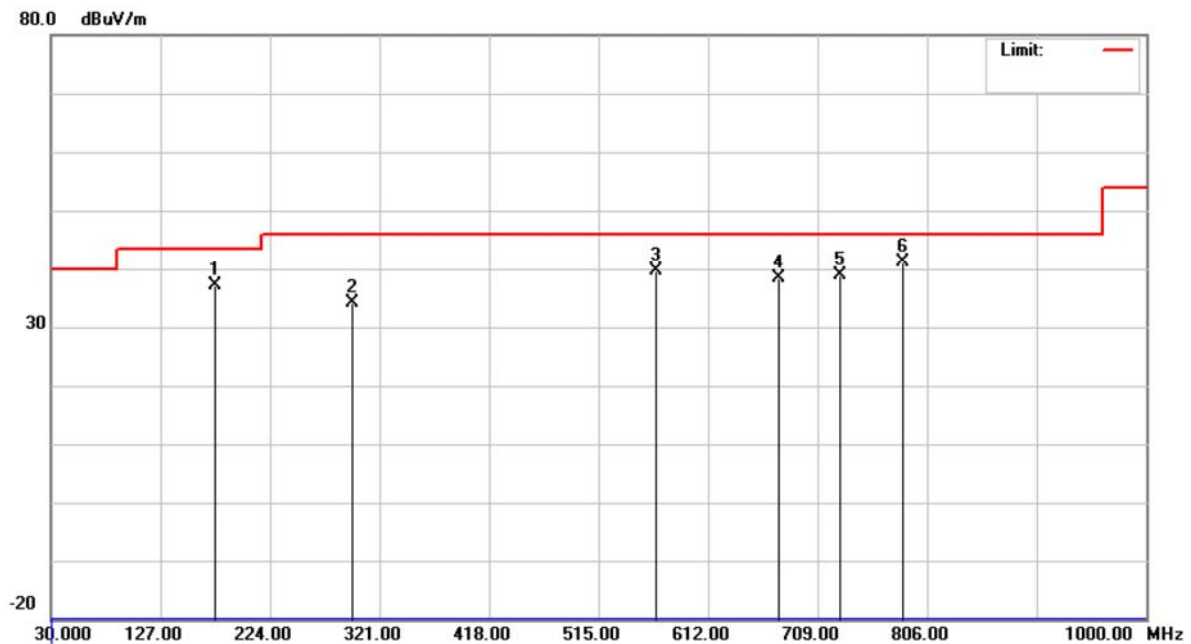
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.



7.8 TEST RESULTS

EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2437 MHz		

Polarization: Vertical

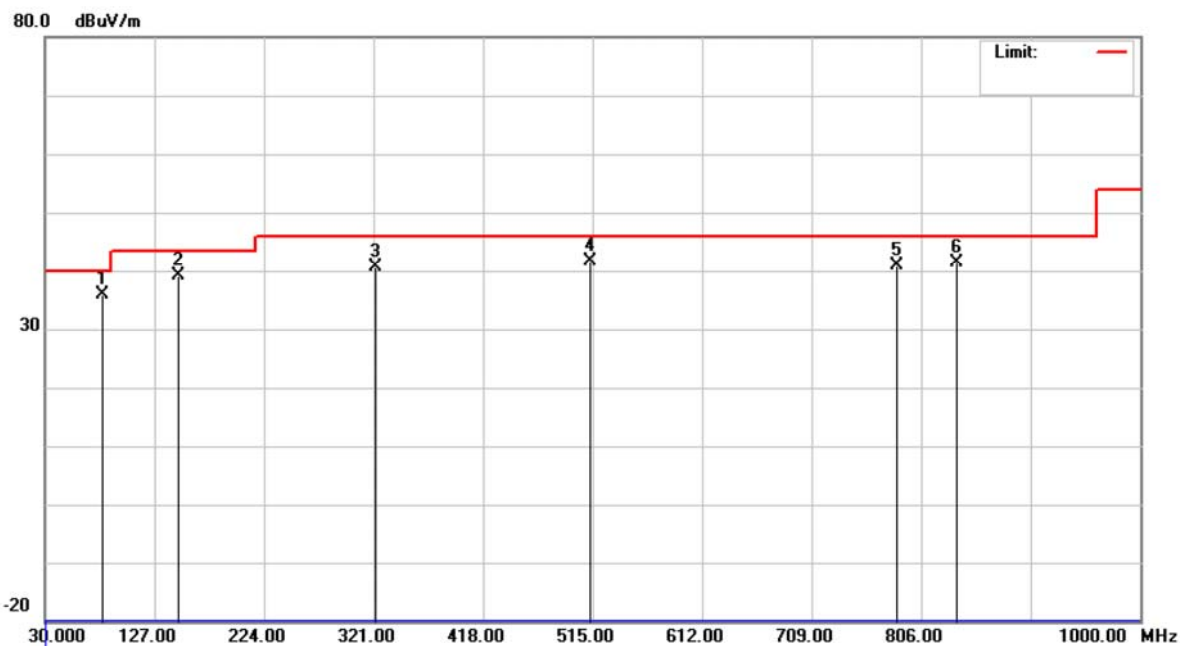


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		175.5000	52.35	-15.27	37.08	43.50	-6.42	peak	
2		296.7500	48.09	-14.03	34.06	46.00	-11.94	peak	
3		565.9249	47.28	-7.76	39.52	46.00	-6.48	peak	
4		675.0499	45.14	-6.68	38.46	46.00	-7.54	peak	
5		728.4000	44.69	-5.83	38.86	46.00	-7.14	peak	
6	*	784.1749	46.11	-5.00	41.11	46.00	-4.89	peak	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2437 MHz		

Polarization: Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	80.9250	54.67	-18.84	35.83	40.00	-4.17	peak	
2		148.8249	53.41	-14.17	39.24	43.50	-4.26	peak	
3		323.4249	53.55	-13.02	40.53	46.00	-5.47	peak	
4		512.5750	50.91	-9.17	41.74	46.00	-4.26	peak	
5		784.1749	45.87	-5.00	40.87	46.00	-5.13	peak	
6		837.5250	45.65	-4.23	41.42	46.00	-4.58	peak	



8 RADIATED SPURIOUS EMISSION (ABOVE 1 GHZ)

8.1 LIMIT

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.

Frequency Range: 9 kHz to 1 GHz		
FREQUENCY (MHz)	Field Strength (micровolts/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

Frequency Range: above 1 GHz				
FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
above 1 GHz	80	60	74	54

NOTE:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain(if use)
 Margin Level = Measurement Value – Limit Value



8.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 15, 2014
3	Microwave Pre-amplifier	Agilent	8449B	3008A01714	Apr. 16, 2014
4	Microflex Cable	Harbour industries	27478LL142	1m	May. 13, 2014
5	Microflex Cable	EMC	S104-SMA	8m	May. 13, 2014
6	Microflex Cable	Harbour industries	27478LL142	3m	May. 13, 2014
7	Test Cable	LMR	LMR-400	12m	May. 14, 2014
8	Test Cable	LMR	LMR-400	3m	May. 14, 2014
9	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 18, 2014
10	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jun. 11, 2014
11	Preamplifier With Adaptor	EMC	EMC2654045	980030	Feb. 18, 2014
12	Horn Antenna	Schwarzbeck	BBHA 9170	187	Dec. 24, 2013

Remark: "N/A" denotes No Model Name, No Serial No. or No Calibration specified.

8.3 MEASURING INSTRUMENTS SETTING

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

8.4 TEST PROCEDURES

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m Semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- 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.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.
- The testing follows the guidelines in ANSI C63.4 and FCC Public Notice DA 00-705 Measurement Guidelines. In case the emission is fail due to the used RBW/VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

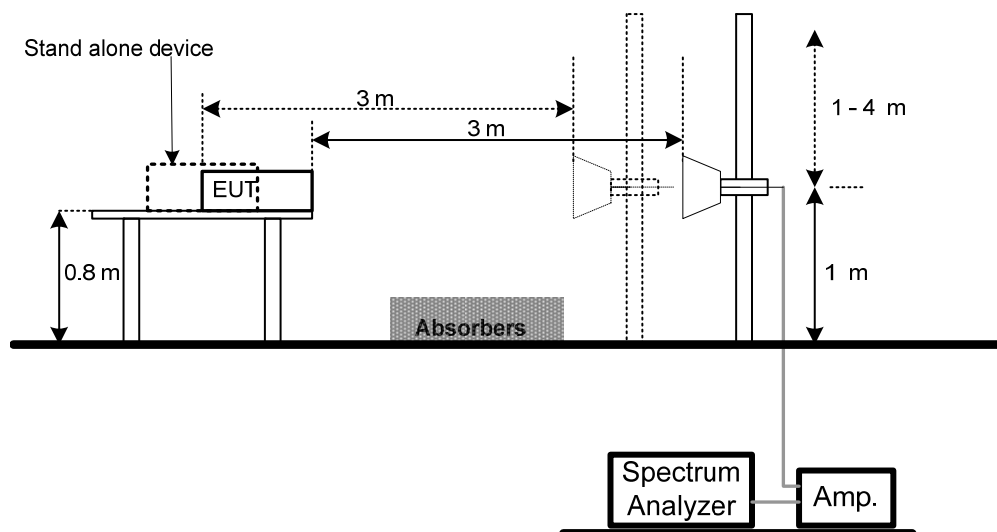
NOTE:

- Reading in which marked as Peak means measurements by using are Peak Mode with instrument setting in RBW= 1 MHz, VBW= 1 MHz, Swp. Time = Auto.
Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW= 1 MHz, VBW= 10 Hz, Swp. Time = Auto.
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform.

8.5 DEVIATION FROM TEST STANDARD

No deviation

8.6 TEST SETUP LAYOUT





8.7 EUT OPERATING CONDITIONS

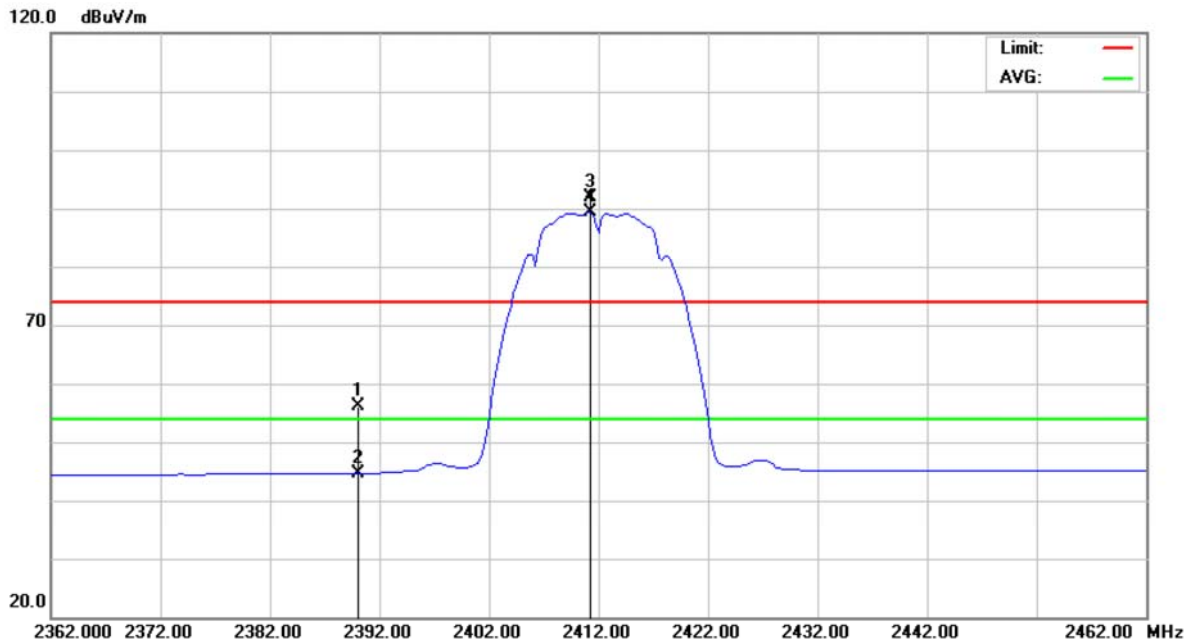
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.



8.8 TEST RESULTS

EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2412 MHz		

Polarization: Vertical

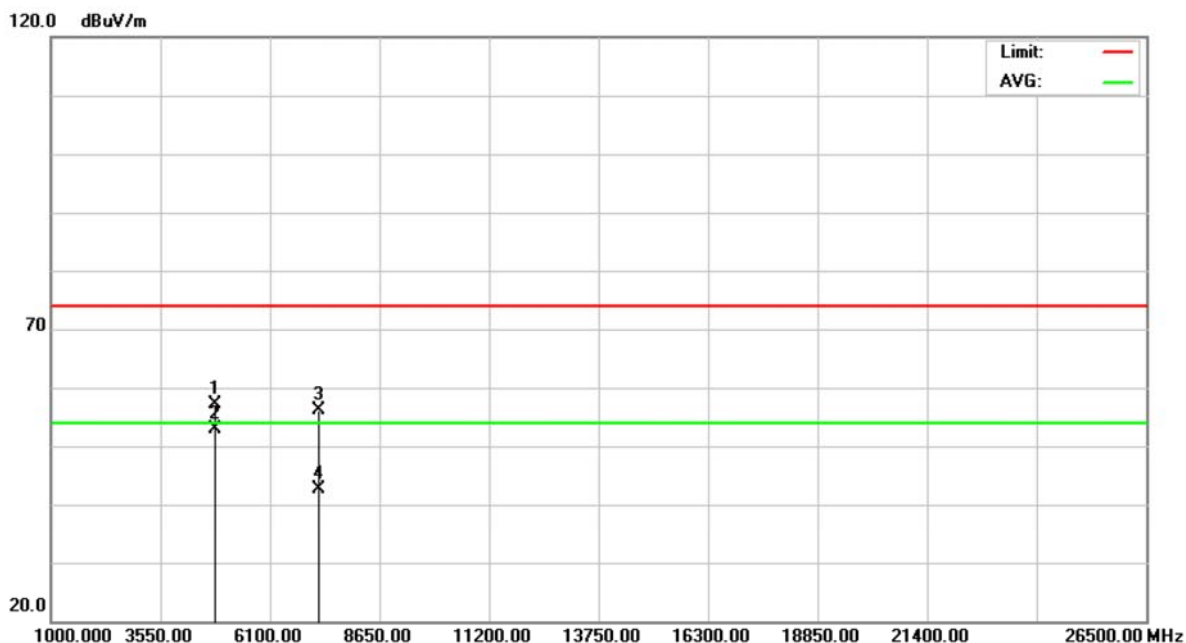


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	24.57	31.67	56.24	74.00	-17.76	peak	
2		2390.000	13.01	31.67	44.68	54.00	-9.32	AVG	
3	X	2411.250	60.24	31.76	92.00	74.00	18.00	peak	
4	*	2411.250	57.55	31.76	89.31	54.00	35.31	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2412 MHz		

Polarization: Vertical

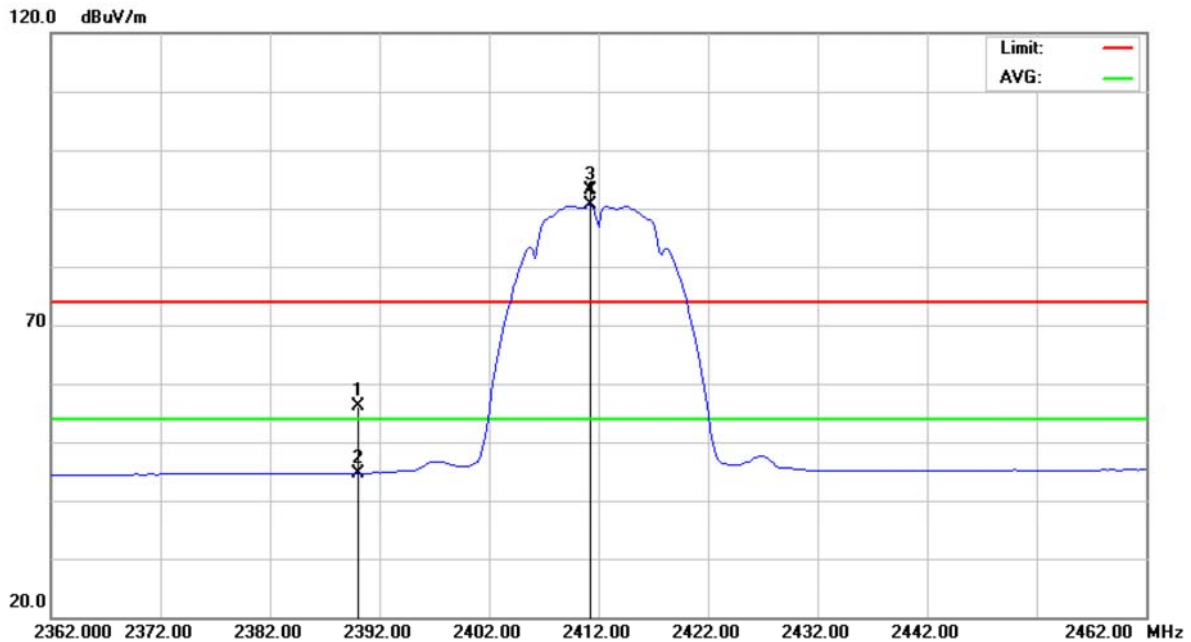


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4823.945	51.42	5.71	57.13	74.00	-16.87	peak	
2	*	4823.945	47.15	5.71	52.86	54.00	-1.14	AVG	
3		7235.985	43.93	12.29	56.22	74.00	-17.78	peak	
4		7235.985	30.29	12.29	42.58	54.00	-11.42	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2412 MHz		

Polarization: Horizontal

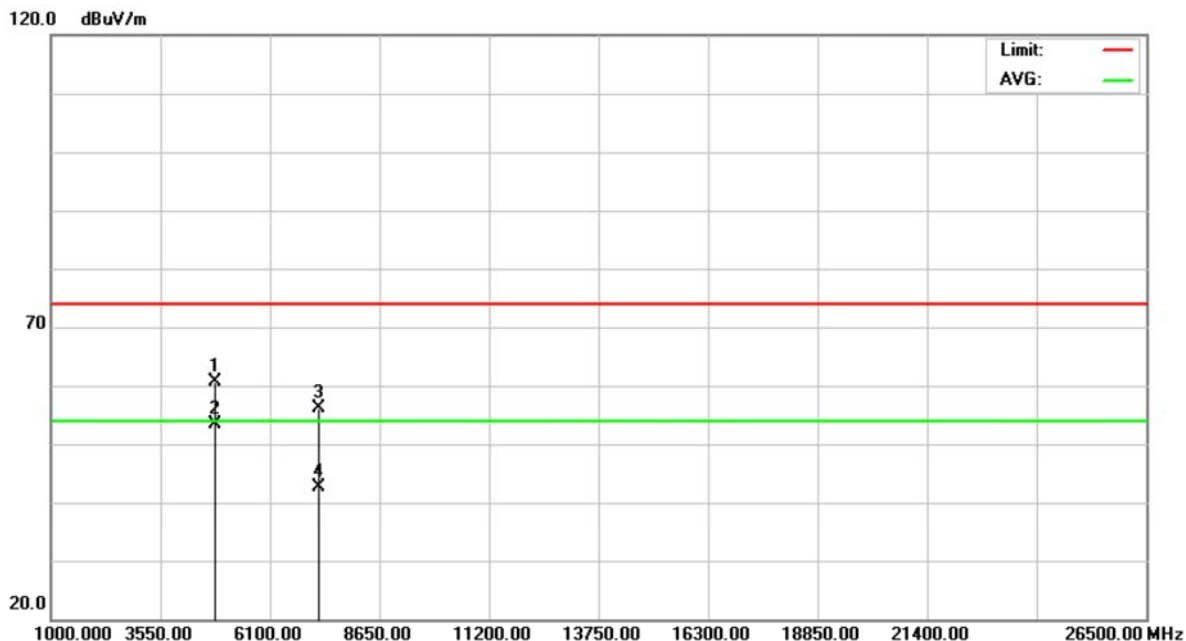


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	24.54	31.67	56.21	74.00	-17.79	peak	
2		2390.000	13.07	31.67	44.74	54.00	-9.26	AVG	
3	X	2411.250	61.37	31.76	93.13	74.00	19.13	peak	
4	*	2411.250	58.77	31.76	90.53	54.00	36.53	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2412 MHz		

Polarization: Horizontal

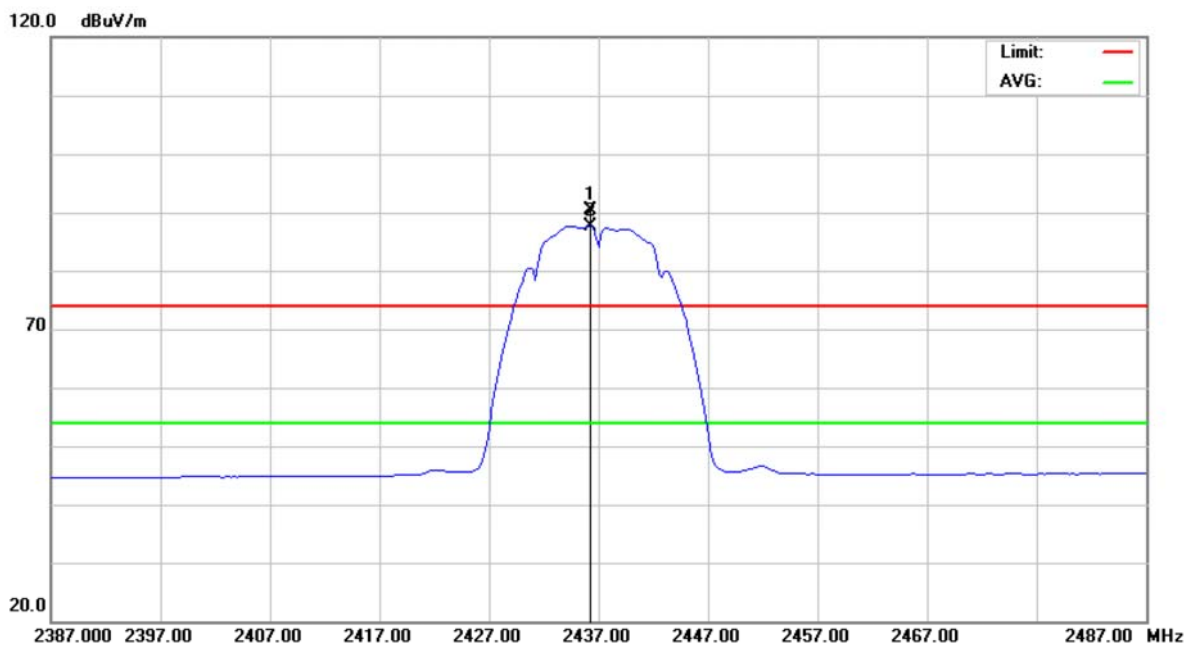


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4823.950	54.86	5.71	60.57	74.00	-13.43	peak	
2	*	4823.950	47.64	5.71	53.35	54.00	-0.65	AVG	
3		7235.975	43.72	12.29	56.01	74.00	-17.99	peak	
4		7235.975	30.22	12.29	42.51	54.00	-11.49	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2437 MHz		

Polarization: Vertical

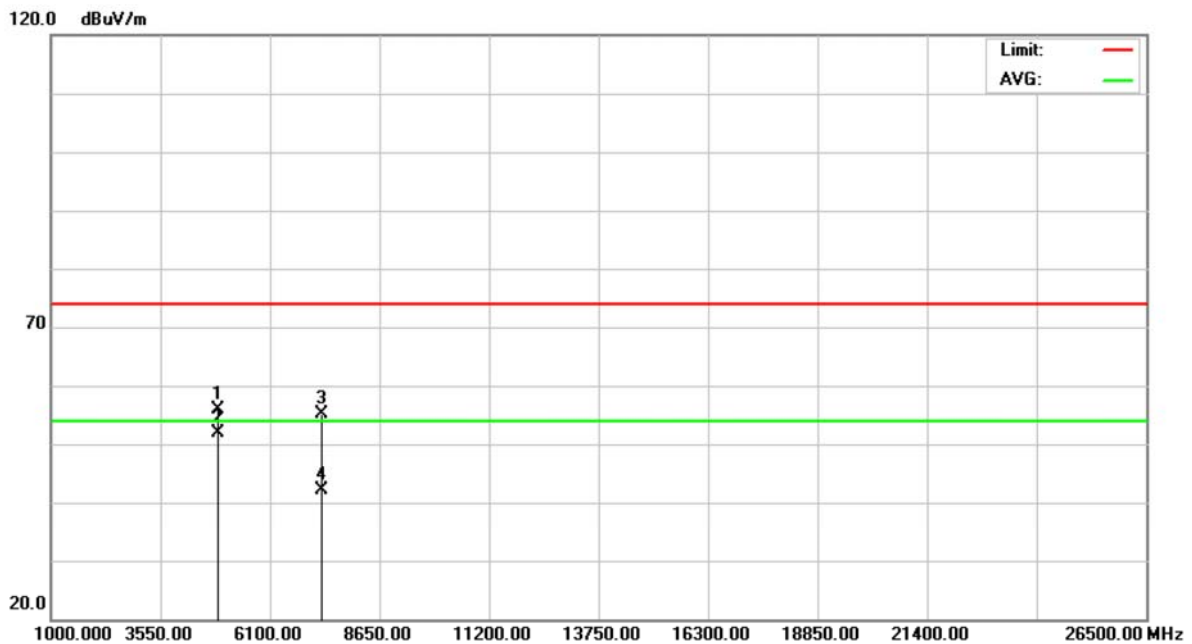


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2436.250	58.57	31.87	90.44	74.00	16.44	peak	
2	*	2436.250	55.84	31.87	87.71	54.00	33.71	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2437 MHz		

Polarization: Vertical

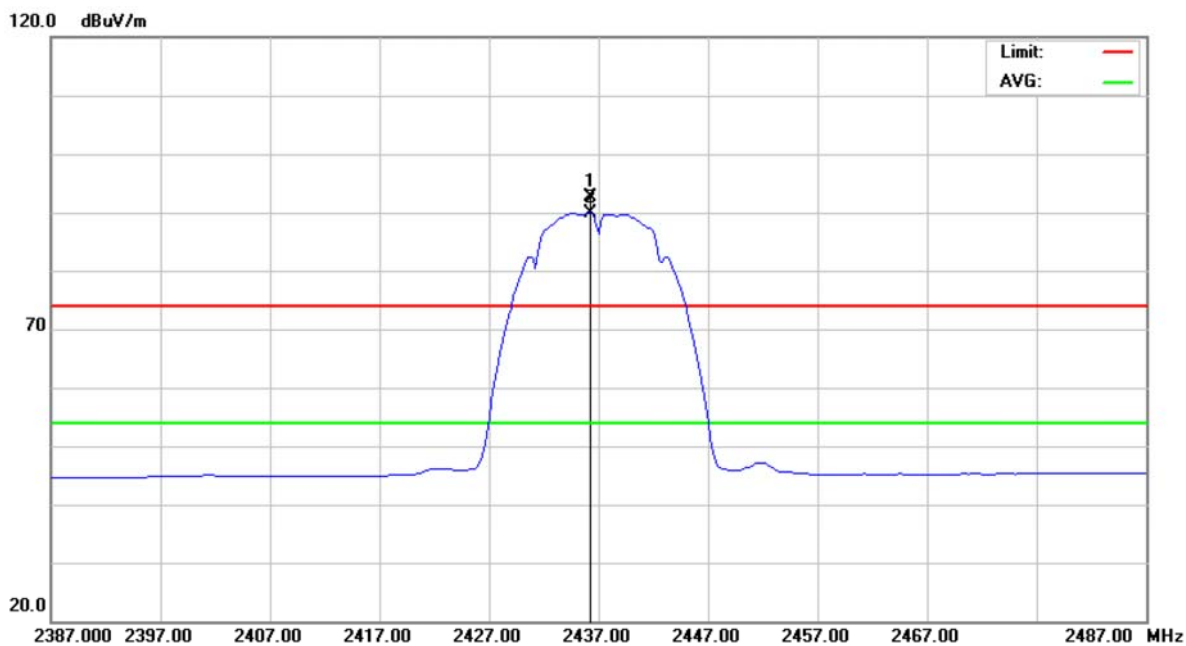


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4873.945	50.18	5.78	55.96	74.00	-18.04	peak	
2	*	4873.945	46.02	5.78	51.80	54.00	-2.20	AVG	
3		7310.705	42.51	12.57	55.08	74.00	-18.92	peak	
4		7310.705	29.57	12.57	42.14	54.00	-11.86	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2437 MHz		

Polarization: Horizontal

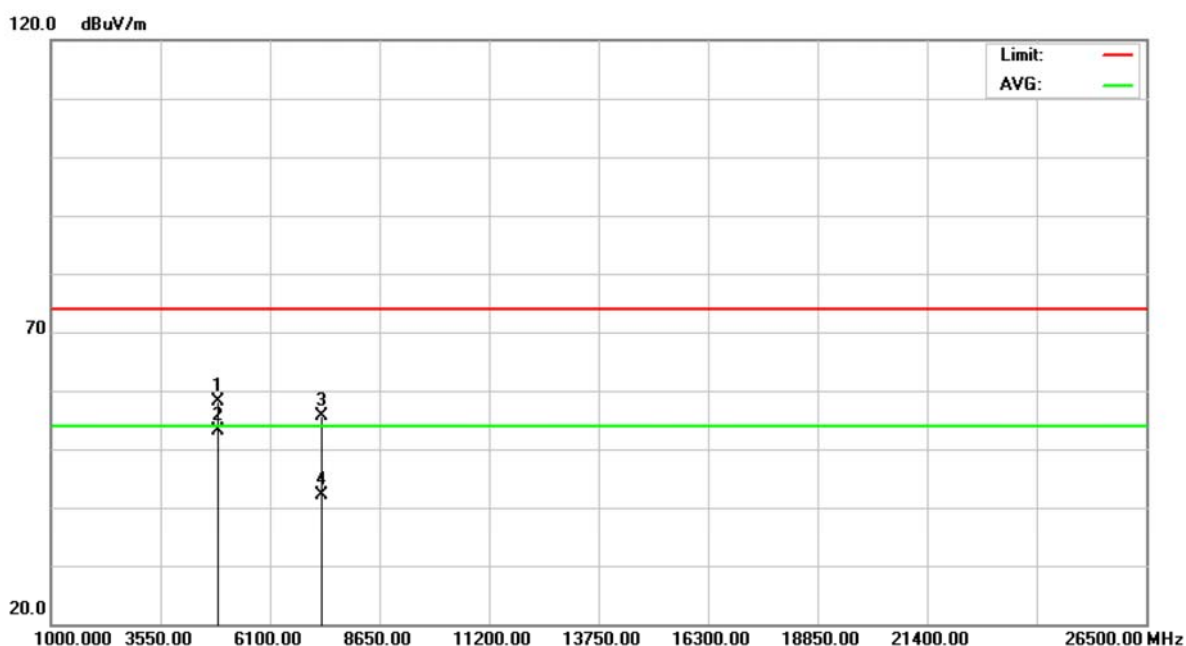


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2436.250	60.83	31.87	92.70	74.00	18.70	peak	
2	*	2436.250	58.12	31.87	89.99	54.00	35.99	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2437 MHz		

Polarization: Horizontal

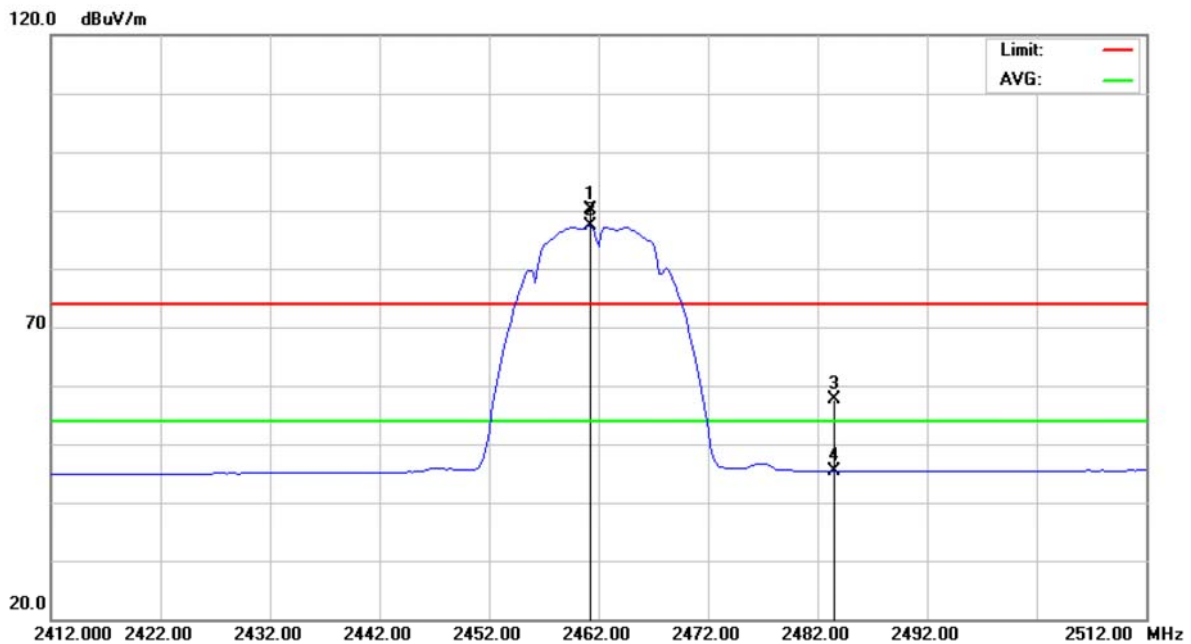


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4873.945	52.41	5.78	58.19	74.00	-15.81	peak	
2	*	4873.945	47.25	5.78	53.03	54.00	-0.97	AVG	
3		7310.685	42.95	12.57	55.52	74.00	-18.48	peak	
4		7310.685	29.52	12.57	42.09	54.00	-11.91	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2462 MHz		

Polarization: Vertical

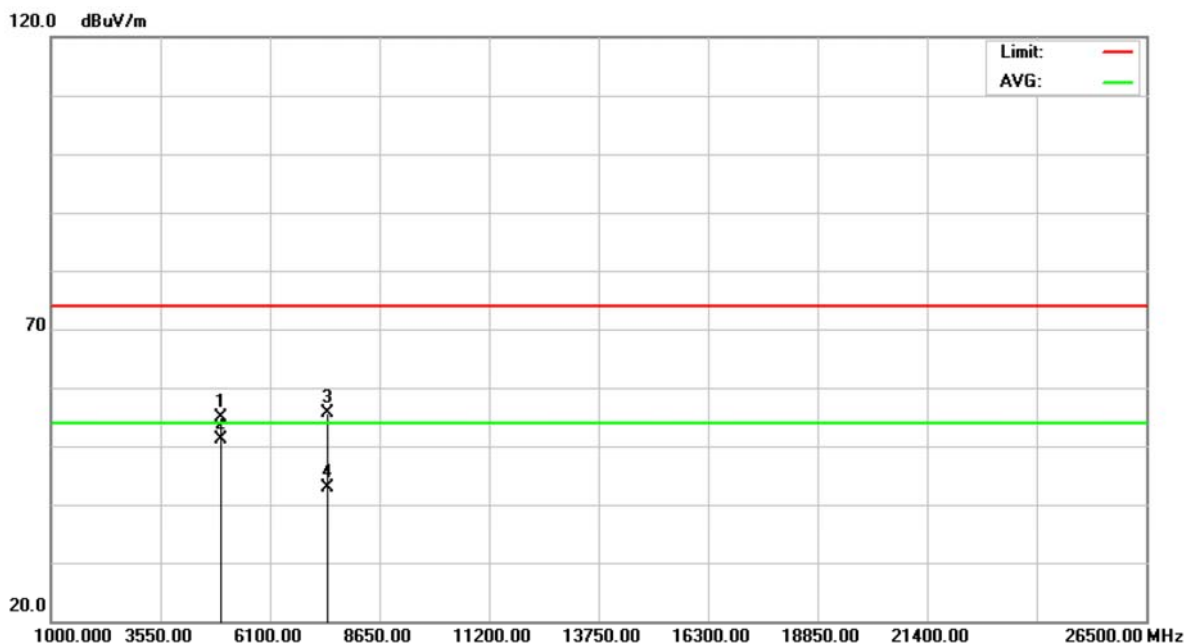


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2461.250	58.13	31.99	90.12	74.00	16.12	peak	
2	*	2461.250	55.40	31.99	87.39	54.00	33.39	AVG	
3		2483.500	25.50	32.09	57.59	74.00	-16.41	peak	
4		2483.500	13.20	32.09	45.29	54.00	-8.71	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2462 MHz		

Polarization: Vertical

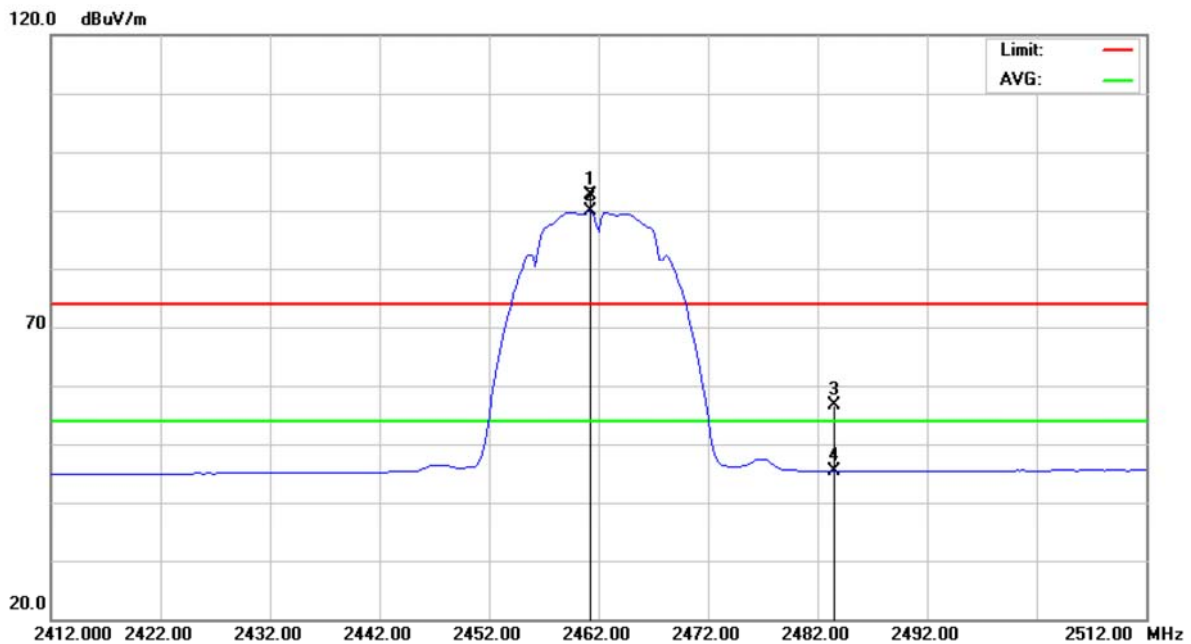


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4923.940	49.12	5.84	54.96	74.00	-19.04	peak	
2	*	4923.940	45.31	5.84	51.15	54.00	-2.85	AVG	
3		7385.995	42.84	12.85	55.69	74.00	-18.31	peak	
4		7385.995	29.97	12.85	42.82	54.00	-11.18	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2462 MHz		

Polarization: Horizontal

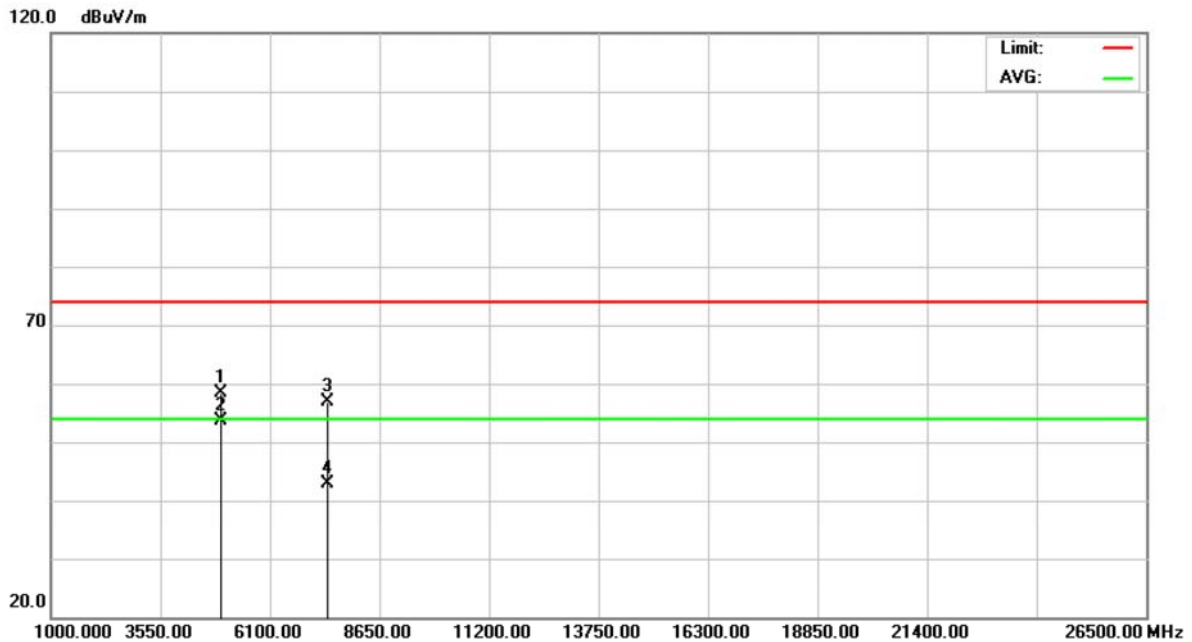


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2461.250	60.65	31.99	92.64	74.00	18.64	peak	
2	*	2461.250	57.92	31.99	89.91	54.00	35.91	AVG	
3		2483.500	24.42	32.09	56.51	74.00	-17.49	peak	
4		2483.500	13.26	32.09	45.35	54.00	-8.65	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2462 MHz		

Polarization: Horizontal

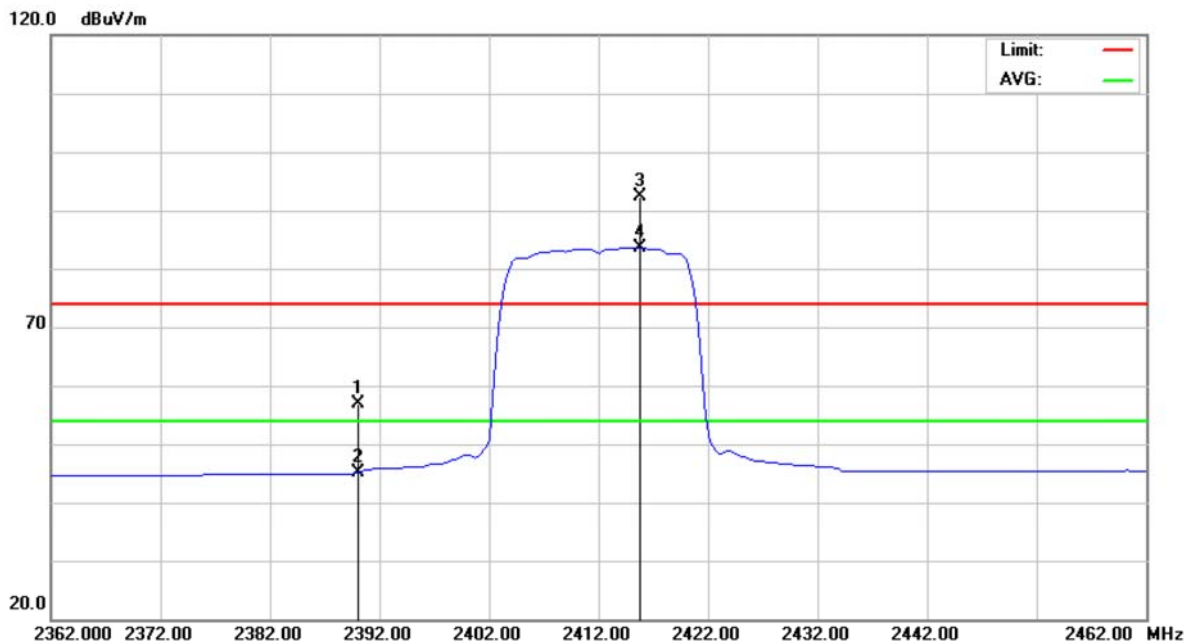


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4923.955	52.47	5.84	58.31	74.00	-15.69	peak	
2	*	4923.955	47.73	5.84	53.57	54.00	-0.43	AVG	
3		7385.895	44.00	12.85	56.85	74.00	-17.15	peak	
4		7385.895	29.95	12.85	42.80	54.00	-11.20	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2412 MHz		

Polarization: Vertical

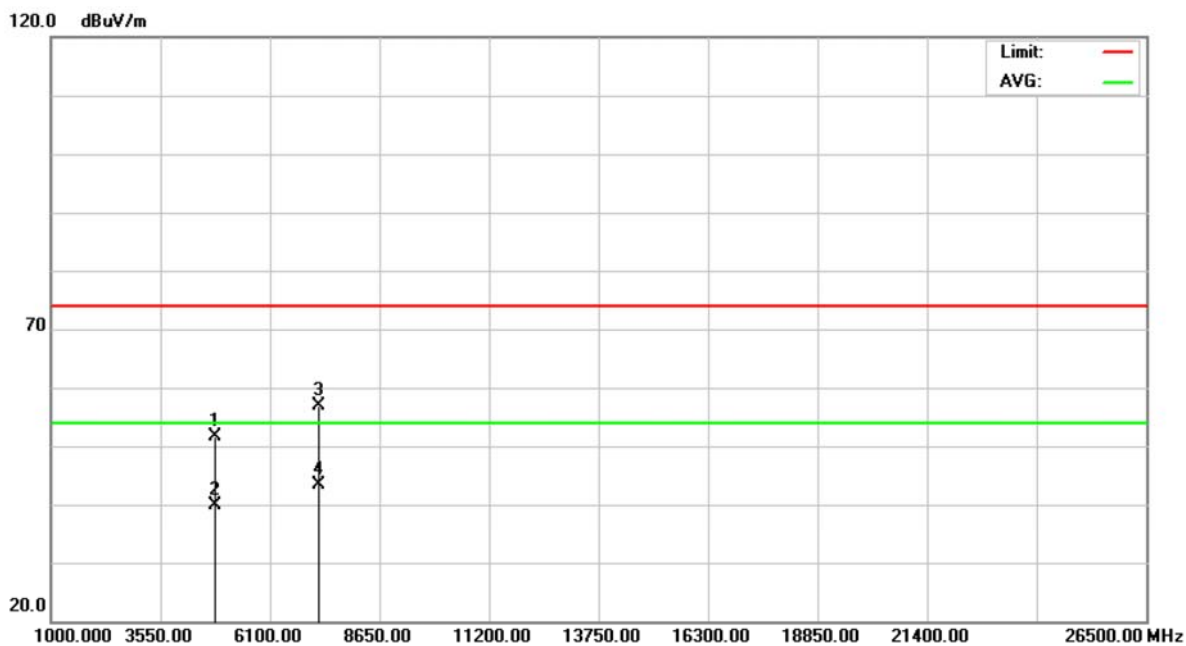


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	25.32	31.67	56.99	74.00	-17.01	peak	
2		2390.000	13.51	31.67	45.18	54.00	-8.82	AVG	
3	X	2415.750	60.63	31.78	92.41	74.00	18.41	peak	
4	*	2415.750	51.78	31.78	83.56	54.00	29.56	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2412 MHz		

Polarization: Vertical

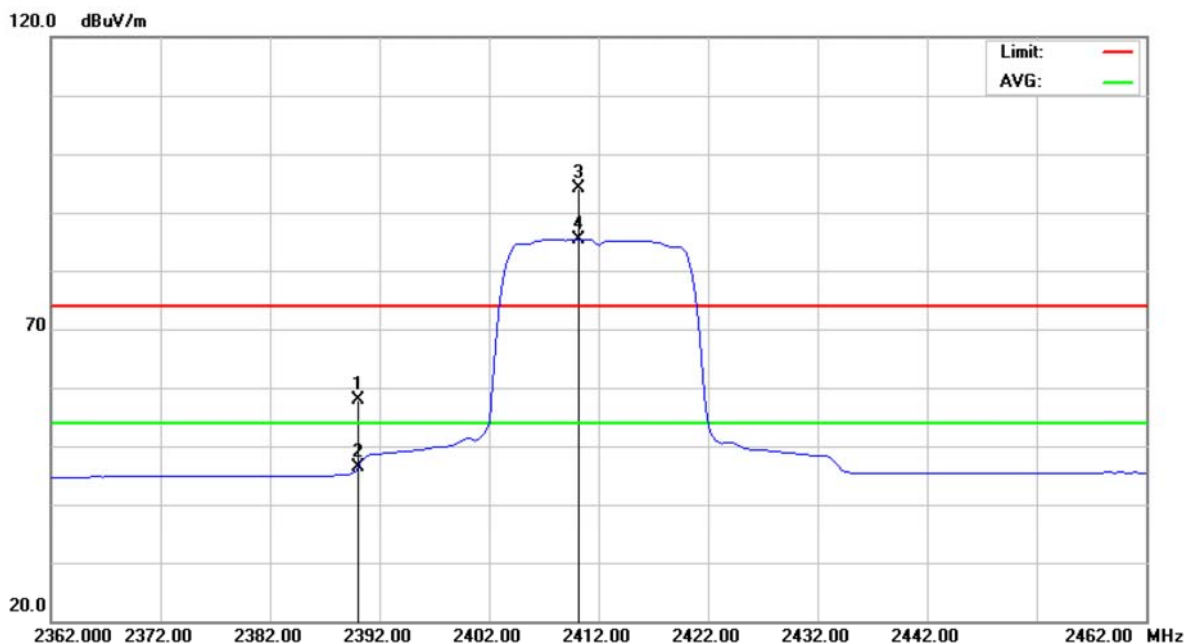


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.010	45.95	5.71	51.66	74.00	-22.34	peak	
2		4824.010	34.05	5.71	39.76	54.00	-14.24	AVG	
3		7236.375	44.63	12.29	56.92	74.00	-17.08	peak	
4	*	7236.375	31.00	12.29	43.29	54.00	-10.71	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2412 MHz		

Polarization: Horizontal

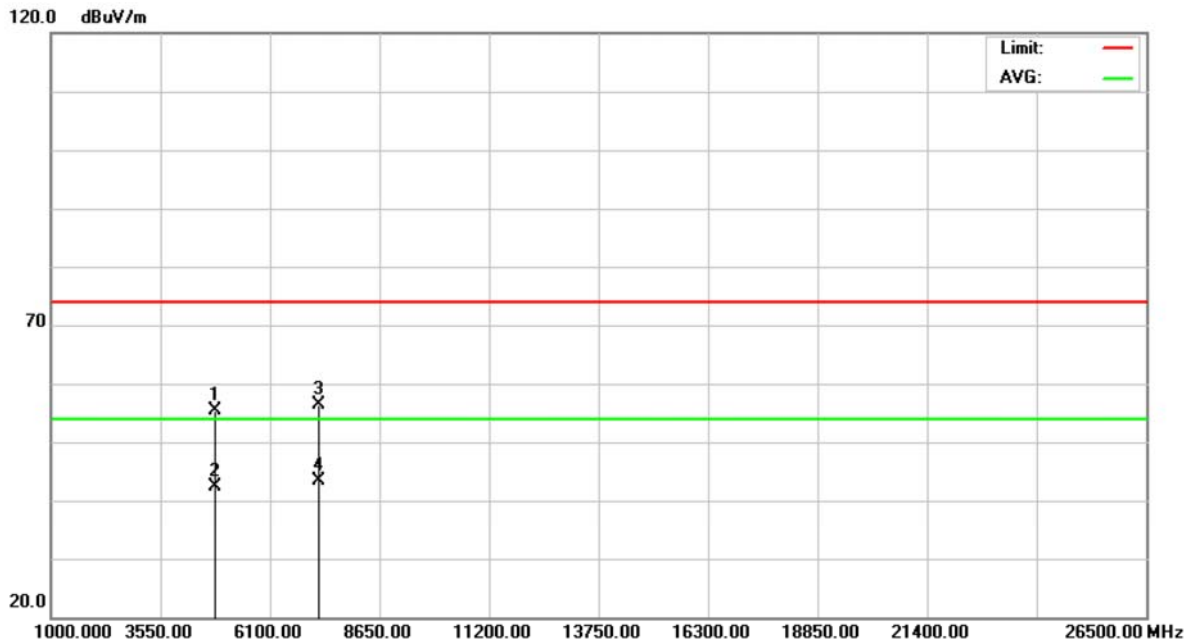


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	26.19	31.67	57.86	74.00	-16.14	peak	
2		2390.000	14.72	31.67	46.39	54.00	-7.61	AVG	
3	X	2410.250	62.41	31.76	94.17	74.00	20.17	peak	
4	*	2410.250	53.71	31.76	85.47	54.00	31.47	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2412 MHz		

Polarization: Horizontal

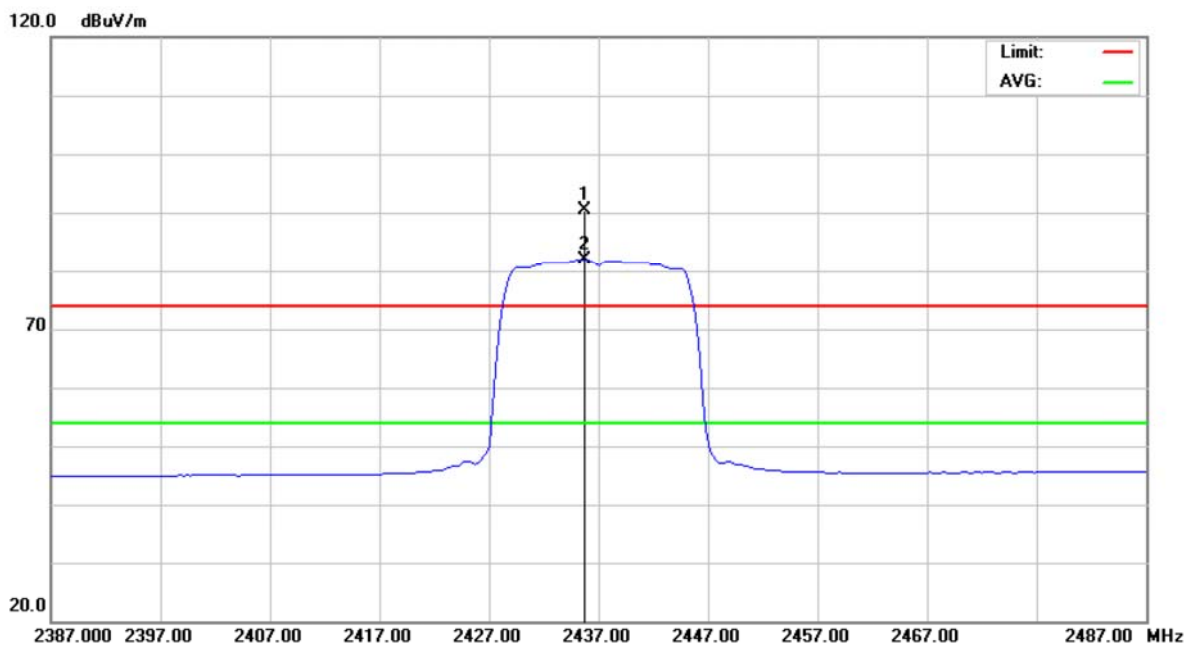


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4823.960	49.68	5.71	55.39	74.00	-18.61	peak	
2		4823.960	36.79	5.71	42.50	54.00	-11.50	AVG	
3		7235.865	44.17	12.29	56.46	74.00	-17.54	peak	
4	*	7235.865	30.97	12.29	43.26	54.00	-10.74	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2437 MHz		

Polarization: Vertical

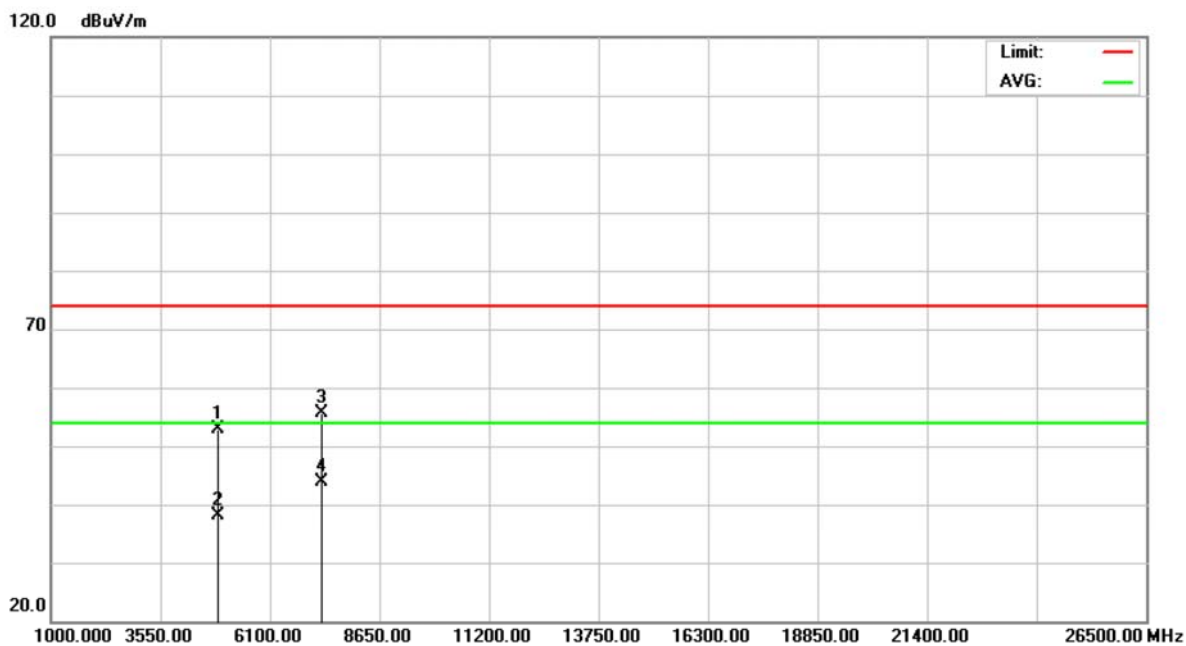


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2435.750	58.54	31.87	90.41	74.00	16.41	peak	
2	*	2435.750	49.94	31.87	81.81	54.00	27.81	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2437 MHz		

Polarization: Vertical

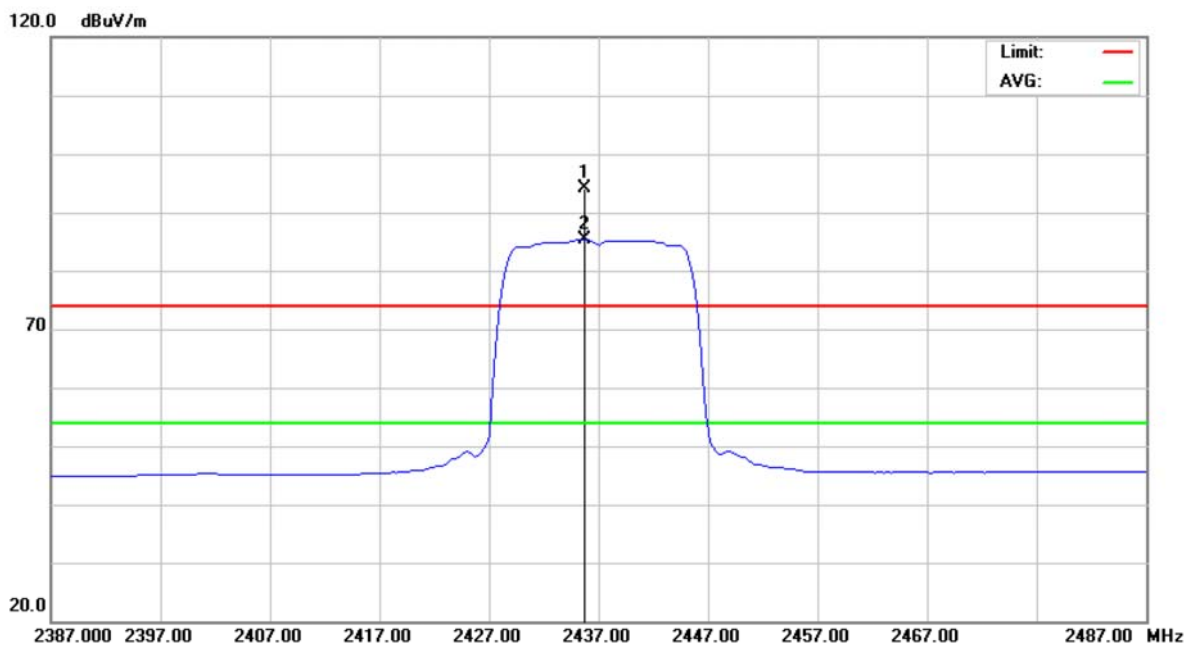


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.065	47.05	5.78	52.83	74.00	-21.17	peak	
2		4874.065	32.37	5.78	38.15	54.00	-15.85	AVG	
3		7310.865	43.08	12.57	55.65	74.00	-18.35	peak	
4	*	7310.865	31.29	12.57	43.86	54.00	-10.14	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2437 MHz		

Polarization: Horizontal

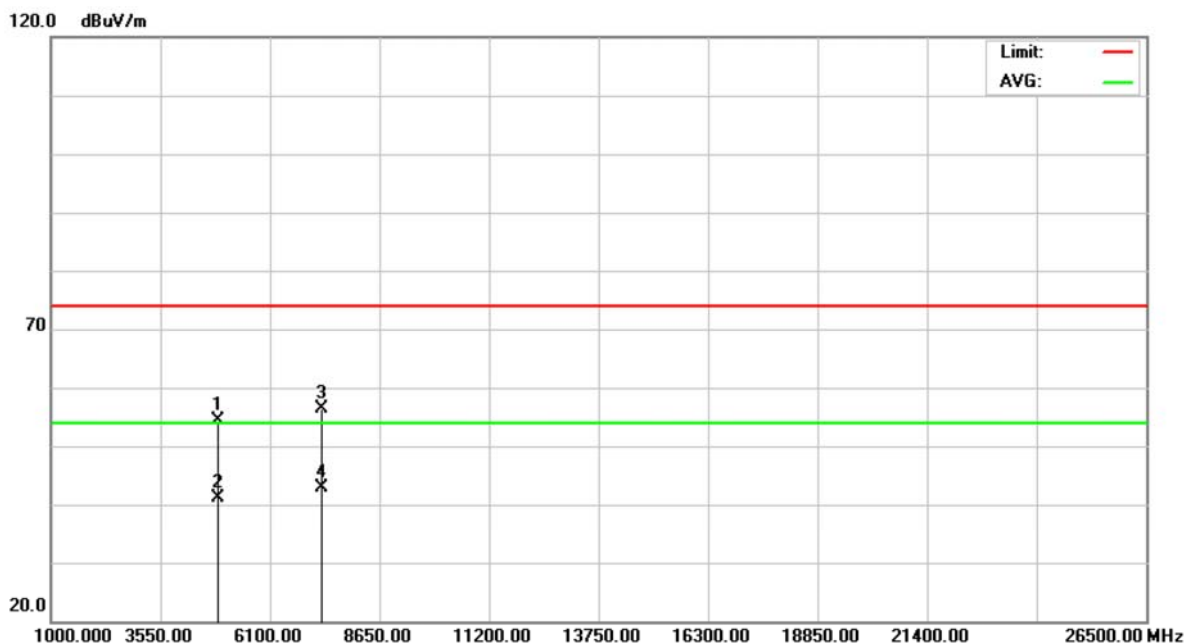


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2435.750	62.15	31.87	94.02	74.00	20.02	peak	
2	*	2435.750	53.46	31.87	85.33	54.00	31.33	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2437 MHz		

Polarization: Horizontal

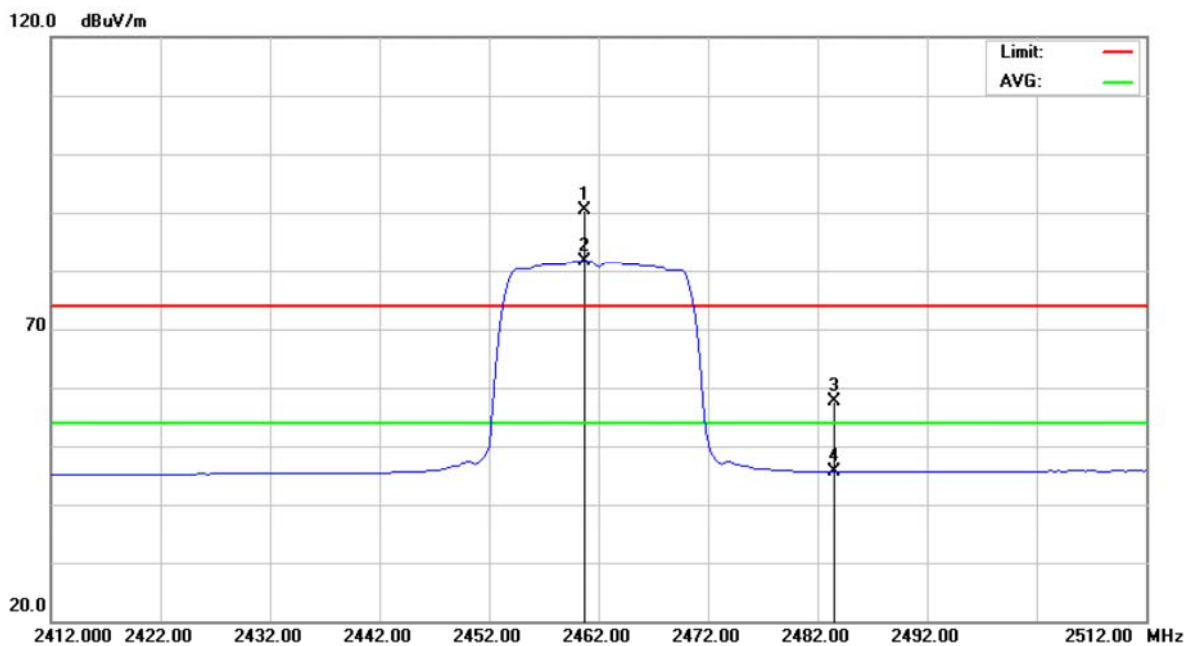


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4873.965	48.60	5.78	54.38	74.00	-19.62	peak	
2		4873.965	35.32	5.78	41.10	54.00	-12.90	AVG	
3		7310.940	43.89	12.57	56.46	74.00	-17.54	peak	
4	*	7310.940	30.24	12.57	42.81	54.00	-11.19	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2462 MHz		

Polarization: Vertical

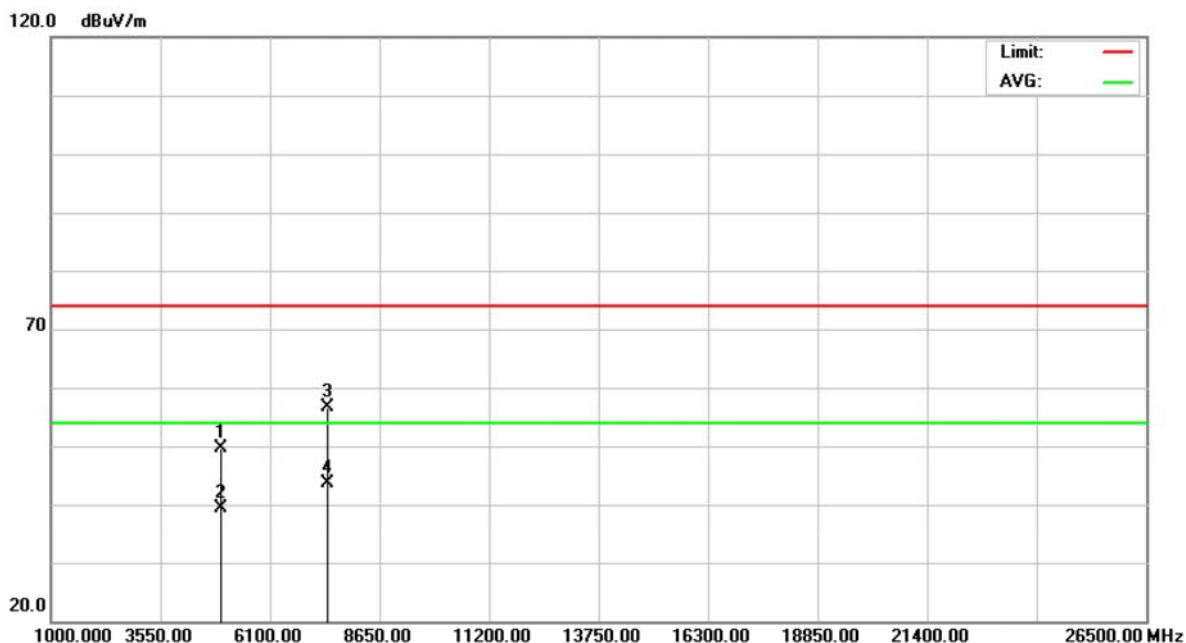


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2460.750	58.38	31.98	90.36	74.00	16.36	peak	
2	*	2460.750	49.66	31.98	81.64	54.00	27.64	AVG	
3		2483.500	25.62	32.09	57.71	74.00	-16.29	peak	
4		2483.500	13.49	32.09	45.58	54.00	-8.42	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2462 MHz		

Polarization: Vertical

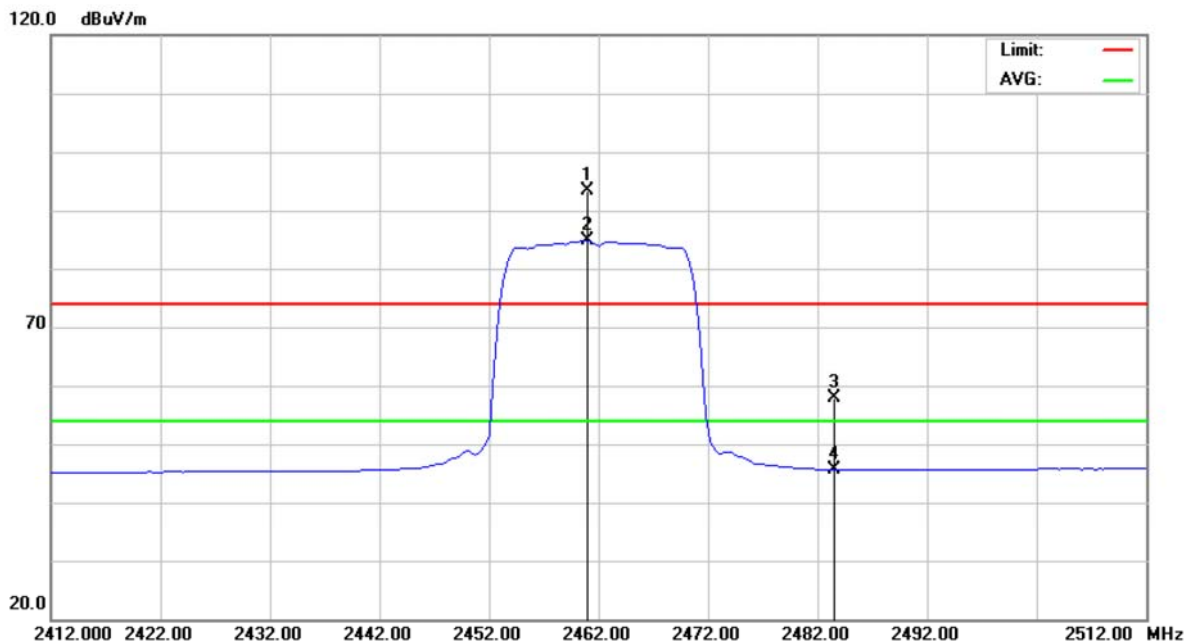


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4923.965	43.78	5.84	49.62	74.00	-24.38	peak	
2		4923.965	33.49	5.84	39.33	54.00	-14.67	AVG	
3		7385.720	43.91	12.84	56.75	74.00	-17.25	peak	
4	*	7385.720	30.71	12.84	43.55	54.00	-10.45	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2462 MHz		

Polarization: Horizontal

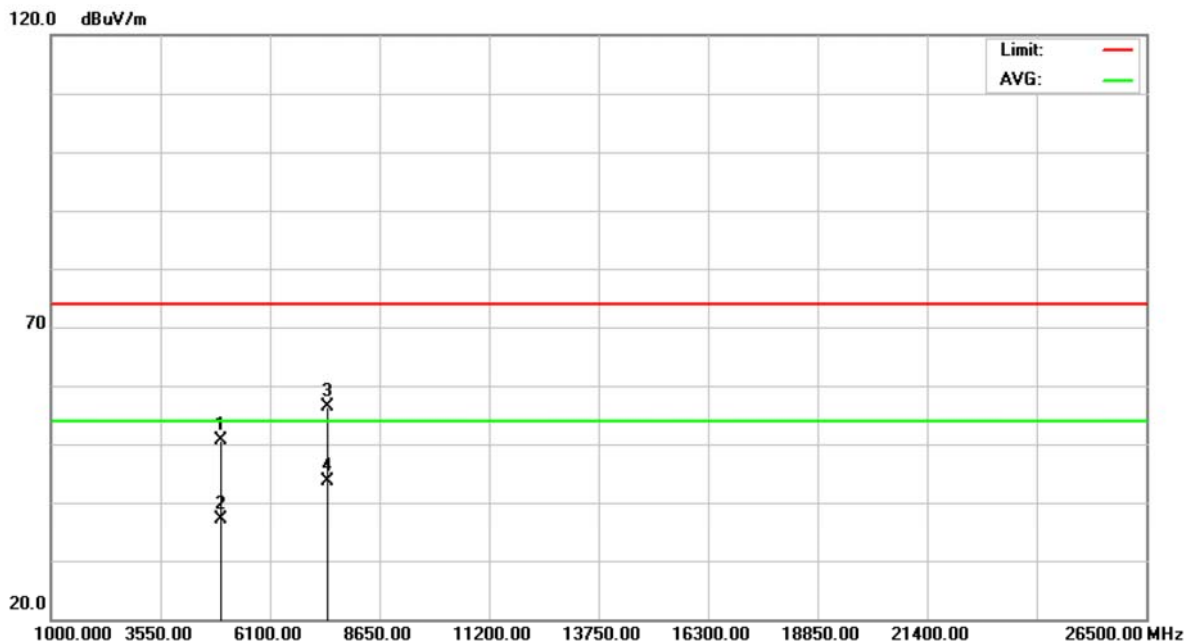


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2461.000	61.40	31.99	93.39	74.00	19.39	peak	
2	*	2461.000	52.77	31.99	84.76	54.00	30.76	AVG	
3		2483.500	25.74	32.09	57.83	74.00	-16.17	peak	
4		2483.500	13.55	32.09	45.64	54.00	-8.36	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2462 MHz		

Polarization: Horizontal

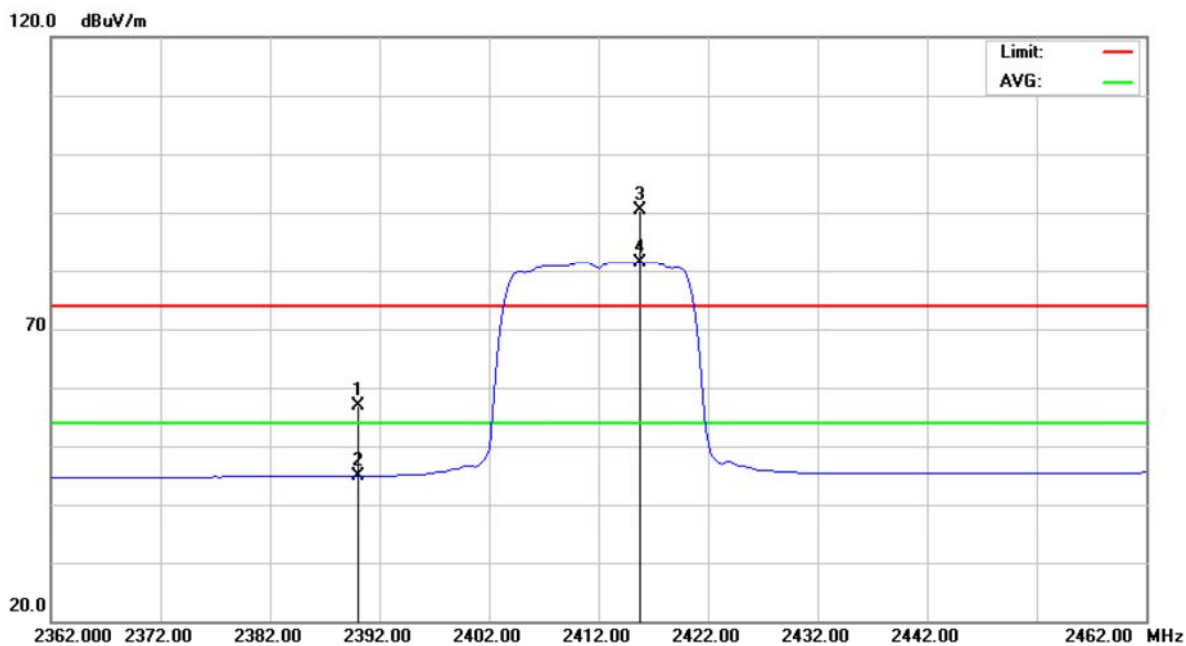


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4923.865	44.86	5.84	50.70	74.00	-23.30	peak	
2		4923.865	31.28	5.84	37.12	54.00	-16.88	AVG	
3		7385.925	43.52	12.85	56.37	74.00	-17.63	peak	
4	*	7385.925	30.73	12.85	43.58	54.00	-10.42	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2412 MHz		

Polarization: Vertical

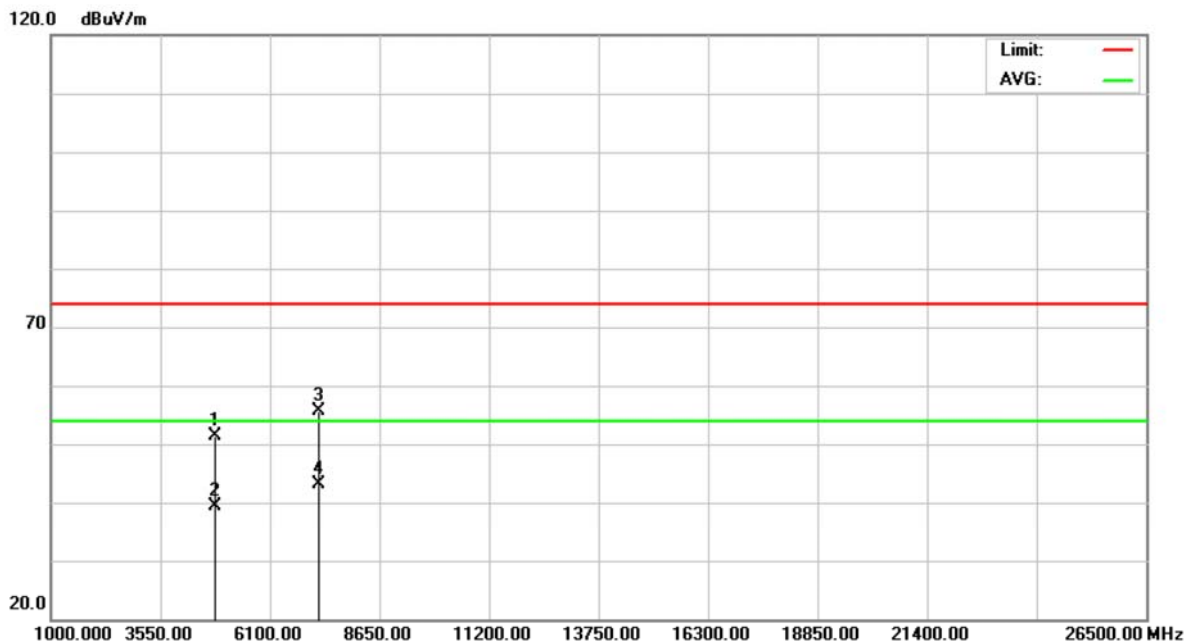


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	25.24	31.67	56.91	74.00	-17.09	peak	
2		2390.000	13.23	31.67	44.90	54.00	-9.10	AVG	
3	X	2415.750	58.57	31.78	90.35	74.00	16.35	peak	
4	*	2415.750	49.67	31.78	81.45	54.00	27.45	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2412 MHz		

Polarization: Vertical

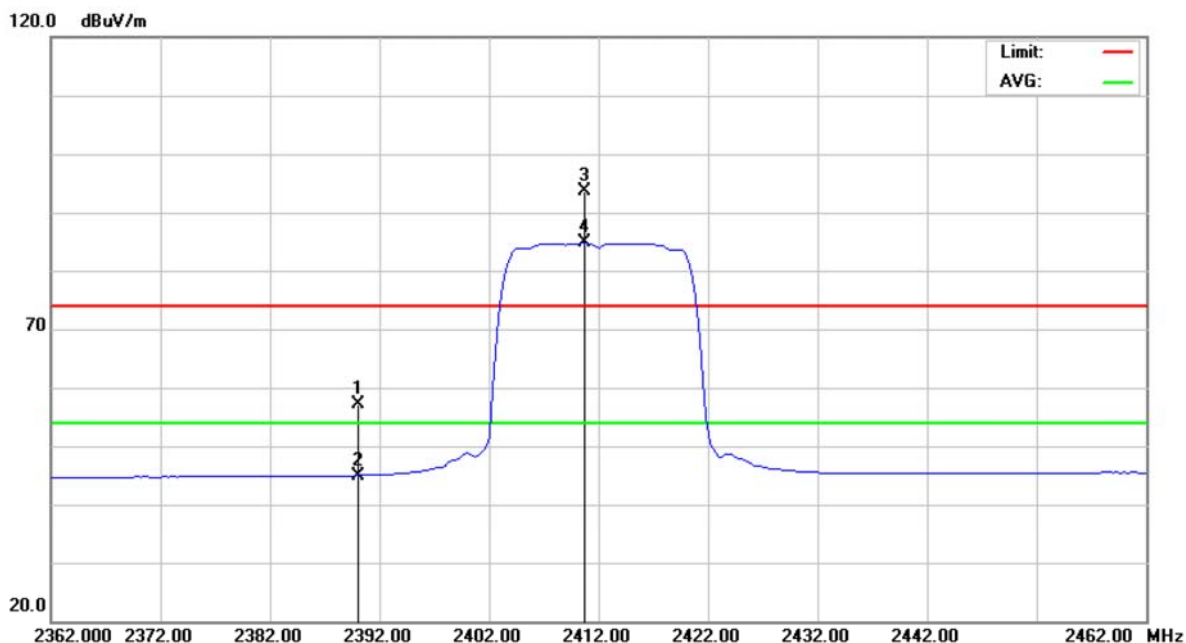


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4823.900	45.69	5.71	51.40	74.00	-22.60	peak	
2		4823.900	33.68	5.71	39.39	54.00	-14.61	AVG	
3		7236.055	43.39	12.29	55.68	74.00	-18.32	peak	
4	*	7236.055	30.77	12.29	43.06	54.00	-10.94	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2412 MHz		

Polarization: Horizontal

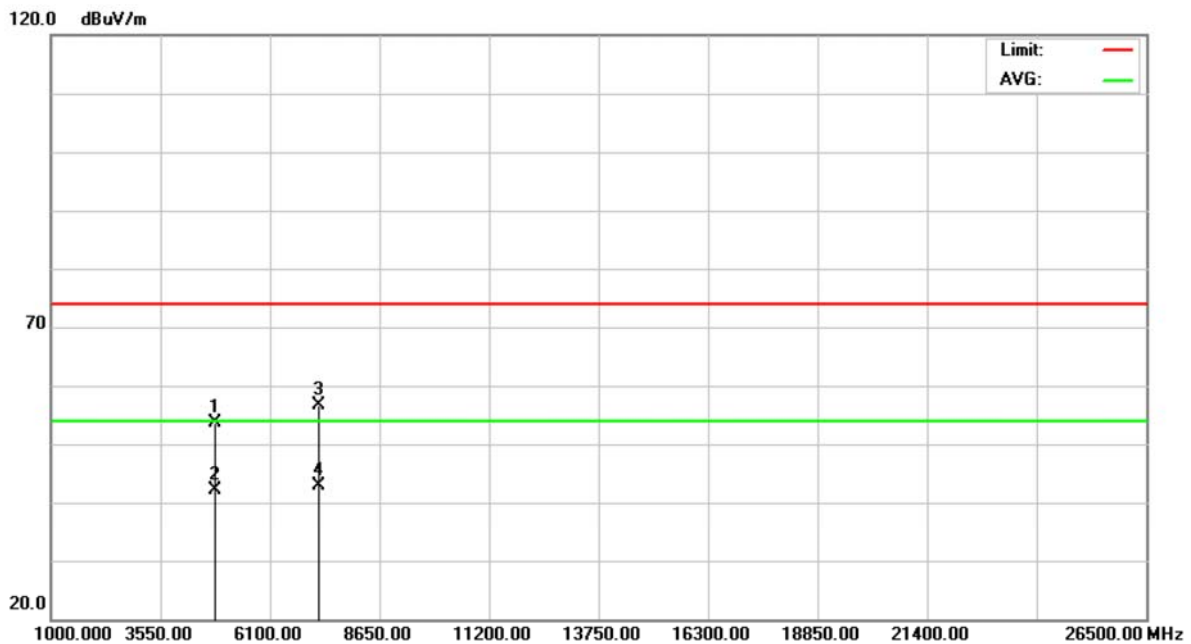


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	25.34	31.67	57.01	74.00	-16.99	peak	
2		2390.000	13.33	31.67	45.00	54.00	-9.00	AVG	
3	X	2410.750	61.76	31.76	93.52	74.00	19.52	peak	
4	*	2410.750	53.00	31.76	84.76	54.00	30.76	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2412 MHz		

Polarization: Horizontal

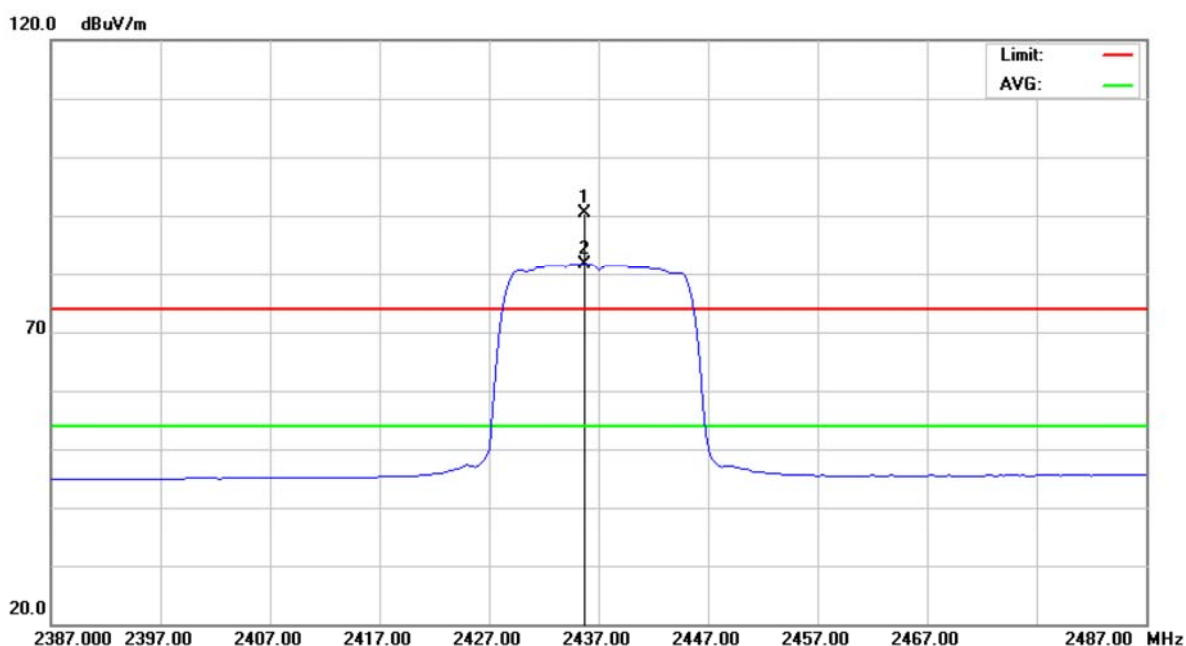


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.145	47.93	5.71	53.64	74.00	-20.36	peak	
2		4824.145	36.43	5.71	42.14	54.00	-11.86	AVG	
3		7236.000	44.41	12.29	56.70	74.00	-17.30	peak	
4	*	7236.000	30.67	12.29	42.96	54.00	-11.04	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2437 MHz		

Polarization: Vertical

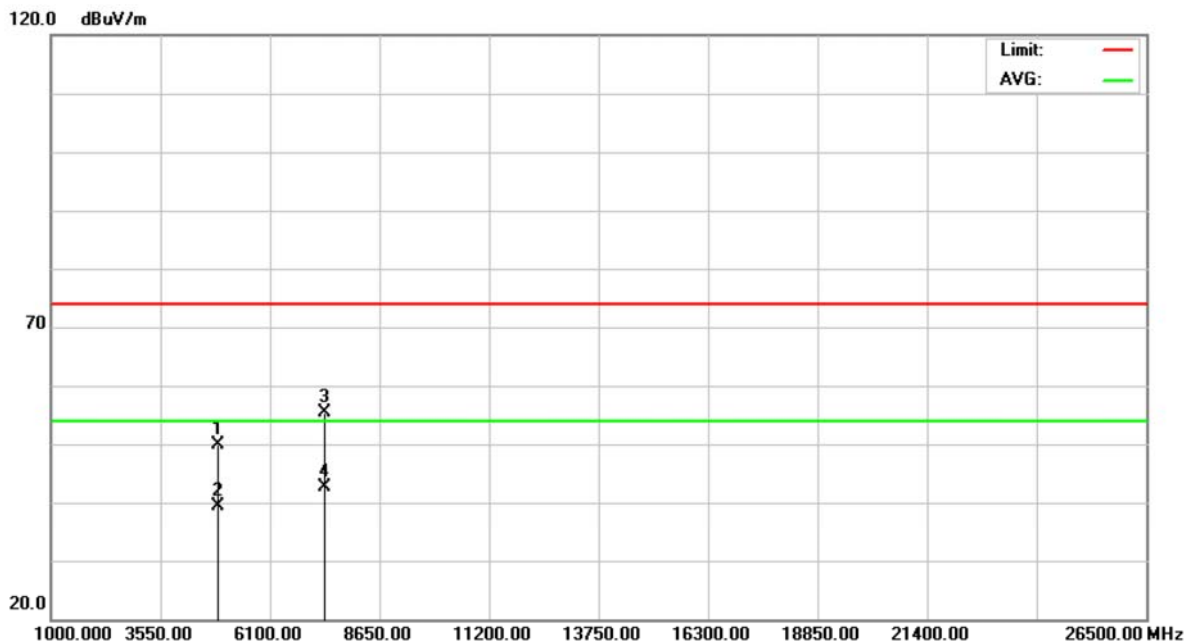


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2435.750	58.44	31.87	90.31	74.00	16.31	peak	
2	*	2435.750	49.82	31.87	81.69	54.00	27.69	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2437 MHz		

Polarization: Vertical

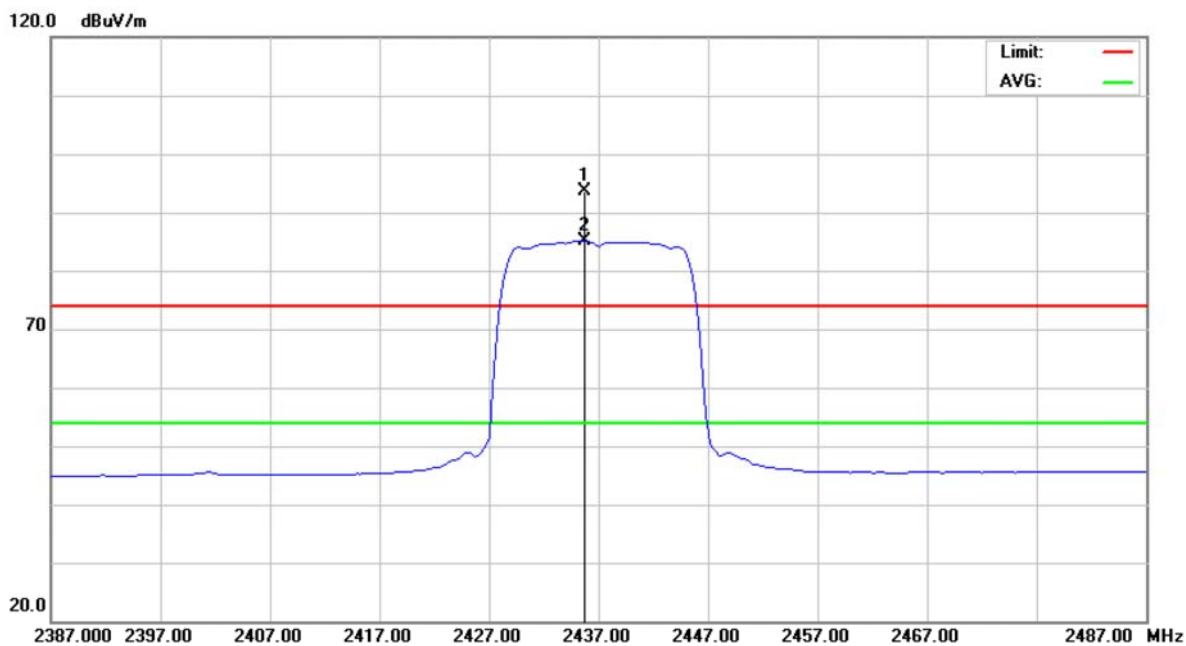


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.075	44.14	5.78	49.92	74.00	-24.08	peak	
2		4874.075	33.50	5.78	39.28	54.00	-14.72	AVG	
3		7311.740	42.73	12.57	55.30	74.00	-18.70	peak	
4	*	7311.740	30.17	12.57	42.74	54.00	-11.26	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2437 MHz		

Polarization: Horizontal

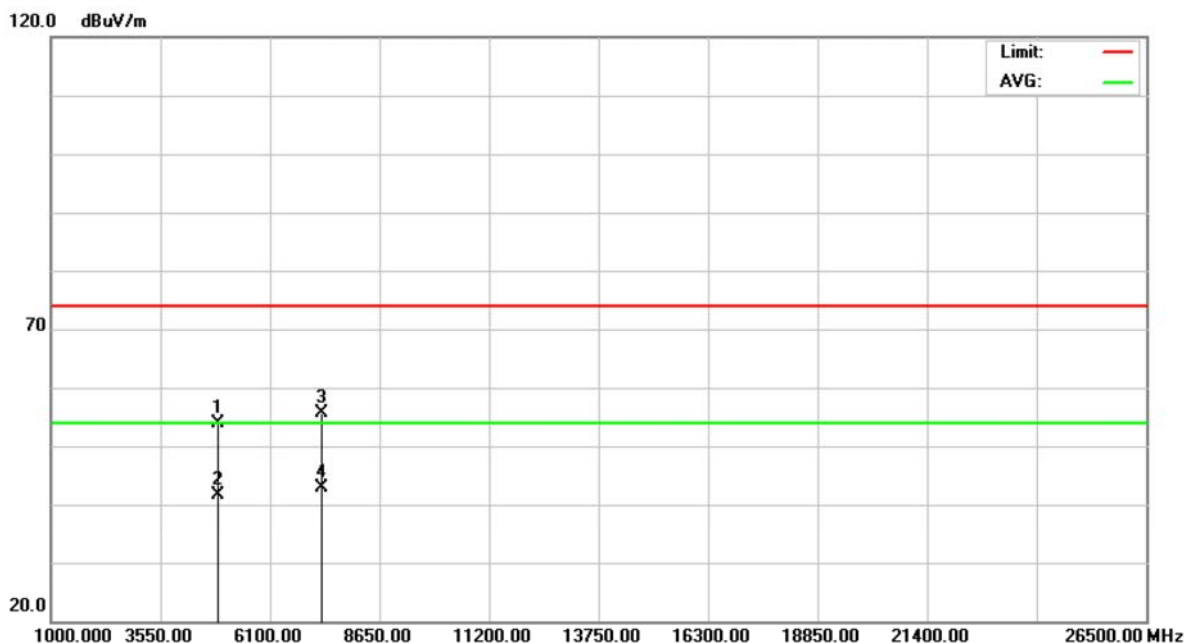


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2435.750	61.87	31.87	93.74	74.00	19.74	peak	
2	*	2435.750	53.26	31.87	85.13	54.00	31.13	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2437 MHz		

Polarization: Horizontal

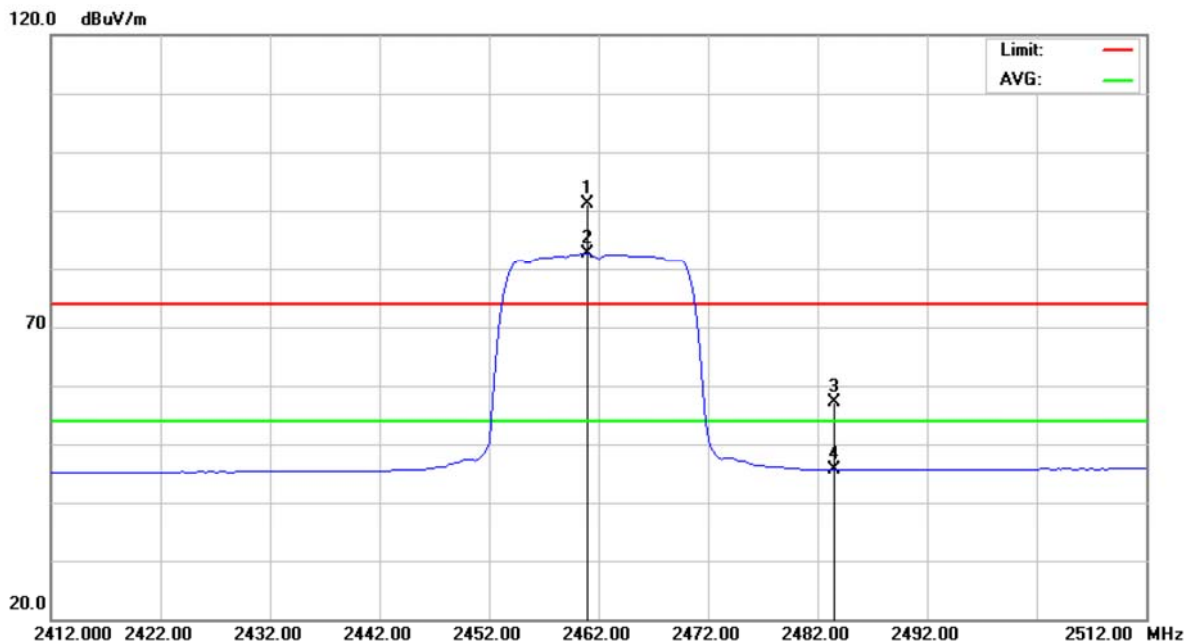


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4873.785	48.17	5.78	53.95	74.00	-20.05	peak	
2		4873.785	35.87	5.78	41.65	54.00	-12.35	AVG	
3		7310.225	43.04	12.56	55.60	74.00	-18.40	peak	
4	*	7310.225	30.22	12.56	42.78	54.00	-11.22	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2462 MHz		

Polarization: Vertical

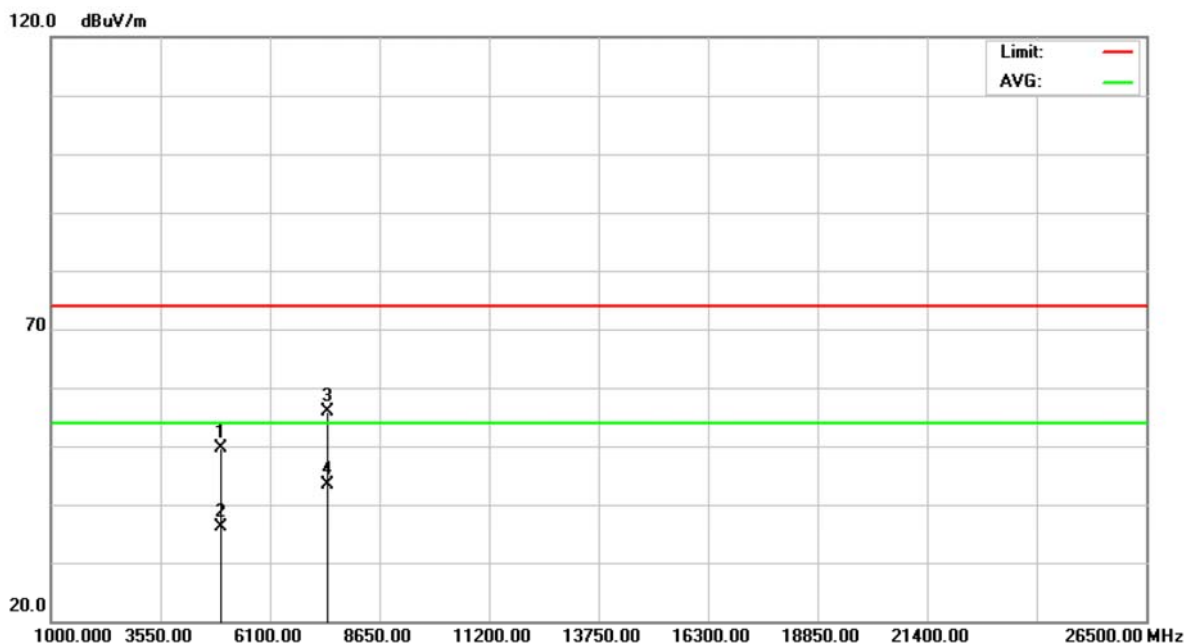


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2461.000	59.16	31.99	91.15	74.00	17.15	peak	
2	*	2461.000	50.57	31.99	82.56	54.00	28.56	AVG	
3		2483.500	25.12	32.09	57.21	74.00	-16.79	peak	
4		2483.500	13.57	32.09	45.66	54.00	-8.34	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2462 MHz		

Polarization: Vertical

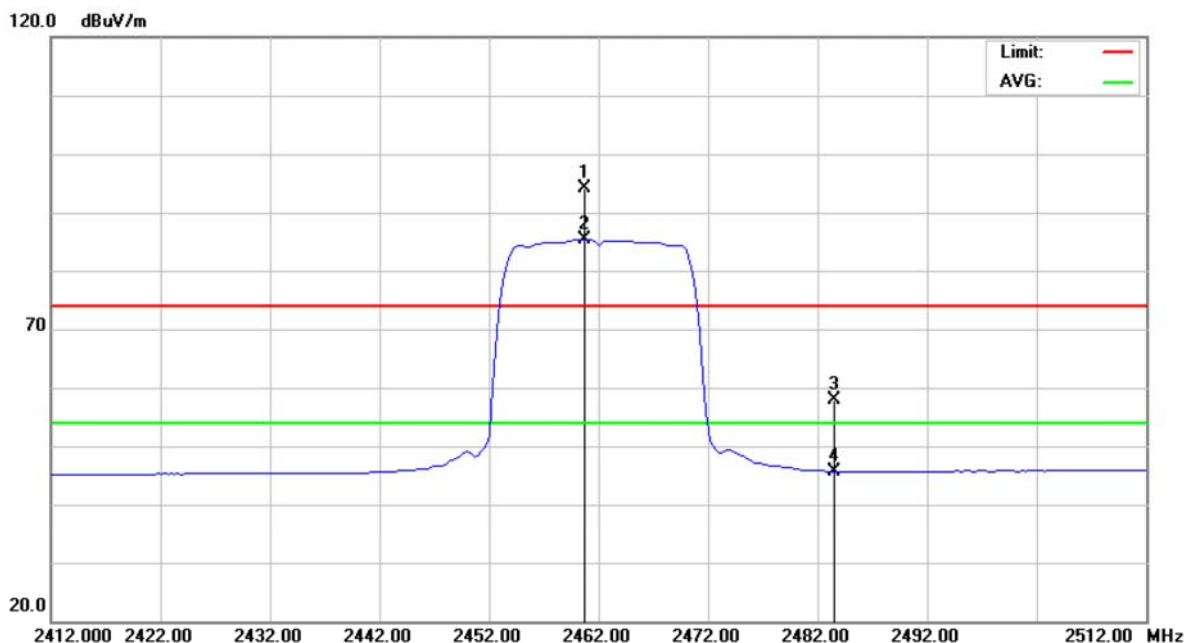


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.275	43.76	5.84	49.60	74.00	-24.40	peak	
2		4924.275	30.28	5.84	36.12	54.00	-17.88	AVG	
3		7385.915	43.08	12.85	55.93	74.00	-18.07	peak	
4	*	7385.915	30.49	12.85	43.34	54.00	-10.66	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2462 MHz		

Polarization: Horizontal

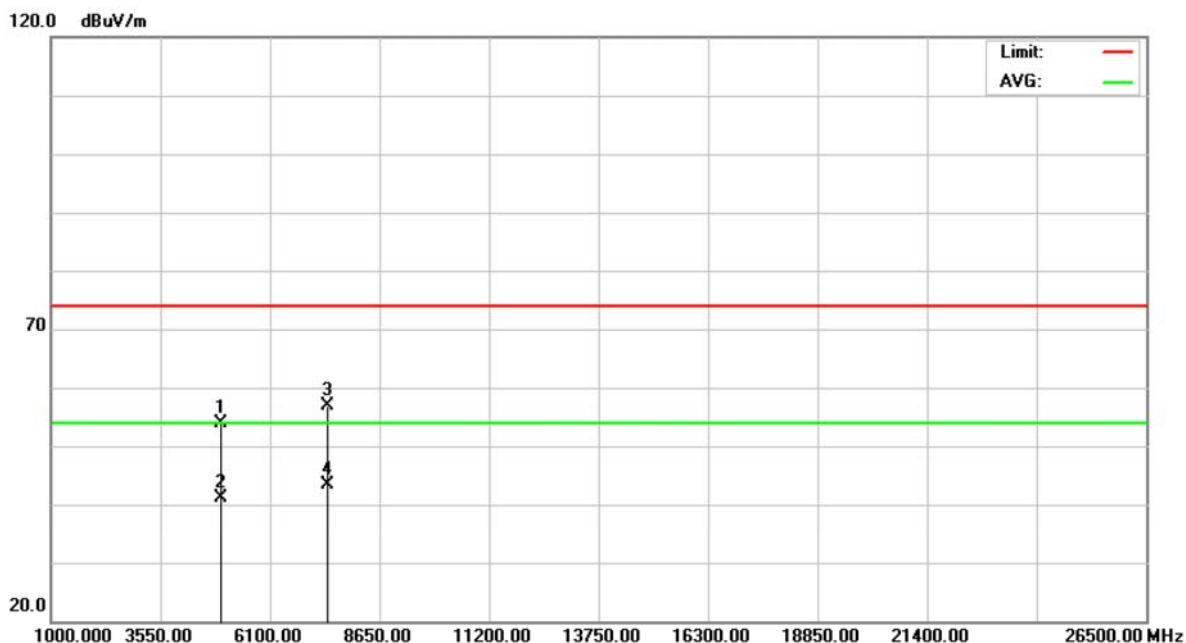


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2460.750	62.08	31.98	94.06	74.00	20.06	peak	
2	*	2460.750	53.44	31.98	85.42	54.00	31.42	AVG	
3		2483.500	25.71	32.09	57.80	74.00	-16.20	peak	
4		2483.500	13.61	32.09	45.70	54.00	-8.30	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2462 MHz		

Polarization: Horizontal

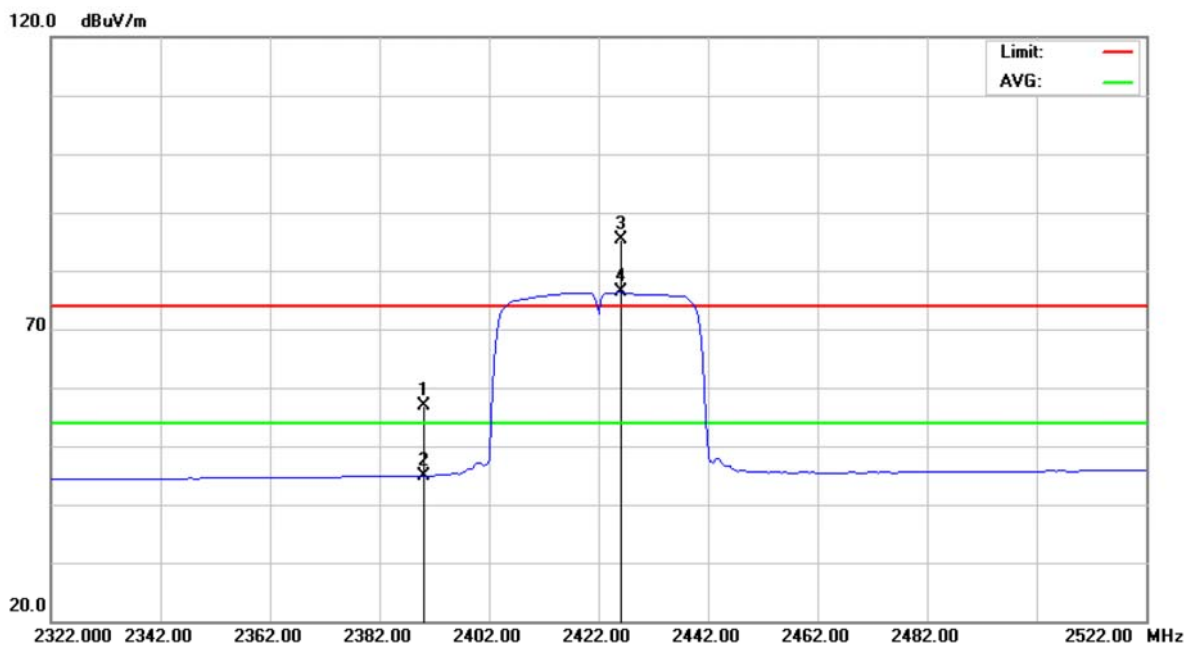


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4923.910	47.99	5.84	53.83	74.00	-20.17	peak	
2		4923.910	35.18	5.84	41.02	54.00	-12.98	AVG	
3		7386.095	44.00	12.85	56.85	74.00	-17.15	peak	
4	*	7386.095	30.46	12.85	43.31	54.00	-10.69	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2422 MHz		

Polarization: Vertical

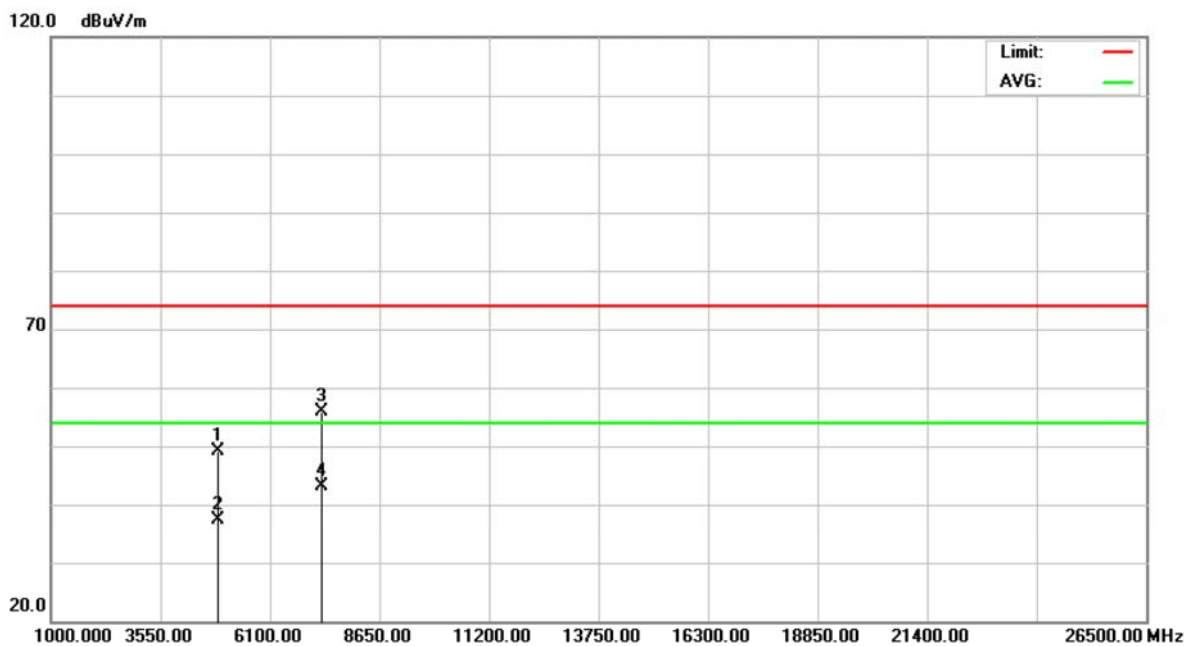


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	25.23	31.67	56.90	74.00	-17.10	peak	
2		2390.000	13.29	31.67	44.96	54.00	-9.04	AVG	
3	X	2426.000	53.49	31.83	85.32	74.00	11.32	peak	
4	*	2426.000	44.45	31.83	76.28	54.00	22.28	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2422 MHz		

Polarization: Vertical

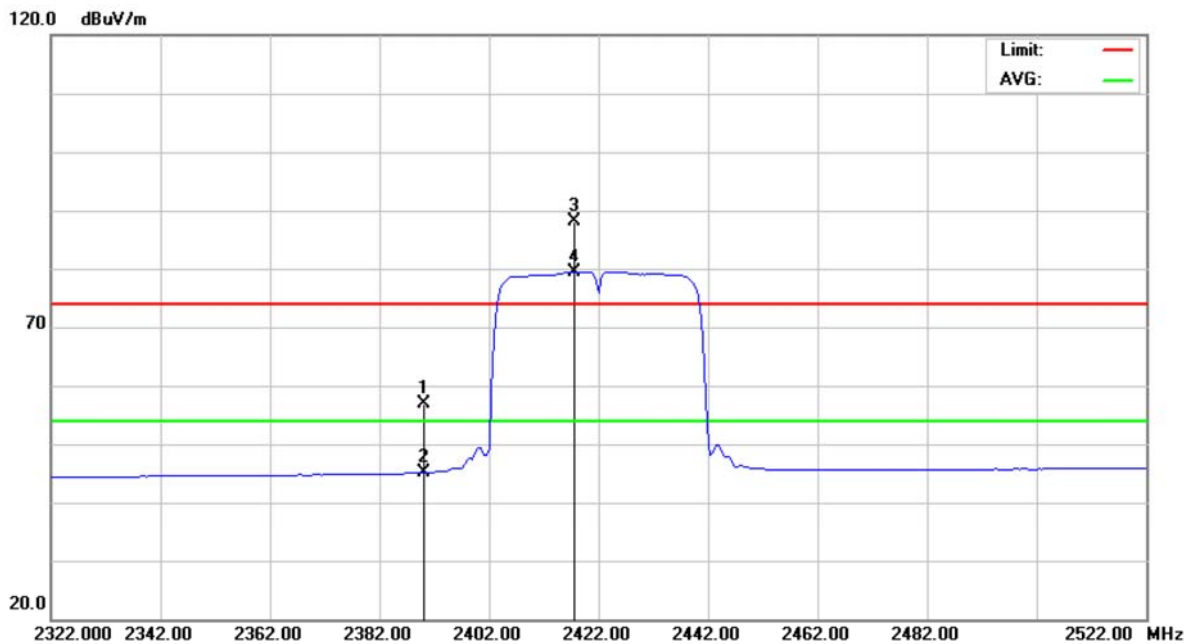


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4844.170	43.46	5.74	49.20	74.00	-24.80	peak	
2		4844.170	31.70	5.74	37.44	54.00	-16.56	AVG	
3		7266.405	43.44	12.40	55.84	74.00	-18.16	peak	
4	*	7266.405	30.81	12.40	43.21	54.00	-10.79	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2422 MHz		

Polarization: Horizontal

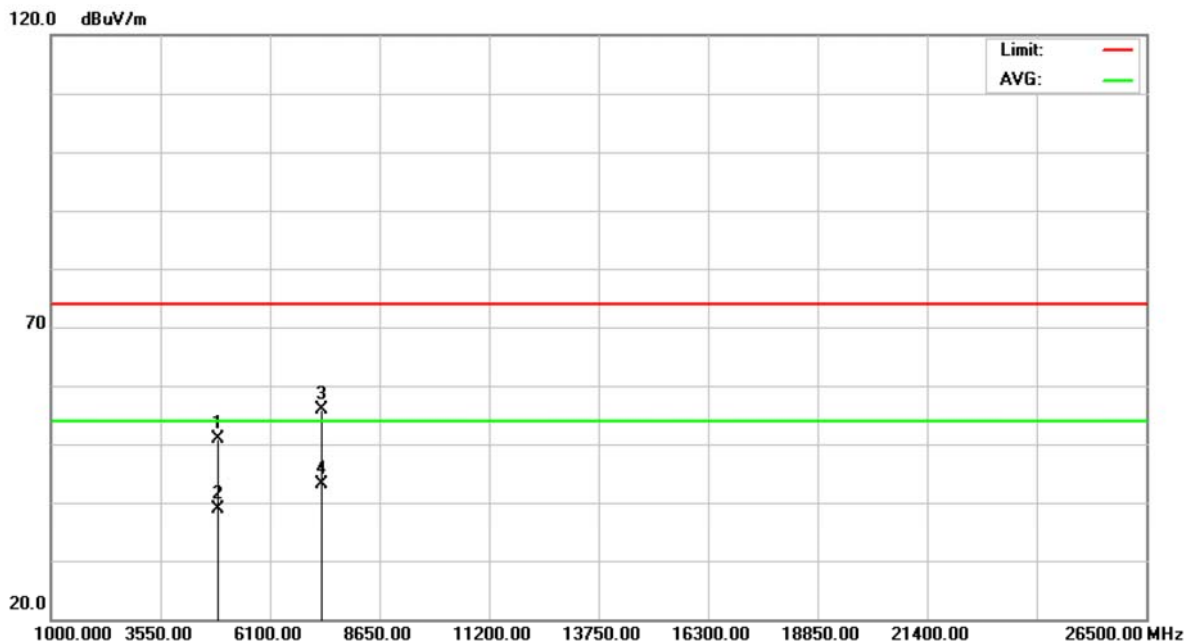


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	25.25	31.67	56.92	74.00	-17.08	peak	
2		2390.000	13.48	31.67	45.15	54.00	-8.85	AVG	
3	X	2417.500	56.39	31.79	88.18	74.00	14.18	peak	
4	*	2417.500	47.62	31.79	79.41	54.00	25.41	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2422 MHz		

Polarization: Horizontal

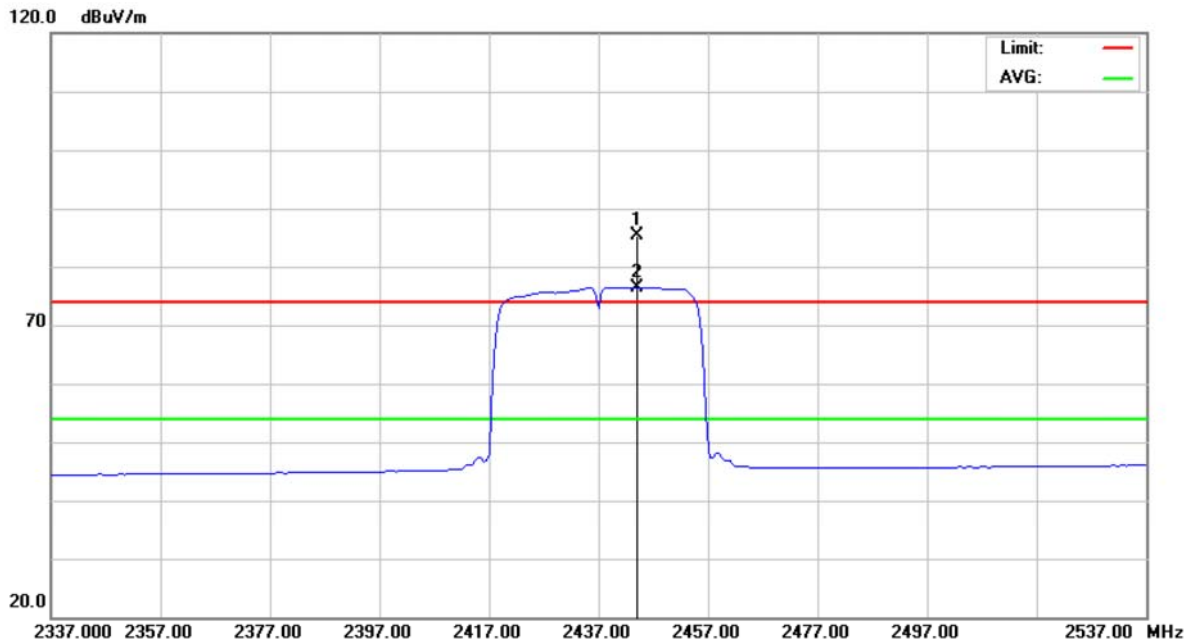


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4843.890	45.19	5.74	50.93	74.00	-23.07	peak	
2		4843.890	33.23	5.74	38.97	54.00	-15.03	AVG	
3		7265.905	43.49	12.40	55.89	74.00	-18.11	peak	
4	*	7265.905	30.78	12.40	43.18	54.00	-10.82	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2437 MHz		

Polarization: Vertical

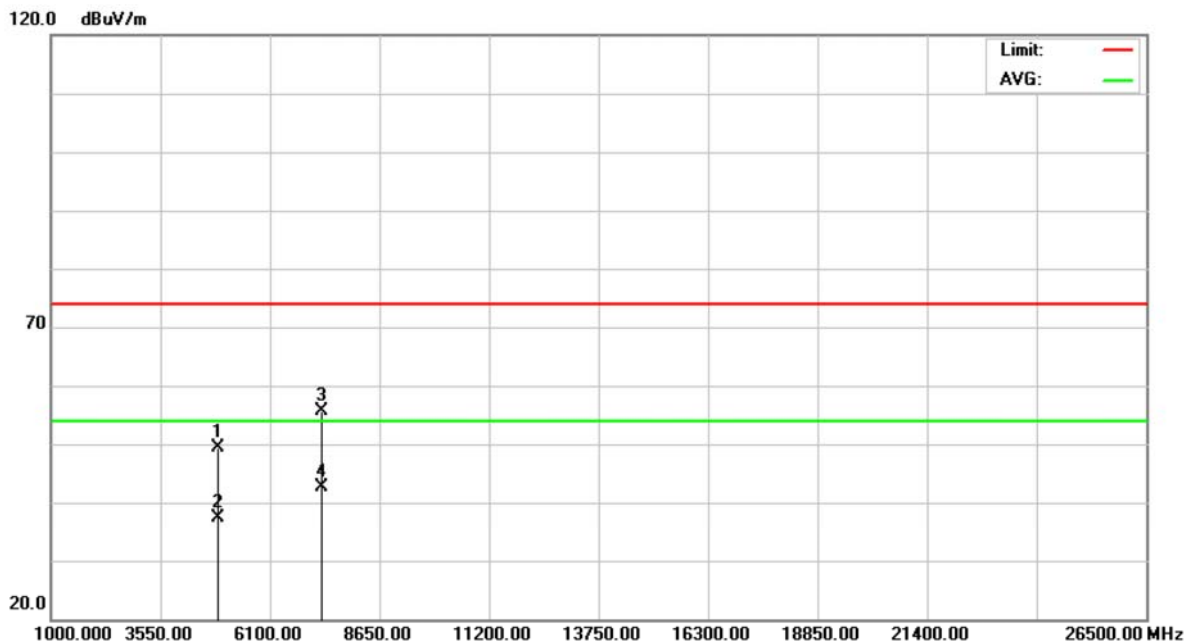


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2444.000	53.41	31.91	85.32	74.00	11.32	peak	
2	*	2444.000	44.53	31.91	76.44	54.00	22.44	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2437 MHz		

Polarization: Vertical

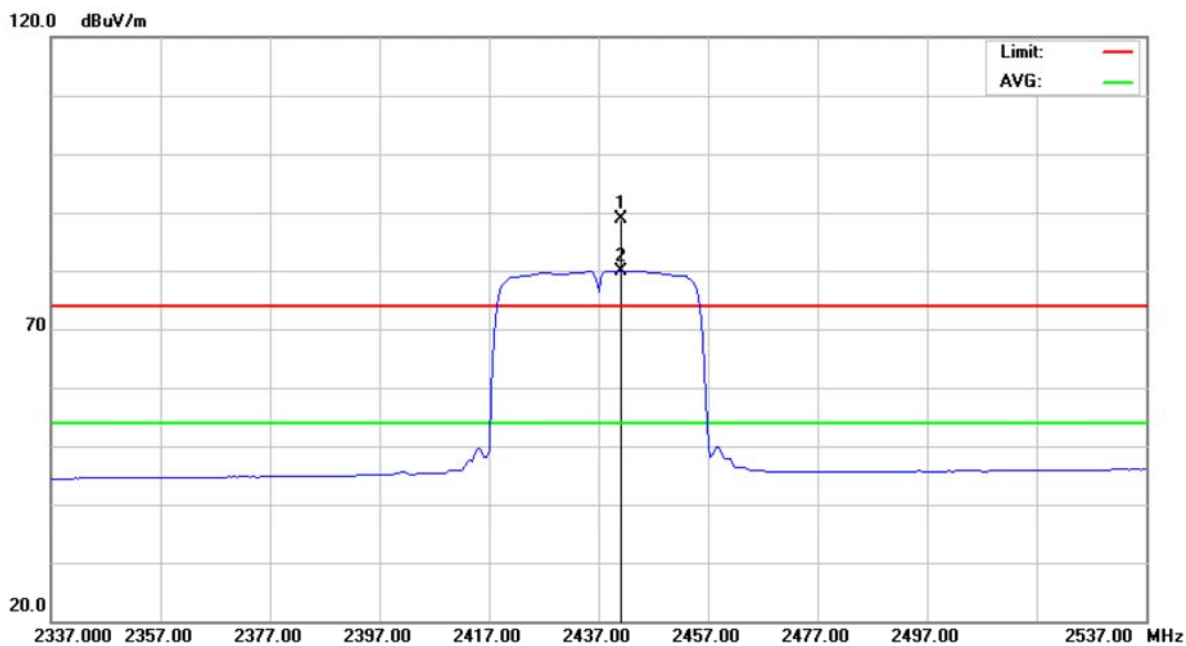


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4873.950	43.66	5.78	49.44	74.00	-24.56	peak	
2		4873.950	31.59	5.78	37.37	54.00	-16.63	AVG	
3		7310.470	43.19	12.56	55.75	74.00	-18.25	peak	
4	*	7310.470	30.05	12.56	42.61	54.00	-11.39	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2437 MHz		

Polarization: Horizontal

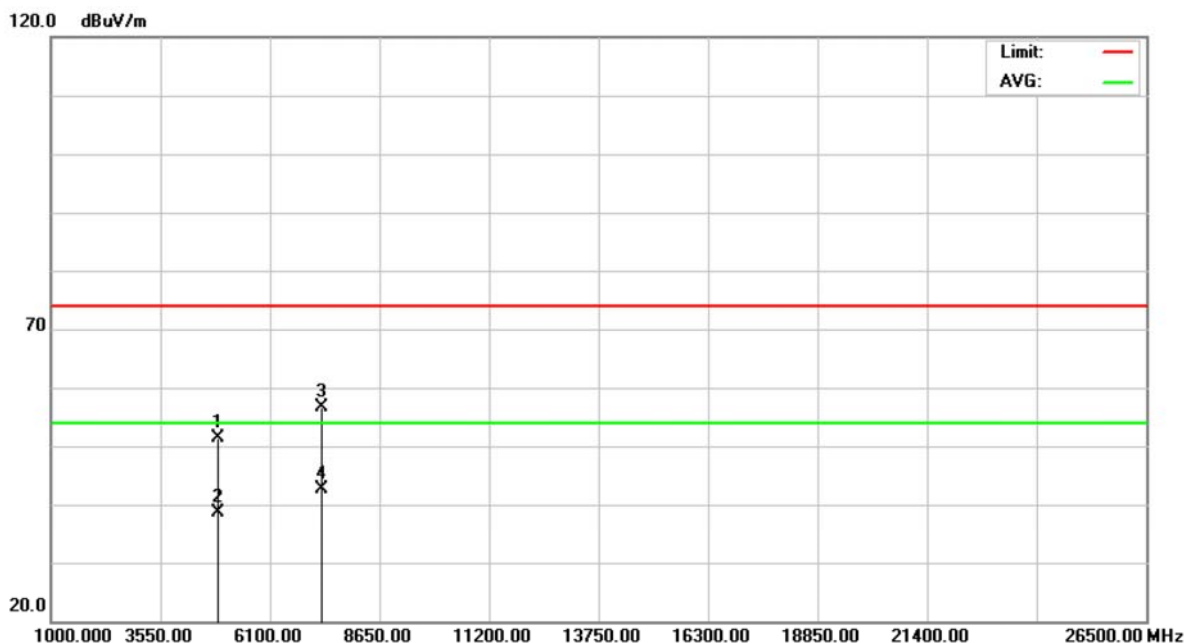


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2441.000	56.96	31.90	88.86	74.00	14.86	peak	
2	*	2441.000	48.02	31.90	79.92	54.00	25.92	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2437 MHz		

Polarization: Horizontal

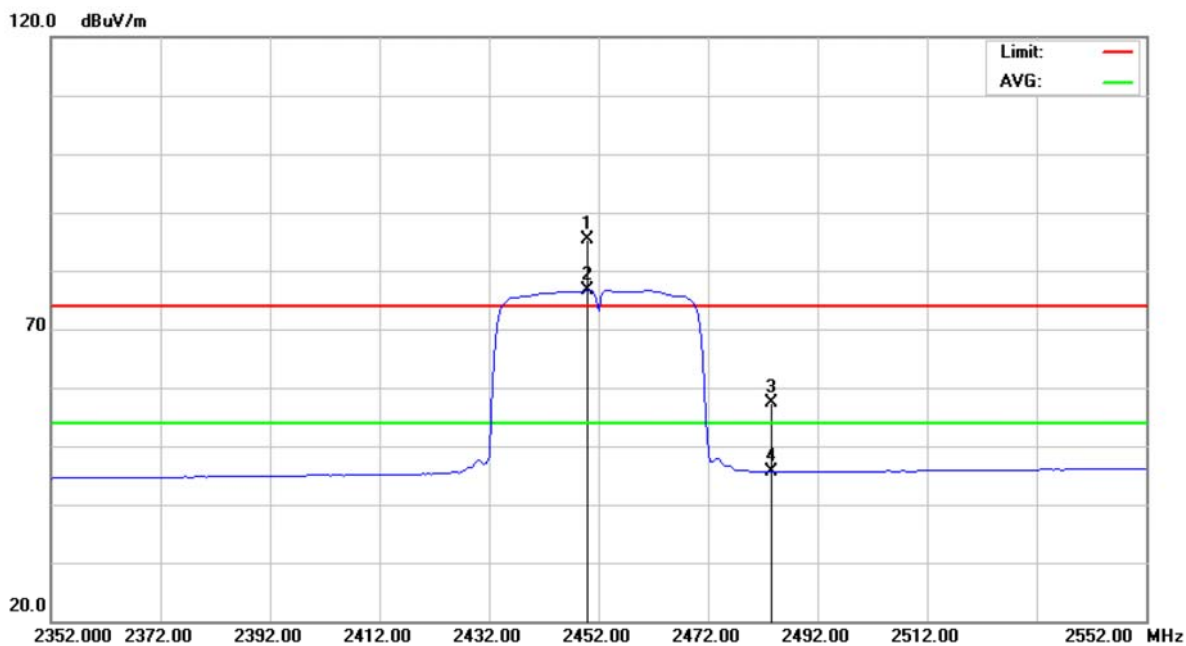


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4873.915	45.50	5.78	51.28	74.00	-22.72	peak	
2		4873.915	32.80	5.78	38.58	54.00	-15.42	AVG	
3		7310.360	44.00	12.56	56.56	74.00	-17.44	peak	
4	*	7310.360	30.06	12.56	42.62	54.00	-11.38	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2452 MHz		

Polarization: Vertical

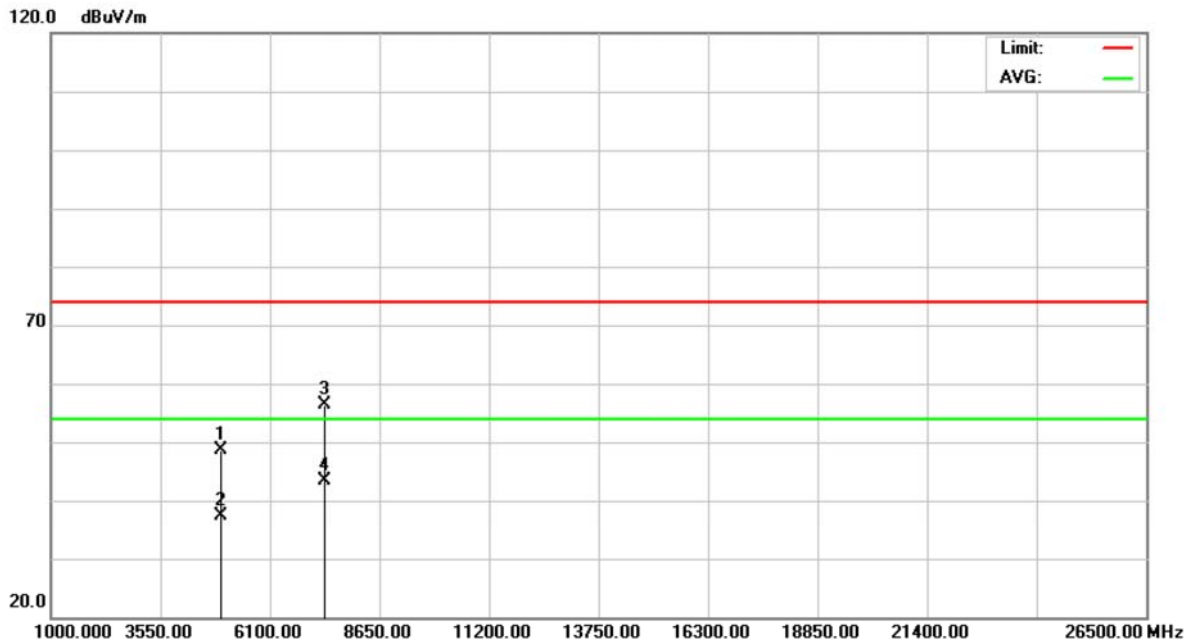


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2450.000	53.32	31.94	85.26	74.00	11.26	peak	
2	*	2450.000	44.63	31.94	76.57	54.00	22.57	AVG	
3		2483.500	25.35	32.09	57.44	74.00	-16.56	peak	
4		2483.500	13.55	32.09	45.64	54.00	-8.36	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2452 MHz		

Polarization: Vertical

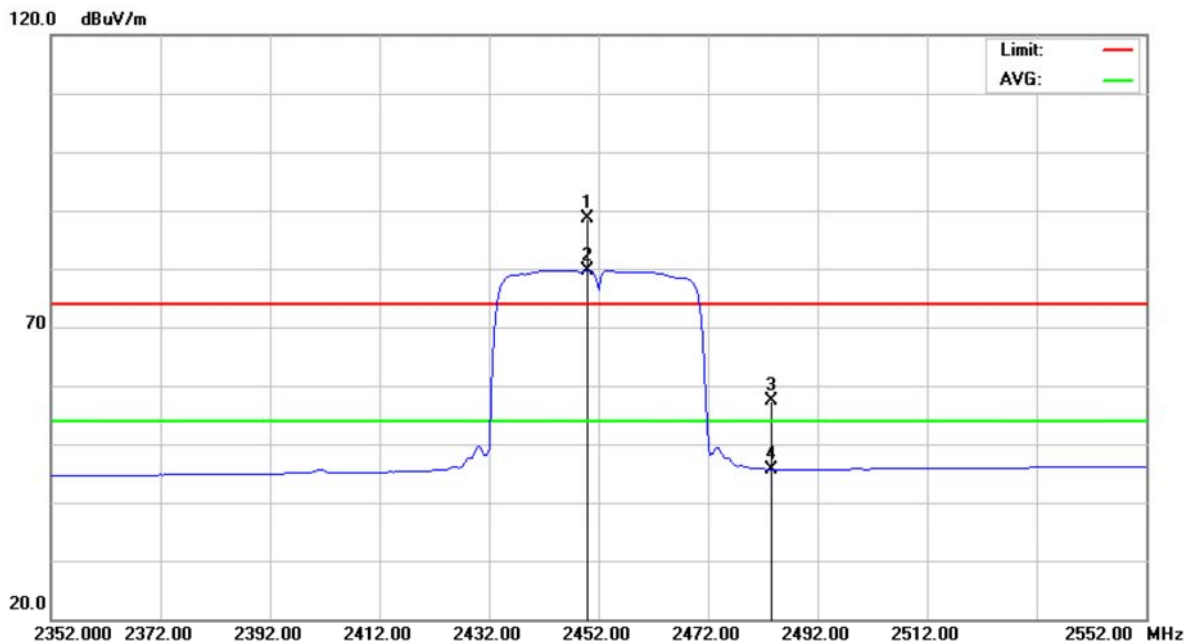


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4903.775	42.74	5.82	48.56	74.00	-25.44	peak	
2		4903.775	31.53	5.82	37.35	54.00	-16.65	AVG	
3		7356.145	43.60	12.73	56.33	74.00	-17.67	peak	
4	*	7356.145	30.74	12.73	43.47	54.00	-10.53	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2452 MHz		

Polarization: Horizontal

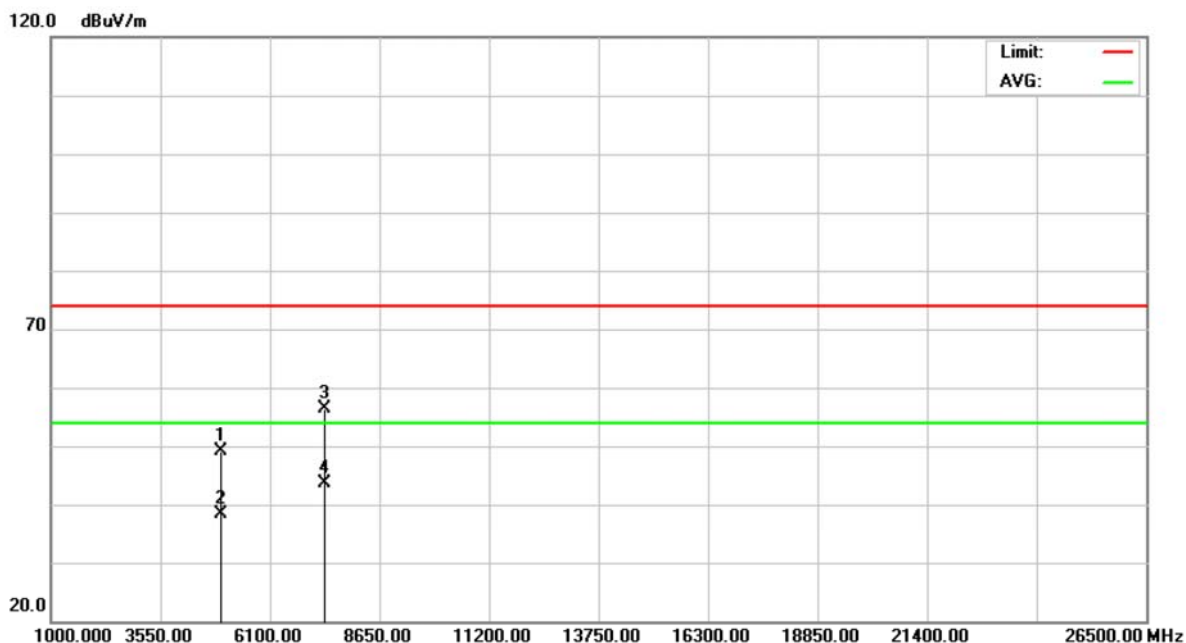


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2450.000	56.65	31.94	88.59	74.00	14.59	peak	
2	*	2450.000	47.74	31.94	79.68	54.00	25.68	AVG	
3		2483.500	25.30	32.09	57.39	74.00	-16.61	peak	
4		2483.500	13.63	32.09	45.72	54.00	-8.28	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2452 MHz		

Polarization: Horizontal



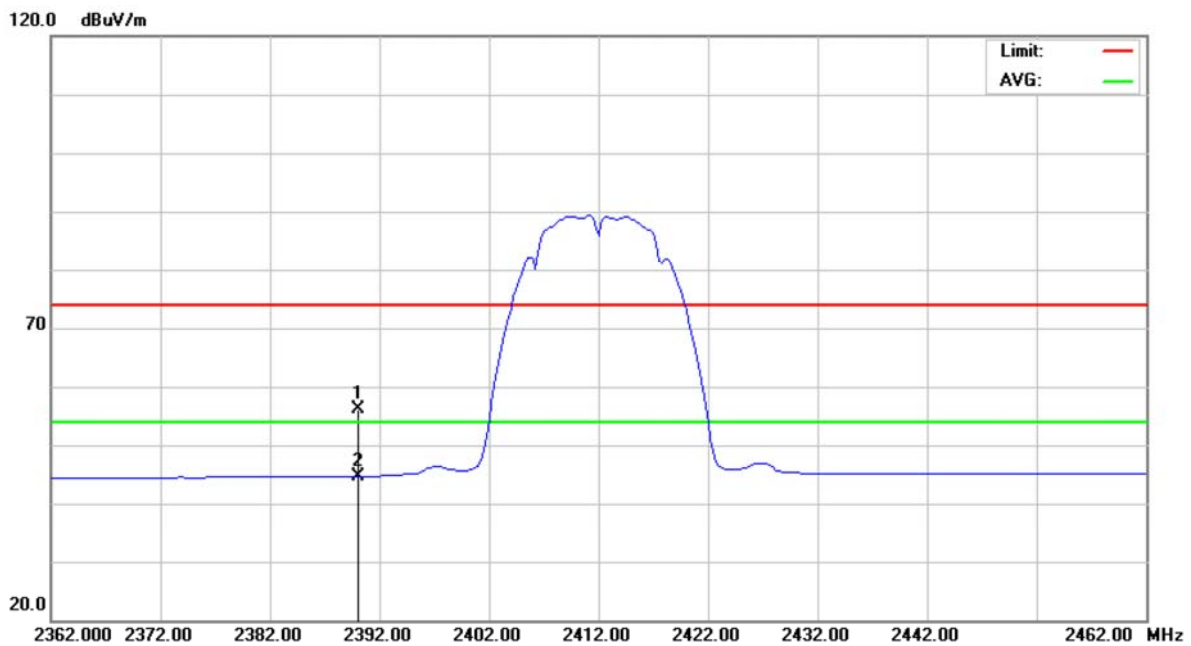
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4903.995	43.31	5.82	49.13	74.00	-24.87	peak	
2		4903.995	32.50	5.82	38.32	54.00	-15.68	AVG	
3		7356.360	43.67	12.74	56.41	74.00	-17.59	peak	
4	*	7356.360	30.80	12.74	43.54	54.00	-10.46	AVG	



8.9 TEST RESULTS (RESTRICTED BANDS)

EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Vertical

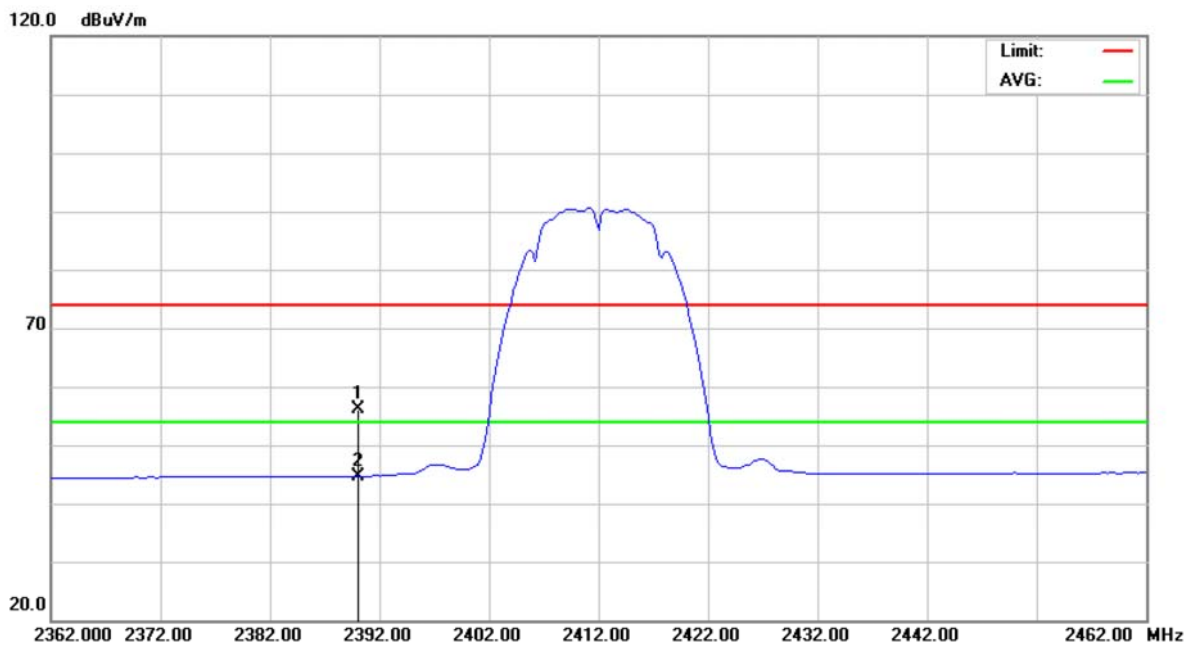


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	24.57	31.67	56.24	74.00	-17.76	peak	
2	*	2390.000	13.01	31.67	44.68	54.00	-9.32	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Horizontal

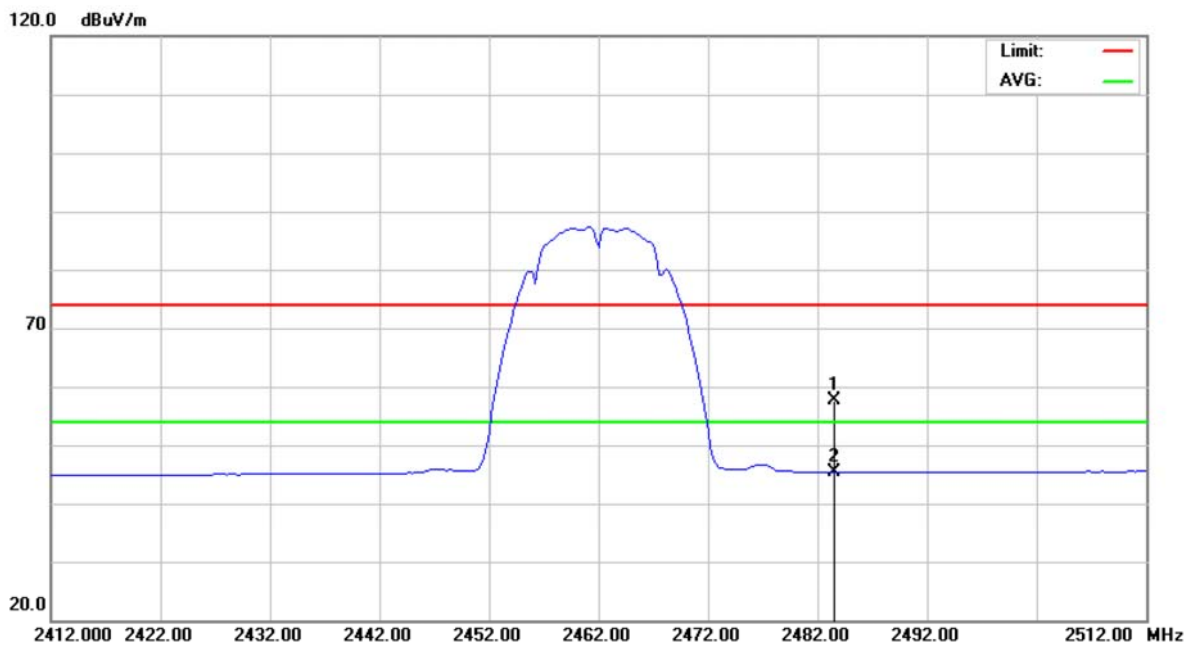


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	24.54	31.67	56.21	74.00	-17.79	peak	
2	*	2390.000	13.07	31.67	44.74	54.00	-9.26	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Vertical

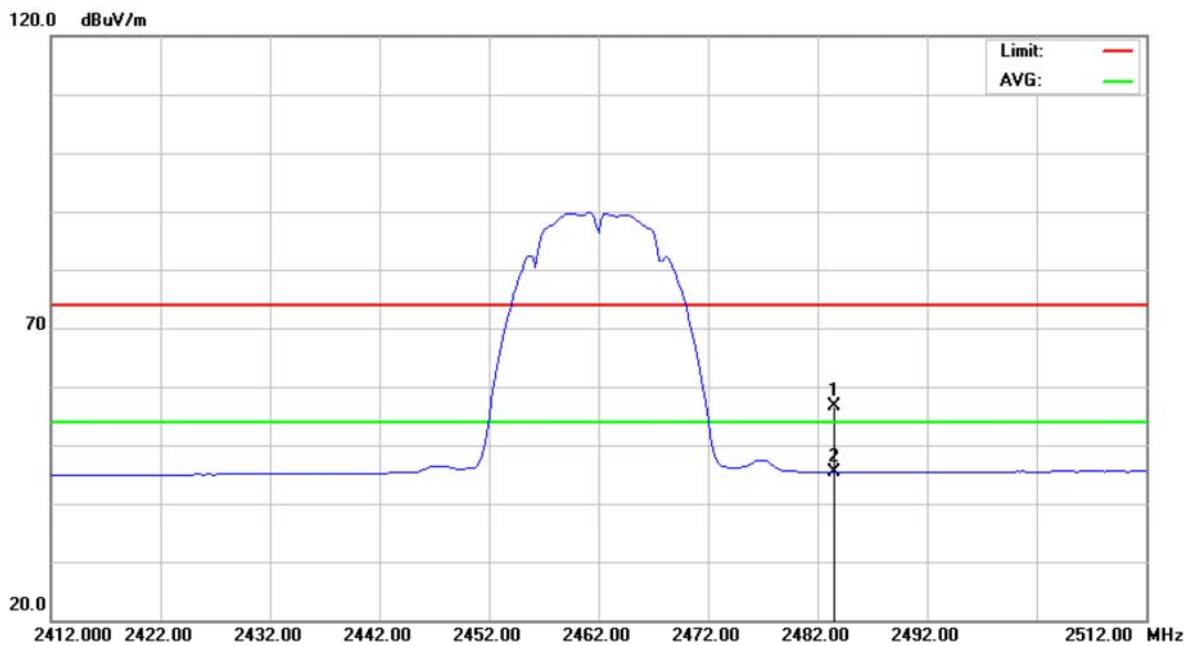


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	25.50	32.09	57.59	74.00	-16.41	peak	
2	*	2483.500	13.20	32.09	45.29	54.00	-8.71	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Horizontal

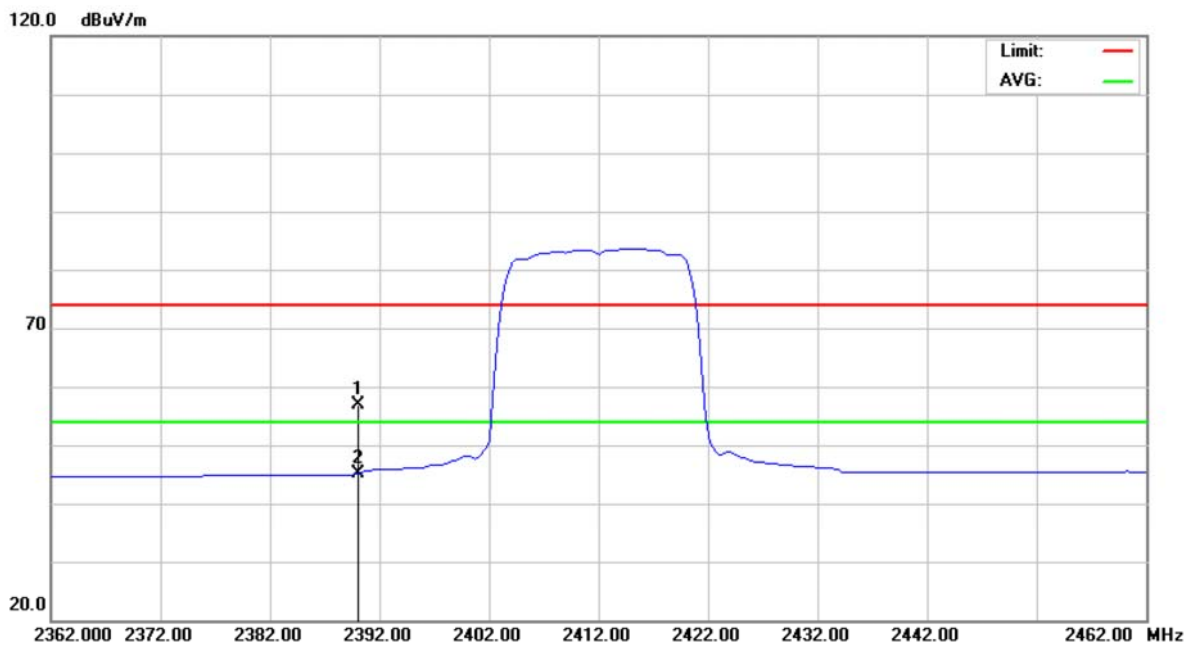


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	24.42	32.09	56.51	74.00	-17.49	peak	
2	*	2483.500	13.26	32.09	45.35	54.00	-8.65	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Vertical

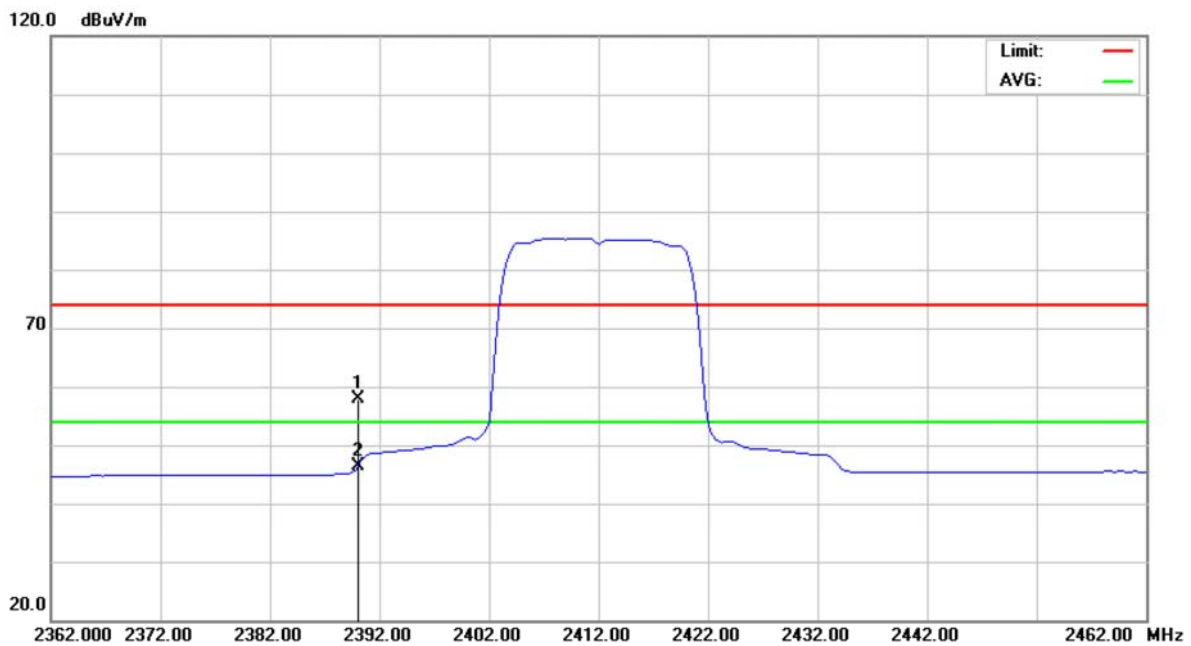


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	25.32	31.67	56.99	74.00	-17.01	peak	
2	*	2390.000	13.51	31.67	45.18	54.00	-8.82	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Horizontal

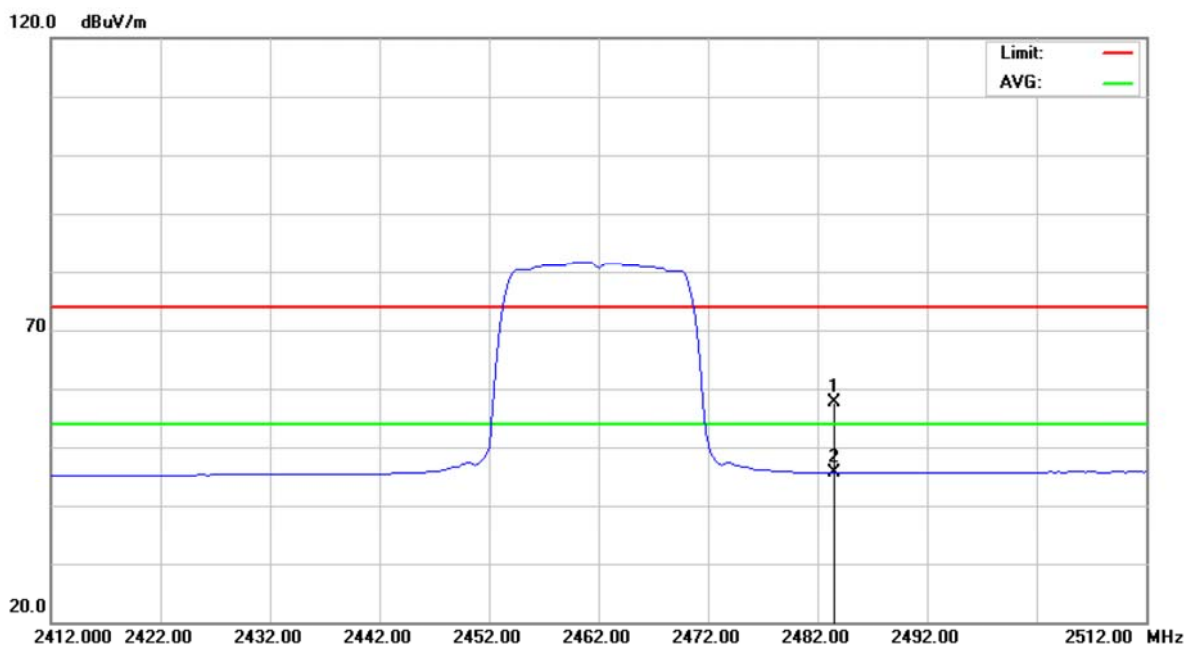


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	26.19	31.67	57.86	74.00	-16.14	peak	
2	*	2390.000	14.72	31.67	46.39	54.00	-7.61	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Vertical

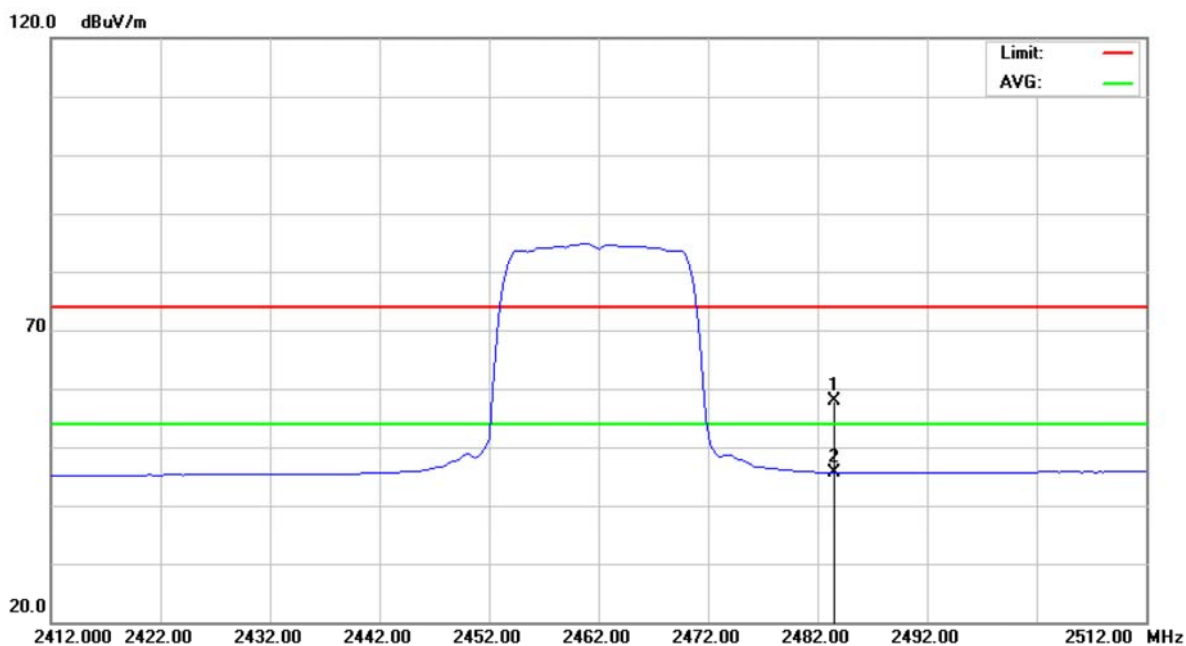


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	25.62	32.09	57.71	74.00	-16.29	peak	
2	*	2483.500	13.49	32.09	45.58	54.00	-8.42	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Horizontal

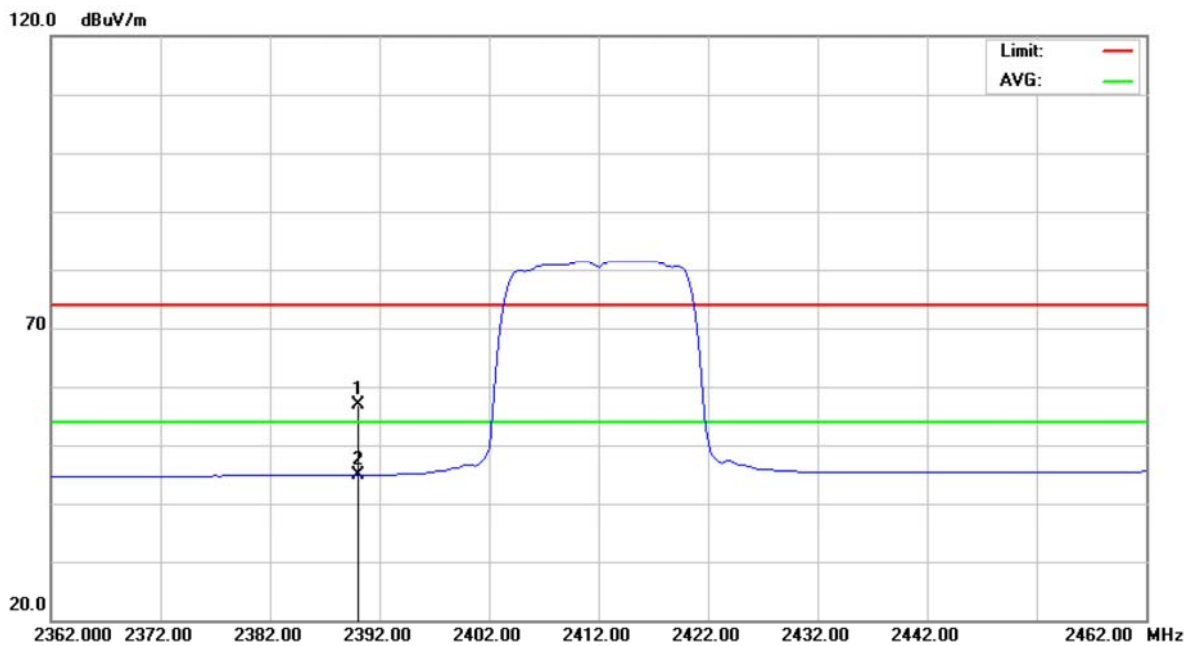


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	25.74	32.09	57.83	74.00	-16.17	peak	
2	*	2483.500	13.55	32.09	45.64	54.00	-8.36	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Vertical

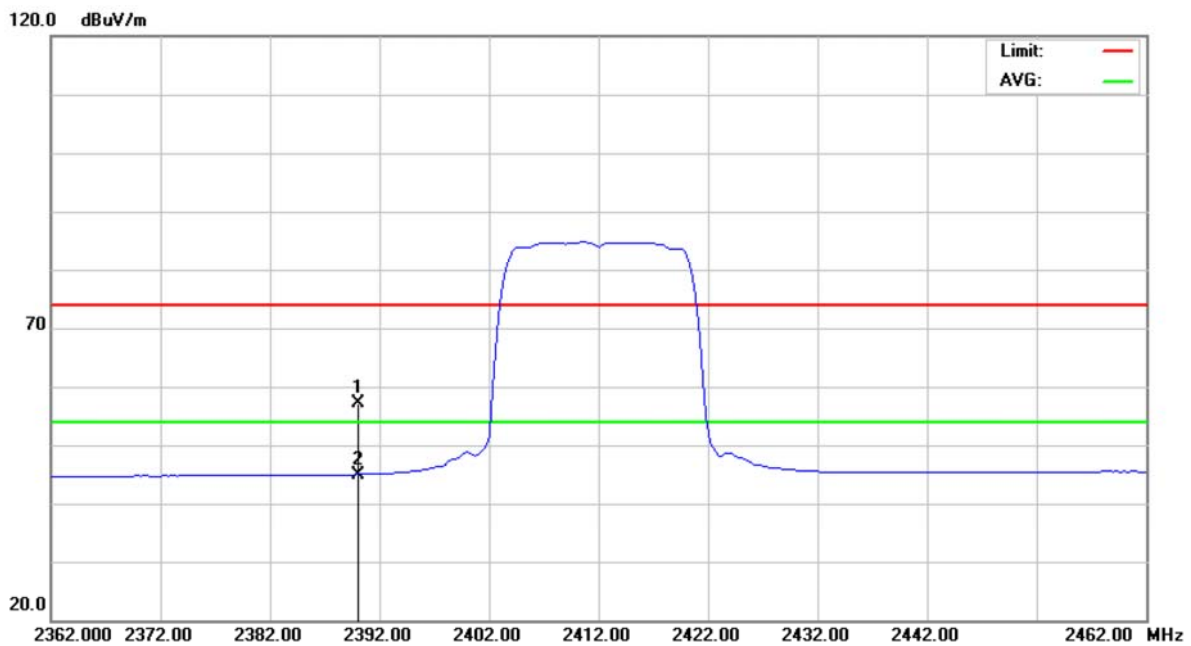


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	25.24	31.67	56.91	74.00	-17.09	peak	
2	*	2390.000	13.23	31.67	44.90	54.00	-9.10	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Horizontal

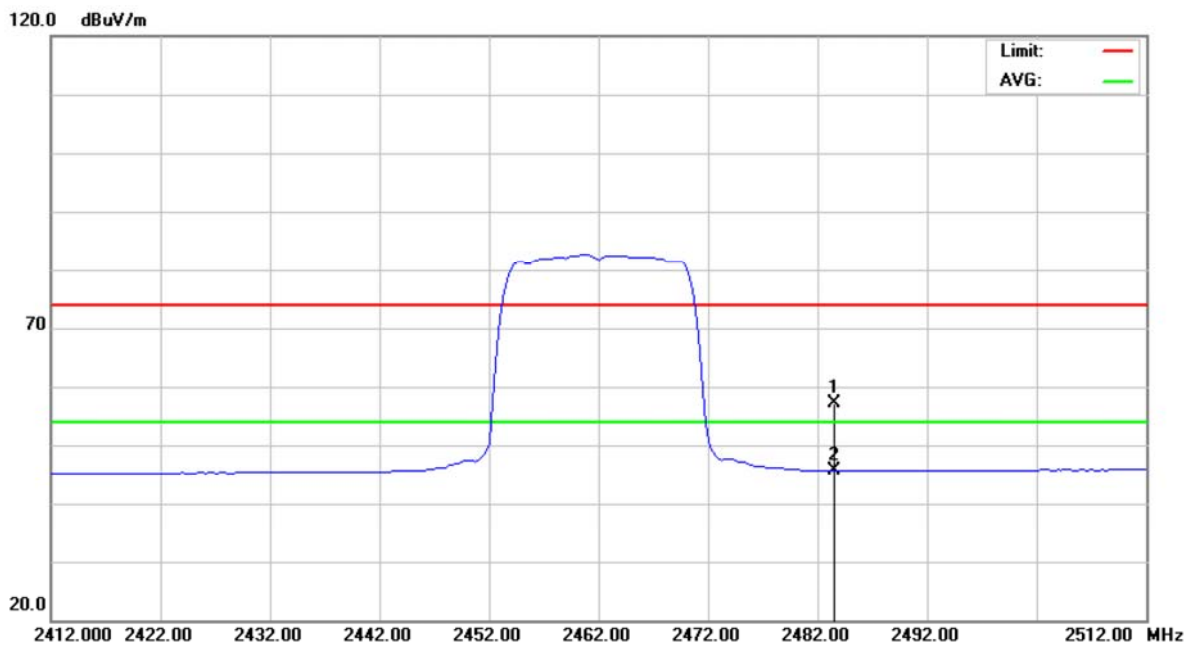


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	25.34	31.67	57.01	74.00	-16.99	peak	
2	*	2390.000	13.33	31.67	45.00	54.00	-9.00	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Vertical

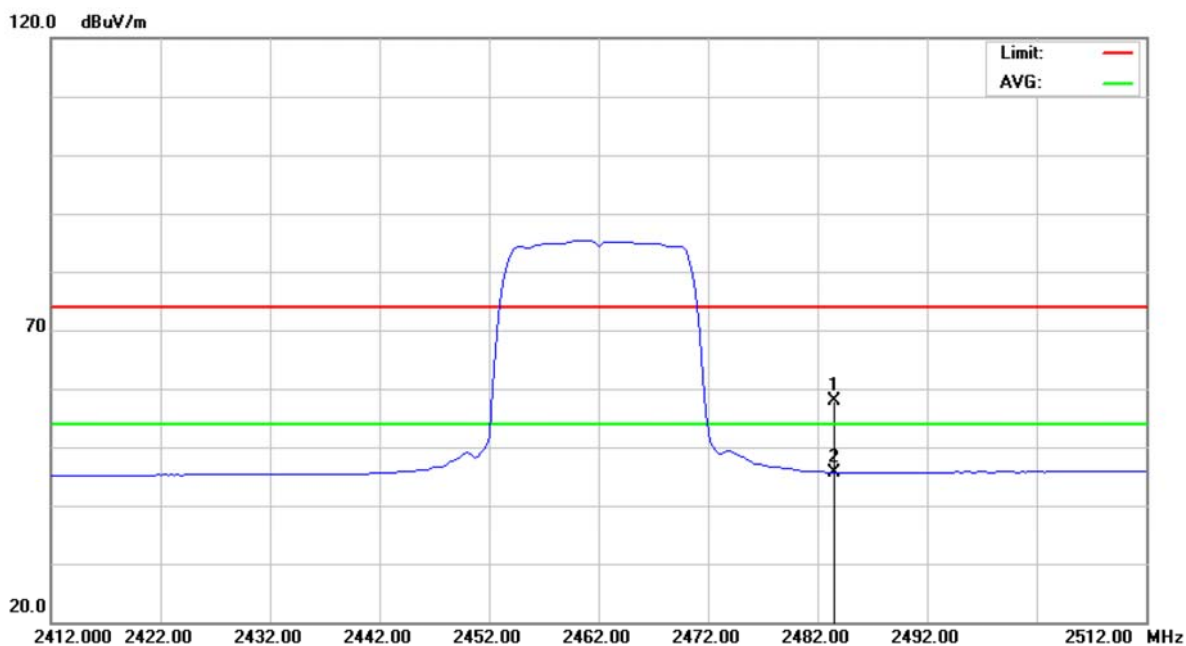


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	25.12	32.09	57.21	74.00	-16.79	peak	
2	*	2483.500	13.57	32.09	45.66	54.00	-8.34	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Horizontal

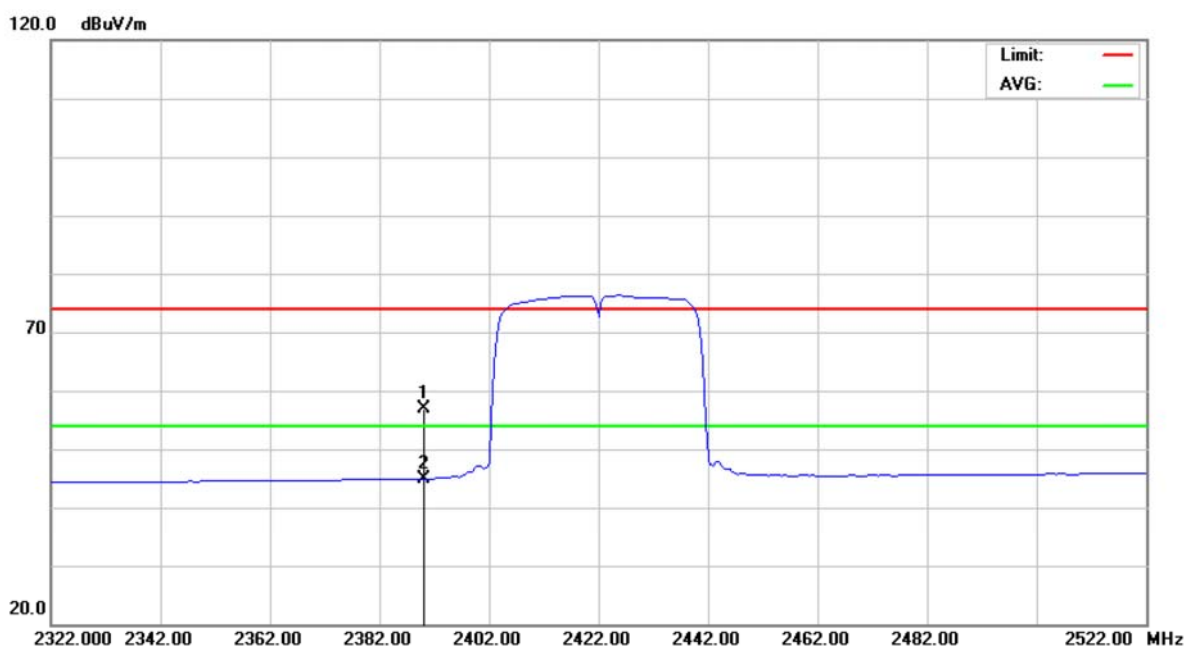


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	25.71	32.09	57.80	74.00	-16.20	peak	
2	*	2483.500	13.61	32.09	45.70	54.00	-8.30	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Vertical

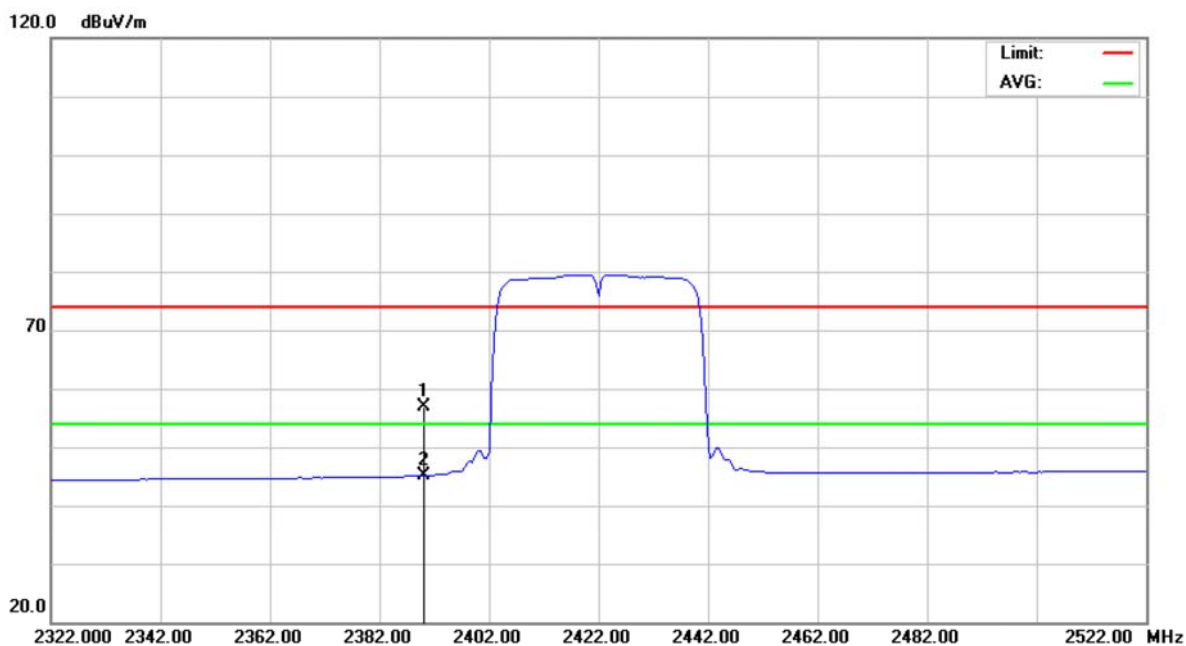


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	25.23	31.67	56.90	74.00	-17.10	peak	
2	*	2390.000	13.29	31.67	44.96	54.00	-9.04	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Horizontal

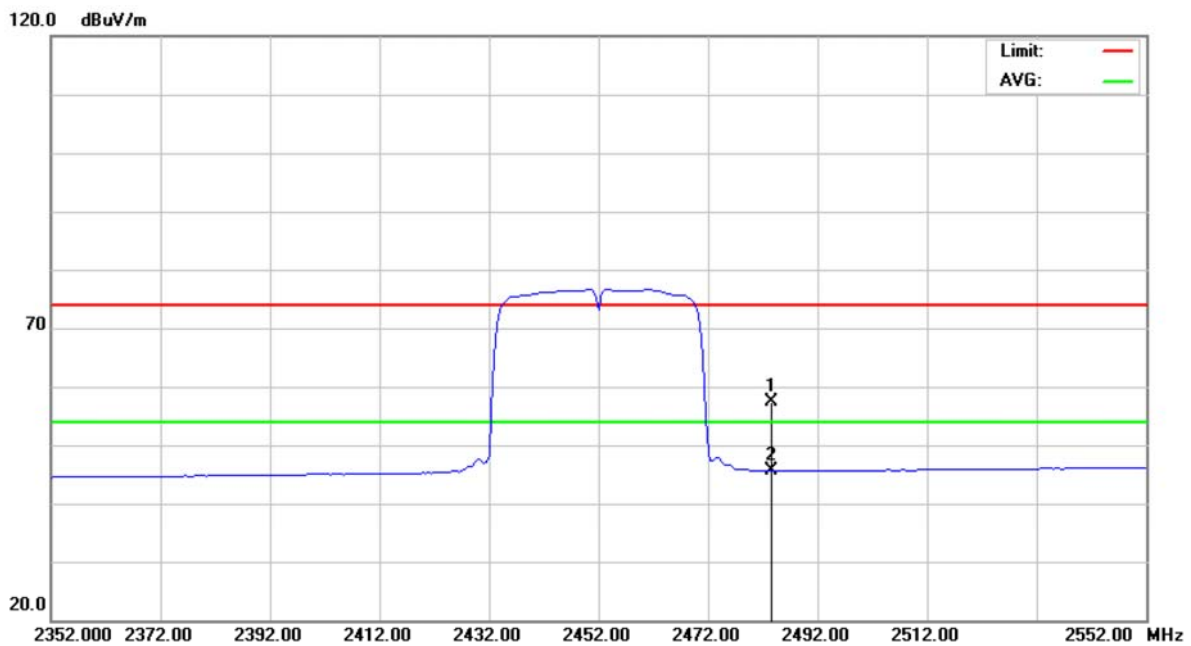


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	25.25	31.67	56.92	74.00	-17.08	peak	
2	*	2390.000	13.48	31.67	45.15	54.00	-8.85	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Vertical

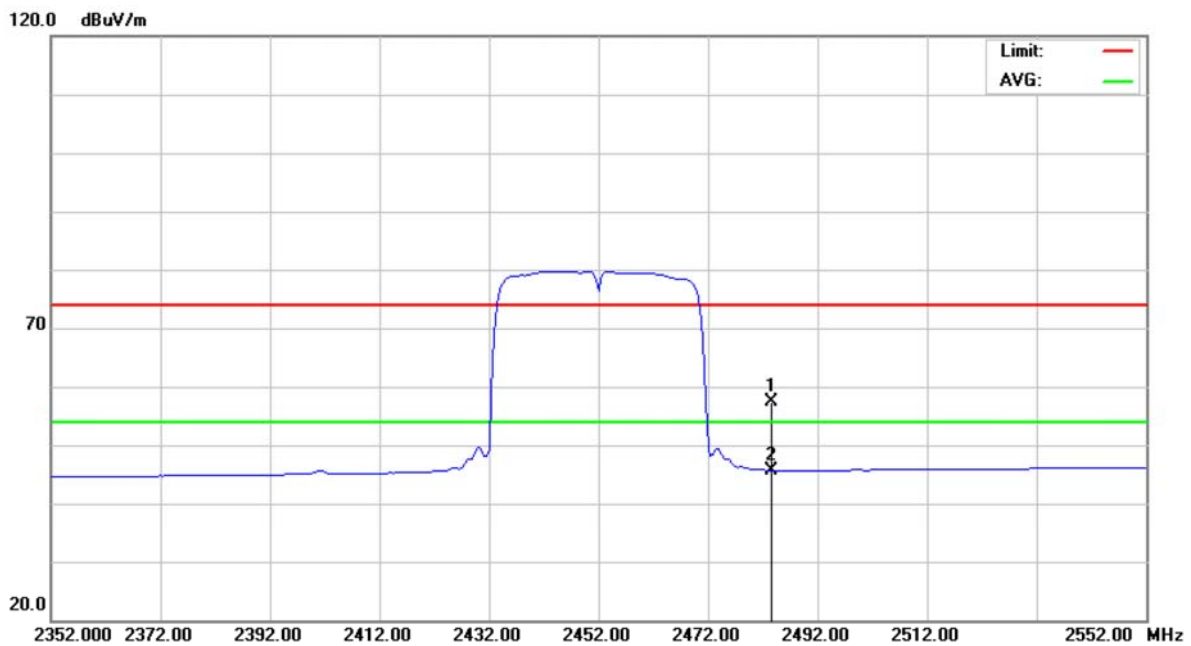


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	25.35	32.09	57.44	74.00	-16.56	peak	
2	*	2483.500	13.55	32.09	45.64	54.00	-8.36	AVG	



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	24°C	Relative Humidity	46%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	25.30	32.09	57.39	74.00	-16.61	peak	
2	*	2483.500	13.63	32.09	45.72	54.00	-8.28	AVG	



9 POWER SPECTRAL DENSITY

9.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Power Spectral Density	2400-2483.5	8 dBm (in any 3 kHz)

9.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

9.3 TEST PROCEDURES

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW=3 kHz, VBW=30 kHz, Sweep time = 500s.

9.4 TEST SETUP LAYOUT



9.5 DEVIATION FROM TEST STANDARD

No deviation

9.6 EUT OPERATING CONDITIONS

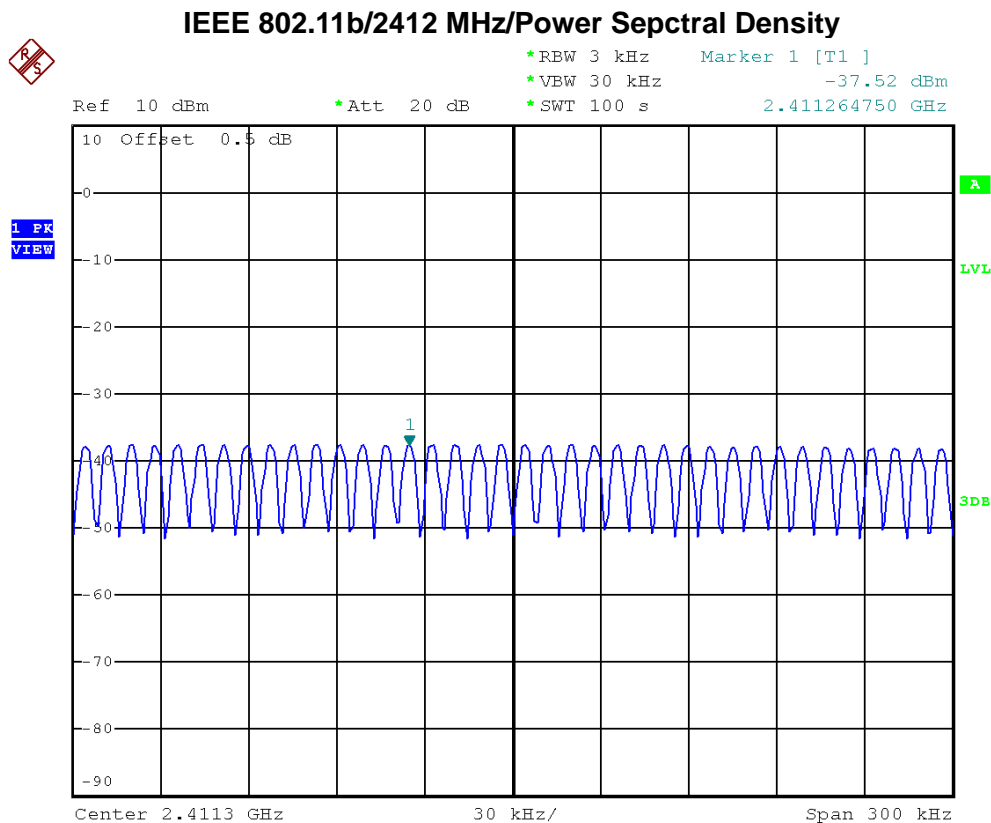
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.



9.7 TEST RESULTS

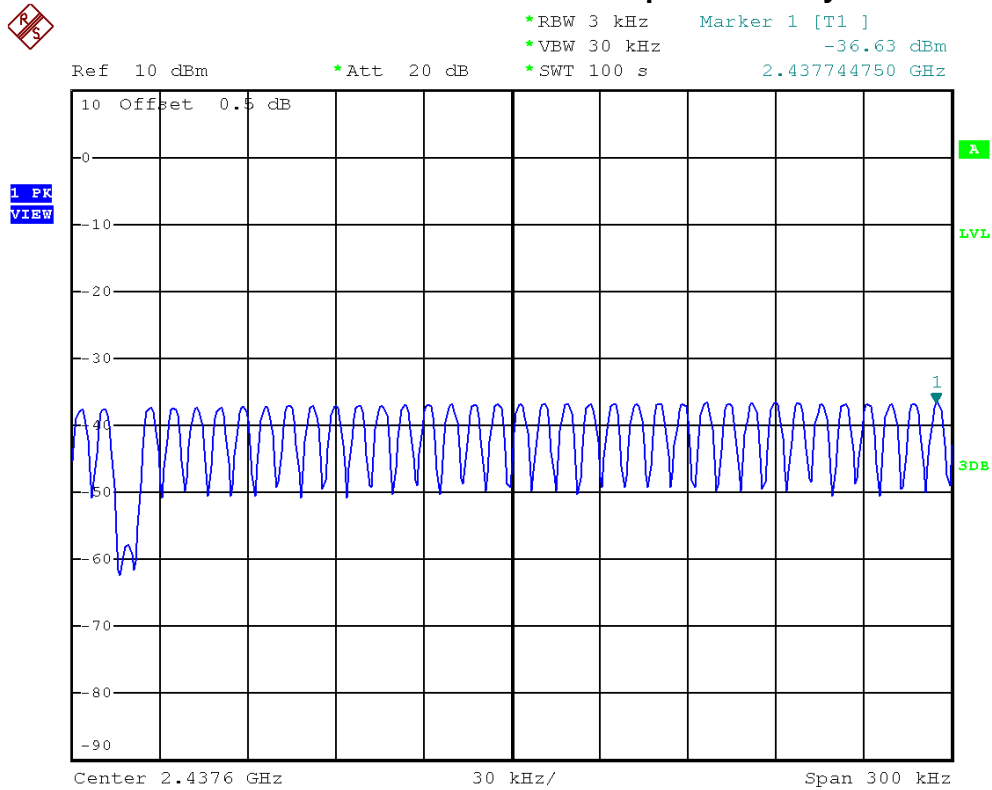
EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2412 MHz, 2437 MHz, 2462 MHz		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-37.52	8	PASS
2437 MHz	-36.63	8	PASS
2462 MHz	-35.07	8	PASS

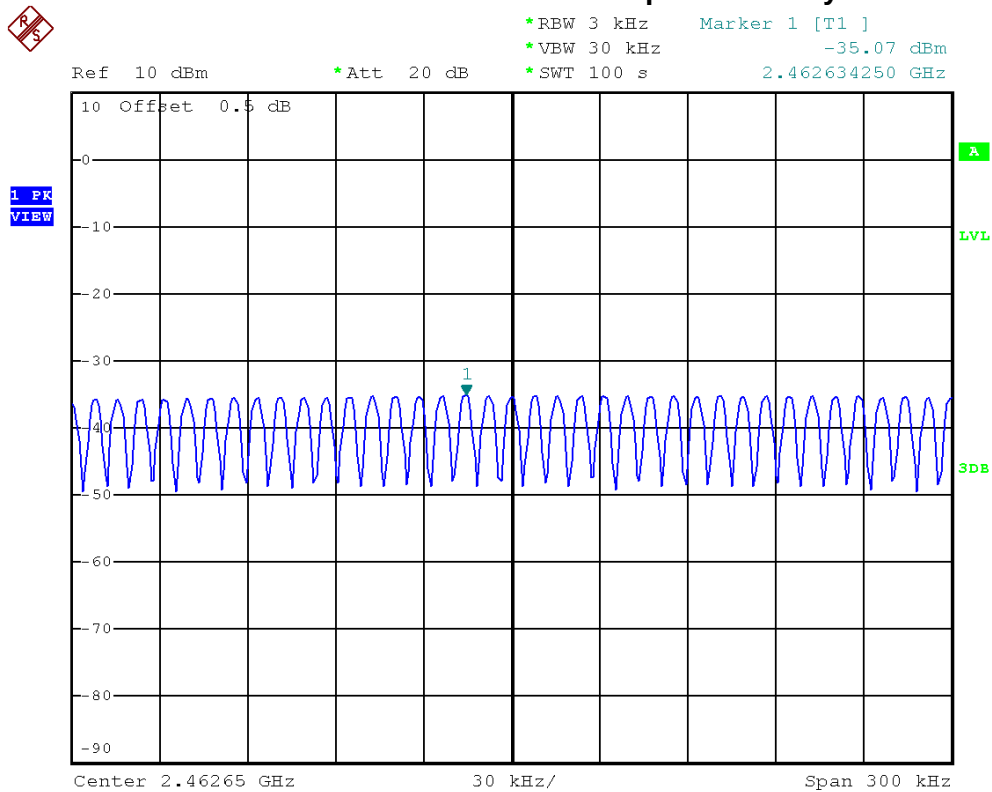




IEEE 802.11b/2437 MHz/Power Sepctral Density



IEEE 802.11b/2462 MHz/Power Sepctral Density

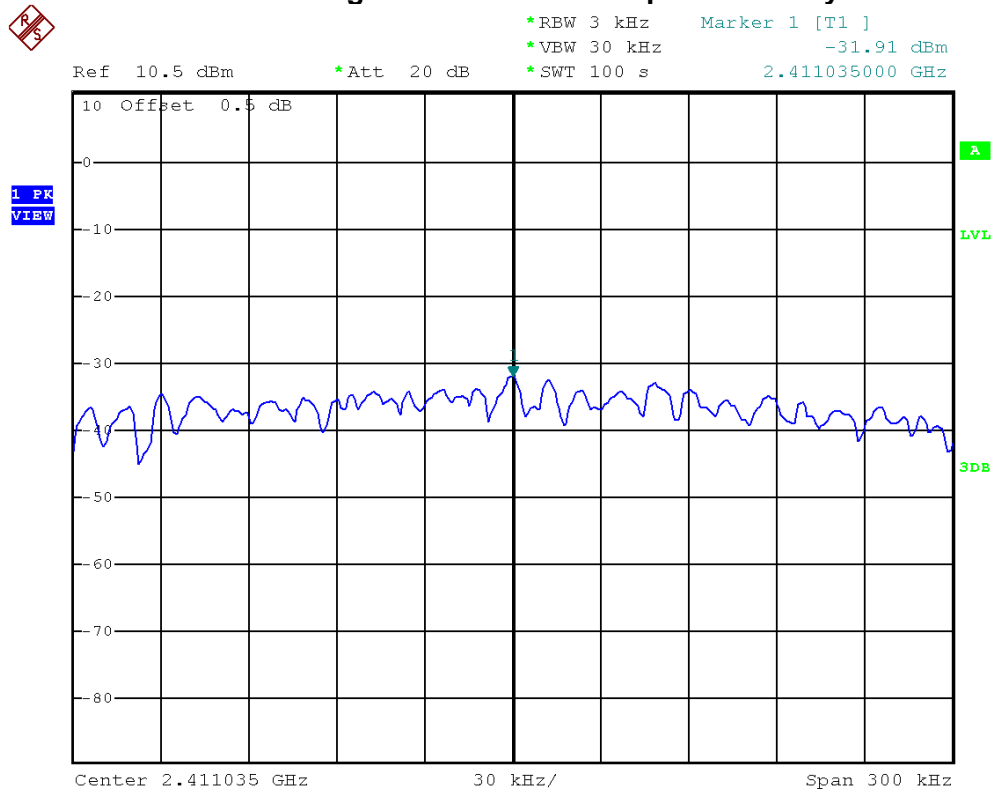




EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2412 MHz, 2437 MHz, 2462 MHz		

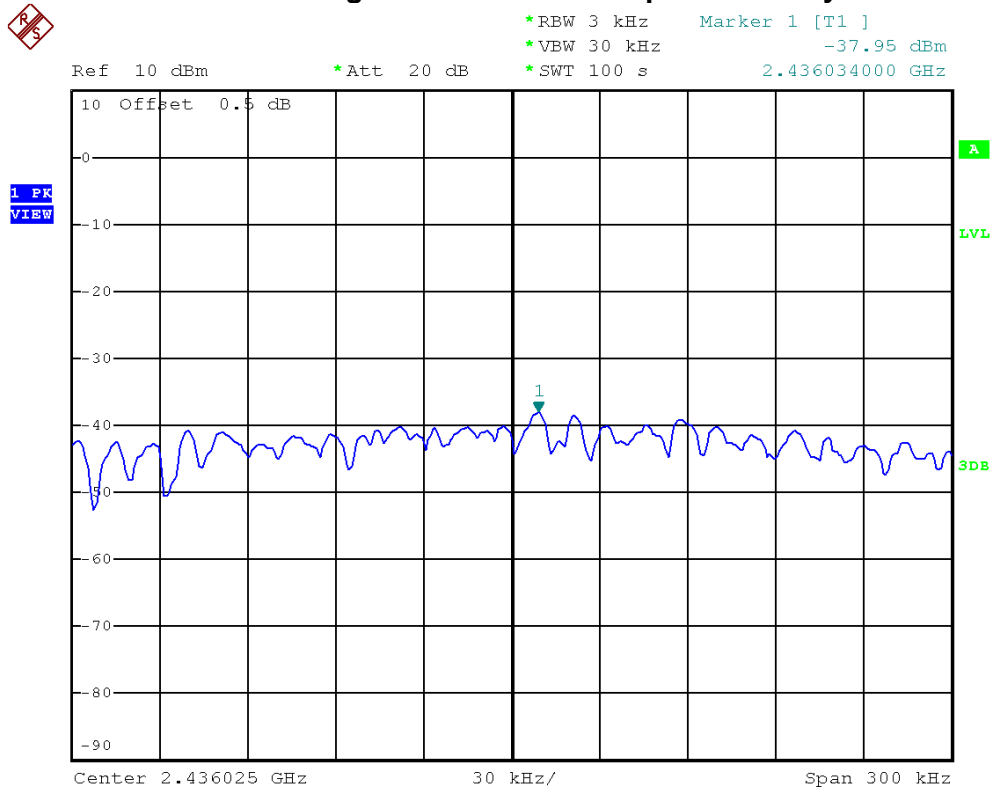
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-31.91	8	PASS
2437 MHz	-37.95	8	PASS
2462 MHz	-36.57	8	PASS

IEEE 802.11g/2412 MHz/Power Sepctral Density

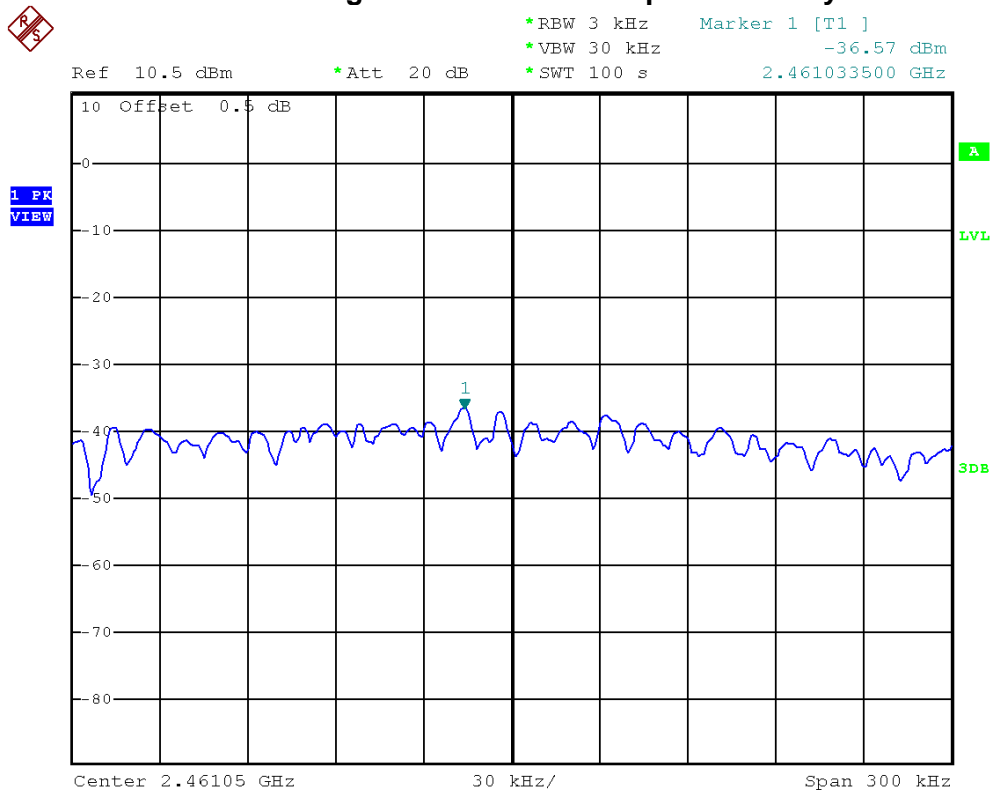




IEEE 802.11g/2437 MHz/Power Sepctral Density



IEEE 802.11g/2462 MHz/Power Sepctral Density

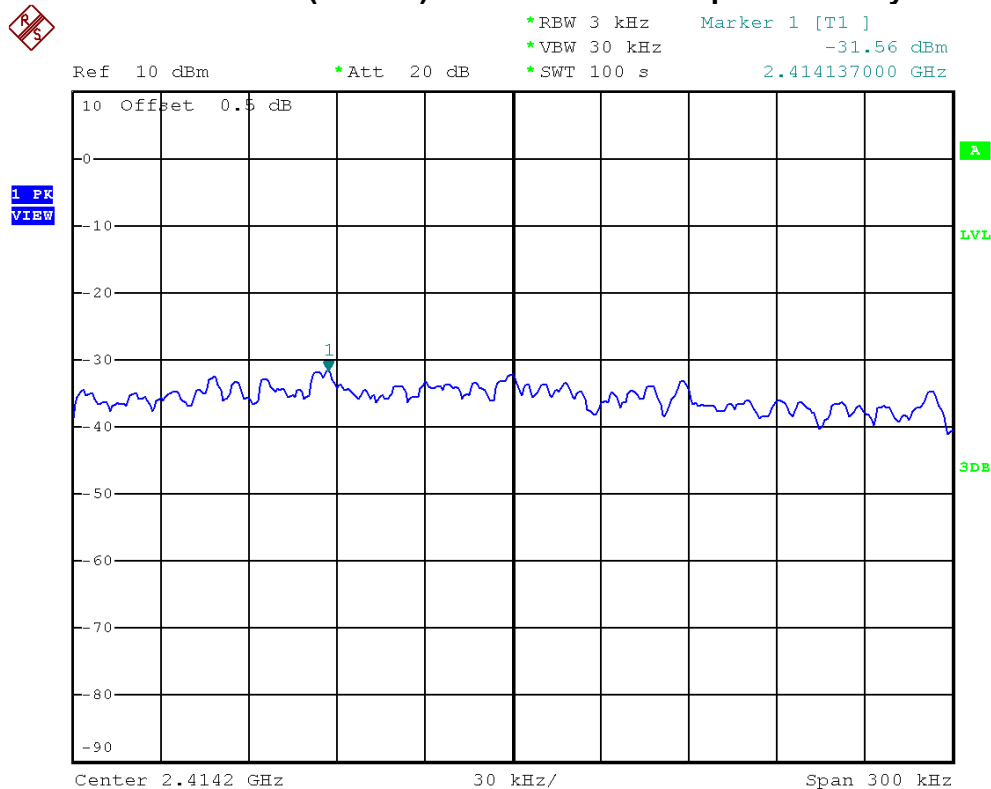




EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2412 MHz, 2437 MHz, 2462 MHz		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-31.56	8	PASS
2437 MHz	-30.70	8	PASS
2462 MHz	-35.93	8	PASS

IEEE 802.11n (20 MHz)/2412 MHz/Power Sepctral Density





IEEE 802.11n (20 MHz)/2437 MHz/Power Sepctral Density

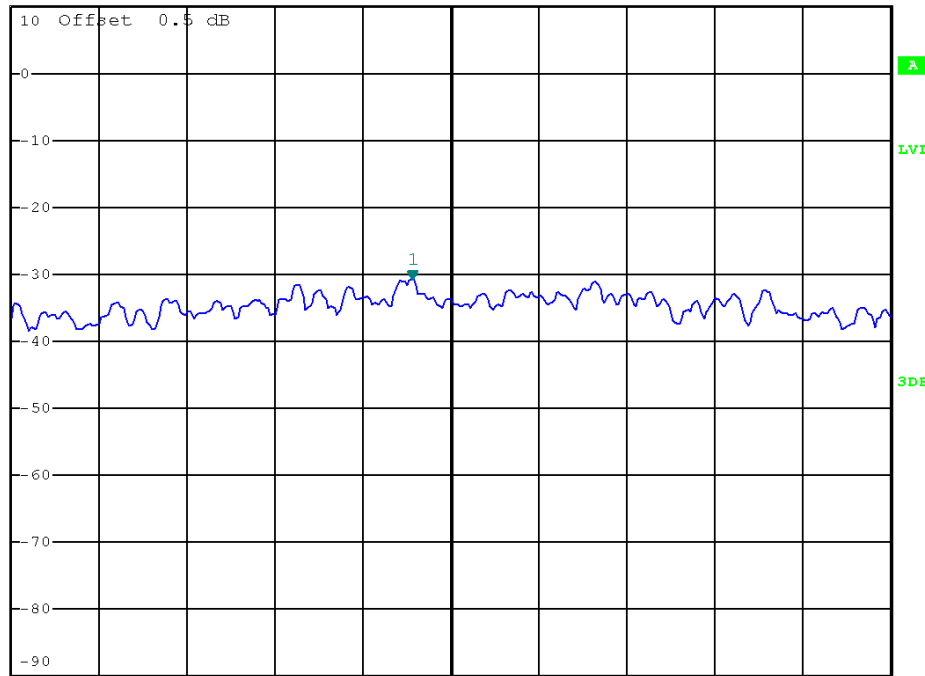


*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -30.70 dBm
*SWT 100 s 2.439136500 GHz

Ref 10 dBm

*Att 20 dB

1 PK
VIEW



Center 2.43915 GHz

30 kHz/

Span 300 kHz

IEEE 802.11n (20 MHz)/2462 MHz/Power Sepctral Density

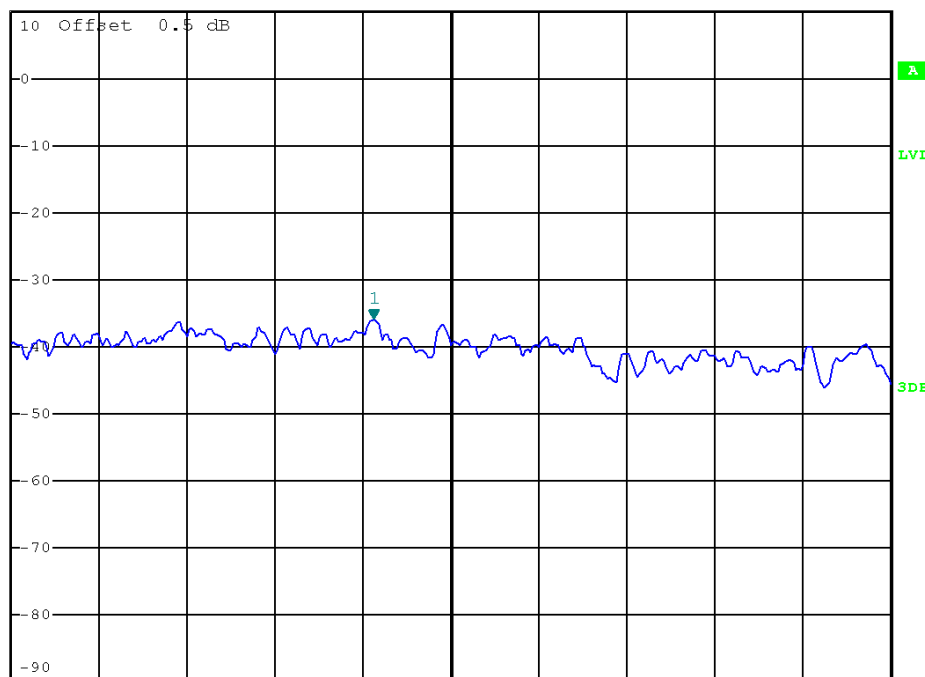


*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -35.93 dBm
*SWT 100 s 2.468573750 GHz

Ref 10 dBm

*Att 20 dB

1 PK
VIEW



Center 2.4686 GHz

30 kHz/

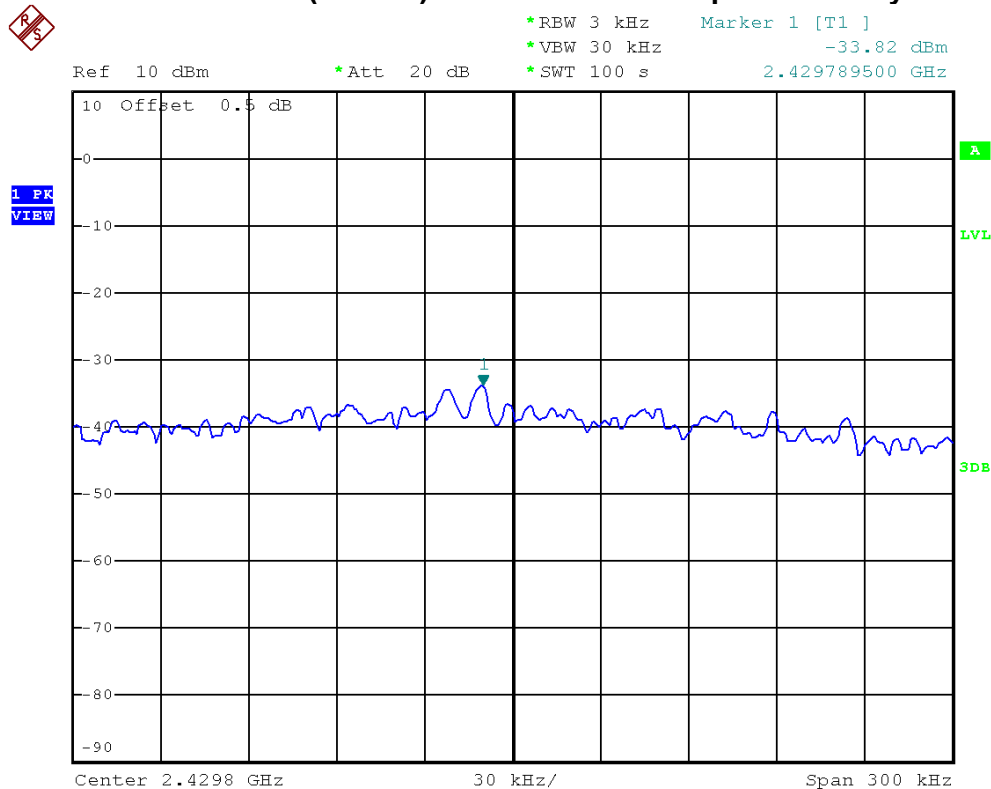
Span 300 kHz



EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2422 MHz, 2437 MHz, 2452 MHz		

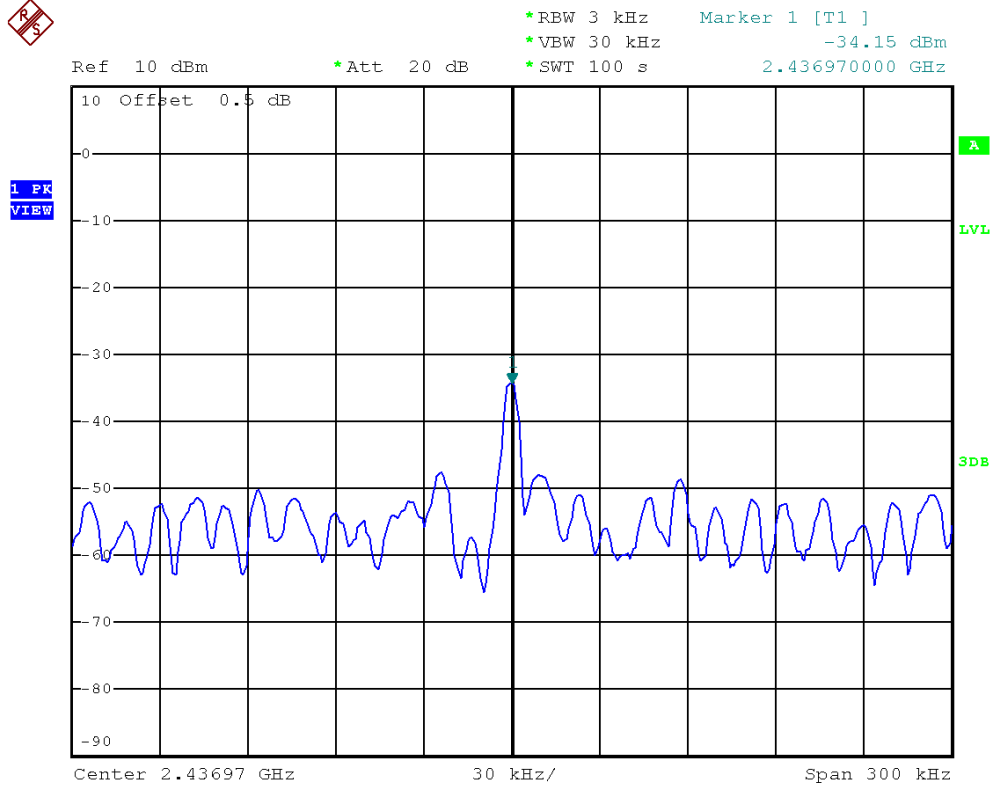
Frequency	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-33.82	8	PASS
2437 MHz	-34.15	8	PASS
2452 MHz	-35.37	8	PASS

IEEE 802.11n (40 MHz)/2422 MHz/Power Sepctral Density

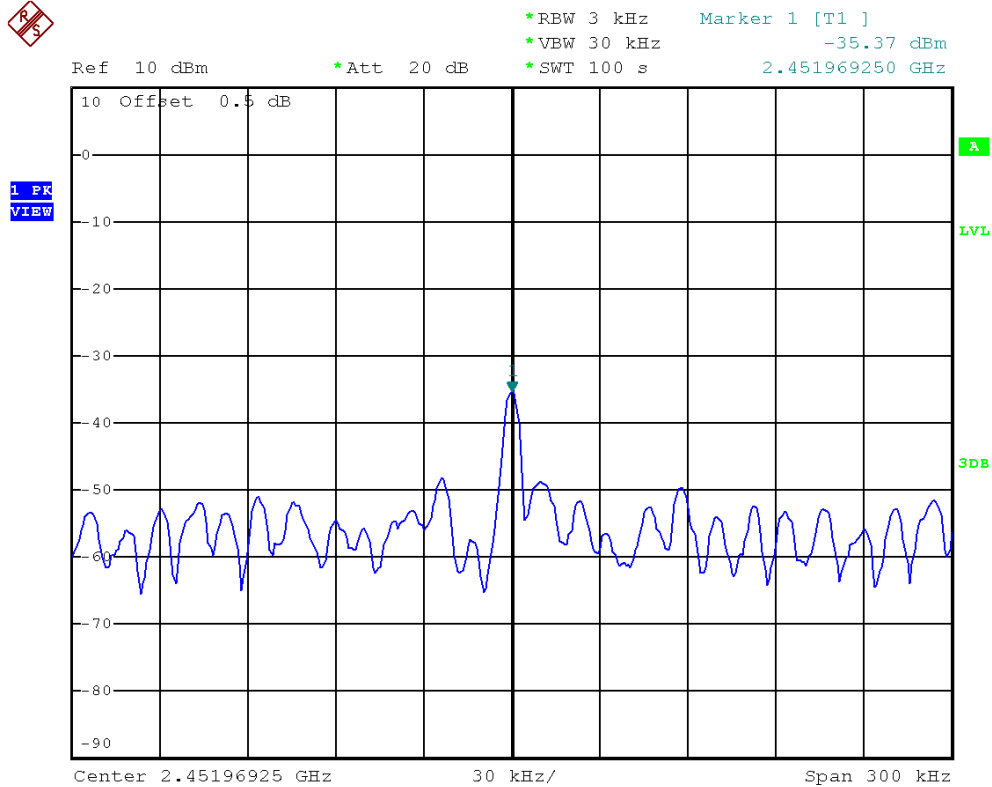




IEEE 802.11n (40 MHz)/2437 MHz/Power Sepctral Density



IEEE 802.11n (40 MHz)/2452 MHz/Power Sepctral Density





10 RF EXPOSURE COMPLIANCE

10.1 LIMIT

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

NOTE: f = frequency in MHz ; *Plane-wave equivalent power density.

10.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2495A	1128008	Aug. 15, 2014
2	Power Meter Sensor	Anritsu	MA2411B	1126001	Aug. 15, 2014

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

10.3 MPE CALCULATION METHOD

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d}$$

$$\text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

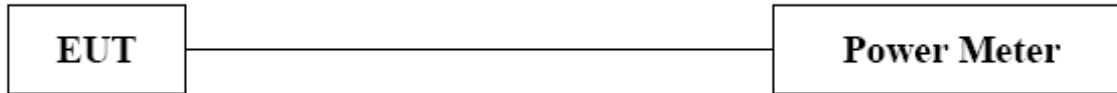
The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained



10.4 TEST SETUP LAYOUT



10.5 DEVIATION FROM TEST STANDARD

No deviation

10.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

**10.7 TEST RESULTS**

EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11b/2412 MHz, 2437 MHz, 2462 MHz		

Frequency	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Result
2412 MHz	2.79	1.9011	0.5500	1.1350	0.000429	1	PASS
2437 MHz	2.79	1.9011	0.6800	1.1695	0.000443	1	PASS
2462 MHz	2.79	1.9011	0.4200	1.1015	0.000417	1	PASS

**Neutron Engineering Inc.**

EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11g/2412 MHz, 2437 MHz, 2462 MHz		

Frequency	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Result
2412 MHz	2.79	1.9011	13.6600	23.2274	0.008789	1	PASS
2437 MHz	2.79	1.9011	5.9900	3.9719	0.001503	1	PASS
2462 MHz	2.79	1.9011	5.8500	3.8459	0.001455	1	PASS

**Neutron Engineering Inc.**

EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (20 MHz)/2412 MHz, 2437 MHz, 2462 MHz		

Frequency	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Result
2412 MHz	2.79	1.9907	13.3000	21.3796	0.008471	1	PASS
2437 MHz	2.79	1.9907	12.4800	17.7011	0.007014	1	PASS
2462 MHz	2.79	1.9907	4.3900	2.7479	0.001089	1	PASS

**Neutron Engineering Inc.**

EUT	Wi-Fi Handheld Microscope	Model Name	44313
Temperature	26°C	Relative Humidity	60%
Test Voltage	DC 4.5V		
Test Mode	IEEE 802.11n (40 MHz)/2422 MHz, 2437 MHz, 2452 MHz		

Frequency	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Result
2412 MHz	2.79	1.9907	9.6000	9.1201	0.003614	1	PASS
2437 MHz	2.79	1.9907	10.9200	12.3595	0.004897	1	PASS
2462 MHz	2.79	1.9907	2.4800	1.7701	0.000701	1	PASS