

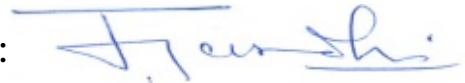
NCC RADIO TEST REPORT

Product name	Meitueve 美圖宜膚
Applicant	廈門美圖移動科技有限公司 Xiamen Meitu Mobile Technology Co.,Ltd.
Manufacture	廈門美圖移動科技有限公司 Xiamen Meitu Mobile Technology Co.,Ltd.
Rating(s)	DC12V from adapter
Trademark	美圖/meitu
Model and/or type reference	MS1901
Standard	LP0002:2018
Test Result	PASS

Date of receipt : 08-06-2019

Date of Issue : 08-19-2019

signature :



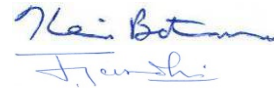
NCC RADIO TEST REPORT

Report Reference No...... : M80620J797-1

Compiled by (+ signature) Kevin Bothmann

Approved by (+ signature) Jay Gandhi

Date of issue..... : 2019-08-19



Applicant's name 廈門美圖移動科技有限公司
Xiamen Meitu Mobile Technology Co.,Ltd.

Address 廈門火炬高新區創業園創業大廈 112A
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Industrial Development Zone, Xiamen, Fujian, China.

Manufacture's Name 廈門美圖移動科技有限公司
Xiamen Meitu Mobile Technology Co.,Ltd.

Address 廈門火炬高新區創業園創業大廈 112A
Room 112A, Pioneer Building, Pioneer Park, Torch High-tech
Industrial Development Zone, Xiamen, Fujian, China.

Test specification:

Standard : LP0002:2018

Test procedure : EIA 603、ANSI、FCC/47 CFR/2.1046、2.1047、2.1049、2.1051、
2.1053 and 2.1055

Non-standard test method..... : N/A

Test item description

Product name : meitueve

Trademark : 美圖/meitu

Model and/or type reference : MS1901

Rating(s) : DC12V from adapter

Testing Laboratory information:

Testing Laboratory Name : Electro Magnetic Test, Inc.

Address : 1547 Plymouth Street, Mountain View, CA 94043

CAB Identifier Number : US0036

Tel : (650) 965-4000

Fax : (650) 965-3000

E-mail : jgandhi@emtlabs.com

Testing.....:

Date of receipt of test item..... : Aug. 06, 2019

Date (s) of performance of tests..... : Aug. 06~ Aug. 19, 2019

Date of Issue : Aug. 19, 2019

Test Result : **Pass**

GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Electro Magnetic Test, Inc., which is an independent testing and consulting firm. The test report is based on testing performed Electro Magnetic Test, Inc. personnel according to the measurement procedure described in the test specification given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced in any form unless done so in full.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Federal Government.

Electro Magnetic Test, Inc. is recognized by the following agencies for performing EMI/EMC testing:

COUNTRY	AGENCY	IDENTIFYING #
USA	Federal Communications Commission (FCC) (EMT's test site is recognized by the FCC)	Registration Number: 90576
USA, Canada, Taiwan, Australia/New Zealand, European Community	National Voluntary Lab Accreditation Program (NVLAP) (EMT is accredited by NVLAP. A copy of the NVLAP Scope Of Accreditation is available upon request.)	Lab Code: 200147-0
Canada	Industry Canada	File No.: IC 2804
Japan	Voluntary Control Council For Interference (VCCI)	A-0118
	Open Field Test Site "A"	-
	Mains Conducted Emissions Test Site "A"	-
	Telecom Conducted Emissions Test Site "A"	-
	3 Meter Semi-Anechoic Chamber Site "E"	-
	3 Meter Semi-Anechoic Chamber Site "E" (1GHz – 6GHz)	-
	Mains Conducted Emissions Test Site "E"	-
	Telecom Conducted Emissions Test Site "E"	-
Korea	Ministry of Information and Communication's Radio Research Laboratory (RRL) under the Asia Pacific Economic Cooperation (APEC) Mutual Recognition Arrangement (A copy of the Scope Of Accreditation is available upon request)	US0036
Taiwan	Bureau Of Standards, Metrology and Inspection (BSMI)	Reference Number: SL2-IN-E-1024
Australia / New Zealand	Australian Communications Authority (AUSTEL)	*

***THESE AGENCIES DO NOT ISSUE AN IDENTIFYING NUMBER TO TEST LABS.**

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

LP0002:2018			
Standard Section	Test Item	Judgment	Remark
4.7.3.4(2)	26 dB Emissions Bandwidth	PASS	None
4.7.3.1	Peak Transmit Power	PASS	None
4.7.3.1	Peak Power Spectral Density	PASS	None
4.7.4.5/2.3	AC Power Line Emissions	PASS	None
4.7.4/2.8	Radiated Emissions	PASS	None
4.7.4/2.8	Band Edge	PASS	None

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) Reference to the KDB-789033 and KDB-662911.

1.1 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	1.38dB
2	Radiated Emission Test	3.17dB
3	RF power,conducted	0.16dB
4	Spurious emissions,conducted	0.21dB
5	All emissions,radiated(<1G)	4.68dB
6	All emissions,radiated(>1G)	4.89dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	meitueve	
Trade Name	美圖/meitu	
Model Name	MS1901	
Serial Model Name	N/A	
Product Description	The EUT is a meitueve	
	Operation Frequency:	5.18GHz-5.24GHz
	Modulation Type:	IEEE for 802.11a: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE for 802.11n: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE for 802.11ac:OFDM (QPSK/BPSK/16QAM/64QAM/256 QAM)
	Number Of Channel	Please see Note 2.
	Antenna Designation:	FPCB Antenna
	Antenna Gain(Peak)	2.0dBi
	Output Power:	802.11a: 14.17dBm 802.11n 20: 13.12dBm 802.11ac 20: 11.99dBm 802.11n 40: 12.53dBm 802.11ac 40: 11.76dBm 802.11ac 80: 11.34dBm
Channel List	Please refer to the Note 2.	
Power Rating	DC12V from adapter	
Adapter Manufacturer /Model No.	Model: CYSE60-120500 I/P: AC100-240V, 50/60Hz, 1.5A O/P: DC12V, 5.0A	
Connecting I/O Port(s)	Please refer to the User's Manual	
Products Covered	N/A	
EUT Modification(s)	N/A	
Model difference	N/A	

Note:

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

Channel List							
802.11a/n/ac (20MHz) (5.15-5.25GHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	44	5220	48	5240
38	5190	42	5210	46	5230	-	-
802.11n/ac (40MHz) (5.15-5.25GHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	42	5210	46	5230	-	-
40	5200	44	5220	-	-	-	-
802.11ac (80MHz) (5.15-5.25GHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	-	-	-	-	-	-

Ant	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1#	東莞市創捷電子有限公司	MX2400G-113B-103LX	FPCB antenna	N/A	2.0 dBi	Antenna 1
2#	東莞市創捷電子有限公司	MX2400G-113B-103LX	FPCB antenna	N/A	2.0 dBi	Antenna 2

ANT 1(ANT 2) Represent the value of antenna 1 and 2, ANT 2 is RX only, the worst data is Antenna 1(TX), only shown Antenna 1(TX) in report.

2.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	802.11a : All Rate
Mode 2	802.11n(20/40) : All Rate
Mode 3	802.11ac(20/40) : All Rate
Mode 4	802.11ac(80) : All Rate
Mode 5	TX Mode
Mode 6	RX Mode

For Conducted Emission	
Final Test Mode	Description
Mode 5	TX Mode (802.11a CH48 worst case)

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11a
Mode 2	802.11n(20/40)
Mode 4	802.11ac(80)
Mode 5	RX Mode

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

2.3 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 power parameters.

Test software Version	Test program: QRCT		
Frequency	5180 MHz	5200 MHz	5240 MHz
Frequency	5190 MHz	5230 MHz	-
Frequency	5210 MHz		

2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

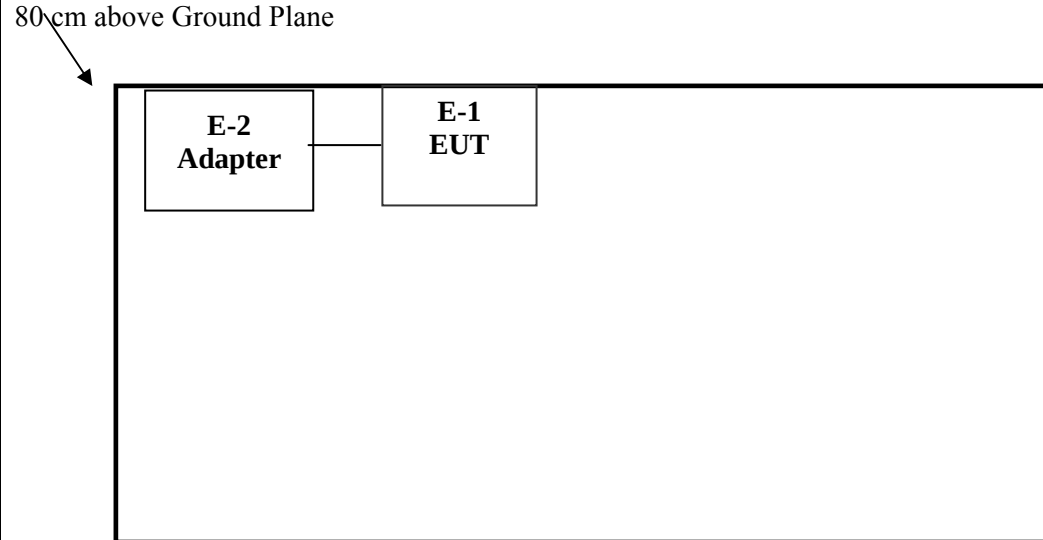
Block diagram of EUT configuration

CONDUCTED EMISSION

Test mode: mode 5

Non-Conductive Table

80 cm above Ground Plane



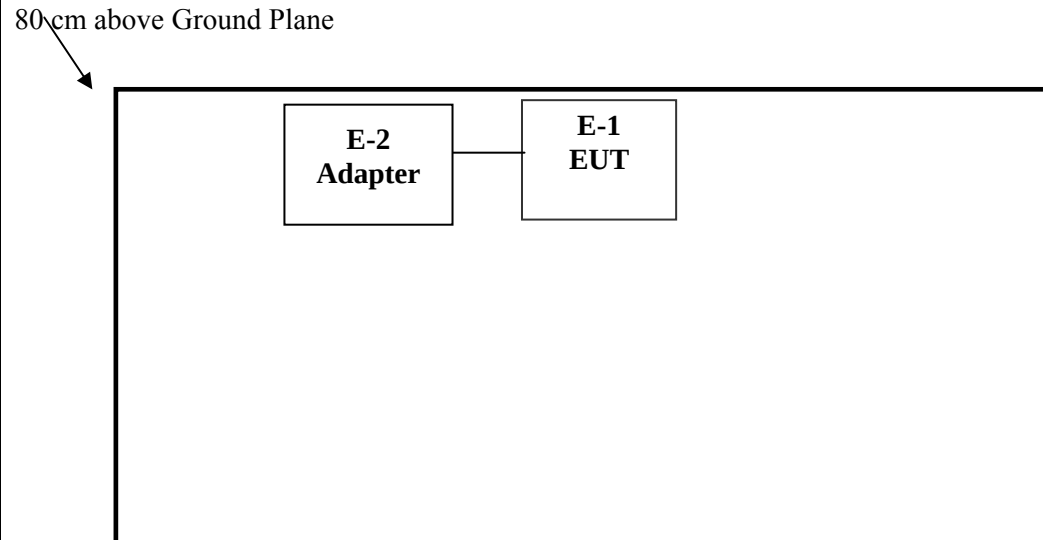
Block diagram of EUT configuration

RADIATED EMISSION

Test mode: mode 1, 2, 3 ,4, 5

Non-Conductive Table

80 cm above Ground Plane



2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	meitueve	美圖/meitu	MS1901	N/A	N/A	EUT
E-2	Adapter	Jiangsu Chenyang Electron Co., Ltd.	CYSE60-120500	N/A	N/A	EUT

Item	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” means “shielded” or “with ferrite core”; “NO” means “unshielded” or “without ferrite core”

EQUIPMENTS LIST FOR ALL TEST ITEMS

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. CYCLE
Spectrum Analyzer	Hewlett Packard	8566B	3013A07296	April 29, 2019	1 Year
RF Preselector	Hewlett Packard	85685A	3010A01157	April 29, 2019	1 Year
Quasi-Peak Adapter	Hewlett Packard	85650	2521A00584	April 29, 2019	1 Year
Preamplifier	Com Power	PA-102	1482	April 29, 2019	1 Year
RF Attenuator	Mini-Circuits	CAT-10	Asset #1000	December 8, 2018	1 Year
LISN	Com Power	LI-200	12012	September 10, 2018	1 Year
LISN	Com Power	LI-200	12214	September 10, 2018	1 Year
LISN	Com Power	LI-200	1767	September 10, 2018	1 Year
LISN	Com Power	LI-200	1768	September 10, 2018	1 Year
Biconical Antenna	Com Power	AB-100	01557	December 29, 2018	1 Year
Log Periodic Antenna	Com Power	AL-100	16037	December 22, 2018	1 Year
Horn Antenna	Com Power	AHA-118	711054	December 22, 2018	1 Year
Antenna Mast	Com Power	AM-400	N/A	N/A	N/A
Turntable	Com Power	TT-100	N/A	N/A	N/A
Computer	Dell, Inc.	DHS	DNSV641	N/A	N/A
Printer	Hewlett Packard	C8124A	CN39B2234T	N/A	N/A
Plotter	Hewlett Packard	7470A	2308A96499	N/A	N/A

EMI Test Equipment (Continued)

EQUIPMENT TYPE	MANU-FACT URER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. CYCLE
EMI Receiver	Rohde & Schwarz	ESU40	100127	June 12, 2019	1 Year
BiConiLog Antenna	ETS-Lindgren	3142D	00102183	August 14, 2019	1 Year
Horn Antenna	ETS-Lindgren	3117	00109294	May 6, 2019	1 Year
Preamplifier	Rohde & Schwarz	TS-PR18	100056	June 12, 2019	1 Year
Antenna Mast	ETS-Lindgren	2175	00095727	N/A	N/A
Turntable	ETS-Lindgren	2187-3.0	00118231	N/A	N/A
Computer	Acer	Aspire 8930	85100050123	N/A	N/A
Multi-Function Controller	ETS-Lindgren	2090	00102270	N/A	N/A
Loop Antenna	ARA	PLA-1030/B	1029	May 19, 2019	1 Year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150kHz-30MHz)

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

0.15 -0.5			66 - 56 *	56 - 46 *	Section 15.407 (b)
0.50 -5.0			56.00	46.00	
5.0 -30.0			60.00	50.00	

Note:

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

The following table is the setting of the receiver

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

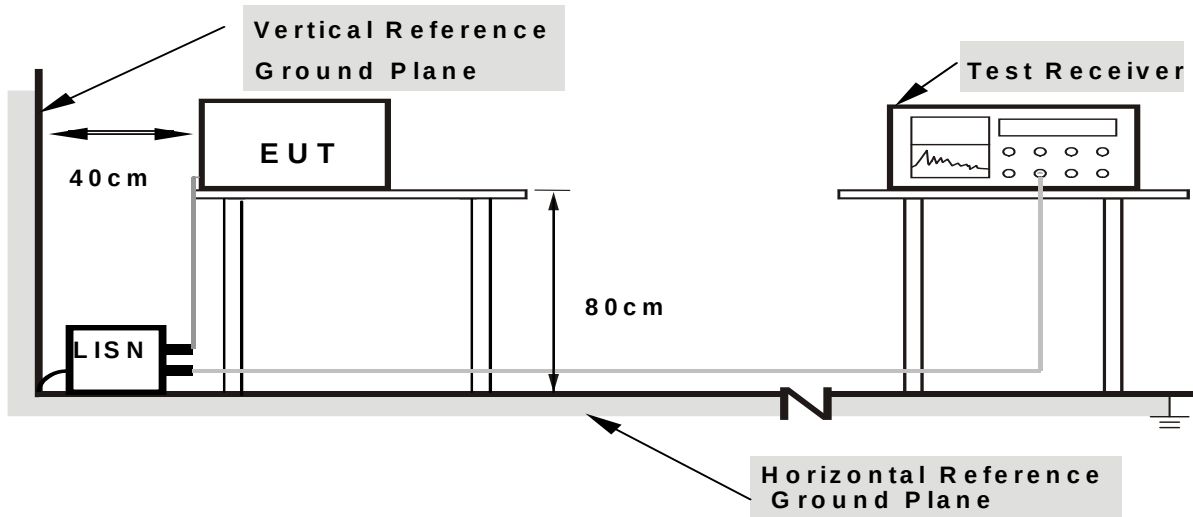
3.1.2 TEST PROCEDURE

- The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP

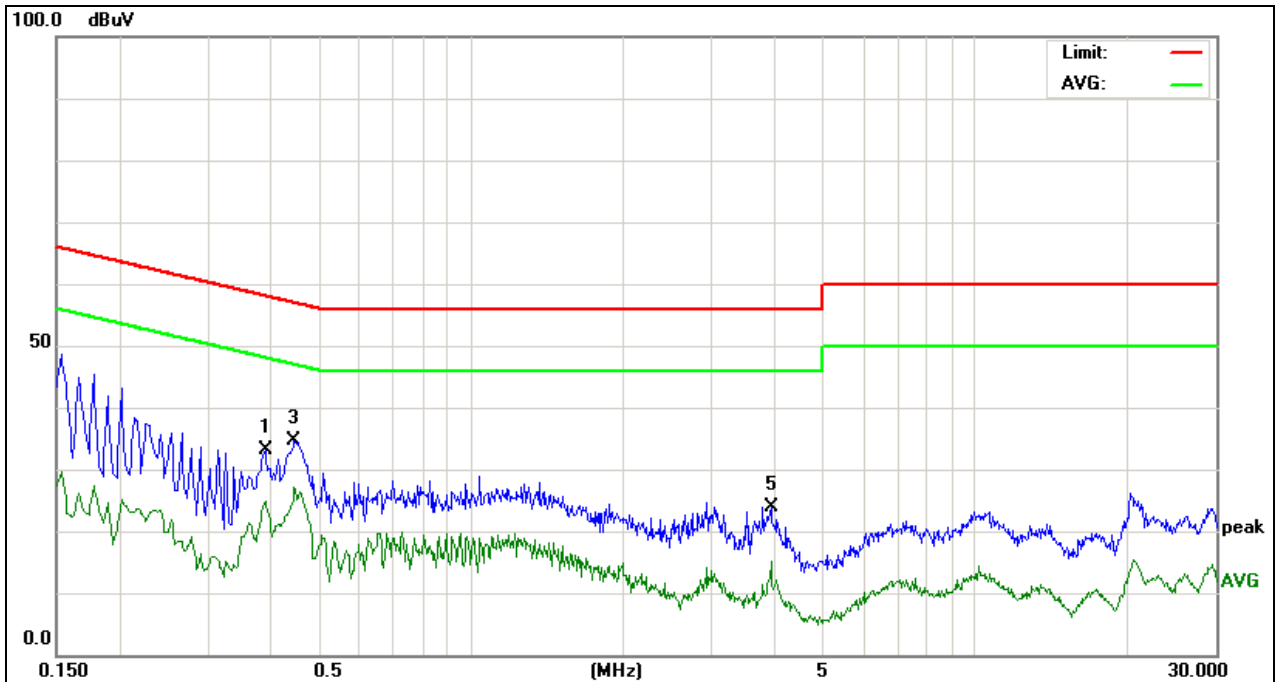


Note: 1.Support units were connected to second LISN.

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

3.1.5 TEST RESULTS

EUT :	meitueve	Model Name. :	MS1901
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2019-08-15
Test Mode :	TX(802.11a CH48 worst case)	Phase :	L
Test Voltage :	DC 12V from adapter		

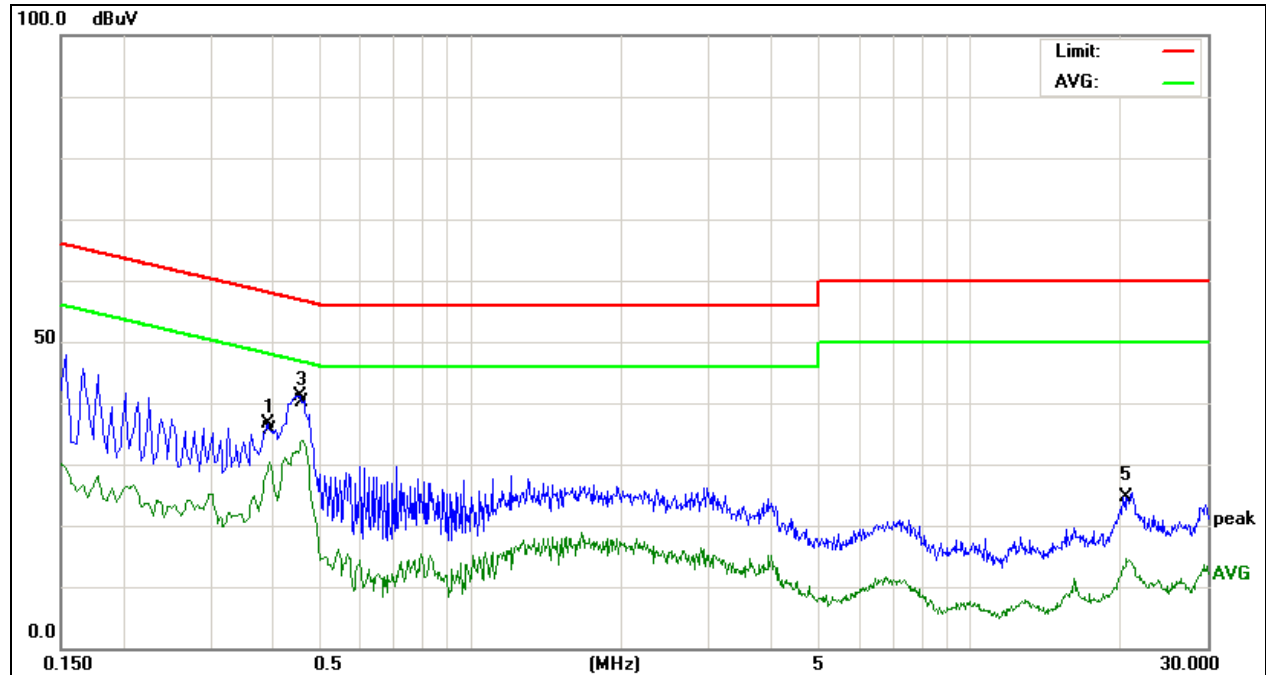


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss + Pulse limit.
3. '*' means the worst case

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.3899	23.02	10.13	33.15	58.06	-24.91	peak
2		0.3899	14.65	10.13	24.78	48.06	-23.28	AVG
3		0.4460	24.44	10.07	34.51	56.95	-22.44	peak
4	*	0.4460	17.16	10.07	27.23	46.95	-19.72	AVG
5		3.9260	13.89	10.05	23.94	56.00	-32.06	peak
6		3.9260	5.03	10.05	15.08	46.00	-30.92	AVG

EUT :	meitueve	Model Name. :	MS1901
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2019-08-15
Test Mode :	TX(802.11a CH48 worst case)	Phase :	N
Test Voltage :	DC 12V from adapter		



Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss + Pulse limit.
3. '*' means the worst case

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.3940	25.55	10.13	35.68	57.98	-22.30	peak
2		0.3940	20.32	10.13	30.45	47.98	-17.53	AVG
3		0.4580	29.99	10.06	40.05	56.73	-16.68	peak
4	*	0.4580	23.94	10.06	34.00	46.73	-12.73	AVG
5		20.6500	13.45	11.11	24.56	60.00	-35.44	peak
6		20.6500	3.46	11.11	14.57	50.00	-35.43	AVG

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

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

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

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

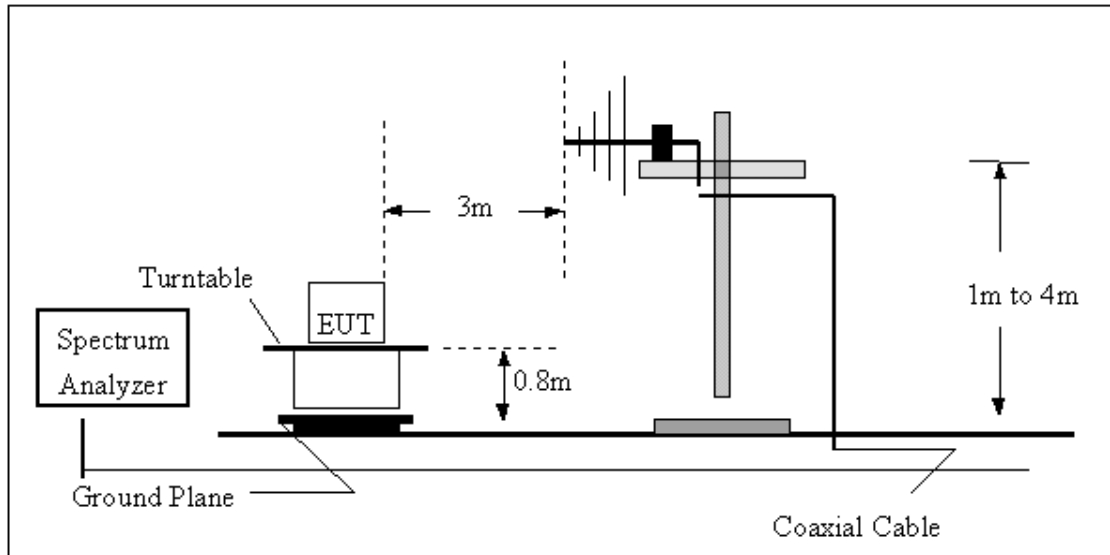
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

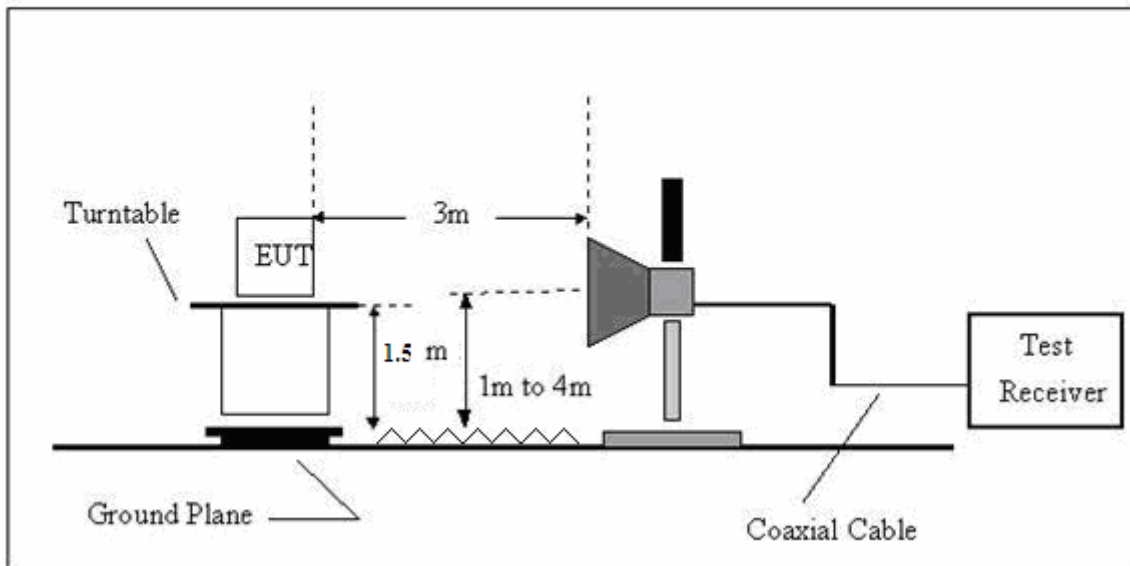
- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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 1#re 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.

3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz

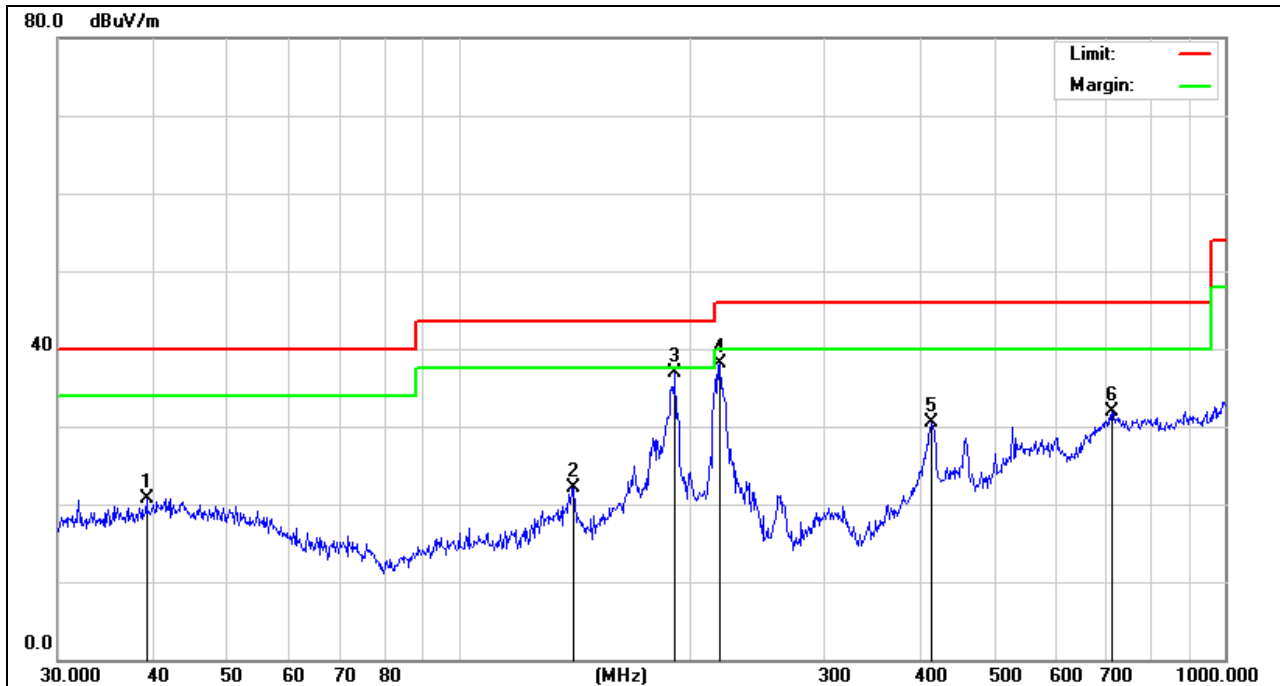


The field strength is calculated by adding the Antenna Factor, Cable Loss & Pre-amplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-amplifier Factor}$$

3.2.4 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	TX 802.11a(20)	Polarization :	Horizontal
Test Power :	DC 12V from adapter		

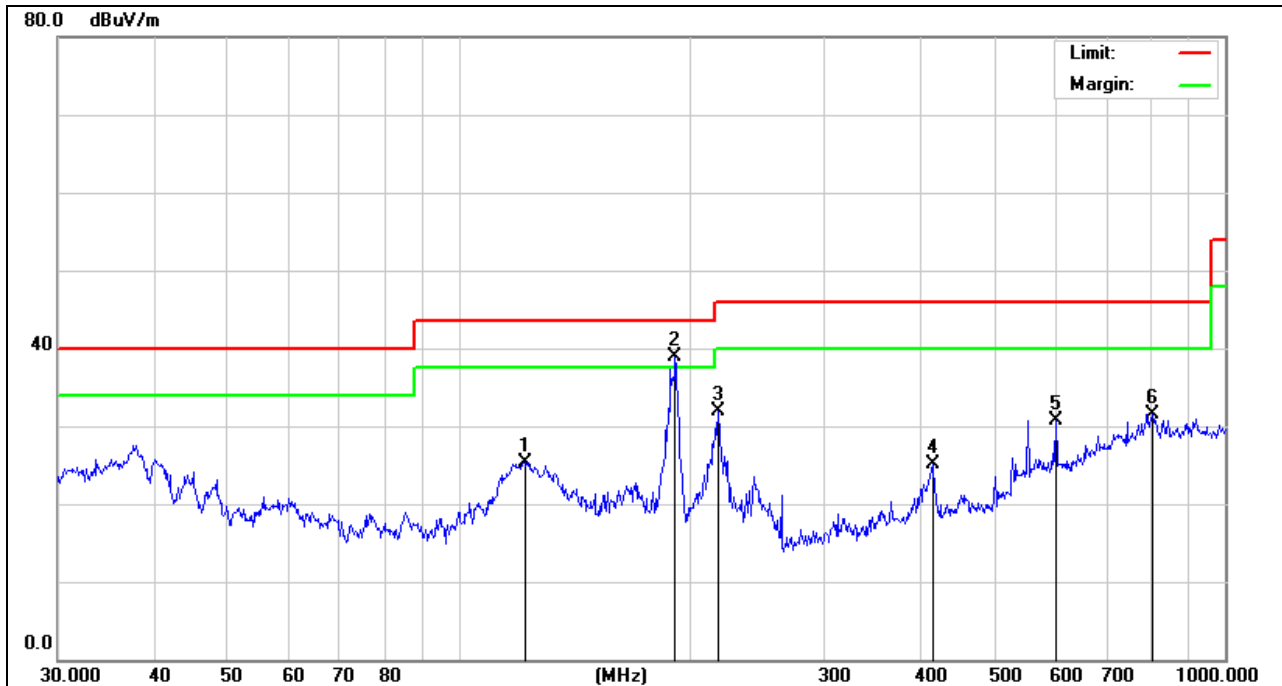


Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		39.1616	22.99	-2.27	20.72	40.00	-19.28	peak
2		141.3298	29.14	-6.94	22.20	43.50	-21.30	peak
3	*	191.7450	44.30	-7.49	36.81	43.50	-6.69	peak
4		219.0753	44.92	-6.85	38.07	46.00	-7.93	peak
5		414.7223	32.29	-1.84	30.45	46.00	-15.55	peak
6		711.6734	24.66	7.20	31.86	46.00	-14.14	peak

EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	TX 802.11a(20)	Polarization :	Vertical
Test Power :	DC 12V from adapter		

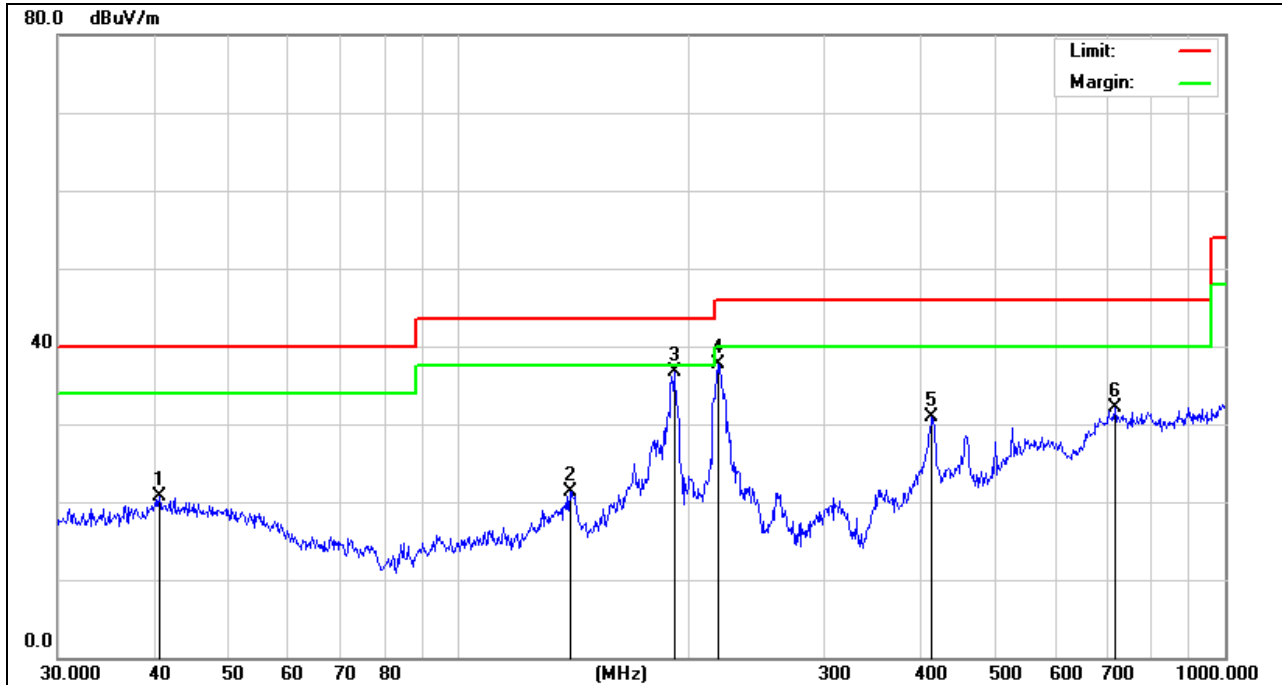


Remark:

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		121.9755	34.73	-9.33	25.40	43.50	-18.10	peak
2	*	191.7450	46.76	-7.81	38.95	43.50	-4.55	peak
3		218.3085	37.72	-5.88	31.84	46.00	-14.16	peak
4		416.1791	29.27	-4.25	25.02	46.00	-20.98	peak
5		601.4265	27.50	3.20	30.70	46.00	-15.30	peak
6		804.6028	23.93	7.60	31.53	46.00	-14.47	peak

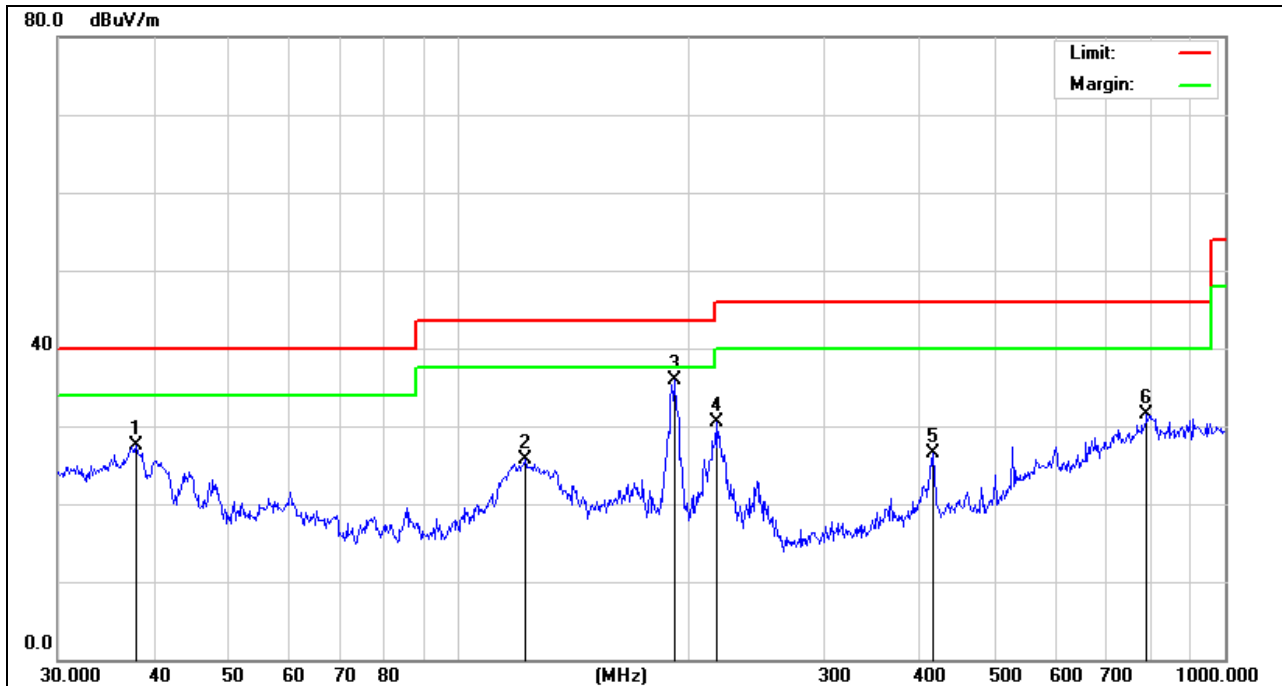
EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	RX	Polarization :	Horizontal
Test Power :	DC 12V from adapter		



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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		40.7016	22.61	-1.88	20.73	40.00	-19.27	peak
2		139.8508	28.40	-7.02	21.38	43.50	-22.12	peak
3	*	191.0738	44.22	-7.46	36.76	43.50	-6.74	peak
4		218.3085	44.53	-6.85	37.68	46.00	-8.32	peak
5		414.7223	32.80	-1.84	30.96	46.00	-15.04	peak
6		719.1995	24.67	7.37	32.04	46.00	-13.96	peak

EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	RX	Polarization :	Vertical
Test Power :	DC 12V from adapter		



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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB Detector
1		37.9450	32.02	-4.43	27.59	40.00	-12.41 peak
2		121.9755	34.99	-9.33	25.66	43.50	-17.84 peak
3	*	191.0738	43.92	-7.92	36.00	43.50	-7.50 peak
4		216.7828	36.07	-5.57	30.50	46.00	-15.50 peak
5		416.1791	30.84	-4.25	26.59	46.00	-19.41 peak
6		790.6188	23.79	7.69	31.48	46.00	-14.52 peak

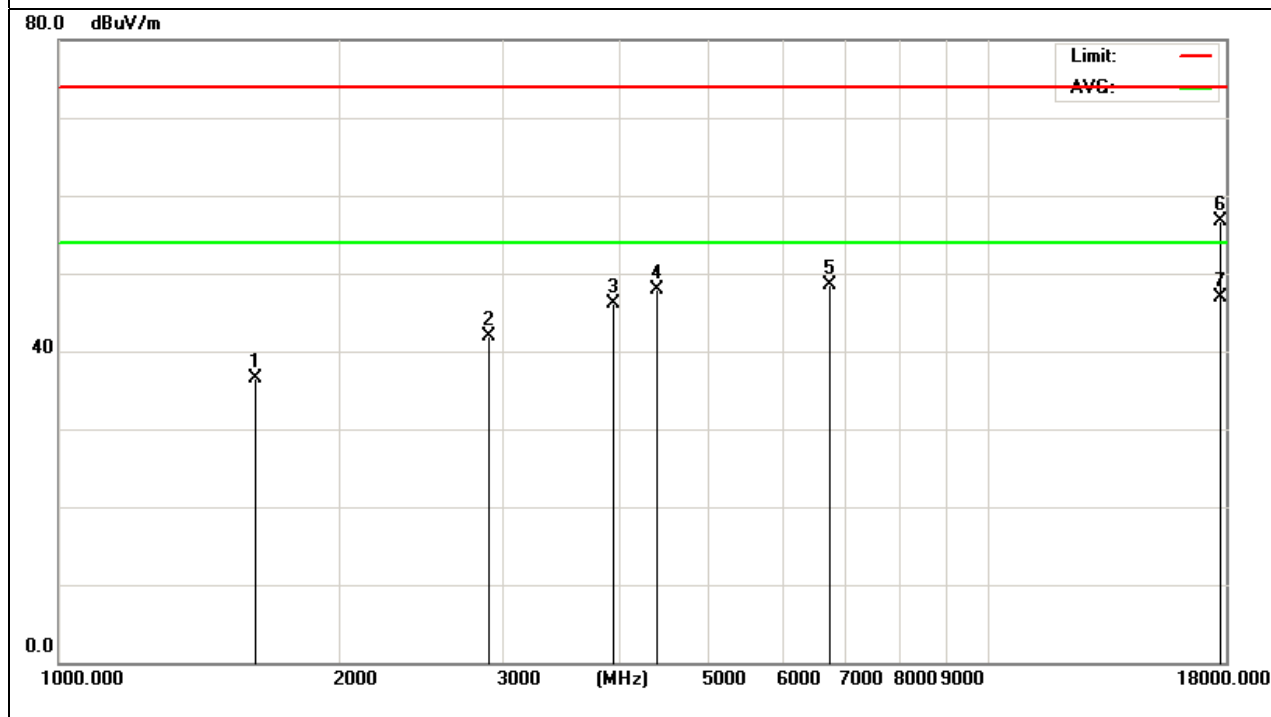
3.2.5 TEST RESULTS (ABOVE 1000 MHZ)

5.15MHz~5.25MHz:

EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11a Channel 36	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1623.118	46.32	-9.84	36.48	74.00	-37.52	peak
2894.036	44.25	-2.41	41.84	74.00	-32.16	peak
3946.579	42.74	3.44	46.18	74.00	-27.82	peak
4385.015	43.46	4.50	47.96	74.00	-26.04	peak
6755.562	42.58	6.01	48.59	74.00	-25.41	peak
17703.658	31.87	24.89	56.76	74.00	-17.24	peak
17703.658	22.06	24.89	46.95	54.00	-7.05	AVG

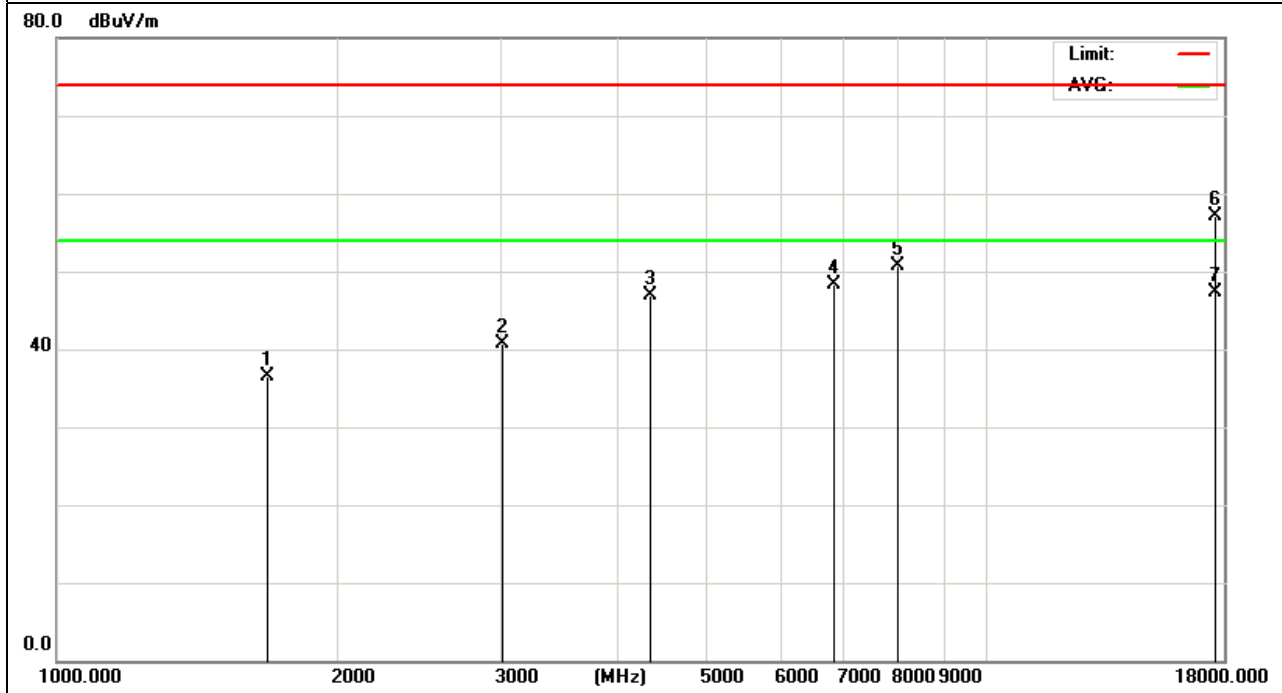
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11a Channel 36	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1681.256	46.28	-9.69	36.59	74.00	-37.41	peak
3012.669	42.33	-1.65	40.68	74.00	-33.32	peak
4354.044	42.41	4.44	46.85	74.00	-27.15	peak
6843.639	42.32	6.08	48.40	74.00	-25.60	peak
8012.328	40.28	10.40	50.68	74.00	-23.32	peak
17583.325	32.06	24.97	57.03	74.00	-16.97	peak
17583.325	22.41	24.97	47.38	54.00	-6.62	AVG

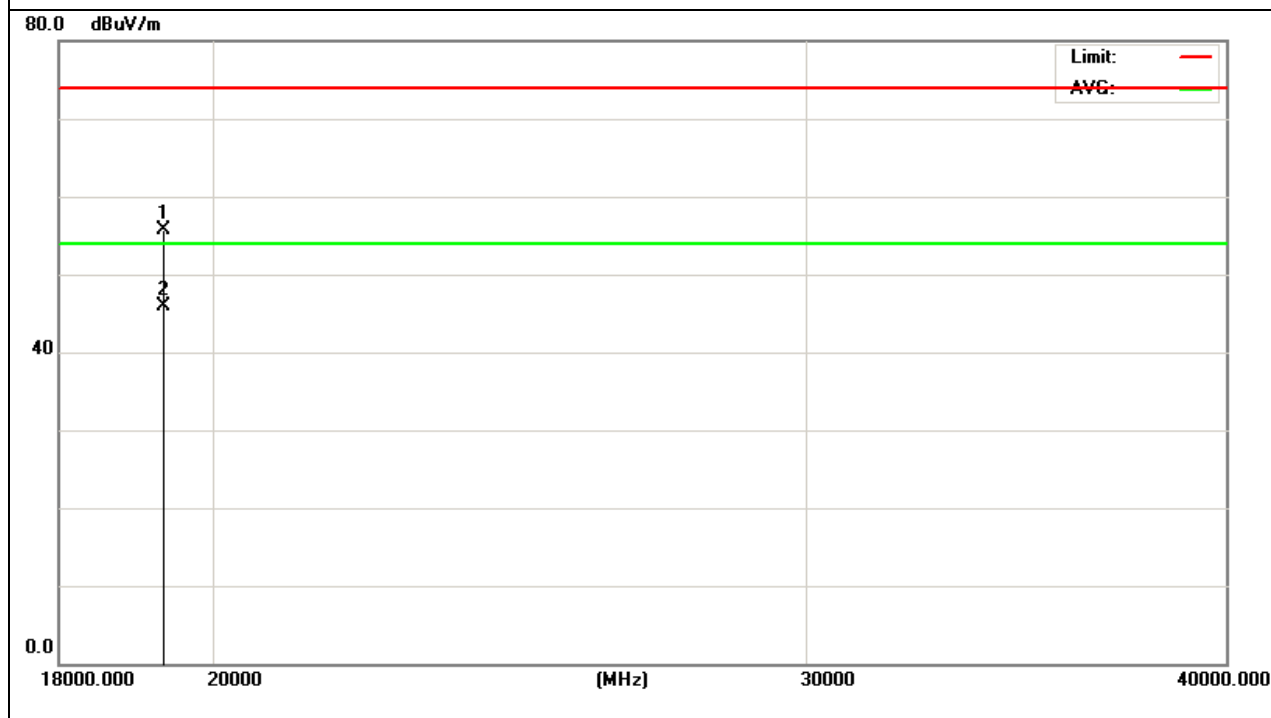
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11a Channel 36	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
19331.000	41.36	14.27	55.63	74.00	-18.37	peak
19331.000	31.58	14.27	45.85	54.00	-8.15	AVG

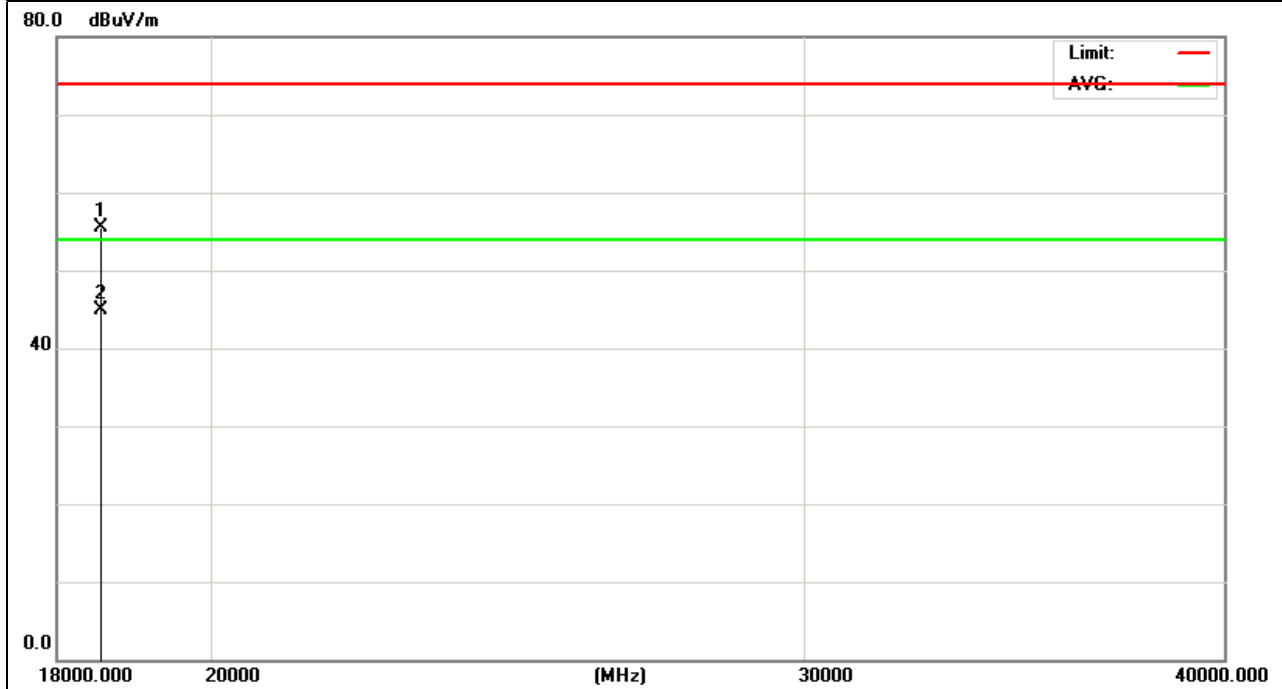
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11a Channel 36	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
18547.000	42.36	13.11	55.47	74.00	-18.53	peak
18547.000	31.88	13.11	44.99	54.00	-9.01	AVG

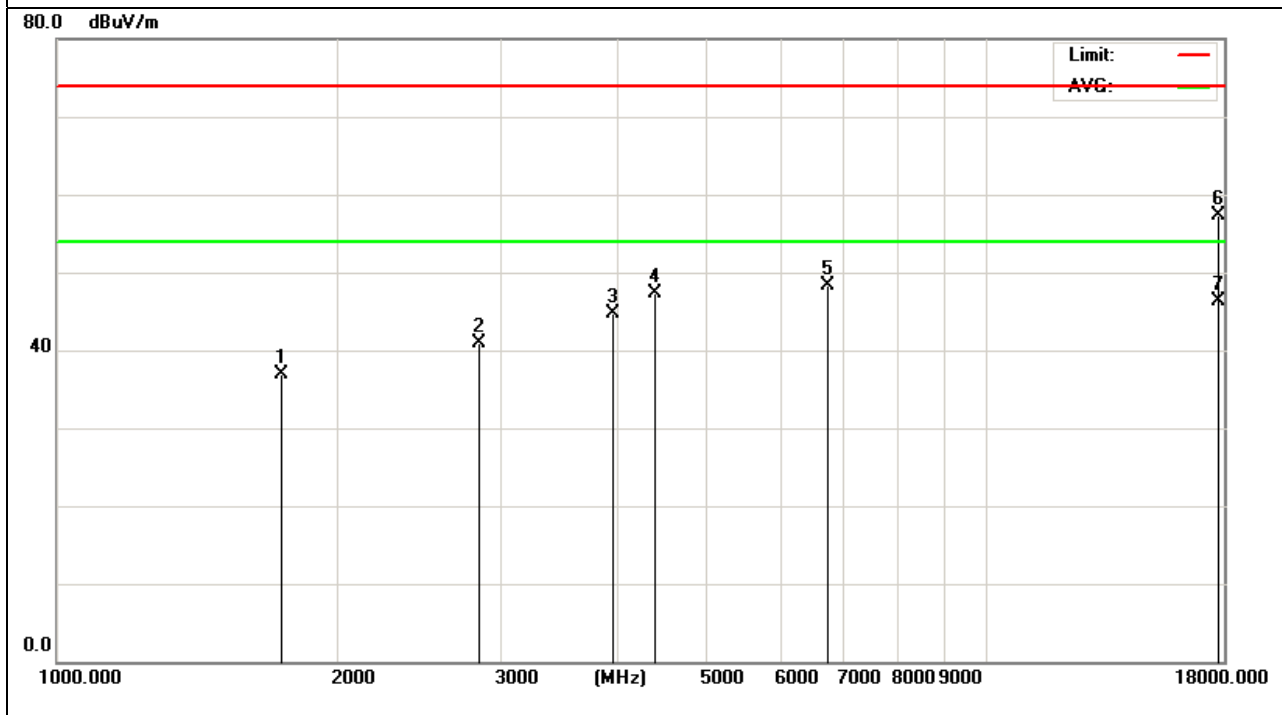
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11a Channel 40	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1743.325	46.34	-9.51	36.83	74.00	-37.17	peak
2840.214	43.47	-2.66	40.81	74.00	-33.19	peak
3956.639	41.26	3.52	44.78	74.00	-29.22	peak
4387.589	42.88	4.50	47.38	74.00	-26.62	peak
6745.021	42.36	6.01	48.37	74.00	-25.63	peak
17693.336	32.47	24.89	57.36	74.00	-16.64	peak
17693.336	21.36	24.89	46.25	54.00	-7.75	AVG

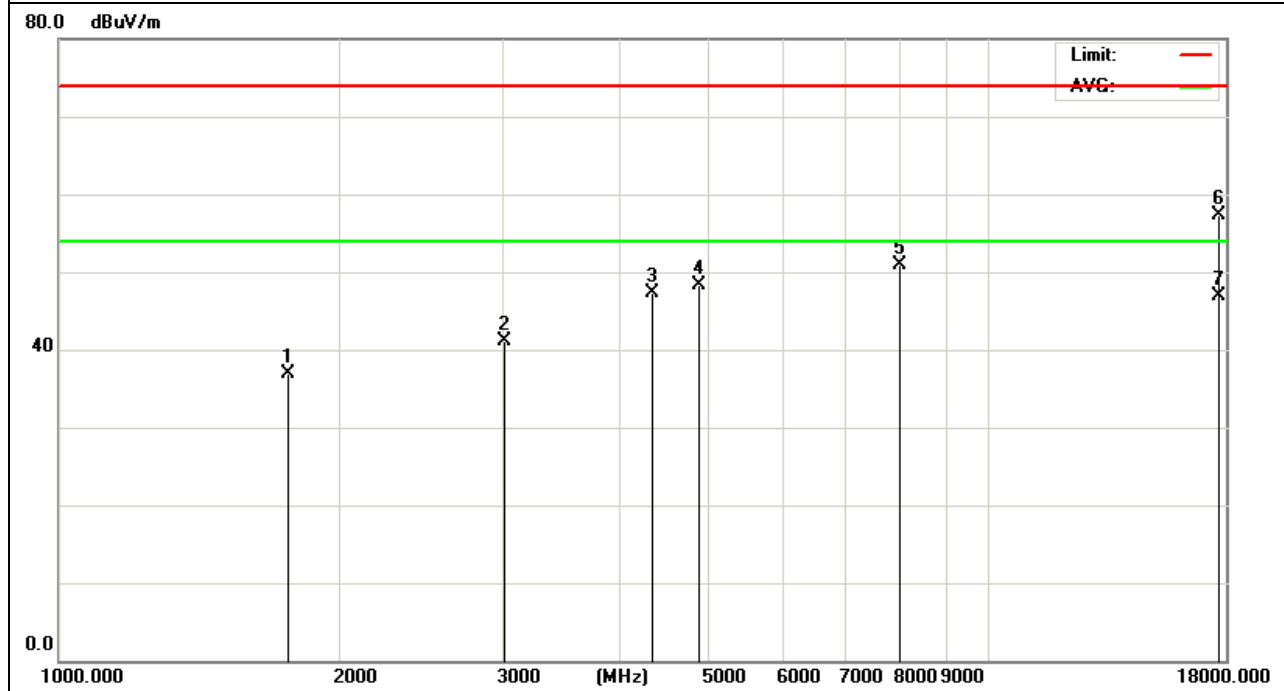
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11a Channel 40	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1763.022	46.28	-9.46	36.82	74.00	-37.18	peak
3016.479	42.69	-1.64	41.05	74.00	-32.95	peak
4344.069	42.87	4.42	47.29	74.00	-26.71	peak
4876.668	43.22	5.14	48.36	74.00	-25.64	peak
8014.475	40.45	10.40	50.85	74.00	-23.15	peak
17659.587	32.47	24.92	57.39	74.00	-16.61	peak
17659.587	22.08	24.92	47.00	54.00	-7.00	AVG

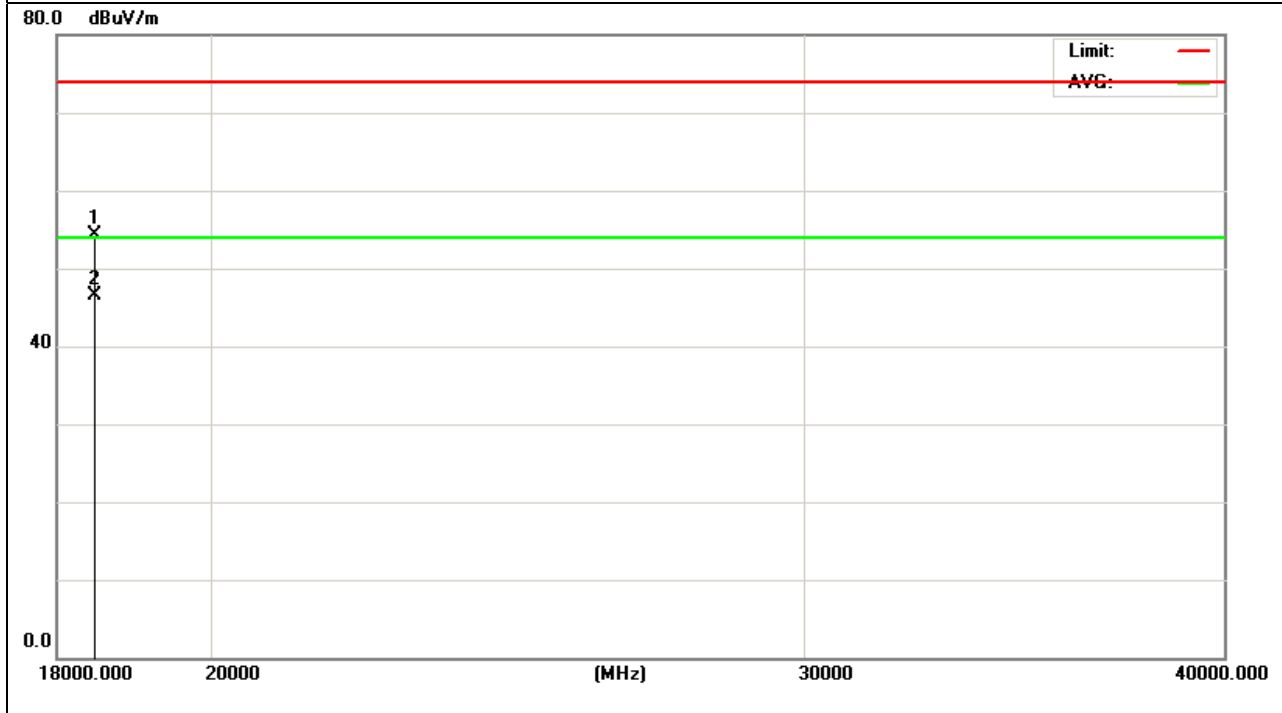
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11a Channel 40	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
18452.000	41.36	12.97	54.33	74.00	-19.67	peak
18452.000	33.47	12.97	46.44	54.00	-7.56	AVG

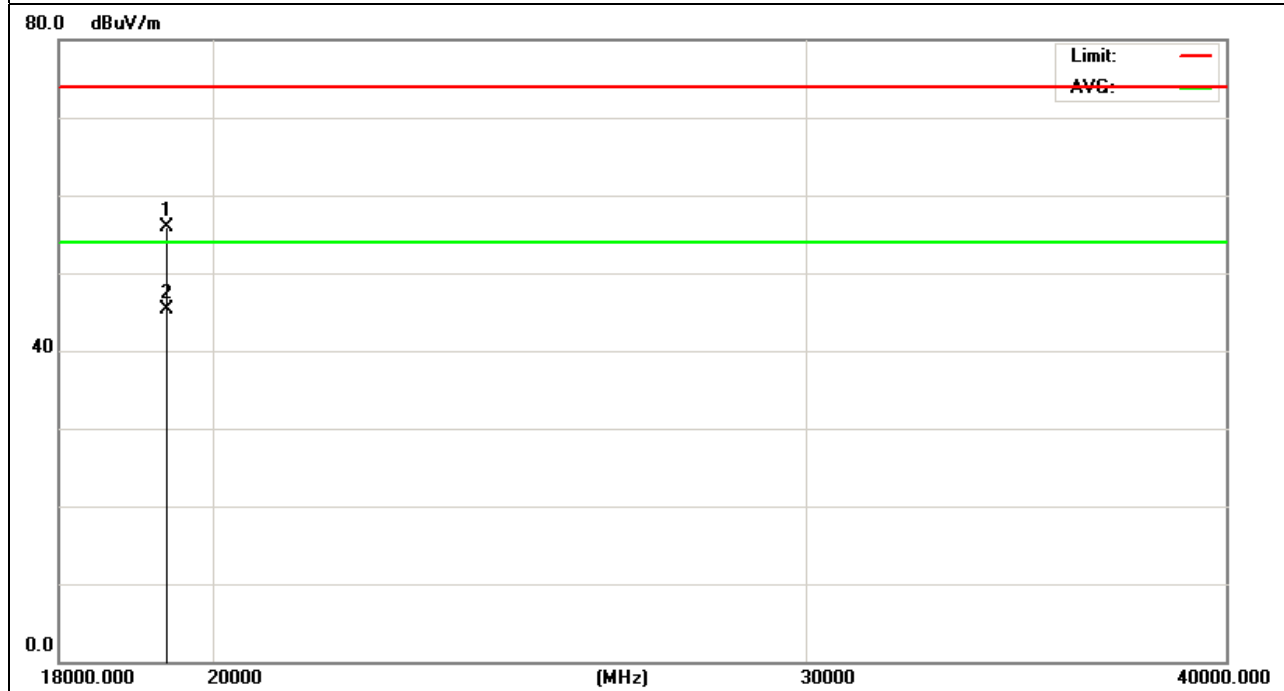
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11a Channel 40	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
19367.000	41.58	14.33	55.91	74.00	-18.09	peak
19367.000	30.98	14.33	45.31	54.00	-8.69	AVG

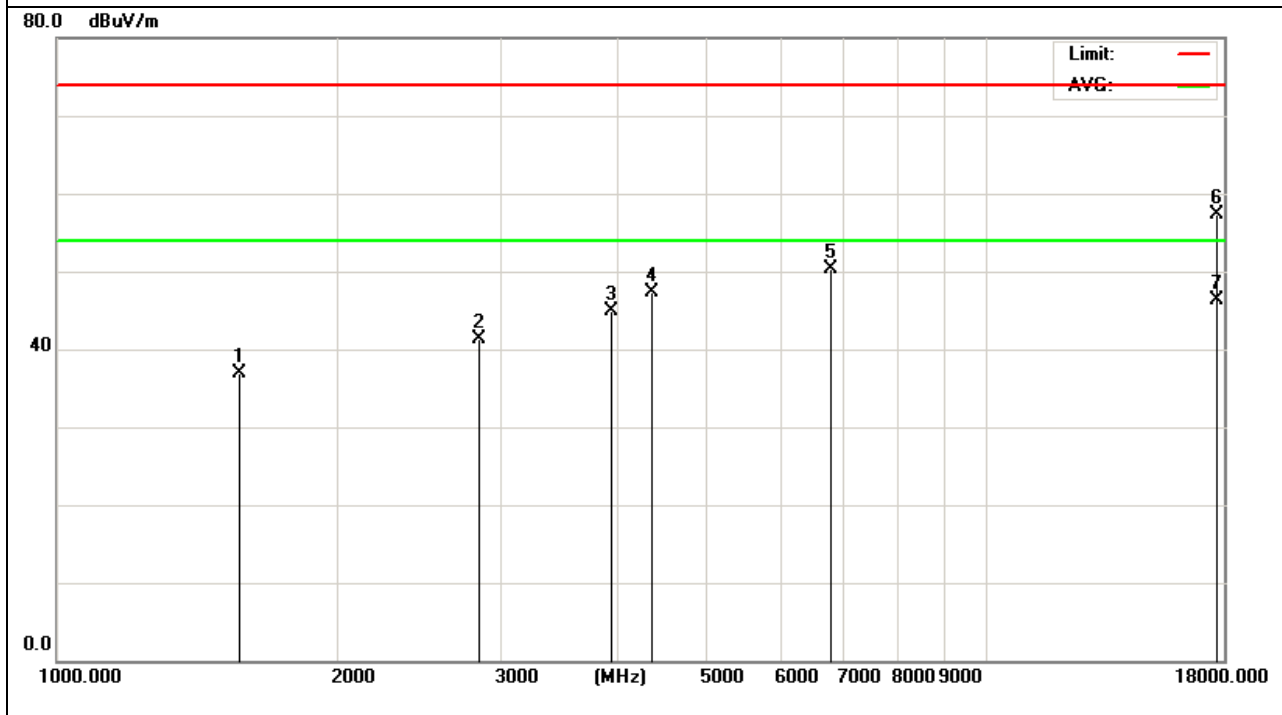
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11a Channel 48	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1572.041	46.84	-9.88	36.96	74.00	-37.04	peak
2844.196	43.93	-2.64	41.29	74.00	-32.71	peak
3946.558	41.55	3.44	44.99	74.00	-29.01	peak
4357.845	42.87	4.45	47.32	74.00	-26.68	peak
6789.024	44.29	6.04	50.33	74.00	-23.67	peak
17663.250	32.46	24.92	57.38	74.00	-16.62	peak
17663.250	21.41	24.92	46.33	54.00	-7.67	AVG

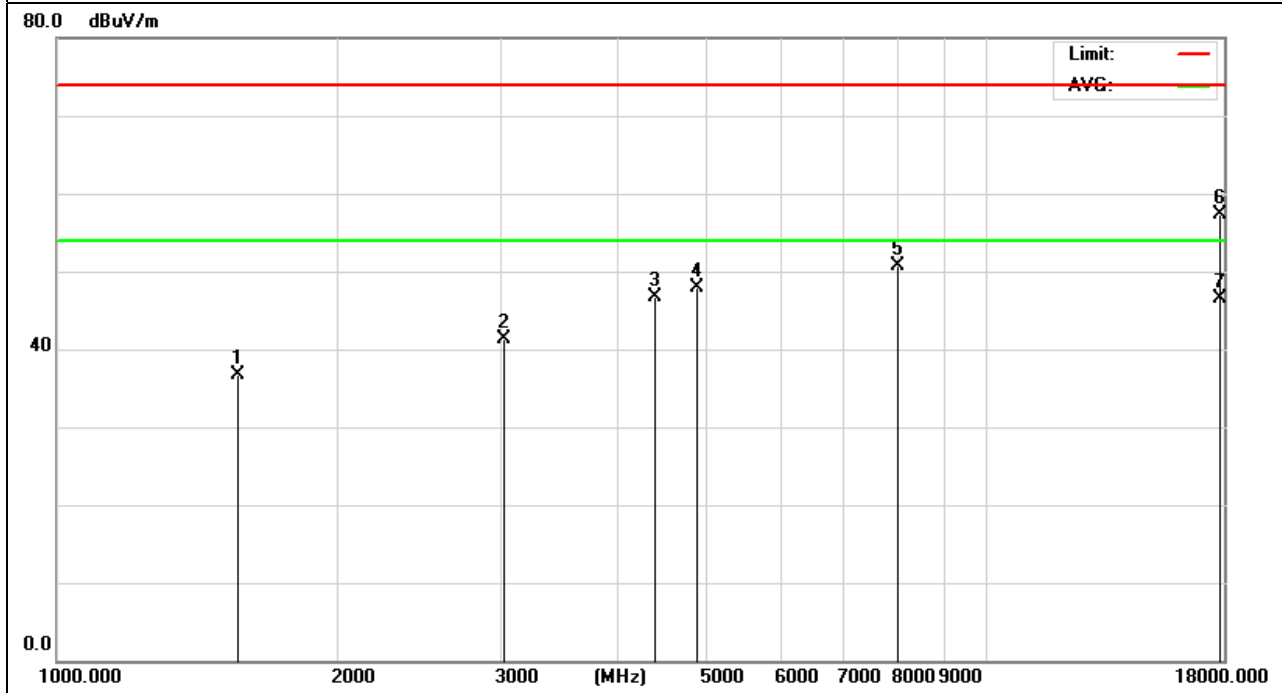
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11a Channel 48	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1564.832	46.63	-9.88	36.75	74.00	-37.25	peak
3019.885	42.88	-1.63	41.25	74.00	-32.75	peak
4381.214	42.14	4.49	46.63	74.00	-27.37	peak
4872.336	42.87	5.13	48.00	74.00	-26.00	peak
8016.479	40.23	10.40	50.63	74.00	-23.37	peak
17763.022	32.41	24.85	57.26	74.00	-16.74	peak
17763.022	21.69	24.85	46.54	54.00	-7.46	AVG

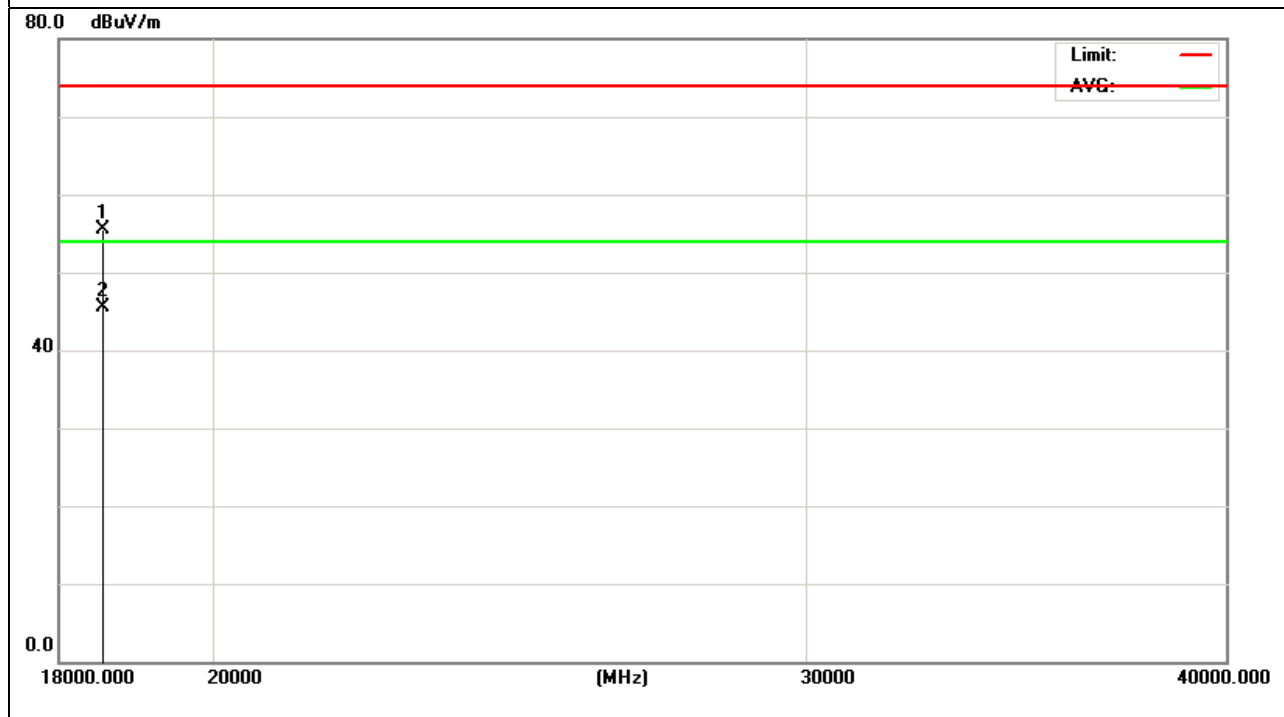
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11a Channel 48	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
18547.000	42.33	13.11	55.44	74.00	-18.56	peak
18547.000	32.41	13.11	45.52	54.00	-8.48	AVG

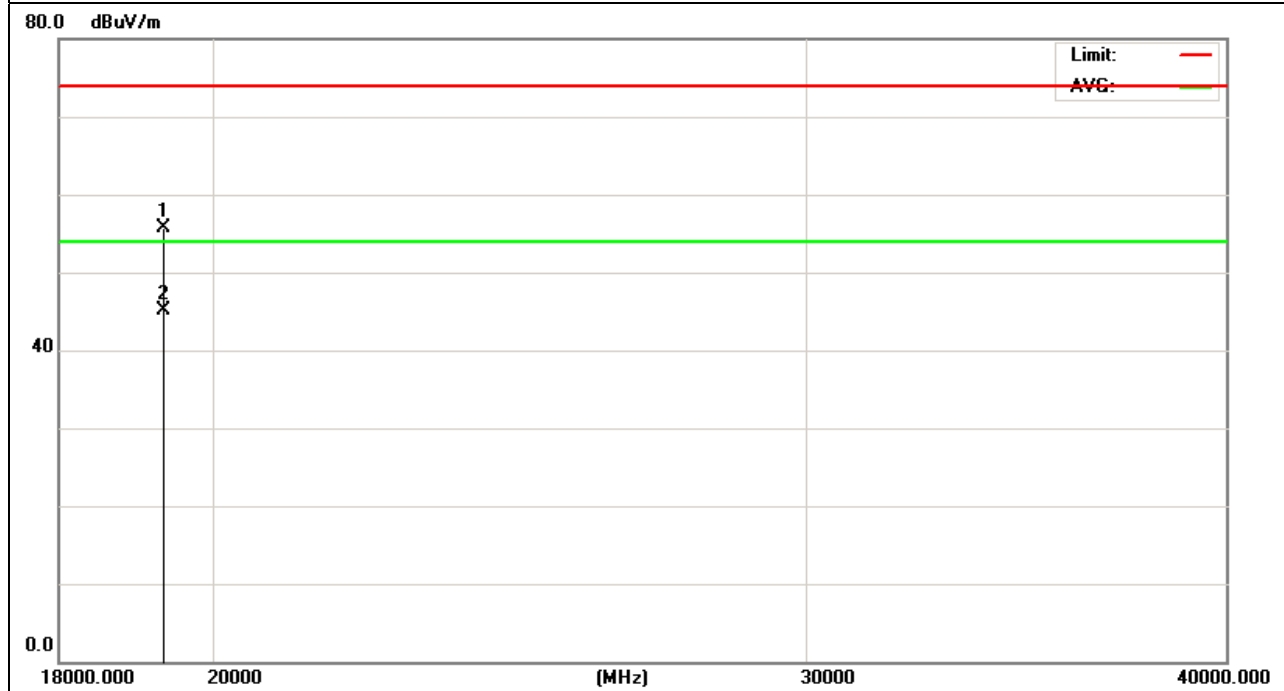
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11a Channel 48	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
19335.000	41.50	14.28	55.78	74.00	-18.22	peak
19335.000	30.77	14.28	45.05	54.00	-8.95	AVG

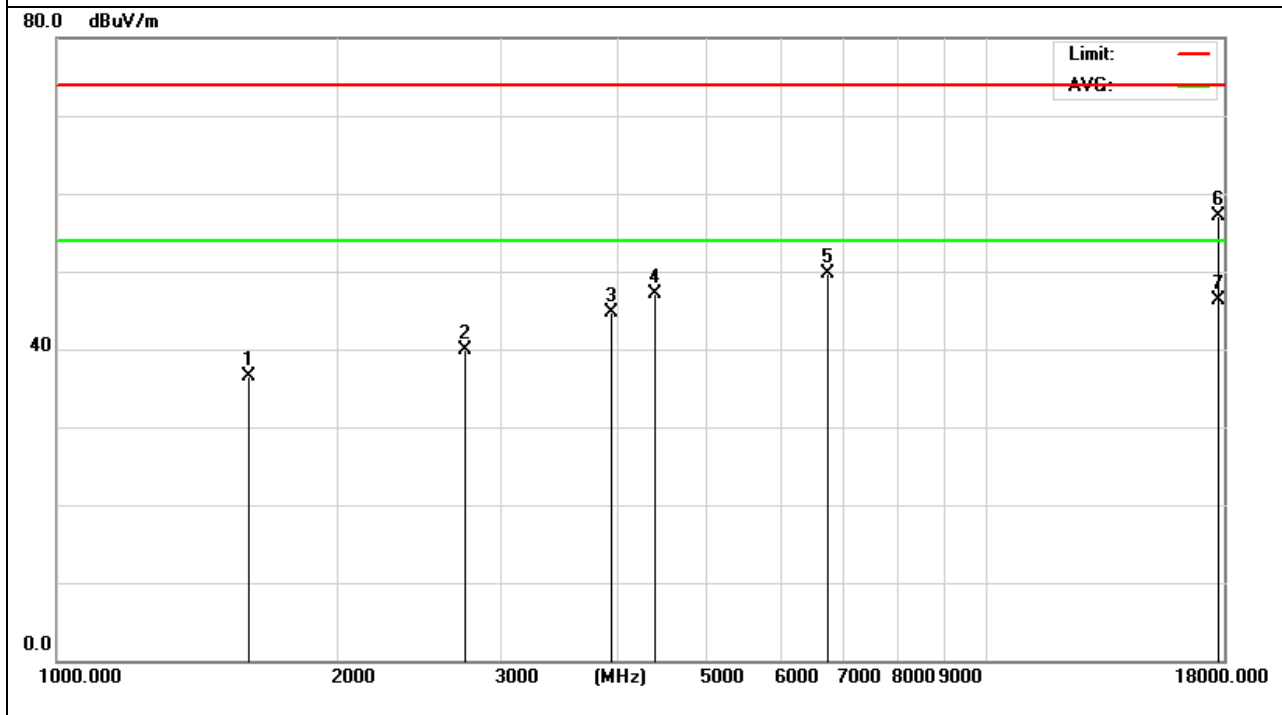
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n20 Channel 36	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1602.417	46.38	-9.89	36.49	74.00	-37.51	peak
2743.588	43.26	-3.27	39.99	74.00	-34.01	peak
3946.221	41.22	3.44	44.66	74.00	-29.34	peak
4389.547	42.67	4.51	47.18	74.00	-26.82	peak
6755.024	43.68	6.01	49.69	74.00	-24.31	peak
17691.014	32.17	24.89	57.06	74.00	-16.94	peak
17691.014	21.36	24.89	46.25	54.00	-7.75	AVG

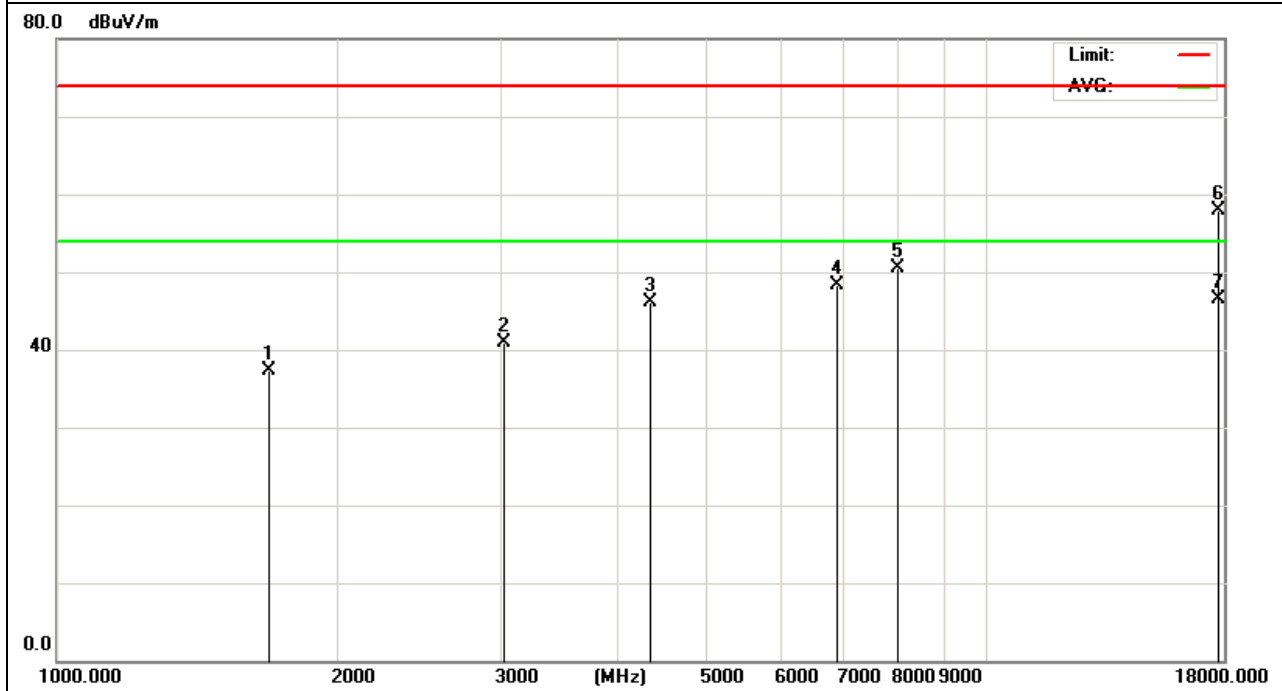
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n20 Channel 36	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1687.554	46.89	-9.66	37.23	74.00	-36.77	peak
3016.877	42.56	-1.64	40.92	74.00	-33.08	peak
4348.245	41.77	4.43	46.20	74.00	-27.80	peak
6879.564	42.17	6.11	48.28	74.00	-25.72	peak
8016.647	40.16	10.40	50.56	74.00	-23.44	peak
17695.124	33.03	24.90	57.93	74.00	-16.07	peak
17695.124	21.63	24.90	46.53	54.00	-7.47	AVG

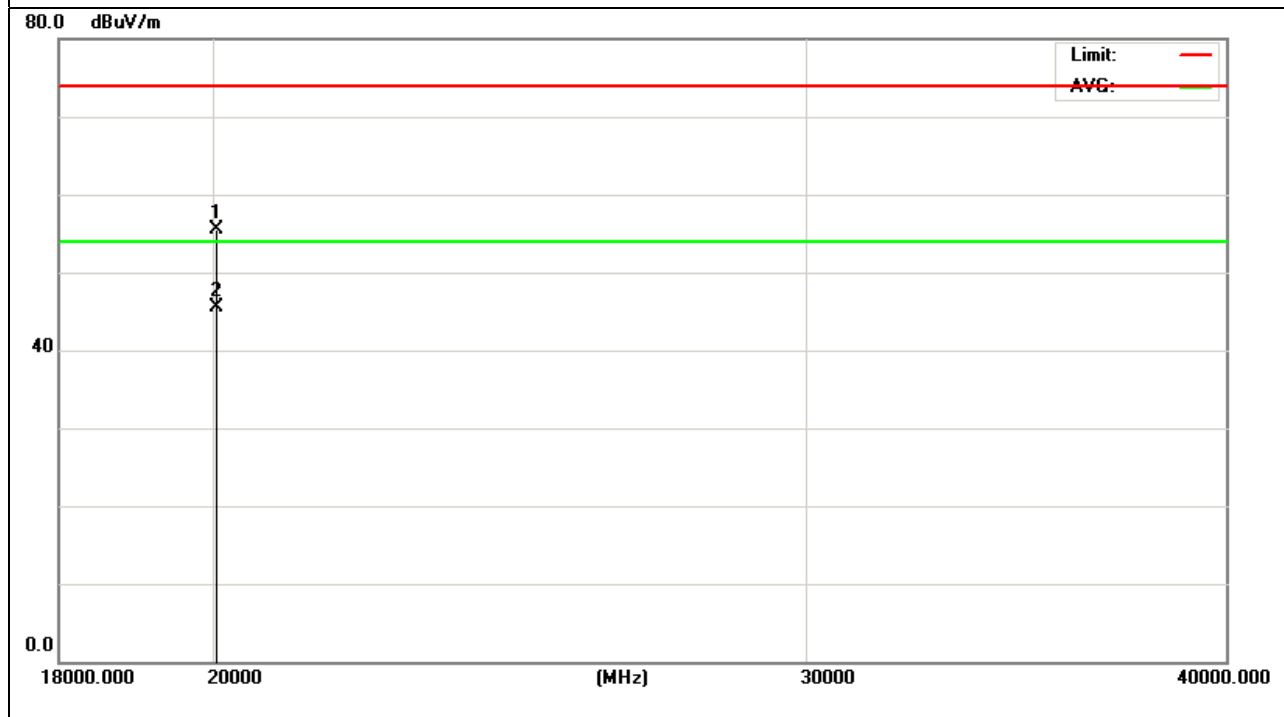
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n20 Channel 36	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
20035.000	40.23	15.32	55.55	74.00	-18.45	peak
20035.000	30.14	15.32	45.46	54.00	-8.54	AVG

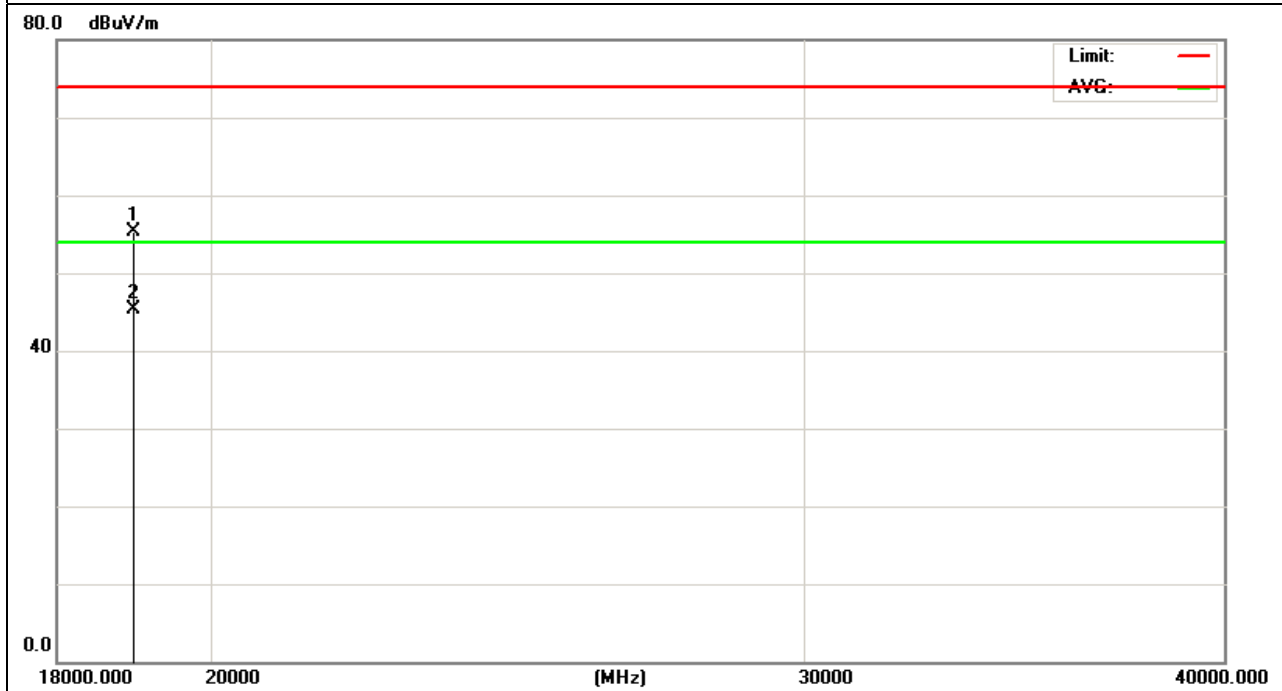
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n20 Channel 36	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
18972.000	41.49	13.74	55.23	74.00	-18.77	peak
18972.000	31.56	13.74	45.30	54.00	-8.70	AVG

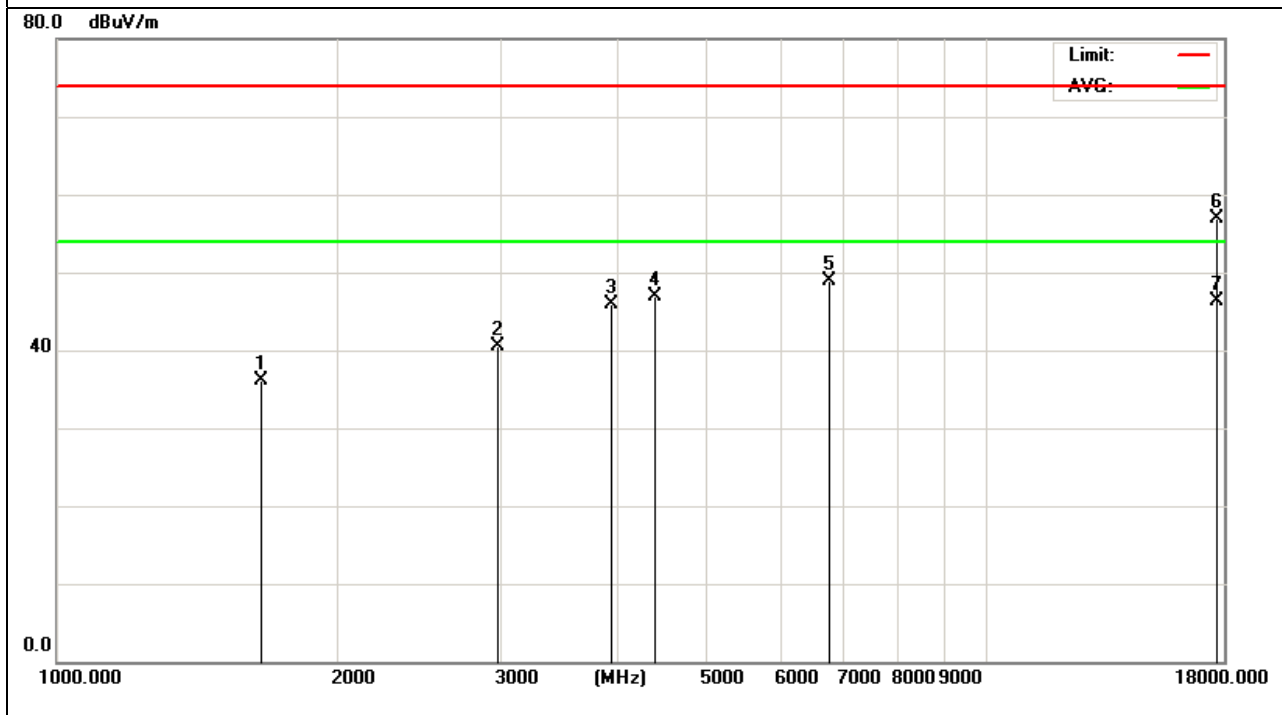
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n20 Channel 40	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1657.251	45.89	-9.74	36.15	74.00	-37.85	peak
2975.165	42.33	-1.85	40.48	74.00	-33.52	peak
3945.438	42.56	3.43	45.99	74.00	-28.01	peak
4389.120	42.47	4.50	46.97	74.00	-27.03	peak
6774.101	42.88	6.04	48.92	74.00	-25.08	peak
17689.987	32.10	24.90	57.00	74.00	-17.00	peak
17689.987	21.36	24.90	46.26	54.00	-7.74	AVG

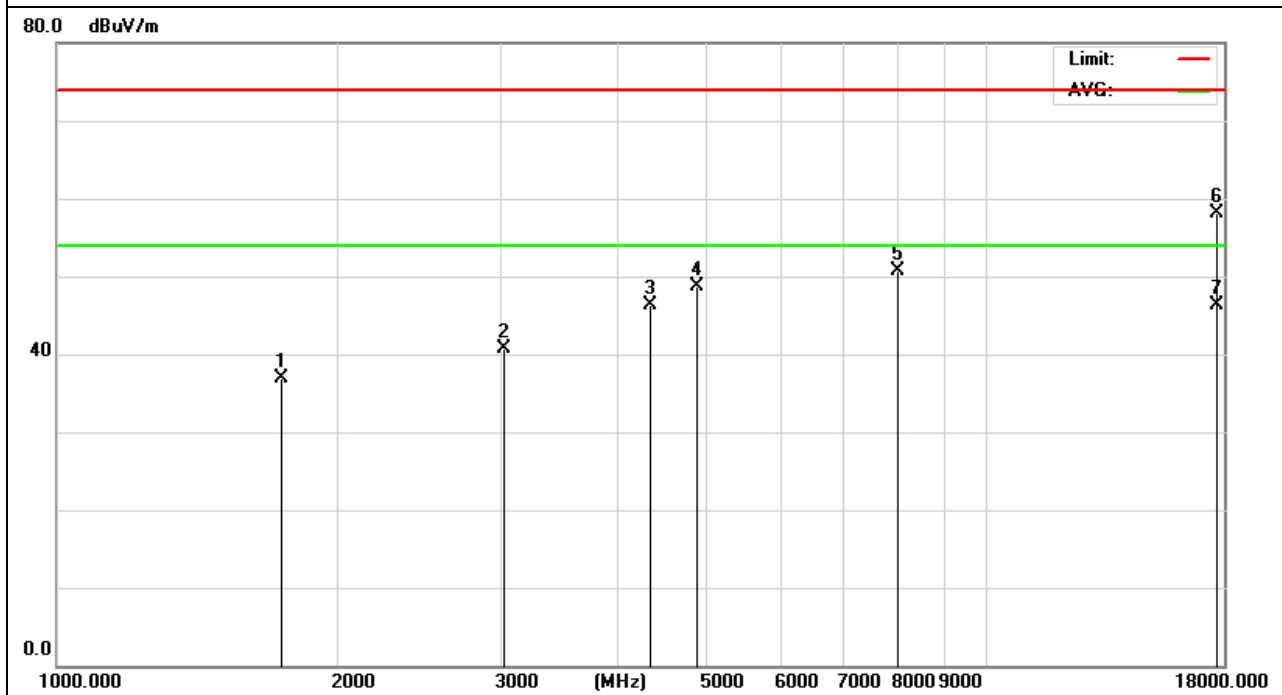
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n20 Channel 40	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1743.357	46.41	-9.51	36.90	74.00	-37.10	peak
3016.887	42.36	-1.64	40.72	74.00	-33.28	peak
4346.571	41.80	4.43	46.23	74.00	-27.77	peak
4863.342	43.59	5.13	48.72	74.00	-25.28	peak
8013.664	40.24	10.40	50.64	74.00	-23.36	peak
17682.244	33.28	24.90	58.18	74.00	-15.82	peak
17682.244	21.36	24.90	46.26	54.00	-7.74	AVG

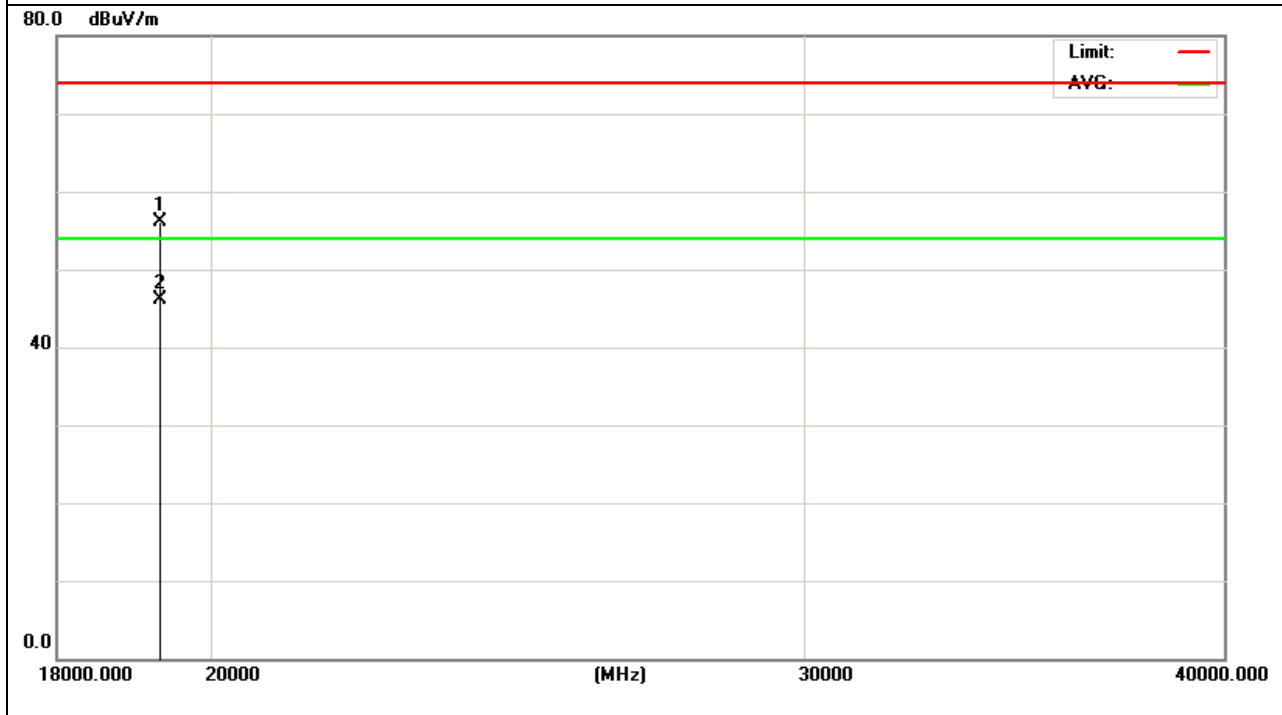
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n20 Channel 40	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
19314.000	41.77	14.25	56.02	74.00	-17.98	peak
19314.000	31.90	14.25	46.15	54.00	-7.85	AVG

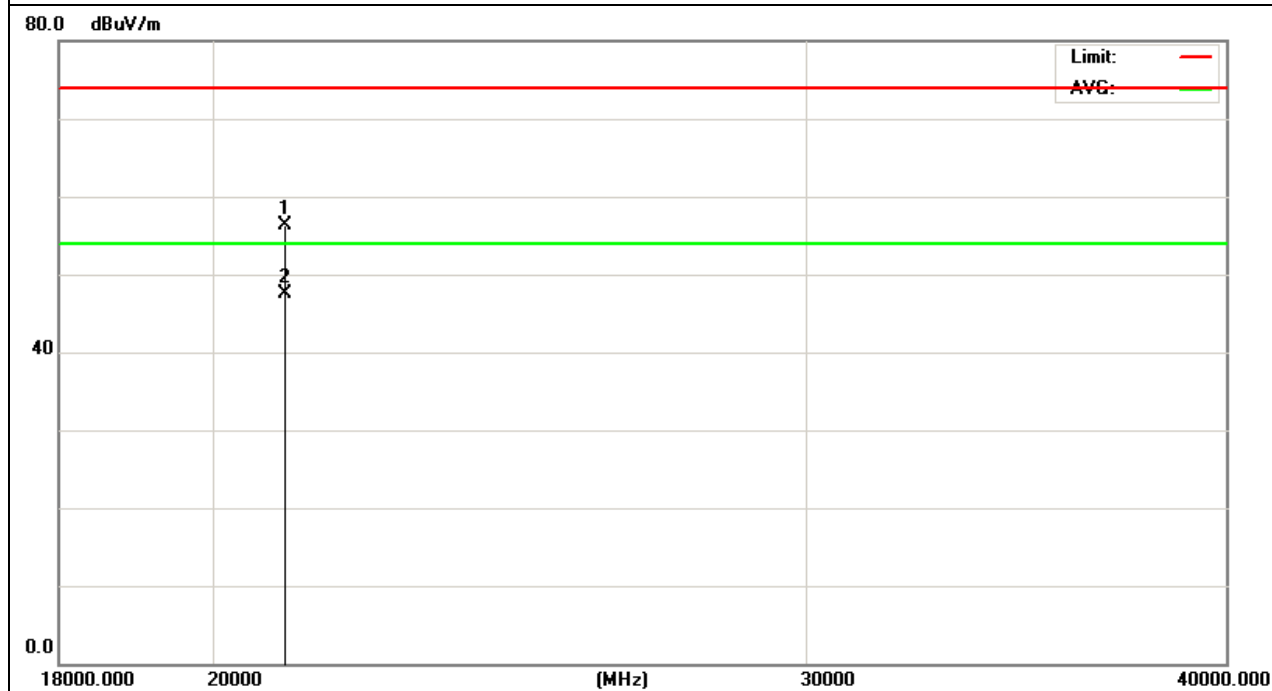
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n20 Channel 40	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
21001.000	39.48	16.75	56.23	74.00	-17.77	peak
21001.000	30.66	16.75	47.41	54.00	-6.59	AVG

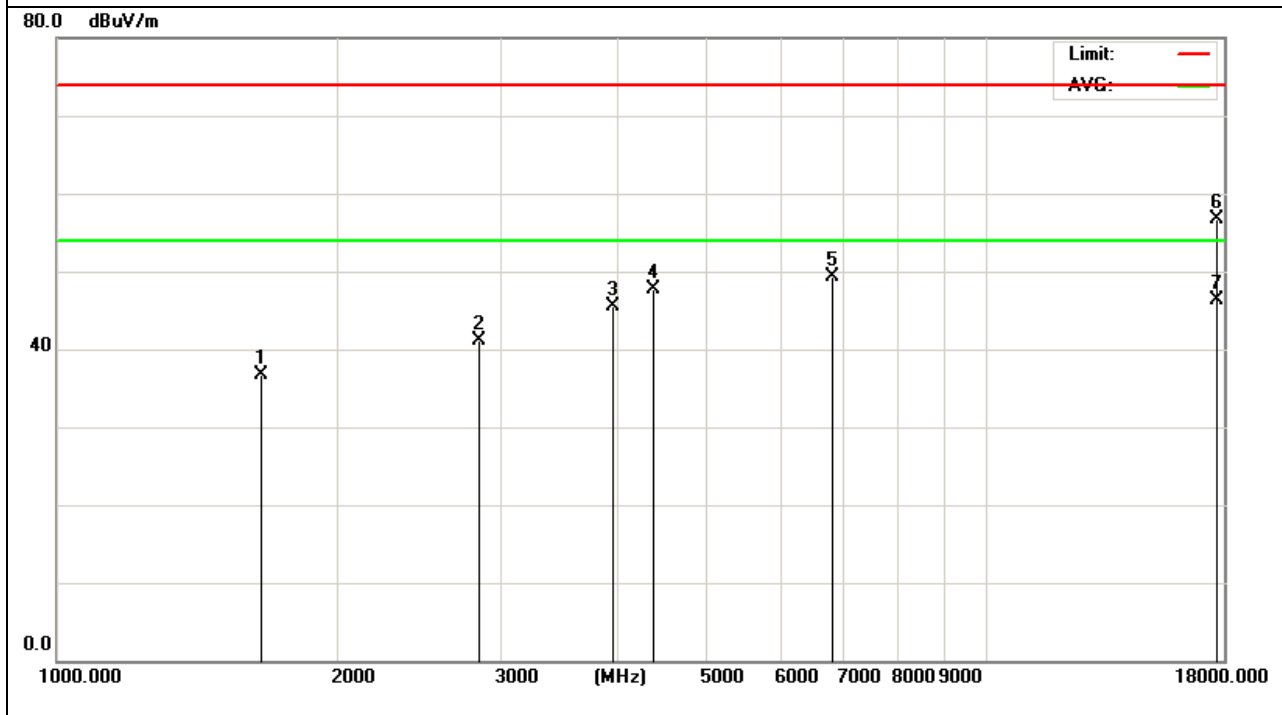
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n20 Channel 48	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1654.638	46.53	-9.76	36.77	74.00	-37.23	peak
2846.667	43.74	-2.63	41.11	74.00	-32.89	peak
3947.857	42.08	3.45	45.53	74.00	-28.47	peak
4369.941	43.22	4.47	47.69	74.00	-26.31	peak
6802.114	43.26	6.05	49.31	74.00	-24.69	peak
17658.210	31.74	24.92	56.66	74.00	-17.34	peak
17658.210	21.46	24.92	46.38	54.00	-7.62	AVG

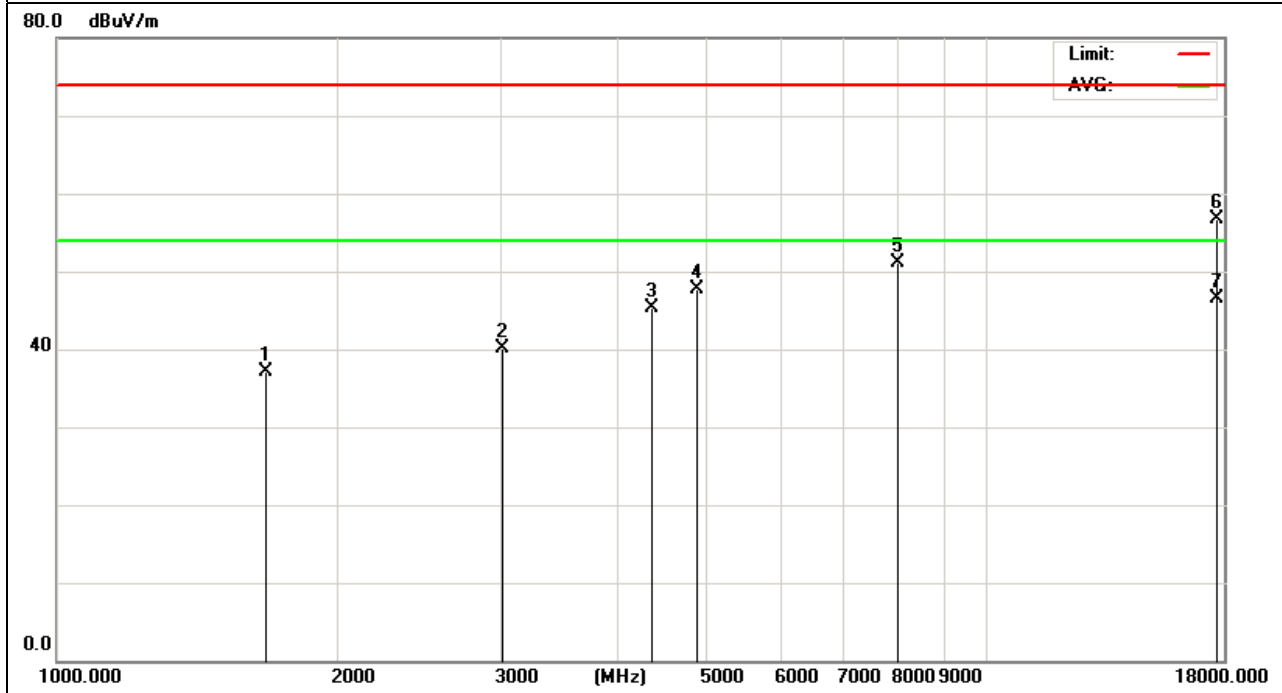
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n20 Channel 48	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1674.418	46.84	-9.70	37.14	74.00	-36.86	peak
3014.558	41.69	-1.65	40.04	74.00	-33.96	peak
4359.654	40.88	4.45	45.33	74.00	-28.67	peak
4861.014	42.58	5.12	47.70	74.00	-26.30	peak
8033.698	40.69	10.43	51.12	74.00	-22.88	peak
17658.652	31.77	24.92	56.69	74.00	-17.31	peak
17658.652	21.56	24.92	46.48	54.00	-7.52	AVG

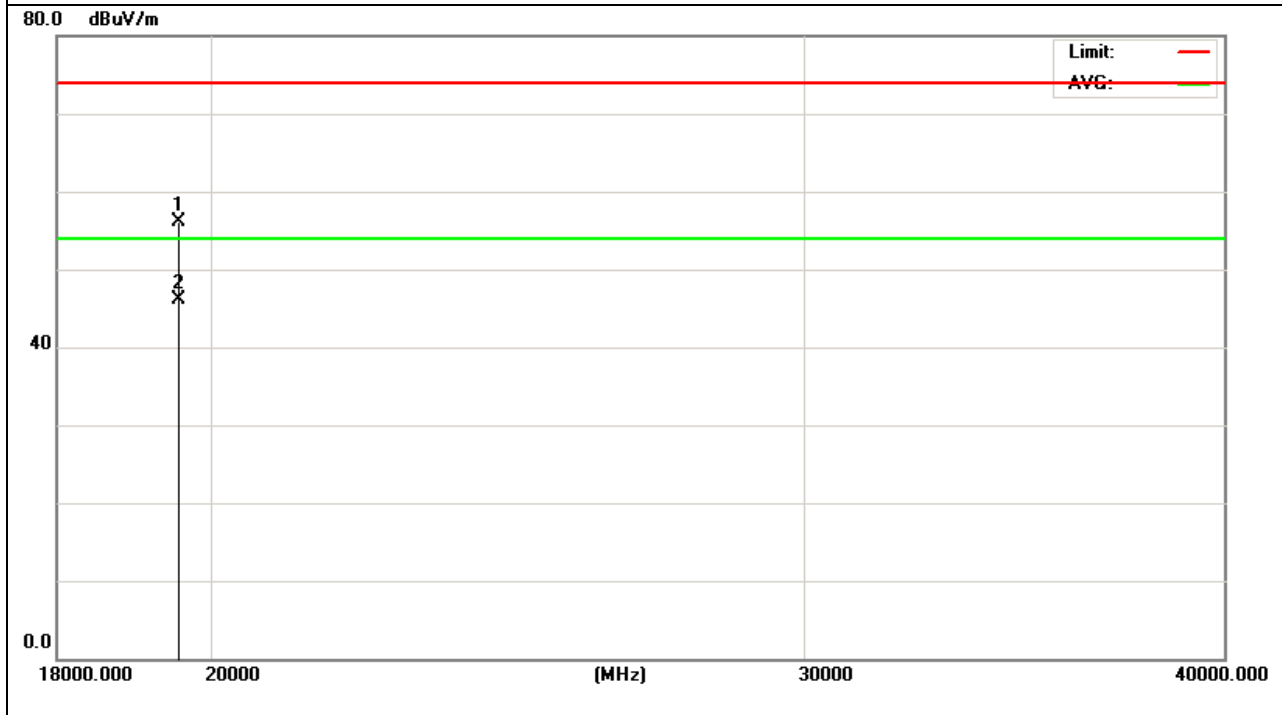
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n20 Channel 48	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
19564.000	41.58	14.62	56.20	74.00	-17.80	peak
19564.000	31.51	14.62	46.13	54.00	-7.87	AVG

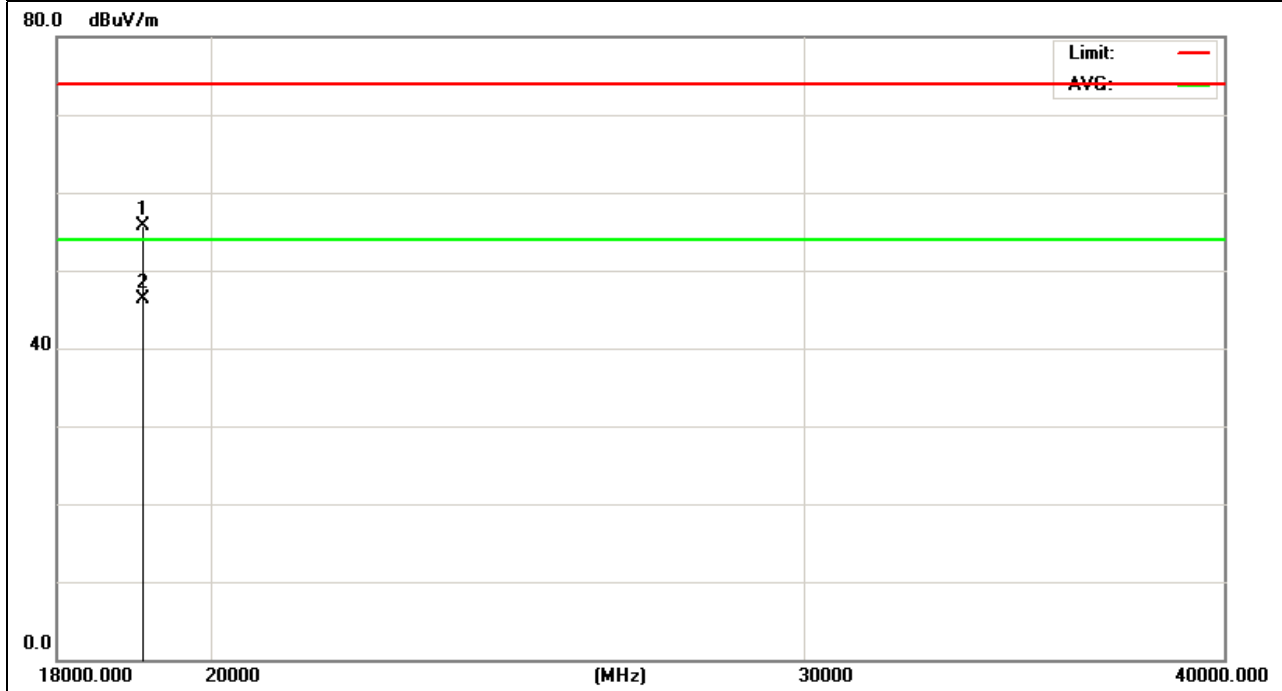
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n20 Channel 48	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
19087.000	41.85	13.91	55.76	74.00	-18.24	peak
19087.000	32.44	13.91	46.35	54.00	-7.65	AVG

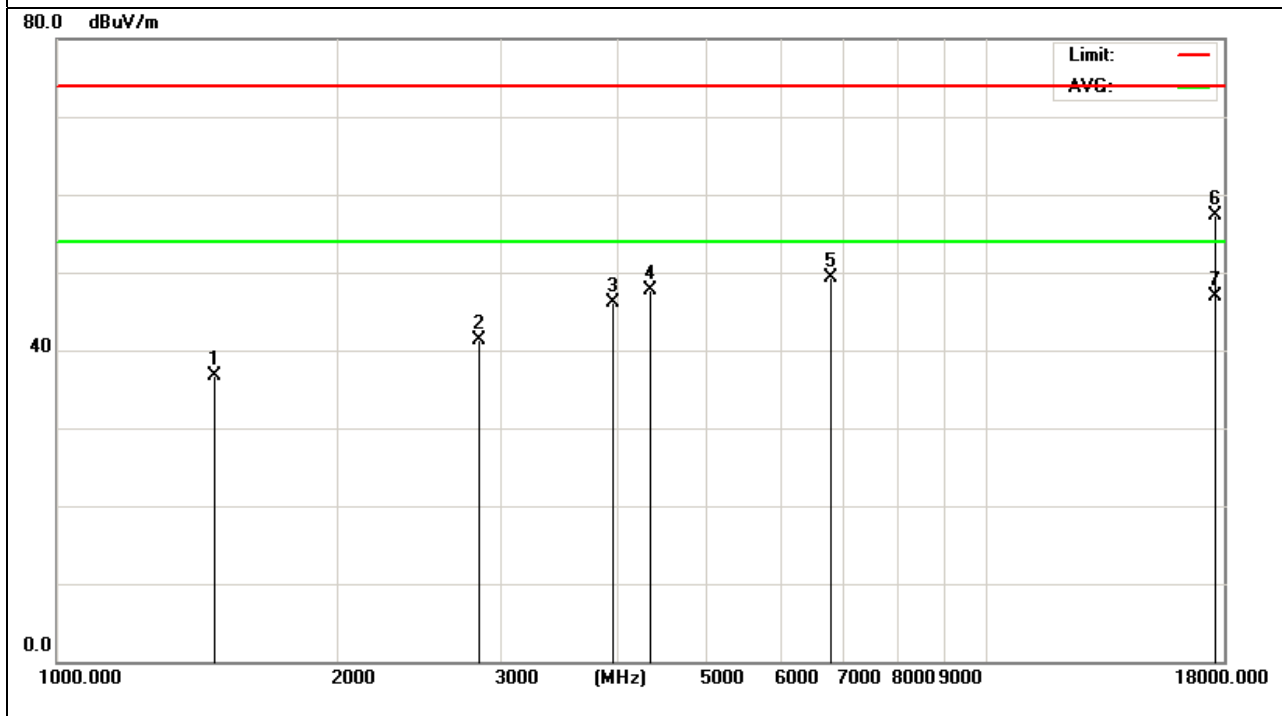
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n40 Channel 38	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1475.201	46.61	-9.95	36.66	74.00	-37.34	peak
2846.629	44.00	-2.63	41.37	74.00	-32.63	peak
3947.778	42.56	3.45	46.01	74.00	-27.99	peak
4335.501	43.23	4.40	47.63	74.00	-26.37	peak
6788.892	43.36	6.04	49.40	74.00	-24.60	peak
17551.112	32.31	25.00	57.31	74.00	-16.69	peak
17551.112	21.93	25.00	46.93	54.00	-7.07	AVG

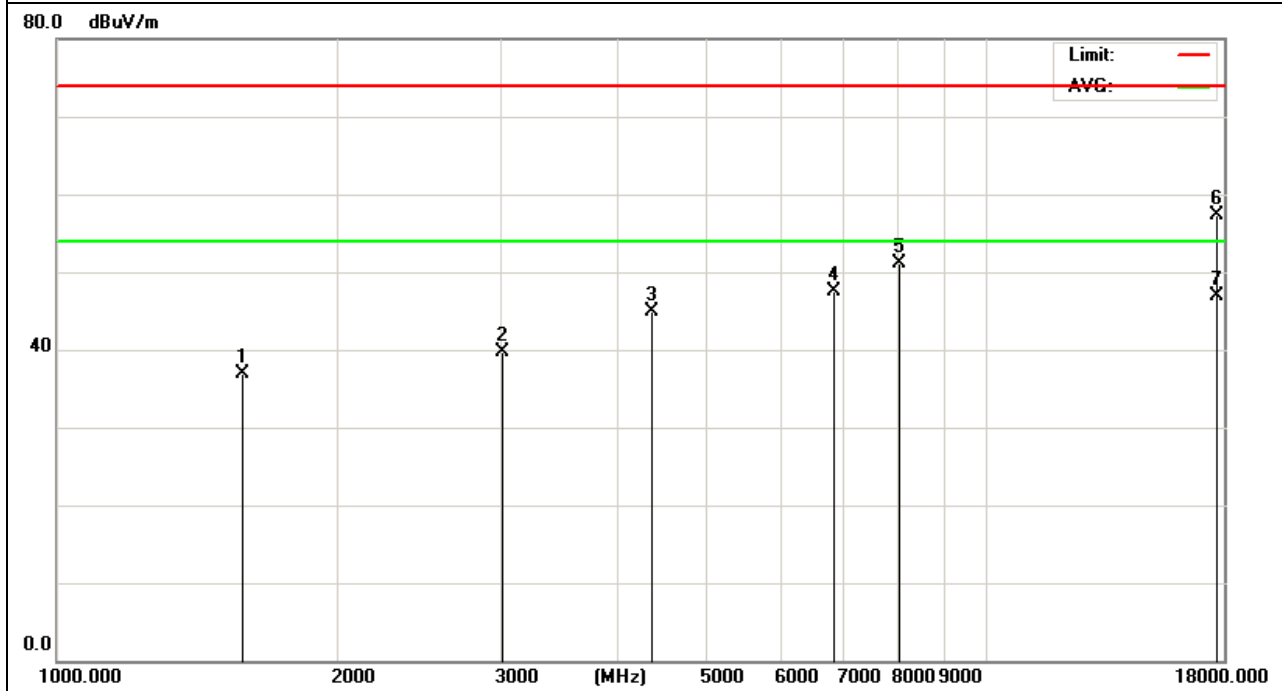
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n40 Channel 38	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1582.226	46.79	-9.88	36.91	74.00	-37.09	peak
3016.568	41.36	-1.64	39.72	74.00	-34.28	peak
4355.547	40.44	4.45	44.89	74.00	-29.11	peak
6849.915	41.36	6.08	47.44	74.00	-26.56	peak
8041.336	40.59	10.43	51.02	74.00	-22.98	peak
17654.415	32.47	24.92	57.39	74.00	-16.61	peak
17654.415	22.02	24.92	46.94	54.00	-7.06	AVG

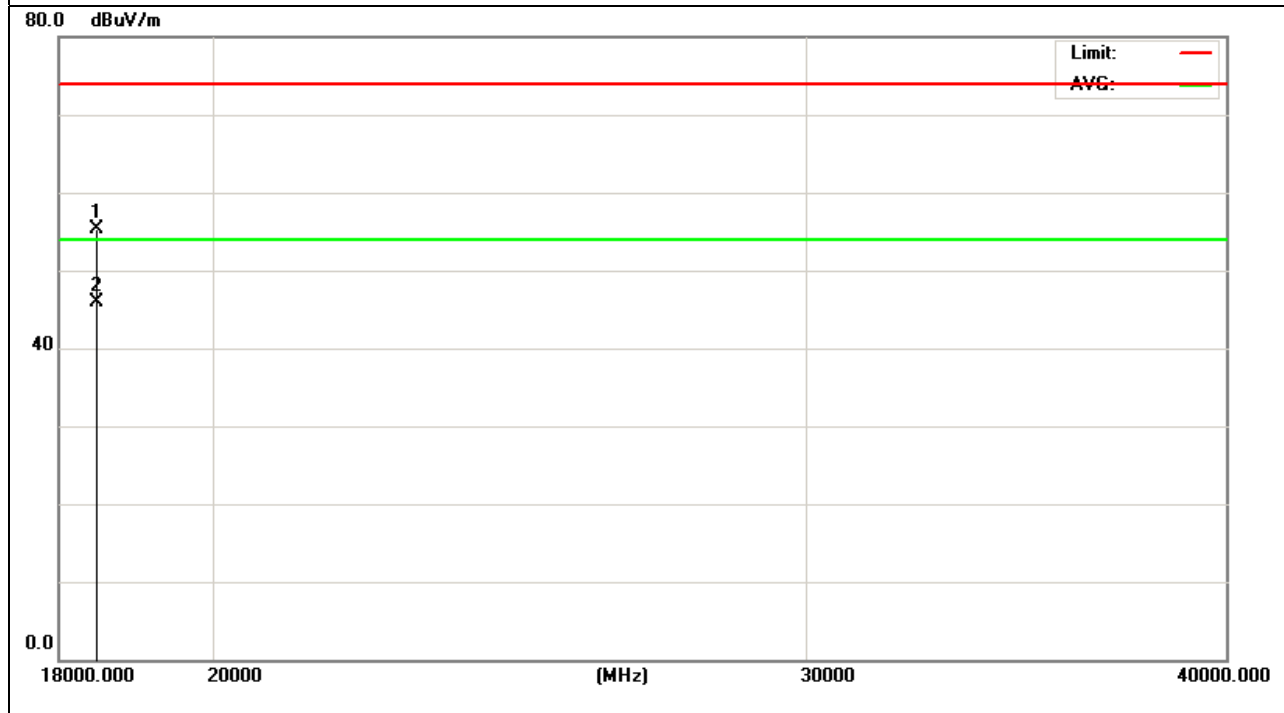
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n40 Channel 38	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
18457.000	42.33	12.97	55.30	74.00	-18.70	peak
18457.000	32.89	12.97	45.86	54.00	-8.14	AVG

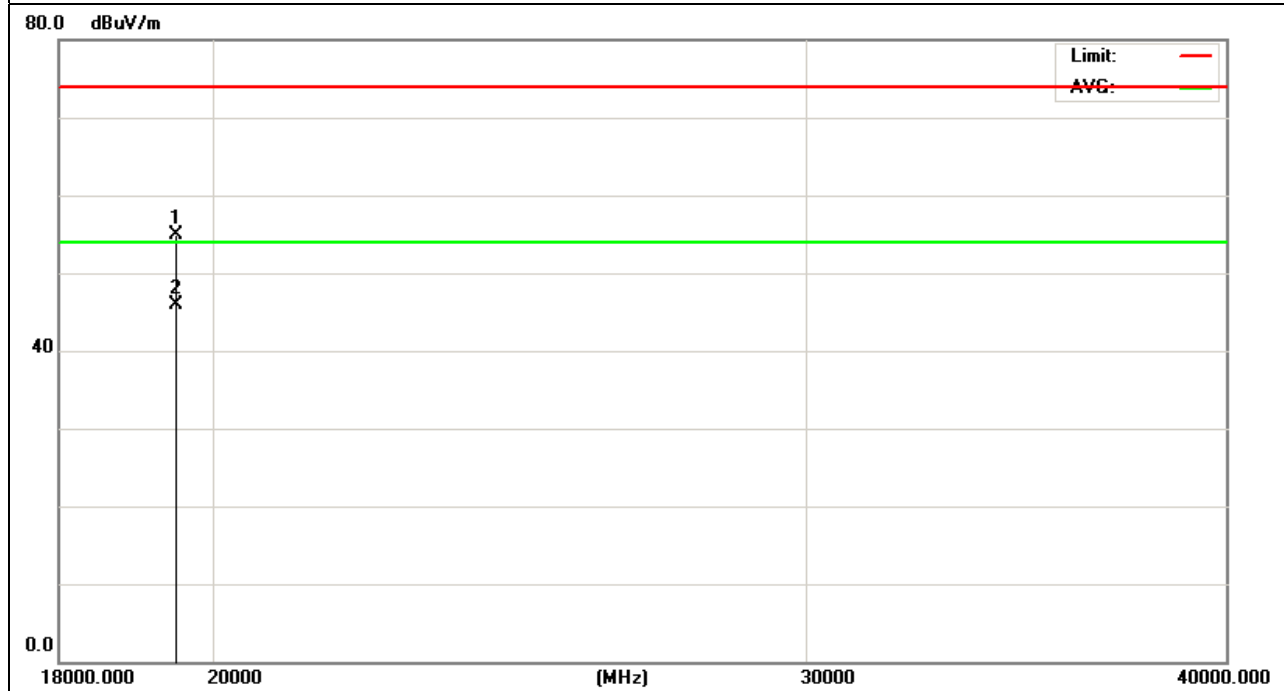
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n40 Channel 38	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
19488.000	40.32	14.51	54.83	74.00	-19.17	peak
19488.000	31.44	14.51	45.95	54.00	-8.05	AVG

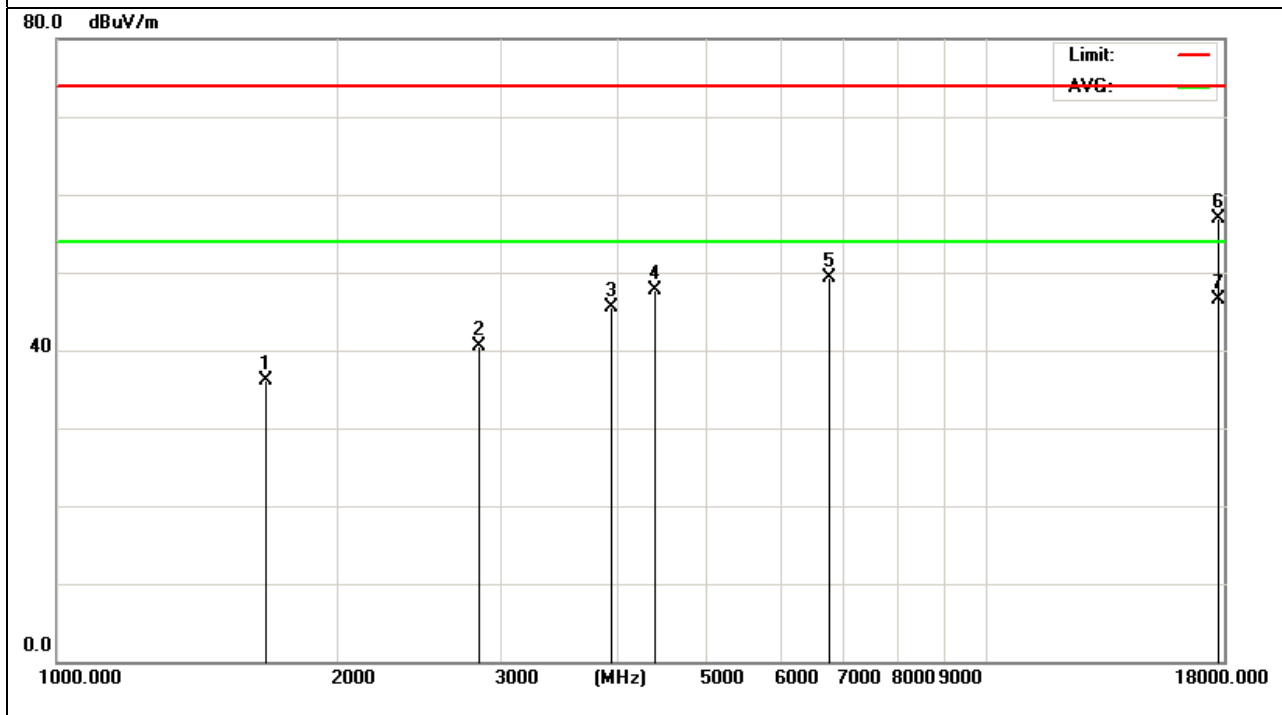
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n40 Channel 46	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1677.485	45.87	-9.69	36.18	74.00	-37.82	peak
2843.351	43.24	-2.64	40.60	74.00	-33.40	peak
3946.547	42.09	3.44	45.53	74.00	-28.47	peak
4388.898	43.24	4.50	47.74	74.00	-26.26	peak
6771.163	43.22	6.03	49.25	74.00	-24.75	peak
17698.235	32.04	24.89	56.93	74.00	-17.07	peak
17698.235	21.69	24.89	46.58	54.00	-7.42	AVG

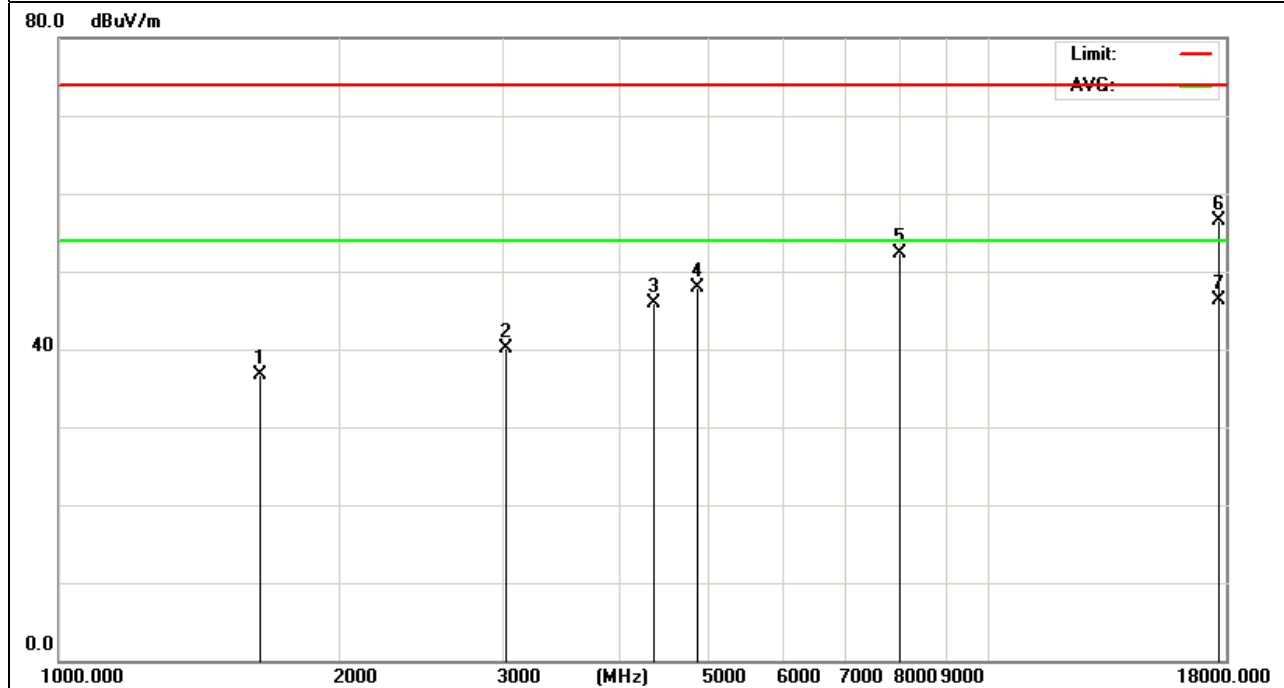
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n40 Channel 46	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1641.925	46.58	-9.79	36.79	74.00	-37.21	peak
3016.679	41.70	-1.64	40.06	74.00	-33.94	peak
4361.014	41.36	4.46	45.82	74.00	-28.18	peak
4855.563	42.88	5.11	47.99	74.00	-26.01	peak
8023.356	41.87	10.41	52.28	74.00	-21.72	peak
17665.554	31.59	24.91	56.50	74.00	-17.50	peak
17665.554	21.36	24.91	46.27	54.00	-7.73	AVG

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



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n40 Channel 46	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
18876.000	41.89	13.60	55.49	74.00	-18.51	peak
18876.000	32.48	13.60	46.08	54.00	-7.92	AVG

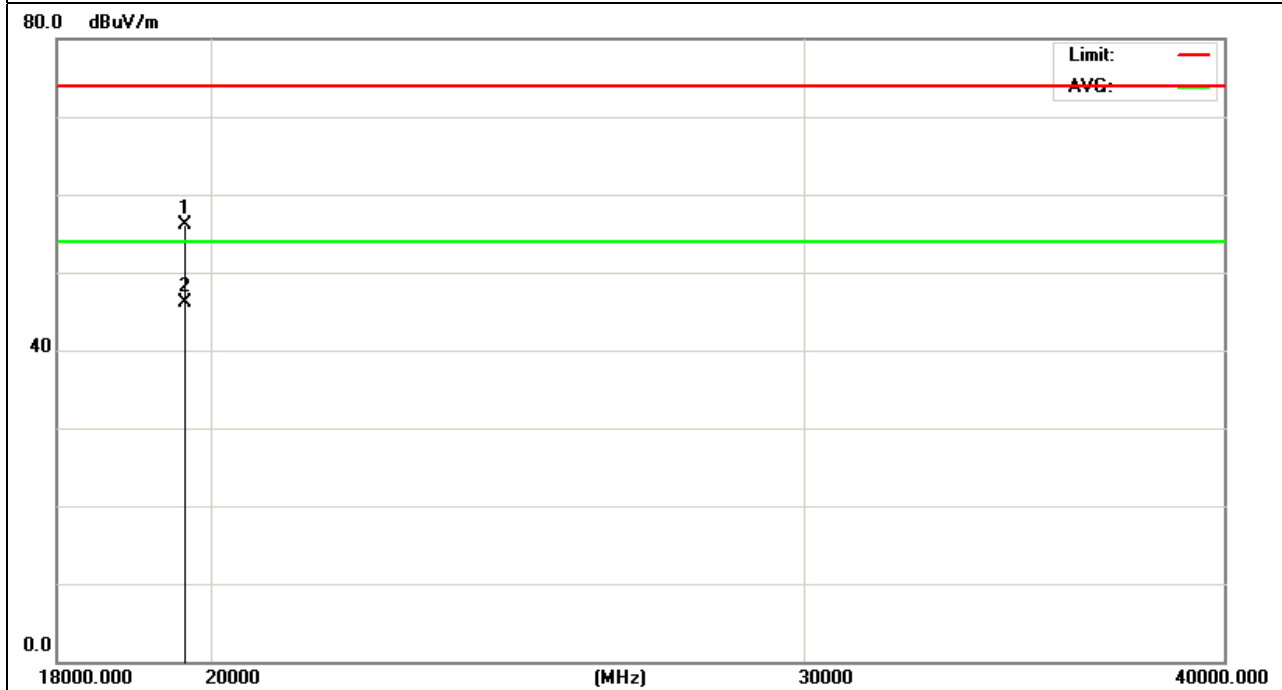
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11n40 Channel 46	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
19647.000	41.33	14.74	56.07	74.00	-17.93	peak
19647.000	31.42	14.74	46.16	54.00	-7.84	AVG

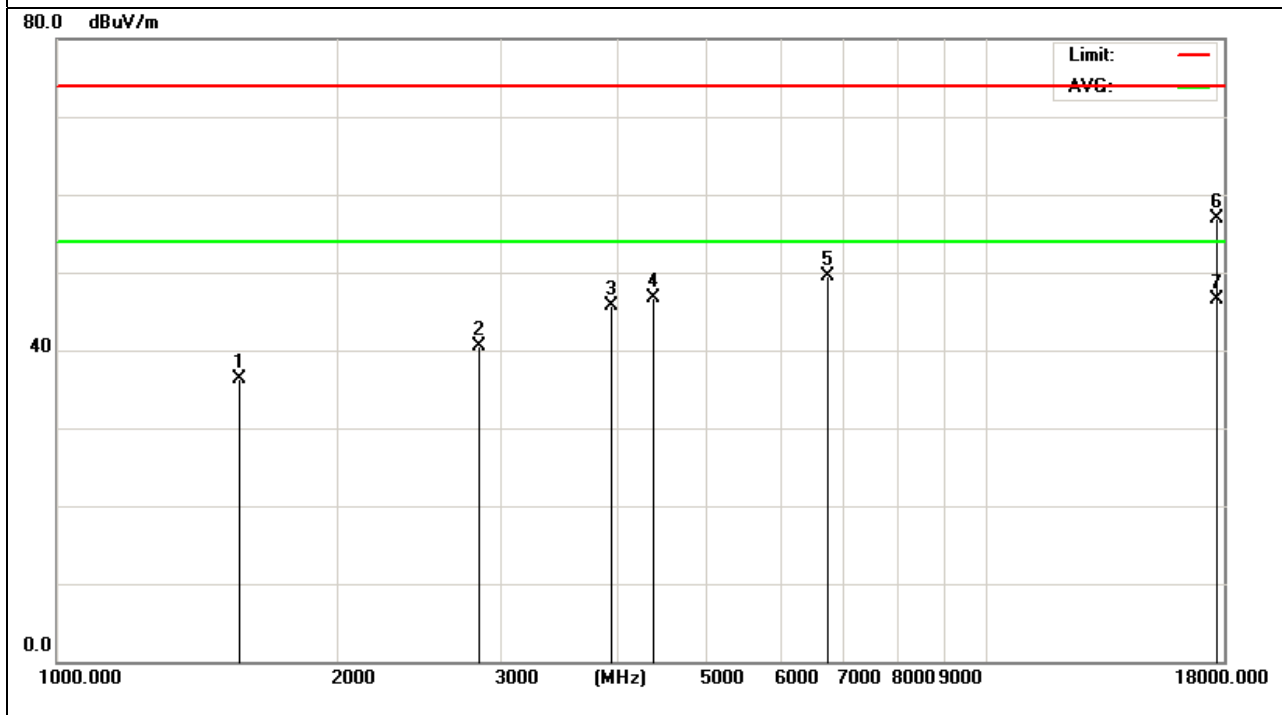
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11ac80 Channel 42	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
1568.524	46.26	-9.88	36.38	74.00	-37.62	peak
2846.993	43.14	-2.63	40.51	74.00	-33.49	peak
3942.247	42.32	3.42	45.74	74.00	-28.26	peak
4369.658	42.22	4.47	46.69	74.00	-27.31	peak
6744.326	43.47	6.02	49.49	74.00	-24.51	peak
17658.354	31.89	24.92	56.81	74.00	-17.19	peak
17658.354	21.55	24.92	46.47	54.00	-7.53	AVG

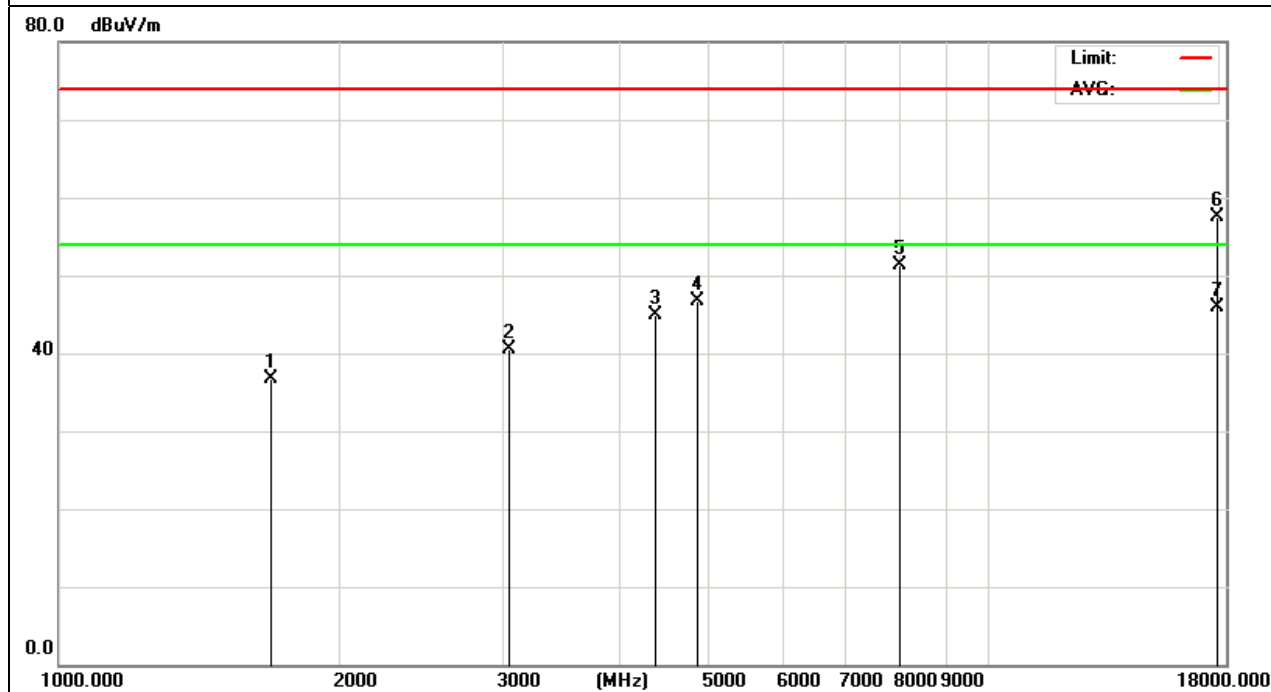
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11 ac80 Channel 42	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1689.554	46.41	-9.66	36.75	74.00	-37.25	peak
3049.983	41.98	-1.56	40.42	74.00	-33.58	peak
4367.715	40.36	4.46	44.82	74.00	-29.18	peak
4846.359	41.55	5.11	46.66	74.00	-27.34	peak
8016.554	40.89	10.40	51.29	74.00	-22.71	peak
17592.231	32.46	24.97	57.43	74.00	-16.57	peak
17592.231	21.03	24.97	46.00	54.00	-8.00	AVG

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



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11ac80 Channel 42	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
18664.000	42.05	13.28	55.33	74.00	-18.67	peak
18664.000	33.21	13.28	46.49	54.00	-7.51	AVG

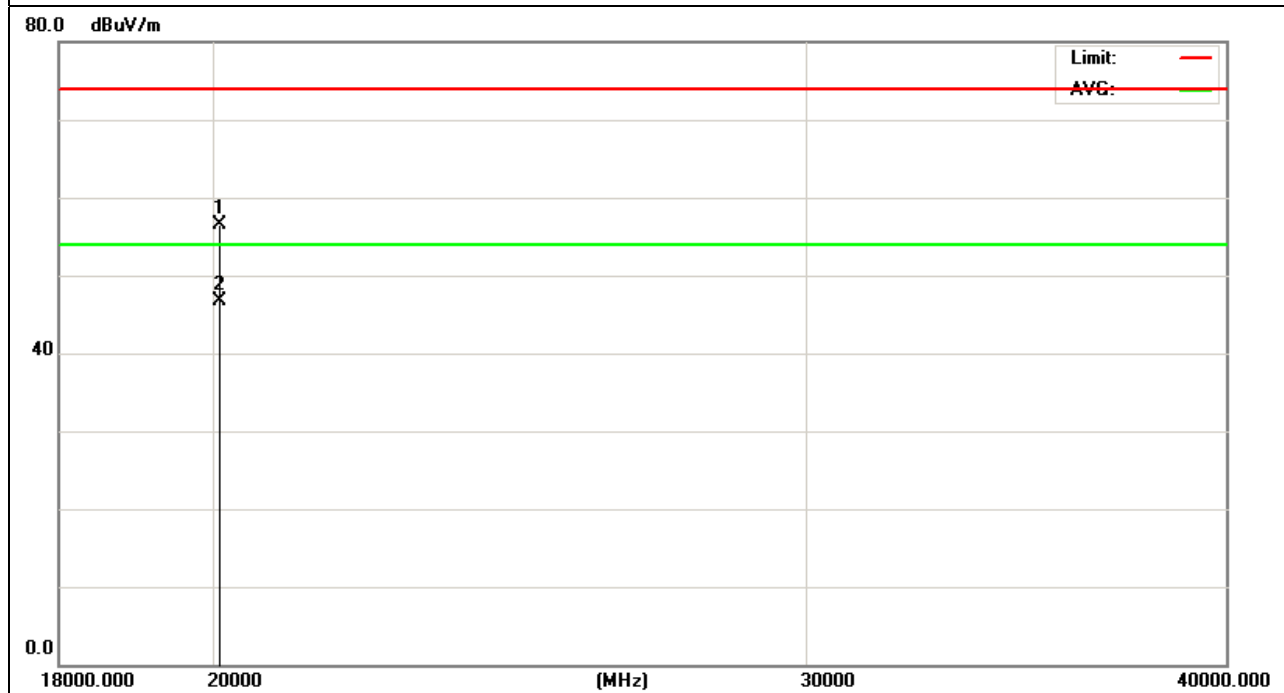
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	802.11 ac80 Channel 42	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
20087.000	41.06	15.39	56.45	74.00	-17.55	peak
20087.000	31.41	15.39	46.80	54.00	-7.20	AVG

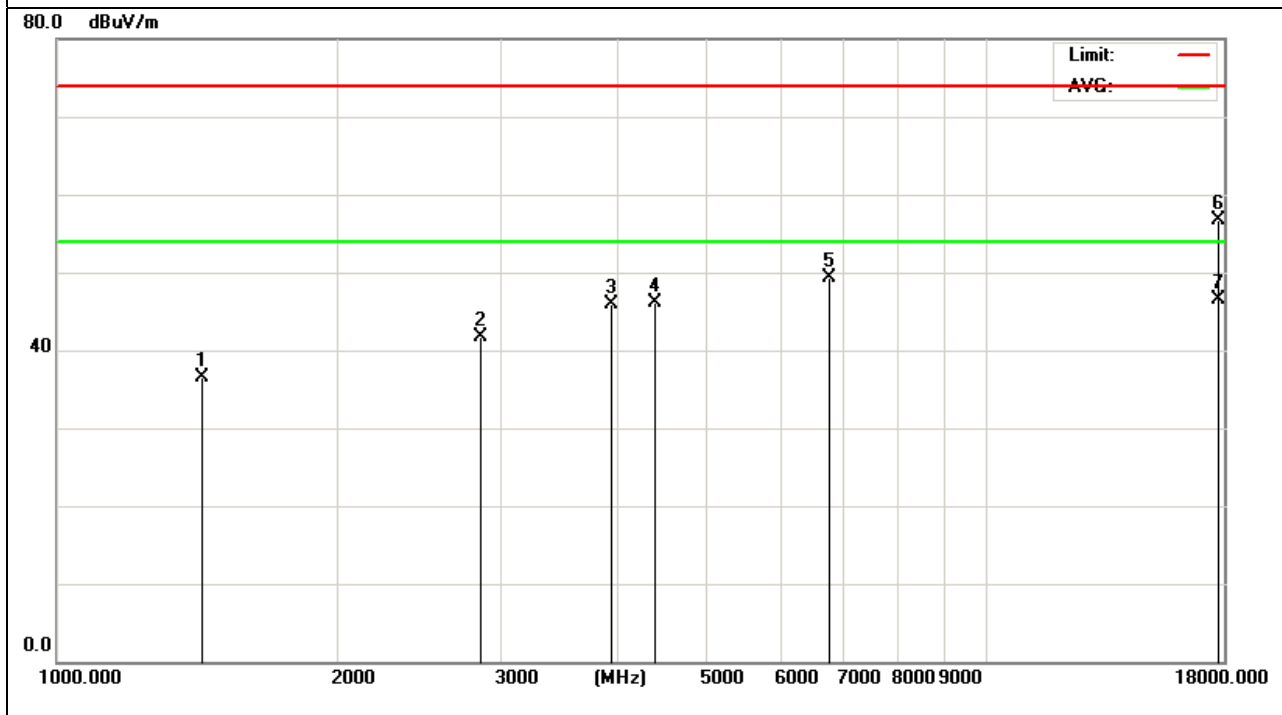
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	RX	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1428.889	46.65	-10.18	36.47	74.00	-37.53	peak
2847.493	44.23	-2.62	41.61	74.00	-32.39	peak
3946.548	42.47	3.44	45.91	74.00	-28.09	peak
4388.654	41.59	4.50	46.09	74.00	-27.91	peak
6758.533	43.22	6.02	49.24	74.00	-24.76	peak
17693.236	31.78	24.89	56.67	74.00	-17.33	peak
17693.236	21.56	24.89	46.45	54.00	-7.55	AVG

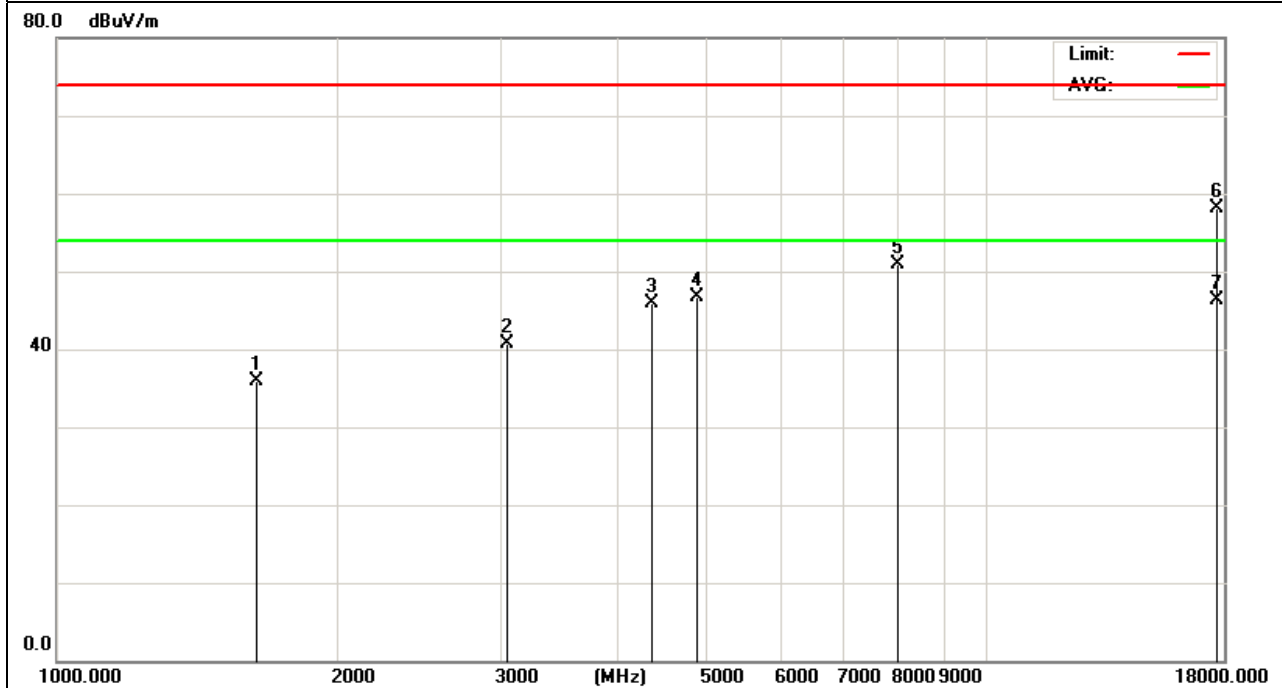
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	RX	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
1637.886	45.77	-9.80	35.97	74.00	-38.03	peak
3046.768	42.19	-1.57	40.62	74.00	-33.38	peak
4366.998	41.36	4.46	45.82	74.00	-28.18	peak
4860.054	41.55	5.12	46.67	74.00	-27.33	peak
8016.224	40.58	10.40	50.98	74.00	-23.02	peak
17689.857	33.26	24.90	58.16	74.00	-15.84	peak
17689.857	21.46	24.90	46.36	54.00	-7.64	AVG

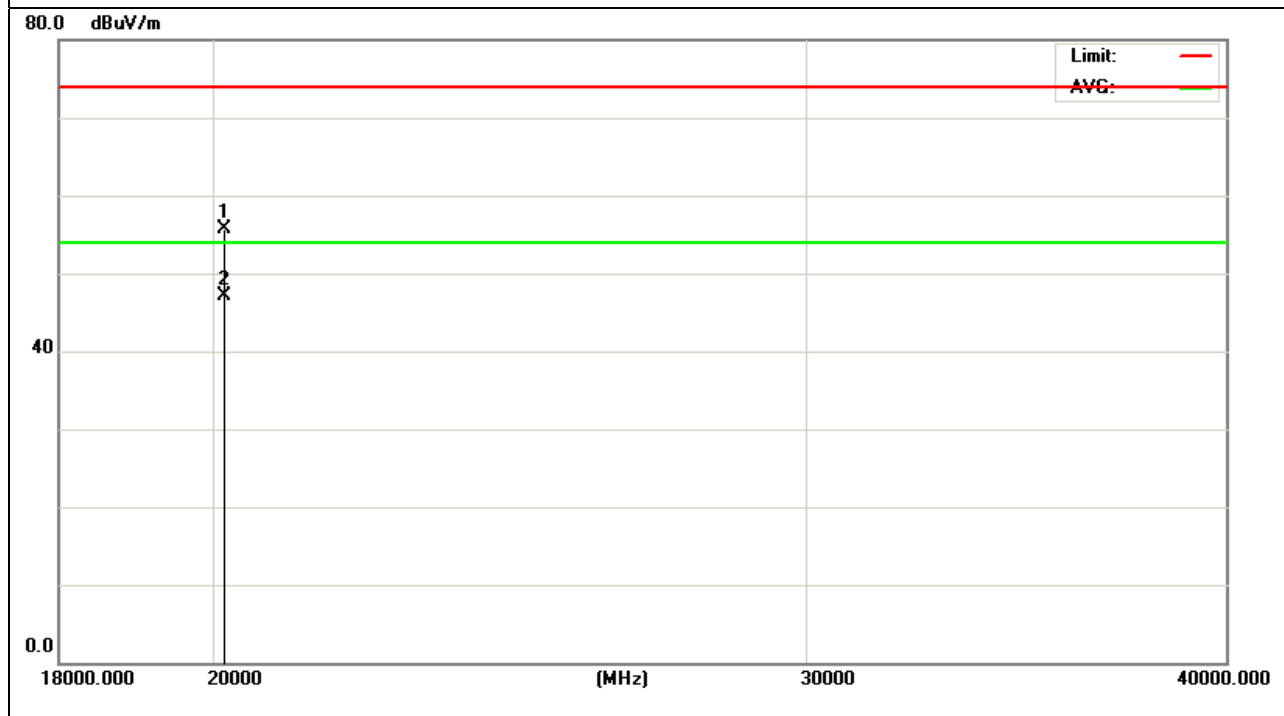
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	RX	Polarization :	Horizontal
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
20149.000	40.25	15.49	55.74	74.00	-18.26	peak
20149.000	31.59	15.49	47.08	54.00	-6.92	AVG

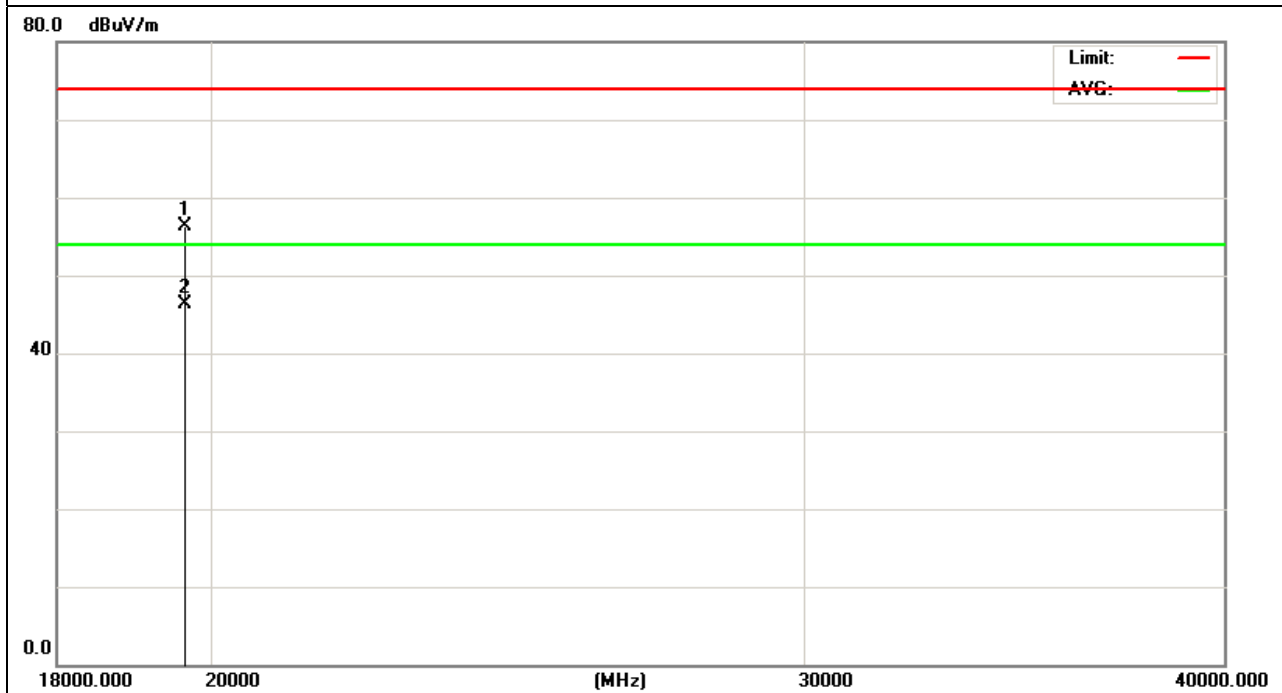
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2019-08-15
Test Mode :	RX	Polarization :	Vertical
Measurement Distance	3 m	Frequency Range	1GHz to 40GHz
Test Power :	DC 12V from adapter		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
19647.000	41.66	14.74	56.40	74.00	-17.60	peak
19647.000	31.59	14.74	46.33	54.00	-7.67	AVG

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



No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.

3.2.6 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

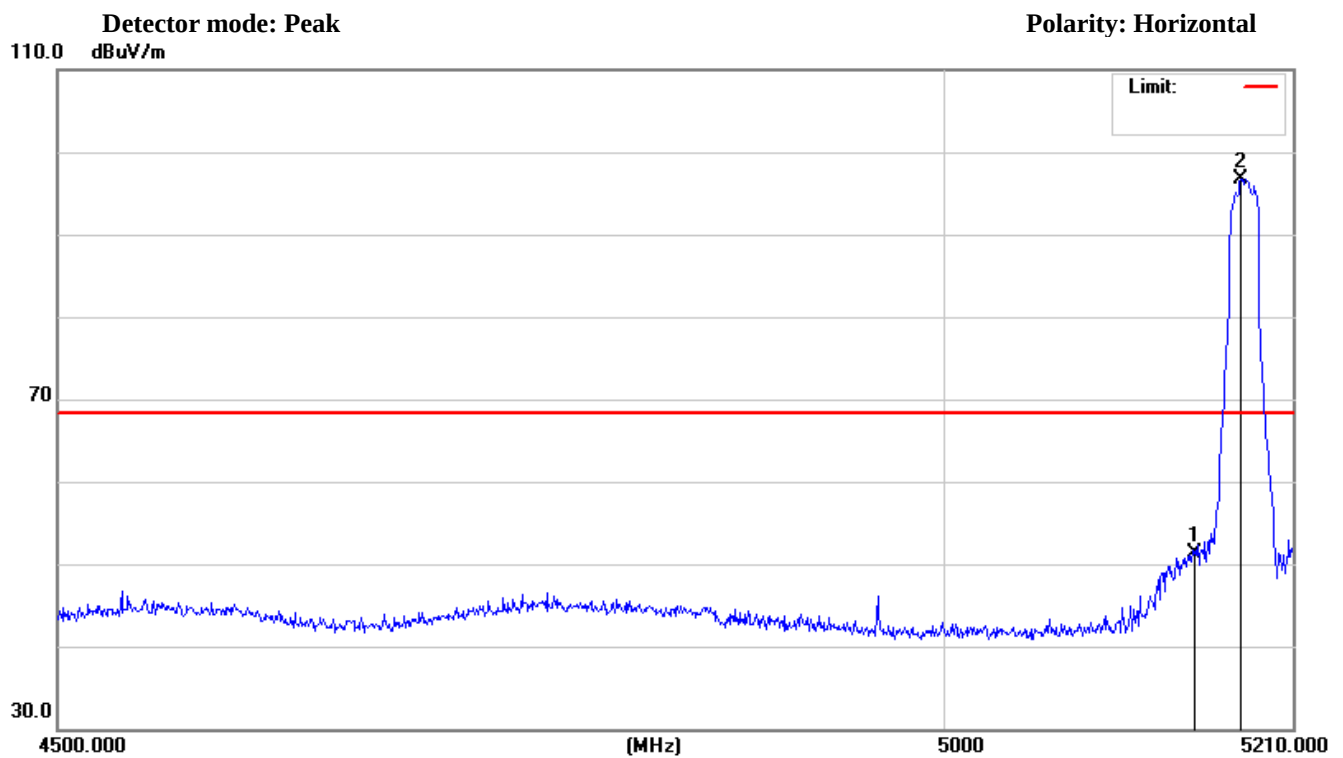
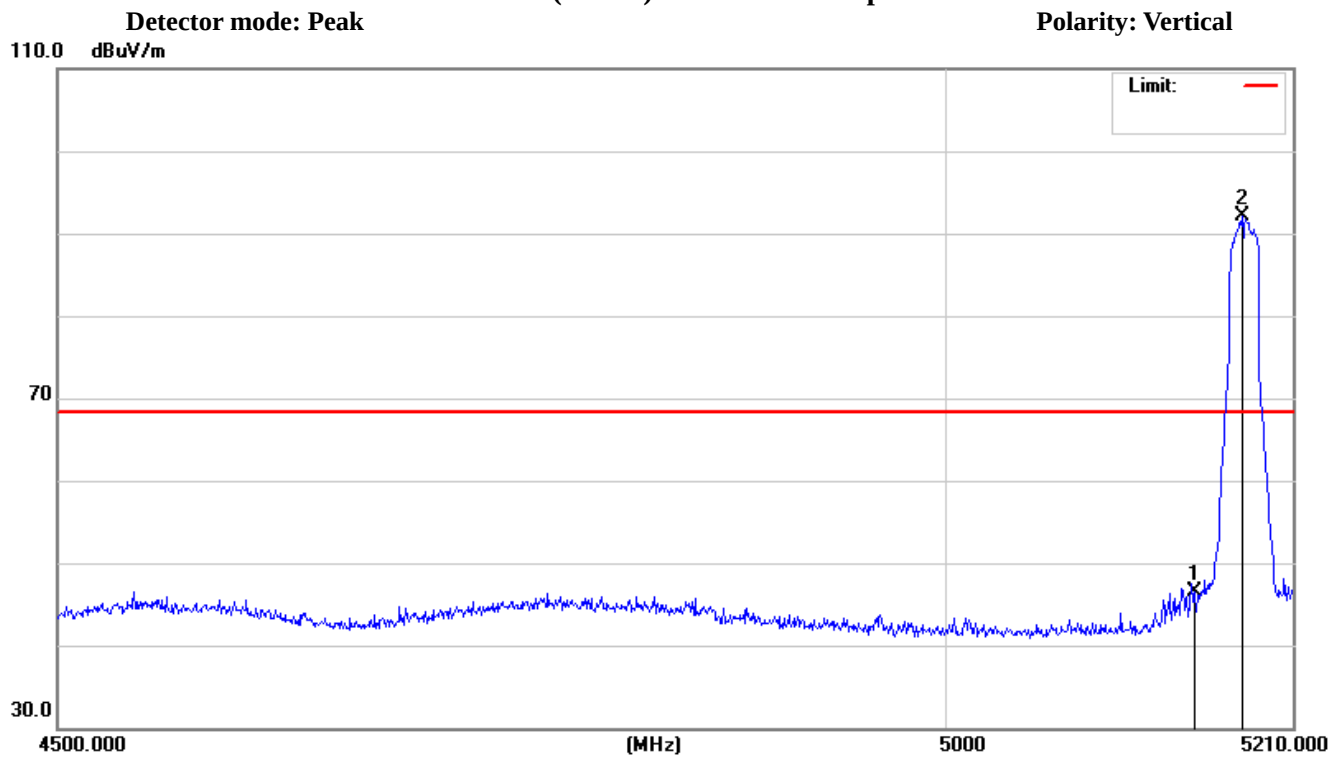
EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	51%
Pressure :	1010 hPa	Test Voltage :	DC 12V from adapter
Test Mode :	802.11a		
Note :	1. The transmitter was setup to transmit at the lowest channel (CH36). Then the field strength was measured at 4500-5150 MHz. 2. The transmitter was setup to transmit at the highest channel (CH48). Then the field strength was measured at 5190-5410 MHz. 3. The data of 5150MHz and 5350MHz was the worst.		

Freq. (MHz) (Peak)	Ant.Pol. H/V	Reading	Ant/CF	Act	Limit	Note
		Peak (dBuv)	Peak (dB)	Peak (dBuv/m)	Peak (dBuv/m)	
5150.000	V	41.66	4.78	46.44	68.20	CH36
5179.470	V	87.33	4.69	---	---	CH36
5150.000	H	46.60	4.78	51.38	68.20	CH36
5178.760	H	92.03	4.69	---	---	CH36
5241.480	V	86.61	4.53	---	---	CH48
5350.000	V	38.53	4.30	42.83	68.20	CH48
5241.480	H	91.68	4.53	---	---	CH48
5350.000	H	38.76	4.30	43.06	68.20	CH48

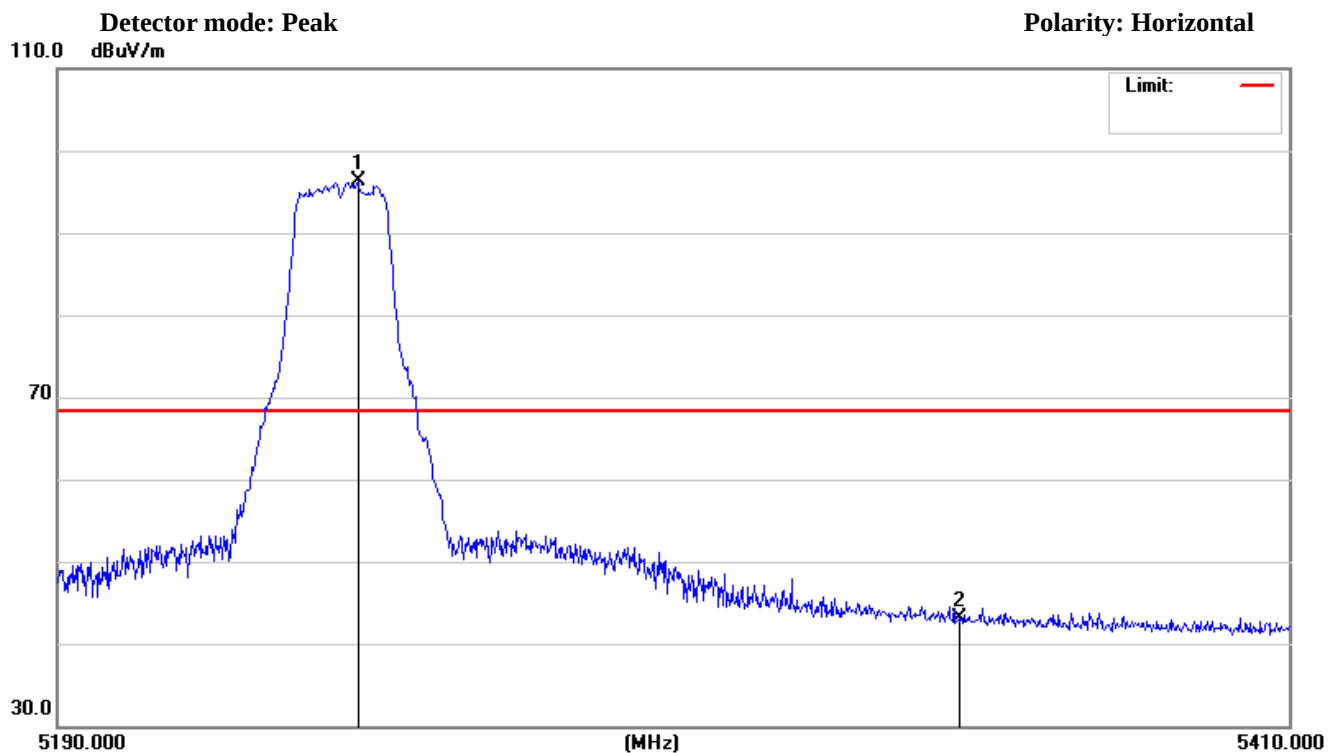
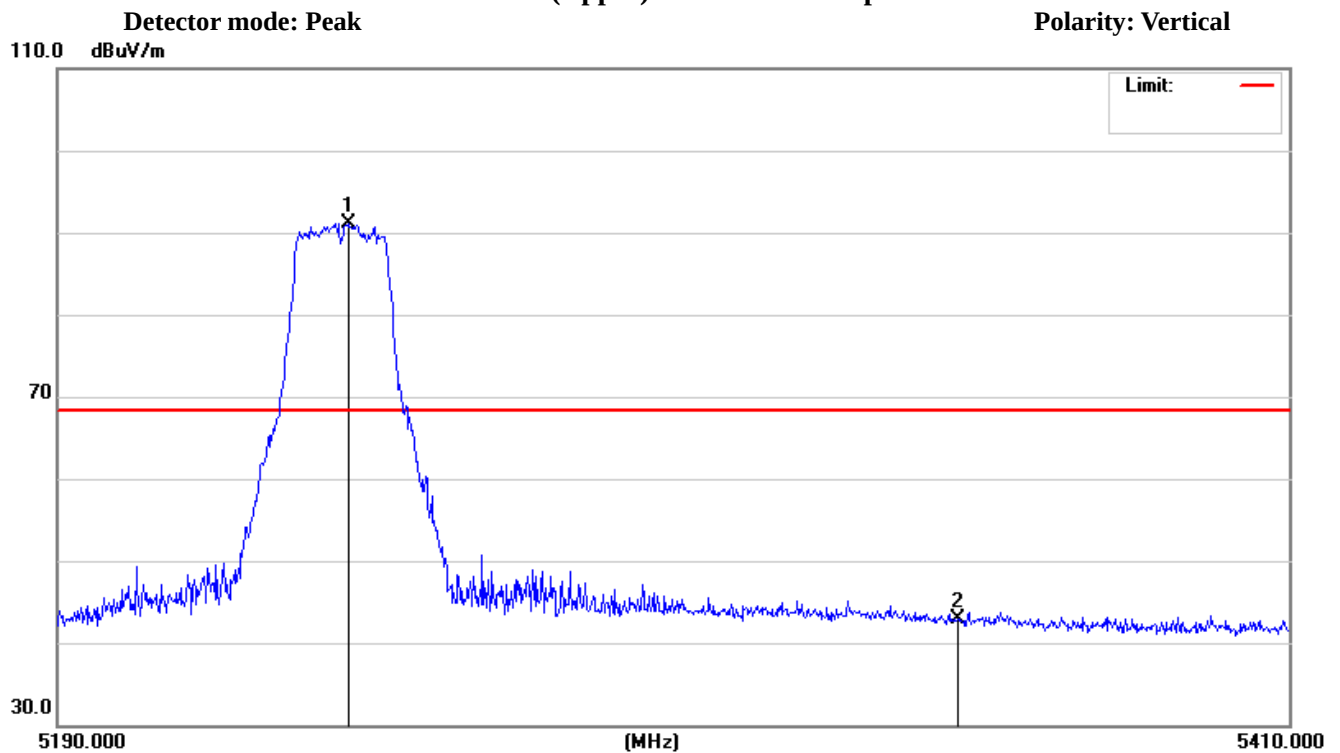
Remark

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode
- (2) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (3) Corr.Factor = Antenna Factor + Cable Loss – Pre-amplifier.

802.11a (5.15GHz-5.25GHz) CH 36 (Lower) Data rate 6Mbps



802.11a (5.15GHz-5.25GHz) CH 48 (Upper) Data rate 6Mbps



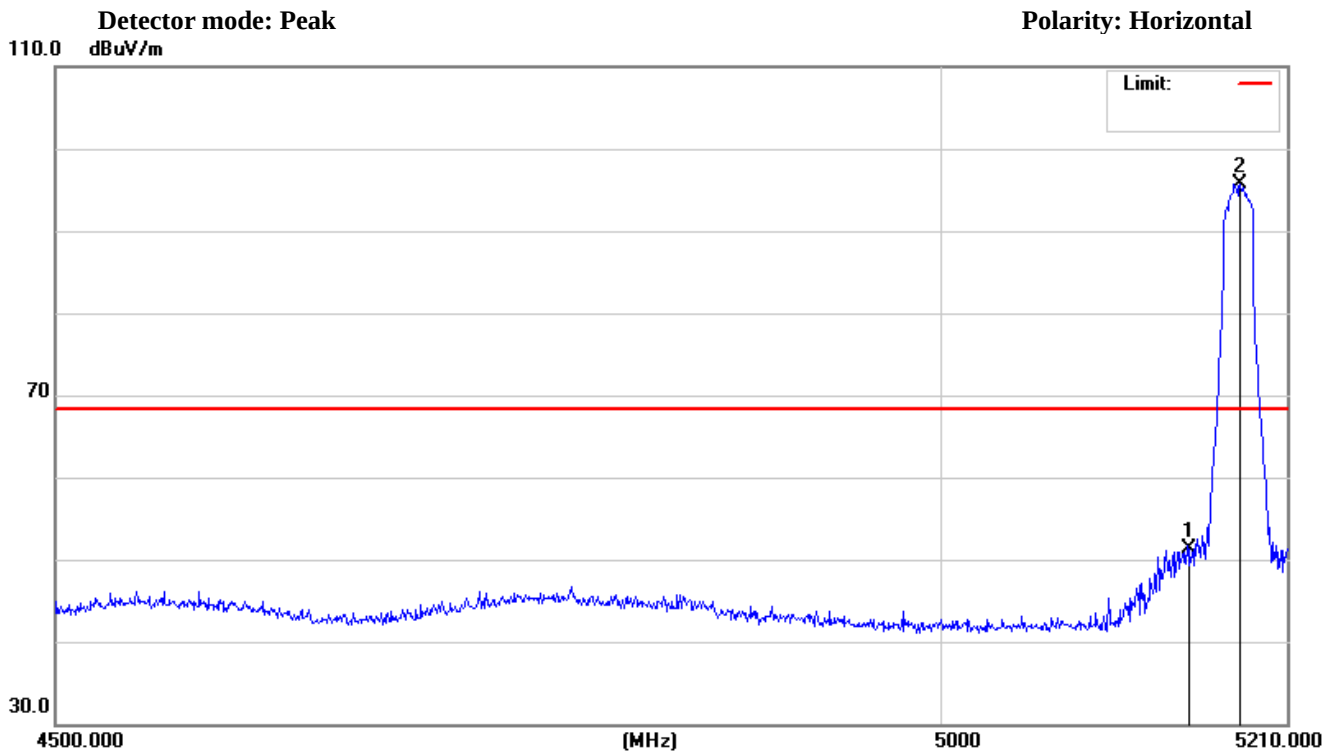
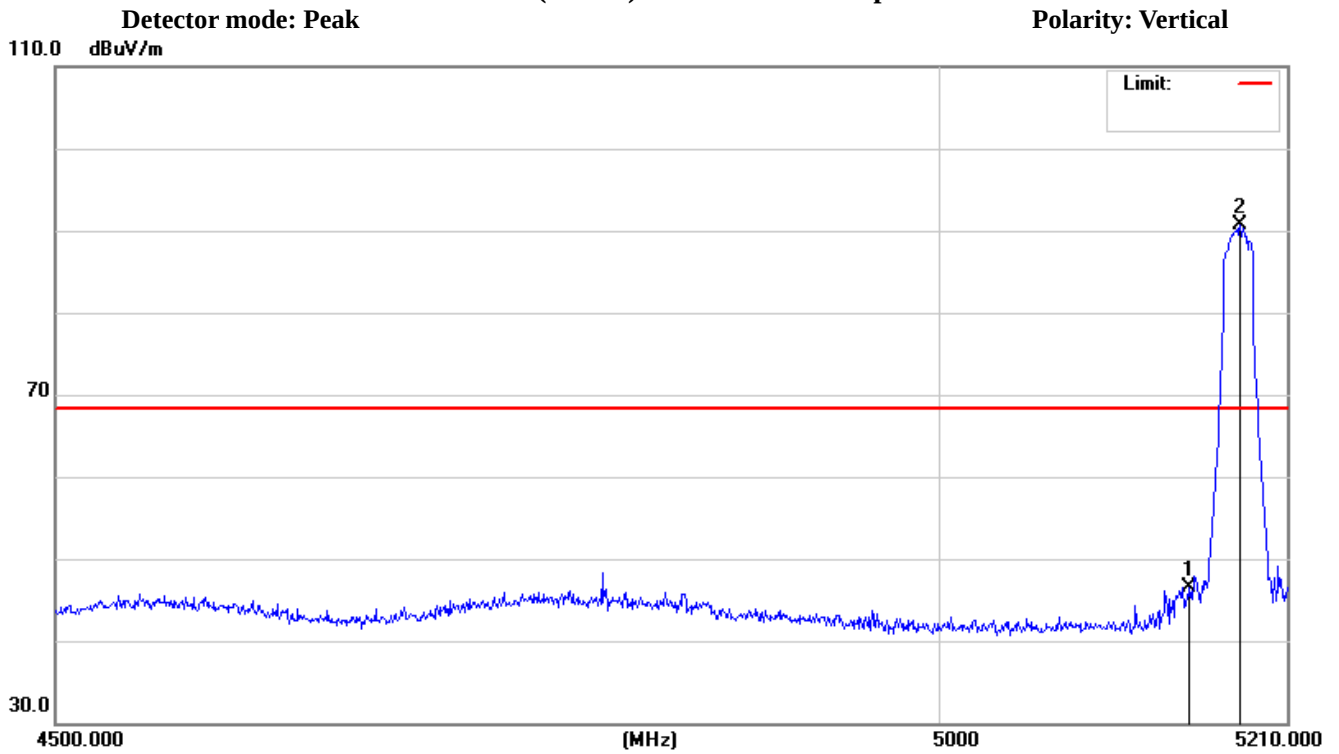
EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	51%
Pressure :	1010 hPa	Test Voltage :	DC 12V from adapter
Test Mode :	802.11n BW20MHz		
Note :	1. The transmitter was setup to transmit at the lowest channel (CH36). Then the field strength was measured at 4500-5150 MHz. 2. The transmitter was setup to transmit at the highest channel (CH48). Then the field strength was measured at 5190-5410 MHz. 3. The data of 5150MHz and 5350MHz was the worst.		

Freq. (MHz) (Peak)	Ant. Pol. H/V	Reading	Ant/CF	Act	Limit	Note
		Peak (dBuv)	Peak (dB)	Peak (dBuv/m)	Peak (dBuv/m)	
5150.000	V	41.77	4.78	46.55	68.20	CH36
5178.760	V	85.96	4.69	---	---	CH36
5150.000	H	46.42	4.78	51.20	68.20	CH36
5178.760	H	91.10	4.69	---	---	CH36
5241.260	V	90.00	4.53	---	---	CH48
5350.000	V	38.05	4.30	42.35	68.20	CH48
5241.260	H	85.51	4.53	---	---	CH48
5350.000	H	39.09	4.30	43.39	68.20	CH48

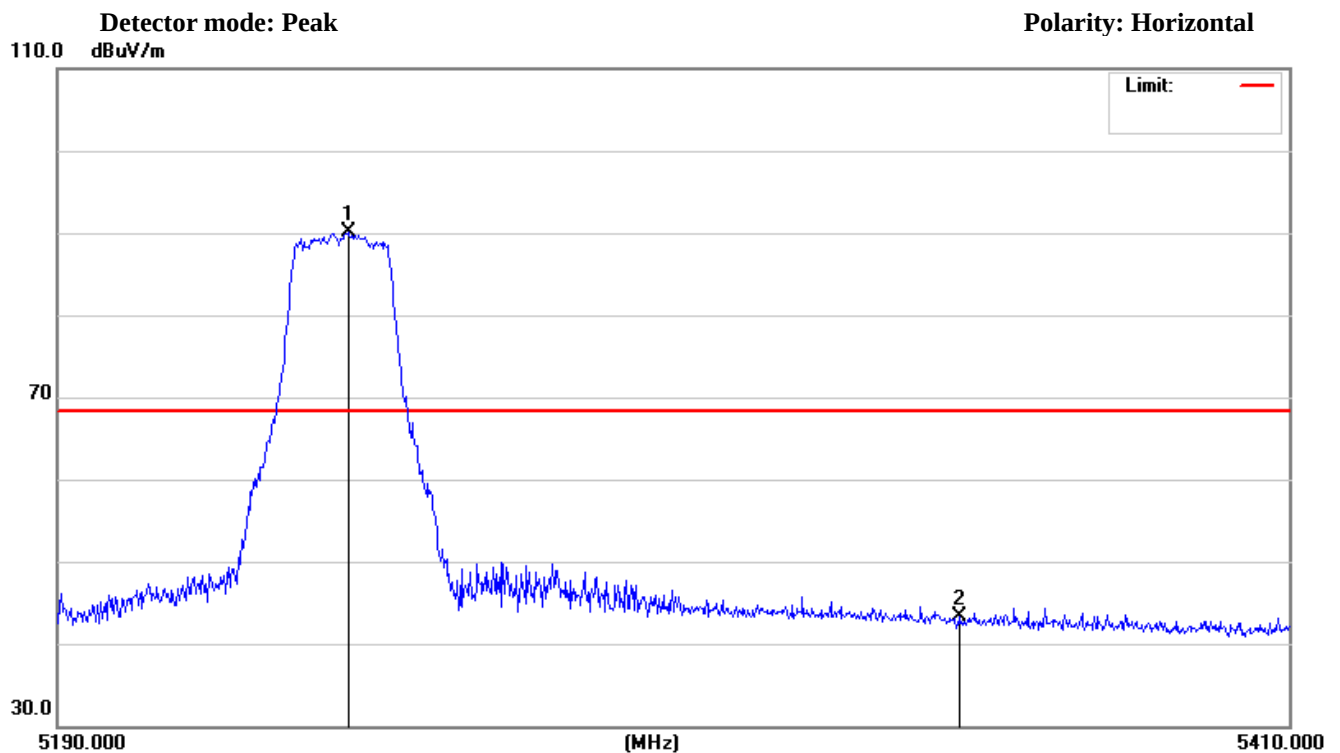
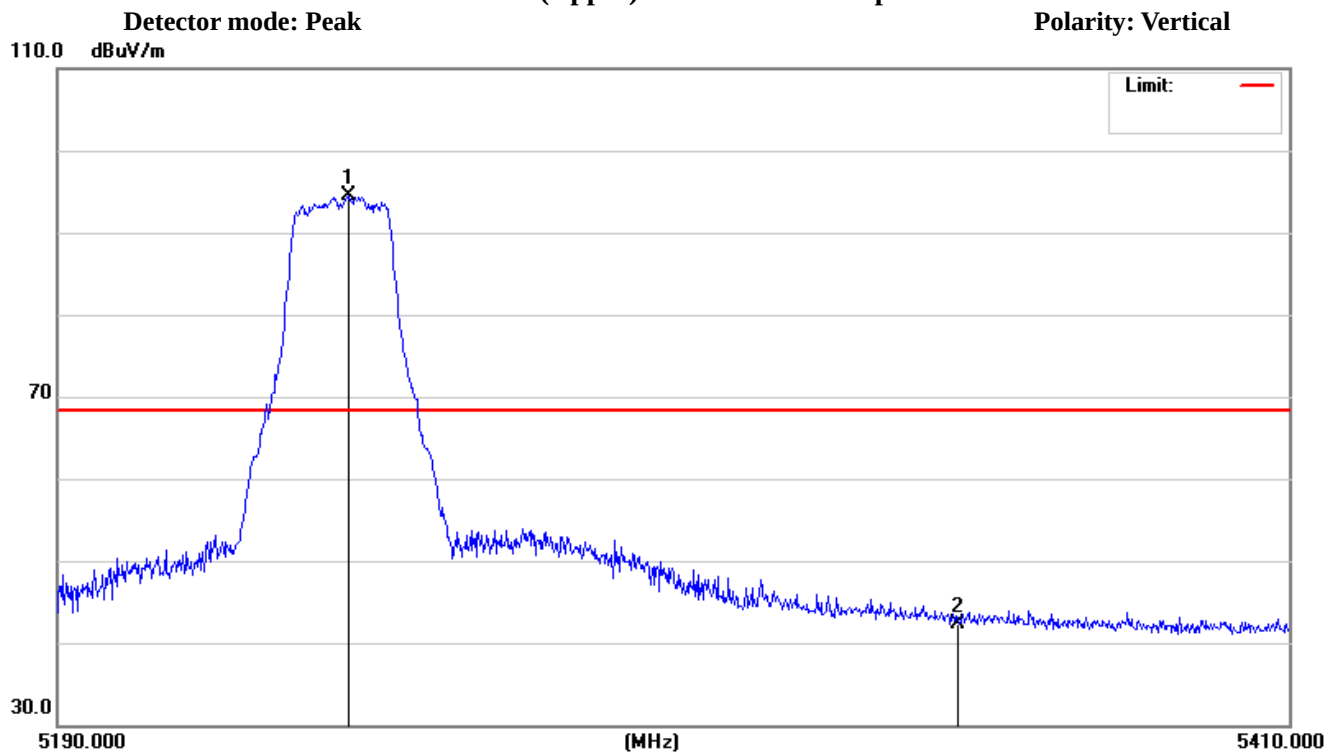
Remark

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode
- (2) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (3) Corr.Factor = Antenna Factor + Cable Loss – Pre-amplifier.

802.11n(20M) (5.15GHz-5.25GHz)
CH 36 (Lower) Data rate 7.2Mbps



802.11n(20M) (5.15GHz-5.25GHz)
CH 48 (Upper) Data rate 7.2Mbps



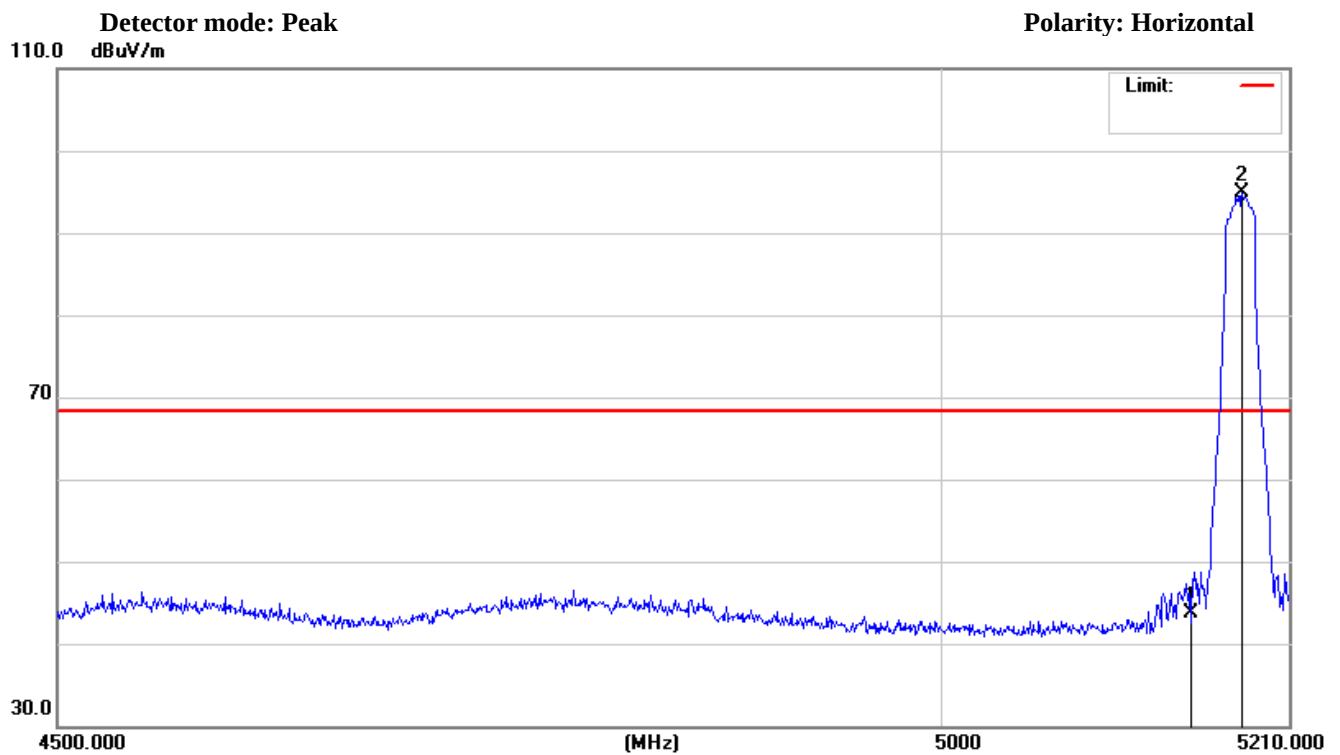
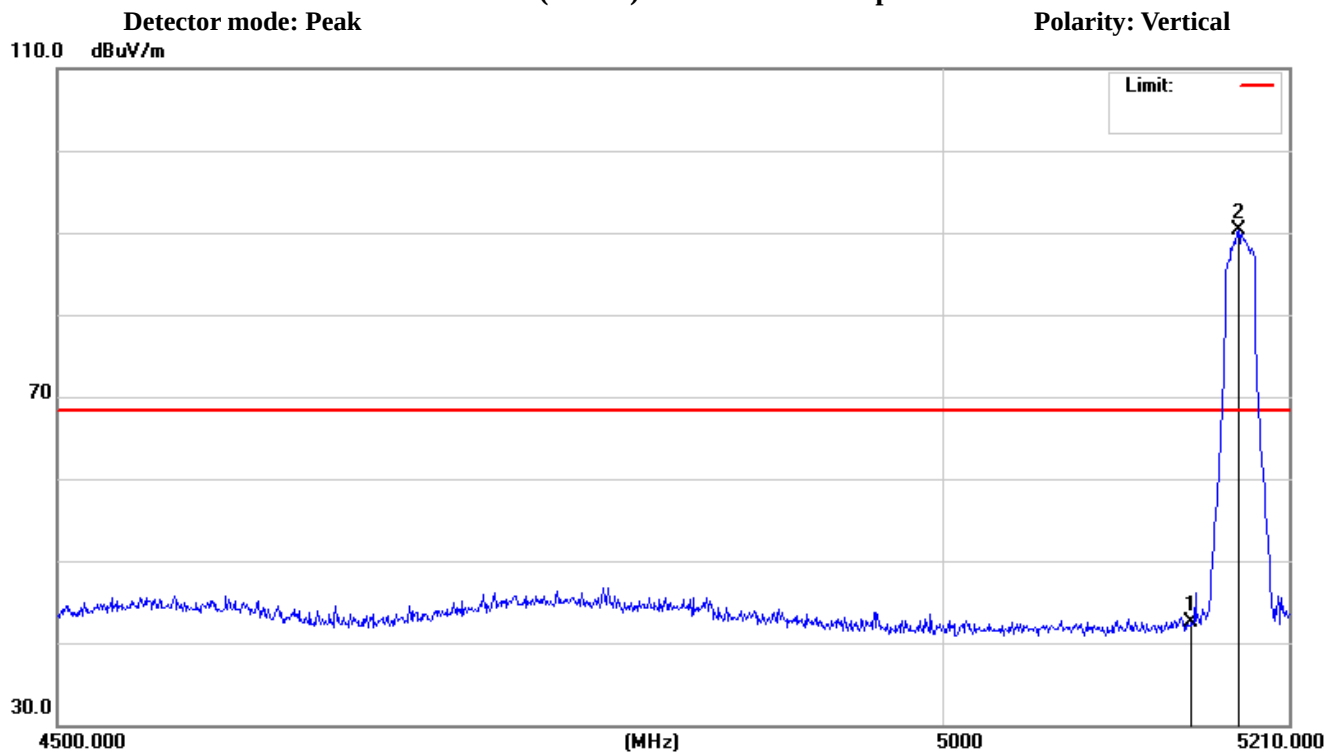
EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	51%
Pressure :	1010 hPa	Test Voltage :	DC 12V from adapter
Test Mode :	802.11ac BW20MHz		
Note :	1. The transmitter was setup to transmit at the lowest channel (CH36). Then the field strength was measured at 4500-5150 MHz. 2. The transmitter was setup to transmit at the highest channel (CH48). Then the field strength was measured at 5190-5410 MHz. 3. The data of 5150MHz and 5350MHz was the worst.		

Freq. (MHz) (Peak)	Ant. Pol. H/V	Reading	Ant/CF	Act	Limit	Note
		Peak (dBuv)	Peak (dB)	Peak (dBuv/m)	Peak (dBuv/m)	
5150.000	V	37.73	4.78	42.51	68.20	CH36
5178.760	V	85.55	4.69	---	---	CH36
5150.000	H	39.02	4.78	43.80	68.20	CH36
5178.760	H	90.18	4.69	---	---	CH36
5241.260	V	85.01	4.53	---	---	CH48
5350.000	V	38.69	4.30	42.99	68.20	CH48
5241.480	H	89.61	4.53	---	---	CH48
5350.000	H	38.80	4.30	43.10	68.20	CH48

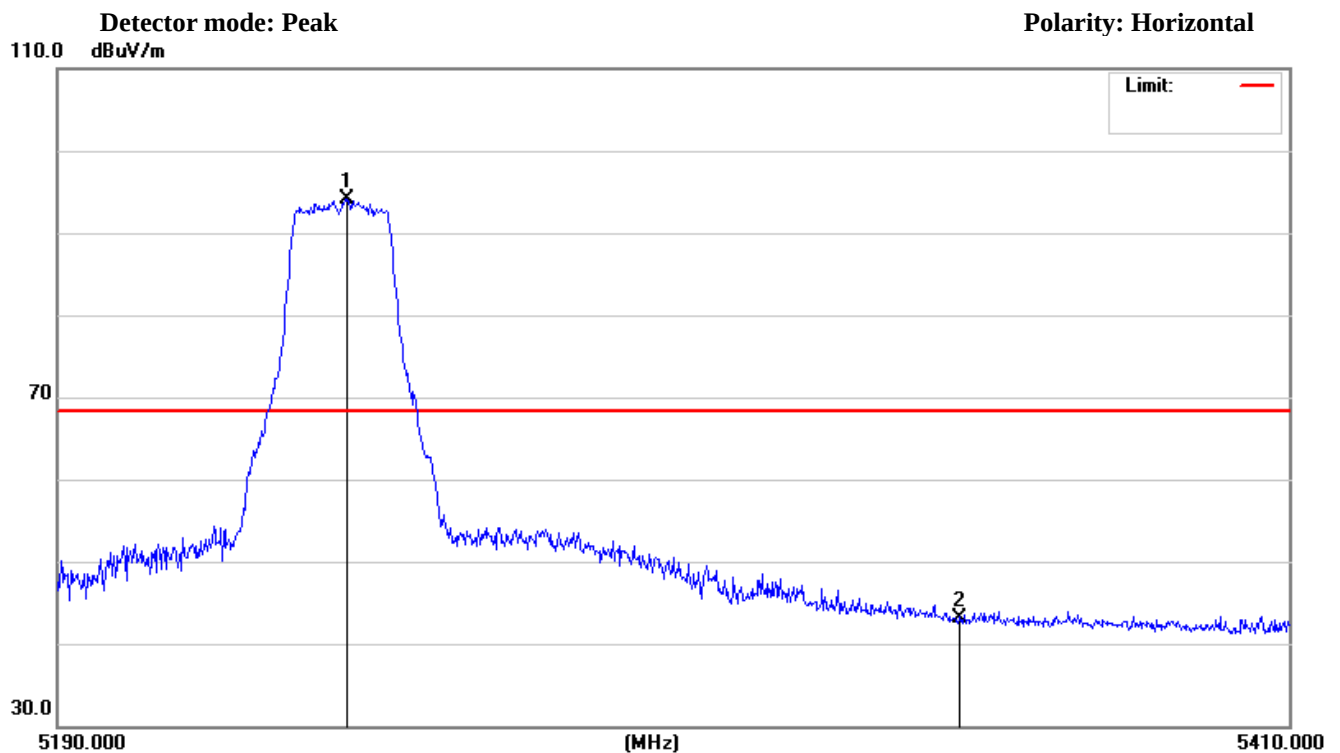
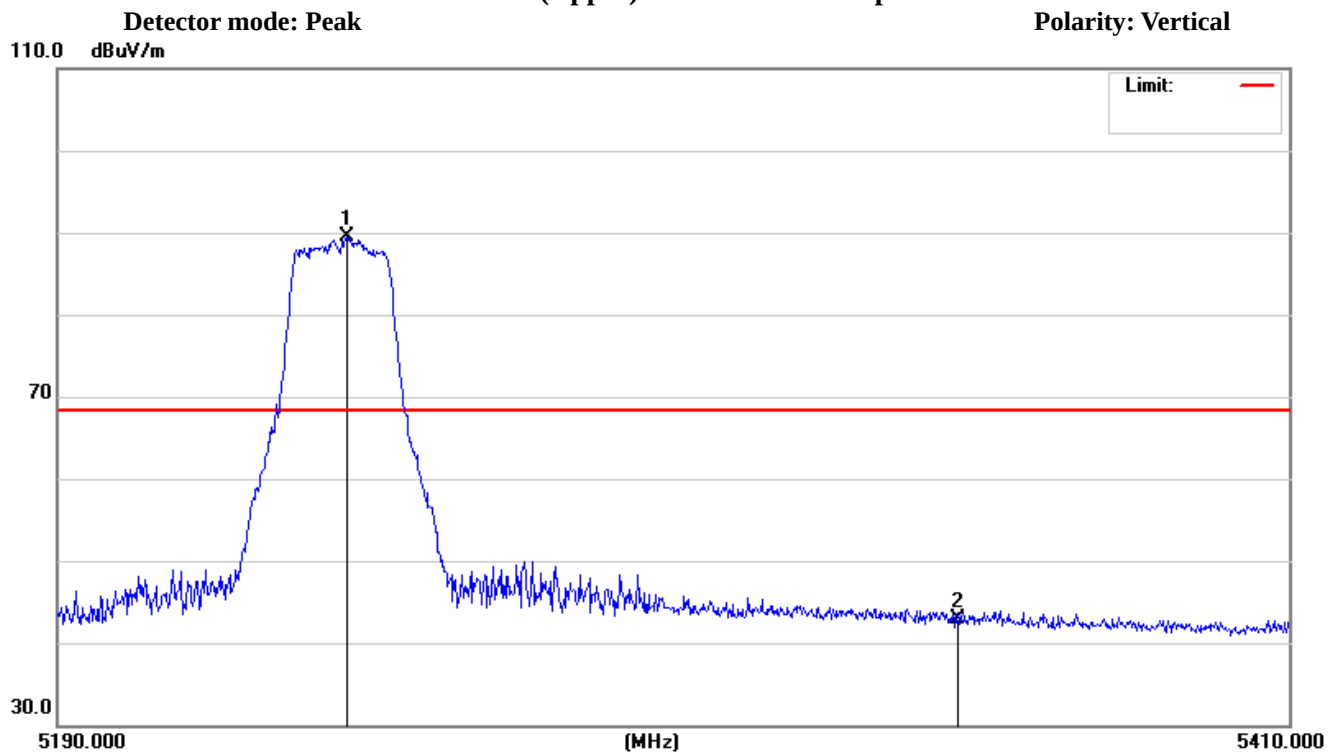
Remark

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode
- (2) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (3) Corr.Factor = Antenna Factor + Cable Loss – Pre-amplifier.

802.11n(20M) (5.15GHz-5.25GHz)
CH 36 (Lower) Data rate 7.2Mbps



802.11n(20M) (5.15GHz-5.25GHz)
CH 48 (Upper) Data rate 7.2Mbps



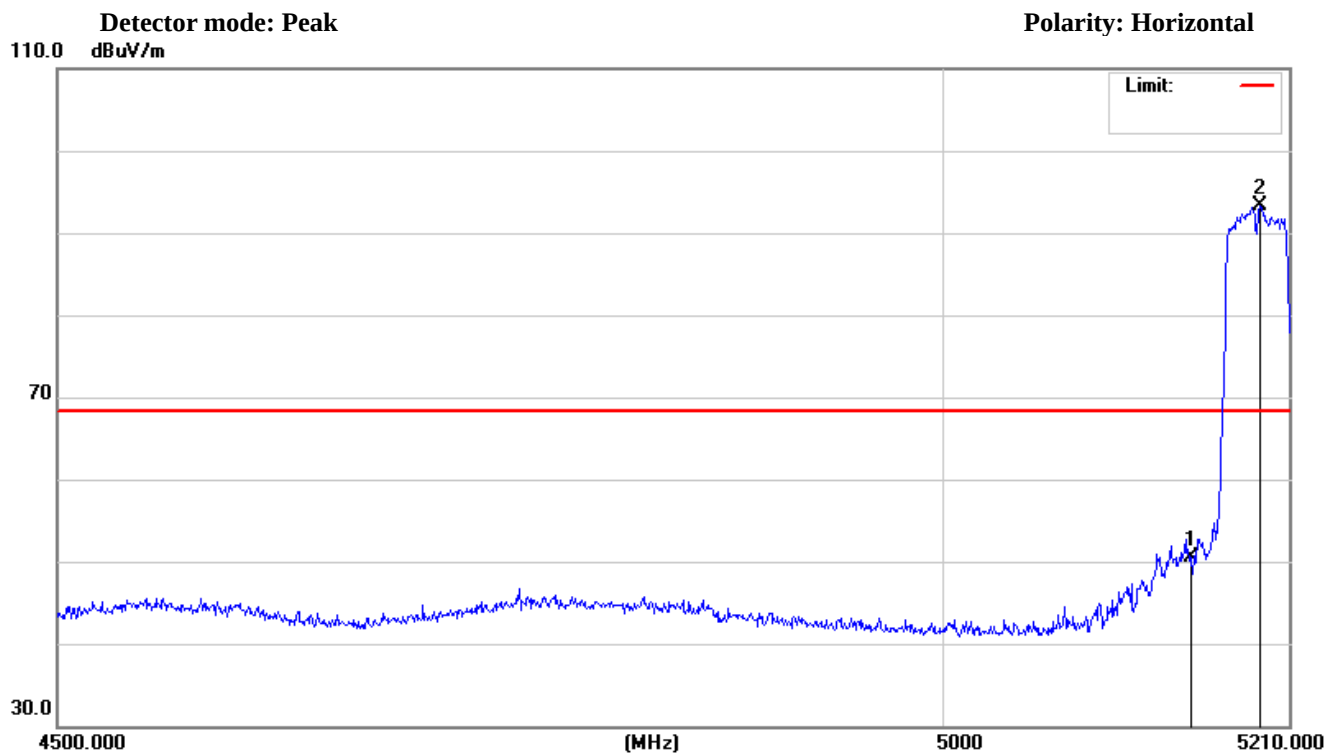
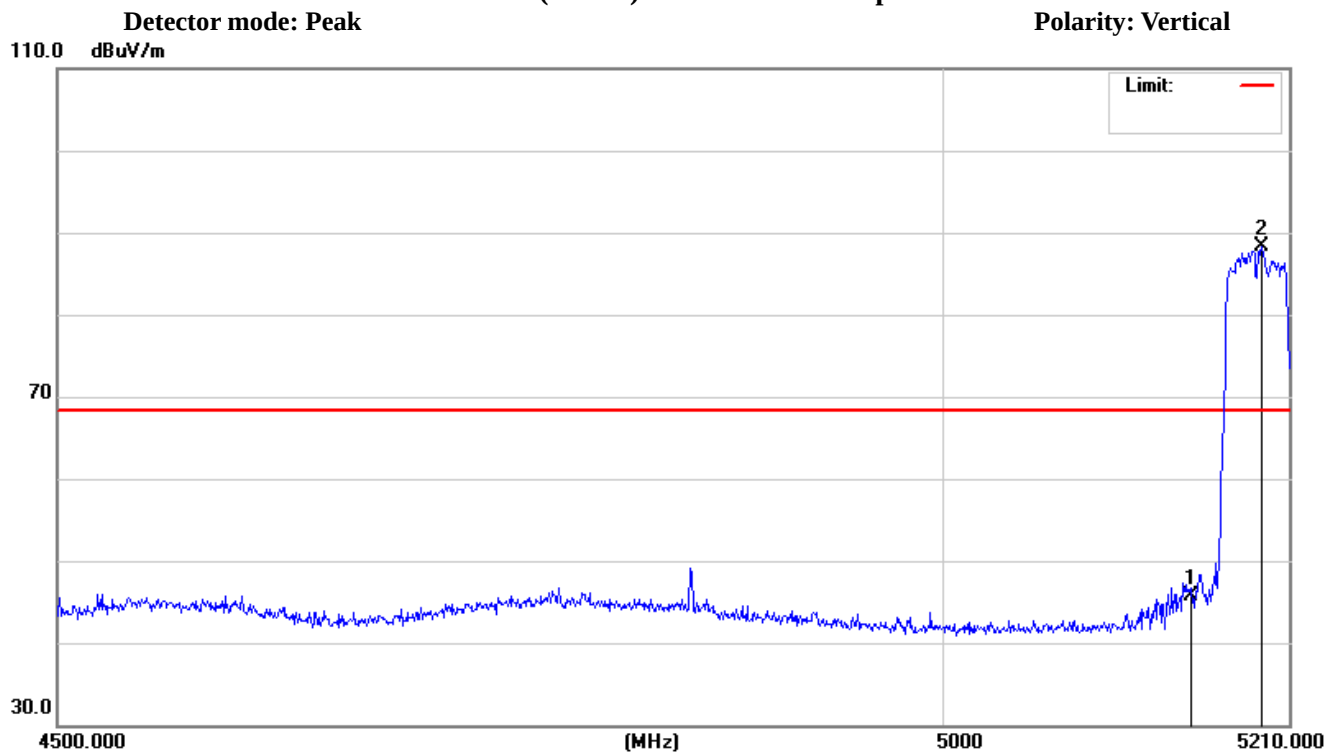
EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	51%
Pressure :	1010 hPa	Test Voltage :	DC 12V from adapter
Test Mode :	802.11n BW40MHz		
Note :	1. The transmitter was setup to transmit at the lowest channel (CH38). Then the field strength was measured at 4500-5150 MHz. 2. The transmitter was setup to transmit at the highest channel (CH46). Then the field strength was measured at 5190-5410 MHz. 3. The data of 5150MHz and 5350MHz was the worst.		

Freq. (MHz) (Peak)	Ant.Pol. H/V	Reading	Ant/CF	Act	Limit	Note
		Peak (dBuv)	Peak (dB)	Peak (dBuv/m)	Peak (dBuv/m)	
5150.000	V	40.98	4.78	45.76	68.20	CH38
5187.990	V	83.71	4.66	---	---	CH38
5150.000	H	45.74	4.78	50.52	68.20	CH38
5188.700	H	88.72	4.65	---	---	CH38
5232.900	V	84.64	4.54	---	---	CH46
5350.000	V	38.88	4.30	43.18	68.20	CH46
5232.680	H	89.39	4.55	---	---	CH46
5350.000	H	38.60	4.30	42.90	68.20	CH46

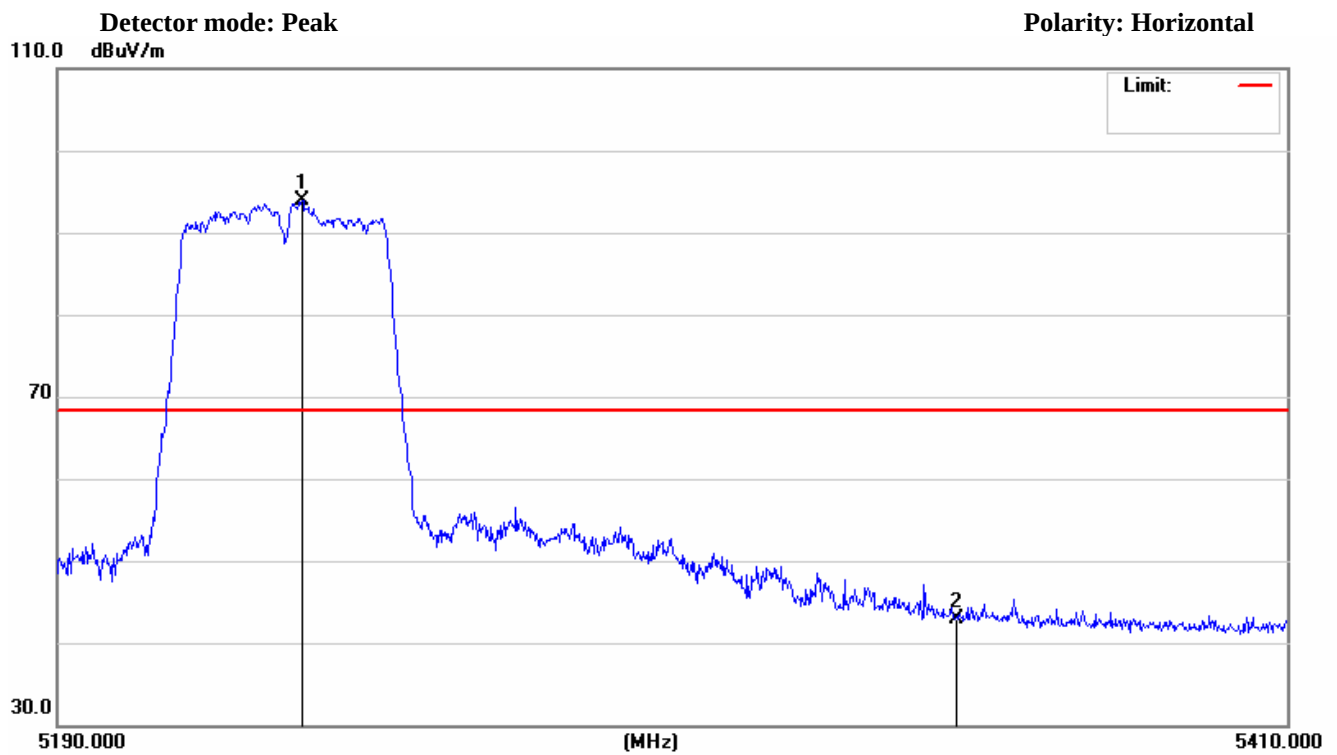
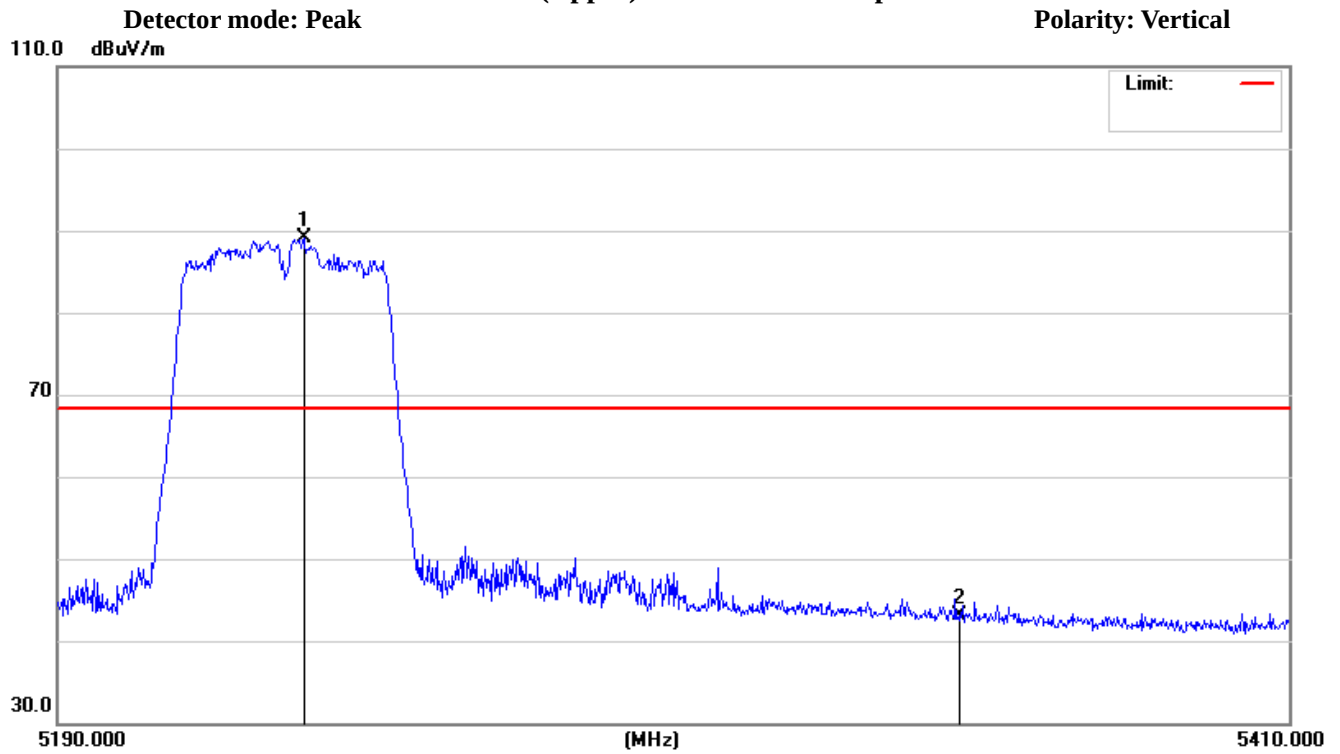
Remark

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode
- (2) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (3) Corr.Factor = Antenna Factor + Cable Loss – Pre-amplifier.

802.11n(40M) (5.15GHz-5.25GHz)
CH 38 (Lower) Data rate 7.2Mbps



802.11n(40M) (5.15GHz-5.25GHz)
CH 46 (Upper) Data rate 7.2Mbps



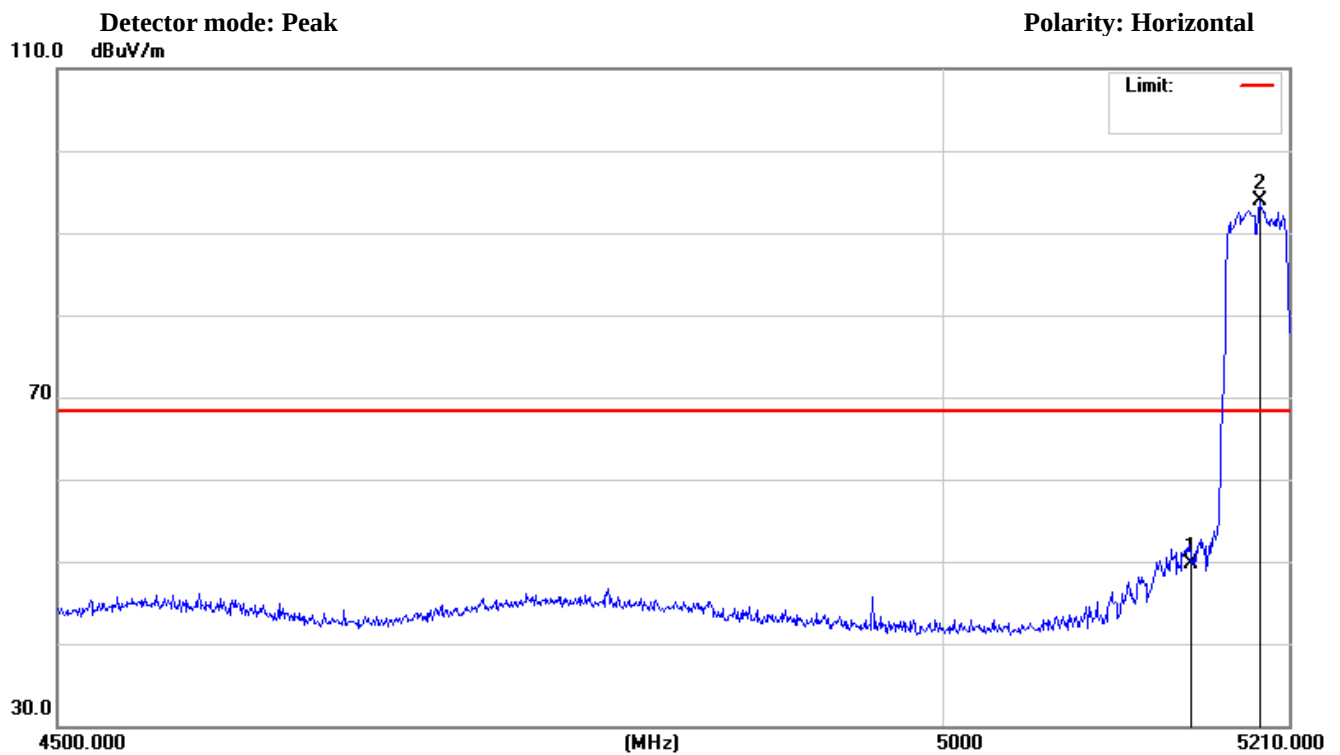
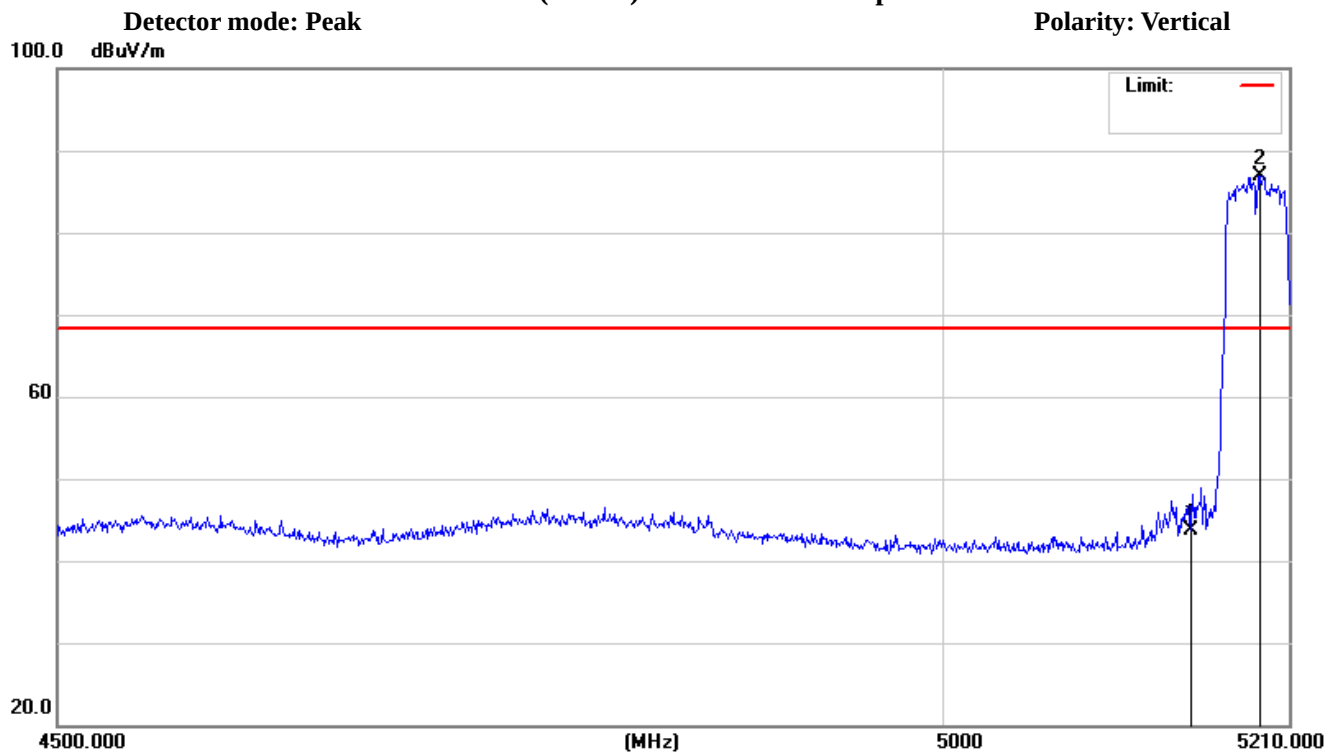
EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	51%
Pressure :	1010 hPa	Test Voltage :	DC 12V from adapter
Test Mode :	802.11ac BW40MHz		
Note :	1. The transmitter was setup to transmit at the lowest channel (CH38). Then the field strength was measured at 4500-5150 MHz. 2. The transmitter was setup to transmit at the highest channel (CH46). Then the field strength was measured at 5190-5410 MHz. 3. The data of 5150MHz and 5350MHz was the worst.		

Freq. (MHz) (Peak)	Ant.Pol. H/V	Reading	Ant/CF	Act	Limit	Note
		Peak (dBuv)	Peak (dB)	Peak (dBuv/m)	Peak (dBuv/m)	
5150.000	V	38.95	4.78	43.73	68.20	CH38
5187.990	V	82.32	4.66	---	---	CH38
5150.000	H	44.88	4.78	49.66	68.20	CH38
5187.990	H	89.24	4.65	---	---	CH38
5232.680	V	81.08	4.55	---	---	CH46
5350.000	V	38.08	4.30	42.38	68.20	CH46
5232.460	H	89.38	4.55	---	---	CH46
5350.000	H	38.78	4.30	43.08	68.20	CH46

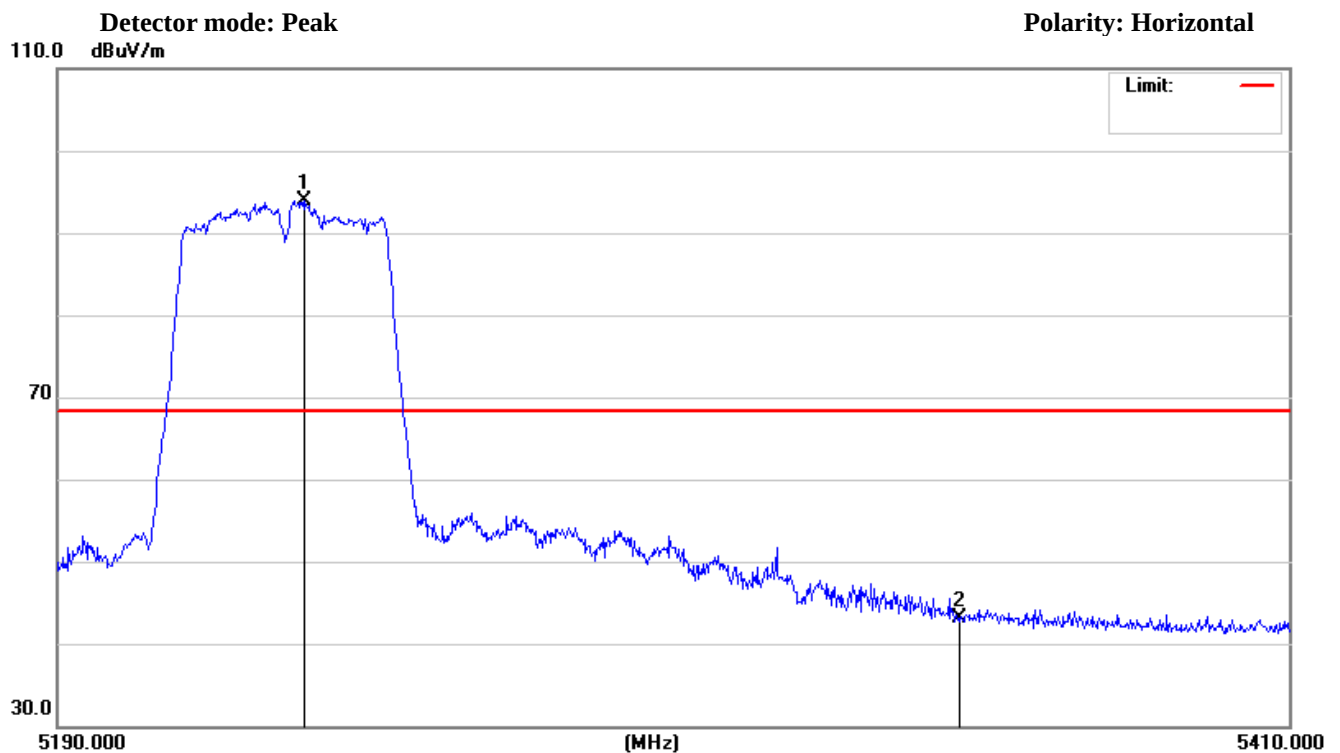
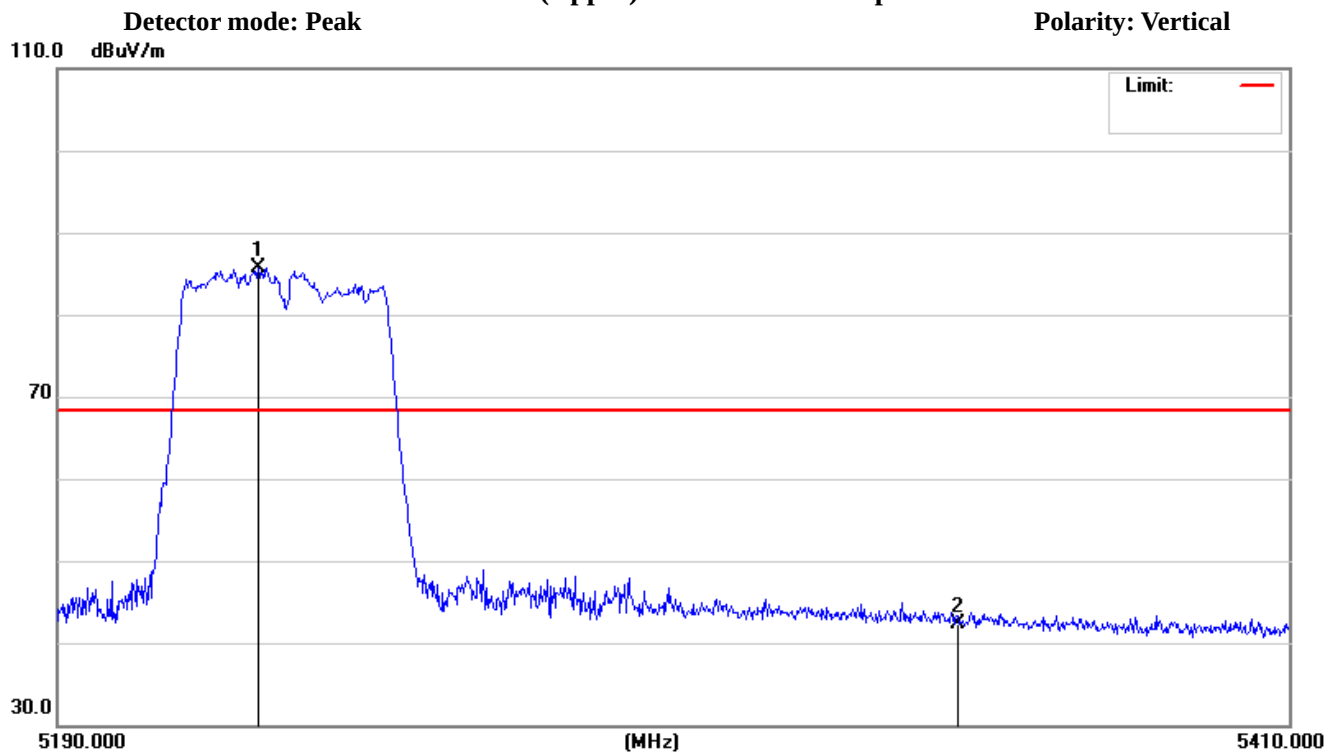
Remark

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode
- (2) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (3) Corr.Factor = Antenna Factor + Cable Loss – Pre-amplifier.

802.11n(40M) (5.15GHz-5.25GHz)
CH 38 (Lower) Data rate 7.2Mbps



802.11n(40M) (5.15GHz-5.25GHz)
CH 46 (Upper) Data rate 7.2Mbps



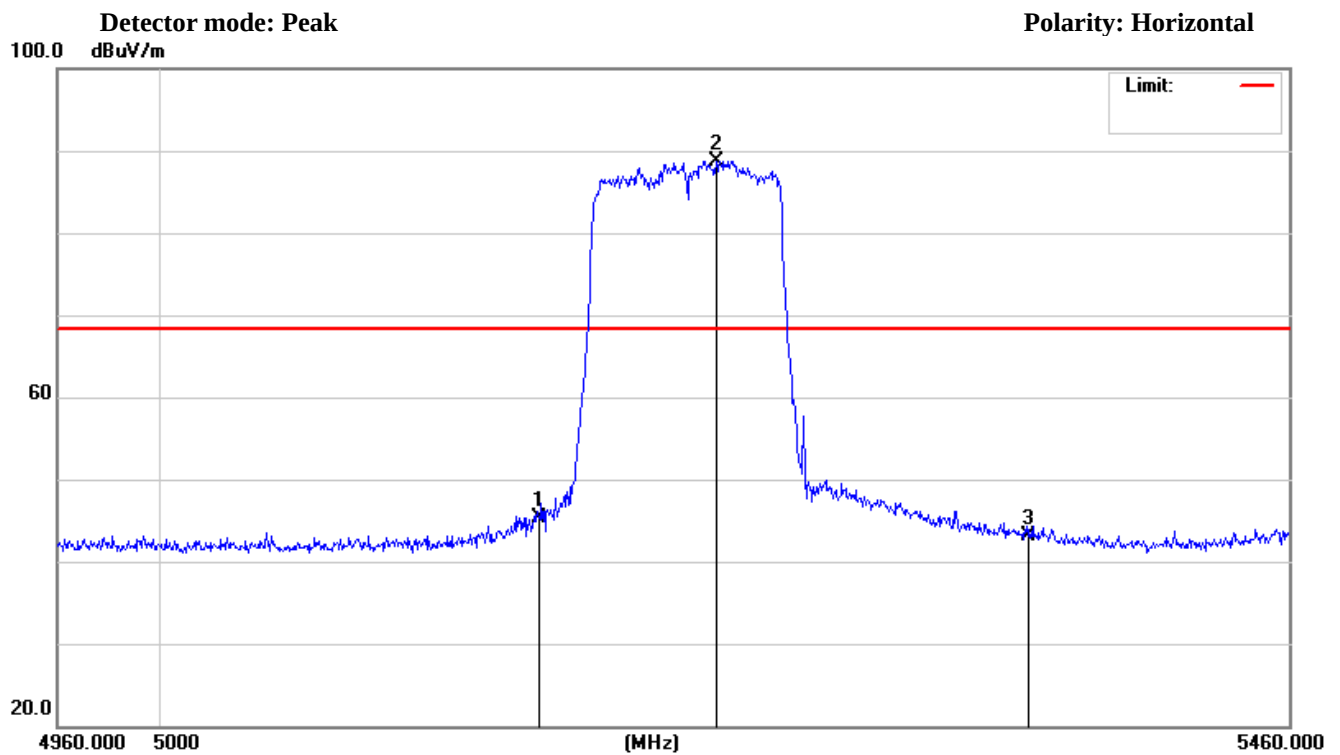
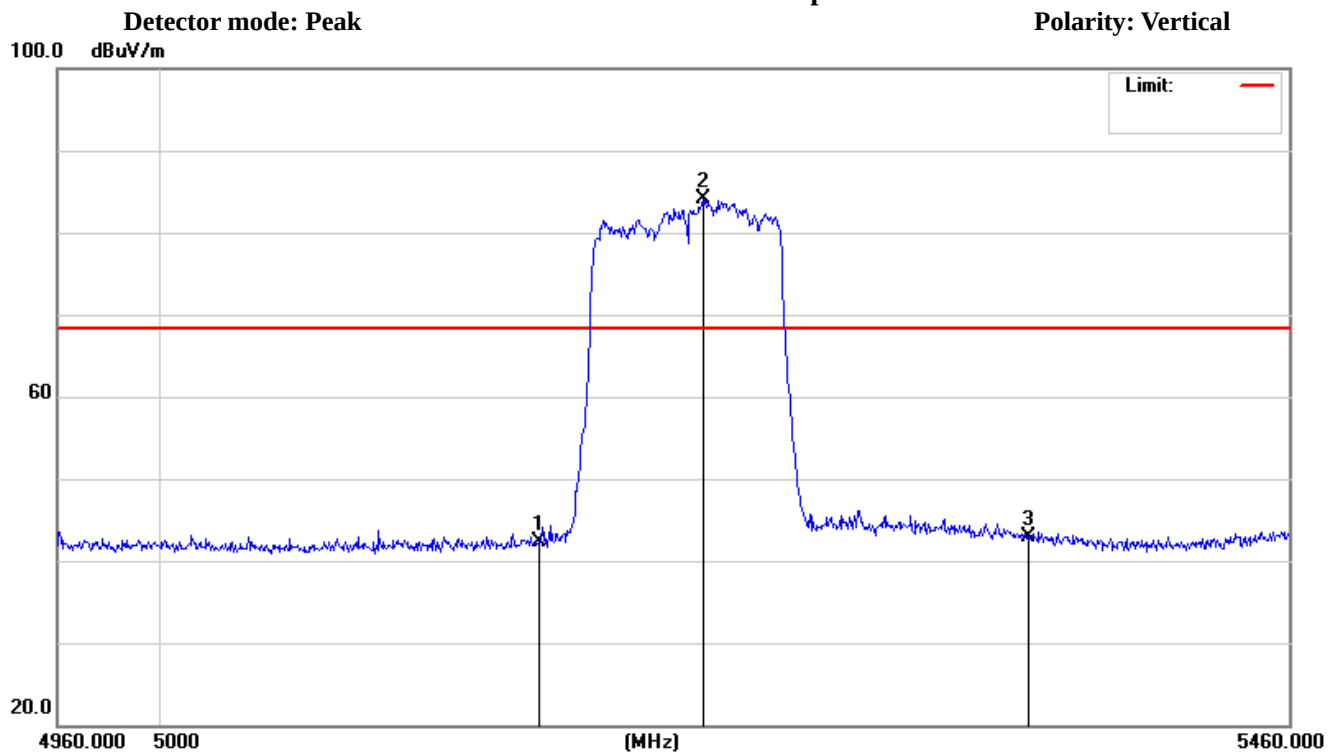
EUT :	meitueve	Model Name :	MS1901
Temperature :	24 °C	Relative Humidity :	51%
Pressure :	1010 hPa	Test Voltage :	DC 12V from adapter
Test Mode :	802.11ac BW80MHz		
Note :	1. The transmitter was setup to transmit at the lowest channel (CH42). Then the field strength was measured at 4960-5460 MHz. 2. The data of 5150MHz and 5350MHz was the worst.		

Freq. (MHz) (Peak)	Ant. Pol. H/V	Reading	Ant/CF	Act	Limit	Note
		Peak (dBuv)	Peak (dB)	Peak (dBuv/m)	Peak (dBuv/m)	
5150.000	V	37.47	4.78	42.25	68.20	CH42
5214.500	V	79.49	4.58	---	---	CH42
5350.000	V	38.60	4.30	42.90	68.20	CH42
5150.000	H	40.48	4.78	45.26	68.20	CH42
5215.000	H	84.20	4.58	---	---	CH42
5350.000	H	38.74	4.30	43.04	68.20	CH42

Remark

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode
- (2) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (3) Corr.Factor = Antenna Factor + Cable Loss – Pre-amplifier.

802.11ac(80M) (5.15GHz-5.25GHz)
CH 42 Data rate 7.2Mbps



4 OCCUPIED BANDWIDTH TEST

4.1 26DB BANDWIDTH TEST

According to §15.303(c), for purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Compliance with the emissions limits is based on the use of measurement instrumentation employing a peak detector function with an instrument resolutions bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

4.2 TEST PROCEDURE

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

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP

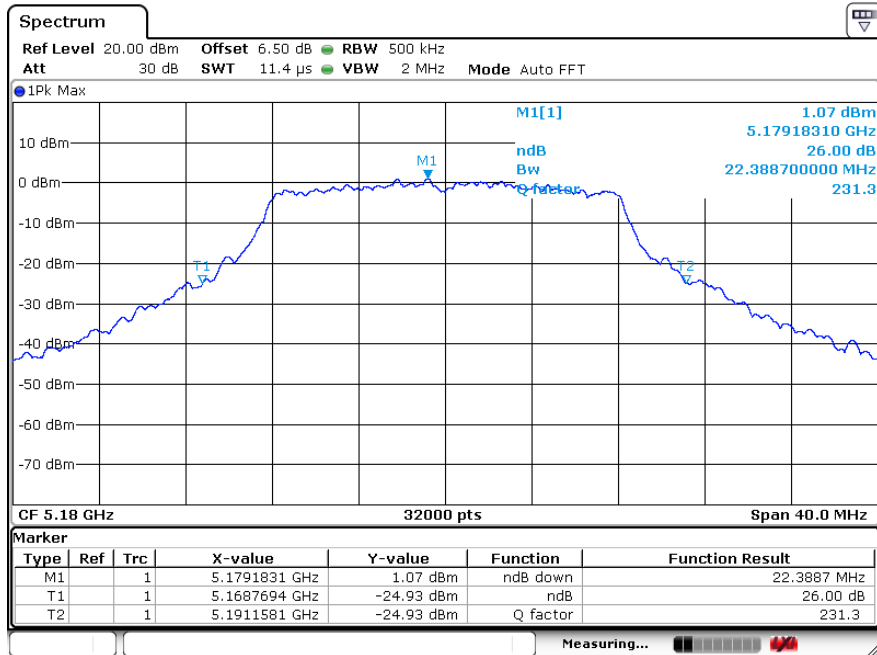


4.5 TEST RESULTS

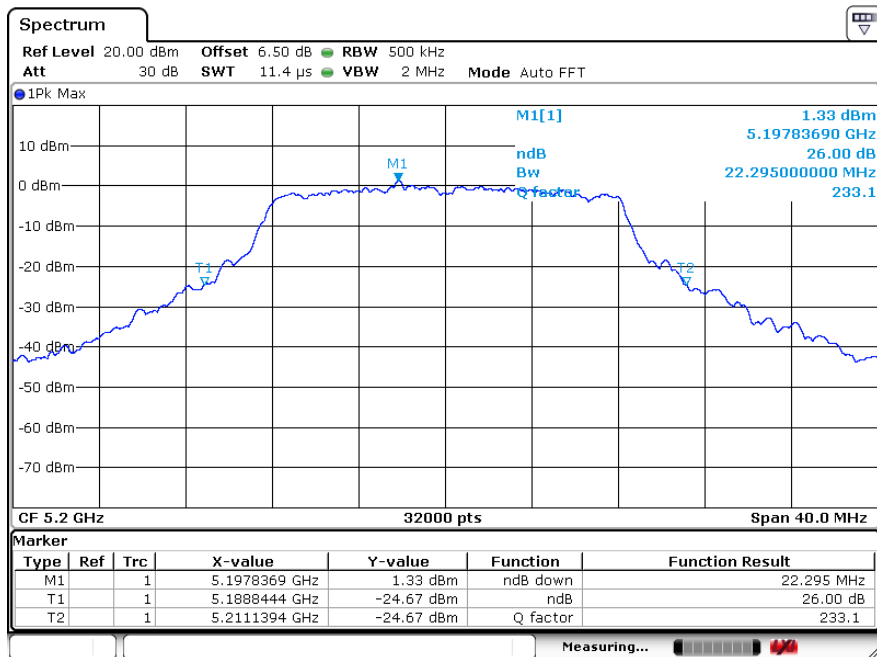
EUT :	meitueve	Model Name :	MS1901
Temperature :	26 °C	Relative Humidity :	53%
Pressure :	1010 hPa	Test Power :	DC 12V from adapter
Test Mode :	802.11a/n20/ac20/n40/ac40/ac 80 (worst case)		

Test Mode	Test Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
802.11a (5.15GHz-5.25GHz) Data rate 6Mbps	CH36	5180	22.39
	CH40	5200	22.30
	CH48	5240	22.42
802.11n(20M) (5.15GHz-5.25GHz) Data rate 13Mbps	CH36	5180	23.58
	CH40	5200	24.23
	CH48	5240	24.19
802.11ac(20M) (5.15GHz-5.25GHz) Data rate 13Mbps	CH36	5180	23.49
	CH40	5200	24.07
	CH48	5240	24.13
802.11n(40M) (5.15GHz-5.25GHz) Data rate 27Mbps	CH38	5190	41.27
	CH46	5230	40.74
802.11ac(40M) (5.15GHz-5.25GHz) Data rate 27Mbps	CH38	5190	41.86
	CH46	5230	41.22
802.11ac(80M) (5.15GHz-5.25GHz) Data rate 58.6Mbps	CH42	5210	82.46

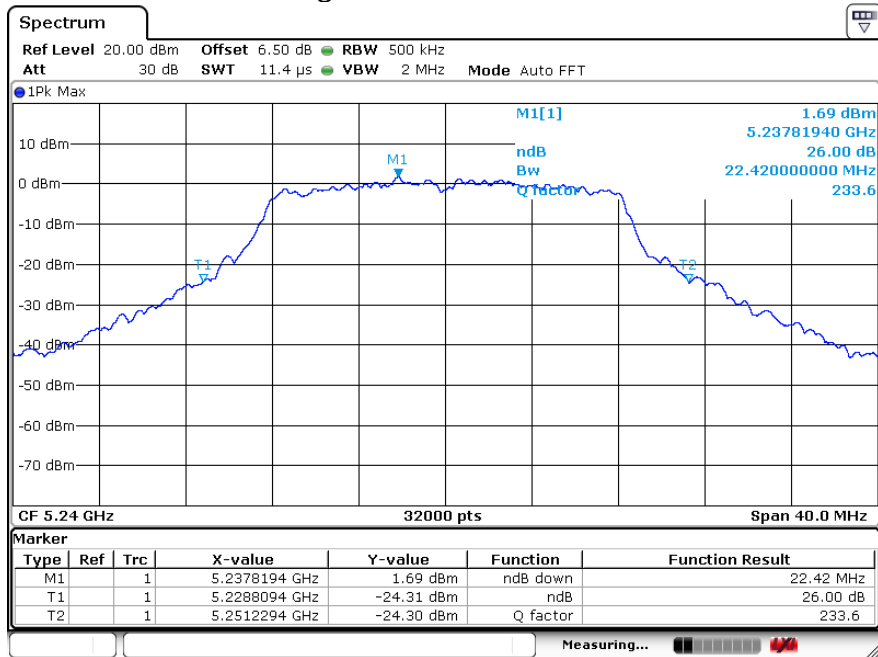
802.11a (5.15GHz-5.25GHz)
The Low Channel 36: 5180MHz



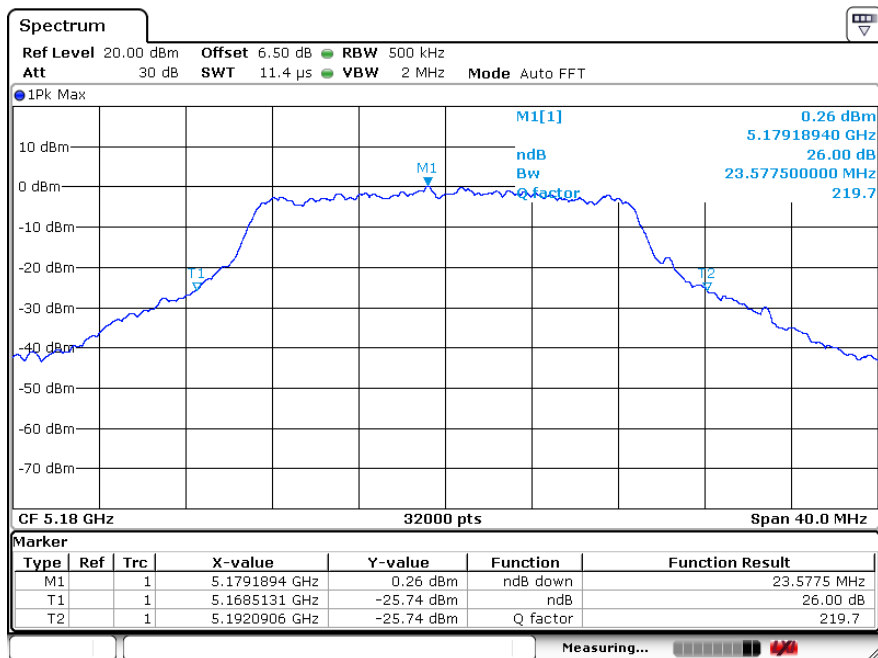
802.11a (5.15GHz-5.25GHz)
The Middle Channel 40: 5200MHz



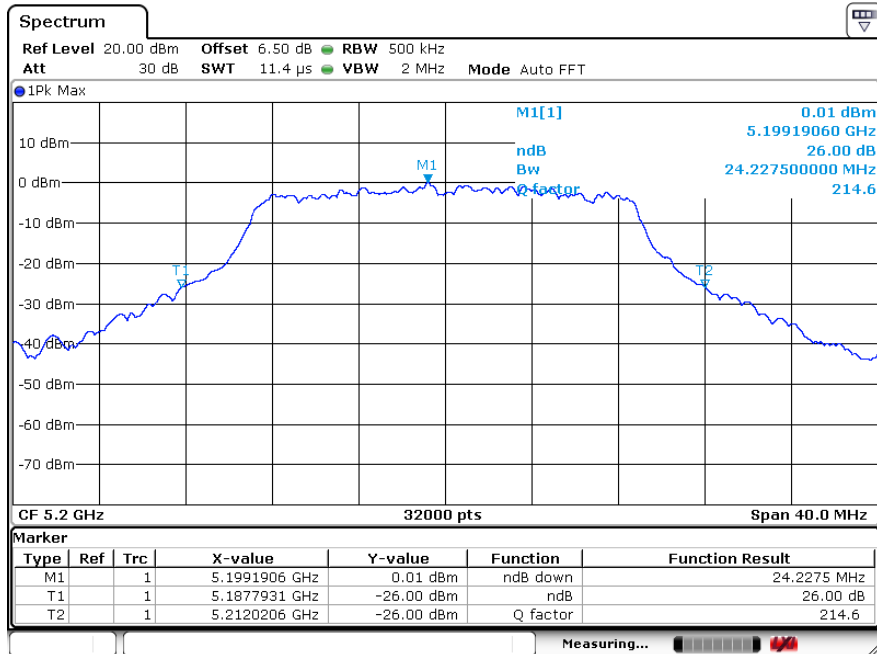
802.11a (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz



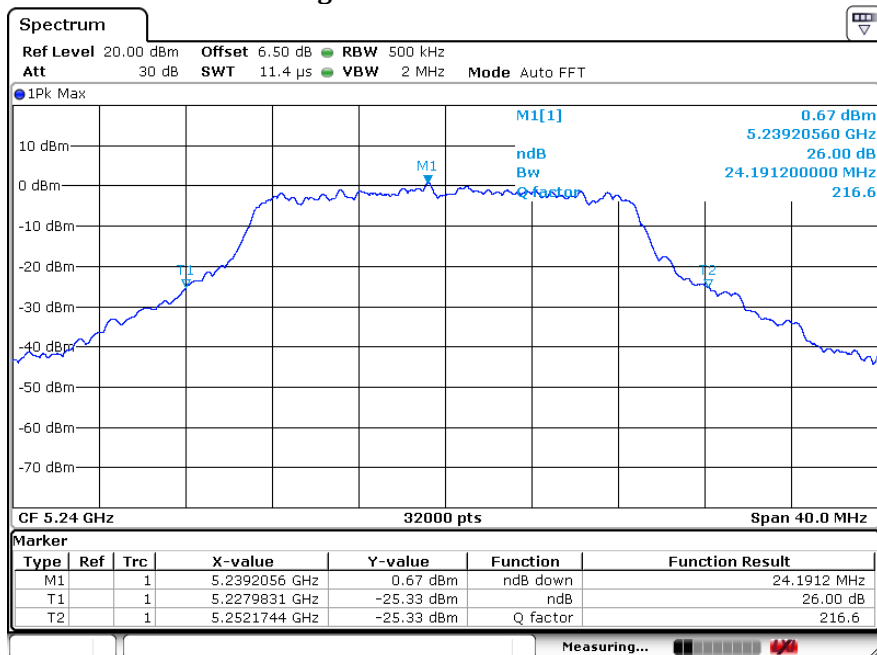
802.11n(20M) (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz



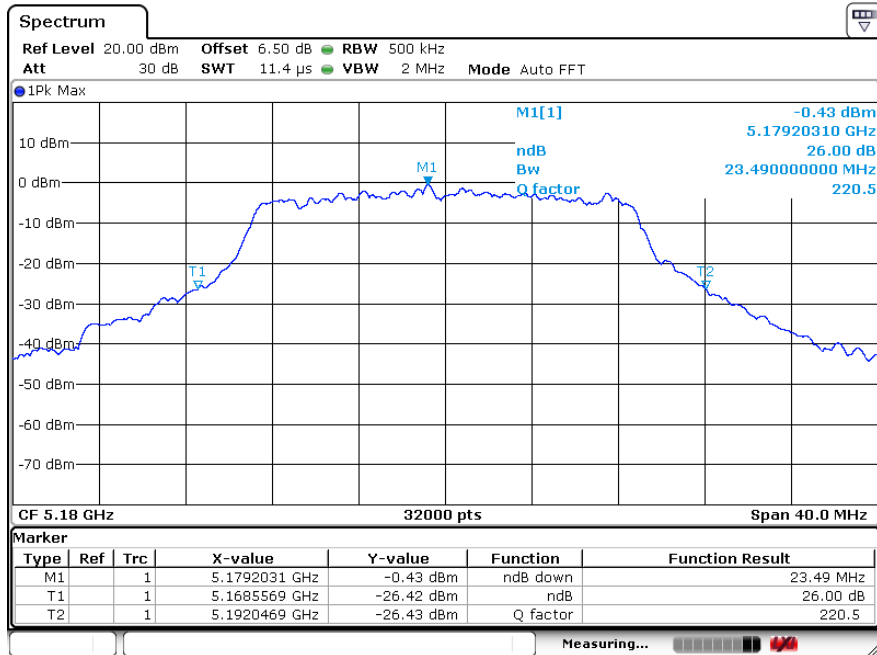
802.11n(20M) (5.15GHz-5.25GHz)
The Middle Channel 40: 5200MHz



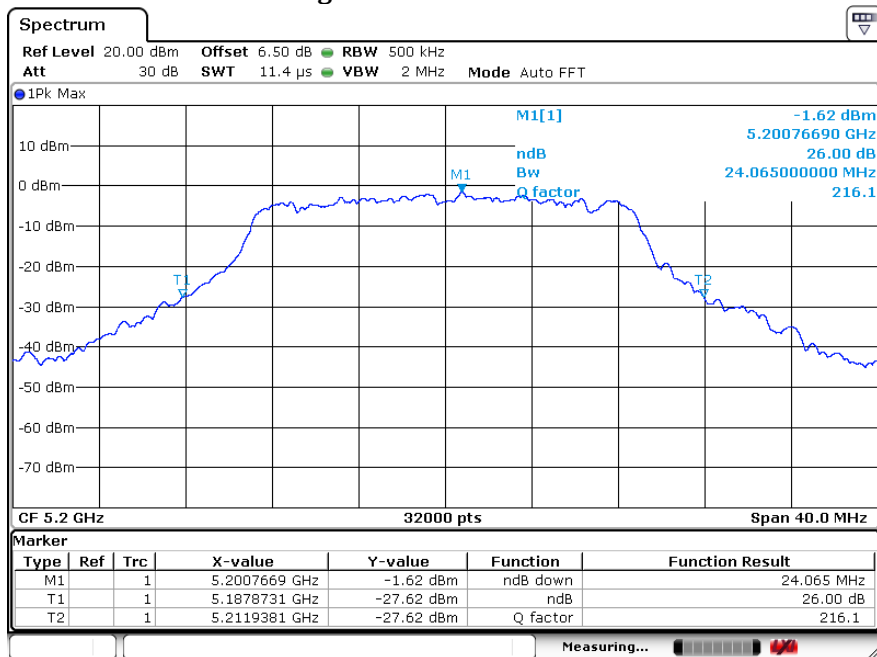
802.11n(20M) (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz



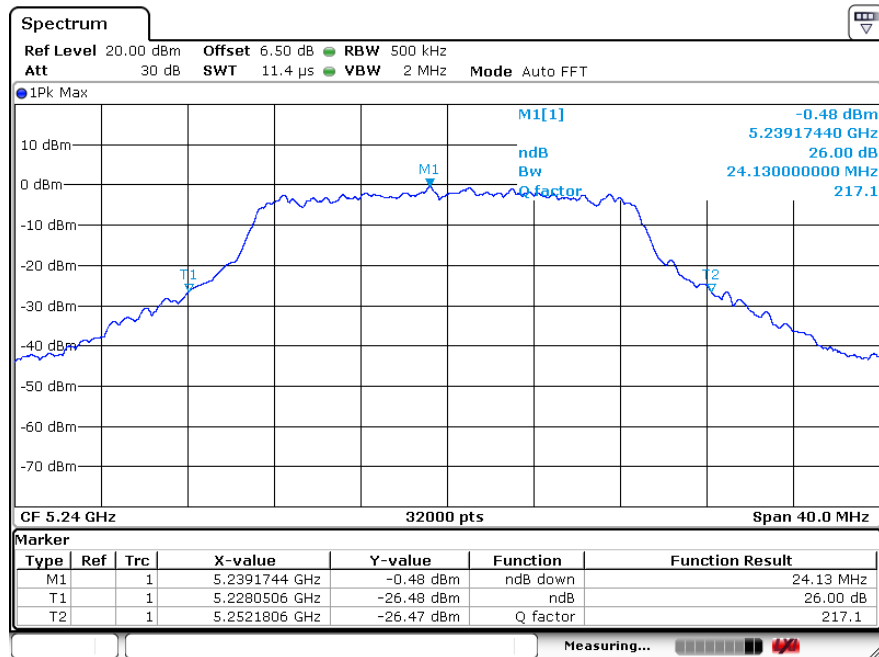
802.11ac(20M) (5.15GHz-5.25GHz)
The Middle Channel 36: 5180MHz



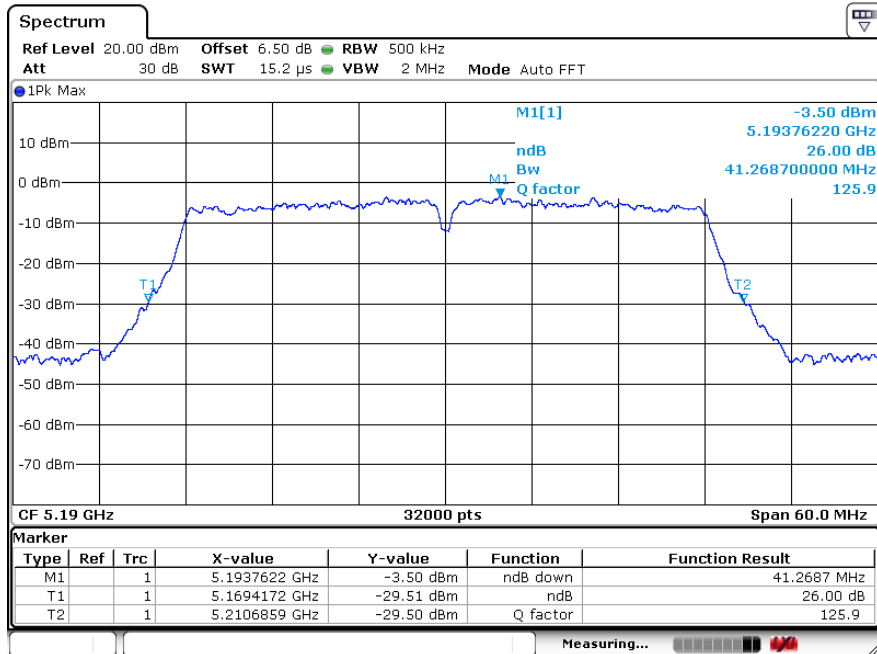
802.11n(20M) (5.15GHz-5.25GHz)
The High Channel 40: 5200MHz



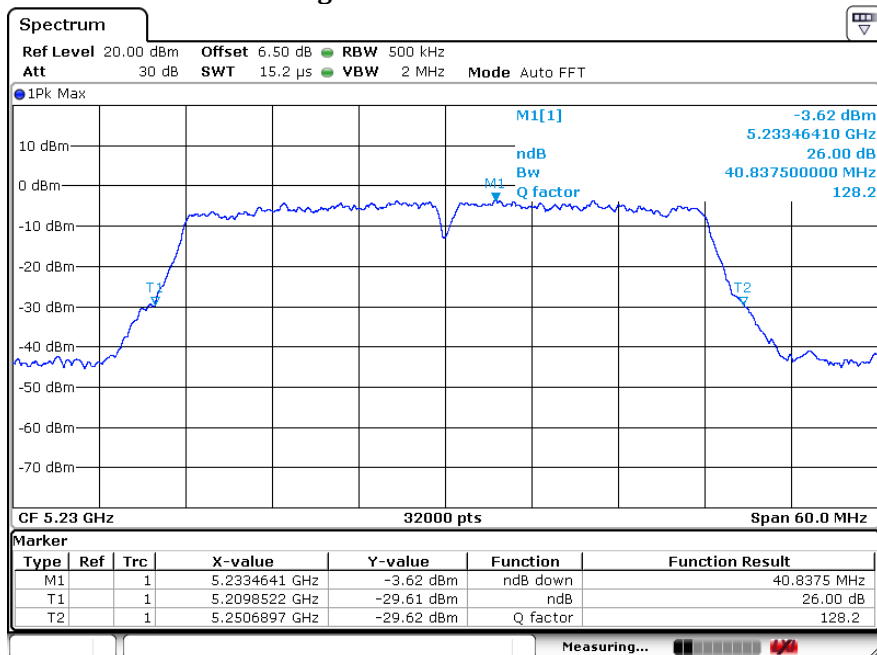
802.11ac(20M) (5.15GHz-5.25GHz) The Middle Channel 48: 5240MHz



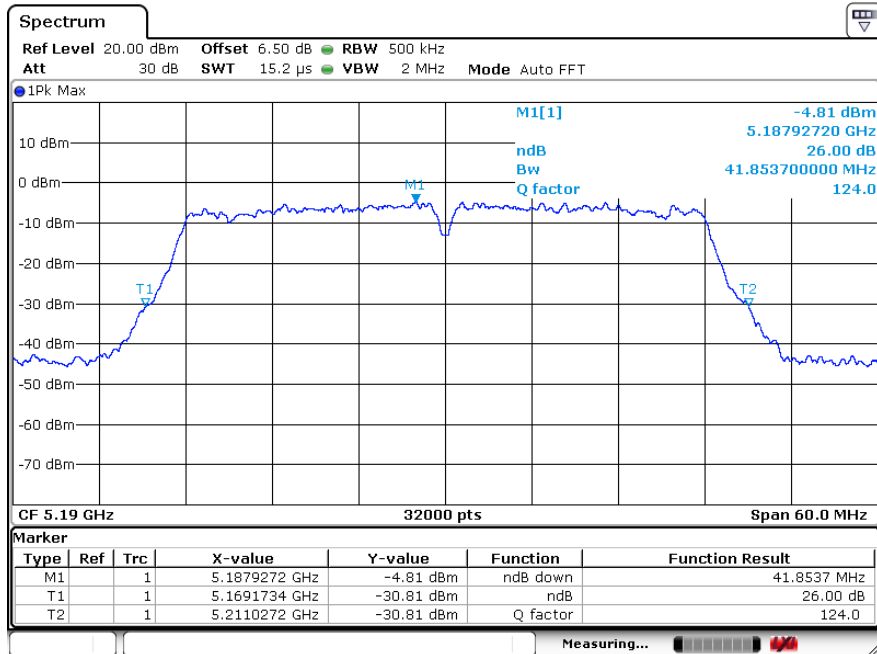
802.11n(40M) (5.15GHz-5.25GHz)
The Lowest Channel 38: 5190MHz



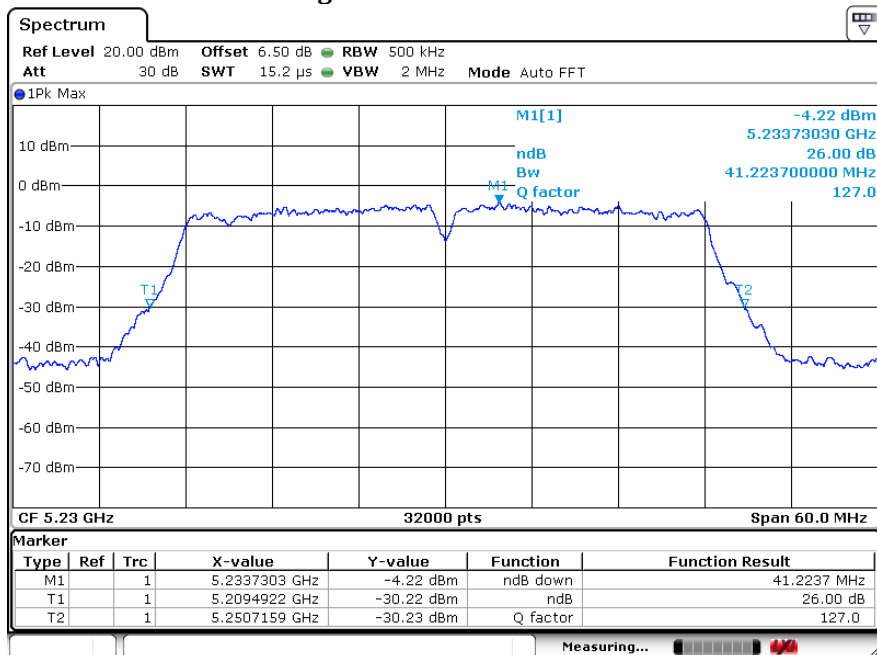
802.11n(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz



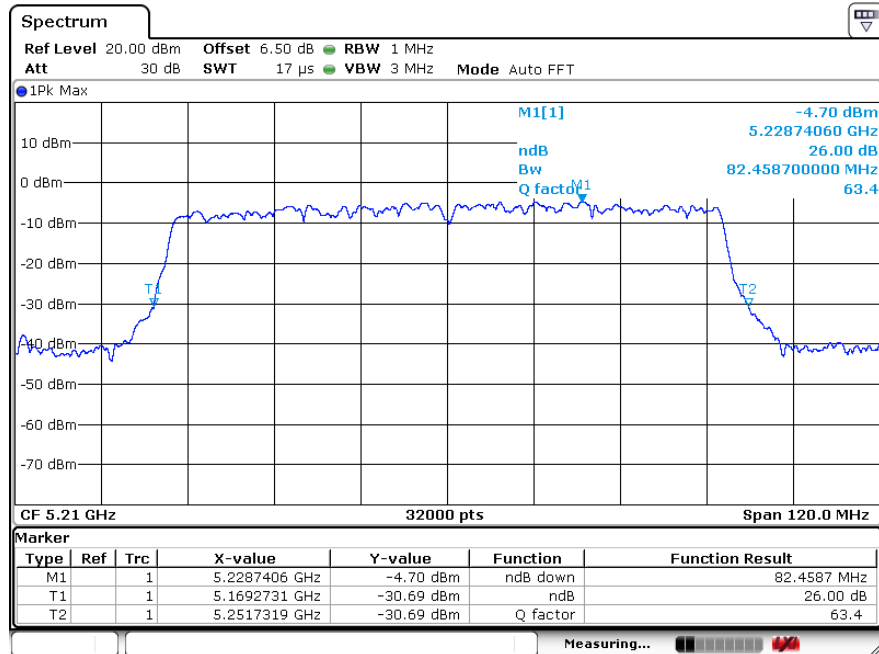
802.11ac(40M) (5.15GHz-5.25GHz)
The Lowest Channel 38: 5190MHz



802.11ac(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz



802.11ac(80M) (5.15GHz-5.25GHz) The Lowest Channel 42: 5210MHz



5 PEAK POWER DENSITY

5.1 APPLIED PROCEDURES / LIMIT

15.407(a) For UNII Device in the 5.15-5.25 GHz, 5.25-5.35 GHz and 5.47-5.725 GHz bands: peak power Density as follow.

Frequency Band	Limit
5.15 – 5.25 GHz	11dBm
5.25– 5.35GHz	11dBm
5.47 – 5.725 GHz	11dBm

5.2 TEST PROCEDURE

- a. The Transmitter output of EUT was connected to the spectrum analyzer.

Equipment mode: Spectrum analyzer

Detector function: Peak mode

SPAN: 40MHz

RBW: 1MHz

VBW: 3MHz

Center frequency: fundamental frequency tested.

Sweep time= 1msec.

- b. Using Peak Search to read the peak power after Maximum Hold function is completed.

5.3 DEVIATION FROM STANDARD

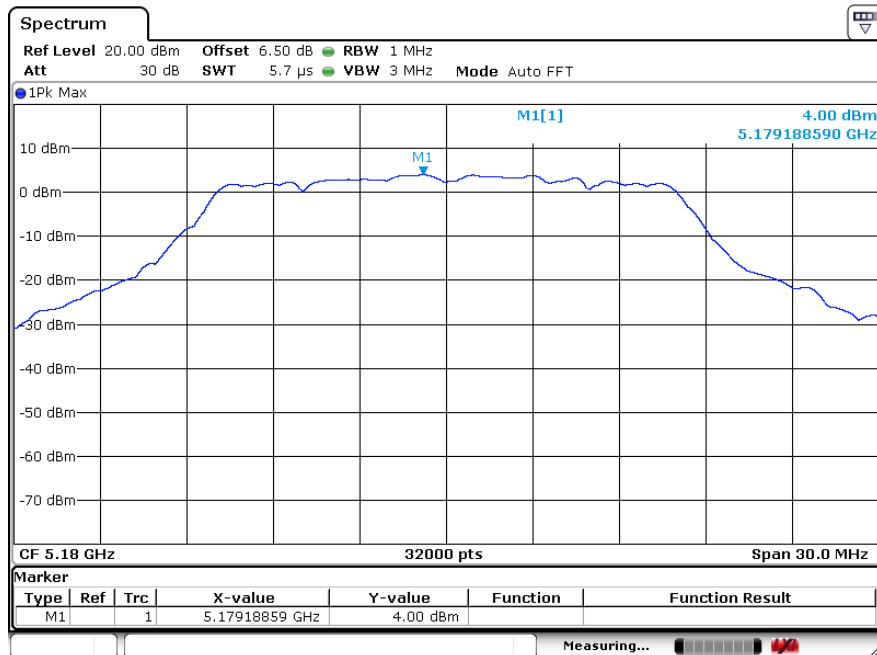
No deviation.

5.4 TEST RESULTS

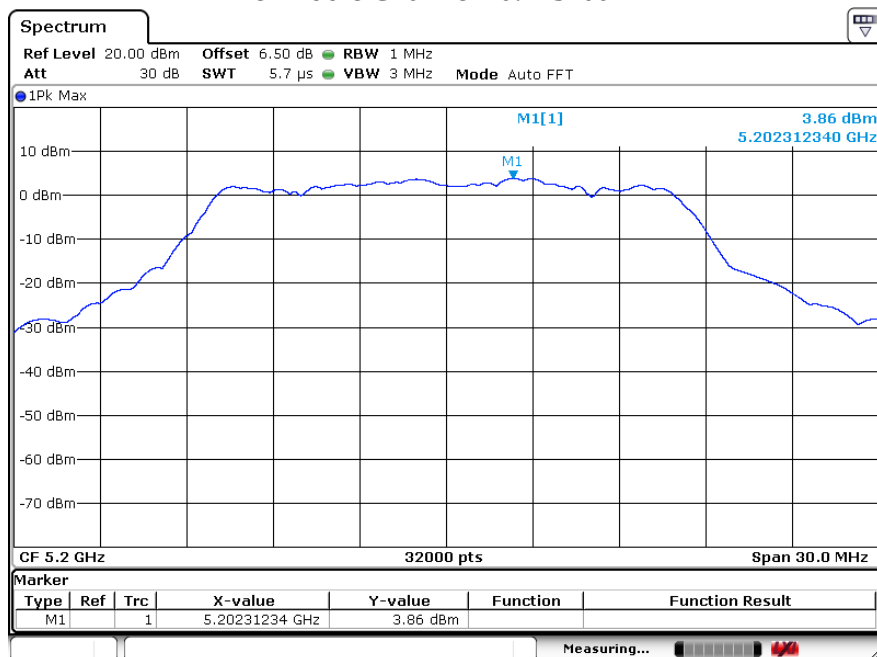
EUT :	meitueve	Model Name :	MS1901
Temperature :	22 °C	Relative Humidity :	53%
Pressure :	1010 hPa	Test Power :	DC 12V from adapter
Test Mode :	802.11a/n20/ac20/n40/ac40/ac80		

Test Mode	Channel	Channel Frequency (MHz)	Reading (dBm)	Limit (dBm)	Result
802.11a (5.15GHz-5.25GHz) Data rate 6Mbps	Low	5180	4.00	11	Pass
	Middle	5200	3.86	11	Pass
	Highest	5240	4.55	11	Pass
802.11n(20M) (5.15GHz-5.25GHz) Data rate 13Mbps	Low	5180	2.77	11	Pass
	Middle	5200	2.99	11	Pass
	Highest	5240	3.07	11	Pass
802.11ac(20M) (5.15GHz-5.25GHz) Data rate 13Mbps	Low	5180	1.42	11	Pass
	Middle	5200	1.51	11	Pass
	Highest	5240	1.89	11	Pass
802.11n(40M) (5.15GHz-5.25GHz) Data rate 27Mbps	Low	5190	0.06	11	Pass
	Highest	5230	0.57	11	Pass
802.11ac(40M) (5.15GHz-5.25GHz) Data rate 27Mbps	Low	5190	-0.88	11	Pass
	Highest	5230	-0.47	11	Pass
802.11ac(80M) (5.15GHz-5.25GHz) Data rate 58.6Mbps	---	5210	-3.23	11	Pass

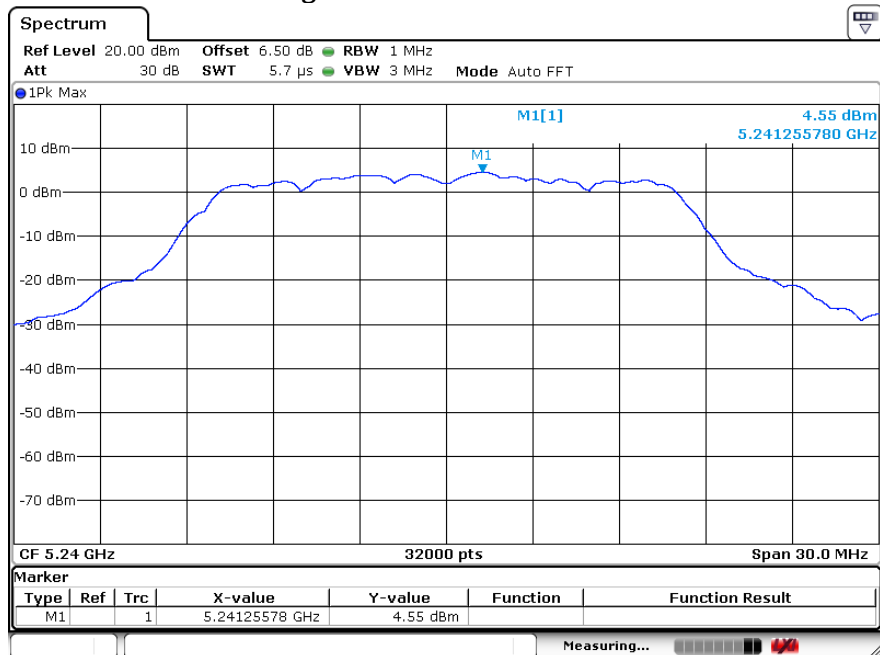
802.11a (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz



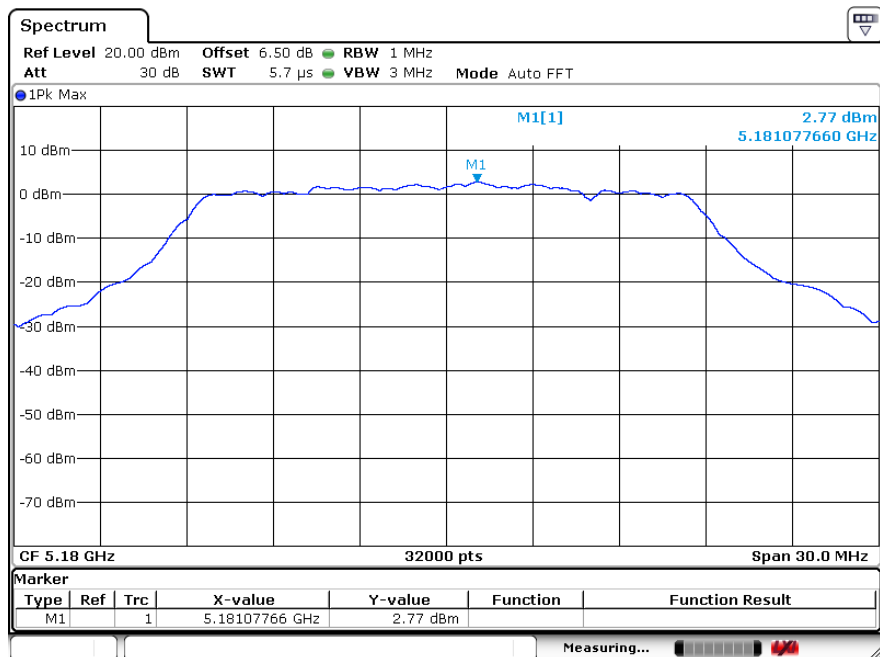
802.11a (5.15GHz-5.25GHz)
The Middle Channel 40: 5200MHz



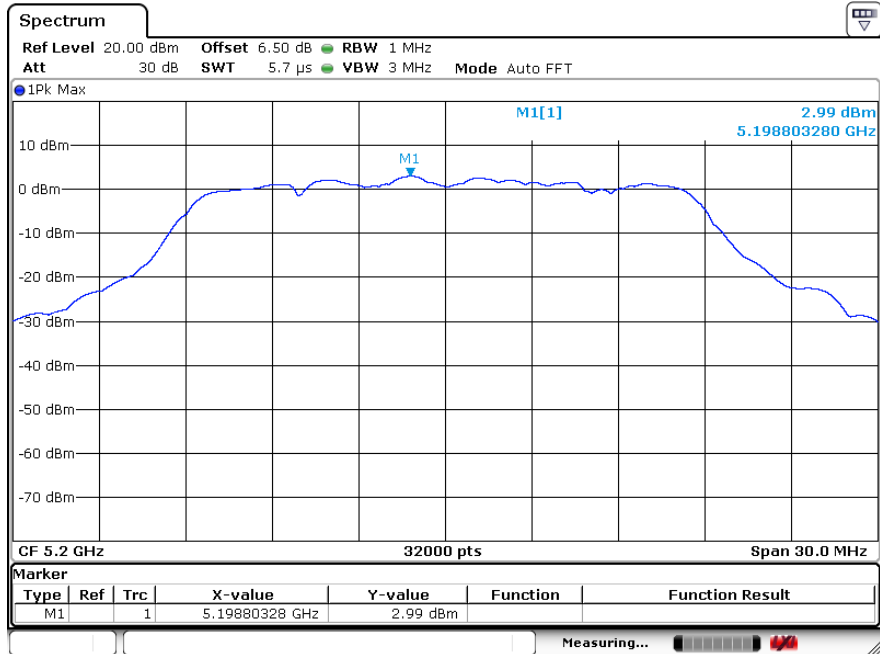
802.11a (5.15GHz-5.25GHz)
The Highest Channel 48: 5240MHz



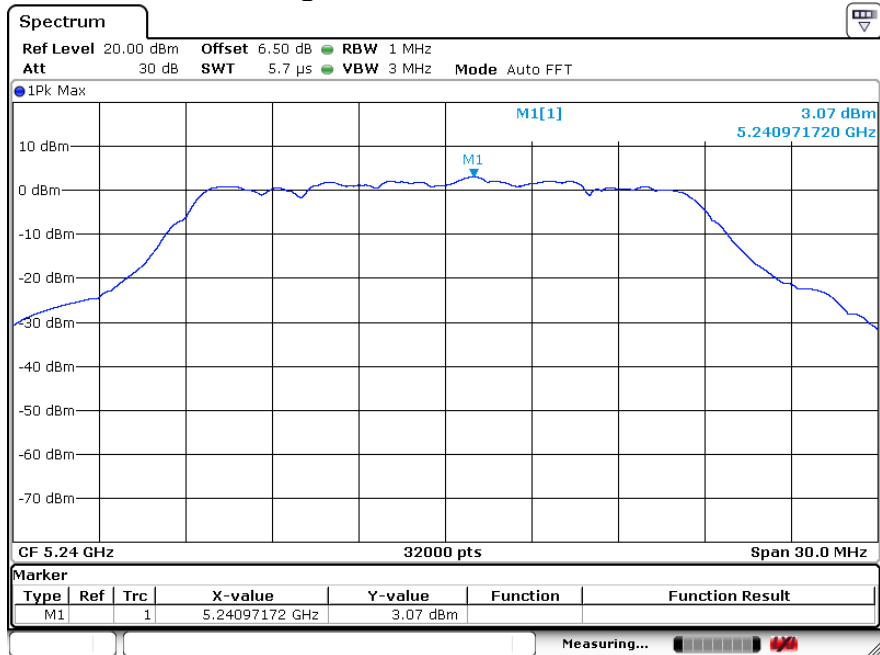
802.11n(20M) (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz



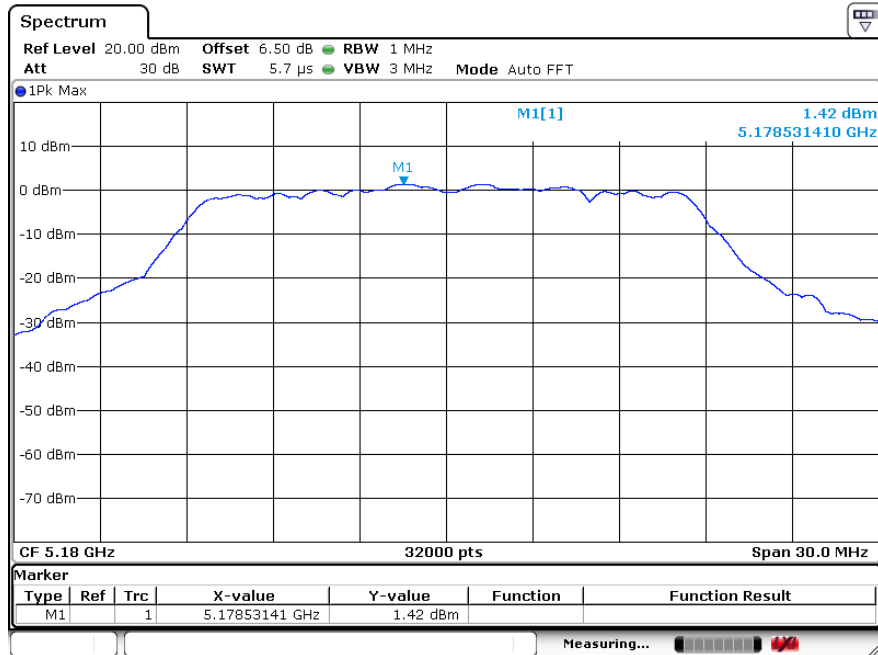
802.11n(20M) (5.15GHz-5.25GHz) The Middle Channel 40: 5200MHz



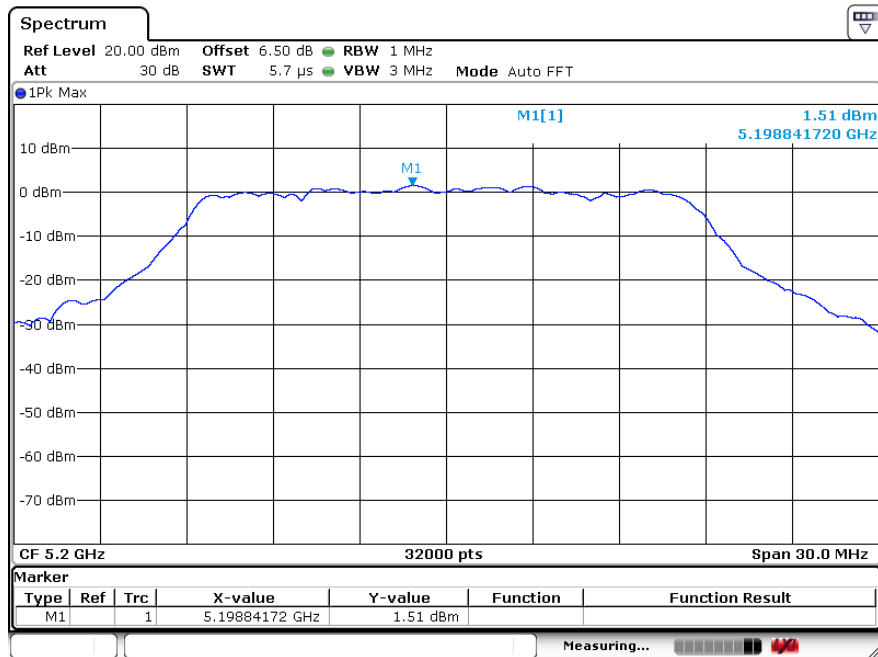
802.11n(20M) (5.15GHz-5.25GHz) The Highest Channel 48: 5240MHz



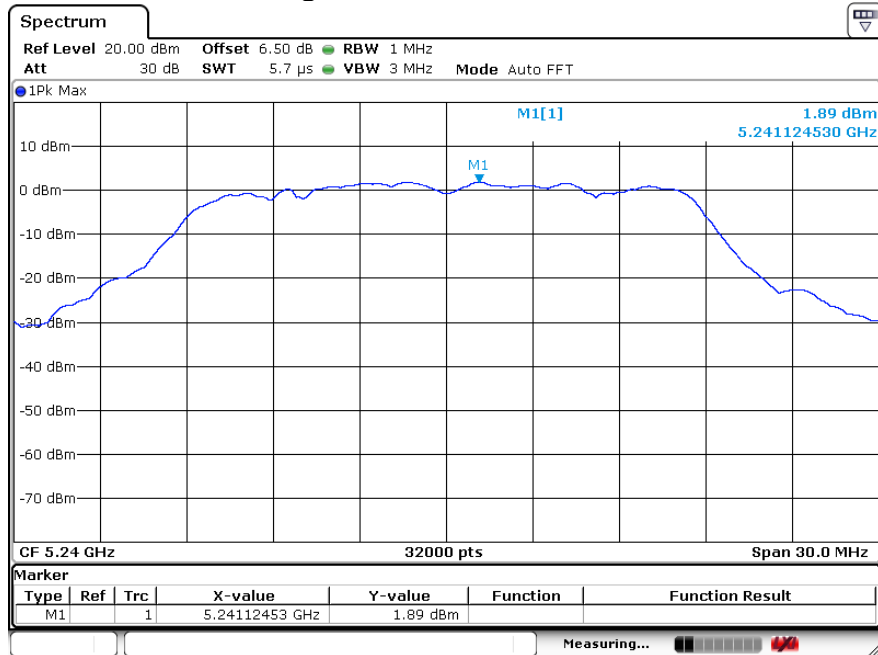
802.11ac (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz



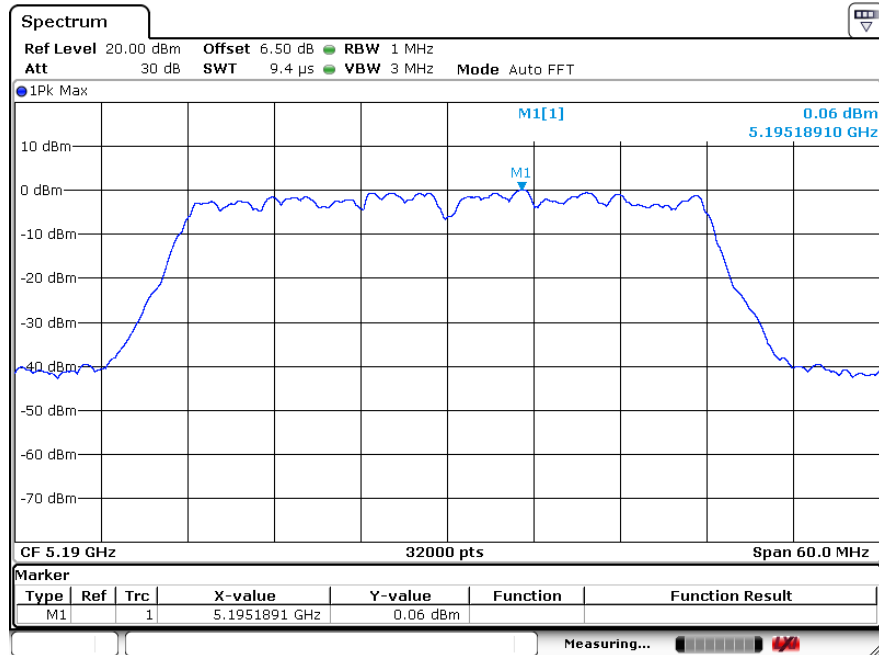
802.11ac (5.15GHz-5.25GHz)
The Middle Channel 40: 5200MHz



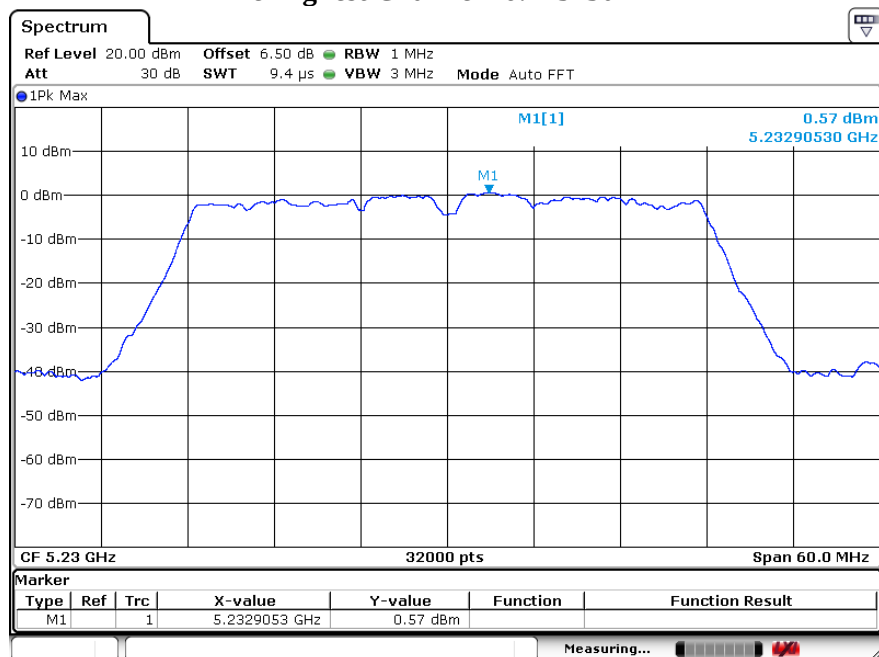
802.11ac (5.15GHz-5.25GHz) The Highest Channel 48: 5240MHz



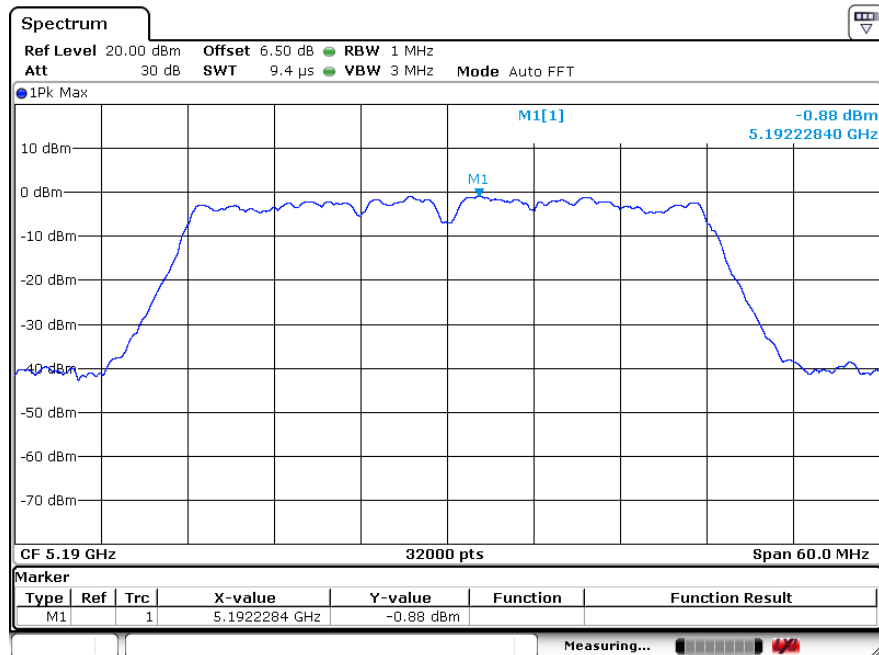
802.11n(40M) (5.15GHz-5.25GHz) The Lowest Channel 38: 5190MHz



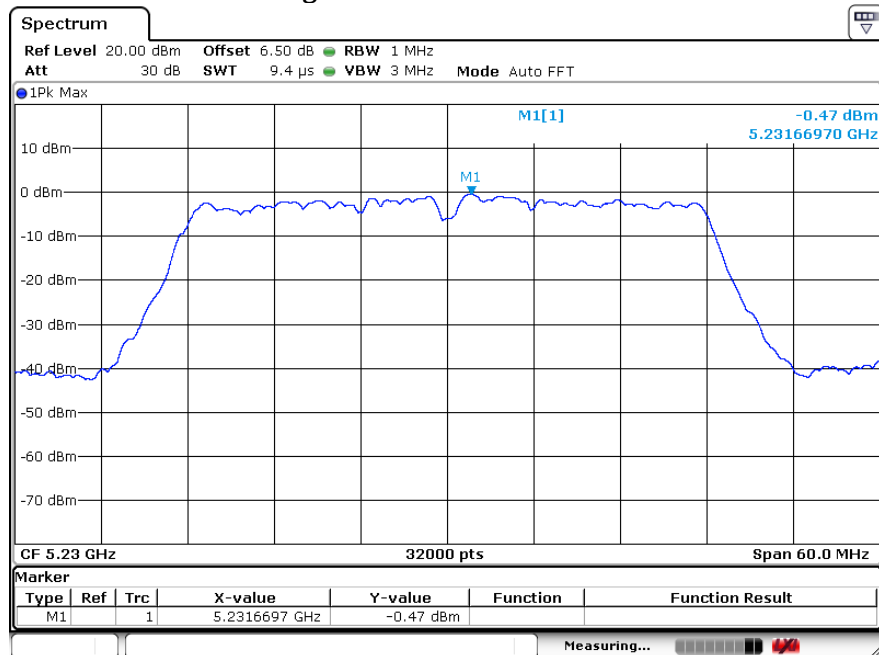
802.11n(40M) (5.15GHz-5.25GHz) The Highest Channel 46: 5230MHz



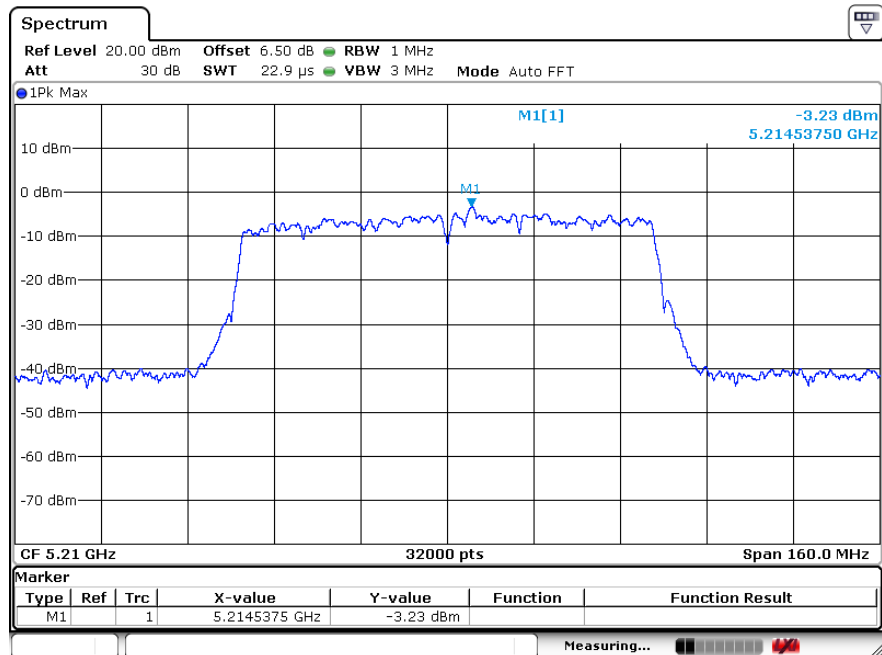
802.11ac(40M) (5.15GHz-5.25GHz) The Lowest Channel 38: 5190MHz



802.11ac(40M) (5.15GHz-5.25GHz) The Highest Channel 46: 5230MHz



802.11ac(80M) (5.15GHz-5.25GHz) The Lowest Channel 42: 5210MHz



6 MAXIMUM PEAK OUTPUT POWER

6.1 APPLIED PROCEDURES / LIMIT

For UNII Device in the 5.15-5.25 GHz, 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm +10 log (26dB BW).

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Frequency Band	Limit
5.15 – 5.25 GHz	24dBm
5.25-5.35 GHz	24dBm
5.47 – 5.725 GHz	24dBm

6.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



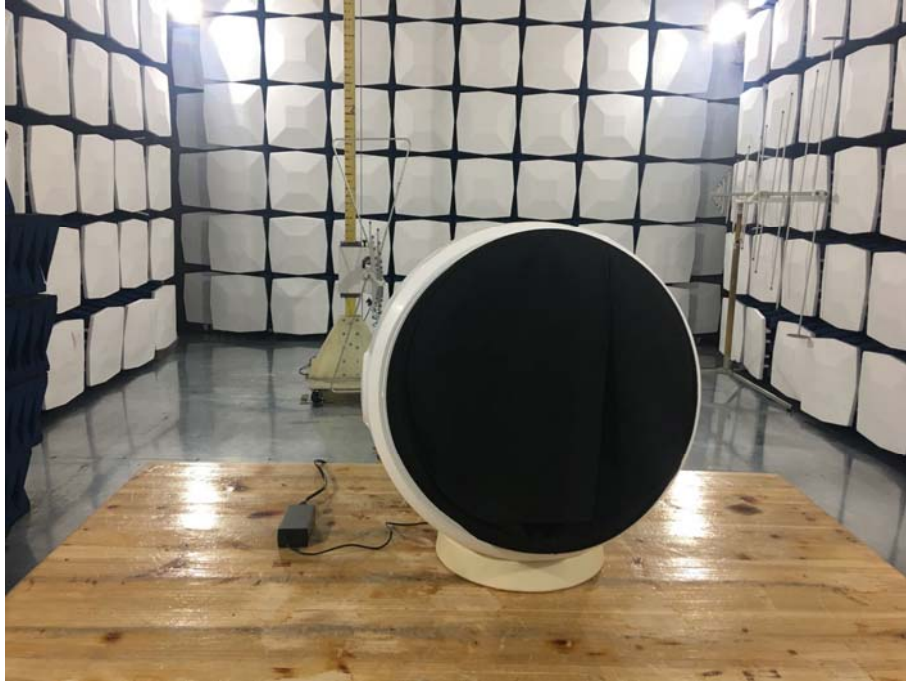
6.5 TEST RESULTS

EUT :	meitueve	Model Name :	MS1901
Temperature :	22 °C	Relative Humidity:	60%
Pressure :	1010 hPa	Test Voltage :	DC 12V from adapter
Test Mode :	802.11a/n20/ac20/n40/ac40/ac80		
Note: All the data rates have be tested and the worst-case as the table below.			

Test Mode	Channel	Channel Frequency (MHz)	Reading Power (dBm)	Limit (dBm)	Result
802.11a (5.15GHz-5.25GHz) Data rate 6Mbps	CH36	5180	13.38	24	Pass
	CH40	5200	14.17	24	Pass
	CH48	5240	14.01	24	Pass
802.11n(20M) (5.15GHz-5.25GHz) Data rate 13Mbps	CH36	5180	12.98	24	Pass
	CH40	5200	13.12	24	Pass
	CH48	5240	12.94	24	Pass
802.11ac(20M) (5.15GHz-5.25GHz) Data rate 13Mbps	CH36	5180	11.61	24	Pass
	CH40	5200	11.99	24	Pass
	CH48	5240	11.72	24	Pass
802.11n(40M) (5.15GHz-5.25GHz) Data rate 27Mbps	CH38	5190	12.38	24	Pass
	CH46	5230	12.53	24	Pass
802.11ac(40M) (5.15GHz-5.25GHz) Data rate 27Mbps	CH38	5190	11.61	24	Pass
	CH46	5230	11.76	24	Pass
802.11ac(80M) (5.15GHz-5.25GHz) Data rate 58.6Mbps	CH42	5210	11.34	24	Pass

9. EUT TEST PHOTO

**Radiated Measurement Photos
30MHz-1GHz**



**Radiated Measurement Photos
Above 1GHz**



Conducted Measurement Photos**10. APPENDIX-Photographs of EUT Constructional Details**

Please refer to report APPENDIX.

**** End of Report ****