

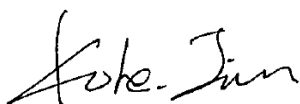


## TEST REPORT

**Application No.:** GZCR2206000746AT  
**Applicant:** Greater Goods, LLC  
**Address of Applicant:** 4427 Chouteau Ave. St. Louis, Mo, 63110, Unite States  
**Manufacturer:** Zhongshan Transtek Electronics Co., Ltd  
**Address of Manufacturer:** No. 23, Jin'an Road, Minzhong, Zhongshan, Guangdong, China  
**Factory:** Zhongshan Transtek Electronics Co., Ltd  
**Address of Factory:** No. 23, Jin'an Road, Minzhong, Zhongshan, Guangdong, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Body Fat Analyzer  
**Model No.:** 0397, GBF-1270-F31 ♣  
♣ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2022-06-14  
**Date of Test:** 2022-06-23 to 2022-07-13  
**Date of Issue:** 2022-08-23

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.


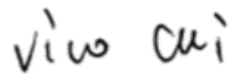


Kobe Jian  
EMC Laboratory Manager



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Revision Record			
Version	Report No.	Date	Remark
01	GZCR220600074602	2022-08-23	Original

Authorized for issue by			
			
		Curry Wu/Project Engineer	
			
		Vico Cui/Reviewer	

## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

### ♣ Declaration of EUT Family Grouping:

Model No.: 0397, GBF-1270-F31

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model number.

Therefore, only one model GBF-1270-F31 was tested in this report.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC 6V =size 'AAA' battery x 4
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11;
Channel Spacing:	5MHz
Antenna Gain:	3.39 dBi Max

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	±5.00dB (30MHz-1GHz; 3m);±4.38dB (30MHz-1GHz; 10m);± 5.12dB (1GHz-6GHz); ±5.38dB (6GHz-18GHz); ±5.61dB(18GHz-40GHz)
Radiated Spurious Emissions Below 1GHz	±5.00dB (3m); ±4.38dB (10m)
Radiated Spurious Emissions Above 1GHz	±5.12dB (1GHz-6GHz); ±5.38dB (6GHz-18GHz); ±5.61dB(18GHz-40GHz)

### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,  
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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## 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

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

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

## 4.6 Deviation from Standards

None

## 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29
Test Software	TST	V2.0	GZE100-78	N/A	N/A



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Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2022-06-21	2023-06-20
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2022-04-06	2024-04-05
EMI Test Receiver (1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2022-05-20	2023-05-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Trilog Broadband Antenna (25MHz-1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	EMC2174	2022-06-19	2025-06-18



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Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-12-17	2022-12-16
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2022-06-24	2023-06-23



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## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

#### 6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.39 dBi.

Antenna location: Refer to internal photo.

## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for $\geq 50$ hopping channels
	0.25 for $25 \leq$ hopping channels $< 50$
	1 for digital modulation
2400-2483.5	1 for $\geq 75$ non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C

Humidity: 58.4 % RH

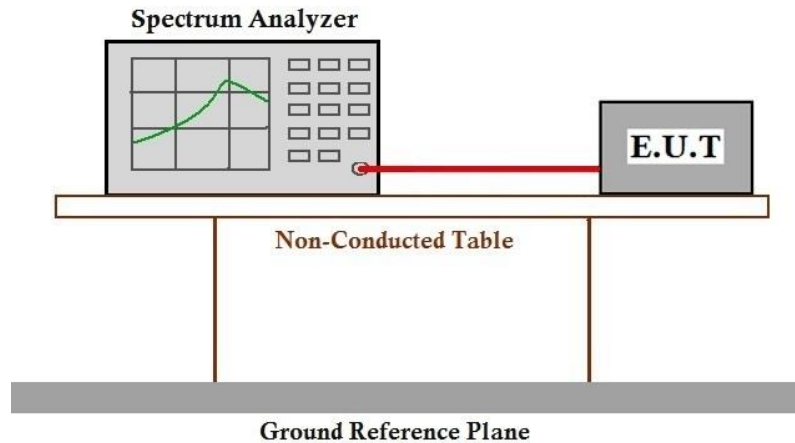
Atmospheric Pressure: 1000 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
--------------------------	--------------	-------------

Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
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### 7.1.3 Test Setup Diagram



### 7.1.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

### 7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)  
Test Method: ANSI C63.10 (2013) Section 11.8.1  
Limit:  $\geq 500$  kHz

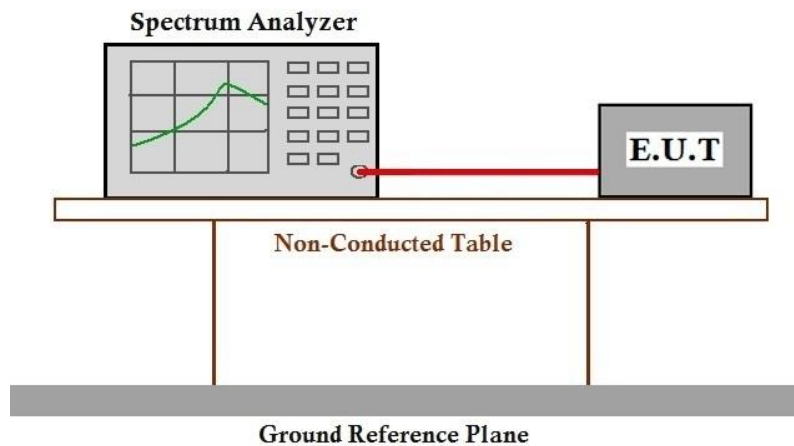
#### 7.2.1 E.U.T. Operation

Operating Environment:  
Temperature: 24.9 °C Humidity: 58.4 % RH Atmospheric Pressure: 1000 mbar

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

#### 7.2.3 Test Setup Diagram



#### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details

### 7.3 Power Spectrum Density

Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.2
Limit:	≤8dBm in any 3 kHz band during any time interval of continuous transmission

#### 7.3.1 E.U.T. Operation

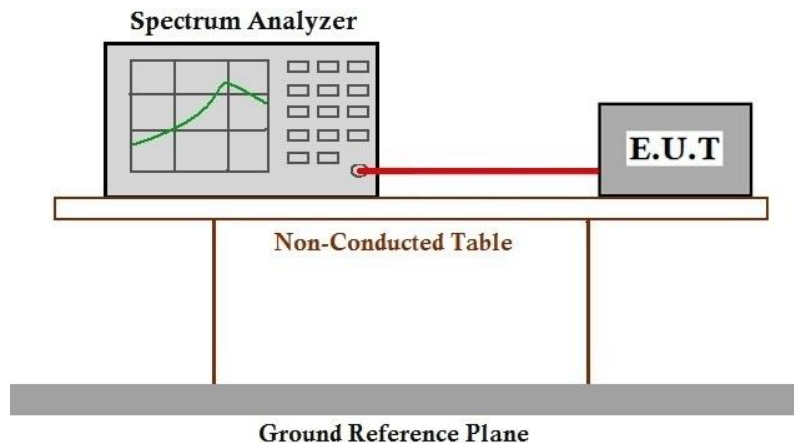
Operating Environment:

Temperature: 24.9 °C Humidity: 58.4 % RH Atmospheric Pressure: 1000 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

#### 7.3.3 Test Setup Diagram



#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.4 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C

Humidity: 58.4 % RH

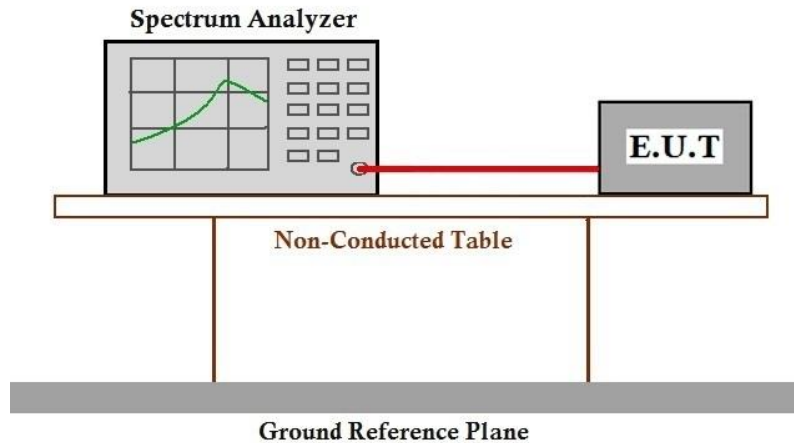
Atmospheric Pressure: 1000 mbar

### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



### 7.4.3 Test Setup Diagram



### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.5 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C

Humidity: 58.4 % RH

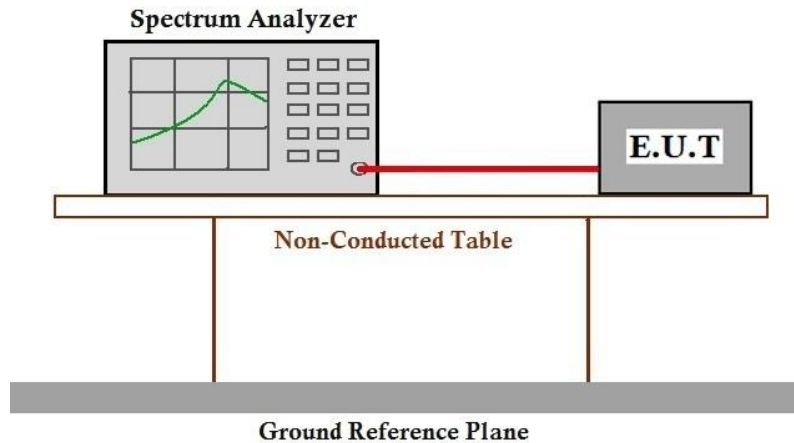
Atmospheric Pressure: 1000 mbar

### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



### 7.5.3 Test Setup Diagram



### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

**7.6 Radiated Emissions which fall in the restricted bands**

Test Requirement 47 CFR Part 15, Subpart C 15.205 &amp; 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

Frequency (MHz)	Field strength (microvolts/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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

**7.6.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.0 °C

Humidity: 59.9 % RH

Atmospheric Pressure: 1005 mbar

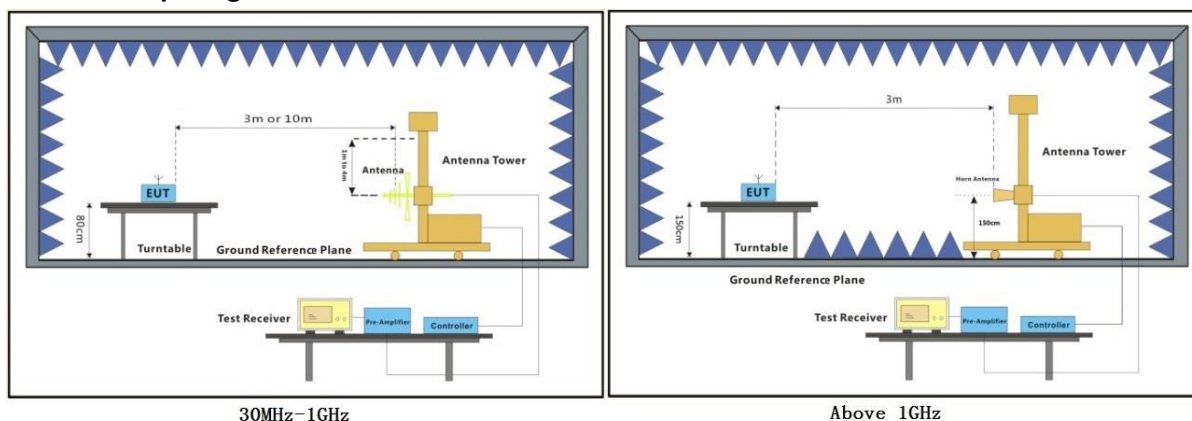
**7.6.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
--------------------------	--------------	-------------

Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
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### 7.6.3 Test Setup Diagram



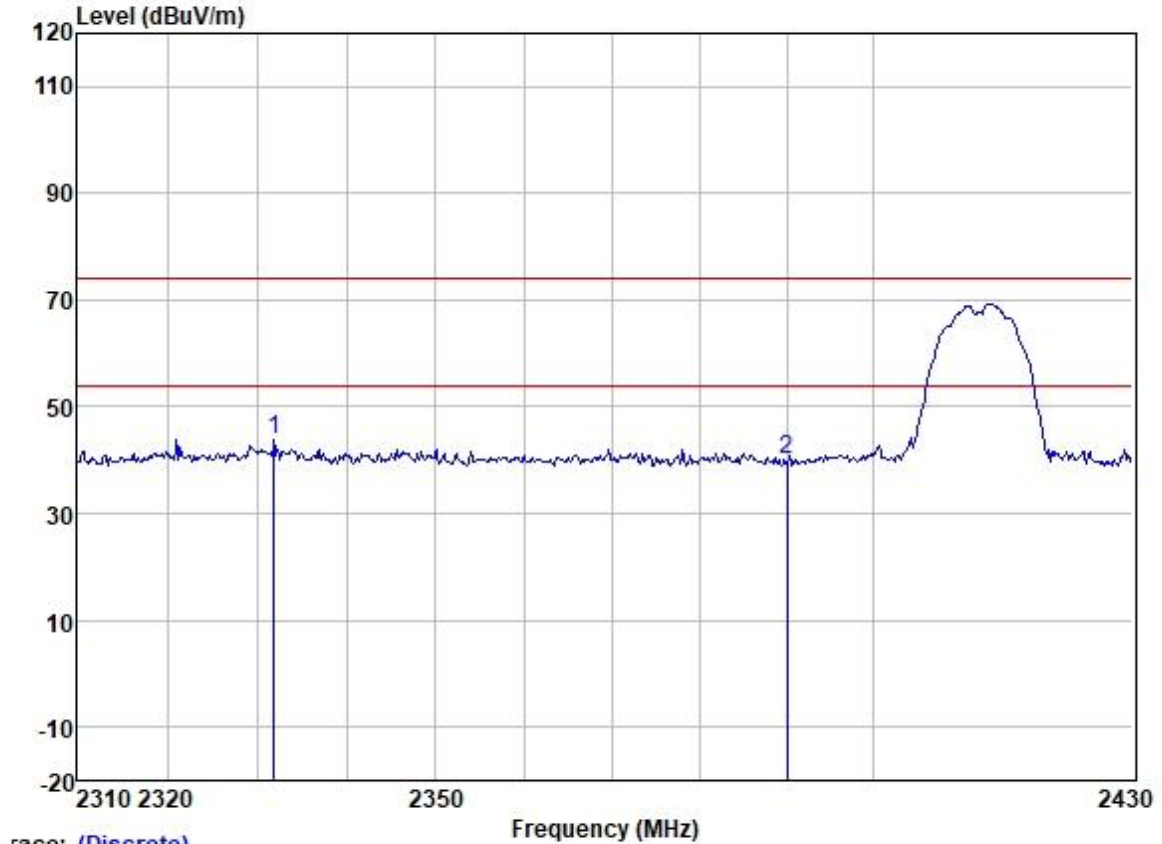
### 7.6.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

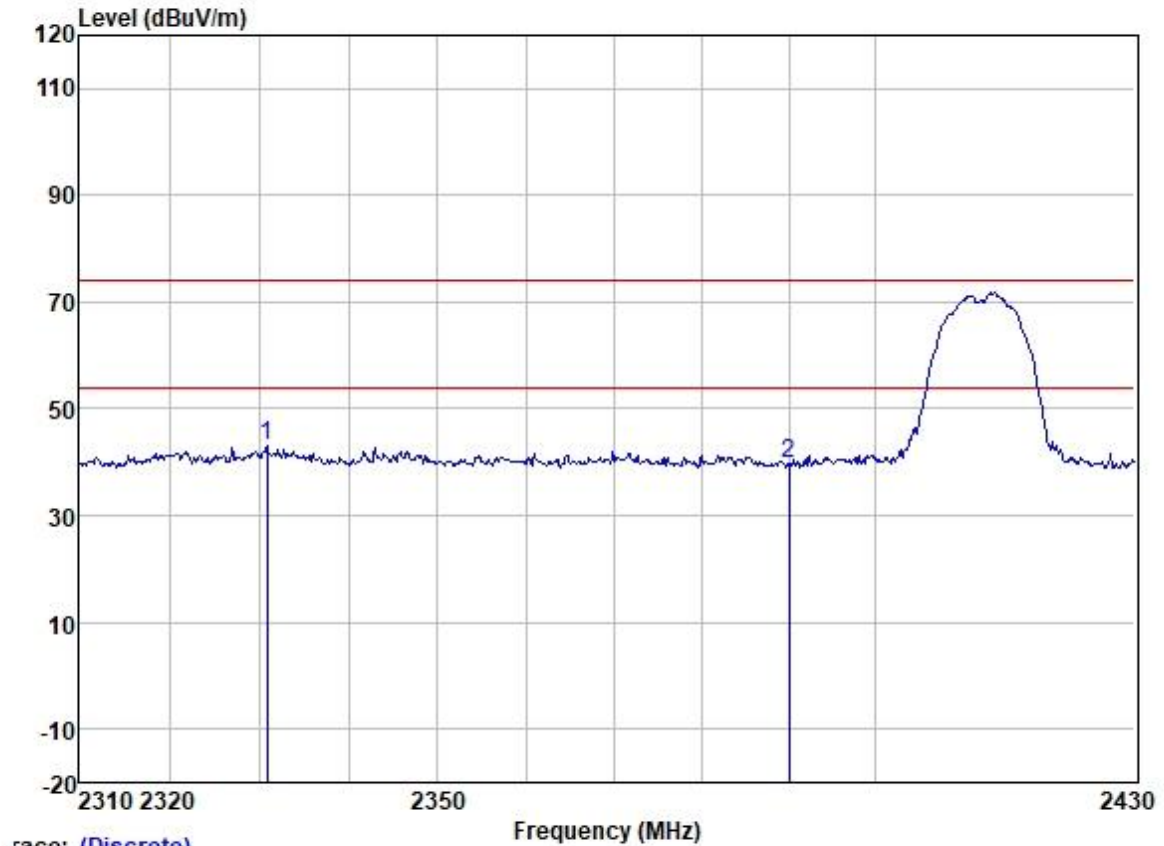
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Test Mode: 00; Polarity: Vertical; Modulation: 802.11b; Bandwidth: 20MHz; Channel: Low



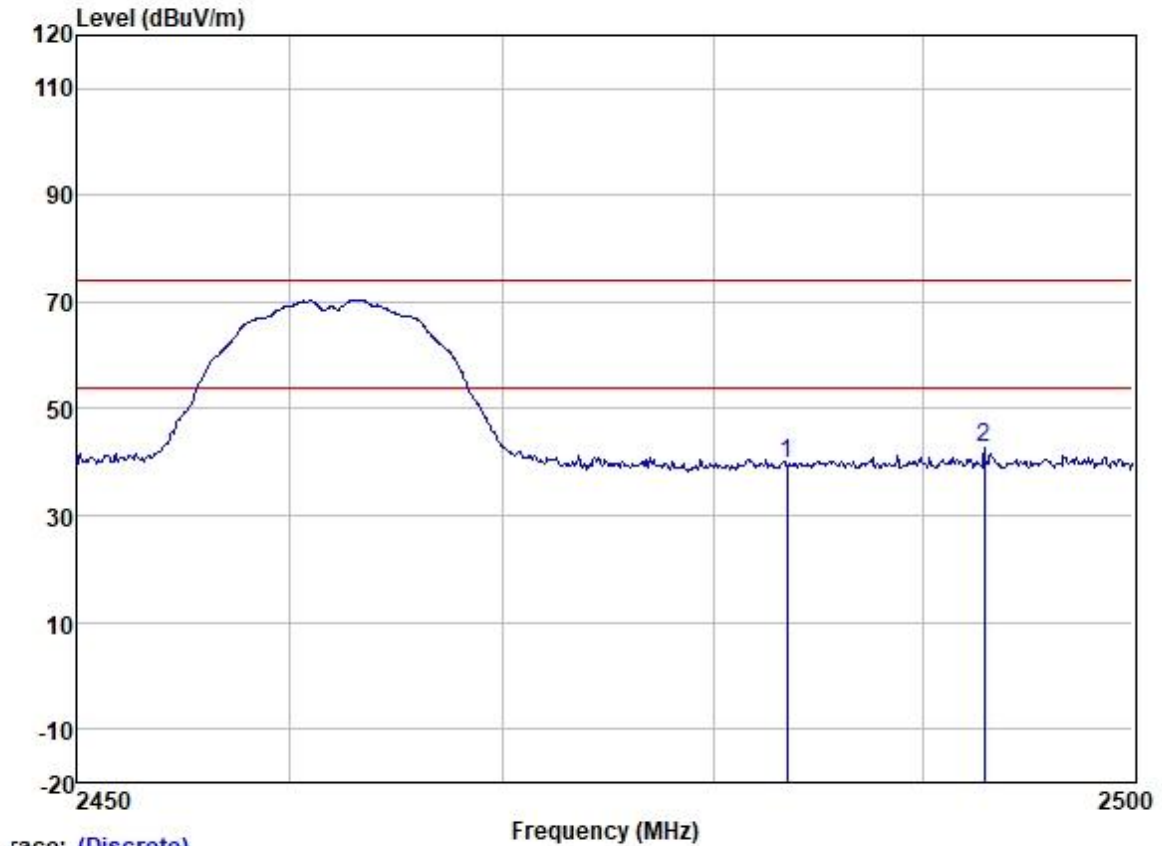
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2331.862	49.14	27.20	4.76	37.15	43.95	74.00	-30.05	VERTICAL	Peak
2	2390.000	45.57	27.33	4.22	37.14	39.98	74.00	-34.02	VERTICAL	Peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2330.918	48.41	27.20	4.76	37.15	43.22	74.00	-30.78	HORIZONTAL	Peak
2	2390.000	45.29	27.33	4.22	37.14	39.70	74.00	-34.30	HORIZONTAL	Peak

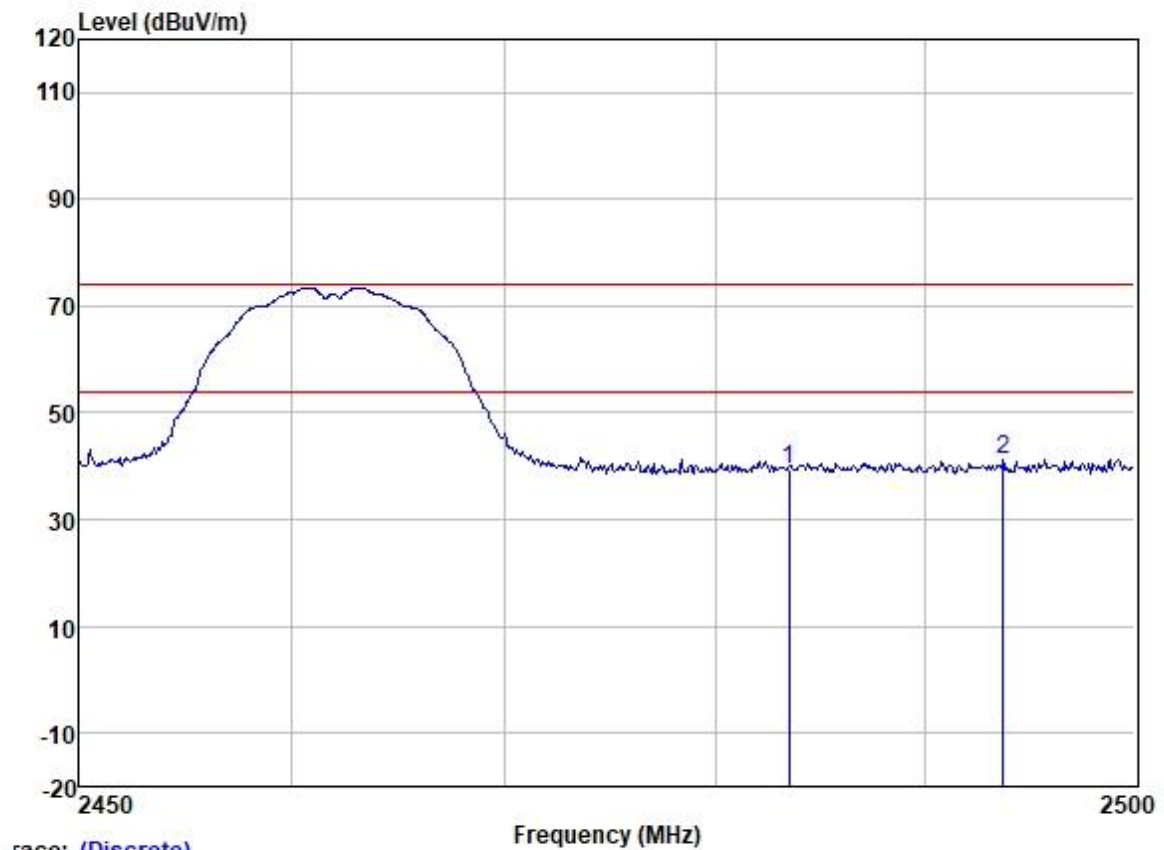
Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2483.500	45.95	27.48	3.42	37.13	39.72	74.00	-34.28	VERTICAL	Peak
2	2492.889	48.90	27.49	3.33	37.12	42.60	74.00	-31.40	VERTICAL	Peak

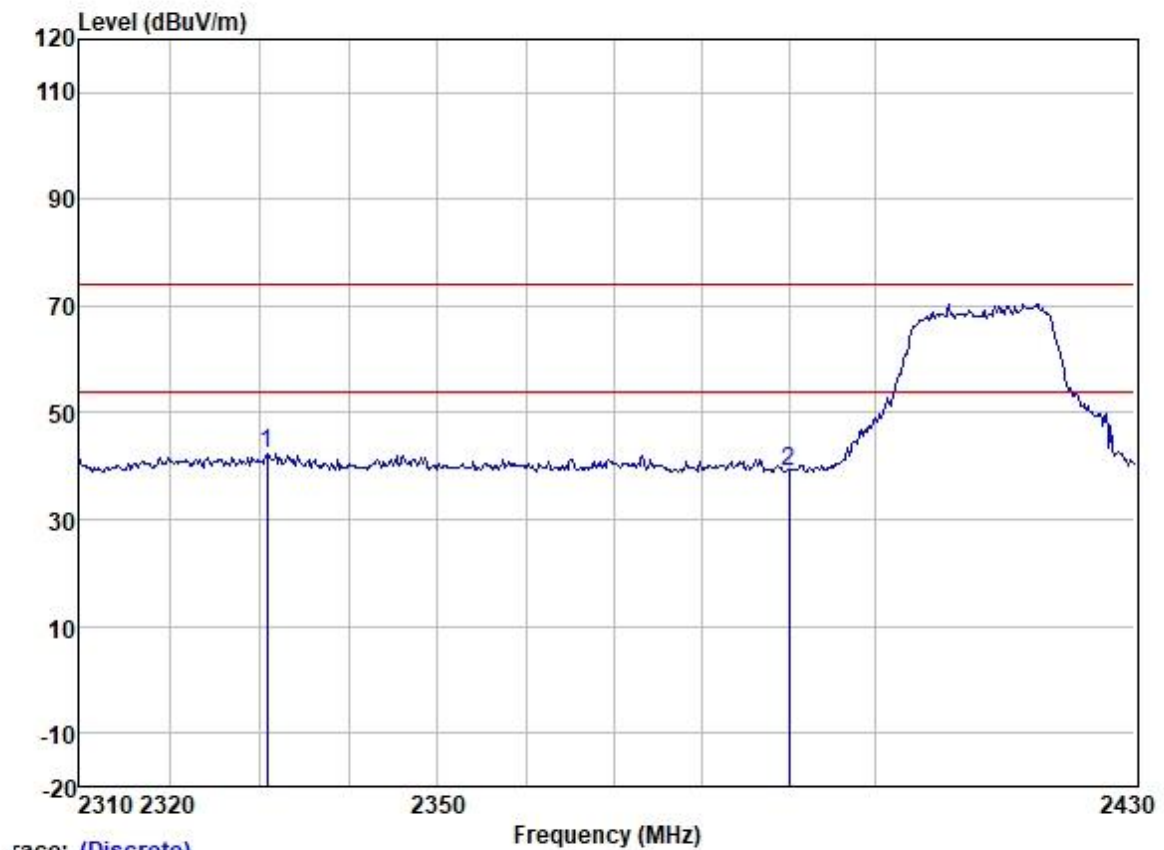
Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

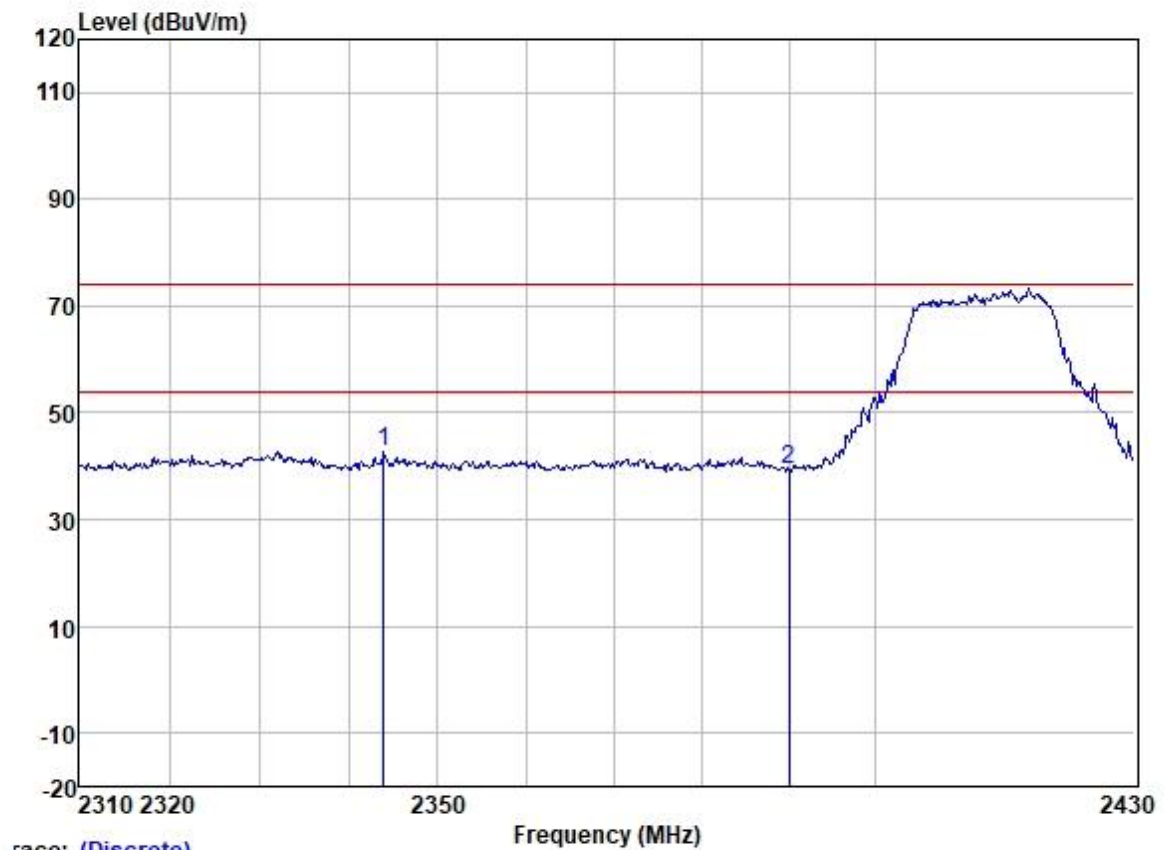
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	2483.500	45.66	27.48	3.42	37.13	39.43	74.00	-34.57	HORIZONTAL Peak
2	2493.695	47.43	27.49	3.33	37.12	41.13	74.00	-32.87	HORIZONTAL Peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



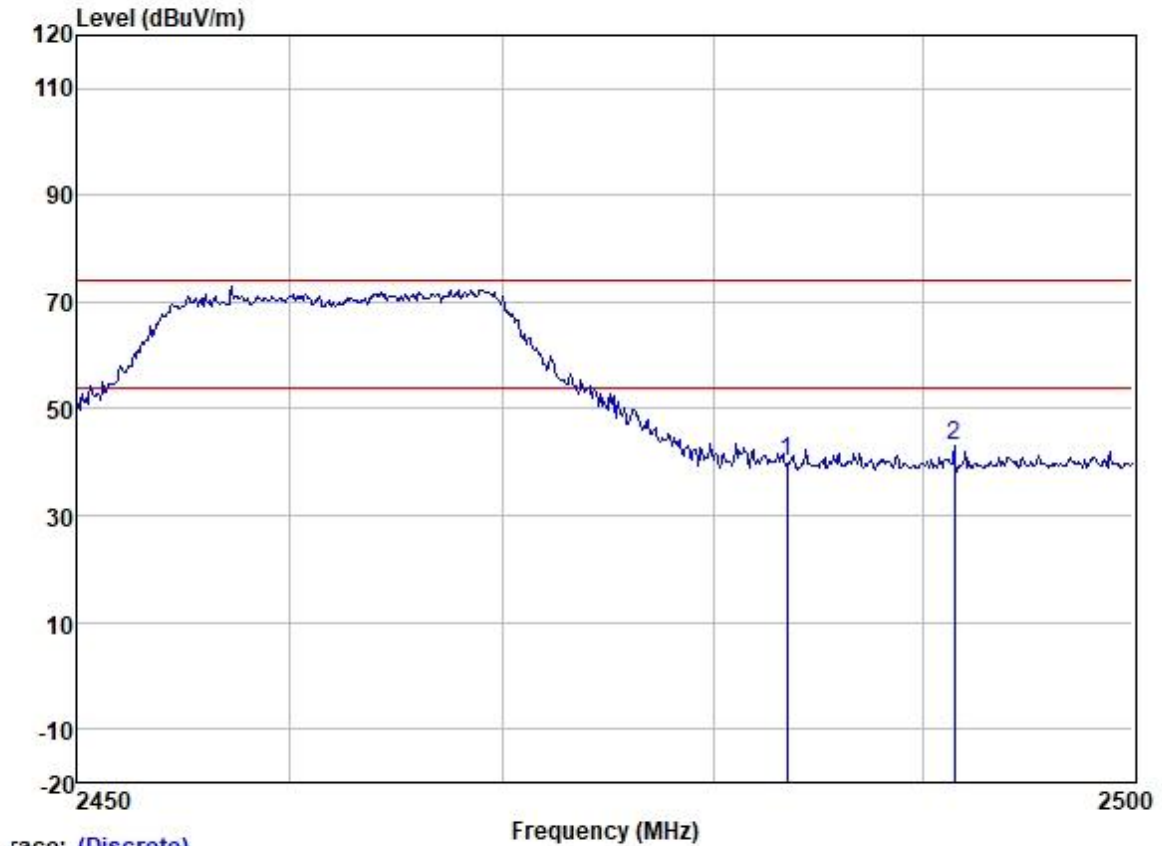
	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2330.918	47.49	27.20	4.76	37.15	42.30	74.00	-31.70	VERTICAL	Peak
2	2390.000	44.73	27.33	4.22	37.14	39.14	74.00	-34.86	VERTICAL	Peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2343.939	47.88	27.24	4.60	37.15	42.57	74.00	-31.43	HORIZONTAL	Peak
2	2390.000	44.92	27.33	4.22	37.14	39.33	74.00	-34.67	HORIZONTAL	Peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

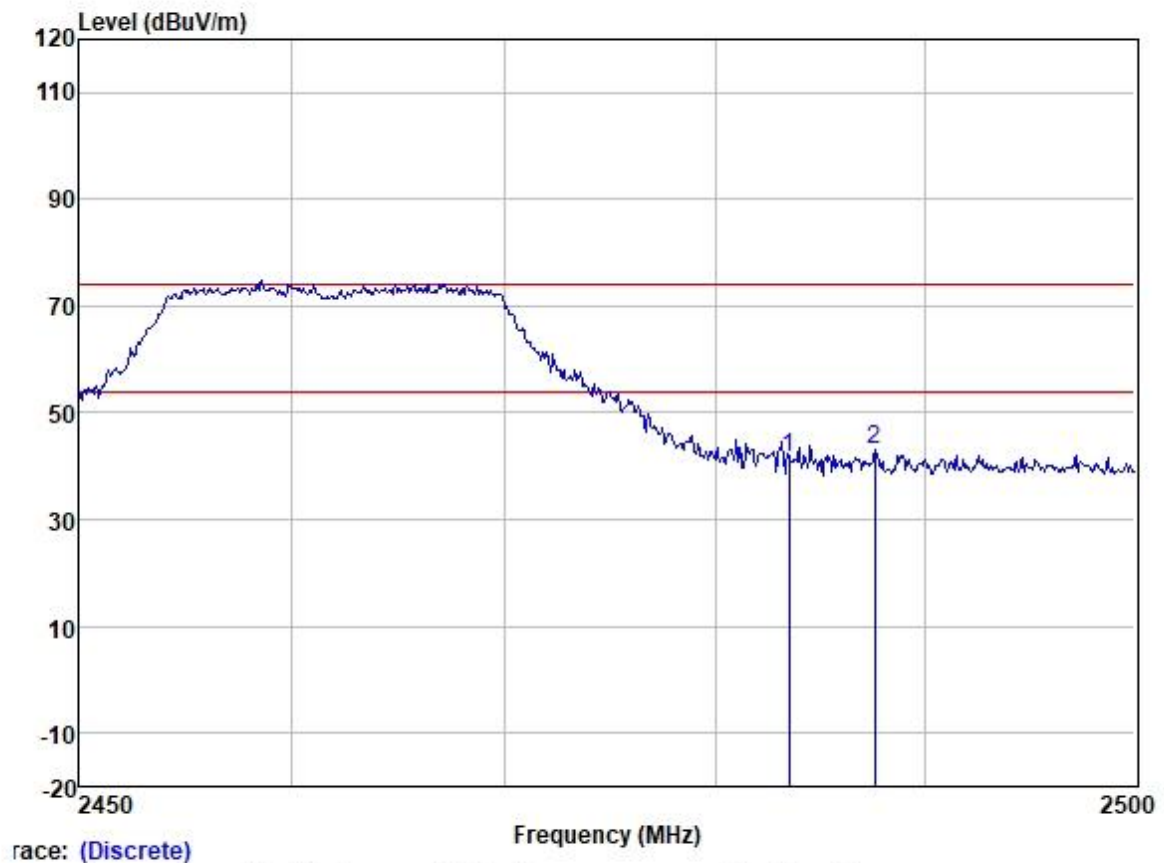
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	2483.500	46.40	27.48	3.42	37.13	40.17	74.00 -33.83	VERTICAL	Peak
2	2491.479	49.26	27.49	3.33	37.12	42.96	74.00 -31.04	VERTICAL	Peak



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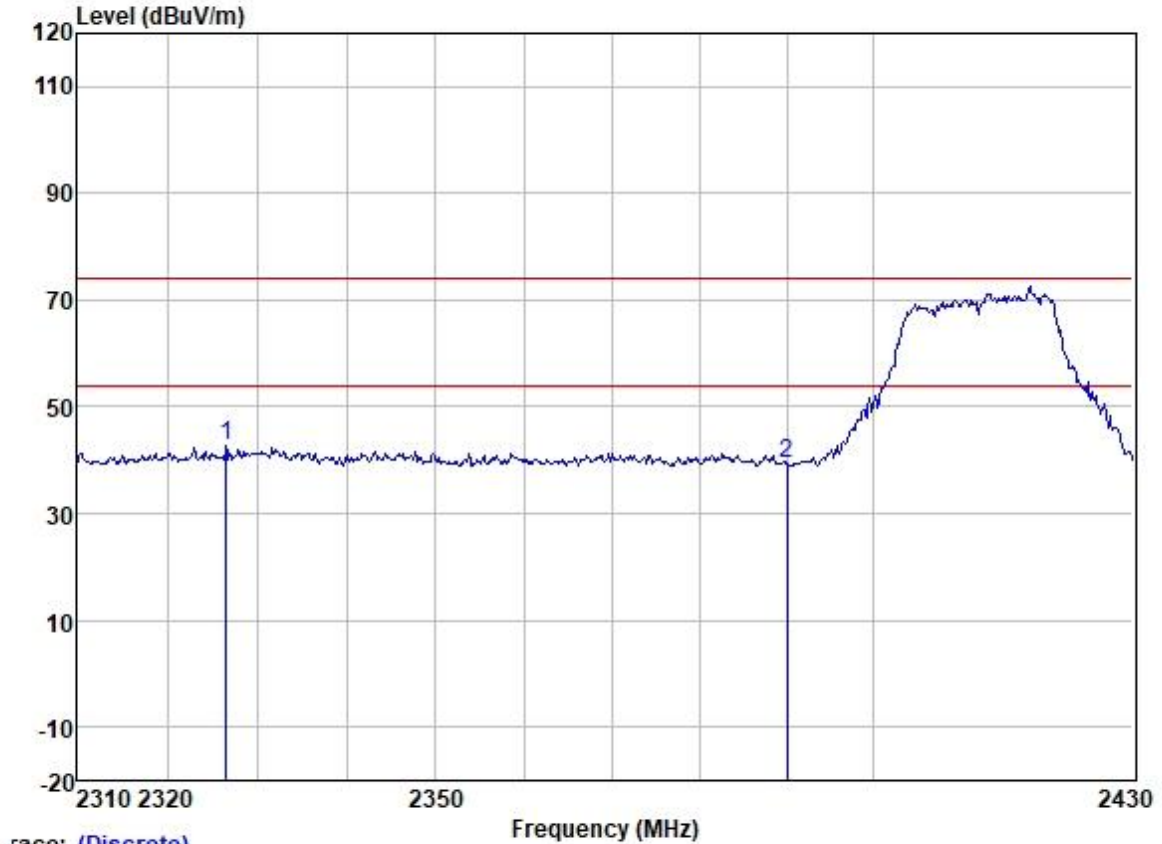
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2483.500	48.00	27.48	3.42	37.13	41.77	74.00	-32.23	HORIZONTAL	Peak
2	2487.556	49.28	27.48	3.42	37.12	43.06	74.00	-30.94	HORIZONTAL	Peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



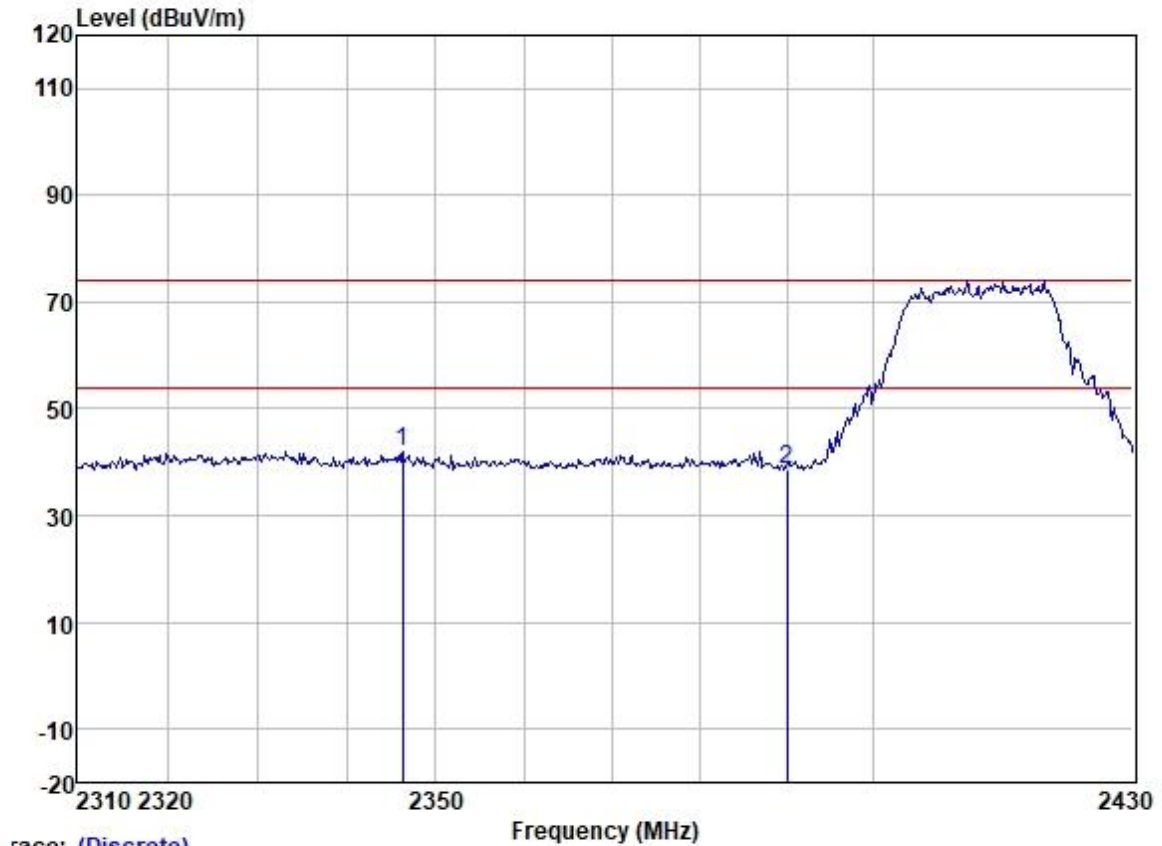
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2326.554	48.00	27.19	4.85	37.15	42.89	74.00	-31.11	VERTICAL	Peak
2	2390.000	44.83	27.33	4.22	37.14	39.24	74.00	-34.76	VERTICAL	Peak



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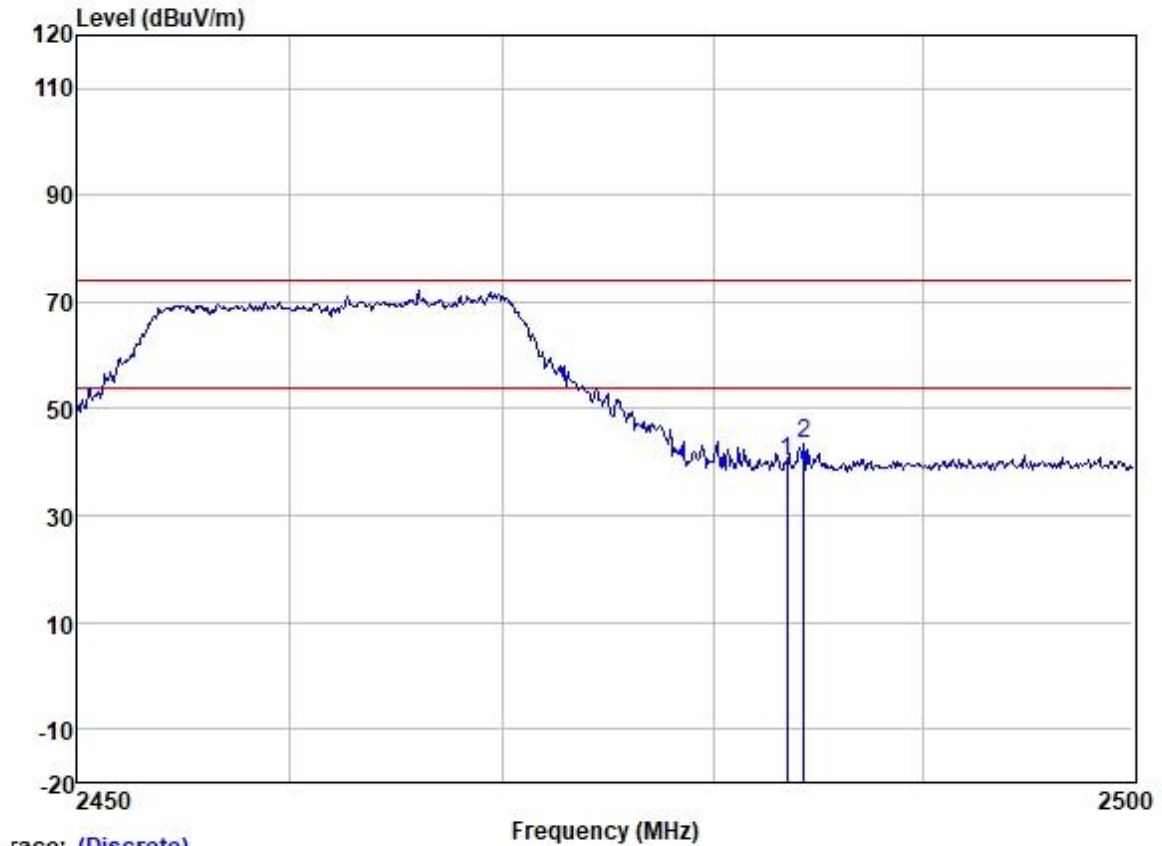
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2346.314	47.47	27.24	4.60	37.15	42.16	74.00	-31.84	HORIZONTAL	Peak
2	2390.000	44.13	27.33	4.22	37.14	38.54	74.00	-35.46	HORIZONTAL	Peak

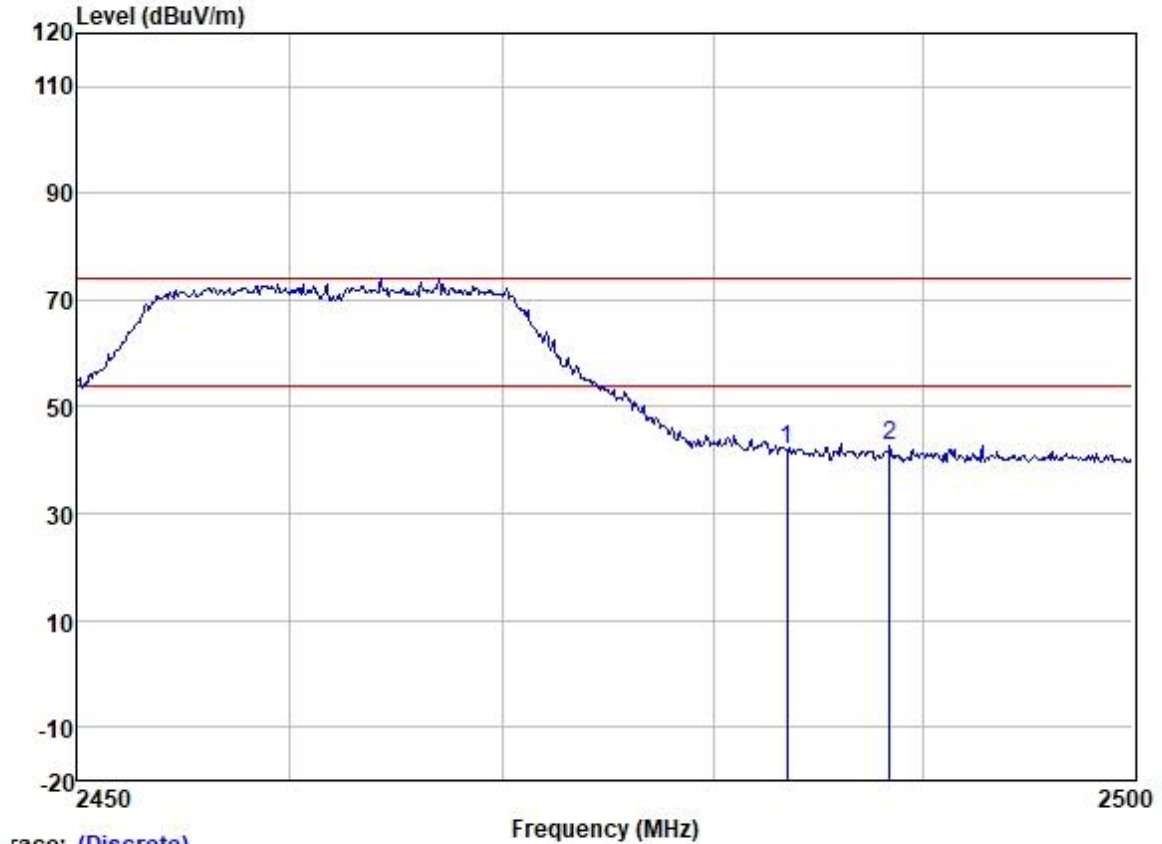
Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	2483.500	46.44	27.48	3.42	37.13	40.21	74.00 -33.79	VERTICAL	Peak
2	2484.292	49.82	27.48	3.42	37.13	43.59	74.00 -30.41	VERTICAL	Peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2483.500	48.08	27.48	3.42	37.13	41.85	74.00	-32.15	HORIZONTAL Peak
2	2488.360	48.99	27.48	3.42	37.12	42.77	74.00	-31.23	HORIZONTAL Peak

## 7.7 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209  
Test Method: ANSI C63.10 (2013) Section 6.4,6.5  
Test Distance: 3 m  
Limit:

Frequency (MHz)	Field strength (microvolts/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
960-1000	500	3

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C

Humidity: 63.3 % RH

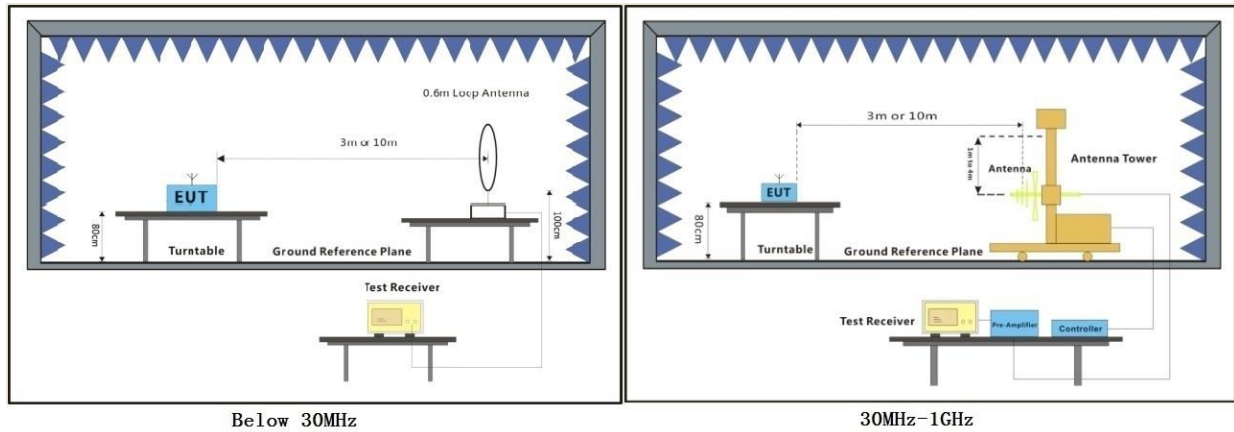
Atmospheric Pressure: 1005 mbar

### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
--------------------------	--------------	-------------

Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
------------	----	--

### 7.7.3 Test Setup Diagram



#### 7.7.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

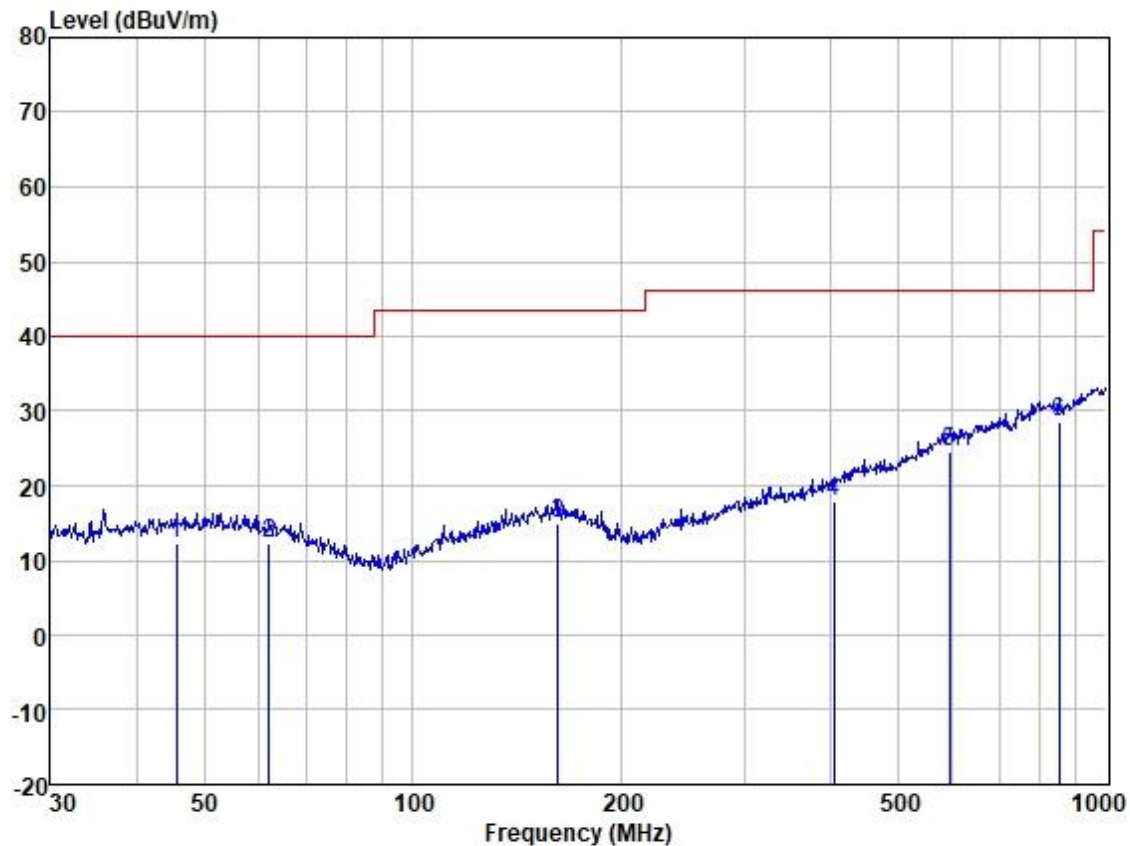
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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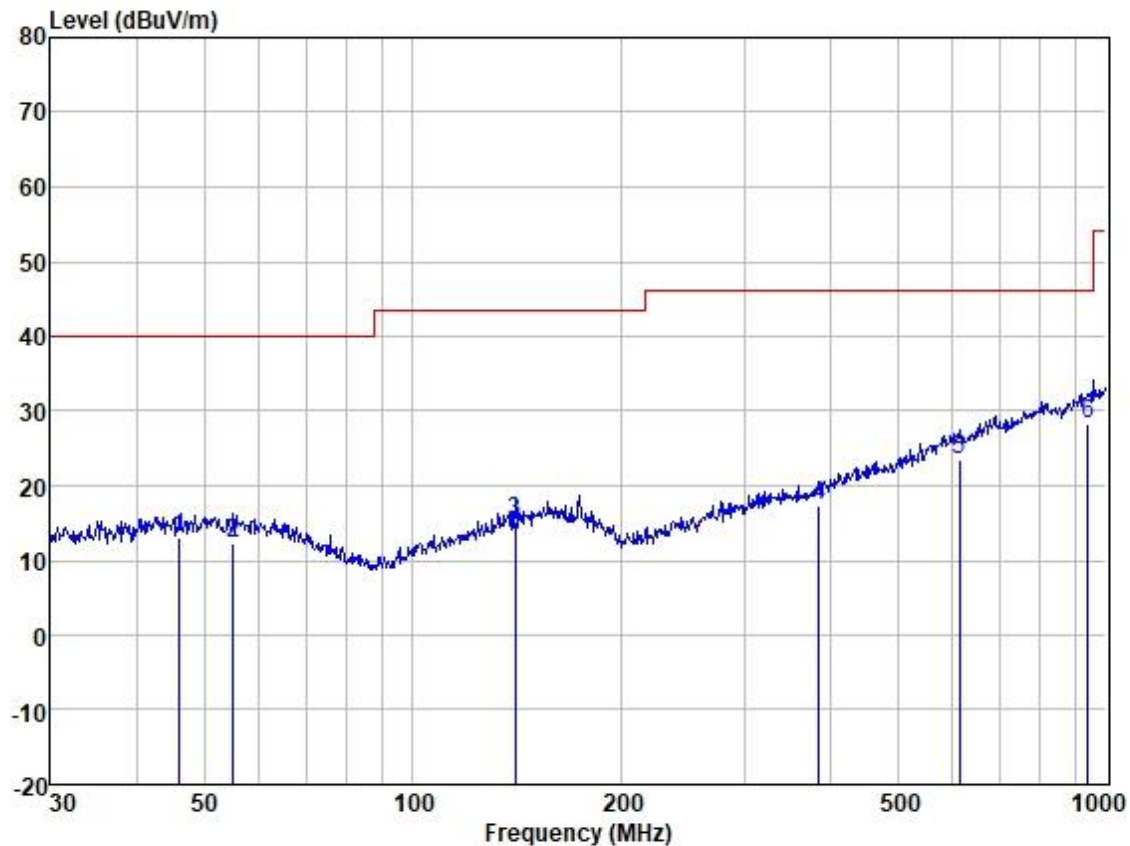
Test Mode: 00; Polarity: Horizontal



Site : SGS  
Job :  
Model :  
Power :  
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	45.535	24.36	13.93	1.12	27.10	12.31	40.00	-27.69	HORIZONTAL	QP
2	61.995	24.92	13.06	1.30	27.08	12.20	40.00	-27.80	HORIZONTAL	QP
3	162.041	25.79	13.56	2.34	26.67	15.02	43.50	-28.48	HORIZONTAL	QP
4	404.667	25.59	15.64	3.95	27.22	17.96	46.00	-28.04	HORIZONTAL	QP
5	593.050	27.74	19.92	5.10	28.19	24.57	46.00	-21.43	HORIZONTAL	QP
6	854.025	27.38	22.42	6.55	27.78	28.57	46.00	-17.43	HORIZONTAL	QP

Test Mode: 00; Polarity: Vertical



Site : SGS  
Job :  
Model :  
Power :  
Test Mode :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	46.016	25.07	13.93	1.13	27.10	13.03	40.00	-26.97	VERTICAL	QP
2	55.027	24.24	13.81	1.19	27.09	12.15	40.00	-27.85	VERTICAL	QP
3	140.342	26.90	13.05	2.10	26.82	15.23	43.50	-28.27	VERTICAL	QP
4	385.281	25.45	15.25	3.87	27.15	17.42	46.00	-28.58	VERTICAL	QP
5	614.214	26.33	20.09	5.23	28.19	23.46	46.00	-22.54	VERTICAL	QP
6	942.131	24.75	23.99	7.12	27.61	28.25	46.00	-17.75	VERTICAL	QP

### 7.8 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

#### 7.8.1 E.U.T. Operation

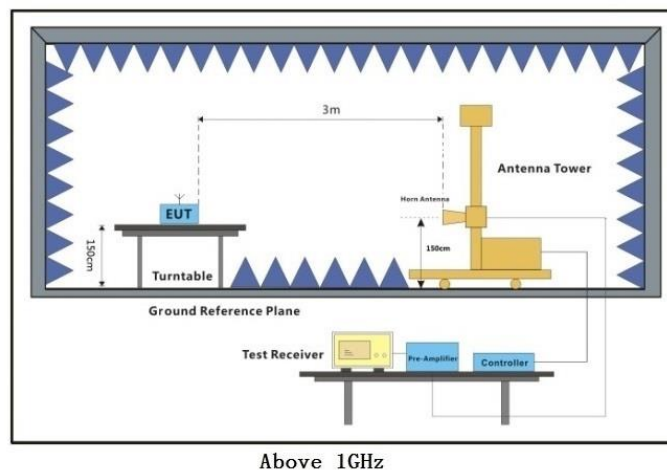
Operating Environment:

Temperature: 22.3 °C Humidity: 57.5 % RH Atmospheric Pressure: 1000 mbar

#### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

#### 7.8.3 Test Setup Diagram



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#### 7.8.4 Measurement Procedure and Data

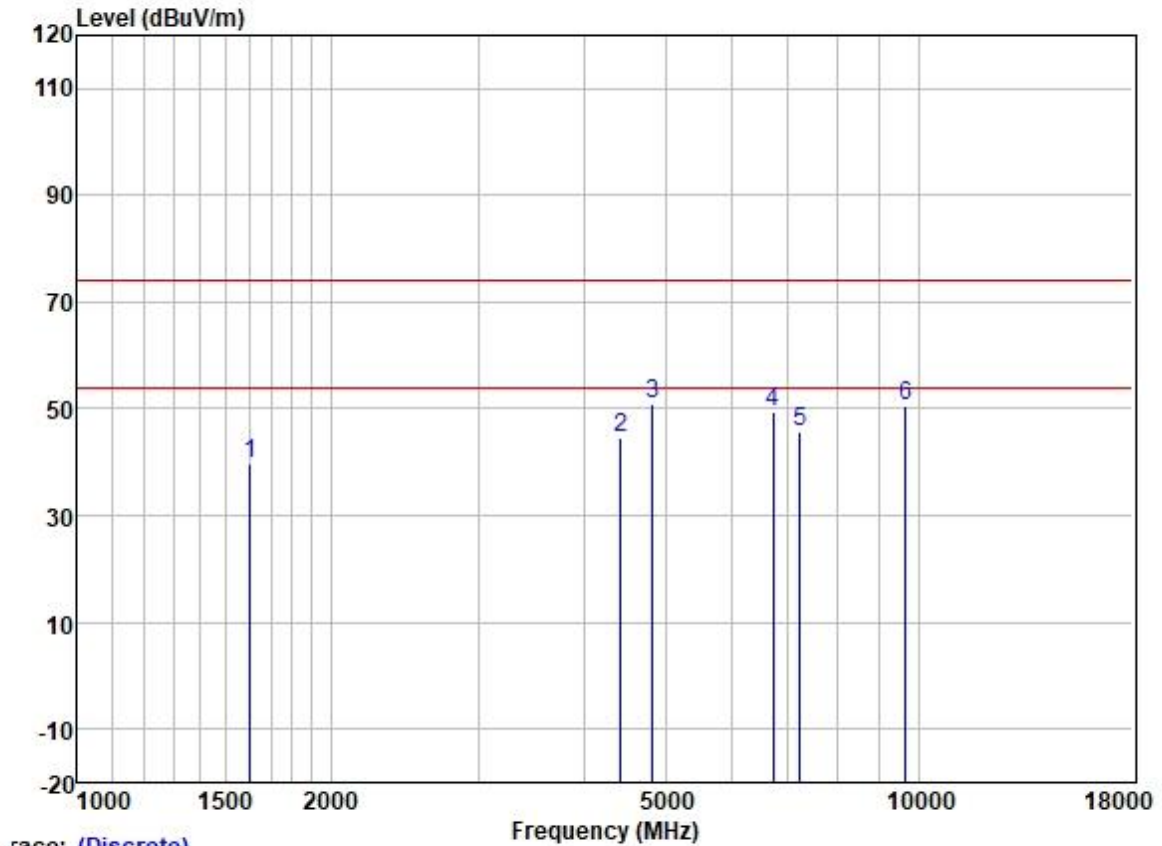
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

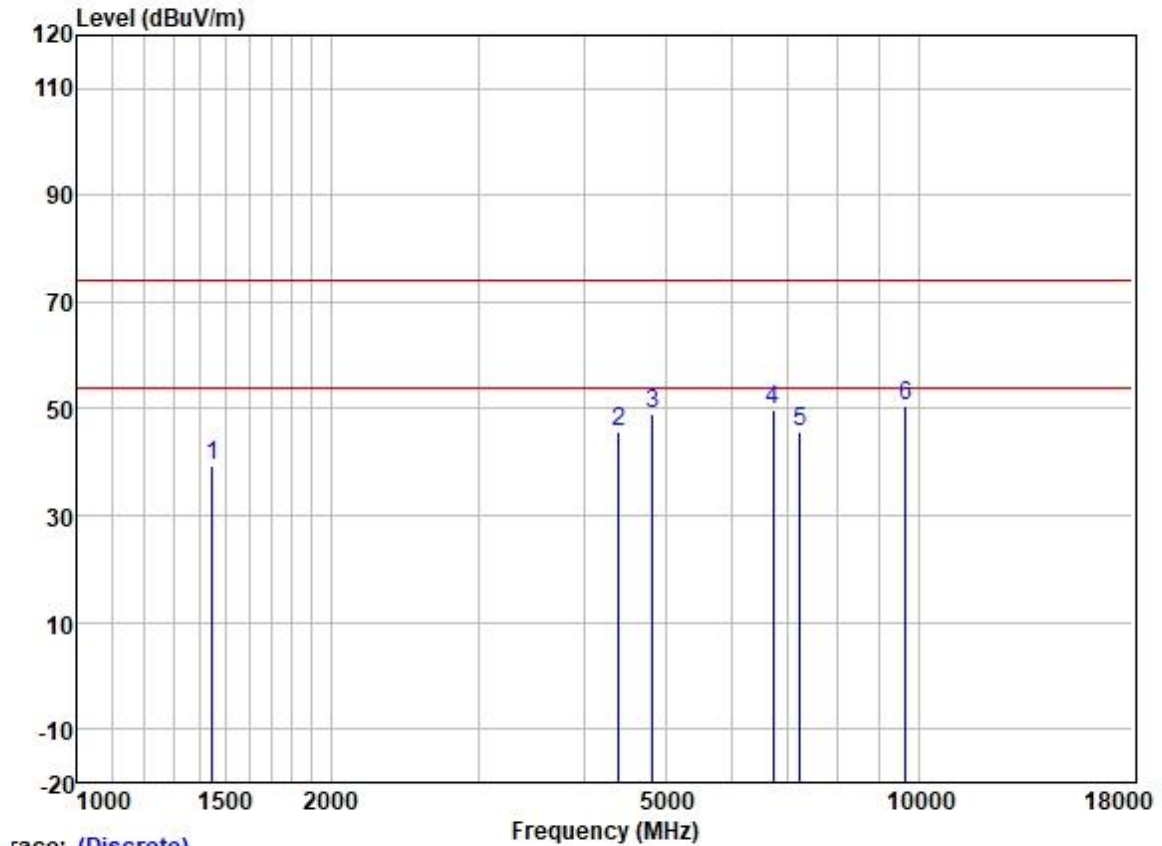


Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



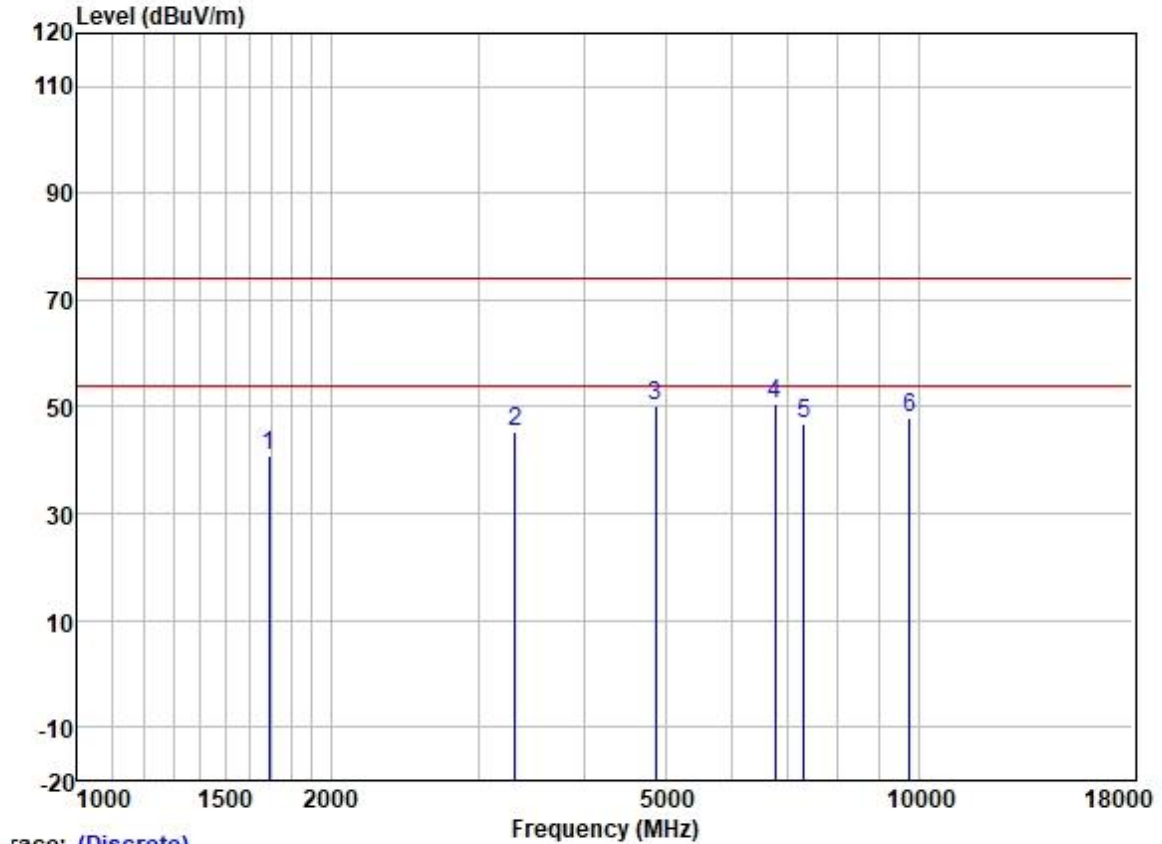
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1606.441	48.87	25.59	3.02	37.58	39.90	74.00	-34.10	VERTICAL	peak
2	4430.628	45.18	30.72	5.36	36.62	44.64	74.00	-29.36	VERTICAL	peak
3	4824.000	50.64	31.45	5.46	36.50	51.05	74.00	-22.95	VERTICAL	peak
4	6717.762	45.31	34.44	6.29	36.42	49.62	74.00	-24.38	VERTICAL	peak
5	7236.000	40.73	35.70	6.35	36.94	45.84	74.00	-28.16	VERTICAL	peak
6	9648.000	41.23	38.40	7.89	36.85	50.67	74.00	-23.33	VERTICAL	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1447.688	48.97	25.45	2.81	37.84	39.39	74.00	-34.61	HORIZONTAL	peak
2	4405.090	46.45	30.68	5.37	36.63	45.87	74.00	-28.13	HORIZONTAL	peak
3	4824.000	48.55	31.45	5.46	36.50	48.96	74.00	-25.04	HORIZONTAL	peak
4	6717.762	45.36	34.44	6.29	36.42	49.67	74.00	-24.33	HORIZONTAL	peak
5	7236.000	40.45	35.70	6.35	36.94	45.56	74.00	-28.44	HORIZONTAL	peak
6	9648.000	40.96	38.40	7.89	36.85	50.40	74.00	-23.60	HORIZONTAL	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



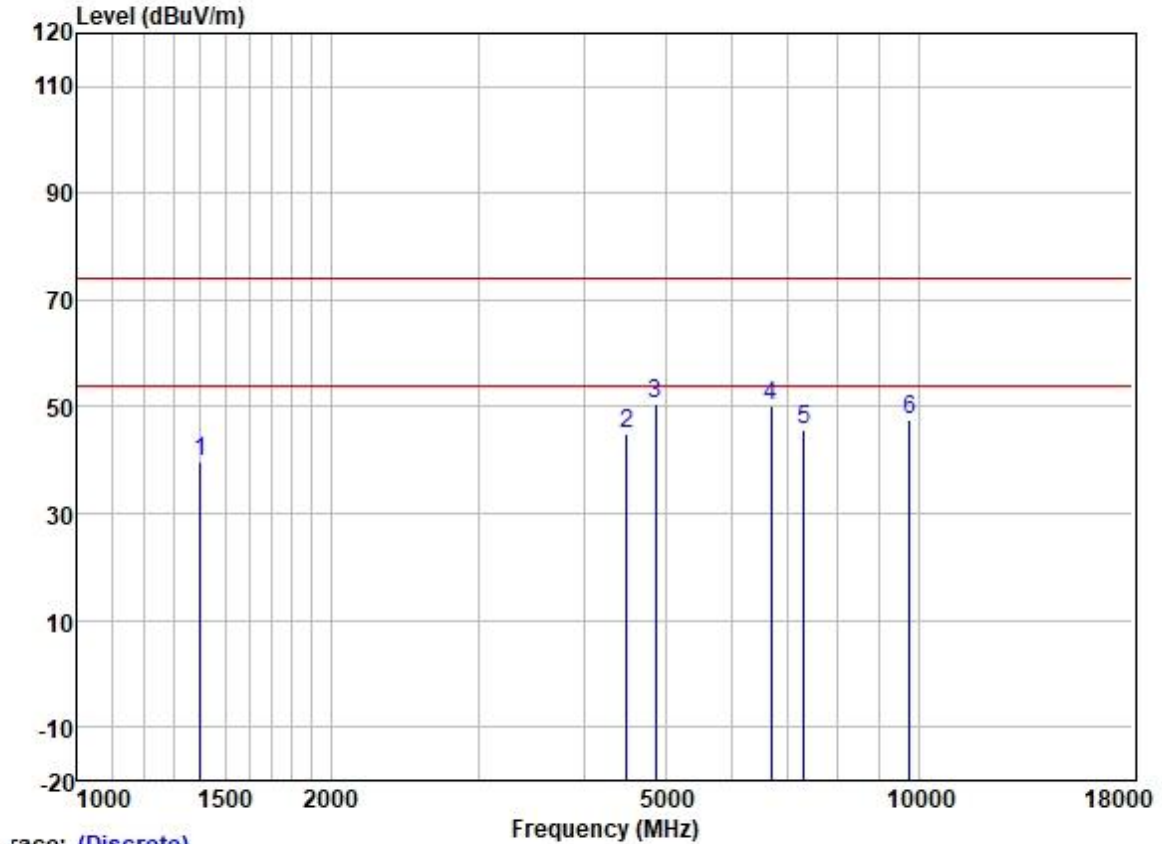
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1692.231	49.13	25.70	3.30	37.46	40.67	74.00	-33.33	VERTICAL	peak
2	3318.471	49.10	28.77	4.26	36.82	45.31	74.00	-28.69	VERTICAL	peak
3	4874.000	49.49	31.54	5.49	36.48	50.04	74.00	-23.96	VERTICAL	peak
4	6756.708	45.99	34.56	6.32	36.44	50.43	74.00	-23.57	VERTICAL	peak
5	7311.000	41.64	35.93	6.32	36.99	46.90	74.00	-27.10	VERTICAL	peak
6	9748.000	38.98	38.50	7.43	36.83	48.08	74.00	-25.92	VERTICAL	peak



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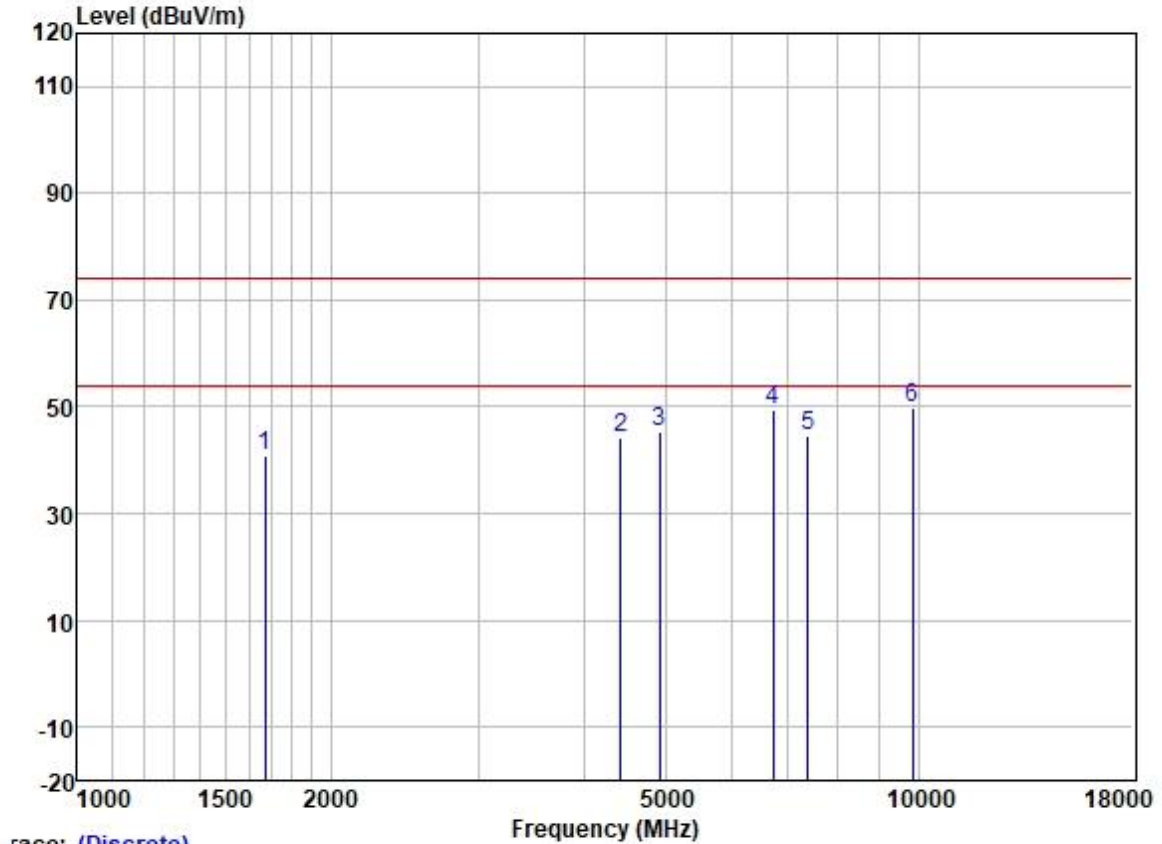
Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1398.336	49.49	25.39	2.77	37.92	39.73	74.00	-34.27	HORIZONTAL peak
2	4495.125	45.47	30.80	5.33	36.60	45.00	74.00	-29.00	HORIZONTAL peak
3	4874.000	49.95	31.54	5.49	36.48	50.50	74.00	-23.50	HORIZONTAL peak
4	6679.040	46.11	34.33	6.27	36.39	50.32	74.00	-23.68	HORIZONTAL peak
5	7311.000	40.50	35.93	6.32	36.99	45.76	74.00	-28.24	HORIZONTAL peak
6	9748.000	38.47	38.50	7.43	36.83	47.57	74.00	-26.43	HORIZONTAL peak

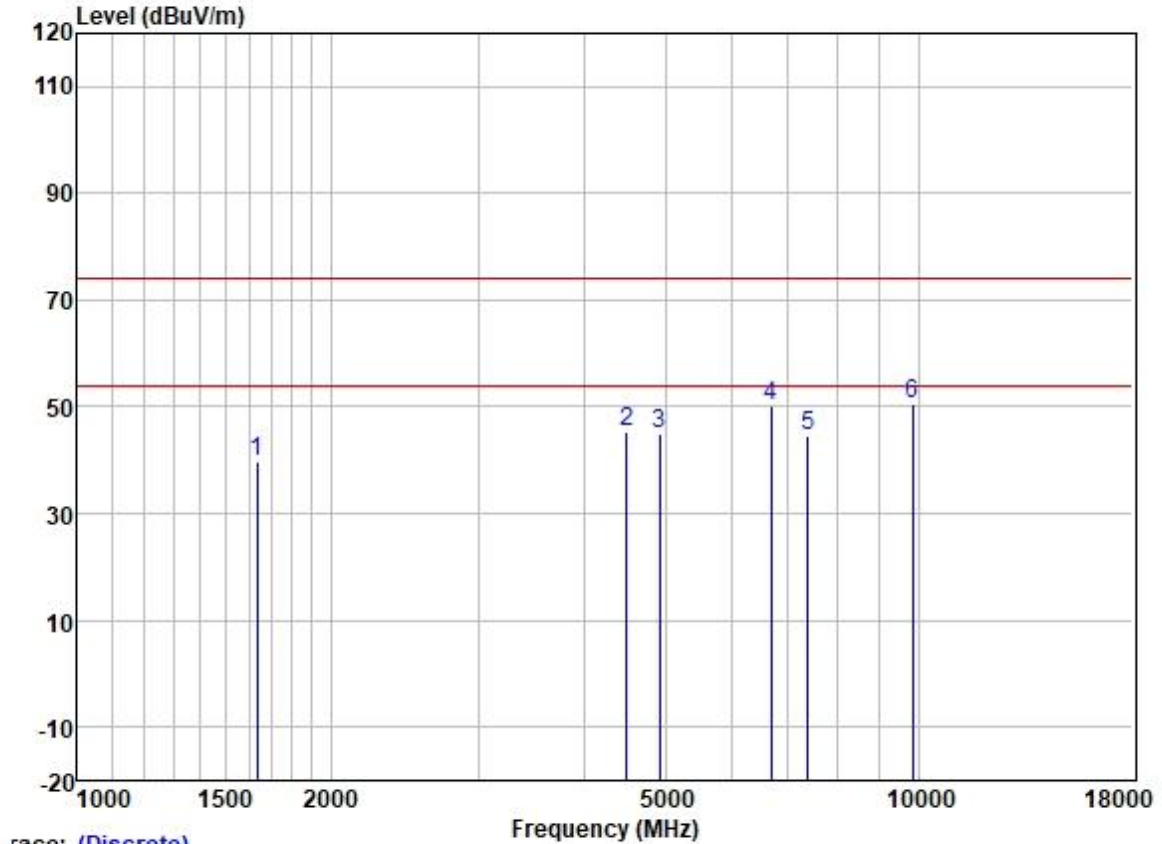
Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1672.779	49.47	25.67	3.21	37.48	40.87	74.00	-33.13	VERTICAL	peak
2	4430.628	44.93	30.72	5.36	36.62	44.39	74.00	-29.61	VERTICAL	peak
3	4924.000	44.82	31.62	5.51	36.45	45.50	74.00	-28.50	VERTICAL	peak
4	6717.762	45.07	34.44	6.29	36.42	49.38	74.00	-24.62	VERTICAL	peak
5	7386.000	39.13	36.17	6.30	37.04	44.56	74.00	-29.44	VERTICAL	peak
6	9848.000	41.02	38.58	7.06	36.82	49.84	74.00	-24.16	VERTICAL	peak

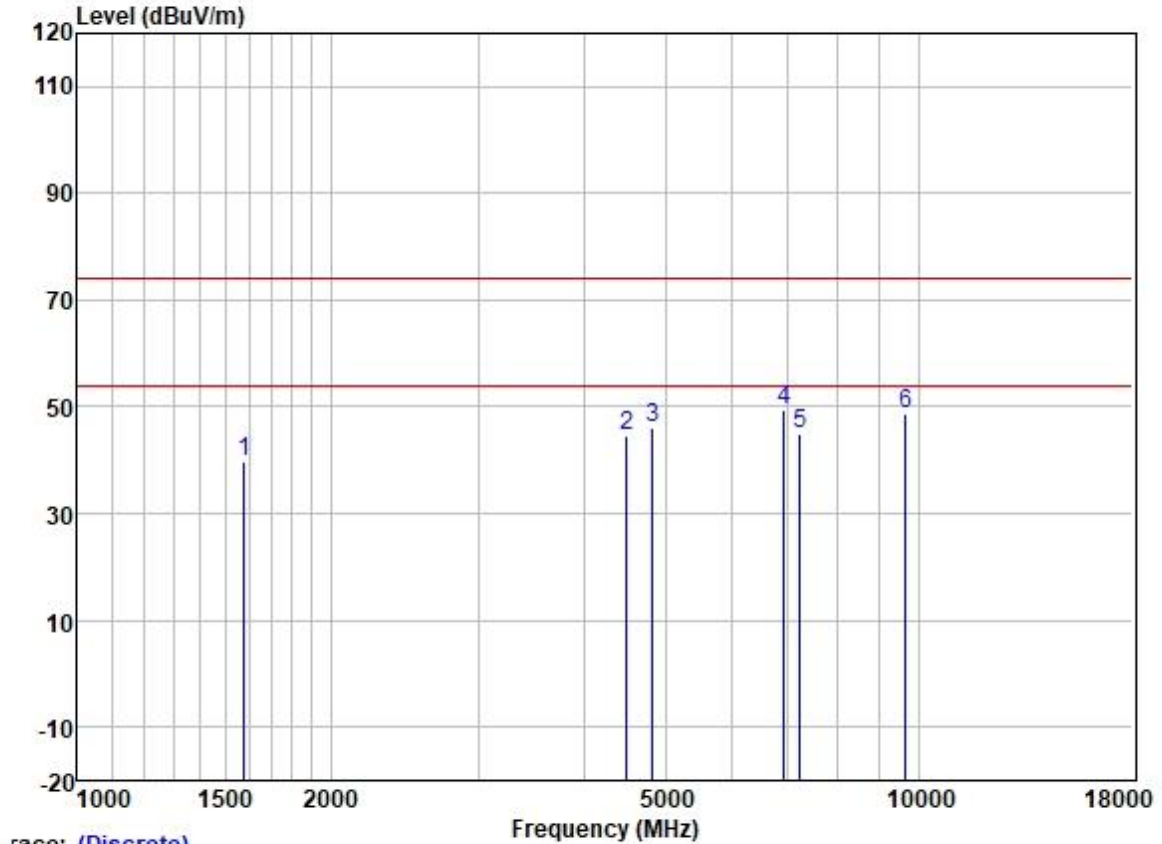
Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1634.543	48.74	25.62	3.09	37.55	39.90	74.00	-34.10	HORIZONTAL	peak
2	4495.125	45.70	30.80	5.33	36.60	45.23	74.00	-28.77	HORIZONTAL	peak
3	4924.000	44.22	31.62	5.51	36.45	44.90	74.00	-29.10	HORIZONTAL	peak
4	6679.040	45.83	34.33	6.27	36.39	50.04	74.00	-23.96	HORIZONTAL	peak
5	7386.000	39.25	36.17	6.30	37.04	44.68	74.00	-29.32	HORIZONTAL	peak
6	9848.000	41.62	38.58	7.06	36.82	50.44	74.00	-23.56	HORIZONTAL	peak

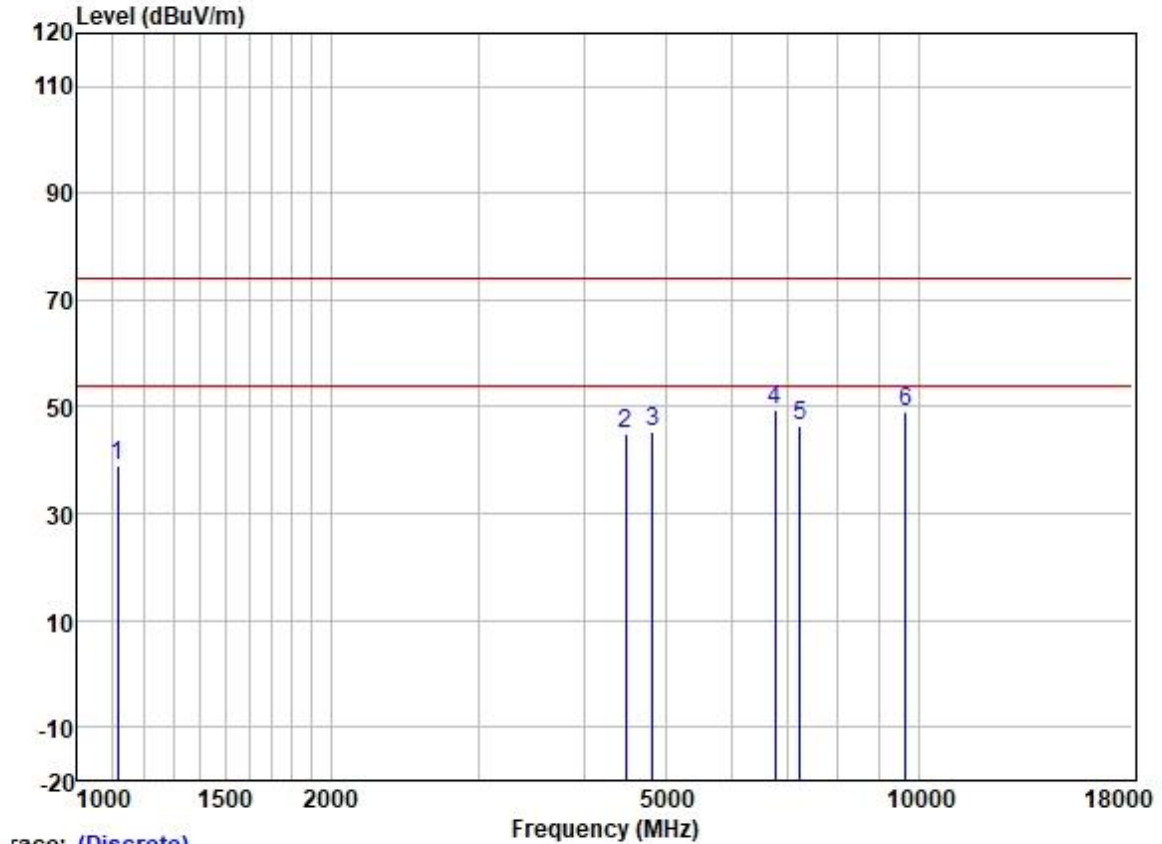
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Trace: (Discrete)

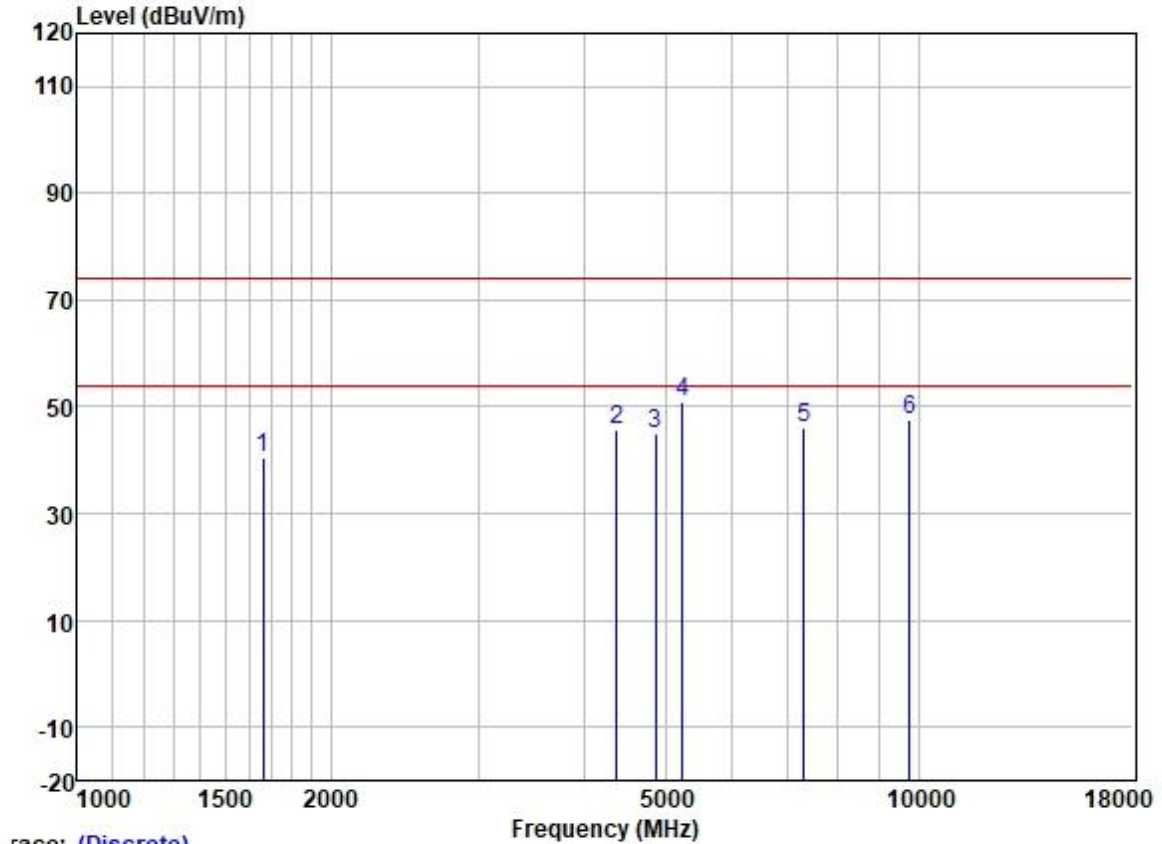
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1578.822	48.85	25.56	2.99	37.62	39.78	74.00	-34.22	VERTICAL peak
2	4495.125	44.93	30.80	5.33	36.60	44.46	74.00	-29.54	VERTICAL peak
3	4824.000	45.58	31.45	5.46	36.50	45.99	74.00	-28.01	VERTICAL peak
4	6914.763	44.77	34.89	6.39	36.60	49.45	74.00	-24.55	VERTICAL peak
5	7236.000	39.99	35.70	6.35	36.94	45.10	74.00	-28.90	VERTICAL peak
6	9648.000	39.43	38.40	7.89	36.85	48.87	74.00	-25.13	VERTICAL peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1116.093	50.23	24.40	2.52	38.21	38.94	74.00	-35.06	HORIZONTAL peak
2	4482.150	45.37	30.78	5.34	36.61	44.88	74.00	-29.12	HORIZONTAL peak
3	4824.000	44.87	31.45	5.46	36.50	45.28	74.00	-28.72	HORIZONTAL peak
4	6756.708	44.98	34.56	6.32	36.44	49.42	74.00	-24.58	HORIZONTAL peak
5	7236.000	41.30	35.70	6.35	36.94	46.41	74.00	-27.59	HORIZONTAL peak
6	9648.000	39.59	38.40	7.89	36.85	49.03	74.00	-24.97	HORIZONTAL peak

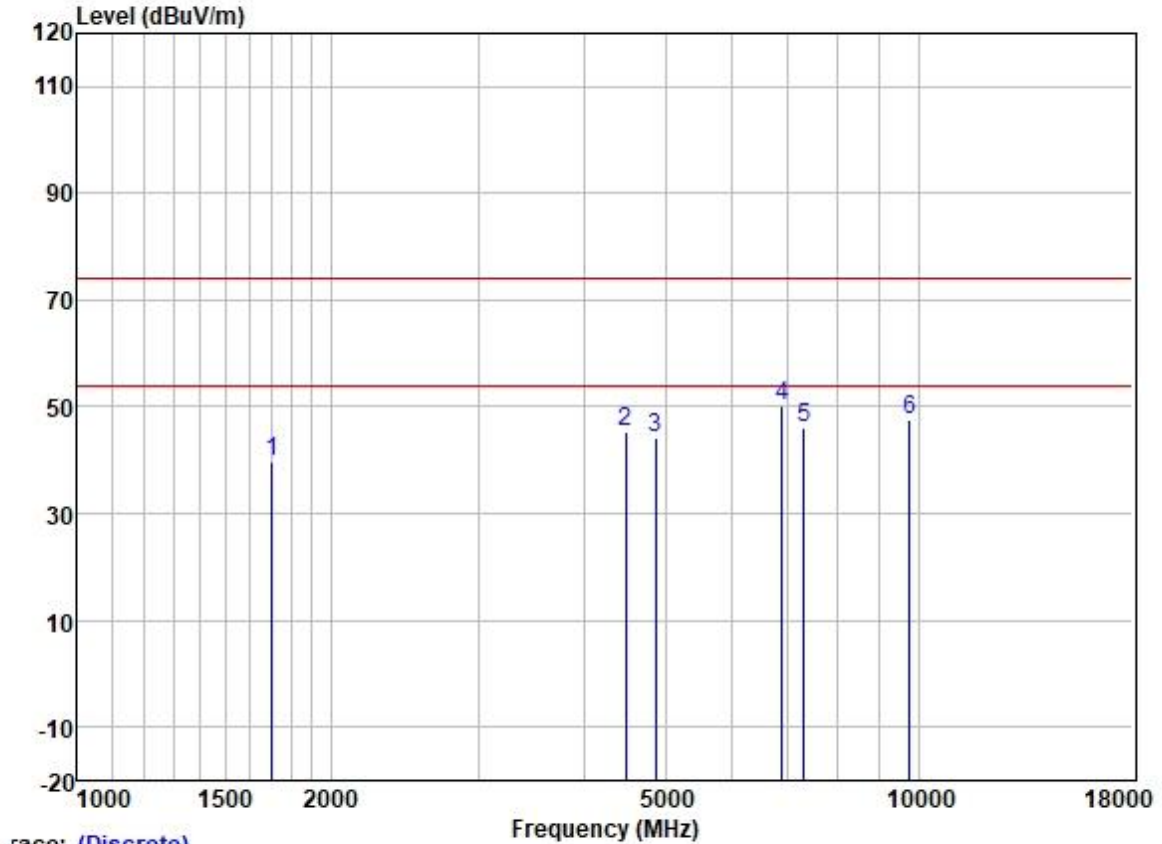
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Trace: (Discrete)

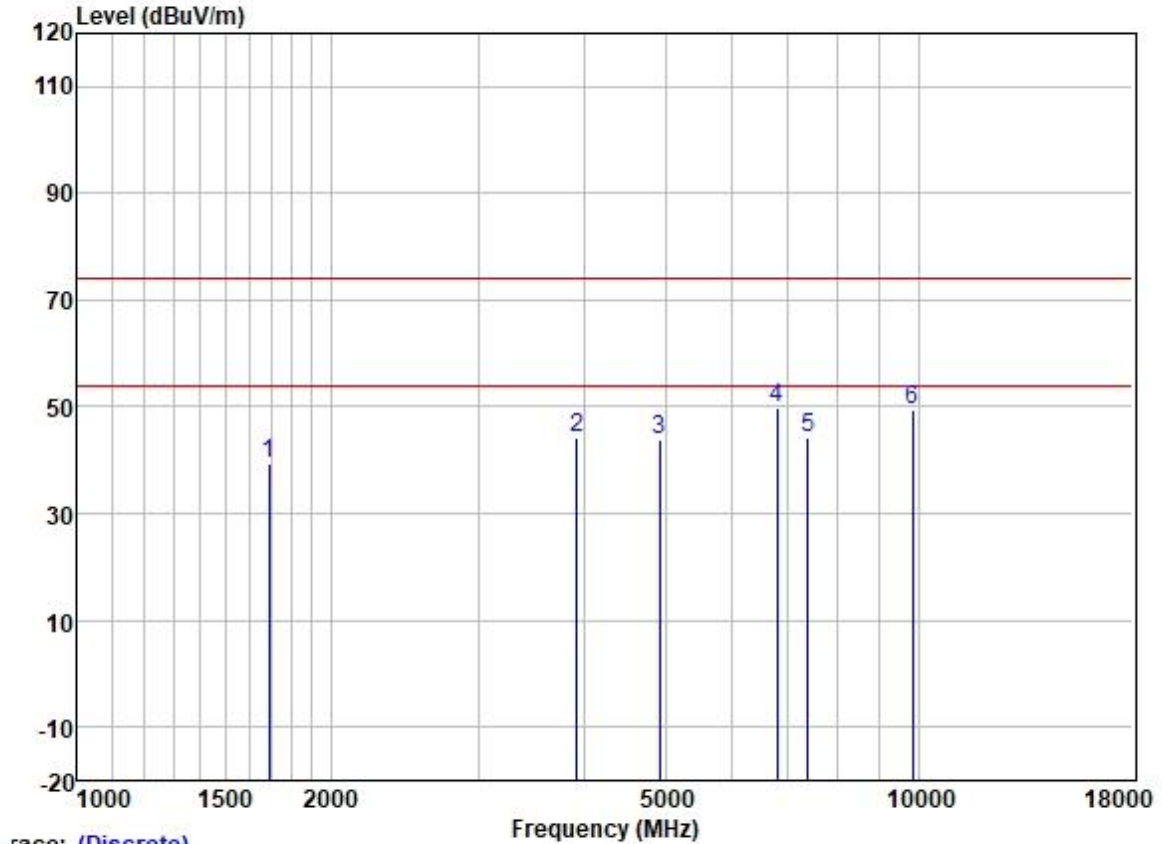
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	48.98	25.65	3.18	37.48	40.33	74.00	-33.67	VERTICAL	peak
2	4379.699	46.41	30.64	5.35	36.63	45.77	74.00	-28.23	VERTICAL	peak
3	4874.000	44.48	31.54	5.49	36.48	45.03	74.00	-28.97	VERTICAL	peak
4	5239.274	49.92	31.75	5.37	36.27	50.77	74.00	-23.23	VERTICAL	peak
5	7311.000	40.96	35.93	6.32	36.99	46.22	74.00	-27.78	VERTICAL	peak
6	9748.000	38.32	38.50	7.43	36.83	47.42	74.00	-26.58	VERTICAL	peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1702.042	48.26	25.72	3.36	37.46	39.88	74.00	-34.12	HORIZONTAL	peak
2	4482.150	45.74	30.78	5.34	36.61	45.25	74.00	-28.75	HORIZONTAL	peak
3	4874.000	43.71	31.54	5.49	36.48	44.26	74.00	-29.74	HORIZONTAL	peak
4	6874.906	45.71	34.82	6.37	36.55	50.35	74.00	-23.65	HORIZONTAL	peak
5	7311.000	40.72	35.93	6.32	36.99	45.98	74.00	-28.02	HORIZONTAL	peak
6	9748.000	38.46	38.50	7.43	36.83	47.56	74.00	-26.44	HORIZONTAL	peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



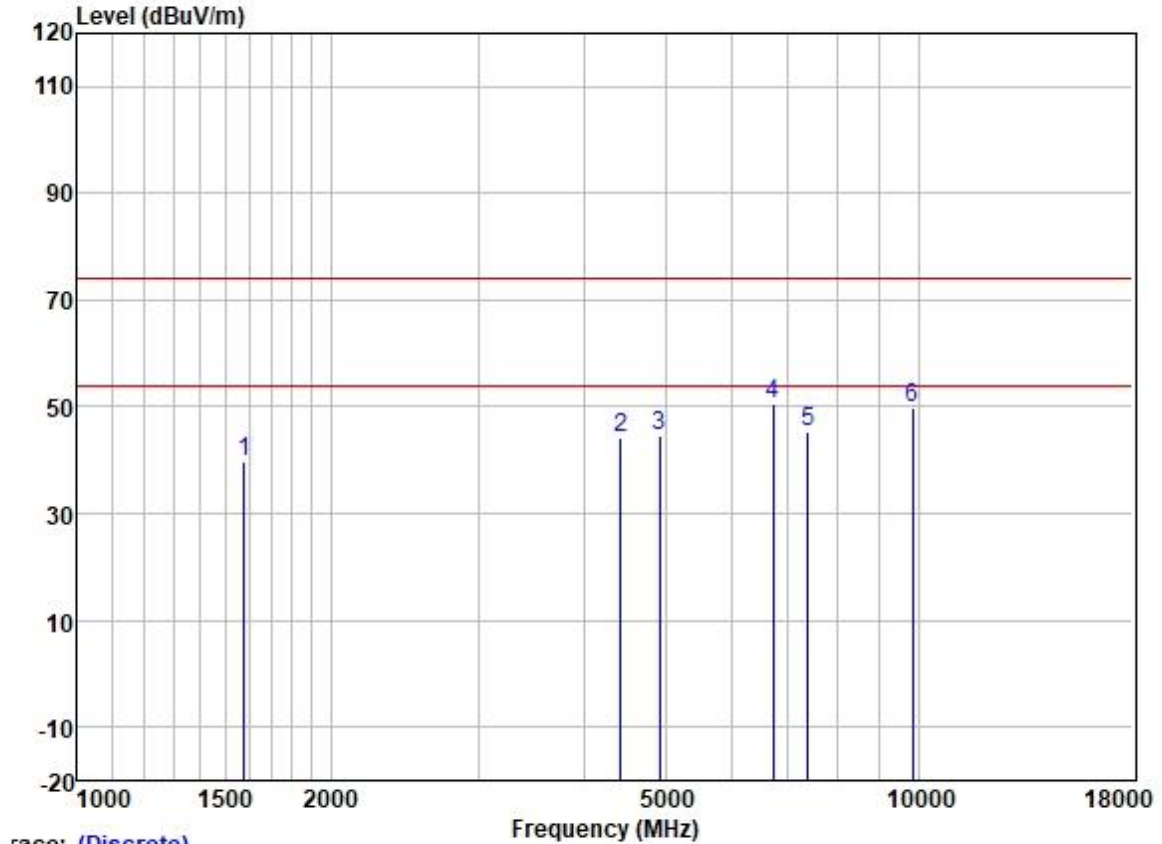
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1692.231	47.72	25.70	3.30	37.46	39.26	74.00	-34.74	VERTICAL peak
2	3924.135	46.18	29.72	5.02	36.71	44.21	74.00	-29.79	VERTICAL peak
3	4924.000	43.17	31.62	5.51	36.45	43.85	74.00	-30.15	VERTICAL peak
4	6795.879	45.17	34.66	6.34	36.48	49.69	74.00	-24.31	VERTICAL peak
5	7386.000	38.71	36.17	6.30	37.04	44.14	74.00	-29.86	VERTICAL peak
6	9848.000	40.62	38.58	7.06	36.82	49.44	74.00	-24.56	VERTICAL peak



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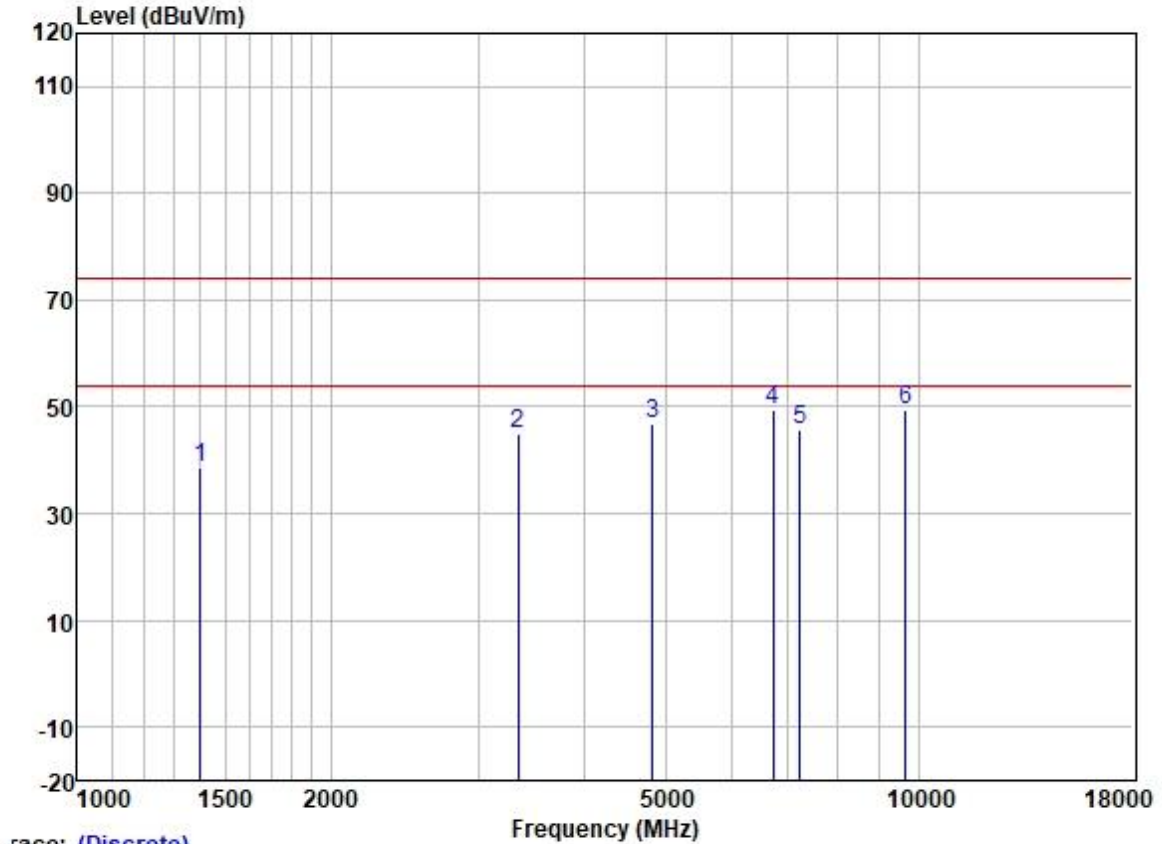
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1578.822	48.65	25.56	2.99	37.62	39.58	74.00	-34.42	HORIZONTAL	peak
2	4430.628	44.83	30.72	5.36	36.62	44.29	74.00	-29.71	HORIZONTAL	peak
3	4924.000	43.99	31.62	5.51	36.45	44.67	74.00	-29.33	HORIZONTAL	peak
4	6717.762	46.13	34.44	6.29	36.42	50.44	74.00	-23.56	HORIZONTAL	peak
5	7386.000	39.72	36.17	6.30	37.04	45.15	74.00	-28.85	HORIZONTAL	peak
6	9848.000	41.15	38.58	7.06	36.82	49.97	74.00	-24.03	HORIZONTAL	peak

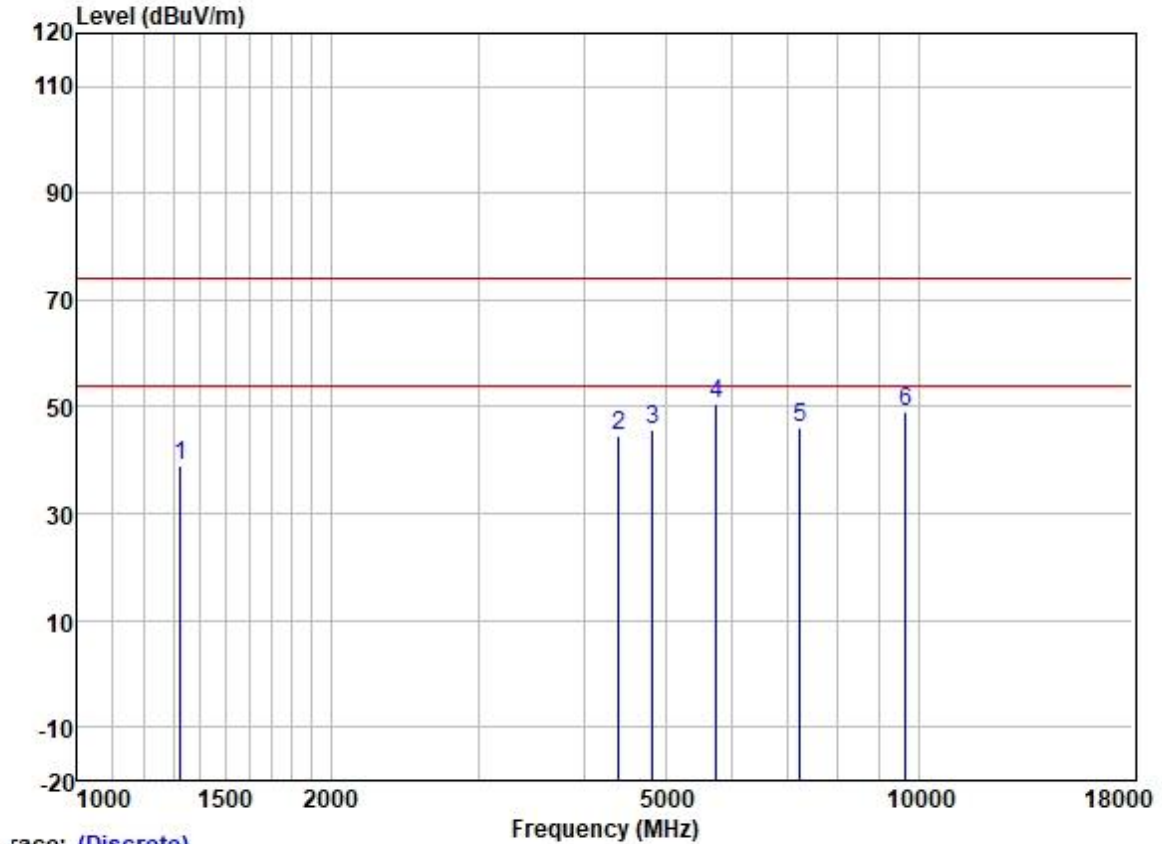
Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

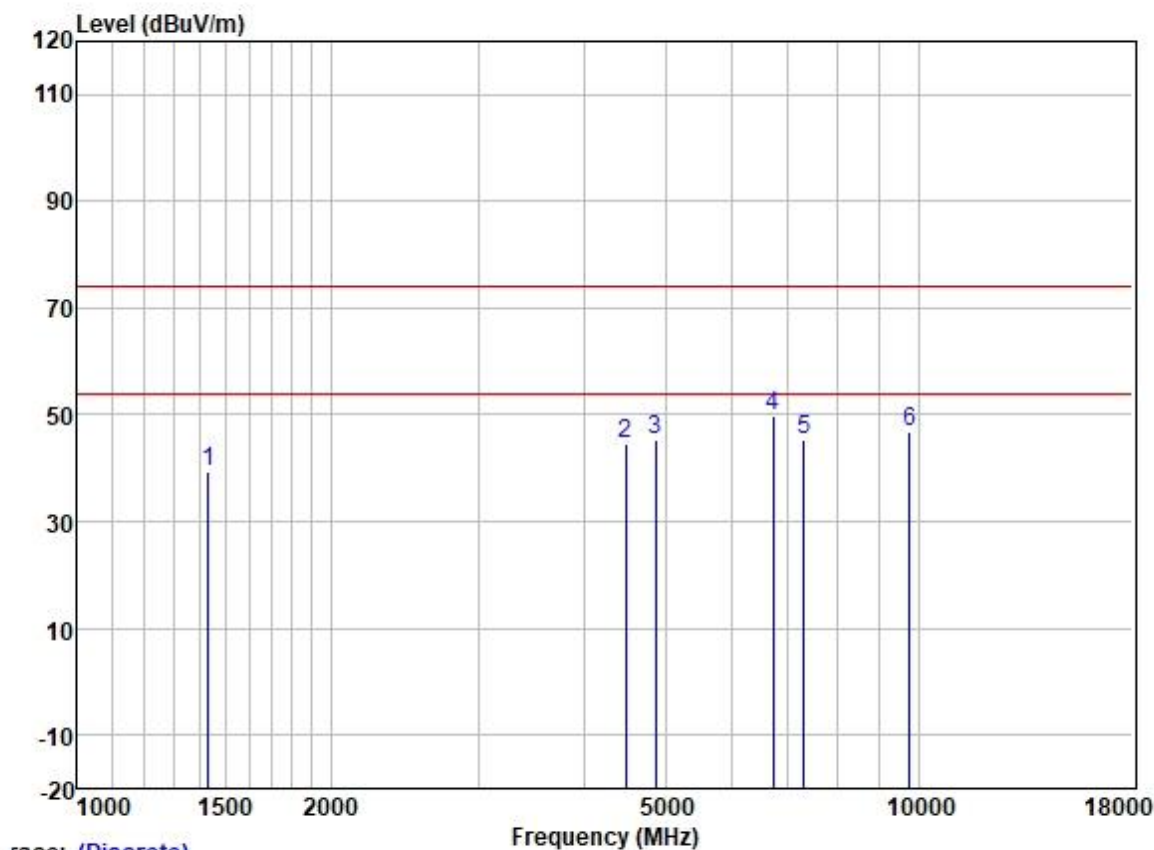
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1398.336	48.43	25.39	2.77	37.92	38.67	74.00	-35.33	VERTICAL peak
2	3337.710	48.70	28.79	4.25	36.81	44.93	74.00	-29.07	VERTICAL peak
3	4824.000	46.56	31.45	5.46	36.50	46.97	74.00	-27.03	VERTICAL peak
4	6717.762	45.02	34.44	6.29	36.42	49.33	74.00	-24.67	VERTICAL peak
5	7236.000	40.64	35.70	6.35	36.94	45.75	74.00	-28.25	VERTICAL peak
6	9648.000	39.84	38.40	7.89	36.85	49.28	74.00	-24.72	VERTICAL peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1327.446	49.01	25.27	2.72	38.02	38.98	74.00	-35.02	HORIZONTAL peak
2	4405.090	45.28	30.68	5.37	36.63	44.70	74.00	-29.30	HORIZONTAL peak
3	4824.000	45.46	31.45	5.46	36.50	45.87	74.00	-28.13	HORIZONTAL peak
4	5746.982	49.07	32.10	5.70	36.14	50.73	74.00	-23.27	HORIZONTAL peak
5	7236.000	41.08	35.70	6.35	36.94	46.19	74.00	-27.81	HORIZONTAL peak
6	9648.000	39.56	38.40	7.89	36.85	49.00	74.00	-25.00	HORIZONTAL peak

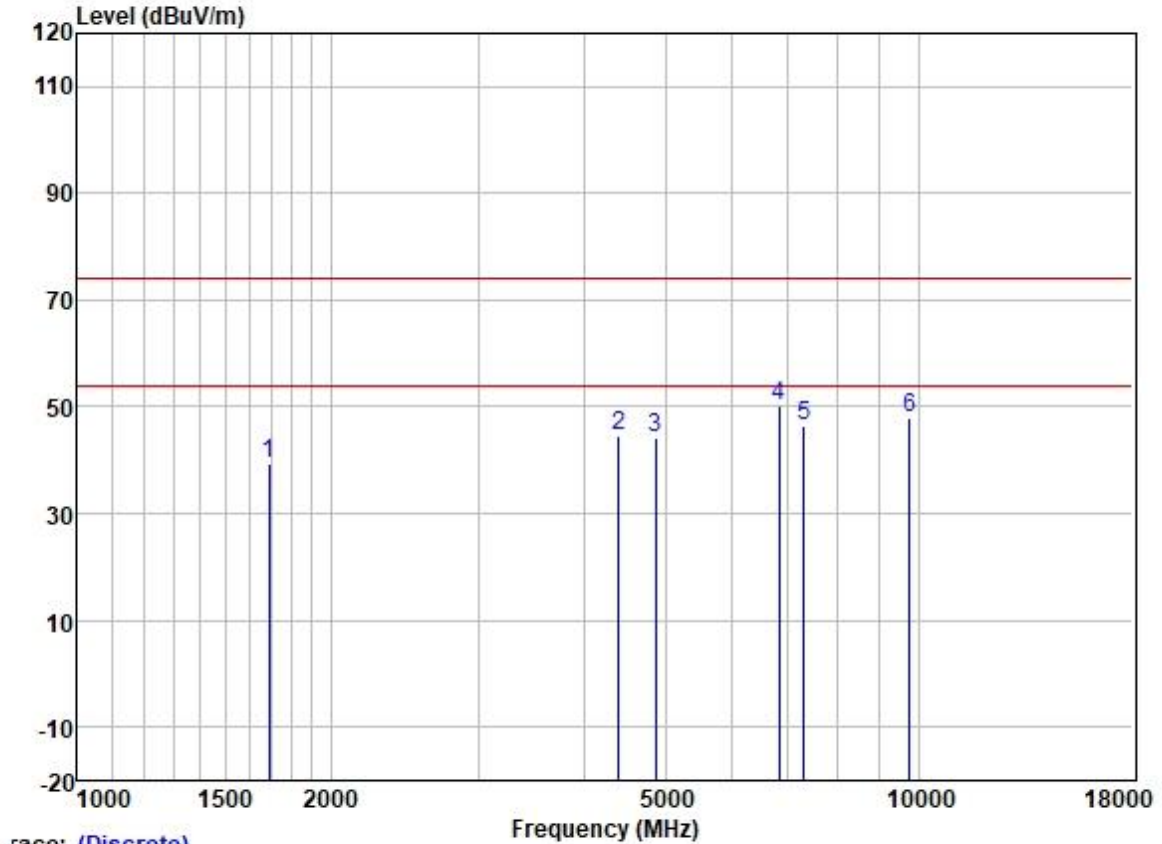
Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1431.047	49.11	25.43	2.80	37.88	39.46	74.00	-34.54	VERTICAL	peak
2	4482.150	44.99	30.78	5.34	36.61	44.50	74.00	-29.50	VERTICAL	peak
3	4874.000	44.73	31.54	5.49	36.48	45.28	74.00	-28.72	VERTICAL	peak
4	6717.762	45.38	34.44	6.29	36.42	49.69	74.00	-24.31	VERTICAL	peak
5	7311.000	40.07	35.93	6.32	36.99	45.33	74.00	-28.67	VERTICAL	peak
6	9748.000	37.82	38.50	7.43	36.83	46.92	74.00	-27.08	VERTICAL	peak

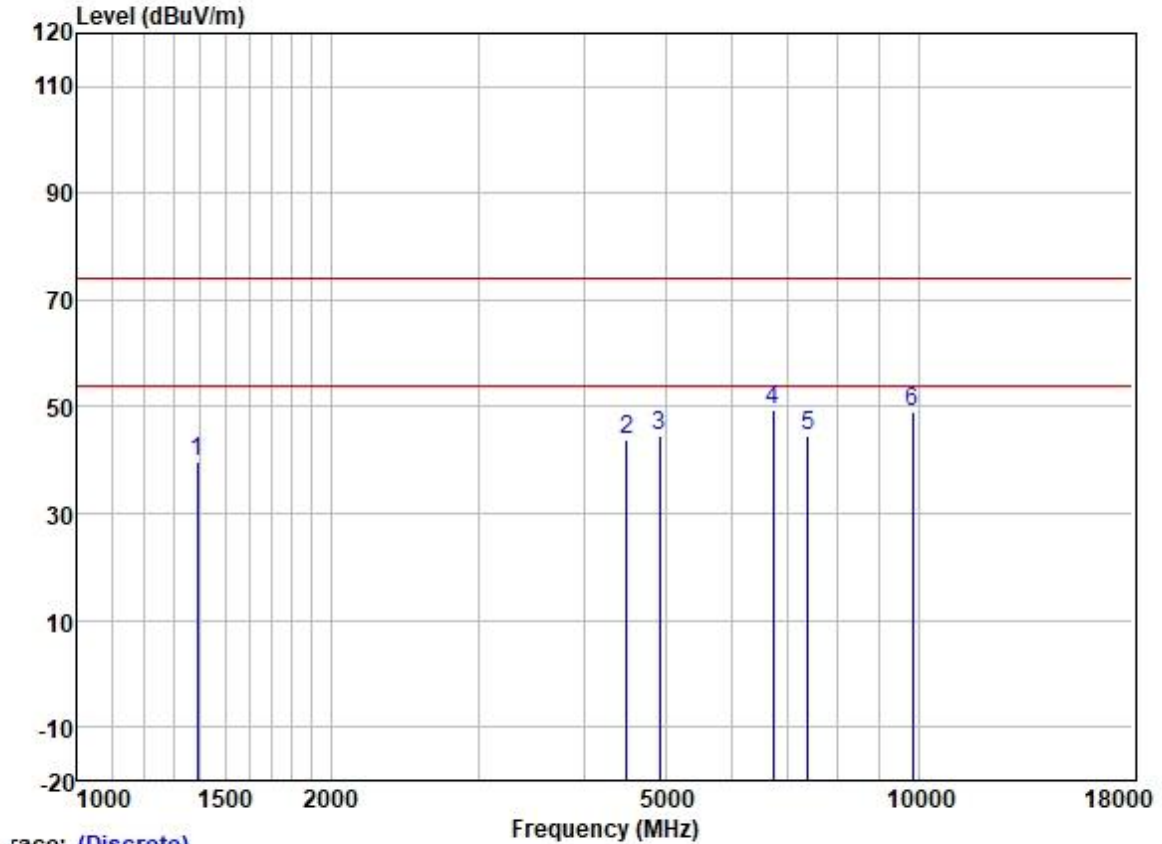
Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1692.231	47.74	25.70	3.30	37.46	39.28	74.00	-34.72	HORIZONTAL	peak
2	4405.090	45.21	30.68	5.37	36.63	44.63	74.00	-29.37	HORIZONTAL	peak
3	4874.000	43.78	31.54	5.49	36.48	44.33	74.00	-29.67	HORIZONTAL	peak
4	6835.278	45.67	34.74	6.36	36.50	50.27	74.00	-23.73	HORIZONTAL	peak
5	7311.000	41.28	35.93	6.32	36.99	46.54	74.00	-27.46	HORIZONTAL	peak
6	9748.000	38.93	38.50	7.43	36.83	48.03	74.00	-25.97	HORIZONTAL	peak

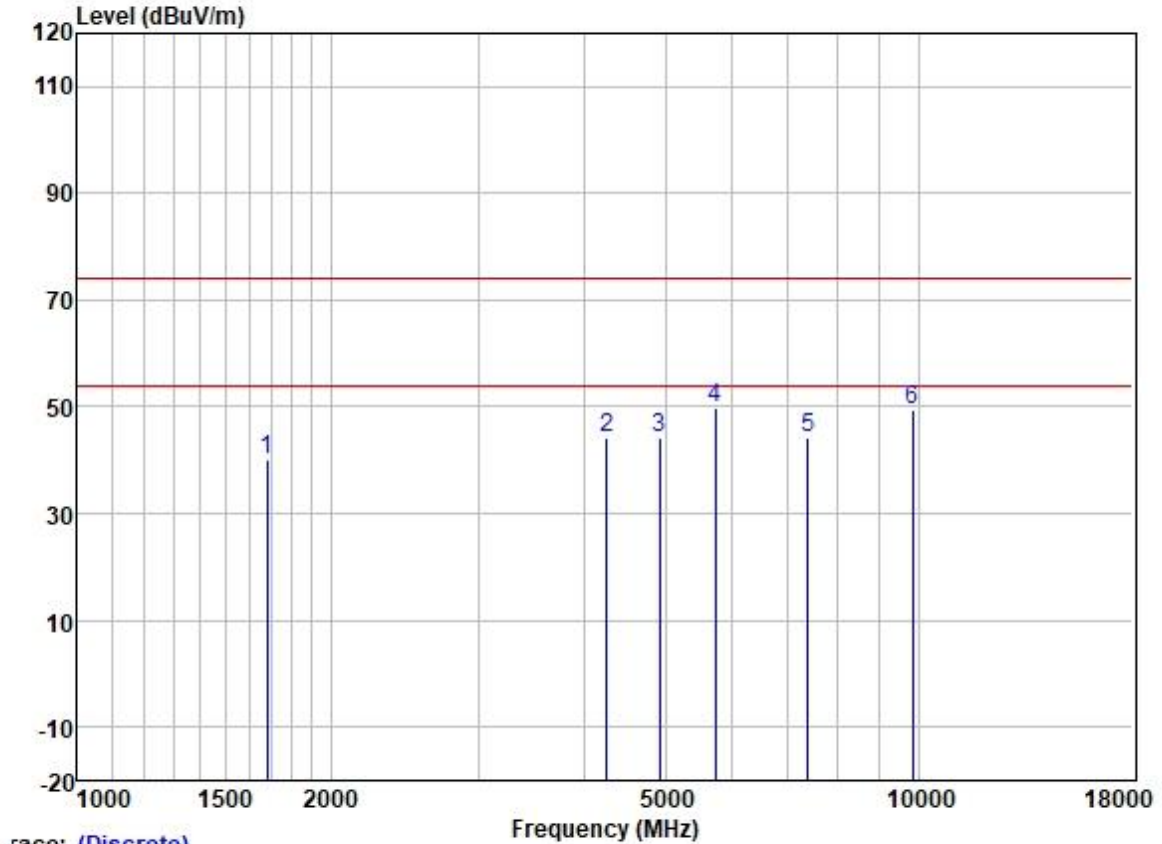
Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1390.276	49.40	25.38	2.77	37.92	39.63	74.00	-34.37	VERTICAL peak
2	4495.125	44.48	30.80	5.33	36.60	44.01	74.00	-29.99	VERTICAL peak
3	4924.000	43.89	31.62	5.51	36.45	44.57	74.00	-29.43	VERTICAL peak
4	6717.762	45.28	34.44	6.29	36.42	49.59	74.00	-24.41	VERTICAL peak
5	7386.000	39.00	36.17	6.30	37.04	44.43	74.00	-29.57	VERTICAL peak
6	9848.000	40.32	38.58	7.06	36.82	49.14	74.00	-24.86	VERTICAL peak

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1682.477	48.69	25.68	3.25	37.48	40.14	74.00	-33.86	HORIZONTAL	peak
2	4254.921	45.31	30.34	5.24	36.66	44.23	74.00	-29.77	HORIZONTAL	peak
3	4924.000	43.67	31.62	5.51	36.45	44.35	74.00	-29.65	HORIZONTAL	peak
4	5730.396	48.31	32.07	5.71	36.15	49.94	74.00	-24.06	HORIZONTAL	peak
5	7386.000	38.92	36.17	6.30	37.04	44.35	74.00	-29.65	HORIZONTAL	peak
6	9848.000	40.75	38.58	7.06	36.82	49.57	74.00	-24.43	HORIZONTAL	peak

## 8 Test Setup Photo

Refer to Setup Photos for GZCR220600074602

## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2206000746AT