



TEST REPORT

Application No.: GZCR2209001154AT
Applicant: YEALINK (XIAMEN) NETWORK TECHNOLOGY CO., LTD.
Address of Applicant: No.666 Hu'an Rd, Huli District Xiamen City, Fujian, P.R. China
Manufacturer: YEALINK (XIAMEN) NETWORK TECHNOLOGY CO., LTD.
Address of Manufacturer: No.666 Hu'an Rd, Huli District Xiamen City, Fujian, P.R. China
Equipment Under Test (EUT):
EUT Name: HD Wireless Conference Phone
Model No.: CP935W
Trade Mark: YEALINK
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2022-09-07
Date of Test: 2022-09-24 to 2022-11-08
Date of Issue: 2023-01-09

| | |
|---------------------|-------|
| Test Result: | Pass* |
|---------------------|-------|

* In the configuration tested, the EUT complied with the standards specified above.

Ricky Liu
Manager



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| Revision Record | | | |
|-----------------|------------|------------|----------|
| Version | Report No. | Date | Remark |
| 01 | | 2023-01-09 | Original |
| | | | |
| | | | |

| Authorized for issue by | | | |
|-------------------------|--|---|--|
| | |  | |
| | | Curry Wu/Project Engineer | |
| | |  | |
| Ricky Liu/Reviewer | | | |

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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 Emissions at AC Power Line (150kHz-30MHz) | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 | 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.

Remark:

The modular approval by TCB, FCC ID: T2C-YL430132, Granted on 12/10/2021.

The host approval by TCB, FCC ID: T2C- CP935W, Granted on 01/05/2023.

The module installed into host platform mentioned above is electronically and mechanically identical to the original certified module. The Original FCC testing on module under FCC ID: T2C-YL430132 was performed with an antenna which was connected to the module in an open environment. The current host platform under application uses a new antenna of the different type, higher gain and is installed inside the host platform enclosure.

Therefore in this report Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Emissions which fall in the restricted bands and Radiated Spurious Emissions were fully retested on model and shown the data in this report.

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4 General Information

4.1 Details of E.U.T.

| | |
|----------------------|---|
| Power supply: | Rechargeable battery DC3.7V, 7800mAh ,charged by adapter |
| | Powered by adapter |
| | Adapter No.: YLPS121250C1-3C |
| | Input: AC100-240V; 50/60Hz; 0.5A |
| | Output: DC12.0V 1.25A |
| Cable(s): | DC cable: 250cm unshielded |
| | DC cable: 85cm unshielded |
| | USB Type C cable: 85cm unshielded |
| 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 Type: | FPC Antenna |
| Antenna Gain: | 5.08dBi declared by applicant |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|------------|
| -- | -- | -- | -- |

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|---|---|
| Conducted Emissions at AC Power Line (150kHz-30MHz) | ±2.76dB |
| Radiated Emissions which fall in the restricted bands | ±5.00dB (30MHz-1GHz; 3m); ± 5.12dB (1GHz-6GHz); ± 5.38dB (6GHz-18GHz); ± 5.61dB (18GHz-40GHz) |
| Radiated Spurious Emissions (Below 1GHz) | ±5.00dB (30MHz-1GHz; 3m); ±4.38dB (30MHz-1GHz; 10m); |
| Radiated Spurious Emissions (Above 1GHz) | ± 5.12dB (1GHz-6GHz); ± 5.38dB (6GHz-18GHz); ± 5.61dB (18GHz-40GHz) |

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4.4 Test Location

All tests were performed at:

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

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

No tests were sub-contracted.

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.

- **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.

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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

| Conducted Emissions at AC Power Line (150kHz-30MHz) | | | | | |
|---|-------------------|----------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Shielding Room | ChangZhou ZhongYu | 8m x 3m x 3.8m | EMC0306 | N/A | N/A |
| Two-Line V-Network | Rohde & Schwarz | ENV216 | EMC0118 | 2021-12-23 | 2022-12-22 |
| Two-Line V-Network-GZ | Rohde & Schwarz | ENV216 | EMC2135 | 2022-09-09 | 2023-09-08 |
| Coaxial Cable | HangTianXing | 2m | EMC0107 | 2022-08-24 | 2023-08-23 |
| Test Software E3c | Audix | Ver. 5.4.1221b | GZE100-62 | N/A | N/A |
| EMI Test Receiver(9kHz-3.6GHz) | Rohde & Schwarz | ESR3 | EMC2221 | 2022-05-20 | 2023-05-19 |

| Radiated Emissions which fall in the restricted bands | | | | | |
|---|-----------------------------|---------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EMI Test Receiver(20Hz-26.5GHz) | Rohde & Schwarz | ESIB26 | EMC0522 | 2021-12-17 | 2022-12-16 |
| Chamber cable(Above 1GHz) | Scoflex | KMKM-8.0m | EMC0545 | 2022-08-24 | 2024-08-23 |
| Horn Antenna(1GHz-18GHz) | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2022-09-21 | 2025-09-20 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2021-12-17 | 2022-12-16 |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2021-12-17 | 2022-12-16 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2020-12-20 | 2023-12-19 |
| MXE EMI Receiver(10Hz-8.4GHz) | Keysight | N9038A | EMC2139 | 2021-11-01 | 2022-10-31 |
| | | | | 2022-10-21 | 2023-10-20 |
| EXA Signal Analyzer(10Hz-44GHz) | Keysight | N9010A | EMC2138 | 2022-09-08 | 2023-09-07 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |
| Notch Filter (5150-5880) | Mico-Tronics | BRM50716 | EMC2168 | 2022-07-29 | 2023-07-28 |
| Horn Antenna(14-40GHz) | SCHWARZBECK | BBHA 9170 | EMC2041 | 2020-06-28 | 2023-06-27 |
| Microwave Broadband Preamplifier (18-40GHz) | SCHWARZBECK | BBV 9721 | EMC2172 | 2022-08-24 | 2023-08-23 |

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Radiated Spurious Emissions (Below 1GHz)

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|--|-----------------------------|---------------|--------------|--------------------------|--------------------------|
| EMI Test Receiver(10Hz-26.5GHz) | Rohde & Schwarz | ESIB26 | EMC0522 | 2021-12-17 | 2022-12-16 |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2022-08-24 | 2023-08-23 |
| Trilog Broadband Antenna(25MHz-1GHz)-Lab | SCHWARZBECK MESS-ELEKTRONIK | VULB 9168 | EMC2174 | 2022-06-19 | 2025-06-18 |
| 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 |
| High Pass Filter (915MHz) | FSY MICROWAVE | HM1465-9SS | EMC2079 | 2021-12-17 | 2022-12-16 |
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2019-10-20 2022-10-16 | 2022-10-19 2025-10-15 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |
| EMI Test Receiver(1Hz-8GHz) | Rohde & Schwarz | ESW8 | EMC2220 | 2022-05-20 | 2023-05-19 |

Radiated Spurious Emissions (Above 1GHz)

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|---------------------------------|-----------------------------|---------------|--------------|--------------------------|--------------------------|
| EMI Test Receiver(20Hz-26.5GHz) | Rohde & Schwarz | ESIB26 | EMC0522 | 2021-12-17 | 2022-12-16 |
| Chamber cable(Above 1GHz) | Scoflex | KMKG-8.0m | EMC0545 | 2022-08-24 | 2024-08-23 |
| Horn Antenna(1GHz-18GHz) | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2022-09-21 | 2025-09-20 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2021-12-17 | 2022-12-16 |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2021-12-17 | 2022-12-16 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2020-12-20 | 2023-12-19 |
| MXE EMI Receiver(10Hz-8.4GHz) | Keysight | N9038A | EMC2139 | 2021-11-01 2022-10-21 | 2022-10-31 2023-10-20 |
| EXA Signal Analyzer(10Hz-44GHz) | Keysight | N9010A | EMC2138 | 2022-09-08 | 2023-09-07 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |
| Notch Filter (5150-5880) | Micro-Tronics | BRM50716 | EMC2168 | 2022-07-29 | 2023-07-28 |
| Horn Antenna(14-40GHz) | SCHWARZBECK | BBHA 9170 | EMC2041 | 2020-06-28 | 2023-06-27 |

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| | | | | | |
|---|-------------|----------|---------|------------|------------|
| Microwave Broadband Preamplifier (18-40GHz) | SCHWARZBECK | BBV 9721 | EMC2172 | 2022-08-24 | 2023-08-23 |
|---|-------------|----------|---------|------------|------------|

General used equipment

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|-----------|--------------|----------|--------------|------------|--------------|
| DMM | Fluke | 73 | EMC0006 | 2022-06-24 | 2023-06-23 |
| DMM | Fluke | 73 | EMC0007 | 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

15.203 Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of 15.211, 15.213, 15.217, 15.219, 15.221, or 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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 5.08dBi.

Antenna location: Refer to internal photo.

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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

| Frequency of emission(MHz) | Conducted limit(dB μ V) | |
|----------------------------|-----------------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.2 °C Humidity: 51.5 % RH Atmospheric Pressure: 1015 mbar

7.1.2 Test Mode Description

| Pre-scan / Mode Final test | Mode Code | Description |
|-------------------------------|--------------|--|
| Final test | 05 | Charge + TX mode_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report. |

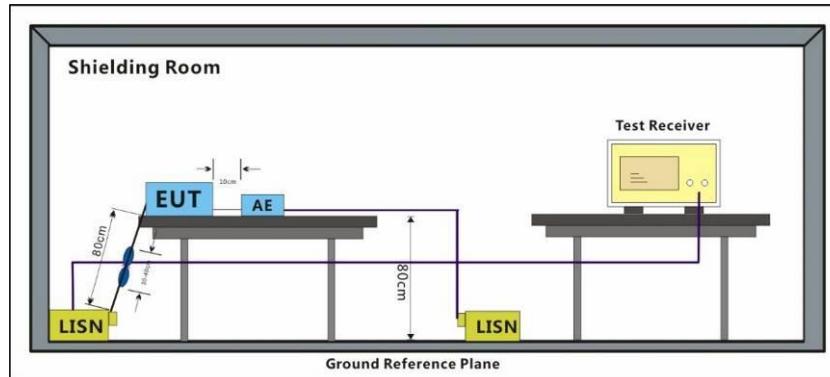
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50 μ H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark:

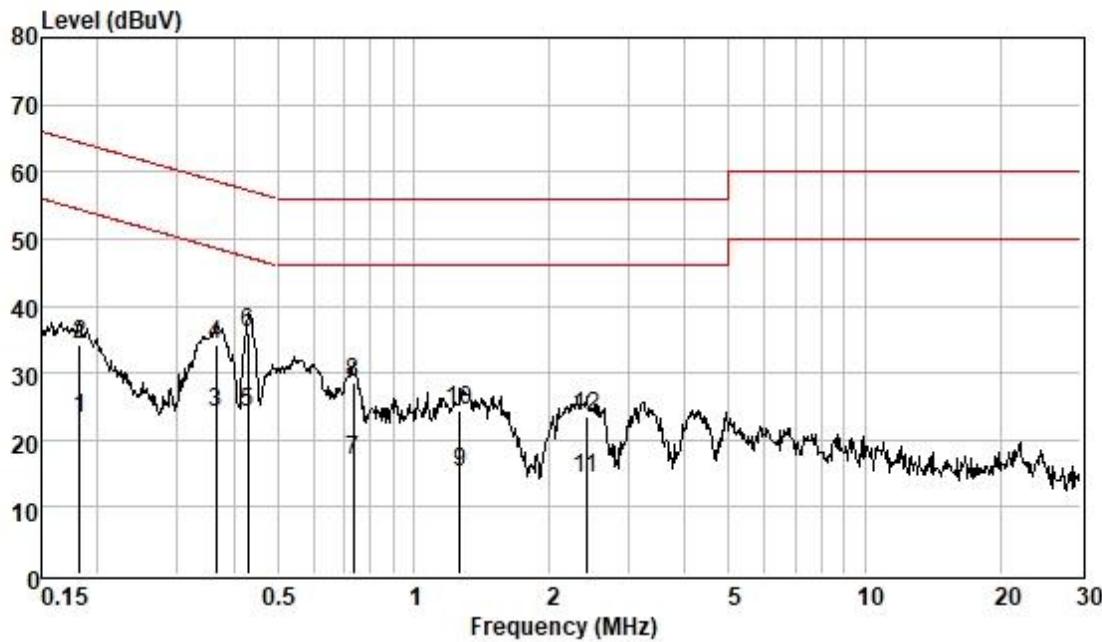
- 1) Level=Read Level+ Cable Loss+ LISN Factor
- 2) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

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Test Mode: 05; Line: Live line



Pol :LINE

Mode :

Model :

| | Frequenc | Read Level | Cable Loss | LISN Factor | Measured Level | Limit Line | Over Limit | Remark |
|----|----------|------------|------------|-------------|----------------|------------|------------|---------|
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.182 | 13.66 | 0.06 | 9.55 | 23.27 | 54.37 | -31.10 | Average |
| 2 | 0.182 | 24.73 | 0.06 | 9.55 | 34.34 | 64.37 | -30.03 | QP |
| 3 | 0.365 | 14.36 | 0.06 | 9.58 | 24.00 | 48.61 | -24.61 | Average |
| 4 | 0.365 | 24.46 | 0.06 | 9.58 | 34.10 | 58.61 | -24.51 | QP |
| 5 | 0.431 | 14.43 | 0.06 | 9.58 | 24.07 | 47.24 | -23.17 | Average |
| 6 | 0.431 | 26.28 | 0.06 | 9.58 | 35.92 | 57.24 | -21.32 | QP |
| 7 | 0.735 | 7.25 | 0.07 | 9.59 | 16.91 | 46.00 | -29.09 | Average |
| 8 | 0.735 | 18.84 | 0.07 | 9.59 | 28.50 | 56.00 | -27.50 | QP |
| 9 | 1.269 | 5.36 | 0.09 | 9.60 | 15.05 | 46.00 | -30.95 | Average |
| 10 | 1.269 | 14.84 | 0.09 | 9.60 | 24.53 | 56.00 | -31.47 | QP |
| 11 | 2.409 | 4.54 | 0.13 | 9.60 | 14.27 | 46.00 | -31.73 | Average |
| 12 | 2.409 | 13.69 | 0.13 | 9.60 | 23.42 | 56.00 | -32.58 | QP |

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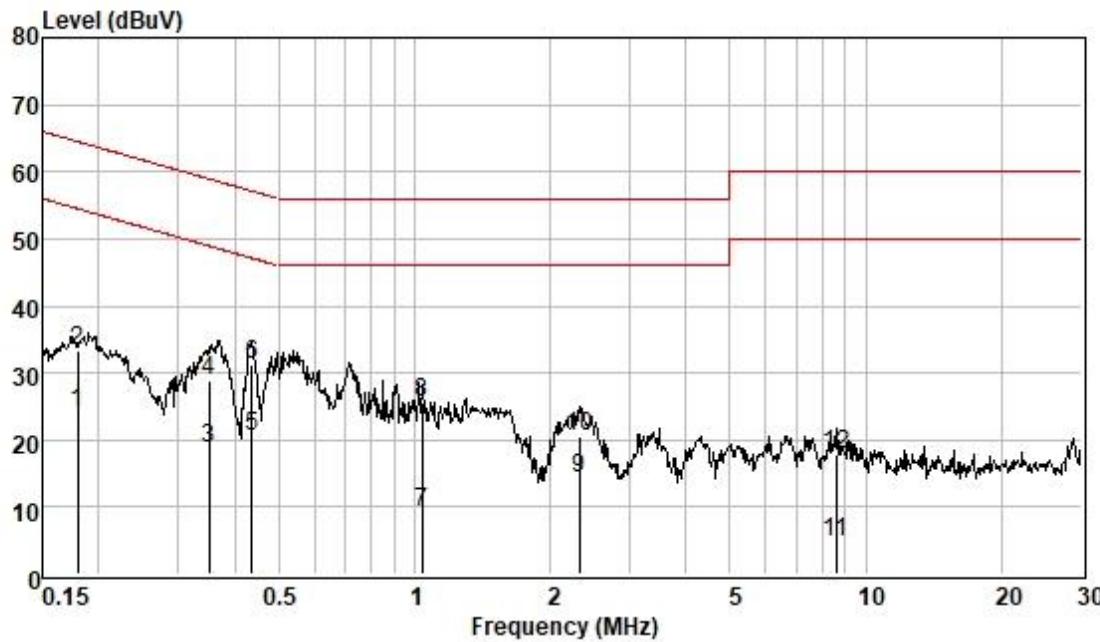
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Test Mode: 05; Line: Neutral Line



Pol :NEUTRAL

Mode :

Model :

| | Frequenc | Read Level | Cable Loss | LISN Factor | Measured Level | Limit Line | Over Limit | Remark |
|----|----------|------------|------------|-------------|----------------|------------|------------|---------|
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.180 | 14.63 | 0.06 | 9.54 | 24.23 | 54.50 | -30.27 | Average |
| 2 | 0.180 | 23.81 | 0.06 | 9.54 | 33.41 | 64.50 | -31.09 | QP |
| 3 | 0.350 | 9.12 | 0.06 | 9.57 | 18.75 | 48.96 | -30.21 | Average |
| 4 | 0.350 | 19.30 | 0.06 | 9.57 | 28.93 | 58.96 | -30.03 | QP |
| 5 | 0.437 | 10.99 | 0.06 | 9.58 | 20.63 | 47.11 | -26.48 | Average |
| 6 | 0.437 | 21.63 | 0.06 | 9.58 | 31.27 | 57.11 | -25.84 | QP |
| 7 | 1.037 | -0.38 | 0.07 | 9.59 | 9.28 | 46.00 | -36.72 | Average |
| 8 | 1.037 | 15.82 | 0.07 | 9.59 | 25.48 | 56.00 | -30.52 | QP |
| 9 | 2.321 | 4.56 | 0.13 | 9.60 | 14.29 | 46.00 | -31.71 | Average |
| 10 | 2.321 | 10.71 | 0.13 | 9.60 | 20.44 | 56.00 | -35.56 | QP |
| 11 | 8.592 | -5.19 | 0.21 | 9.77 | 4.79 | 50.00 | -45.21 | Average |
| 12 | 8.592 | 7.97 | 0.21 | 9.77 | 17.95 | 60.00 | -42.05 | QP |

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7.2 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 49.5 % RH Atmospheric Pressure: 1015 mbar

7.2.2 Test Mode Description

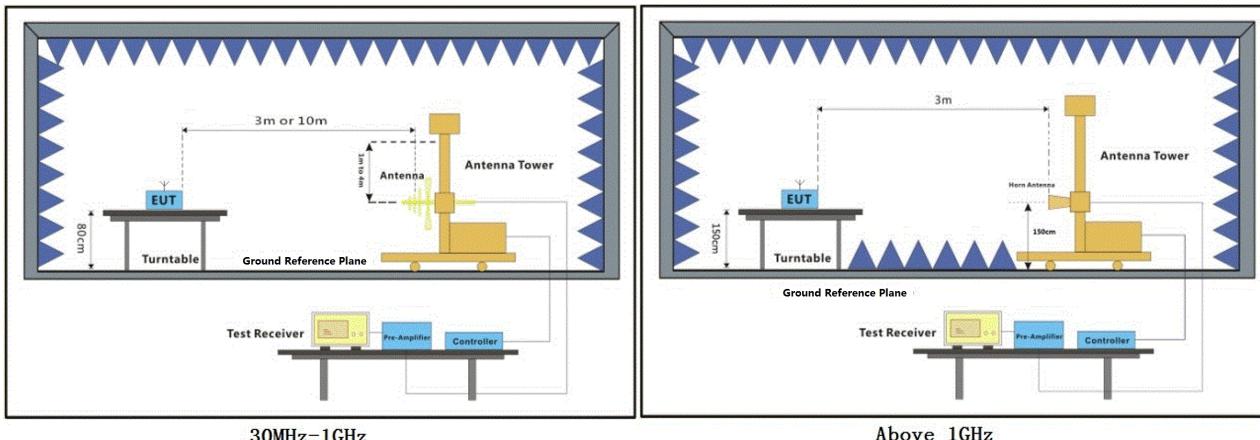
| Pre-scan / Mode Final test | Mode Code | Description |
|-------------------------------|--------------|--|
| Pre-scan | 04 | TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is 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). Only the data of worst case is recorded in the report. |
| Final test | 05 | Charge + TX mode_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report. |

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7.2.3 Test Setup Diagram



7.2.4 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. 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.
- c. 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.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the Highest channel.
- i. 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.
- j. 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.

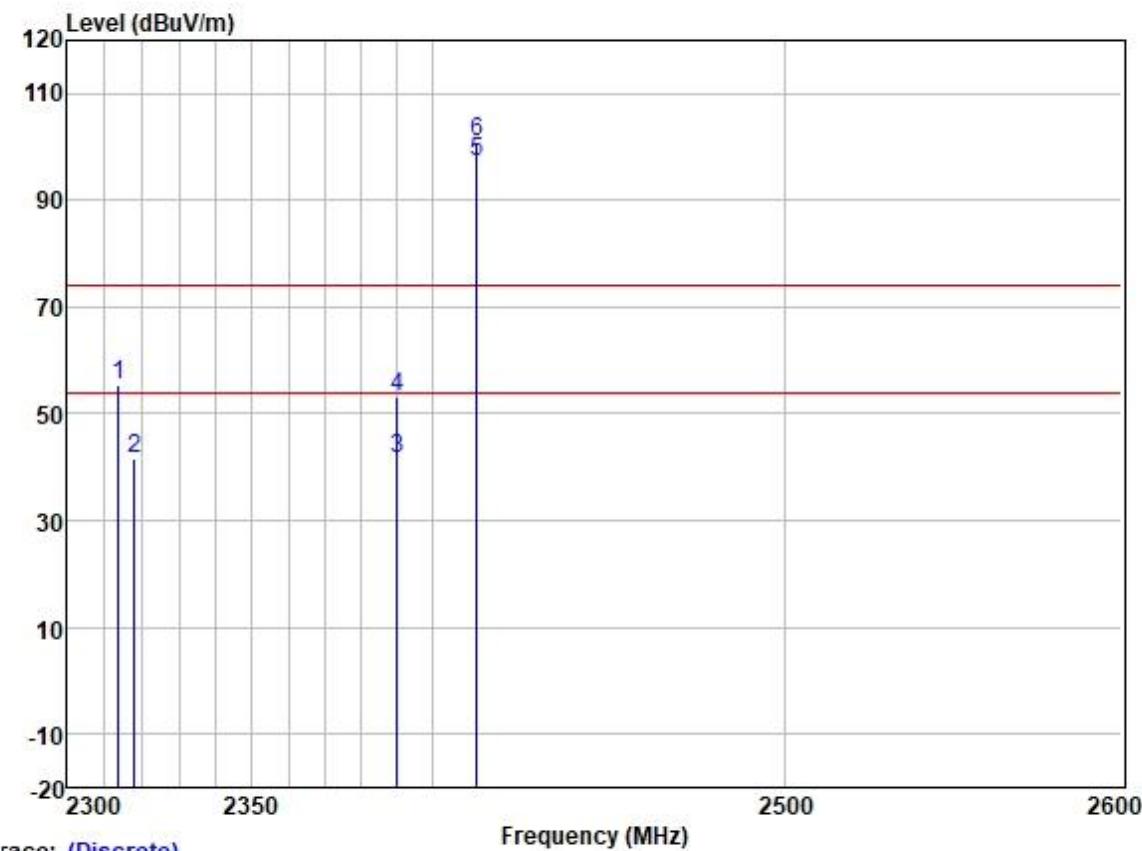
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



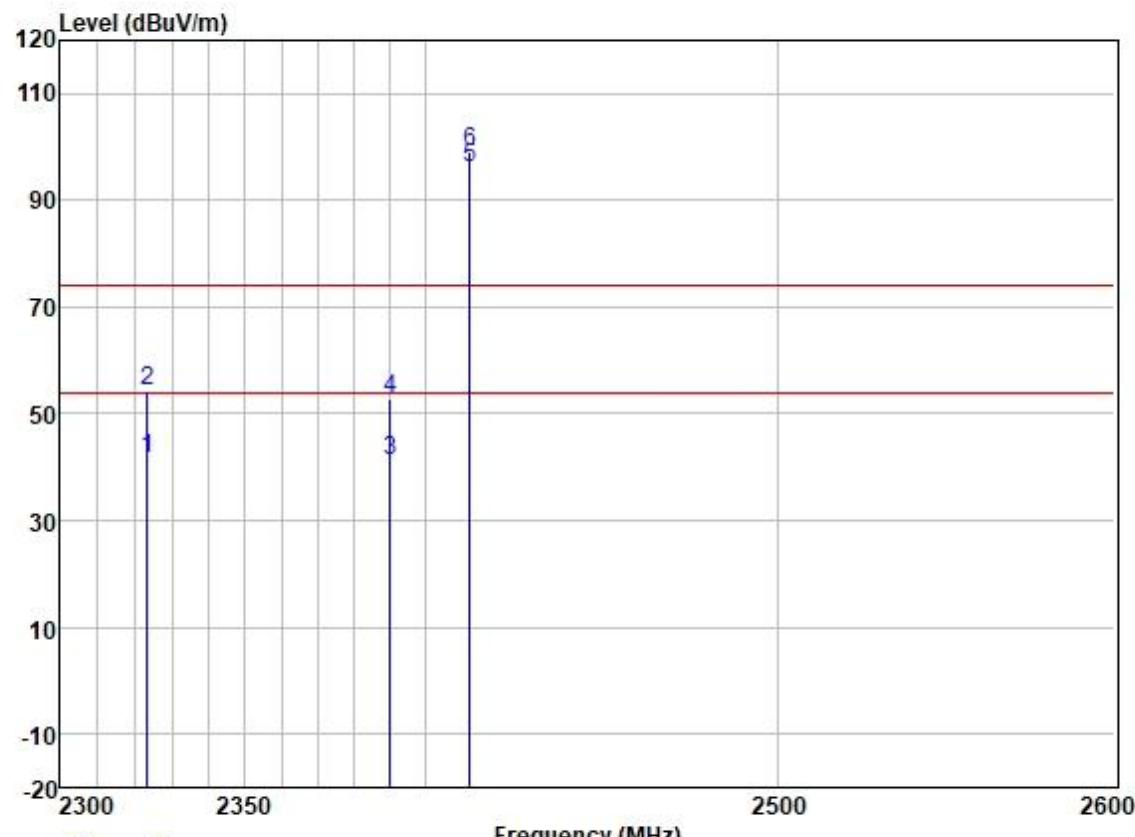
| Freq | ReadAntenna | | Cable | | Preamp Loss Factor | dB | dB | Limit Level | dBuV/m | dBuV/m | dB | Over Line | Limit Pol/Phase | Remark |
|------|-------------|--------|-------|------|-----------------------|--------|-------|----------------|------------|---------|----|--------------|--------------------|--------|
| | MHz | dBuV | dB/m | dB | | | | | | | | | | |
| 1 | 2313.629 | 62.44 | 27.15 | 3.32 | 37.62 | 55.29 | 74.00 | -18.71 | HORIZONTAL | Peak | | | | |
| 2 | 2317.969 | 48.60 | 27.17 | 3.33 | 37.62 | 41.48 | 54.00 | -12.52 | HORIZONTAL | Average | | | | |
| 3 | 2390.000 | 48.24 | 27.33 | 3.48 | 37.59 | 41.46 | 54.00 | -12.54 | HORIZONTAL | Average | | | | |
| 4 | 2390.000 | 59.91 | 27.33 | 3.48 | 37.59 | 53.13 | 74.00 | -20.87 | HORIZONTAL | Peak | | | | |
| 5 * | 2412.000 | 103.93 | 27.38 | 3.47 | 37.59 | 97.19 | 54.00 | 43.19 | HORIZONTAL | Average | | | | |
| 6 * | 2412.000 | 107.53 | 27.38 | 3.47 | 37.59 | 100.79 | 74.00 | 26.79 | HORIZONTAL | Peak | | | | |

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Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



| Freq | ReadAntenna | | Cable | | Preamp | | Limit Line | Over Limit | Pol/Phase | Remark |
|------|-------------|--------|--------------|------|--------|--------|------------|------------|-----------|---------|
| | MHz | dBuV | Level Factor | Loss | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 2323.493 | 48.56 | 27.19 | 3.34 | 37.62 | 41.47 | 54.00 | -12.53 | VERTICAL | Average |
| 2 | 2323.493 | 61.31 | 27.19 | 3.34 | 37.62 | 54.22 | 74.00 | -19.78 | VERTICAL | Peak |
| 3 | 2390.000 | 47.99 | 27.33 | 3.48 | 37.59 | 41.21 | 54.00 | -12.79 | VERTICAL | Average |
| 4 | 2390.000 | 59.67 | 27.33 | 3.48 | 37.59 | 52.89 | 74.00 | -21.11 | VERTICAL | Peak |
| 5 * | 2412.000 | 102.94 | 27.38 | 3.47 | 37.59 | 96.20 | 54.00 | 42.20 | VERTICAL | Average |
| 6 * | 2412.000 | 105.66 | 27.38 | 3.47 | 37.59 | 98.92 | 74.00 | 24.92 | VERTICAL | Peak |

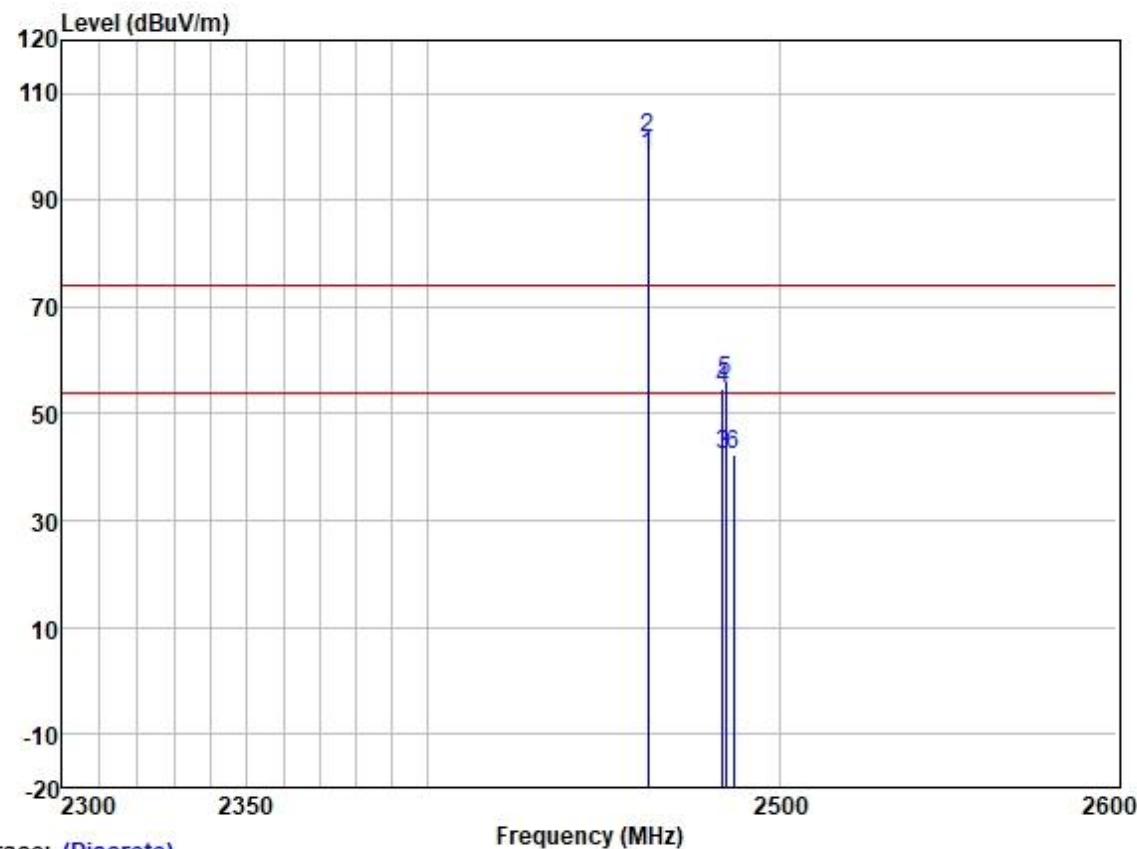
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



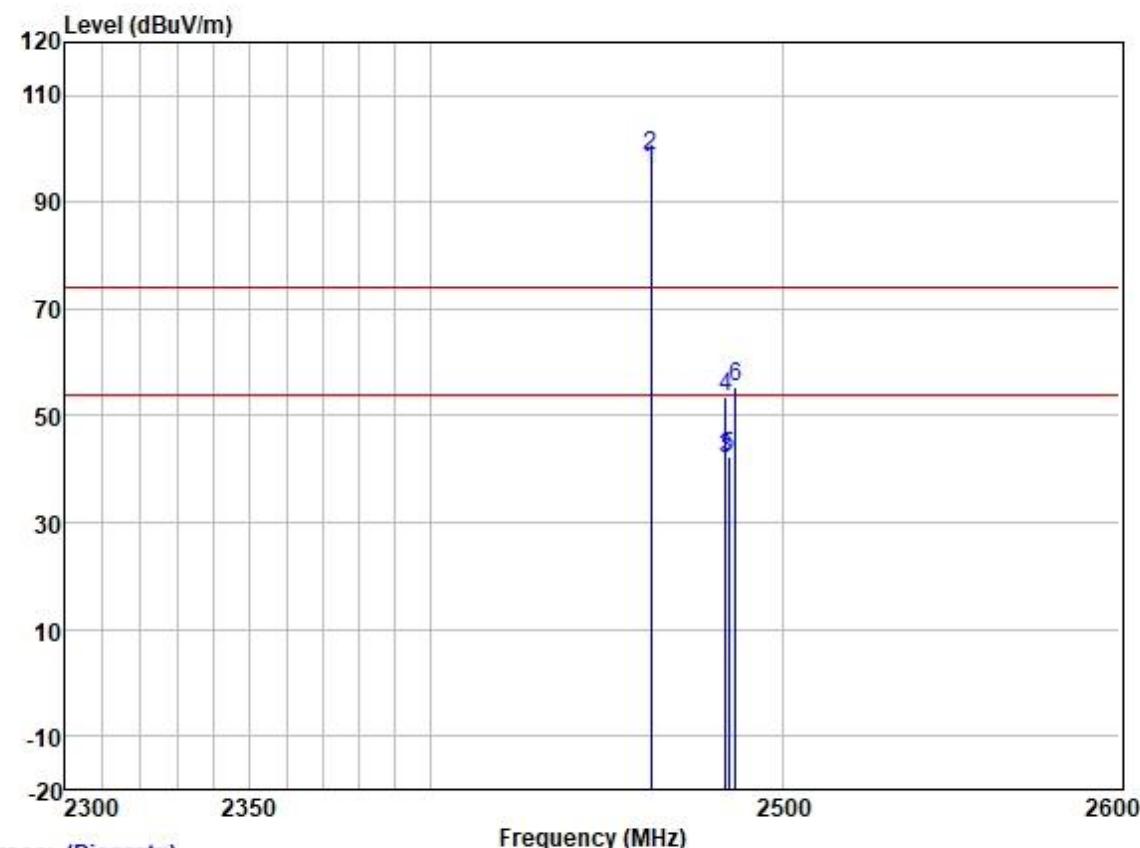
| Freq | ReadAntenna | | Cable | | Preamp Loss | Factor | Limit Level | Line | Over Limit | Pol/Phase | Remark |
|--------------|-------------|-------|-------|-------|----------------|--------|----------------|------------|---------------|-----------|--------|
| | MHz | dBuV | dB/m | dB | | | | | | | |
| 1 * 2462.000 | 104.93 | 27.45 | 3.50 | 37.58 | 98.30 | 54.00 | 44.30 | HORIZONTAL | Average | | |
| 2 * 2462.000 | 108.49 | 27.45 | 3.50 | 37.58 | 101.86 | 74.00 | 27.86 | HORIZONTAL | Peak | | |
| 3 2483.500 | 48.84 | 27.48 | 3.53 | 37.57 | 42.28 | 54.00 | -11.72 | HORIZONTAL | Average | | |
| 4 2483.500 | 61.15 | 27.48 | 3.53 | 37.57 | 54.59 | 74.00 | -19.41 | HORIZONTAL | Peak | | |
| 5 2484.191 | 62.67 | 27.48 | 3.53 | 37.57 | 56.11 | 74.00 | -17.89 | HORIZONTAL | Peak | | |
| 6 2486.651 | 48.74 | 27.48 | 3.53 | 37.57 | 42.18 | 54.00 | -11.82 | HORIZONTAL | Average | | |

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Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



| Freq | ReadAntenna | | Cable | | Preamp | | Limit Line | Over Limit | Pol/Phase | Remark |
|--------------|-------------|--------|-------|--------|--------|--------|------------|------------|-----------|---------|
| | Level | Factor | Loss | Factor | Level | dBuV/m | | | | |
| MHz | dBuV | dB/m | dB | dB | Level | dBuV/m | dBuV/m | dB | | |
| 1 * 2462.000 | 102.68 | 27.45 | 3.50 | 37.58 | 96.05 | 54.00 | 54.00 | 42.05 | VERTICAL | Average |
| 2 * 2462.000 | 105.47 | 27.45 | 3.50 | 37.58 | 98.84 | 74.00 | 74.00 | 24.84 | VERTICAL | Peak |
| 3 2483.500 | 48.64 | 27.48 | 3.53 | 37.57 | 42.08 | 54.00 | 54.00 | -11.92 | VERTICAL | Average |
| 4 2483.500 | 60.20 | 27.48 | 3.53 | 37.57 | 53.64 | 74.00 | 74.00 | -20.36 | VERTICAL | Peak |
| 5 2484.292 | 48.79 | 27.48 | 3.53 | 37.57 | 42.23 | 54.00 | 54.00 | -11.77 | VERTICAL | Average |
| 6 2486.199 | 61.99 | 27.48 | 3.53 | 37.57 | 55.43 | 74.00 | 74.00 | -18.57 | VERTICAL | Peak |

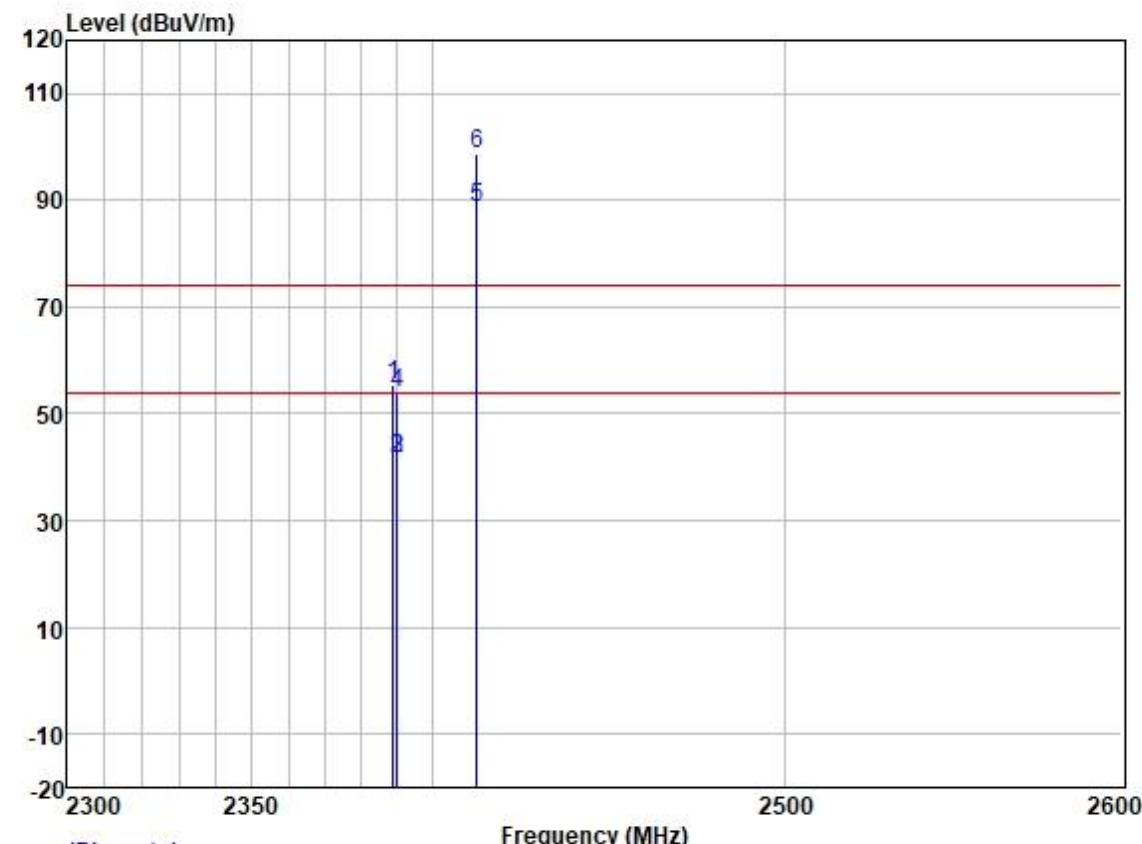
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

| Freq | ReadAntenna | Cable | Preamp | Limit | Over | Line | Limit | Pol/Phase | Remark |
|--------------|-------------|--------|--------|-------|--------|--------|--------|------------|---------|
| | Level | Factor | Loss | | | | | | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 2388.758 | 62.12 | 27.33 | 3.48 | 37.59 | 55.34 | 74.00 | -18.66 | HORIZONTAL | Peak |
| 2 2389.968 | 48.54 | 27.33 | 3.48 | 37.59 | 41.76 | 54.00 | -12.24 | HORIZONTAL | Average |
| 3 2390.000 | 48.54 | 27.33 | 3.48 | 37.59 | 41.76 | 54.00 | -12.24 | HORIZONTAL | Average |
| 4 2390.000 | 60.77 | 27.33 | 3.48 | 37.59 | 53.99 | 74.00 | -20.01 | HORIZONTAL | Peak |
| 5 * 2412.000 | 95.41 | 27.38 | 3.47 | 37.59 | 88.67 | 54.00 | 34.67 | HORIZONTAL | Average |
| 6 * 2412.000 | 105.52 | 27.38 | 3.47 | 37.59 | 98.78 | 74.00 | 24.78 | HORIZONTAL | Peak |

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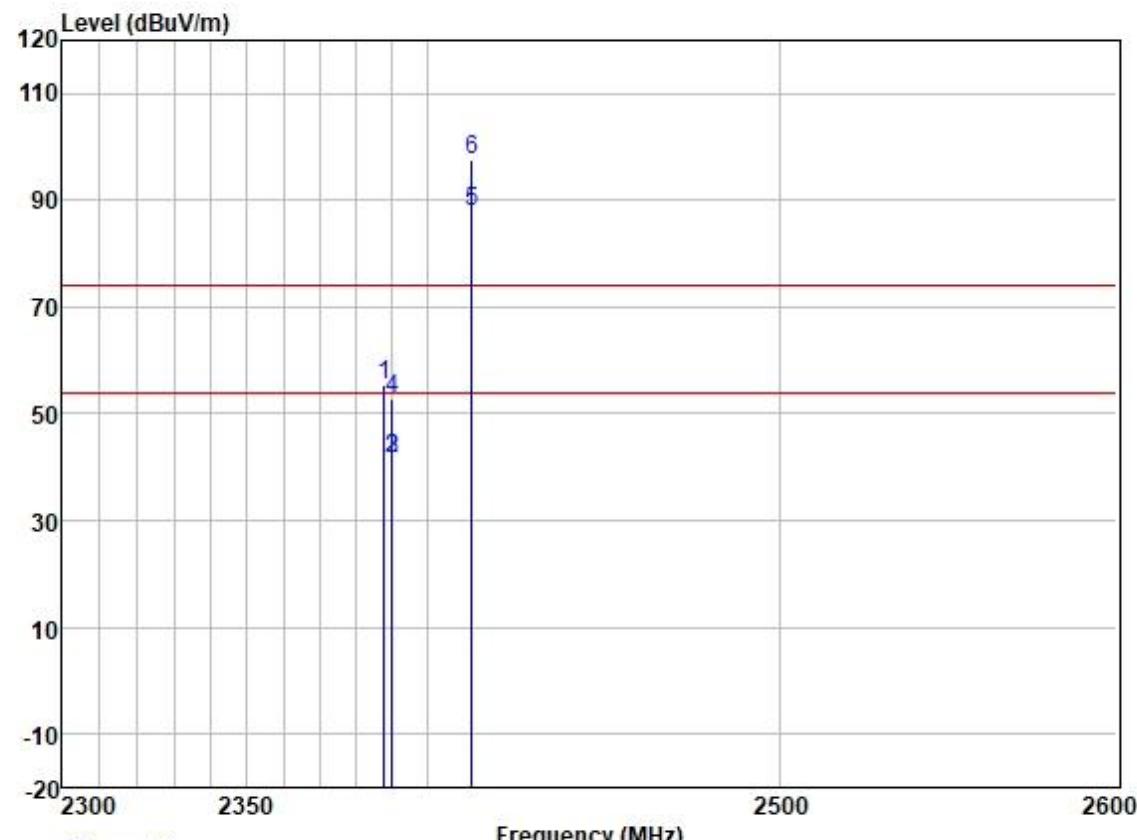
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Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



| Freq | ReadAntenna | | Cable | | Preamp | | Limit Line | Over Limit | Pol/Phase | Remark |
|------|-------------|--------|--------------|------|--------|-------|------------|------------|-----------|---------|
| | MHz | dBuV | Level Factor | Loss | Factor | dB | dBuV/m | dBuV/m | dB | |
| 1 | 2387.670 | 62.02 | 27.33 | 3.48 | 37.59 | 55.24 | 74.00 | -18.76 | VERTICAL | Peak |
| 2 | 2389.847 | 48.43 | 27.33 | 3.48 | 37.59 | 41.65 | 54.00 | -12.35 | VERTICAL | Average |
| 3 | 2390.000 | 48.27 | 27.33 | 3.48 | 37.59 | 41.49 | 54.00 | -12.51 | VERTICAL | Average |
| 4 | 2390.000 | 59.74 | 27.33 | 3.48 | 37.59 | 52.96 | 74.00 | -21.04 | VERTICAL | Peak |
| 5 * | 2412.000 | 94.63 | 27.38 | 3.47 | 37.59 | 87.89 | 54.00 | 33.89 | VERTICAL | Average |
| 6 * | 2412.000 | 104.20 | 27.38 | 3.47 | 37.59 | 97.46 | 74.00 | 23.46 | VERTICAL | Peak |

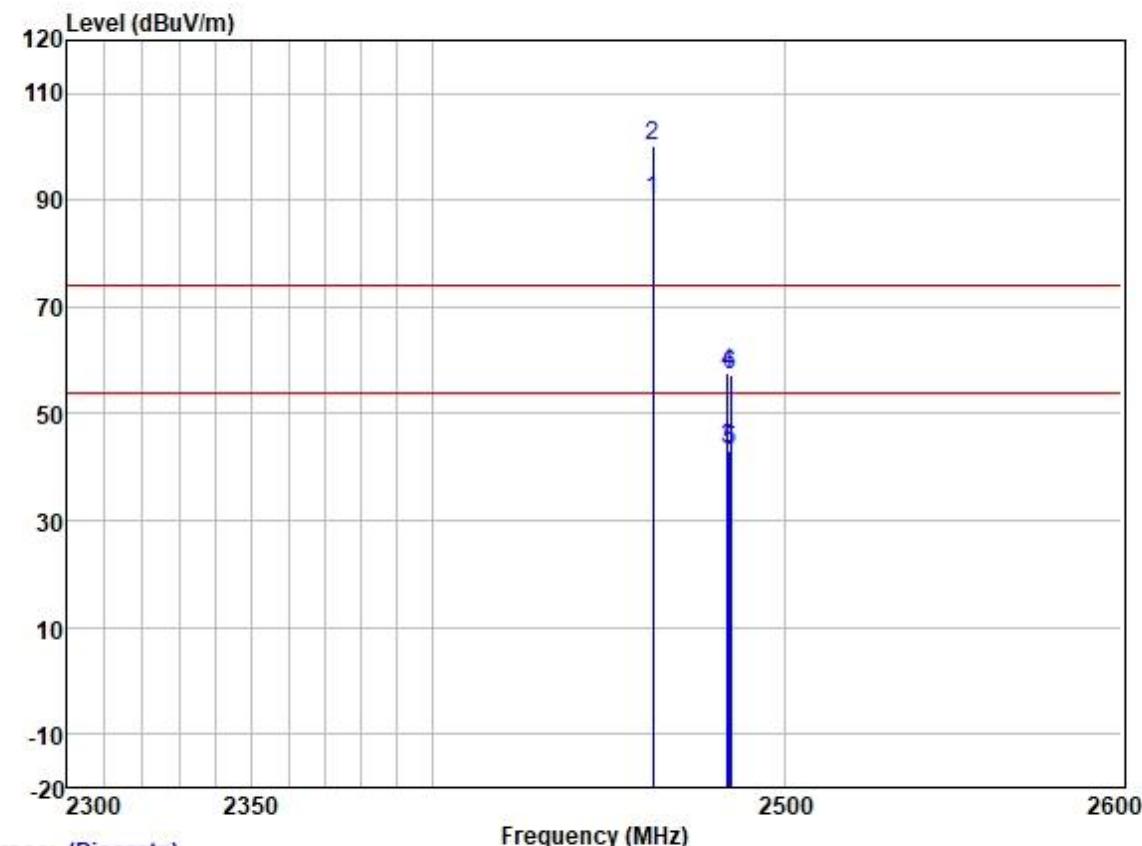
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



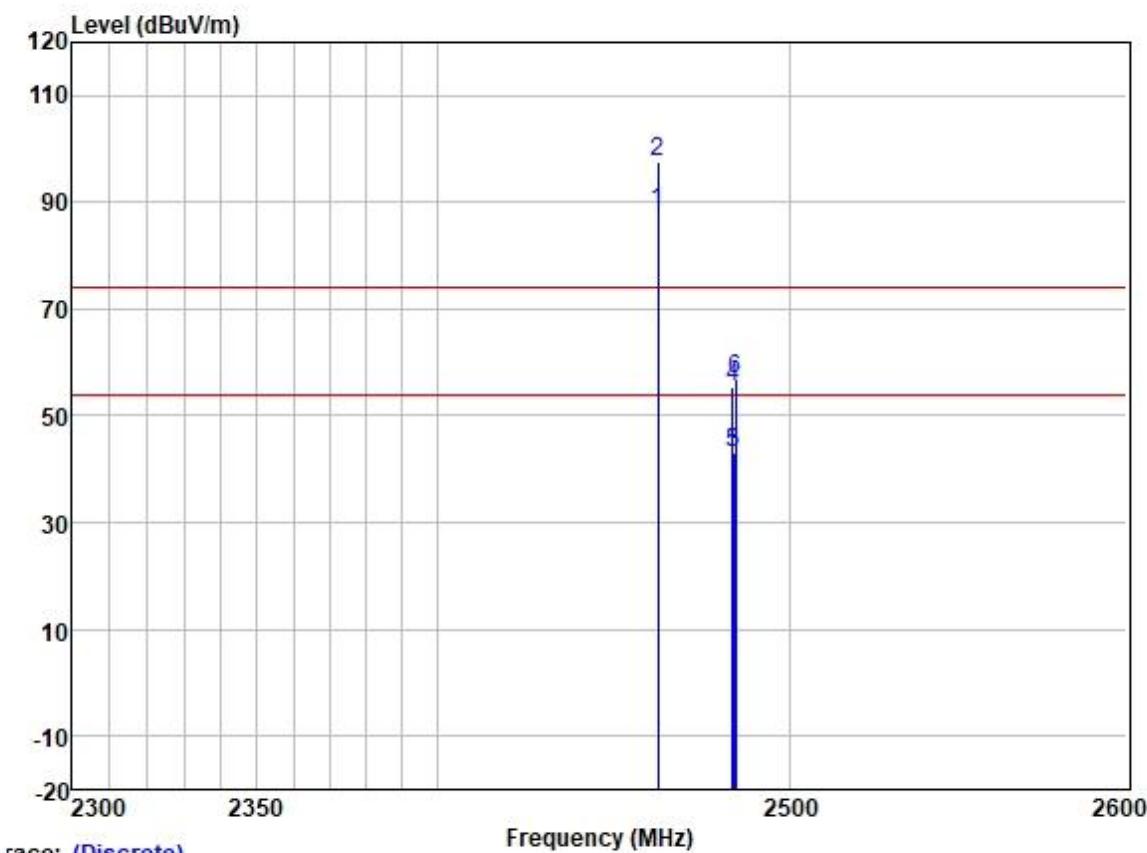
| Freq | ReadAntenna | | Cable | | Preamp | | Limit Line | Over Limit | Pol/Phase | Remark |
|--------------|-------------|--------|-------|--------|--------|--------|------------|------------|-----------|--------|
| | Level | Factor | Loss | Factor | Level | dBuV/m | dBuV/m | dB | | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | | |
| 1 * 2462.000 | 96.93 | 27.45 | 3.50 | 37.58 | 90.30 | 54.00 | 36.30 | HORIZONTAL | Average | |
| 2 * 2462.000 | 106.92 | 27.45 | 3.50 | 37.58 | 100.29 | 74.00 | 26.29 | HORIZONTAL | Peak | |
| 3 2483.500 | 49.96 | 27.48 | 3.53 | 37.57 | 43.40 | 54.00 | -10.60 | HORIZONTAL | Average | |
| 4 2483.500 | 64.38 | 27.48 | 3.53 | 37.57 | 57.82 | 74.00 | -16.18 | HORIZONTAL | Peak | |
| 5 2483.940 | 49.69 | 27.48 | 3.53 | 37.57 | 43.13 | 54.00 | -10.87 | HORIZONTAL | Average | |
| 6 2484.342 | 63.86 | 27.48 | 3.53 | 37.57 | 57.30 | 74.00 | -16.70 | HORIZONTAL | Peak | |

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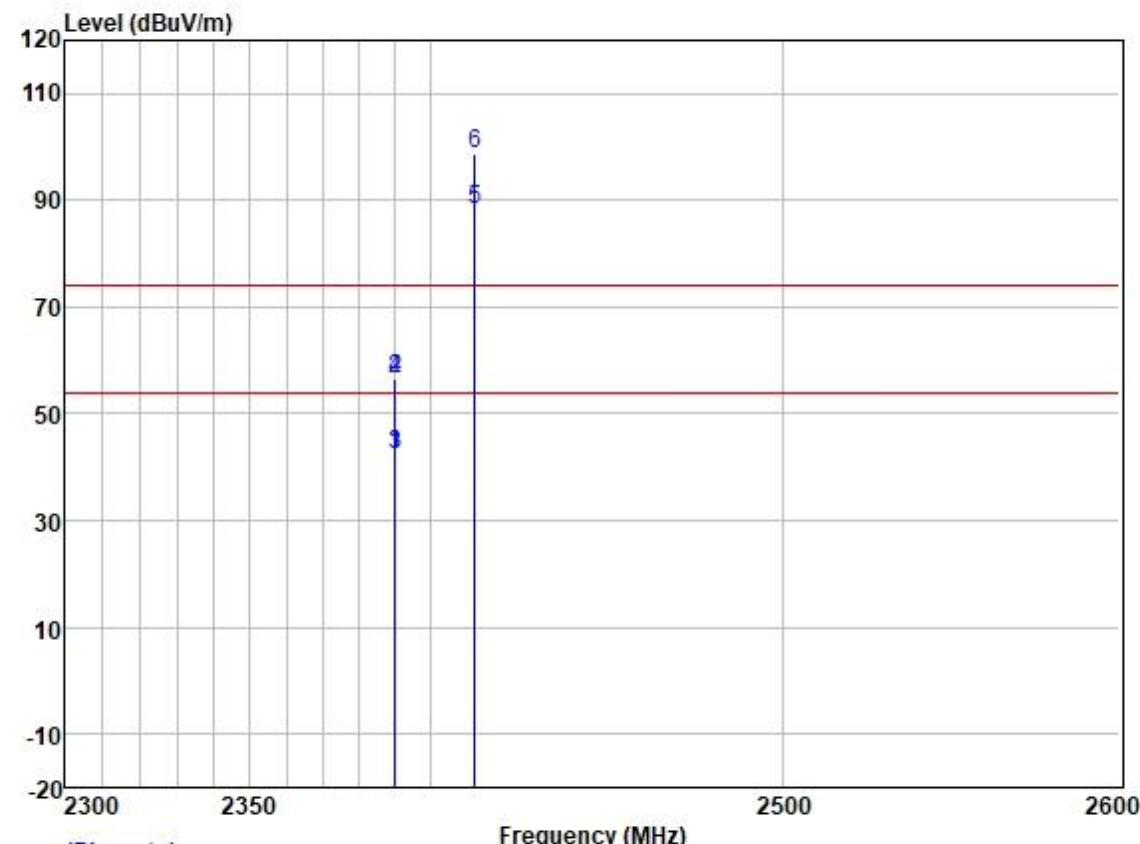
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Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



| Freq | ReadAntenna | | Cable | | Preamp | | Limit Line | Over Limit | Pol/Phase | Remark |
|------|-------------|--------|--------|------|--------|--------|------------|------------|------------|---------|
| | MHz | Level | Factor | Loss | Factor | dBuV/m | dBuV/m | dB | | |
| 1 | 2389.968 | 48.96 | 27.33 | 3.48 | 37.59 | 42.18 | 54.00 | -11.82 | HORIZONTAL | Average |
| 2 | 2389.968 | 63.49 | 27.33 | 3.48 | 37.59 | 56.71 | 74.00 | -17.29 | HORIZONTAL | Peak |
| 3 | 2390.000 | 48.96 | 27.33 | 3.48 | 37.59 | 42.18 | 54.00 | -11.82 | HORIZONTAL | Average |
| 4 | 2390.000 | 63.49 | 27.33 | 3.48 | 37.59 | 56.71 | 74.00 | -17.29 | HORIZONTAL | Peak |
| 5 * | 2412.000 | 95.16 | 27.38 | 3.47 | 37.59 | 88.42 | 54.00 | 34.42 | HORIZONTAL | Average |
| 6 * | 2412.000 | 105.29 | 27.38 | 3.47 | 37.59 | 98.55 | 74.00 | 24.55 | HORIZONTAL | Peak |

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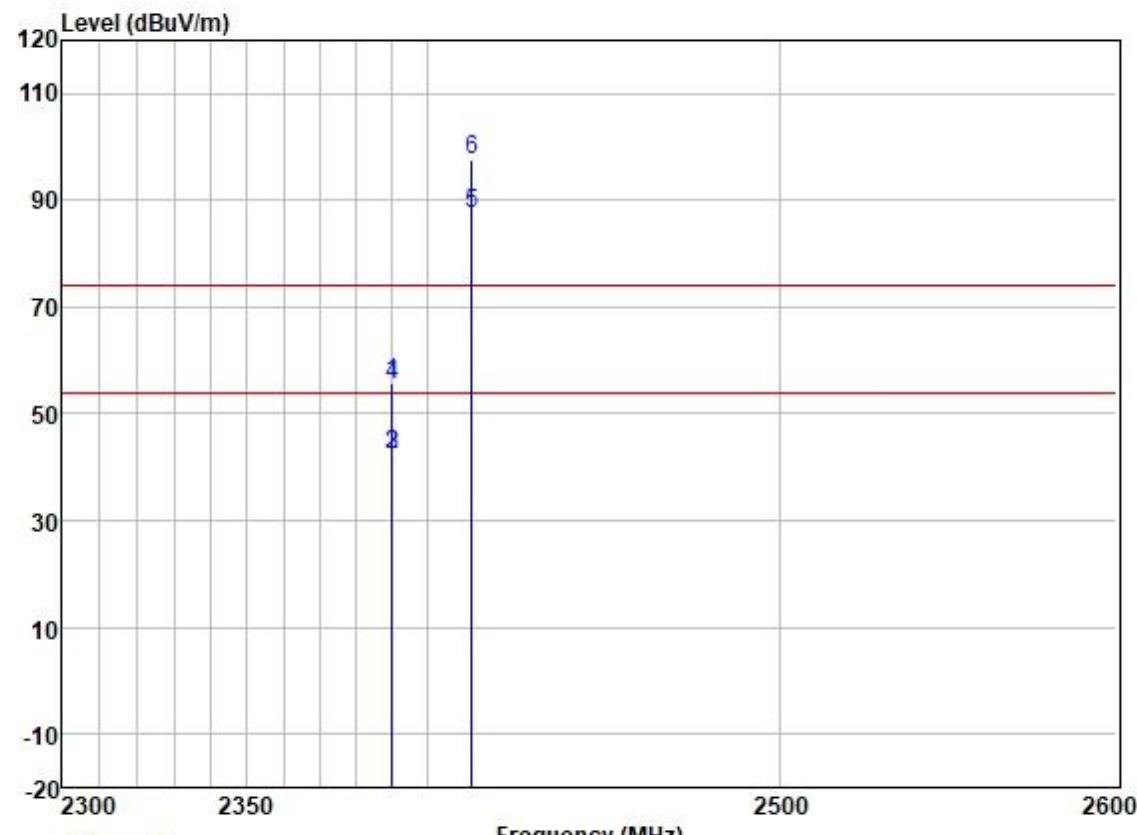
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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

| Freq | ReadAntenna | | Cable | | Preamp Loss | Factor | Limit Level | Line Limit | Over Limit | Pol/Phase | Remark |
|------|-------------|--------|-------|------|----------------|--------|----------------|---------------|---------------|-----------|--------|
| | MHz | dBuV | dB/m | dB | | | | | | | |
| 1 | 2389.847 | 62.52 | 27.33 | 3.48 | 37.59 | 55.74 | 74.00 | -18.26 | VERTICAL | Peak | |
| 2 | 2389.968 | 49.16 | 27.33 | 3.48 | 37.59 | 42.38 | 54.00 | -11.62 | VERTICAL | Average | |
| 3 | 2390.000 | 49.16 | 27.33 | 3.48 | 37.59 | 42.38 | 54.00 | -11.62 | VERTICAL | Average | |
| 4 | 2390.000 | 62.31 | 27.33 | 3.48 | 37.59 | 55.53 | 74.00 | -18.47 | VERTICAL | Peak | |
| 5 * | 2412.000 | 94.26 | 27.38 | 3.47 | 37.59 | 87.52 | 54.00 | 33.52 | VERTICAL | Average | |
| 6 * | 2412.000 | 104.39 | 27.38 | 3.47 | 37.59 | 97.65 | 74.00 | 23.65 | VERTICAL | Peak | |

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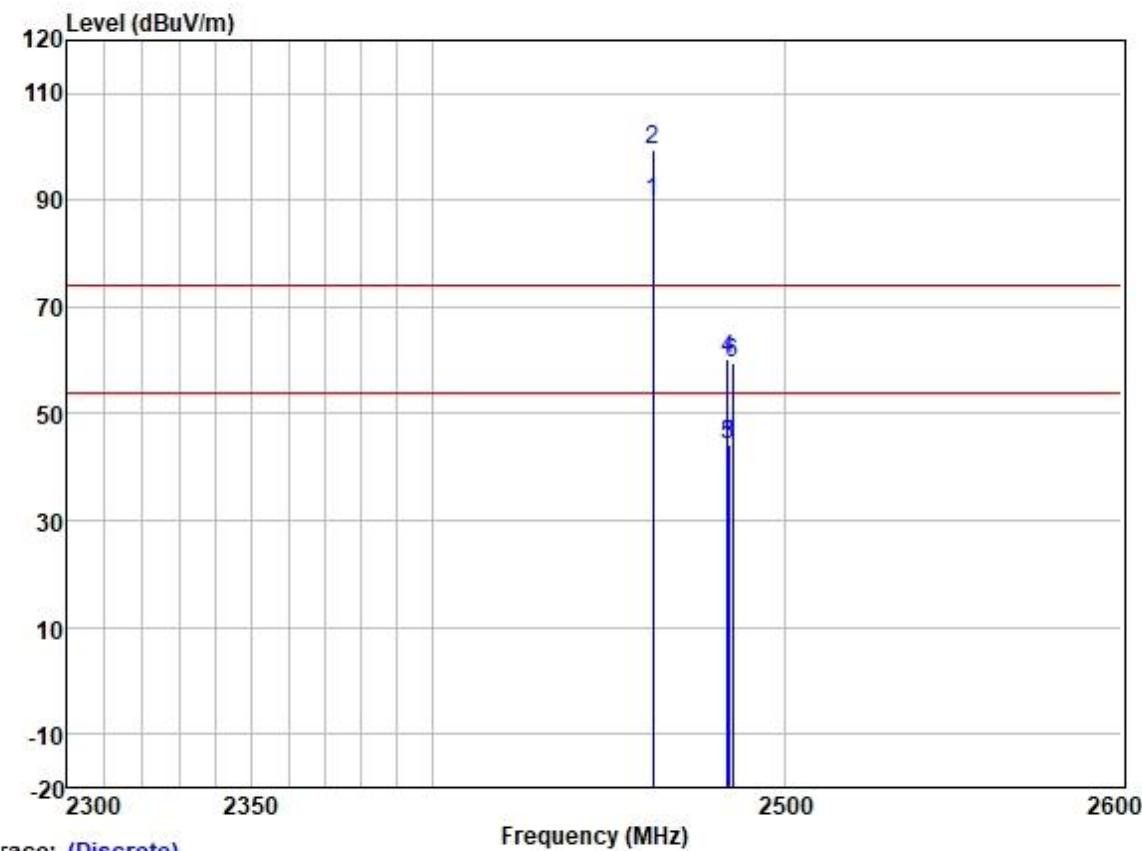
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



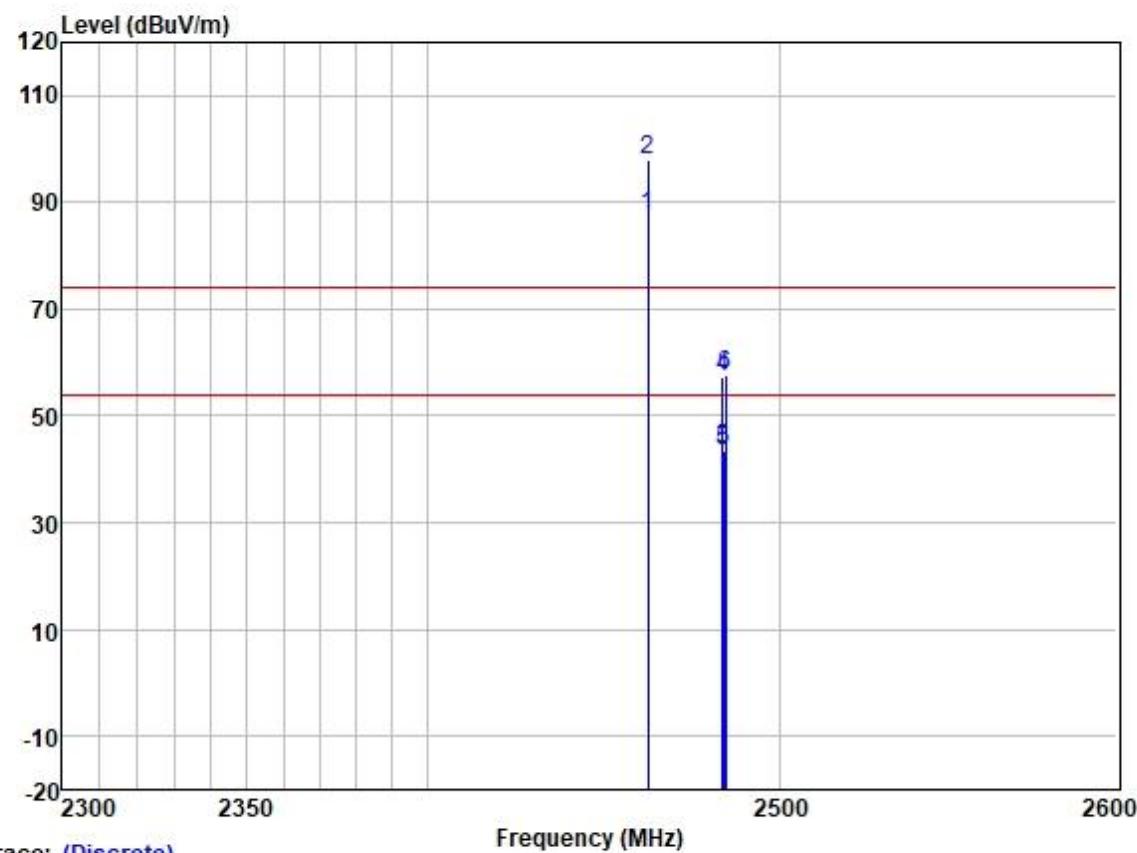
| Freq | ReadAntenna | | Cable | | Preamp | | Limit Line | Over Limit | Pol/Phase | Remark |
|--------------|-------------|--------|-------|--------|--------|--------|------------|------------|-----------|--------|
| | Level | Factor | Loss | Factor | Level | dBuV/m | | | | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | | |
| 1 * 2462.000 | 96.22 | 27.45 | 3.50 | 37.58 | 89.59 | 54.00 | 35.59 | HORIZONTAL | Average | |
| 2 * 2462.000 | 106.22 | 27.45 | 3.50 | 37.58 | 99.59 | 74.00 | 25.59 | HORIZONTAL | Peak | |
| 3 2483.500 | 50.76 | 27.48 | 3.53 | 37.57 | 44.20 | 54.00 | -9.80 | HORIZONTAL | Average | |
| 4 2483.500 | 66.73 | 27.48 | 3.53 | 37.57 | 60.17 | 74.00 | -13.83 | HORIZONTAL | Peak | |
| 5 2483.840 | 50.69 | 27.48 | 3.53 | 37.57 | 44.13 | 54.00 | -9.87 | HORIZONTAL | Average | |
| 6 2484.793 | 66.11 | 27.48 | 3.53 | 37.57 | 59.55 | 74.00 | -14.45 | HORIZONTAL | Peak | |

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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



| Freq | ReadAntenna | | Cable | | Preamp | | Limit Line | Over Limit | Pol/Phase | Remark |
|------|-------------|--------|--------------|------|--------|-------|------------|------------|-----------|---------|
| | MHz | dBuV | Level Factor | Loss | Factor | dB | dBuV/m | dBuV/m | dB | |
| 1 * | 2462.000 | 94.22 | 27.45 | 3.50 | 37.58 | 87.59 | 54.00 | 33.59 | VERTICAL | Average |
| 2 * | 2462.000 | 104.42 | 27.45 | 3.50 | 37.58 | 97.79 | 74.00 | 23.79 | VERTICAL | Peak |
| 3 | 2483.500 | 50.34 | 27.48 | 3.53 | 37.57 | 43.78 | 54.00 | -10.22 | VERTICAL | Average |
| 4 | 2483.500 | 63.83 | 27.48 | 3.53 | 37.57 | 57.27 | 74.00 | -16.73 | VERTICAL | Peak |
| 5 | 2483.790 | 50.05 | 27.48 | 3.53 | 37.57 | 43.49 | 54.00 | -10.51 | VERTICAL | Average |
| 6 | 2484.292 | 64.11 | 27.48 | 3.53 | 37.57 | 57.55 | 74.00 | -16.45 | VERTICAL | Peak |

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7.3 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

Measurement Distance: 3m

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.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 50.6 % RH Atmospheric Pressure: 1015 mbar

7.3.2 Test Mode Description

| Pre-scan / Mode Final test | Mode Code | Description |
|-------------------------------|--------------|--|
| Pre-scan | 04 | 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). Only the data of worst case is recorded in the report. |
| Final test | 05 | Charge + TX mode_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report. |

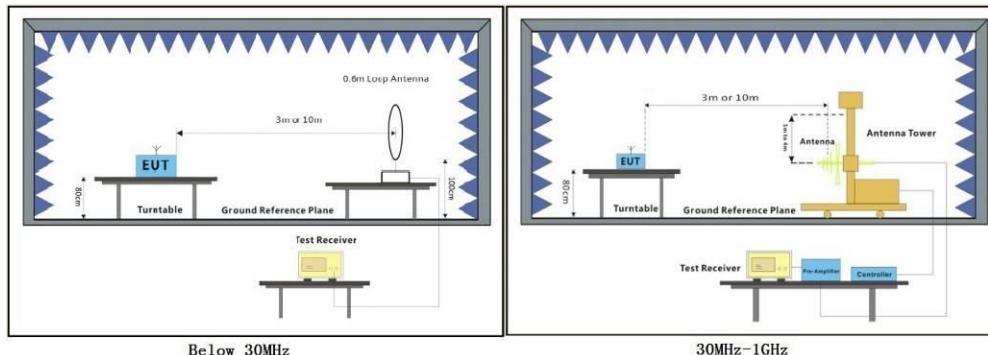
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7.3.3 Test Setup Diagram



7.3.4 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 peak, quasi-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) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

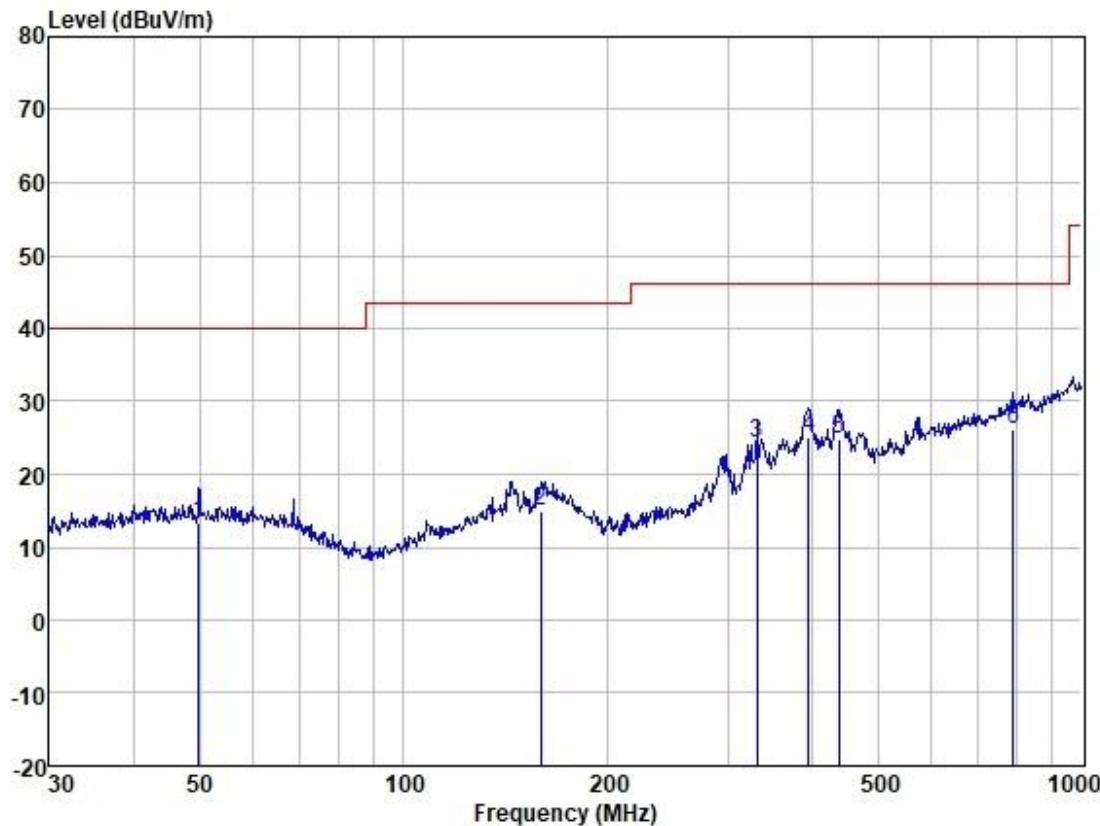
3) Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



Site : SGS
Job :
Model :
Power :
Test Mode : 05

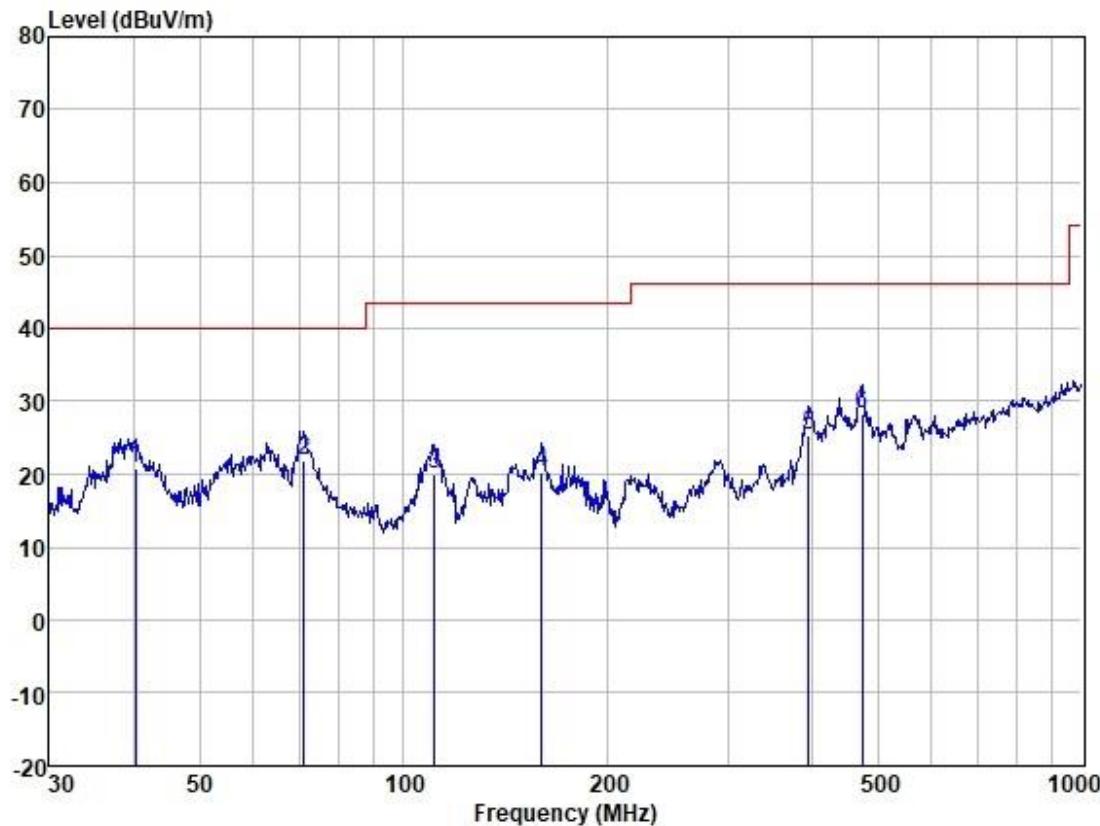
| | Freq | Read Level | Anterna Factor | Cable Loss | Preamp Factor | Measured Level | Limit Line | Over Limit | Pol/ Phase | Remark |
|---|---------|------------|----------------|------------|---------------|----------------|------------|------------|------------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 49.881 | 25.72 | 13.98 | 1.13 | 27.60 | 13.23 | 40.00 | -26.77 | HORIZONTAL | QP |
| 2 | 159.225 | 26.41 | 13.67 | 2.32 | 27.36 | 15.04 | 43.50 | -28.46 | HORIZONTAL | QP |
| 3 | 331.355 | 34.00 | 14.26 | 3.44 | 27.41 | 24.29 | 46.00 | -21.71 | HORIZONTAL | QP |
| 4 | 394.855 | 33.72 | 15.45 | 3.86 | 27.98 | 25.05 | 46.00 | -20.95 | HORIZONTAL | QP |
| 5 | 438.655 | 32.25 | 16.73 | 4.11 | 28.21 | 24.88 | 46.00 | -21.12 | HORIZONTAL | QP |
| 6 | 793.396 | 26.04 | 22.67 | 6.00 | 28.60 | 26.11 | 46.00 | -19.89 | HORIZONTAL | QP |

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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Site : SGS
 Job :
 Model :
 Power :
 Test Mode : 05

| | Read Freq | Anterna Level | Cable Factor | Preamp Loss | Measured Factor | Limit Level | Over Line | Pol/ Phase | Remark |
|---|--------------|------------------|-----------------|----------------|--------------------|----------------|--------------|---------------|-------------|
| | MHz | dBuV | dB/m | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 40.135 | 33.95 | 13.50 | 1.09 | 27.61 | 20.93 | 40.00 | -19.07 | VERTICAL QP |
| 2 | 71.330 | 36.81 | 11.22 | 1.42 | 27.60 | 21.85 | 40.00 | -18.15 | VERTICAL QP |
| 3 | 110.957 | 35.46 | 10.45 | 1.77 | 27.58 | 20.10 | 43.50 | -23.40 | VERTICAL QP |
| 4 | 159.784 | 31.50 | 13.69 | 2.32 | 27.36 | 20.15 | 43.50 | -23.35 | VERTICAL QP |
| 5 | 394.855 | 34.02 | 15.45 | 3.86 | 27.98 | 25.35 | 46.00 | -20.65 | VERTICAL QP |
| 6 | 473.835 | 35.20 | 17.29 | 4.32 | 28.50 | 28.31 | 46.00 | -17.69 | VERTICAL QP |

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7.4 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

Measurement Distance: 3m

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.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 49.5 % RH Atmospheric Pressure: 1015 mbar

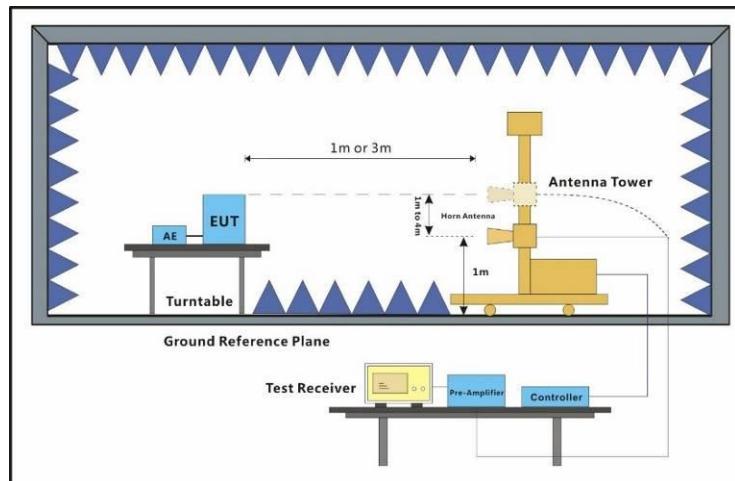
7.4.2 Test Mode Description

| Pre-scan / Mode Final test | Mode Code | Description |
|-------------------------------|--------------|--|
| Pre-scan | 04 | 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). Only the data of worst case is recorded in the report. |
| Final test | 05 | Charge + TX mode_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report. |

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7.4.3 Test Setup Diagram

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7.4.4 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 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, quasi-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) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier 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) 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.

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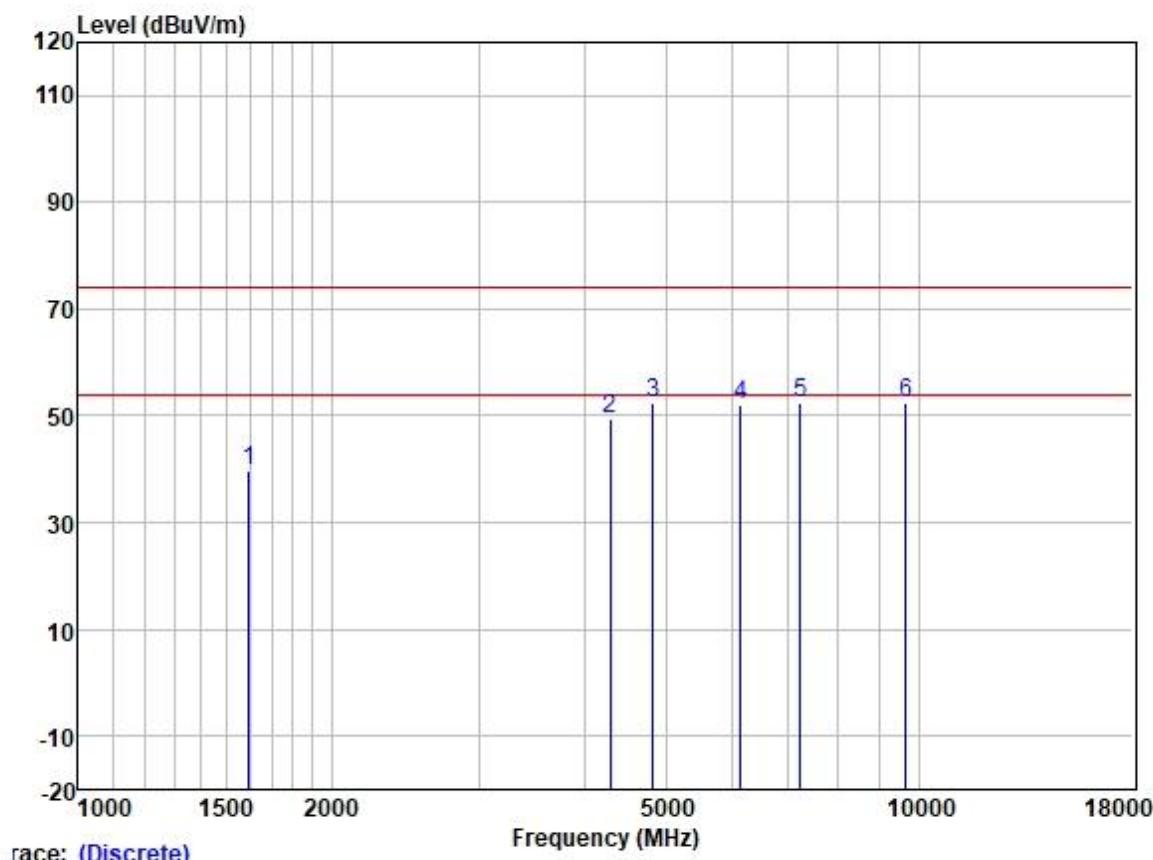
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



| Freq | ReadAntenna | | Cable | | Preamp Loss | Factor | Limit Level | Over Line | Limit | Pol/Phase | Remark |
|------|-------------|-------|-------|------|----------------|--------|----------------|--------------|------------|-----------|--------|
| | MHz | dBuV | dB/m | dB | | | | | | | |
| 1 | 1597.181 | 49.16 | 25.58 | 2.80 | 37.98 | 39.56 | 74.00 | -34.44 | HORIZONTAL | Peak | |
| 2 | 4291.977 | 51.30 | 30.45 | 4.64 | 36.81 | 49.58 | 74.00 | -24.42 | HORIZONTAL | Peak | |
| 3 | 4824.000 | 52.51 | 31.45 | 5.42 | 36.83 | 52.55 | 74.00 | -21.45 | HORIZONTAL | Peak | |
| 4 | 6142.019 | 50.27 | 32.77 | 6.12 | 36.93 | 52.23 | 74.00 | -21.77 | HORIZONTAL | Peak | |
| 5 | 7236.000 | 47.92 | 35.70 | 6.03 | 37.39 | 52.26 | 74.00 | -21.74 | HORIZONTAL | Peak | |
| 6 | 9648.000 | 44.32 | 38.40 | 7.06 | 37.42 | 52.36 | 74.00 | -21.64 | HORIZONTAL | Peak | |

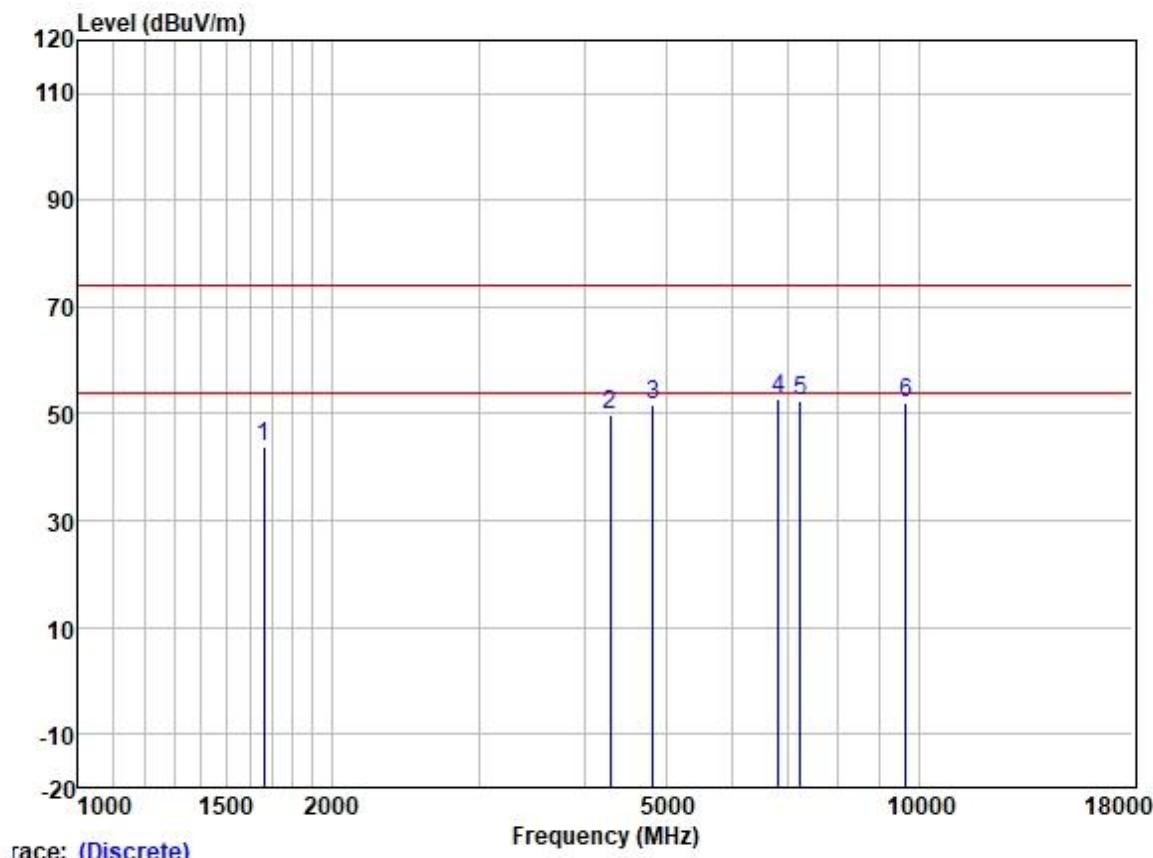
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Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

| Freq | ReadAntenna | | Cable | | Preamp Loss | Factor | Limit Level | Line | Over Limit | Pol/Phase | Remark |
|------|-------------|-------|-------|------|----------------|--------|----------------|--------|---------------|-----------|--------|
| | MHz | dBuV | dB/m | dB | | | | | | | |
| 1 | 1663.137 | 53.26 | 25.65 | 2.80 | 37.91 | 43.80 | 74.00 | -30.20 | VERTICAL | Peak | |
| 2 | 4291.977 | 51.70 | 30.45 | 4.64 | 36.81 | 49.98 | 74.00 | -24.02 | VERTICAL | Peak | |
| 3 | 4824.000 | 51.52 | 31.45 | 5.42 | 36.83 | 51.56 | 74.00 | -22.44 | VERTICAL | Peak | |
| 4 | 6815.551 | 49.42 | 34.70 | 5.82 | 37.13 | 52.81 | 74.00 | -21.19 | VERTICAL | Peak | |
| 5 | 7236.000 | 48.27 | 35.70 | 6.03 | 37.39 | 52.61 | 74.00 | -21.39 | VERTICAL | Peak | |
| 6 | 9648.000 | 44.01 | 38.40 | 7.06 | 37.42 | 52.05 | 74.00 | -21.95 | VERTICAL | Peak | |

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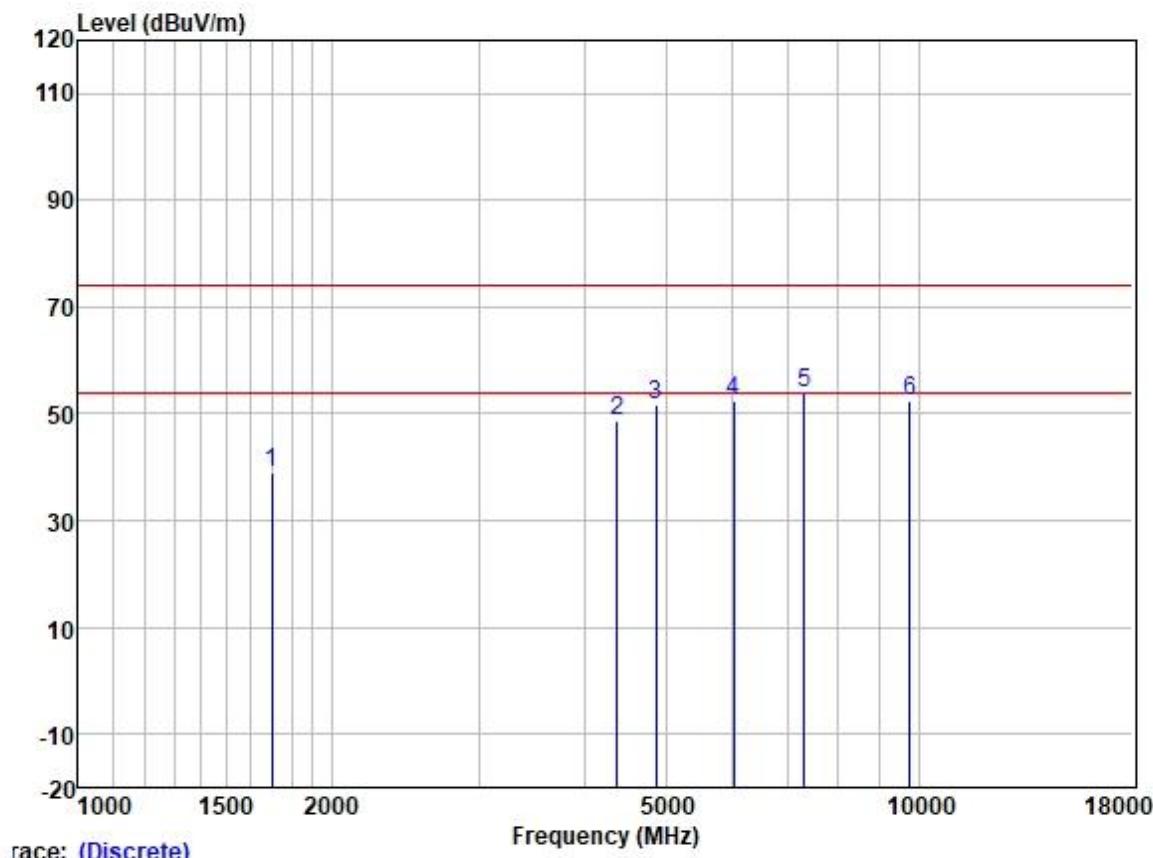
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



| ReadAntenna | Cable | Preamp | Limit | Over | Limit Line | | | Pol/Phase | Remark |
|-------------|-------|--------|-------|-------|------------|--------|--------|------------|--------|
| | | | | | Freq | Level | Factor | | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 1697.129 | 48.42 | 25.71 | 2.80 | 37.89 | 39.04 | 74.00 | -34.96 | HORIZONTAL | Peak |
| 2 4379.699 | 50.29 | 30.64 | 4.69 | 36.81 | 48.81 | 74.00 | -25.19 | HORIZONTAL | Peak |
| 3 4874.000 | 51.56 | 31.54 | 5.50 | 36.84 | 51.76 | 74.00 | -22.24 | HORIZONTAL | Peak |
| 4 6018.999 | 50.84 | 32.44 | 6.19 | 36.90 | 52.57 | 74.00 | -21.43 | HORIZONTAL | Peak |
| 5 7311.000 | 49.33 | 35.93 | 6.11 | 37.42 | 53.95 | 74.00 | -20.05 | HORIZONTAL | Peak |
| 6 9748.000 | 44.48 | 38.50 | 7.02 | 37.41 | 52.59 | 74.00 | -21.41 | HORIZONTAL | Peak |

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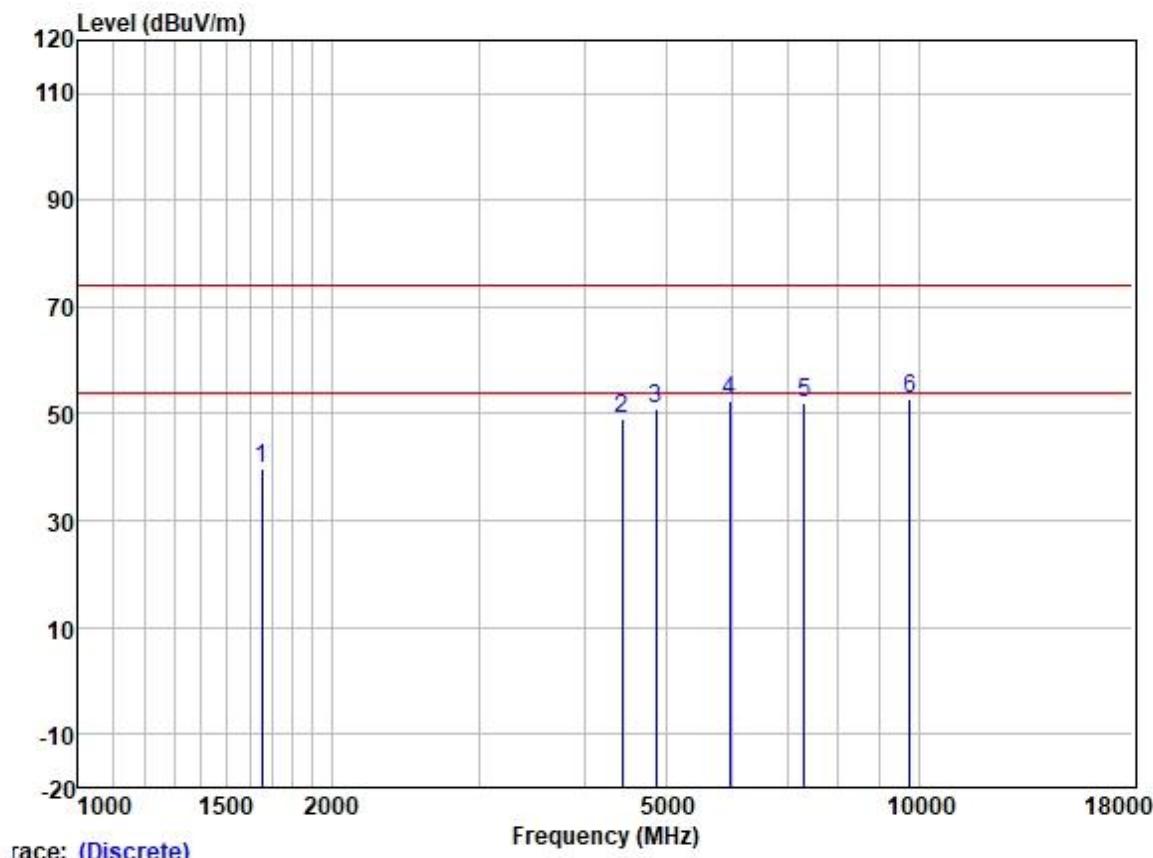
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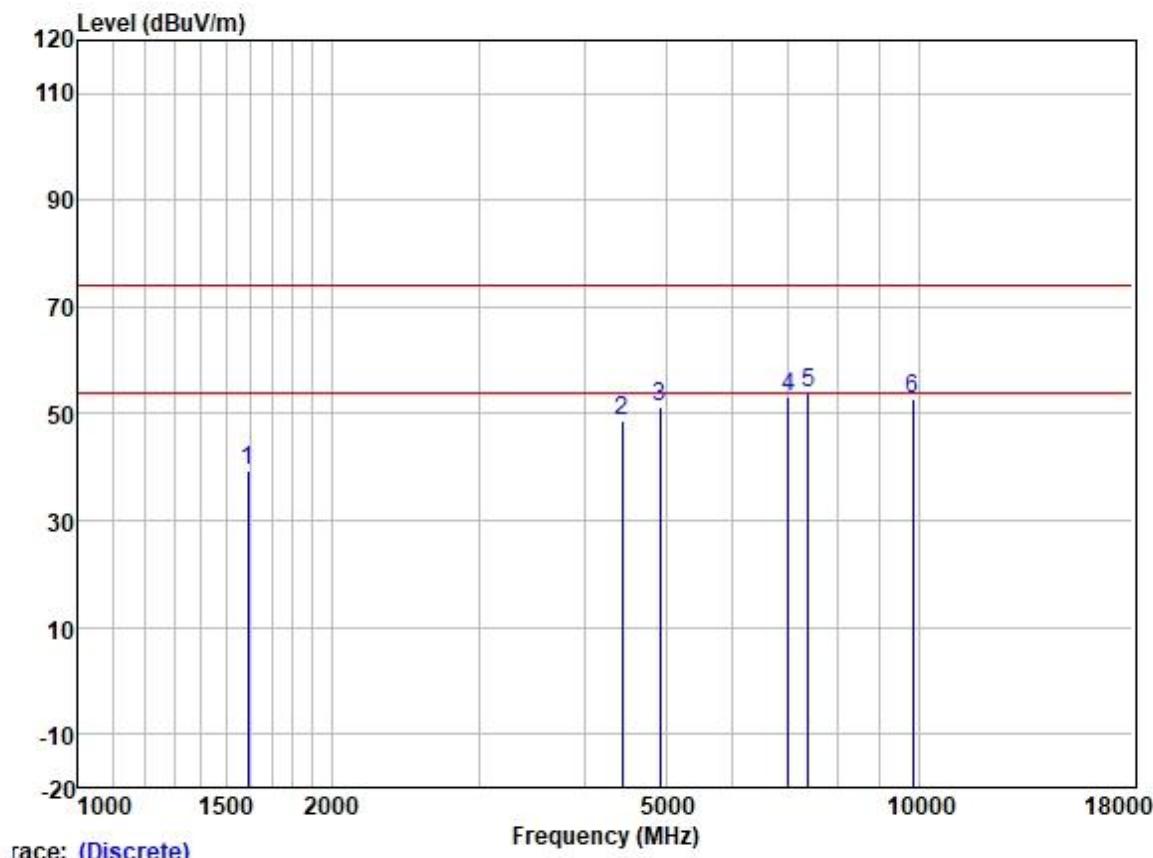
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Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Mode: (Discrete)

| Freq | ReadAntenna | | Cable Preamp | | Limit Line | Over Limit | Pol/Phase | Remark |
|------|-------------|--------|--------------|--------|------------|------------|-----------|------------------------|
| | Level | Factor | Loss | Factor | | | | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 1592.571 | 48.98 | 25.57 | 2.80 | 37.98 | 39.37 | 74.00 | -34.63 HORIZONTAL Peak |
| 2 | 4443.453 | 50.04 | 30.73 | 4.83 | 36.81 | 48.79 | 74.00 | -25.21 HORIZONTAL Peak |
| 3 | 4924.000 | 50.75 | 31.62 | 5.60 | 36.84 | 51.13 | 74.00 | -22.87 HORIZONTAL Peak |
| 4 | 6995.172 | 49.50 | 35.00 | 5.81 | 37.25 | 53.06 | 74.00 | -20.94 HORIZONTAL Peak |
| 5 | 7386.000 | 49.08 | 36.17 | 6.19 | 37.45 | 53.99 | 74.00 | -20.01 HORIZONTAL Peak |
| 6 | 9848.000 | 44.72 | 38.58 | 6.99 | 37.41 | 52.88 | 74.00 | -21.12 HORIZONTAL Peak |

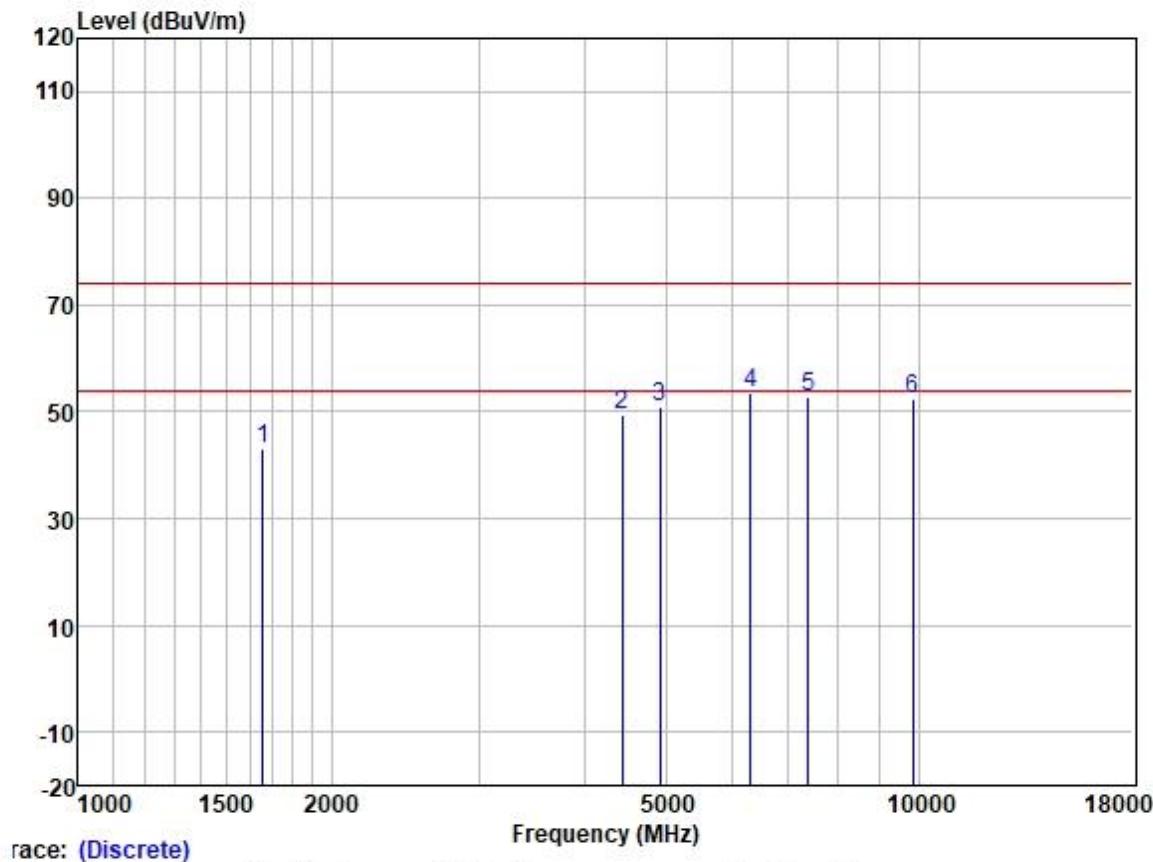
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Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Race: (Discrete)

| Freq | ReadAntenna | | Cable | | Preamp | Limit | Over | Line | Limit | Pol/Phase | Remark |
|------------|-------------|--------|-------|--------|--------|--------|--------|----------|-------|-----------|--------|
| | Level | Factor | Loss | Factor | | | | | | | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | | | |
| 1 1658.337 | 52.45 | 25.65 | 2.80 | 37.93 | 42.97 | 74.00 | -31.03 | VERTICAL | Peak | | |
| 2 4443.453 | 50.52 | 30.73 | 4.83 | 36.81 | 49.27 | 74.00 | -24.73 | VERTICAL | Peak | | |
| 3 4924.000 | 50.64 | 31.62 | 5.60 | 36.84 | 51.02 | 74.00 | -22.98 | VERTICAL | Peak | | |
| 4 6303.890 | 51.26 | 33.44 | 5.97 | 36.96 | 53.71 | 74.00 | -20.29 | VERTICAL | Peak | | |
| 5 7386.000 | 47.93 | 36.17 | 6.19 | 37.45 | 52.84 | 74.00 | -21.16 | VERTICAL | Peak | | |
| 6 9848.000 | 44.15 | 38.58 | 6.99 | 37.41 | 52.31 | 74.00 | -21.69 | VERTICAL | Peak | | |

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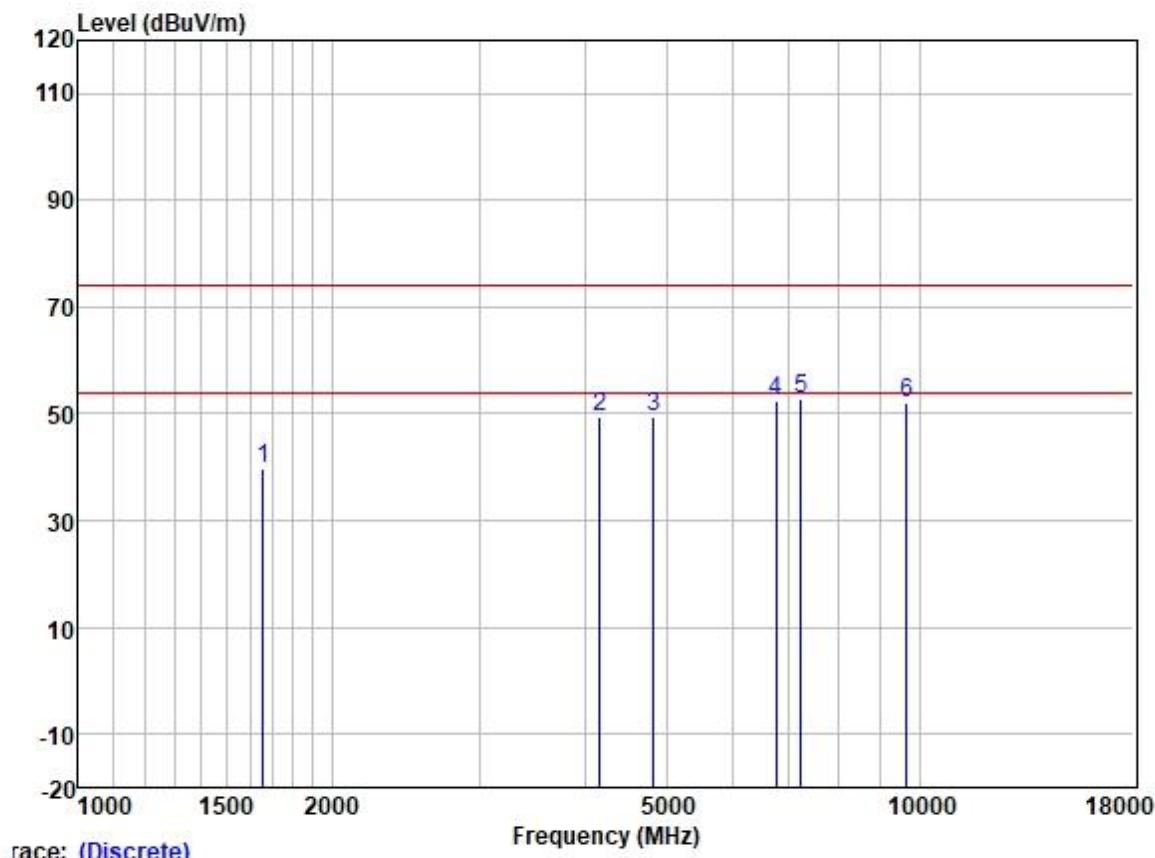
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

| Freq | ReadAntenna | | Cable | | Preamp Loss Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|------|-------------|-------|-------|------|-----------------------|-------|---------------|---------------|------------|--------|
| | MHz | dBuV | dB/m | dB | | | | | | |
| 1 | 1658.337 | 49.26 | 25.65 | 2.80 | 37.93 | 39.78 | 74.00 | -34.22 | HORIZONTAL | Peak |
| 2 | 4169.698 | 51.44 | 30.09 | 4.60 | 36.80 | 49.33 | 74.00 | -24.67 | HORIZONTAL | Peak |
| 3 | 4824.000 | 49.39 | 31.45 | 5.42 | 36.83 | 49.43 | 74.00 | -24.57 | HORIZONTAL | Peak |
| 4 | 6756.708 | 49.25 | 34.56 | 5.82 | 37.10 | 52.53 | 74.00 | -21.47 | HORIZONTAL | Peak |
| 5 | 7236.000 | 48.33 | 35.70 | 6.03 | 37.39 | 52.67 | 74.00 | -21.33 | HORIZONTAL | Peak |
| 6 | 9648.000 | 44.17 | 38.40 | 7.06 | 37.42 | 52.21 | 74.00 | -21.79 | HORIZONTAL | Peak |

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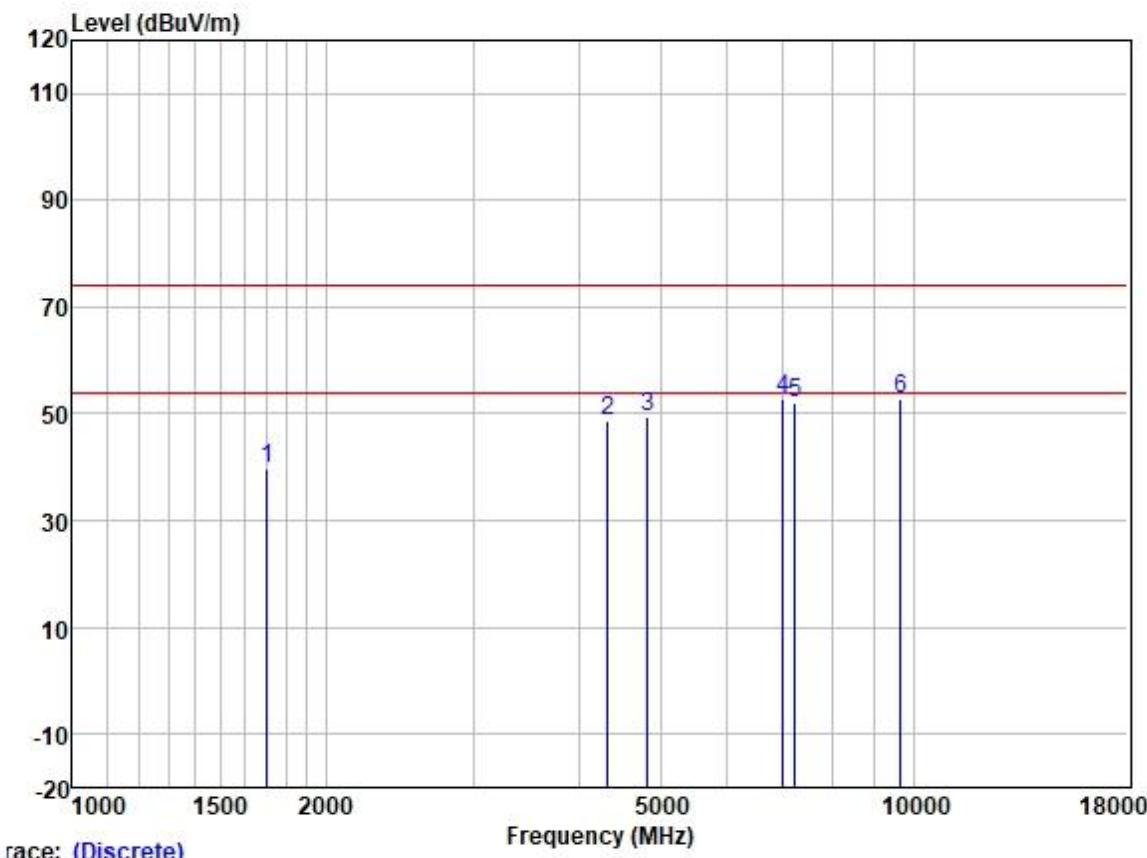
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Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



| Freq | ReadAntenna | | Cable | | Preamp Loss Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|------|-------------|-------|-------|------|-----------------------|-------|---------------|---------------|-----------|--------|
| | MHz | dBuV | dB/m | dB | | | | | | |
| 1 | 1702.042 | 49.10 | 25.72 | 2.80 | 37.89 | 39.73 | 74.00 | -34.27 | VERTICAL | Peak |
| 2 | 4329.354 | 50.46 | 30.54 | 4.67 | 36.81 | 48.86 | 74.00 | -25.14 | VERTICAL | Peak |
| 3 | 4824.000 | 49.23 | 31.45 | 5.42 | 36.83 | 49.27 | 74.00 | -24.73 | VERTICAL | Peak |
| 4 | 6995.172 | 49.15 | 35.00 | 5.81 | 37.25 | 52.71 | 74.00 | -21.29 | VERTICAL | Peak |
| 5 | 7236.000 | 47.72 | 35.70 | 6.03 | 37.39 | 52.06 | 74.00 | -21.94 | VERTICAL | Peak |
| 6 | 9648.000 | 44.63 | 38.40 | 7.06 | 37.42 | 52.67 | 74.00 | -21.33 | VERTICAL | Peak |

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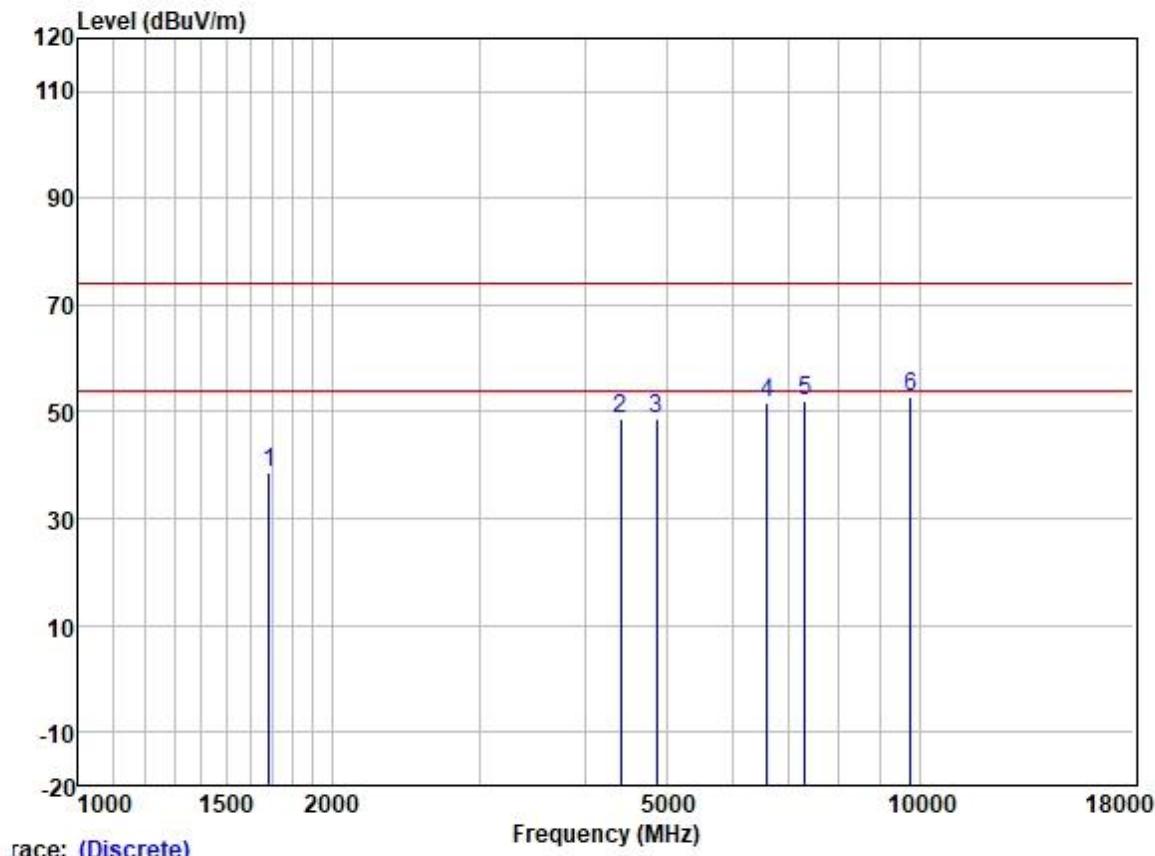
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



| Freq | ReadAntenna | | Cable | | Preamp Loss Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|------|-------------|-------|--------------|------|-----------------------|-------|---------------|---------------|------------|--------|
| | MHz | dBuV | Level Factor | dB | | | | | | |
| 1 | 1687.347 | 48.19 | 25.69 | 2.80 | 37.91 | 38.77 | 74.00 | -35.23 | HORIZONTAL | Peak |
| 2 | 4417.841 | 50.06 | 30.70 | 4.74 | 36.81 | 48.69 | 74.00 | -25.31 | HORIZONTAL | Peak |
| 3 | 4874.000 | 48.48 | 31.54 | 5.50 | 36.84 | 48.68 | 74.00 | -25.32 | HORIZONTAL | Peak |
| 4 | 6583.209 | 48.87 | 34.13 | 5.84 | 37.03 | 51.81 | 74.00 | -22.19 | HORIZONTAL | Peak |
| 5 | 7311.000 | 47.43 | 35.93 | 6.11 | 37.42 | 52.05 | 74.00 | -21.95 | HORIZONTAL | Peak |
| 6 | 9748.000 | 44.51 | 38.50 | 7.02 | 37.41 | 52.62 | 74.00 | -21.38 | HORIZONTAL | Peak |

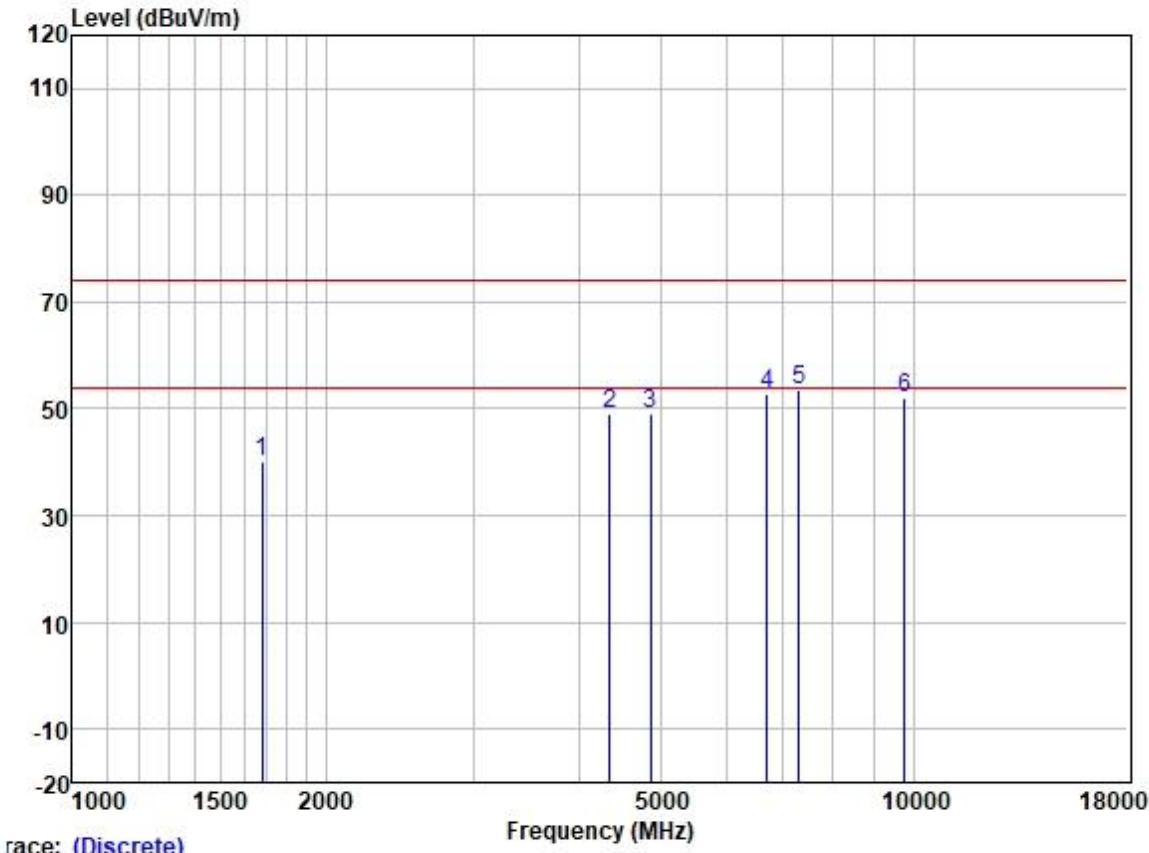
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Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



| Freq | ReadAntenna | | Cable Preamp | | Limit Level | Over Line | Limit Pol/Phase | Remark |
|------|-------------|-------|--------------|------|-------------|-----------|-----------------|----------------------|
| | MHz | dBuV | dB/m | dB | | | | |
| 1 | 1682.477 | 49.41 | 25.68 | 2.80 | 37.91 | 39.98 | 74.00 | -34.02 VERTICAL Peak |
| 2 | 4354.454 | 50.45 | 30.59 | 4.68 | 36.81 | 48.91 | 74.00 | -25.09 VERTICAL Peak |
| 3 | 4874.000 | 49.02 | 31.54 | 5.50 | 36.84 | 49.22 | 74.00 | -24.78 VERTICAL Peak |
| 4 | 6698.373 | 49.60 | 34.38 | 5.83 | 37.08 | 52.73 | 74.00 | -21.27 VERTICAL Peak |
| 5 | 7311.000 | 48.86 | 35.93 | 6.11 | 37.42 | 53.48 | 74.00 | -20.52 VERTICAL Peak |
| 6 | 9748.000 | 44.01 | 38.50 | 7.02 | 37.41 | 52.12 | 74.00 | -21.88 VERTICAL Peak |

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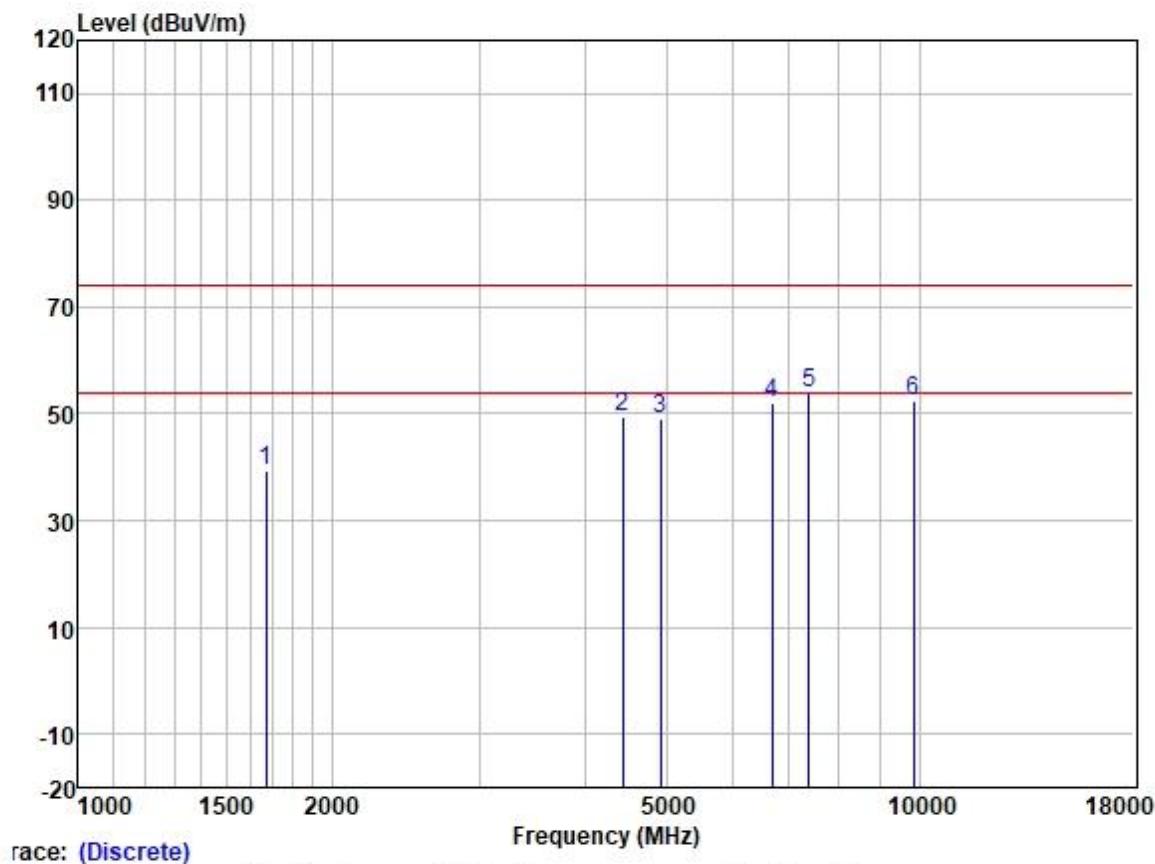
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Race: (Discrete)

| Freq | ReadAntenna | | Cable | | Preamp Loss Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|------|-------------|-------|--------------|------|-----------------------|-------|---------------|---------------|------------|--------|
| | MHz | dBuV | Level Factor | dB | | | | | | |
| 1 | 1672.779 | 48.67 | 25.67 | 2.80 | 37.91 | 39.23 | 74.00 | -34.77 | HORIZONTAL | Peak |
| 2 | 4443.453 | 50.70 | 30.73 | 4.83 | 36.81 | 49.45 | 74.00 | -24.55 | HORIZONTAL | Peak |
| 3 | 4924.000 | 48.65 | 31.62 | 5.60 | 36.84 | 49.03 | 74.00 | -24.97 | HORIZONTAL | Peak |
| 4 | 6679.040 | 48.95 | 34.33 | 5.83 | 37.07 | 52.04 | 74.00 | -21.96 | HORIZONTAL | Peak |
| 5 | 7386.000 | 48.90 | 36.17 | 6.19 | 37.45 | 53.81 | 74.00 | -20.19 | HORIZONTAL | Peak |
| 6 | 9848.000 | 44.16 | 38.58 | 6.99 | 37.41 | 52.32 | 74.00 | -21.68 | HORIZONTAL | Peak |

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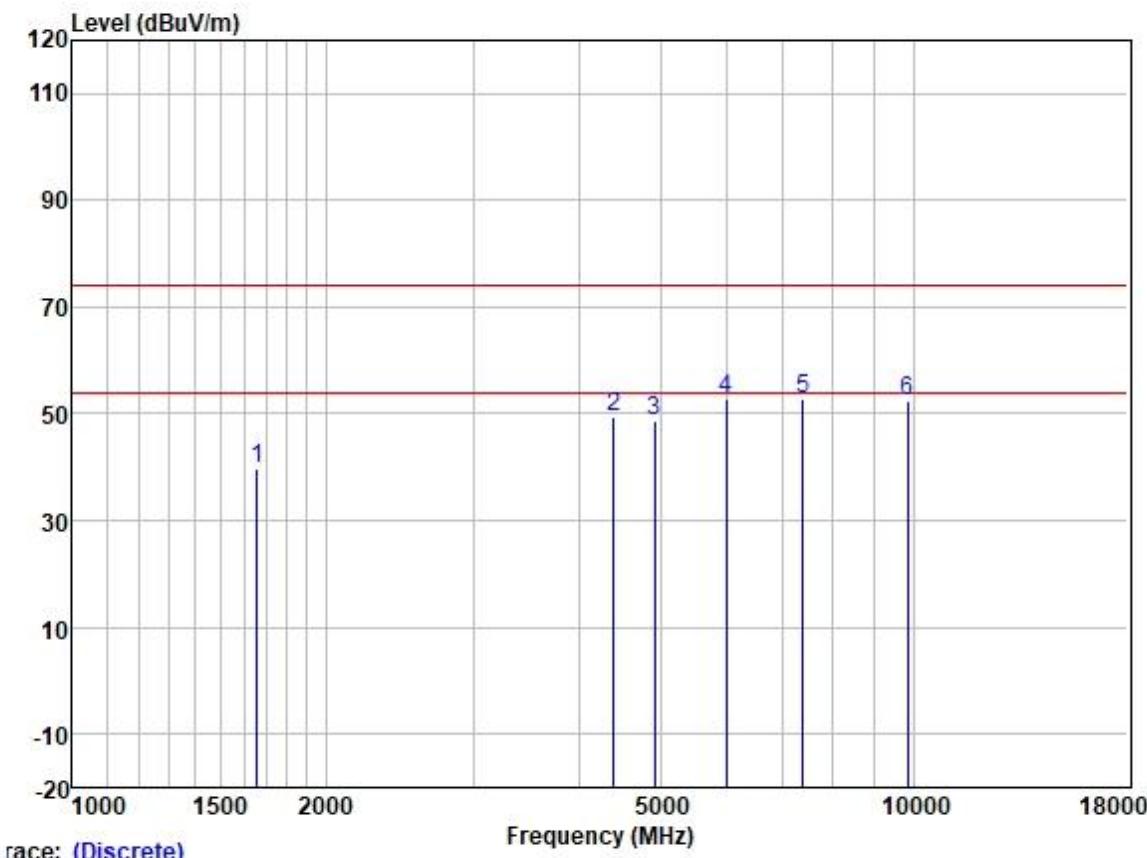
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Test Mode: 05; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



| Freq | ReadAntenna | | Cable | | Preamp | Limit | Over | Line | Limit | Pol/Phase | Remark |
|------|-------------|-------|--------|------|--------|-------|-------|--------|----------|-----------|--------|
| | MHz | Level | Factor | Loss | | | | | | | |
| 1 | 1658.337 | 49.38 | 25.65 | 2.80 | 37.93 | 39.90 | 74.00 | -34.10 | VERTICAL | Peak | |
| 2 | 4405.090 | 50.91 | 30.68 | 4.70 | 36.81 | 49.48 | 74.00 | -24.52 | VERTICAL | Peak | |
| 3 | 4924.000 | 48.36 | 31.62 | 5.60 | 36.84 | 48.74 | 74.00 | -25.26 | VERTICAL | Peak | |
| 4 | 5984.305 | 51.34 | 32.39 | 6.15 | 36.90 | 52.98 | 74.00 | -21.02 | VERTICAL | Peak | |
| 5 | 7386.000 | 47.90 | 36.17 | 6.19 | 37.45 | 52.81 | 74.00 | -21.19 | VERTICAL | Peak | |
| 6 | 9848.000 | 44.23 | 38.58 | 6.99 | 37.41 | 52.39 | 74.00 | -21.61 | VERTICAL | Peak | |

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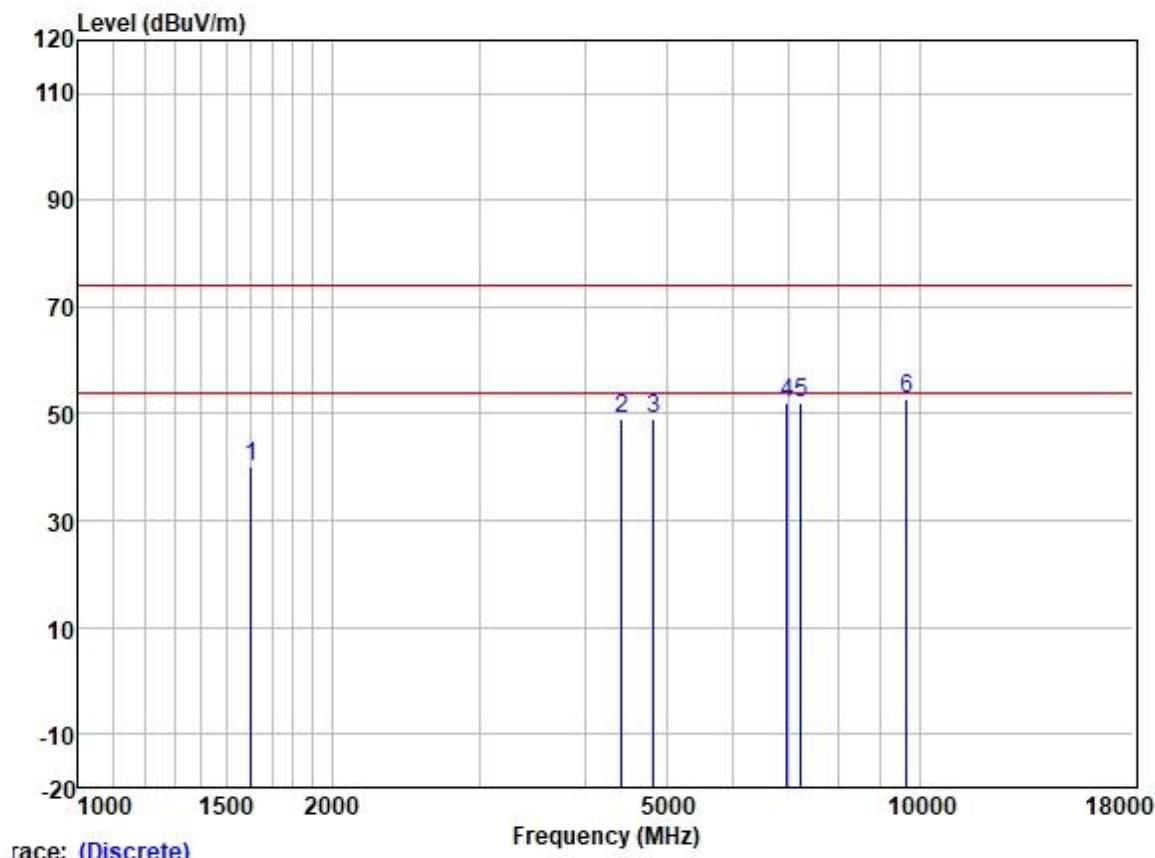
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

| Freq | ReadAntenna | | Cable Preamp | | Limit Level | Over Line | Limit Pol/Phase | Remark |
|------|-------------|-------|--------------|-------------|-------------|-----------|-----------------|------------------------|
| | MHz | dBuV | Level Factor | Loss Factor | | | | |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB |
| 1 | 1606.441 | 49.82 | 25.59 | 2.80 | 37.98 | 40.23 | 74.00 | -33.77 HORIZONTAL Peak |
| 2 | 4430.628 | 50.32 | 30.72 | 4.78 | 36.81 | 49.01 | 74.00 | -24.99 HORIZONTAL Peak |
| 3 | 4824.000 | 48.84 | 31.45 | 5.42 | 36.83 | 48.88 | 74.00 | -25.12 HORIZONTAL Peak |
| 4 | 6954.852 | 48.68 | 34.95 | 5.81 | 37.21 | 52.23 | 74.00 | -21.77 HORIZONTAL Peak |
| 5 | 7236.000 | 47.87 | 35.70 | 6.03 | 37.39 | 52.21 | 74.00 | -21.79 HORIZONTAL Peak |
| 6 | 9648.000 | 44.65 | 38.40 | 7.06 | 37.42 | 52.69 | 74.00 | -21.31 HORIZONTAL Peak |

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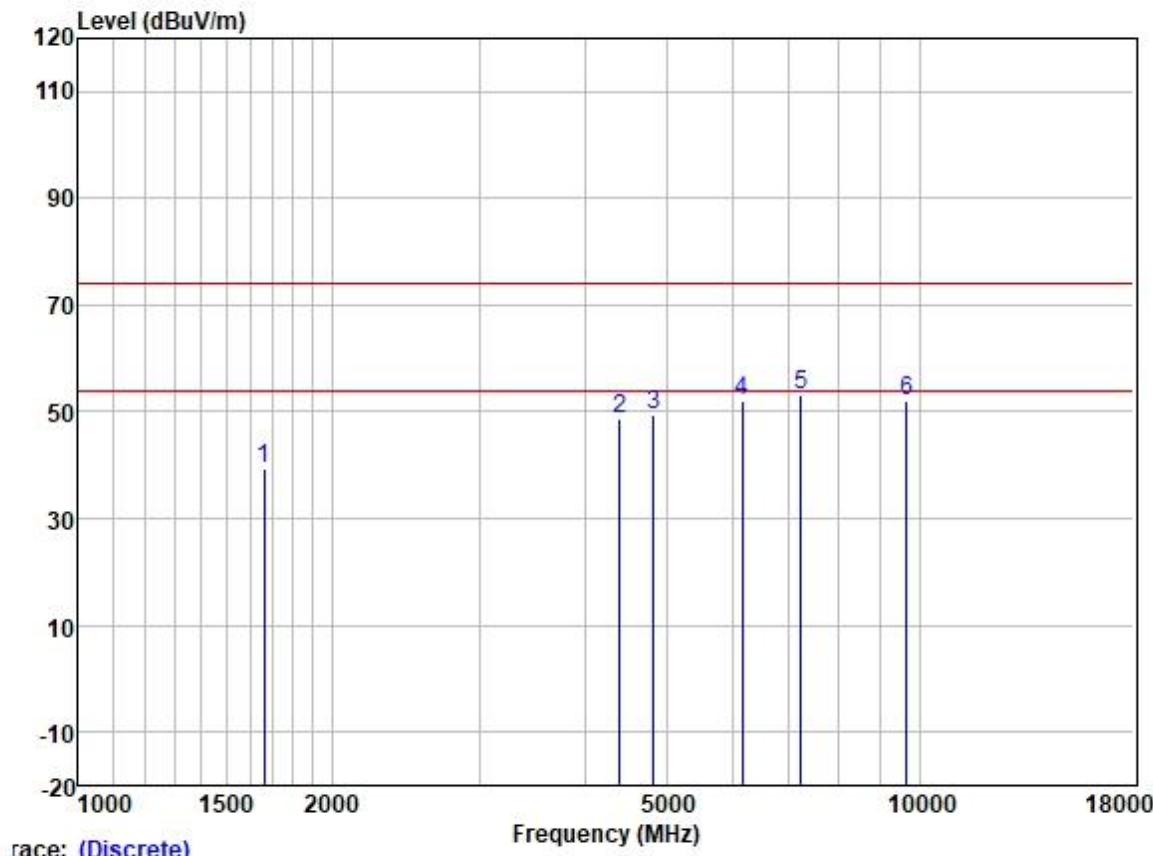
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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

| Freq | ReadAntenna | | Cable Preamp | | Limit Level | Over Line | Limit Pol/Phase | Remark | |
|------|-------------|-------|--------------|------|-------------|-----------|-----------------|--------|---------------|
| | MHz | dBuV | Factor | Loss | dB | dB | dBuV/m | dBuV/m | dB |
| 1 | 1663.137 | 48.95 | 25.65 | 2.80 | 37.91 | 39.49 | 74.00 | -34.51 | VERTICAL Peak |
| 2 | 4405.090 | 50.27 | 30.68 | 4.70 | 36.81 | 48.84 | 74.00 | -25.16 | VERTICAL Peak |
| 3 | 4824.000 | 49.28 | 31.45 | 5.42 | 36.83 | 49.32 | 74.00 | -24.68 | VERTICAL Peak |
| 4 | 6159.797 | 50.06 | 32.83 | 6.10 | 36.93 | 52.06 | 74.00 | -21.94 | VERTICAL Peak |
| 5 | 7236.000 | 48.91 | 35.70 | 6.03 | 37.39 | 53.25 | 74.00 | -20.75 | VERTICAL Peak |
| 6 | 9648.000 | 44.07 | 38.40 | 7.06 | 37.42 | 52.11 | 74.00 | -21.89 | VERTICAL Peak |

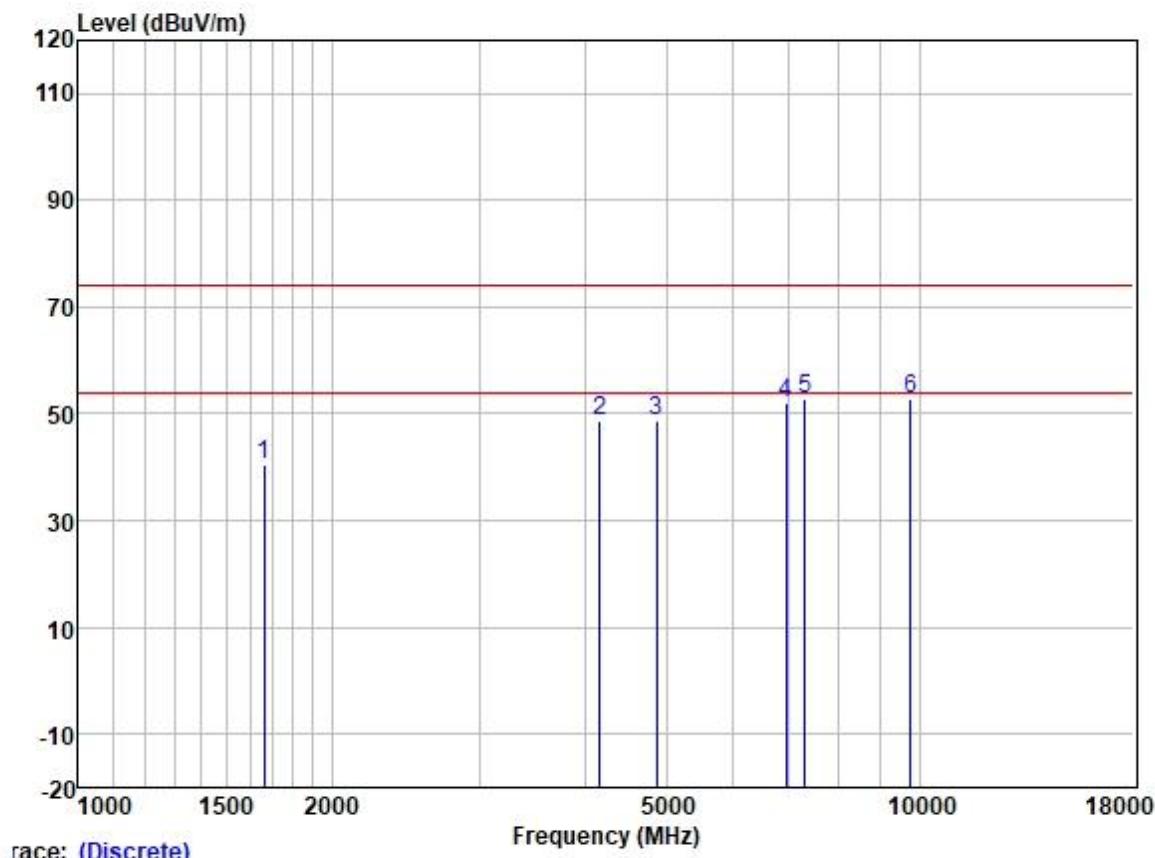
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Race: (Discrete)

| Freq | ReadAntenna | | Cable | | Preamp Loss Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|------|-------------|-------|--------------|------|-----------------------|-------|---------------|---------------|------------|--------|
| | MHz | dBuV | Level Factor | dB | | | | | | |
| 1 | 1663.137 | 49.84 | 25.65 | 2.80 | 37.91 | 40.38 | 74.00 | -33.62 | HORIZONTAL | Peak |
| 2 | 4169.698 | 50.78 | 30.09 | 4.60 | 36.80 | 48.67 | 74.00 | -25.33 | HORIZONTAL | Peak |
| 3 | 4874.000 | 48.46 | 31.54 | 5.50 | 36.84 | 48.66 | 74.00 | -25.34 | HORIZONTAL | Peak |
| 4 | 6934.778 | 48.43 | 34.92 | 5.81 | 37.19 | 51.97 | 74.00 | -22.03 | HORIZONTAL | Peak |
| 5 | 7311.000 | 48.15 | 35.93 | 6.11 | 37.42 | 52.77 | 74.00 | -21.23 | HORIZONTAL | Peak |
| 6 | 9748.000 | 44.87 | 38.50 | 7.02 | 37.41 | 52.98 | 74.00 | -21.02 | HORIZONTAL | Peak |

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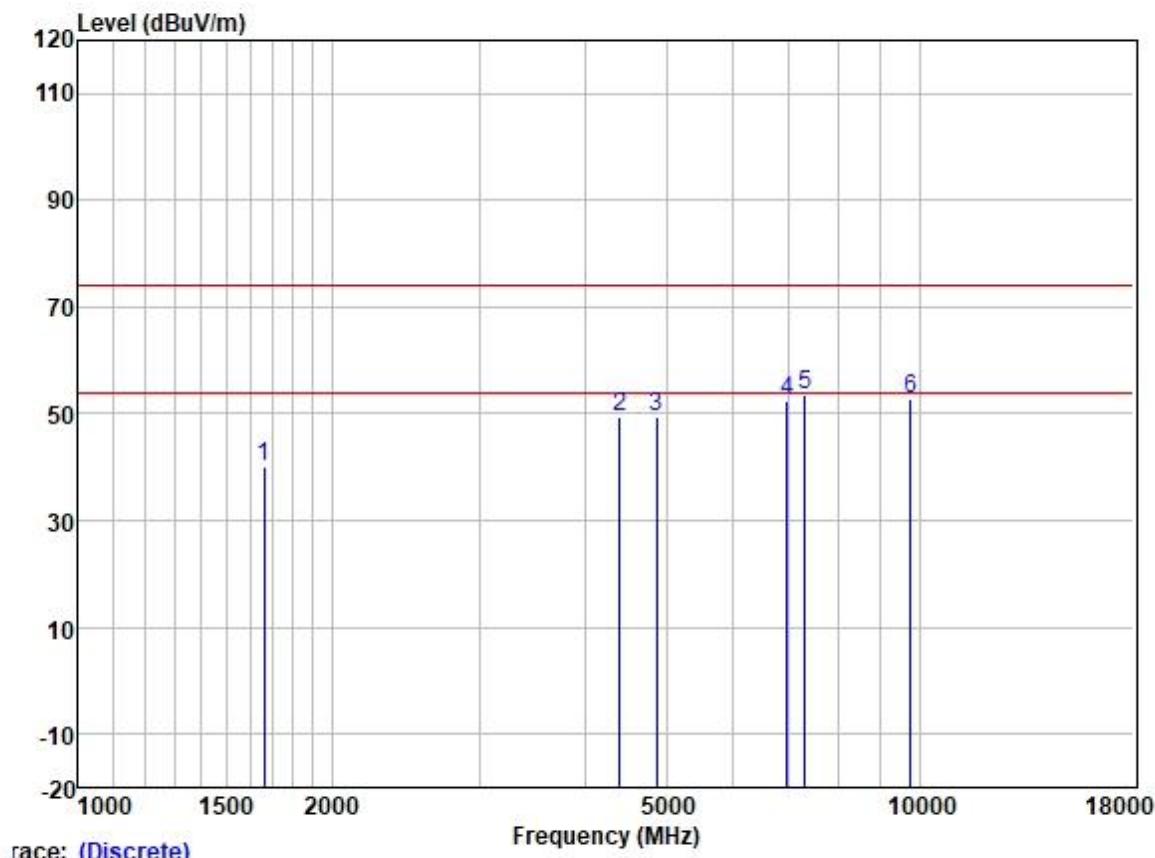
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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



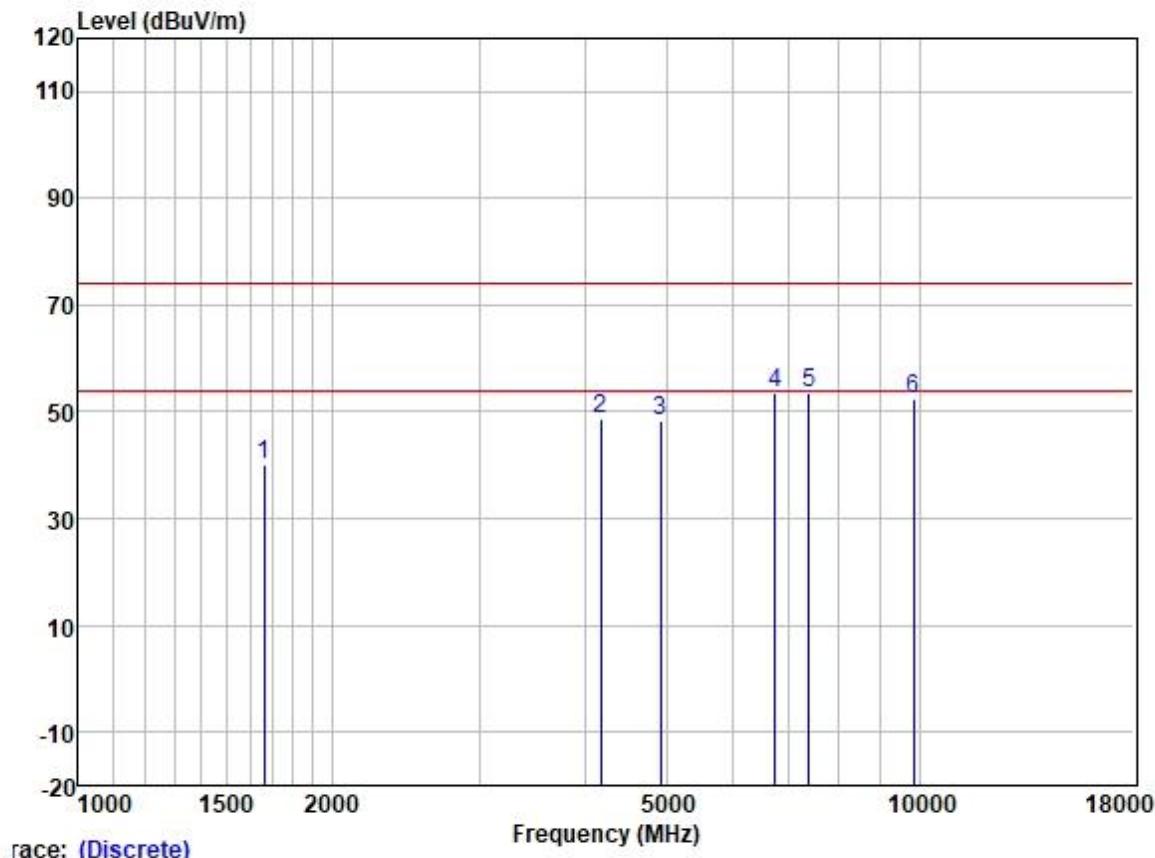
| Freq | ReadAntenna | | Cable | | Preamp | Limit | Over | Line | Limit | Pol/Phase | Remark |
|------|-------------|-------|--------|------|--------|--------|--------|--------|----------|-----------|--------|
| | MHz | Level | Factor | Loss | | | | | | | |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | | |
| 1 | 1663.137 | 49.49 | 25.65 | 2.80 | 37.91 | 40.03 | 74.00 | -33.97 | VERTICAL | Peak | |
| 2 | 4405.090 | 50.69 | 30.68 | 4.70 | 36.81 | 49.26 | 74.00 | -24.74 | VERTICAL | Peak | |
| 3 | 4874.000 | 49.16 | 31.54 | 5.50 | 36.84 | 49.36 | 74.00 | -24.64 | VERTICAL | Peak | |
| 4 | 6954.852 | 48.83 | 34.95 | 5.81 | 37.21 | 52.38 | 74.00 | -21.62 | VERTICAL | Peak | |
| 5 | 7311.000 | 49.04 | 35.93 | 6.11 | 37.42 | 53.66 | 74.00 | -20.34 | VERTICAL | Peak | |
| 6 | 9748.000 | 44.65 | 38.50 | 7.02 | 37.41 | 52.76 | 74.00 | -21.24 | VERTICAL | Peak | |

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



| Race: (Discrete) | ReadAntenna | | Cable | | Preamp | | Limit | Over | Limit | Pol/Phase | Remark |
|------------------|-------------|-------|--------|------|--------|--------|--------|--------|------------|-----------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | | | | | |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | | |
| 1 | 1663.137 | 49.56 | 25.65 | 2.80 | 37.91 | 40.10 | 74.00 | -33.90 | HORIZONTAL | Peak | |
| 2 | 4181.768 | 50.64 | 30.12 | 4.60 | 36.80 | 48.56 | 74.00 | -25.44 | HORIZONTAL | Peak | |
| 3 | 4924.000 | 48.00 | 31.62 | 5.60 | 36.84 | 48.38 | 74.00 | -25.62 | HORIZONTAL | Peak | |
| 4 | 6737.207 | 50.16 | 34.50 | 5.82 | 37.09 | 53.39 | 74.00 | -20.61 | HORIZONTAL | Peak | |
| 5 | 7386.000 | 48.56 | 36.17 | 6.19 | 37.45 | 53.47 | 74.00 | -20.53 | HORIZONTAL | Peak | |
| 6 | 9848.000 | 44.10 | 38.58 | 6.99 | 37.41 | 52.26 | 74.00 | -21.74 | HORIZONTAL | Peak | |

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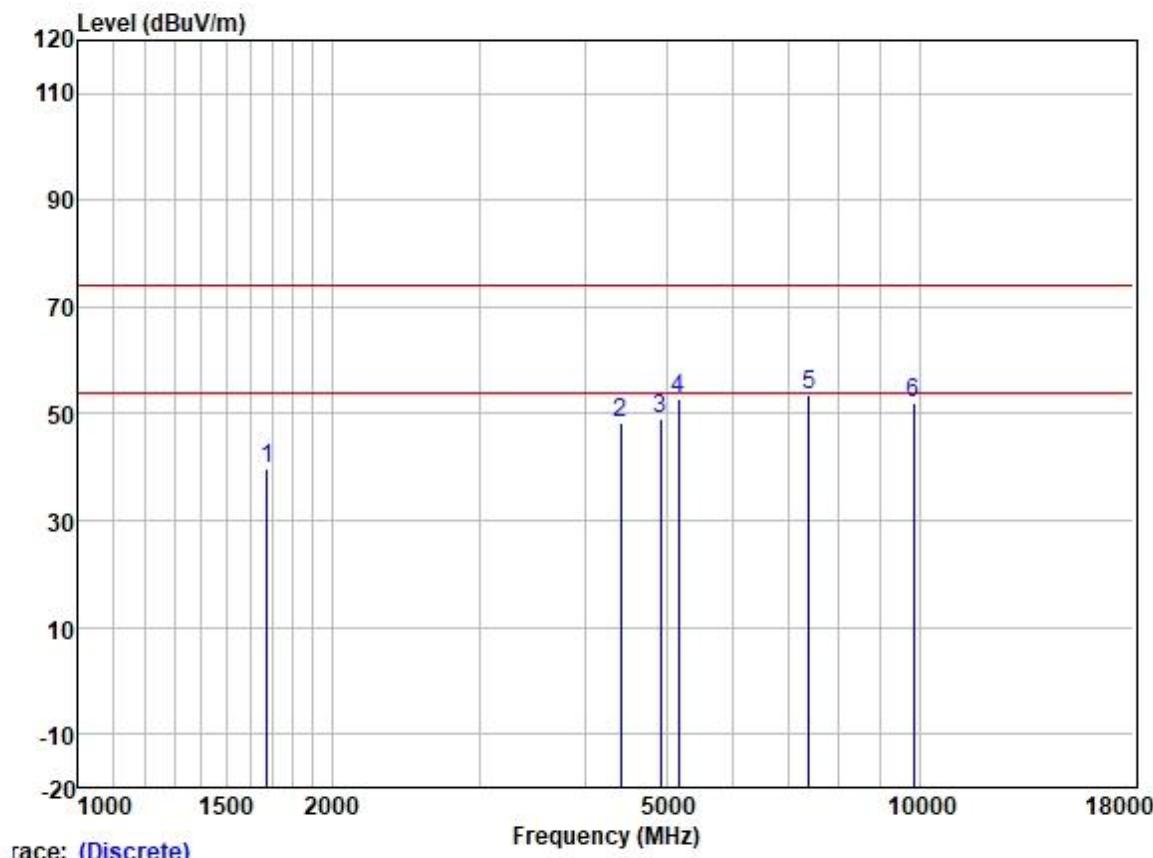
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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



| Race: (Discrete) | ReadAntenna | | Cable | | Preamp | | Limit | Over | Line | Limit | Pol/Phase | Remark |
|------------------|-------------|-------|--------|------|--------|--------|--------|--------|----------|-------|-----------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | | | | | | |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | | | |
| 1 | 1677.621 | 49.22 | 25.68 | 2.80 | 37.91 | 39.79 | 74.00 | -34.21 | VERTICAL | Peak | | |
| 2 | 4417.841 | 49.77 | 30.70 | 4.74 | 36.81 | 48.40 | 74.00 | -25.60 | VERTICAL | Peak | | |
| 3 | 4924.000 | 48.71 | 31.62 | 5.60 | 36.84 | 49.09 | 74.00 | -24.91 | VERTICAL | Peak | | |
| 4 | 5164.102 | 52.18 | 31.73 | 5.61 | 36.87 | 52.65 | 74.00 | -21.35 | VERTICAL | Peak | | |
| 5 | 7386.000 | 48.56 | 36.17 | 6.19 | 37.45 | 53.47 | 74.00 | -20.53 | VERTICAL | Peak | | |
| 6 | 9848.000 | 43.90 | 38.58 | 6.99 | 37.41 | 52.06 | 74.00 | -21.94 | VERTICAL | Peak | | |

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8 Test Setup Photo

Refer to Appendix - Test Setup Photos for GZCR2209001154AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2209001154AT

- End of the Report -



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