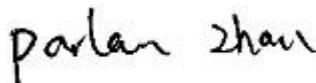


TEST REPORT

Application No.:	SHCR2201000300HS
FCC ID:	2AMH4SC20A
IC:	29364-SC20A
Applicant:	Motocaddy Ltd.
Address of Applicant:	Units 15 to 18, Stansted Distribution Centre Start Hill Great Hallingbury Hertfordshire CM22 7DG United Kingdom
Manufacturer:	Motocaddy Ltd.
Address of Manufacturer:	Units 15 to 18, Stansted Distribution Centre Start Hill Great Hallingbury Hertfordshire CM22 7DG United Kingdom
Equipment Under Test (EUT):	
EUT Name:	LTE Module
Model No.:	SC20-A
HVIN:	SC20-A (REV1)
Standard(s) :	47 CFR Part 15, Subpart C 15.247 RSS-247 Issue 2, February 2017 RSS-Gen Issue 5 April 2018 Amendment 2
Date of Receipt:	2022-11-09
Date of Test:	2022-11-10 to 2022-11-17
Date of Issue:	2022-12-21
Test Result:	Pass*

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



Parlam Zhan
Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2022-12-21	/

Authorized for issue by:			
			
<hr/> Wade Zhang/Project Engineer			
			
<hr/> Parlam Zhan/Reviewer			

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Sample(s) are retained for 90 days only.
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2 Test Summary

Radio Spectrum Technical Requirement				
Item	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A	Customer Declaration

N/A: Not applicable

Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass

Remark: A new optional BT&WIFI antenna added to the original, Radiated Spurious Emission tests were performed to verify RF compliance, other test data reference to original module report FR741007C.

BT&WIFI Antenna	New Antenna	Original Antenna
Antenna Type	FPC	Dipole
Gain (2.4GHz)	2.2dBi	3dBi
Gain (5GHz)	3.8dBi	4dBi

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.8V By test Board
Test Voltage:	DC 3.8V
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
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;802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	FPC Antenna
Antenna Gain:	2.2 dBi (Provided by manufacturer)
Date Rate:	802.11b:1/2/5.5./11Mbps 802.11g:6/9/12/18/24/36/48/54Mbps 802.11n:MCS0-MCS7
S/N:	ESN 8901170327
Firmware Version:	SC20ASAR04A03H8G

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
DC power supply	HP	HP6674A	-
Laptop	LENOVO	L460	-
SecureCRT	VanDyke	V 6.2.0	-
Serial port adapter plate	-	Test Plate 3	-

4.3 Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)
1	20	29	30
6	20	29	30
11	20	29	30
Channel	802.11n(HT40)		
3	30		
6	30		
9	30		

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4.4 Measurement Uncertainty & Decision Rule

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty cycle	0.4%
4	Occupied Bandwidth	3%
5	RF conducted power	0.6dB
6	RF power density	2.9dB
7	Conducted Spurious emissions	0.75dB
8	RF Radiated power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious emission test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-6GHz)
		5.4dB (6GHz-18GHz)
10	Temperature test	1°C
11	Humidity test	3%
12	Supply voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

- SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).
- SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

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4.6 Test Facility

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

- **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

- **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

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5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2021-12-20	2022-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2021-12-20	2022-12-19
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2021-12-20	2022-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2021-05-07	2023-05-06
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022/8/11	2024-08-10
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2022-08-02	2023-08-01
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2021-12-20	2022-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2022-01-07	2023-01-06
Test software	ESE	E3	Version: 6.111221a	/	/

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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 FPC antenna and no consideration of replacement. The best case gain of the antenna is 2.2 dBi.

Antenna location: Refer to internal photo.

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7 Radio Spectrum Matter Test Results

7.1 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

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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.9 °C Humidity: 65.4 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), 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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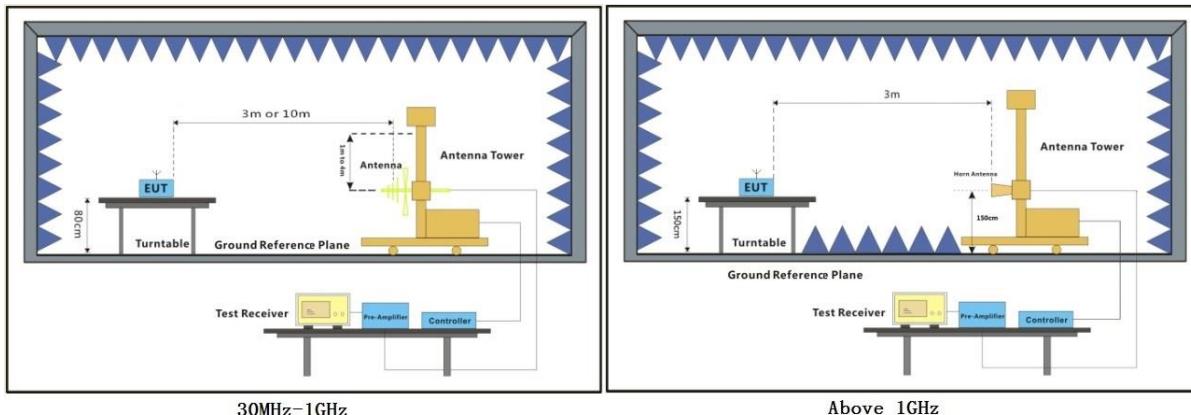
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7.1.3 Test Setup Diagram



7.1.4 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.



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EEC EMC Lab

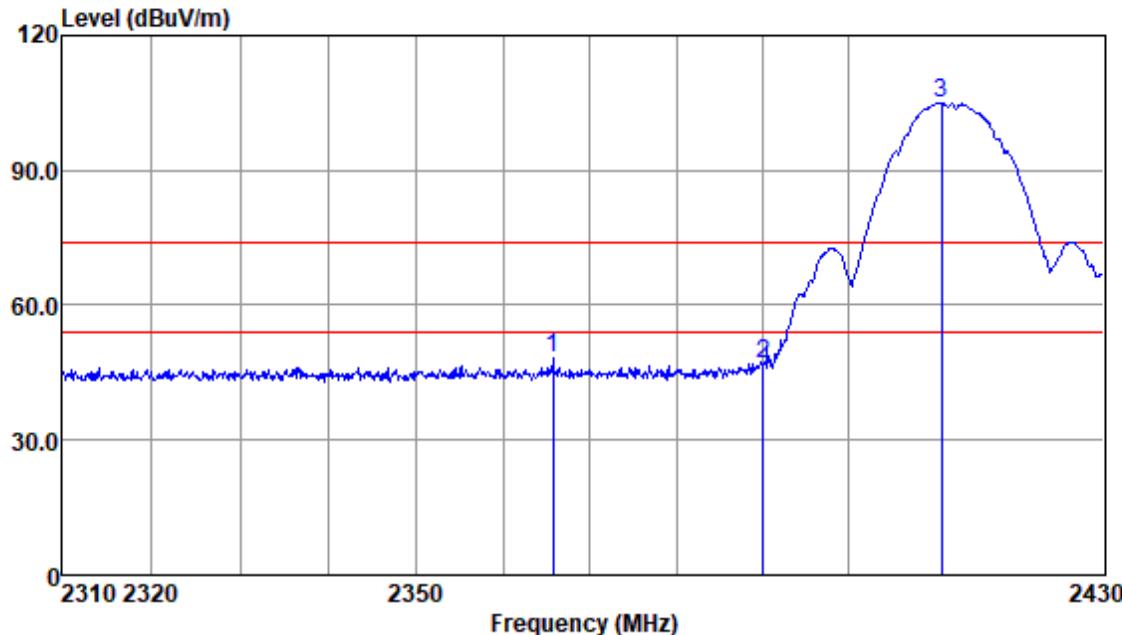
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

**Antenna Polarity :HORIZONTAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2365.76	50.00	28.68	4.56	35.16	48.08	74.00	-25.92	Peak
2390.00	48.80	28.80	4.60	35.18	47.02	74.00	-26.98	Peak
2410.88	106.81	28.89	4.64	35.20	105.14	74.00	31.14	Peak

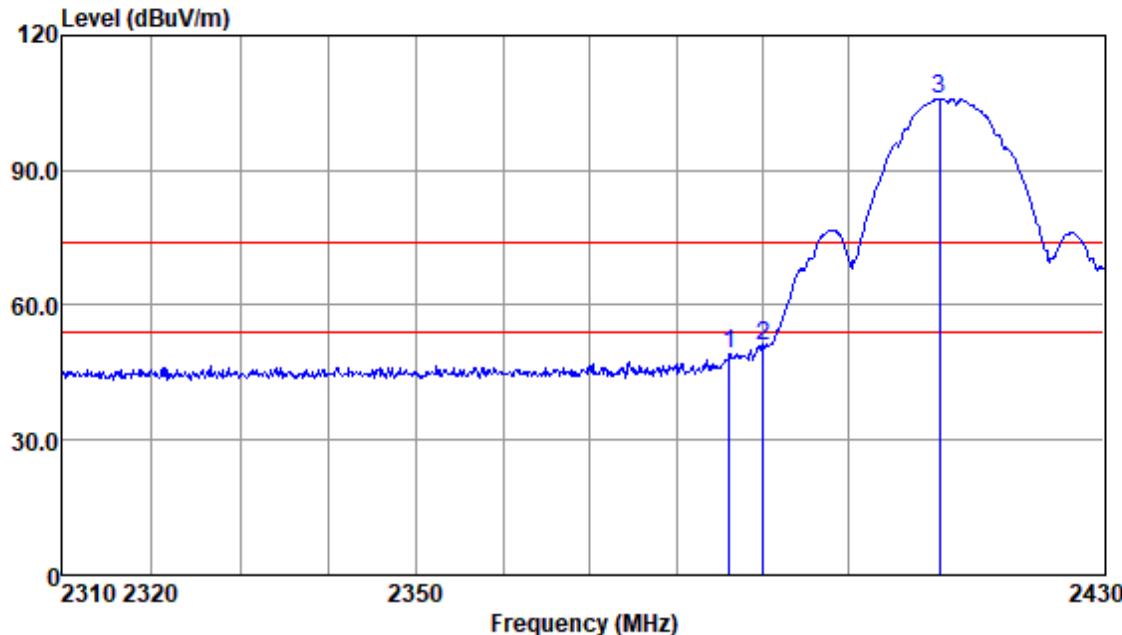
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2386.10	50.91	28.80	4.60	35.18	49.13	74.00	-24.87	Peak
2390.00	52.63	28.80	4.60	35.18	50.85	74.00	-23.15	Peak
2410.63	107.70	28.89	4.64	35.20	106.03	74.00	32.03	Peak

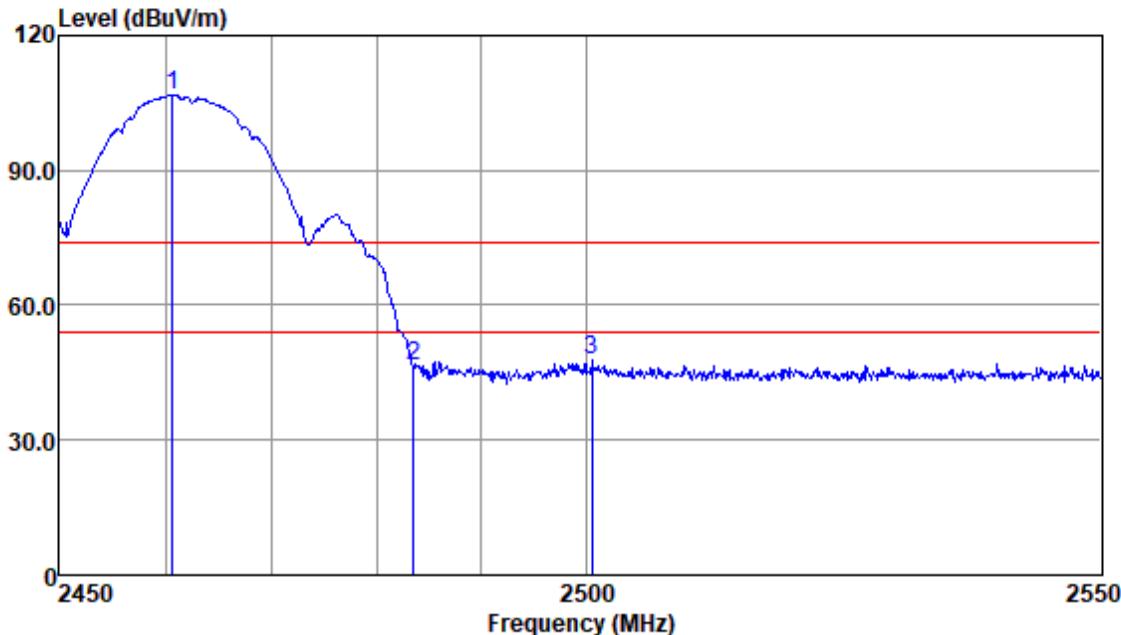
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2460.61	108.18	29.05	4.74	35.24	106.73	74.00	32.73	Peak
2483.50	47.87	29.09	4.78	35.26	46.48	74.00	-27.52	Peak
2500.60	48.96	29.12	4.80	35.27	47.61	74.00	-26.39	Peak

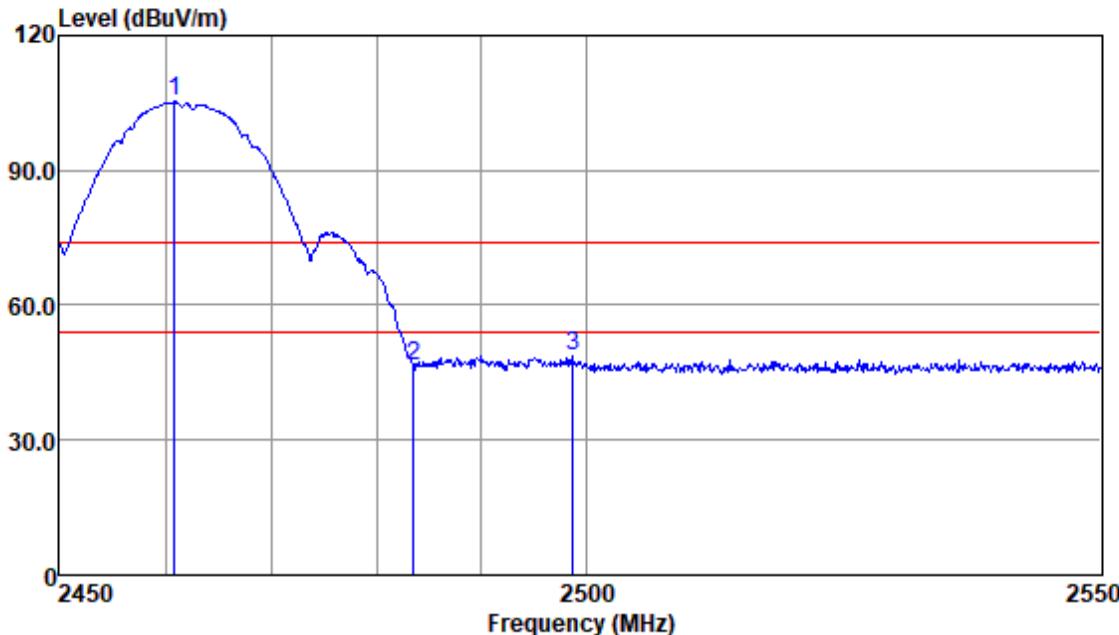
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2460.81	106.65	29.05	4.74	35.24	105.20	74.00	31.20	Peak
2483.50	47.84	29.09	4.78	35.26	46.45	74.00	-27.55	Peak
2498.80	50.04	29.12	4.80	35.27	48.69	74.00	-25.31	Peak

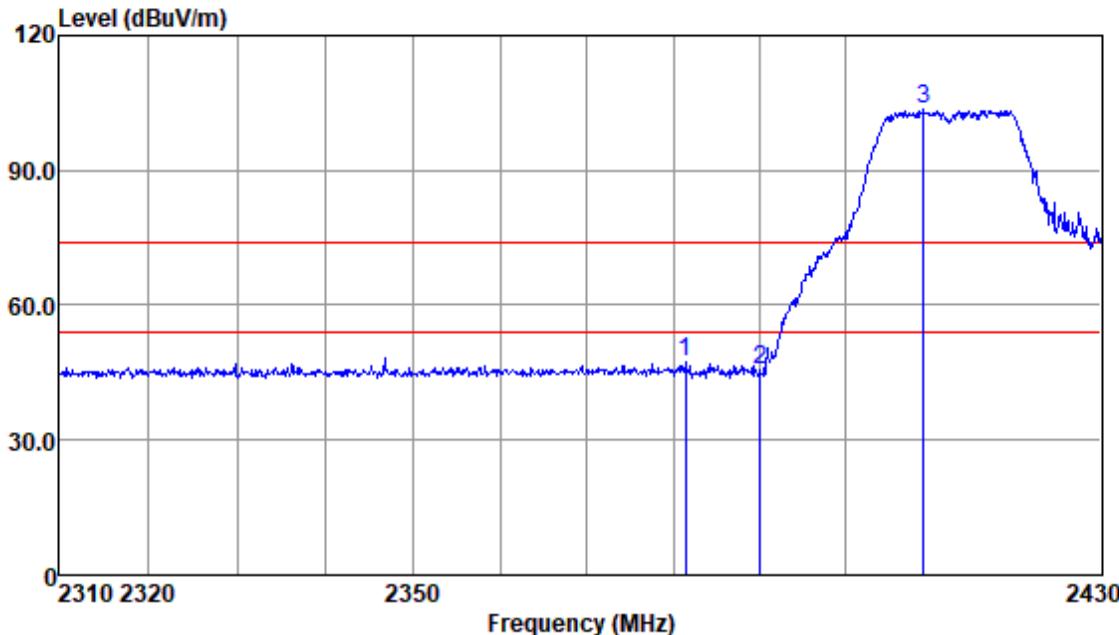
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2381.39	49.05	28.76	4.59	35.17	47.23	74.00	-26.77	Peak
2390.00	47.24	28.80	4.60	35.18	45.46	74.00	-28.54	Peak
2409.05	105.13	28.89	4.64	35.20	103.46	74.00	29.46	Peak

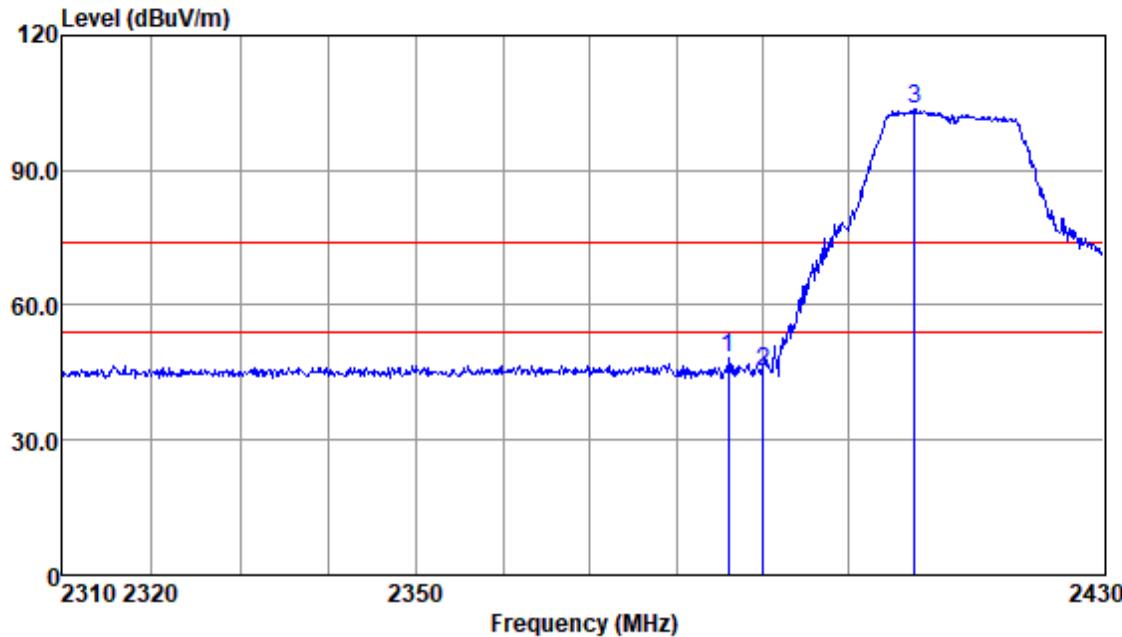
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2385.98	50.06	28.80	4.60	35.18	48.28	74.00	-25.72	Peak
2390.00	46.88	28.80	4.60	35.18	45.10	74.00	-28.90	Peak
2407.71	105.24	28.89	4.64	35.20	103.57	74.00	29.57	Peak

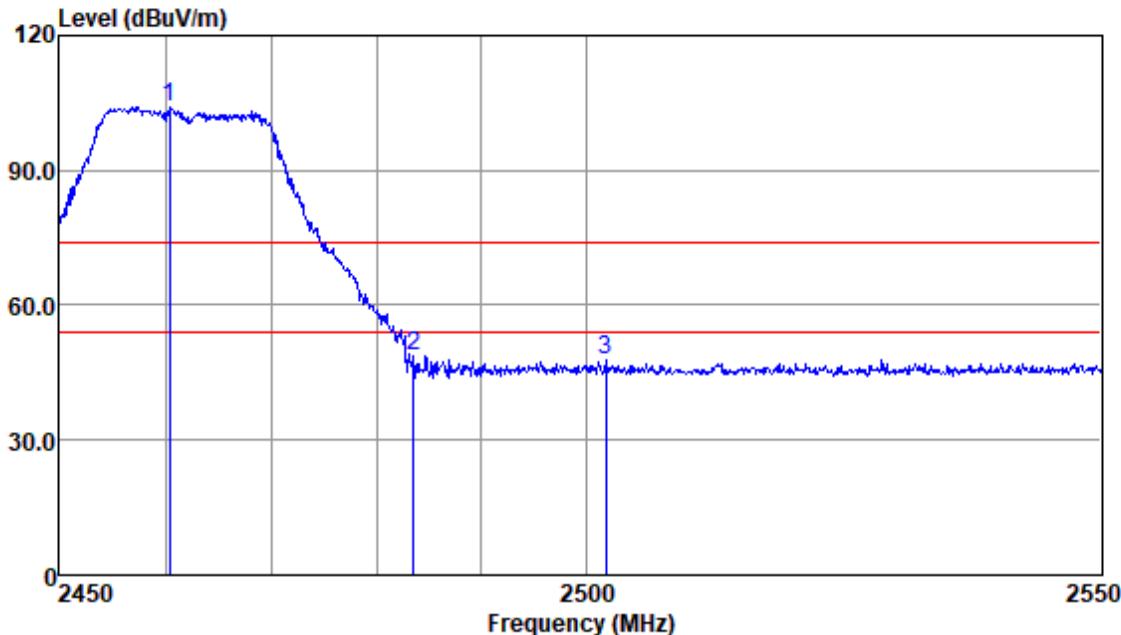
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2460.41	105.55	29.04	4.73	35.24	104.08	74.00	30.08	Peak
2483.50	50.04	29.09	4.78	35.26	48.65	74.00	-25.35	Peak
2501.90	49.26	29.12	4.80	35.27	47.91	74.00	-26.09	Peak

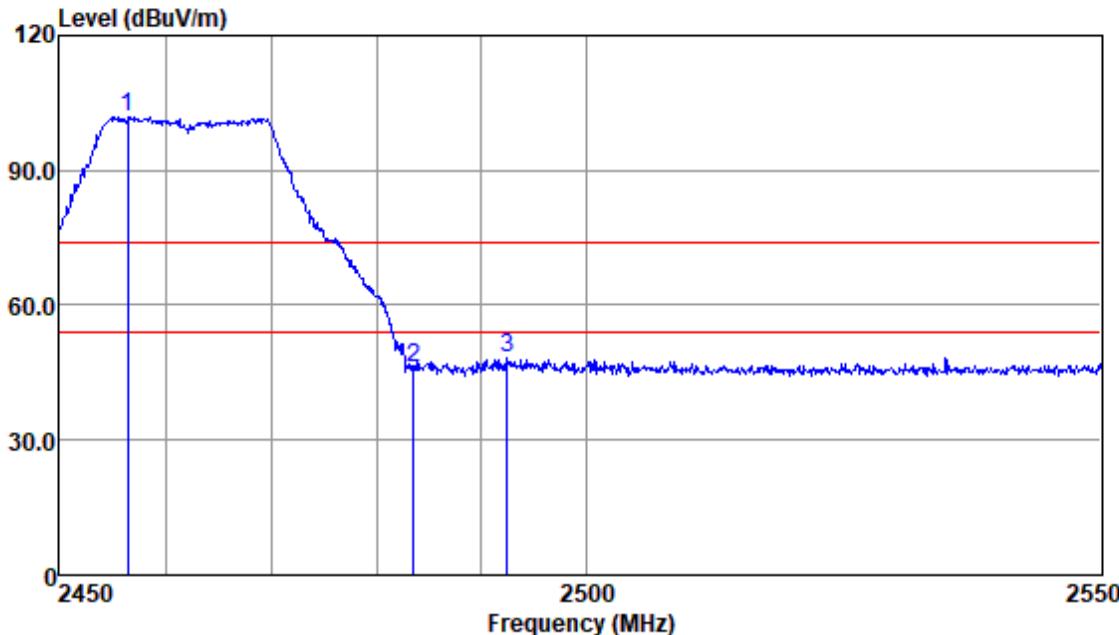
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2456.38	103.39	29.04	4.73	35.24	101.92	74.00	27.92	Peak
2483.50	47.30	29.09	4.78	35.26	45.91	74.00	-28.09	Peak
2492.51	49.44	29.10	4.79	35.26	48.07	74.00	-25.93	Peak

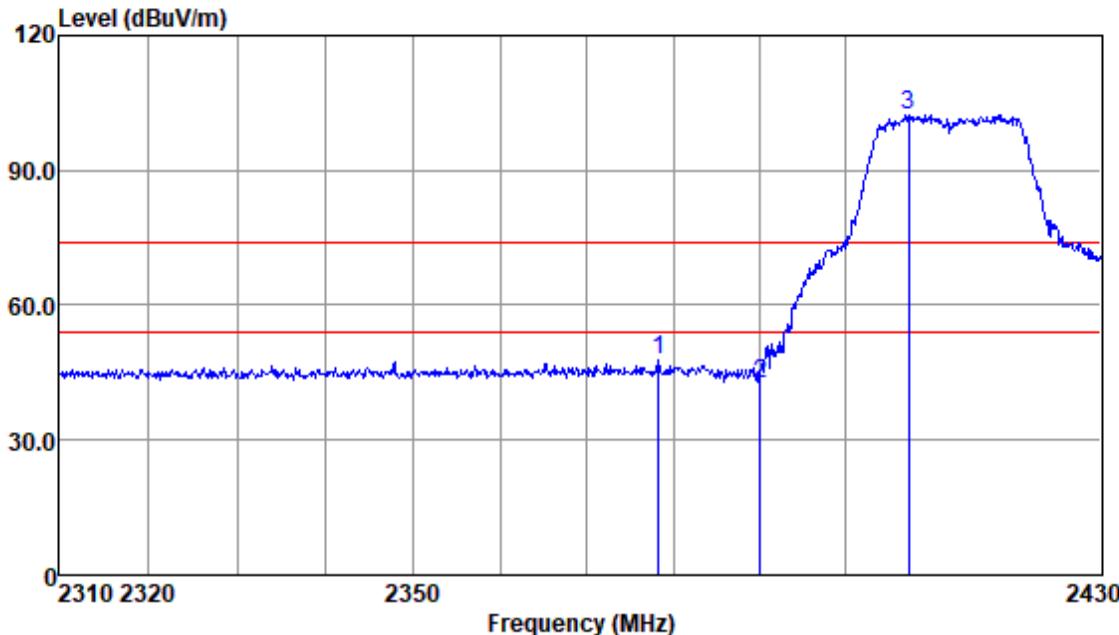
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2378.26	49.45	28.76	4.59	35.17	47.63	74.00	-26.37	Peak
2390.00	44.46	28.80	4.60	35.18	42.68	74.00	-31.32	Peak
2407.34	103.95	28.89	4.64	35.20	102.28	74.00	28.28	Peak

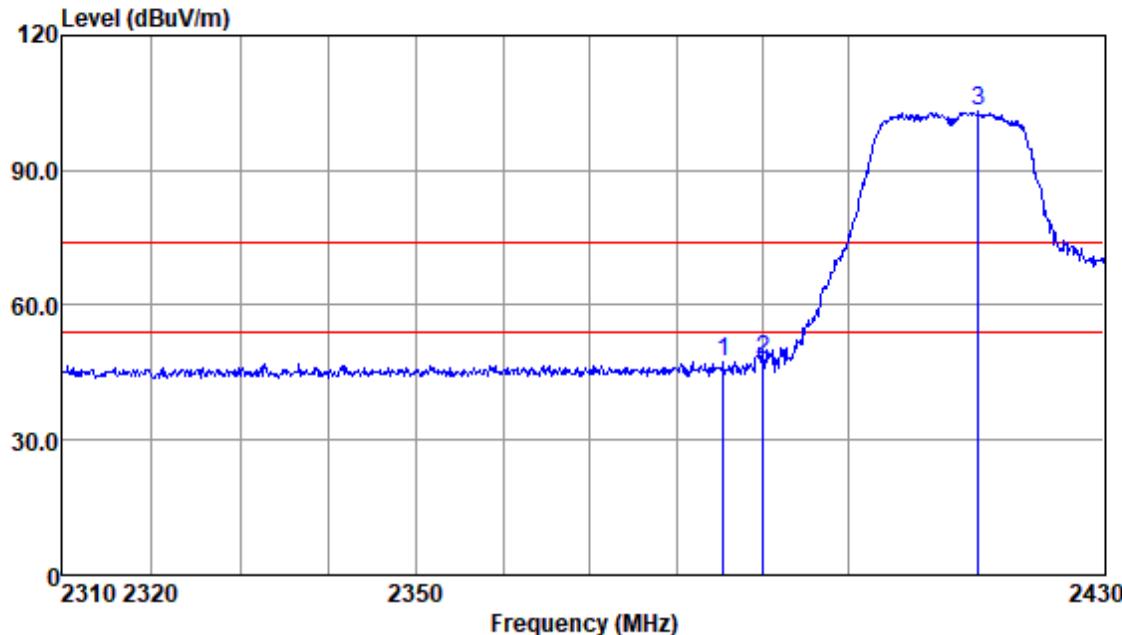
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2385.37	49.21	28.80	4.60	35.18	47.43	74.00	-26.57	Peak
2390.00	49.62	28.80	4.60	35.18	47.84	74.00	-26.16	Peak
2415.16	104.63	28.90	4.65	35.20	102.98	74.00	28.98	Peak

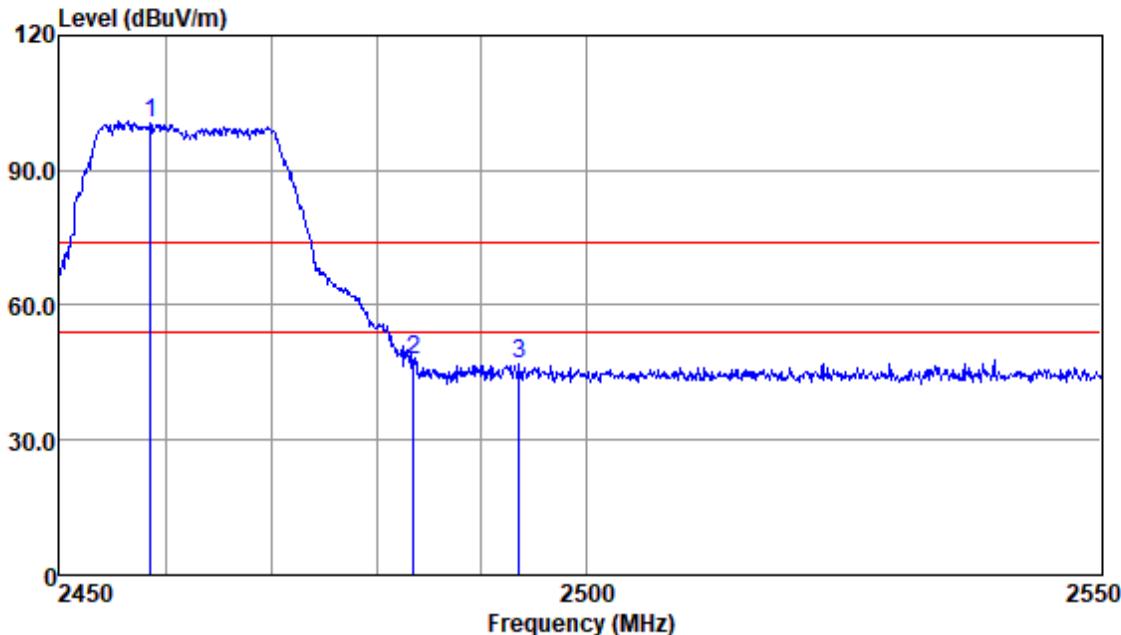
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2458.54	102.18	29.04	4.73	35.24	100.71	74.00	26.71	Peak
2483.50	49.33	29.09	4.78	35.26	47.94	74.00	-26.06	Peak
2493.61	48.13	29.10	4.79	35.26	46.76	74.00	-27.24	Peak

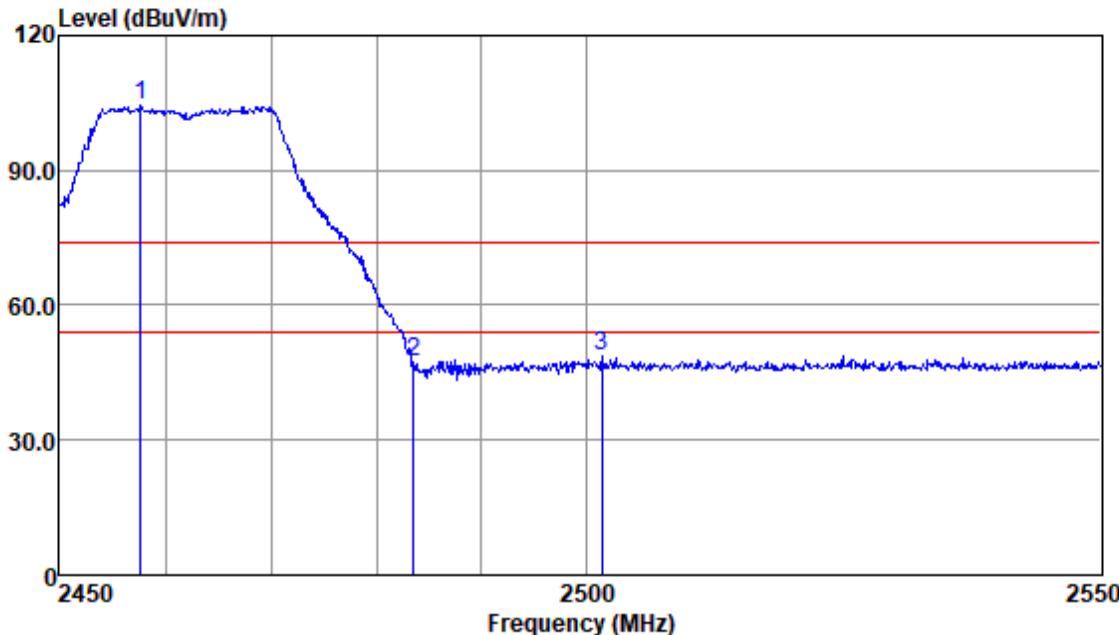
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2457.66	106.18	29.04	4.73	35.24	104.71	74.00	30.71	Peak
2483.50	48.57	29.09	4.78	35.26	47.18	74.00	-26.82	Peak
2501.60	49.96	29.12	4.80	35.27	48.61	74.00	-25.39	Peak

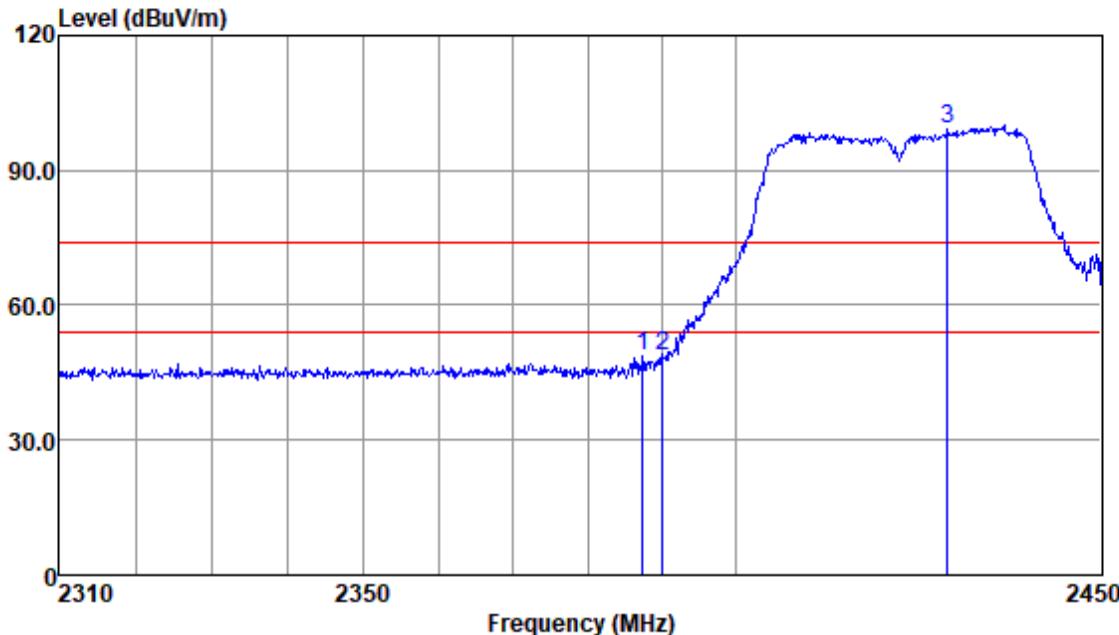
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2387.38	50.35	28.80	4.60	35.18	48.57	74.00	-25.43	Peak
2390.00	50.38	28.80	4.60	35.18	48.60	74.00	-25.40	Peak
2428.76	100.66	28.96	4.67	35.21	99.08	74.00	25.08	Peak

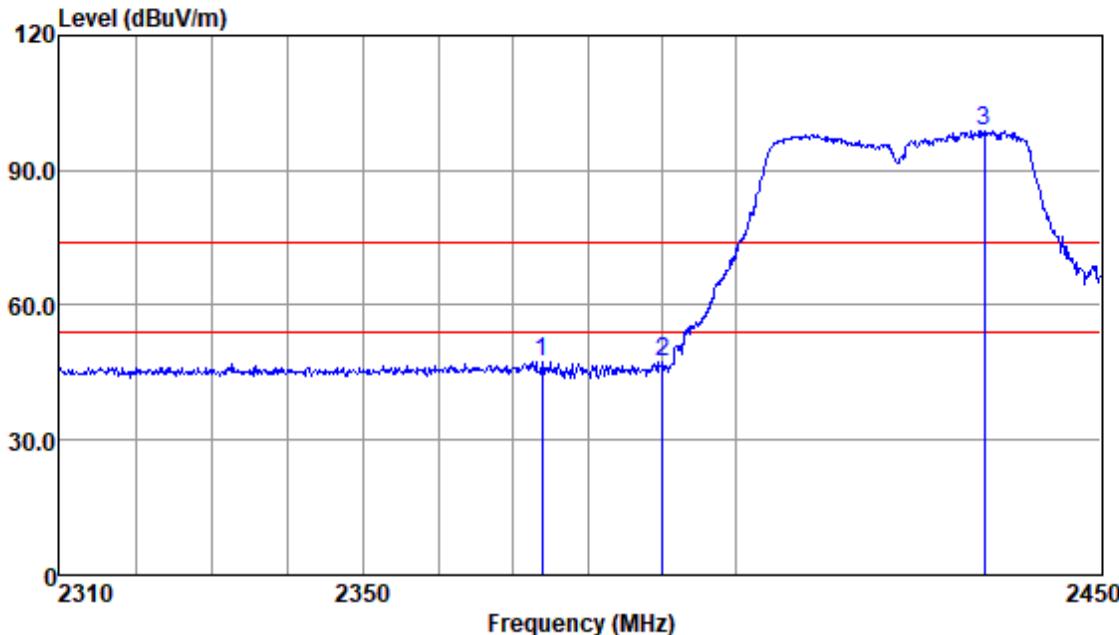
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

**Antenna Polarity :VERTICAL**

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2373.80	49.16	28.71	4.57	35.17	47.27	74.00	-26.73	Peak
2390.00	49.05	28.80	4.60	35.18	47.27	74.00	-26.73	Peak
2433.91	100.32	28.97	4.69	35.22	98.76	74.00	24.76	Peak

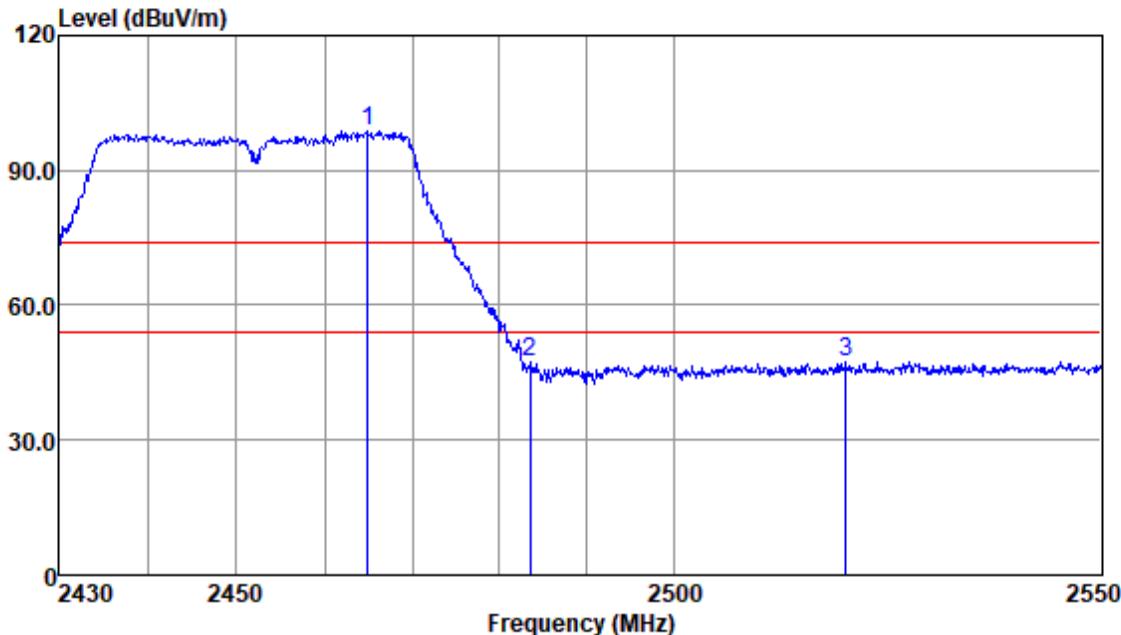
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2464.92	100.33	29.05	4.74	35.24	98.88	74.00	24.88	Peak
2483.50	48.98	29.09	4.78	35.26	47.59	74.00	-26.41	Peak
2520.06	48.76	29.13	4.84	35.30	47.43	74.00	-26.57	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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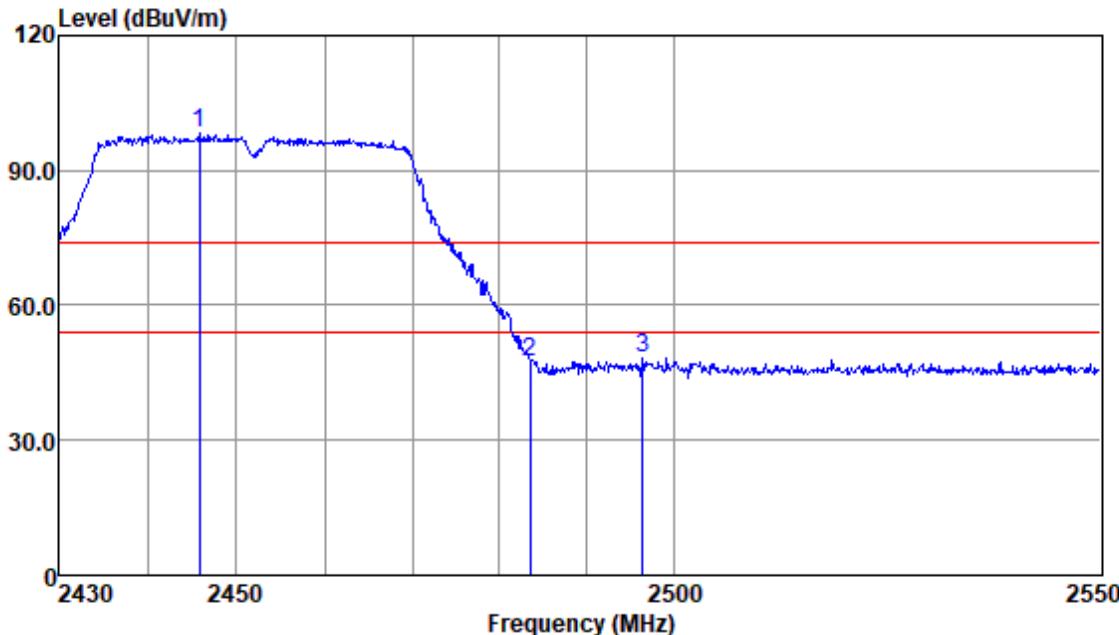


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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2445.75	99.70	28.99	4.70	35.22	98.17	74.00	24.17	Peak
2483.50	48.98	29.09	4.78	35.26	47.59	74.00	-26.41	Peak
2496.49	49.68	29.12	4.80	35.27	48.33	74.00	-25.67	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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7.2 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

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.9 °C

Humidity: 65.5 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), 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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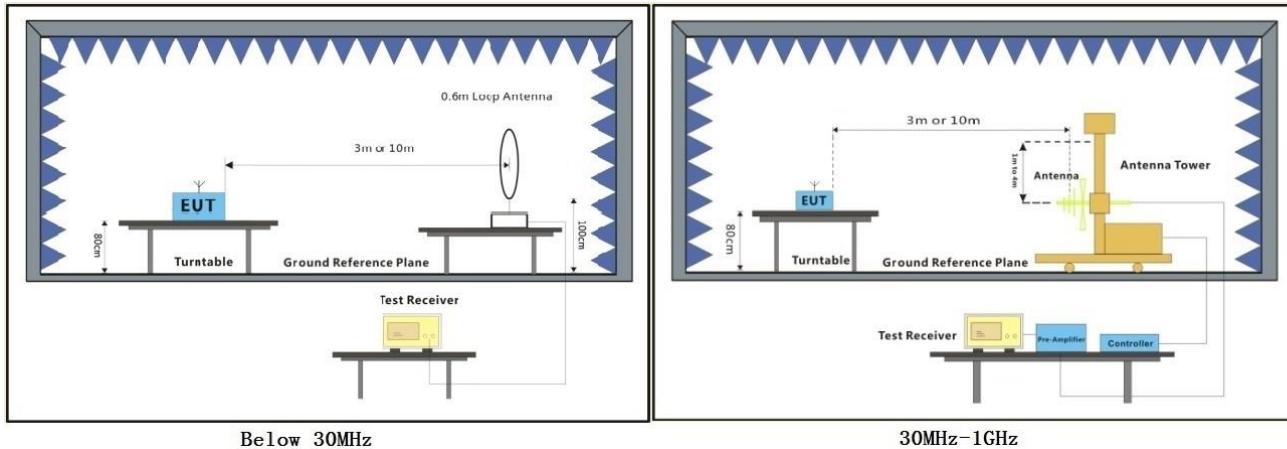


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7.2.3 Test Setup Diagram



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. 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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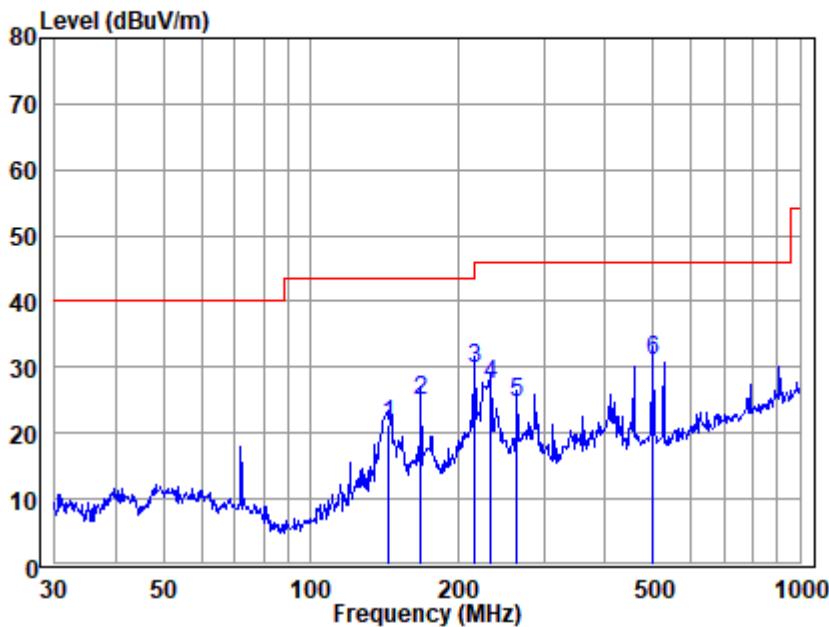
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Test Mode: 02; Polarity: Horizontal



Antenna Polarity :Horizontal
EUT/Project :0300HS
Test mode :02

Freq MHz	Read Level dBuV	Antenna Factor	Cable Loss	Preamp Factor	Emission Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
1 144.25	37.35	13.14	2.88	31.94	21.43	43.50	-22.07	QP
2 168.00	41.23	12.84	3.20	32.27	25.00	43.50	-18.50	QP
3 216.61	48.75	9.92	3.65	32.55	29.77	46.00	-16.23	QP
4 233.76	44.98	10.89	3.78	32.39	27.26	46.00	-18.74	QP
5 264.09	40.94	12.27	4.13	32.73	24.61	46.00	-21.39	QP
6 501.00	41.21	17.88	5.60	33.68	31.01	46.00	-14.99	QP

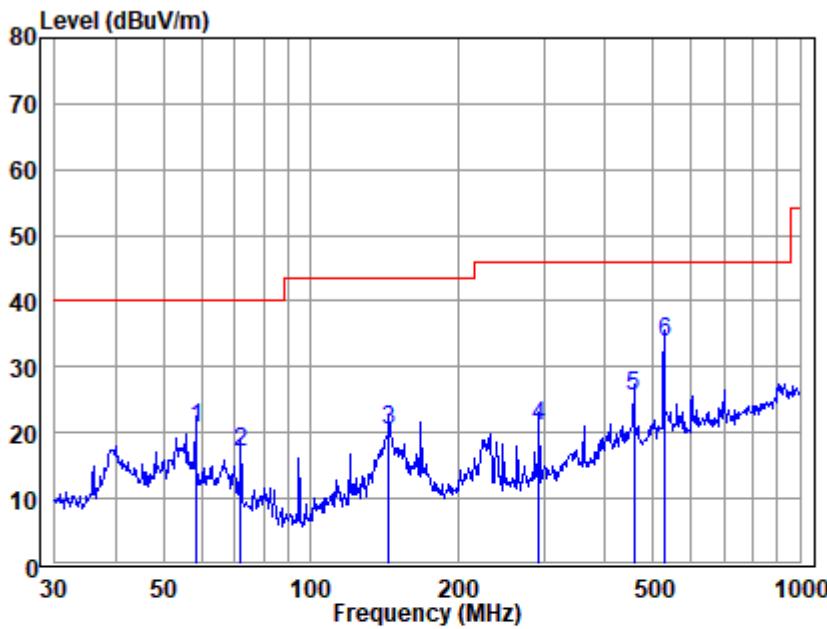
Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Test Mode: 02; Polarity: Vertical



Antenna Polarity :Vertical
 EUT/Project :0300HS
 Test mode :02

Freq MHz	Read Level dBuV	Antenna Factor dB/m	Cable Loss dB	Preamp Factor dB	Emission Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
1 58.08	37.56	13.27	1.78	32.00	20.61	40.00	-19.39	Peak
2 71.90	35.58	11.09	2.05	31.80	16.92	40.00	-23.08	Peak
3 144.25	36.39	13.14	2.88	31.94	20.47	43.50	-23.03	Peak
4 292.34	36.04	13.39	4.33	32.67	21.09	46.00	-24.91	Peak
5 457.21	36.50	17.15	5.36	33.59	25.42	46.00	-20.58	Peak
6 527.12	43.48	18.24	5.80	33.80	33.72	46.00	-12.28	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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7.3 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

7.3.1 E.U.T. Operation

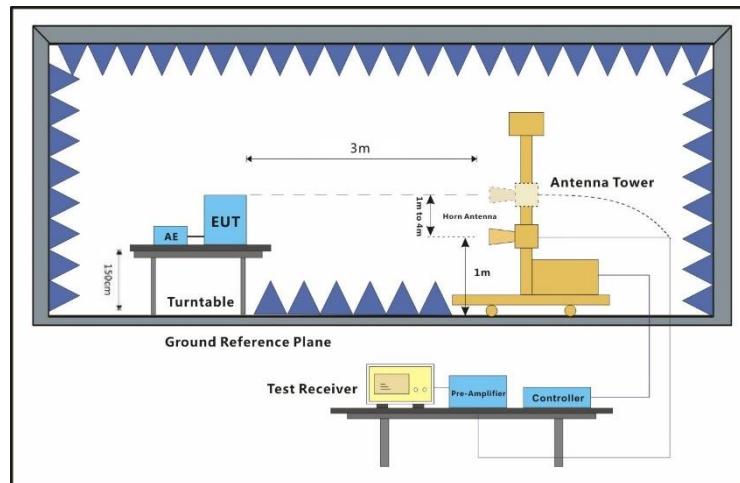
Operating Environment:

Temperature: 20.9 °C Humidity: 65.4 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), 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



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7.3.4 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:

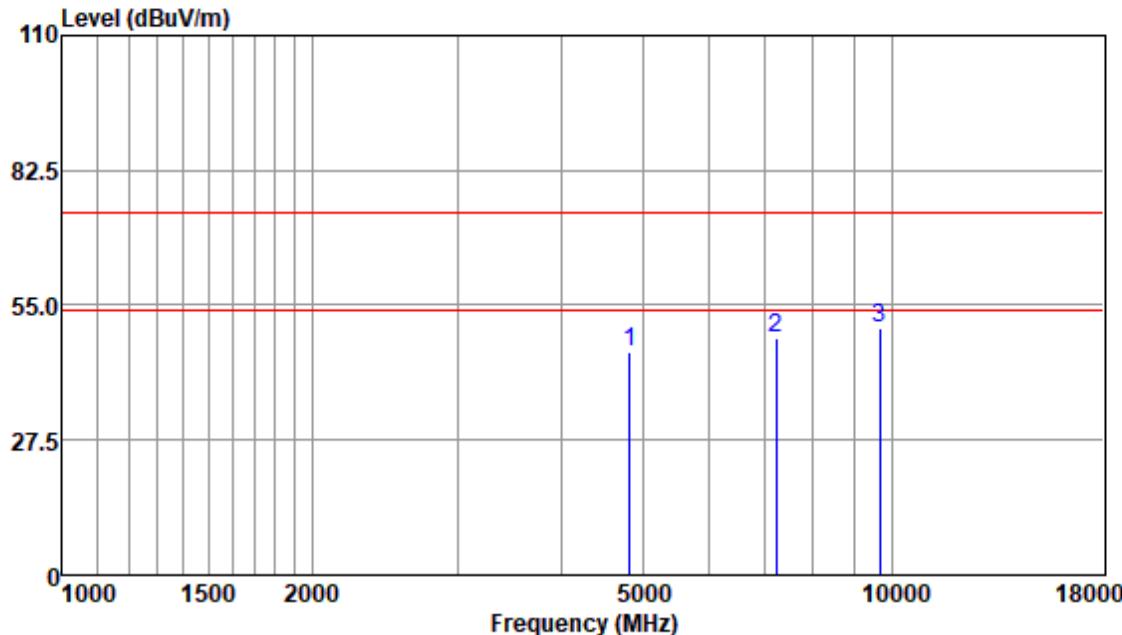
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from 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.

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4824.00	41.02	33.60	7.46	36.79	45.29	74.00	-28.71	Peak
7236.00	39.55	36.29	7.80	35.50	48.14	74.00	-25.86	Peak
9648.00	37.50	37.71	8.57	33.56	50.22	74.00	-23.78	Peak

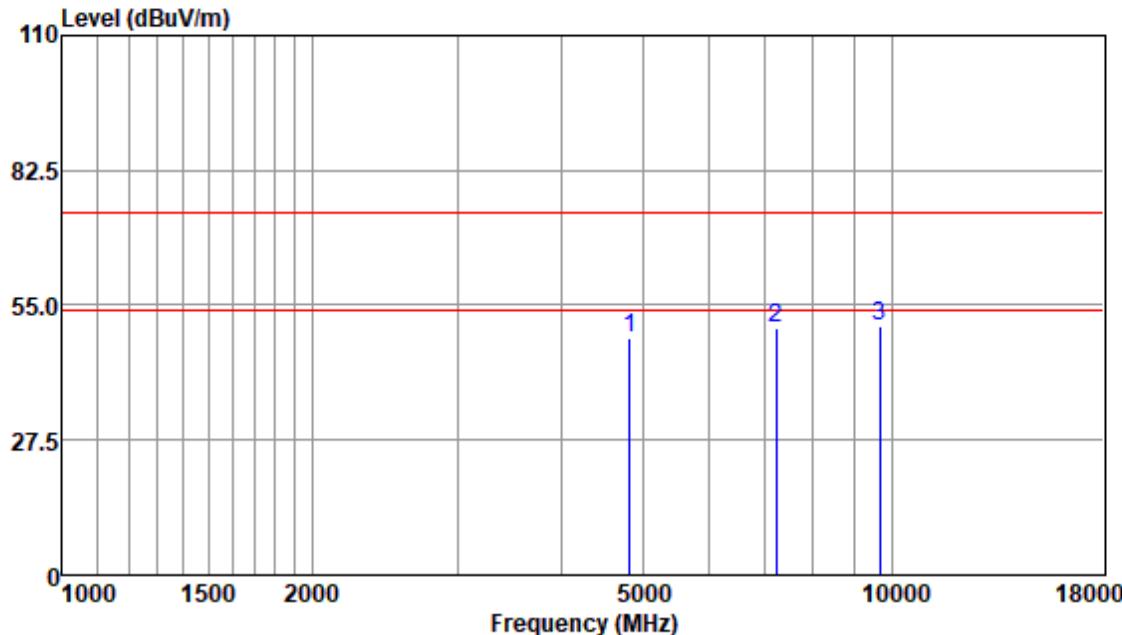
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	44.01	33.60	7.46	36.79	48.28	74.00	-25.72	Peak
7236.00	41.56	36.29	7.80	35.50	50.15	74.00	-23.85	Peak
9648.00	37.83	37.71	8.57	33.56	50.55	74.00	-23.45	Peak

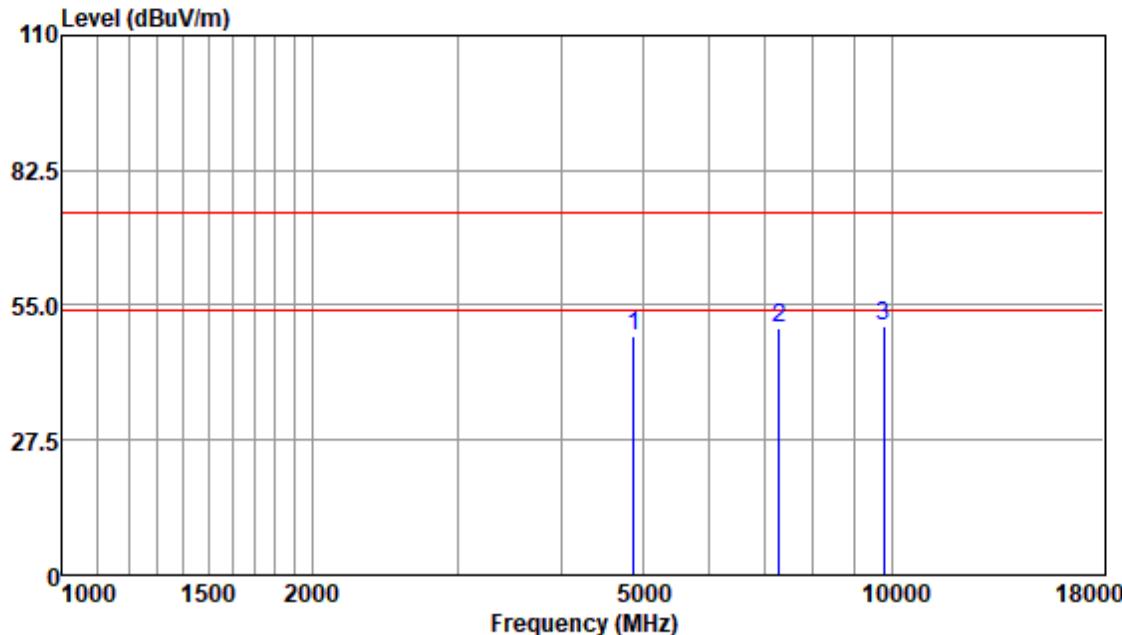
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4874.00	44.27	33.66	7.46	36.81	48.58	74.00	-25.42	Peak
7311.00	41.82	36.32	7.82	35.44	50.52	74.00	-23.48	Peak
9748.00	38.26	37.54	8.57	33.50	50.87	74.00	-23.13	Peak

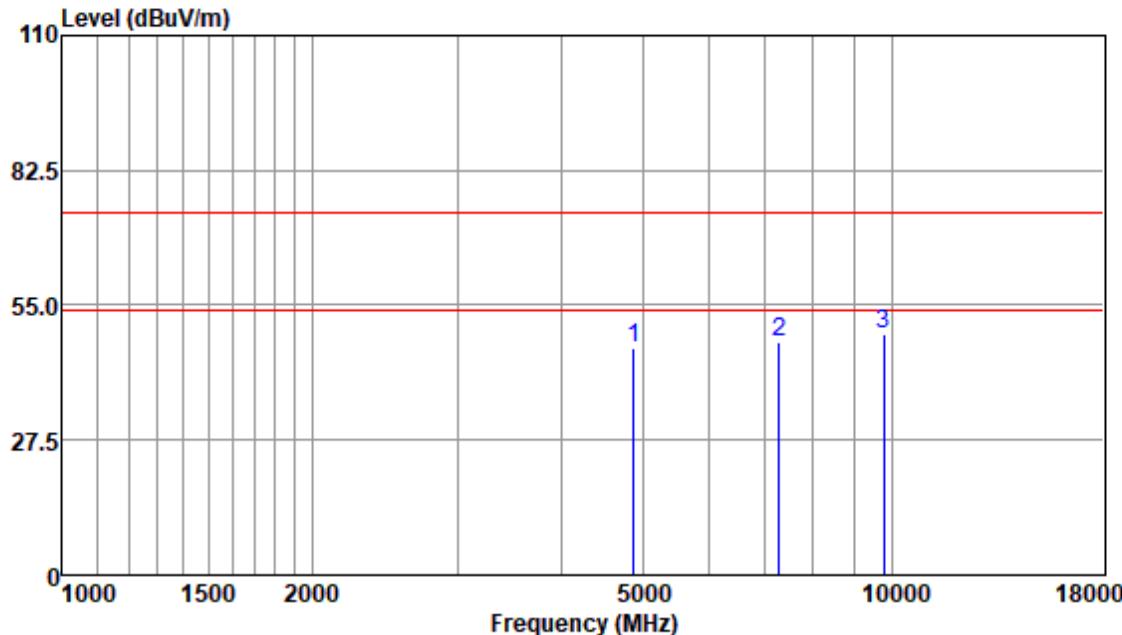
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	41.88	33.66	7.46	36.81	46.19	74.00	-27.81	Peak
7311.00	38.81	36.32	7.82	35.44	47.51	74.00	-26.49	Peak
9748.00	36.68	37.54	8.57	33.50	49.29	74.00	-24.71	Peak

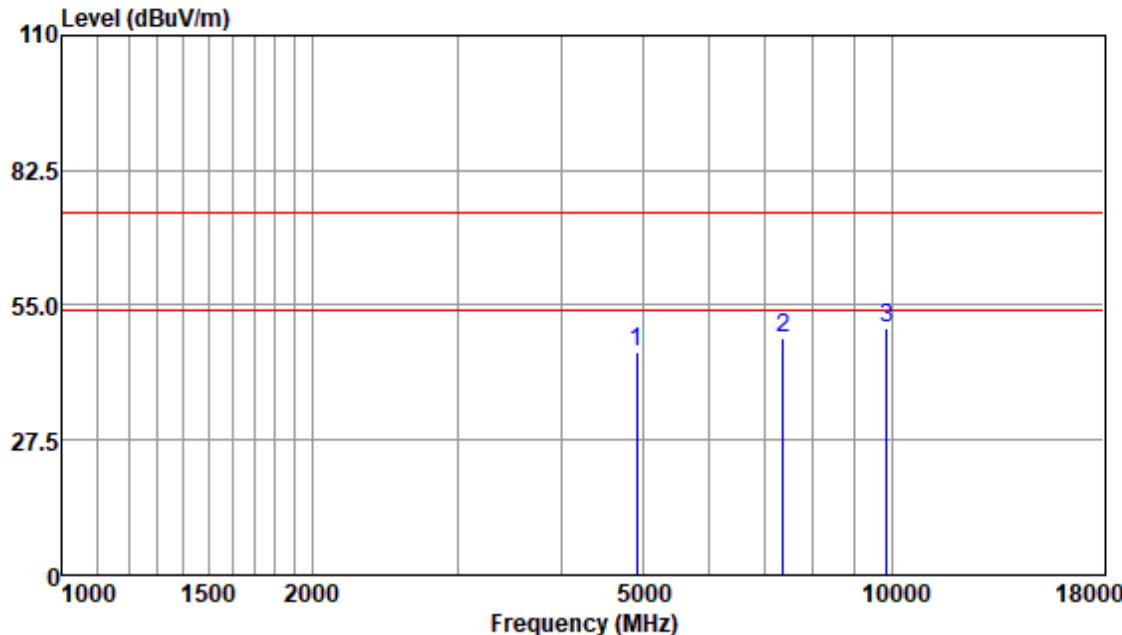
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4924.00	41.30	33.64	7.46	36.82	45.58	74.00	-28.42	Peak
7386.00	39.61	36.36	7.86	35.37	48.46	74.00	-25.54	Peak
9848.00	37.78	37.60	8.58	33.45	50.51	74.00	-23.49	Peak

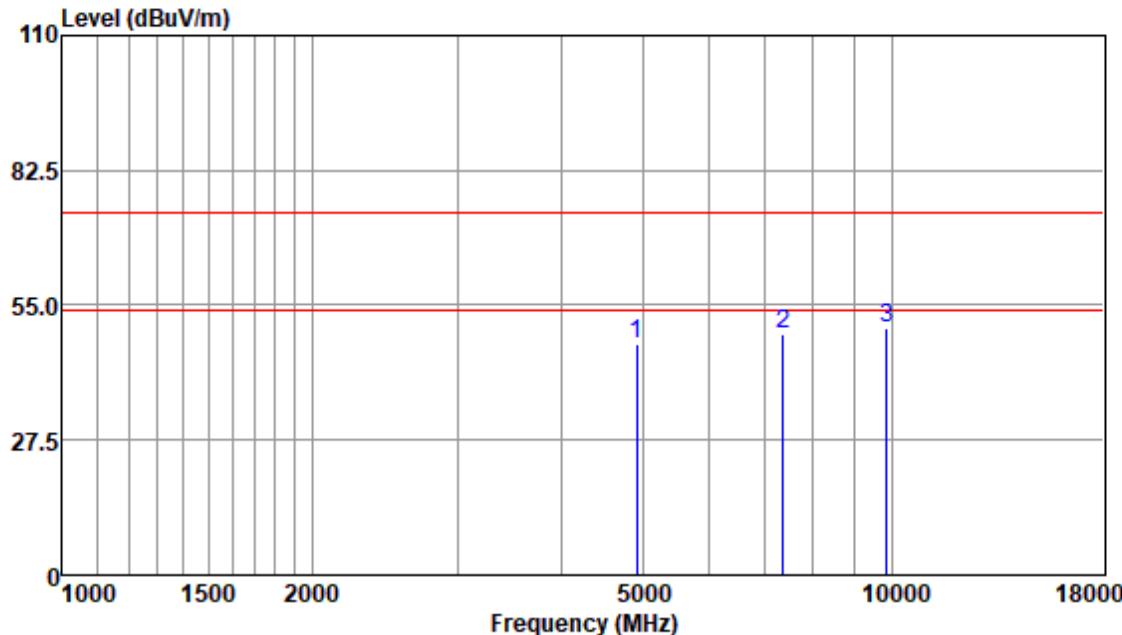
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4924.00	42.87	33.64	7.46	36.82	47.15	74.00	-26.85	Peak
7386.00	40.40	36.36	7.86	35.37	49.25	74.00	-24.75	Peak
9848.00	37.72	37.60	8.58	33.45	50.45	74.00	-23.55	Peak

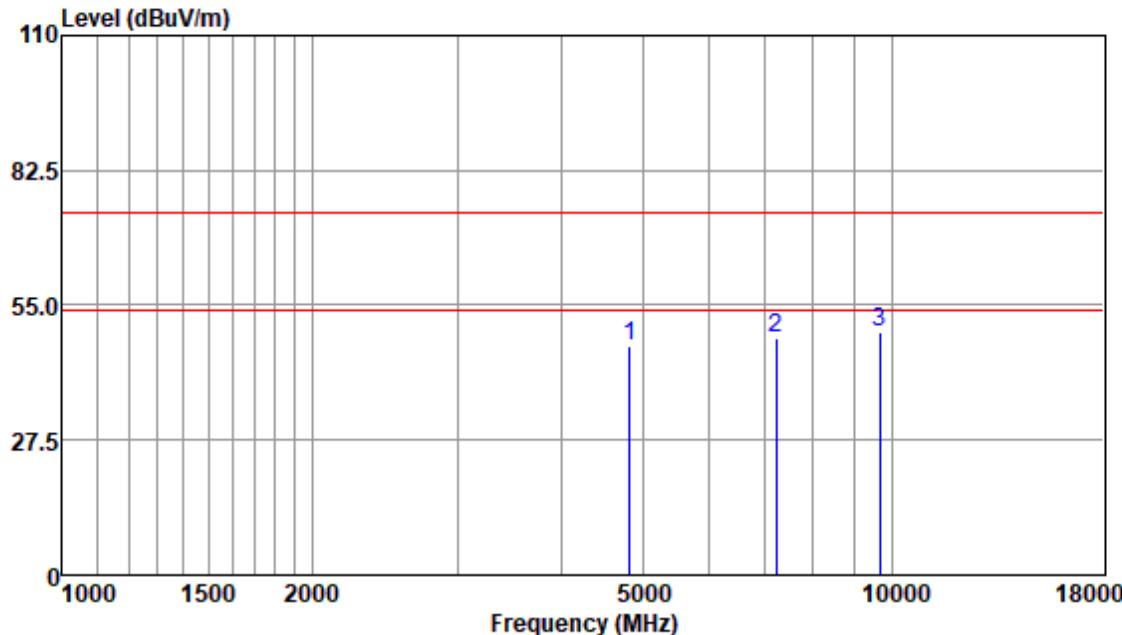
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	42.27	33.60	7.46	36.79	46.54	74.00	-27.46	Peak
7236.00	39.55	36.29	7.80	35.50	48.14	74.00	-25.86	Peak
9648.00	36.94	37.71	8.57	33.56	49.66	74.00	-24.34	Peak

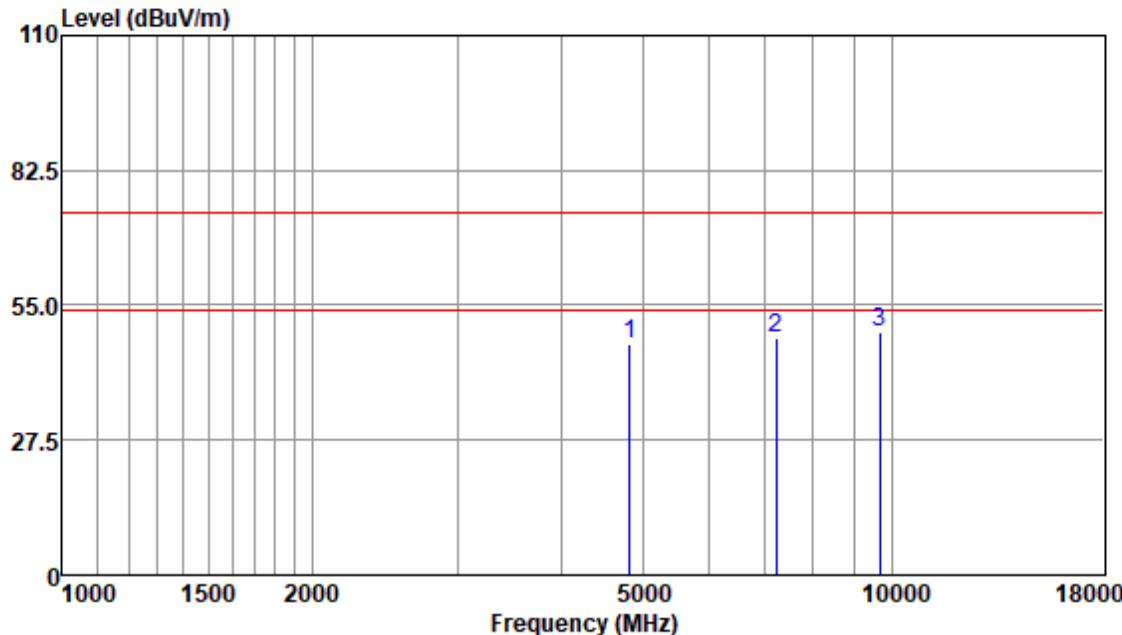
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	42.88	33.60	7.46	36.79	47.15	74.00	-26.85	Peak
7236.00	39.52	36.29	7.80	35.50	48.11	74.00	-25.89	Peak
9648.00	36.99	37.71	8.57	33.56	49.71	74.00	-24.29	Peak

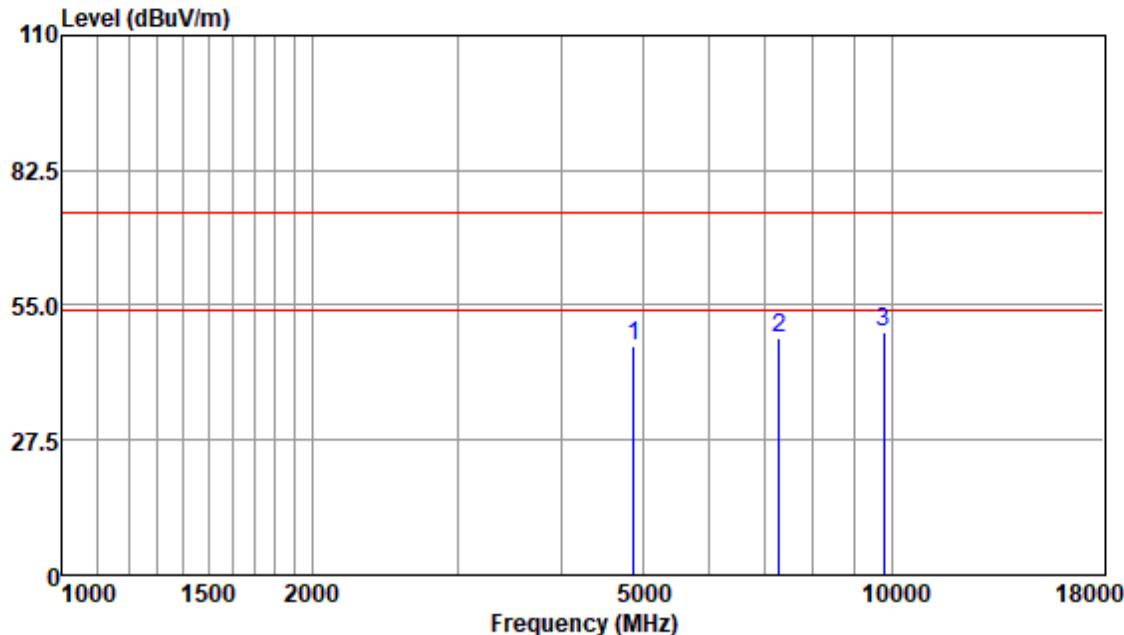
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	42.20	33.66	7.46	36.81	46.51	74.00	-27.49	Peak
7311.00	39.44	36.32	7.82	35.44	48.14	74.00	-25.86	Peak
9748.00	36.90	37.54	8.57	33.50	49.51	74.00	-24.49	Peak

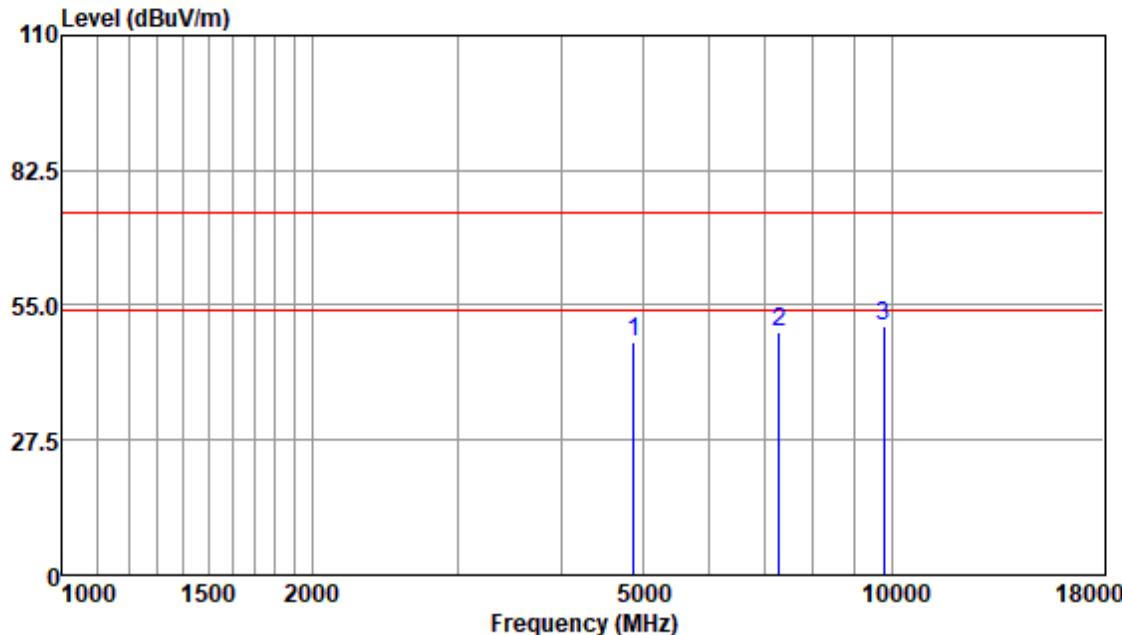
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4874.00	43.33	33.66	7.46	36.81	47.64	74.00	-26.36	Peak
7311.00	40.91	36.32	7.82	35.44	49.61	74.00	-24.39	Peak
9748.00	38.03	37.54	8.57	33.50	50.64	74.00	-23.36	Peak

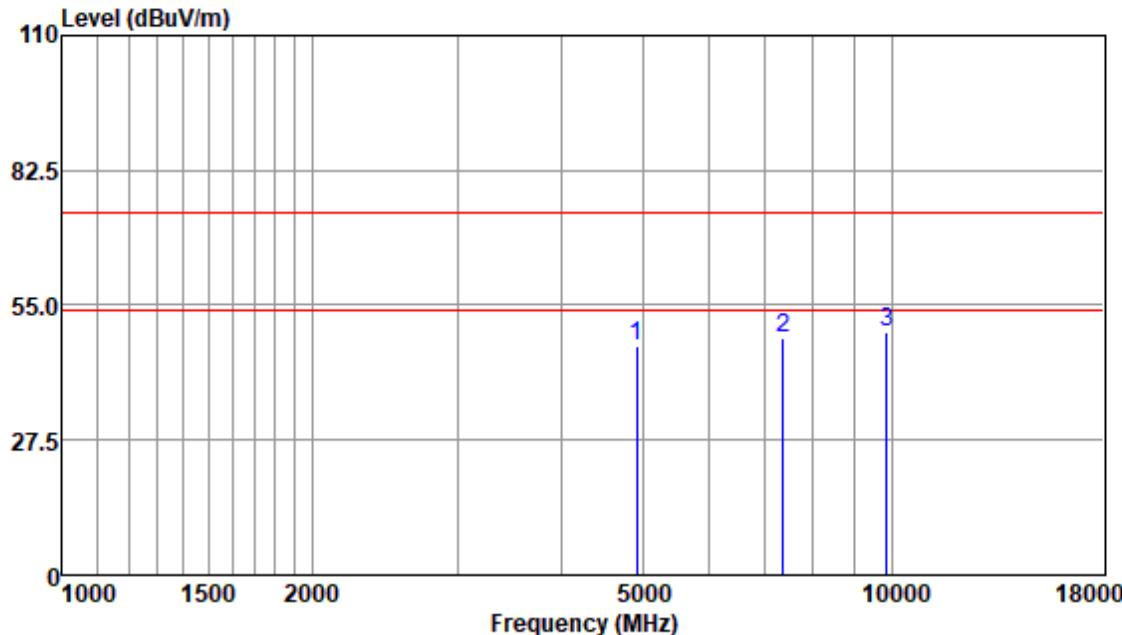
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4924.00	42.34	33.64	7.46	36.82	46.62	74.00	-27.38	Peak
7386.00	39.56	36.36	7.86	35.37	48.41	74.00	-25.59	Peak
9848.00	36.85	37.60	8.58	33.45	49.58	74.00	-24.42	Peak

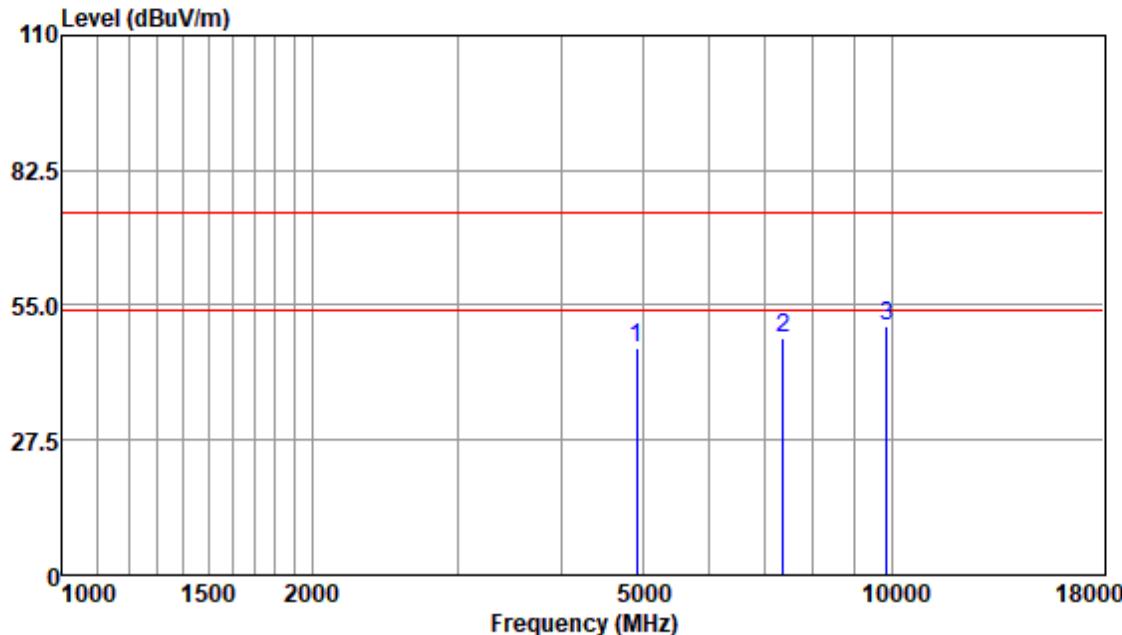
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	42.05	33.64	7.46	36.82	46.33	74.00	-27.67	Peak
7386.00	39.29	36.36	7.86	35.37	48.14	74.00	-25.86	Peak
9848.00	38.11	37.60	8.58	33.45	50.84	74.00	-23.16	Peak

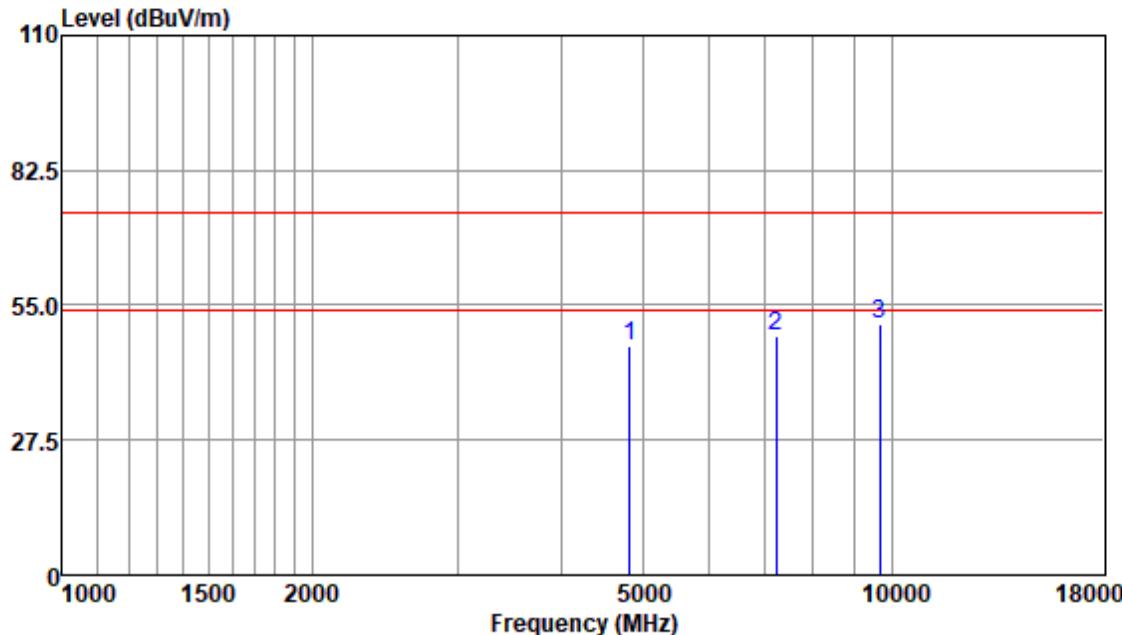
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4824.00	42.24	33.60	7.46	36.79	46.51	74.00	-27.49	Peak
7236.00	40.12	36.29	7.80	35.50	48.71	74.00	-25.29	Peak
9648.00	38.23	37.71	8.57	33.56	50.95	74.00	-23.05	Peak

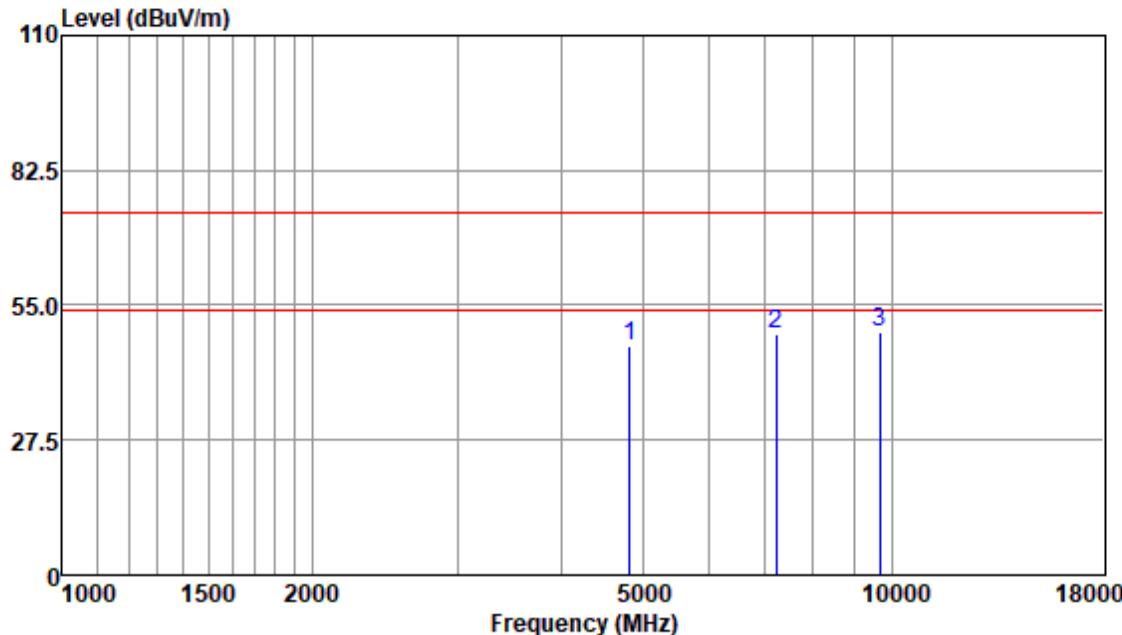
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	42.32	33.60	7.46	36.79	46.59	74.00	-27.41	Peak
7236.00	40.34	36.29	7.80	35.50	48.93	74.00	-25.07	Peak
9648.00	36.82	37.71	8.57	33.56	49.54	74.00	-24.46	Peak

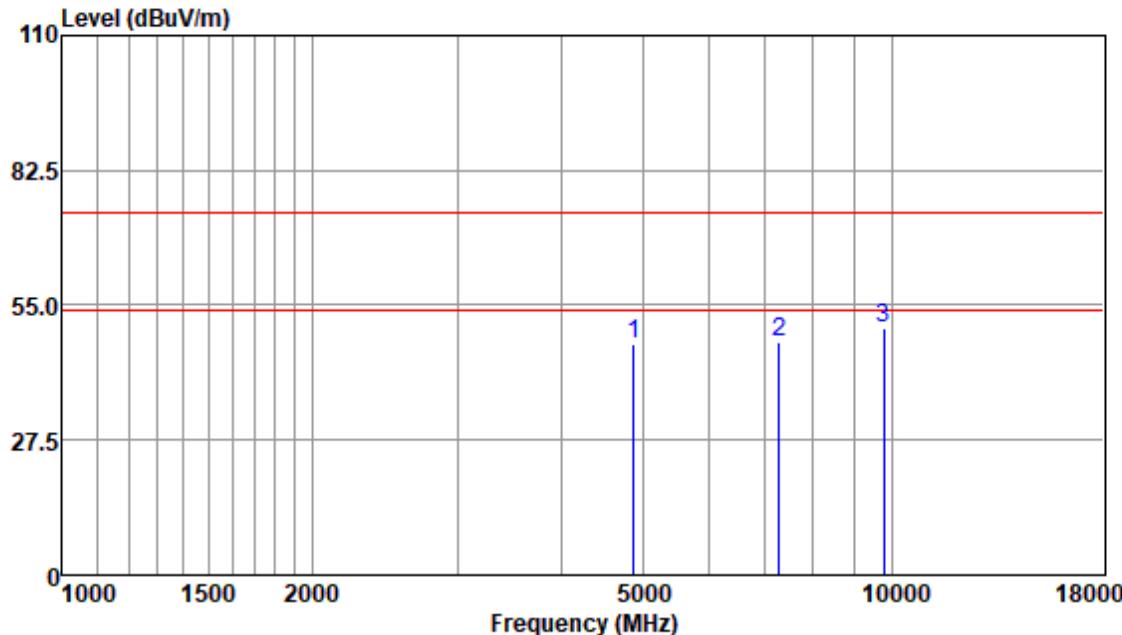
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	42.64	33.66	7.46	36.81	46.95	74.00	-27.05	Peak
7311.00	38.88	36.32	7.82	35.44	47.58	74.00	-26.42	Peak
9748.00	37.53	37.54	8.57	33.50	50.14	74.00	-23.86	Peak

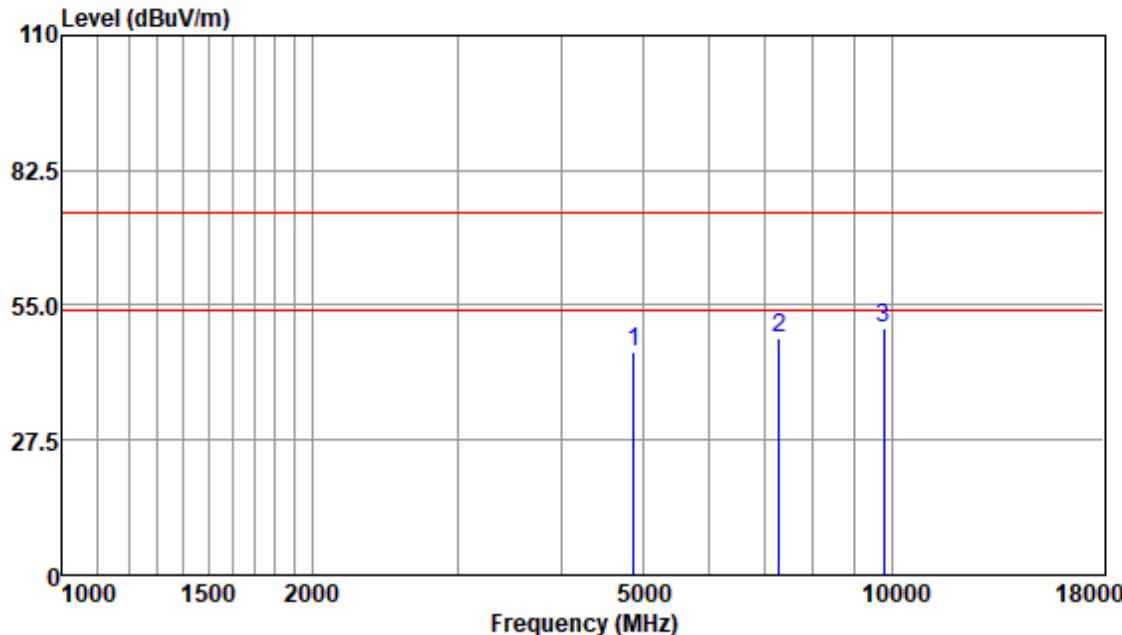
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4874.00	41.31	33.66	7.46	36.81	45.62	74.00	-28.38	Peak
7311.00	39.55	36.32	7.82	35.44	48.25	74.00	-25.75	Peak
9748.00	37.60	37.54	8.57	33.50	50.21	74.00	-23.79	Peak

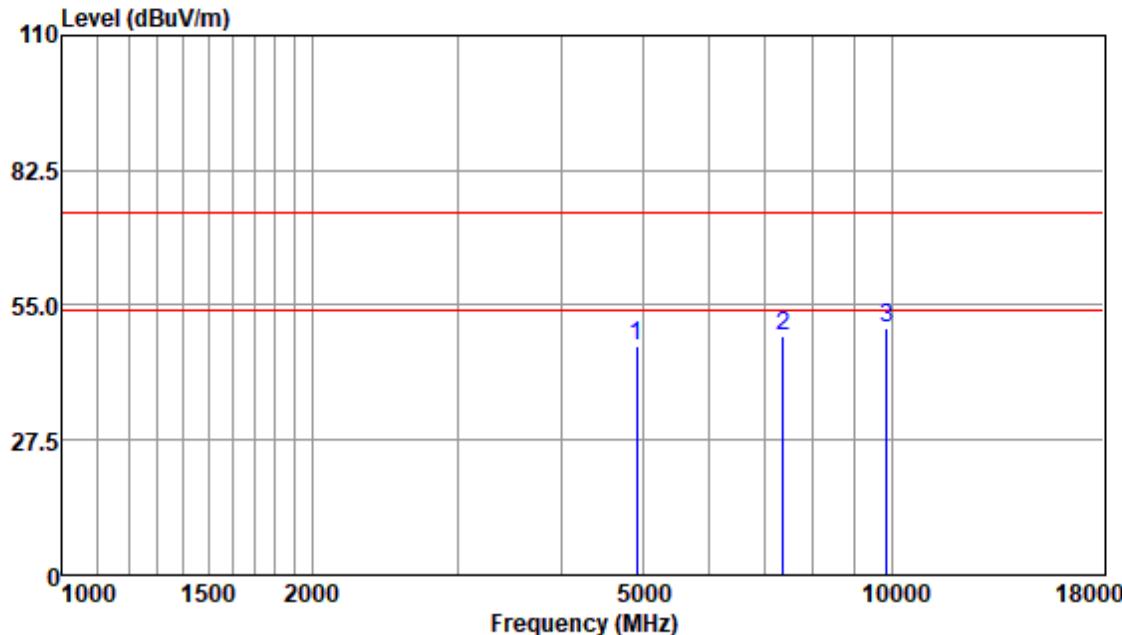
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	42.24	33.64	7.46	36.82	46.52	74.00	-27.48	Peak
7386.00	39.80	36.36	7.86	35.37	48.65	74.00	-25.35	Peak
9848.00	37.51	37.60	8.58	33.45	50.24	74.00	-23.76	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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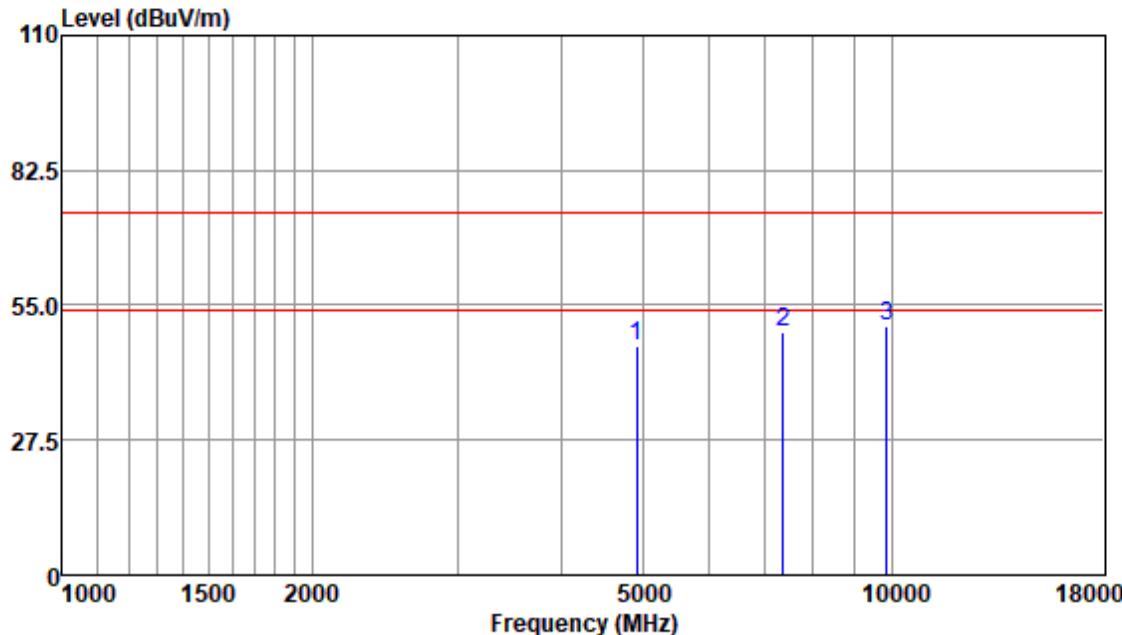
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4924.00	42.24	33.64	7.46	36.82	46.52	74.00	-27.48	Peak
7386.00	40.69	36.36	7.86	35.37	49.54	74.00	-24.46	Peak
9848.00	37.82	37.60	8.58	33.45	50.55	74.00	-23.45	Peak

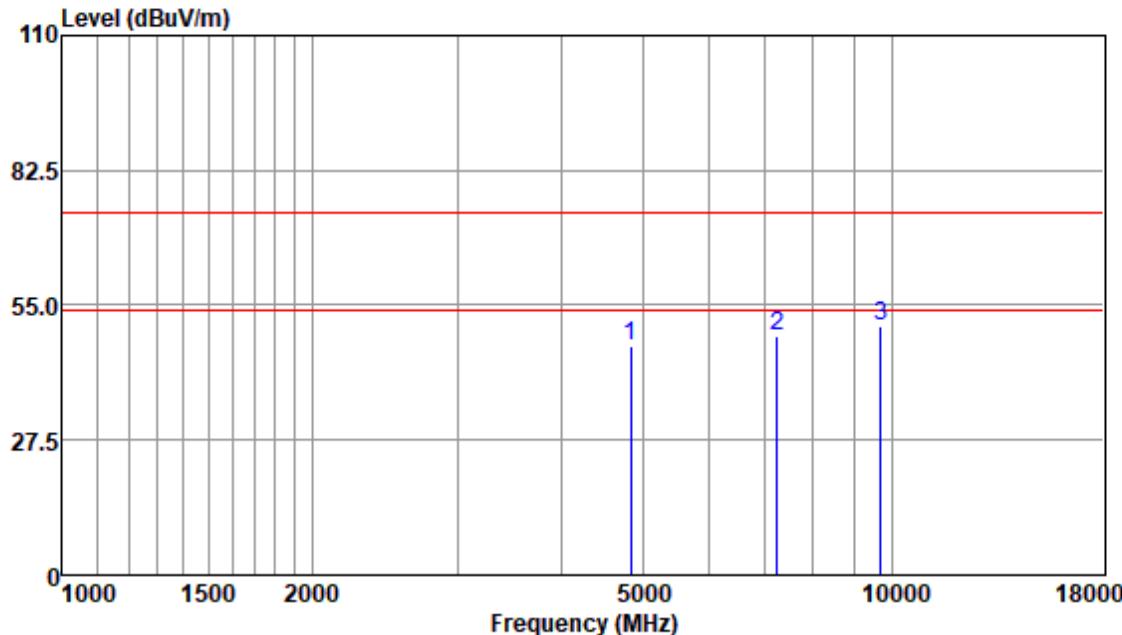
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4844.00	42.39	33.66	7.46	36.80	46.71	74.00	-27.29	Peak
7266.00	39.90	36.30	7.80	35.48	48.52	74.00	-25.48	Peak
9688.00	37.99	37.62	8.57	33.53	50.65	74.00	-23.35	Peak

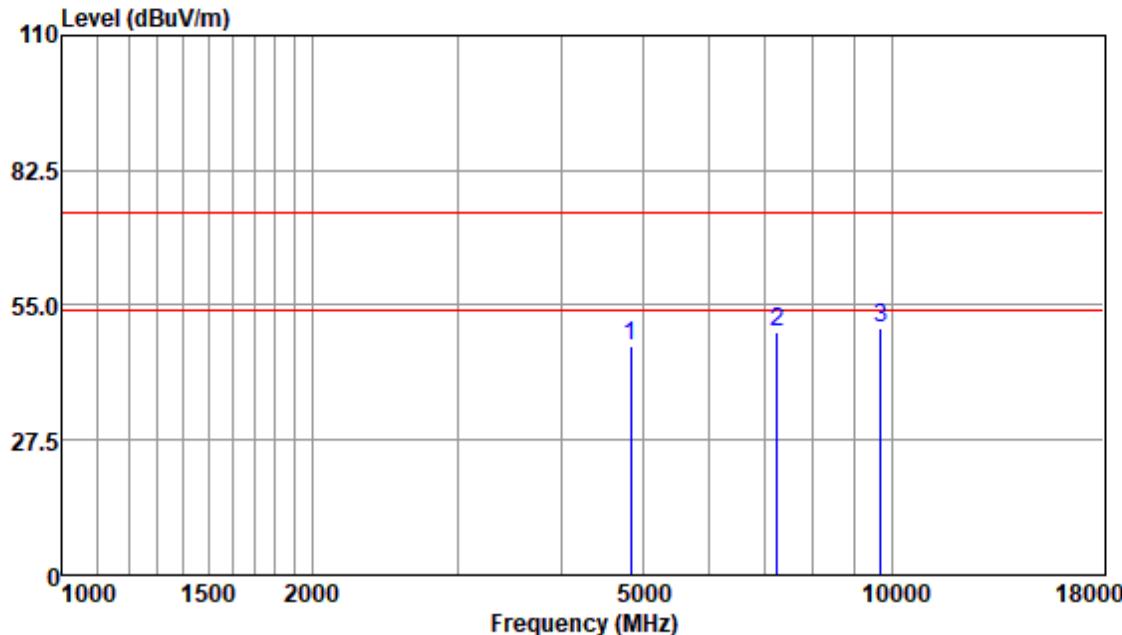
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4844.00	42.52	33.66	7.46	36.80	46.84	74.00	-27.16	Peak
7266.00	40.82	36.30	7.80	35.48	49.44	74.00	-24.56	Peak
9688.00	37.51	37.62	8.57	33.53	50.17	74.00	-23.83	Peak

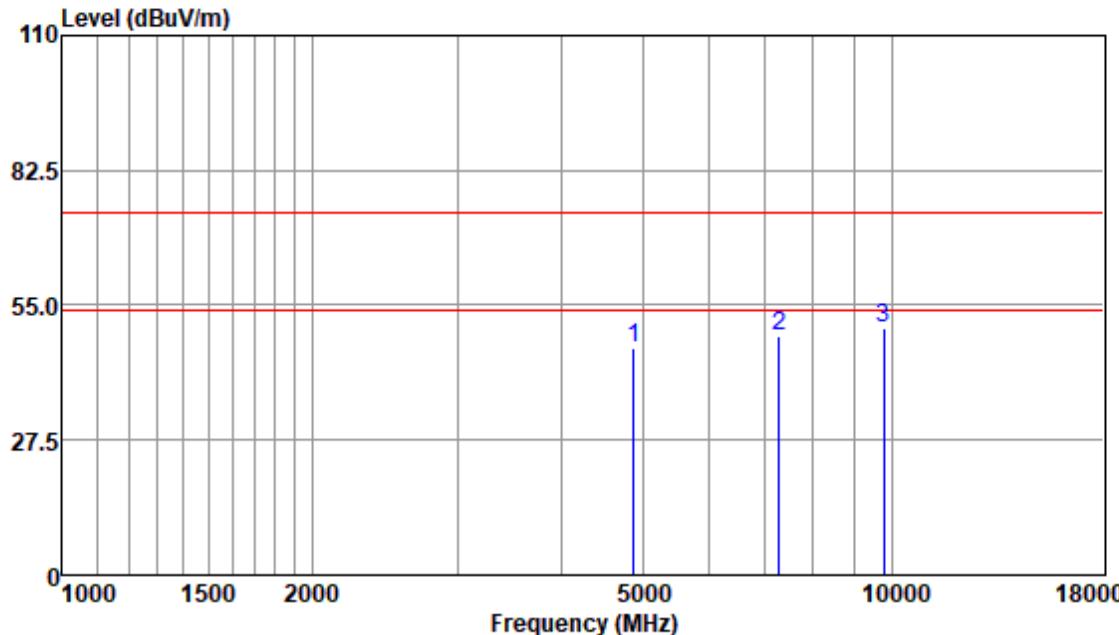
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	41.97	33.66	7.46	36.81	46.28	74.00	-27.72	Peak
7311.00	39.94	36.32	7.82	35.44	48.64	74.00	-25.36	Peak
9748.00	37.56	37.54	8.57	33.50	50.17	74.00	-23.83	Peak

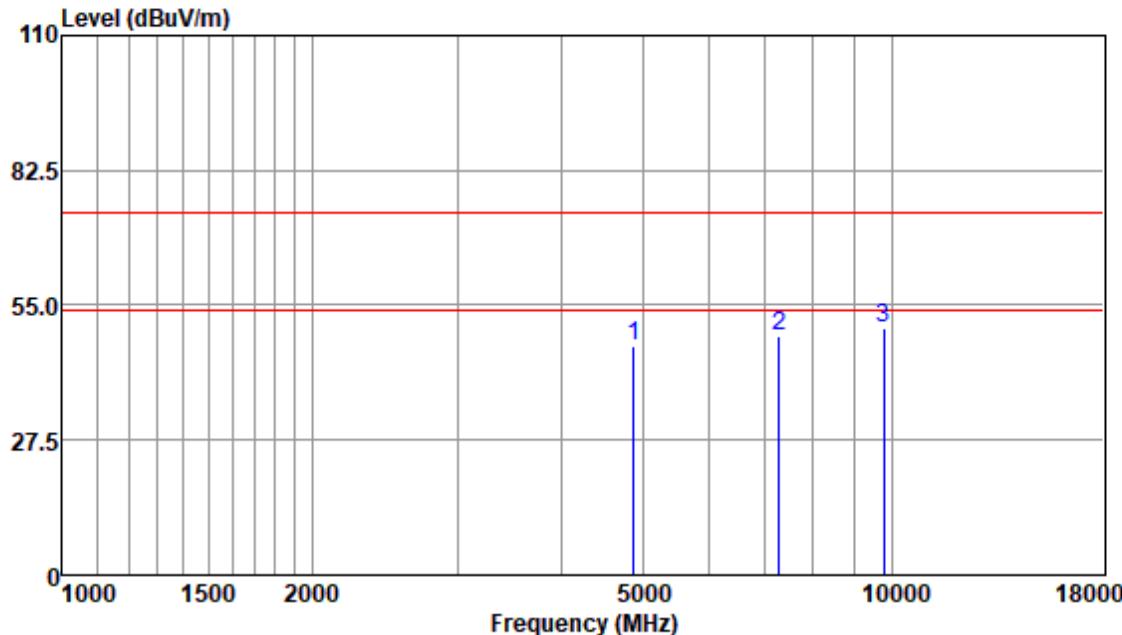
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4874.00	42.35	33.66	7.46	36.81	46.66	74.00	-27.34	Peak
7311.00	39.84	36.32	7.82	35.44	48.54	74.00	-25.46	Peak
9748.00	37.64	37.54	8.57	33.50	50.25	74.00	-23.75	Peak

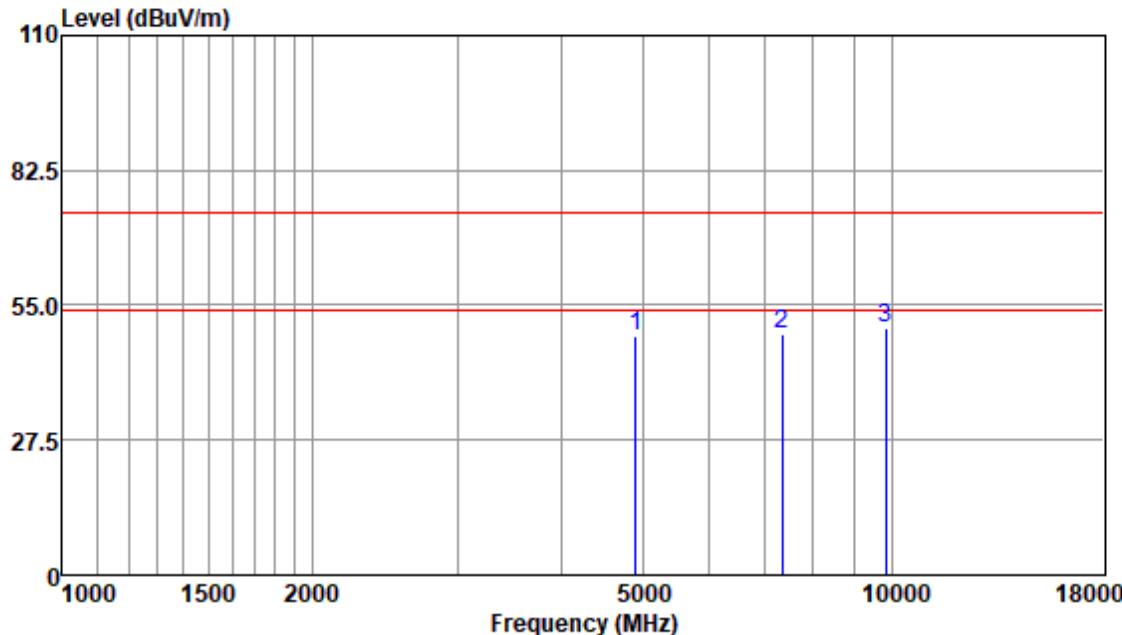
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4904.00	44.34	33.66	7.46	36.81	48.65	74.00	-25.35	Peak
7356.00	40.36	36.35	7.84	35.41	49.14	74.00	-24.86	Peak
9808.00	37.57	37.57	8.57	33.47	50.24	74.00	-23.76	Peak

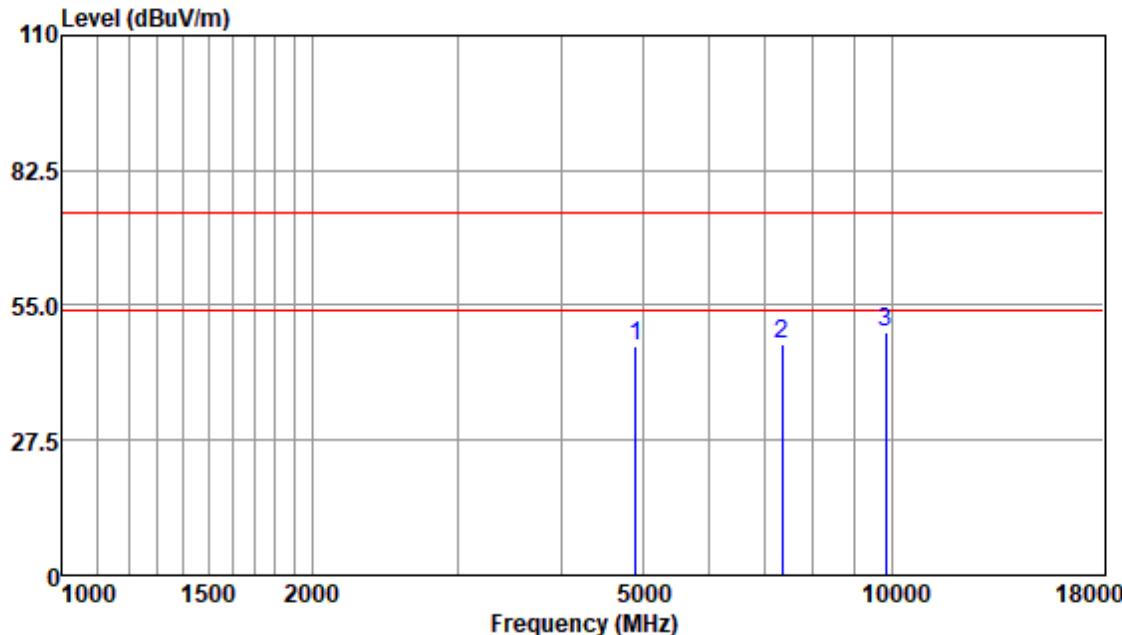
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4904.00	42.20	33.66	7.46	36.81	46.51	74.00	-27.49	Peak
7356.00	38.37	36.35	7.84	35.41	47.15	74.00	-26.85	Peak
9808.00	36.85	37.57	8.57	33.47	49.52	74.00	-24.48	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SHCR2201000300HS

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2201000300HS

-- End of the Report --



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