

# TEST REPORT

**Application No.:** SHCR2111000712ME  
**FCC ID:** 2AY4E-DVMB  
**IC:** 27001-DVMB  
**Applicant:** Hunan Vathin Medical Instrument Co., Ltd.  
**Address of Applicant:** 1/F, Building 12, Innovation and Entrepreneurship Service Center No. 9  
 Chuanqi West Road, Jiuhua Economic Development Zone, 411100  
 Xiangtan, Hunan China  
**Manufacturer:** Hunan Vathin Medical Instrument Co., Ltd.  
**Address of Manufacturer:** 1/F, Building 12, Innovation and Entrepreneurship Service Center No. 9  
 Chuanqi West Road, Jiuhua Economic Development Zone, 411100  
 Xiangtan, Hunan China  
**Factory:** Hunan Vathin Medical Instrument Co., Ltd.  
**Address of Factory:** 1/F, Building 12, Innovation and Entrepreneurship Service Center No. 9  
 Chuanqi West Road, Jiuhua Economic Development Zone, 411100  
 Xiangtan, Hunan China

**Equipment Under Test (EUT):**

**EUT Name:** Digital Video Monitor  
**Model No.:** DVM-B1, DVM-B2  
 □ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
 RSS-247 Issue 2, February 2017  
 RSS-Gen Issue 5, February 2021 Amendment 2

**Date of Receipt:** 2021-11-09  
**Date of Test:** 2021-11-12 to 2022-01-05  
**Date of Issue:** 2022-01-06

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

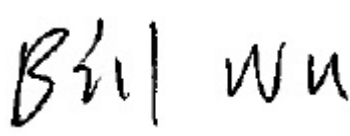
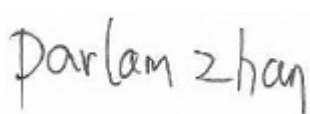
*Parlam Zhan*

Parlam Zhan  
Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2022-01-06	/

<b>Authorized for issue by:</b>			
			
		<hr/> <b>Bill Wu / Project Engineer</b>	
			
		<hr/> <b>Parlam Zhan / Reviewer</b>	



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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
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207	RSS-Gen Clause 8.8	ANSI C63.10 (2013) Section 6.2	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247a(2)	RSS-247 Clause 5.2(a)	ANSI C63.10 (2013) Section 11.8.1	Pass
Conducted Average Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2013) Section 11.9.2	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2013) Section 11.10.3	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.13.3.2	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.11	Pass
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
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass

### Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model DVM-B1 was tested since their differences were the model number and appearance.



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### 3 Contents

	Page
1 COVER PAGE.....	1
2 TEST SUMMARY.....	3
3 CONTENTS.....	4
4 GENERAL INFORMATION .....	5
4.1 DETAILS OF E.U.T.....	5
4.2 DESCRIPTION OF SUPPORT UNITS.....	5
4.3 POWER LEVEL SETTING USING IN TEST .....	5
4.4 MEASUREMENT UNCERTAINTY .....	6
4.5 TEST LOCATION .....	7
4.6 TEST FACILITY .....	7
4.7 DEVIATION FROM STANDARDS .....	7
4.8 ABNORMALITIES FROM STANDARD CONDITIONS .....	7
5 EQUIPMENT LIST .....	8
6 RADIO SPECTRUM TECHNICAL REQUIREMENT .....	10
6.1 ANTENNA REQUIREMENT .....	10
7 RADIO SPECTRUM MATTER TEST RESULTS .....	11
7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ).....	11
7.2 MINIMUM 6dB BANDWIDTH .....	15
7.3 CONDUCTED AVERAGE OUTPUT POWER .....	16
7.4 POWER SPECTRUM DENSITY .....	18
7.5 CONDUCTED BAND EDGES MEASUREMENT .....	19
7.6 CONDUCTED SPURIOUS EMISSIONS .....	21
7.7 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS.....	23
7.8 RADIATED SPURIOUS EMISSIONS .....	43
7.9 99% BANDWIDTH.....	66
8 TEST SETUP PHOTOGRAPHS.....	67
9 EUT CONSTRUCTIONAL DETAILS.....	67



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## 4 General Information

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

Power supply:	DC 11.1V 9000mAh rechargeable battery
Charging adapter:	Model:HPU63A-106
	Input:100-240V~47-63Hz
	Output:15V 4.2A
Test voltage:	AC 120V/60Hz
Antenna Gain:	2dBi (Provided by manufacturer)
Antenna Type:	FPC Antenna
Channel Spacing:	5MHz
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
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Date Rate:	802.11b:1/2/5.5/11Mbps
	802.11g:6/9/12/18/24/36/48/54Mbps
	802.11n:MCS0-MCS7
SN:	Q2110053
Firmware:	7.1.2
Hardware Version:	V1
Software Version:	V1

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	ThinkPad X100e	/

### 4.3 Power level setting using in test

Channel	802.11b	802.11g	802.11n(HT20)
1	14	12	12
6	14	12	12
11	14	12	12



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4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
2	Timeout	2s
3	Duty Cycle	0.37%
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-18GHz)
		5.4dB (Above 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.



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#### 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.

#### 4.6 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **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
<b>Conducted Emission at Mains Terminals (150kHz-30MHz)</b>					
EMI test receiver	R&S	ESR7	SHEM162-1	2021-12-20	2022-12-19
LISN	Schwarzbeck	NSLK8127	SHEM061-1	2021-12-20	2022-12-19
LISN	EMCO	3816/2	SHEM019-1	2021-12-20	2022-12-19
Pulse limiter	R&S	ESH3-Z2	SHEM029-1	2021-12-20	2022-12-19
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2021-12-20	2022-12-19
CE test Cable	/	CE01	/	2021-12-20	2022-12-19
Test software	ESE	E3	Version: 6.111221a	/	/
<b>RF Conducted Test</b>					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2021-12-20	2022-12-19
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2021-08-30	2022-08-29
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2021-08-13	2022-08-12
Signal Generator	R&S	SMR20	SHEM006-1	2021-08-13	2022-08-12
Signal Generator	Agilent	N5182A	SHEM182-1	2021-08-13	2022-08-12
Communication Tester	R&S	CMW270	SHEM183-1	2021-07-28	2022-07-27
Communication Tester	R&S	CMW500	SHEM183-2	2021-04-16	2022-04-15
Switcher	Tonscend	JS0806	SHEM184-1	2021-08-13	2022-08-12
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2021-08-13	2022-08-12
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2019-09-25	2022-09-24
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2021-12-20	2022-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2021-12-20	2022-12-19
Conducted test Cable	/	RF01-RF04	/	2021-12-20	2022-12-19
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
<b>RF Radiated Test</b>					
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	SHEM183-2	2021-04-16	2022-04-15
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	2020-04-30	2022-04-29
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2019-10-24	2022-10-23
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	2021-05-27	2022-05-26
Pre-Amplifier	PANSHAN	LNA 1-18G	SHEM235-1	2021-05-27	2022-05-26
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	/	2021-12-20	2022-12-19
Test software	ESE	E3	Version: 6.111221a	/	/



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LISN	Schwarzbeck	NSLK8127	SHEM061-1	2020-12-20	2021-12-19
LISN	EMCO	3816/2	SHEM019-1	2020-12-20	2021-12-19
Pulse limiter	R&S	ESH3-Z2	SHEM029-1	2020-12-20	2021-12-19
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2020-12-20	2021-12-19
CE test Cable	/	CE01	/	2020-12-20	2021-12-19
Test software	ESE	E3	Version: 6.111221a	/	/
<b>RF Conducted Test</b>					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2020-12-20	2021-12-19
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2021-08-30	2022-08-29
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2021-08-13	2022-08-12
Signal Generator	R&S	SMR20	SHEM006-1	2021-08-13	2022-08-12
Signal Generator	Agilent	N5182A	SHEM182-1	2021-08-13	2022-08-12
Communication Tester	R&S	CMW270	SHEM183-1	2021-07-28	2022-07-27
Communication Tester	R&S	CMW500	SHEM183-2	2021-04-16	2022-04-15
Switcher	Tonscend	JS0806	SHEM184-1	2021-08-13	2022-08-12
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2021-08-13	2022-08-12
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2019-09-25	2022-09-24
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2020-12-20	2021-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2020-12-20	2021-12-19
Conducted test Cable	/	RF01~RF04	/	2020-12-20	2021-12-19
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
<b>RF Radiated Test</b>					
EMI test Receiver	R&S	ESU40	SHEM051-1	2020-12-20	2021-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2020-12-20	2021-12-19
Communication Tester	R&S	CMW500	SHEM183-2	2021-04-16	2022-04-15
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2020-12-20	2021-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2020-04-30	2022-04-29
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2018-10-24	2021-10-23
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	2021-05-27	2022-05-26
Pre-Amplifier	PANSHAN	LNA 1-18G	SHEM235-1	2021-05-27	2022-05-26
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2020-12-20	2021-12-19
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	/	2020-12-20	2021-12-19
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 2dBi.

Antenna location: Refer to Appendix (Internal Photos)



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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(dBμV)	
	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.

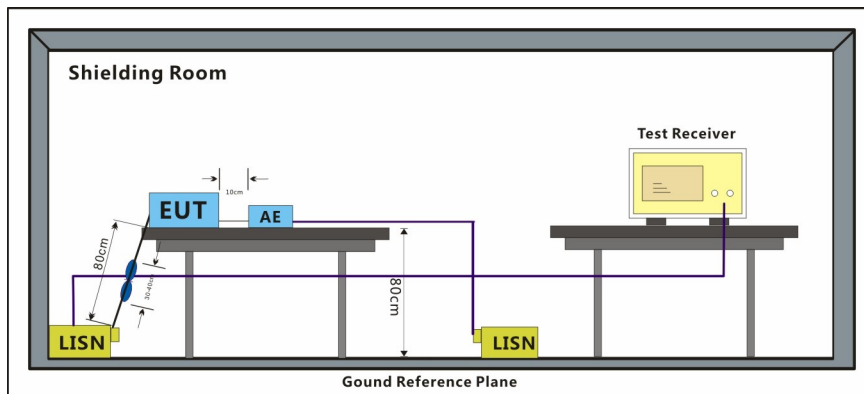
#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a: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.

#### 7.1.2 Test Setup Diagram



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### 7.1.3 Measurement Procedure and Data

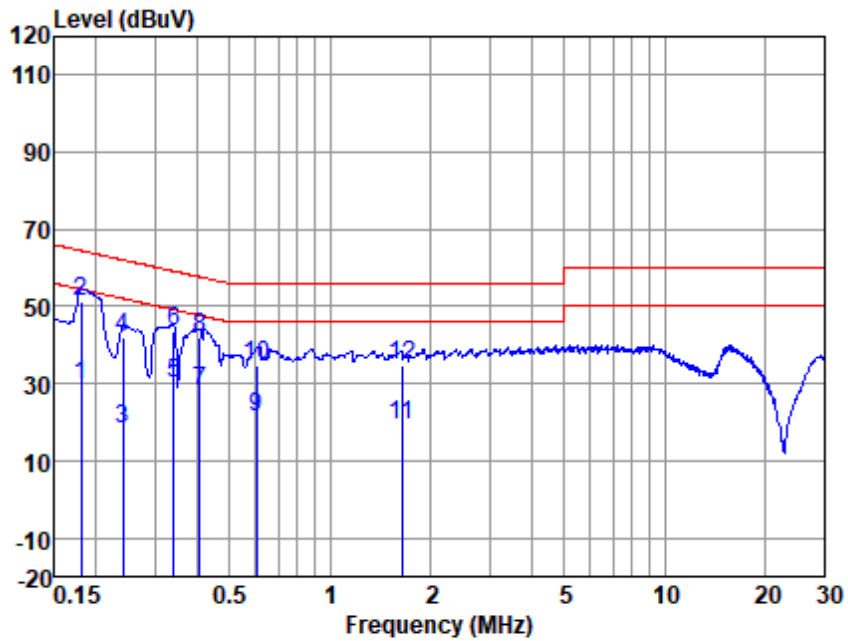
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to 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: LISN=Read Level+ Cable Loss+ LISN Factor



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Mode:a; Line:Live Line



LISN : LINE  
 EUT/Project No : 00712ME  
 Test Mode : a

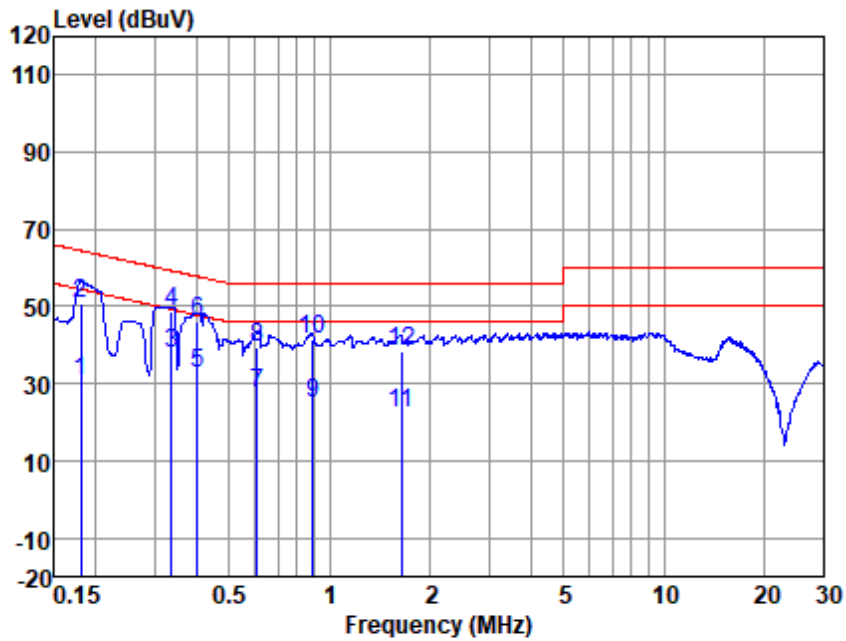
	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.18	19.68	0.20	9.92	29.80	54.50	-24.70	Average
2	0.18	41.19	0.20	9.92	51.31	64.50	-13.19	QP
3	0.24	7.96	0.20	9.93	18.09	52.08	-33.99	Average
4	0.24	31.67	0.20	9.93	41.80	62.08	-20.28	QP
5	0.34	20.03	0.20	9.94	30.17	49.18	-19.01	Average
6	0.34	33.54	0.20	9.94	43.68	59.18	-15.50	QP
7	0.41	18.10	0.20	9.93	28.23	47.68	-19.45	Average
8	0.41	32.06	0.20	9.93	42.19	57.68	-15.49	QP
9	0.60	11.41	0.20	9.92	21.53	46.00	-24.47	Average
10	0.60	24.69	0.20	9.92	34.81	56.00	-21.19	QP
11	1.64	9.24	0.20	9.93	19.37	46.00	-26.63	Average
12	1.64	24.66	0.20	9.93	34.79	56.00	-21.21	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss



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Mode:a; Line:Neutral Line



LISN : NEUTRAL  
 EUT/Project No : 00712ME  
 Test Mode : a

Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	20.41	0.20	9.92	30.53	54.50	-23.97	Average
2	40.79	0.20	9.92	50.91	64.50	-13.59	QP
3	27.86	0.20	9.94	38.00	49.31	-11.31	Average
4	38.55	0.20	9.94	48.69	59.31	-10.62	QP
5	22.73	0.20	9.93	32.86	47.81	-14.95	Average
6	35.93	0.20	9.93	46.06	57.81	-11.75	QP
7	17.63	0.20	9.92	27.75	46.00	-18.25	Average
8	29.41	0.20	9.92	39.53	56.00	-16.47	QP
9	14.61	0.20	9.90	24.71	46.00	-21.29	Average
10	31.13	0.20	9.90	41.23	56.00	-14.77	QP
11	12.39	0.20	9.93	22.52	46.00	-23.48	Average
12	28.38	0.20	9.93	38.51	56.00	-17.49	QP

Notes: Emission Level = Read Level + LISN Factor + Cable loss



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## 7.2 Minimum 6dB Bandwidth

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

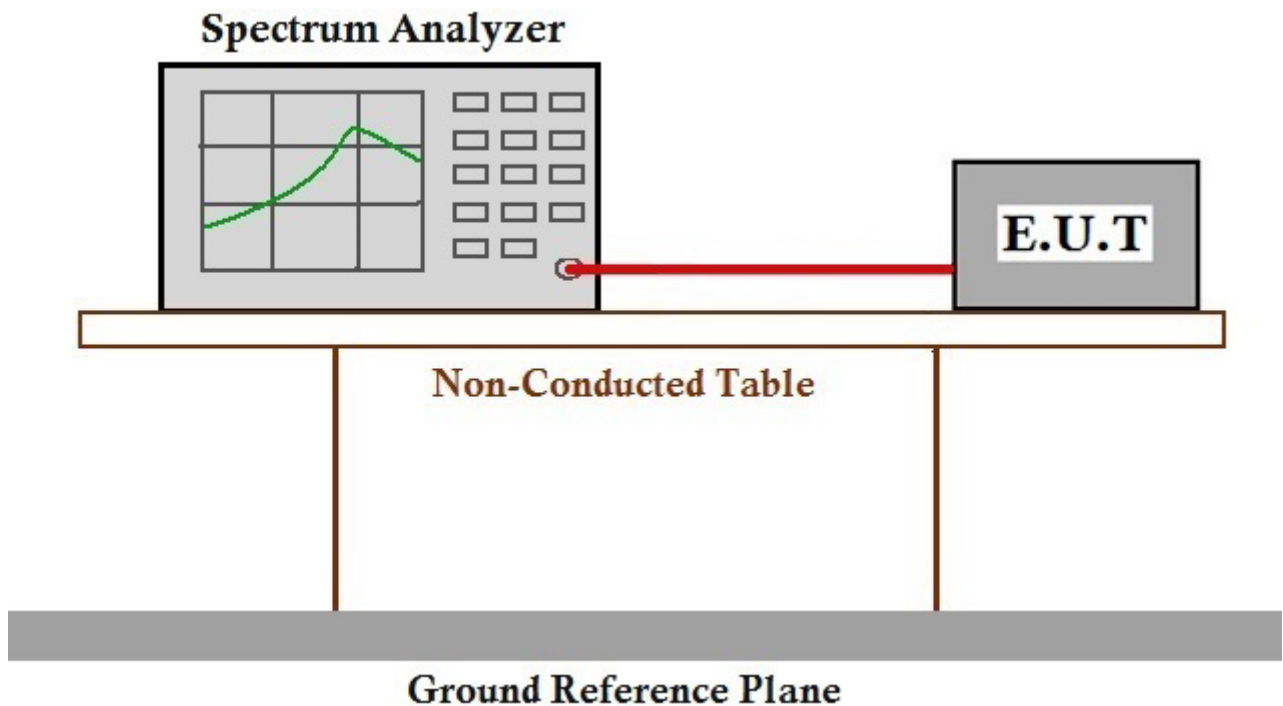
### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode a: 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.

### 7.2.2 Test Setup Diagram



### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHCR211100071201



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### 7.3 Conducted Average Output Power

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

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

Limit:

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



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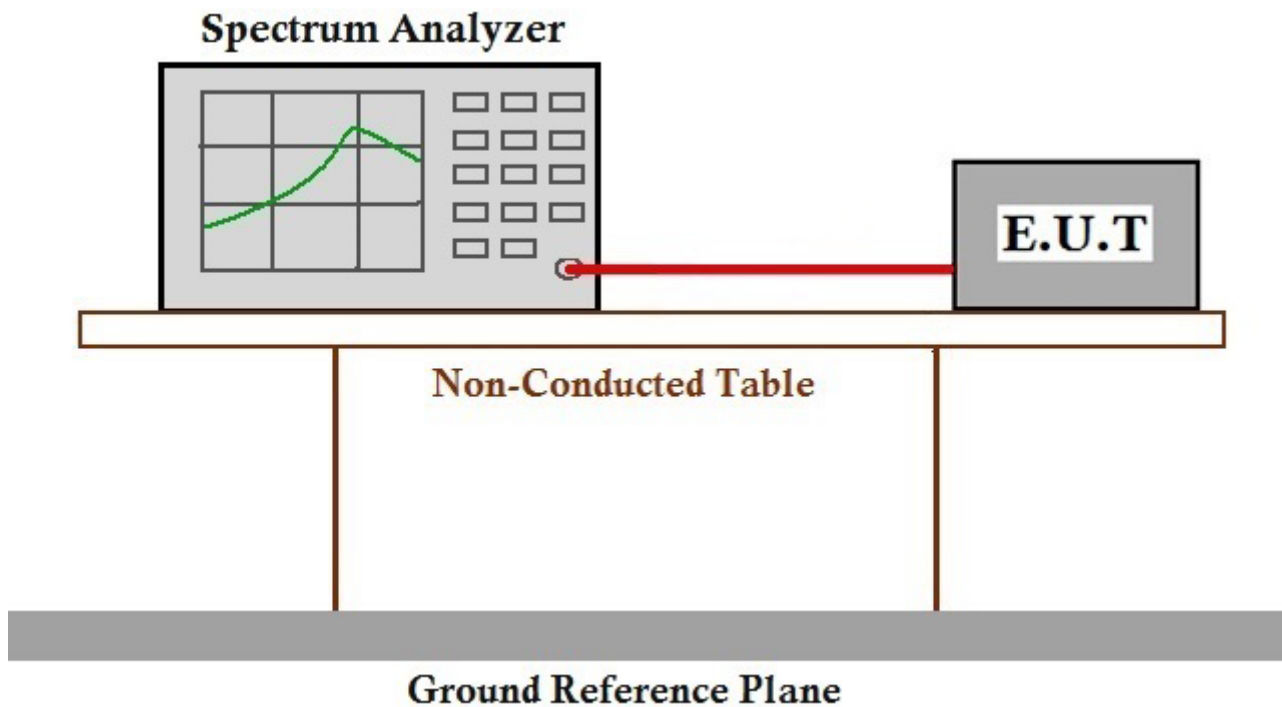
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode a: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.

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHCR211100071201



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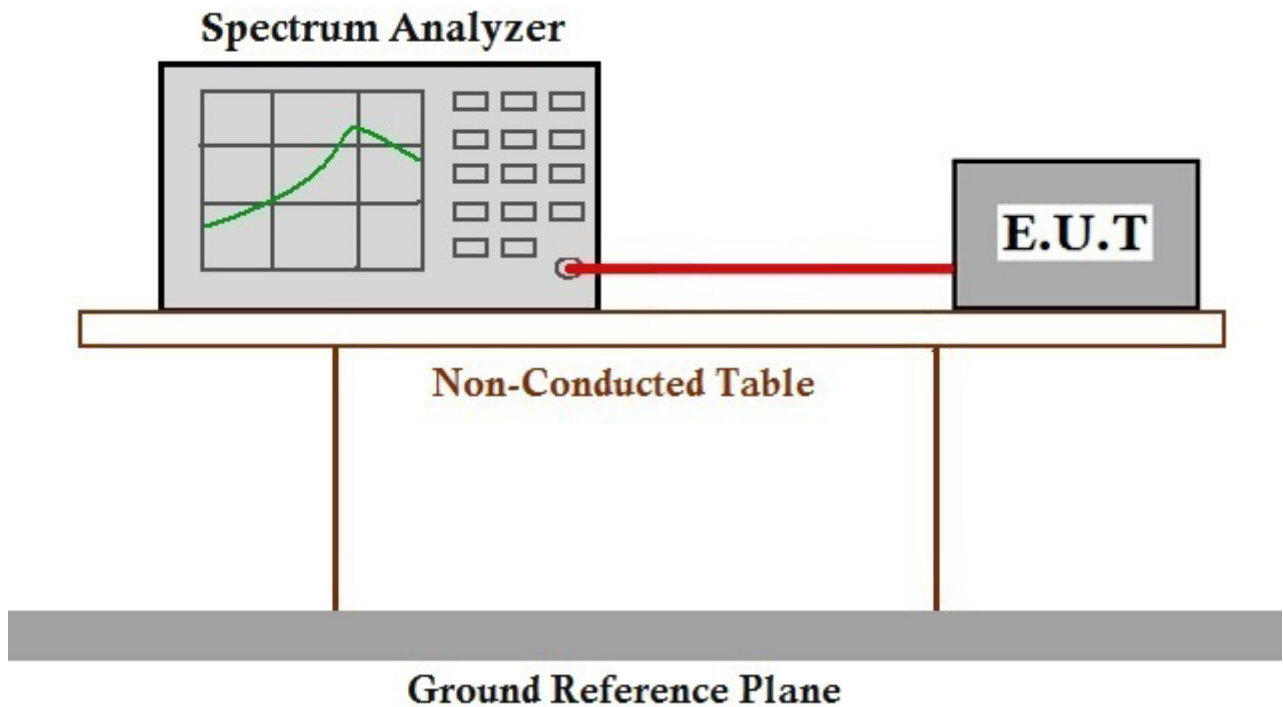
### 7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)  
 Test Method: ANSI C63.10 (2013) Section 11.10.3  
 Limit:  $\leq 8\text{dBm}$  in any 3 kHz band during any time interval of continuous transmission

#### 7.4.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar  
 Test mode a: 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.

#### 7.4.2 Test Setup Diagram



#### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHCR211100071201



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### 7.5 Conducted Band Edges Measurement

**Test Requirement** 47 CFR Part 15, Subpart C 15.247(d)  
**Test Method:** ANSI C63.10 (2013) Section 11.13.3.2  
**Limit:** In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))



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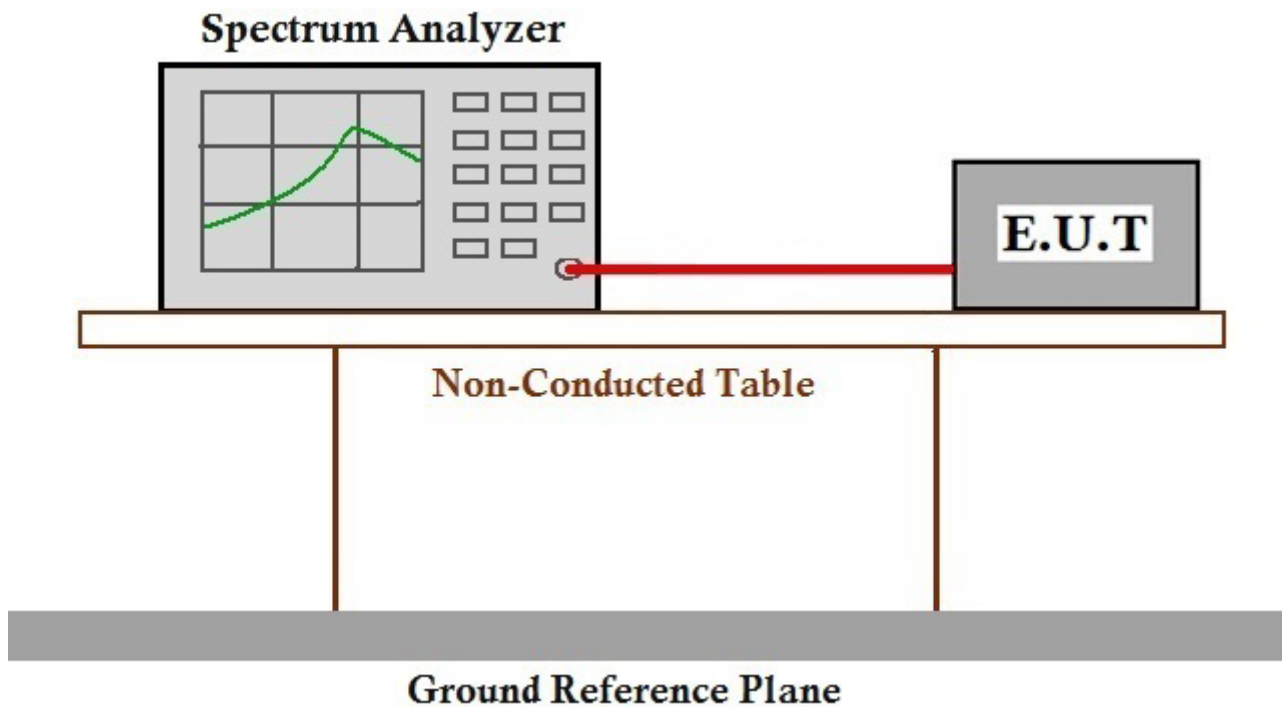
**7.5.1 E.U.T. Operation**

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode a: 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.

**7.5.2 Test Setup Diagram**



**7.5.3 Measurement Procedure and Data**

The detailed test data see: Appendix A for SHCR211100071201



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## 7.6 Conducted Spurious Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.11
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))



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(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

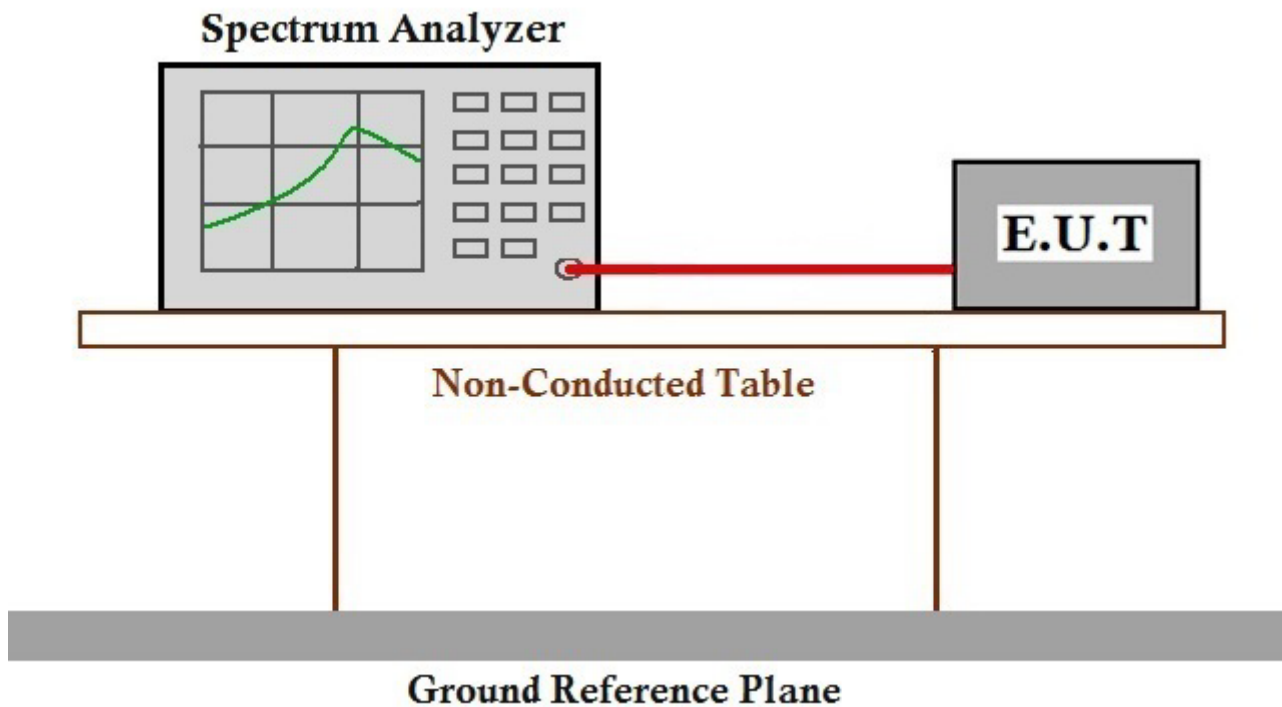
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode a: 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.

7.6.2 Test Setup Diagram



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHCR211100071201



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

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

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.



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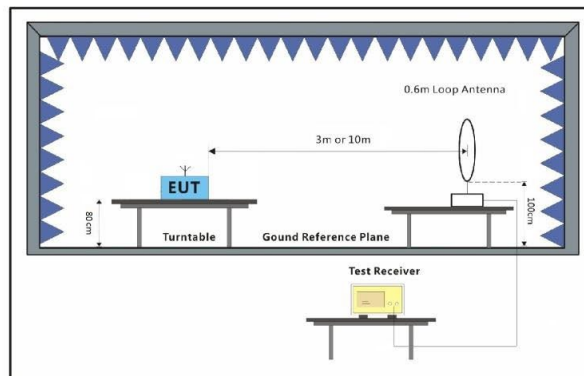
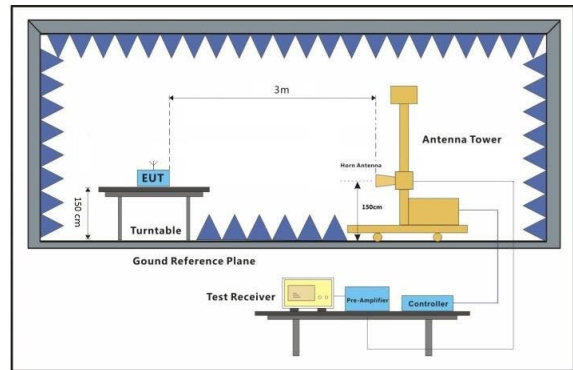
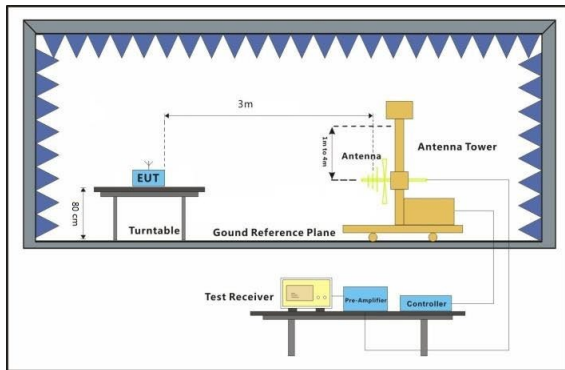
### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode a: 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.

### 7.7.2 Test Setup Diagram



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### 7.7.3 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 middle 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.

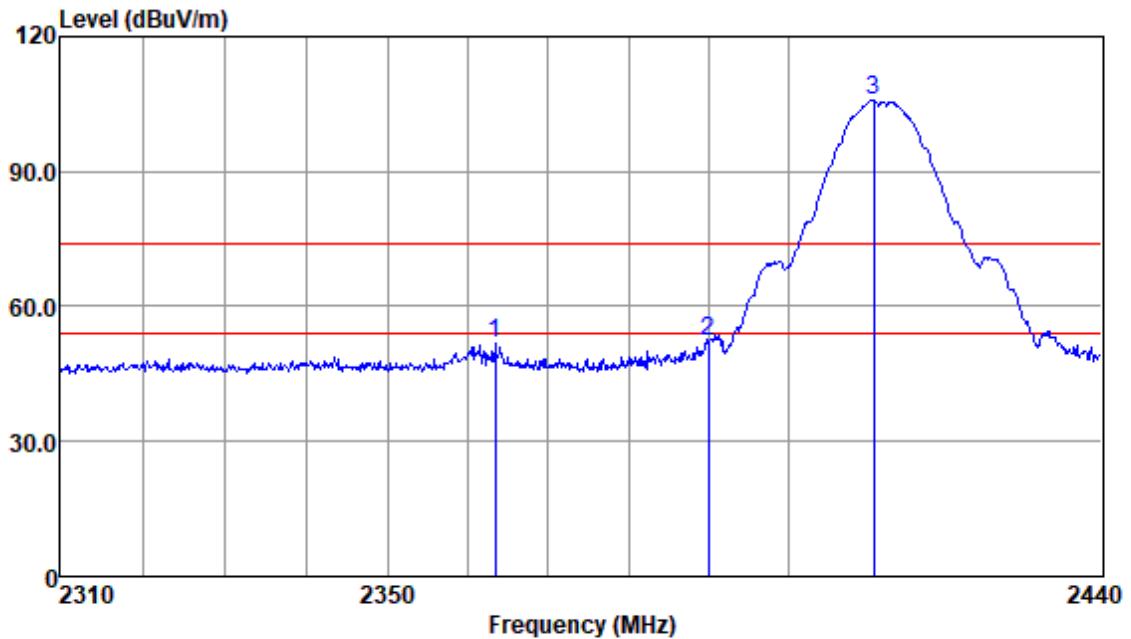
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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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Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
2363.35	55.41	28.94	2.75	35.16	51.94	74.00	-22.06 Peak
2390.00	55.65	28.97	2.77	35.18	52.21	74.00	-21.79 Peak
2410.92	109.23	29.00	2.79	35.20	105.82	74.00	31.82 Peak

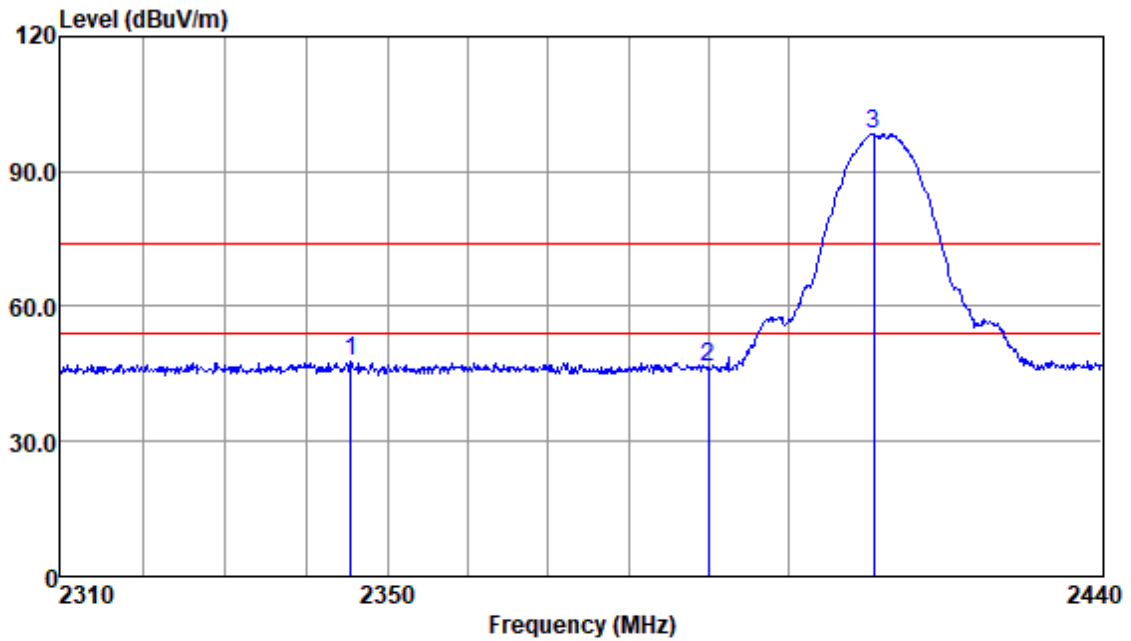
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

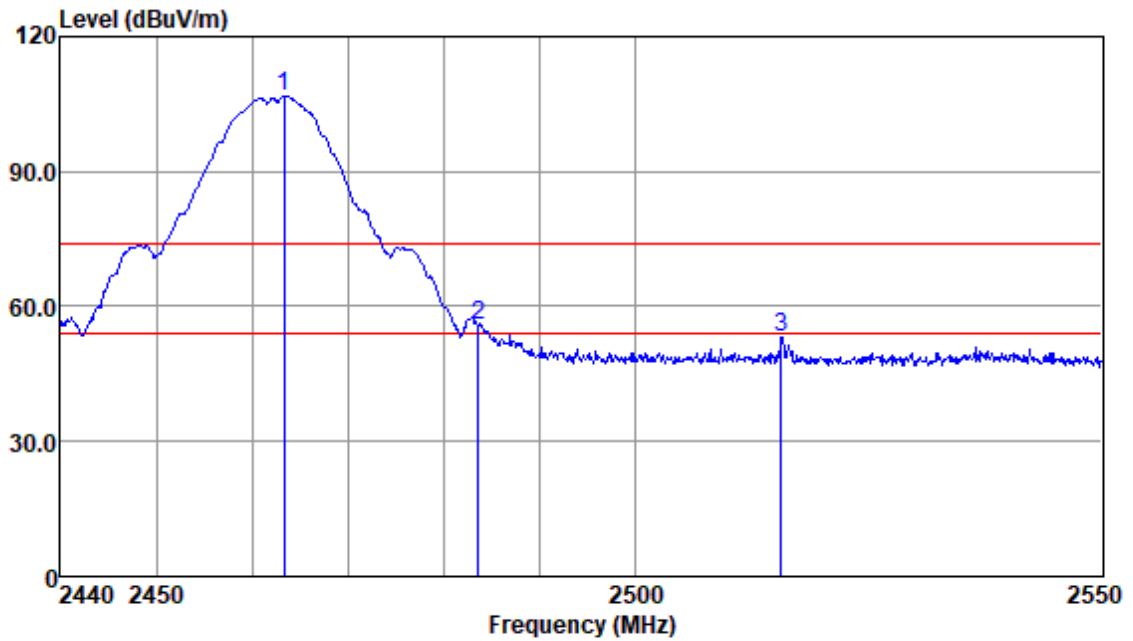
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
2345.56	51.20	28.87	2.72	35.14	47.65	74.00	-26.35 Peak
2390.00	49.99	28.97	2.77	35.18	46.55	74.00	-27.45 Peak
2410.92	101.73	29.00	2.79	35.20	98.32	74.00	24.32 Peak

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



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Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
2463.24	29.07	2.86	35.24	106.70	74.00	32.70	Peak
2483.50	29.11	2.88	35.26	55.86	74.00	-18.14	Peak
2515.60	29.24	2.91	35.29	53.06	74.00	-20.94	Peak

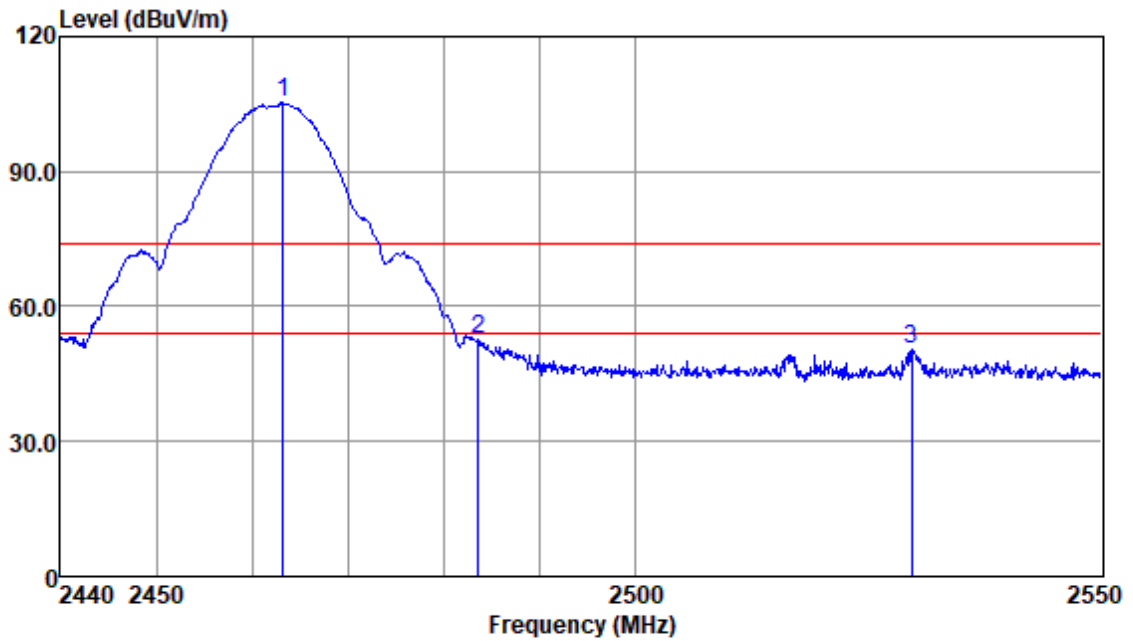
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Cable Preamp Emission Limit Over	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dB	dBuv/m	dBuv/m	dB	
2463.13	108.55	29.07	2.86	35.24	105.24	54.00	51.24	Average	
2483.50	55.98	29.11	2.88	35.26	52.71	54.00	-1.29	Average	
2529.51	53.56	29.31	2.92	35.31	50.48	54.00	-3.52	Average	

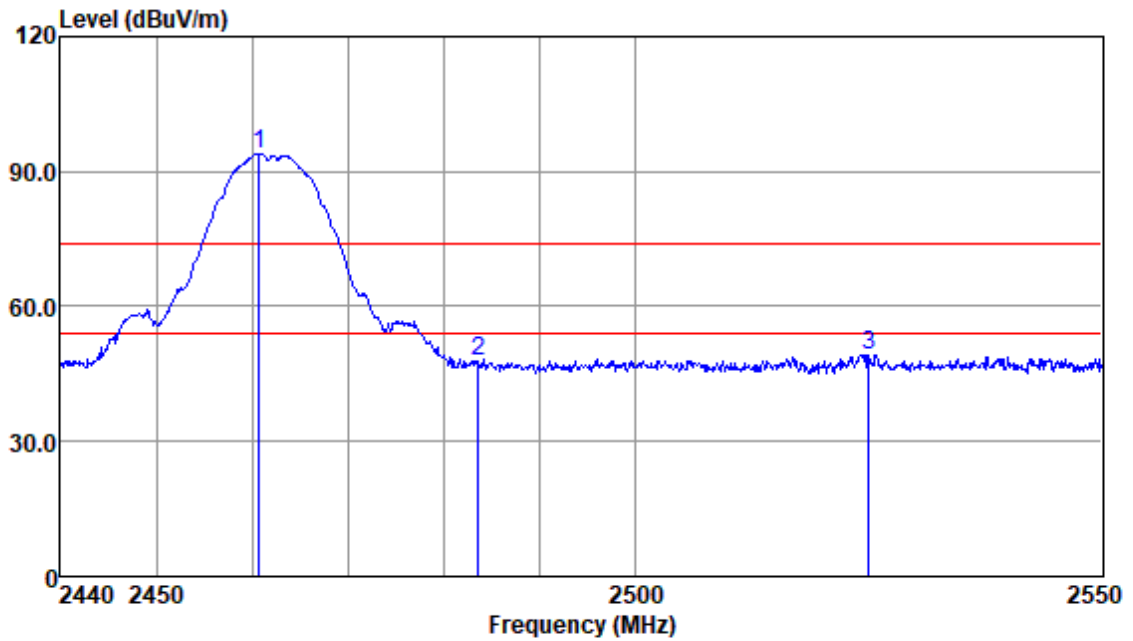
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

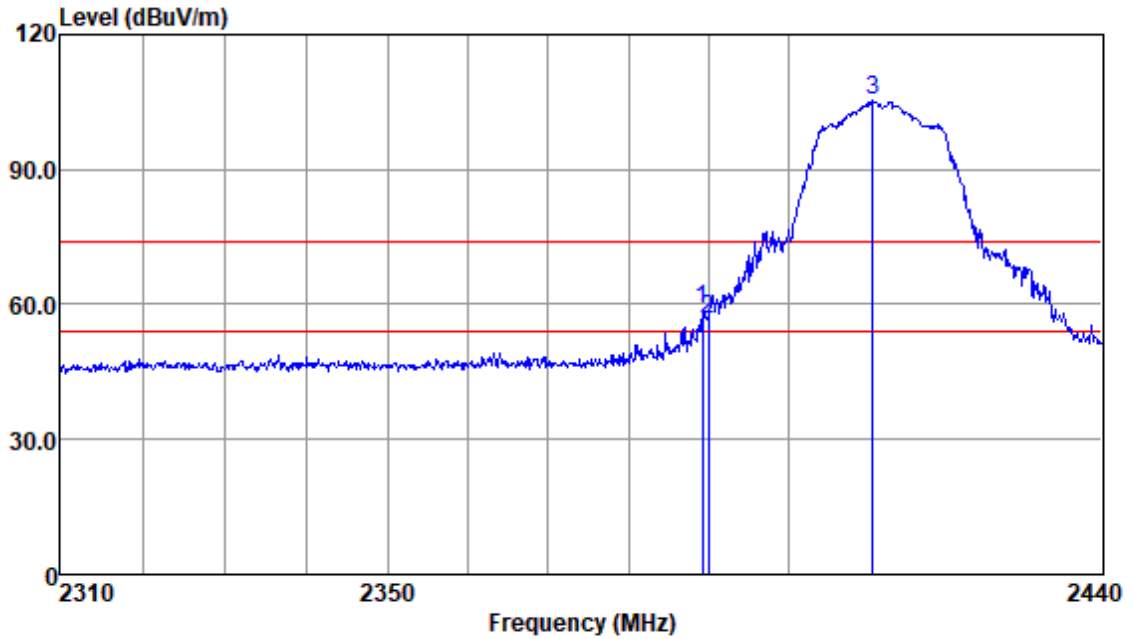
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit	Over	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2460.64	97.35	29.07	2.86	35.24	94.04	74.00	20.04	Peak
2483.50	51.31	29.11	2.88	35.26	48.04	74.00	-25.96	Peak
2524.94	52.39	29.26	2.91	35.30	49.26	74.00	-24.74	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

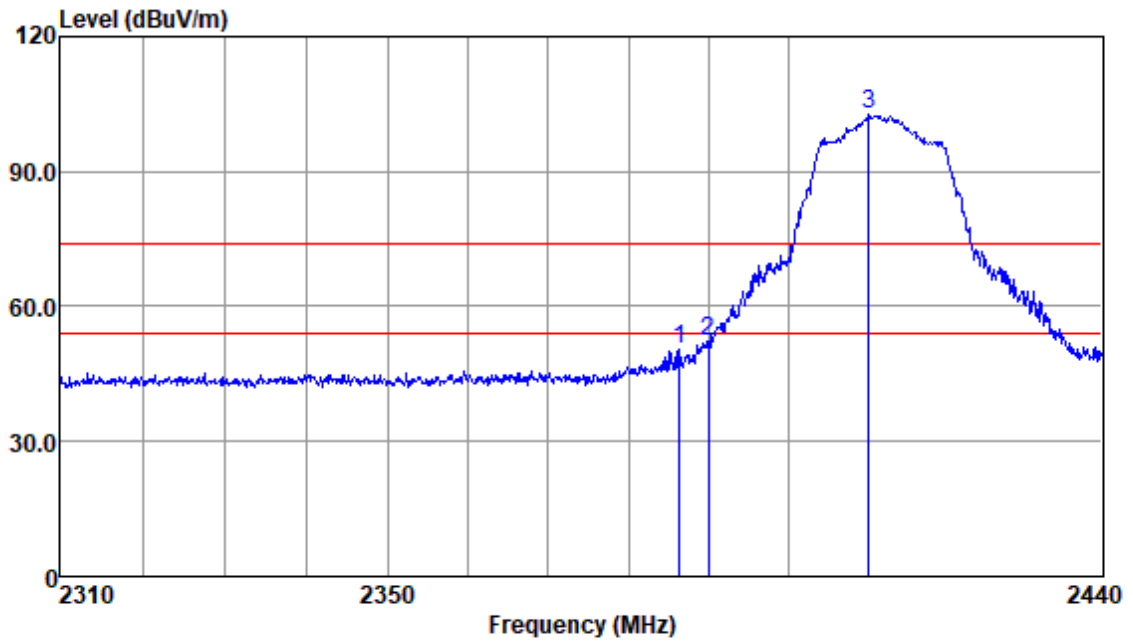
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.24	62.36	28.97	2.77	35.18	58.92	74.00	-15.08	Peak
2390.00	59.93	28.97	2.77	35.18	56.49	74.00	-17.51	Peak
2410.79	108.67	29.00	2.79	35.20	105.26	74.00	31.26	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:g; 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	
2386.36	53.99	28.97	2.77	35.18	50.55	54.00	-3.45	Average
2390.00	55.60	28.97	2.77	35.18	52.16	54.00	-1.84	Average
2410.26	106.27	29.00	2.79	35.20	102.86	54.00	48.86	Average

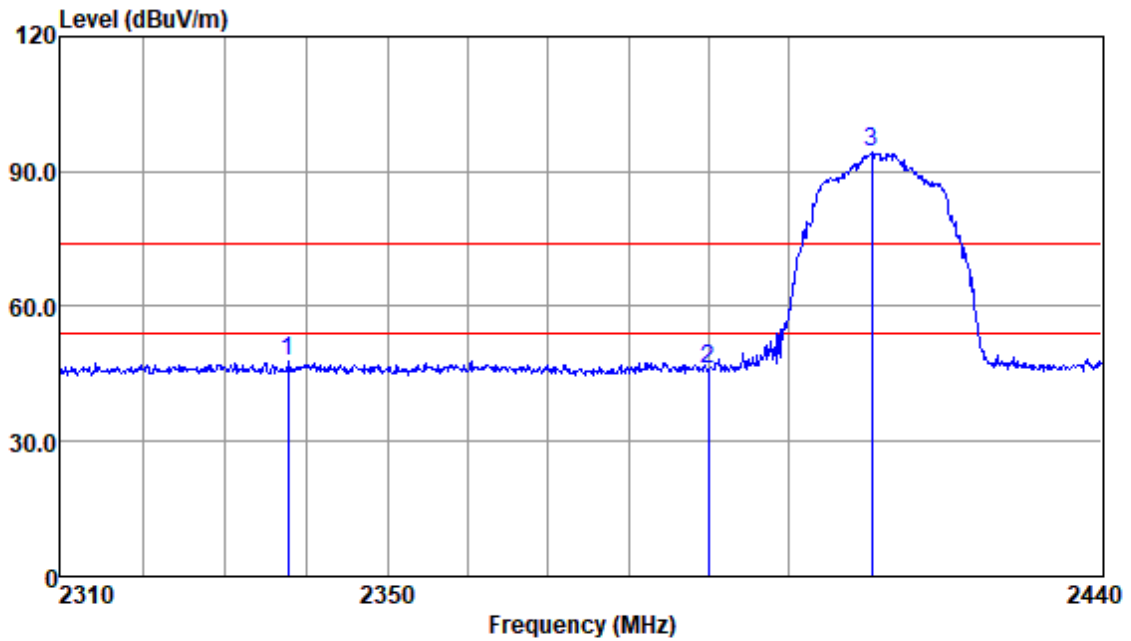
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

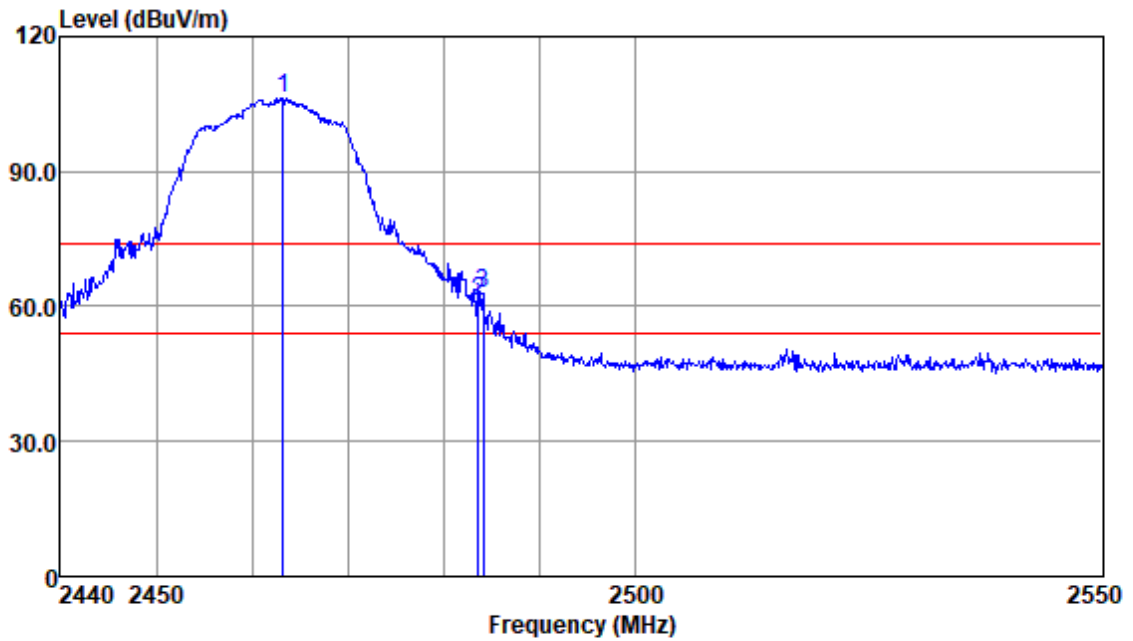
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
2337.74	51.52	28.86	2.71	35.14	47.95	74.00	-26.05 Peak
2390.00	49.30	28.97	2.77	35.18	45.86	74.00	-28.14 Peak
2410.65	97.63	29.00	2.79	35.20	94.22	74.00	20.22 Peak

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



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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Cable Preamp Emission Limit Over							
Level	Factor Loss Factor Level Line Limit Remark							
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.13	109.68	29.07	2.86	35.24	106.37	74.00	32.37	Peak
2483.50	64.24	29.11	2.88	35.26	60.97	74.00	-13.03	Peak
2484.08	66.25	29.11	2.88	35.26	62.98	74.00	-11.02	Peak

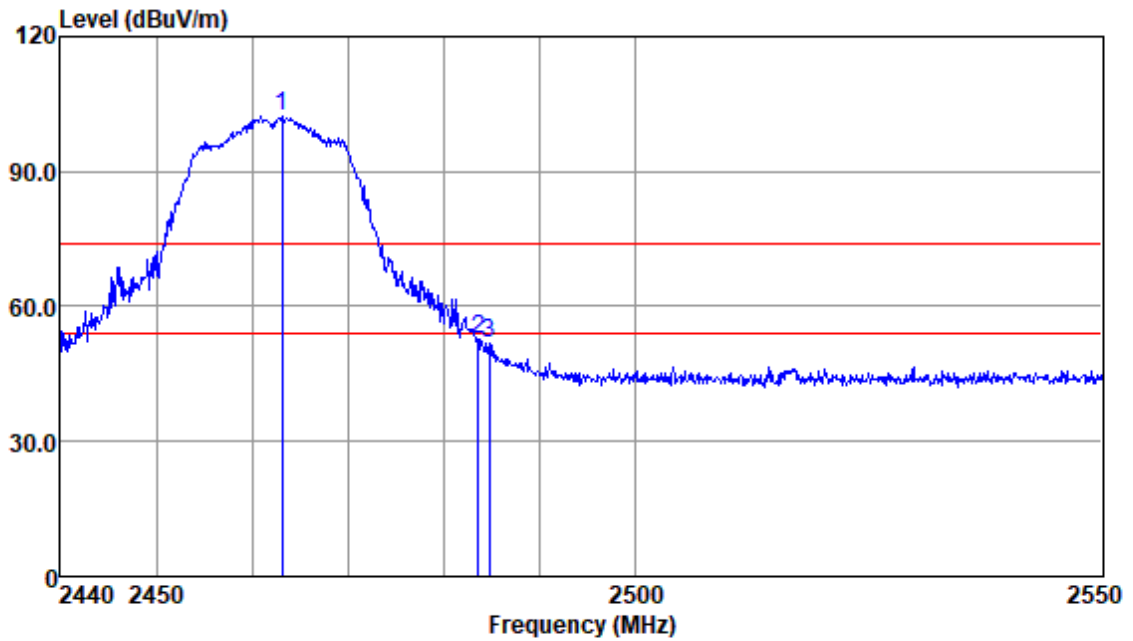
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

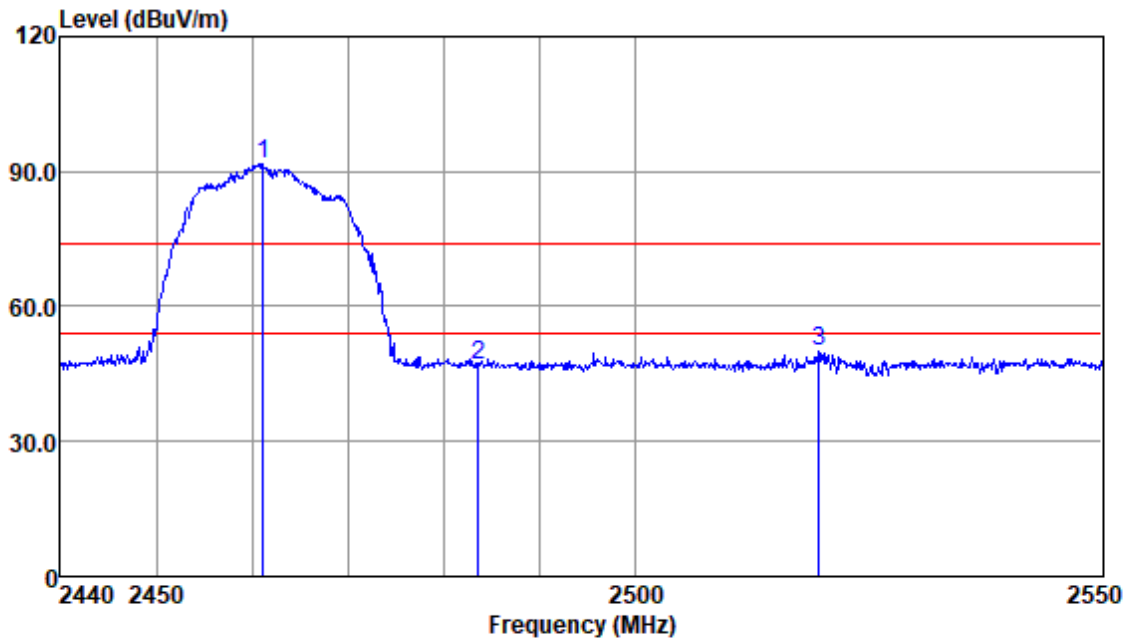
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.03	105.80	29.07	2.86	35.24	102.49	54.00	48.49	Average
2483.50	56.13	29.11	2.88	35.26	52.86	54.00	-1.14	Average
2484.73	55.25	29.11	2.88	35.26	51.98	54.00	-2.02	Average

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



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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

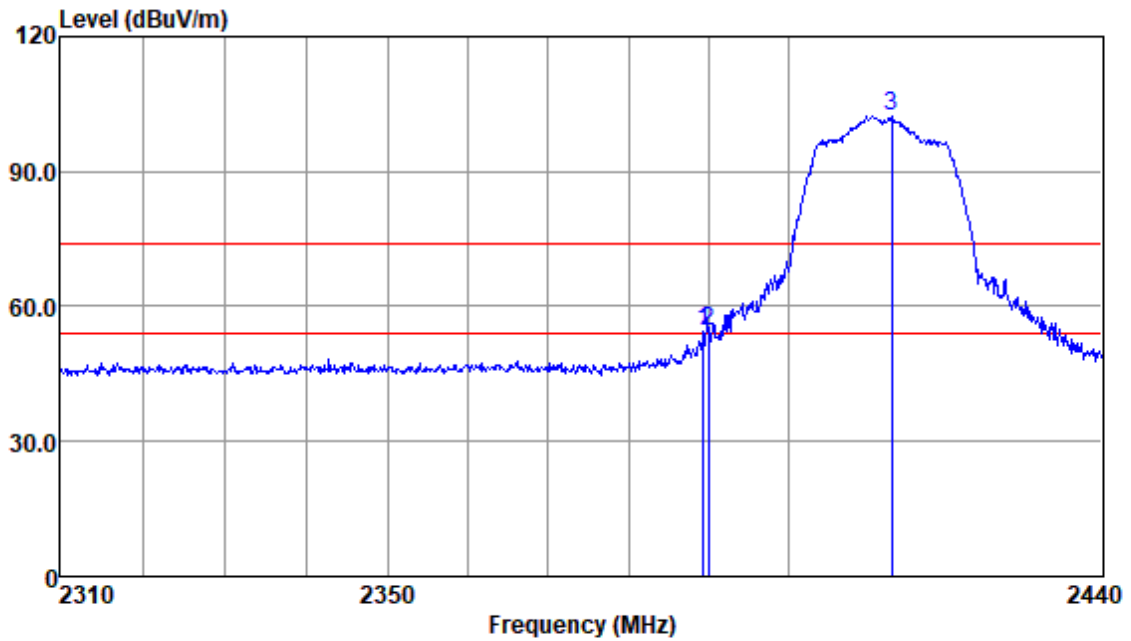
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2461.07	94.90	29.07	2.86	35.24	91.59	74.00	17.59	Peak
2483.50	50.28	29.11	2.88	35.26	47.01	74.00	-26.99	Peak
2519.60	53.17	29.26	2.91	35.30	50.04	74.00	-23.96	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

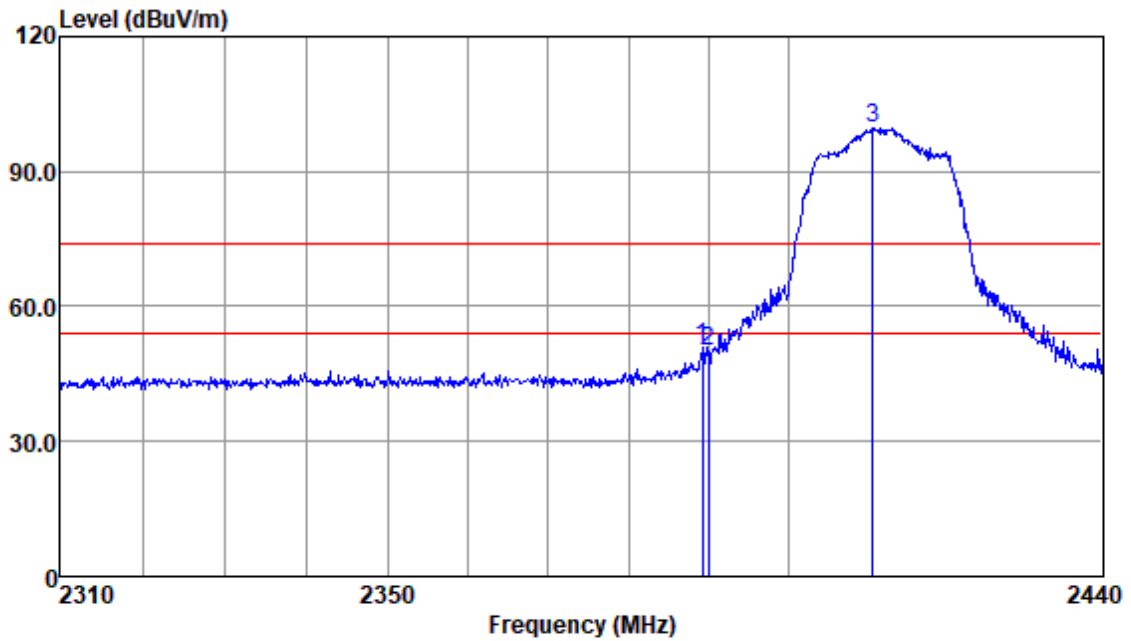
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
2389.37	57.91	28.97	2.77	35.18	54.47	74.00	-19.53 Peak
2390.00	58.02	28.97	2.77	35.18	54.58	74.00	-19.42 Peak
2413.16	105.73	29.02	2.80	35.20	102.35	74.00	28.35 Peak

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



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

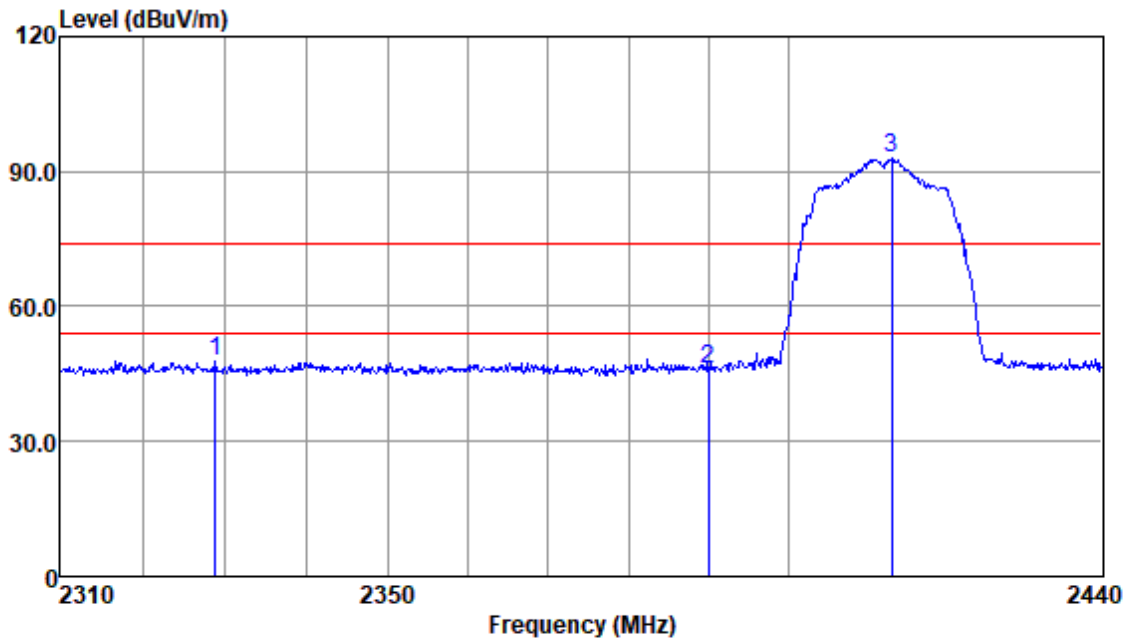
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.24	54.37	28.97	2.77	35.18	50.93	54.00	-3.07	Average
2390.00	53.43	28.97	2.77	35.18	49.99	54.00	-4.01	Average
2410.79	102.98	29.00	2.79	35.20	99.57	54.00	45.57	Average

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



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

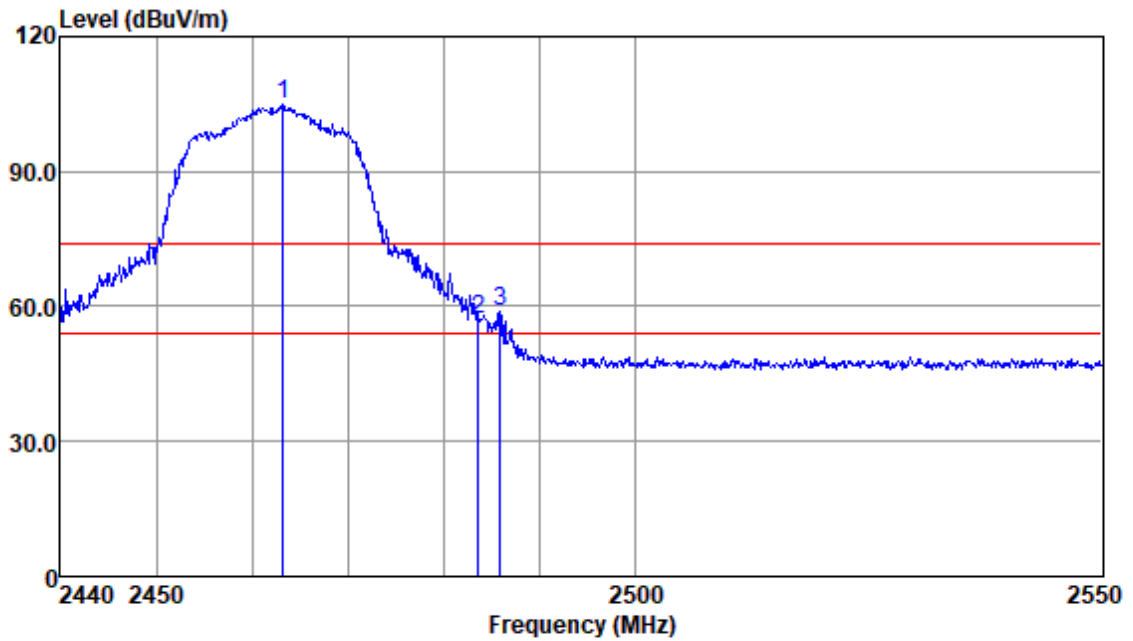
Read Freq	Antenna Cable	Preamp	Emission	Limit	Over	Remark		
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	dB
2328.92	51.47	28.83	2.70	35.13	47.87	74.00	-26.13	Peak
2390.00	49.36	28.97	2.77	35.18	45.92	74.00	-28.08	Peak
2413.16	96.26	29.02	2.80	35.20	92.88	74.00	18.88	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Cable Preamp Emission Limit Over							
Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB		
2463.13	108.41	29.07	2.86	35.24	105.10	74.00	31.10	Peak
2483.50	60.46	29.11	2.88	35.26	57.19	74.00	-16.81	Peak
2485.83	62.13	29.11	2.88	35.26	58.86	74.00	-15.14	Peak

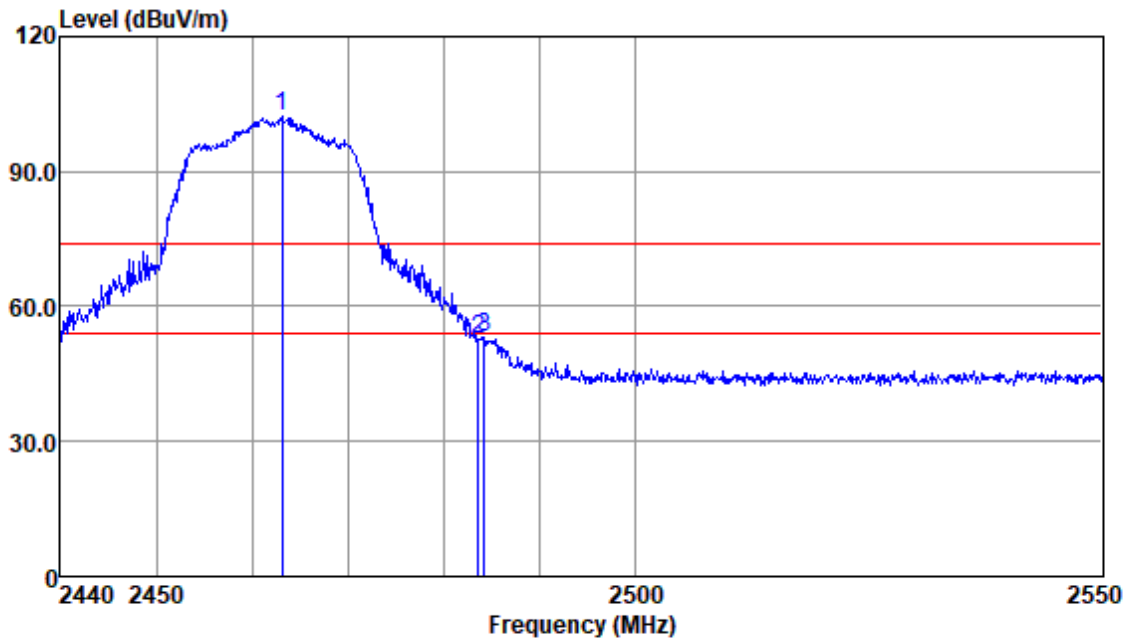
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

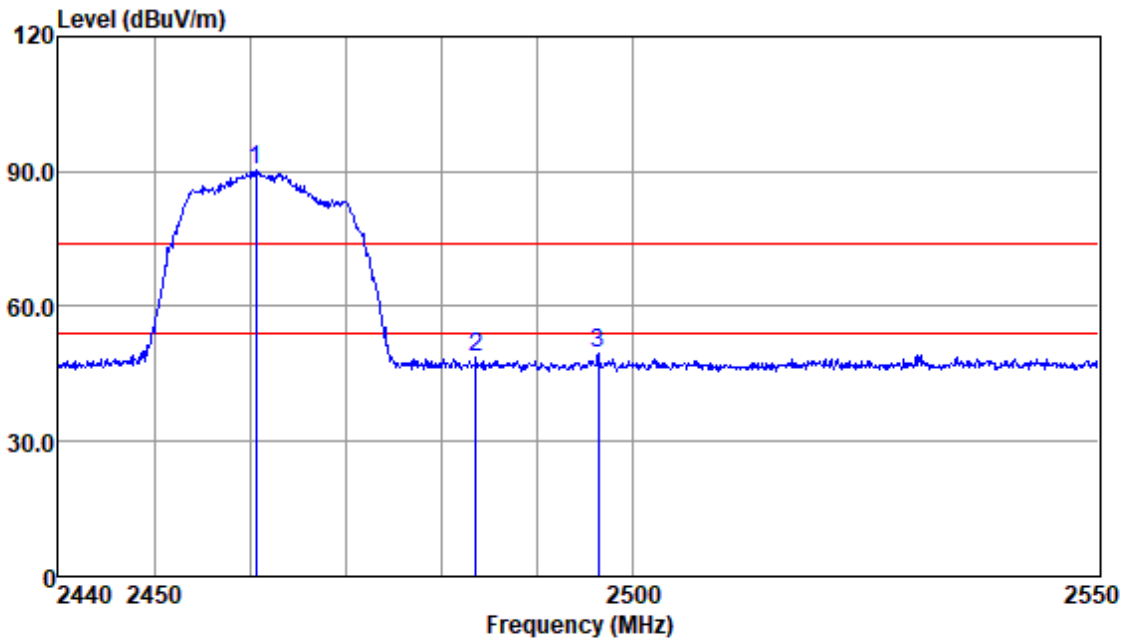
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.03	105.65	29.07	2.86	35.24	102.34	54.00	48.34	Average
2483.50	55.81	29.11	2.88	35.26	52.54	54.00	-1.46	Average
2484.19	56.27	29.11	2.88	35.26	53.00	54.00	-1.00	Average

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



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Mode:a; Polarization:Vertical; Modulation:n; 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	
2460.53	93.52	29.07	2.86	35.24	90.21	74.00	16.21	Peak
2483.50	52.11	29.11	2.88	35.26	48.84	74.00	-25.16	Peak
2496.48	53.02	29.14	2.90	35.27	49.79	74.00	-24.21	Peak

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



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### 7.8 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

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.



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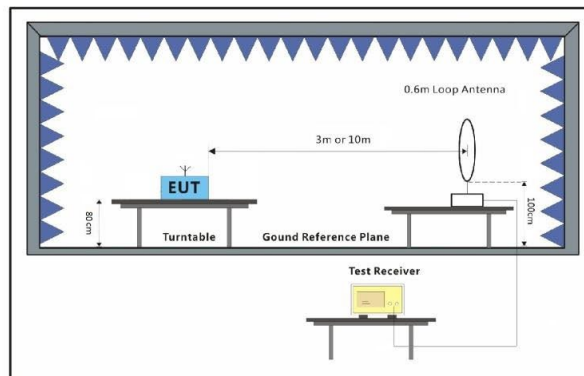
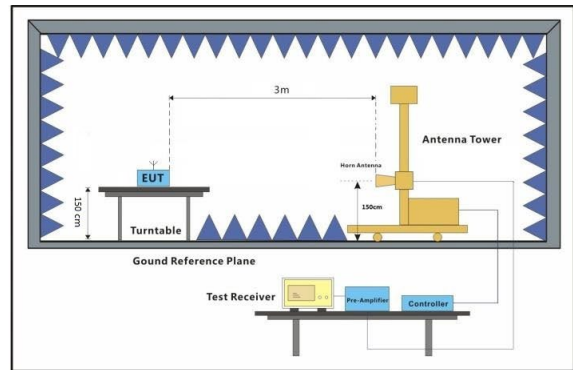
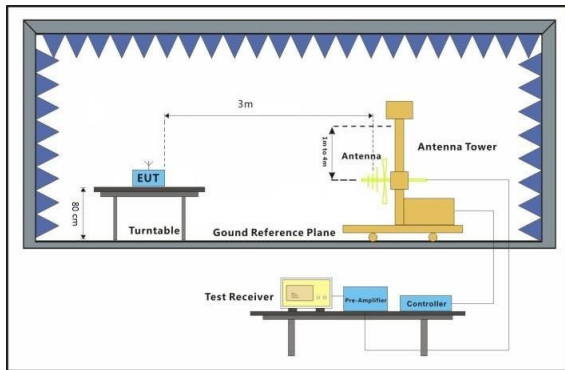
### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode a: 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.

### 7.8.2 Test Setup Diagram



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### 7.8.3 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 middle 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) For emission below 1GHz, 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 & Pre-amplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Pre-amplifier Factor

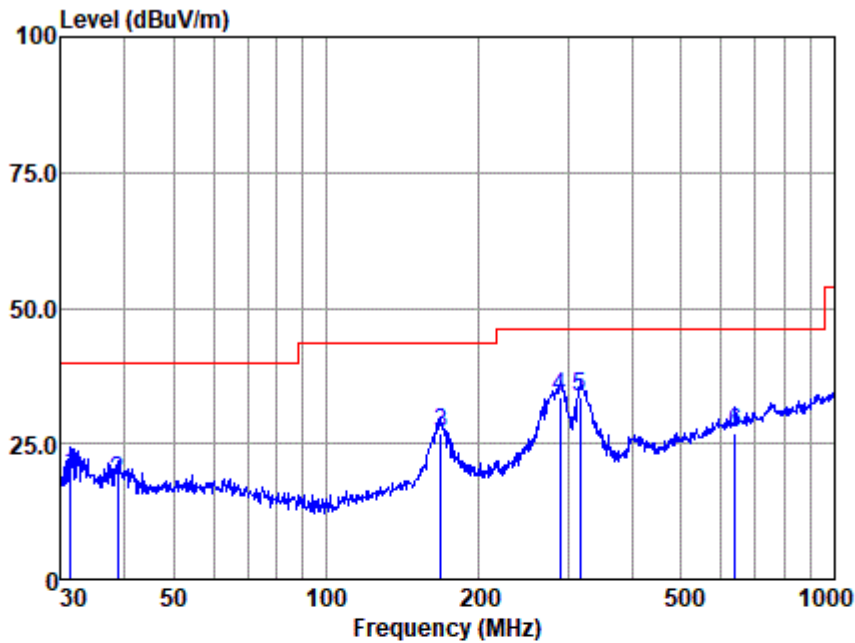
3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

4) 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



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Below 1GHz



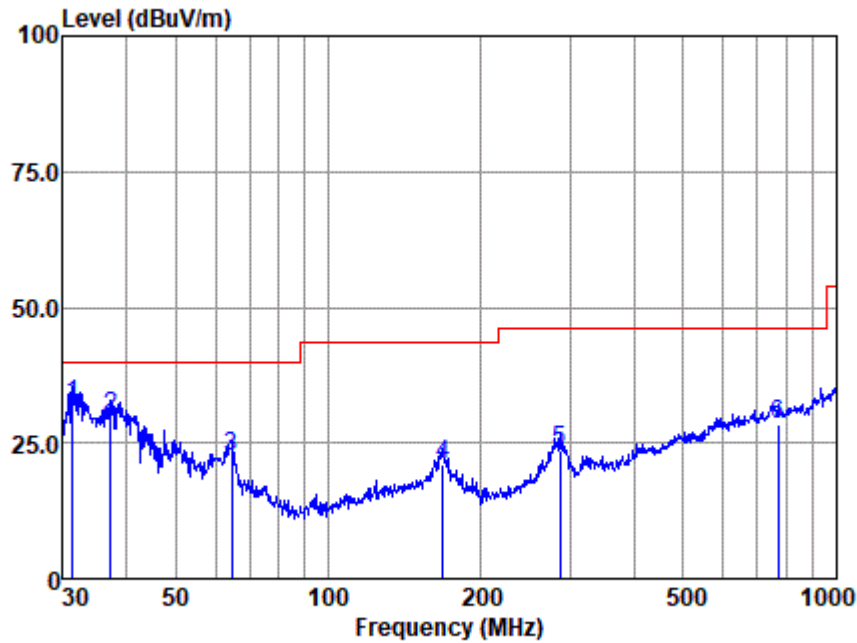
Antenna Polarity :HORIZONTAL  
 EUT/Project :00712ME  
 Test mode :a

	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	
1	31.289	38.06	12.25	0.80	31.79	19.32	40.00	-20.68	QP
2	38.888	36.02	13.03	0.87	31.98	17.94	40.00	-22.06	QP
3	167.824	43.37	12.89	1.97	31.27	26.96	43.50	-16.54	QP
4	287.990	49.04	13.01	2.78	31.30	33.53	46.00	-12.47	QP
5	316.589	47.82	13.78	2.89	31.06	33.43	46.00	-12.57	QP
6	638.369	33.50	20.15	4.04	30.92	26.77	46.00	-19.23	QP

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



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Antenna Polarity : VERTICAL  
 EUT/Project : 00712ME  
 Test mode : a

	Read	Antenna	Cable	Preamp	Emission	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	31.289	51.02	12.25	0.80	31.79	32.28	40.00	-7.72	QP
2	37.285	48.10	12.78	0.84	31.93	29.79	40.00	-10.21	QP
3	64.433	40.26	12.46	1.16	31.44	22.44	40.00	-17.56	QP
4	167.824	37.30	12.89	1.97	31.27	20.89	43.50	-22.61	QP
5	285.978	39.35	12.96	2.78	31.34	23.75	46.00	-22.25	QP
6	768.748	33.53	22.18	4.43	31.88	28.26	46.00	-17.74	QP

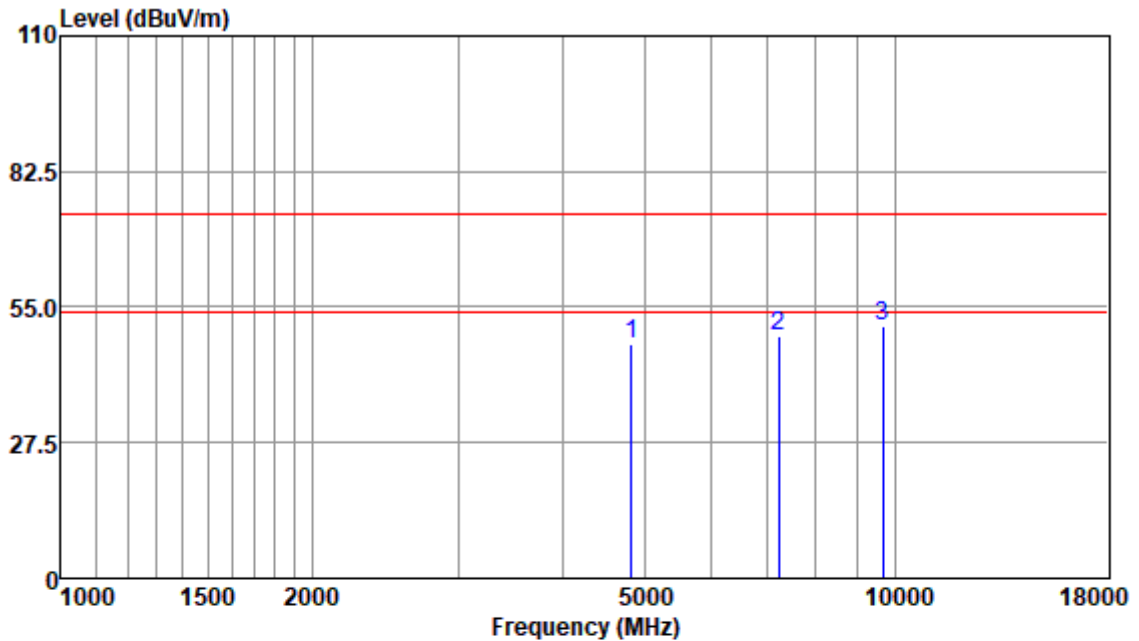
Note: Emission Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



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Above 1GHz

Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	47.61	33.78	5.01	38.73	47.67	74.00	-26.33	Peak
7236.00	44.24	36.35	5.78	37.16	49.21	74.00	-24.79	Peak
9648.00	41.09	37.69	6.65	34.17	51.26	74.00	-22.74	Peak

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

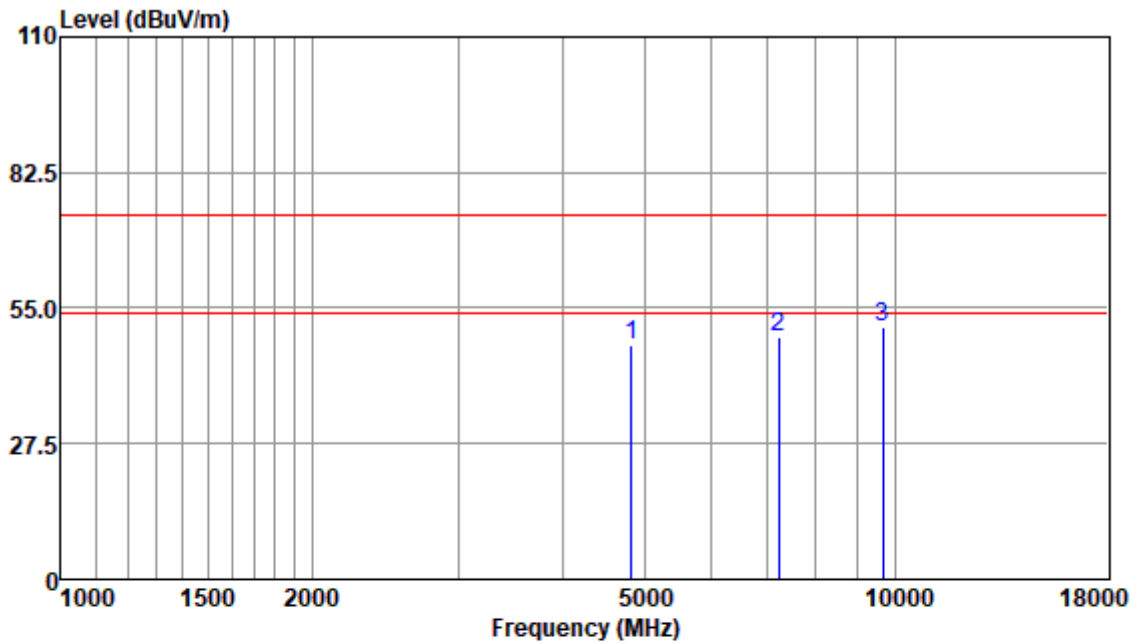


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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

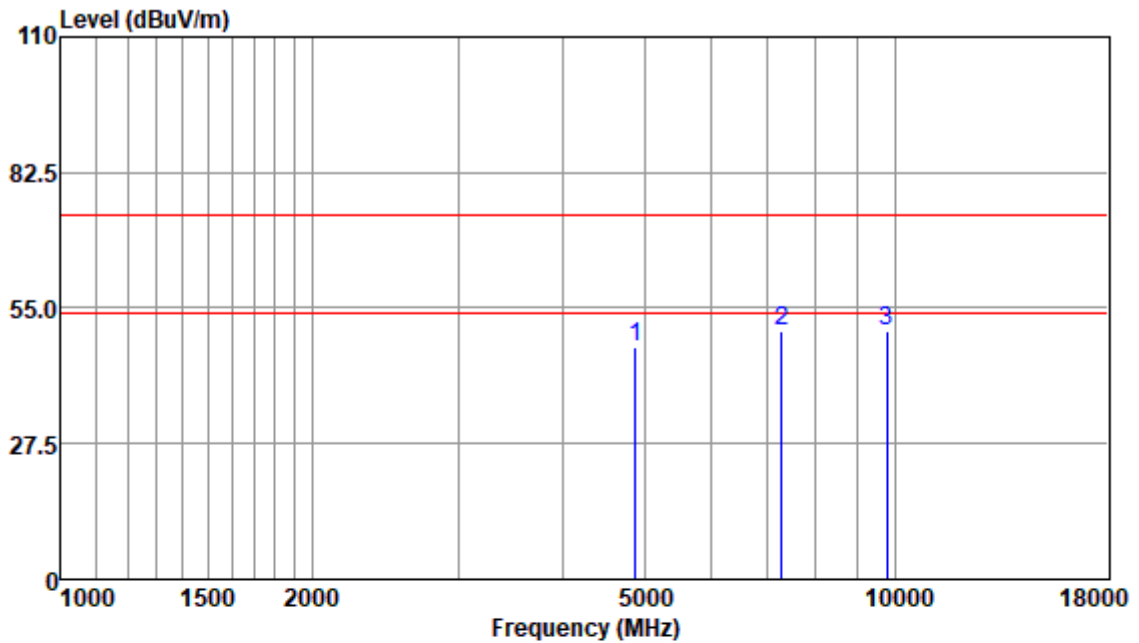
Read Freq	Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	47.61	33.78	5.01	38.73	47.67	74.00	-26.33	Peak
7236.00	44.24	36.35	5.78	37.16	49.21	74.00	-24.79	Peak
9648.00	41.09	37.69	6.65	34.17	51.26	74.00	-22.74	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

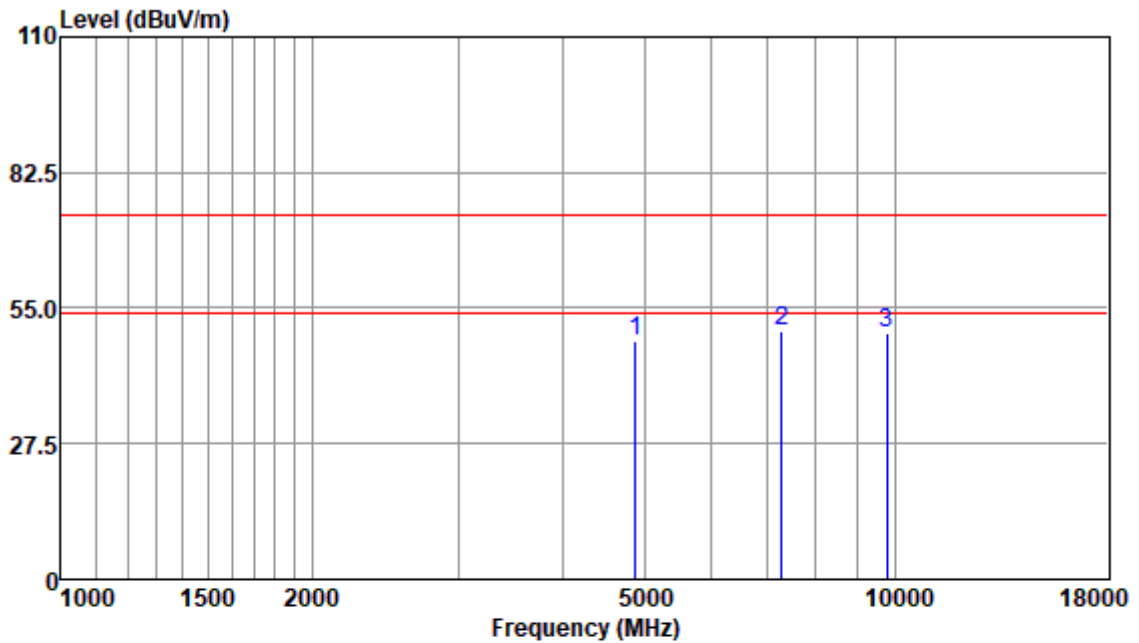
Read Freq	Antenna Cable Preamp Emission Limit Over							
Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB		
4874.00	47.63	33.93	4.48	38.78	47.26	74.00	-26.74	Peak
7311.00	45.10	36.47	5.80	37.11	50.26	74.00	-23.74	Peak
9748.00	40.26	37.68	6.46	34.15	50.25	74.00	-23.75	Peak

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



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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

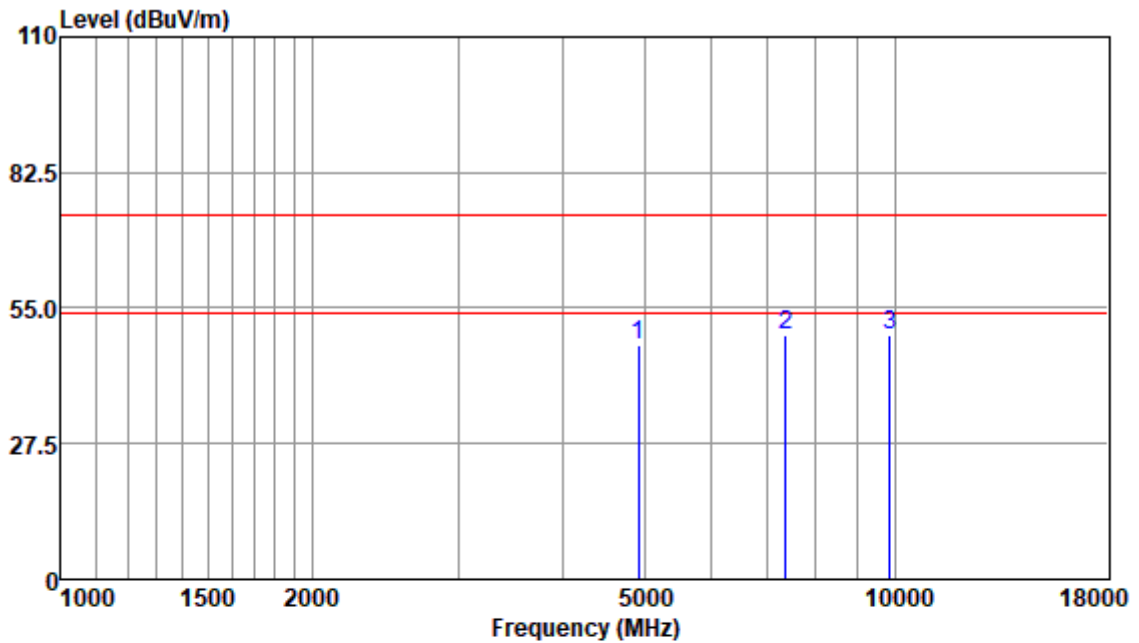
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4874.00	33.93	4.48	38.78	48.25	74.00	-25.75	Peak
7311.00	36.47	5.80	37.11	50.25	74.00	-23.75	Peak
9748.00	37.68	6.46	34.15	49.89	74.00	-24.11	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

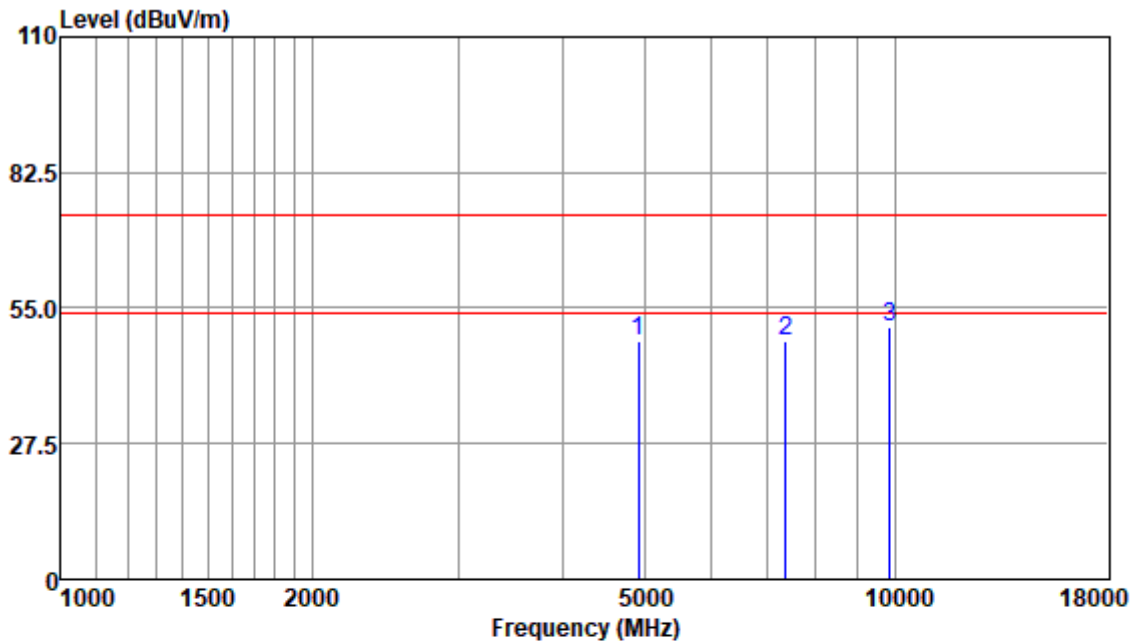
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	33.98	4.30	38.83	47.58	74.00	-26.42	Peak
7386.00	36.48	6.35	37.06	49.59	74.00	-24.41	Peak
9848.00	37.56	6.53	34.13	49.56	74.00	-24.44	Peak

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



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Mode:a; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

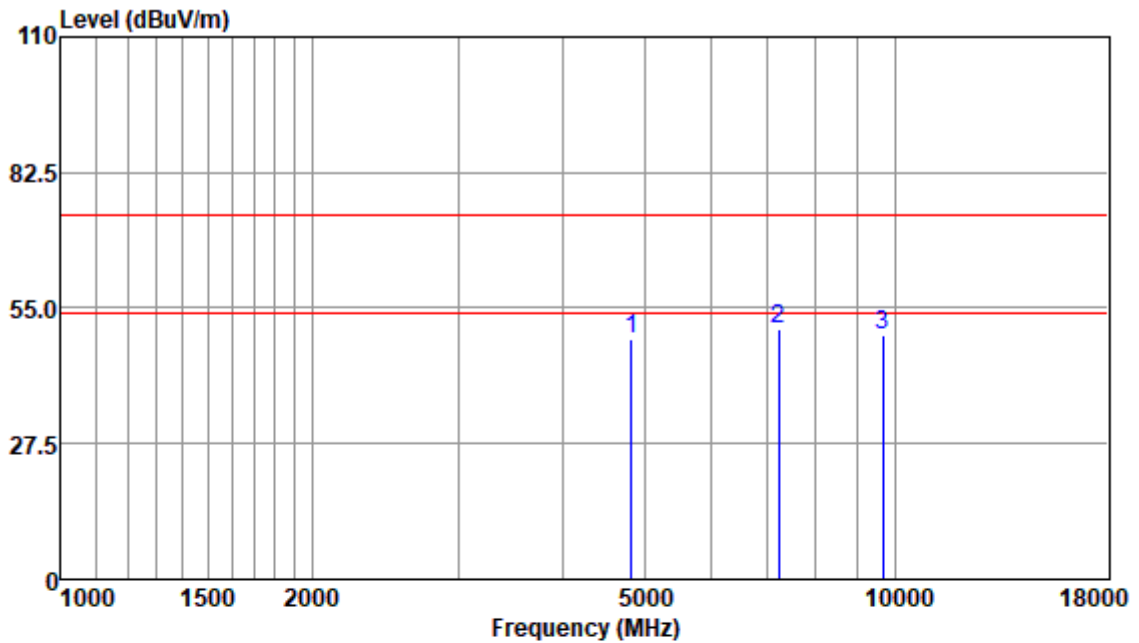
Read Freq	Antenna Cable Preamp Emission Limit Over	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	48.80	33.98	4.30	38.83	48.25	74.00	-25.75	Peak	
7386.00	42.49	36.48	6.35	37.06	48.26	74.00	-25.74	Peak	
9848.00	41.30	37.56	6.53	34.13	51.26	74.00	-22.74	Peak	

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



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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Cable Preamp Emission Limit Over	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	48.52	33.78	5.01	38.73	48.58	74.00	-25.42	Peak	
7236.00	45.59	36.35	5.78	37.16	50.56	74.00	-23.44	Peak	
9648.00	39.39	37.69	6.65	34.17	49.56	74.00	-24.44	Peak	

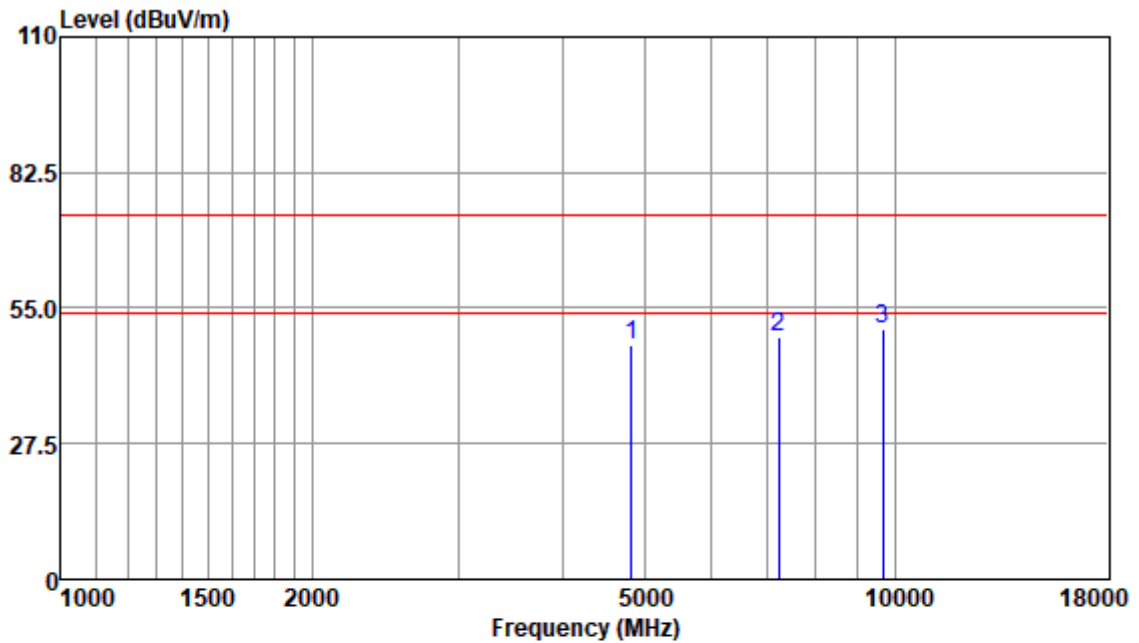
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

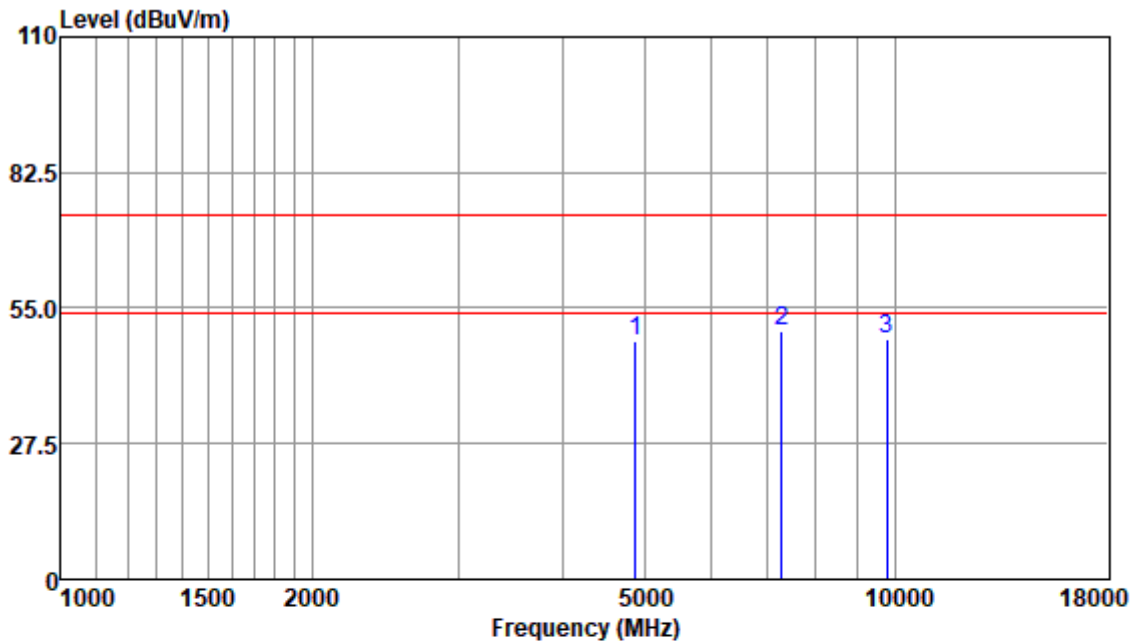
Read Freq	Antenna Cable Preamp Emission Limit Over	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	47.50	33.78	5.01	38.73	47.56	74.00	-26.44	Peak	
7236.00	44.31	36.35	5.78	37.16	49.28	74.00	-24.72	Peak	
9648.00	40.72	37.69	6.65	34.17	50.89	74.00	-23.11	Peak	

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



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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Cable Preamp Emission Limit Over								
Level	Factor	Loss	Factor	Level	Line	Limit	Limit	Remark	
dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dBuv/m	dB		
4874.00	48.62	33.93	4.48	38.78	48.25	74.00	-25.75	Peak	
7311.00	45.10	36.47	5.80	37.11	50.26	74.00	-23.74	Peak	
9748.00	38.59	37.68	6.46	34.15	48.58	74.00	-25.42	Peak	

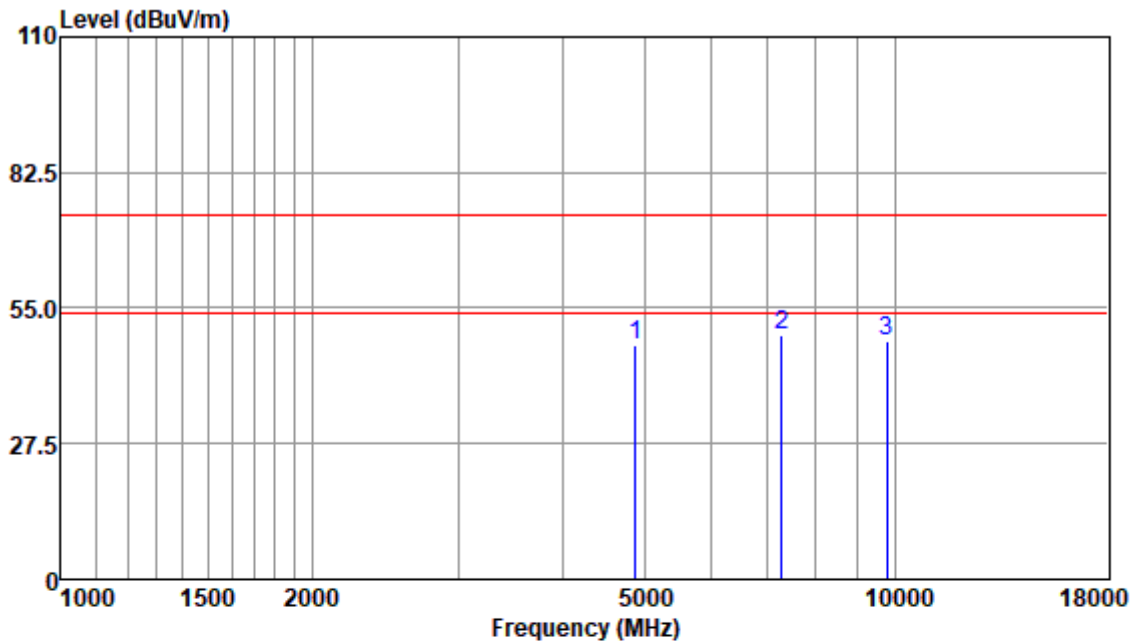
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

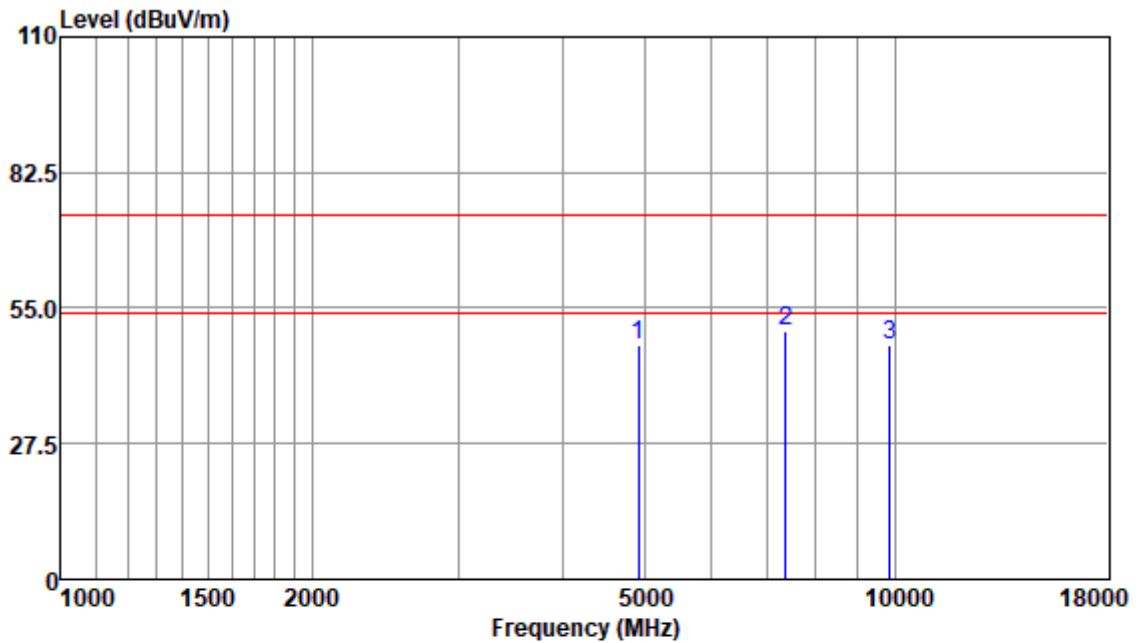
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
4874.00	47.93	33.93	4.48	38.78	47.56	74.00	-26.44 Peak
7311.00	44.40	36.47	5.80	37.11	49.56	74.00	-24.44 Peak
9748.00	38.25	37.68	6.46	34.15	48.24	74.00	-25.76 Peak

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



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Mode:a; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

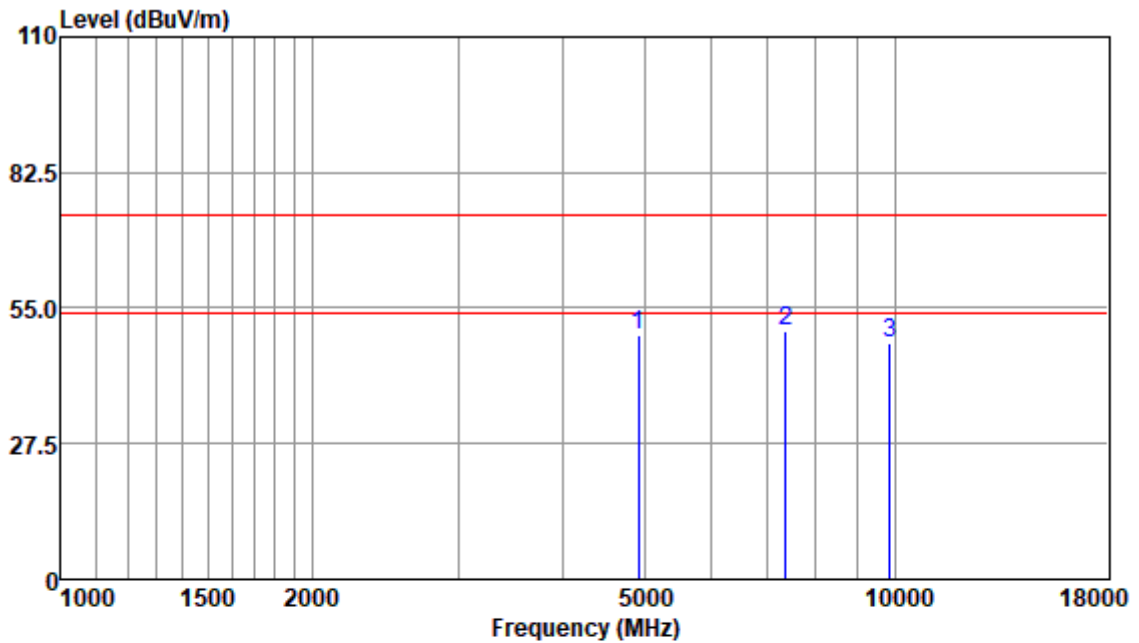
Read Freq	Antenna Level	Cable Factor	Preamp Loss	Emission Factor	Limit Level	Over Line	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB
4924.00	48.13	33.98	4.30	38.83	47.58	74.00	-26.42 Peak
7386.00	44.49	36.48	6.35	37.06	50.26	74.00	-23.74 Peak
9848.00	37.62	37.56	6.53	34.13	47.58	74.00	-26.42 Peak

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



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Mode:a; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

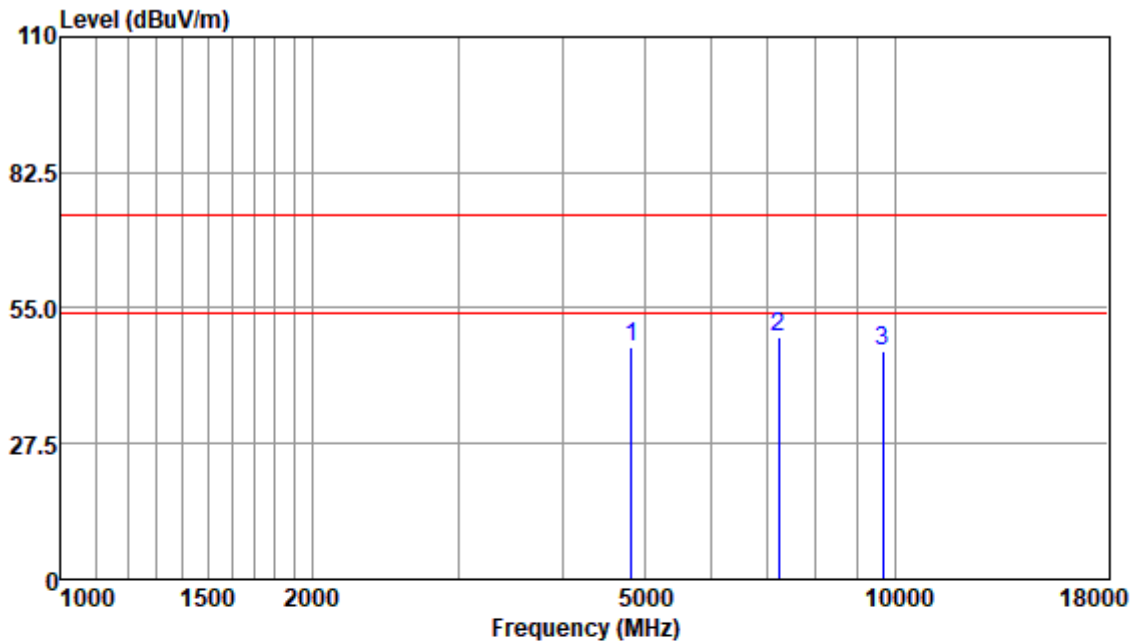
Read Freq	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4924.00	33.98	4.30	38.83	49.56	74.00	-24.44	Peak
7386.00	36.48	6.35	37.06	50.14	74.00	-23.86	Peak
9848.00	37.56	6.53	34.13	47.95	74.00	-26.05	Peak

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



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity :HORIZONTAL

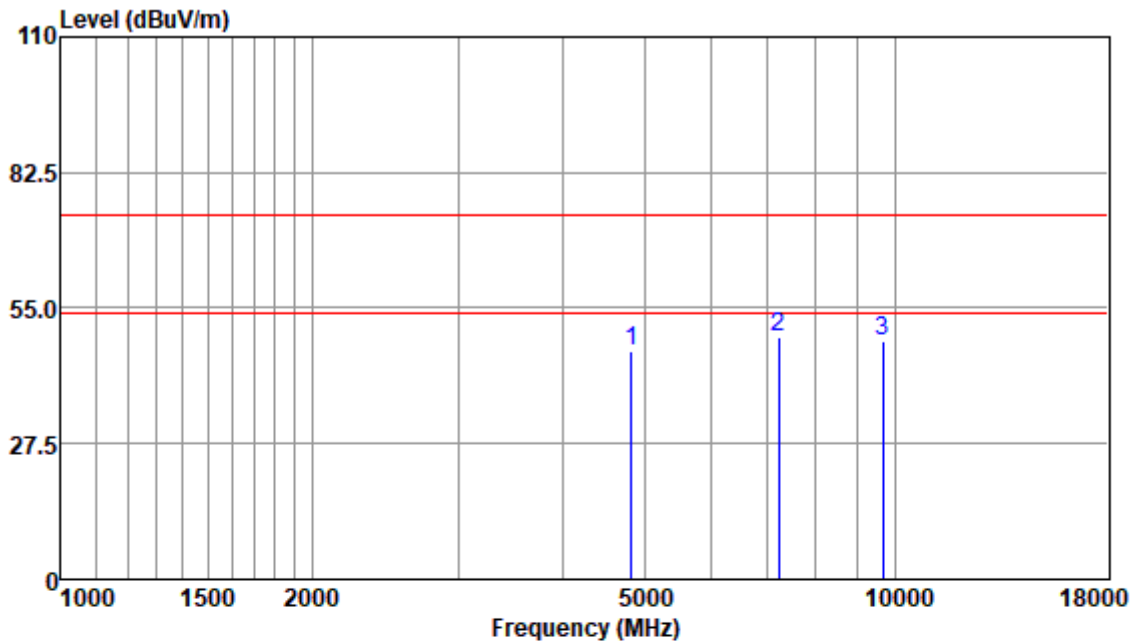
Read Freq	Antenna Cable Preamp Emission Limit Over	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	47.20	33.78	5.01	38.73	47.26	74.00	-26.74	Peak	
7236.00	44.27	36.35	5.78	37.16	49.24	74.00	-24.76	Peak	
9648.00	36.09	37.69	6.65	34.17	46.26	74.00	-27.74	Peak	

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



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity :VERTICAL

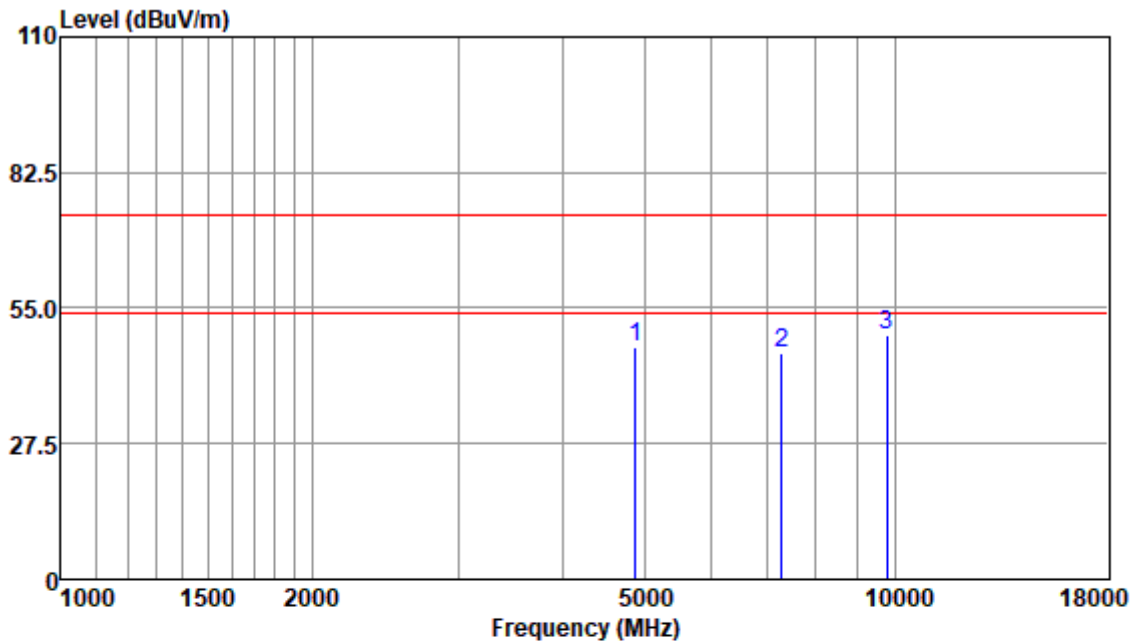
Read Freq	Antenna Cable	Preamp	Emission	Limit	Over	Remark
MHz	Factor	Loss	Level	Line	Limit	
dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
4824.00	33.78	5.01	38.73	46.28	74.00	-27.72 Peak
7236.00	36.35	5.78	37.16	49.17	74.00	-24.83 Peak
9648.00	37.69	6.65	34.17	48.25	74.00	-25.75 Peak

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



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



Antenna Polarity :HORIZONTAL

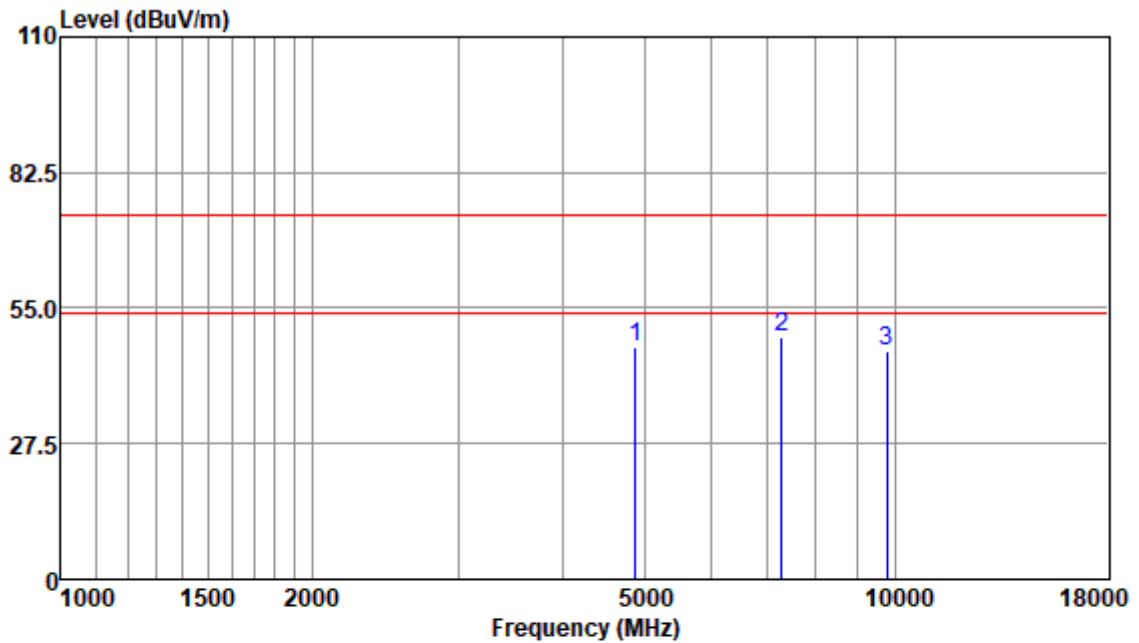
Read Freq	Antenna Cable Preamp Emission Limit Over								
MHz	Level	Factor	Loss	Factor	Level	Line	Limit	dB	Remark
4874.00	47.63	33.93	4.48	38.78	47.26	74.00	-26.74	Peak	
7311.00	40.69	36.47	5.80	37.11	45.85	74.00	-28.15	Peak	
9748.00	39.57	37.68	6.46	34.15	49.56	74.00	-24.44	Peak	

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



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



Antenna Polarity :VERTICAL

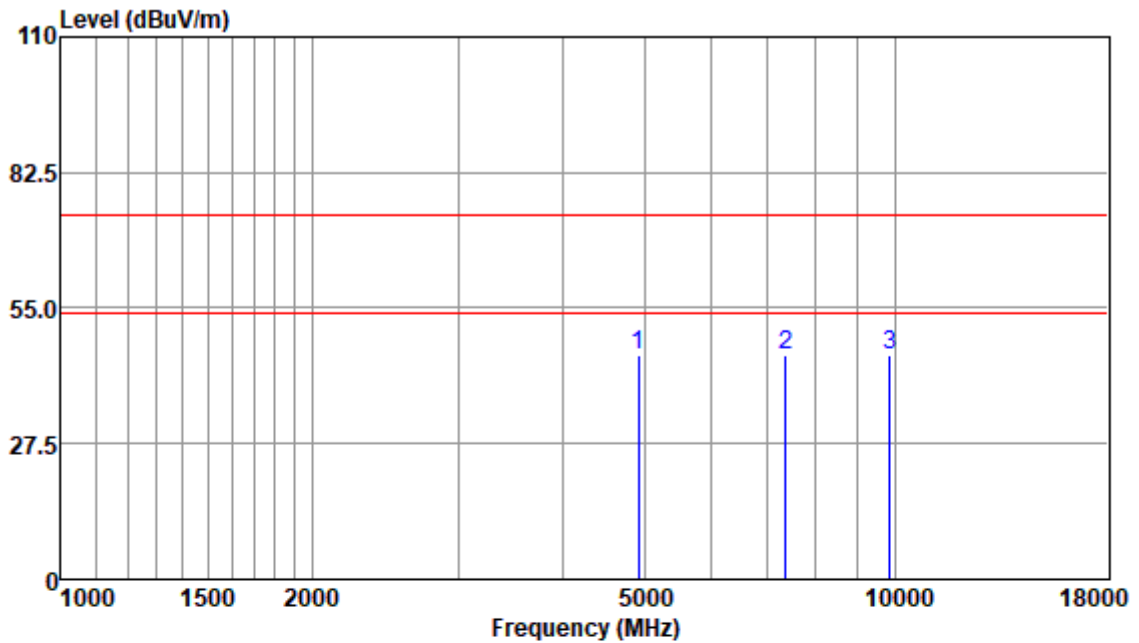
Read Freq	Antenna Cable	Preamp	Emission	Limit	Over	Remark
MHz	Factor	Loss	Level	Line	Limit	
dBuV	dB/m	dB	dB	dBuV/m	dB	
4874.00	33.93	4.48	38.78	47.21	74.00	-26.79 Peak
7311.00	36.47	5.80	37.11	49.28	74.00	-24.72 Peak
9748.00	37.68	6.46	34.15	46.28	74.00	-27.72 Peak

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



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity :HORIZONTAL

Read Freq	Antenna Cable Preamp Emission Limit Over	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB		
4924.00	45.81	33.98	4.30	38.83	45.26	74.00	-28.74	Peak	
7386.00	39.49	36.48	6.35	37.06	45.26	74.00	-28.74	Peak	
9848.00	35.30	37.56	6.53	34.13	45.26	74.00	-28.74	Peak	

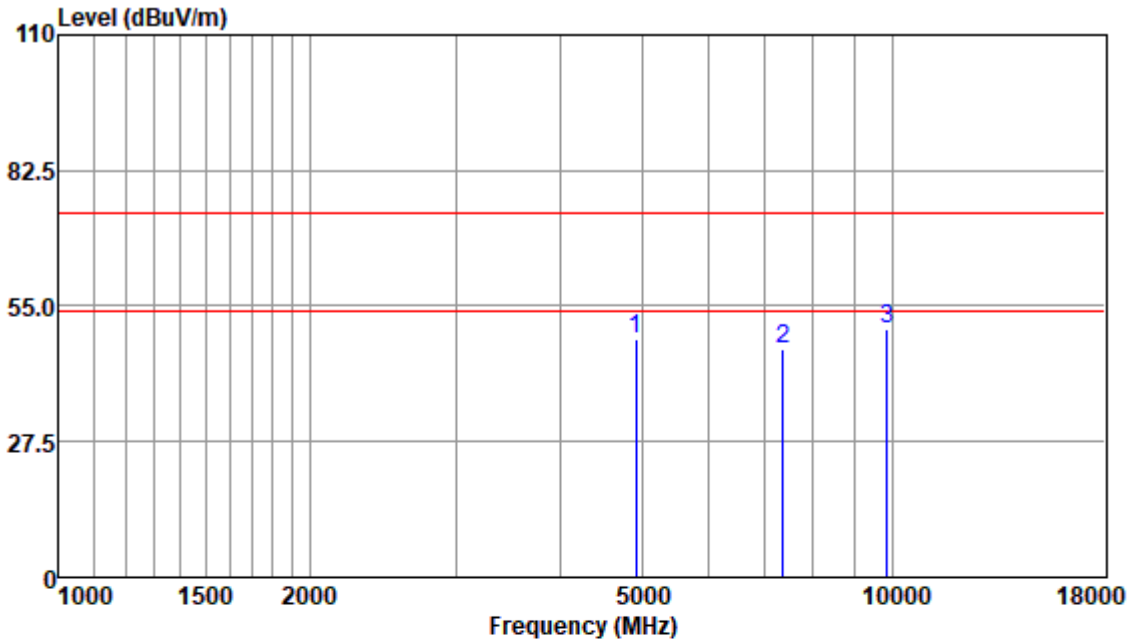
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:a; Polarization:Vertical; Modulation:n; 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	48.83	33.98	4.30	38.83	48.28	74.00	-25.72	Peak
7386.00	40.49	36.48	6.35	37.06	46.26	74.00	-27.74	Peak
9848.00	40.30	37.56	6.53	34.13	50.26	74.00	-23.74	Peak

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



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### 7.9 99% Bandwidth

Test Requirement RSS-Gen Section 6.7  
 Test Method: ANSI C63.10 Section 6.9.3

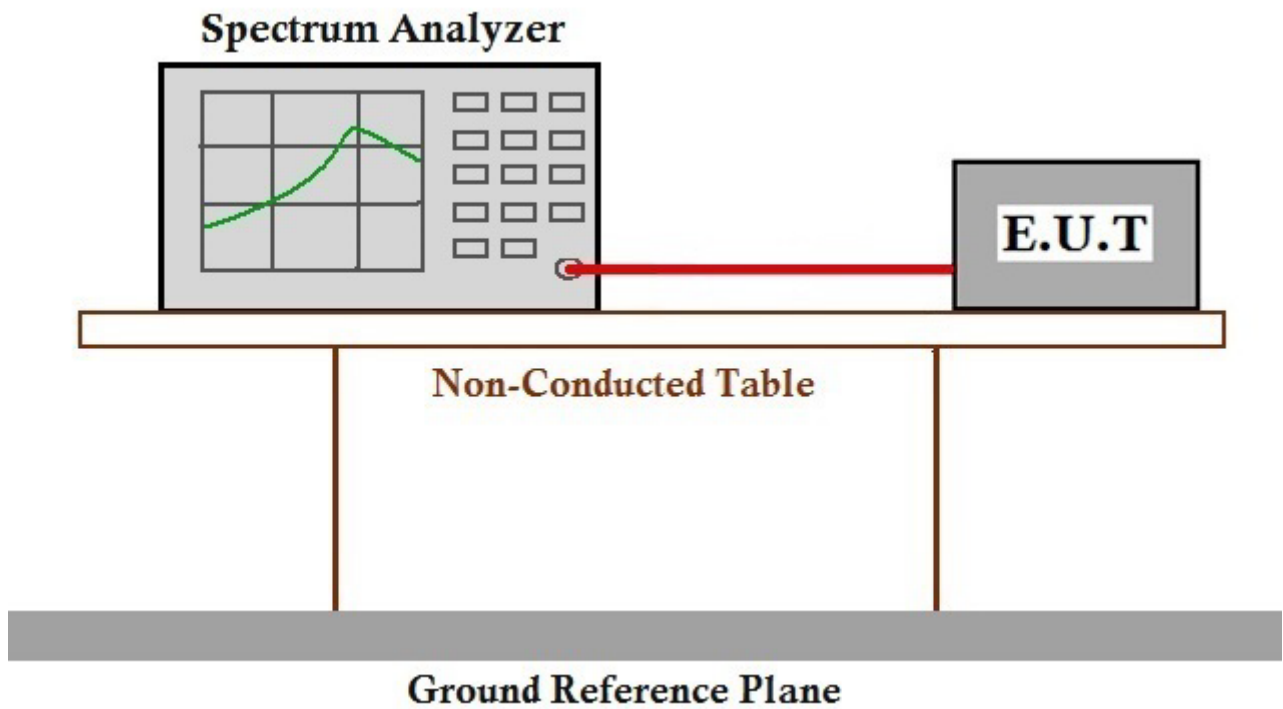
#### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode a: 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.

#### 7.9.2 Test Setup Diagram



#### 7.9.3 Measurement Procedure and Data

The detailed test data see: Appendix A for SHCR211100071201



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## 8 Test Setup Photographs

Refer to the < Test Setup photos-FCC >.

## 9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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