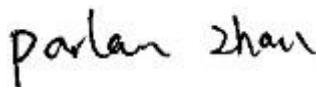


TEST REPORT

Application No.:	SHCR2208001757PV
FCC ID:	2A8S5WE-BTWF
Applicant:	WeCo SRL
Address of Applicant:	Viale Kennedy 113-121 Scarperia e San Piero Firenze, Italy
Manufacturer:	WeCo (Guangdong) Energy Storage Technology Co., Ltd
Address of Manufacturer:	Building 1, Nr.2 of Zhengda Road, Chukeng, Dongkeng District, Dongguan City, Guangdong Province, P.R.China
Factory:	WeCo (Guangdong) Energy Storage Technology Co., Ltd
Address of Factory:	Building 1, Nr.2 of Zhengda Road, Chukeng, Dongkeng District, Dongguan City, Guangdong Province, P.R.China
Equipment Under Test (EUT):	
EUT Name:	Wi-Fi Module
Model No.:	WE-BTWF
Trade Mark:	
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2022-08-18
Date of Test:	2022-08-26 to 2022-08-29
Date of Issue:	2022-09-14
Test Result:	Pass*

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



Parlam Zhan
Laboratory Manager



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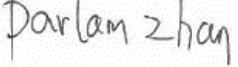
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Revision Record			
Version	Description	Date	Remark
00	Original	2022-09-14	/

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

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2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Average Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.3	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

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3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	6
4.1 DETAILS OF E.U.T	6
4.2 DESCRIPTION OF SUPPORT UNITS	6
4.3 POWER LEVEL SETTING USING IN TEST:	6
4.4 MEASUREMENT UNCERTAINTY & DECISION RULE	7
4.5 TEST LOCATION	7
4.6 TEST FACILITY	8
4.7 DEVIATION FROM STANDARDS	8
4.8 ABNORMALITIES FROM STANDARD CONDITIONS	8
5 EQUIPMENT LIST	9
6 RADIO SPECTRUM TECHNICAL REQUIREMENT	10
6.1 ANTENNA REQUIREMENT	10
6.1.1 Test Requirement:	10
6.1.2 Conclusion	10
7 RADIO SPECTRUM MATTER TEST RESULTS	11
7.1 CONDUCTED AVERAGE OUTPUT POWER	11
7.1.1 E.U.T. Operation	11
7.1.2 Test Mode Description	11
7.1.3 Test Setup Diagram	12
7.1.4 Measurement Procedure and Data	12
7.2 MINIMUM 6DB BANDWIDTH	13
7.2.1 E.U.T. Operation	13
7.2.2 Test Mode Description	13
7.2.3 Test Setup Diagram	13
7.2.4 Measurement Procedure and Data	13
7.3 POWER SPECTRUM DENSITY	14
7.3.1 E.U.T. Operation	14
7.3.2 Test Mode Description	14
7.3.3 Test Setup Diagram	14
7.3.4 Measurement Procedure and Data	14
7.4 CONDUCTED BAND EDGES MEASUREMENT	15
7.4.1 E.U.T. Operation	15
7.4.2 Test Mode Description	15
7.4.3 Test Setup Diagram	16
7.4.4 Measurement Procedure and Data	16
7.5 CONDUCTED SPURIOUS EMISSIONS	17
7.5.1 E.U.T. Operation	17

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7.5.2	Test Mode Description	17
7.5.3	Test Setup Diagram	18
7.5.4	Measurement Procedure and Data	18
7.6	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	19
7.6.1	E.U.T. Operation	19
7.6.2	Test Mode Description	19
7.6.3	Test Setup Diagram	20
7.6.4	Measurement Procedure and Data	20
7.7	RADIATED SPURIOUS EMISSIONS BELOW 1GHz	37
7.7.1	E.U.T. Operation	37
7.7.2	Test Mode Description	37
7.7.3	Test Setup Diagram	38
7.7.4	Measurement Procedure and Data	38
7.8	RADIATED SPURIOUS EMISSIONS ABOVE 1GHz	41
7.8.1	E.U.T. Operation	41
7.8.2	Test Mode Description	41
7.8.3	Test Setup Diagram	41
7.8.4	Measurement Procedure and Data	42
8	TEST SETUP PHOTO	67
9	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	67
10	APPENDIX	67
10.1	APPENDIX A: DTS BANDWIDTH	67
10.1.1	Test Result	67
10.1.2	Test Graphs	68
10.2	APPENDIX B: OCCUPIED CHANNEL BANDWIDTH	74
10.2.1	Test Result	74
10.2.2	Test Graphs	75
10.3	APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER	81
10.3.1	Test Result	81
10.3.2	Test Graphs	82
10.4	APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY	88
10.4.1	Test Result	88
10.4.2	Test Graphs	89
10.5	APPENDIX E: BAND EDGE MEASUREMENTS	95
10.5.1	Test Result	95
10.5.2	Test Graphs	96
10.6	APPENDIX F: CONDUCTED SPURIOUS EMISSION	100
10.6.1	Test Result	100
10.6.2	Test Graphs	101

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 12V
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:	PCB Antenna
Antenna Gain:	3.71dBi (Provided by manufacturer)
	802.11b:1/2/5.5./11Mbps
Date Rate:	802.11g:6/9/12/18/24/36/48/54Mbps 802.11n:MCS0-MCS7

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:

1. 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).

2. 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:

- **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
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2021-12-20	2022-12-19
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2021-12-20	2022-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2022-08-02	2023-08-01
Signal Generator	R&S	SMR20	SHEM006-1	2022-08-02	2023-08-01
Signal Generator	Agilent	N5182A	SHEM182-1	2022-08-02	2023-08-01
Communication Tester	R&S	CMW270	SHEM183-1	2022-07-25	2023-07-24
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2022-08-02	2023-08-01
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2020-04-15	2023-04-14
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
Switcher	Tonscend	JS0806	SHEM184-1	2022-08-02	2023-08-01
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
Coaxial Cable	TST		SHEM263-1	2022-08-02	2023-08-01
Test software	TST	TST PASS	Version: 2.0	/	/
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 PCB antenna and no consideration of replacement. The best case gain of the antenna is 3.7 dBi.

Antenna location: Refer to internal photo.

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7 Radio Spectrum Matter Test Results

7.1 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 ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 52.2 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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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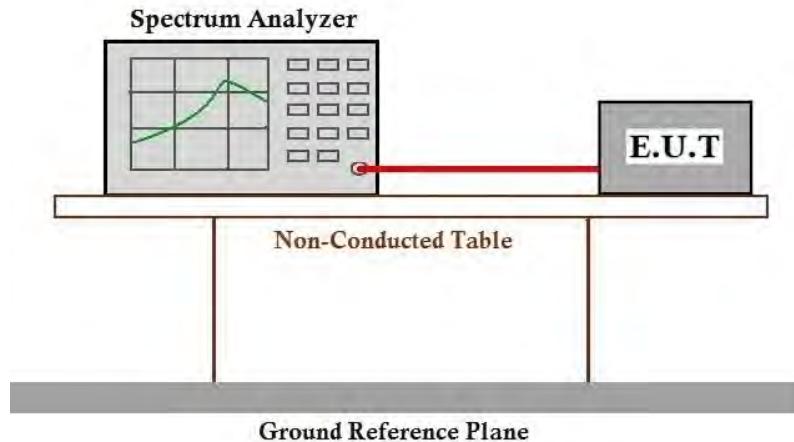
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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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: ≥500 kHz

7.2.1 E.U.T. Operation

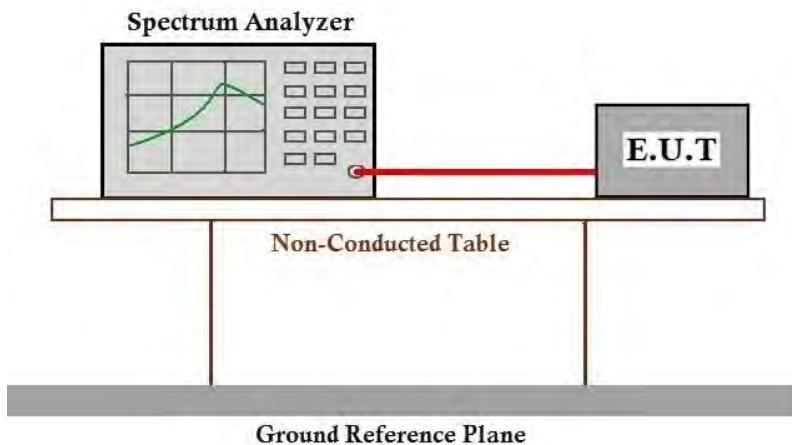
Operating Environment:

Temperature: 24.8 °C Humidity: 52.6 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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7.3 Power Spectrum Density

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

Test Method: ANSI C63.10 (2013) Section 11.10.3

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C

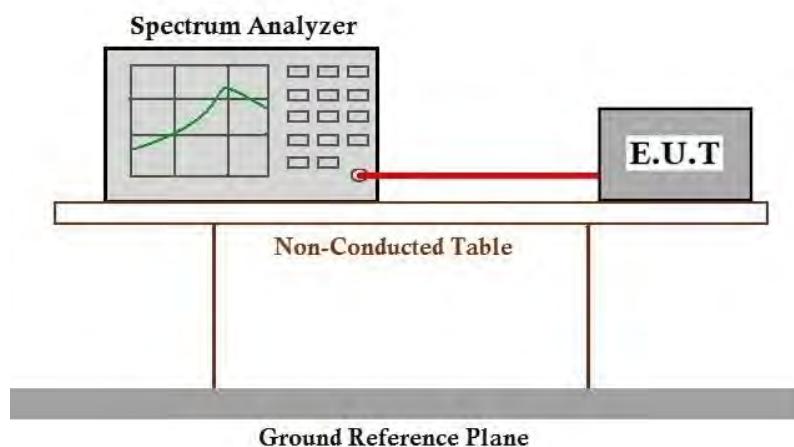
Humidity: 52.8 % RH

Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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



7.3.4 Measurement Procedure and Data

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7.4 Conducted Band Edges Measurement

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

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

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Humidity: 52.9 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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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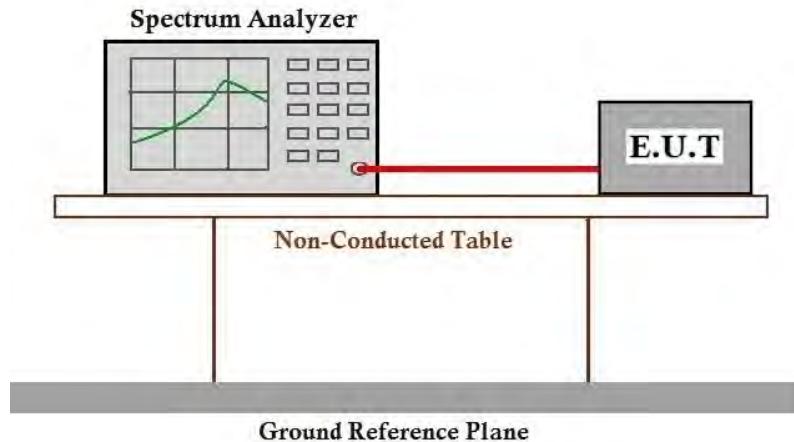
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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7.5 Conducted Spurious Emissions

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

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

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Humidity: 53.3 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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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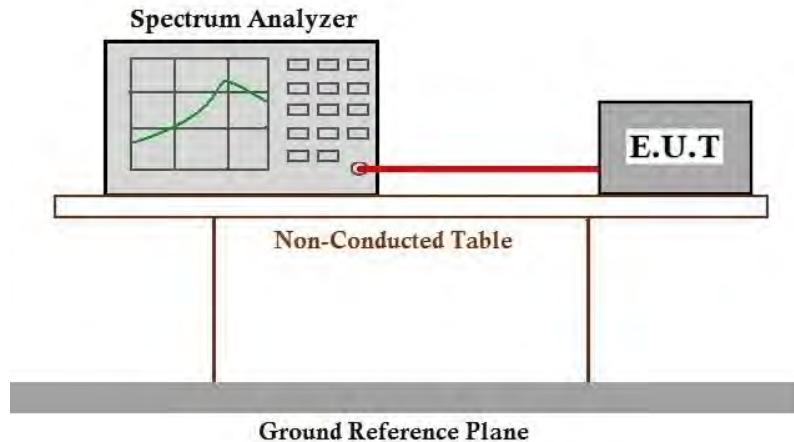
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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7.6 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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 26.6 °C Humidity: 53.0 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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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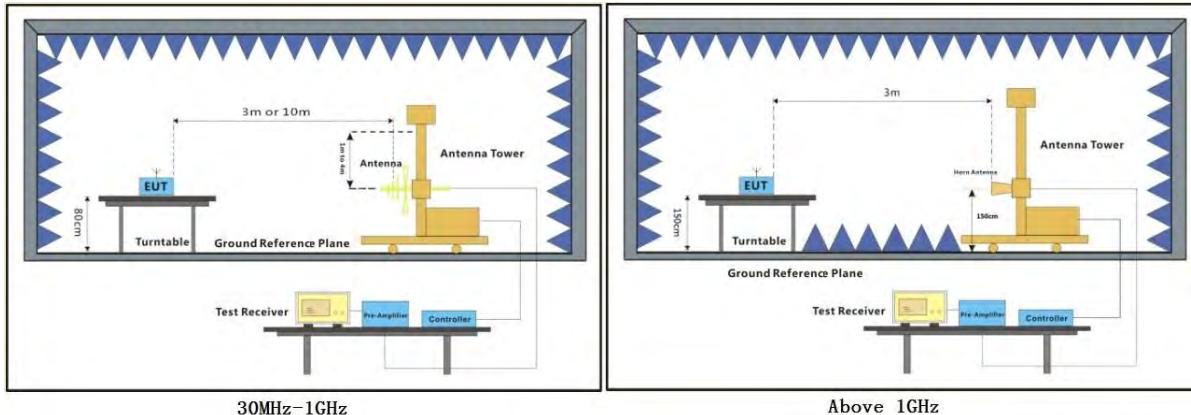
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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

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

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

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



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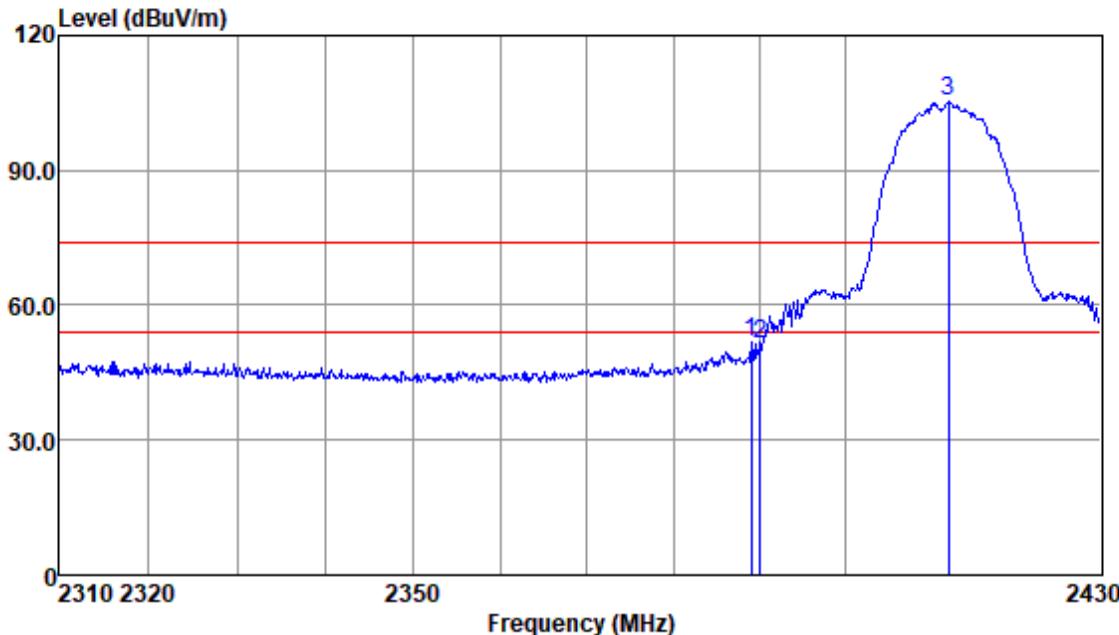
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



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	
2389.00	56.32	26.03	4.60	35.18	51.77	74.00	-22.23	Peak
2390.00	55.91	26.03	4.60	35.18	51.36	74.00	-22.64	Peak
2411.98	109.74	26.07	4.65	35.20	105.26	74.00	31.26	Peak

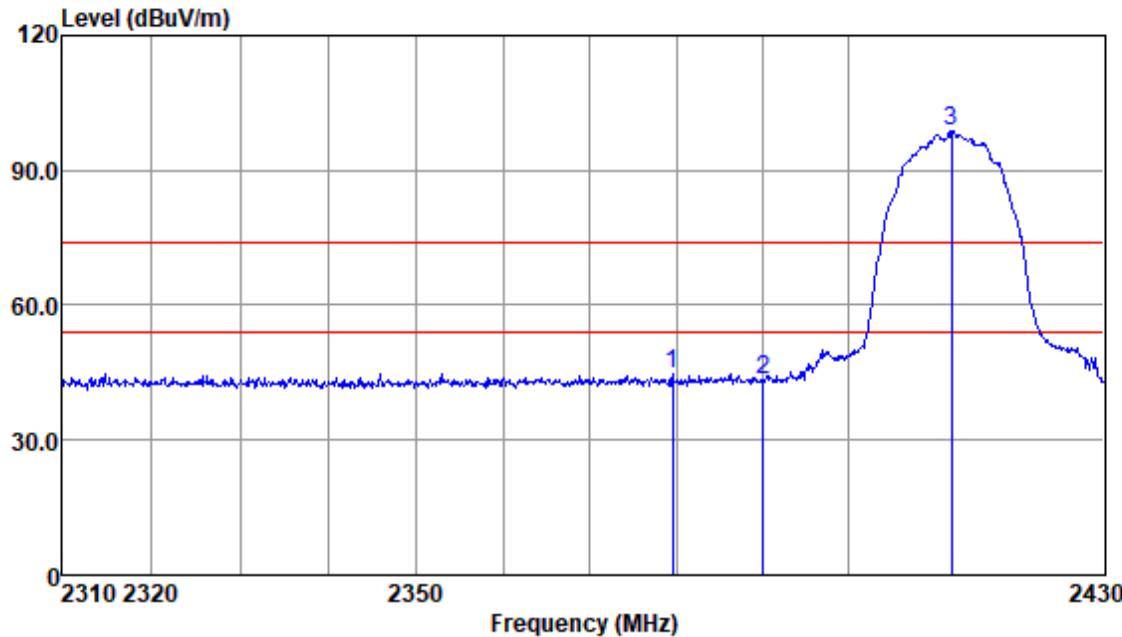
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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	
2379.58	49.41	26.02	4.59	35.17	44.85	74.00	-29.15	Peak
2390.00	48.14	26.03	4.60	35.18	43.59	74.00	-30.41	Peak
2411.98	103.38	26.07	4.65	35.20	98.90	74.00	24.90	Peak

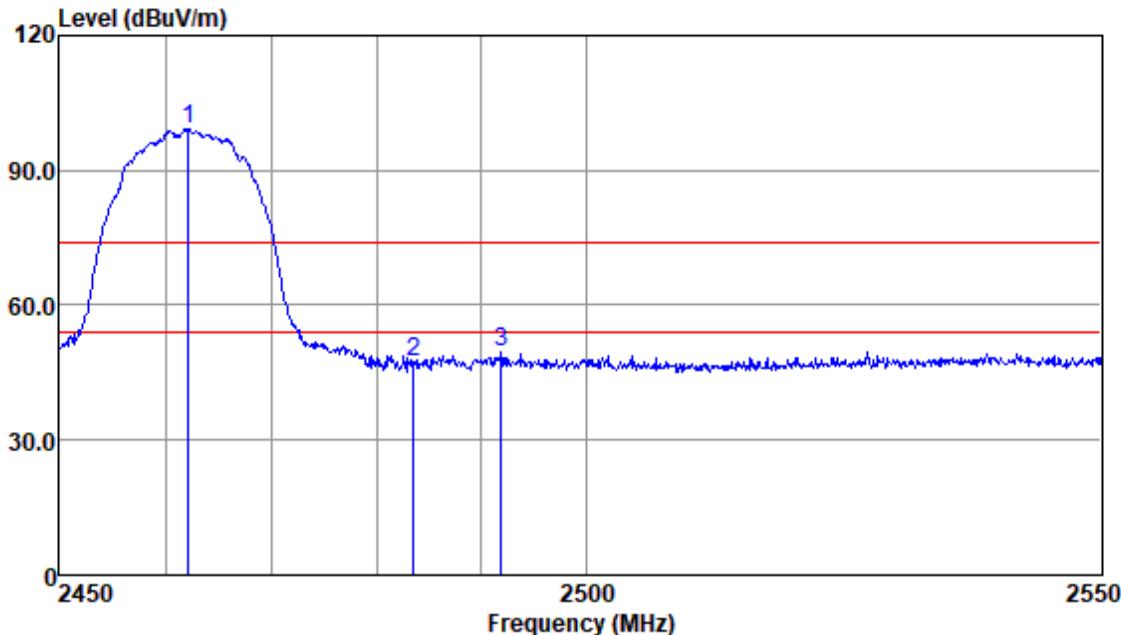
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 03; 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	
2462.18	103.73	26.15	4.74	35.24	99.38	74.00	25.38	Peak
2483.50	51.85	26.18	4.78	35.26	47.55	74.00	-26.45	Peak
2491.91	53.73	26.19	4.79	35.26	49.45	74.00	-24.55	Peak

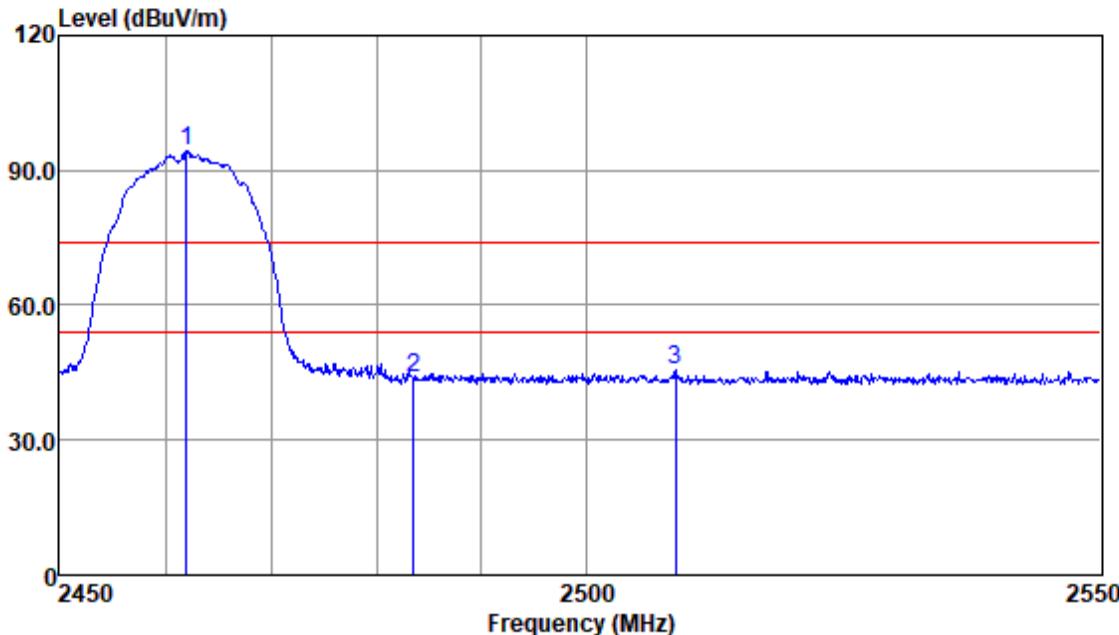
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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	
2461.99	98.59	26.14	4.74	35.24	94.23	74.00	20.23	Peak
2483.50	48.05	26.18	4.78	35.26	43.75	74.00	-30.25	Peak
2508.62	49.81	26.22	4.81	35.28	45.56	74.00	-28.44	Peak

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

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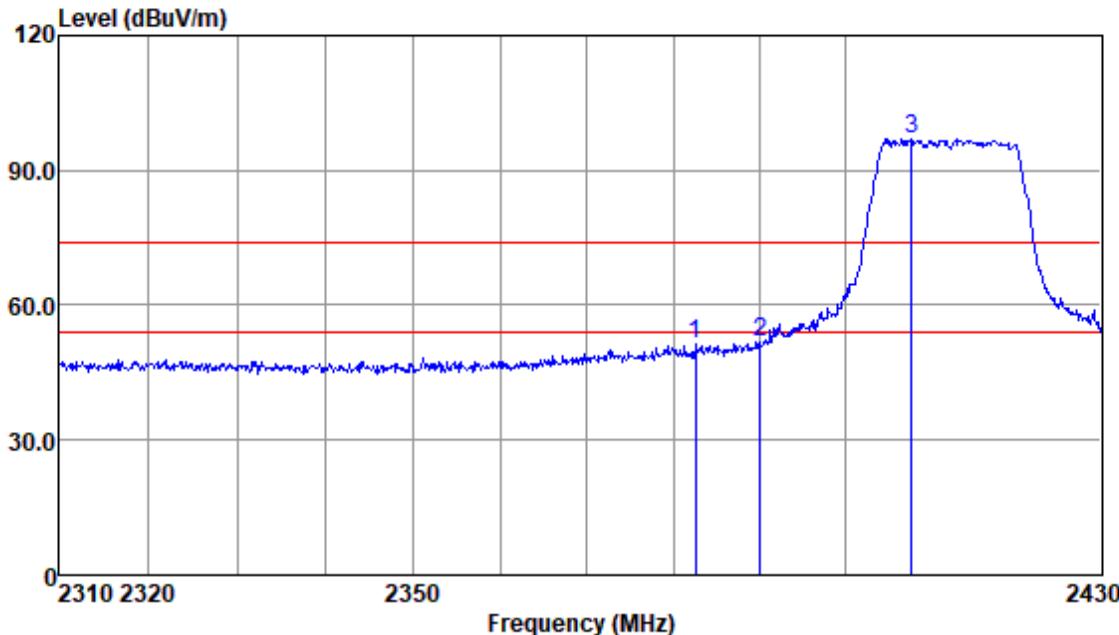
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



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	
2382.48	55.93	26.02	4.59	35.17	51.37	74.00	-22.63	Peak
2390.00	56.33	26.03	4.60	35.18	51.78	74.00	-22.22	Peak
2407.71	101.57	26.06	4.64	35.20	97.07	74.00	23.07	Peak

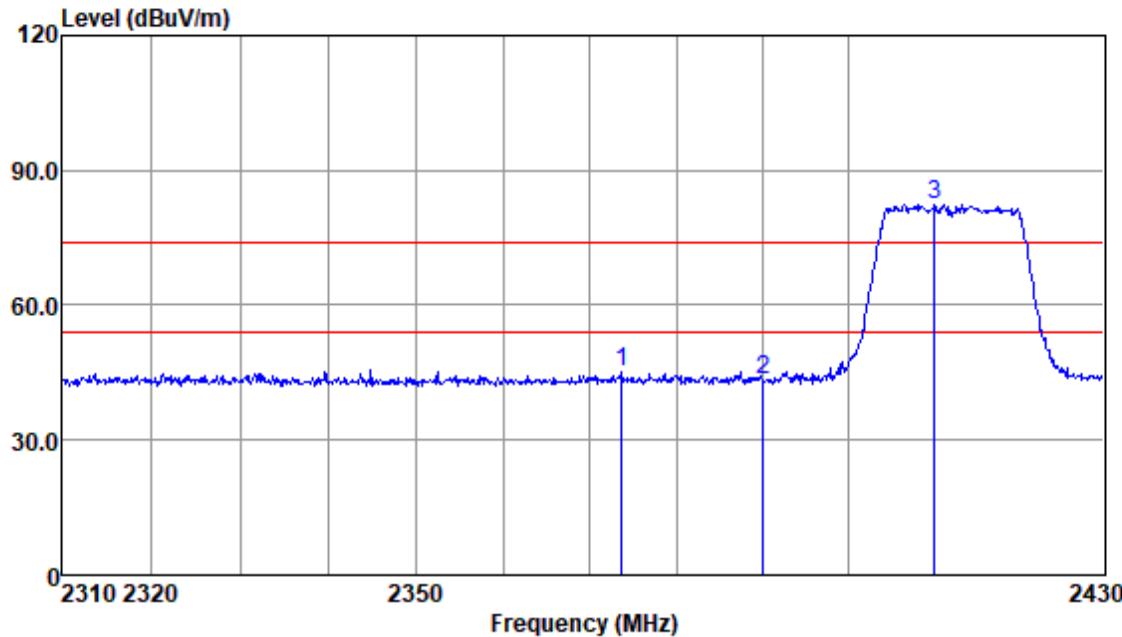
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 03; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

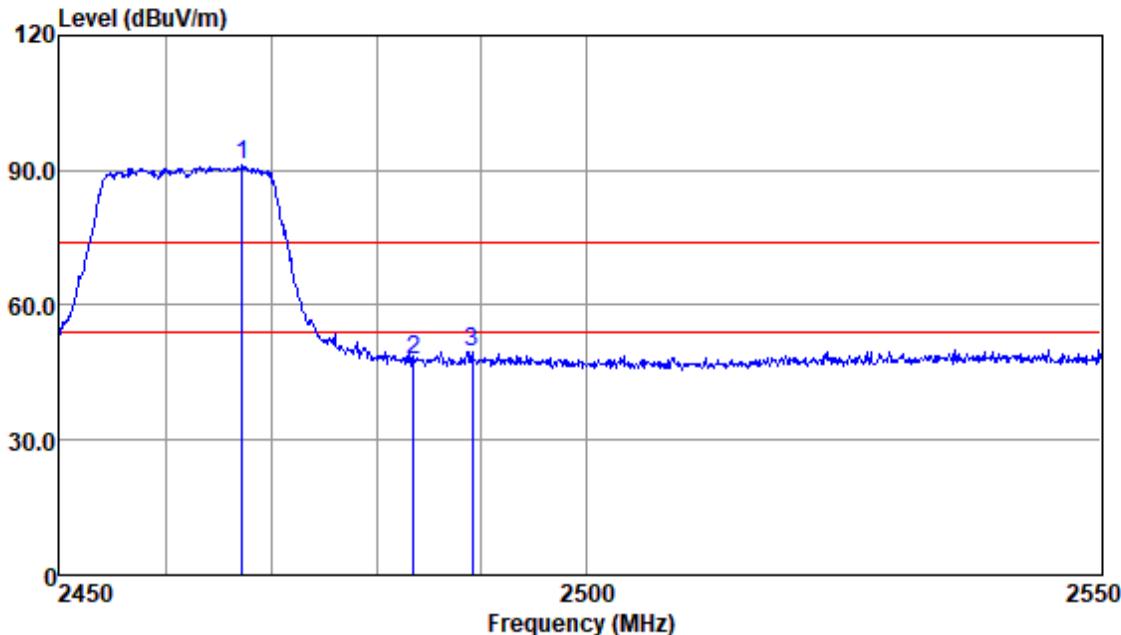
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2373.68	49.78	26.01	4.57	35.17	45.19	74.00	-28.81	Peak
2390.00	47.86	26.03	4.60	35.18	43.31	74.00	-30.69	Peak
2410.02	86.82	26.07	4.64	35.20	82.33	74.00	8.33	Peak

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

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Test Mode: 03; 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	
2467.21	95.41	26.15	4.74	35.24	91.06	74.00	17.06	Peak
2483.50	52.30	26.18	4.78	35.26	48.00	74.00	-26.00	Peak
2489.12	54.05	26.19	4.79	35.26	49.77	74.00	-24.23	Peak

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

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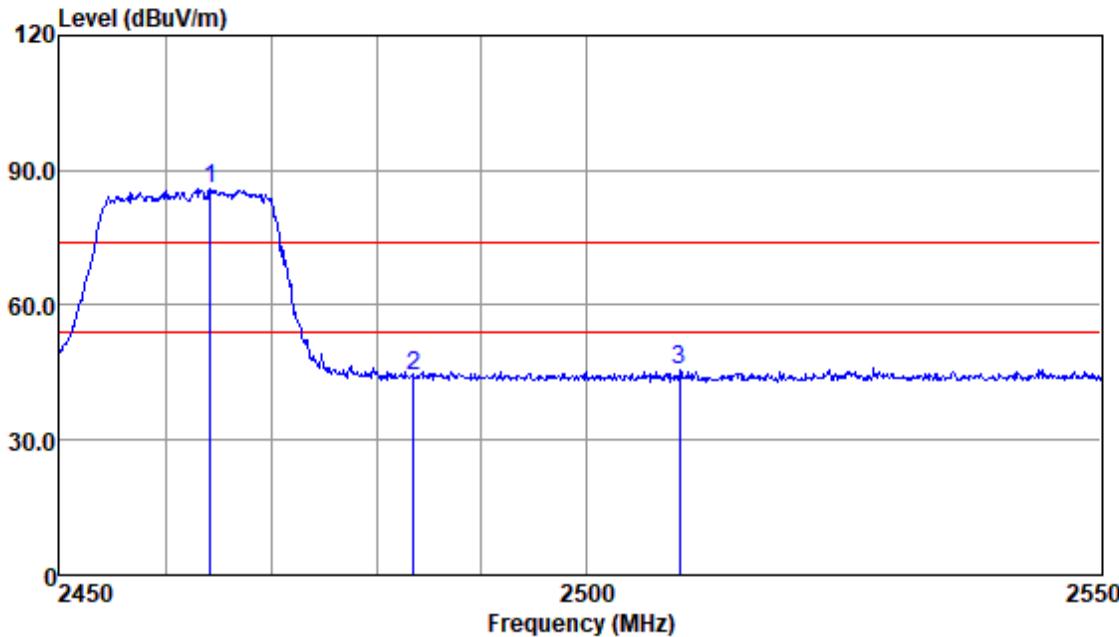
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Test Mode: 03; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



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	
2464.25	90.34	26.15	4.74	35.24	85.99	74.00	11.99	Peak
2483.50	48.73	26.18	4.78	35.26	44.43	74.00	-29.57	Peak
2509.02	49.86	26.22	4.81	35.28	45.61	74.00	-28.39	Peak

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

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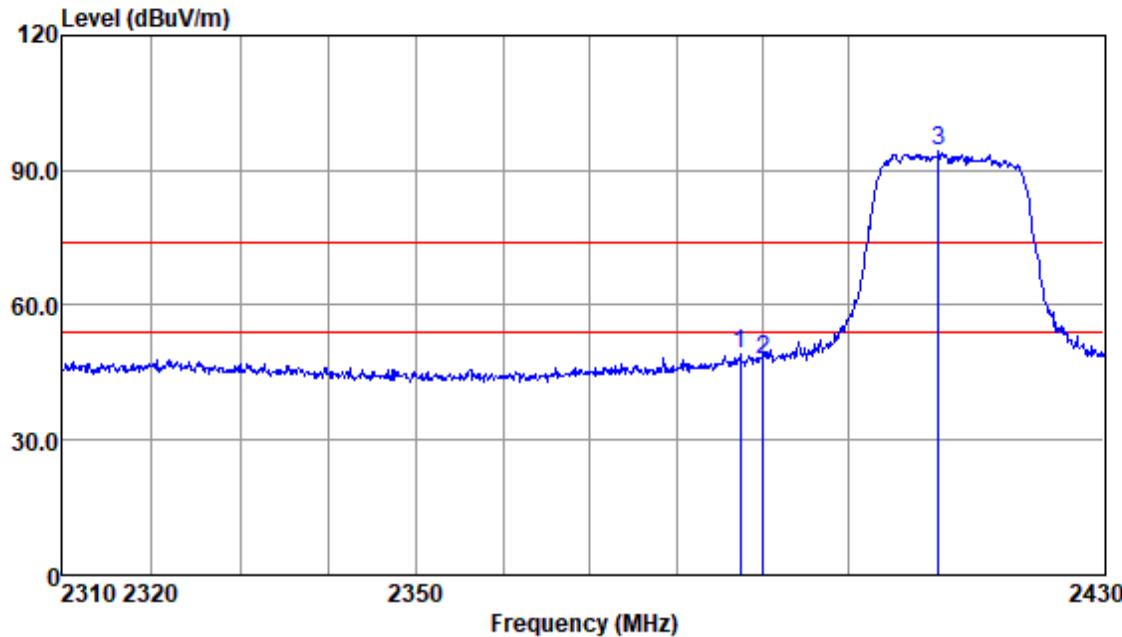
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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	
2387.43	53.67	26.03	4.60	35.18	49.12	74.00	-24.88	Peak
2390.00	52.19	26.03	4.60	35.18	47.64	74.00	-26.36	Peak
2410.51	98.72	26.07	4.64	35.20	94.23	74.00	20.23	Peak

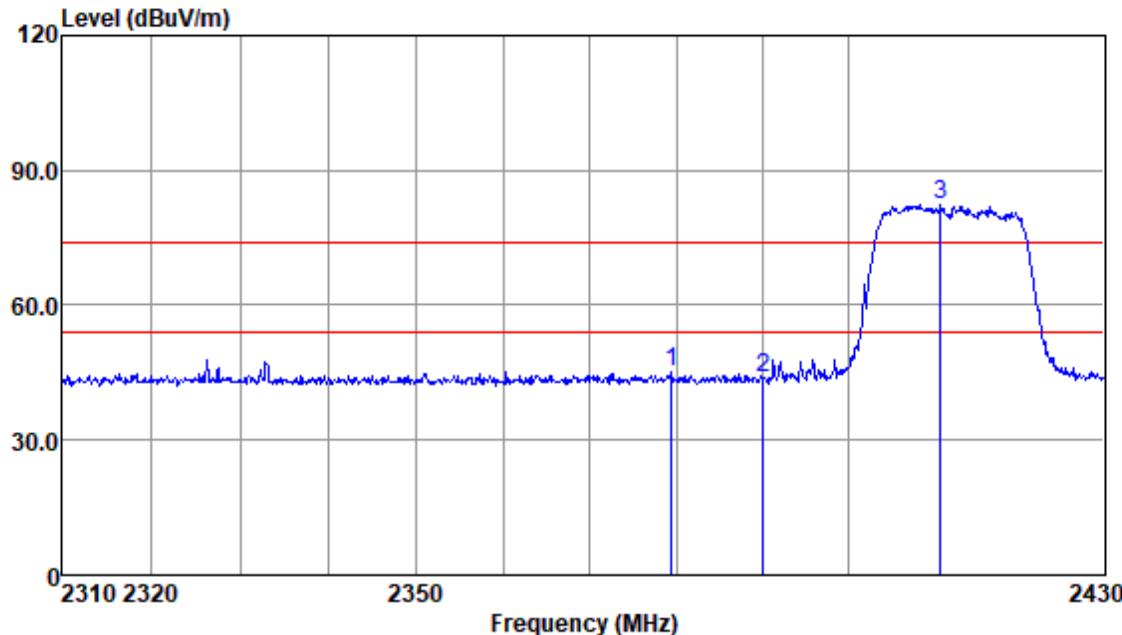
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 03; 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	
2379.46	49.58	26.02	4.59	35.17	45.02	74.00	-28.98	Peak
2390.00	48.59	26.03	4.60	35.18	44.04	74.00	-29.96	Peak
2410.76	87.06	26.07	4.64	35.20	82.57	74.00	8.57	Peak

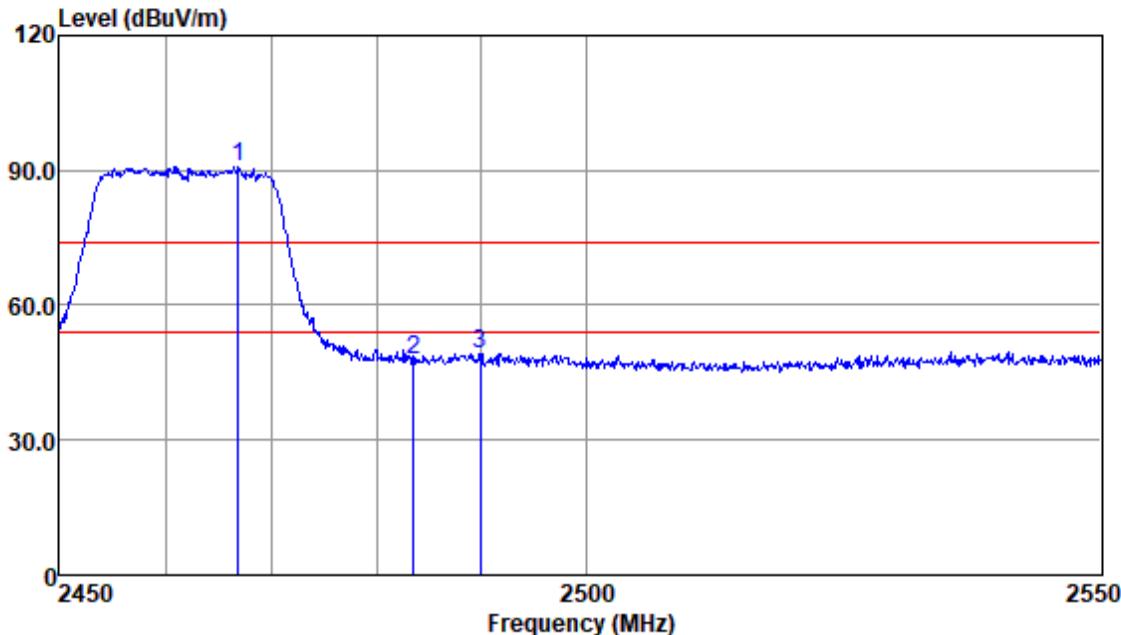
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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	
2466.92	95.17	26.15	4.74	35.24	90.82	74.00	16.82	Peak
2483.50	52.14	26.18	4.78	35.26	47.84	74.00	-26.16	Peak
2489.92	53.63	26.19	4.79	35.26	49.35	74.00	-24.65	Peak

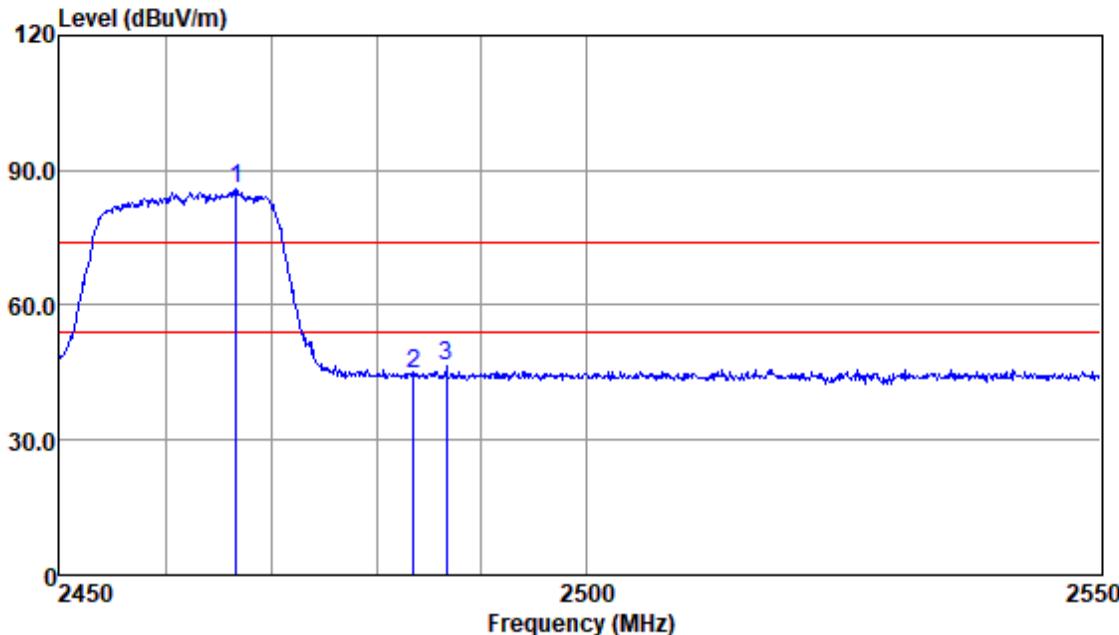
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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	
2466.72	90.07	26.15	4.74	35.24	85.72	74.00	11.72	Peak
2483.50	48.92	26.18	4.78	35.26	44.62	74.00	-29.38	Peak
2486.63	50.68	26.19	4.78	35.26	46.39	74.00	-27.61	Peak

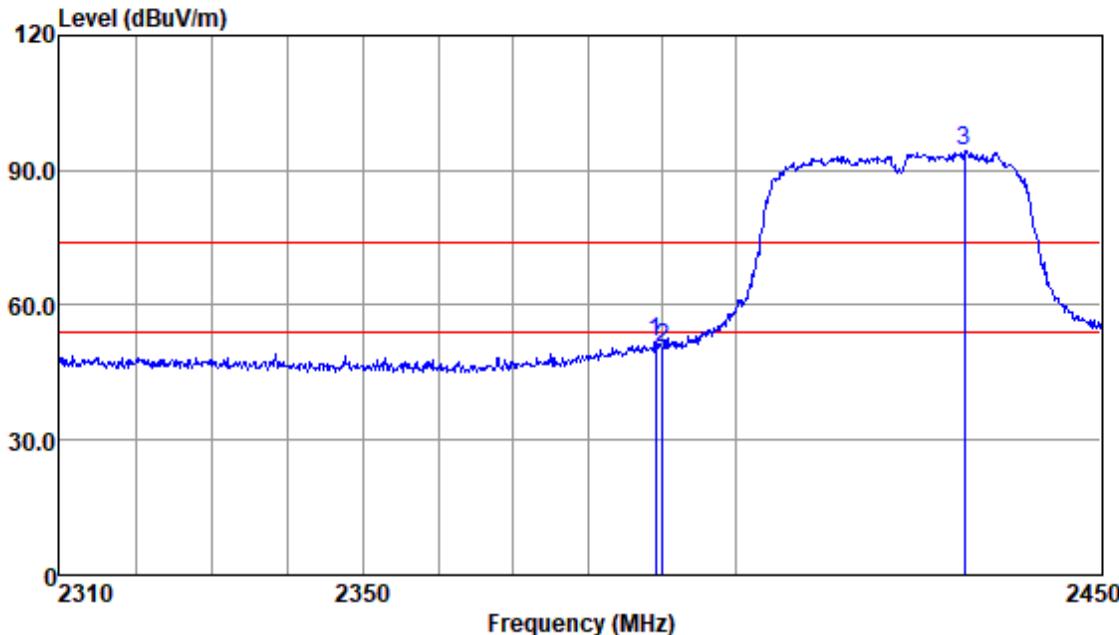
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 03; 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	
2389.07	56.48	26.03	4.60	35.18	51.93	74.00	-22.07	Peak
2390.00	54.99	26.03	4.60	35.18	50.44	74.00	-23.56	Peak
2431.19	98.85	26.10	4.67	35.21	94.41	74.00	20.41	Peak

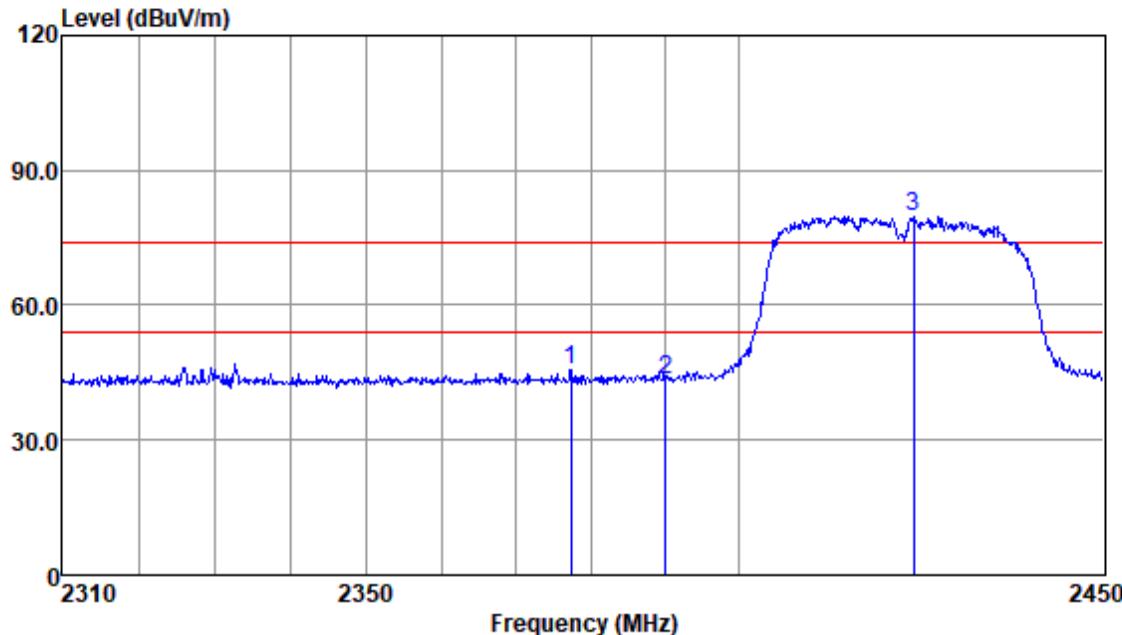
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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	
2377.29	50.30	26.01	4.59	35.17	45.73	74.00	-28.27	Peak
2390.00	47.90	26.03	4.60	35.18	43.35	74.00	-30.65	Peak
2423.76	84.28	26.09	4.66	35.21	79.82	74.00	5.82	Peak

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

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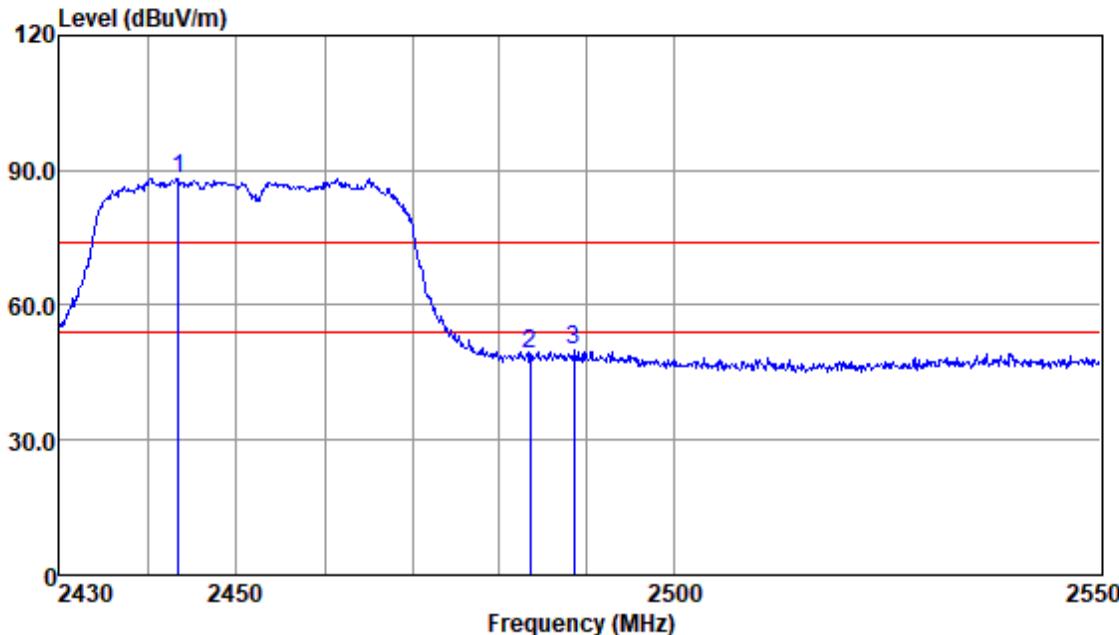
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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	
2443.39	92.56	26.12	4.70	35.22	88.16	74.00	14.16	Peak
2483.50	53.32	26.18	4.78	35.26	49.02	74.00	-24.98	Peak
2488.56	54.19	26.19	4.78	35.26	49.90	74.00	-24.10	Peak

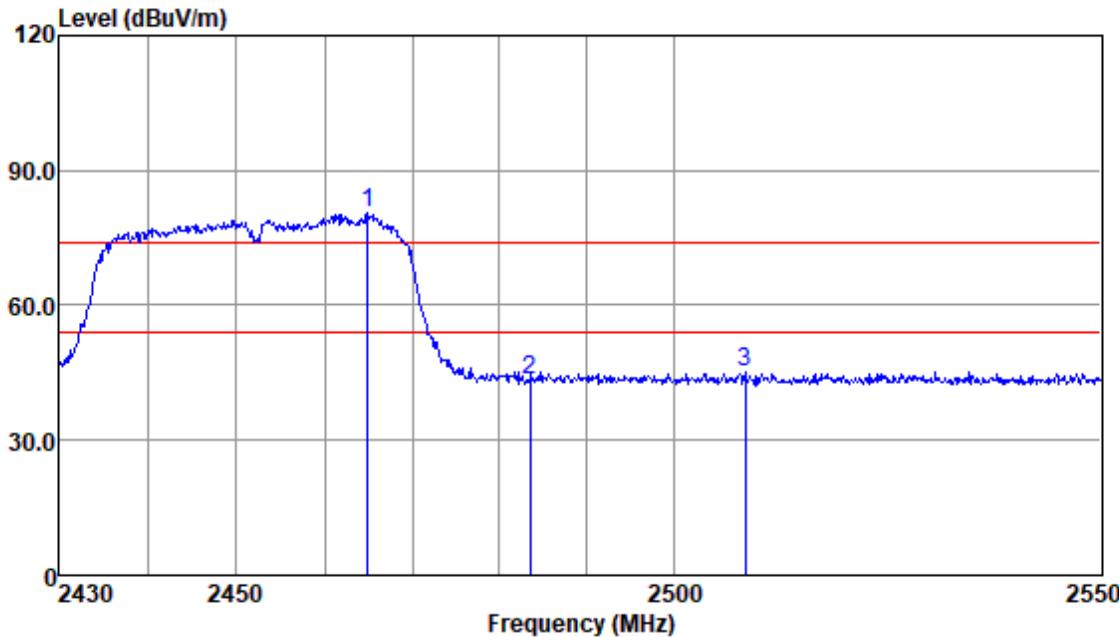
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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	
2464.92	84.90	26.15	4.74	35.24	80.55	74.00	6.55	Peak
2483.50	47.76	26.18	4.78	35.26	43.46	74.00	-30.54	Peak
2508.31	49.36	26.22	4.81	35.28	45.11	74.00	-28.89	Peak

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



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7.7 Radiated Spurious Emissions Below 1GHz

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

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

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 26.6 °C

Humidity: 52.9 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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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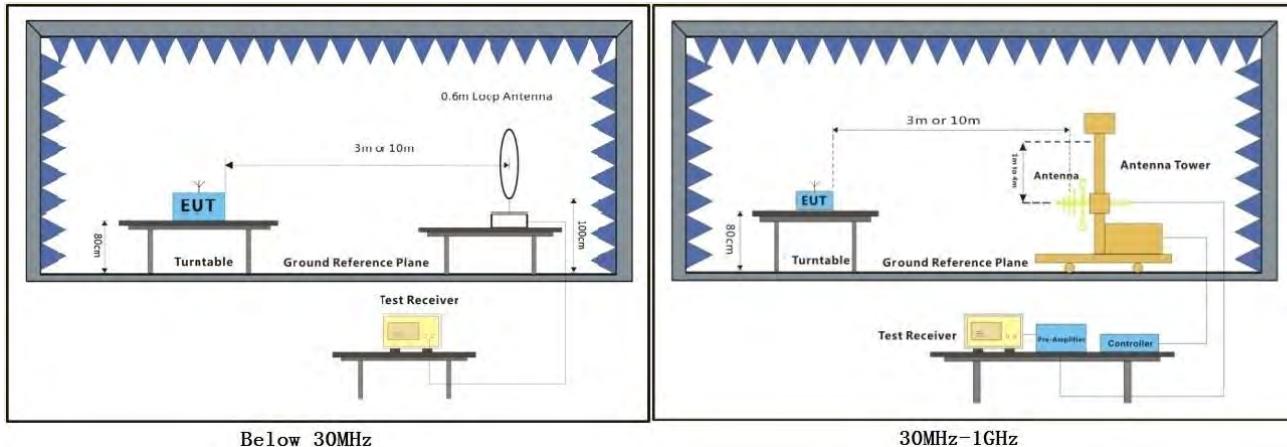
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7.7.3 Test Setup Diagram



7.7.4 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.
- 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 quasi-peak 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:

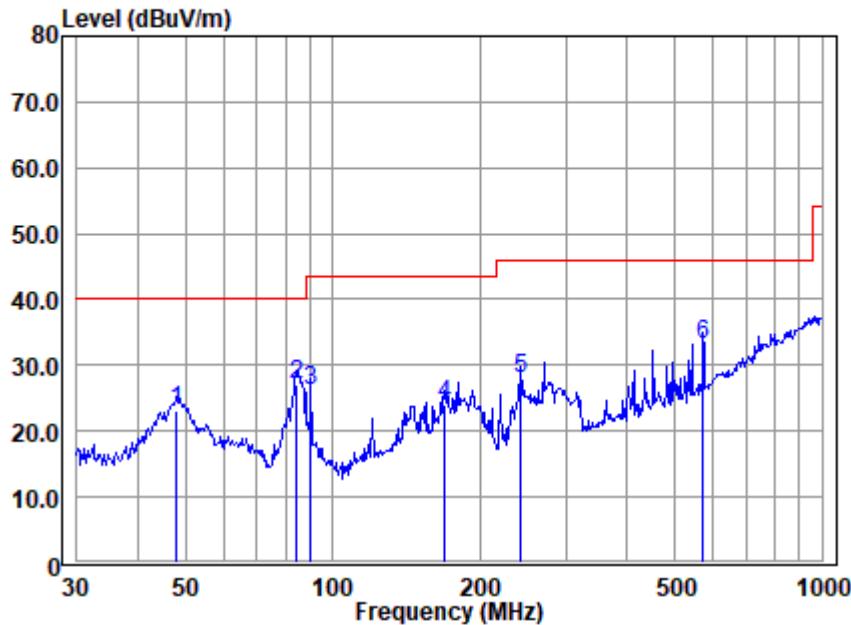
- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from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



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Test Mode: 03; Polarity: Horizontal



Antenna Polarity :Horizontal
EUT/Project :1757PV
Test mode :03

Freq	Read	Antenna	Cable	Preamp	Emission	Limit	Over	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	47.88	39.50	14.01	1.64	31.96	23.19	40.00	-16.81 QP
2	84.17	48.66	8.06	2.12	31.70	27.14	40.00	-12.86 QP
3	90.38	47.81	7.85	2.18	31.76	26.08	43.50	-17.42 QP
4	168.86	40.33	12.79	3.22	32.26	24.08	43.50	-19.42 QP
5	242.23	44.74	11.58	3.84	32.32	27.84	46.00	-18.16 QP
6	571.77	41.31	19.07	6.02	33.28	33.12	46.00	-12.88 QP

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

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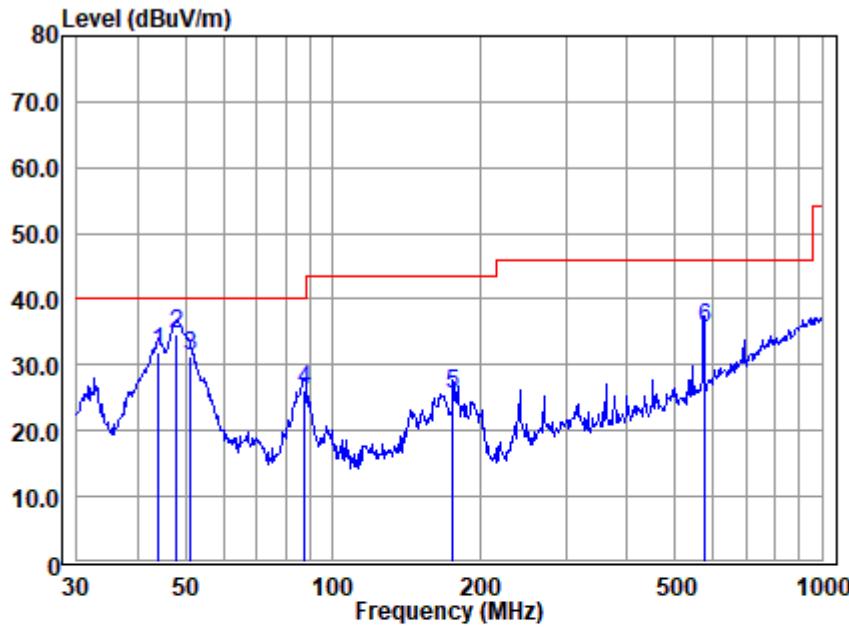
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Test Mode: 03; Polarity: Vertical



Antenna Polarity :Vertical
EUT/Project :1757PV
Test mode :03

Freq	Read	Antenna	Cable	Preamp	Emission	Limit	Over	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	44.14	48.48	13.71	1.66	31.89	31.96	40.00	-8.04 QP
2	47.88	51.10	14.01	1.64	31.96	34.79	40.00	-5.21 QP
3	51.15	47.67	13.80	1.71	32.00	31.18	40.00	-8.82 QP
4	87.22	47.87	7.78	2.16	31.70	26.11	40.00	-13.89 QP
5	175.87	42.49	12.08	3.22	32.18	25.61	43.50	-17.89 QP
6	574.68	43.63	19.13	6.02	33.30	35.48	46.00	-10.52 QP

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

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7.8 Radiated Spurious Emissions Above 1GHz

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

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

Limit:

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

7.8.1 E.U.T. Operation

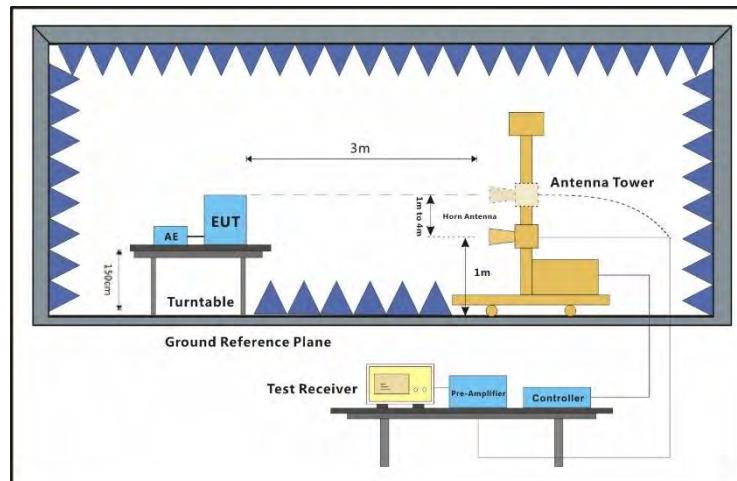
Operating Environment:

Temperature: 26.6 °C Humidity: 53.0 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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.

7.8.3 Test Setup Diagram



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7.8.4 Measurement Procedure and Data

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

Remark:

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



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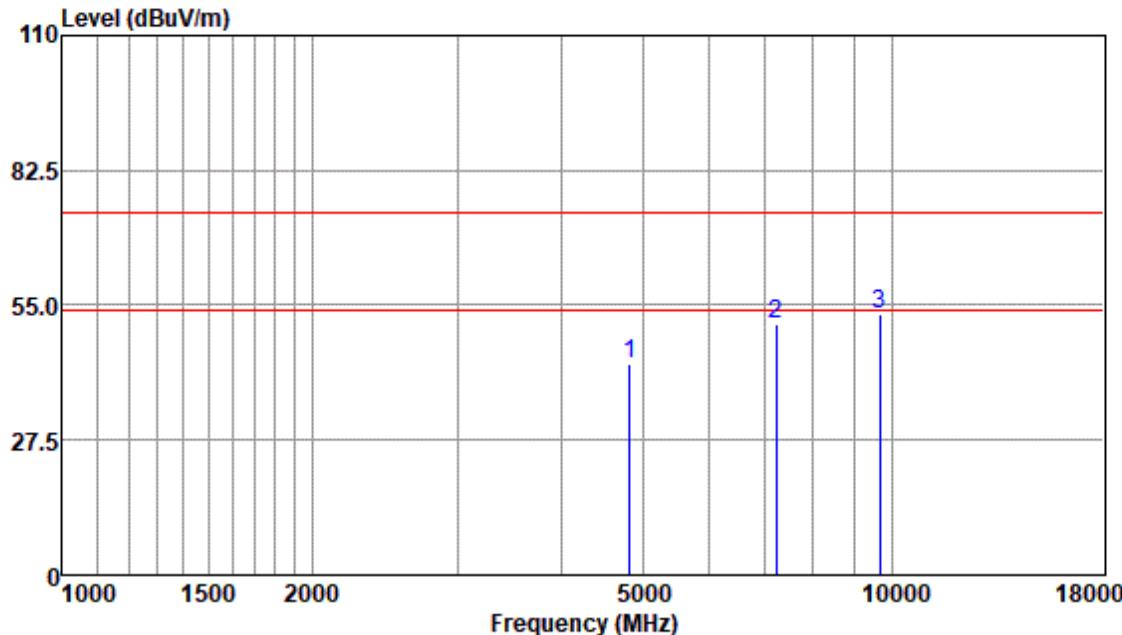
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



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	
4824.00	41.37	31.25	12.62	42.40	42.84	74.00	-31.16	Peak
7236.00	42.27	36.45	15.28	42.75	51.25	74.00	-22.75	Peak
9648.00	40.92	38.24	16.48	42.64	53.00	74.00	-21.00	Peak

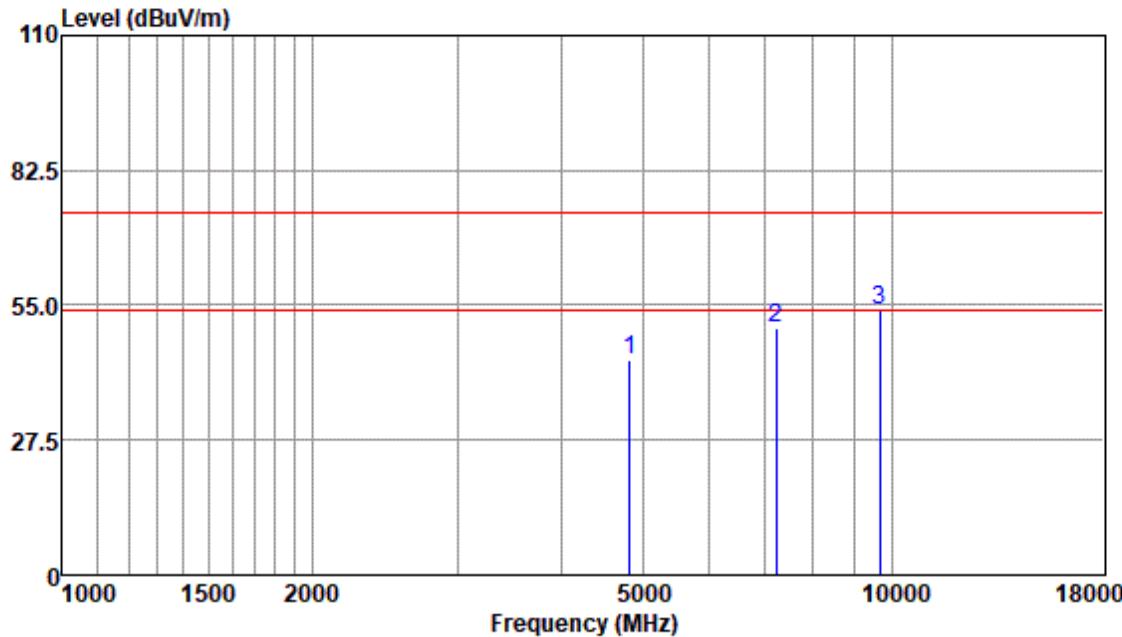
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 03; 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	42.17	31.25	12.62	42.40	43.64	74.00	-30.36	Peak
7236.00	41.18	36.45	15.28	42.75	50.16	74.00	-23.84	Peak
9648.00	41.81	38.24	16.48	42.64	53.89	74.00	-20.11	Peak

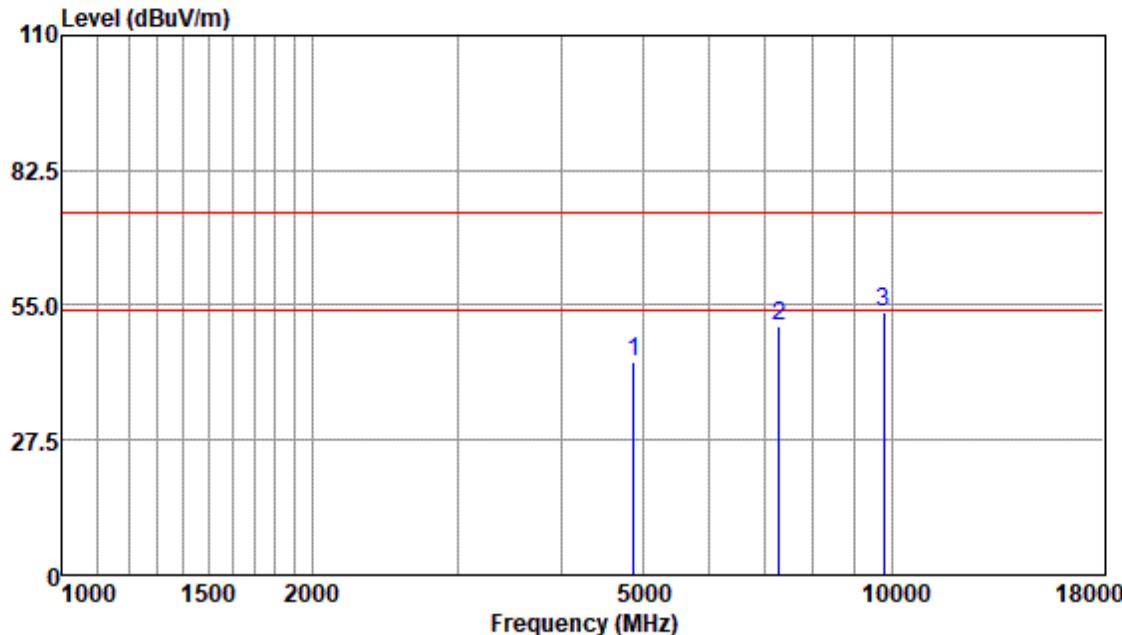
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 03; 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	41.84	31.36	12.67	42.40	43.47	74.00	-30.53	Peak
7311.00	41.62	36.61	15.30	42.76	50.77	74.00	-23.23	Peak
9748.00	41.10	38.35	16.60	42.60	53.45	74.00	-20.55	Peak

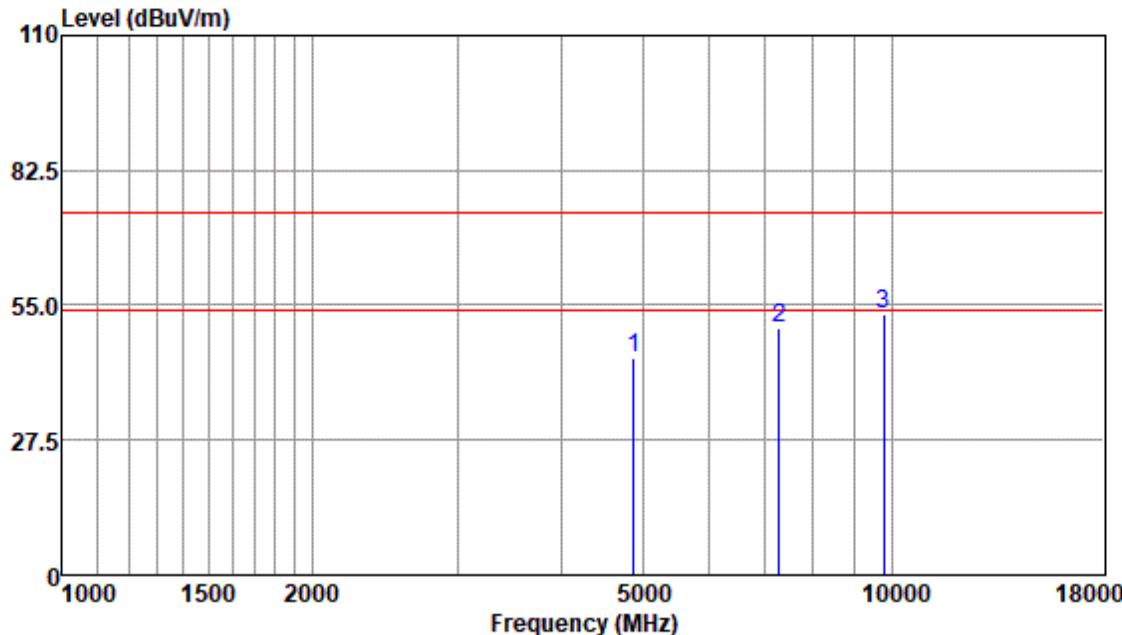
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 03; 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	42.72	31.36	12.67	42.40	44.35	74.00	-29.65	Peak
7311.00	41.03	36.61	15.30	42.76	50.18	74.00	-23.82	Peak
9748.00	40.74	38.35	16.60	42.60	53.09	74.00	-20.91	Peak

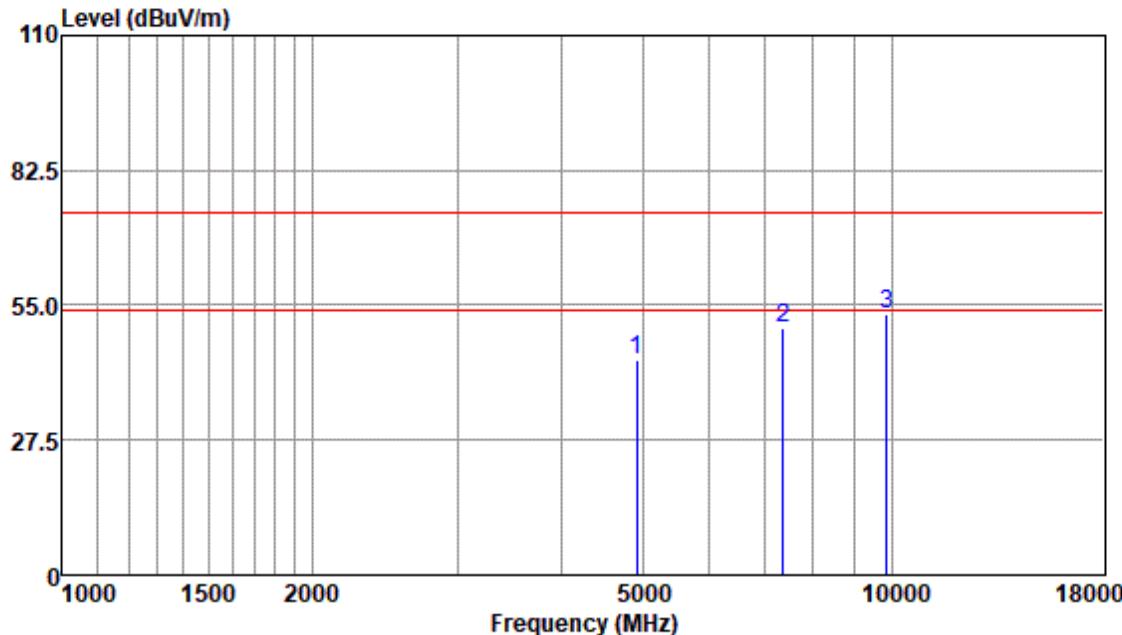
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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	
4924.00	42.10	31.46	12.72	42.40	43.88	74.00	-30.12	Peak
7386.00	41.00	36.83	15.33	42.78	50.38	74.00	-23.62	Peak
9848.00	40.81	38.43	16.60	42.57	53.27	74.00	-20.73	Peak

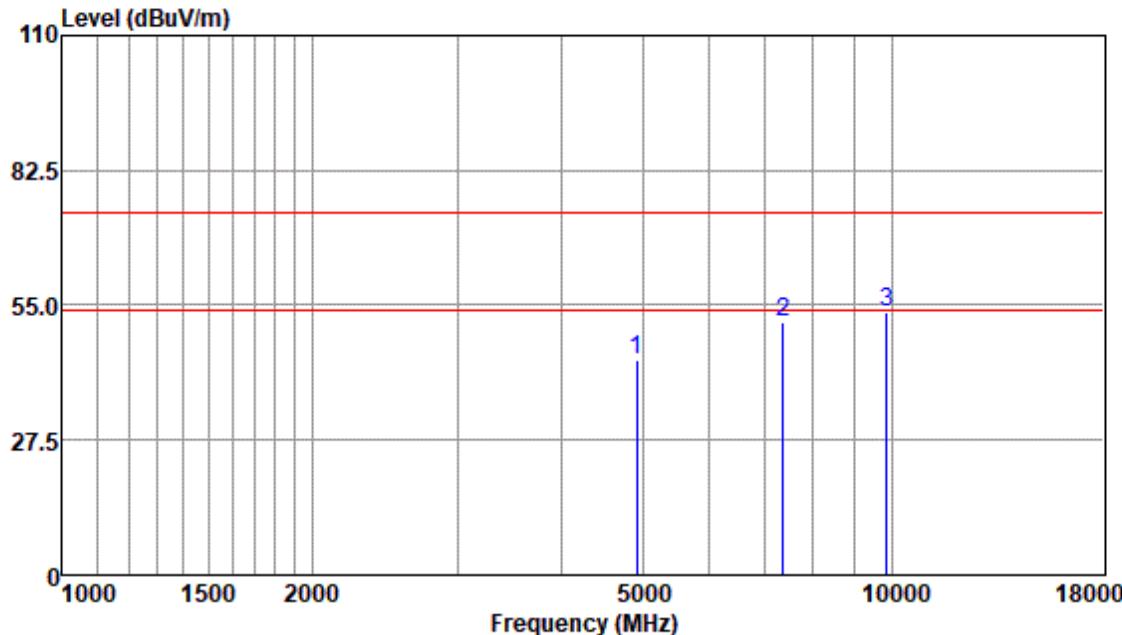
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 03; 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	42.25	31.46	12.72	42.40	44.03	74.00	-29.97	Peak
7386.00	41.99	36.83	15.33	42.78	51.37	74.00	-22.63	Peak
9848.00	41.16	38.43	16.60	42.57	53.62	74.00	-20.38	Peak

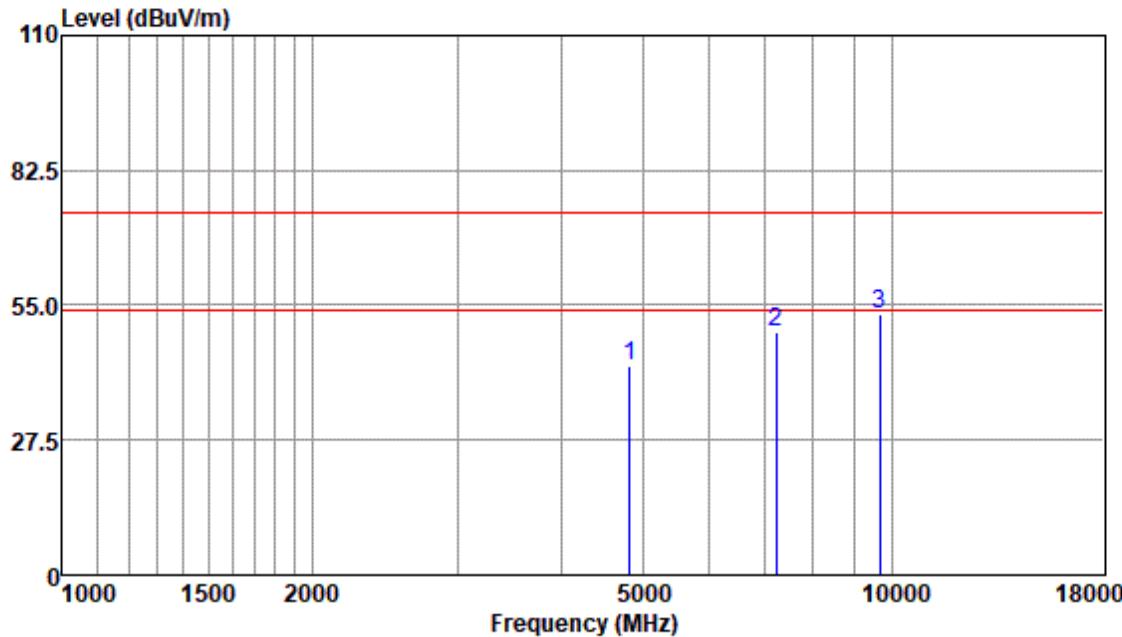
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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	41.33	31.25	12.62	42.40	42.80	74.00	-31.20	Peak
7236.00	40.52	36.45	15.28	42.75	49.50	74.00	-24.50	Peak
9648.00	41.07	38.24	16.48	42.64	53.15	74.00	-20.85	Peak

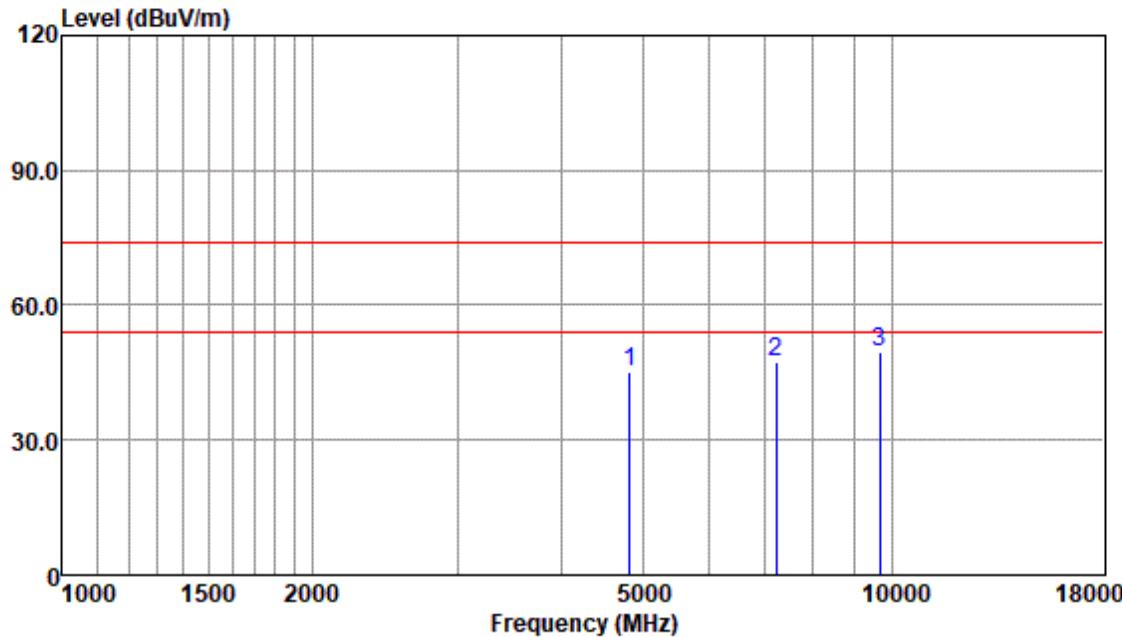
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 03; 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	43.81	33.78	4.46	36.79	45.26	74.00	-28.74	Peak
7236.00	40.65	36.35	5.76	35.50	47.26	74.00	-26.74	Peak
9648.00	38.86	37.69	6.53	33.56	49.52	74.00	-24.48	Peak

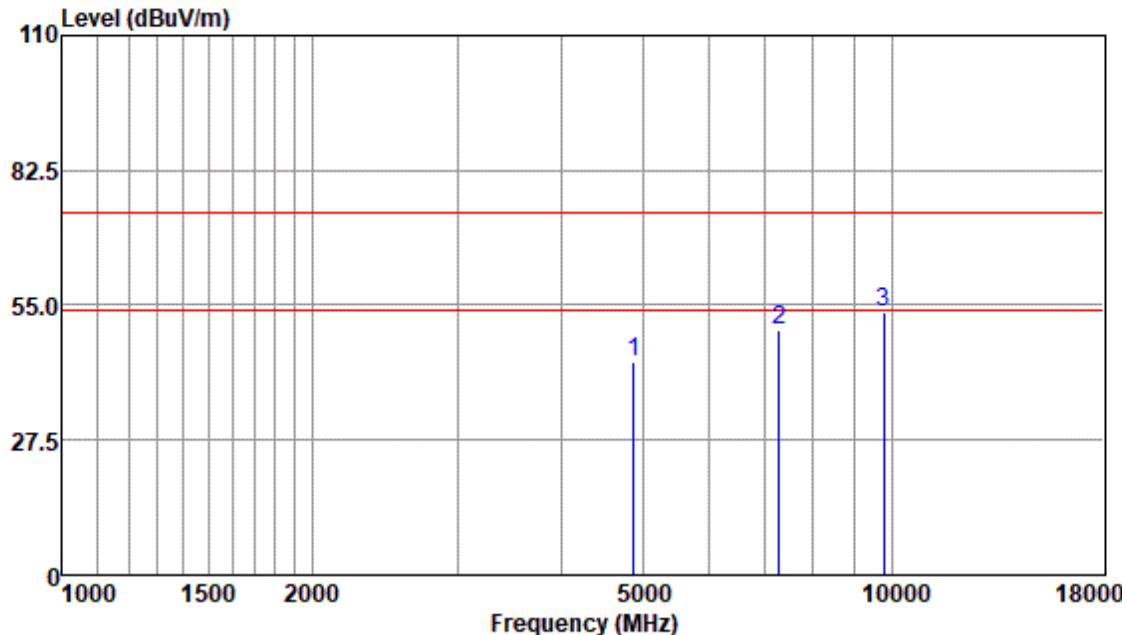
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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
4874.00	41.95	31.36	12.67	42.40	43.58	74.00	-30.42	Peak
7311.00	40.72	36.61	15.30	42.76	49.87	74.00	-24.13	Peak
9748.00	41.42	38.35	16.60	42.60	53.77	74.00	-20.23	Peak

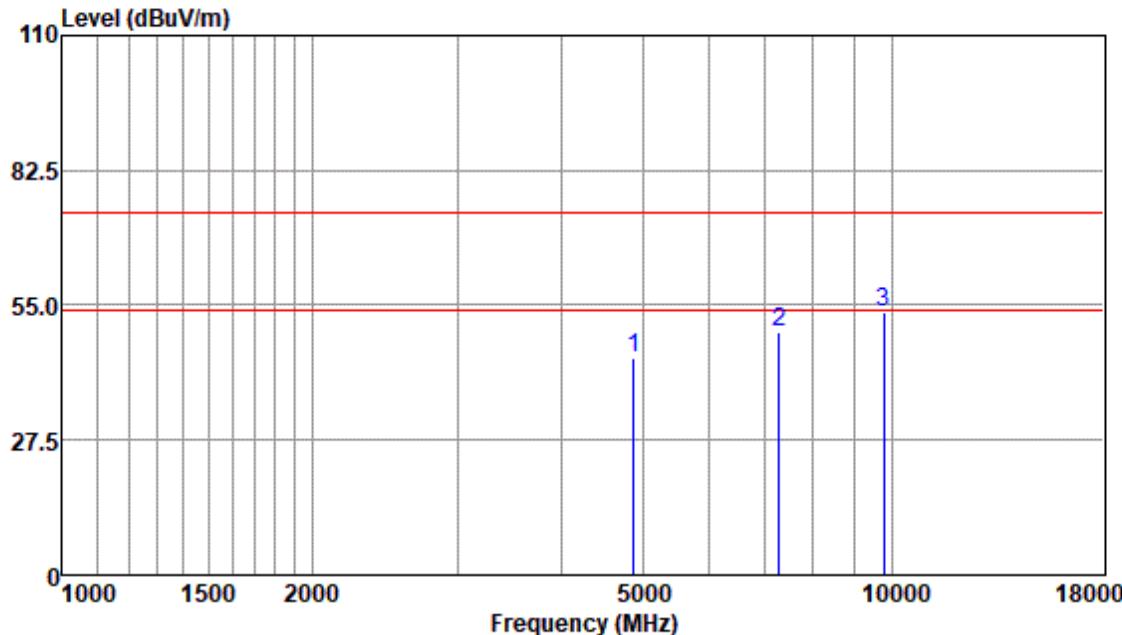
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	42.79	31.36	12.67	42.40	44.42	74.00	-29.58	Peak
7311.00	40.43	36.61	15.30	42.76	49.58	74.00	-24.42	Peak
9748.00	41.30	38.35	16.60	42.60	53.65	74.00	-20.35	Peak

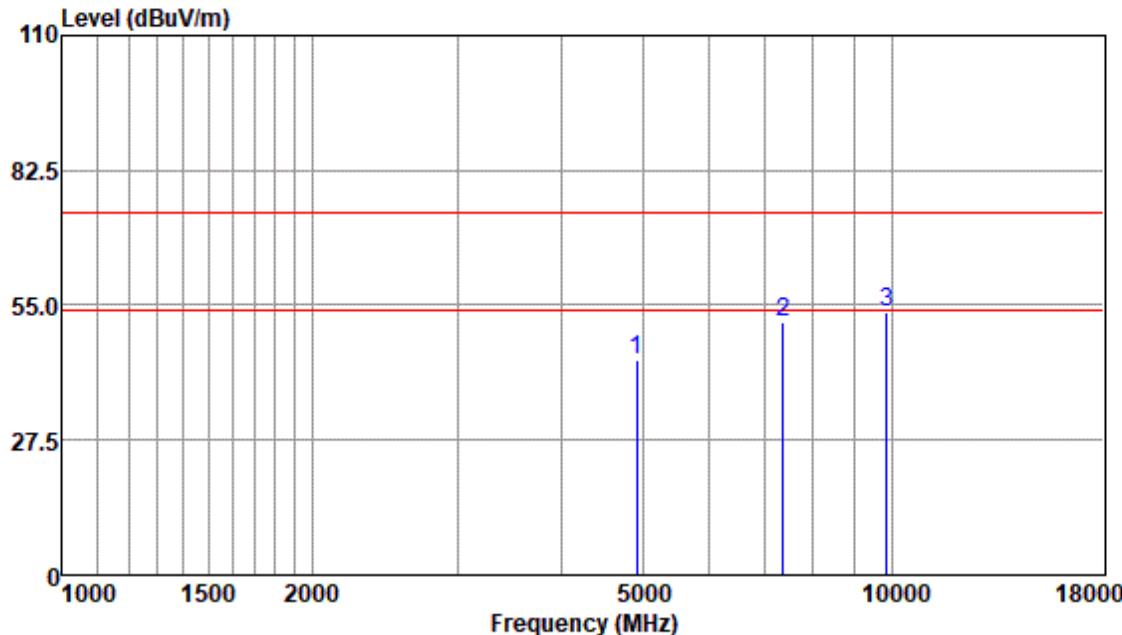
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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	
4924.00	42.03	31.46	12.72	42.40	43.81	74.00	-30.19	Peak
7386.00	42.01	36.83	15.33	42.78	51.39	74.00	-22.61	Peak
9848.00	41.13	38.43	16.60	42.57	53.59	74.00	-20.41	Peak

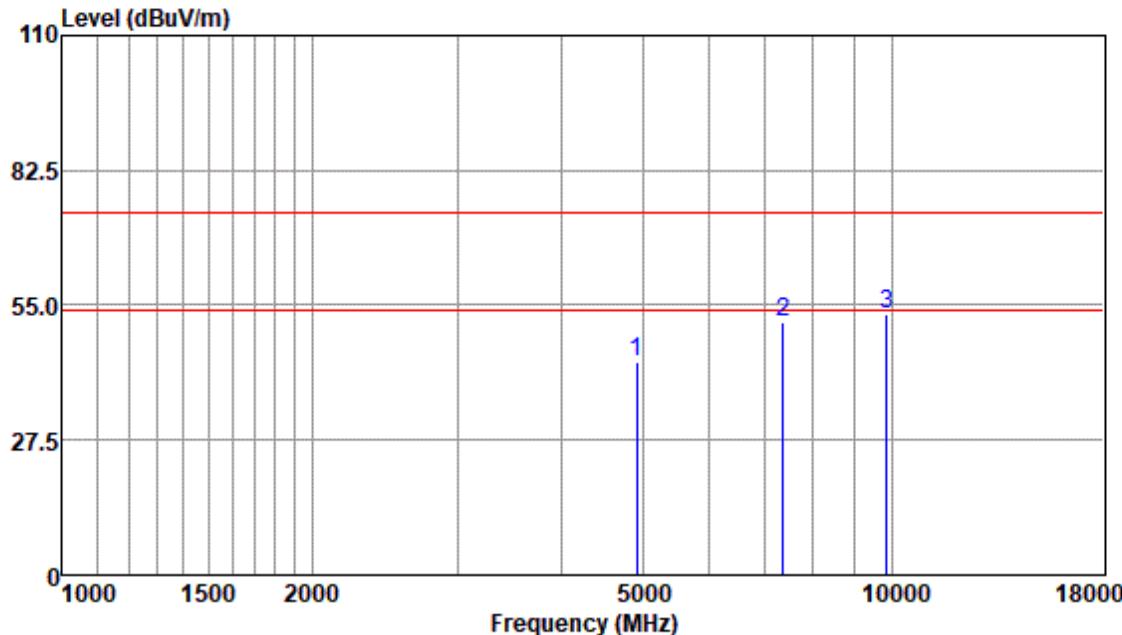
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 03; 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	41.76	31.46	12.72	42.40	43.54	74.00	-30.46	Peak
7386.00	42.04	36.83	15.33	42.78	51.42	74.00	-22.58	Peak
9848.00	40.58	38.43	16.60	42.57	53.04	74.00	-20.96	Peak

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

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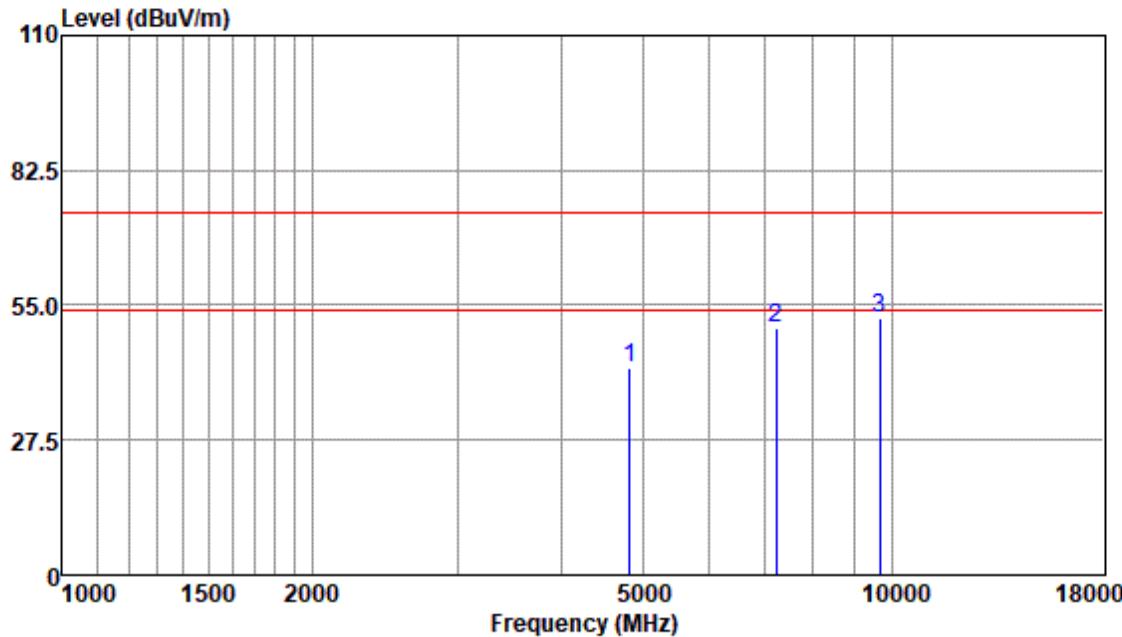
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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	
4824.00	40.93	31.25	12.62	42.40	42.40	74.00	-31.60	Peak
7236.00	41.24	36.45	15.28	42.75	50.22	74.00	-23.78	Peak
9648.00	40.36	38.24	16.48	42.64	52.44	74.00	-21.56	Peak

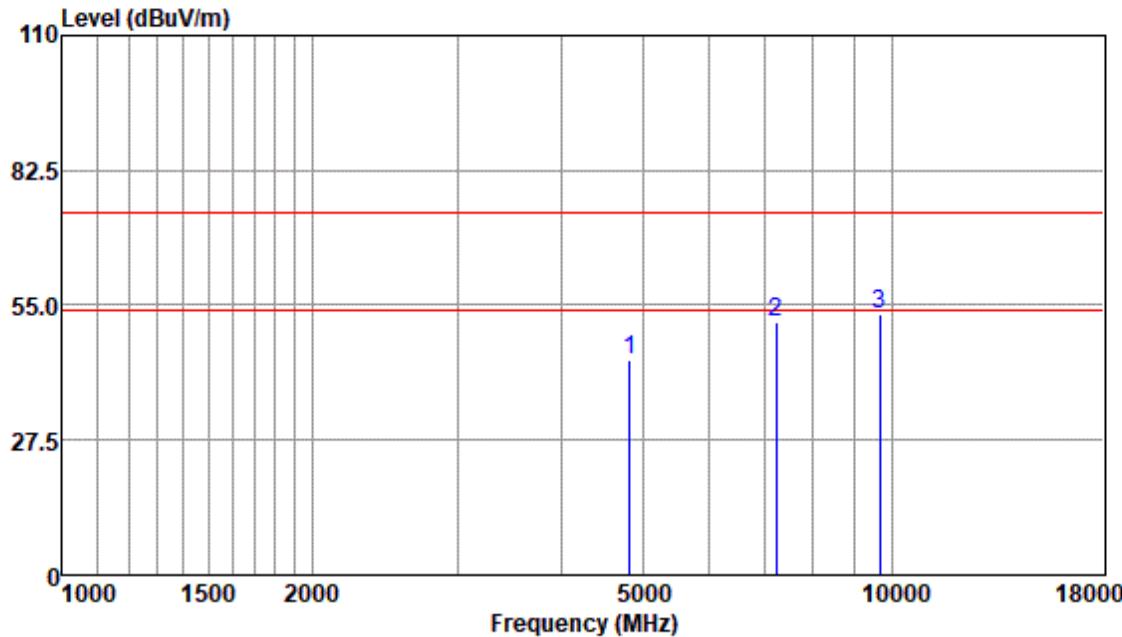
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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	42.39	31.25	12.62	42.40	43.86	74.00	-30.14	Peak
7236.00	42.58	36.45	15.28	42.75	51.56	74.00	-22.44	Peak
9648.00	41.24	38.24	16.48	42.64	53.32	74.00	-20.68	Peak

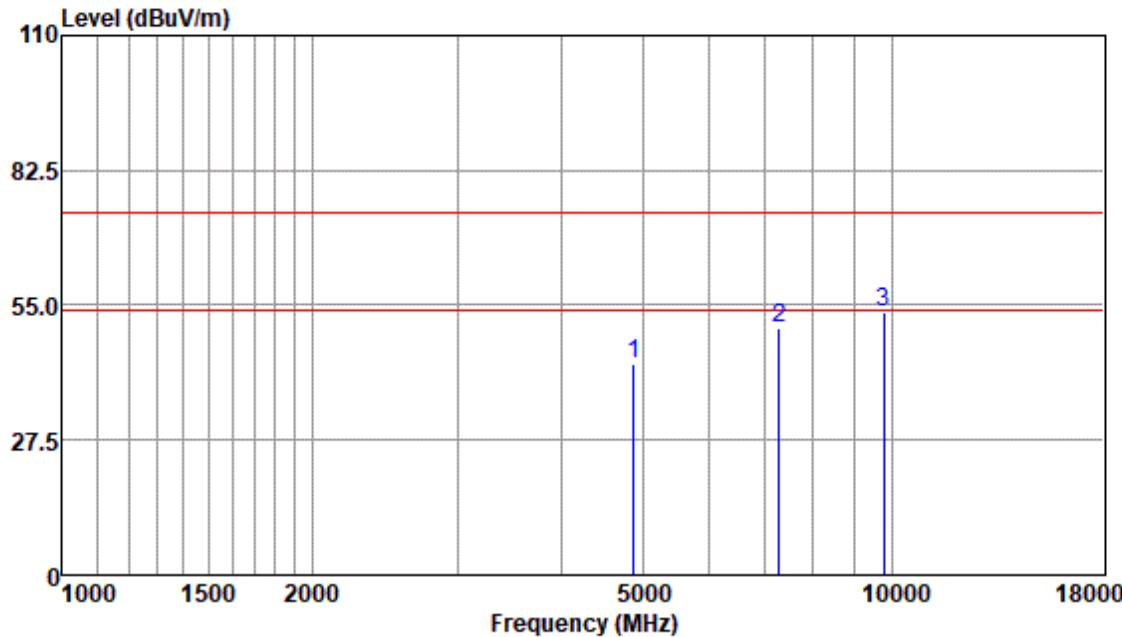
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor

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Test Mode: 03; 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	41.59	31.36	12.67	42.40	43.22	74.00	-30.78	Peak
7311.00	41.35	36.61	15.30	42.76	50.50	74.00	-23.50	Peak
9748.00	41.12	38.35	16.60	42.60	53.47	74.00	-20.53	Peak

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

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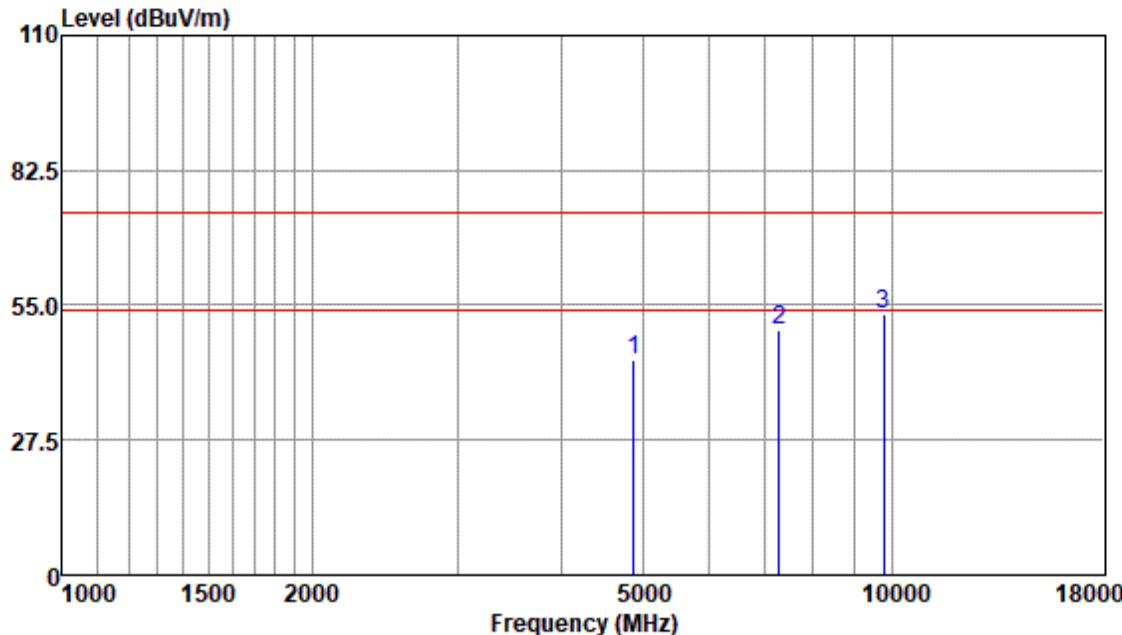
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	42.08	31.36	12.67	42.40	43.71	74.00	-30.29	Peak
7311.00	40.83	36.61	15.30	42.76	49.98	74.00	-24.02	Peak
9748.00	40.76	38.35	16.60	42.60	53.11	74.00	-20.89	Peak

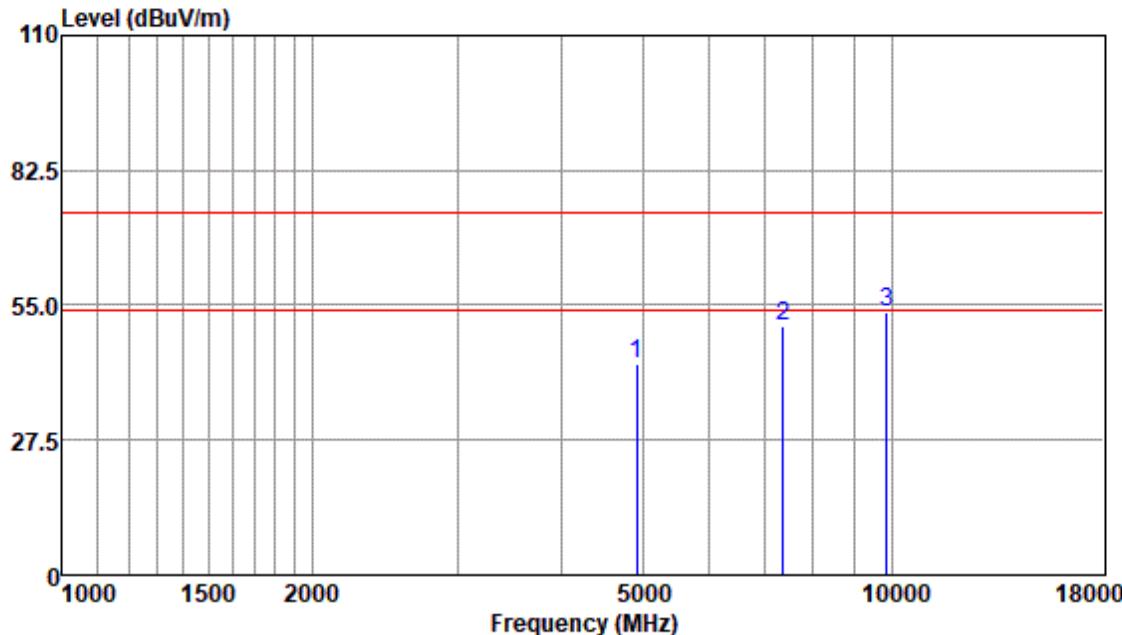
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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	41.06	31.46	12.72	42.40	42.84	74.00	-31.16	Peak
7386.00	41.26	36.83	15.33	42.78	50.64	74.00	-23.36	Peak
9848.00	41.15	38.43	16.60	42.57	53.61	74.00	-20.39	Peak

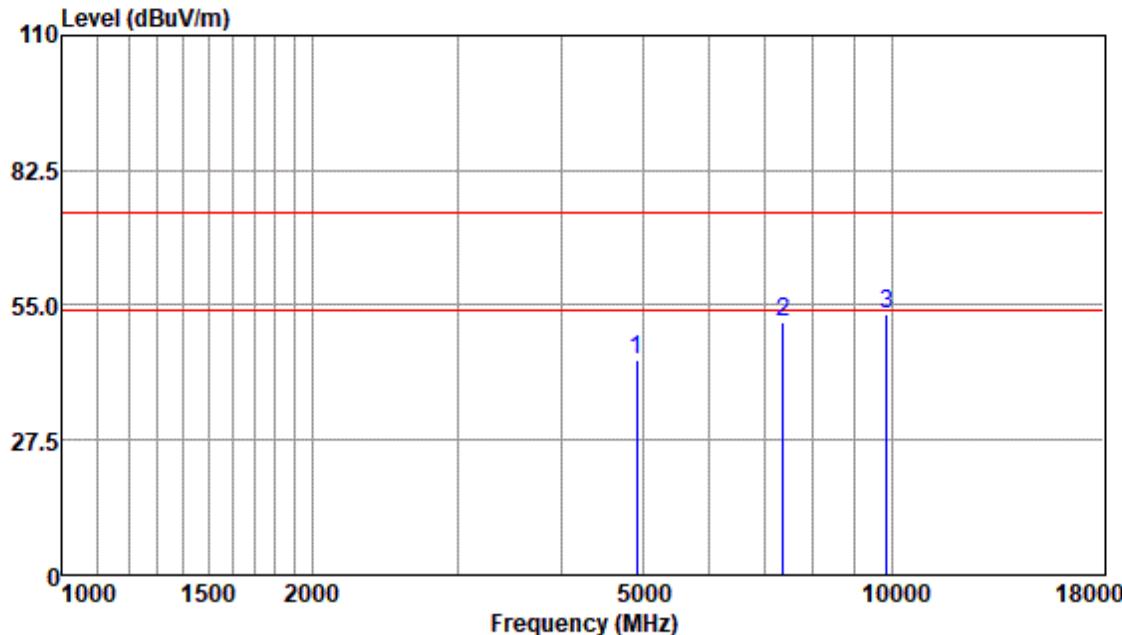
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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	
4924.00	41.90	31.46	12.72	42.40	43.68	74.00	-30.32	Peak
7386.00	42.09	36.83	15.33	42.78	51.47	74.00	-22.53	Peak
9848.00	40.76	38.43	16.60	42.57	53.22	74.00	-20.78	Peak

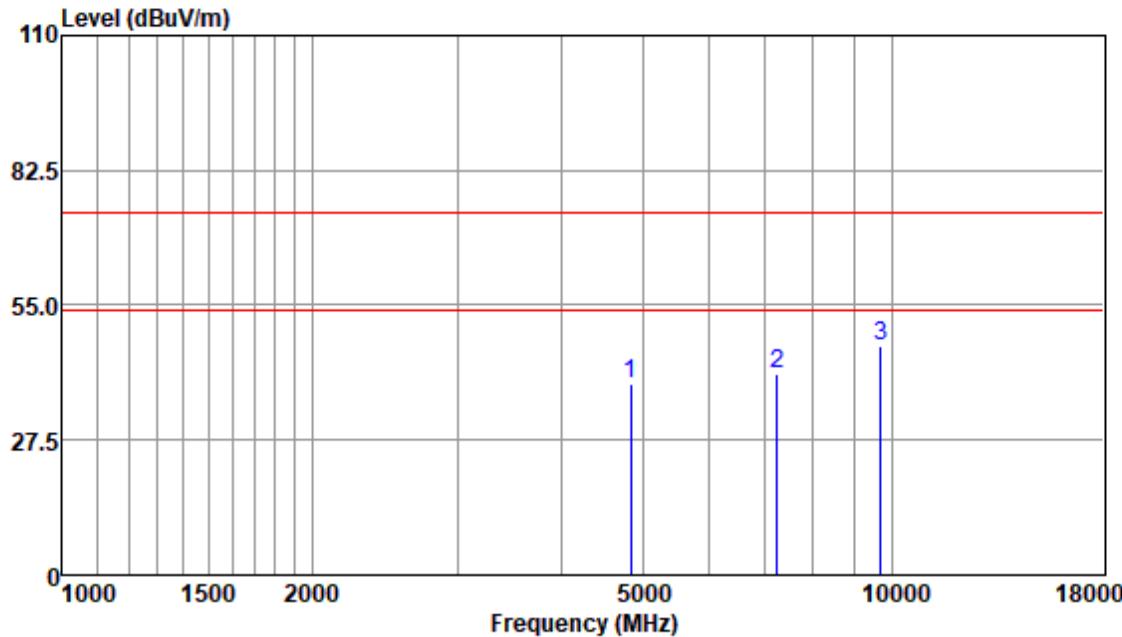
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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	42.09	30.98	4.77	38.74	39.10	74.00	-34.90	Peak
7266.00	39.02	33.42	5.78	37.13	41.09	74.00	-32.91	Peak
9688.00	39.14	35.12	6.59	34.16	46.69	74.00	-27.31	Peak

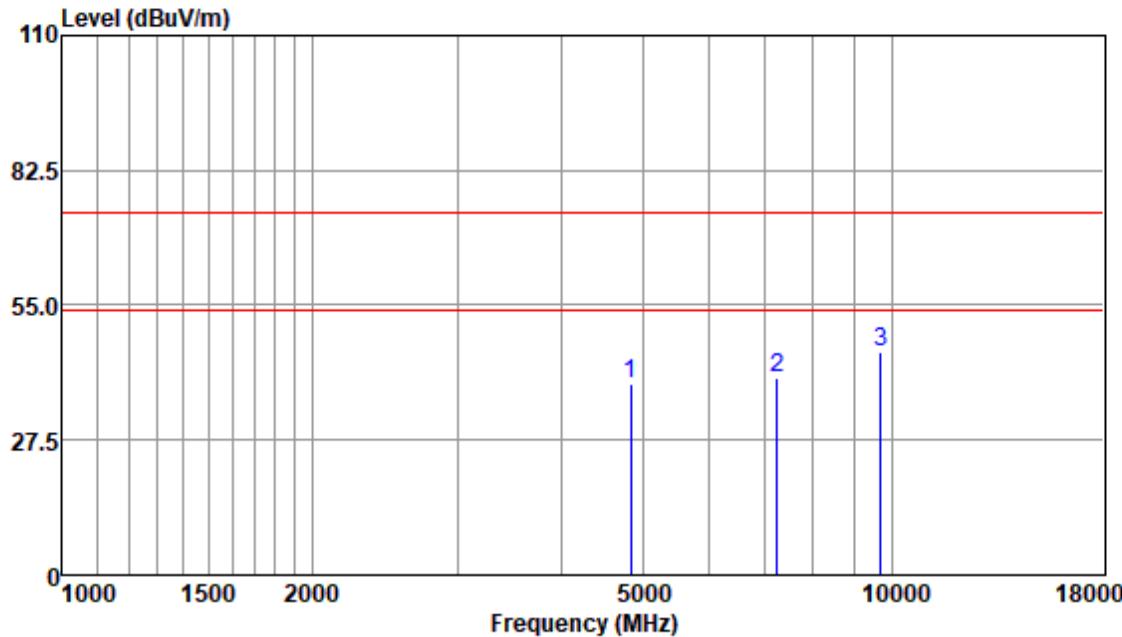
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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	41.86	30.98	4.77	38.74	38.87	74.00	-35.13	Peak
7266.00	38.19	33.42	5.78	37.13	40.26	74.00	-33.74	Peak
9688.00	37.90	35.12	6.59	34.16	45.45	74.00	-28.55	Peak

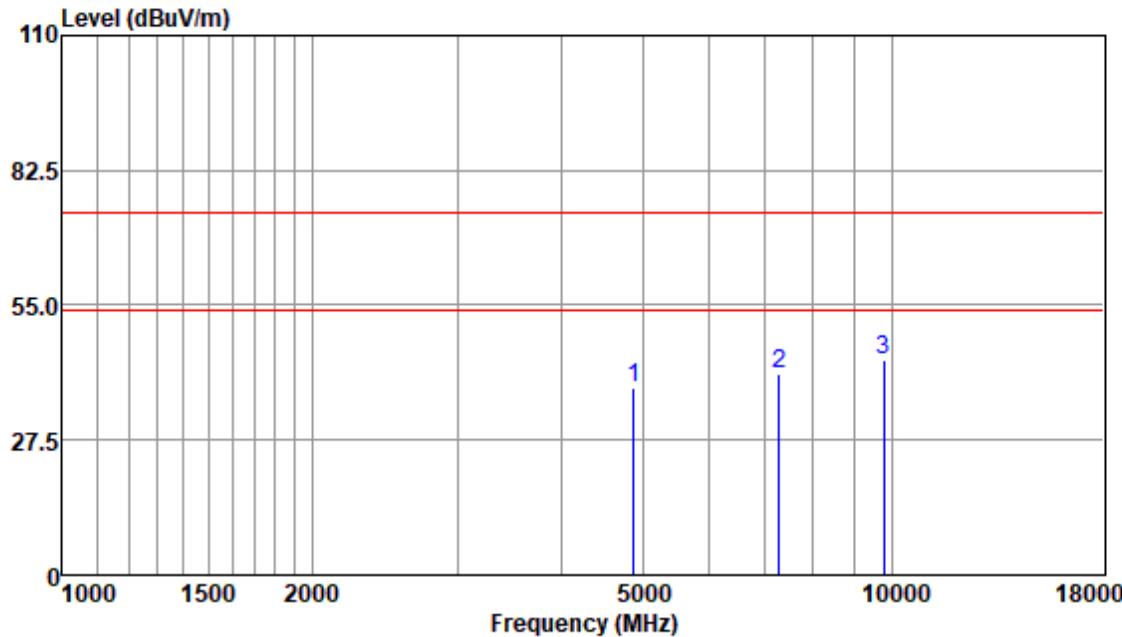
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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	41.38	31.06	4.48	38.78	38.14	74.00	-35.86	Peak
7311.00	38.84	33.47	5.80	37.11	41.00	74.00	-33.00	Peak
9748.00	36.43	35.10	6.46	34.15	43.84	74.00	-30.16	Peak

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

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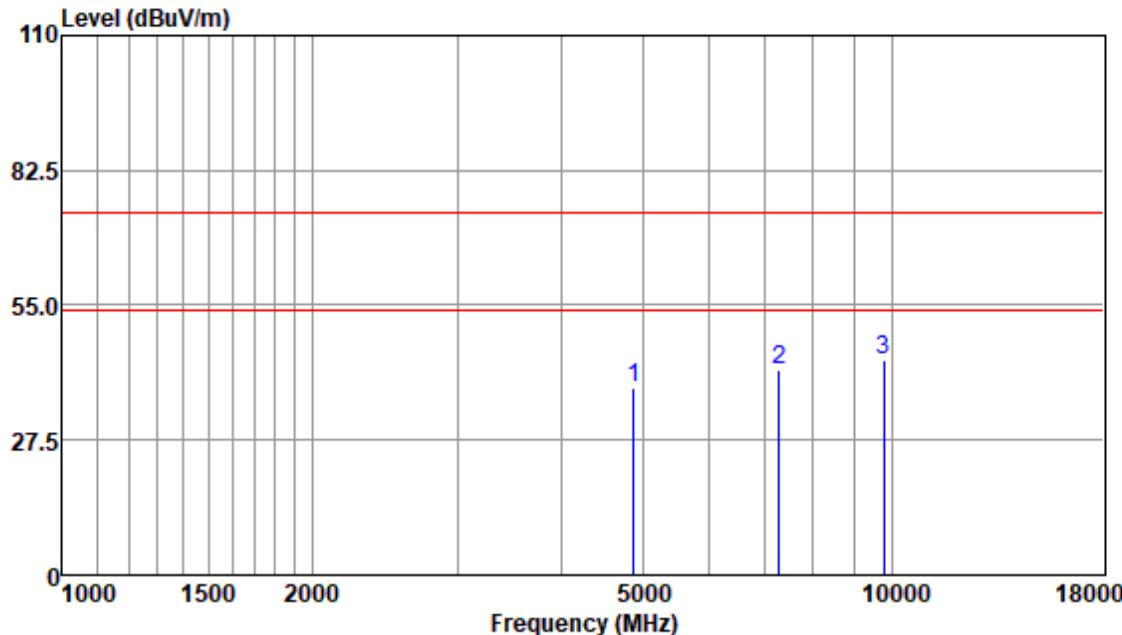
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Antenna Polarity : VERTICAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	41.35	31.06	4.48	38.78	38.11	74.00	-35.89	Peak
7311.00	39.50	33.47	5.80	37.11	41.66	74.00	-32.34	Peak
9748.00	36.43	35.10	6.46	34.15	43.84	74.00	-30.16	Peak

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

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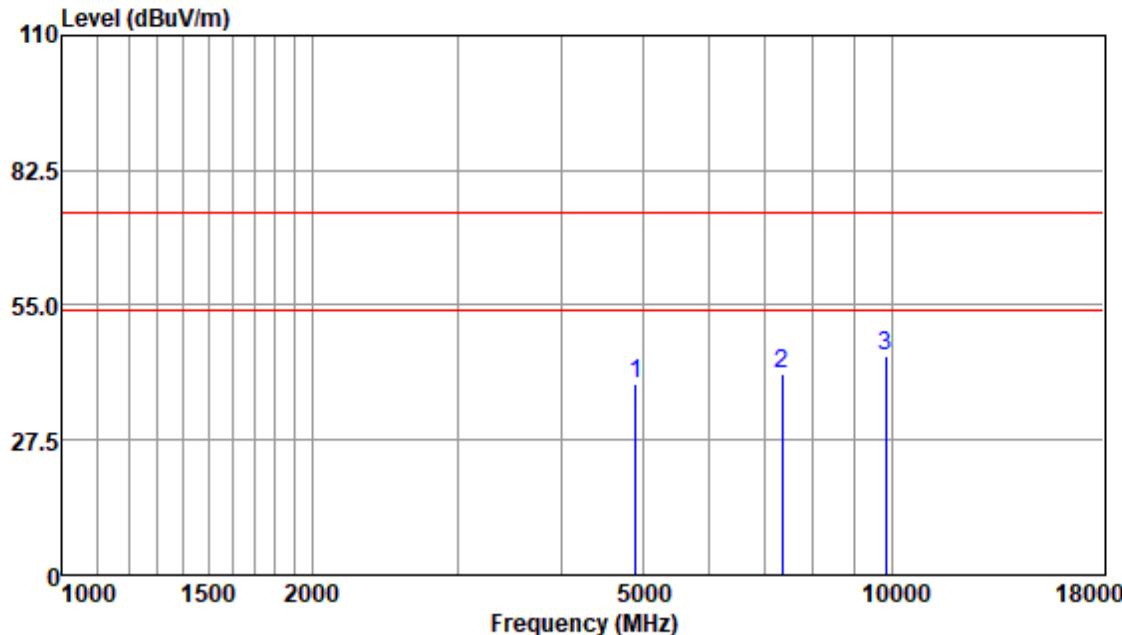
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity :HORIZONTAL

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limit Line	Over Limit	Remark
4904.00	42.35	31.14	4.13	38.81	38.81	74.00	-35.19	Peak
7356.00	38.55	33.53	6.17	37.08	41.17	74.00	-32.83	Peak
9808.00	37.13	35.08	6.50	34.14	44.57	74.00	-29.43	Peak

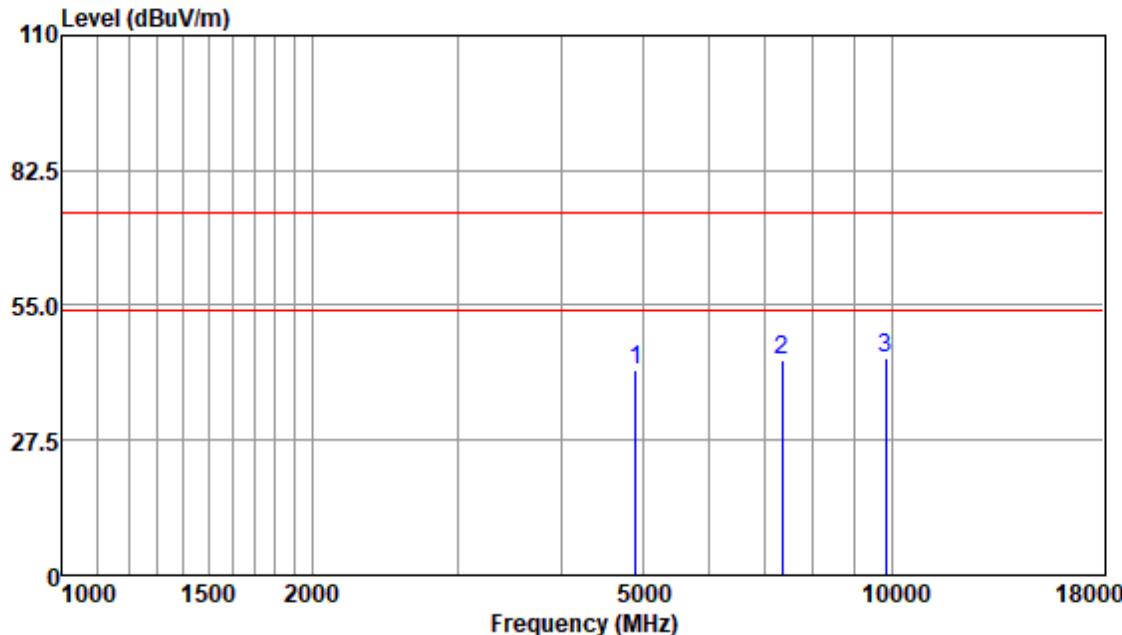
Note: Emission Level=Read Level+Antenna Factor+Cable loss+Preamp Factor



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Test Mode: 03; 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	45.27	31.14	4.13	38.81	41.73	74.00	-32.27	Peak
7356.00	41.14	33.53	6.17	37.08	43.76	74.00	-30.24	Peak
9808.00	36.72	35.08	6.50	34.14	44.16	74.00	-29.84	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 SHCR2208001757PV

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2208001757PV

10 Appendix

10.1 Appendix A: DTS Bandwidth

10.1.1 Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.640	2407.000	2416.640	0.5	PASS
		2437	10.000	2432.000	2442.000	0.5	PASS
		2462	10.000	2457.000	2467.000	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
		2437	17.320	2428.440	2445.760	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant1	2422	32.960	2405.680	2438.640	0.5	PASS
		2437	33.200	2420.360	2453.560	0.5	PASS
		2452	33.280	2435.360	2468.640	0.5	PASS



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10.1.2 Test Graphs



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10.2 Appendix B: Occupied Channel Bandwidth

10.2.1 Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.484	2405.333	2418.817	---	---
		2437	13.712	2430.235	2443.947	---	---
		2462	13.775	2455.191	2468.966	---	---
11G	Ant1	2412	18.120	2403.073	2421.193	---	---
		2437	18.222	2428.030	2446.252	---	---
		2462	18.278	2452.920	2471.198	---	---
11N20SISO	Ant1	2412	18.918	2402.562	2421.480	---	---
		2437	17.413	2428.302	2445.715	---	---
		2462	19.044	2452.439	2471.483	---	---
11N40SISO	Ant1	2422	34.726	2404.749	2439.475	---	---
		2437	34.689	2419.770	2454.459	---	---
		2452	34.663	2434.724	2469.387	---	---

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10.2.2 Test Graphs



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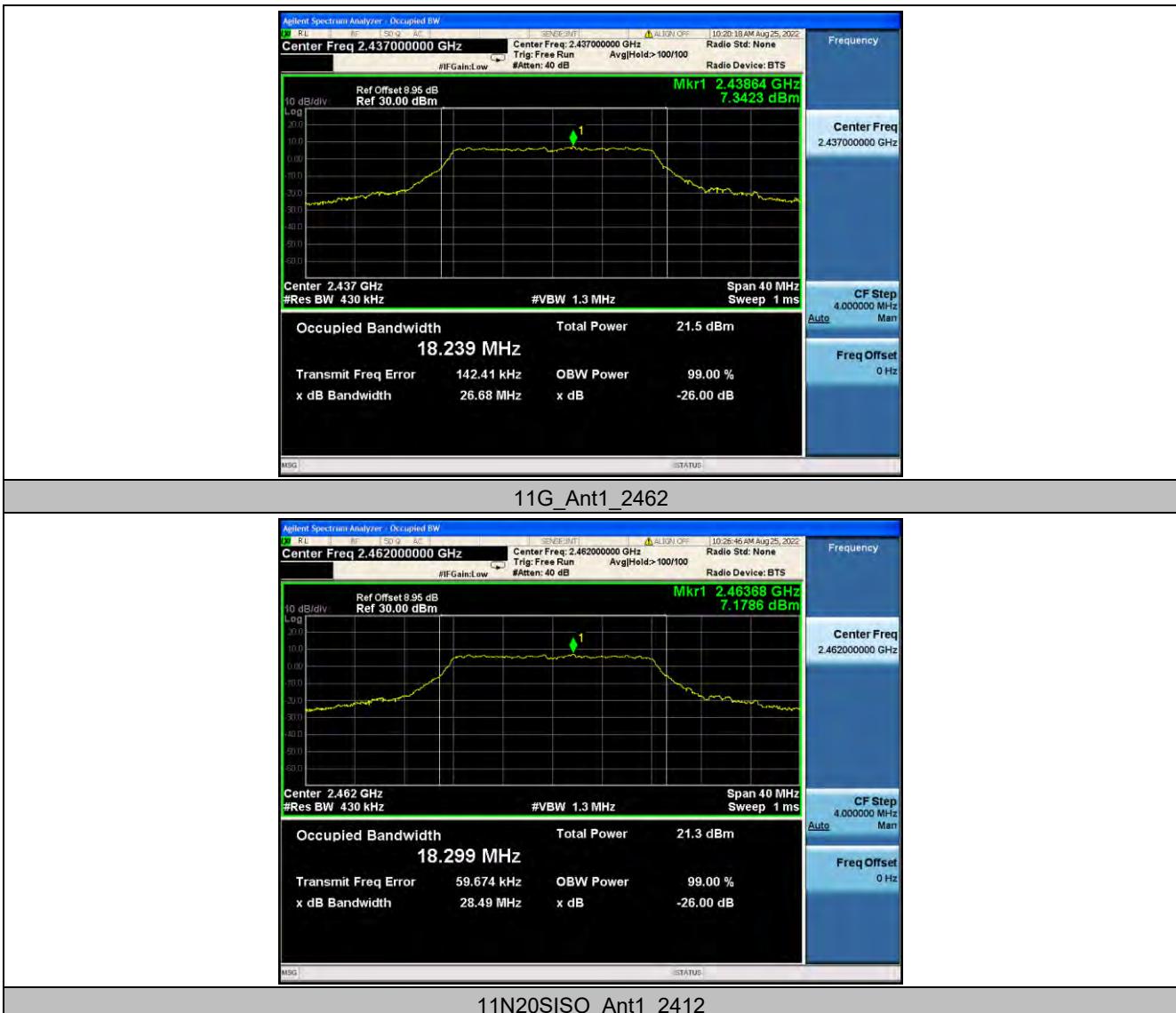
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10.3 Appendix C: Maximum conducted output power

10.3.1 Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.33	≤30.00	PASS
		2437	16.93	≤30.00	PASS
		2462	16.73	≤30.00	PASS
11G	Ant1	2412	14.22	≤30.00	PASS
		2437	14.74	≤30.00	PASS
		2462	14.65	≤30.00	PASS
11N20SISO	Ant1	2412	13.19	≤30.00	PASS
		2437	13.24	≤30.00	PASS
		2462	13.90	≤30.00	PASS
11N40SISO	Ant1	2422	13.89	≤30.00	PASS
		2437	13.10	≤30.00	PASS
		2452	13.32	≤30.00	PASS

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10.3.2 Test Graphs



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10.4 Appendix D: Maximum power spectral density

10.4.1 Test Result

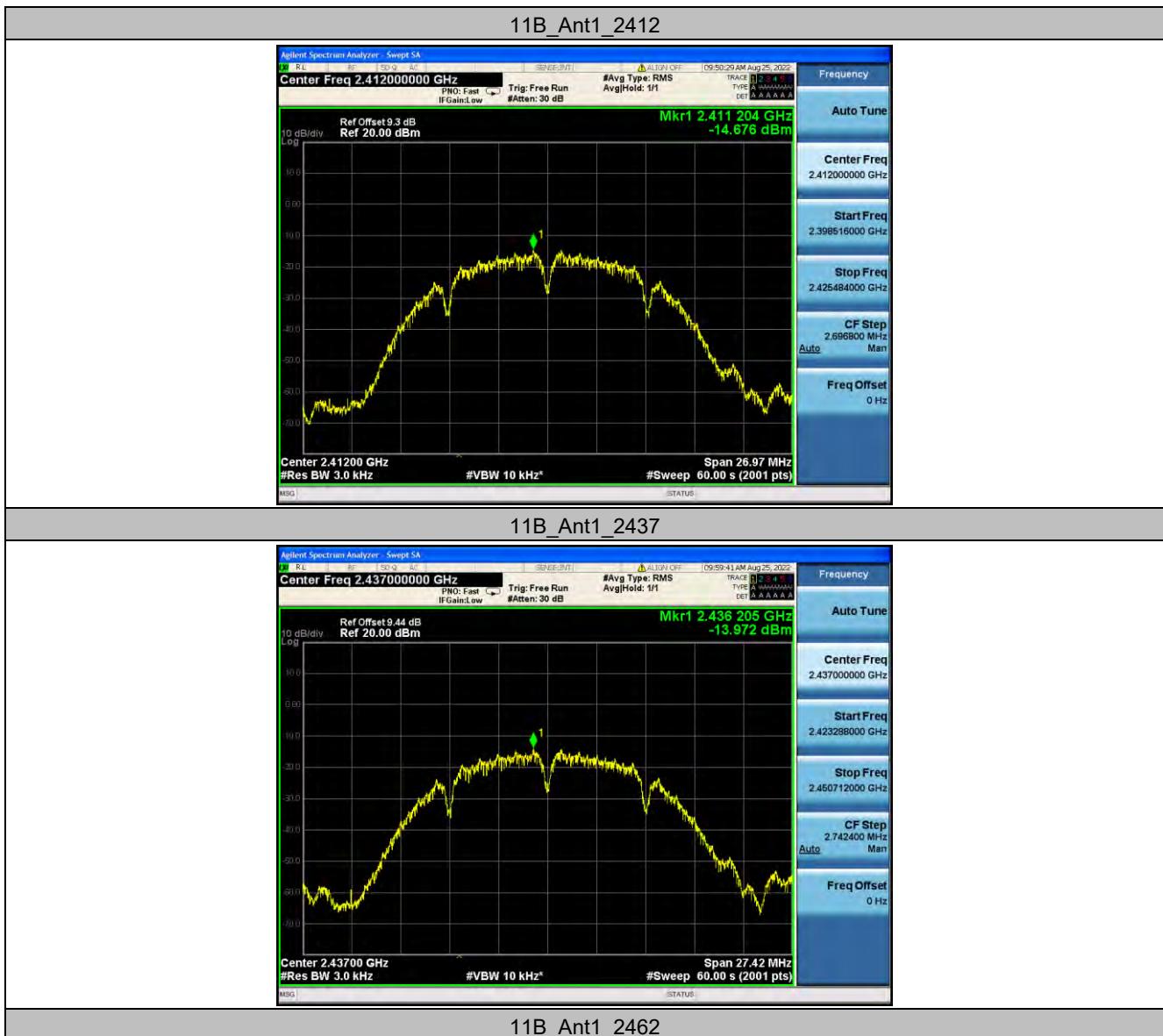
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-14.68	≤8.00	PASS
		2437	-13.97	≤8.00	PASS
		2462	-14.22	≤8.00	PASS
11G	Ant1	2412	-18.88	≤8.00	PASS
		2437	-18.14	≤8.00	PASS
		2462	-18.46	≤8.00	PASS
11N20SISO	Ant1	2412	-19.77	≤8.00	PASS
		2437	-20.73	≤8.00	PASS
		2462	-19.2	≤8.00	PASS
11N40SISO	Ant1	2422	-22.81	≤8.00	PASS
		2437	-23.22	≤8.00	PASS
		2452	-23.36	≤8.00	PASS

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10.4.2 Test Graphs



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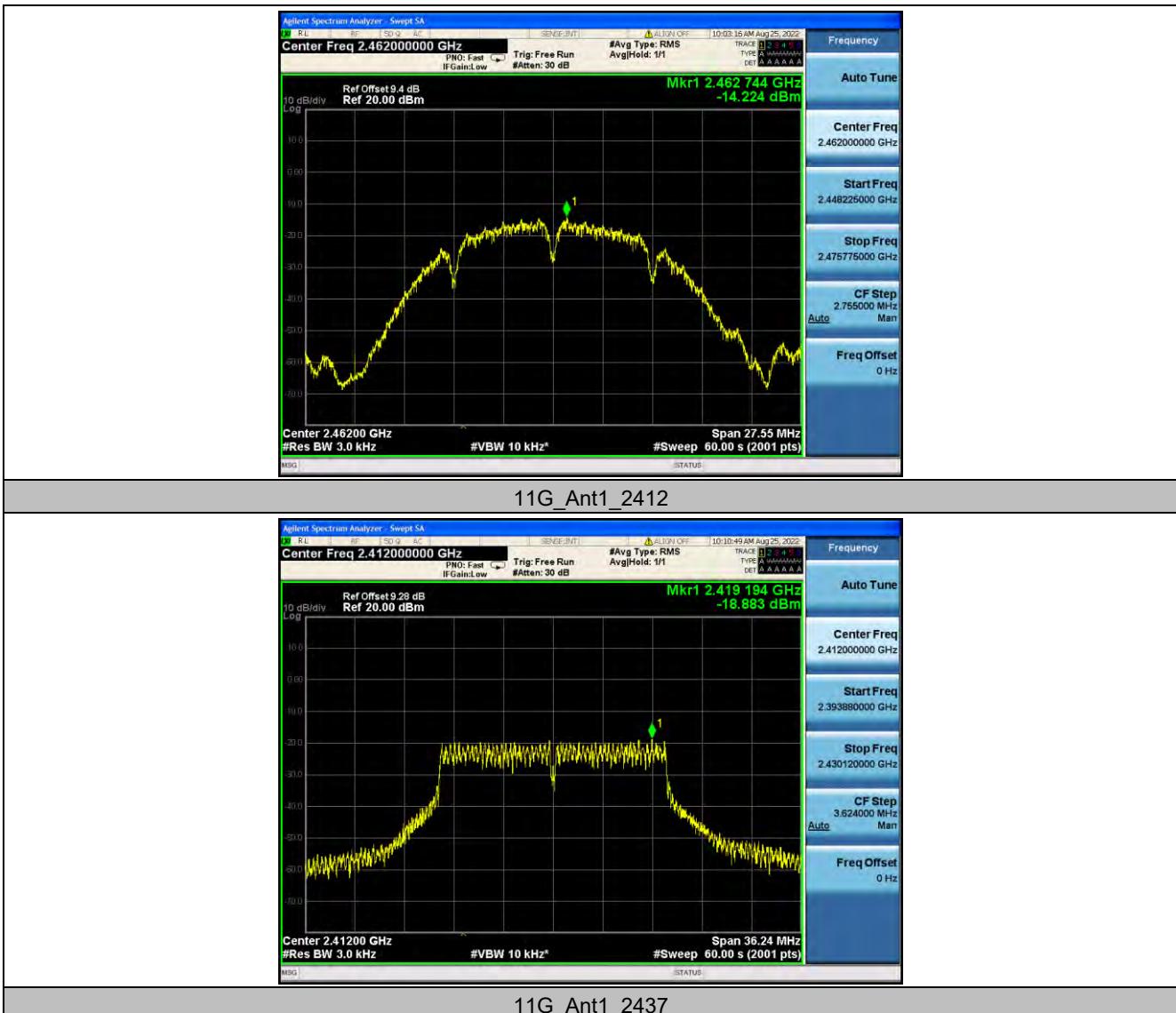


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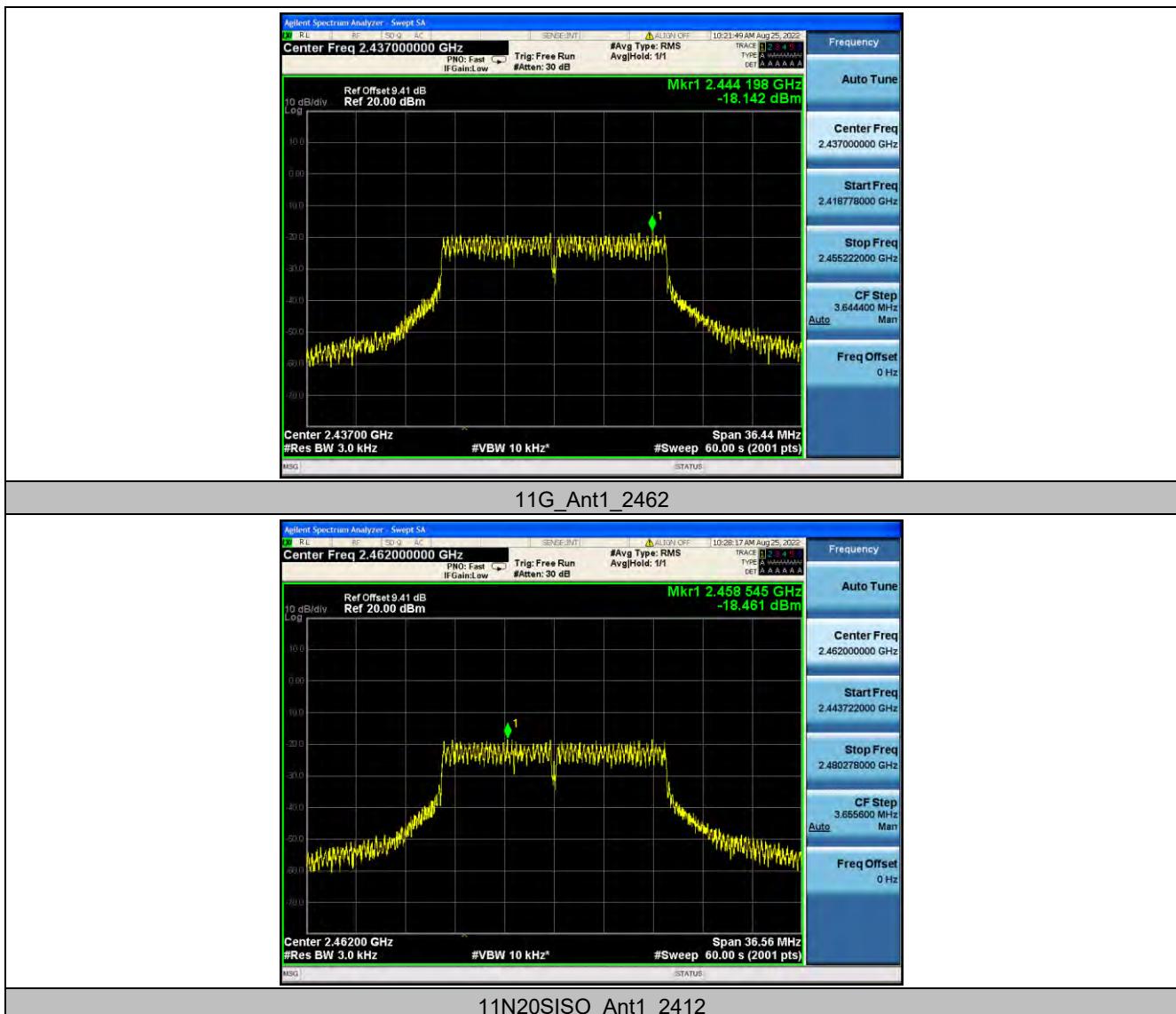
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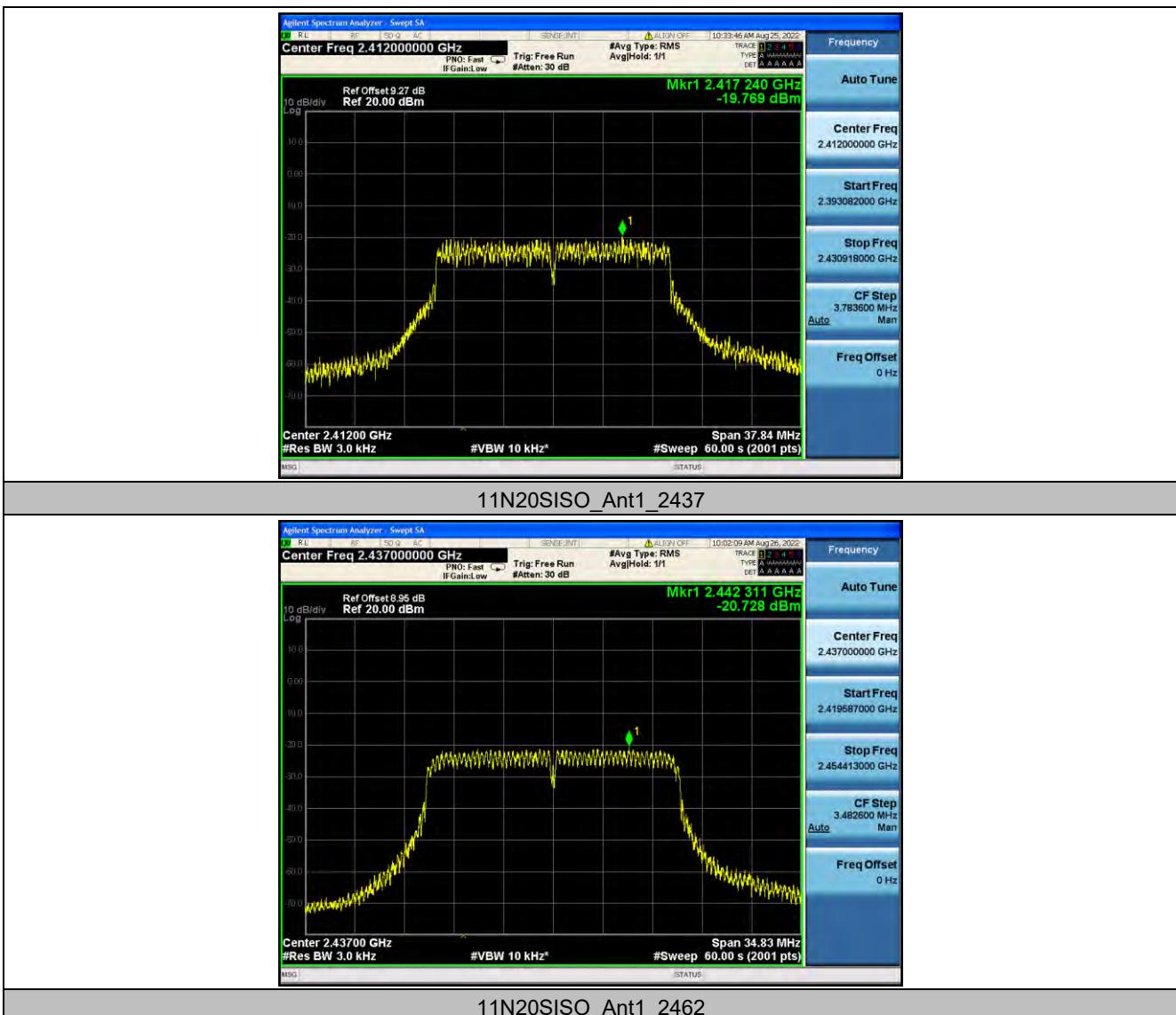
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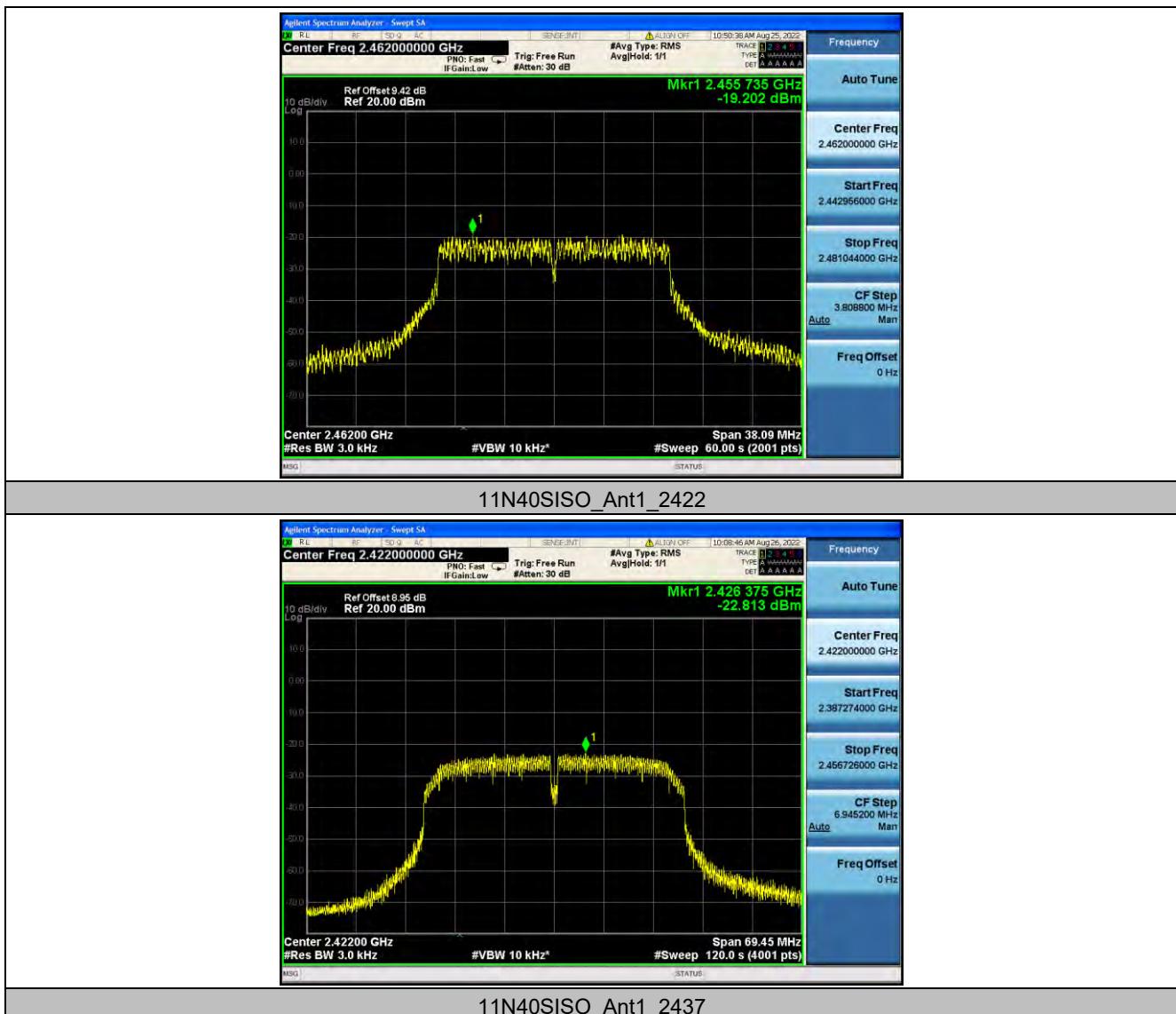
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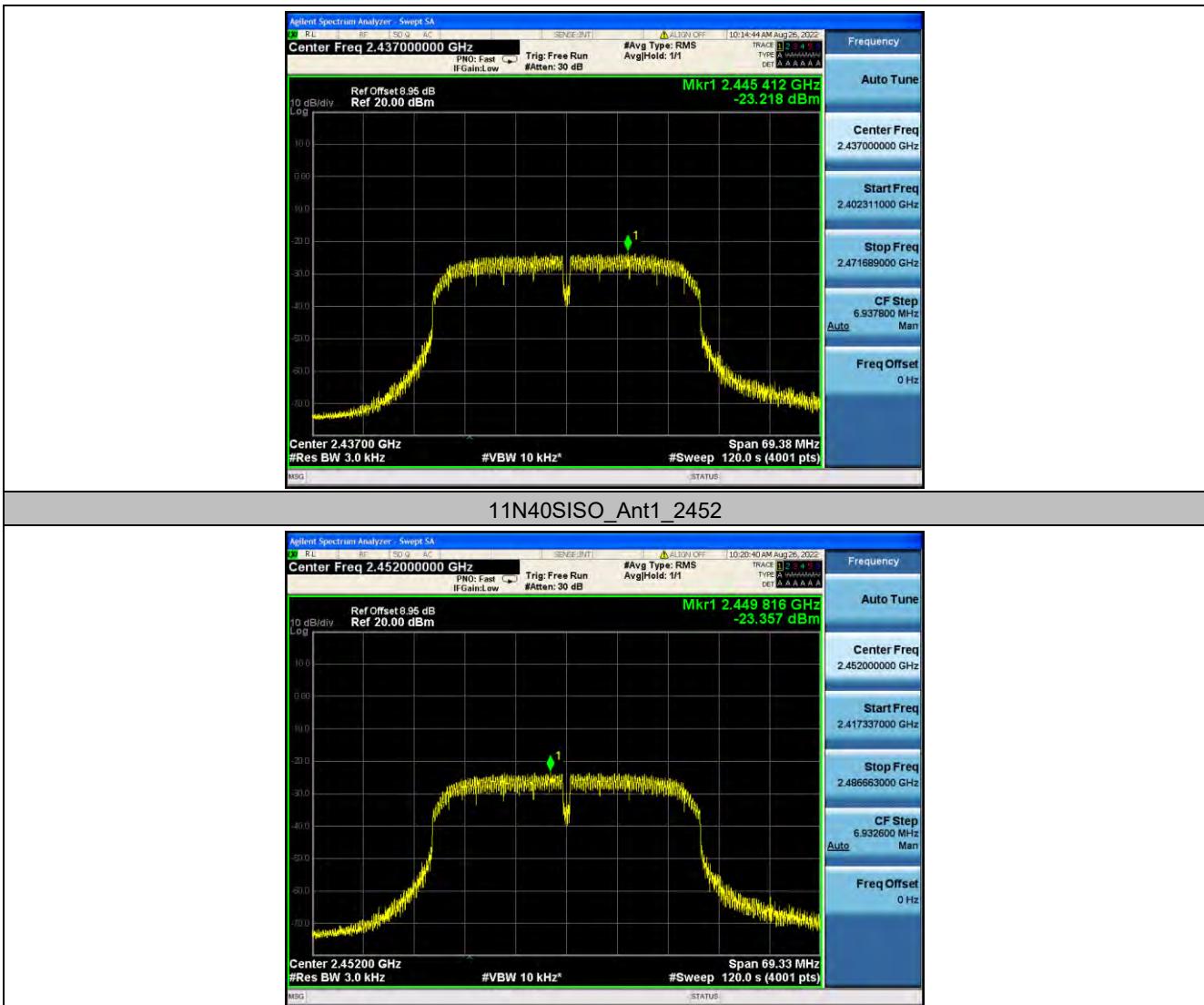
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10.5 Appendix E: Band edge measurements

10.5.1 Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.86	-37.32	≤-23.14	PASS
		High	2462	7.30	-47.09	≤-22.7	PASS
11G	Ant1	Low	2412	3.16	-27.66	≤-26.84	PASS
		High	2462	3.98	-37.71	≤-26.02	PASS
11N20SISO	Ant1	Low	2412	2.25	-30.66	≤-27.75	PASS
		High	2462	3.15	-34.66	≤-26.85	PASS
11N40SISO	Ant1	Low	2422	-2.15	-37.67	≤-32.15	PASS
		High	2452	-2.72	-41.43	≤-32.72	PASS



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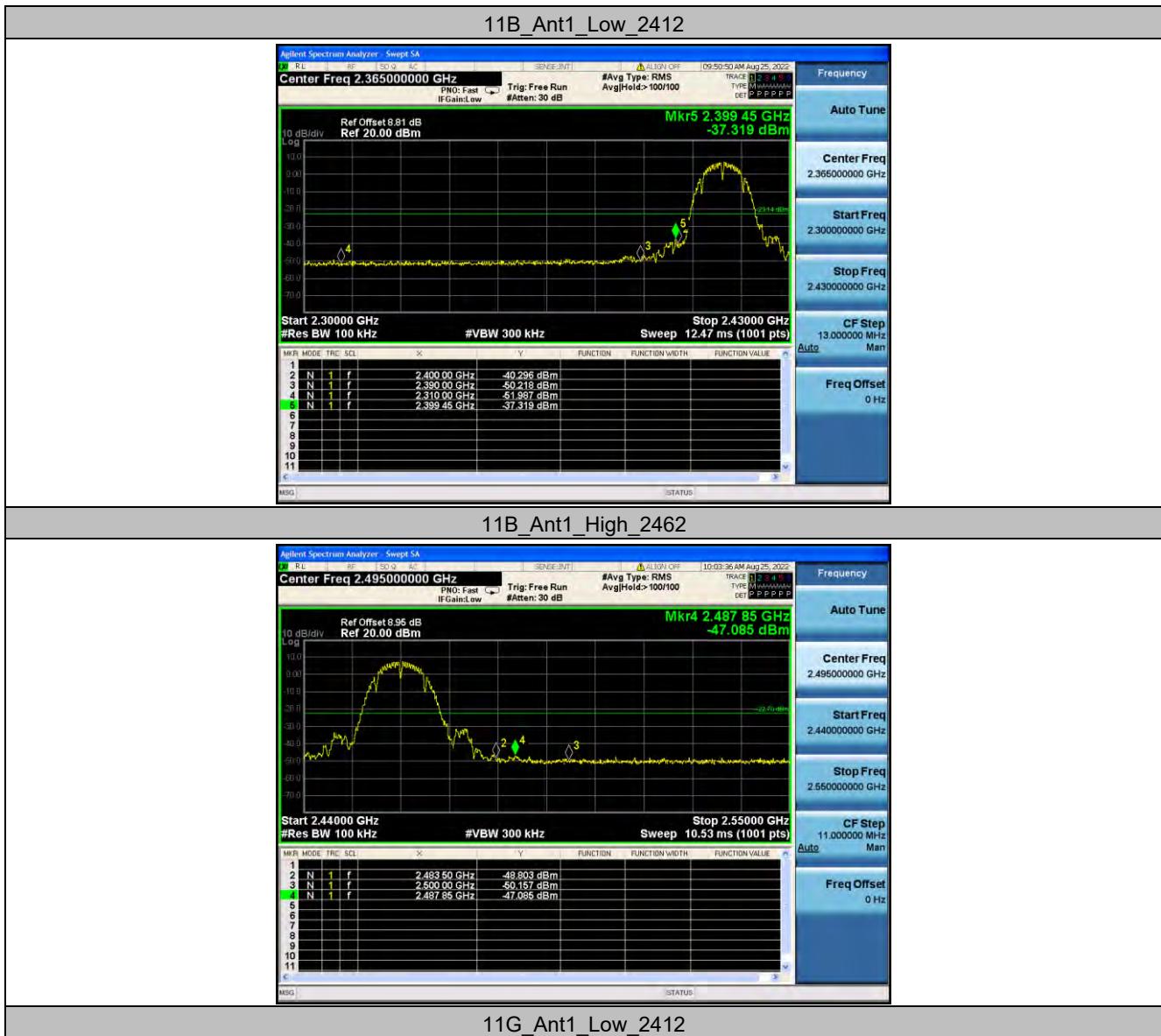
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10.5.2 Test Graphs



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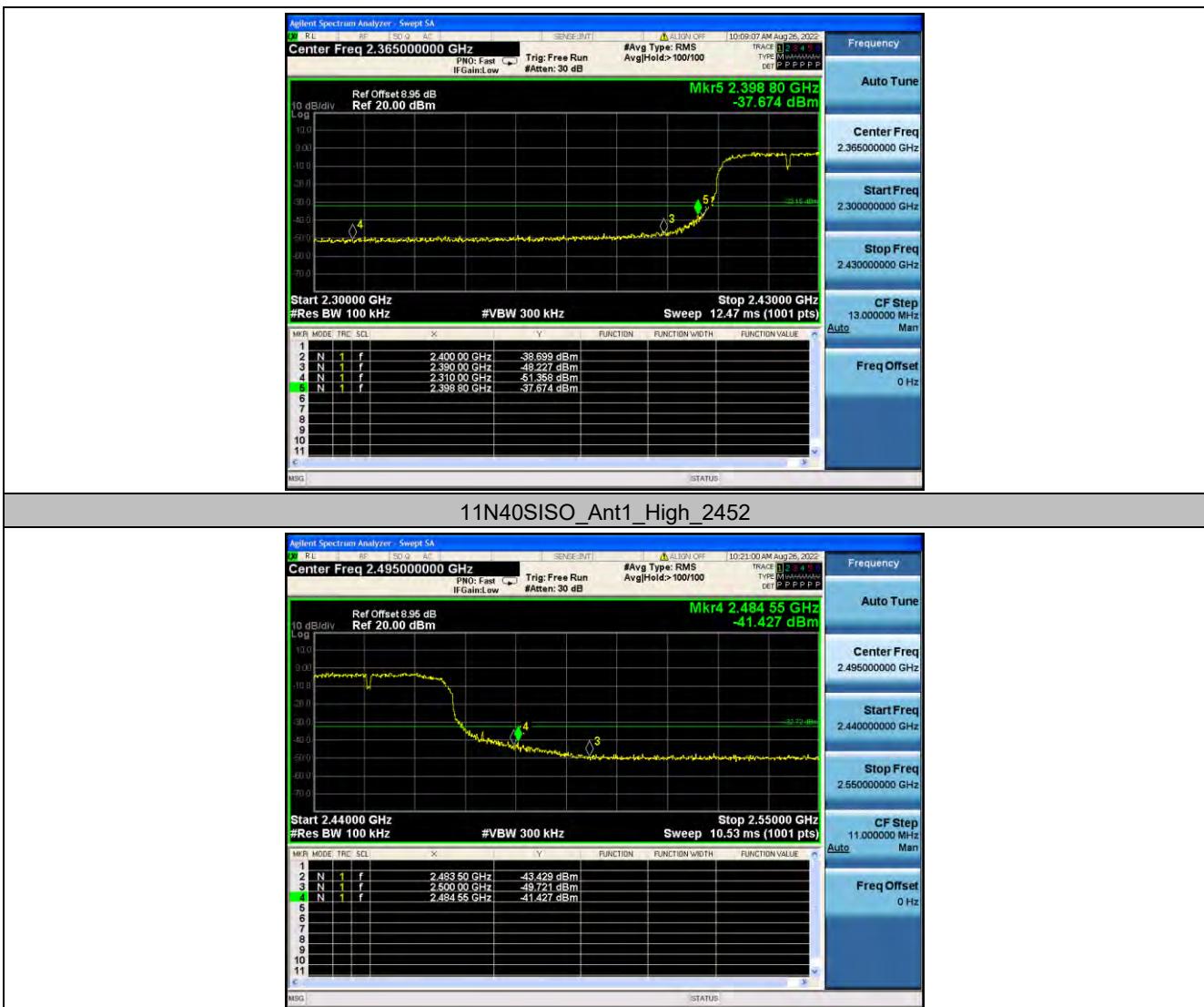


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10.6 Appendix F: Conducted Spurious Emission

10.6.1 Test Result

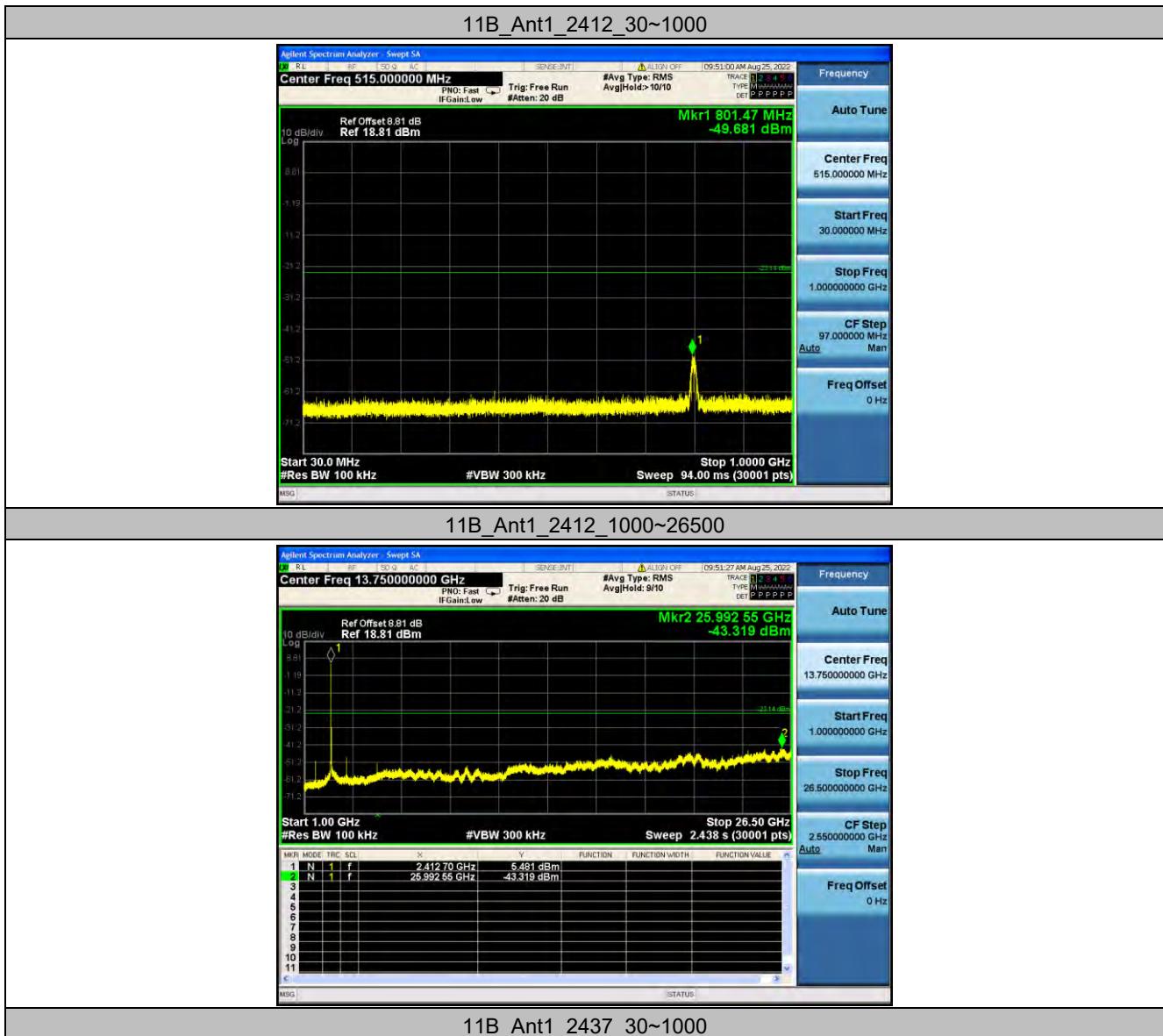
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	6.86	-49.68	≤-23.14	PASS
			1000~26500	6.86	-43.32	≤-23.14	PASS
		2437	30~1000	7.53	-48.93	≤-22.47	PASS
			1000~26500	7.53	-43.25	≤-22.47	PASS
		2462	30~1000	7.30	-49.06	≤-22.7	PASS
			1000~26500	7.30	-43.4	≤-22.7	PASS
11G	Ant1	2412	30~1000	3.16	-49.47	≤-26.84	PASS
			1000~26500	3.16	-42.92	≤-26.84	PASS
		2437	30~1000	4.08	-50.29	≤-25.92	PASS
			1000~26500	4.08	-43.1	≤-25.92	PASS
		2462	30~1000	3.98	-49.83	≤-26.02	PASS
			1000~26500	3.98	-43.2	≤-26.02	PASS
11N20SISO	Ant1	2412	30~1000	2.25	-50.54	≤-27.75	PASS
			1000~26500	2.25	-43.16	≤-27.75	PASS
		2437	30~1000	0.57	-54.23	≤-29.43	PASS
			1000~26500	0.57	-43.17	≤-29.43	PASS
		2462	30~1000	3.15	-50.6	≤-26.85	PASS
			1000~26500	3.15	-43.44	≤-26.85	PASS
11N40SISO	Ant1	2422	30~1000	-2.15	-56.11	≤-32.15	PASS
			1000~26500	-2.15	-43.52	≤-32.15	PASS
		2437	30~1000	-2.75	-56.62	≤-32.75	PASS
			1000~26500	-2.75	-42.66	≤-32.75	PASS
		2452	30~1000	-2.72	-56.62	≤-32.72	PASS
			1000~26500	-2.72	-42.8	≤-32.72	PASS

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10.6.2 Test Graphs



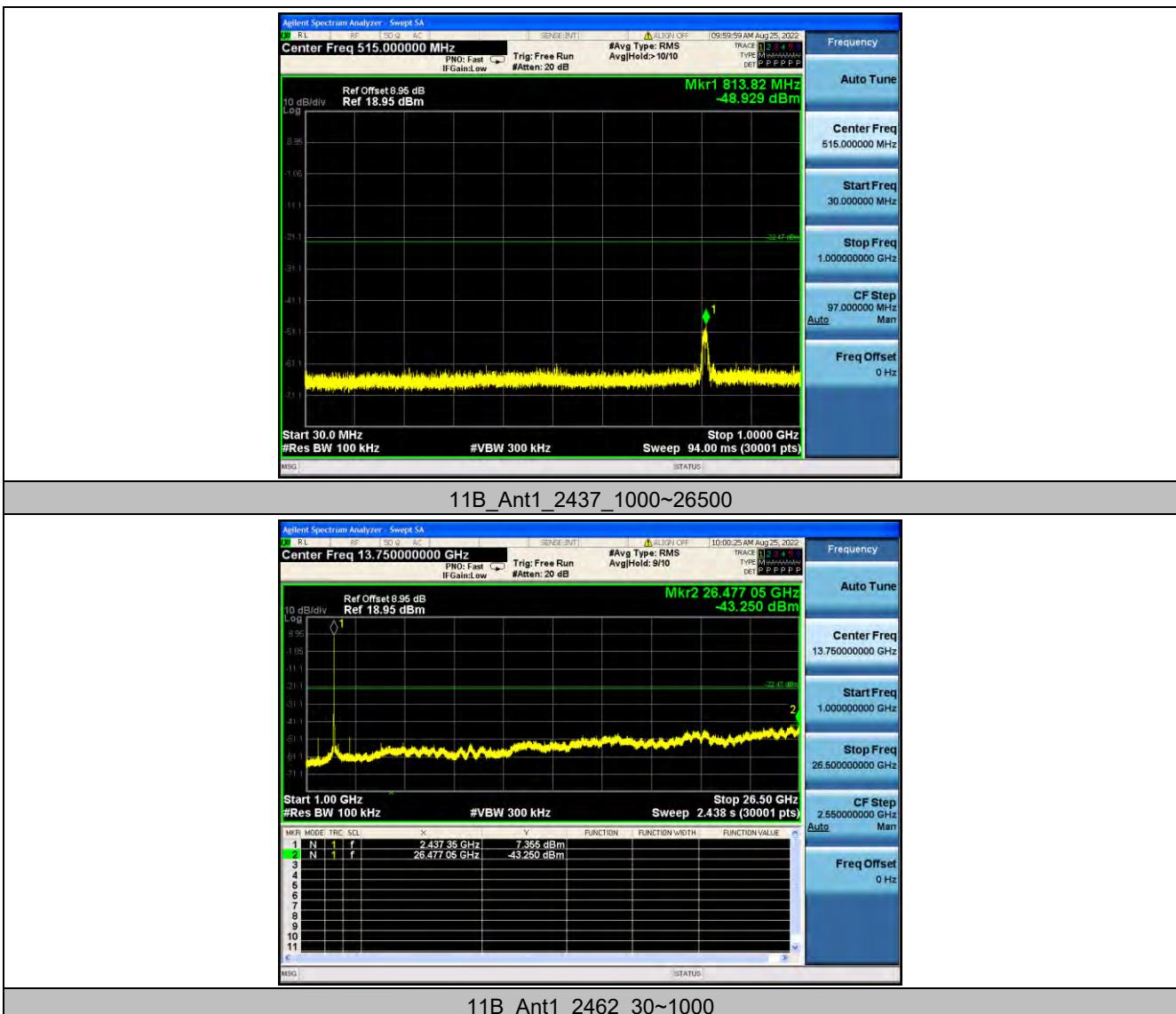
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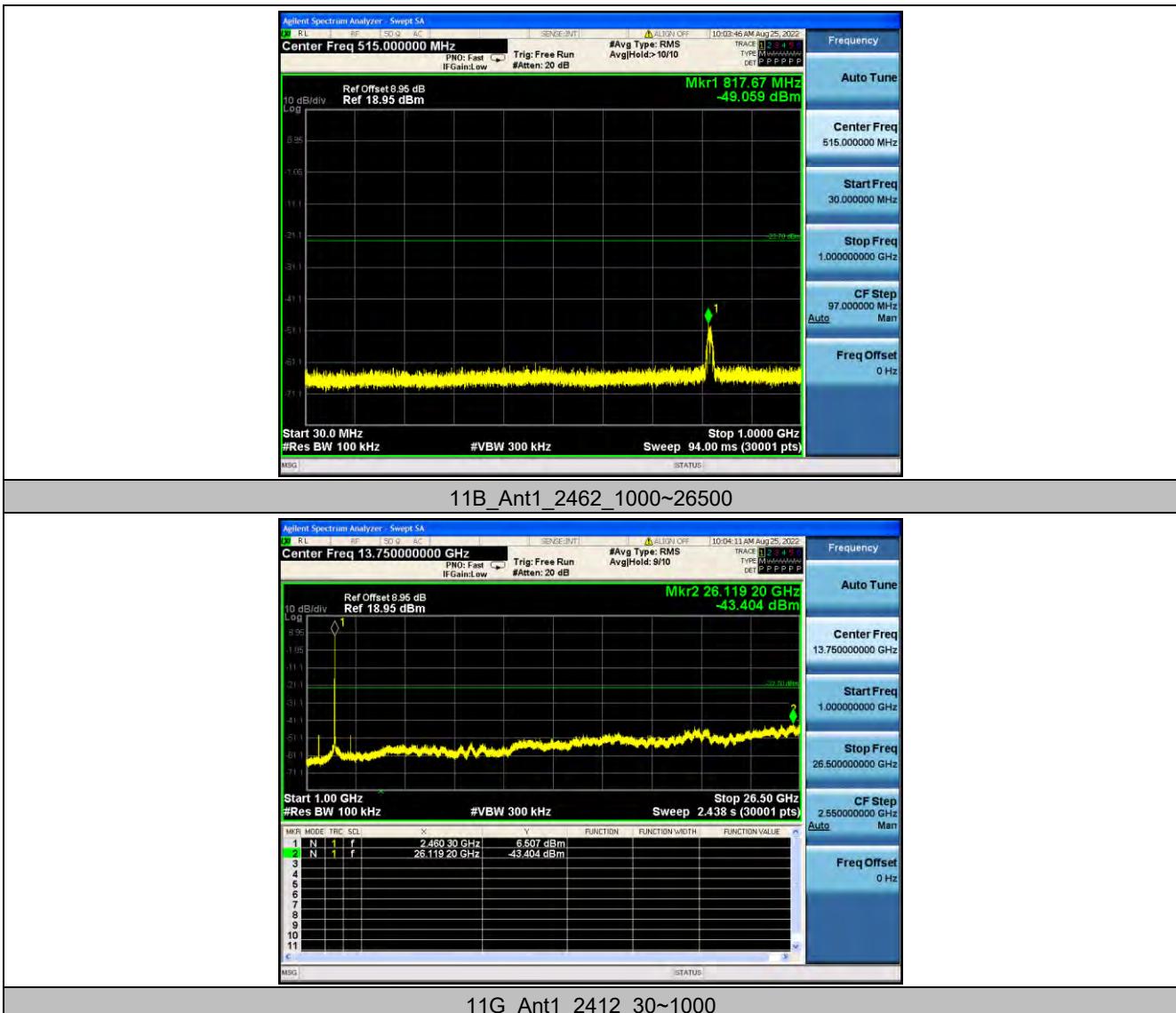
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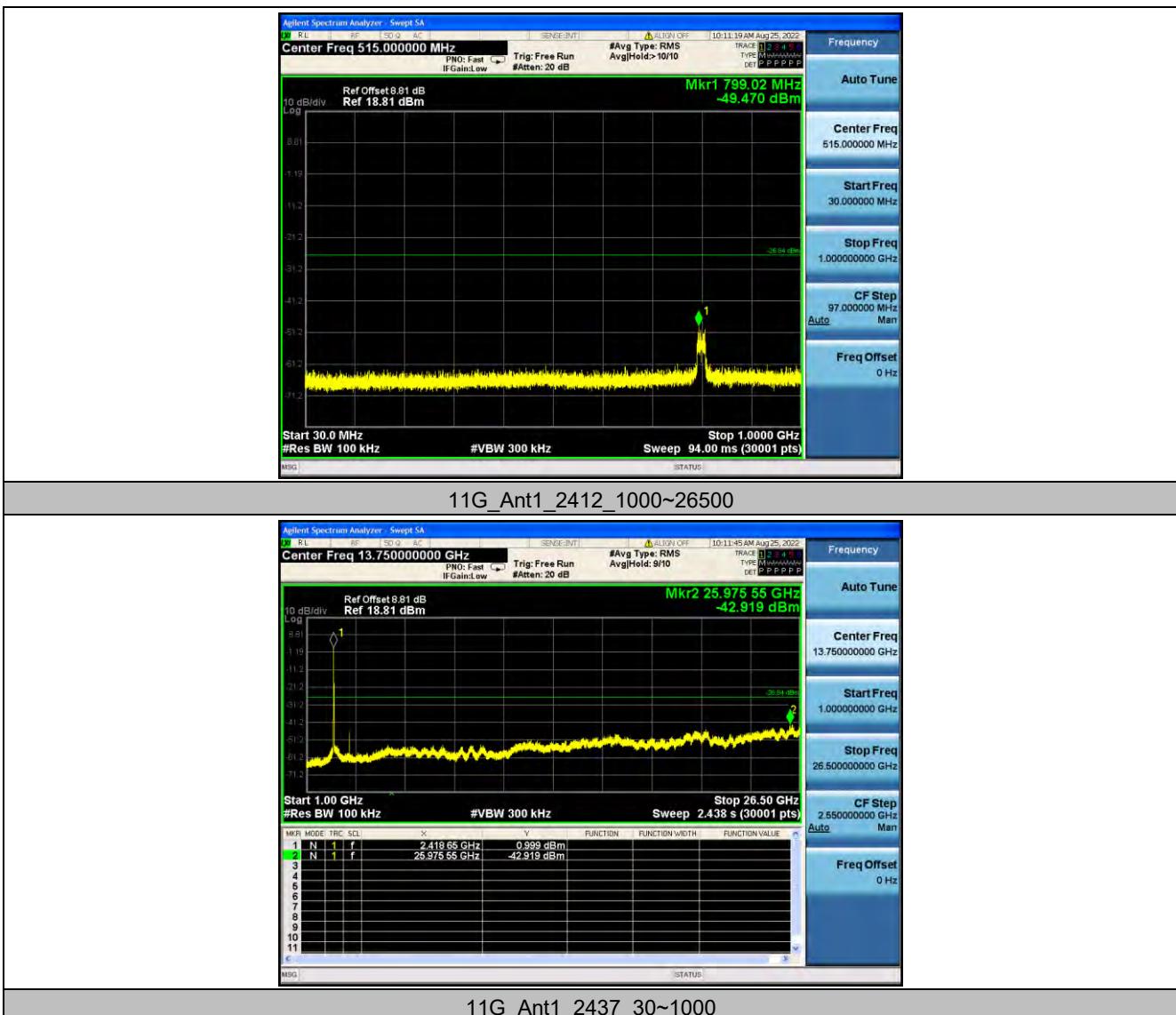
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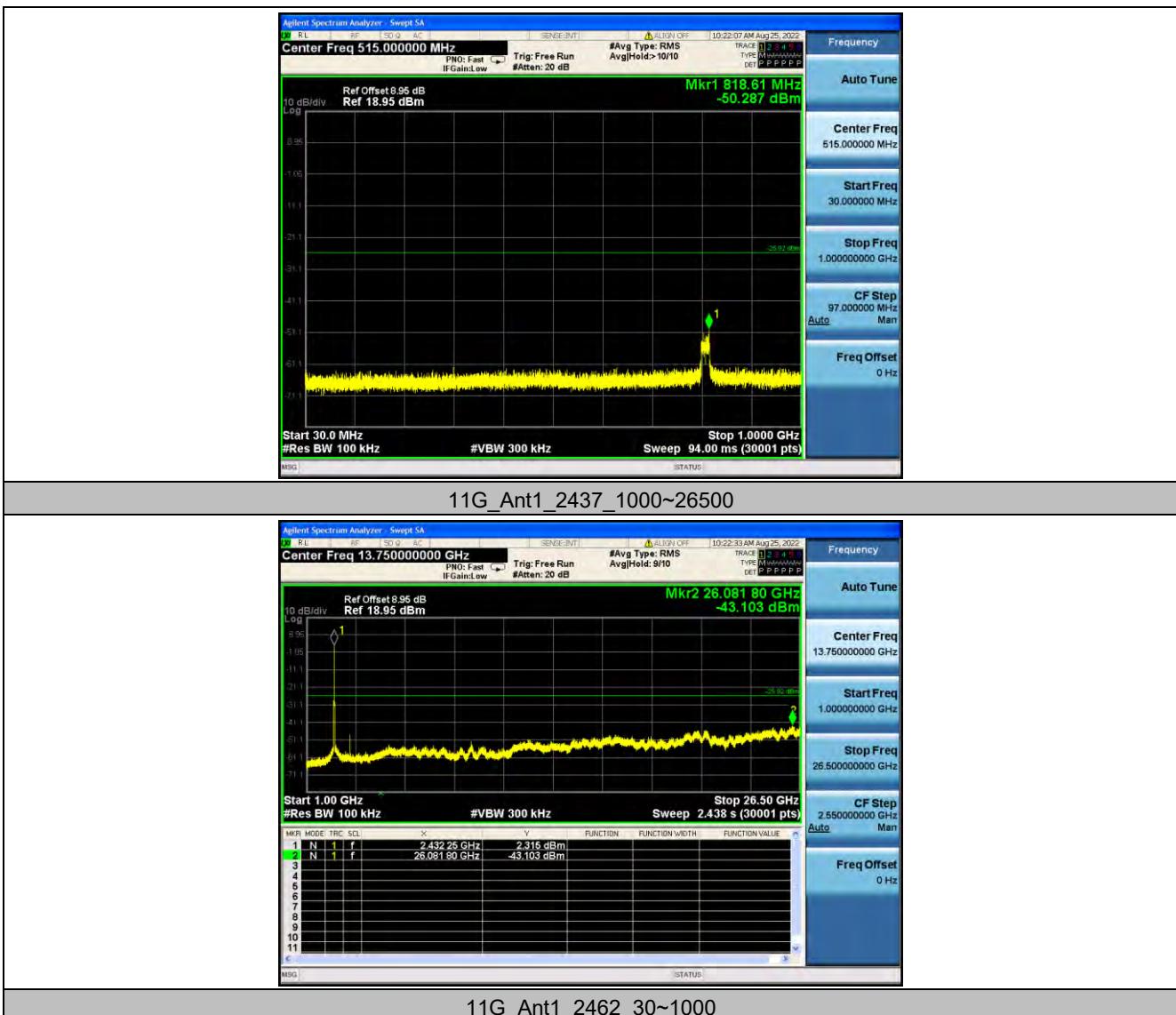
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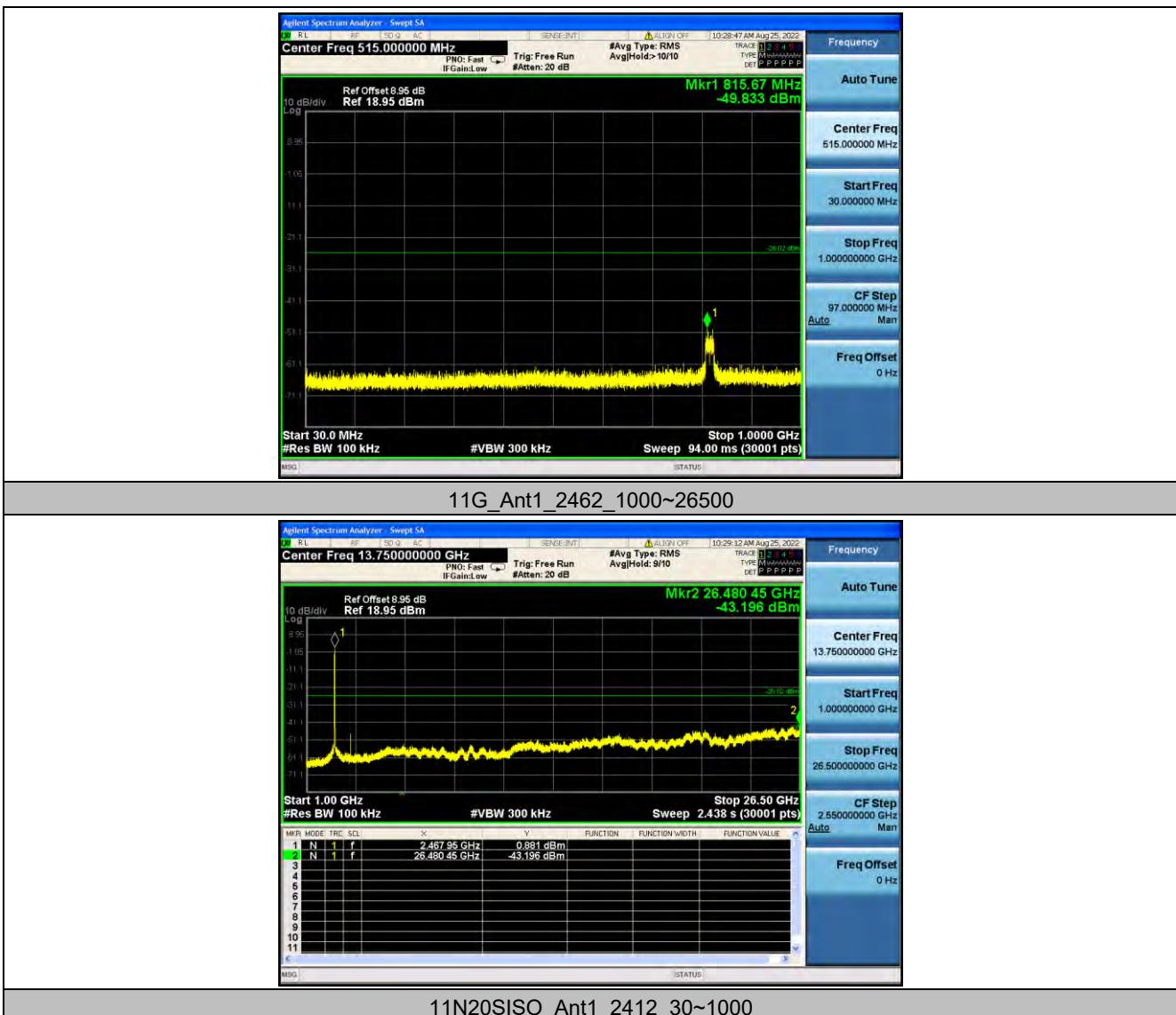
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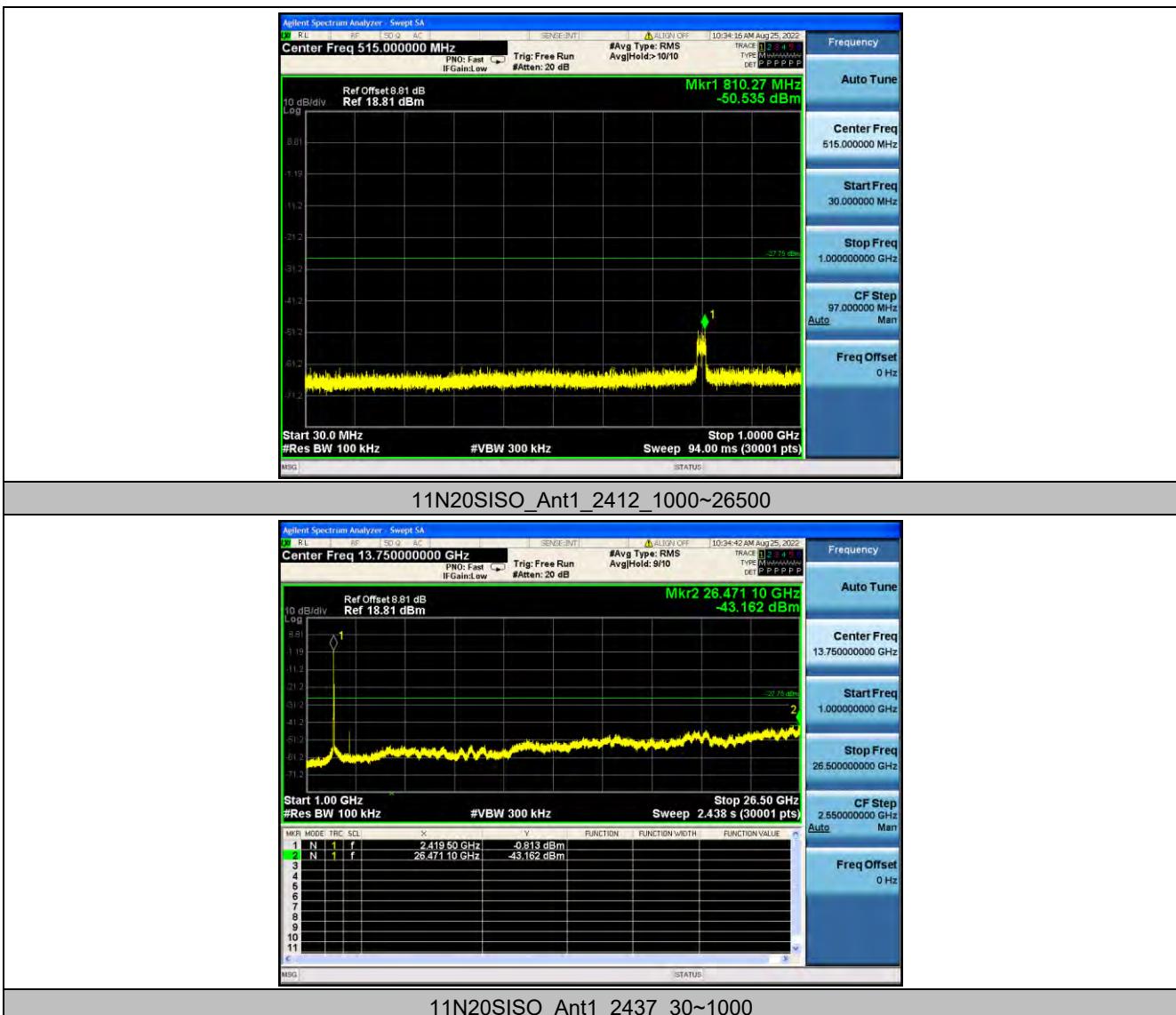
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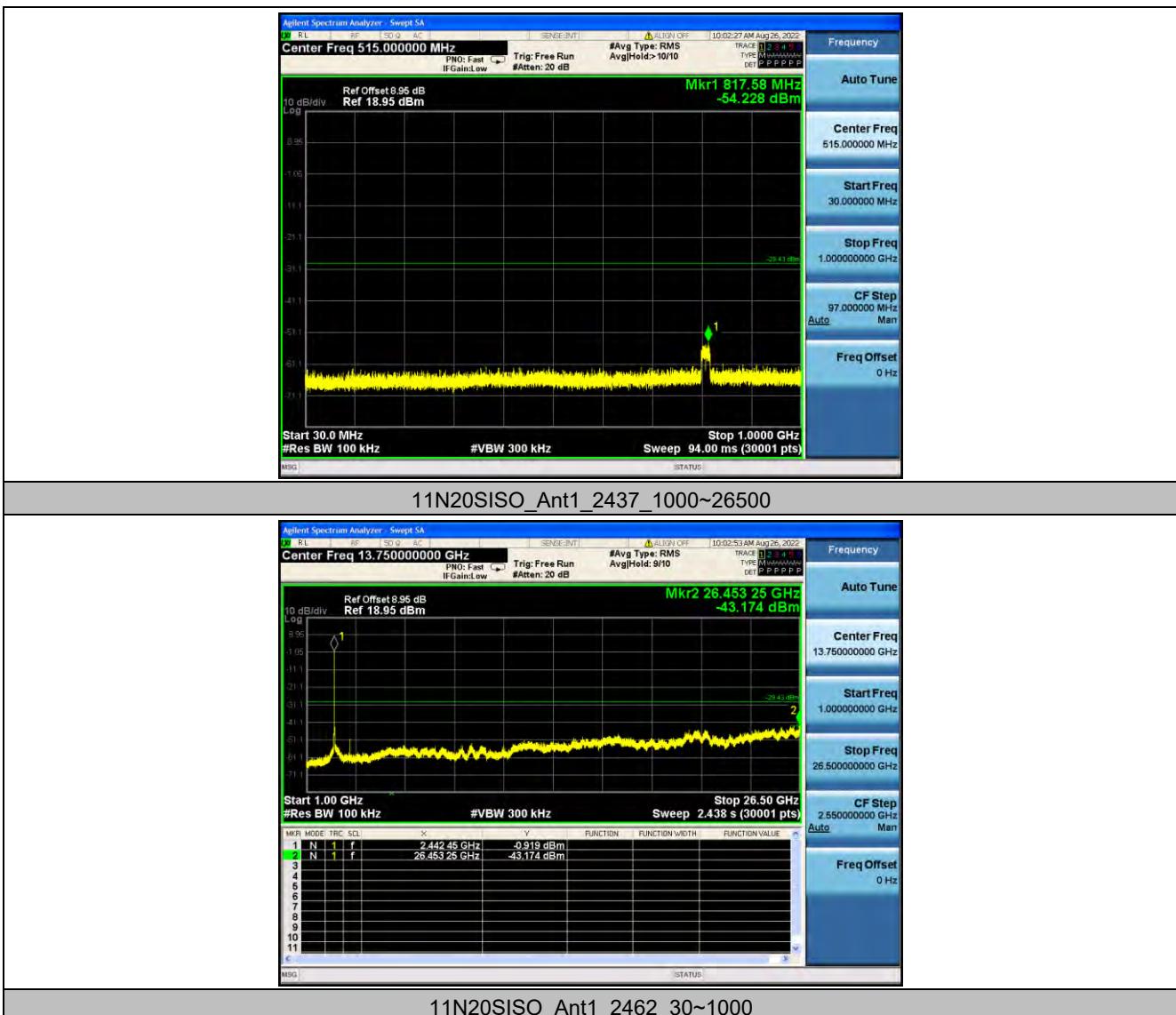
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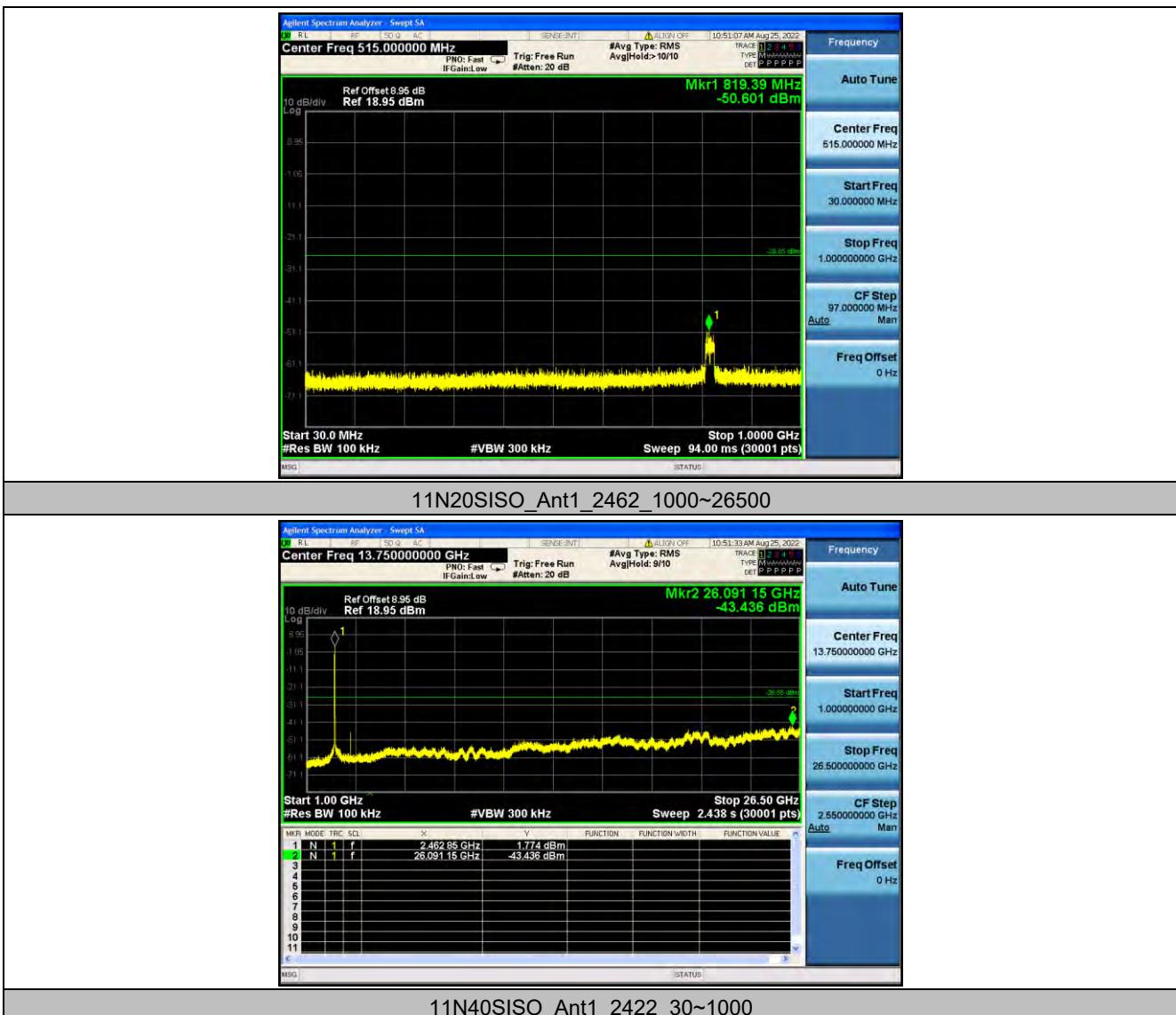


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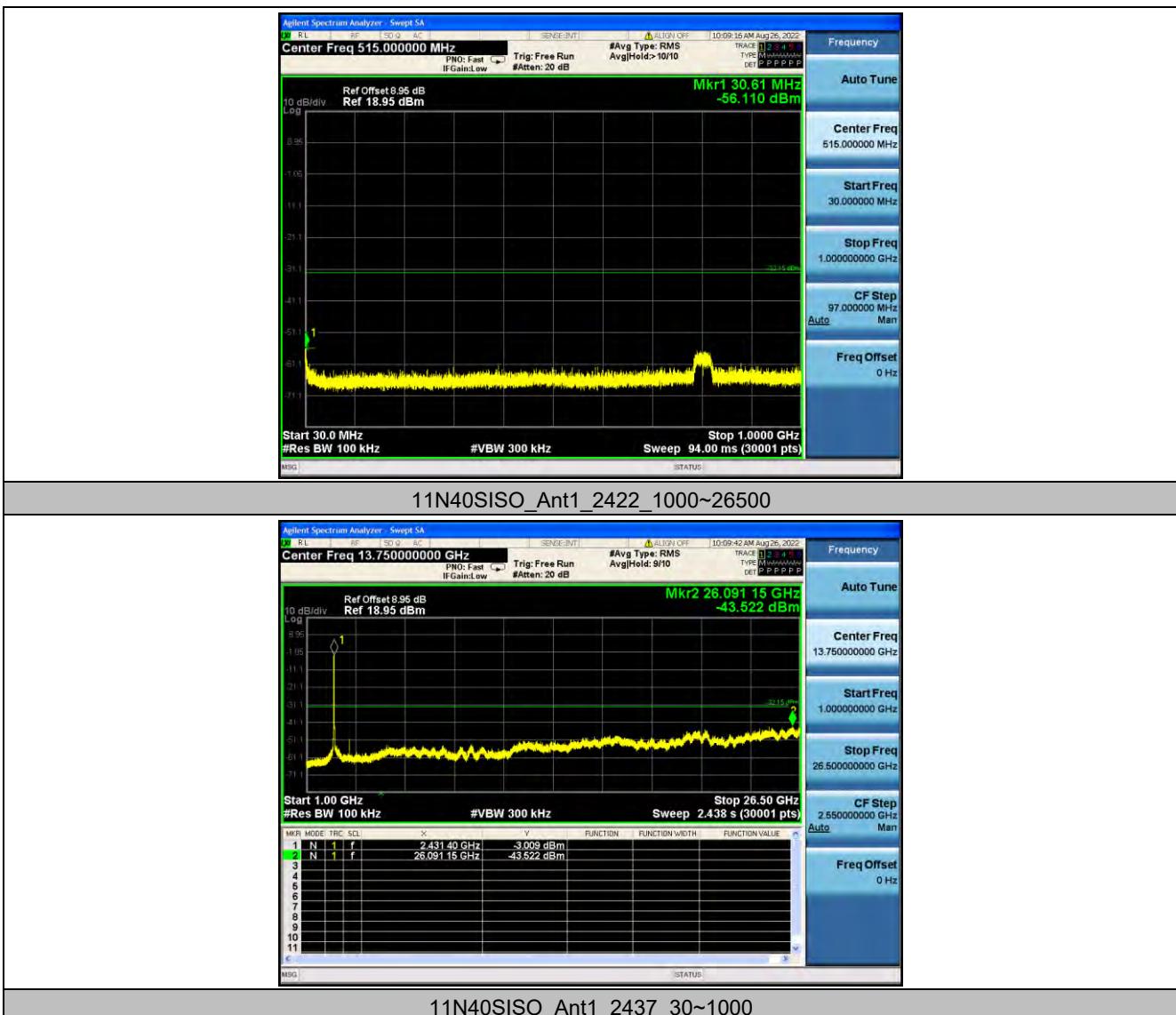
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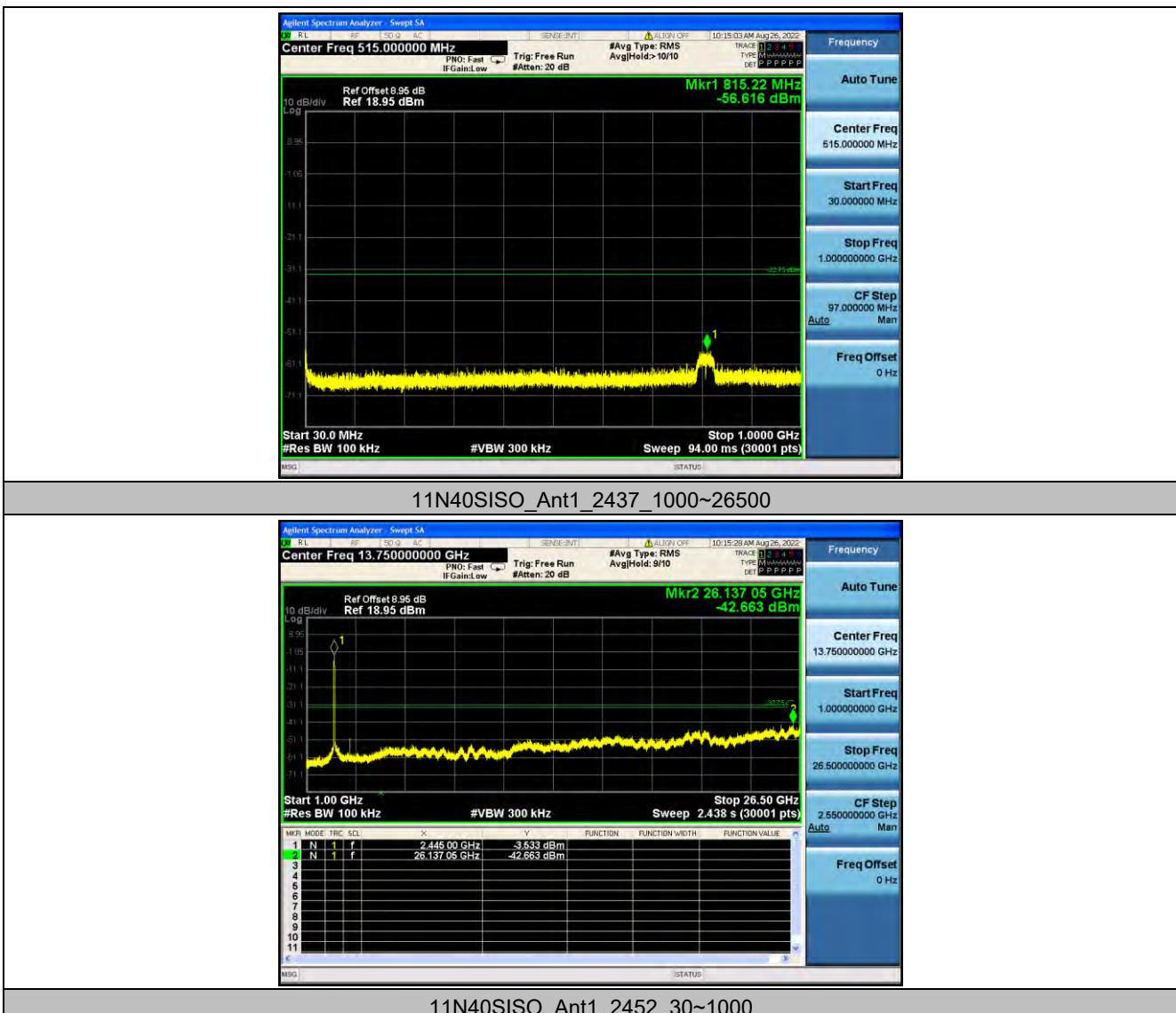
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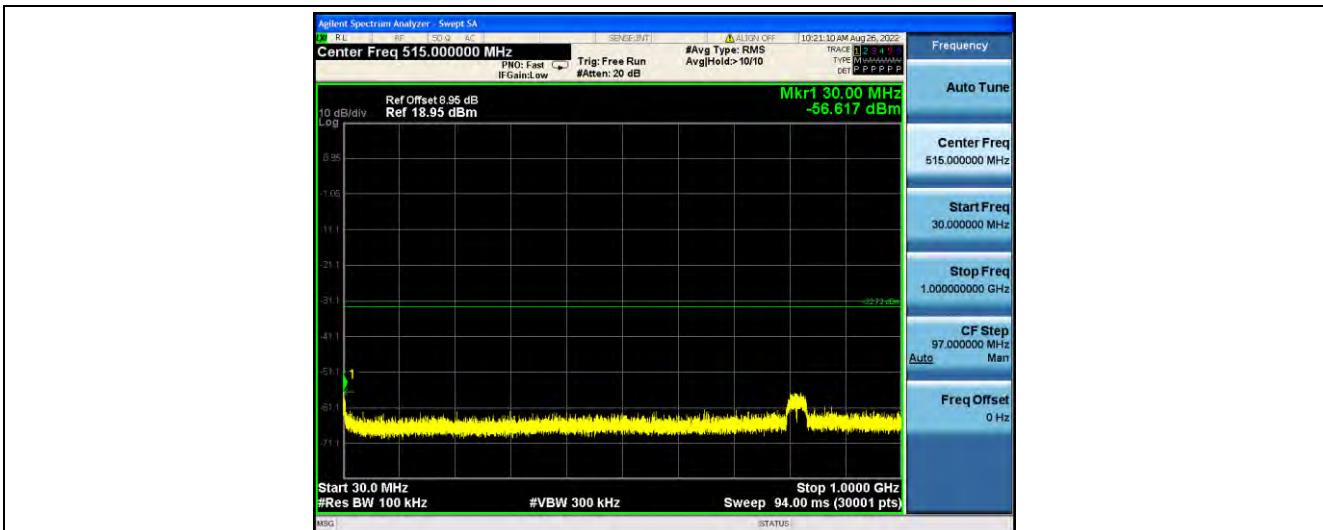


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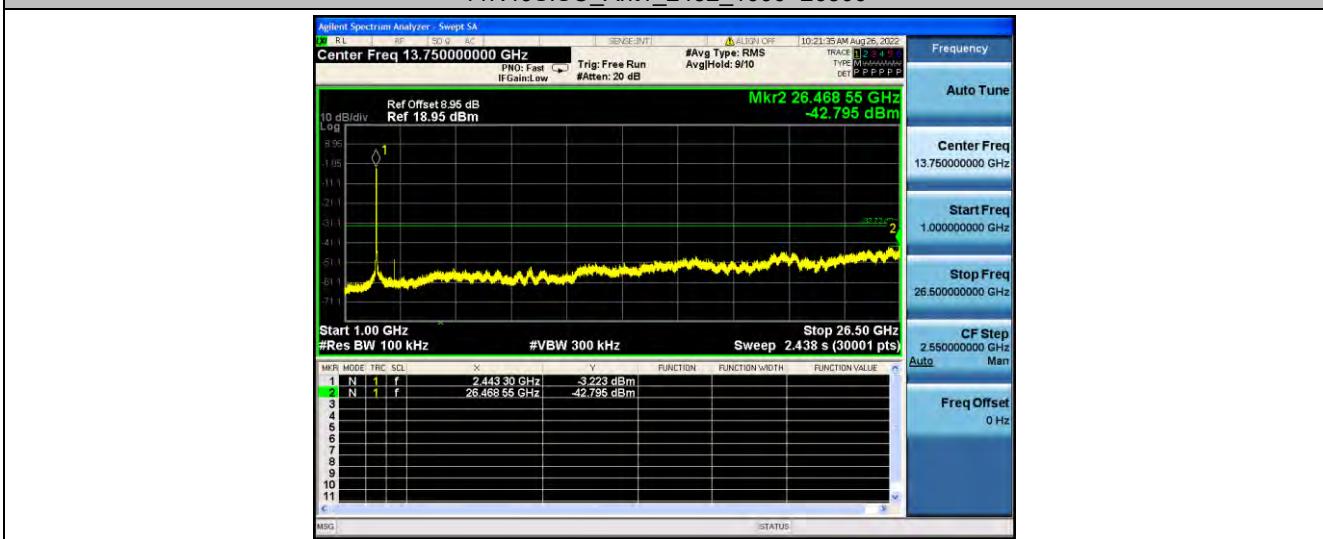
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