

TEST REPORT

Application No.: KSCR2210001929AT
FCC ID: 2AOK9-A810
IC: 28033-A810
Applicant: 70mai Co., Ltd.
Address of Applicant: Room 2220, Building 2, No.588, Zixing Road, Minhang District, Shanghai, China
Manufacturer: 70mai Co., Ltd.
Address of Manufacturer: Room 2220, Building 2, No.588, Zixing Road, Minhang District, Shanghai, China

Equipment Under Test (EUT):

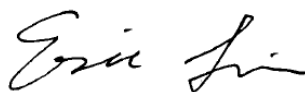
EUT Name: Dash Cam
Model No.: A810; A810-2□
 □ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

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

Date of Receipt: 2022-10-13
Date of Test: 2022-10-14 to 2022-11-15
Date of Issue: 2022-11-17

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Eric Lin
 Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2022-11-17	/

Authorized for issue by:			
		<i>Tommie Tang</i>	

		Tommie_Tang/Project Engineer	
		<i>Eric Lin</i>	

		Eric Lin /Reviewer	



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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

Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result
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
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
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2013) Section 11.10.2	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 Below 1GHz	ANSI C63.10 (2013) Section 6.4,6.5	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass
Radiated Spurious Emissions Above 1GHz	ANSI C63.10 (2013) Section 6.6	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 identical in electrical and electronic characters. Only the model A810-2 was tested since their difference was A810-2 has one more rear camera than A810.



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Compliance Certification Services (Kunshan) Inc.

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V,2A
Cable(s):	USB Cable
Car Charger information	Car Charger 1 Supplier: ShenZhen DBK Electronics Co., Ltd Model: Midrive CC01 Input: 12V-24V/1A Output: 5V/2.4A,5V/1A Total Output: 5V/3.4A(MAX)
	Car Charger 2 Supplier: STUFF TECH(DG) INDUSTRIAL CO., LTD Model: Midrive CC01 Input: 12V-24V/1A Output: 5V/2.4A,5V/1A Total Output: 5V/3.4A(MAX)
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11;802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	FPC Antenna
Antenna Gain:	2.85dBi(Provided by the manufacturer)
S/N:	2810B02DL2910001
Firmware Version:	0.0.10ww

4.2 Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)
	Ant 1	Ant 1	Ant 1
1	33	40	40
6	33	40	40
11	33	40	40
Channel	802.11n(HT40)		
	Ant 1		
3	33		
6	33		
9	33		



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4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	Y510P	/
SecureCRT	VanDyke	V 6.2.0	/

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
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:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working 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).

4.6 Test Facility

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

• A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/22/2022	08/21/2023
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/22/2022	08/21/2023
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/22/2022	01/21/2023
4	Signal Generator	R&S	SMW200A	KSEM020-1	08/22/2022	08/21/2023
5	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/22/2022	08/21/2023
6	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/22/2022	08/21/2023
7	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	04/01/2022	03/31/2023
8	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/22/2022	08/21/2023
9	Switcher	CCSRF	FY562	KUS2001M001-3	08/22/2022	08/21/2023
10	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
11	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	01/16/2022	01/15/2023
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	04/01/2021	03/31/2023
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	04/14/2022	04/13/2023
15	Software	BST	TST-PASS	/	N/A	N/A
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023
3	Signal Generator	Agilent	E8257C	KS301066	08/22/2022	08/21/2023
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023
6	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	04/02/2022	04/01/2024
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021	02/21/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/17/2022	03/16/2023
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/22/2022	01/21/2023
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/13/2022	11/12/2023
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	31/03/2023
14	Software	Faratronic	EZ_EMV-3A1	/	N/A	N/A



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is FPC Antenna and no consideration of replacement. The best case gain of the antenna is 2.85dBi.

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: 24.4 °C Humidity: 48.0 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(Charged by Car Charger 1)_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.

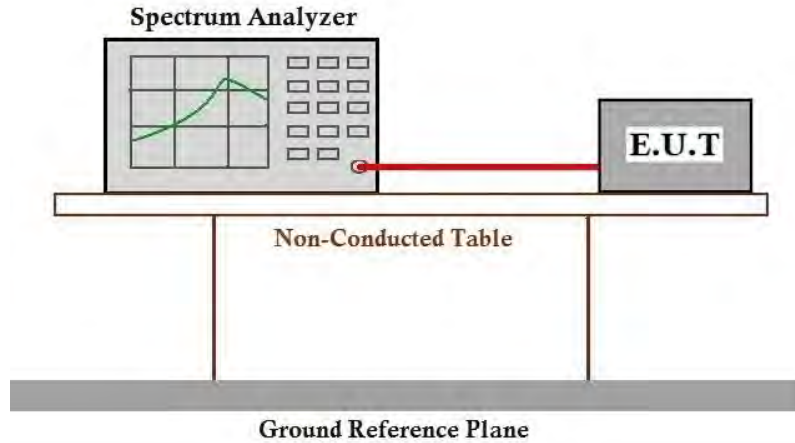


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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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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

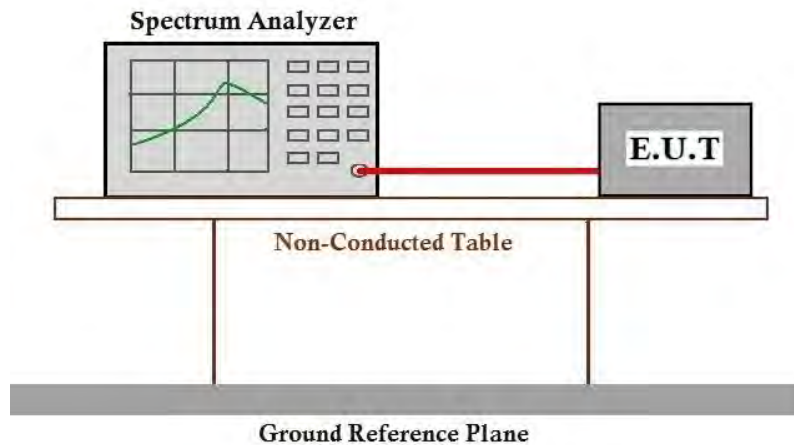
Operating Environment:

Temperature: 24.3 °C Humidity: 47.9 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(Charged by Car Charger 1)_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

Please Refer to Appendix for Details



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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 11.10.2

Limit:

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

7.3.1 E.U.T. Operation

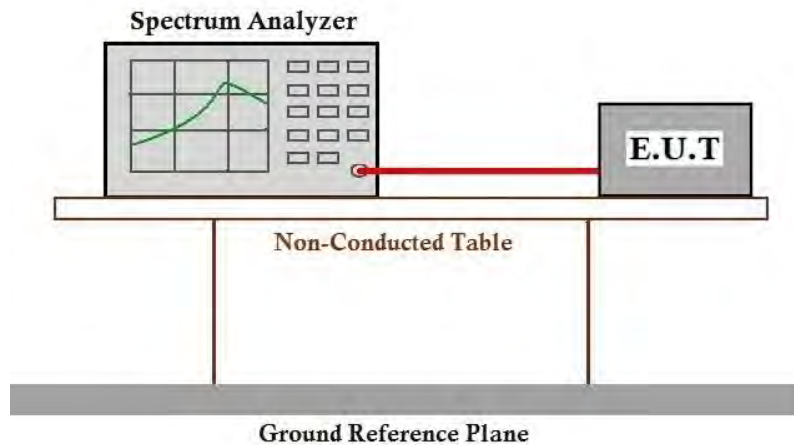
Operating Environment:

Temperature: 24.3 °C Humidity: 47.9 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(Charged by Car Charger 1)_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

Please Refer to Appendix for Details



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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: 24.3 °C Humidity: 47.9 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(Charged by Car Charger 1)_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.

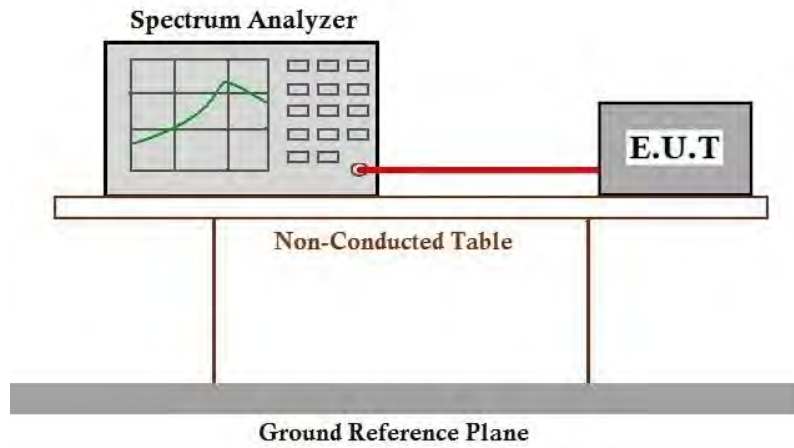


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7.4.3 Test Setup Diagram



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: 24.3 °C Humidity: 47.9 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

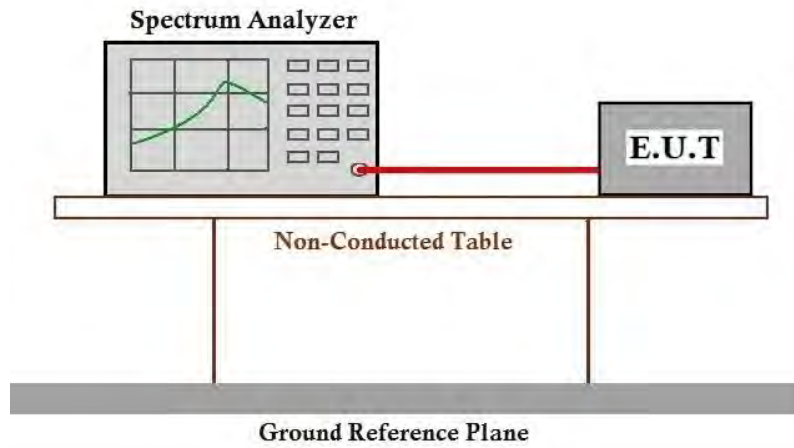
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(Charged by Car Charger 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 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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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: 23.9 °C

Humidity: 50.1 % RH

Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(Charged by Car Charger 1)_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.
Pre-scan	02	TX mode(Charged by Car Charger 2)_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

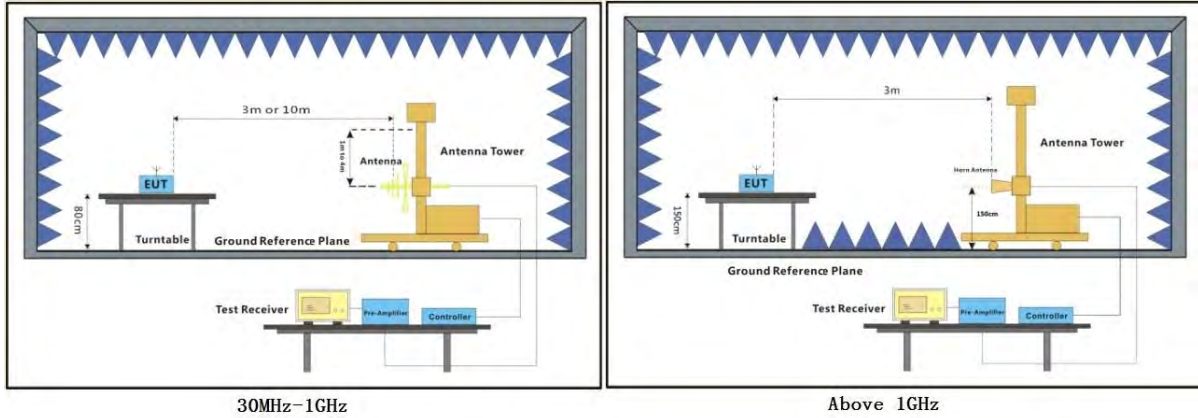


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		rates. Only the data of worst case is recorded in the report.
--	--	---

7.6.3 Test Setup Diagram



30MHz-1GHz

Above 1GHz



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7.6.4 Measurement Procedure and Data

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

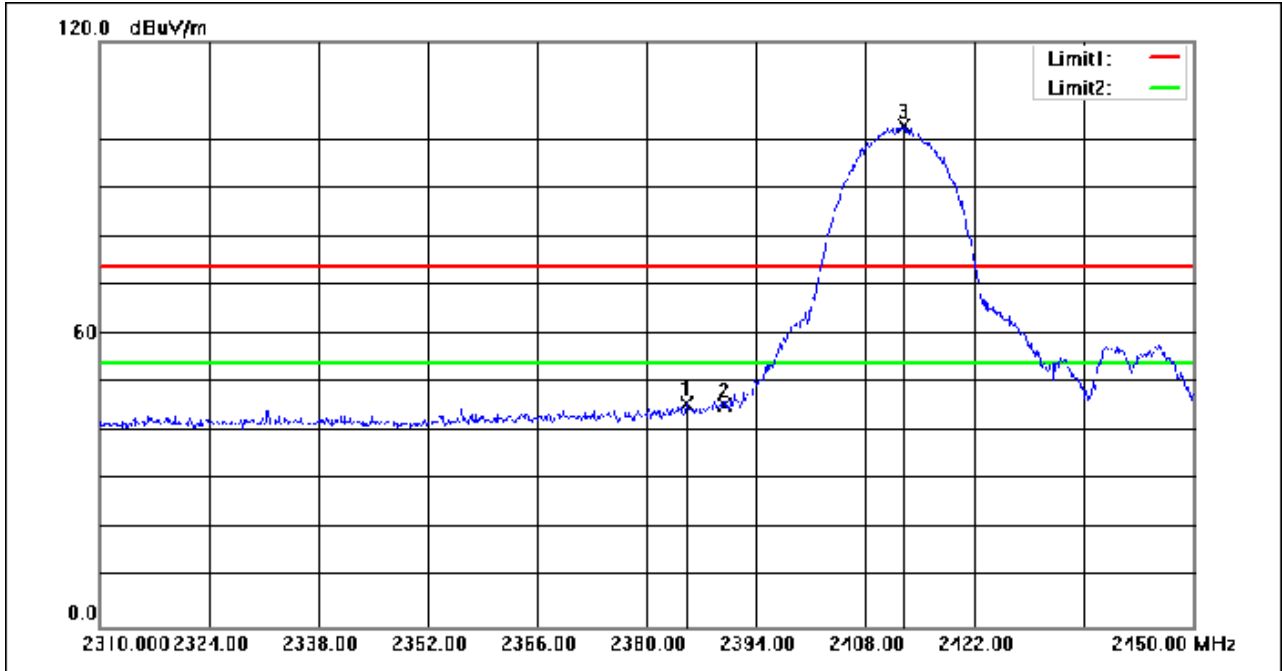
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.180	64.60	-18.76	45.84	74.00	-28.16	peak
2	2390.000	64.33	-18.75	45.58	74.00	-28.42	peak
3	2412.900	121.41	-18.70	102.71	74.00	28.71	peak

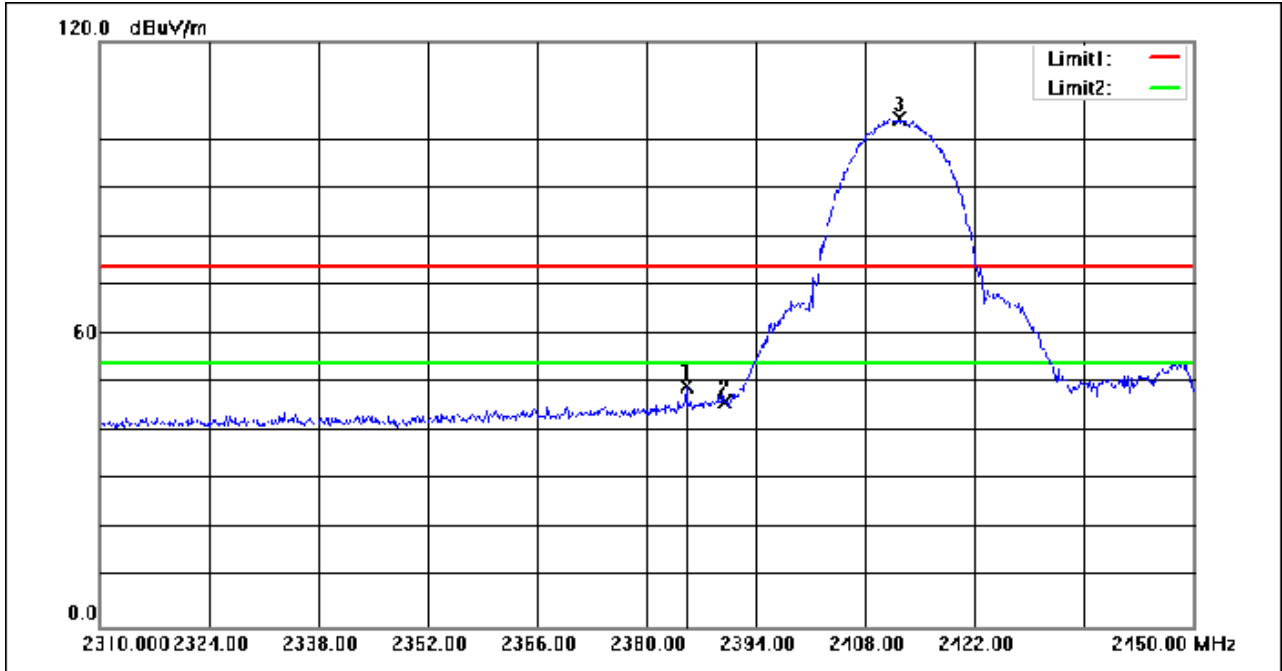


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.040	68.18	-18.76	49.42	74.00	-24.58	peak
2	2390.000	64.73	-18.75	45.98	74.00	-28.02	peak
3	2412.340	122.99	-18.71	104.28	74.00	30.28	peak

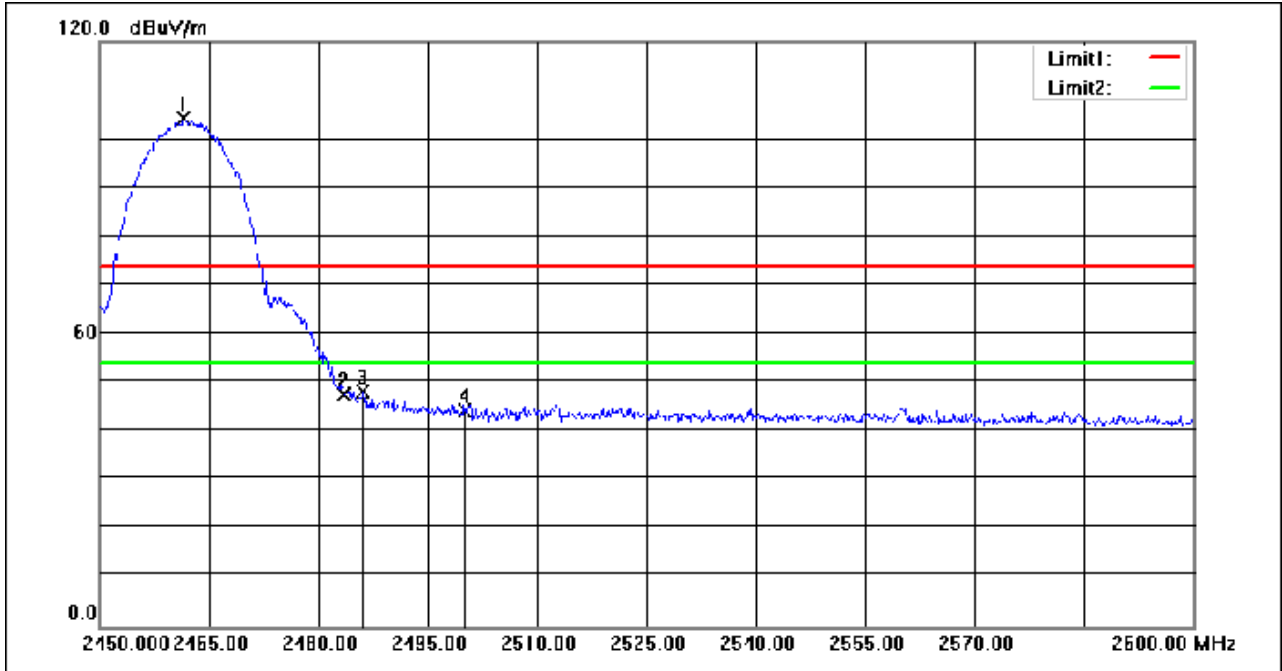


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.400	122.89	-18.53	104.36	74.00	30.36	peak
2	2483.500	66.14	-18.45	47.69	74.00	-26.31	peak
3	2486.150	66.66	-18.44	48.22	74.00	-25.78	peak
4	2500.000	62.62	-18.38	44.24	74.00	-29.76	peak



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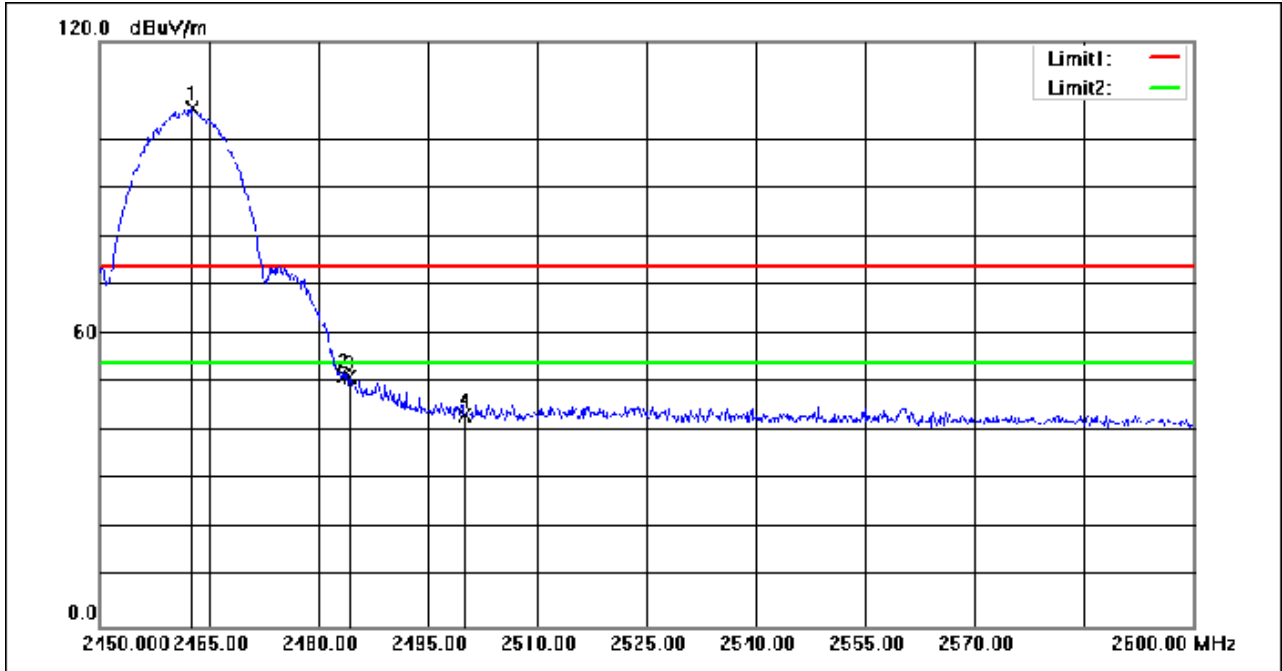
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Report No.: KSCR221000192902

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.600	124.99	-18.52	106.47	74.00	32.47	peak
2	2483.500	69.95	-18.45	51.50	74.00	-22.50	peak
3	2484.350	69.56	-18.44	51.12	74.00	-22.88	peak
4	2500.000	61.75	-18.38	43.37	74.00	-30.63	peak



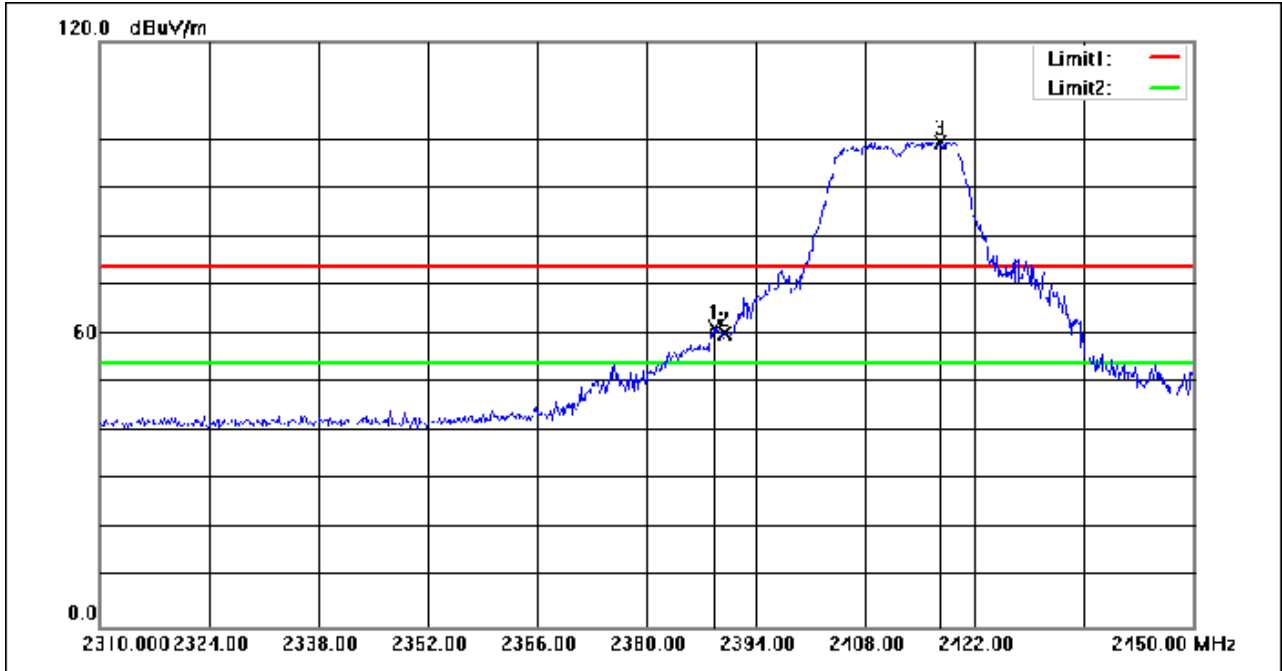
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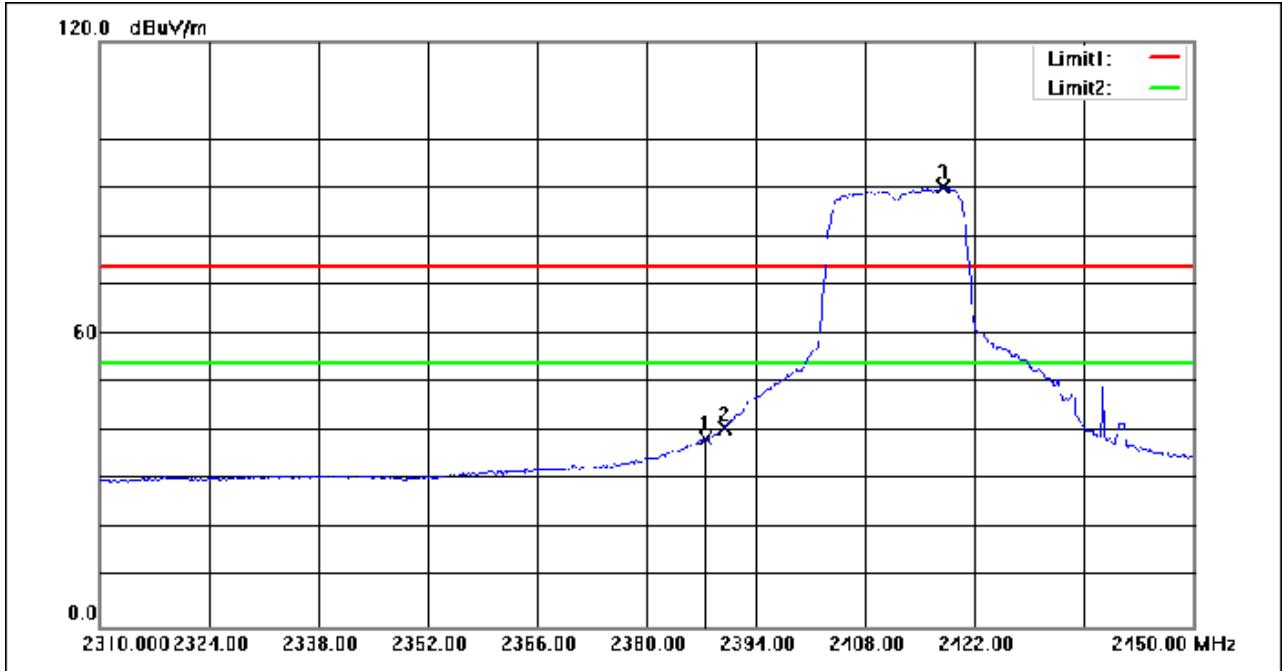
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.680	80.06	-18.75	61.31	74.00	-12.69	peak
2	2390.000	78.84	-18.75	60.09	74.00	-13.91	peak
3	2417.660	118.24	-18.68	99.56	74.00	25.56	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.560	57.37	-18.76	38.61	54.00	-15.39	AVG
2	2390.000	59.46	-18.75	40.71	54.00	-13.29	AVG
3	2417.940	108.83	-18.68	90.15	54.00	36.15	AVG

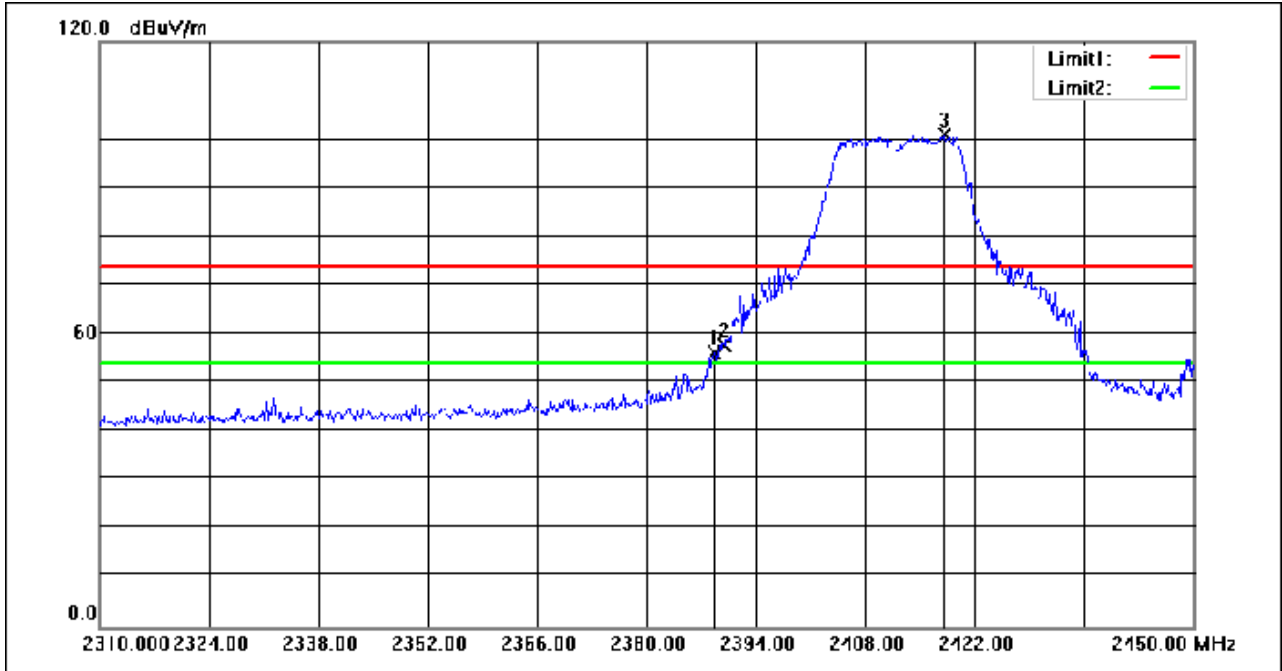


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.680	74.89	-18.75	56.14	74.00	-17.86	peak
2	2390.000	76.39	-18.75	57.64	74.00	-16.36	peak
3	2418.080	119.56	-18.68	100.88	74.00	26.88	peak

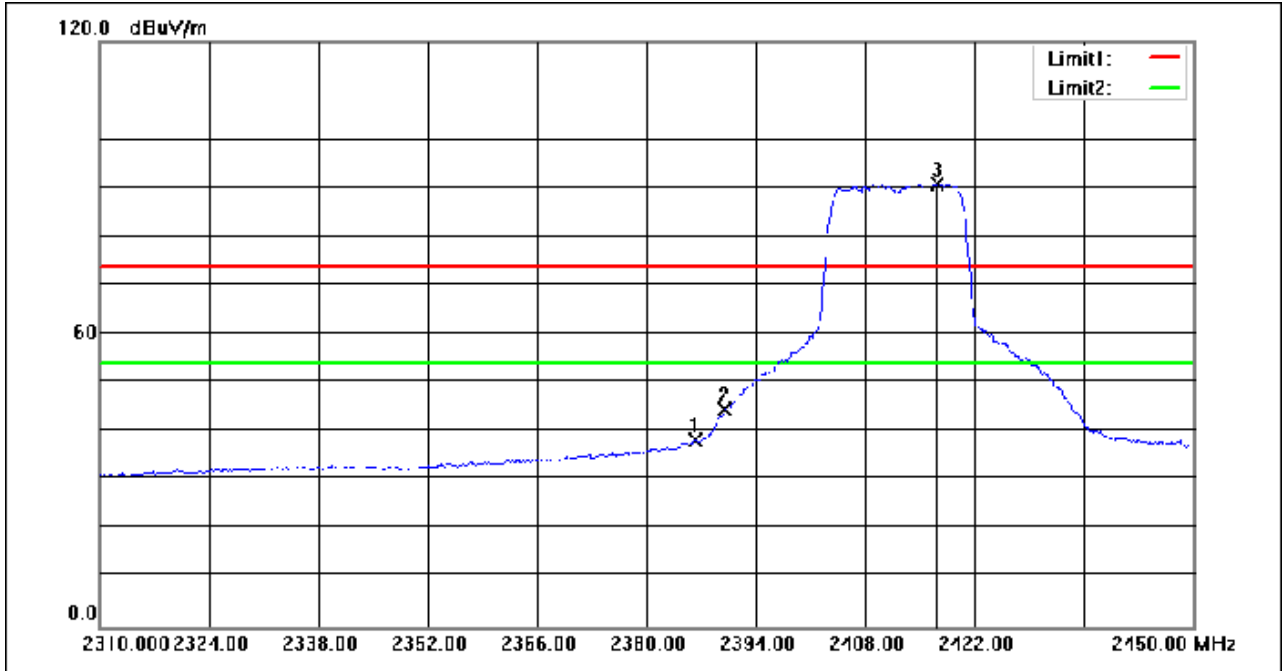


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.160	57.09	-18.76	38.33	54.00	-15.67	AVG
2	2390.000	63.20	-18.75	44.45	54.00	-9.55	AVG
3	2417.240	109.53	-18.69	90.84	54.00	36.84	AVG



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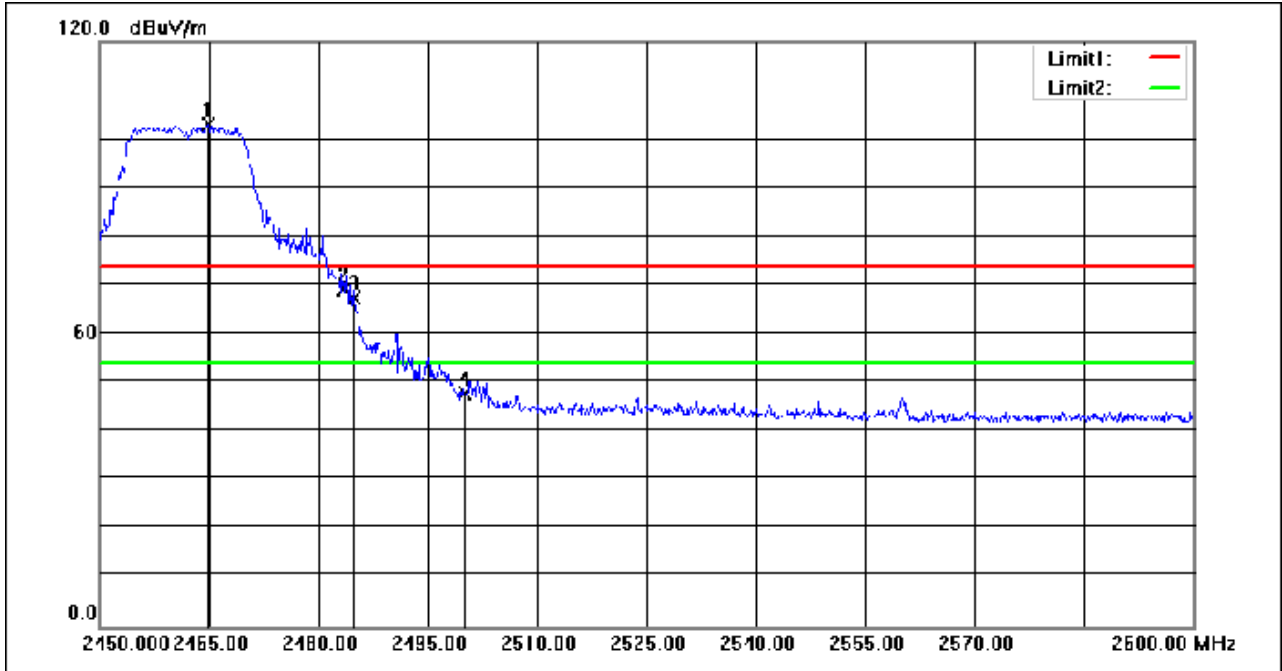
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Report No.: KSCR221000192902

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2464.850	121.57	-18.51	103.06	74.00	29.06	peak
2	2483.500	87.51	-18.45	69.06	74.00	-4.94	peak
3	2484.950	85.91	-18.44	67.47	74.00	-6.53	peak
4	2500.000	66.28	-18.38	47.90	74.00	-26.10	peak



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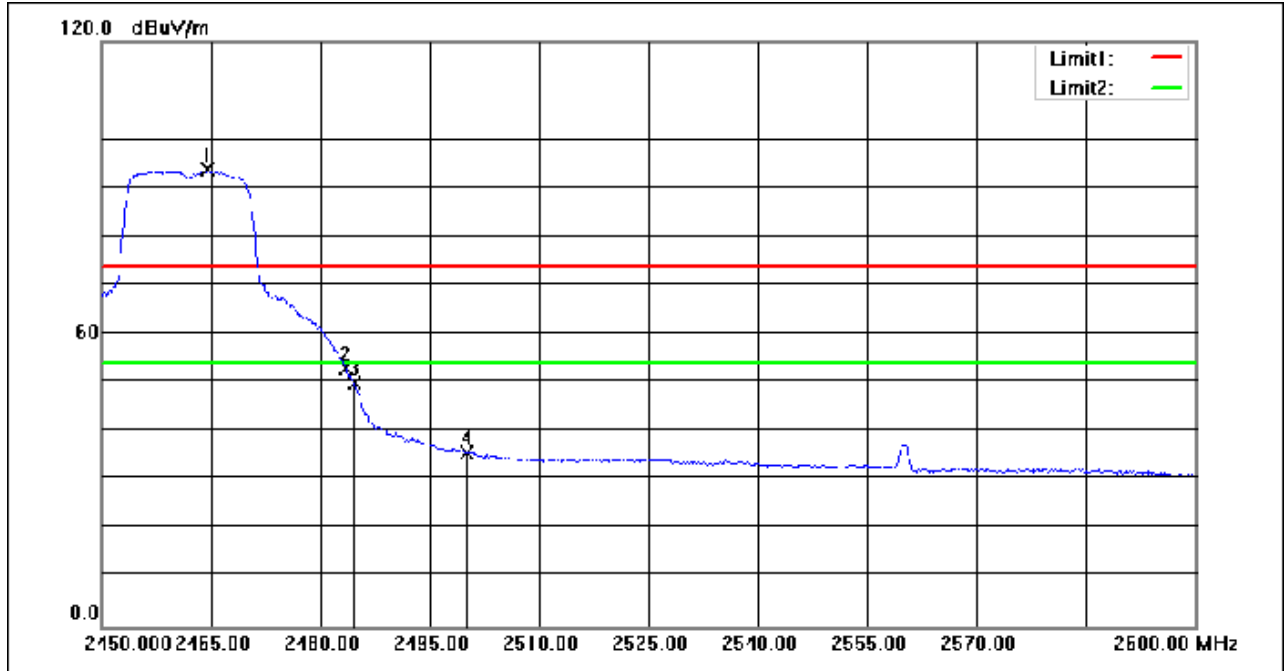
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000192902

Page: 31 of 133

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2464.550	112.22	-18.52	93.70	54.00	39.70	AVG
2	2483.500	71.28	-18.45	52.83	54.00	-1.17	AVG
3	2484.650	68.35	-18.44	49.91	54.00	-4.09	AVG
4	2500.000	53.95	-18.38	35.57	54.00	-18.43	AVG

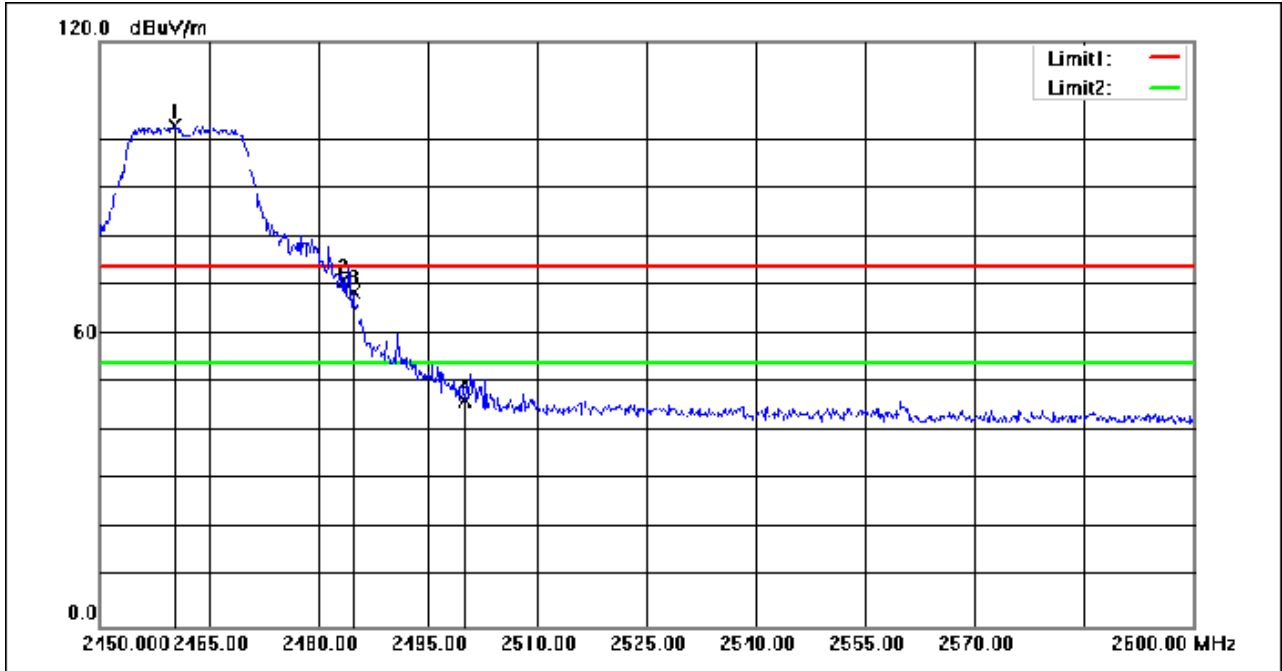


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.350	121.39	-18.53	102.86	74.00	28.86	peak
2	2483.500	89.49	-18.45	71.04	74.00	-2.96	peak
3	2484.800	87.08	-18.44	68.64	74.00	-5.36	peak
4	2500.000	64.63	-18.38	46.25	74.00	-27.75	peak

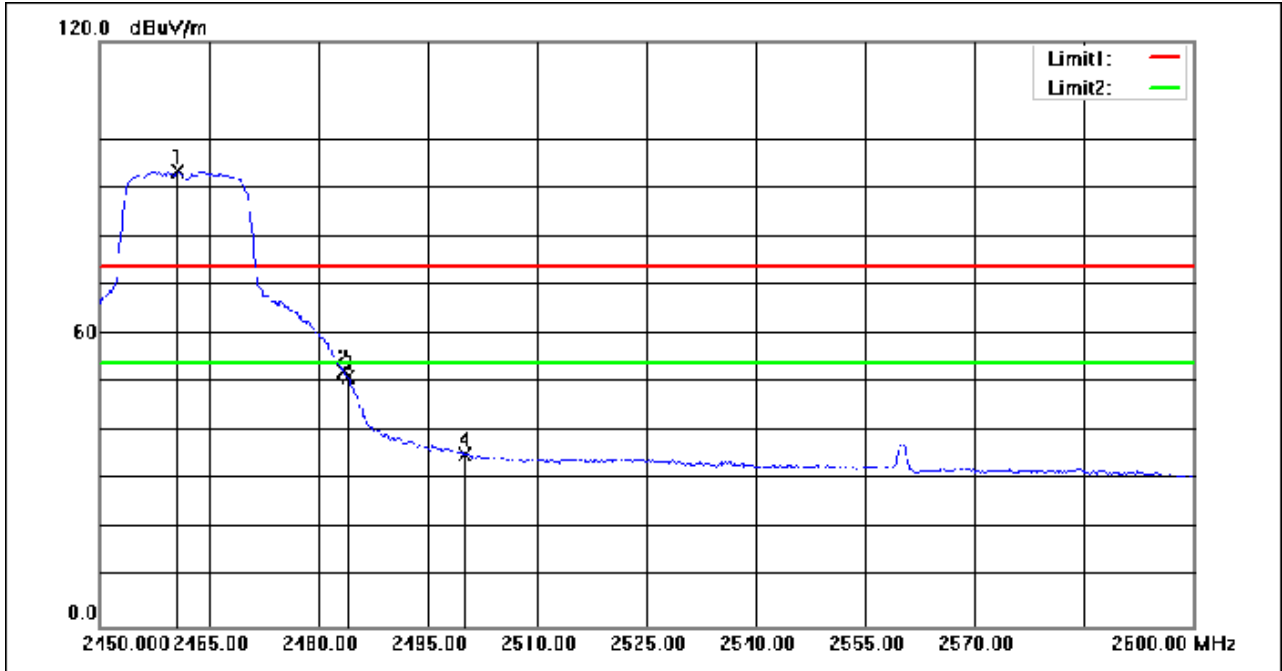


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



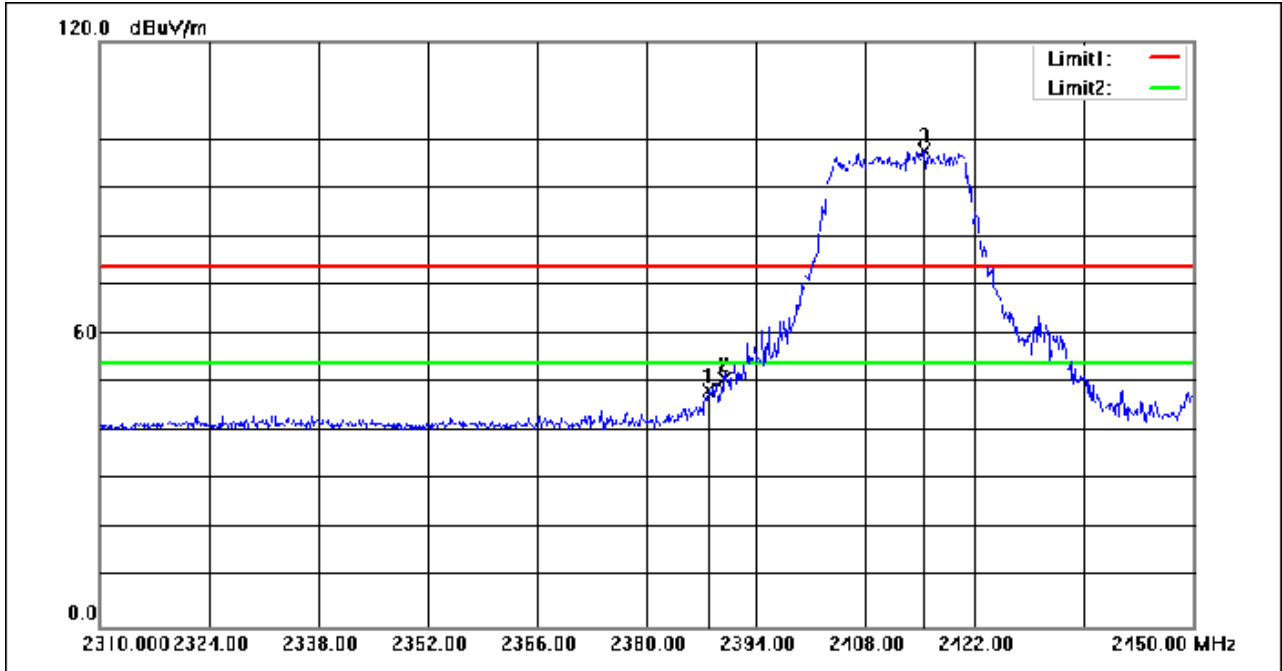
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.650	111.88	-18.53	93.35	54.00	39.35	AVG
2	2483.500	70.81	-18.45	52.36	54.00	-1.64	AVG
3	2484.050	69.70	-18.44	51.26	54.00	-2.74	AVG
4	2500.000	53.73	-18.38	35.35	54.00	-18.65	AVG



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.980	67.15	-18.76	48.39	74.00	-25.61	peak
2	2390.000	69.64	-18.75	50.89	74.00	-23.11	peak
3	2415.560	116.31	-18.70	97.61	74.00	23.61	peak

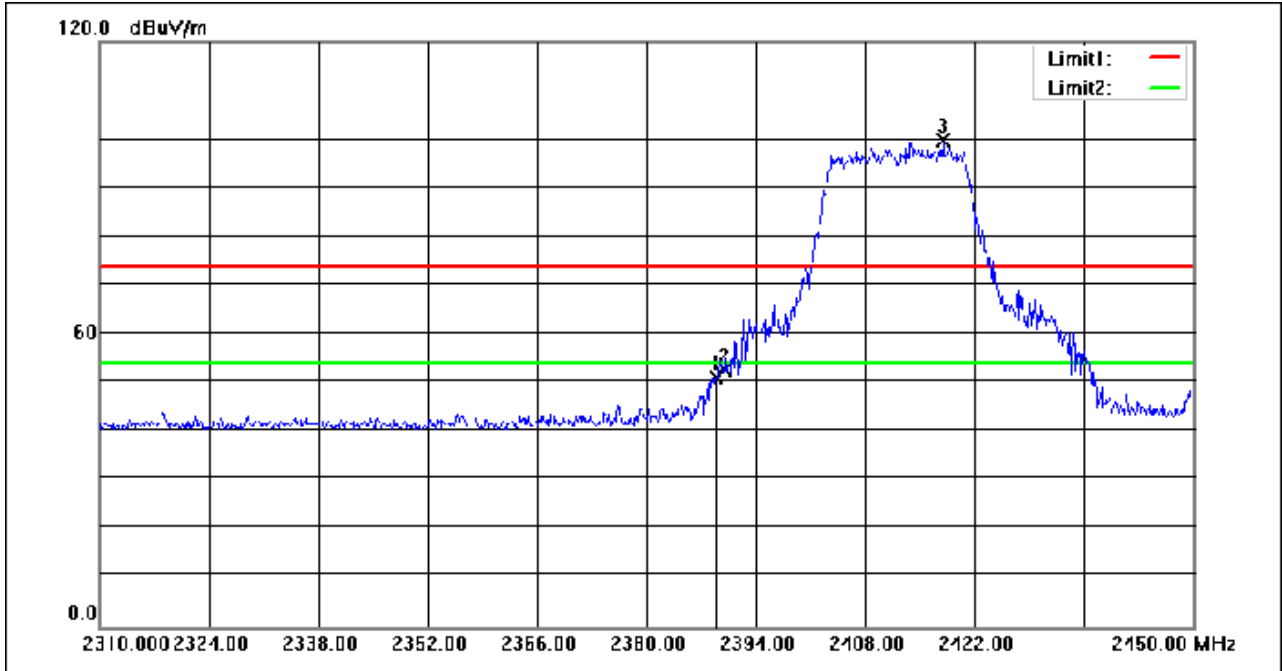


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.820	69.98	-18.75	51.23	74.00	-22.77	peak
2	2390.000	71.40	-18.75	52.65	74.00	-21.35	peak
3	2417.940	118.32	-18.68	99.64	74.00	25.64	peak

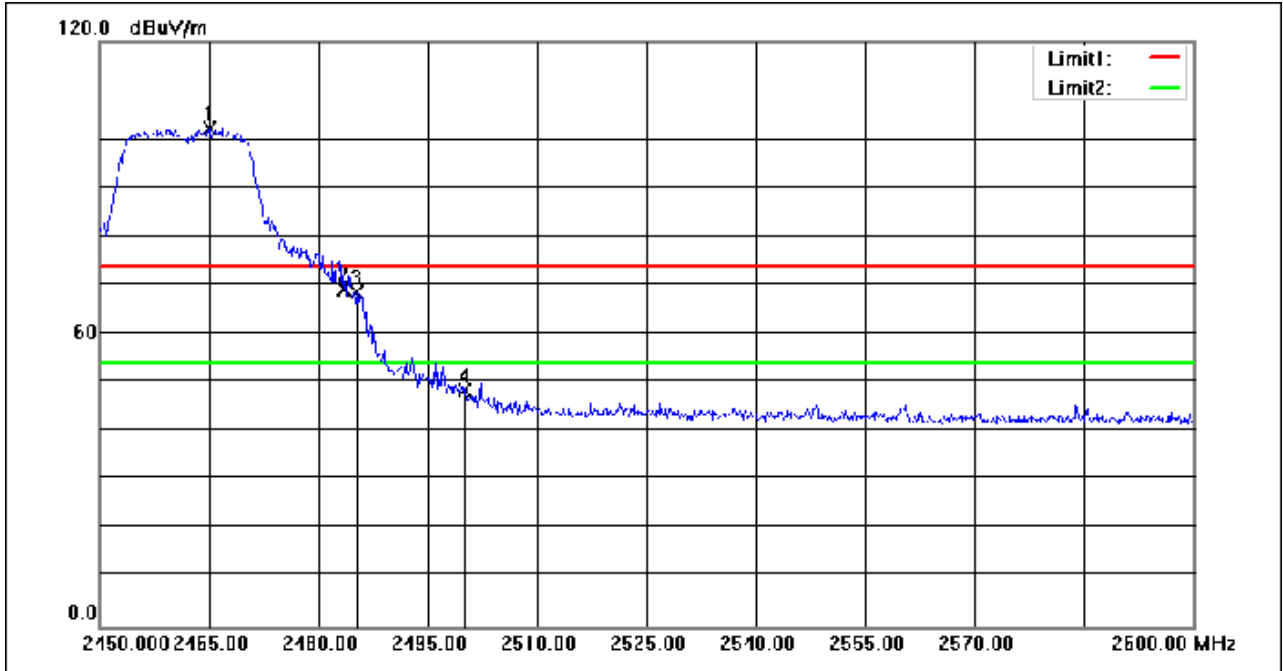


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2465.000	120.67	-18.51	102.16	74.00	28.16	peak
2	2483.500	87.49	-18.45	69.04	74.00	-4.96	peak
3	2485.250	87.07	-18.44	68.63	74.00	-5.37	peak
4	2500.000	66.92	-18.38	48.54	74.00	-25.46	peak



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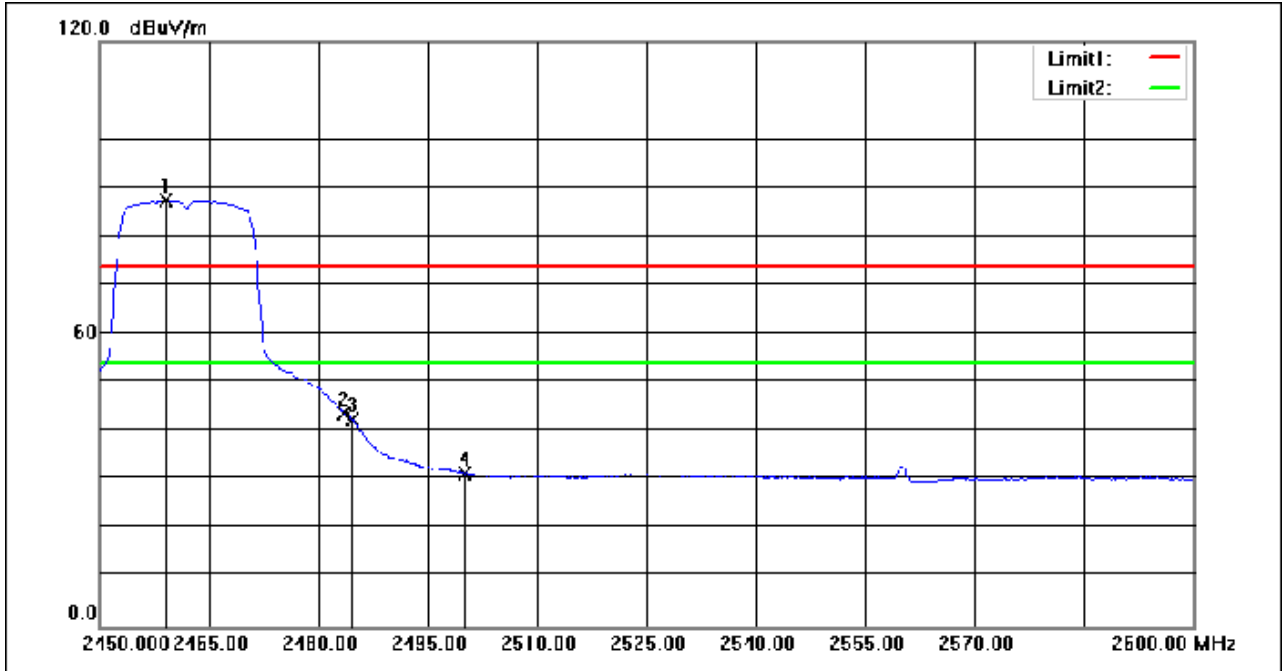
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000192902

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



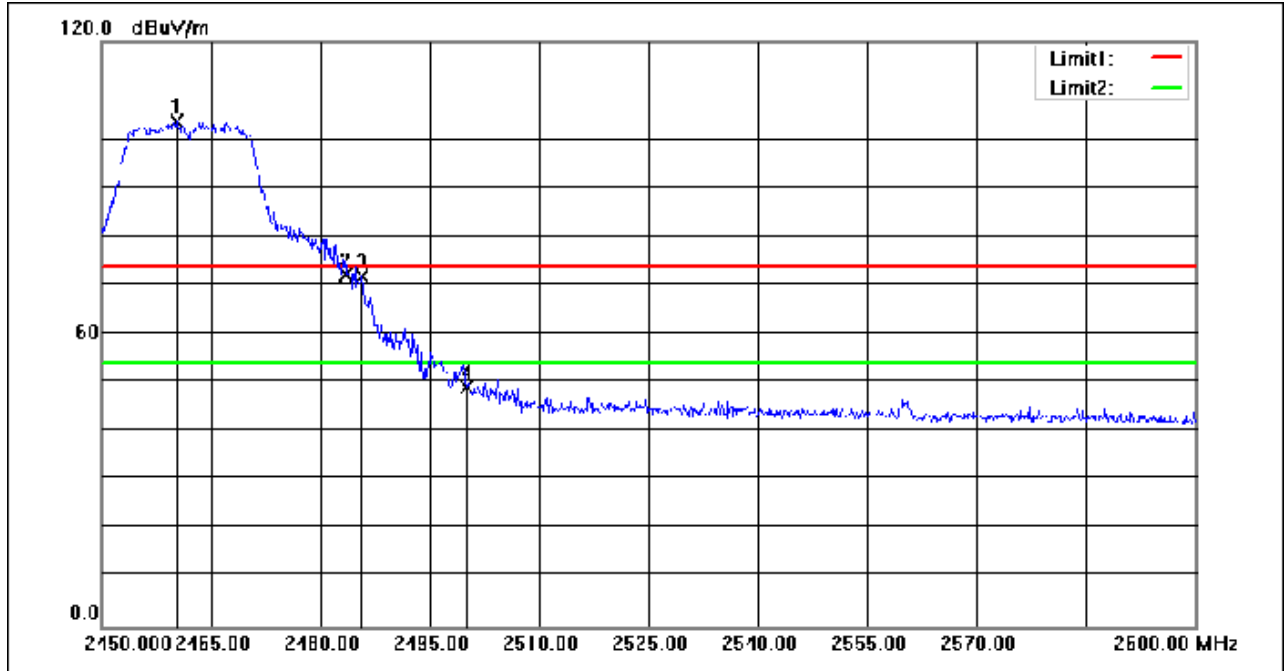
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2459.000	106.00	-18.53	87.47	54.00	33.47	AVG
2	2483.500	62.15	-18.45	43.70	54.00	-10.30	AVG
3	2484.650	60.95	-18.44	42.51	54.00	-11.49	AVG
4	2500.000	49.85	-18.38	31.47	54.00	-22.53	AVG



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.200	122.06	-18.53	103.53	74.00	29.53	peak
2	2483.500	90.58	-18.45	72.13	74.00	-1.87	peak
3	2485.700	90.43	-18.44	71.99	74.00	-2.01	peak
4	2500.000	67.30	-18.38	48.92	74.00	-25.08	peak

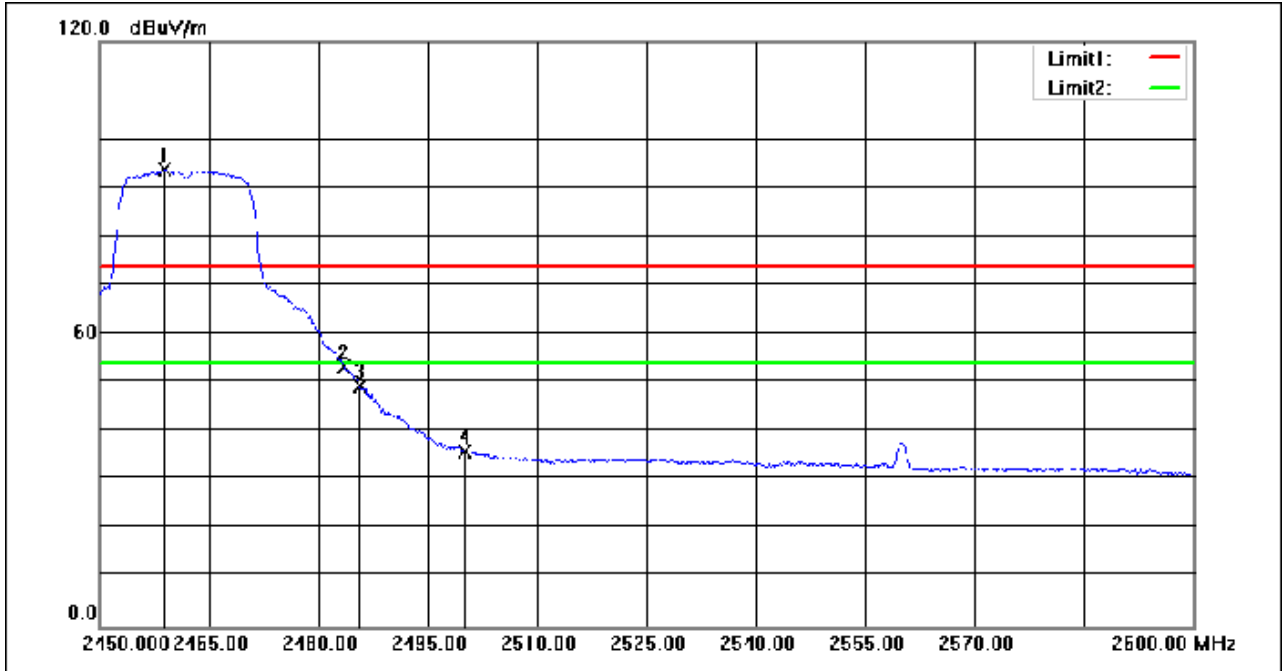


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2458.850	112.18	-18.54	93.64	54.00	39.64	AVG
2	2483.500	71.70	-18.45	53.25	54.00	-0.75	AVG
3	2485.700	67.93	-18.44	49.49	54.00	-4.51	AVG
4	2500.000	54.19	-18.38	35.81	54.00	-18.19	AVG

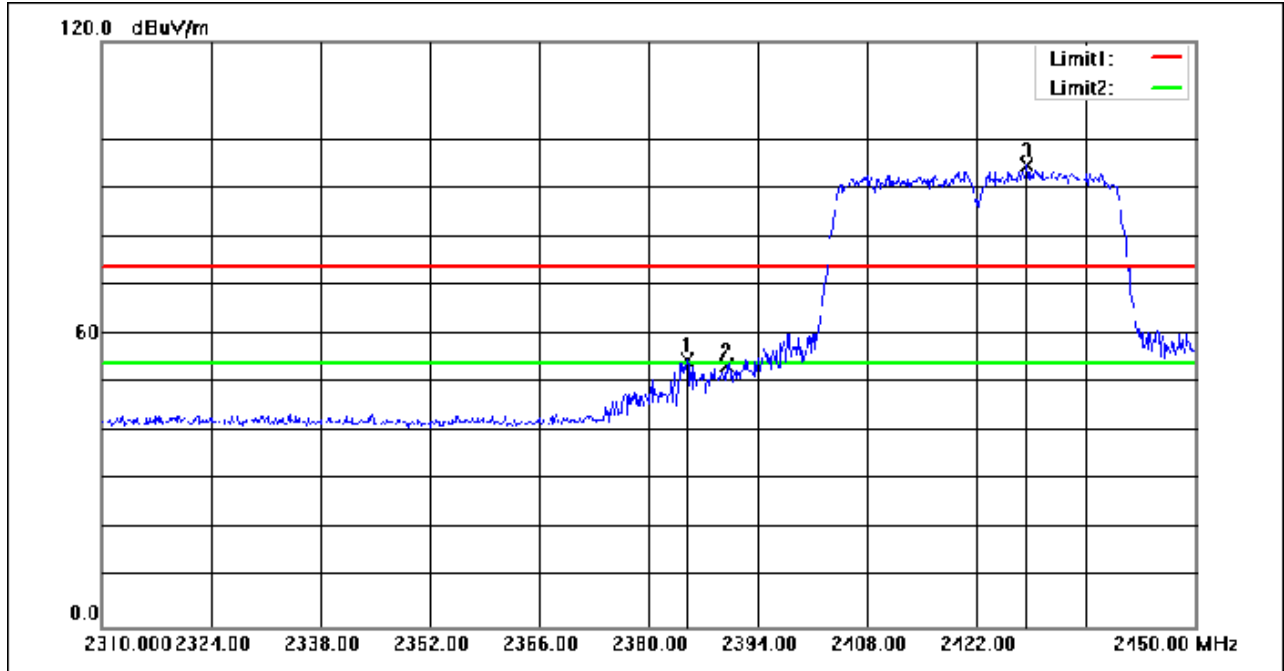


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



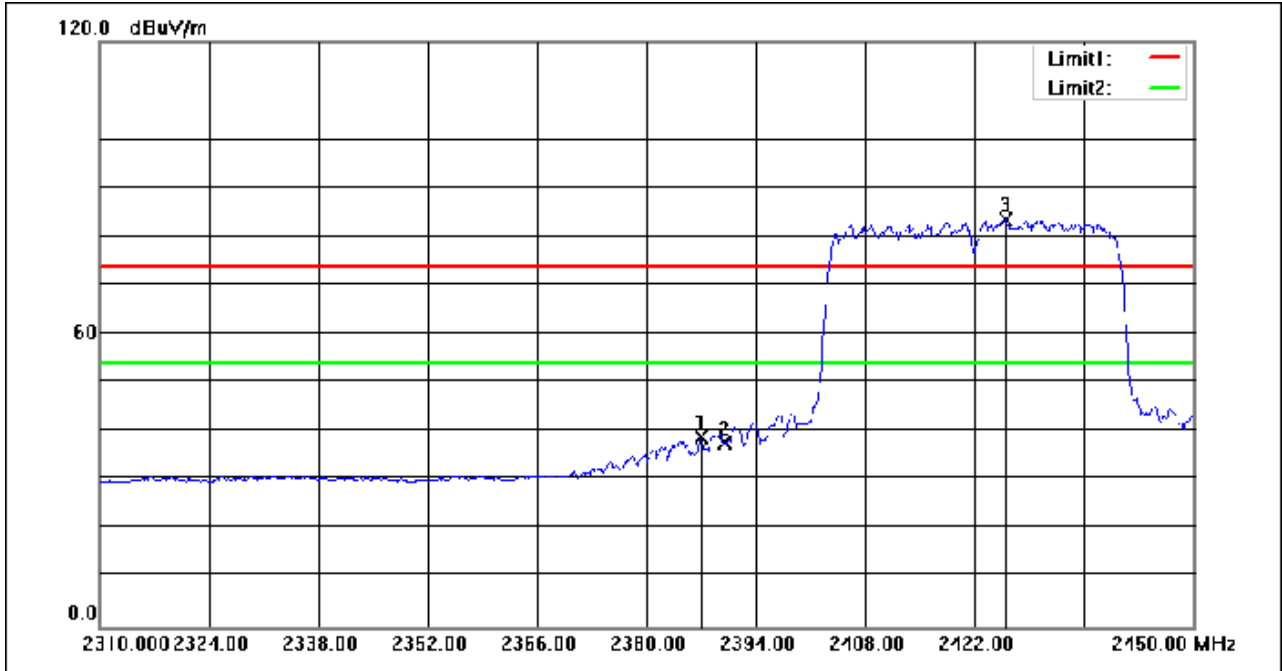
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.900	73.46	-18.76	54.70	74.00	-19.30	peak
2	2390.000	72.24	-18.75	53.49	74.00	-20.51	peak
3	2428.440	113.29	-18.65	94.64	74.00	20.64	peak



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.000	57.60	-18.76	38.84	54.00	-15.16	AVG
2	2390.000	56.30	-18.75	37.55	54.00	-16.45	AVG
3	2426.060	102.15	-18.66	83.49	54.00	29.49	AVG

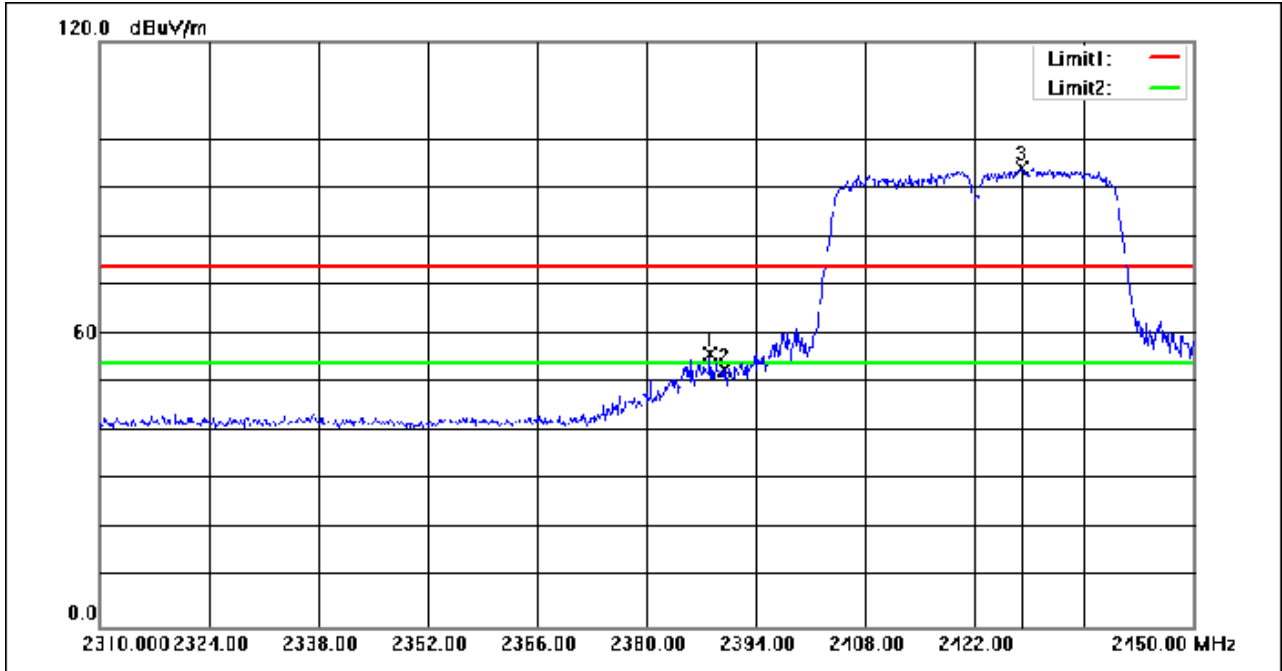


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.120	74.62	-18.75	55.87	74.00	-18.13	peak
2	2390.000	71.37	-18.75	52.62	74.00	-21.38	peak
3	2428.020	112.83	-18.65	94.18	74.00	20.18	peak

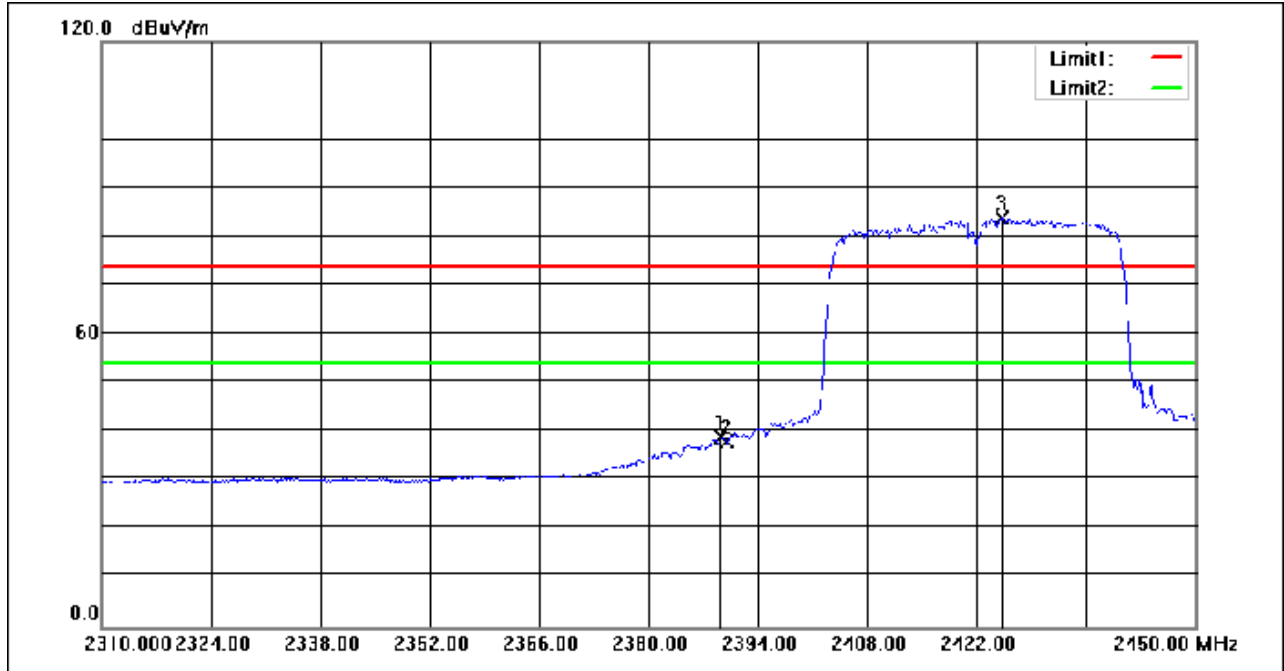


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.240	57.60	-18.75	38.85	54.00	-15.15	AVG
2	2390.000	56.57	-18.75	37.82	54.00	-16.18	AVG
3	2425.220	102.37	-18.66	83.71	54.00	29.71	AVG

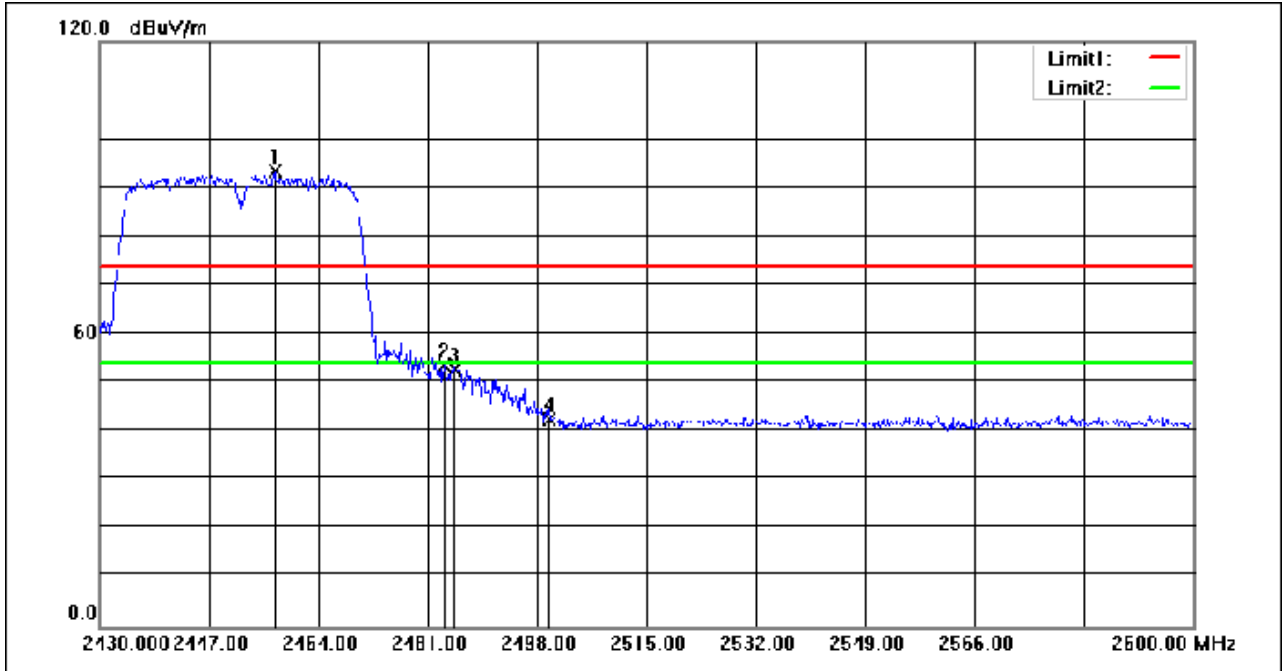


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2457.200	111.96	-18.54	93.42	74.00	19.42	peak
2	2483.500	71.86	-18.45	53.41	74.00	-20.59	peak
3	2485.250	71.21	-18.44	52.77	74.00	-21.23	peak
4	2500.000	60.72	-18.38	42.34	74.00	-31.66	peak

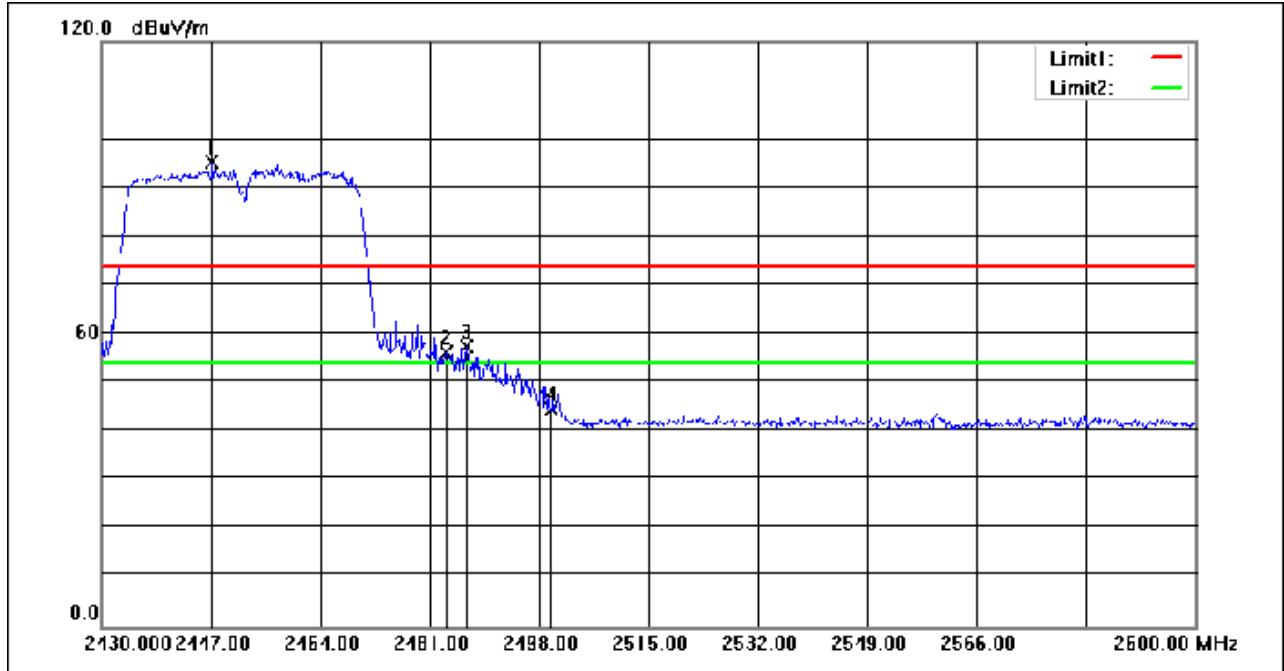


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2447.170	113.96	-18.58	95.38	74.00	21.38	peak
2	2483.500	74.63	-18.45	56.18	74.00	-17.82	peak
3	2486.780	75.93	-18.44	57.49	74.00	-16.51	peak
4	2500.000	63.05	-18.38	44.67	74.00	-29.33	peak

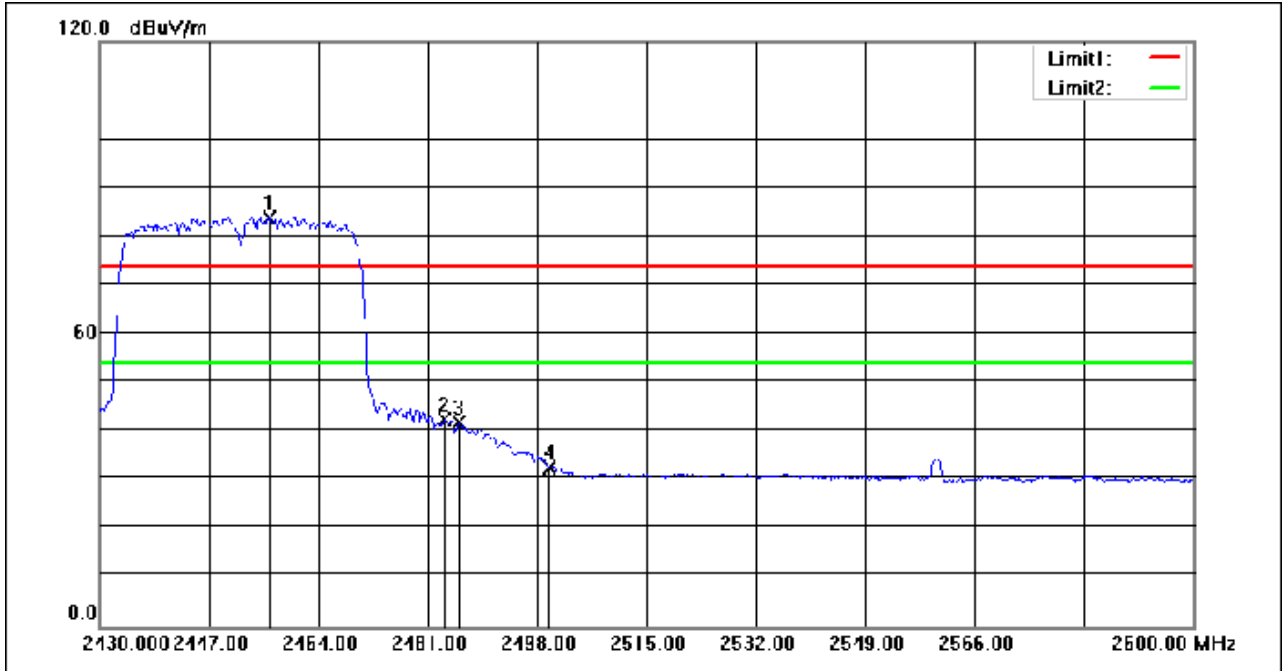


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2456.350	102.51	-18.54	83.97	54.00	29.97	AVG
2	2483.500	60.84	-18.45	42.39	54.00	-11.61	AVG
3	2485.930	60.22	-18.44	41.78	54.00	-12.22	AVG
4	2500.000	51.04	-18.38	32.66	54.00	-21.34	AVG



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000192902

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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: 23.9 °C Humidity: 50.2 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

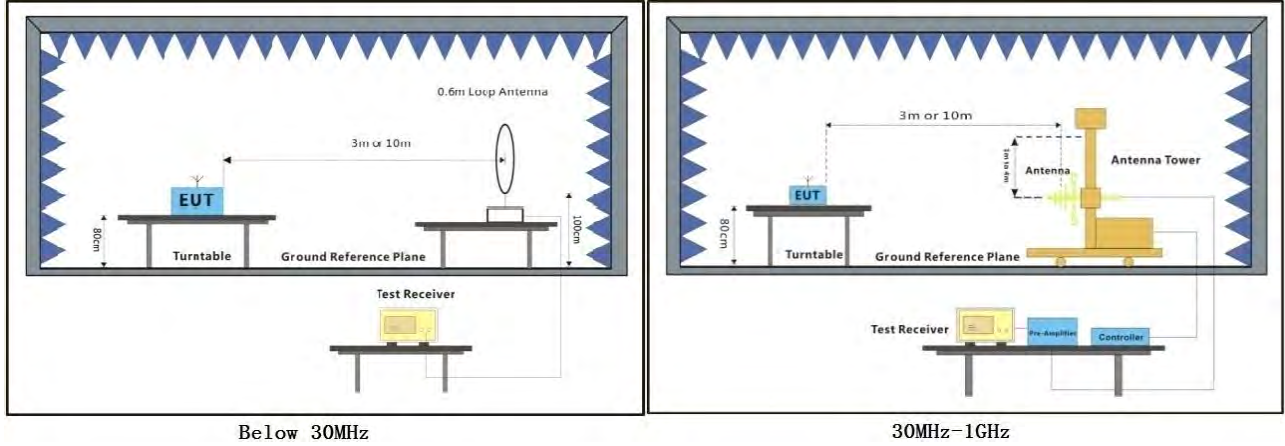
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(Charged by Car Charger 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 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.
Pre-scan	02	TX mode(Charged by Car Charger 2)_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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7.7.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz



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7.7.4 Measurement Procedure and Data

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

Remark:

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

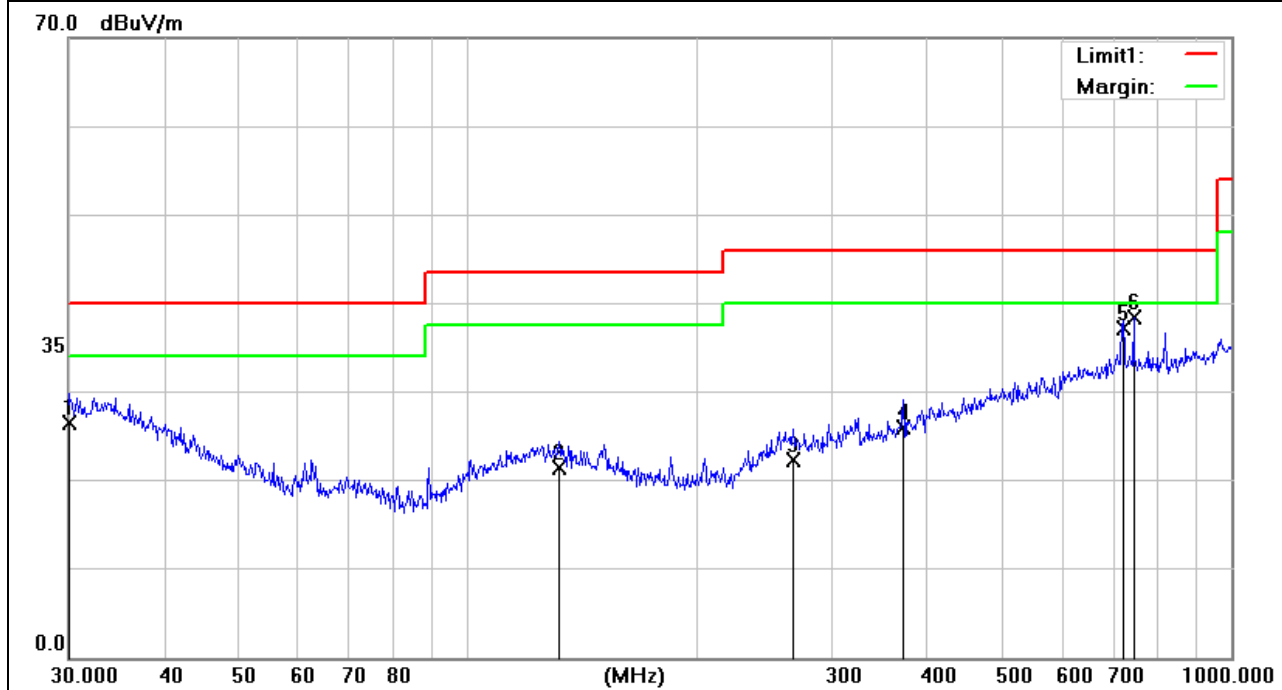


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Test Mode: 00; Polarity: Horizontal



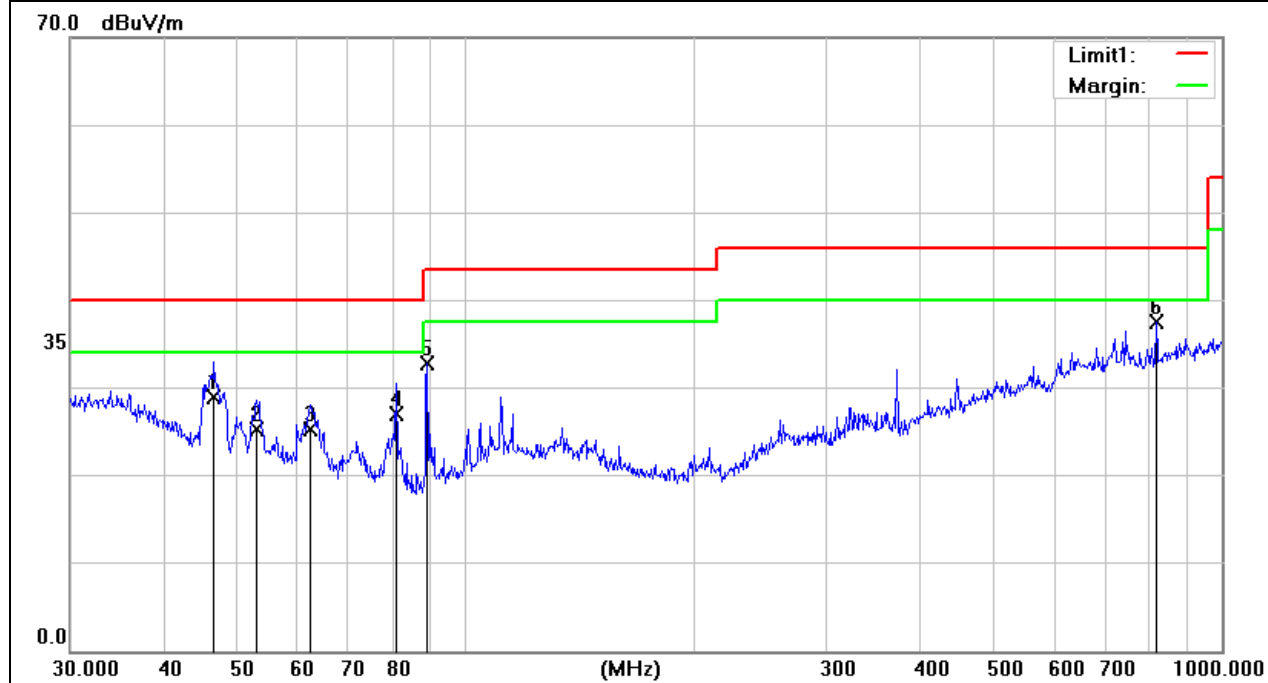
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.0000	1.22	25.25	26.47	40.00	-13.53	100	107	QP
2	131.7577	2.19	19.30	21.49	43.50	-22.01	100	111	QP
3	266.6089	1.48	20.83	22.31	46.00	-23.69	200	150	QP
4	372.0045	3.82	22.19	26.01	46.00	-19.99	152	30	QP
5	721.7259	9.15	27.97	37.12	46.00	-8.88	101	88	QP
6	744.8661	10.27	28.06	38.33	46.00	-7.67	100	360	QP



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Test Mode: 00; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	46.5030	9.81	19.16	28.97	40.00	-11.03	100	78	QP
2	52.9453	8.46	16.77	25.23	40.00	-14.77	100	65	QP
3	62.4314	10.64	14.68	25.32	40.00	-14.68	200	59	QP
4	80.9275	12.95	14.08	27.03	40.00	-12.97	101	264	QP
5	88.9639	18.10	14.64	32.74	43.50	-10.76	115	86	QP
6	818.8341	9.36	28.13	37.49	46.00	-8.51	100	0	QP



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000192902

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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: 23.9 °C Humidity: 50.6 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(Charged by Car Charger 1)_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.
Pre-scan	02	TX mode(Charged by Car Charger 2)_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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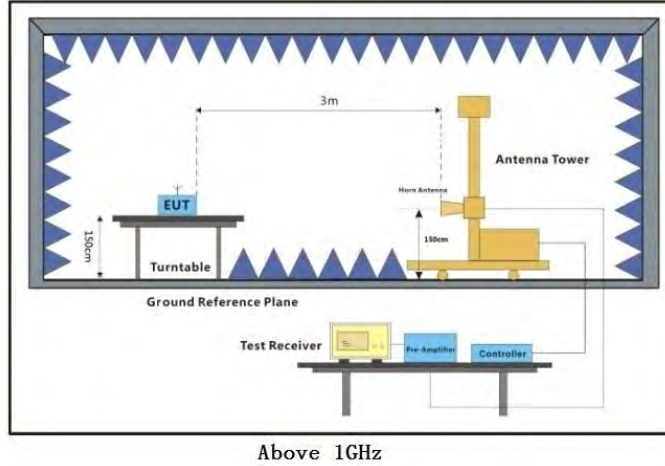
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7.8.3 Test Setup Diagram



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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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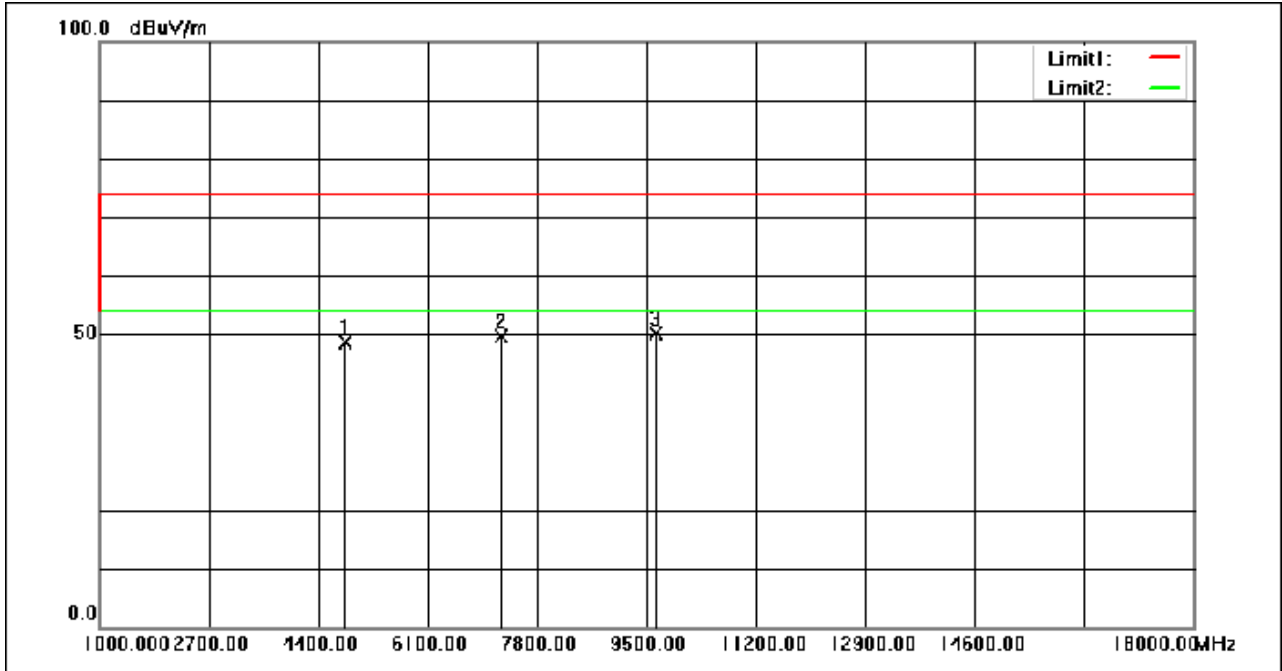
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Report No.: KSCR221000192902

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.33	-8.78	48.55	74.00	-25.45	peak
2	7236.000	55.50	-5.86	49.64	74.00	-24.36	peak
3	9648.000	51.46	-1.31	50.15	74.00	-23.85	peak



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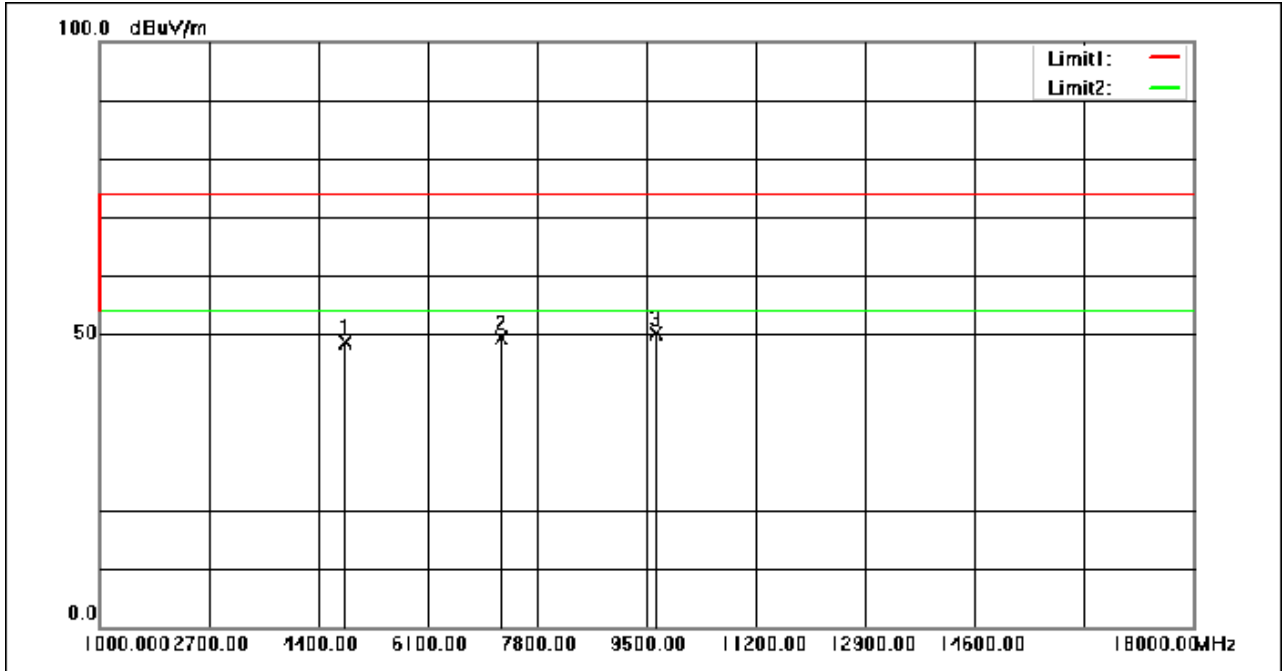
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000192902

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.36	-8.78	48.58	74.00	-25.42	peak
2	7236.000	55.33	-5.86	49.47	74.00	-24.53	peak
3	9648.000	51.36	-1.31	50.05	74.00	-23.95	peak

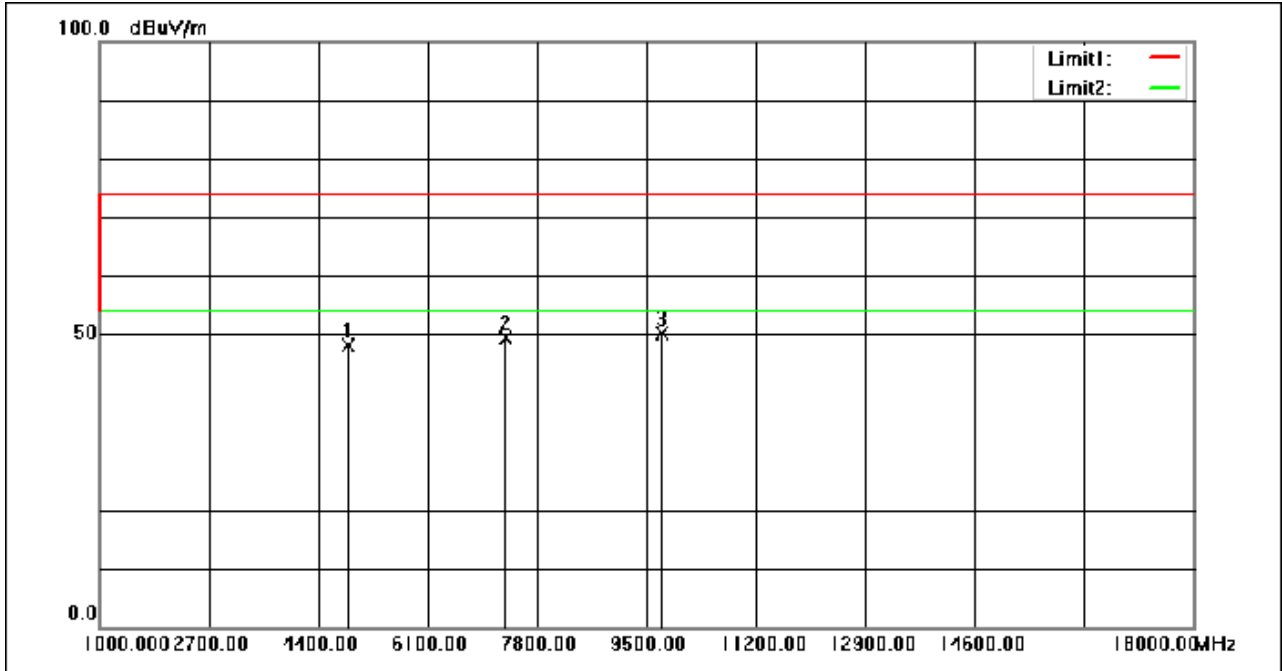


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	56.82	-8.61	48.21	74.00	-25.79	peak
2	7311.000	55.24	-5.78	49.46	74.00	-24.54	peak
3	9748.000	51.66	-1.43	50.23	74.00	-23.77	peak

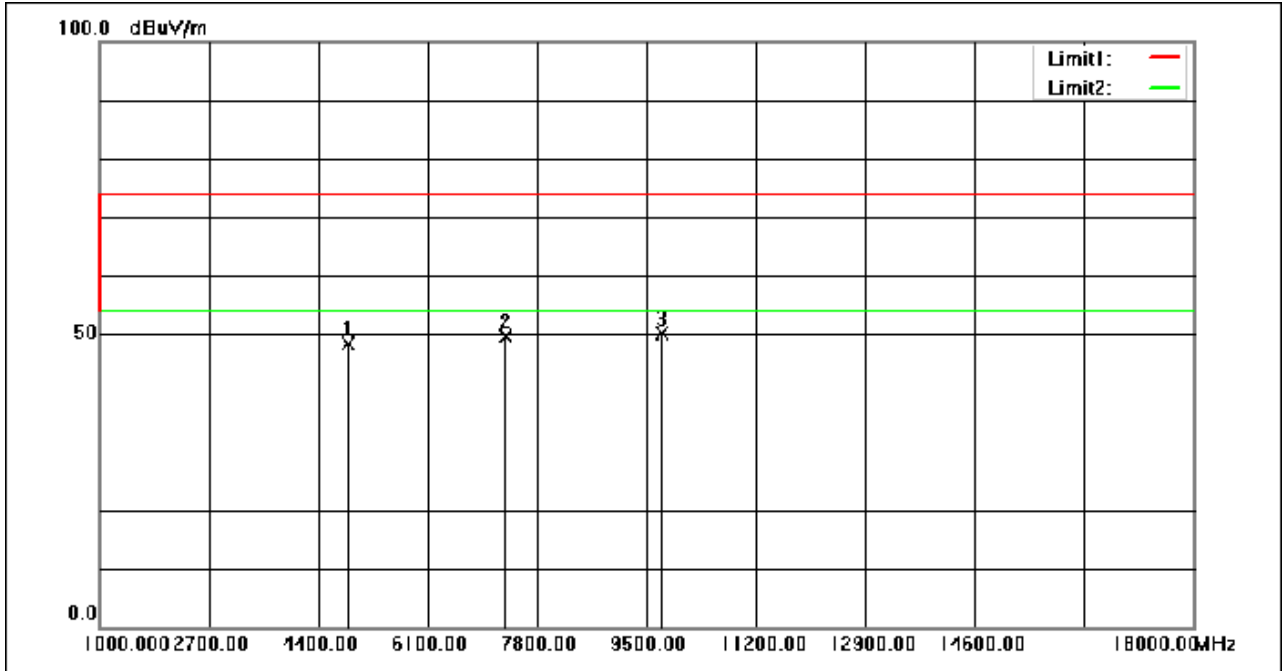


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	56.89	-8.61	48.28	74.00	-25.72	peak
2	7311.000	55.42	-5.78	49.64	74.00	-24.36	peak
3	9748.000	51.54	-1.43	50.11	74.00	-23.89	peak



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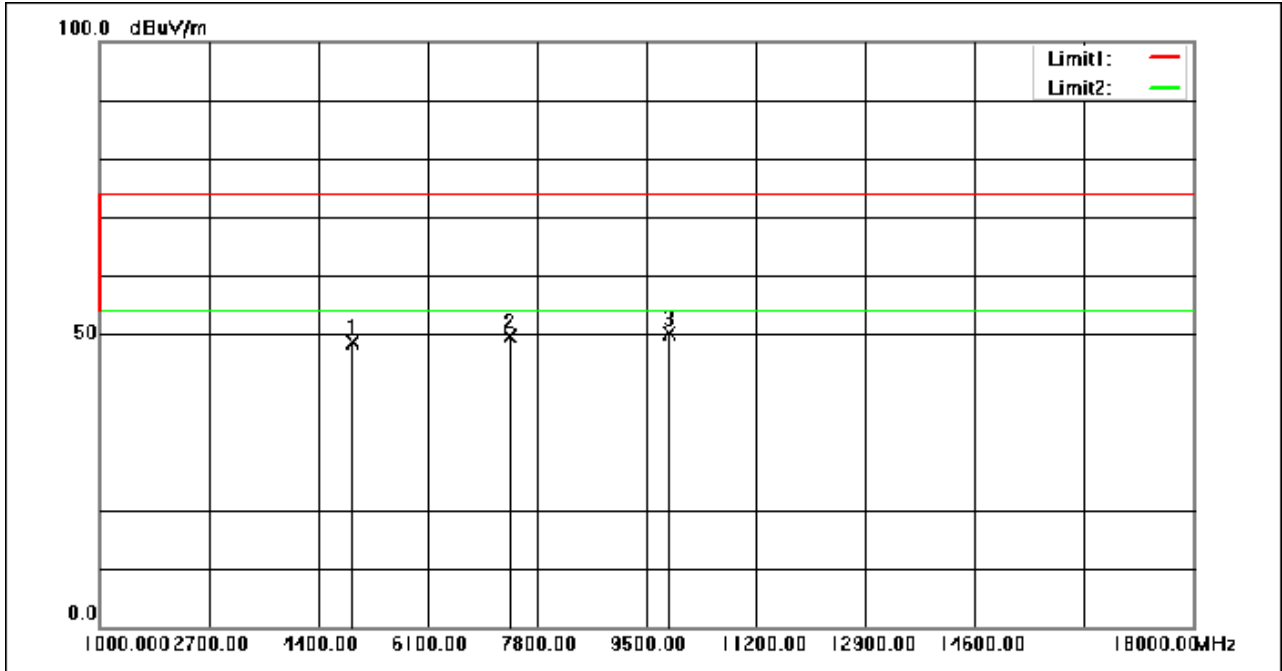
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	57.12	-8.44	48.68	74.00	-25.32	peak
2	7386.000	55.21	-5.69	49.52	74.00	-24.48	peak
3	9848.000	51.49	-1.27	50.22	74.00	-23.78	peak



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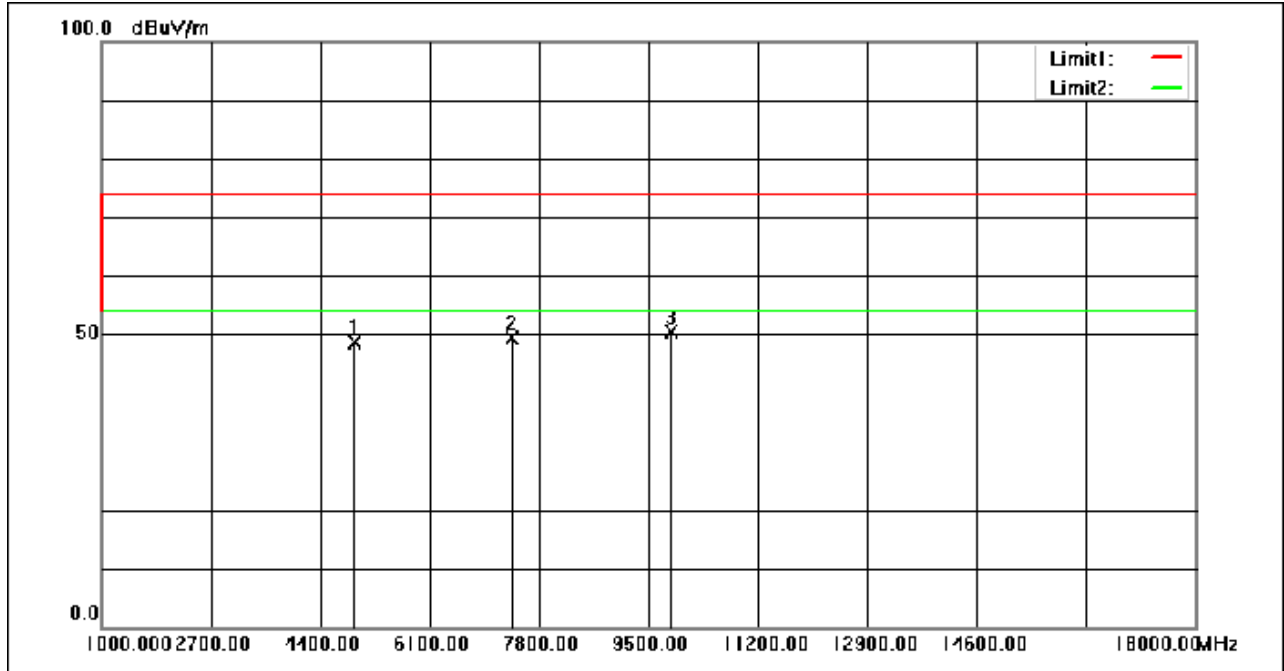
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	57.18	-8.44	48.74	74.00	-25.26	peak
2	7386.000	55.02	-5.69	49.33	74.00	-24.67	peak
3	9848.000	51.61	-1.27	50.34	74.00	-23.66	peak



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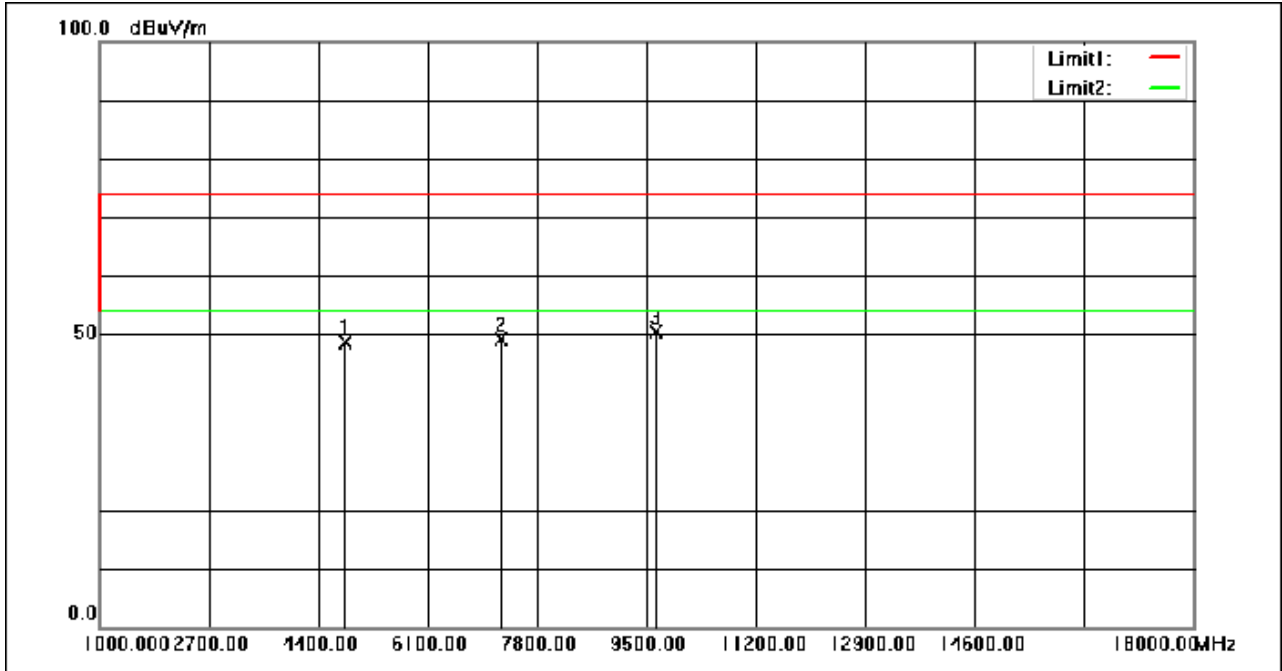
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.47	-8.78	48.69	74.00	-25.31	peak
2	7236.000	54.94	-5.86	49.08	74.00	-24.92	peak
3	9648.000	51.66	-1.31	50.35	74.00	-23.65	peak



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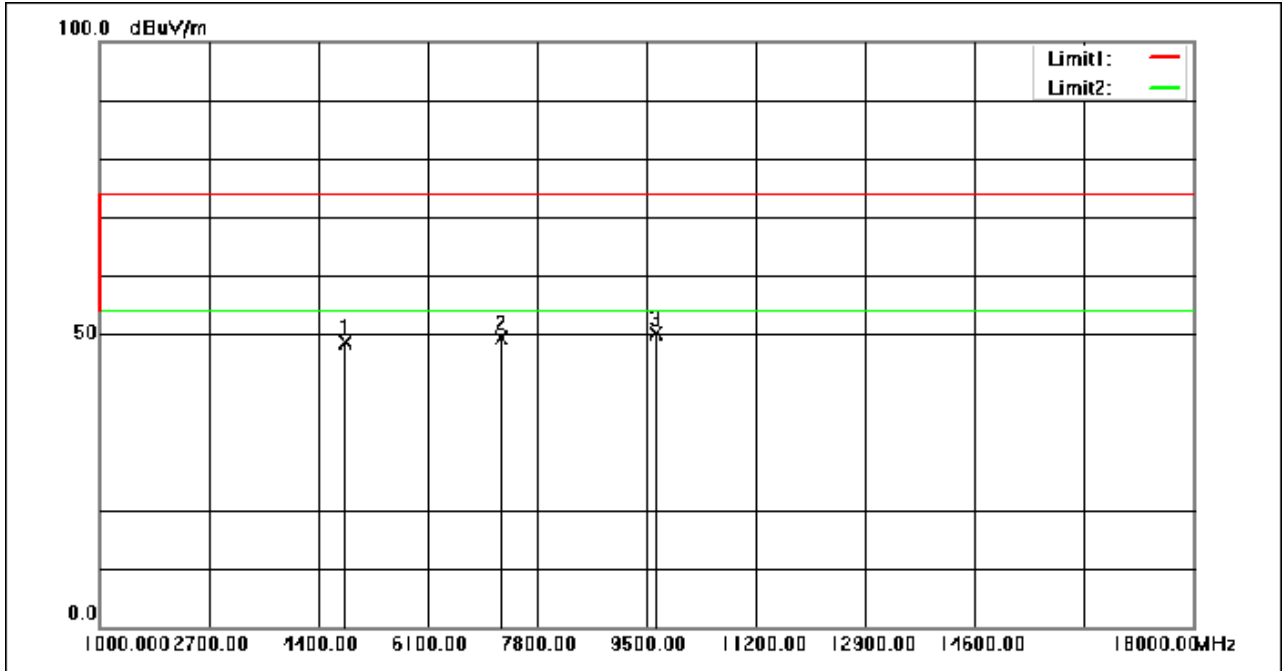
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Report No.: KSCR221000192902

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.51	-8.78	48.73	74.00	-25.27	peak
2	7236.000	55.34	-5.86	49.48	74.00	-24.52	peak
3	9648.000	51.37	-1.31	50.06	74.00	-23.94	peak

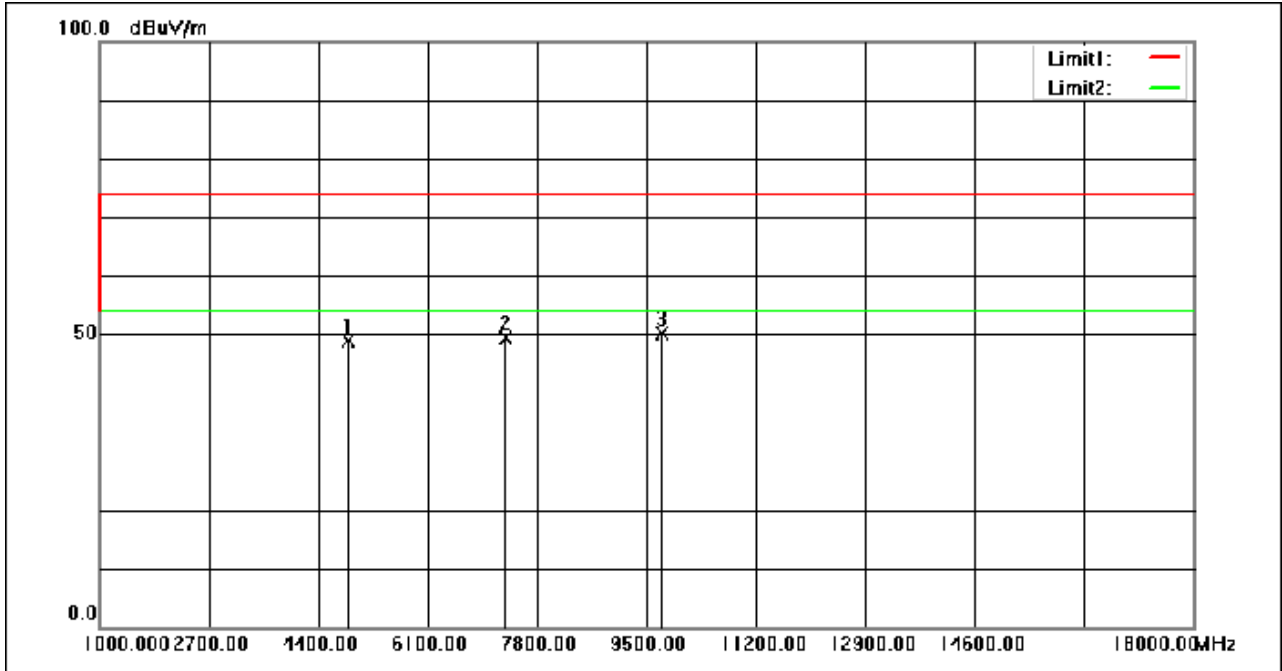


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.38	-8.61	48.77	74.00	-25.23	peak
2	7311.000	55.24	-5.78	49.46	74.00	-24.54	peak
3	9748.000	51.58	-1.43	50.15	74.00	-23.85	peak



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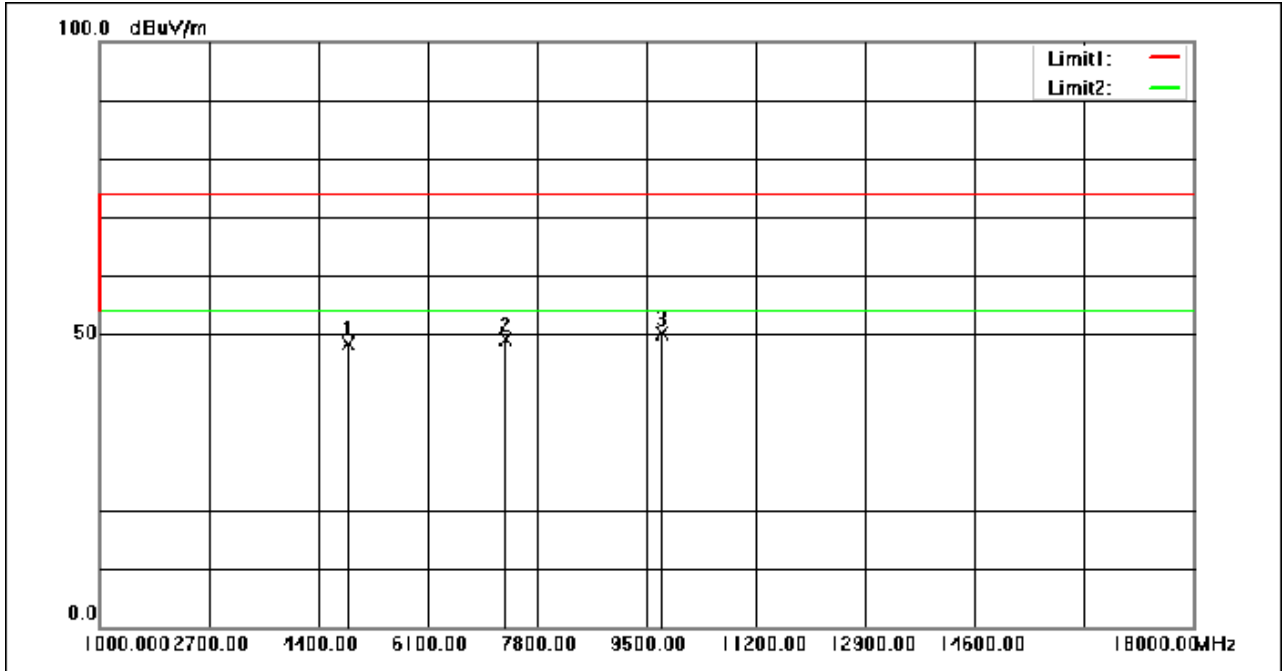
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000192902

Page: 64 of 133

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	56.90	-8.61	48.29	74.00	-25.71	peak
2	7311.000	54.86	-5.78	49.08	74.00	-24.92	peak
3	9748.000	51.56	-1.43	50.13	74.00	-23.87	peak



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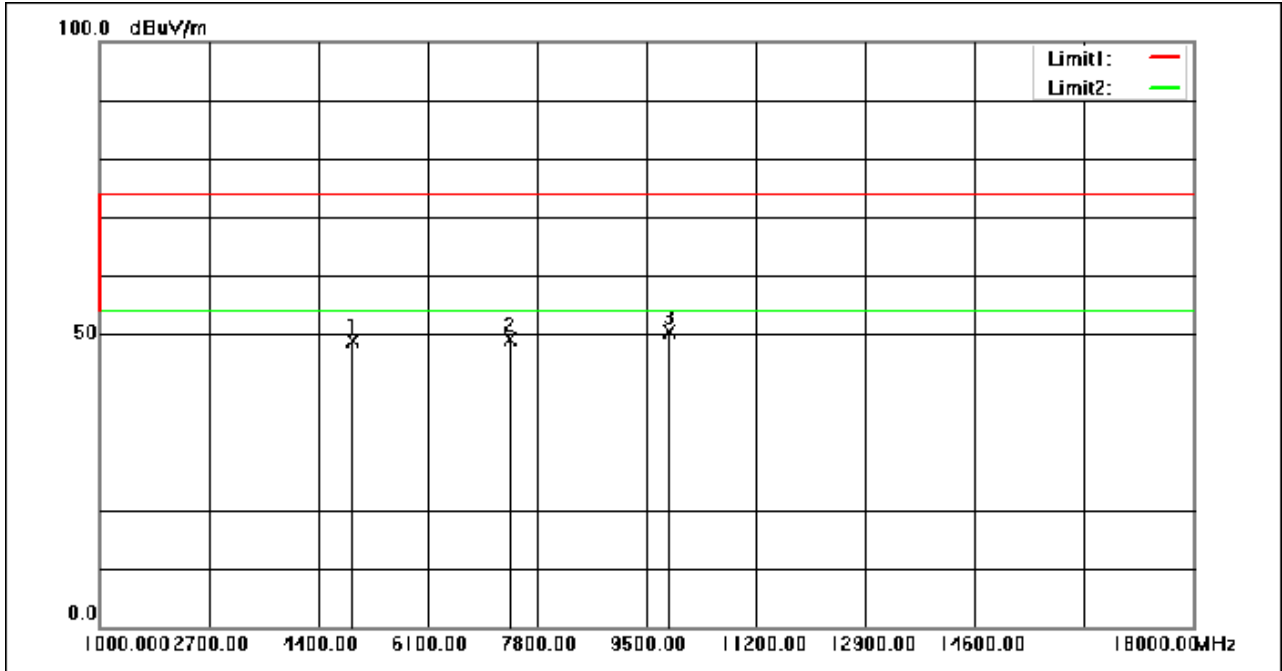
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000192902

Page: 65 of 133

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	57.26	-8.44	48.82	74.00	-25.18	peak
2	7386.000	54.76	-5.69	49.07	74.00	-24.93	peak
3	9848.000	51.61	-1.27	50.34	74.00	-23.66	peak

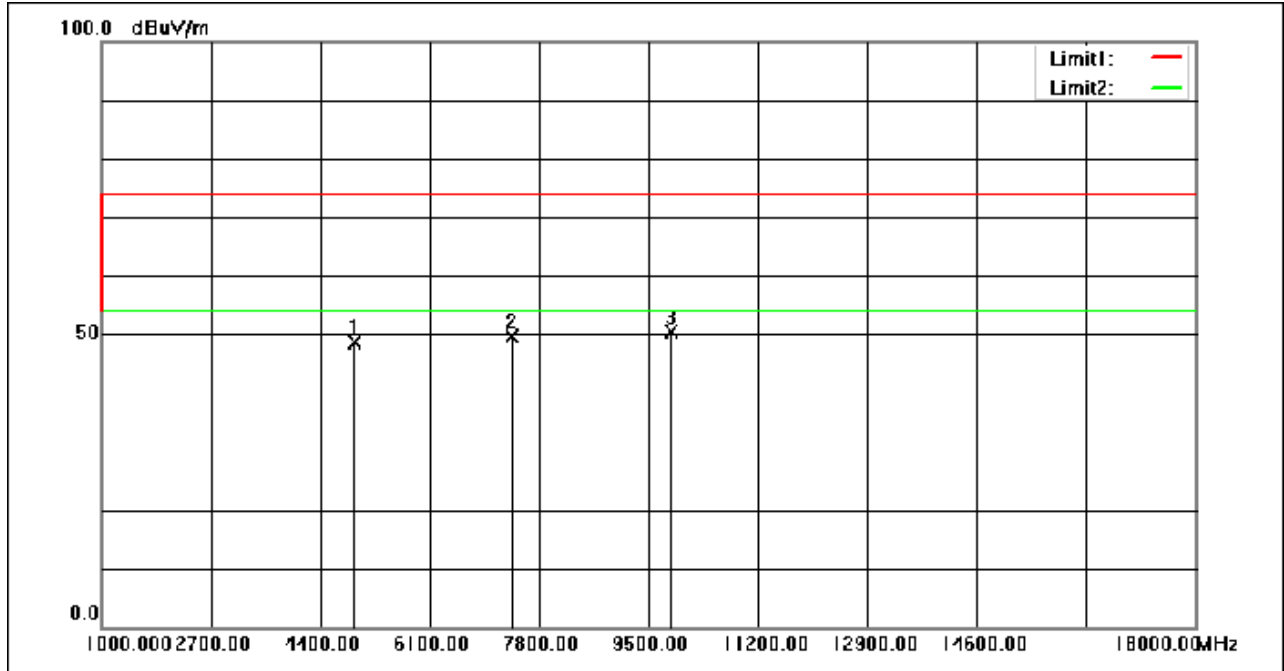


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	57.01	-8.44	48.57	74.00	-25.43	peak
2	7386.000	55.32	-5.69	49.63	74.00	-24.37	peak
3	9848.000	51.55	-1.27	50.28	74.00	-23.72	peak



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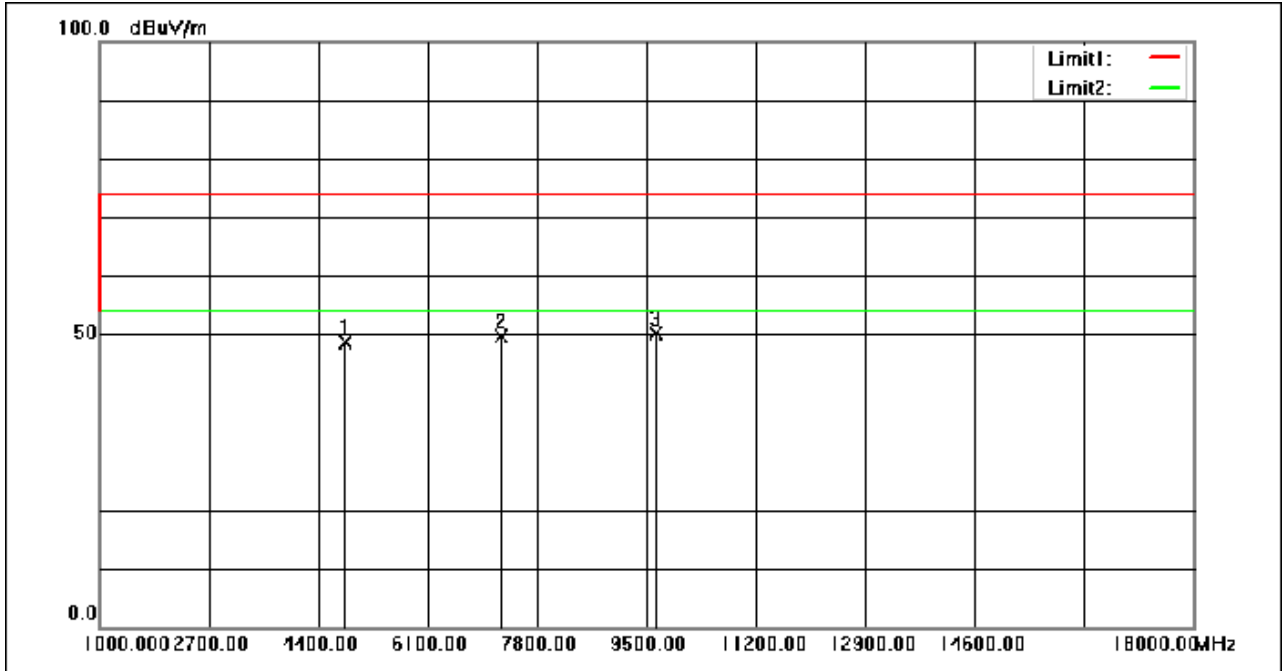
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000192902

Page: 67 of 133

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



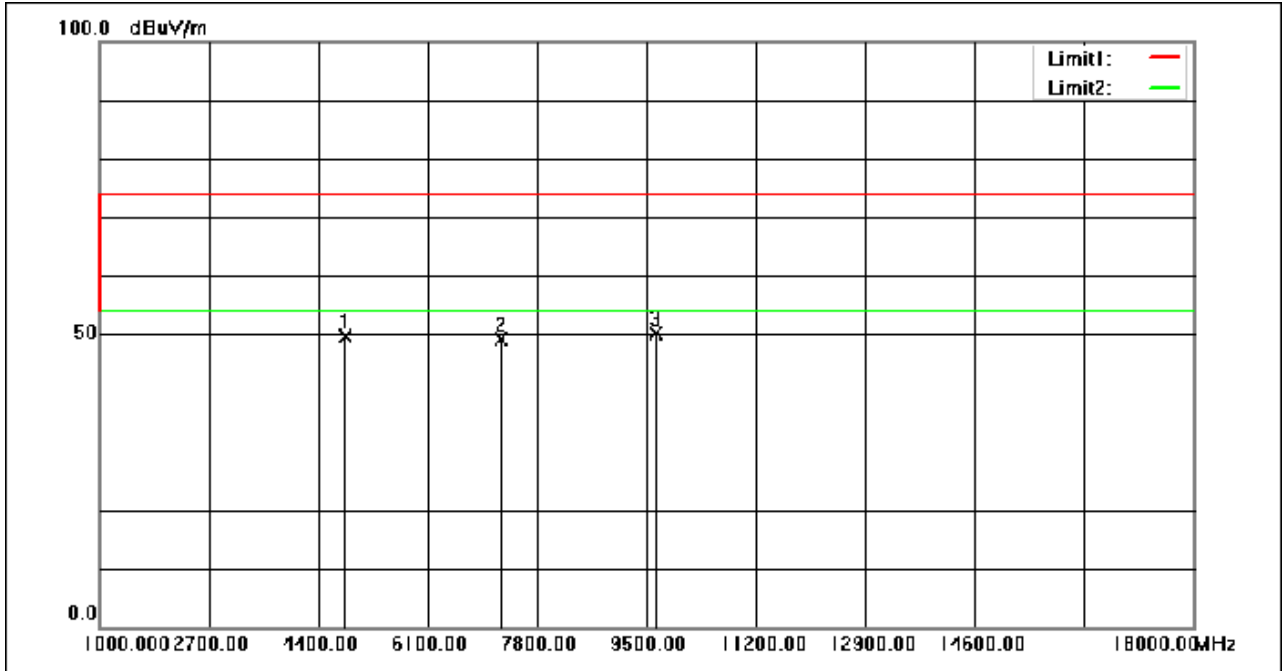
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	57.49	-8.78	48.71	74.00	-25.29	peak
2	7236.000	55.39	-5.86	49.53	74.00	-24.47	peak
3	9648.000	51.47	-1.31	50.16	74.00	-23.84	peak



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



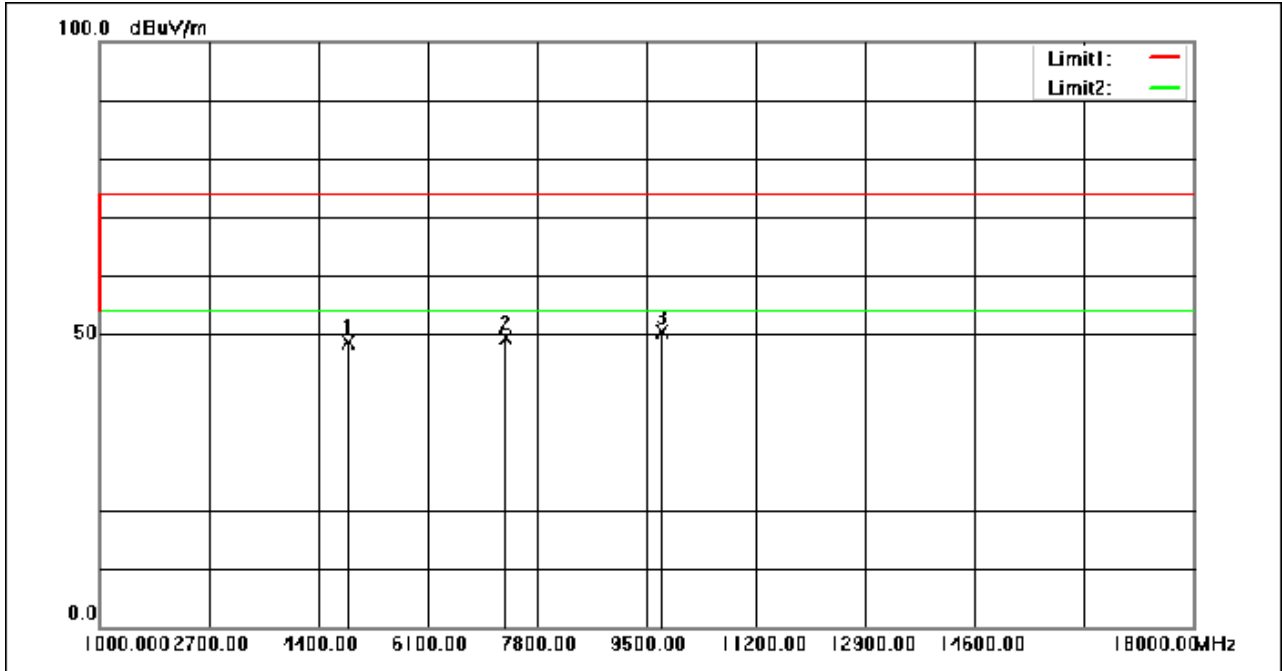
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4824.000	58.43	-8.78	49.65	74.00	-24.35	peak
2	7236.000	55.09	-5.86	49.23	74.00	-24.77	peak
3	9648.000	51.38	-1.31	50.07	74.00	-23.93	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.28	-8.61	48.67	74.00	-25.33	peak
2	7311.000	55.23	-5.78	49.45	74.00	-24.55	peak
3	9748.000	51.70	-1.43	50.27	74.00	-23.73	peak

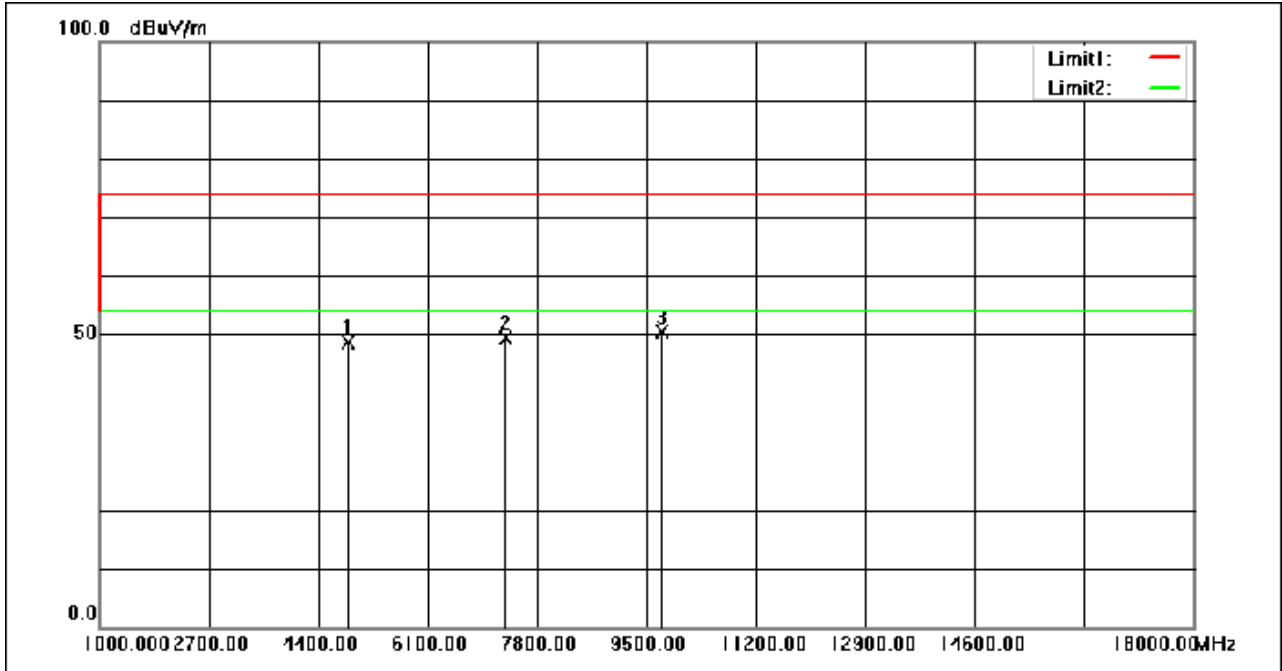


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.29	-8.61	48.68	74.00	-25.32	peak
2	7311.000	55.23	-5.78	49.45	74.00	-24.55	peak
3	9748.000	51.74	-1.43	50.31	74.00	-23.69	peak



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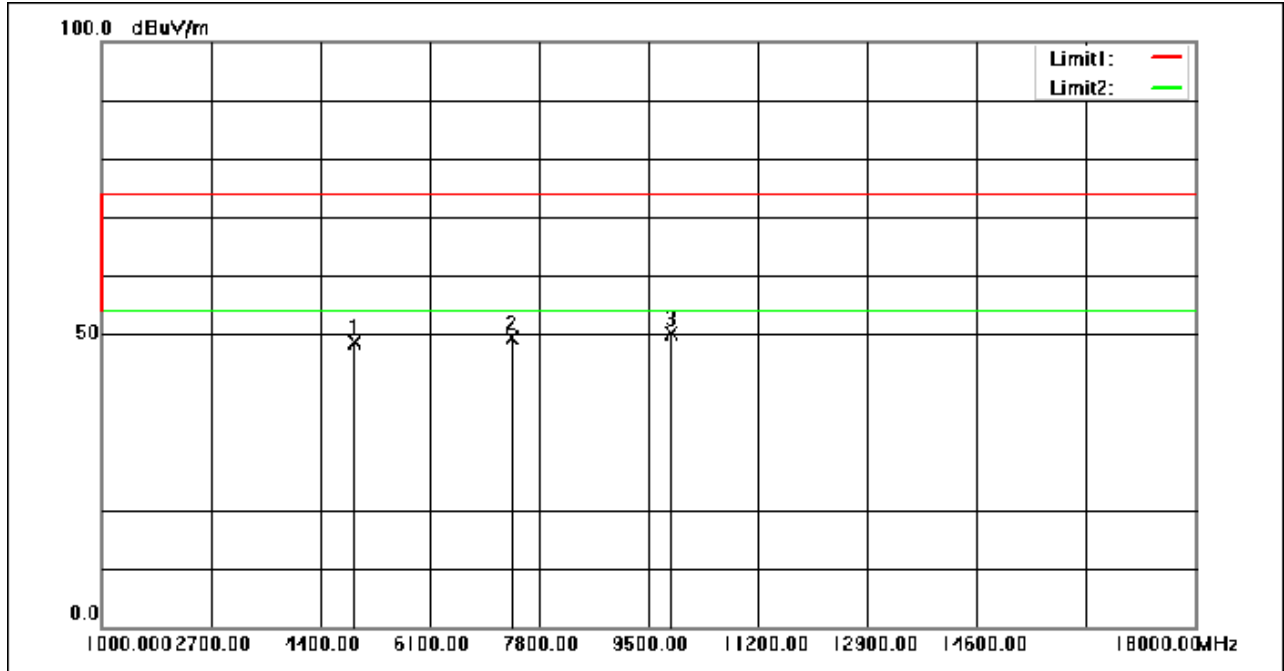
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000192902

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	56.98	-8.44	48.54	74.00	-25.46	peak
2	7386.000	55.08	-5.69	49.39	74.00	-24.61	peak
3	9848.000	51.29	-1.27	50.02	74.00	-23.98	peak



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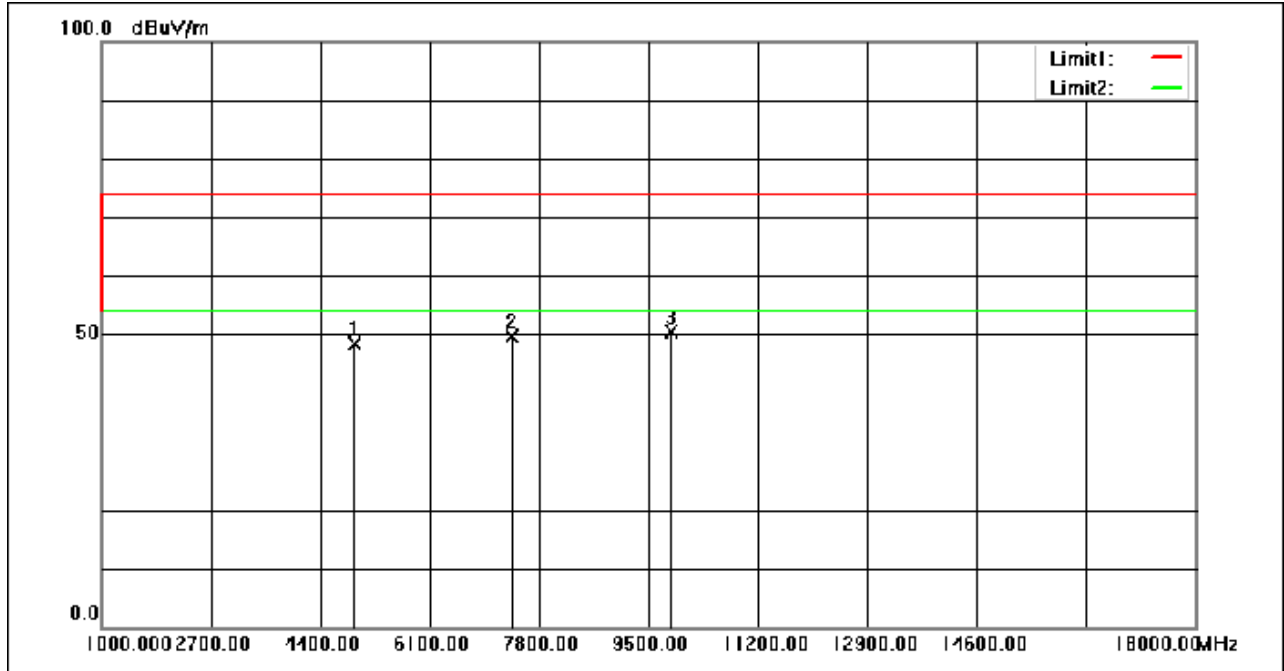
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000192902

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4924.000	56.91	-8.44	48.47	74.00	-25.53	peak
2	7386.000	55.22	-5.69	49.53	74.00	-24.47	peak
3	9848.000	51.53	-1.27	50.26	74.00	-23.74	peak



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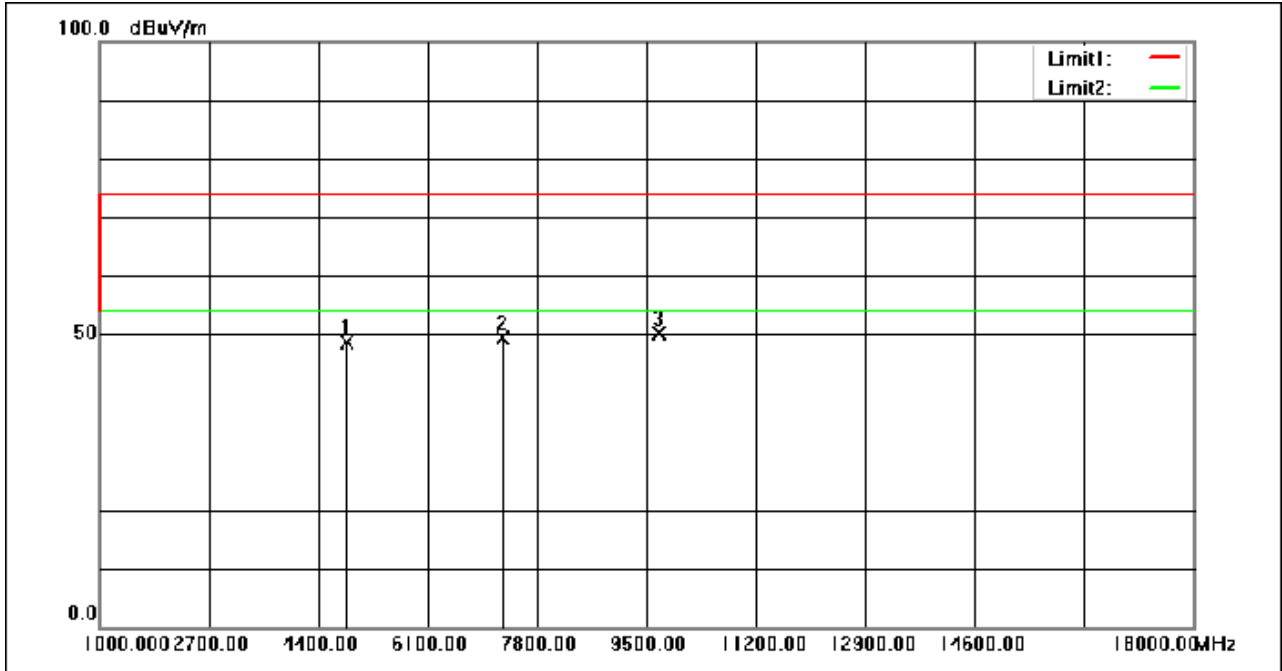
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000192902

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



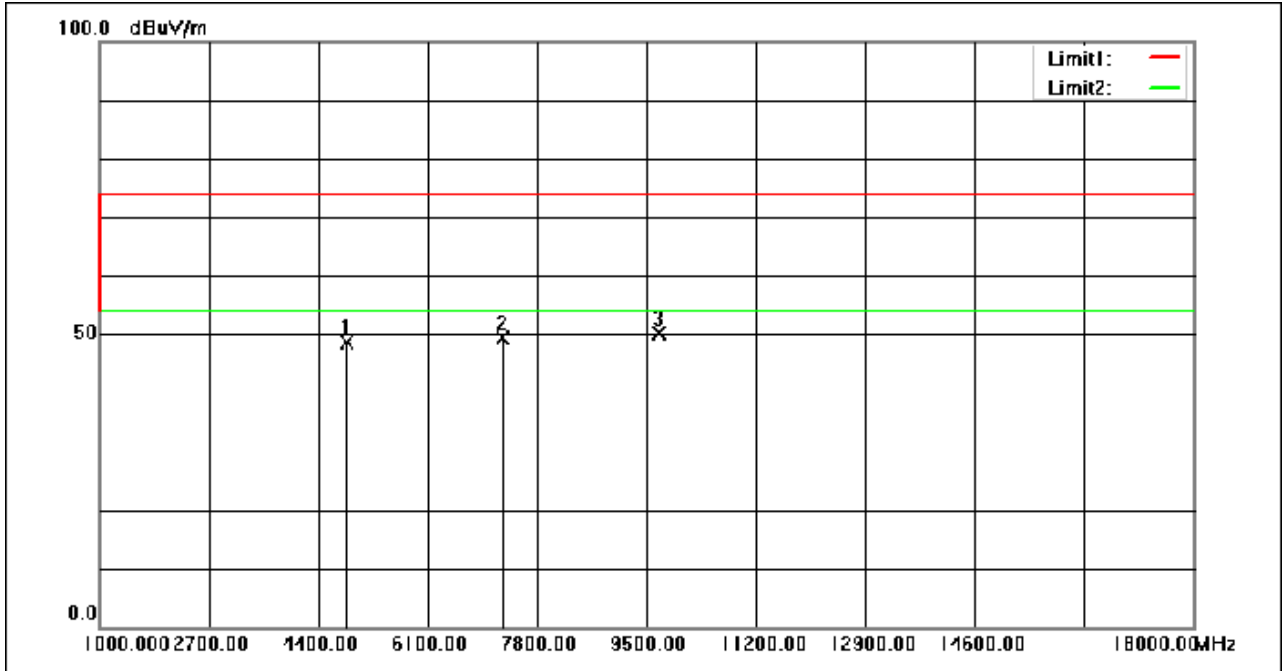
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1	4844.000	57.23	-8.71	48.52	74.00	-25.48	peak
2	7266.000	55.30	-5.83	49.47	74.00	-24.53	peak
3	9688.000	51.61	-1.36	50.25	74.00	-23.75	peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4844.000	57.34	-8.71	48.63	74.00	-25.37	peak
2	7266.000	55.20	-5.83	49.37	74.00	-24.63	peak
3	9688.000	51.51	-1.36	50.15	74.00	-23.85	peak



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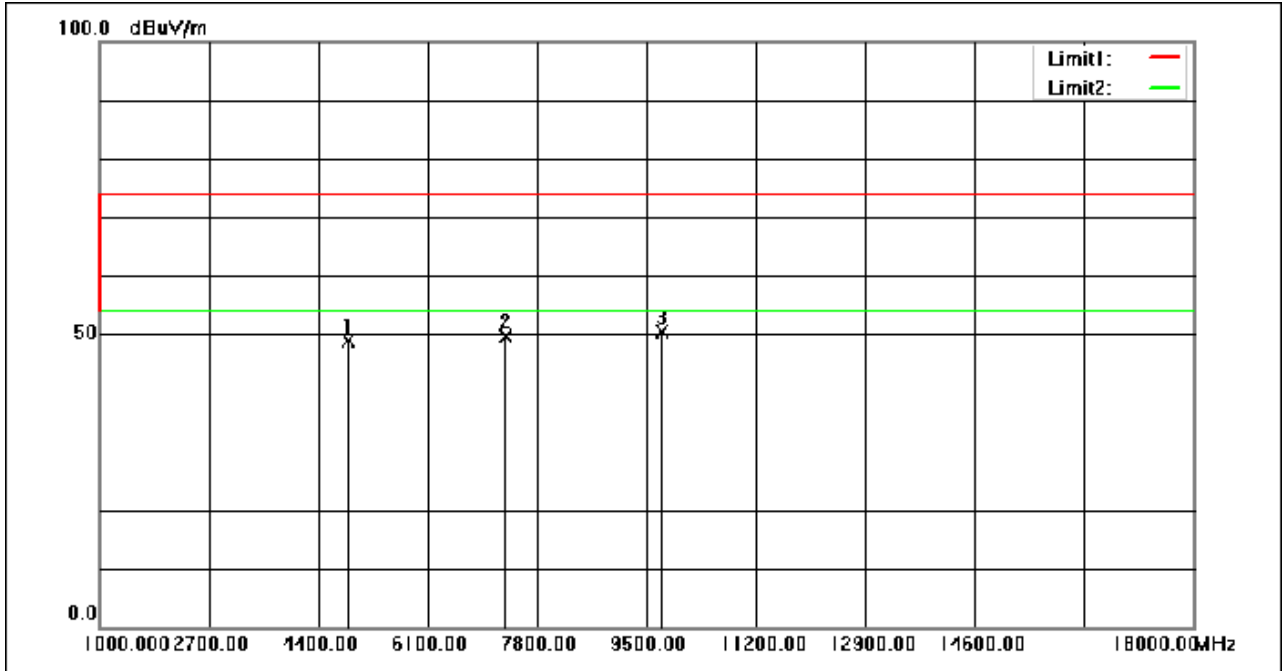
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000192902

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.40	-8.61	48.79	74.00	-25.21	peak
2	7311.000	55.31	-5.78	49.53	74.00	-24.47	peak
3	9748.000	51.79	-1.43	50.36	74.00	-23.64	peak



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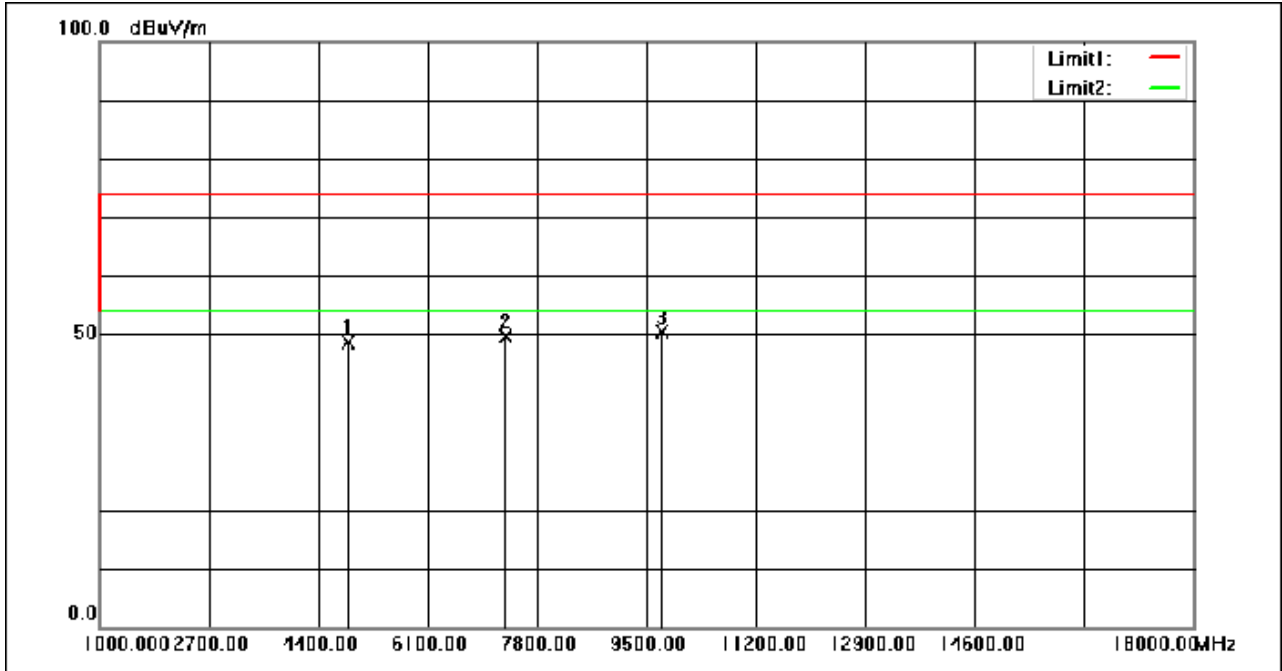
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000192902

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4874.000	57.32	-8.61	48.71	74.00	-25.29	peak
2	7311.000	55.42	-5.78	49.64	74.00	-24.36	peak
3	9748.000	51.77	-1.43	50.34	74.00	-23.66	peak

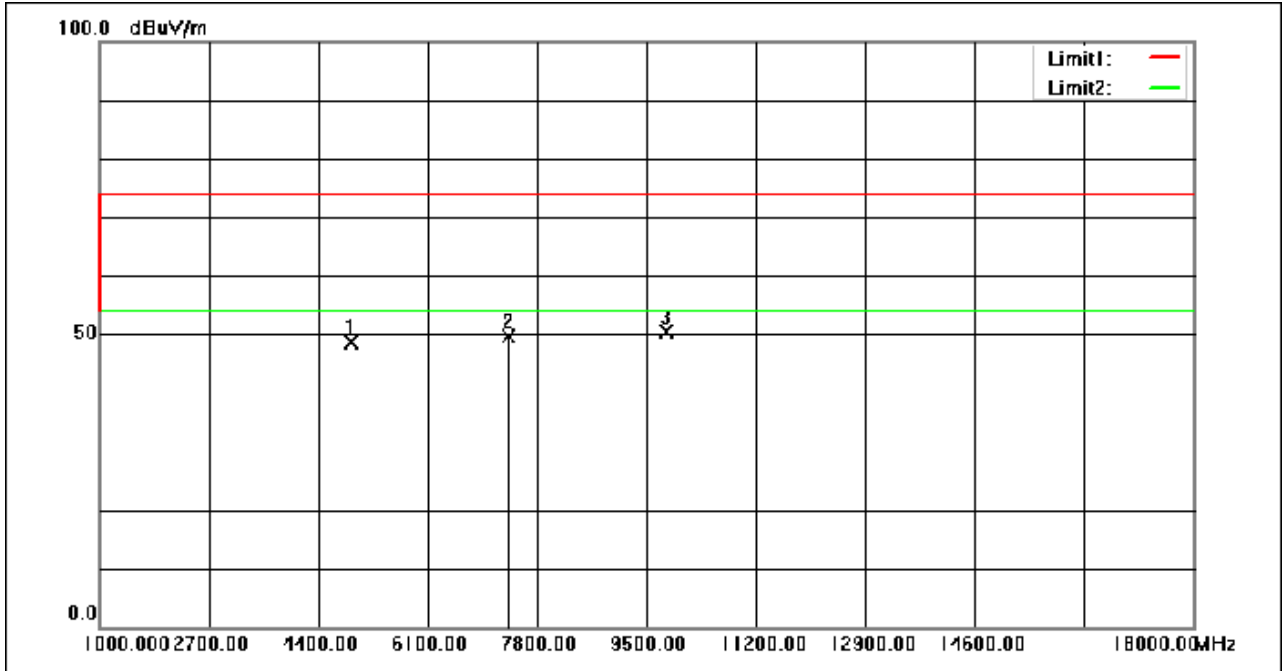


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	57.25	-8.51	48.74	74.00	-25.26	peak
2	7356.000	55.28	-5.73	49.55	74.00	-24.45	peak
3	9808.000	51.74	-1.47	50.27	74.00	-23.73	peak



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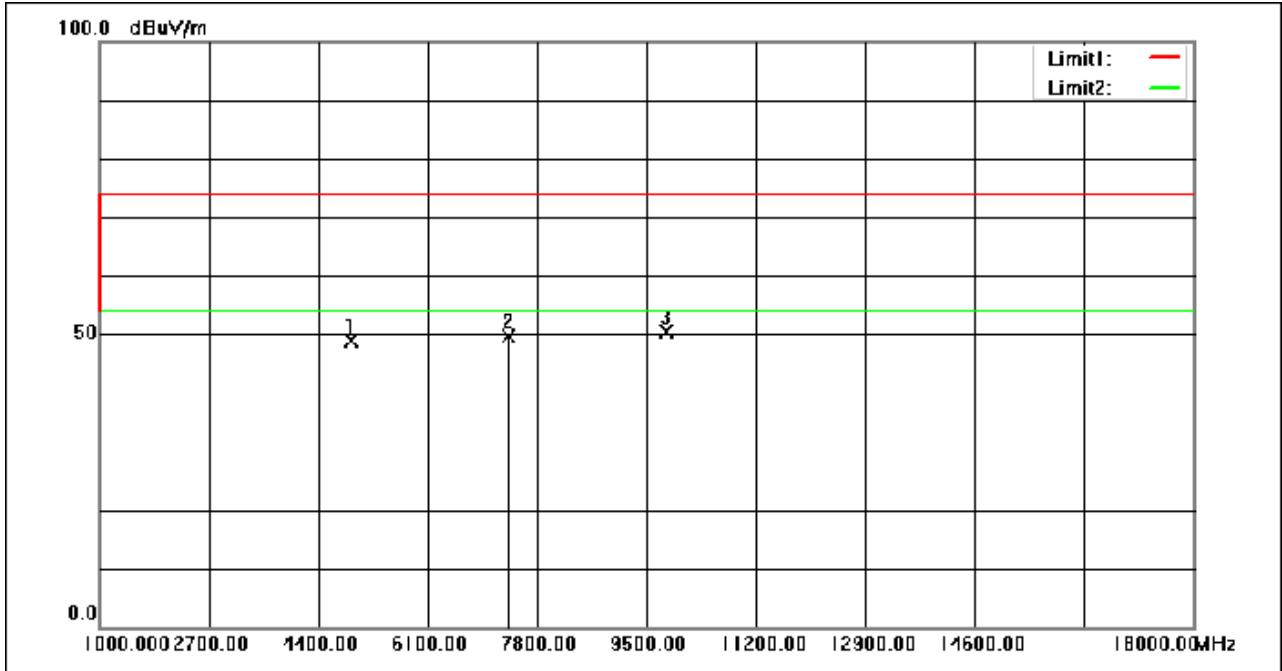
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Report No.: KSCR221000192902

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4904.000	57.33	-8.51	48.82	74.00	-25.18	peak
2	7356.000	55.40	-5.73	49.67	74.00	-24.33	peak
3	9808.000	51.89	-1.47	50.42	74.00	-23.58	peak



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7.9 99% Bandwidth

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

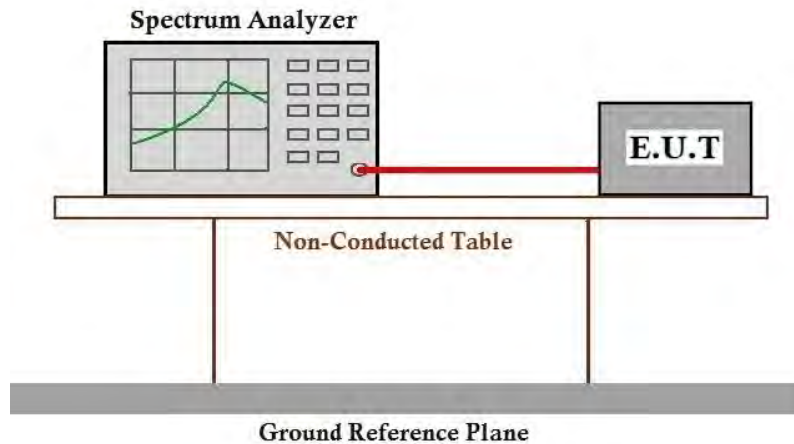
7.9.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.9 °C Humidity: 50.7 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(Charged by Car Charger 1)_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.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2210001929AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2210001929AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

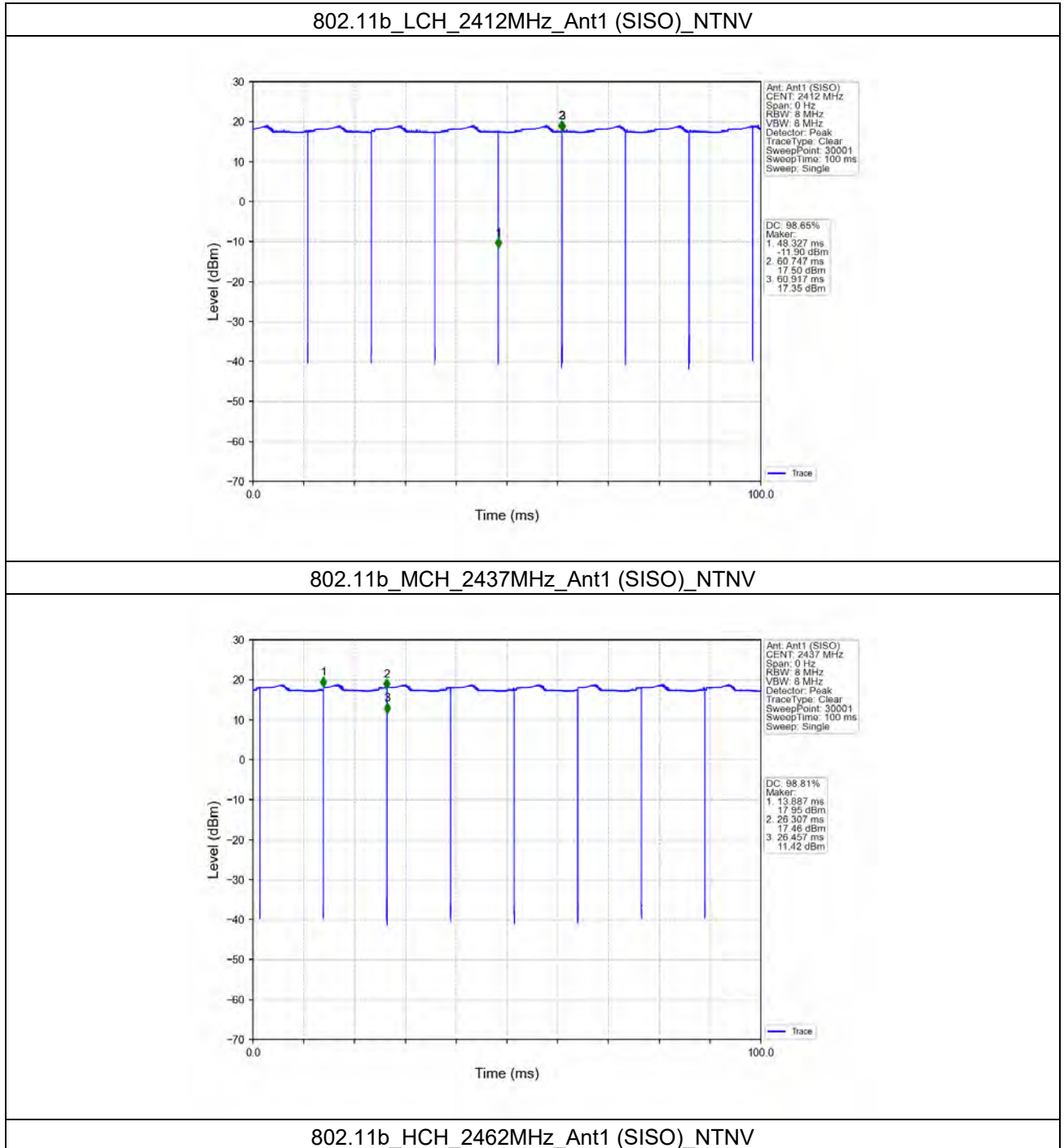
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.420	12.590	98.65	0.06	1.00
		2437	12.420	12.570	98.81	0.05	0.63
		2462	12.420	12.590	98.65	0.06	1.08
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00



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1.1.2 Test Graph

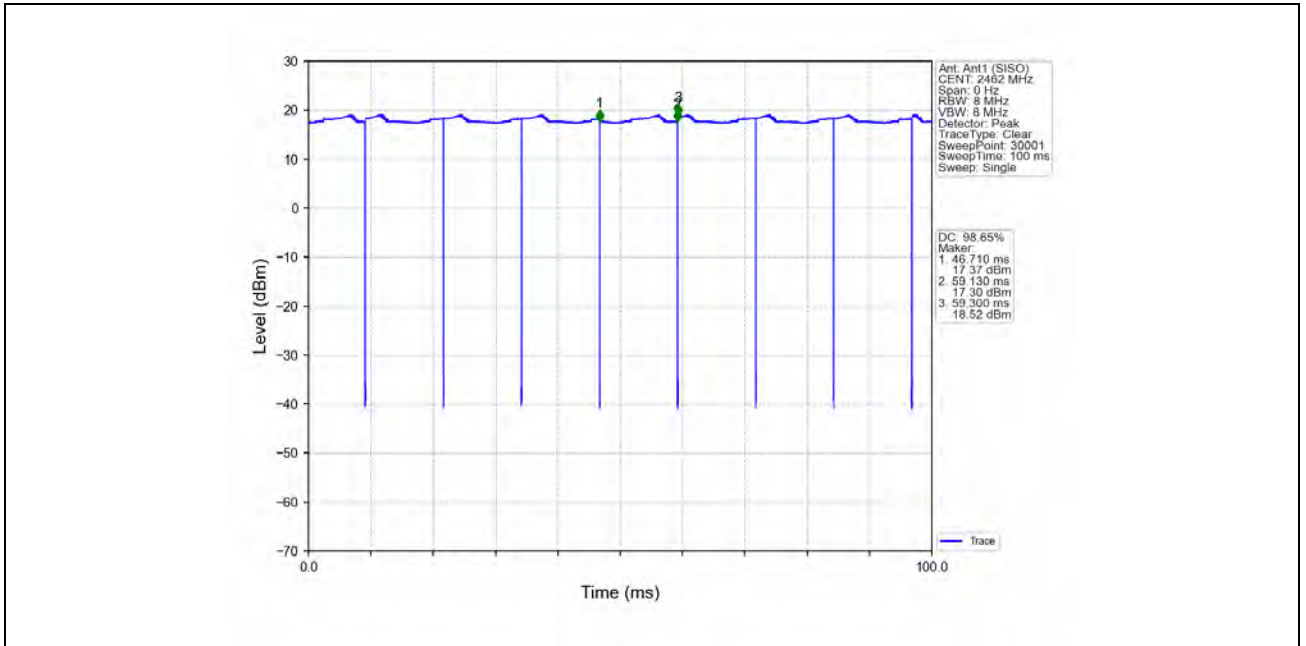


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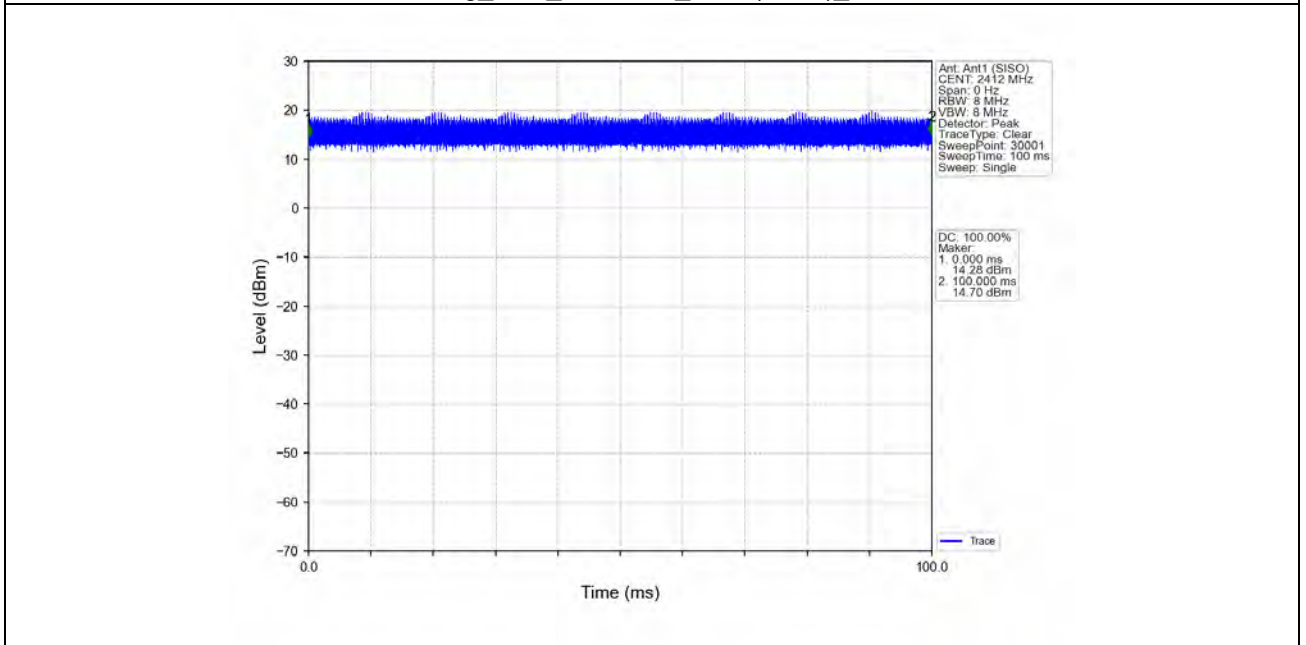
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



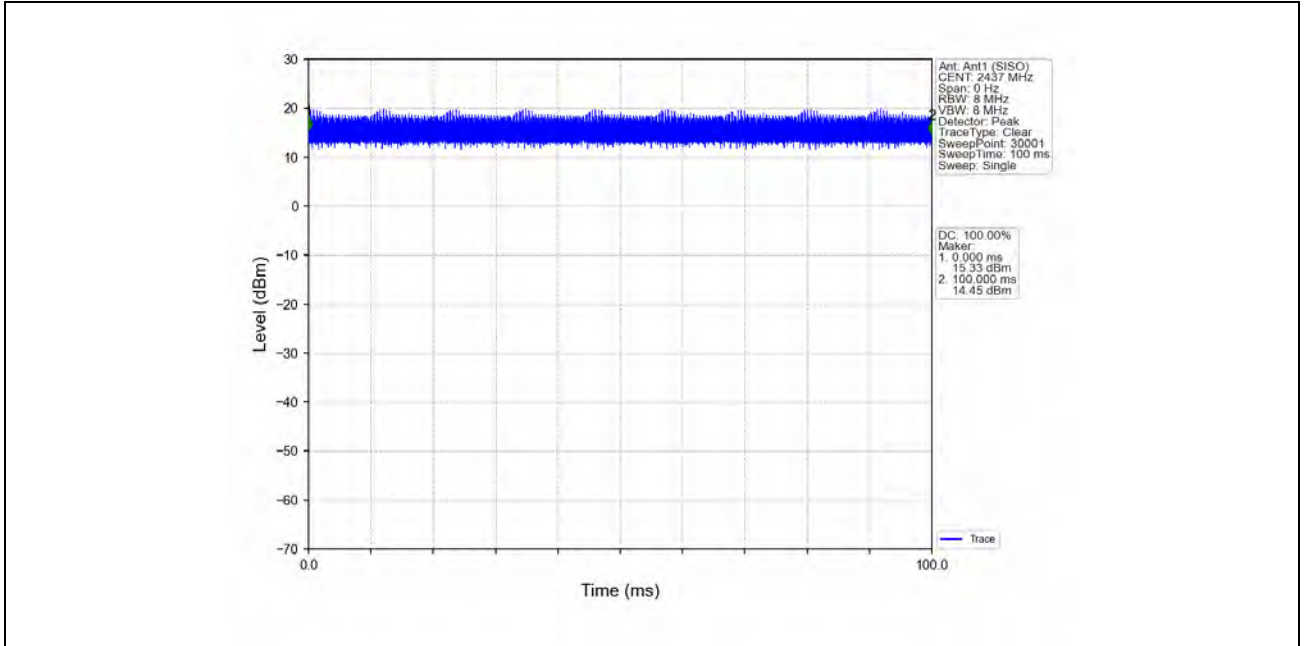
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



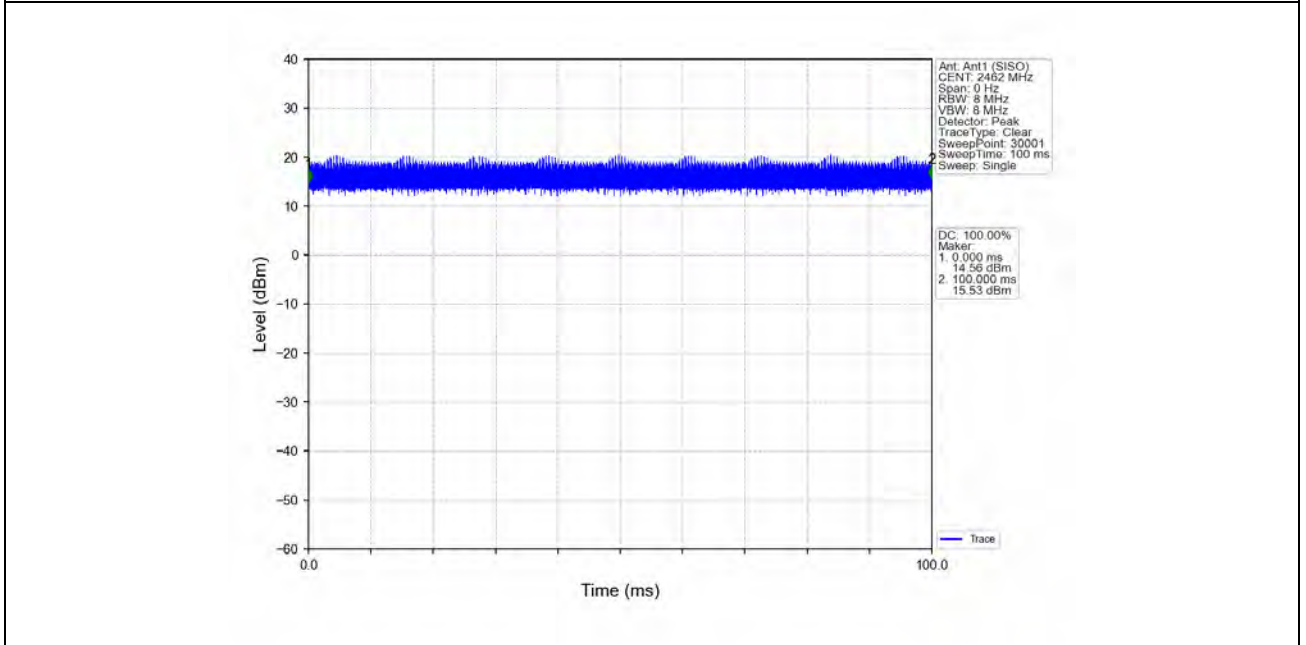
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

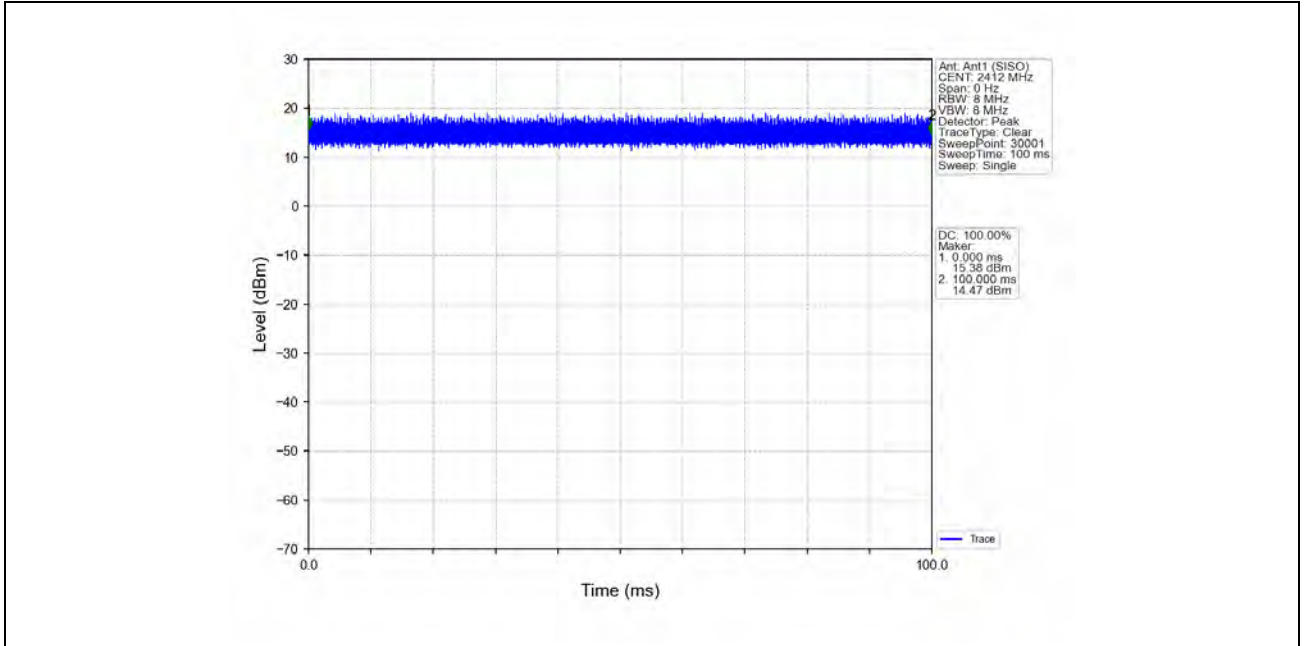


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

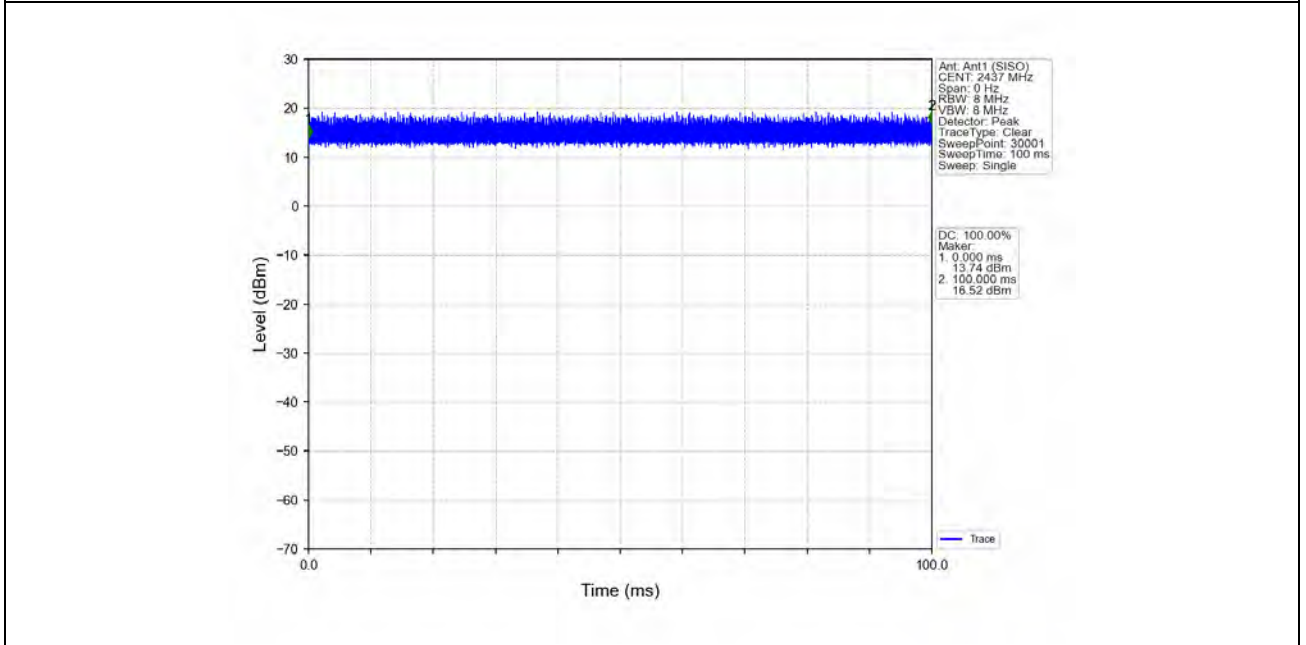


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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

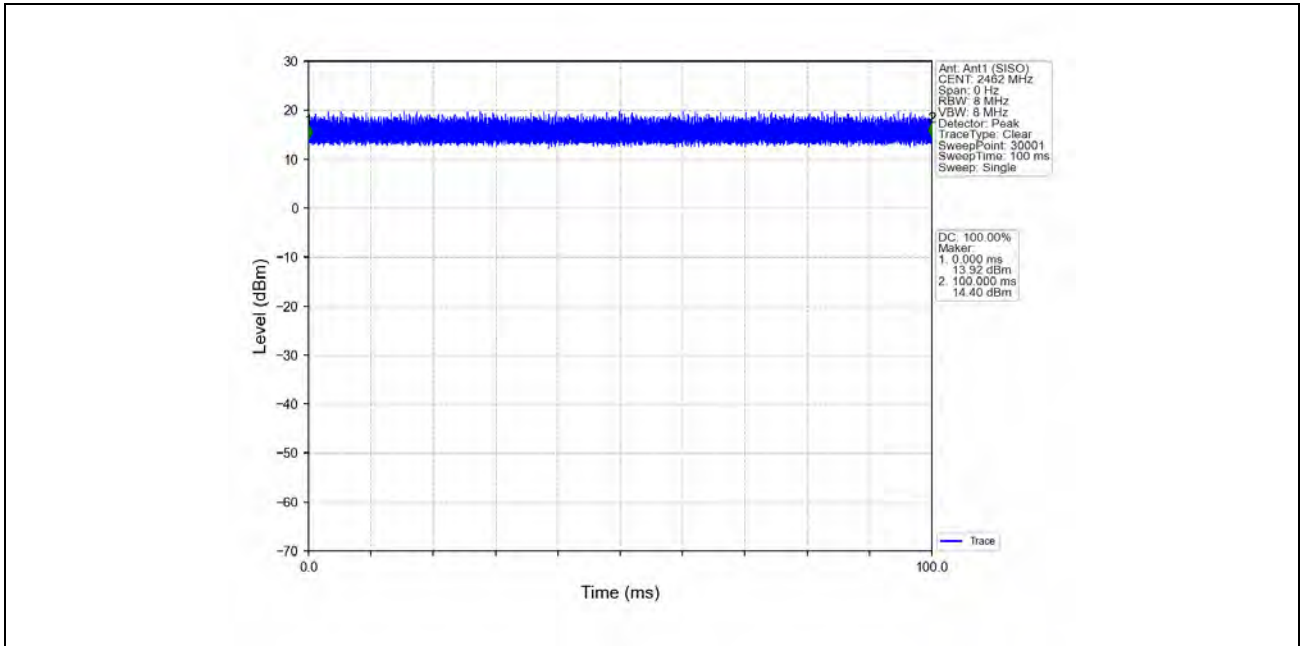


802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

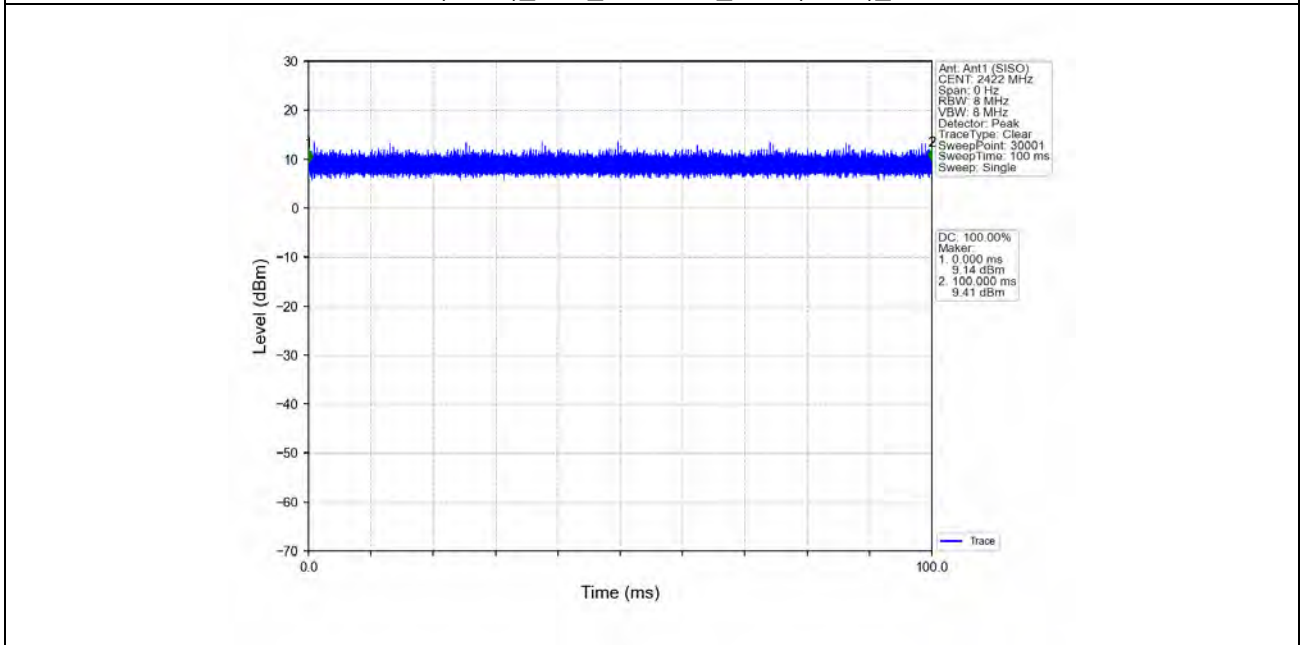


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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

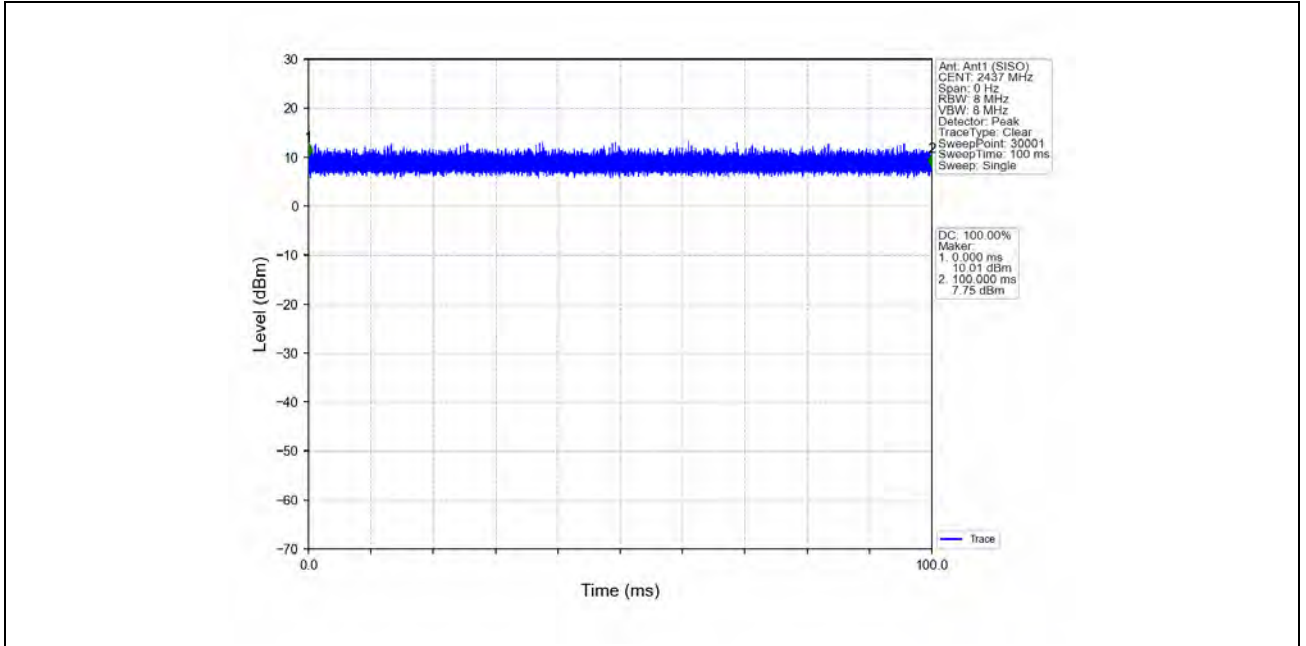


802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

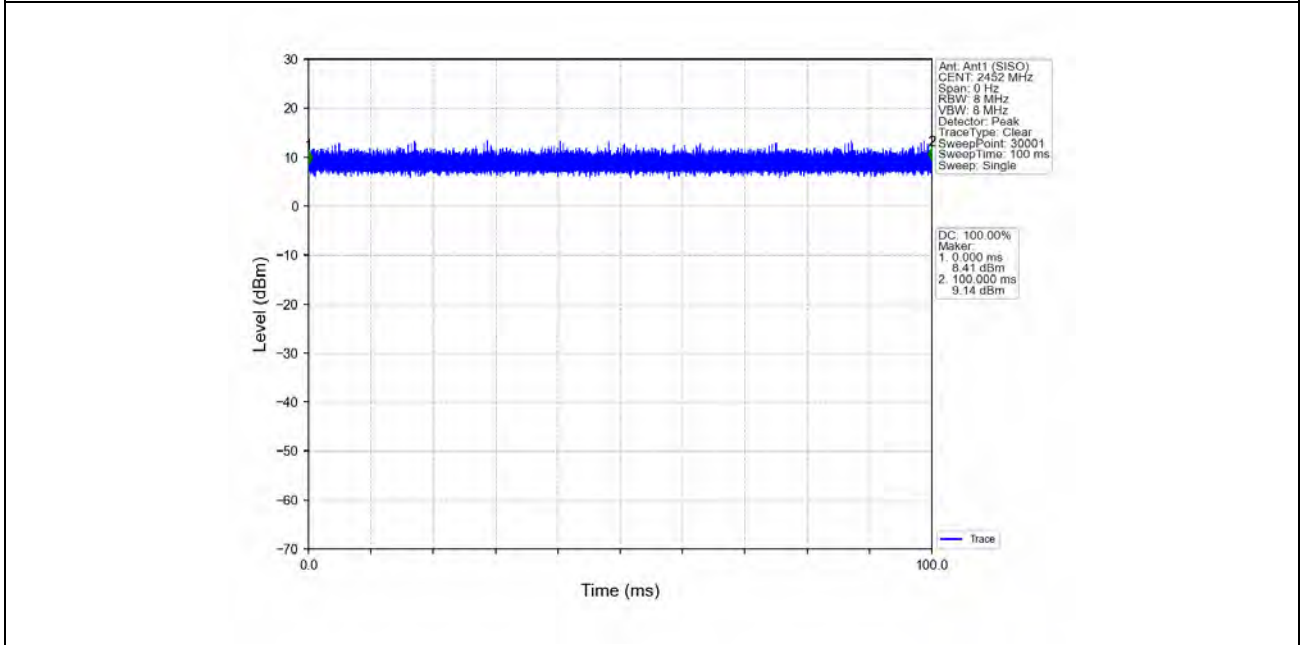


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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.890	Pass
		2437	1	14.878	Pass
		2462	1	14.870	Pass
802.11g	SISO	2412	1	17.654	Pass
		2437	1	17.664	Pass
		2462	1	17.679	Pass
802.11n (HT20)	SISO	2412	1	18.555	Pass
		2437	1	18.555	Pass
		2462	1	18.562	Pass
802.11n (HT40)	SISO	2422	1	36.010	Pass
		2437	1	36.016	Pass
		2452	1	36.018	Pass

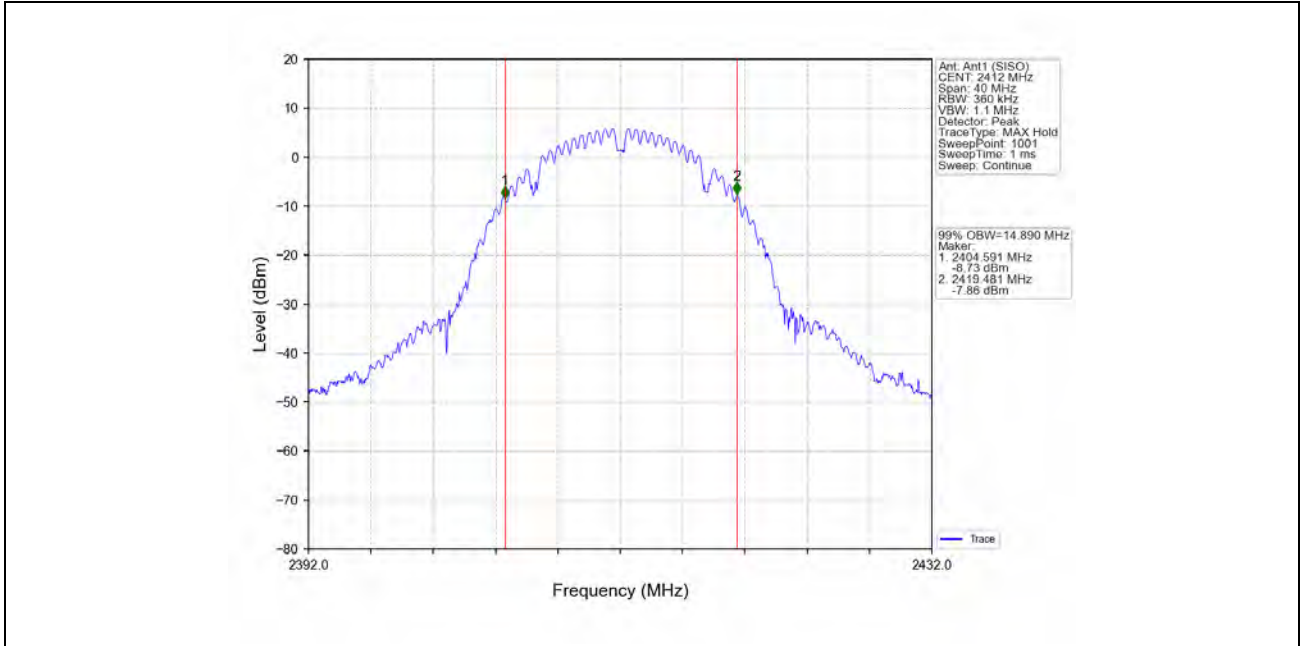
2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

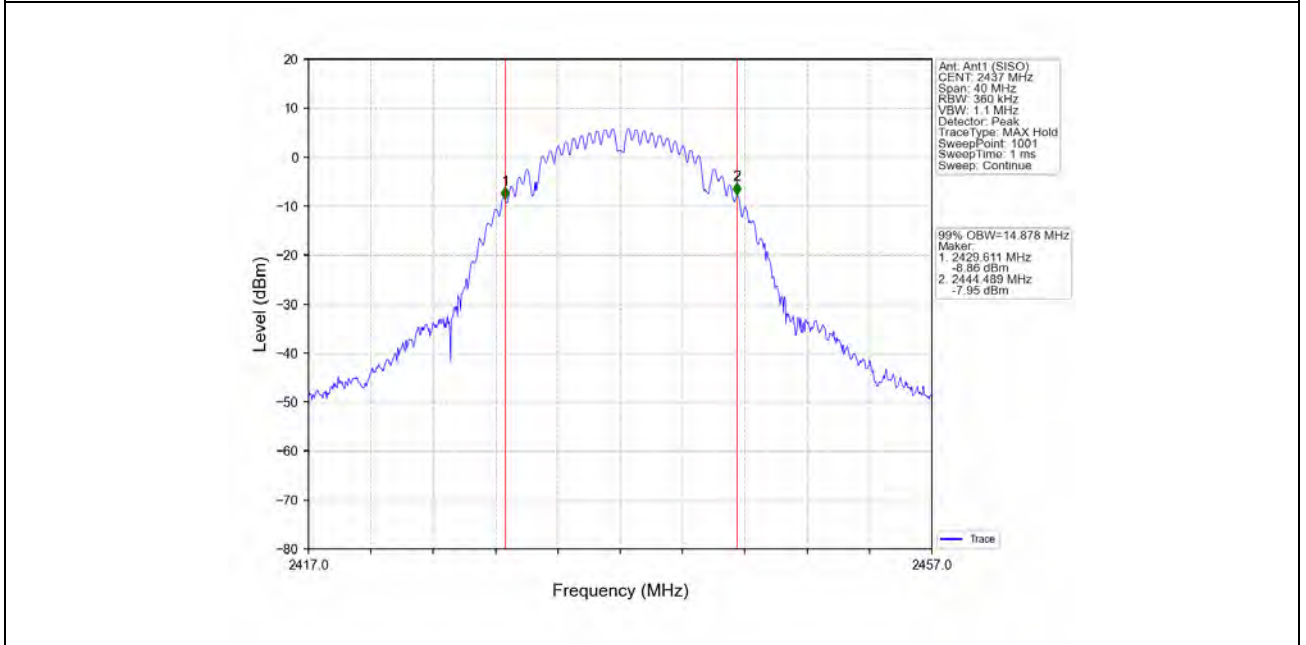


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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

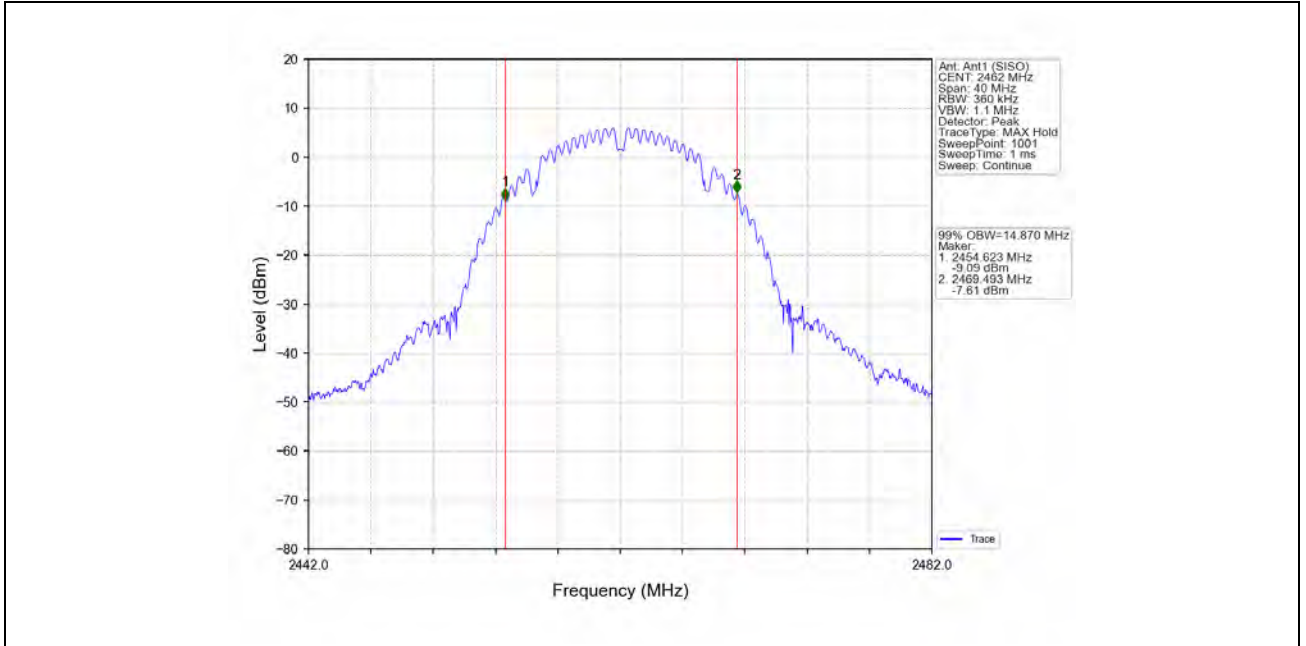


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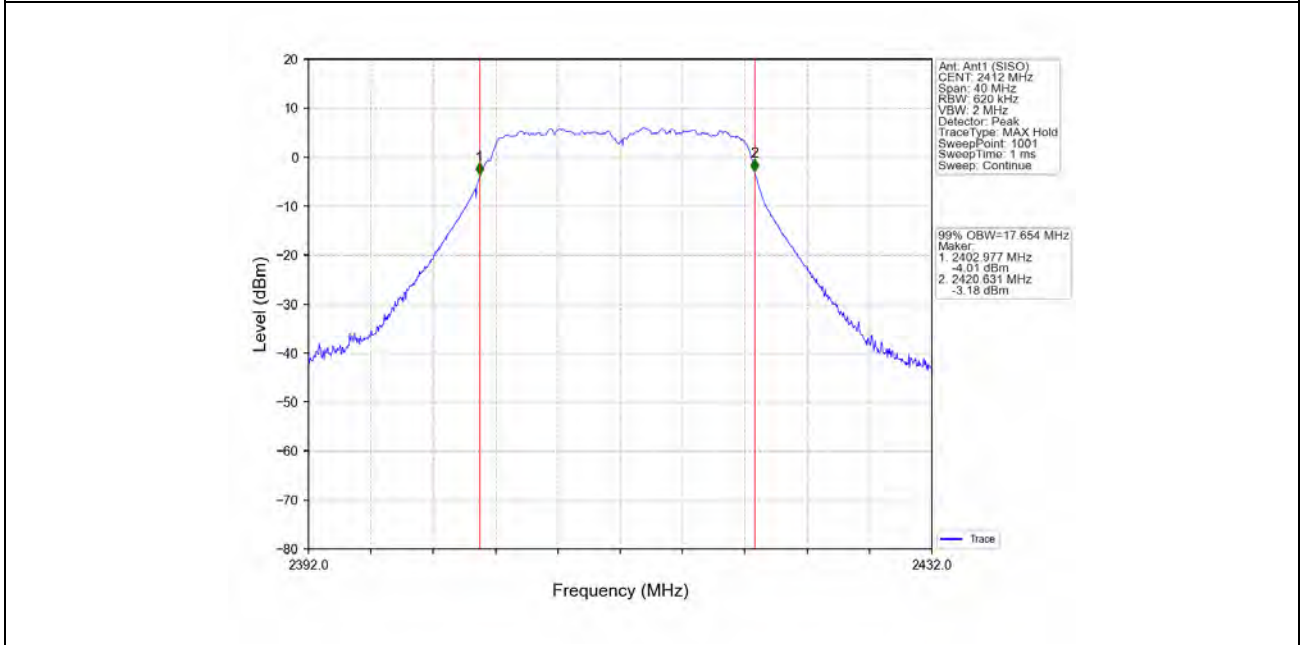
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

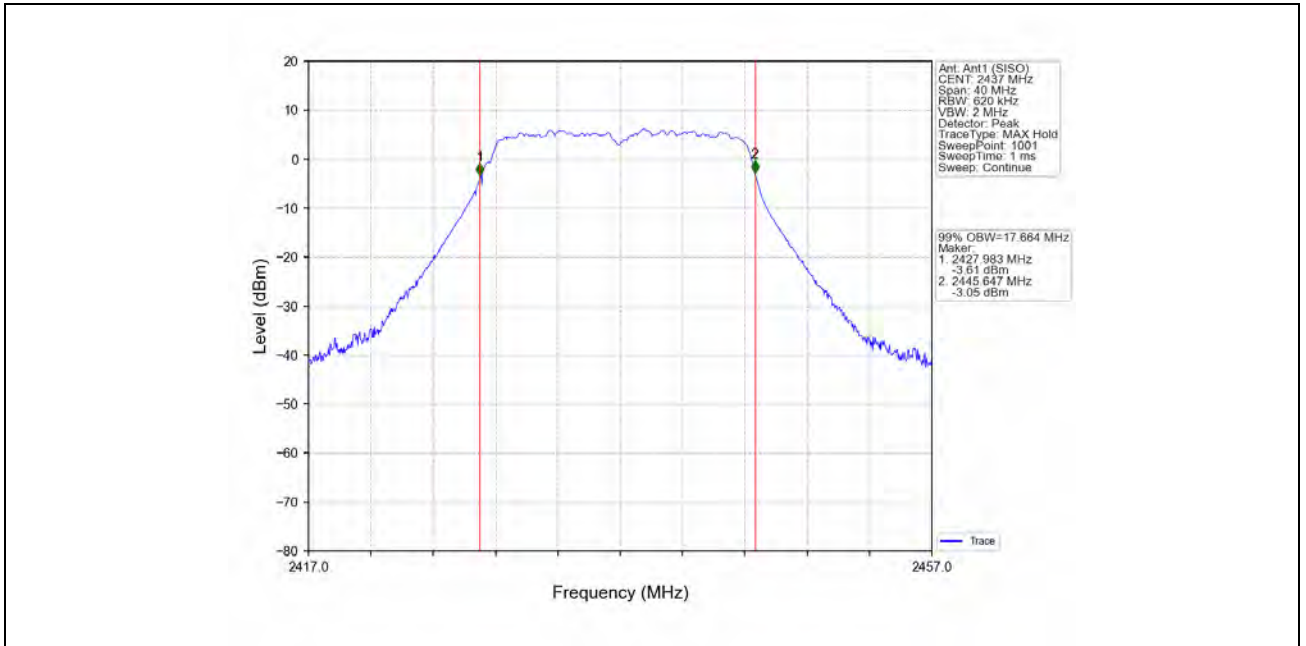


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

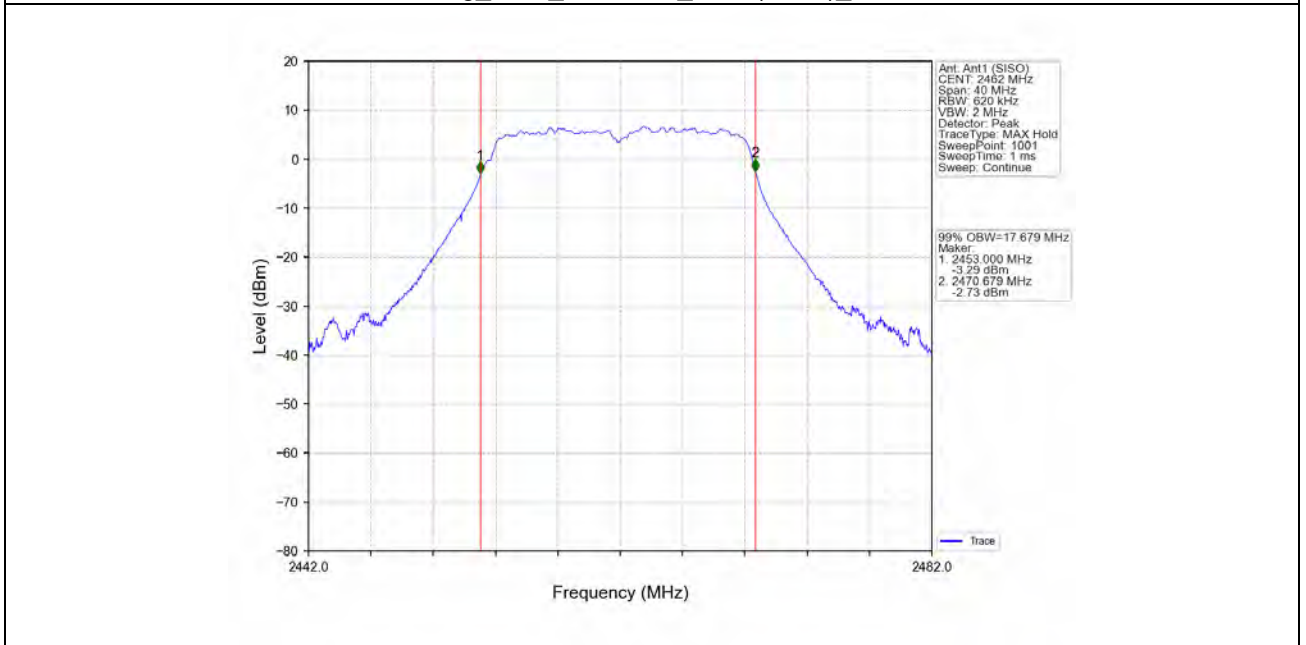


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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

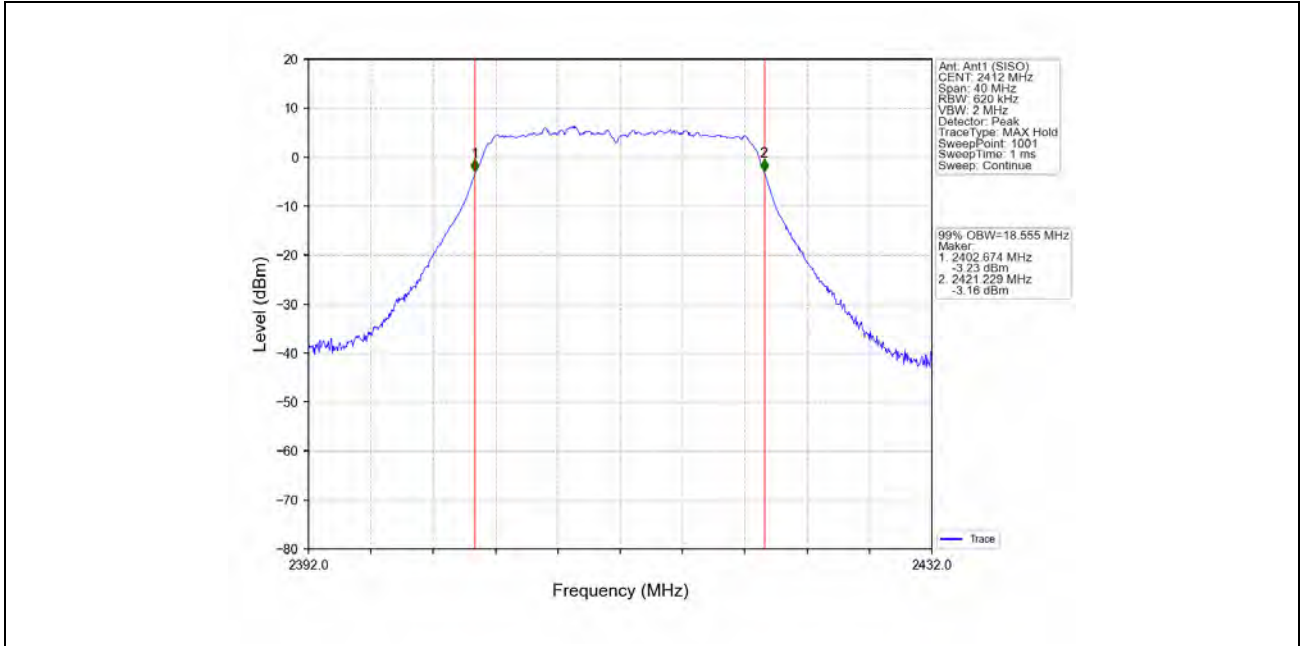


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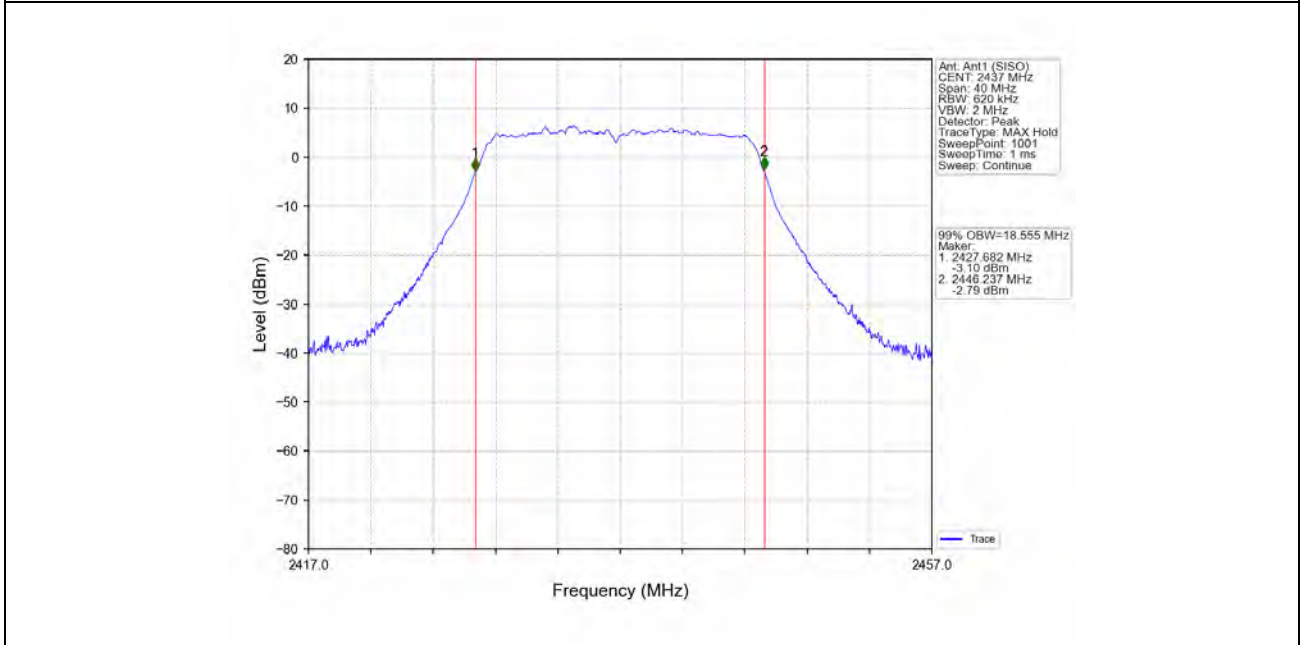
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

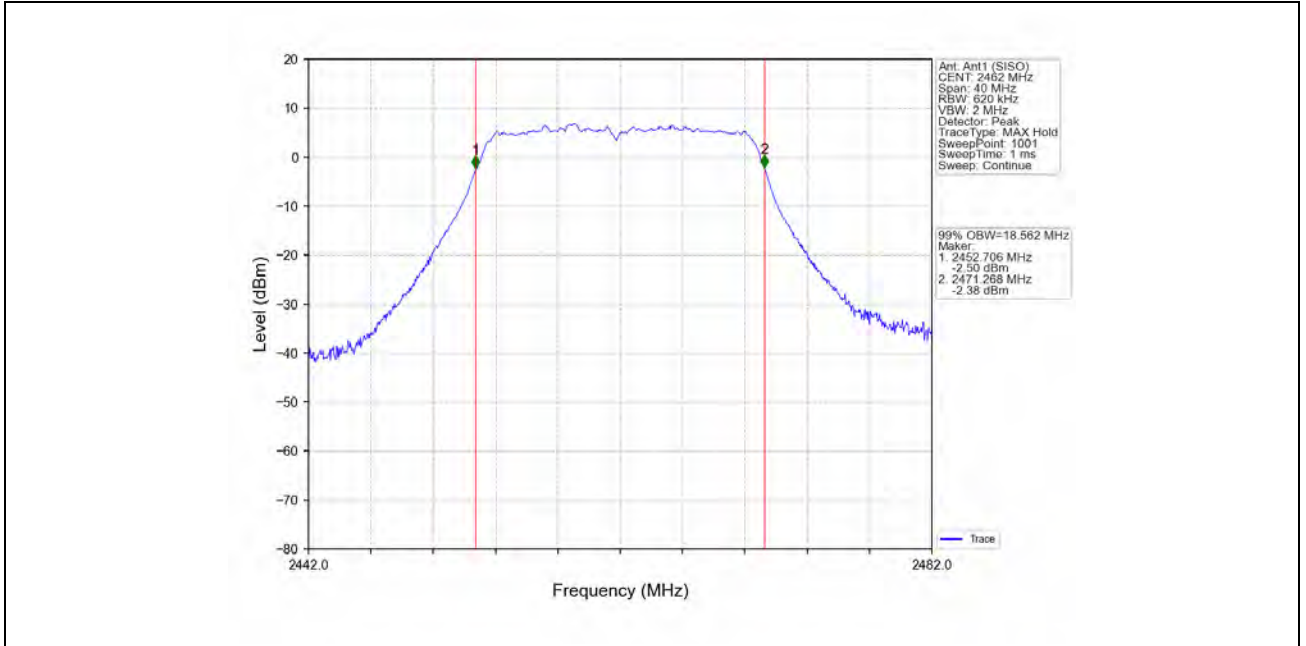


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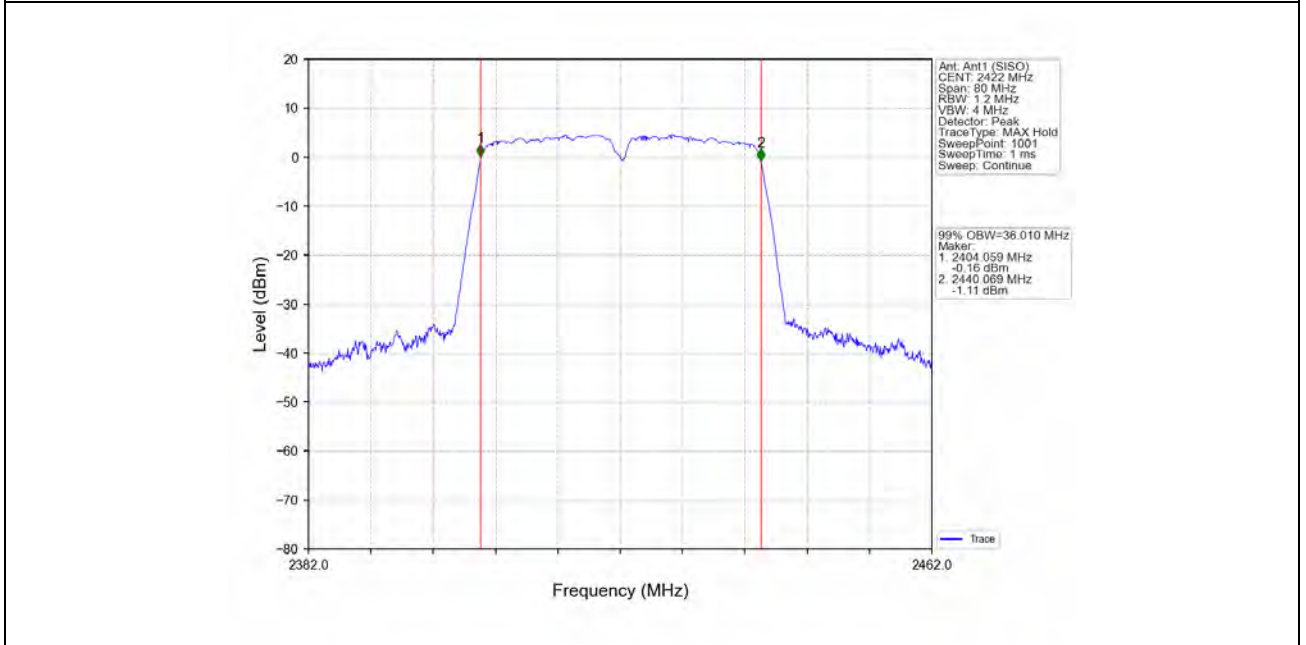
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



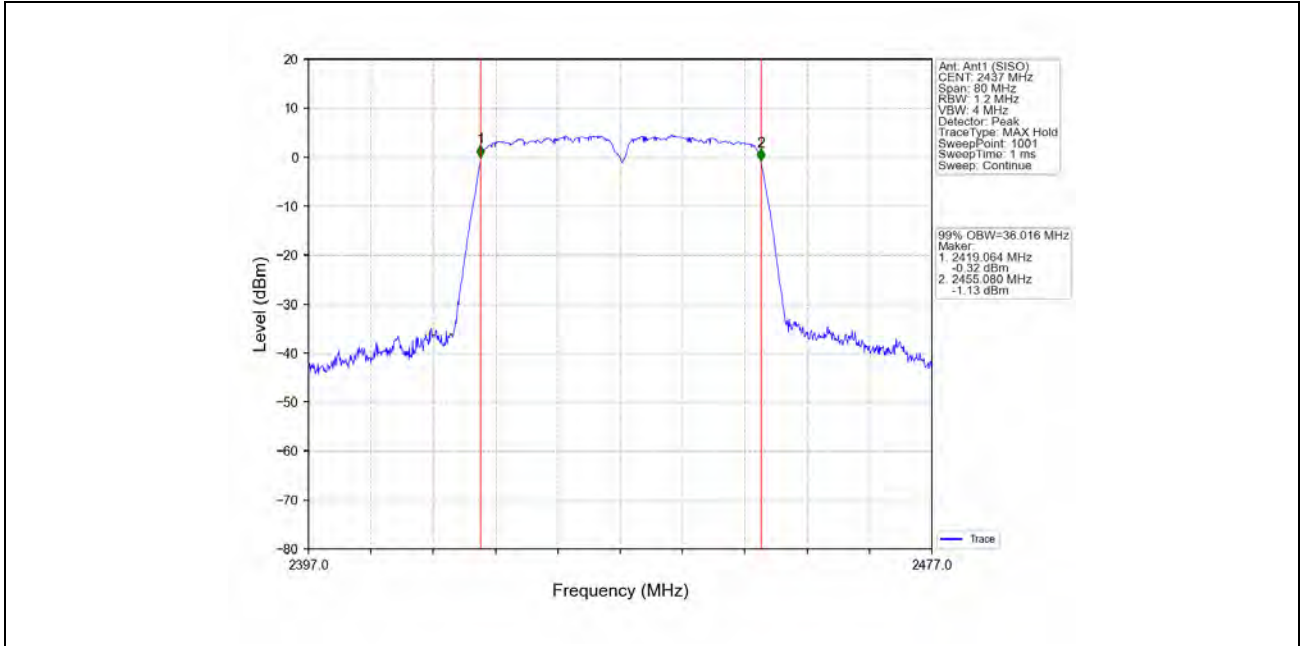
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



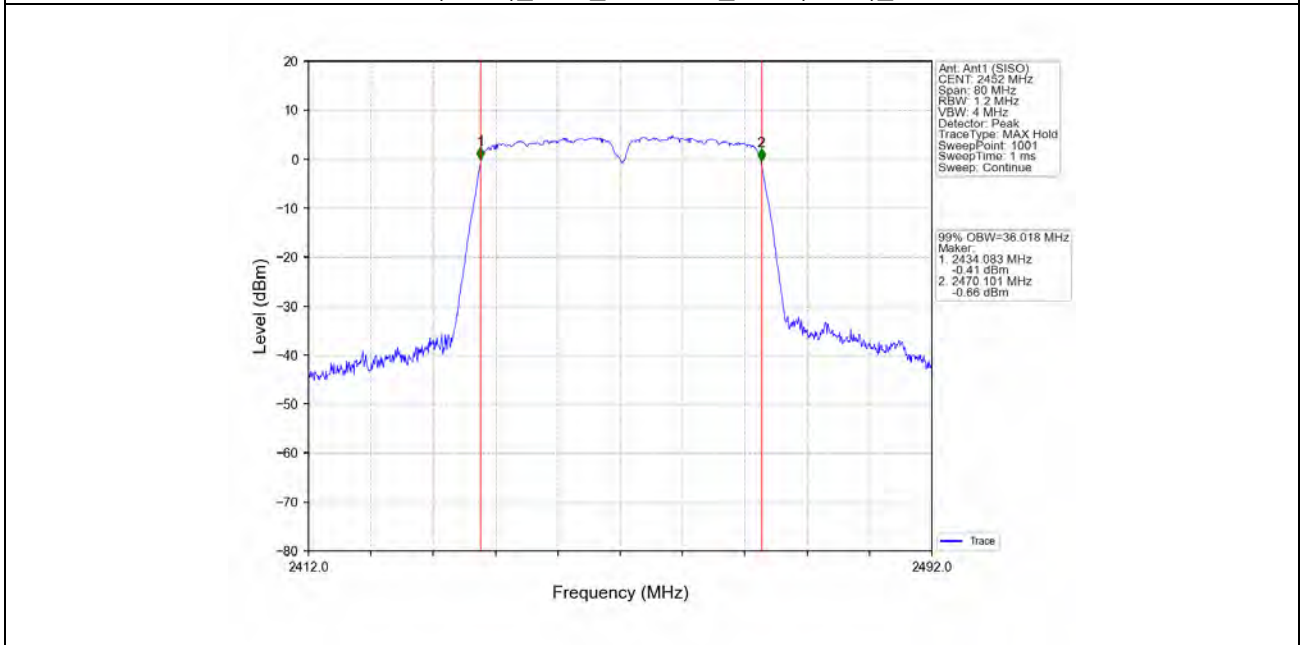
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2.2 6dB BW

2.2.1 Test Result

Mode	TX	Frequency	ANT	6dB Bandwidth (MHz)	Verdict
------	----	-----------	-----	---------------------	---------



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000192902

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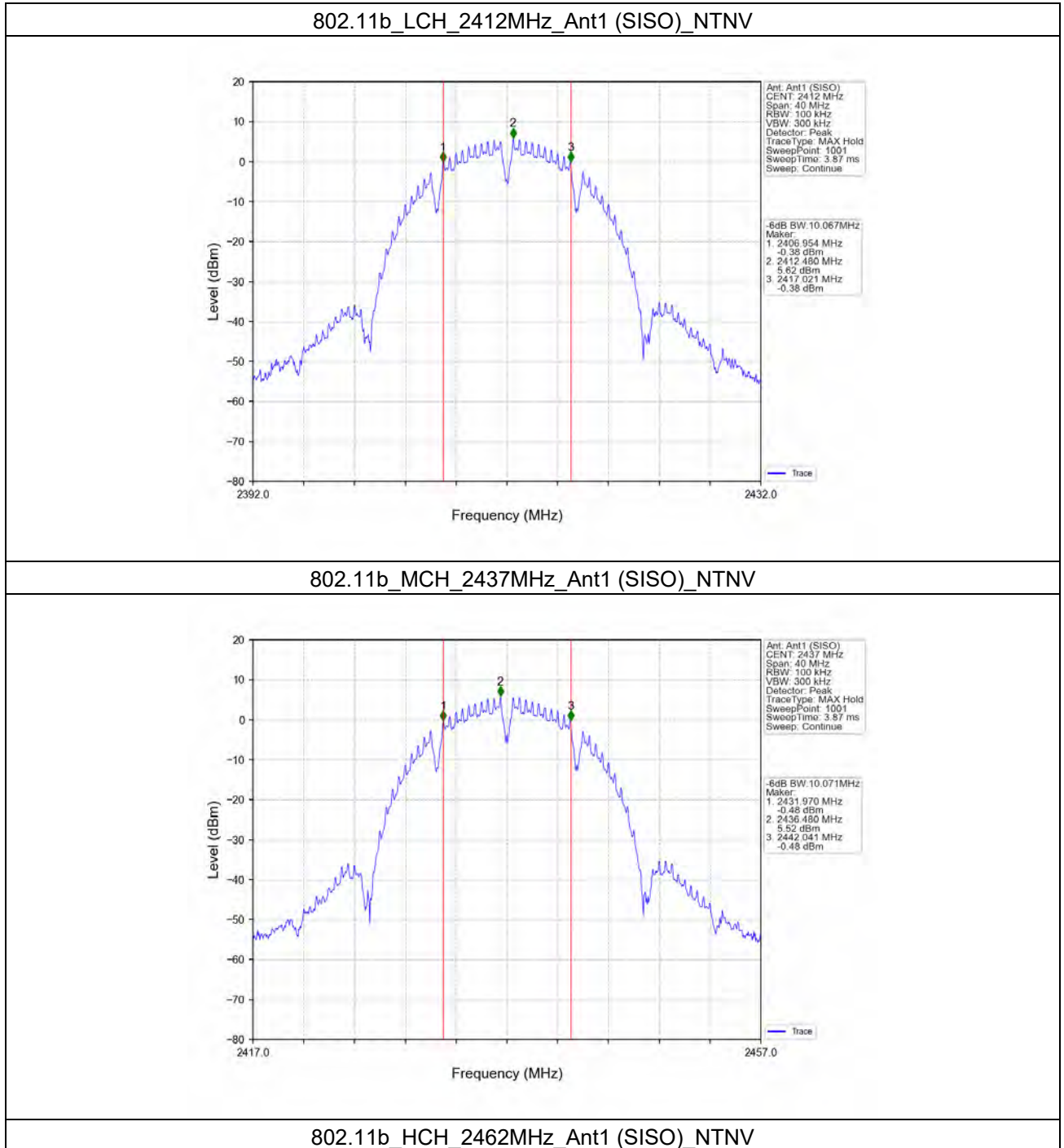
	Type	(MHz)		Result	Limit	
802.11b	SISO	2412	1	10.067	>=0.5	Pass
		2437	1	10.071	>=0.5	Pass
		2462	1	10.089	>=0.5	Pass
802.11g	SISO	2412	1	16.566	>=0.5	Pass
		2437	1	16.567	>=0.5	Pass
		2462	1	16.566	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.747	>=0.5	Pass
		2437	1	17.795	>=0.5	Pass
		2462	1	17.746	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.418	>=0.5	Pass
		2437	1	36.426	>=0.5	Pass
		2452	1	36.431	>=0.5	Pass



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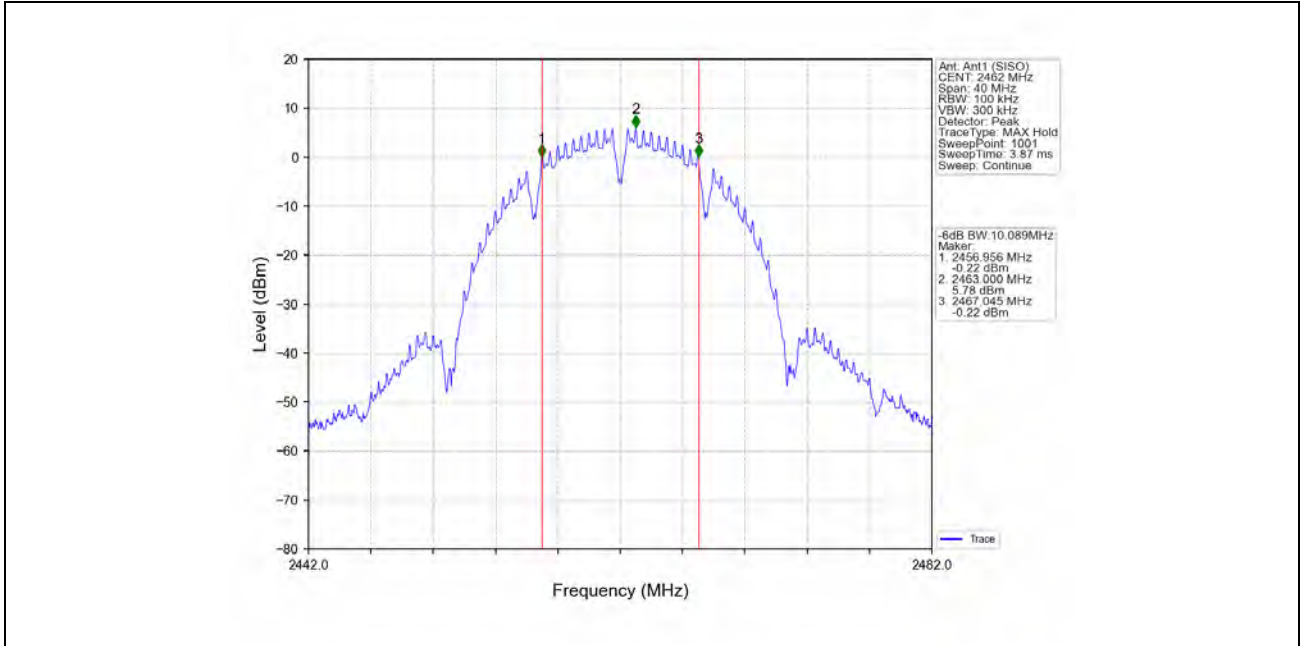
2.2.2 Test Graph



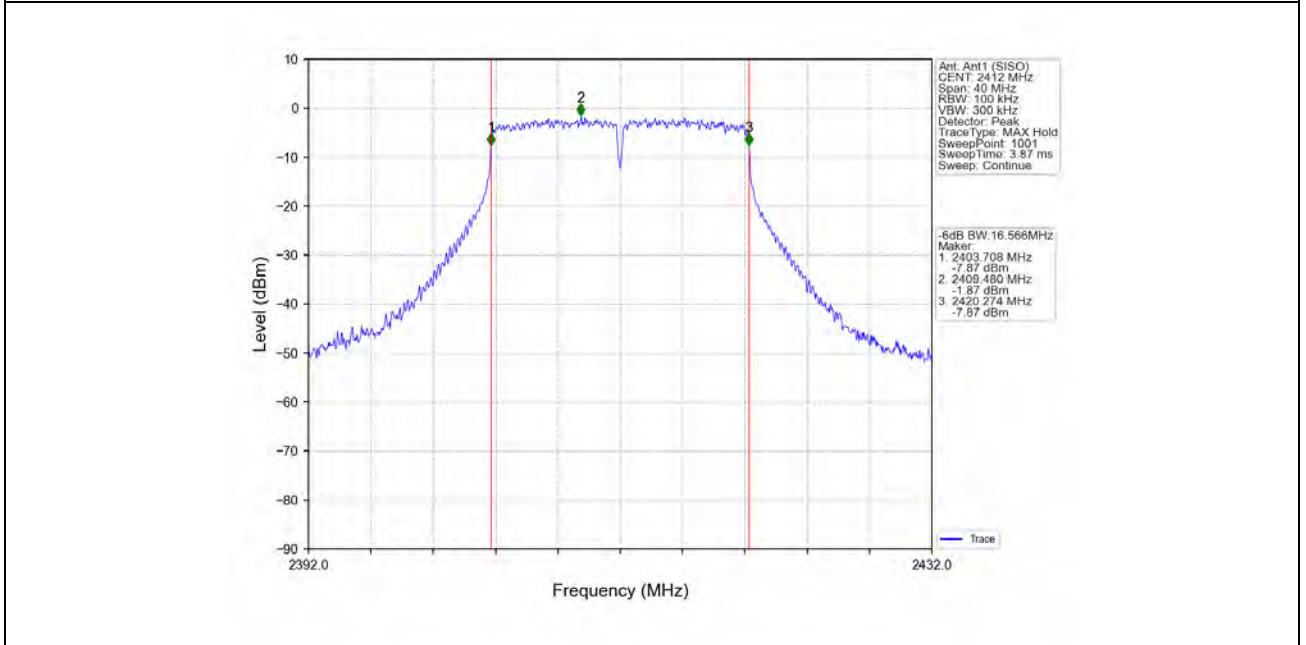
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



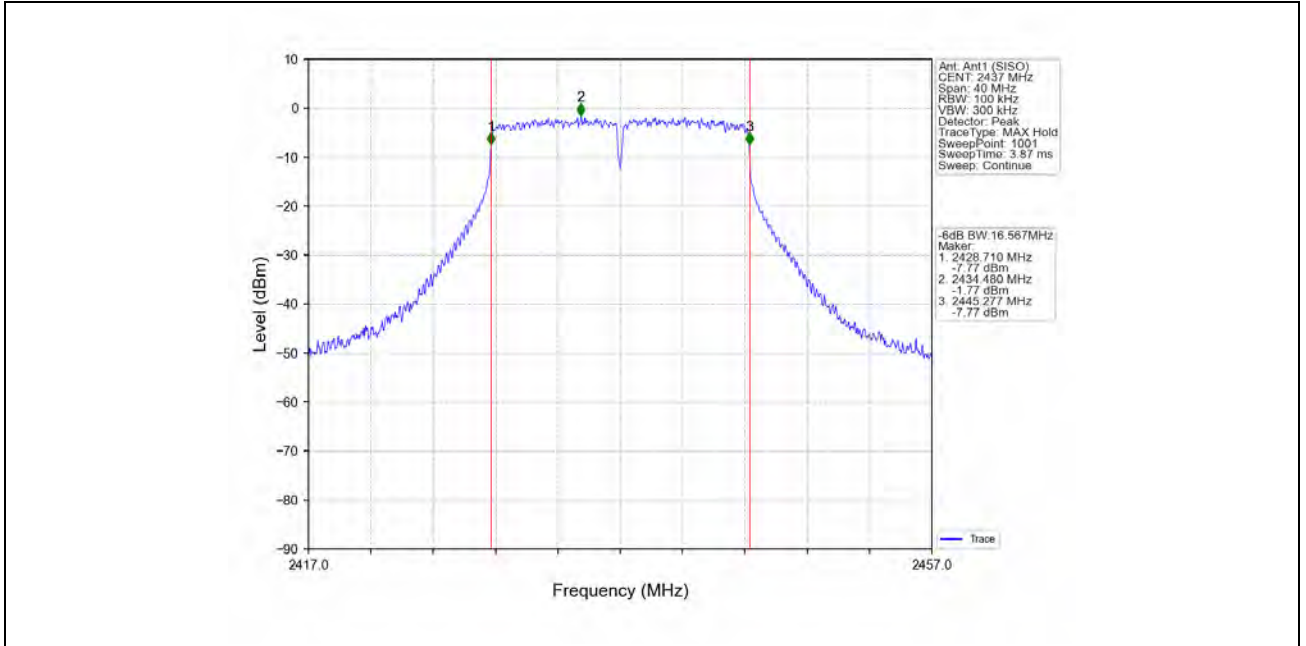
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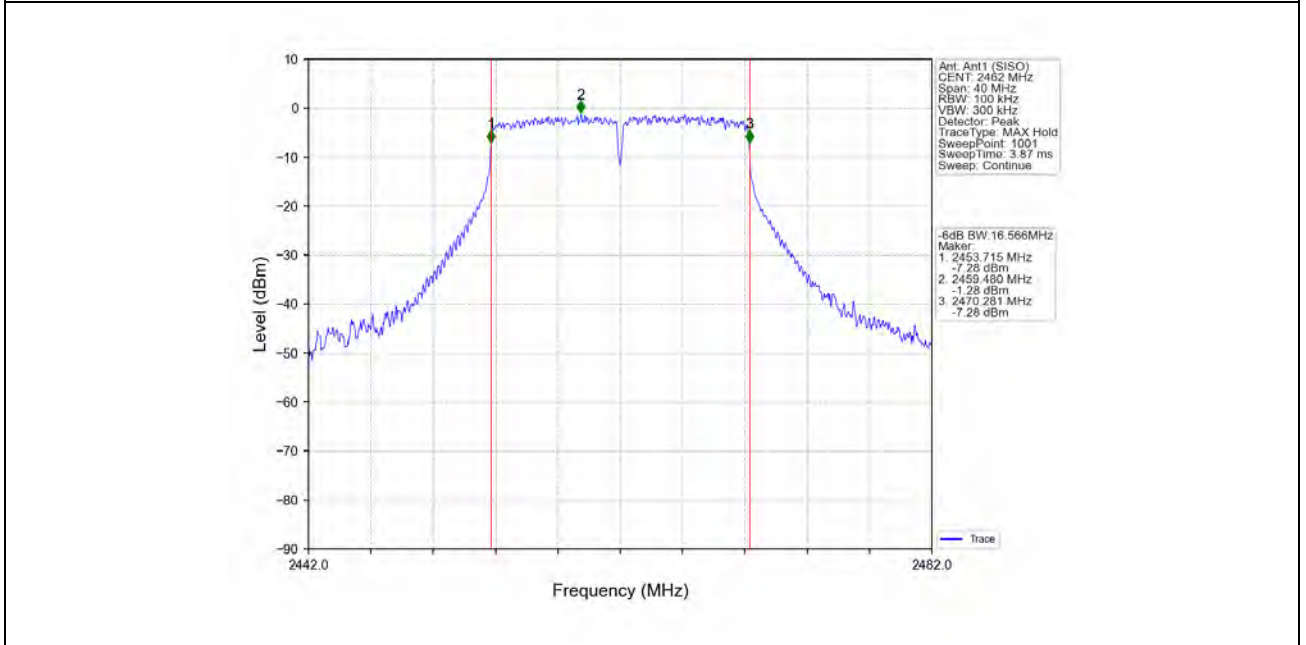
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



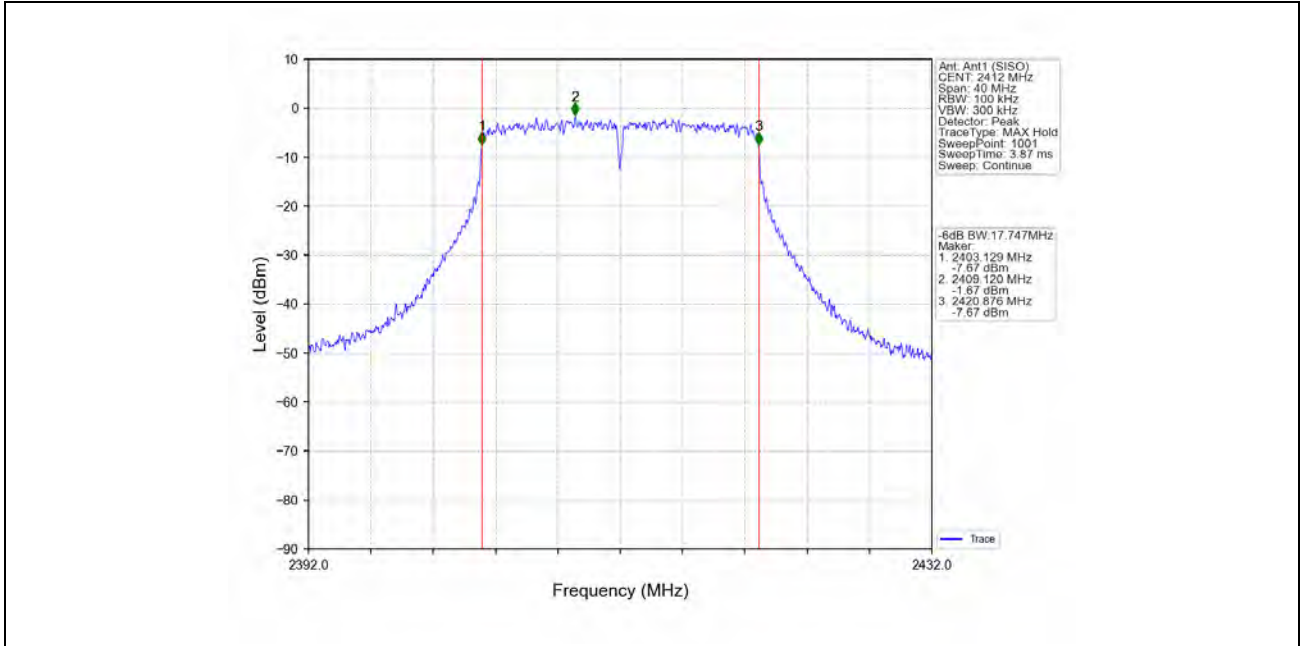
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



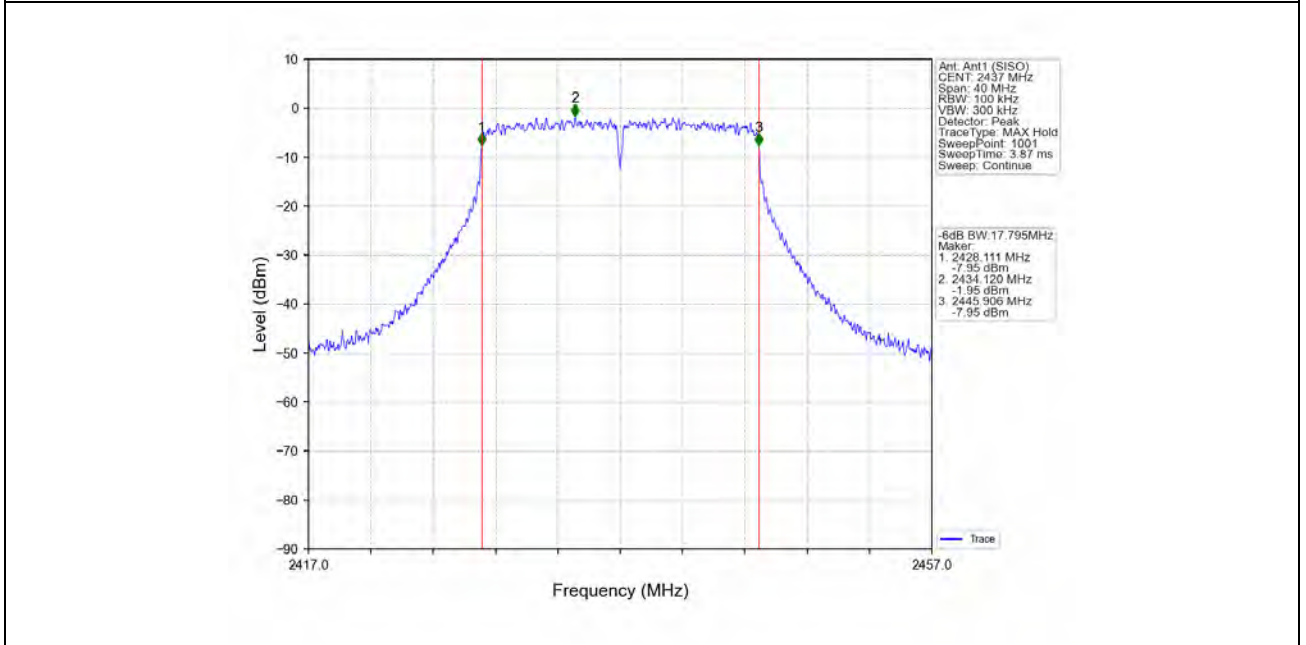
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

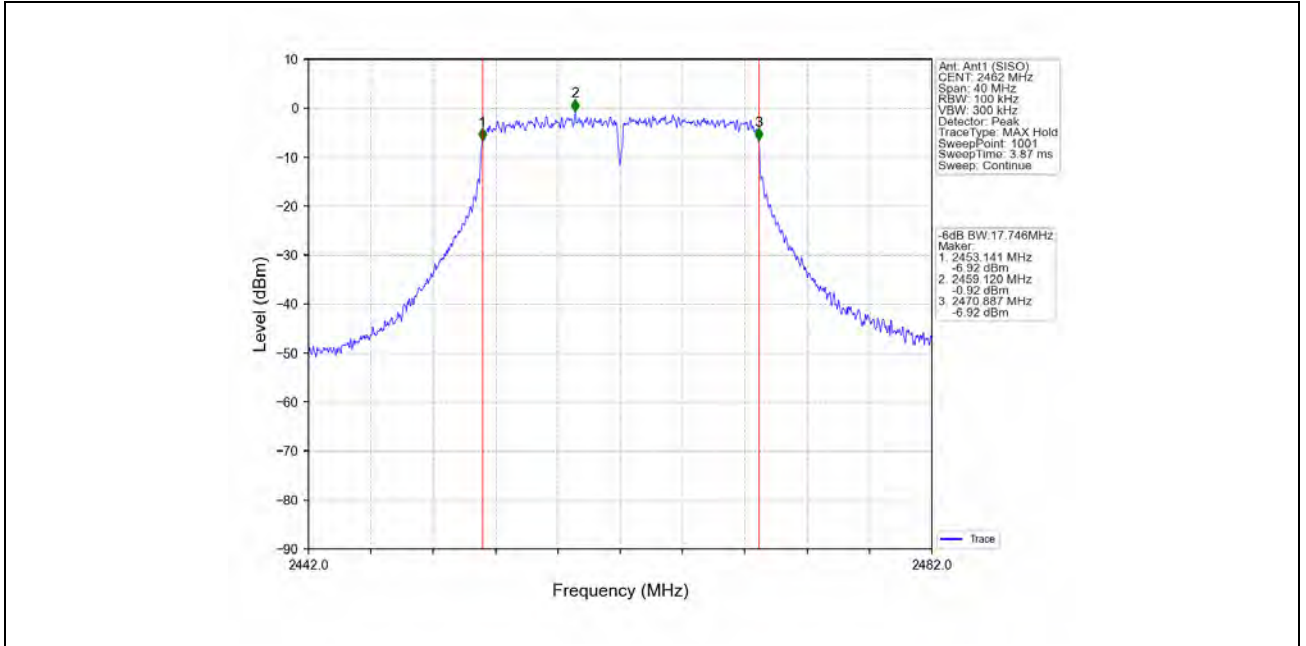


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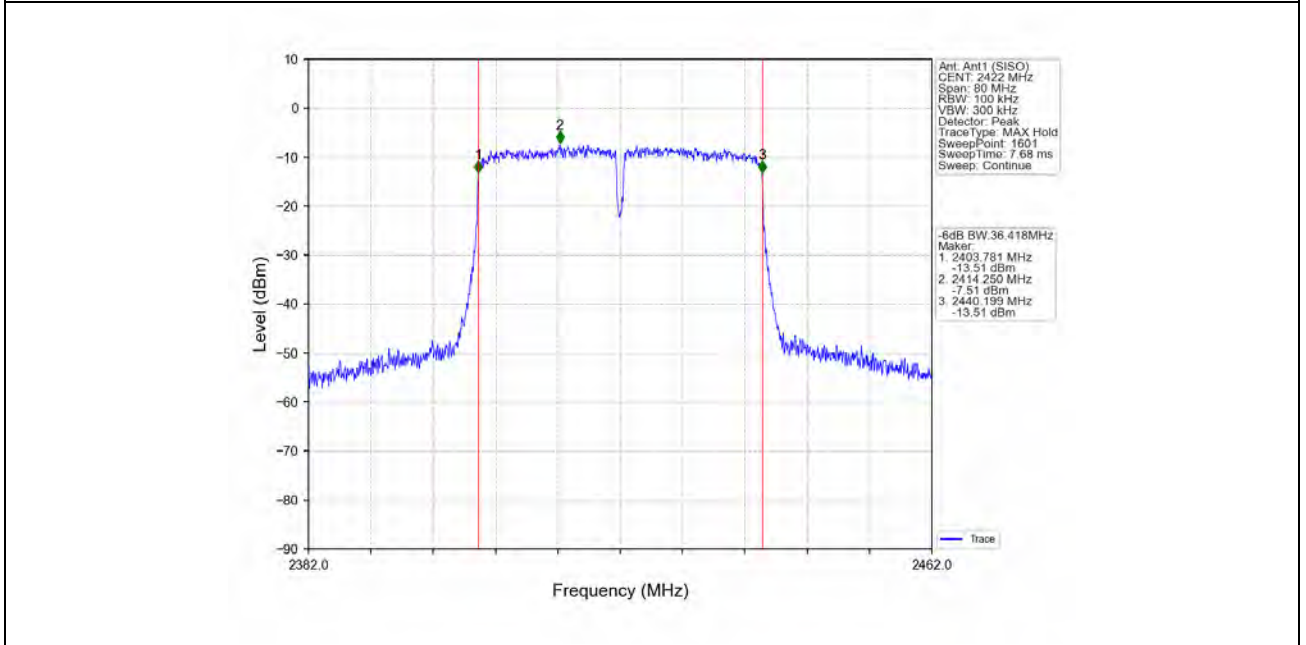
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

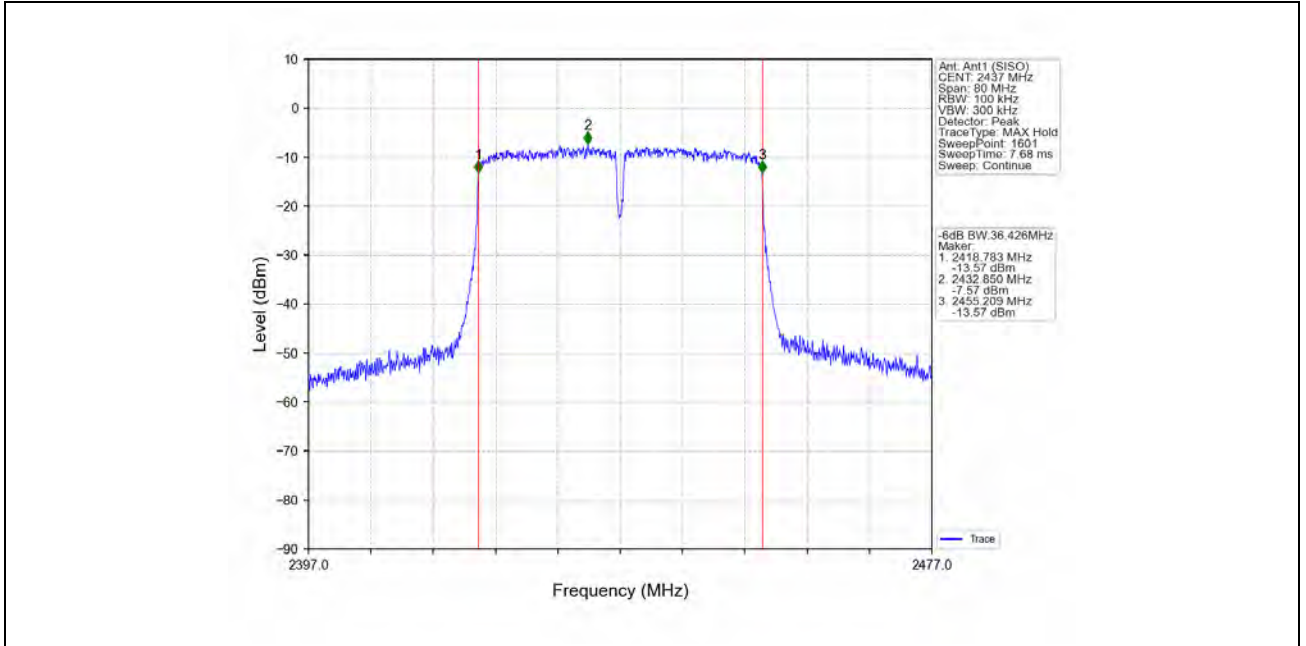


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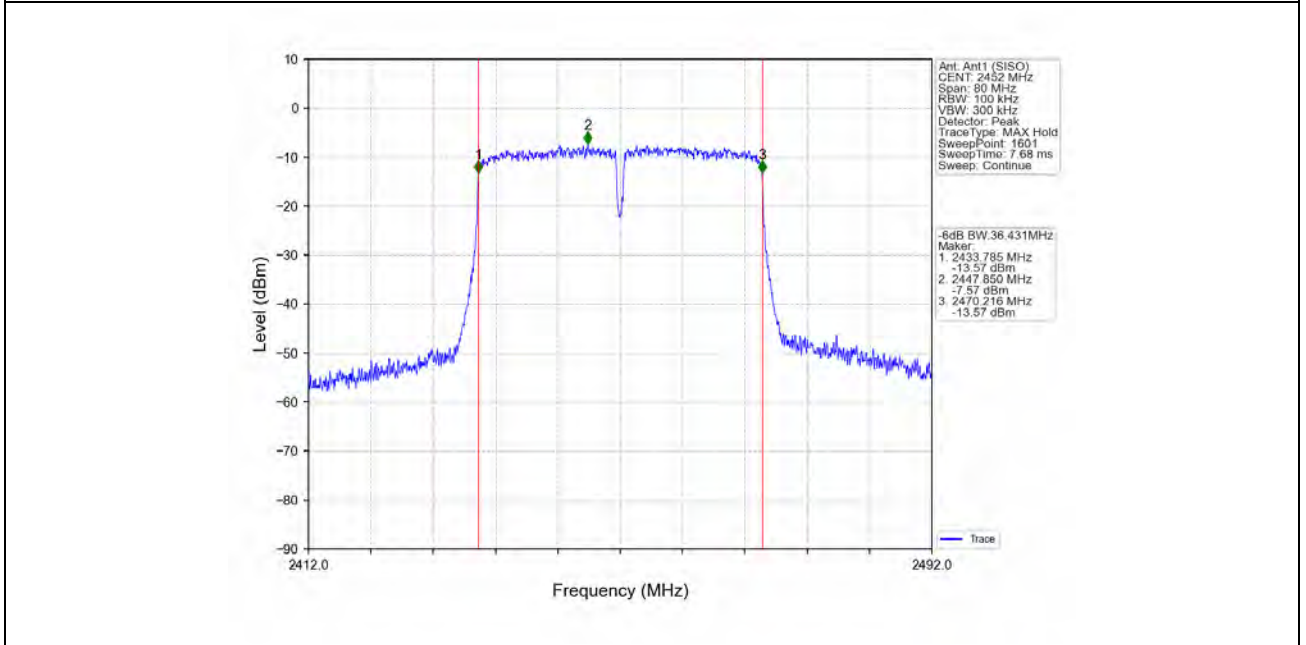
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	14.13	<=30	Pass
		2437	14.07	<=30	Pass
		2462	14.40	<=30	Pass
802.11g	SISO	2412	12.23	<=30	Pass
		2437	12.35	<=30	Pass
		2462	12.86	<=30	Pass
802.11n (HT20)	SISO	2412	12.10	<=30	Pass
		2437	12.23	<=30	Pass
		2462	12.76	<=30	Pass
802.11n (HT40)	SISO	2422	9.50	<=30	Pass
		2437	9.41	<=30	Pass
		2452	9.52	<=30	Pass

Note1: Antenna g: Ant1: 2.85dBi;

3.1.2 Test Graph

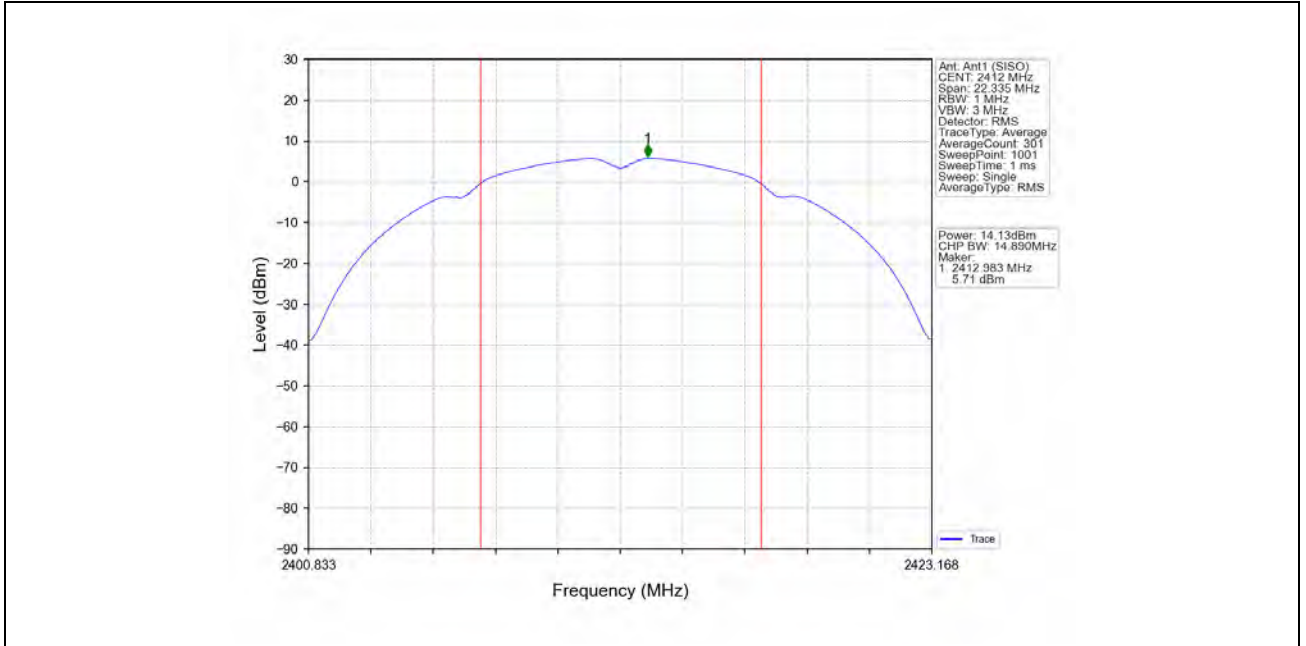
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



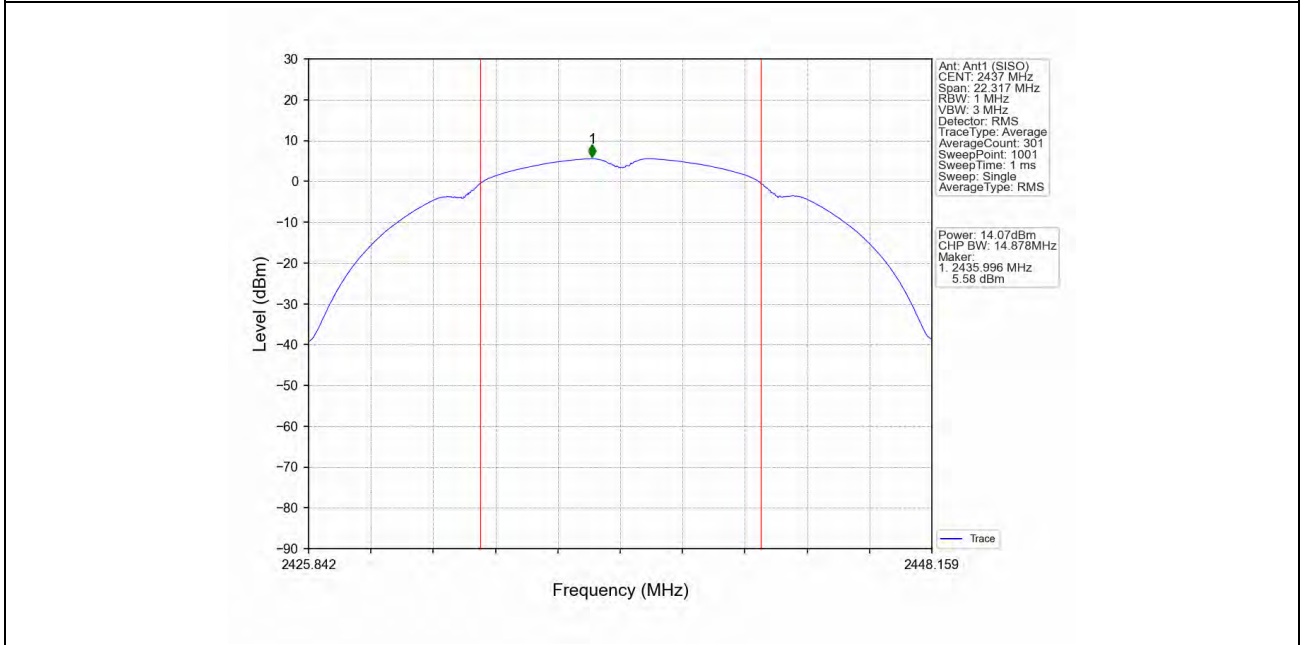
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

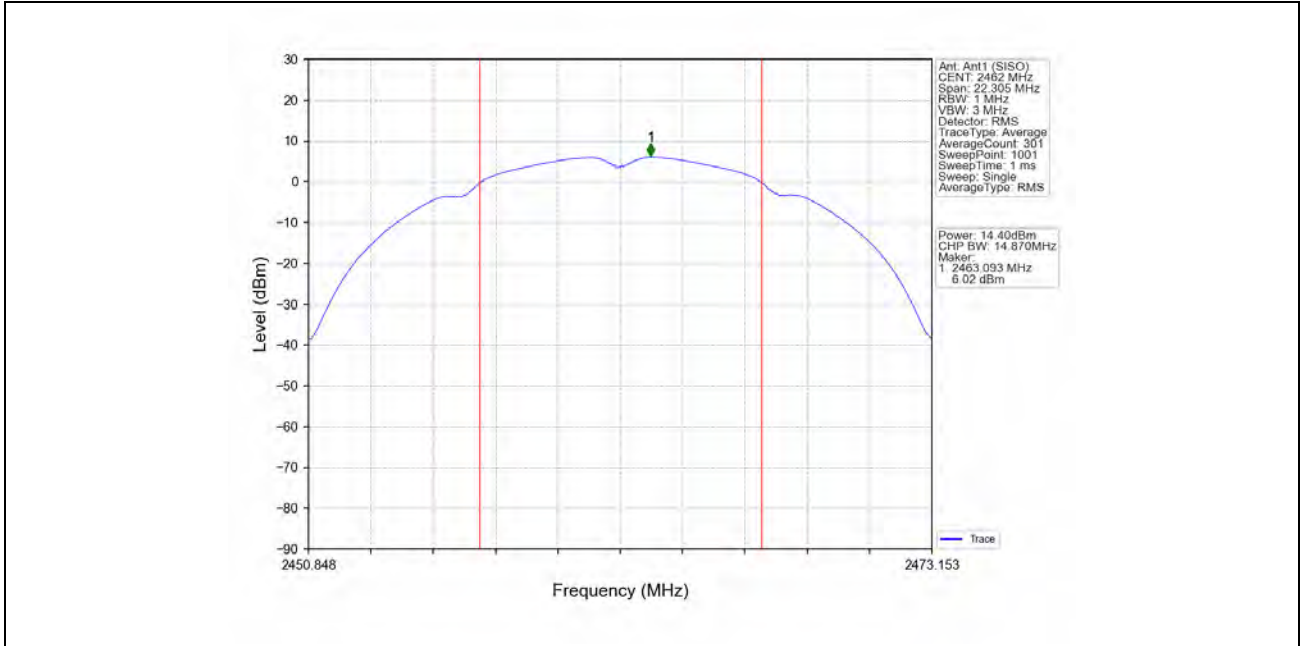


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

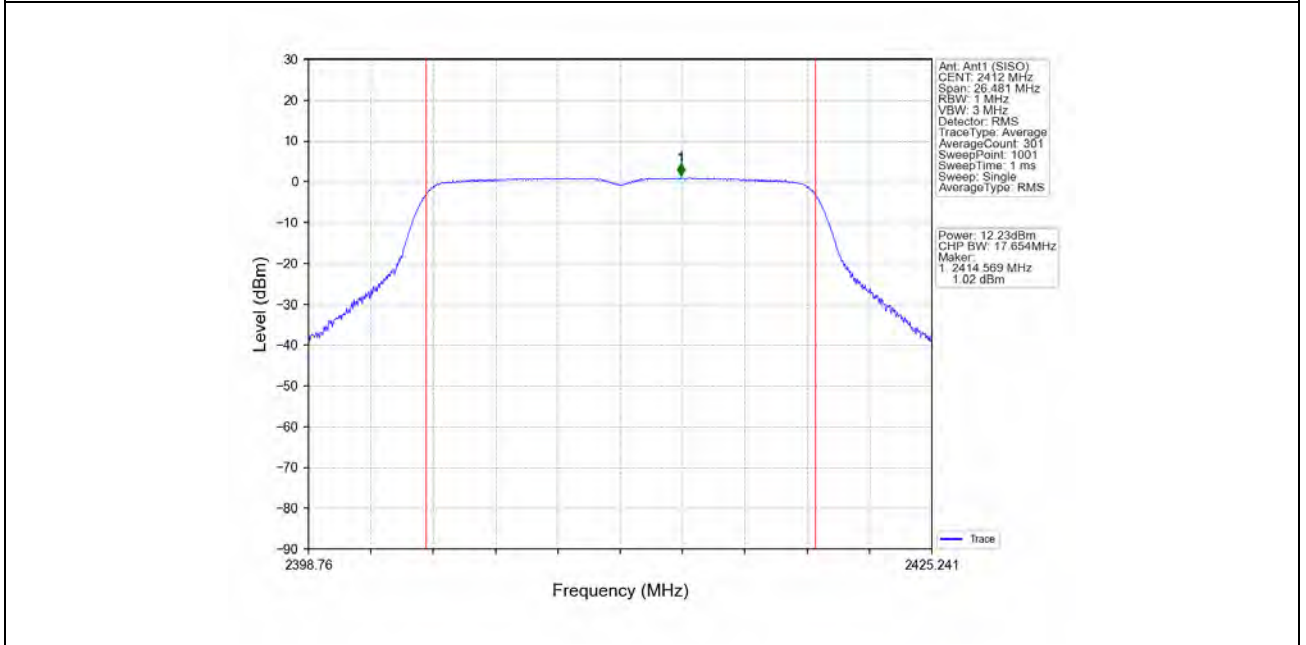


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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

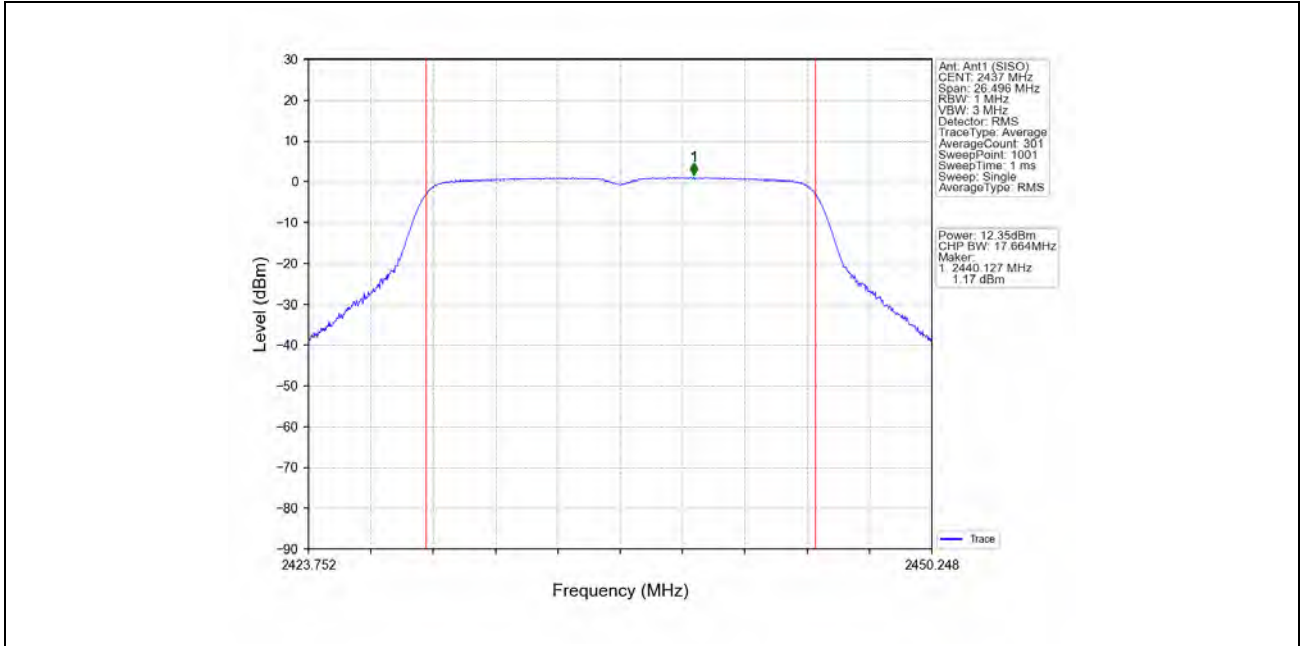


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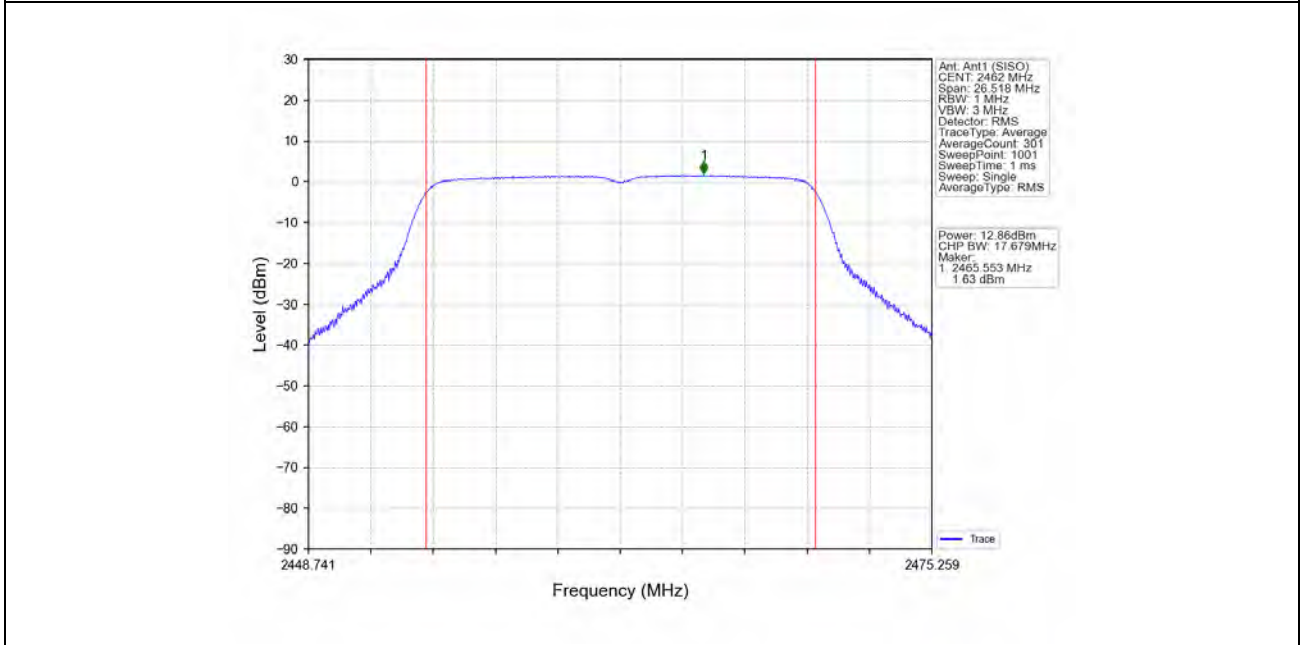


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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

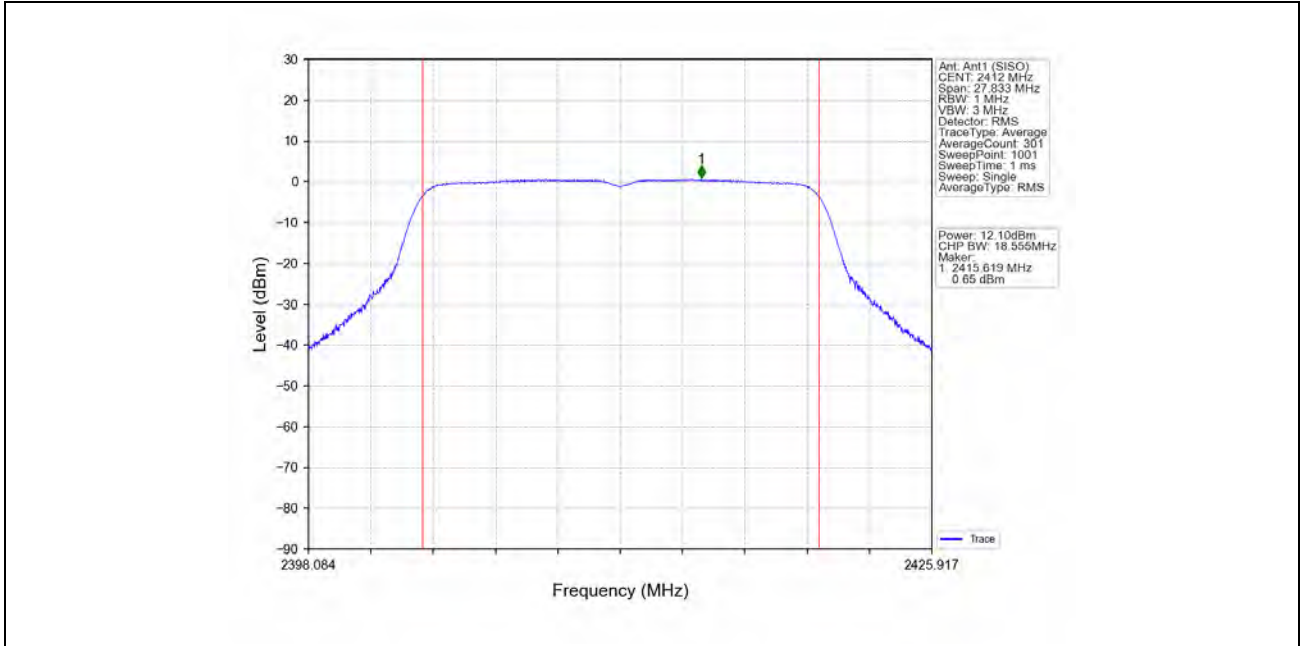


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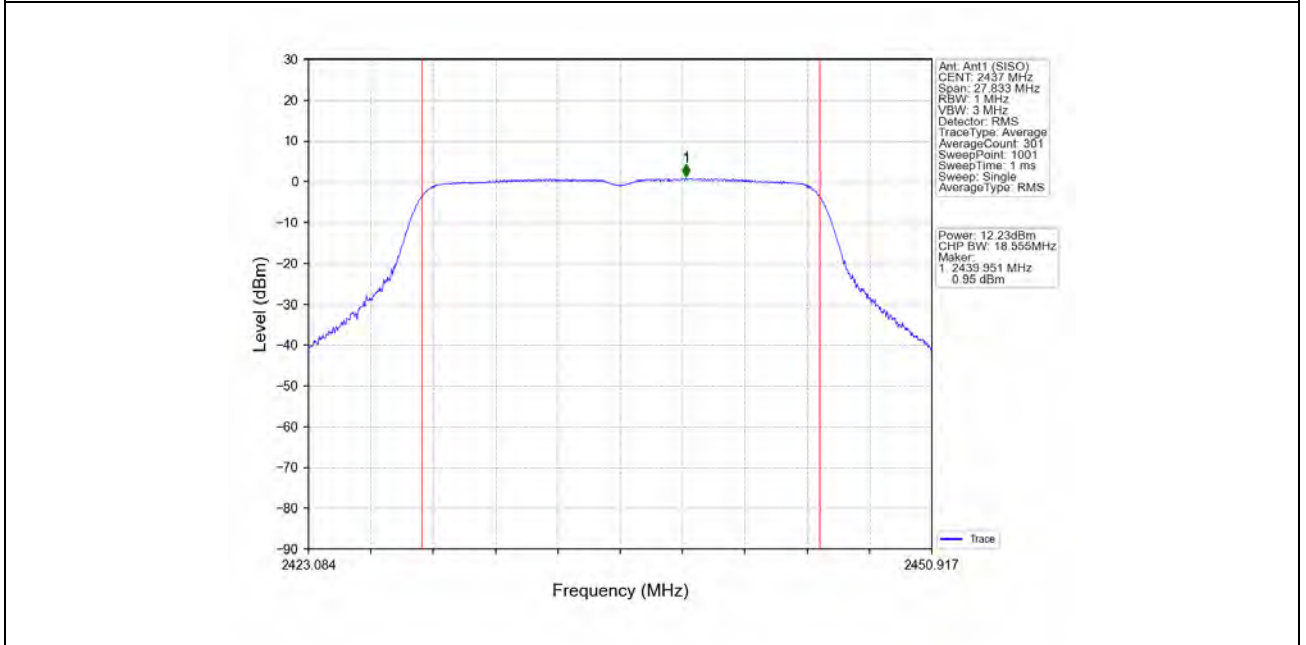
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

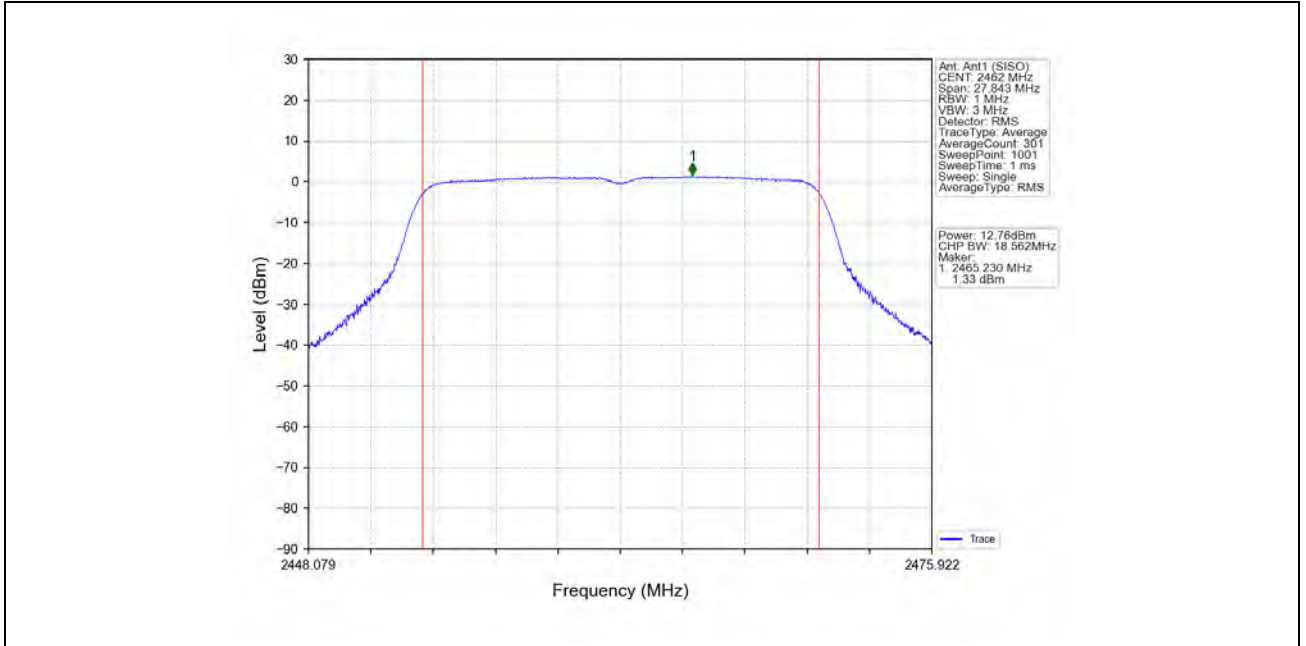


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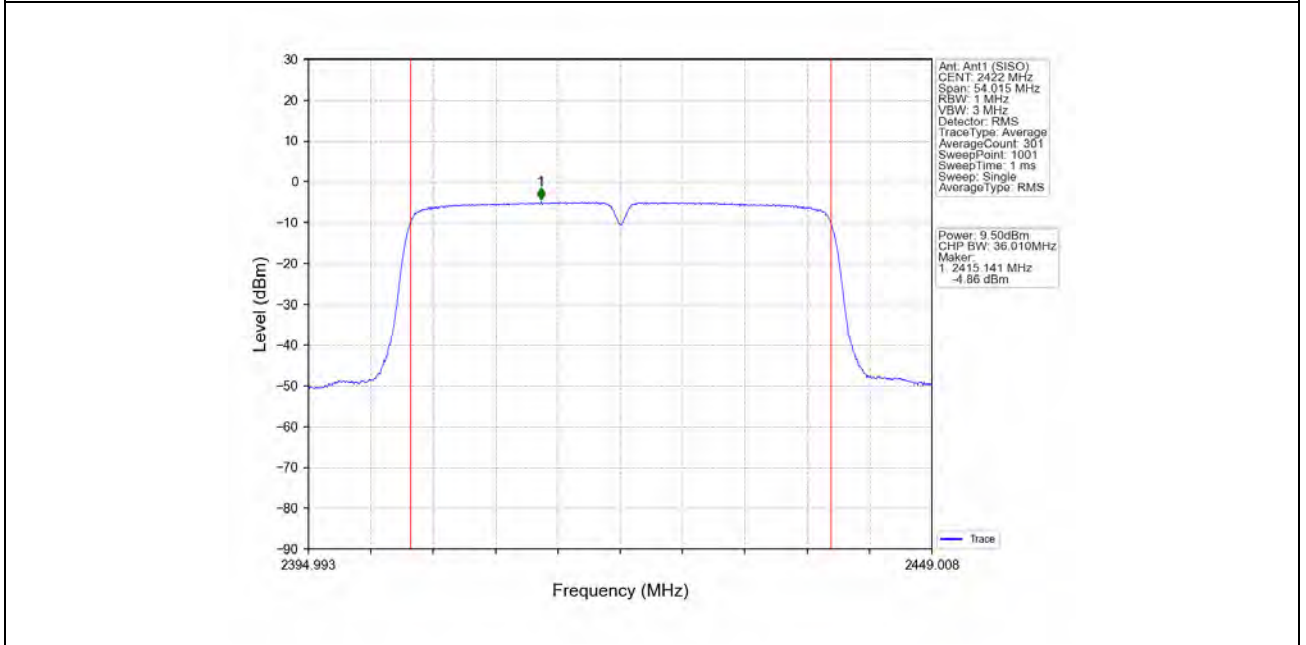
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

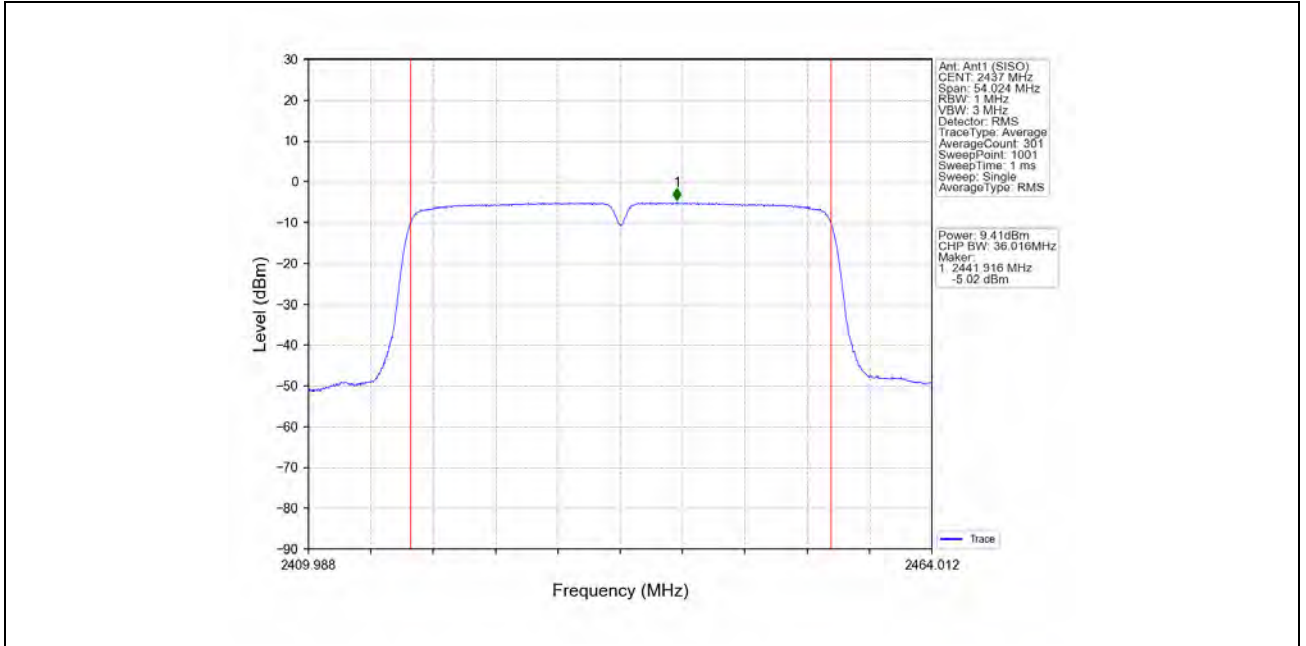


802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

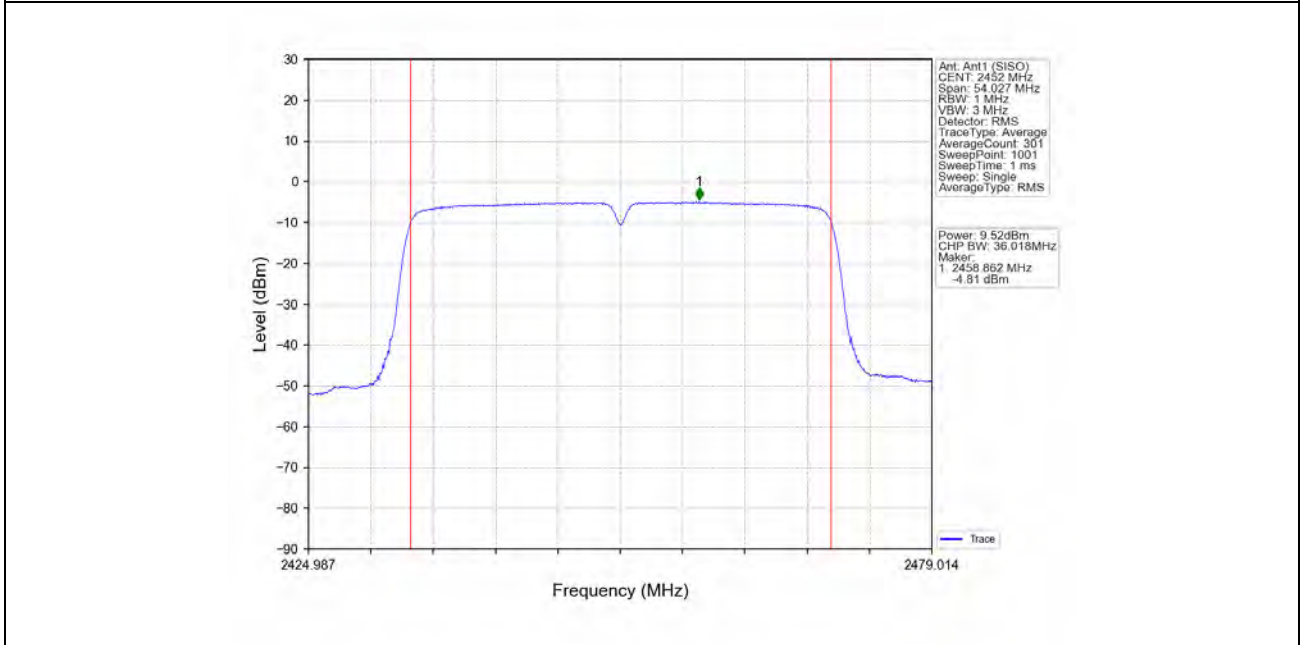


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4. Maximum Power Spectral Density

4.1 PSD



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4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-8.22	<=8	Pass
		2437	-9.34	<=8	Pass
		2462	-9.46	<=8	Pass
802.11g	SISO	2412	-16.01	<=8	Pass
		2437	-16.26	<=8	Pass
		2462	-15.74	<=8	Pass
802.11n (HT20)	SISO	2412	-15.98	<=8	Pass
		2437	-15.80	<=8	Pass
		2462	-15.46	<=8	Pass
802.11n (HT40)	SISO	2422	-18.90	<=8	Pass
		2437	-21.39	<=8	Pass
		2452	-19.97	<=8	Pass

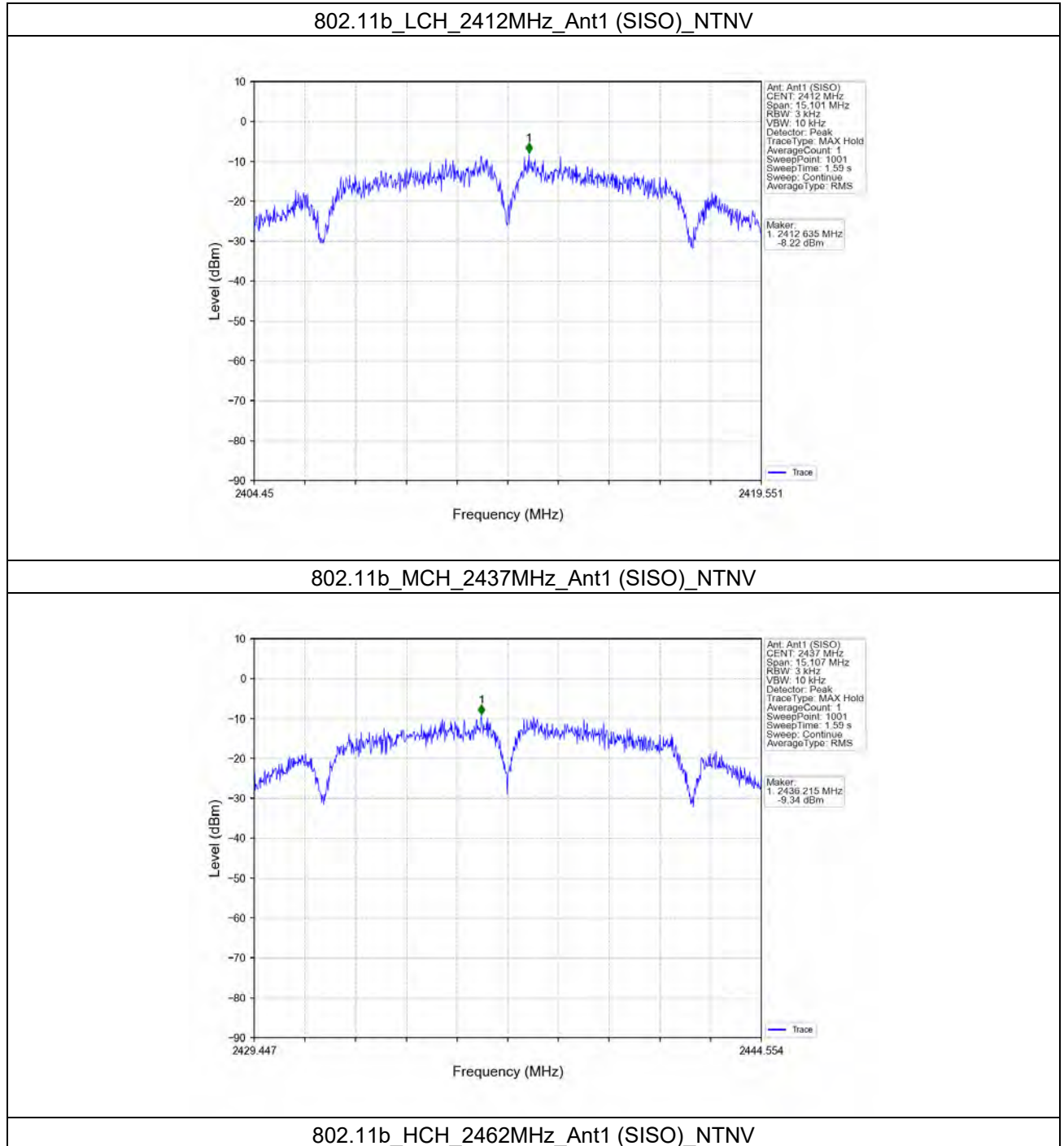
Note1: Antenna Gain: Ant1: 2.85dBi;



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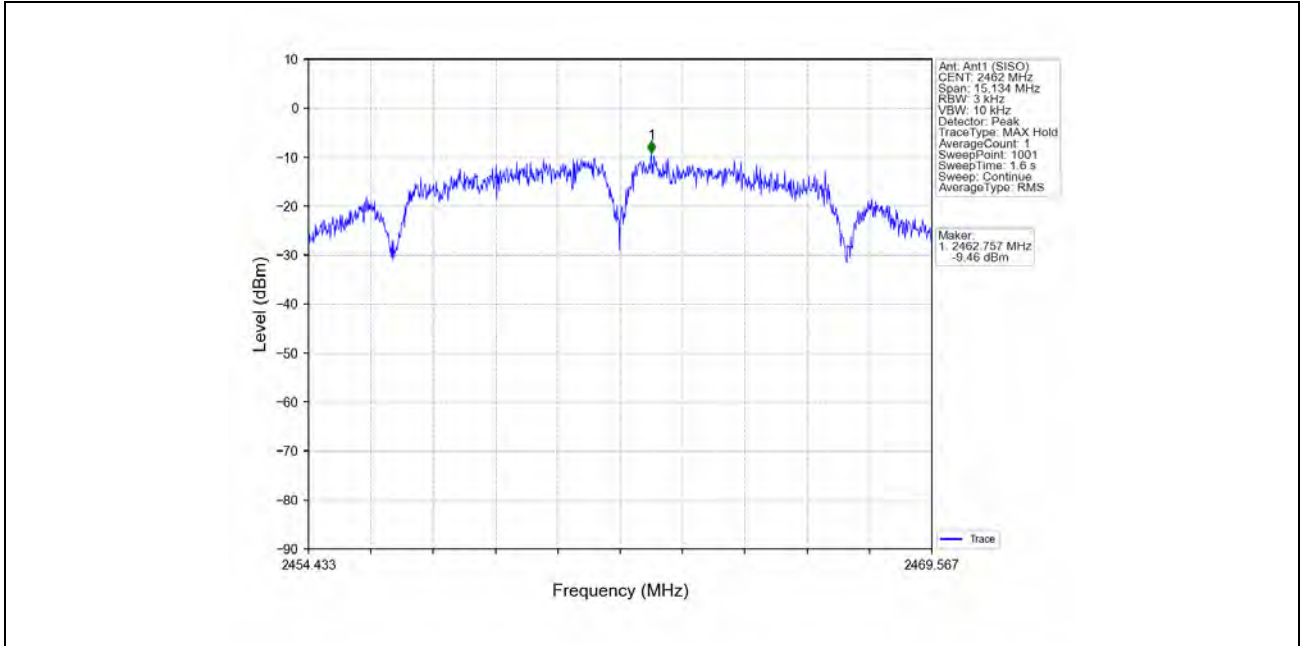
4.1.2 Test Graph



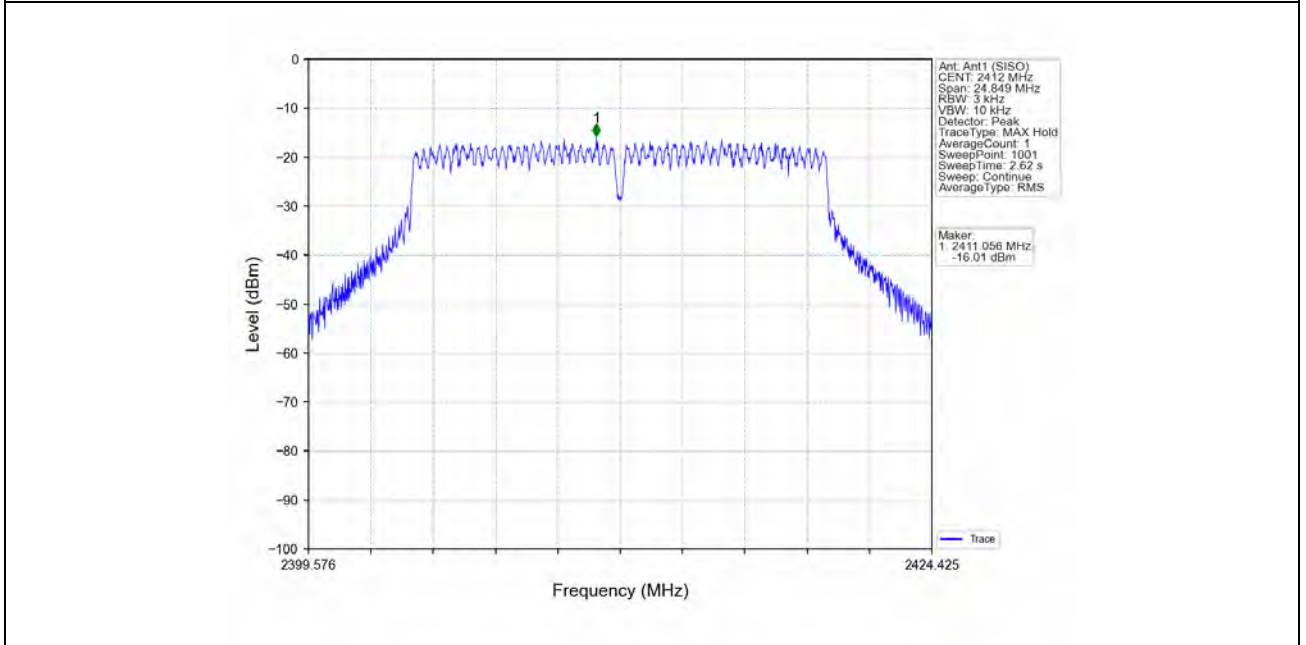
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

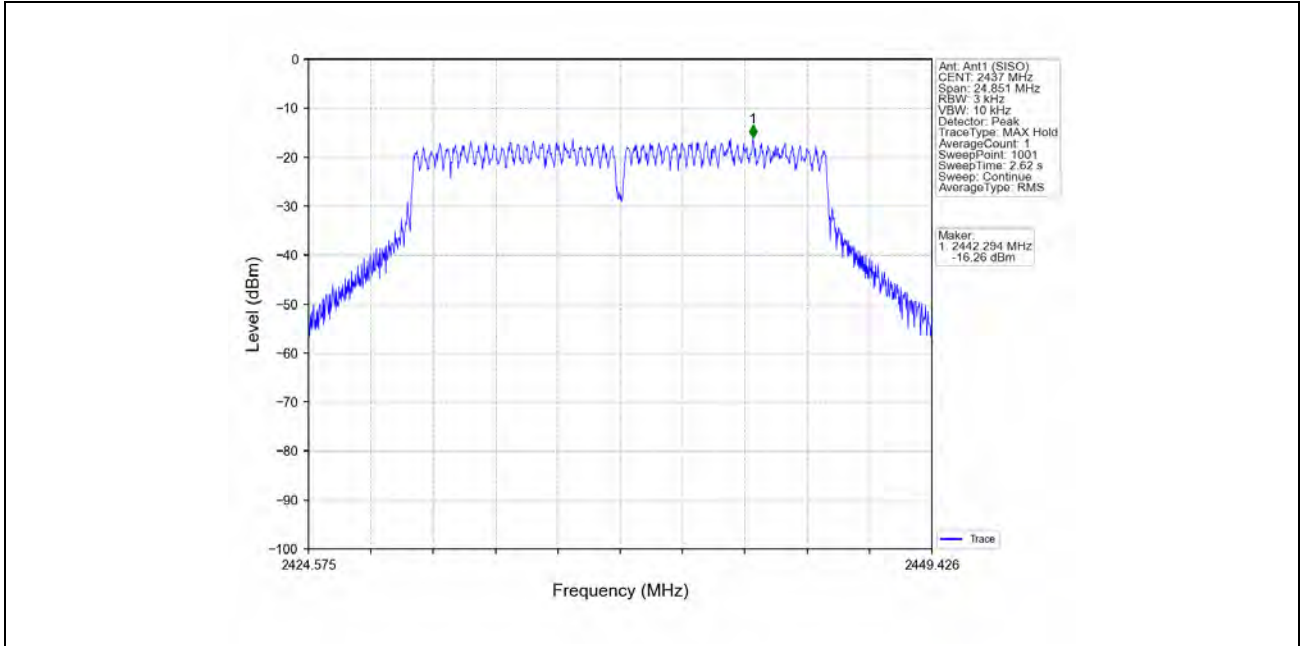


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

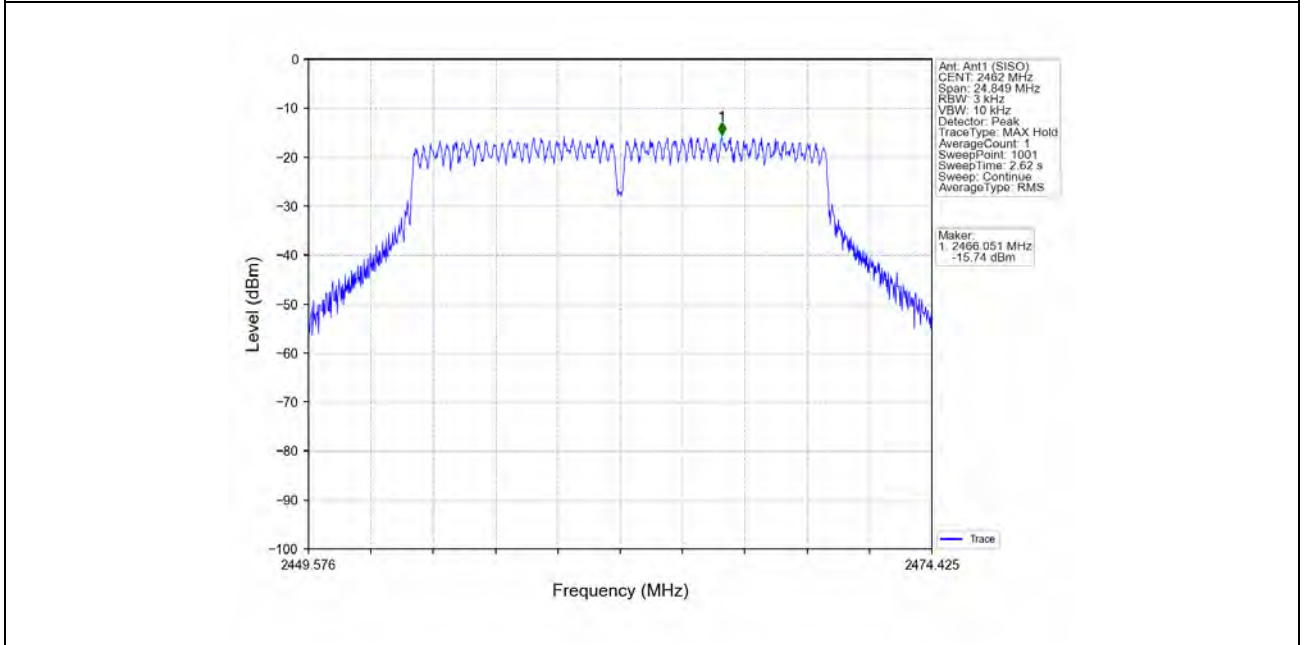


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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

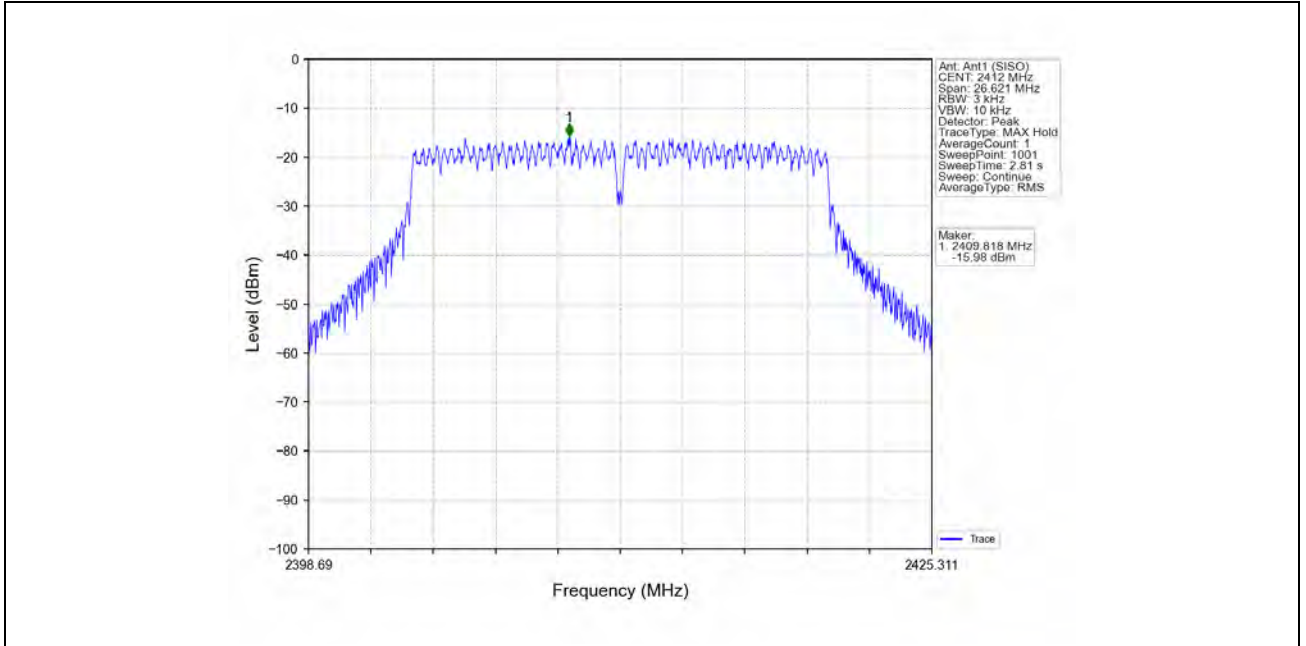


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

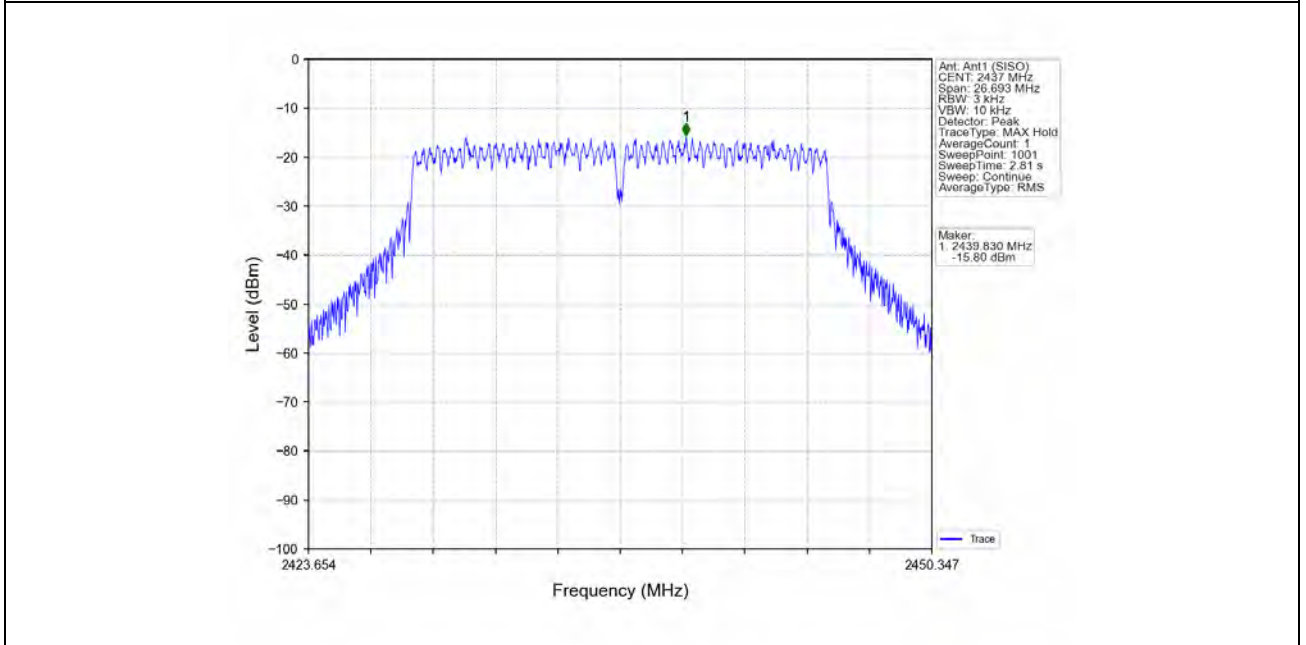


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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

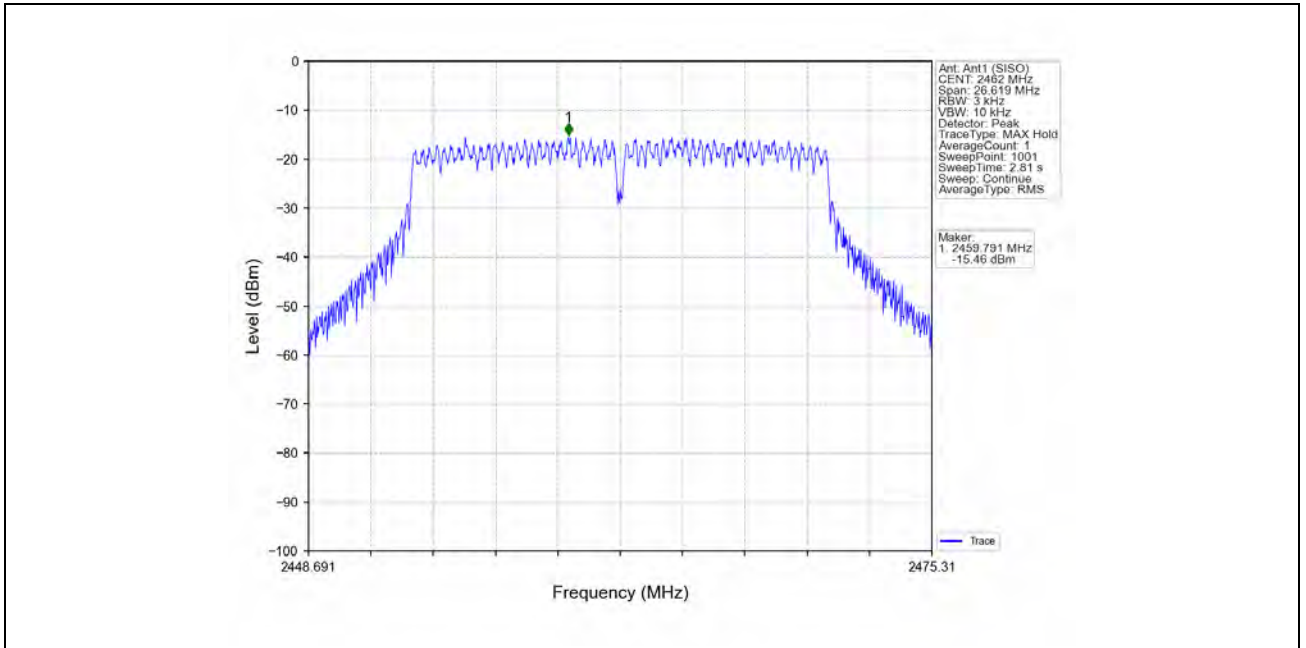


802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

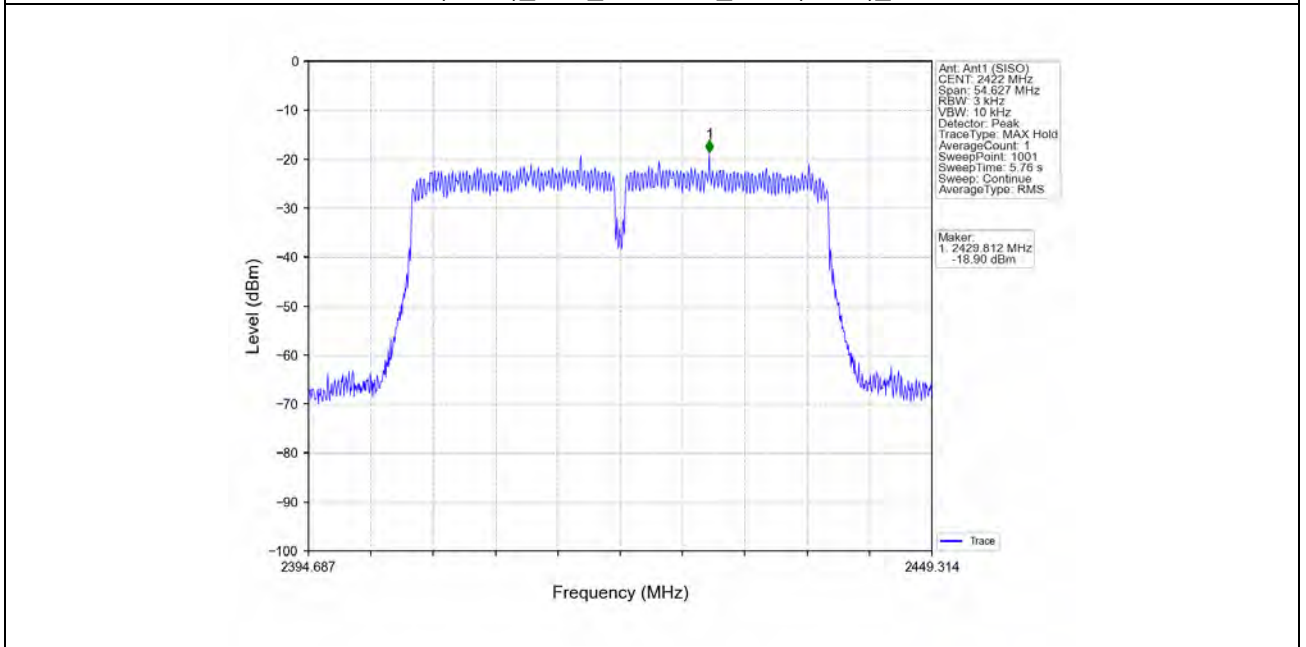


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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



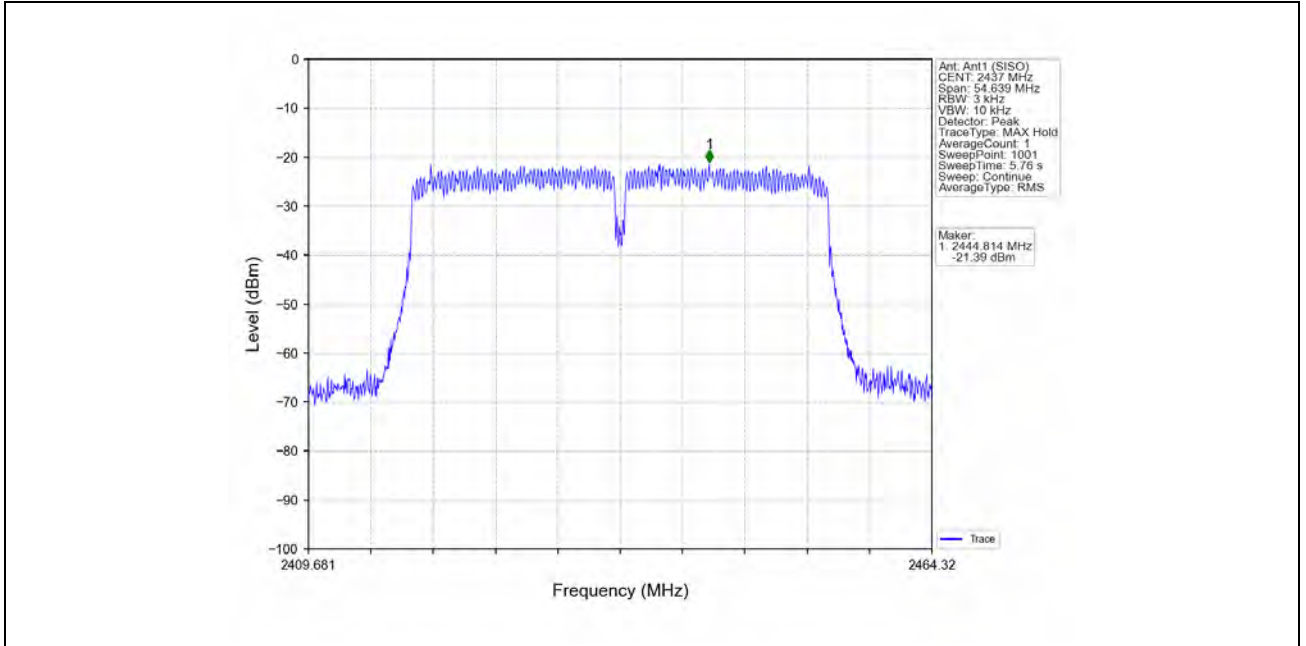
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



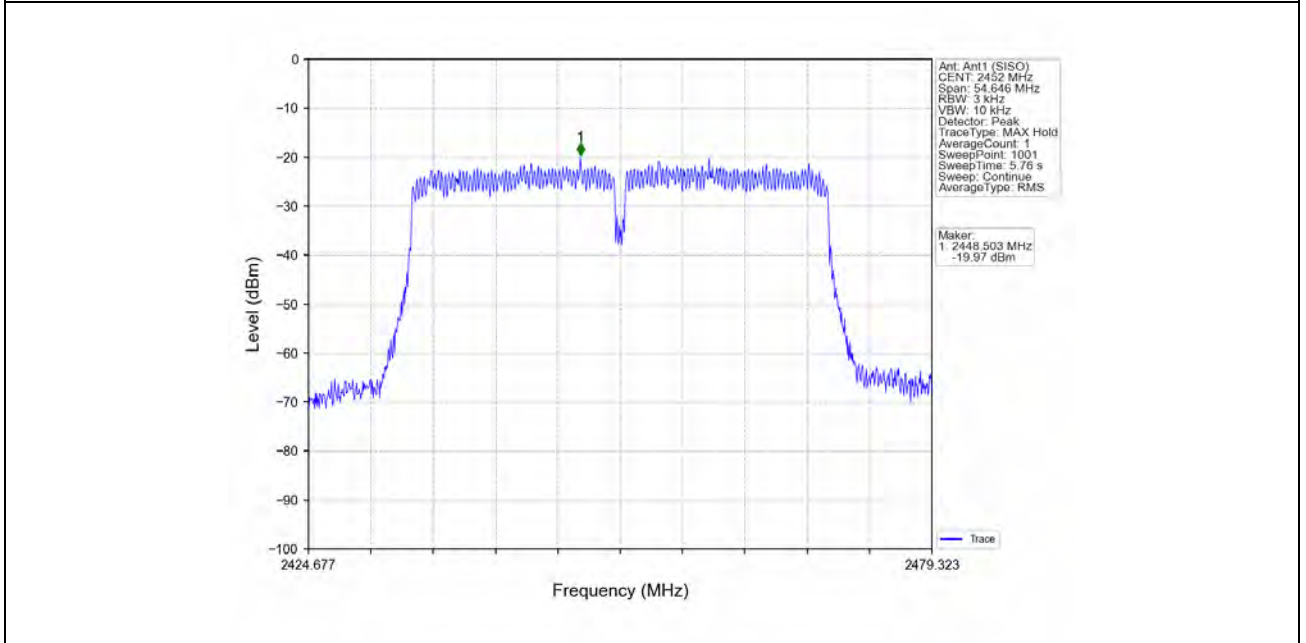
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	5.34
		2437	1	5.60
		2462	1	5.58
802.11g	SISO	2412	1	-1.87
		2437	1	-1.75
		2462	1	-1.28
802.11n (HT20)	SISO	2412	1	-1.69
		2437	1	-1.47
		2462	1	-1.08
802.11n (HT40)	SISO	2422	1	-7.57
		2437	1	-7.78
		2452	1	-7.63

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

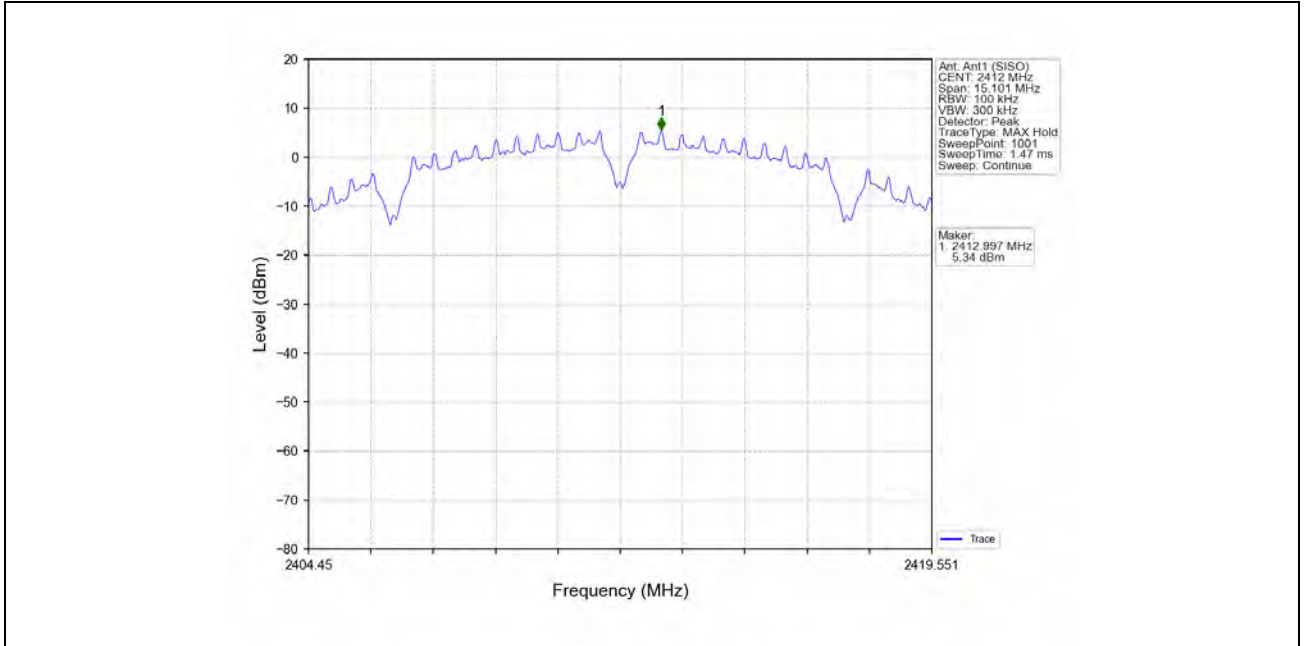
5.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

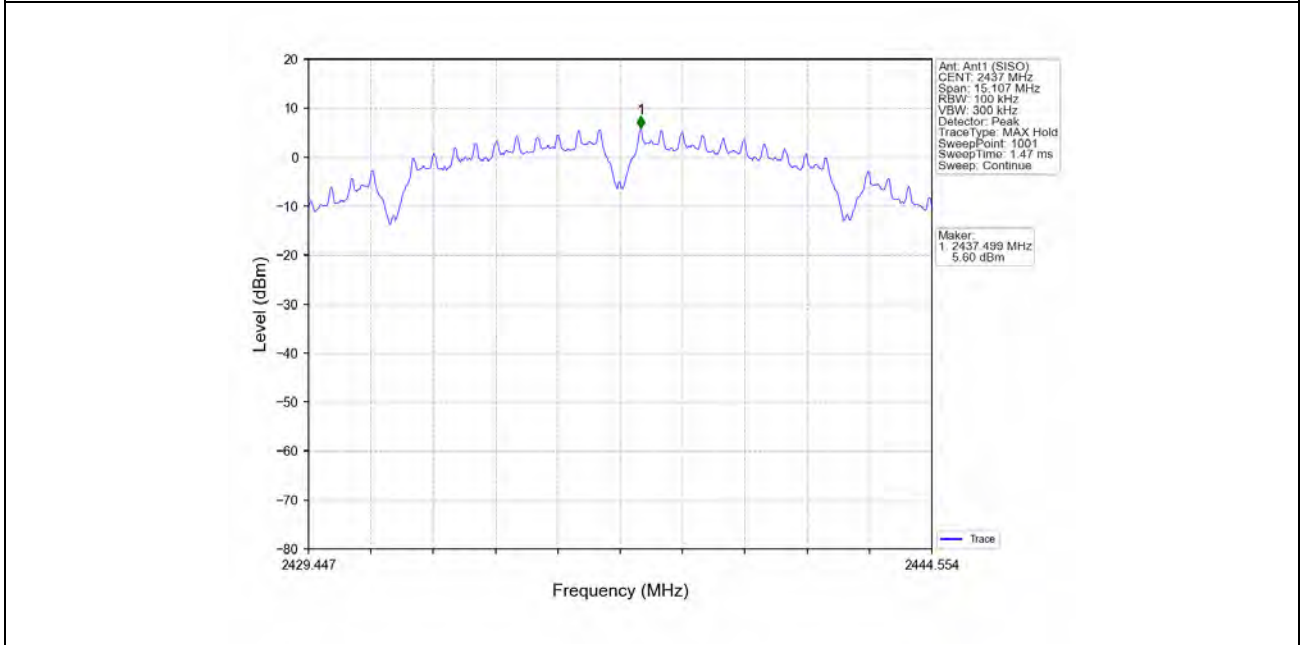


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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



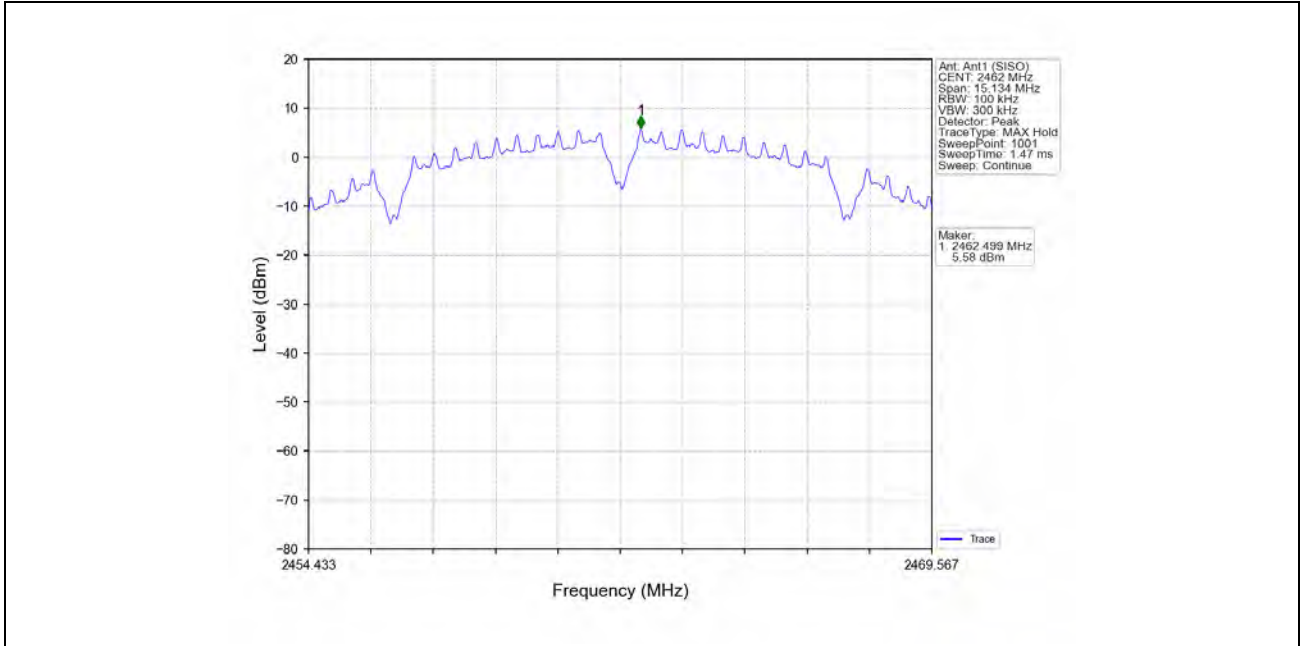
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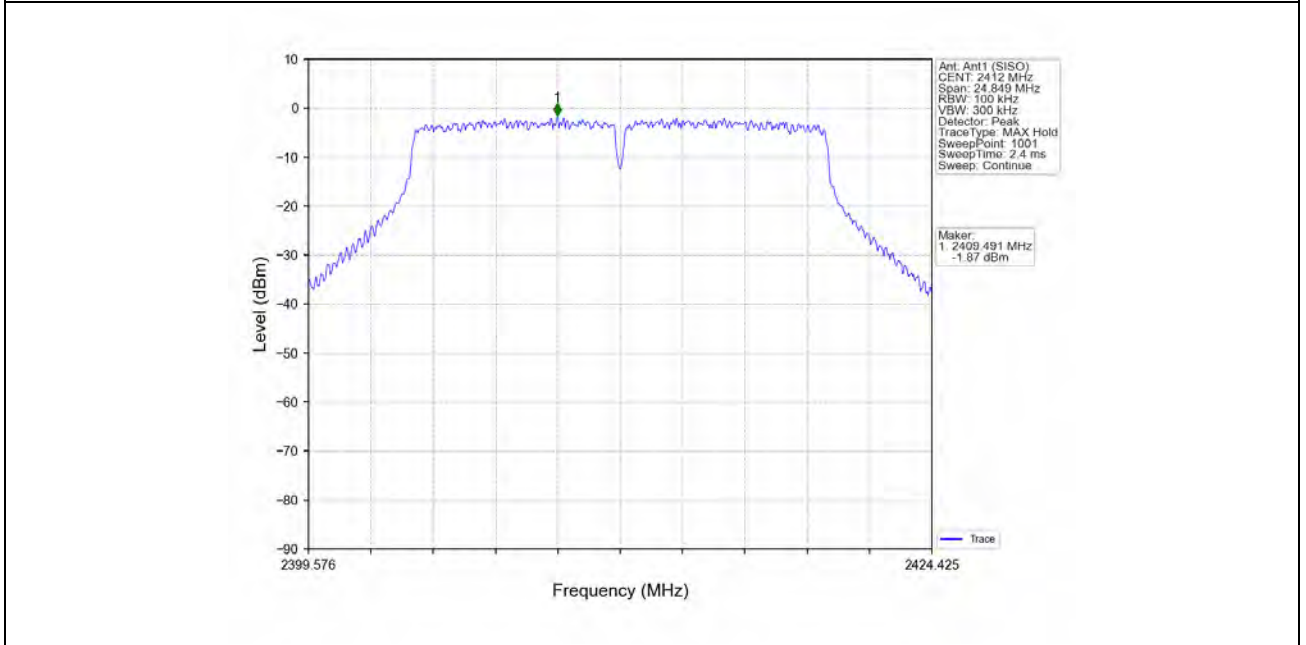
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EMC Laboratory

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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



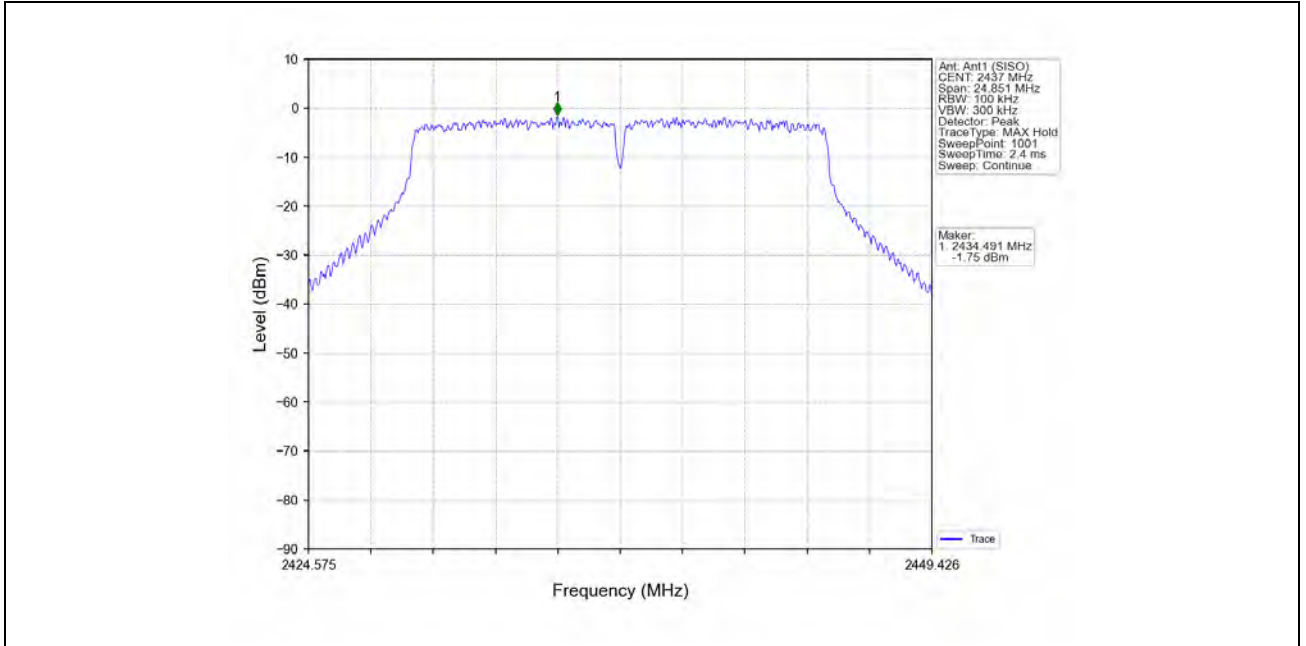
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



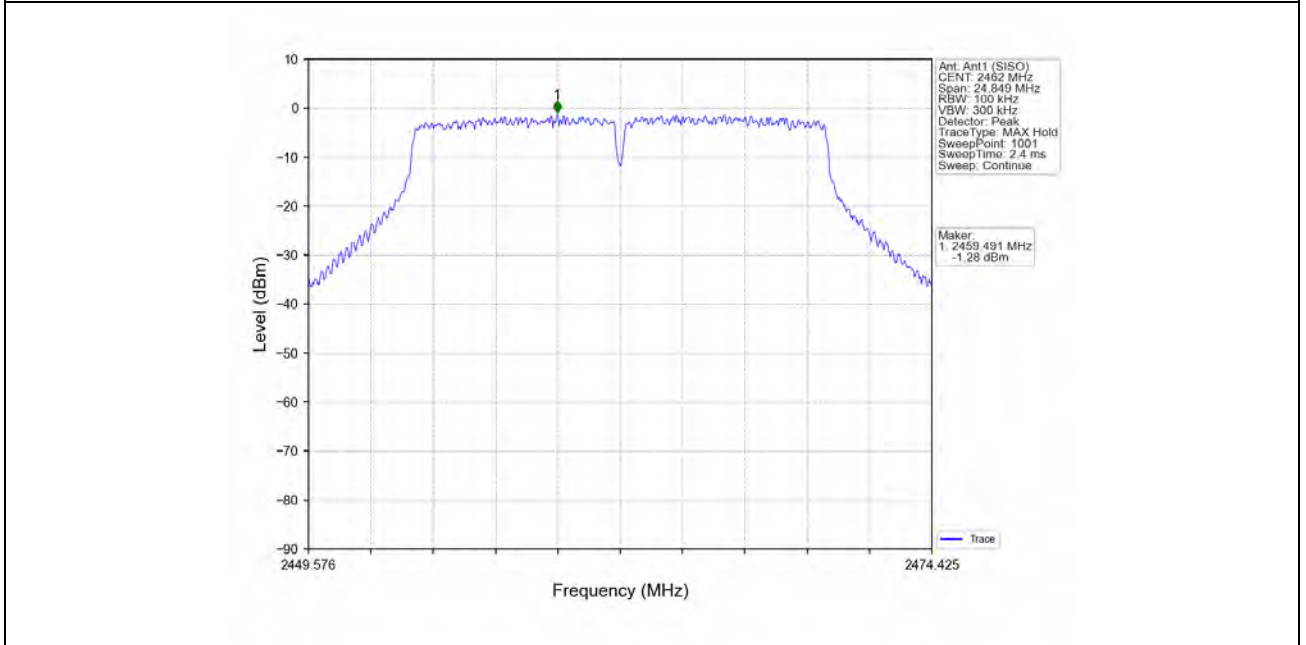
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

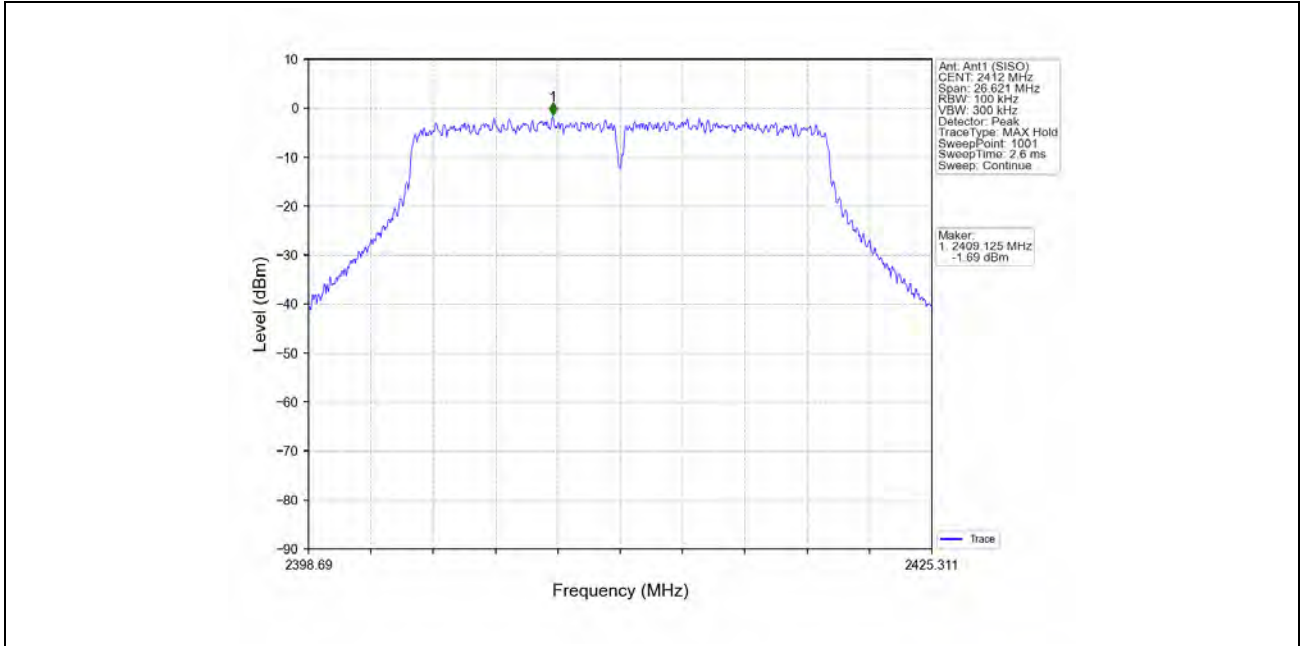


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

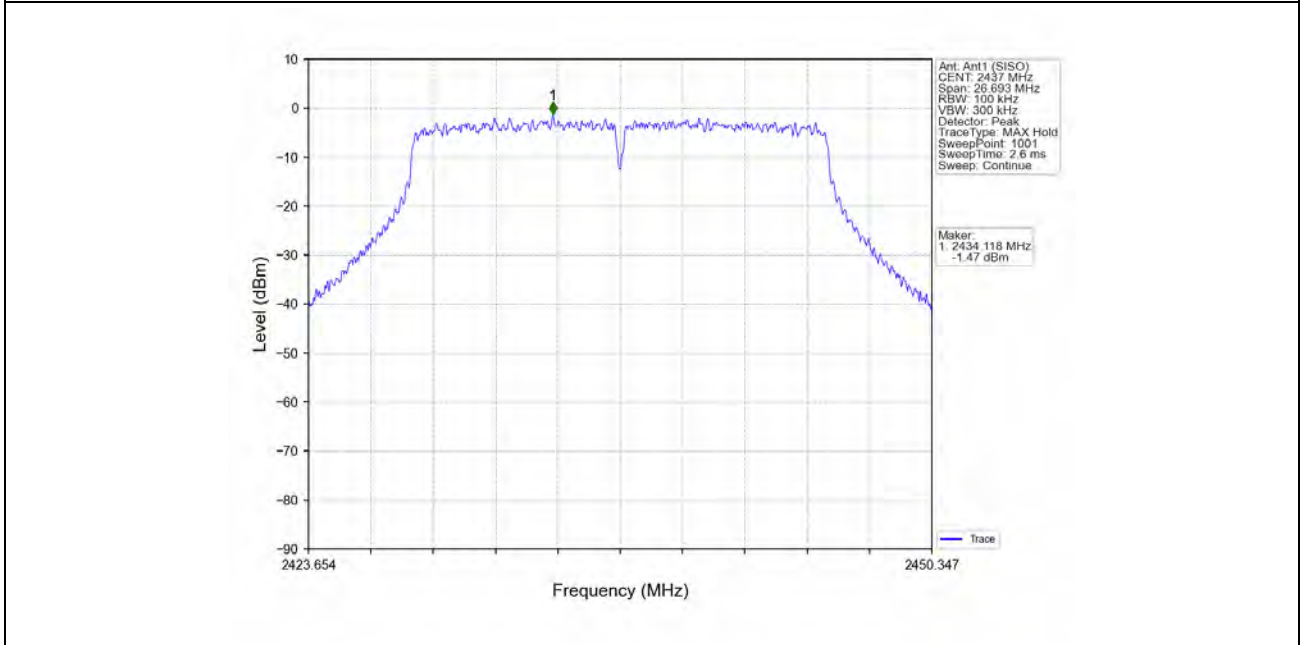


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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

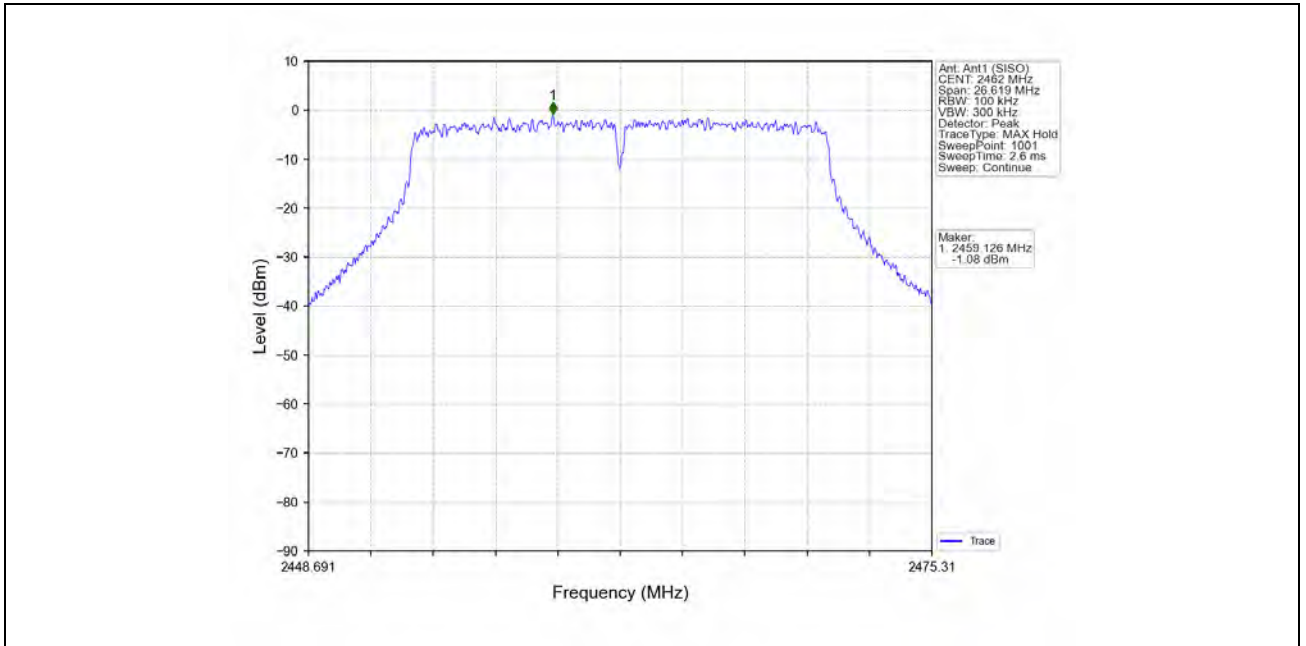


802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

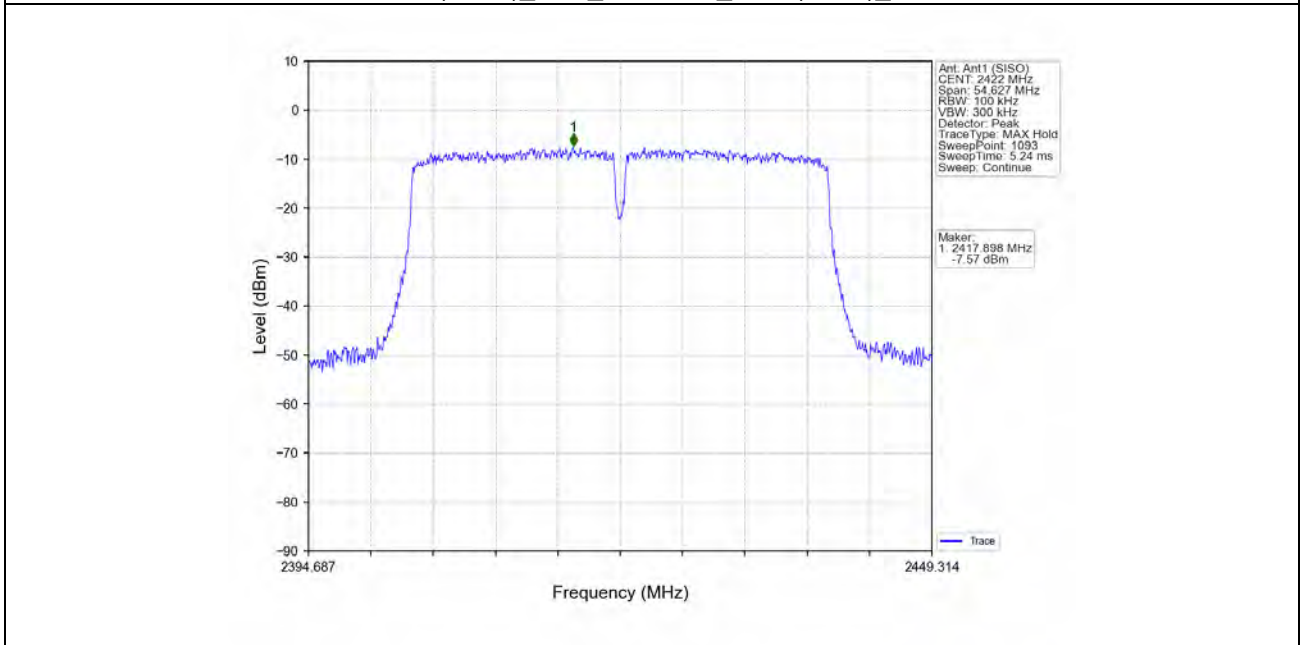


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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



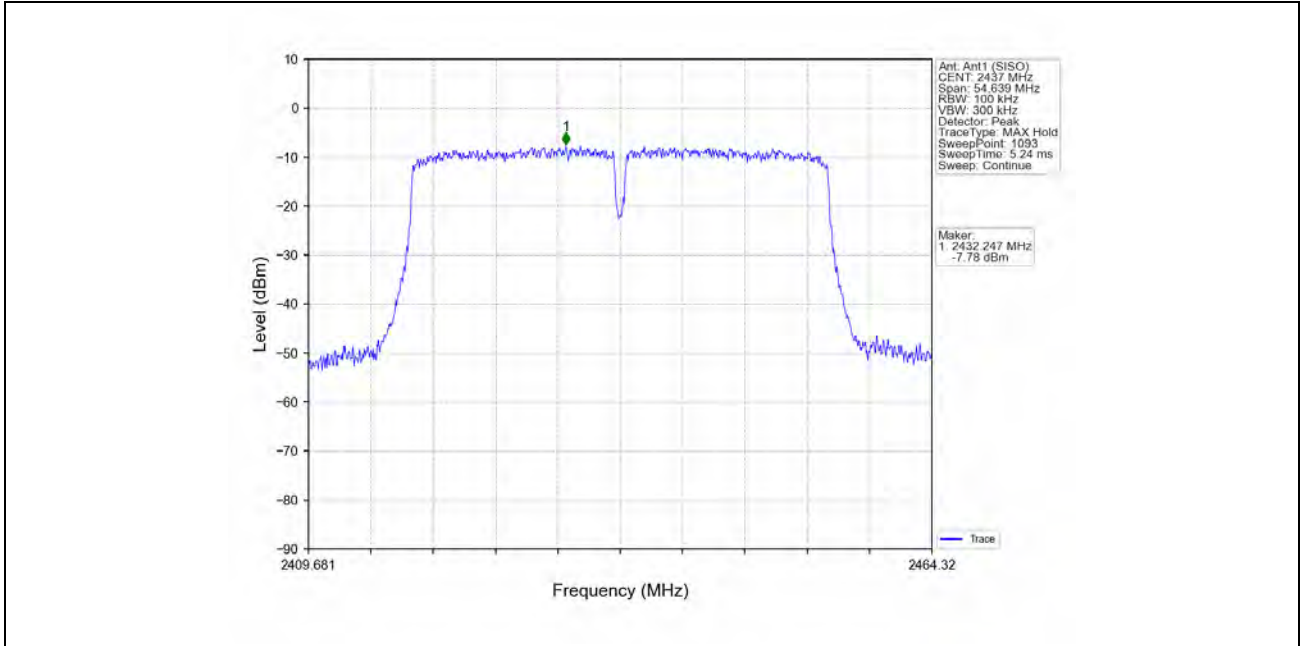
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



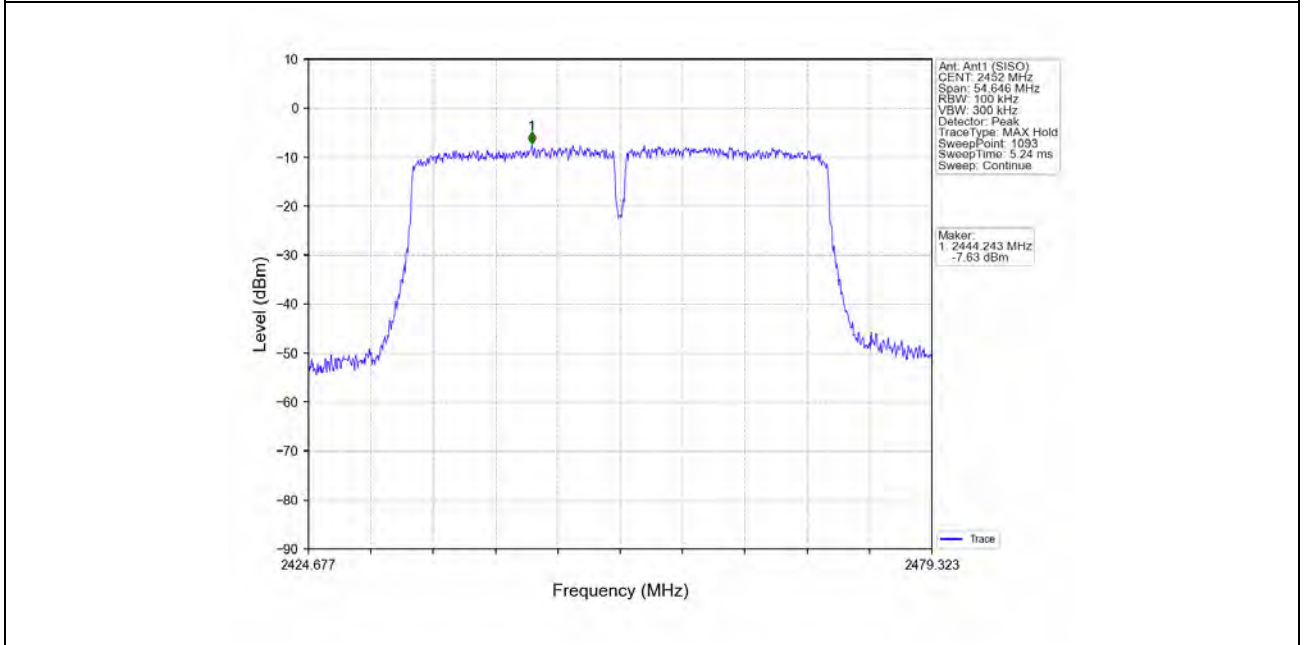
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



5.2 CSE

5.2.1 Test Result

Mode	TX	Frequency	ANT	Level of Reference	Limit	Verdict
------	----	-----------	-----	--------------------	-------	---------



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000192902

Page: 123 of 133

	Type	(MHz)		(dBm)	(dBm)	
802.11b	SISO	2412	1	5.60	-24.40	Pass
		2437	1	5.60	-24.40	Pass
		2462	1	5.60	-24.40	Pass
802.11g	SISO	2412	1	-1.28	-31.28	Pass
		2437	1	-1.28	-31.28	Pass
		2462	1	-1.28	-31.28	Pass
802.11n (HT20)	SISO	2412	1	-1.08	-31.08	Pass
		2437	1	-1.08	-31.08	Pass
		2462	1	-1.08	-31.08	Pass
802.11n (HT40)	SISO	2422	1	-7.57	-37.57	Pass
		2437	1	-7.57	-37.57	Pass
		2452	1	-7.57	-37.57	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

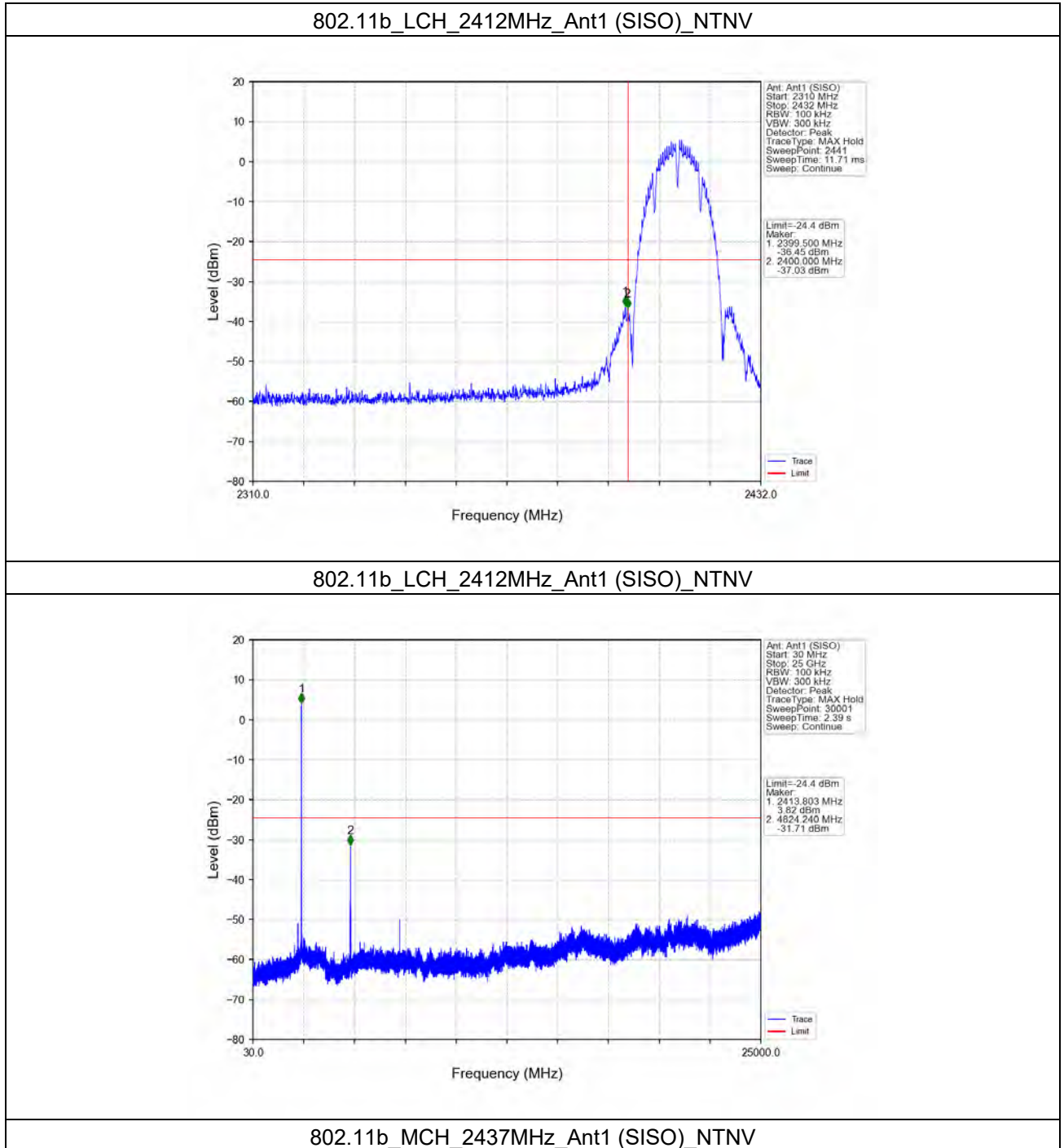


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5.2.2 Test Graph

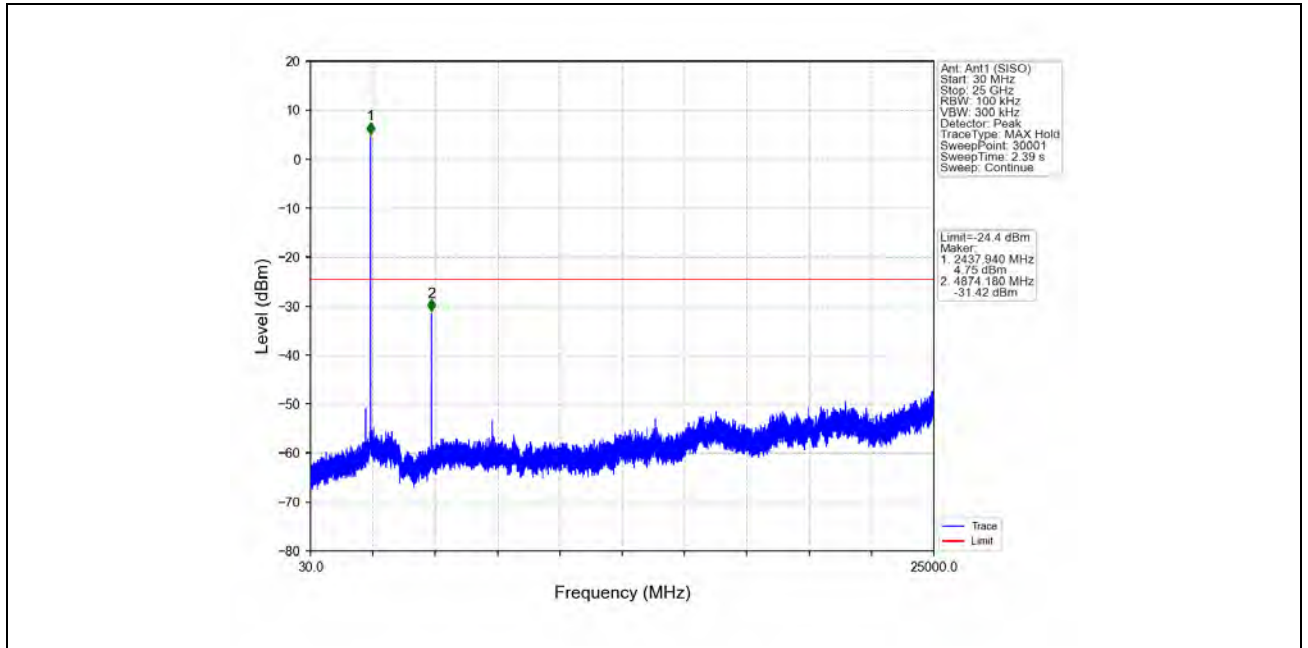


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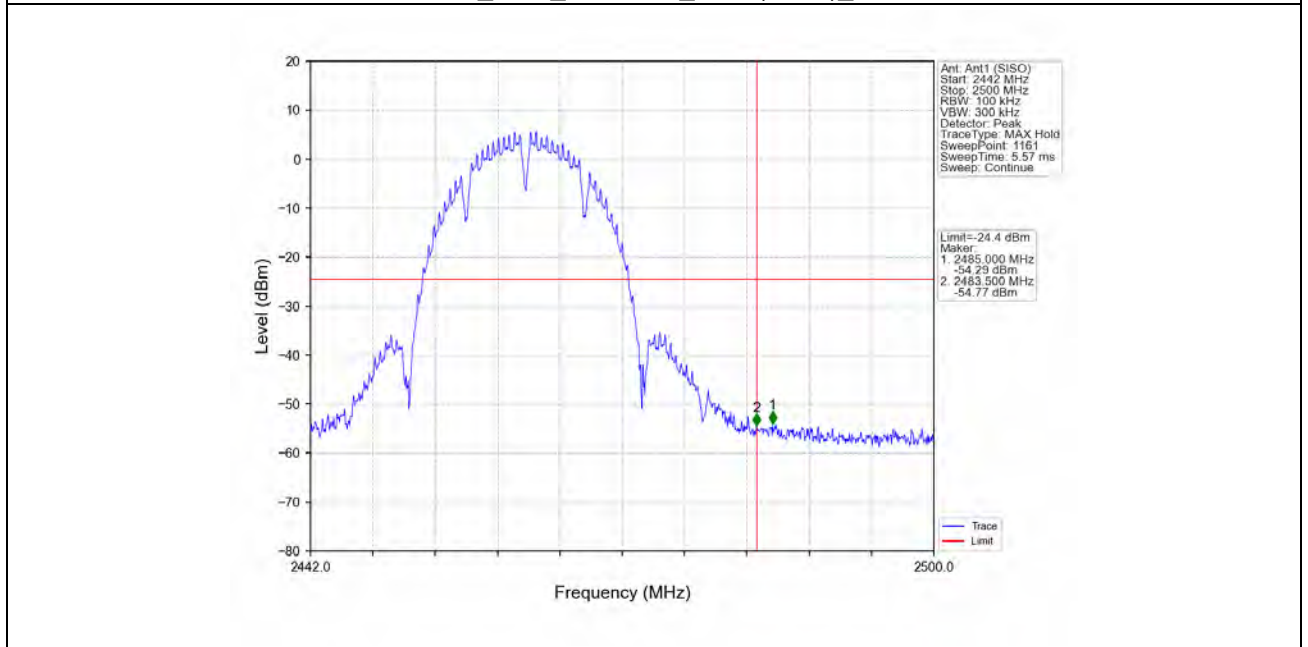
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

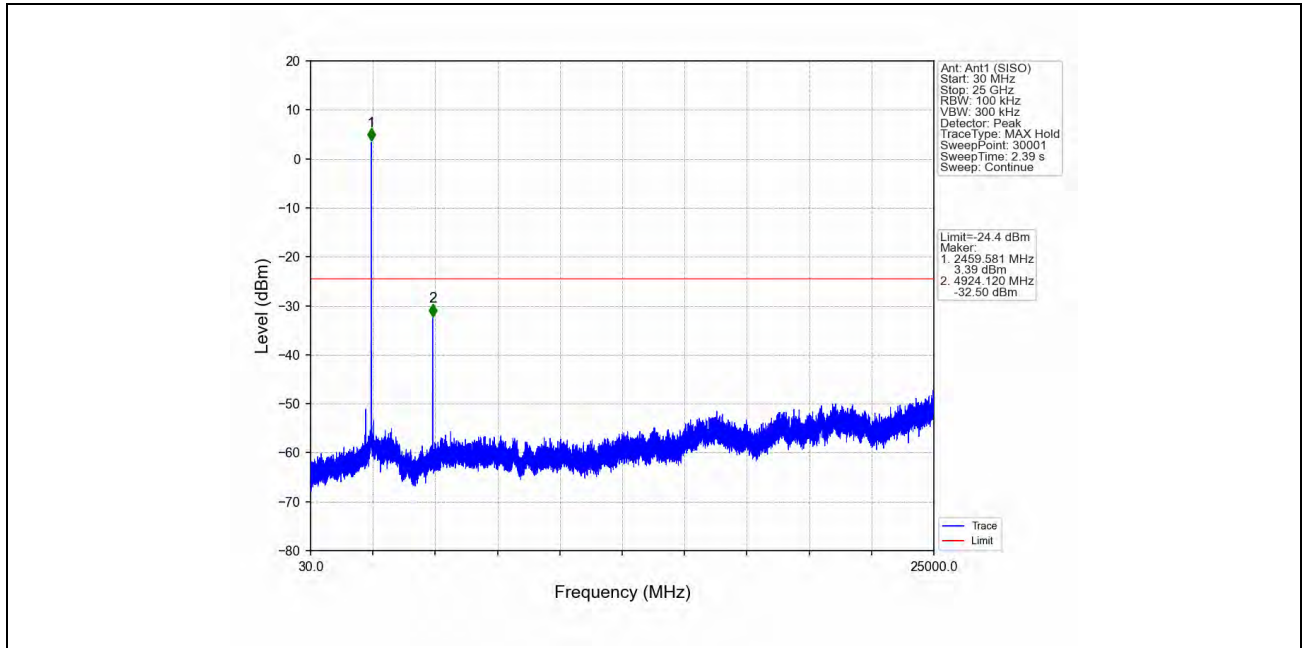


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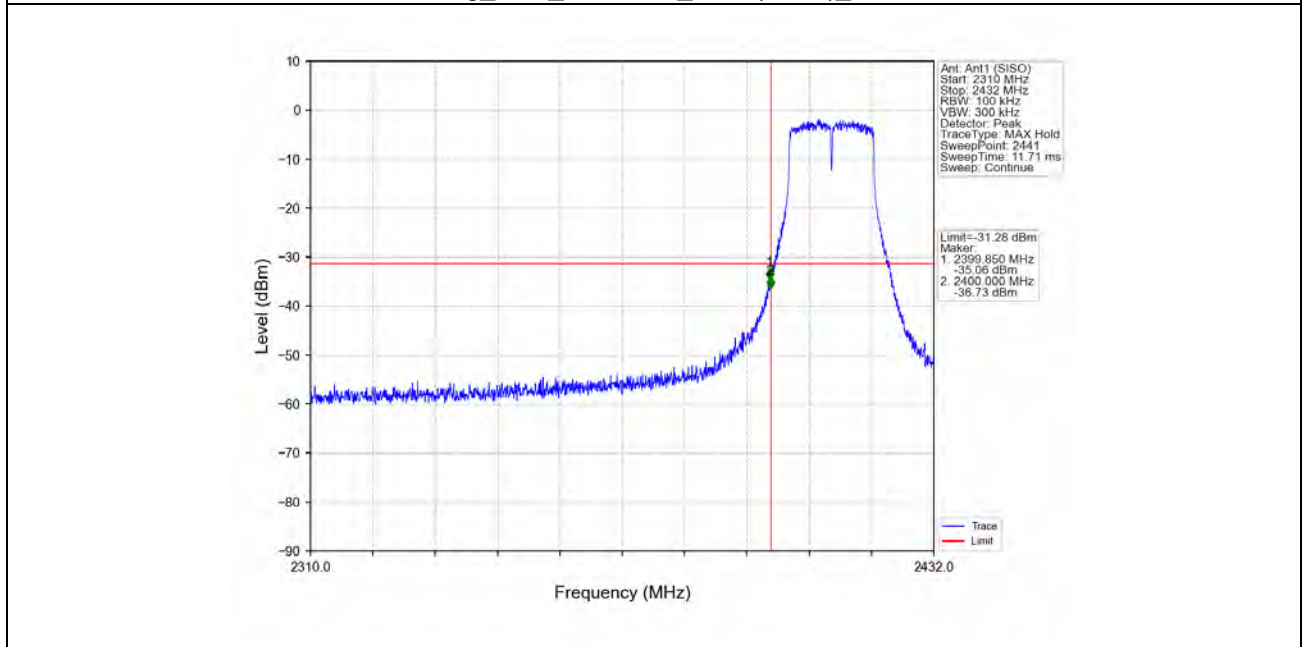
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

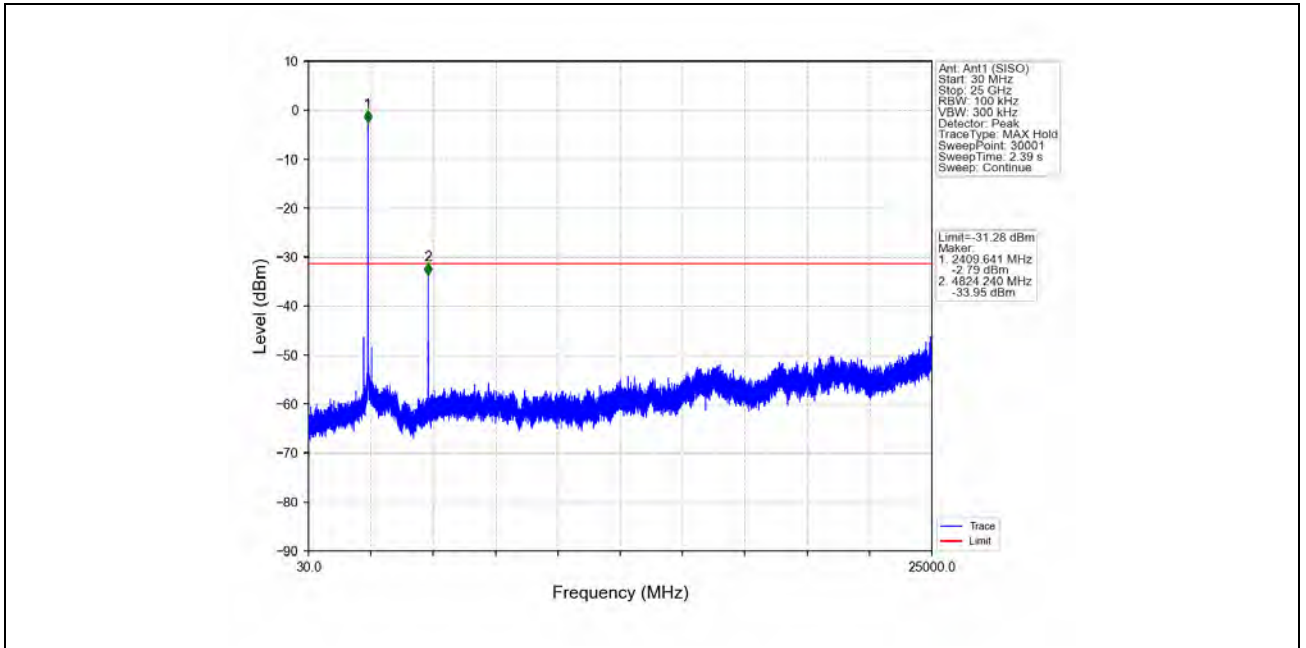


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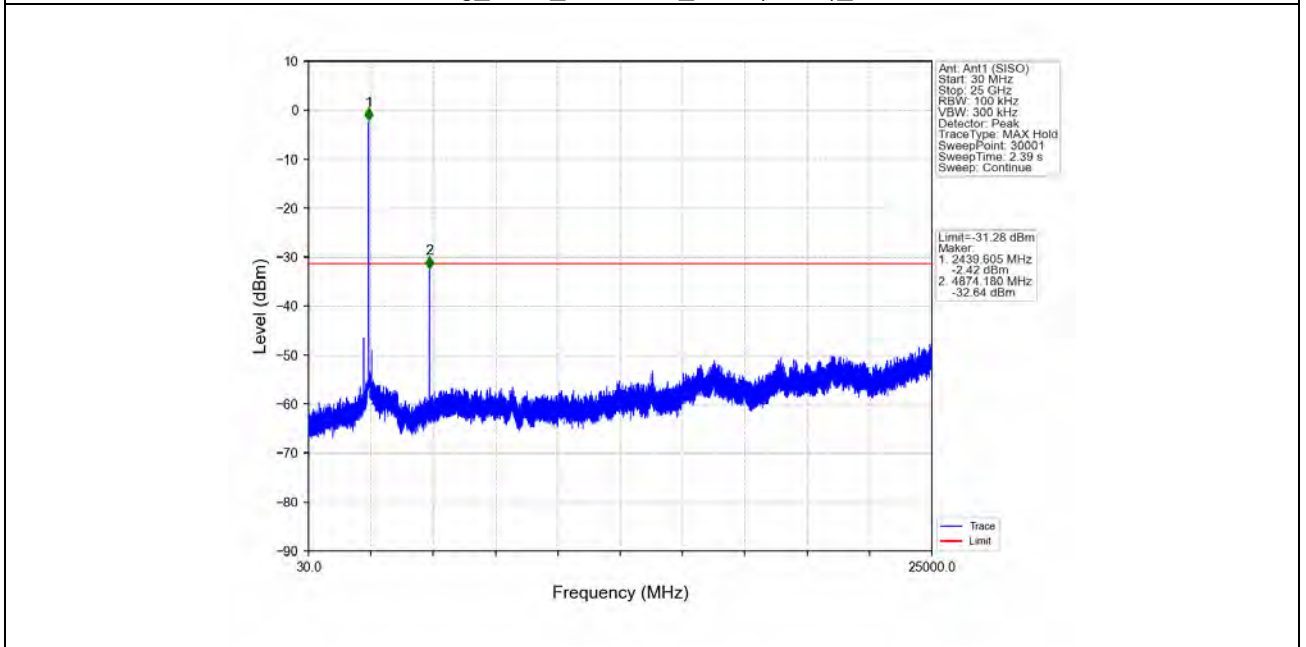
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

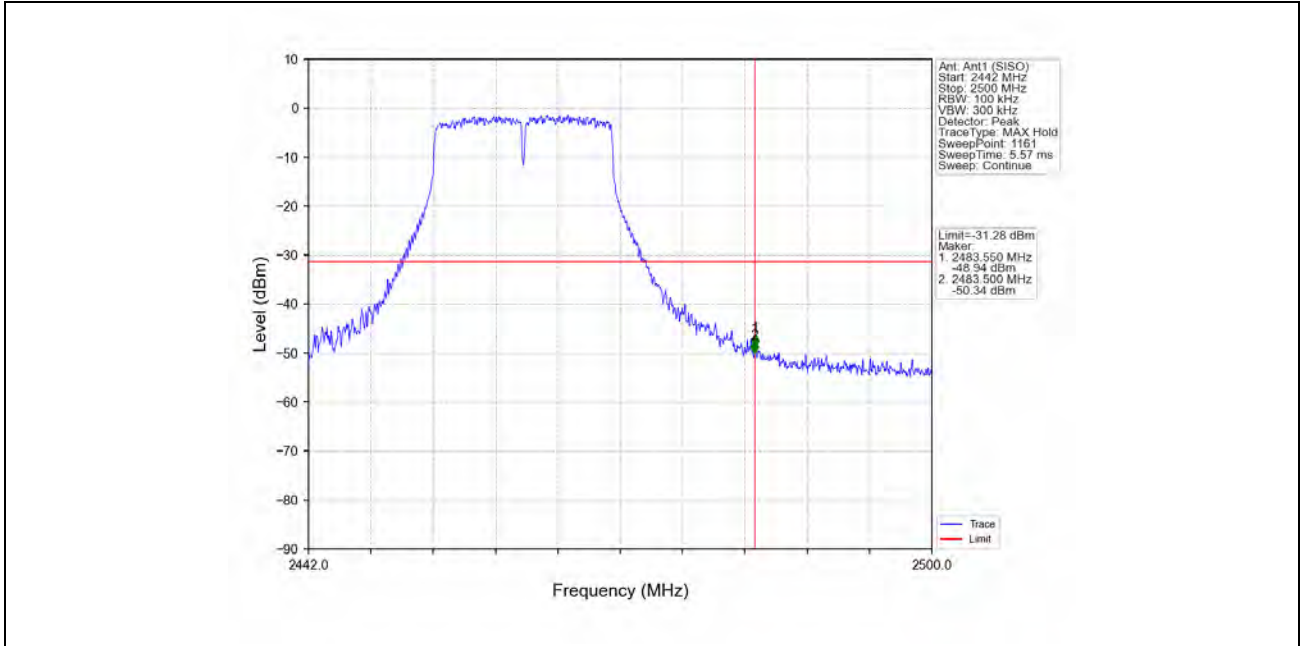


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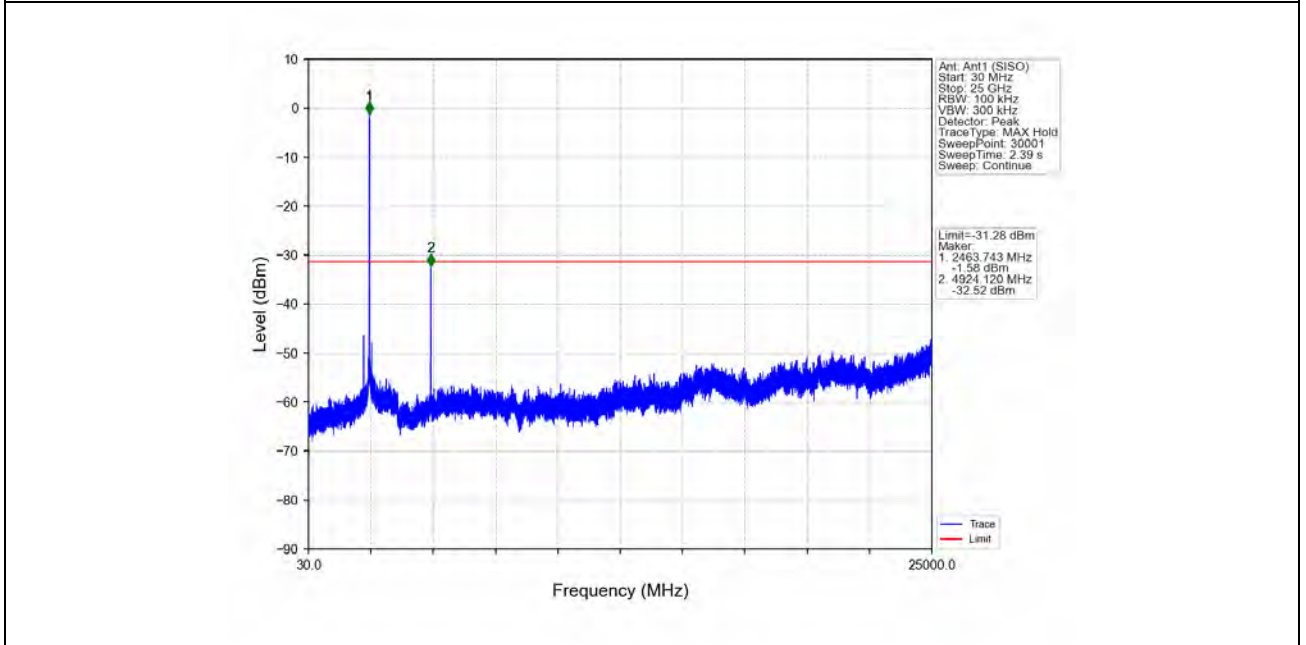
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

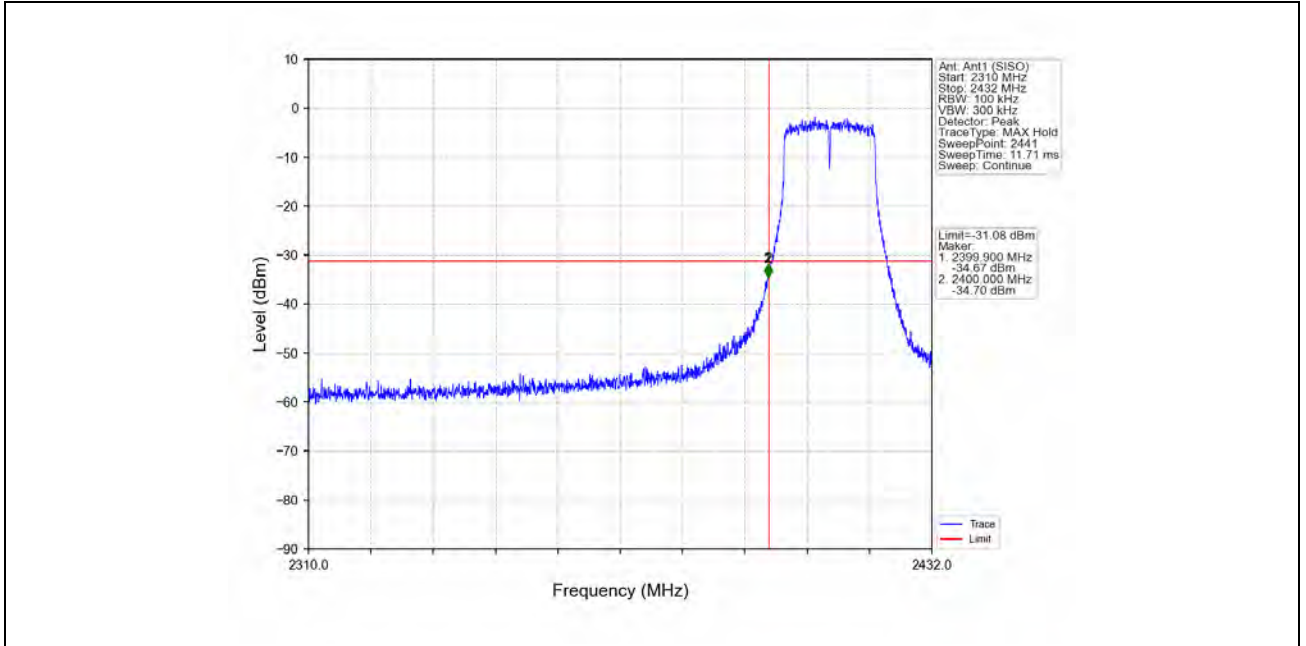


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

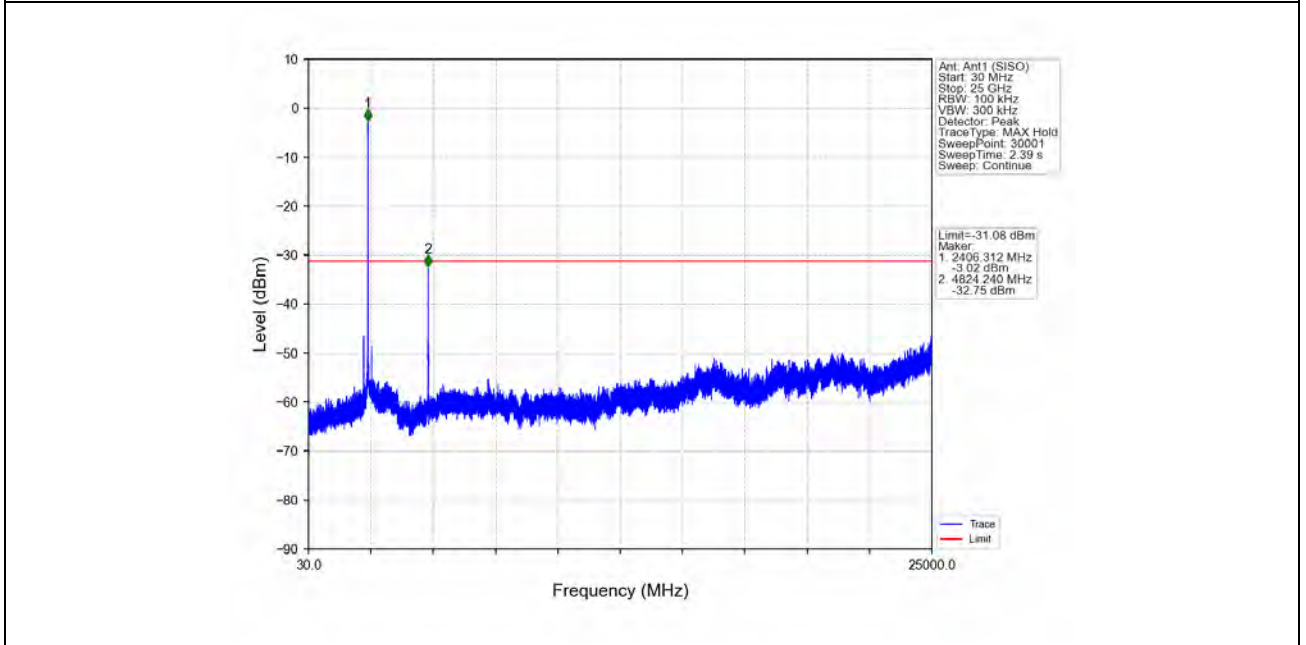


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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

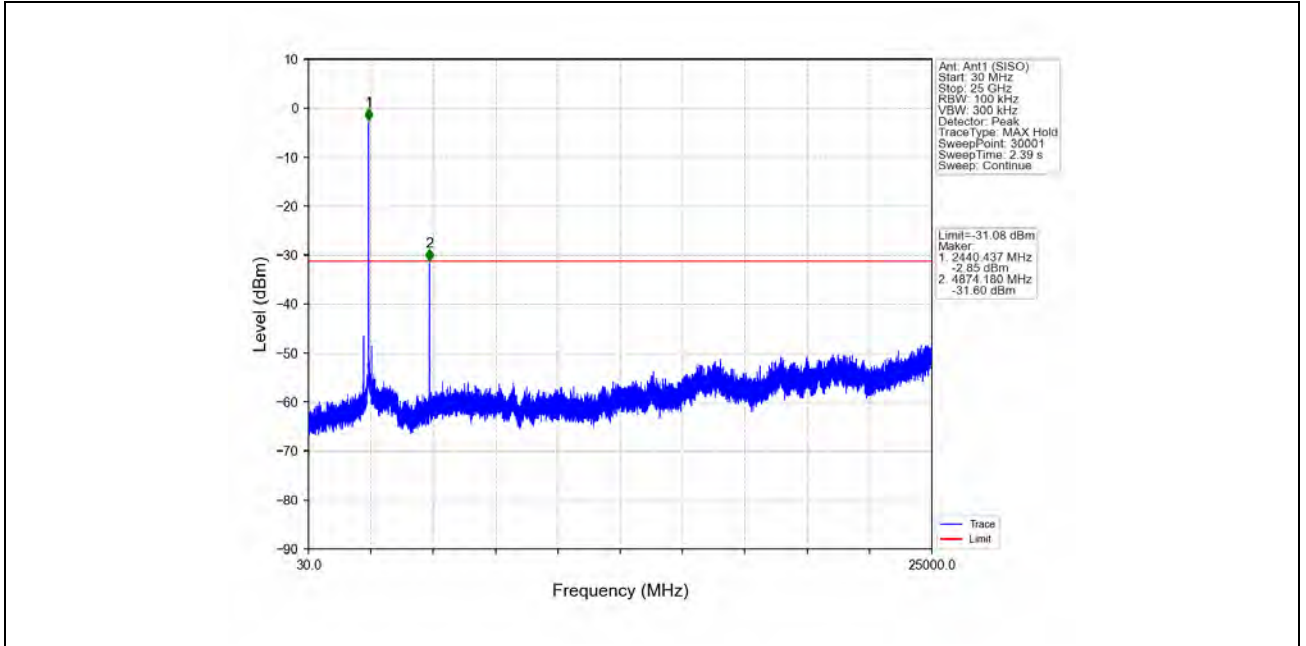


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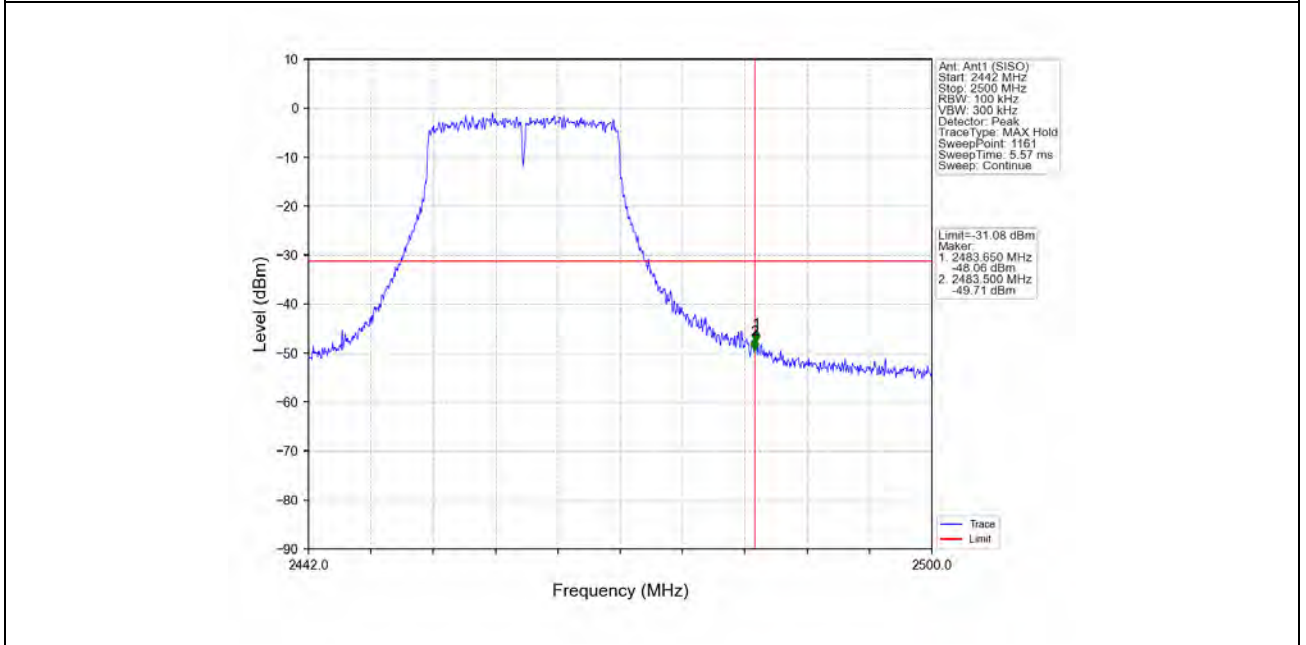
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

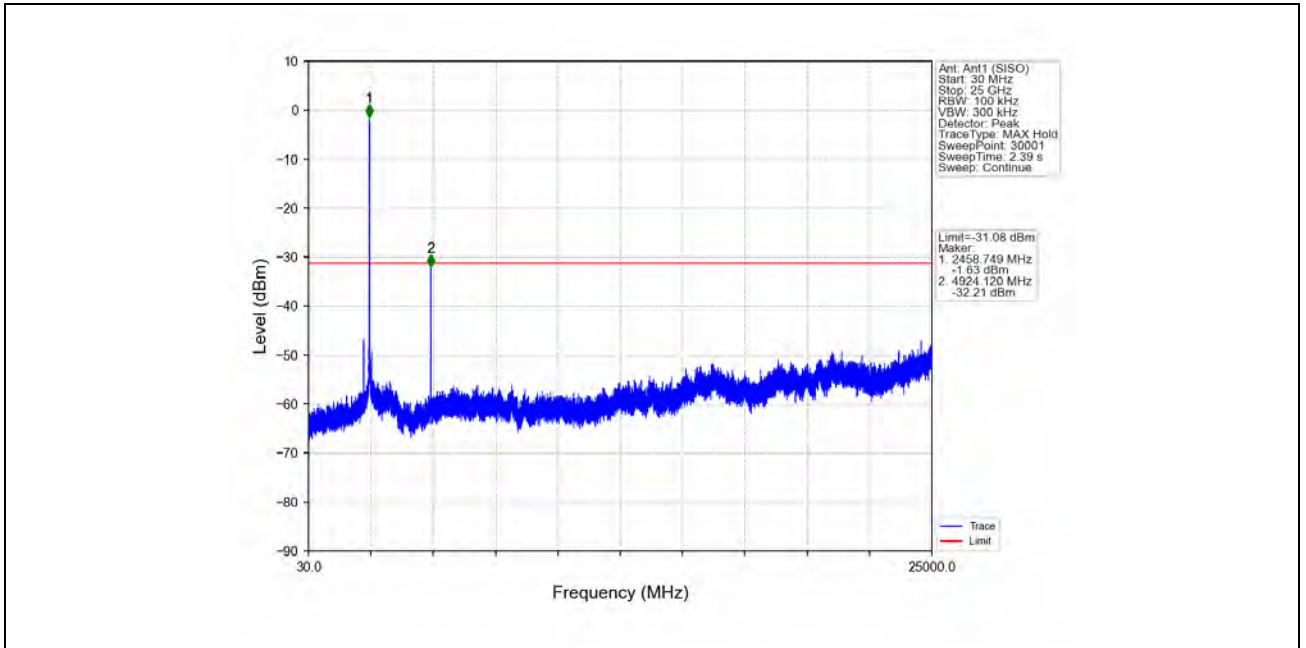


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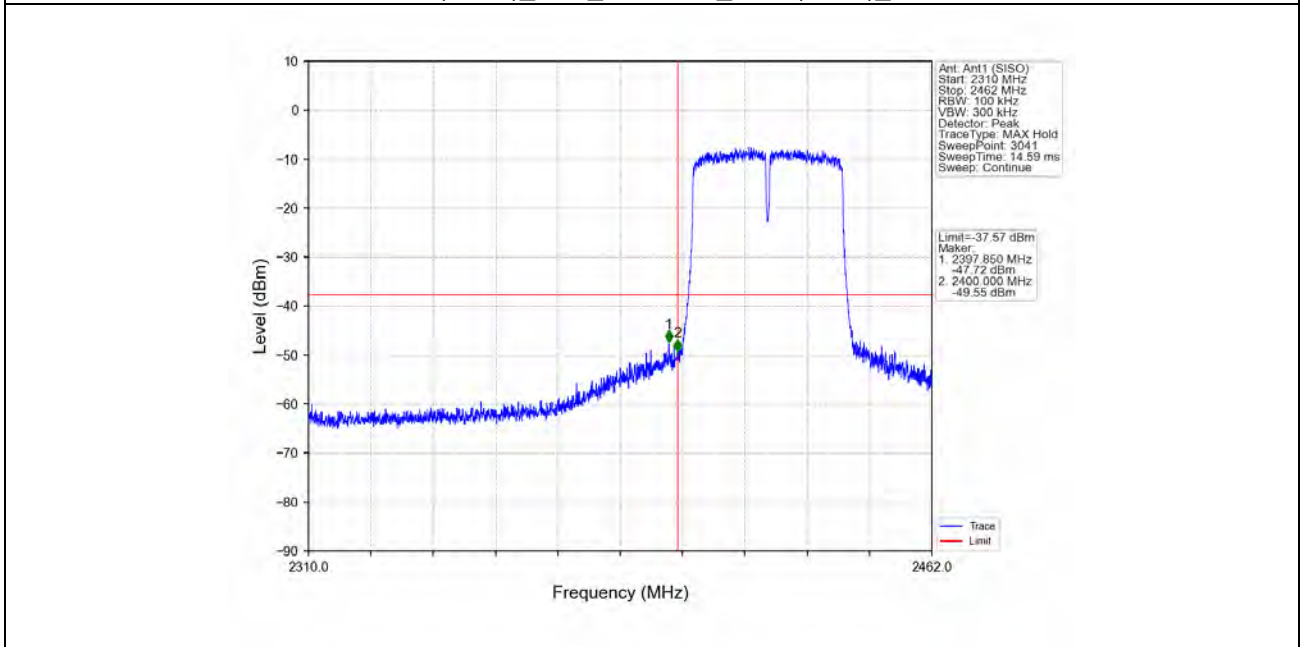
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

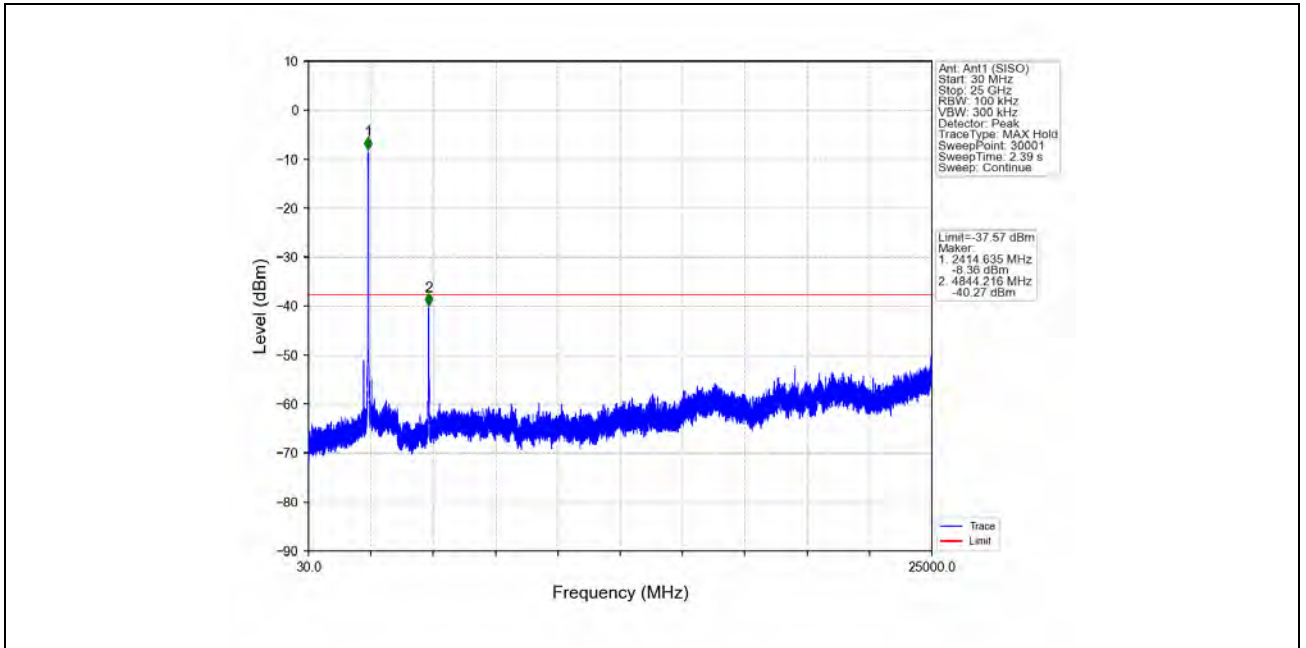


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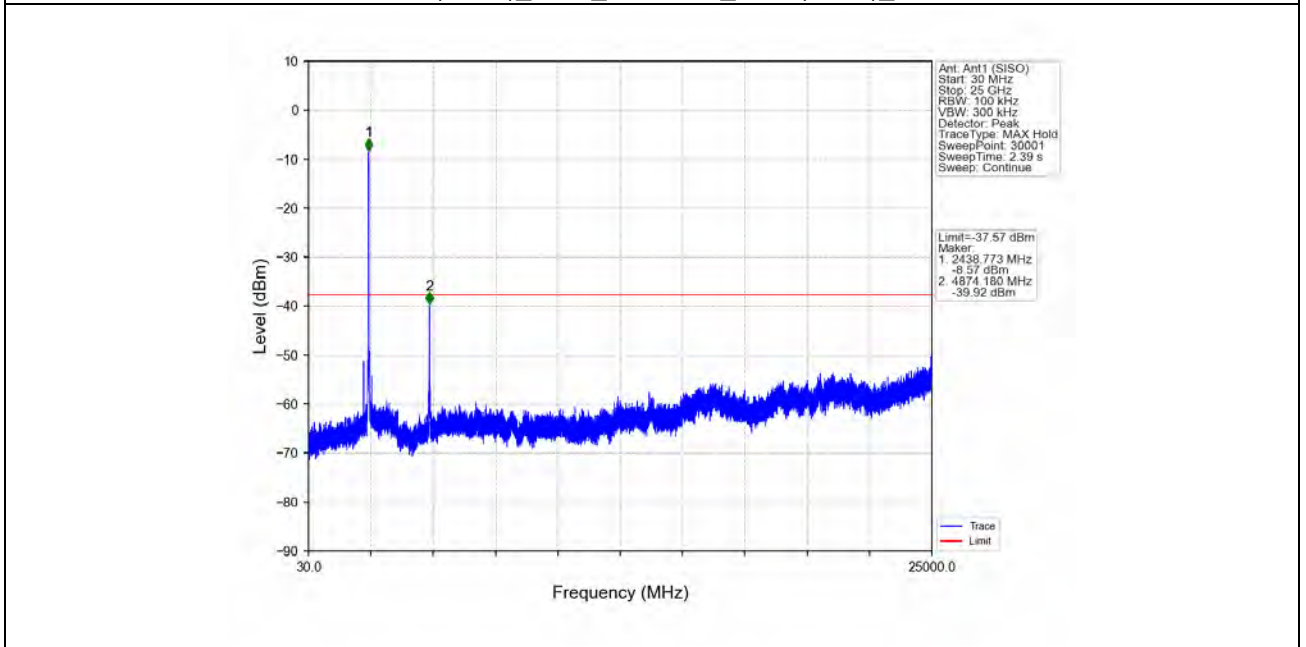
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

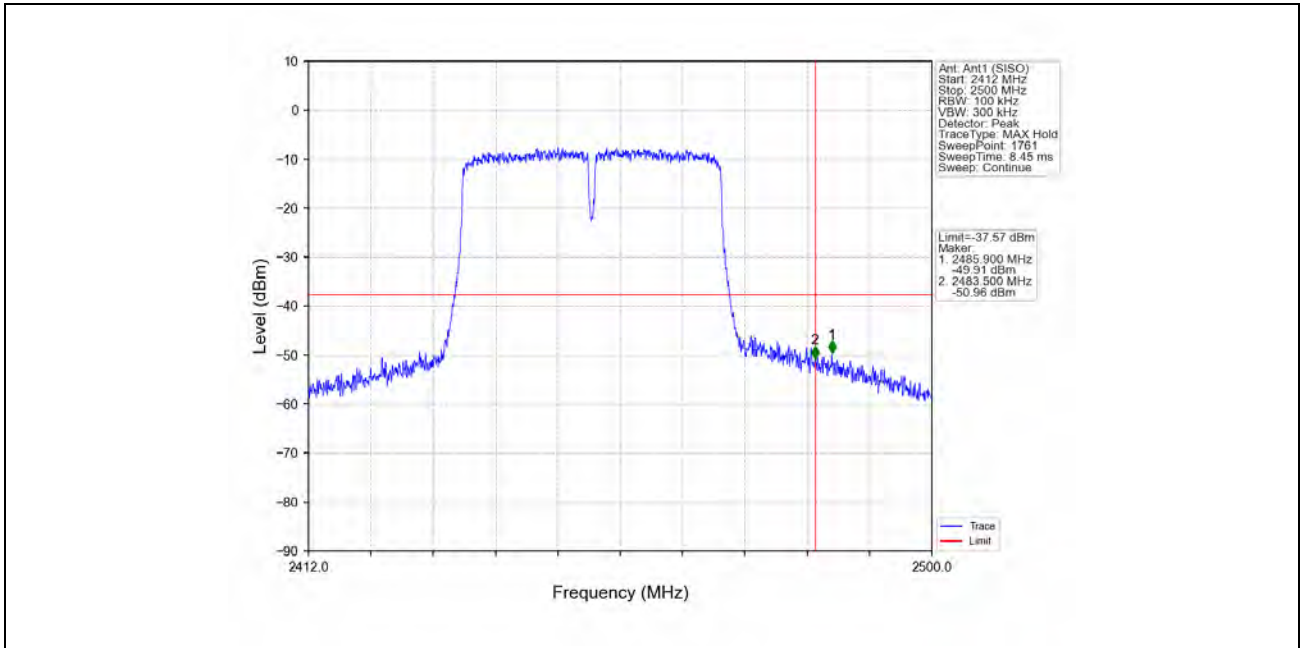


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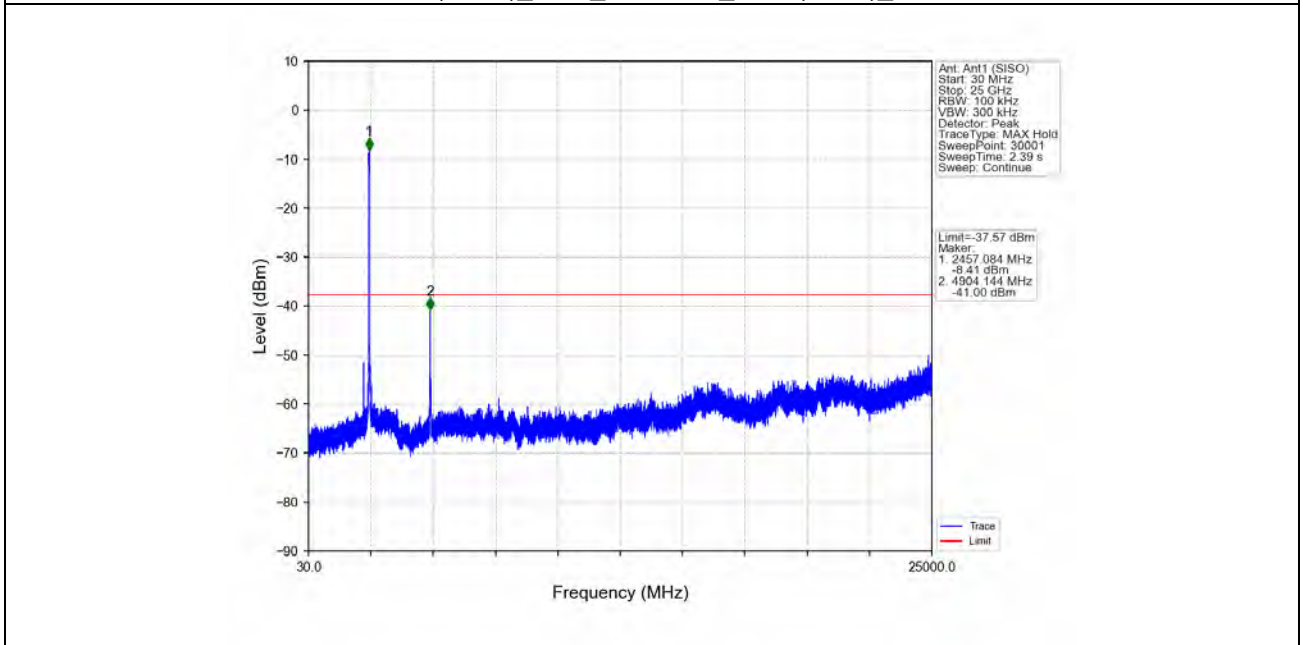
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- End of the Report -



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