



## Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800151501

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# TEST REPORT

**Application No.:** KSCR2408001515AT  
**FCC ID:** 2AL8S-0235C8T7  
**Applicant:** Zhejiang Uniview Technologies Co., Ltd.  
**Address of Applicant:** No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China  
**Manufacturer:** Zhejiang Uniview Technologies Co., Ltd.  
**Address of Manufacturer:** No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China  
**Factory:** Zhejiang Uniview Systems Technology Co., Ltd.  
**Address of Factory:** No.1277 South Qingfeng South Road, Tongxiang City, Jiaxing City, Zhejiang Province, China  
**Equipment Under Test (EUT):**  
**EUT Name:** IP Camera  
**Model No.:** IPC6215SR-X5PAEW-VG,IPC6215SRa-xxxxWxxxx-yyyyyyyyy-zzz,  
"x" can be 0-9, A-Z, a-z or blank, denoting difference in interface,  
"y" can be 0-9,A-Z,a-z or blank, denoting performance difference,  
"z" can be 0-9,A-Z,a-z or blank, denoting target regional, "-" is optional ♣  
♣ 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  
**Date of Receipt:** 2024-08-06  
**Date of Test:** 2024-08-07 to 2024-08-19  
**Date of Issue:** 2024-08-20

**Test Result:**

**Pass\***

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

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Revision Record			
Version	Description	Date	Remark
00	Original	2024-08-20	/

Authorized for issue by:			
Tested By		Maker Qi	
		Maker_Qi/Project Engineer	
Approved By		Terry Hou	
		Terry Hou /Reviewer	

## 2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Conducted Average Output Power		ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass

Model No.: IPC6215SR-X5PAEW-VG,IPC6215SRa-xxxxWxxxx-yyyyyyyyy-zzz,

"x" can be 0-9, A-Z, a-z or blank, denoting difference in interface,

"y" can be 0-9,A-Z,a-z or blank, denoting performance difference,

"z" can be 0-9,A-Z,a-z or blank, denoting target regional, "-" is optional

Note: There are series models mentioned in this report, and they are identical in electrical and electronic characters. Only the model IPC6215SR-X5PAEW-VG was tested since their differences were the model number and appearance.

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## 4 General Information

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

Power supply:	DC 12V/1.5A; POE 48V/0.5A
Test voltage:	AC 120V/60Hz
Operation Frequency:	802.11b/g/n(HT20)/ax(HEW20):2412MHz to 2462MHz; 802.11n(HT40)/ax(HEW40):2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK), 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM)
Data rate:	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n/ax: MCS0-MCS7
Number of Channels:	802.11b/g/n(HT20)/ax(HEW20):11;802.11n(HT40)/ax(HEW40):7
Channel Spacing:	5MHz
Antenna Type:	Internal antenna
Antenna Gain:	3.94dBi(Provided by the manufacturer)

### 4.2 Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)
	Ant 1	Ant 1	Ant 1
1	default	20	default
6	default	20	default
11	default	20	default
Channel	802.11n(HT40)	802.11ax(HEW20)	802.11ax(HEW40)
	Ant 1	Ant 1	Ant 1
3	default	default	default
6	default	default	default
9	default	default	default

### 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	LENOVO	K27	EB24537645
AC Adapter	/	/	/
PoE Adapter	/	/	/

## 4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$8.4 \times 10^{-8}$
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.

#### 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).
3. Sample source: sent by customer.

#### 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
<b>Conducted Emission at Mains Terminals</b>						
1	EMI Test Receive	R&S	ESCI	KS301101	01/15/2024	01/14/2025
2	LISN	R&S	ENV216	KS301197	01/15/2024	01/14/2025
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/15/2024	01/14/2025
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	01/15/2024	01/14/2025
5	CE test Cable	Thermax	/	CZ301102	01/15/2024	01/14/2025
6	Test Software	Farad	EZ-EMC	/	N.C.R	N.C.R
<b>RF Conducted Test</b>						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/24/2023	08/23/2024
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/24/2023	08/23/2024
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/15/2024	01/14/2025
4	Signal Generator	R&S	SMBV100B	KSEM032	03/19/2024	03/18/2025
5	Signal Generator	R&S	SMW200A	KSEM020-1	08/24/2023	08/23/2024
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/24/2023	08/23/2024
7	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/24/2023	08/23/2024
8	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	03/19/2024	03/18/2025
9	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/24/2023	08/23/2024
10	Switcher	TST	FY562	KUS2001M001-4	01/15/2024	01/14/2025
11	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
13	Conducted Test Cable	Thermax	RF01-RF04	CZ301111- CZ301120	01/15/2024	01/14/2025
14	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	08/24/2023	08/23/2024
15	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	03/19/2024	03/18/2025
16	Software	BST	TST-PASS	/	NCR	NCR
<b>RF Radiated Test</b>						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/24/2023	08/23/2024
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	03/19/2024	03/18/2025
3	Signal Generator	Agilent	E8257C	KS301066	08/24/2023	08/23/2024
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	03/18/2023	03/17/2025
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2023	06/28/2025
6	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E006	03/19/2024	03/18/2025
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	08/24/2023	08/23/2024
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	04/07/2023	04/06/2025
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	01/07/2024	01/06/2026
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/15/2024	01/14/2025
11	Amplifier(18~40GHz)	PANSHAN TECHNOLOGY	LNA180400G40	KSEM038	08/24/2023	08/23/2024
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	08/24/2023	08/23/2024
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	03/19/2024	03/18/2025
14	Software	Faratronic	EZ_EMG-v 3A1	/	NCR	NCR
15	Software	ESE	E3_V 6.111221a	/	NCR	NCR



## **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 Internal antenna and no consideration of replacement. The best case gain of the antenna is 3.94dBi.

Antenna location: Refer to internal photo.

## 7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

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

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

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

Operating Environment:

Temperature: 28.9 °C

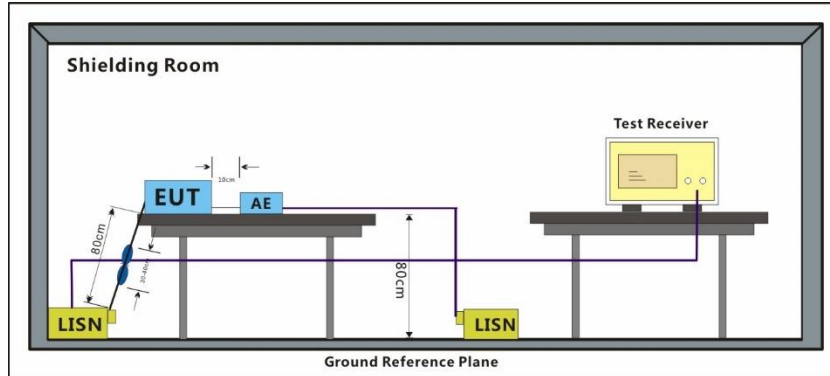
Humidity: 46.6 % RH

Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

### 7.1.3 Test Setup Diagram



### 7.1.4 Measurement Procedure and Data

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

Remark 1: Level=Read Level+ Cable Loss+ LISN Factor

Remark 2: EUT has two different power supply modes: power adapter power supply and POE power supply, both of which have been pre-tested. Power adapter power supply is identified as the worst case scenario and only the worst results are reflected in the report.

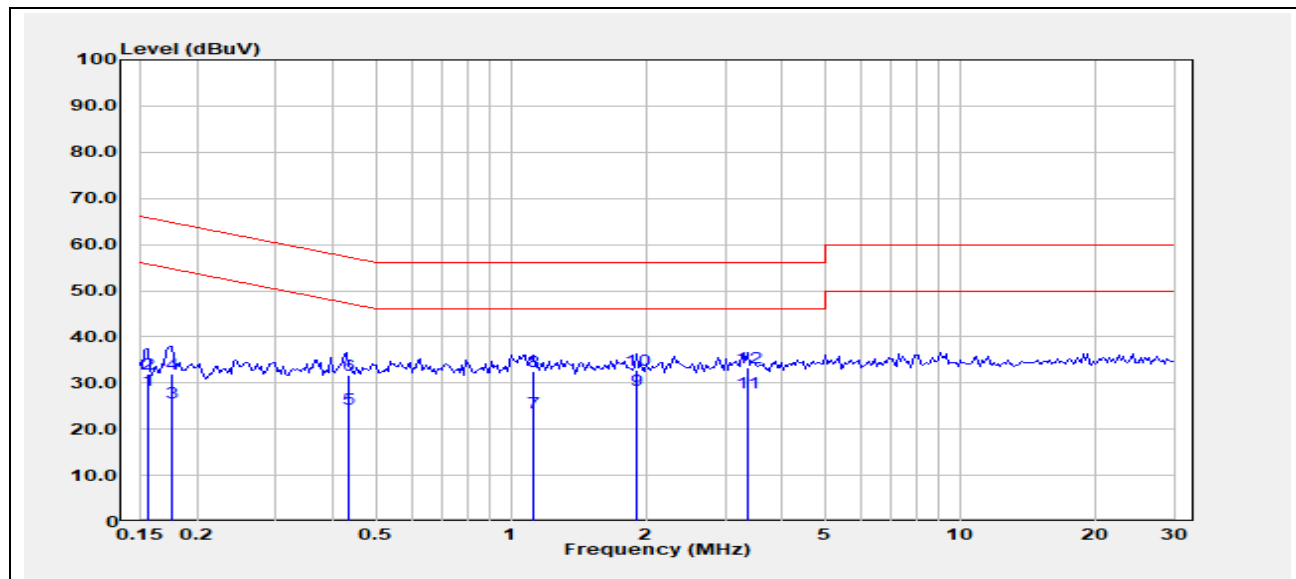
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Test Mode: 00; Line: Live line



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1552	8.12	20.23	28.35	55.72	-27.37	Average
2	0.1552	11.66	20.23	31.89	65.72	-33.83	QP
3	0.1759	5.52	20.14	25.66	54.68	-29.02	Average
4	0.1759	11.91	20.14	32.05	64.68	-32.63	QP
5	0.4336	4.28	20.05	24.33	47.18	-22.85	Average
6	0.4336	11.71	20.05	31.76	57.18	-25.42	QP
7	1.1180	3.62	19.89	23.51	46.00	-22.49	Average
8	1.1180	12.54	19.89	32.43	56.00	-23.57	QP
9	1.9020	8.43	20.05	28.48	46.00	-17.52	Average
10	1.9020	12.73	20.05	32.78	56.00	-23.22	QP
11	3.3600	8.11	19.88	27.99	46.00	-18.01	Average
12	3.3600	13.57	19.88	33.45	56.00	-22.55	QP

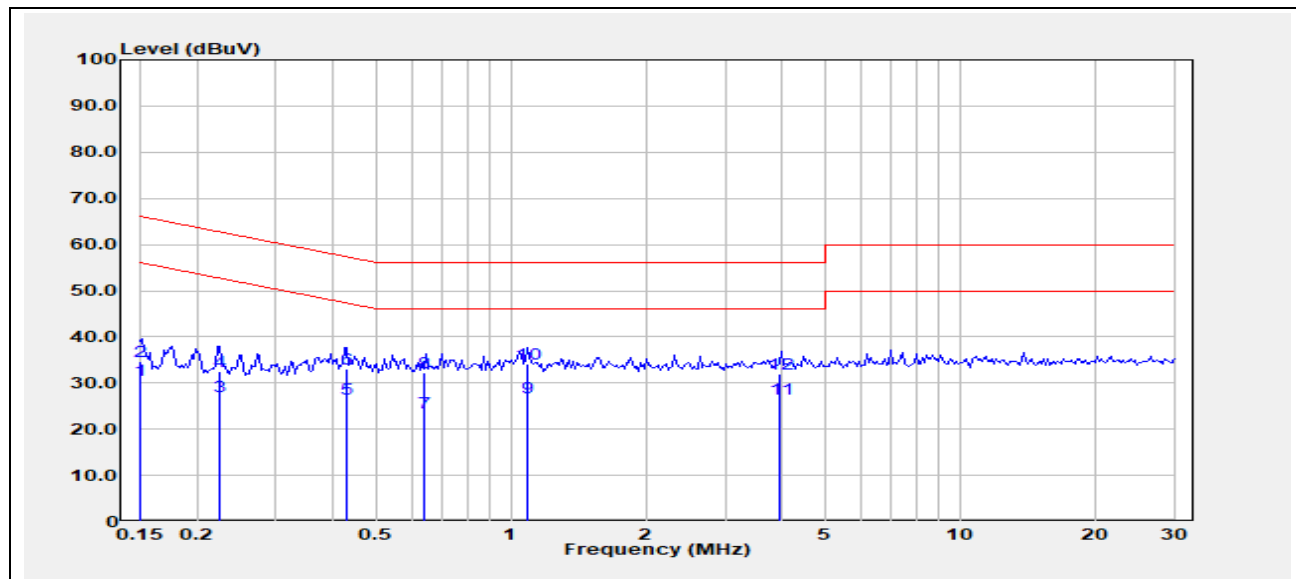
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Test Mode: 00; Line: Neutral Line



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1501	10.31	20.18	30.49	55.99	-25.50	Average
2	0.1501	14.41	20.18	34.59	65.99	-31.40	QP
3	0.2238	6.98	20.10	27.08	52.68	-25.60	Average
4	0.2238	12.53	20.10	32.63	62.68	-30.05	QP
5	0.4299	6.48	20.06	26.54	47.26	-20.72	Average
6	0.4299	12.92	20.06	32.98	57.26	-24.28	QP
7	0.6426	3.72	19.86	23.58	46.00	-22.42	Average
8	0.6426	12.33	19.86	32.19	56.00	-23.81	QP
9	1.0900	6.81	19.91	26.72	46.00	-19.28	Average
10	1.0900	14.37	19.91	34.28	56.00	-21.72	QP
11	3.9860	6.76	19.91	26.67	46.00	-19.33	Average
12	3.9860	12.20	19.91	32.11	56.00	-23.89	QP

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### 7.2 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3M

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

#### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C

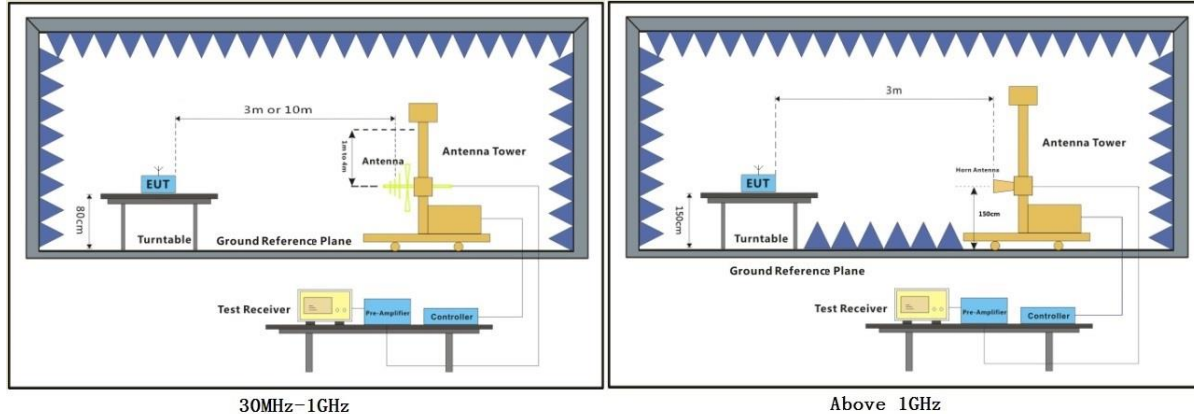
Humidity: 45.2 % RH

Atmospheric Pressure: 1010 mbar

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

### 7.2.3 Test Setup Diagram



### 7.2.4 Measurement Procedure and Data

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

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

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

Remark 3: EUT has two different power supply modes: power adapter power supply and POE power supply, both of which have been pre-tested. Power adapter power supply is identified as the worst case scenario and only the worst results are reflected in the report.

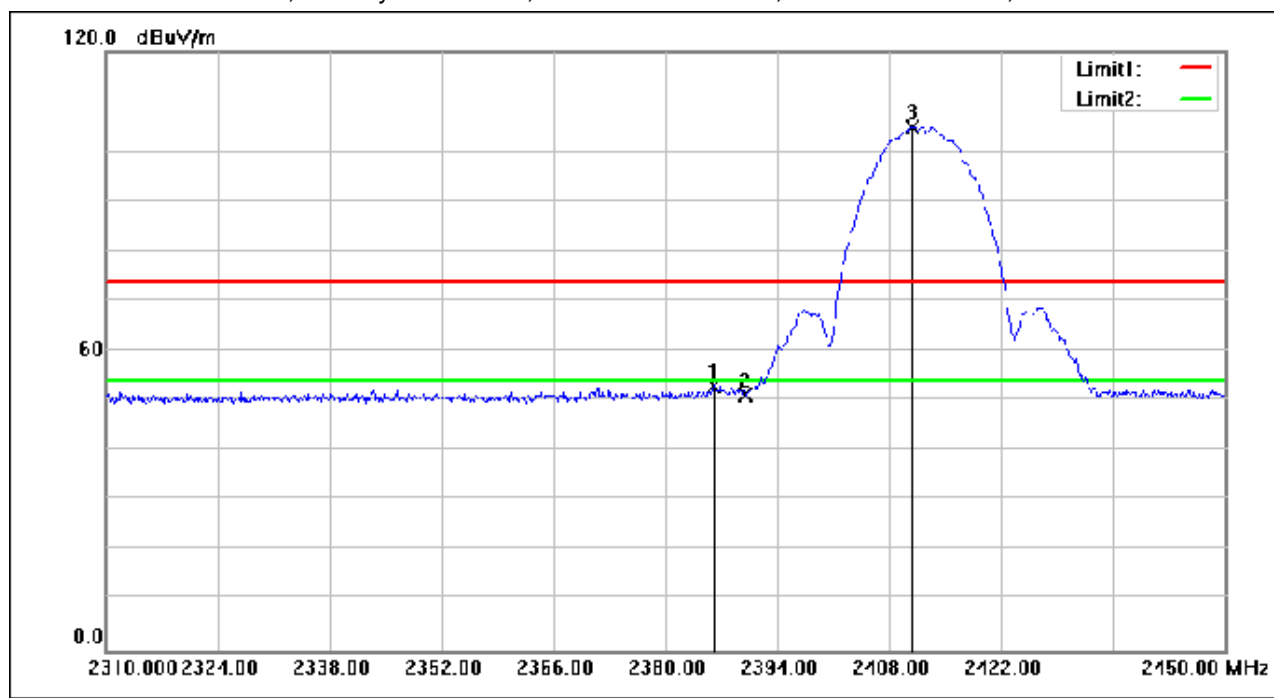
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.020	77.82	-24.72	53.10	74.00	-20.90	peak
2	2390.000	75.99	-24.71	51.28	74.00	-22.72	peak
3	2410.800	129.45	-24.61	104.84	74.00	30.84	peak



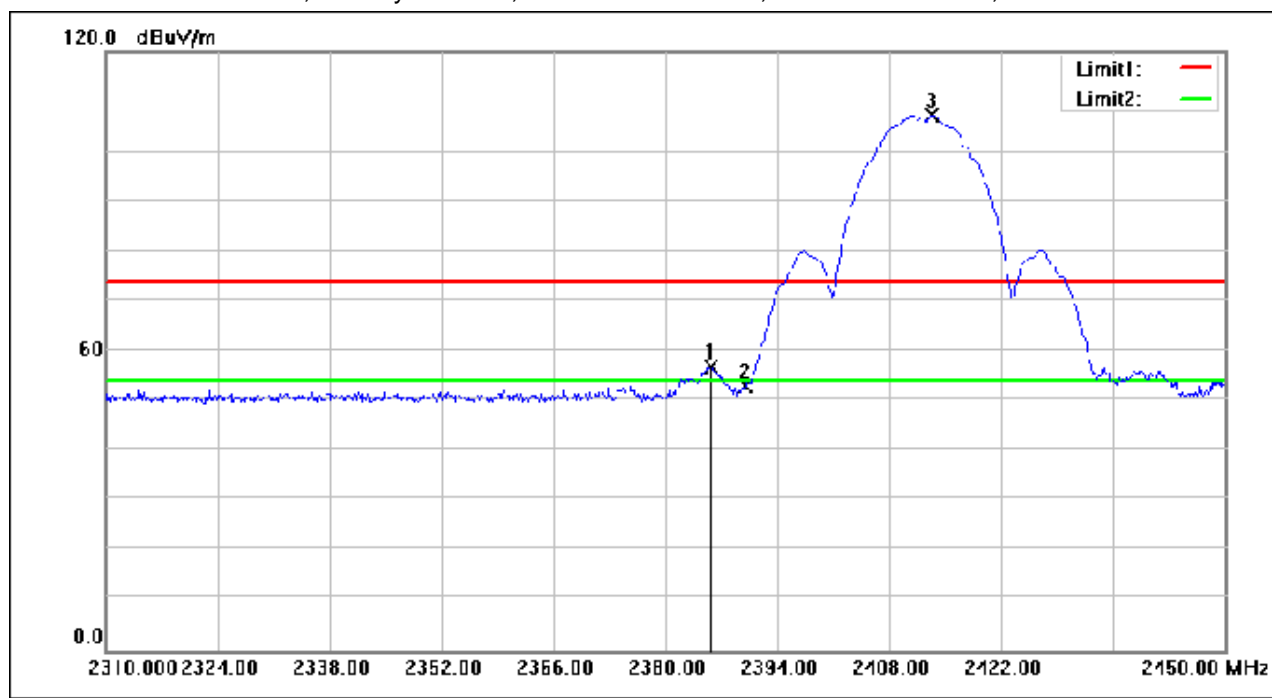
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.600	81.70	-24.73	56.97	74.00	-17.03	peak
2	2390.000	77.59	-24.71	52.88	74.00	-21.12	peak
3	2413.320	131.79	-24.60	107.19	74.00	33.19	peak

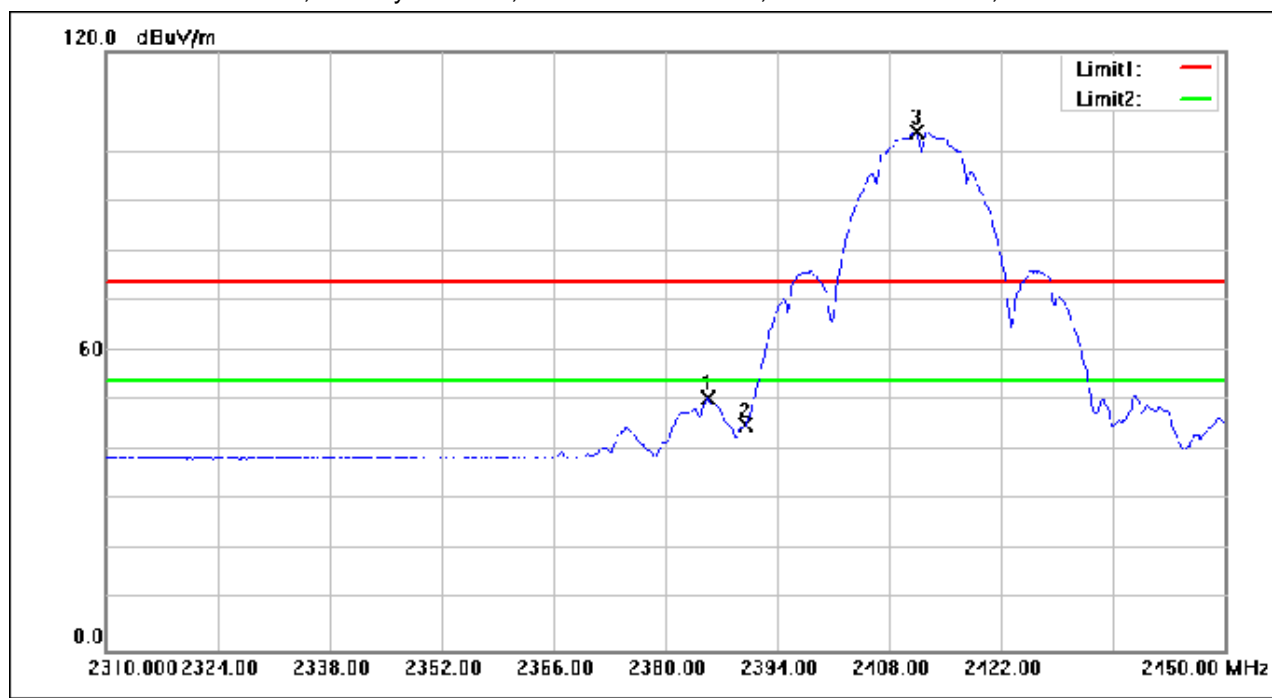
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.320	75.20	-24.73	50.47	54.00	-3.53	AVG
2	2390.000	69.96	-24.71	45.25	54.00	-8.75	AVG
3	2411.360	128.56	-24.60	103.96	54.00	49.96	AVG

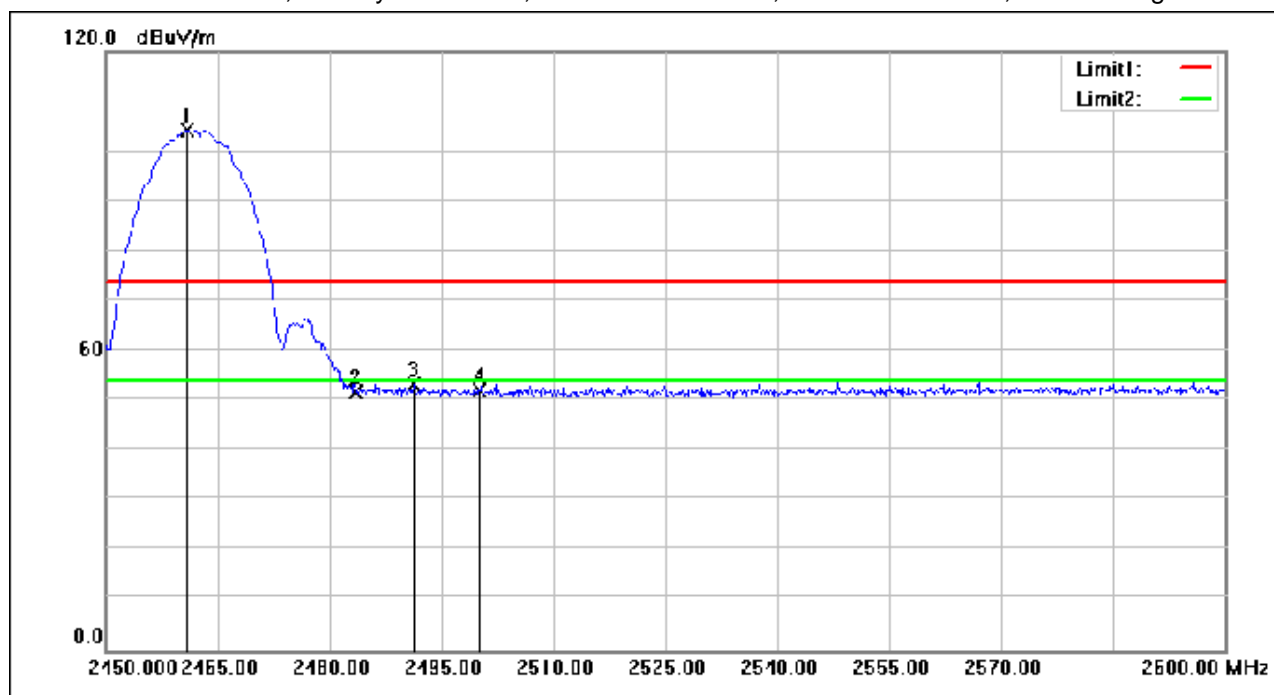
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.950	128.66	-24.38	104.28	74.00	30.28	peak
2	2483.500	75.99	-24.27	51.72	74.00	-22.28	peak
3	2491.250	77.44	-24.24	53.20	74.00	-20.80	peak
4	2500.000	76.13	-24.19	51.94	74.00	-22.06	peak

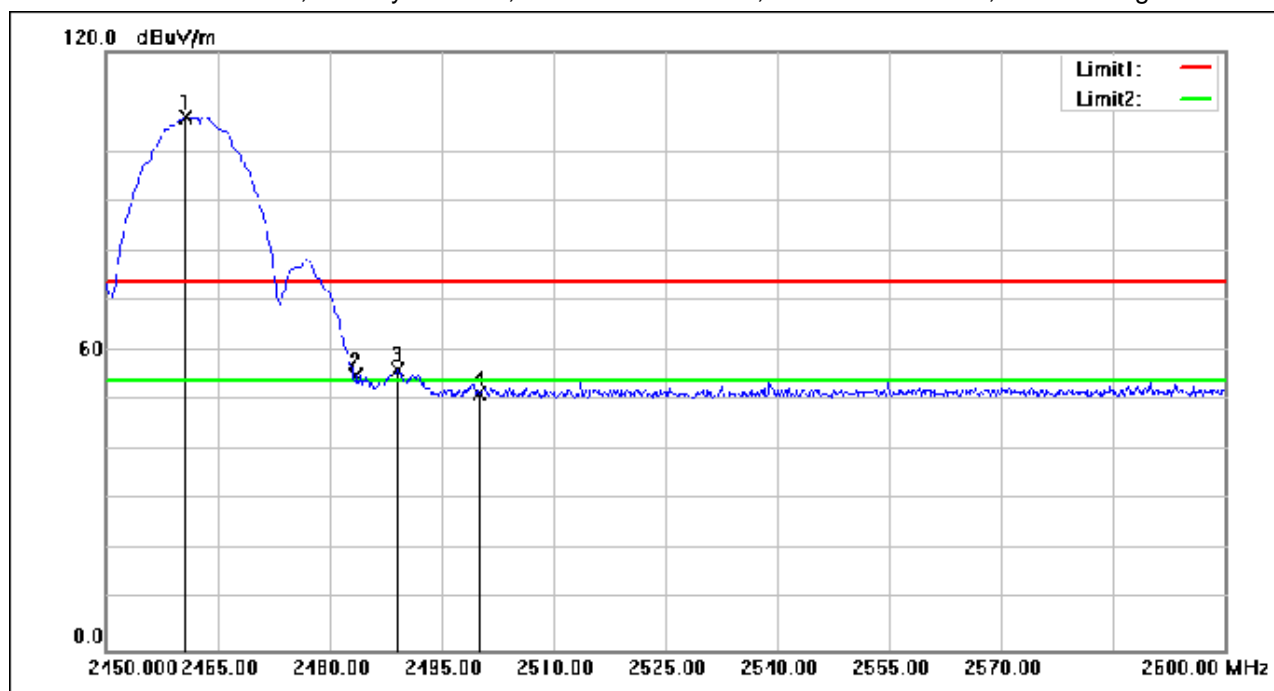
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.650	131.38	-24.38	107.00	74.00	33.00	peak
2	2483.500	79.19	-24.27	54.92	74.00	-19.08	peak
3	2489.150	80.50	-24.24	56.26	74.00	-17.74	peak
4	2500.000	75.72	-24.19	51.53	74.00	-22.47	peak

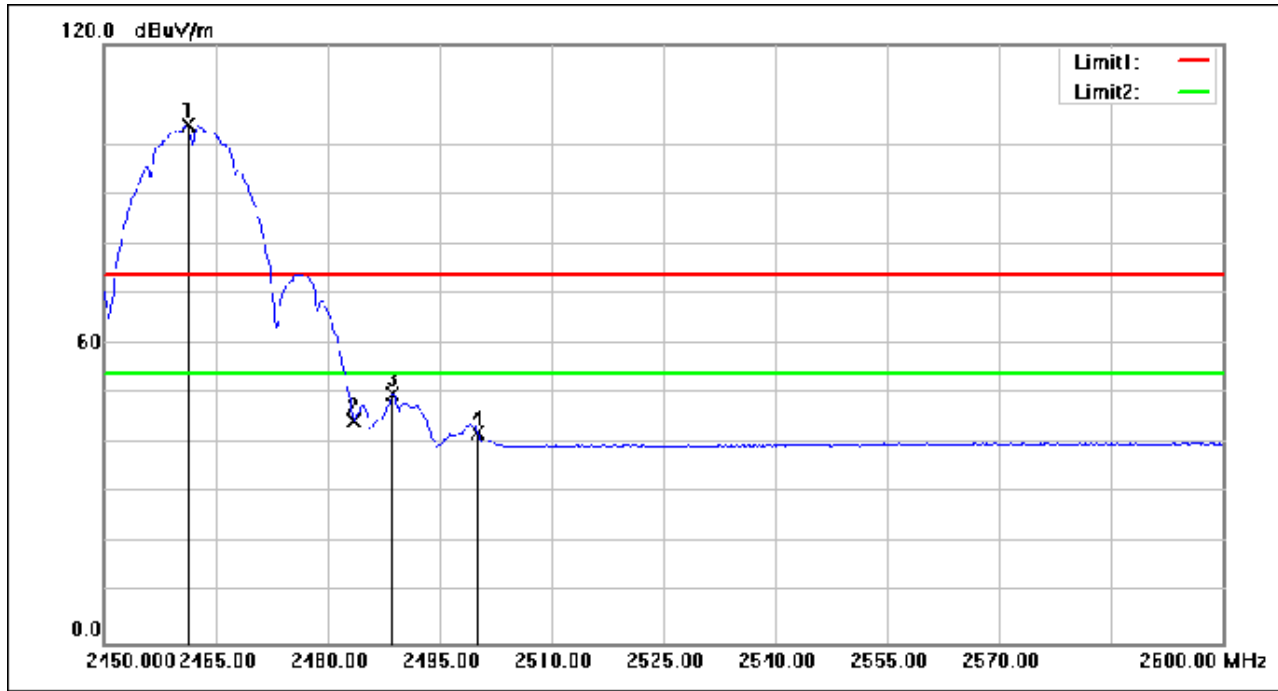
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.250	128.21	-24.37	103.84	54.00	49.84	AVG
2	2483.500	68.86	-24.27	44.59	54.00	-9.41	AVG
3	2488.700	74.28	-24.25	50.03	54.00	-3.97	AVG
4	2500.000	66.47	-24.19	42.28	54.00	-11.72	AVG

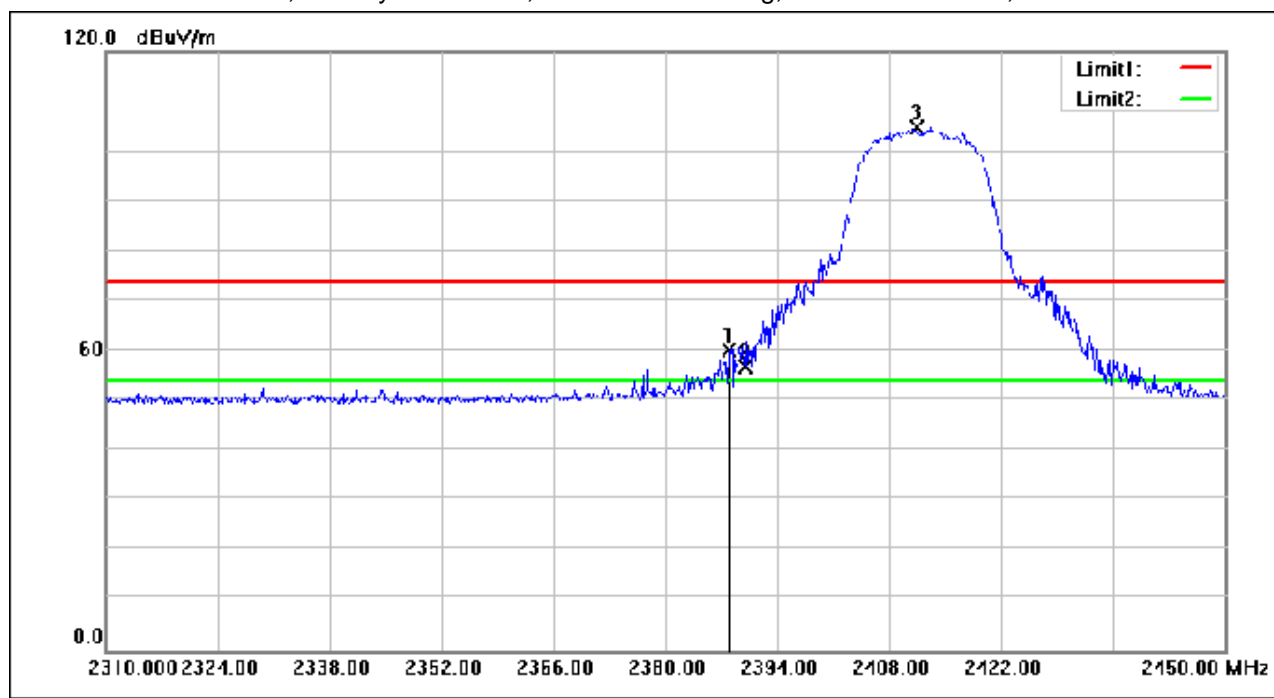
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.840	84.75	-24.72	60.03	74.00	-13.97	peak
2	2390.000	81.57	-24.71	56.86	74.00	-17.14	peak
3	2411.500	129.57	-24.60	104.97	74.00	30.97	peak

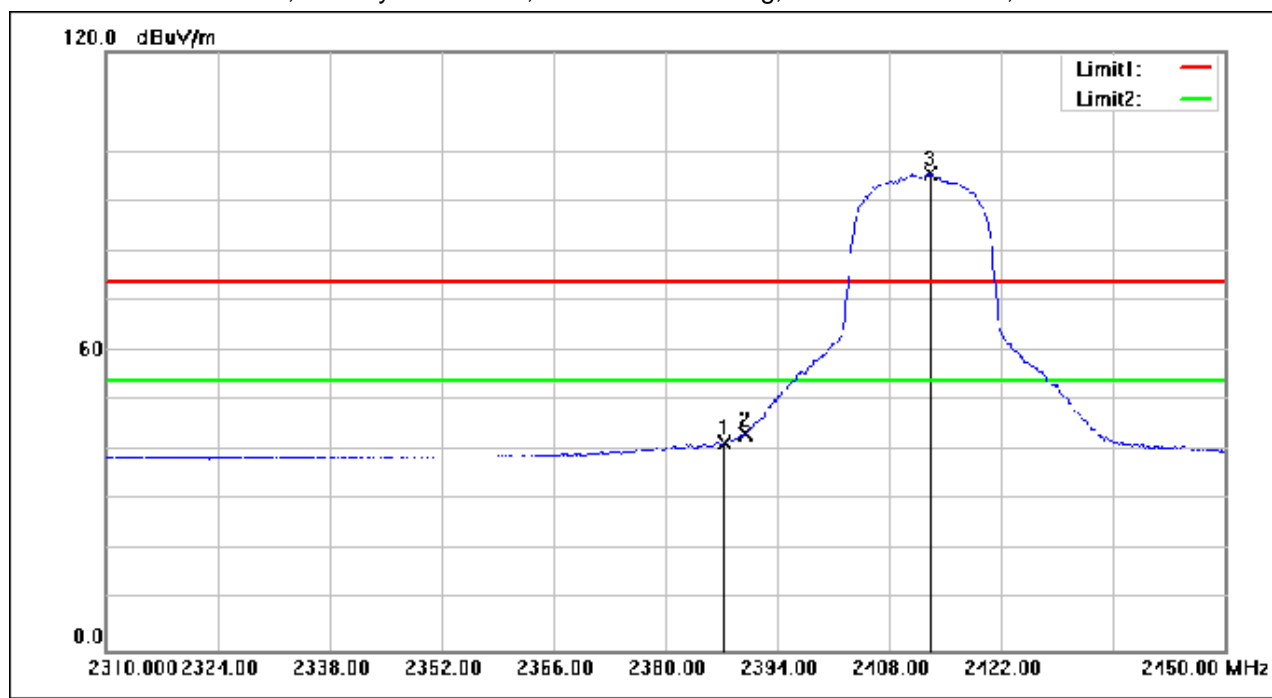
## Compliance Certification Services (Kunshan) Inc.

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.420	66.39	-24.72	41.67	54.00	-12.33	AVG
2	2390.000	68.11	-24.71	43.40	54.00	-10.60	AVG
3	2413.040	120.20	-24.60	95.60	54.00	41.60	AVG

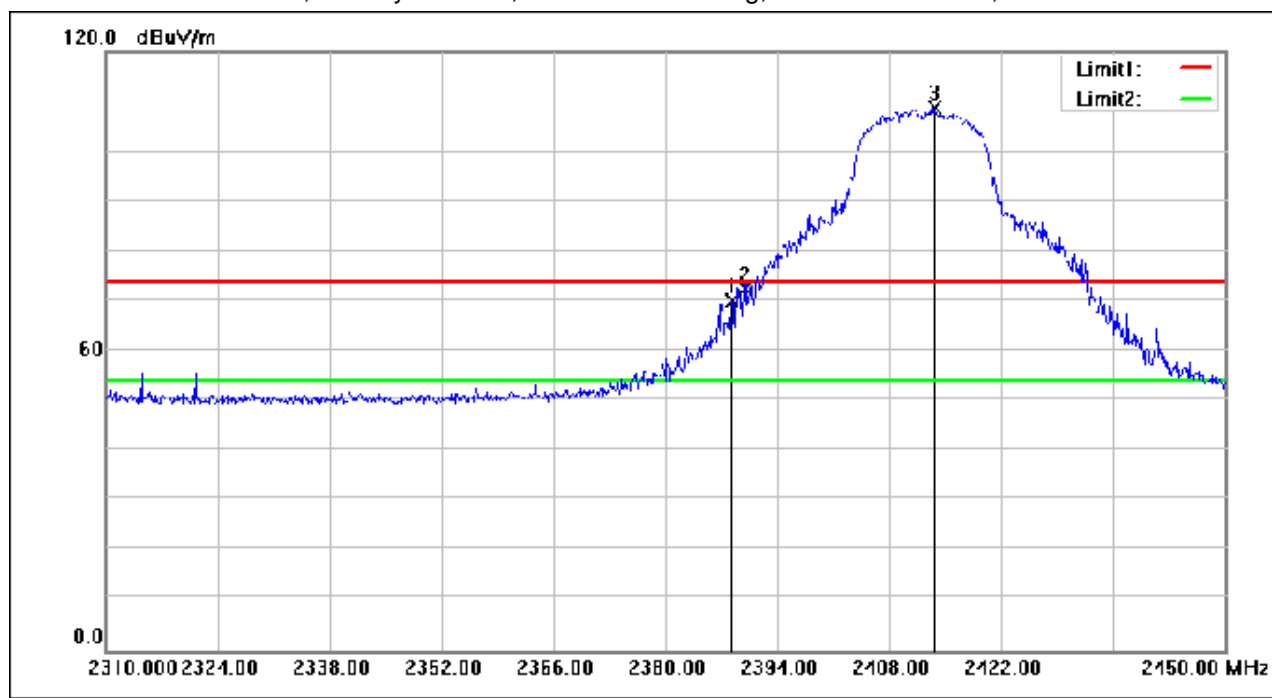
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.260	94.83	-24.72	70.11	74.00	-3.89	peak
2	2390.000	97.09	-24.71	72.38	74.00	-1.62	peak
3	2413.600	133.35	-24.59	108.76	74.00	34.76	peak



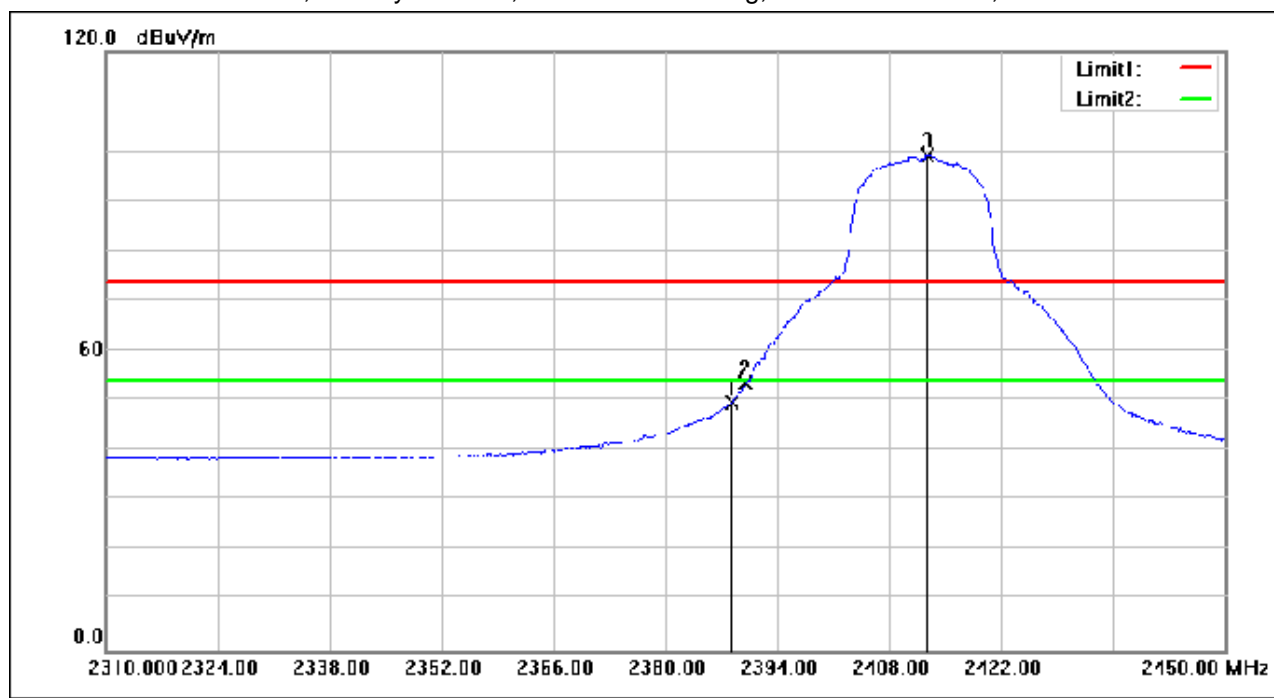
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.260	74.36	-24.72	49.64	54.00	-4.36	AVG
2	2390.000	78.38	-24.71	53.67	54.00	-0.33	AVG
3	2412.760	123.77	-24.60	99.17	54.00	45.17	AVG

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.500	128.49	-24.38	104.11	74.00	30.11	peak
2	2483.500	79.60	-24.27	55.33	74.00	-18.67	peak
3	2485.400	86.03	-24.26	61.77	74.00	-12.23	peak
4	2500.000	76.79	-24.19	52.60	74.00	-21.40	peak

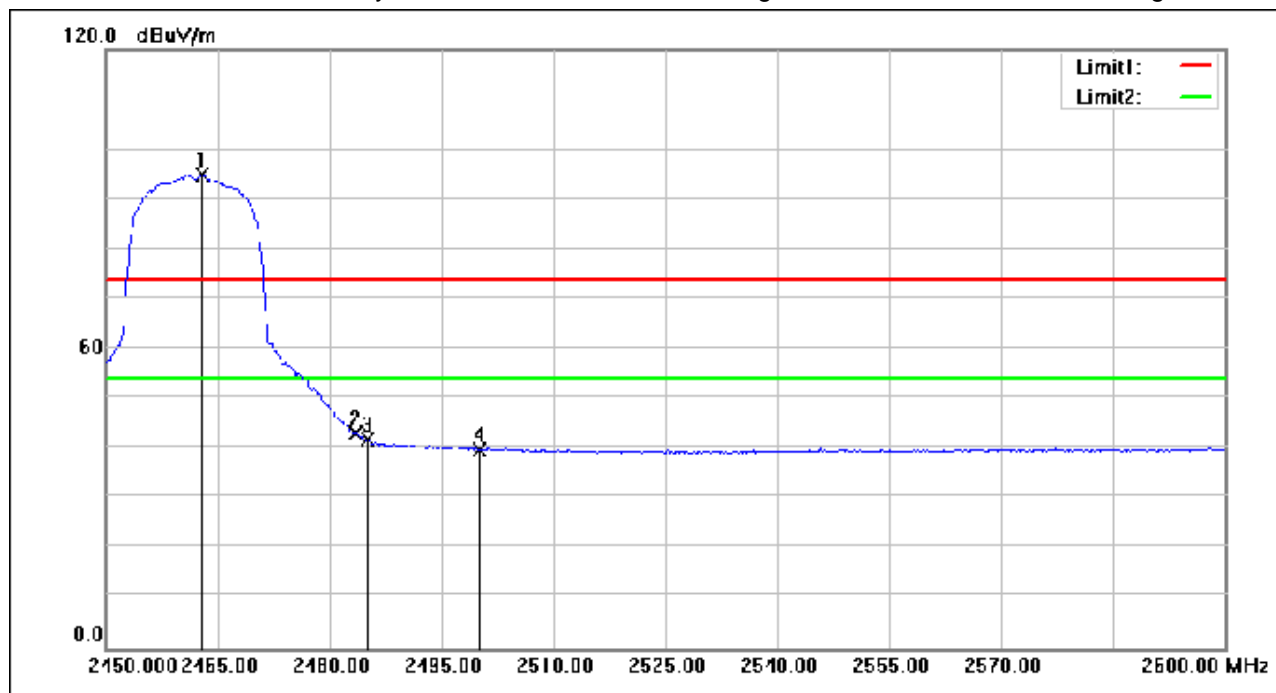
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11g; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.900	119.27	-24.37	94.90	54.00	40.90	AVG
2	2483.500	67.20	-24.27	42.93	54.00	-11.07	AVG
3	2485.100	66.13	-24.26	41.87	54.00	-12.13	AVG
4	2500.000	63.96	-24.19	39.77	54.00	-14.23	AVG

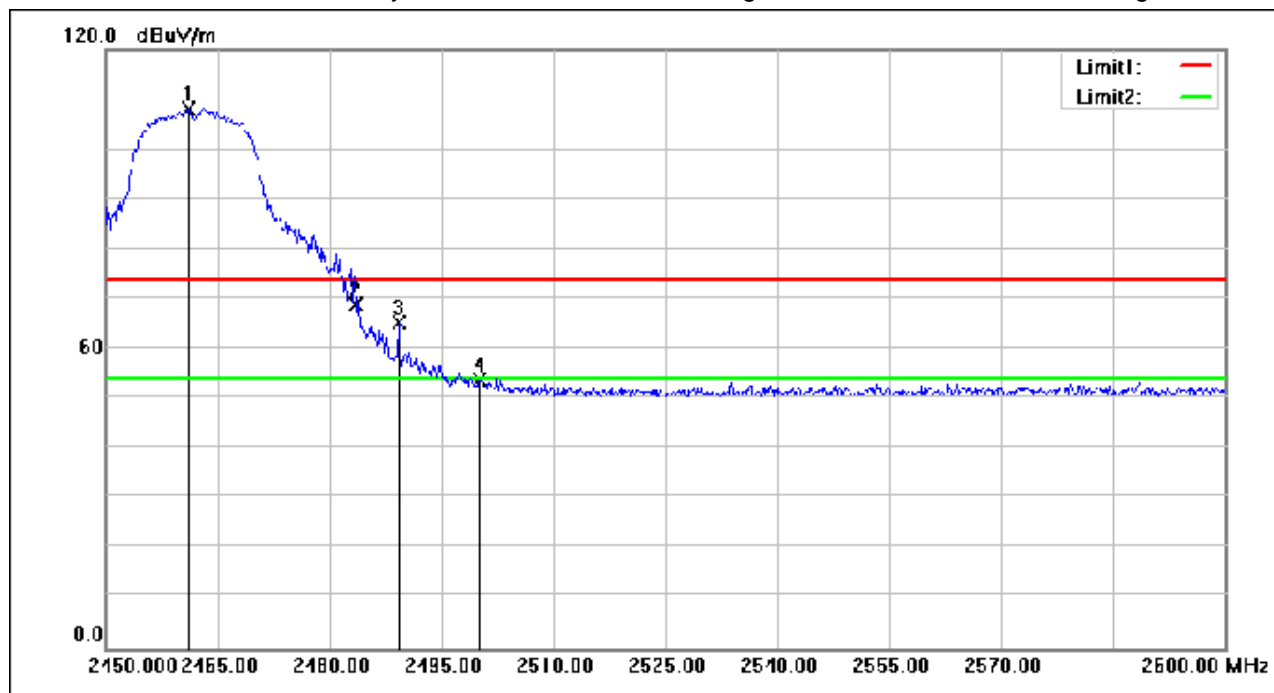
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.100	132.41	-24.38	108.03	74.00	34.03	peak
2	2483.500	93.21	-24.27	68.94	74.00	-5.06	peak
3	2489.300	89.49	-24.24	65.25	74.00	-8.75	peak
4	2500.000	77.89	-24.19	53.70	74.00	-20.30	peak

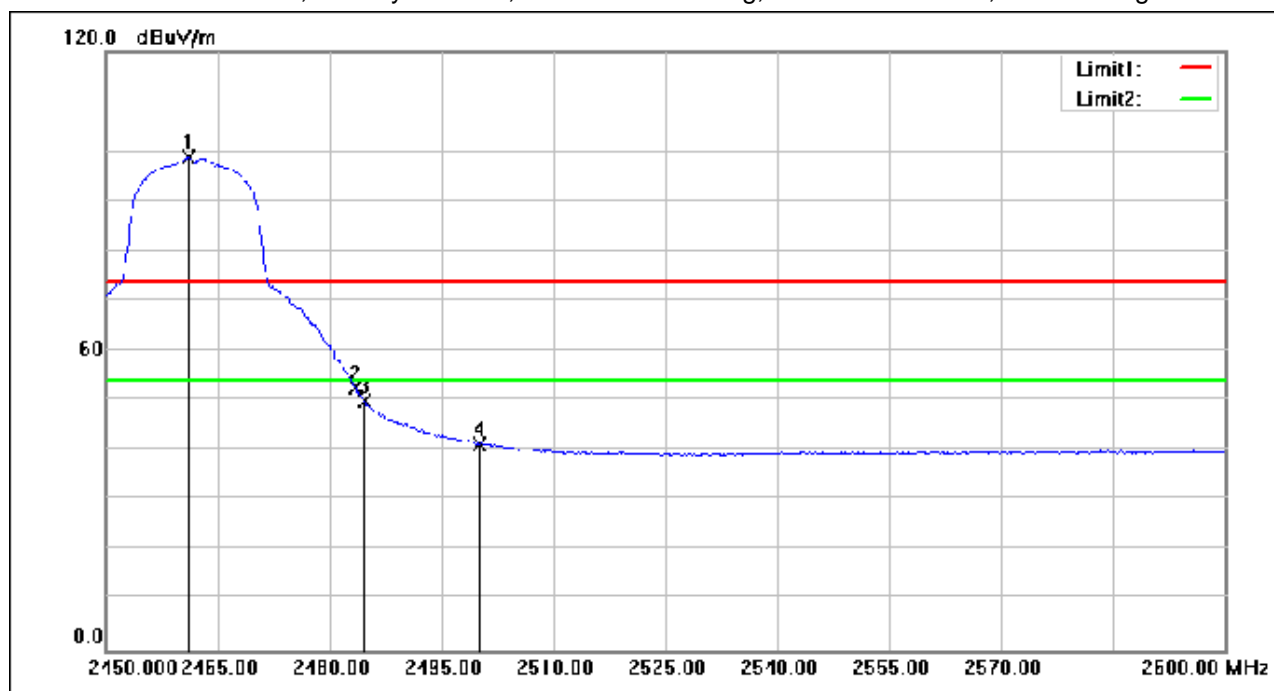
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.100	123.18	-24.38	98.80	54.00	44.80	AVG
2	2483.500	76.95	-24.27	52.68	54.00	-1.32	AVG
3	2484.650	74.20	-24.26	49.94	54.00	-4.06	AVG
4	2500.000	65.51	-24.19	41.32	54.00	-12.68	AVG

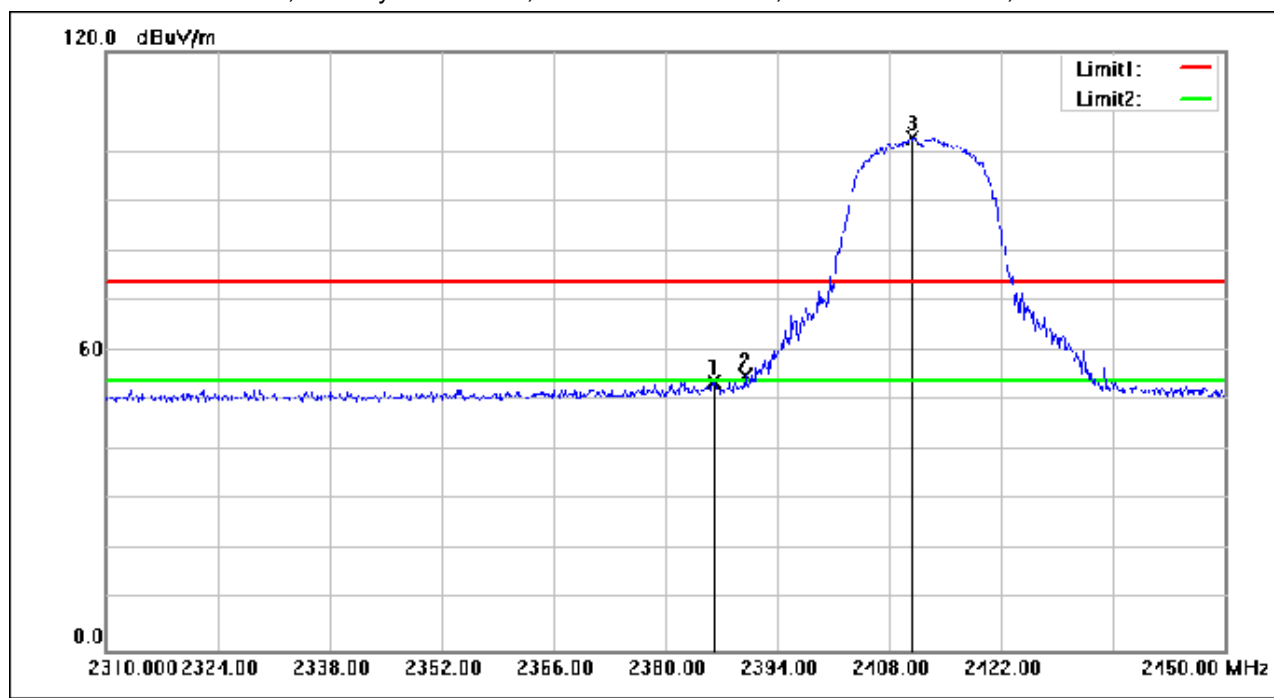
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.020	78.52	-24.72	53.80	74.00	-20.20	peak
2	2390.000	79.66	-24.71	54.95	74.00	-19.05	peak
3	2410.800	127.41	-24.61	102.80	74.00	28.80	peak

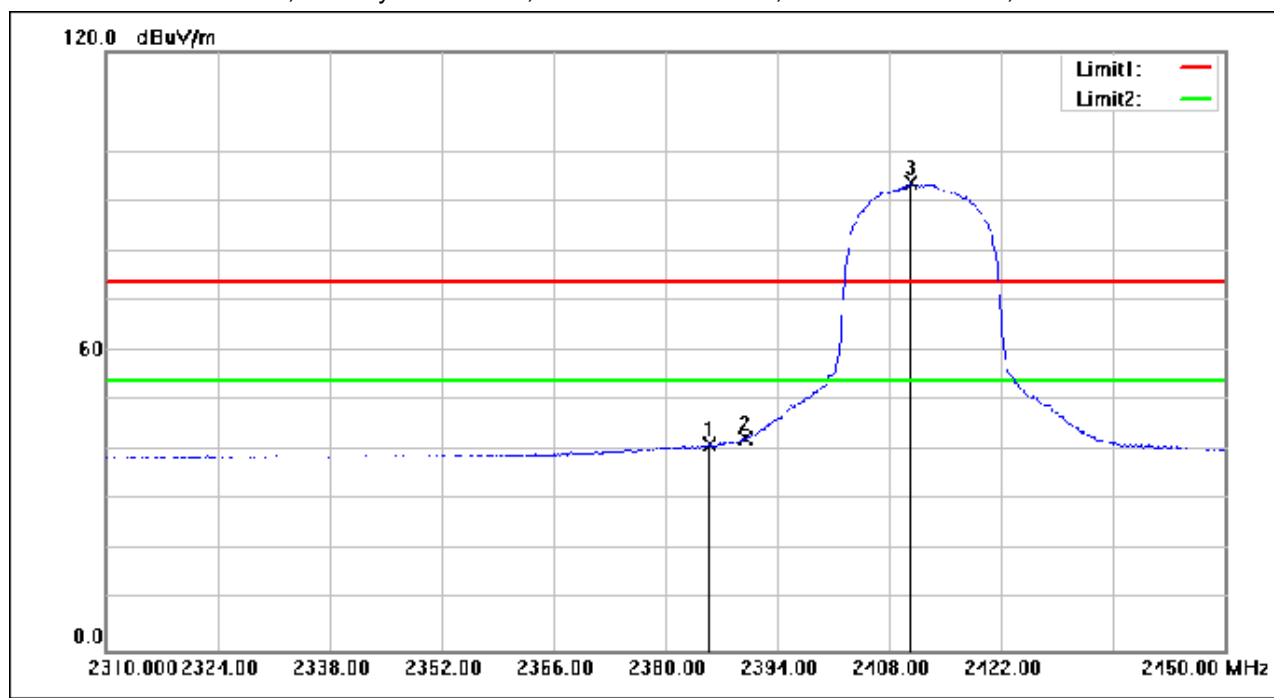
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.460	65.96	-24.73	41.23	54.00	-12.77	AVG
2	2390.000	67.17	-24.71	42.46	54.00	-11.54	AVG
3	2410.660	118.24	-24.61	93.63	54.00	39.63	AVG

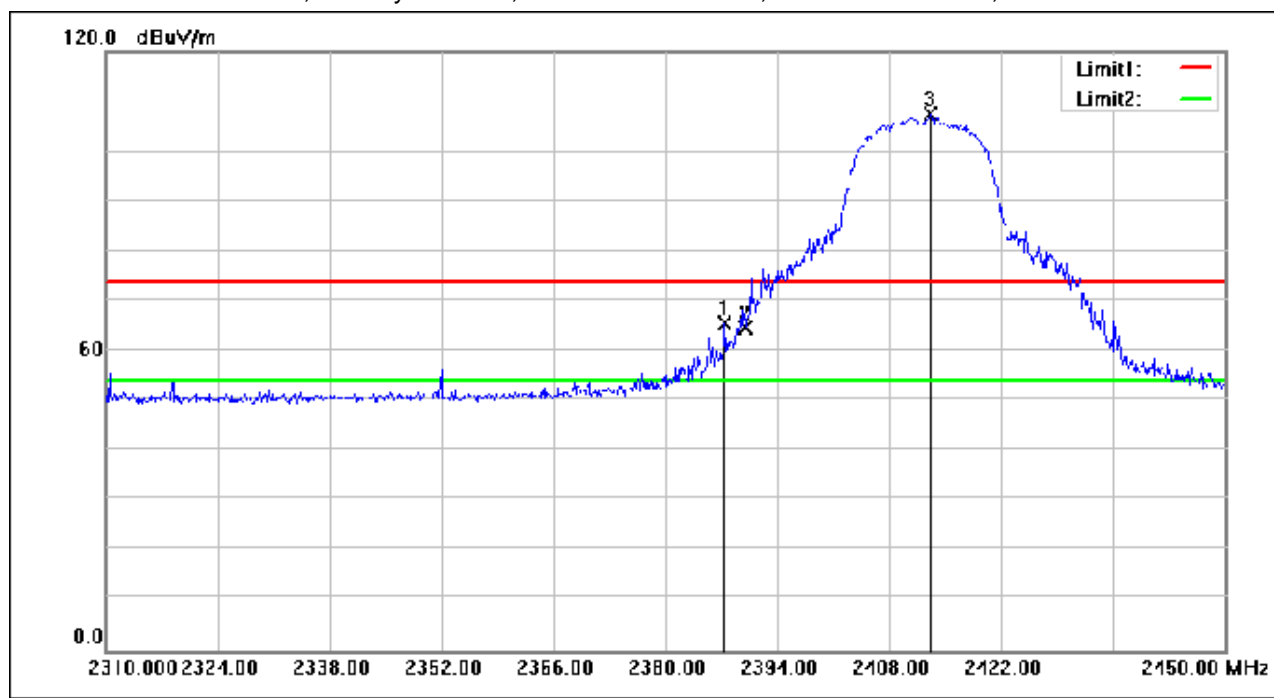
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.420	90.37	-24.72	65.65	74.00	-8.35	peak
2	2390.000	89.45	-24.71	64.74	74.00	-9.26	peak
3	2413.040	132.19	-24.60	107.59	74.00	33.59	peak



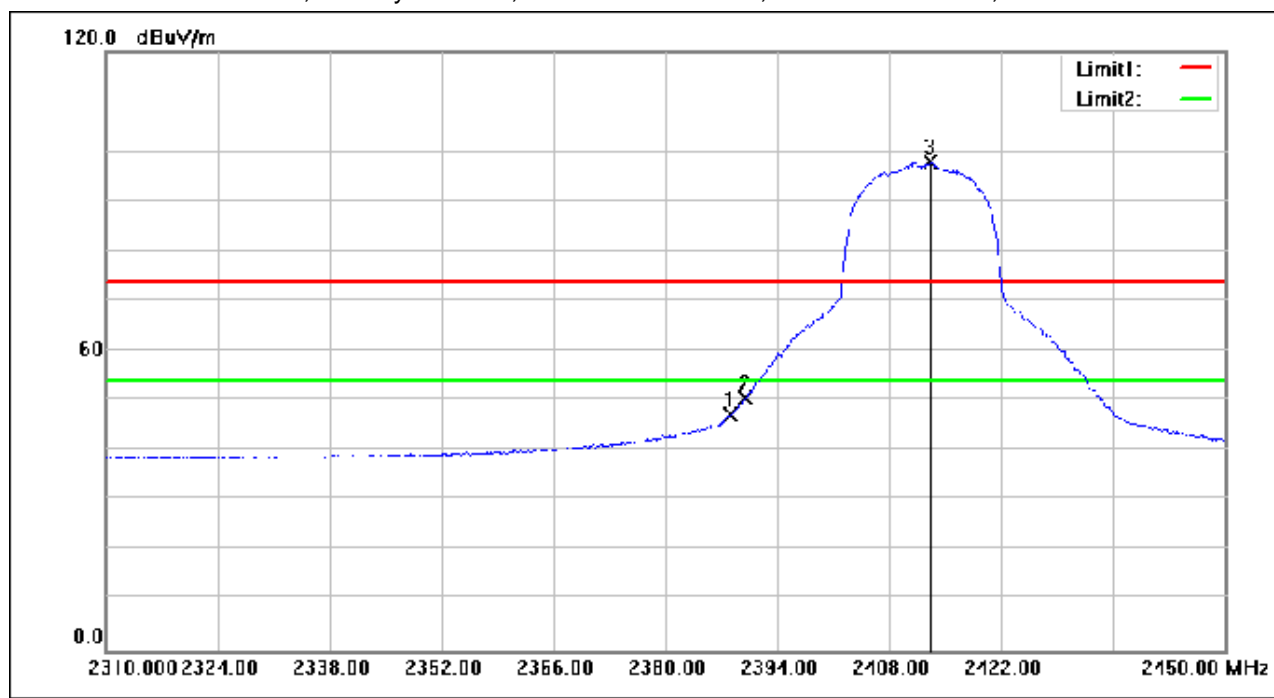
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.120	72.03	-24.72	47.31	54.00	-6.69	AVG
2	2390.000	75.31	-24.71	50.60	54.00	-3.40	AVG
3	2413.180	122.44	-24.60	97.84	54.00	43.84	AVG

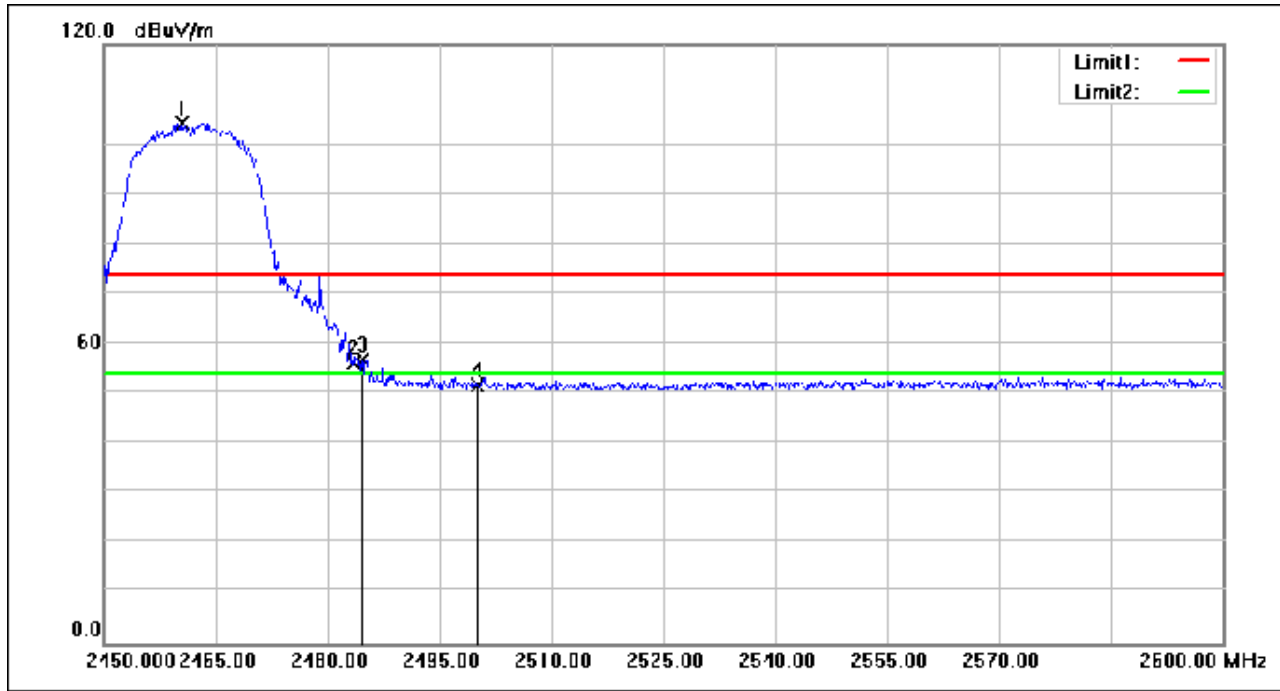
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.500	128.69	-24.38	104.31	74.00	30.31	peak
2	2483.500	80.45	-24.27	56.18	74.00	-17.82	peak
3	2484.650	81.23	-24.26	56.97	74.00	-17.03	peak
4	2500.000	75.95	-24.19	51.76	74.00	-22.24	peak

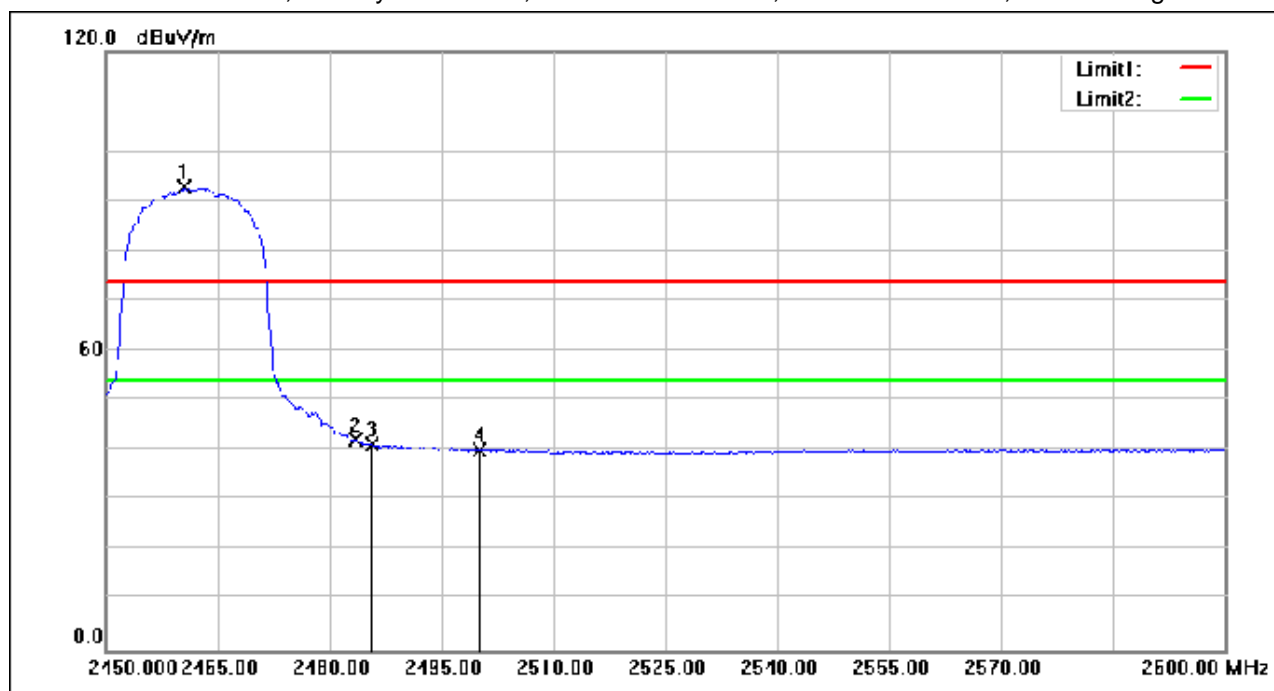
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.500	117.24	-24.38	92.86	54.00	38.86	AVG
2	2483.500	66.46	-24.27	42.19	54.00	-11.81	AVG
3	2485.700	65.59	-24.26	41.33	54.00	-12.67	AVG
4	2500.000	64.24	-24.19	40.05	54.00	-13.95	AVG

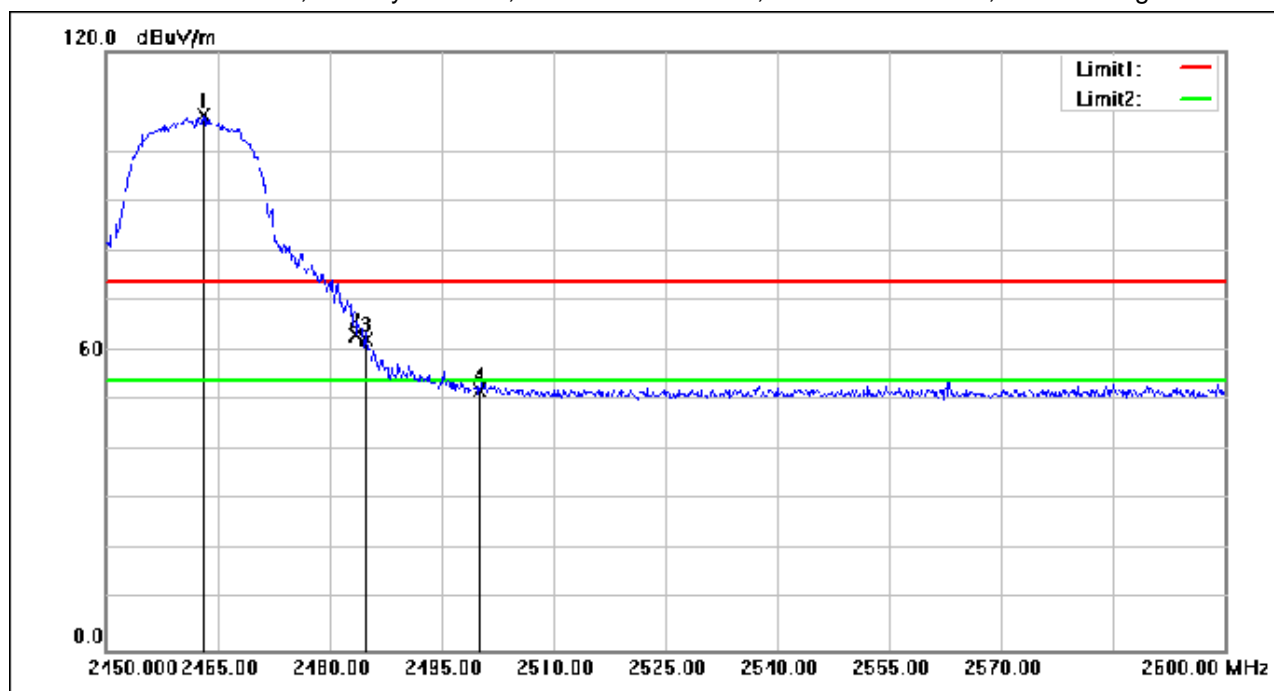
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.050	131.73	-24.37	107.36	74.00	33.36	peak
2	2483.500	87.29	-24.27	63.02	74.00	-10.98	peak
3	2484.950	86.60	-24.26	62.34	74.00	-11.66	peak
4	2500.000	76.38	-24.19	52.19	74.00	-21.81	peak

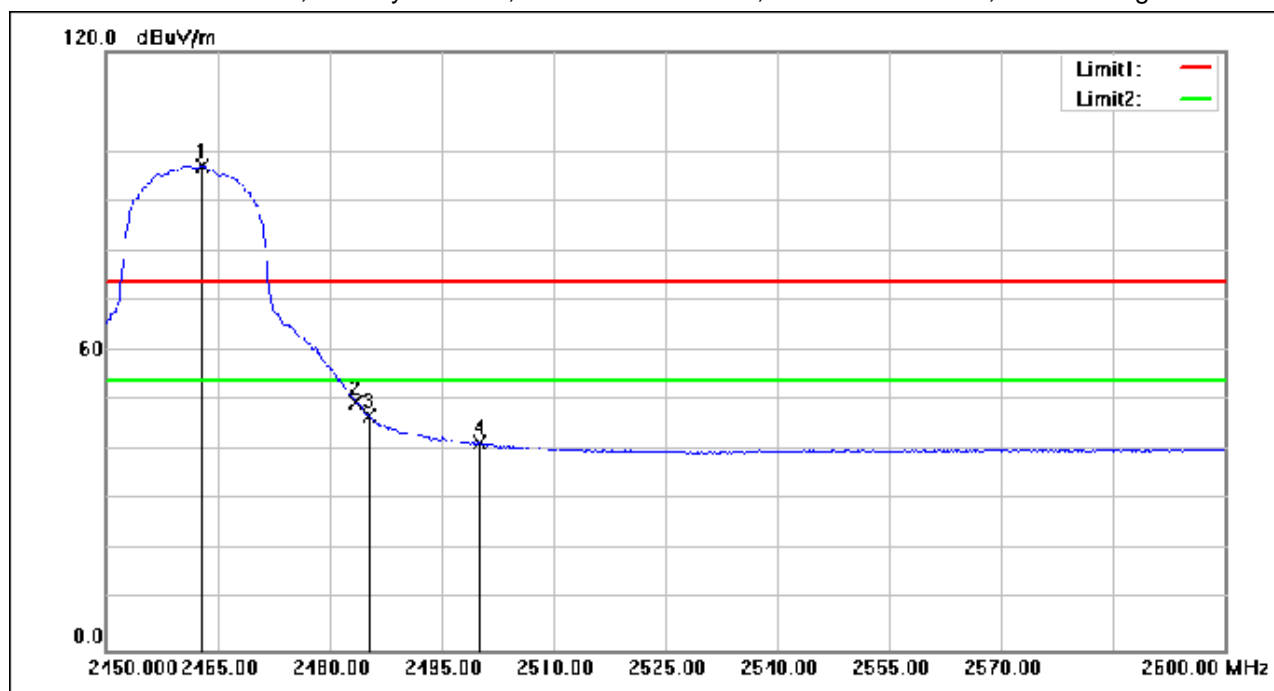
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.900	121.55	-24.37	97.18	54.00	43.18	AVG
2	2483.500	74.03	-24.27	49.76	54.00	-4.24	AVG
3	2485.250	71.22	-24.26	46.96	54.00	-7.04	AVG
4	2500.000	65.64	-24.19	41.45	54.00	-12.55	AVG

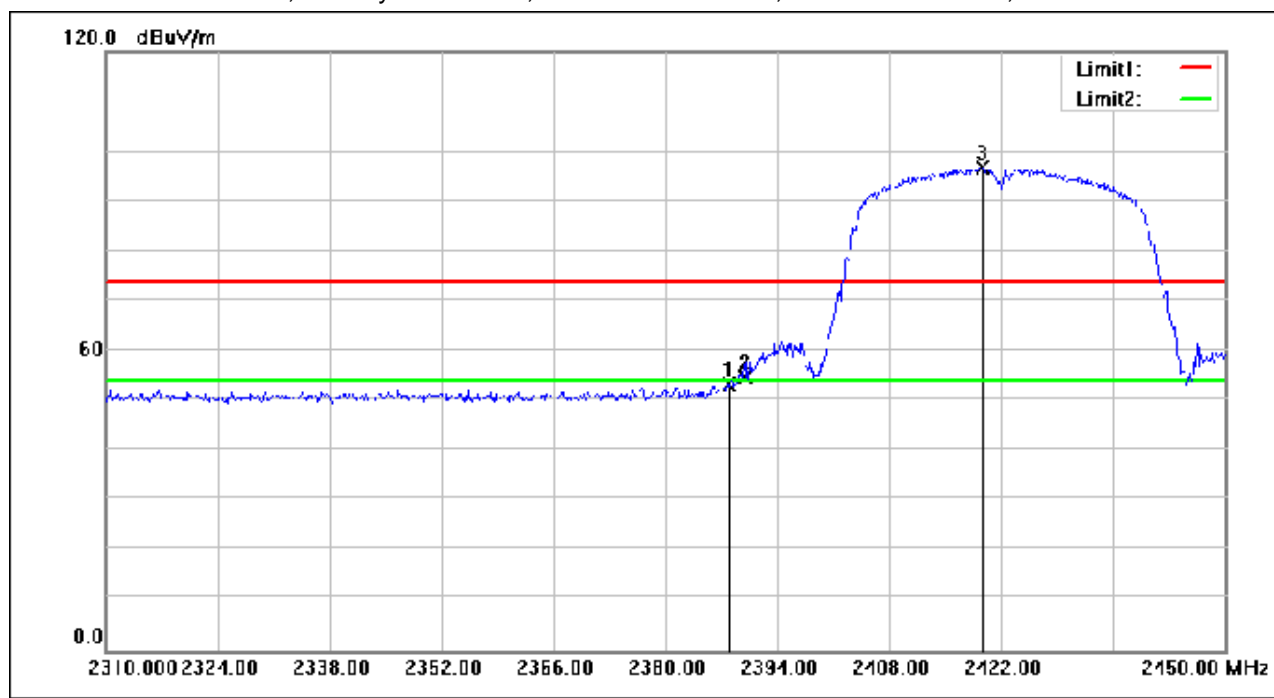
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.840	78.03	-24.72	53.31	74.00	-20.69	peak
2	2390.000	79.58	-24.71	54.87	74.00	-19.13	peak
3	2419.620	121.21	-24.57	96.64	74.00	22.64	peak

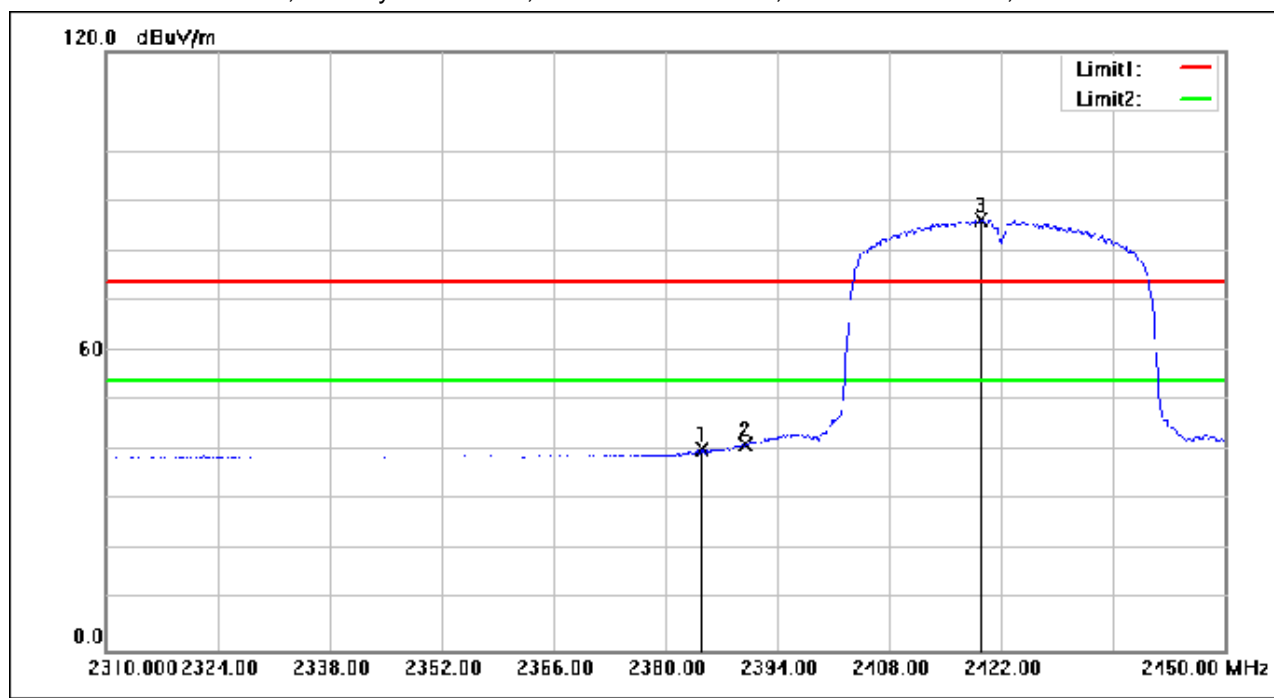
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.620	65.01	-24.73	40.28	54.00	-13.72	AVG
2	2390.000	65.94	-24.71	41.23	54.00	-12.77	AVG
3	2419.480	110.94	-24.57	86.37	54.00	32.37	AVG

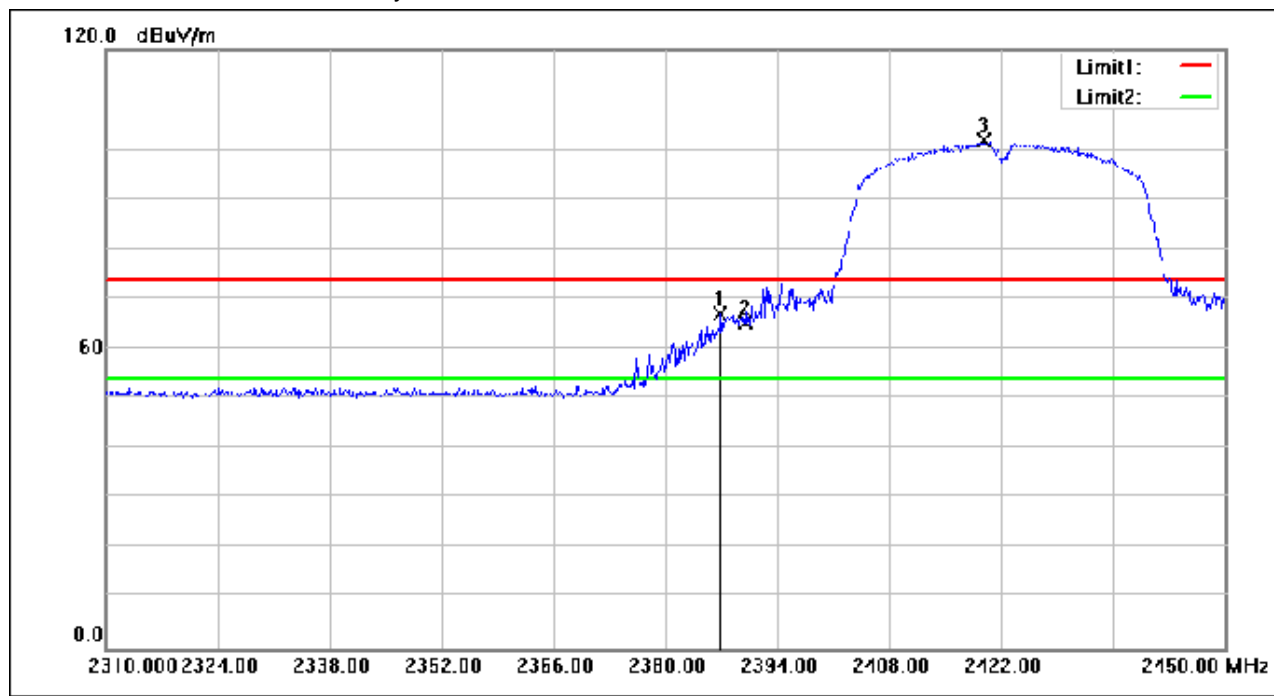
## Compliance Certification Services (Kunshan) Inc.

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.860	91.63	-24.72	66.91	74.00	-7.09	peak
2	2390.000	89.97	-24.71	65.26	74.00	-8.74	peak
3	2419.900	126.38	-24.57	101.81	74.00	27.81	peak



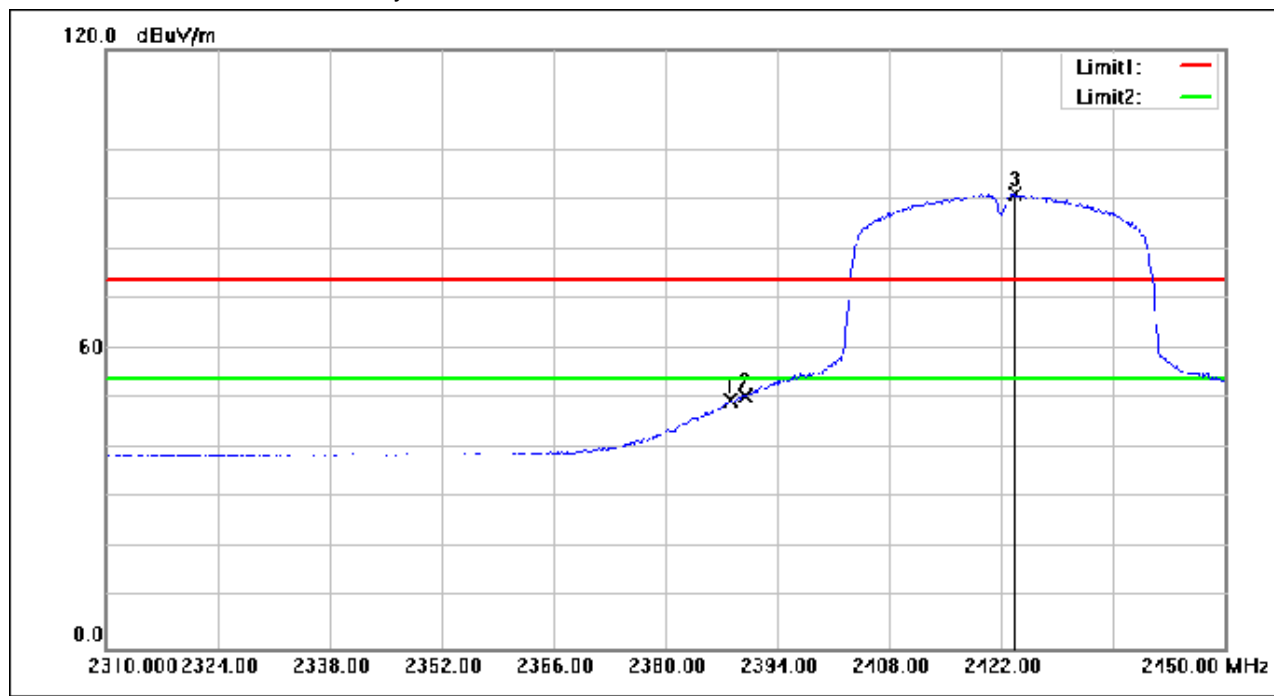
## Compliance Certification Services (Kunshan) Inc.

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.120	74.37	-24.72	49.65	54.00	-4.35	AVG
2	2390.000	75.28	-24.71	50.57	54.00	-3.43	AVG
3	2423.680	115.68	-24.54	91.14	54.00	37.14	AVG

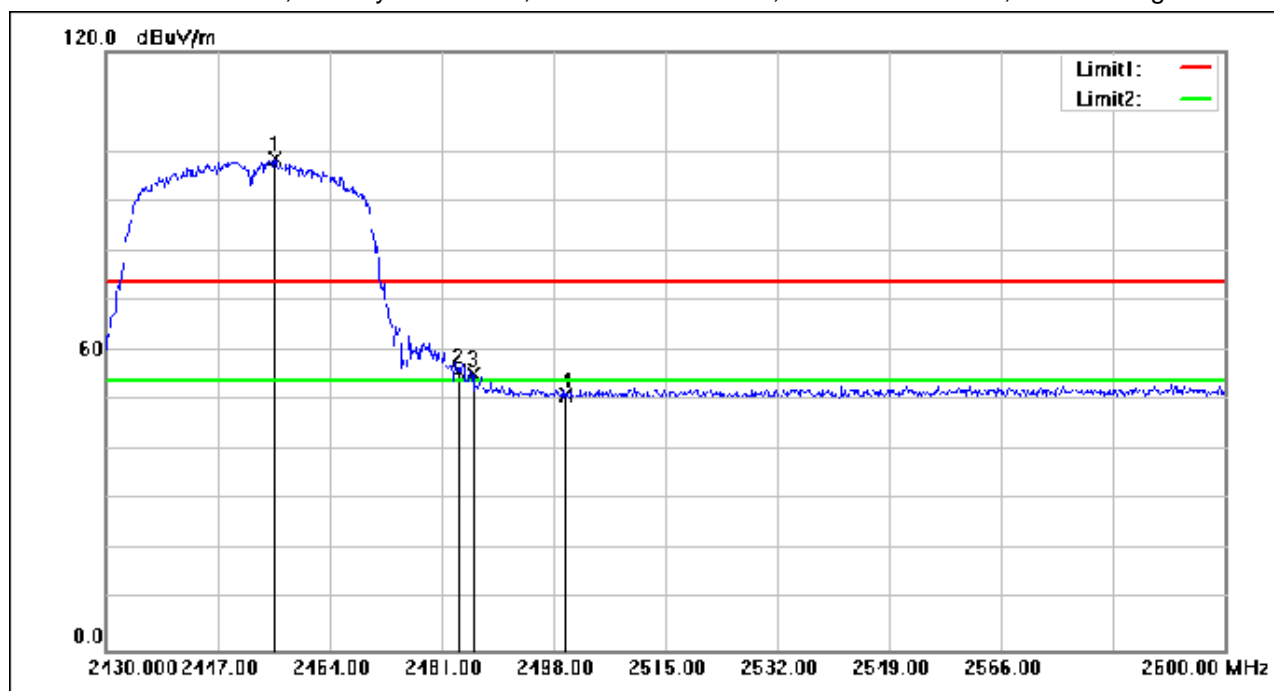
## Compliance Certification Services (Kunshan) Inc.

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2455.670	123.01	-24.40	98.61	74.00	24.61	peak
2	2483.500	80.16	-24.27	55.89	74.00	-18.11	peak
3	2485.930	79.48	-24.26	55.22	74.00	-18.78	peak
4	2500.000	75.41	-24.19	51.22	74.00	-22.78	peak

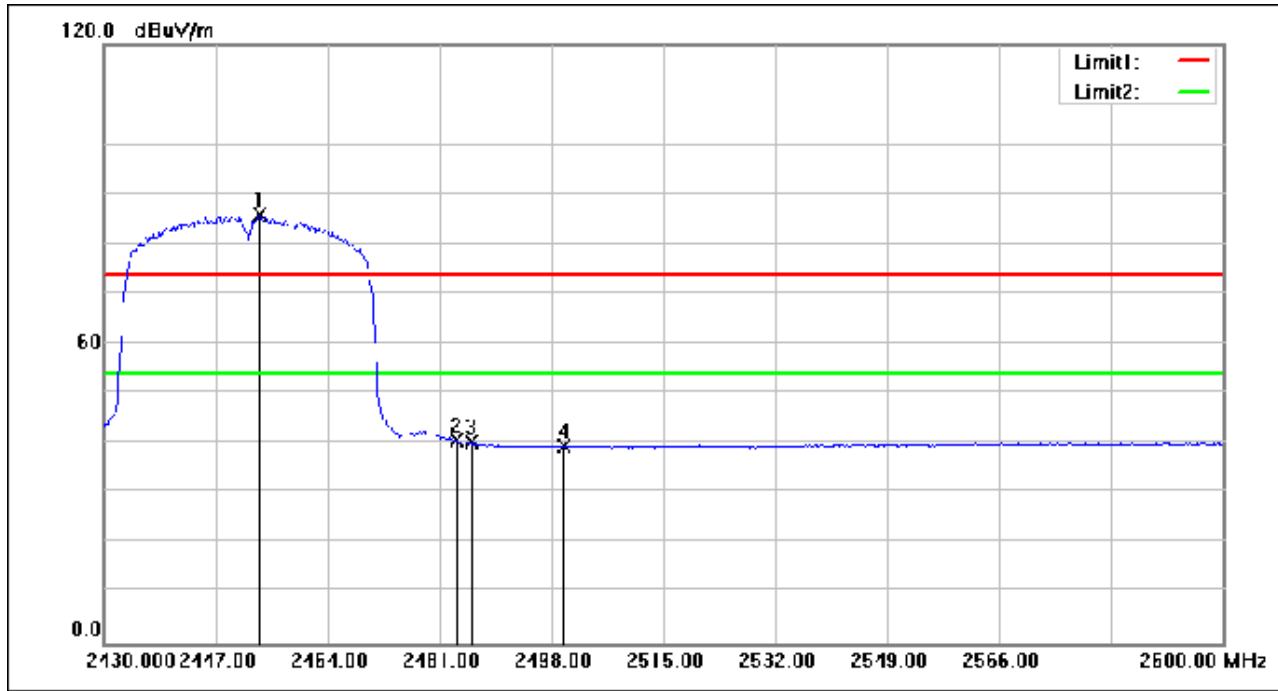
## Compliance Certification Services (Kunshan) Inc.

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2453.630	110.28	-24.41	85.87	54.00	31.87	AVG
2	2483.500	64.99	-24.27	40.72	54.00	-13.28	AVG
3	2485.760	64.50	-24.26	40.24	54.00	-13.76	AVG
4	2500.000	63.71	-24.19	39.52	54.00	-14.48	AVG

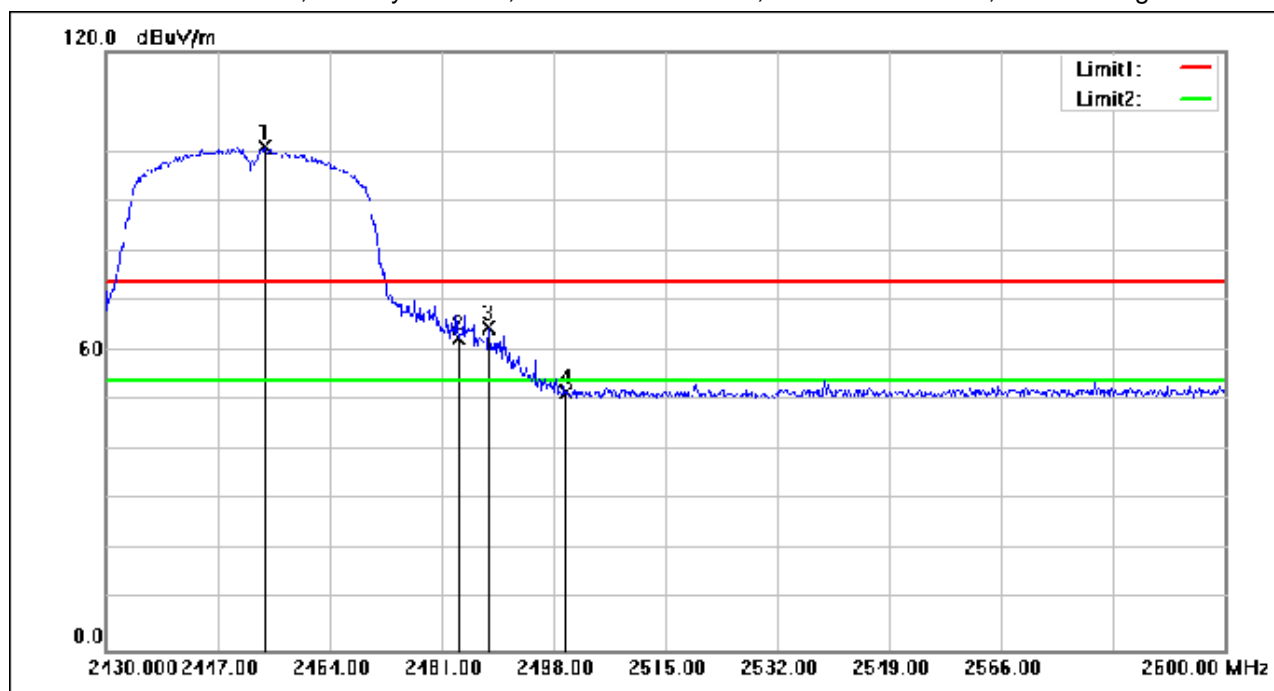
## Compliance Certification Services (Kunshan) Inc.

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2454.140	125.38	-24.40	100.98	74.00	26.98	peak
2	2483.500	86.92	-24.27	62.65	74.00	-11.35	peak
3	2488.140	88.96	-24.25	64.71	74.00	-9.29	peak
4	2500.000	75.98	-24.19	51.79	74.00	-22.21	peak

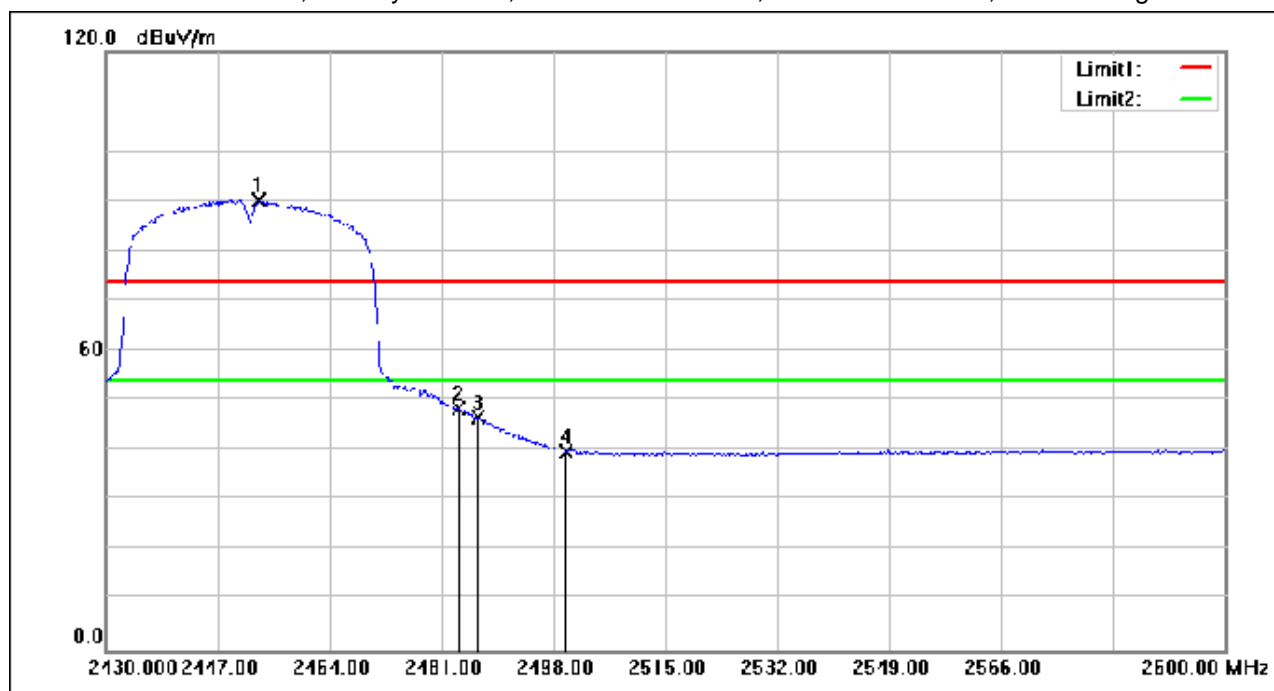
## Compliance Certification Services (Kunshan) Inc.

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2453.290	114.67	-24.41	90.26	54.00	36.26	AVG
2	2483.500	72.71	-24.27	48.44	54.00	-5.56	AVG
3	2486.610	70.98	-24.25	46.73	54.00	-7.27	AVG
4	2500.000	64.09	-24.19	39.90	54.00	-14.10	AVG

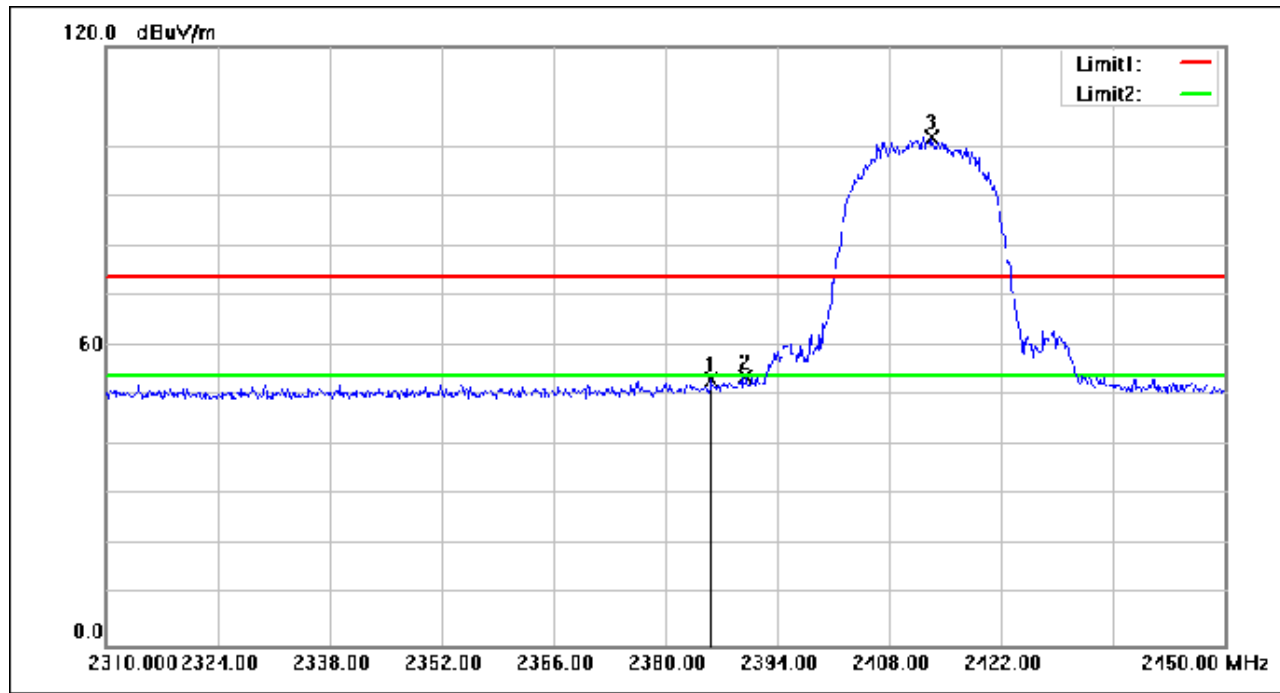
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.740	78.07	-24.73	53.34	74.00	-20.66	peak
2	2390.000	78.53	-24.71	53.82	74.00	-20.18	peak
3	2413.320	126.58	-24.60	101.98	74.00	27.98	peak

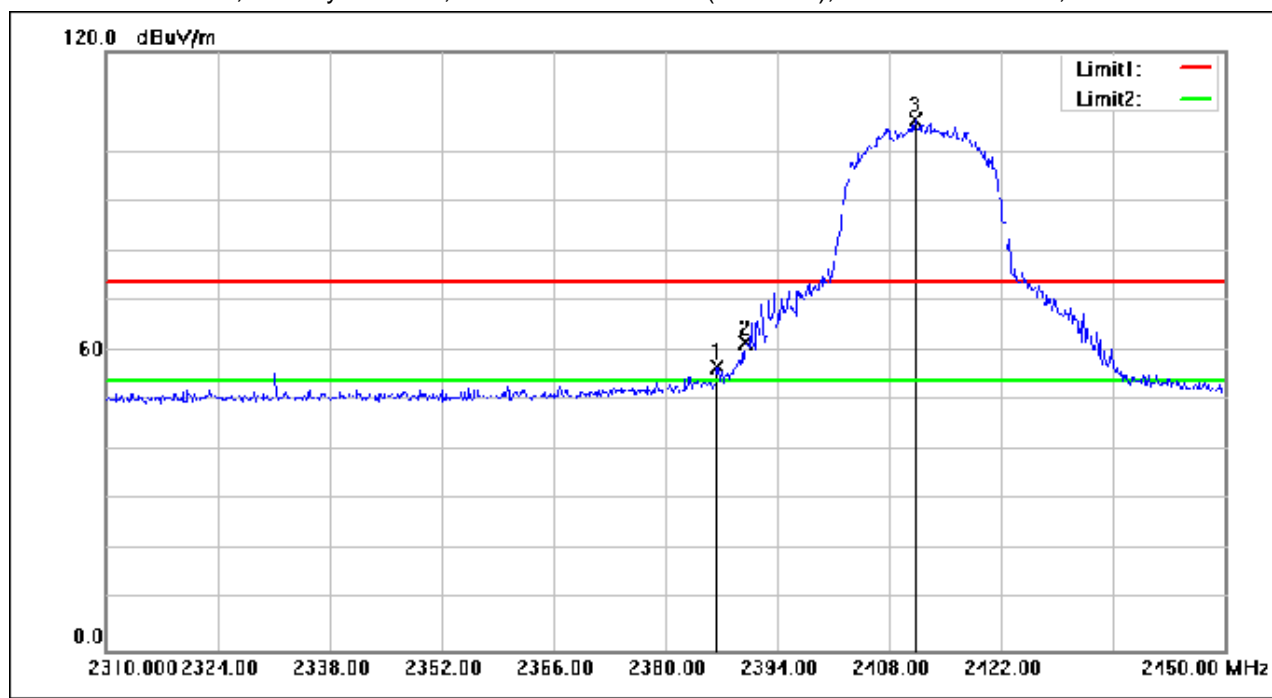
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.440	81.63	-24.72	56.91	74.00	-17.09	peak
2	2390.000	86.30	-24.71	61.59	74.00	-12.41	peak
3	2411.220	131.04	-24.60	106.44	74.00	32.44	peak

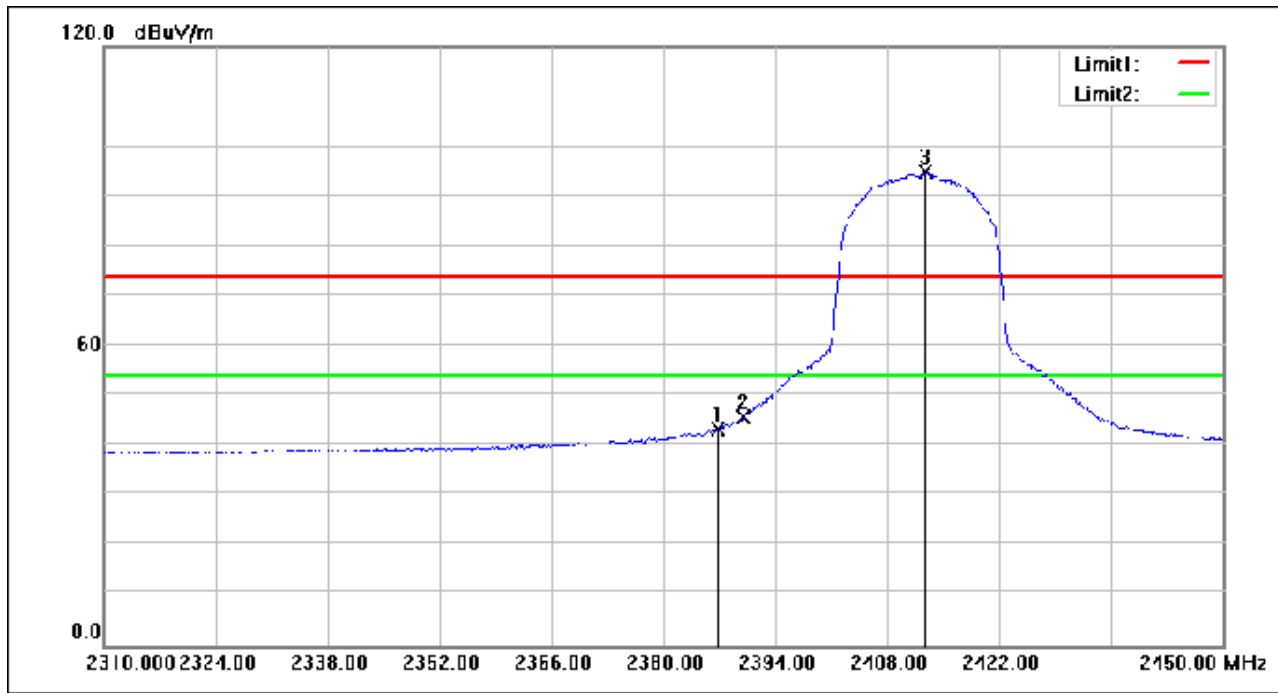
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.720	67.95	-24.72	43.23	54.00	-10.77	AVG
2	2390.000	70.55	-24.71	45.84	54.00	-8.16	AVG
3	2412.760	119.46	-24.60	94.86	54.00	40.86	AVG



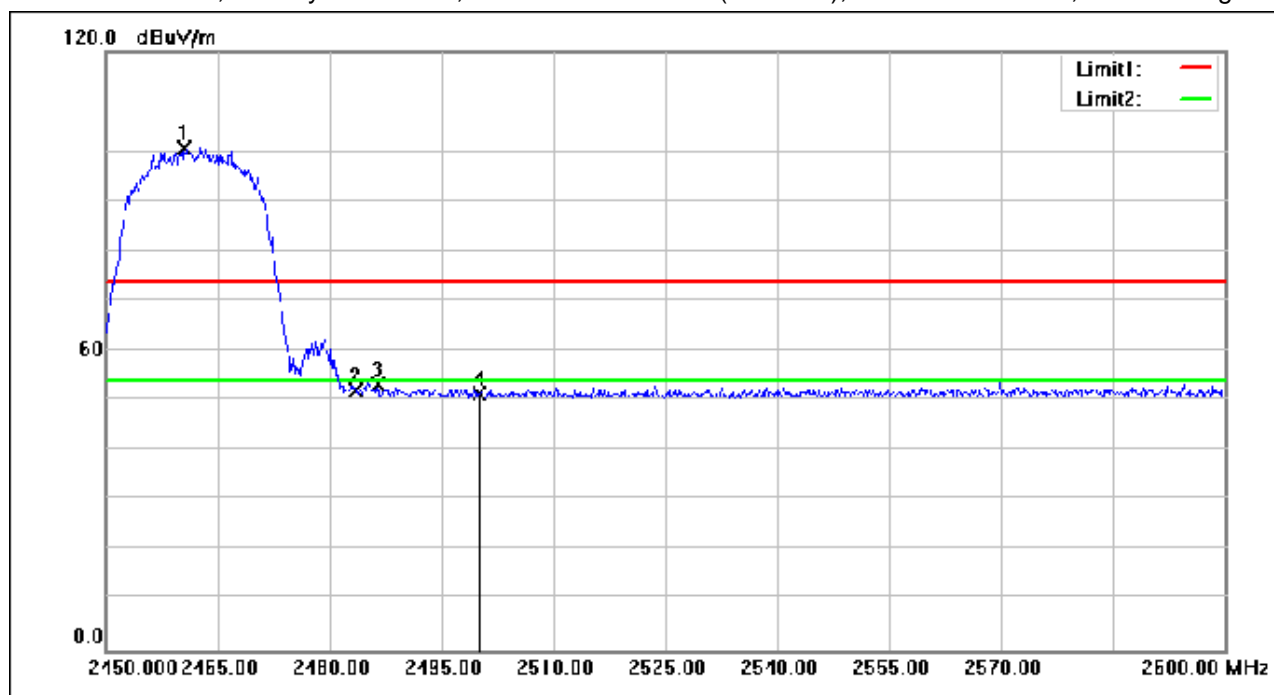
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.500	125.17	-24.38	100.79	74.00	26.79	peak
2	2483.500	76.27	-24.27	52.00	74.00	-22.00	peak
3	2486.450	77.36	-24.25	53.11	74.00	-20.89	peak
4	2500.000	75.72	-24.19	51.53	74.00	-22.47	peak

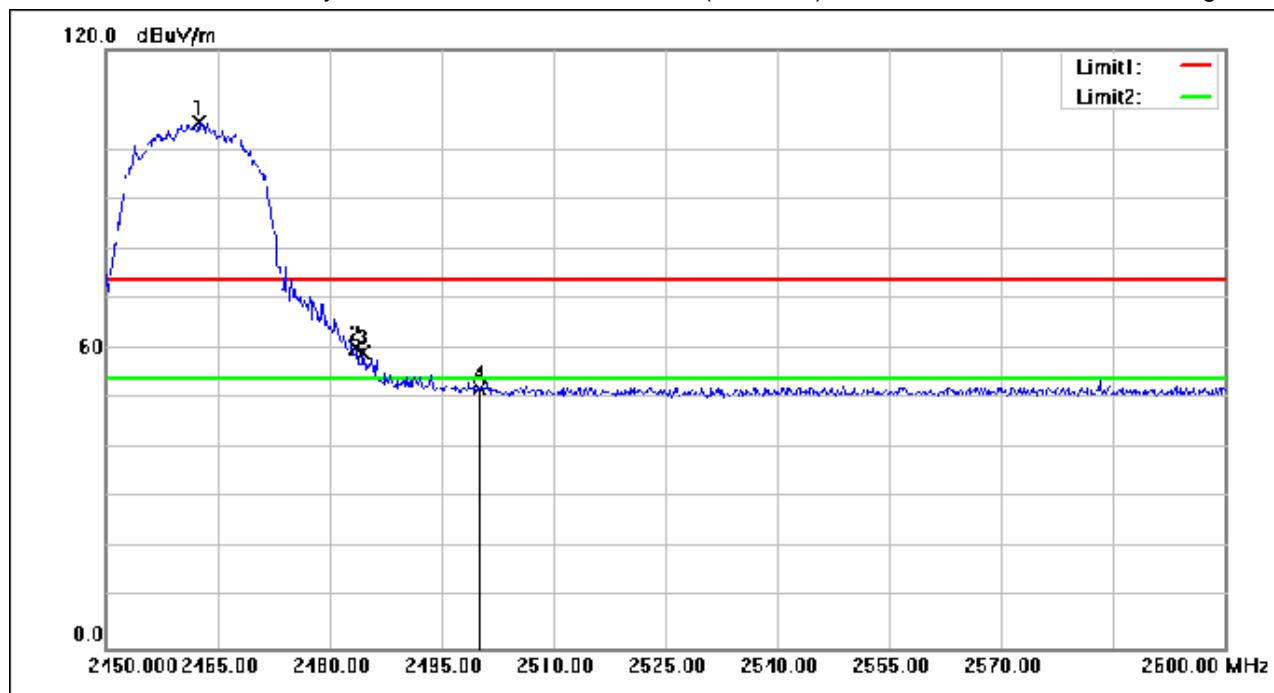
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.450	129.97	-24.37	105.60	74.00	31.60	peak
2	2483.500	84.44	-24.27	60.17	74.00	-13.83	peak
3	2484.500	83.52	-24.26	59.26	74.00	-14.74	peak
4	2500.000	76.34	-24.19	52.15	74.00	-21.85	peak

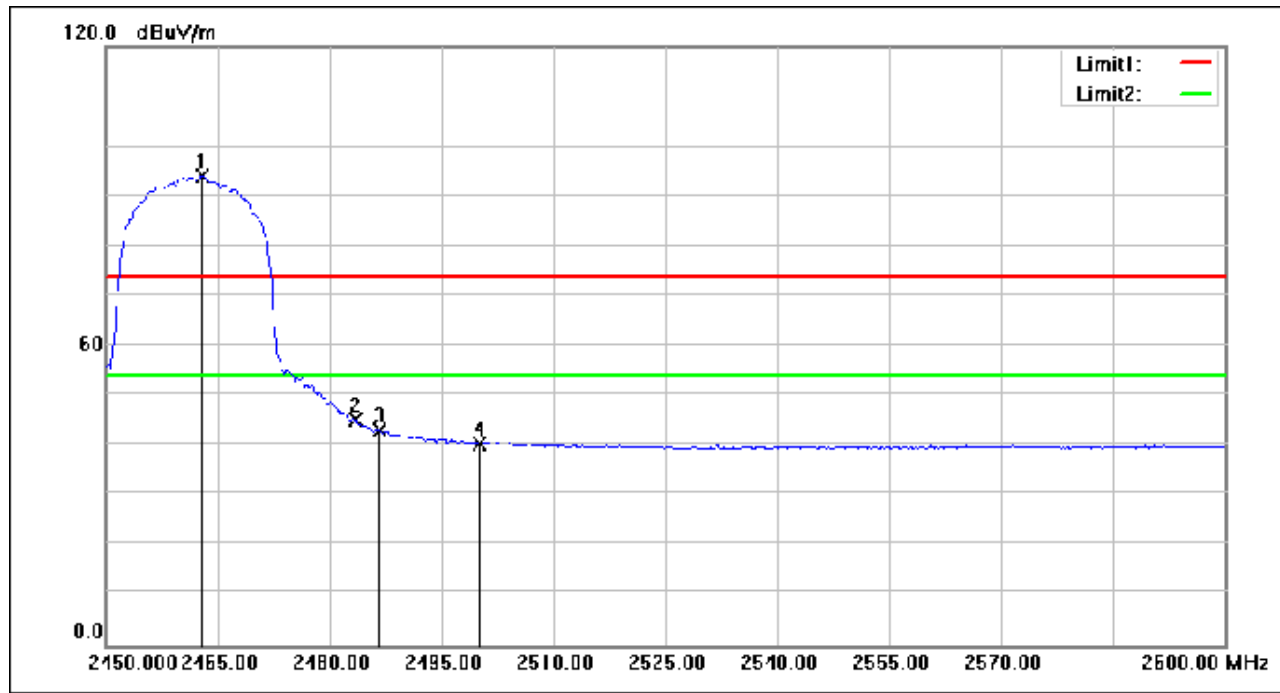
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.900	118.49	-24.37	94.12	54.00	40.12	AVG
2	2483.500	69.39	-24.27	45.12	54.00	-8.88	AVG
3	2486.750	67.27	-24.25	43.02	54.00	-10.98	AVG
4	2500.000	64.51	-24.19	40.32	54.00	-13.68	AVG

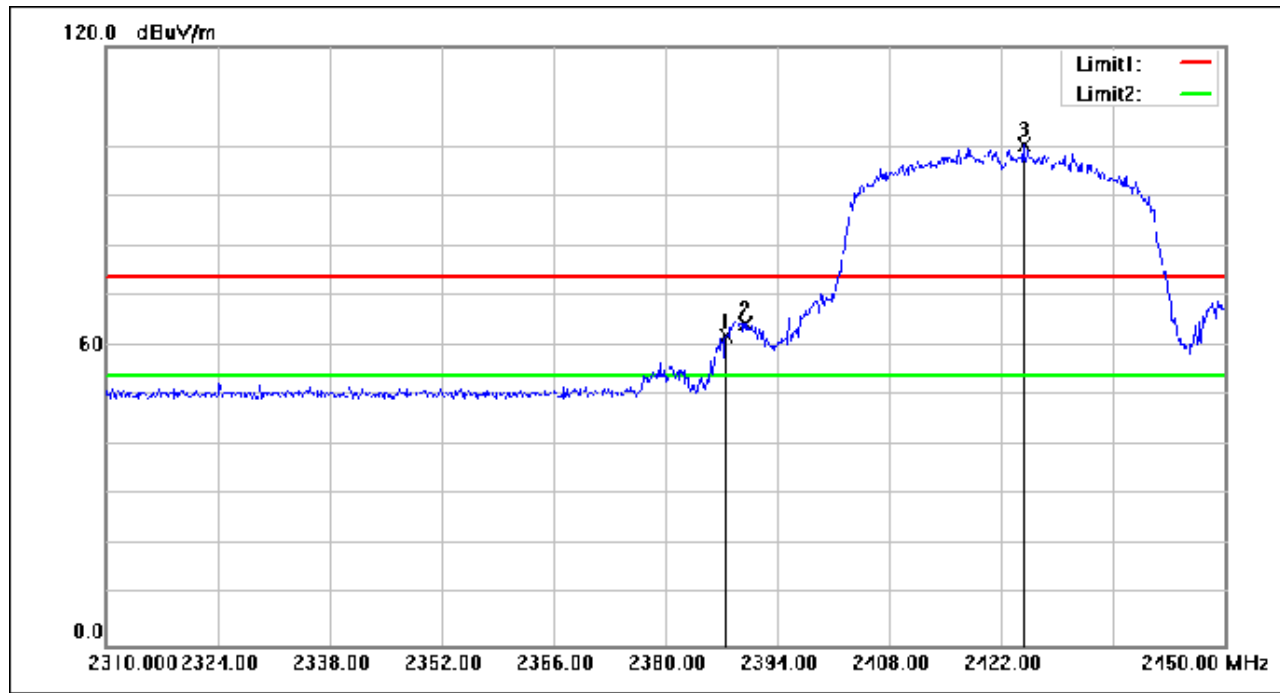
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.560	86.78	-24.72	62.06	74.00	-11.94	peak
2	2390.000	89.08	-24.71	64.37	74.00	-9.63	peak
3	2424.800	124.85	-24.54	100.31	74.00	26.31	peak

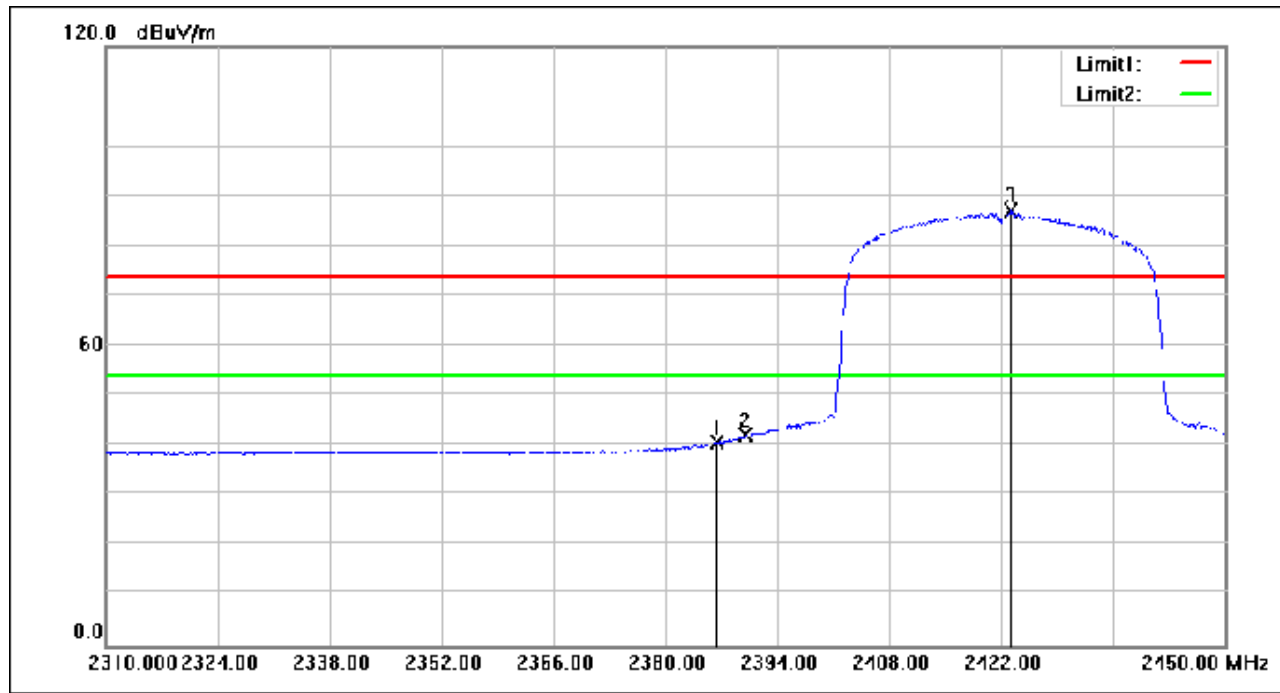
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.440	65.33	-24.72	40.61	54.00	-13.39	AVG
2	2390.000	66.74	-24.71	42.03	54.00	-11.97	AVG
3	2423.260	111.70	-24.55	87.15	54.00	33.15	AVG

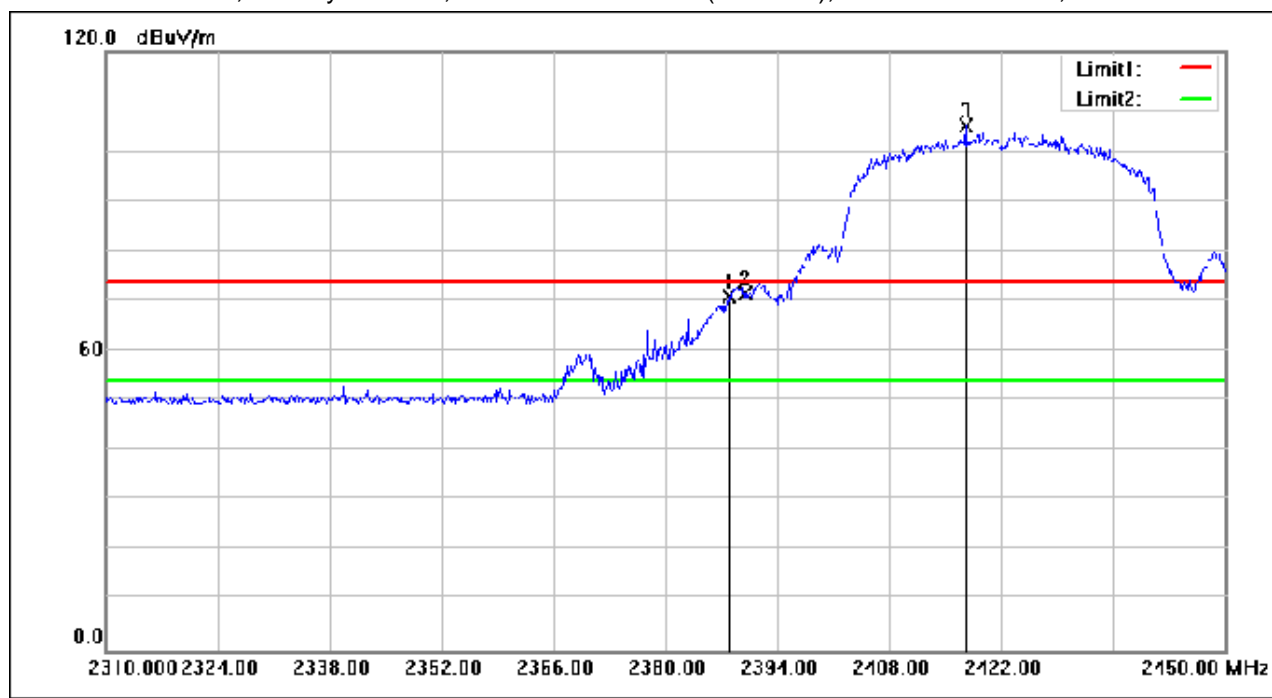
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.980	95.59	-24.72	70.87	74.00	-3.13	peak
2	2390.000	96.30	-24.71	71.59	74.00	-2.41	peak
3	2417.520	129.86	-24.58	105.28	74.00	31.28	peak

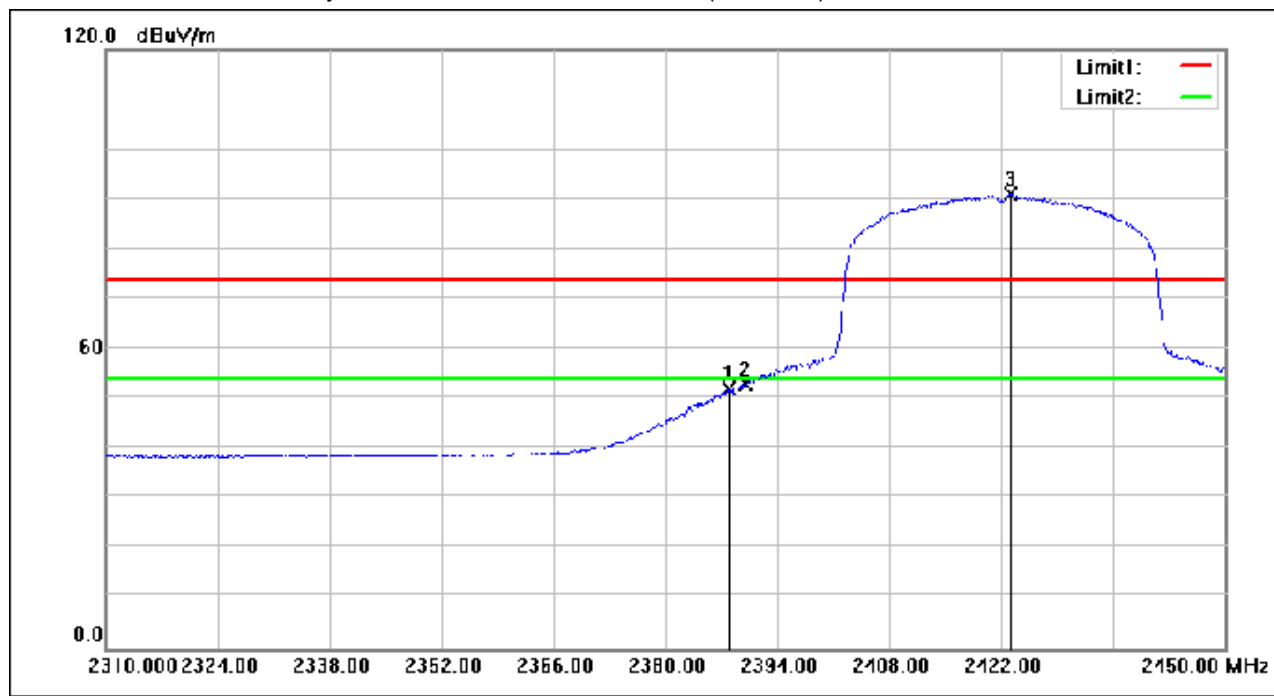
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.840	76.78	-24.72	52.06	54.00	-1.94	AVG
2	2390.000	77.73	-24.71	53.02	54.00	-0.98	AVG
3	2423.120	115.64	-24.55	91.09	54.00	37.09	AVG

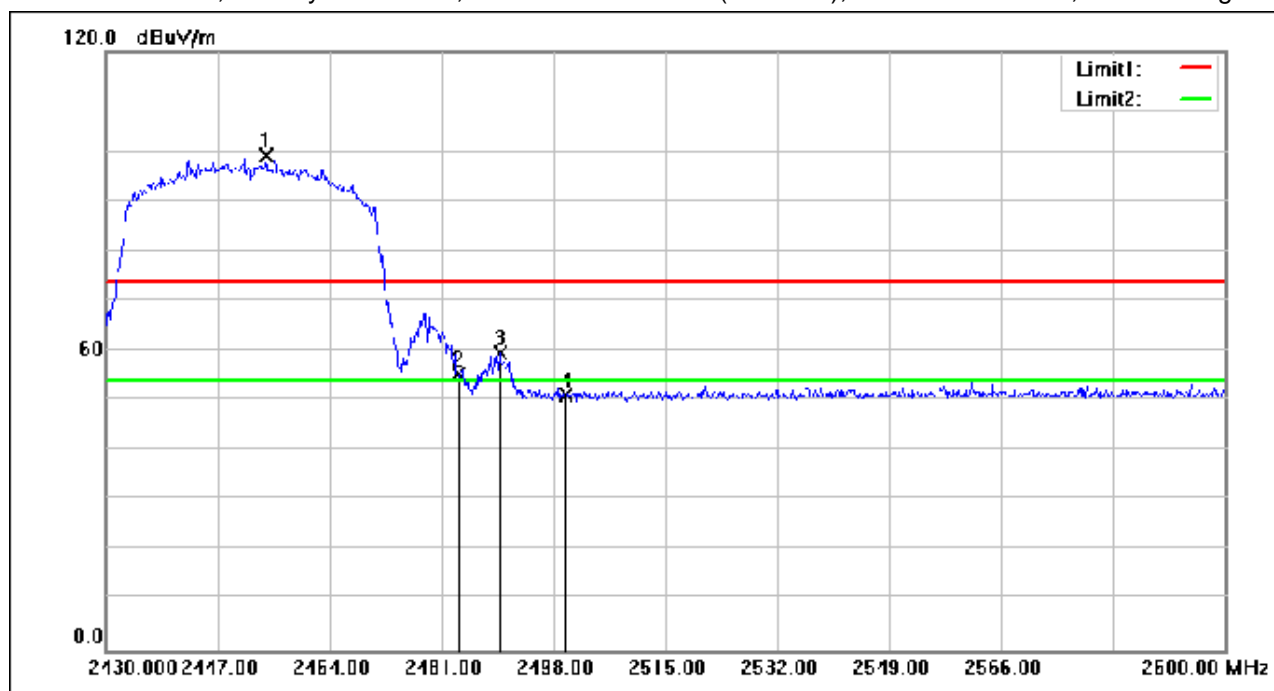
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2454.310	123.54	-24.40	99.14	74.00	25.14	peak
2	2483.500	79.52	-24.27	55.25	74.00	-18.75	peak
3	2489.840	83.66	-24.24	59.42	74.00	-14.58	peak
4	2500.000	75.27	-24.19	51.08	74.00	-22.92	peak



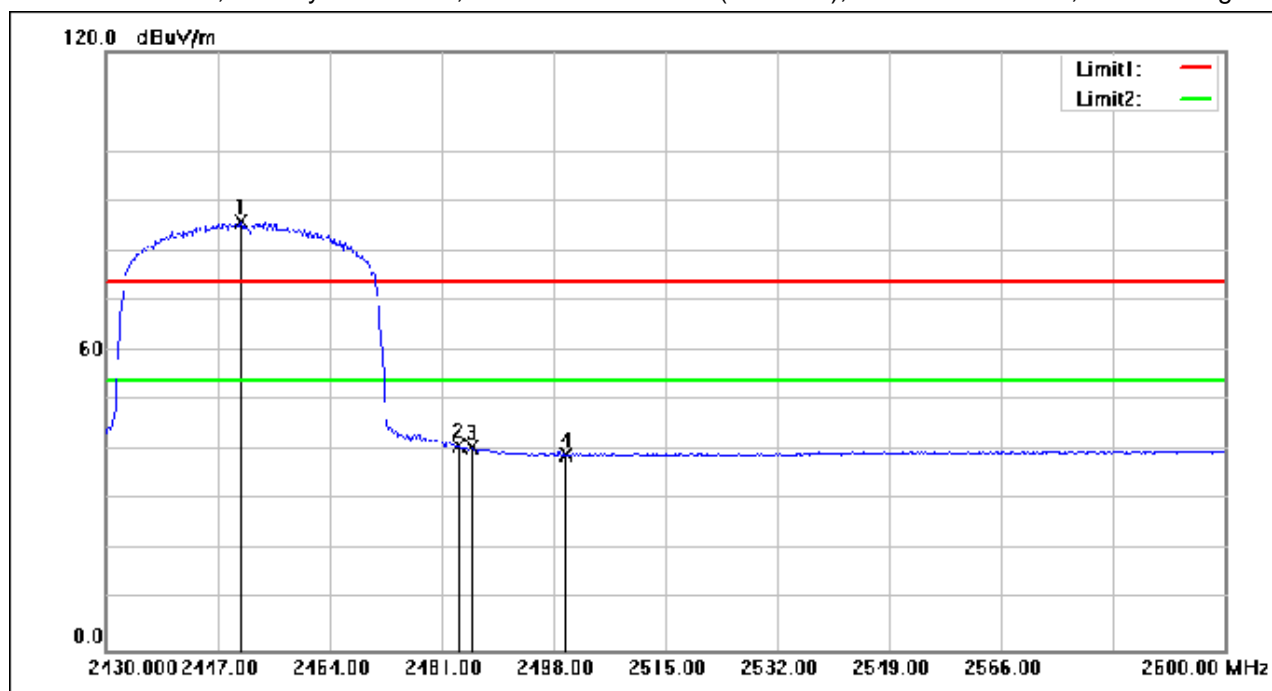
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2450.570	110.35	-24.42	85.93	54.00	31.93	AVG
2	2483.500	65.23	-24.27	40.96	54.00	-13.04	AVG
3	2485.590	64.90	-24.26	40.64	54.00	-13.36	AVG
4	2500.000	63.47	-24.19	39.28	54.00	-14.72	AVG

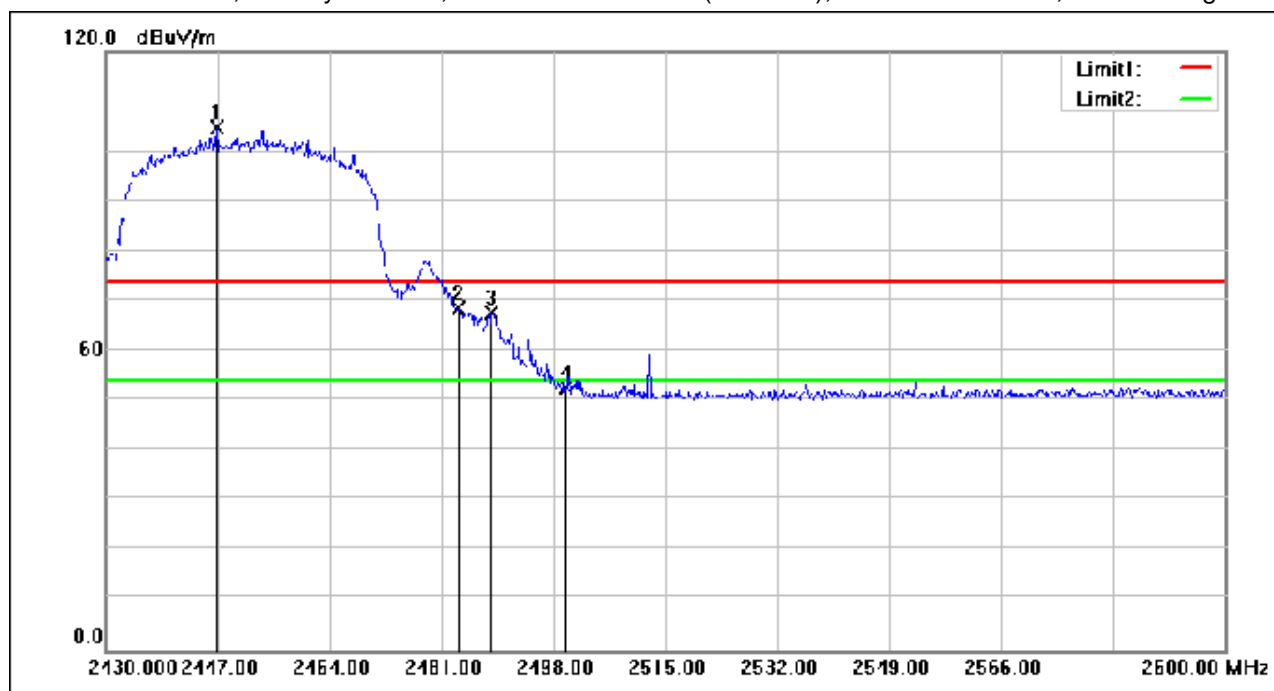
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2446.830	129.15	-24.44	104.71	74.00	30.71	peak
2	2483.500	92.69	-24.27	68.42	74.00	-5.58	peak
3	2488.650	91.87	-24.25	67.62	74.00	-6.38	peak
4	2500.000	76.87	-24.19	52.68	74.00	-21.32	peak

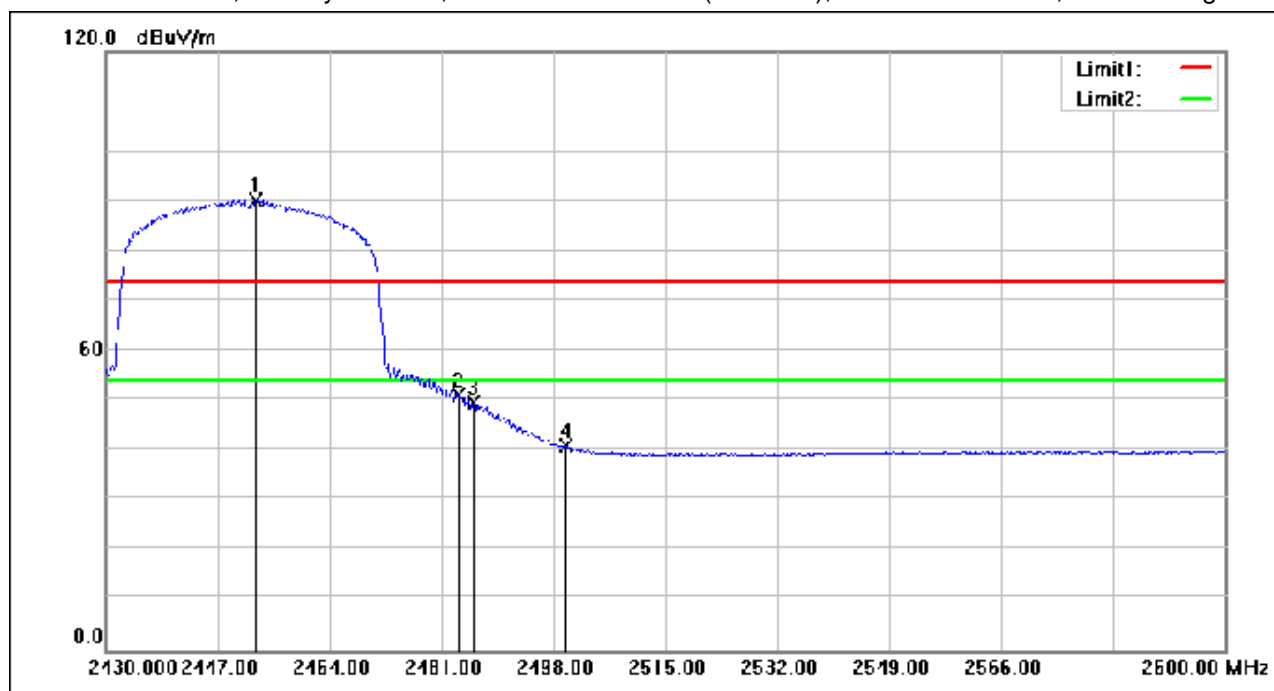
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Test Mode: 00; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2452.780	114.66	-24.41	90.25	54.00	36.25	AVG
2	2483.500	75.33	-24.27	51.06	54.00	-2.94	AVG
3	2485.930	74.05	-24.26	49.79	54.00	-4.21	AVG
4	2500.000	65.08	-24.19	40.89	54.00	-13.11	AVG

### 7.3 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3M

Limit:

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

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C

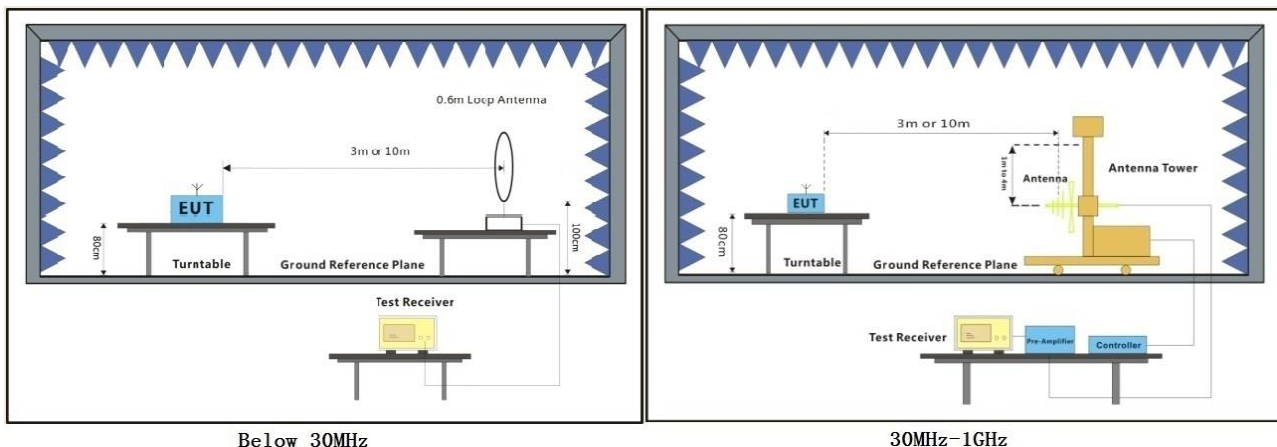
Humidity: 45.2 % RH

Atmospheric Pressure: 1010 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

#### 7.3.3 Test Setup Diagram



## 7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using 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.  $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamplifier Factor}$
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. EUT has two different power supply modes: power adapter power supply and POE power supply, both of which have been pre-tested. Power adapter power supply is identified as the worst case scenario and only the worst results are reflected in the report.

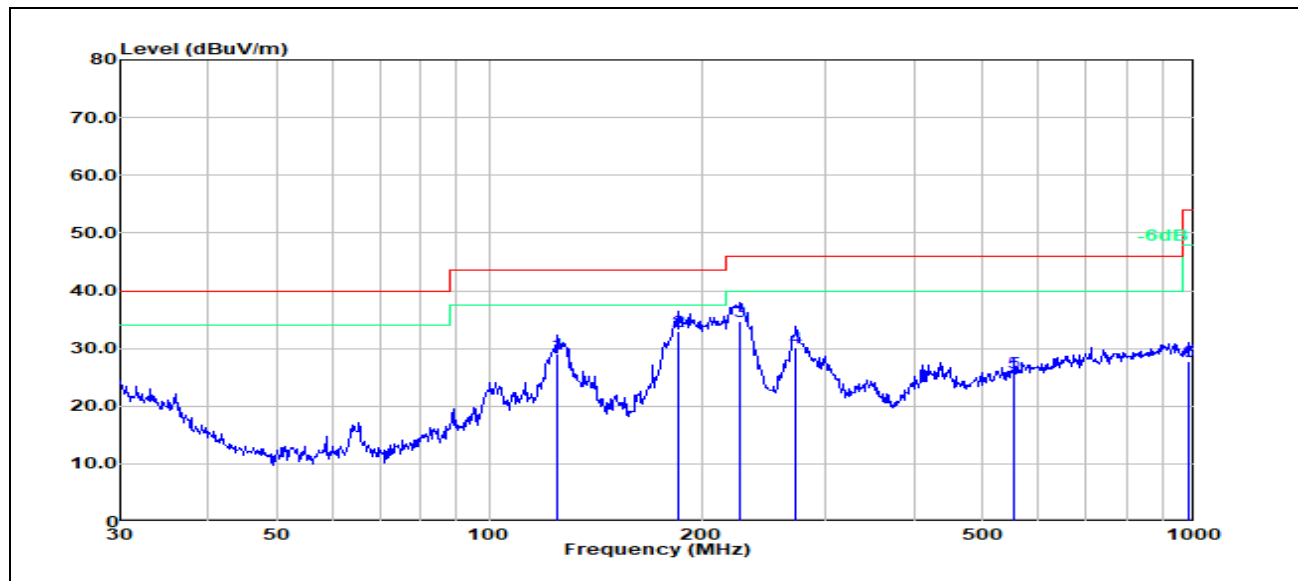
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Test Mode: 00; Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	125.0066	14.44	14.70	29.14	43.50	-14.36	100	50	QP
2	185.7882	20.53	12.53	33.06	43.50	-10.44	100	287	QP
3	226.8936	21.78	12.85	34.63	46.00	-11.37	100	71	QP
4	272.2776	14.94	15.10	30.04	46.00	-15.96	200	0	QP
5	554.8254	3.82	22.02	25.84	46.00	-20.16	100	166	QP
6	979.1804	2.38	25.47	27.85	54.00	-26.15	100	352	QP

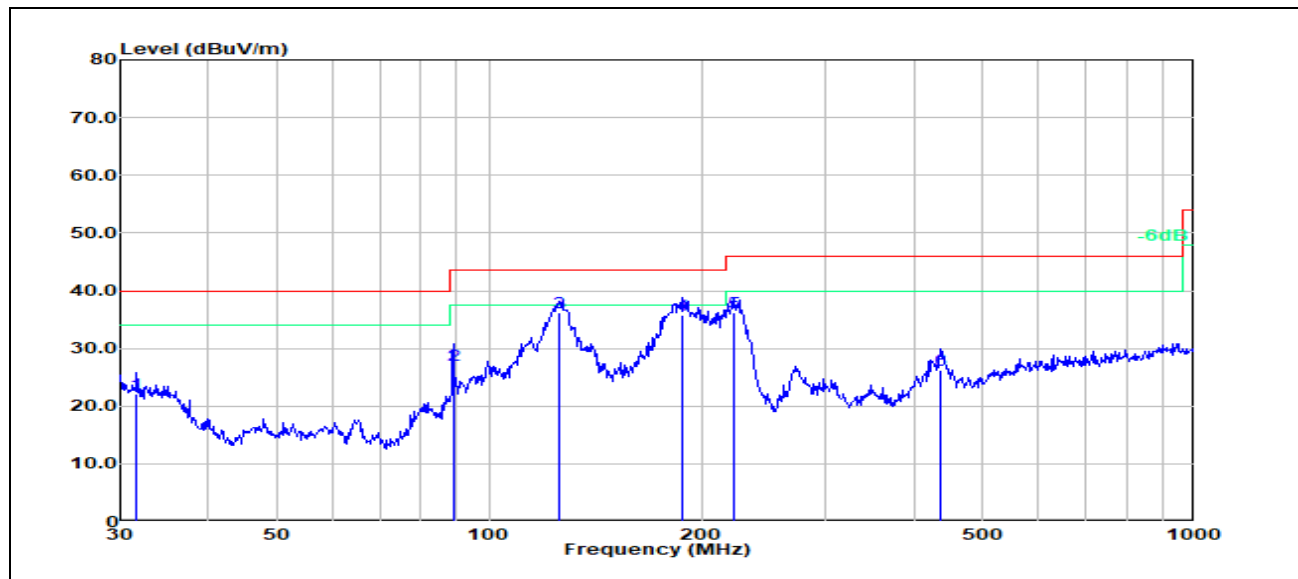
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Test Mode: 00; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBUV)	Correct Factor(dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	31.6202	4.05	18.01	22.06	40.00	-17.94	100	350	QP
2	88.9639	15.52	11.59	27.11	43.50	-16.39	100	249	QP
3	125.8864	21.66	14.53	36.19	43.50	-7.31	100	241	QP
4	187.7530	23.45	12.26	35.71	43.50	-7.79	100	38	QP
5	222.9502	23.51	12.79	36.30	46.00	-9.70	100	221	QP
6	435.5898	7.48	18.82	26.30	46.00	-19.70	200	45	QP

### 7.4 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3M

Limit:

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

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

Operating Environment:

Temperature: 23.3 °C

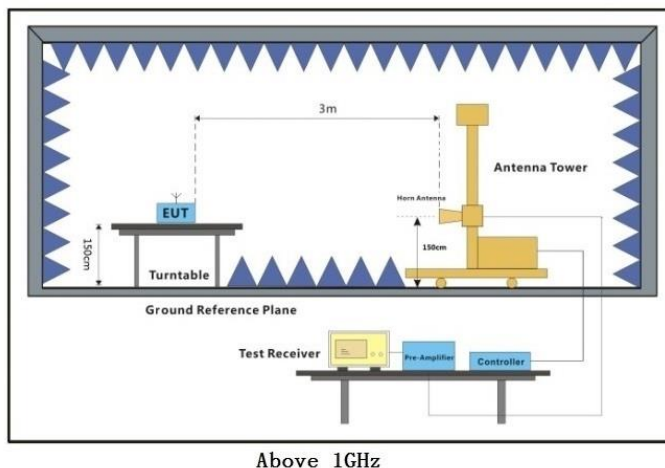
Humidity: 45.2 % RH

Atmospheric Pressure: 1010 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

#### 7.4.3 Test Setup Diagram





## 7.4.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (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.  $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamplifier Factor}$
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. 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.
4. EUT has two different power supply modes: power adapter power supply and POE power supply, both of which have been pre-tested. Power adapter power supply is identified as the worst case scenario and only the worst results are reflected in the report.

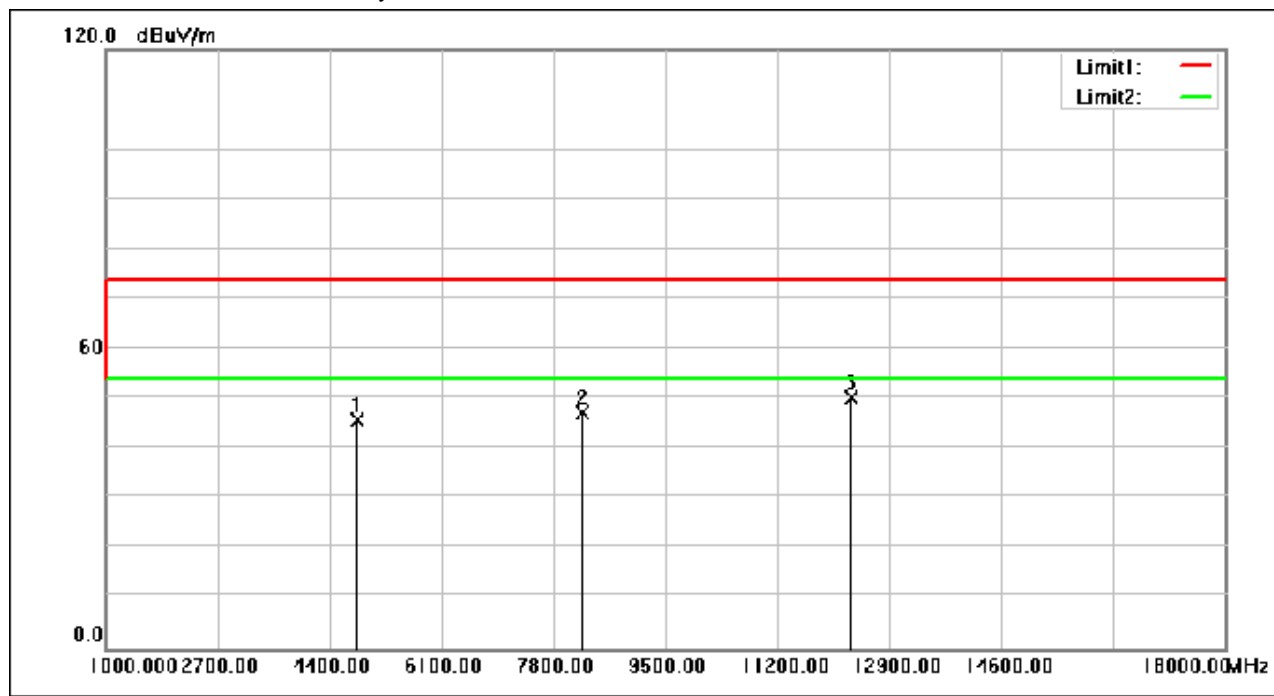
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4825.020	64.19	-18.55	45.64	74.00	-28.36	peak
2	8242.150	57.39	-10.18	47.21	74.00	-26.79	peak
3	12322.410	56.33	-6.03	50.30	74.00	-23.70	peak

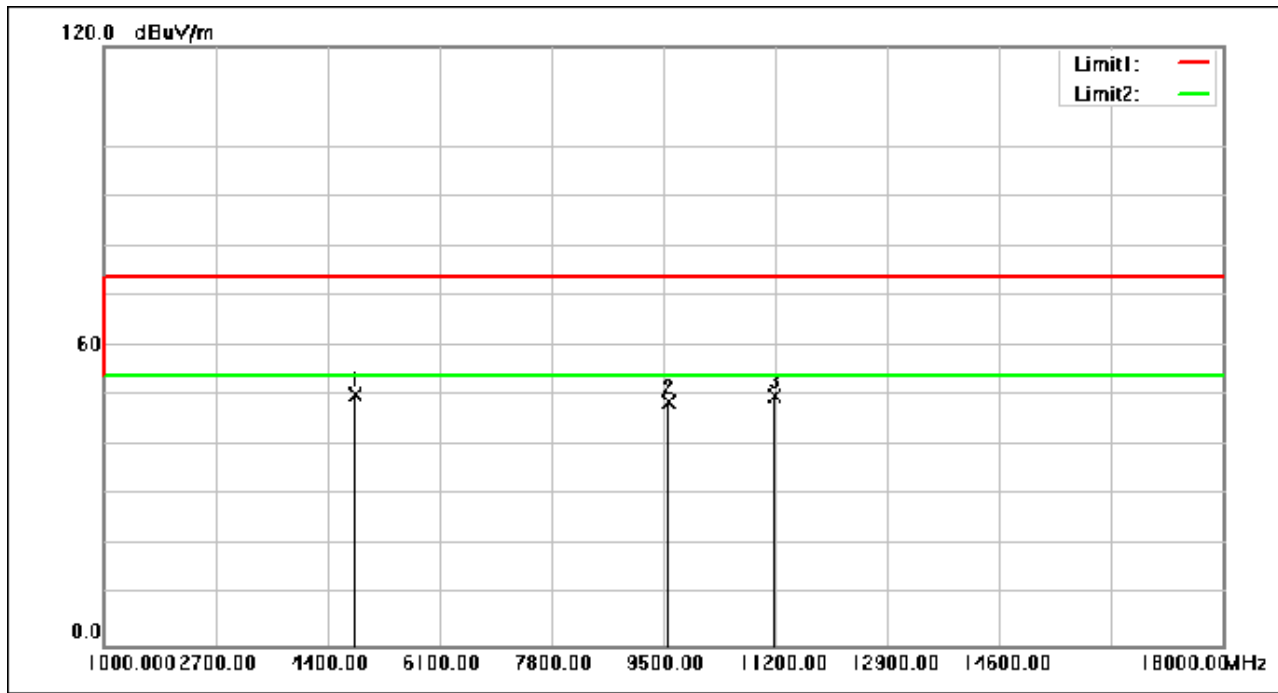
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4825.200	68.82	-18.55	50.27	74.00	-23.73	peak
2	9585.520	56.59	-7.79	48.80	74.00	-25.20	peak
3	11183.700	56.53	-6.62	49.91	74.00	-24.09	peak

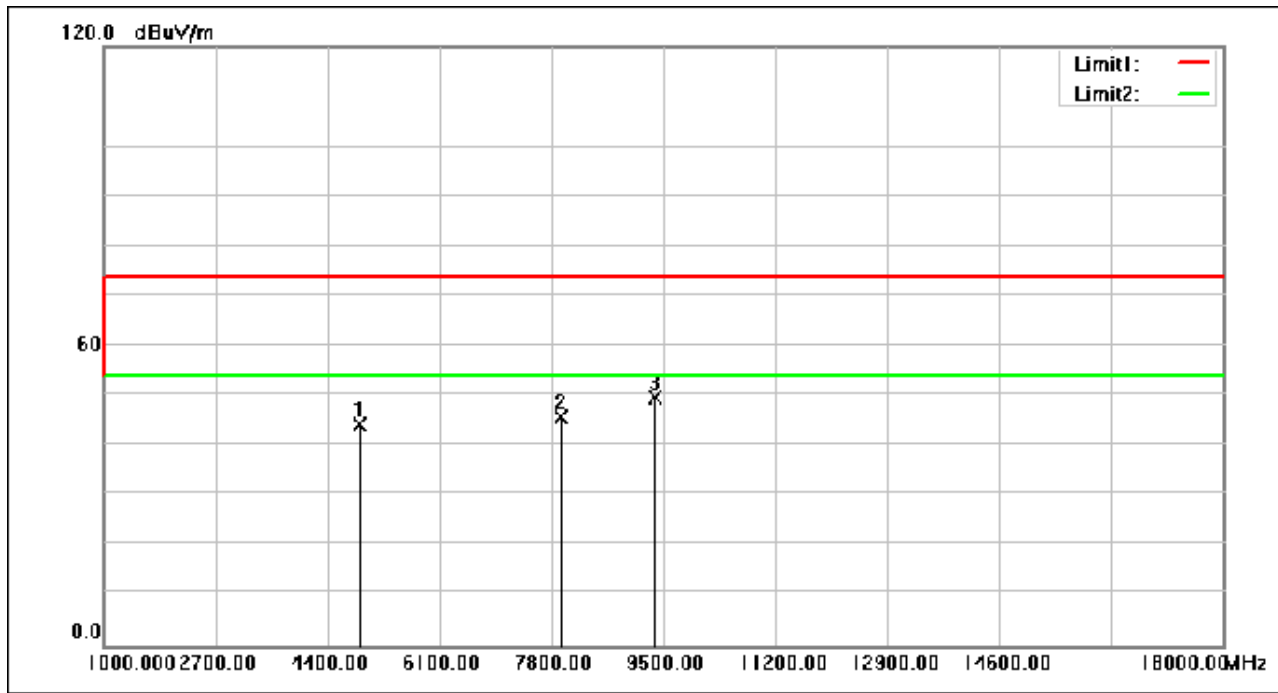
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4876.240	62.85	-18.52	44.33	74.00	-29.67	peak
2	7953.550	56.37	-10.66	45.71	74.00	-28.29	peak
3	9381.600	57.71	-8.18	49.53	74.00	-24.47	peak

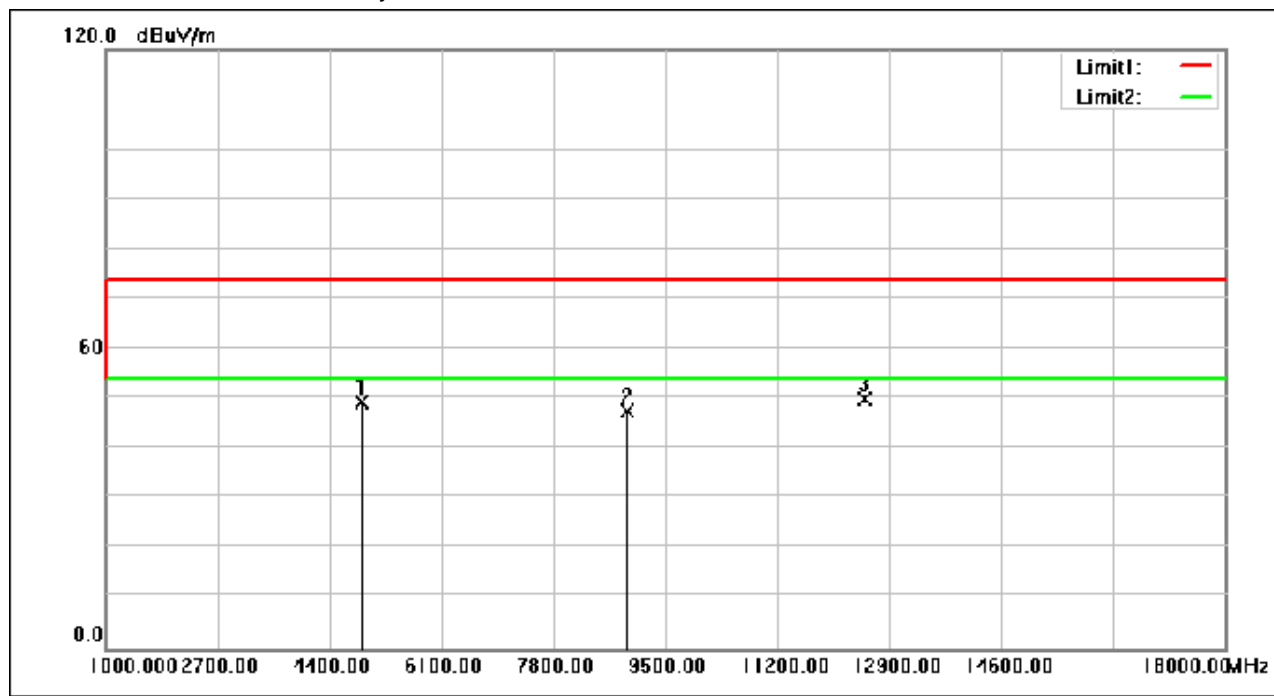
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4876.300	68.00	-18.52	49.48	74.00	-24.52	peak
2	8922.840	56.69	-9.05	47.64	74.00	-26.36	peak
3	12526.650	56.14	-6.13	50.01	74.00	-23.99	peak

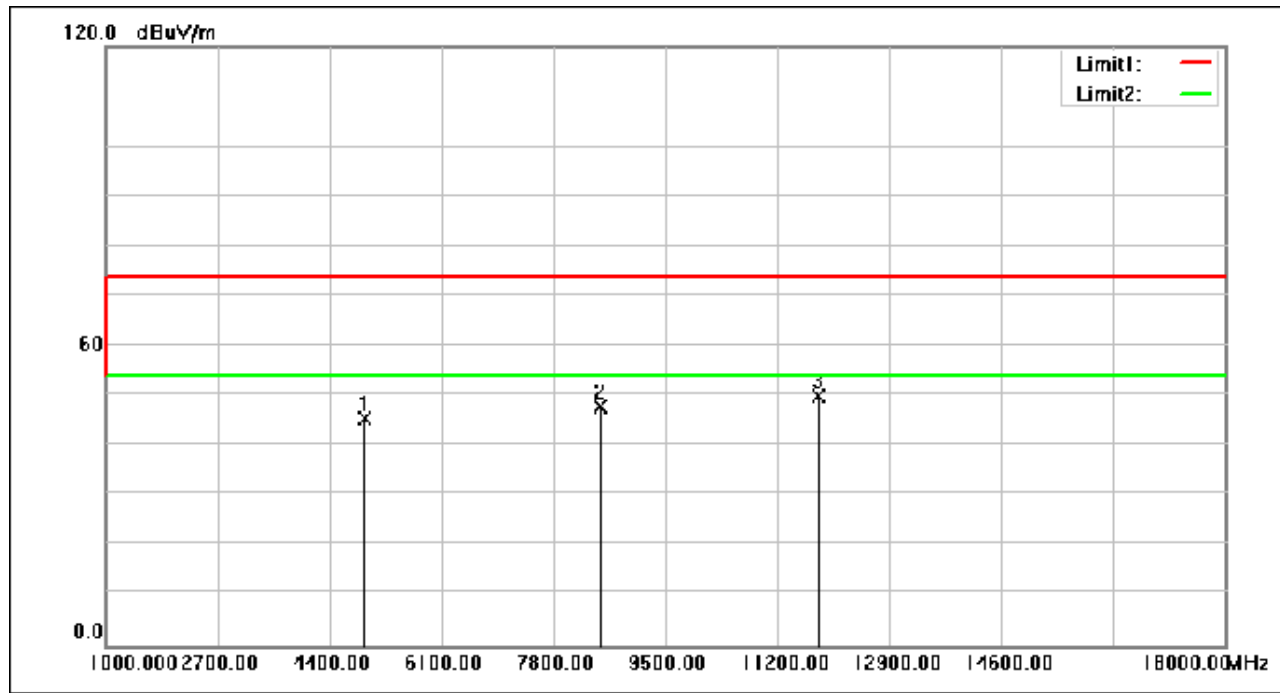
## Compliance Certification Services (Kunshan) Inc.

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4927.130	63.93	-18.49	45.44	74.00	-28.56	peak
2	8514.280	57.66	-9.73	47.93	74.00	-26.07	peak
3	11829.900	55.95	-6.09	49.86	74.00	-24.14	peak

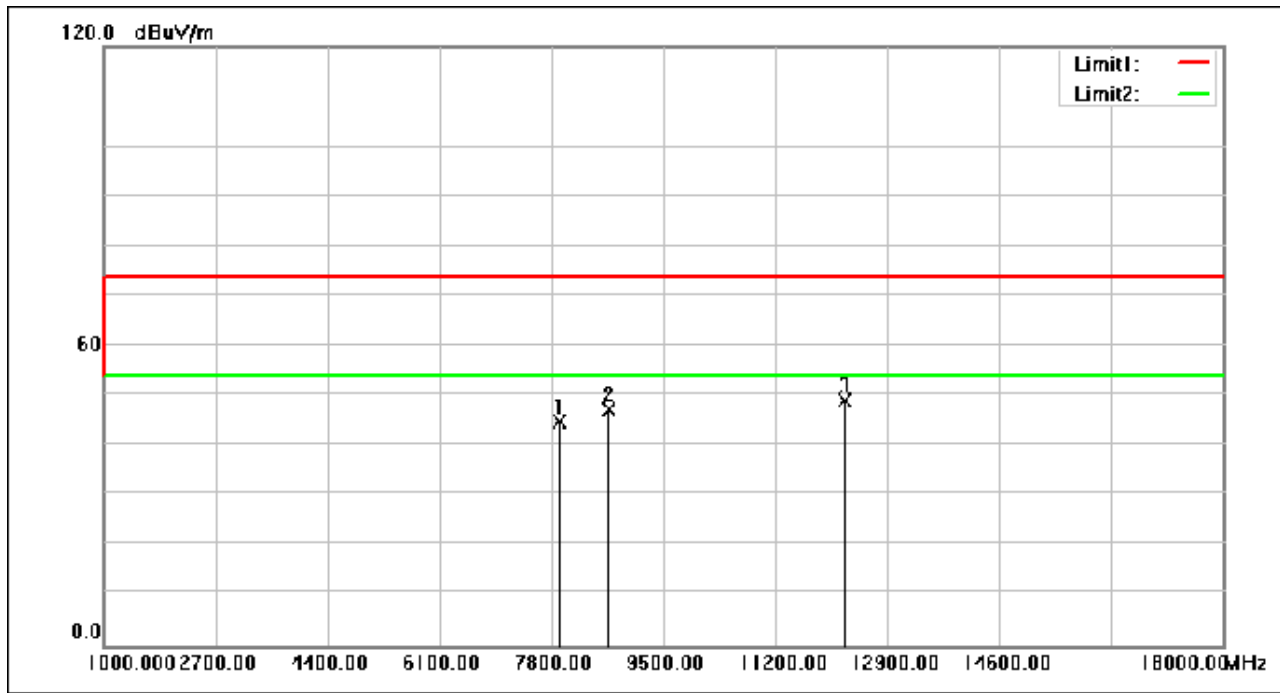
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7919.330	55.54	-10.70	44.84	74.00	-29.16	peak
2	8667.640	56.72	-9.48	47.24	74.00	-26.76	peak
3	12254.800	54.92	-6.00	48.92	74.00	-25.08	peak

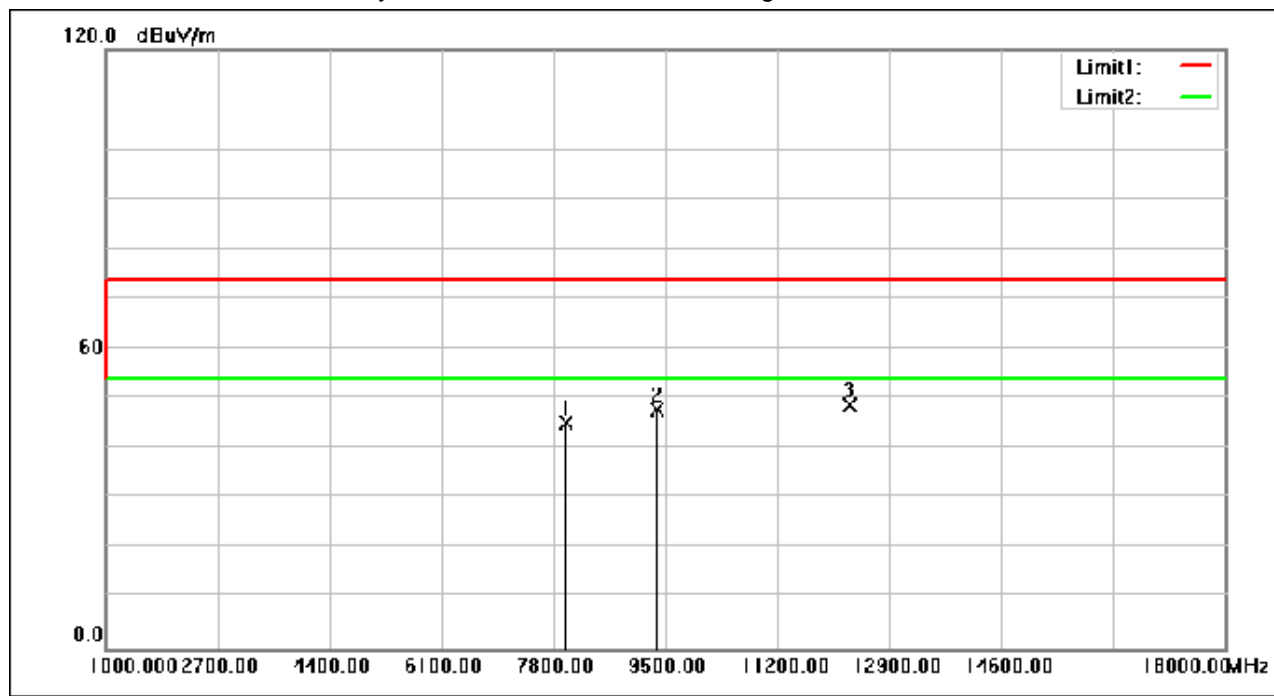
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7987.140	55.85	-10.62	45.23	74.00	-28.77	peak
2	9364.260	56.10	-8.21	47.89	74.00	-26.11	peak
3	12305.730	54.87	-6.03	48.84	74.00	-25.16	peak



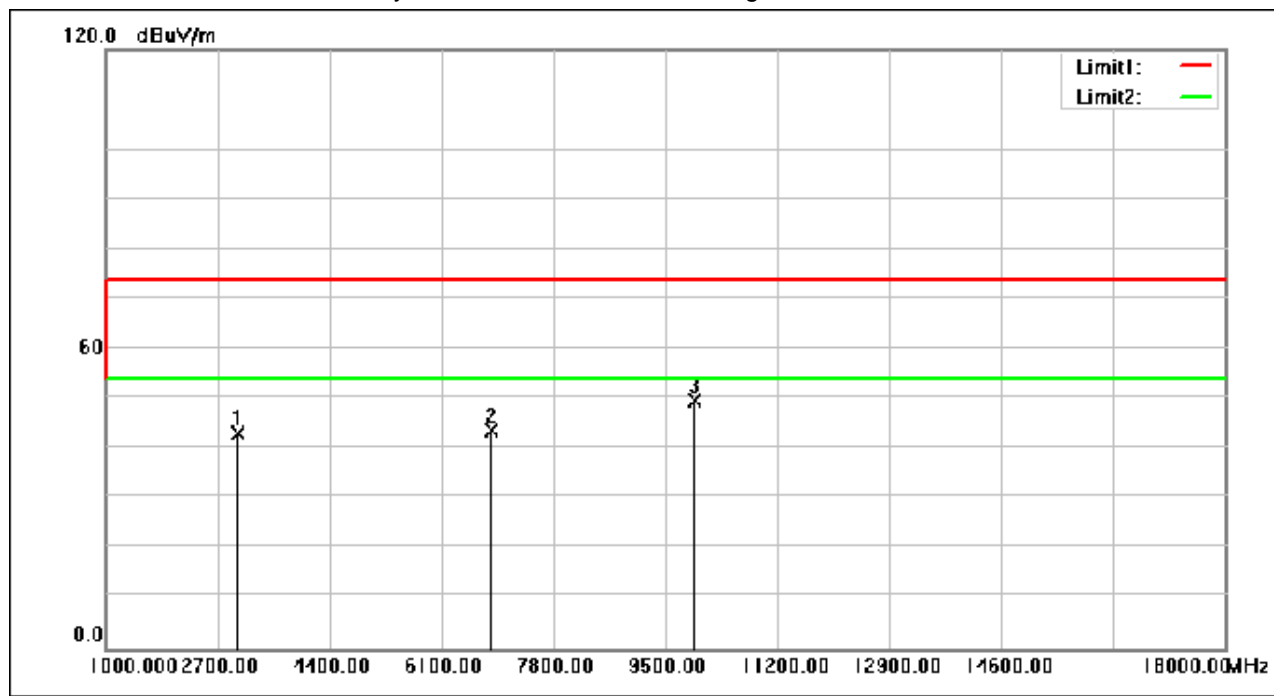
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3006.120	66.25	-23.19	43.06	74.00	-30.94	peak
2	6848.580	55.40	-11.83	43.57	74.00	-30.43	peak
3	9942.610	56.84	-7.31	49.53	74.00	-24.47	peak

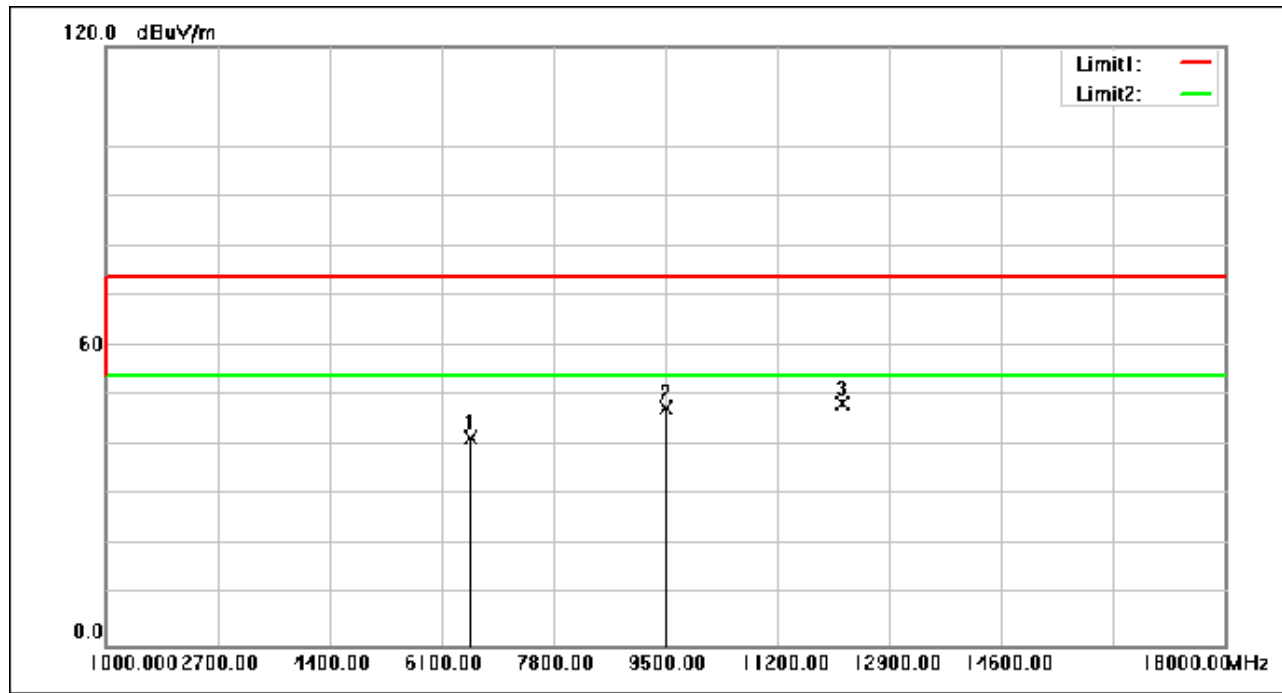
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6542.620	54.65	-13.00	41.65	74.00	-32.35	peak
2	9500.400	55.50	-7.95	47.55	74.00	-26.45	peak
3	12186.960	54.46	-5.98	48.48	74.00	-25.52	peak

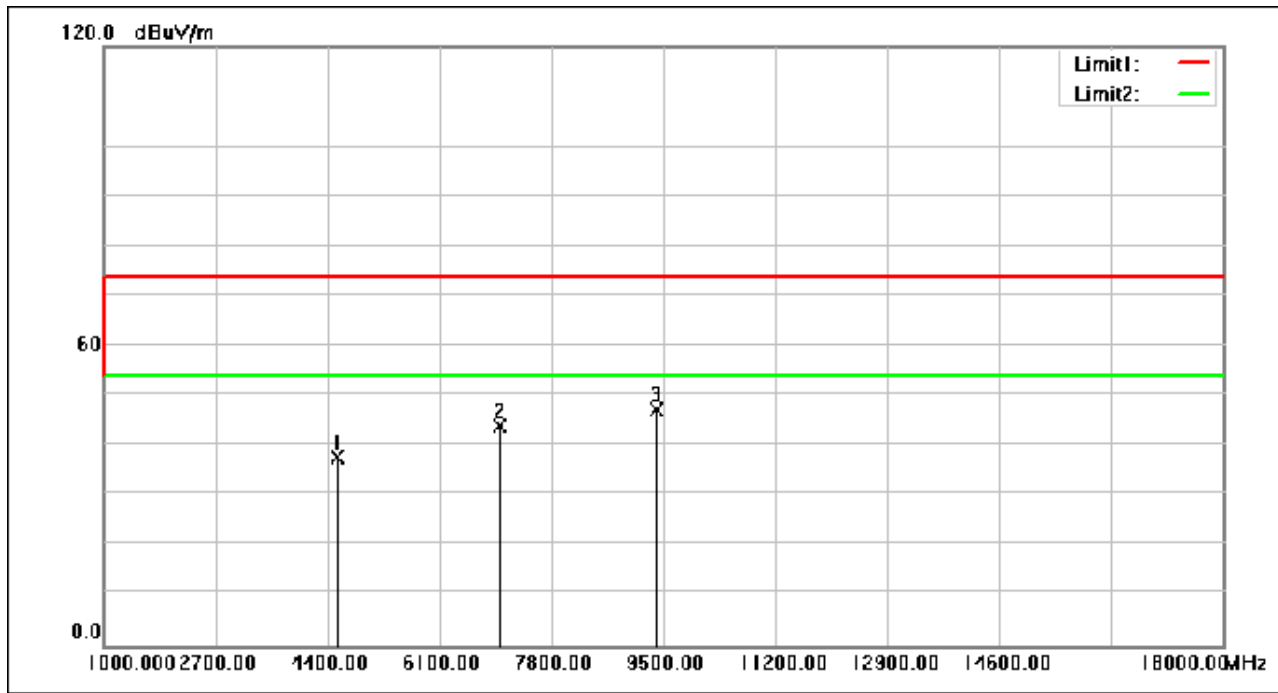
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4553.800	56.52	-18.80	37.72	74.00	-36.28	peak
2	7018.050	55.57	-11.55	44.02	74.00	-29.98	peak
3	9398.430	55.43	-8.15	47.28	74.00	-26.72	peak

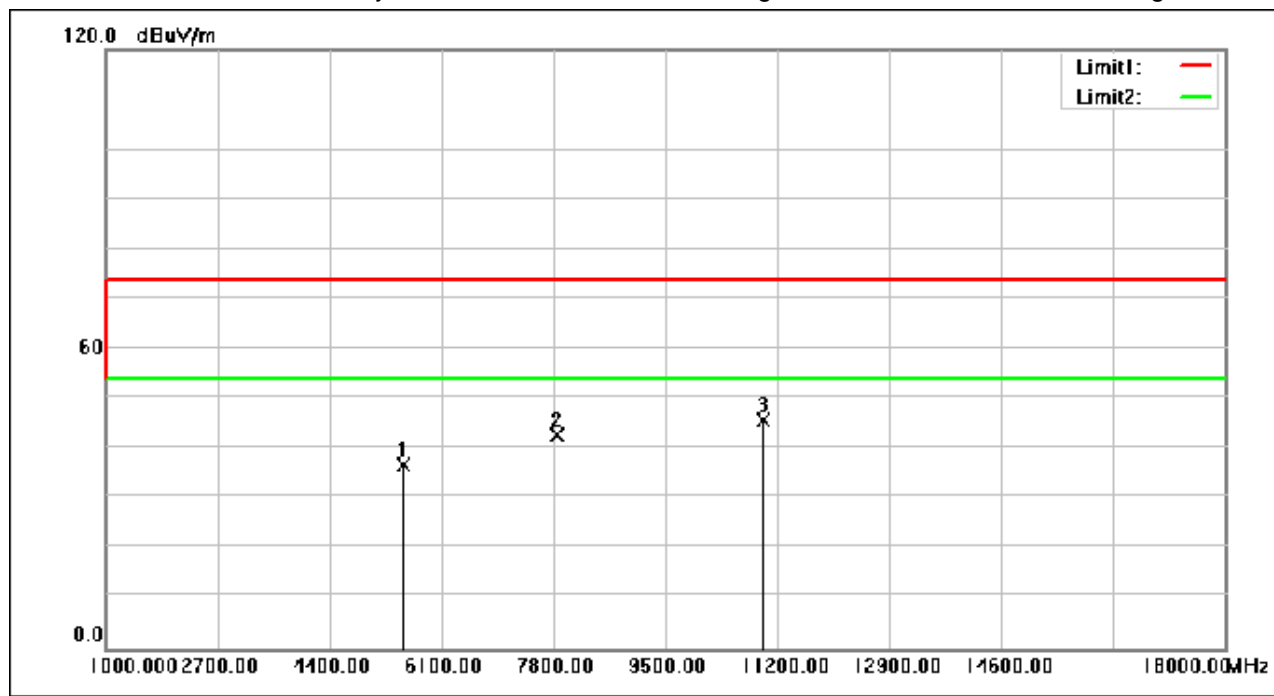
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No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5529.650	54.53	-17.66	36.87	74.00	-37.13	peak
2	7867.150	53.51	-10.77	42.74	74.00	-31.26	peak
3	10985.800	52.59	-6.77	45.82	74.00	-28.18	peak

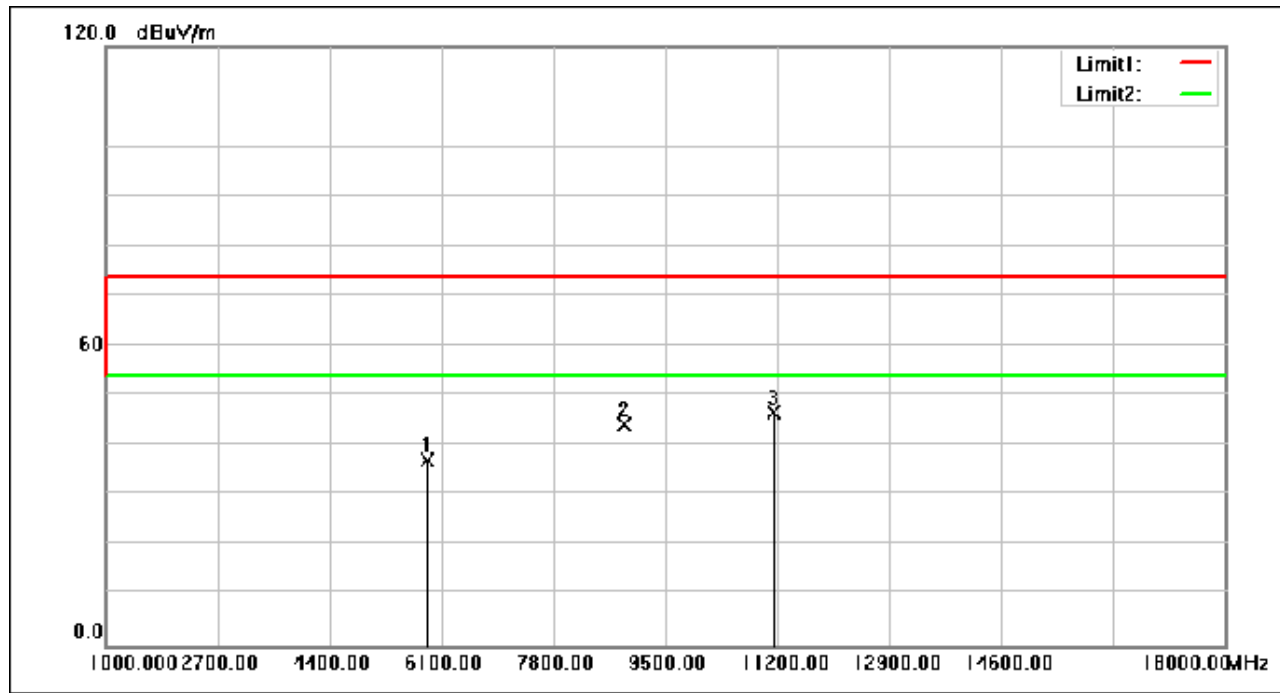
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5883.250	53.34	-16.27	37.07	74.00	-36.93	peak
2	8880.350	53.39	-9.13	44.26	74.00	-29.74	peak
3	11154.950	53.41	-6.64	46.77	74.00	-27.23	peak

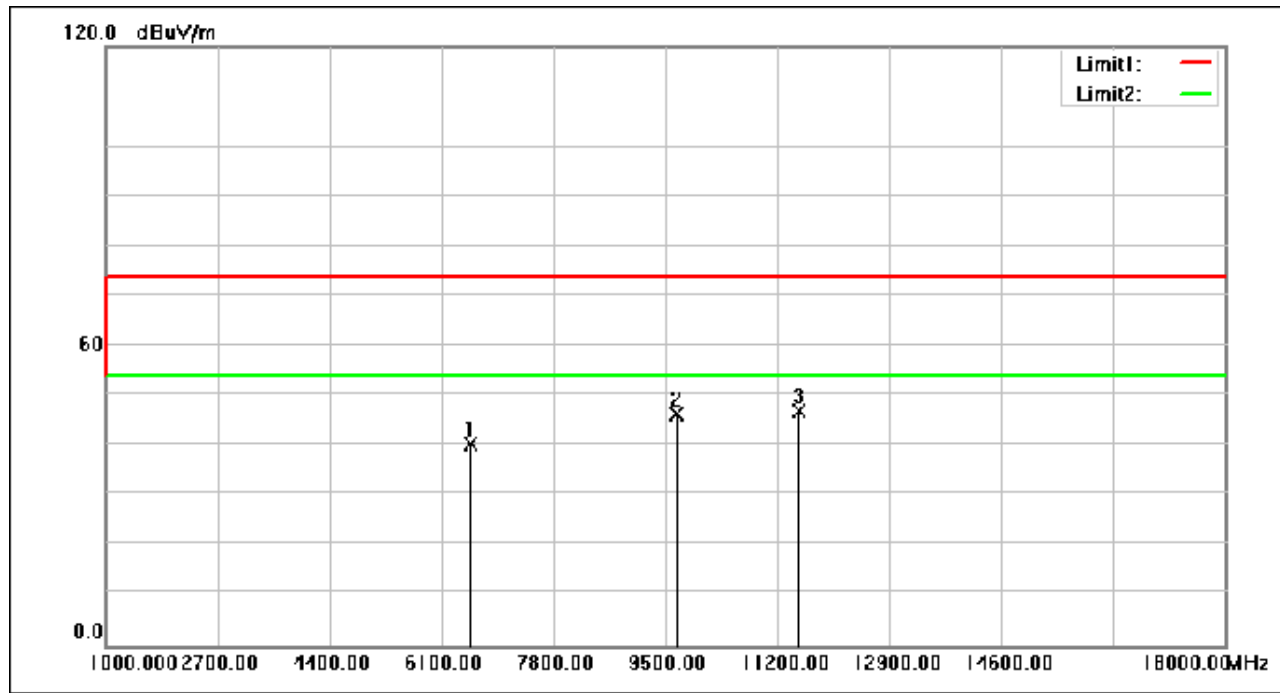
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6553.050	53.43	-12.95	40.48	74.00	-33.52	peak
2	9675.100	53.96	-7.63	46.33	74.00	-27.67	peak
3	11530.650	53.34	-6.33	47.01	74.00	-26.99	peak

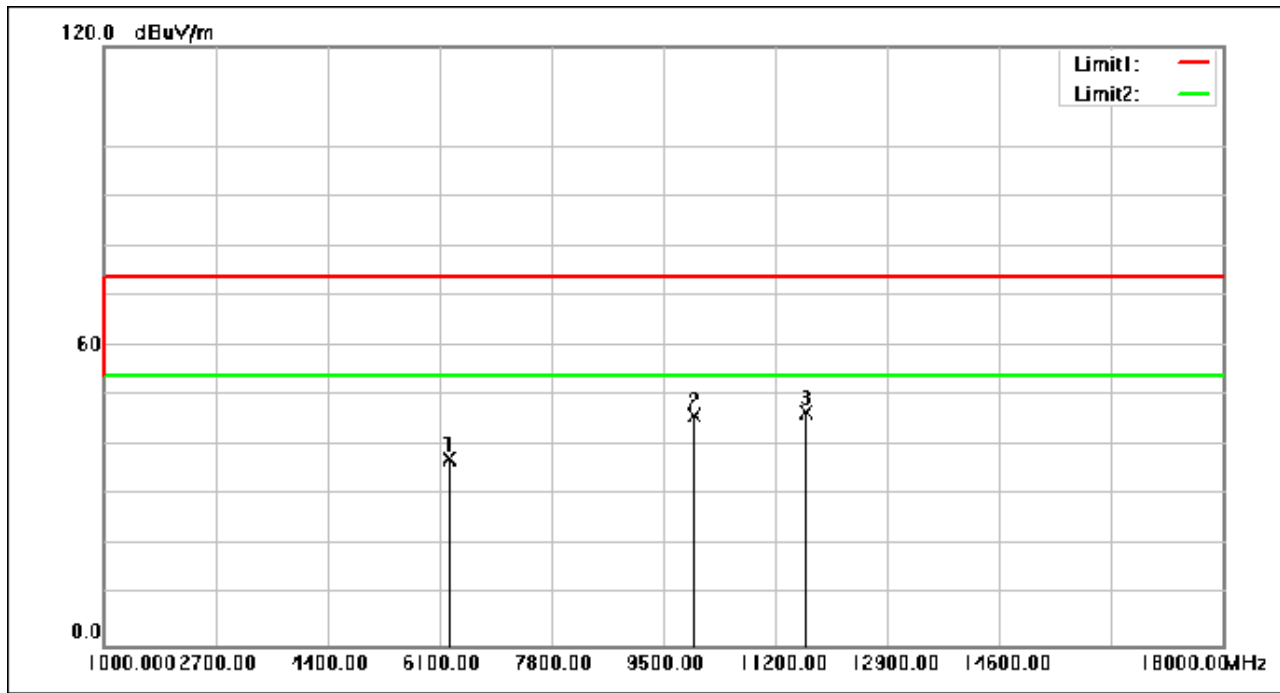
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6268.300	51.85	-14.43	37.42	74.00	-36.58	peak
2	9959.850	53.48	-7.32	46.16	74.00	-27.84	peak
3	11661.550	52.85	-6.23	46.62	74.00	-27.38	peak

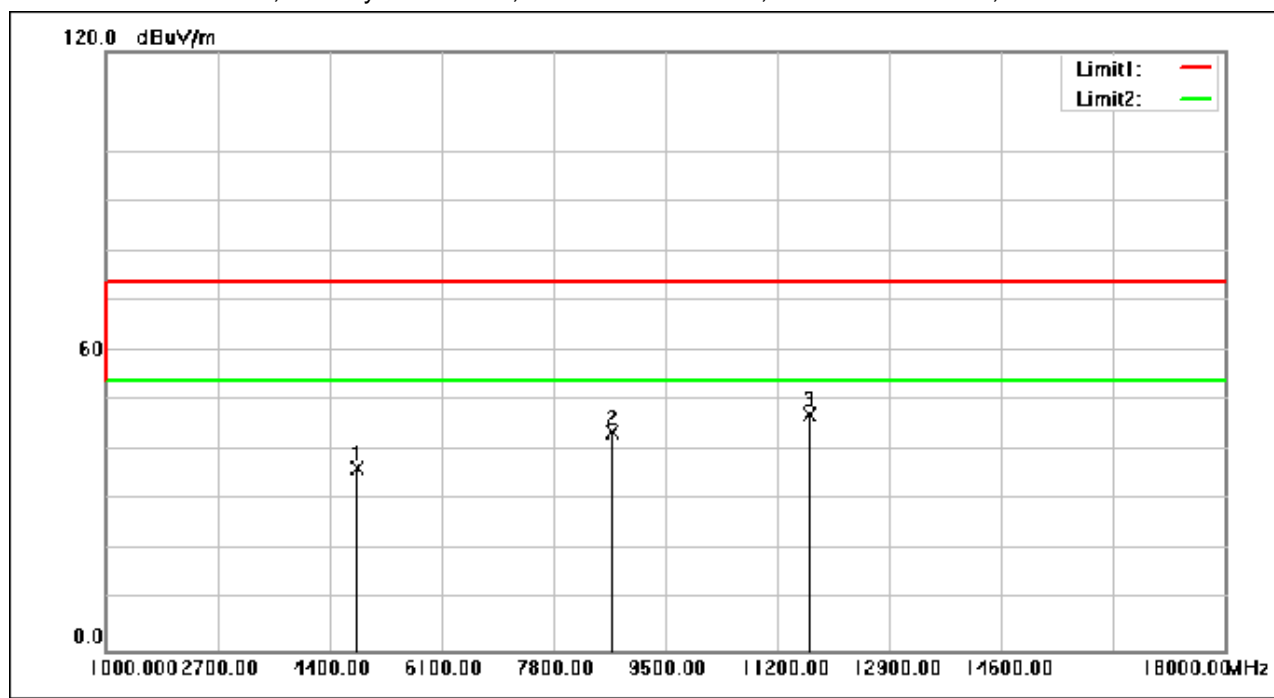
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4836.050	55.03	-18.54	36.49	74.00	-37.51	peak
2	8712.900	52.97	-9.41	43.56	74.00	-30.44	peak
3	11704.050	53.41	-6.20	47.21	74.00	-26.79	peak



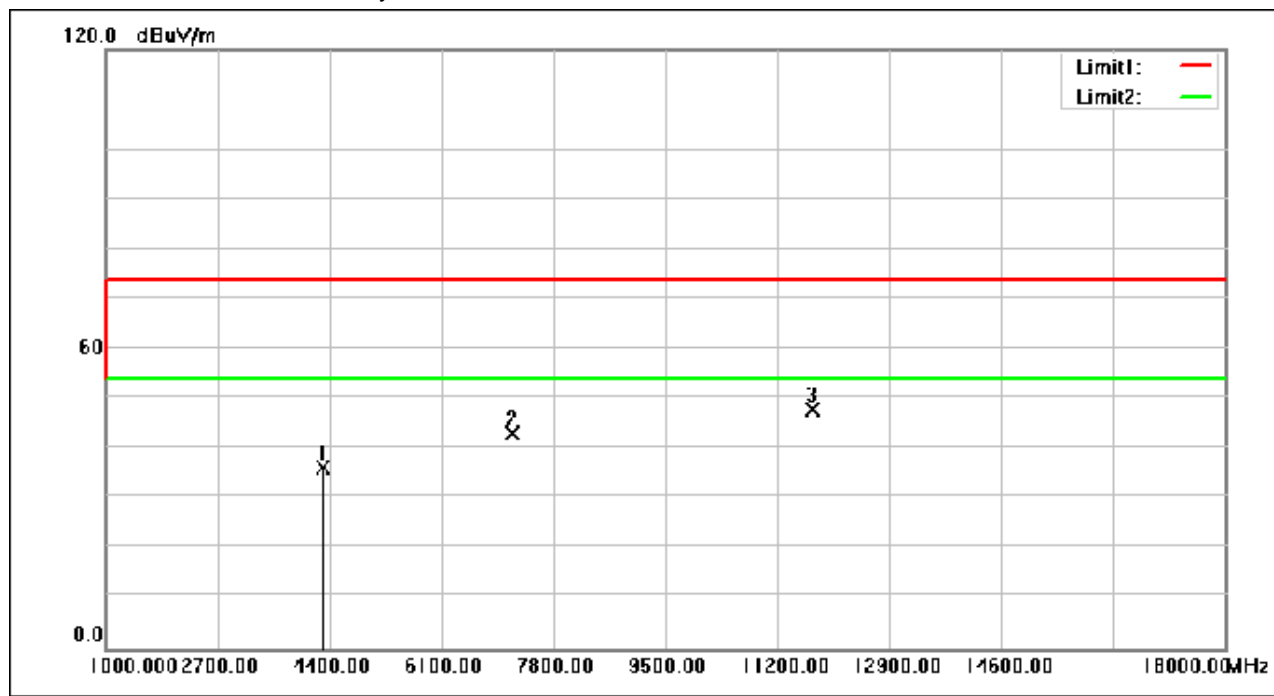
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No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4312.450	55.79	-19.51	36.28	74.00	-37.72	peak
2	7171.850	54.42	-11.49	42.93	74.00	-31.07	peak
3	11737.200	53.87	-6.16	47.71	74.00	-26.29	peak

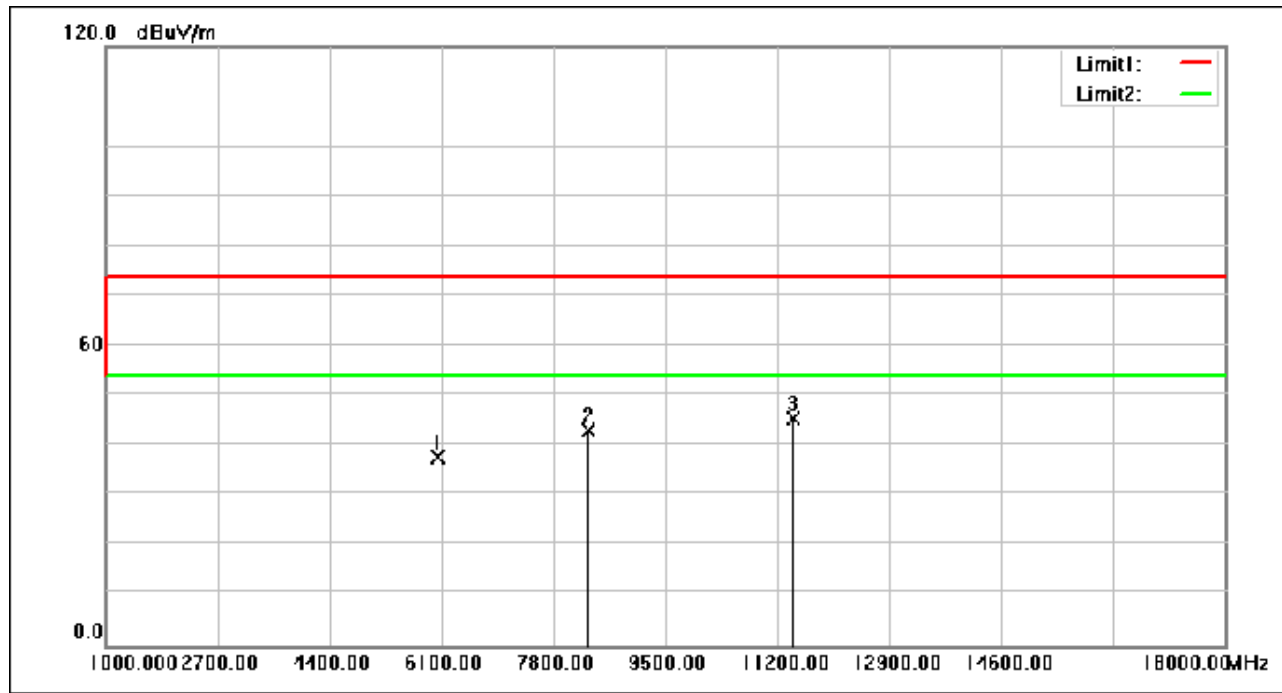
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6052.400	53.25	-15.53	37.72	74.00	-36.28	peak
2	8342.300	53.10	-10.02	43.08	74.00	-30.92	peak
3	11440.550	51.74	-6.41	45.33	74.00	-28.67	peak

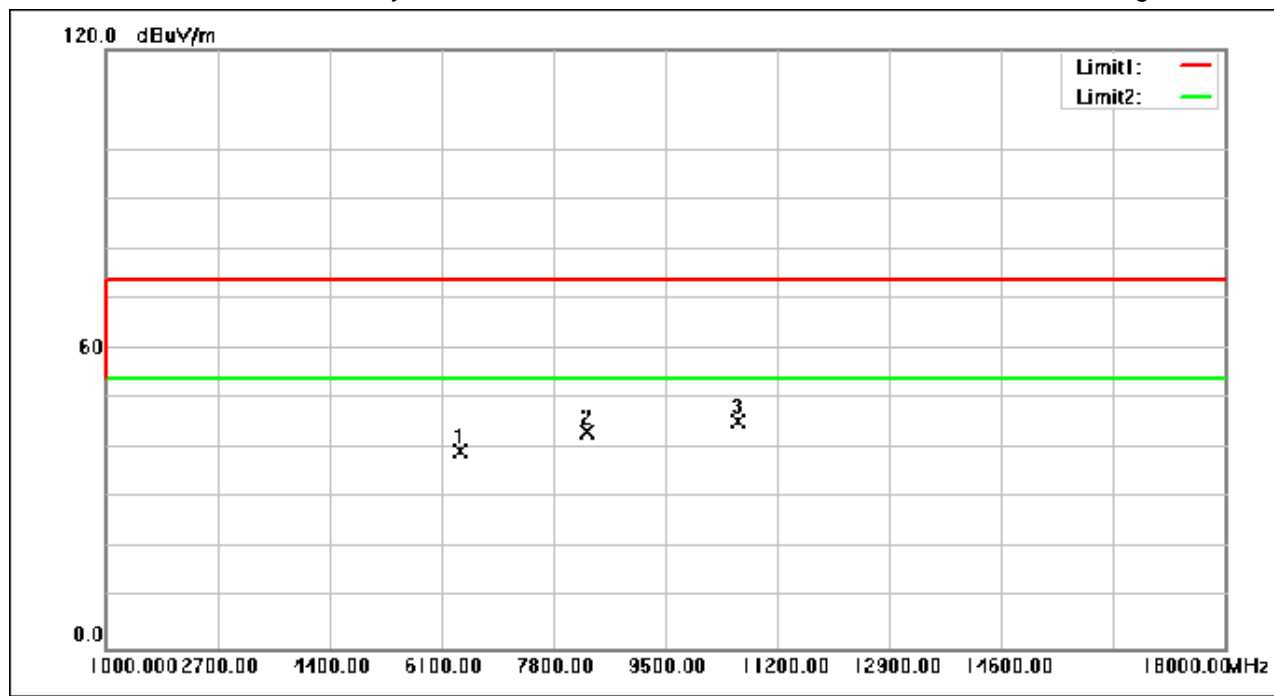
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No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6403.450	53.08	-13.73	39.35	74.00	-34.65	peak
2	8311.700	53.47	-10.07	43.40	74.00	-30.60	peak
3	10613.500	52.46	-6.97	45.49	74.00	-28.51	peak

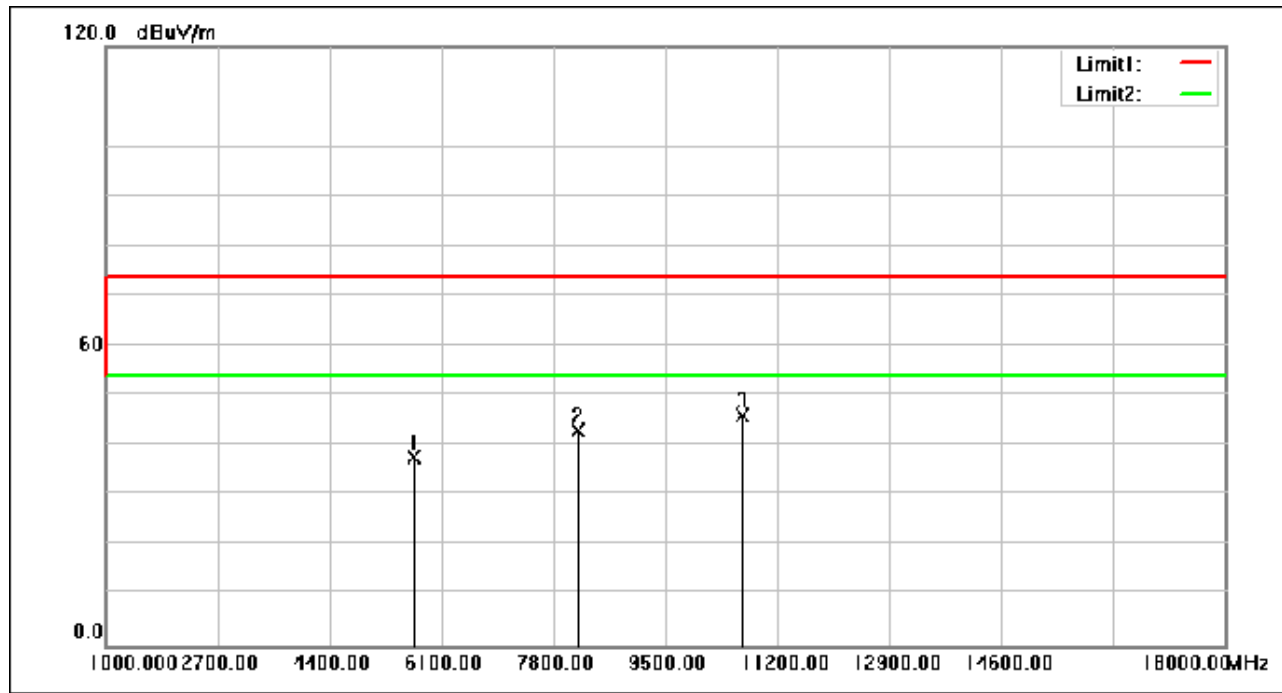
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5677.550	54.70	-17.12	37.58	74.00	-36.42	peak
2	8178.250	53.20	-10.29	42.91	74.00	-31.09	peak
3	10673.000	52.90	-6.94	45.96	74.00	-28.04	peak

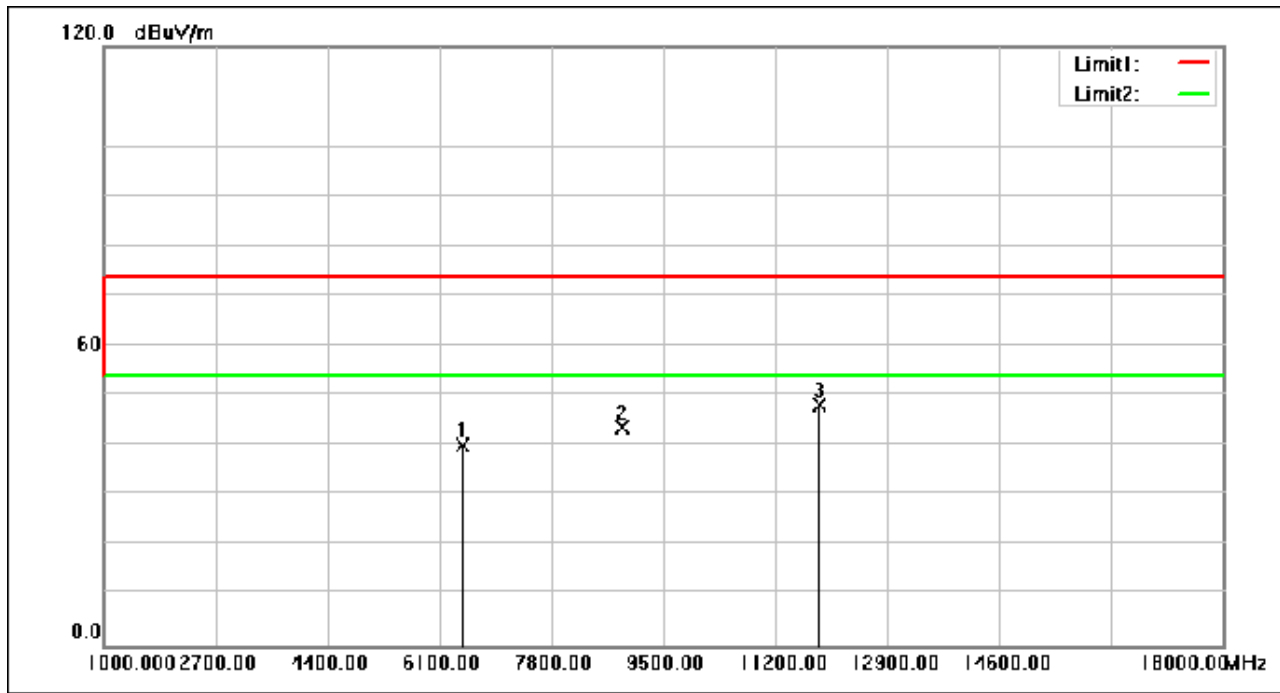
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6460.400	53.40	-13.43	39.97	74.00	-34.03	peak
2	8882.050	52.93	-9.13	43.80	74.00	-30.20	peak
3	11874.050	54.32	-6.06	48.26	74.00	-25.74	peak

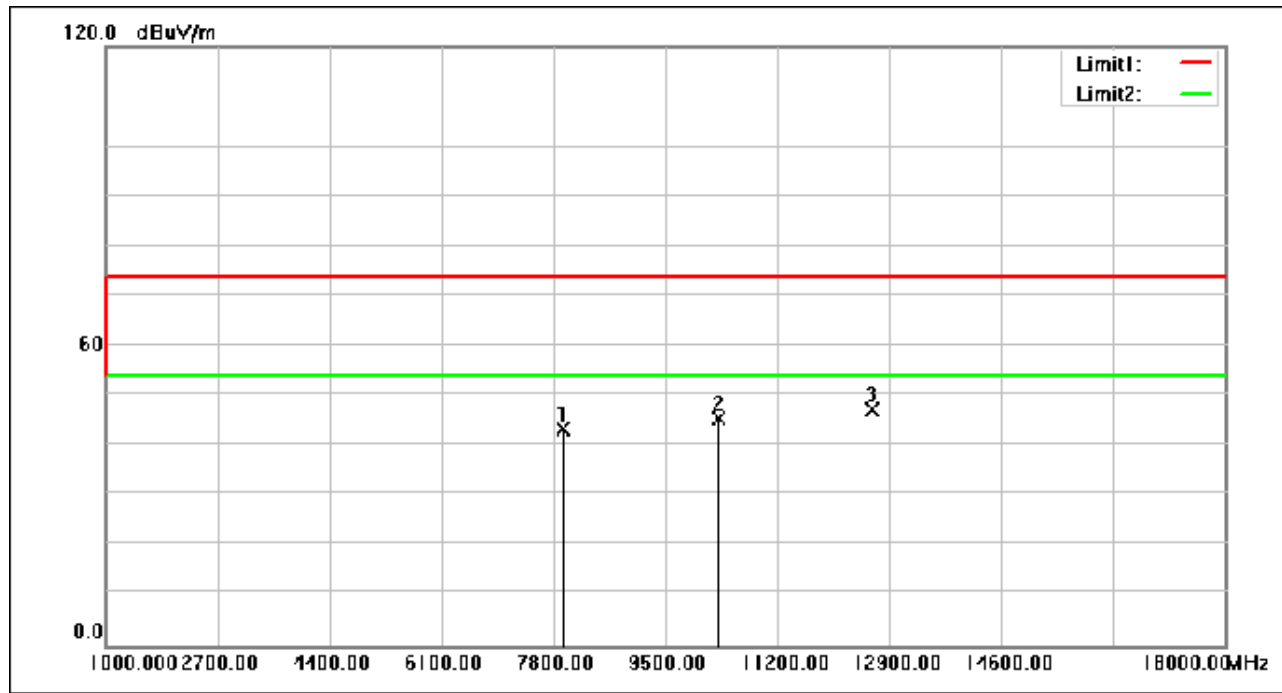
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7963.200	53.88	-10.65	43.23	74.00	-30.77	peak
2	10315.150	52.67	-7.15	45.52	74.00	-28.48	peak
3	12650.100	53.36	-6.19	47.17	74.00	-26.83	peak

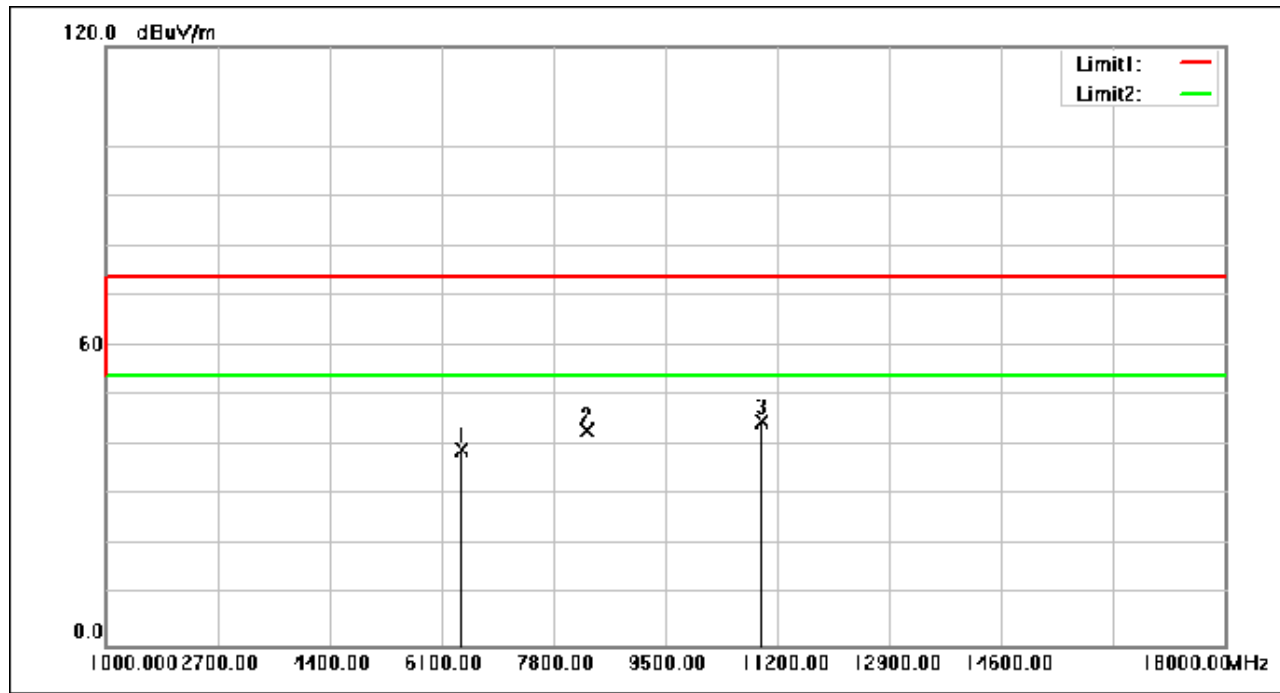
## Compliance Certification Services (Kunshan) Inc.

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6416.200	52.95	-13.66	39.29	74.00	-34.71	peak
2	8317.650	53.15	-10.05	43.10	74.00	-30.90	peak
3	10968.800	51.69	-6.78	44.91	74.00	-29.09	peak

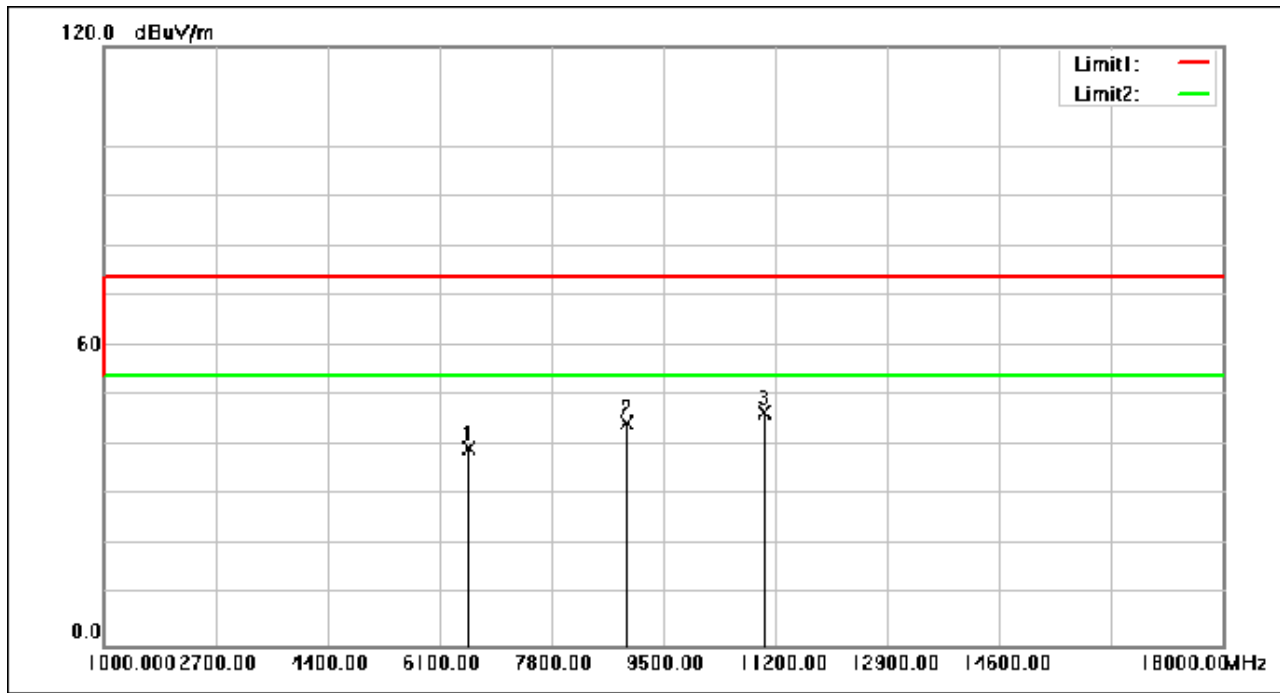
## Compliance Certification Services (Kunshan) Inc.

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6553.050	52.53	-12.95	39.58	74.00	-34.42	peak
2	8941.550	53.71	-9.03	44.68	74.00	-29.32	peak
3	11038.500	53.45	-6.73	46.72	74.00	-27.28	peak



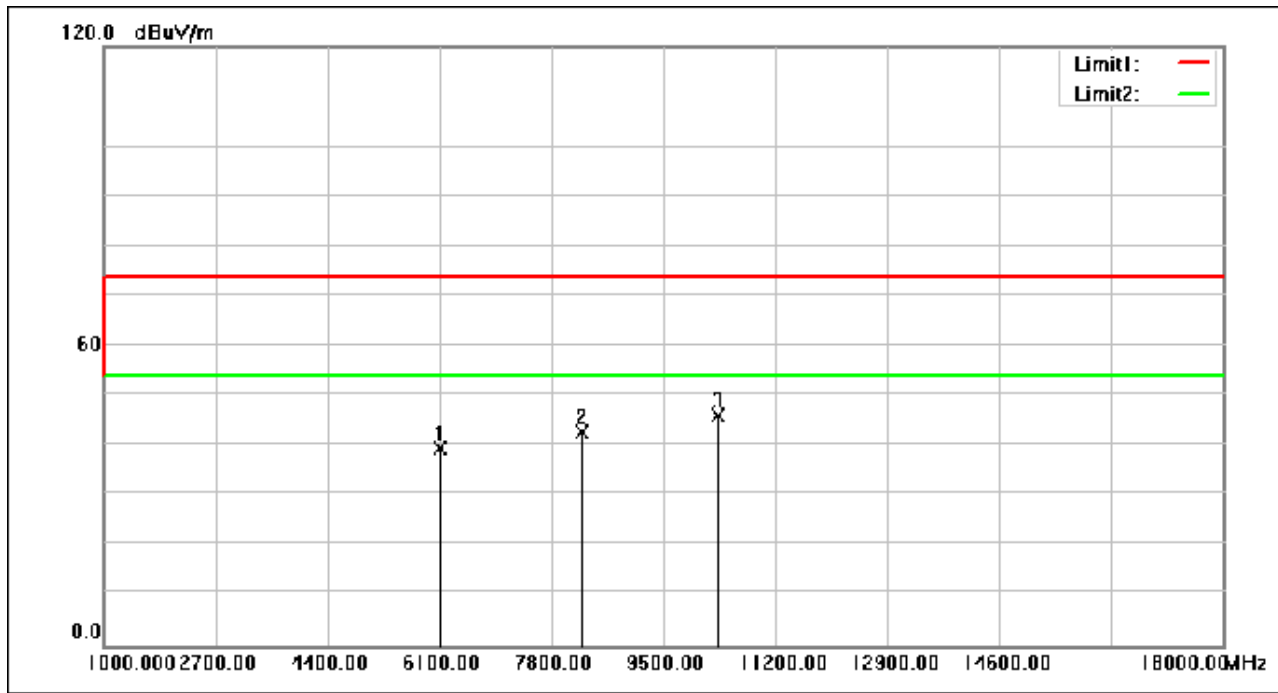
## Compliance Certification Services (Kunshan) Inc.

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



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6129.750	54.47	-15.16	39.31	74.00	-34.69	peak
2	8259.000	52.77	-10.15	42.62	74.00	-31.38	peak
3	10338.950	53.32	-7.13	46.19	74.00	-27.81	peak

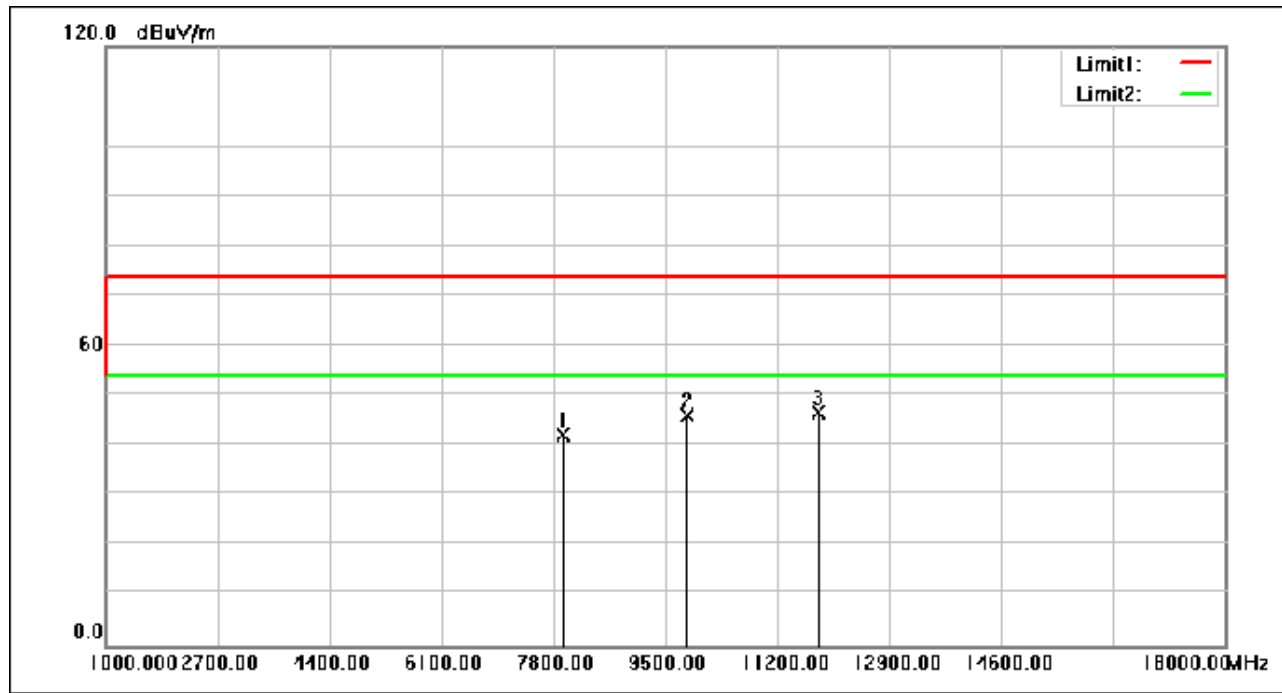
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7962.350	52.92	-10.65	42.27	74.00	-31.73	peak
2	9837.450	53.49	-7.31	46.18	74.00	-27.82	peak
3	11837.500	52.81	-6.08	46.73	74.00	-27.27	peak

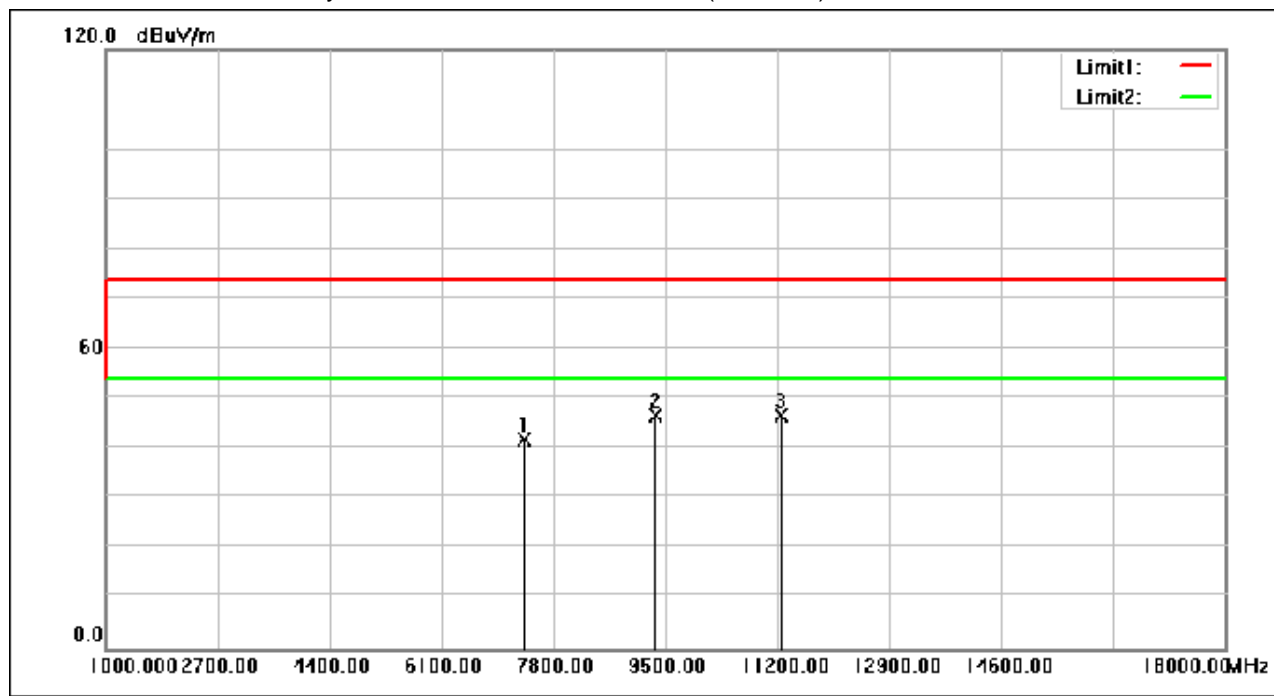
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7364.800	53.26	-11.40	41.86	74.00	-32.14	peak
2	9352.100	54.94	-8.24	46.70	74.00	-27.30	peak
3	11252.700	53.15	-6.56	46.59	74.00	-27.41	peak

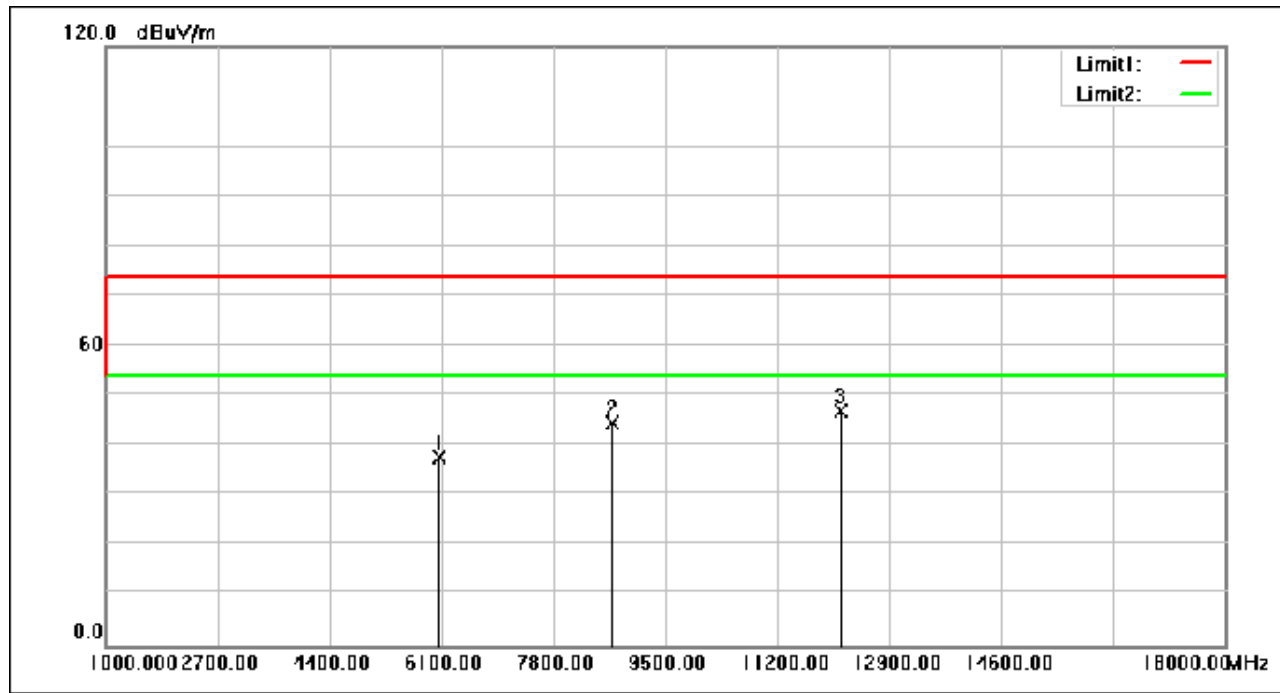
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6080.450	53.14	-15.40	37.74	74.00	-36.26	peak
2	8702.700	54.02	-9.42	44.60	74.00	-29.40	peak
3	12184.300	52.95	-5.97	46.98	74.00	-27.02	peak

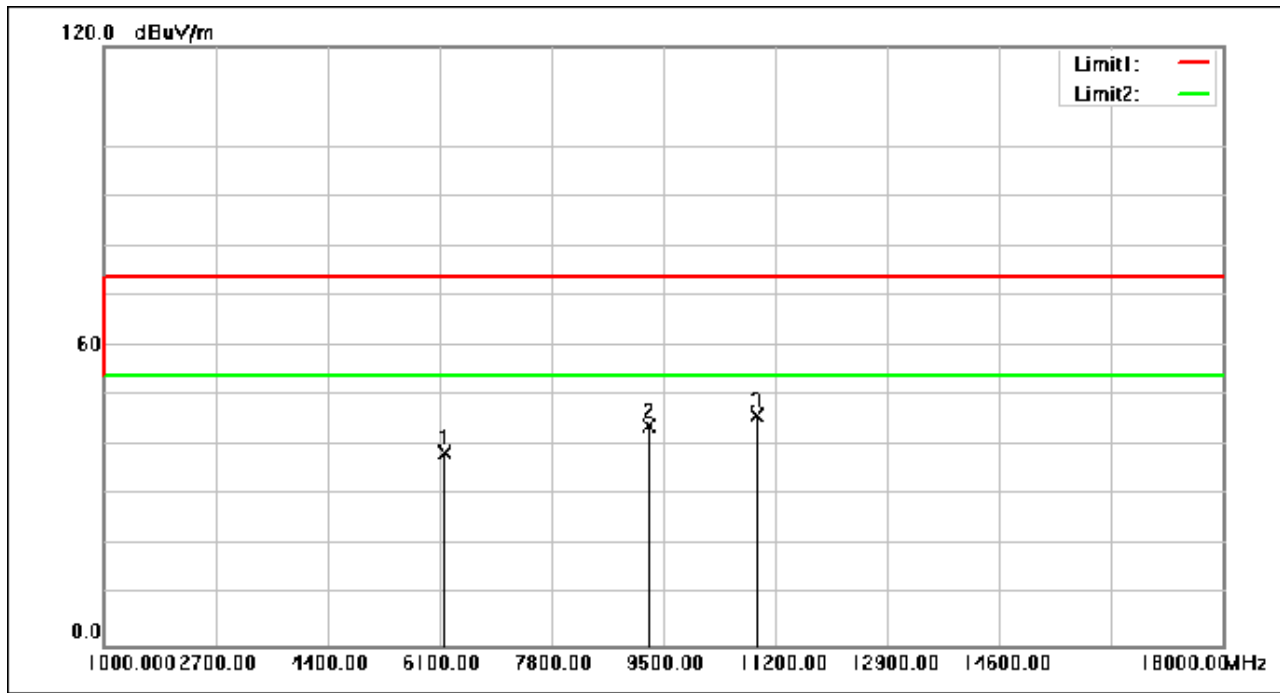
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6190.950	53.50	-14.84	38.66	74.00	-35.34	peak
2	9290.050	52.41	-8.35	44.06	74.00	-29.94	peak
3	10912.700	52.87	-6.81	46.06	74.00	-27.94	peak

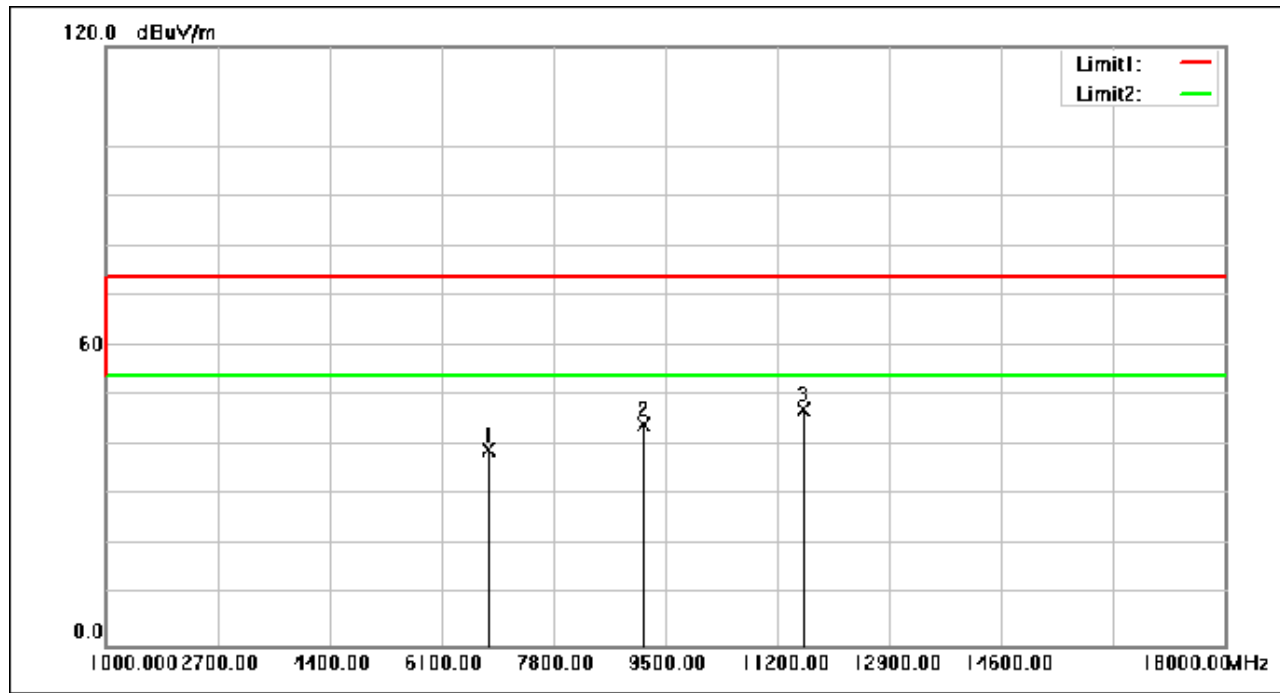
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6819.950	51.14	-11.88	39.26	74.00	-34.74	peak
2	9182.950	52.68	-8.55	44.13	74.00	-29.87	peak
3	11596.100	53.67	-6.28	47.39	74.00	-26.61	peak

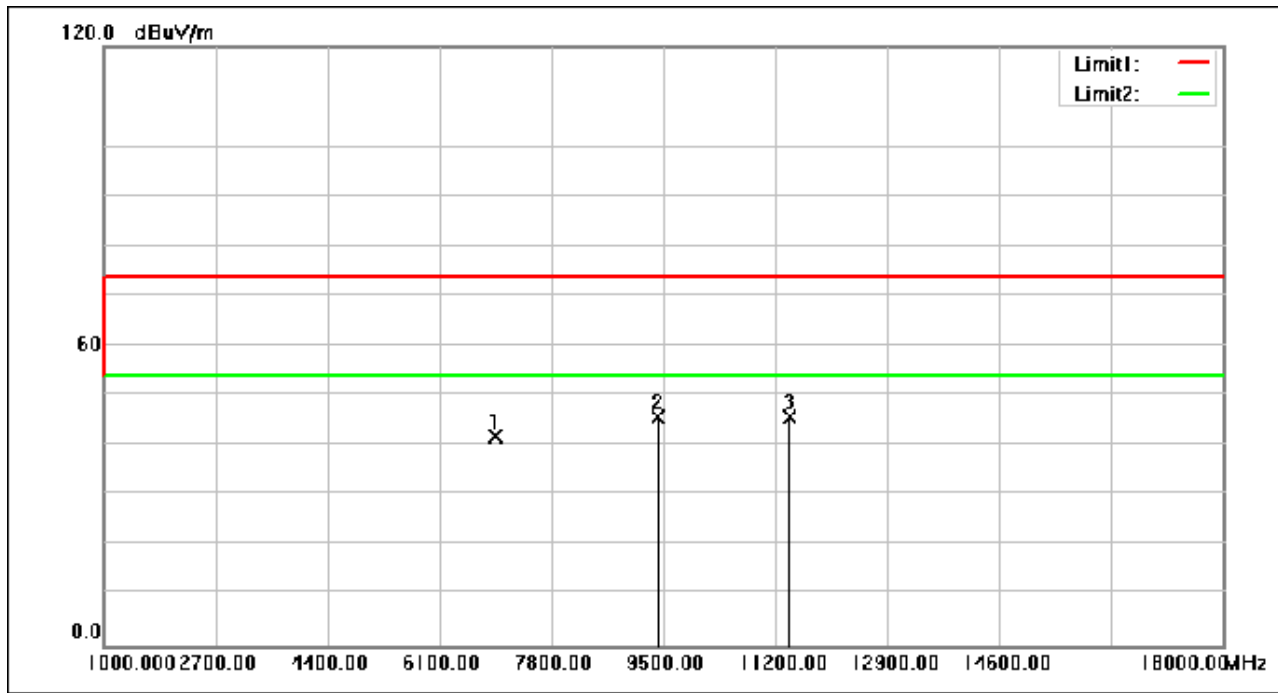
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6950.850	53.65	-11.65	42.00	74.00	-32.00	peak
2	9415.000	53.91	-8.11	45.80	74.00	-28.20	peak
3	11422.700	52.25	-6.42	45.83	74.00	-28.17	peak

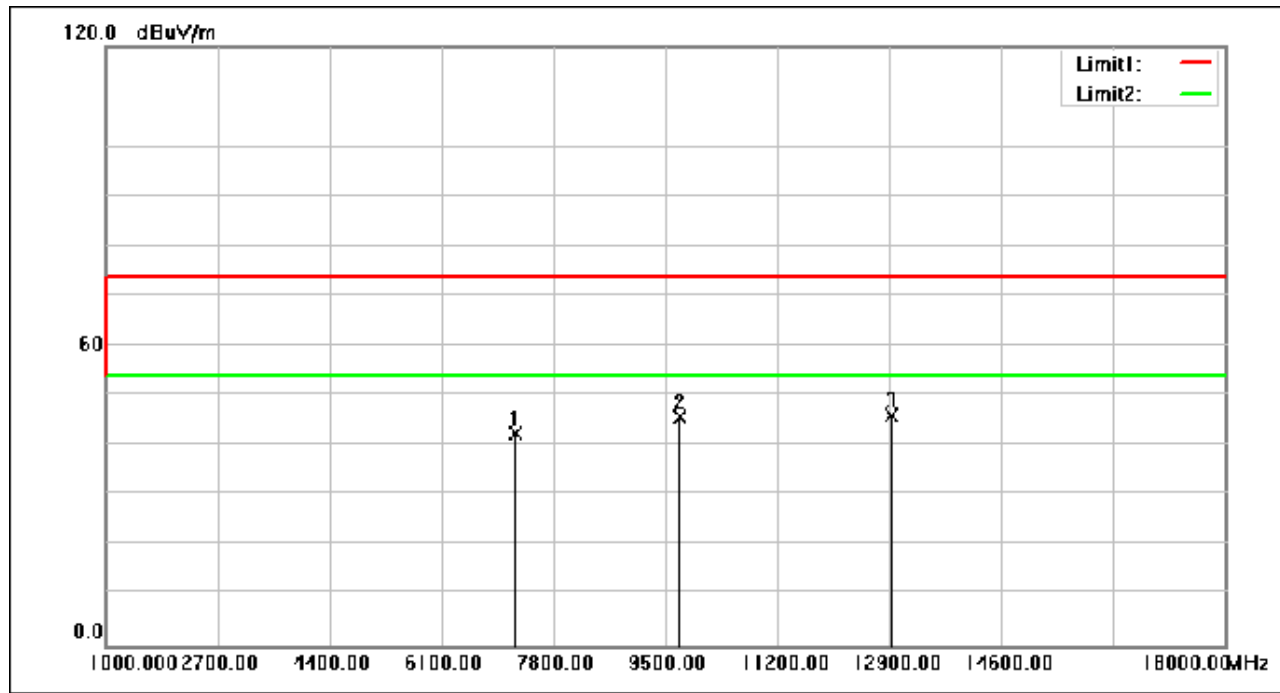
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7235.600	53.90	-11.47	42.43	74.00	-31.57	peak
2	9722.700	53.32	-7.53	45.79	74.00	-28.21	peak
3	12944.200	52.28	-6.32	45.96	74.00	-28.04	peak



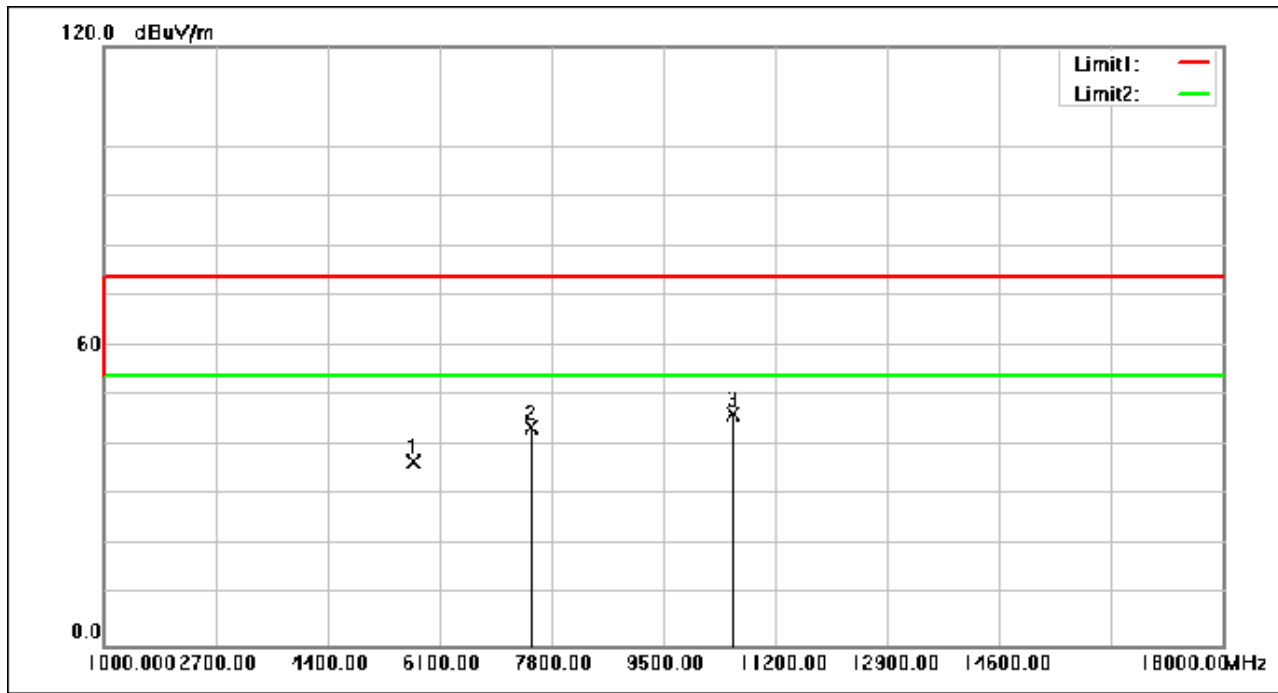
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5714.100	53.83	-16.96	36.87	74.00	-37.13	peak
2	7496.550	54.77	-11.26	43.51	74.00	-30.49	peak
3	10565.900	53.38	-7.00	46.38	74.00	-27.62	peak

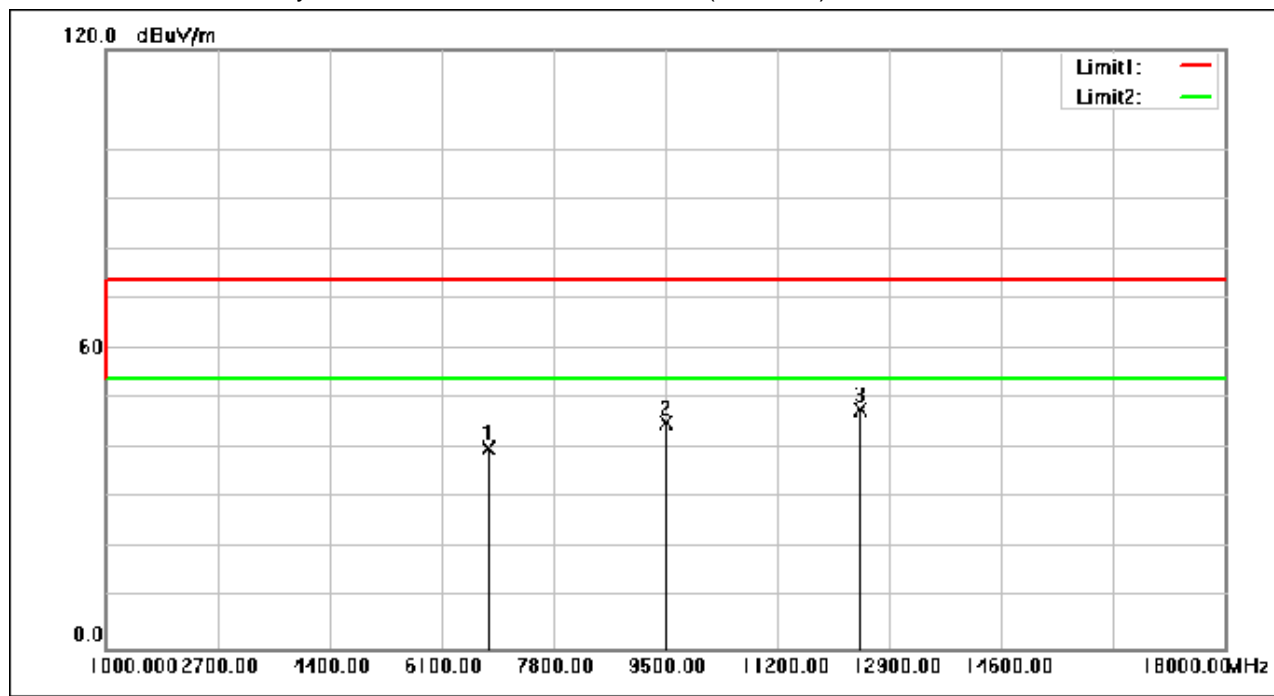
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6819.100	52.06	-11.88	40.18	74.00	-33.82	peak
2	9531.450	53.12	-7.89	45.23	74.00	-28.77	peak
3	12467.350	54.03	-6.10	47.93	74.00	-26.07	peak

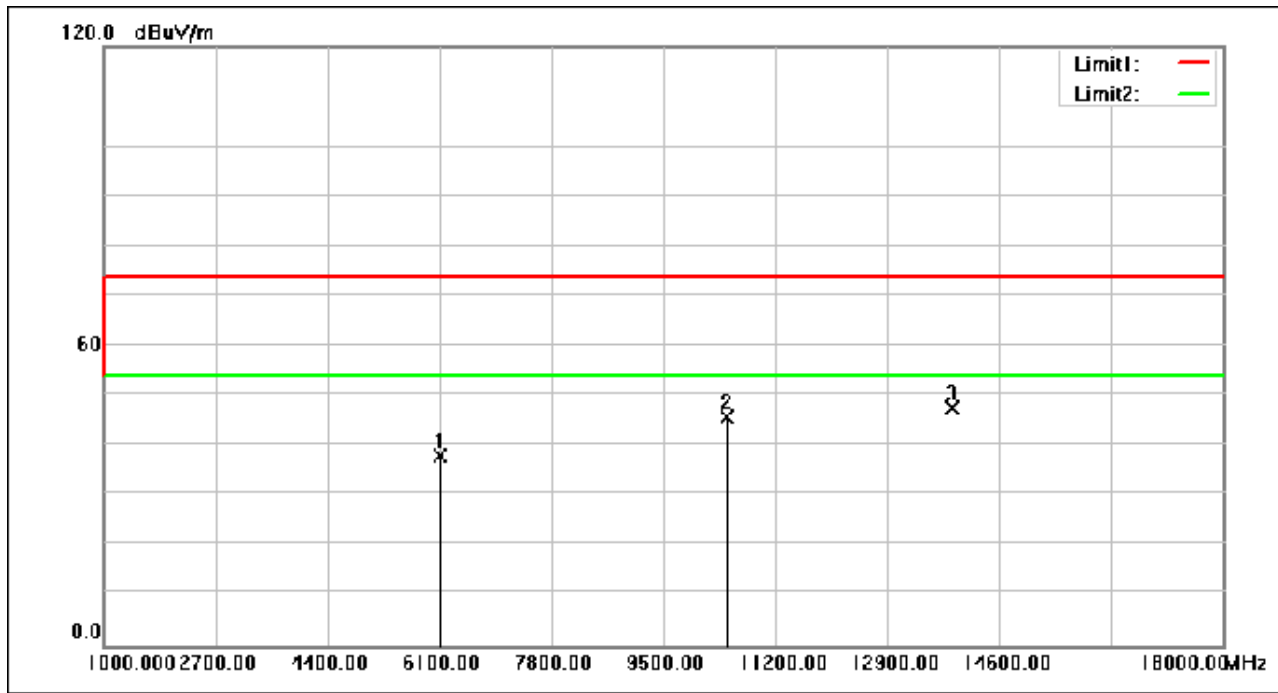
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6125.500	53.14	-15.18	37.96	74.00	-36.04	peak
2	10473.250	52.92	-7.06	45.86	74.00	-28.14	peak
3	13898.750	53.97	-6.41	47.56	74.00	-26.44	peak

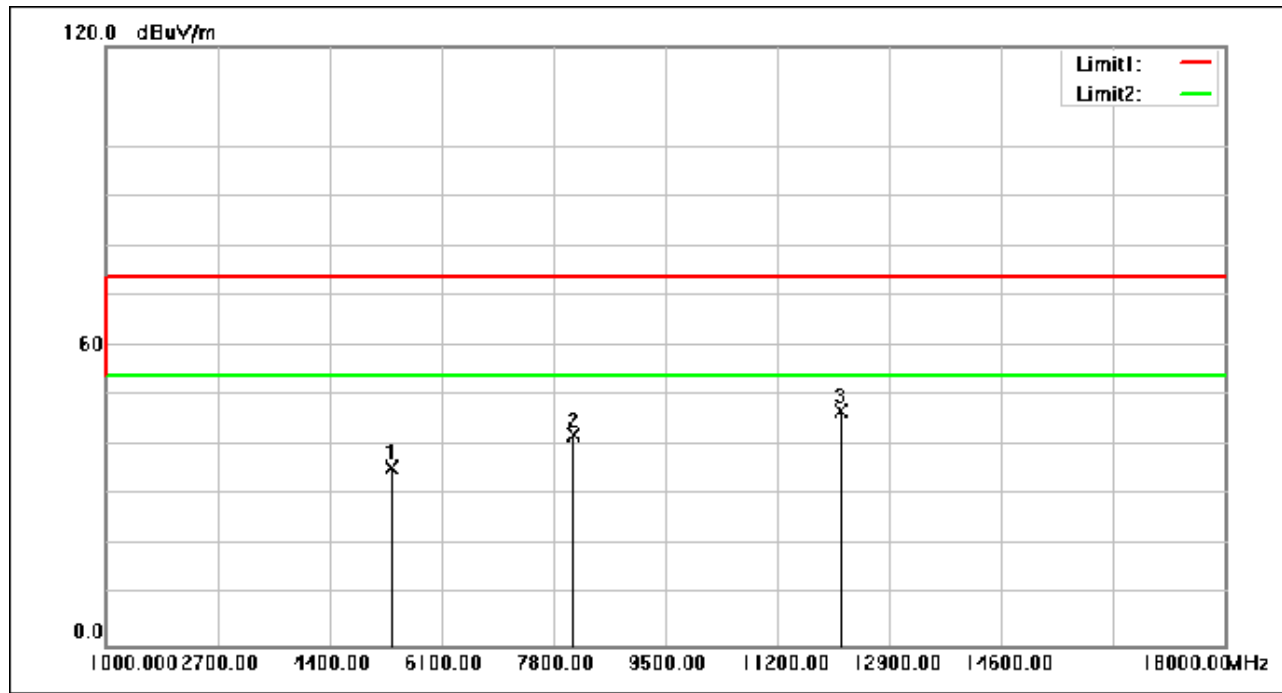
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5335.850	53.61	-17.94	35.67	74.00	-38.33	peak
2	8115.350	52.70	-10.40	42.30	74.00	-31.70	peak
3	12183.450	52.93	-5.97	46.96	74.00	-27.04	peak

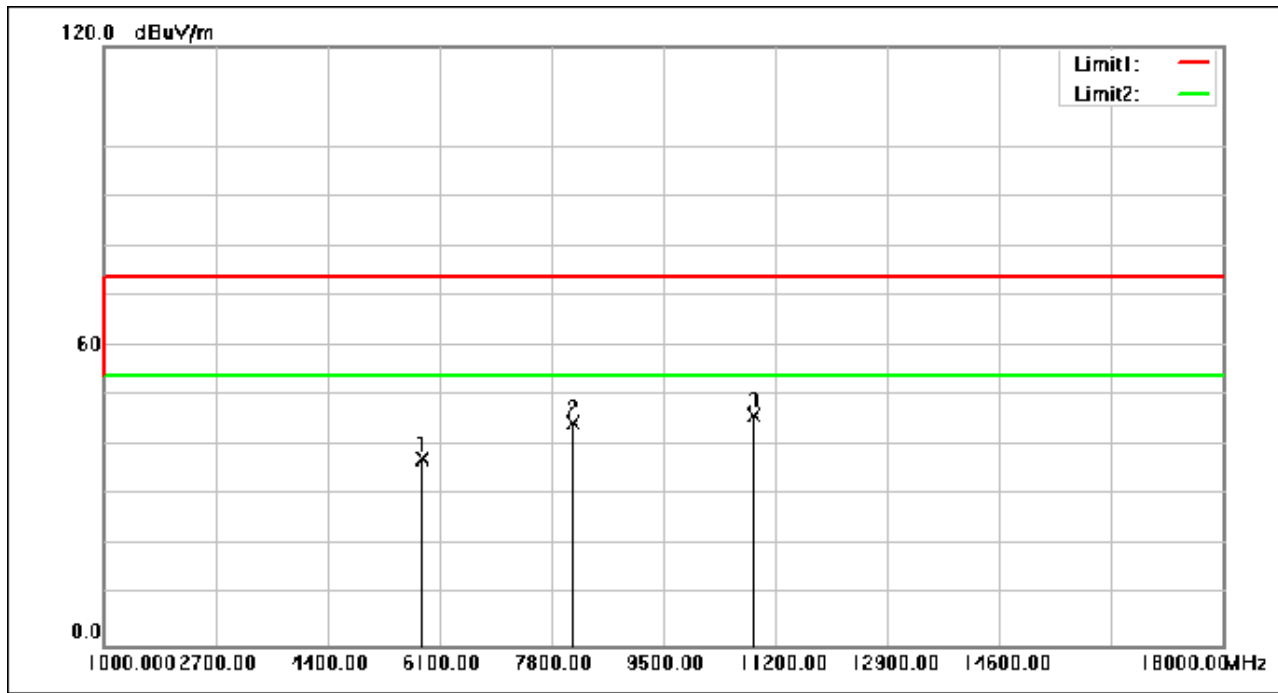
## Compliance Certification Services (Kunshan) Inc.

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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5856.050	53.61	-16.38	37.23	74.00	-36.77	peak
2	8137.450	54.94	-10.35	44.59	74.00	-29.41	peak
3	10883.800	52.83	-6.82	46.01	74.00	-27.99	peak

### 7.5 Conducted Average Output Power

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

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

Limit:

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

#### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 28.8 °C

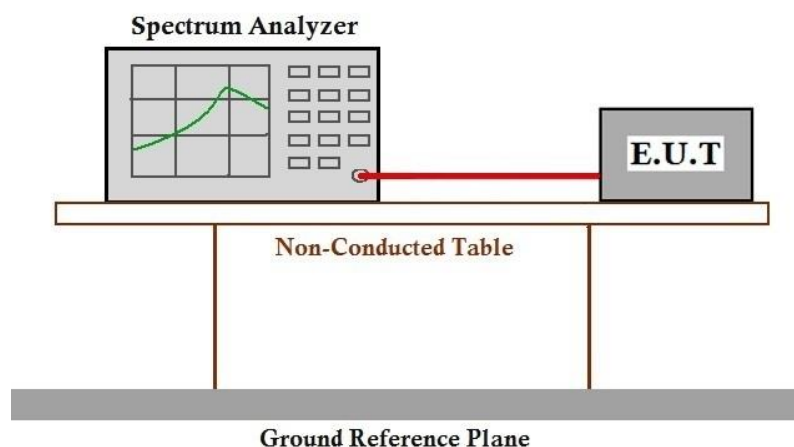
Humidity: 46.7 % RH

Atmospheric Pressure: 1010 mbar

#### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

#### 7.5.3 Test Setup Diagram





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### **7.5.4 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

### 7.6 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

#### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 28.8 °C

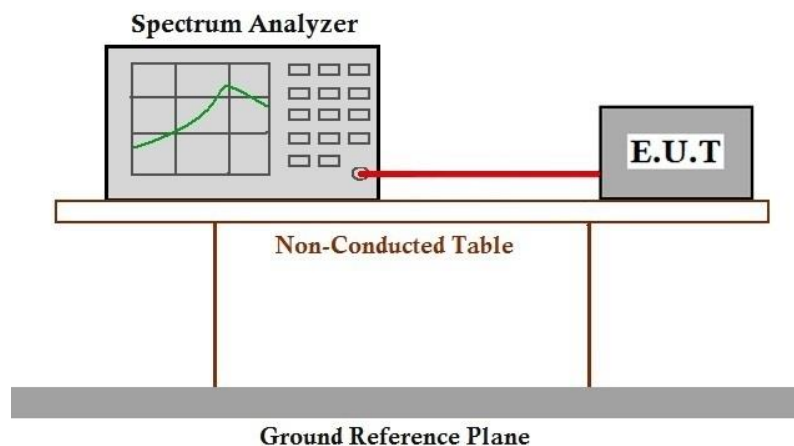
Humidity: 46.6 % RH

Atmospheric Pressure: 1010 mbar

#### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

#### 7.6.3 Test Setup Diagram



#### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



### 7.7 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

#### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 28.8 °C

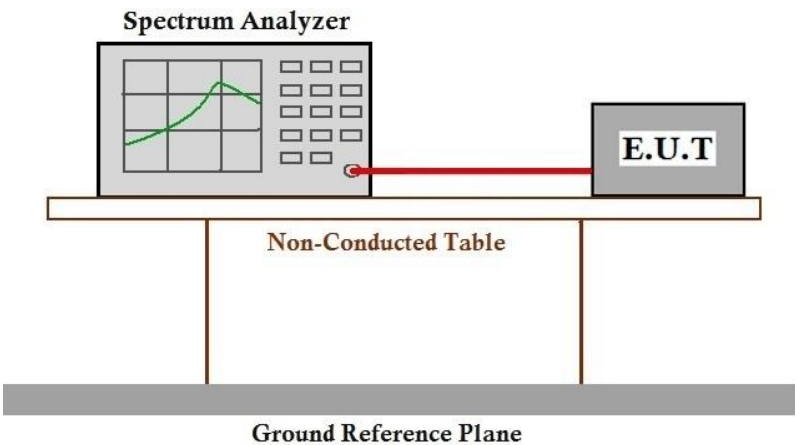
Humidity: 46.6 % RH

Atmospheric Pressure: 1010 mbar

#### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

#### 7.7.3 Test Setup Diagram



#### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

### 7.8 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)).

#### 7.8.1 E.U.T. Operation

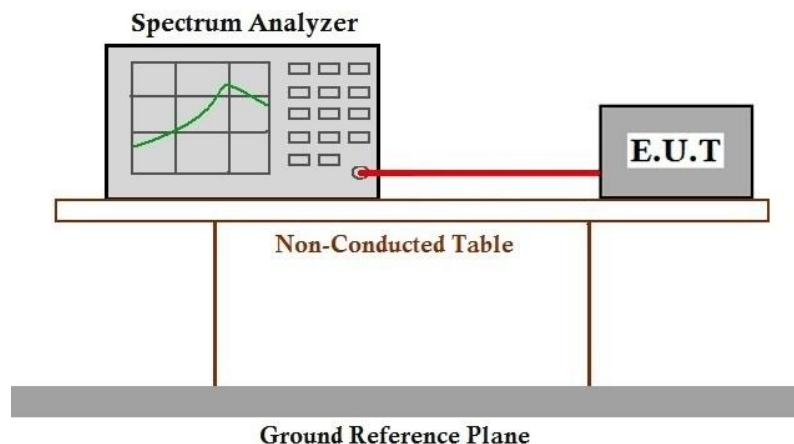
Operating Environment:

Temperature: 28.8 °C Humidity: 46.7 % RH Atmospheric Pressure: 1010 mbar

#### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

#### 7.8.3 Test Setup Diagram





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### **7.8.4 Measurement Procedure and Data**

Please Refer to Appendix for Details

### 7.9 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)).

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

Operating Environment:

Temperature: 28.8 °C

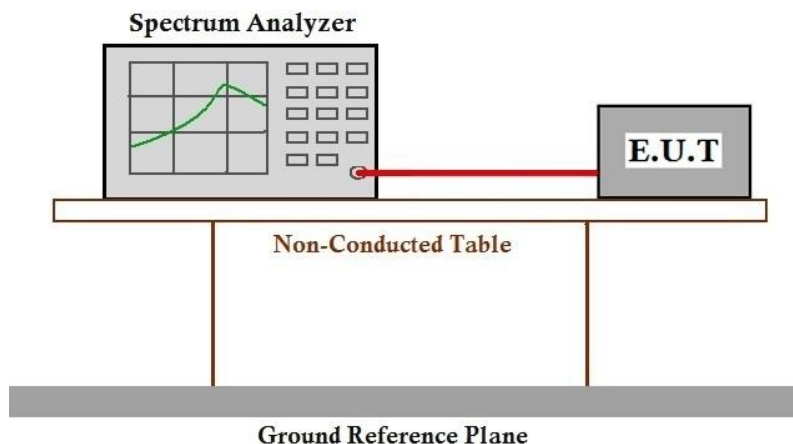
Humidity: 46.6 % RH

Atmospheric Pressure: 1010 mbar

#### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40). Only the data of worst case is recorded in the report.

#### 7.9.3 Test Setup Diagram





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### **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 KSCR2408001515AT

### **9 EUT Constructional Details (EUT Photos)**

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2408001515AT

## 10 Appendix

### 1. Duty Cycle

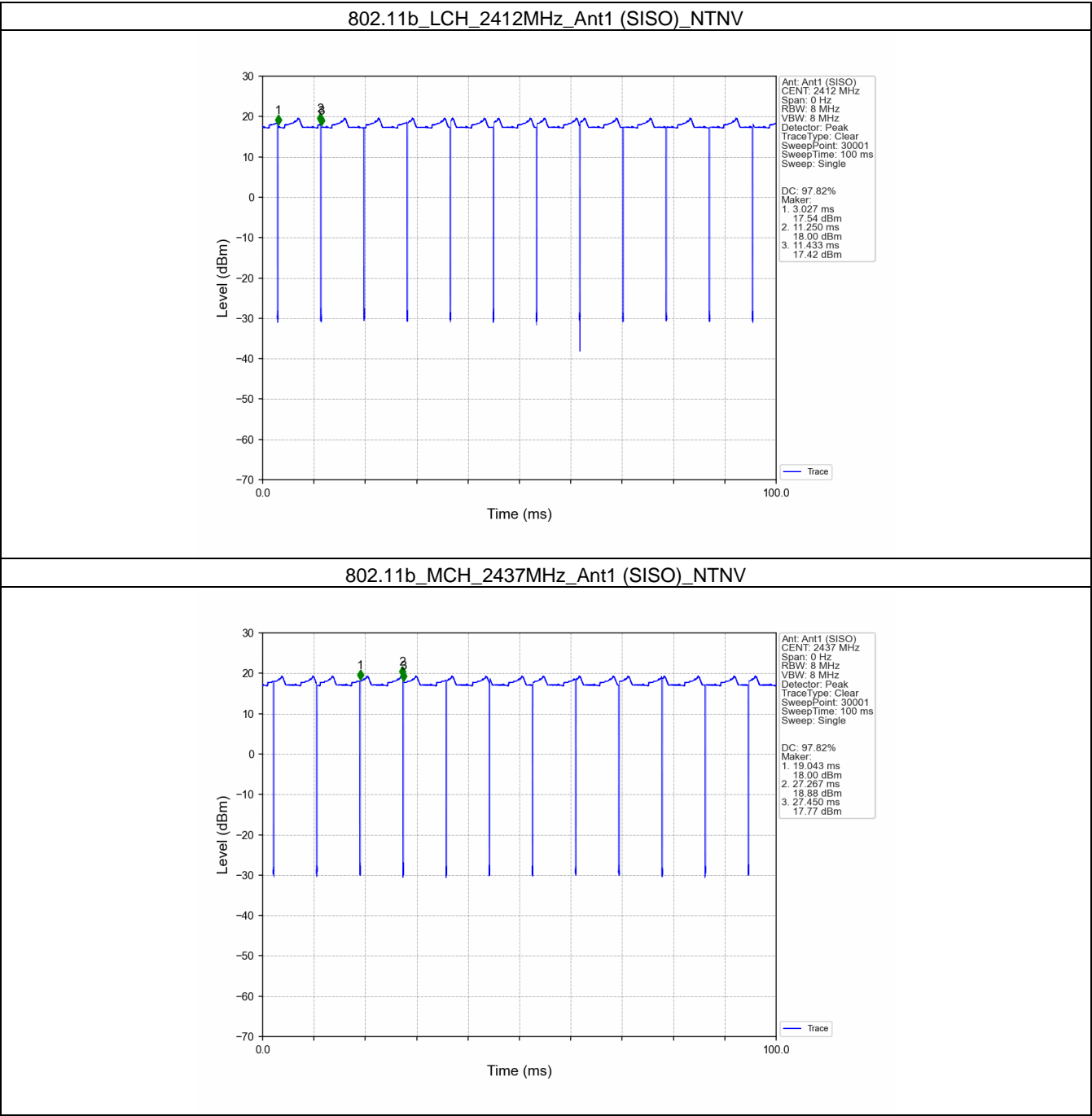
#### 1.1 Test Result

##### 1.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.223	8.406	97.82	0.10	0.04
		2437	/	/	8.224	8.407	97.82	0.10	0.04
		2462	/	/	8.223	8.406	97.82	0.10	0.04
802.11g	SISO	2412	/	/	1.364	1.550	88.00	0.56	0.03
		2437	/	/	1.365	1.550	88.06	0.55	0.03
		2462	/	/	1.364	1.550	88.00	0.56	0.03
802.11n (HT20)	SISO	2412	/	/	1.276	1.461	87.34	0.59	0.00
		2437	/	/	1.275	1.462	87.21	0.59	0.06
		2462	/	/	1.276	1.462	87.28	0.59	0.06
802.11n (HT40)	SISO	2422	/	/	0.637	0.822	77.49	1.11	0.06
		2437	/	/	0.636	0.822	77.37	1.11	0.06
		2452	/	/	0.637	0.822	77.49	1.11	0.04
802.11ax (HEW20)	SISO	2412	RU242	Left	0.996	1.182	84.26	0.74	0.03
		2437	RU242	Left	0.996	1.182	84.26	0.74	0.03
		2462	RU242	Left	0.996	1.181	84.34	0.74	0.03
802.11ax (HEW40)	SISO	2422	RU484	Left	0.528	0.714	73.95	1.31	0.01
		2437	RU484	Left	0.529	0.714	74.09	1.30	0.03
		2452	RU484	Left	0.529	0.714	74.09	1.30	0.03

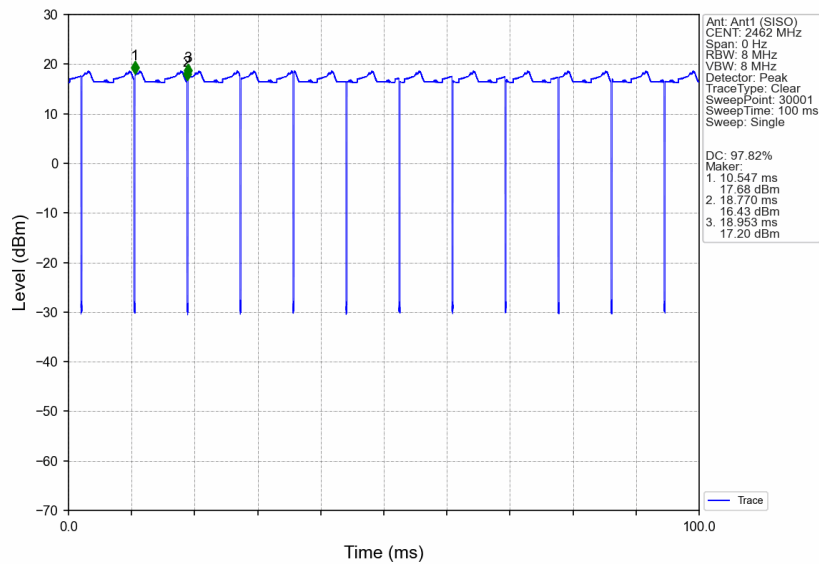
### 1.2 Test Graph

#### 1.2.1 Ant1

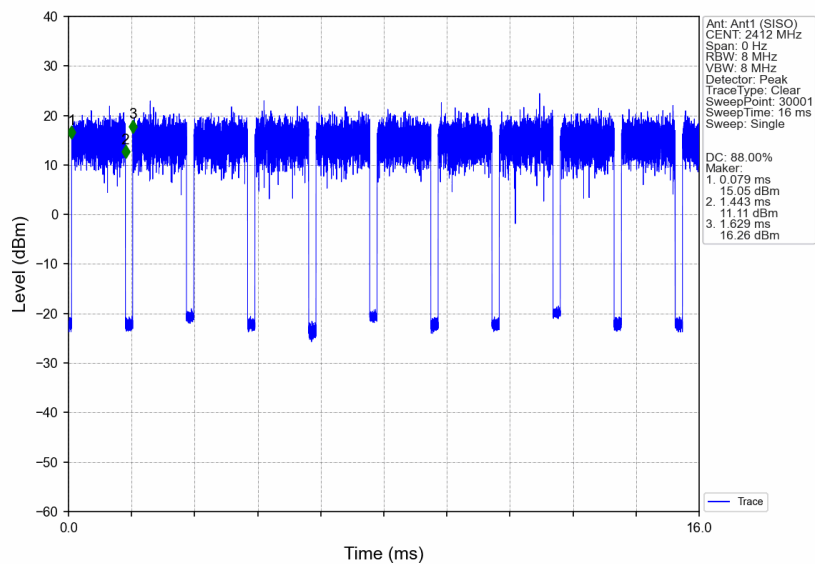




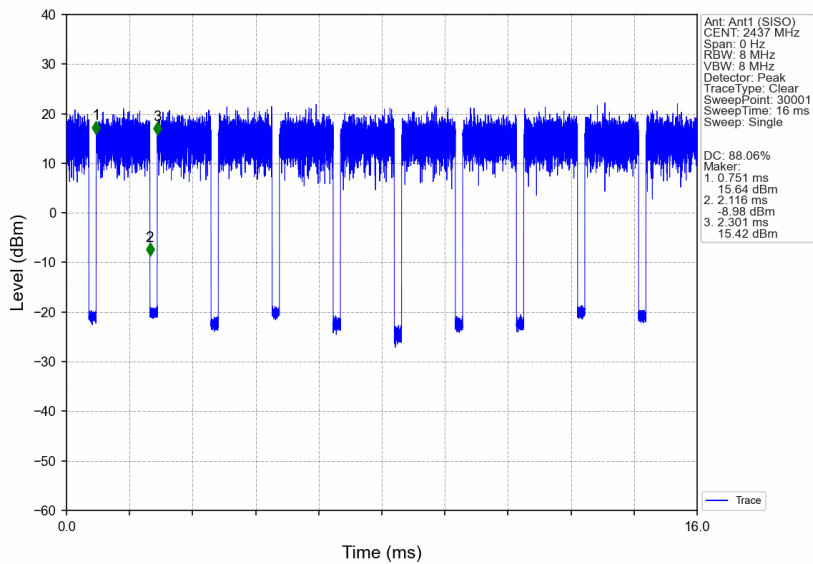
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



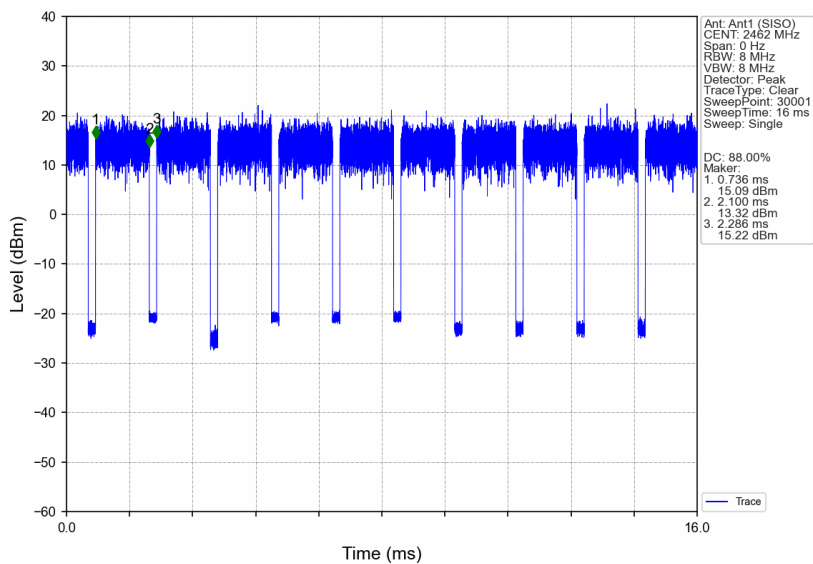
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



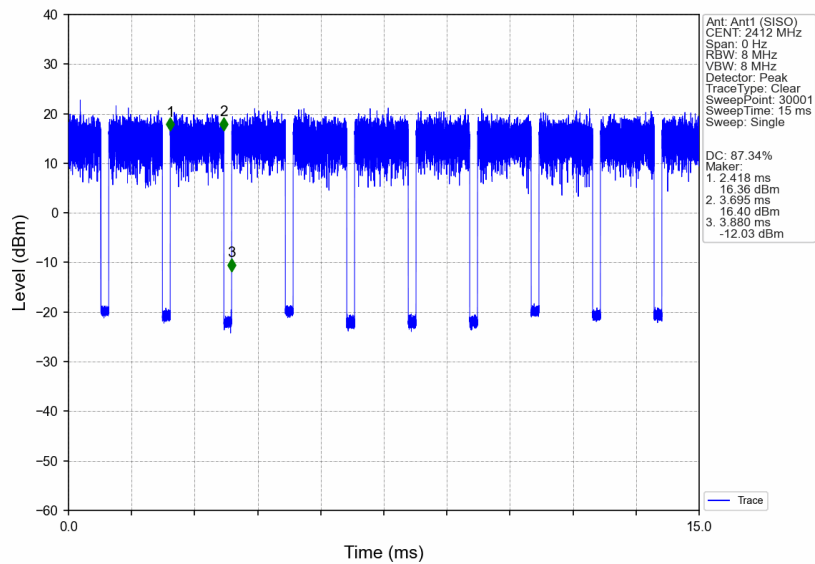
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



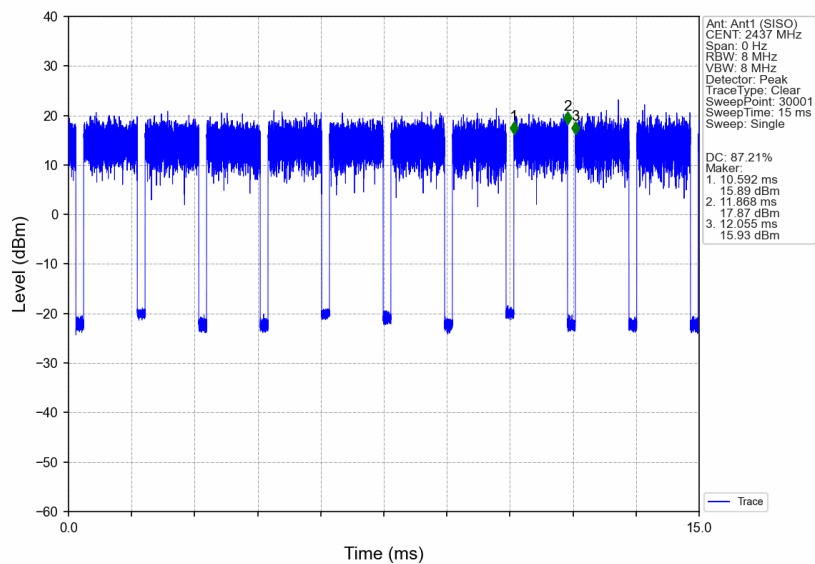
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



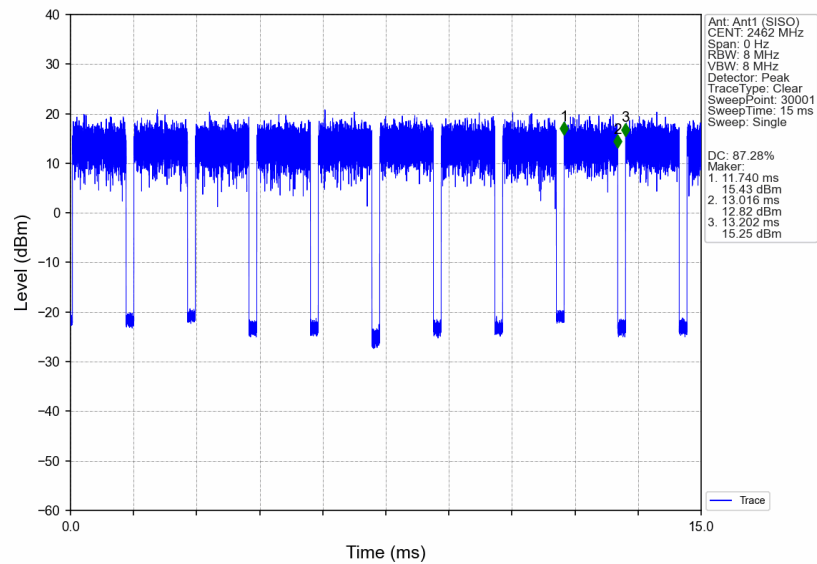
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



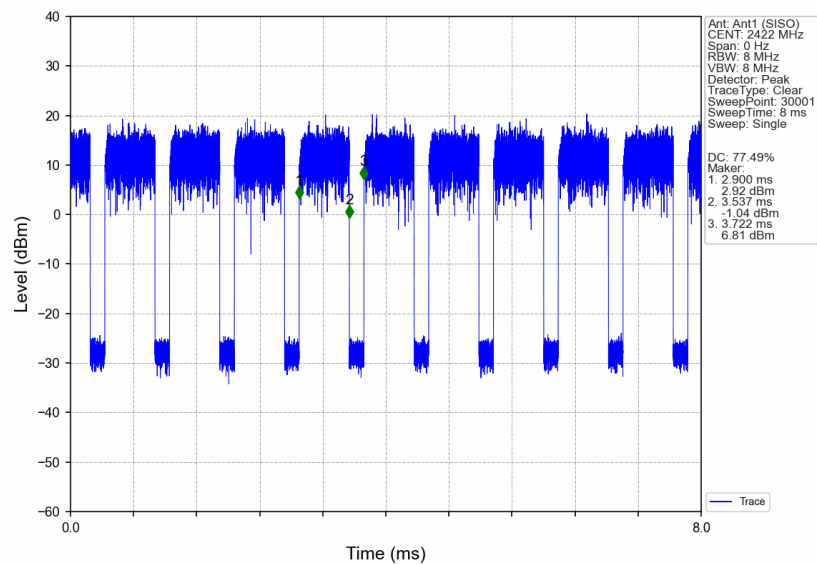
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



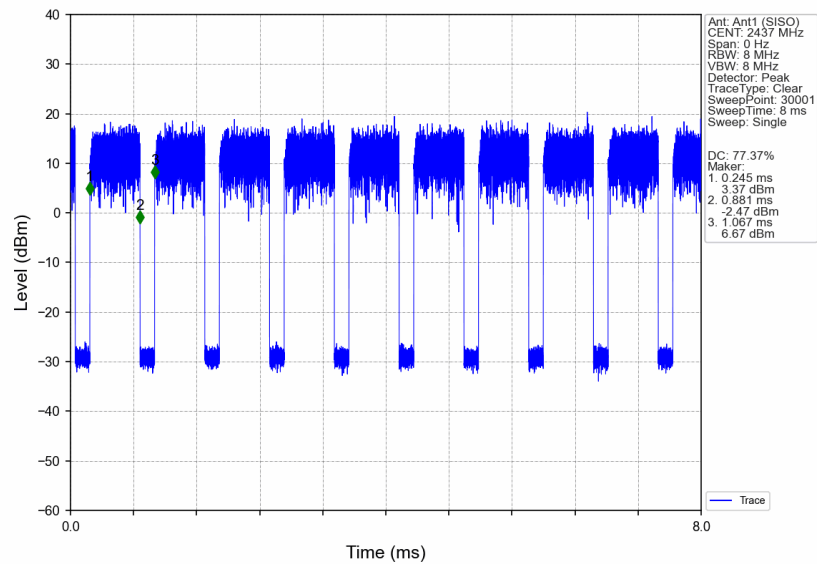
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



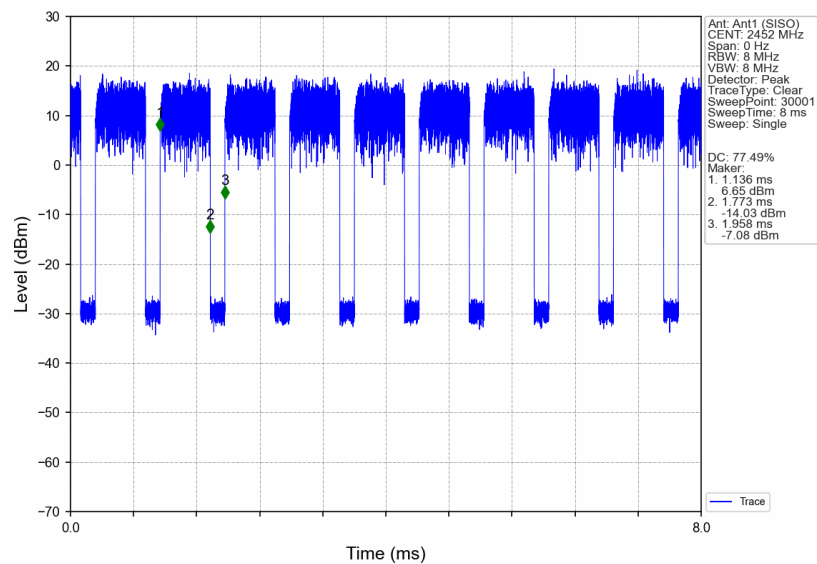
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



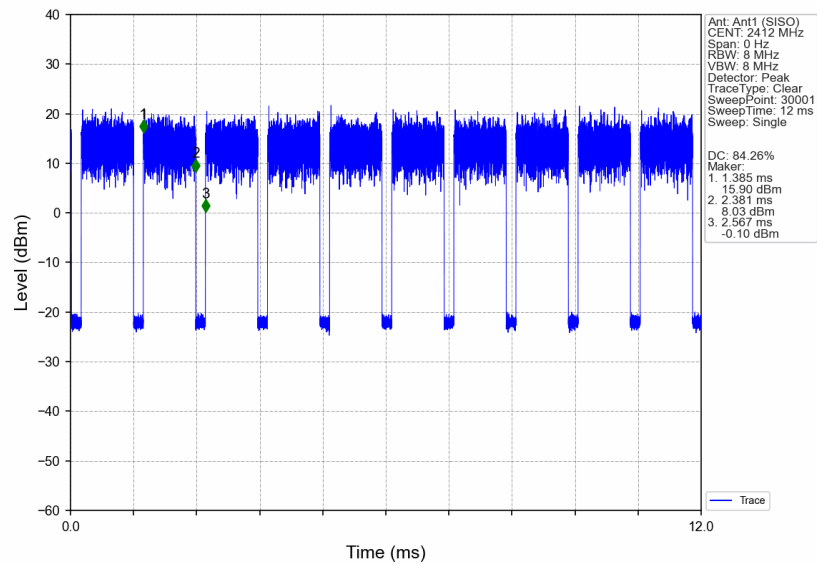
802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



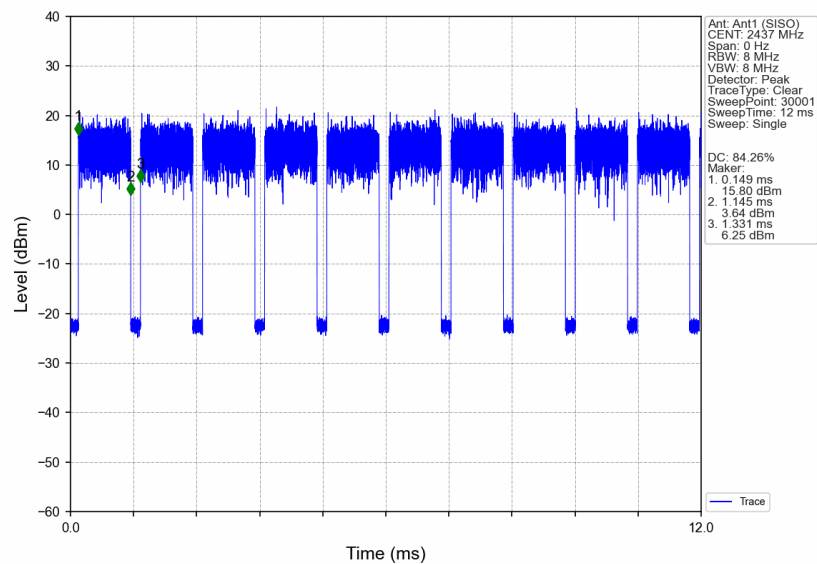
802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



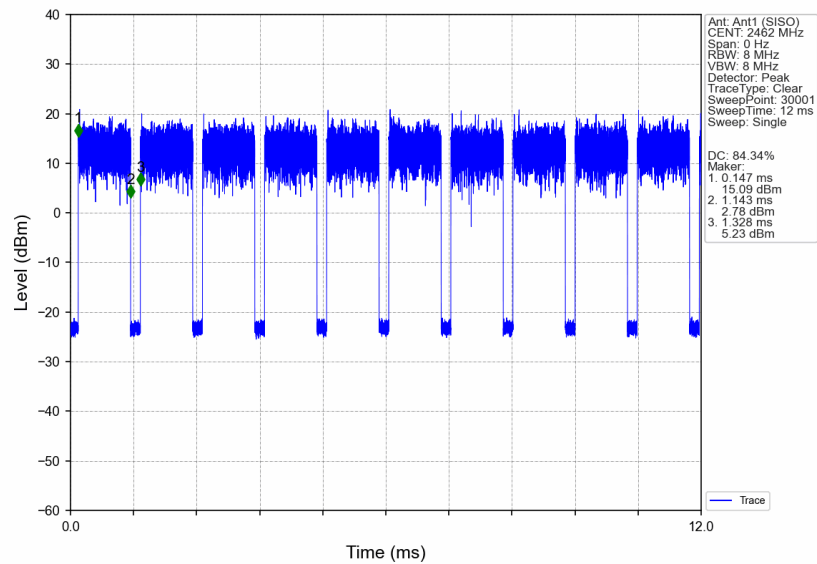
802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_Ant1 (SISO)\_NTNV



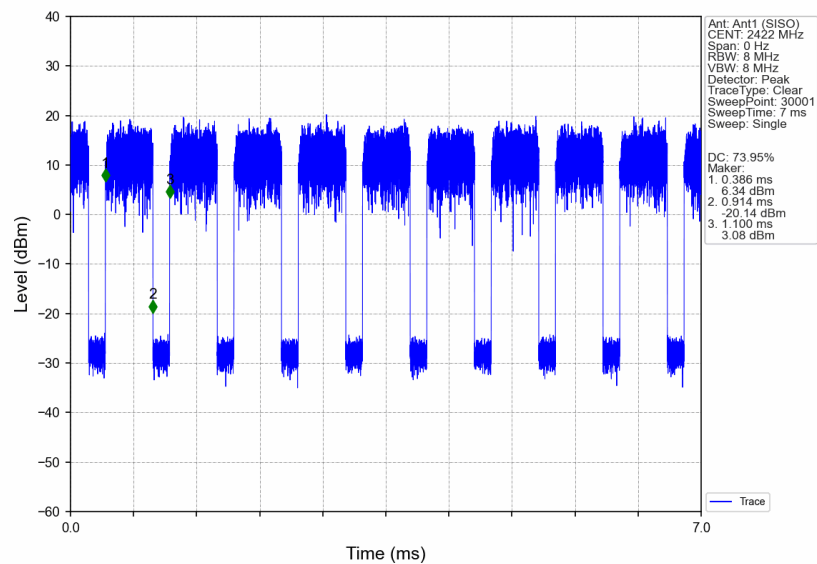
802.11ax(HEW20)\_MCH\_2437MHz\_RU242\_Left\_Ant1 (SISO)\_NTNV



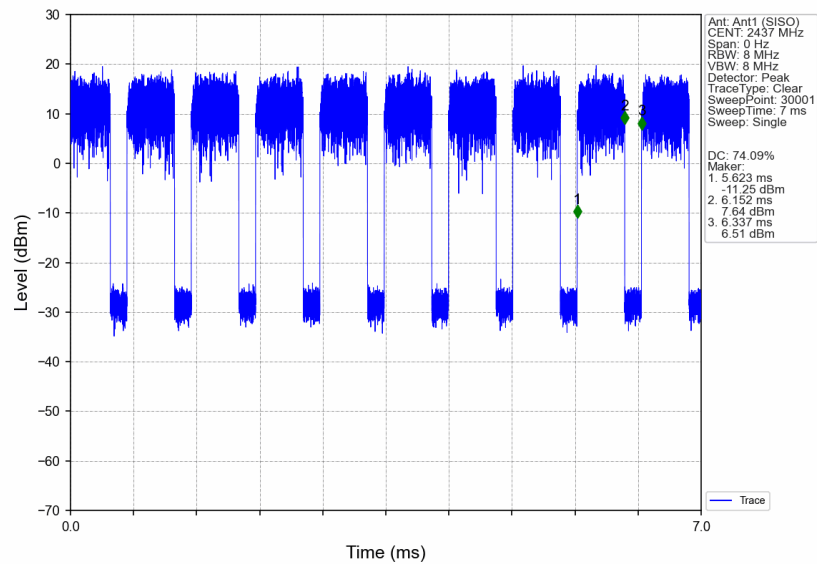
802.11ax(HEW20)\_HCH\_2462MHz\_RU242\_Left\_Ant1 (SISO)\_NTNV



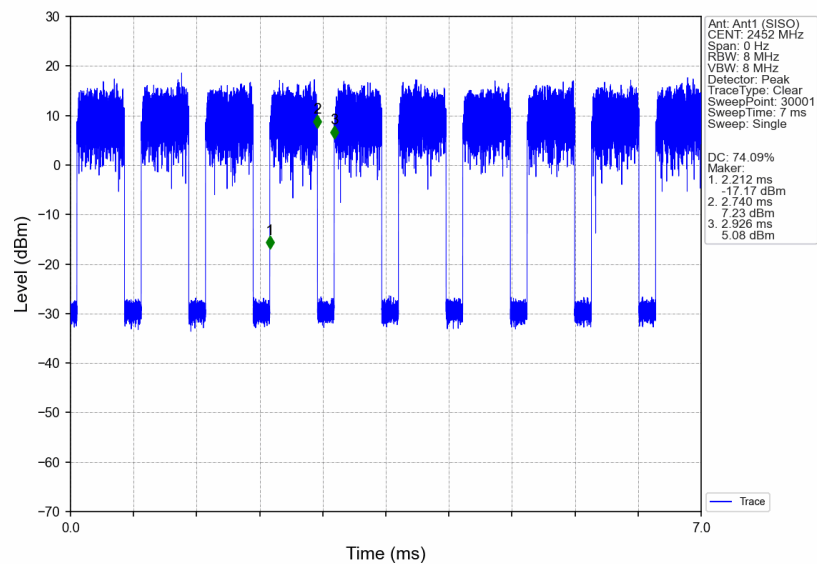
802.11ax(HEW40)\_LCH\_2422MHz\_RU484\_Left\_Ant1 (SISO)\_NTNV



802.11ax(HEW40)\_MCH\_2437MHz\_RU484\_Left\_Ant1 (SISO)\_NTNV



802.11ax(HEW40)\_HCH\_2452MHz\_RU484\_Left\_Ant1 (SISO)\_NTNV





## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

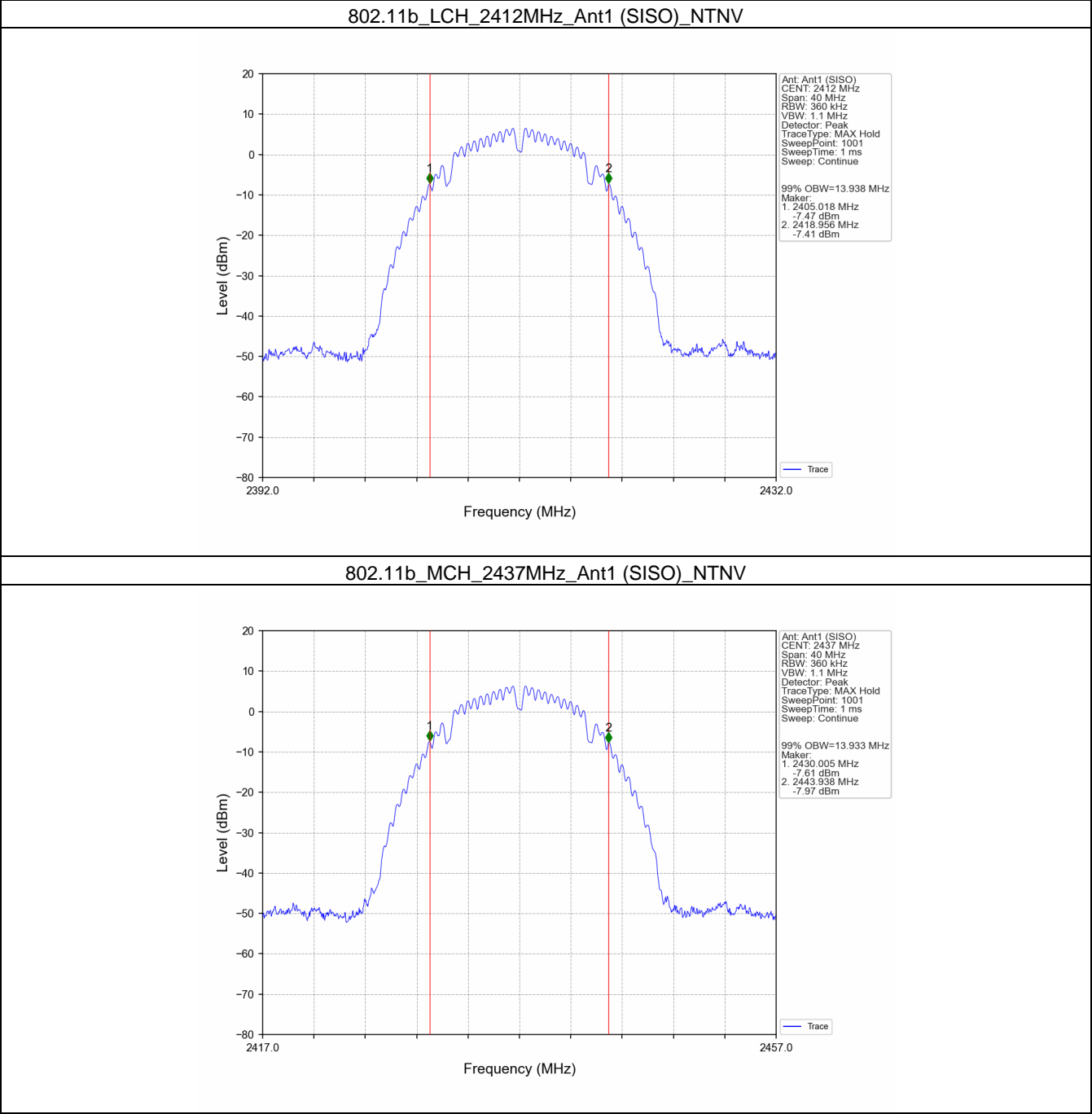
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	13.938	/	Pass
		2437	/	/	1	13.933	/	Pass
		2462	/	/	1	13.928	/	Pass
802.11g	SISO	2412	/	/	1	16.487	/	Pass
		2437	/	/	1	16.471	/	Pass
		2462	/	/	1	16.491	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.376	/	Pass
		2437	/	/	1	17.395	/	Pass
		2462	/	/	1	17.410	/	Pass
802.11n (HT40)	SISO	2422	/	/	1	35.455	/	Pass
		2437	/	/	1	35.577	/	Pass
		2452	/	/	1	35.530	/	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	1	18.203	/	Pass
		2437	RU242	Left	1	18.155	/	Pass
		2462	RU242	Left	1	18.141	/	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	1	36.705	/	Pass
		2437	RU484	Left	1	36.824	/	Pass
		2452	RU484	Left	1	39.052	/	Pass

#### 2.1.2 6dB BW

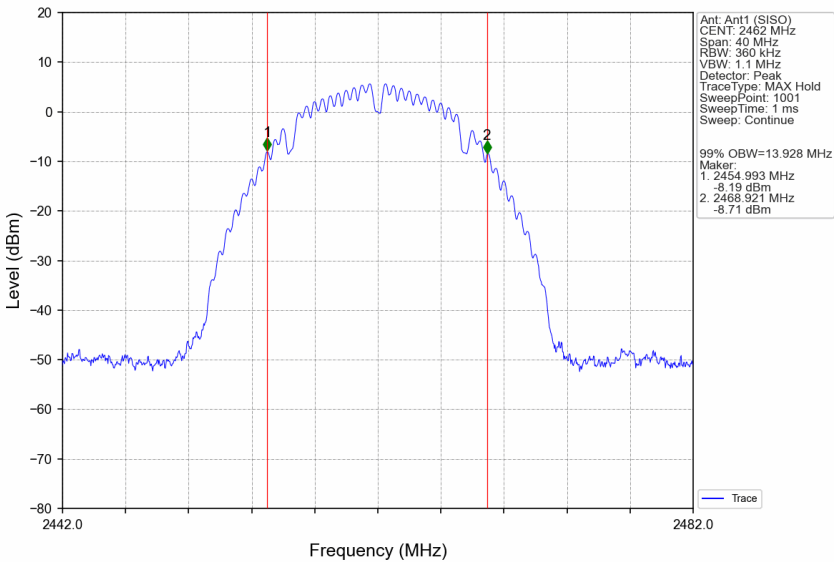
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	9.109	$\geq 0.5$	Pass
		2437	/	/	1	9.115	$\geq 0.5$	Pass
		2462	/	/	1	10.058	$\geq 0.5$	Pass
802.11g	SISO	2412	/	/	1	13.840	$\geq 0.5$	Pass
		2437	/	/	1	13.845	$\geq 0.5$	Pass
		2462	/	/	1	13.852	$\geq 0.5$	Pass
802.11n (HT20)	SISO	2412	/	/	1	12.671	$\geq 0.5$	Pass
		2437	/	/	1	13.845	$\geq 0.5$	Pass
		2462	/	/	1	13.848	$\geq 0.5$	Pass
802.11n (HT40)	SISO	2422	/	/	1	31.351	$\geq 0.5$	Pass
		2437	/	/	1	31.349	$\geq 0.5$	Pass
		2452	/	/	1	31.353	$\geq 0.5$	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	1	12.670	$\geq 0.5$	Pass
		2437	RU242	Left	1	15.031	$\geq 0.5$	Pass
		2462	RU242	Left	1	13.853	$\geq 0.5$	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	1	31.350	$\geq 0.5$	Pass
		2437	RU484	Left	1	31.352	$\geq 0.5$	Pass
		2452	RU484	Left	1	36.086	$\geq 0.5$	Pass

### 2.2 Test Graph

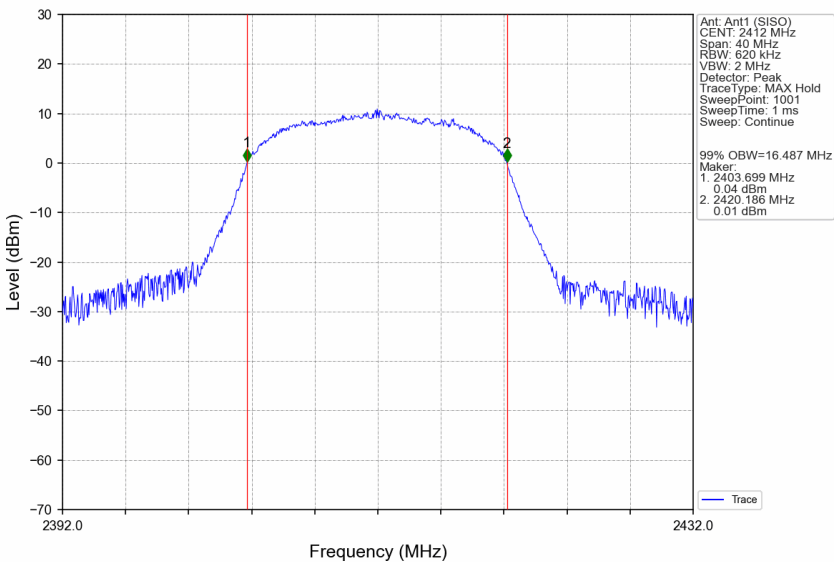
#### 2.2.1 OBW



802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



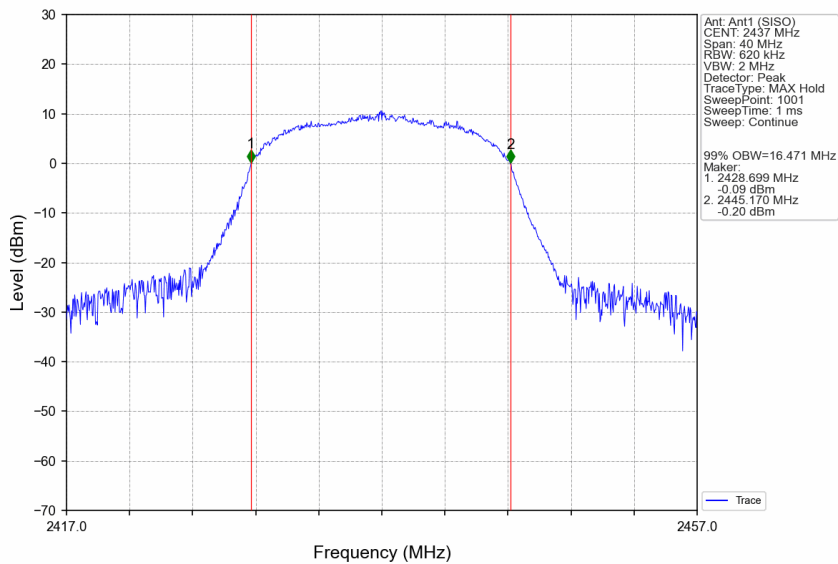
## Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

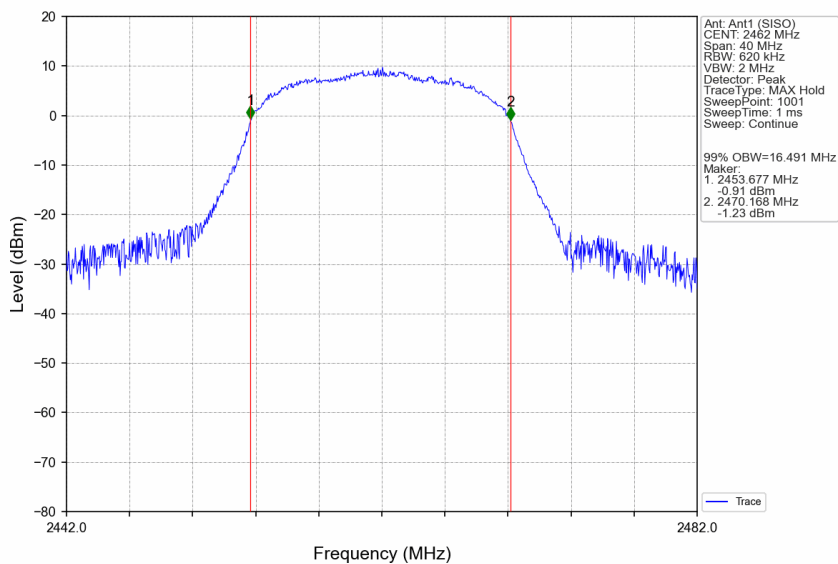
Report No.: KSCR240800151501

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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



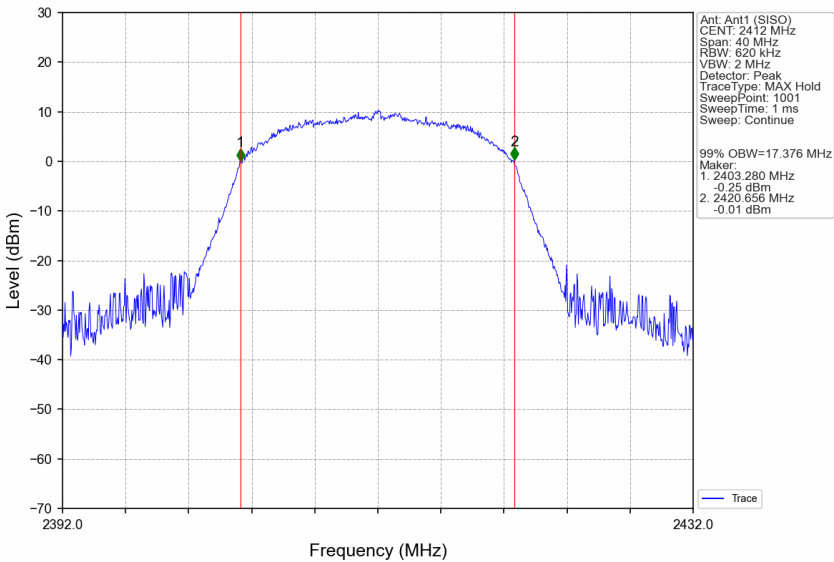
## Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

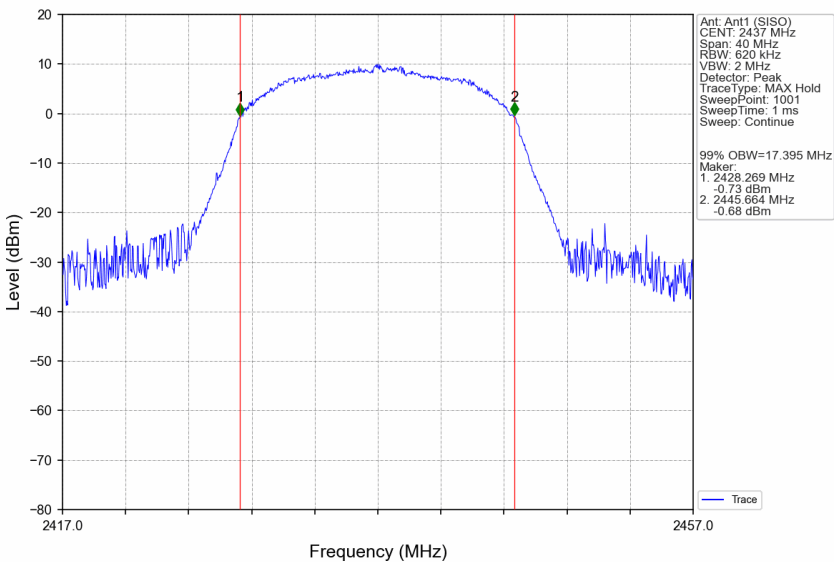
Report No.: KSCR240800151501

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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



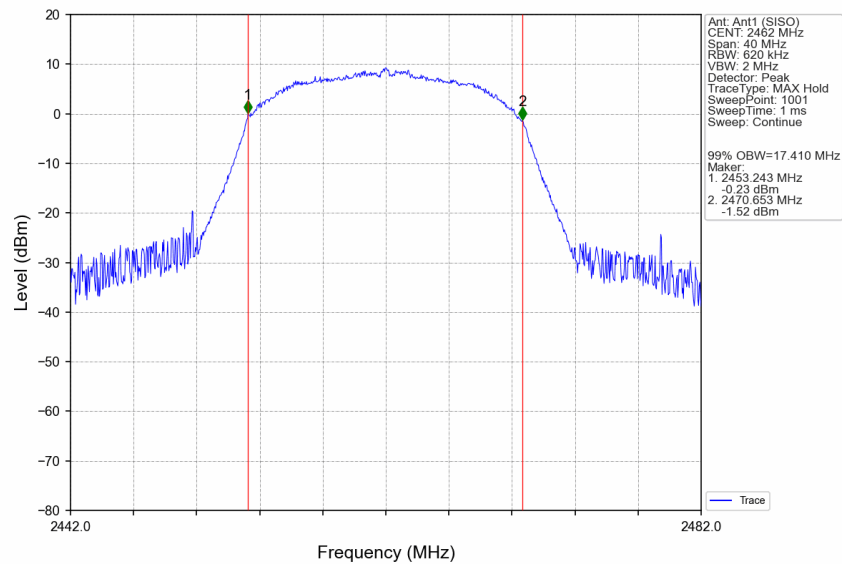
## Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

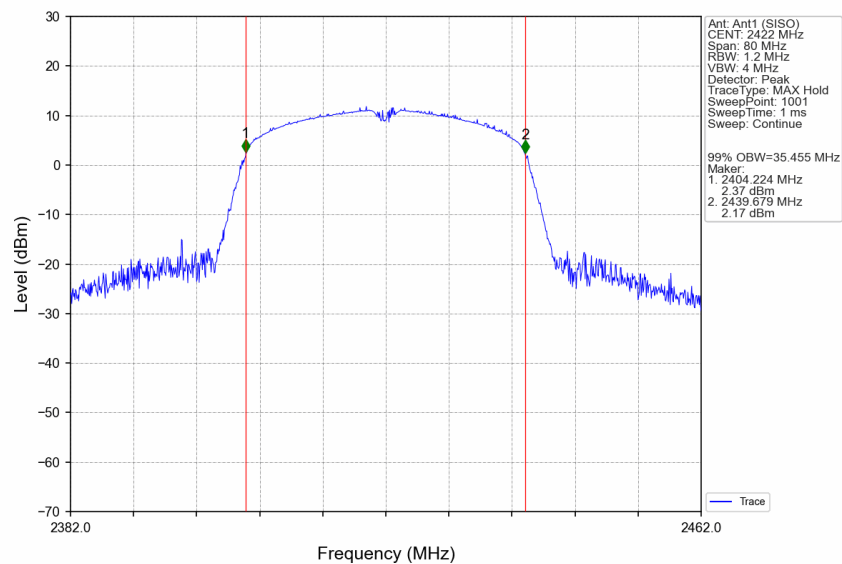
Report No.: KSCR240800151501

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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



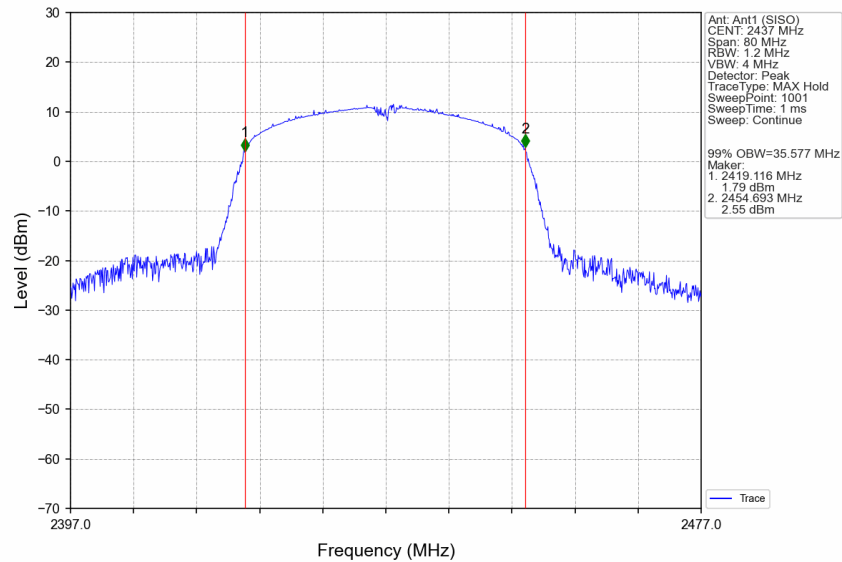
## Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

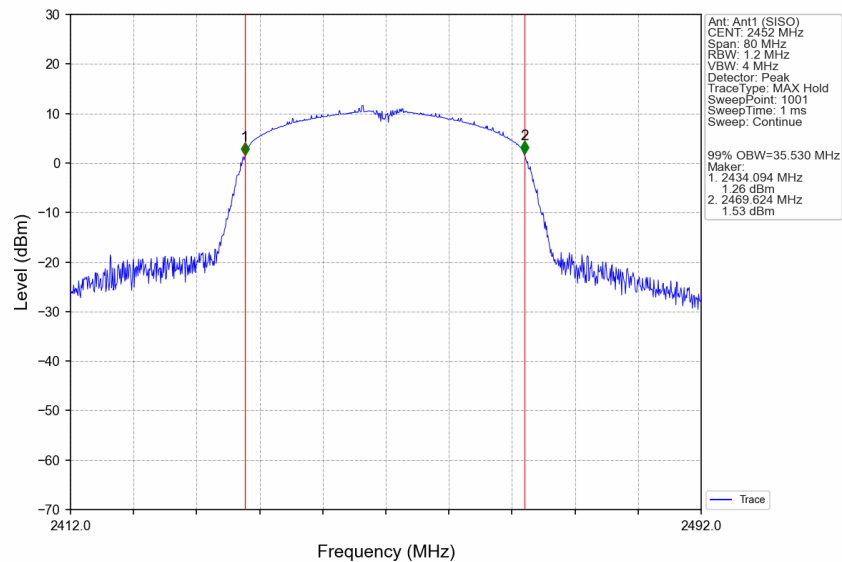
Report No.: KSCR240800151501

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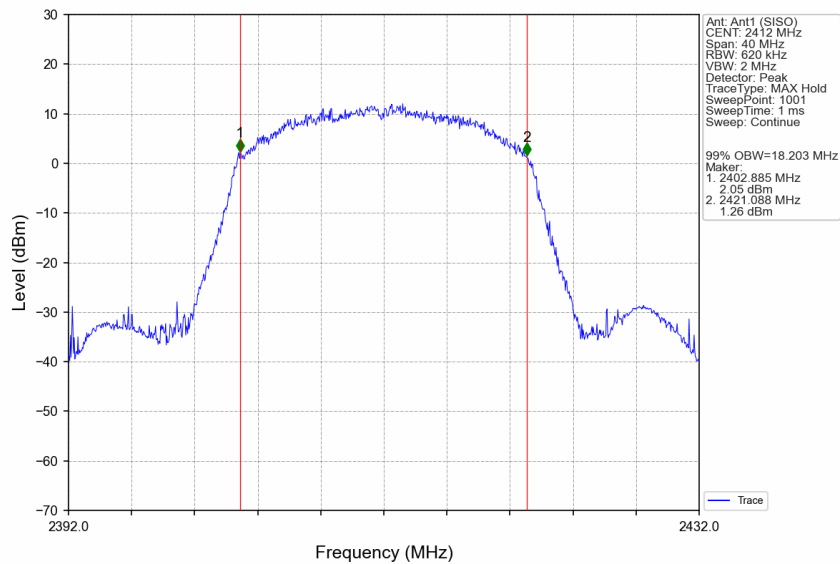
802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



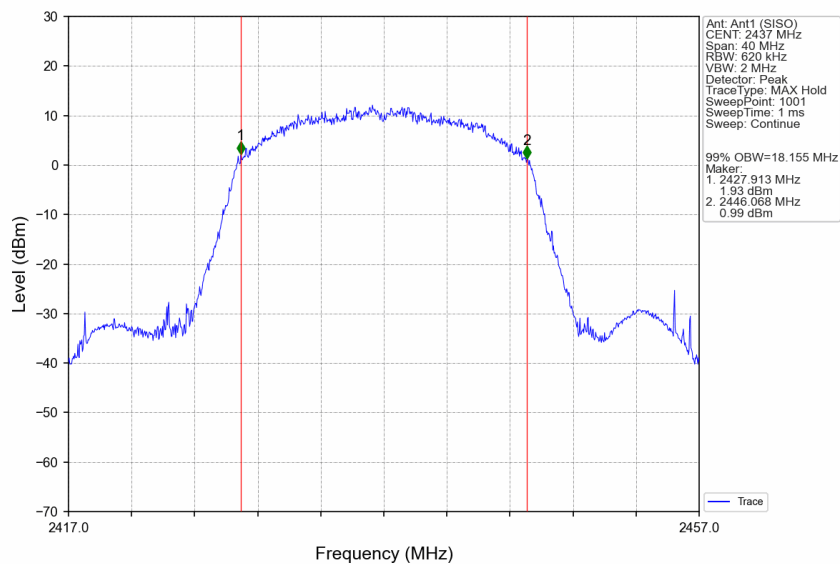
802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_Ant1 (SISO)\_NTNV

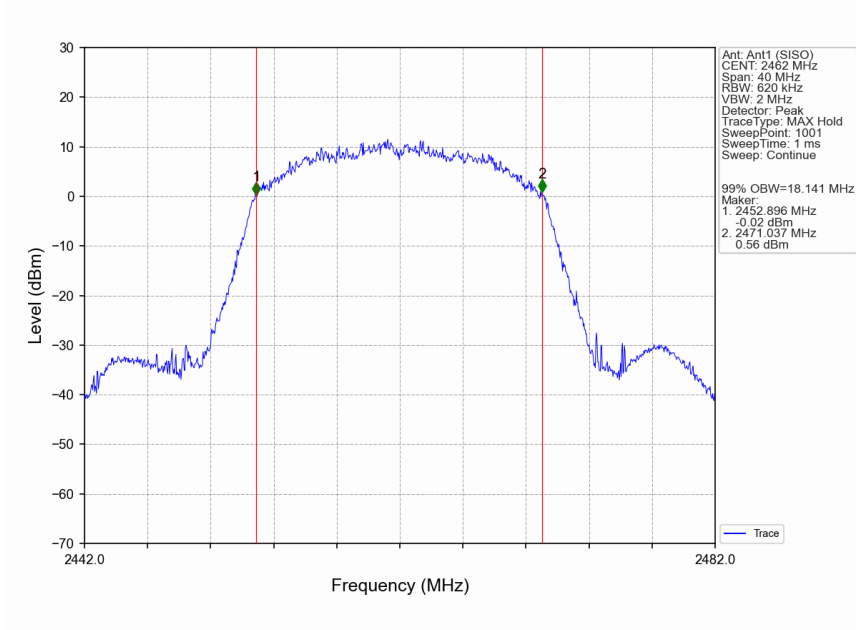


802.11ax(HEW20)\_MCH\_2437MHz\_RU242\_Left\_Ant1 (SISO)\_NTNV

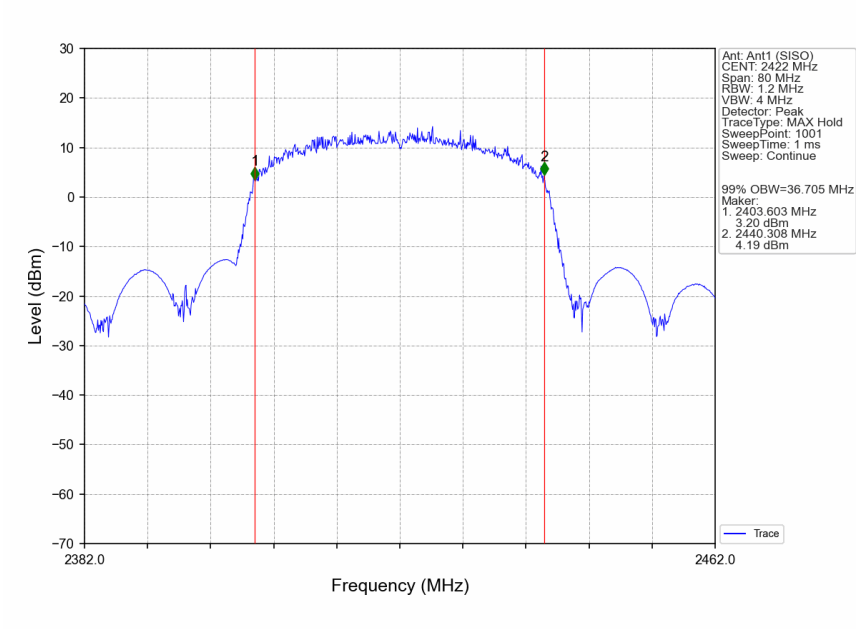




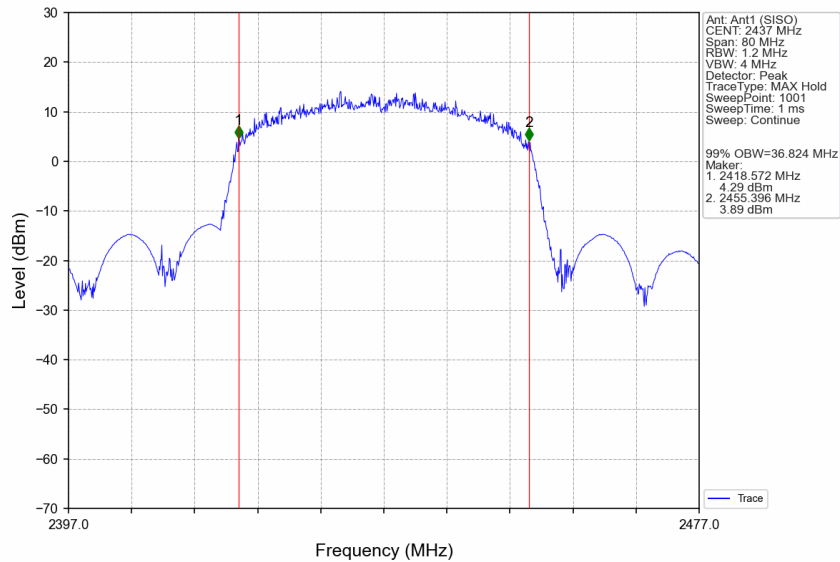
802.11ax(HEW20)\_HCH\_2462MHz\_RU242\_Left\_Ant1 (SISO)\_NTNV



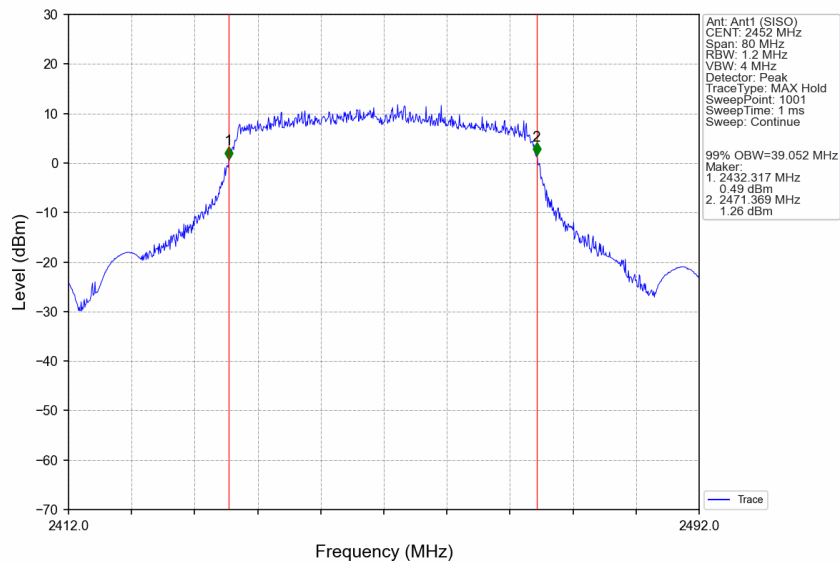
802.11ax(HEW40)\_LCH\_2422MHz\_RU484\_Left\_Ant1 (SISO)\_NTNV



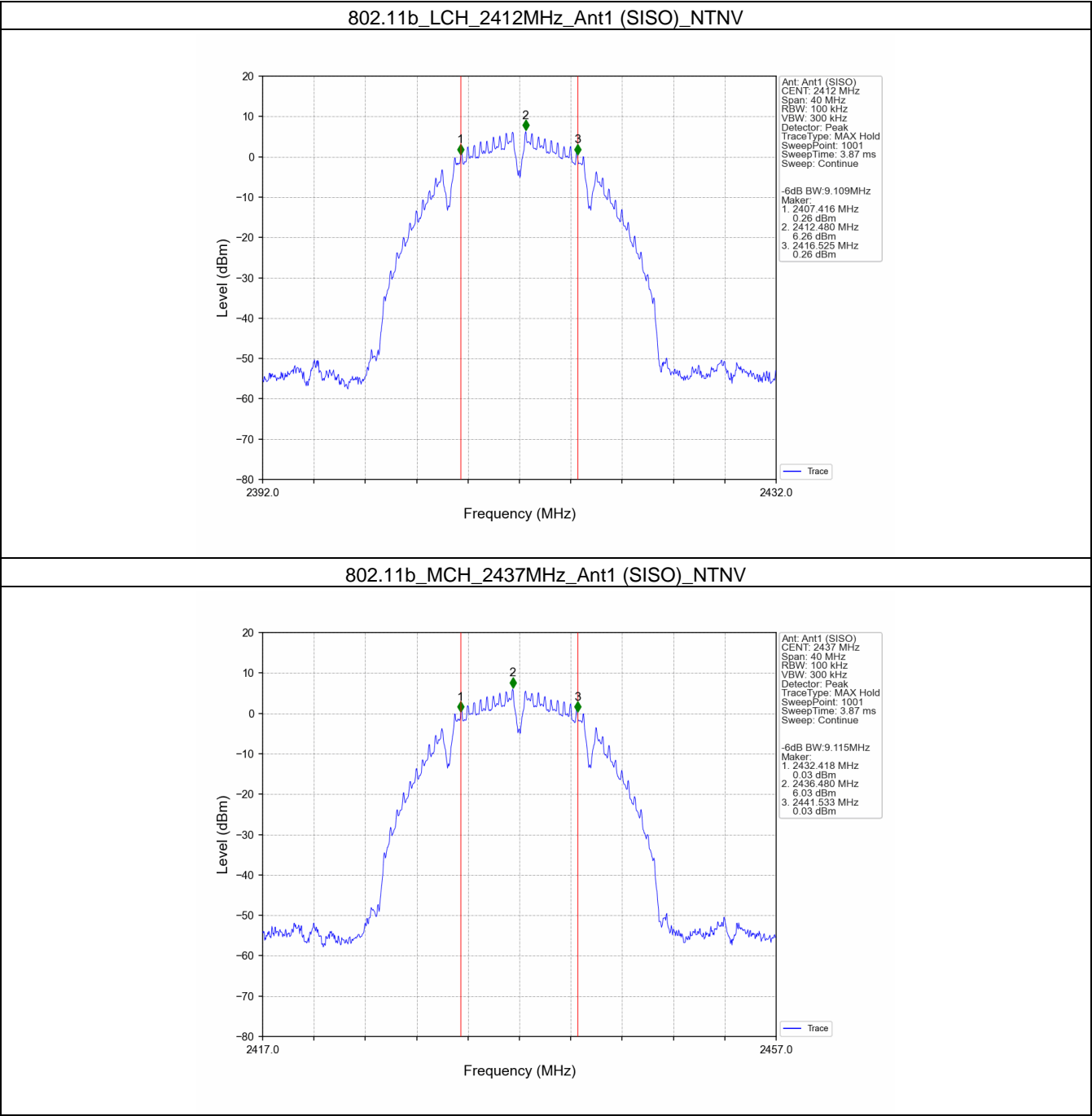
802.11ax(HEW40)\_MCH\_2437MHz\_RU484\_Left\_Ant1 (SISO)\_NTNV



802.11ax(HEW40)\_HCH\_2452MHz\_RU484\_Left\_Ant1 (SISO)\_NTNV



### 2.2.2 6dB BW



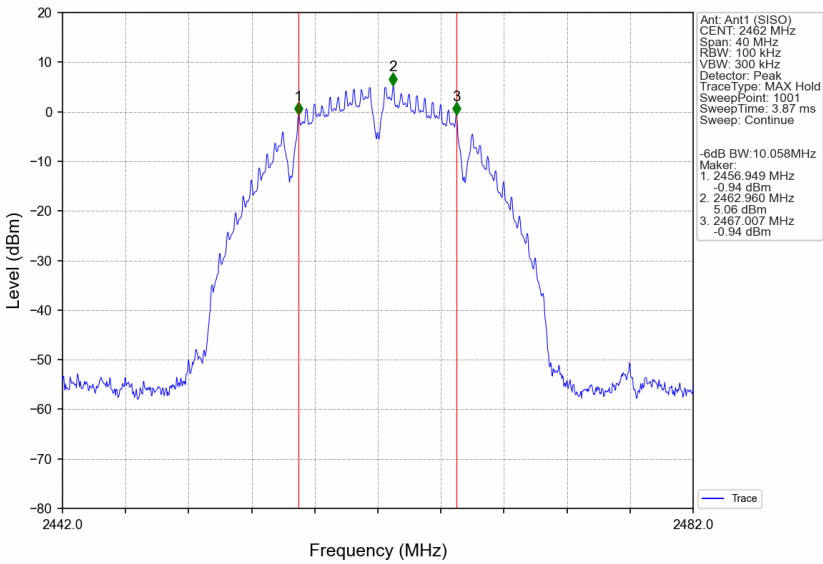
## Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

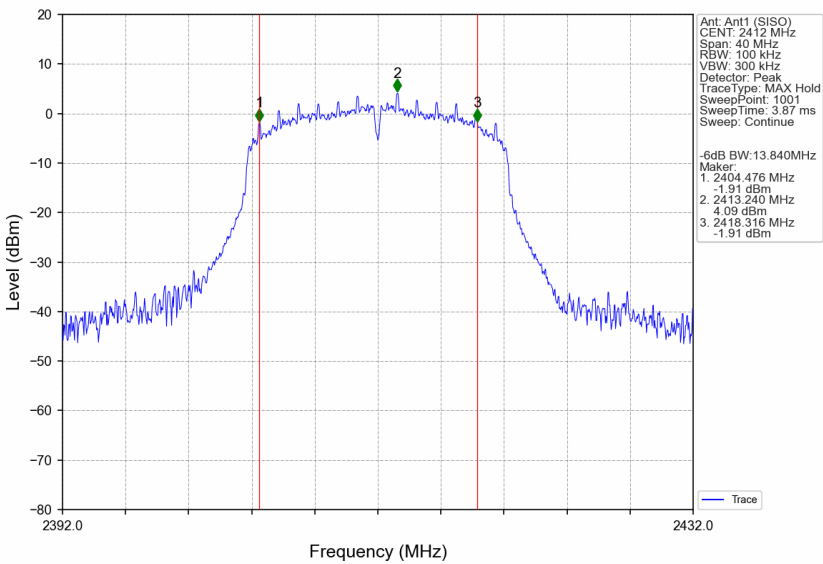
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



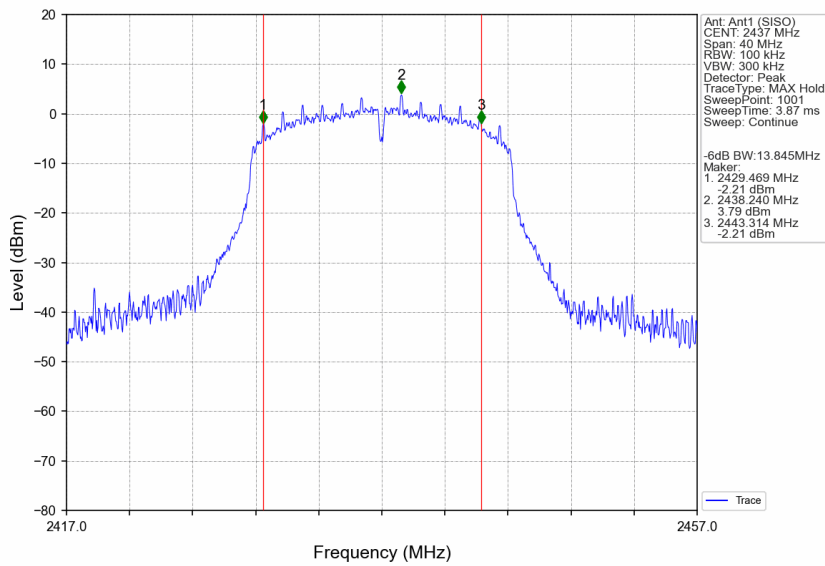
## Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

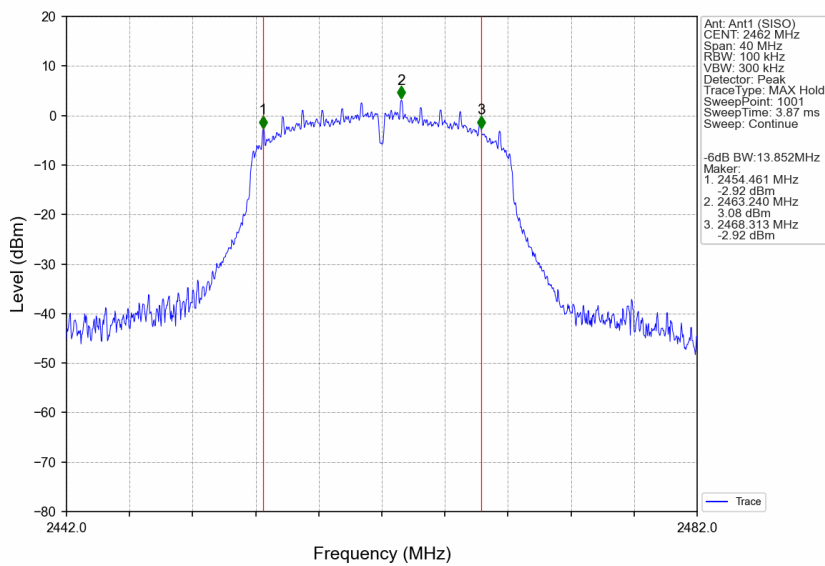
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



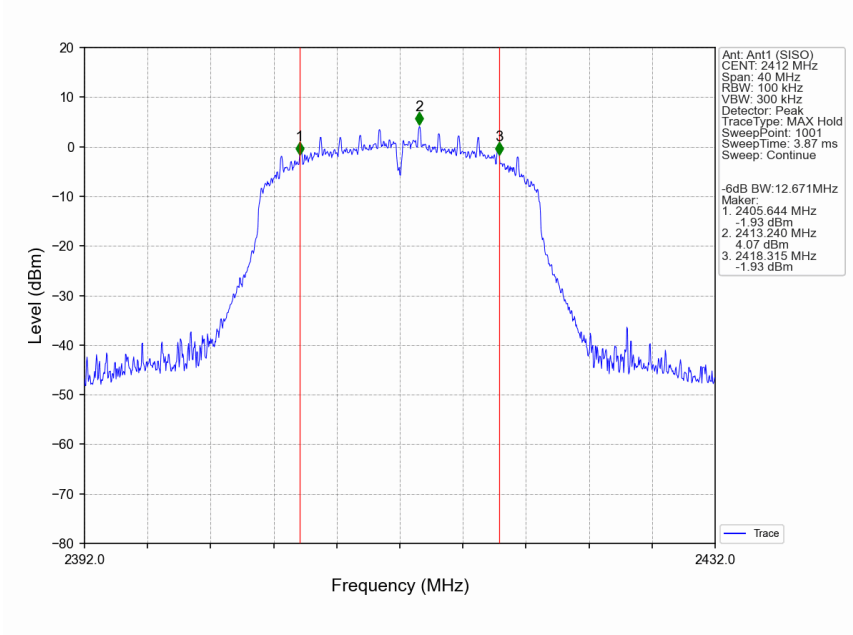
## Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

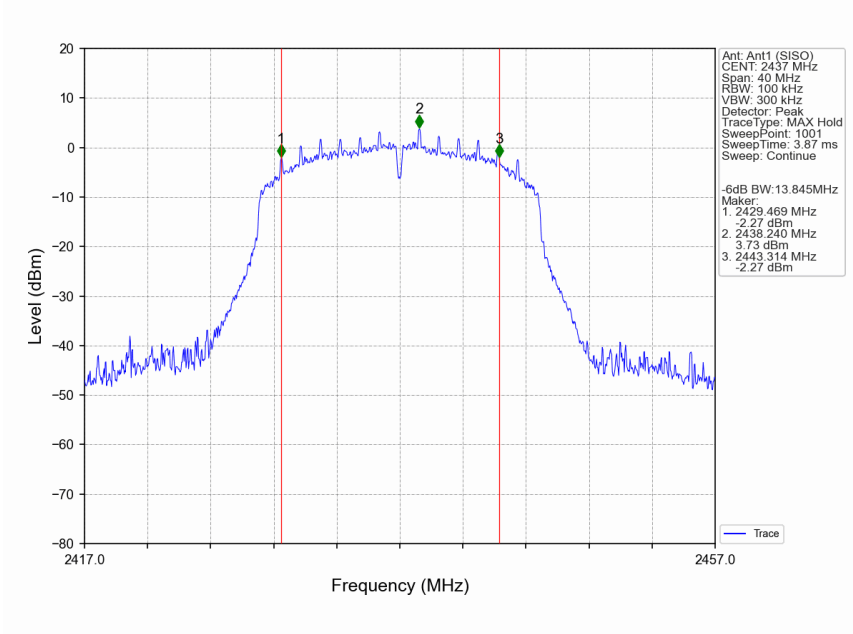
Report No.: KSCR240800151501

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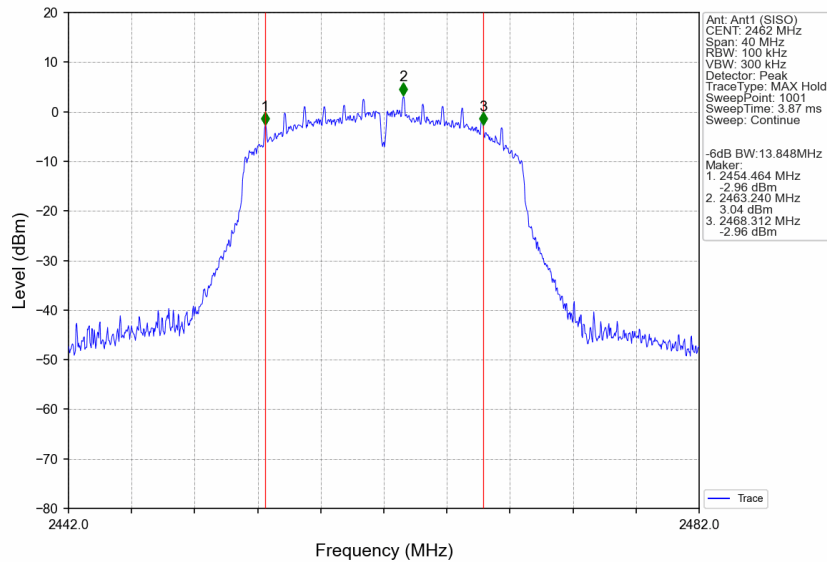
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



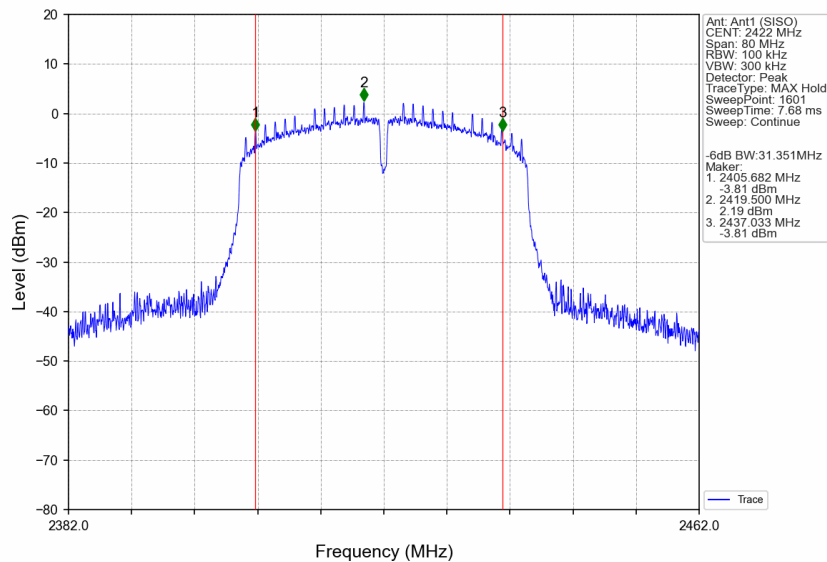
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



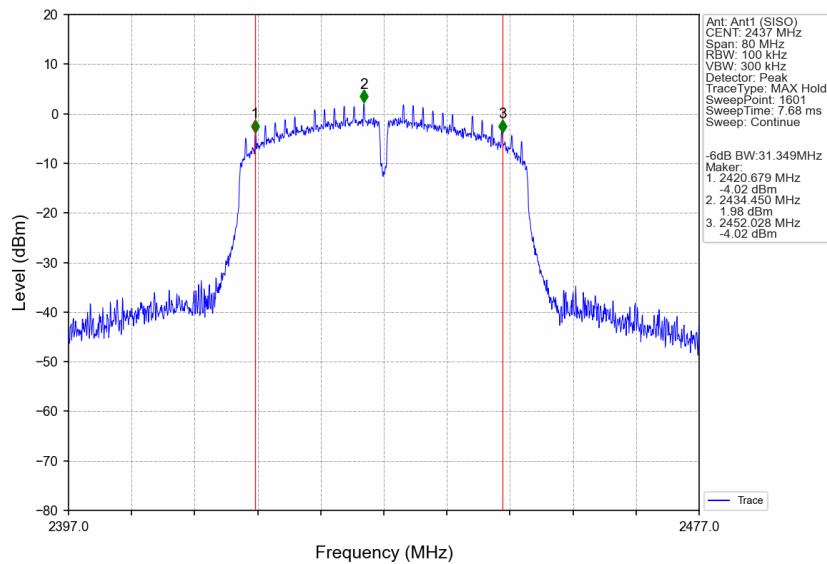
## Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

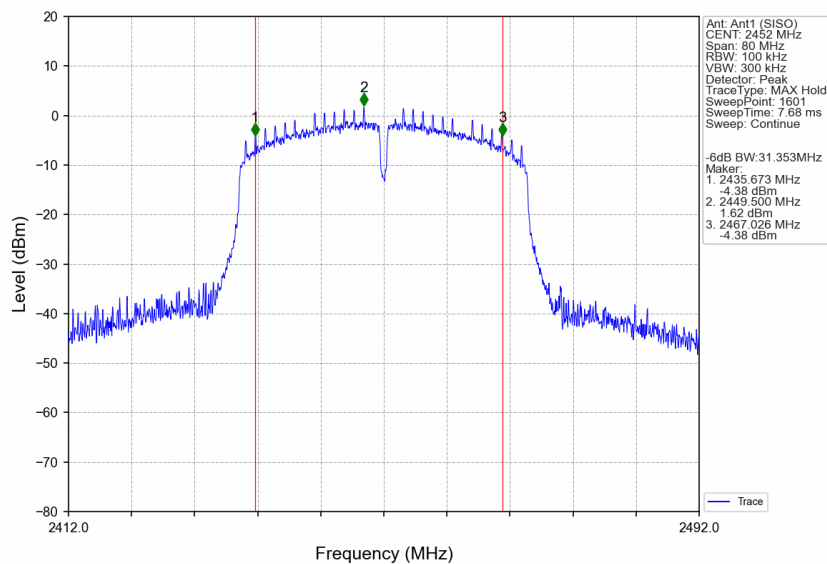
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

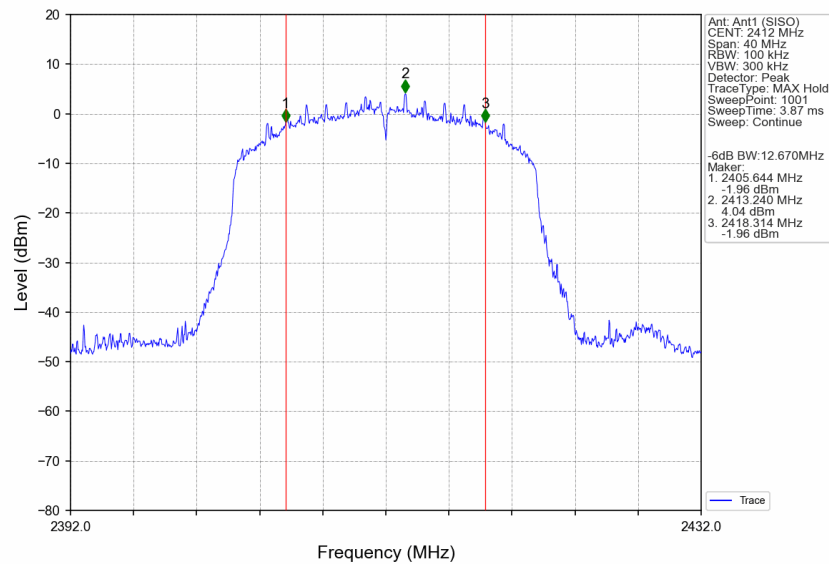


802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV

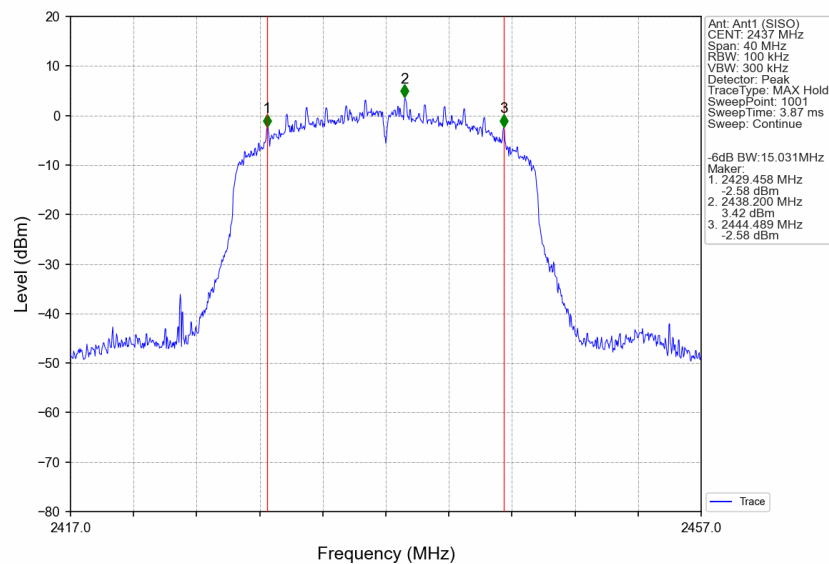




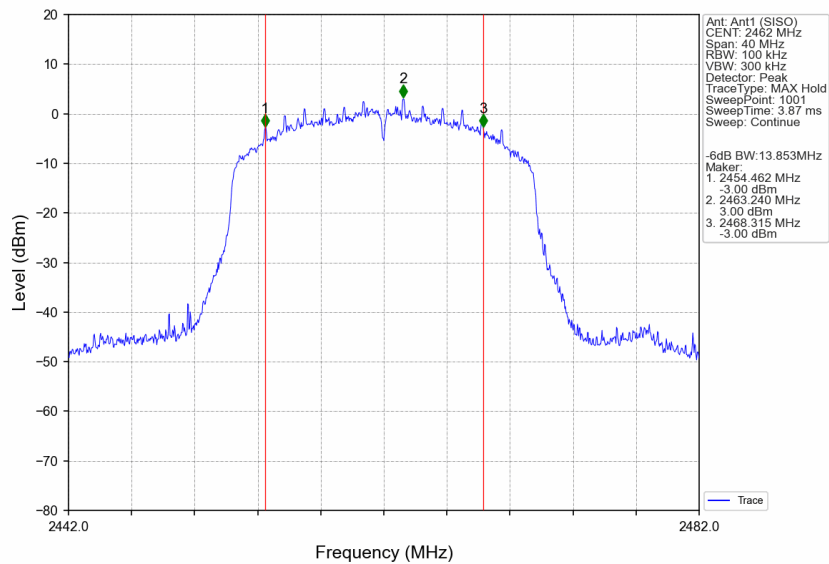
802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_Ant1 (SISO)\_NTNV



802.11ax(HEW20)\_MCH\_2437MHz\_RU242\_Left\_Ant1 (SISO)\_NTNV



802.11ax(HEW20)\_HCH\_2462MHz\_RU242\_Left\_Ant1 (SISO)\_NTNV



802.11ax(HEW40)\_LCH\_2422MHz\_RU484\_Left\_Ant1 (SISO)\_NTNV

