

FCC/ISED - TEST REPORT

Report Number : **6895025126901** Date of Issue: **2025-08-26**

Model/HVIN : **A1783**

Product Type : **Anker SOLIX C2000 Gen 2 Portable Power Station**

Applicant : **Anker Innovations Limited**

Address : **Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road,**
Central and Western District, HONG KONG

Manufacturer : **Anker Innovations Limited**
Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road,

Address : **Central and Western District, HONG KONG**

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including Appendices : **84**

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1 Table of Contents

1	Table of Contents	2
2	Details about the Test Laboratory	3
3	Description of the Equipment Under Test.....	4
4	Summary of Test Standards	5
5	Summary of Test Results	6
6	General Remarks	7
7	Test Setups	8
8	Systems Test Configuration.....	10
9	Technical Requirement.....	11
9.1	Conducted Emission	11
9.2	Conducted Output Power	14
9.3	6dB Bandwidth	16
9.4	Power Spectral Density	31
9.5	Spurious RF Conducted Emissions	39
9.6	Band Edge Testing	57
9.7	Spurious Radiated Emissions for Transmitter	63
10	Test Equipment List	82
11	System Measurement Uncertainty.....	84

2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou,
Nanshan District, Shenzhen City, 518052, P. R. China

Telephone: 86 755 8828 6998

Fax: 86 755 828 5299

FCC Registration No.: 514049

FCC Designation No.: CN5009

IC Registration No.: 10320A

ISED CAB identifier: CN0077

3 Description of the Equipment Under Test

Product:	Anker SOLIX C2000 Gen 2 Portable Power Station
Model no.:	A1783
FCC ID:	2AOKB-A1783
IC:	23451-A1783
PMN:	Anker SOLIX C2000 Gen 2 Portable Power Station
HVIN:	A1783
FVIN:	V1.0
Rating:	See below label for details
RF Transmission Frequency:	2412MHz-2462MHz for 802.11b/g/n20/n40
No. of Operated Channel:	11 for 802.11b/g/n20 7 for 802.11n40
Modulation:	802.11b: BPSK, QPSK, CCK, 802.11g/802.11n20/802.11n40: BPSK, QPSK, 16-QAM, 64-QAM
Antenna Type:	FPC Antenna
Antenna Gain:	3.53dBi
Description of the EUT:	The Equipment Under Test (EUT) is an Anker SOLIX C2000 Gen 2 Portable Power Station supports Bluetooth Low Energy / Wi-Fi functions
Remark:	1) This report is only for 2.4GHz Wi-Fi. 2) For conducted Emission test, 120VAC/60Hz input was evaluated. 3) For RF test, all the tests were evaluated powered by internal rated battery 51.2VDC.
Label:	

Anker SOLIX C2000 Gen 2 Portable Power Station
 Model: A1783 Rated Battery Capacity: 51.2Vdc/40000mAh/2048Wh
 AC Input: Power (Charging): 120V~15A Max, (3-hours), 1800W Max, 12A (continuous), 60Hz, L+N+PE
 AC Input/Output Port (Bypass Mode): 120V~15A Max, 1800W Max, 60Hz, (<3 hours when current exceeds 12A), L+N+PE
 XT-60 Input: 11V-28V~8.2A, 28V~60V~17A Max, (800W Max)
 Car Charger Output: 12V~10A
 USB-A1 Output: 5V~2.4A (12W Max)
 USB-C1 Output: 5V~3A (15W Max)
 USB-C2 Output: 5V~3A / 9V~3A / 12V~3A / 15V~3A / 20V~5A / 28V~5A (140W Max)
 USB-C1 Output: 5V~3A / 9V~3A / 12V~3A / 15V~3A / 20V~5A / 28V~5A (140W Max)
 USB-A1 and USB-C3 total output: 5V~4A (20W Max)
 AC Output (Inverter Mode): 120V~20A, 60Hz, 2400W Max, L+N+PE
 AC Output (TT-30): 120V~20A Max, 60Hz, 2400W Max
 AC output power (total): 2400W Max
 Expansion Battery Port: 58A Vdc, Max, 58A Max, 77A Max
 Discharging Temperature: -7F to 104F / -20°C to 40°C
 Charging Temperature: 32°F to 104°F / 0°C to 40°C
 For use with Anker SOLIX C2000 Portable Power Station Expansion Battery (2048Wh) and Anker SOLIX F3000 Portable Power Station Expansion Battery (3072Wh) only
 FCC ID: 2AOKB-A1783 CAN ICES(B)/NMB(B) IC: 23451-A1783
 Anker Innovations Limited I Made in China
 Unit 55, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong
 FCC statement: The device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interferences received, including interference that may cause undesired operation.

WARNING - Do not overcharge the internal battery. See Instruction Manual. Do not smoke, strike a match, or cause a spark in the vicinity of the power pack. Only charge the internal battery in a well ventilated area.
WARNING - Risk of Electric Shock and Risk of Fire. Install in a temperature and humidity controlled indoor area relatively free of conductive contaminants. This device contains energy higher than 1 kWh, suitable for use in residential Non-Habitable spaces.
CAUTION - Risk of Injury To Persons. Do not use this product if the power cord or the battery cables are damaged in any way.
CAUTION - This device is not intended for use in a commercial repair facility.
CAUTION - Risk of Electric Shock. Connect only to properly grounded outlets.
DANGER - This device is not waterproof. Use indoors if it is raining or the ground is wet outside.
AVERTISSEMENT - Ne pas surcharger la batterie interne. Consulter le manuel d'utilisation. Il ne faut pas fumer, allumer une allumette ou produire des étincelles à proximité du bloc d'alimentation. Charger la batterie uniquement dans un endroit bien aéré.
AVERTISSEMENT - Risque de choc électrique et risque d'incendie. Installer dans une zone intérieure contrôlée par la température et l'humidité relativement exempte de contaminants conducteurs. Cet appareil contient une énergie supérieure à 1 kWh. Convient pour une utilisation dans des espaces résidentiels non habitables.
MISE EN GARDE - Risque de blessure aux personnes. Ne pas utiliser ce produit si le cordon d'alimentation ou les câbles de batterie sont endommagés de quelque façon.
MISE EN GARDE - Le dispositif n'est pas destiné à être utilisé dans un atelier de réparation commercial.
MISE EN GARDE - Risque de décharge électrique. Brancher l'unité uniquement à des prises de courant correctement mises à la masse.
DANGER - Cet appareil n'est pas étanche. Utilisez-le à l'intérieur s'il pleut ou si le sol est humide à l'extérieur.

ALWAYS HERE TO HELP
<https://support.anker.com>
 support@anker.com
 support.me@anker.com
 CED-CN@anker.com
 le.support@anker.com

(US/CA) +1 (800) 988-5541 English only
 (État-Uni/Canada) +1 (800) 988-5541 Anglais seulement
 (UK) +44 (0) 1616 056 301
 (DE) +49 (800) 000 2522
 (日本) +81 03 4455 7823

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4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2024 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators
RSS-Gen Issue 5 April 2018 Amendment 1 March 2019 + Amendment 2 February 2021	General Requirements for Compliance of Radio Apparatus
RSS-247 Issue 3 August 2023	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and License-Exempt Local Area Network (LE- LAN) Devices

All the test methods were according to KDB 558074 D01 15.247 Meas Guidance v05r02 Measurement Guidance and ANSI C63.10-2020.

5 Summary of Test Results

Technical Requirements			
FCC Part 15 Subpart C/ RSS-247 Issue 3/RSS-Gen Issue 5			
Test Condition		Test Site	Test Result
§15.207 & RSS-GEN 8.8	Conducted emission AC power port	Site 1	Pass
§15.247 (b) (3) & RSS-247 5.4(d)	Conducted peak output power	Site 1	Pass
RSS-247 5.4(d)	Equivalent Isotropic Radiated Power	Site 1	Pass
§15.247(a)(2) & RSS-247 5.2(a) & RSS-GEN 6.7	6dB bandwidth and 99% Occupied Bandwidth	Site 1	Pass
§15.247(e) & RSS-247 5.2(b)	Power spectral density	Site 1	Pass
§15.247(d) & RSS-247 5.5	Spurious RF conducted emissions	Site 1	Pass
§15.247(d) & RSS-247 5.5	Band edge	Site 1	Pass
§15.247(d) & §15.209 & §15.205 & RSS-247 5.5 & RSS-Gen 6.13	Spurious radiated emissions for transmitter	Site 1	Pass
§15.203 & RSS-Gen 6.8	Antenna requirement	See note 2	Pass

Note 1: N/A=Not Applicable.

Note 2: The EUT uses an Internal Integrated FPC Antenna, which gain is 3.53dBi. In accordance to §15.203 & RSS-Gen 6.8, it is considered sufficiently to comply with the provisions of this section.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2AOKB-A1783, complies with Section 15.207, 15.209, 15.205, 15.247 of the FCC Part 15, Subpart C.

This submittal(s) (test report) is intended for IC:23451-A1783, complies with RSS-247, RSS-GEN.

The Model: A1783 supports Bluetooth Low Energy/Wi-Fi functions, power by 24VDC.
The TX and RX range is 2402MHz-2480MHz for Bluetooth, 2412MHz – 2462MHz for 2.4GHz Wi-Fi.

This report is for the 2.4GHz Wi-Fi part.

SUMMARY:

All tests according to the regulations cited on page 6 were

■ - Performed

□ - Not Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: 2025-07-15

Testing Start Date: 2025-07-18

Testing End Date: 2025-07-20

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Reviewed by:

Prepared by:

Tested by:



John Zhi
Project Manager



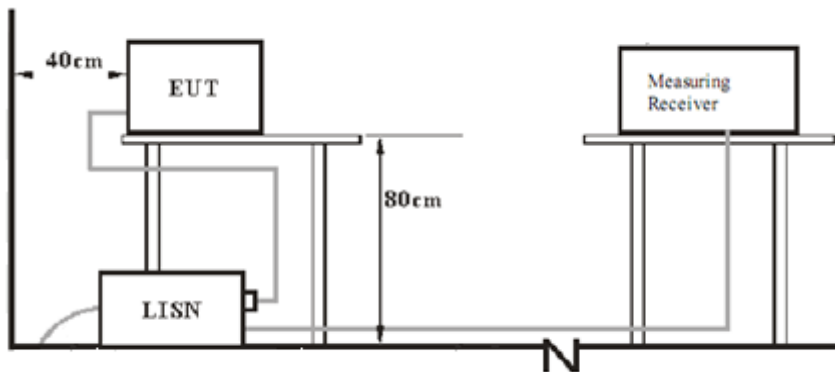
Grace Gao
Project Engineer



Carry Cai
Test Engineer

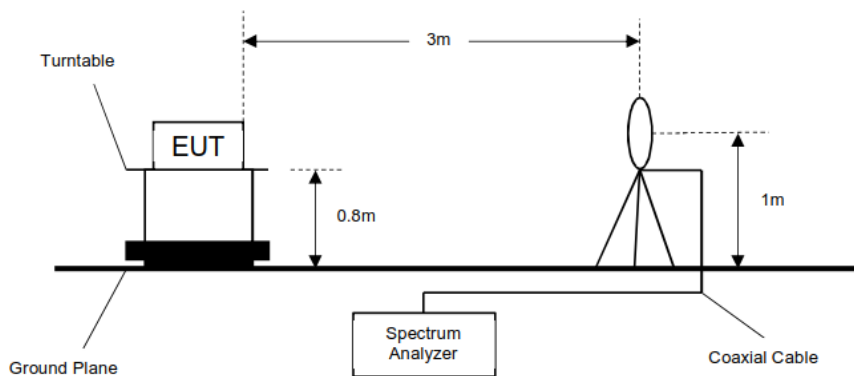
7 Test Setups

7.1 AC Power Line Conducted Emission test setups

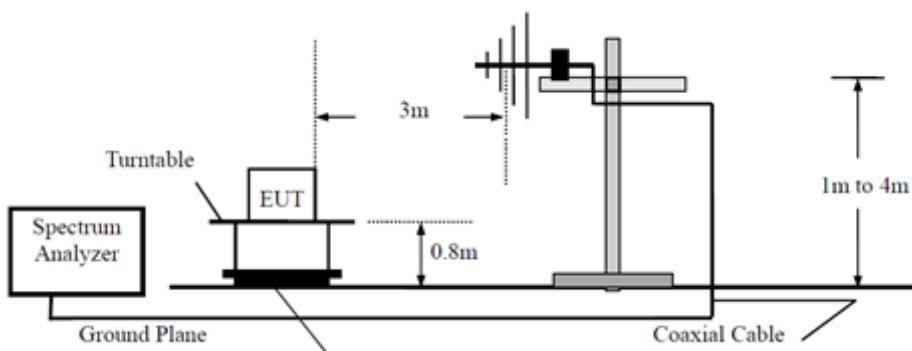


7.2 Radiated test setups

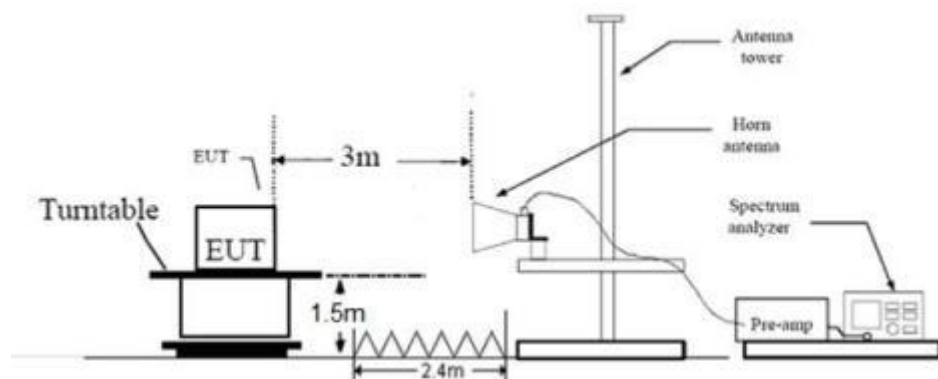
9kHz - 30MHz



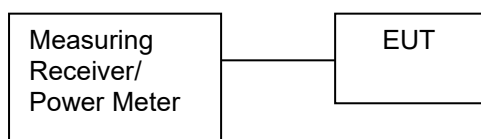
30MHz - 1GHz



Above 1GHz



7.3 Conducted RF test setups



8 Systems Test Configuration

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model NO.	S/N
Laptop	HP Inc	HP ProBook 445 G10	/

Test Channel information:

Test Mode	Channel (MHz)		
802.11b	CH 1: 2412MHz	CH 6: 2437MHz	CH 11: 2462MHz
802.11g	CH 1: 2412MHz	CH 6: 2437MHz	CH 11: 2462MHz
802.11n20	CH 1: 2412MHz	CH 6: 2437MHz	CH 11: 2462MHz
802.11n40	CH 3: 2422MHz	CH 6: 2437MHz	CH 9: 2452MHz

Test software information:

Test Software Version	EspRFTTestTool_v3.6			
Mode	Channel(MHz)	RU Tone	Setting TX Power	Data Rate
11b	2412	/	20	11b 1 Mbps
	2437	/	20	
	2462	/	20	
11g	2412	/	15	11g 6 Mbps
	2437	/	15	
	2462	/	15	
11n HT20	2412	/	15	MCS0 6.5 Mbps
	2437	/	15	
	2462	/	15	
11n HT40	2422	/	15	MCS0 13.5 Mbps (40MHz)
	2437	/	15	
	2452	/	15	

9 Technical Requirement

9.1 Conducted Emission

Test Method

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. Both sides of AC line were checked for maximum conducted interference.
6. The frequency range from 150 kHz to 30 MHz was searched.
7. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

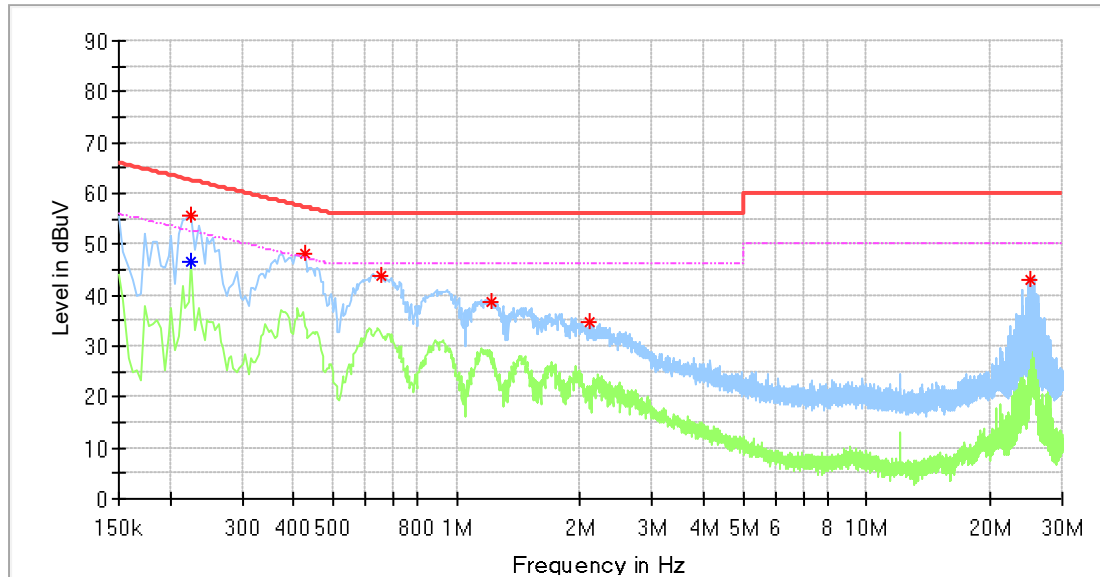
Limit

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

Conducted Emission

Product Type : Anker SOLIX C2000 Gen 2 Portable Power Station
 M/N : A1783
 Operating Condition : Transmitting
 Test Specification : Line
 Comment : AC 120V/60Hz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.226000	---	46.41	52.60	6.18	L1	10.01
0.226000	55.67	---	62.60	6.92	L1	10.01
0.426000	48.12	---	57.33	9.21	L1	10.03
0.654000	43.79	---	56.00	12.21	L1	10.05
1.214000	38.85	---	56.00	17.15	L1	10.05
2.114000	34.57	---	56.00	21.43	L1	10.05
24.990000	43.01	---	60.00	16.99	L1	10.87

Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---	---	---

Remark:

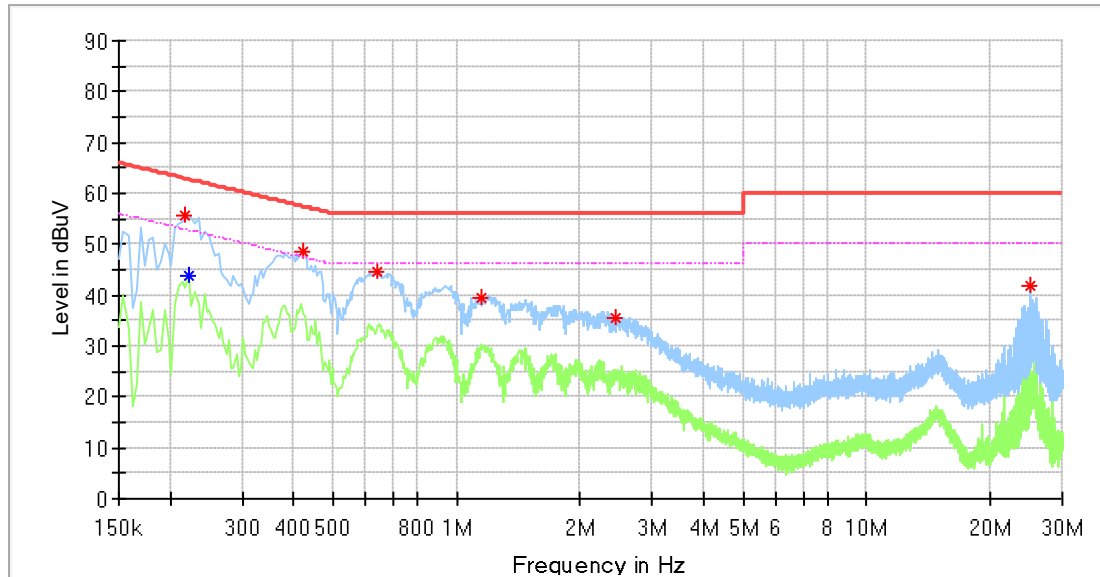
Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

Conducted Emission

Product Type : Anker SOLIX C2000 Gen 2 Portable Power Station
 M/N : A1783
 Operating Condition : Transmitting
 Test Specification : Neutral
 Comment : AC 120V/60Hz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.218000	55.85	---	62.89	7.05	N	10.07
0.222000	---	44.01	52.74	8.73	N	10.07
0.422000	48.41	---	57.41	9.00	N	10.05
0.638000	44.47	---	56.00	11.53	N	10.05
1.150000	39.60	---	56.00	16.40	N	10.06
2.446000	35.36	---	56.00	20.64	N	10.10
25.006000	41.75	---	60.00	18.25	N	11.00

Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
---	---	---	---	---	---	---

Remark:

Level=Reading Level + Correction Factor

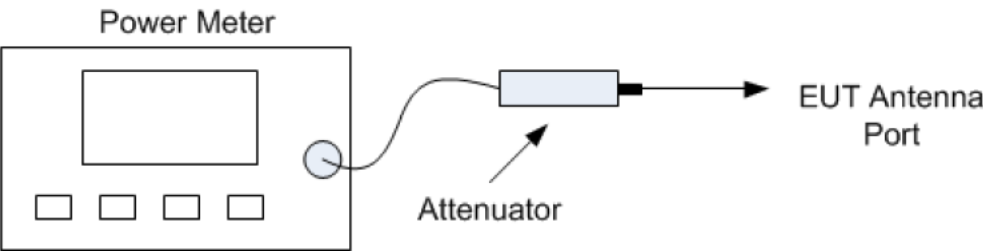
Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)

9.2 Conducted Output Power

Test Method

- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- 4) Measure the peak power of the transmitter. This measurement is a peak over both the ON and OFF periods of the transmitter.



Power meter conducted test setup

Limits

According to §15.247 (b) (3) & RSS-247 5.4(d), conducted output power limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤1	≤30

According to & RSS-247 5.4(d), EIRP limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤4	≤36

Test result as below table

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	23.47	<=30	Pass
		2437	23.42	<=30	Pass
		2462	23.47	<=30	Pass
802.11g	SISO	2412	21.56	<=30	Pass
		2437	21.61	<=30	Pass
		2462	21.67	<=30	Pass
802.11n (HT20)	SISO	2412	21.46	<=30	Pass
		2437	21.48	<=30	Pass
		2462	21.47	<=30	Pass
802.11n (HT40)	SISO	2422	16.69	<=30	Pass
		2437	16.84	<=30	Pass
		2452	17.02	<=30	Pass

Mode	TX Type	Frequency (MHz)	EIRP (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	27	<=36	Pass
		2437	26.95	<=36	Pass
		2462	27	<=36	Pass
802.11g	SISO	2412	25.09	<=36	Pass
		2437	25.14	<=36	Pass
		2462	25.2	<=36	Pass
802.11n (HT20)	SISO	2412	24.99	<=36	Pass
		2437	25.01	<=36	Pass
		2462	25	<=36	Pass
802.11n (HT40)	SISO	2422	20.22	<=36	Pass
		2437	20.37	<=36	Pass
		2452	20.55	<=36	Pass

Note: ANT gain is 3.53 dBi

9.3 6dB Bandwidth

Test Method for 6 dB Bandwidth

1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
RBW=1% to 5% of the occupied bandwidth but not less than 100kHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Use the automatic bandwidth measurement capability of an instrument, use the X dB bandwidth mode with X set to 6 dB.
5. Allow the trace to stabilize, record the 6 dB Bandwidth value.

Limit

Limit [kHz]

≥ 500

Test Method for 99 % Bandwidth

1. Set center frequency to the nominal EUT channel center frequency
2. Set span = 1.5 times to 5.0 times the OBW. Set RBW = 1 % to 5 % of the OBW
Set VBW $\geq$ 3 RBW Trace mode = max hold. Sweep = auto couple.
Allow the trace to stabilize.
3. Use the 99 % power bandwidth function of the instrument.
4. Record the results in the test report.

Limit

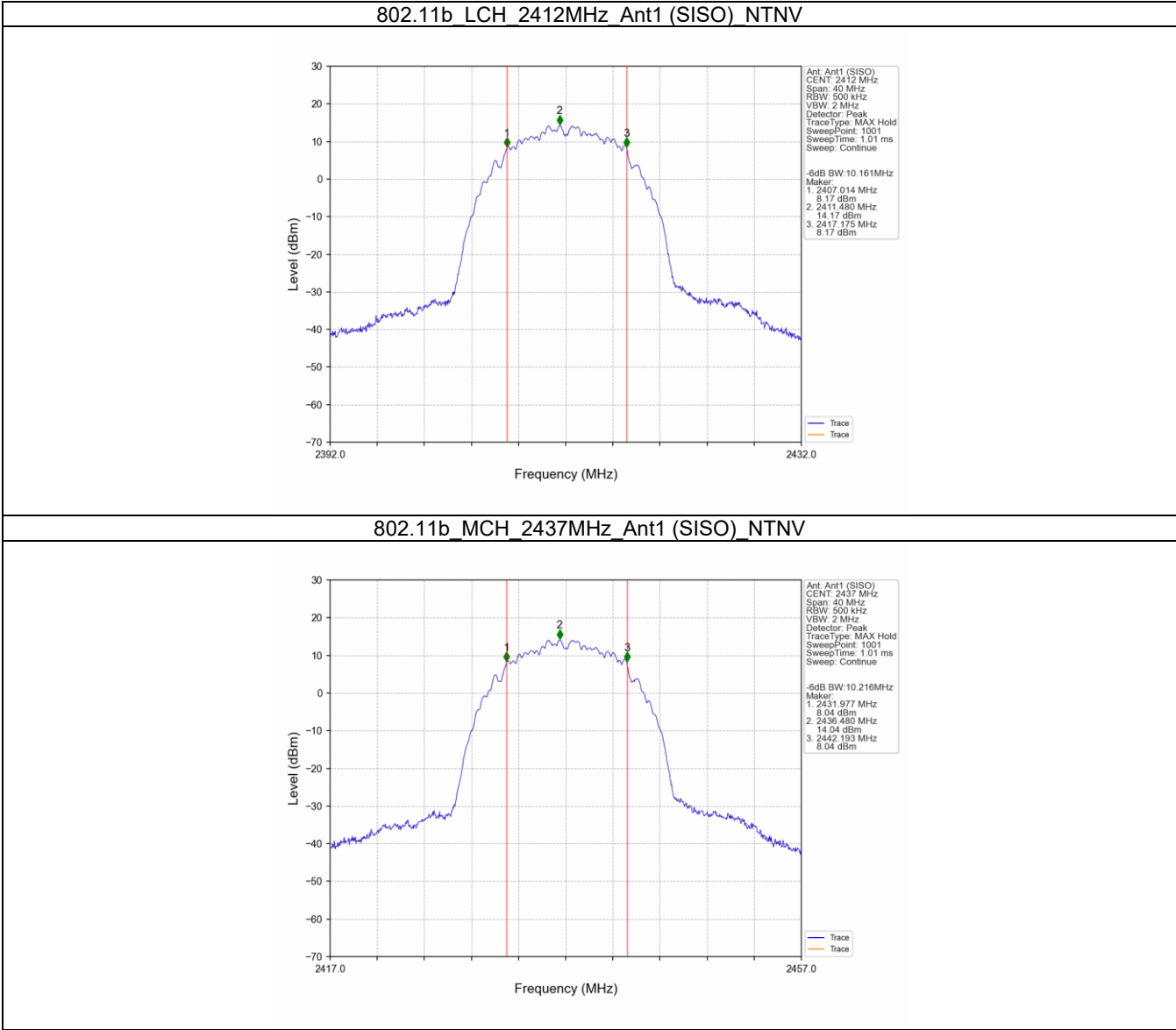
Limit [kHz]

/

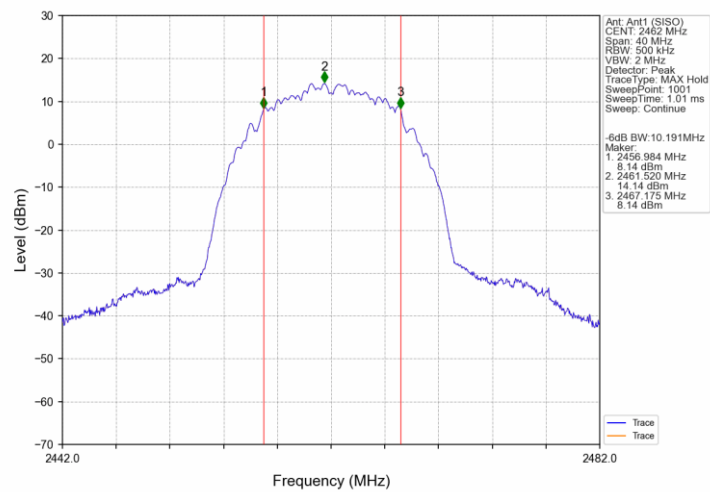
6 dB Bandwidth

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.161	≥ 0.5	Pass
		2437	1	10.216	≥ 0.5	Pass
		2462	1	10.191	≥ 0.5	Pass
802.11g	SISO	2412	1	16.677	≥ 0.5	Pass
		2437	1	16.662	≥ 0.5	Pass
		2462	1	16.685	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.520	≥ 0.5	Pass
		2437	1	17.504	≥ 0.5	Pass
		2462	1	17.460	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.756	≥ 0.5	Pass
		2437	1	35.820	≥ 0.5	Pass
		2452	1	35.717	≥ 0.5	Pass

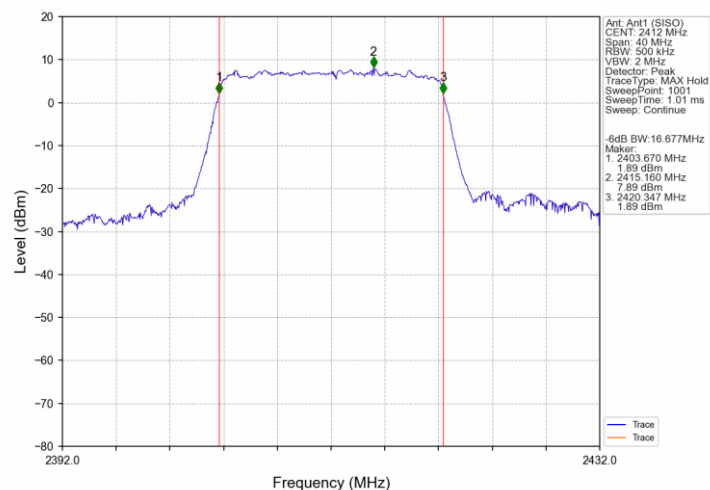
6 dB Bandwidth



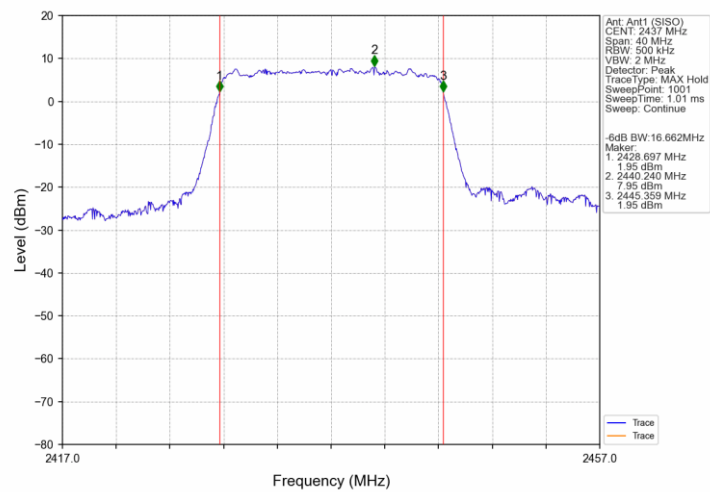
802.11b HCH 2462MHz Ant1 (SISO) NTNV



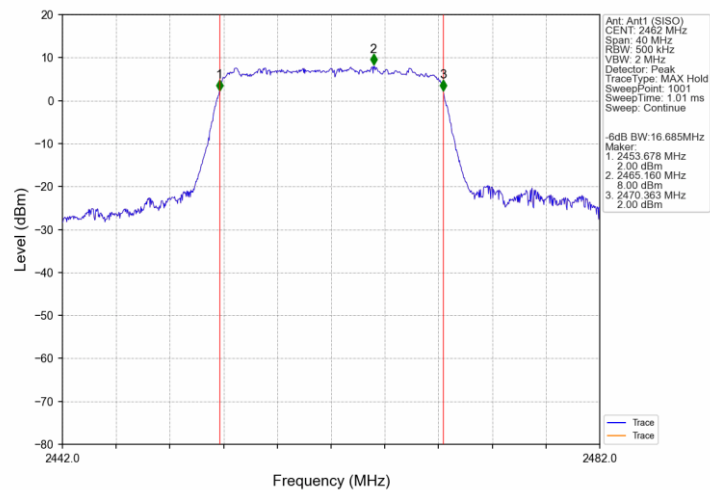
802.11g LCH 2412MHz Ant1 (SISO) NTNV



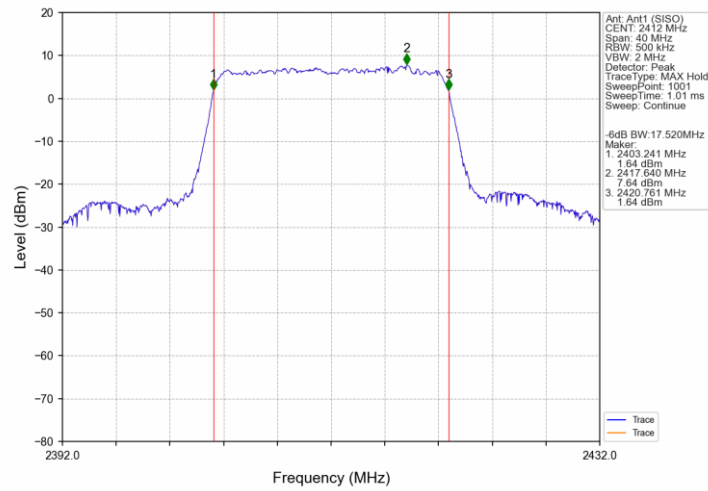
802.11g MCH 2437MHz Ant1 (SISO) NTN



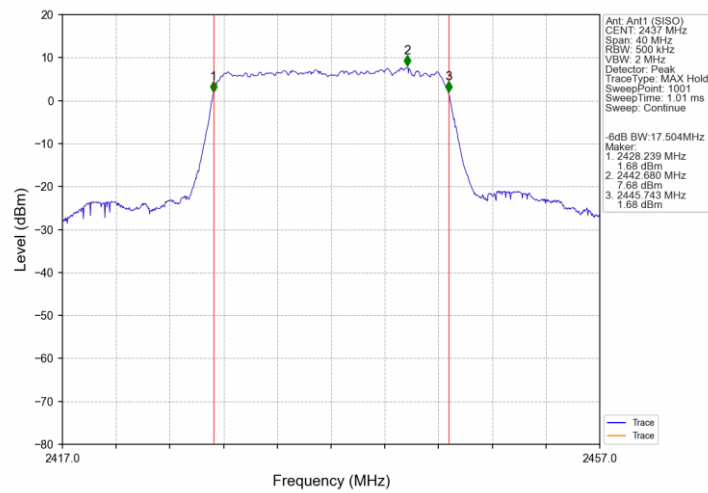
802.11g HCH 2462MHz Ant1 (SISO) NTN



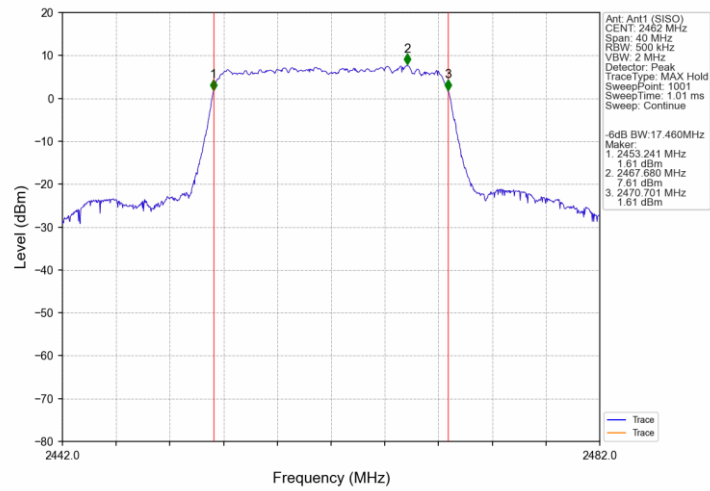
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



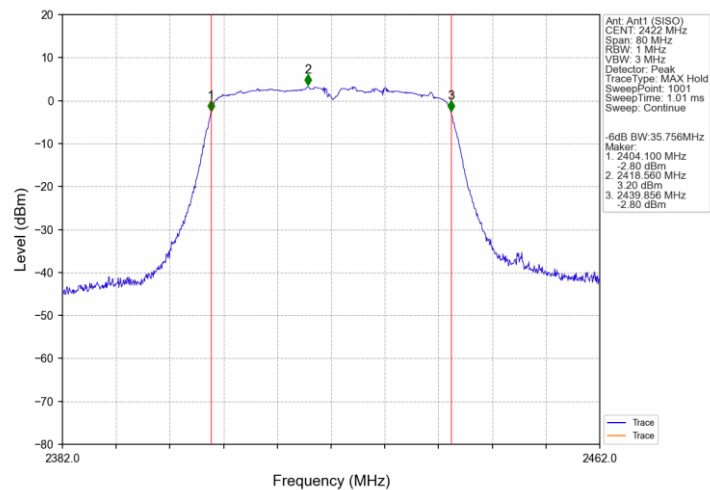
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



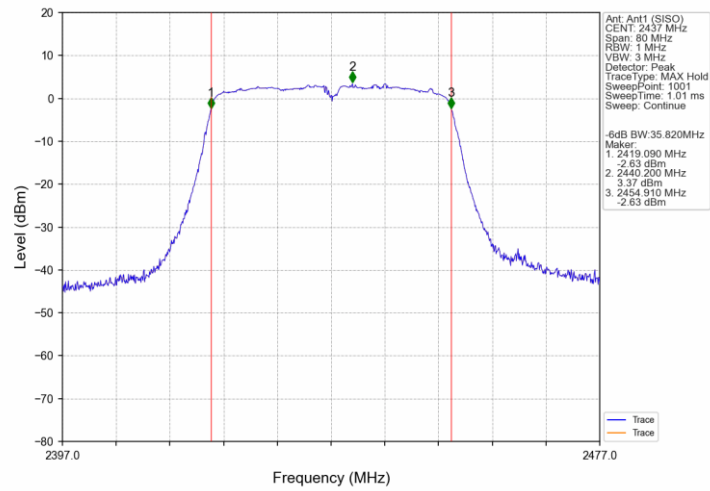
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



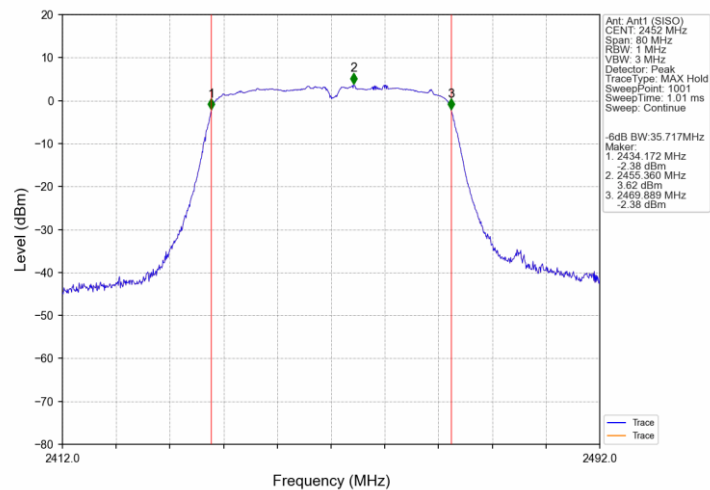
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTV



802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTV

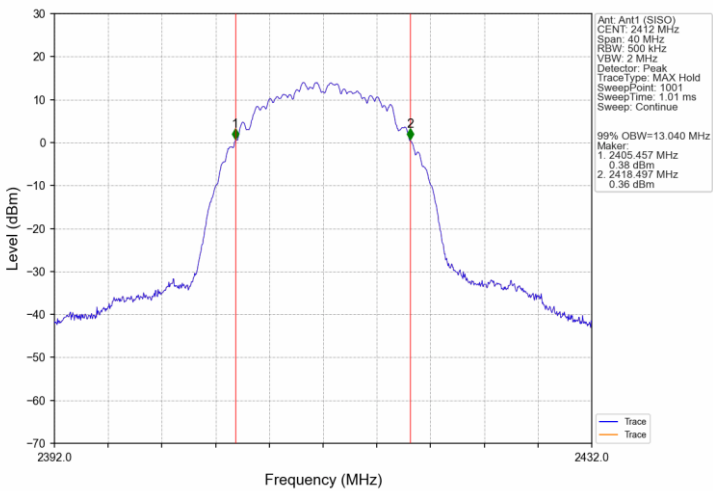


99% Bandwidth

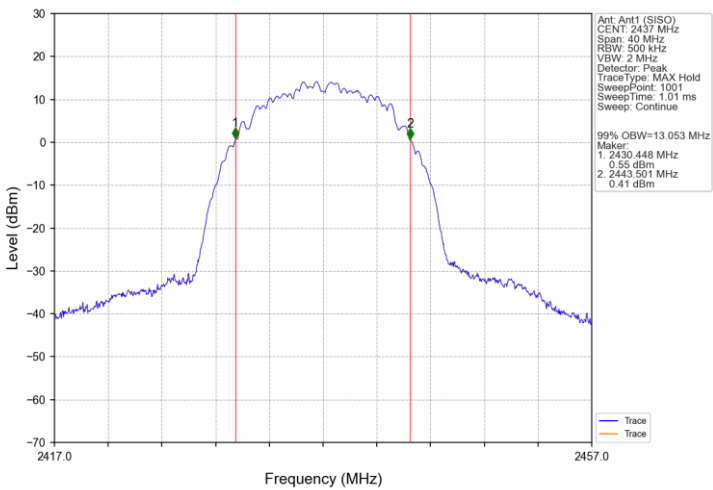
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.040	/	Pass
		2437	1	13.053	/	Pass
		2462	1	13.038	/	Pass
802.11g	SISO	2412	1	16.987	/	Pass
		2437	1	17.004	/	Pass
		2462	1	16.962	/	Pass
802.11n (HT20)	SISO	2412	1	17.612	/	Pass
		2437	1	17.613	/	Pass
		2462	1	17.591	/	Pass
802.11n (HT40)	SISO	2422	1	36.048	/	Pass
		2437	1	36.115	/	Pass
		2452	1	36.023	/	Pass

99% Bandwidth

802.11b LCH 2412MHz Ant1 (SISO) NTN

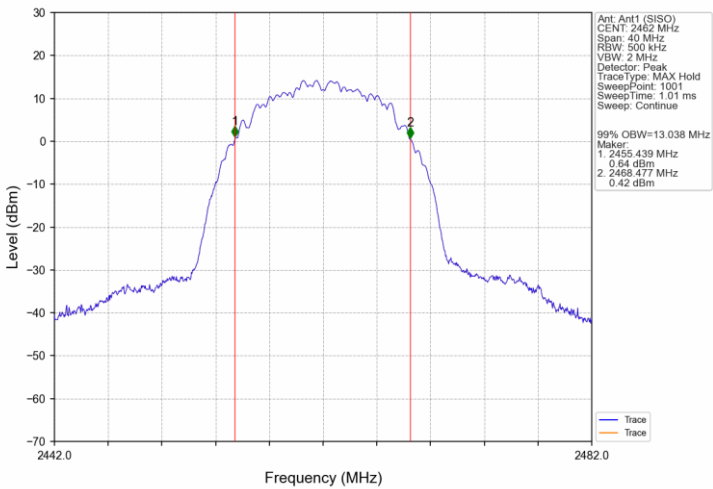


802.11b MCH 2437MHz Ant1 (SISO) NTN

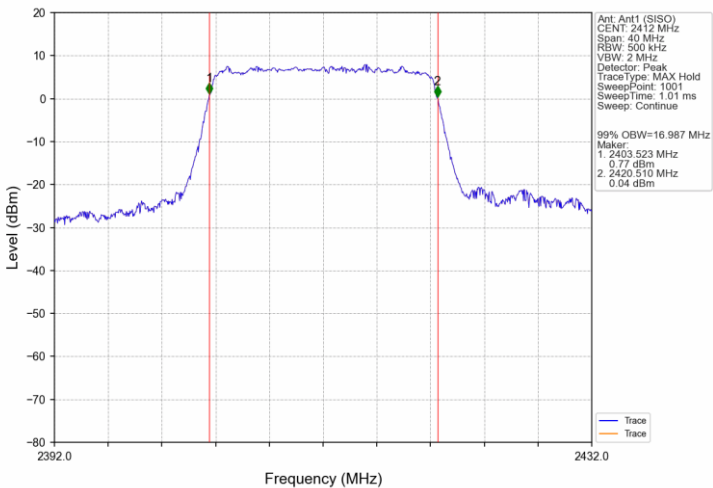




802.11b HCH 2462MHz Ant1 (SISO) NTV

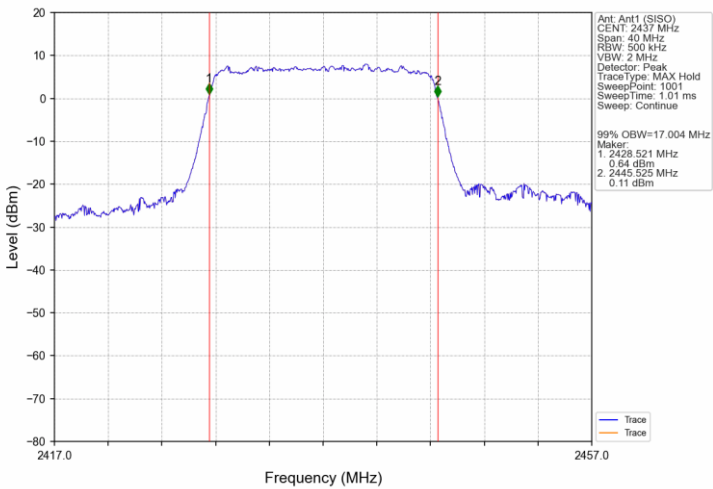


802.11g LCH 2412MHz Ant1 (SISO) NTV

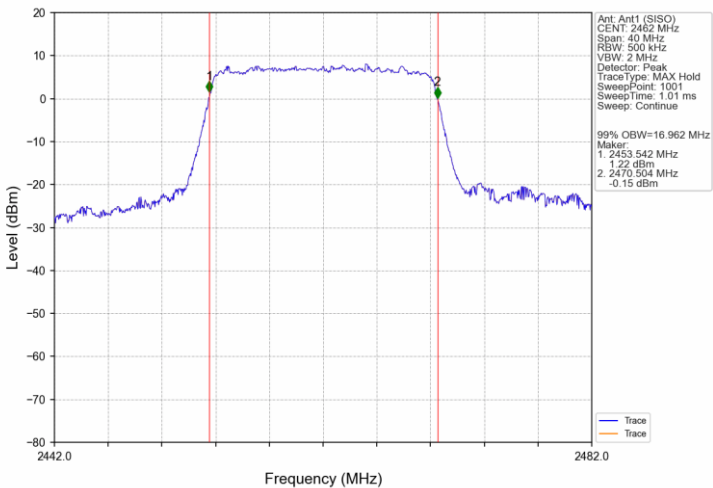




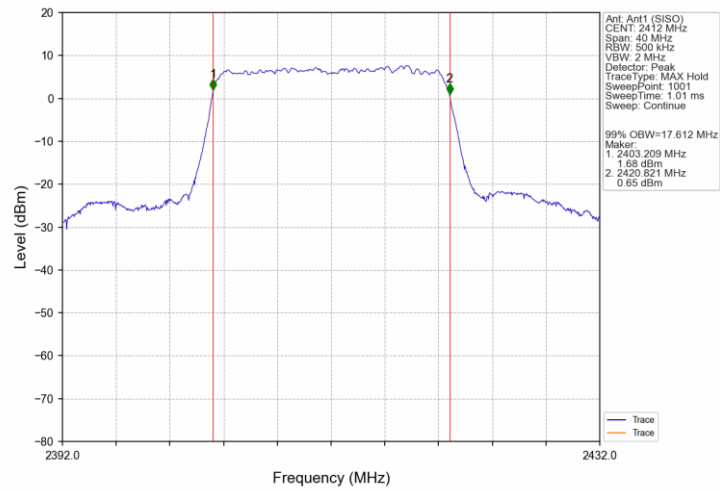
802.11g MCH 2437MHz Ant1 (SISO) NTN



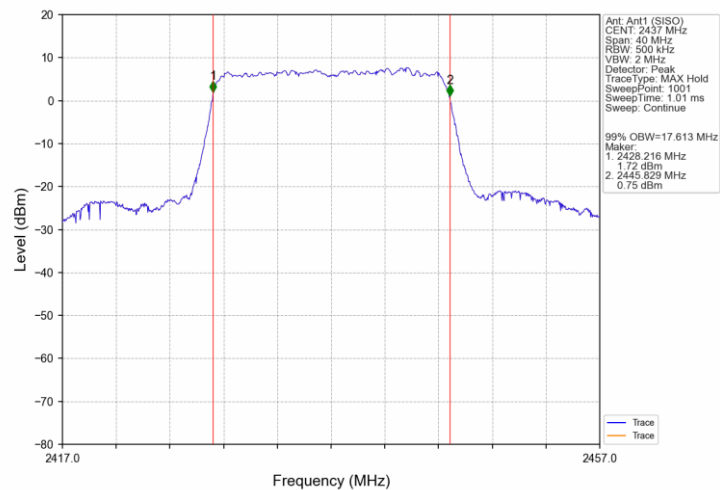
802.11g HCH 2462MHz Ant1 (SISO) NTN



802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV

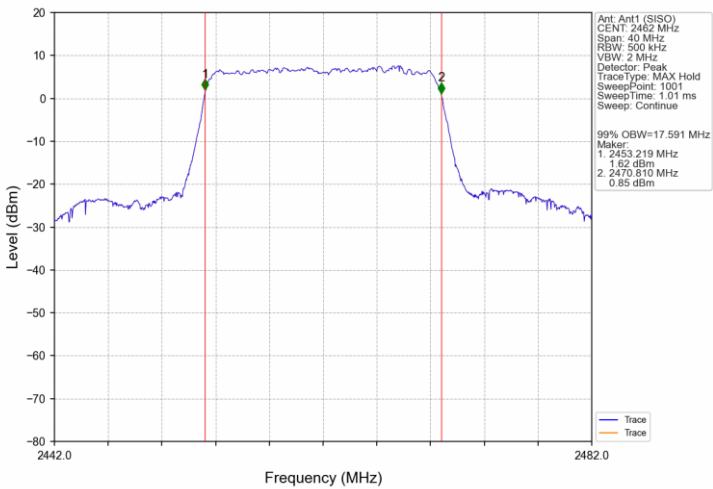


802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTV

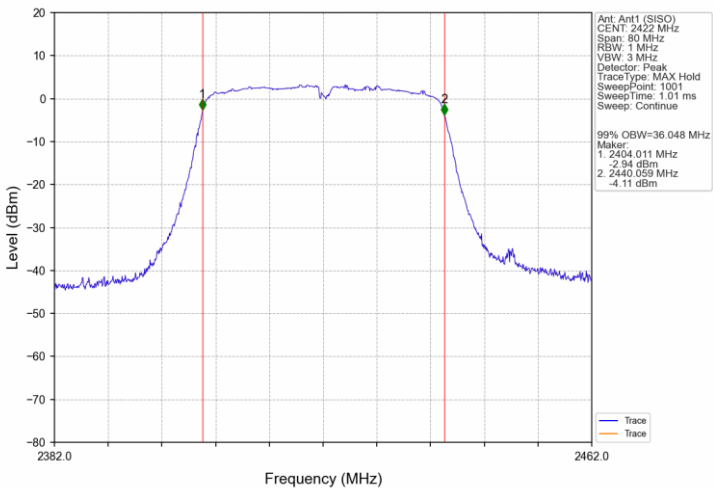




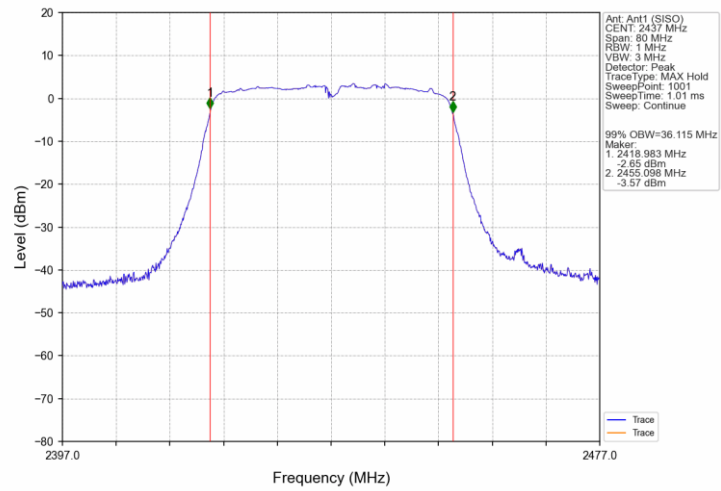
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



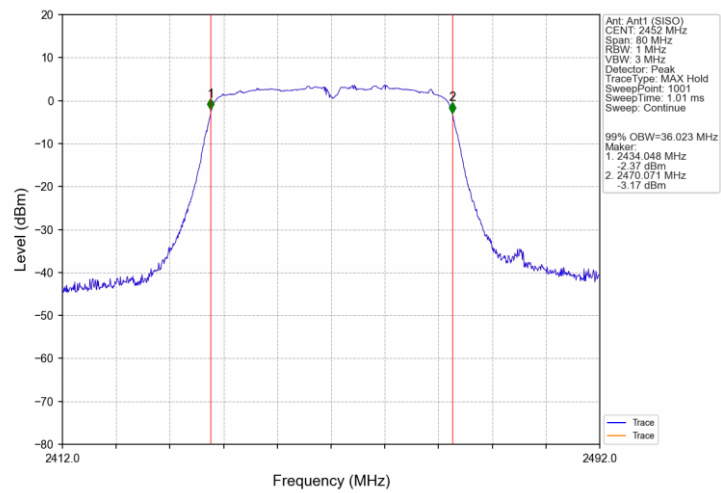
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



9.4 Power Spectral Density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
4. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW $\geq$ 3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
5. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
6. Repeat above procedures until other frequencies measured were completed.

Limit

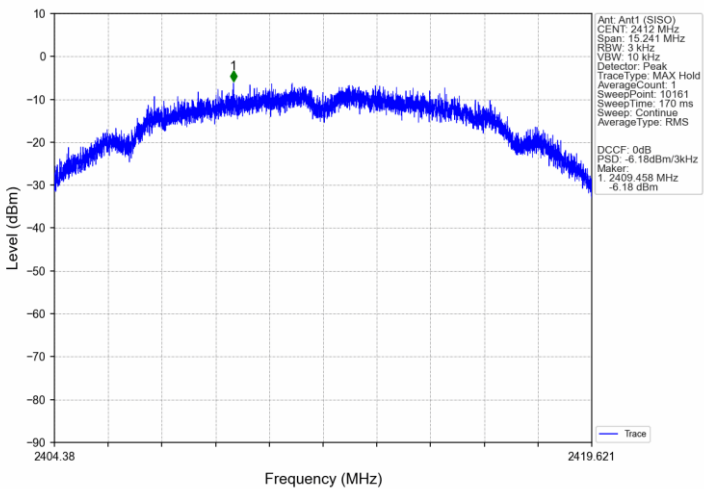
Limit [dBm/3KHz]

≤ 8

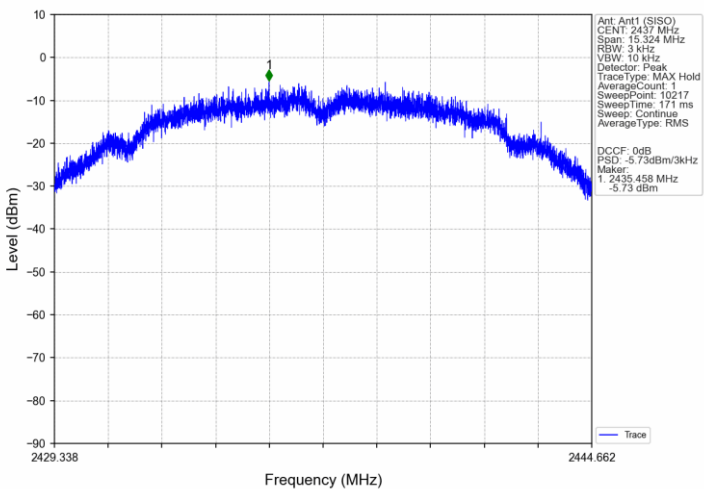
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-6.18	<=8	Pass
		2437	-5.73	<=8	Pass
		2462	-6.06	<=8	Pass
802.11g	SISO	2412	-10.97	<=8	Pass
		2437	-11.00	<=8	Pass
		2462	-11.59	<=8	Pass
802.11n (HT20)	SISO	2412	-11.61	<=8	Pass
		2437	-11.77	<=8	Pass
		2462	-10.94	<=8	Pass
802.11n (HT40)	SISO	2422	-18.01	<=8	Pass
		2437	-18.54	<=8	Pass
		2452	-17.71	<=8	Pass



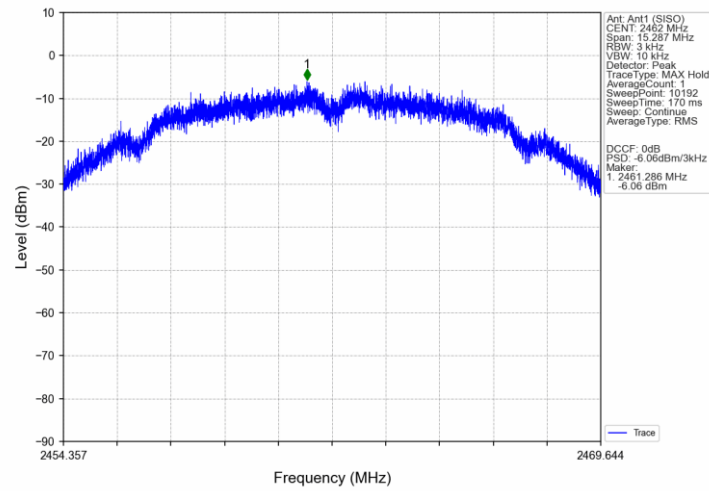
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



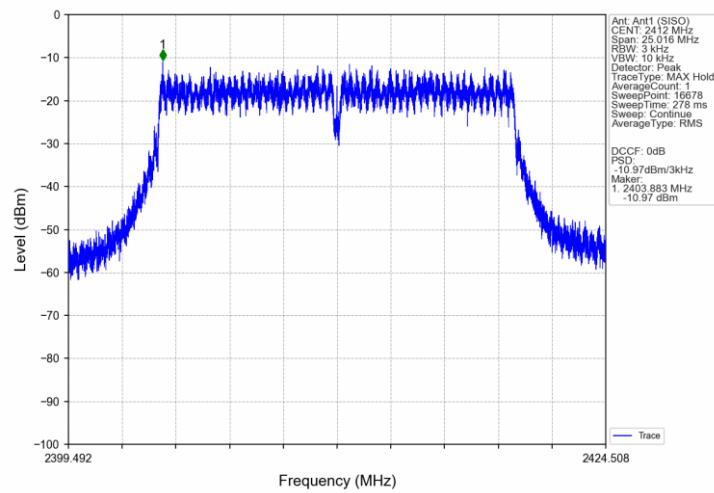
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b HCH 2462MHz Ant1 (SISO) NTNV

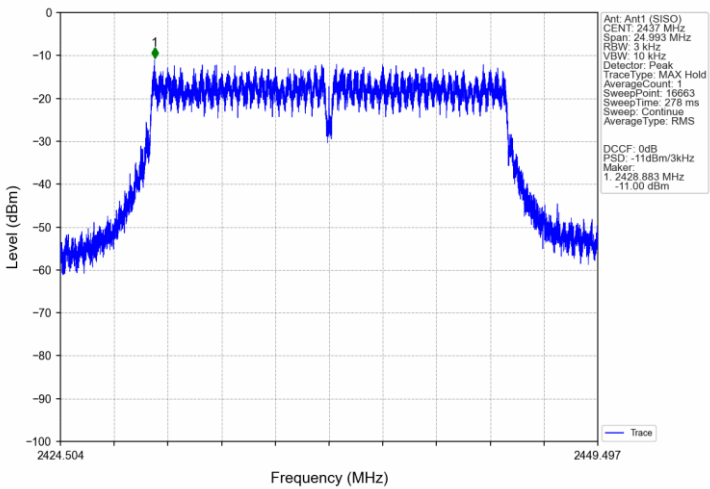


802.11g LCH 2412MHz Ant1 (SISO) NTNV

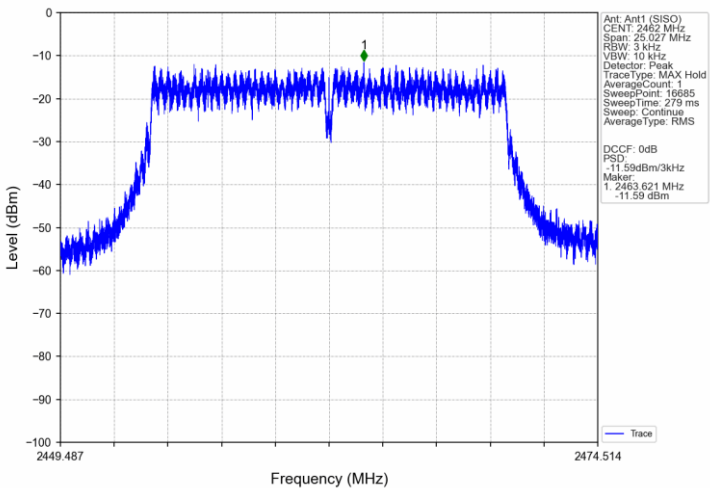




802.11g_MCH_2437MHz_Ant1 (SISO) NTN

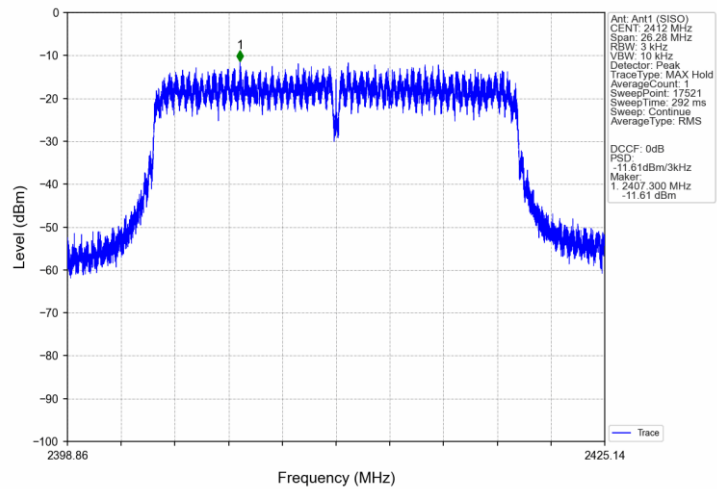


802.11g_HCH_2462MHz_Ant1 (SISO) NTN

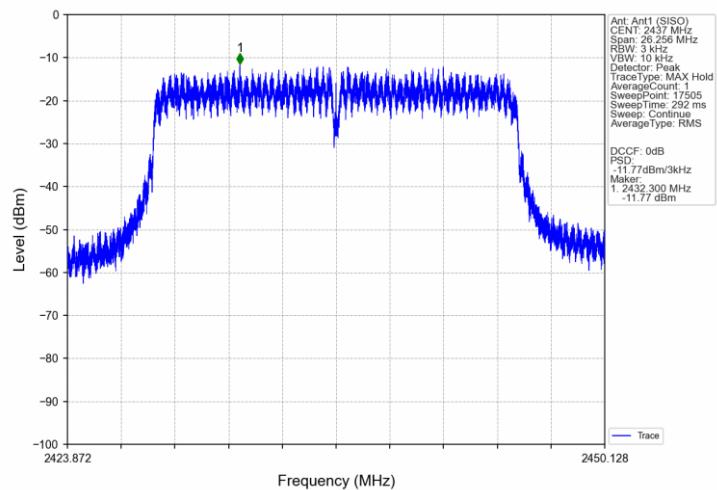




802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV

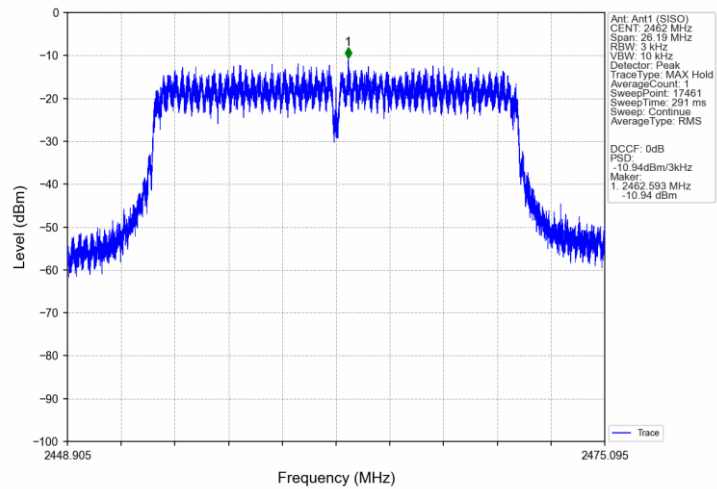


802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV

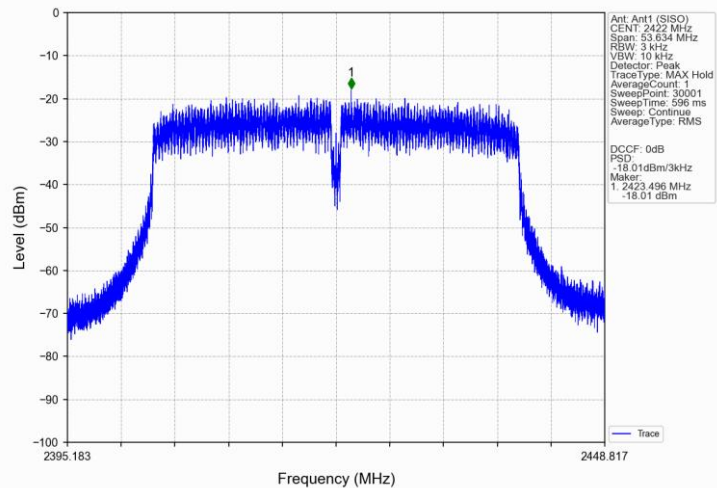




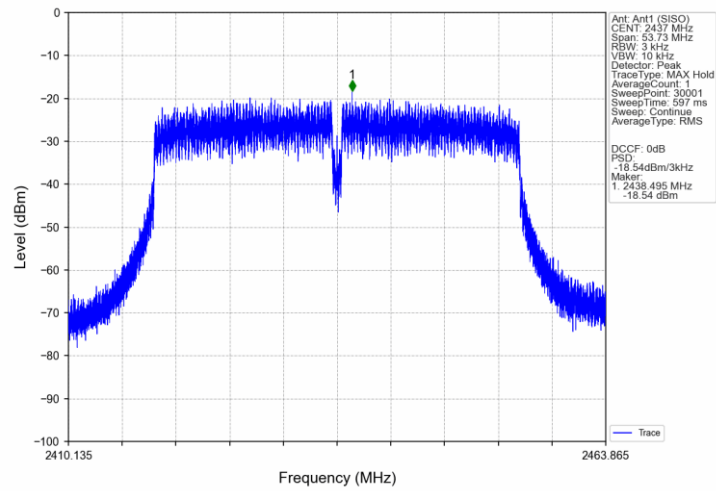
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



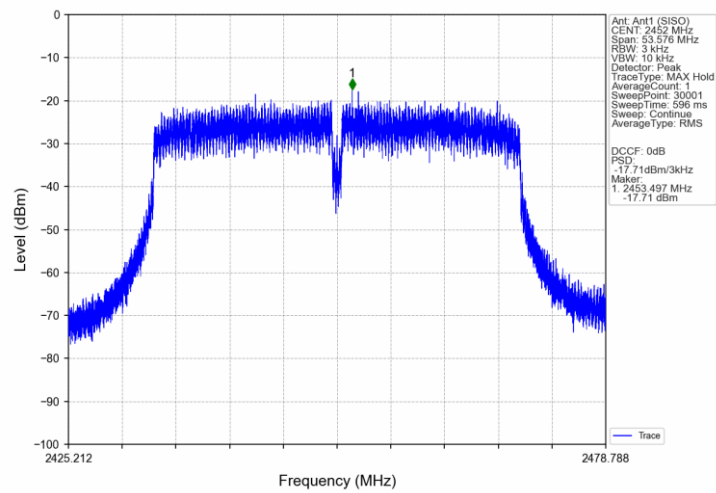
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



9.5 Spurious RF Conducted Emissions

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
RBW = 100 kHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
5. The level displayed must comply with the limit specified in this Section. Submit these plots.
6. Repeat above procedures until all frequencies measured were complete.

Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

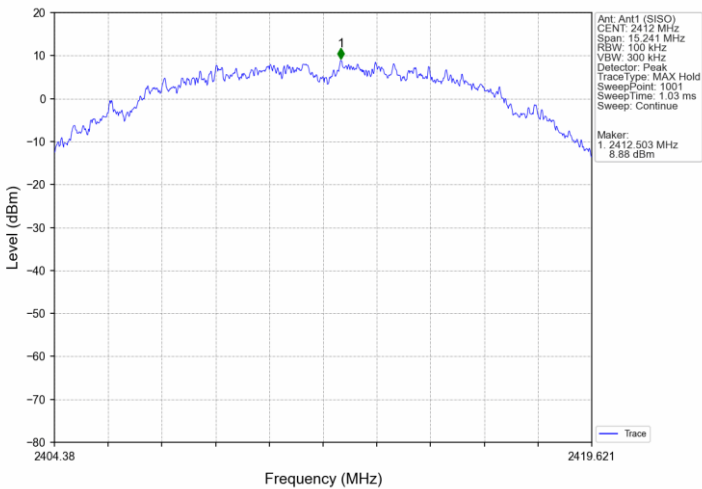
Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.88	-11.12	Pass
		2437	1	8.85	-11.15	Pass
		2462	1	9.22	-10.78	Pass
802.11g	SISO	2412	1	2.28	-17.72	Pass
		2437	1	2.42	-17.58	Pass
		2462	1	2.29	-17.71	Pass
802.11n (HT20)	SISO	2412	1	2.20	-17.80	Pass
		2437	1	2.31	-17.69	Pass
		2462	1	2.44	-17.56	Pass
802.11n (HT40)	SISO	2422	1	-4.95	-24.95	Pass
		2437	1	-4.75	-24.75	Pass
		2452	1	-4.82	-24.82	Pass

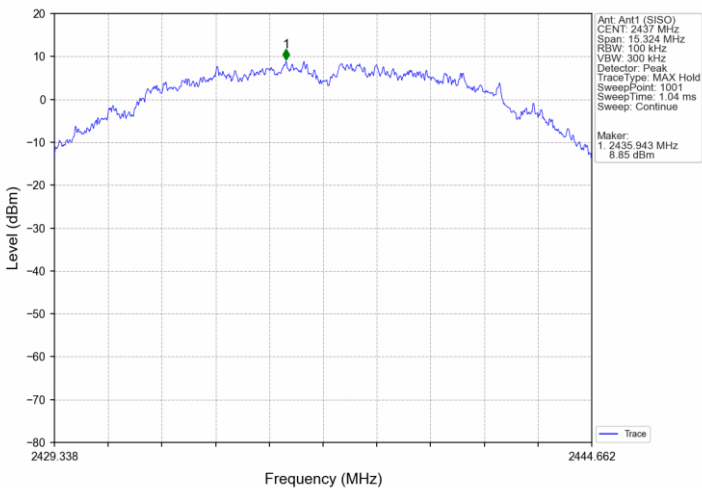
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

Spurious RF conducted emissions

802.11b LCH 2412MHz Ant1 (SISO) NTN

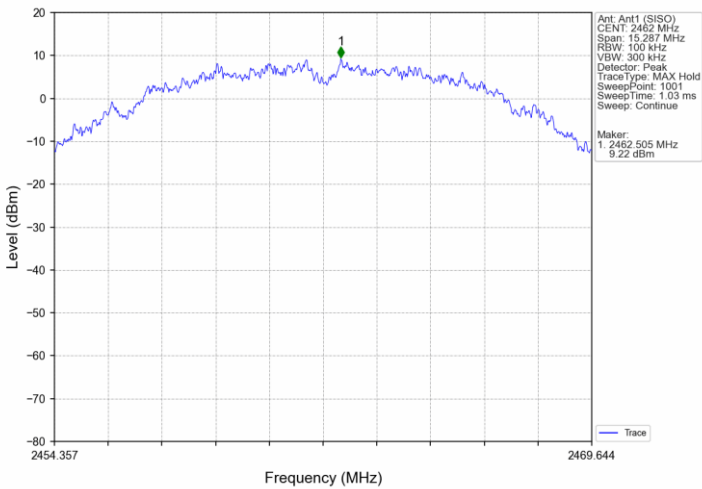


802.11b MCH 2437MHz Ant1 (SISO) NTN

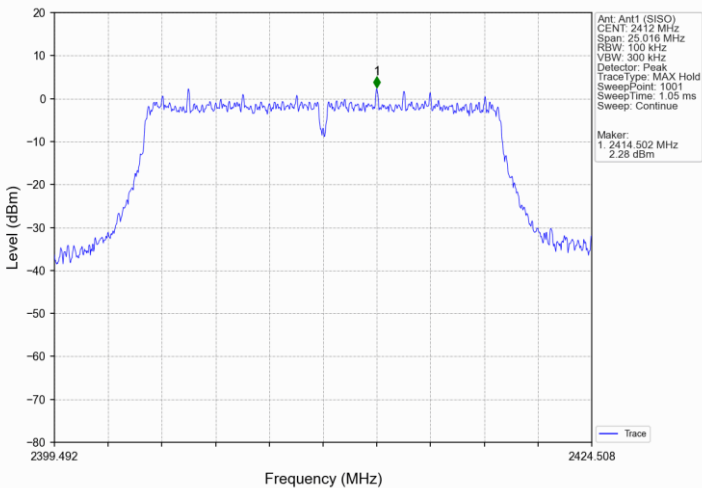




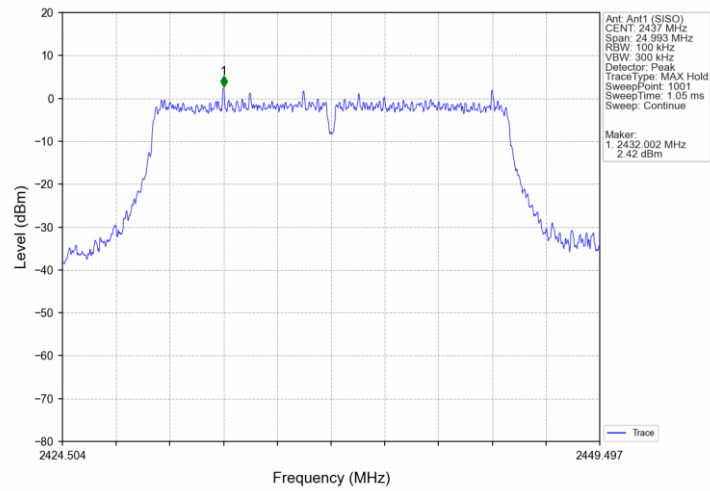
802.11b HCH 2462MHz Ant1 (SISO) NTN



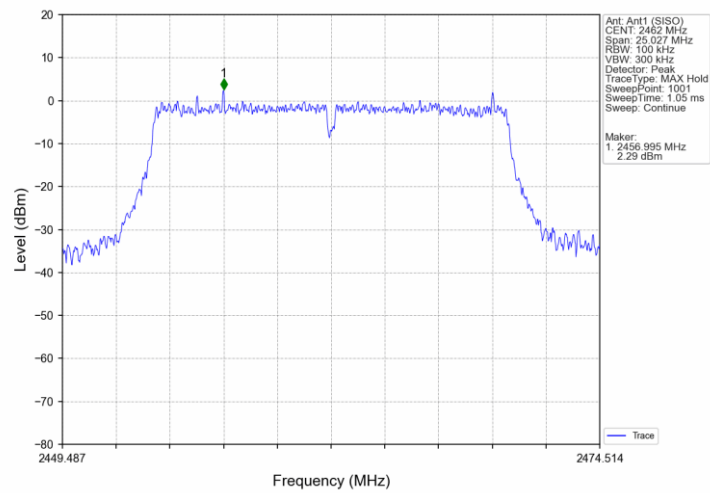
802.11g LCH 2412MHz Ant1 (SISO) NTN



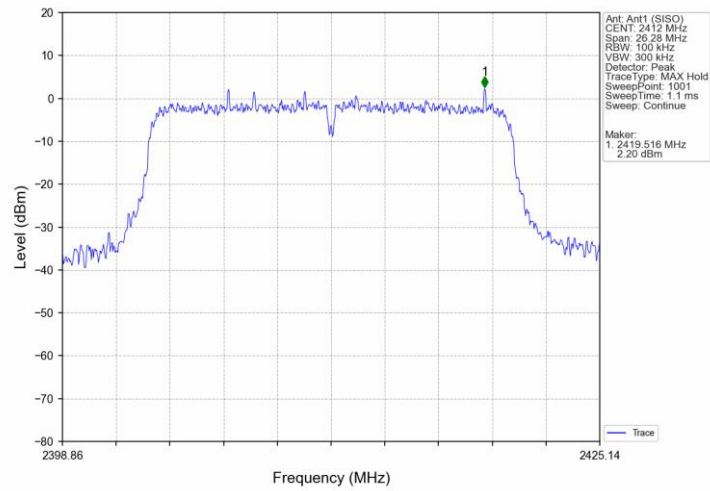
802.11g_MCH_2437MHz_Ant1 (SISO) NTN



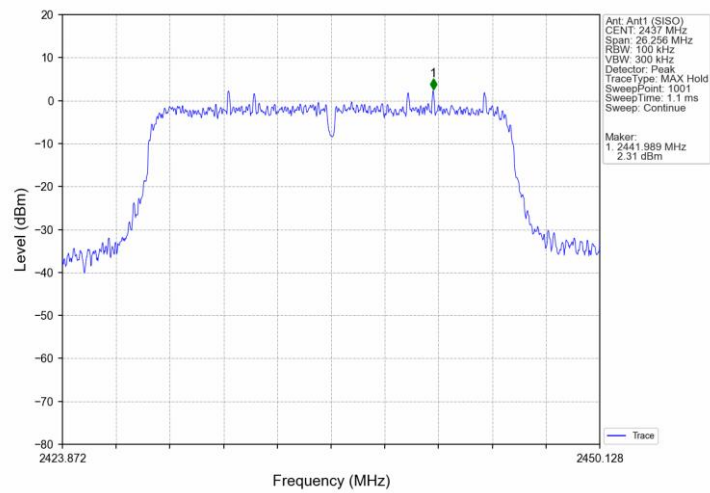
802.11g_HCH_2462MHz_Ant1 (SISO) NTN



802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV

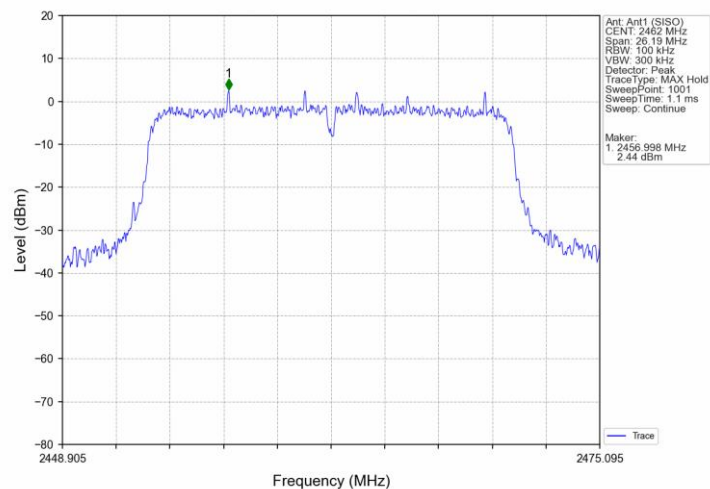


802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV





802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV

