

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900343904

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TEST REPORT

Application No.: SZCR2409003439AT
Applicant: Anker Innovations Limited
Address of Applicant: Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong, China
Manufacturer: Anker Innovations Limited
Address of Manufacturer: Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong, China
Factory: Ten Pao Electronics (Huizhou) Co., Ltd.
Address of Factory: Dongjiang Industrial Area, Shuikou Town, Huizhou City, Guangdong Province, P.R.China

Equipment Under Test (EUT):

EUT Name: Anker SOLIX Solarbank 2 E1600 AC
Model No.: A17C2, A17C6 ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) : EN 300 328 V2.2.2
Date of Receipt: 2024-09-05
Date of Test: 2024-09-20 to 2024-09-25
Date of Issue: 2024-09-29

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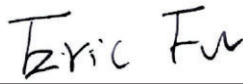
* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-09-29		Original

Authorized for issue by:				
				
		Charlie Dai/Project Engineer		
				
		Eric Fu/Reviewer		



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2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Transmitter unwanted emissions in the spurious domain	EN 300 328 V2.2.2	EN 300 328 Clause 5.4.9.2	EN 300 328 Clause 4.3.2.9.3	Pass
Receiver spurious emissions		EN 300 328 Clause 5.4.10.2	EN 300 328 Clause 4.3.2.10.3	Pass
RF Output Power		EN 300 328 Clause 5.4.2.2.1.2	EN 300 328 Clause 4.3.2.2.3	Pass
Power Spectral Density		EN 300 328 Clause 5.4.3.2.1	EN 300 328 Clause 4.3.2.3.3	Pass

Remark:

Model No.: A17C2, A17C6

Only the model A17C2 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on output power of the AC output grid-connected port.

This test report (Ref. No.: SZCR240900343904) is only valid with the modular test report (Ref. No.: RSHD200323002-01A)

According to the declaration from the applicant, the WIFI module used in this report and the one in original report were identical (WIFI & Bluetooth Internet of Things Module, model No.: ESP32-WROOM-32UE).

Therefore in this report the section 2 items were fully retested on model and shown the data in this report, other tests please refer to modular test report RSHD200323002-01A.



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4 General Information

4.1 Details of E.U.T.

Power supply:	<p>PV terminal: Max. PV input voltage: 60Vd.c., Max. PV input current: 16Ad.c.(per channel) Max. Isc. PV: 20Ad.c., Max. PV input power: 1200W Operation voltage range: 16-60Vdc Rechargeable Li-ion Battery: 16Vdc 75Adc 800W 100Ah AC input: Max. AC input power: 2000W Max. AC input: 10Aac, 230Vac AC output (On-grid terminal): AC output power: 800W, AC rated output: 220/230/240Va.c. 50/60Hz Max. AC output current: 3.5Aa.c. 230Va.c. Off-grid terminal: Max. AC output power: 2000W, AC rated output: 220/230/240Va.c. 50/60Hz Max. AC output: 10Aa.c. 230Va.c.</p> <p>Battery terminal: Battery rated voltage: 16Vd.c., Max. charge current: 75Ad.c. Max. discharge current: 75Ad.c., Rated power: 800W, Rated capacity:100Ah</p>
Cable(s):	<p>PV cable 299cm *4 Grid AC cable 498cm *1</p>
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2472MHz, 802.11n(HT40): 2422MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20): 13, 802.11n(HT40):9
Antenna Type:	Integral Antenna
Antenna Gain:	5.64dBi
Cable Loss (for RF conducted test):	0.9dB

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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4.2 Environment Parameter

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	25	DC 3.3V
NTLV	-20	DC 3.3V
HTNV	55	DC 3.3V

Note:
 NV:Normal Voltage LT:Low Extreme Test Temperature HT:High Extreme Test Temperature
 NT:Normal Temperature

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Transmitter unwanted emissions in the spurious domain	± 4.5dB (Below 1GHz), ± 4.8dB (Above 1GHz)
Receiver spurious emissions	± 4.5dB (Below 1GHz), ± 4.8dB (Above 1GHz)
RF Output Power	± 0.75dB
Power Spectral Density	± 2.84dB

Remark:
 The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



5 Equipment List

Transmitter unwanted emissions in the spurious domain					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05

Receiver spurious emissions					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	AUDIX	N/A	SEM001-08	2022-05-14	2025-05-13
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2024-03-27	2025-03-26
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2024-03-19	2025-03-18
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024-03-27	2025-03-26
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2024-03-27	2025-03-26
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	TST PASS	TSPS2023R	SEM009-27	2024-03-27	2025-03-26
Power Sensor	TST PASS	TSPS2023R	SEM009-28	2024-03-27	2025-03-26
Power Sensor	TST PASS	TSPS2023R	SEM009-29	2024-03-27	2025-03-26
Programmable Temperature&Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18



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Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2024-07-06	2025-07-05
Signal Generator	KEYSIGHT	N5171B	SEM006-13	2024-03-14	2025-03-13
Universal Radio Communication Tester	Rohde&Schwarz	CMW500	SEM010-08	2024-03-14	2025-03-13

General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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6 Radio Spectrum Matter Test Results

6.1 Transmitter unwanted emissions in the spurious domain

Test Requirement EN 300 328 Clause 4.3.2.9.3

Test Method: EN 300 328 Clause 5.4.9.2

Measurement Distance: 3m

Limit:

Table 1: Transmitter limits for spurious emissions

Frequency range	Maximum power, e.r.p. (≤ 1 GHz) e.i.r.p. (> 1 GHz)	Bandwidth
30 MHz to 47 MHz	-36dBm	100 kHz
47 MHz to 74 MHz	-54dBm	100 kHz
74 MHz to 87,5 MHz	-36dBm	100 kHz
87,5 MHz to 118 MHz	-54dBm	100 kHz
118 MHz to 174 MHz	-36dBm	100 kHz
174 MHz to 230 MHz	-54dBm	100 kHz
230 MHz to 470 MHz	-36dBm	100 kHz
470 MHz to 694 MHz	-54dBm	100 kHz
694 MHz to 1 GHz	-36dBm	100 kHz
1 GHz to 12,75 GHz	-30dBm	1MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C

Humidity: 65.1 % RH

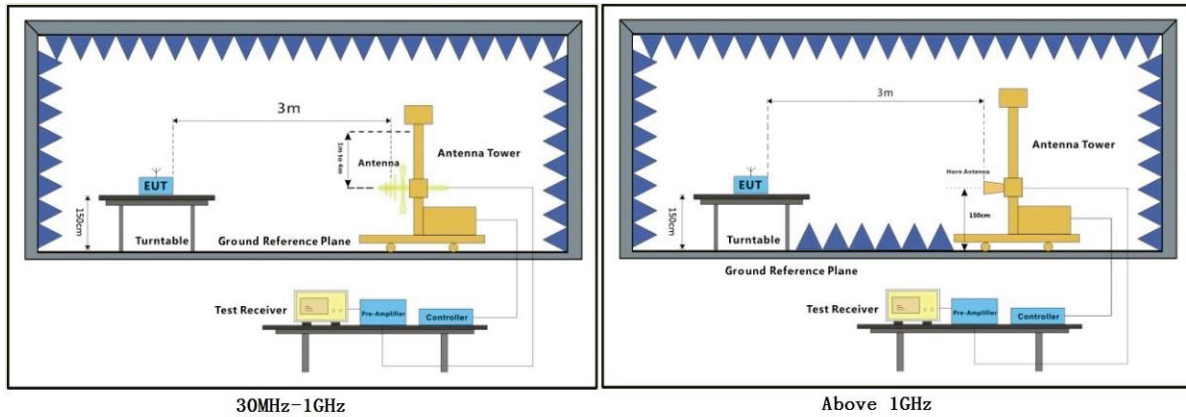
Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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). Only the data of worst case is recorded in the report.



6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

1. Using test software to set up the lowest channel, the middle channel and the highest channel.
2. Scan from 30MHz to 12.75GHz, find the maximum radiation frequency to measure. No Standby Mode apply for the EUT.
3. The technique used to find the Spurious Emissions of the transmitter was a pre-calibration method which is measure the path loss from the measurement antenna to the substitution antenna and subtract this from the signal generator level to reach the measurement result. The method was performed to determine the actual ERP/EIRP emission levels of the EUT.

Test procedure as below:

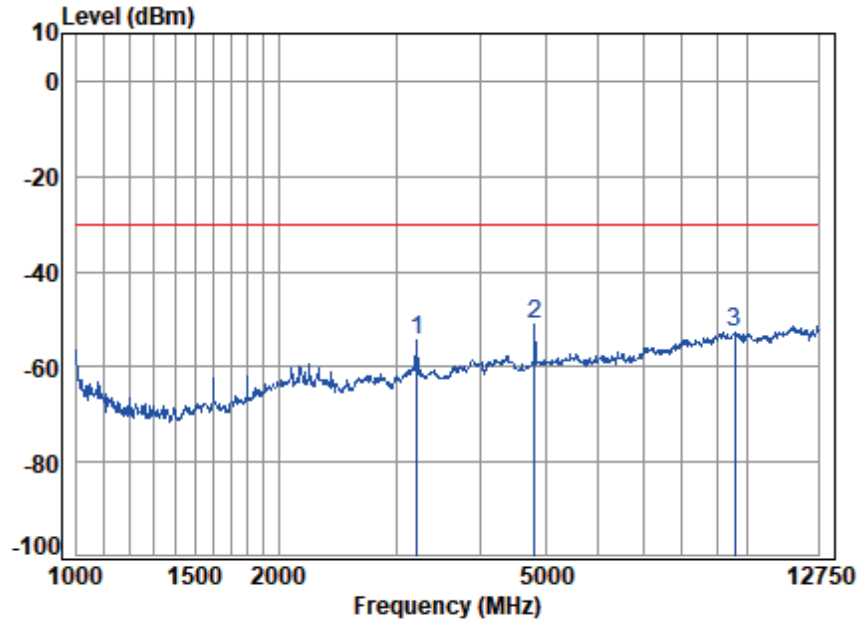
- 1) The EUT was powered ON and placed on a table in the chamber. The antenna of the transmitter was extended to its maximum length. Receiver mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- 2) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3) The test antenna shall be raised or lowered again, if necessary, through the specified height range until a maximum is obtained. This level shall be recorded.
- 4) This measurement shall be repeated for horizontal and vertical polarization.

Remark:

The disturbance below 1GHz was very low and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No: 03439AT

Test mode: 2412 TX RSE

Note: 2.4G WIFI 11B

Note:

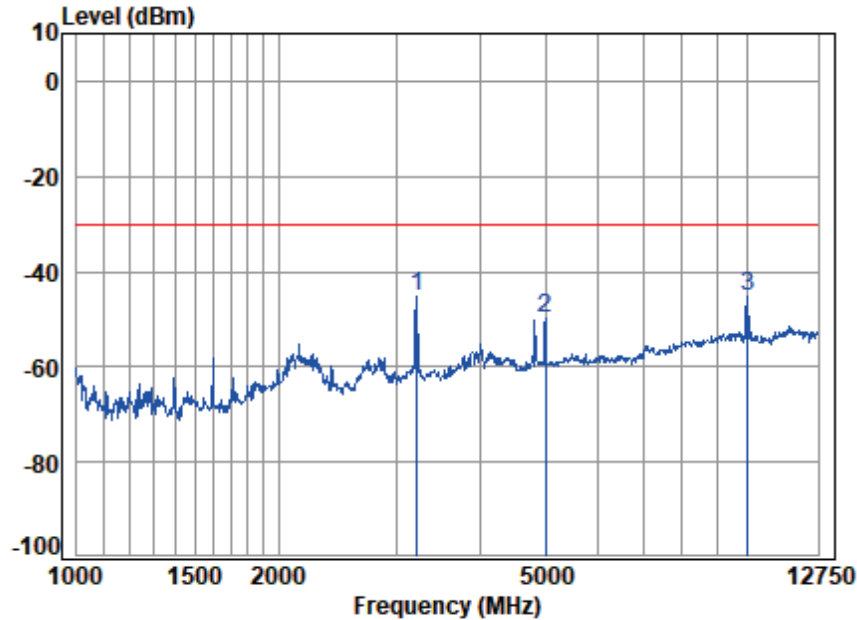
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	3216.84	-54.37	-30.00	-24.37
2	4821.76	-50.95	-30.00	-20.95
3	9562.85	-52.80	-30.00	-22.80



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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
 Job No: 03439AT
 Test mode: 2412 TX RSE
 Note: 2.4G WIFI 11B
 Note:

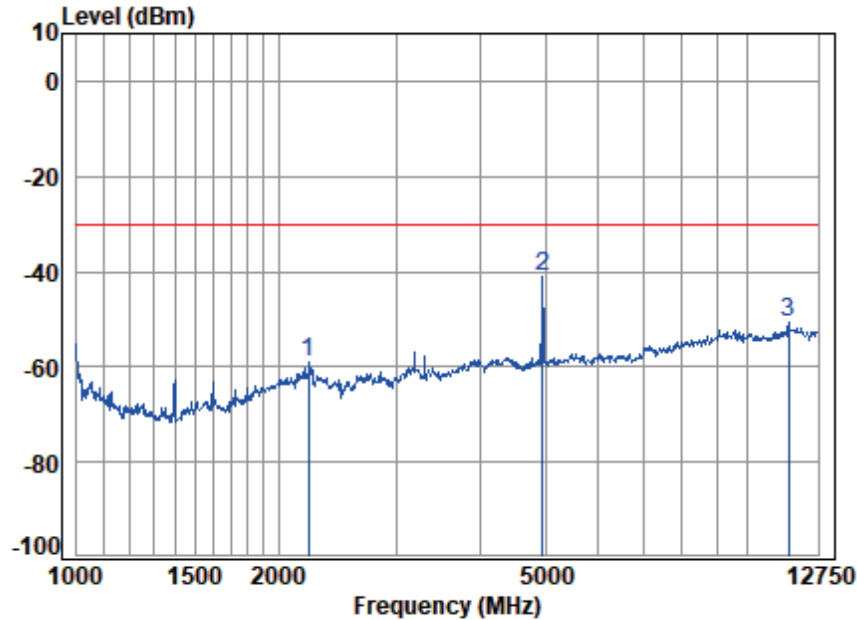
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	3216.84	-45.05	-30.00	-15.05
2	4996.69	-49.91	-30.00	-19.91
3	10011.21	-45.06	-30.00	-15.06



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No: 03439AT

Test mode: 2472 TX RSE

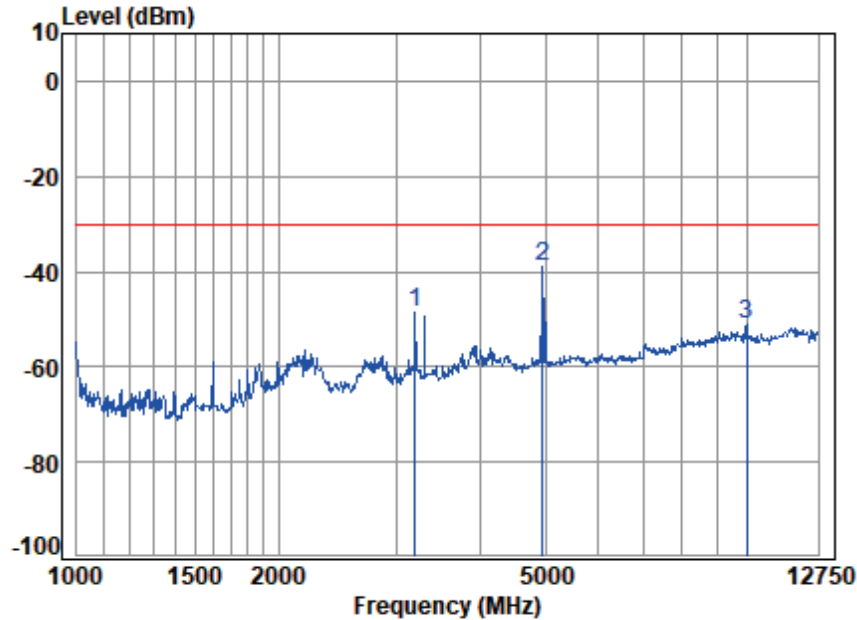
Note: 2.4G WIFI 11B

Note:

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	2218.32	-58.91	-30.00	-28.91
2	4946.07	-40.89	-30.00	-10.89
3	11515.68	-50.82	-30.00	-20.82



Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
 Job No: 03439AT
 Test mode: 2472 TX RSE
 Note: 2.4G WIFI 11B
 Note:

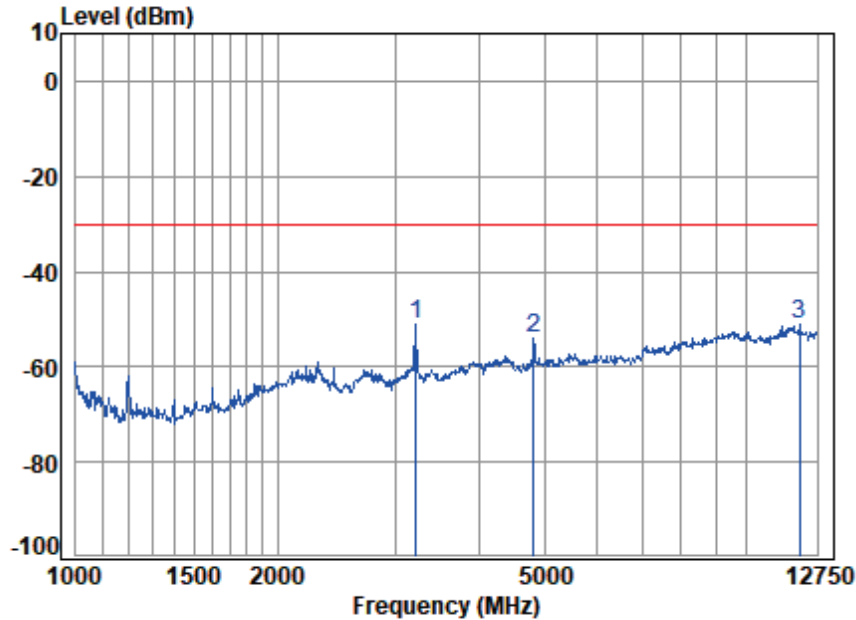
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	3200.50	-48.57	-30.00	-18.57
2	4946.07	-39.04	-30.00	-9.04
3	9985.76	-51.10	-30.00	-21.10



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No: 03439AT

Test mode: 2412 TX RSE

Note: 2.4G WIFI 11N 20

Note:

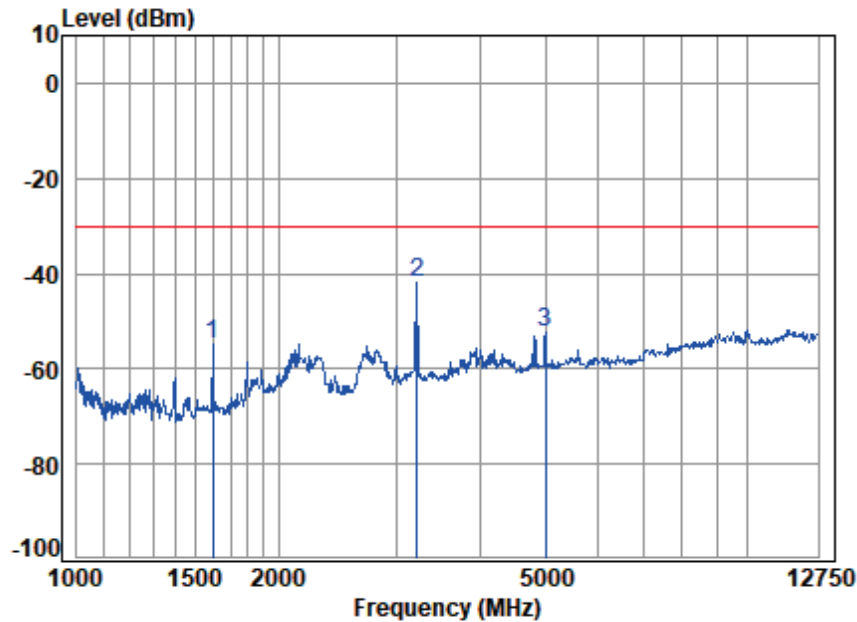
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	3216.84	-50.93	-30.00	-20.93
2	4821.76	-53.86	-30.00	-23.86
3	11994.38	-51.16	-30.00	-21.16



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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
 Job No: 03439AT
 Test mode: 2412 TX RSE
 Note: 2.4G WIFI 11N 20
 Note:

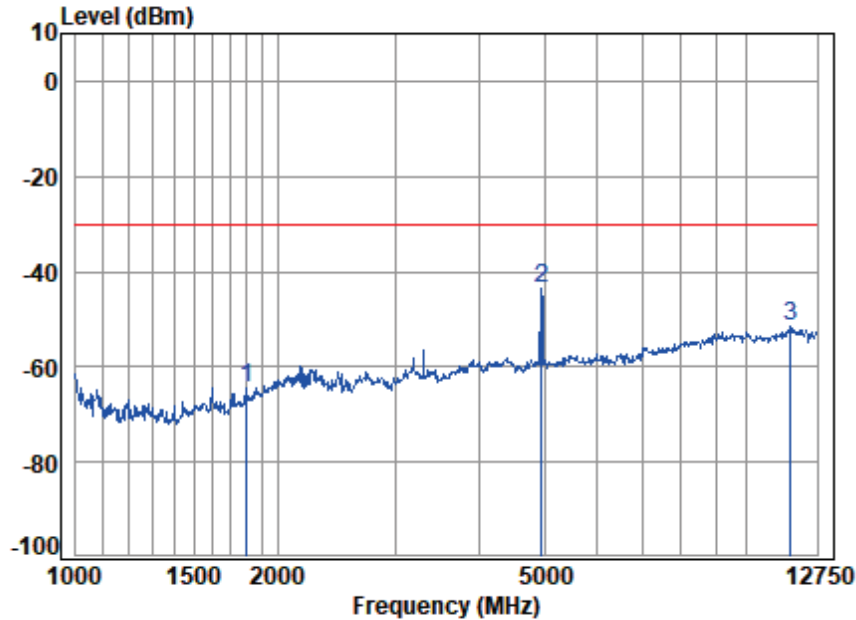
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	1593.34	-54.78	-30.00	-24.78
2	3216.84	-42.06	-30.00	-12.06
3	4996.69	-52.49	-30.00	-22.49



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No: 03439AT

Test mode: 2472 TX RSE

Note: 2.4G WIFI 11N 20

Note:

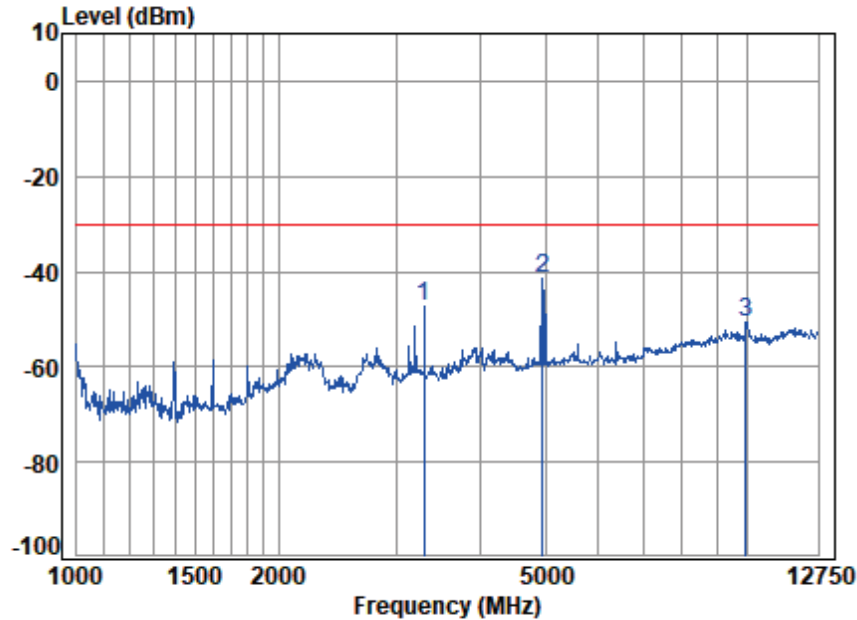
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	1800.42	-64.26	-30.00	-34.26
2	4946.07	-43.45	-30.00	-13.45
3	11633.54	-51.65	-30.00	-21.65



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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
 Job No: 03439AT
 Test mode: 2472 TX RSE
 Note: 2.4G WIFI 11N 20
 Note:

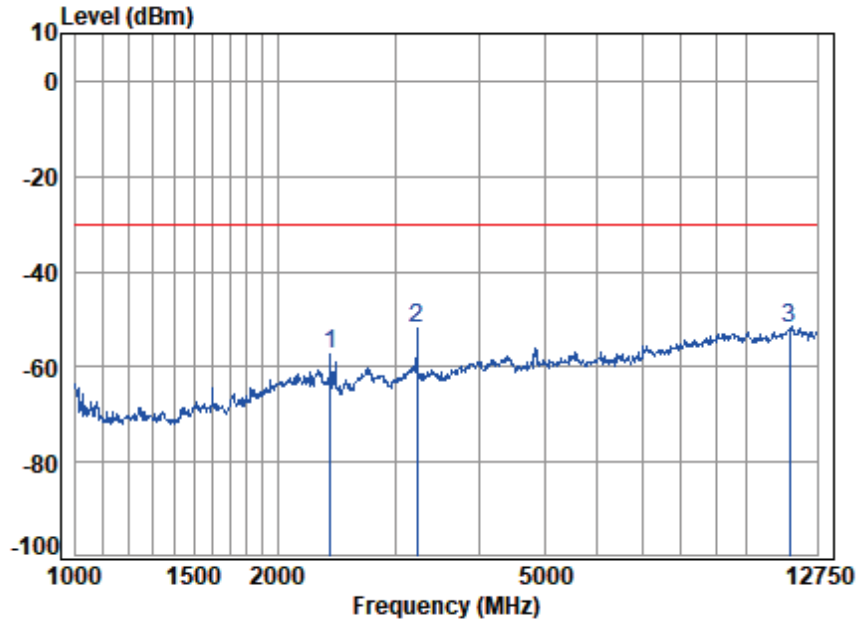
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	3299.78	-47.43	-30.00	-17.43
2	4946.07	-41.58	-30.00	-11.58
3	9960.38	-50.44	-30.00	-20.44



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No: 03439AT

Test mode: 2422 TX RSE

Note: 2.4G WIFI 11N 40

Note:

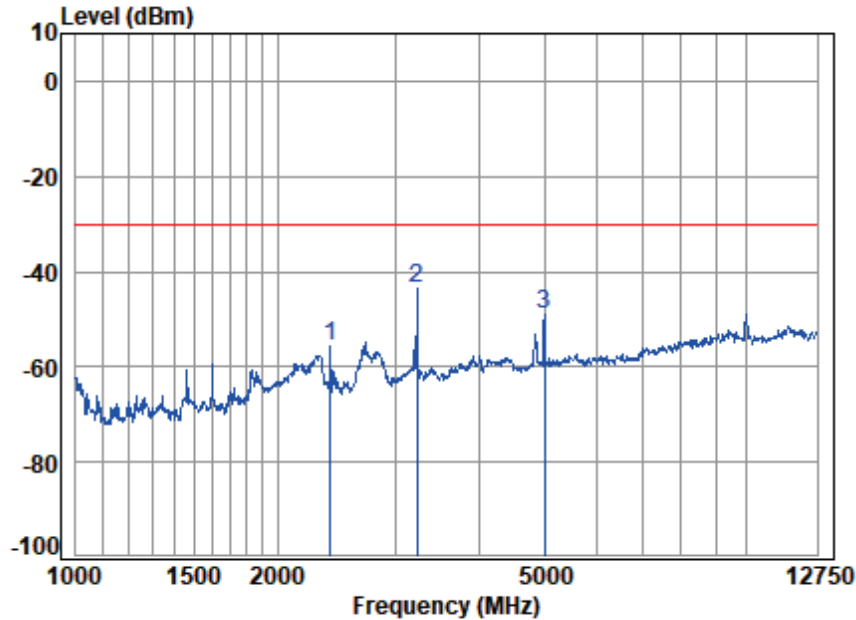
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	2400.47	-57.15	-30.00	-27.15
2	3233.26	-52.02	-30.00	-22.02
3	11603.96	-51.83	-30.00	-21.83



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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
 Job No: 03439AT
 Test mode: 2422 TX RSE
 Note: 2.4G WIFI 11N 40
 Note:

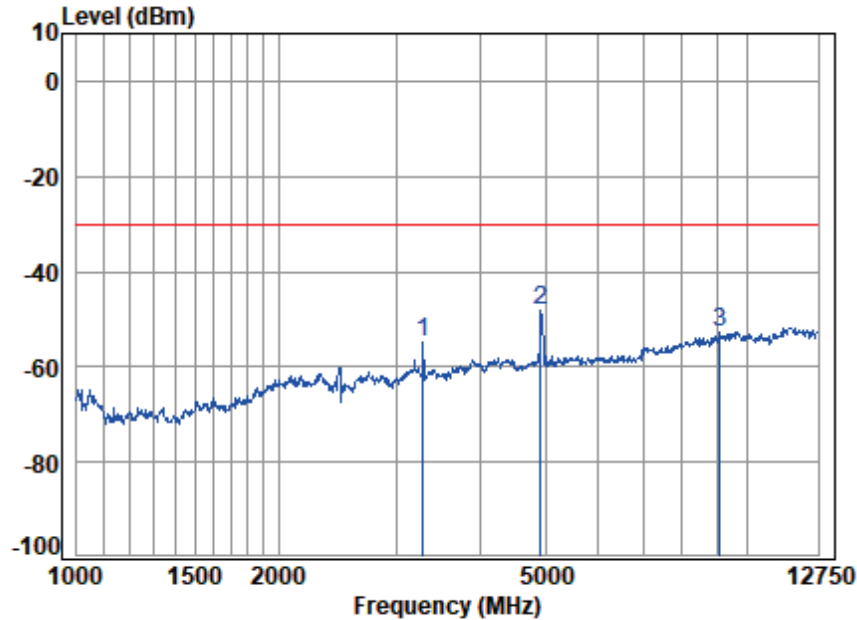
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	2400.47	-55.84	-30.00	-25.84
2	3233.26	-43.37	-30.00	-13.37
3	4996.69	-48.81	-30.00	-18.81



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No: 03439AT

Test mode: 2462 TX RSE

Note: 2.4G WIFI 11N 40

Note:

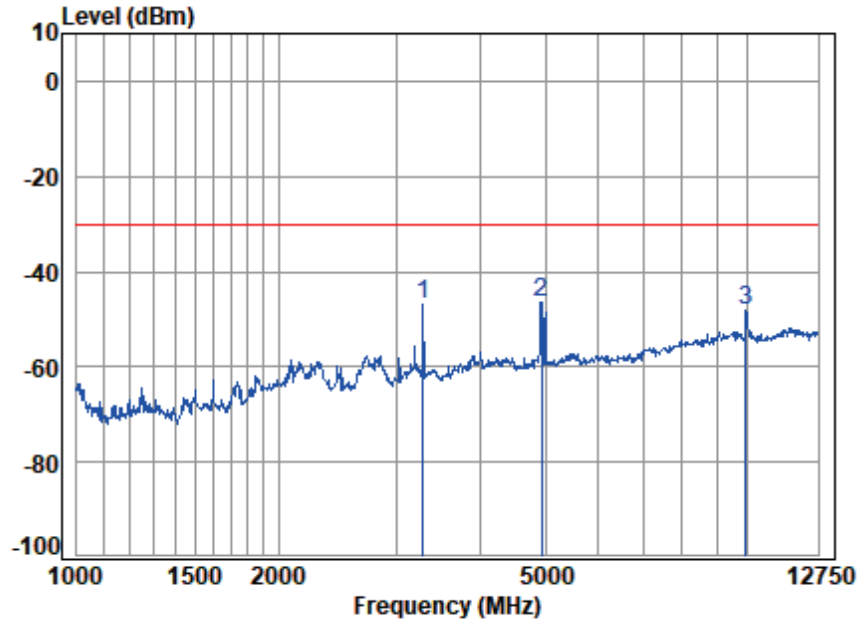
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	3283.02	-54.76	-30.00	-24.76
2	4920.96	-48.22	-30.00	-18.22
3	9111.35	-52.60	-30.00	-22.60



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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
 Job No: 03439AT
 Test mode: 2462 TX RSE
 Note: 2.4G WIFI 11N 40
 Note:

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	3283.02	-46.70	-30.00	-16.70
2	4933.50	-46.29	-30.00	-16.29
3	9960.38	-48.16	-30.00	-18.16



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6.2 Receiver spurious emissions

Test Requirement EN 300 328 Clause 4.3.2.10.3

Test Method: EN 300 328 Clause 5.4.10.2

Measurement Distance: 3m

Limit:

The spurious emissions of the receiver shall not exceed the values in tables in the indicated bands:

Frequency Range	Limit
30 MHz to 1 GHz	2nW(-57dBm)
Above 1GHz	20nW(-47dBm)

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C

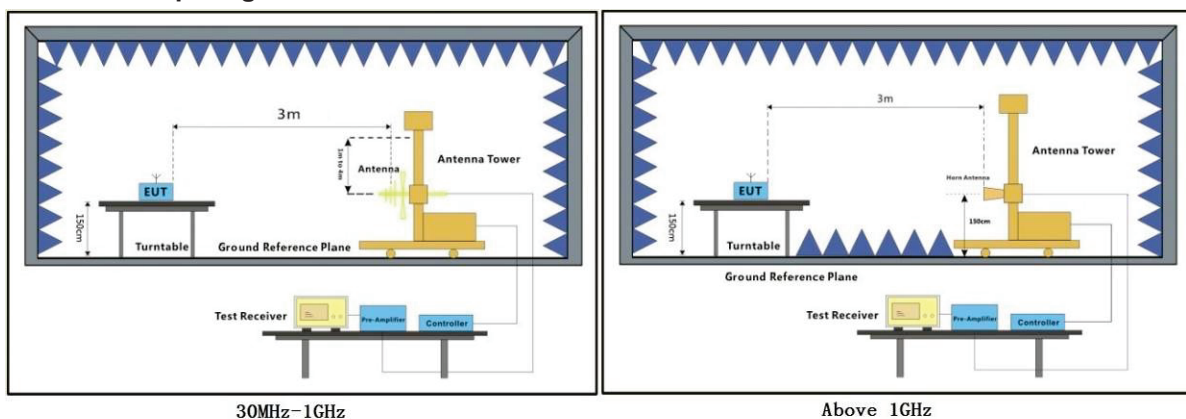
Humidity: 65.0 % RH

Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	RX_Keep the EUT in receiving mode with all modulation types. Only the data of worst case for 20MHz bandwidth and 40MHz bandwidth is recorded in the report.

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

1. Using test software to set up the lowest channel, the middle channel and the highest channel.
2. Scan from 30MHz to 12.75GHz, find the maximum radiation frequency to measure. No Standby Mode apply for the EUT.
3. The technique used to find the Spurious Emissions of the transmitter was a pre-calibration method which is measure the path loss from the measurement antenna to the substitution antenna and subtract this from the signal generator level to reach the measurement result. The method was performed to determine the actual ERP/EIRP emission levels of the EUT.

Test procedure as below:

- 1) The EUT was powered ON and placed on a table in the chamber. The antenna of the transmitter was extended to its maximum length. Receiver mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- 2) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3) The test antenna shall be raised or lowered again, if necessary, through the specified height range until a maximum is obtained. This level shall be recorded.
- 4) This measurement shall be repeated for horizontal and vertical polarization.

Remark:

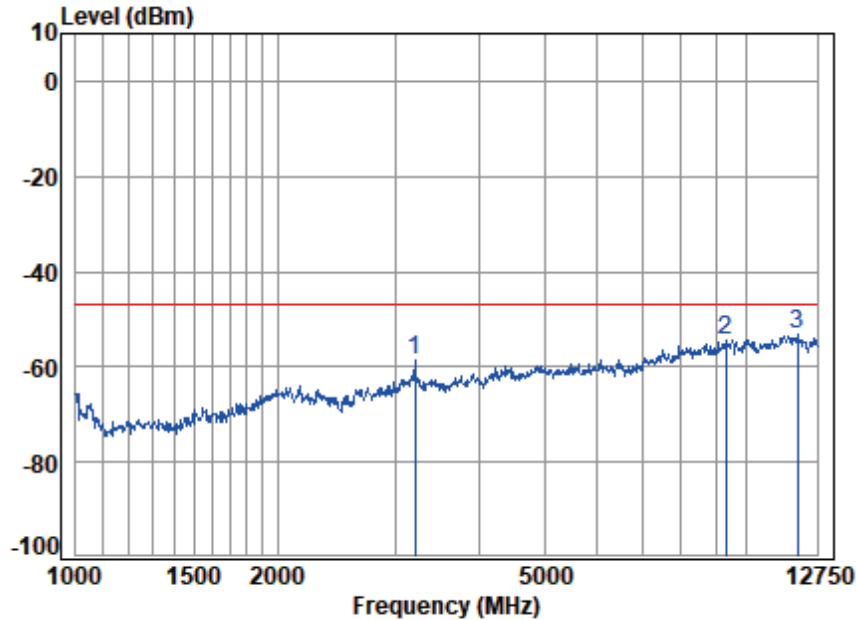
The disturbance below 1GHz was very low and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No: 03439AT

Test mode: 2412 RX RSE

Note: 2.4G WIFI 11B

Note:

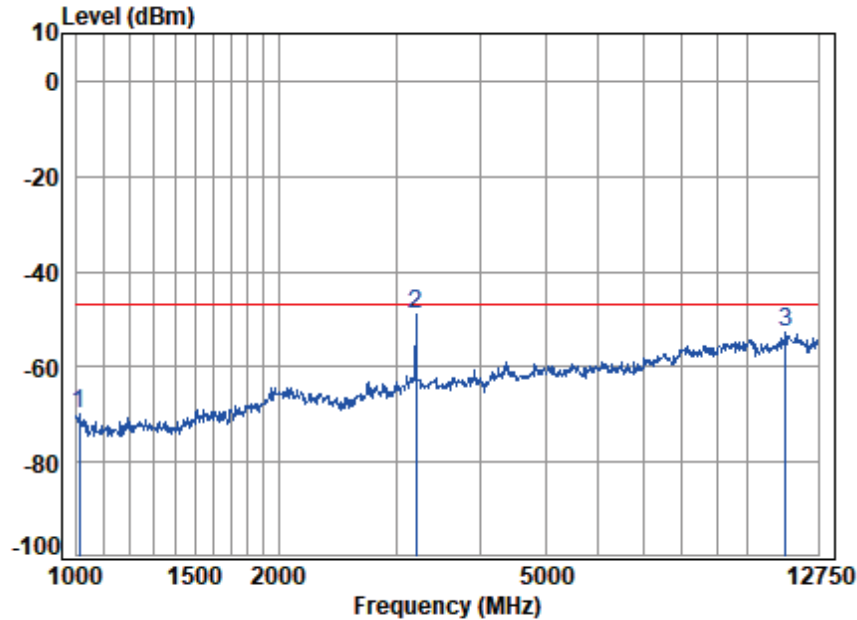
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	3208.66	-58.64	-47.00	-11.64
2	9322.50	-54.28	-47.00	-7.28
3	11933.47	-53.09	-47.00	-6.09



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Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
 Job No: 03439AT
 Test mode: 2412 RX RSE
 Note: 2.4G WIFI 11B
 Note:

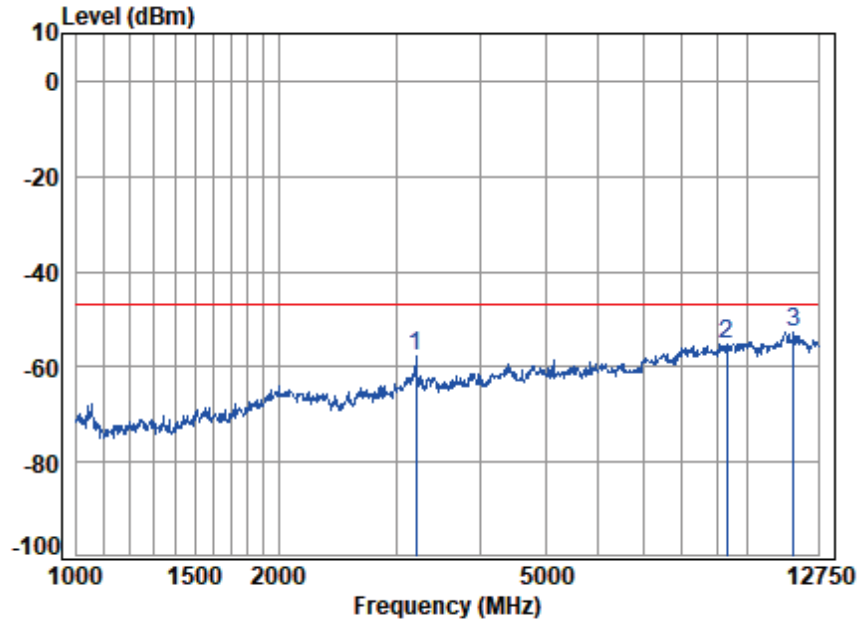
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	1007.67	-69.82	-47.00	-22.82
2	3208.66	-49.03	-47.00	-2.03
3	11399.03	-52.85	-47.00	-5.85



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No: 03439AT

Test mode: 2472 RX RSE

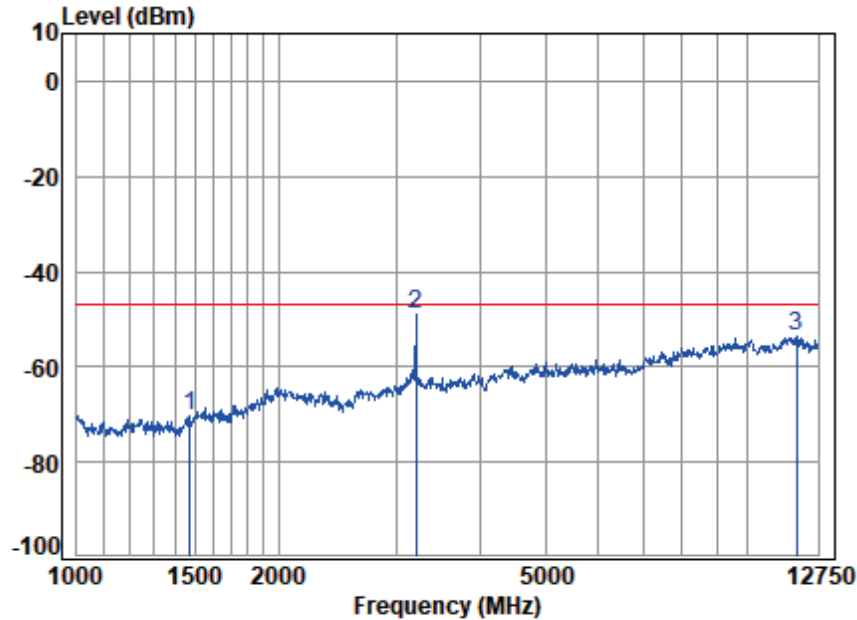
Note: 2.4G WIFI 11B

Note:

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	3208.66	-57.80	-47.00	-10.80
2	9322.50	-55.07	-47.00	-8.07
3	11722.72	-52.67	-47.00	-5.67



Test Mode: 05; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
 Job No: 03439AT
 Test mode: 2472 RX RSE
 Note: 2.4G WIFI 11B
 Note:

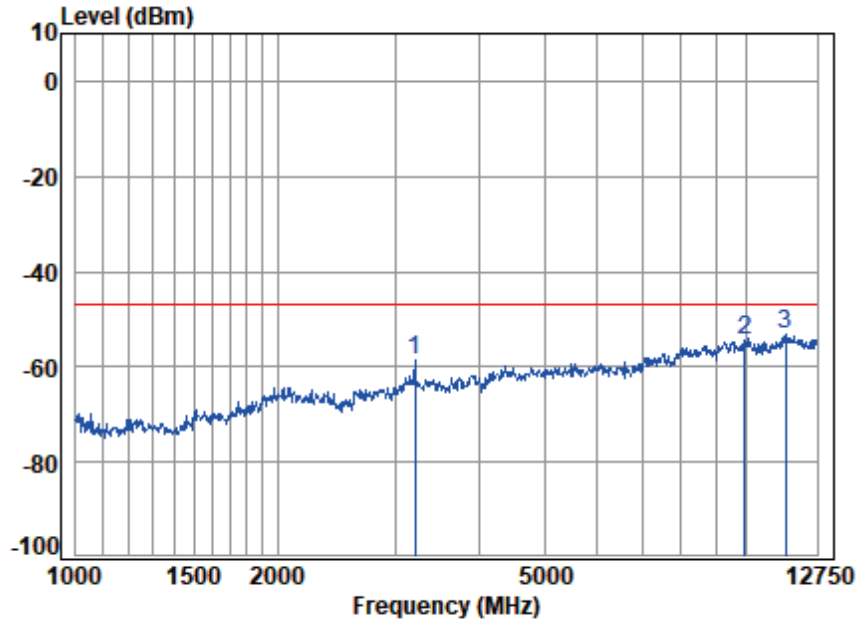
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	1476.19	-70.33	-47.00	-23.33
2	3208.66	-49.08	-47.00	-2.08
3	11842.69	-53.74	-47.00	-6.74



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No: 03439AT

Test mode: 2412 RX RSE

Note: 2.4G WIFI 11N 20

Note:

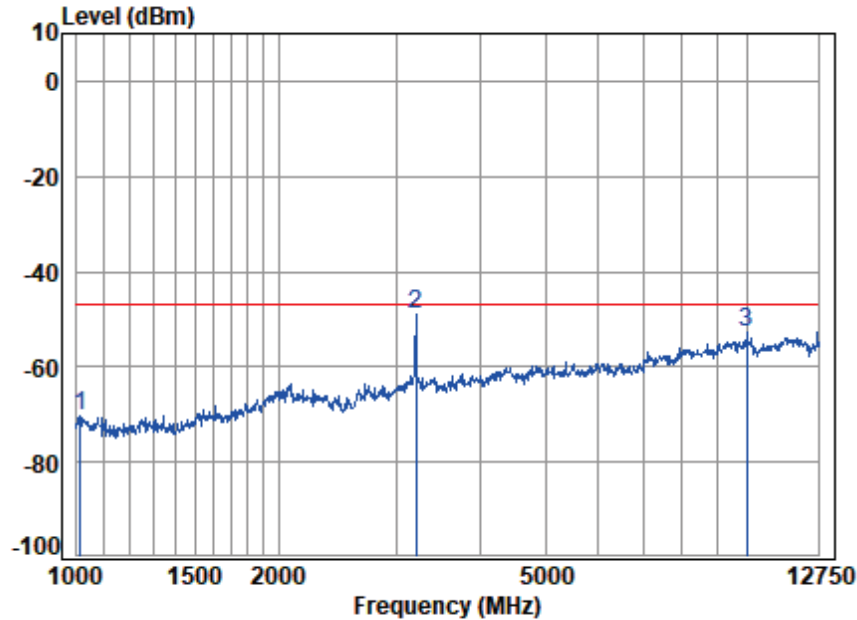
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	3208.66	-58.43	-47.00	-11.43
2	9935.05	-54.52	-47.00	-7.52
3	11428.08	-53.12	-47.00	-6.12



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL
 Job No: 03439AT
 Test mode: 2412 RX RSE
 Note: 2.4G WIFI 11N 20
 Note:

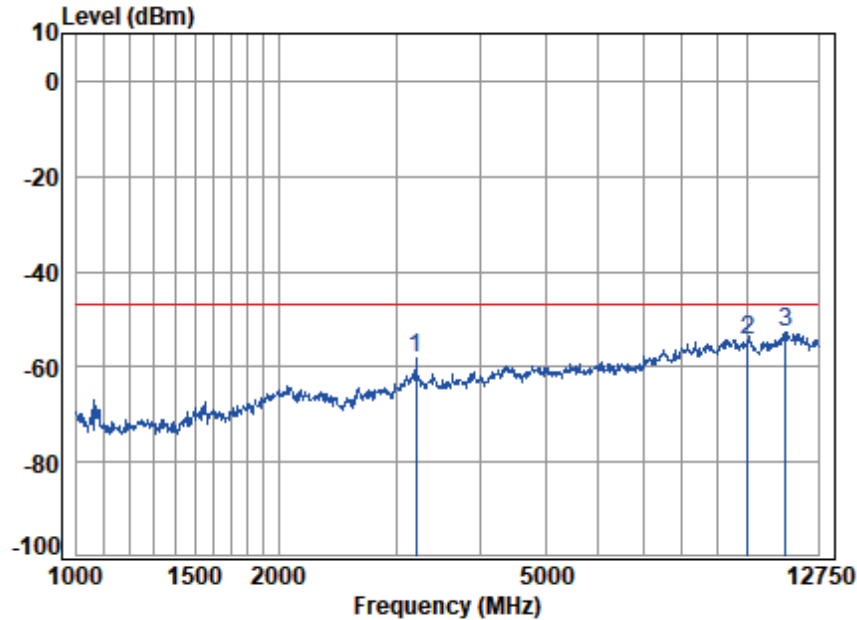
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	1012.81	-70.46	-47.00	-23.46
2	3208.66	-49.18	-47.00	-2.18
3	9985.76	-52.86	-47.00	-5.86



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No: 03439AT

Test mode: 2472 RX RSE

Note: 2.4G WIFI 11N 20

Note:

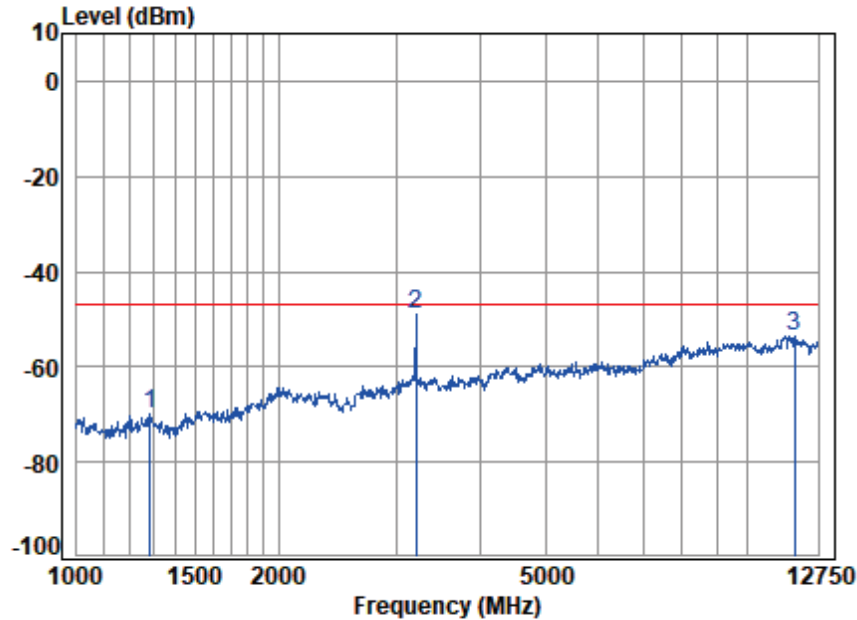
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	3208.66	-58.07	-47.00	-11.07
2	10011.21	-54.50	-47.00	-7.50
3	11399.03	-52.70	-47.00	-5.70



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL
 Job No: 03439AT
 Test mode: 2472 RX RSE
 Note: 2.4G WIFI 11N 20
 Note:

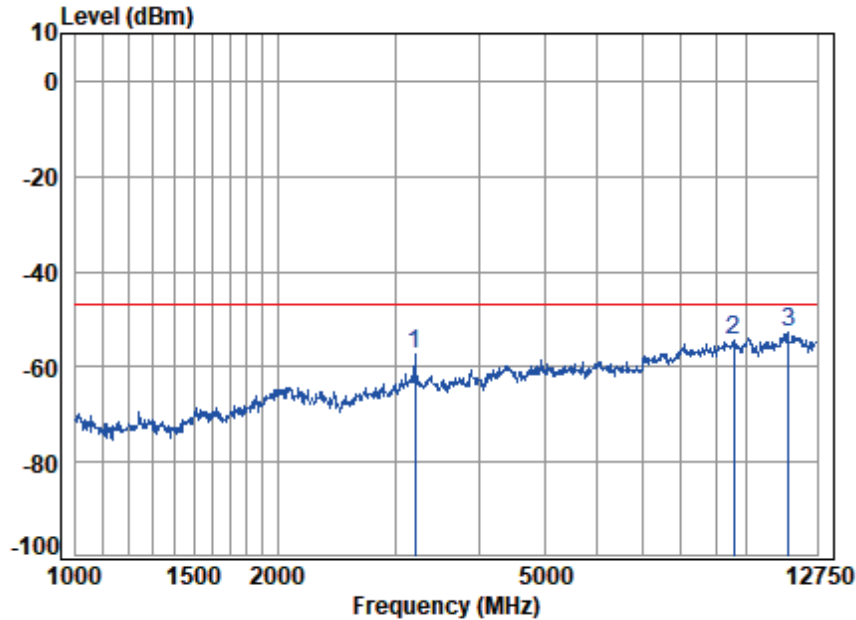
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	1286.61	-69.70	-47.00	-22.70
2	3208.66	-49.01	-47.00	-2.01
3	11752.60	-53.57	-47.00	-6.57



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No: 03439AT

Test mode: 2422 RX RSE

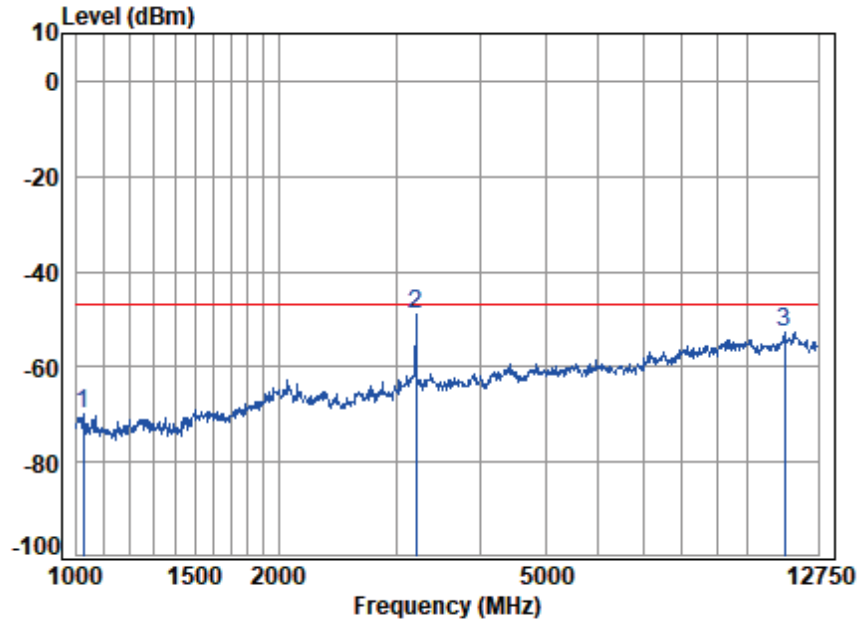
Note: 2.4G WIFI 11N 40

Note:

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	3208.66	-57.35	-47.00	-10.35
2	9562.85	-54.32	-47.00	-7.32
3	11545.04	-52.69	-47.00	-5.69



Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL
 Job No: 03439AT
 Test mode: 2422 RX RSE
 Note: 2.4G WIFI 11N 40
 Note:

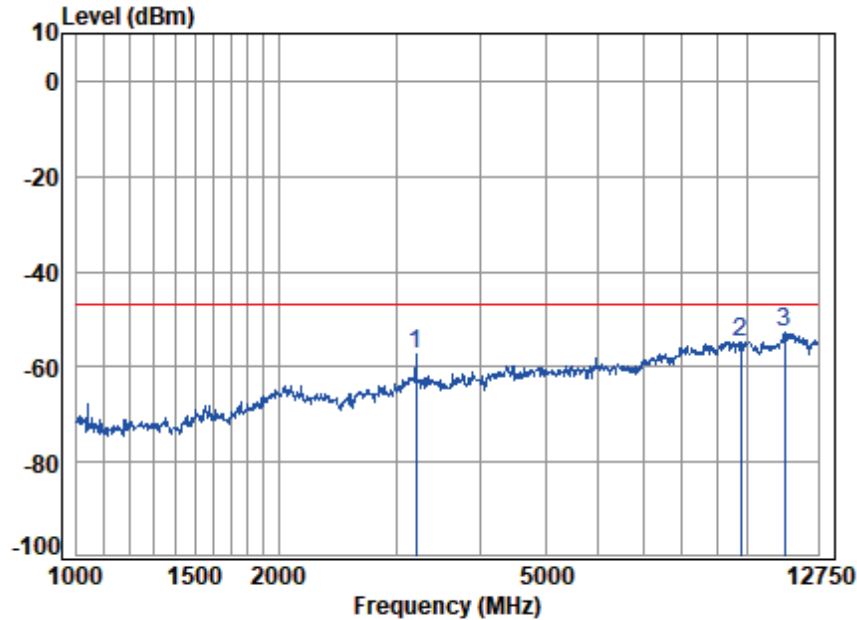
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	1023.17	-69.93	-47.00	-22.93
2	3208.66	-48.82	-47.00	-1.82
3	11370.05	-52.85	-47.00	-5.85



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No: 03439AT

Test mode: 2462 RX RSE

Note: 2.4G WIFI 11N 40

Note:

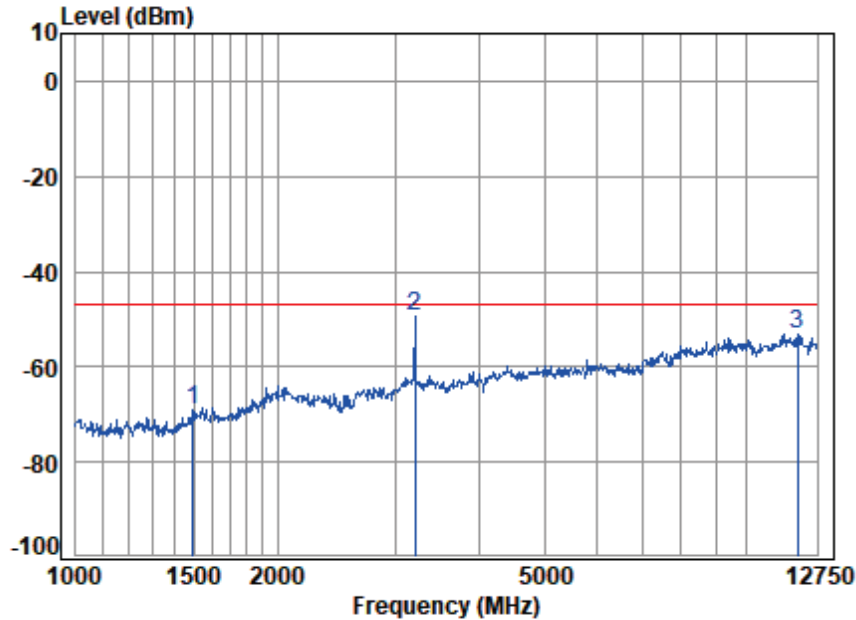
Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	3208.66	-57.54	-47.00	-10.54
2	9784.47	-54.62	-47.00	-7.62
3	11370.05	-52.76	-47.00	-5.76



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL
 Job No: 03439AT
 Test mode: 2462 RX RSE
 Note: 2.4G WIFI 11N 40
 Note:

Marker	Freq. MHz	Level dBm	Limit dBm	Over Limit dB
1	1495.10	-69.15	-47.00	-22.15
2	3208.66	-49.27	-47.00	-2.27
3	11903.14	-53.10	-47.00	-6.10



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6.3 RF Output Power

Test Requirement EN 300 328 Clause 4.3.2.2.3
 Test Method: EN 300 328 Clause 5.4.2.2.1.2

Limit:

Frequency band(MHz)	Limit
2400-2483.5	20dBm/(100mw) (e.i.r.p)

6.3.1 E.U.T. Operation

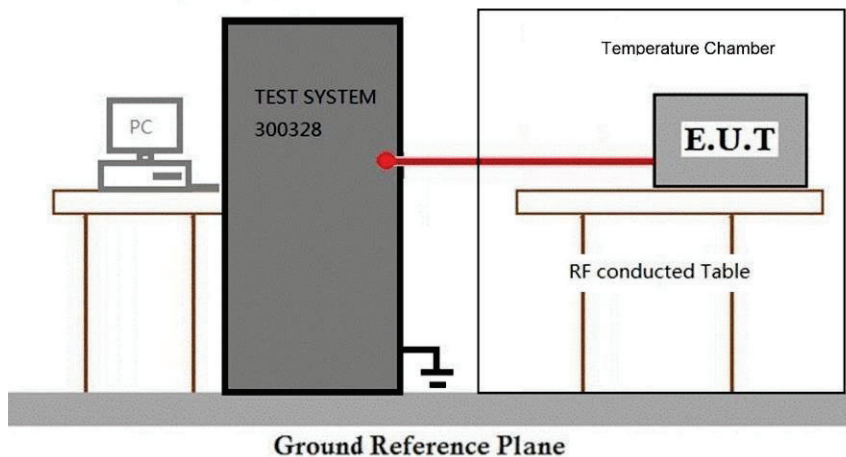
Operating Environment:

Temperature: 24.5 °C Humidity: 47.6 % RH Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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). Only the data of worst case is recorded in the report.

6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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6.4 Power Spectral Density

Test Requirement EN 300 328 Clause 4.3.2.3.3

Test Method: EN 300 328 Clause 5.4.3.2.1

Limit:

Frequency band(MHz)	Limit
2400-2483.5	≤10dBm per MHz

6.4.1 E.U.T. Operation

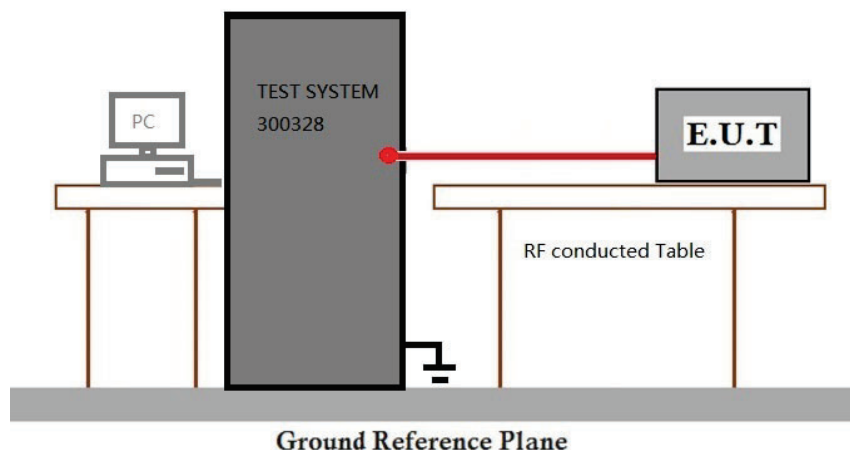
Operating Environment:

Temperature: 24.6 °C Humidity: 47.5 % RH Atmospheric Pressure: 1020 mbar

6.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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). Only the data of worst case is recorded in the report.

6.4.3 Test Setup Diagram



6.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details

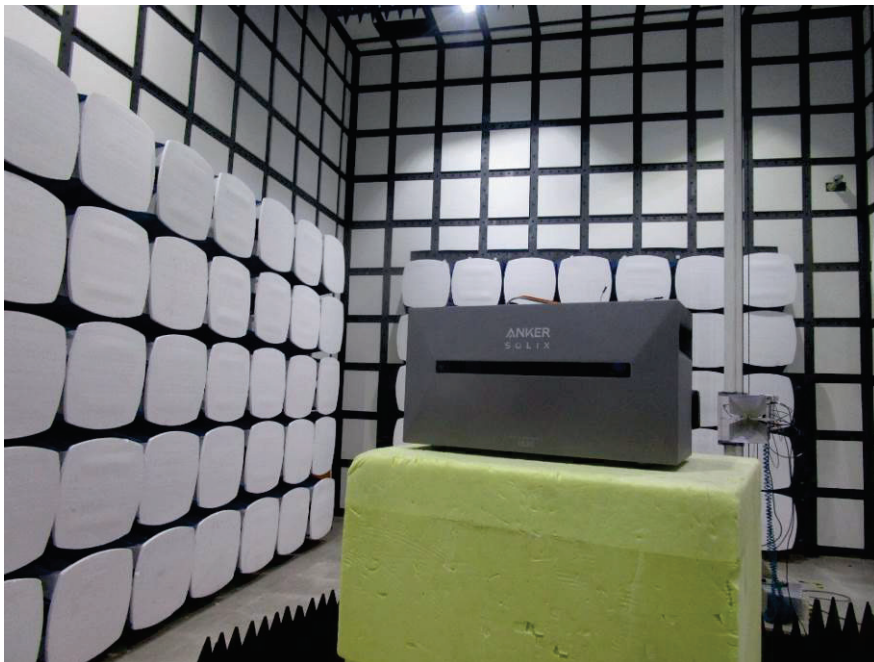


7 Test Setup Photo

Transmitter unwanted emissions in the spurious domain



Receiver spurious emissions



8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SZCR2409003439AT



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9 Appendix

1. RF Output Power, Duty Cycle, Tx-sequence, Tx-gap, Medium Utilization

1.1 Test Result

1.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	ANT	Gain (dBi)	Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
NTNV	802.11b	SISO	2412	1	5.64	12.33	17.97	<=20	Pass
			2442	1	5.64	12.24	17.88	<=20	Pass
			2472	1	5.64	12.81	18.45	<=20	Pass
	802.11g	SISO	2412	1	5.64	12.72	18.36	<=20	Pass
			2442	1	5.64	12.59	18.23	<=20	Pass
			2472	1	5.64	13.08	18.72	<=20	Pass
	802.11n (HT20)	SISO	2412	1	5.64	12.80	18.44	<=20	Pass
			2442	1	5.64	12.69	18.33	<=20	Pass
			2472	1	5.64	13.14	18.78	<=20	Pass
	802.11n (HT40)	SISO	2422	1	5.64	12.66	18.30	<=20	Pass
			2442	1	5.64	12.43	18.07	<=20	Pass
			2462	1	5.64	12.79	18.43	<=20	Pass
HTNV	802.11b	SISO	2412	1	5.64	12.29	17.93	<=20	Pass
			2442	1	5.64	12.23	17.87	<=20	Pass
			2472	1	5.64	12.81	18.45	<=20	Pass
	802.11g	SISO	2412	1	5.64	12.69	18.33	<=20	Pass
			2442	1	5.64	12.59	18.23	<=20	Pass
			2472	1	5.64	13.10	18.74	<=20	Pass
	802.11n (HT20)	SISO	2412	1	5.64	12.79	18.43	<=20	Pass
			2442	1	5.64	12.68	18.32	<=20	Pass
			2472	1	5.64	13.14	18.78	<=20	Pass
	802.11n (HT40)	SISO	2422	1	5.64	12.65	18.29	<=20	Pass
			2442	1	5.64	12.42	18.06	<=20	Pass
			2462	1	5.64	12.78	18.42	<=20	Pass
LTNV	802.11b	SISO	2412	1	5.64	12.30	17.94	<=20	Pass
			2442	1	5.64	12.24	17.88	<=20	Pass
			2472	1	5.64	12.79	18.43	<=20	Pass
	802.11g	SISO	2412	1	5.64	12.71	18.35	<=20	Pass
			2442	1	5.64	12.61	18.25	<=20	Pass



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SZEMC-TRF-01 Rev. A/1

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			2472	1	5.64	13.08	18.72	<=20	Pass
	802.11n (HT20)	SISO	2412	1	5.64	12.77	18.41	<=20	Pass
			2442	1	5.64	12.68	18.32	<=20	Pass
			2472	1	5.64	13.15	18.79	<=20	Pass
	802.11n (HT40)	SISO	2422	1	5.64	12.64	18.28	<=20	Pass
			2442	1	5.64	12.42	18.06	<=20	Pass
			2462	1	5.64	12.79	18.43	<=20	Pass

Note1: E.I.R.P = Measured Power + Antenna Gain

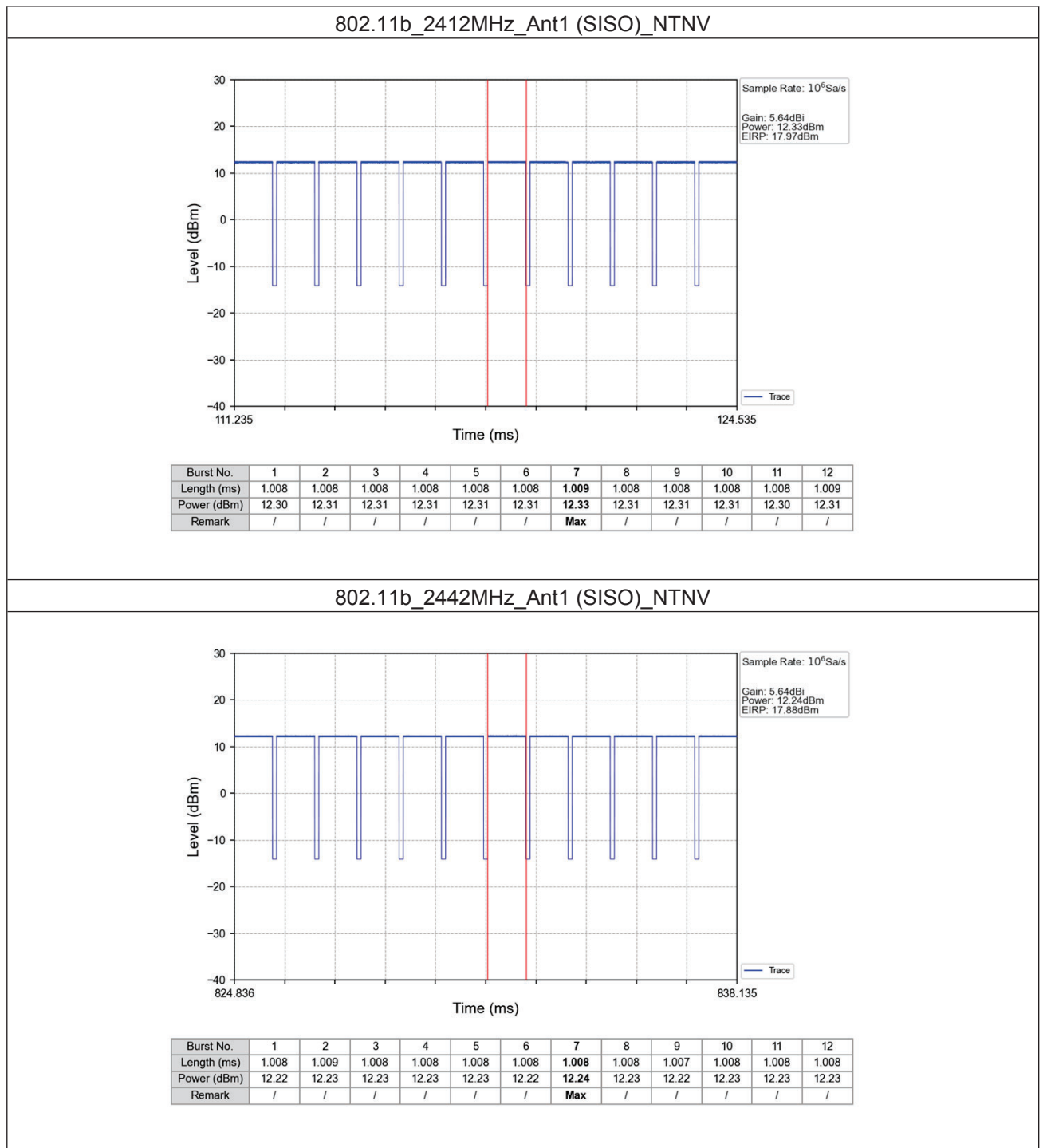


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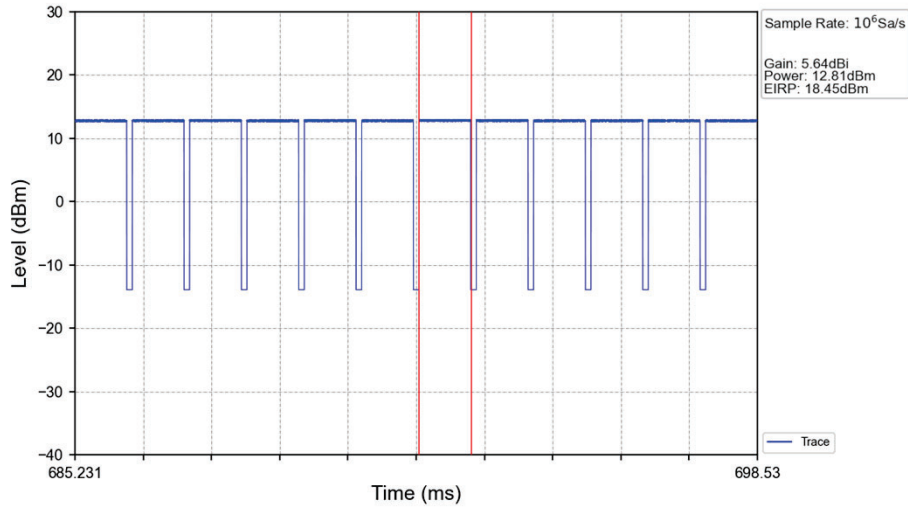
1.2 Test Graph

1.2.1 Power



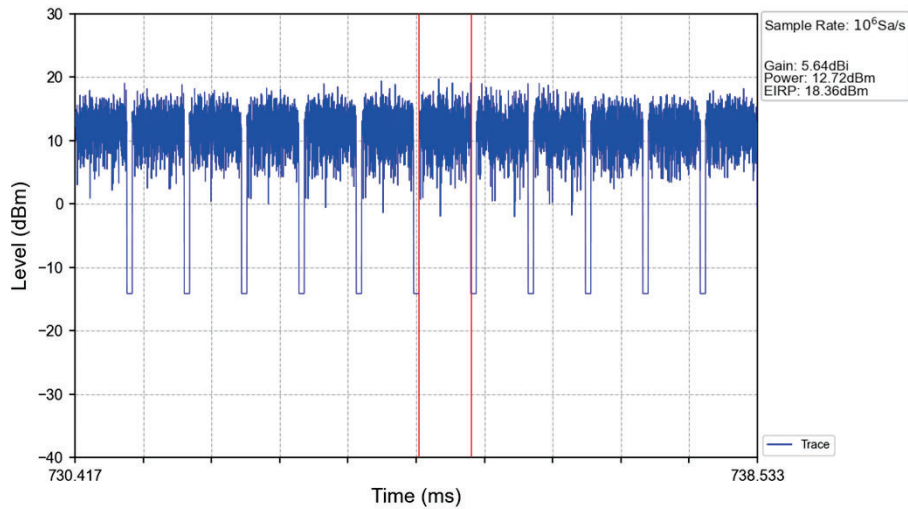
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802.11b_2472MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	1.008	1.007	1.008	1.008	1.008	1.008	1.008	1.009	1.009	1.008	1.008	1.008
Power (dBm)	12.78	12.79	12.81	12.79	12.79	12.79	12.81	12.80	12.79	12.79	12.79	12.78
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

802.11g_2412MHz_Ant1 (SISO)_NTNV

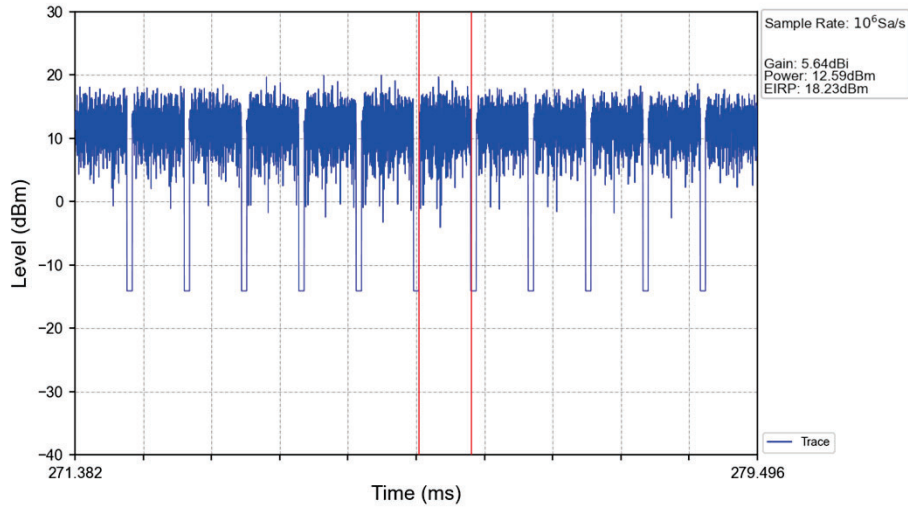


Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.617	0.617	0.617	0.618	0.618	0.618	0.617	0.617	0.617	0.617	0.617	0.617
Power (dBm)	12.56	12.56	12.67	12.62	12.62	12.64	12.72	12.47	12.47	12.38	12.36	12.55
Remark	/	/	/	/	/	/	Max	/	/	/	/	/



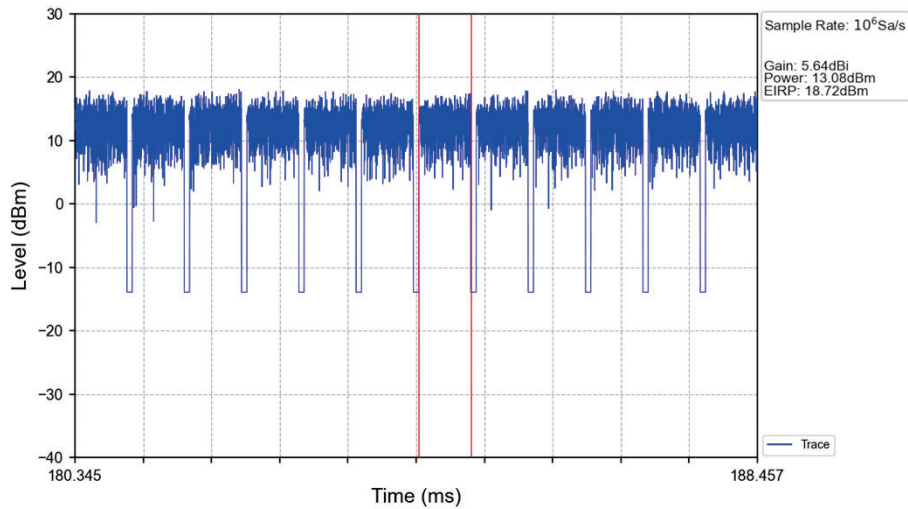
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802.11g_2442MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.617	0.617	0.617	0.618	0.618	0.618	0.617	0.617	0.617	0.617	0.617	0.617
Power (dBm)	12.44	12.42	12.46	12.54	12.56	12.56	12.59	12.37	12.38	12.39	12.41	12.32
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

802.11g_2472MHz_Ant1 (SISO)_NTNV



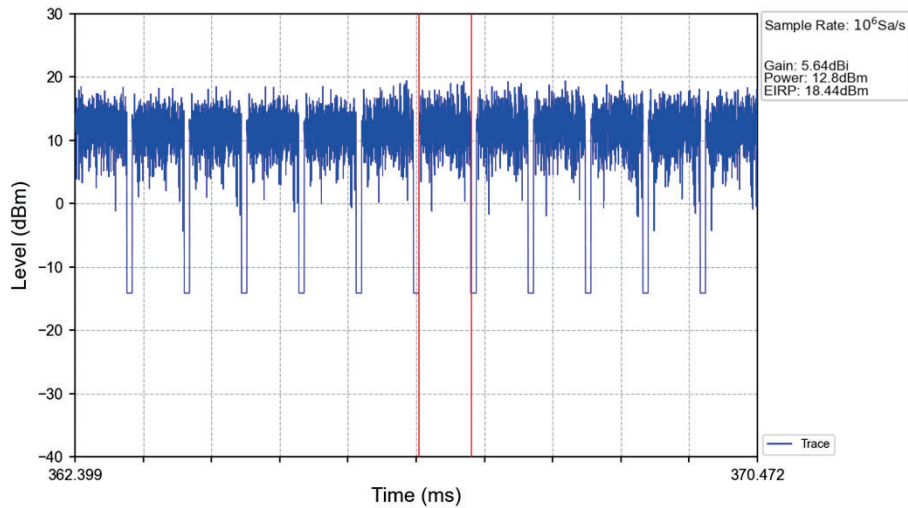
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.617	0.618	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.618	0.618	0.617
Power (dBm)	12.83	12.88	13.05	12.87	12.98	12.85	13.08	12.93	13.01	12.93	12.83	12.84
Remark	/	/	/	/	/	/	Max	/	/	/	/	/



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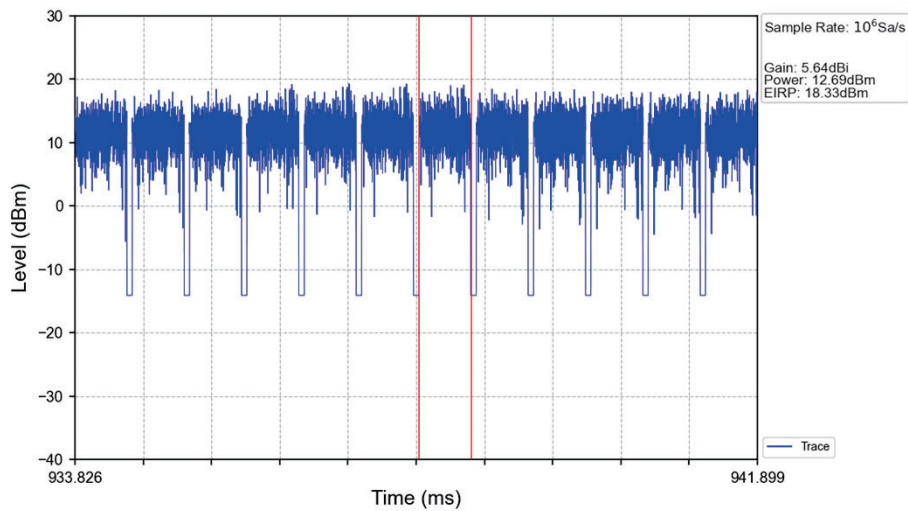
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.613	0.614	0.614	0.614	0.614	0.613	0.613	0.613	0.613	0.613	0.614	0.614
Power (dBm)	12.55	12.25	12.25	12.28	12.28	12.59	12.80	12.78	12.77	12.66	12.44	12.44
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

802.11n(HT20)_2442MHz_Ant1 (SISO)_NTNV



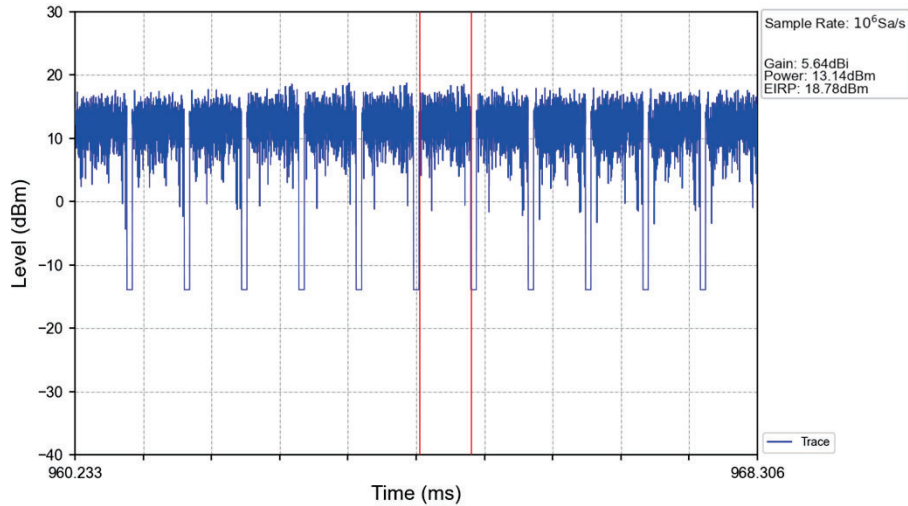
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.614	0.614	0.614	0.613	0.613	0.613	0.613	0.613	0.614	0.614	0.614	0.614
Power (dBm)	12.17	12.14	12.14	12.58	12.65	12.67	12.69	12.53	12.33	12.33	12.33	12.33
Remark	/	/	/	/	/	/	Max	/	/	/	/	/



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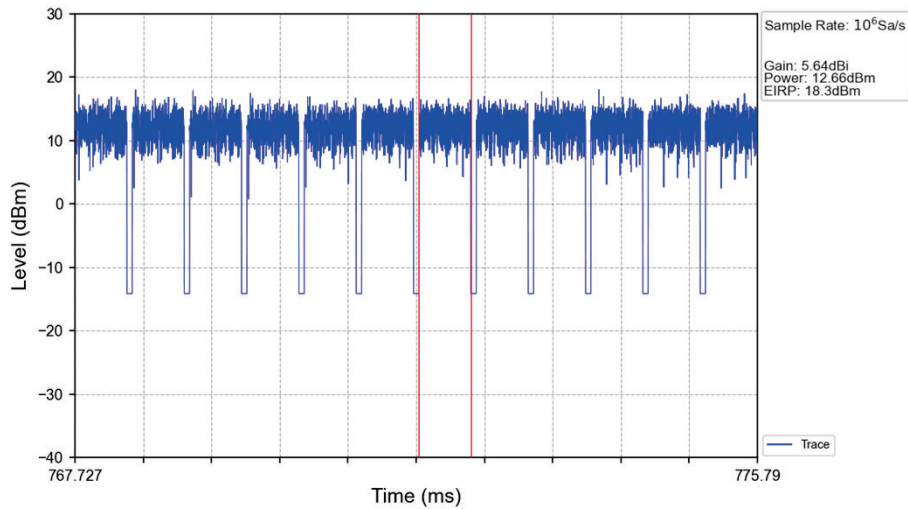
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.614	0.614	0.614	0.613	0.613	0.613	0.613	0.613	0.614	0.614	0.614	0.613
Power (dBm)	12.67	12.67	12.68	13.07	13.10	13.13	13.14	13.04	12.83	12.82	12.82	12.75
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



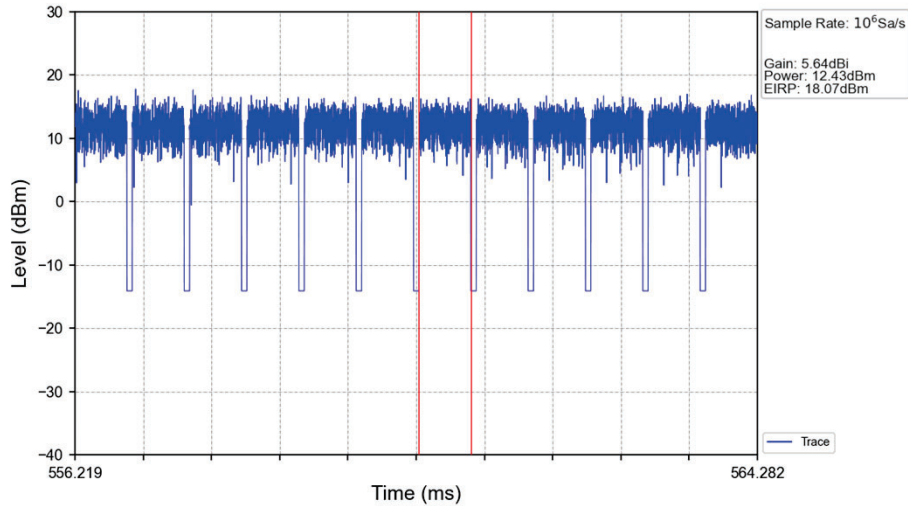
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.614	0.613
Power (dBm)	12.46	12.45	12.42	12.40	12.40	12.63	12.66	12.64	12.61	12.55	12.56	12.58
Remark	/	/	/	/	/	/	Max	/	/	/	/	/



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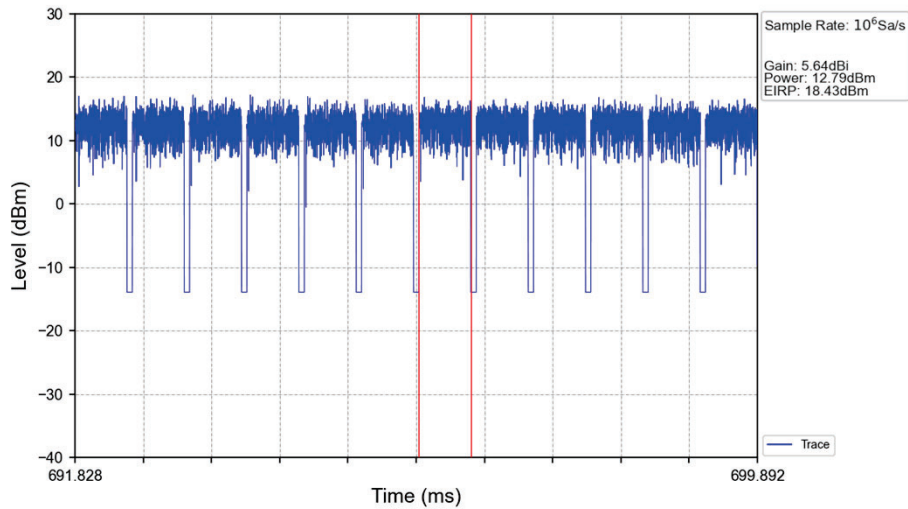
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802.11n(HT40)_2442MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.614	0.614	0.614	0.613
Power (dBm)	12.25	12.23	12.26	12.32	12.37	12.40	12.43	12.27	12.25	12.29	12.33	12.32
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



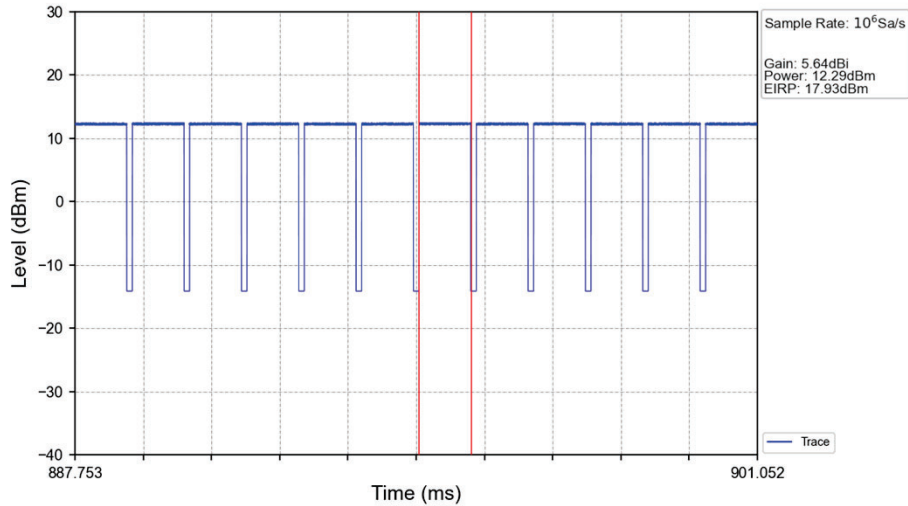
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.614	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.614
Power (dBm)	12.70	12.64	12.62	12.60	12.57	12.56	12.79	12.78	12.77	12.74	12.69	12.69
Remark	/	/	/	/	/	/	Max	/	/	/	/	/



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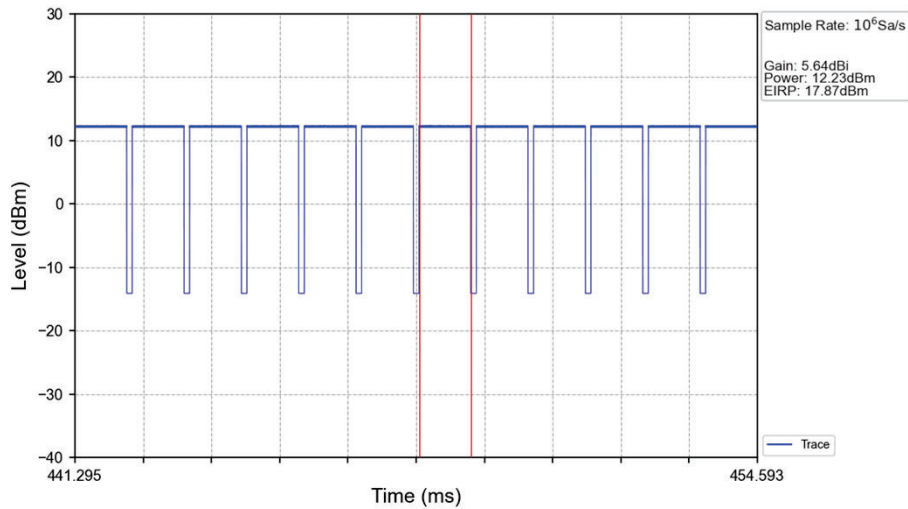
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802.11b_2412MHz_Ant1 (SISO)_HTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	1.008	1.008	1.009	1.009	1.008	1.008	1.008	1.008	1.008	1.007	1.008	1.008
Power (dBm)	12.27	12.29	12.28	12.28	12.27	12.28	12.29	12.27	12.28	12.27	12.27	12.27
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

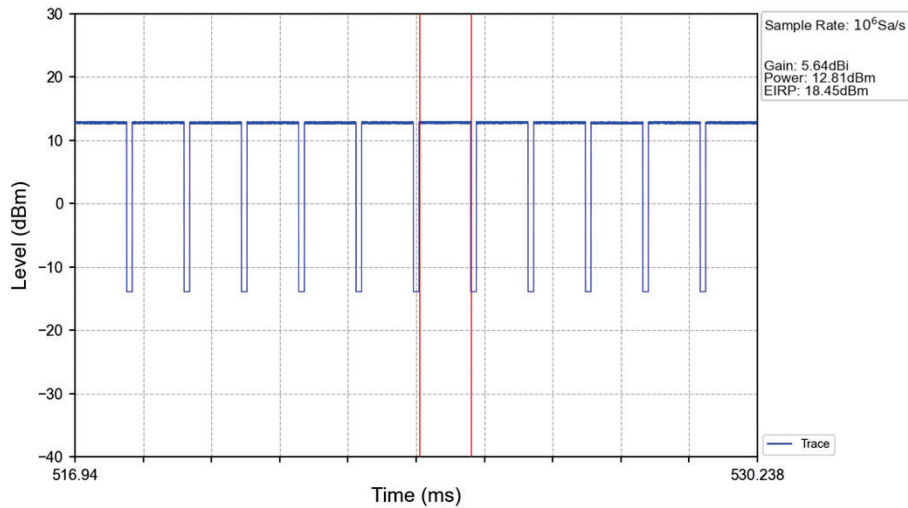
802.11b_2442MHz_Ant1 (SISO)_HTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	1.008	1.009	1.008	1.008	1.008	1.008	1.008	1.007	1.008	1.008	1.008	1.008
Power (dBm)	12.22	12.22	12.23	12.23	12.23	12.21	12.23	12.21	12.22	12.21	12.22	12.21
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

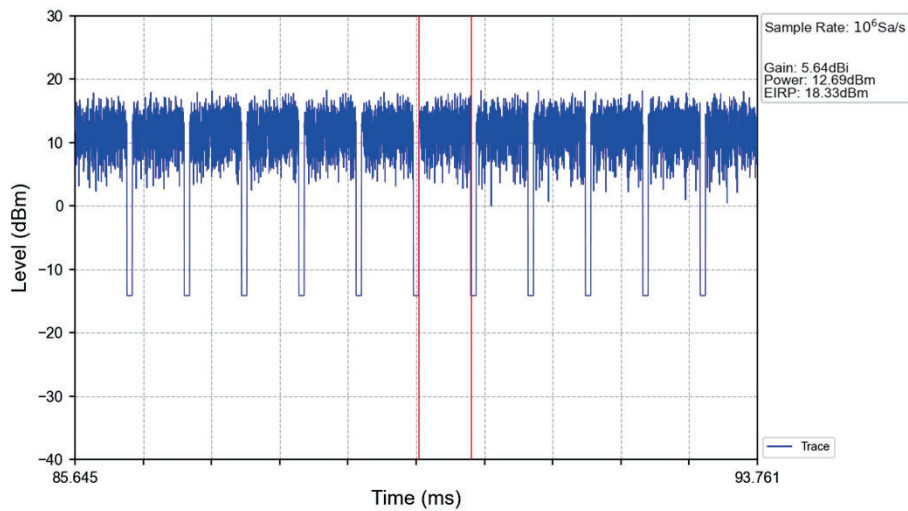


802.11b_2472MHz_Ant1 (SISO)_HTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	1.008	1.008	1.008	1.008	1.007	1.008	1.008	1.008	1.008	1.008	1.009	1.008
Power (dBm)	12.79	12.79	12.78	12.78	12.78	12.79	12.81	12.80	12.80	12.76	12.79	12.79
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

802.11g_2412MHz_Ant1 (SISO)_HTNV



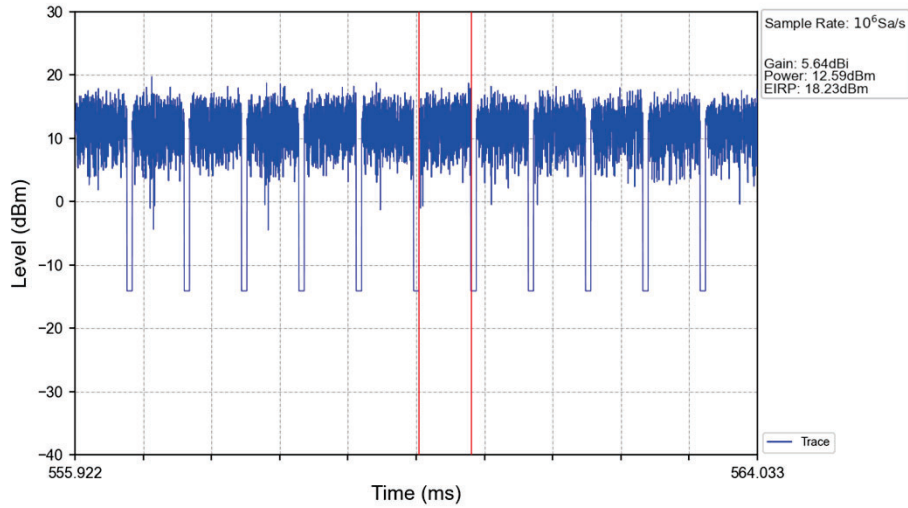
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.617	0.617	0.617	0.618	0.618	0.618	0.617	0.617	0.617	0.617	0.617	0.618
Power (dBm)	12.36	12.38	12.50	12.59	12.58	12.57	12.69	12.60	12.58	12.58	12.59	12.39
Remark	/	/	/	/	/	/	Max	/	/	/	/	/



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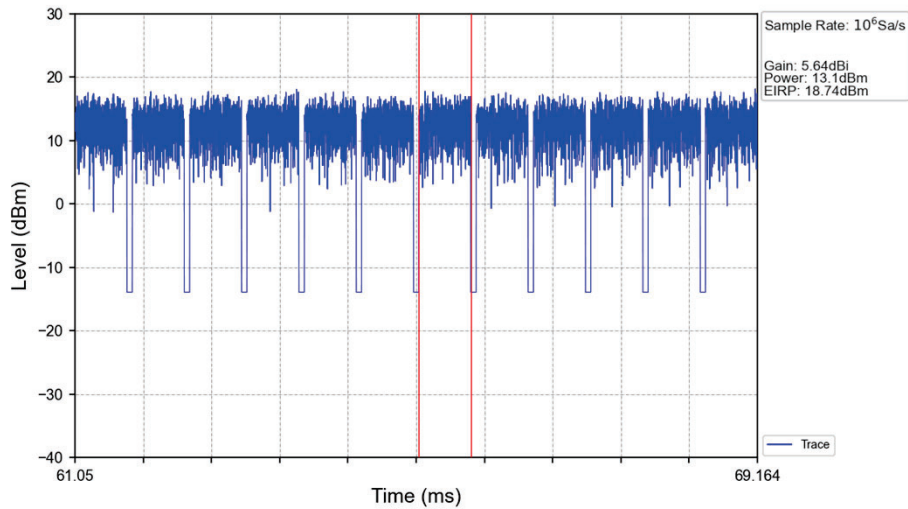
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802.11g_2442MHz_Ant1 (SISO)_HTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.618	0.617	0.617	0.617
Power (dBm)	12.43	12.43	12.42	12.32	12.53	12.30	12.59	12.45	12.46	12.42	12.34	12.48
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

802.11g_2472MHz_Ant1 (SISO)_HTNV



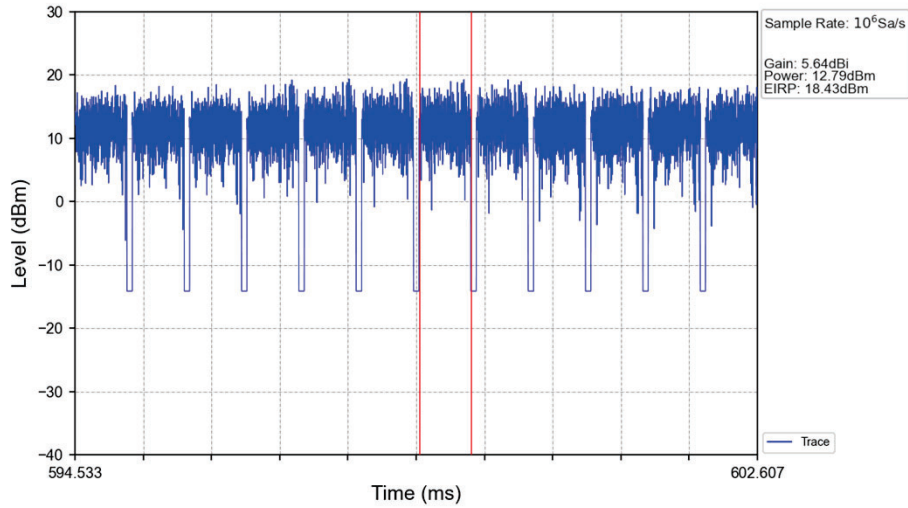
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.618	0.618	0.618	0.617
Power (dBm)	12.81	12.78	12.83	12.93	12.83	12.78	13.10	12.92	12.82	12.81	12.80	12.87
Remark	/	/	/	/	/	/	Max	/	/	/	/	/



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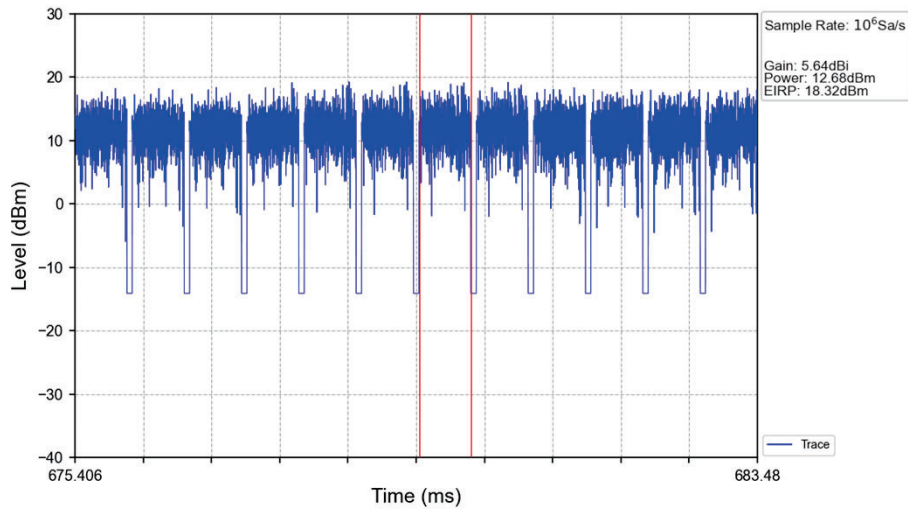
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802.11n(HT20)_2412MHz_Ant1 (SISO)_HTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.614	0.614	0.614	0.613	0.613	0.613	0.613	0.613	0.613	0.614	0.614	0.614
Power (dBm)	12.28	12.24	12.24	12.40	12.74	12.76	12.79	12.77	12.43	12.43	12.43	12.43
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

802.11n(HT20)_2442MHz_Ant1 (SISO)_HTNV



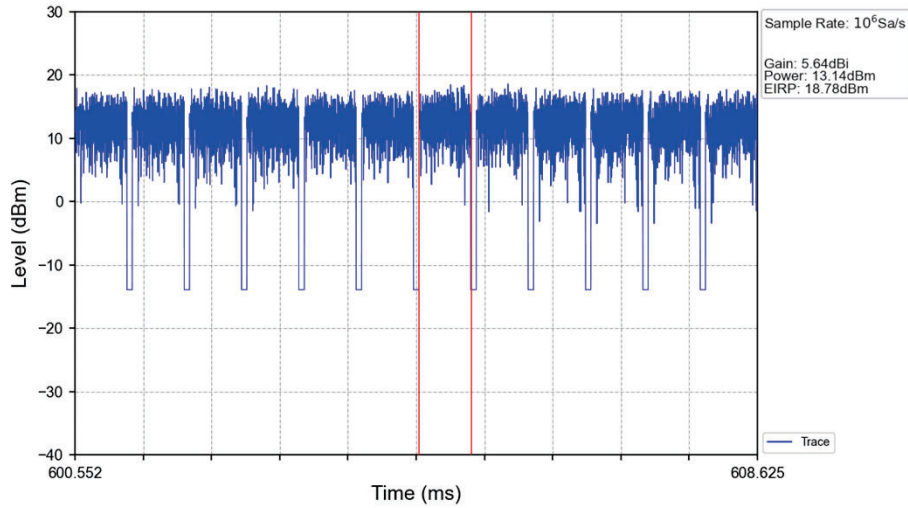
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.614	0.614	0.614	0.613	0.613	0.613	0.613	0.613	0.613	0.614	0.614	0.614
Power (dBm)	12.16	12.13	12.13	12.28	12.63	12.66	12.68	12.67	12.45	12.33	12.32	12.32
Remark	/	/	/	/	/	/	Max	/	/	/	/	/



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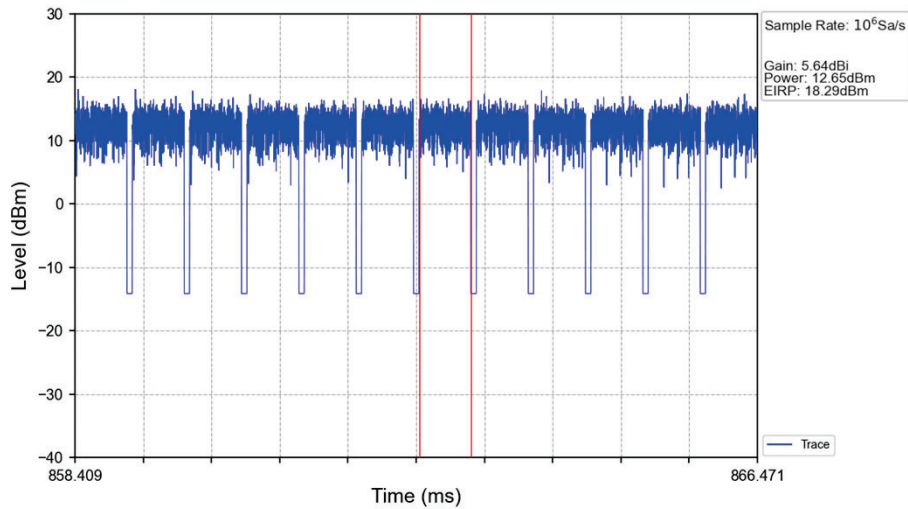
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802.11n(HT20)_2472MHz_Ant1 (SISO)_HTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.614	0.614	0.614	0.614	0.614	0.614	0.613	0.613	0.614	0.614	0.614	0.614
Power (dBm)	12.79	12.82	12.84	12.82	12.85	12.87	13.14	13.10	12.80	12.80	12.80	12.79
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

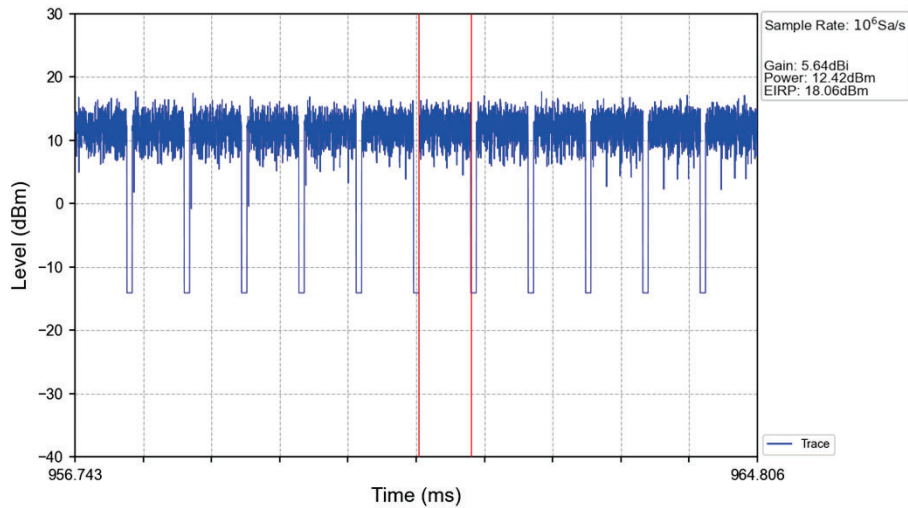
802.11n(HT40)_2422MHz_Ant1 (SISO)_HTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.614	0.614	0.614	0.613	0.613	0.613	0.613	0.613	0.613	0.614	0.613	0.613
Power (dBm)	12.58	12.55	12.52	12.55	12.60	12.63	12.65	12.62	12.54	12.53	12.57	12.57
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

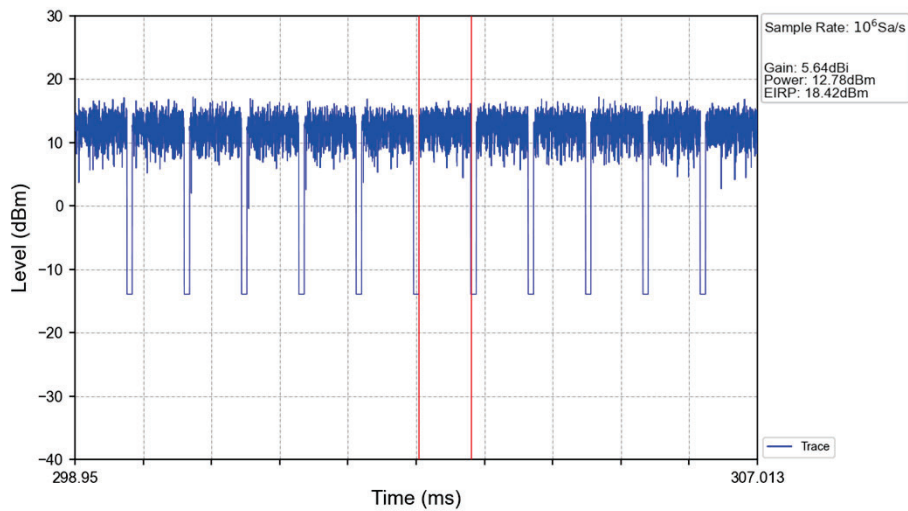


802.11n(HT40)_2442MHz_Ant1 (SISO)_HTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613
Power (dBm)	12.23	12.21	12.18	12.16	12.19	12.41	12.42	12.39	12.36	12.30	12.34	12.35
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

802.11n(HT40)_2462MHz_Ant1 (SISO)_HTNV



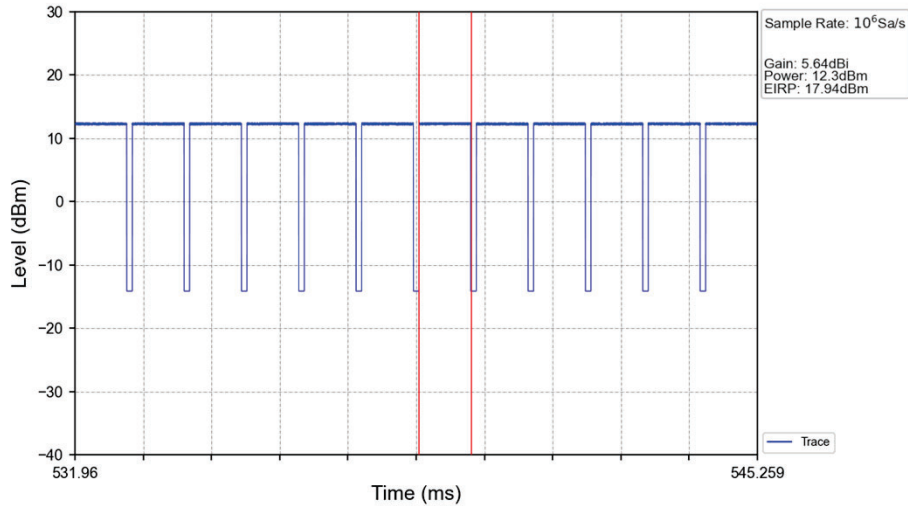
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.614	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613
Power (dBm)	12.73	12.61	12.61	12.58	12.57	12.57	12.78	12.78	12.74	12.71	12.69	12.74
Remark	/	/	/	/	/	/	Max	/	/	/	/	/



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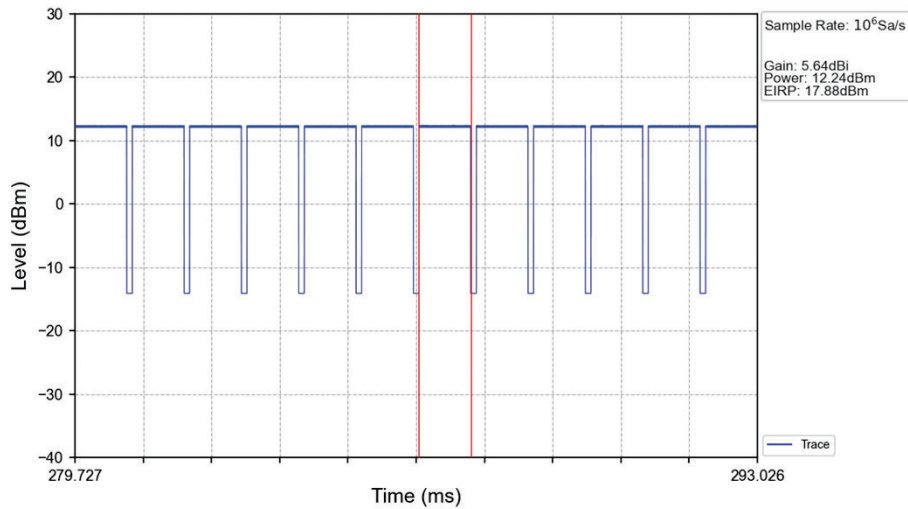
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802.11b_2412MHz_Ant1 (SISO)_LTV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	1.008	1.008	1.009	1.009	1.008	1.008	1.008	1.008	1.009	1.008	1.008	1.008
Power (dBm)	12.28	12.28	12.29	12.29	12.28	12.29	12.30	12.28	12.29	12.28	12.29	12.29
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

802.11b_2442MHz_Ant1 (SISO)_LTV



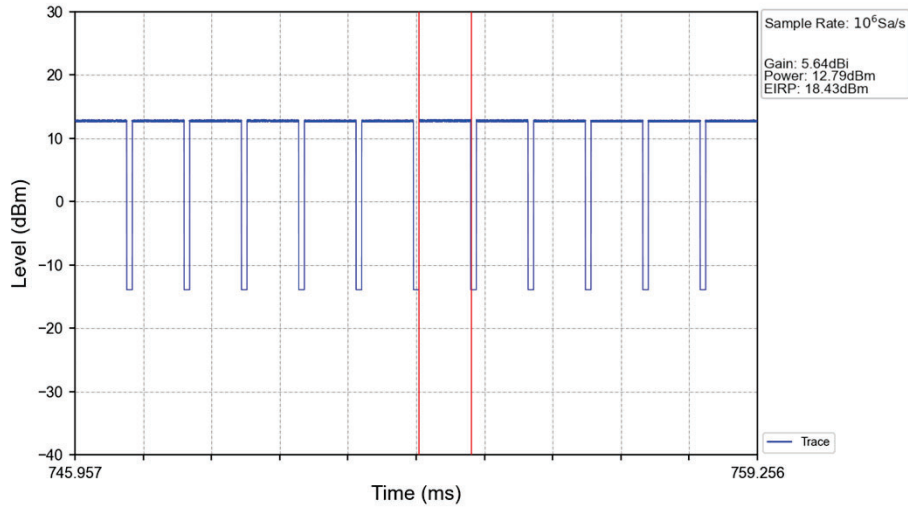
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.007	1.008	1.008	1.008	1.008
Power (dBm)	12.22	12.22	12.22	12.22	12.21	12.22	12.24	12.23	12.22	12.22	12.23	12.22
Remark	/	/	/	/	/	/	Max	/	/	/	/	/



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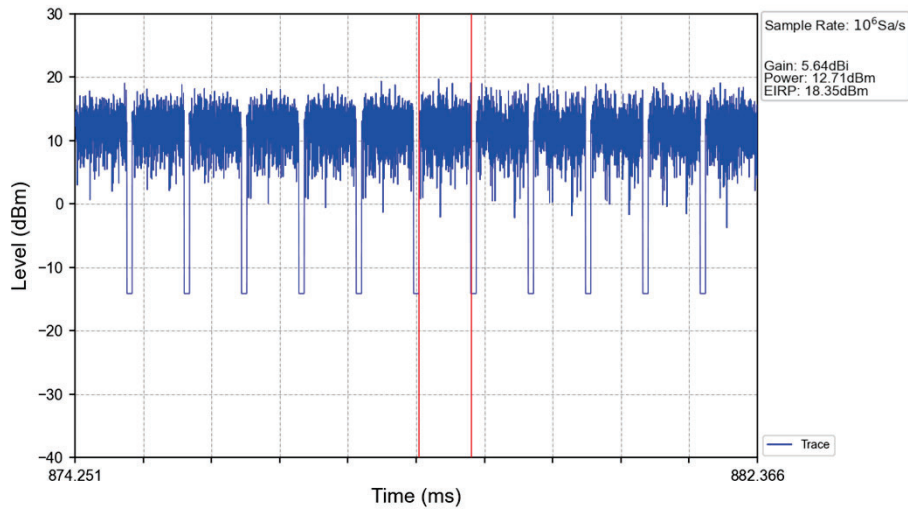
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802.11b_2472MHz_Ant1 (SISO)_LTV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.008	1.007
Power (dBm)	12.77	12.77	12.77	12.78	12.76	12.76	12.79	12.78	12.76	12.75	12.75	12.76
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

802.11g_2412MHz_Ant1 (SISO)_LTV



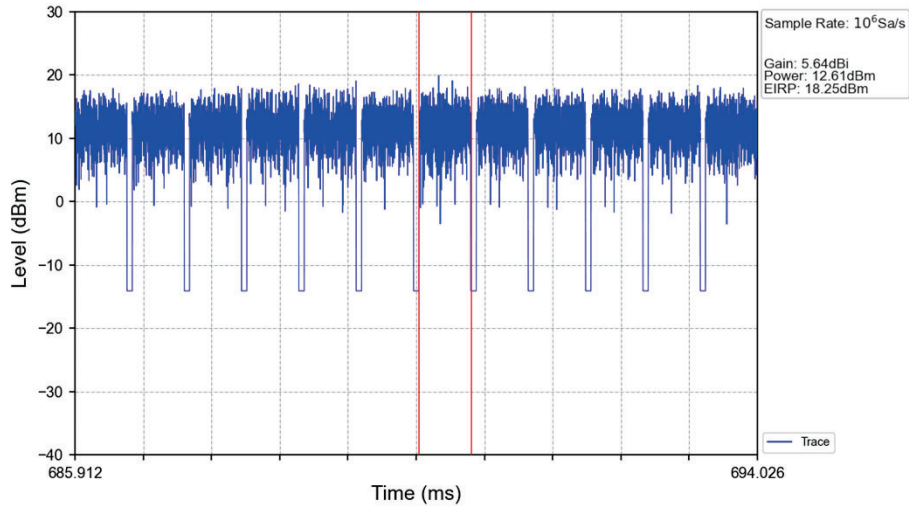
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.617	0.617	0.617	0.618	0.618	0.618	0.617	0.617	0.617	0.617	0.617	0.617
Power (dBm)	12.54	12.54	12.60	12.60	12.60	12.62	12.71	12.46	12.46	12.46	12.48	12.49
Remark	/	/	/	/	/	/	Max	/	/	/	/	/



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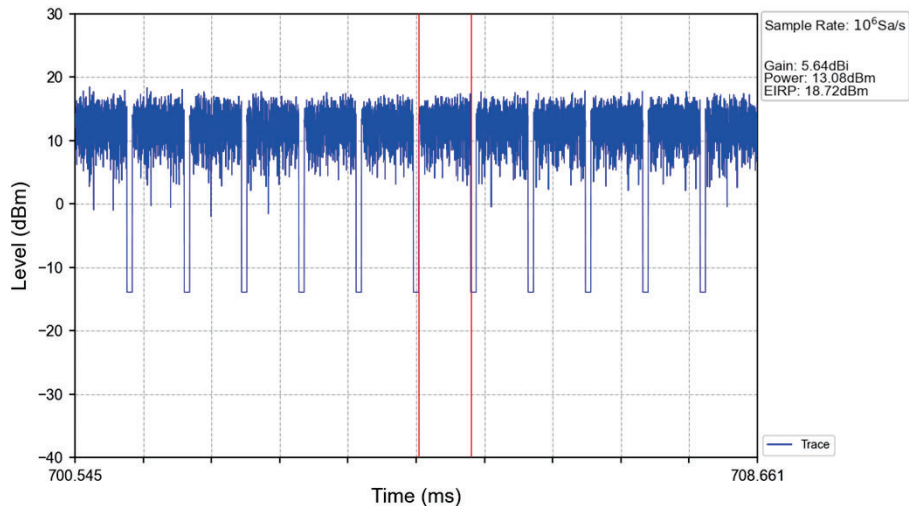
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

802.11g_2442MHz_Ant1 (SISO)_LTV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.618	0.618	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617	0.617
Power (dBm)	12.28	12.26	12.30	12.39	12.35	12.38	12.61	12.37	12.37	12.37	12.39	12.39
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

802.11g_2472MHz_Ant1 (SISO)_LTV

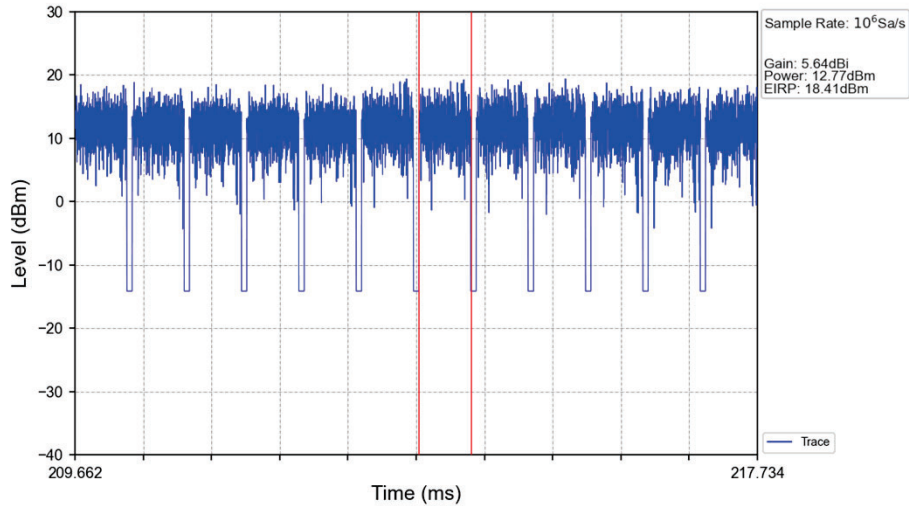


Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.617	0.617	0.617	0.618	0.618	0.618	0.617	0.617	0.617	0.617	0.617	0.618
Power (dBm)	12.90	12.92	12.86	12.85	12.97	12.96	13.08	12.99	12.97	12.96	12.96	12.78
Remark	/	/	/	/	/	/	Max	/	/	/	/	/



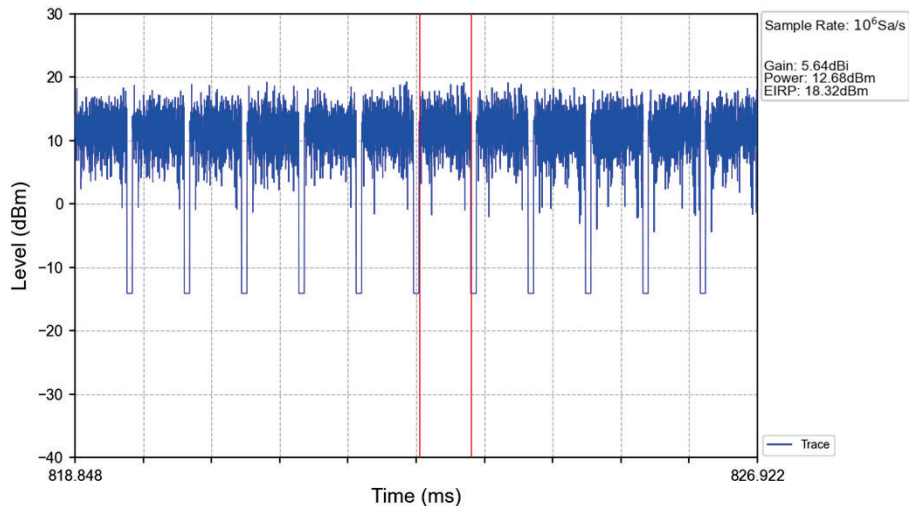
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802.11n(HT20)_2412MHz_Ant1 (SISO)_LTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.613	0.614	0.614	0.614	0.614	0.613	0.613	0.613	0.613	0.613	0.614	0.614
Power (dBm)	12.63	12.41	12.23	12.26	12.27	12.75	12.77	12.76	12.75	12.62	12.42	12.42
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

802.11n(HT20)_2442MHz_Ant1 (SISO)_LTNV



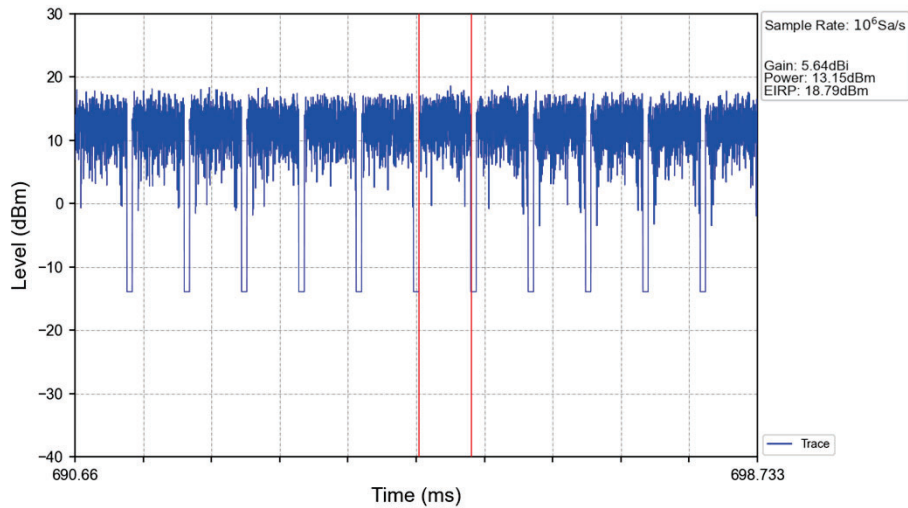
Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.614	0.614	0.614	0.614	0.613	0.613	0.613	0.613	0.613	0.614	0.614	0.614
Power (dBm)	12.26	12.29	12.33	12.41	12.39	12.65	12.68	12.66	12.38	12.32	12.32	12.32
Remark	/	/	/	/	/	/	Max	/	/	/	/	/



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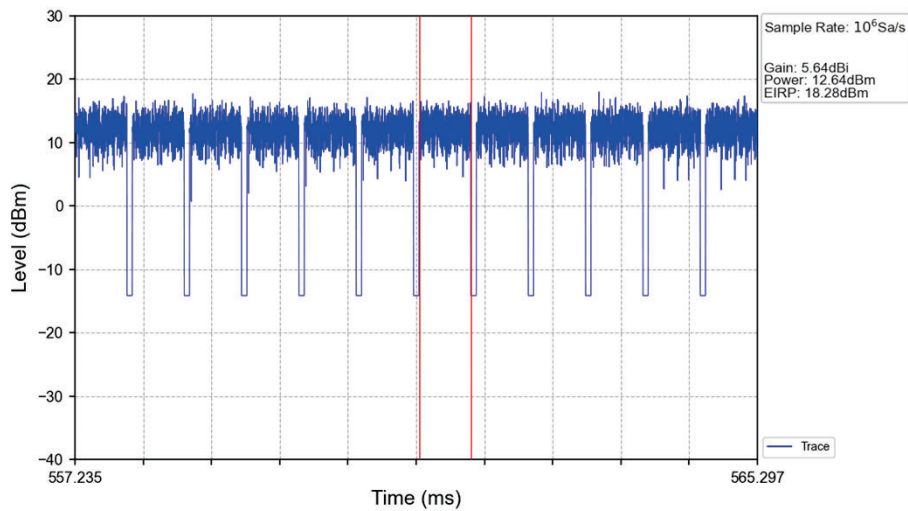
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802.11n(HT20)_2472MHz_Ant1 (SISO)_LTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.614	0.614	0.614	0.614	0.614	0.613	0.613	0.613	0.614	0.614	0.614	0.614
Power (dBm)	12.83	12.85	12.85	12.73	12.88	12.90	13.15	13.06	12.81	12.80	12.79	12.77
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

802.11n(HT40)_2422MHz_Ant1 (SISO)_LTNV

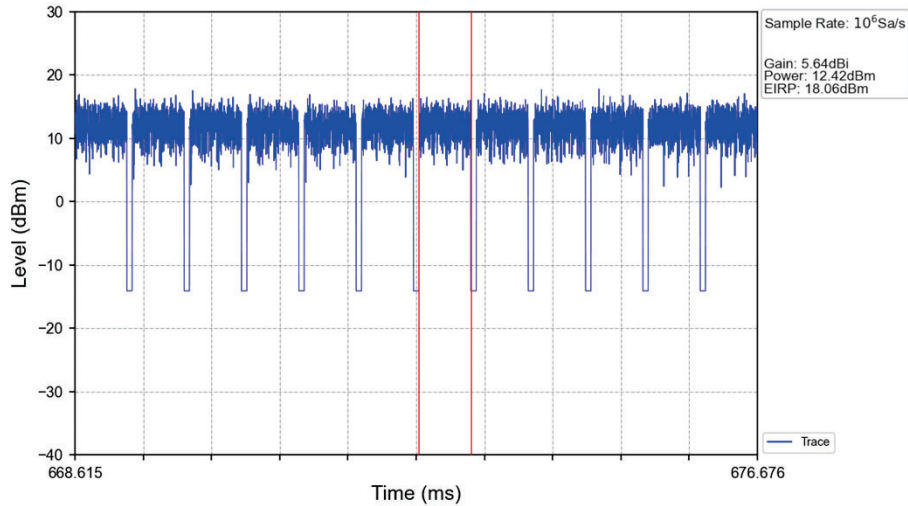


Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.614	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613
Power (dBm)	12.55	12.39	12.40	12.39	12.38	12.46	12.64	12.60	12.58	12.56	12.56	12.56
Remark	/	/	/	/	/	/	Max	/	/	/	/	/



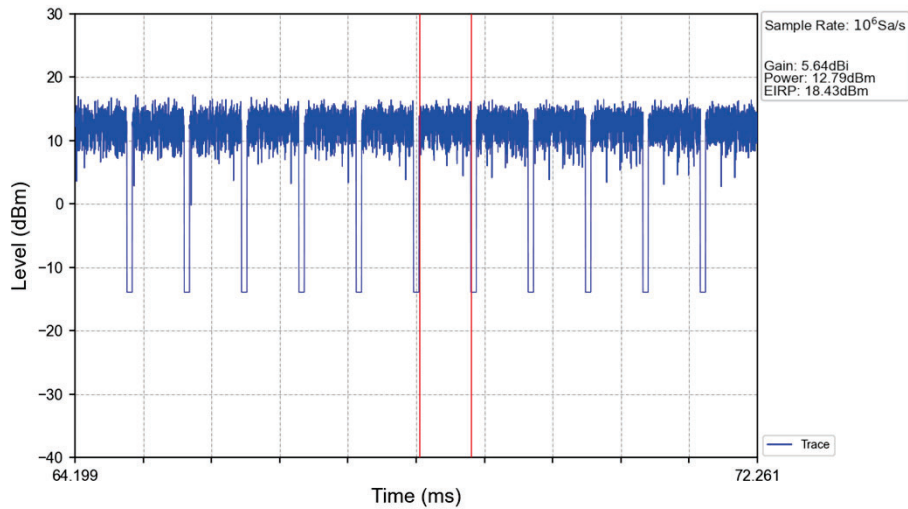
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802.11n(HT40)_2442MHz_Ant1 (SISO)_LTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.613	0.614	0.614	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613
Power (dBm)	12.31	12.32	12.29	12.29	12.17	12.42	12.42	12.39	12.36	12.28	12.34	12.35
Remark	/	/	/	/	/	/	Max	/	/	/	/	/

802.11n(HT40)_2462MHz_Ant1 (SISO)_LTNV



Burst No.	1	2	3	4	5	6	7	8	9	10	11	12
Length (ms)	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.614	0.614	0.614	0.613
Power (dBm)	12.64	12.63	12.61	12.70	12.75	12.77	12.79	12.71	12.64	12.67	12.70	12.72
Remark	/	/	/	/	/	/	Max	/	/	/	/	/



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2. Power Spectral Density

2.1 Test Result

2.1.1 PSD

ENV	Mode	TX Type	Frequency (MHz)	ANT	E.I.R.PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NTNV	802.11b	SISO	2412	1	9.47	<=10	Pass
			2442	1	9.35	<=10	Pass
			2472	1	9.90	<=10	Pass
	802.11g	SISO	2412	1	6.81	<=10	Pass
			2442	1	6.58	<=10	Pass
			2472	1	7.00	<=10	Pass
	802.11n (HT20)	SISO	2412	1	6.55	<=10	Pass
			2442	1	6.40	<=10	Pass
			2472	1	6.79	<=10	Pass
	802.11n (HT40)	SISO	2422	1	3.73	<=10	Pass
			2442	1	3.53	<=10	Pass
			2462	1	3.68	<=10	Pass

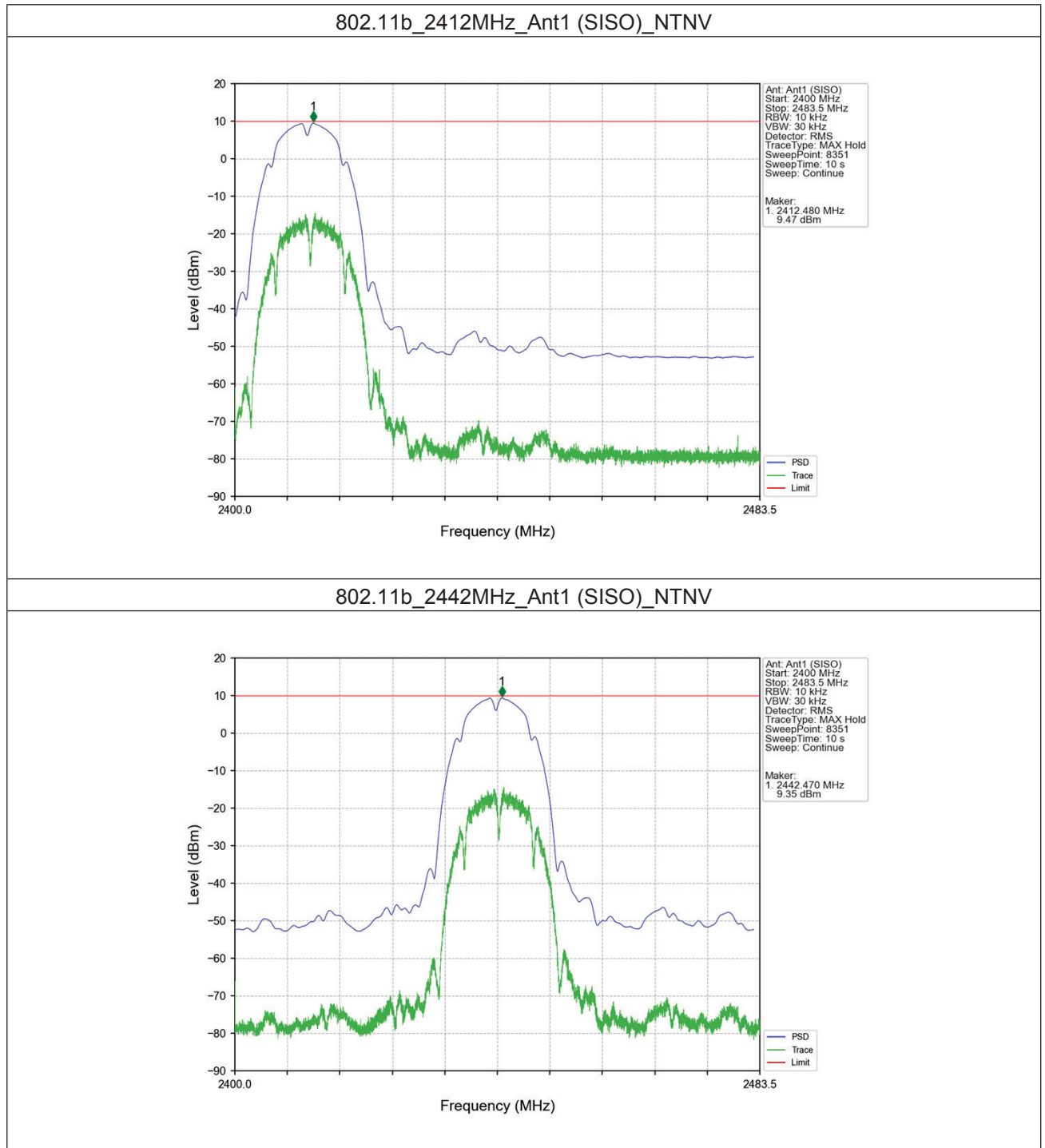


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2.2 Test Graph

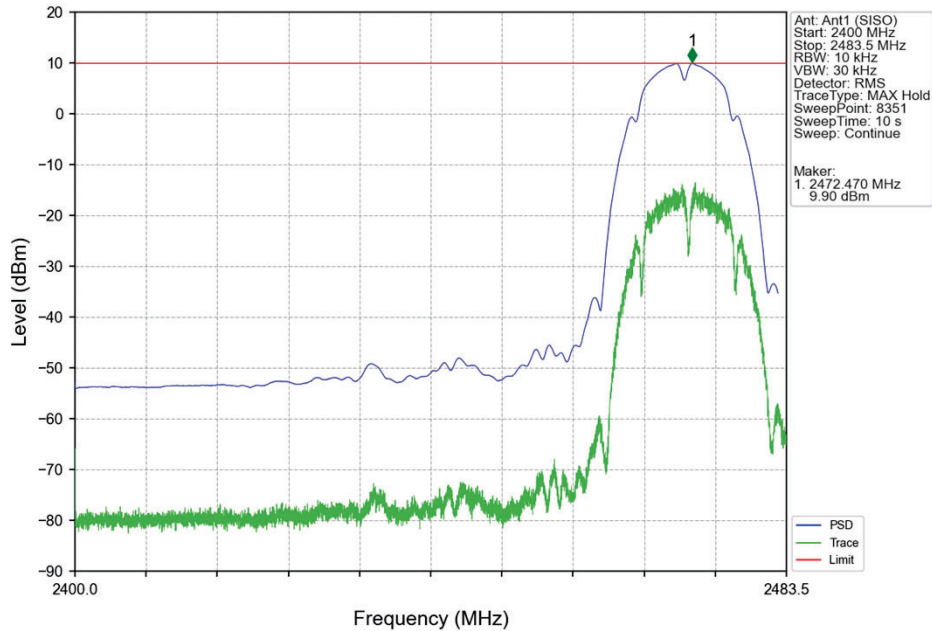
2.2.1 PSD



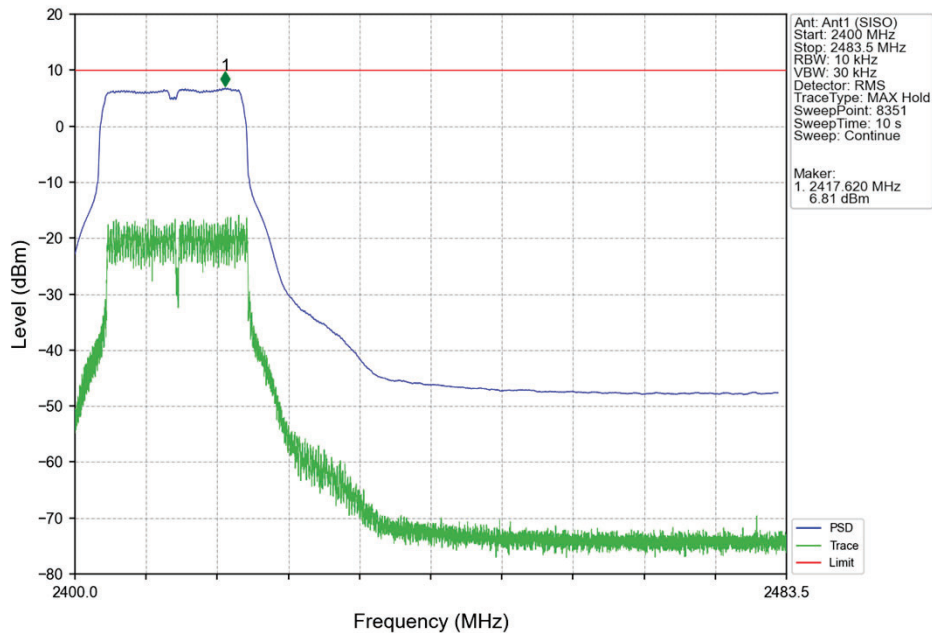
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802.11b_2472MHz_Ant1 (SISO)_NTNV



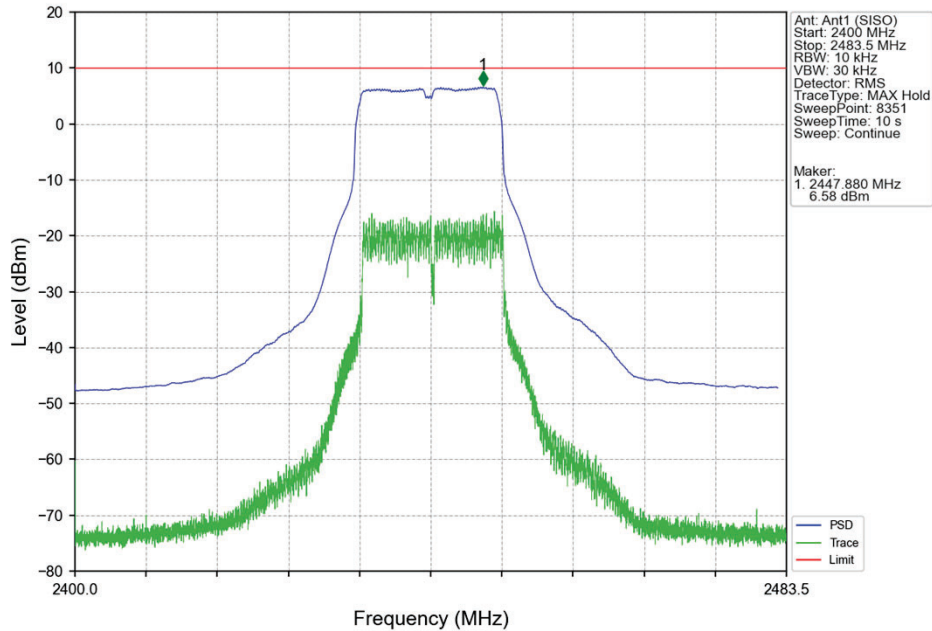
802.11g_2412MHz_Ant1 (SISO)_NTNV



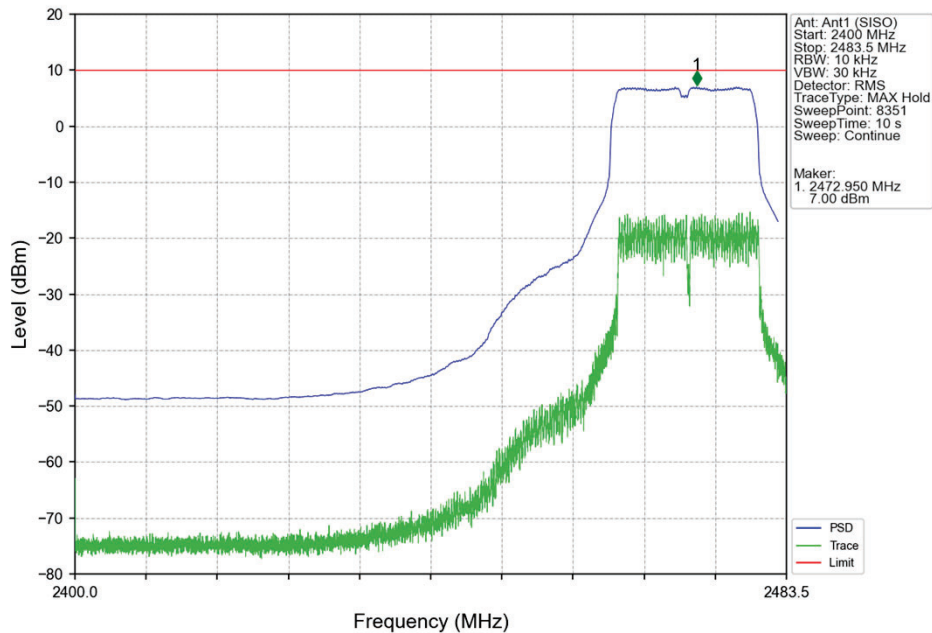
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802.11g_2442MHz_Ant1 (SISO)_NTNV



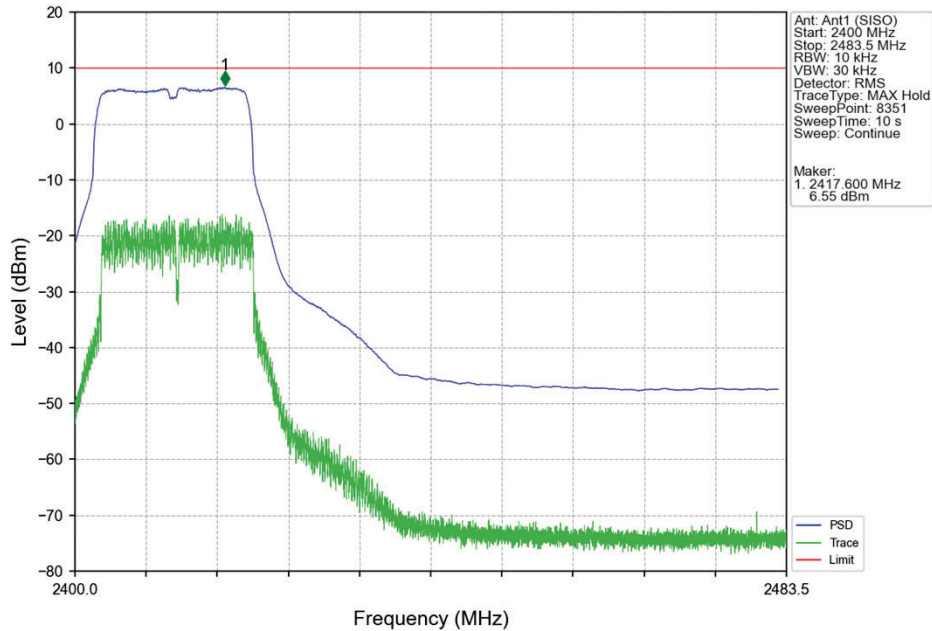
802.11g_2472MHz_Ant1 (SISO)_NTNV



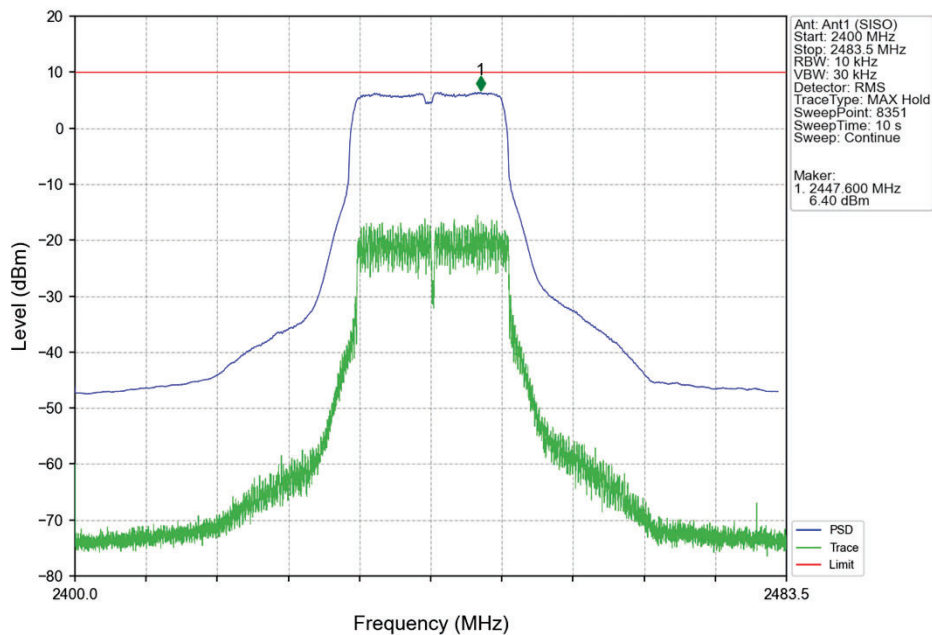
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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



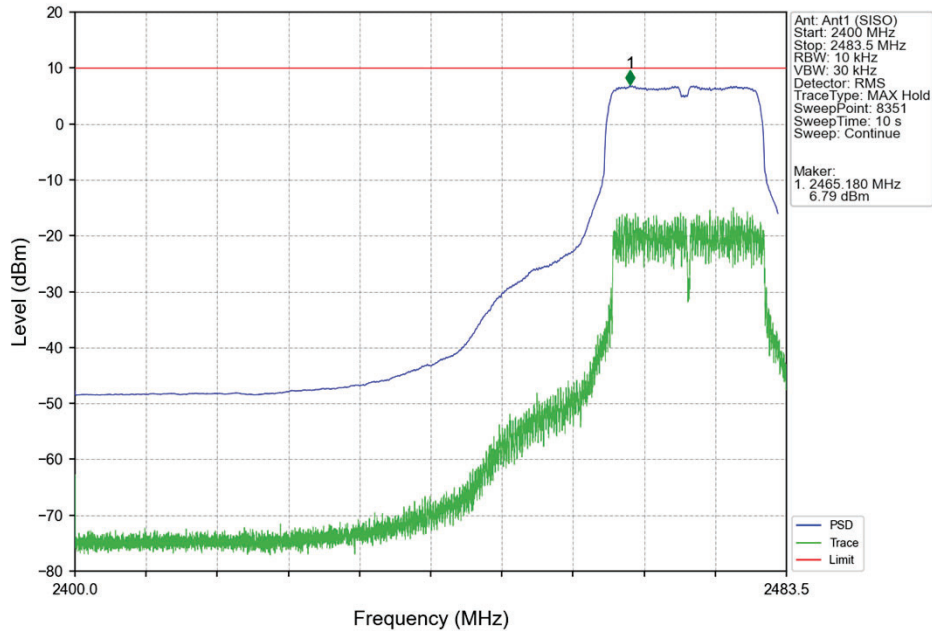
802.11n(HT20)_2442MHz_Ant1 (SISO)_NTNV



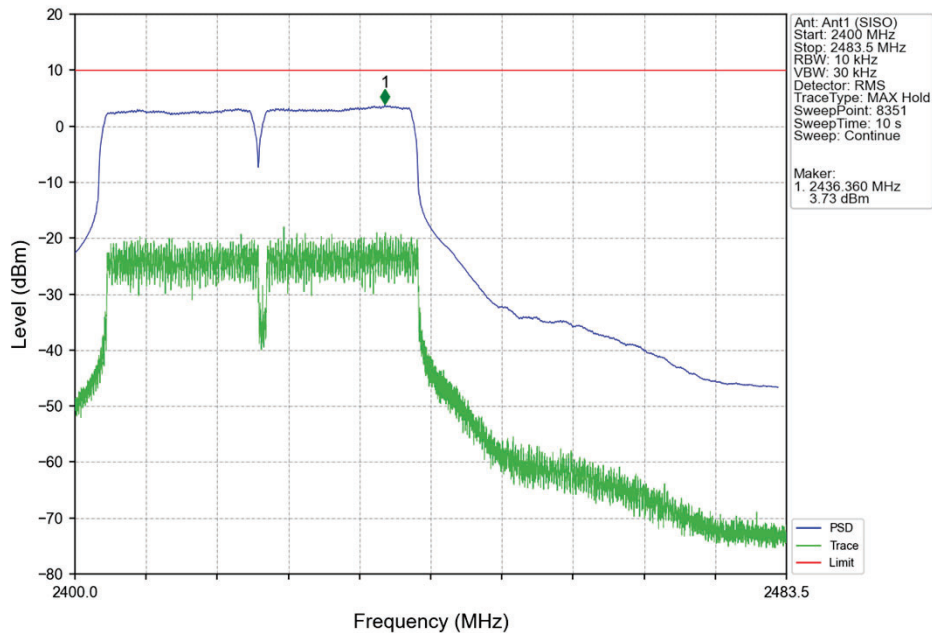
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802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



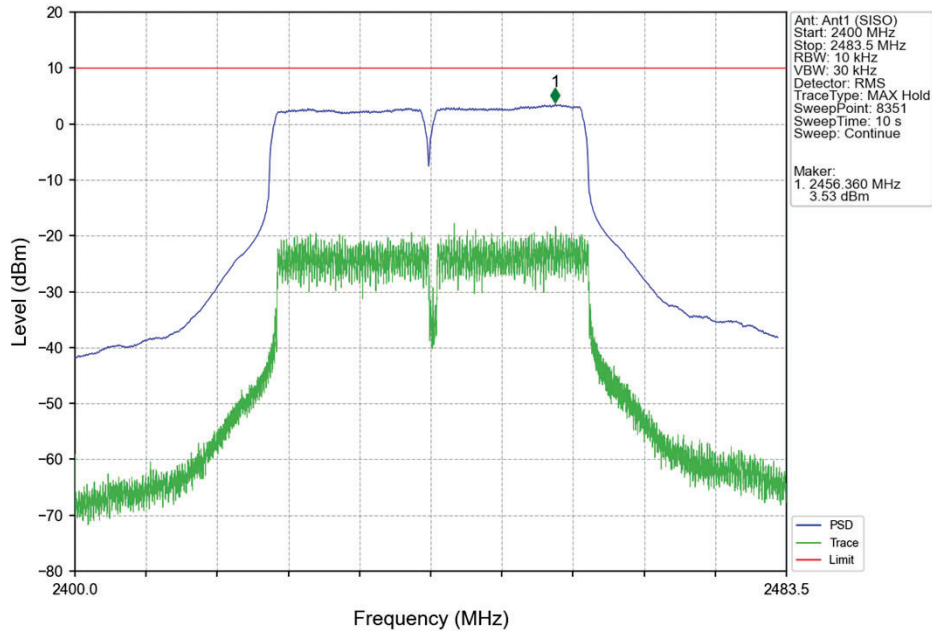
802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



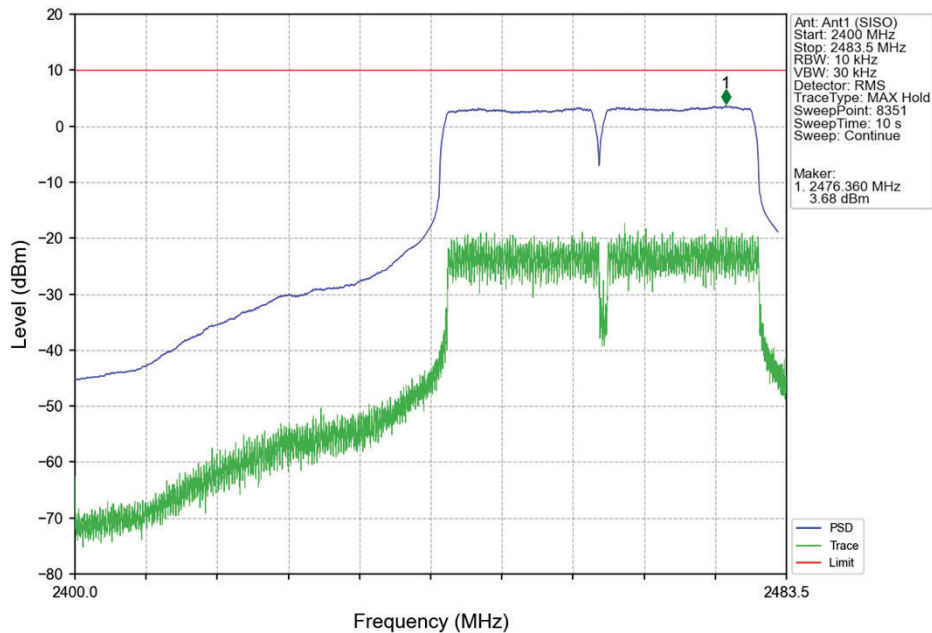
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802.11n(HT40)_2442MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



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3. Adaptivity (Channel Access Mechanism)

3.1 Test Result

3.1.1 COT

ENV	Mode	TX Type	Frequency (MHz)	ANT	Min Idle Time (ms)		Max COT (ms)		Verdict
					Result	Limit	Result	Limit	
NTNV	802.11b	SISO	2412	1	0.080	>=0.018	1.240	<=13	Pass
			2472	1	0.060	>=0.018	1.240	<=13	Pass

3.1.2 Adaptivity

ENV	Mode	TX Type	Frequency (MHz)	ANT	Interference Signal			Max. Short Control Signal		Verdict
					Type	Add Time (s)	Level (dBm/MHz)	Duty Cycle (%)	Limit (%)	
NTNV	802.11b	SISO	2412	1	AWGN	1.168	-62.33	0.00	<=10	Pass
					AWGN+CW	61.168	-62.33	0.00	<=10	Pass
			2472	1	AWGN	1.168	-62.81	0.00	<=10	Pass
					AWGN+CW	61.168	-62.81	0.00	<=10	Pass

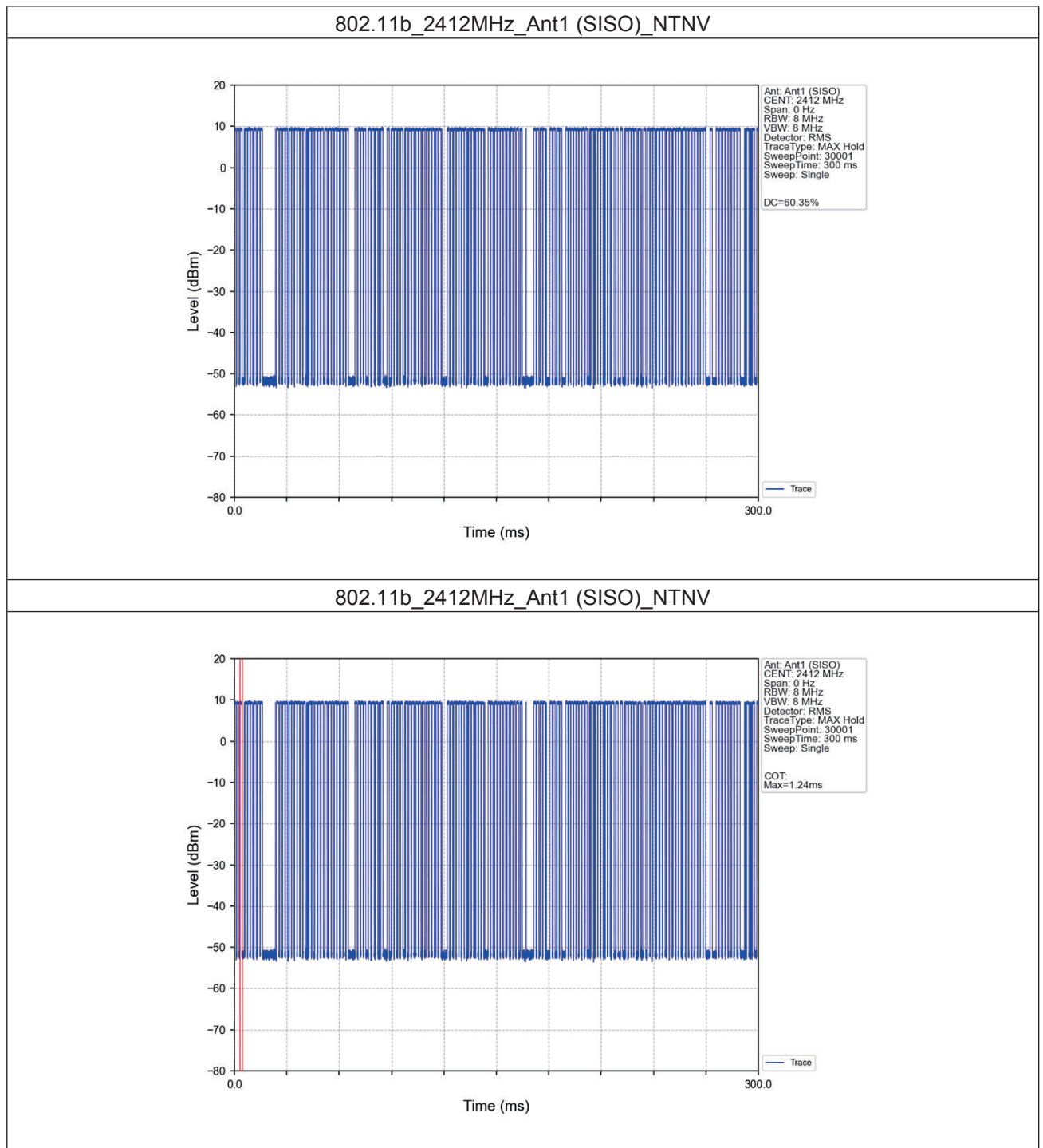


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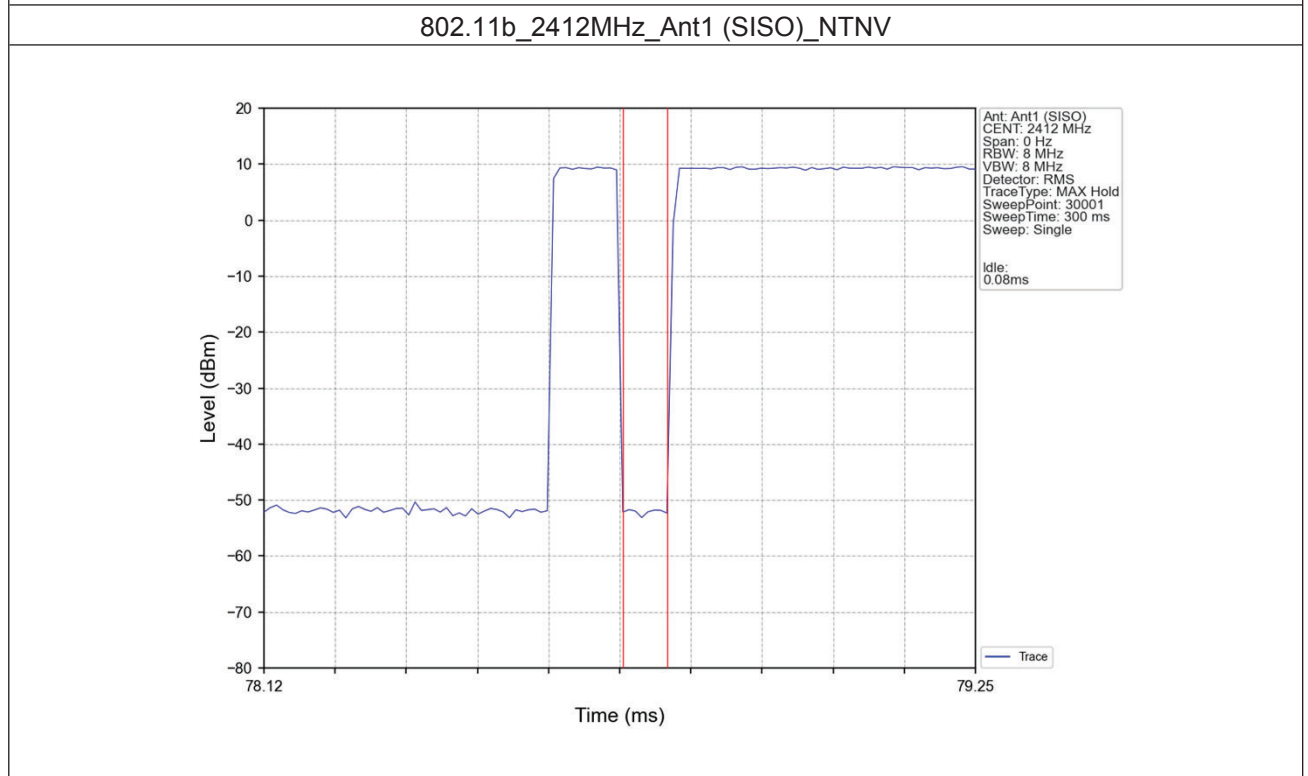
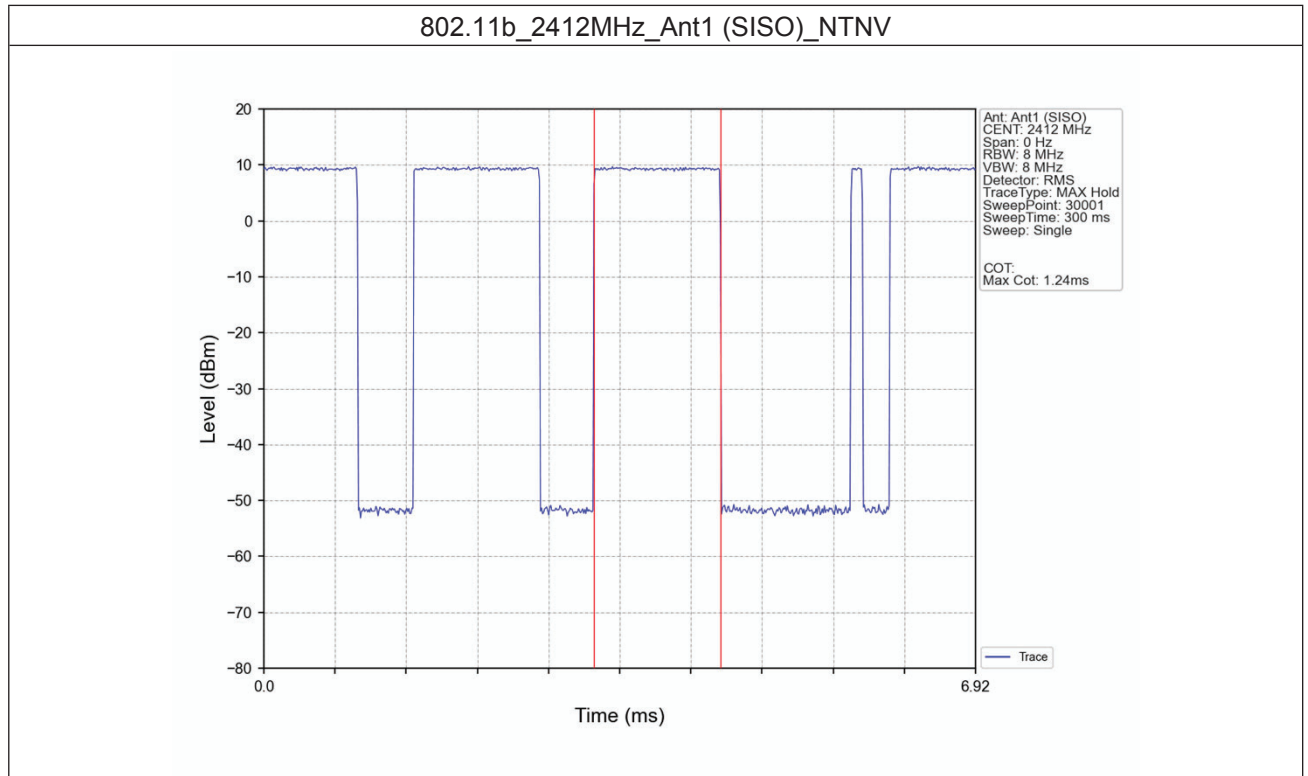
3.2 Test Graph

3.2.1 COT

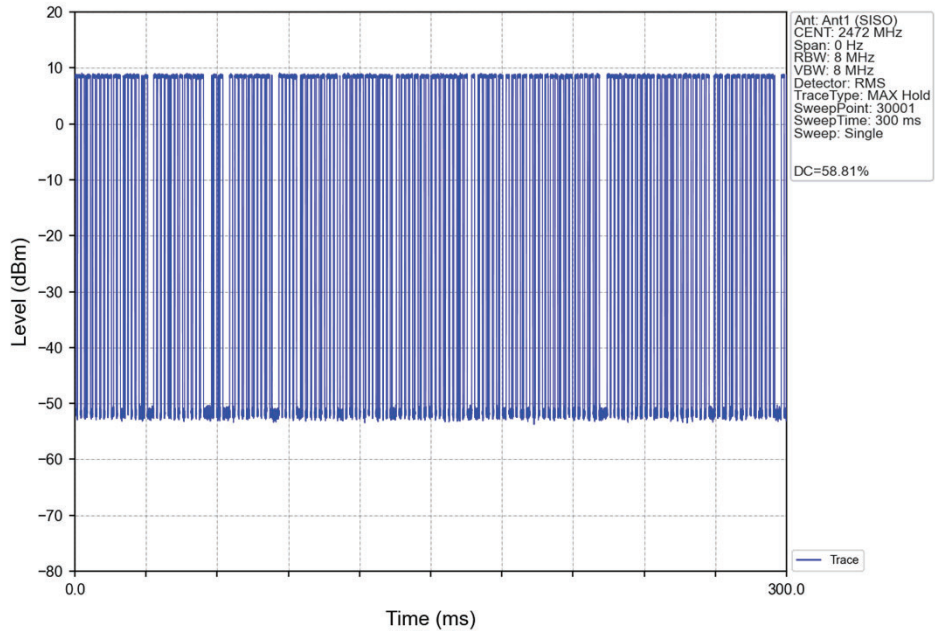


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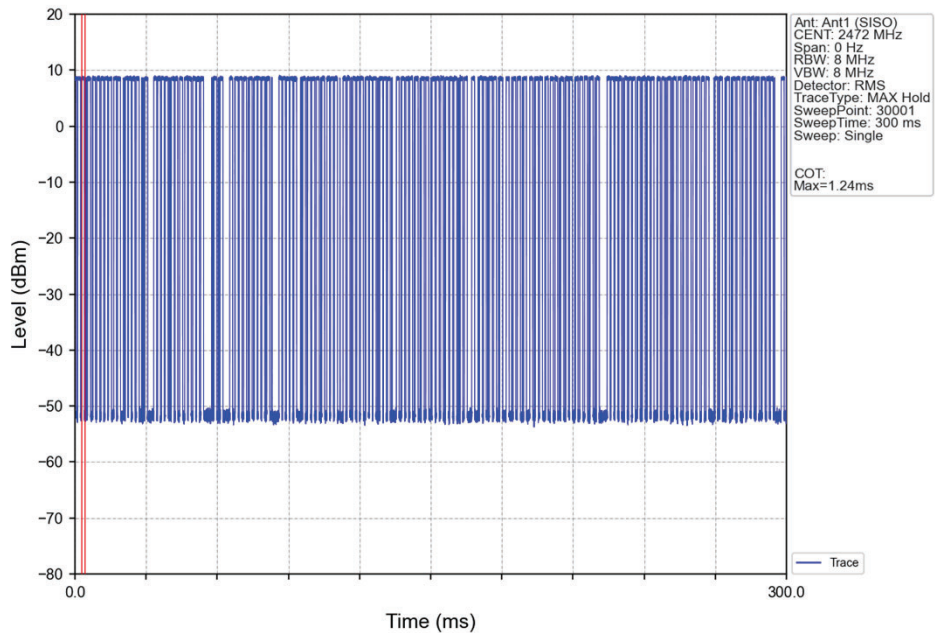
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802.11b_2472MHz_Ant1 (SISO)_NTNV



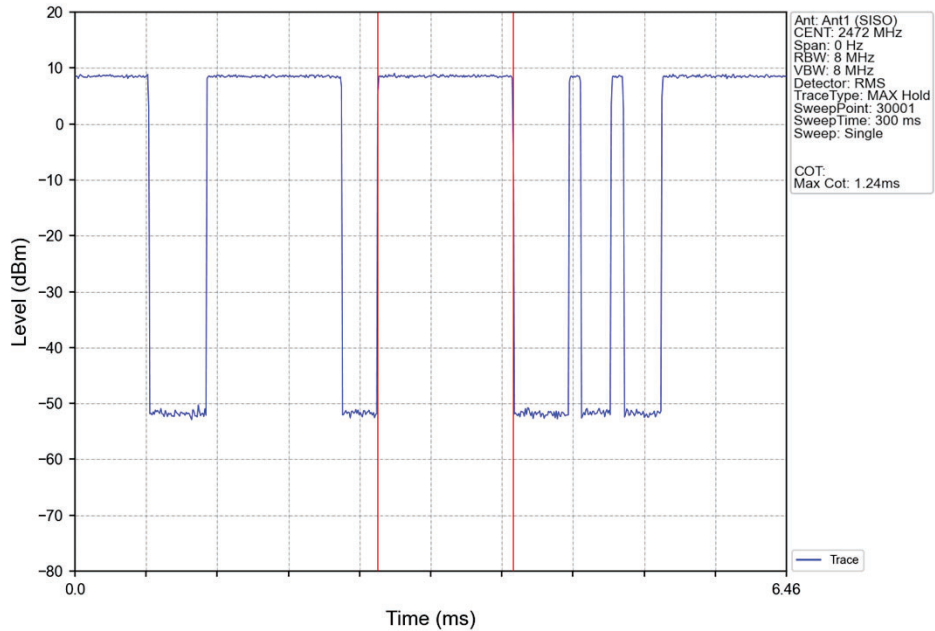
802.11b_2472MHz_Ant1 (SISO)_NTNV



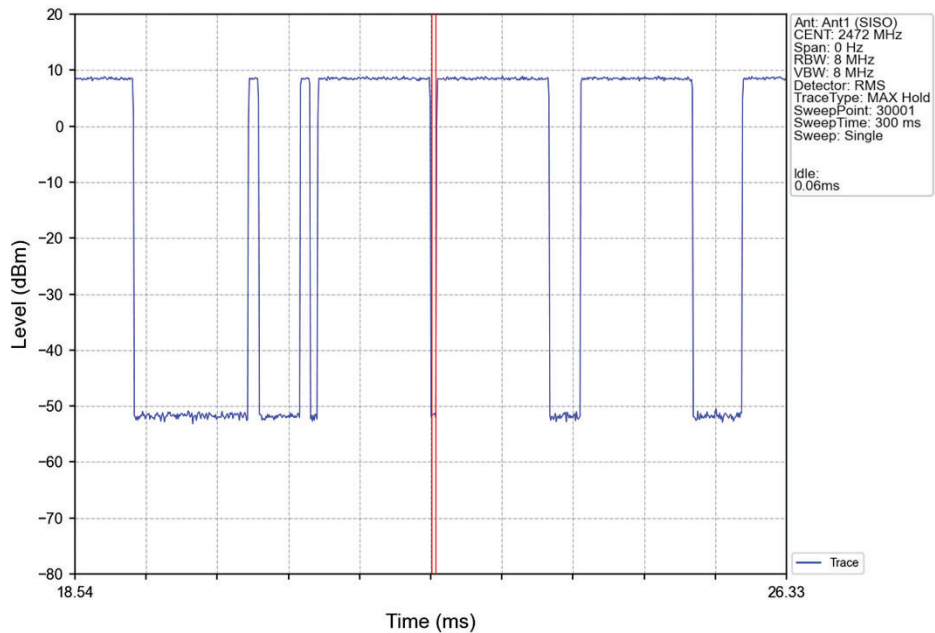
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802.11b_2472MHz_Ant1 (SISO)_NTNV

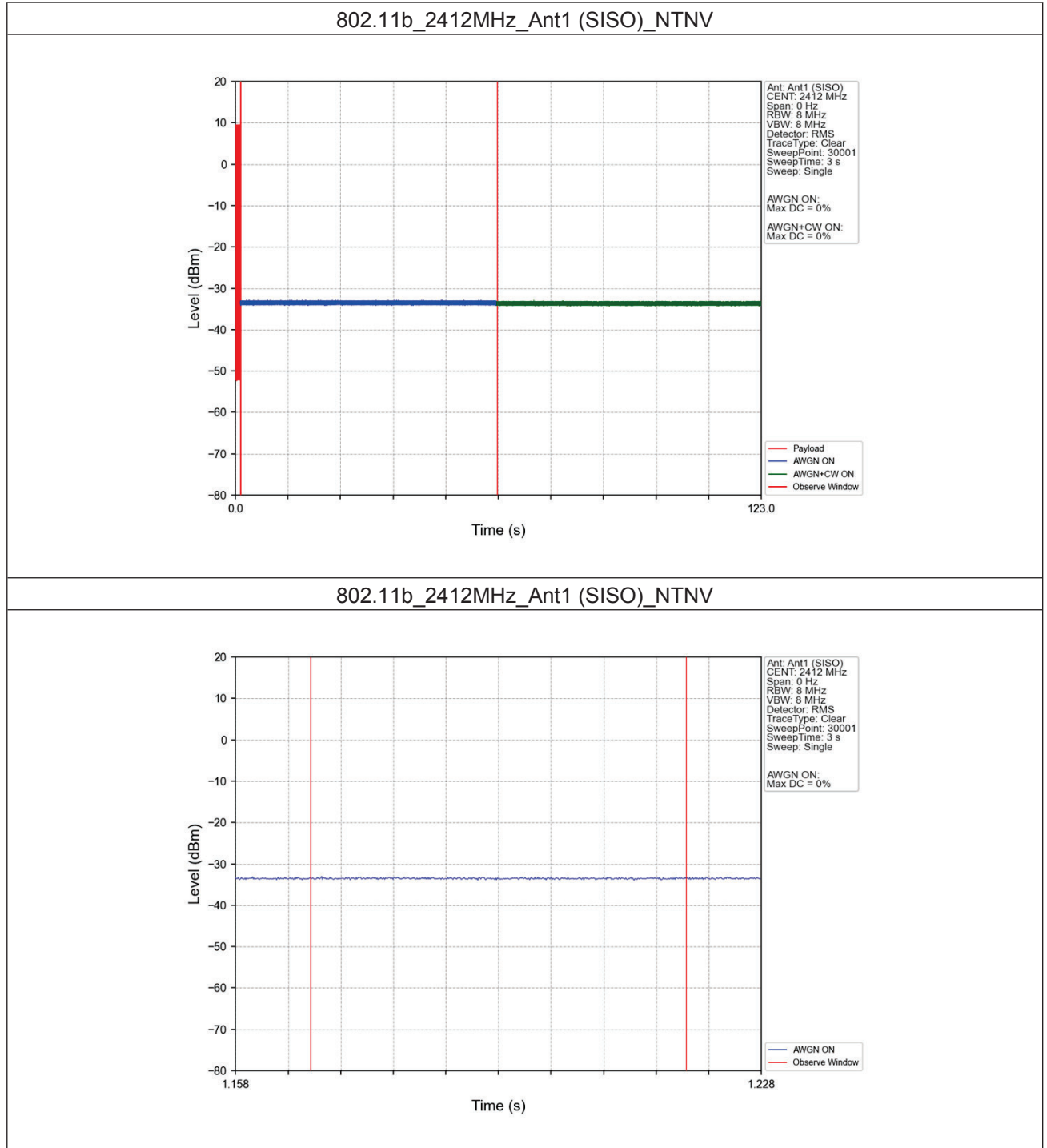


802.11b_2472MHz_Ant1 (SISO)_NTNV



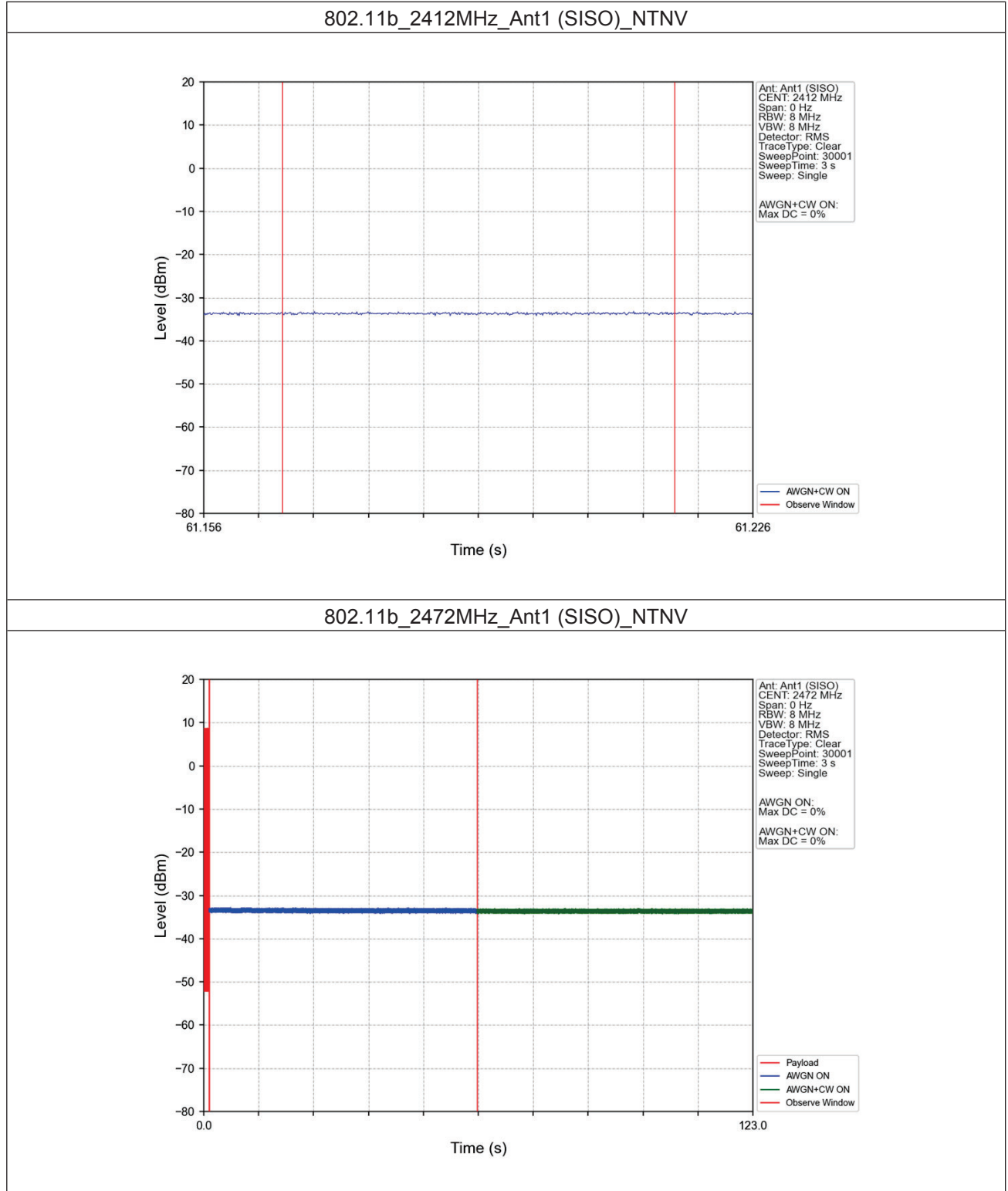
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3.2.2 Adaptivity



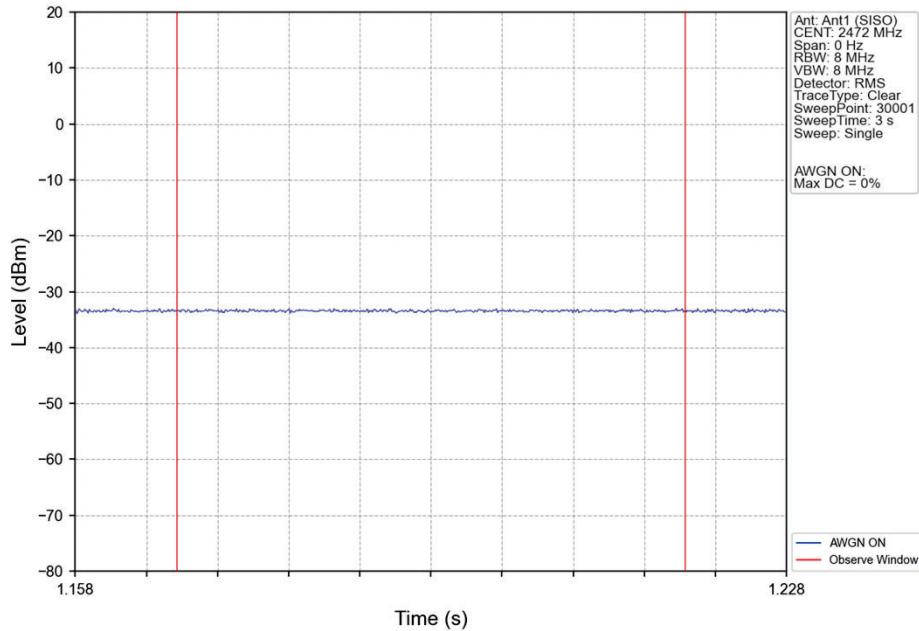
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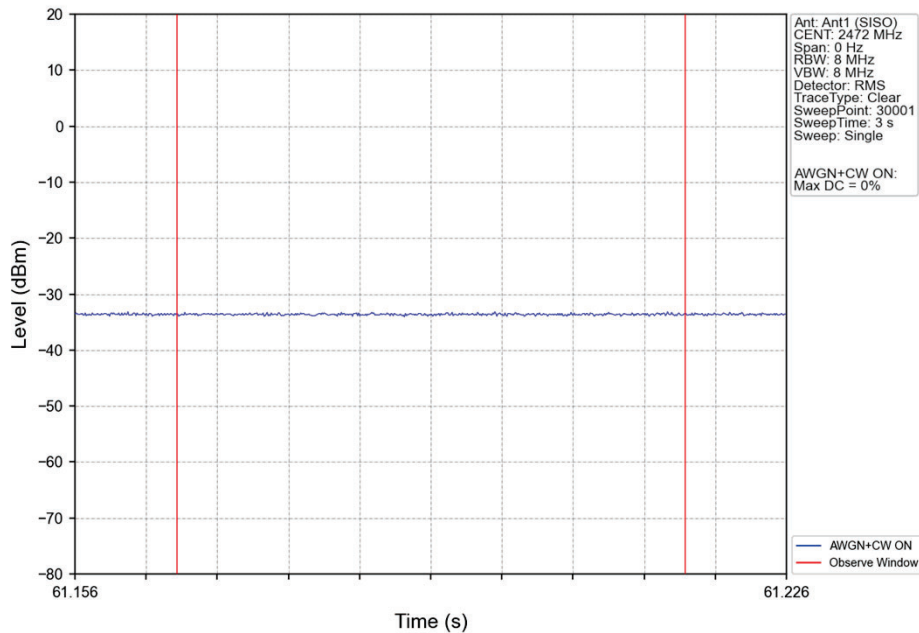


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802.11b_2472MHz_Ant1 (SISO)_NTNV



802.11b_2472MHz_Ant1 (SISO)_NTNV



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4. Occupied Channel Bandwidth

4.1 Test Result

4.1.1 OBW_Ant1

ENV	Mode	TX Type	Frequency (MHz)	Ant1				Verdict
				OBW (MHz)	Frequency Range (MHz)			
				Result	FL	FH	Limit	
NTNV	802.11b	SISO	2412	13.252	2405.437	/	>=2400	Pass
			2472	13.312	/	2478.702	<=2483.5	Pass
	802.11g	SISO	2412	16.655	2403.711	/	>=2400	Pass
			2472	16.704	/	2480.385	<=2483.5	Pass
	802.11n (HT20)	SISO	2412	17.861	2403.106	/	>=2400	Pass
			2472	17.909	/	2480.983	<=2483.5	Pass
	802.11n (HT40)	SISO	2422	36.532	2403.794	/	>=2400	Pass
			2462	36.581	/	2480.344	<=2483.5	Pass

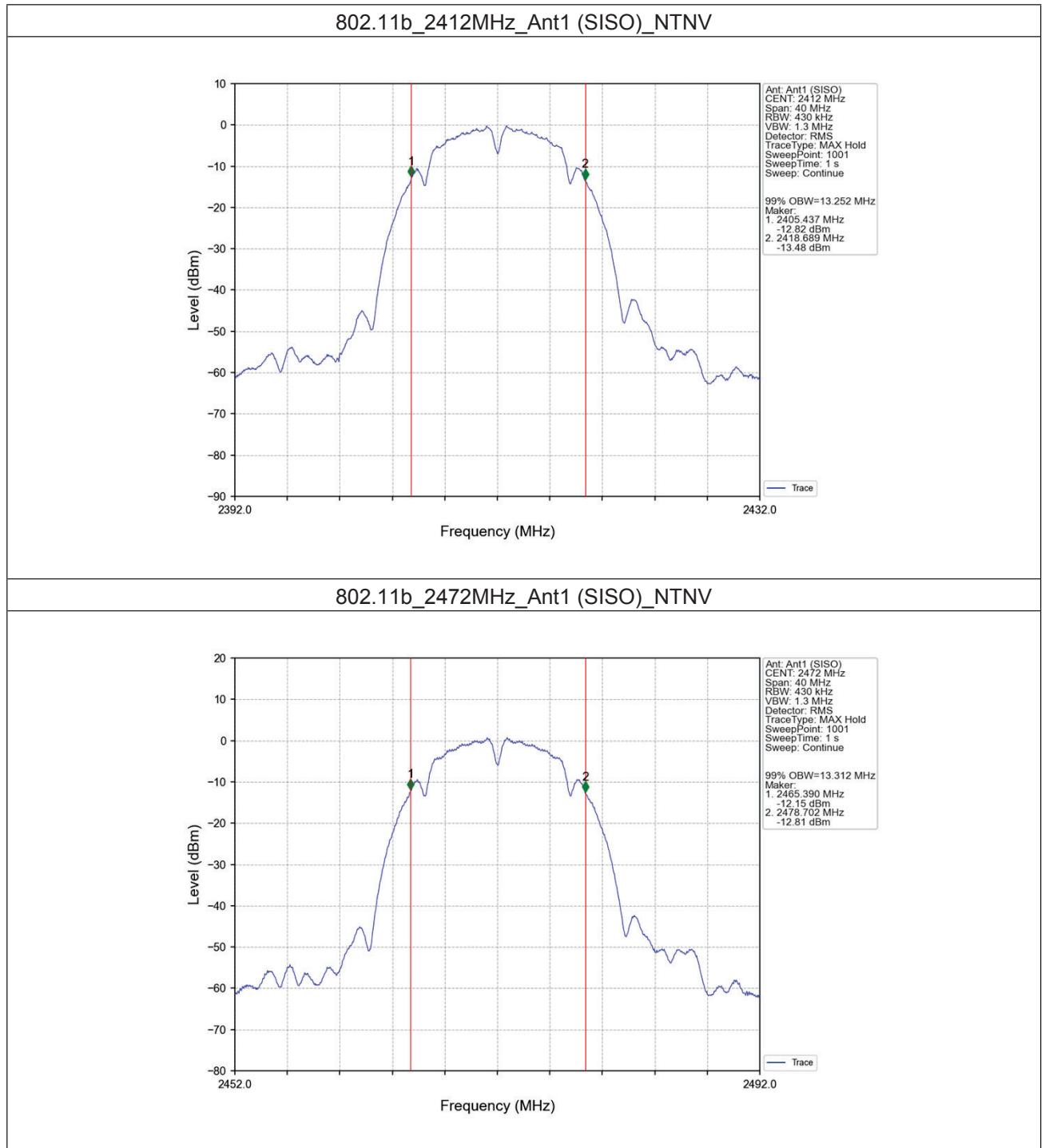


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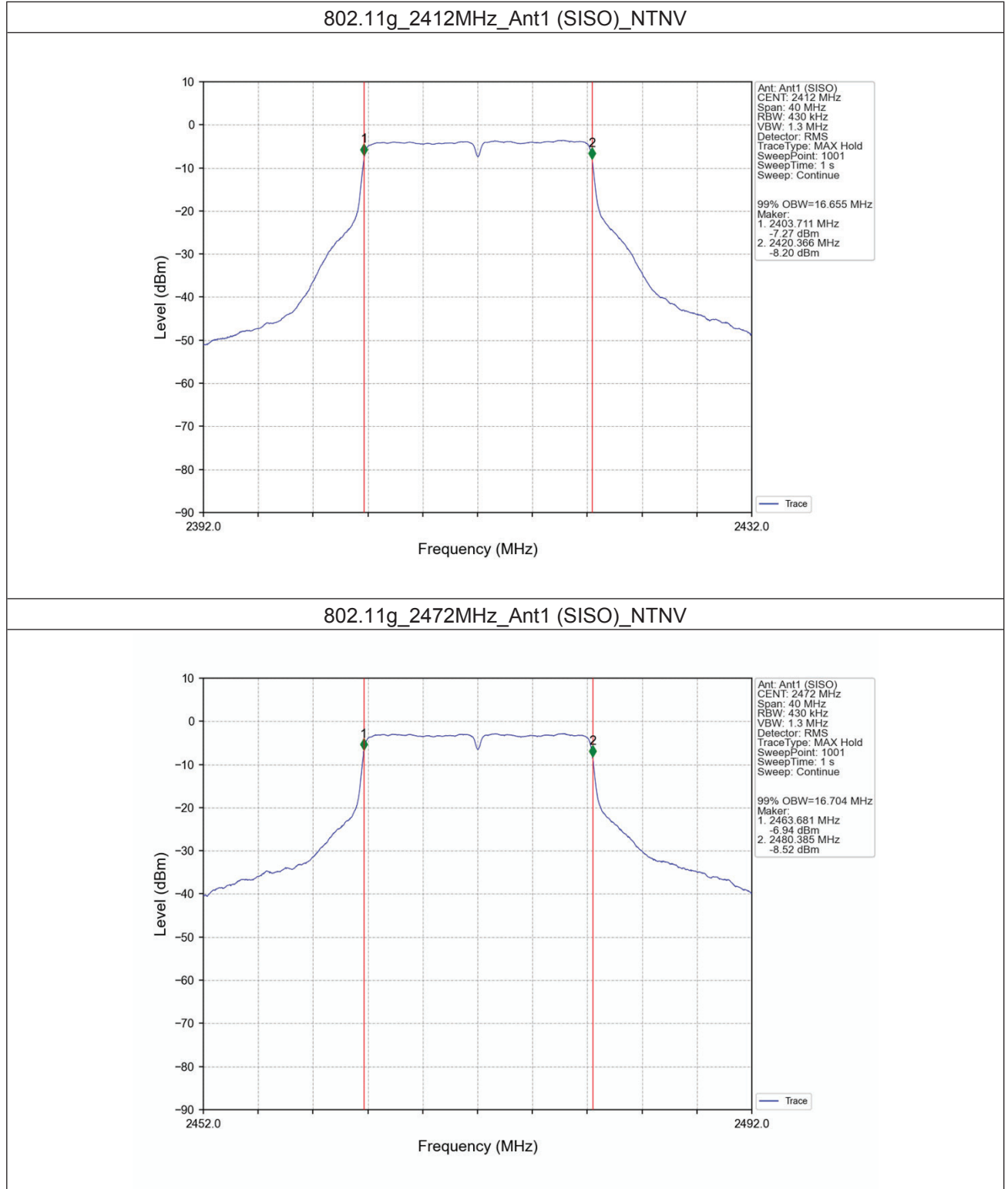
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4.2 Test Graph

4.2.1 OBW_Ant1

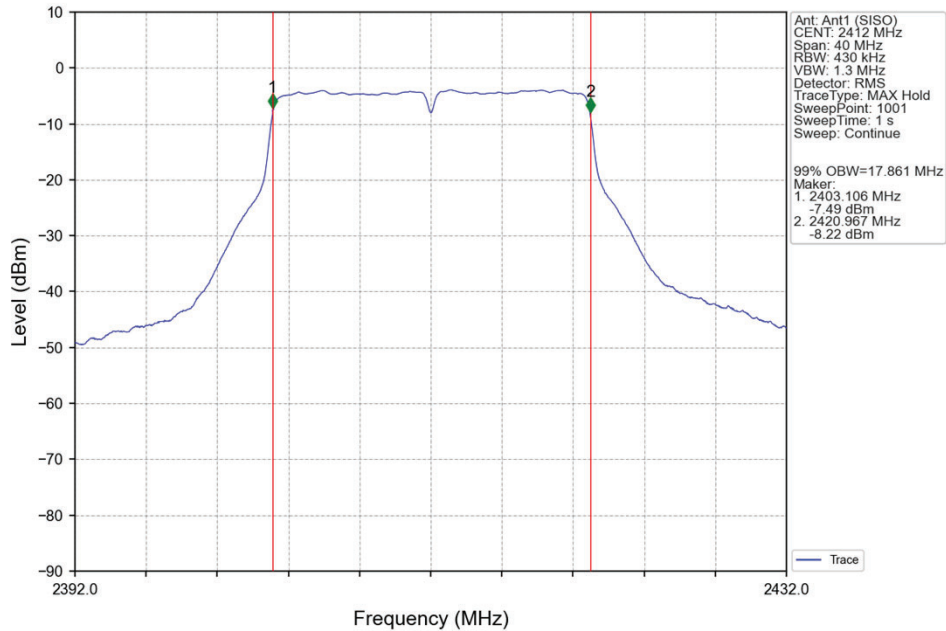


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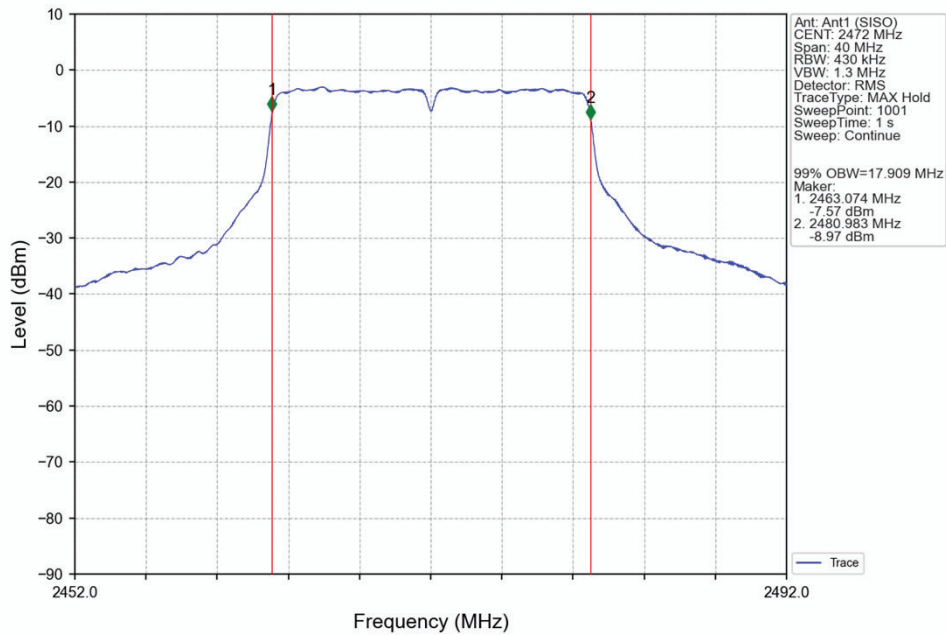


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802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV

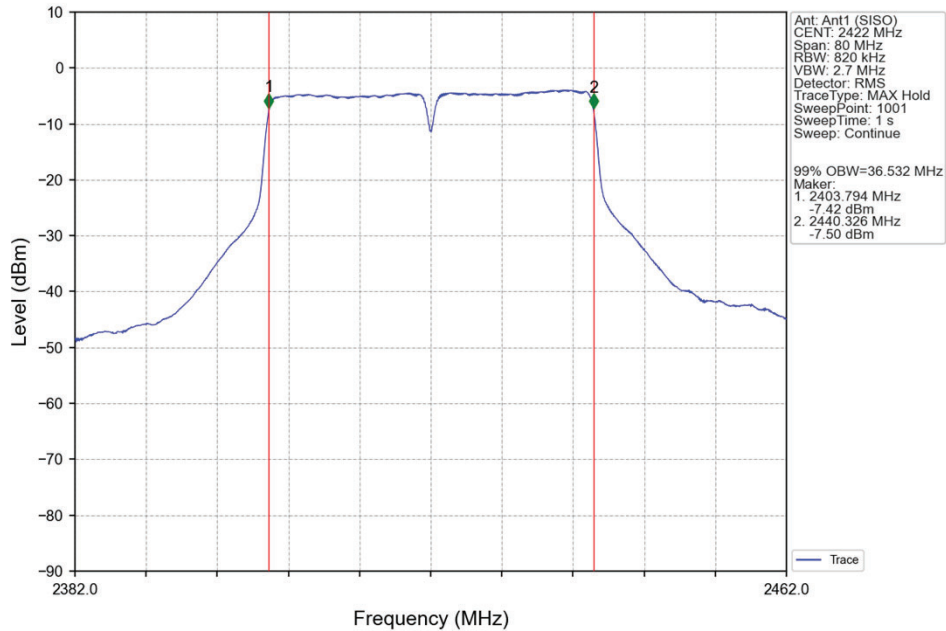


802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV

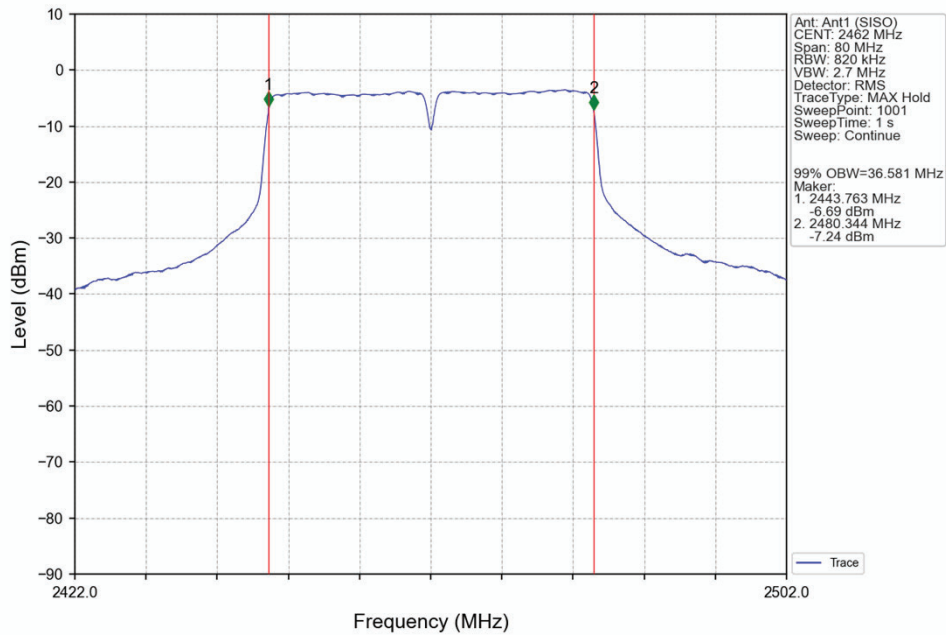


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802.11n(HT40)_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_2462MHz_Ant1 (SISO)_NTNV



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5. Transmitter Unwanted Emissions In The Out-Of-Band Domain

5.1 Test Result

5.1.1 802.11b-Ant1_NTNV

Ant1_NTNV								
Mode	Tx Type	Frequency (MHz)	ANT	Test Freq. (MHz)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict	
802.11b	SISO	2412	1	2373.996	-53.44	<=-20	Pass	
				2374.248	-53.32	<=-20	Pass	
				2375.248	-51.67	<=-20	Pass	
				2376.248	-51.93	<=-20	Pass	
				2377.248	-53.79	<=-20	Pass	
				2378.248	-54.50	<=-20	Pass	
				2379.248	-53.40	<=-20	Pass	
				2380.248	-53.23	<=-20	Pass	
				2381.248	-53.00	<=-20	Pass	
				2382.248	-52.44	<=-20	Pass	
				2383.248	-50.45	<=-20	Pass	
				2384.248	-50.95	<=-20	Pass	
				2385.248	-48.92	<=-20	Pass	
				2386.248	-49.37	<=-20	Pass	
				2387.248	-49.25	<=-10	Pass	
				2387.500	-50.44	<=-10	Pass	
				2388.500	-51.61	<=-10	Pass	
				2389.500	-53.66	<=-10	Pass	
				2390.500	-54.10	<=-10	Pass	
				2391.500	-52.71	<=-10	Pass	
				2392.500	-51.35	<=-10	Pass	
				2393.500	-50.14	<=-10	Pass	
				2394.500	-48.00	<=-10	Pass	
				2395.500	-49.09	<=-10	Pass	
		2396.500	-45.92	<=-10	Pass			
		2397.500	-47.50	<=-10	Pass			
		2398.500	-47.91	<=-10	Pass			
		2399.500	-47.24	<=-10	Pass			
		2472	1	2472	2484.000	-40.58	<=-10	Pass
		2485.000			-43.59	<=-10	Pass	



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

				2486.000	-41.71	<=-10	Pass
				2487.000	-43.34	<=-10	Pass
				2488.000	-49.80	<=-10	Pass
				2489.000	-51.34	<=-10	Pass
				2490.000	-50.28	<=-10	Pass
				2491.000	-51.98	<=-10	Pass
				2492.000	-52.82	<=-10	Pass
				2493.000	-53.01	<=-10	Pass
				2494.000	-52.94	<=-10	Pass
				2495.000	-52.33	<=-10	Pass
				2496.000	-50.71	<=-10	Pass
				2496.312	-50.44	<=-10	Pass
				2497.312	-50.52	<=-20	Pass
				2498.312	-49.19	<=-20	Pass
				2499.312	-50.06	<=-20	Pass
				2500.312	-50.06	<=-20	Pass
				2501.312	-51.23	<=-20	Pass
				2502.312	-52.08	<=-20	Pass
				2503.312	-51.95	<=-20	Pass
				2504.312	-51.34	<=-20	Pass
				2505.312	-52.43	<=-20	Pass
				2506.312	-52.26	<=-20	Pass
				2507.312	-50.72	<=-20	Pass
				2508.312	-49.91	<=-20	Pass
				2509.312	-48.46	<=-20	Pass
				2509.624	-48.93	<=-20	Pass

5.1.2 802.11g-Ant1_NTNV

Ant1_NTNV							
Mode	TX Type	Frequency (MHz)	ANT	Test Freq. (MHz)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11g	SISO	2412	1	2367.190	-49.65	<=-20	Pass
				2367.845	-49.53	<=-20	Pass
				2368.845	-49.52	<=-20	Pass
				2369.845	-49.44	<=-20	Pass
				2370.845	-49.30	<=-20	Pass
				2371.845	-49.34	<=-20	Pass
				2372.845	-49.26	<=-20	Pass
				2373.845	-49.19	<=-20	Pass
				2374.845	-49.03	<=-20	Pass



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			2375.845	-48.96	<=-20	Pass
			2376.845	-48.97	<=-20	Pass
			2377.845	-48.53	<=-20	Pass
			2378.845	-48.41	<=-20	Pass
			2379.845	-48.16	<=-20	Pass
			2380.845	-48.20	<=-20	Pass
			2381.845	-47.75	<=-20	Pass
			2382.845	-47.76	<=-20	Pass
			2383.845	-47.40	<=-10	Pass
			2384.500	-47.03	<=-10	Pass
			2385.500	-46.50	<=-10	Pass
			2386.500	-46.48	<=-10	Pass
			2387.500	-46.13	<=-10	Pass
			2388.500	-45.61	<=-10	Pass
			2389.500	-44.43	<=-10	Pass
			2390.500	-43.69	<=-10	Pass
			2391.500	-42.09	<=-10	Pass
			2392.500	-41.31	<=-10	Pass
			2393.500	-40.30	<=-10	Pass
			2394.500	-39.29	<=-10	Pass
			2395.500	-38.40	<=-10	Pass
			2396.500	-37.28	<=-10	Pass
			2397.500	-36.13	<=-10	Pass
			2398.500	-34.25	<=-10	Pass
			2399.500	-28.73	<=-10	Pass
		2472	2484.000	-20.97	<=-10	Pass
			2485.000	-22.79	<=-10	Pass
			2486.000	-23.78	<=-10	Pass
			2487.000	-25.00	<=-10	Pass
			2488.000	-25.76	<=-10	Pass
			2489.000	-26.80	<=-10	Pass
			2490.000	-27.74	<=-10	Pass
			2491.000	-29.08	<=-10	Pass
			2492.000	-30.64	<=-10	Pass
			2493.000	-32.44	<=-10	Pass
			2494.000	-35.24	<=-10	Pass
			2495.000	-38.04	<=-10	Pass
			2496.000	-41.00	<=-10	Pass
			2497.000	-42.86	<=-10	Pass
			2498.000	-43.63	<=-10	Pass



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				2499.000	-44.35	<=-10	Pass
				2499.704	-45.09	<=-10	Pass
				2500.704	-45.39	<=-20	Pass
				2501.704	-46.17	<=-20	Pass
				2502.704	-46.59	<=-20	Pass
				2503.704	-46.91	<=-20	Pass
				2504.704	-47.22	<=-20	Pass
				2505.704	-47.46	<=-20	Pass
				2506.704	-47.89	<=-20	Pass
				2507.704	-47.94	<=-20	Pass
				2508.704	-47.99	<=-20	Pass
				2509.704	-48.34	<=-20	Pass
				2510.704	-48.40	<=-20	Pass
				2511.704	-48.68	<=-20	Pass
				2512.704	-48.54	<=-20	Pass
				2513.704	-48.71	<=-20	Pass
				2514.704	-48.81	<=-20	Pass
				2515.704	-49.02	<=-20	Pass
				2516.408	-48.93	<=-20	Pass

5.1.3 802.11n(HT20)-Ant1_NTNV

Ant1_NTNV							
Mode	TX Type	Frequency (MHz)	ANT	Test Freq. (MHz)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11n (HT20)	SISO	2412	1	2364.778	-49.65	<=-20	Pass
				2365.639	-49.58	<=-20	Pass
				2366.639	-49.55	<=-20	Pass
				2367.639	-49.54	<=-20	Pass
				2368.639	-49.50	<=-20	Pass
				2369.639	-49.34	<=-20	Pass
				2370.639	-49.20	<=-20	Pass
				2371.639	-49.29	<=-20	Pass
				2372.639	-49.18	<=-20	Pass
				2373.639	-49.09	<=-20	Pass
				2374.639	-48.85	<=-20	Pass
				2375.639	-48.83	<=-20	Pass
				2376.639	-48.53	<=-20	Pass
				2377.639	-48.47	<=-20	Pass
				2378.639	-48.26	<=-20	Pass
2379.639	-48.05	<=-20	Pass				



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				2380.639	-47.82	<=-20	Pass
				2381.639	-47.32	<=-20	Pass
				2382.639	-47.43	<=-10	Pass
				2383.500	-46.96	<=-10	Pass
				2384.500	-46.78	<=-10	Pass
				2385.500	-46.49	<=-10	Pass
				2386.500	-45.80	<=-10	Pass
				2387.500	-44.96	<=-10	Pass
				2388.500	-43.82	<=-10	Pass
				2389.500	-42.89	<=-10	Pass
				2390.500	-41.48	<=-10	Pass
				2391.500	-40.55	<=-10	Pass
				2392.500	-39.89	<=-10	Pass
				2393.500	-38.96	<=-10	Pass
				2394.500	-37.94	<=-10	Pass
				2395.500	-37.25	<=-10	Pass
				2396.500	-36.63	<=-10	Pass
				2397.500	-35.60	<=-10	Pass
				2398.500	-33.43	<=-10	Pass
				2399.500	-28.14	<=-10	Pass
		2472	1	2484.000	-19.88	<=-10	Pass
				2485.000	-22.09	<=-10	Pass
				2486.000	-22.94	<=-10	Pass
				2487.000	-23.61	<=-10	Pass
				2488.000	-24.74	<=-10	Pass
				2489.000	-25.38	<=-10	Pass
				2490.000	-26.48	<=-10	Pass
				2491.000	-27.86	<=-10	Pass
				2492.000	-28.83	<=-10	Pass
				2493.000	-30.04	<=-10	Pass
				2494.000	-31.53	<=-10	Pass
				2495.000	-33.76	<=-10	Pass
				2496.000	-36.05	<=-10	Pass
				2497.000	-38.76	<=-10	Pass
				2498.000	-41.57	<=-10	Pass
				2499.000	-43.07	<=-10	Pass
				2500.000	-43.80	<=-10	Pass
				2500.909	-44.07	<=-10	Pass
				2501.909	-44.69	<=-20	Pass
				2502.909	-45.01	<=-20	Pass



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				2503.909	-45.43	<=-20	Pass
				2504.909	-45.93	<=-20	Pass
				2505.909	-46.11	<=-20	Pass
				2506.909	-46.54	<=-20	Pass
				2507.909	-46.82	<=-20	Pass
				2508.909	-47.18	<=-20	Pass
				2509.909	-47.68	<=-20	Pass
				2510.909	-47.72	<=-20	Pass
				2511.909	-48.00	<=-20	Pass
				2512.909	-48.09	<=-20	Pass
				2513.909	-48.35	<=-20	Pass
				2514.909	-48.55	<=-20	Pass
				2515.909	-48.70	<=-20	Pass
				2516.909	-48.66	<=-20	Pass
				2517.909	-48.76	<=-20	Pass
				2518.818	-48.88	<=-20	Pass

5.1.4 802.11n(HT40)-Ant1_NTNV

Ant1_NTNV							
Mode	TX Type	Frequency (MHz)	ANT	Test Freq. (MHz)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11n (HT40)	SISO	2422	1	2327.436	-50.36	<=-20	Pass
				2327.968	-50.43	<=-20	Pass
				2328.968	-50.38	<=-20	Pass
				2329.968	-50.38	<=-20	Pass
				2330.968	-50.25	<=-20	Pass
				2331.968	-50.32	<=-20	Pass
				2332.968	-50.16	<=-20	Pass
				2333.968	-50.23	<=-20	Pass
				2334.968	-50.29	<=-20	Pass
				2335.968	-50.29	<=-20	Pass
				2336.968	-50.08	<=-20	Pass
				2337.968	-50.11	<=-20	Pass
				2338.968	-50.07	<=-20	Pass
				2339.968	-50.02	<=-20	Pass
				2340.968	-49.93	<=-20	Pass
				2341.968	-50.00	<=-20	Pass
				2342.968	-49.97	<=-20	Pass
2343.968	-49.87	<=-20	Pass				
2344.968	-49.94	<=-20	Pass				



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			2345.968	-49.75	<=-20	Pass
			2346.968	-49.89	<=-20	Pass
			2347.968	-49.58	<=-20	Pass
			2348.968	-49.54	<=-20	Pass
			2349.968	-49.56	<=-20	Pass
			2350.968	-49.26	<=-20	Pass
			2351.968	-49.44	<=-20	Pass
			2352.968	-49.22	<=-20	Pass
			2353.968	-49.16	<=-20	Pass
			2354.968	-49.10	<=-20	Pass
			2355.968	-49.08	<=-20	Pass
			2356.968	-48.97	<=-20	Pass
			2357.968	-48.77	<=-20	Pass
			2358.968	-48.73	<=-20	Pass
			2359.968	-48.36	<=-20	Pass
			2360.968	-48.41	<=-20	Pass
			2361.968	-48.36	<=-20	Pass
			2362.968	-48.17	<=-20	Pass
			2363.968	-48.26	<=-10	Pass
			2364.500	-48.06	<=-10	Pass
			2365.500	-47.69	<=-10	Pass
			2366.500	-47.61	<=-10	Pass
			2367.500	-47.49	<=-10	Pass
			2368.500	-47.32	<=-10	Pass
			2369.500	-47.16	<=-10	Pass
			2370.500	-47.04	<=-10	Pass
			2371.500	-46.72	<=-10	Pass
			2372.500	-46.36	<=-10	Pass
			2373.500	-45.78	<=-10	Pass
			2374.500	-45.44	<=-10	Pass
			2375.500	-45.04	<=-10	Pass
			2376.500	-44.51	<=-10	Pass
			2377.500	-44.18	<=-10	Pass
			2378.500	-43.88	<=-10	Pass
			2379.500	-43.41	<=-10	Pass
			2380.500	-42.85	<=-10	Pass
			2381.500	-42.57	<=-10	Pass
			2382.500	-42.14	<=-10	Pass
			2383.500	-41.52	<=-10	Pass
			2384.500	-41.02	<=-10	Pass



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				2385.500	-40.81	<=-10	Pass
				2386.500	-40.91	<=-10	Pass
				2387.500	-40.71	<=-10	Pass
				2388.500	-40.04	<=-10	Pass
				2389.500	-39.52	<=-10	Pass
				2390.500	-39.55	<=-10	Pass
				2391.500	-38.85	<=-10	Pass
				2392.500	-38.45	<=-10	Pass
				2393.500	-36.75	<=-10	Pass
				2394.500	-35.00	<=-10	Pass
				2395.500	-33.21	<=-10	Pass
				2396.500	-30.78	<=-10	Pass
				2397.500	-28.93	<=-10	Pass
				2398.500	-26.40	<=-10	Pass
				2399.500	-25.34	<=-10	Pass
				2484.000	-21.20	<=-10	Pass
				2485.000	-21.36	<=-10	Pass
				2486.000	-22.59	<=-10	Pass
				2487.000	-24.54	<=-10	Pass
				2488.000	-25.30	<=-10	Pass
				2489.000	-25.97	<=-10	Pass
				2490.000	-26.44	<=-10	Pass
				2491.000	-26.59	<=-10	Pass
				2492.000	-27.16	<=-10	Pass
				2493.000	-27.82	<=-10	Pass
				2494.000	-27.86	<=-10	Pass
				2495.000	-28.05	<=-10	Pass
		2462	1	2496.000	-28.59	<=-10	Pass
				2497.000	-28.69	<=-10	Pass
				2498.000	-28.66	<=-10	Pass
				2499.000	-29.33	<=-10	Pass
				2500.000	-29.59	<=-10	Pass
				2501.000	-30.57	<=-10	Pass
				2502.000	-31.03	<=-10	Pass
				2503.000	-31.76	<=-10	Pass
				2504.000	-32.44	<=-10	Pass
				2505.000	-33.16	<=-10	Pass
				2506.000	-33.38	<=-10	Pass
				2507.000	-34.18	<=-10	Pass
				2508.000	-35.15	<=-10	Pass



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			2509.000	-35.97	<=-10	Pass
			2510.000	-37.22	<=-10	Pass
			2511.000	-38.44	<=-10	Pass
			2512.000	-39.56	<=-10	Pass
			2513.000	-41.02	<=-10	Pass
			2514.000	-42.23	<=-10	Pass
			2515.000	-43.58	<=-10	Pass
			2516.000	-44.60	<=-10	Pass
			2517.000	-45.15	<=-10	Pass
			2518.000	-45.50	<=-10	Pass
			2519.000	-45.60	<=-10	Pass
			2519.581	-45.51	<=-10	Pass
			2520.581	-46.10	<=-20	Pass
			2521.581	-46.22	<=-20	Pass
			2522.581	-46.38	<=-20	Pass
			2523.581	-46.94	<=-20	Pass
			2524.581	-46.64	<=-20	Pass
			2525.581	-46.97	<=-20	Pass
			2526.581	-47.15	<=-20	Pass
			2527.581	-47.37	<=-20	Pass
			2528.581	-47.58	<=-20	Pass
			2529.581	-47.53	<=-20	Pass
			2530.581	-47.63	<=-20	Pass
			2531.581	-47.70	<=-20	Pass
			2532.581	-48.00	<=-20	Pass
			2533.581	-48.17	<=-20	Pass
			2534.581	-48.23	<=-20	Pass
			2535.581	-48.39	<=-20	Pass
			2536.581	-48.49	<=-20	Pass
			2537.581	-48.44	<=-20	Pass
			2538.581	-48.48	<=-20	Pass
			2539.581	-48.65	<=-20	Pass
			2540.581	-48.72	<=-20	Pass
			2541.581	-48.80	<=-20	Pass
			2542.581	-48.95	<=-20	Pass
			2543.581	-48.93	<=-20	Pass
			2544.581	-48.97	<=-20	Pass
			2545.581	-49.08	<=-20	Pass
			2546.581	-48.95	<=-20	Pass
			2547.581	-49.19	<=-20	Pass



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				2548.581	-49.20	<=-20	Pass
				2549.581	-49.13	<=-20	Pass
				2550.581	-49.21	<=-20	Pass
				2551.581	-49.16	<=-20	Pass
				2552.581	-49.15	<=-20	Pass
				2553.581	-49.35	<=-20	Pass
				2554.581	-49.26	<=-20	Pass
				2555.581	-49.36	<=-20	Pass
				2556.162	-49.35	<=-20	Pass

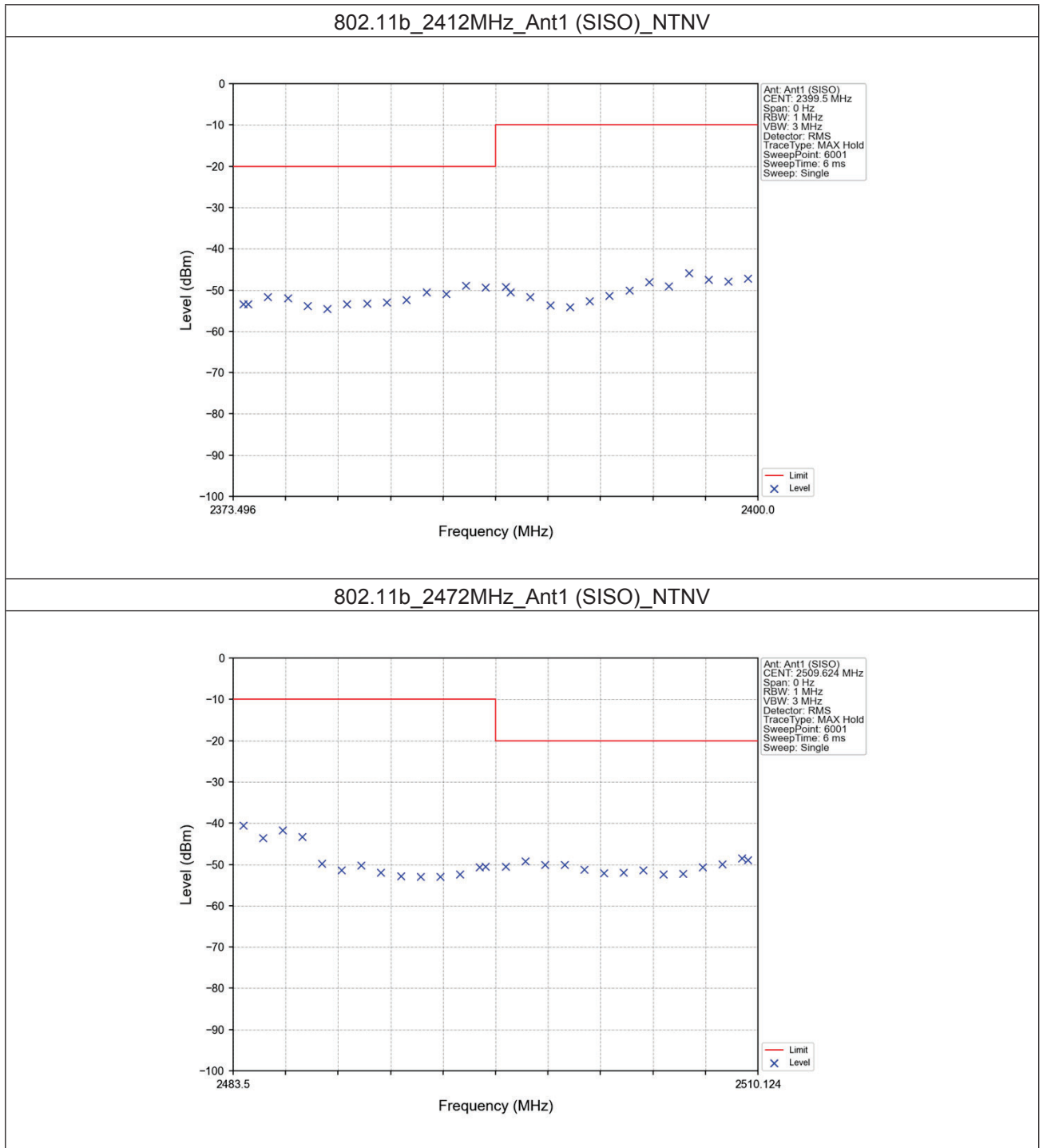


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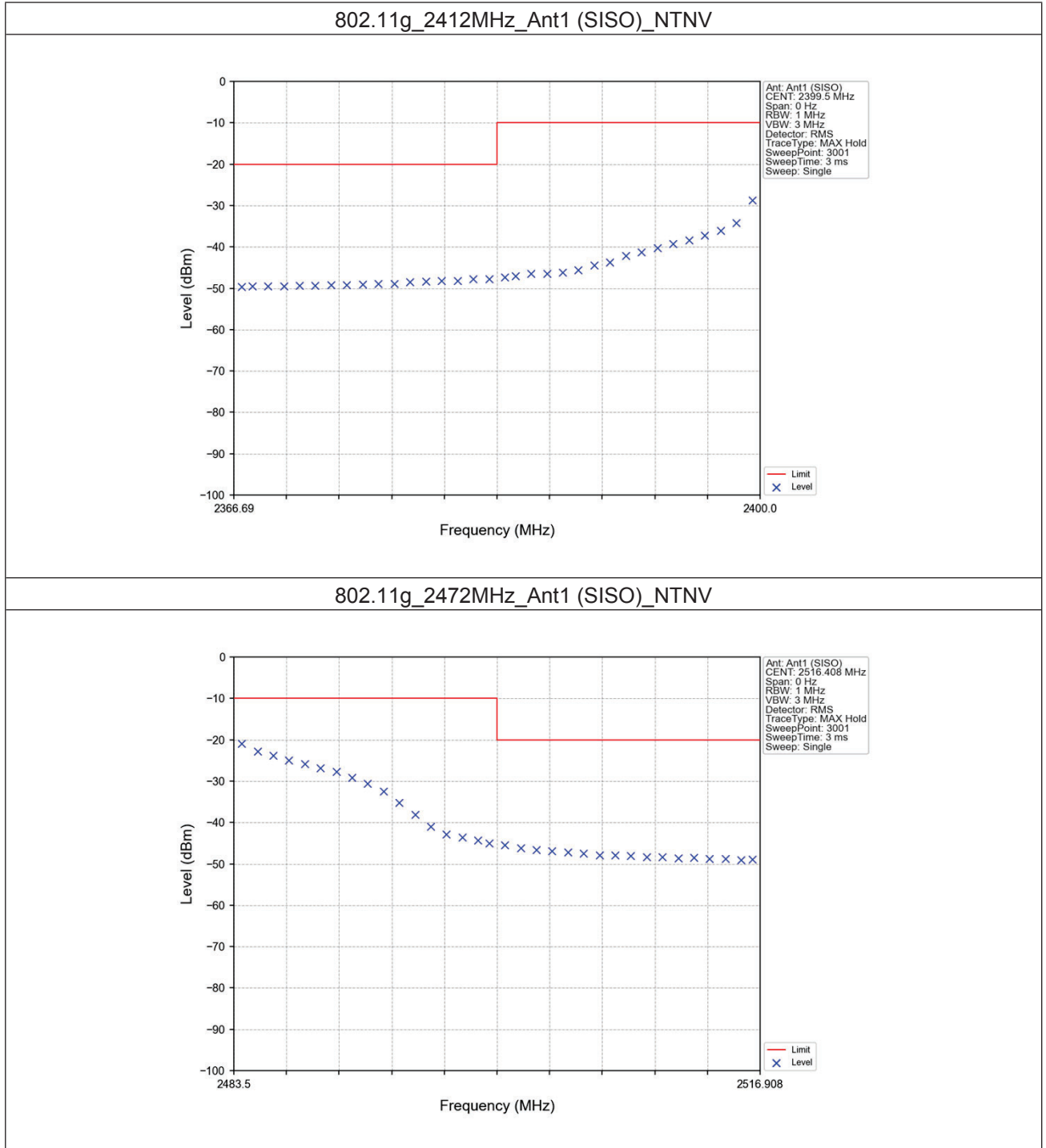
5.2 Test Graph

5.2.1 802.11b-Ant1_NTNV



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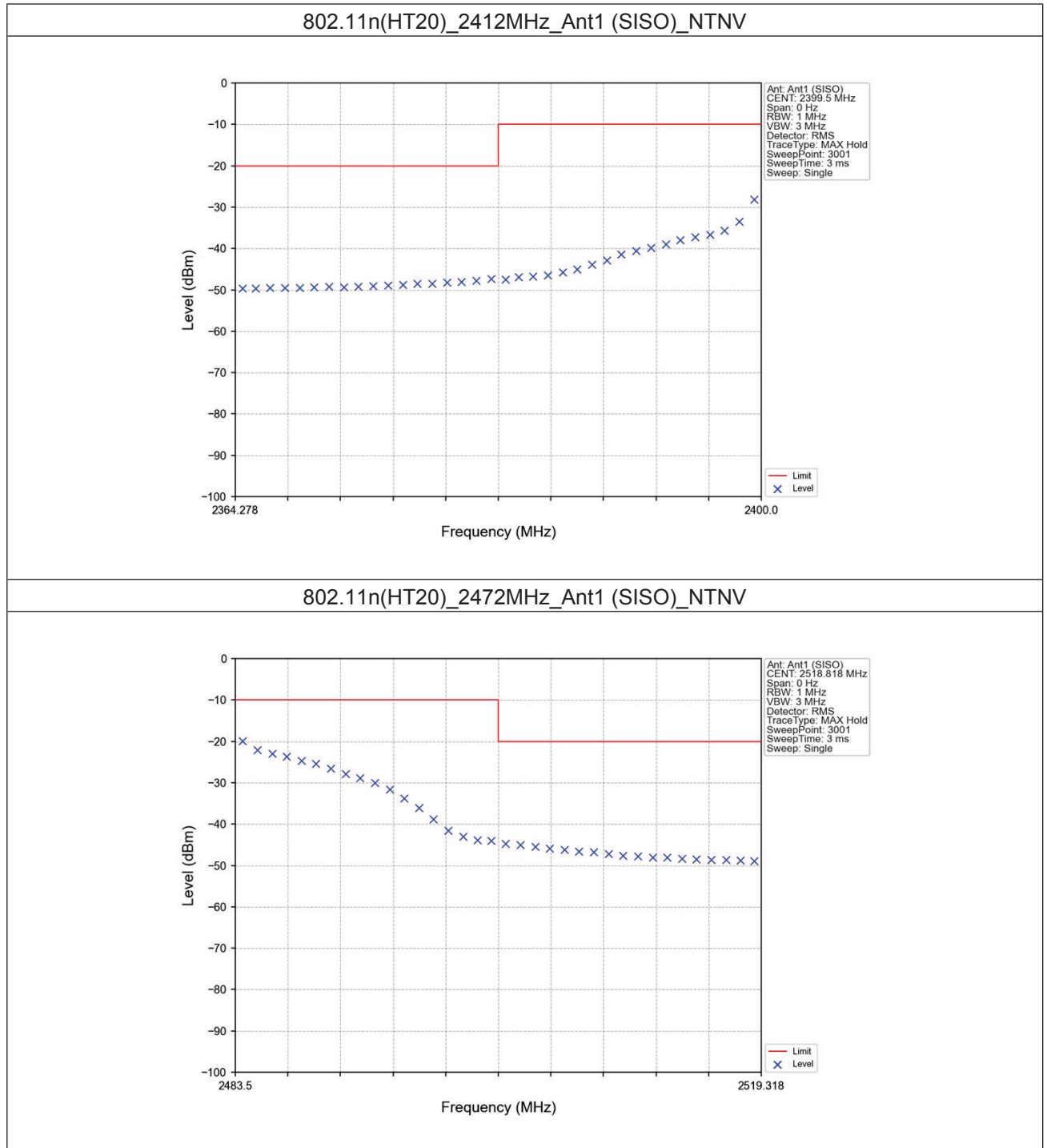
5.2.2 802.11g-Ant1_NTNV



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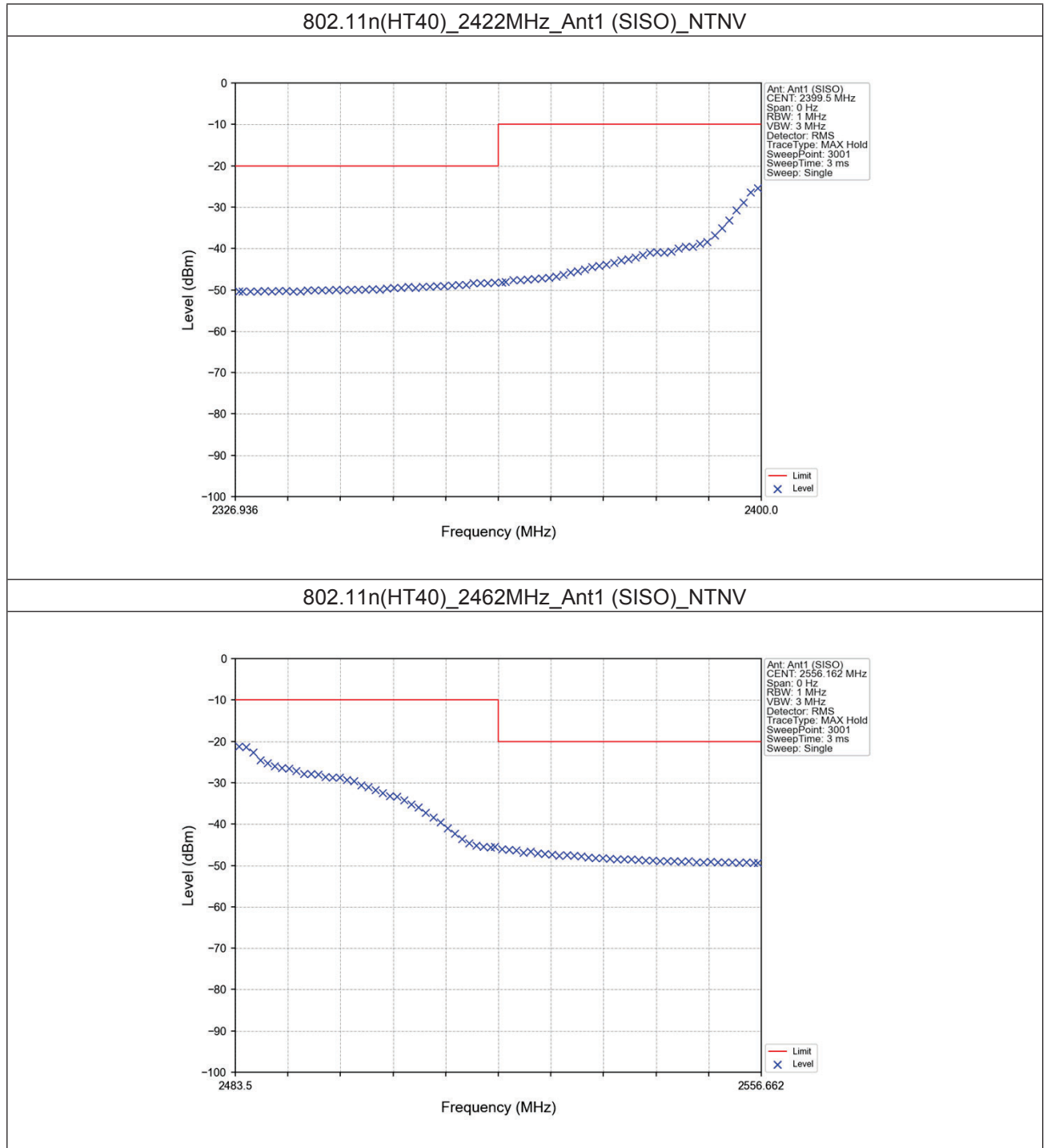
5.2.3 802.11n(HT20)-Ant1_NTNV



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5.2.4 802.11n(HT40)-Ant1_NTNV



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6. Receiver Blocking

6.1 Test Result

6.1.1 Ant1

Ant1									
ENV	Mode	TX Type	Frequency (MHz)	Wanted signal level (dBm)	Blocking Signal		PER (%)	Limit (%)	Verdict
					Frequency (MHz)	Power (dBm)			
NTNV	802.11b	SISO	2412	-68.36	2300	-28.36	4.00	<=10	Pass
					2330	-28.36	0.00	<=10	Pass
					2360	-28.36	1.00	<=10	Pass
					2380	-28.36	1.00	<=10	Pass
			2472	-62.36	2504	-28.36	2.00	<=10	Pass
					2524	-28.36	0.00	<=10	Pass
					2584	-28.36	2.00	<=10	Pass
					2674	-28.36	1.00	<=10	Pass

Note1: Receiver Category=1

- End of the Report -



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