

RADIO TEST REPORT

Product : Inspiren Link

Model Name : IN6L001

FCC ID : 2BNIV-LNK-1

Test Regulation : FCC 47 CFR Part 15 Subpart C (Section 15.247)

Received Date : 2025/12/22

Test Date : 2025/12/22 ~ 2026/01/07

Issued Date : 2026/1/20

Applicant : All Inspire Health
19 Morris Avenue, Building 128, Brooklyn, NY 11205

Issued By : Underwriters Laboratories Taiwan Co., Ltd.
Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd.,
Zhudong Township, Hsinchu County, Taiwan

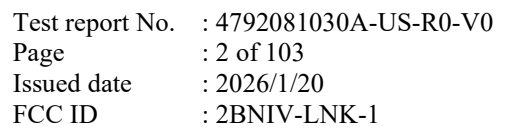


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Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 6.1



Original Test Report No.: 4792081030A-US-R0-V0

Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 6.1

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1. Attestation of Test Results

APPLICANT: All Inspire Health
19 Morris Avenue, Building 128, Brooklyn, NY 11205

MANUFACTURER: InnoComm Mobile Technology Corporation
3F, No. 6, Hsin Ann Rd., Hsinchu Science Park, Hsinchu 300092,
Taiwan

EUT DESCRIPTION: Inspiren Link

BRAND: All Inspire Health

MODEL: IN6L001

SAMPLE STAGE: Engineering Verification Test Sample

DATE of TESTED: 2025/12/22 ~ 2026/01/07

APPLICABLE STANDARDS	
STANDARD	Test Results
FCC 47 CFR PART 15 Subpart C (Section 15.247)	PASS

Underwriters Laboratories Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Underwriters Laboratories Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Underwriters Laboratories Taiwan Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Underwriters Laboratories Taiwan Co., Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Prepared By:



Sally Lu
Project Handler

Date : 2026/1/20

Approved and Authorized By:



Eric Lee
Senior Laboratory Engineer

Date : 2026/1/20

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2. Summary of Test Results

Summary of Test Results		
FCC Clause	Test Items	Result
15.247(a)(2)	6dB Bandwidth	PASS
15.247(b)	Conducted Output Power	PASS
15.247(e)	Power Spectral Density	PASS
15.247(d)	Antenna Port Emission	PASS
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	PASS
15.207	AC Power Conducted Emission	PASS
15.203	Antenna Requirement	PASS

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3. Test Methodology and Reference Procedures

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2, KDB558074 D01 Meas Guidance v05r02, KDB414788 D01 Radiated Test Site v01r01, ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 and KDB 662911 D01 Multiple Transmitter Output v02r01.

4. Facilities and Accreditation

Test Location	Underwriters Laboratories Taiwan Co., Ltd.
Address	Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
Accreditation Certificate	Underwriters Laboratories Taiwan Co., Ltd. is accredited by TAF, Laboratory Code 3398.

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5. Measurement Uncertainty

For statement of conformity, Simple acceptance (Section 3.1.4 of IEC Guide 115) was applied as decision rule for measurement in this test report.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor $k=2$.

Determining compliance based on the results of the compliance measurement, not considering measurement instrumentation uncertainty.

Measurement	Frequency	Uncertainty
Conducted disturbance at mains terminals ports	150kHz ~ 30MHz	3.0 dB
RF Conducted	9 kHz - 40GHz	2.4 dB
Radiated disturbance below 30MHz	9 kHz - 30 MHz	1.9 dB
Radiated disturbance below 1 GHz	30MHz ~ 1GHz	5.6 dB
Radiated disturbance above 1 GHz	1GHz ~ 40GHz	4.6 dB

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6. Equipment under Test

6.1. Description of EUT

Product	Inspiren Link
Brand Name	All Inspire Health
Model Name	IN6L001
Normal Voltage	120Vac/60Hz 3.2Vdc from Battery

Operating Frequency	2412MHz ~ 2462MHz
Modulation	CCK, DQPSK, DBPSK for DSSS
	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
Transfer Rate	802.11b: up to 11 Mbps
	802.11g: up to 54 Mbps
	802.11n: up to MCS15
	802.11ax: up to MCS11
Maximum Output Power	2412MHz ~ 2462MHz: 27.31 dBm
Sample ID	Conducted Test:9266372
	Radiated Test:9266370

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Note:

1. EUT provides a complete 2Tx port and 2Rx port. Please refer to the following working transmission conditions:

Modulation Mode	Tx Function	Rx Function
802.11b	2Tx	2Rx
802.11g	2Tx	2Rx
802.11n (HT20)	2Tx	2Rx
802.11ax (HE20)	2Tx	2Rx

2. EUT is equipped with a built-in rechargeable battery with the following table:

Brand	Model	Description
UTL	14500	3.2Vdc, 1.92Wh, 20250707/600mAh

3. The above EUT information is declared by manufacturer and for more detailed features description, please refer the manufacturer's or user's manual, the laboratory shall not be held responsible.
4. The EUT contains three modules, namely module 1 (BT+WLAN 2.4GHz+WLAN 5GHz), module 2 (BLE), and module 3 (LoRa). This test report is the WLAN 2.4GHz test result of module 1 (BT+WLAN 2.4GHz+WLAN 5GHz).

6.2. Channel List

11 channels are provided for WLAN 20MHz bandwidth system:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	-	-

6.3. Test Condition

Test Item	Test Site No.	Environmental	Input Power	Test Date	Tested by
Antenna Port Conducted Measurement	SR4	19~22°C/ 58~69%RH	120Vac/ 60Hz	2025/12/22~ 2026/01/07	WaterNil Guan
Radiated Spurious Emission	966-2	22~26°C/ 62~68%RH	120Vac/ 60Hz	2025/12/24~ 2026/01/03	Rex Chen
AC power Line Conducted Emission	SR1	24°C/ 62%RH	120Vac/ 60Hz	2026/01/06	Rex Chen

Sample Calculation:

Antenna Port Conducted Measurement:

- Where relevant, the follow sample calculation is provided:
Result Value (dBm) = Reading Value (dBm) + Attenuator Factor (dB) + Cable Loss (dB).
Example: Result Value (10dBm) = Reading Value (-2dBm) + Attenuator Factor (10dB) + Cable Loss(2dB).
*Test plot only shown the “Result Value”.

Radiated Spurious Emission:

- Where relevant, the follow sample calculation is provided:
Result Value (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Preamp Factor (dB).
Example: Result Value (34.5dBuV/m) = Reading Value (40.1dBuV) + Antenna Factor (18.7dB/m) + Cable Loss (4.2dB) - Preamp Factor (28.5dB).

AC power Line Conducted Emission:

- Where relevant, the follow sample calculation is provided:
Result Value (dBuV) = Reading Value (dBuV) + Correction Factor (dB).
Correction Factor (dB) = Insertion loss(dB) + Cable loss(dB).
Example: Result Value (53.7dBuV) = Reading Value (35.1dBuV) + Insertion loss(18.1dB) + Cable loss(0.5dB).

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6.4. Description of Available Antennas

Ant. No.	Transmitter Circuit	Frequency Range	Brand Name	Model Name	Maximum Gain (dBi)	Ant. Type	Connector Type
BT/WIFI 1	Chain0	2412~2472MHz	Innocomm	Ext_WIFI1	2.38	Monopole	i-Pex
WIFI 2	Chain1	2412~2472MHz	Innocomm	Ext_WIFI2	2.74	Monopole	i-Pex

Note: The above antenna information was provided from customer and for more detailed features description, please refer the manufacturer's specification or user's manual, the laboratory shall not be held responsible.

6.5. Test Mode Applicability and Tested Channel Detail

Test Item	Mode	Modulation Technology	Available Channel	Test Channel	Data Rate
Radiated Bandedge	802.11b	DSSS	1 to 11	1,6,11	1 Mbps
	802.11g	OFDM	1 to 11	1,6,11	6 Mbps
	802.11n (HT20)	OFDM	1 to 11	1,6,11	MCS0 Nss1
	802.11ax (HE20)	OFDM	1 to 11	1,6,11	MCS0 Nss1
Radiated Emissions (Above 1GHz)	802.11b	DSSS	1 to 11	1,6,11	1 Mbps
	802.11g	OFDM	1 to 11	1,6,11	6 Mbps
Radiated Emissions (Below 1GHz)	802.11b	DSSS	1 to 11	1	1 Mbps
AC Power Line Conducted Emission	802.11g	OFDM	1 to 11	6	6 Mbps
Antenna Port Conducted Measurement	802.11b	DSSS	1 to 11	1,6,11	1 Mbps
	802.11g	OFDM	1 to 11	1,6,11	6 Mbps
	802.11n (HT20)	OFDM	1 to 11	1,6,11	MCS0 Nss1
	802.11ax (HE20)	OFDM	1 to 11	1,6,11	MCS0 Nss1

- The EUT was examined in three orthogonal axes (X-Y, Y-Z, X-Z), and the X-Y plane was confirmed as the worst-case orientation. All final radiated emission tests were conducted with the EUT positioned accordingly.
- The EUT operates on a rechargeable battery. A pre-scan was conducted at 0%, 50%, and 100% battery capacity. The worst-case emissions occurred at 100% capacity, so only the corresponding test data is documented in this report.
- The radiated spurious emission test was performed in all test modes. The worst case was 802.11b, 802.11g, and 802.11n(HT20), and therefore, only the worst case data is shown in this report to represent all test modes.
- In the transmit mode, 802.11g channel 6 has the highest RF output power. Therefore, the AC conduction was performed using this worst-case mode.
- In transmit mode, 802.11b channel 1 has the worst case of Tx spurious emission (above 1GHz). Therefore, all final tests for the spurious emission (below 1GHz) were performed using this worst-case mode.
- For Antenna Port Conducted Measurement, this item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Simultaneously transmission condition:

Condition	Technology				
1	Module1			Module2	Module3
	BT	WLAN (2.4GHz)	WLAN (5GHz)	BT LE	LoRa

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

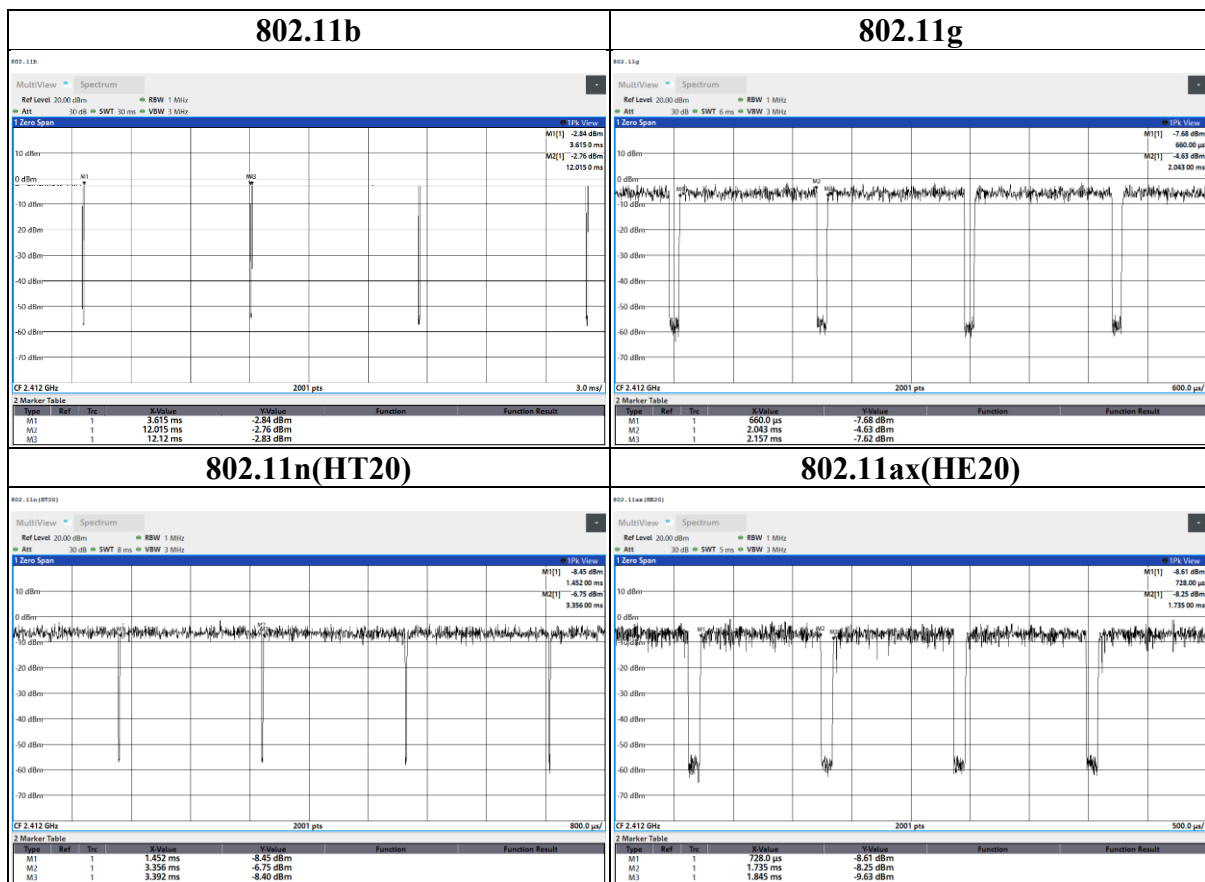
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6.6. Duty cycle

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle	Duty Factor (dB)	VBW Set (above 1GHz)
802.11b	8.400	8.505	0.9877	N/A	10Hz
802.11g	1.383	1.497	0.9238	0.34	1kHz
802.11n(HT20)	1.904	1.940	0.9814	N/A	10Hz
802.11ax(HE20)	1.007	1.117	0.9015	0.45	1kHz



7. Test Equipment

Test Equipment List					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Expired date
Radiated Spurious Emission					
Spectrum Analyzer	Keysight	N9010A	MY56070818	2025/3/12	2026/3/11
EMI Test Receiver	Rohde & Schwarz	ESR7	101754	2024/12/24	2025/12/23
				2025/12/9	2026/12/8
Loop Antenna	ETS lindgren	6502	00213440	2025/11/14	2026/11/13
Trilog-Broadband Antenna with 5dB Attenuator	Schwarzbeck & EMCI	VULB 9168 & N-6-05	774 & AT-N0538	2024/12/30	2025/12/29
				2025/12/23	2026/12/22
Horn Antenna (1-18 GHz)	Schwarzbeck	BBHA 9120 D	01690	2025/11/18	2026/11/17
Horn Antenna (18-40 GHz)	Schwarzbeck	BBHA 9170	781	2025/12/2	2026/12/1
Preamplifier (30-1000 MHz)	EMCI	EMC330E	980405	2025/5/12	2026/5/11
Preamplifier (1-18 GHz)	EMCI	EMC051835BE	980406	2025/1/13	2026/1/12
Preamplifier (18-40GHz)	EMCI	EMC184040SEE	980426	2025/4/7	2026/4/6
Cables (9k-18 GHz)	Hanyitek	K1K50-UP0264-K1K50-2500	170214-4 & 170425-2	2025/11/21	2026/11/20
Cables (18-40GHz)	Hanyitek	K1K50-UP0264-K1K50-2500	170214-1 & 170214-2	2025/11/21	2026/11/20

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Test Equipment List					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Expired date
Antenna Port Conducted Measurement					
Signal Analyzer	Rohde & Schwarz	FSVA3044	101281	2025/3/5	2026/3/4
Signal Analyzer	Rohde & Schwarz	FSV40	101490	2025/6/17	2026/6/16
Attenuator	EMCI	EMC-40ATK2W10	17002	2025/10/28	2026/10/27
USB Power Sensor	Anritsu	MA24408A	12031	2025/6/24	2026/6/23
Temperature & Humidity Test Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA1701-010	2025/2/25	2026/2/24
AC power Line Conducted Emission					
EMI Test Receiver	Rohde & Schwarz	ESR7	101753	2025/9/18	2026/9/17
Two-Line V-Network	Rohde & Schwarz	ENV216	102136	2025/5/27	2026/5/26
Impuls-Begrenzer Pulse Limiter	Rohde & Schwarz	ESH3-Z2	102219-Qt	2025/8/27	2026/8/26
Cables	TITAN	CFD200	T0732ACFD 20020A300-2	2025/4/21	2026/4/20

UL Software		
Description	Name	Version
Radiated measurement	e3	6.191211 (V6)
Conducted measurement	RF-Conducted-FCC 15247	ver 1.0
AC power Line Conducted Emission	EZ_EMC	UL-3A1.2

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8. Description of Test Setup

Tx Mode

Support Equipment

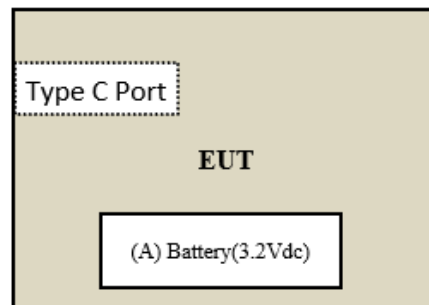
ID	Equipment	Brand Name	Model Name	S/N	Remark
A	Battery	UTL	14500	N/A	Provide by Client 3.2Vdc

Test Setup

Controlled using a bespoke application (ADB interface version 1.0.32) on a test Notebook.
The application was used to enable a continuous transmission mode and to select the test channels, data rates, modulation schemes and power setting as required.

Setup Diagram for Test

Tx Mode



Under Table

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9. Test Results

9.1. 6dB Bandwidth

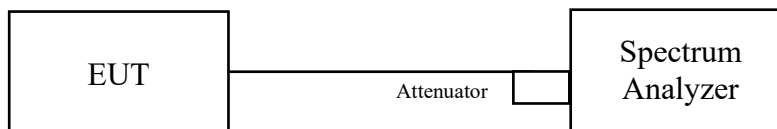
Requirements

The minimum 6 dB bandwidth shall be at least 500 kHz.

Test procedure

- Set resolution bandwidth (RBW) = Range of 1% to 5% of the OBW but not less than 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

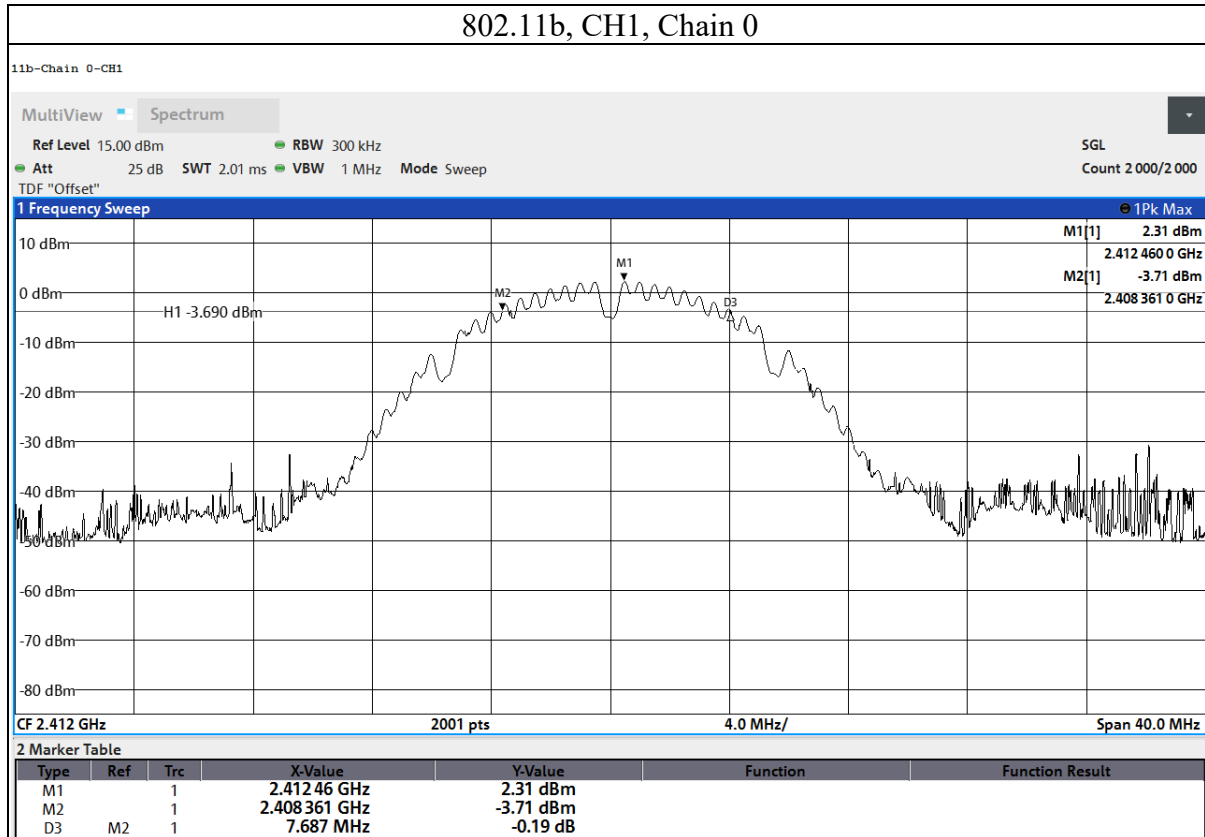
Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

Test Data

Mode	CH	Freq (MHz)	6dB BW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11b	1	2412	7.687	8.080	0.5	PASS
	6	2437	7.691	8.106	0.5	PASS
	11	2462	8.092	8.107	0.5	PASS



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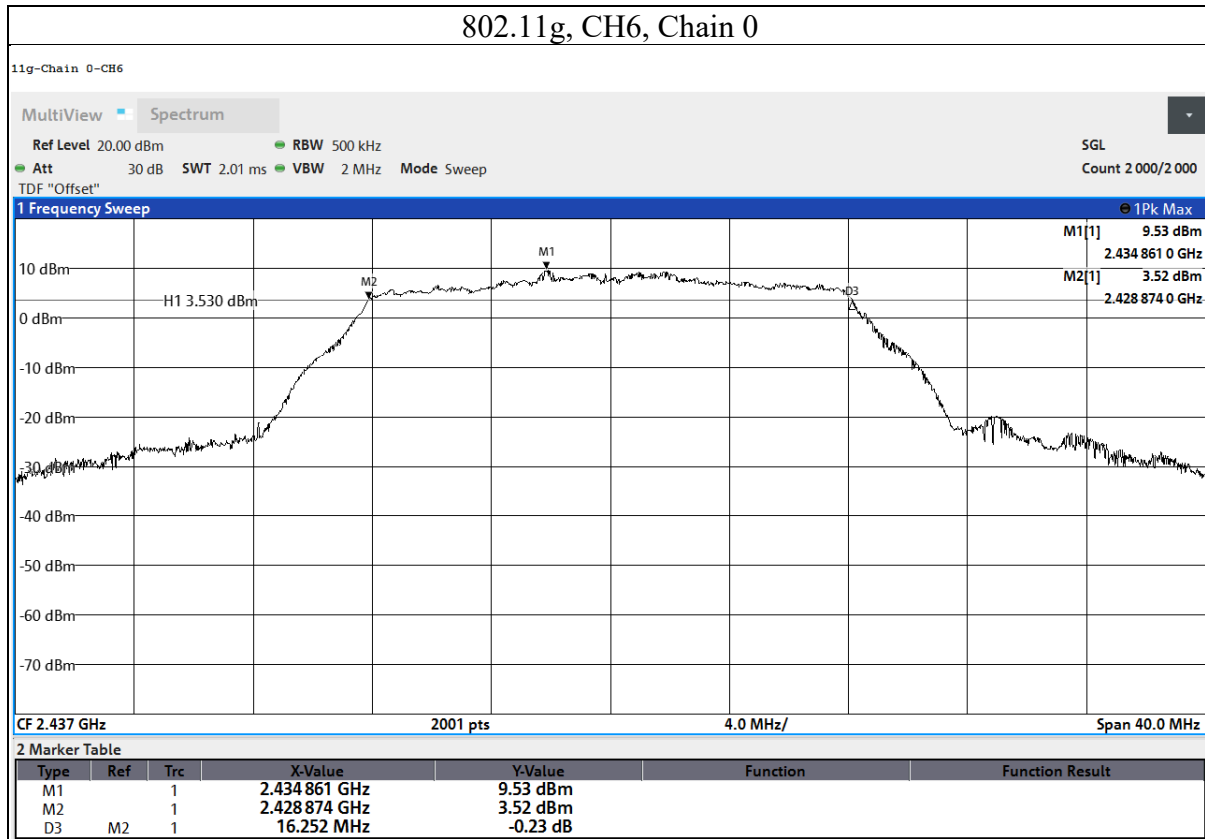
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Mode	CH	Freq (MHz)	6dB BW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11g	1	2412	16.275	16.505	0.5	PASS
	6	2437	16.252	16.367	0.5	PASS
	11	2462	16.366	16.532	0.5	PASS



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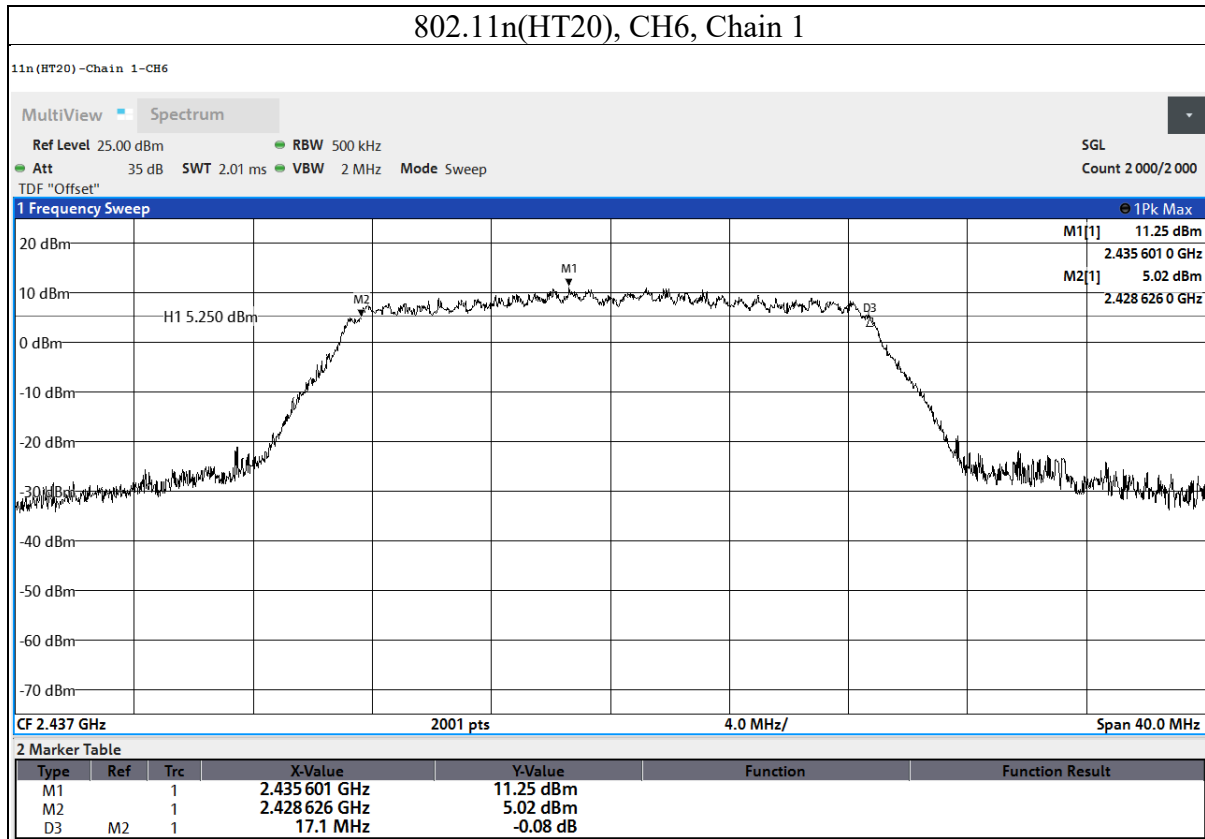
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Mode	CH	Freq (MHz)	6dB BW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11n(HT20)	1	2412	17.380	17.576	0.5	PASS
	6	2437	17.617	17.100	0.5	PASS
	11	2462	17.435	17.549	0.5	PASS



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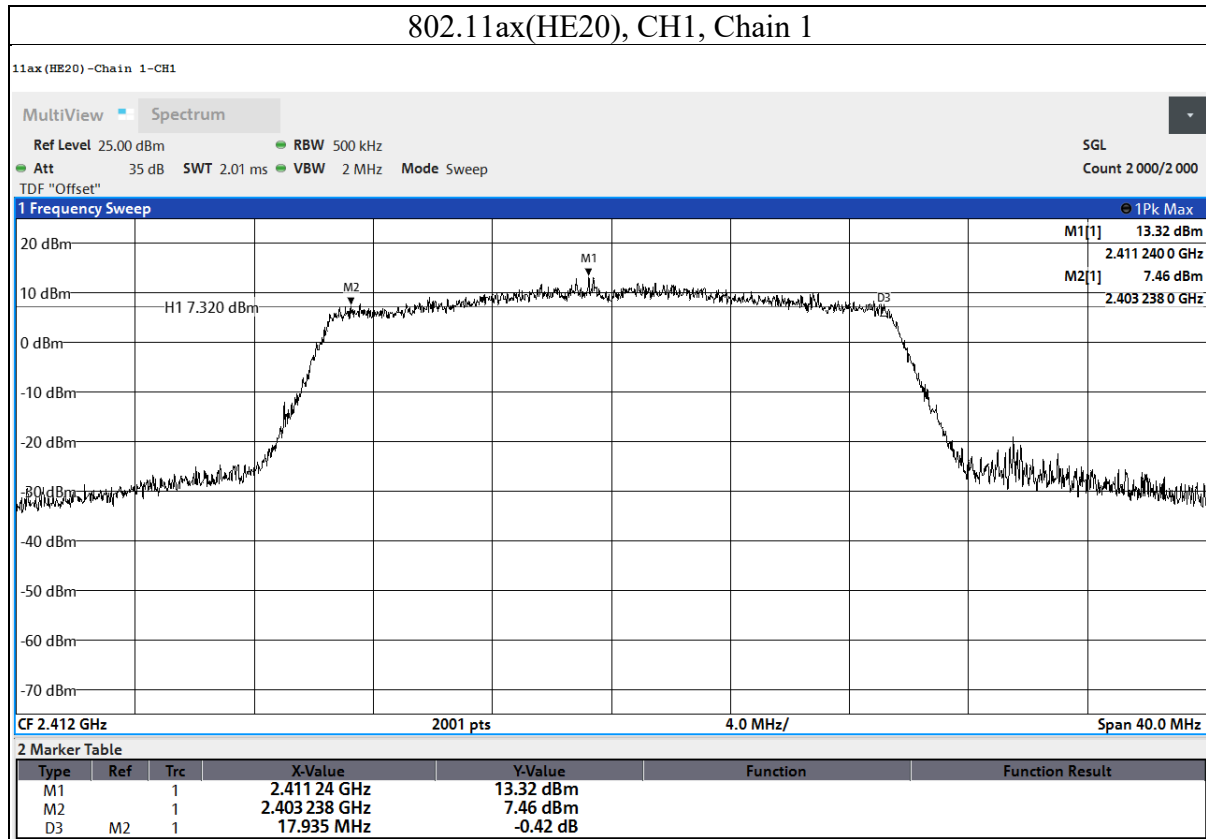
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Mode	CH	Freq (MHz)	6dB BW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11ax(HE20)	1	2412	18.391	17.935	0.5	PASS
	6	2437	18.551	17.989	0.5	PASS
	11	2462	18.703	18.124	0.5	PASS



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9.2. Conducted Output Power

Requirements

For systems using digital modulation in the 2400-2483.5 MHz bands: 1 Watt.

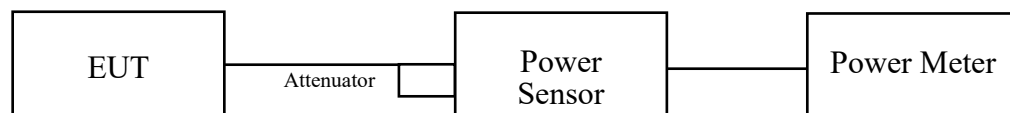
Note:

1. P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi, B is the 26 dB emission bandwidth in megahertz
2. If EUT with Multiple Transmitter Output:
 - a. Directional Gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20})^2 / \text{Nant}]$ dBi.
Nant: Number of Transmit Antennas
 $G1, G2, \dots, Gn$: Gain of Individual Antennas
Example: two antenna and gain 5 dBi / 3dBi, so if it was used for TxBF power measurement
Directional Gain = $10 \log[(105/20 + 103/20)^2 / 2]$ dBi = 7.07 dBi
 - b. Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices, CDD
Array Gain = 0 dB (i.e., no array gain) for $\text{NANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;
Array Gain = $5 \log(\text{NANT}/\text{NSS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $\text{NANT} \geq 5$.
Example: Maximum antenna gain = 5 dBi and $\text{NANT} \leq 4$, so if it was used for CDD power measurement
Directional Gain = 5 dBi + Array Gain = 5 dBi + 0 dB = 5 dBi
 - c. For power measurement of KDB 662911 is used with multiple transmitter output. Total conducted power is the sum of the conducted power levels measured at the various output ports.

Test Procedure

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Test Setup



The loss between RF output port of the EUT and the input port of the Power Meter has been taken into consideration.

Test Data

Mode	CH	Freq. (MHz)	Peak Power (dBm)		Total PK Power (mW)	Total PK Power (dBm)	AVG Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Result
			Chain 0	Chain 1			Chain 0	Chain 1				
802.11b	1	2412	13.05	13.83	44.361	16.47	10.16	10.96	22.856	13.59	30	PASS
	6	2437	14.52	15.42	63.096	18	11.7	12.81	33.884	15.3	30	PASS
	11	2462	14.68	15.44	64.417	18.09	11.83	12.78	34.198	15.34	30	PASS
802.11g	1	2412	23.15	24.63	496.592	26.96	14.63	15.72	66.374	18.22	30	PASS
	6	2437	23.62	24.89	538.27	27.31	14.89	15.85	69.343	18.41	30	PASS
	11	2462	23.4	24.67	511.682	27.09	14.52	15.47	63.533	18.03	30	PASS
802.11n(HT20)	1	2412	22.63	23.77	421.697	26.25	13.46	14.96	53.456	17.28	30	PASS
	6	2437	23.18	24.86	514.044	27.11	13.92	15.03	56.494	17.52	30	PASS
	11	2462	23.11	24.9	514.044	27.11	13.61	15.23	56.364	17.51	30	PASS
802.11ax(HE20)	1	2412	22.13	23.74	399.945	26.02	13.62	15.08	55.208	17.42	30	PASS
	6	2437	22.9	24.89	503.501	27.02	13.9	15.15	57.28	17.58	30	PASS
	11	2462	22.97	24.63	488.652	26.89	13.6	15.19	55.976	17.48	30	PASS

Note: Average Power is for reference Only.

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Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 6.1

9.3. Power Spectral Density

Requirements

The Maximum of Power Spectral Density Measurement is 8dBm in any 3 kHz (If $G_{TX} > 6$ dBi, then $PSD = 8 - (G_{TX} - 6)$).

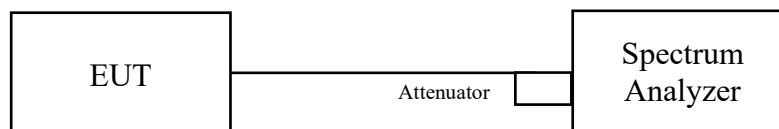
Note:

1. PSD = power spectral density that the same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz.
2. G_{TX} = the maximum transmitting antenna directional gain in dBi.
3. If EUT with Multiple Transmitter Output:
 - a. Directional Gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20})^2 / Nant]$ dBi.
Nant: Number of Transmit Antennas
 $G1, G2, \dots, Gn$: Gain of Individual Antennas
Example: two antenna and gain 5 dBi / 3dBi, so if it was used for power density measurement
Directional Gain = $10 \log[(10^{5/20} + 10^{3/20})^2 / 2]$ dBi = 7.07 dBi
 - b. "PSD per chain" of the report shown is maximum value for each chain, at the "Total PSD" is summing entire spectra across corresponding frequency bins on the various outputs by computer, refer KDB 662911 Method a) for calculating total power density.
 - c. Method a) of power density measurement of KDB 662911 is used for calculating total power density with multiple transmitter output. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

Test procedure

- a. Set analyzer center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: $3 \text{ kHz} \leq RBW \leq 100 \text{ kHz}$.
- d. Set the VBW $\geq 3 \times RBW$.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level within the RBW.

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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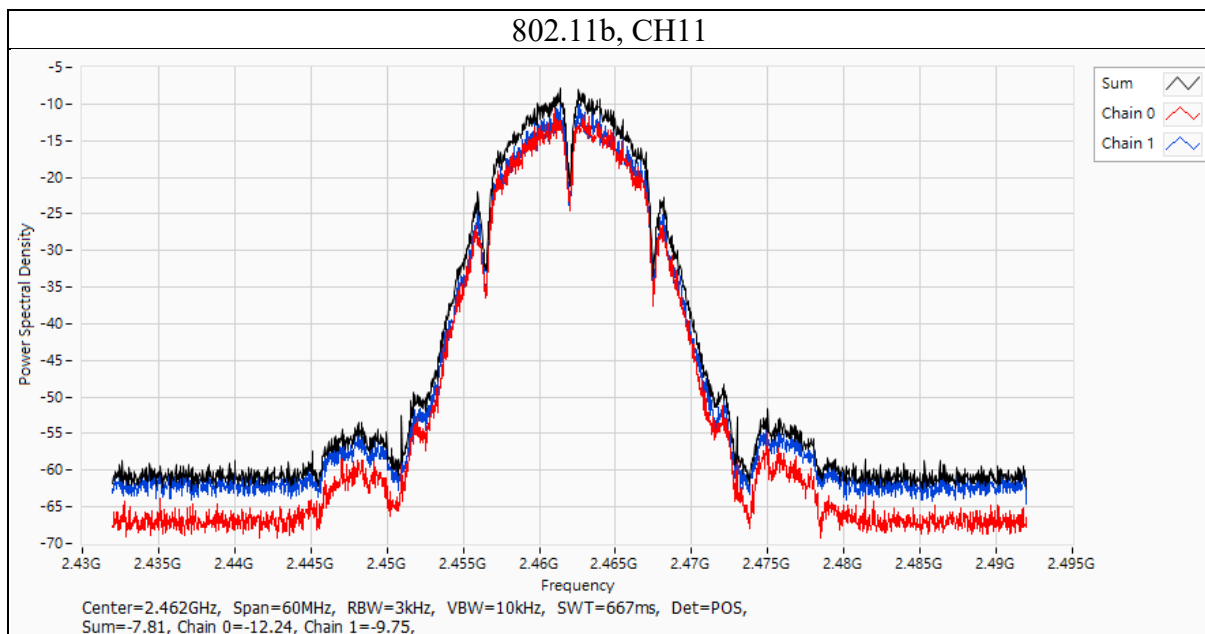
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Test Data

Mode	CH	Freq (MHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Directional Gain (dBi)	Result
802.11b	1	2412	-10.02	8	5.57	PASS
	6	2437	-7.84	8	5.57	PASS
	11	2462	-7.81	8	5.57	PASS

Mode	CH	Freq (MHz)	PSD per Chain (dBm/3kHz)	
			Chain 0	Chain 1
802.11b	1	2412	-12.41	-11.78
	6	2437	-10.48	-10.46
	11	2462	-10.83	-9.53



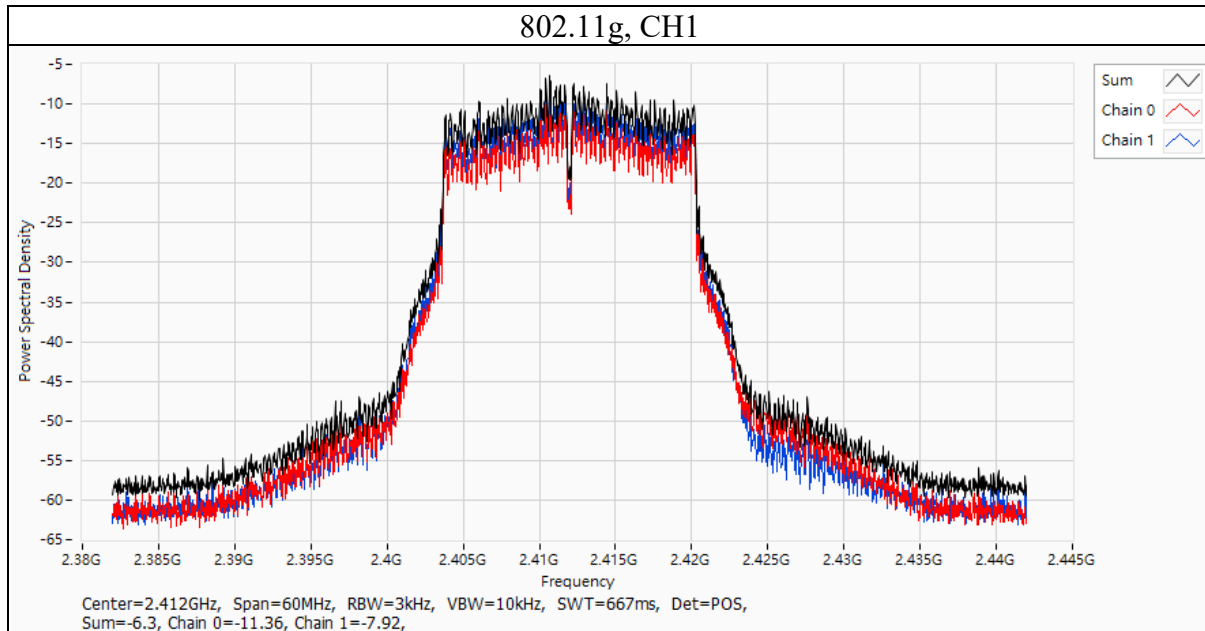
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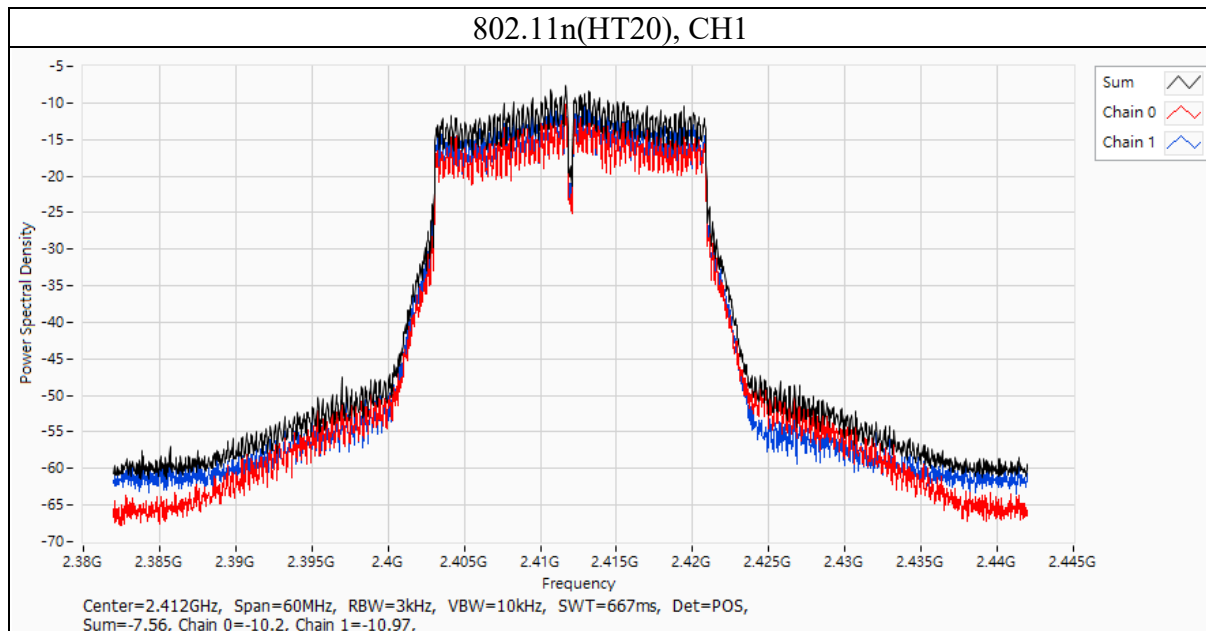
Mode	CH	Freq (MHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Directional Gain (dBi)	Result
802.11g	1	2412	-6.3	8	5.57	PASS
	6	2437	-6.85	8	5.57	PASS
	11	2462	-7.2	8	5.57	PASS

Mode	CH	Freq (MHz)	PSD per Chain (dBm/3kHz)	
			Chain 0	Chain 1
802.11g	1	2412	-10.22	-7.92
	6	2437	-9.71	-8.19
	11	2462	-10.36	-9.42



Mode	CH	Freq (MHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Directional Gain (dBi)	Result
802.11n(HT20)	1	2412	-7.56	8	5.57	PASS
	6	2437	-7.96	8	5.57	PASS
	11	2462	-8.33	8	5.57	PASS

Mode	CH	Freq (MHz)	PSD per Chain (dBm/3kHz)	
			Chain 0	Chain 1
802.11n(HT20)	1	2412	-10.2	-10.11
	6	2437	-10.49	-9.42
	11	2462	-10.64	-9.96



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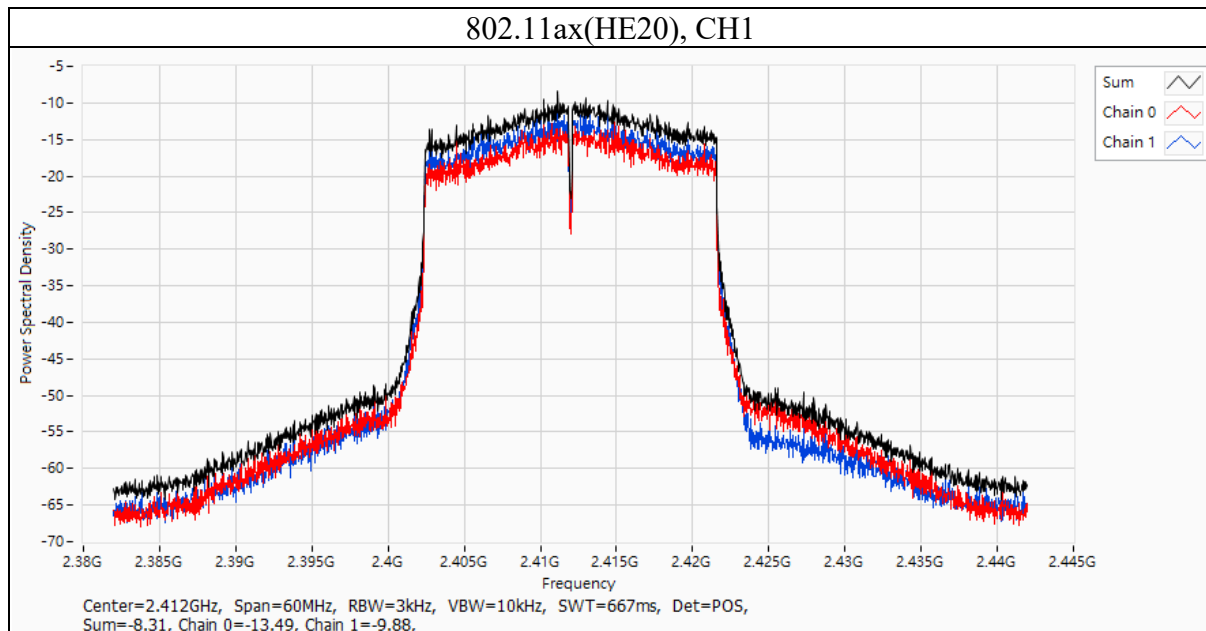
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Mode	CH	Freq (MHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Directional Gain (dBi)	Result
802.11ax(HE20)	1	2412	-8.31	8	5.57	PASS
	6	2437	-8.33	8	5.57	PASS
	11	2462	-8.88	8	5.57	PASS

Mode	CH	Freq (MHz)	PSD per Chain (dBm/3kHz)	
			Chain 0	Chain 1
802.11ax(HE20)	1	2412	-12.67	-9.88
	6	2437	-11.05	-9.4
	11	2462	-12.39	-10.39



9.4. Conducted Out of Band Emission

Requirements

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

Test procedure

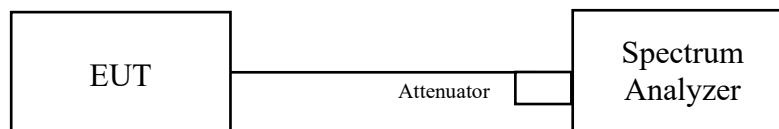
Measurement Procedure REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Set the span to 1.5 times the DTS bandwidth.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

Measurement Procedure OOBE

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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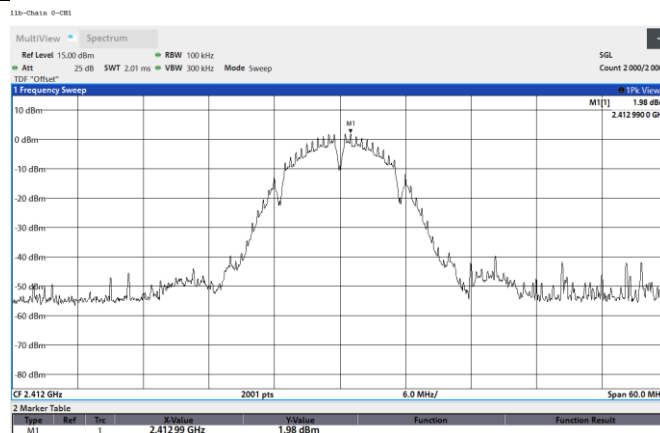
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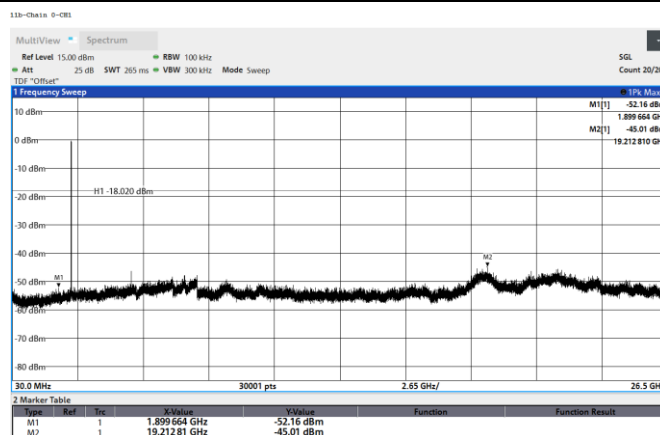
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Test Data

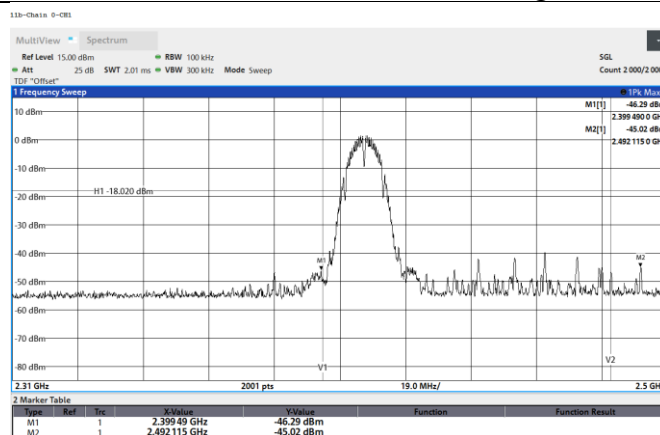
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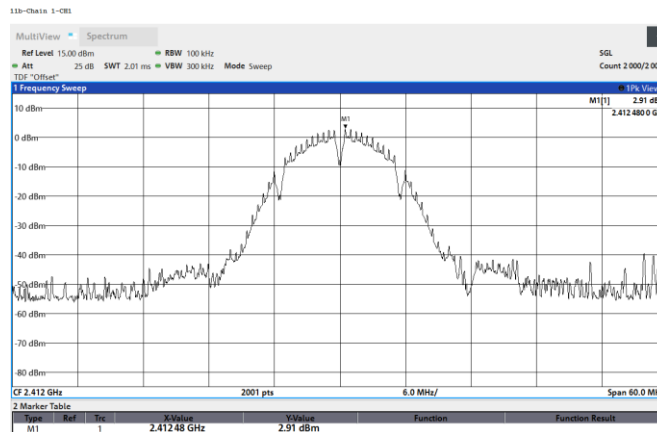
802.11b, CH1, Chain 0, Conducted Emission



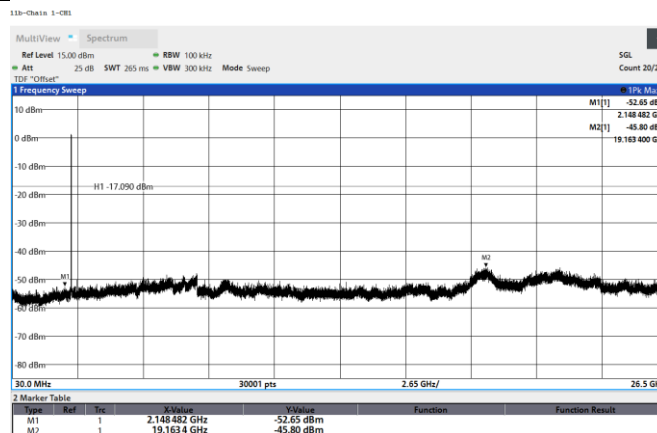
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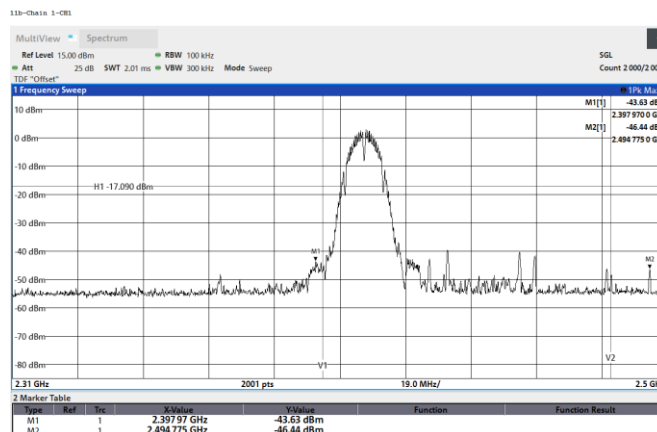
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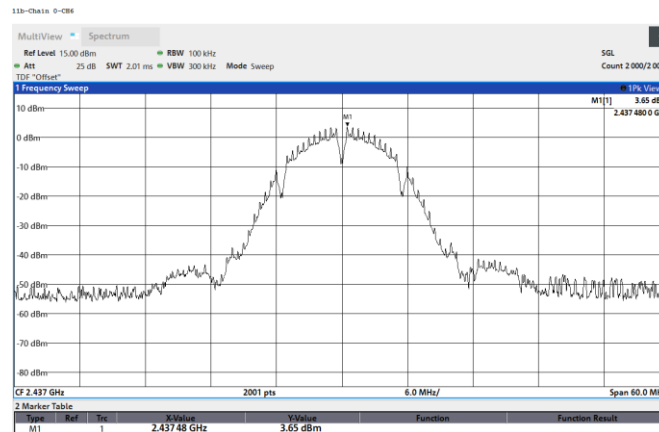
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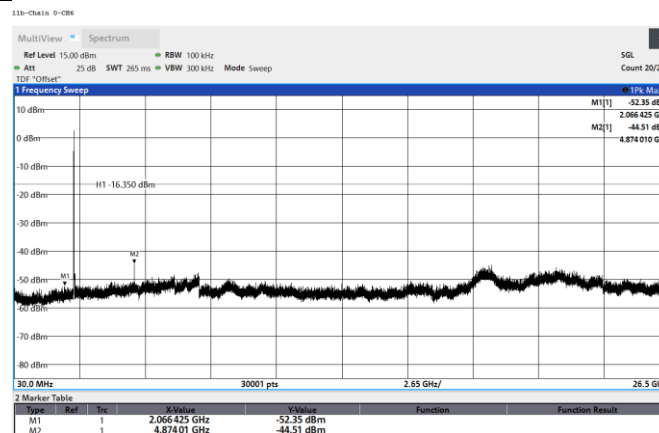
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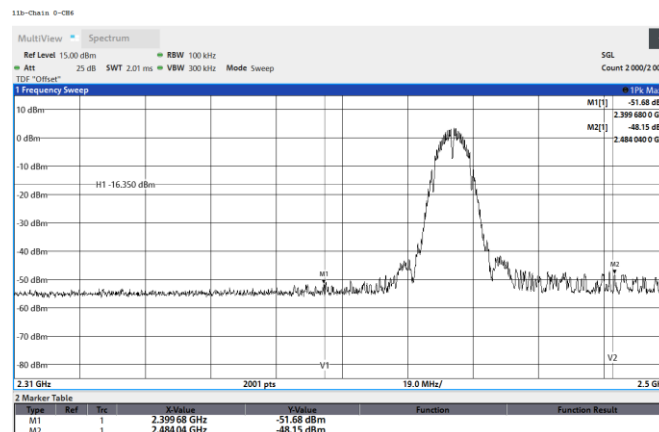
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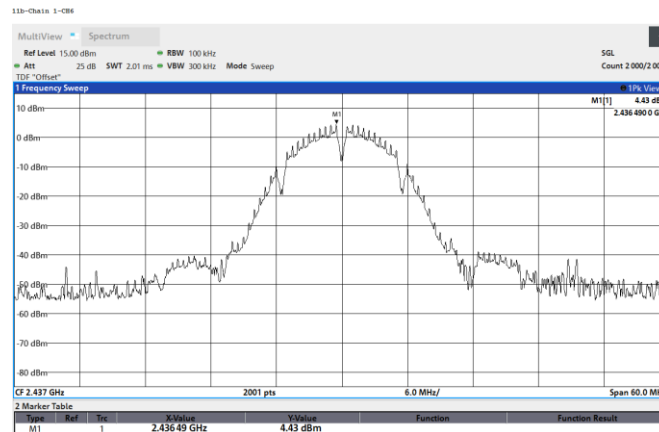
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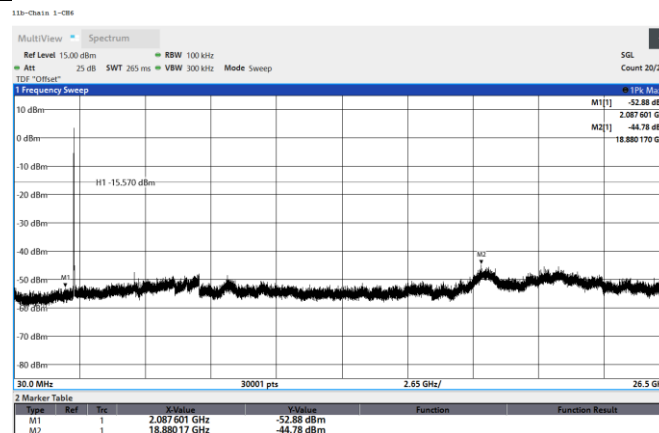
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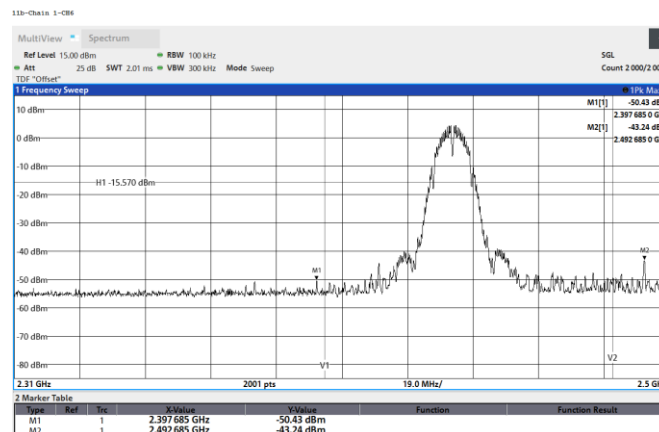
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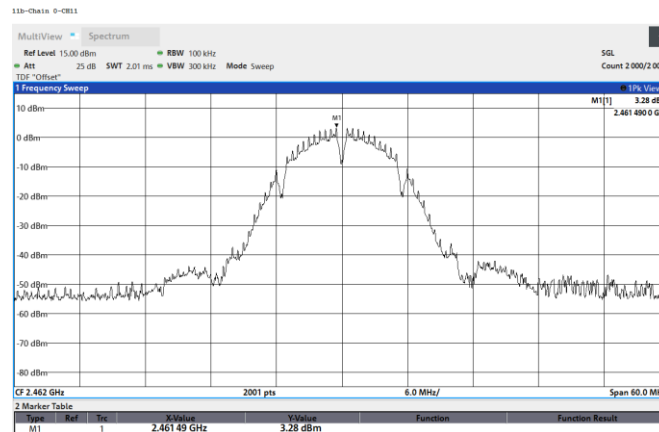
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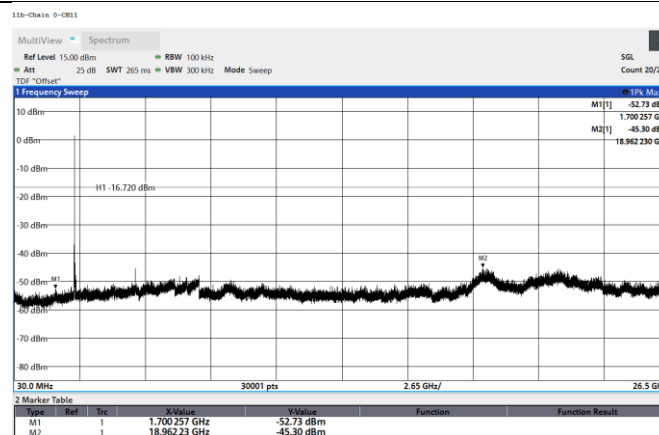
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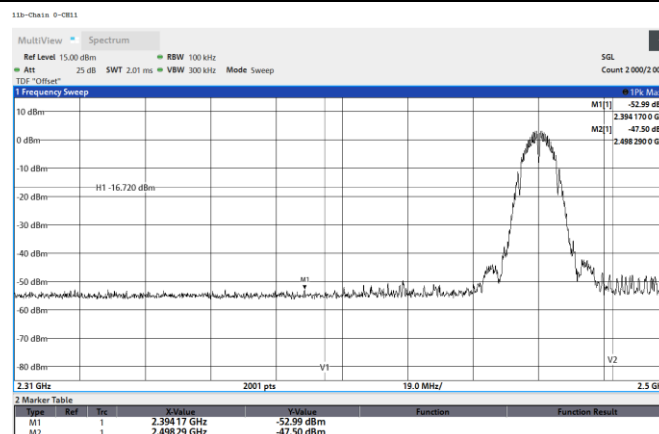
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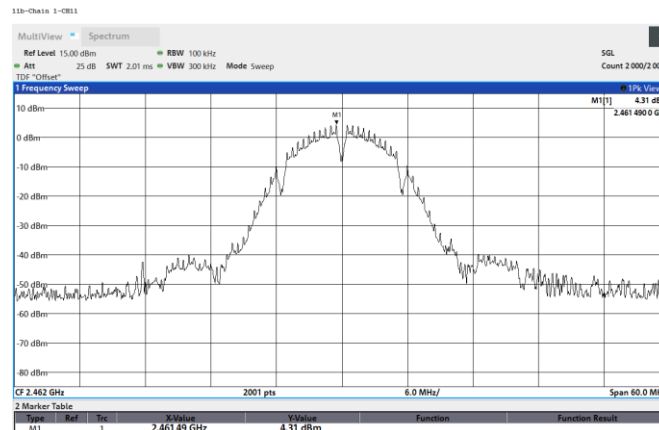
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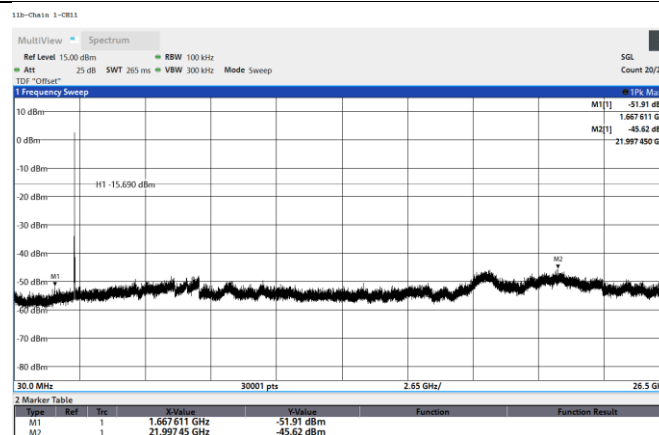
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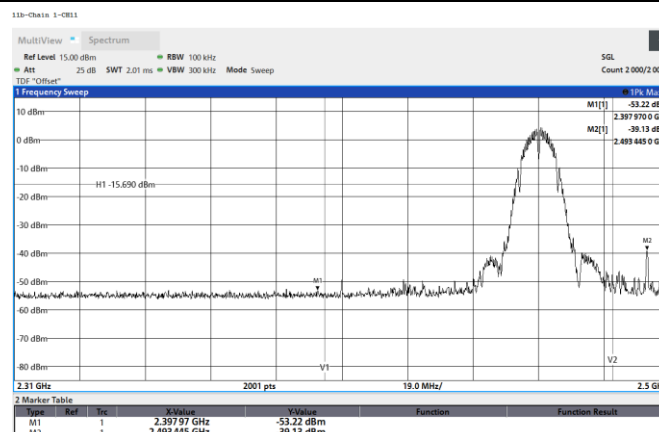
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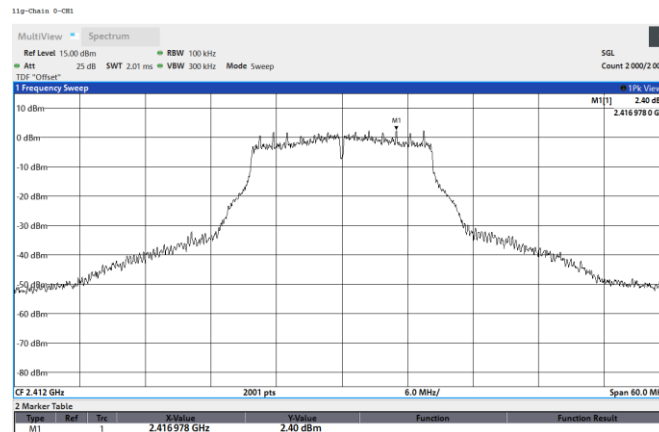
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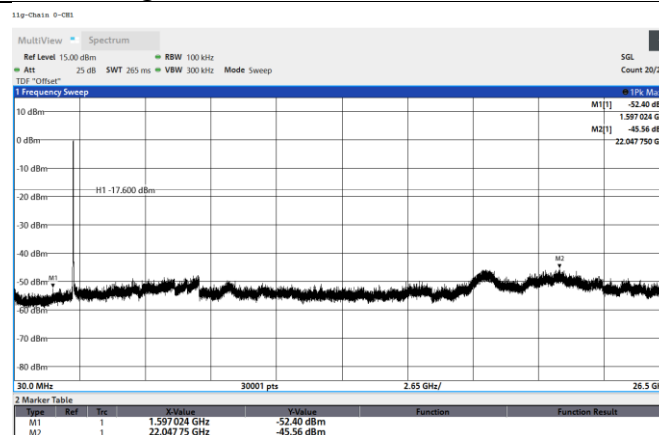
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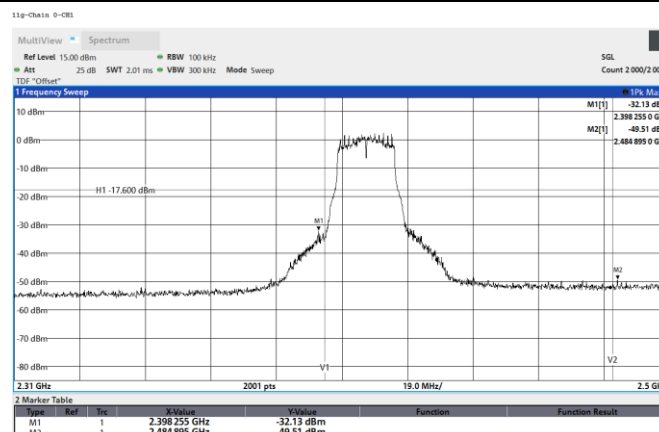
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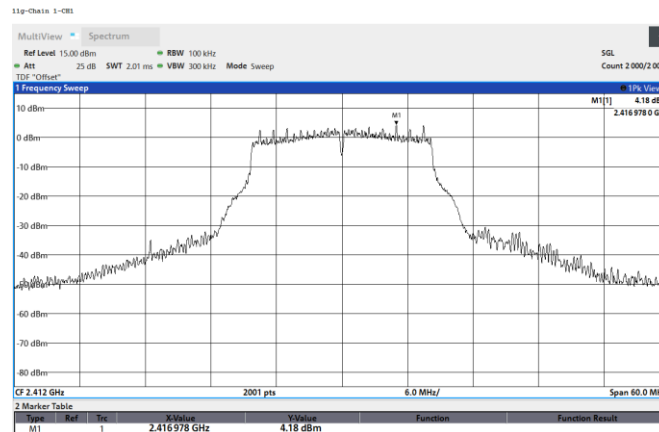
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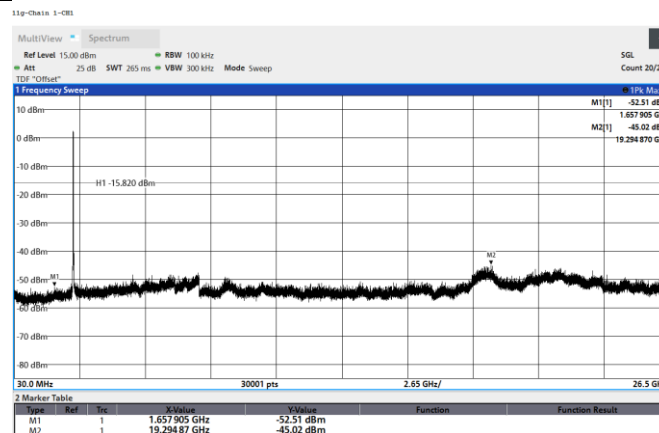
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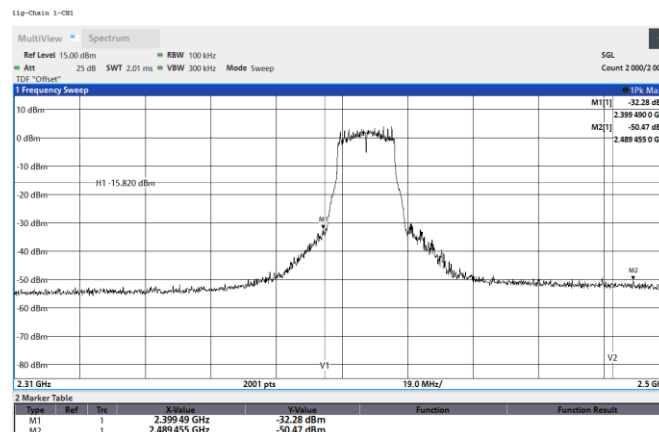
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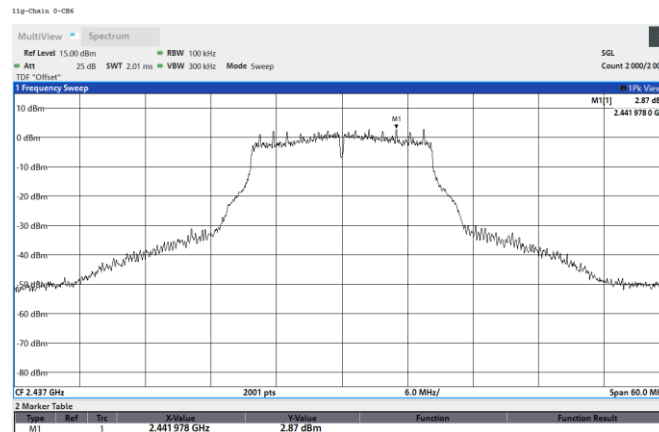
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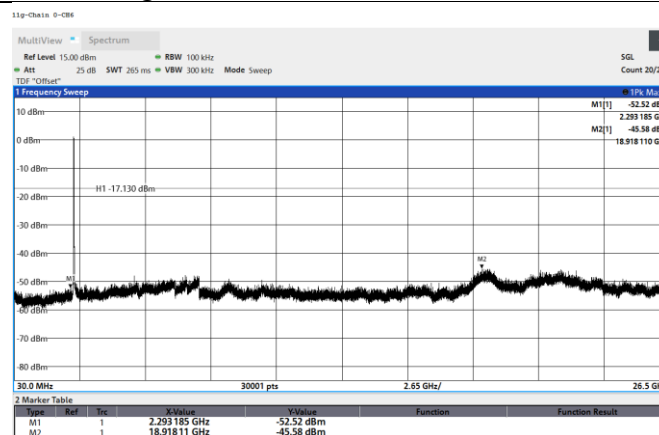
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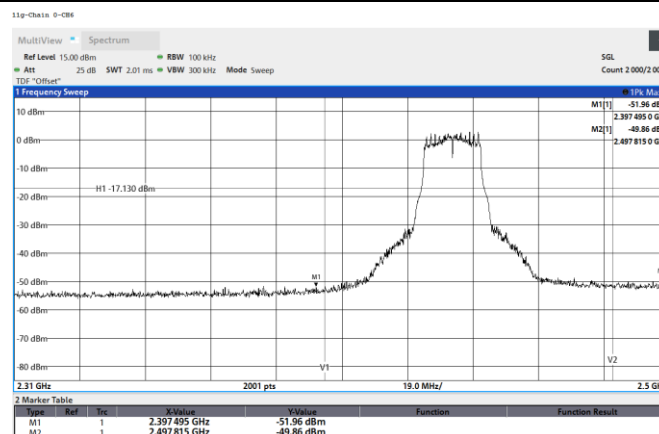
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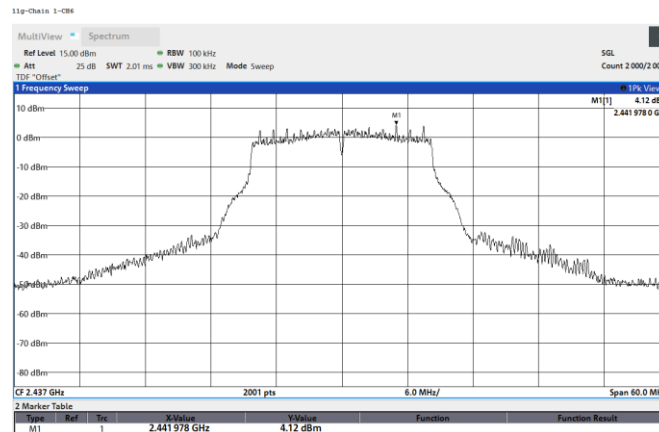
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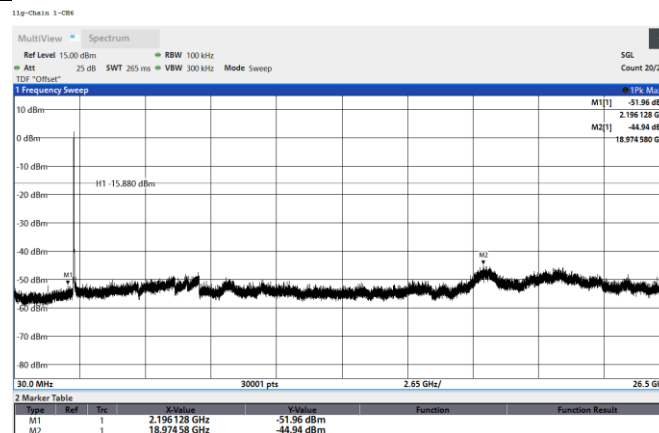
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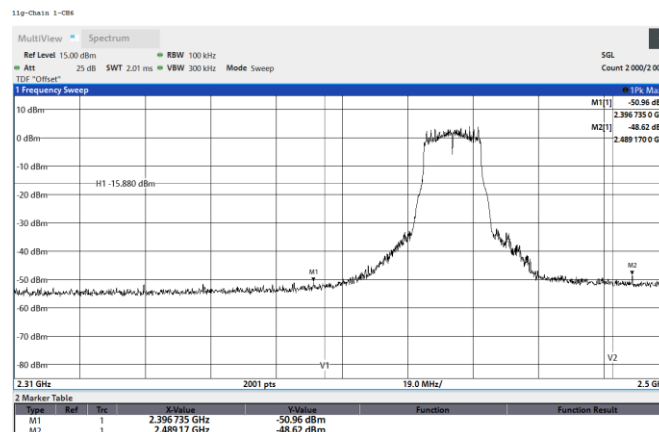
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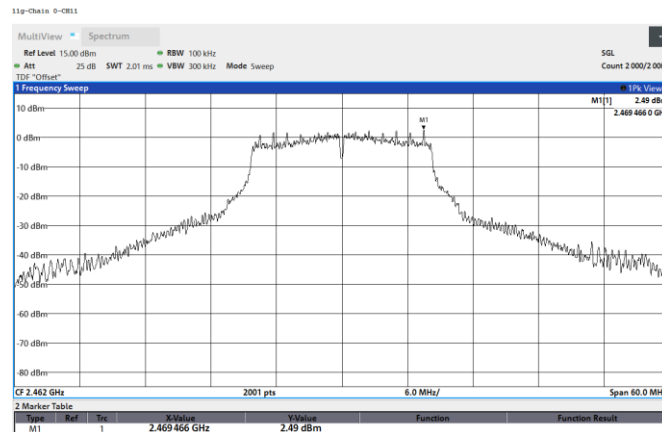
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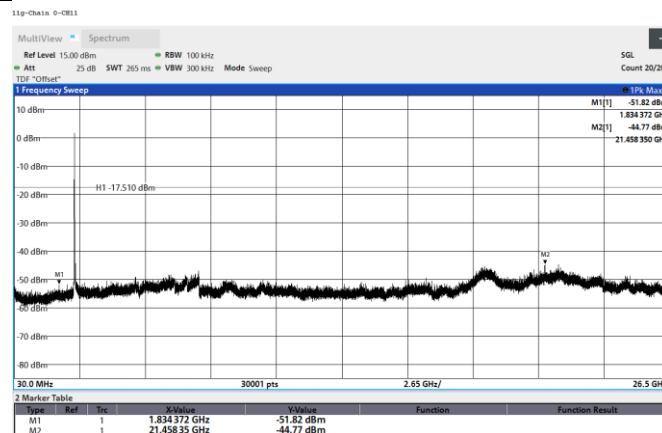
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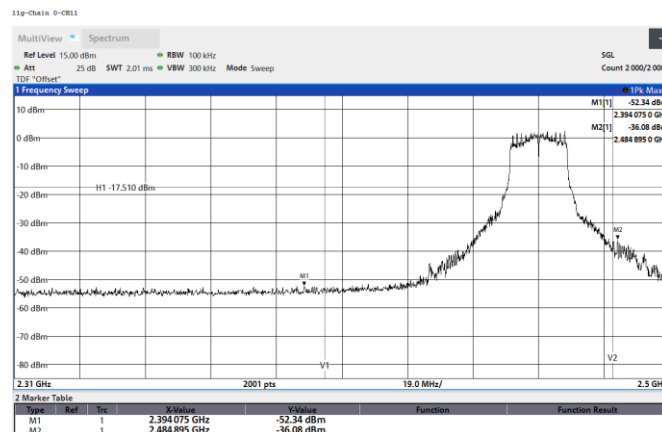
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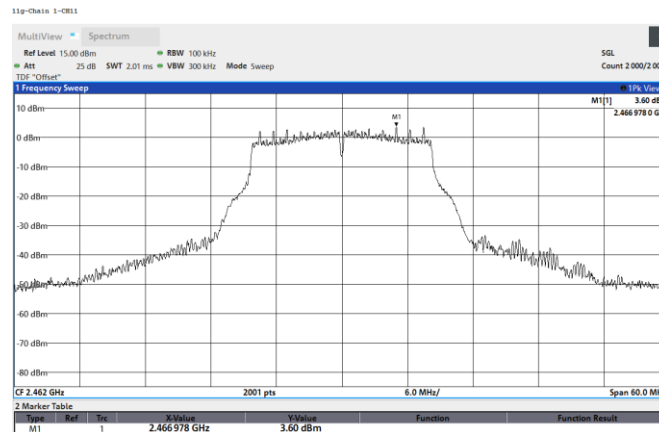
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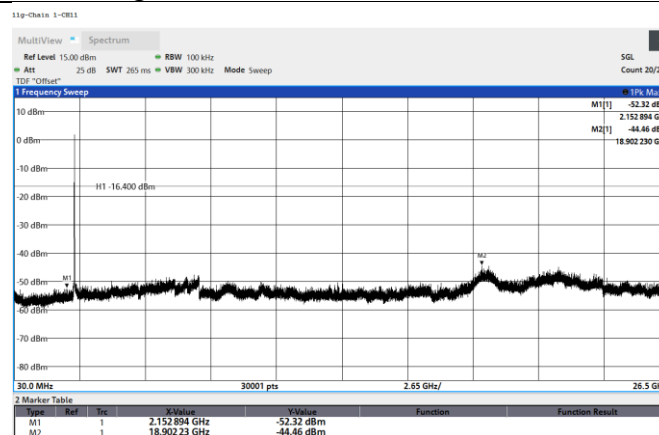
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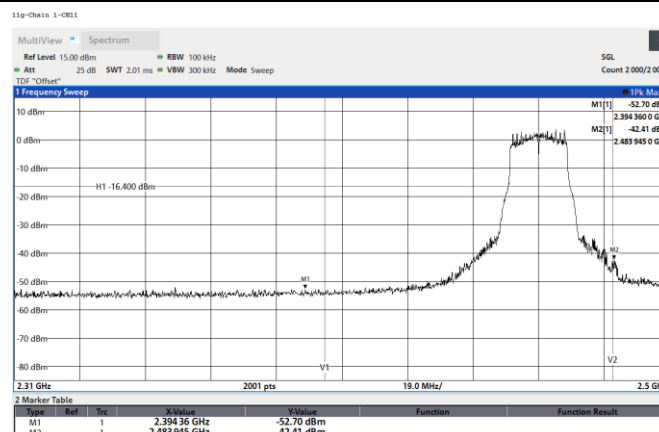
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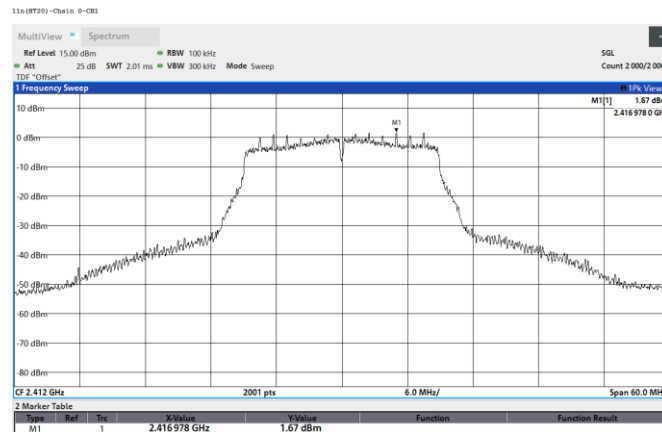
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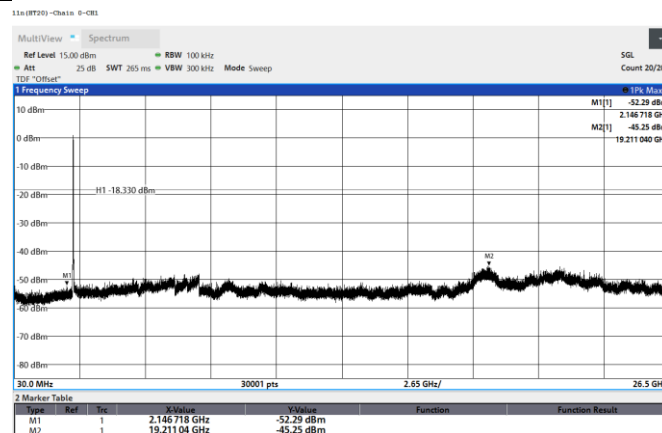
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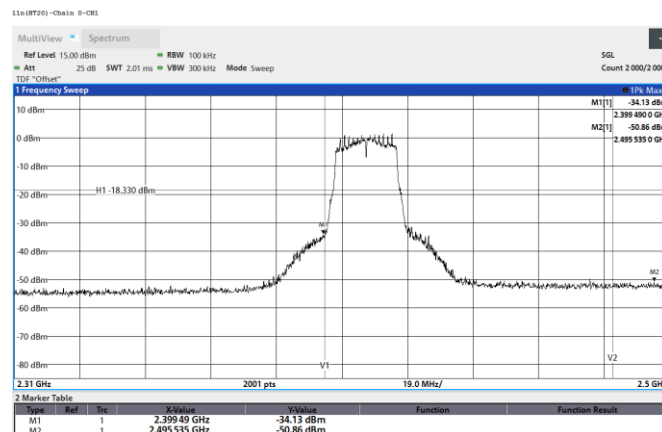
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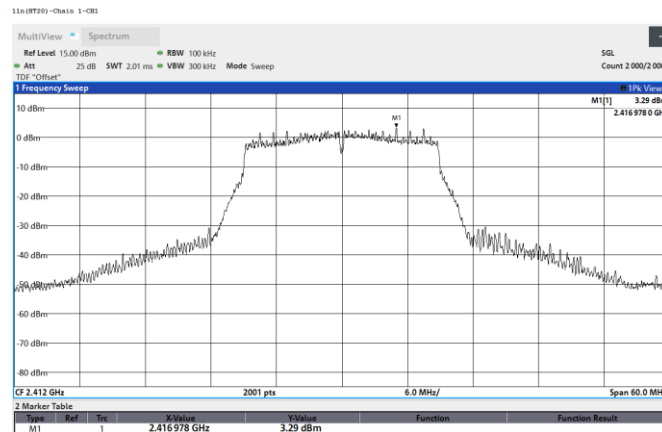
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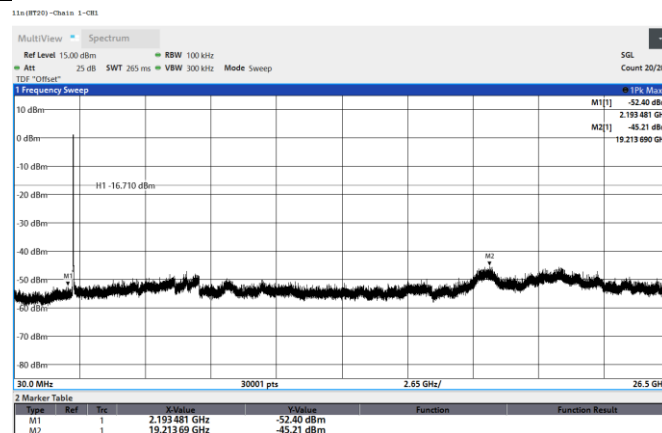
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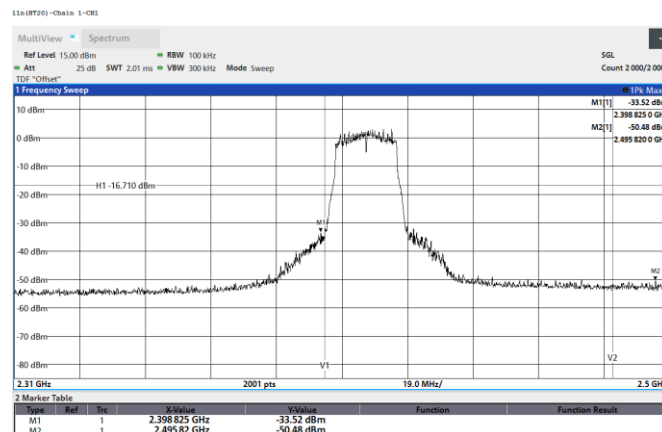
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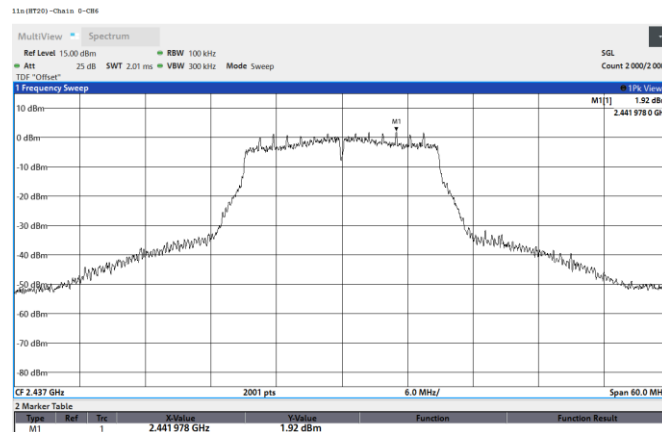
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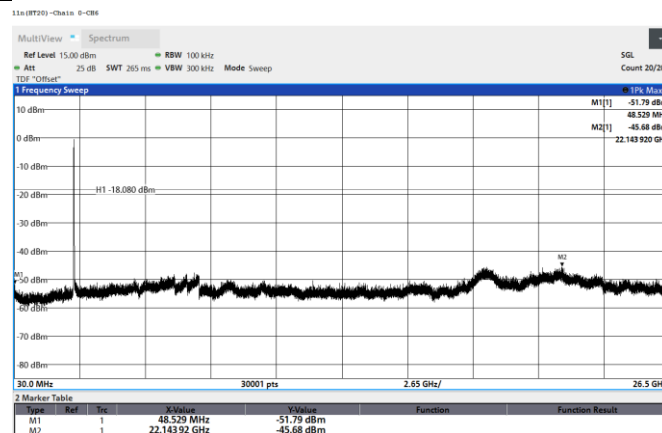
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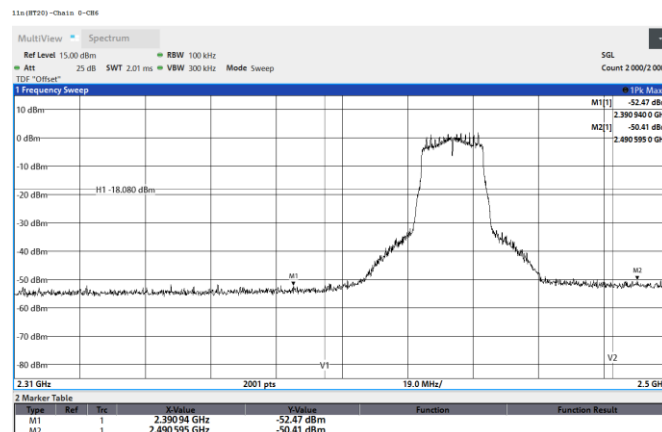
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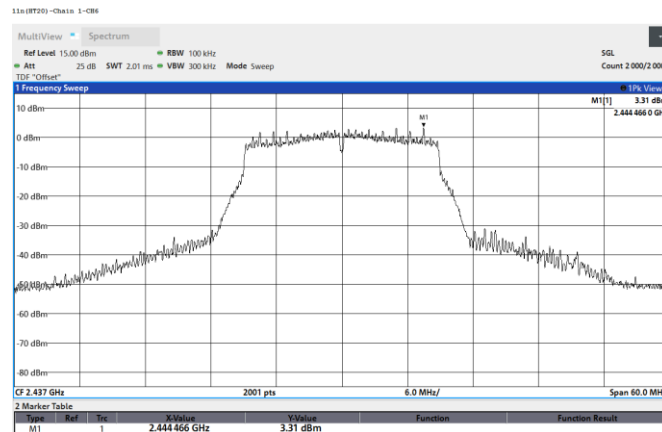
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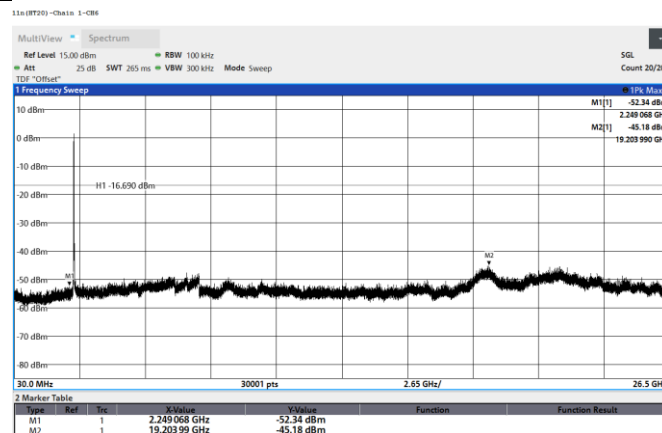
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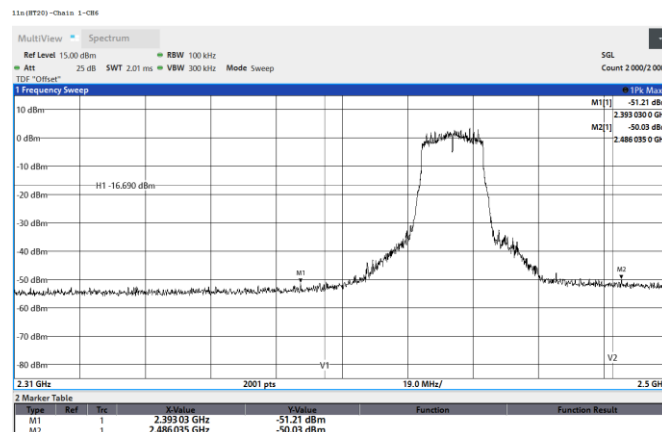
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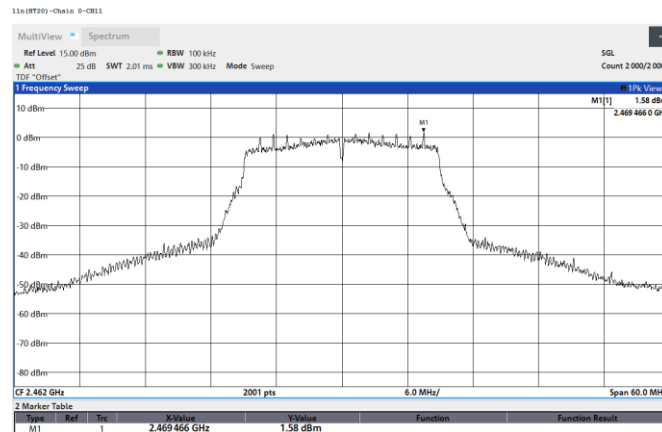
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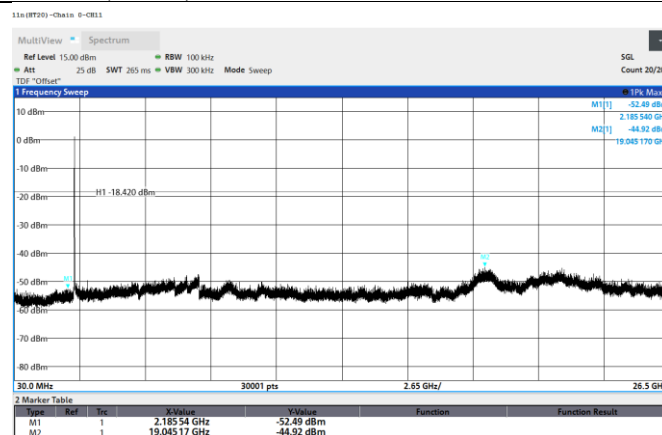
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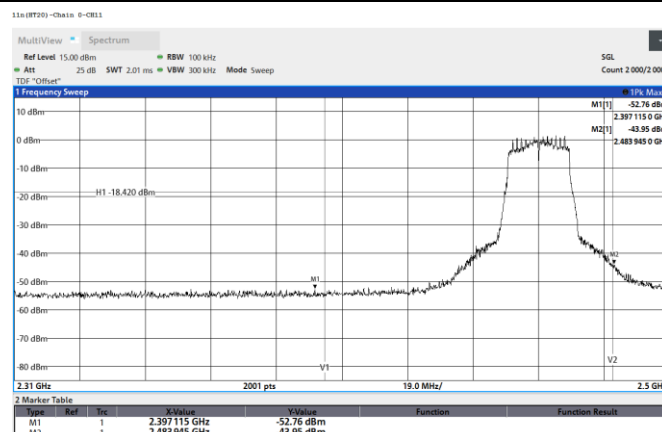
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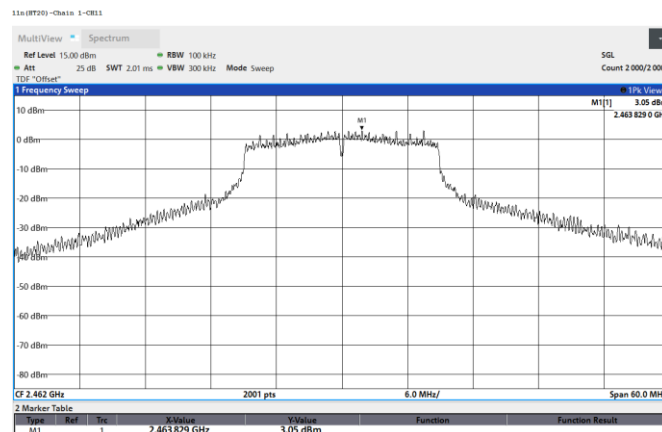
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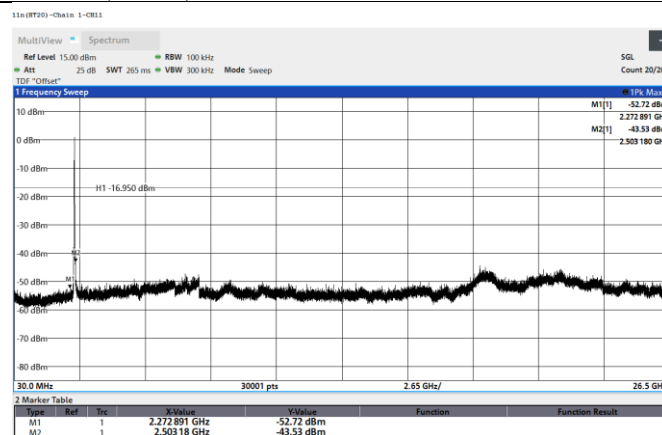
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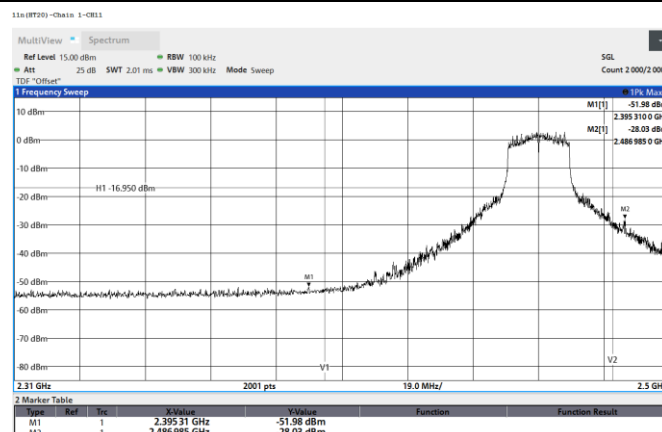
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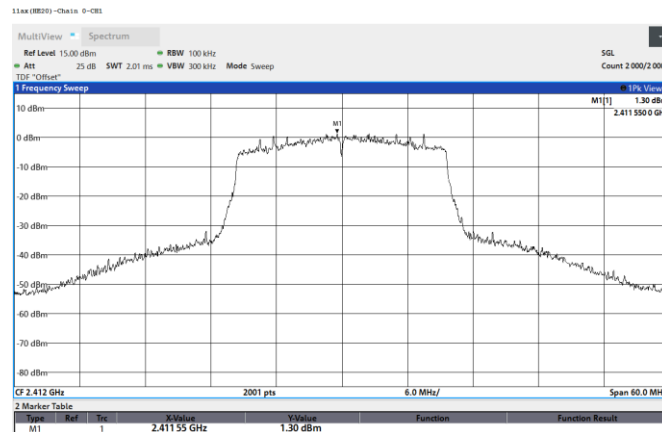
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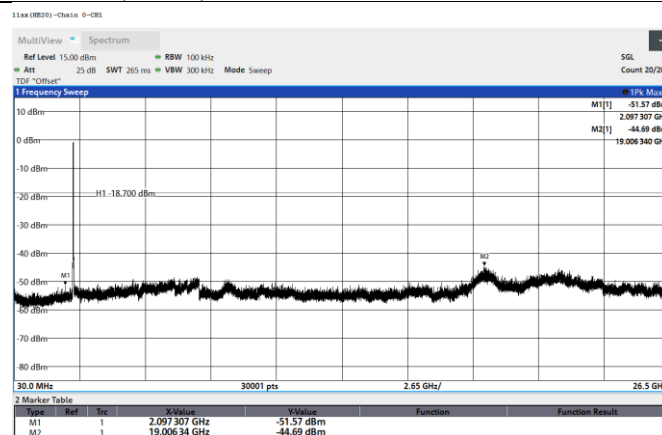
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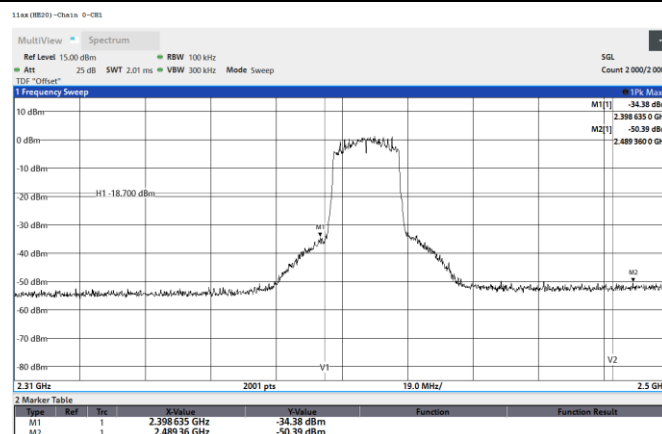
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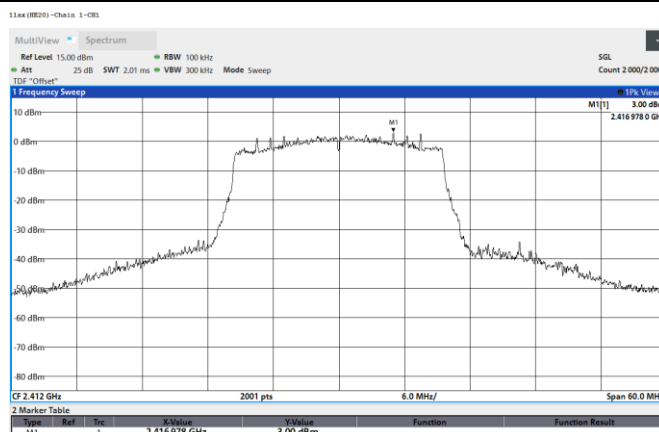
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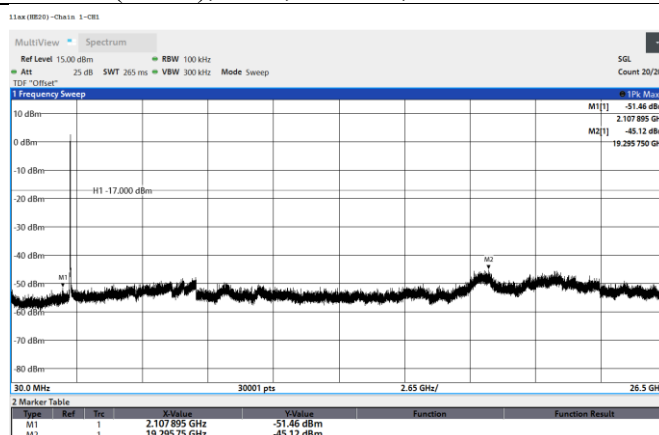
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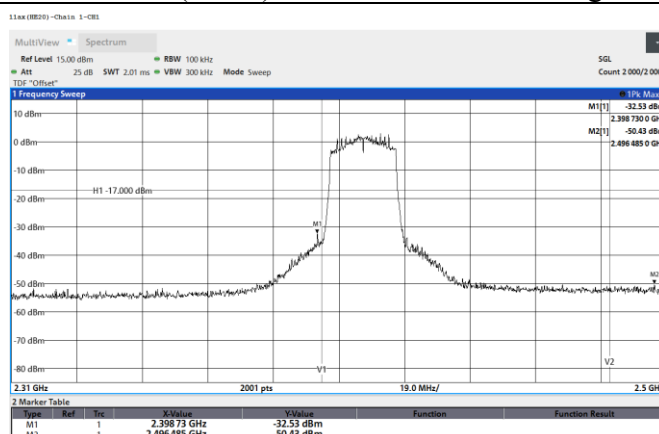
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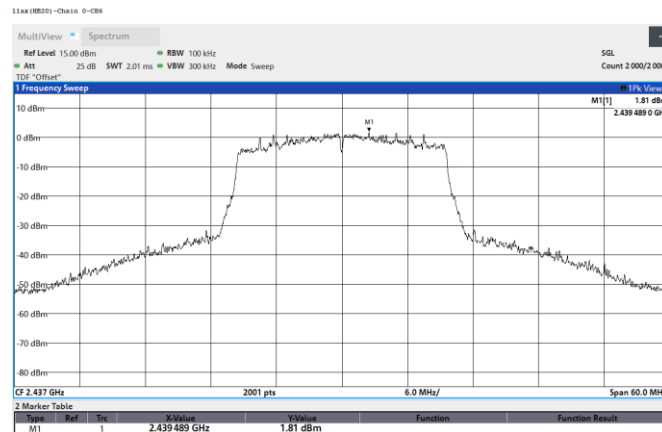
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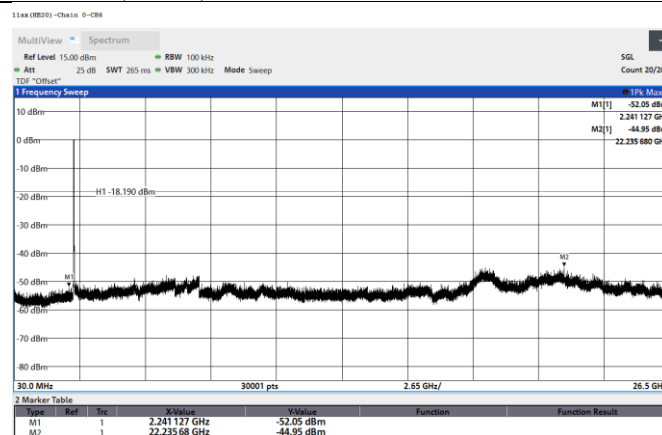
802.11ax(HE20), CH1, Chain 1, Band edge



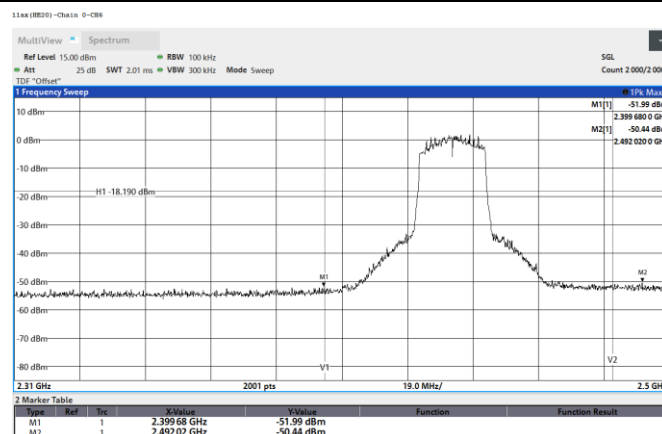
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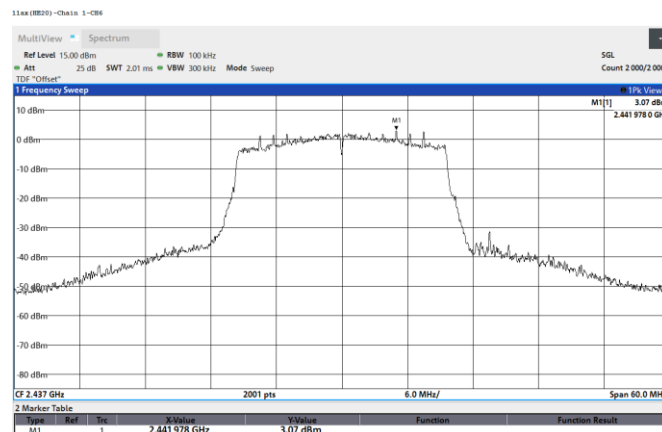
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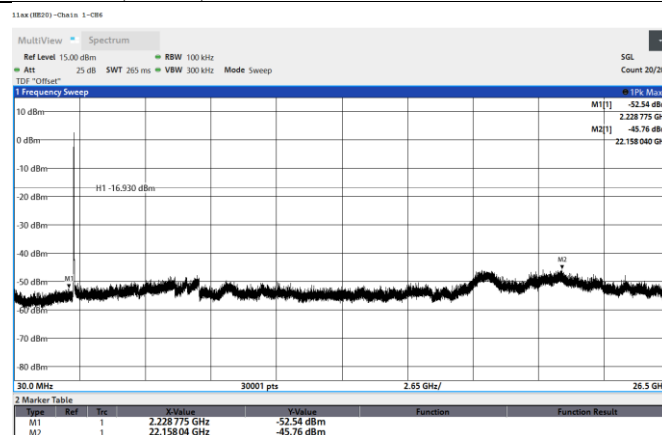
802.11ax(HE20), CH6, Chain 0, Band edge



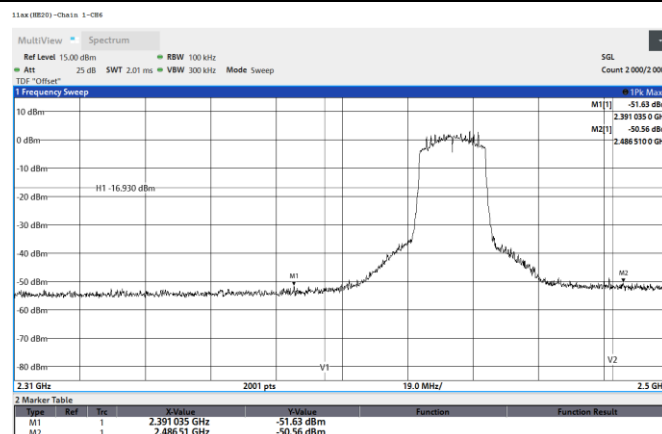
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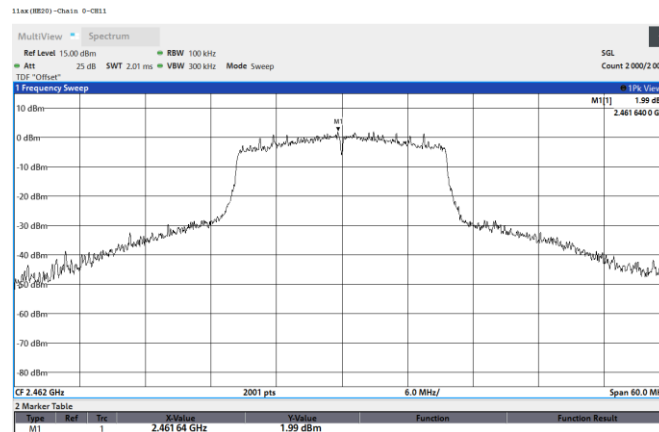
802.11ax(HE20), CH6, Chain 1, Conducted Emission



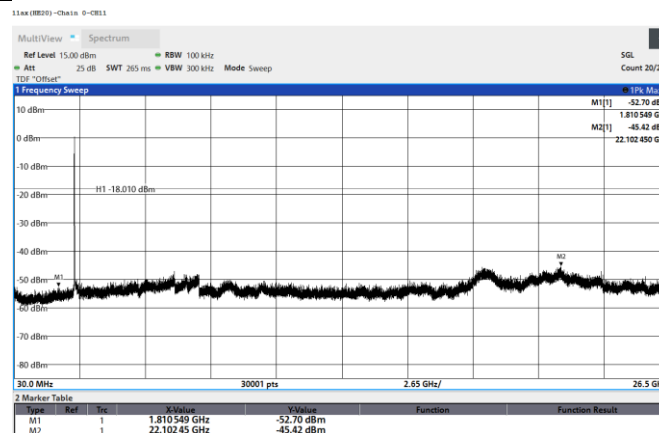
802.11ax(HE20), CH6, Chain 1, Band edge



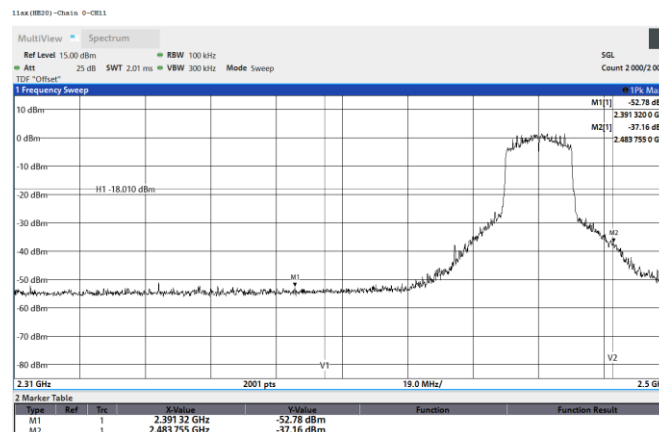
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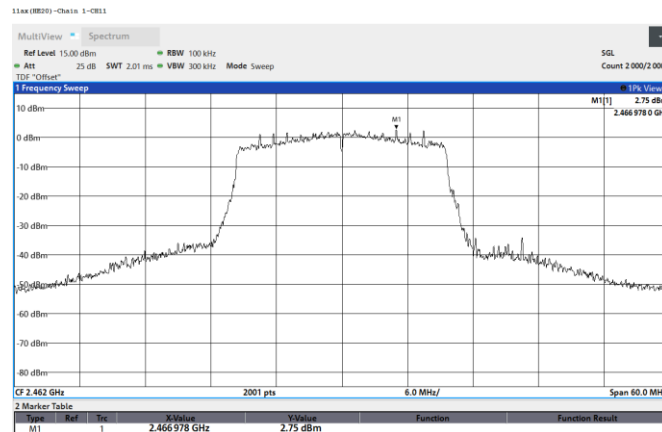
802.11ax(HE20), CH11, Chain 0, Conducted Emission



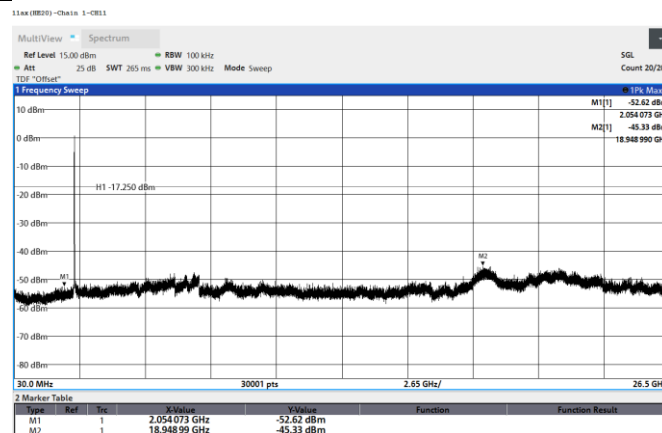
802.11ax(HE20), CH11, Chain 0, Band edge



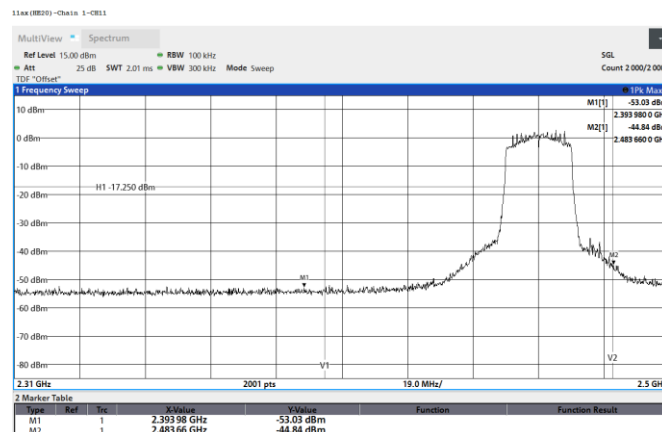
802.11ax(HE20), CH11, Chain 1, Reference



802.11ax(HE20), CH11, Chain 1, Conducted Emission



802.11ax(HE20), CH11, Chain 1, Band edge



9.5. Radiated Spurious Emission

Requirements

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 6.1

Test Procedures

[For 9 kHz ~ 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 30MHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

[For above 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- f. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

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Note:

- a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- b. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

Peak

Frequency	RBW	VBW
9 kHz~150 kHz	200 Hz	600 Hz
150 kHz~30 MHz	10 kHz	30 kHz
30 MHz~1 GHz	120 kHz	360 kHz
Above 1GHz	1 MHz	3 MHz

Average for above 1GHz

RBW	VBW
1MHz	Refer to section 6.6 for duty cycle.

- d. All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported, the other emission levels were low against the limit.
- e. Test data of Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
- f. Test data of Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
- g. Test data of Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Preamp Factor (dB).
- h. Test data of Notation "@" = Fundamental Frequency
- i. Test data of Notation " * " = The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.

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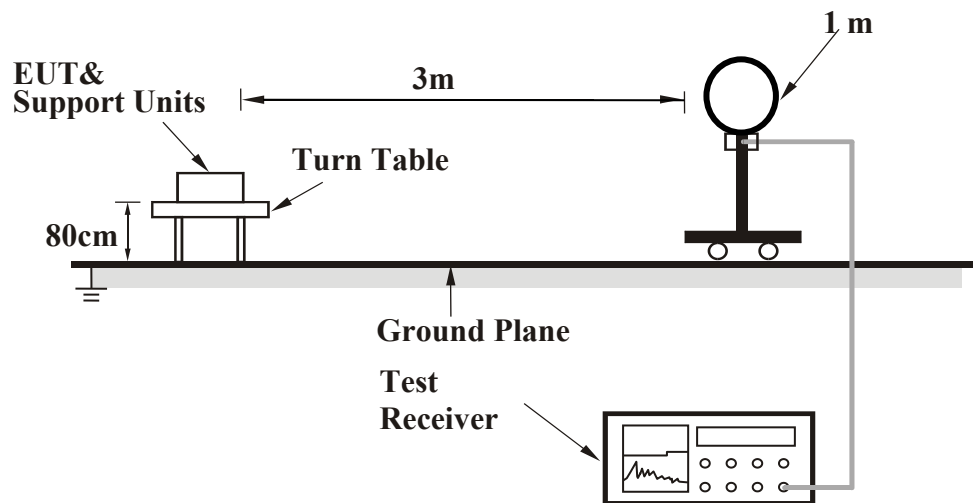
Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

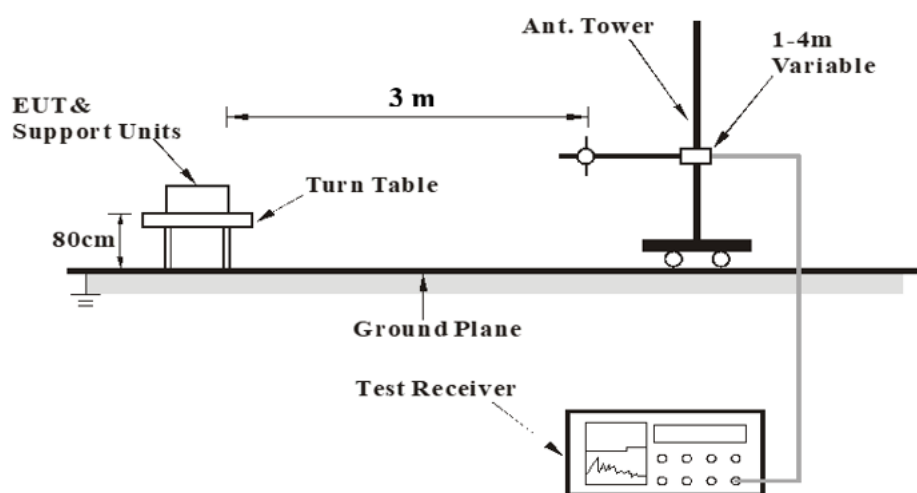
Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 6.1

Test Setup

<Frequency Range 9 kHz ~ 30 MHz>



<Frequency Range 30 MHz ~ 1 GHz >



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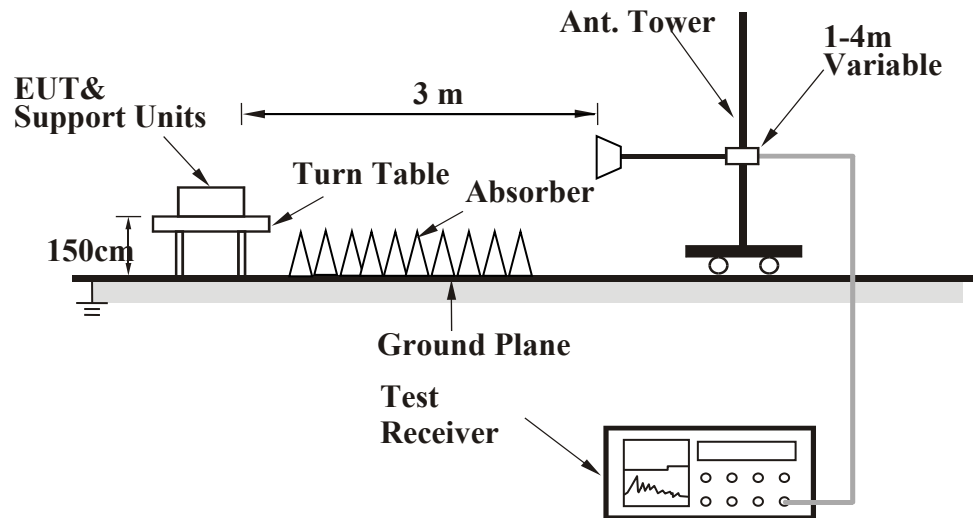
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<Frequency Range above 1 GHz>



For the actual test configuration, please refer to the Setup Configurations.

Test Data

Above 1 GHz

Mode	802.11b	Channel	1
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2320.83	30.14	18.23	48.37	54	-5.63	AVG
		2367	41.95	18.2	60.15	74	-13.85	PK
	@	2412	81.97	18.08	100.05	N/A	N/A	PK
	@	2412	78.26	18.08	96.34	N/A	N/A	AVG
Vertical		2348.95	41.96	18.22	60.18	74	-13.82	PK
		2365.48	30.09	18.2	48.29	54	-5.71	AVG
	@	2412	81.07	18.08	99.15	N/A	N/A	PK
	@	2412	77.73	18.08	95.81	N/A	N/A	AVG

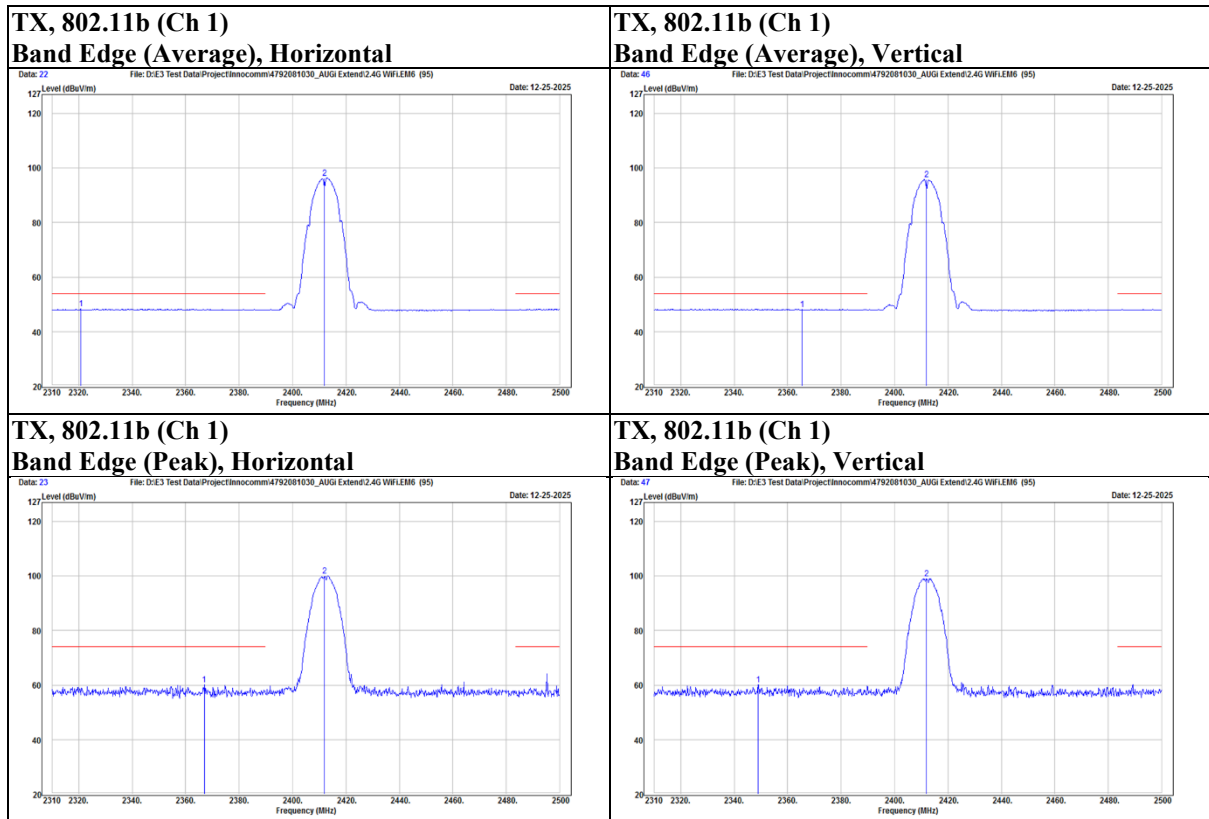
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Mode	802.11b	Channel	6
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2344.96	30.03	18.22	48.25	54	-5.75	AVG
		2382.2	42.09	18.17	60.26	74	-13.74	PK
	@	2437	84.73	17.98	102.71	N/A	N/A	PK
	@	2437	80.96	17.98	98.94	N/A	N/A	AVG
		2486.32	40.75	18	58.75	74	-15.25	PK
		2494.11	30.2	18.02	48.22	54	-5.78	AVG
Vertical		2336.79	42.48	18.23	60.71	74	-13.29	PK
		2353.13	30.02	18.23	48.25	54	-5.75	AVG
	@	2437	79.07	17.98	97.05	N/A	N/A	PK
	@	2437	75.66	17.98	93.64	N/A	N/A	AVG
		2486.13	41.31	18	59.31	74	-14.69	PK
		2498.48	30.03	18.03	48.06	54	-5.94	AVG

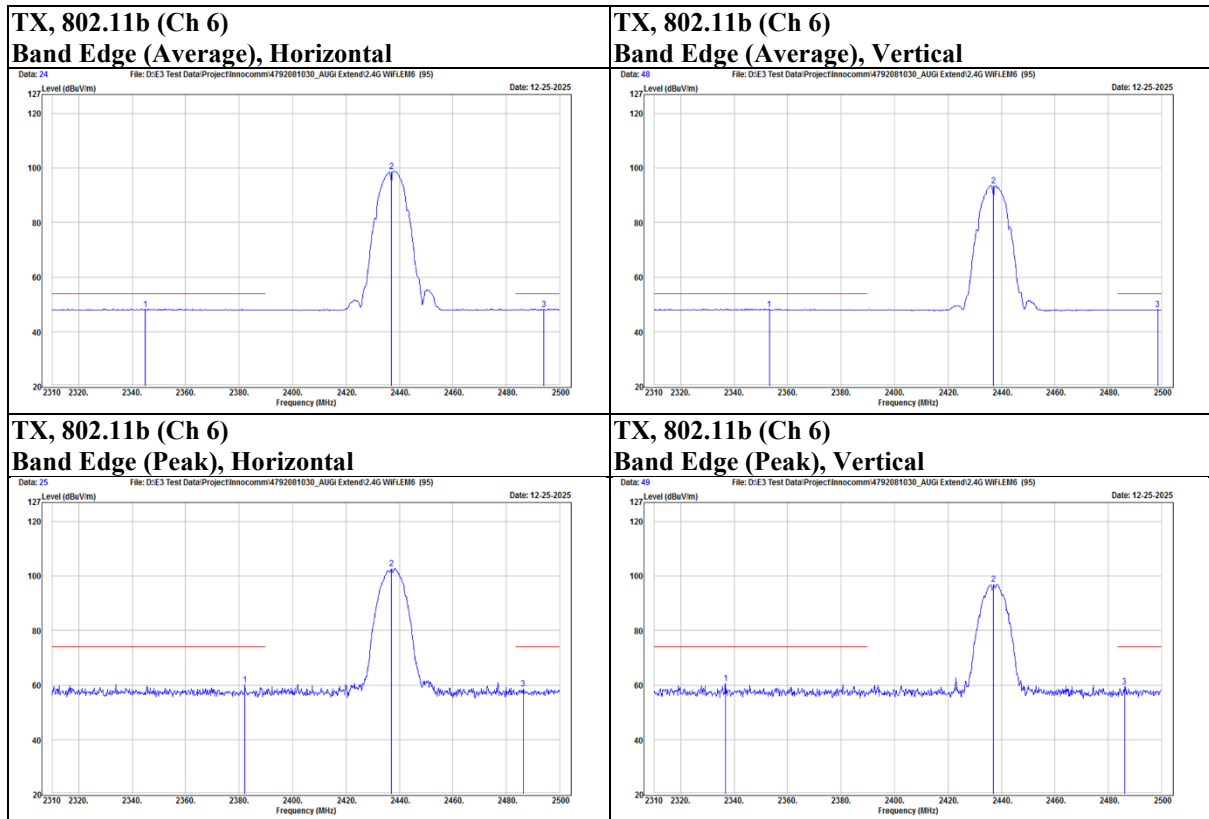
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Mode	802.11b	Channel	11
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2462	90.38	17.96	108.34	N/A	N/A	PK
	@	2462	86.73	17.96	104.69	N/A	N/A	AVG
		2487.27	31.15	18.01	49.16	54	-4.84	AVG
		2499.81	42.29	18.03	60.32	74	-13.68	PK
Vertical	@	2462	85.78	17.96	103.74	N/A	N/A	PK
	@	2462	82.5	17.96	100.46	N/A	N/A	AVG
		2484.8	30.19	18	48.19	54	-5.81	AVG
		2498.29	43.25	18.03	61.28	74	-12.72	PK

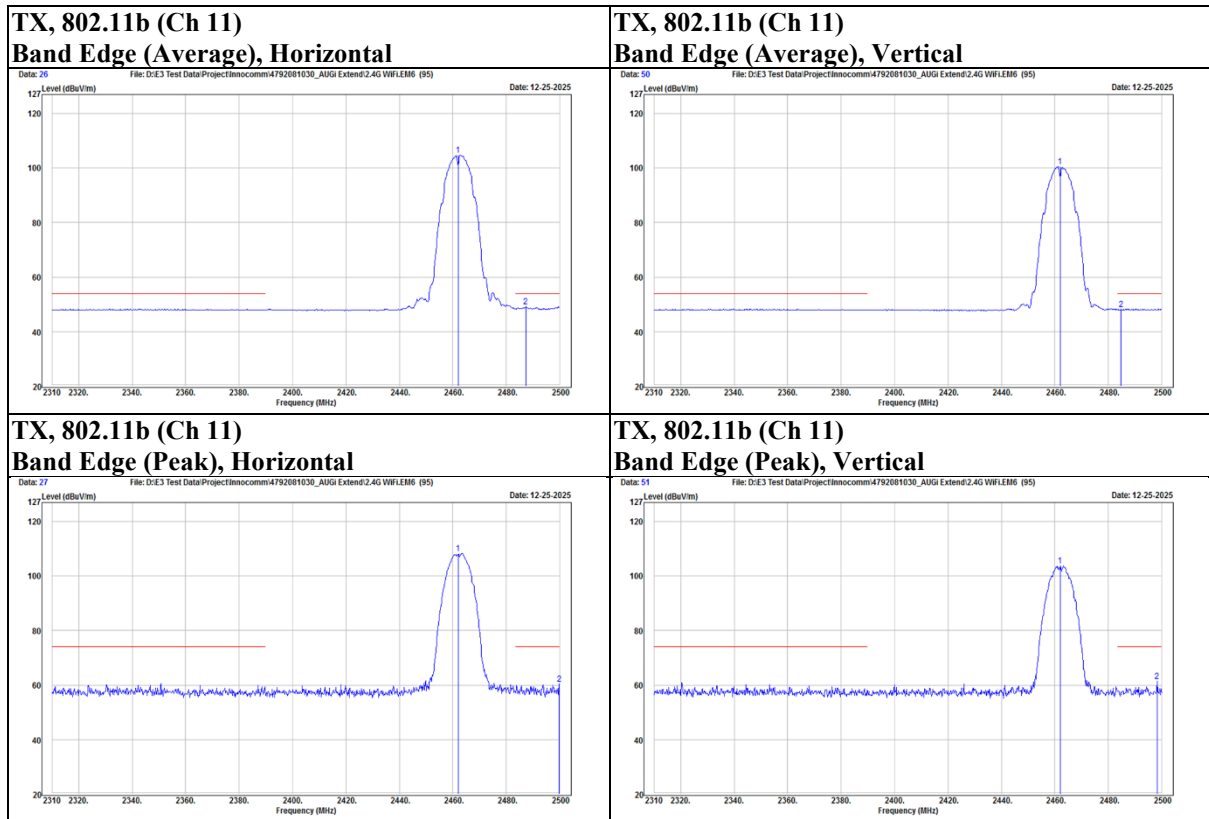
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Mode	802.11b - Emission	Channel	1
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		4824	51.33	5.1	56.43	74	-17.57	PK
		4824	48.73	5.1	53.83	54	-0.17	AVG
		14485	28.38	28.88	57.26	74	-16.74	PK
		14485	20.11	28.88	48.99	54	-5.01	AVG
		15340	28.74	26.5	55.24	74	-18.76	PK
		15340	19.91	26.5	46.41	54	-7.59	AVG
	*	16884	33.35	5.54	38.89	74	-35.11	PK
	*	19296	33.02	3.66	36.68	74	-37.32	PK
	*	21708	33.34	6.18	39.52	74	-34.48	PK
Vertical	*	24120	31.83	11.03	42.86	74	-31.14	PK
	*	4824	42.64	5.1	47.74	74	-26.26	PK
		14500	29.75	28.9	58.65	74	-15.35	PK
		14500	21.48	28.9	50.38	54	-3.62	AVG
		15385	28.79	26.17	54.96	74	-19.04	PK
		15385	19.96	26.17	46.13	54	-7.87	AVG
	*	16884	33.7	5.54	39.24	74	-34.76	PK
	*	19296	33.67	3.66	37.33	74	-36.67	PK
	*	21708	33.11	6.18	39.29	74	-34.71	PK
	*	24120	32.28	11.03	43.31	74	-30.69	PK

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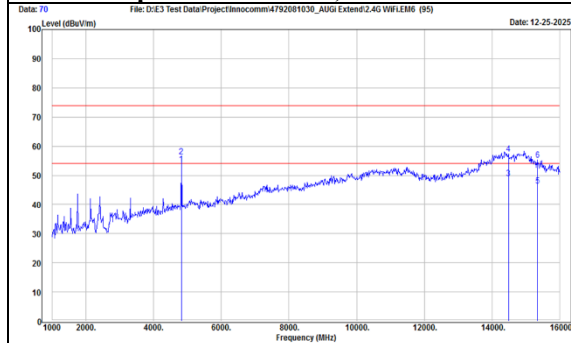
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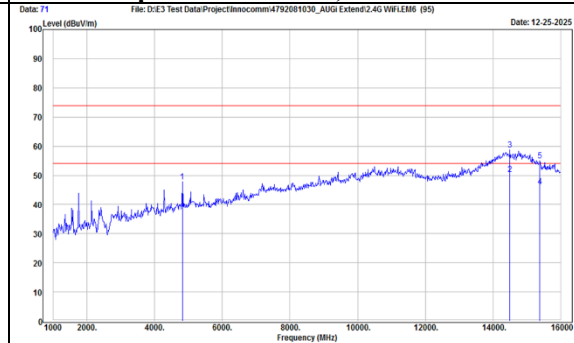
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Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 6.1

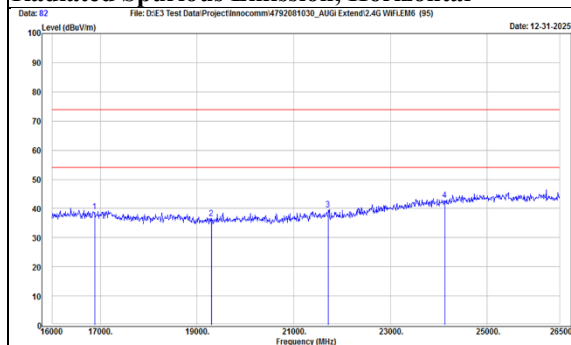
TX, 802.11b - Emission (Ch 1)
Radiated Spurious Emission, Horizontal



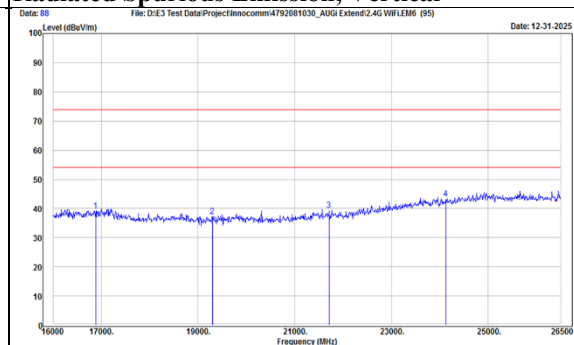
TX, 802.11b - Emission (Ch 1)
Radiated Spurious Emission, Vertical



TX, 802.11b - Emission (Ch 1)
Radiated Spurious Emission, Horizontal



TX, 802.11b - Emission (Ch 1)
Radiated Spurious Emission, Vertical



Mode	802.11b - Emission	Channel	6
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		4874	49.89	5.45	55.34	74	-18.66	PK
		4874	48.19	5.45	53.64	54	-0.36	AVG
		14500	27.3	28.9	56.2	74	-17.8	PK
		14500	19.03	28.9	47.93	54	-6.07	AVG
		15310	28.4	26.72	55.12	74	-18.88	PK
		15310	19.57	26.72	46.29	54	-7.71	AVG
	*	17059	33.46	5.36	38.82	74	-35.18	PK
	*	19496	33.58	3.99	37.57	74	-36.43	PK
	*	21933	32.8	6.24	39.04	74	-34.96	PK
Vertical	*	24370	32.63	11.82	44.45	74	-29.55	PK
	*	4874	43.42	5.45	48.87	74	-25.13	PK
		14470	29.08	28.86	57.94	74	-16.06	PK
		14470	20.81	28.86	49.67	54	-4.33	AVG
		15535	28.86	25.4	54.26	74	-19.74	PK
		15535	20.03	25.4	45.43	54	-8.57	AVG
	*	17059	34.73	5.36	40.09	74	-33.91	PK
	*	19496	33.59	3.99	37.58	74	-36.42	PK
	*	21933	33.21	6.24	39.45	74	-34.55	PK
	*	24370	33.62	11.82	45.44	74	-28.56	PK

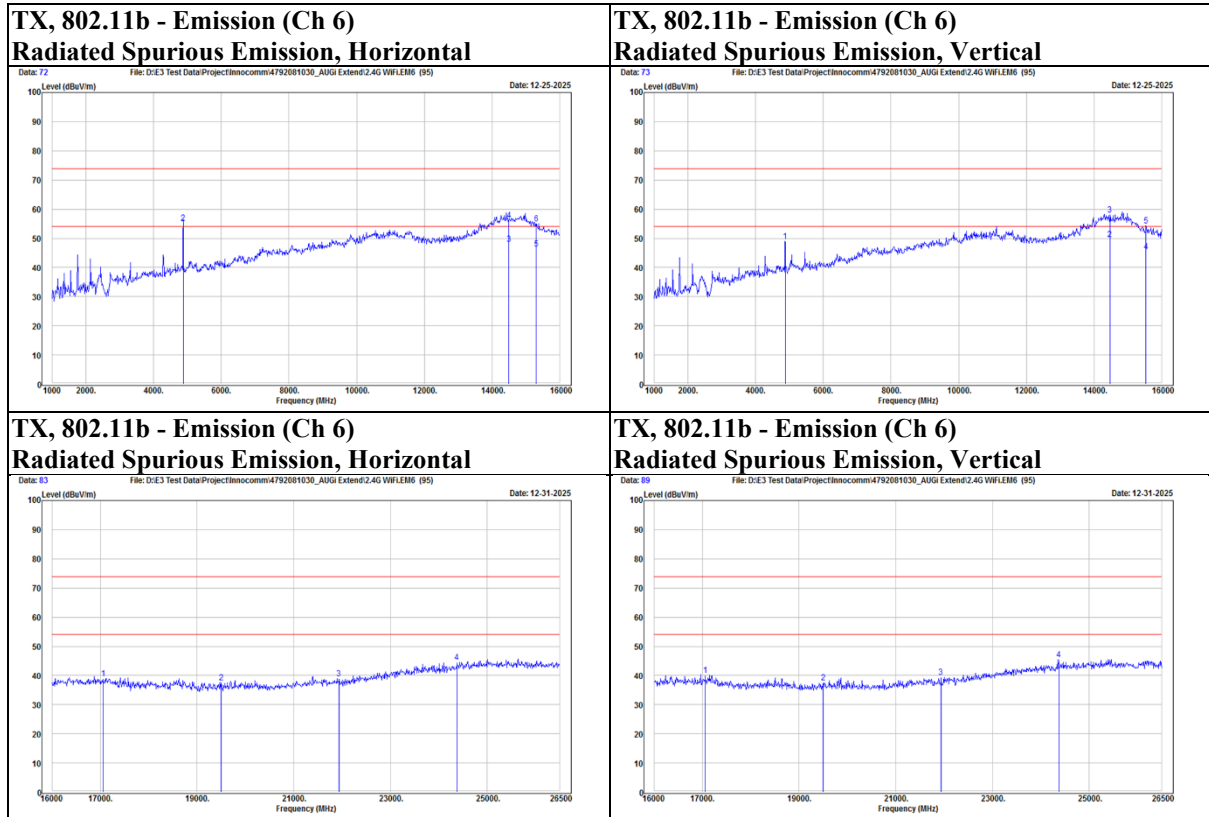
Underwriters Laboratories Taiwan Co., Ltd.

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Mode	802.11b - Emission	Channel	11
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		4924	48.75	5.81	54.56	74	-19.44	PK
		4924	48.02	5.81	53.83	54	-0.17	AVG
		14500	28.36	28.9	57.26	74	-16.74	PK
		14500	20.09	28.9	48.99	54	-5.01	AVG
		15355	28.59	26.38	54.97	74	-19.03	PK
		15355	19.76	26.38	46.14	54	-7.86	AVG
	*	17234	34.21	5.16	39.37	74	-34.63	PK
	*	19696	34.55	3.98	38.53	74	-35.47	PK
	*	22158	33.03	6.6	39.63	74	-34.37	PK
	*	24620	31.48	12.38	43.86	74	-30.14	PK
Vertical	*	4924	44.18	5.81	49.99	74	-24.01	PK
		14500	28.76	28.9	57.66	74	-16.34	PK
		14500	20.49	28.9	49.39	54	-4.61	AVG
		15325	28.6	26.62	55.22	74	-18.78	PK
		15325	19.77	26.62	46.39	54	-7.61	AVG
	*	17234	33.73	5.16	38.89	74	-35.11	PK
	*	19696	33.56	3.98	37.54	74	-36.46	PK
	*	22158	33.44	6.6	40.04	74	-33.96	PK
	*	24620	33.47	12.38	45.85	74	-28.15	PK

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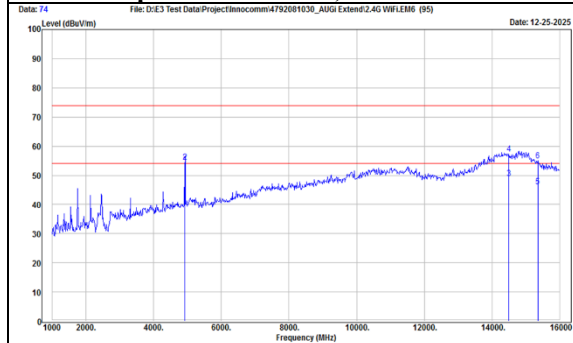
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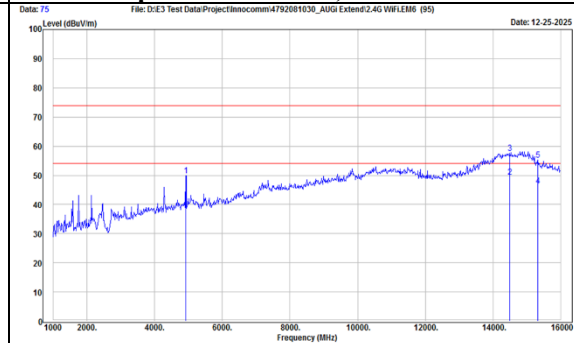
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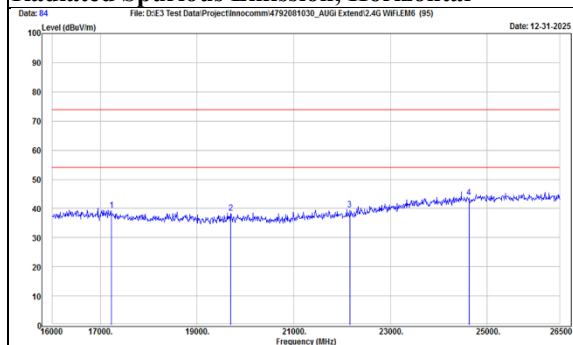
TX, 802.11b - Emission (Ch 11)
Radiated Spurious Emission, Horizontal



TX, 802.11b - Emission (Ch 11)
Radiated Spurious Emission, Vertical



TX, 802.11b - Emission (Ch 11)
Radiated Spurious Emission, Horizontal



TX, 802.11b - Emission (Ch 11)
Radiated Spurious Emission, Vertical

