TEST REPORT

Applicant Name :	Shenzhen VanTop Technology & Innovation Co., Ltd.
Address :	506, 5th Flr. BLDG 4, MinQi Technology Park, No. 65 Lishan Road, Taoyuan Street, Nanshan District, Shenzhen, China
Report Number :	SZNS220606-24734E-RF-00A
FCC ID:	2AQ3A-VT01

Test Standard (s)

FCC PART 15.247

Sample Description

Product Type:	Projector
Model No.:	Leisure 470Pro
Multiple Model(s) No.:	Leisure 470,Leisure D30T,Leisure 530W,Leisure E30T, Leisure630W,Leisure495W ,VT501,VT502,VT503,VT504,VT505, VT506,VT507,VT508,VT509,VT510,VT511,VT512,VT513,VT514, VT515,VT516,VT517,VT518,VT519,VT520 (Please refer to DOS for Model difference)
Trade Mark:	N/A
Date Received:	2022/05/18
Report Date:	2022/08/19

Test Result:	Pass*

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

Prepared and Checked By:

Andy Yu
EMC Engineer

Approved By:

Candy Li
EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

Shenzhen Accurate Technology Co., Ltd. is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.

TABLE OF CONTENTS

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	Wi-Fi: 2412-2472MHz
Maximum Conducted Peak Output Power	Wi-Fi: 802.11b: 11.03dBm, 802.11g: 12.41dBm, 802.11n-HT20: 12.31dBm, 802.11n-HT40: 9.73dBm
Modulation Technique	Wi-Fi: DSSS, OFDM
Antenna Specification*	2.19dBi (provided by the applicant)
Voltage Range	AC 120V/60Hz
Sample serial number	RE & CE : SZNS220606-24734E-RF-S1; RF:SZNS220606-24734E-RF-S2 (Assigned by ATC)
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		5%
RF Frequency		$0.082*10^{-7}$
RF output power, conducted		0.73dB
Unwanted Emission, conducted		1.6dB
AC Power Lines Conducted Emissions		2.72dB
Emissions, Radiated	9kHz - 30MHz	2.66dB
	30MHz - 1GHz	4.28dB
	1GHz - 18GHz	4.98dB
	18GHz - 26.5GHz	5.06dB
	26.5GHz - 40GHz	4.72dB
Temperature		1℃
Humidity		6%
Supply voltages		0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 2.4GHz Wi-Fi, total 13 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442	/	/

802.11b, 802.11g and 802.11n-HT20 mode was tested with Channel 1, 7 and 13.
802.11n-HT40 mode was tested with Channel 3, 7 and 11.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

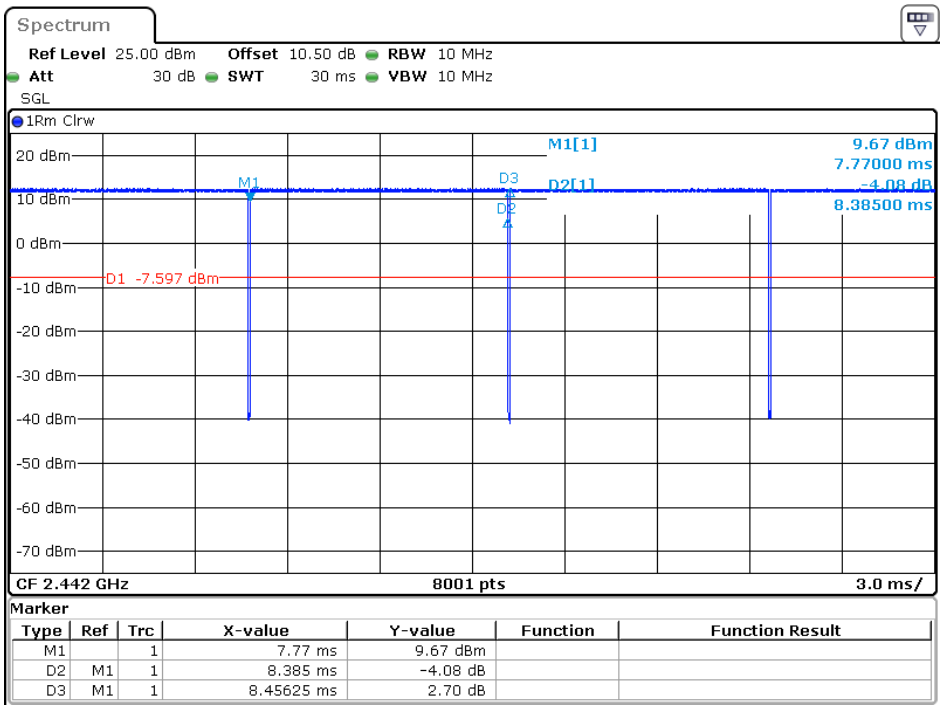
"SecureCRT"* exercise software was used and power level as below:

Mode	Date rate	Power Level		
		Low Channel	Middle Channel	High Channel
802.11b	1Mbps	15	15	15
802.11g	6Mbps	15	15	15
802.11n-HT20	MCS0	15	15	15
802.11n-HT40	MCS0	15	15	15

Duty cycle

Mode	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	1/T(kHz)
802.11b	8.385	8.456	99.16	0.119
802.11g	1.393	1.461	95.35	0.718
802.11n-HT20	5.082	5.153	98.62	0.197
802.11n-HT40	2.468	2.536	97.32	0.405

802.11b



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	7.77 ms	9.67 dBm		
D2	M1	1	8.385 ms	-4.08 dB		
D3	M1	1	8.45625 ms	2.70 dB		

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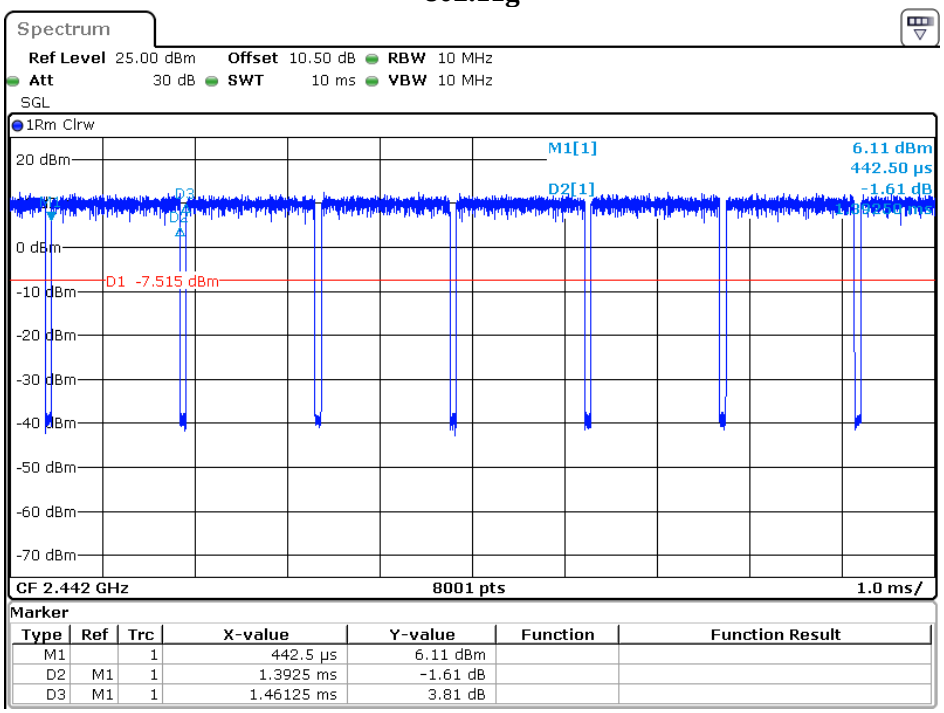
802.11g



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	442.5 µs	6.11 dBm		
D2	M1	1	1.3925 ms	-1.61 dB		
D3	M1	1	1.46125 ms	3.81 dB		

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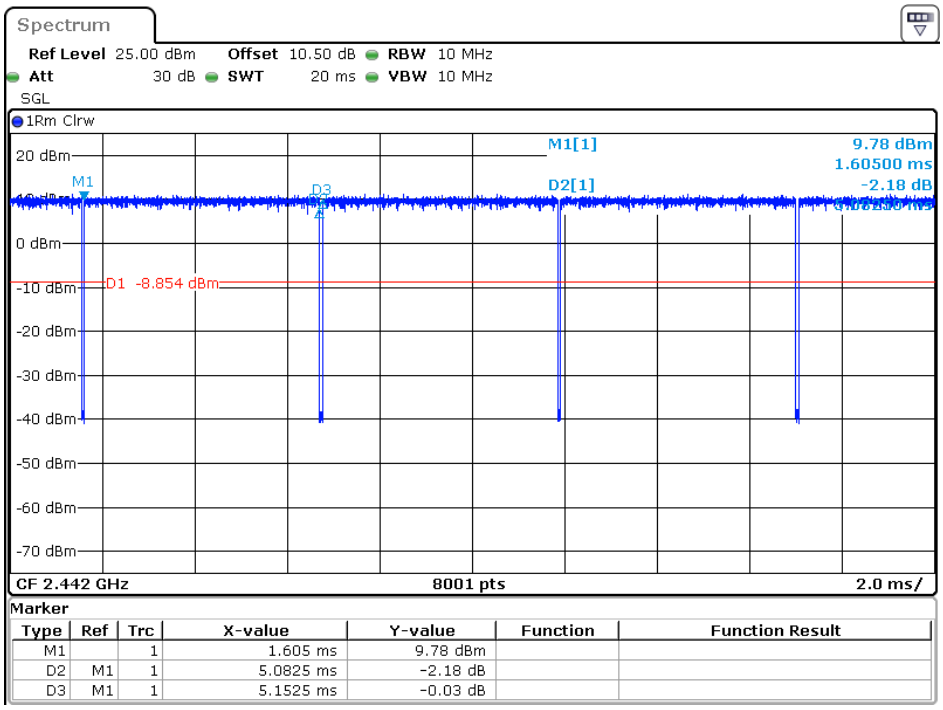
802.11n20



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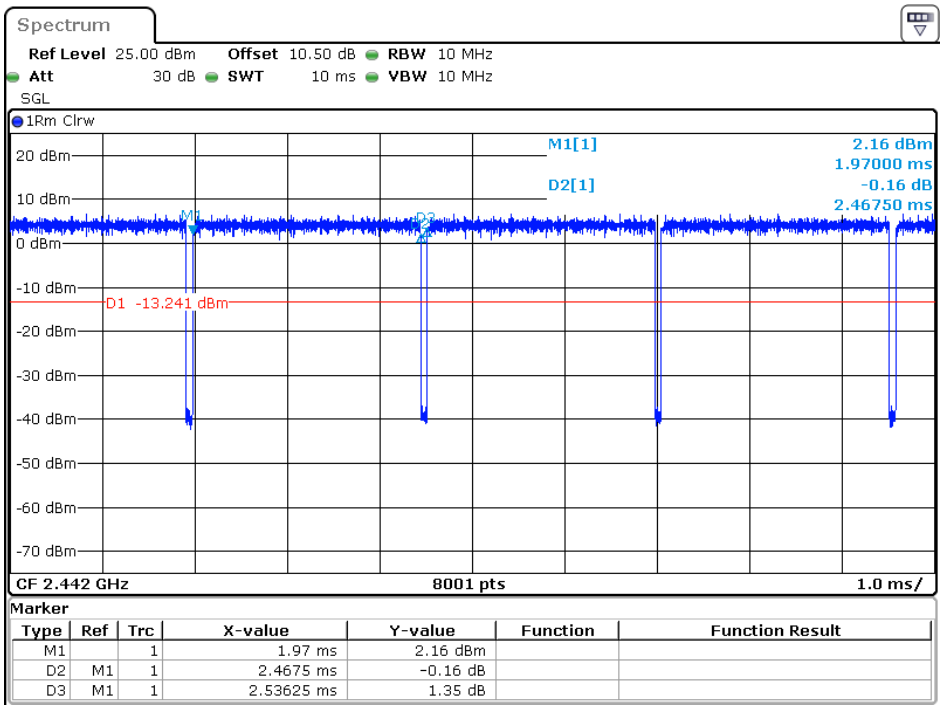
802.11n40



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Support Equipment List and Details

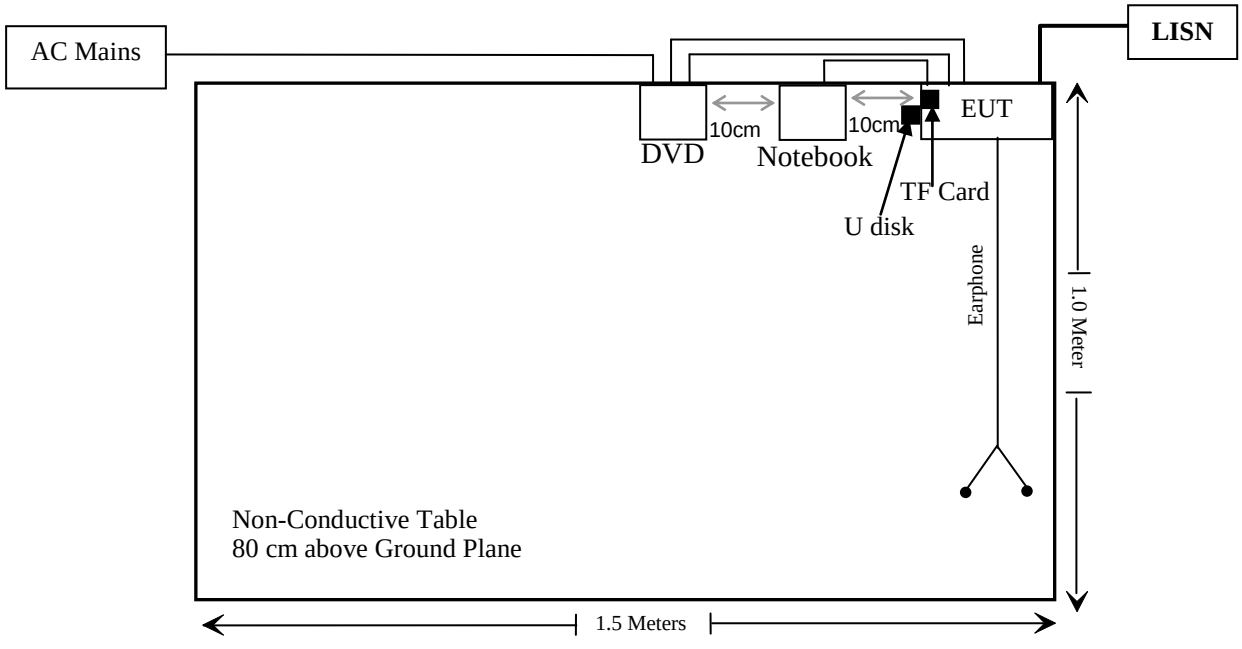
Manufacturer	Description	Model	Serial Number
DELL	Note Book	XXJL-2	F87B1B8
Unknown	Earphone	Unknown	Earphone 1
Unknown	U disk	Unknown	U-1
SAST	DVD	SA-016	25113
Unknown	TF Card	Unknown	TF-1

External I/O Cable

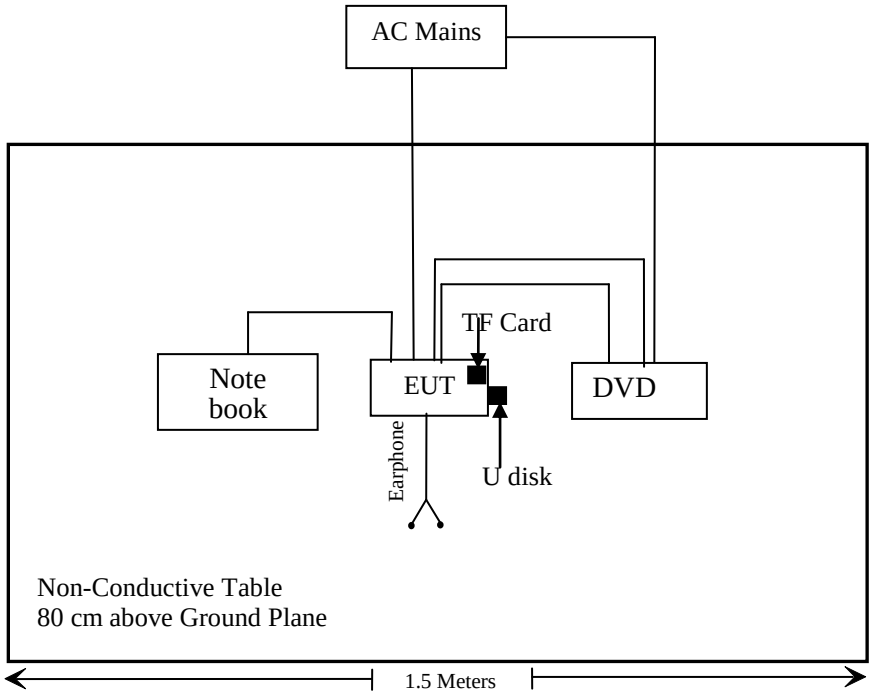
Cable Description	Length (m)	From/Port	To
Unshielded detachable AC cable	1.0	EUT	LISN
Un-shielded detachable HDMI cable	1.5	Note Book	EUT
Un-shielded detachable HDMI cable	1.5	DVD	EUT
Unshielded detachable AV cable	1.0	DVD	EUT

Block Diagram of Test Setup

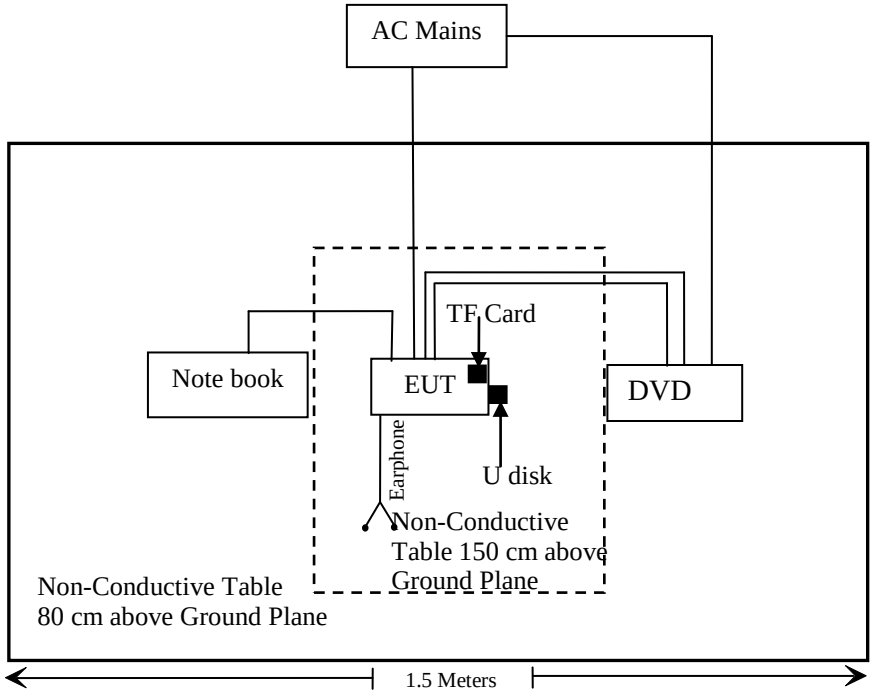
For conducted emission:



For radiated emission: (below 1GHz)



For radiated emission: (above 1GHz)



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1310 & §2.1091	MAXIMUM PERMISSIBLE EXPOSURE (MPE)	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth & Occupied Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2021/12/13	2022/12/12
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2021/12/13	2022/12/12
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2021/12/13	2022/12/12
Unknown	RF Coaxial Cable	No.17	N0350	2021/12/14	2022/12/13
Conducted Emission Test Software: e3 19821b (V9)					
Radiated Emissions Test					
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2021/11/11	2022/11/10
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04
Radiated Emission Test Software: e3 19821b (V9)					
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.15	N600	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.16	N650	2021/12/14	2022/12/13
Wainwright	High Pass Filter	WHKX3.6/18G-10SS	5	2021/12/14	2022/12/13

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde&Schwarz	Spectrum Analyzer	FSV-40	101948	2021/12/13	2022/12/12
Tonscend	RF Control Unit	JS0806-2	19G8060182	2021/10/26	2022/10/25
WEINSCHEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13
Unknown	RF Cable	Unknown	1	Each time	/

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.247(i)& §1.1310 & §2.1091 – MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to KDB 447498 D04 Interim General RF Exposure Guidance v01, clause 2.1.4 –MPE-Based Exemption:

An alternative to the SAR-based exemption is provided in §1.1307(b)(3)(i)(C), for a much wider frequency range, from 300 kHz to 100 GHz, applicable for separation distances greater or equal to $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power. For this case, a RF source is an RF exempt device if its ERP (watts) is no more than a frequency-dependent value, as detailed tabular form in Appendix B. These limits have been derived based on the basic specifications on Maximum Permissible Exposure (MPE) considered for the FCC rules in §1.1310(e)(1).

Table to §1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R^2.
1.34-30	3,450 R^2/f^2.
30-300	3.83 R^2.
300-1,500	0.0128 R^2f.
1,500-100,000	19.2R^2.

f = frequency in MHz;
R = minimum separation distance from the body of a nearby person (appropriate units, e.g., m);

Test result

For worst case:

Mode	Frequency Range (MHz)	Tune-up Output Power		Antenna Gain		ERP		Evaluation Distance (cm)	MPE-Based Exemption Threshold (W)
		(dBm)	(W)	(dBi)	(dBd)	(dBm)	(W)		
Wi-Fi	2412-2472	13	0.020	2.19	0.04	13.04	0.020	20	0.768
	5150-5250	11.5	0.014	3.27	1.12	12.62	0.018	20	0.768
	5725-5850	12.5	0.018	3.27	1.12	13.62	0.023	20	0.768

Note 1: The tune-up power and antenna gain was declared by the applicant.
Note 2: The 2.4GHz Wi-Fi cannot transmit at same time with 5GHz Wi-Fi.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

a. Antenna must be permanently attached to the unit.
b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.
And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has one internal antenna arrangement, which was permanently attached and the antenna gain is 2.19dBi, fulfill the requirement of this section. Please refer to the EUT photos.

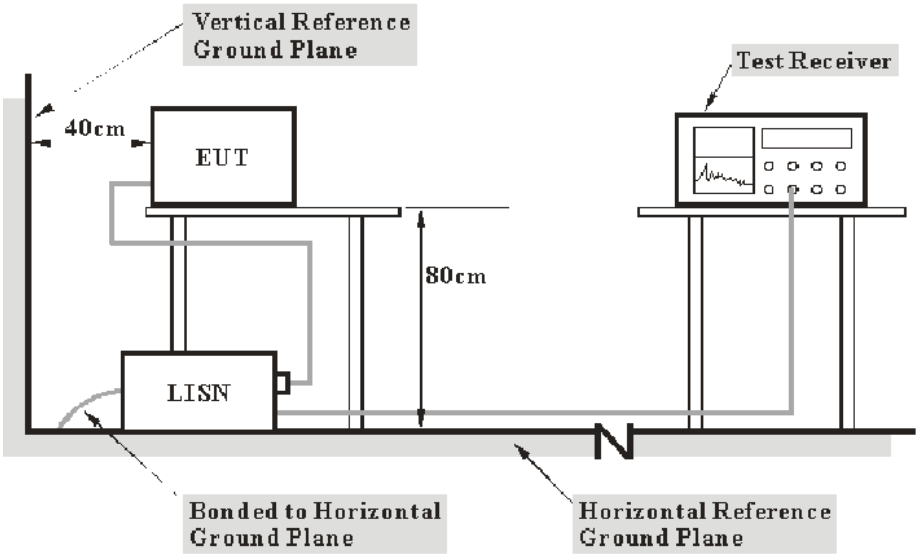
Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the device was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Factor & Margin Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

Factor = LISN VDF + Cable Loss

The "**Over limit**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

Over Limit = Level – Limit
Level = Read Level + Factor

Test Data

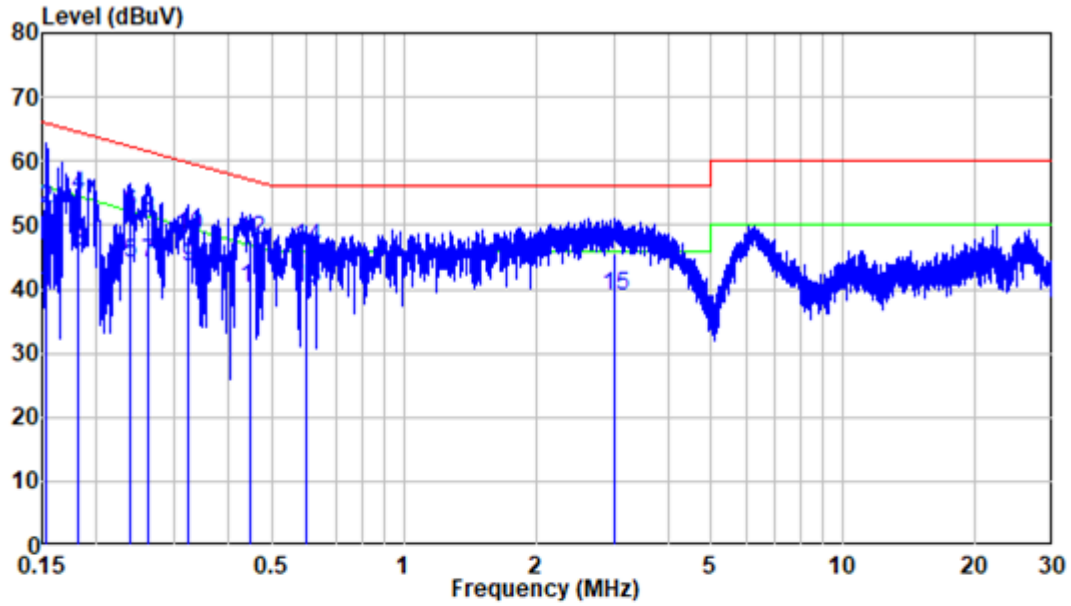
Environmental Conditions

Temperature:	24 ℃
Relative Humidity:	49 %
ATM Pressure:	101.0 kPa

The testing was performed by Jason on 2022-08-11.

EUT operation mode: Transmitting(worst case is 802.11g, low channel)

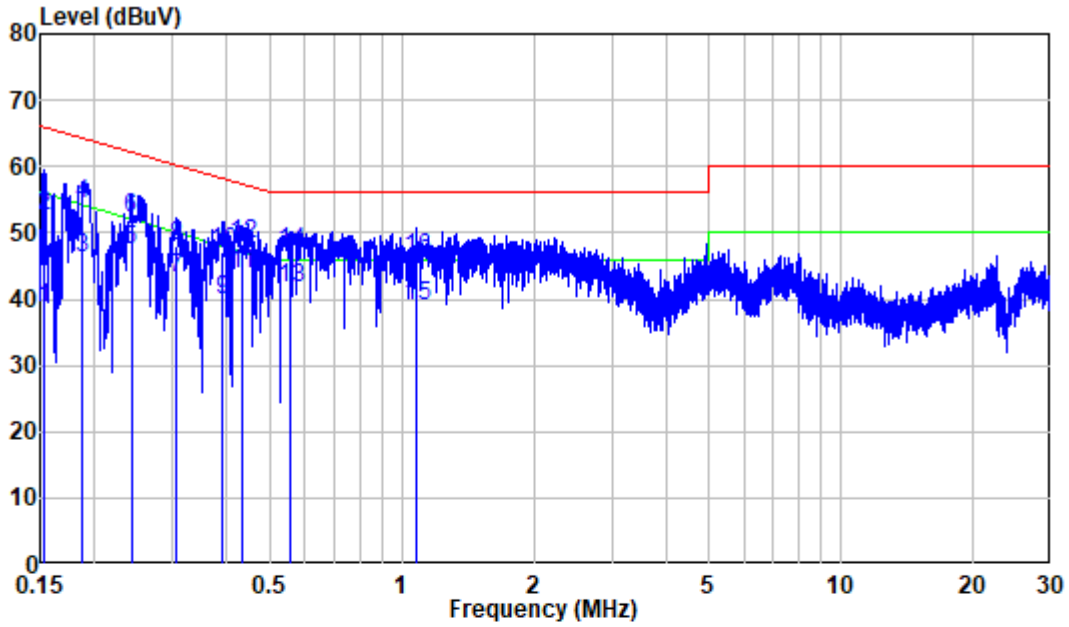
AC 120V/60 Hz, Line



Site : Shielding Room
Condition: Line
Mode : 2.4G WIFI
Model : Leisure 470Pro
Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.154	9.80	29.66	39.46	55.80	-16.34	Average
2	0.154	9.80	42.80	52.60	65.80	-13.20	QP
3	0.181	9.80	35.99	45.79	54.46	-8.67	Average
4	0.181	9.80	44.74	54.54	64.46	-9.92	QP
5	0.238	9.80	34.13	43.93	52.18	-8.25	Average
6	0.238	9.80	42.08	51.88	62.18	-10.30	QP
7	0.262	9.80	34.20	44.00	51.38	-7.38	Average
8	0.262	9.80	41.36	51.16	61.38	-10.22	QP
9	0.322	9.80	33.56	43.36	49.66	-6.30	Average
10	0.322	9.80	38.53	48.33	59.66	-11.33	QP
11	0.448	9.80	30.28	40.08	46.91	-6.83	Average
12	0.448	9.80	37.99	47.79	56.91	-9.12	QP
13	0.600	9.81	30.33	40.14	46.00	-5.86	Average
14	0.600	9.81	36.58	46.39	56.00	-9.61	QP
15	3.011	9.83	29.04	38.87	46.00	-7.13	Average
16	3.011	9.83	35.61	45.44	56.00	-10.56	QP

AC 120V/60 Hz, Neutral



Site : Shielding Room
Condition: Neutral
Mode : 2.4G WIFI
Model : Leisure 470Pro
Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.154	9.80	28.92	38.72	55.79	-17.07	Average
2	0.154	9.80	42.61	52.41	65.79	-13.38	QP
3	0.187	9.80	36.47	46.27	54.16	-7.89	Average
4	0.187	9.80	44.46	54.26	64.16	-9.90	QP
5	0.242	9.80	37.62	47.42	52.03	-4.61	Average
6	0.242	9.80	42.33	52.13	62.03	-9.90	QP
7	0.306	9.80	33.46	43.26	50.08	-6.82	Average
8	0.306	9.80	38.20	48.00	60.08	-12.08	QP
9	0.392	9.80	30.18	39.98	48.03	-8.05	Average
10	0.392	9.80	37.18	46.98	58.03	-11.05	QP
11	0.433	9.80	33.99	43.79	47.20	-3.41	Average
12	0.433	9.80	38.40	48.20	57.20	-9.00	QP
13	0.554	9.81	31.98	41.79	46.00	-4.21	Average
14	0.554	9.81	37.33	47.14	56.00	-8.86	QP
15	1.077	9.81	29.17	38.98	46.00	-7.02	Average
16	1.077	9.81	36.46	46.27	56.00	-9.73	QP

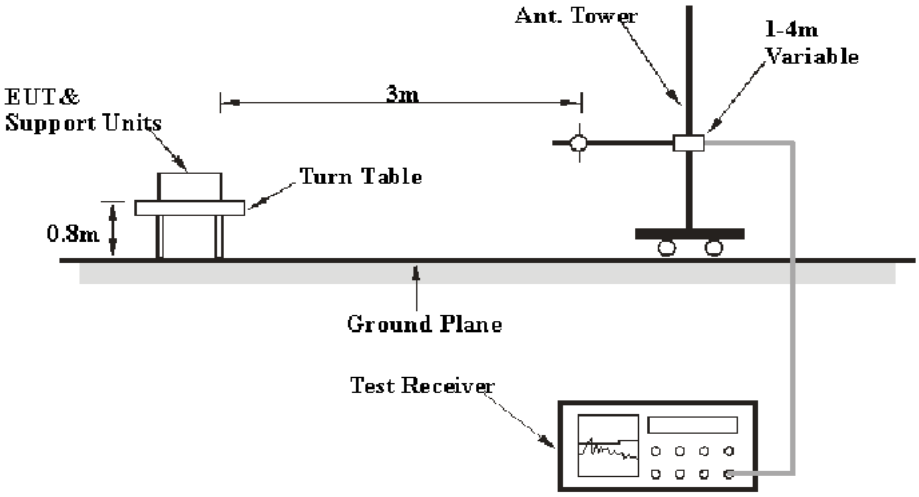
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

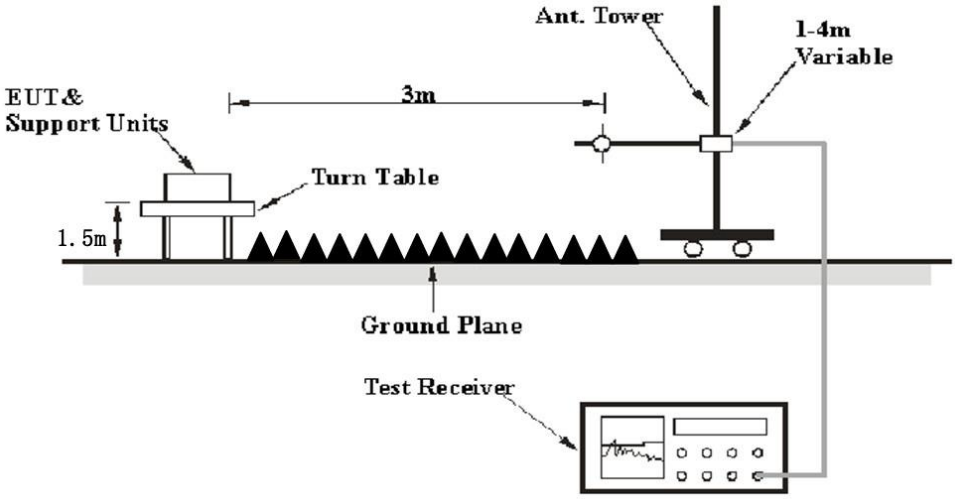
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1 GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz Note 1	/	Average
	1MHz	＞1/T Note 2	/	Average

Note 1: when duty cycle is no less than 98%
Note 2: when duty cycle is less than 98%

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Factor & Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "**Over Limit/Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit/Margin = Level / Corrected Amplitude – Limit
Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

Temperature:	27.8~28 ℃
Relative Humidity:	55~68 %
ATM Pressure:	101.0 kPa

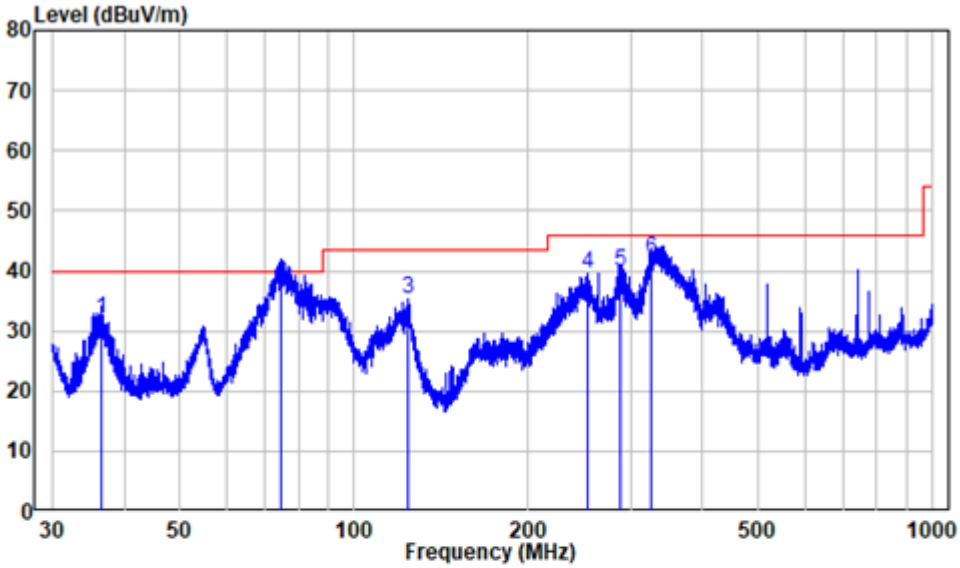
The testing was performed by Level on 2022-08-11 for below 1GHz and by Level Li on 2022-08-04 for above 1GHz.

EUT operation mode: Transmitting

30MHz-1GHz: (Worst case is 802.11B mode, low Channel)

Note: When the test result of Peak wasbelow the limit of QP more than 6dB, just the Peak level was recorded.

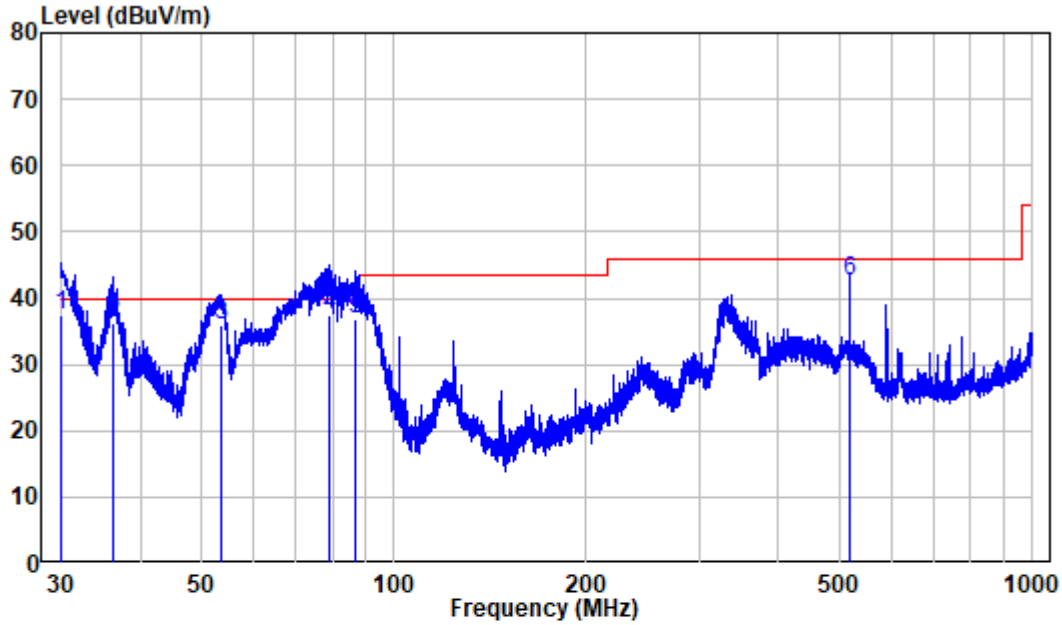
Horizontal:



Site : chamber
Condition: 3m HORIZONTAL
Job No. : SZNS220606-24734E-RF
Test Mode: 2.4G WIFI

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	36.525	-11.10	43.20	32.10	40.00	-7.90	QP
2	74.755	-16.19	53.17	36.98	40.00	-3.02	QP
3	124.133	-14.22	49.50	35.28	43.50	-8.22	Peak
4	252.948	-10.66	50.21	39.55	46.00	-6.45	Peak
5	287.990	-9.36	49.35	39.99	46.00	-6.01	QP
6	325.739	-8.23	50.09	41.86	46.00	-4.14	QP

Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : SZNS220606-24734E-RF
Test Mode: 2.4G WIFI

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	30.079	-12.39	49.70	37.31	40.00	-2.69	QP
2	36.159	-11.17	47.40	36.23	40.00	-3.77	QP
3	53.646	-10.28	46.20	35.92	40.00	-4.08	QP
4	79.034	-16.70	54.20	37.50	40.00	-2.50	QP
5	86.807	-14.95	51.90	36.95	40.00	-3.05	QP
6	516.116	-4.28	46.77	42.49	46.00	-3.51	QP

1-25 GHz:

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11b									
Low Channel(2412MHz)									
2310	67.17	PK	330	1.2	H	-7.24	59.93	74	-14.07
2310	53.16	AV	330	1.2	H	-7.24	45.92	54	-8.08
2310	66.52	PK	155	2.4	V	-7.24	59.28	74	-14.72
2310	52.85	AV	155	2.4	V	-7.24	45.61	54	-8.39
2390	68.60	PK	40	2.2	H	-7.22	61.38	74	-12.62
2390	54.37	AV	40	2.2	H	-7.22	47.15	54	-6.85
2390	68.56	PK	266	1.5	V	-7.22	61.34	74	-12.66
2390	54.25	AV	266	1.5	V	-7.22	47.03	54	-6.97
4824	55.05	PK	342	1.3	H	-3.53	51.52	74	-22.48
4824	54.00	PK	140	1.8	V	-3.53	50.47	74	-23.53
Middle Channel(2442MHz)									
4884	54.26	PK	52	1.5	H	-3.37	50.89	74	-23.11
4884	53.71	PK	90	1.7	V	-3.37	50.34	74	-23.66
High Channel(2472 MHz)									
2483.5	70.26	PK	257	1.5	H	-7.2	63.06	74	-10.94
2483.5	57.40	AV	257	1.5	H	-7.2	50.2	54	-3.8
2483.5	71.12	PK	216	2.4	V	-7.2	63.92	74	-10.08
2483.5	58.64	AV	216	2.4	V	-7.2	51.44	54	-2.56
2500	68.69	PK	158	2.4	H	-7.18	61.51	74	-12.49
2500	54.91	AV	158	2.4	H	-7.18	47.73	54	-6.27
2500	68.69	PK	215	1.2	V	-7.18	61.51	74	-12.49
2500	54.18	AV	215	1.2	V	-7.18	47	54	-7
4944	54.50	PK	241	1.5	H	-3.06	51.44	74	-22.56
4944	53.45	PK	197	1.4	V	-3.06	50.39	74	-23.61

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11g									
Low Channel(2412MHz)									
2310	68.74	PK	253	2.4	H	-7.24	61.50	74	-12.50
2310	54.64	AV	253	2.4	H	-7.24	47.40	54	-6.60
2310	67.65	PK	16	2.1	V	-7.24	60.41	74	-13.59
2310	54.29	AV	16	2.1	V	-7.24	47.05	54	-6.95
2390	68.10	PK	297	1.7	H	-7.22	60.88	74	-13.12
2390	55.03	AV	297	1.7	H	-7.22	47.81	54	-6.19
2390	67.76	PK	333	1.3	V	-7.22	60.54	74	-13.46
2390	54.18	AV	333	1.3	V	-7.22	46.96	54	-7.04
4824	53.39	PK	80	2.2	H	-3.53	49.86	74	-24.14
4824	53.52	PK	0	1.1	V	-3.53	49.99	74	-24.01
Middle Channel(2442MHz)									
4884	53.87	PK	177	1.1	H	-3.37	50.5	74	-23.50
4884	53.4	PK	110	1.4	V	-3.37	50.03	74	-23.97
High Channel(2472 MHz)									
2483.5	70.43	PK	25	2.3	H	-7.2	63.23	74	-10.77
2483.5	55.40	AV	25	2.3	H	-7.2	48.2	54	-5.8
2483.5	70.54	PK	279	1.1	V	-7.2	63.34	74	-10.66
2483.5	55.83	AV	279	1.1	V	-7.2	48.63	54	-5.37
2500	69.66	PK	72	1.4	H	-7.18	62.48	74	-11.52
2500	55.32	AV	72	1.4	H	-7.18	48.14	54	-5.86
2500	68.80	PK	162	1.5	V	-7.18	61.62	74	-12.38
2500	55.17	AV	162	1.5	V	-7.18	47.99	54	-6.01
4944	53.11	PK	82	2.4	H	-3.06	50.05	74	-23.95
4944	52.32	PK	319	1.3	V	-3.06	49.26	74	-24.74

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11n20									
Low Channel(2412MHz)									
2310	68.68	PK	221	1	H	-7.24	61.44	74	-12.56
2310	54.51	AV	221	1	H	-7.24	47.27	54	-6.73
2310	68.24	PK	14	2.2	V	-7.24	61.00	74	-13.00
2310	54.35	AV	14	2.2	V	-7.24	47.11	54	-6.89
2390	68.02	PK	115	1.4	H	-7.22	60.80	74	-13.20
2390	54.69	AV	115	1.4	H	-7.22	47.47	54	-6.53
2390	67.89	PK	301	1.8	V	-7.22	60.67	74	-13.33
2390	54.57	AV	301	1.8	V	-7.22	47.35	54	-6.65
4824	54.16	PK	272	1.7	H	-3.53	50.63	74	-23.37
4824	53.89	PK	276	1.6	V	-3.53	50.36	74	-23.64
Middle Channel(2442MHz)									
4884	54.26	PK	267	2.2	H	-3.37	50.89	74	-23.11
4884	54.96	PK	68	1.4	V	-3.37	51.59	74	-22.41
High Channel(2472 MHz)									
2483.5	69.61	PK	99	2.2	H	-7.2	62.41	74	-11.59
2483.5	55.53	AV	99	2.2	H	-7.2	48.33	54	-5.67
2483.5	69.60	PK	162	1.7	V	-7.2	62.4	74	-11.6
2483.5	55.01	AV	162	1.7	V	-7.2	47.81	54	-6.19
2500	69.00	PK	224	1.9	H	-7.18	61.82	74	-12.18
2500	54.59	AV	224	1.9	H	-7.18	47.41	54	-6.59
2500	68.48	PK	292	1.9	V	-7.18	61.3	74	-12.7
2500	54.43	AV	292	1.9	V	-7.18	47.25	54	-6.75
4944	54.14	PK	222	2.2	H	-3.06	51.08	74	-22.92
4944	53.94	PK	118	1.4	V	-3.06	50.88	74	-23.12

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11n40									
Low Channel 2422MHz									
2310	67.35	PK	29	1.6	H	-7.24	60.11	74	-13.89
2310	53.38	AV	29	1.6	H	-7.24	46.14	54	-7.86
2310	67.27	PK	32	1	V	-7.24	60.03	74	-13.97
2310	53.67	AV	32	1	V	-7.24	46.43	54	-7.57
2390	68.46	PK	327	1.6	H	-7.22	61.24	74	-12.76
2390	54.65	AV	327	1.6	H	-7.22	47.43	54	-6.57
2390	68.30	PK	5	1.5	V	-7.22	61.08	74	-12.92
2390	54.26	AV	5	1.5	V	-7.22	47.04	54	-6.96
4844	53.51	PK	350	2.3	H	-3.54	49.97	74	-24.03
4844	53.42	PK	149	2.1	V	-3.54	49.88	74	-24.12
Middle Channel 2442MHz									
4884	54.01	PK	50	1.5	H	-3.37	50.64	74	-23.36
4884	54.14	PK	147	1.3	V	-3.37	50.77	74	-23.23
High Channel 2462MHz									
2483.5	70.43	PK	23	1.8	H	-7.2	63.23	74	-10.77
2483.5	55.90	AV	23	1.8	H	-7.2	48.7	54	-5.3
2483.5	70.02	PK	338	2.3	V	-7.2	62.82	74	-11.18
2483.5	55.54	AV	338	2.3	V	-7.2	48.34	54	-5.66
2500	69.15	PK	310	1.5	H	-7.18	61.97	74	-12.03
2500	55.03	AV	310	1.5	H	-7.18	47.85	54	-6.15
2500	69.17	PK	318	1	V	-7.18	61.99	74	-12.01
2500	54.86	AV	318	1	V	-7.18	47.68	54	-6.32
4924	54.28	PK	83	1.4	H	-3.16	51.12	74	-22.88
4924	54.93	PK	122	1.3	V	-3.16	51.77	74	-22.23

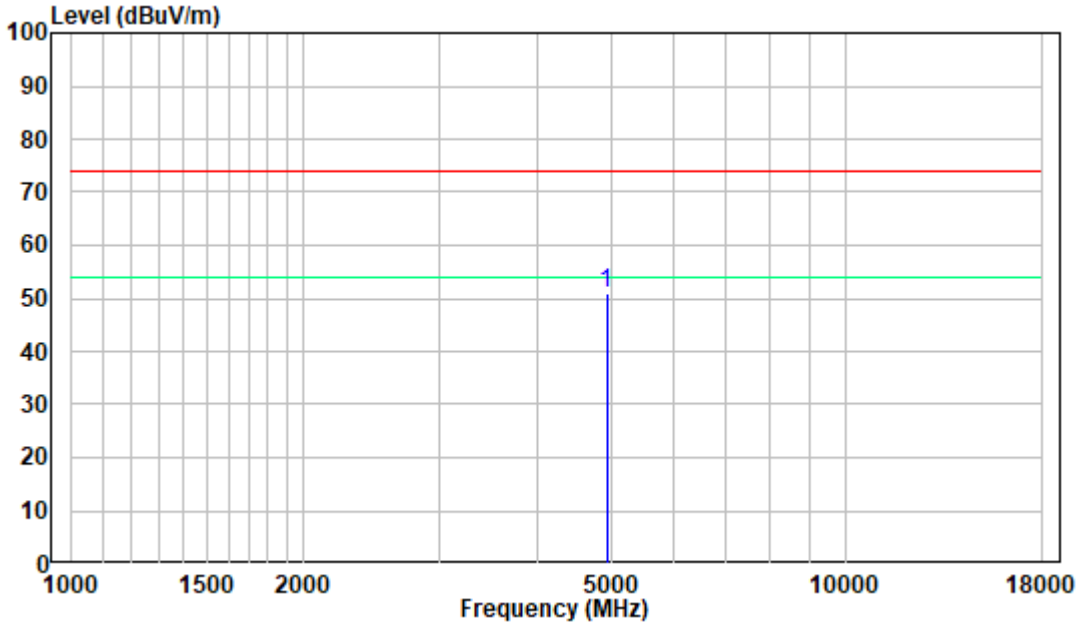
Note:
Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Absolute Level (Corrected Amplitude） = Factor + Reading
Margin = Absolute Level - Limit
The other spurious emission which is 20dB below to the limit was not recorded.
The test result of peak was less than the limit of average, so just peak values were recorded.

1-18 GHz:

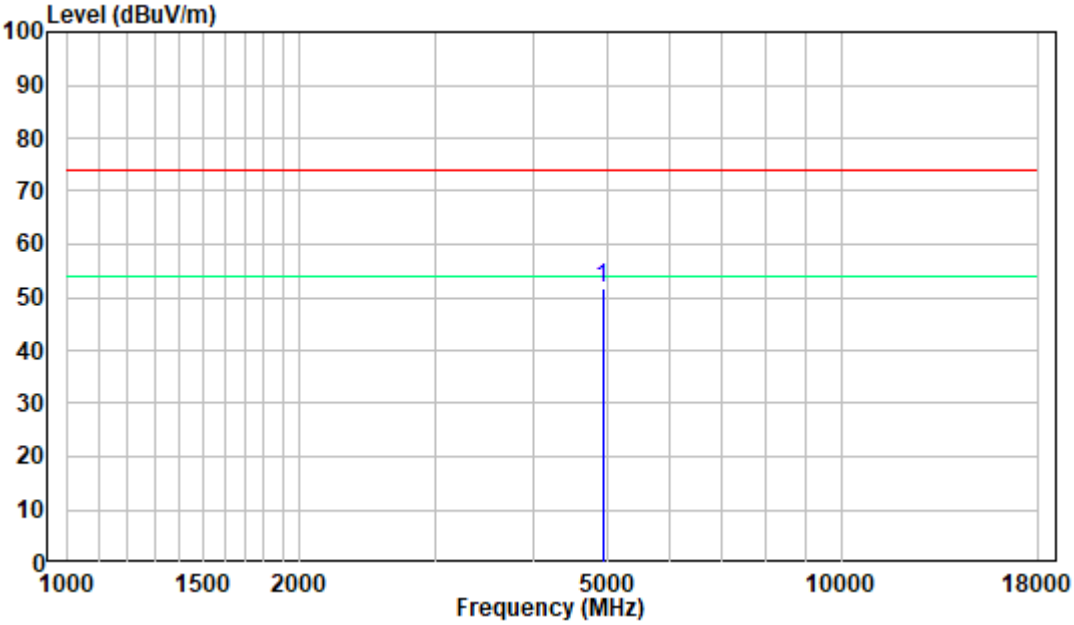
Pre-scan Plots:

802.11 n40 High Channel

Horizontal



Vertical

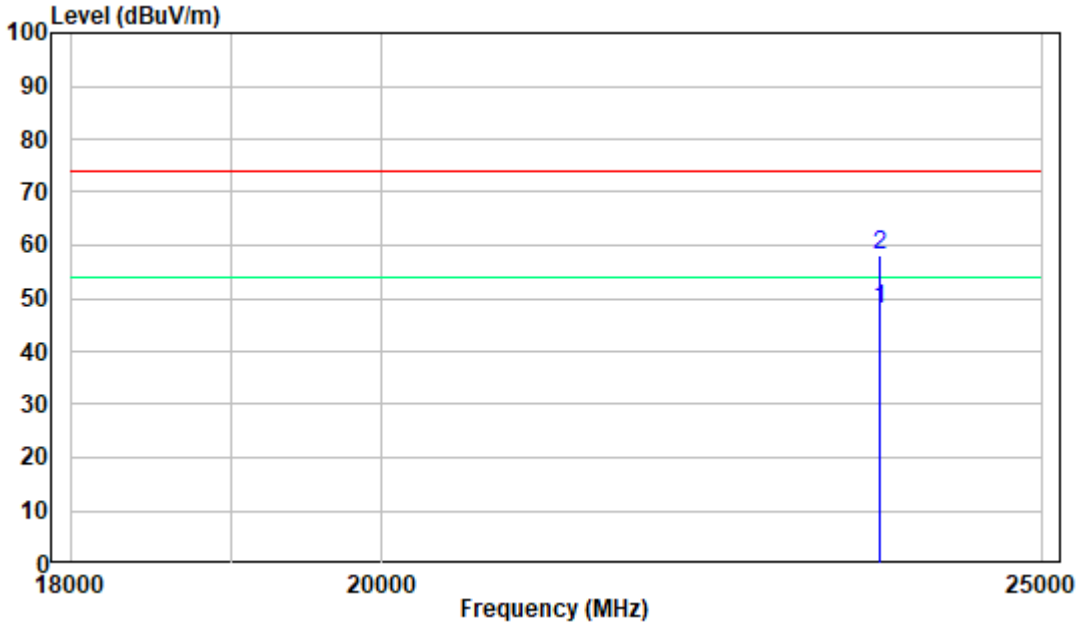


18 -25GHz:

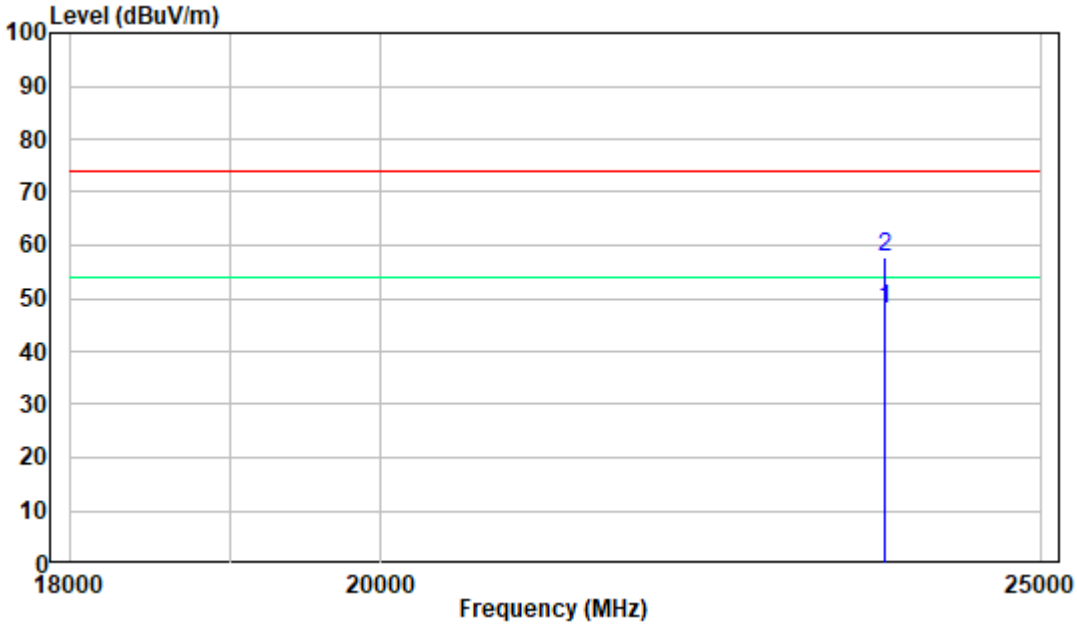
Pre-scan Plots:

802.11 n40 High Channel

Horizontal



Vertical



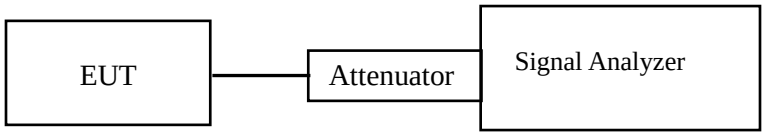
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	60 %
ATM Pressure:	101.0 kPa

The testing was performed by Andy Yu on 2022-08-06

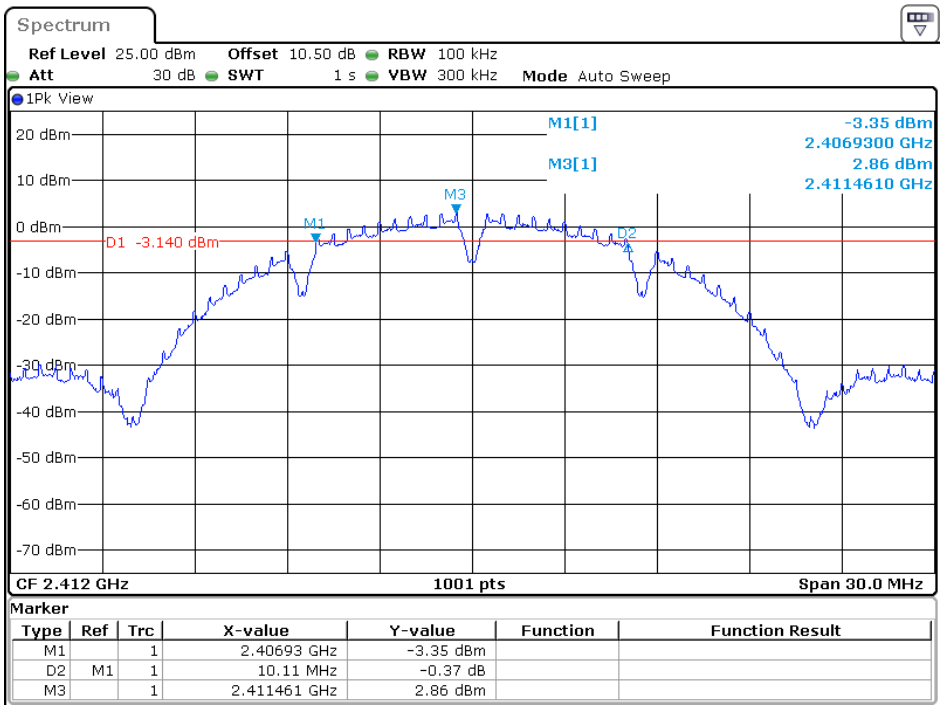
EUT operation mode: Transmitting

Test Result: Compliant.

Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	99% Emission Bandwidth (MHz)	Limit (kHz)
802.11b mode				
Low	2412	10.11	15.14	≥500
Middle	2442	10.11	15.14	≥500
High	2472	10.11	15.10	≥500
802.11g mode				
Low	2412	16.41	17.22	≥500
Middle	2442	16.41	17.22	≥500
High	2472	16.41	17.22	≥500
802.11n-HT20 mode				
Low	2412	17.67	18.06	≥500
Middle	2442	17.67	18.06	≥500
High	2472	17.79	17.98	≥500
802.11n-HT40 mode				
Low	2422	36.48	36.76	≥500
Middle	2442	36.48	36.76	≥500
High	2462	36.48	36.76	≥500

802.11b mode:

6dB Bandwidth, Low Channel

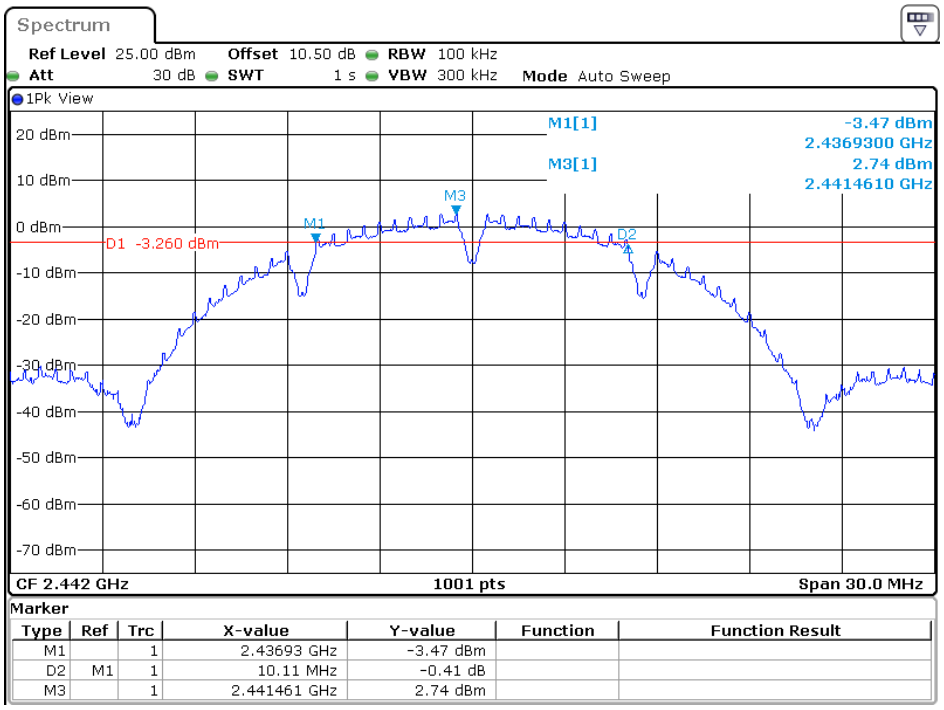


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40693 GHz	-3.35 dBm		
D2	M1	1	10.11 MHz	-0.37 dB		
M3		1	2.411461 GHz	2.86 dBm		

Date: 6.AUG.2022 14:55:58

6dB Bandwidth, Middle Channel

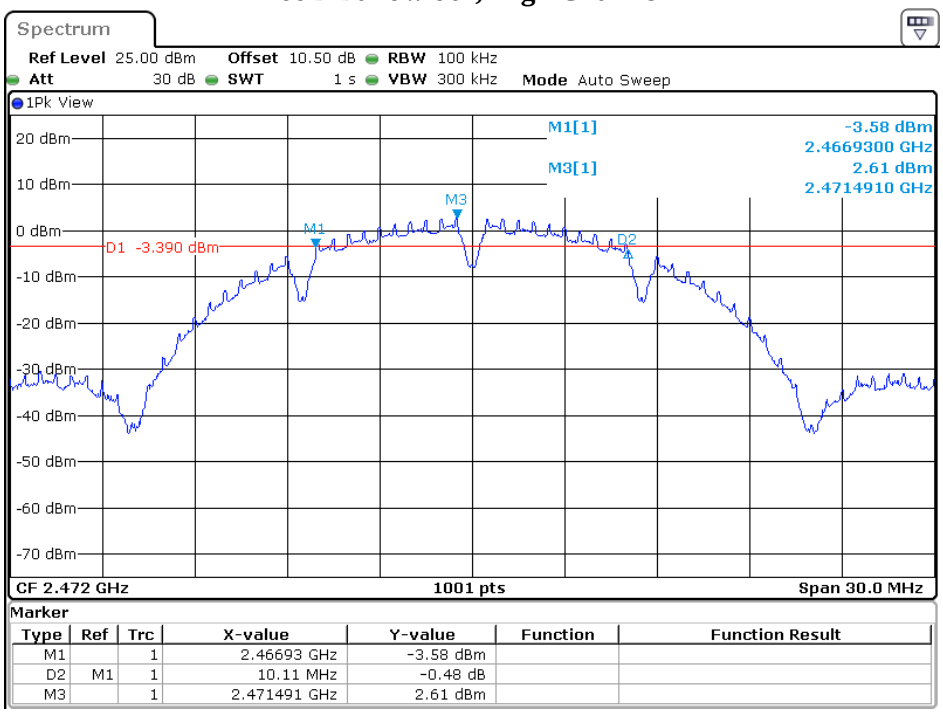


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.43693 GHz	-3.47 dBm		
D2	M1	1	10.11 MHz	-0.41 dB		
M3		1	2.441461 GHz	2.74 dBm		

Date: 6.AUG.2022 15:00:42

6dB Bandwidth, High Channel

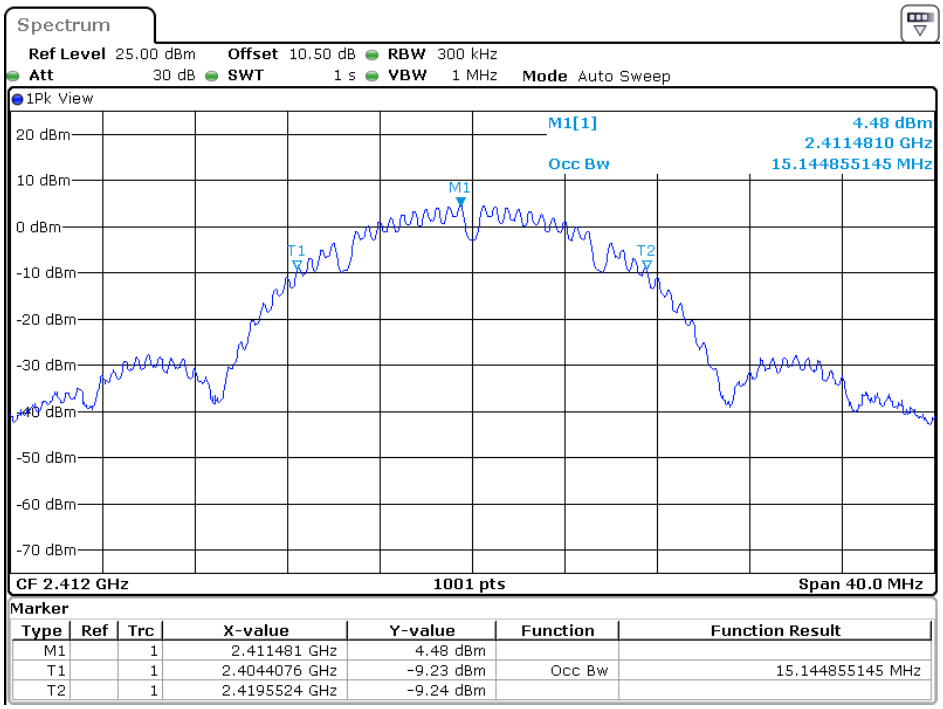


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46693 GHz	-3.58 dBm		
D2	M1	1	10.11 MHz	-0.48 dB		
M3		1	2.471491 GHz	2.61 dBm		

Date: 6.AUG.2022 15:04:54

99% Emission Bandwidth, Low Channel

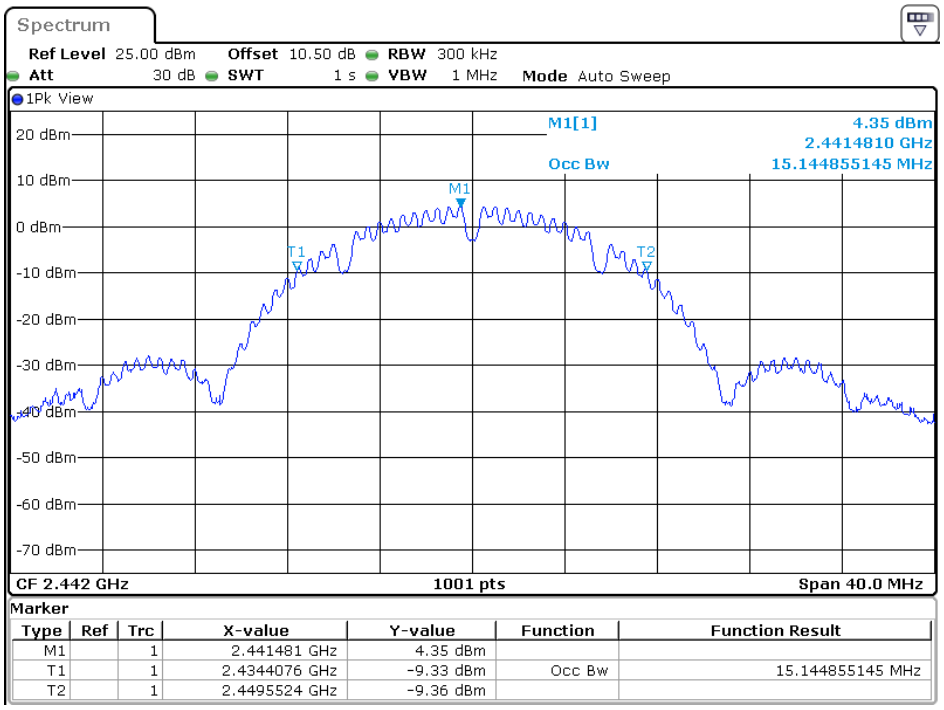


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.411481 GHz	4.48 dBm		
T1		1	2.4044076 GHz	-9.23 dBm	Occ Bw	15.144855145 MHz
T2		1	2.4195524 GHz	-9.24 dBm		

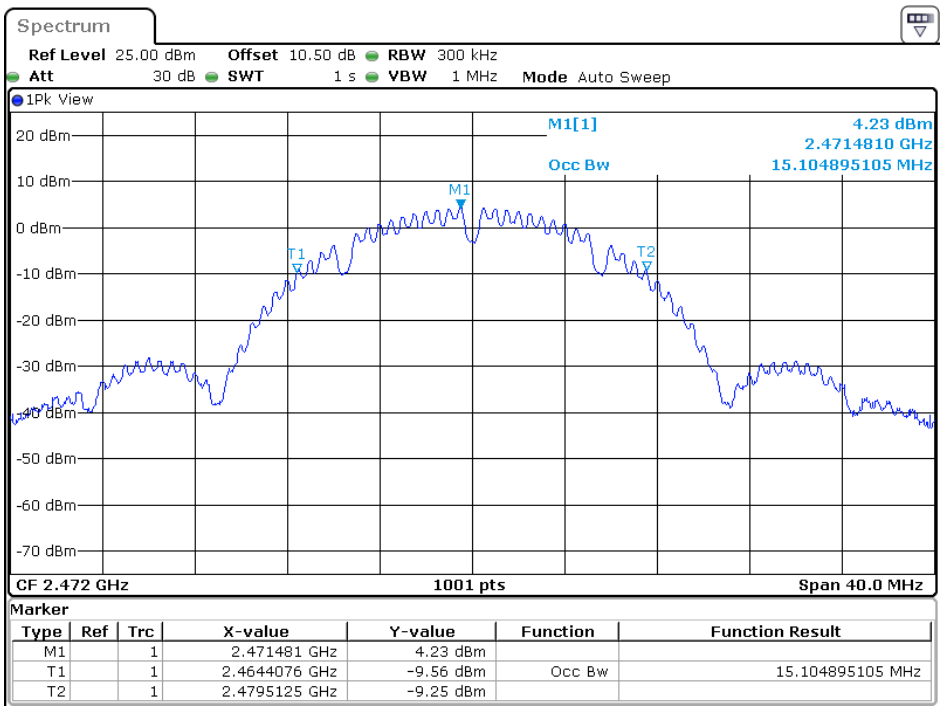
Date: 6.AUG.2022 14:55:27

99% Emission Bandwidth, Middle Channel



Date: 6.AUG.2022 15:00:13

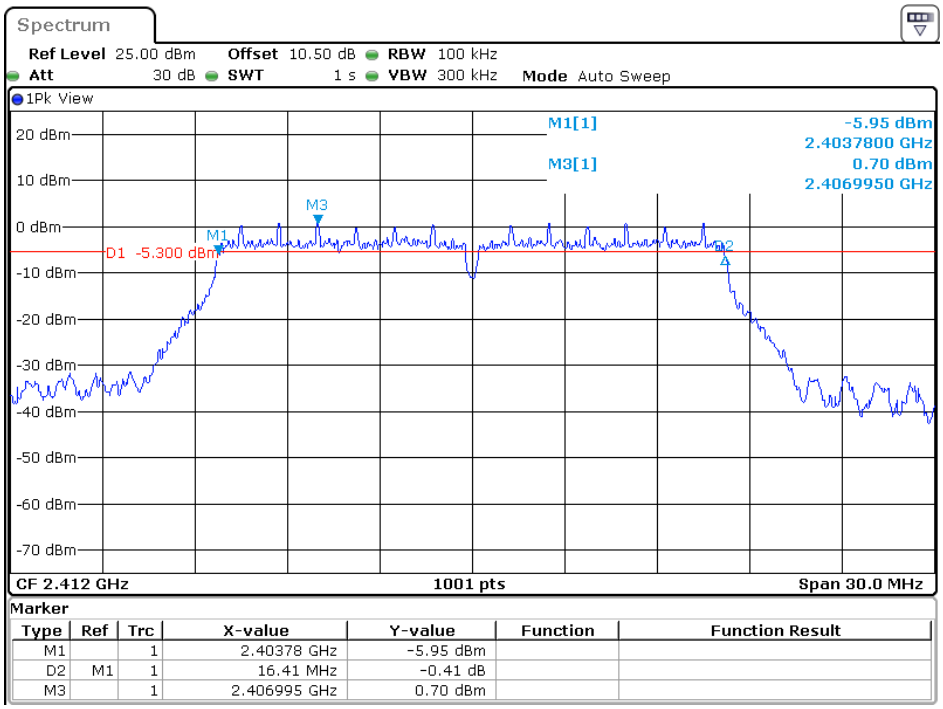
99% Emission Bandwidth, High Channel



Date: 6.AUG.2022 15:04:24

802.11g mode:

6dB Bandwidth, Low Channel

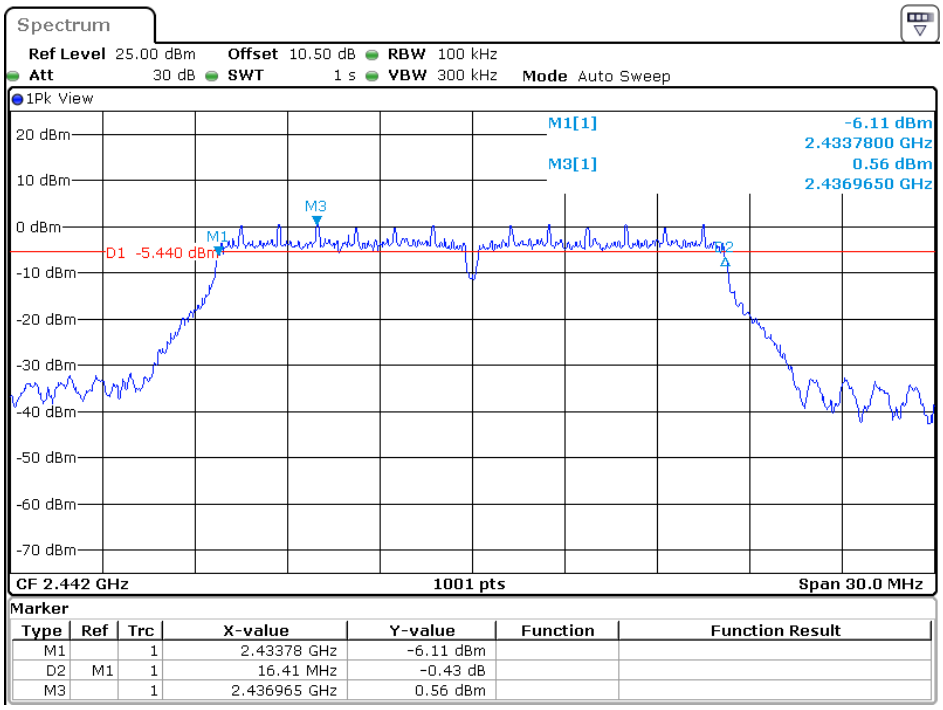


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40378 GHz	-5.95 dBm		
D2	M1	1	16.41 MHz	-0.41 dB		
M3		1	2.406995 GHz	0.70 dBm		

Date: 6.AUG.2022 15:20:19

6dB Bandwidth, Middle Channel

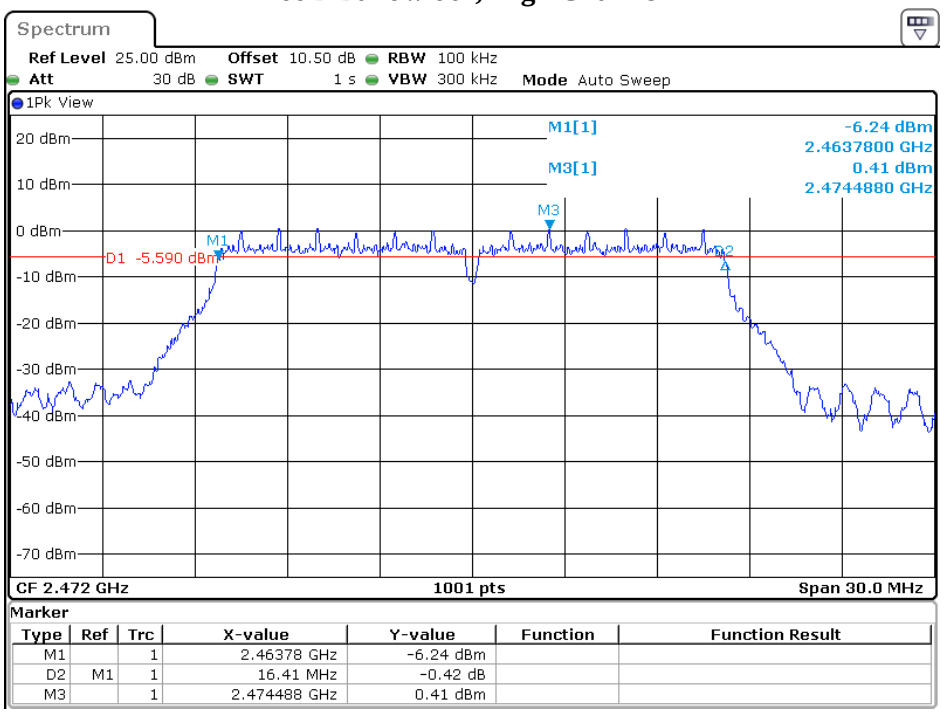


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.43378 GHz	-6.11 dBm		
D2	M1	1	16.41 MHz	-0.43 dB		
M3		1	2.436965 GHz	0.56 dBm		

Date: 6.AUG.2022 15:25:46

6dB Bandwidth, High Channel

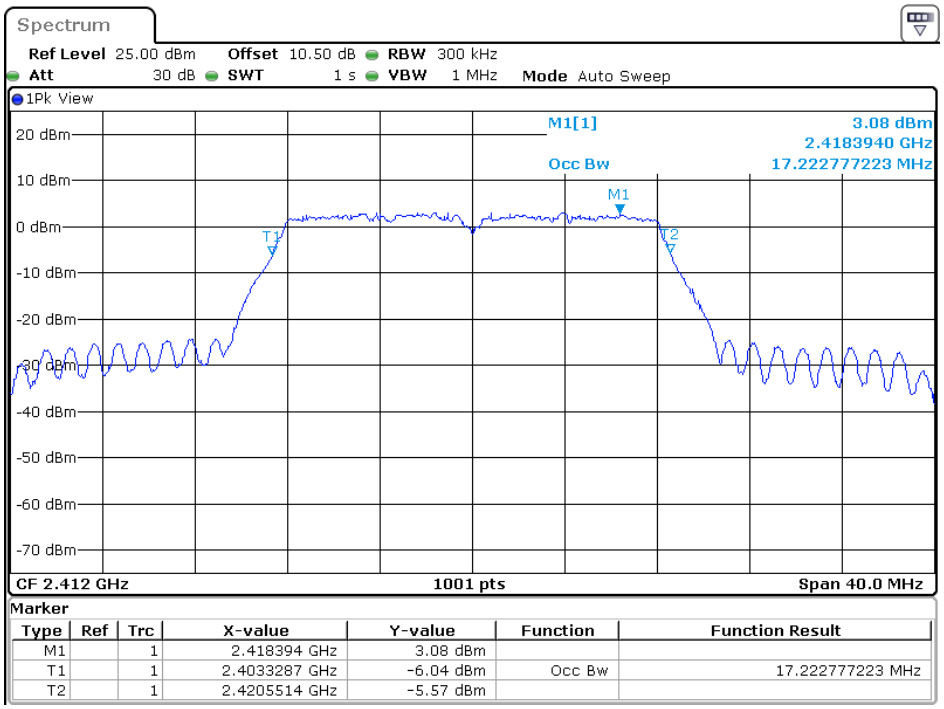


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46378 GHz	-6.24 dBm		
D2	M1	1	16.41 MHz	-0.42 dB		
M3		1	2.474488 GHz	0.41 dBm		

Date: 6.AUG.2022 15:30:55

99% Emission Bandwidth, Low Channel

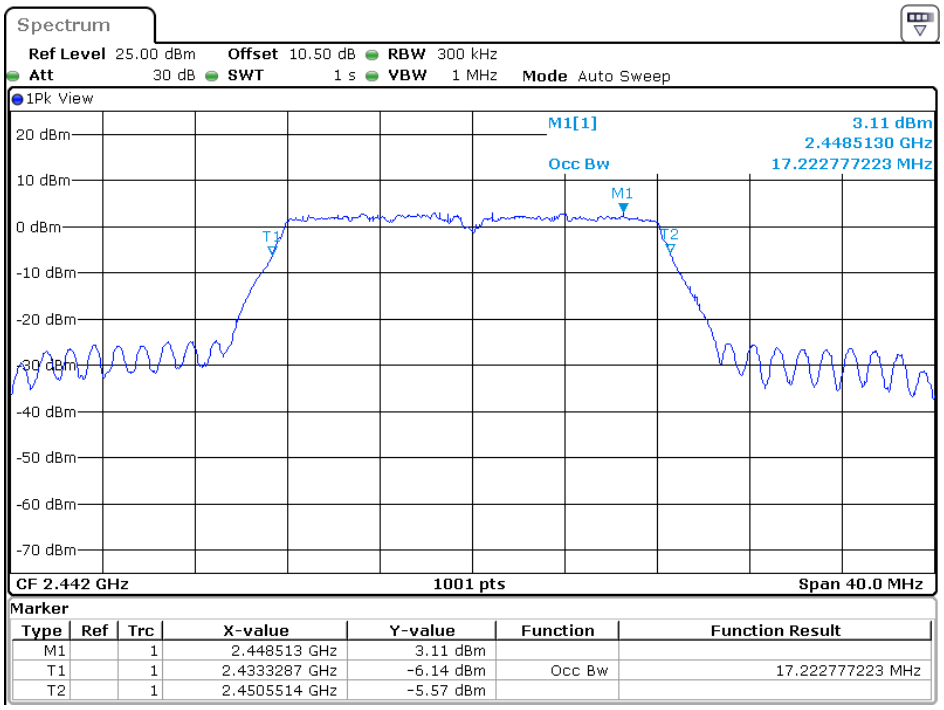


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.418394 GHz	3.08 dBm		
T1		1	2.4033287 GHz	-6.04 dBm	Occ Bw	17.222777223 MHz
T2		1	2.4205514 GHz	-5.57 dBm		

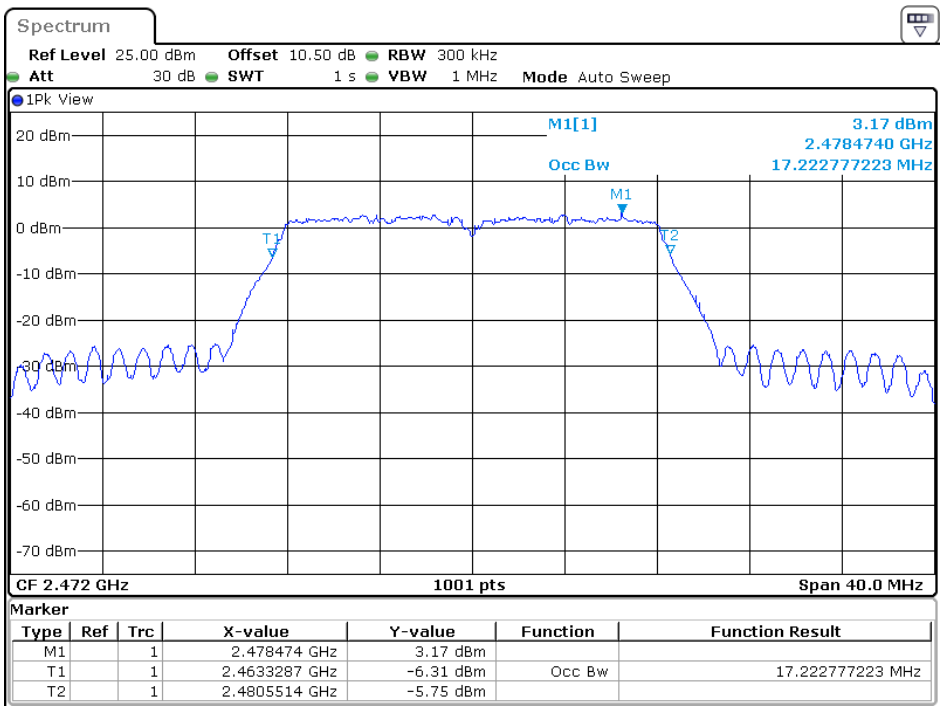
Date: 6.AUG.2022 15:19:48

99% Emission Bandwidth, Middle Channel



Date: 6.AUG.2022 15:25:16

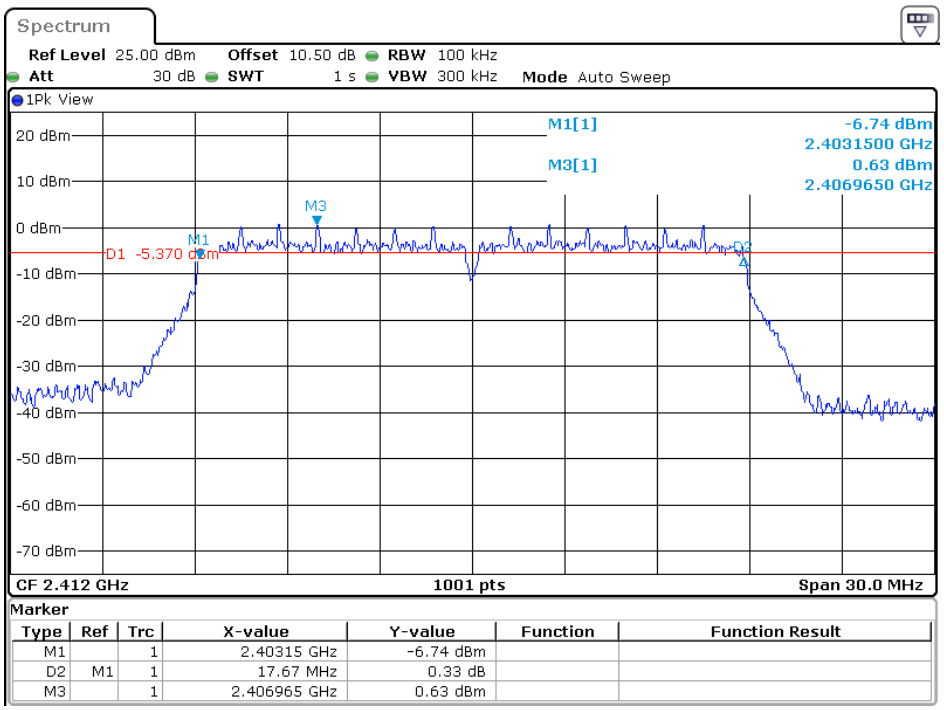
99% Emission Bandwidth, High Channel



Date: 6.AUG.2022 15:30:25

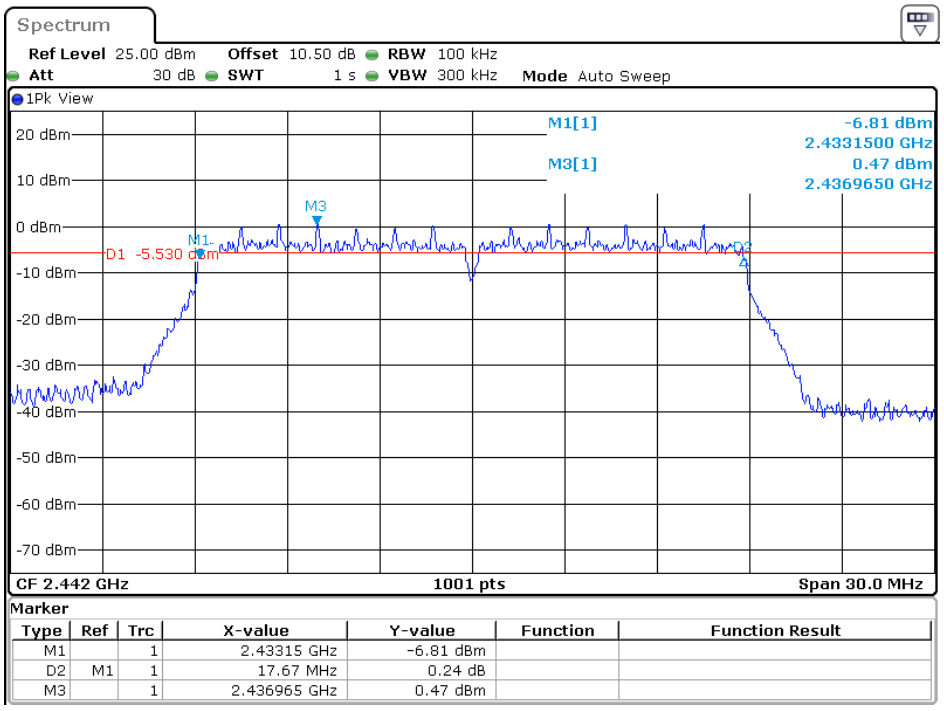
802.11n20 mode:

6dB Bandwidth, Low Channel



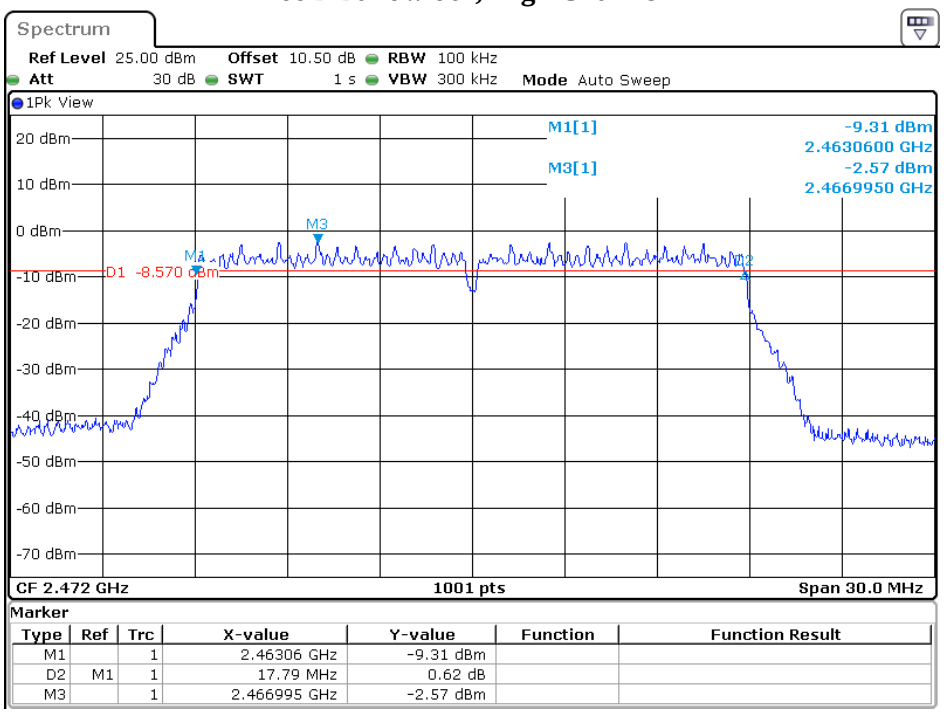
Date: 6.AUG.2022 15:36:09

6dB Bandwidth, Middle Channel



Date: 6.AUG.2022 15:41:30

6dB Bandwidth, High Channel

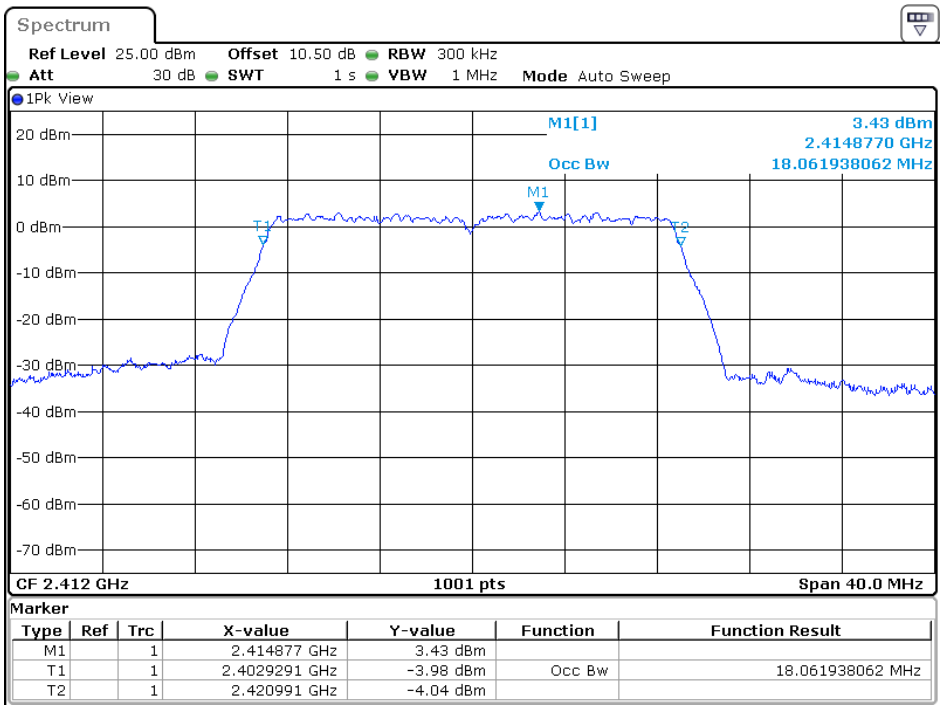


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46306 GHz	-9.31 dBm		
D2	M1	1	17.79 MHz	0.62 dB		
M3		1	2.466995 GHz	-2.57 dBm		

Date: 6.AUG.2022 15:46:42

99% Emission Bandwidth, Low Channel

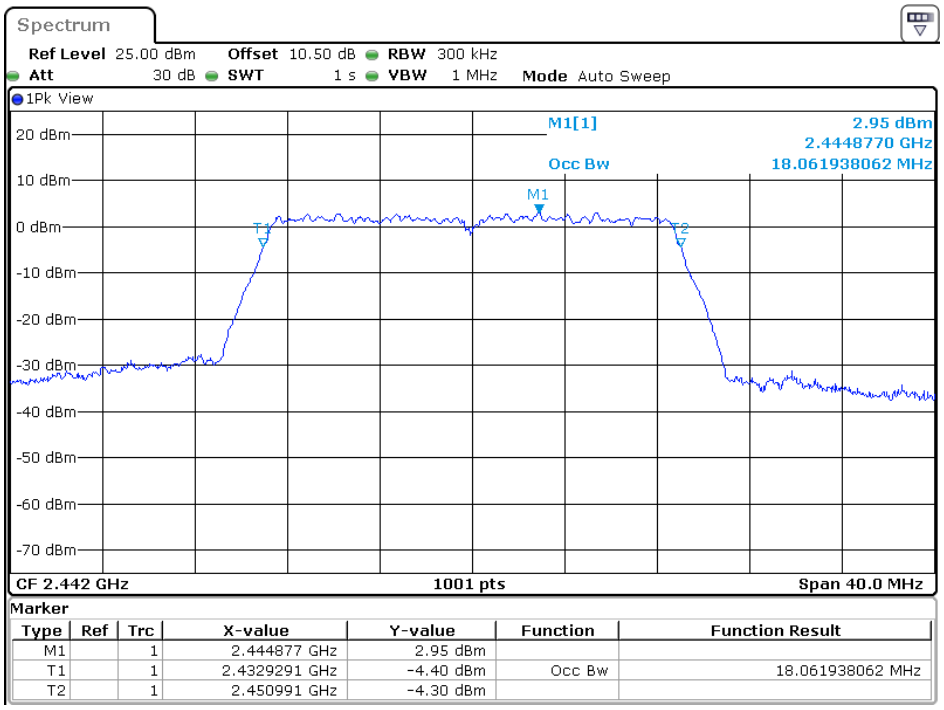


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.414877 GHz	3.43 dBm		
T1		1	2.4029291 GHz	-3.98 dBm	Occ Bw	18.061938062 MHz
T2		1	2.420991 GHz	-4.04 dBm		

Date: 6.AUG.2022 15:35:39

99% Emission Bandwidth, Middle Channel

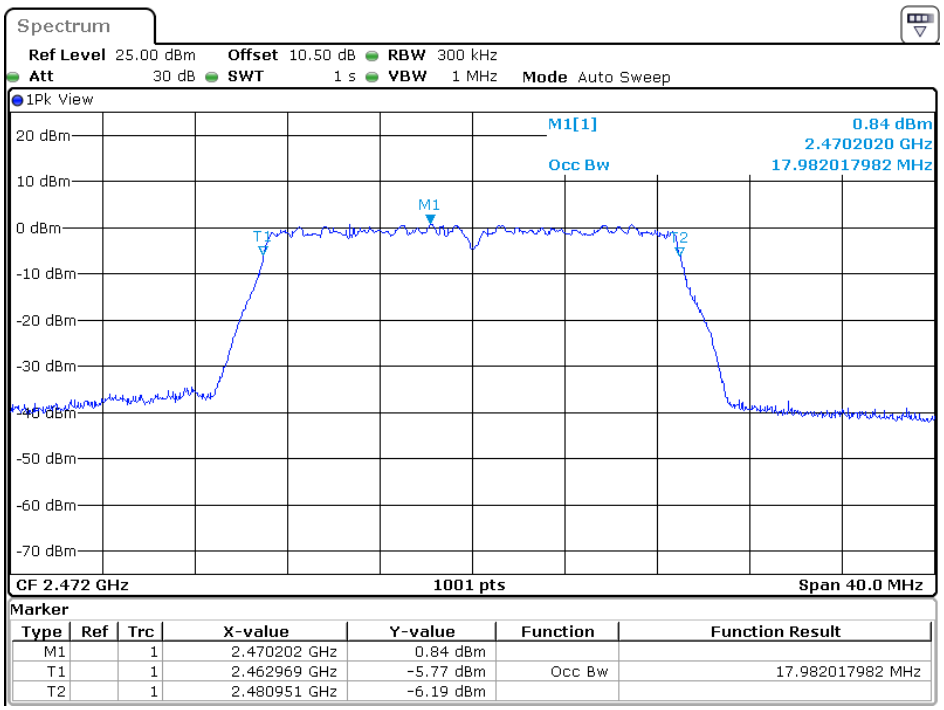


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.444877 GHz	2.95 dBm		
T1		1	2.4329291 GHz	-4.40 dBm	Occ Bw	18.061938062 MHz
T2		1	2.450991 GHz	-4.30 dBm		

Date: 6.AUG.2022 15:40:59

99% Emission Bandwidth, High Channel



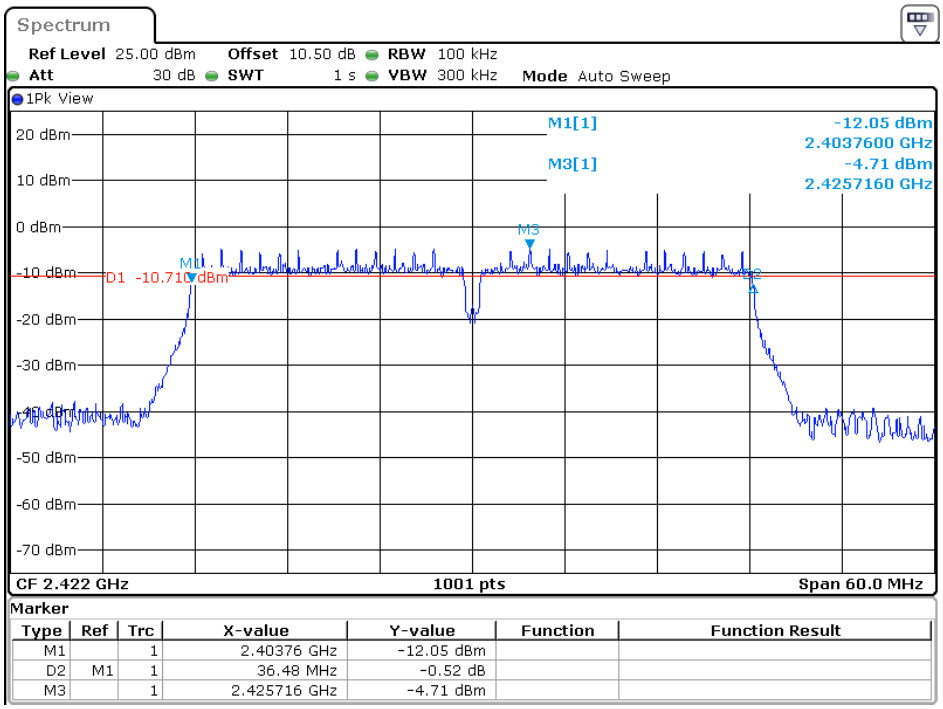
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.470202 GHz	0.84 dBm		
T1		1	2.462969 GHz	-5.77 dBm	Occ Bw	17.982017982 MHz
T2		1	2.480951 GHz	-6.19 dBm		

Date: 6.AUG.2022 15:46:11

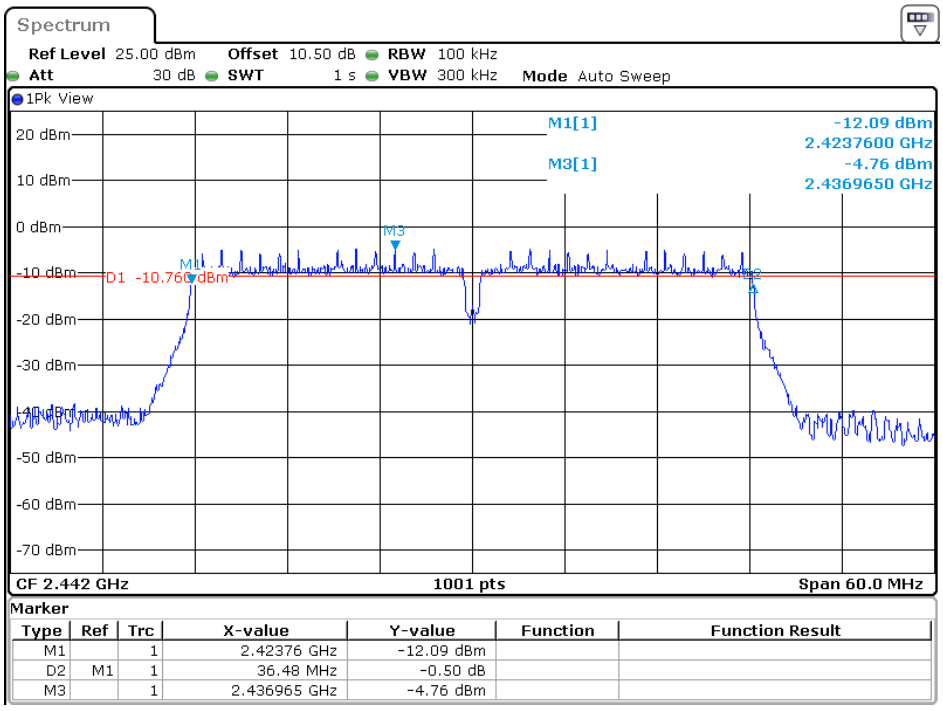
802.11n40 mode:

6dB Bandwidth, Low Channel



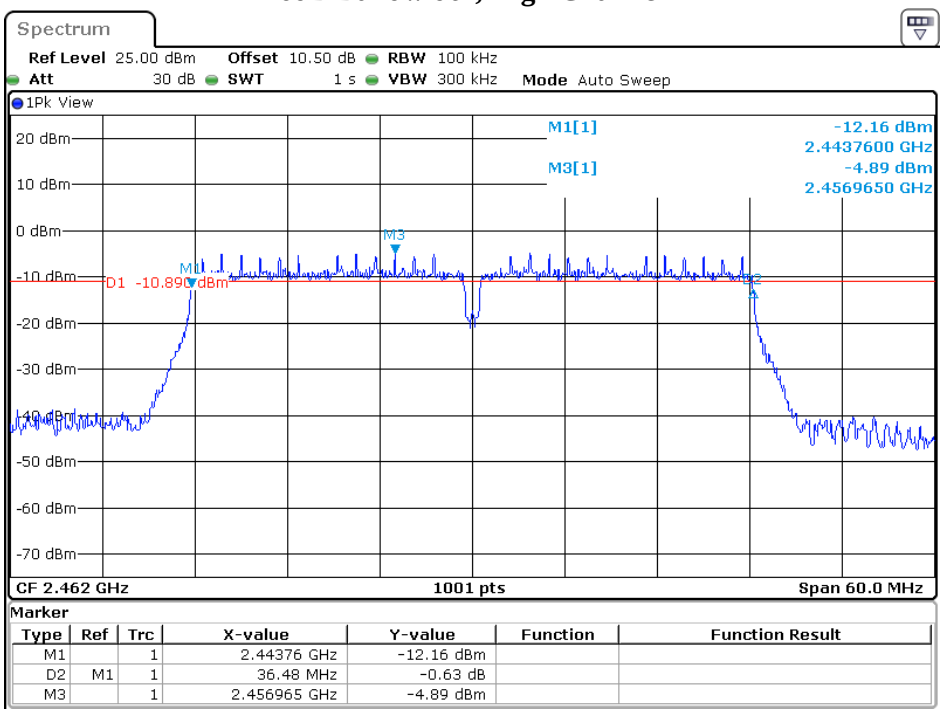
Date: 6.AUG.2022 16:06:07

6dB Bandwidth, Middle Channel



Date: 6.AUG.2022 16:13:30

6dB Bandwidth, High Channel



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.44376 GHz	-12.16 dBm		
D2	M1	1	36.48 MHz	-0.63 dB		
M3		1	2.456965 GHz	-4.89 dBm		

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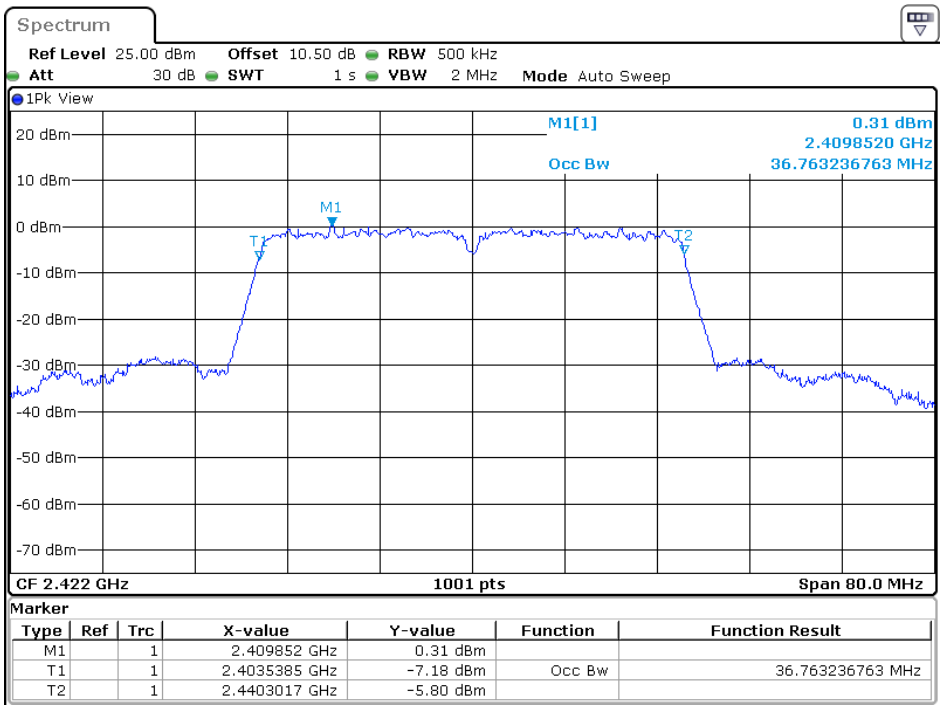
99% Emission Bandwidth, Low Channel

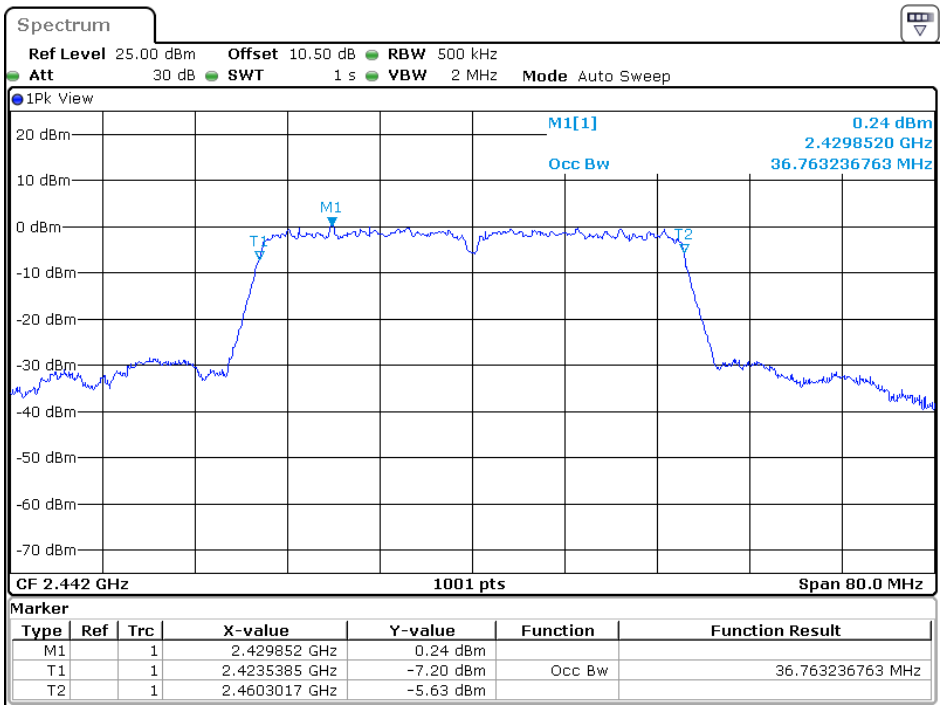


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.409852 GHz	0.31 dBm		
T1		1	2.4035385 GHz	-7.18 dBm	Occ Bw	36.763236763 MHz
T2		1	2.4403017 GHz	-5.80 dBm		

Date: 6.AUG.2022 16:05:37

99% Emission Bandwidth, Middle Channel

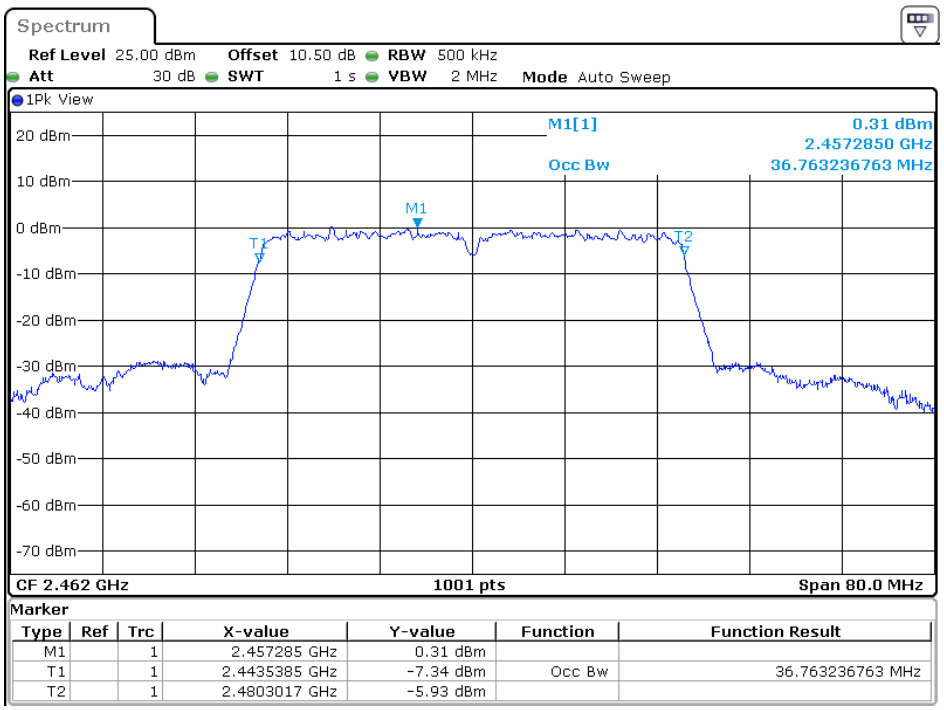


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.429852 GHz	0.24 dBm		
T1		1	2.4235385 GHz	-7.20 dBm	Occ Bw	36.763236763 MHz
T2		1	2.4603017 GHz	-5.63 dBm		

Date: 6.AUG.2022 16:12:59

99% Emission Bandwidth, High Channel



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.457285 GHz	0.31 dBm		
T1		1	2.4435385 GHz	-7.34 dBm	Occ Bw	36.763236763 MHz
T2		1	2.4803017 GHz	-5.93 dBm		

Date: 6.AUG.2022 16:17:53

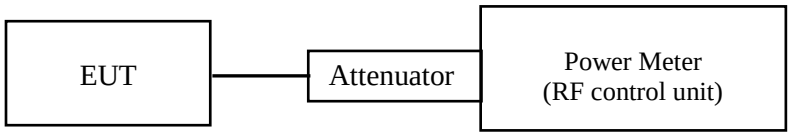
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



Note: the RF control unit has a built-in power sensor.

Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	60 %
ATM Pressure:	101.0 kPa

The testing was performed by Andy Yu on 2022-08-06

EUT operation mode: Transmitting

Test Result: Compliant.

SISO Mode Condition

Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)
802.11b mode			
Low	2412	11.03	30
Middle	2442	10.91	30
High	2472	10.78	30
802.11g mode			
Low	2412	12.41	30
Middle	2442	12.12	30
High	2472	12.28	30
802.11n HT20 mode			
Low	2412	12.31	30
Middle	2442	12.21	30
High	2472	11.60	30
802.11n HT40 mode			
Low	2422	9.73	30
Middle	2442	9.67	30
High	2462	9.56	30

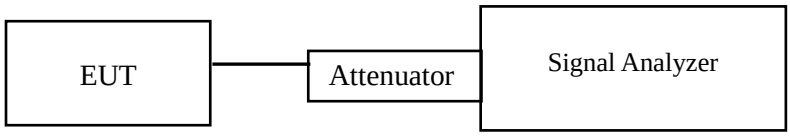
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	60 %
ATM Pressure:	101.0 kPa

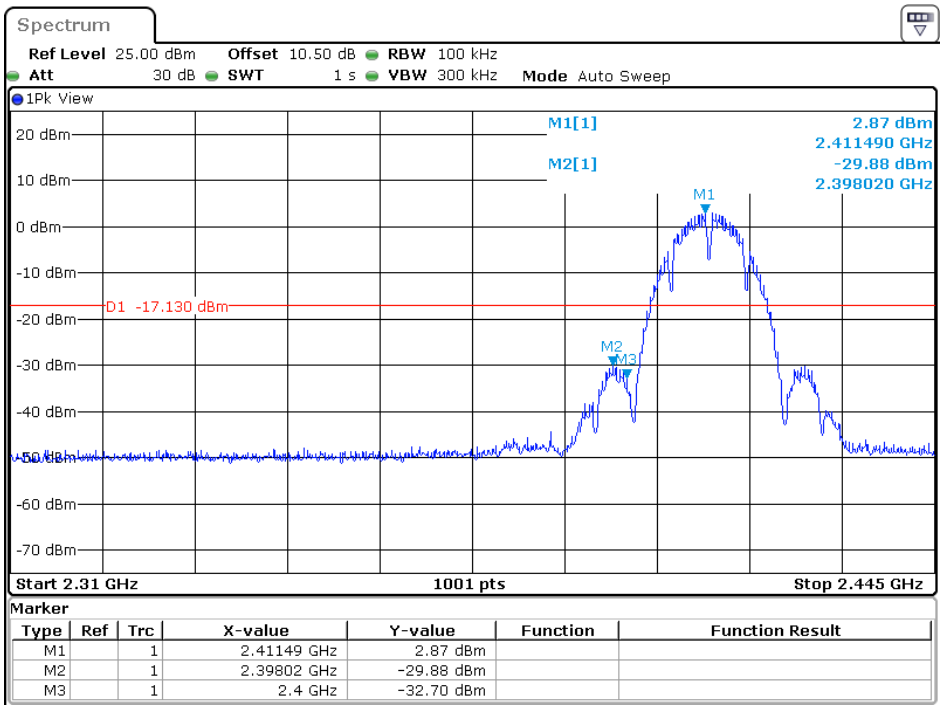
The testing was performed by Andy Yu on 2022-08-06

EUT operation mode: Transmitting

Test Result: Compliant.

802.11b:

Band Edge, 2412MHz

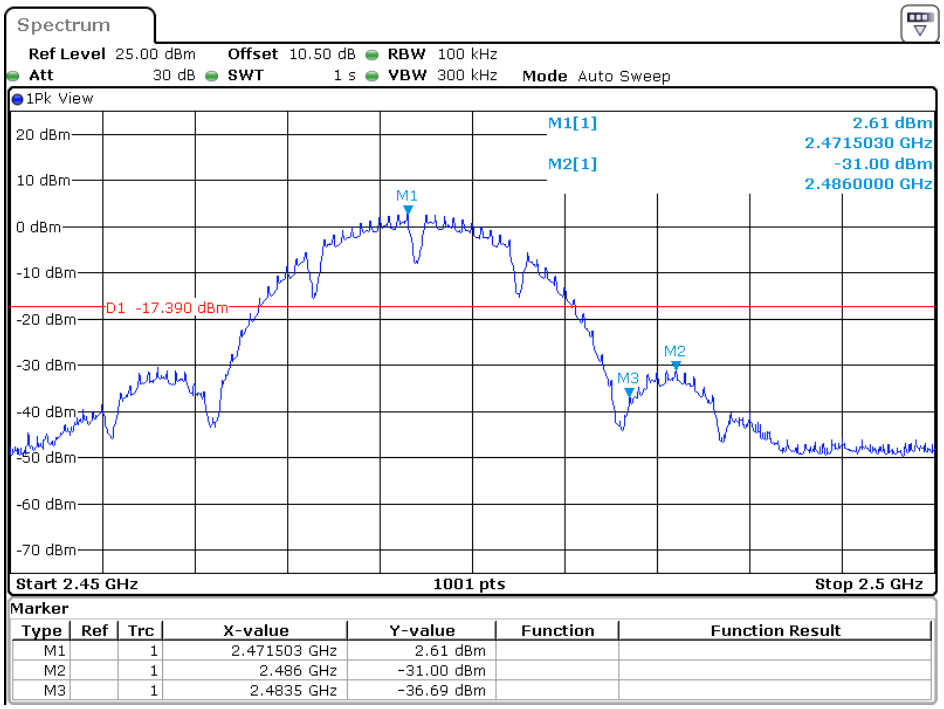


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41149 GHz	2.87 dBm		
M2		1	2.39802 GHz	-29.88 dBm		
M3		1	2.4 GHz	-32.70 dBm		

Date: 6.AUG.2022 14:57:09

Band Edge, 2472MHz



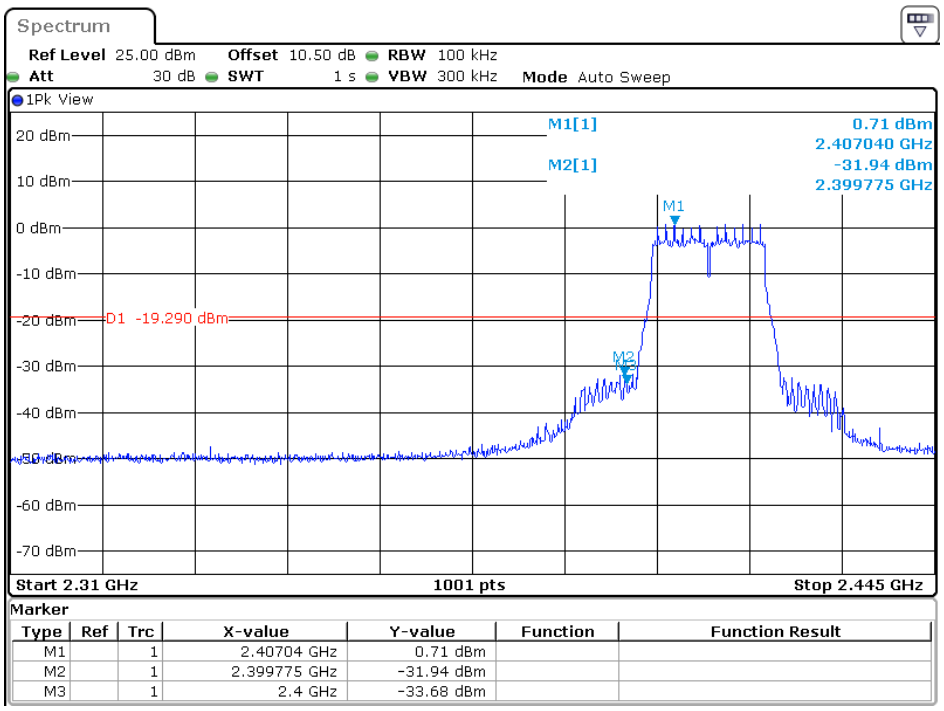
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.471503 GHz	2.61 dBm		
M2		1	2.486 GHz	-31.00 dBm		
M3		1	2.4835 GHz	-36.69 dBm		

Date: 6.AUG.2022 15:06:06

802.11g:

Band Edge, 2412MHz



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40704 GHz	0.71 dBm		
M2		1	2.399775 GHz	-31.94 dBm		
M3		1	2.4 GHz	-33.68 dBm		

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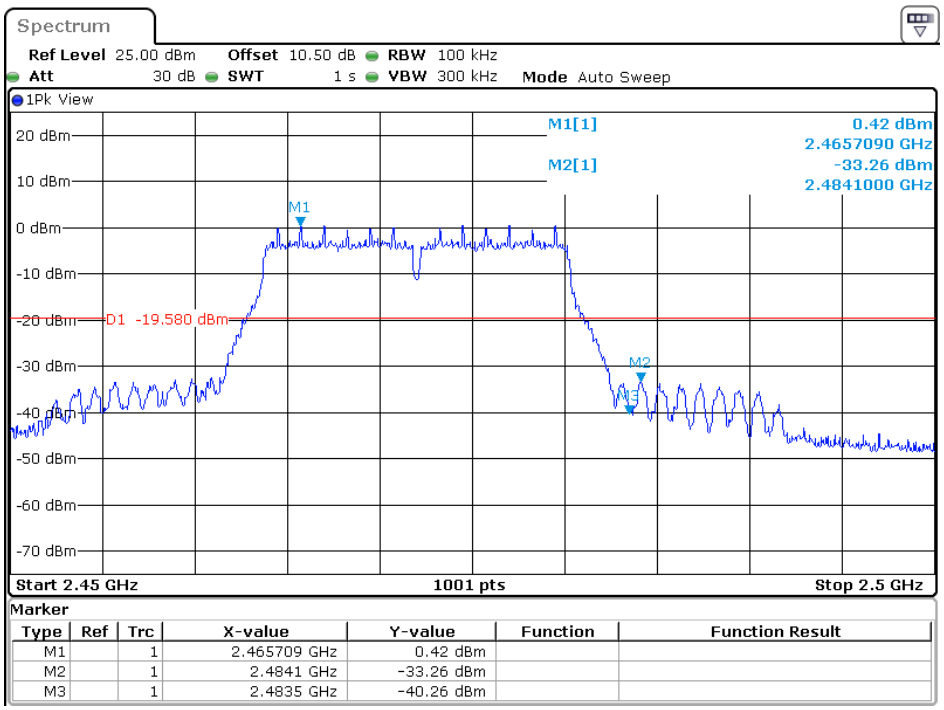
Band Edge, 2472MHz



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.465709 GHz	0.42 dBm		
M2		1	2.4841 GHz	-33.26 dBm		
M3		1	2.4835 GHz	-40.26 dBm		

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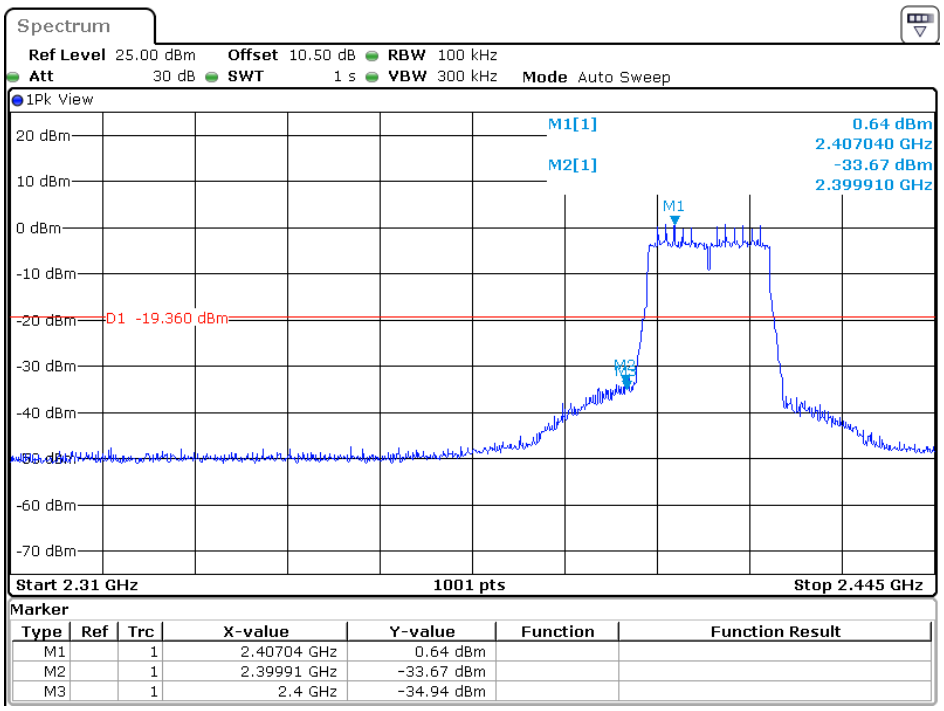
802.11n20:

Band Edge, 2412MHz

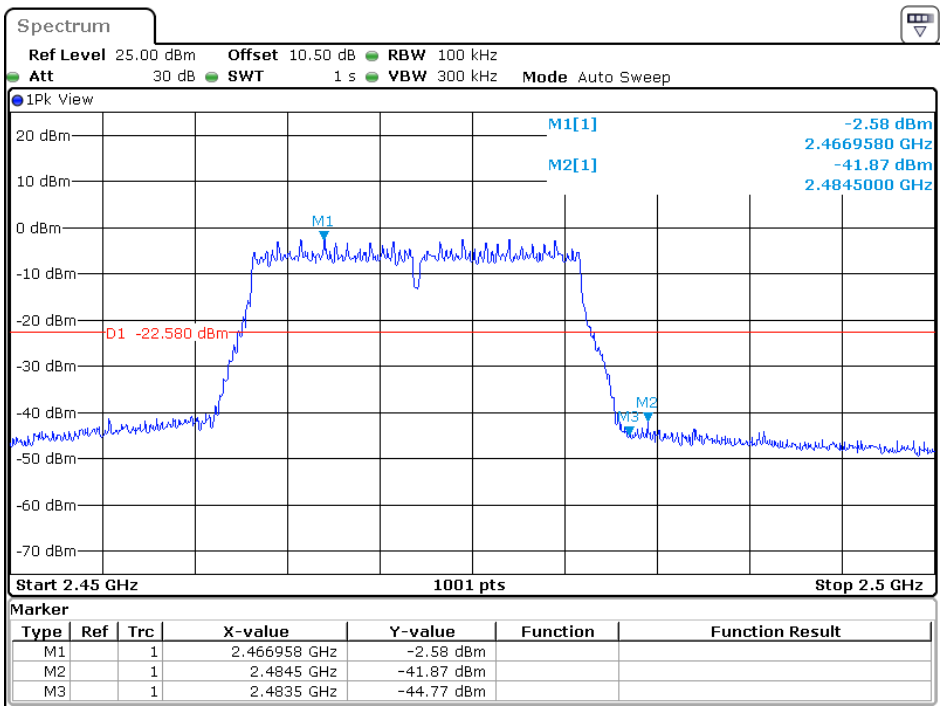


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40704 GHz	0.64 dBm		
M2		1	2.39991 GHz	-33.67 dBm		
M3		1	2.4 GHz	-34.94 dBm		

Date: 6.AUG.2022 15:37:20

Band Edge, 2472MHz



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.466958 GHz	-2.58 dBm		
M2		1	2.4845 GHz	-41.87 dBm		
M3		1	2.4835 GHz	-44.77 dBm		

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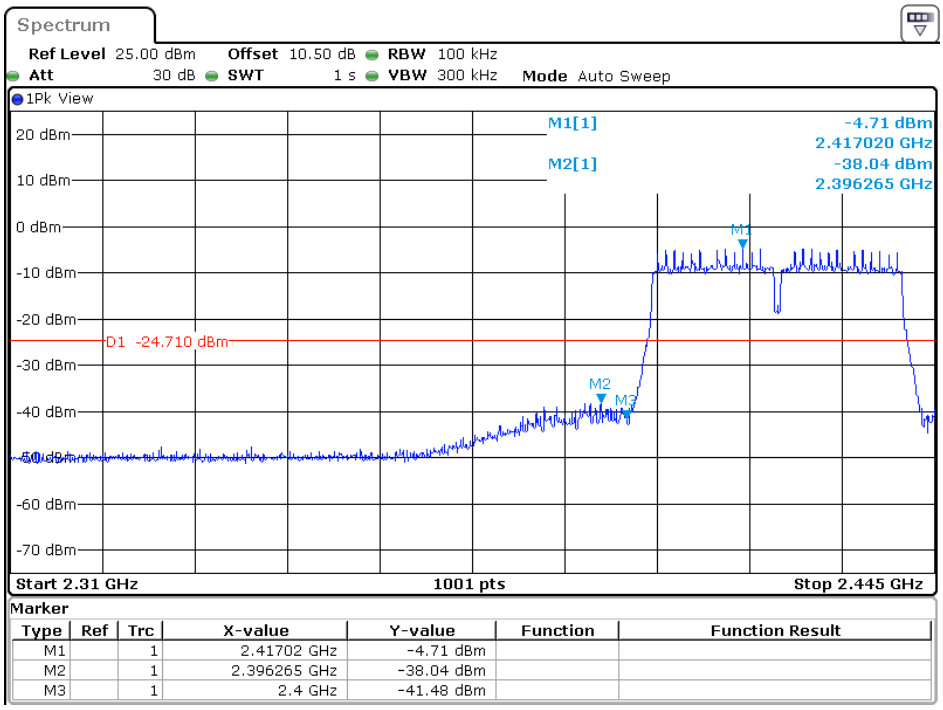
802.11n40:

Band Edge, 2422MHz

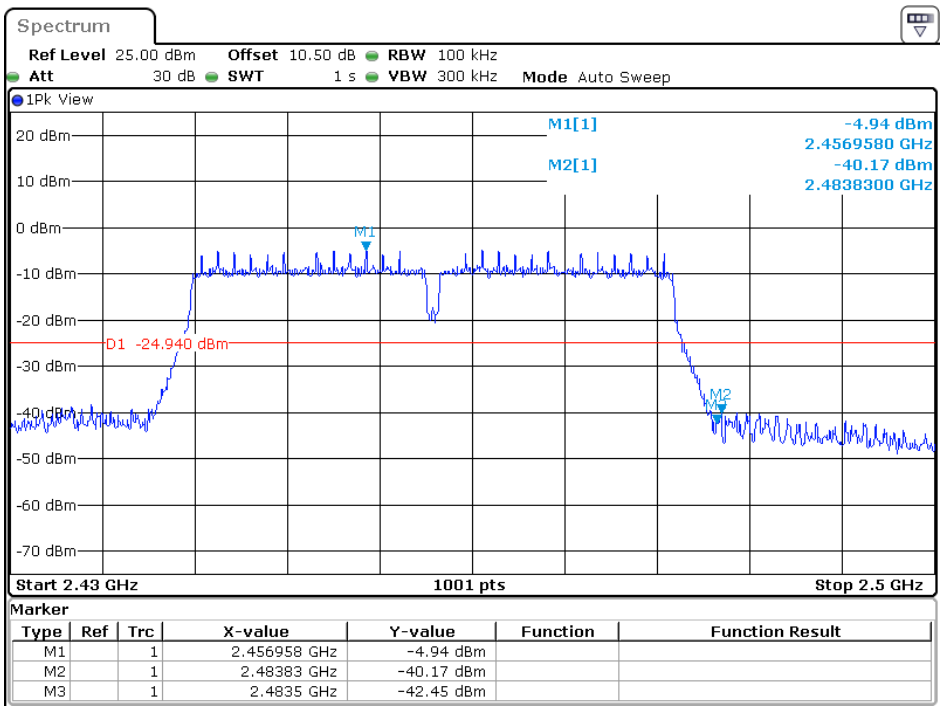


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41702 GHz	-4.71 dBm		
M2		1	2.396265 GHz	-38.04 dBm		
M3		1	2.4 GHz	-41.48 dBm		

Date: 6.AUG.2022 16:07:18

Band Edge, 2462MHz



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.456958 GHz	-4.94 dBm		
M2		1	2.48383 GHz	-40.17 dBm		
M3		1	2.4835 GHz	-42.45 dBm		

Date: 6.AUG.2022 16:19:34

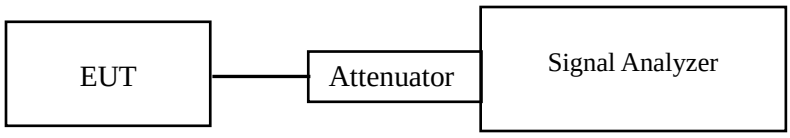
FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW to: 3kHz≤ RBW≤100 kHz.
3. Set the VBW ≥ 3×RBW.
4. Set the span to 1.5 times the DTS bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	60 %
ATM Pressure:	101.0 kPa

The testing was performed by Andy Yu on 2022-08-06

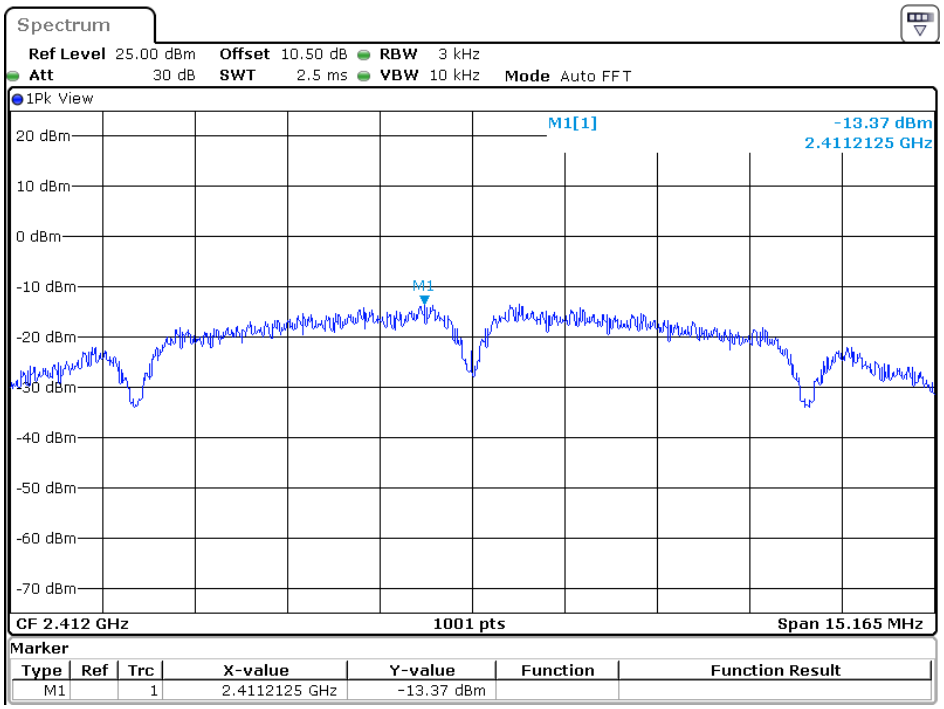
EUT operation mode: Transmitting

Test Result: Compliant.

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
802.11b mode			
Low	2412	-13.37	≤8
Middle	2442	-13.44	≤8
High	2472	-13.58	≤8
802.11g mode			
Low	2412	-13.88	≤8
Middle	2442	-14.74	≤8
High	2472	-14.61	≤8
802.11n-HT20 mode			
Low	2412	-13.88	≤8
Middle	2442	-14.21	≤8
High	2472	-16.79	≤8
802.11n-HT40 mode			
Low	2422	-19.40	≤8
Middle	2442	-19.46	≤8
High	2462	-19.69	≤8

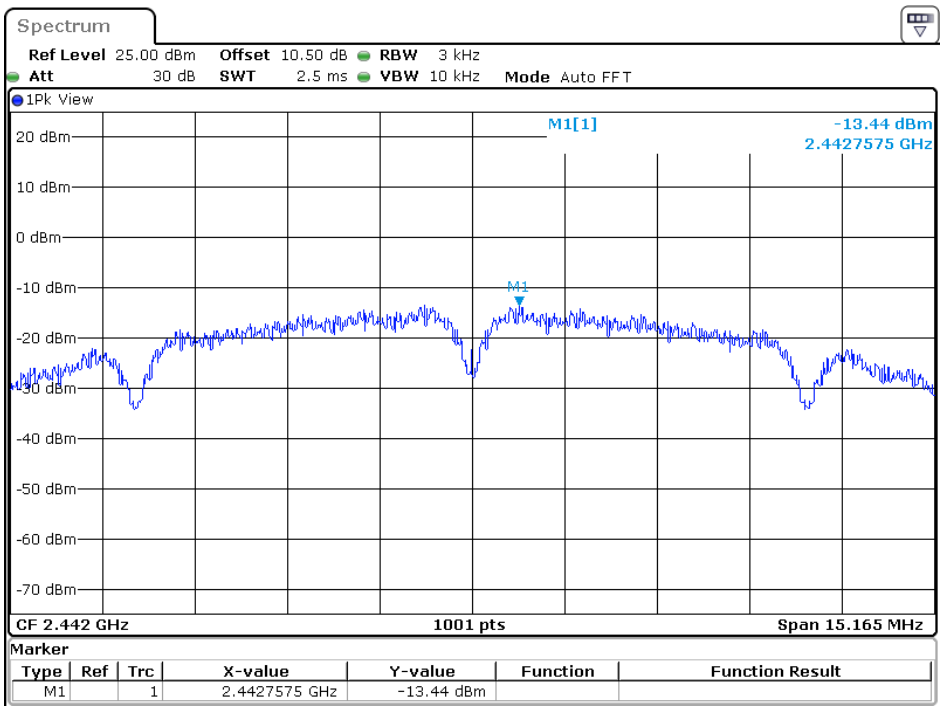
802.11b mode:

Power Spectral Density, Low Channel



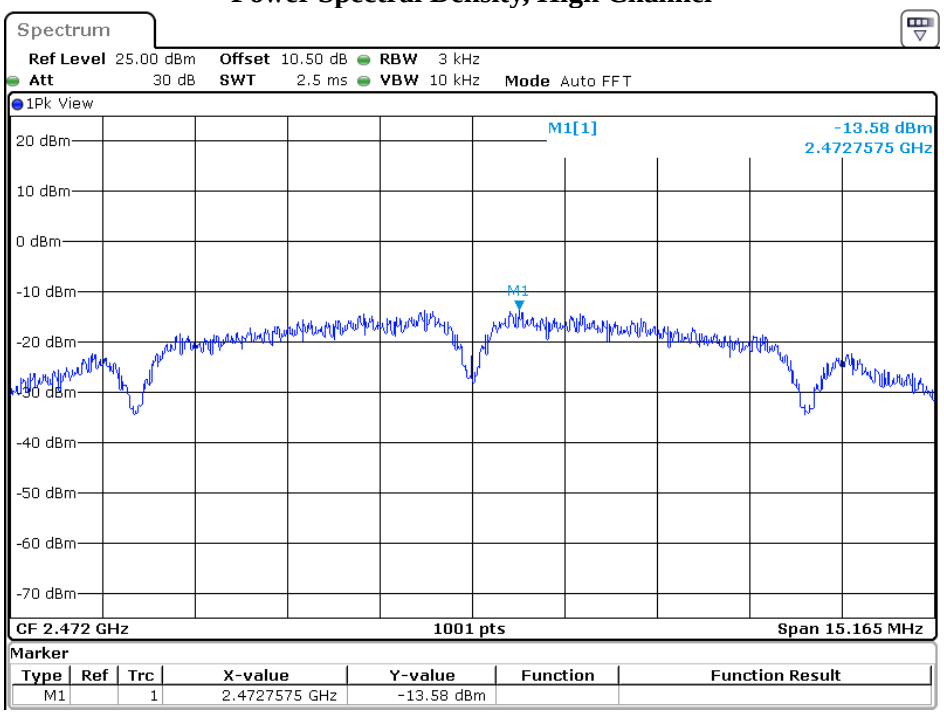
Date: 6.AUG.2022 14:56:38

Power Spectral Density, Middle Channel



Date: 6.AUG.2022 15:01:23

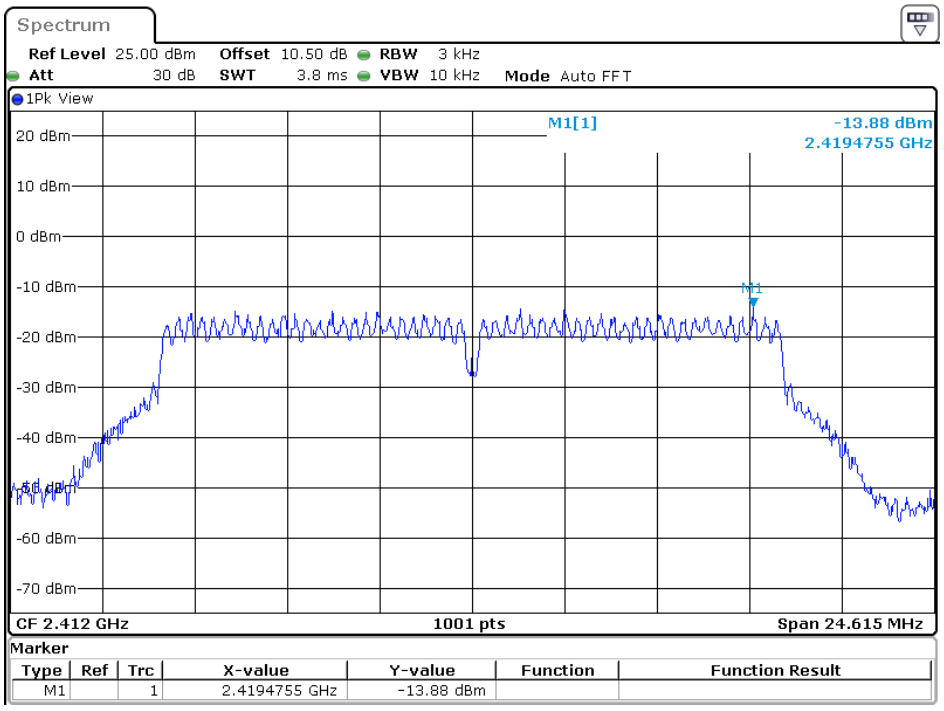
Power Spectral Density, High Channel



Date: 6.AUG.2022 15:05:35

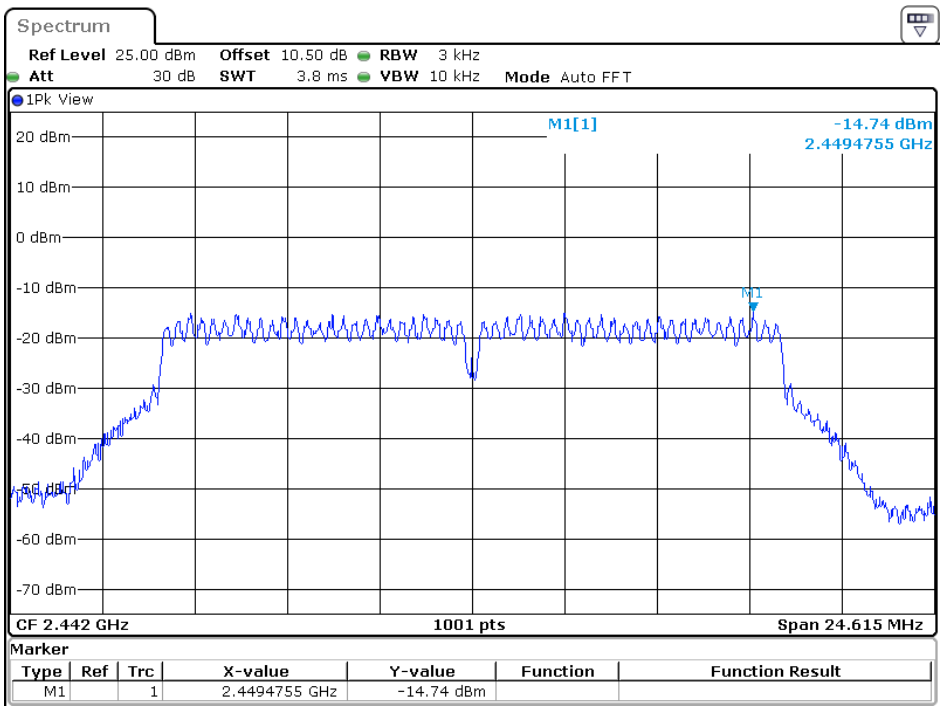
802.11g mode:

Power Spectral Density, Low Channel



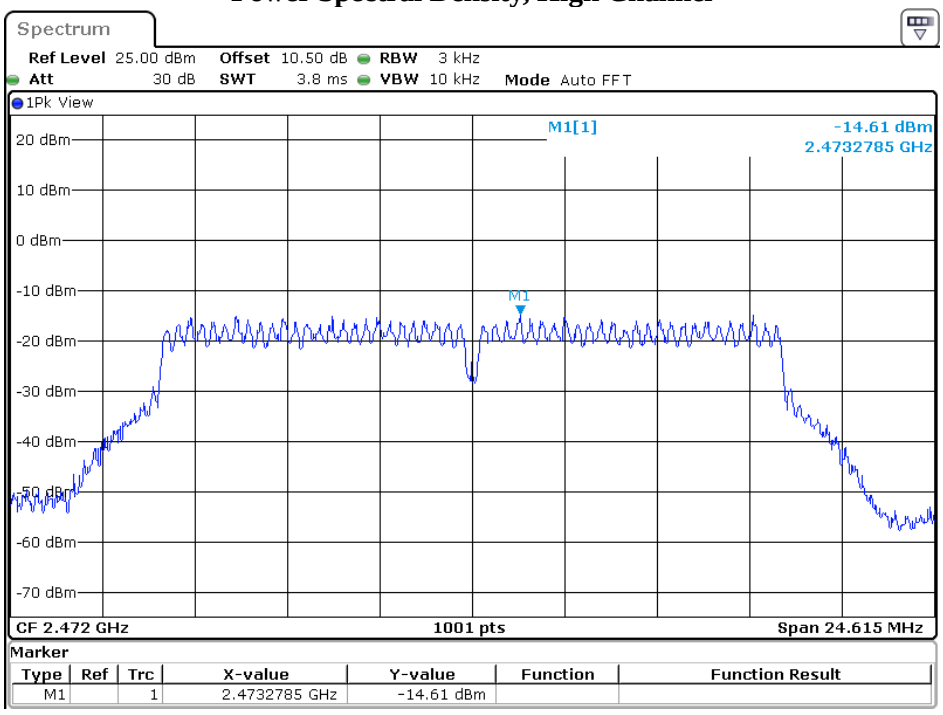
Date: 6.AUG.2022 15:20:59

Power Spectral Density, Middle Channel



Date: 6.AUG.2022 15:26:25

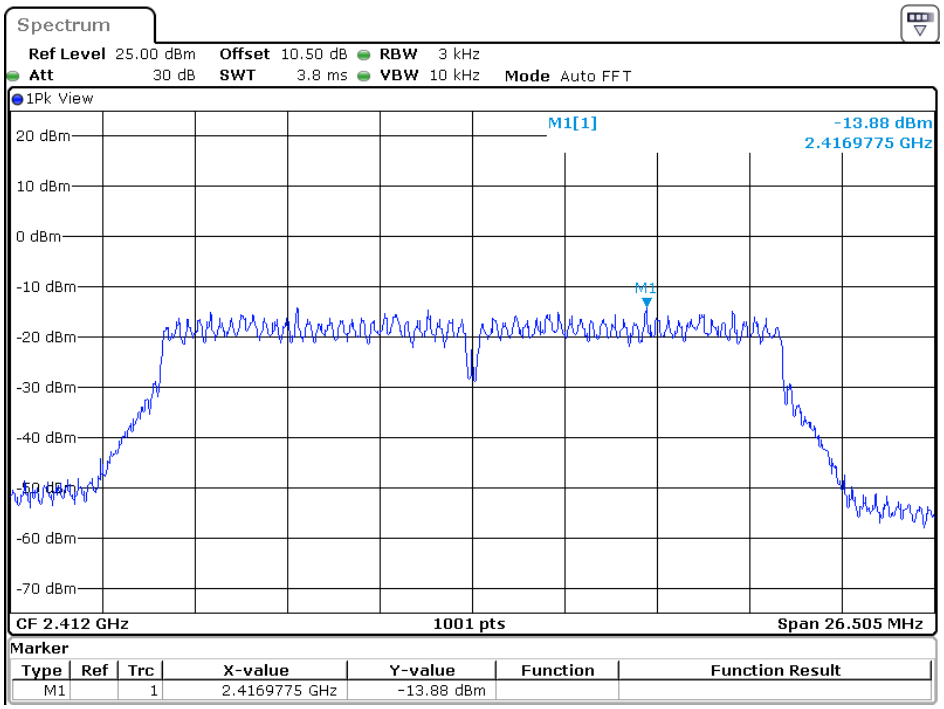
Power Spectral Density, High Channel



Date: 6.AUG.2022 15:31:37

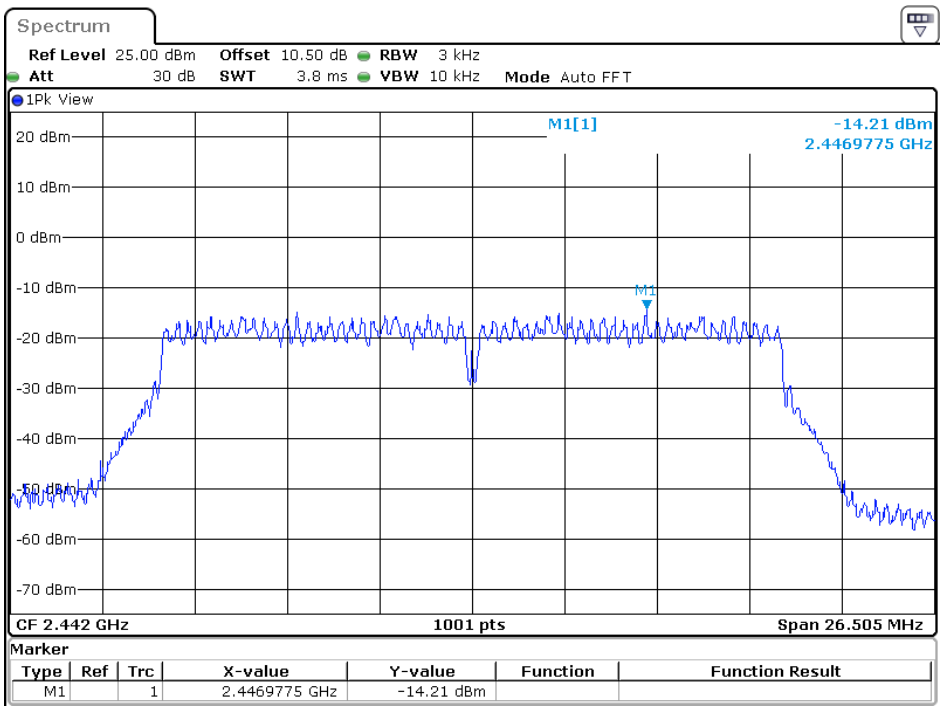
802.11n20 mode:

Power Spectral Density, Low Channel



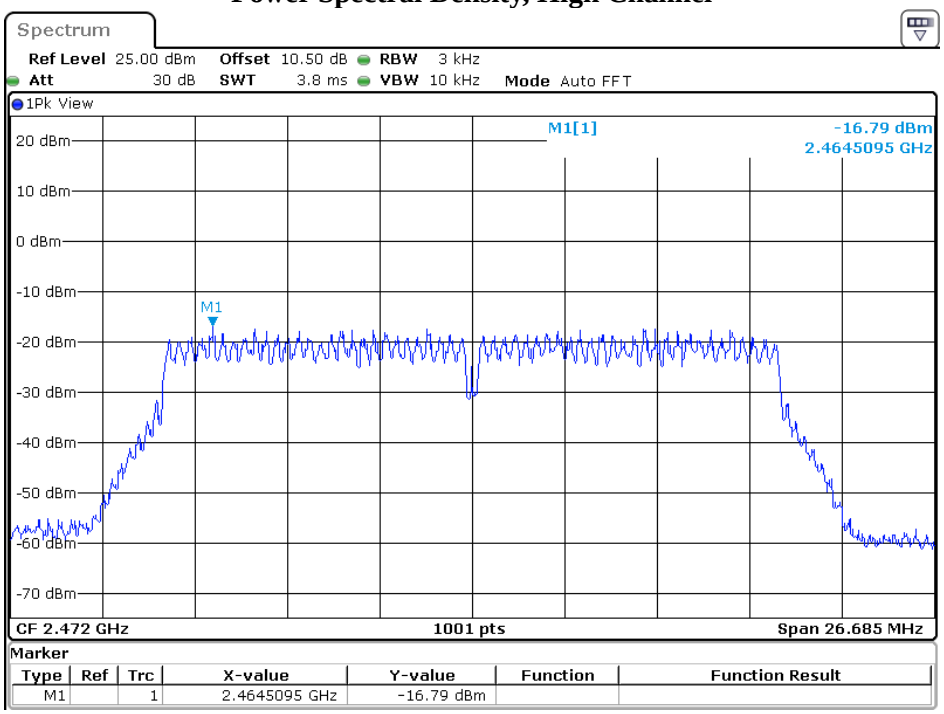
Date: 6.AUG.2022 15:36:49

Power Spectral Density, Middle Channel



Date: 6.AUG.2022 15:42:09

Power Spectral Density, High Channel



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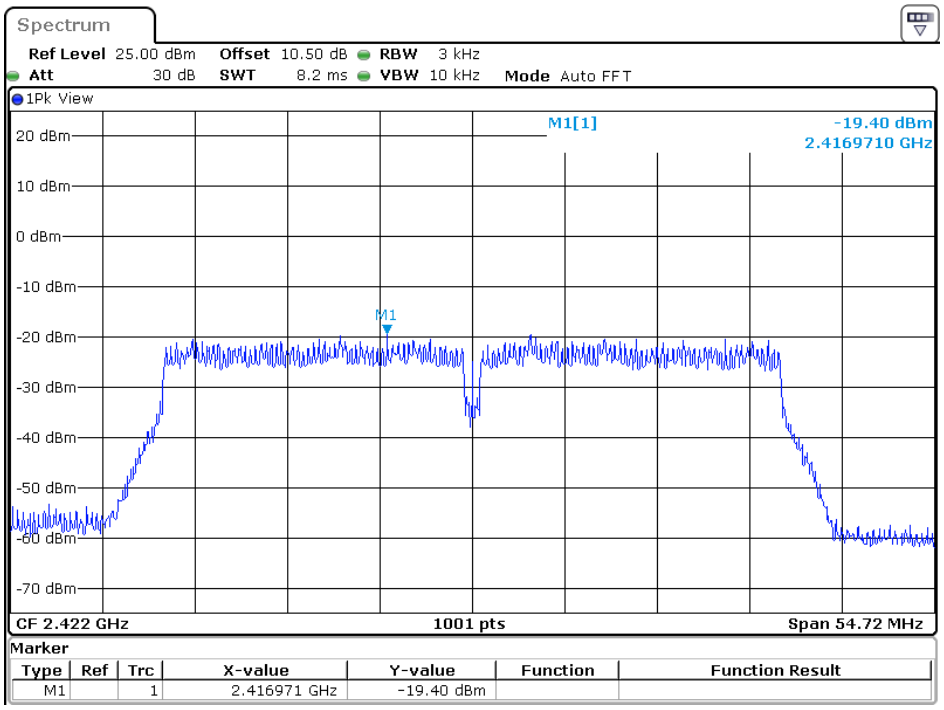
802.11n40 mode:

Power Spectral Density, Low Channel



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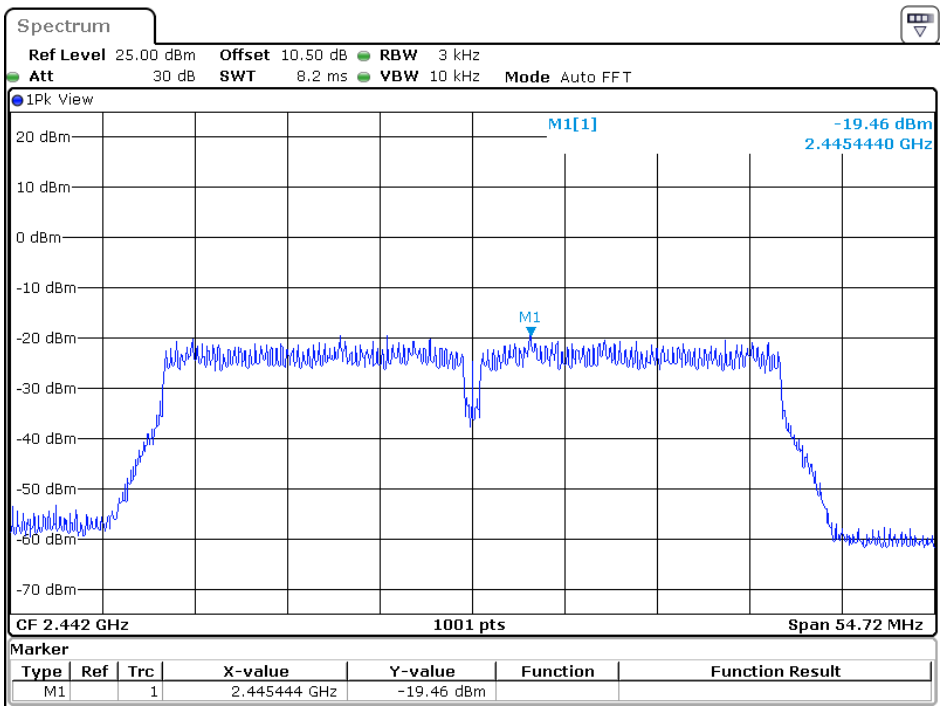
Power Spectral Density, Middle Channel



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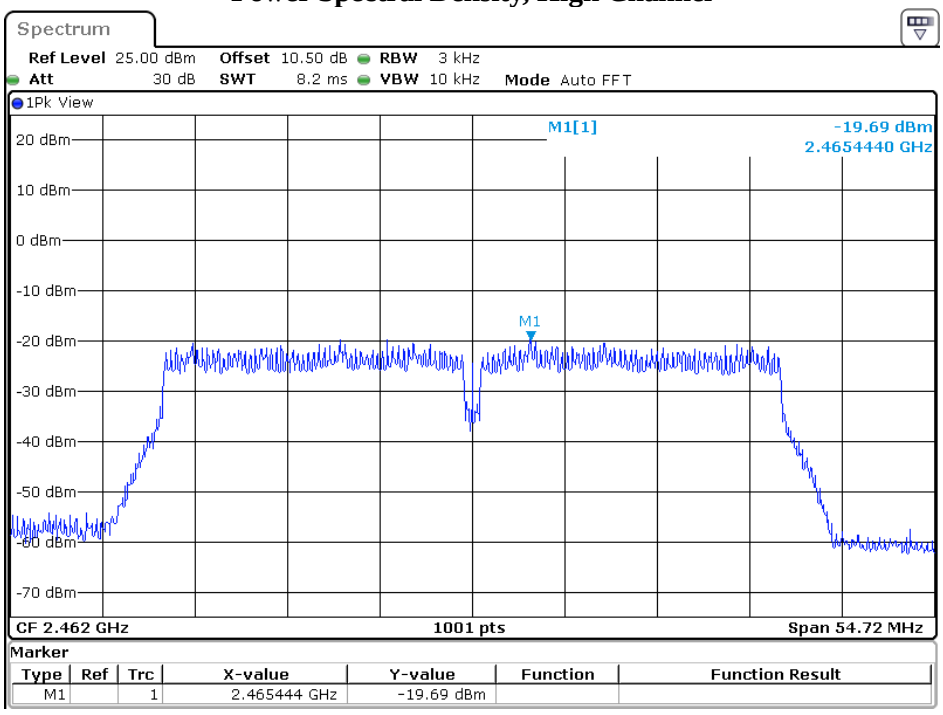
Power Spectral Density, High Channel



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