

FCC Radio Test Report

FCC ID: 2AF82-BXP350

Report No. : BTL-FCCP-3-2408T098
Equipment : Box PC
Model Name : BXP-350
Brand Name : Qbic
Applicant : Qbic Technology Co., Ltd.
Address : 26F.-12, NO.99, SEC. 1, XINTAI 5TH RD., XIZHI DIST., NEW TAIPEI CITY 22175, TAIWAN

Radio Function : WLAN 2.4 GHz

FCC Rule Part(s) : FCC CFR Title 47, Part 15, Subpart C (15.247)
Measurement Procedure(s) : ANSI C63.10-2013

Date of Receipt : 2024/8/21
Date of Test : 2024/9/9 ~ 2024/9/26
Issued Date : 2024/10/8

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by : Brett Shen
 Brett Shen, Engineer

Approved by : Jerry Chuang
 Jerry Chuang, Supervisor



BTL Inc.

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the Customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

CONTENTS

1	SUMMARY OF TEST RESULTS	6
1.1	TEST FACILITY	7
1.2	MEASUREMENT UNCERTAINTY	7
1.3	TEST ENVIRONMENT CONDITIONS	8
1.4	DUTY CYCLE	9
2	GENERAL INFORMATION	10
2.1	DESCRIPTION OF EUT	10
2.2	TEST MODES	12
2.3	BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	13
2.4	SUPPORT UNITS	14
3	AC POWER LINE CONDUCTED EMISSIONS TEST	15
3.1	LIMIT	15
3.2	TEST PROCEDURE	15
3.3	DEVIATION FROM TEST STANDARD	16
3.4	TEST SETUP	16
3.5	TEST RESULT	16
4	RADIATED EMISSIONS TEST	17
4.1	LIMIT	17
4.2	TEST PROCEDURE	18
4.3	DEVIATION FROM TEST STANDARD	18
4.4	TEST SETUP	18
4.5	EUT OPERATING CONDITIONS	19
4.6	TEST RESULT – BELOW 30 MHZ	20
4.7	TEST RESULT – 30 MHZ TO 1 GHZ	20
4.8	TEST RESULT – ABOVE 1 GHZ	20
5	BANDWIDTH TEST	21
5.1	LIMIT	21
5.2	TEST PROCEDURE	21
5.3	DEVIATION FROM TEST STANDARD	21
5.4	TEST SETUP	21
5.5	EUT OPERATING CONDITIONS	21
5.6	TEST RESULT	21
6	OUTPUT POWER TEST	22
6.1	LIMIT	22
6.2	TEST PROCEDURE	22
6.3	DEVIATION FROM TEST STANDARD	22
6.4	TEST SETUP	22
6.5	EUT OPERATING CONDITIONS	22
6.6	TEST RESULT	22
7	POWER SPECTRAL DENSITY	23
7.1	LIMIT	23
7.2	TEST PROCEDURE	23
7.3	DEVIATION FROM TEST STANDARD	23
7.4	TEST SETUP	23
7.5	EUT OPERATING CONDITIONS	23
7.6	TEST RESULT	23
8	ANTENNA CONDUCTED SPURIOUS EMISSIONS TEST	24

8.1	LIMIT	24
8.2	TEST PROCEDURE	24
8.3	DEVIATION FROM TEST STANDARD	24
8.4	TEST SETUP	24
8.5	EUT OPERATING CONDITIONS	24
8.6	TEST RESULT	24
9	LIST OF MEASURING EQUIPMENTS	25
10	EUT TEST PHOTO	27
11	EUT PHOTOS	27
APPENDIX A	AC POWER LINE CONDUCTED EMISSIONS	28
APPENDIX B	RADIATED EMISSIONS - 9 KHZ TO 30 MHZ	33
APPENDIX C	RADIATED EMISSIONS - 30 MHZ TO 1 GHZ	38
APPENDIX D	RADIATED EMISSIONS - ABOVE 1 GHZ	41
APPENDIX E	BANDWIDTH	76
APPENDIX F	OUTPUT POWER	85
APPENDIX G	POWER SPECTRAL DENSITY	90
APPENDIX H	ANTENNA CONDUCTED SPURIOUS EMISSIONS	95

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2408T098	R00	Original Report.	2024/10/8	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	-----
15.205 15.209 15.247(d)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	Pass	-----
15.247(a)	Bandwidth	APPENDIX E	Pass	-----
15.247(b)	Output Power	APPENDIX F	Pass	-----
15.247(e)	Power Spectral Density	APPENDIX G	Pass	-----
15.247(d)	Antenna conducted Spurious Emission	APPENDIX H	Pass	-----
15.203	Antenna Requirement	-----	Pass	-----

Statement of Conformity

The statement of conformity is based on the binary decision rule according to IEC Guide 115 and ILAC G8 "simple acceptance" principle. Without considering measurement uncertainty, its specific risk is less than 50% PFA. (PFA: Probability of False Accept)

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.

1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659.

The test location(s) used to collect the test data in this report are:

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

(FCC DN: TW0030)

☐ C03 ☒ CB18 ☐ CB19

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

(FCC DN: TW0659)

☐ C05 ☐ CB08 ☐ CB11 ☐ SR10 ☒ SR11

No. 68-2, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

(FCC DN: TW0659)

☐ CB12 ☒ SR05

No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

(FCC DN: TW0659)

☐ C06 ☒ CB21 ☐ CB22

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k = 2$, providing a level of confidence of approximately **95 %**.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
SR05	CISPR	150 kHz ~ 30MHz	3.44

B. Radiated emissions test :

Test Site	Measurement Frequency Range	U (dB)
CB21	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72

Test Site	Measurement Frequency Range	U (dB)
CB18	1 GHz ~ 6 GHz	4.62
	1 GHz ~ 6 GHz	4.62
	6 GHz ~ 18 GHz	4.24
	6 GHz ~ 18 GHz	4.06

C. Conducted test :

Test Item	U,(dB)
Occupied Bandwidth	0.5334
Output Power	0.3669
Power Spectral Density	0.6591
Conducted Spurious emissions	0.5416
Conducted Band edges	0.5348

NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

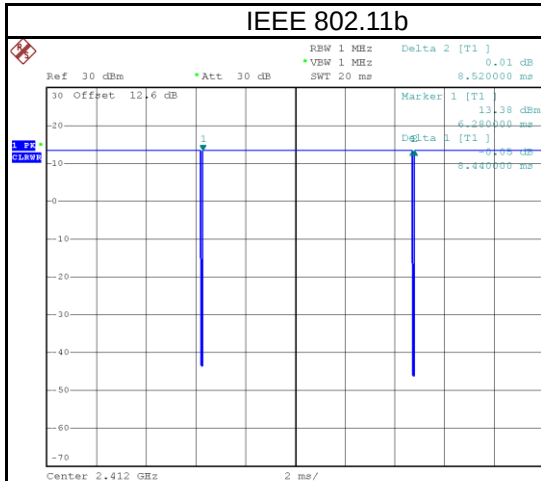
Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	26 °C, 42 %	AC 120V	Ken Lan
Radiated emissions below 1 GHz	Refer to data	AC 120V	Emily Chang
Radiated emissions above 1 GHz	Refer to data	AC 120V	Sean Huang
Bandwidth	26.4 °C, 55 %	AC 120V	Ken Lan
Output Power	25.3 °C, 49 %	AC 120V	Ken Lan
Power Spectral Density	26.4 °C, 55 %	AC 120V	Ken Lan
Antenna conducted Spurious Emission	26.4 °C, 55 %	AC 120V	Ken Lan

1.4 DUTY CYCLE

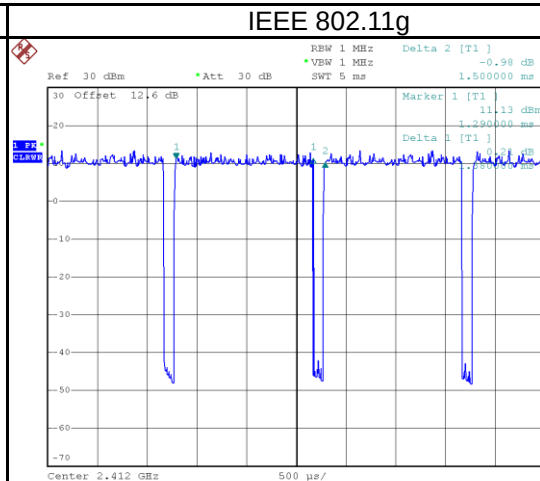
If duty cycle is $\geq 98\%$, duty factor is not required.

If duty cycle is $< 98\%$, duty factor shall be considered.

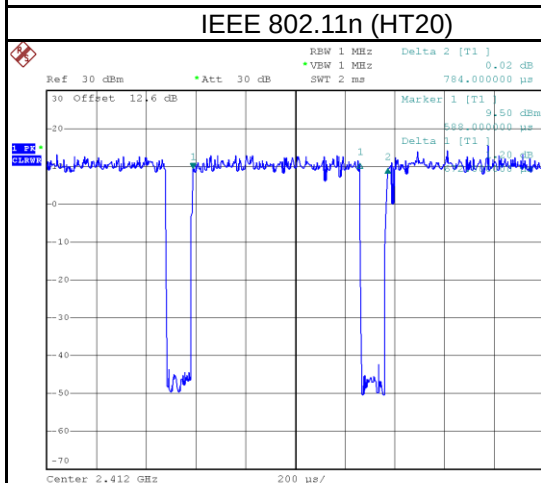
Remark	Delta 1			Delta 2	On Time/Period	10 log(1/Duty Cycle)
Mode	ON (ms)	Numbers (ON)	On Time (B) (ms)	Period (ON+OFF) (ms)	Duty Cycle (%)	Duty Factor (dB)
IEEE 802.11b	8.440	1	8.440	8.520	99.06%	0.04
IEEE 802.11g	1.380	1	1.380	1.500	92.00%	0.36
IEEE 802.11n (HT20)	0.672	1	0.672	0.784	85.71%	0.67
IEEE 802.11ax (HE20)	0.122	1	0.122	0.240	50.83%	2.94



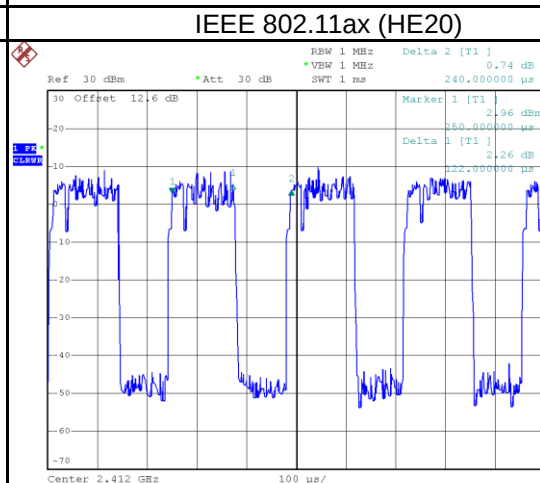
Date: 12.SEP.2024 20:17:44



Date: 12.SEP.2024 20:18:44



Date: 12.SEP.2024 20:19:39



Date: 12.SEP.2024 20:20:39

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Box PC
Model Name	BXP-350
Brand Name	Qbic
Model Difference	N/A
Power Source	DC Voltage supplied from AC/DC adapter.
Power Rating	EUT: DC 12V, 2.5A For Adapter I/P: 100-240V~, 50-60Hz, 0.9A Max O/P: DC 12.0V, 2.5A 30.0W
Products Covered	1 * Adapter: APD / WA-30P12R
Operation Band	2400 MHz ~ 2483.5 MHz
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Technology	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE 802.11ax: OFDMA
Transfer Rate	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ax: up to 866.7 Mbps
Maximum Output Power	IEEE 802.11b: 25.24 dBm (0.3342 W) IEEE 802.11g: 27.34 dBm (0.5425 W) IEEE 802.11n (HT20): 27.42 dBm (0.5527 W) IEEE 802.11ax (HE20): 26.94 dBm (0.4940 W)
Test Software Version	ADB
Test Model	BXP-350
Sample Status	Engineering Sample
EUT Modification(s)	N/A

NOTE:

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

(3) Table for Filed Antenna:

Antenna	Manufacture	Model name	Type	Connector	Frequency Range (MHz)	Gain (dBi)
1	Joymax	TWX-100BRS3B-1242	Dipole	RP SMA Plug	2400-2500	2.08
					5150-5250	4.05
					5250-5350	3.94
					5850	4.11
2	Joymax	TWX-100BRS3B-1242	Dipole	RP SMA Plug	2400-2500	2.08
					5150-5250	4.05
					5250-5350	3.94
					5850	4.11

NOTE:

- The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R).
- The Directional Gain = $G_{ANT} + 10 \log(N_{ANT}) \text{dBi} = 2.08 + 10 \log(2) \text{dBi} = 5.09 \text{ dBi} < 6 \text{ dBi}$. Thus, the limits of Power Spectral Density and Output Power should not be reduced.

- The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

(5) Operating Mode and Antenna Configuration

Operating Mode	TX Mode	2TX
IEEE 802.11b		V (Antenna 1+Antenna 2)
IEEE 802.11g		V (Antenna 1+Antenna 2)
IEEE 802.11n (HT20)		V (Antenna 1+Antenna 2)
IEEE 802.11ax (HE20)		V (Antenna 1+Antenna 2)

2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Transmitter Radiated Emissions (below 1GHz)	IEEE 802.11b	01	-
Transmitter Radiated Emissions (above 1GHz)	IEEE 802.11b	01/11	Bandedge
	IEEE 802.11g		
	IEEE 802.11n (HT20)		
	IEEE 802.11ax (HE20)		
Transmitter Radiated Emissions (above 1GHz)	IEEE 802.11b	01/07/11	Harmonic
	IEEE 802.11g		
	IEEE 802.11n (HT20)		
	IEEE 802.11ax (HE20)		
Bandwidth & Output Power & Power Spectral Density & Antenna conducted Spurious Emission	IEEE 802.11b	01/07/11	-
	IEEE 802.11g		
	IEEE 802.11n (HT20)		
	IEEE 802.11ax (HE20)		

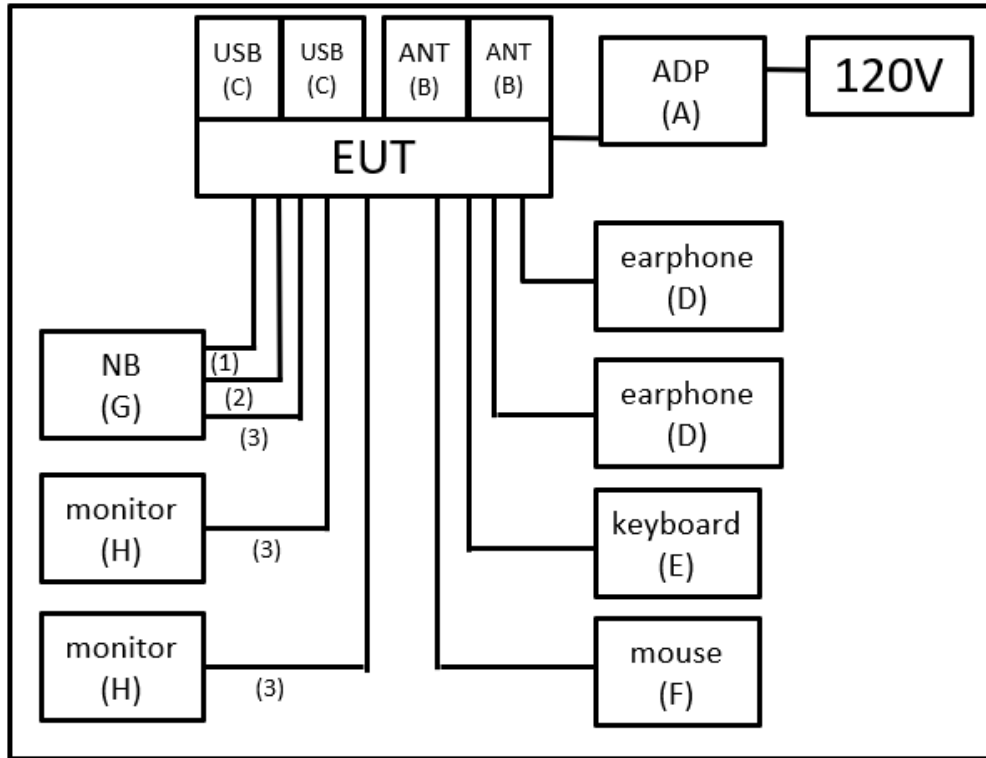
NOTE:

- (1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Horizontal) is recorded.
- (2) All X, Y and Z axes are evaluated, but only the worst case (Y axis) is recorded.
- (3) For IEEE 802.11ax modes, refer to TCB Workshop presentations on October 3, 2018, after evaluated, all testing are performed under fully loaded conditions (Full RU). In the test data, only the partially loaded conditions data are marked with tones.

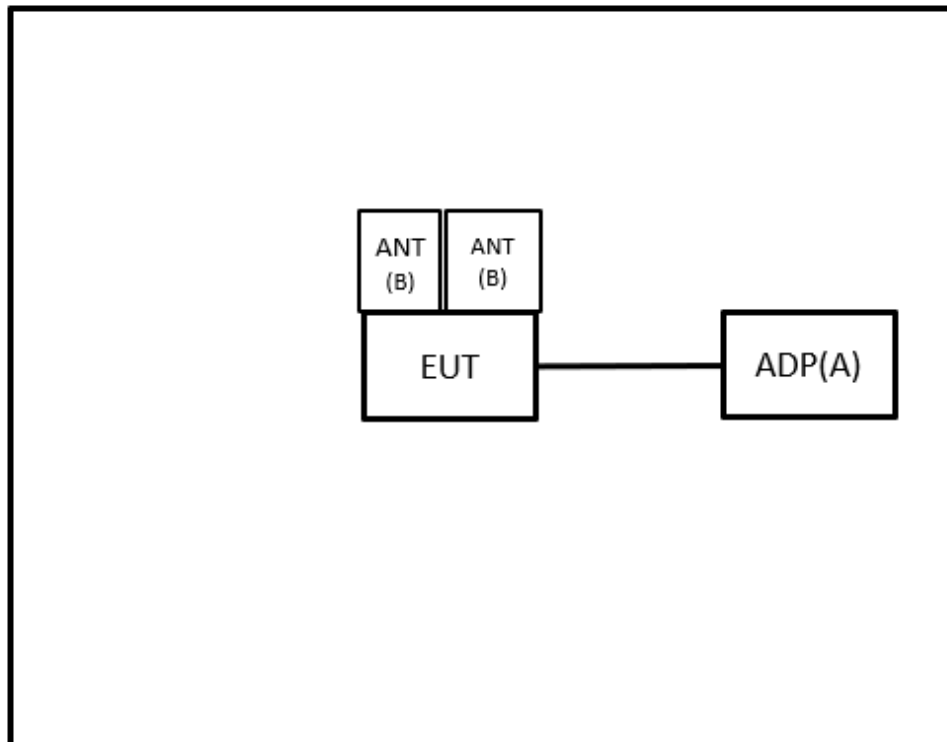
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

AC Power Line Conducted Emissions Test



Radiated Emissions Test



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	ADP	WA-30P12R	N/A	N/A	Supplied by test requester
B	ANT	N/A	N/A	N/A	Supplied by test requester
C	USB	N/A	N/A	N/A	Furnished by test lab.
D	Earphone	N/A	N/A	N/A	Furnished by test lab.
E	Keyboard	N/A	N/A	N/A	Furnished by test lab.
F	Mouse	N/A	N/A	N/A	Furnished by test lab.
G	NB	N/A	N/A	N/A	Furnished by test lab.
H	Monitor	N/A	N/A	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	0.7m	Lan	Furnished by test lab.
2	N/A	N/A	0.7m	Type-C	Furnished by test lab.
3	N/A	N/A	2m	HDMI	Furnished by test lab.

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)

Margin Level = Measurement Value – Limit Value

Calculation example:

Reading Level (dBμV)		Correct Factor (dB)		Measurement Value (dBμV)
38.22	+	3.45	=	41.67

Measurement Value (dBμV)		Limit Value (dBμV)		Margin Level (dB)
41.67	-	60	=	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
All other support equipment were powered from an additional LISN(s).
The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
The end of the cable will be terminated, using the correct terminating impedance.
The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item - EUT TEST PHOTO.

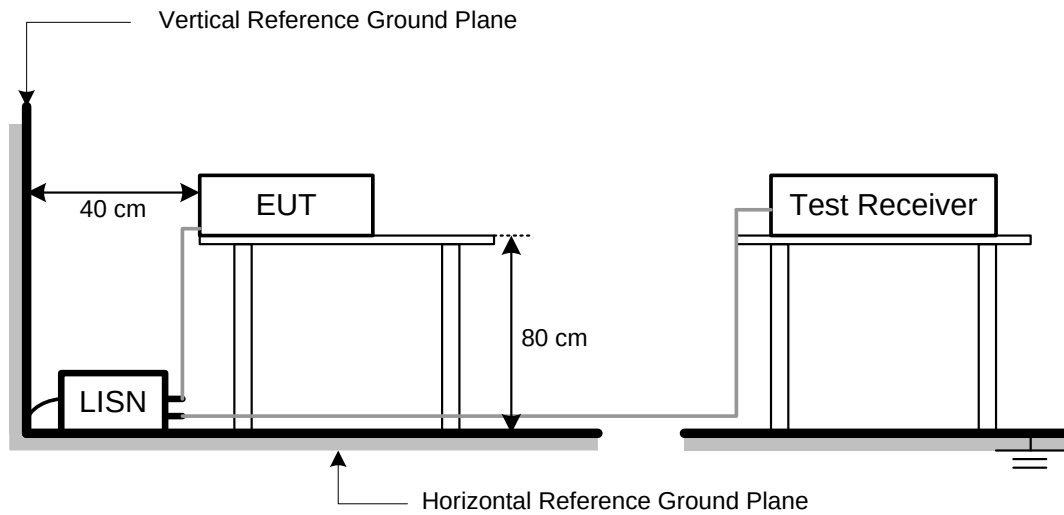
NOTE:

- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used.
BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.

4 RADIATED EMISSIONS TEST

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205, then the 15.209 limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF RADIATED EMISSIONS MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Radiated Emissions (dBuV/m)		Measurement Distance (meters)
	Peak	Average	
Above 1000	74	54	3

NOTE:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level (dBuV)		Correct Factor (dB/m)		Measurement Value (dBuV/m)
41.91	+	-8.36	=	33.55

Measurement Value (dBuV/m)		Limit Value (dBuV/m)		Margin Level (dB)
33.55	-	43.50	=	-9.95

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average

Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

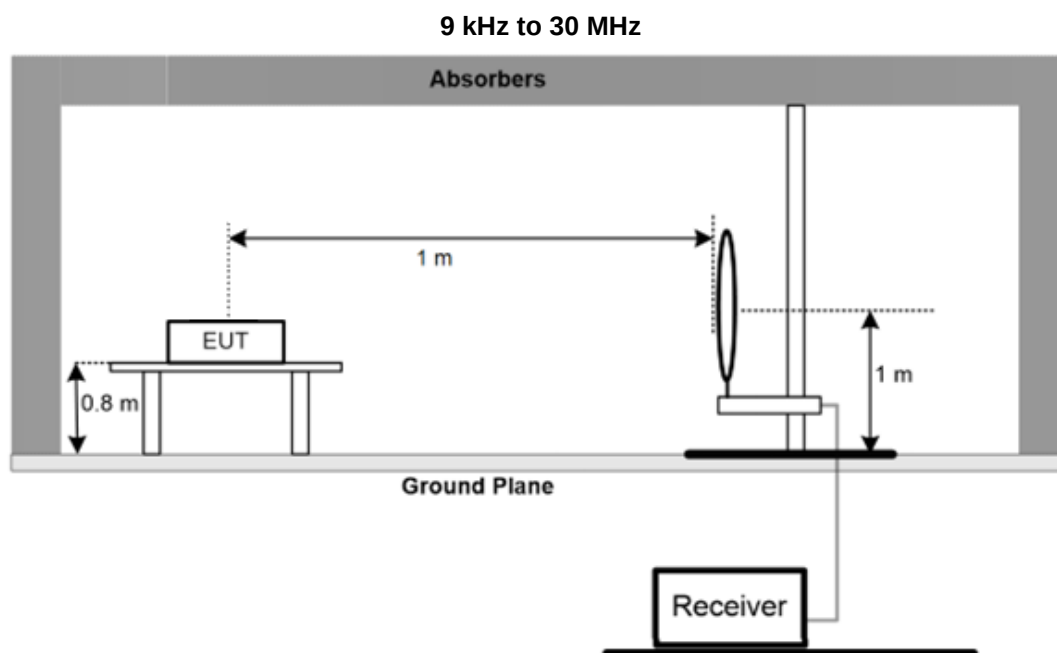
4.2 TEST PROCEDURE

- The measuring distance of 1 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 30MHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

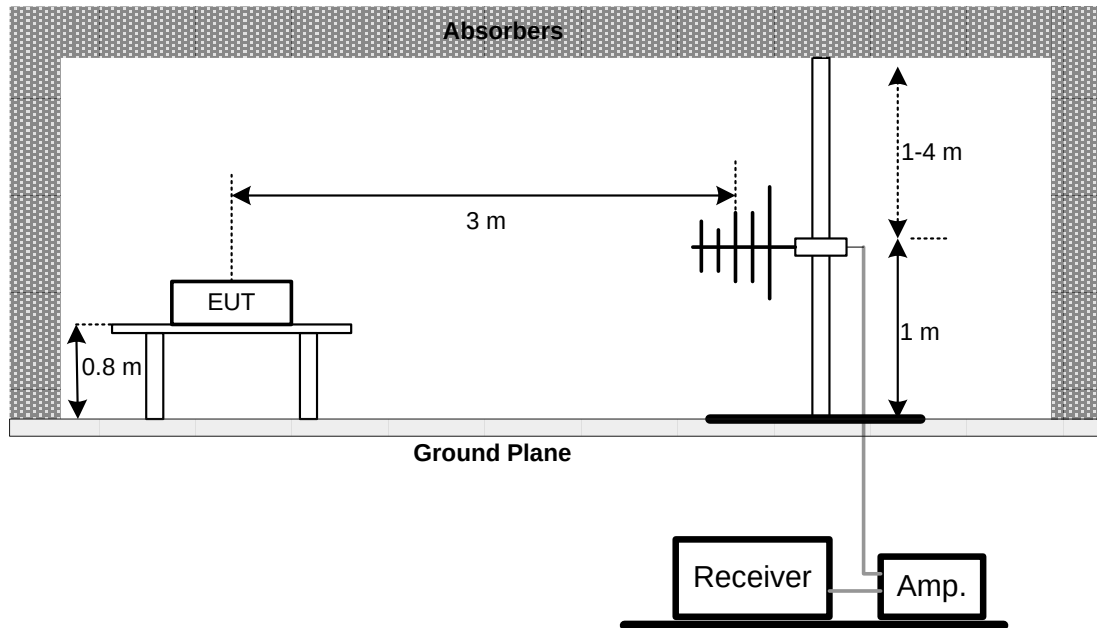
4.3 DEVIATION FROM TEST STANDARD

No deviation.

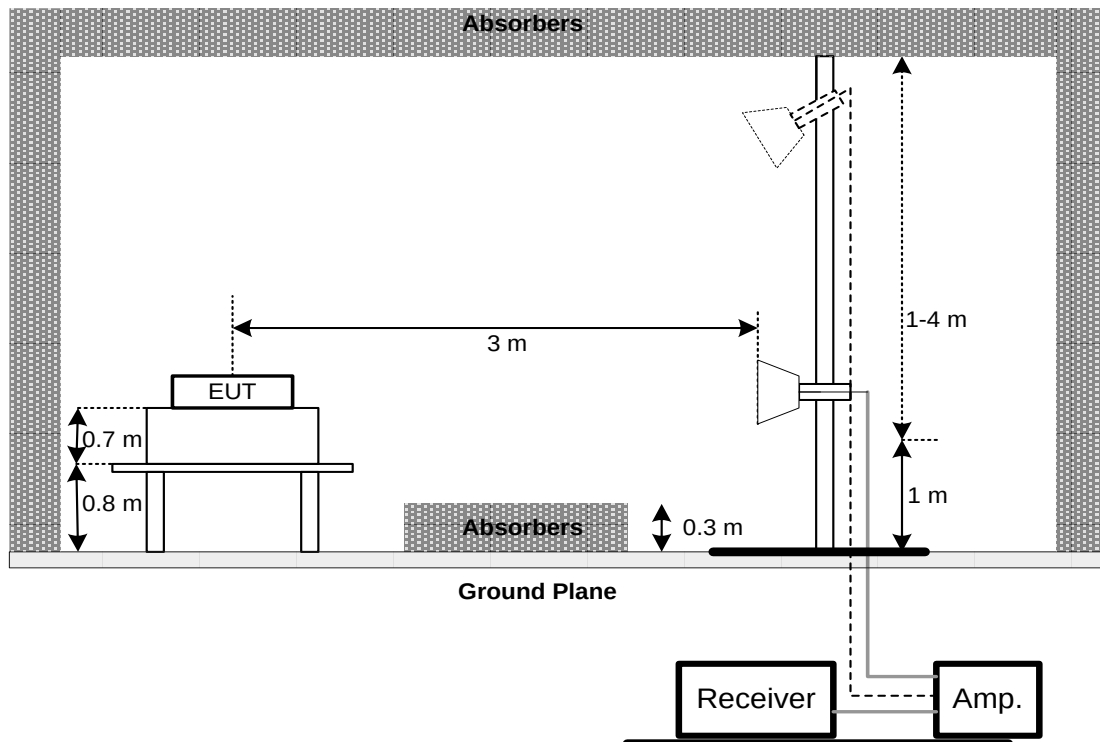
4.4 TEST SETUP



30 MHz to 1 GHz



Above 1 GHz



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT – BELOW 30 MHZ

Please refer to the APPENDIX B.

4.7 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX C.

4.8 TEST RESULT – ABOVE 1 GHZ

Please refer to the APPENDIX D.

NOTE:

- (1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5 BANDWIDTH TEST

5.1 LIMIT

Section	Test Item	Limit
15.247(a)	6 dB Bandwidth	500 kHz

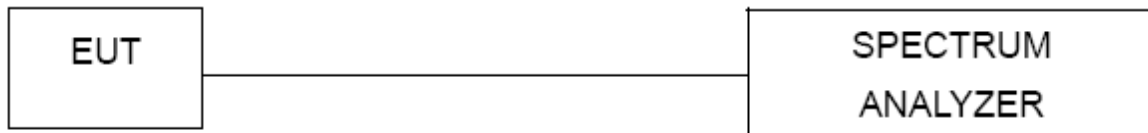
5.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT

Please refer to the APPENDIX E.

6 OUTPUT POWER TEST

6.1 LIMIT

Section	Test Item	Limit
15.247(b)	Maximum Output Power	1 Watt or 30dBm

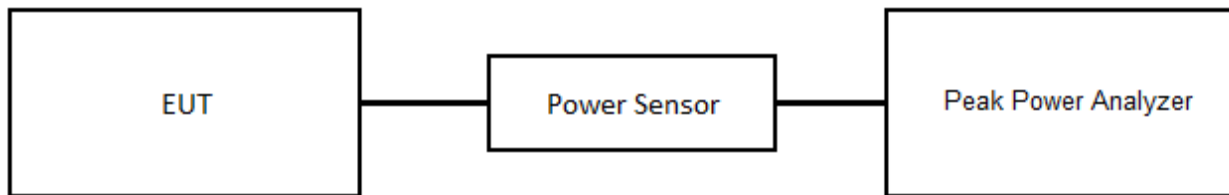
6.2 TEST PROCEDURE

- The EUT was directly connected to the Peak Power Analyzer and antenna output port as show in the block diagram below.
- The maximum peak conducted output power was performed in accordance with FCC KDB 558074 D01 15.247 Meas Guidance.
- Subclause 11.9.1.1 of ANSI C63.10 is applied. The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

6.3 DEVIATION FROM TEST STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULT

Please refer to the APPENDIX F.

7 POWER SPECTRAL DENSITY

7.1 LIMIT

Section	Test Item	Limit
15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

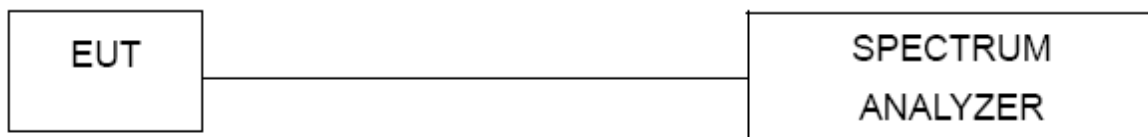
7.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW = 3 kHz, VBW = 10 kHz, Sweep time = Auto.

7.3 DEVIATION FROM TEST STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULT

Please refer to the APPENDIX G.

8 ANTENNA CONDUCTED SPURIOUS EMISSIONS TEST

8.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits.

8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW = 100 kHz, VBW=300 kHz, Sweep time = Auto.
- Offset = antenna gain + cable loss.

8.3 DEVIATION FROM TEST STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULT

Please refer to the APPENDIX H.

9 LIST OF MEASURING EQUIPMENTS

AC Power Line Conducted Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101497	2024/5/20	2025/5/19
2	Test Cable	EMCI	EMC400-BM-BM-5000	170501	2024/7/31	2025/7/30
3	EMI Test Receiver	R&S	ESR3	102950	2024/4/12	2025/4/11
4	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC330N	980850	2024/9/5	2025/9/4
2	Preamplifier	EMCI	EMC001340	980579	2024/9/4	2025/9/3
3	Test Cable	EMCI	EMC104-SM-1000	180809	2024/3/8	2025/3/7
4	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2024/3/8	2025/3/7
5	Test Cable	EMCI	EMC104-SM-SM-7000	220324	2024/3/8	2025/3/7
6	EXA Signal Analyzer	keysight	N9020B	MY57120120	2024/2/23	2025/2/22
7	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2024/9/9	2025/9/8
8	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2024/6/14	2025/6/13
9	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2024/6/14	2025/6/13
10	Preamplifier	EMCI	EMC12630SE	980577	2023/9/20	2024/9/19
11	Pre-Amplifier	EMCI	EMC012645SE	980410	2023/9/20	2024/9/19
12	Test Cable	EMCI	EMC104-SM-SM-1500	210630	2023/9/20	2024/9/19
13	Test Cable	EMCI	EMC104-SM-SM-3000	170204	2023/9/20	2024/9/19
14	Test Cable	EMCI	EMC104-SM-SM-7000	240110	2024/1/30	2025/1/29
15	EXA Signal Analyzer	keysight	N9020B	MY60112534	2024/5/2	2025/5/1
16	Horn Antenna	RFSPIN	BBHA-9120D	9120D-1297	2023/11/21	2024/11/20
17	Horn Ant	Broad-Band Horn	BBHA 9170	764	2024/7/4	2025/7/3
18	Test Cable	EMCI	EMC120-KM-KM-3300	181204	2023/9/19	2024/9/18
19	Test Cable	EMCI	EMC120-KM-KM-1000	150805	2023/9/19	2024/9/18
20	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A

Bandwidth						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2024/3/27	2025/3/26

Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Peak Power Analyzer	Keysight	8990B	MY51000517	2024/3/12	2025/3/11
2	Power Sensor	Keysight	N1923A	MY58310005	2024/3/12	2025/3/11

Power Spectral Density						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2024/3/27	2025/3/26

Antenna conducted Spurious Emission						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2024/3/27	2025/3/26

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.

10 EUT TEST PHOTO

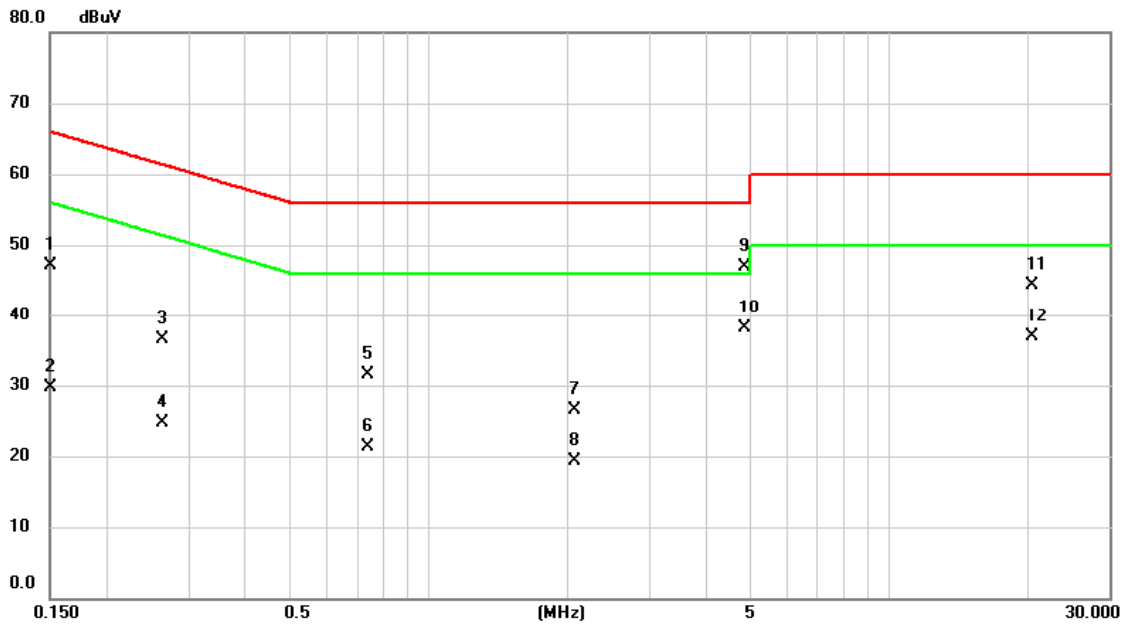
Please refer to document Appendix No.: TP-2408T098-FCCP-1 (APPENDIX-TEST PHOTOS).

11 EUT PHOTOS

Please refer to document Appendix No.: EP-2408T098-1 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2024/9/13
Test Frequency	-	Phase	Line



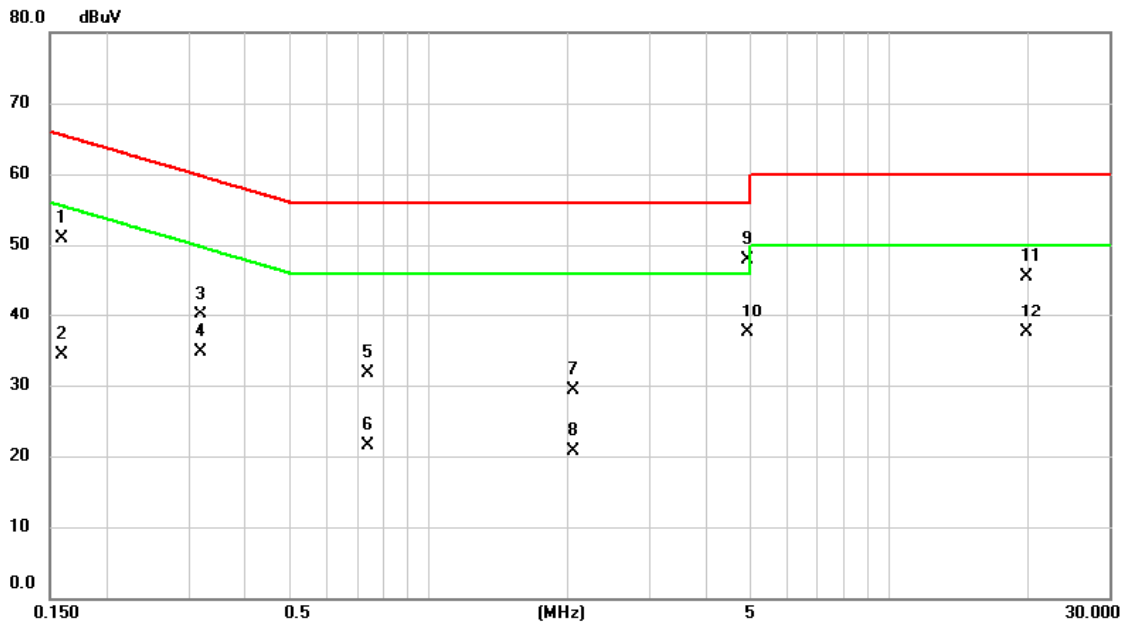
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	37.53	9.58	47.11	66.00	-18.89	QP	
2		0.1500	20.17	9.58	29.75	56.00	-26.25	AVG	
3		0.2624	26.92	9.59	36.51	61.36	-24.85	QP	
4		0.2624	15.16	9.59	24.75	51.36	-26.61	AVG	
5		0.7394	21.82	9.60	31.42	56.00	-24.58	QP	
6		0.7394	11.79	9.60	21.39	46.00	-24.61	AVG	
7		2.0691	16.87	9.64	26.51	56.00	-29.49	QP	
8		2.0691	9.71	9.64	19.35	46.00	-26.65	AVG	
9		4.8795	37.16	9.78	46.94	56.00	-9.06	QP	
10	*	4.8795	28.33	9.78	38.11	46.00	-7.89	AVG	
11		20.3550	34.13	10.23	44.36	60.00	-15.64	QP	
12		20.3550	26.73	10.23	36.96	50.00	-13.04	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	Normal	Tested Date	2024/9/13
Test Frequency	-	Phase	Neutral



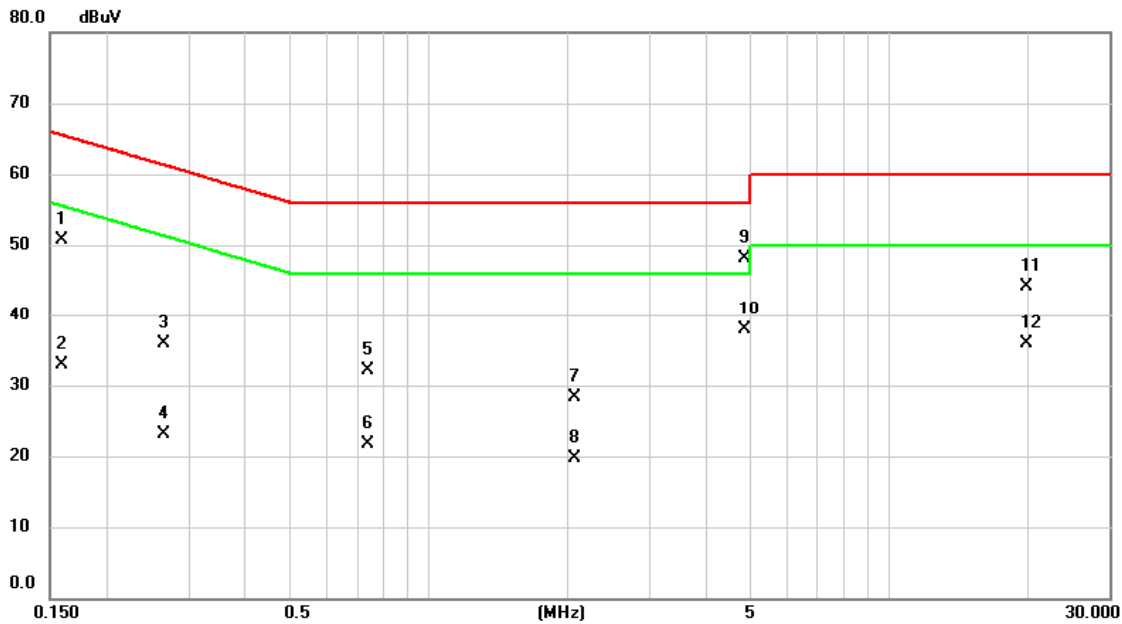
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1590	41.42	9.57	50.99	65.52	-14.53	QP	
2		0.1590	24.81	9.57	34.38	55.52	-21.14	AVG	
3		0.3187	30.45	9.58	40.03	59.74	-19.71	QP	
4		0.3187	25.03	9.58	34.61	49.74	-15.13	AVG	
5		0.7395	22.03	9.60	31.63	56.00	-24.37	QP	
6		0.7395	11.86	9.60	21.46	46.00	-24.54	AVG	
7		2.0558	19.62	9.65	29.27	56.00	-26.73	QP	
8		2.0558	10.97	9.65	20.62	46.00	-25.38	AVG	
9	*	4.9470	38.17	9.81	47.98	56.00	-8.02	QP	
10		4.9470	27.79	9.81	37.60	46.00	-8.40	AVG	
11		19.8443	35.03	10.41	45.44	60.00	-14.56	QP	
12		19.8443	27.16	10.41	37.57	50.00	-12.43	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	Idle	Tested Date	2024/9/13
Test Frequency	-	Phase	Line



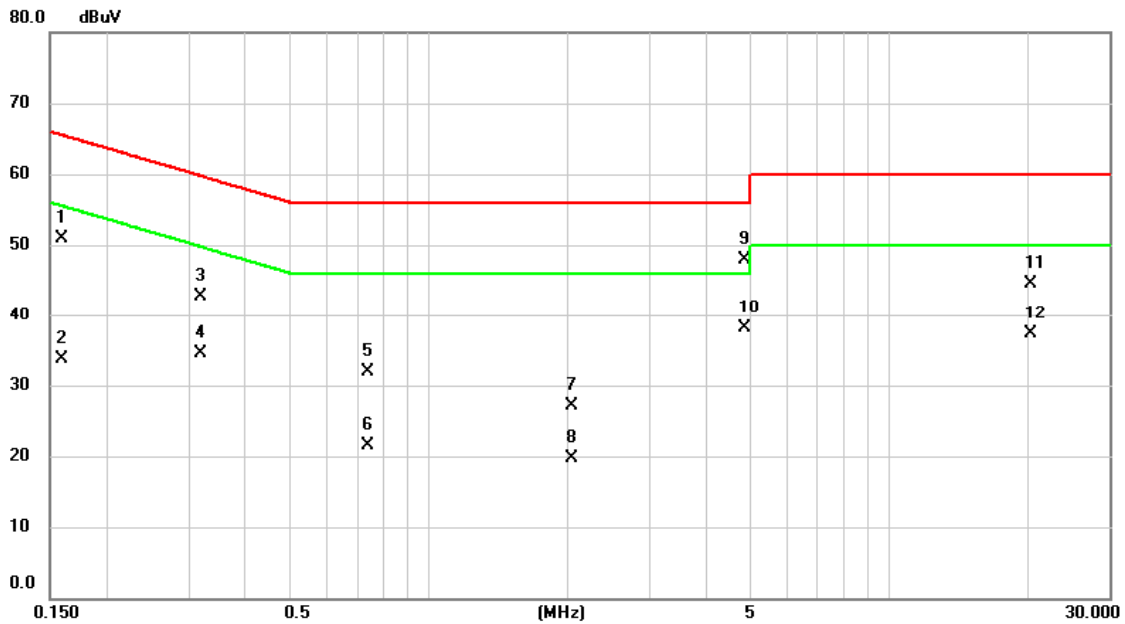
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1590	41.16	9.59	50.75	65.52	-14.77	QP	
2		0.1590	23.29	9.59	32.88	55.52	-22.64	AVG	
3		0.2647	26.25	9.59	35.84	61.28	-25.44	QP	
4		0.2647	13.42	9.59	23.01	51.28	-28.27	AVG	
5		0.7395	22.50	9.60	32.10	56.00	-23.90	QP	
6		0.7395	12.15	9.60	21.75	46.00	-24.25	AVG	
7		2.0625	18.68	9.64	28.32	56.00	-27.68	QP	
8		2.0625	9.97	9.64	19.61	46.00	-26.39	AVG	
9	*	4.8773	38.40	9.78	48.18	56.00	-7.82	QP	
10		4.8773	28.09	9.78	37.87	46.00	-8.13	AVG	
11		19.8420	33.89	10.23	44.12	60.00	-15.88	QP	
12		19.8420	25.76	10.23	35.99	50.00	-14.01	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	Idle	Tested Date	2024/9/13
Test Frequency	-	Phase	Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1590	41.27	9.57	50.84	65.52	-14.68	QP	
2		0.1590	24.23	9.57	33.80	55.52	-21.72	AVG	
3		0.3187	33.07	9.58	42.65	59.74	-17.09	QP	
4		0.3187	25.01	9.58	34.59	49.74	-15.15	AVG	
5		0.7395	22.23	9.60	31.83	56.00	-24.17	QP	
6		0.7395	11.89	9.60	21.49	46.00	-24.51	AVG	
7		2.0378	17.48	9.65	27.13	56.00	-28.87	QP	
8		2.0378	10.12	9.65	19.77	46.00	-26.23	AVG	
9		4.8795	38.17	9.81	47.98	56.00	-8.02	QP	
10	*	4.8795	28.26	9.81	38.07	46.00	-7.93	AVG	
11		20.3145	34.14	10.41	44.55	60.00	-15.45	QP	
12		20.3145	26.98	10.41	37.39	50.00	-12.61	AVG	

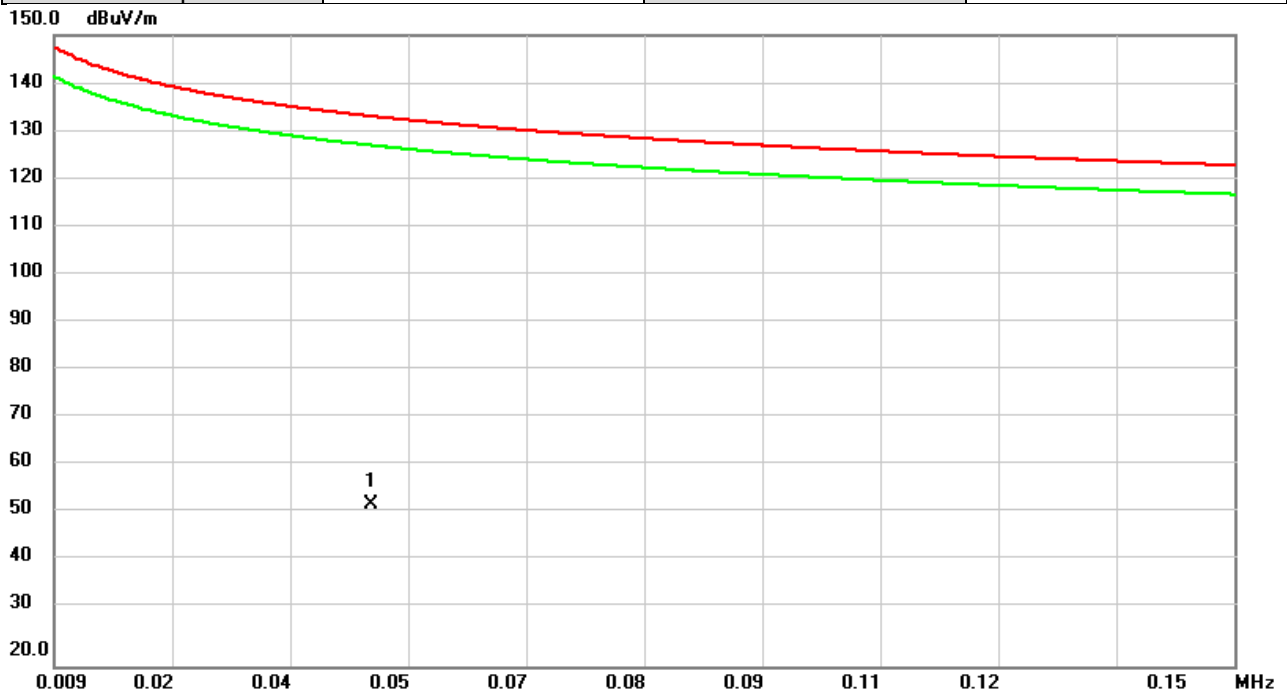
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

APPENDIX B RADIATED EMISSIONS - 9 KHZ TO 30 MHZ

Test Mode	IEEE 802.11b	Test Date	2024/9/26
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

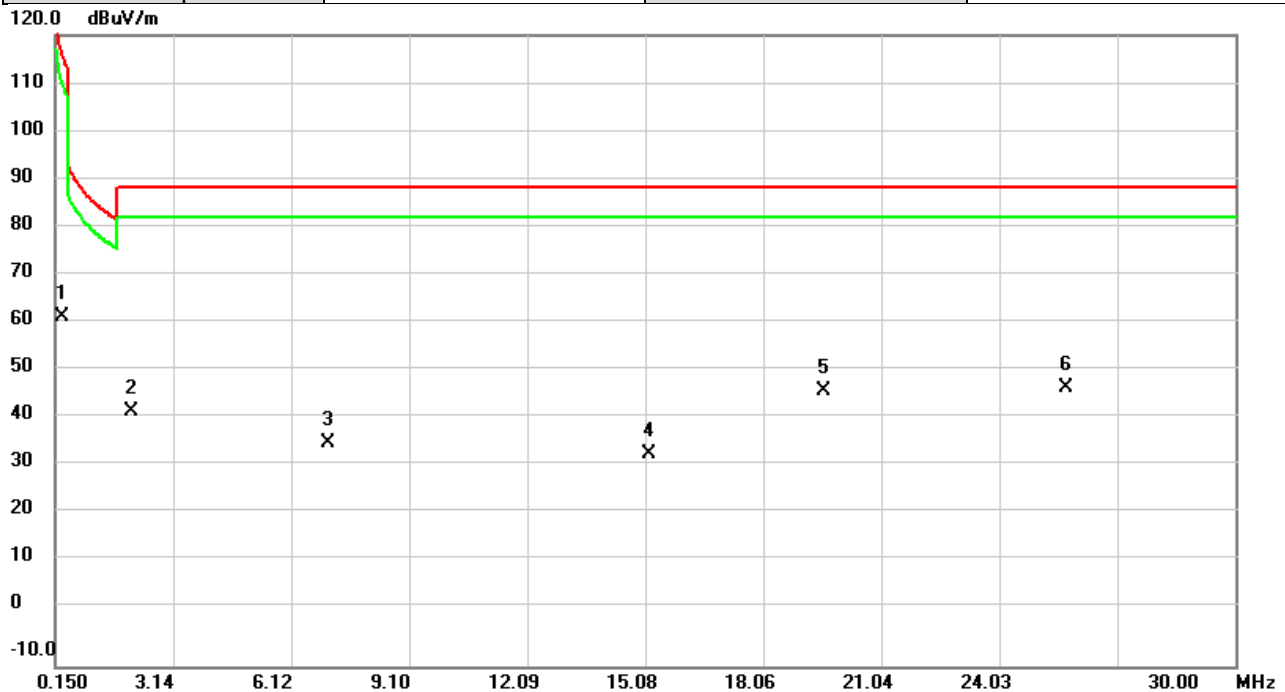


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0468	29.29	24.08	53.37	133.28	-79.91	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11b	Test Date	2024/9/26
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

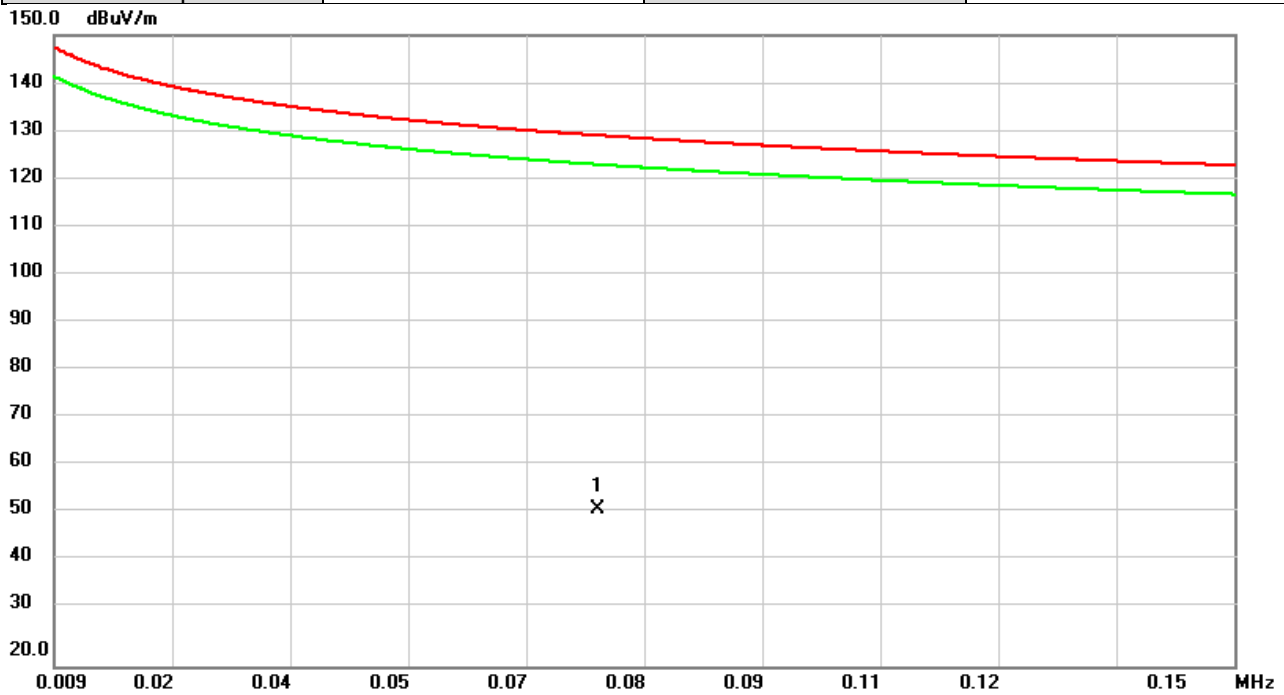


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.3420	55.28	6.83	62.11	116.00	-53.89	AVG	
2		2.0941	44.29	-1.96	42.33	88.62	-46.29	QP	
3		7.0651	39.73	-3.83	35.90	88.62	-52.72	QP	
4		15.1735	37.33	-3.51	33.82	88.62	-54.80	QP	
5		19.6070	50.54	-3.93	46.61	88.62	-42.01	QP	
6	*	25.7224	50.36	-2.86	47.50	88.62	-41.12	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11b	Test Date	2024/9/26
Test Frequency	2412MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%

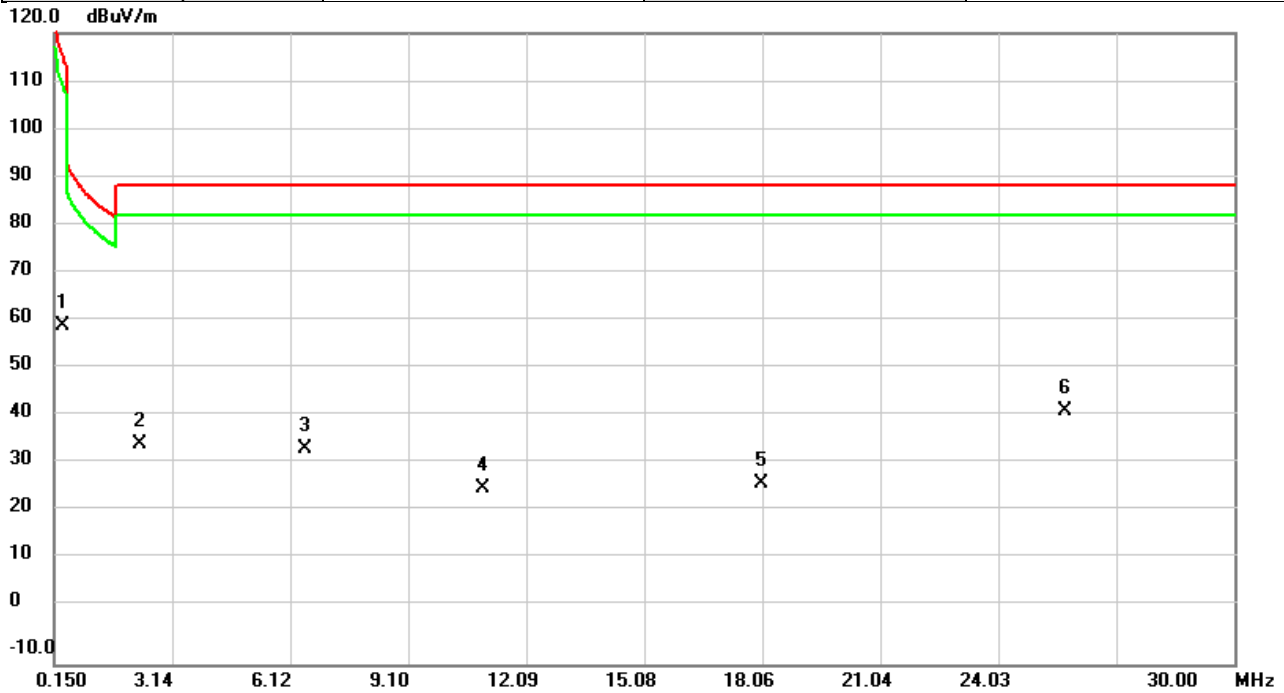


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0740	32.31	19.91	52.22	129.30	-77.08	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11b	Test Date	2024/9/26
Test Frequency	2412MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%



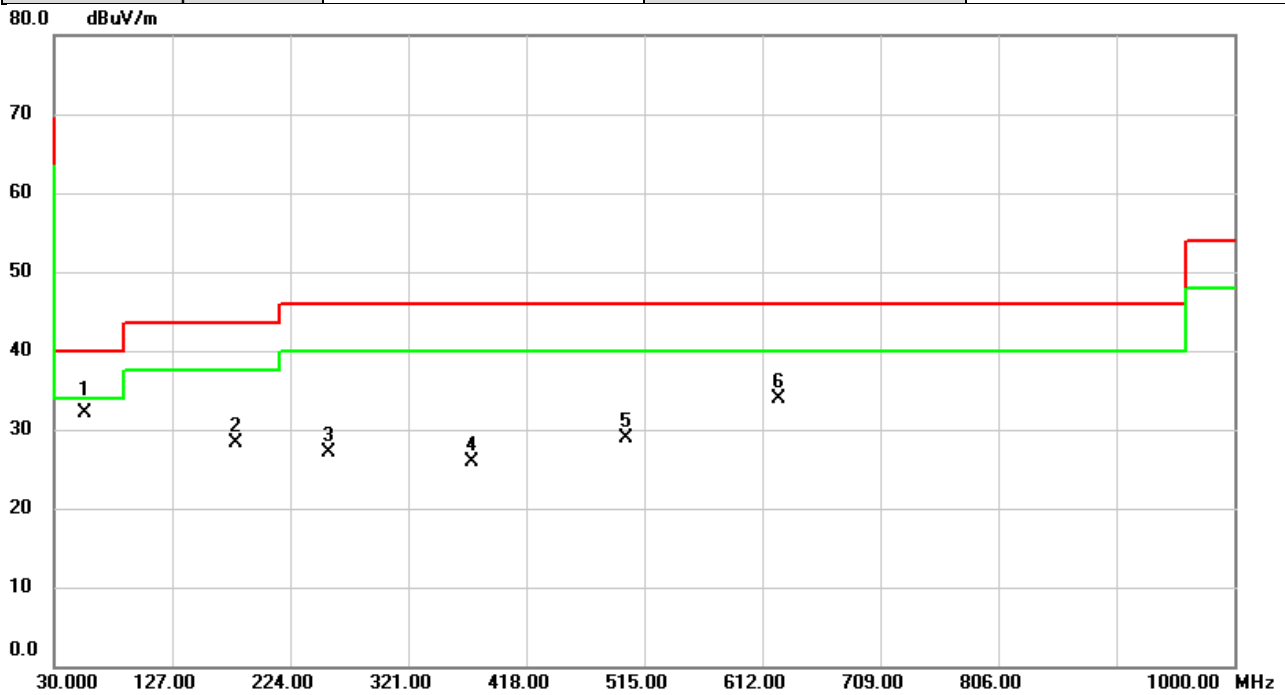
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.3530	53.00	6.64	59.64	115.73	-56.09	AVG	
2		2.3131	37.67	-2.39	35.28	88.62	-53.34	QP	
3		6.4881	38.28	-3.98	34.30	88.62	-54.32	QP	
4		10.9925	29.50	-3.11	26.39	88.62	-62.23	QP	
5		18.0480	30.90	-3.78	27.12	88.62	-61.50	QP	
6	*	25.7065	44.97	-2.87	42.10	88.62	-46.52	QP	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX C RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

Test Mode	IEEE 802.11b	Test Date	2024/9/26
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

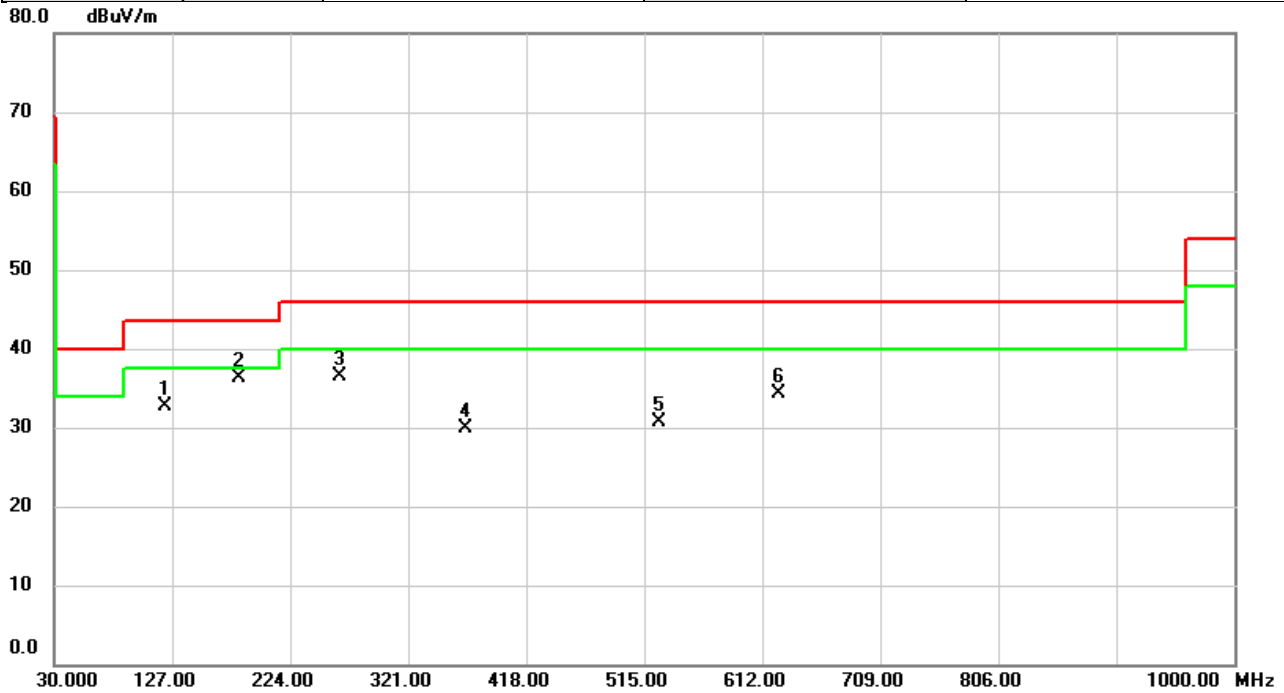


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	55.7050	44.19	-11.99	32.20	40.00	-7.80	QP	
2		179.5417	41.81	-13.44	28.37	43.50	-15.13	peak	
3		256.3333	40.17	-13.09	27.08	46.00	-18.92	peak	
4		373.5740	35.61	-9.71	25.90	46.00	-20.10	peak	
5		499.9973	35.63	-6.66	28.97	46.00	-17.03	peak	
6		624.9980	37.80	-3.83	33.97	46.00	-12.03	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11b	Test Date	2024/9/26
Test Frequency	2412MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%



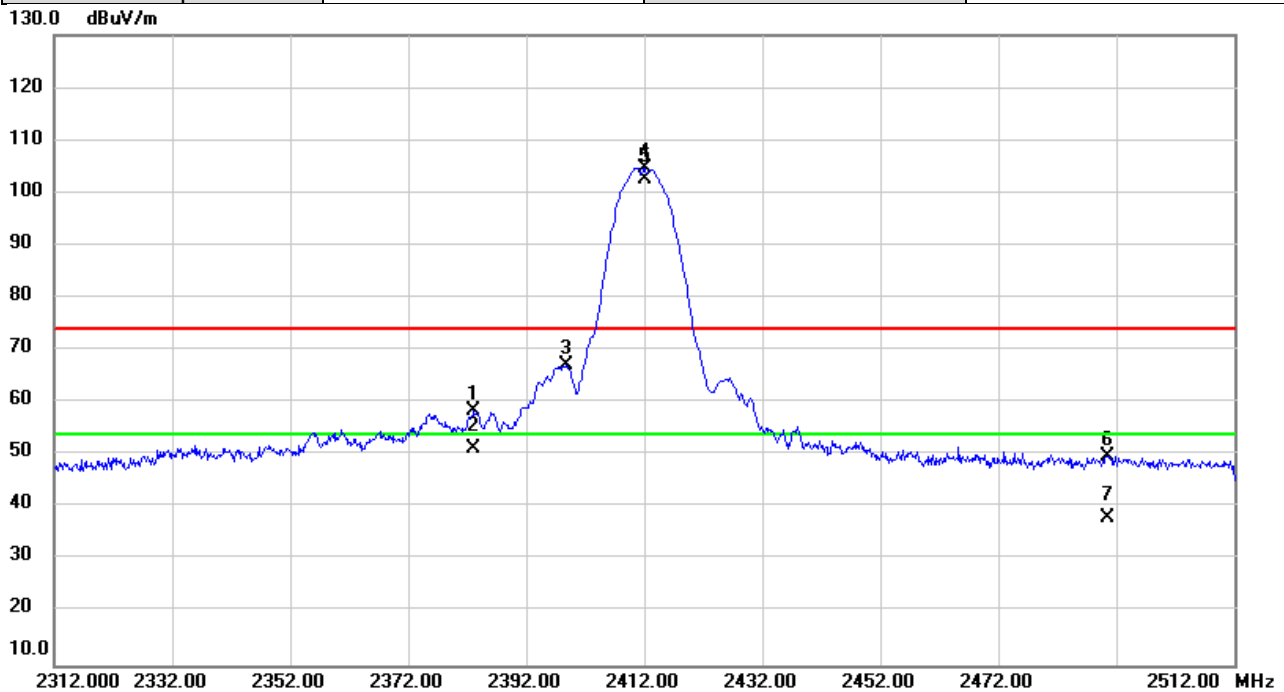
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		121.0506	47.00	-14.36	32.64	43.50	-10.86	peak	
2	*	181.7726	50.09	-13.70	36.39	43.50	-7.11	peak	
3		264.4813	49.29	-12.77	36.52	46.00	-9.48	peak	
4		367.5600	39.78	-9.87	29.91	46.00	-16.09	peak	
5		527.3513	36.84	-6.12	30.72	46.00	-15.28	peak	
6		624.9980	38.07	-3.83	34.24	46.00	-11.76	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D RADIATED EMISSIONS - ABOVE 1 GHZ

Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%



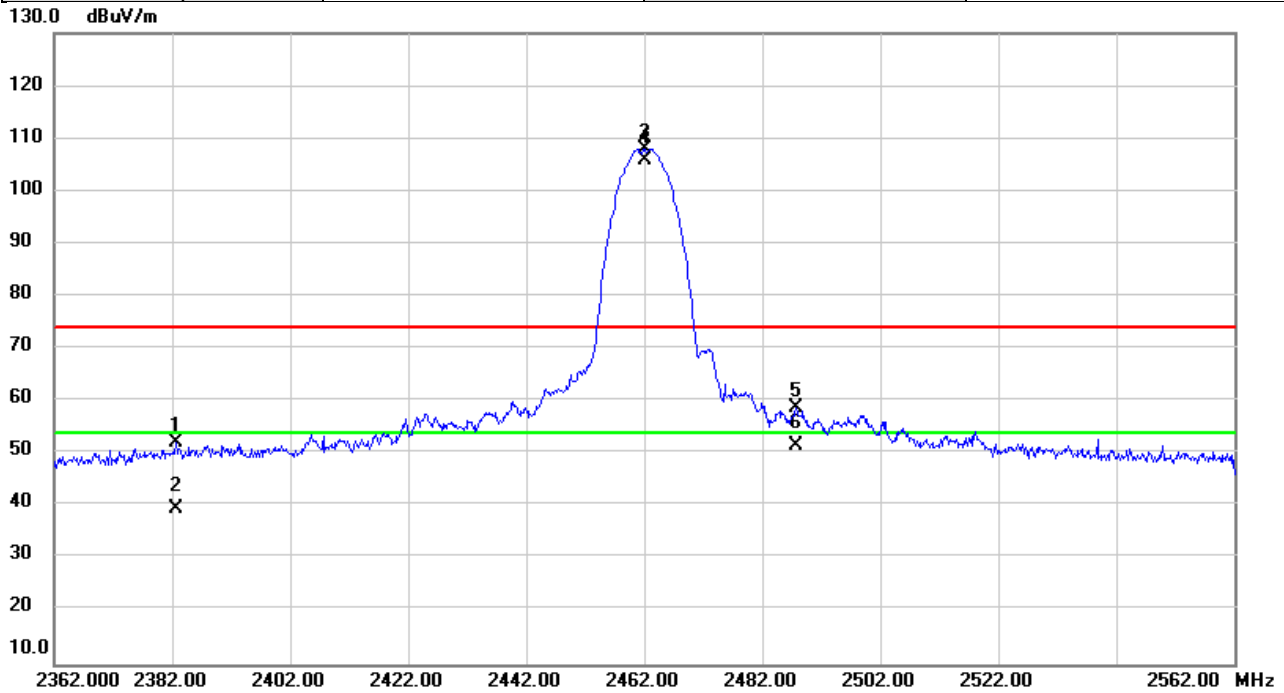
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2383.073	68.86	-10.27	58.59	74.00	-15.41	peak	
2		2383.073	61.56	-10.27	51.29	54.00	-2.71	AVG	
3		2398.927	77.46	-10.23	67.23	74.00	-6.77	peak	NoLimit
4	X	2412.000	114.9	-10.19	104.78	74.00	30.78	peak	NoLimit
5	*	2412.000	112.6	-10.19	102.49	54.00	48.49	AVG	NoLimit
6		2490.513	59.75	-9.98	49.77	74.00	-24.23	peak	
7		2490.513	48.08	-9.98	38.10	54.00	-15.90	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

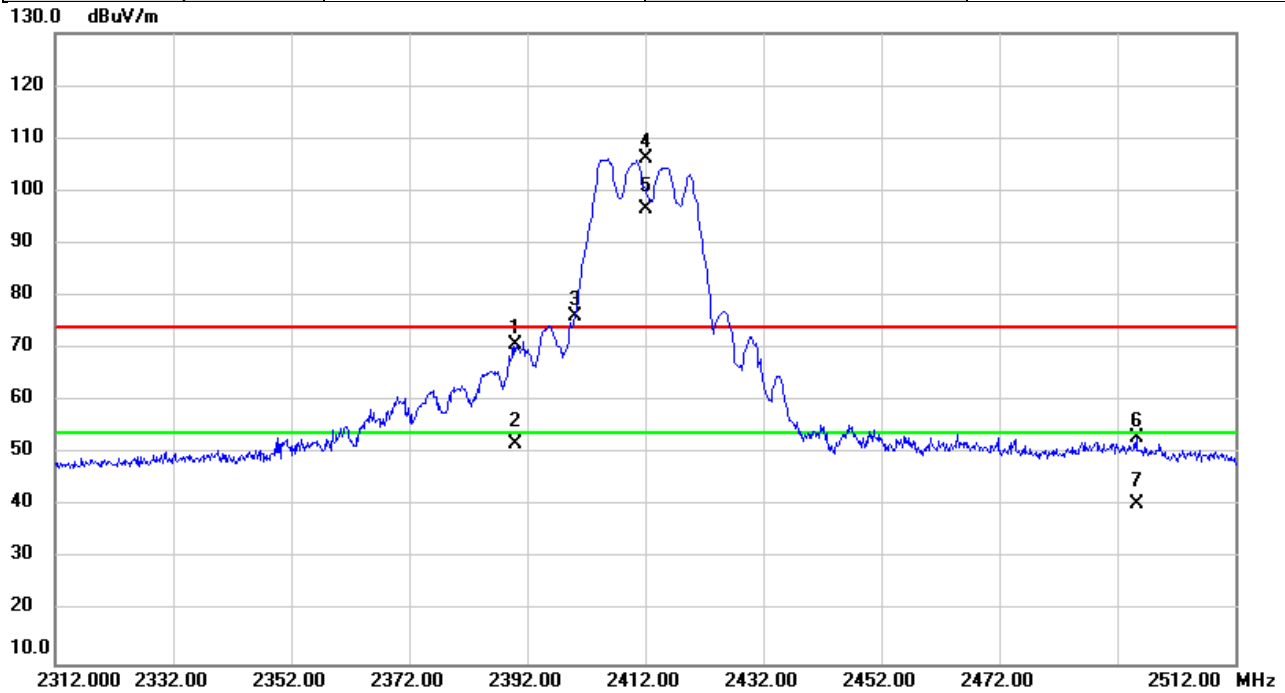


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2382.660	62.50	-10.28	52.22	74.00	-21.78	peak	
2		2382.660	49.86	-10.28	39.58	54.00	-14.42	AVG	
3	X	2462.000	118.1	-10.06	108.08	74.00	34.08	peak	NoLimit
4	*	2462.000	115.8	-10.06	105.81	54.00	51.81	AVG	NoLimit
5		2487.753	68.84	-9.99	58.85	74.00	-15.15	peak	
6		2487.753	61.55	-9.99	51.56	54.00	-2.44	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11g	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%



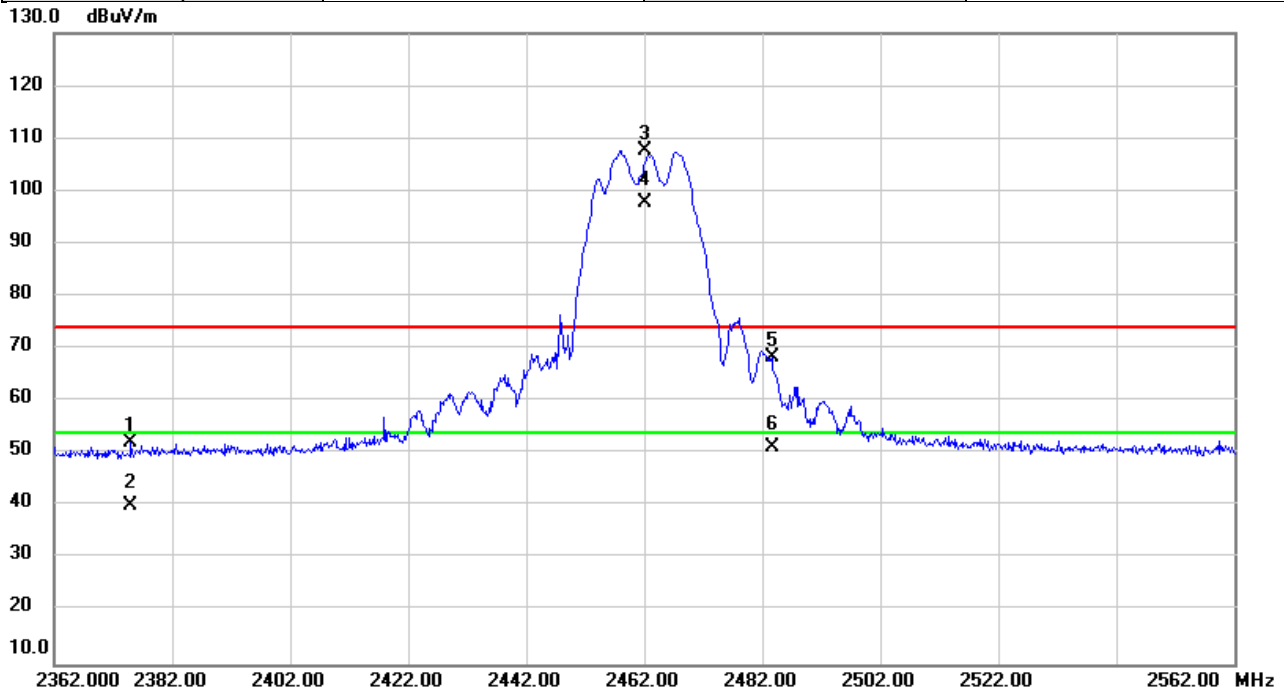
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	80.87	-10.26	70.61	74.00	-3.39	peak	
2		2390.000	62.21	-10.26	51.95	54.00	-2.05	AVG	
3	X	2400.000	86.43	-10.23	76.20	74.00	2.20	peak	NoLimit
4	X	2412.000	116.2	-10.19	106.08	74.00	32.08	peak	NoLimit
5	*	2412.000	106.7	-10.19	96.55	54.00	42.55	AVG	NoLimit
6		2495.333	62.90	-9.97	52.93	74.00	-21.07	peak	
7		2495.333	50.46	-9.97	40.49	54.00	-13.51	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11g	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

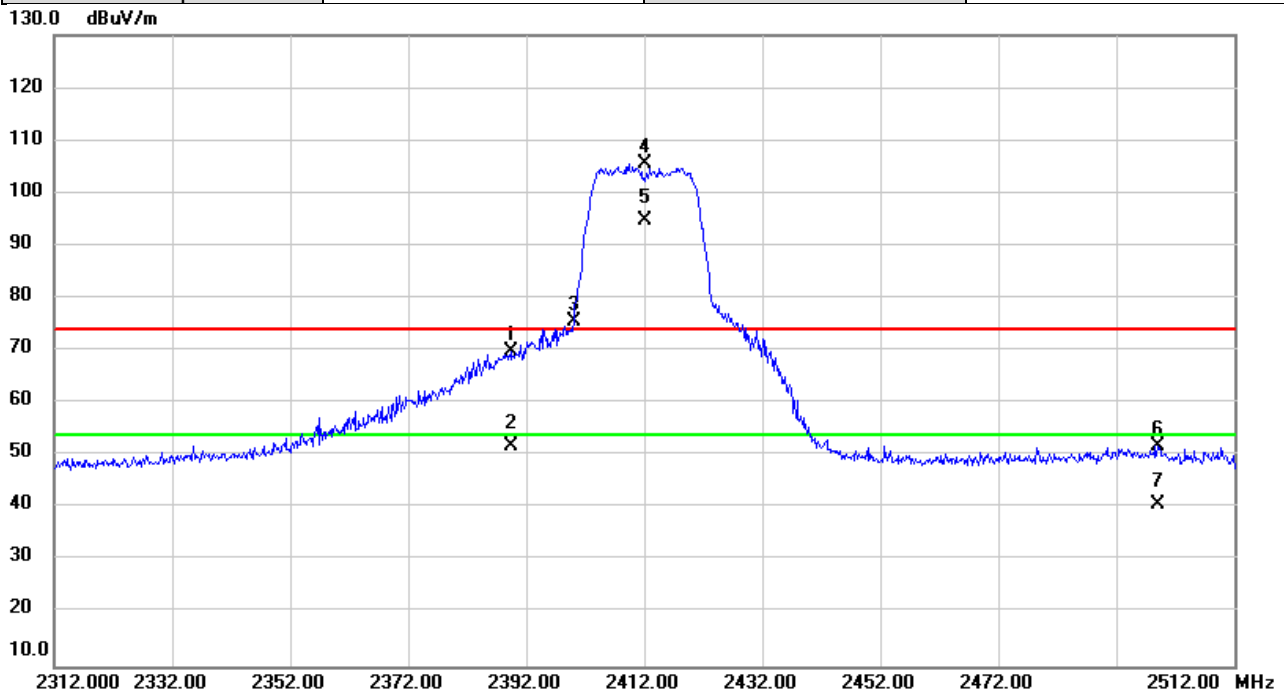


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2375.000	62.31	-10.30	52.01	74.00	-21.99	peak	
2		2375.000	50.32	-10.30	40.02	54.00	-13.98	AVG	
3	X	2462.000	117.7	-10.06	107.70	74.00	33.70	peak	NoLimit
4	*	2462.000	107.7	-10.06	97.70	54.00	43.70	AVG	NoLimit
5		2483.727	78.43	-10.00	68.43	74.00	-5.57	peak	
6		2483.727	61.20	-10.00	51.20	54.00	-2.80	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%



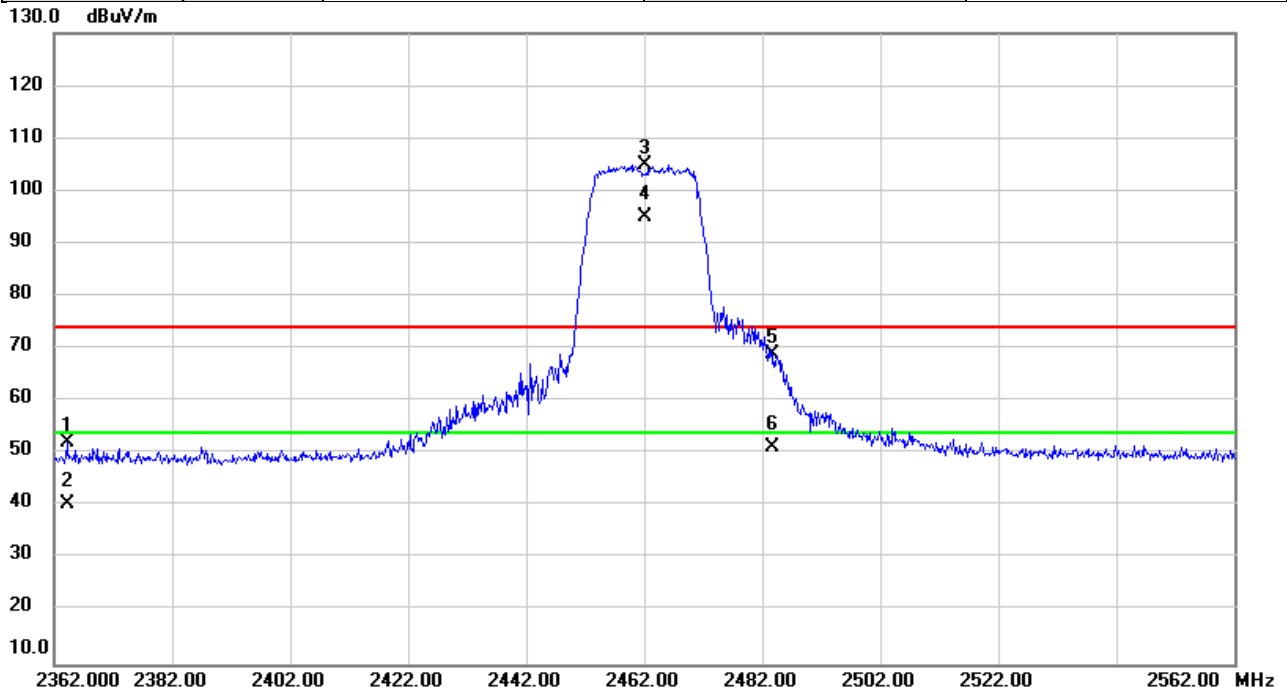
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2389.353	80.02	-10.26	69.76	74.00	-4.24	peak	
2		2389.353	62.22	-10.26	51.96	54.00	-2.04	AVG	
3	X	2400.000	85.65	-10.23	75.42	74.00	1.42	peak	NoLimit
4	X	2412.000	115.6	-10.19	105.48	74.00	31.48	peak	NoLimit
5	*	2412.000	105.0	-10.19	94.86	54.00	40.86	AVG	NoLimit
6		2499.047	61.83	-9.96	51.87	74.00	-22.13	peak	
7		2499.047	50.81	-9.96	40.85	54.00	-13.15	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

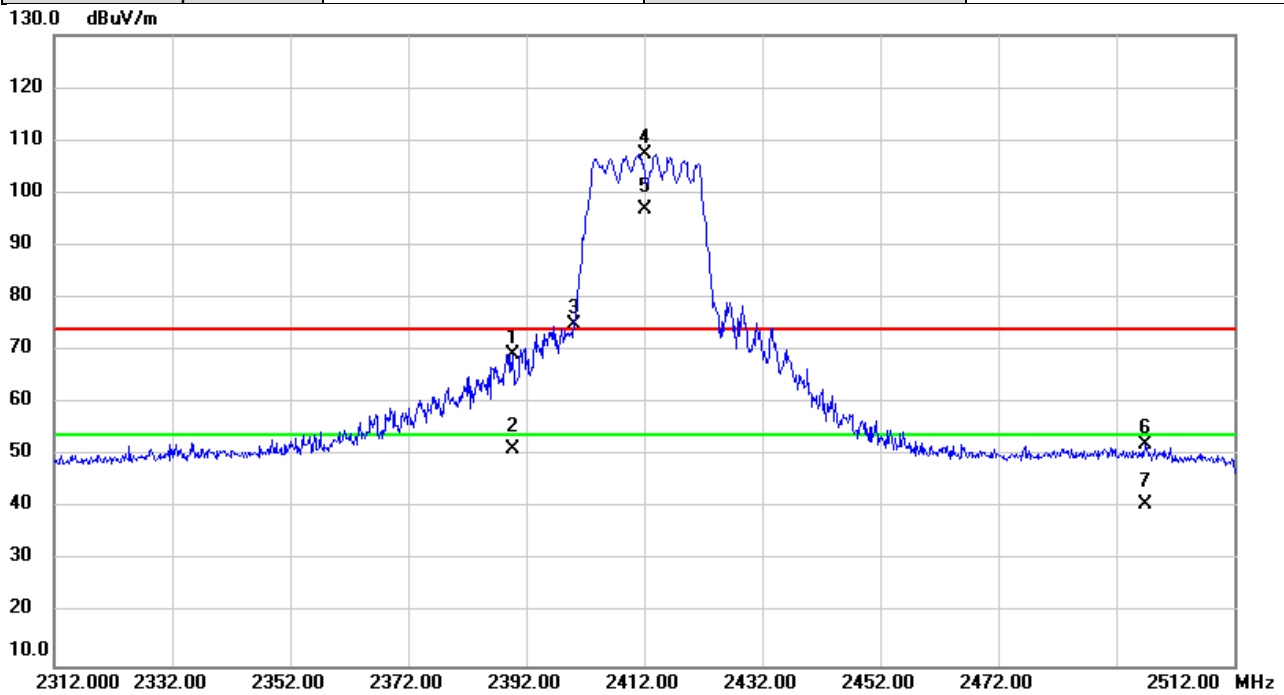


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2364.140	62.60	-10.32	52.28	74.00	-21.72	peak	
2		2364.140	50.81	-10.32	40.49	54.00	-13.51	AVG	
3	X	2462.000	115.0	-10.06	105.03	74.00	31.03	peak	NoLimit
4	*	2462.000	105.2	-10.06	95.17	54.00	41.17	AVG	NoLimit
5		2483.847	78.81	-10.00	68.81	74.00	-5.19	peak	
6		2483.847	61.26	-10.00	51.26	54.00	-2.74	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%



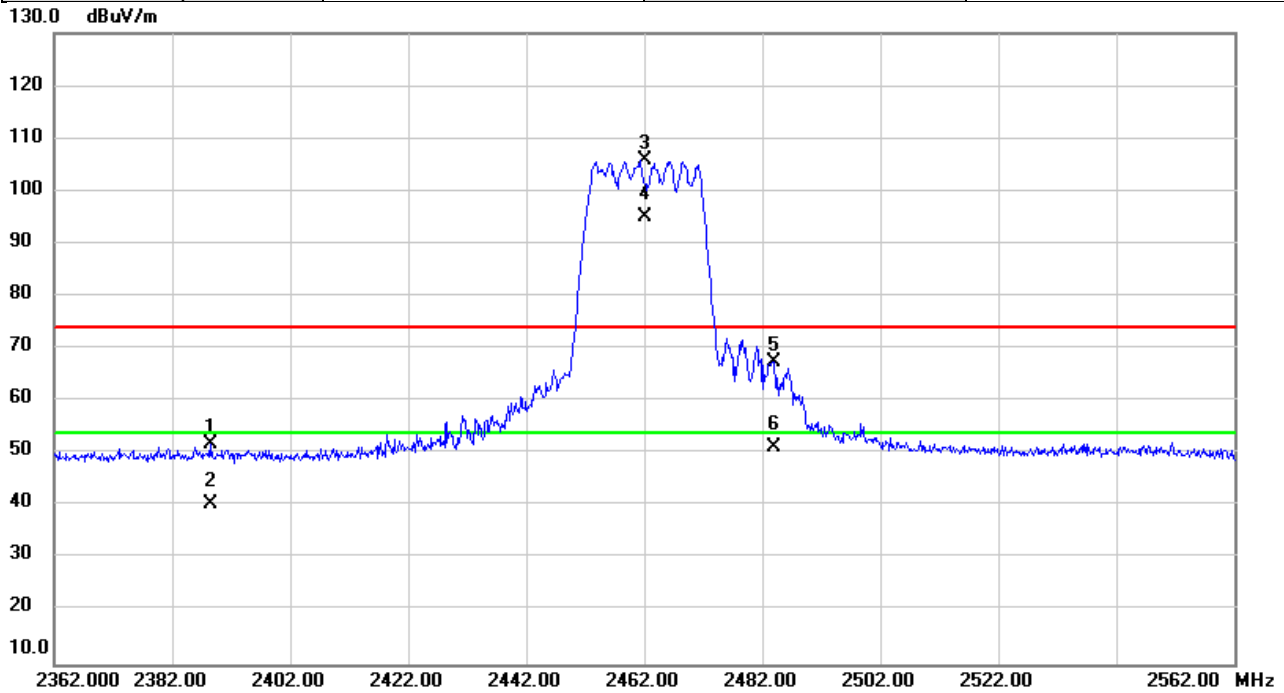
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2389.613	79.64	-10.26	69.38	74.00	-4.62	peak	
2		2389.613	61.38	-10.26	51.12	54.00	-2.88	AVG	
3	X	2400.000	85.26	-10.23	75.03	74.00	1.03	peak	NoLimit
4	X	2412.000	117.5	-10.19	107.35	74.00	33.35	peak	NoLimit
5	*	2412.000	107.0	-10.19	96.84	54.00	42.84	AVG	NoLimit
6		2496.807	62.24	-9.97	52.27	74.00	-21.73	peak	
7		2496.807	50.76	-9.97	40.79	54.00	-13.21	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

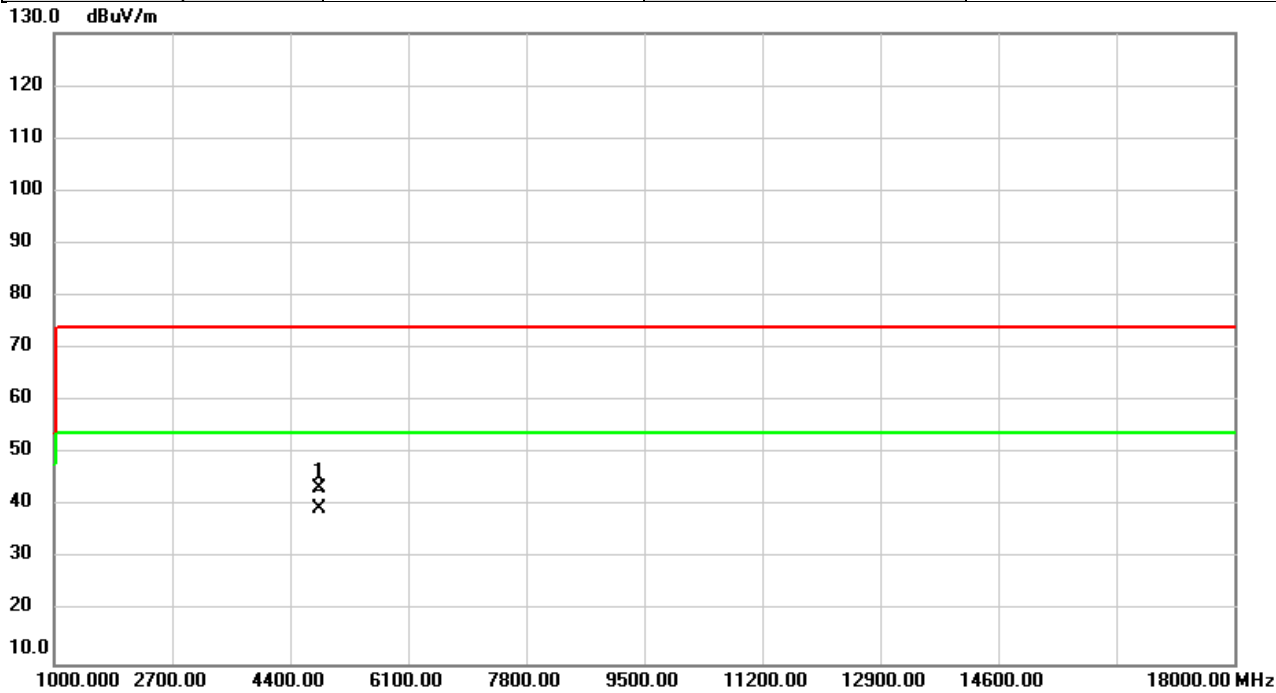


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2388.613	62.19	-10.26	51.93	74.00	-22.07	peak	
2		2388.613	50.59	-10.26	40.33	54.00	-13.67	AVG	
3	X	2462.000	116.0	-10.06	105.97	74.00	31.97	peak	Nolimit
4	*	2462.000	105.1	-10.06	95.12	54.00	41.12	AVG	Nolimit
5		2483.887	77.58	-10.00	67.58	74.00	-6.42	peak	
6		2483.887	61.27	-10.00	51.27	54.00	-2.73	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Vertical
Temp	23°C	Hum.	58%

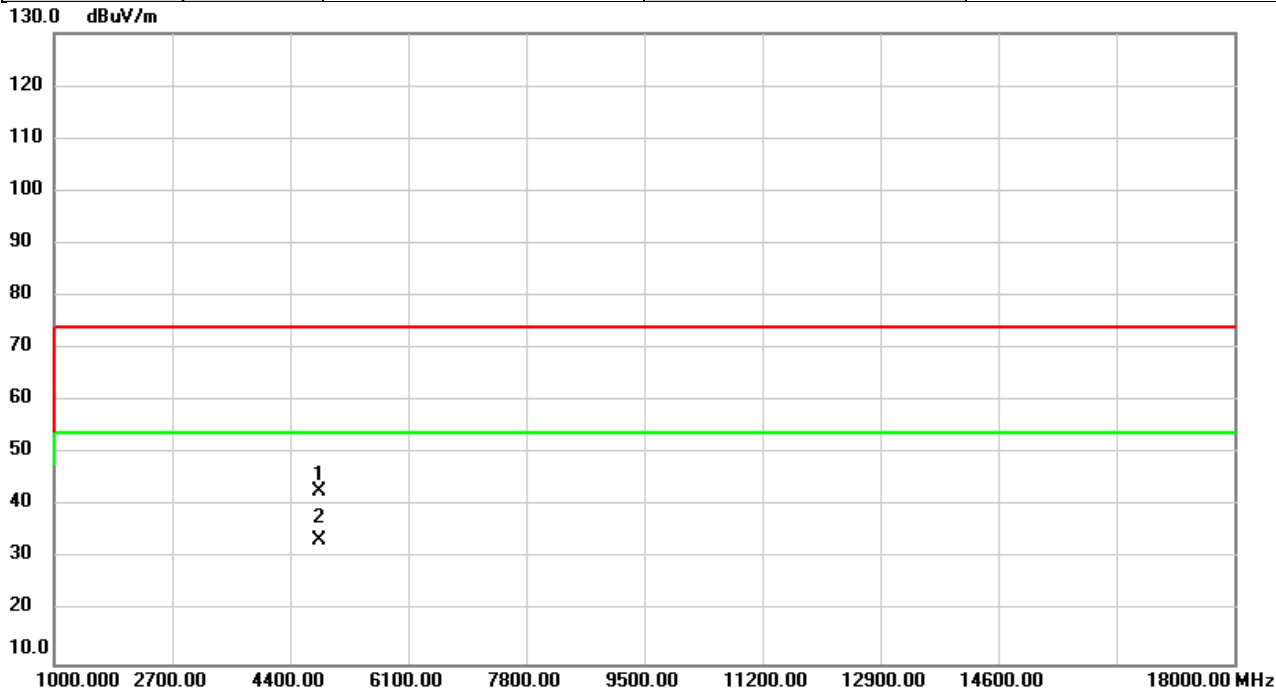


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	47.44	-4.08	43.36	74.00	-30.64	peak	
2	*	4824.000	43.51	-4.08	39.43	54.00	-14.57	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

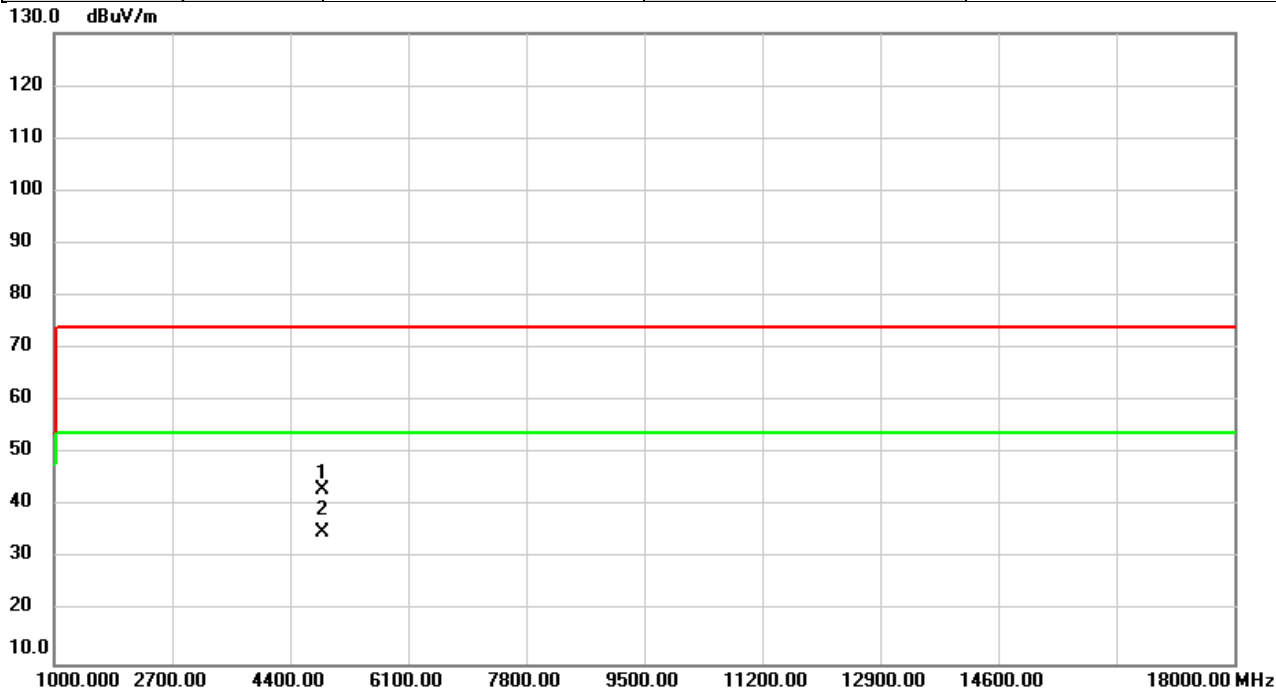
Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.000	46.97	-4.08	42.89	74.00	-31.11	peak	
2	*	4824.000	37.62	-4.08	33.54	54.00	-20.46	AVG	

REMARKS:
 (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	58%

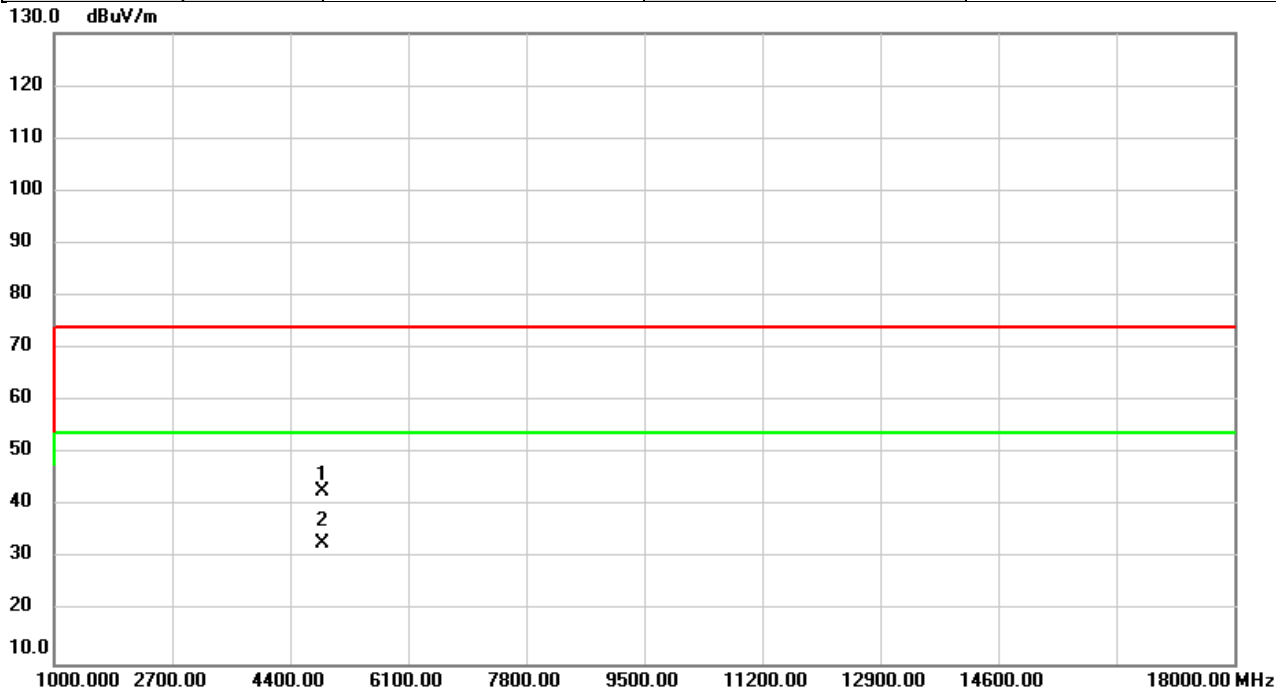


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	46.95	-3.92	43.03	74.00	-30.97	peak	
2	*	4874.000	39.02	-3.92	35.10	54.00	-18.90	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

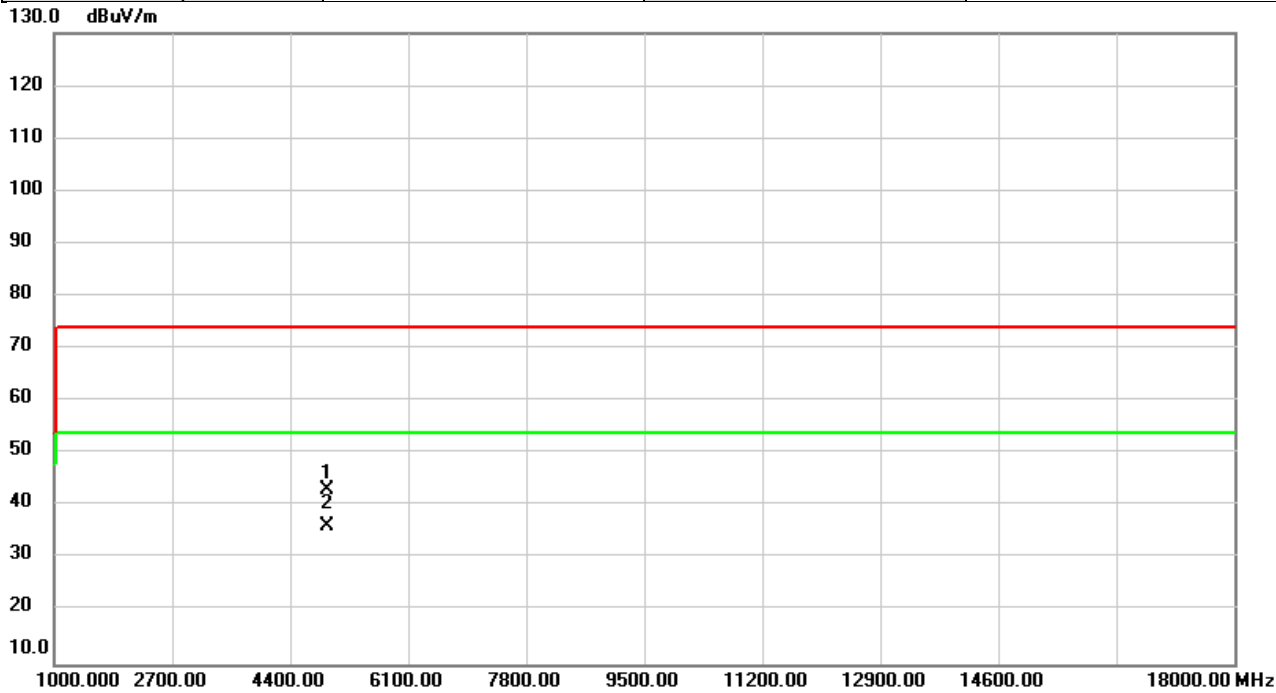
Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	46.91	-3.92	42.99	74.00	-31.01	peak	
2	*	4874.000	36.95	-3.92	33.03	54.00	-20.97	AVG	

REMARKS:
 (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Vertical
Temp	23°C	Hum.	58%

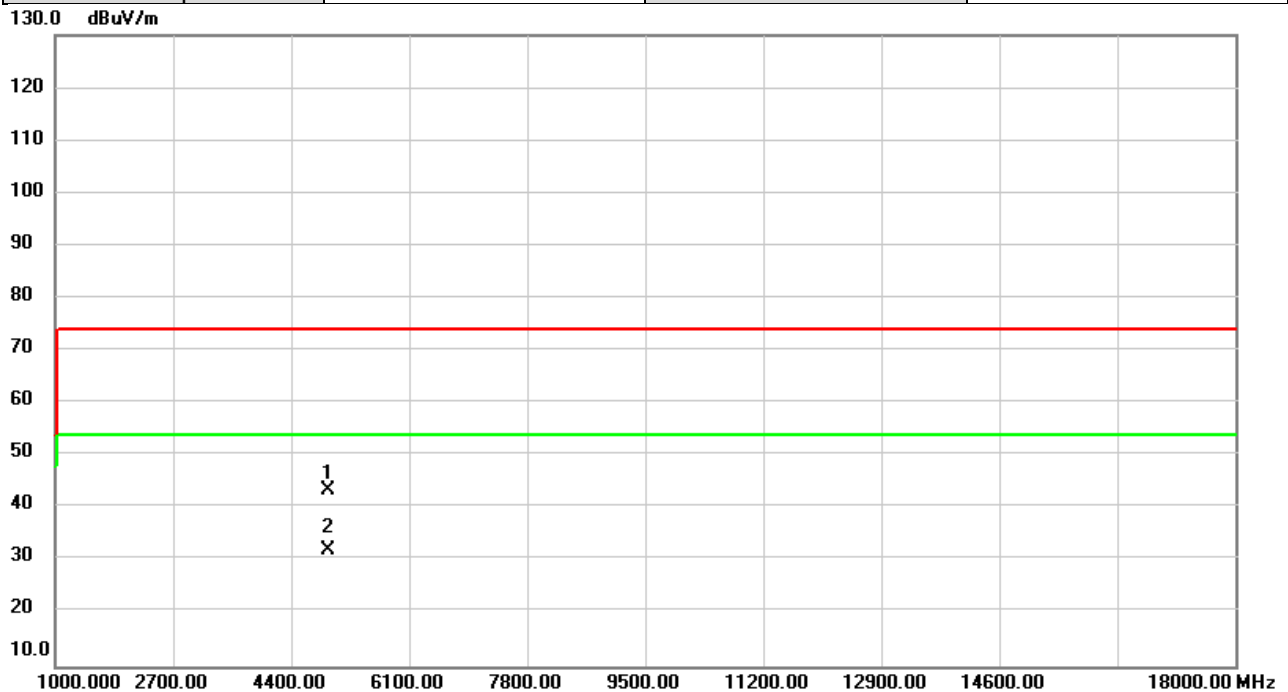


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.000	47.06	-3.76	43.30	74.00	-30.70	peak	
2	*	4924.000	40.16	-3.76	36.40	54.00	-17.60	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11b	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

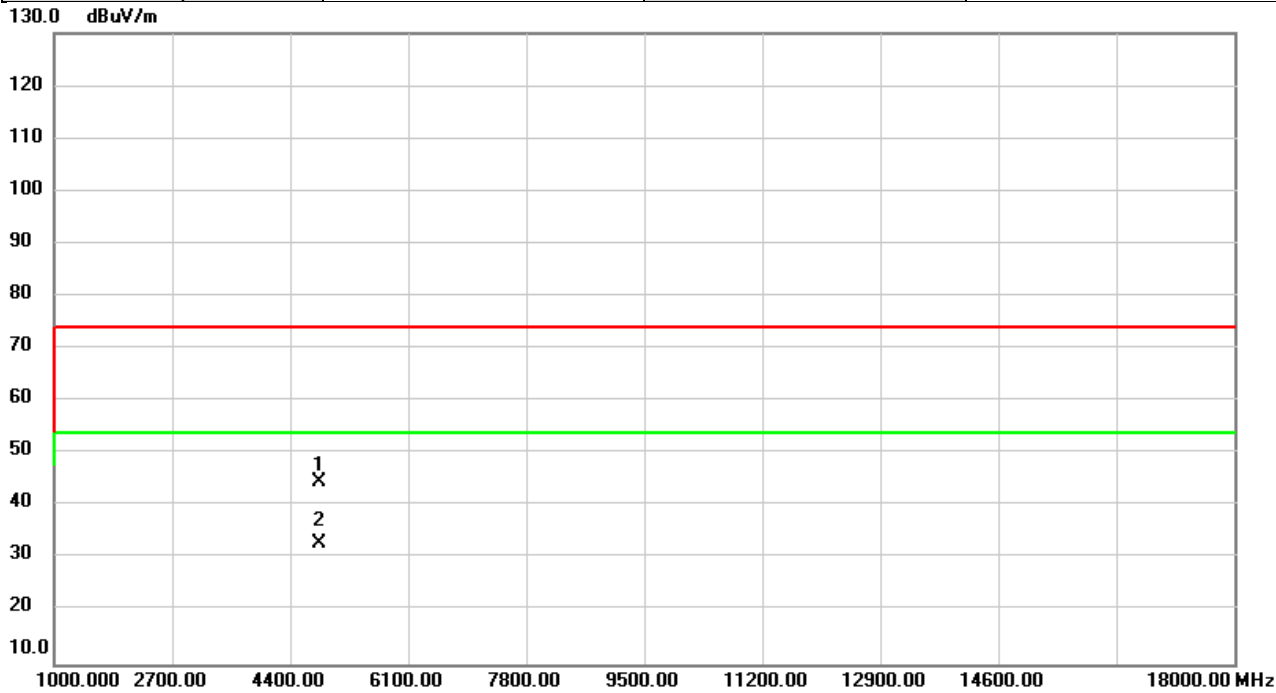


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.000	47.23	-3.76	43.47	74.00	-30.53	peak	
2	*	4924.000	35.93	-3.76	32.17	54.00	-21.83	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11g	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Vertical
Temp	23°C	Hum.	58%

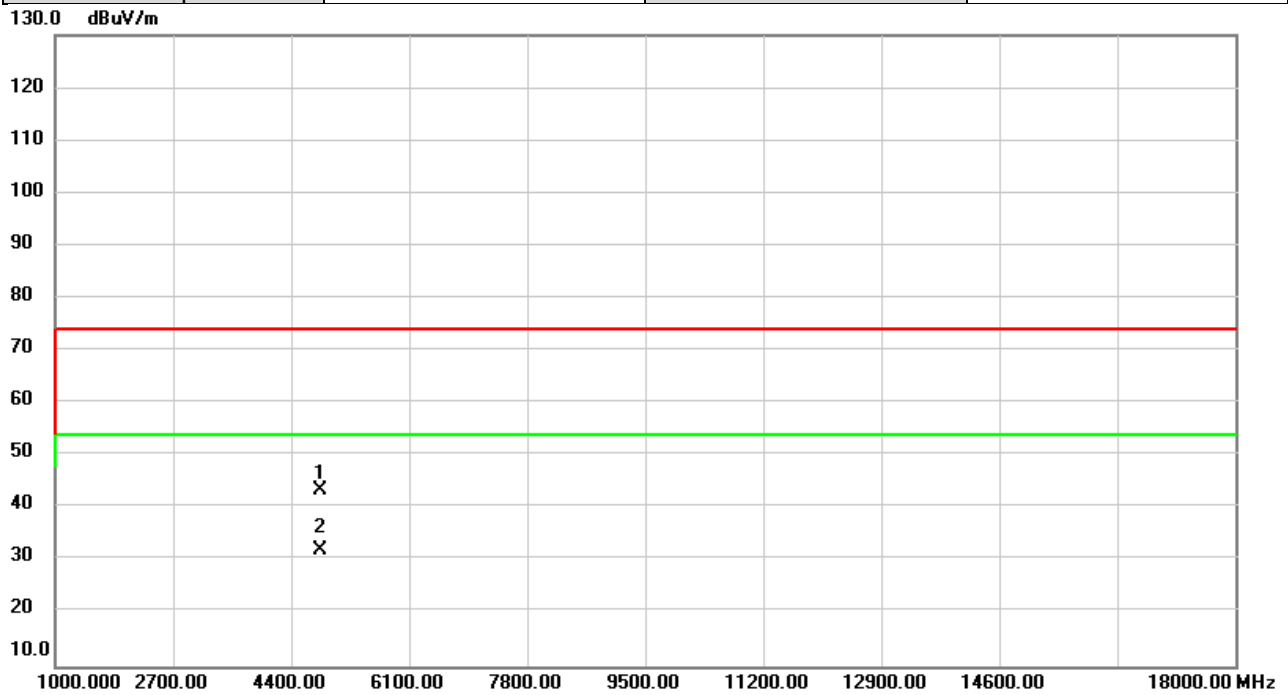


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	48.87	-4.08	44.79	74.00	-29.21	peak	
2	*	4824.000	37.01	-4.08	32.93	54.00	-21.07	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11g	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

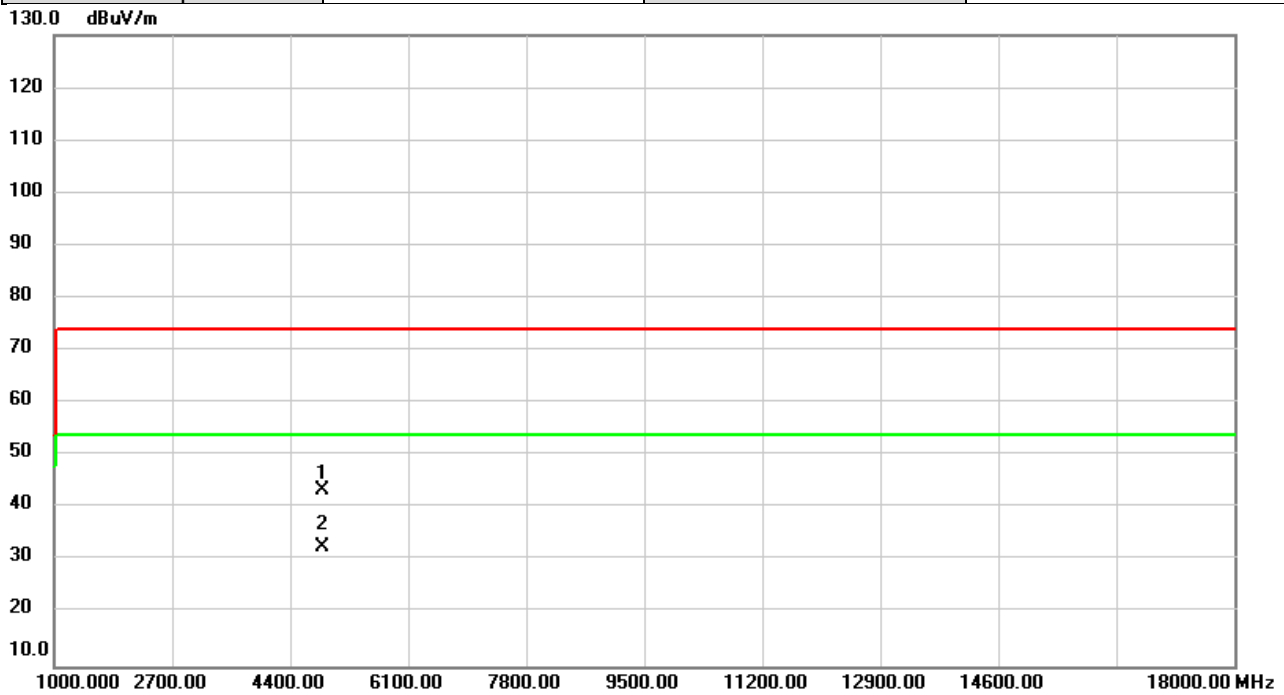


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.000	47.59	-4.08	43.51	74.00	-30.49	peak	
2	*	4824.000	36.15	-4.08	32.07	54.00	-21.93	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11g	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	58%

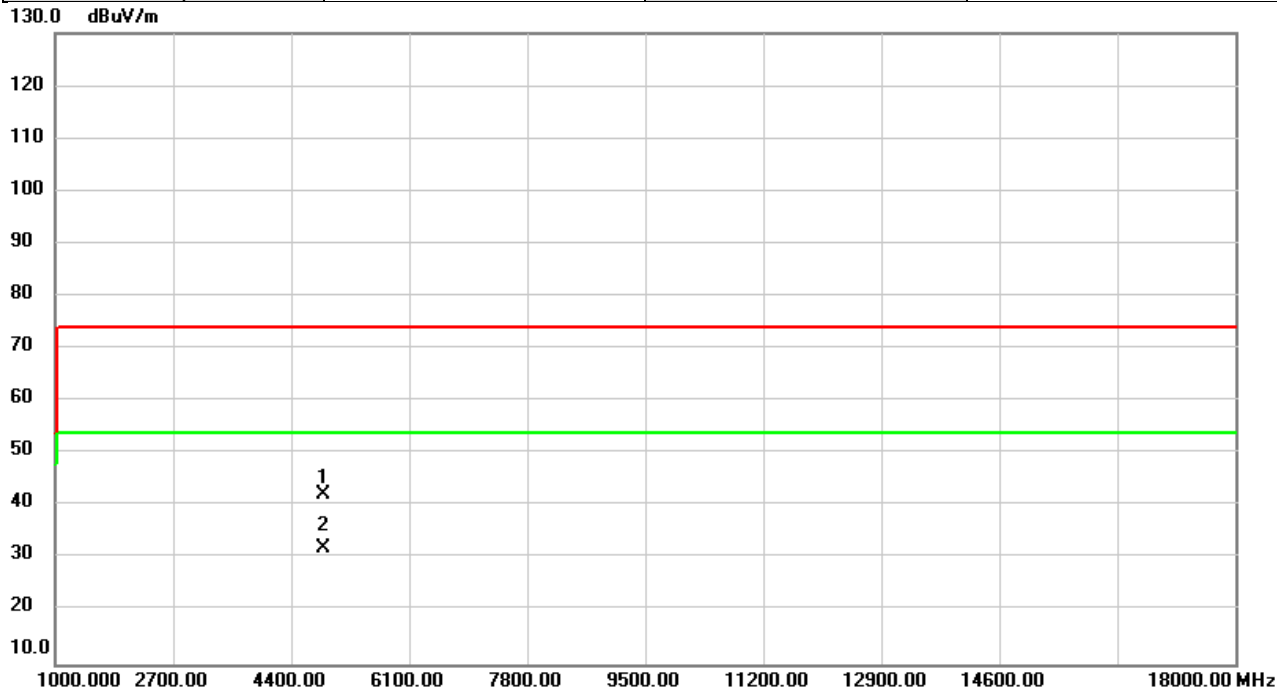


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	47.49	-3.92	43.57	74.00	-30.43	peak	
2	*	4874.000	36.52	-3.92	32.60	54.00	-21.40	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

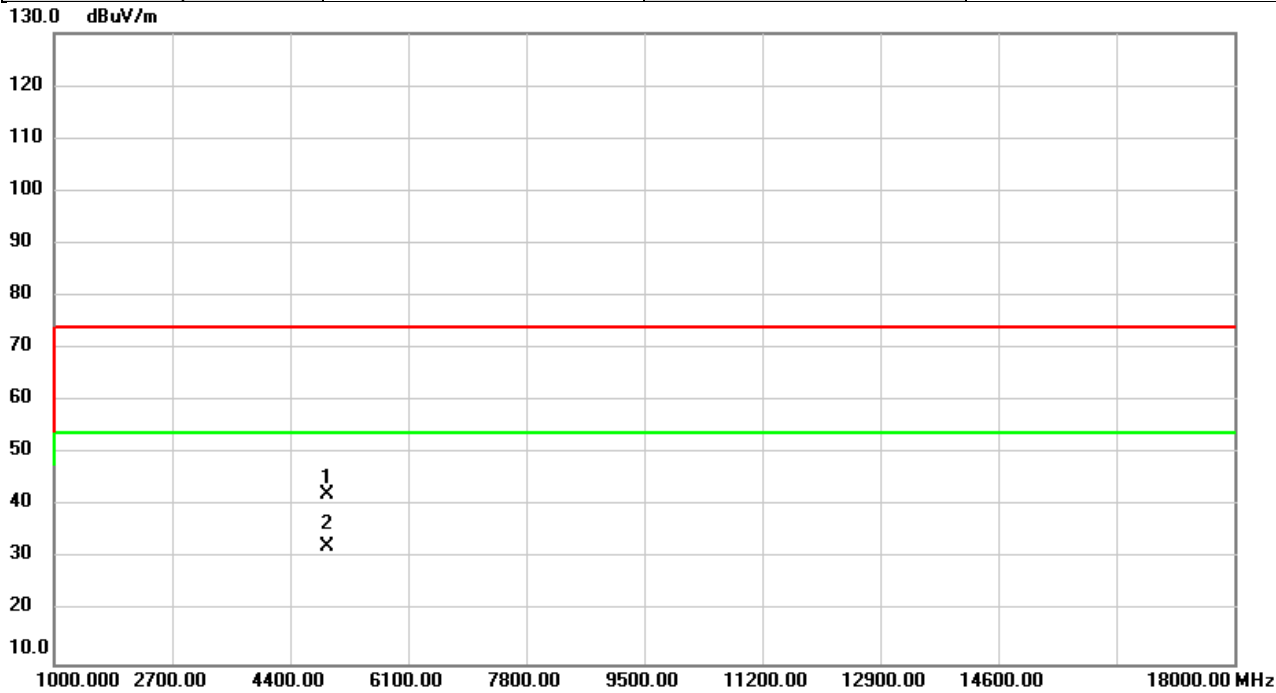
Test Mode	IEEE 802.11g	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	46.13	-3.92	42.21	74.00	-31.79	peak	
2	*	4874.000	36.01	-3.92	32.09	54.00	-21.91	AVG	

REMARKS:
 (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

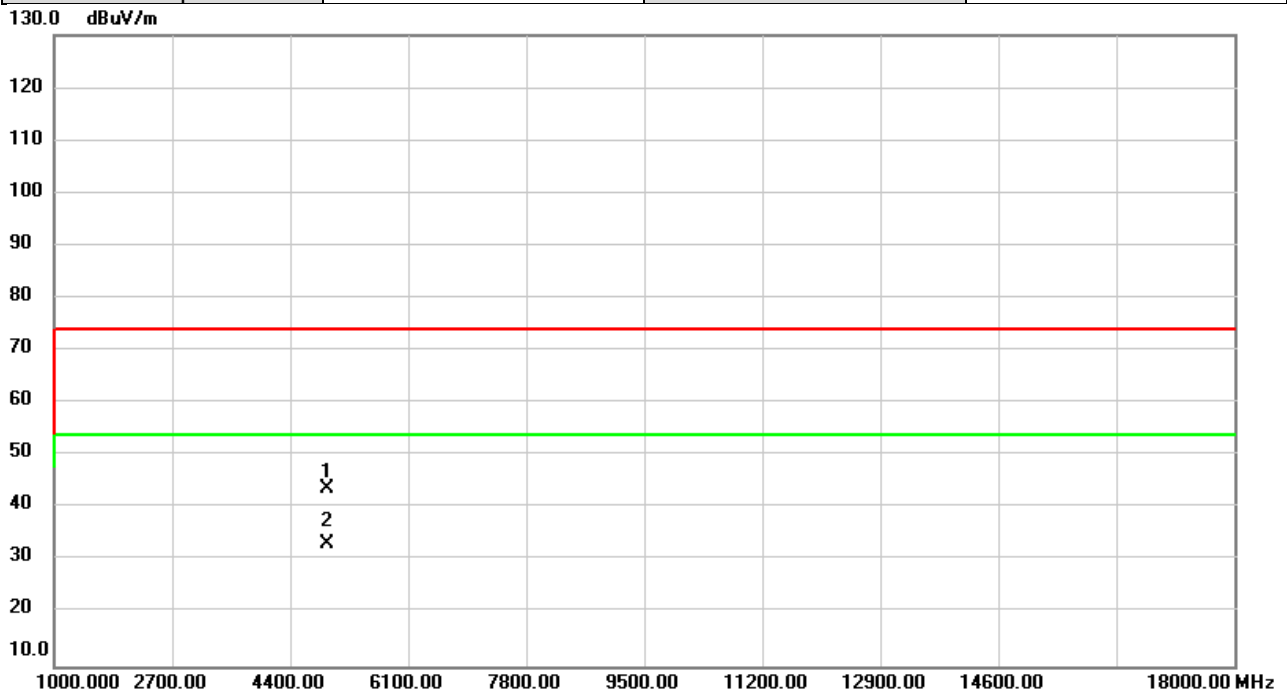
Test Mode	IEEE 802.11g	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Vertical
Temp	23°C	Hum.	58%



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.000	46.12	-3.76	42.36	74.00	-31.64	peak	
2	*	4924.000	36.19	-3.76	32.43	54.00	-21.57	AVG	

REMARKS:
 (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11g	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

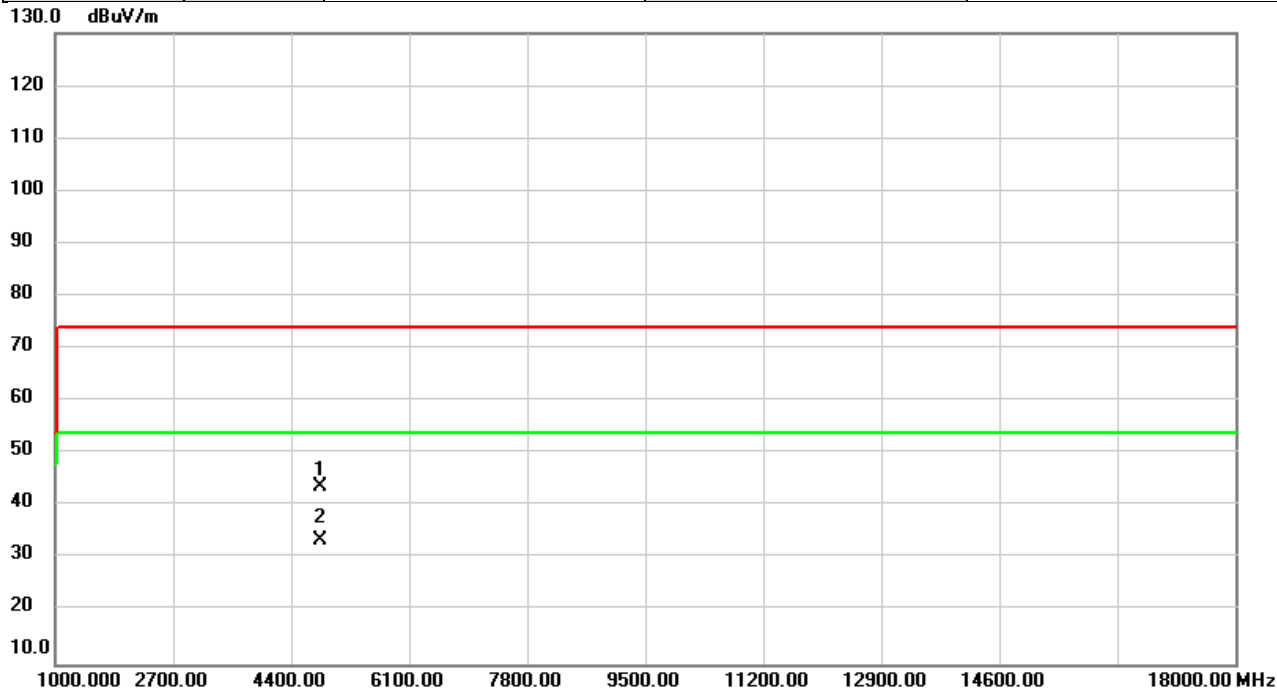


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	47.44	-3.76	43.68	74.00	-30.32	peak	
2	*	4924.000	37.02	-3.76	33.26	54.00	-20.74	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Vertical
Temp	23°C	Hum.	58%

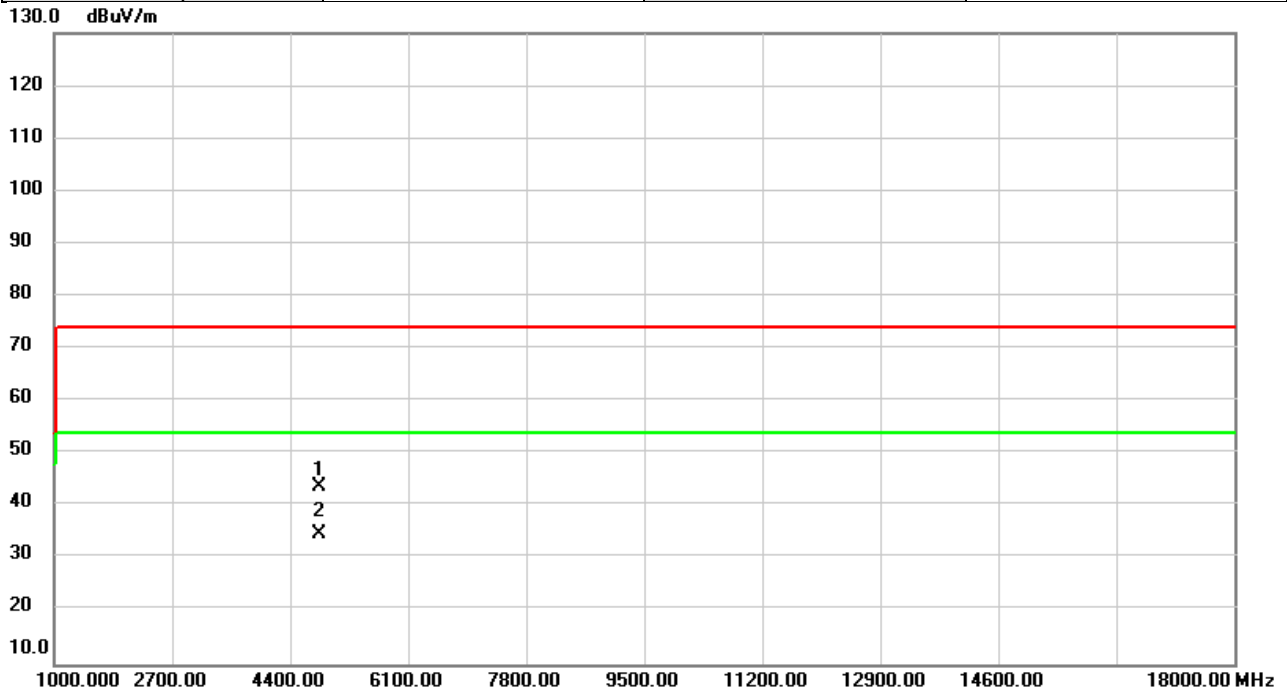


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.000	47.85	-4.08	43.77	74.00	-30.23	peak	
2	*	4824.000	37.56	-4.08	33.48	54.00	-20.52	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

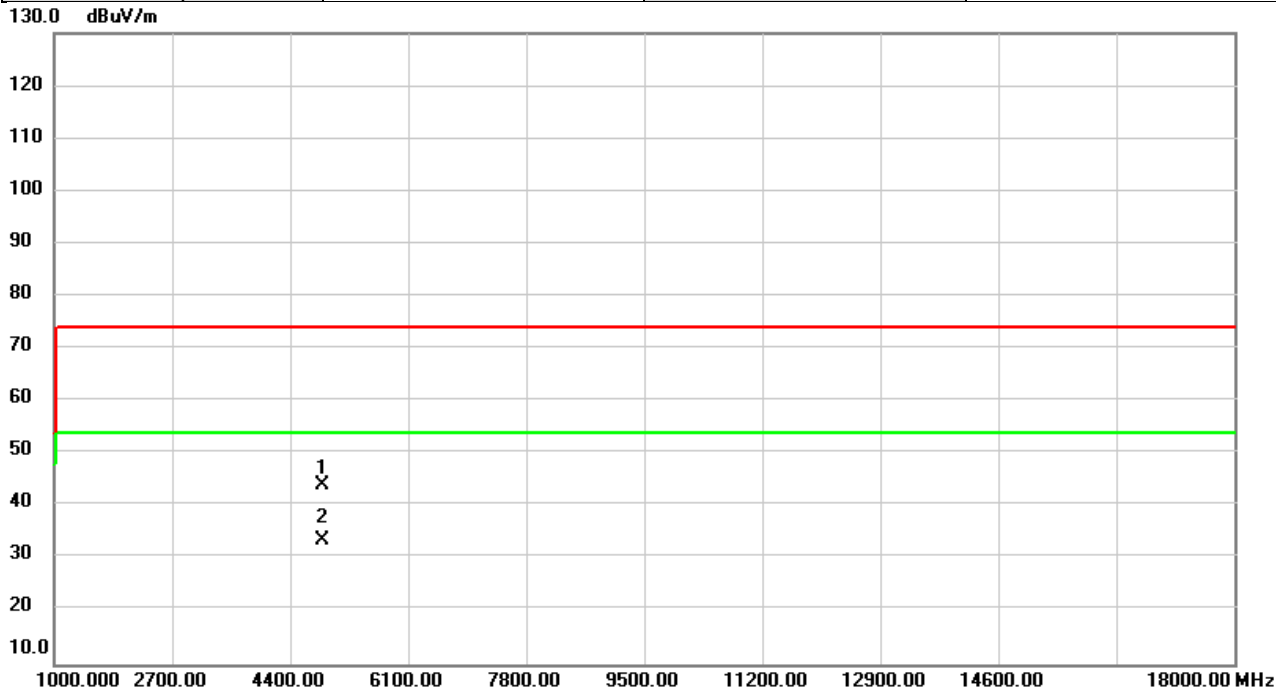


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.000	47.74	-4.08	43.66	74.00	-30.34	peak	
2	*	4824.000	38.90	-4.08	34.82	54.00	-19.18	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

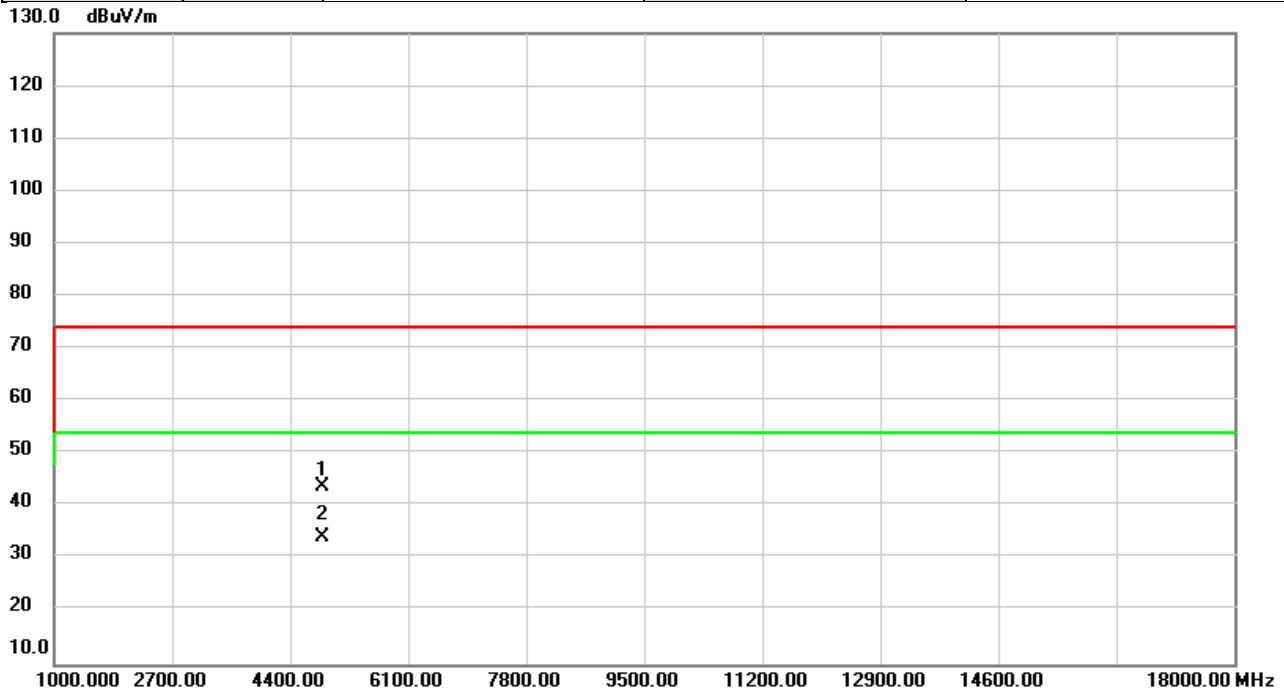
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	58%



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	47.84	-3.92	43.92	74.00	-30.08	peak	
2	*	4874.000	37.51	-3.92	33.59	54.00	-20.41	AVG	

REMARKS:
 (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

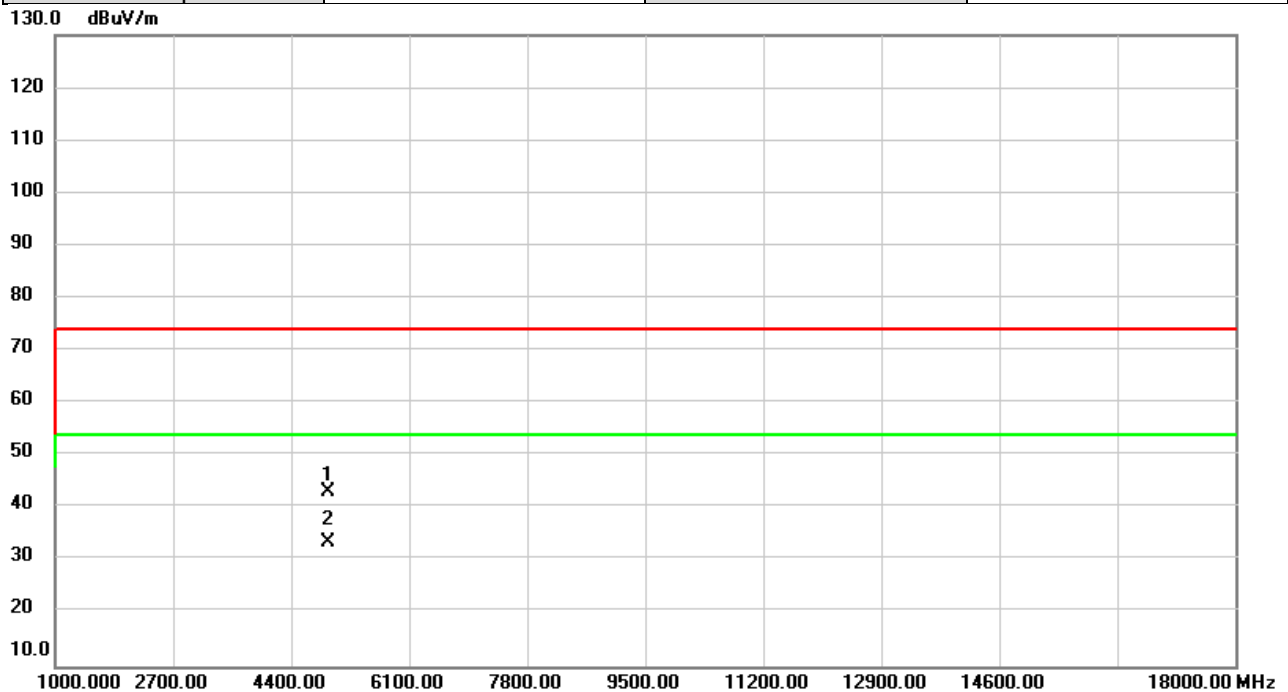


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	47.53	-3.92	43.61	74.00	-30.39	peak	
2	*	4874.000	38.06	-3.92	34.14	54.00	-19.86	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Vertical
Temp	23°C	Hum.	58%

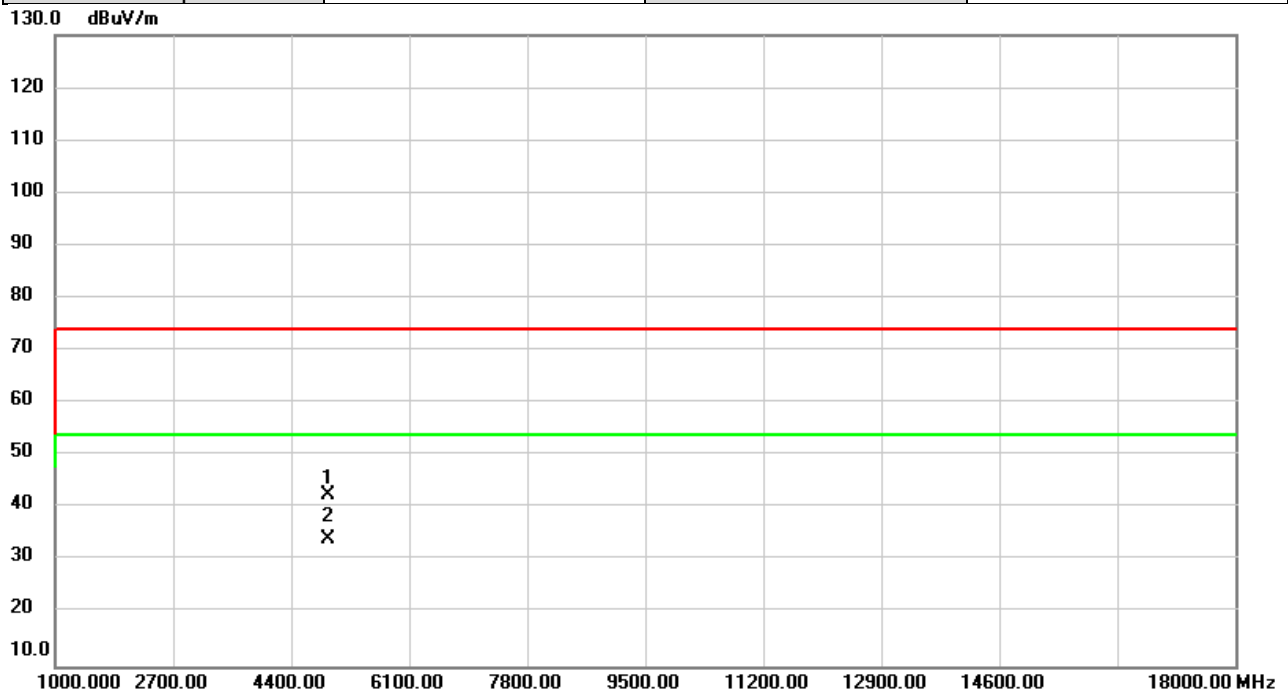


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.000	46.92	-3.76	43.16	74.00	-30.84	peak	
2	*	4924.000	37.35	-3.76	33.59	54.00	-20.41	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11n (HT20)	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

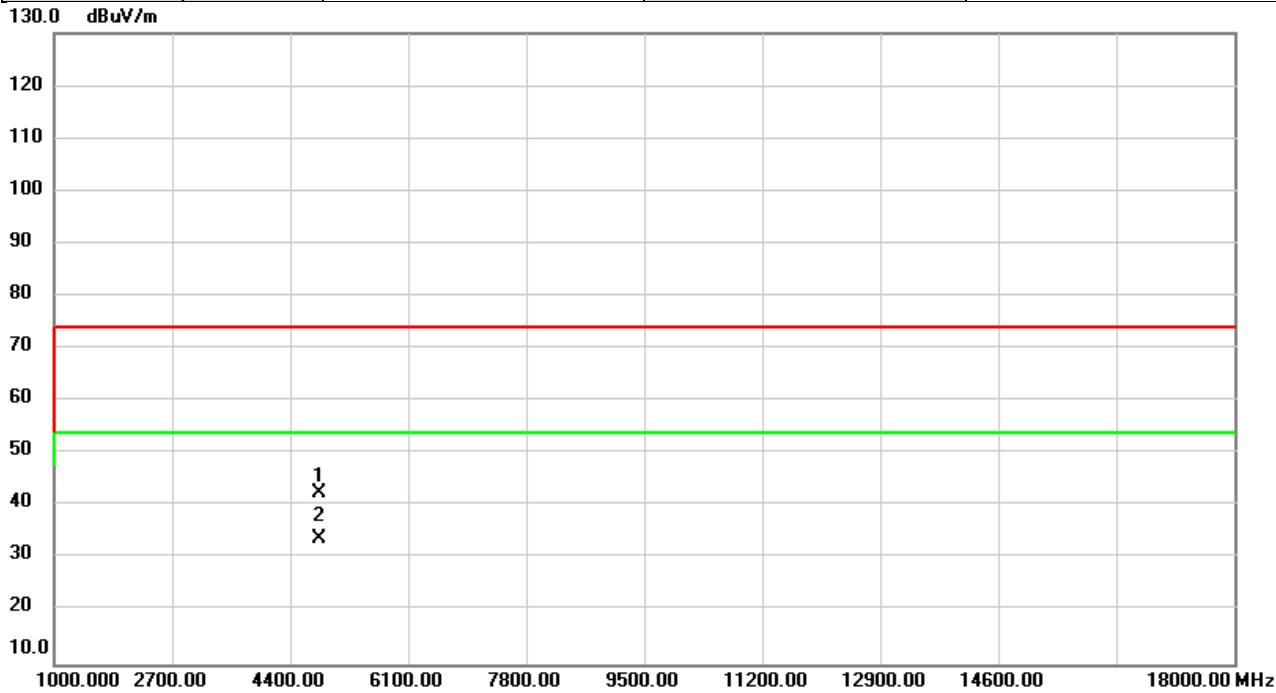


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.000	46.41	-3.76	42.65	74.00	-31.35	peak	
2	*	4924.000	37.89	-3.76	34.13	54.00	-19.87	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

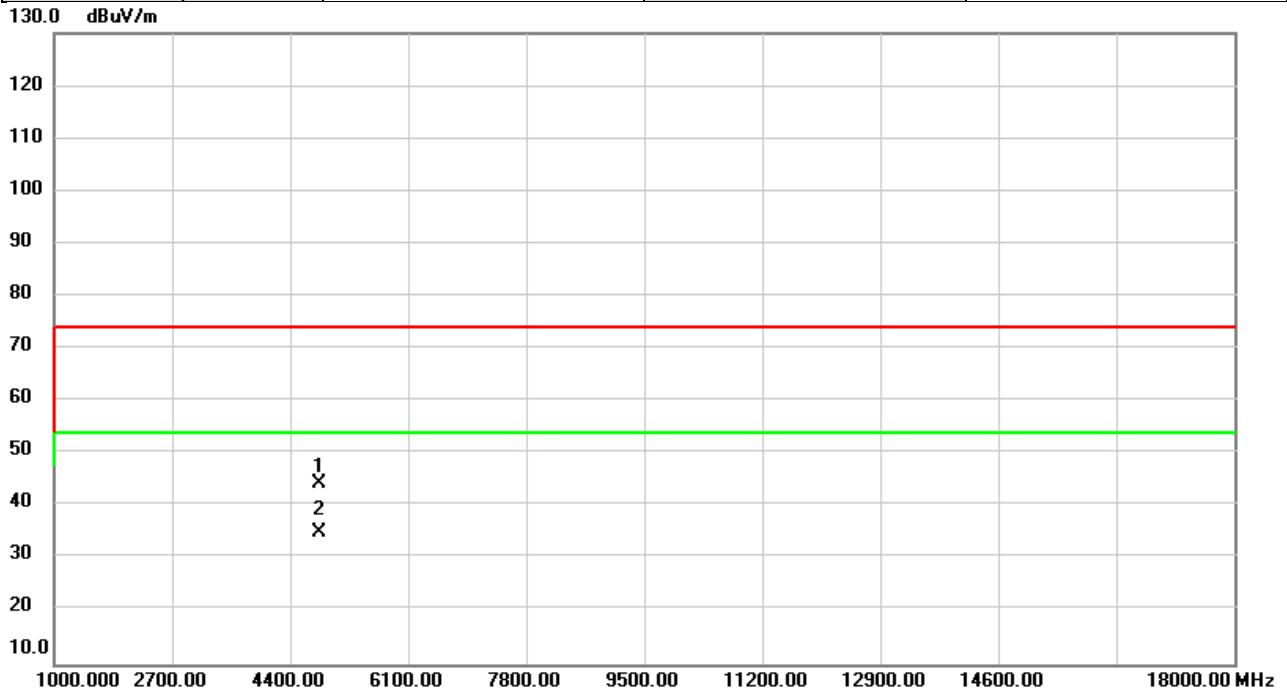
Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Vertical
Temp	23°C	Hum.	58%



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.000	46.56	-4.08	42.48	74.00	-31.52	peak	
2	*	4824.000	38.01	-4.08	33.93	54.00	-20.07	AVG	

REMARKS:
 (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/9/9
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

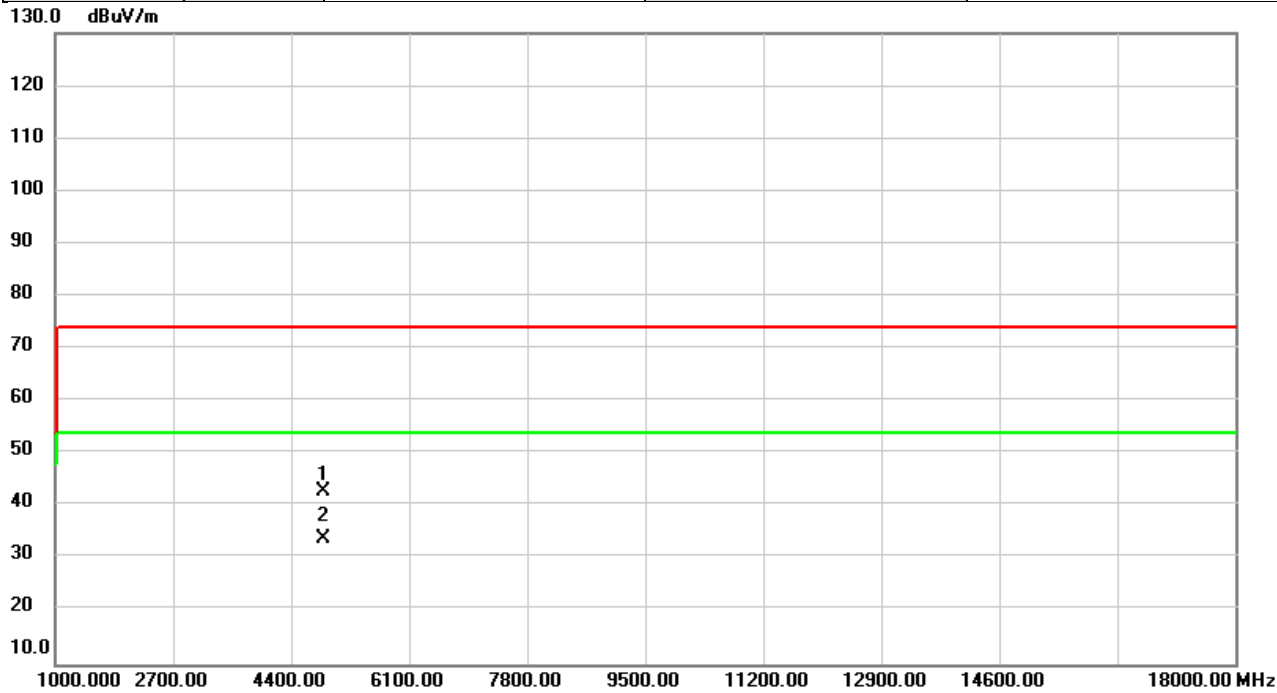


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	48.44	-4.08	44.36	74.00	-29.64	peak	
2	*	4824.000	39.11	-4.08	35.03	54.00	-18.97	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

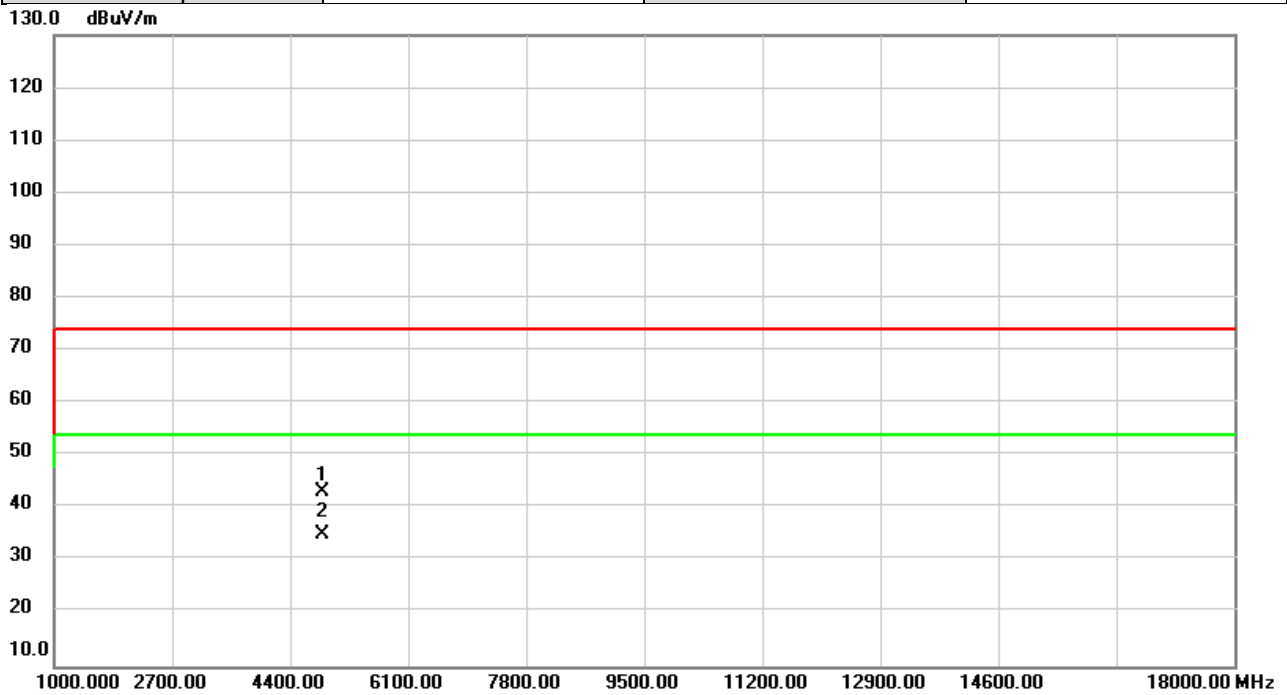
Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	58%



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	46.78	-3.92	42.86	74.00	-31.14	peak	
2	*	4874.000	37.83	-3.92	33.91	54.00	-20.09	AVG	

REMARKS:
 (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/9/9
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

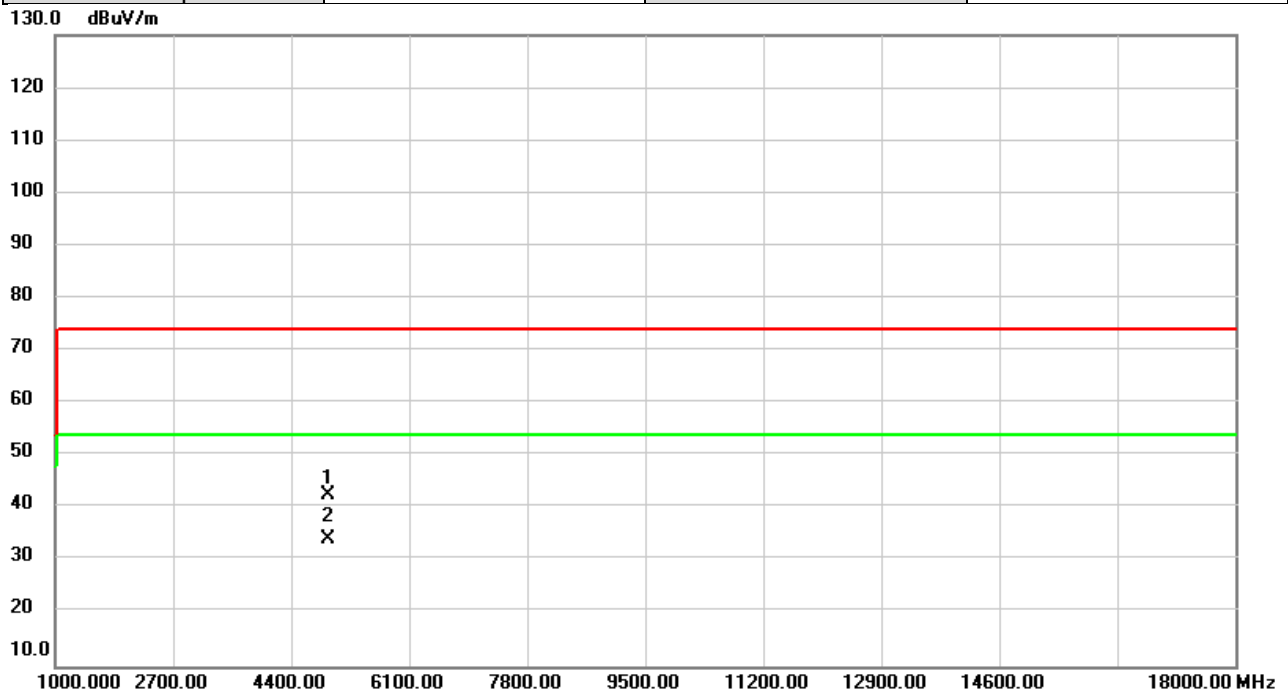


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	47.13	-3.92	43.21	74.00	-30.79	peak	
2	*	4874.000	38.98	-3.92	35.06	54.00	-18.94	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Vertical
Temp	23°C	Hum.	58%

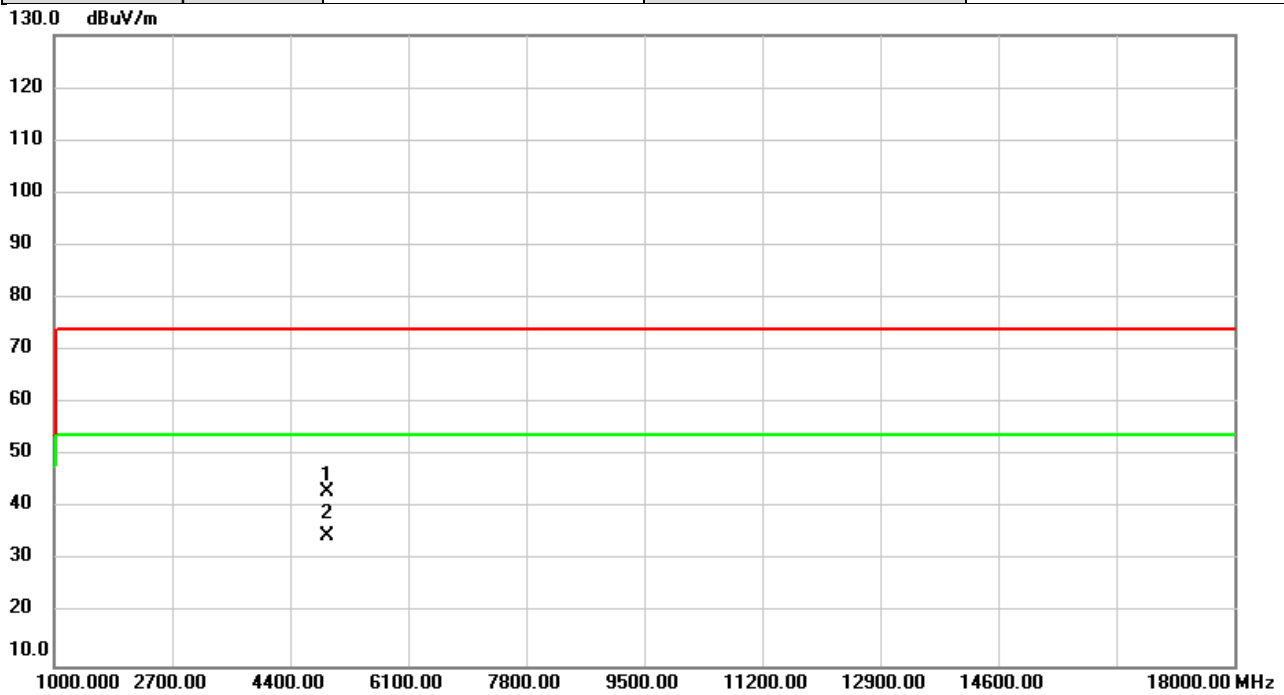


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.000	46.44	-3.76	42.68	74.00	-31.32	peak	
2	*	4924.000	37.82	-3.76	34.06	54.00	-19.94	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/9/9
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	58%

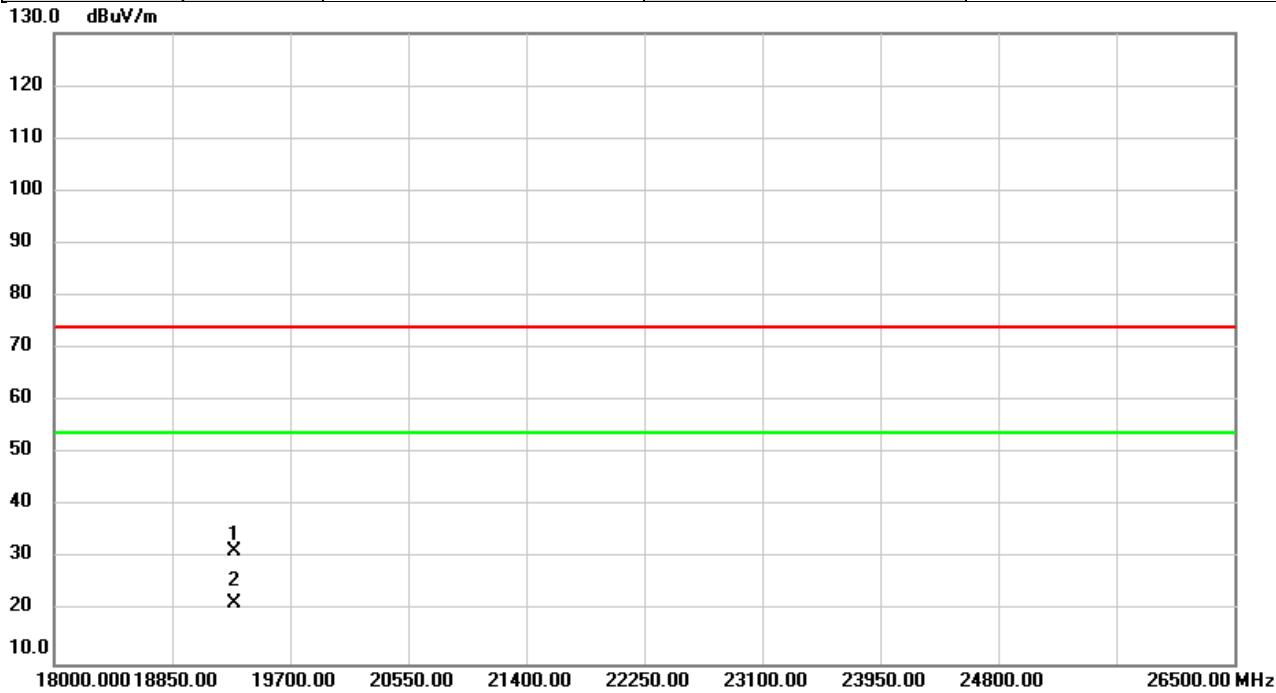


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.000	46.81	-3.76	43.05	74.00	-30.95	peak	
2	*	4924.000	38.37	-3.76	34.61	54.00	-19.39	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

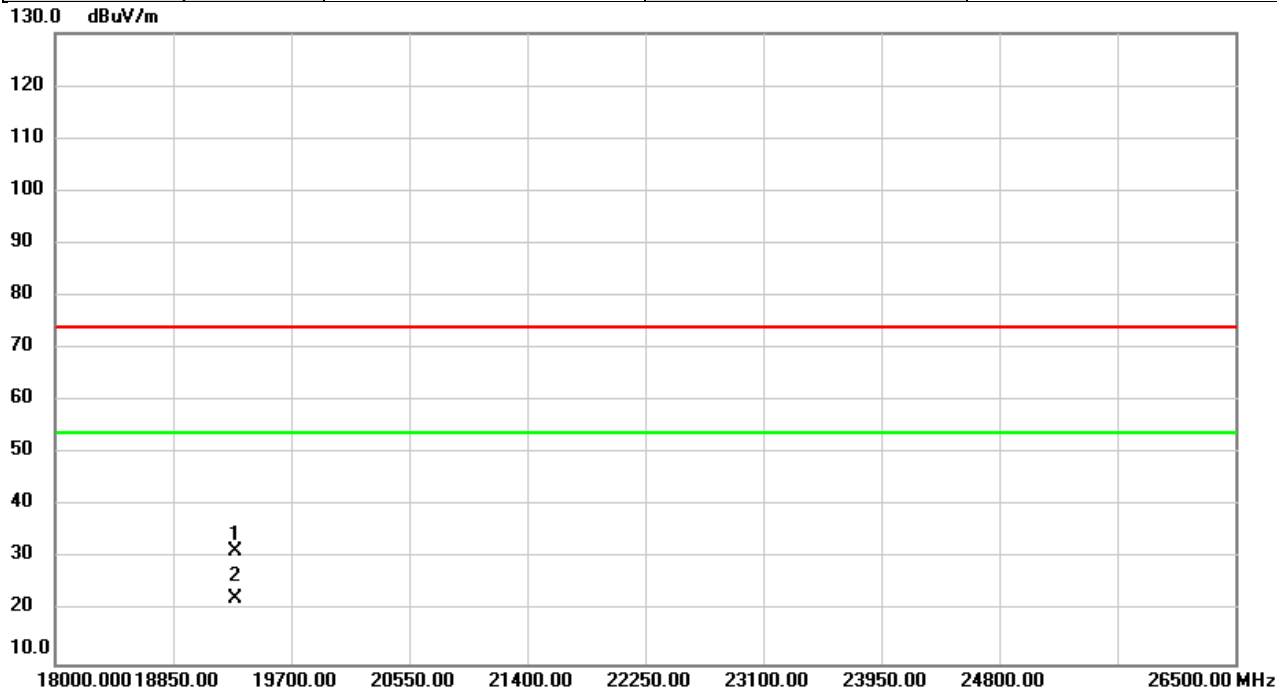
Test Mode	IEEE 802.11b	Test Date	2024/9/10
Test Frequency	2412MHz	Polarization	Vertical
Temp	26°C	Hum.	53%



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		19296.00	32.48	-1.17	31.31	74.00	-42.69	peak	
2	*	19296.00	22.79	-1.17	21.62	54.00	-32.38	AVG	

REMARKS:
 (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	IEEE 802.11b	Test Date	2024/9/10
Test Frequency	2412MHz	Polarization	Horizontal
Temp	26°C	Hum.	53%



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		19296.00	32.74	-1.17	31.57	74.00	-42.43	peak	
2	*	19296.00	23.56	-1.17	22.39	54.00	-31.61	AVG	

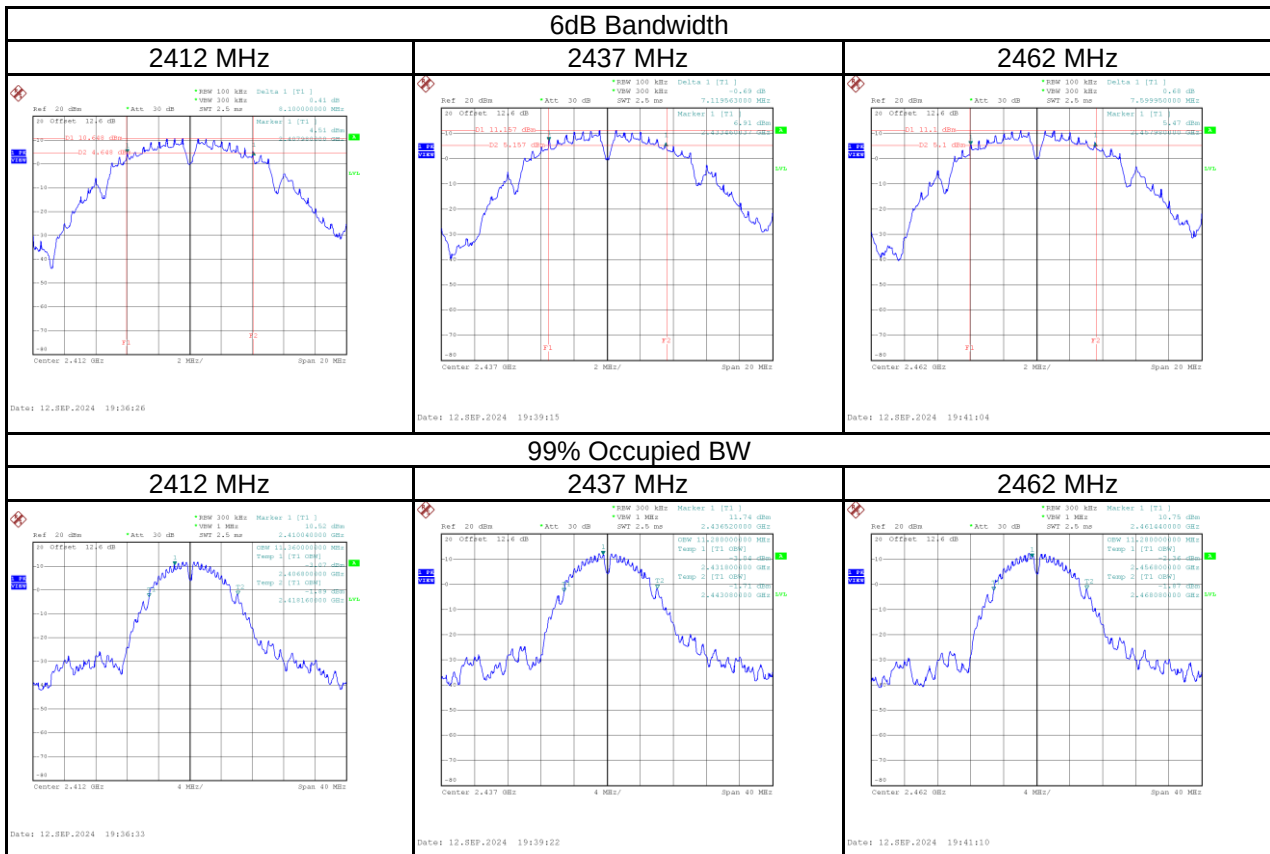
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E BANDWIDTH

Test Mode	IEEE 802.11b_Antenna 1
-----------	------------------------

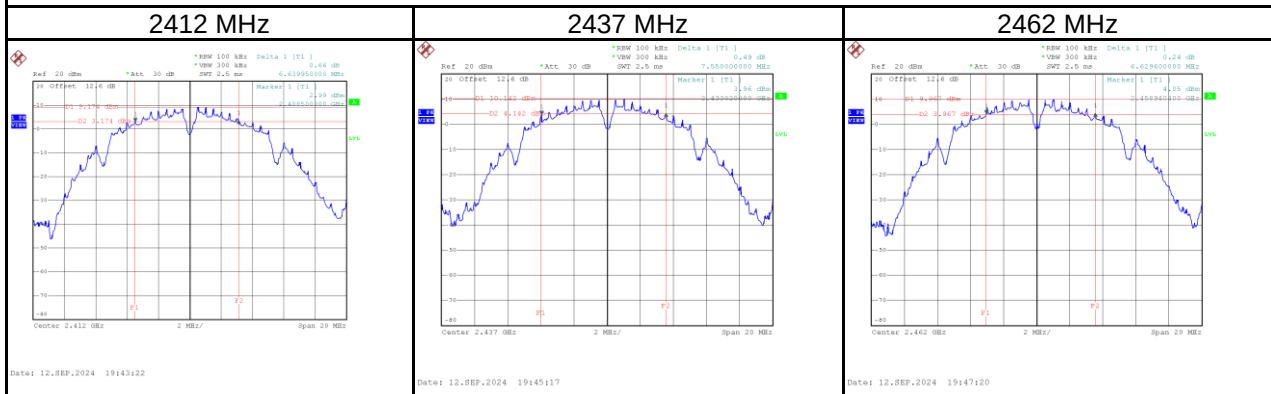
Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	8.10	11.36	≥ 500	Pass
2437	7.12	11.28	≥ 500	Pass
2462	7.60	11.28	≥ 500	Pass



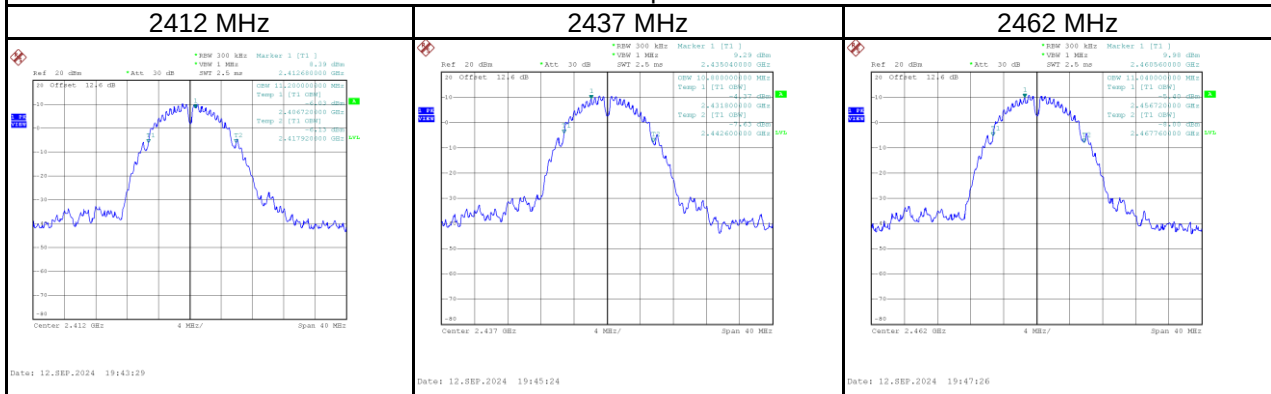
Test Mode	IEEE 802.11b_Antenna 2
-----------	------------------------

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	6.64	11.20	≥ 500	Pass
2437	7.55	10.80	≥ 500	Pass
2462	6.63	11.04	≥ 500	Pass

6dB Bandwidth

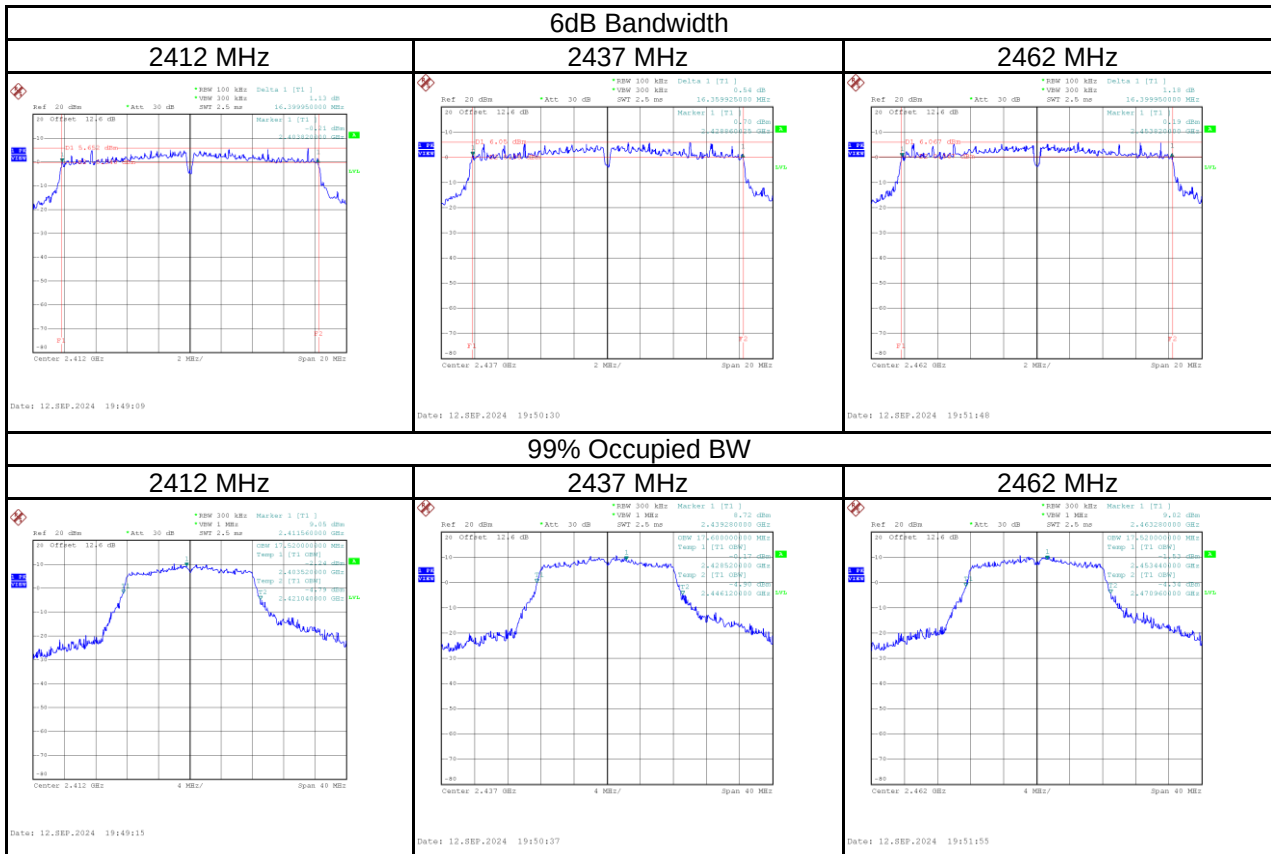


99% Occupied BW



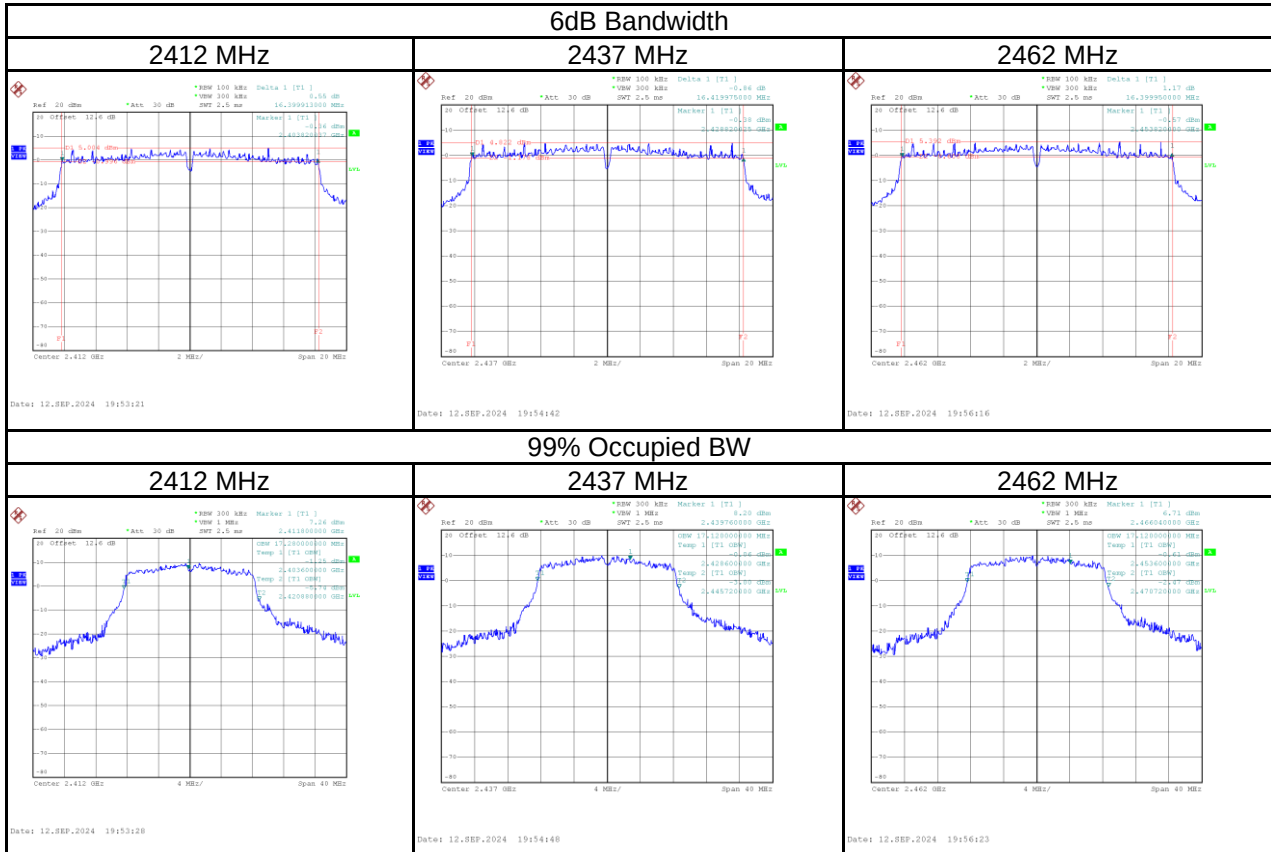
Test Mode	IEEE 802.11g_Antenna 1
-----------	------------------------

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	16.40	17.52	≥ 500	Pass
2437	16.36	17.60	≥ 500	Pass
2462	16.40	17.52	≥ 500	Pass



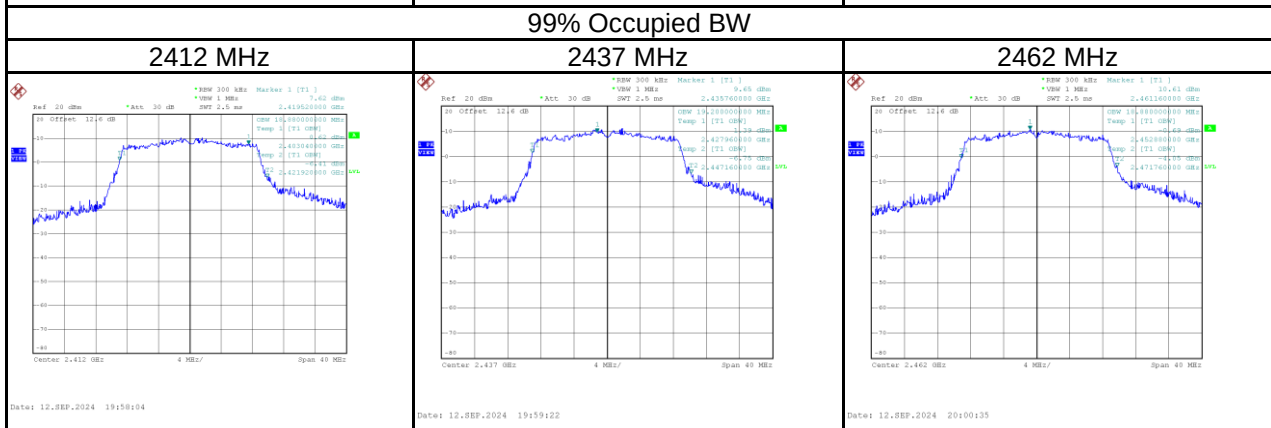
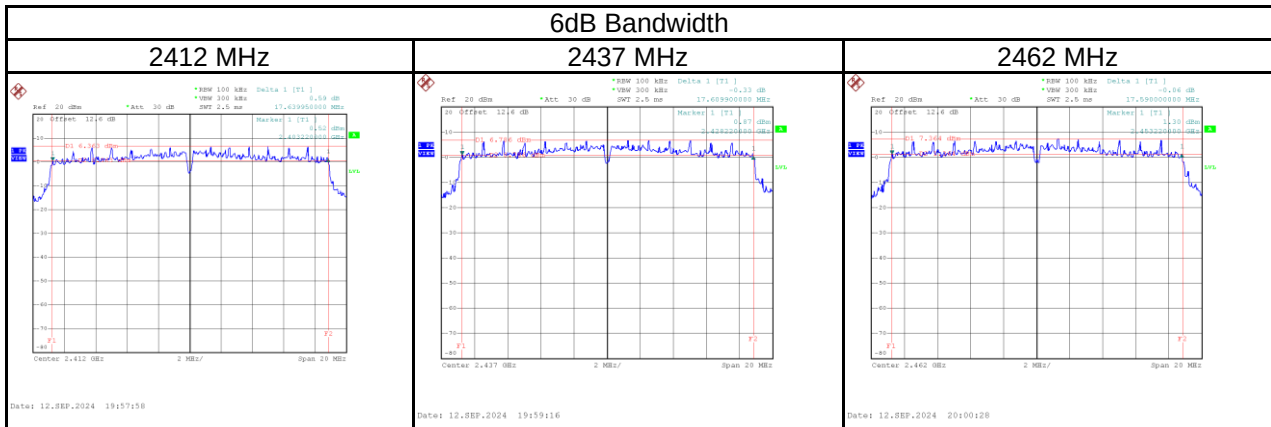
Test Mode	IEEE 802.11g_Antenna 2
-----------	------------------------

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	16.40	17.28	≥ 500	Pass
2437	16.42	17.12	≥ 500	Pass
2462	16.40	17.12	≥ 500	Pass



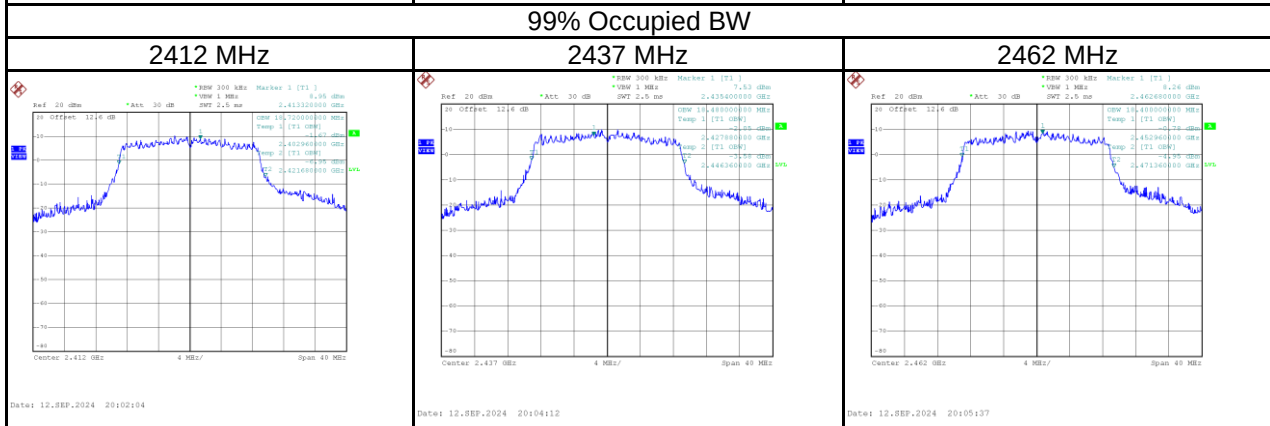
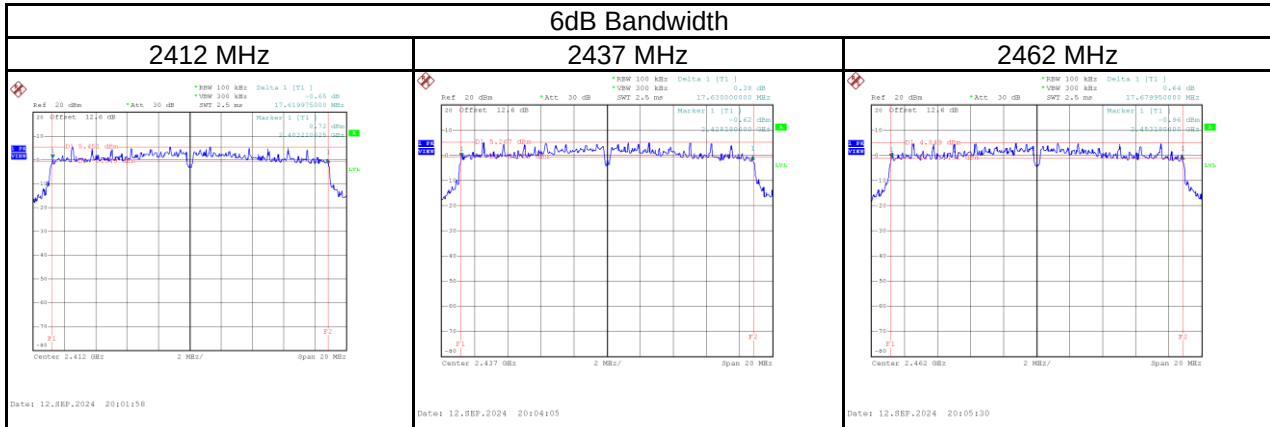
Test Mode	IEEE 802.11n (HT20)_Antenna 1
-----------	-------------------------------

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	17.64	18.88	≥ 500	Pass
2437	17.61	19.20	≥ 500	Pass
2462	17.59	18.88	≥ 500	Pass



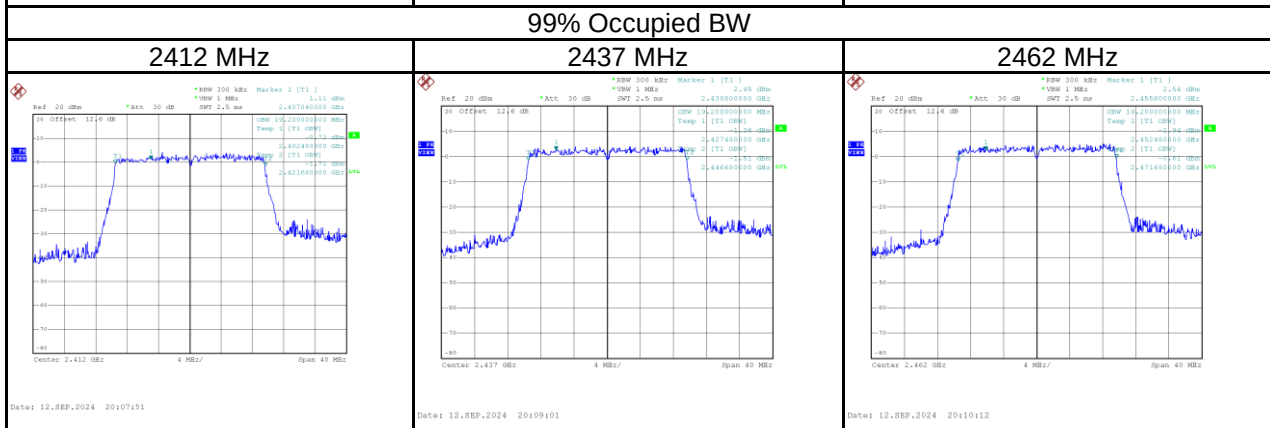
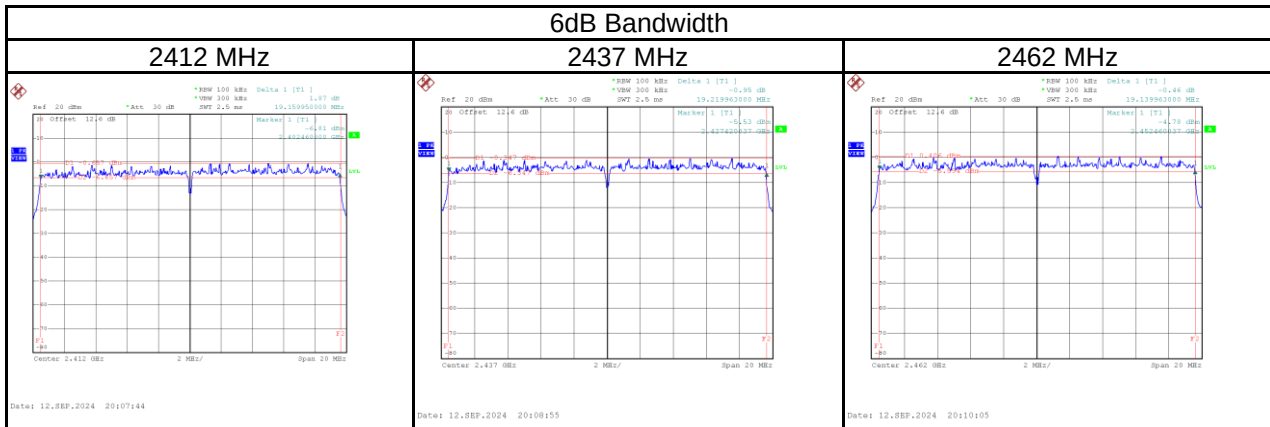
Test Mode	IEEE 802.11n (HT20)_Antenna 2
-----------	-------------------------------

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	17.62	18.72	≥ 500	Pass
2437	17.63	18.48	≥ 500	Pass
2462	17.68	18.40	≥ 500	Pass



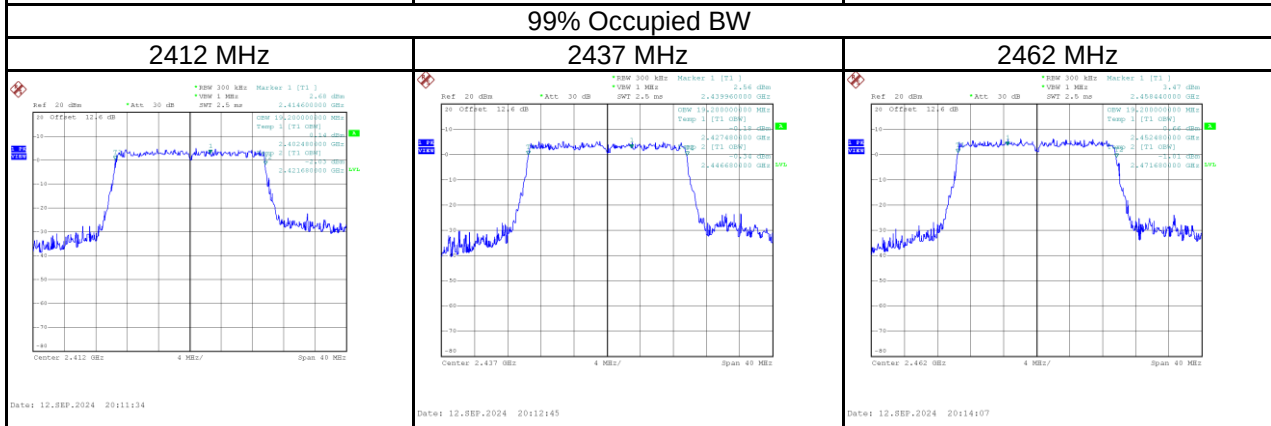
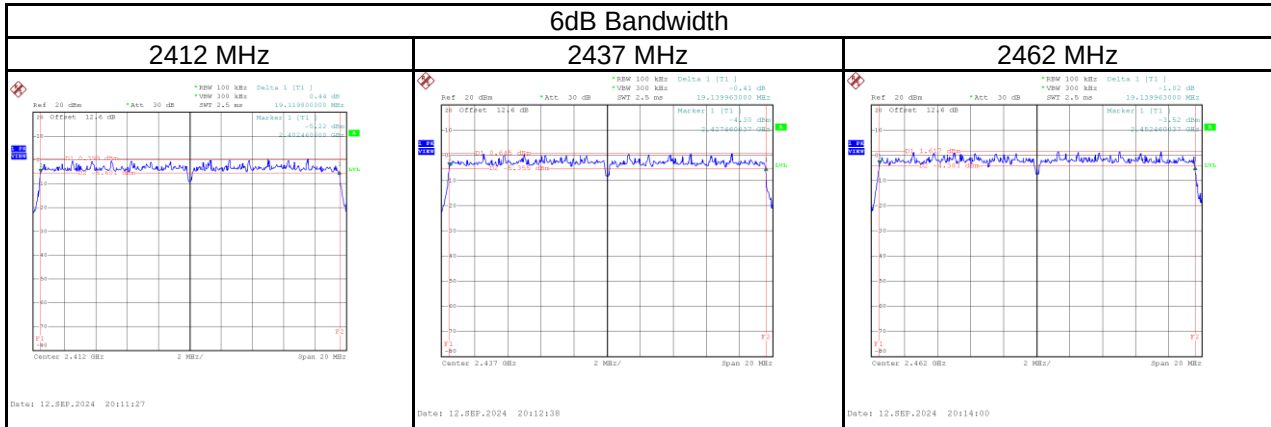
Test Mode	IEEE 802.11ax (HE20)_Antenna 1
-----------	--------------------------------

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	19.16	19.20	≥ 500	Pass
2437	19.22	19.20	≥ 500	Pass
2462	19.14	19.20	≥ 500	Pass



Test Mode	IEEE 802.11ax (HE20)_Antenna 2
-----------	--------------------------------

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	19.12	19.20	≥ 500	Pass
2437	19.14	19.20	≥ 500	Pass
2462	19.14	19.20	≥ 500	Pass



APPENDIX F OUTPUT POWER

Test Mode	IEEE 802.11b_ Antenna 1	Tested Date	2024/9/11~9/13
-----------	-------------------------	-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Test Result
2412	20.15	0.1035	30.00	1.0000	Pass
2437	22.96	0.1977	30.00	1.0000	Pass
2462	20.94	0.1242	30.00	1.0000	Pass

Test Mode	IEEE 802.11b_ Antenna 2	Tested Date	2024/9/11~9/13
-----------	-------------------------	-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Test Result
2412	19.25	0.0841	30.00	1.0000	Pass
2437	21.35	0.1365	30.00	1.0000	Pass
2462	20.52	0.1127	30.00	1.0000	Pass

Test Mode	IEEE 802.11b_ Total	Tested Date	2024/9/11~9/13
-----------	---------------------	-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Test Result
2412	22.73	0.1877	30.00	1.0000	Pass
2437	25.24	0.3342	30.00	1.0000	Pass
2462	23.75	0.2369	30.00	1.0000	Pass

Test Mode	IEEE 802.11g_ Antenna 1	Tested Date	2024/9/11~9/13
-----------	-------------------------	-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Test Result
2412	24.32	0.2704	30.00	1.0000	Pass
2437	24.60	0.2884	30.00	1.0000	Pass
2462	24.34	0.2716	30.00	1.0000	Pass

Test Mode	IEEE 802.11g_ Antenna 2	Tested Date	2024/9/11~9/13
-----------	-------------------------	-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Test Result
2412	23.34	0.2158	30.00	1.0000	Pass
2437	24.05	0.2541	30.00	1.0000	Pass
2462	23.95	0.2483	30.00	1.0000	Pass

Test Mode	IEEE 802.11g_ Total	Tested Date	2024/9/11~9/13
-----------	---------------------	-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Test Result
2412	26.87	0.4862	30.00	1.0000	Pass
2437	27.34	0.5425	30.00	1.0000	Pass
2462	27.16	0.5200	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT20)_ Antenna 1	Tested Date	2024/9/11~9/13
-----------	--------------------------------	-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Test Result
2412	24.35	0.2723	30.00	1.0000	Pass
2437	24.69	0.2944	30.00	1.0000	Pass
2462	24.22	0.2642	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT20)_ Antenna 2	Tested Date	2024/9/11~9/13
-----------	--------------------------------	-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Test Result
2412	23.17	0.2075	30.00	1.0000	Pass
2437	24.12	0.2582	30.00	1.0000	Pass
2462	24.04	0.2535	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT20) _ Total	Tested Date	2024/9/11~9/13
-----------	-----------------------------	-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Test Result
2412	26.81	0.4798	30.00	1.0000	Pass
2437	27.42	0.5527	30.00	1.0000	Pass
2462	27.14	0.5178	30.00	1.0000	Pass

Test Mode	IEEE 802.11ax (HE20)_ Antenna 1	Tested Date	2024/9/11~9/13
-----------	---------------------------------	-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Test Result
2412	23.69	0.2339	30.00	1.0000	Pass
2437	24.17	0.2612	30.00	1.0000	Pass
2462	24.01	0.2518	30.00	1.0000	Pass

Test Mode	IEEE 802.11ax (HE20)_ Antenna 1	Tested Date	2024/9/11~9/13
-----------	---------------------------------	-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Test Result
2412	23.08	0.2032	30.00	1.0000	Pass
2437	23.67	0.2328	30.00	1.0000	Pass
2462	23.64	0.2312	30.00	1.0000	Pass

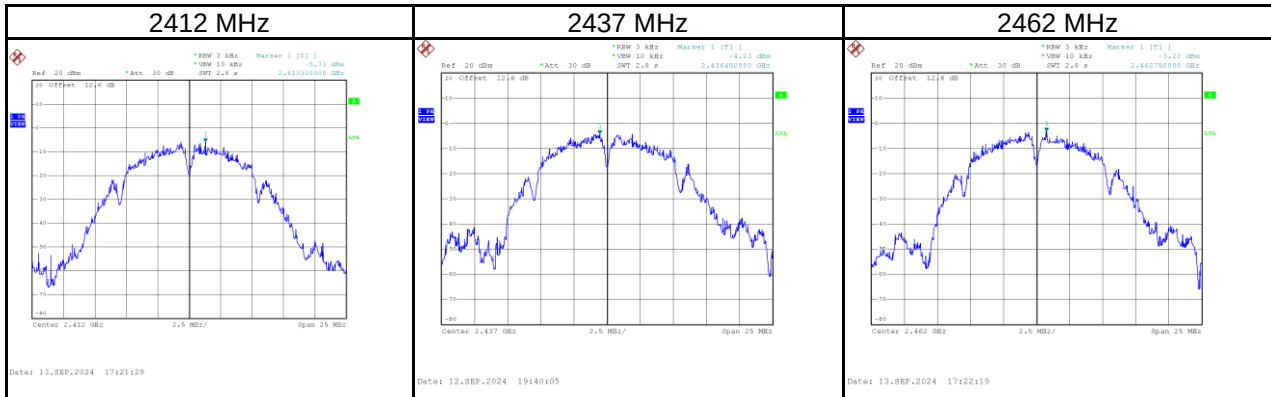
Test Mode	IEEE 802.11ax (HE20) _ Total	Tested Date	2024/9/11~9/13
-----------	------------------------------	-------------	----------------

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Test Result
2412	26.41	0.4371	30.00	1.0000	Pass
2437	26.94	0.4940	30.00	1.0000	Pass
2462	26.84	0.4830	30.00	1.0000	Pass

APPENDIX G POWER SPECTRAL DENSITY

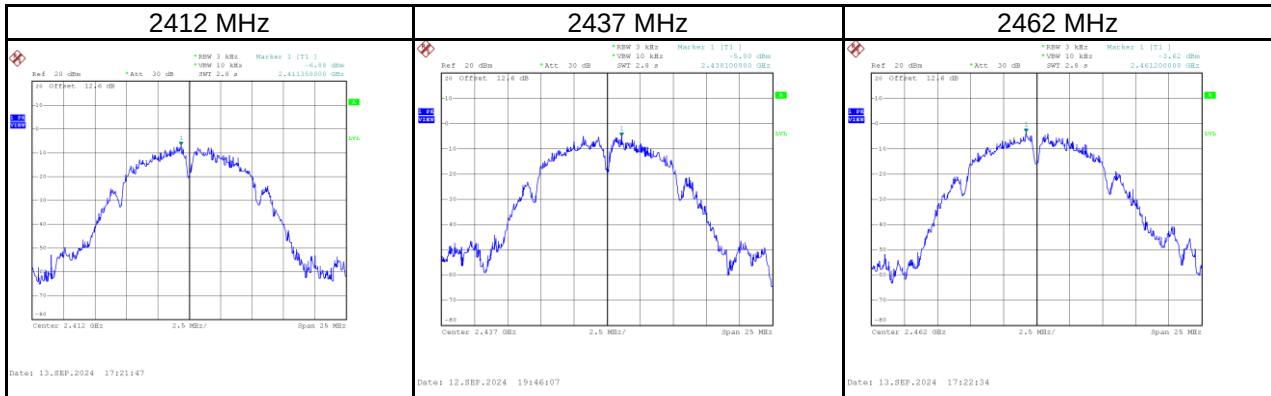
Test Mode	IEEE 802.11b_Antenna 1
-----------	------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-5.73	8.00	Pass
2437	-4.23	8.00	Pass
2462	-3.20	8.00	Pass



Test Mode	IEEE 802.11b_Antenna 2
-----------	------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-6.88	8.00	Pass
2437	-5.00	8.00	Pass
2462	-3.62	8.00	Pass

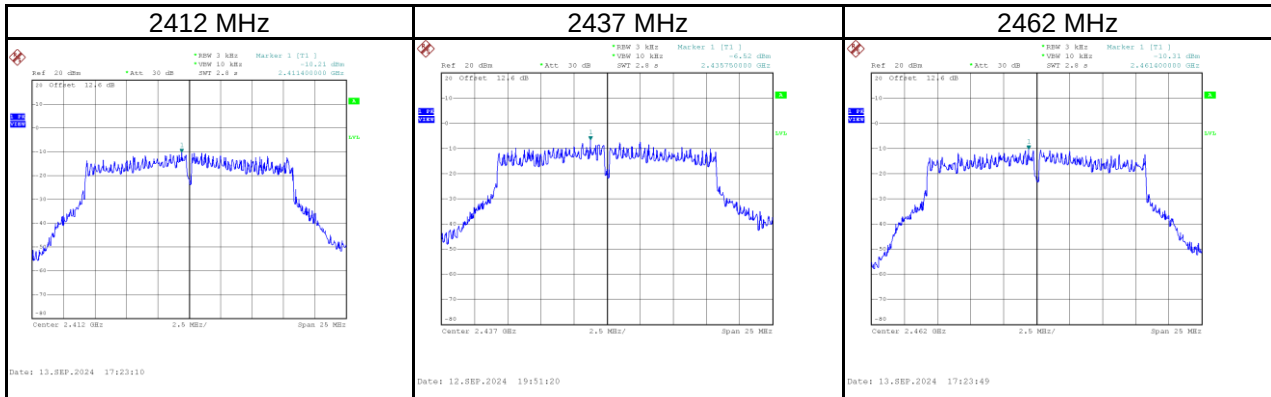


Test Mode	IEEE 802.11b_Total
-----------	--------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-3.26	8.00	Pass
2437	-1.59	8.00	Pass
2462	-0.39	8.00	Pass

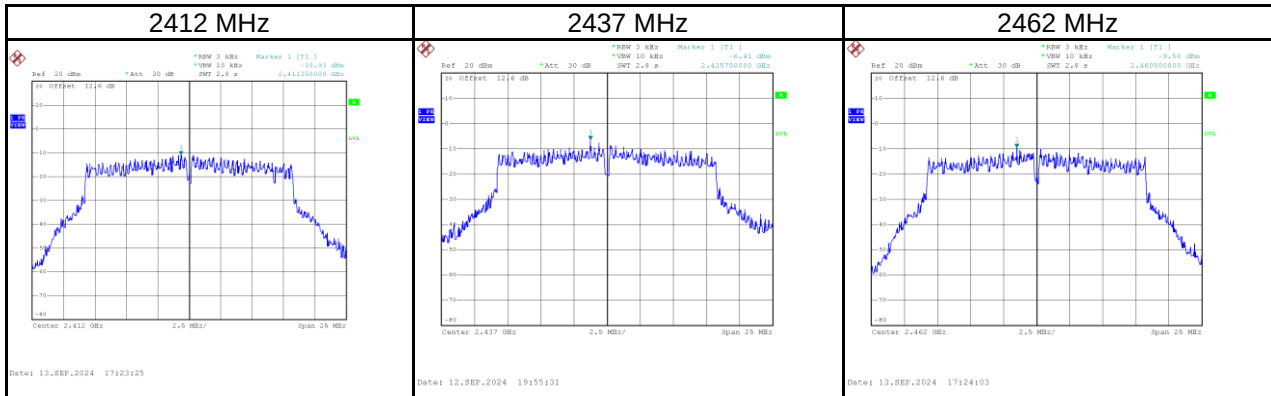
Test Mode	IEEE 802.11g_Antenna 1
-----------	------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-10.21	8.00	Pass
2437	-6.52	8.00	Pass
2462	-10.31	8.00	Pass



Test Mode	IEEE 802.11g_Antenna 2
-----------	------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-10.93	8.00	Pass
2437	-6.41	8.00	Pass
2462	-9.50	8.00	Pass

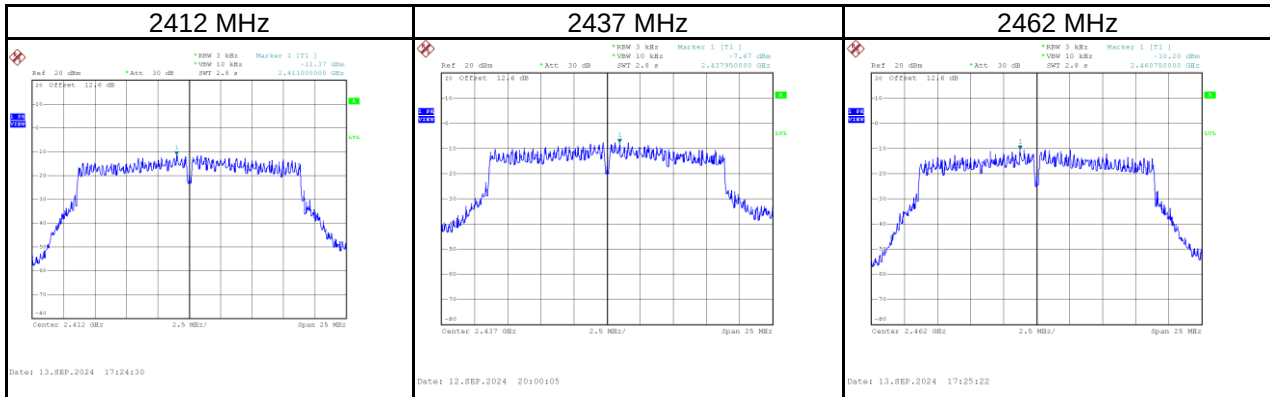


Test Mode	IEEE 802.11g_Total
-----------	--------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-7.54	8.00	Pass
2437	-3.45	8.00	Pass
2462	-6.88	8.00	Pass

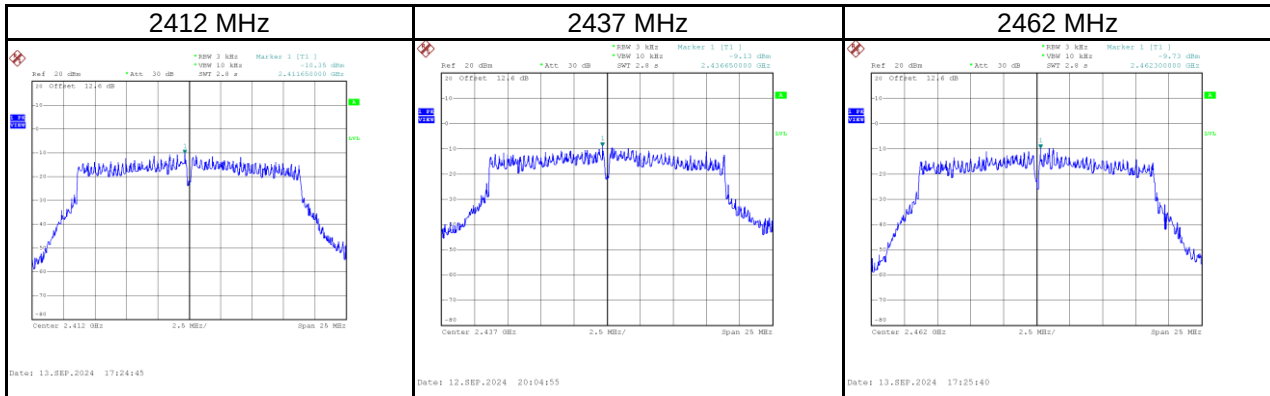
Test Mode	IEEE 802.11n (HT20)_Antenna 1
-----------	-------------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-11.37	8.00	Pass
2437	-7.67	8.00	Pass
2462	-10.20	8.00	Pass



Test Mode	IEEE 802.11n (HT20)_Antenna 2
-----------	-------------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-10.35	8.00	Pass
2437	-9.13	8.00	Pass
2462	-9.73	8.00	Pass

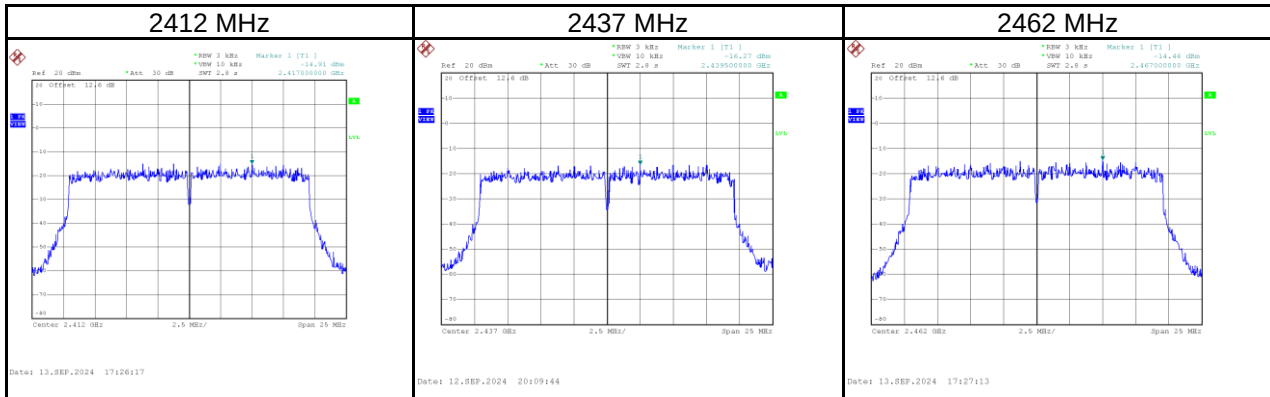


Test Mode	IEEE 802.11n (HT20)_Total
-----------	---------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-7.82	8.00	Pass
2437	-5.33	8.00	Pass
2462	-6.95	8.00	Pass

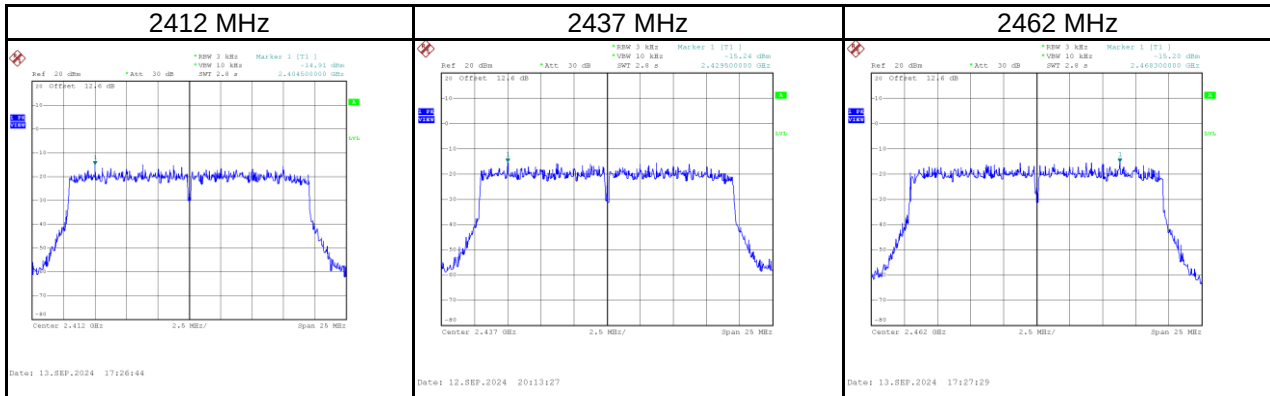
Test Mode	IEEE 802.11ax (HE20)_Antenna 1
-----------	--------------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-14.91	8.00	Pass
2437	-16.27	8.00	Pass
2462	-14.46	8.00	Pass



Test Mode	IEEE 802.11ax (HE20)_Antenna 2
-----------	--------------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-14.91	8.00	Pass
2437	-15.24	8.00	Pass
2462	-15.20	8.00	Pass



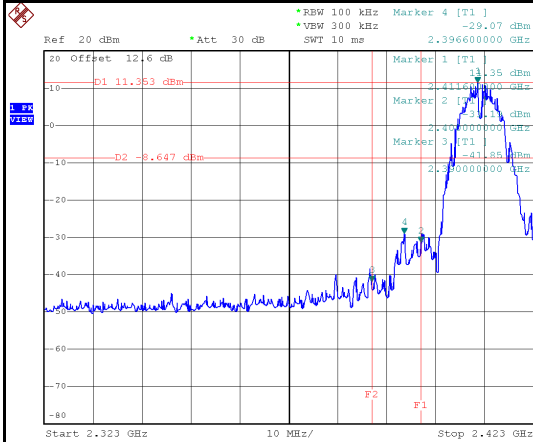
Test Mode	IEEE 802.11ax (HE20)_Total
-----------	----------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-11.90	8.00	Pass
2437	-12.71	8.00	Pass
2462	-11.80	8.00	Pass

APPENDIX H ANTENNA CONDUCTED SPURIOUS EMISSIONS

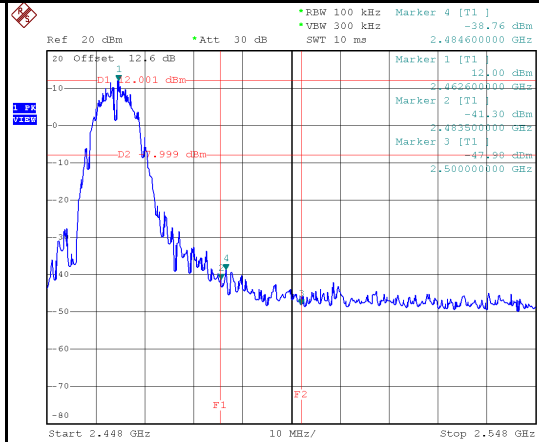
Test Mode IEEE 802.11b_Antenna 1

Low Bandedge-2412 MHz



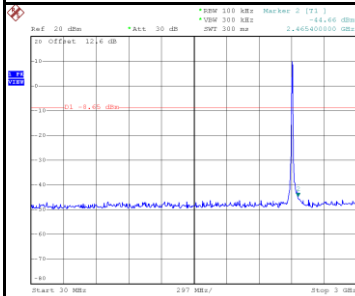
Date: 12.SEP.2024 19:36:41

High Bandedge-2462 MHz

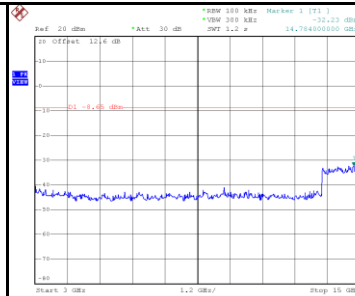


Date: 12.SEP.2024 19:41:17

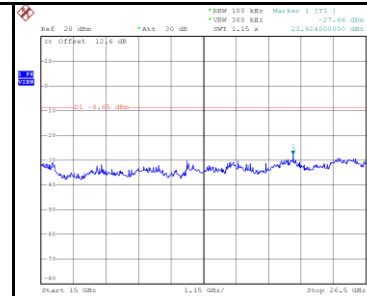
2412 MHz-10th Harmonics



Date: 12.SEP.2024 19:36:54

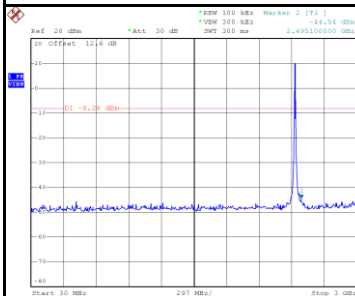


Date: 12.SEP.2024 19:37:01

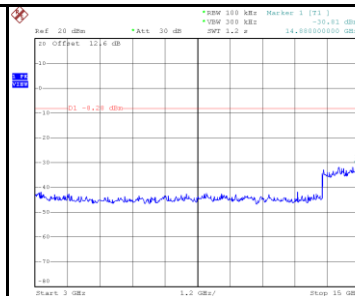


Date: 12.SEP.2024 19:37:08

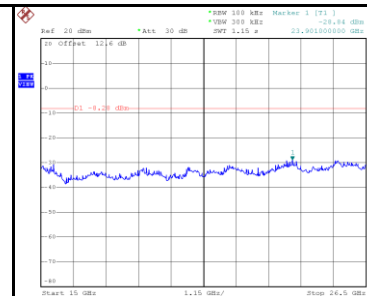
2437 MHz-10th Harmonics



Date: 12.SEP.2024 19:39:42

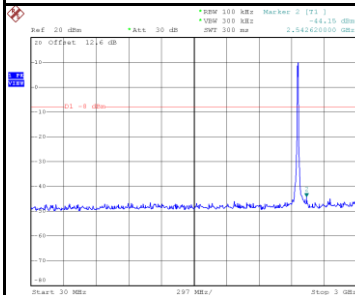


Date: 12.SEP.2024 19:39:49

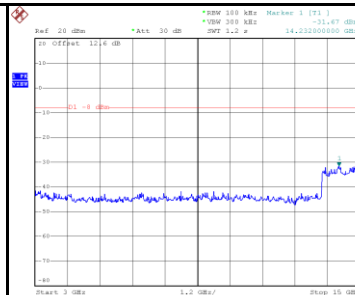


Date: 12.SEP.2024 19:39:56

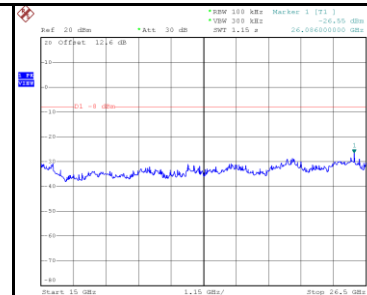
2462 MHz-10th Harmonics



Date: 12.SEP.2024 19:41:30



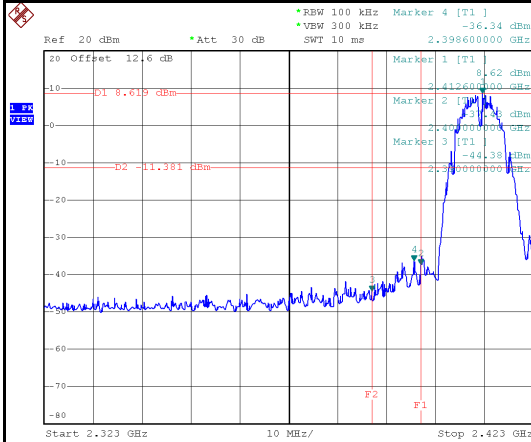
Date: 12.SEP.2024 19:41:37



Date: 12.SEP.2024 19:41:45

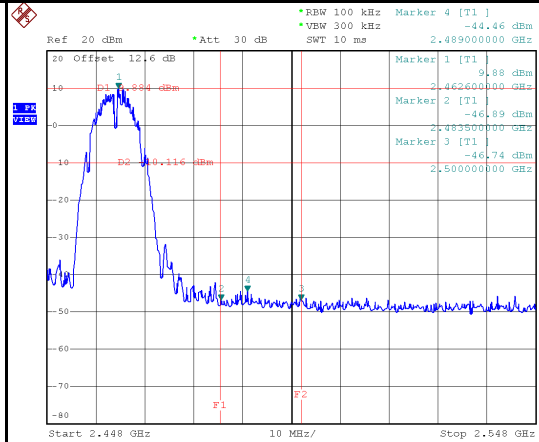
Test Mode IEEE 802.11b_Antenna 2

Low Bandedge-2412 MHz



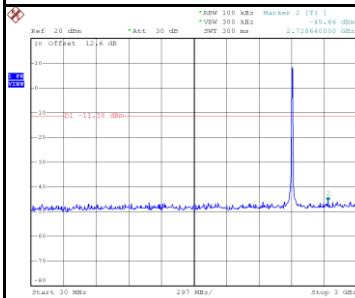
Date: 12.SEP.2024 19:43:36

High Bandedge-2462 MHz

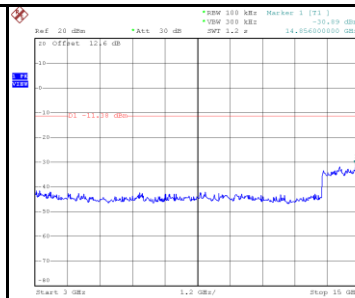


Date: 12.SEP.2024 19:47:34

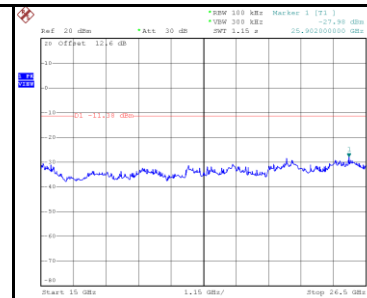
2412 MHz-10th Harmonics



Date: 12.SEP.2024 19:43:49

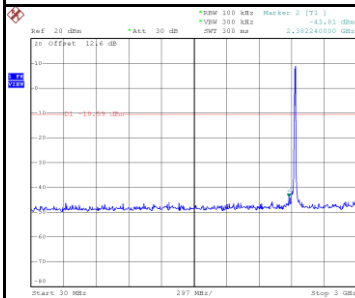


Date: 12.SEP.2024 19:43:56

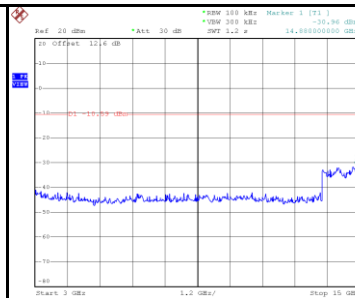


Date: 12.SEP.2024 19:44:03

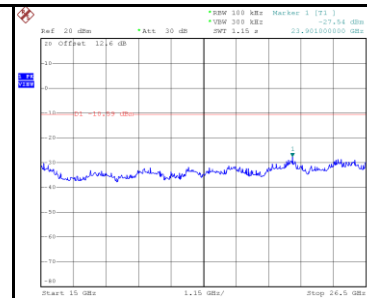
2437 MHz-10th Harmonics



Date: 12.SEP.2024 19:45:44

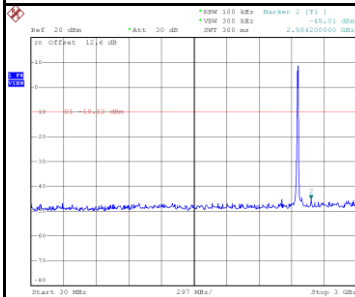


Date: 12.SEP.2024 19:45:51

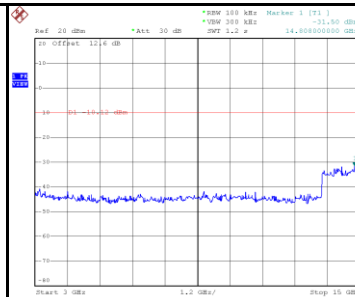


Date: 12.SEP.2024 19:45:58

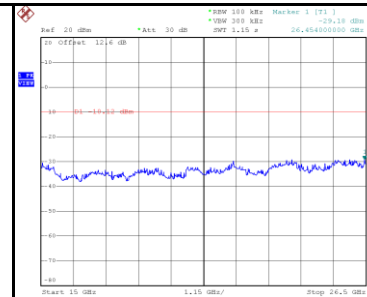
2462 MHz-10th Harmonics



Date: 12.SEP.2024 19:47:47



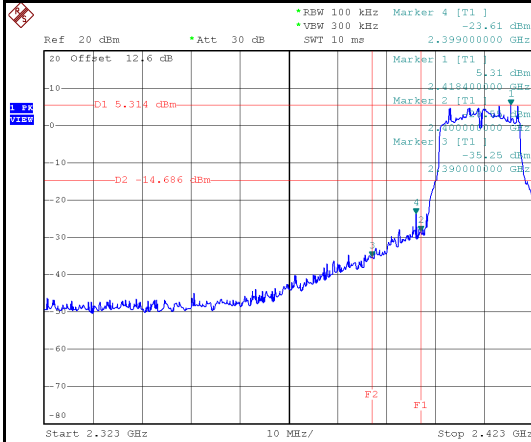
Date: 12.SEP.2024 19:47:54



Date: 12.SEP.2024 19:48:00

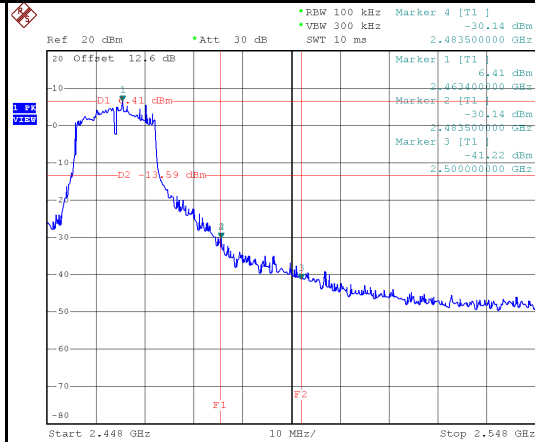
Test Mode IEEE 802.11g_Antenna 1

Low Bandedge-2412 MHz



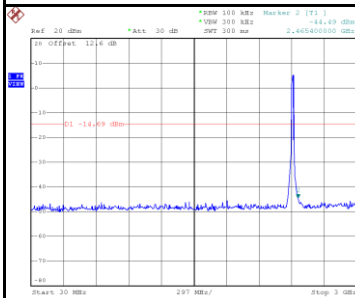
Date: 12.SEP.2024 19:49:23

High Bandedge-2462 MHz

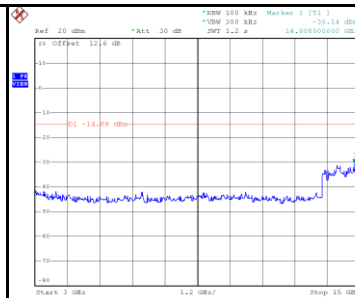


Date: 12.SEP.2024 19:52:02

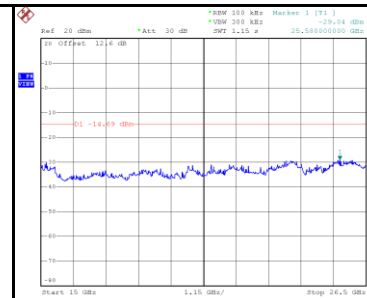
2412 MHz-10th Harmonics



Date: 12.SEP.2024 19:49:35

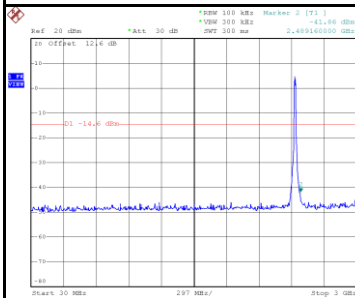


Date: 12.SEP.2024 19:49:42

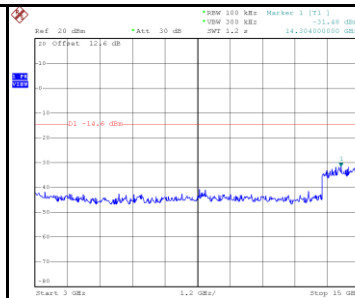


Date: 12.SEP.2024 19:49:49

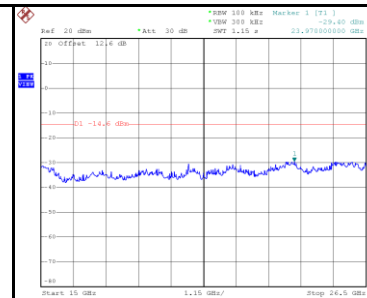
2437 MHz-10th Harmonics



Date: 12.SEP.2024 19:50:58

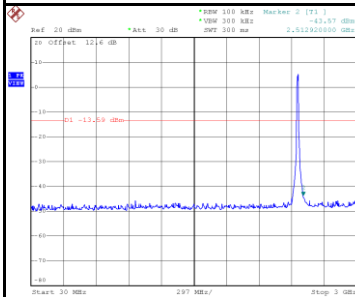


Date: 12.SEP.2024 19:51:05

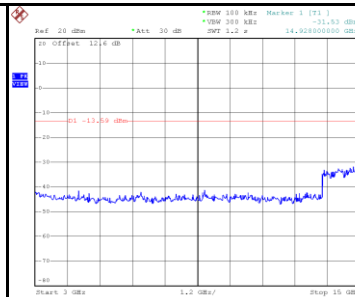


Date: 12.SEP.2024 19:51:12

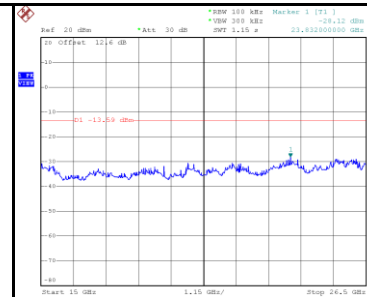
2462 MHz-10th Harmonics



Date: 12.SEP.2024 19:52:15



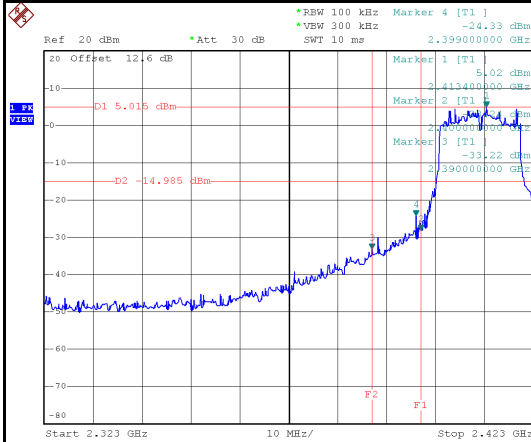
Date: 12.SEP.2024 19:52:22



Date: 12.SEP.2024 19:52:29

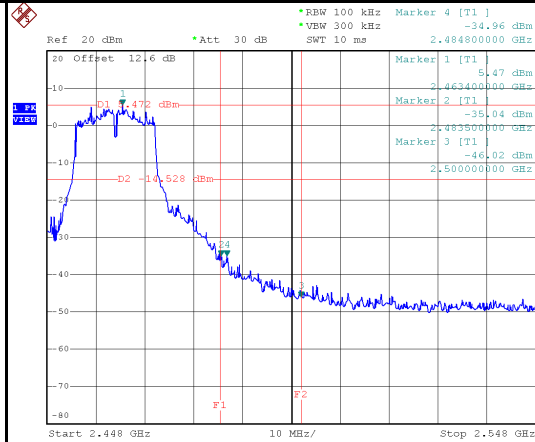
Test Mode IEEE 802.11g_Antenna 2

Low Bandedge-2412 MHz



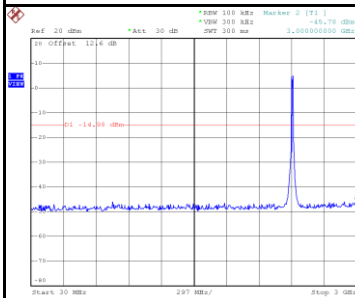
Date: 12.SEP.2024 19:53:35

High Bandedge-2462 MHz

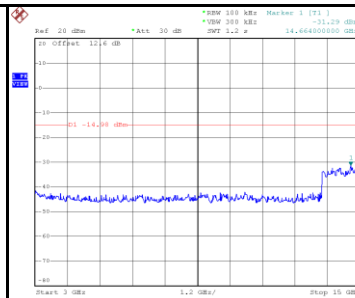


Date: 12.SEP.2024 19:56:30

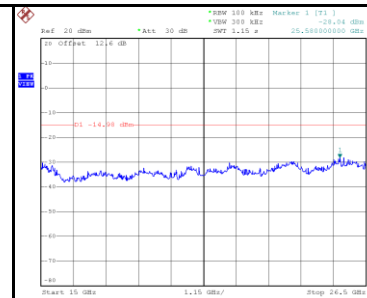
2412 MHz-10th Harmonics



Date: 12.SEP.2024 19:53:48

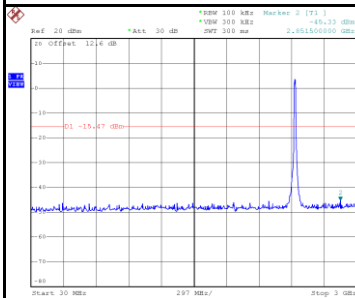


Date: 12.SEP.2024 19:53:55

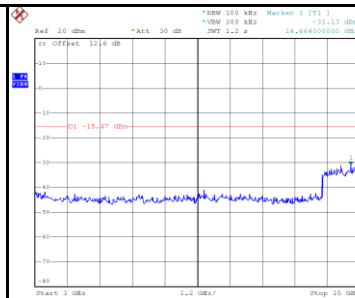


Date: 12.SEP.2024 19:54:02

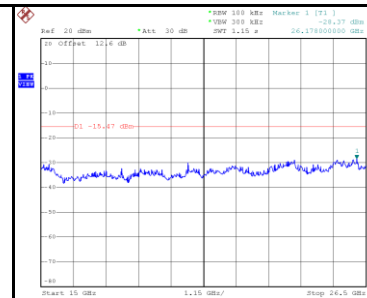
2437 MHz-10th Harmonics



Date: 12.SEP.2024 19:55:09

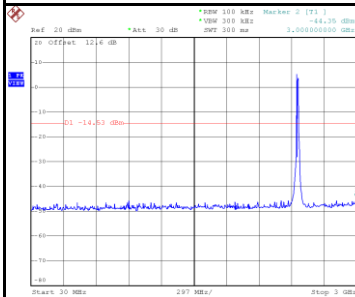


Date: 12.SEP.2024 19:55:16

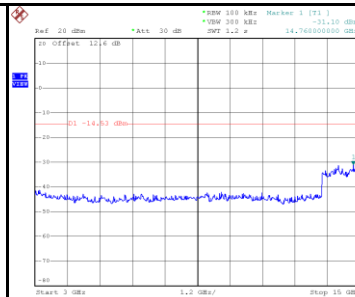


Date: 12.SEP.2024 19:55:23

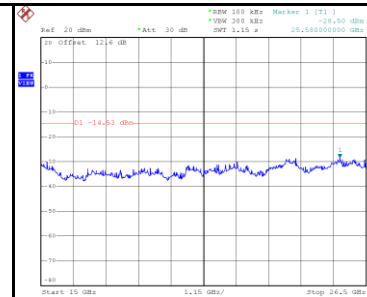
2462 MHz-10th Harmonics



Date: 12.SEP.2024 19:56:43



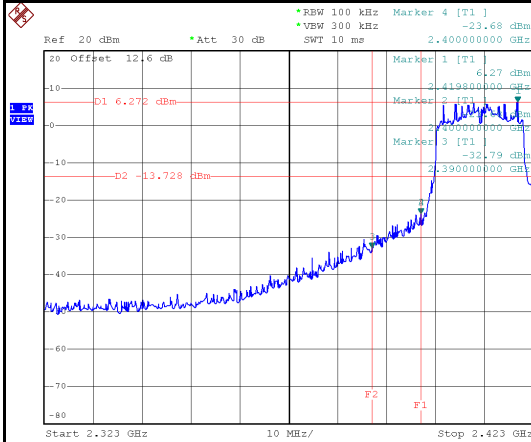
Date: 12.SEP.2024 19:56:50



Date: 12.SEP.2024 19:56:57

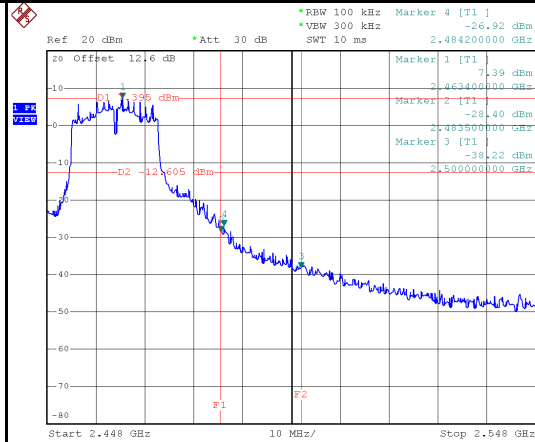
Test Mode IEEE 802.11n (HT20)_Antenna 1

Low Bandedge-2412 MHz



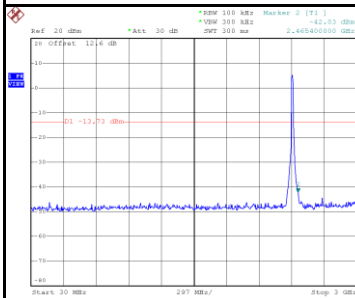
Date: 12.SEP.2024 19:58:11

High Bandedge-2462 MHz

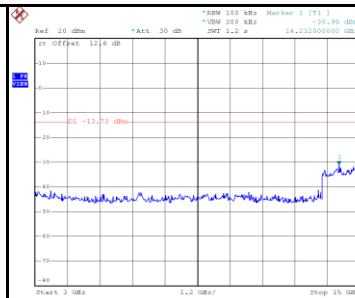


Date: 12.SEP.2024 20:00:42

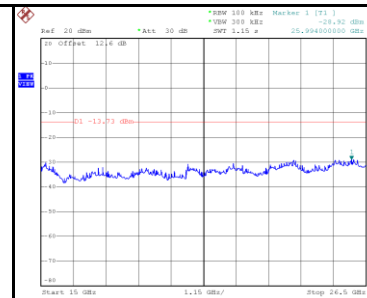
2412 MHz-10th Harmonics



Date: 12.SEP.2024 19:58:24

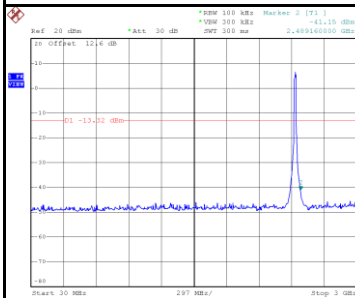


Date: 12.SEP.2024 19:59:31

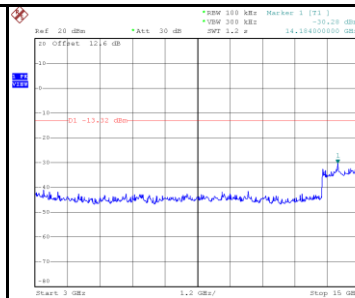


Date: 12.SEP.2024 19:59:38

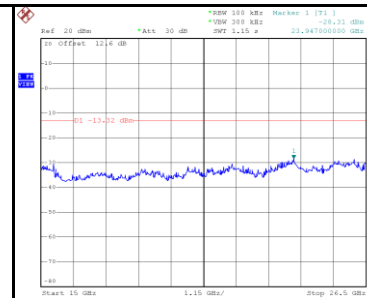
2437 MHz-10th Harmonics



Date: 12.SEP.2024 19:59:43

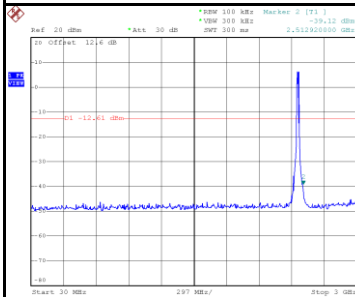


Date: 12.SEP.2024 19:59:50

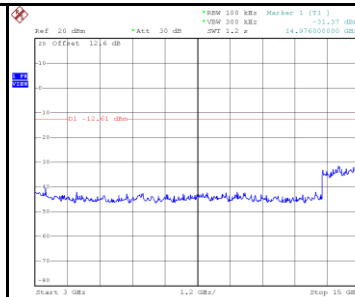


Date: 12.SEP.2024 19:59:57

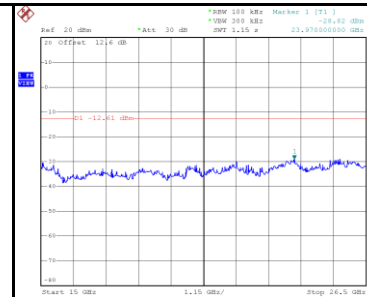
2462 MHz-10th Harmonics



Date: 12.SEP.2024 20:00:55



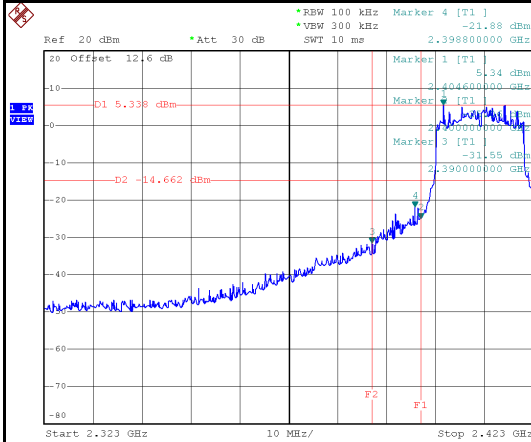
Date: 12.SEP.2024 20:01:02



Date: 12.SEP.2024 20:01:09

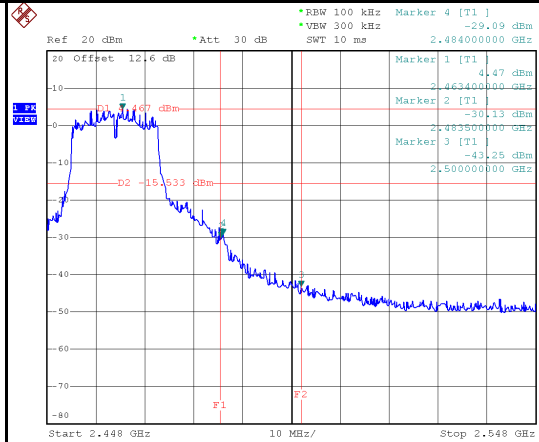
Test Mode IEEE 802.11n (HT20)_Antenna 2

Low Bandedge-2412 MHz



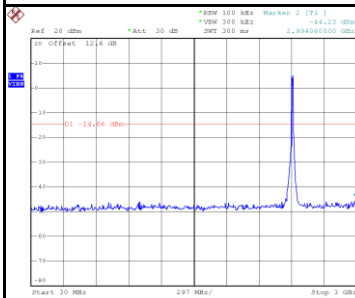
Date: 12.SEP.2024 20:02:11

High Bandedge-2462 MHz

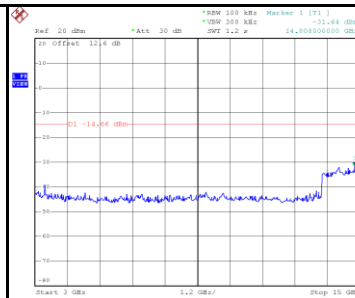


Date: 12.SEP.2024 20:05:44

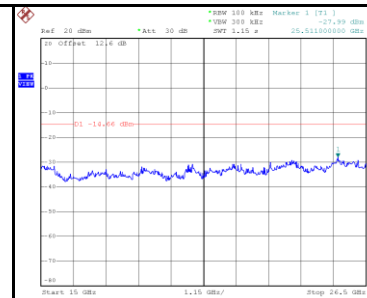
2412 MHz-10th Harmonics



Date: 12.SEP.2024 20:02:24

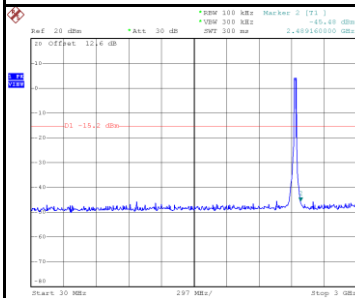


Date: 12.SEP.2024 20:02:31

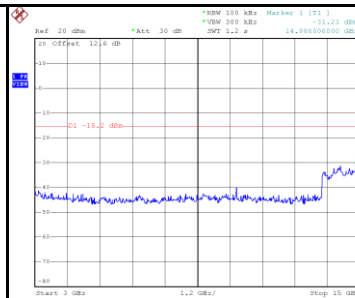


Date: 12.SEP.2024 20:02:38

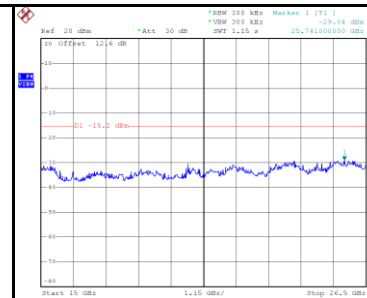
2437 MHz-10th Harmonics



Date: 12.SEP.2024 20:04:32

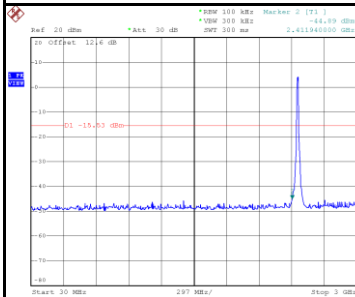


Date: 12.SEP.2024 20:04:39

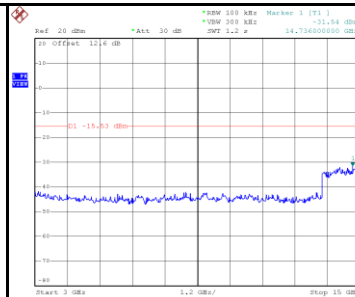


Date: 12.SEP.2024 20:04:46

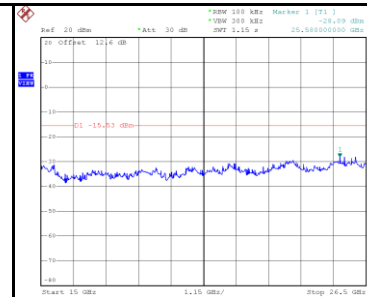
2462 MHz-10th Harmonics



Date: 12.SEP.2024 20:05:57



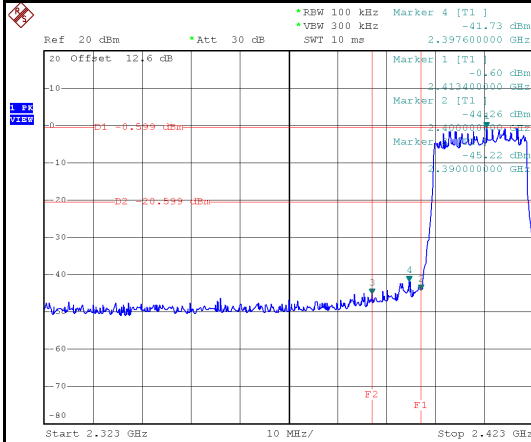
Date: 12.SEP.2024 20:06:04



Date: 12.SEP.2024 20:06:11

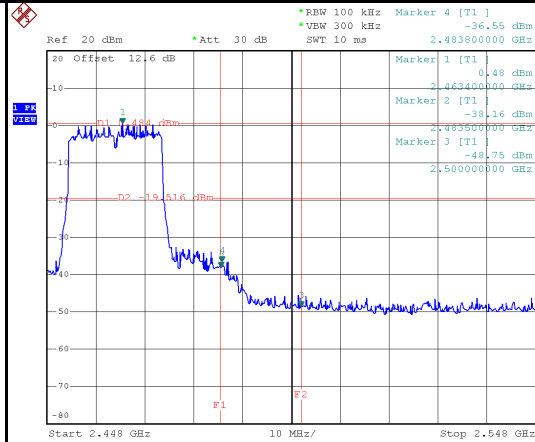
Test Mode IEEE 802.11ax (HE20)_Antenna 1

Low Bandedge-2412 MHz



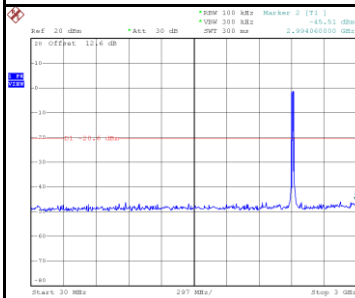
Date: 12.SEP.2024 20:07:58

High Bandedge-2462 MHz

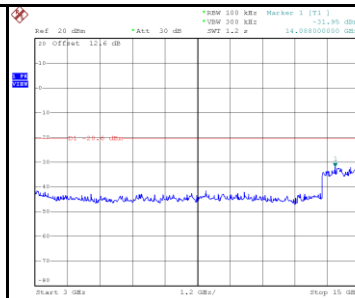


Date: 12.SEP.2024 20:10:19

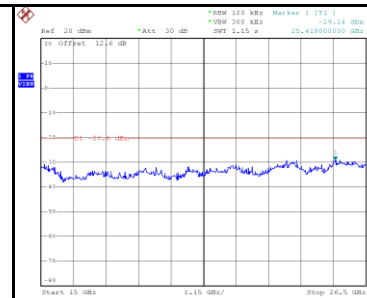
2412 MHz-10th Harmonics



Date: 12.SEP.2024 20:08:11

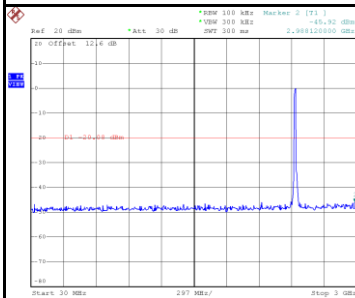


Date: 12.SEP.2024 20:08:18

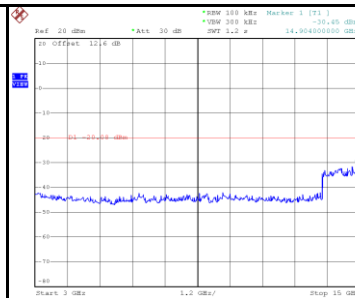


Date: 12.SEP.2024 20:08:25

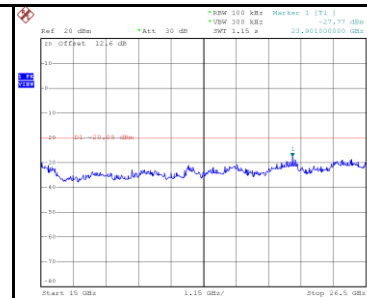
2437 MHz-10th Harmonics



Date: 12.SEP.2024 20:09:22

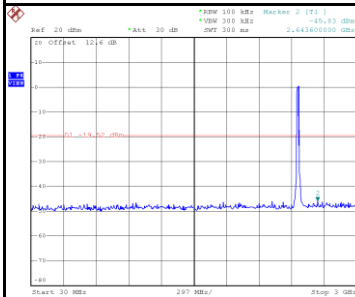


Date: 12.SEP.2024 20:09:29

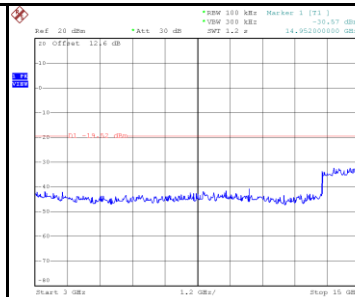


Date: 12.SEP.2024 20:09:36

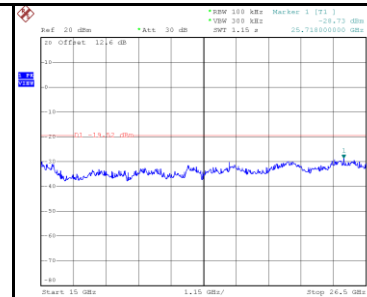
2462 MHz-10th Harmonics



Date: 12.SEP.2024 20:10:32

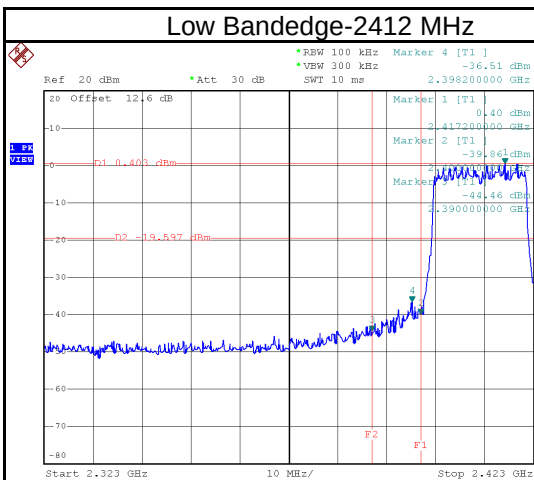


Date: 12.SEP.2024 20:10:39

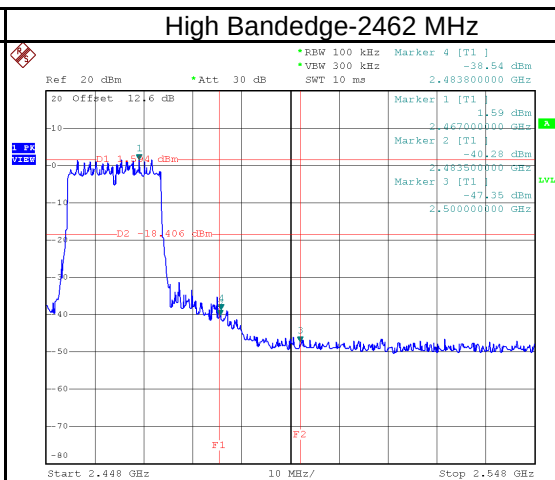


Date: 12.SEP.2024 20:10:46

Test Mode	IEEE 802.11ax (HE20) Antenna 2
-----------	--------------------------------

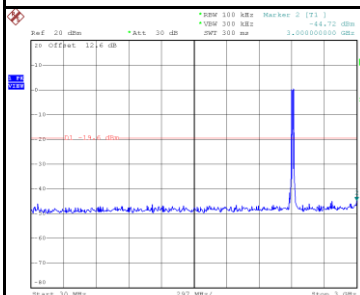


Date: 12.SEP.2024 20:11:41

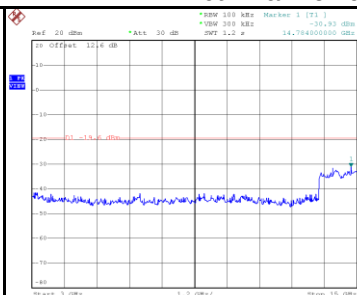


Date: 12.SEP.2024 20:14:14

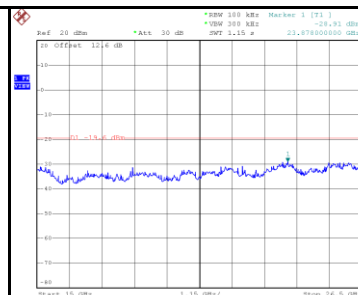
2412 MHz-10th Harmonics



Date: 12.8BP.2024 20:11:54

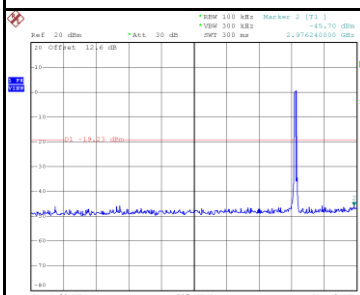


Date: 12.SEP.2024 20:12:01

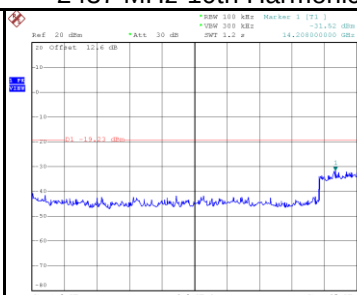


Date: 12.SEP.2024 20:12:08

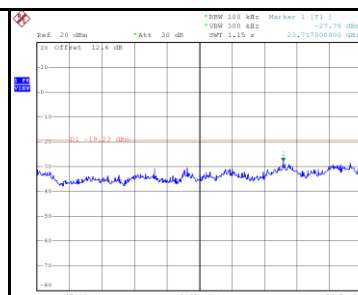
2437 MHz-10th Harmonics



Date: 12.8BP.2024 20:13:05

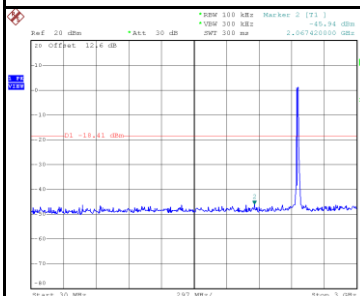


Date: 12.SEP.2024 20:13:12

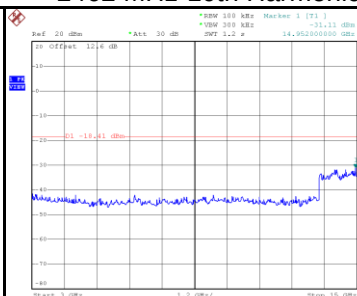


Date: 12.SEP.2024 20:13:19

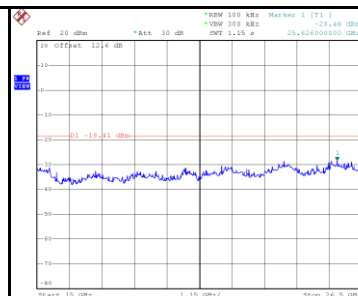
2462 MHz-10th Harmonics



Date: 12.8BP.2024 20:14:27



Date: 12.SEP.2024 20:14:34



Date: 12.SEP.2024 20:14:41

End of Test Report