

FCC Radio Test Report

FCC ID: 2AX7S-ATC53R

Report No. : BTL-FCCP-3-2410T032
Equipment : Tablet PC
Model Name : ATC53R
Brand Name : AlMobile
Applicant : AlMobile Co., Ltd.
Address : 6F, No. 166, Section 4, Chengde Road, Shilin District, Taipei City, 11167 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 : 2024/10/4
Date of Test : 2024/10/24 ~ 2024/11/19
Issued Date : 2024/12/18

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

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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**.

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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.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2410T032	R00	Original Report.	2024/12/18	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. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)

☒ C05 ☐ CB08 ☐ CB11 ☐ SR10 ☒ SR11

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)
C05	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
	1 GHz ~ 6 GHz	5.21
	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

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

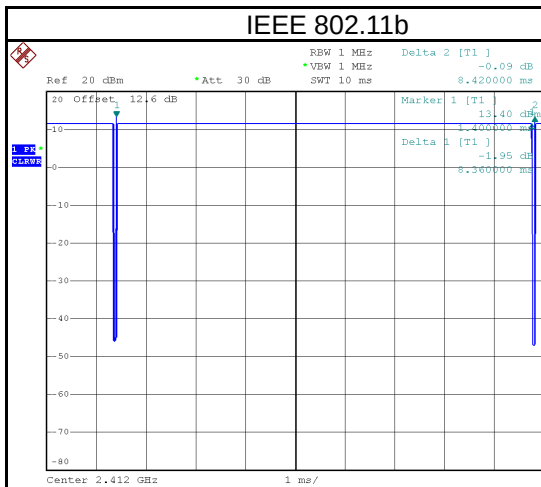
Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	22 °C, 55 %	AC 120V	Ken Lan
Radiated emissions below 1 GHz	Refer to data	AC 120V	Mark Wang
Radiated emissions above 1 GHz	Refer to data	AC 120V	Mark Wang
Bandwidth	23 °C, 61 %	AC 120V	Easton Tsai
Output Power	23 °C, 61 %	AC 120V	Easton Tsai
Power Spectral Density	23 °C, 61 %	AC 120V	Easton Tsai
Antenna conducted Spurious Emission	23 °C, 61 %	AC 120V	Easton Tsai

1.4 DUTY CYCLE

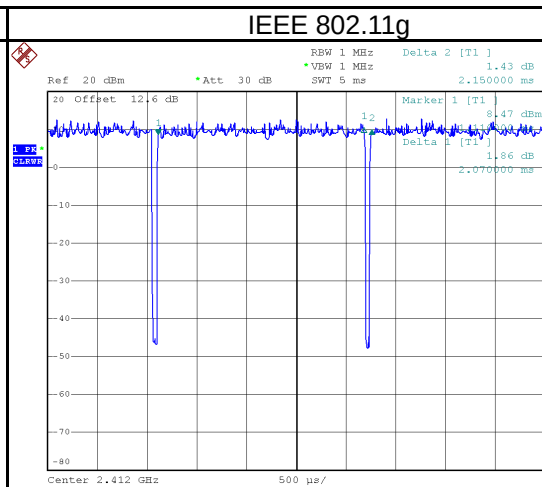
If duty cycle is $\geq 98\%$, duty factor is not required.

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

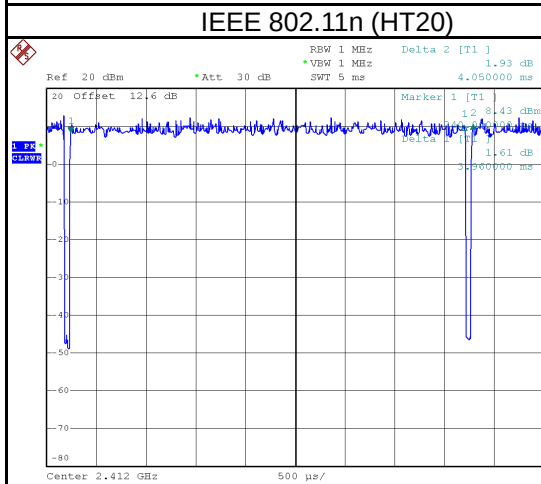
Remark	Delta 1			Delta 2	On Time/Period	10 log(1/Duty Cycle)
Mode	ON (ms)	Numbers (ON)	On Time (B) (ms)	Period (ON+OFF) (ms)	Duty Cycle (%)	Duty Factor (dB)
IEEE 802.11b	8.360	1	8.360	8.420	99.29%	0.03
IEEE 802.11g	2.070	1	2.070	2.150	96.28%	0.16
IEEE 802.11n (HT20)	3.960	1	3.960	4.050	97.78%	0.10
IEEE 802.11n (HT40)	3.940	1	3.940	4.040	97.52%	0.11
IEEE 802.11ax (HE20)	3.960	1	3.960	4.060	97.54%	0.11
IEEE 802.11ax (HE40)	3.950	1	3.950	4.040	97.77%	0.10



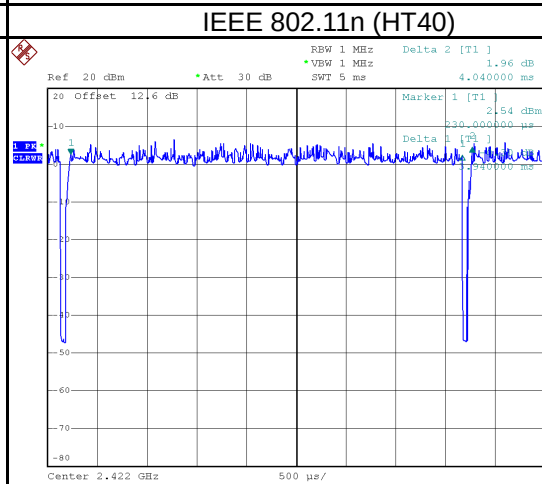
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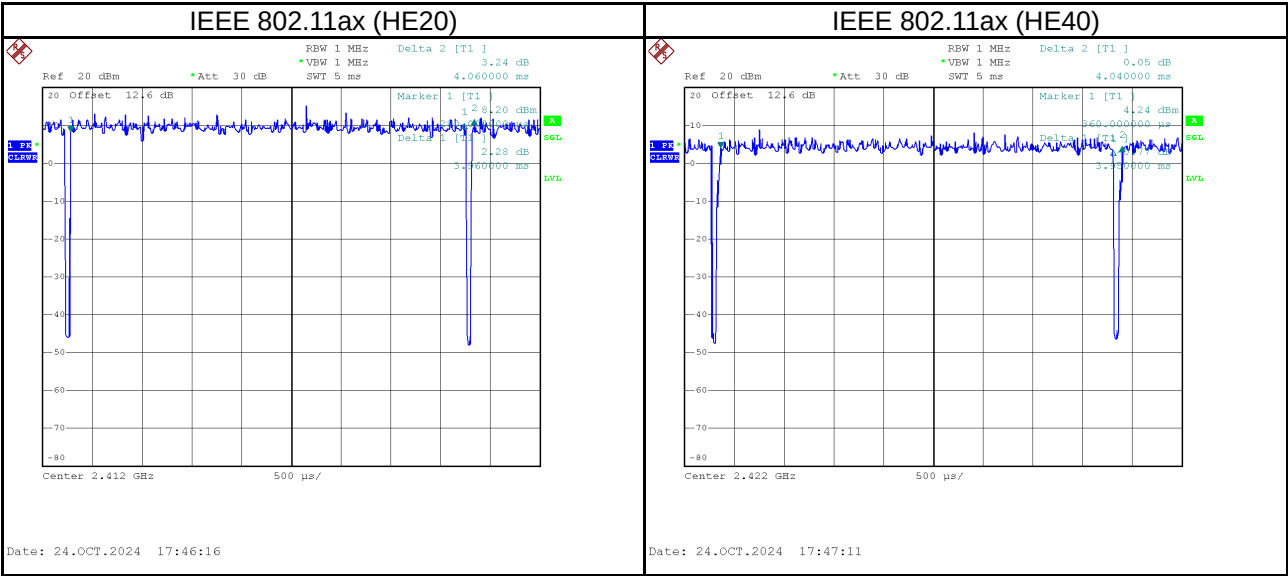
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2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Tablet PC
Model Name	ATC53R
Brand Name	AIMobile 
Model Difference	N/A
Power Source	DC Voltage supplied from AC/DC adapter.
Power Rating	EUT: DC 20V, 3.25A For PA-1650-58 I/P: 100-240V~, 1.6A, 50-60Hz O/P: 20.0Vdc, 3.25A For FSP065M-DUA I/P: 100-240V, 50-60Hz, 1.8A-1.0A O/P: 20.0Vdc, 3.25A
Products Covered	2 * Adapter: (1) LITEON / PA-1650-58 (2) FSP / FSP065M-DUA 1 * Docking(Optional): AIMobile / AIMDS 1 * DC Jack to Type C Dongle(Optional): Polywell Enterprise / DC5525
WLAN Card	Intel/AX210NGW
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 573.6 Mbps
Output Power Max. - SISO	IEEE 802.11b: 20.53 dBm (0.1130 W) IEEE 802.11g: 21.44 dBm (0.1393 W)
Output Power Max. - MIMO	IEEE 802.11n (HT20): 24.09 dBm (0.2565 W) IEEE 802.11n (HT40): 25.51 dBm (0.3554 W) IEEE 802.11ax (HE20): 24.50 dBm (0.2816 W) IEEE 802.11ax (HE40): 25.80 dBm (0.3803 W)
Operating Software	DRTU Version 07302.23.80.0
Test Model	ATC53R
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) The EUT includes two SKUs:

Keypart		SKU1	SKU2
WLAN Card	Intel/AX210NGW	V	V
NFC	Wistron NeWeb Corporation/XRAV-1	V	V
AI Accelerator (Optional)	Hailo		V
Barcode Scanner (Optional)	ZEBRA		V
Battery	AIMobile/ATC-63E-BAT	V	V
Adapter	FSP Group Inc/ FSP065M-DUA	V	V
	LITE-ON/ PA-1650-58	V	V

SKU 2 is used for final testing and collecting test data included in this report.

(3) Channel List:

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

(4) Table for Filed Antenna:

Antenna	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
Main	AWAN	AYP6Y-100421	PIFA	IPEX	1.60
Aux	AWAN	AYP6Y-100422	PIFA	IPEX	2.22

NOTE:

- The EUT incorporates a CDD function. Physically, the EUT provides two completed transmitters and receivers (2T2R).
- For Power Spectral Density

$$\text{Directional Gain} = 10 \cdot \log\{[10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}]^2 / N_{\text{ANT}}\} = 4.93 \text{ dBi} < 6 \text{ dBi}.$$
The Direction gain is less than 6 dBi, so power spectral density limits will not be reduced.
- For Output Power
For $N_{\text{ANT}} = 2 < 5$,
 $\text{Direction gain} = G_{\text{ANT}} + 0 = 2.22 + 0 = 2.22 \text{ dBi}.$
The Direction gain is less than 6 dBi, so output power limits will not be reduced.

(5) 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.

(6) Operating Mode and Antenna Configuration

TX Mode		1 TX	2 TX
Operating Mode	IEEE 802.11b	V (Mian or Aux)	-
	IEEE 802.11g	V (Mian or Aux)	-
	IEEE 802.11n (HT20)	-	V (Mian + Aux)
	IEEE 802.11n (HT40)	-	V (Mian + Aux)
	IEEE 802.11ax (HE20)	-	V (Mian + Aux)
	IEEE 802.11ax (HE40)	-	V (Mian + Aux)

2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Transmitter Radiated Emissions (below 1GHz)	TX Mode_ IEEE 802.11b	01	-
Transmitter Radiated Emissions (above 1GHz)	TX Mode_ IEEE 802.11b	01/11	Bandedge
	TX Mode_ IEEE 802.11g		
	TX Mode_ IEEE 802.11n (HT20)		
	TX Mode_ IEEE 802.11ax (HE20)		
	TX Mode_ IEEE 802.11n (HT40)	03/09	
	TX Mode_ IEEE 802.11ax (HE40)		
Transmitter Radiated Emissions (above 1GHz)	TX Mode_ IEEE 802.11b	01/06/11	Harmonic
	TX Mode_ IEEE 802.11g		
	TX Mode_ IEEE 802.11n (HT20)		
	TX Mode_ IEEE 802.11ax (HE20)		
	TX Mode_ IEEE 802.11n (HT40)	03/06/09	
	TX Mode_ IEEE 802.11ax (HE40)		
Transmitter Radiated Emissions (above 18GHz)	TX Mode_ IEEE 802.11b	01	-
Bandwidth & Output Power & Power Spectral Density & Antenna conducted Spurious Emission	TX Mode_ IEEE 802.11b	01/06/11	-
	TX Mode_ IEEE 802.11g		
	TX Mode_ IEEE 802.11n (HT20)		
	TX Mode_ IEEE 802.11ax (HE20)		
	TX Mode_ IEEE 802.11n (HT40)	03/06/09	
	TX Mode_ IEEE 802.11ax (HE40)		

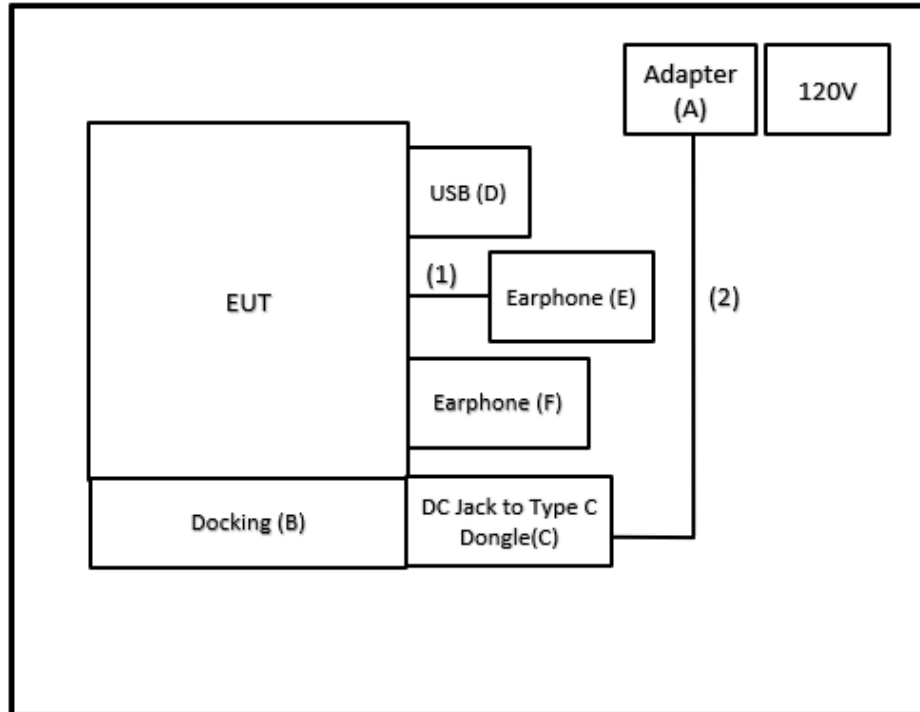
NOTE:

- (1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Vertical) is recorded.
- (2) All X, Y and Z axes are evaluated, but only the worst case (Z 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.
- (4) All adapter are evaluated, the Adapter (LITEON /PA-1650-58) is the worst and recorded as below test data.

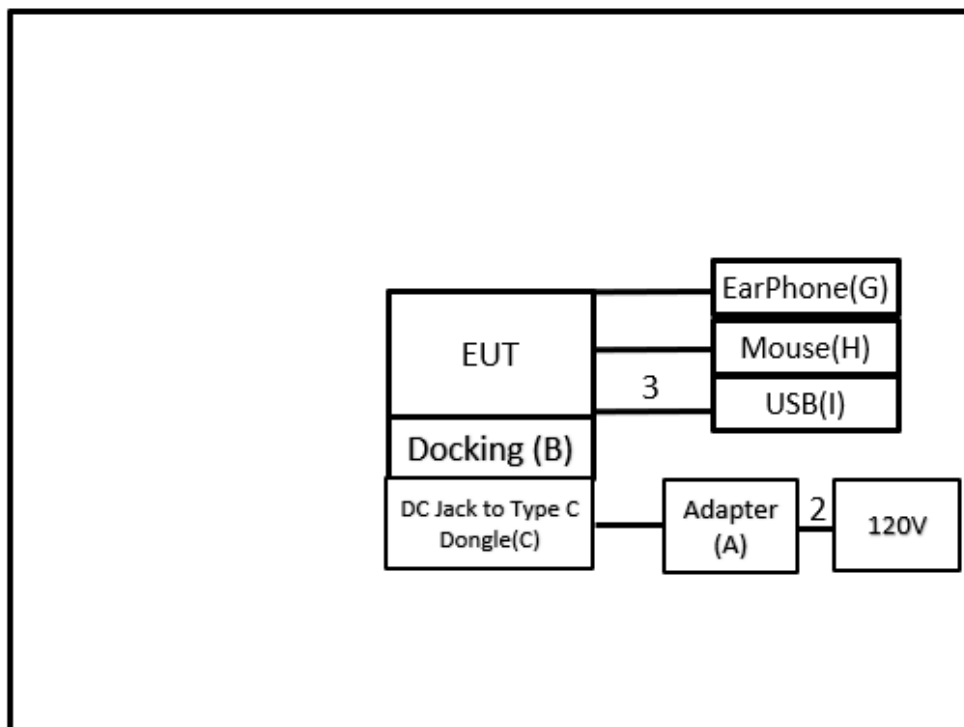
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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

AC power line conducted emissions



Radiated Emissions



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Adapter	LITEON	PA-1650-58	N/A	Supplied by test requester
B	Docking	AIMobile	AIMDS	N/A	Supplied by test requester
C	DC Jack to Type C Dongle	Polywell Enterprise	DC5525	N/A	Supplied by test requester
D	USB	N/A	N/A	N/A	Furnished by test lab.
E	Earphone	N/A	N/A	N/A	Furnished by test lab.
F	Earphone	N/A	N/A	N/A	Furnished by test lab.
G	Earphone	N/A	N/A	N/A	Furnished by test lab.
H	Mouse	Logitech	B100	N/A	Furnished by test lab.
I	USB	ADATA	UV150	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	1m	Type C to Type C	Furnished by test lab.
2	N/A	N/A	1.5m	Power cord	Supplied by test requester
3	N/A	N/A	0.1m	USB-C to USB 3.0 CABLE	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.

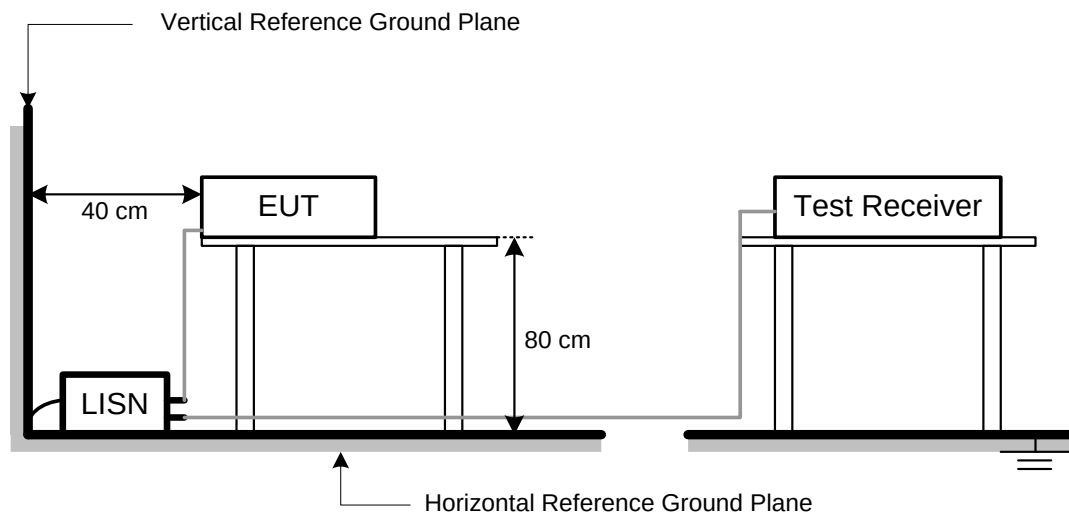
NOTE:

- (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)
19.11	+	2.11	=	21.22

Measurement Value (dBuV/m)		Limit Value (dBuV/m)		Margin Level (dB)
21.22	-	54	=	-32.78

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

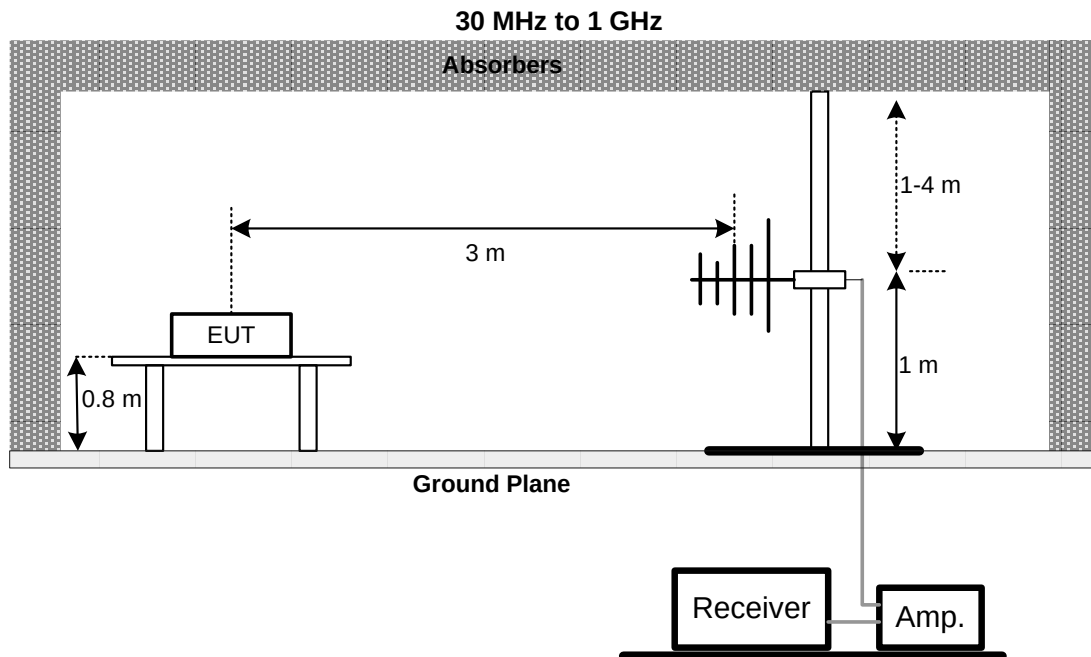
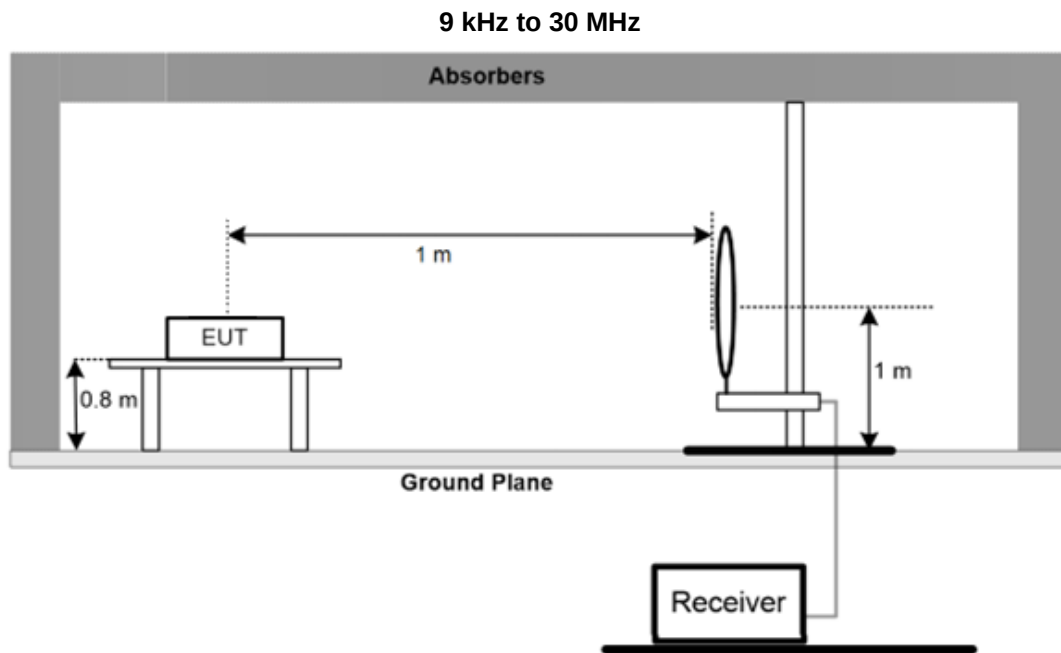
4.2 TEST PROCEDURE

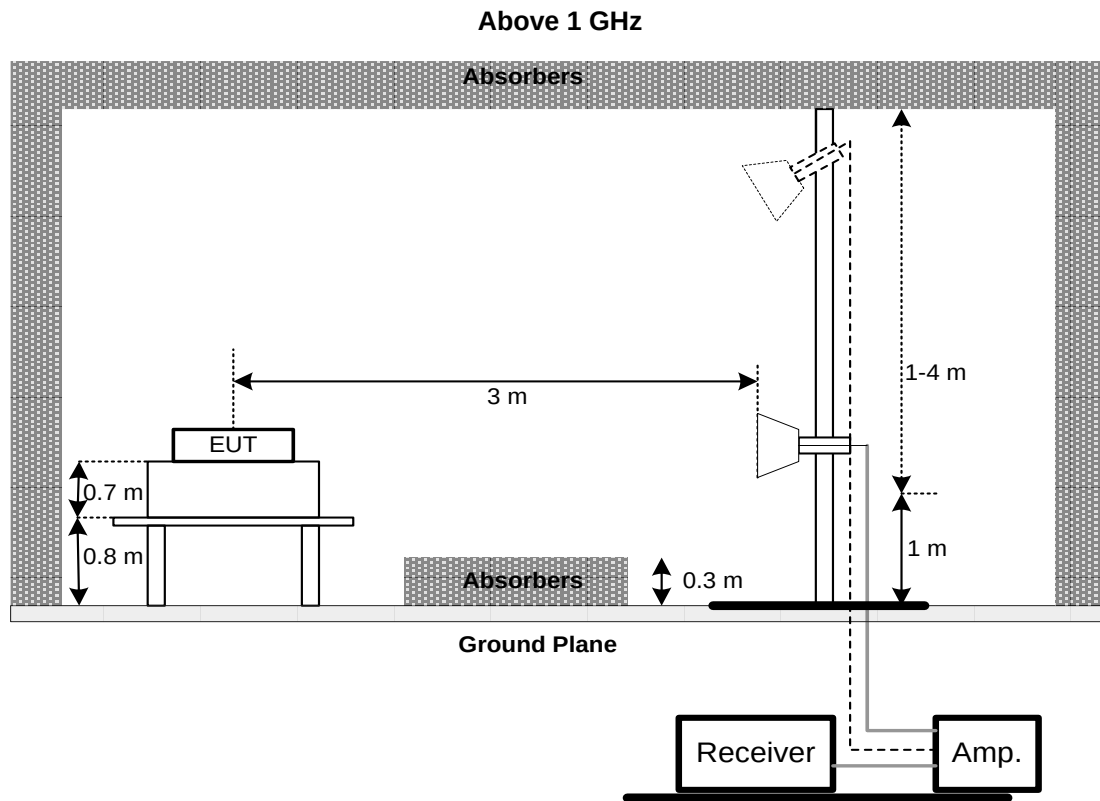
- The measuring distance of 1 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 30MHz)
- The measuring distance 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





4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT – 9 KHZ TO 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

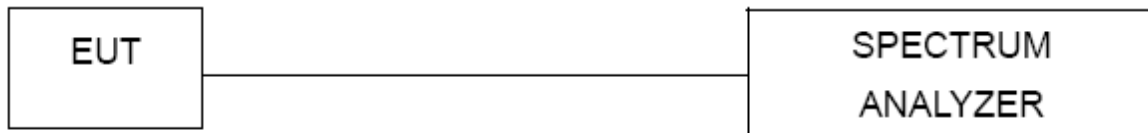
5.2 TEST PROCEDURE

- 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

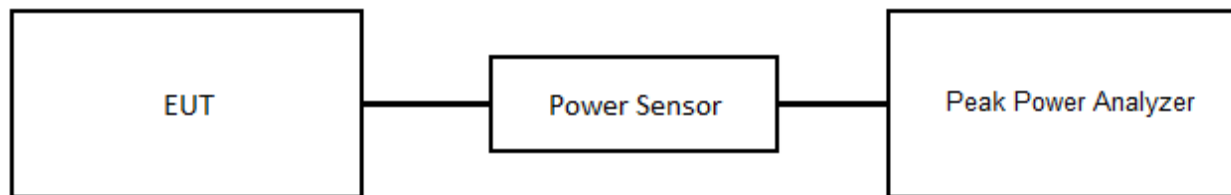
6.2 TEST PROCEDURE

- 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.

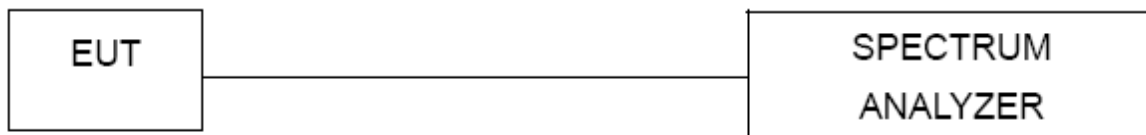
8.2 TEST PROCEDURE

- 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	101521	2024/9/5	2025/9/4
2	Test Cable	EMCI	EMCCFD300-BM-BMR-5000	220331	2024/3/30	2025/3/29
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	EMC118A45SE	980819	2024/3/6	2025/3/5
3	Pre-Amplifier	EMCI	EMC184045SE	980907	2024/9/4	2025/9/3
4	Preamplifier	EMCI	EMC001340	980579	2024/9/4	2025/9/3
5	Test Cable	EMCI	EMC104-SM-1000	180809	2024/3/8	2025/3/7
6	Test Cable	EMCI	EMC104-SM-SM-3000	220322	2024/3/8	2025/3/7
7	Test Cable	EMCI	EMC104-SM-SM-7000	220324	2024/3/8	2025/3/7
8	EXA Signal Analyzer	keysight	N9020B	MY57120120	2024/2/23	2025/2/22
9	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2024/9/9	2025/9/8
10	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2024/5/9	2025/5/8
11	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2024/5/17	2025/5/16
12	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2024/6/14	2025/6/13
13	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2024/6/14	2025/6/13
14	Test Cable	EMCI	EMC101G-KM-KM-3000	220329	2024/3/13	2025/3/12
15	Test Cable	EMCI	EMC102-KM-KM-1000	220327	2024/3/13	2025/3/12
16	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	101139	2024/3/8	2025/3/7

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	101139	2024/3/8	2025/3/7

Antenna conducted Spurious Emission						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	101139	2024/3/8	2025/3/7

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

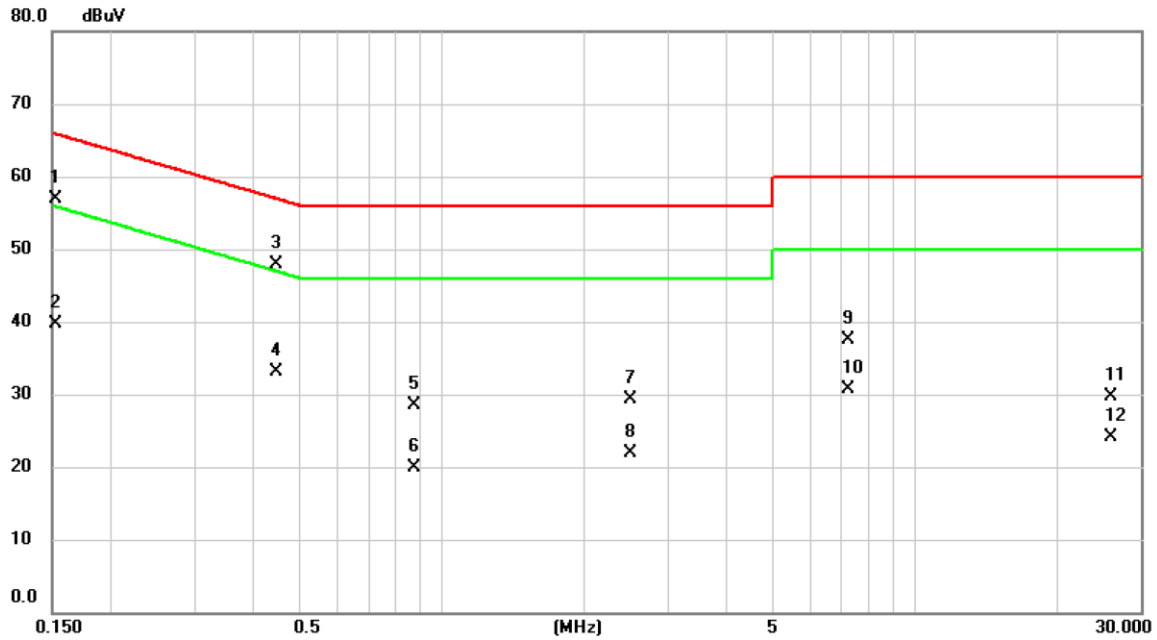
Please refer to document Appendix No.: TP-2410T032-FCCP-1 (APPENDIX-TEST PHOTOS).

11 EUT PHOTOS

Please refer to document Appendix No.: EP-2410T032-1 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2024/11/5
Test Frequency	-	Phase	Line

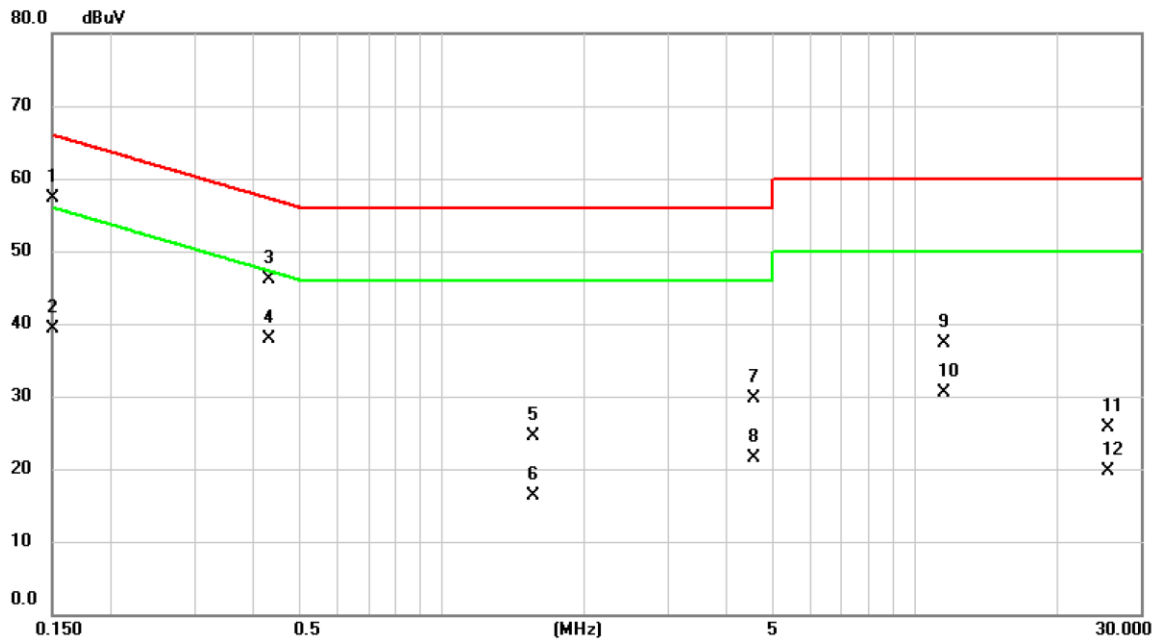


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1522	37.78	19.08	56.86	65.88	-9.02	QP	
2		0.1522	20.64	19.08	39.72	55.88	-16.16	AVG	
3		0.4470	28.49	19.36	47.85	56.93	-9.08	QP	
4		0.4470	13.65	19.36	33.01	46.93	-13.92	AVG	
5		0.8745	9.06	19.36	28.42	56.00	-27.58	QP	
6		0.8745	0.49	19.36	19.85	46.00	-26.15	AVG	
7		2.5080	10.32	19.01	29.33	56.00	-26.67	QP	
8		2.5080	2.80	19.01	21.81	46.00	-24.19	AVG	
9		7.2285	18.65	18.89	37.54	60.00	-22.46	QP	
10		7.2285	11.90	18.89	30.79	50.00	-19.21	AVG	
11		25.9530	10.59	19.03	29.62	60.00	-30.38	QP	
12		25.9530	5.02	19.03	24.05	50.00	-25.95	AVG	

REMARKS:

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

Test Mode	Normal	Tested Date	2024/11/5
Test Frequency	-	Phase	Neutral

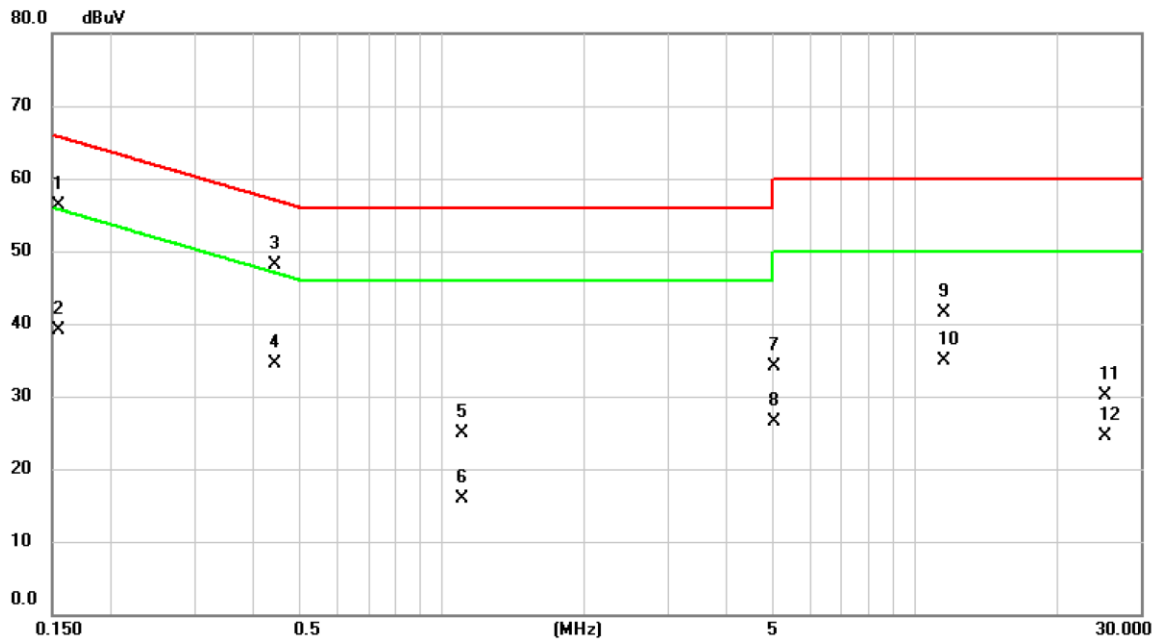


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	38.31	19.03	57.34	66.00	-8.66	QP	
2		0.1500	20.18	19.03	39.21	56.00	-16.79	AVG	
3		0.4312	26.72	19.35	46.07	57.23	-11.16	QP	
4		0.4312	18.49	19.35	37.84	47.23	-9.39	AVG	
5		1.5653	5.30	19.20	24.50	56.00	-31.50	QP	
6		1.5653	-2.94	19.20	16.26	46.00	-29.74	AVG	
7		4.5600	11.01	18.79	29.80	56.00	-26.20	QP	
8		4.5600	2.79	18.79	21.58	46.00	-24.42	AVG	
9		11.4855	18.31	19.01	37.32	60.00	-22.68	QP	
10		11.4855	11.47	19.01	30.48	50.00	-19.52	AVG	
11		25.5683	6.62	19.14	25.76	60.00	-34.24	QP	
12		25.5683	0.63	19.14	19.77	50.00	-30.23	AVG	

REMARKS:

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

Test Mode	Idle	Tested Date	2024/11/5
Test Frequency	-	Phase	Line

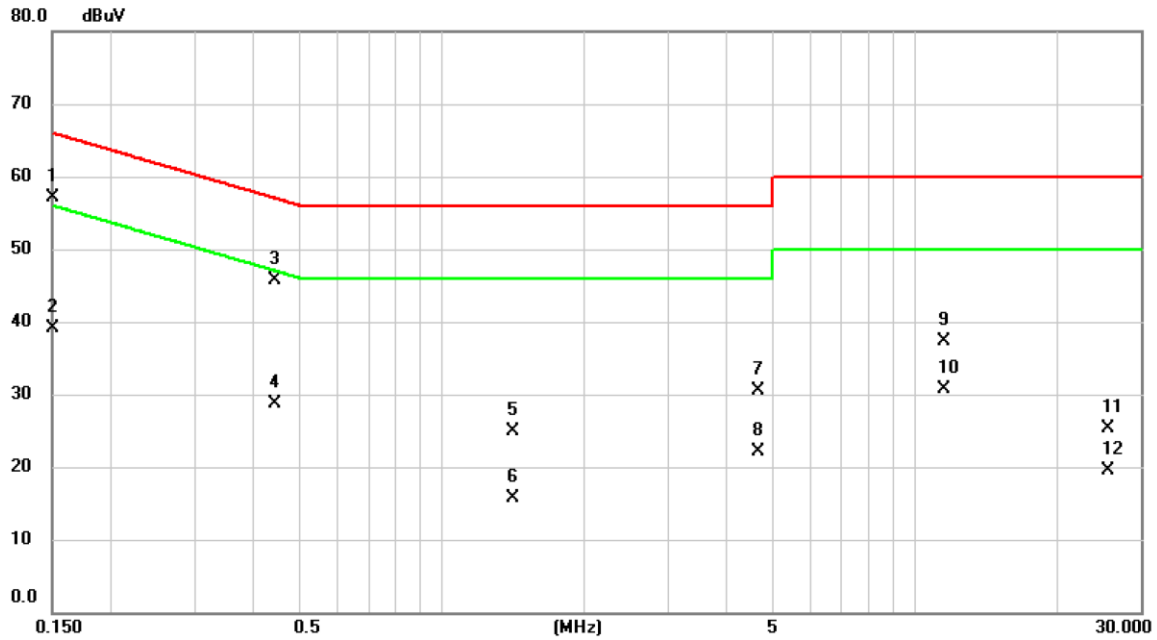


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1545	37.22	19.09	56.31	65.75	-9.44	QP	
2	0.1545	20.10	19.09	39.19	55.75	-16.56	AVG	
3 *	0.4447	28.82	19.36	48.18	56.97	-8.79	QP	
4	0.4447	15.06	19.36	34.42	46.97	-12.55	AVG	
5	1.1040	5.63	19.34	24.97	56.00	-31.03	QP	
6	1.1040	-3.37	19.34	15.97	46.00	-30.03	AVG	
7	5.0280	15.36	18.82	34.18	60.00	-25.82	QP	
8	5.0280	7.68	18.82	26.50	50.00	-23.50	AVG	
9	11.4945	22.55	18.97	41.52	60.00	-18.48	QP	
10	11.4945	16.01	18.97	34.98	50.00	-15.02	AVG	
11	25.2533	11.03	19.02	30.05	60.00	-29.95	QP	
12	25.2533	5.46	19.02	24.48	50.00	-25.52	AVG	

REMARKS:

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

Test Mode	Idle	Tested Date	2024/11/5
Test Frequency	-	Phase	Neutral



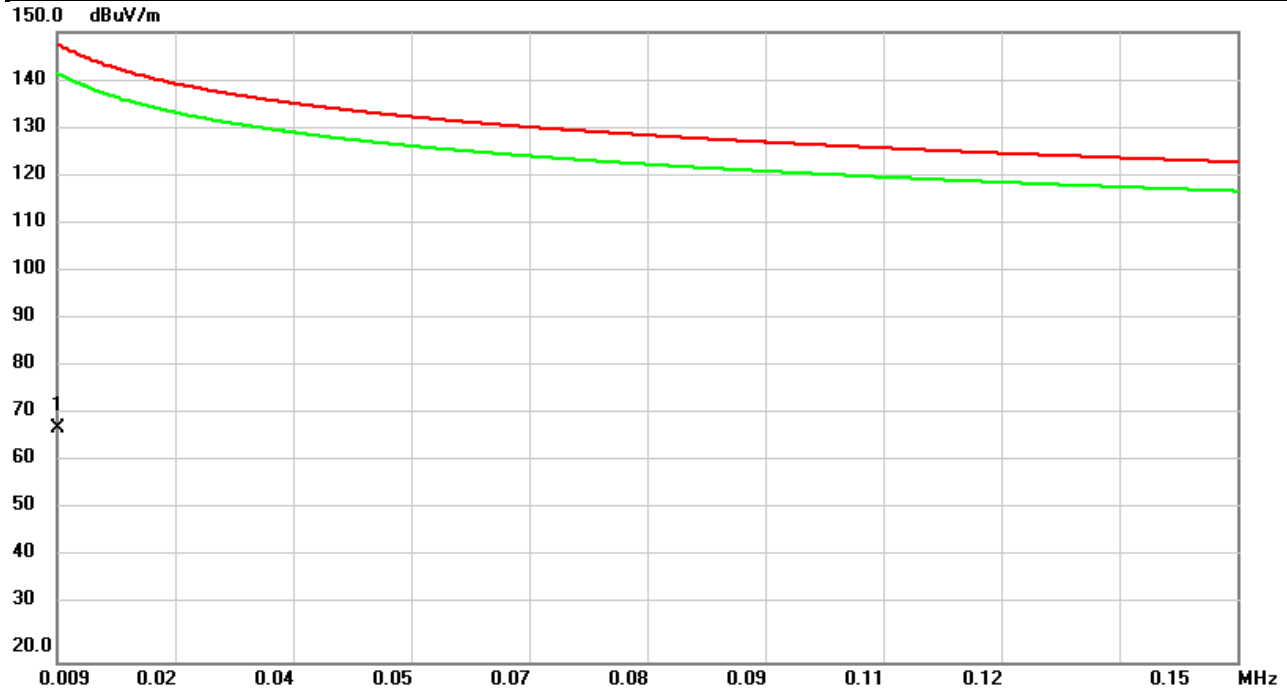
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1508	38.15	19.05	57.20	65.96	-8.76	QP	
2		0.1508	20.08	19.05	39.13	55.96	-16.83	AVG	
3		0.4447	26.31	19.35	45.66	56.97	-11.31	QP	
4		0.4447	9.38	19.35	28.73	46.97	-18.24	AVG	
5		1.4100	5.58	19.26	24.84	56.00	-31.16	QP	
6		1.4100	-3.52	19.26	15.74	46.00	-30.26	AVG	
7		4.6545	11.63	18.81	30.44	56.00	-25.56	QP	
8		4.6545	3.27	18.81	22.08	46.00	-23.92	AVG	
9		11.4810	18.34	19.01	37.35	60.00	-22.65	QP	
10		11.4810	11.72	19.01	30.73	50.00	-19.27	AVG	
11		25.5705	6.14	19.14	25.28	60.00	-34.72	QP	
12		25.5705	0.37	19.14	19.51	50.00	-30.49	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	2024/11/15
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

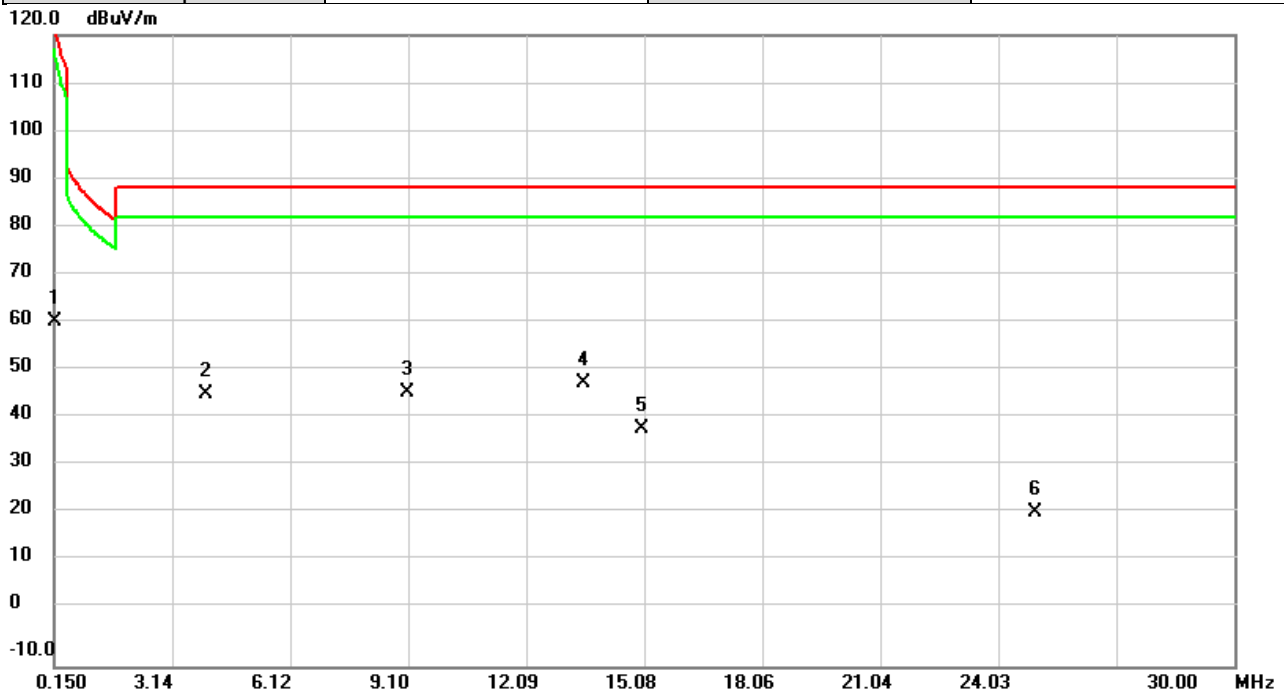


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0090	32.21	36.04	68.25	147.60	-79.35	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2024/11/15
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

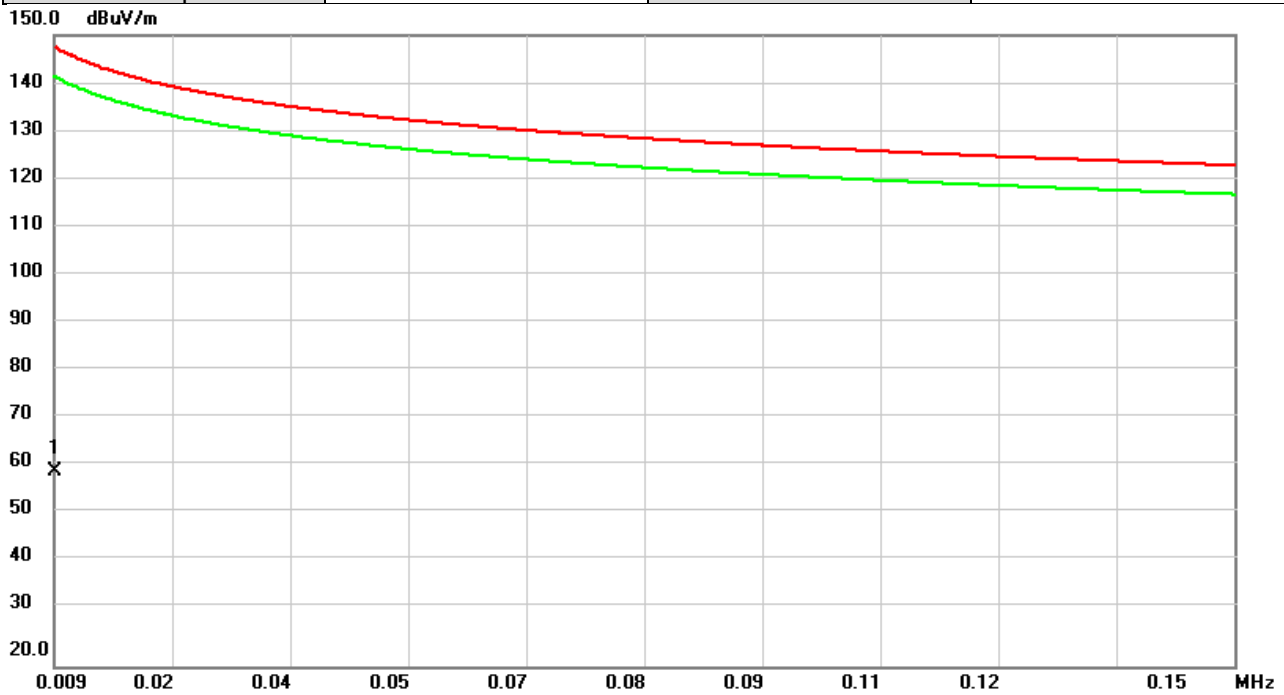


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.1500	46.94	13.96	60.90	123.16	-62.26	QP	
2		3.9986	50.29	-4.08	46.21	88.62	-42.41	QP	
3		9.0761	49.56	-3.27	46.29	88.62	-42.33	QP	
4	*	13.5606	51.64	-3.36	48.28	88.62	-40.34	QP	
5		14.9993	42.31	-3.50	38.81	88.62	-49.81	QP	
6		24.9662	24.69	-3.02	21.67	88.62	-66.95	QP	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2024/11/15
Test Frequency	2412MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%

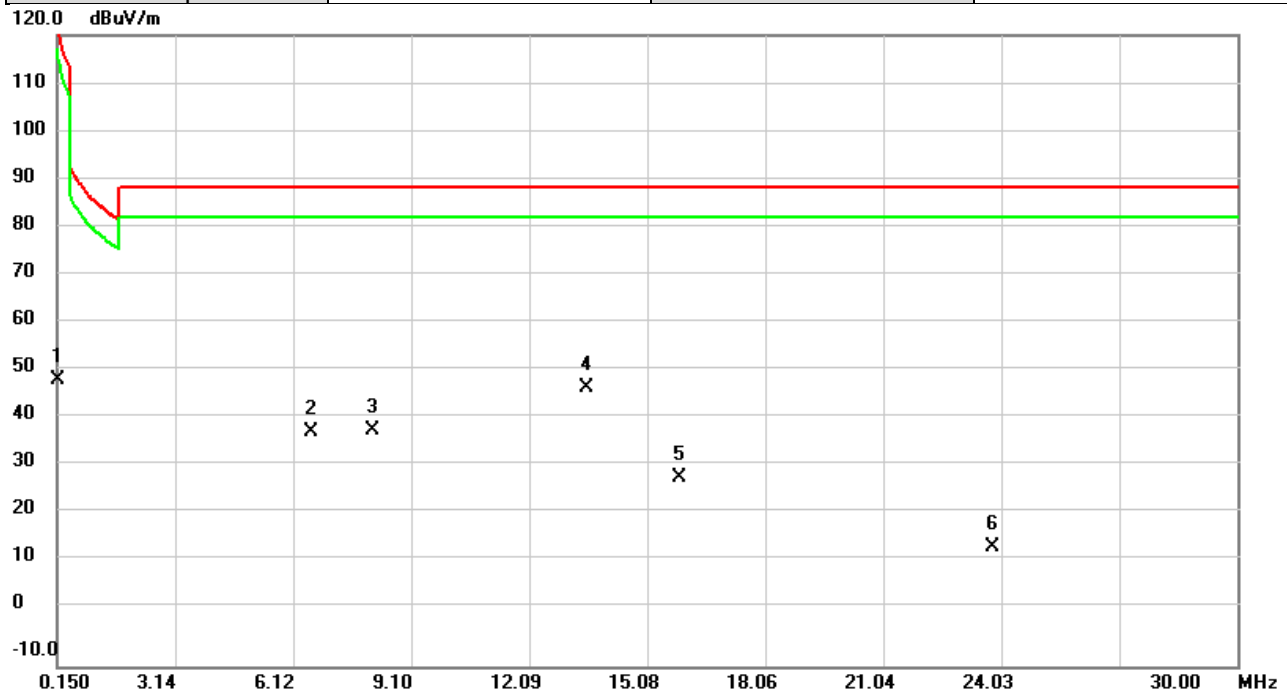


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0091	24.15	36.00	60.15	147.50	-87.35	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2024/11/15
Test Frequency	2412MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%



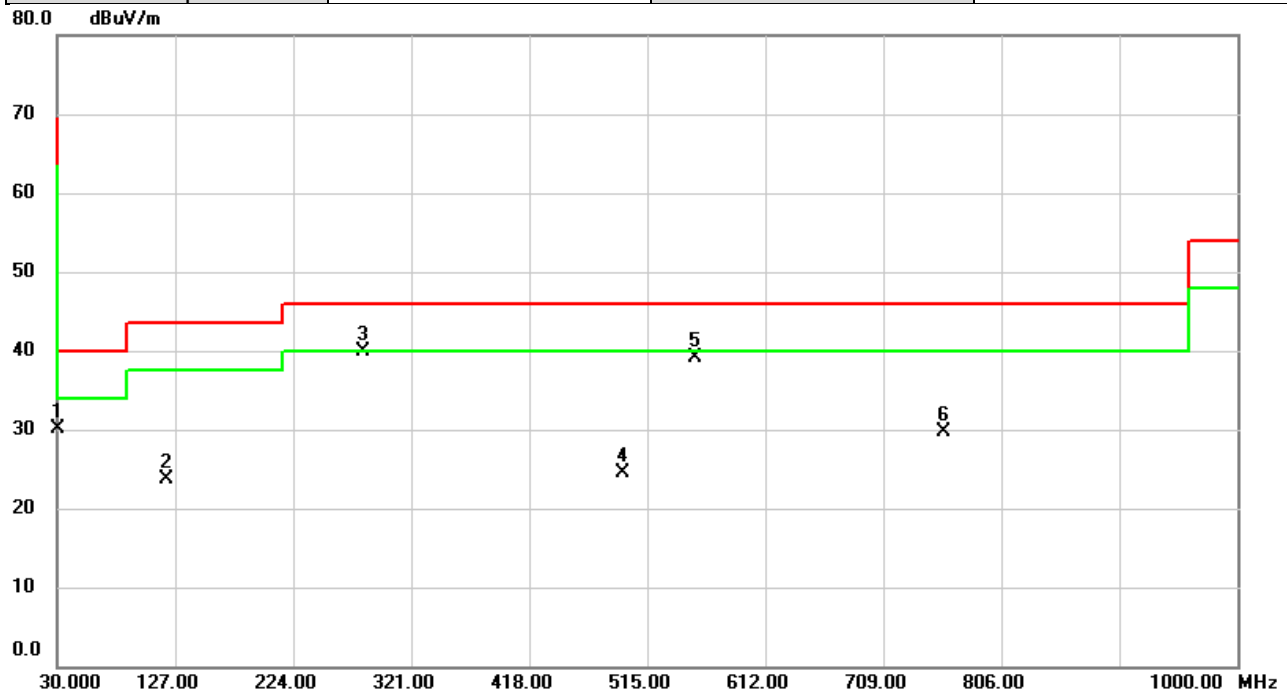
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1828	36.65	12.44	49.09	121.44	-72.35	QP	
2		6.5667	42.19	-3.97	38.22	88.62	-50.40	QP	
3		8.1408	42.16	-3.53	38.63	88.62	-49.99	QP	
4	*	13.5596	50.87	-3.36	47.51	88.62	-41.11	QP	
5		15.8978	32.41	-3.58	28.83	88.62	-59.79	QP	
6		23.8190	17.74	-3.24	14.50	88.62	-74.12	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	2024/11/15
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

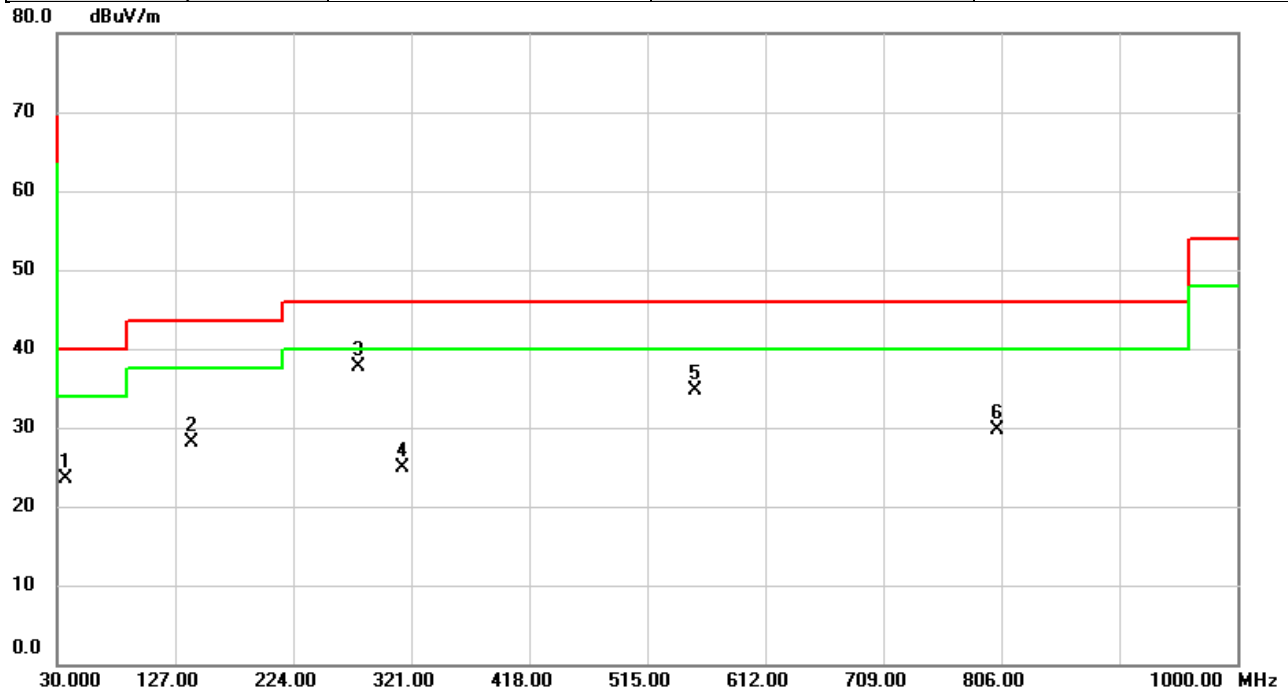


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		30.0000	43.60	-13.43	30.17	40.00	-9.83	peak	
2		119.9836	38.08	-14.45	23.63	43.50	-19.87	peak	
3	*	281.0036	51.71	-11.89	39.82	46.00	-6.18	peak	
4		495.0180	31.15	-6.72	24.43	46.00	-21.57	peak	
5		554.8346	44.55	-5.53	39.02	46.00	-6.98	peak	
6		758.4700	31.34	-1.66	29.68	46.00	-16.32	peak	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2024/11/15
Test Frequency	2412MHz	Polarization	Horizontal
Temp	25°C	Hum.	62%



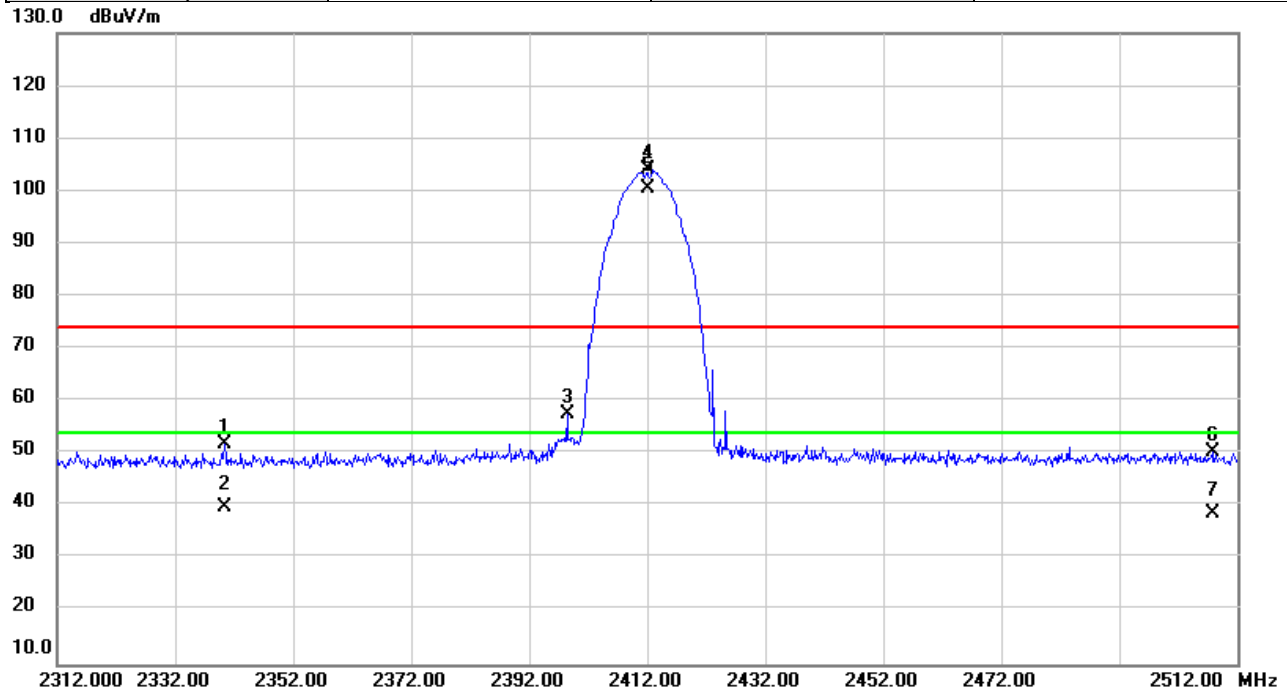
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		37.0162	36.15	-12.57	23.58	40.00	-16.42	peak	
2		140.3213	40.60	-12.56	28.04	43.50	-15.46	peak	
3	*	277.8026	49.72	-12.03	37.69	46.00	-8.31	peak	
4		313.7896	36.07	-11.13	24.94	46.00	-21.06	peak	
5		554.5436	40.24	-5.54	34.70	46.00	-11.30	peak	
6		802.2816	31.07	-1.34	29.73	46.00	-16.27	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	2024/11/14
Test Frequency	2412MHz	Polarization	Vertical
Temp	23°C	Hum.	64%



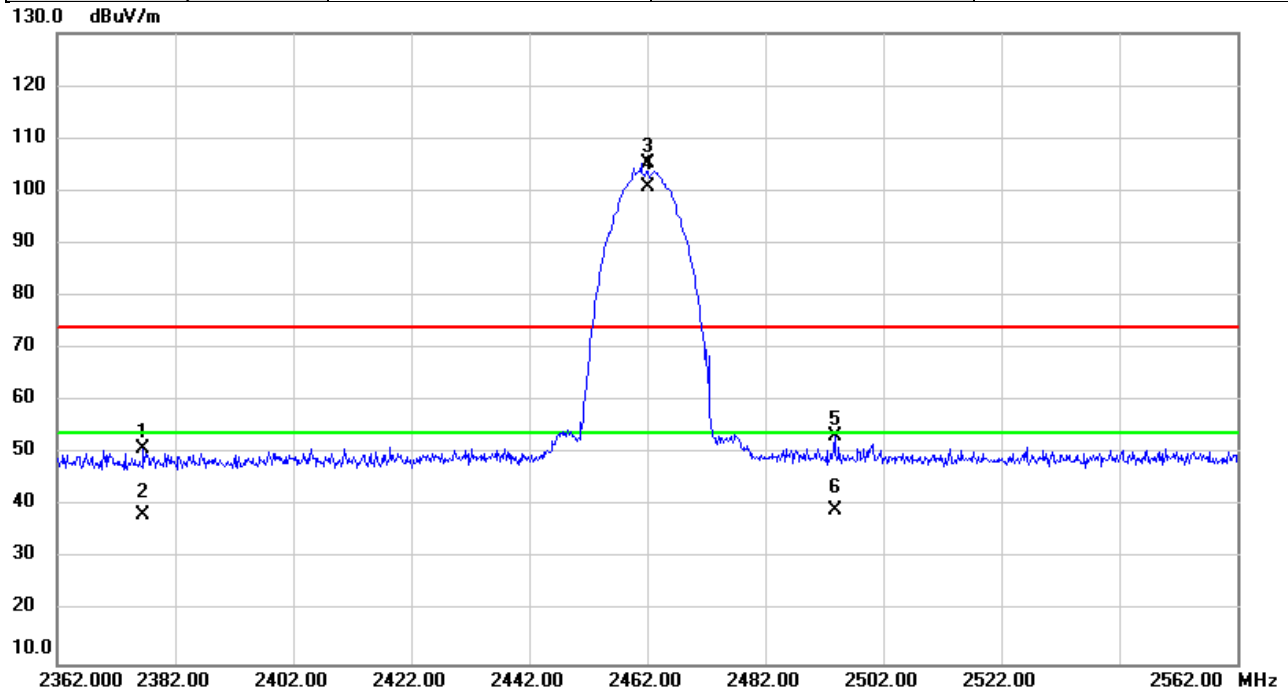
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2340.320	57.05	-5.07	51.98	74.00	-22.02	peak	
2		2340.320	44.87	-5.07	39.80	54.00	-14.20	AVG	
3		2398.567	62.43	-4.99	57.44	74.00	-16.56	peak	No Limit
4	X	2412.000	108.89	-4.97	103.92	74.00	29.92	peak	No Limit
5	*	2412.000	105.32	-4.97	100.35	54.00	46.35	AVG	No Limit
6		2507.773	55.26	-4.84	50.42	74.00	-23.58	peak	
7		2507.773	43.43	-4.84	38.59	54.00	-15.41	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11b	Test Date	2024/11/14
Test Frequency	2462MHz	Polarization	Vertical
Temp	25°C	Hum.	60%

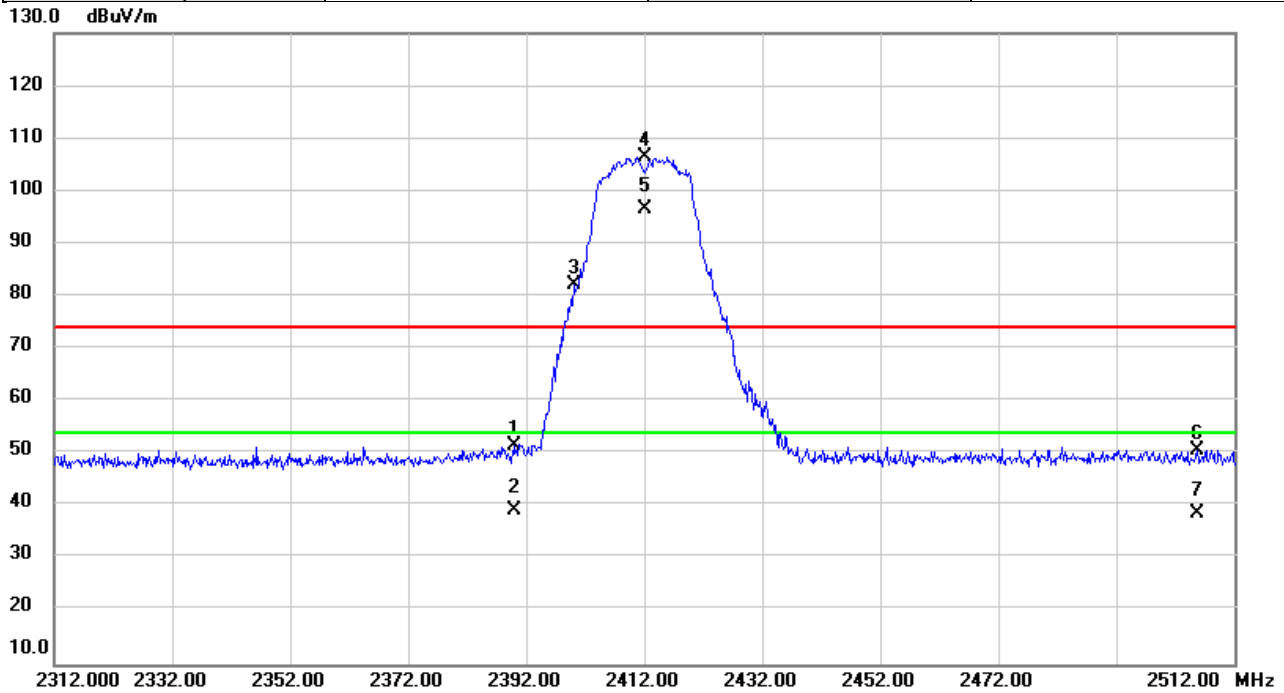


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2376.633	55.98	-5.03	50.95	74.00	-23.05	peak	
2		2376.633	43.49	-5.03	38.46	54.00	-15.54	AVG	
3	X	2462.000	110.04	-4.91	105.13	74.00	31.13	peak	No Limit
4	*	2462.000	105.72	-4.91	100.81	54.00	46.81	AVG	No Limit
5		2493.747	58.27	-4.87	53.40	74.00	-20.60	peak	
6		2493.747	44.19	-4.87	39.32	54.00	-14.68	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2024/11/14
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	60%

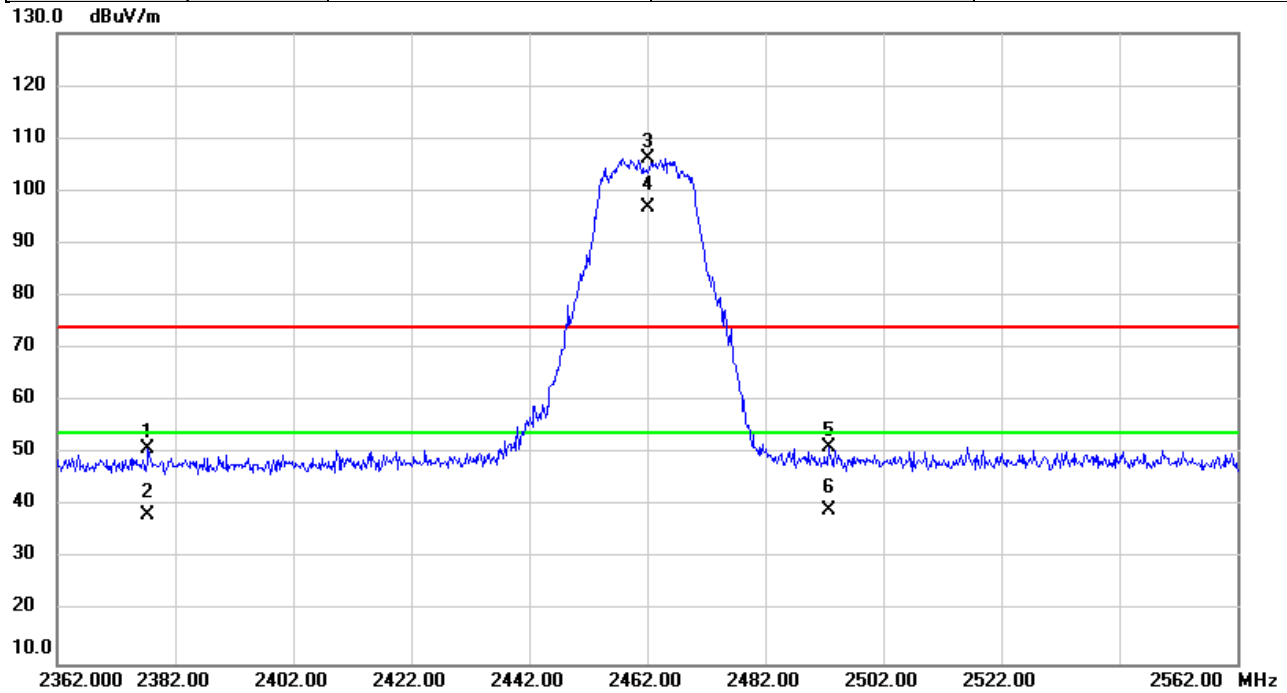


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2389.973	56.50	-5.01	51.49	74.00	-22.51	peak	
2		2389.973	44.37	-5.01	39.36	54.00	-14.64	AVG	
3	X	2400.000	87.07	-4.99	82.08	74.00	8.08	peak	No Limit
4	X	2412.000	111.44	-4.97	106.47	74.00	32.47	peak	No Limit
5	*	2412.000	101.55	-4.97	96.58	54.00	42.58	AVG	No Limit
6		2505.653	55.61	-4.85	50.76	74.00	-23.24	peak	
7		2505.653	43.55	-4.85	38.70	54.00	-15.30	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2024/11/14
Test Frequency	2462MHz	Polarization	Vertical
Temp	25°C	Hum.	60%

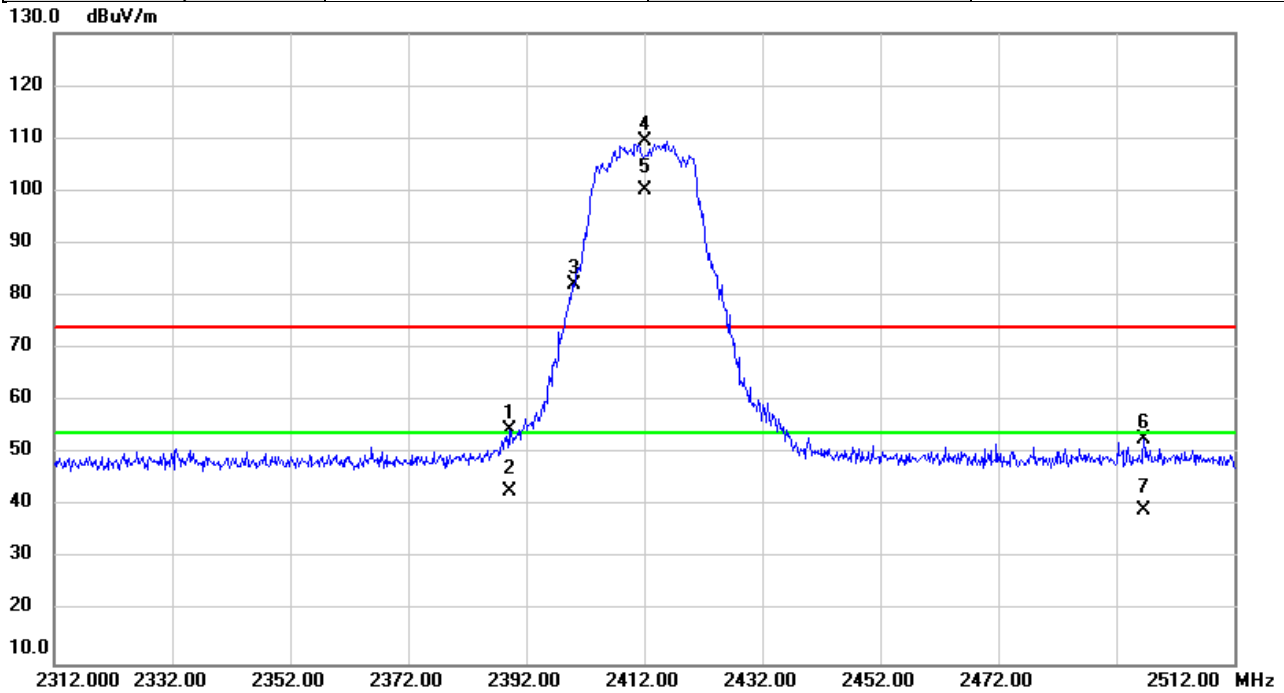


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2377.427	55.86	-5.02	50.84	74.00	-23.16	peak	
2		2377.427	43.33	-5.02	38.31	54.00	-15.69	AVG	
3	X	2462.000	111.17	-4.91	106.26	74.00	32.26	peak	No Limit
4	*	2462.000	101.63	-4.91	96.72	54.00	42.72	AVG	No Limit
5		2492.787	56.15	-4.87	51.28	74.00	-22.72	peak	
6		2492.787	44.15	-4.87	39.28	54.00	-14.72	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2024/11/14
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



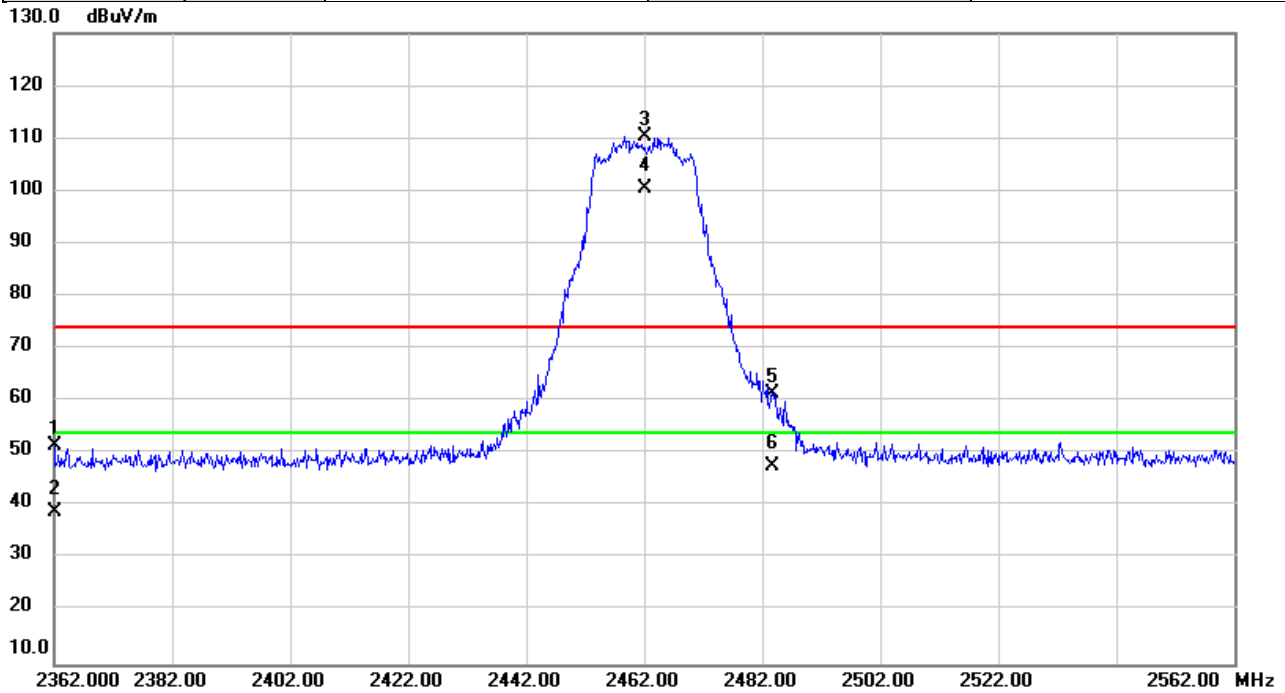
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2389.113	59.54	-5.01	54.53	74.00	-19.47	peak	
2		2389.113	47.92	-5.01	42.91	54.00	-11.09	AVG	
3	X	2400.000	87.00	-4.99	82.01	74.00	8.01	peak	No Limit
4	X	2412.000	114.54	-4.97	109.57	74.00	35.57	peak	No Limit
5	*	2412.000	105.22	-4.97	100.25	54.00	46.25	AVG	No Limit
6		2496.767	57.65	-4.85	52.80	74.00	-21.20	peak	
7		2496.767	44.19	-4.85	39.34	54.00	-14.66	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2024/11/14
Test Frequency	2462MHz	Polarization	Vertical
Temp	25°C	Hum.	60%

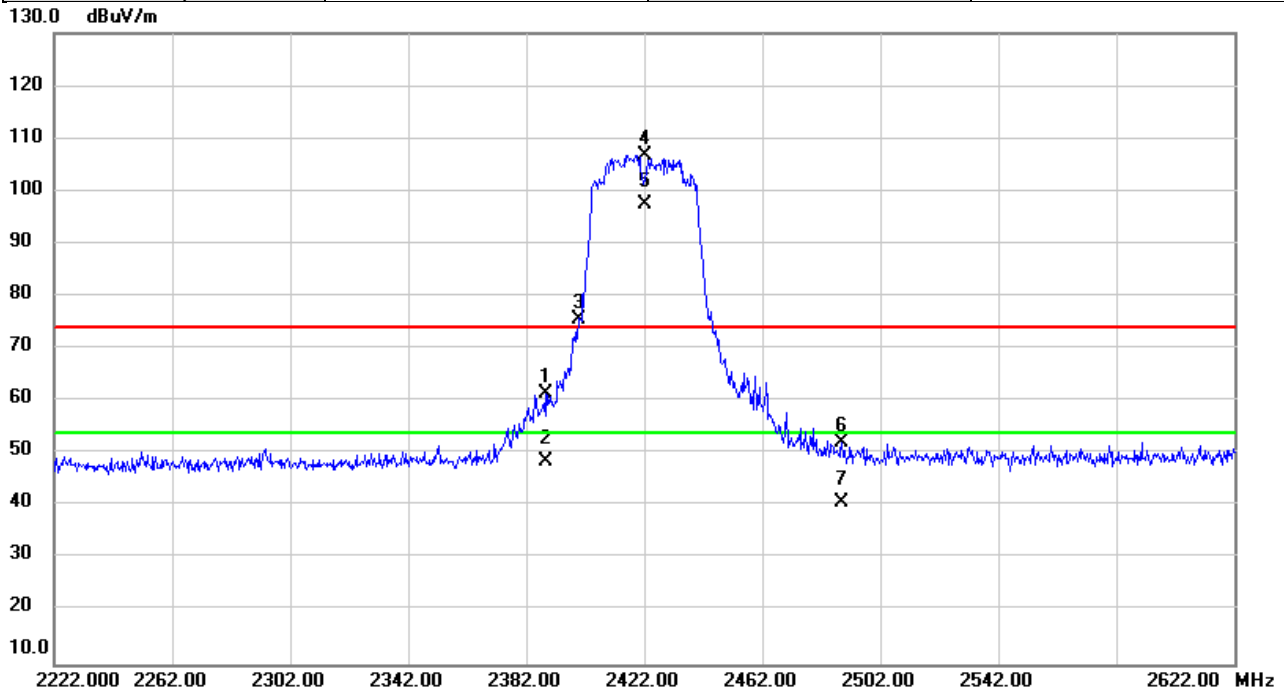


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2362.000	56.59	-5.04	51.55	74.00	-22.45	peak	
2		2362.000	43.89	-5.04	38.85	54.00	-15.15	AVG	
3	X	2462.000	115.16	-4.91	110.25	74.00	36.25	peak	No Limit
4	*	2462.000	105.47	-4.91	100.56	54.00	46.56	AVG	No Limit
5		2483.607	66.24	-4.87	61.37	74.00	-12.63	peak	
6		2483.607	52.39	-4.87	47.52	54.00	-6.48	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2024/11/14
Test Frequency	2422MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



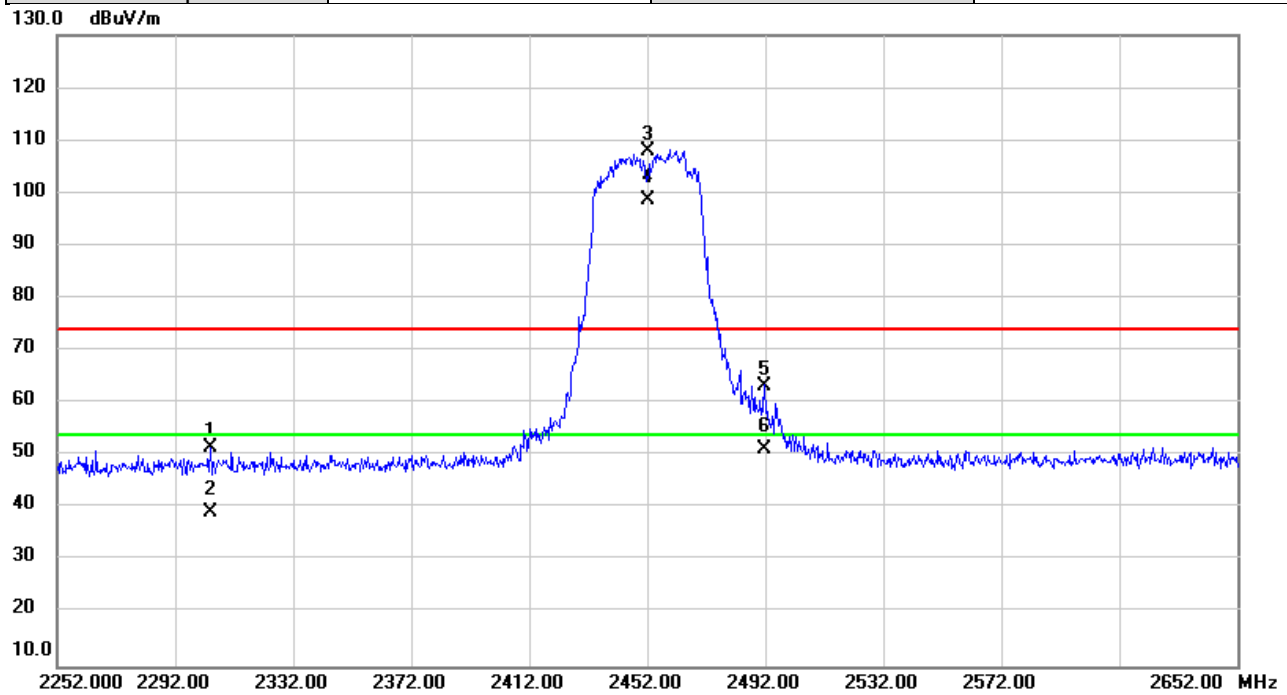
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2388.520	66.33	-5.01	61.32	74.00	-12.68	peak	
2		2388.520	53.64	-5.01	48.63	54.00	-5.37	AVG	
3	X	2400.000	80.59	-4.99	75.60	74.00	1.60	peak	No Limit
4	X	2422.000	111.85	-4.97	106.88	74.00	32.88	peak	No Limit
5	*	2422.000	102.38	-4.97	97.41	54.00	43.41	AVG	No Limit
6		2489.080	57.08	-4.88	52.20	74.00	-21.80	peak	
7		2489.080	45.68	-4.88	40.80	54.00	-13.20	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2024/11/14
Test Frequency	2452MHz	Polarization	Vertical
Temp	25°C	Hum.	60%

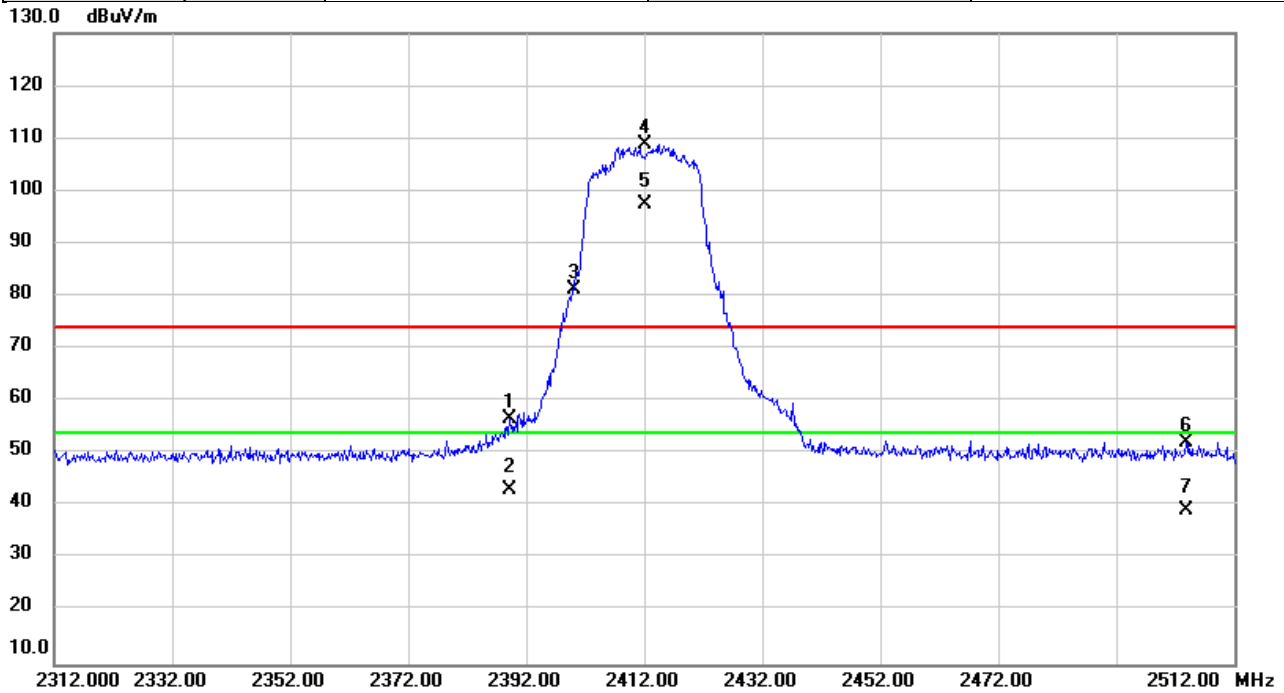


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2303.800	56.74	-5.11	51.63	74.00	-22.37	peak	
2		2303.800	44.46	-5.11	39.35	54.00	-14.65	AVG	
3	X	2452.000	113.02	-4.92	108.10	74.00	34.10	peak	No Limit
4	*	2452.000	103.43	-4.92	98.51	54.00	44.51	AVG	No Limit
5		2491.720	68.27	-4.87	63.40	74.00	-10.60	peak	
6		2491.720	56.07	-4.87	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 802.11ax (HE20)	Test Date	2024/11/14
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



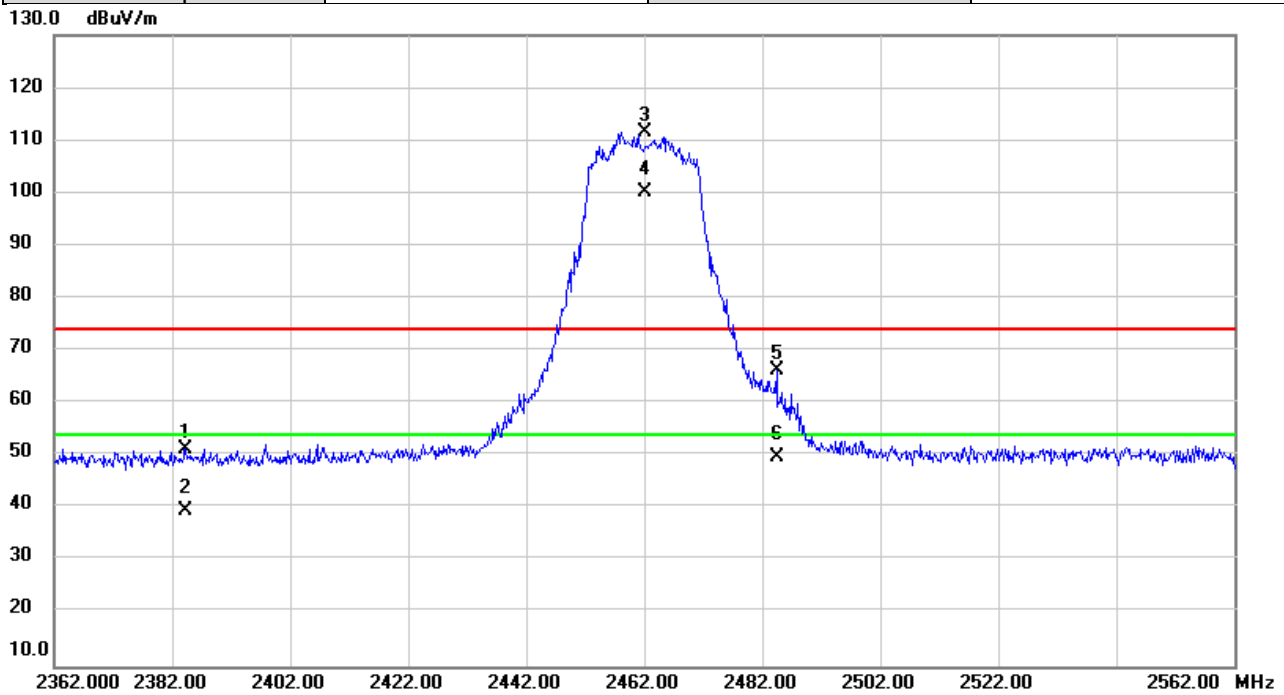
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2389.293	61.62	-5.01	56.61	74.00	-17.39	peak	
2		2389.293	48.05	-5.01	43.04	54.00	-10.96	AVG	
3	X	2400.000	86.32	-4.99	81.33	74.00	7.33	peak	No Limit
4	X	2412.000	113.87	-4.97	108.90	74.00	34.90	peak	No Limit
5	*	2412.000	102.37	-4.97	97.40	54.00	43.40	AVG	No Limit
6		2503.793	56.99	-4.85	52.14	74.00	-21.86	peak	
7		2503.793	44.09	-4.85	39.24	54.00	-14.76	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/11/14
Test Frequency	2462MHz	Polarization	Vertical
Temp	25°C	Hum.	60%

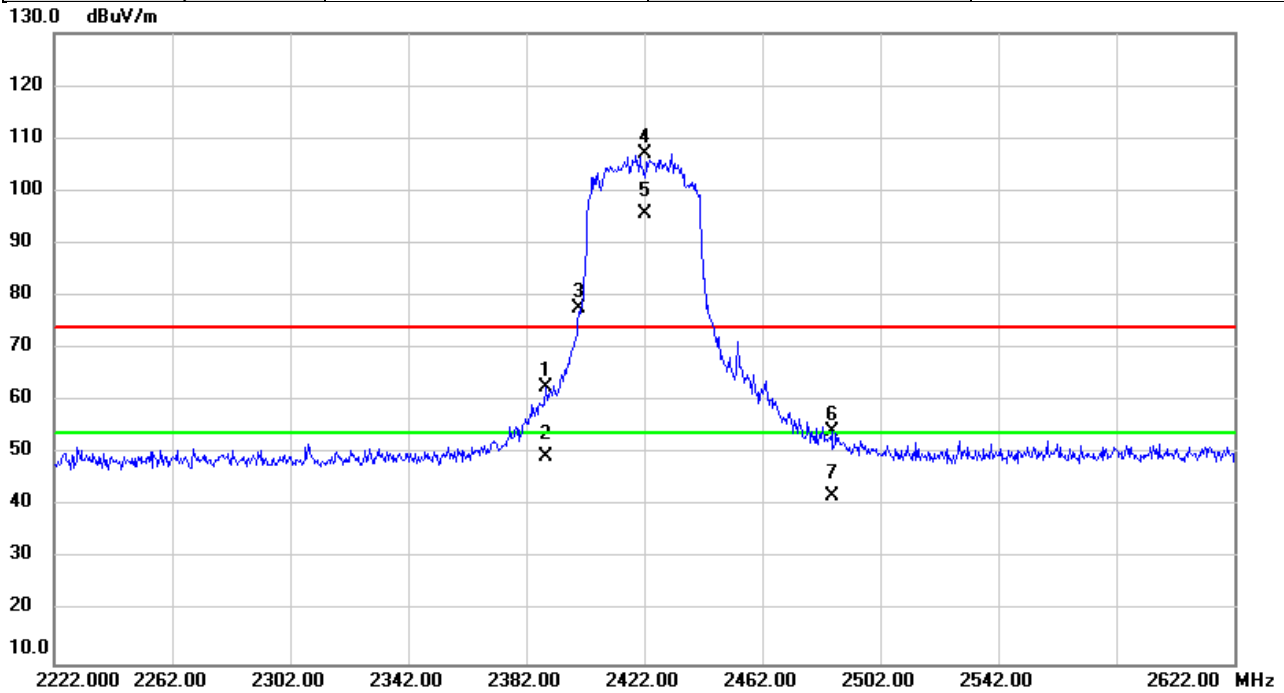


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2384.273	56.34	-5.01	51.33	74.00	-22.67	peak	
2		2384.273	44.44	-5.01	39.43	54.00	-14.57	AVG	
3	X	2462.000	116.36	-4.91	111.45	74.00	37.45	peak	No Limit
4	*	2462.000	105.19	-4.91	100.28	54.00	46.28	AVG	No Limit
5		2484.493	71.06	-4.88	66.18	74.00	-7.82	peak	
6		2484.493	54.65	-4.88	49.77	54.00	-4.23	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2024/11/14
Test Frequency	2422MHz	Polarization	Vertical
Temp	25°C	Hum.	60%



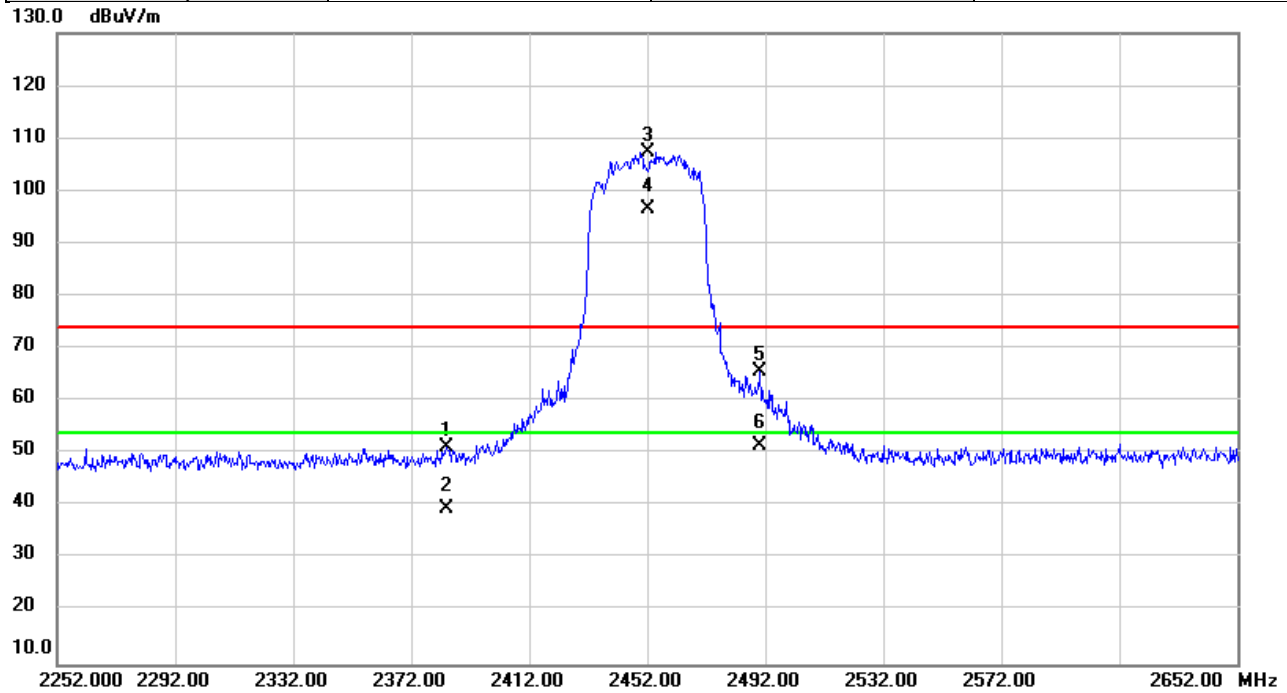
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2388.640	67.58	-5.01	62.57	74.00	-11.43	peak	
2		2388.640	54.56	-5.01	49.55	54.00	-4.45	AVG	
3	X	2400.000	82.50	-4.99	77.51	74.00	3.51	peak	No Limit
4	X	2422.000	112.03	-4.97	107.06	74.00	33.06	peak	No Limit
5	*	2422.000	100.64	-4.97	95.67	54.00	41.67	AVG	No Limit
6		2485.480	59.02	-4.88	54.14	74.00	-19.86	peak	
7		2485.480	46.94	-4.88	42.06	54.00	-11.94	AVG	

REMARKS:

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

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2024/11/14
Test Frequency	2452MHz	Polarization	Vertical
Temp	25°C	Hum.	60%

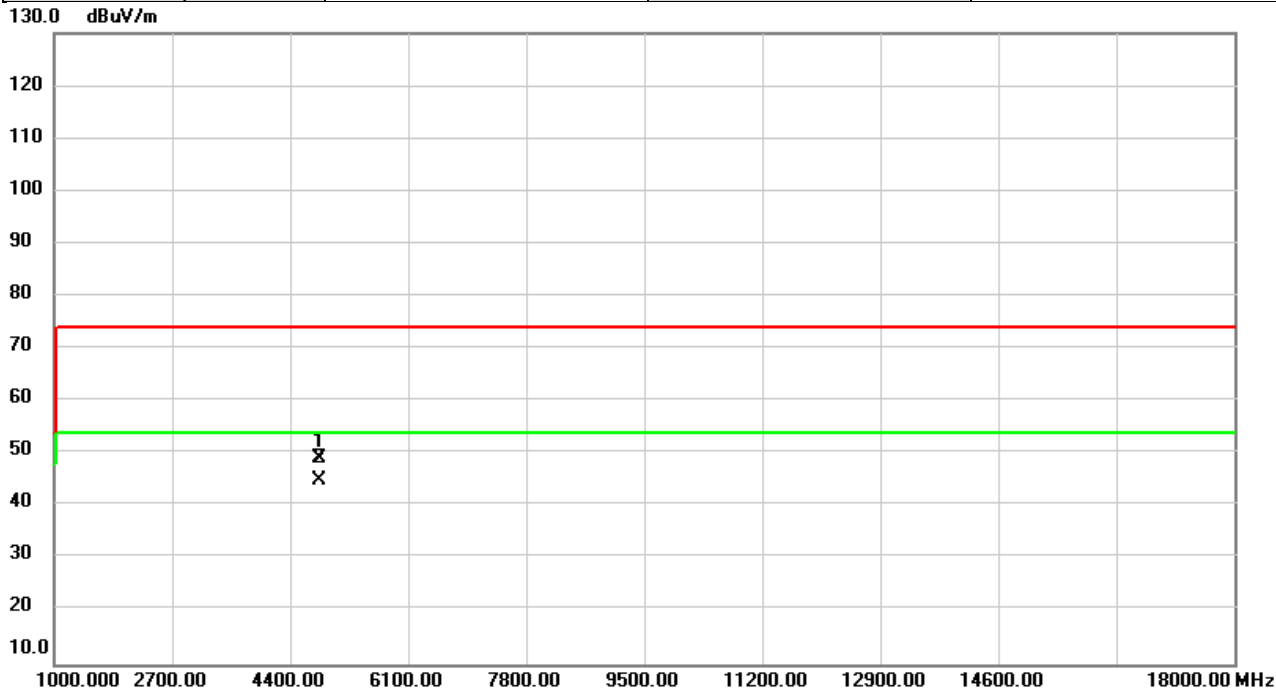


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2384.200	56.18	-5.01	51.17	74.00	-22.83	peak	
2		2384.200	44.56	-5.01	39.55	54.00	-14.45	AVG	
3	X	2452.000	112.19	-4.92	107.27	74.00	33.27	peak	No Limit
4	*	2452.000	101.39	-4.92	96.47	54.00	42.47	AVG	No Limit
5		2490.013	70.46	-4.86	65.60	74.00	-8.40	peak	
6		2490.013	56.30	-4.86	51.44	54.00	-2.56	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2024/11/12
Test Frequency	2412MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

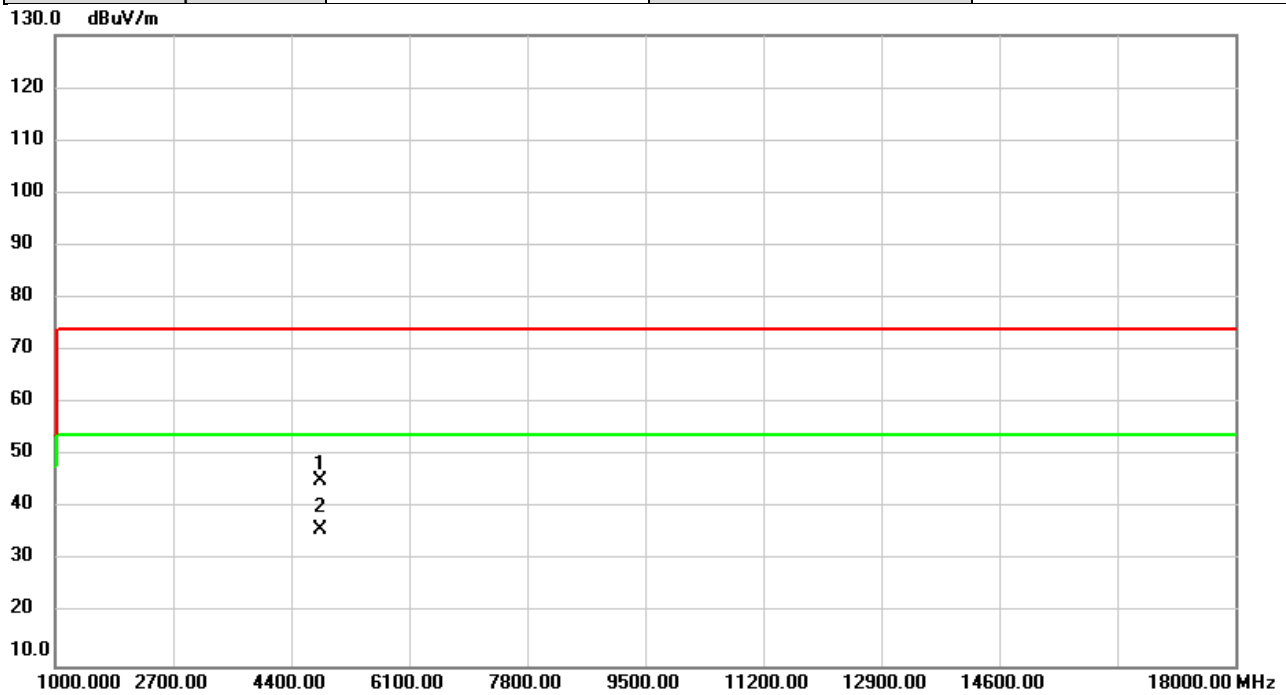


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	48.18	0.92	49.10	74.00	-24.90	peak	
2	*	4824.000	44.12	0.92	45.04	54.00	-8.96	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2024/11/12
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

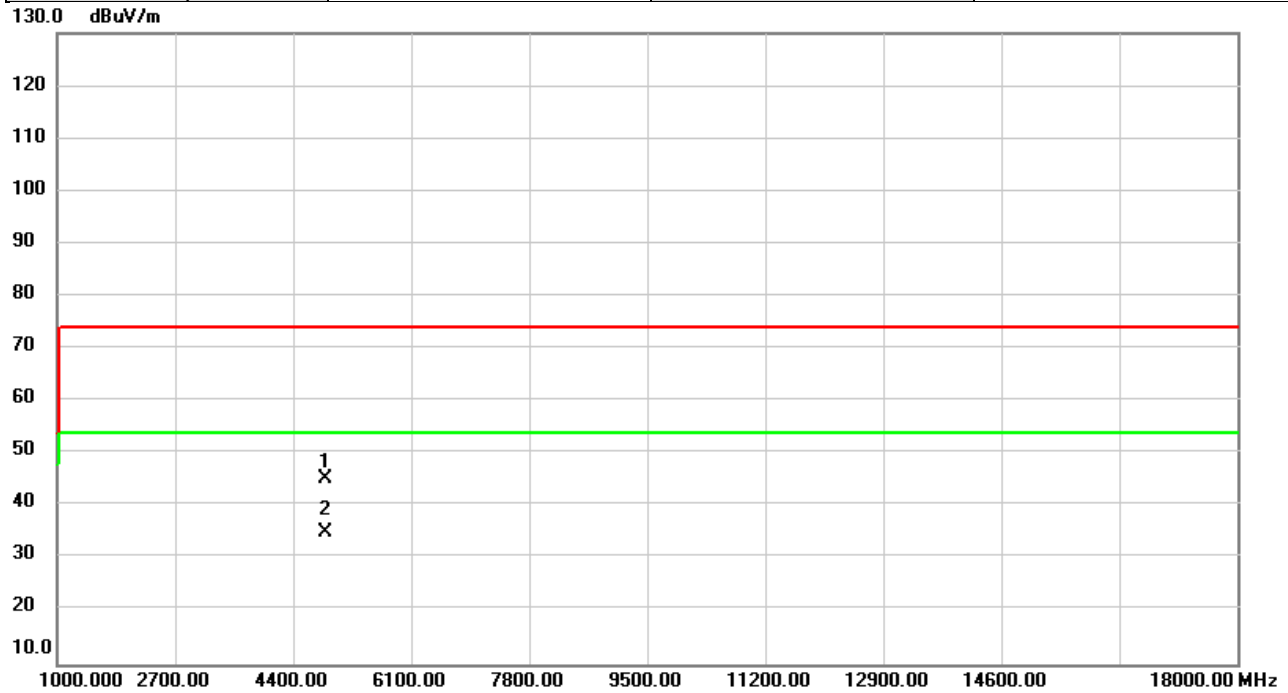


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	44.29	0.92	45.21	74.00	-28.79	peak	
2	*	4824.000	35.11	0.92	36.03	54.00	-17.97	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2024/11/12
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

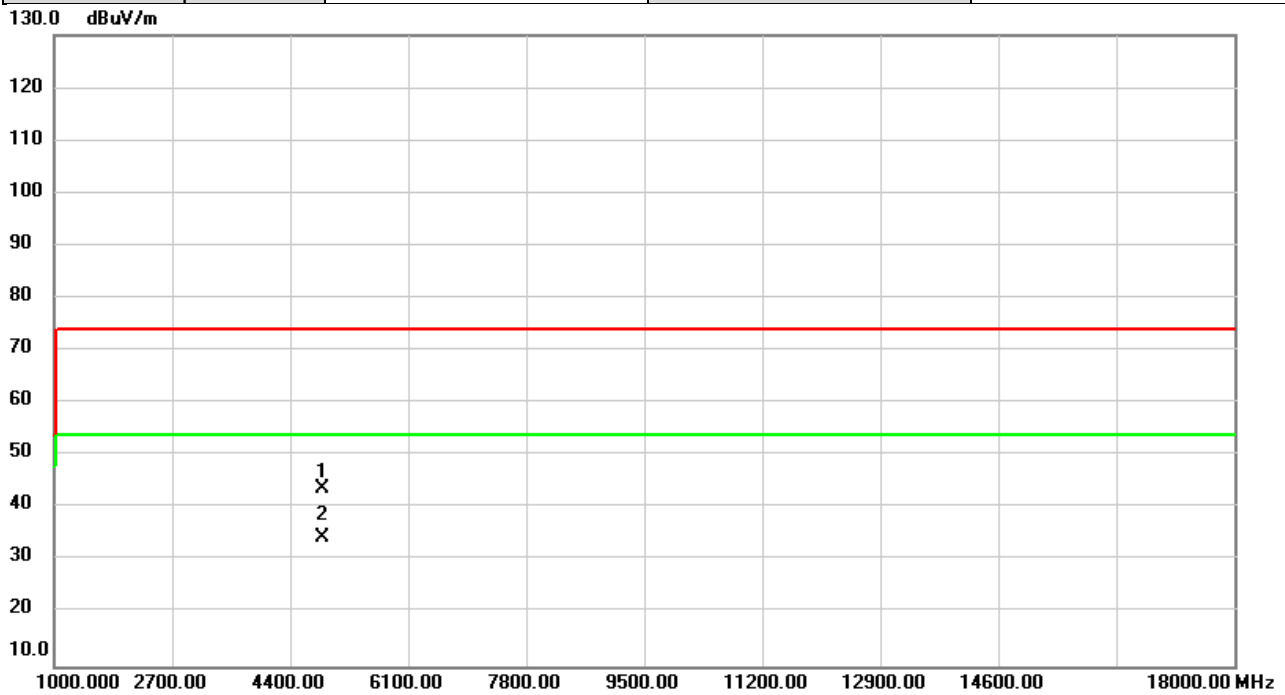


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	44.08	1.02	45.10	74.00	-28.90	peak	
2	*	4874.000	34.17	1.02	35.19	54.00	-18.81	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2024/11/12
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

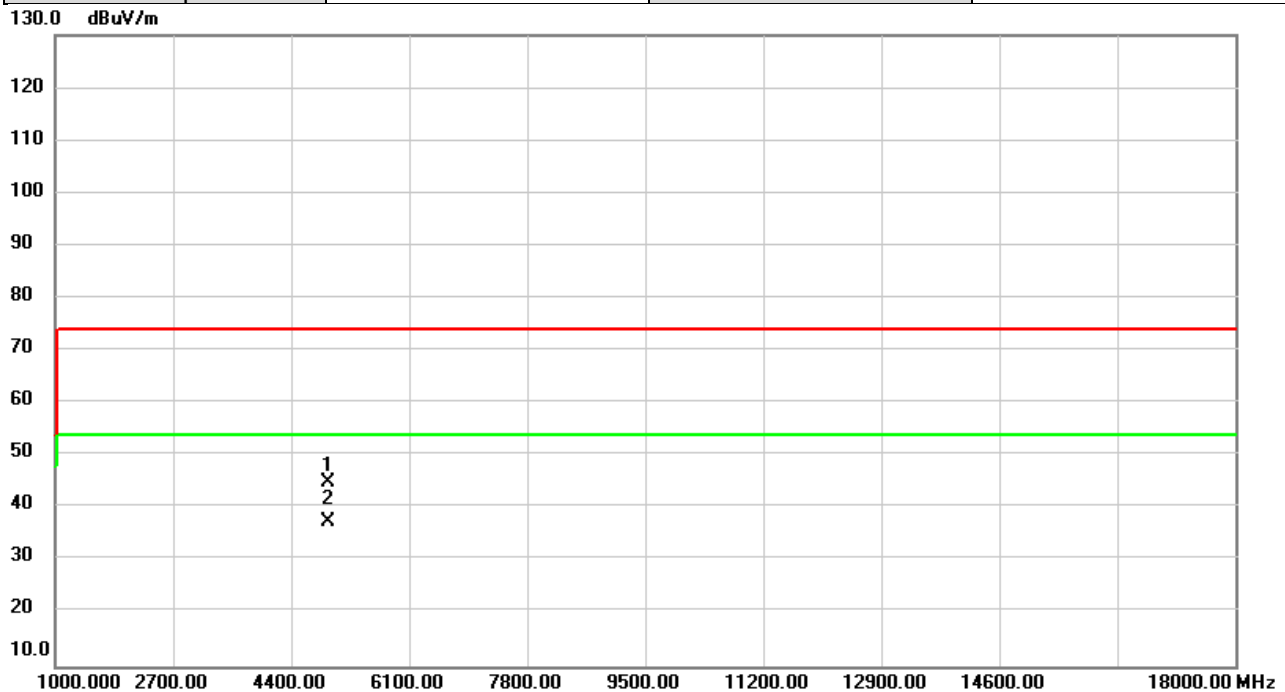


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	42.74	1.02	43.76	74.00	-30.24	peak	
2	*	4874.000	33.36	1.02	34.38	54.00	-19.62	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2024/11/12
Test Frequency	2462MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

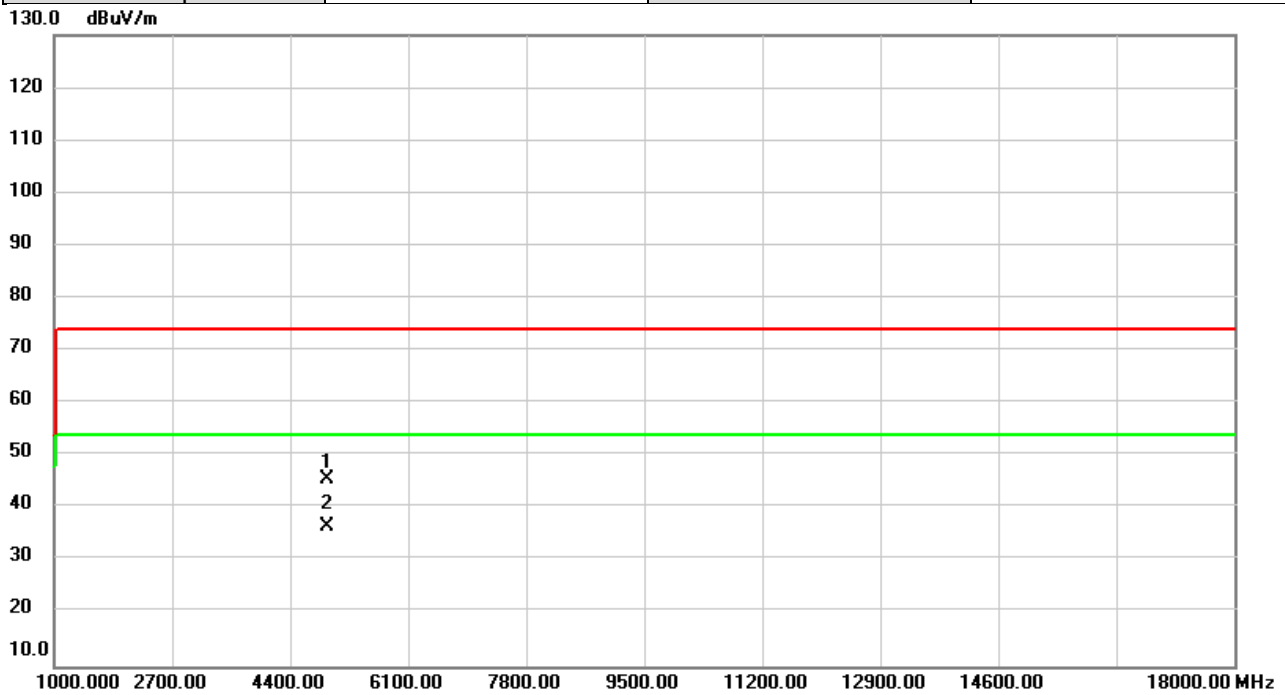


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	43.84	1.13	44.97	74.00	-29.03	peak	
2	*	4924.000	36.42	1.13	37.55	54.00	-16.45	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2024/11/12
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

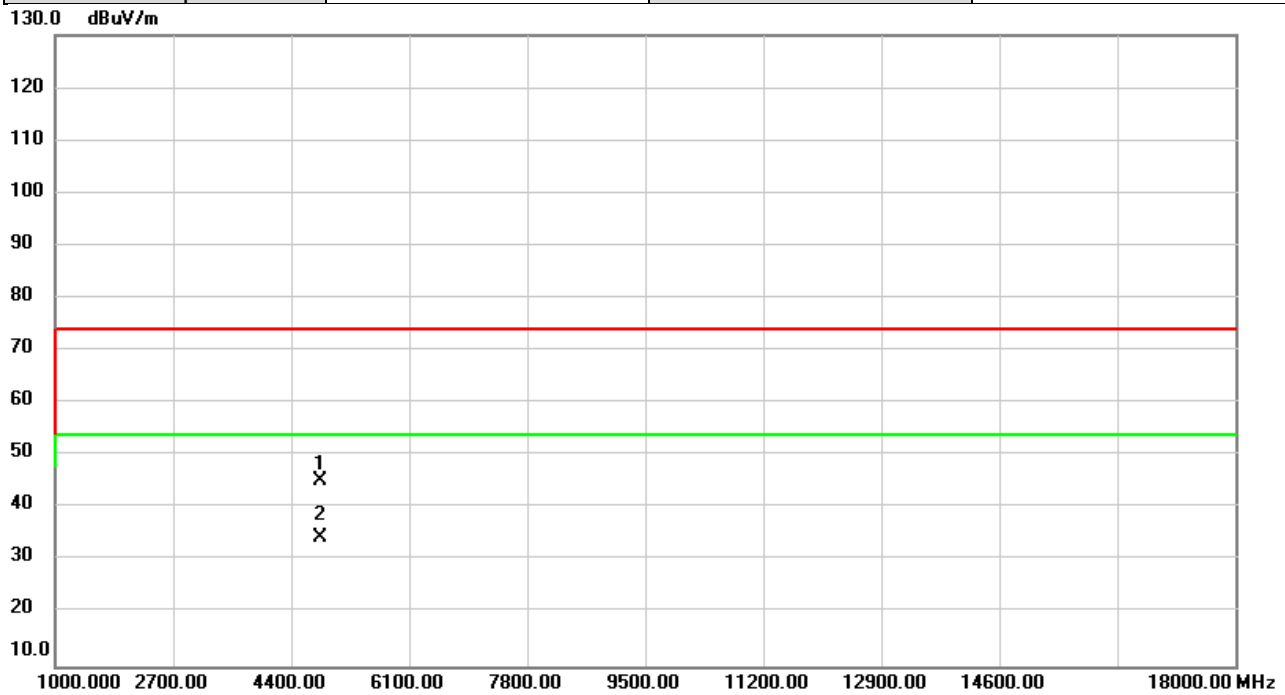


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	44.39	1.13	45.52	74.00	-28.48	peak	
2	*	4924.000	35.45	1.13	36.58	54.00	-17.42	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2024/11/12
Test Frequency	2412MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

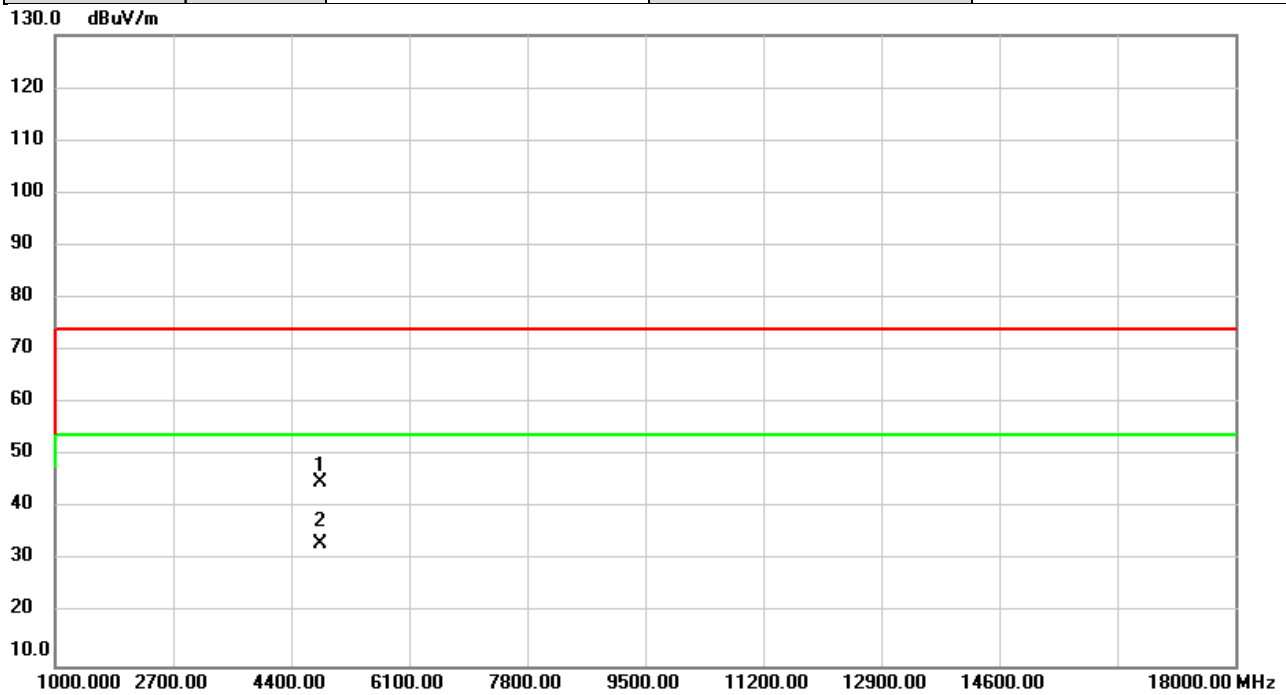


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	44.47	0.92	45.39	74.00	-28.61	peak	
2	*	4824.000	33.49	0.92	34.41	54.00	-19.59	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2024/11/12
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

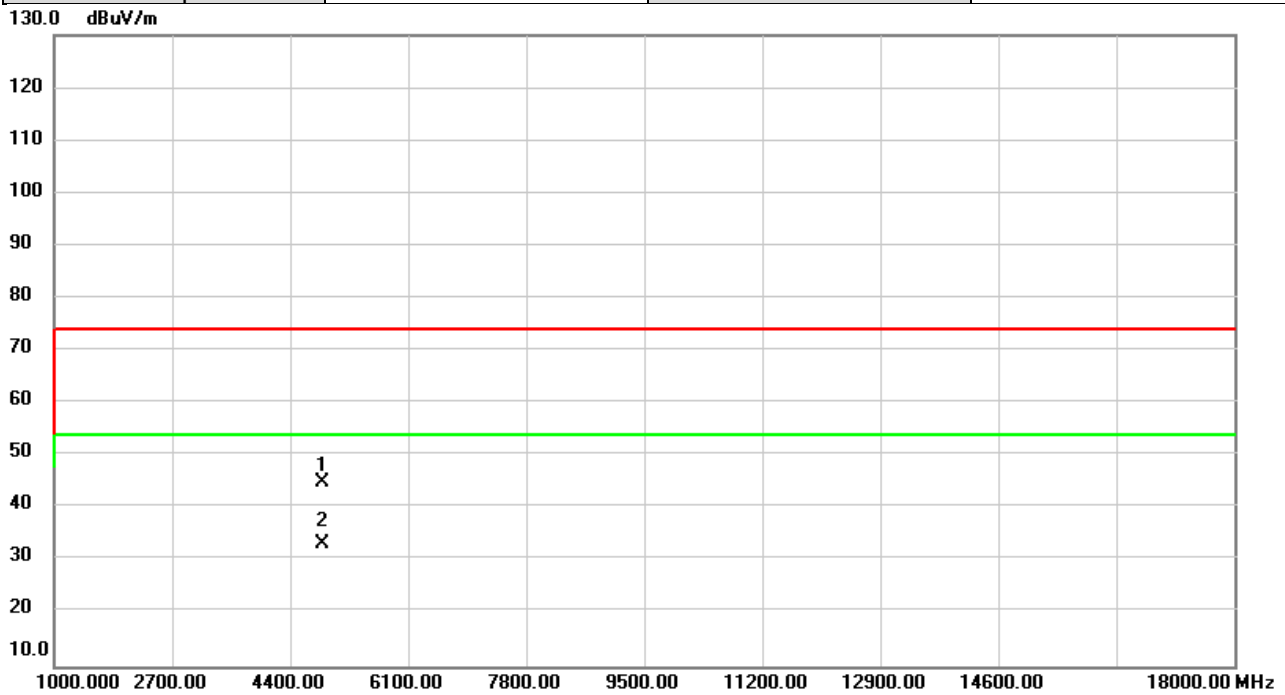


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	43.95	0.92	44.87	74.00	-29.13	peak	
2	*	4824.000	32.27	0.92	33.19	54.00	-20.81	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2024/11/12
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

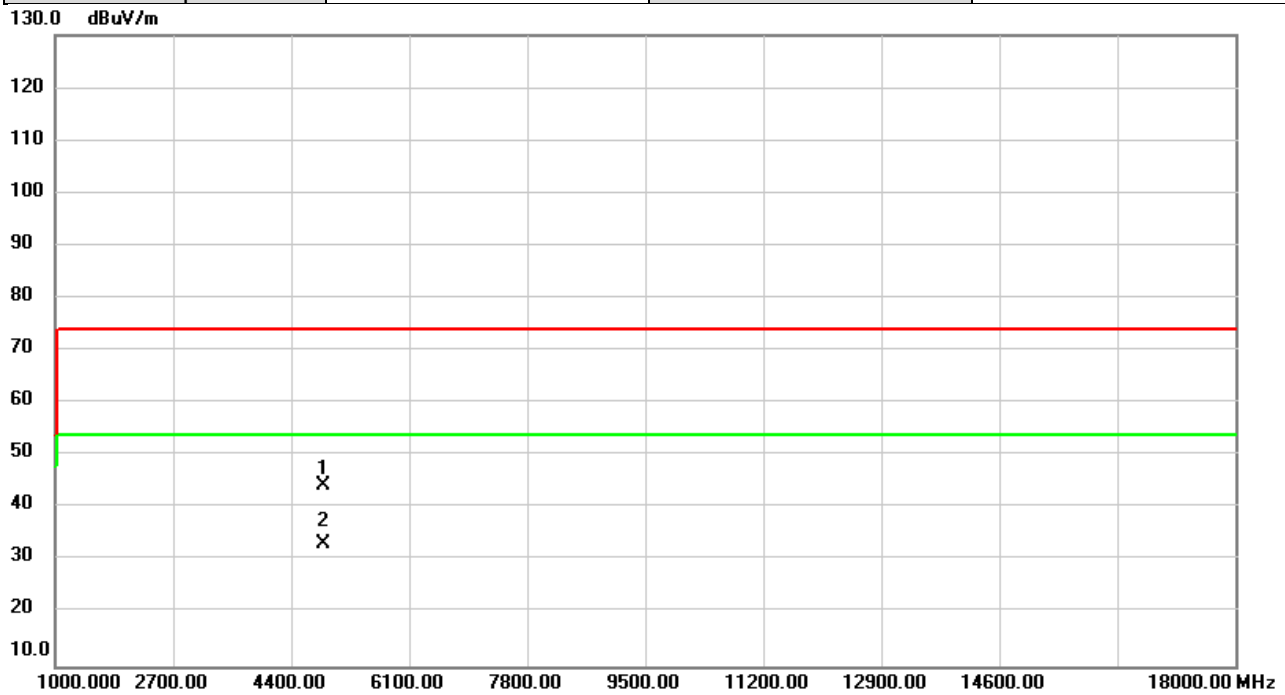


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	43.95	1.02	44.97	74.00	-29.03	peak	
2	*	4874.000	32.33	1.02	33.35	54.00	-20.65	AVG	

REMARKS:

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

Test Mode	IEEE 802.11g	Test Date	2024/11/12
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

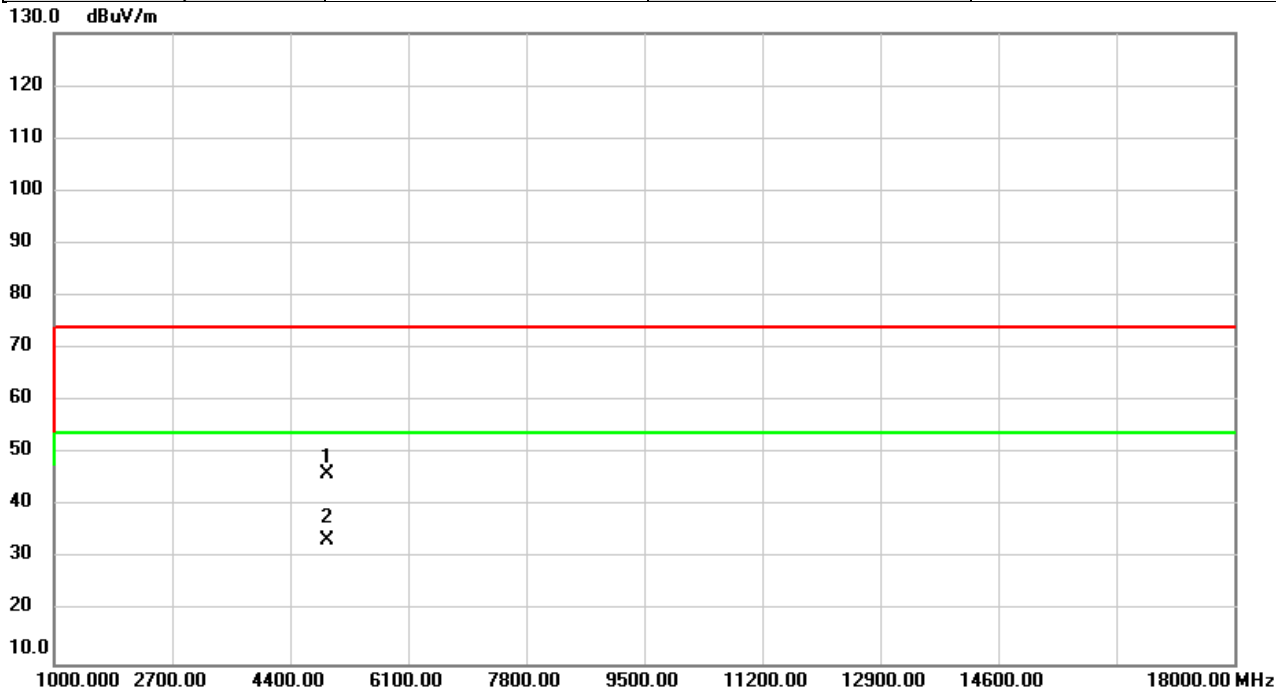


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	43.33	1.02	44.35	74.00	-29.65	peak	
2	*	4874.000	32.31	1.02	33.33	54.00	-20.67	AVG	

REMARKS:

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

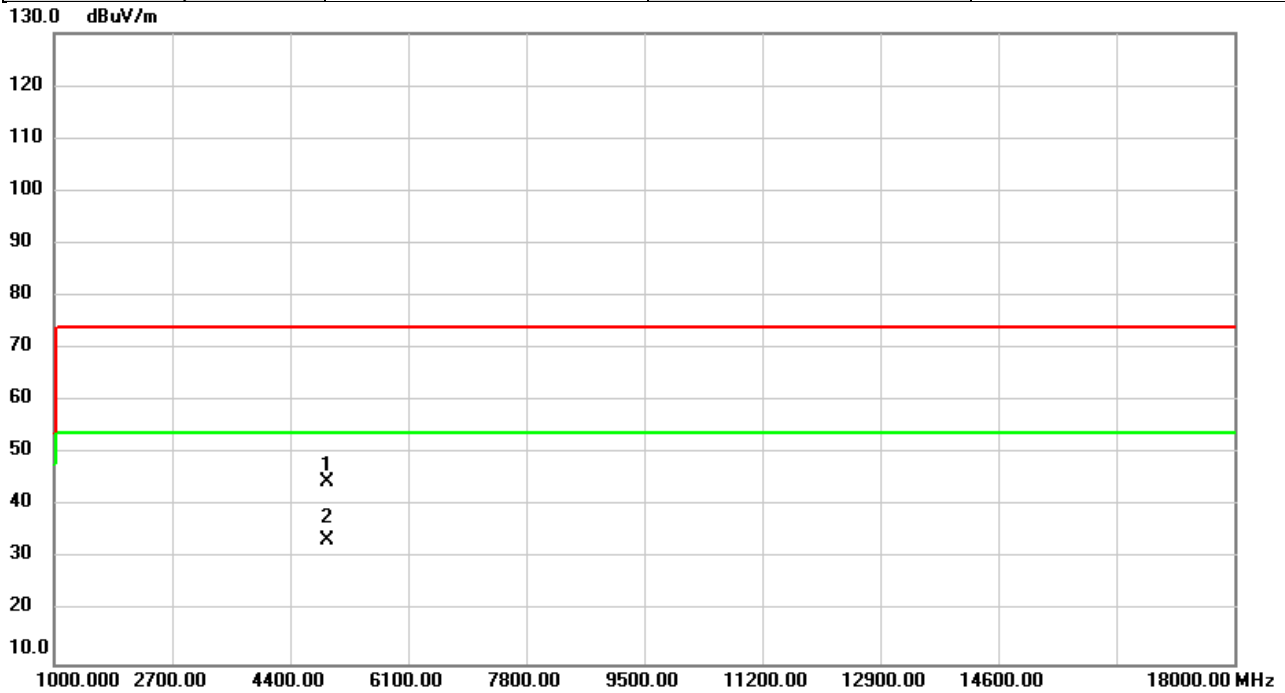
Test Mode	IEEE 802.11g	Test Date	2024/11/12
Test Frequency	2462MHz	Polarization	Vertical
Temp	23°C	Hum.	61%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	44.88	1.13	46.01	74.00	-27.99	peak	
2	*	4924.000	32.56	1.13	33.69	54.00	-20.31	AVG	

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

Test Mode	IEEE 802.11g	Test Date	2024/11/12
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

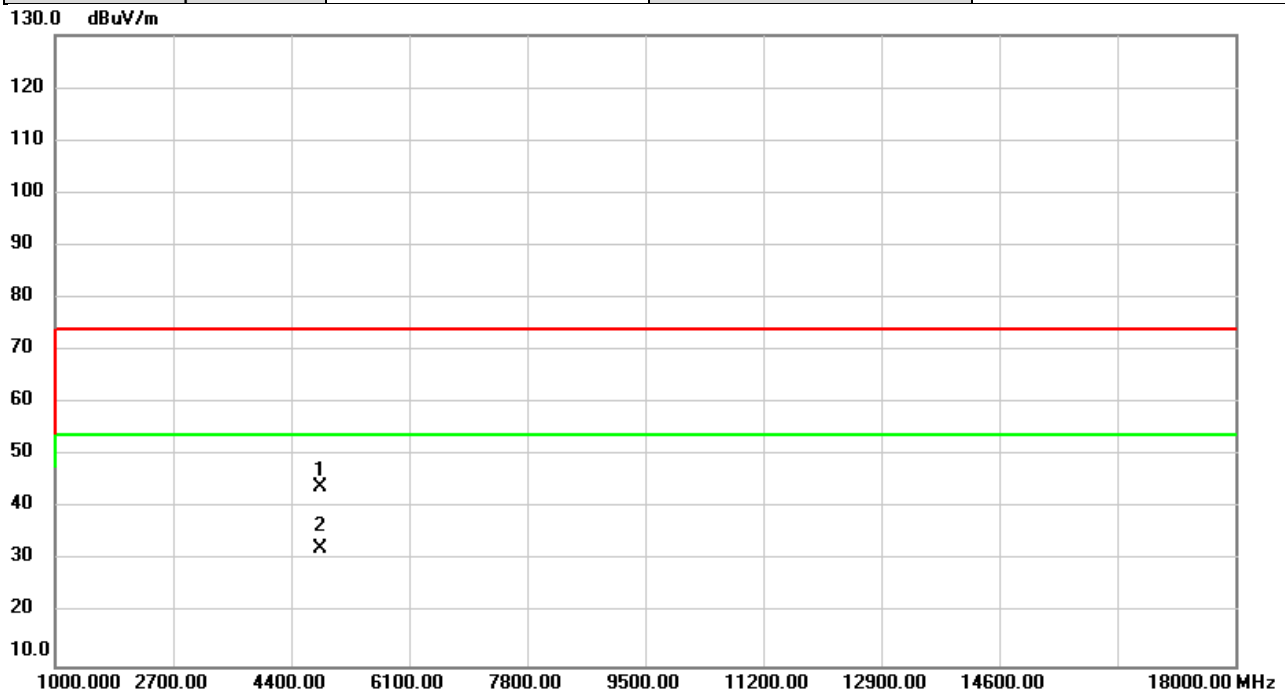


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	43.67	1.13	44.80	74.00	-29.20	peak	
2	*	4924.000	32.53	1.13	33.66	54.00	-20.34	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2024/11/12
Test Frequency	2412MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

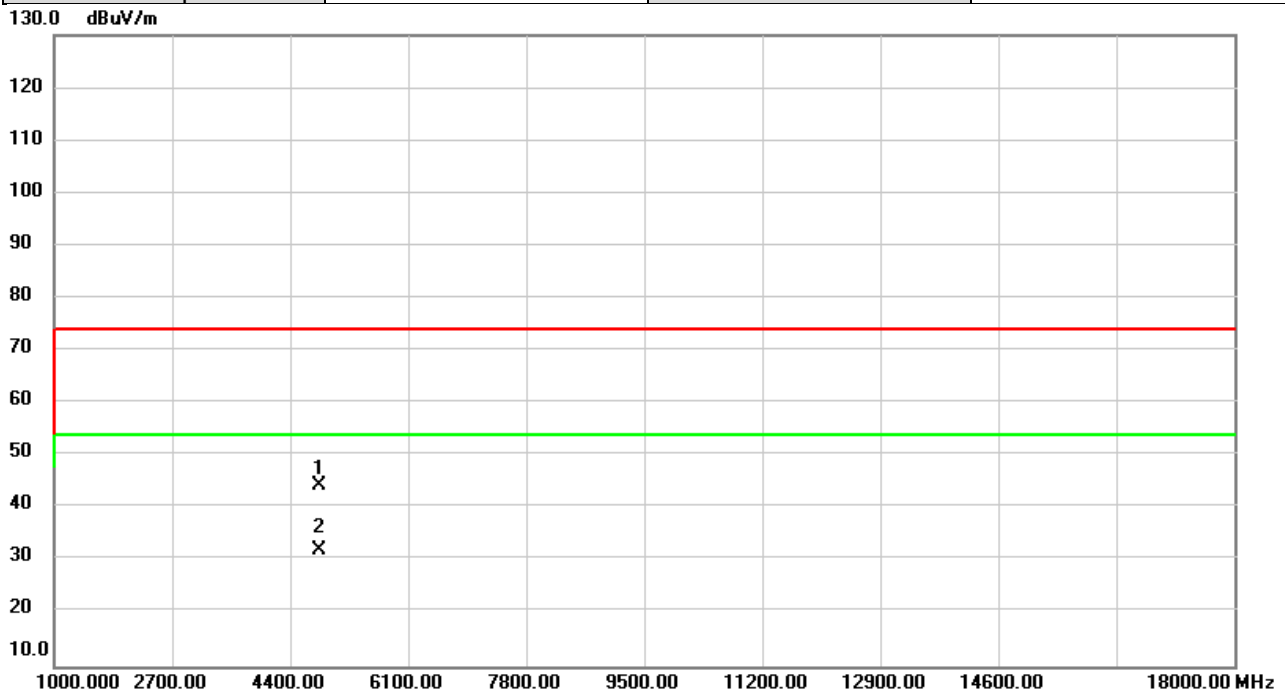


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	43.24	0.92	44.16	74.00	-29.84	peak	
2	*	4824.000	31.31	0.92	32.23	54.00	-21.77	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2024/11/12
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

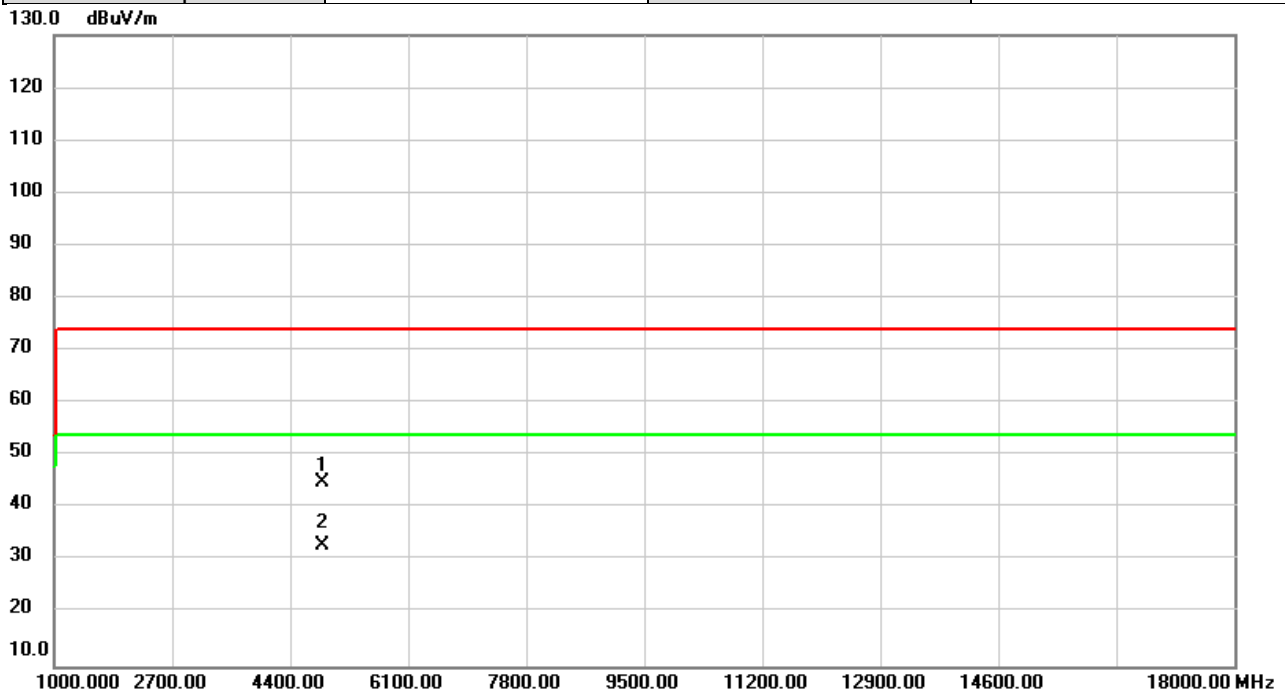


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	43.50	0.92	44.42	74.00	-29.58	peak	
2	*	4824.000	31.16	0.92	32.08	54.00	-21.92	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2024/11/12
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

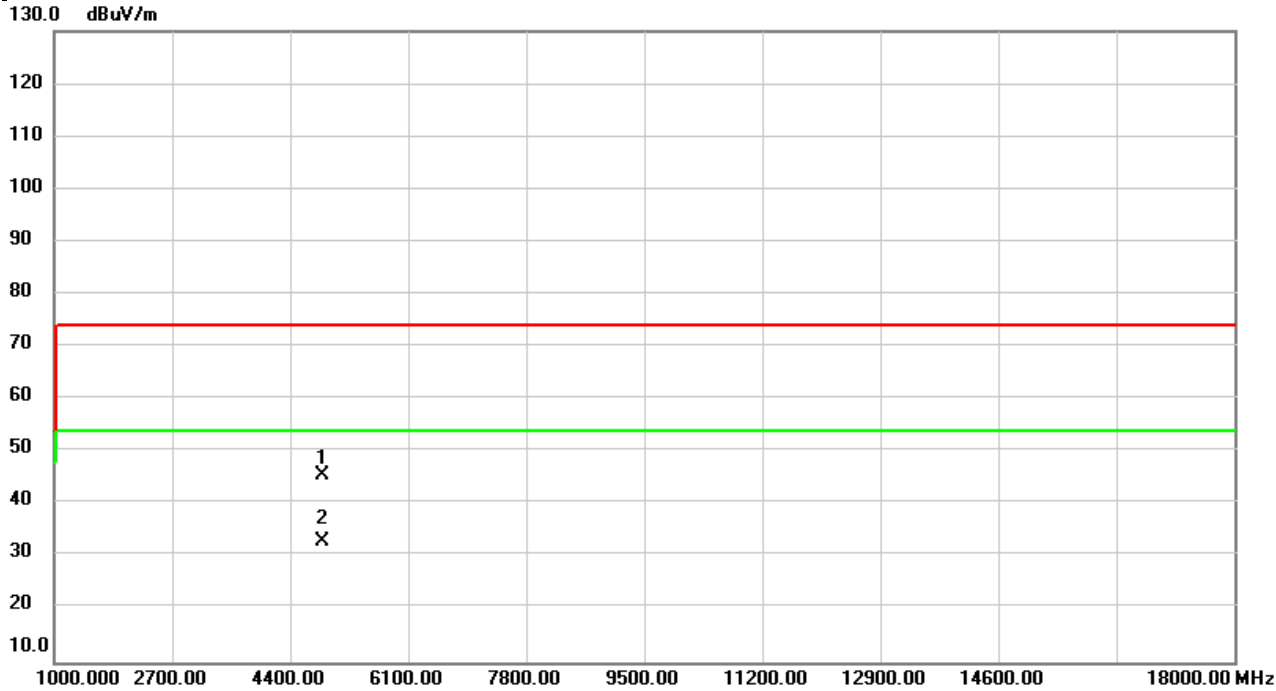


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	43.95	1.02	44.97	74.00	-29.03	peak	
2	*	4874.000	31.84	1.02	32.86	54.00	-21.14	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2024/11/12
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

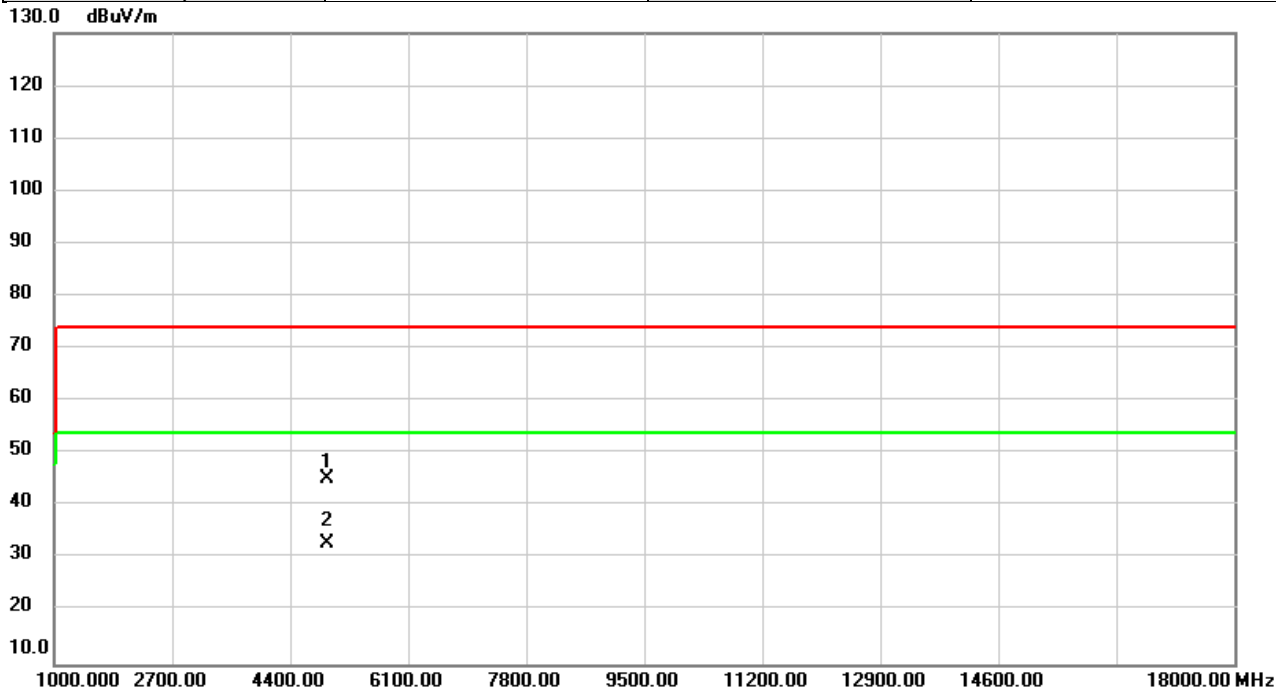


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	44.55	1.02	45.57	74.00	-28.43	peak	
2	*	4874.000	31.89	1.02	32.91	54.00	-21.09	AVG	

REMARKS:

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

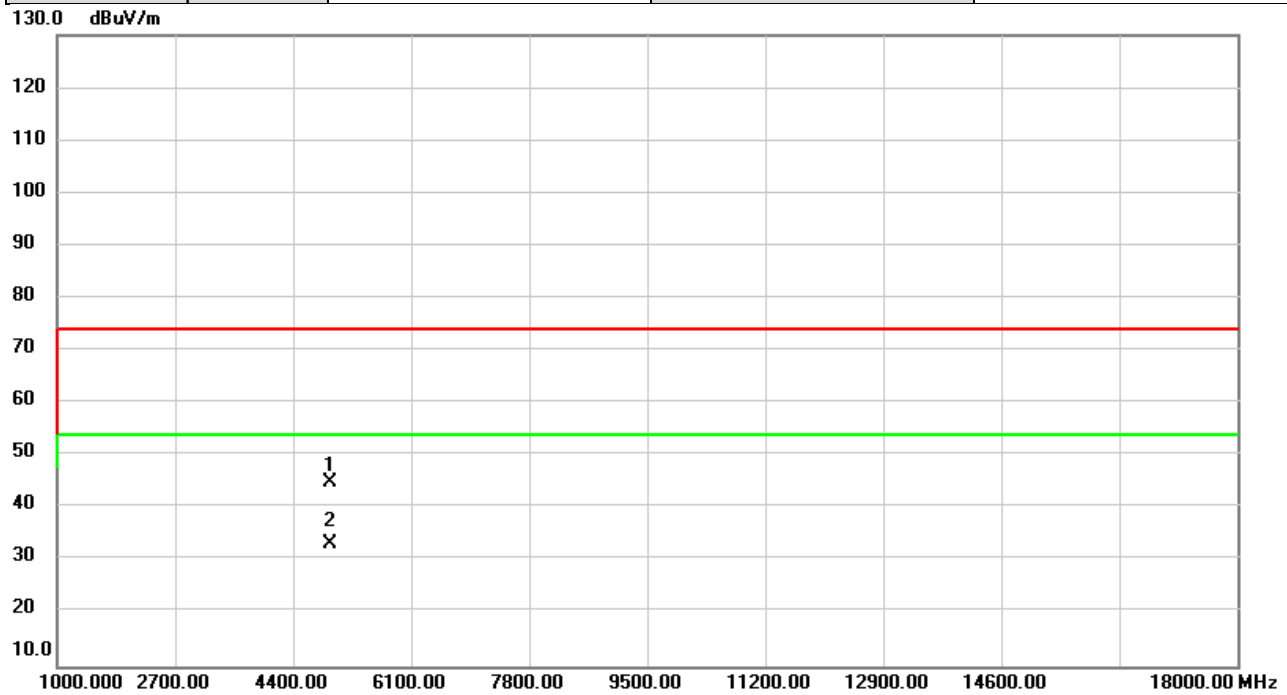
Test Mode	IEEE 802.11n (HT20)	Test Date	2024/11/12
Test Frequency	2462MHz	Polarization	Vertical
Temp	23°C	Hum.	61%



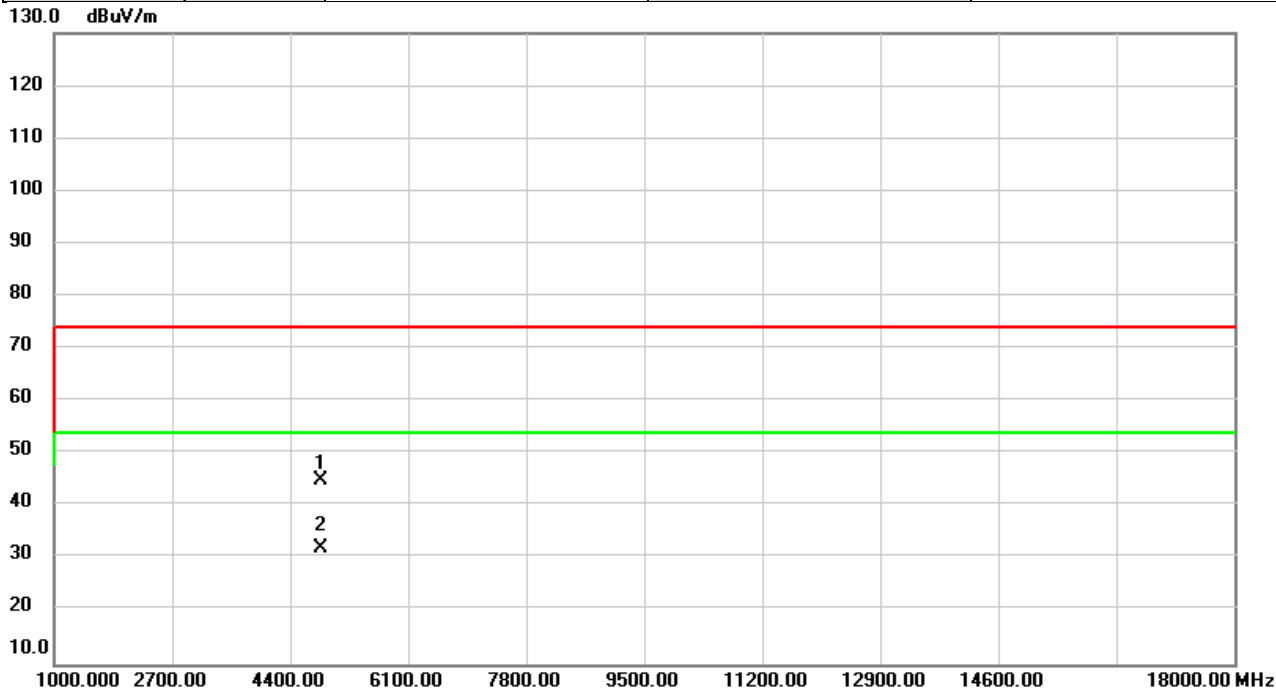
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	44.14	1.13	45.27	74.00	-28.73	peak	
2	*	4924.000	31.77	1.13	32.90	54.00	-21.10	AVG	

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

Test Mode	IEEE 802.11n (HT20)	Test Date	2024/11/12
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%



Test Mode	IEEE 802.11n (HT40)	Test Date	2024/11/12
Test Frequency	2422MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

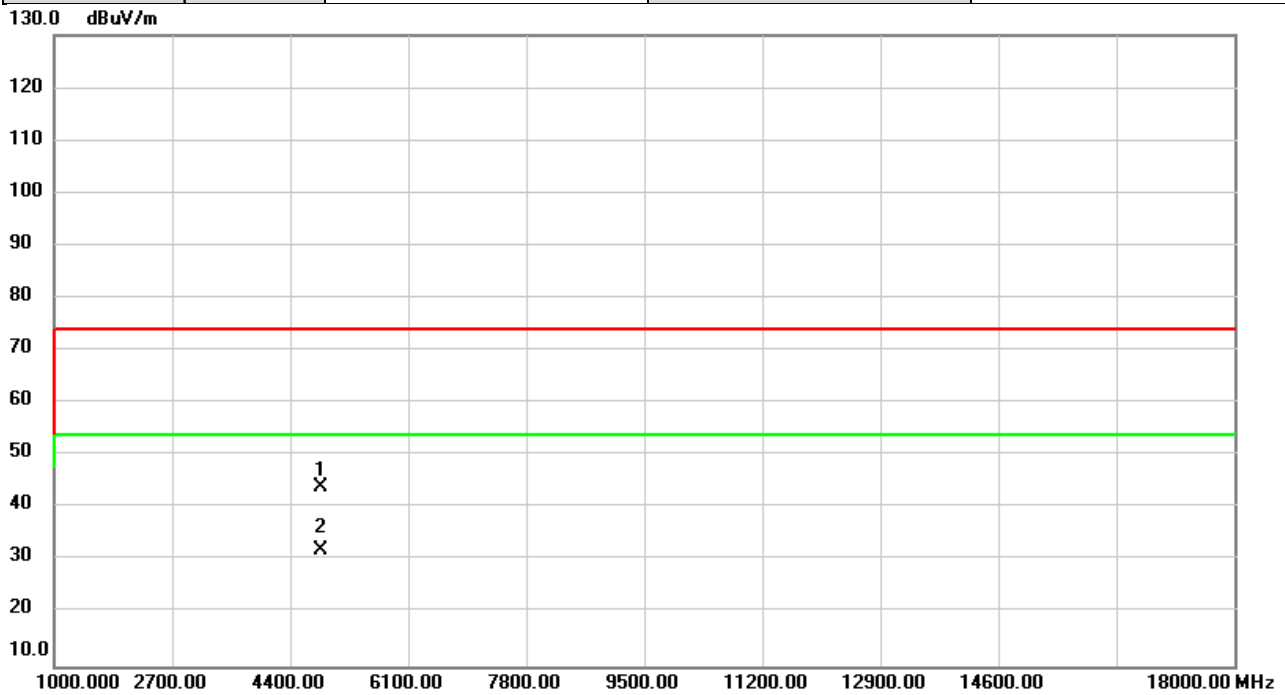


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	43.85	0.96	44.81	74.00	-29.19	peak	
2	*	4844.000	31.12	0.96	32.08	54.00	-21.92	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2024/11/12
Test Frequency	2422MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

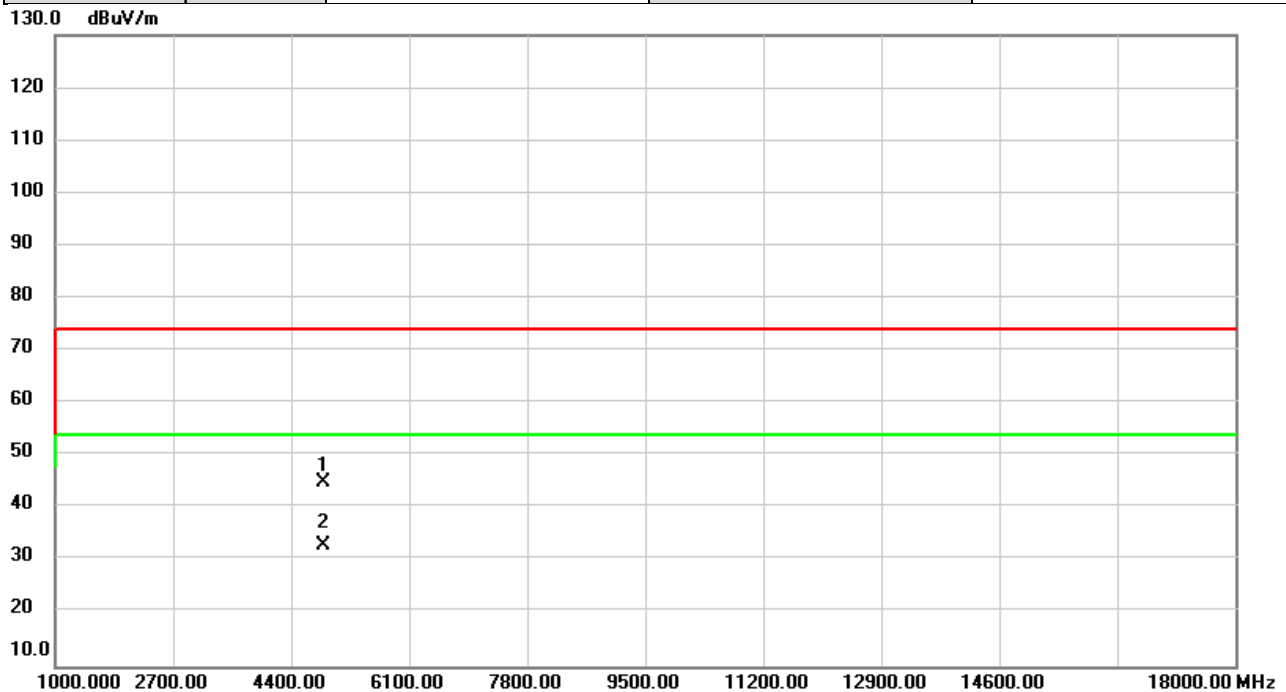


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4844.000	43.04	0.96	44.00	74.00	-30.00	peak	
2	*	4844.000	31.18	0.96	32.14	54.00	-21.86	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2024/11/12
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

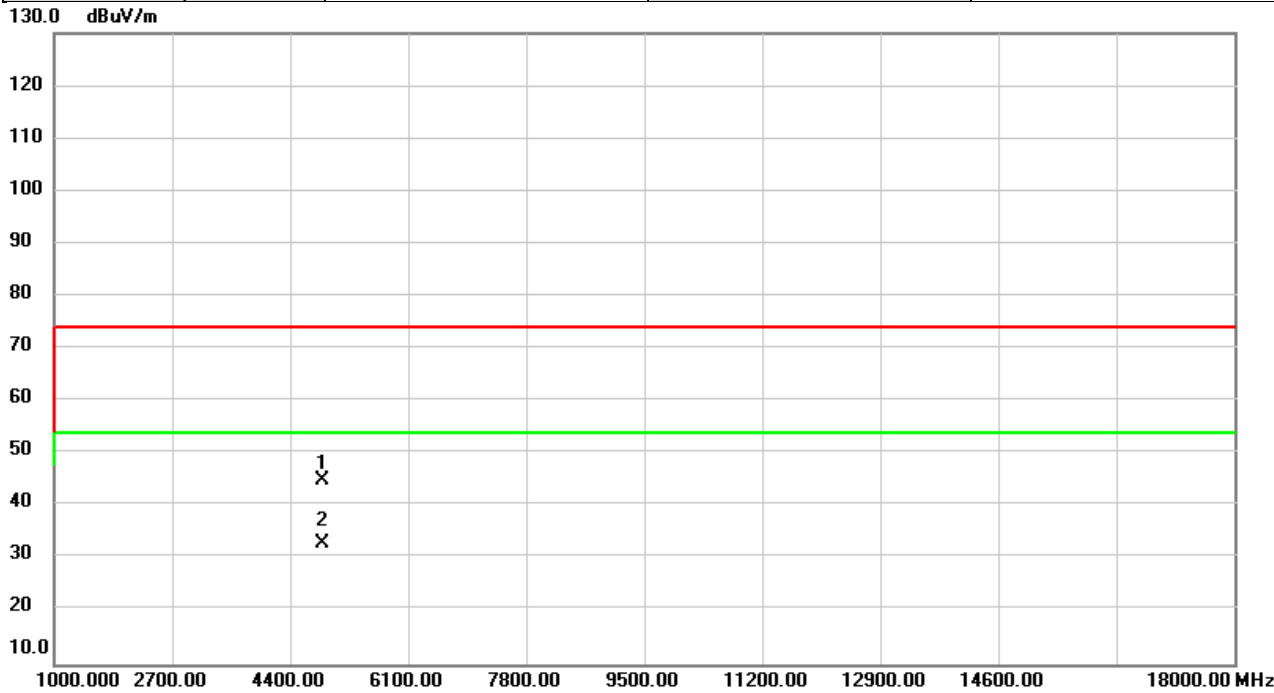


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	43.81	1.02	44.83	74.00	-29.17	peak	
2	*	4874.000	31.82	1.02	32.84	54.00	-21.16	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2024/11/12
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

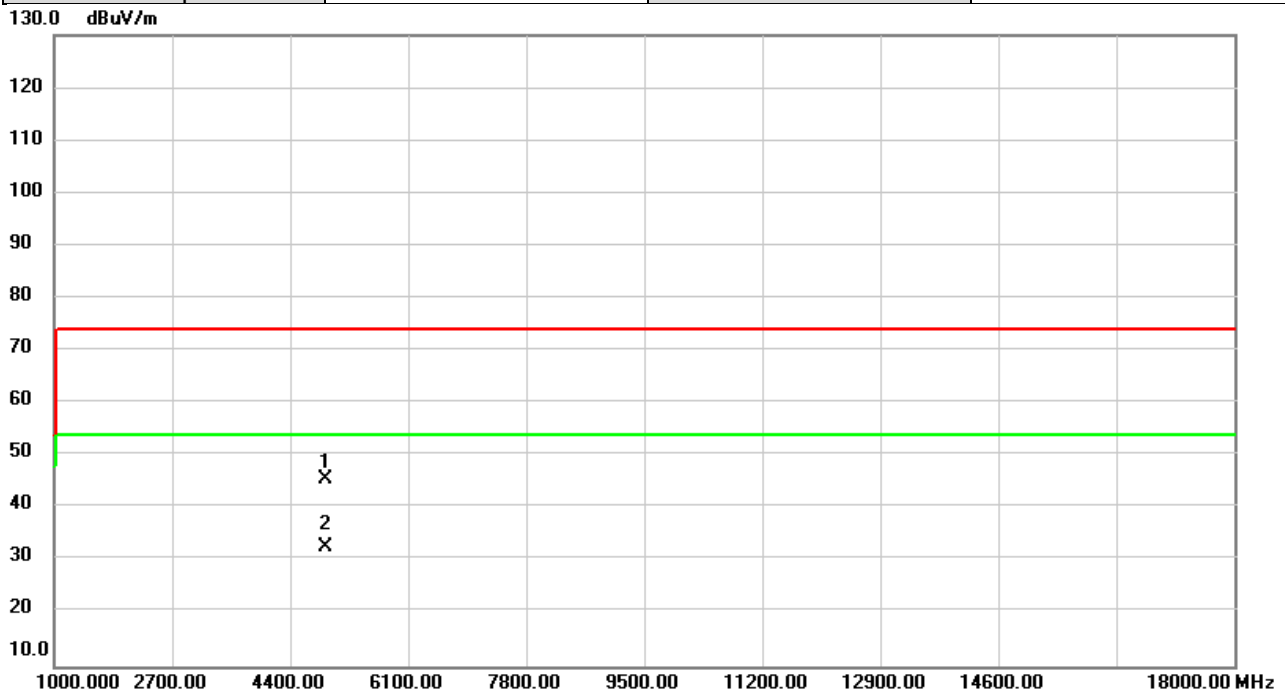


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	44.05	1.02	45.07	74.00	-28.93	peak	
2	*	4874.000	31.97	1.02	32.99	54.00	-21.01	AVG	

REMARKS:

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

Test Mode	IEEE 802.11n (HT40)	Test Date	2024/11/12
Test Frequency	2452MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

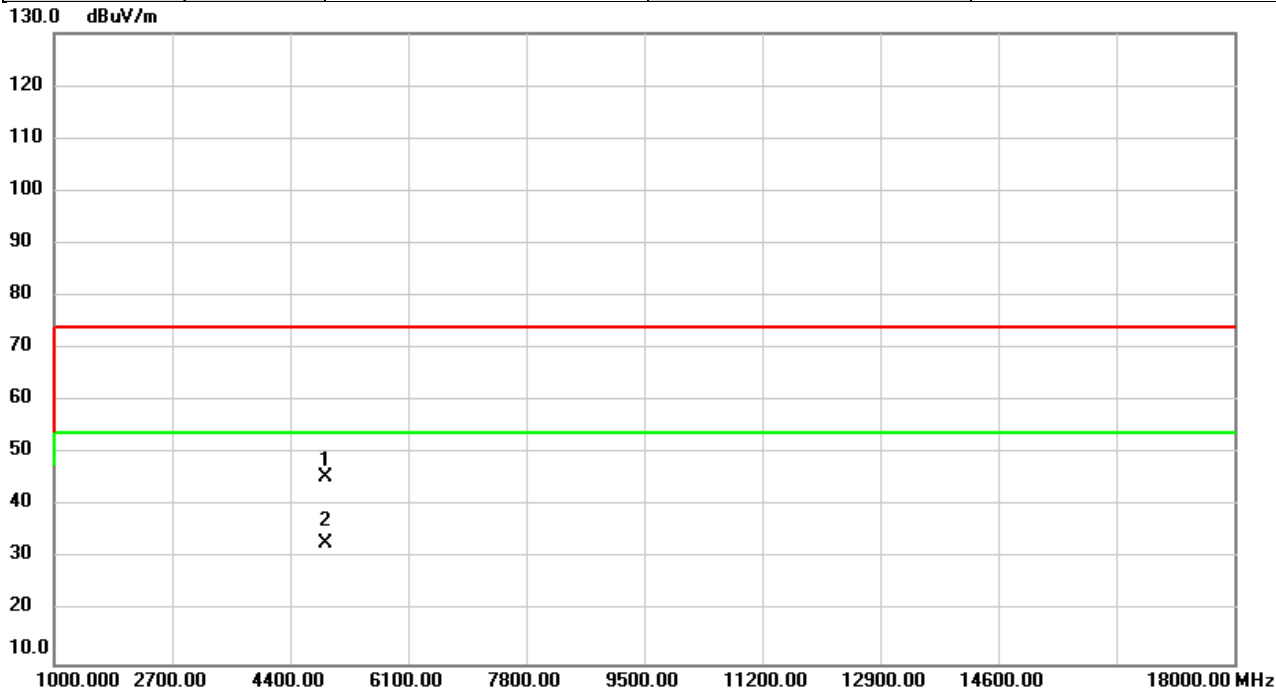


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4904.000	44.55	1.09	45.64	74.00	-28.36	peak	
2	*	4904.000	31.59	1.09	32.68	54.00	-21.32	AVG	

REMARKS:

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

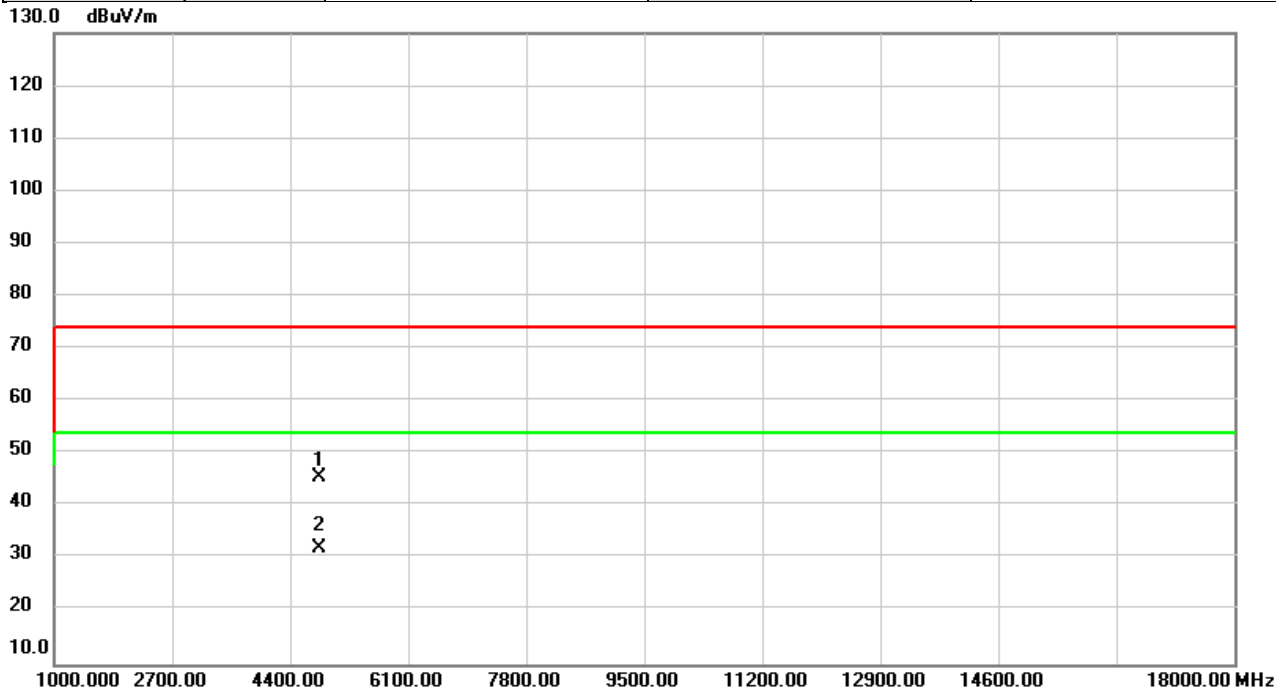
Test Mode	IEEE 802.11n (HT40)	Test Date	2024/11/12
Test Frequency	2452MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4904.000	44.57	1.09	45.66	74.00	-28.34	peak	
2	*	4904.000	31.75	1.09	32.84	54.00	-21.16	AVG	

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/11/12
Test Frequency	2412MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

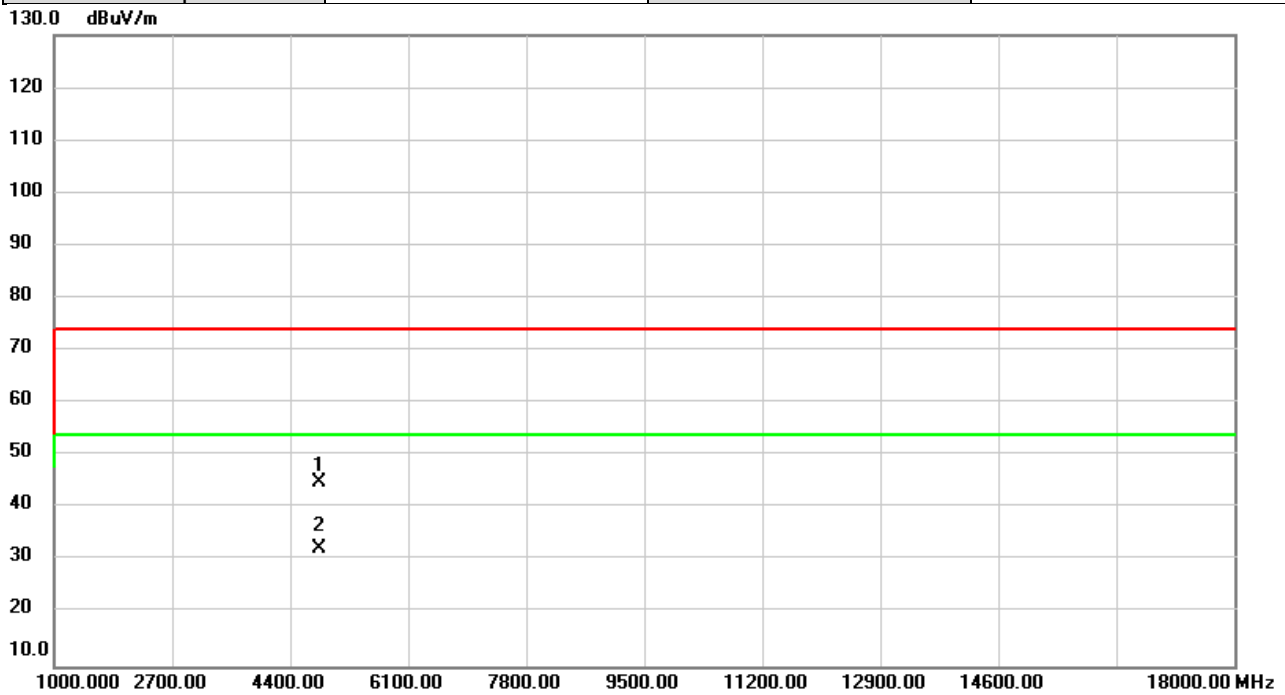


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	44.71	0.92	45.63	74.00	-28.37	peak	
2	*	4824.000	31.26	0.92	32.18	54.00	-21.82	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/11/12
Test Frequency	2412MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

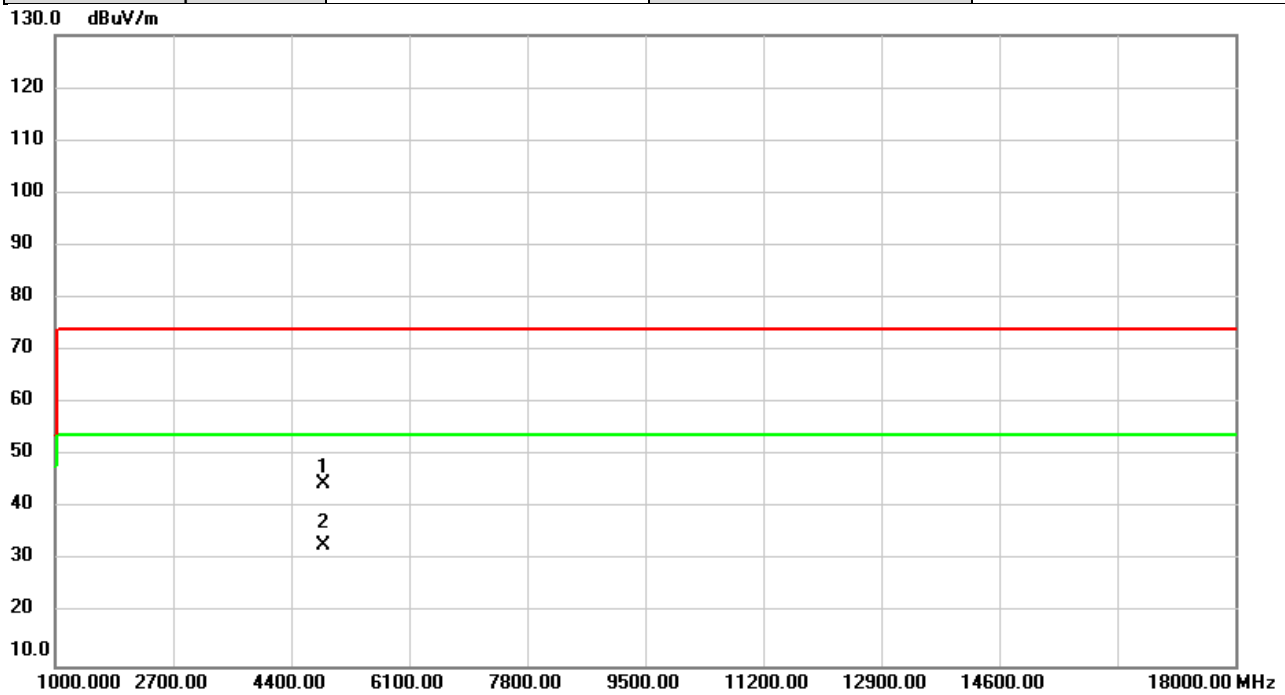


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	44.06	0.92	44.98	74.00	-29.02	peak	
2	*	4824.000	31.35	0.92	32.27	54.00	-21.73	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/11/12
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

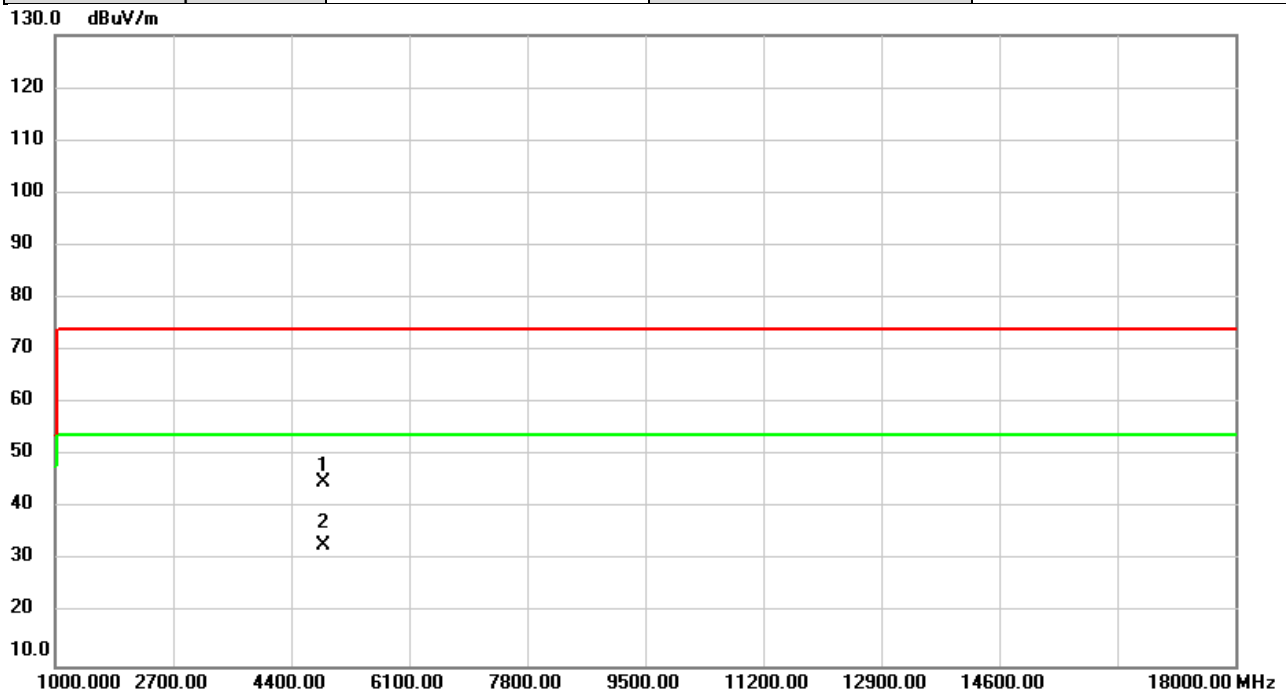


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	43.74	1.02	44.76	74.00	-29.24	peak	
2	*	4874.000	31.80	1.02	32.82	54.00	-21.18	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/11/12
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

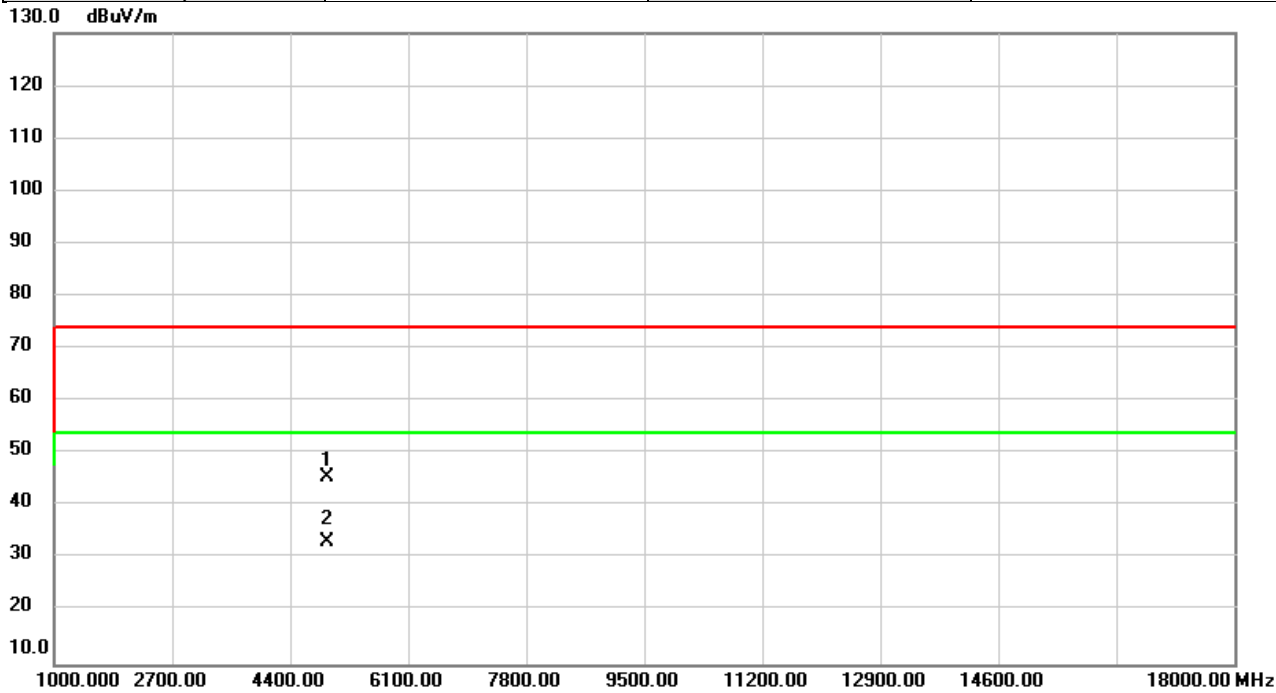


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	43.79	1.02	44.81	74.00	-29.19	peak	
2	*	4874.000	31.92	1.02	32.94	54.00	-21.06	AVG	

REMARKS:

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

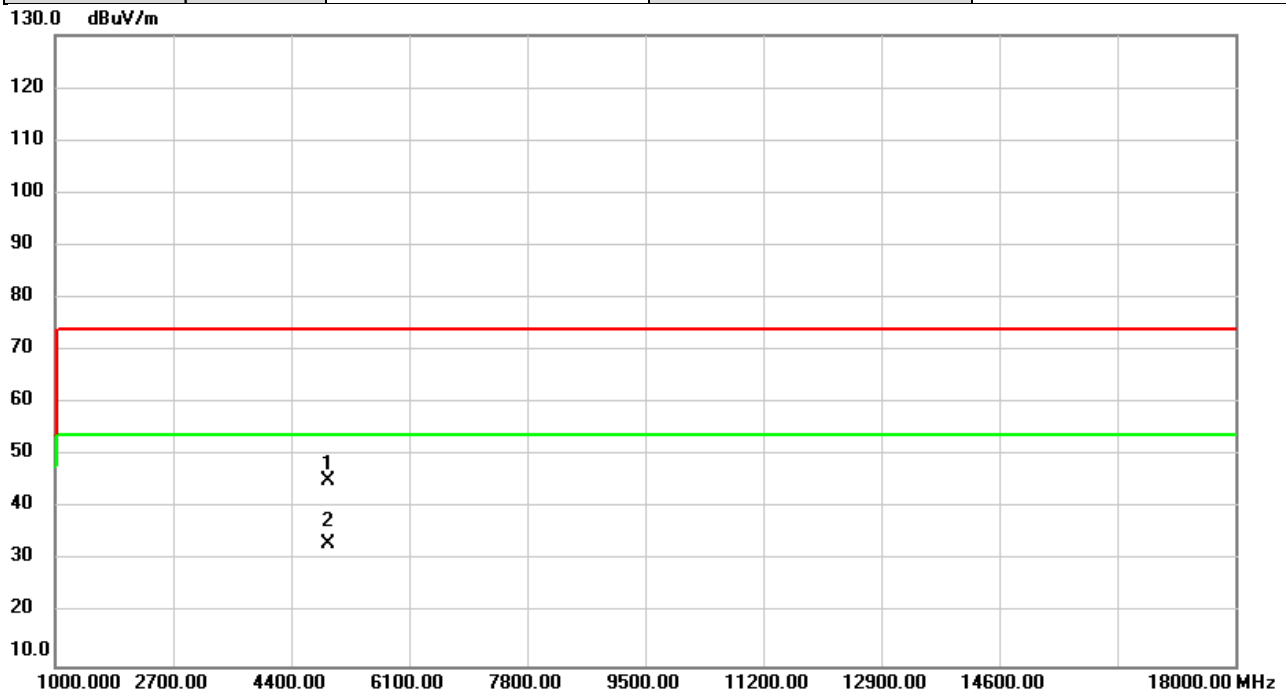
Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/11/12
Test Frequency	2462MHz	Polarization	Vertical
Temp	23°C	Hum.	61%



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	44.56	1.13	45.69	74.00	-28.31	peak	
2	*	4924.000	31.97	1.13	33.10	54.00	-20.90	AVG	

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

Test Mode	IEEE 802.11ax (HE20)	Test Date	2024/11/12
Test Frequency	2462MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

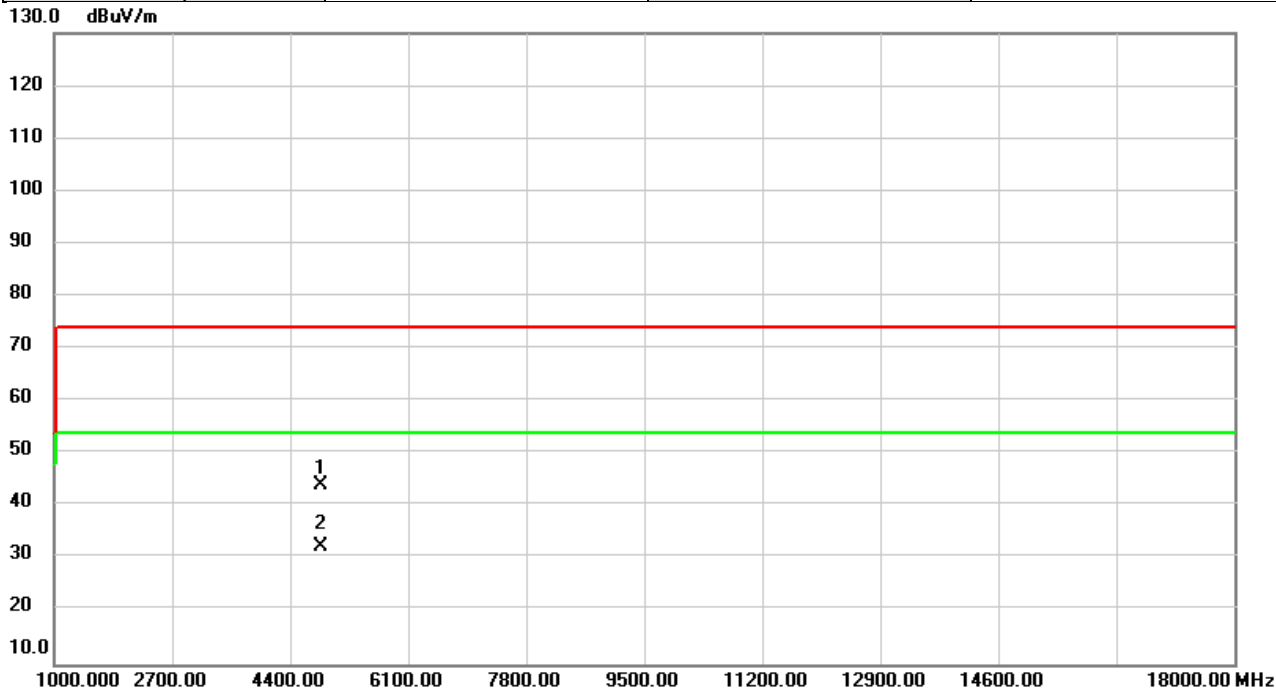


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	44.03	1.13	45.16	74.00	-28.84	peak	
2	*	4924.000	32.09	1.13	33.22	54.00	-20.78	AVG	

REMARKS:

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

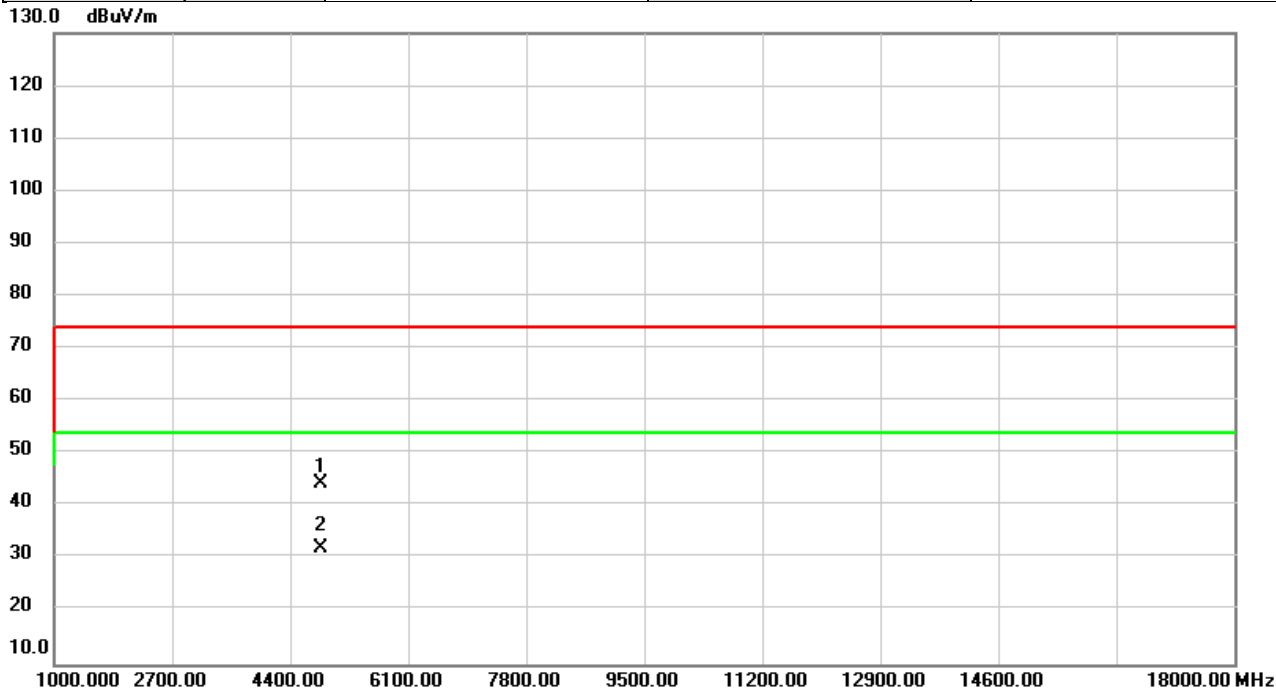
Test Mode	IEEE 802.11ax (HE40)	Test Date	2024/11/12
Test Frequency	2422MHz	Polarization	Vertical
Temp	23°C	Hum.	61%



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4844.000	43.16	0.96	44.12	74.00	-29.88	peak	
2	*	4844.000	31.30	0.96	32.26	54.00	-21.74	AVG	

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

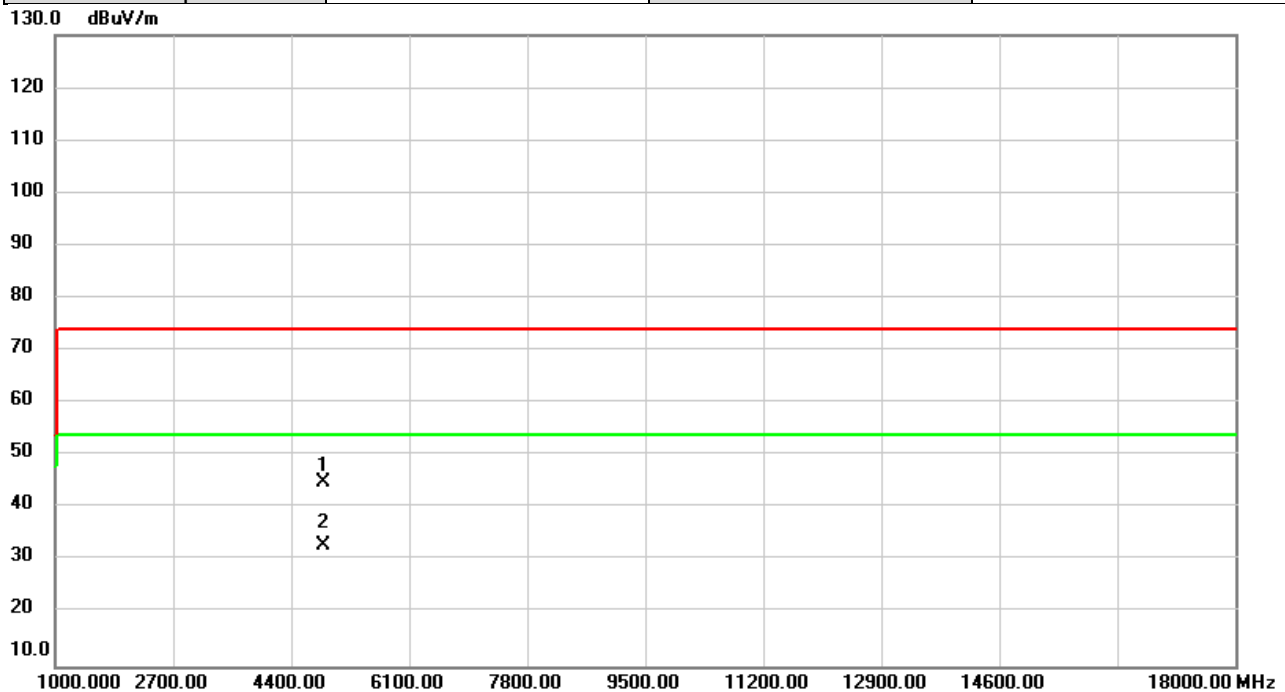
Test Mode	IEEE 802.11ax (HE40)	Test Date	2024/11/12
Test Frequency	2422MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4844.000	43.49	0.96	44.45	74.00	-29.55	peak	
2	*	4844.000	31.21	0.96	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 802.11ax (HE40)	Test Date	2024/11/12
Test Frequency	2437MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

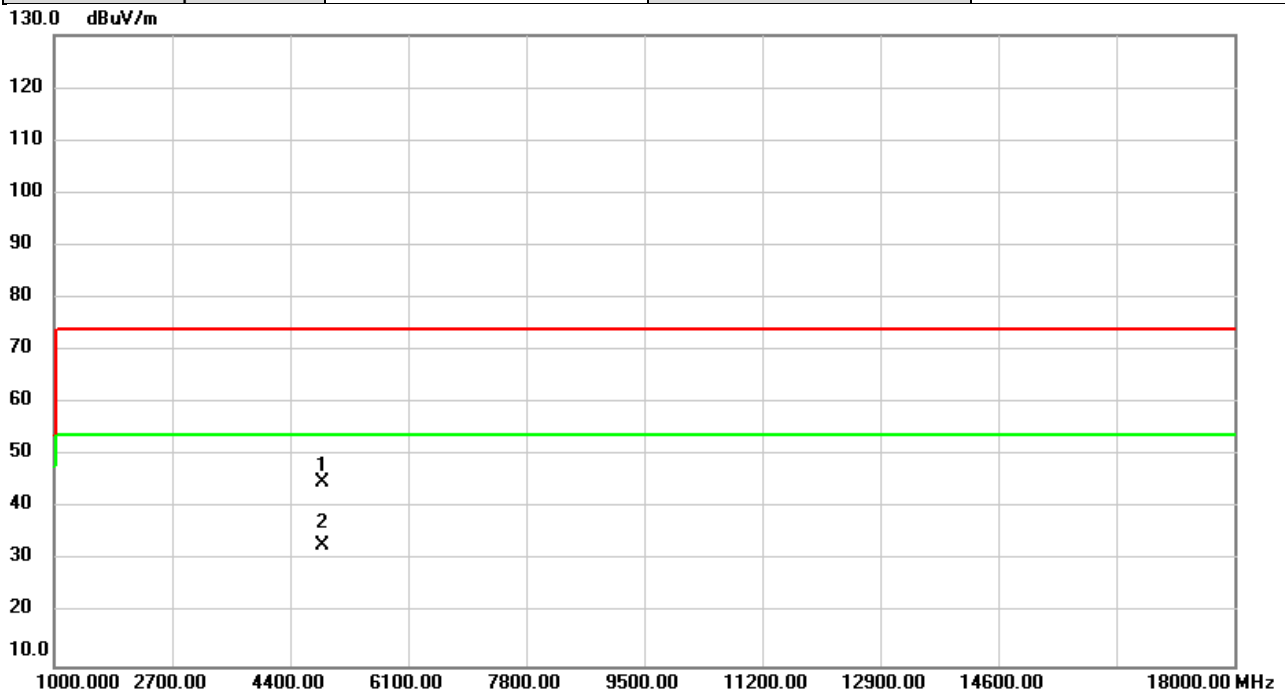


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	43.86	1.02	44.88	74.00	-29.12	peak	
2	*	4874.000	32.04	1.02	33.06	54.00	-20.94	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2024/11/12
Test Frequency	2437MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%

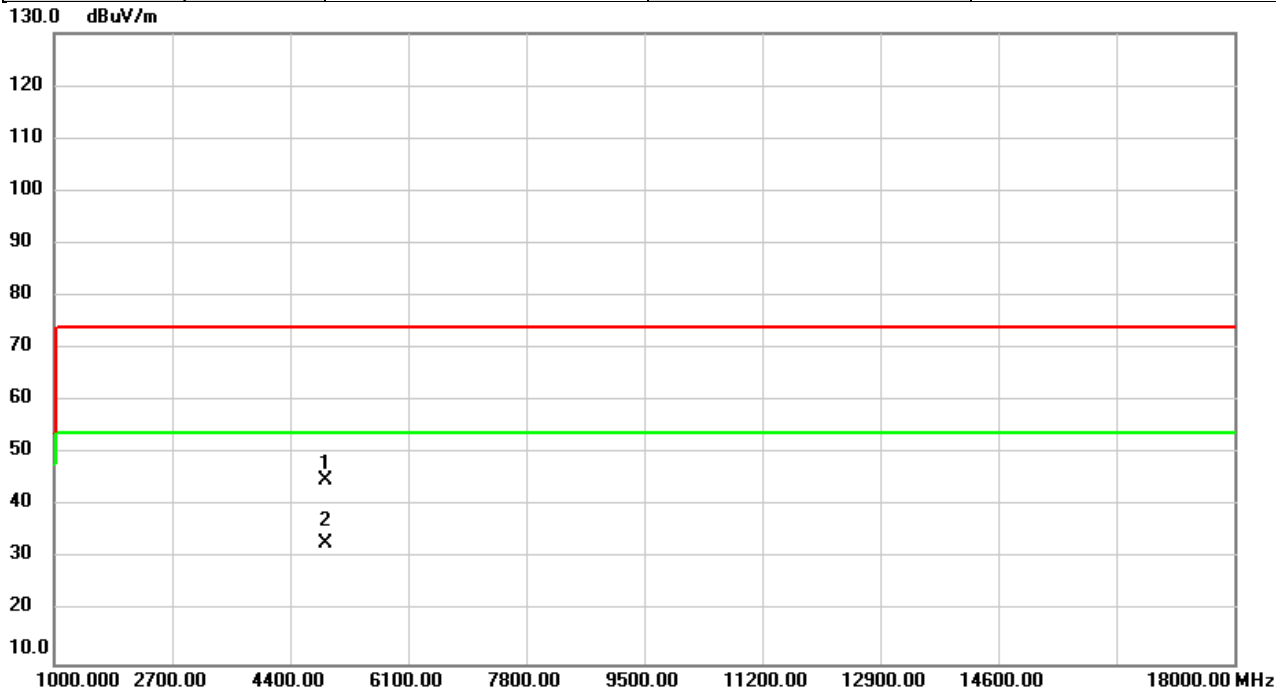


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	43.91	1.02	44.93	74.00	-29.07	peak	
2	*	4874.000	31.92	1.02	32.94	54.00	-21.06	AVG	

REMARKS:

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

Test Mode	IEEE 802.11ax (HE40)	Test Date	2024/11/12
Test Frequency	2452MHz	Polarization	Vertical
Temp	23°C	Hum.	61%

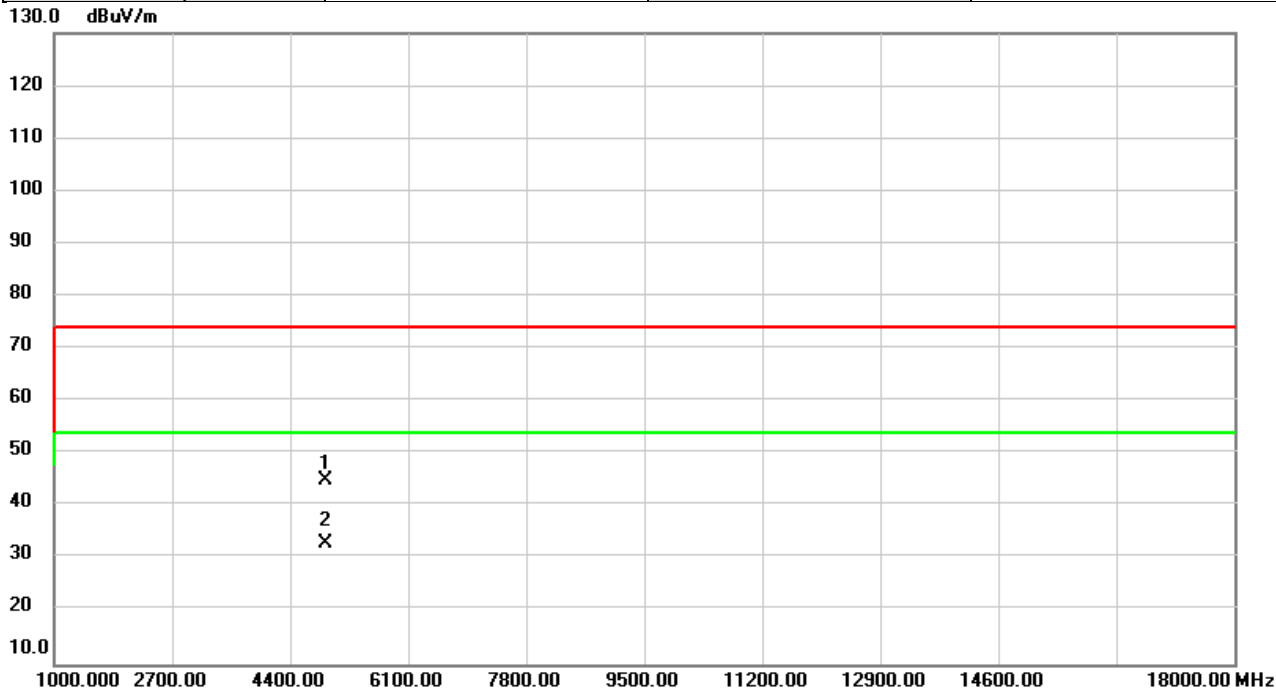


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	43.98	1.09	45.07	74.00	-28.93	peak	
2	*	4904.000	31.89	1.09	32.98	54.00	-21.02	AVG	

REMARKS:

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

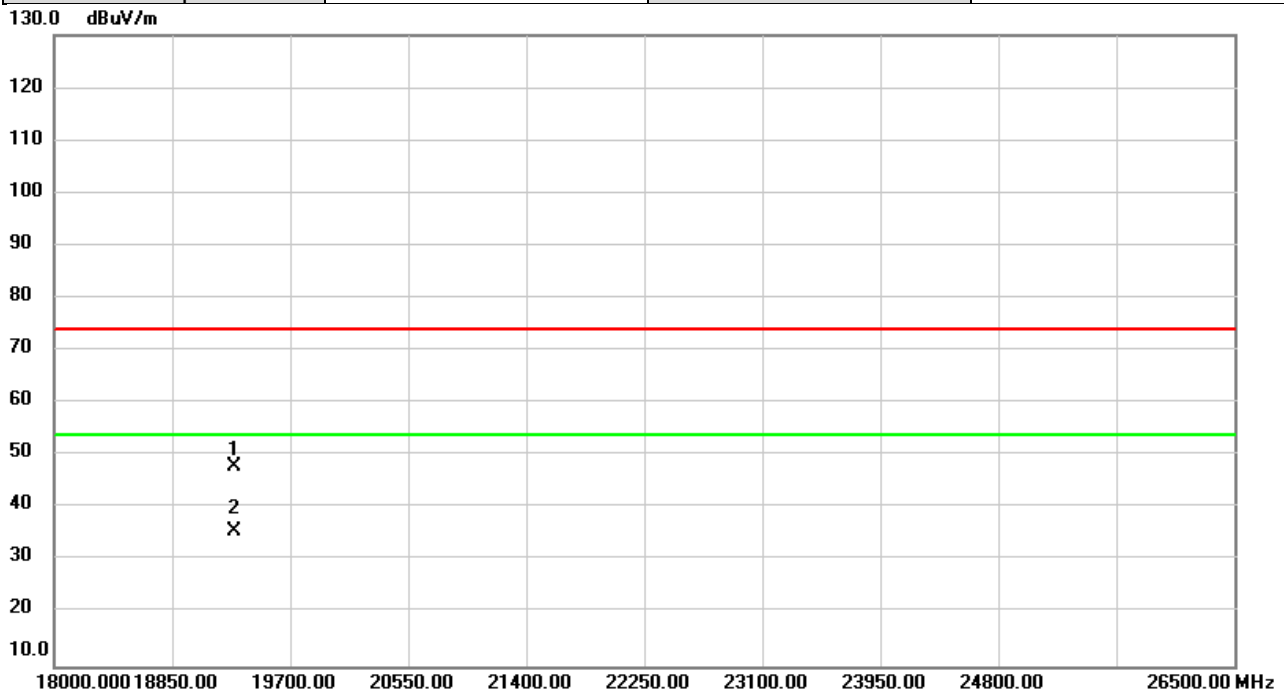
Test Mode	IEEE 802.11ax (HE40)	Test Date	2024/11/12
Test Frequency	2452MHz	Polarization	Horizontal
Temp	23°C	Hum.	61%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	43.92	1.09	45.01	74.00	-28.99	peak	
2	*	4904.000	31.79	1.09	32.88	54.00	-21.12	AVG	

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

Test Mode	IEEE 802.11b	Test Date	2024/11/15
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	62%

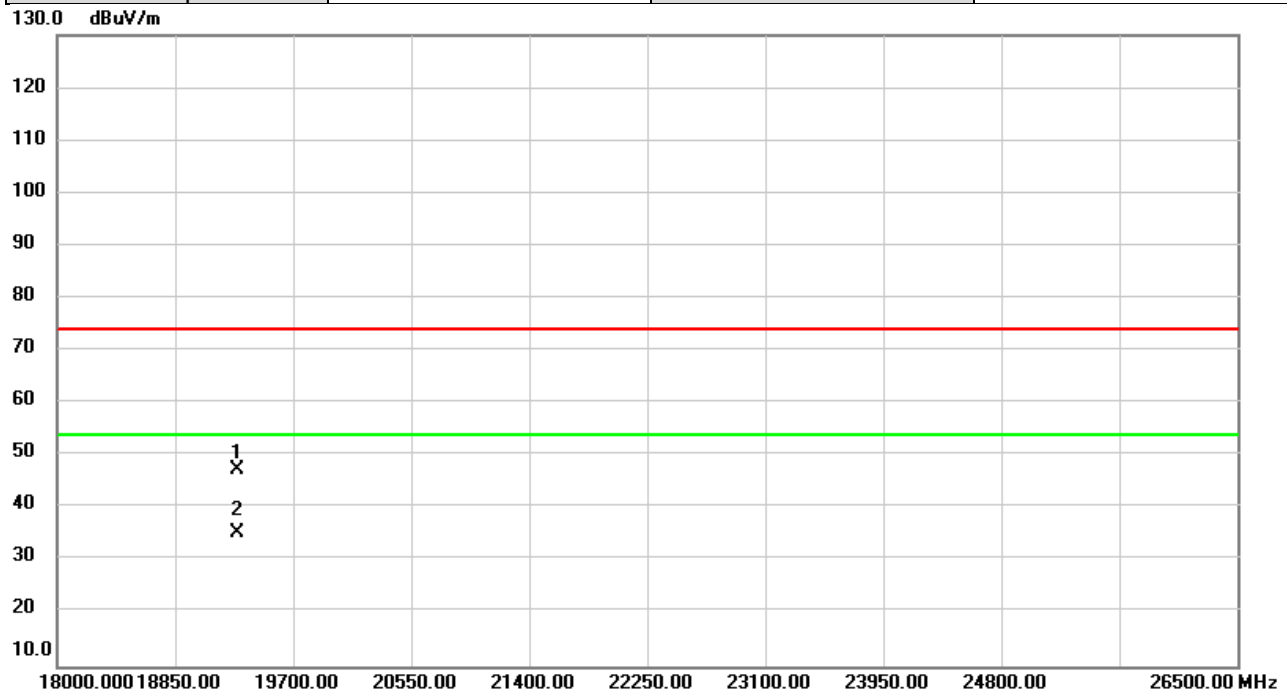


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		19296.00	54.60	-6.78	47.82	74.00	-26.18	peak	
2	*	19296.00	42.36	-6.78	35.58	54.00	-18.42	AVG	

REMARKS:

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

Test Mode	IEEE 802.11b	Test Date	2024/11/15
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		19296.00	53.99	-6.78	47.21	74.00	-26.79	peak	
2	*	19296.00	42.27	-6.78	35.49	54.00	-18.51	AVG	

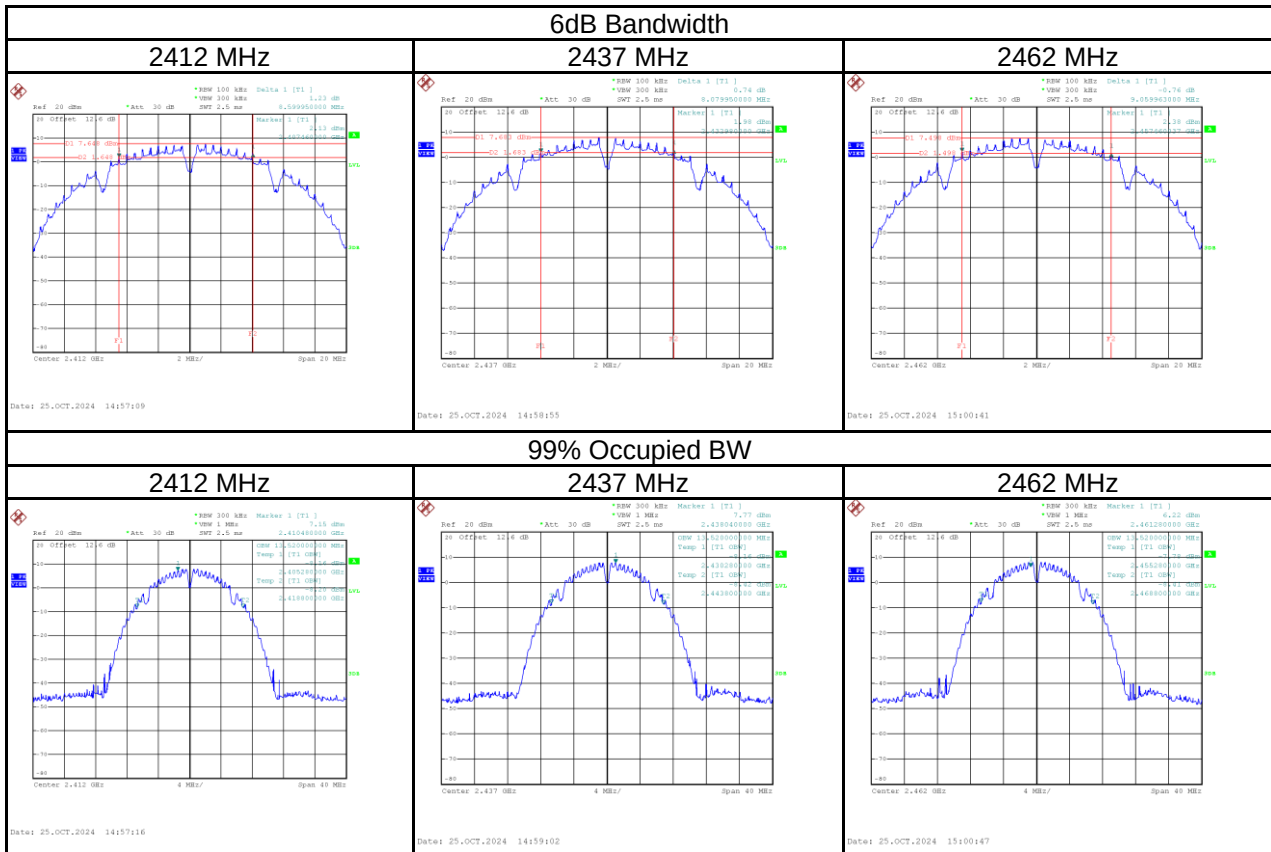
REMARKS:

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

APPENDIX E BANDWIDTH

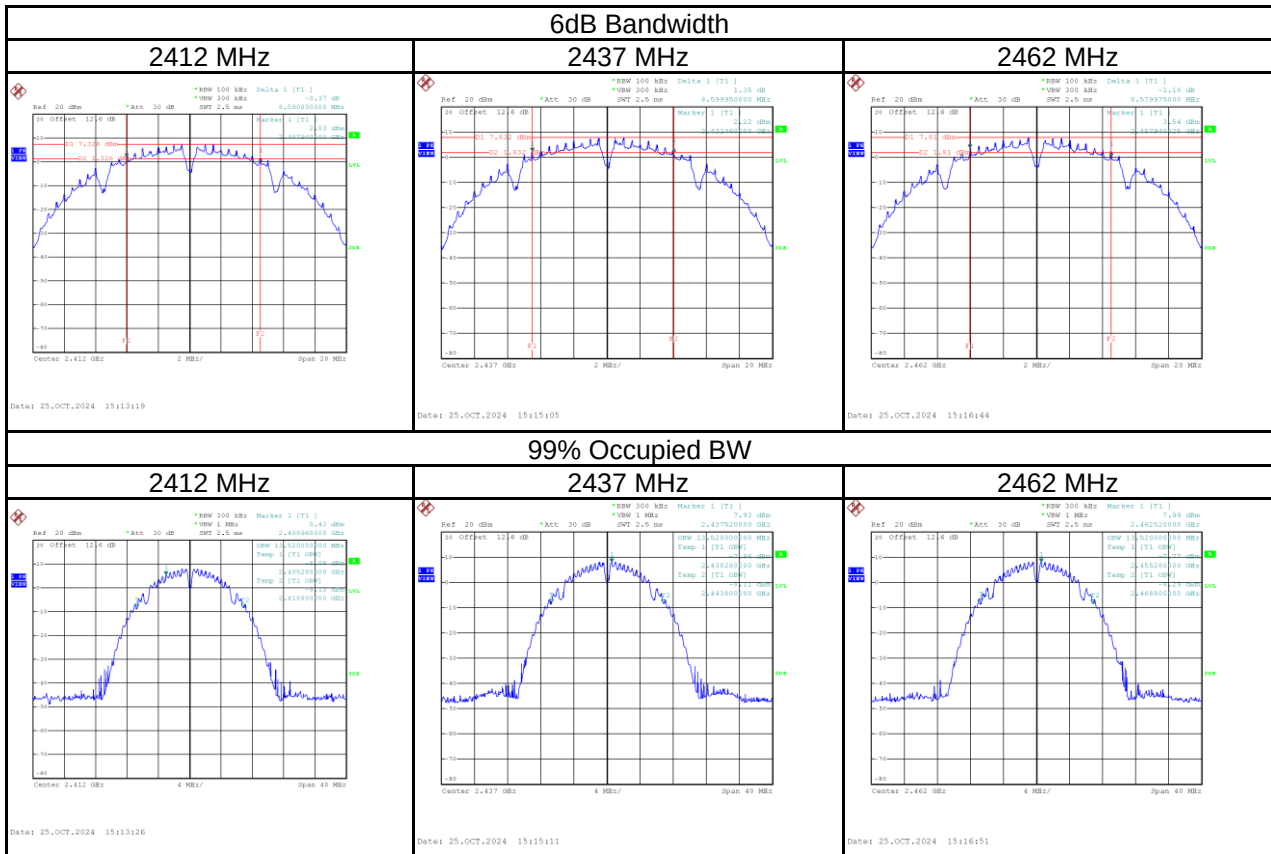
Test Mode	IEEE 802.11b_Aux Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	8.60	13.52	≥ 500	Pass
2437	8.08	13.52	≥ 500	Pass
2462	9.06	13.52	≥ 500	Pass



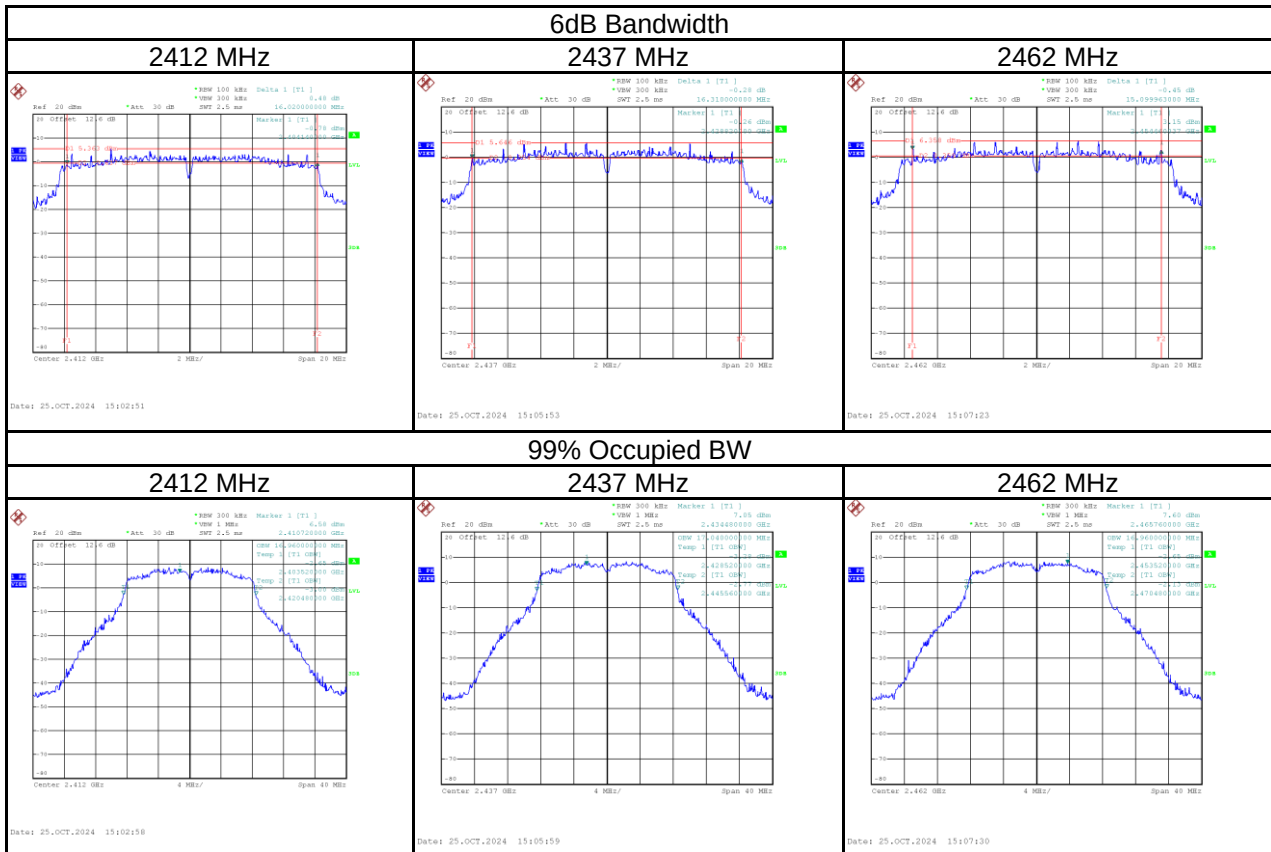
Test Mode	IEEE 802.11b_Main Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	8.59	13.52	≥ 500	Pass
2437	8.60	13.52	≥ 500	Pass
2462	8.58	13.52	≥ 500	Pass



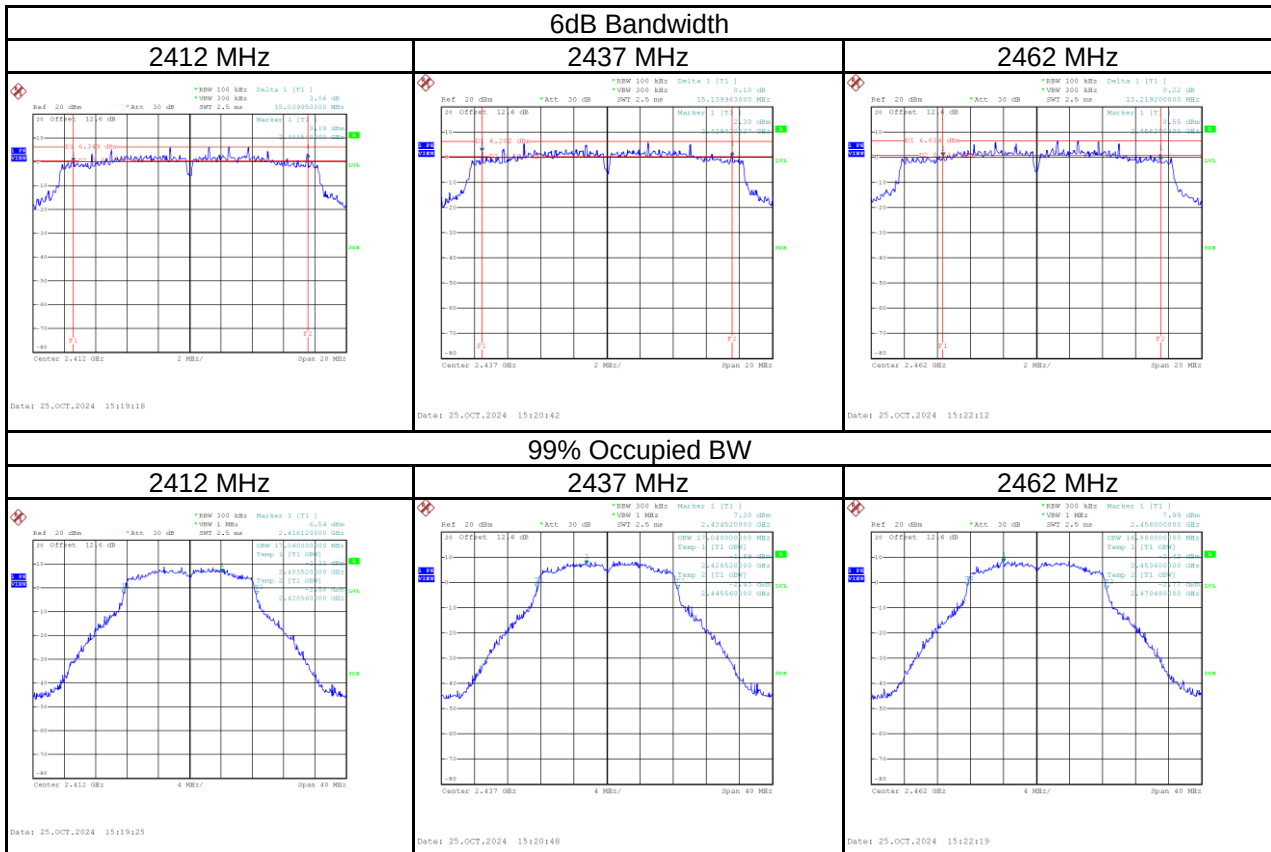
Test Mode	IEEE 802.11g_ Aux Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	16.02	16.96	≥ 500	Pass
2437	16.31	17.04	≥ 500	Pass
2462	15.10	16.96	≥ 500	Pass



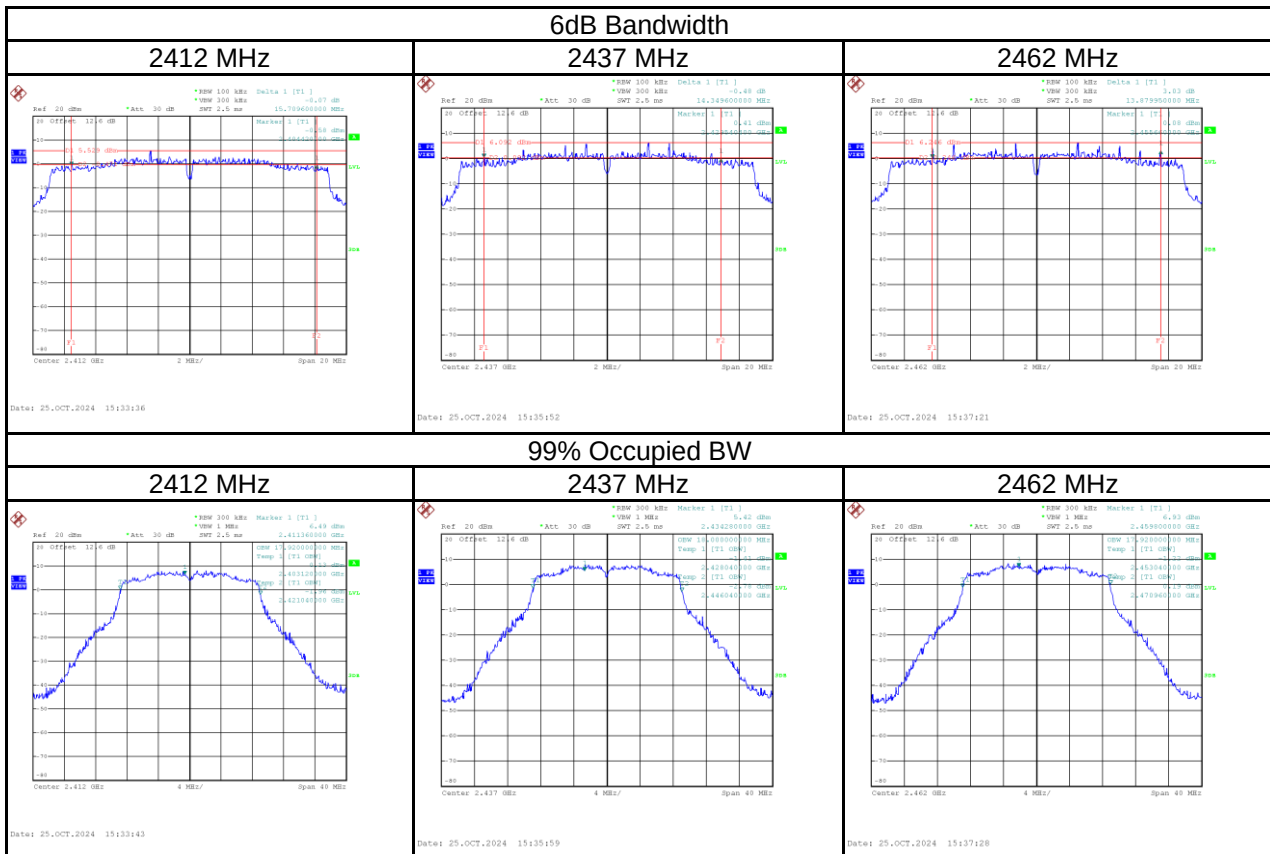
Test Mode	IEEE 802.11g_ Main Antenna
-----------	----------------------------

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	15.04	17.04	≥ 500	Pass
2437	15.14	17.04	≥ 500	Pass
2462	13.22	16.88	≥ 500	Pass



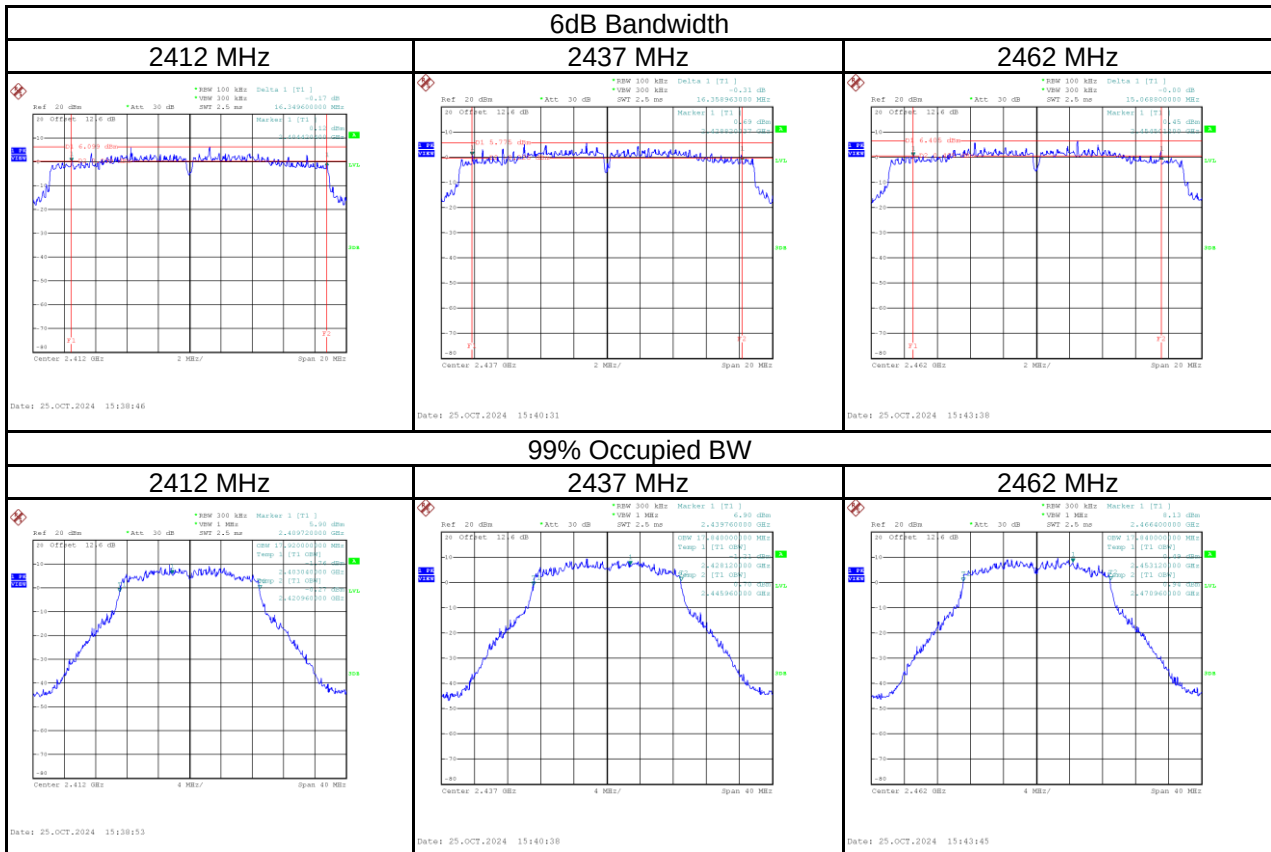
Test Mode	IEEE 802.11n (HT20)_ Aux Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	15.71	17.92	≥ 500	Pass
2437	14.35	18.00	≥ 500	Pass
2462	13.88	17.92	≥ 500	Pass



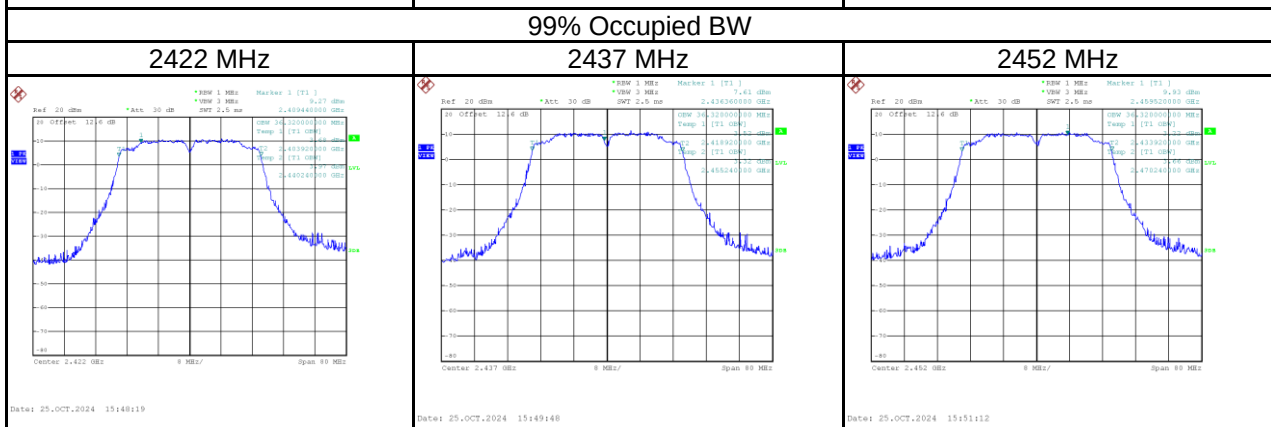
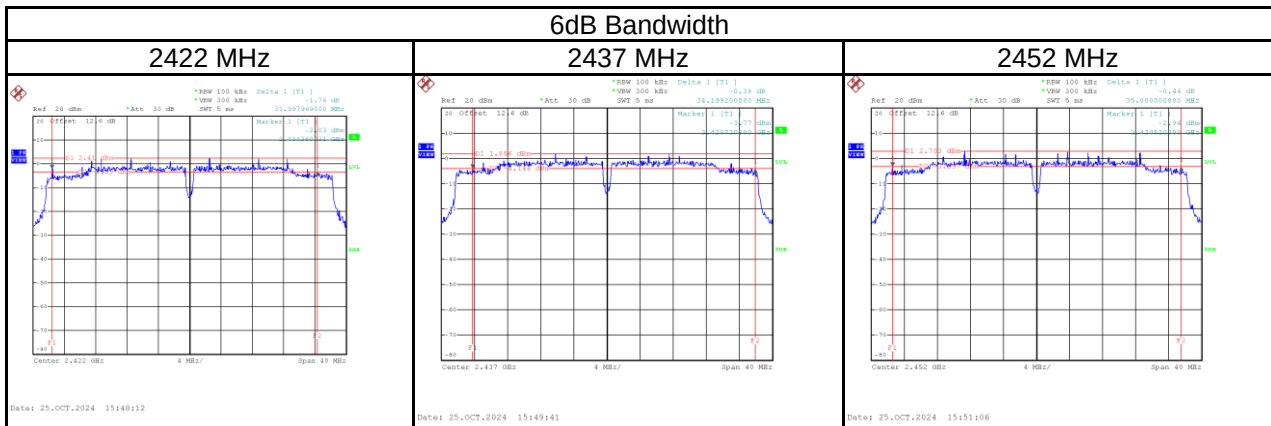
Test Mode	IEEE 802.11n (HT20)_ Main Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	16.35	17.92	≥ 500	Pass
2437	16.36	17.84	≥ 500	Pass
2462	15.07	17.84	≥ 500	Pass



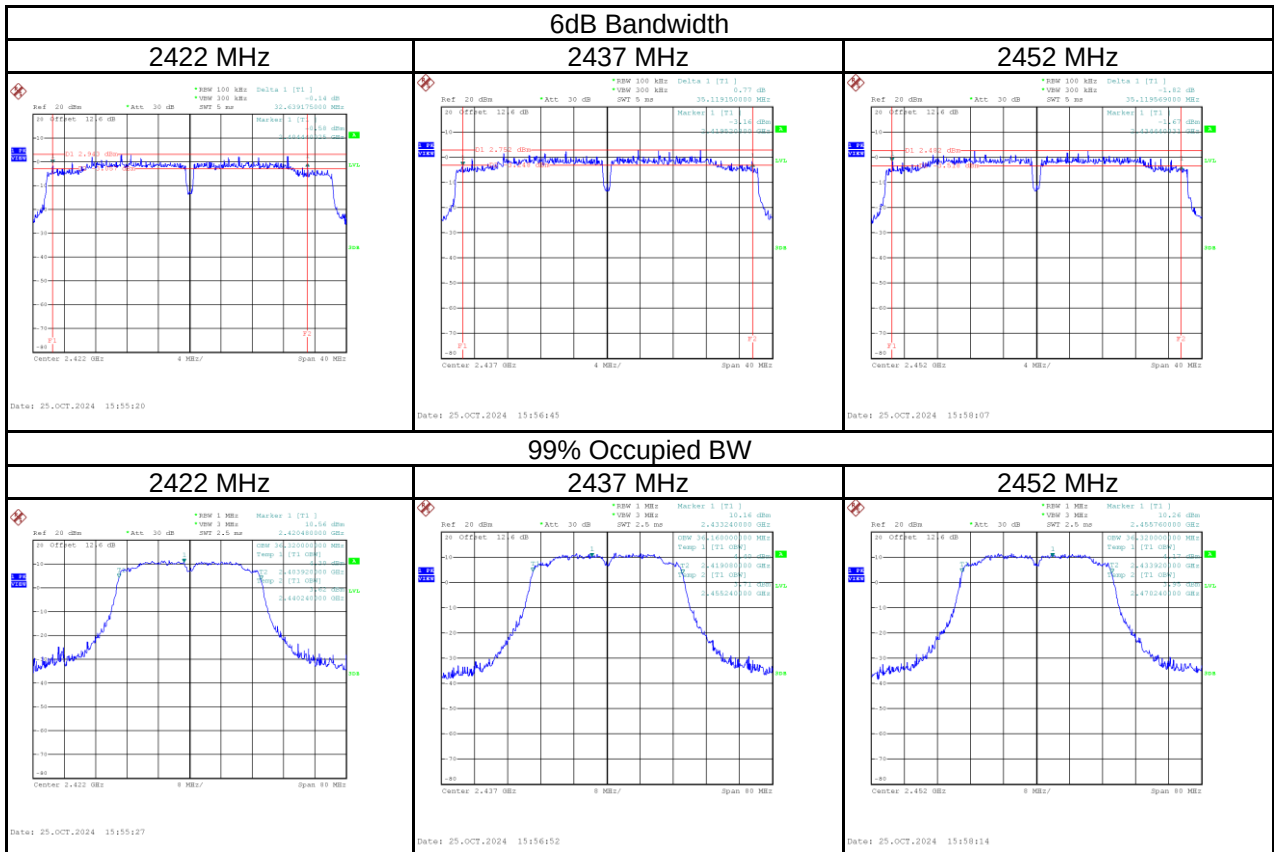
Test Mode	IEEE 802.11n (HT40)_ Aux Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2422	34.00	36.32	≥ 500	Pass
2437	34.20	36.32	≥ 500	Pass
2452	35.00	36.32	≥ 500	Pass



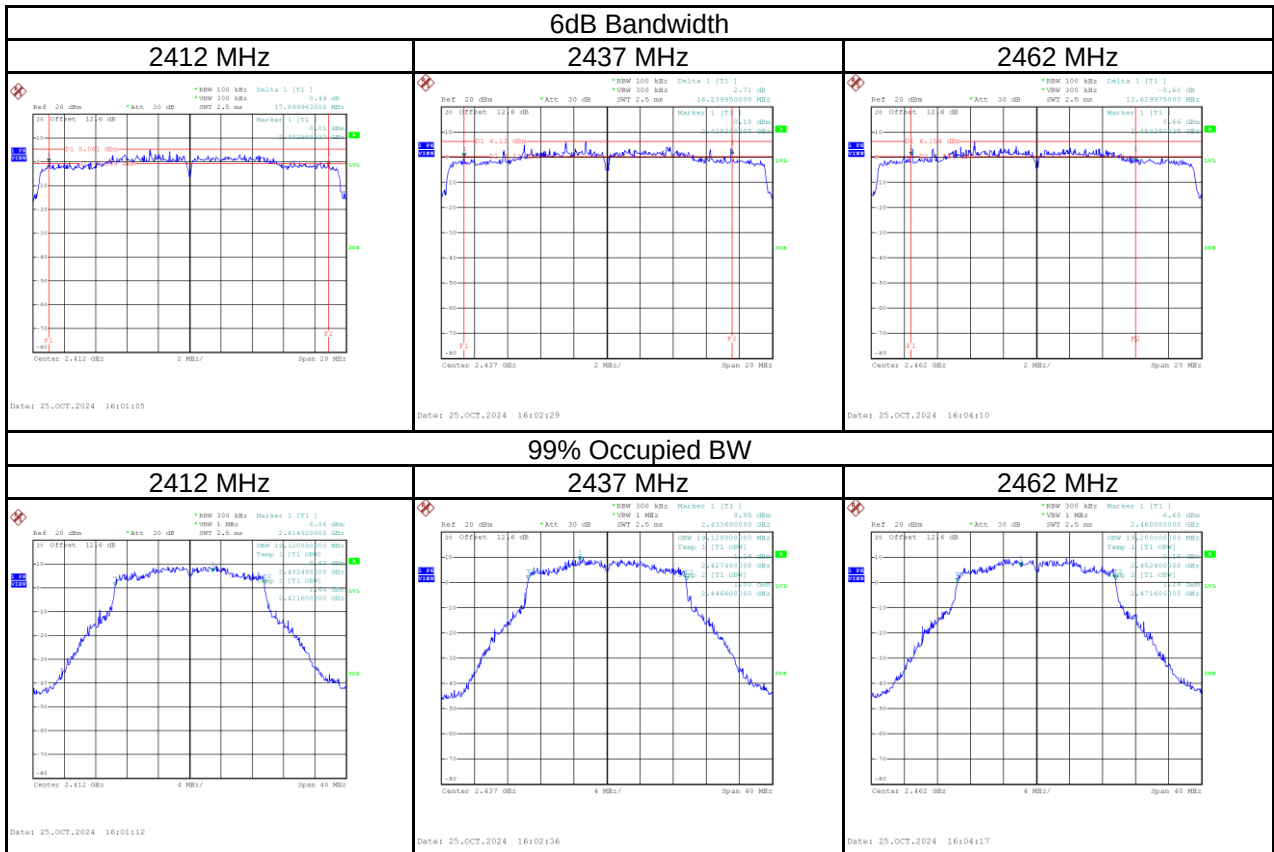
Test Mode	IEEE 802.11n (HT40)_ Main Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2422	32.64	36.32	≥ 500	Pass
2437	35.12	36.16	≥ 500	Pass
2452	35.12	36.32	≥ 500	Pass



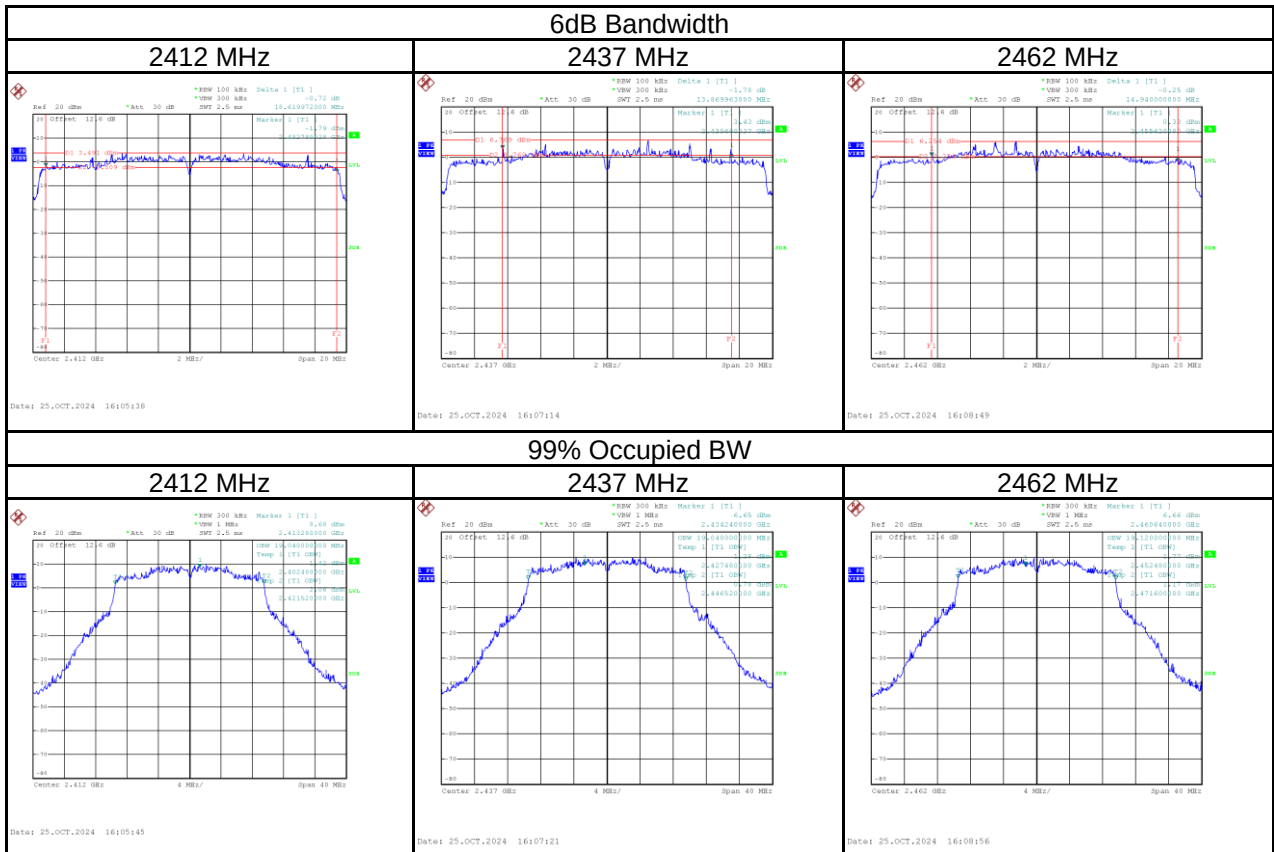
Test Mode	IEEE 802.11ax (HE20)_ Aux Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	17.90	19.12	≥ 500	Pass
2437	16.24	19.12	≥ 500	Pass
2462	13.63	19.20	≥ 500	Pass



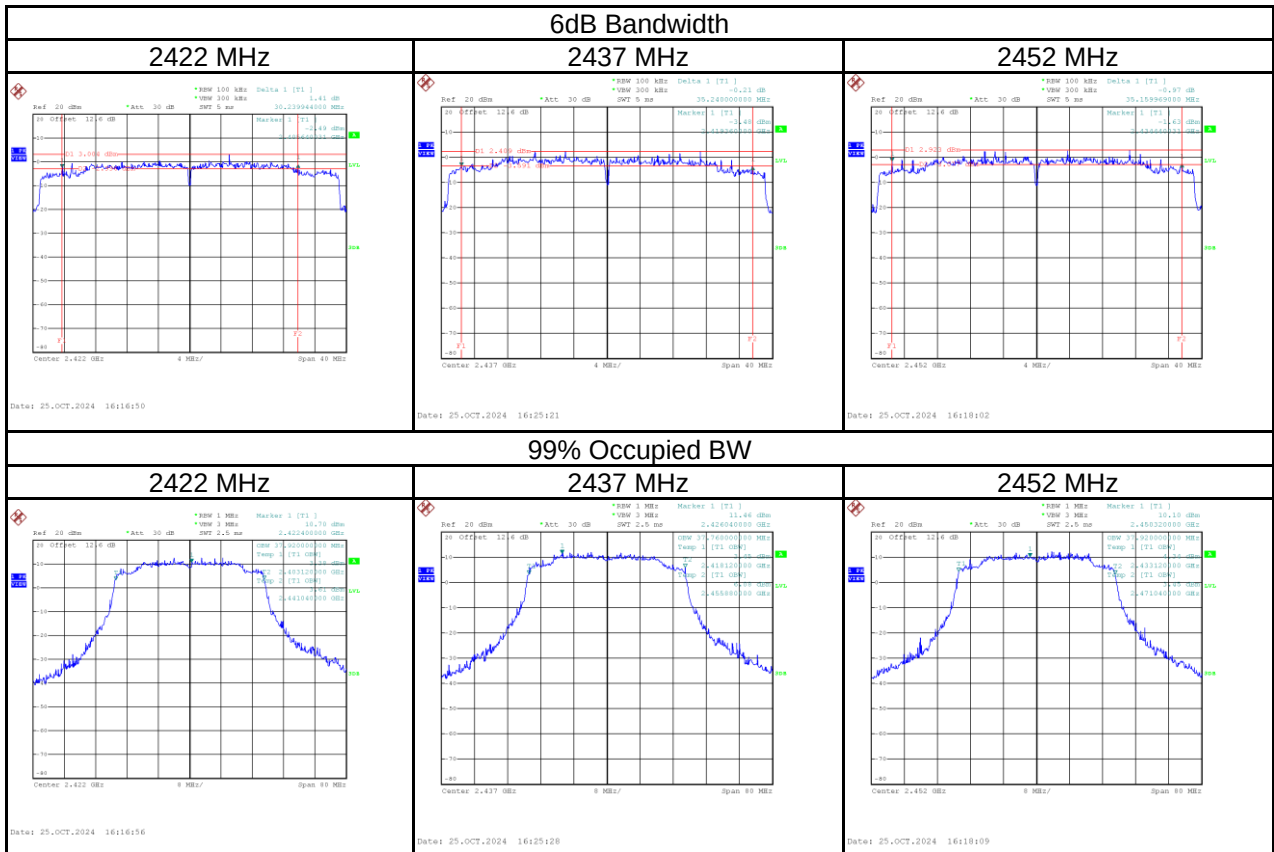
Test Mode	IEEE 802.11ax (HE20)_ Main Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2412	18.62	19.04	≥ 500	Pass
2437	13.87	19.04	≥ 500	Pass
2462	14.94	19.12	≥ 500	Pass



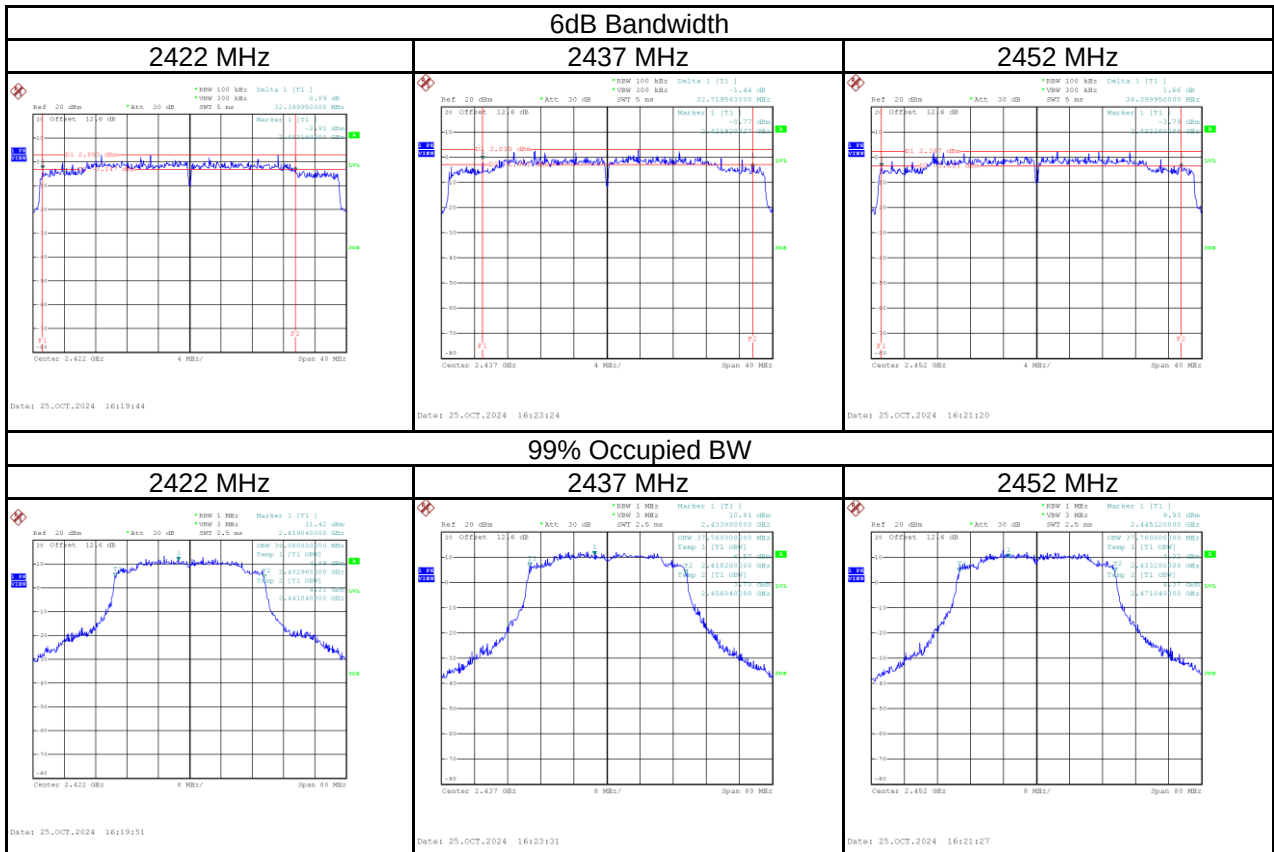
Test Mode	IEEE 802.11ax (HE40)_ Aux Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2422	30.24	37.92	≥ 500	Pass
2437	35.24	37.76	≥ 500	Pass
2452	35.16	37.92	≥ 500	Pass



Test Mode	IEEE 802.11ax (HE40)_ Main Antenna
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Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2422	32.40	38.08	≥ 500	Pass
2437	32.72	37.76	≥ 500	Pass
2452	36.40	37.76	≥ 500	Pass



APPENDIX F OUTPUT POWER

Test Mode	IEEE 802.11b_ Aux Antenna	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	20.50	0.1122	30.00	1.0000	Pass
2437	20.45	0.1109	30.00	1.0000	Pass
2462	20.53	0.1130	30.00	1.0000	Pass

Test Mode	IEEE 802.11b_ Main Antenna	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	20.45	0.1109	30.00	1.0000	Pass
2437	20.48	0.1117	30.00	1.0000	Pass
2462	20.39	0.1094	30.00	1.0000	Pass

Test Mode	IEEE 802.11g_ Aux Antenna	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	21.39	0.1377	30.00	1.0000	Pass
2437	21.18	0.1312	30.00	1.0000	Pass
2462	21.01	0.1262	30.00	1.0000	Pass

Test Mode	IEEE 802.11g_ Main Antenna	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	21.29	0.1346	30.00	1.0000	Pass
2437	21.41	0.1384	30.00	1.0000	Pass
2462	21.44	0.1393	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT20)_ Aux Antenna	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	21.11	0.1291	30.00	1.0000	Pass
2437	20.97	0.1250	30.00	1.0000	Pass
2462	21.13	0.1297	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT20)_ Main Antenna	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	20.93	0.1239	30.00	1.0000	Pass
2437	21.00	0.1259	30.00	1.0000	Pass
2462	21.03	0.1268	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT20)_ Total	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	24.03	0.2530	30.00	1.0000	Pass
2437	24.00	0.2509	30.00	1.0000	Pass
2462	24.09	0.2565	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT40)_ Aux Antenna	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	22.38	0.1730	30.00	1.0000	Pass
2437	22.44	0.1754	30.00	1.0000	Pass
2452	21.65	0.1462	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT40)_ Main Antenna	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	22.61	0.1824	30.00	1.0000	Pass
2437	22.35	0.1718	30.00	1.0000	Pass
2452	21.63	0.1455	30.00	1.0000	Pass

Test Mode	IEEE 802.11n (HT40)_ Total	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	25.51	0.3554	30.00	1.0000	Pass
2437	25.41	0.3472	30.00	1.0000	Pass
2452	24.65	0.2918	30.00	1.0000	Pass

Test Mode	IEEE 802.11ax (HE20)_ Aux Antenna	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	21.38	0.1374	30.00	1.0000	Pass
2437	21.20	0.1318	30.00	1.0000	Pass
2462	21.19	0.1315	30.00	1.0000	Pass

Test Mode	IEEE 802.11ax (HE20)_ Main Antenna	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	21.59	0.1442	30.00	1.0000	Pass
2437	21.50	0.1413	30.00	1.0000	Pass
2462	21.21	0.1321	30.00	1.0000	Pass

Test Mode	IEEE 802.11ax (HE20)_ Total	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2412	24.50	0.2816	30.00	1.0000	Pass
2437	24.36	0.2731	30.00	1.0000	Pass
2462	24.21	0.2637	30.00	1.0000	Pass

Test Mode	IEEE 802.11ax (HE40)_ Aux Antenna	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	22.46	0.1762	30.00	1.0000	Pass
2437	22.71	0.1866	30.00	1.0000	Pass
2452	21.64	0.1459	30.00	1.0000	Pass

Test Mode	IEEE 802.11ax (HE40)_ Main Antenna	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	22.34	0.1714	30.00	1.0000	Pass
2437	22.87	0.1936	30.00	1.0000	Pass
2452	21.46	0.1400	30.00	1.0000	Pass

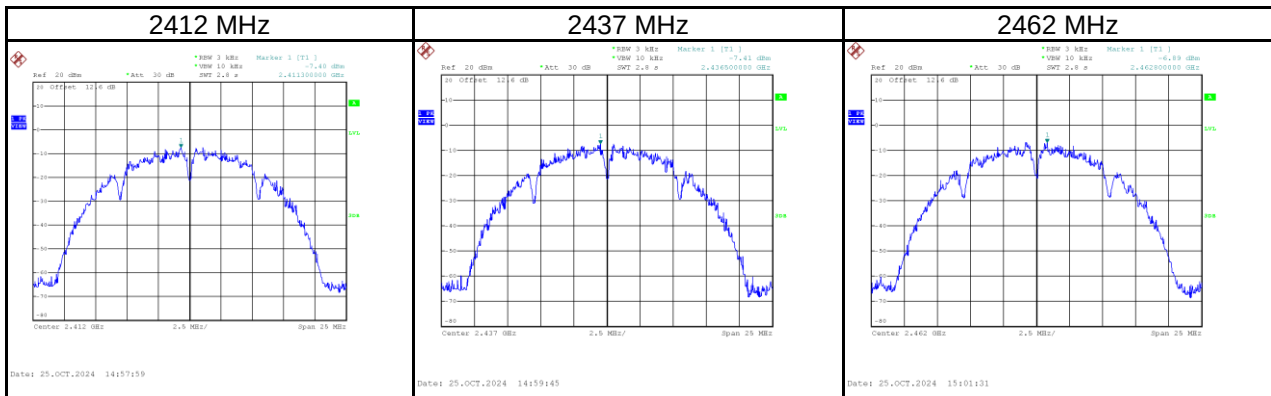
Test Mode	IEEE 802.11ax (HE40)_ Total	Tested Date	2024/10/24
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Limit (dBm)	Limit (W)	Result
2422	25.41	0.3476	30.00	1.0000	Pass
2437	25.80	0.3803	30.00	1.0000	Pass
2452	24.56	0.2858	30.00	1.0000	Pass

APPENDIX G POWER SPECTRAL DENSITY

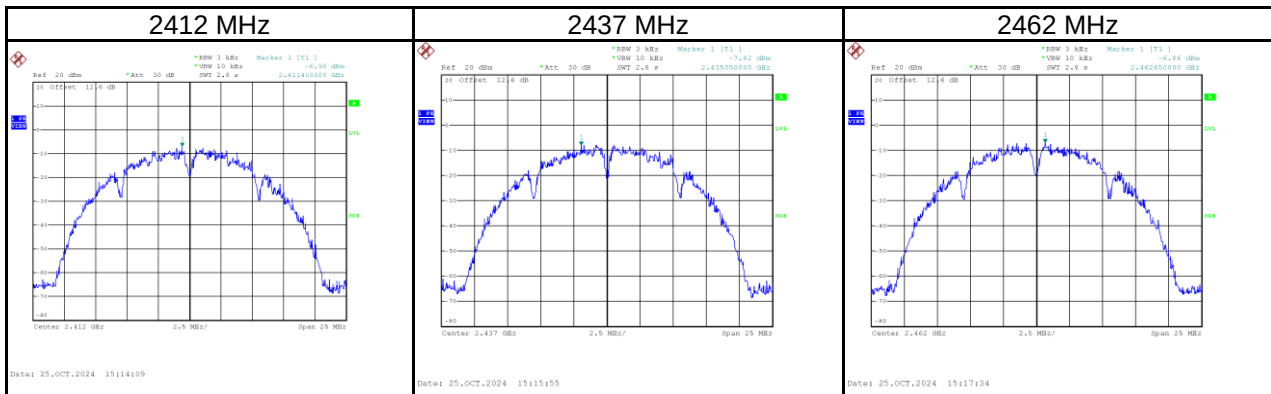
Test Mode	IEEE 802.11b_Aux Antenna
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-7.40	8.00	Pass
2437	-7.41	8.00	Pass
2462	-6.89	8.00	Pass



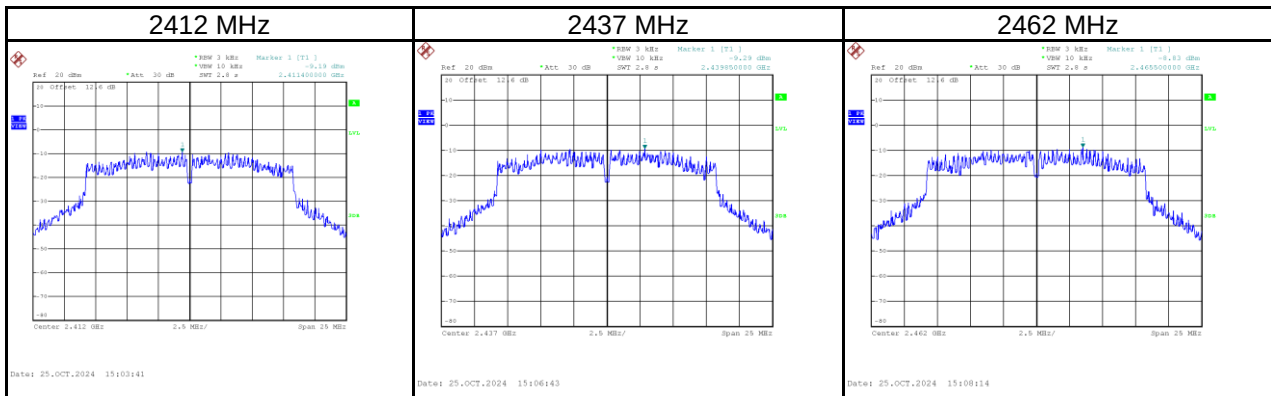
Test Mode	IEEE 802.11b_Main Antenna
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-6.98	8.00	Pass
2437	-7.82	8.00	Pass
2462	-6.86	8.00	Pass



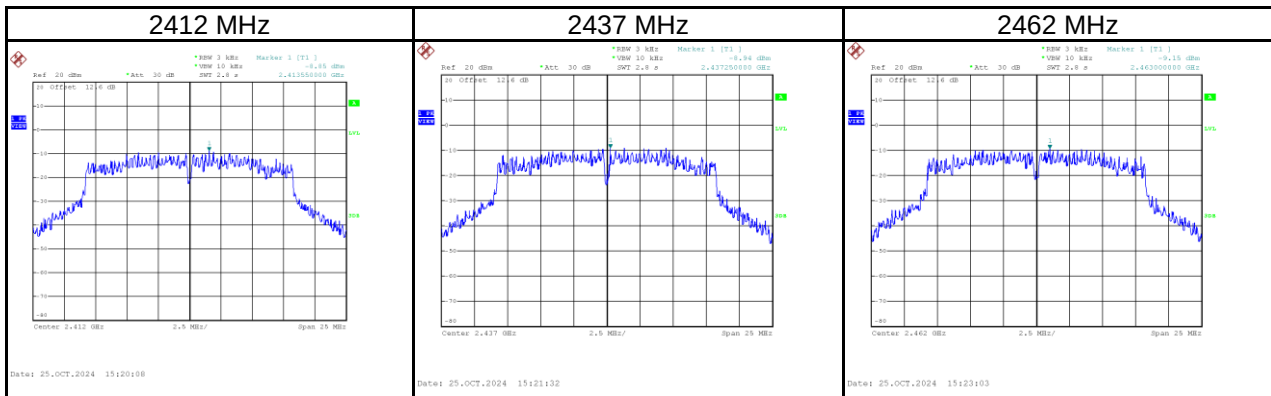
Test Mode	IEEE 802.11g_Aux Antenna
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-9.19	8.00	Pass
2437	-9.29	8.00	Pass
2462	-8.83	8.00	Pass



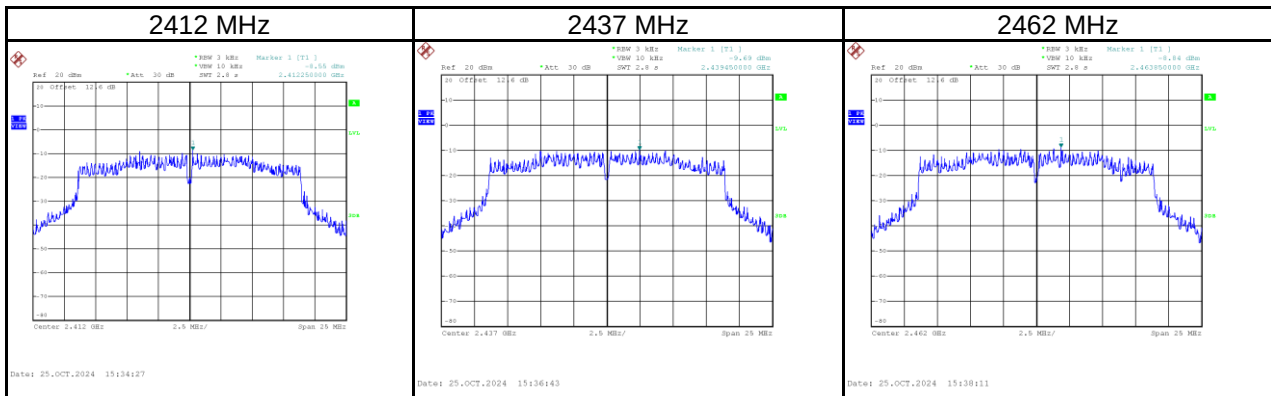
Test Mode	IEEE 802.11g_Main Antenna
-----------	---------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-8.85	8.00	Pass
2437	-8.94	8.00	Pass
2462	-9.15	8.00	Pass



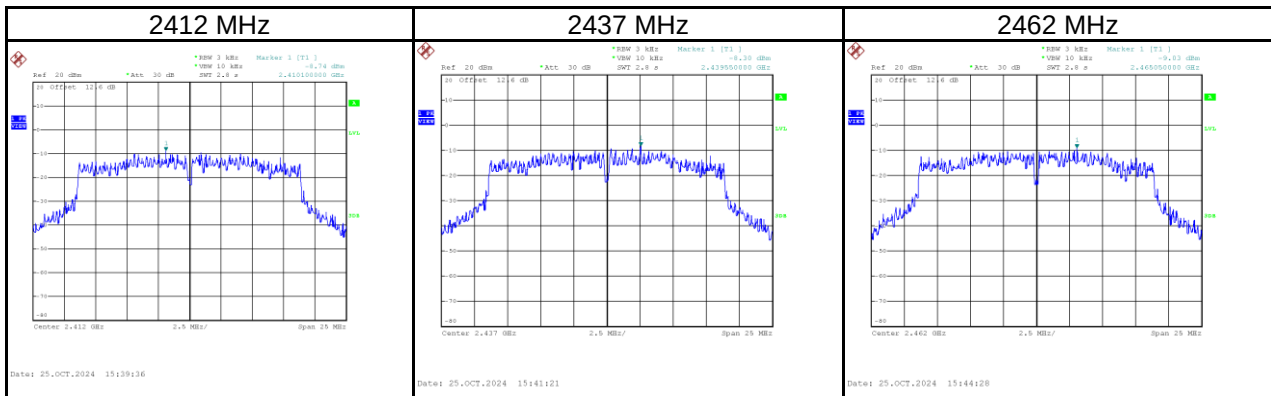
Test Mode	IEEE 802.11n (HT20)_Aux Antenna
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-8.55	8.00	Pass
2437	-9.69	8.00	Pass
2462	-8.84	8.00	Pass



Test Mode	IEEE 802.11n (HT20)_Main Antenna
-----------	----------------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-8.74	8.00	Pass
2437	-8.30	8.00	Pass
2462	-9.03	8.00	Pass

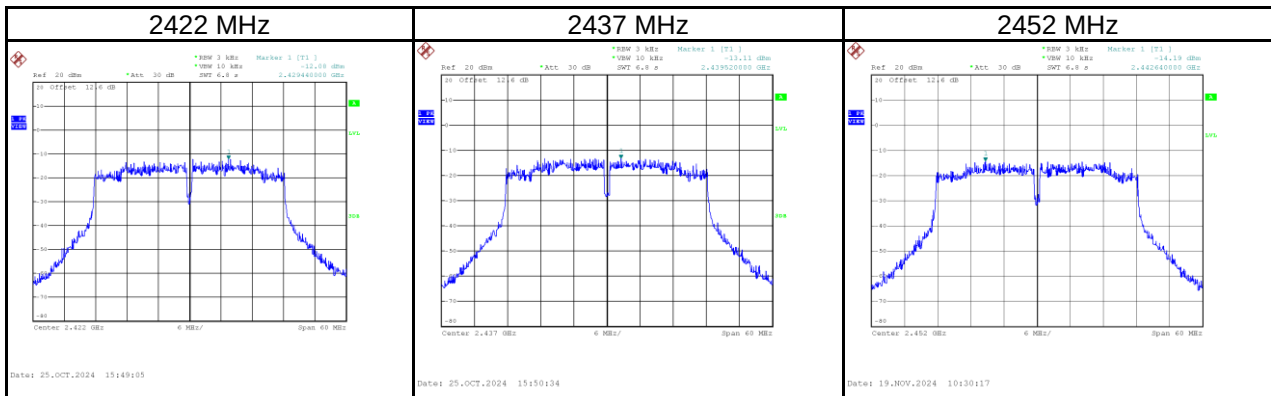


Test Mode	IEEE 802.11n (HT20)_Total
-----------	---------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-5.63	8.00	Pass
2437	-5.93	8.00	Pass
2462	-5.92	8.00	Pass

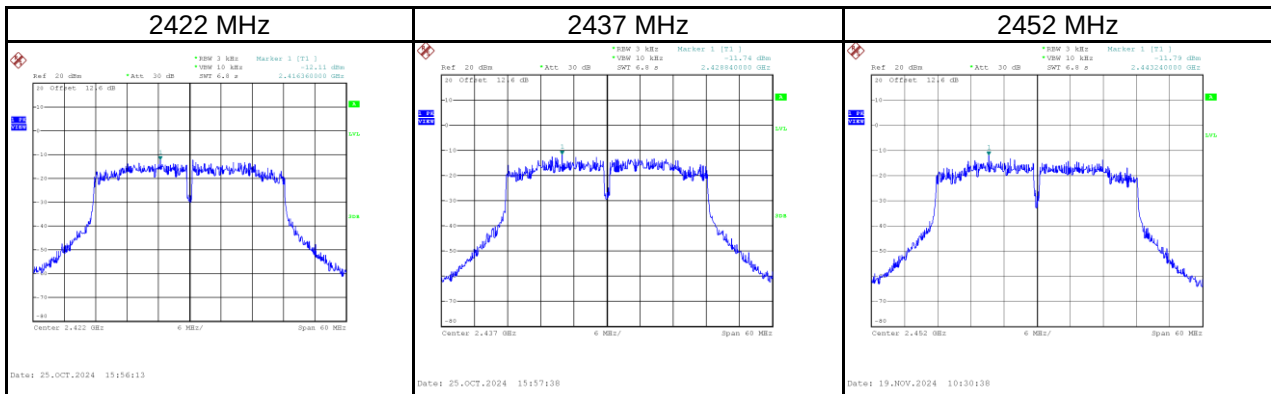
Test Mode	IEEE 802.11n (HT40)_Aux Antenna
-----------	---------------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2422	-12.08	8.00	Pass
2437	-13.11	8.00	Pass
2452	-14.19	8.00	Pass



Test Mode	IEEE 802.11n (HT40)_Main Antenna
-----------	----------------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2422	-12.11	8.00	Pass
2437	-11.74	8.00	Pass
2452	-11.79	8.00	Pass

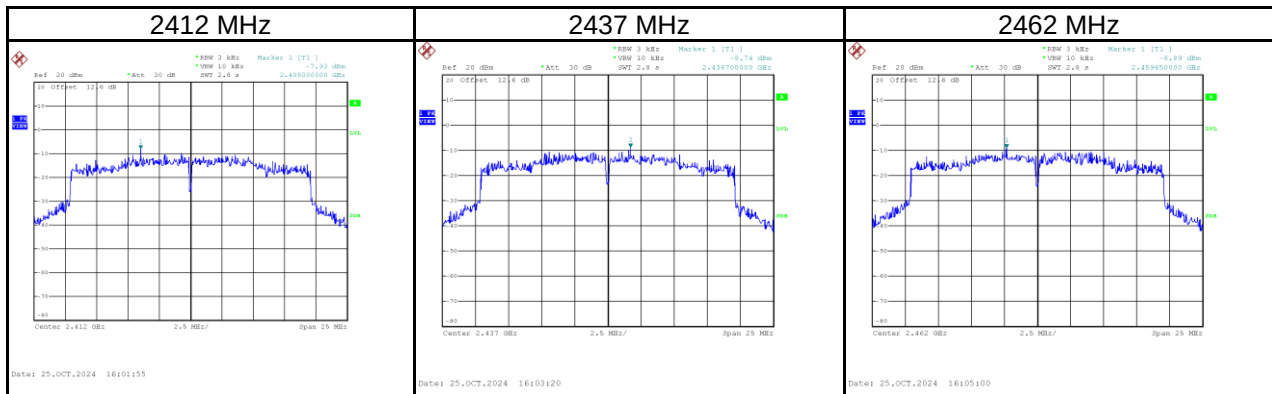


Test Mode	IEEE 802.11n (HT40)_Total
-----------	---------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2422	-9.08	8.00	Pass
2437	-9.36	8.00	Pass
2452	-9.82	8.00	Pass

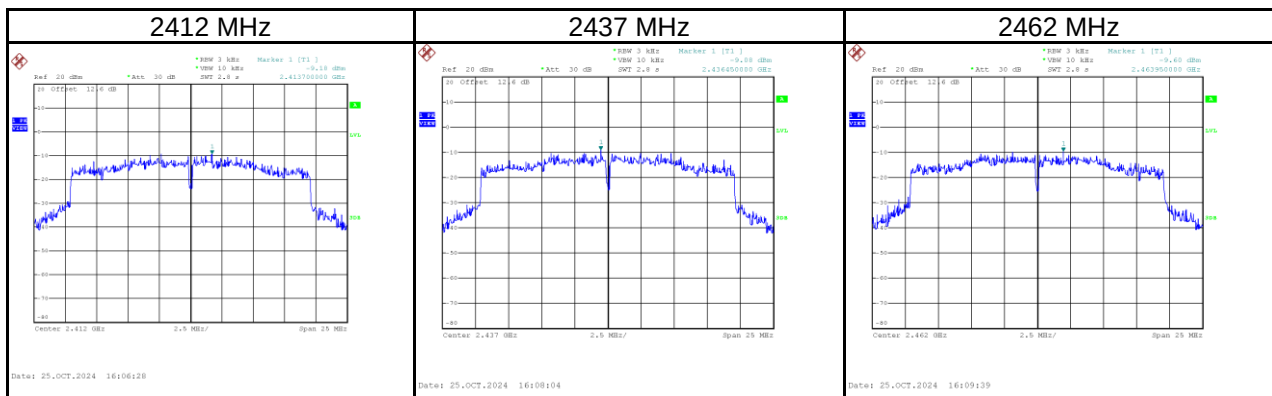
Test Mode	IEEE 802.11ax (HE20)_Aux Antenna
-----------	----------------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-7.93	8.00	Pass
2437	-8.74	8.00	Pass
2462	-8.89	8.00	Pass



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

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-9.18	8.00	Pass
2437	-9.08	8.00	Pass
2462	-9.60	8.00	Pass

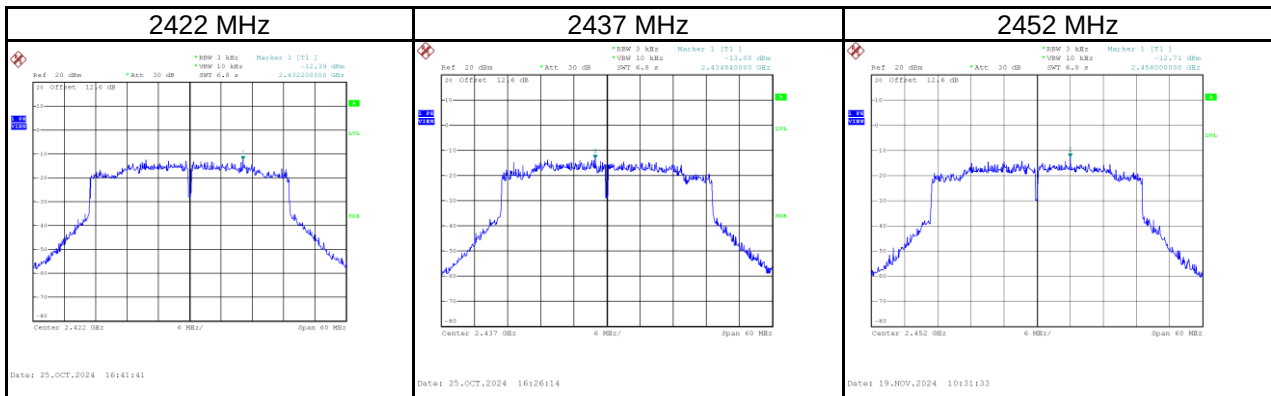


Test Mode	IEEE 802.11ax (HE20)_Total
-----------	----------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2412	-5.50	8.00	Pass
2437	-5.90	8.00	Pass
2462	-6.22	8.00	Pass

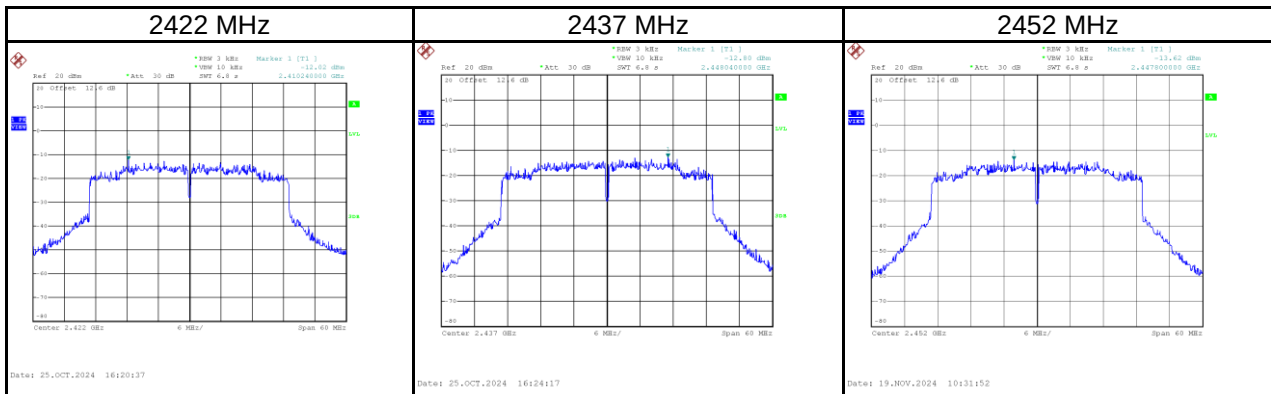
Test Mode	IEEE 802.11ax (HE40)_Aux Antenna
-----------	----------------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2422	-12.39	8.00	Pass
2437	-13.08	8.00	Pass
2452	-12.71	8.00	Pass



Test Mode	IEEE 802.11ax (HE40)_Main Antenna
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Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2422	-12.02	8.00	Pass
2437	-12.80	8.00	Pass
2452	-13.62	8.00	Pass



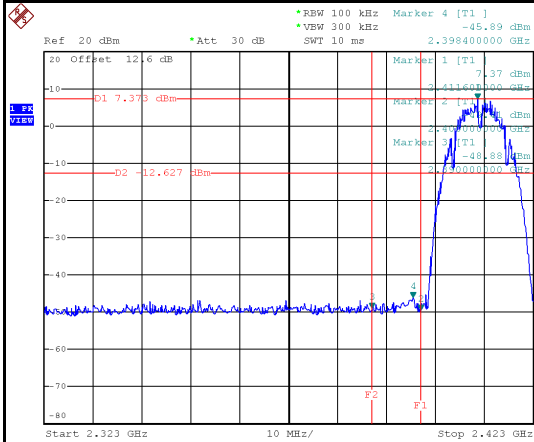
Test Mode	IEEE 802.11ax (HE40)_Total
-----------	----------------------------

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2422	-9.19	8.00	Pass
2437	-9.93	8.00	Pass
2452	-10.13	8.00	Pass

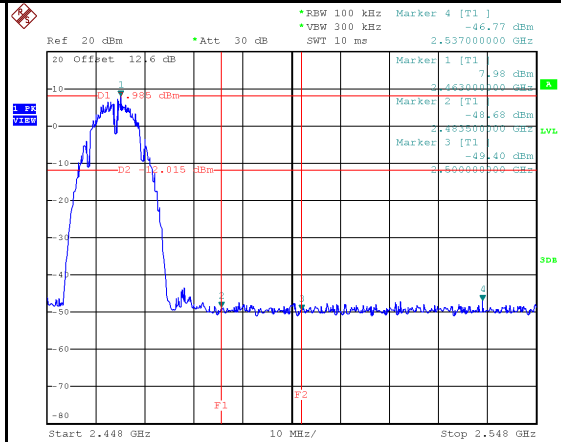
APPENDIX H ANTENNA CONDUCTED SPURIOUS EMISSIONS

Test Mode IEEE 802.11b_Aux Antenna

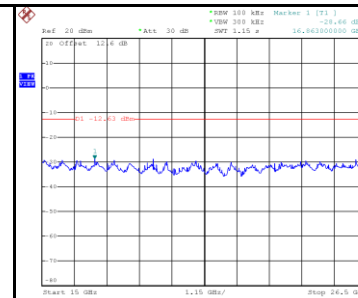
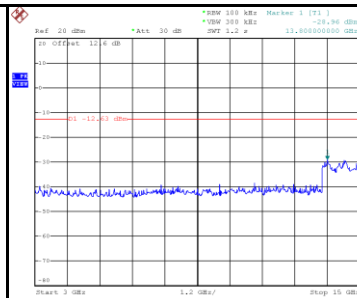
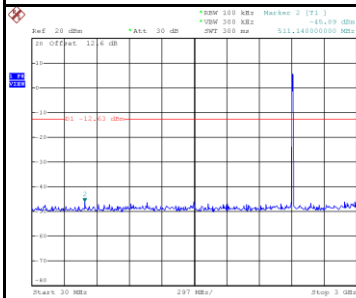
Low Bandedge-2412 MHz



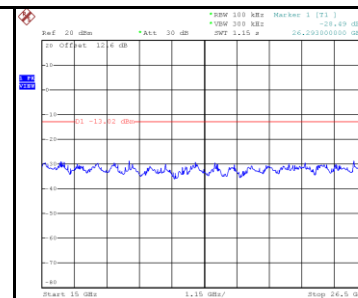
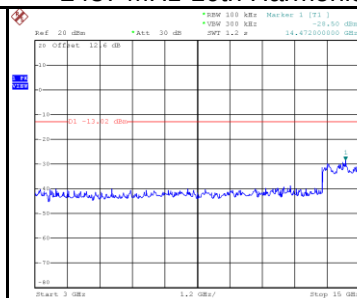
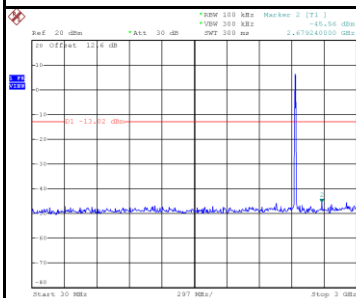
High Bandedge-2462 MHz



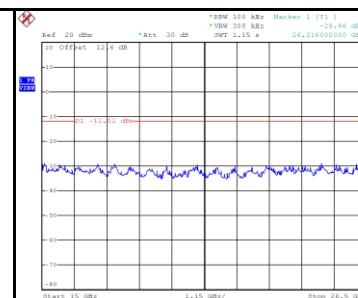
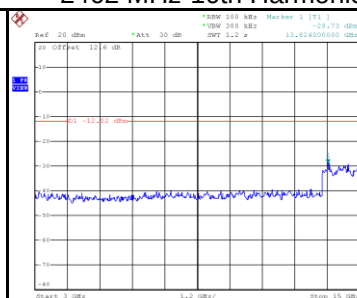
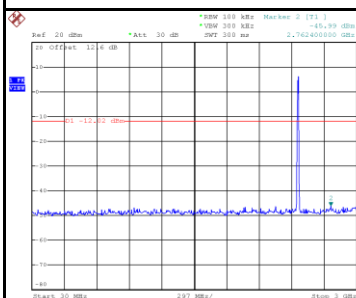
2412 MHz-10th Harmonics



2437 MHz-10th Harmonics

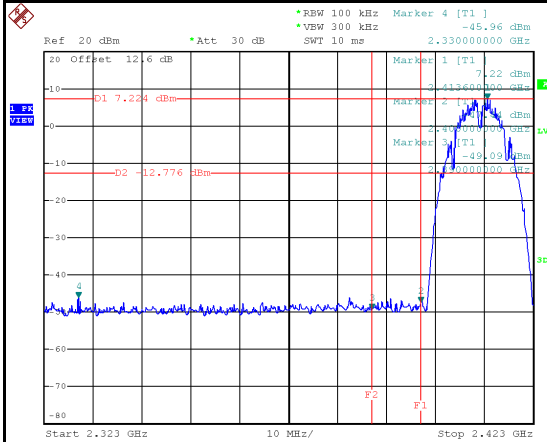


2462 MHz-10th Harmonics

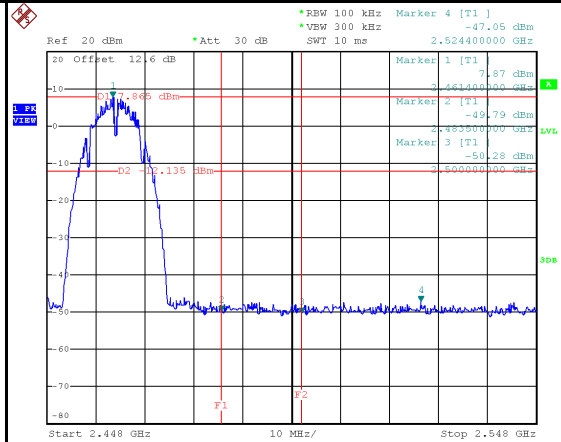


Test Mode IEEE 802.11b_Main Antenna

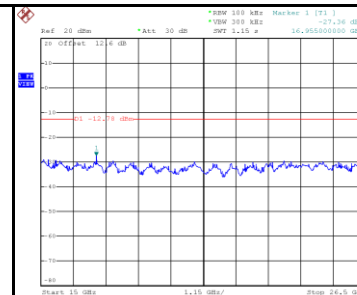
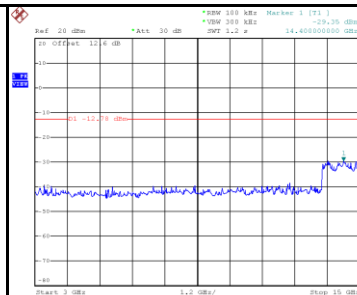
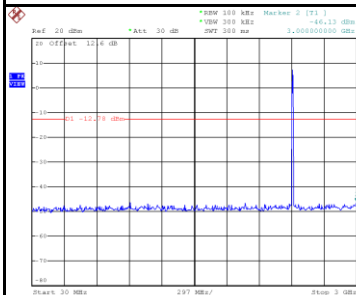
Low Bandedge-2412 MHz



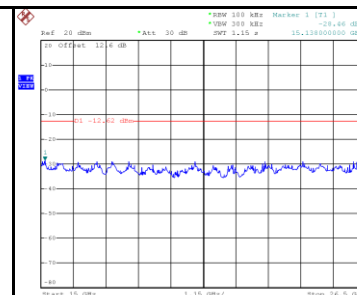
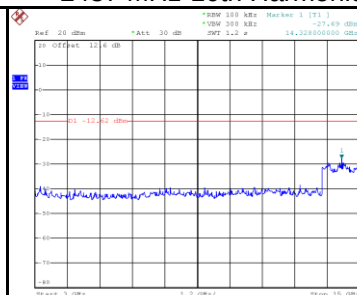
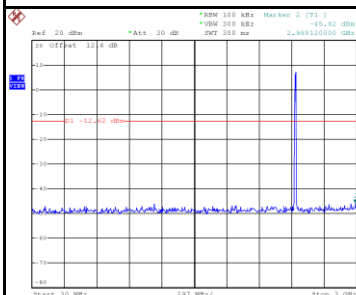
High Bandedge-2462 MHz



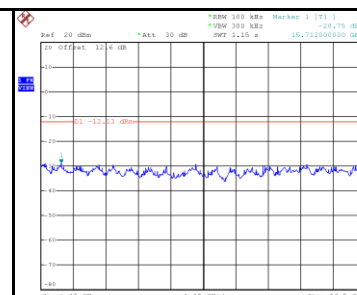
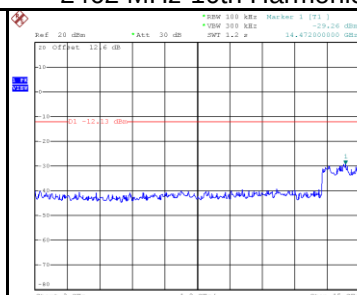
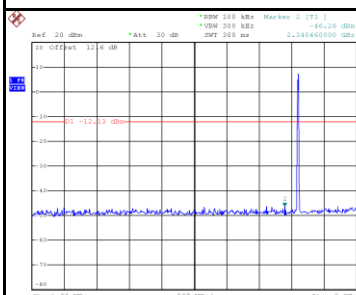
2412 MHz-10th Harmonics



2437 MHz-10th Harmonics

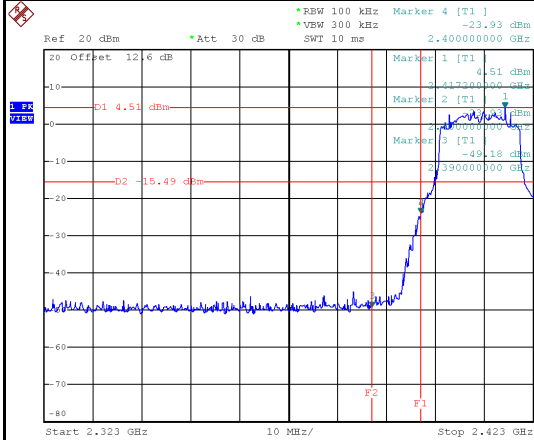


2462 MHz-10th Harmonics

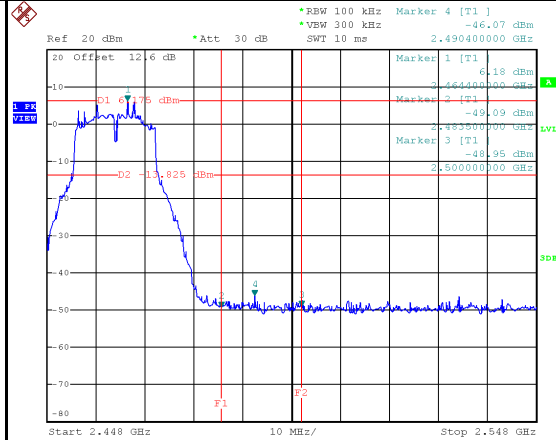


Test Mode IEEE 802.11g_Aux Antenna

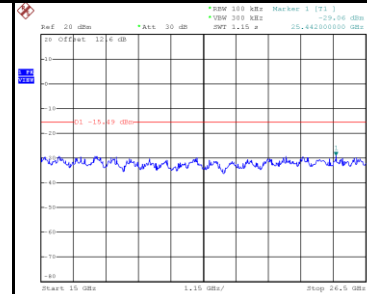
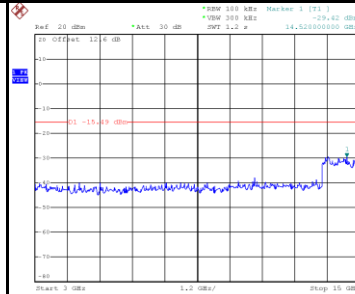
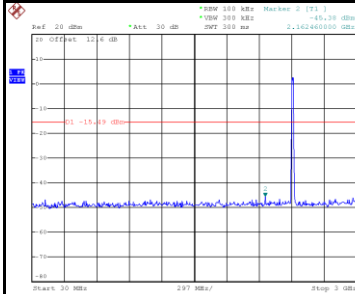
Low Bandedge-2412 MHz



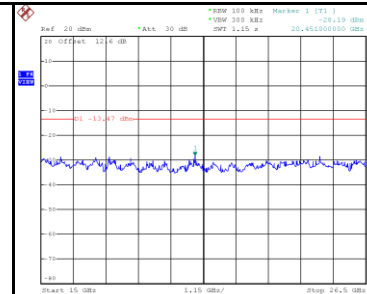
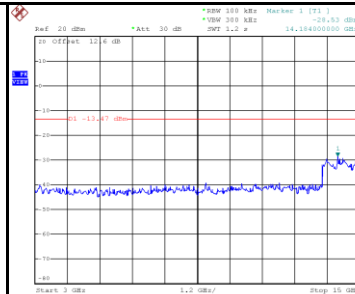
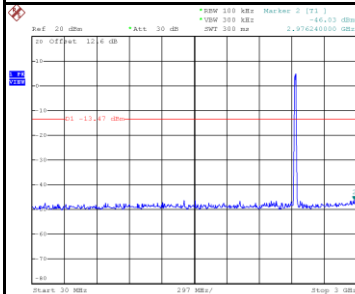
High Bandedge-2462 MHz



2412 MHz-10th Harmonics



2437 MHz-10th Harmonics



2462 MHz-10th Harmonics

