

FCC Radio Test Report

FCC ID: ZZ2-AMC503

Report No. : BTL-FCCP-1-2412C115
Equipment : Dual-Lens 4K (8MP) Outdoor Security WiFi Camera
Model Name : IP8M-DLB2998W-AI, IP8M-DLB2998W, AMC503
Brand Name : N/A
Applicant : Amcrest Technologies LLC
Address : 16727 Park Row Dr, Houston, Texas 77084, United States of America
Manufacturer : Amcrest Industries LLC.
Address : 16727 Park Row Dr, Houston, Texas 77084, United States of America

Radio Function : WLAN 2.4GHz

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

Date of Receipt : 2025/3/19
Date of Test : 2025/4/18 ~ 2025/5/12
Issued Date : 2025/7/16

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** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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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-1-2412C115	R00	Original Report.	2025/7/16	Valid

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C					
Standard(s) Section	Test Item	Test Result	Judgment	Remark	
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----	
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C	PASS	-----	
15.247(a)(2)	Bandwidth	APPENDIX D	PASS	-----	
15.247(b)(3)	Maximum Output Power	APPENDIX E	PASS	-----	
15.247(d)	Conducted Spurious Emissions	APPENDIX F	PASS	-----	
15.247(e)	Power Spectral Density	APPENDIX G	PASS	-----	
15.203	Antenna Requirement	-----	PASS	Note(2)	

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

1.1 TEST FACILITY

The test facilities used to collect the test data in this report:

No.64, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

The test sites and facilities are covered under FCC RN: 674415 and DN: TW0659.

C01 CB20

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

SR06

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95.45% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. AC Power Line Conducted Emissions Measurement:

Test Site	Method	Measurement Frequency Range	U (dB)
C01	CISPR	150 kHz ~ 30MHz	3.44

B. Radiated emissions Measurement:

Test Site	Measurement Frequency Range (GHz)	U (dB)	U _{CISPR} (dB)
CB20 (3m)	0.03~0.2	4.01	6
	0.02~1	4.64	6
	1 ~ 6	5.91	6
	6 ~ 18	6.24	6
	18 ~ 26	3.93	6
	26 ~ 40	4.06	6

C. Other Measurement:

Test Item	U
Occupied Bandwidth	86 %
Output power	0.8412 dB
Power Spectral Density	0.8602 dB
Conducted Spurious emissions	1.8304 dB
Conducted Band edges	1.8338 dB

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	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	45%	AC 120V/60Hz	Ken Lu
Radiated Emissions-30MHz to 1000MHz	25°C	65%	AC 120V/60Hz	Ken Lu
Radiated Emissions-Above 1000MHz	25°C	65%	AC 120V/60Hz	Ken Lu
Bandwidth	25°C	50%	AC 120V/60Hz	Cheng Tsai
Maximum Output Power	25°C	60%	AC 120V/60Hz	Mason Mo
Conducted Spurious Emissions	25°C	50%	AC 120V/60Hz	Cheng Tsai
Power Spectral Density	25°C	50%	AC 120V/60Hz	Cheng Tsai

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Dual-Lens 4K (8MP) Outdoor Security WiFi Camera
Brand Name	N/A
Model Name	IP8M-DLB2998W-AI, IP8M-DLB2998W, AMC503
Test Model	IP8M-DLB2998W-AI
Model Difference(s)	Only differ in model name, image pixel and color.
Software Version	V1.00.AC00000.R
Hardware Version	52_870 V1.00
Power Source	DC voltage supplied from AC Adapter. Model: S018BYU1200150
Power Rating	O/P: 100-240V~ 50/60Hz 600mA I/P: 5V/9V/12V---3A/2A/1.5A
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
Bit Rate of Transmitter	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
Maximum Output Power	IEEE 802.11b: 18.92 dBm (0.0780 W)

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20) CH03 - CH09 for IEEE 802.11n(HT40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1		F066A3913980004	PCB	N/A	-2.44
2		F066A3913980005	PCB	N/A	-1.0

Note:

This EUT supports CDD, and all antenna gains are not equal, Directional gain = $G_{ANT} + \text{Array Gain}$.

For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the Directional gain=-1.0.

For power spectral density measurements, $N_{ANT}=2$, $N_{SS} = 1$.

So the Directional gain= $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/ N_{SS})\text{dBi} = -1.0 + 10\log(2/1)\text{dBi} = 2.01$.

4. 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. Table for Antenna Configuration:

Operating Mode / TX Mode	2TX
IEEE 802.11b	V(Ant. 1 + Ant. 2)
IEEE 802.11g	V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT20)	V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)	V(Ant. 1 + Ant. 2)

2.2 DESCRIPTION OF TEST MODES

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

NOTE:

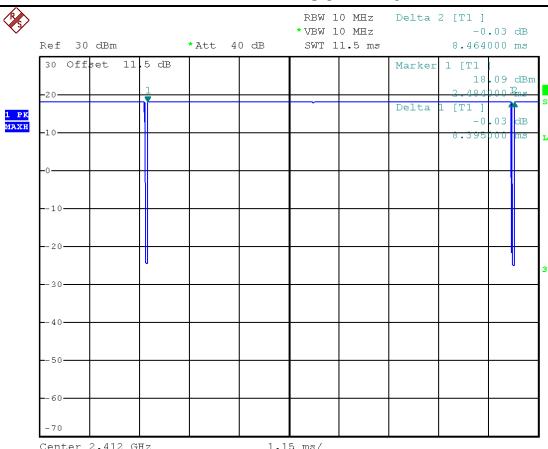
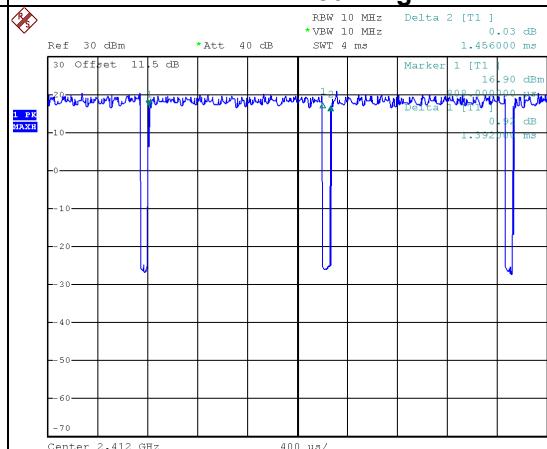
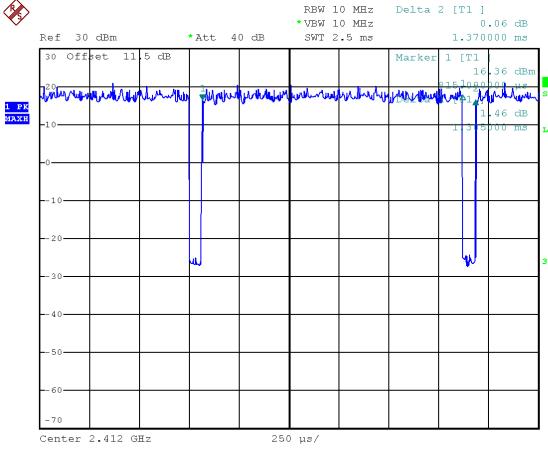
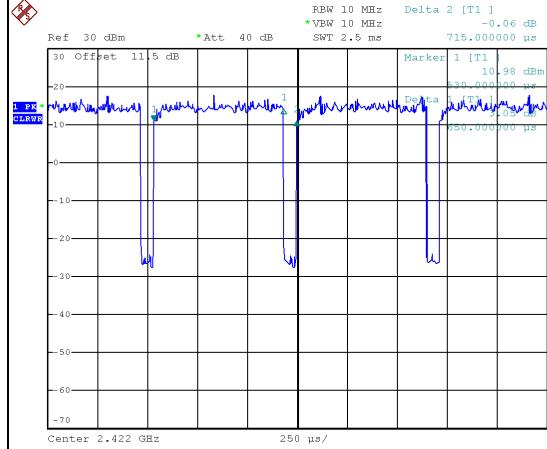
- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For radiated emission below 1 GHz test, the TX IEEE 802.11b Mode Channel 06 is found to be the worst case and recorded.
- (3) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.
- (4) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Vertical) is recorded.

2.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	IPOP V4.0		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	14	14	14
IEEE 802.11g	14	14	14
IEEE 802.11n(HT20)	14.5	14.5	14.5
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	11	14.5	11

2.4 DUTY CYCLE

If duty cycle is $\geq 98\%$, duty factor is not required.
 If duty cycle is $< 98\%$, duty factor shall be considered.
 The output power = measured power + duty factor.

IEEE 802.11b		IEEE 802.11g	
 <p>Ref 30 dBm *Att 40 dB *Vbw 10 MHz SWT 11.5 ms</p> <p>Marker 1 [T1] 11.5 dB</p> <p>Marker 2 [T1] -0.03 dB</p> <p>0.464000 ms</p> <p>Center 2.412 GHz 1.15 ms/</p>		 <p>Ref 30 dBm *Att 40 dB *Vbw 10 MHz SWT 4 ms</p> <p>Marker 1 [T1] 11.5 dB</p> <p>Marker 2 [T1] 0.03 dB</p> <p>1.456000 ms</p> <p>Center 2.412 GHz 400 μs/</p>	
Date: 7.MAY.2025 14:07:32		Date: 7.MAY.2025 14:46:01	
Duty cycle = 8.395 ms / 8.464 ms = 99.18%		Duty cycle = 1.392 ms / 1.456 ms = 95.60%	
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$		Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.20$	
IEEE 802.11n(HT20)		IEEE 802.11n(HT40)	
 <p>Ref 30 dBm *Att 40 dB *Vbw 10 MHz SWT 2.5 ms</p> <p>Marker 1 [T1] 11.5 dB</p> <p>Marker 2 [T1] 0.06 dB</p> <p>1.378000 ms</p> <p>Center 2.412 GHz 250 μs/</p>		 <p>Ref 30 dBm *Att 40 dB *Vbw 10 MHz SWT 2.5 ms</p> <p>Marker 1 [T1] 11.5 dB</p> <p>Marker 2 [T1] -0.06 dB</p> <p>715.000000 ms</p> <p>Center 2.422 GHz 250 μs/</p>	
Date: 7.MAY.2025 14:34:08		Date: 7.MAY.2025 14:47:49	
Duty cycle = 1.305 ms / 1.370 ms = 95.26%		Duty cycle = 0.650 ms / 0.715 ms = 90.91%	
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.21$		Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.41$	

N NOTE:

For IEEE 802.11b:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz.

For IEEE 802.11g:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 718 Hz.

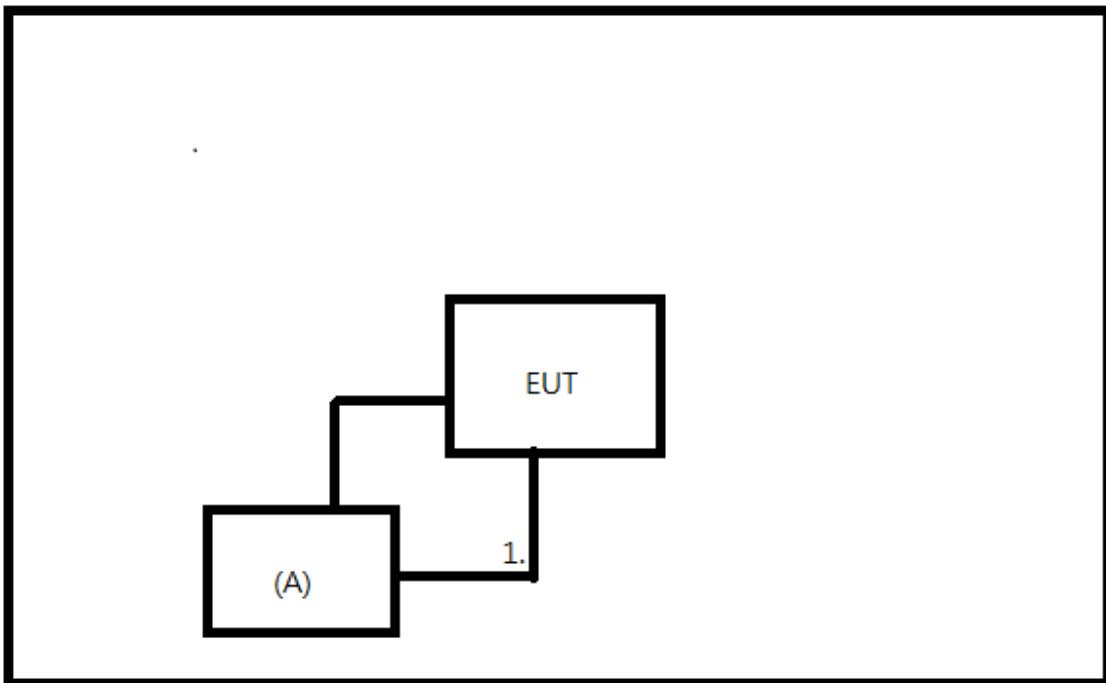
For IEEE 802.11n(HT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 766 Hz.

For IEEE 802.11n(HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1538 Hz.

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Notebook	Lenovo	ThinkBook 14 G4 IAP	MP28KHAH	Furnished by test lab

Item	Cable Type	Shielded	Ferrite Core	Length	Remarks
1	Fixture Cable	NO	NO	3m	Furnished by test requestor

3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

Frequency of Emission (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 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 (dB μ V)		Correct Factor (dB)		Measurement Value (dB μ V)
38.22	+	3.45	=	41.67

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

3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling 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 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

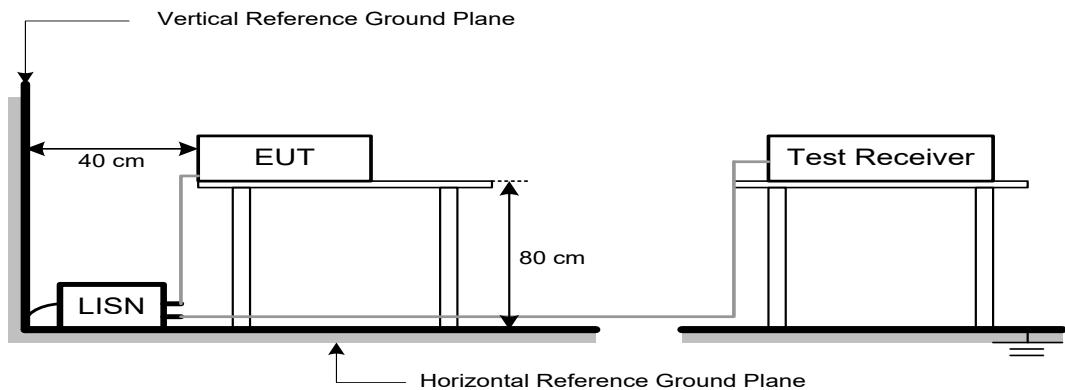
The following table is the setting of the receiver:

Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

4. RADIATED EMISSIONS

4.1 LIMIT

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

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-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
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Band edge/ Harmonic at 3m (dB μ V/m)		Harmonic at 1m (dB μ V/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	83.5 (Note 5)	63.5 (Note 5)

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 (dB μ V/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 (dB μ V)		Correct Factor (dB/m)		Measurement Value (dB μ V/m)
19.11	+	2.11	=	21.22

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

(5)

$$FS_{\text{limit}} = FS_{\text{max}} - 20\log\left(\frac{d_{\text{limit}}}{d_{\text{measure}}}\right)$$

20log (d_{limit}/d_{measure})=20log (3/1)=9.5 dB.

FS_{limit}: Harmonic at 3m Peak and Average limit.

FS_{max}: Harmonic at 1m Peak and Average Maximum value.

d_{limit}: Harmonic at 3m test distance.

d_{measure}: Harmonic Actual test distance.

4.2 TEST PROCEDURE

- a. 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 1 GHz)
- b. The measuring distance of 3 m or 1 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 1 GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; 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.
- d. 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).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. 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.
- g. 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 1 GHz)
- h. 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 1 GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

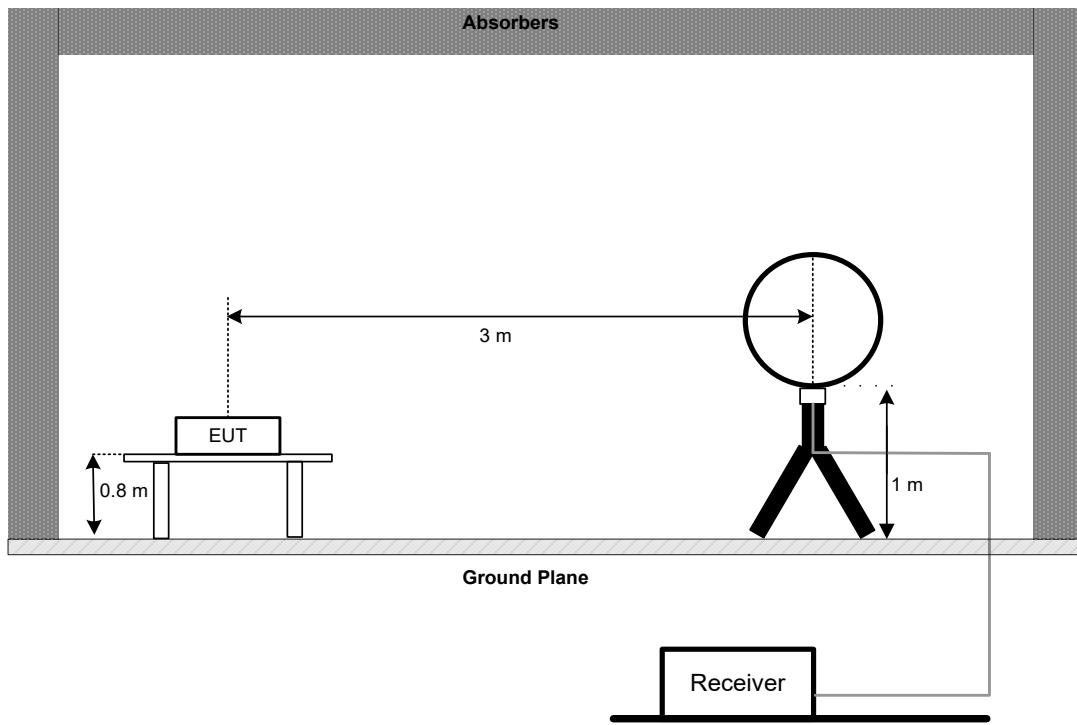
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector

4.3 DEVIATION FROM TEST STANDARD

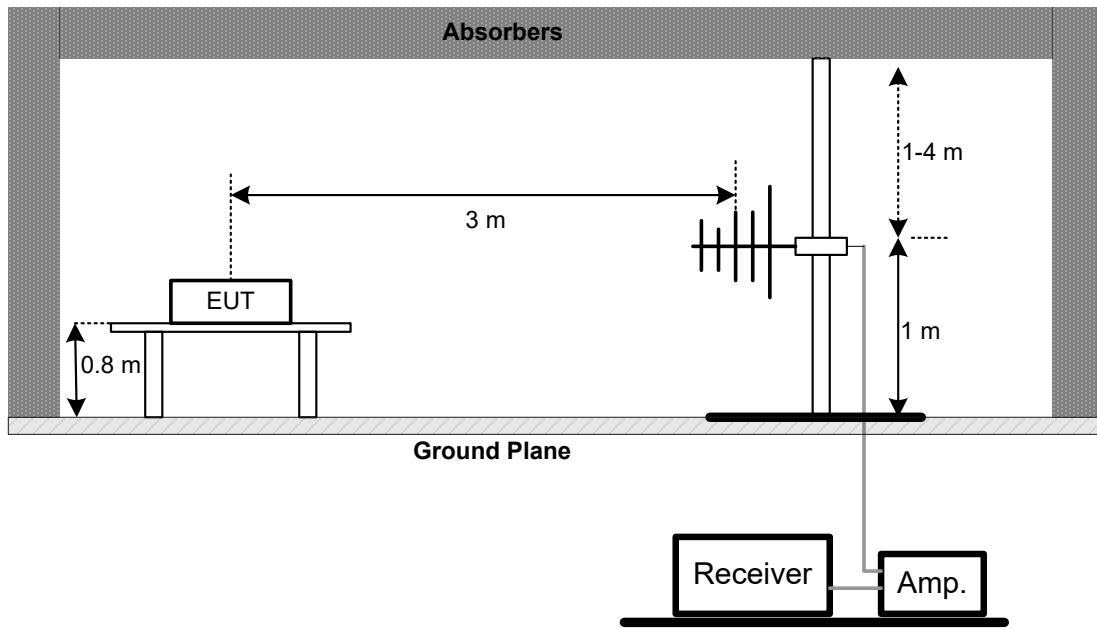
No deviation.

4.4 TEST SETUP

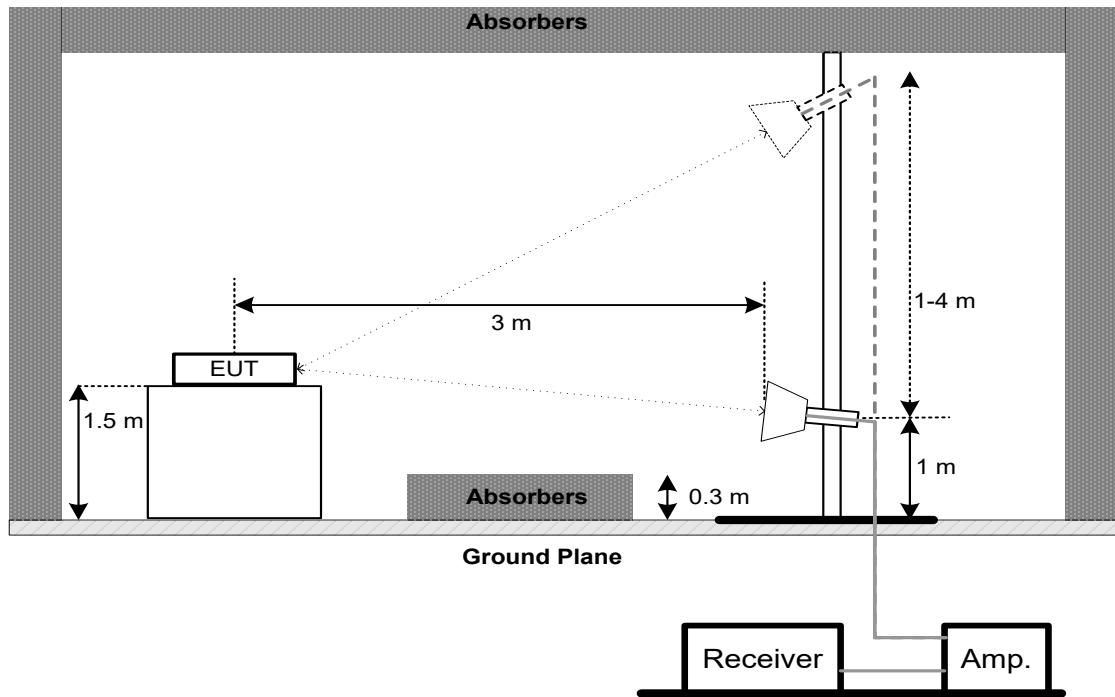
9 kHz to 30 MHz



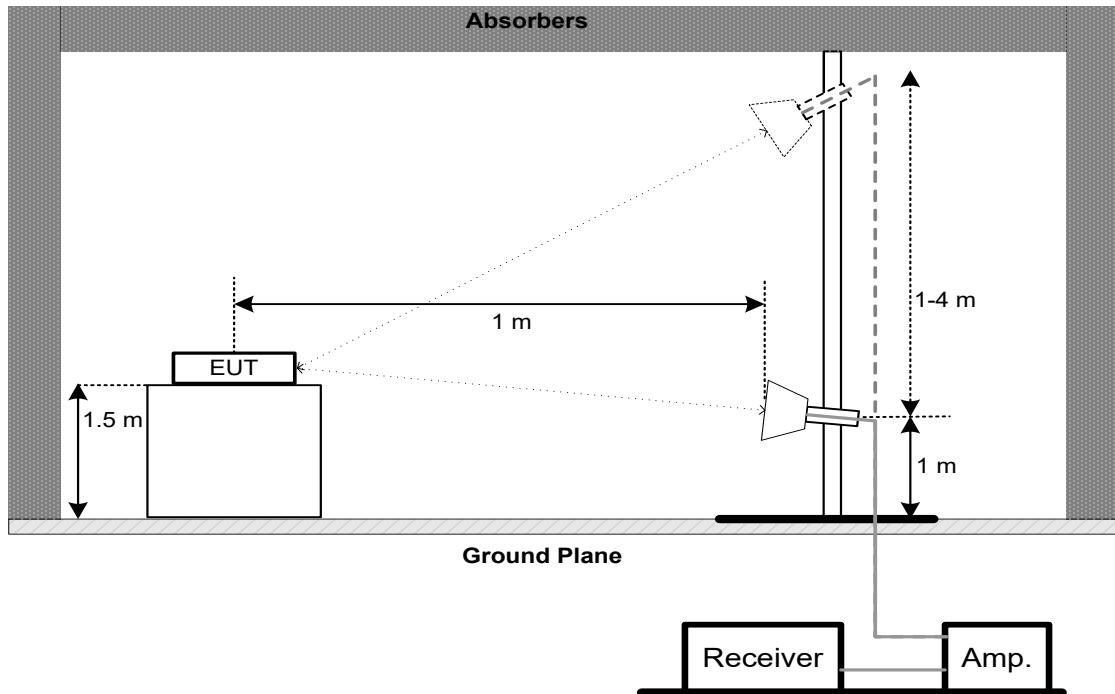
30 MHz to 1 GHz



Above 1 GHz
Band edge & Harmonic(1 GHz to 18 GHz)



Harmonic(18 GHz to 26.5 GHz)



4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

There were no emissions found below 30 MHz within 20 dB of the limit.

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX B.

4.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX C.

Remark:

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

5. BANDWIDTH

5.1 LIMIT

Section	Test Item	Limit
FCC 15.247(a)(2)	6 dB Bandwidth	Minimum 500 kHz
	99% Emission Bandwidth	-

5.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

For 6 dB Bandwidth:

Spectrum Parameters	Setting
Span	> Measurement Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span	Between 1.5 times and 5.0 times the OBW
RBW	300 kHz For 20MHz 1 MHz For 40MHz
VBW	1 MHz For 20MHz 3 MHz For 40MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX D.

6. MAXIMUM OUTPUT POWER

6.1 LIMIT

Section	Test Item	Limit
FCC 15.247(b)(3)	Maximum Output Power	1.0000 Watt or 30.00 dBm

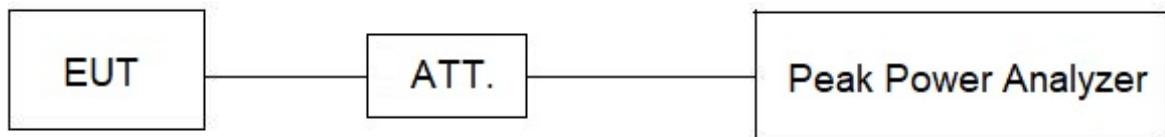
6.2 TEST PROCEDURE

- a. The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- b. The maximum conducted output power was performed in accordance with method 11.9.2.3.1 of ANSI C63.10-2013.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX E.

7. CONDUCTED SPURIOUS EMISSIONS

7.1 LIMIT

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

7.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX F.

8. POWER SPECTRAL DENSITY

8.1 LIMIT

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

8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span	25 MHz (20 MHz) / 60 MHz (40 MHz)
RBW	3 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX G.

9. MEASUREMENT INSTRUMENTS LIST

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	101051	2024/6/26	2025/6/25
2	Test Cable	EMCI	EMCRG58-BM-B M-9000	210501	2024/12/10	2025/12/9
3	EMC Receiver	Keysight	N9038A	MY54130009	2024/6/27	2025/6/26
4	Measurement Software	Farad	EZ EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions - Below 1GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01207	2024/12/4	2025/12/3
2	EMC Receiver	Keysight	N9038A	MY54130009	2024/6/27	2025/6/26
3	Pre-Amplifier	EMCI	EMC001330-202 01222	980807	2024/12/9	2025/12/8
4	Test Cable	EMCI	EMC-8D-NM-NM -5000	150106	2024/12/9	2025/12/8
5	Test Cable	EMCI	EMC-CFD-400-N M-NM-8000	200348	2024/12/9	2025/12/8
6	Test Cable	EMCI	EMC-CFD-400-N M-NM-3300	200343	2024/12/9	2025/12/8
7	Measurement Software	Farad	EZ EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions - Above 1GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Broad-Band Horn Antenna	RFSPIN	DRH18-E	210109A18E	2025/1/14	2026/1/13
2	Pre-Amplifier	EMCI	EMC118A45SE	981030	2024/12/10	2025/12/9
3	Test Cable	EMCI	EMC105-SM-SM-1000	210119	2024/12/10	2025/12/9
4	Test Cable	EMCI	EMC105-SM-SM-3000	210118	2024/12/10	2025/12/9
5	Test Cable	EMCI	EMC105-SM-SM-7000	210117	2024/12/10	2025/12/9
6	EXA Spectrum Analyzer	keysight	N9020B	MY59050137	2024/11/24	2025/11/25
7	Measurement Software	Farad	EZ EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions - Above 18GHz

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Pre-Amplifier	EMCI	EMC184045SE	980512	2024/12/10	2025/12/9
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	340	2024/6/27	2025/6/26
3	Test Cable	EMCI	EMC102-KM-KM-1000	220328	2024/12/10	2025/12/9
4	Test Cable	EMCI	EMC101G-KM-KM-3000	220330	2024/12/10	2025/12/9
5	Measurement Software	Farad	EZ_EMC (Ver. NB-03A1-01)	N/A	N/A	N/A

**Bandwidth &
Conducted Spurious Emission &
Power Spectral Density**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 30	100854	2024/6/27	2025/6/26
2	10dbAttenuator	INMET	AHC-10dB	1	2024/11/26	2025/11/25
3	BTL-Conduced Test	BTL	1247788684	N/A	N/A	N/A

Output Power

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	USB Peak Power Sensor	Anritsu	MA24408A	12589	2024/10/25	2025/10/24
2	10dbAttenuator	INMET	AHC-10dB	1	2024/11/26	2025/11/25
3	Measurement Software	Anritsu	MA2440A Peak Power analyzer(Ver1.1.0.0)	N/A	N/A	N/A

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

10. EUT TEST PHOTO

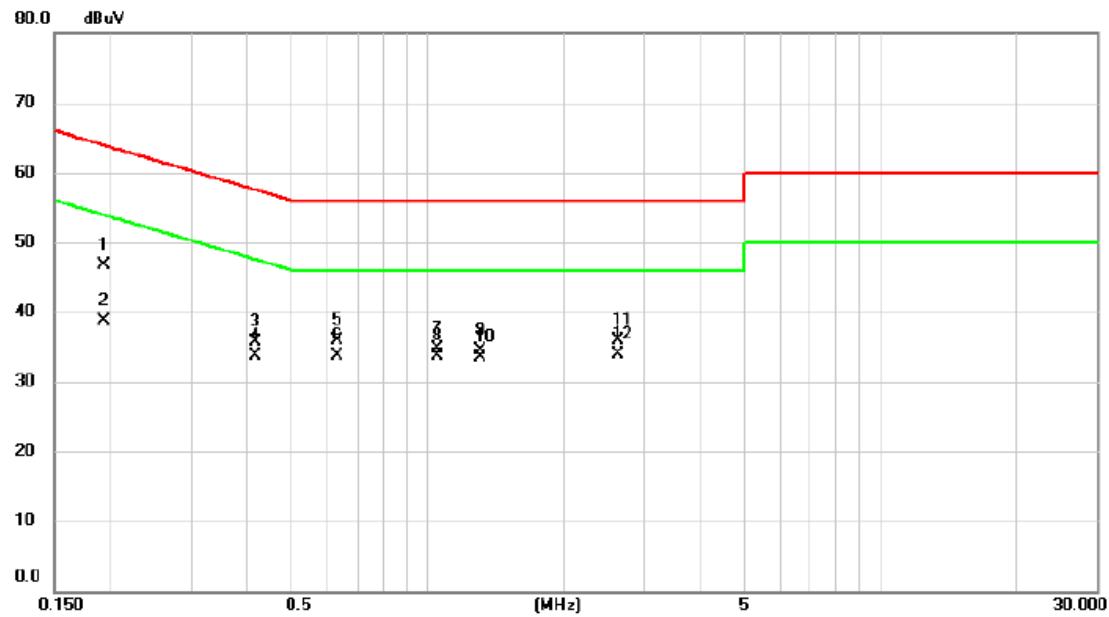
Please refer to document Appendix No.: TP-2412C115-1 (APPENDIX-TEST PHOTOS).

11. EUT PHOTOS

Please refer to document Appendix No.: EP-2412C115-1 (APPENDIX-EUT PHOTOS).

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Phase	Line
Test Frequency	-	Test Date	2025/5/5

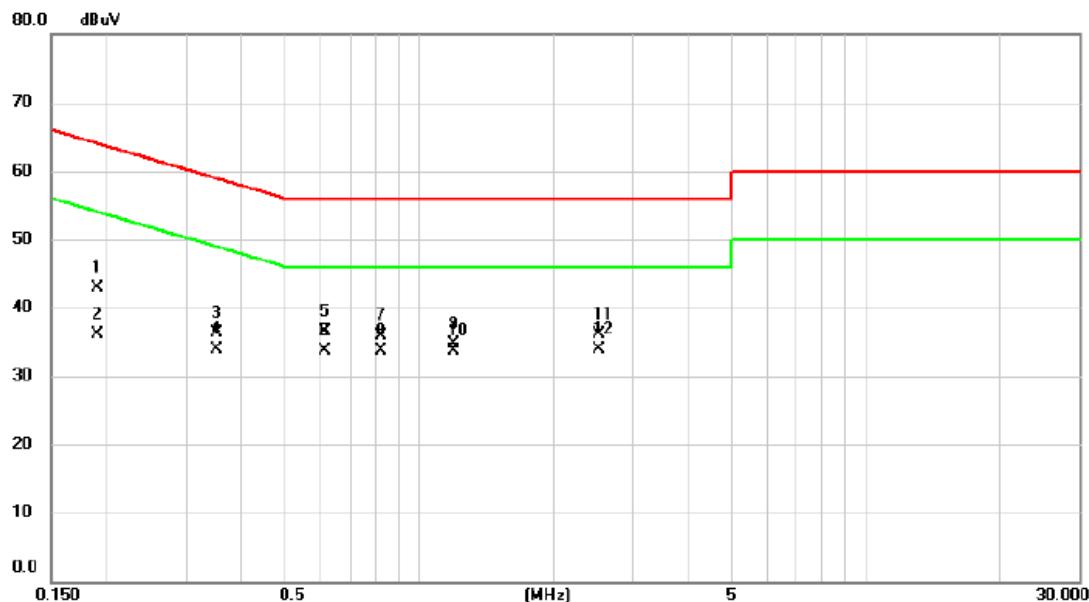


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1923	37.04	9.62	46.66	63.94	-17.28	QP	
2		0.1923	29.02	9.62	38.64	53.94	-15.30	AVG	
3		0.4153	26.03	9.61	35.64	57.54	-21.90	QP	
4		0.4153	24.08	9.61	33.69	47.54	-13.85	AVG	
5		0.6305	26.33	9.62	35.95	56.00	-20.05	QP	
6		0.6305	24.00	9.62	33.62	46.00	-12.38	AVG	
7		1.0535	25.17	9.62	34.79	56.00	-21.21	QP	
8		1.0535	24.17	9.62	33.79	46.00	-12.21	AVG	
9		1.3100	24.80	9.65	34.45	56.00	-21.55	QP	
10		1.3100	23.84	9.65	33.49	46.00	-12.51	AVG	
11		2.6240	26.23	9.74	35.97	56.00	-20.03	QP	
12 *		2.6240	24.07	9.74	33.81	46.00	-12.19	AVG	

REMARKS:

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

Test Mode	Normal	Phase	Neutral
Test Frequency	-	Test Date	2025/5/5



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dB	Margin Detector	Comment
1	0.1901	33.25	9.62	42.87	64.03	-21.16	QP	
2	0.1901	26.42	9.62	36.04	54.03	-17.99	AVG	
3	0.3510	26.70	9.61	36.31	58.94	-22.63	QP	
4	0.3510	24.32	9.61	33.93	48.94	-15.01	AVG	
5	0.6125	26.81	9.61	36.42	56.00	-19.58	QP	
6	0.6125	24.07	9.61	33.68	46.00	-12.32	AVG	
7	0.8195	26.37	9.61	35.98	56.00	-20.02	QP	
8	0.8195	24.11	9.61	33.72	46.00	-12.28	AVG	
9	1.1930	25.04	9.64	34.68	56.00	-21.32	QP	
10	1.1930	24.00	9.64	33.64	46.00	-12.36	AVG	
11	2.5160	26.34	9.74	36.08	56.00	-19.92	QP	
12 *	2.5160	24.11	9.74	33.85	46.00	-12.15	AVG	

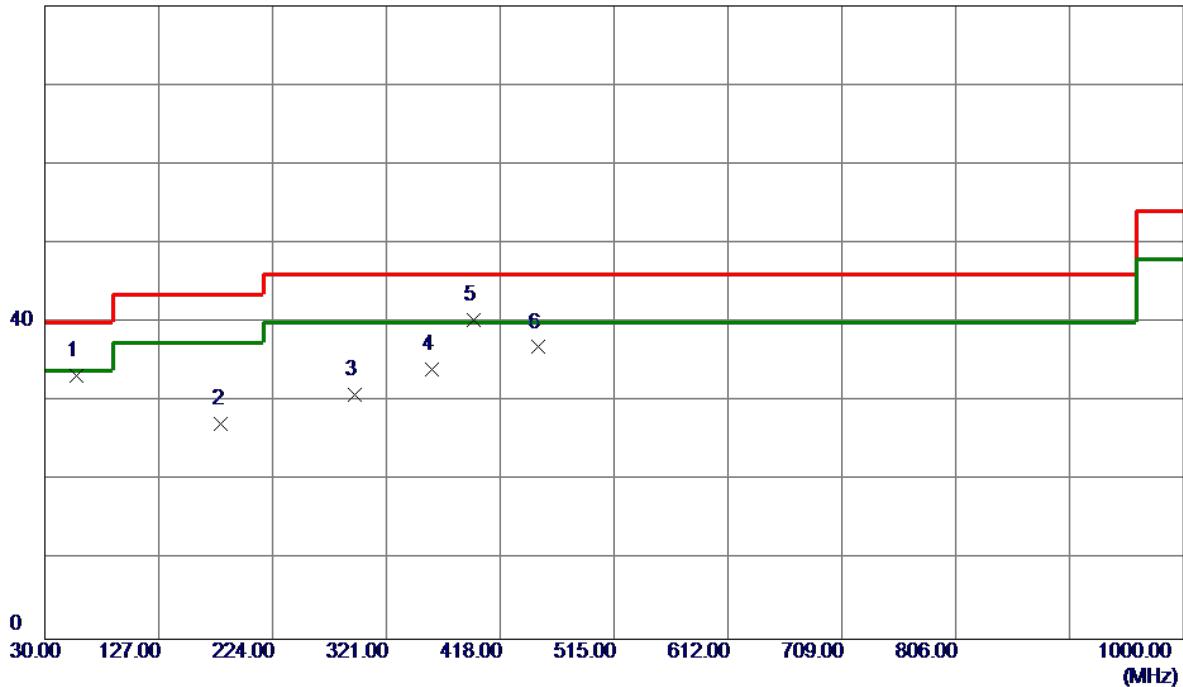
REMARKS:

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

APPENDIX B - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode	B Mode	Polarization	Vertical
Test Frequency	2437 MHz	Test Date	2025/5/2

80 dBuV/m



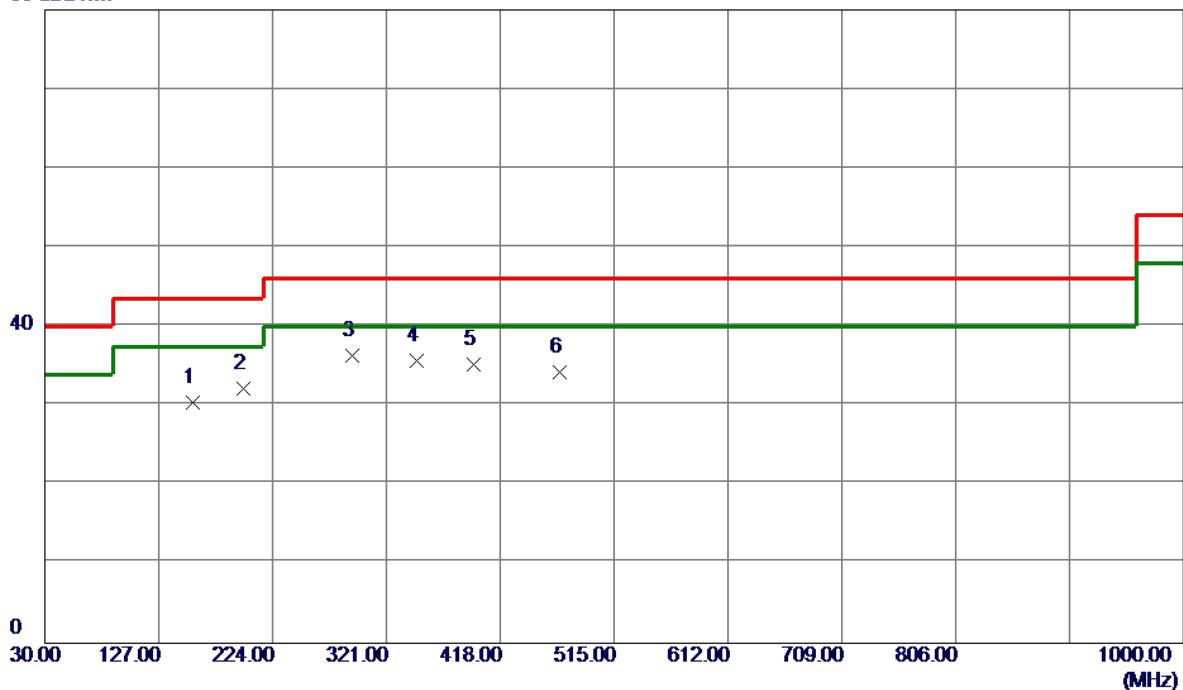
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	57.1600	44.96	-11.63	33.33	40.00	-6.67	Peak	
2	180.3500	40.24	-12.97	27.27	43.50	-16.23	Peak	
3	293.8400	40.96	-10.08	30.88	46.00	-15.12	Peak	
4	359.8000	42.52	-8.39	34.13	46.00	-11.87	Peak	
5 *	395.6900	47.42	-7.15	40.27	46.00	-5.73	Peak	
6	450.0100	42.59	-5.71	36.88	46.00	-9.12	Peak	

REMARKS:

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

Test Mode	B Mode	Polarization	Vertical
Test Frequency	2437 MHz	Test Date	2025/5/2

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	156.1000	41.51	-11.05	30.46	43.50	-13.04	Peak	
2	198.7800	46.17	-14.03	32.14	43.50	-11.36	Peak	
3 *	291.9000	46.37	-10.10	36.27	46.00	-9.73	Peak	
4	347.1900	44.51	-8.79	35.72	46.00	-10.28	Peak	
5	395.6900	42.36	-7.15	35.21	46.00	-10.79	Peak	
6	468.4400	39.74	-5.46	34.28	46.00	-11.72	Peak	

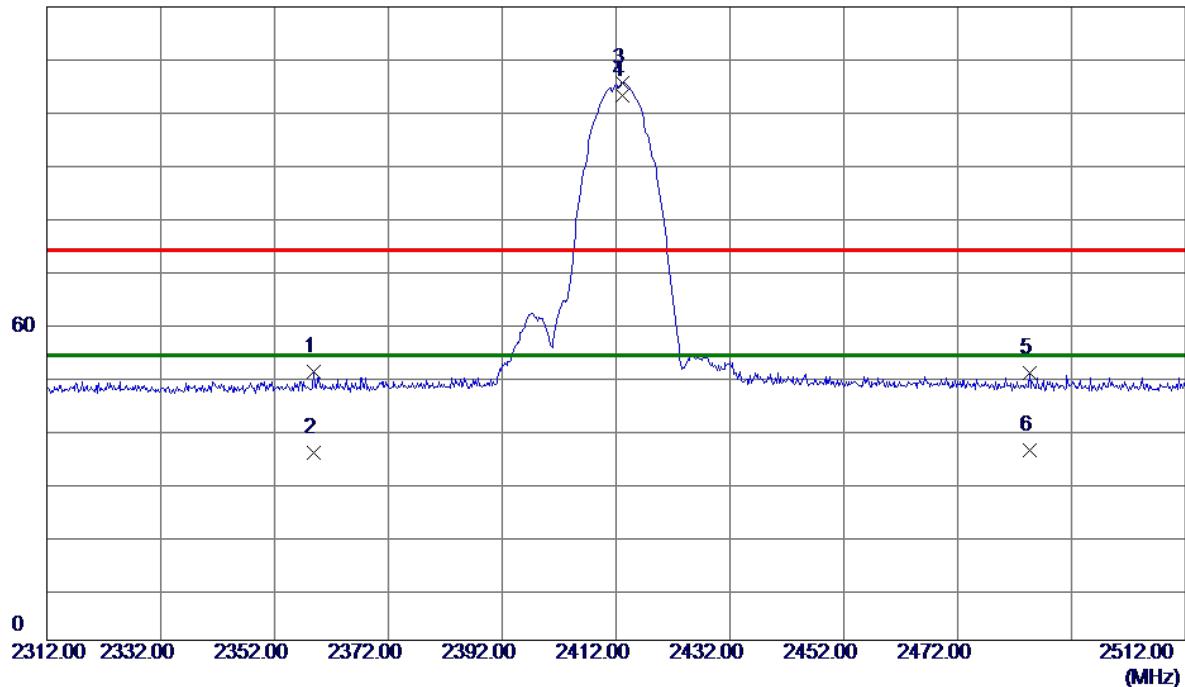
REMARKS:

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

APPENDIX C - RADIATED EMISSION- ABOVE 1000 MHZ

Test Mode	B Mode	Polarization	Vertical
Test Frequency	2412 MHz	Test Date	2025/4/29

120 dBuV/m



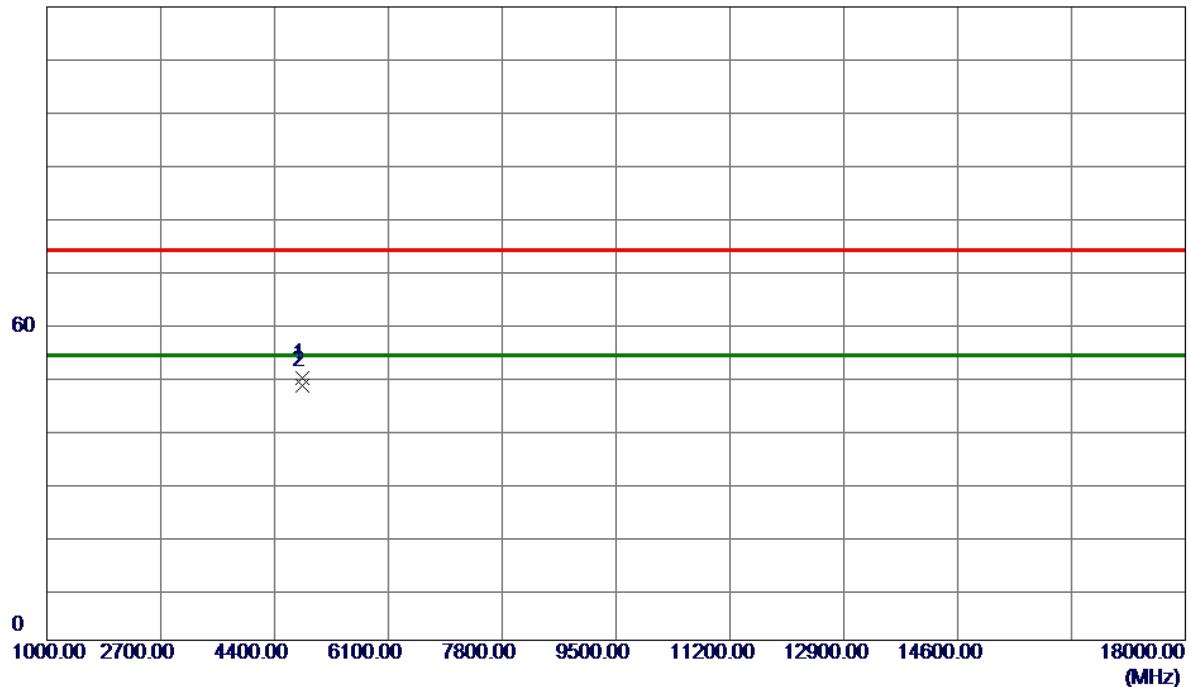
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2358.8000	45.64	5.19	50.83	74.00	-23.17	Peak	
2	2358.8000	30.44	5.19	35.63	54.00	-18.37	AVG	
3	2413.2000	100.42	5.28	105.70	74.00	31.70	Peak	No Limit
4 *	2413.2000	98.03	5.28	103.31	54.00	49.31	AVG	No Limit
5	2484.6000	45.19	5.41	50.60	74.00	-23.40	Peak	
6	2484.6000	30.50	5.41	35.91	54.00	-18.09	AVG	

REMARKS:

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

Test Mode	B Mode	Polarization	Vertical
Test Frequency	2412 MHz	Test Date	2025/4/29

120 dBuV/m



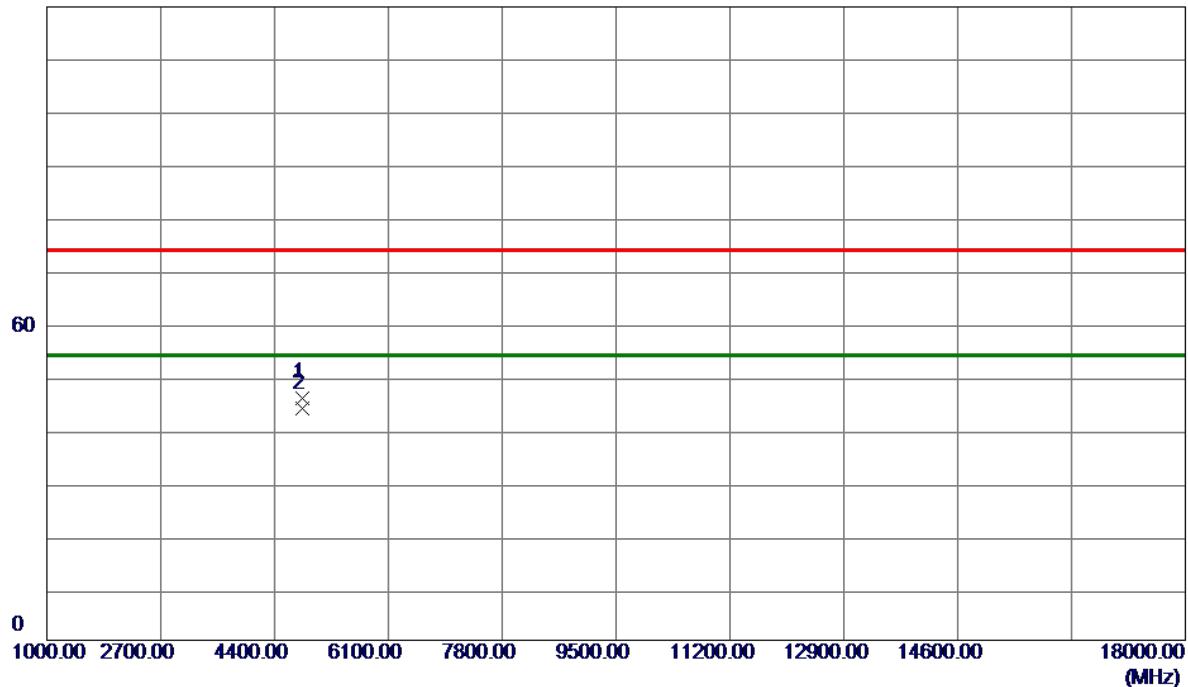
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4824.0000	47.96	1.79	49.75	74.00	-24.25	Peak	
2 *	4824.0000	46.37	1.79	48.16	54.00	-5.84	AVG	

REMARKS:

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

Test Mode	B Mode	Polarization	Horizontal
Test Frequency	2412 MHz	Test Date	2025/4/29

120 dBuV/m



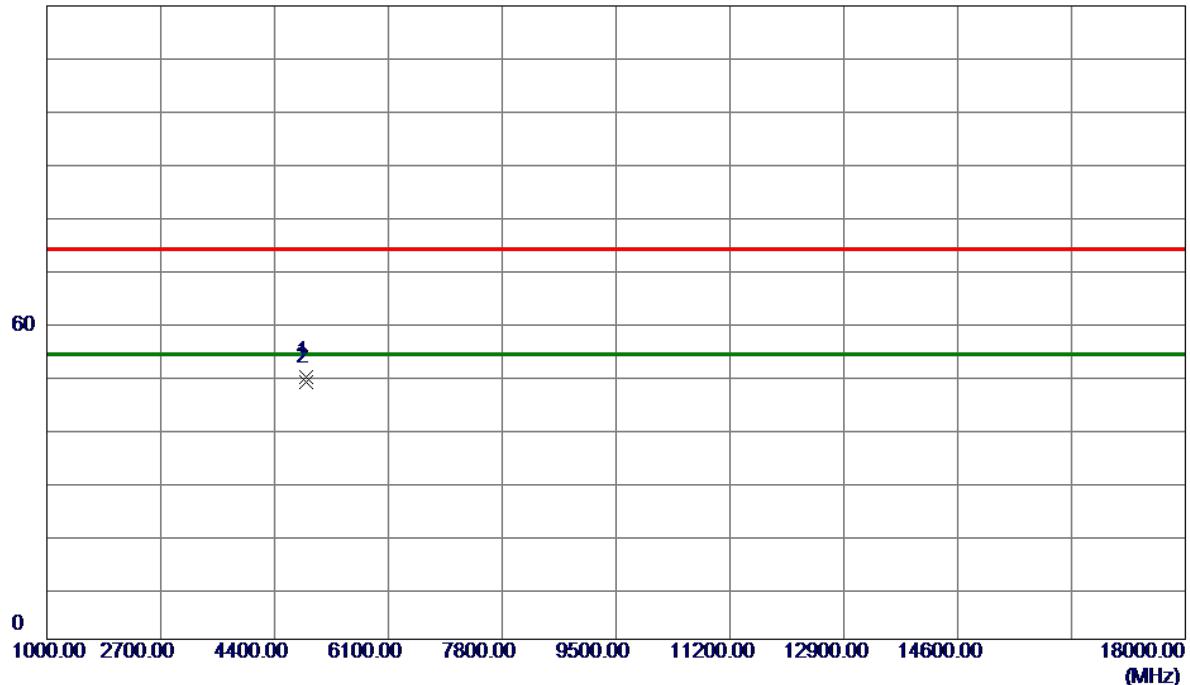
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4824.0000	44.17	1.79	45.96	74.00	-28.04	Peak	
2 *	4824.0000	42.04	1.79	43.83	54.00	-10.17	AVG	

REMARKS:

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

Test Mode	B Mode	Polarization	Vertical
Test Frequency	2437 MHz	Test Date	2025/4/29

120 dBuV/m



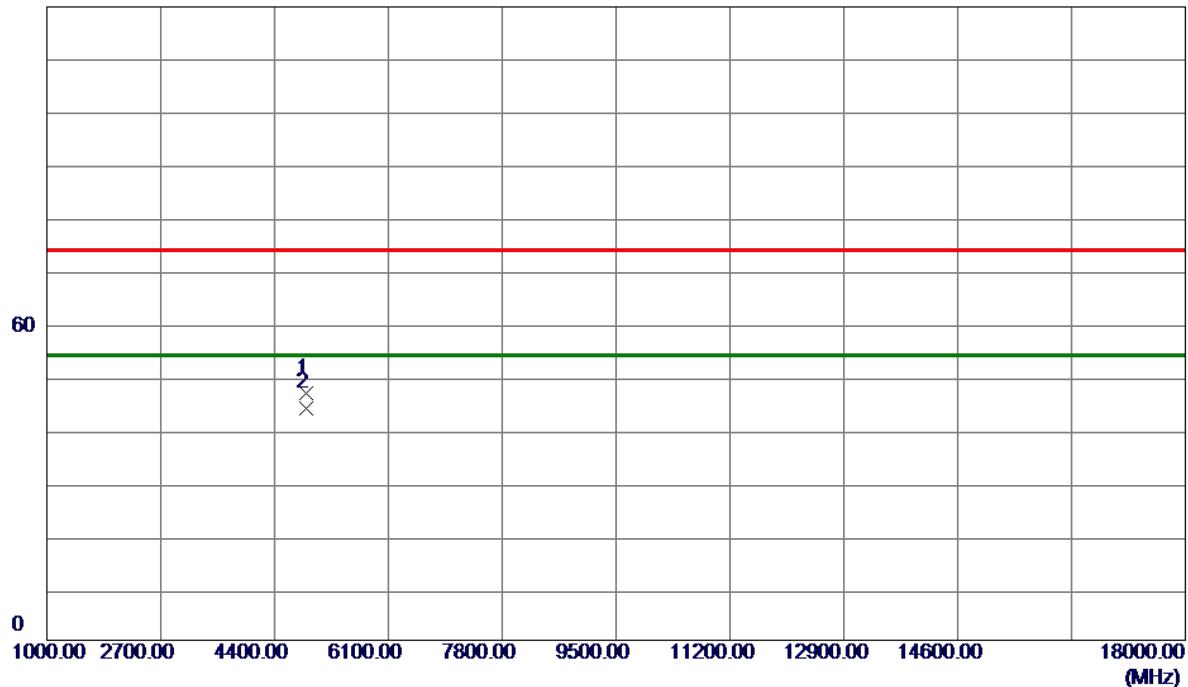
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4874.0000	47.93	1.87	49.80	74.00	-24.20	Peak	
2 *	4874.0000	46.84	1.87	48.71	54.00	-5.29	AVG	

REMARKS:

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

Test Mode	B Mode	Polarization	Horizontal
Test Frequency	2437 MHz	Test Date	2025/4/29

120 dBuV/m



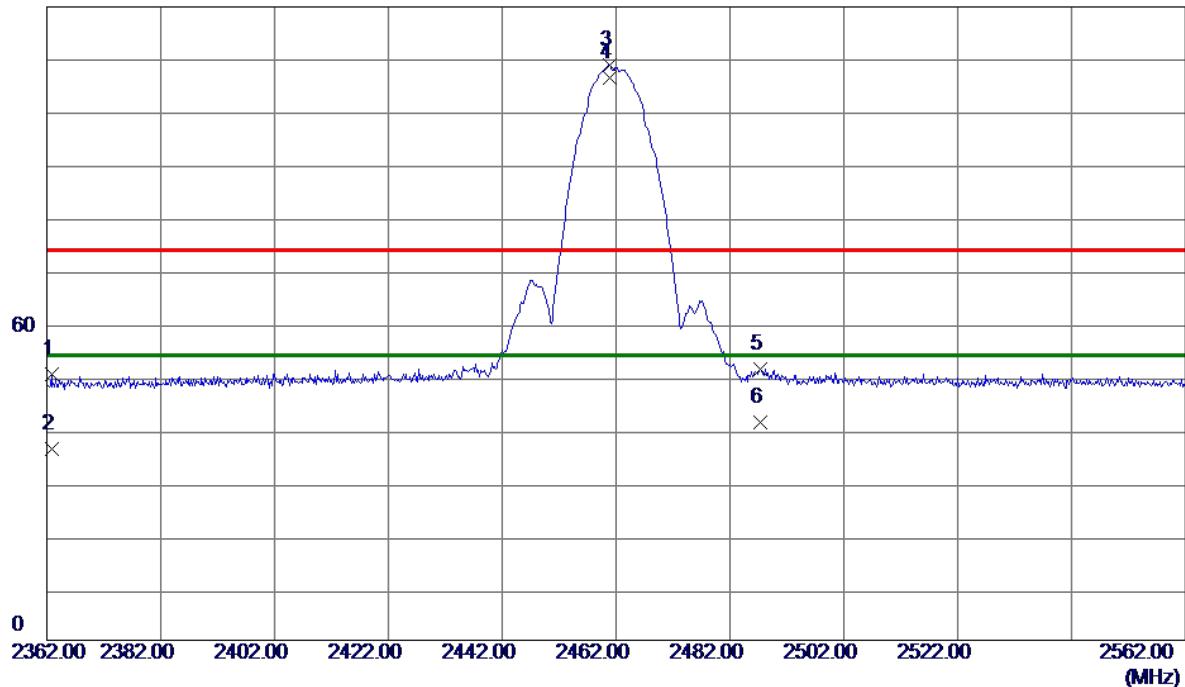
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4874.0000	44.85	1.87	46.72	74.00	-27.28	Peak	
2 *	4874.0000	42.17	1.87	44.04	54.00	-9.96	AVG	

REMARKS:

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

Test Mode	B Mode	Polarization	Vertical
Test Frequency	2462 MHz	Test Date	2025/4/29

120 dBuV/m



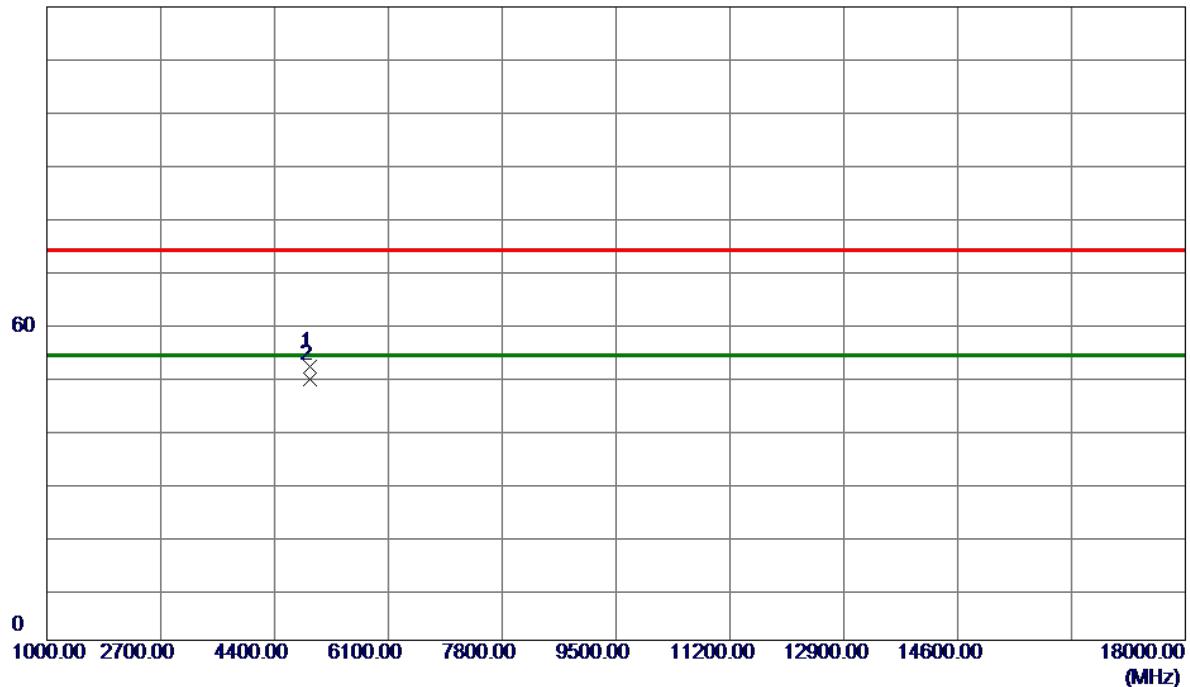
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2362.8000	45.16	5.19	50.35	74.00	-23.65	Peak	
2	2362.8000	31.02	5.19	36.21	54.00	-17.79	AVG	
3	2460.8000	103.51	5.37	108.88	74.00	34.88	Peak	No Limit
4 *	2460.8000	101.19	5.37	106.56	54.00	52.56	AVG	No Limit
5	2487.4000	46.05	5.42	51.47	74.00	-22.53	Peak	
6	2487.4000	35.86	5.42	41.28	54.00	-12.72	AVG	

REMARKS:

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

Test Mode	B Mode	Polarization	Vertical
Test Frequency	2462 MHz	Test Date	2025/4/29

120 dBuV/m



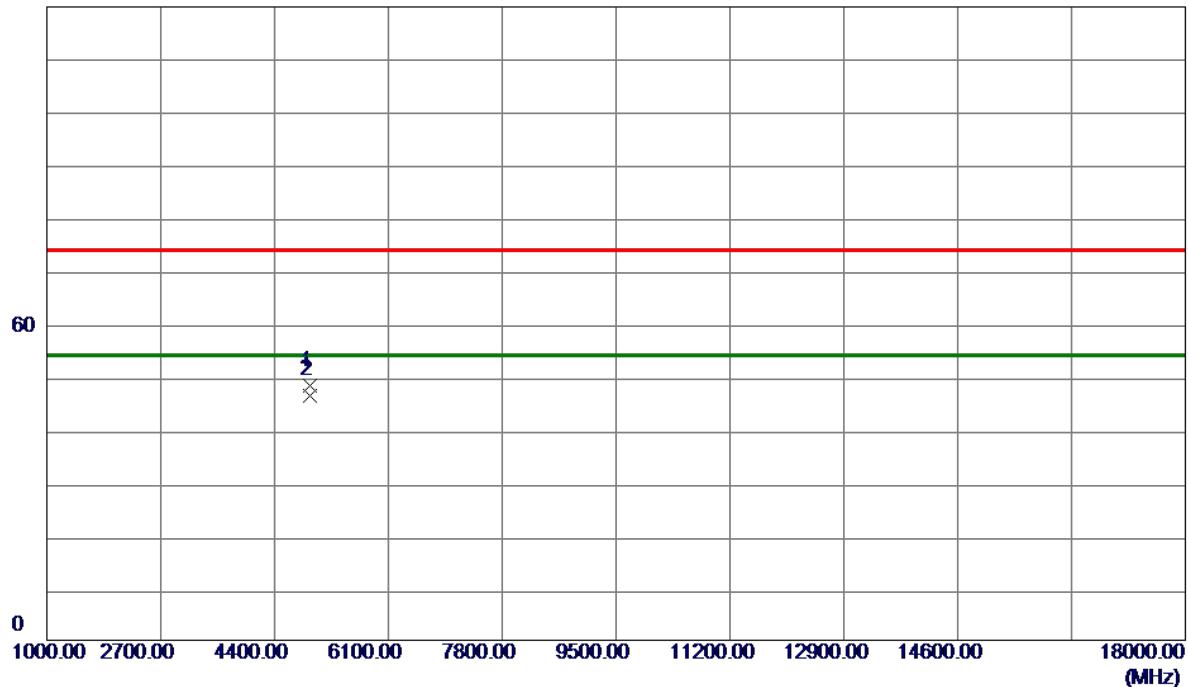
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4924.0000	49.81	1.96	51.77	74.00	-22.23	Peak	
2 *	4924.0000	47.57	1.96	49.53	54.00	-4.47	AVG	

REMARKS:

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

Test Mode	B Mode	Polarization	Horizontal
Test Frequency	2462 MHz	Test Date	2025/4/29

120 dBuV/m



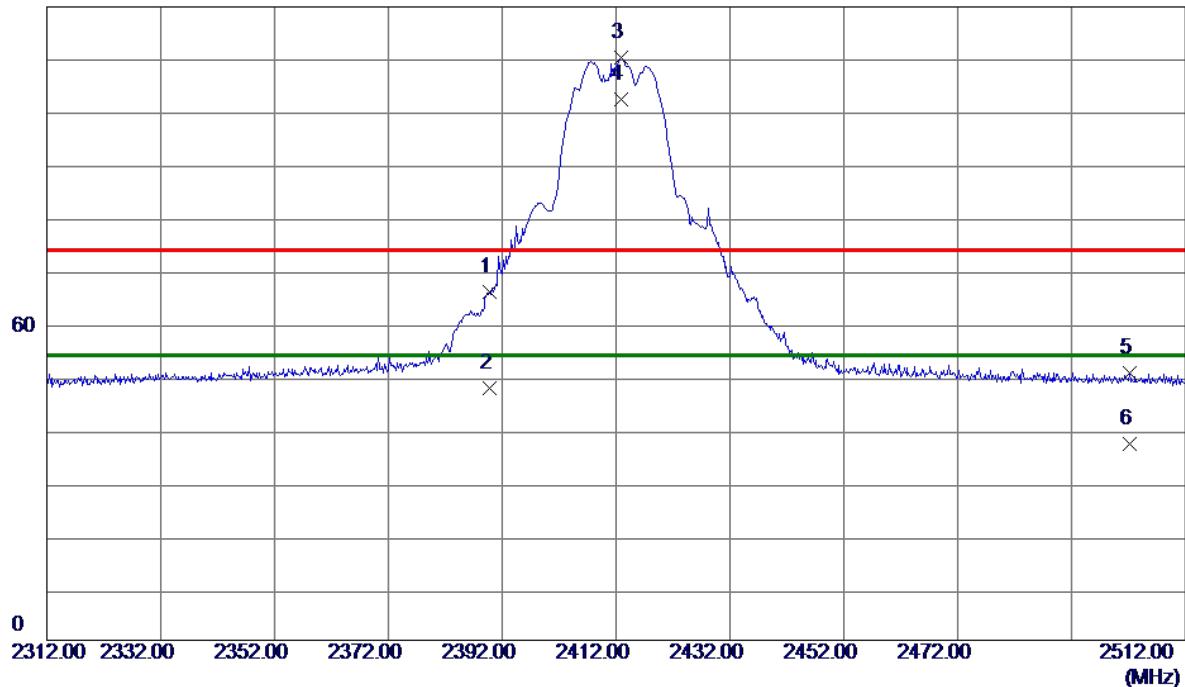
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4924.000	46.38	1.96	48.34	74.00	-25.66	Peak	
2 *	4924.000	44.48	1.96	46.44	54.00	-7.56	AVG	

REMARKS:

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

Test Mode	G Mode	Polarization	Vertical
Test Frequency	2412 MHz	Test Date	2025/4/29

120 dBuV/m



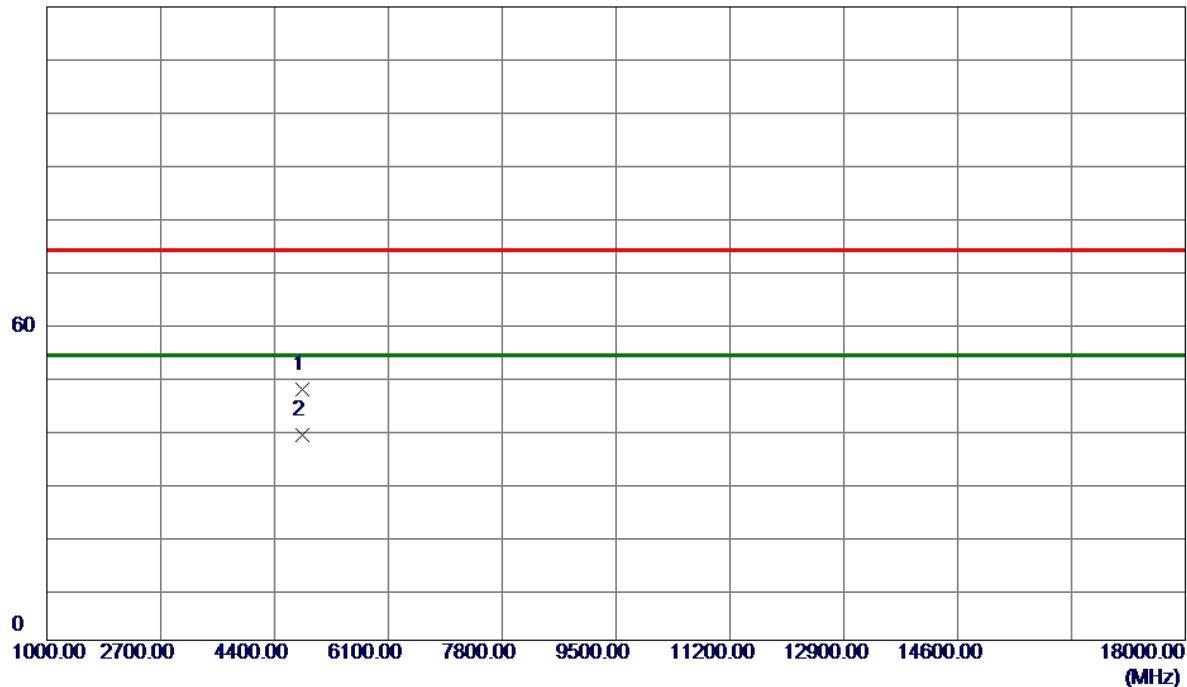
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m dB	Margin dB	Detector	Comment
1	2389.8000	60.76	5.24	66.00	74.00	-8.00	Peak	
2	2389.8000	42.54	5.24	47.78	54.00	-6.22	AVG	
3	2412.8000	105.04	5.28	110.32	74.00	36.32	Peak	No Limit
4 *	2412.8000	97.31	5.28	102.59	54.00	48.59	AVG	No Limit
5	2502.2000	45.20	5.45	50.65	74.00	-23.35	Peak	
6	2502.2000	31.86	5.45	37.31	54.00	-16.69	AVG	

REMARKS:

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

Test Mode	G Mode	Polarization	Vertical
Test Frequency	2412 MHz	Test Date	2025/4/29

120 dBuV/m



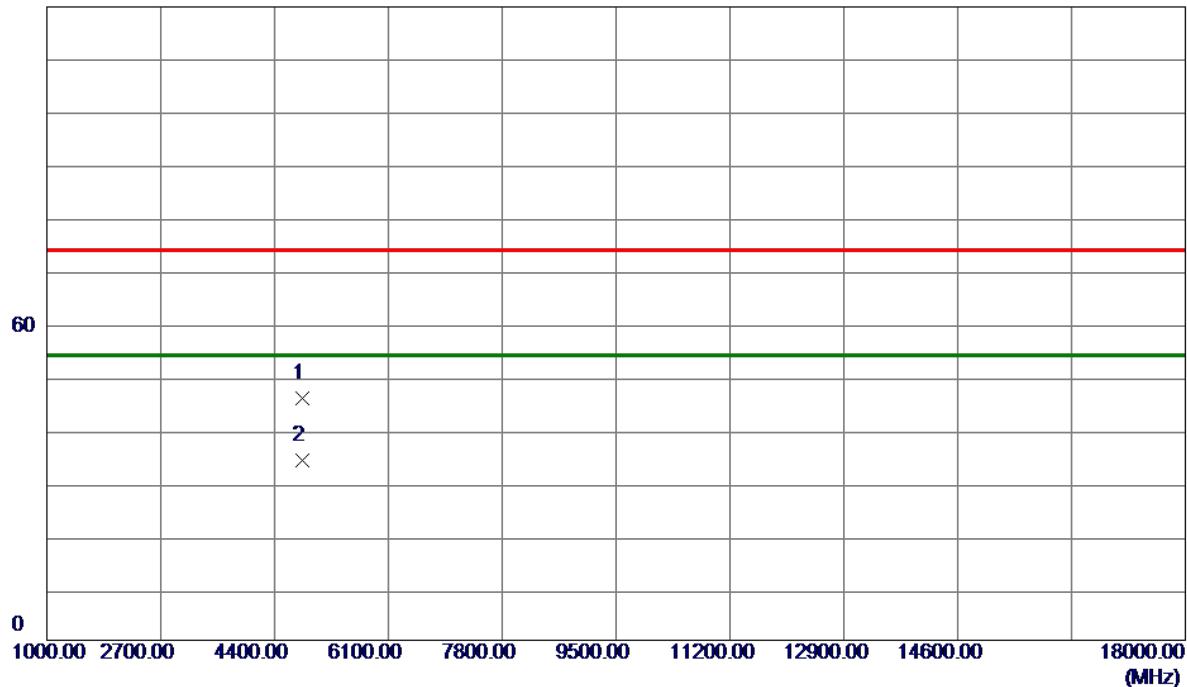
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	
							Detector	Comment
1	4824.0000	45.84	1.79	47.63	74.00	-26.37	Peak	
2 *	4824.0000	37.15	1.79	38.94	54.00	-15.06	AVG	

REMARKS:

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

Test Mode	G Mode	Polarization	Horizontal
Test Frequency	2412 MHz	Test Date	2025/4/29

120 dBuV/m



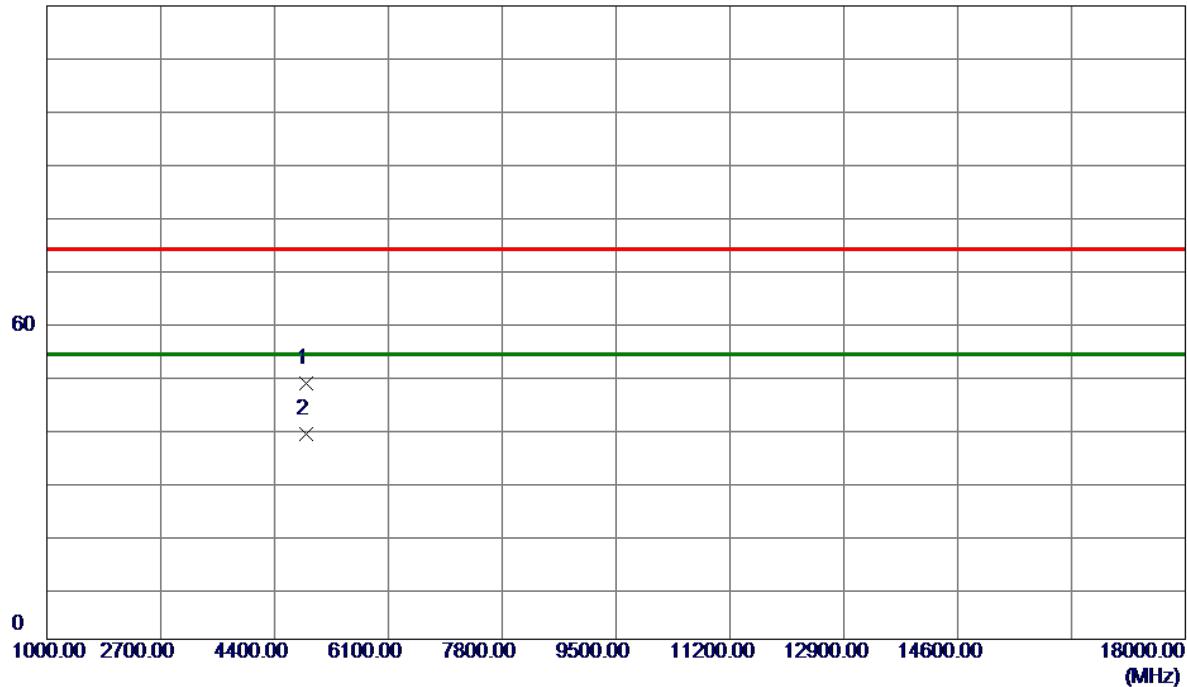
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4824.0000	44.10	1.79	45.89	74.00	-28.11	Peak	
2 *	4824.0000	32.32	1.79	34.11	54.00	-19.89	AVG	

REMARKS:

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

Test Mode	G Mode	Polarization	Vertical
Test Frequency	2437 MHz	Test Date	2025/4/29

120 dBuV/m



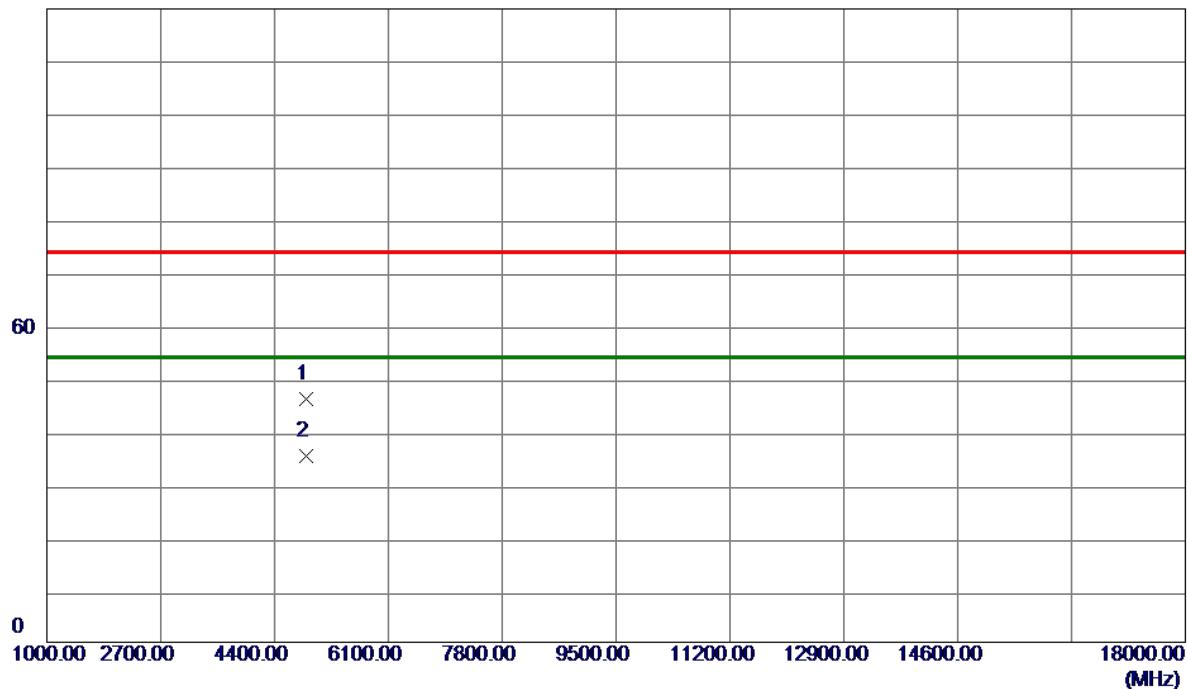
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
							MHz	dBuV/m
1	4874.0000	46.56	1.87	48.43	74.00	-25.57	Peak	
2 *	4874.0000	37.02	1.87	38.89	54.00	-15.11	AVG	

REMARKS:

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

Test Mode	G Mode	Polarization	Horizontal
Test Frequency	2437 MHz	Test Date	2025/4/29

120 dBuV/m



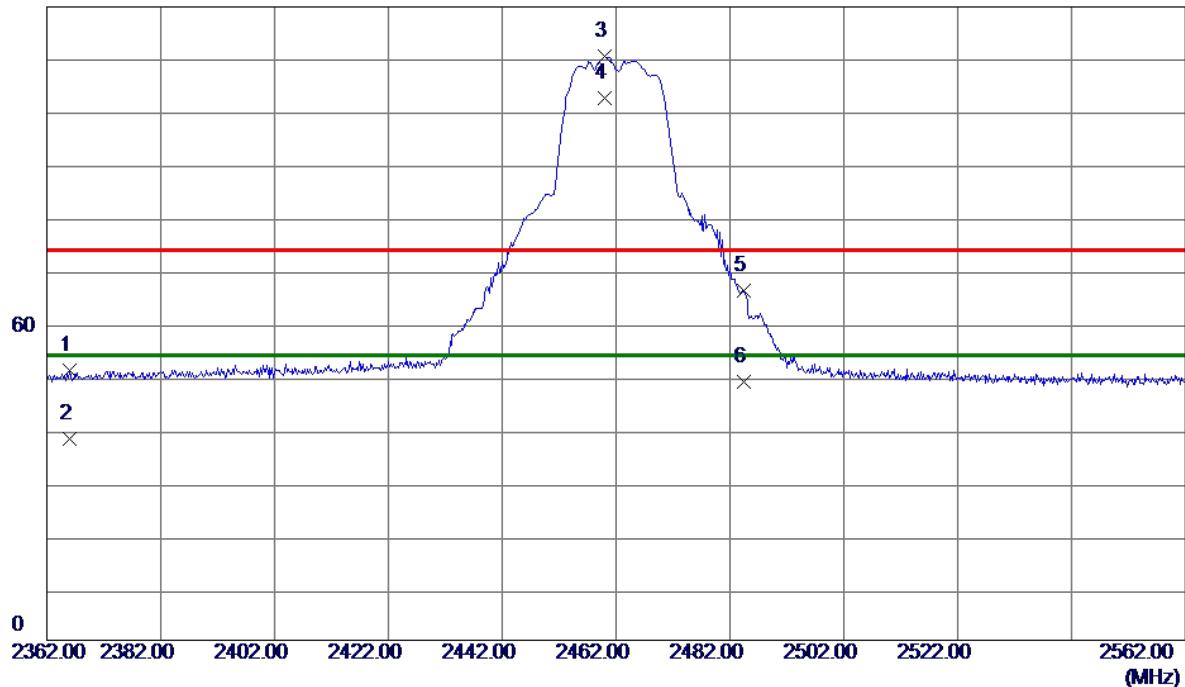
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4874.0000	44.27	1.87	46.14	74.00	-27.86	Peak	
2 *	4874.0000	33.40	1.87	35.27	54.00	-18.73	AVG	

REMARKS:

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

Test Mode	G Mode	Polarization	Vertical
Test Frequency	2462 MHz	Test Date	2025/4/29

120 dBuV/m



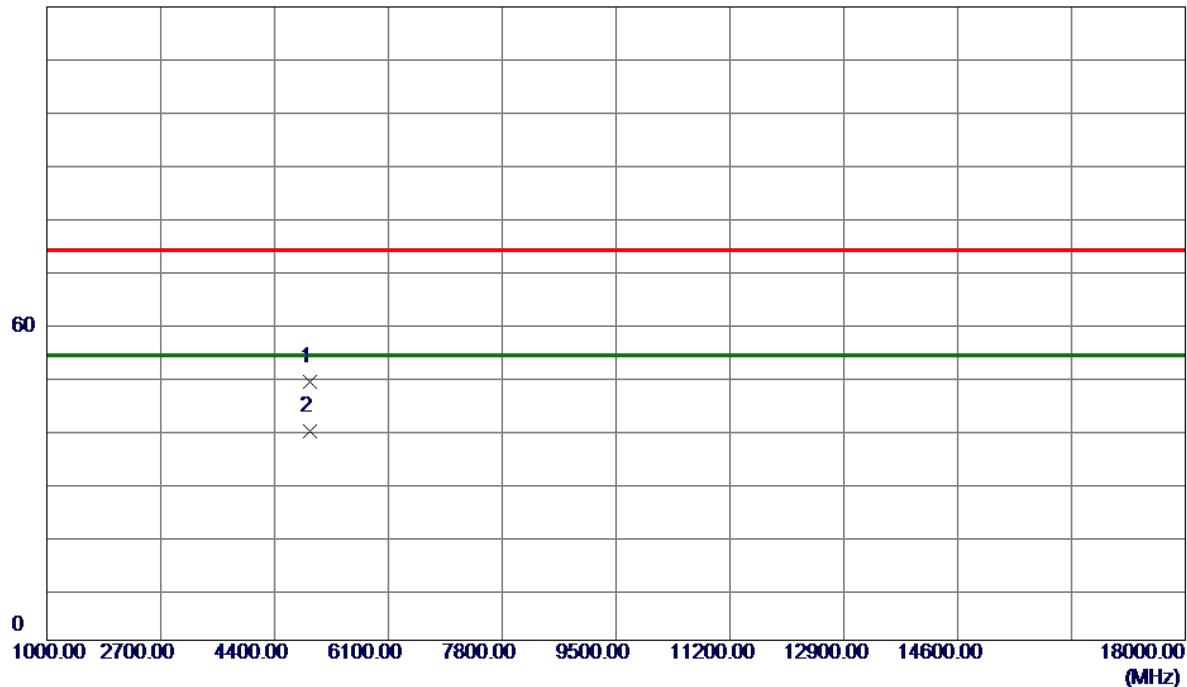
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2366.0000	46.02	5.20	51.22	74.00	-22.78	Peak	
2	2366.0000	32.88	5.20	38.08	54.00	-15.92	AVG	
3	2460.0000	105.22	5.37	110.59	74.00	36.59	Peak	No Limit
4 *	2460.0000	97.44	5.37	102.81	54.00	48.81	AVG	No Limit
5	2484.4000	60.93	5.41	66.34	74.00	-7.66	Peak	
6	2484.4000	43.66	5.41	49.07	54.00	-4.93	AVG	

REMARKS:

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

Test Mode	G Mode	Polarization	Vertical
Test Frequency	2462 MHz	Test Date	2025/4/29

120 dBuV/m



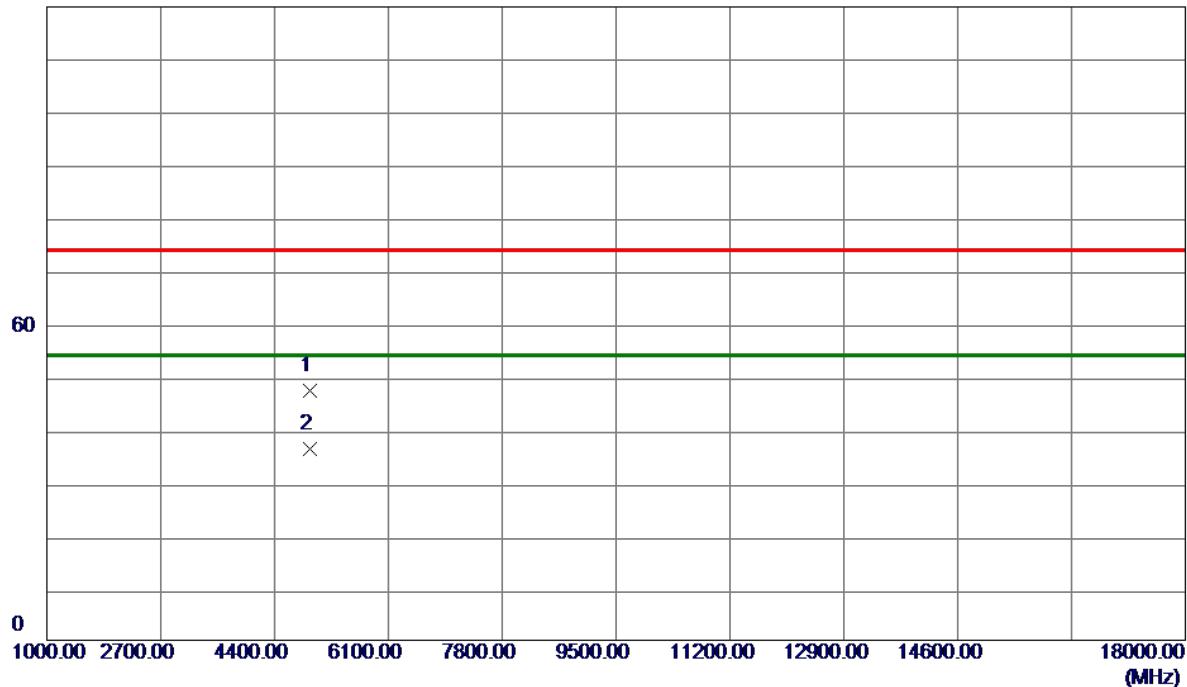
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4924.0000	47.07	1.96	49.03	74.00	-24.97	Peak	
2 *	4924.0000	37.62	1.96	39.58	54.00	-14.42	AVG	

REMARKS:

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

Test Mode	G Mode	Polarization	Horizontal
Test Frequency	2462 MHz	Test Date	2025/4/29

120 dBuV/m

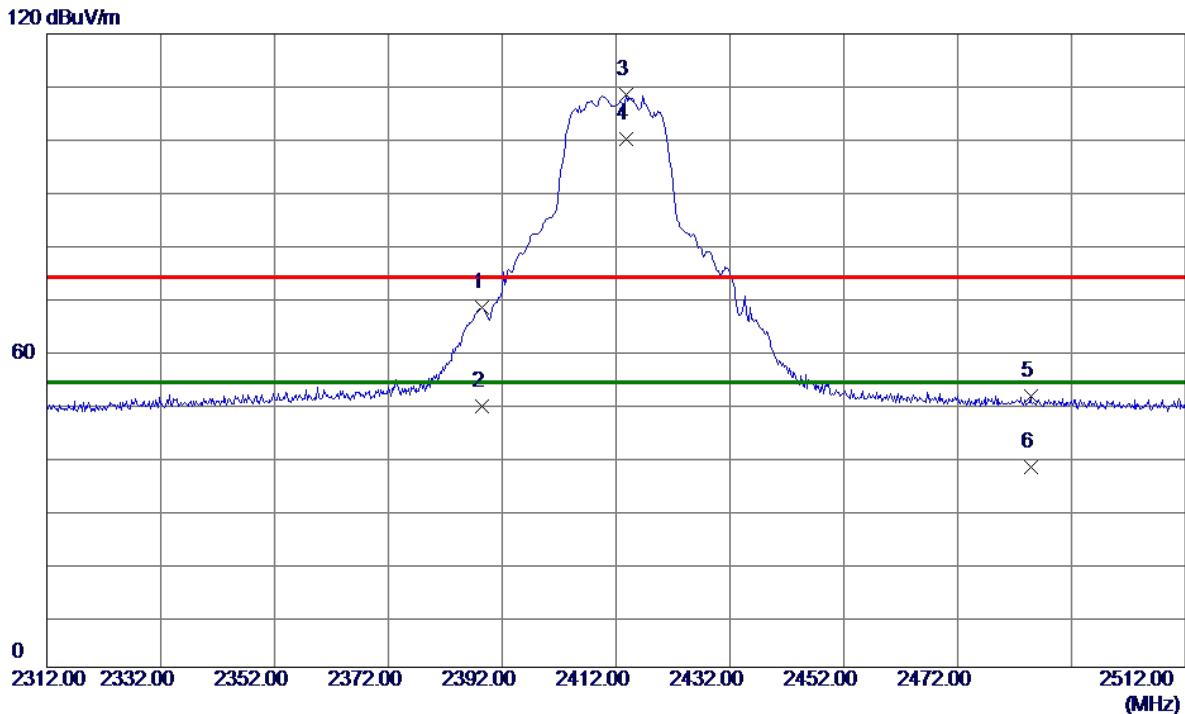


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4924.0000	45.26	1.96	47.22	74.00	-26.78	Peak	
2 *	4924.0000	34.18	1.96	36.14	54.00	-17.86	AVG	

REMARKS:

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

Test Mode	N(HT20) Mode	Polarization	Vertical
Test Frequency	2412 MHz	Test Date	2025/4/29



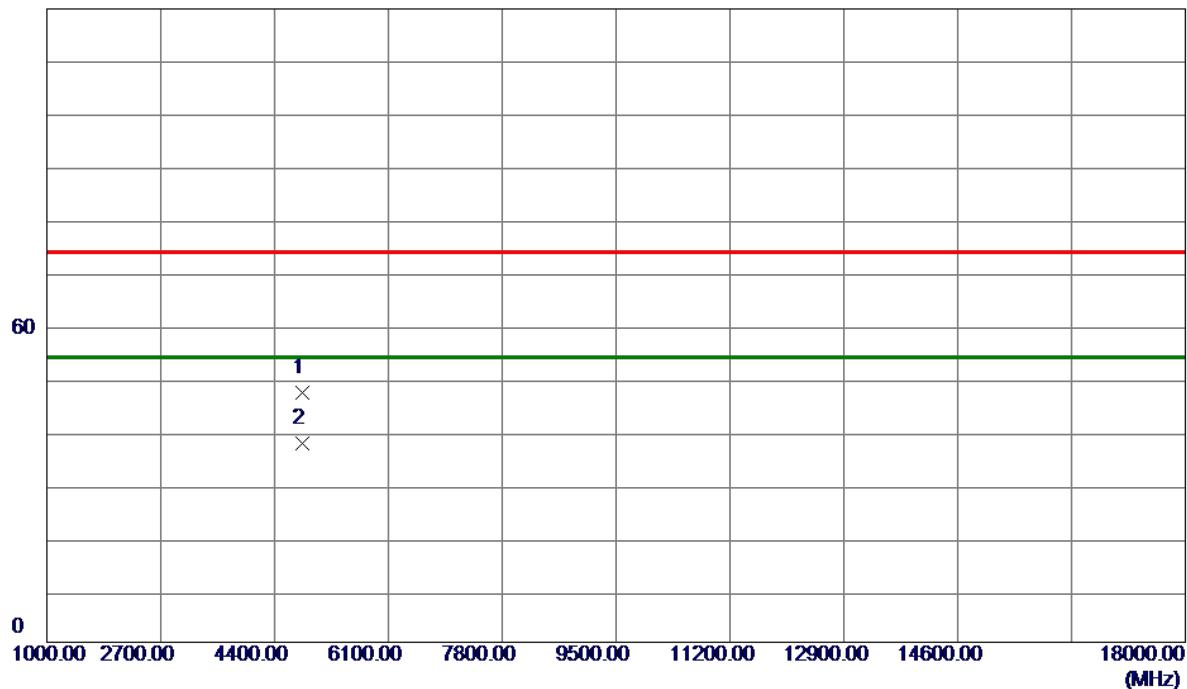
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.4000	62.87	5.24	68.11	74.00	-5.89	Peak	
2	2388.4000	44.12	5.24	49.36	54.00	-4.64	AVG	
3	2413.8000	103.31	5.28	108.59	74.00	34.59	Peak	No Limit
4 *	2413.8000	94.86	5.28	100.14	54.00	46.14	AVG	No Limit
5	2484.8000	45.91	5.41	51.32	74.00	-22.68	Peak	
6	2484.8000	32.51	5.41	37.92	54.00	-16.08	AVG	

REMARKS:

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

Test Mode	N(HT20) Mode	Polarization	Vertical
Test Frequency	2412 MHz	Test Date	2025/4/29

120 dBuV/m

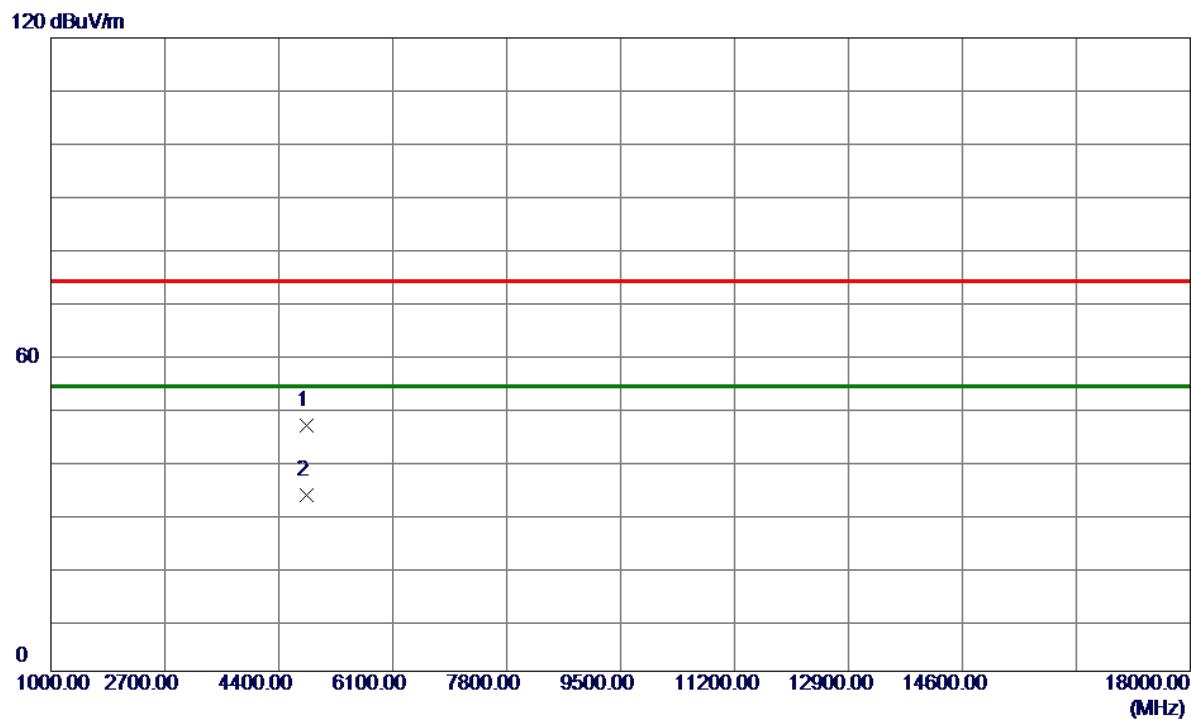


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4824.0000	45.44	1.79	47.23	74.00	-26.77	Peak	
2 *	4824.0000	35.92	1.79	37.71	54.00	-16.29	AVG	

REMARKS:

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

Test Mode	N(HT20) Mode	Polarization	Horizontal
Test Frequency	2412 MHz	Test Date	2025/4/29



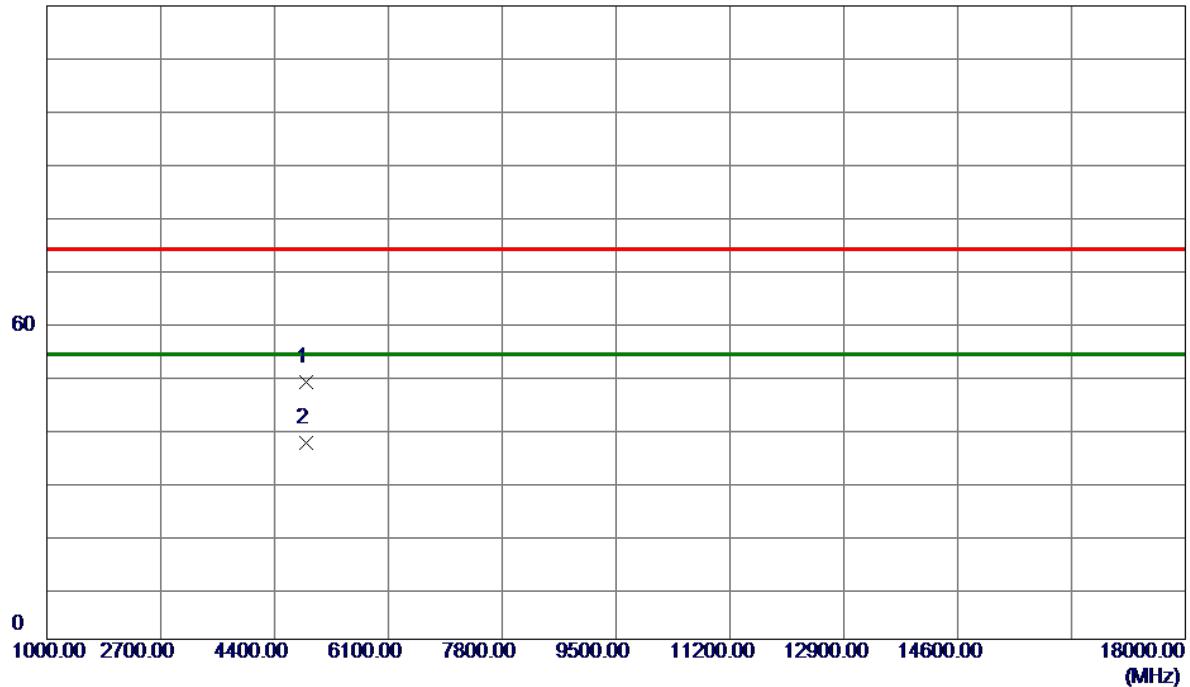
No.	Freq.	Reading Level	Correct Factor	Measure	ment	Limit Margin		Detector	Comment
						MHz	dBuV/m	dB	dB
1	4824.0000	44.70	1.79	46.49	74.00	-27.51	Peak		
2 *	4824.0000	31.56	1.79	33.35	54.00	-20.65	AVG		

REMARKS:

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

Test Mode	N(HT20) Mode	Polarization	Vertical
Test Frequency	2437 MHz	Test Date	2025/4/29

120 dBuV/m



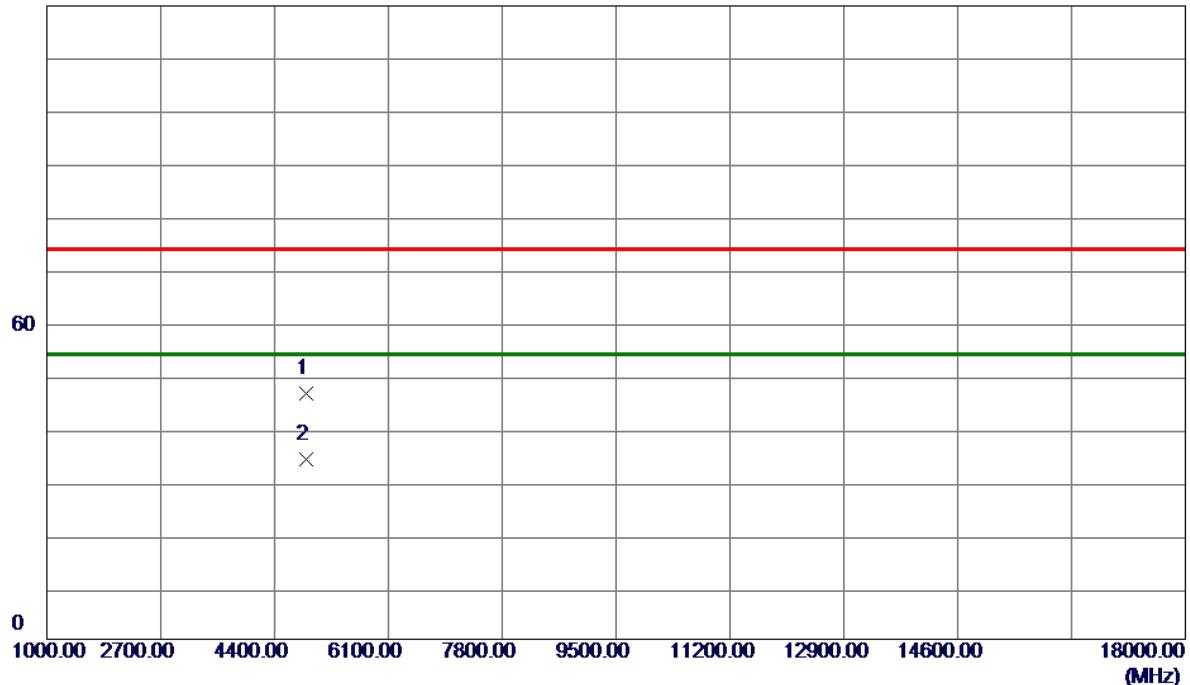
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment	dBuV/m	dB		
1	4874.0000	46.85	1.87	48.72	74.00	-25.28	Peak	
2 *	4874.0000	35.37	1.87	37.24	54.00	-16.76	AVG	

REMARKS:

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

Test Mode	N(HT20) Mode	Polarization	Horizontal
Test Frequency	2437 MHz	Test Date	2025/4/29

120 dBuV/m



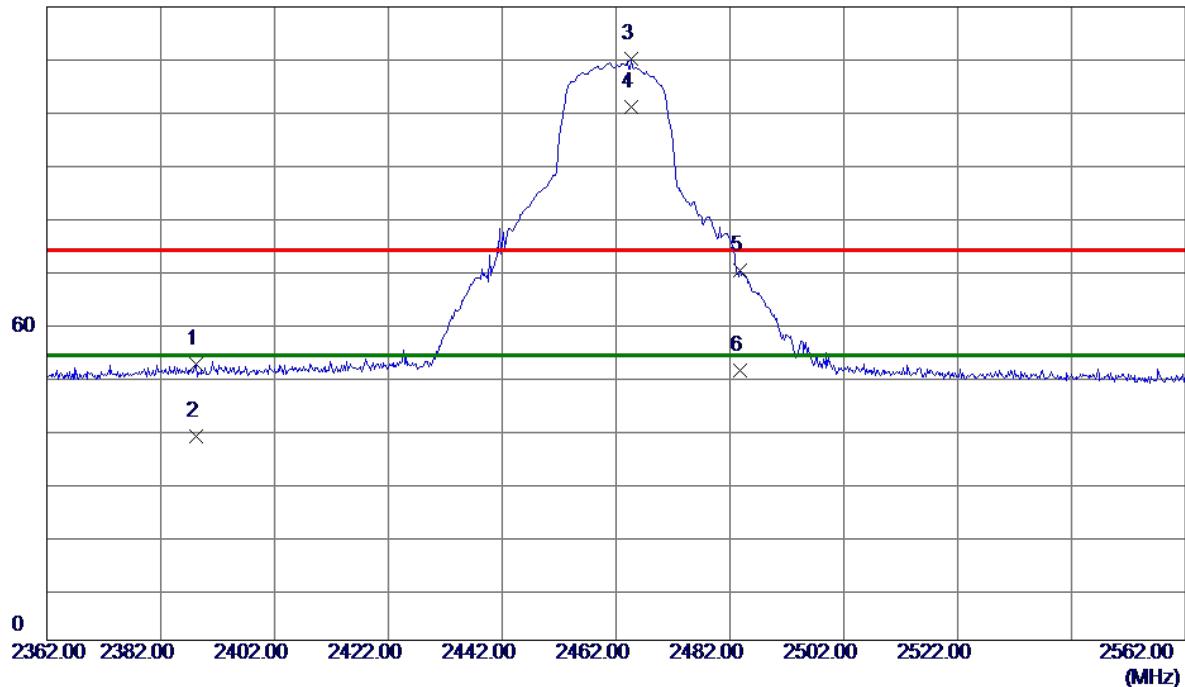
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4874.000	44.73	1.87	46.60	74.00	-27.40	Peak	
2 *	4874.000	32.17	1.87	34.04	54.00	-19.96	AVG	

REMARKS:

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

Test Mode	N(HT20) Mode	Polarization	Vertical
Test Frequency	2462 MHz	Test Date	2025/4/29

120 dBuV/m



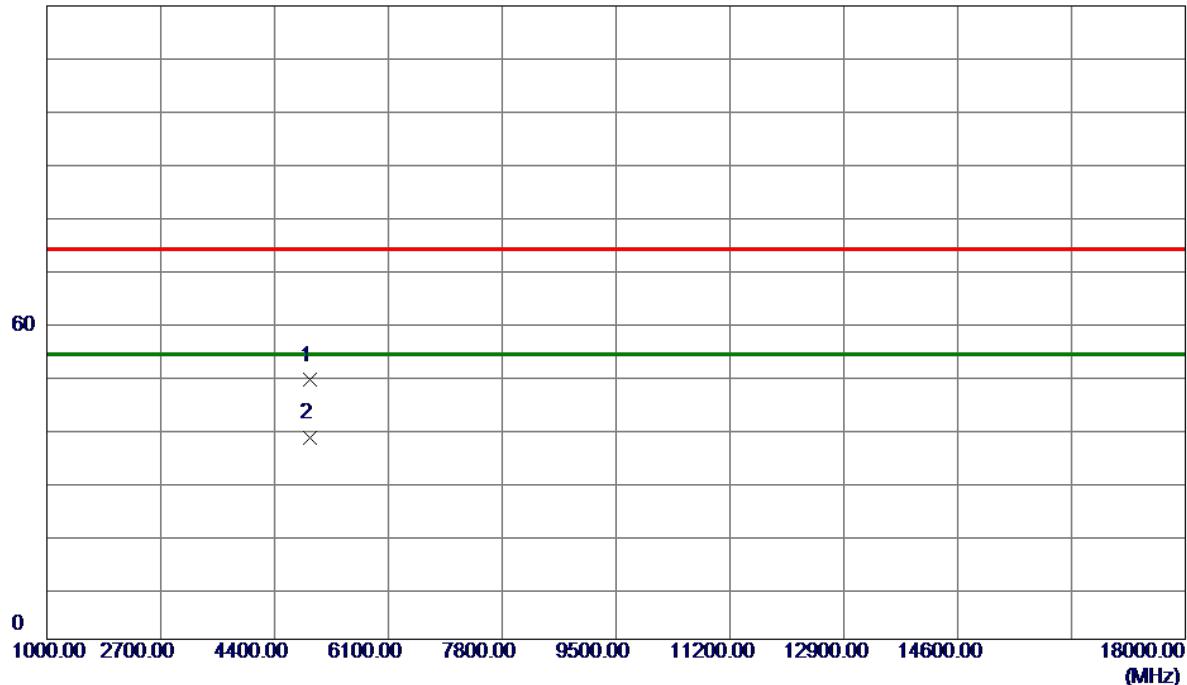
No.	Freq. (MHz)	Reading Level (dBuV/m)	Correct Factor	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	2388.2000	47.08	5.24	52.32	74.00	-21.68	Peak	
2	2388.2000	33.35	5.24	38.59	54.00	-15.41	AVG	
3	2464.6000	104.70	5.38	110.08	74.00	36.08	Peak	No Limit
4 *	2464.6000	95.61	5.38	100.99	54.00	46.99	AVG	No Limit
5	2483.8000	64.64	5.41	70.05	74.00	-3.95	Peak	
6	2483.8000	45.66	5.41	51.07	54.00	-2.93	AVG	

REMARKS:

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

Test Mode	N(HT20) Mode	Polarization	Vertical
Test Frequency	2462 MHz	Test Date	2025/4/29

120 dBuV/m



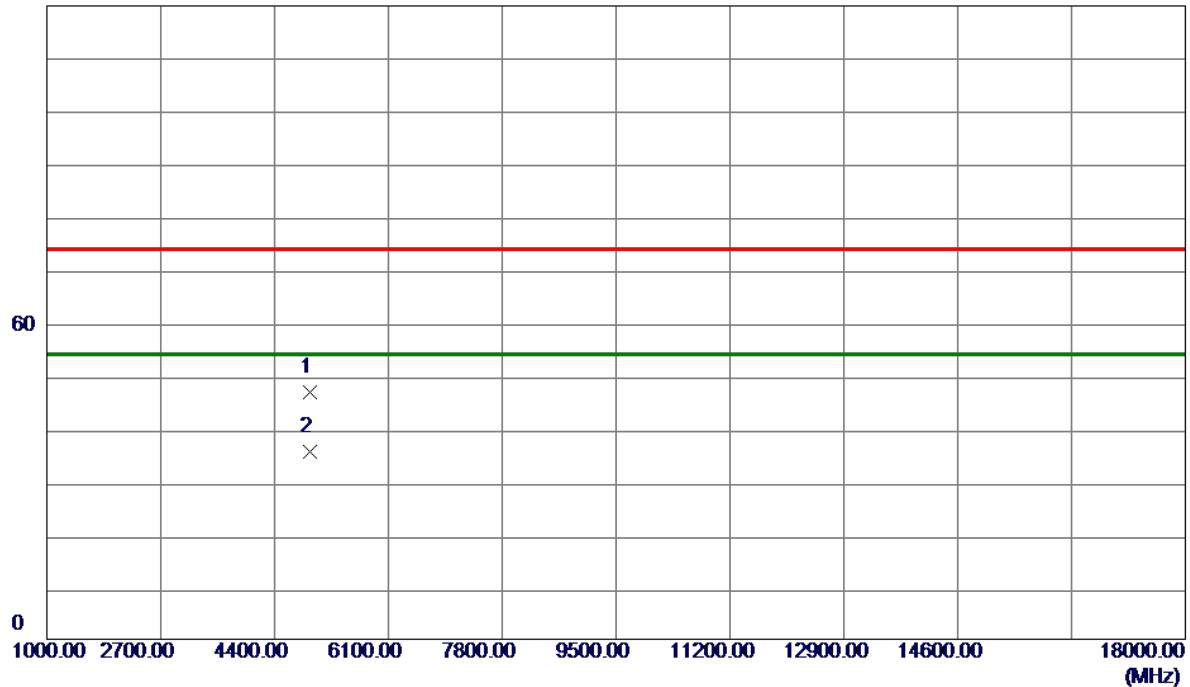
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4924.000	47.12	1.96	49.08	74.00	-24.92	Peak	
2 *	4924.000	36.28	1.96	38.24	54.00	-15.76	AVG	

REMARKS:

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

Test Mode	N(HT20) Mode	Polarization	Horizontal
Test Frequency	2462 MHz	Test Date	2025/4/29

120 dBuV/m



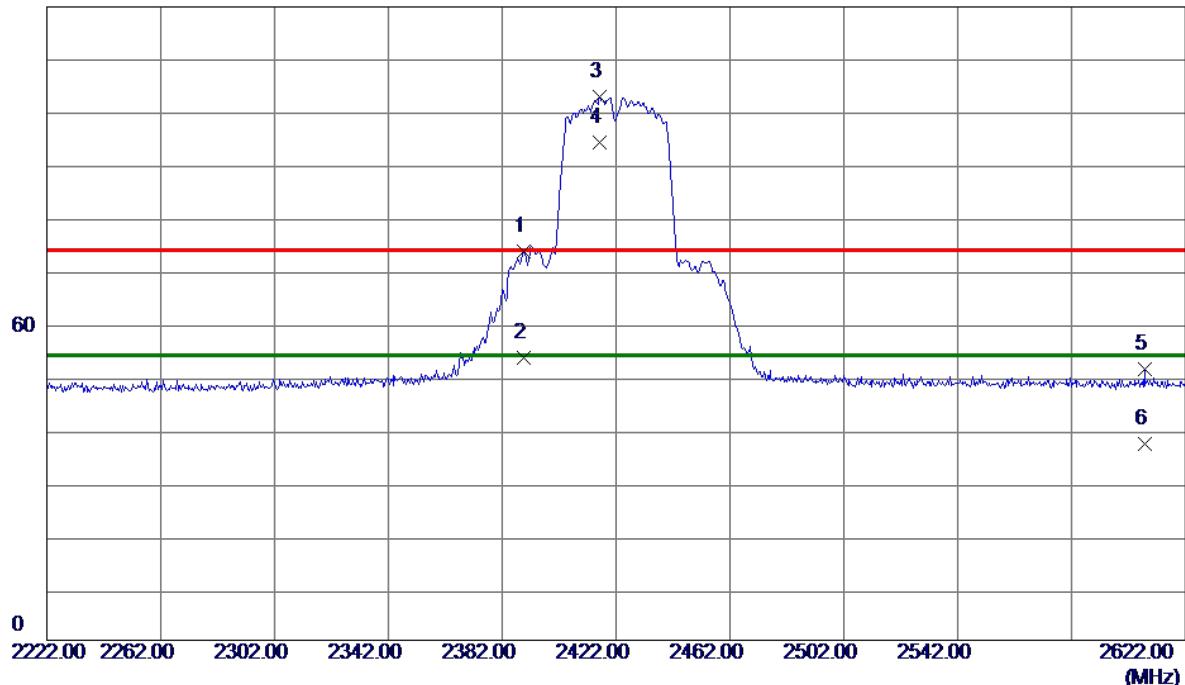
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4924.000	44.82	1.96	46.78	74.00	-27.22	Peak	
2 *	4924.000	33.47	1.96	35.43	54.00	-18.57	AVG	

REMARKS:

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

Test Mode	N(HT40) Mode	Polarization	Vertical
Test Frequency	2422 MHz	Test Date	2025/4/29

120 dBuV/m



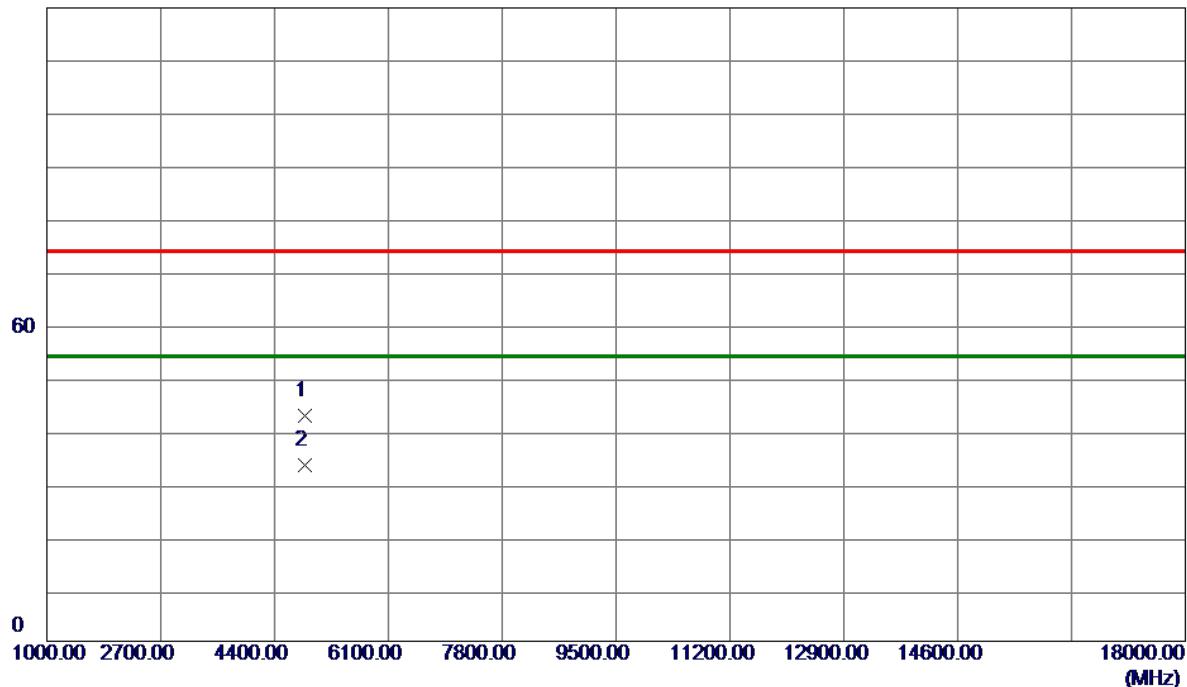
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.6000	68.45	5.24	73.69	74.00	-0.31	Peak	
2	2389.6000	48.21	5.24	53.45	54.00	-0.55	AVG	
3	2416.4000	97.75	5.29	103.04	74.00	29.04	Peak	No Limit
4 *	2416.4000	89.12	5.29	94.41	54.00	40.41	AVG	No Limit
5	2607.6000	45.47	5.89	51.36	74.00	-22.64	Peak	
6	2607.6000	31.27	5.89	37.16	54.00	-16.84	AVG	

REMARKS:

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

Test Mode	N(HT40) Mode	Polarization	Vertical
Test Frequency	2422 MHz	Test Date	2025/4/30

120 dBuV/m



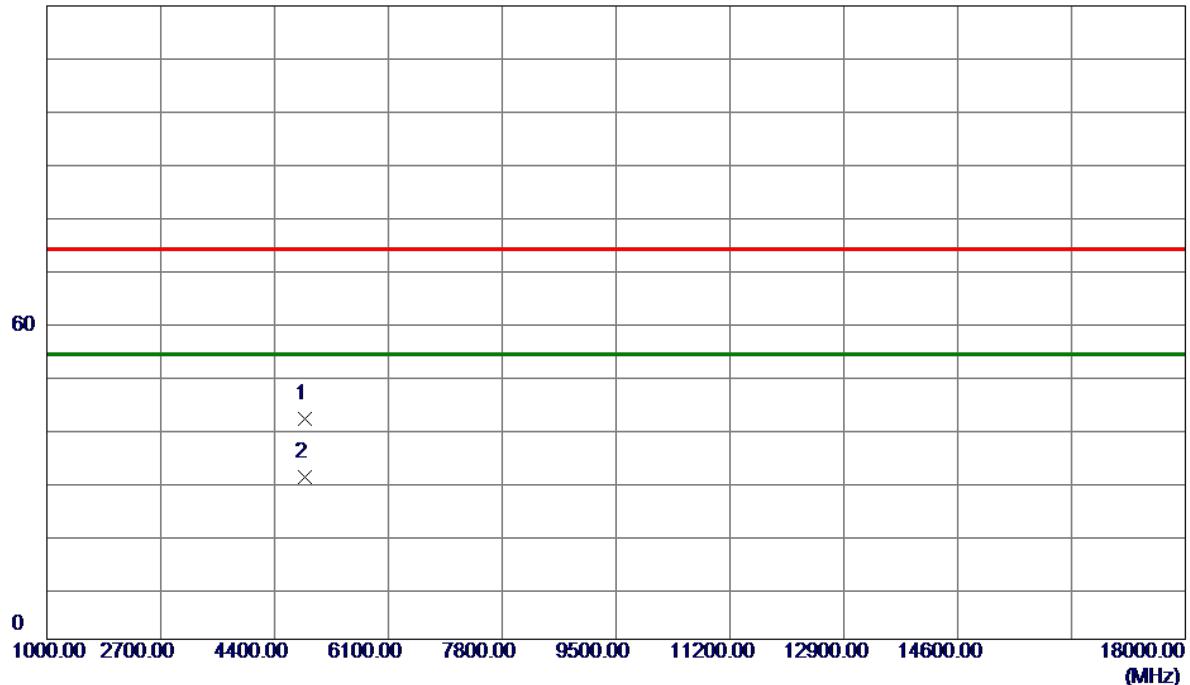
No.	Freq. (MHz)	Reading Level (dBuV/m)	Correct Factor	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	4844.000	40.87	1.82	42.69	74.00	-31.31	Peak	
2 *	4844.000	31.44	1.82	33.26	54.00	-20.74	AVG	

REMARKS:

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

Test Mode	N(HT40) Mode	Polarization	Horizontal
Test Frequency	2422 MHz	Test Date	2025/4/30

120 dBuV/m



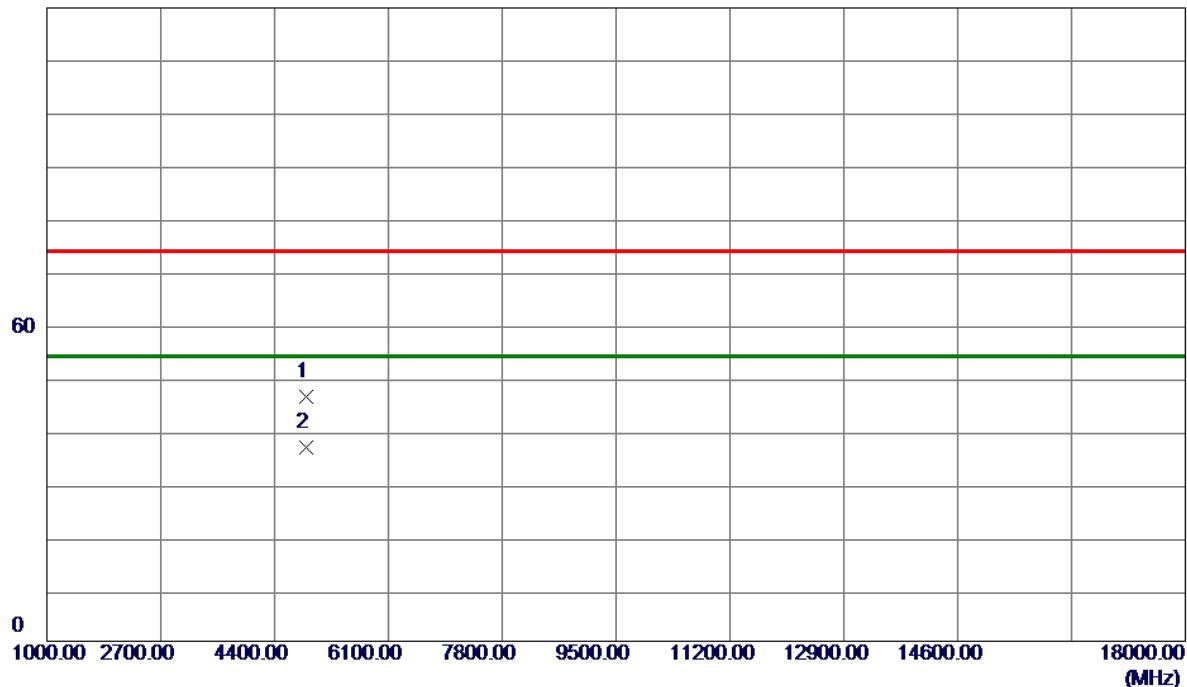
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4844.000	39.86	1.82	41.68	74.00	-32.32	Peak	
2 *	4844.000	28.93	1.82	30.75	54.00	-23.25	AVG	

REMARKS:

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

Test Mode	N(HT40) Mode	Polarization	Vertical
Test Frequency	2437 MHz	Test Date	2025/4/30

120 dBuV/m



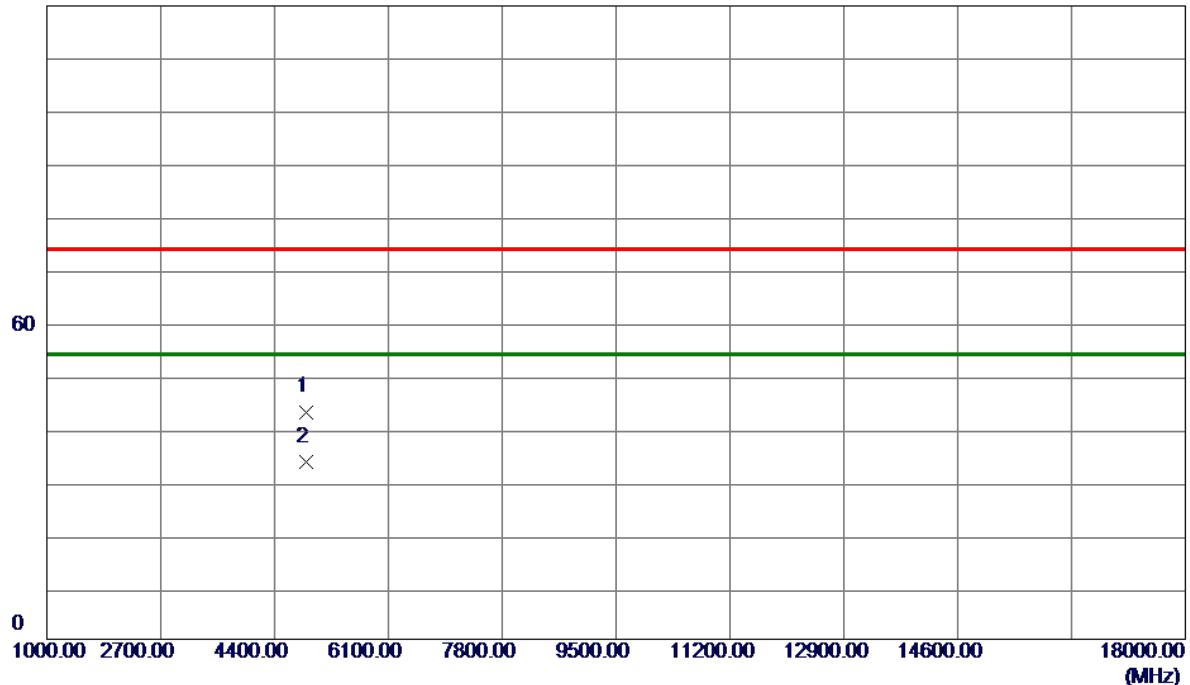
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4874.000	44.37	1.87	46.24	74.00	-27.76	Peak	
2 *	4874.000	34.94	1.87	36.81	54.00	-17.19	AVG	

REMARKS:

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

Test Mode	N(HT40) Mode	Polarization	Horizontal
Test Frequency	2437 MHz	Test Date	2025/4/30

120 dBuV/m



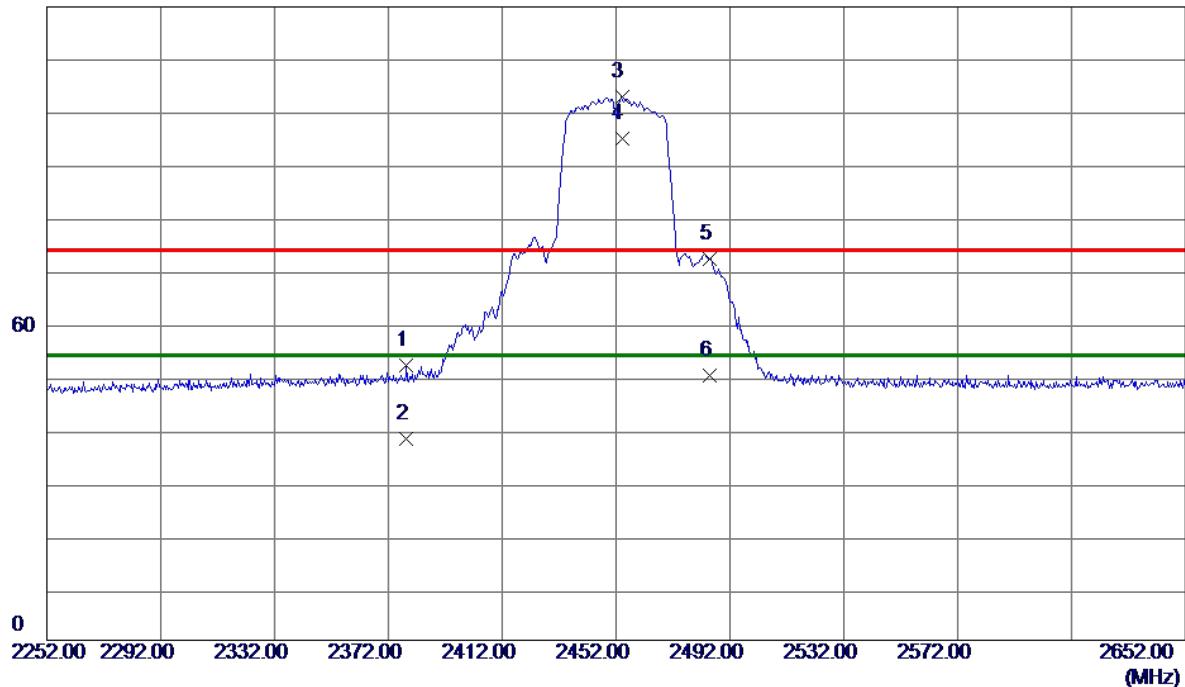
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4874.0000	41.21	1.87	43.08	74.00	-30.92	Peak	
2 *	4874.0000	31.65	1.87	33.52	54.00	-20.48	AVG	

REMARKS:

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

Test Mode	N(HT40) Mode	Polarization	Vertical
Test Frequency	2452 MHz	Test Date	2025/4/29

120 dBuV/m



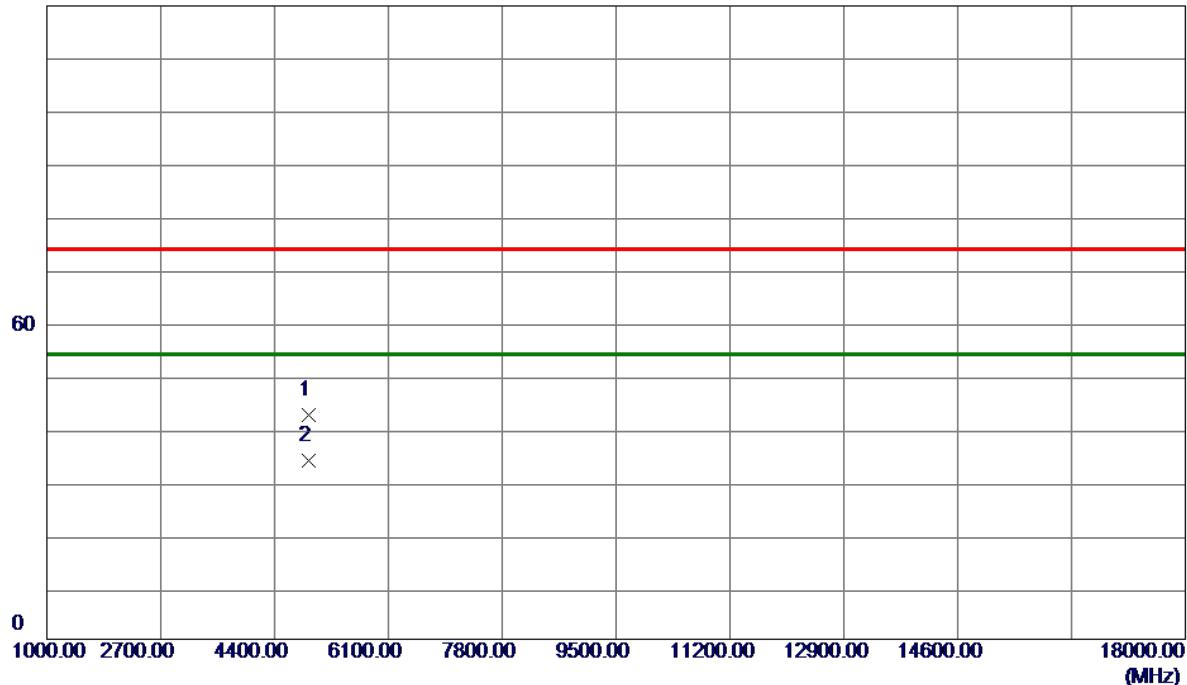
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2378.4000	46.78	5.22	52.00	74.00	-22.00	Peak	
2	2378.4000	32.85	5.22	38.07	54.00	-15.93	AVG	
3	2454.0000	97.61	5.36	102.97	74.00	28.97	Peak	No Limit
4 *	2454.0000	89.61	5.36	94.97	54.00	40.97	AVG	No Limit
5	2484.8000	66.80	5.41	72.21	74.00	-1.79	Peak	
6	2484.8000	44.76	5.41	50.17	54.00	-3.83	AVG	

REMARKS:

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

Test Mode	N(HT40) Mode	Polarization	Vertical
Test Frequency	2452 MHz	Test Date	2025/4/30

120 dBuV/m



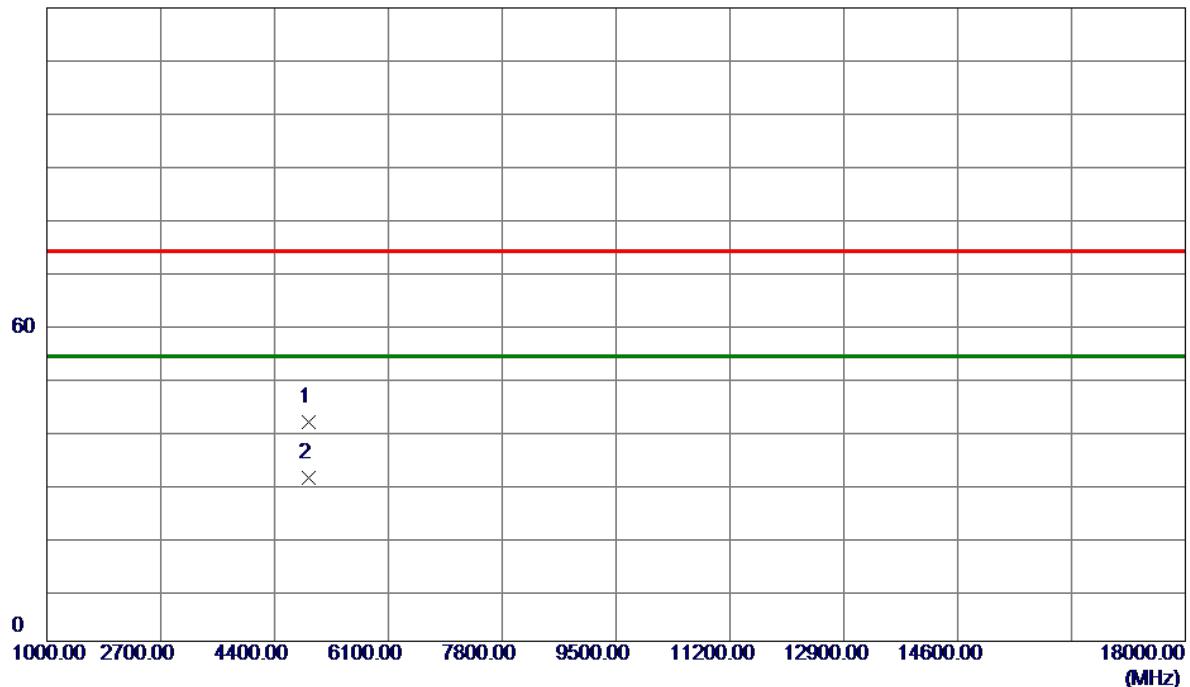
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4904.000	40.61	1.92	42.53	74.00	-31.47	Peak	
2 *	4904.000	31.81	1.92	33.73	54.00	-20.27	AVG	

REMARKS:

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

Test Mode	N(HT40) Mode	Polarization	Horizontal
Test Frequency	2452 MHz	Test Date	2025/4/30

120 dBuV/m

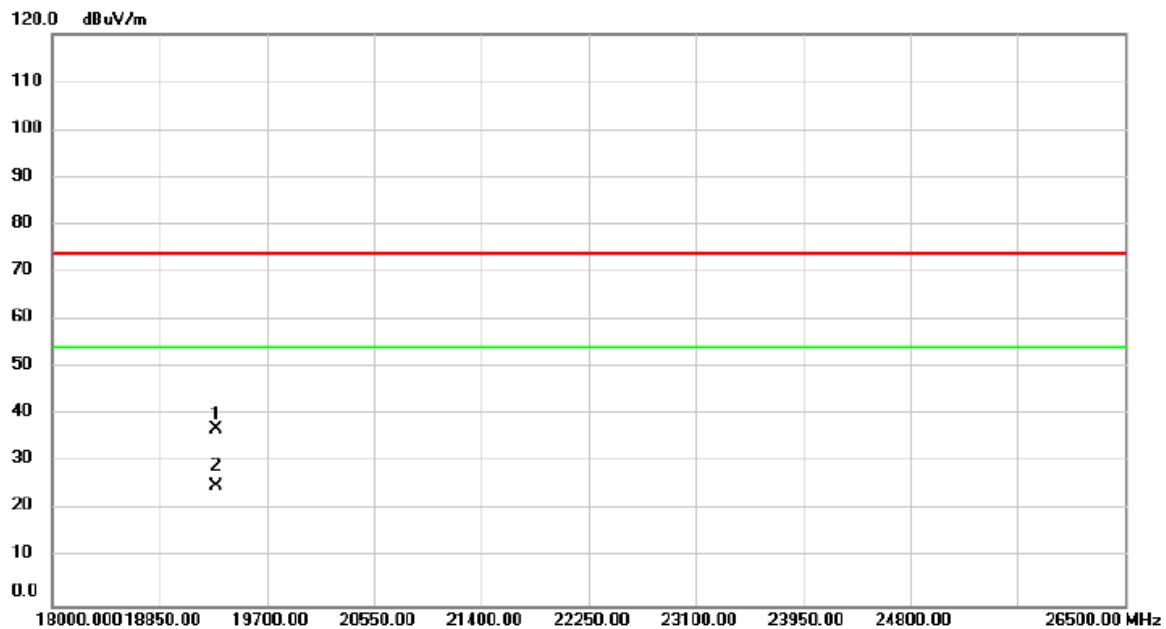


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1	4904.000	39.61	1.92	41.53	74.00	-32.47	Peak	
2 *	4904.000	29.07	1.92	30.99	54.00	-23.01	AVG	

REMARKS:

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

Test Mode	B Mode	Polarization	Vertical
Test Frequency	2437 MHz	Test Date	2025/4/30

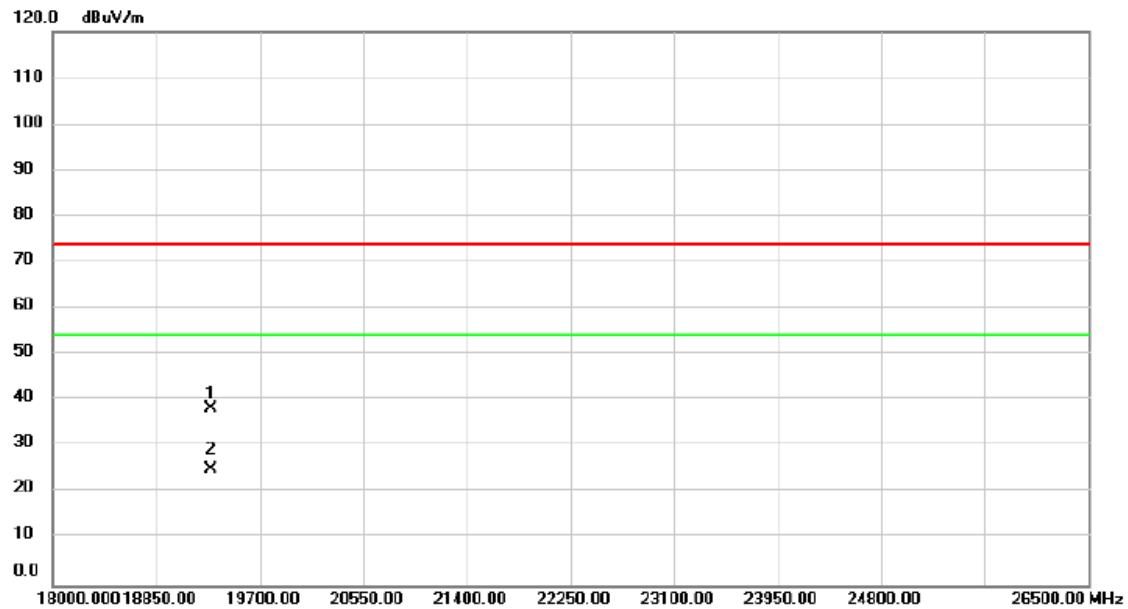


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		19296.00	47.09	-10.01	37.08	74.00	-36.92	peak	
2	*	19296.00	35.17	-10.01	25.16	54.00	-28.84	AVG	

REMARKS:

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

Test Mode	B Mode	Polarization	Horizontal
Test Frequency	2437 MHz	Test Date	2025/4/30



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		19296.00	48.32	-10.01	38.31	74.00	-35.69	peak
2	*	19296.00	35.04	-10.01	25.03	54.00	-28.97	AVG

REMARKS:

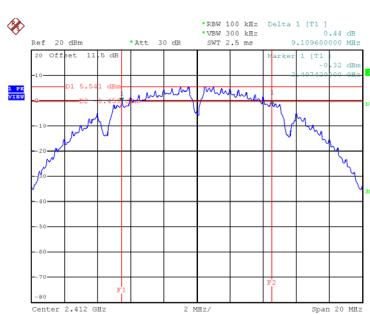
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - BANDWIDTH

Test Mode TX B Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	9.110	13.360	0.5	Complies
06	2437	9.110	13.360	0.5	Complies
11	2462	9.120	13.440	0.5	Complies

CH01

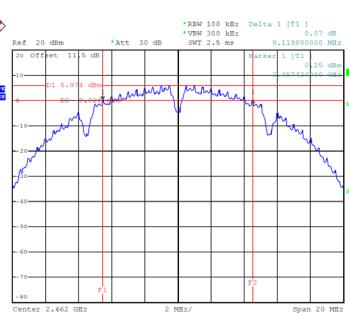


Date: 7.MAY.2025 14:08:32

CH06
6 dB Bandwidth

Date: 7.MAY.2025 14:10:37

CH11

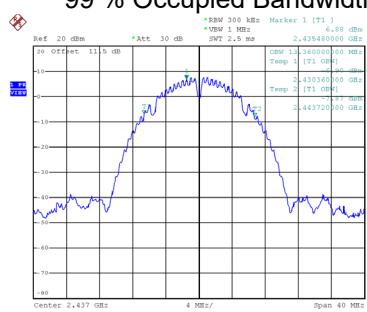


Date: 7.MAY.2025 14:15:24

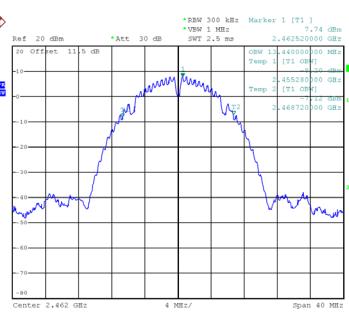
99 % Occupied Bandwidth



Date: 7.MAY.2025 14:08:41



Date: 7.MAY.2025 14:10:46

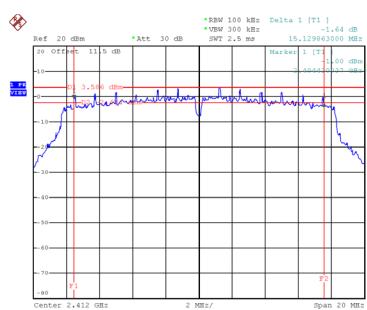
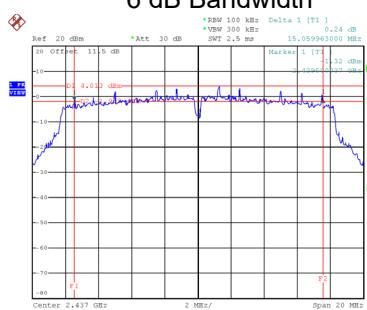


Date: 7.MAY.2025 14:15:33

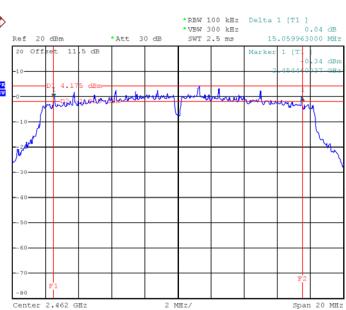
Test Mode TX G Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.130	16.800	0.5	Complies
06	2437	15.060	16.880	0.5	Complies
11	2462	15.060	16.880	0.5	Complies

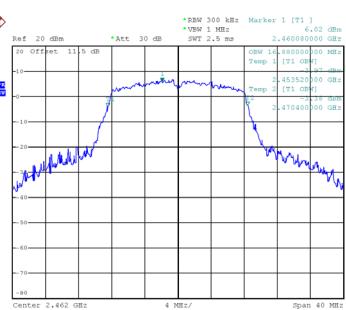
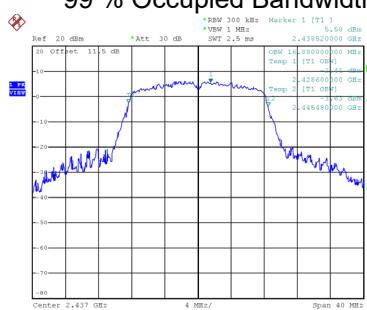
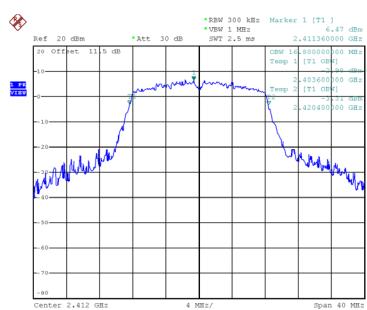
CH01

CH06
6 dB Bandwidth

CH11



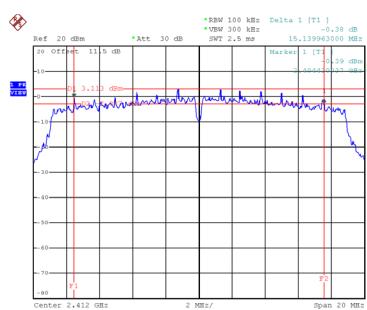
99 % Occupied Bandwidth



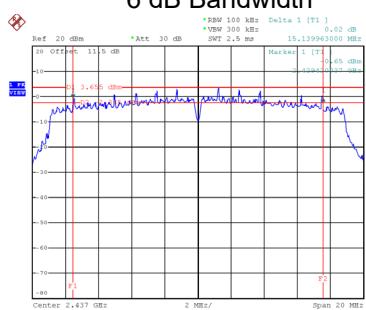
Test Mode TX N(HT20) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.140	17.760	0.5	Complies
06	2437	15.140	17.760	0.5	Complies
11	2462	15.100	17.760	0.5	Complies

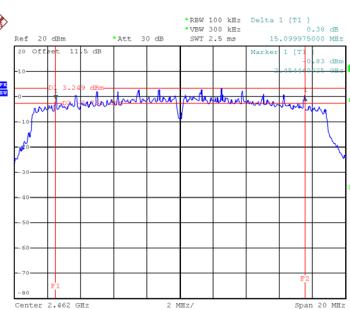
CH01



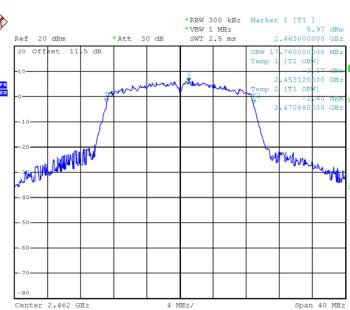
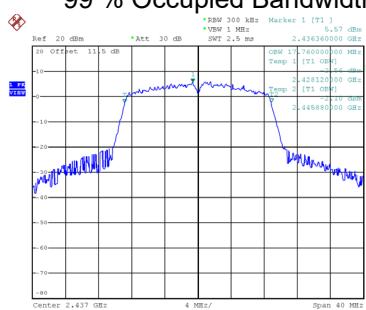
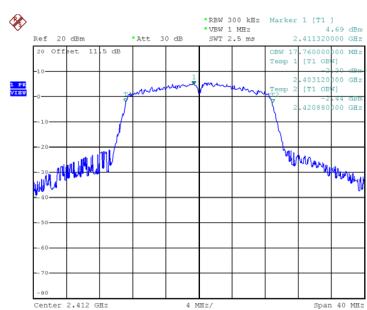
CH06
6 dB Bandwidth



CH11



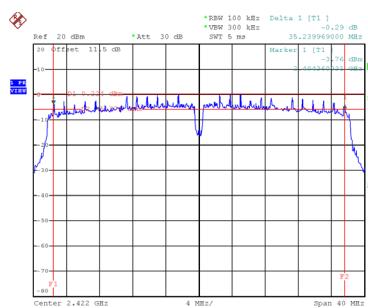
99 % Occupied Bandwidth



Test Mode TX N(HT40) Mode

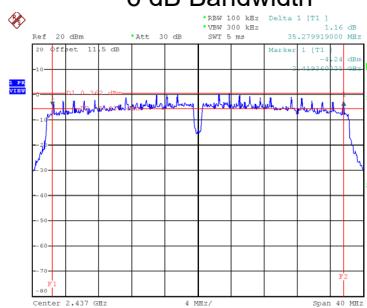
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	35.240	36.640	0.5	Complies
06	2437	35.280	36.640	0.5	Complies
09	2452	35.280	36.640	0.5	Complies

CH03



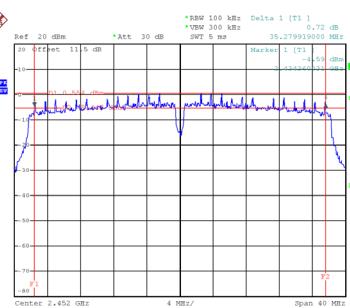
Date: 7.MAY.2025 14:53:21

CH06
6 dB Bandwidth



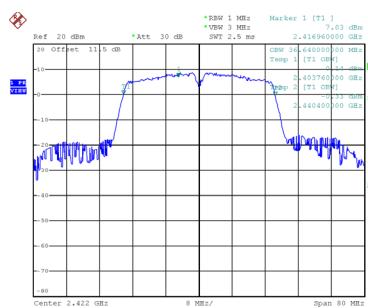
Date: 7.MAY.2025 14:56:59

CH09

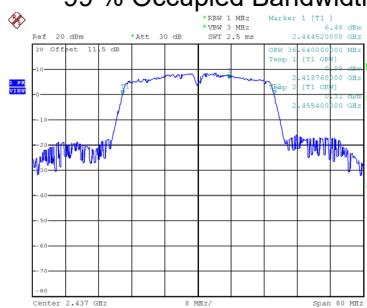


Date: 7.MAY.2025 15:02:54

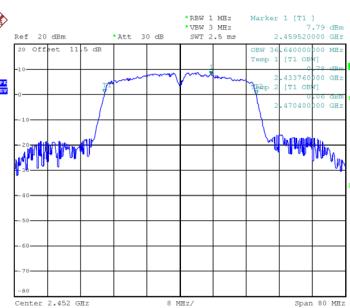
99 % Occupied Bandwidth



Date: 7.MAY.2025 14:53:30



Date: 7.MAY.2025 14:57:08



Date: 7.MAY.2025 15:03:03

APPENDIX E - MAXIMUM OUTPUT POWER

Test Mode	TX B Mode_Ant. 1
Test Date	2025/4/18

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.98	0.00	15.98	30.00	1.0000	Complies
06	2437	16.09	0.00	16.09	30.00	1.0000	Complies
11	2462	16.15	0.00	16.15	30.00	1.0000	Complies

Test Mode	TX B Mode_Ant. 2
Test Date	2025/4/18

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.71	0.00	15.71	30.00	1.0000	Complies
06	2437	15.73	0.00	15.73	30.00	1.0000	Complies
11	2462	15.65	0.00	15.65	30.00	1.0000	Complies

Test Mode	TX B Mode_Total
Test Date	2025/4/18

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.86	30.00	1.0000	Complies
06	2437	18.92	30.00	1.0000	Complies
11	2462	18.92	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 1
Test Date	2025/4/18

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.93	0.20	15.13	30.00	1.0000	Complies
06	2437	14.92	0.20	15.12	30.00	1.0000	Complies
11	2462	14.99	0.20	15.19	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 2
Test Date	2025/4/18

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.58	0.20	14.78	30.00	1.0000	Complies
06	2437	14.58	0.20	14.78	30.00	1.0000	Complies
11	2462	14.53	0.20	14.73	30.00	1.0000	Complies

Test Mode	TX G Mode_Total
Test Date	2025/4/18

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.96	30.00	1.0000	Complies
06	2437	17.96	30.00	1.0000	Complies
11	2462	17.97	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 1
Test Date	2025/4/18

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.03	0.21	14.24	30.00	1.0000	Complies
06	2437	14.25	0.21	14.46	30.00	1.0000	Complies
11	2462	14.39	0.21	14.60	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 2
Test Date	2025/4/18

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	13.98	0.21	14.19	30.00	1.0000	Complies
06	2437	13.95	0.21	14.16	30.00	1.0000	Complies
11	2462	13.96	0.21	14.17	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Total
Test Date	2025/4/18

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.23	30.00	1.0000	Complies
06	2437	17.32	30.00	1.0000	Complies
11	2462	17.40	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 1
Test Date	2025/4/18

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	11.82	0.41	12.23	30.00	1.0000	Complies
06	2437	14.19	0.41	14.60	30.00	1.0000	Complies
09	2452	12.04	0.41	12.45	30.00	1.0000	Complies

Test Mode	TX N(HT40) Mode_Ant. 2
Test Date	2025/4/18

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	11.78	0.41	12.19	30.00	1.0000	Complies
06	2437	13.78	0.41	14.19	30.00	1.0000	Complies
09	2452	11.67	0.41	12.08	30.00	1.0000	Complies

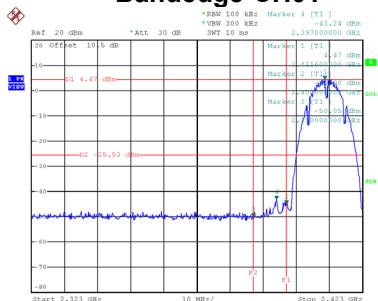
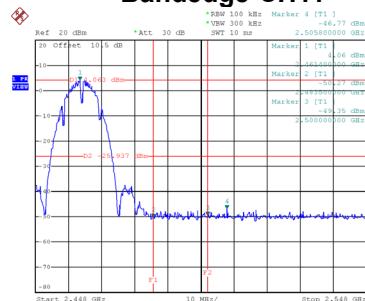
Test Mode	TX N(HT40) Mode_Total
Test Date	2025/4/18

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	15.22	30.00	1.0000	Complies
06	2437	17.41	30.00	1.0000	Complies
09	2452	15.28	30.00	1.0000	Complies

APPENDIX F - CONDUCTED SPURIOUS EMISSIONS

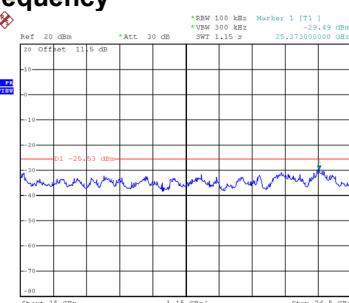
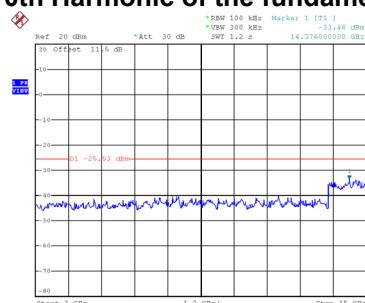
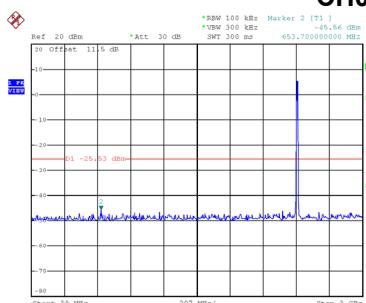
Test Mode

TX B Mode_Ant. 2

Bandedge-CH01**Bandedge-CH11**

Date: 7.MAY.2025 15:09:02

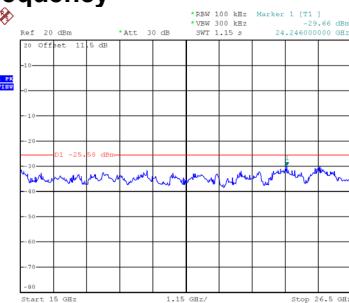
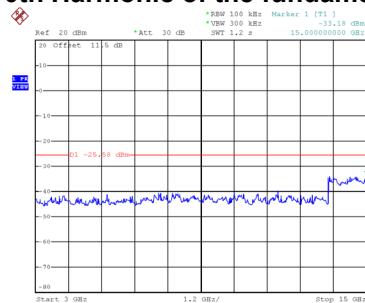
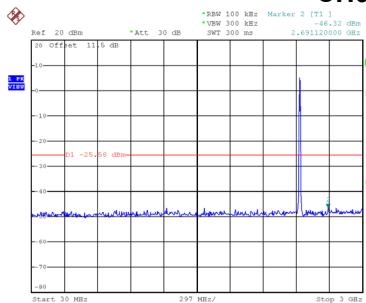
Date: 7.MAY.2025 15:15:32

CH01 – 10th Harmonic of the fundamental frequency

Date: 7.MAY.2025 15:09:17

Date: 7.MAY.2025 15:09:26

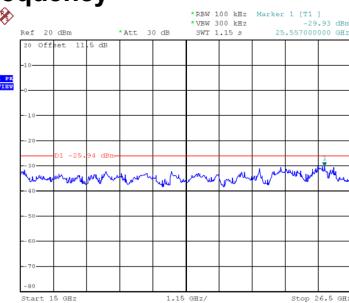
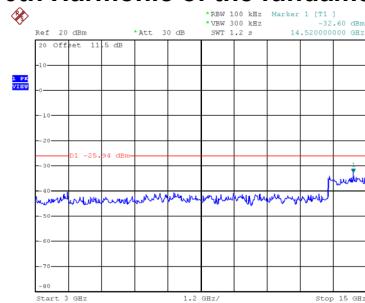
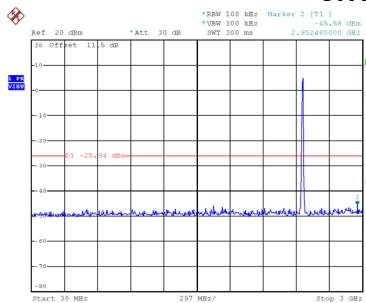
Date: 7.MAY.2025 15:09:35

CH06 – 10th Harmonic of the fundamental frequency

Date: 7.MAY.2025 15:12:02

Date: 7.MAY.2025 15:12:11

Date: 7.MAY.2025 15:12:20

CH11 – 10th Harmonic of the fundamental frequency

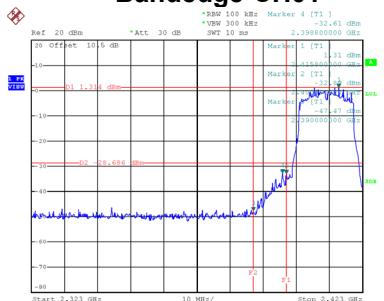
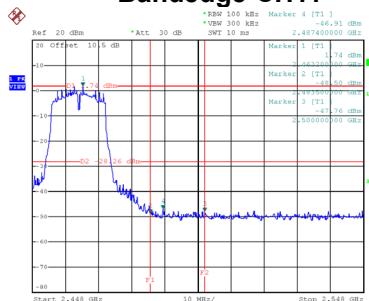
Date: 7.MAY.2025 15:15:47

Date: 7.MAY.2025 15:15:56

Date: 7.MAY.2025 15:16:05

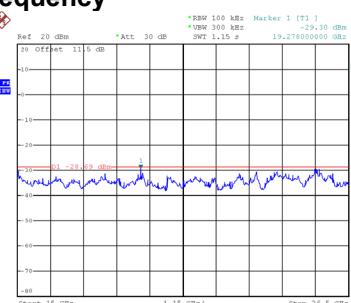
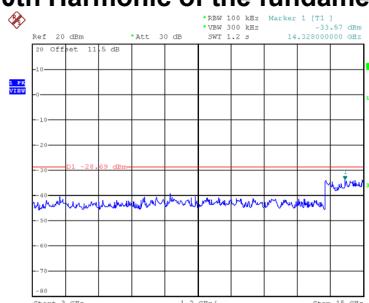
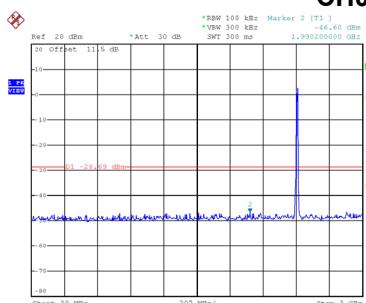
Test Mode

TX G Mode_Ant. 2

Bandedge-CH01**Bandedge-CH11**

Date: 7.MAY.2025 15:44:59

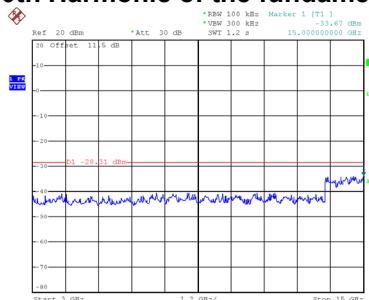
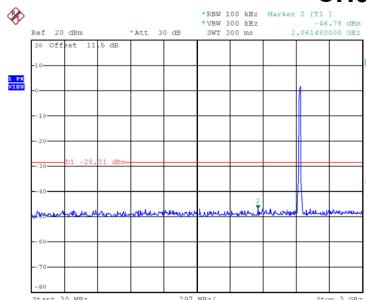
Date: 7.MAY.2025 15:50:25

CH01 – 10th Harmonic of the fundamental frequency

Date: 7.MAY.2025 15:45:14

Date: 7.MAY.2025 15:45:24

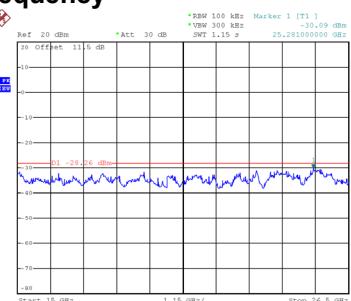
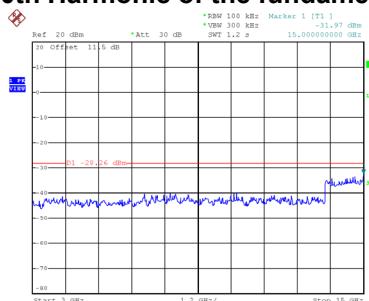
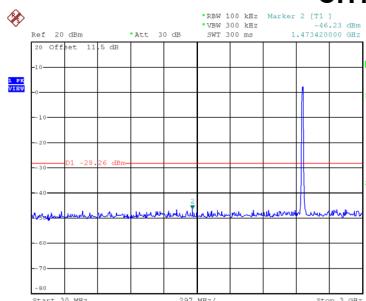
Date: 7.MAY.2025 15:45:33

CH06 – 10th Harmonic of the fundamental frequency

Date: 7.MAY.2025 15:48:12

Date: 7.MAY.2025 15:48:21

Date: 7.MAY.2025 15:48:30

CH11 – 10th Harmonic of the fundamental frequency

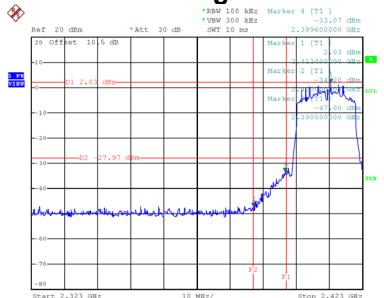
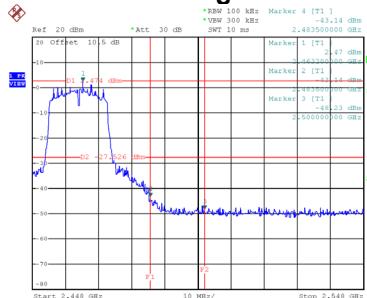
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Date: 7.MAY.2025 15:50:49

Date: 7.MAY.2025 15:50:58

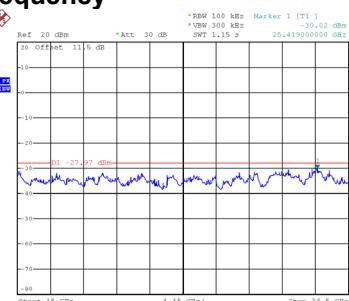
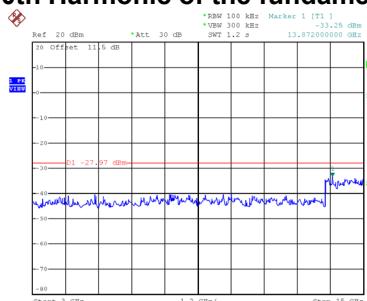
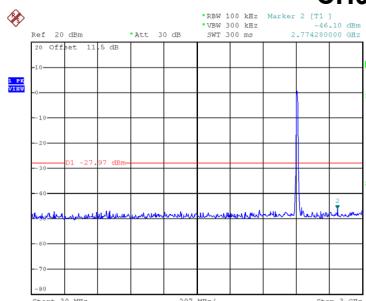
Test Mode

TX N(HT20) Mode_Ant. 1

Bandedge-CH01**Bandedge-CH11**

Date: 7.MAY.2025 14:35:11

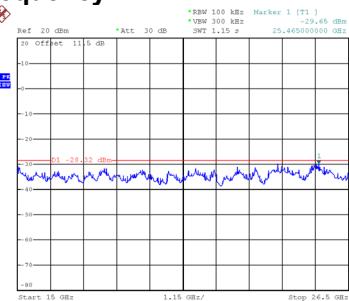
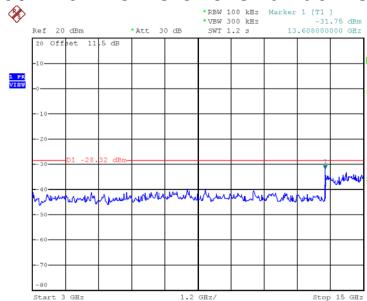
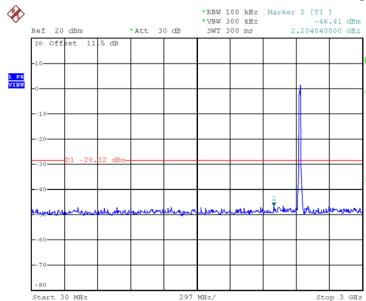
Date: 7.MAY.2025 14:41:59

CH01 – 10th Harmonic of the fundamental frequency

Date: 7.MAY.2025 14:35:26

Date: 7.MAY.2025 14:35:36

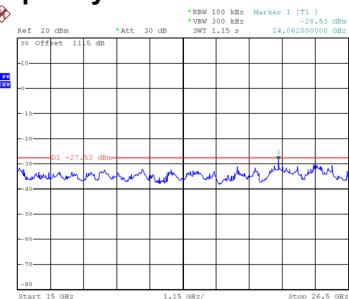
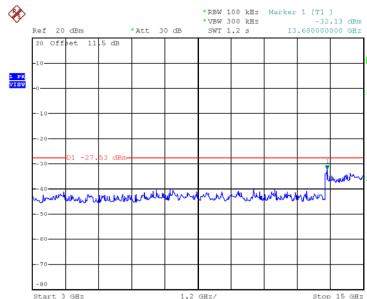
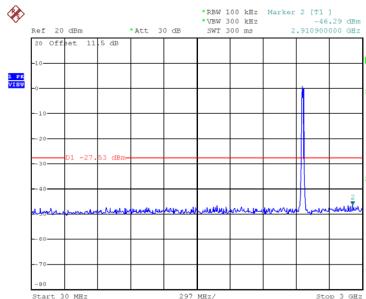
Date: 7.MAY.2025 14:35:45

CH06 – 10th Harmonic of the fundamental frequency

Date: 7.MAY.2025 14:40:04

Date: 7.MAY.2025 14:40:13

Date: 7.MAY.2025 14:40:22

CH11 – 10th Harmonic of the fundamental frequency

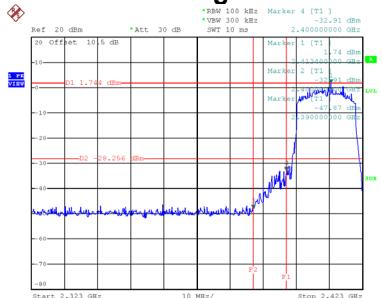
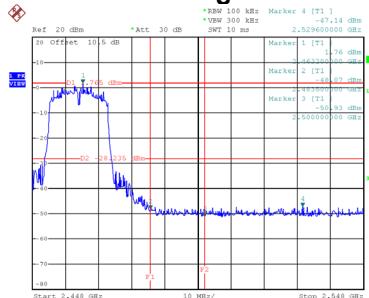
Date: 7.MAY.2025 14:42:14

Date: 7.MAY.2025 14:42:23

Date: 7.MAY.2025 14:42:32

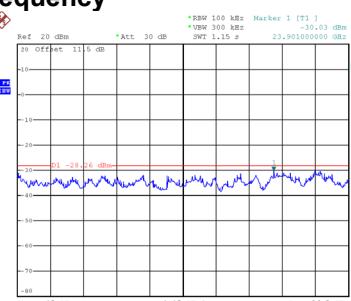
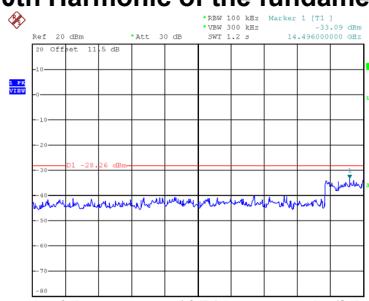
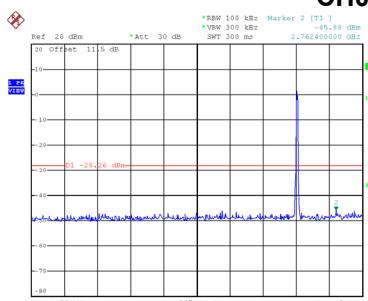
Test Mode

TX N(HT20) Mode_Ant. 2

Bandedge-CH01

Bandedge-CH11


Date: 7.MAY.2025 15:50:59

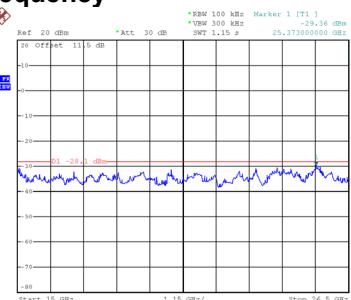
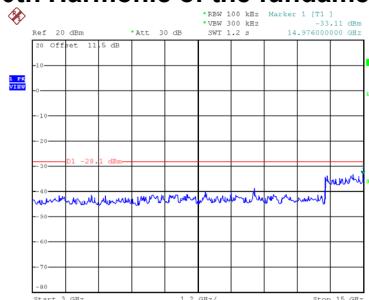
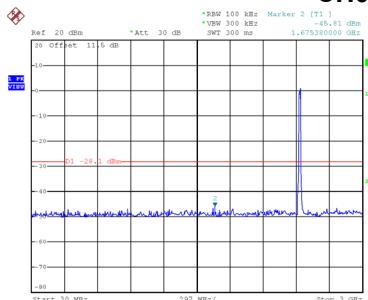
Date: 7.MAY.2025 16:12:30

CH01 – 10th Harmonic of the fundamental frequency


Date: 7.MAY.2025 15:59:14

Date: 7.MAY.2025 15:59:23

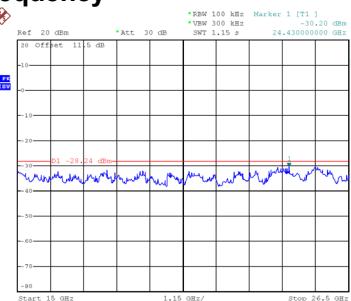
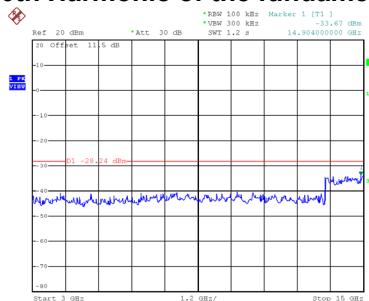
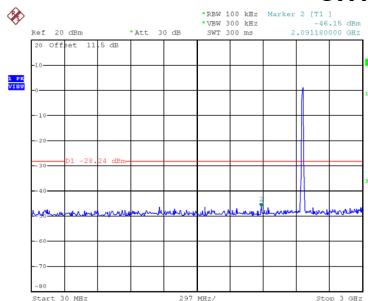
Date: 7.MAY.2025 15:59:32

CH06 – 10th Harmonic of the fundamental frequency


Date: 7.MAY.2025 16:07:09

Date: 7.MAY.2025 16:07:18

Date: 7.MAY.2025 16:07:27

CH11 – 10th Harmonic of the fundamental frequency


Date: 7.MAY.2025 16:12:46

Date: 7.MAY.2025 16:12:55

Date: 7.MAY.2025 16:13:04