FCC Radio Test Report

FCC ID: 2BH7FC206

Report No.	:	BTL-FCCP-1-2411G036
Equipment	:	Indoor/Outdoor Pan/Tilt Security Wi-Fi Camera
Model Name	:	Tapo C216, Tapo C206, TC30, TC31, Tapo C207, Tapo C217, TCW30
Brand Name	:	tp-link
Applicant	:	TP-Link Systems Inc.
Address	:	10 Mauchly, Irvine, CA 92618
Manufacturer	:	TP-Link Systems Inc.
Address	:	10 Mauchly, Irvine, CA 92618
Radio Function	:	WLAN 2.4GHz
FCC Rule Part(s)	:	FCC CFR Title 47, Part 15, Subpart C (15.247)
Measurement Procedure(s)	:	ANSI C63.10-2013
Date of Receipt	:	2025/2/5
Date of Test	:	2025/2/11 ~ 2025/2/19
Issued Date	:	2025/4/3

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

Prepared by : Poken Huang

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Approved by : Peter Chen

Peter Chen, Manager

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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.

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

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

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

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

Limitation

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

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

Table of Contents Page

Table of Contents Page

Table of Contents Page

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2411G036	R00	Original Report.	2025/3/27	Invalid
BTL-FCCP-1-2411G036	R01	Modified the comments of TCB.	2025/4/3	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 APPENDIX D	PASS	------
15.247(a)(2)	Bandwidth	APPENDIX E	PASS	------
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS	------
15.247(d)	Conducted Spurious Emissions	APPENDIX G	PASS	------
15.247(e)	Power Spectral Density	APPENDIX H	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 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. 64, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan
(FCC DN: TW0659)
☒ C01 ☒ CB02 ☒ TR01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y ± 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 %**. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

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)
CB20 (3m)	0.03~0.2	4.01
	0.02~1	4.64
	1 ~ 6	5.91
	6 ~ 18	6.24
	18 ~ 26	3.93
	26 ~ 40	4.06

C. Other Measurement:

Test Item	U
Occupied Bandwidth	0.83 %
Output power	0.4008 dB
Conducted Spurious emissions	1.8274 dB
Conducted Band edges	1.8353 dB
Dwell time	0.8830 dB
Channel separation	0.8830 dB
Channel numbers	0.9198 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 110V/60Hz	Benny Cao
Radiated Emissions-30MHz to 1000MHz	25°C	65%	AC 110V/60Hz	Ken Lv
Radiated Emissions-Above 1000MHz	25°C	65%	AC 110V/60Hz	Ken Lv
Bandwidth	25°C	45%	AC 110V/60Hz	Cheng Tsai
Maximum Output Power	25°C	60%	AC 110V/60Hz	Jeremy Li
Conducted Spurious Emissions	25°C	45%	AC 110V/60Hz	Cheng Tsai
Power Spectral Density	25°C	45%	AC 110V/60Hz	Cheng Tsai

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Indoor/Outdoor Pan/Tilt Security Wi-Fi Camera
Brand Name	tp-link
Model Name	Tapo C216, Tapo C206, TC30, TC31, Tapo C207, Tapo C217, TCW30
Model Difference(s)	Between model Tapo C216 and Tapo C206: The image sensor chips are different. (Only the resolution is different, PIN to PIN replacement) Between model TC30 and Tapo C206: Only differ in model name. Between model Tapo C216 and TC31: Only differ in model name. Between model Tapo C207 and Tapo C206: Only differ in model name and shell color. Between model Tapo C216 and Tapo C217: Only differ in model name and shell color. Between model TCW30 and Tapo C206: Only differ in model name.
Software Version	1.X
Hardware Version	1.0
Power Source	DC voltage supplied from AC adapter. Model: AD-D0930500100US01
Power Rating	I/P: 100-240V~ 50/60Hz Max 0.2A O/P: 5V ⎓ 1A
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 144.4 Mbps
Maximum Output Power	IEEE 802.11g: 22.62 dBm (0.1828 W)
Test Model	Tapo C216

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)							
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	P/N	Antenna Type	Connector	Gain (dBi)
1	TP-Link Systems Inc.	Tapo C216+ANT	IFA	N/A	0.5
2	TP-Link Systems Inc.	6035500234	PIFA	N/A	0.5

Note:

1) This EUT supports CDD, and all antennas have the same gain, Directional gain = G_{ANT}+Array Gain.
For power measurements, Array Gain=0dB (N_{ANT}≤4), so the Directional gain=0.5.
For power spectral density measurements, N_{ANT}=2, N_{SS} = 1.
So the Directional gain=G_{ANT}+Array Gain=G_{ANT}+10log(N_{ANT}/ N_{SS})dBi=0.5+10log(2/1)dBi=3.51.
2) The antenna gain is provided by the manufacturer.

4. 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)

2.2 DESCRIPTION OF TEST MODES

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

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 G Mode Channel 11 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 (Horizontal) is recorded.
(5) For radiated emission test, model Tapo C216 and Tapo C206 are tested, the worst case is Tapo C216 and recorded.

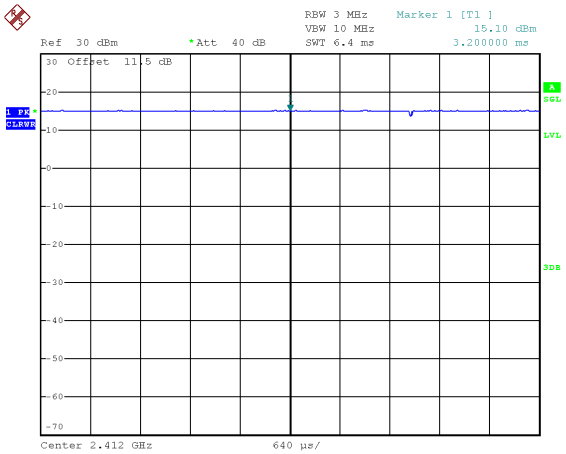
2.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	altobeamWifi_ETF_V2.10.103		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	12	12	12.3
IEEE 802.11g	13.3	13.9	14.9
IEEE 802.11n(HT20)	11.8	13.5	12.1

2.4 DUTY CYCLE

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

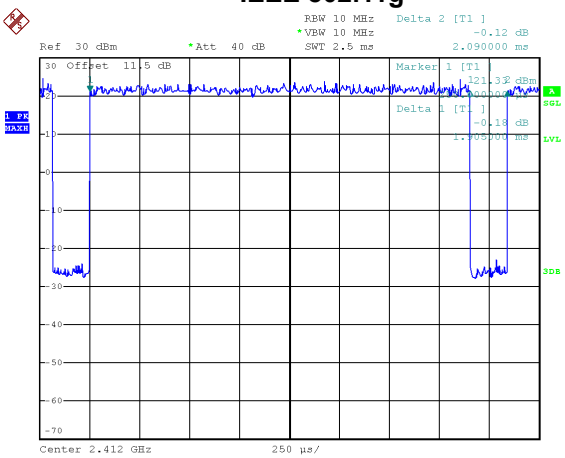
IEEE 802.11b



Date: 18.FEB.2025 17:10:20

Duty cycle = 0.000 ms / 0.000 ms = 0.00%
Duty Factor = 10 log(1/Duty cycle) = 0.00

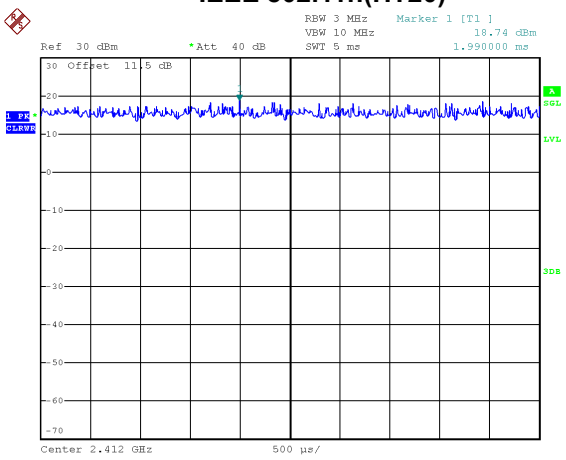
IEEE 802.11g



Date: 18.FEB.2025 17:19:50

Duty cycle = 1.905 ms / 2.090 ms = 91.15%
Duty Factor = 10 log(1/Duty cycle) = 0.40

IEEE 802.11n(HT20)



Date: 18.FEB.2025 17:40:32

Duty cycle = 0.000 ms / 0.000 ms = 0.00%
Duty Factor = 10 log(1/Duty cycle) = 0.00

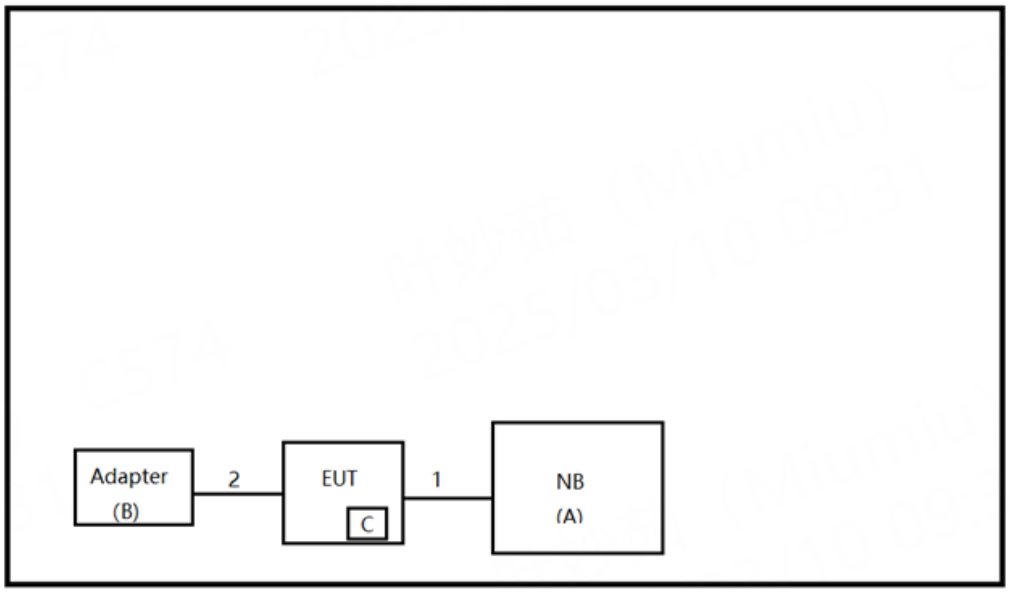
NOTE:
For IEEE 802.11b:
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz.

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 1 kHz.

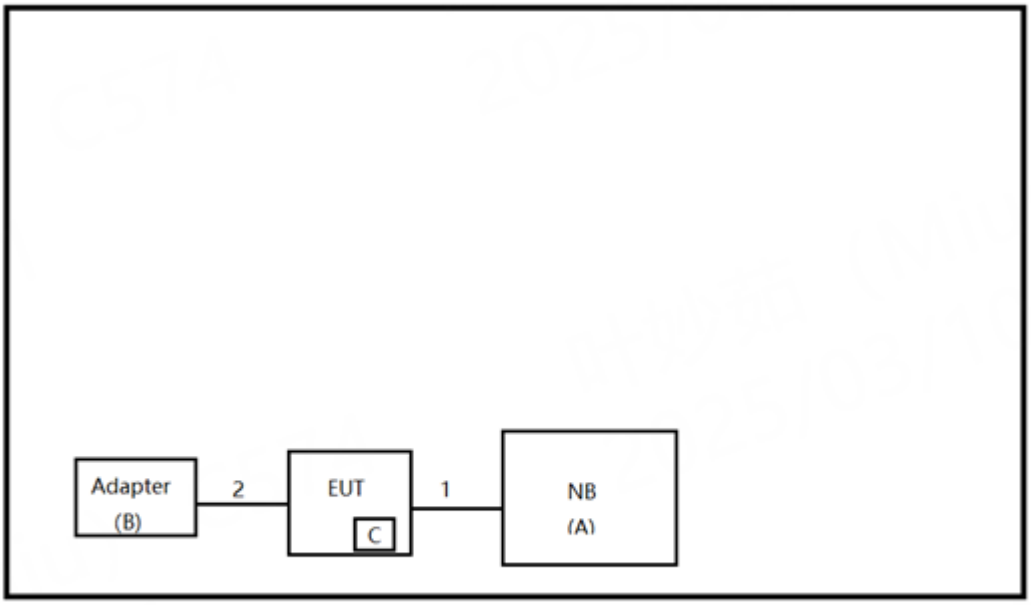
For IEEE 802.11n(HT20):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz.

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

AC Power Line Conducted Emissions



Radiated Emissions



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Notebook	Lenovo	Thinkpad L14 Gen5	PW0EDPVF	Furnished by test lab
B	Adapter	AMC	AD-0930500100US01	N/A	Supplied by test requester
C	SD Card	SanDisk	UHS-I	N/A	Furnished by test lab

Item	Cable Type	Shielded	Ferrite Core	Length	Remarks
1	USB Cable	YES	NO	0.5m	Furnished by test lab
2	Type-C Cable	NO	NO	2m	Supplied by test requester

3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

Frequency of Emission (MHz)	Limit (dBμV)	
	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 (dBuV)		Correct Factor (dB)		Measurement Value (dBuV)
38.22	+	3.45	=	41.67

Measurement Value (dBuV)		Limit Value (dBuV)		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.

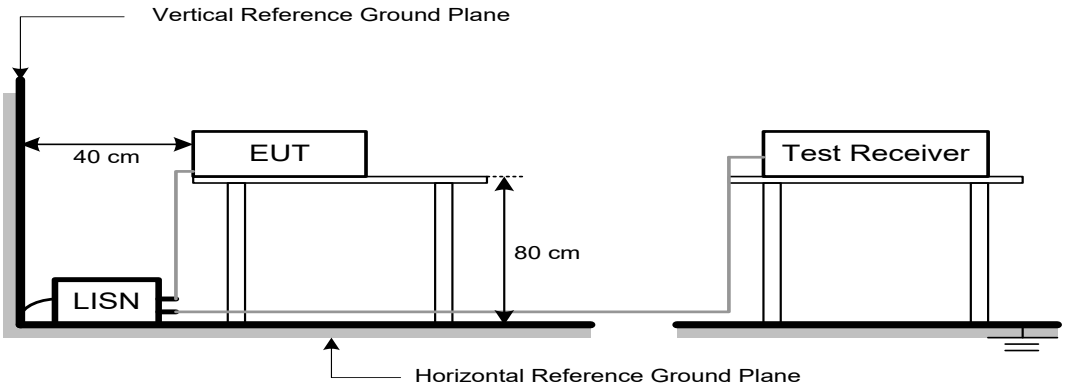
The following table is the setting of the receiver:

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 (dBµV/m)		Harmonic at 1m (dBµV/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 (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

(5)

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

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

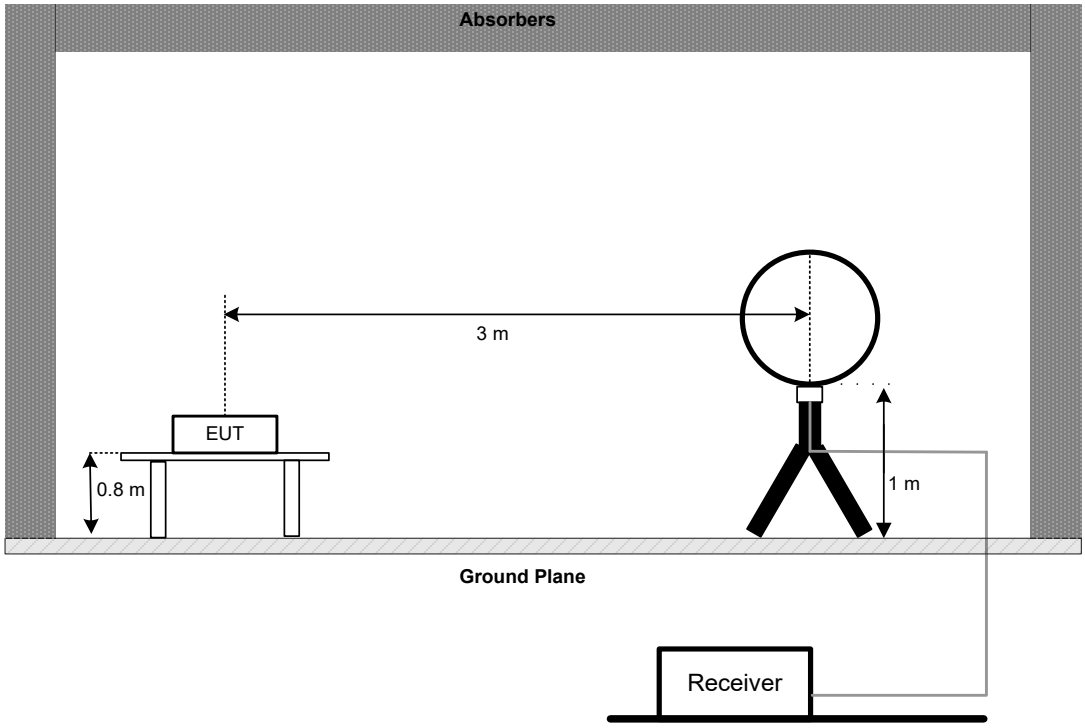
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

4.3 DEVIATION FROM TEST STANDARD

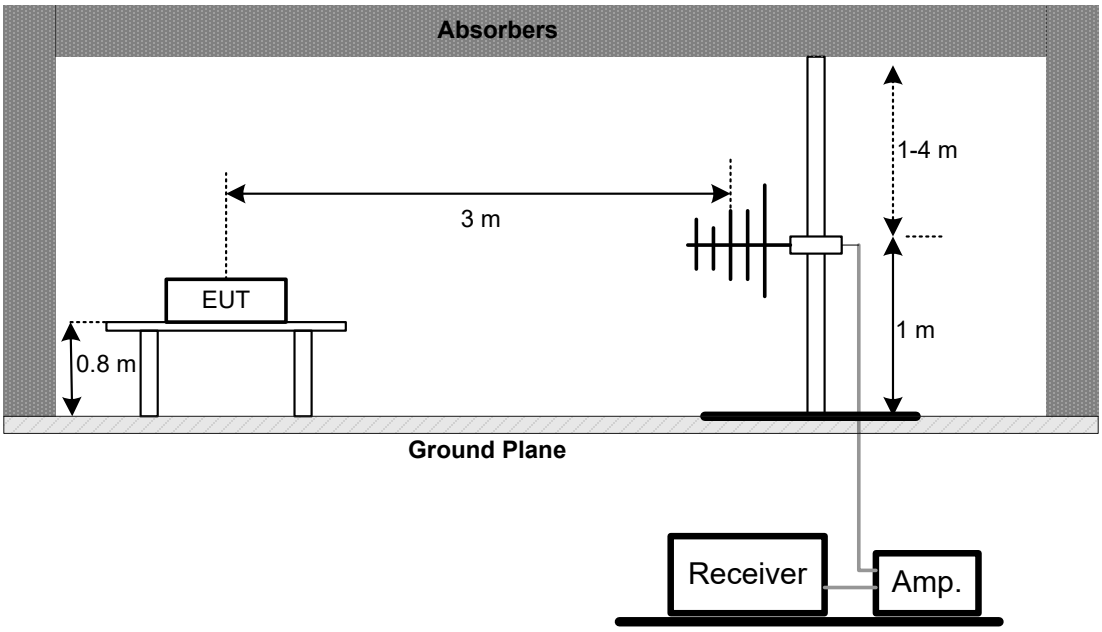
No deviation.

4.4 TEST SETUP

9 kHz to 30 MHz

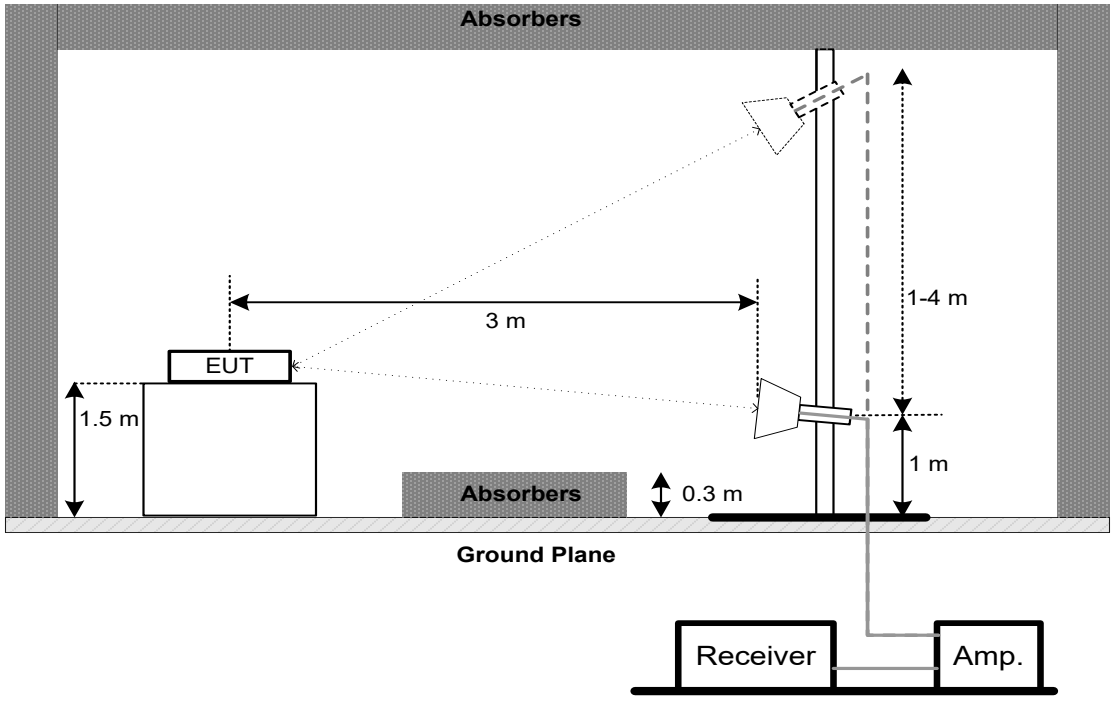


30 MHz to 1 GHz

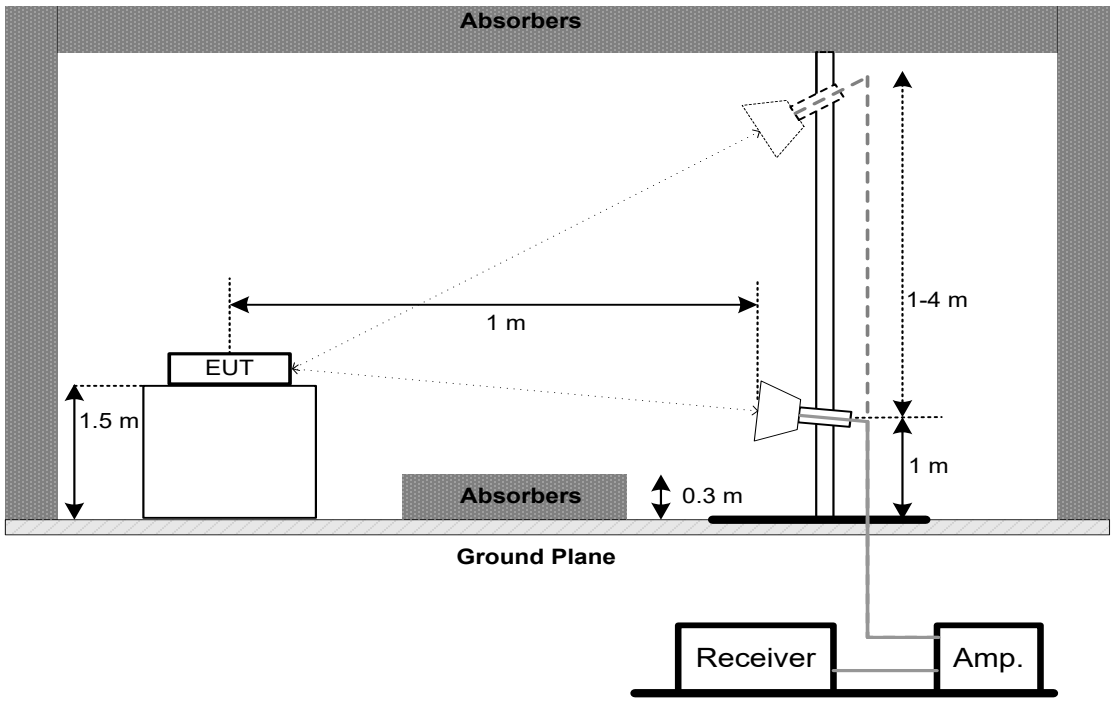


Above 1 GHz

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

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

For 6 dB Bandwidth:

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

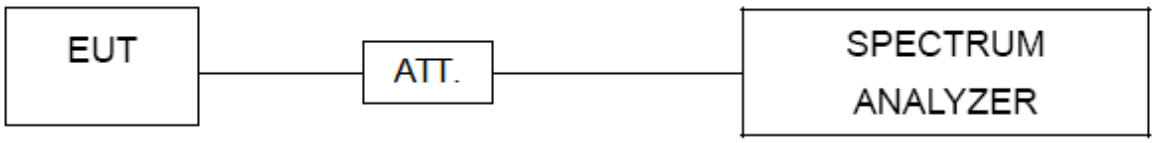
For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span Frequency	Between 1.5 times and 5.0 times the OBW
RBW	300 kHz
VBW	1 MHz
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

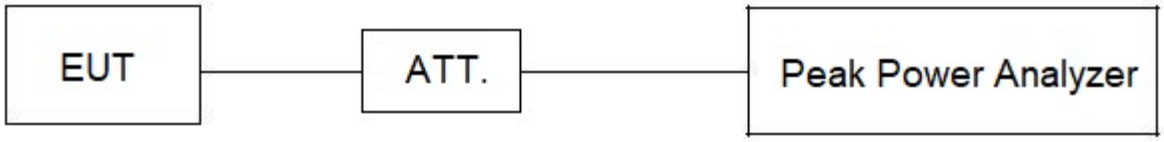
6.2 TEST PROCEDURE

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 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

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

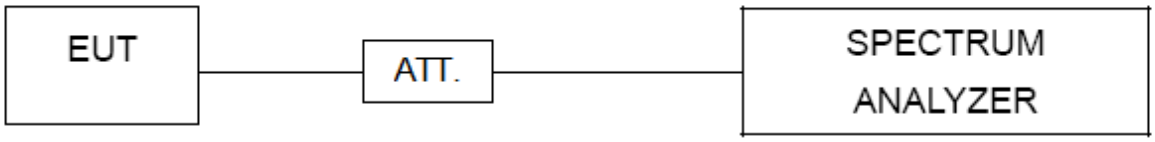
a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
b. The following table is the setting of the spectrum analyzer:

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

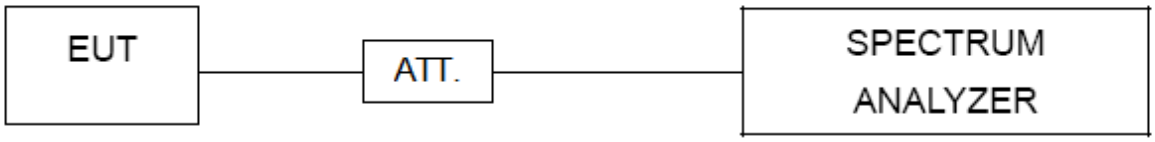
a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
b. The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	25 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-BM-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	EMC001330-20201222	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-NM-NM-8000	200348	2024/12/9	2025/12/8
6	Test Cable	EMCI	EMC-CFD-400-NM-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	Keysight Singnal Studio for DFS Radar Profiles	Keysight	2.0.0.0	N/A	N/A	N/A
4	InServiceMonitor Utility	BTL	11	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	Keysight Singnal Studio for DFS Radar Profiles	Keysight	2.0.0.0	N/A	N/A	N/A
4	InServiceMonitor Utility	BTL	11	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

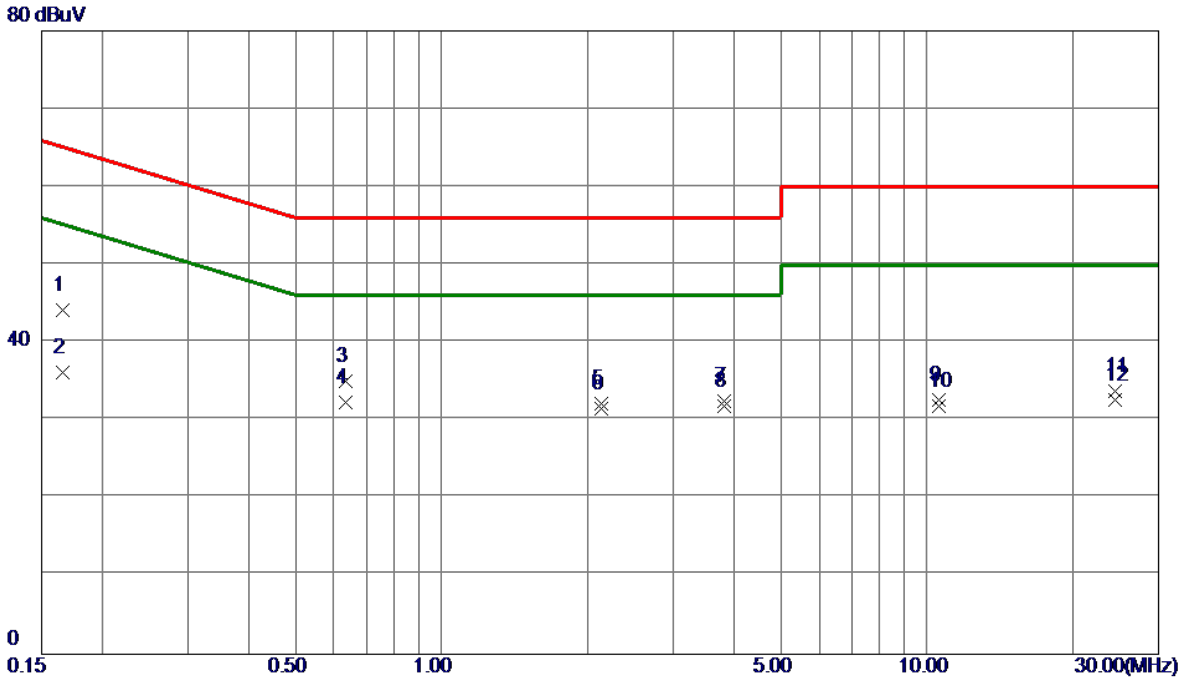
Please refer to document Appendix No.: TP-2411G036-1 (APPENDIX-TEST PHOTOS).

11. EUT PHOTOS

Please refer to document Appendix No.: EP-2411G036-1 (APPENDIX-EUT PHOTOS).

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

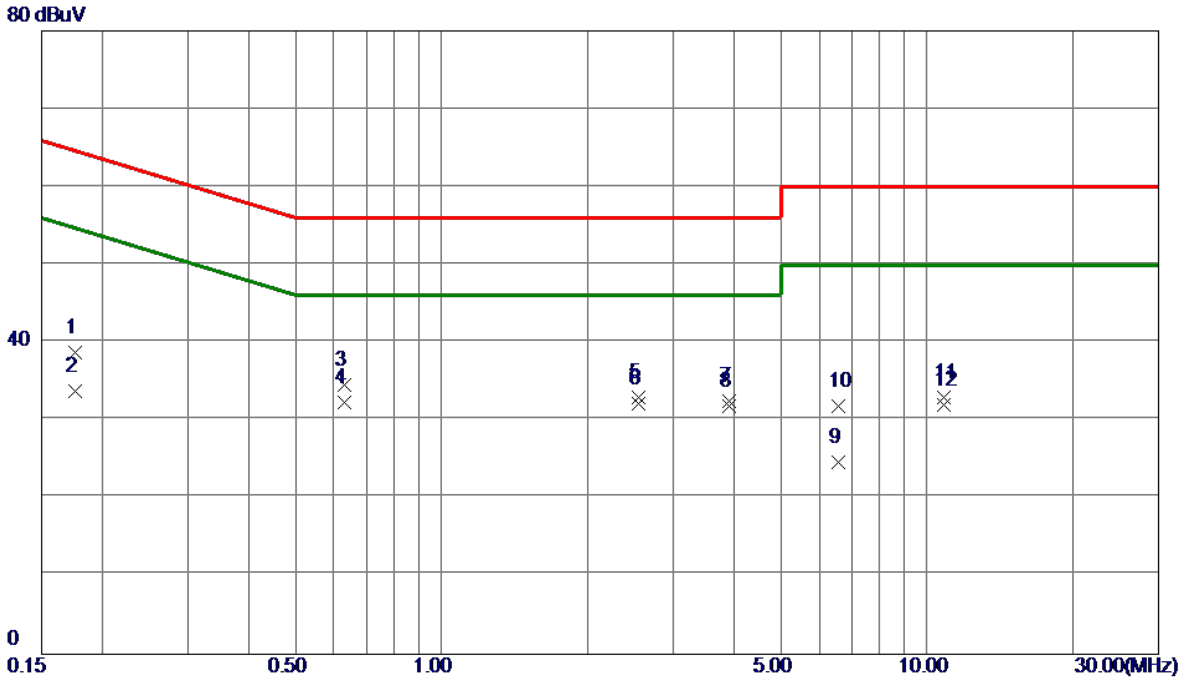
Test Mode	Normal	Test Date	2025/2/11
Test Frequency	-	Phase	Line



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1654	34.46	9.64	44.10	65.19	-21.09	QP	
2	0.1654	26.47	9.64	36.11	55.19	-19.08	AVG	
3	0.6350	25.48	9.62	35.10	56.00	-20.90	QP	
4 *	0.6350	22.75	9.62	32.37	46.00	-13.63	AVG	
5	2.1290	22.50	9.72	32.22	56.00	-23.78	QP	
6	2.1290	21.76	9.72	31.48	46.00	-14.52	AVG	
7	3.8300	22.76	9.78	32.54	56.00	-23.46	QP	
8	3.8300	22.04	9.78	31.82	46.00	-14.18	AVG	
9	10.6000	22.70	10.00	32.70	60.00	-27.30	QP	
10	10.6000	21.88	10.00	31.88	50.00	-18.12	AVG	
11	24.4500	23.35	10.37	33.72	60.00	-26.28	QP	
12	24.4500	22.25	10.37	32.62	50.00	-17.38	AVG	

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

Test Mode	Normal	Test Date	2025/2/11
Test Frequency	-	Phase	Neutral

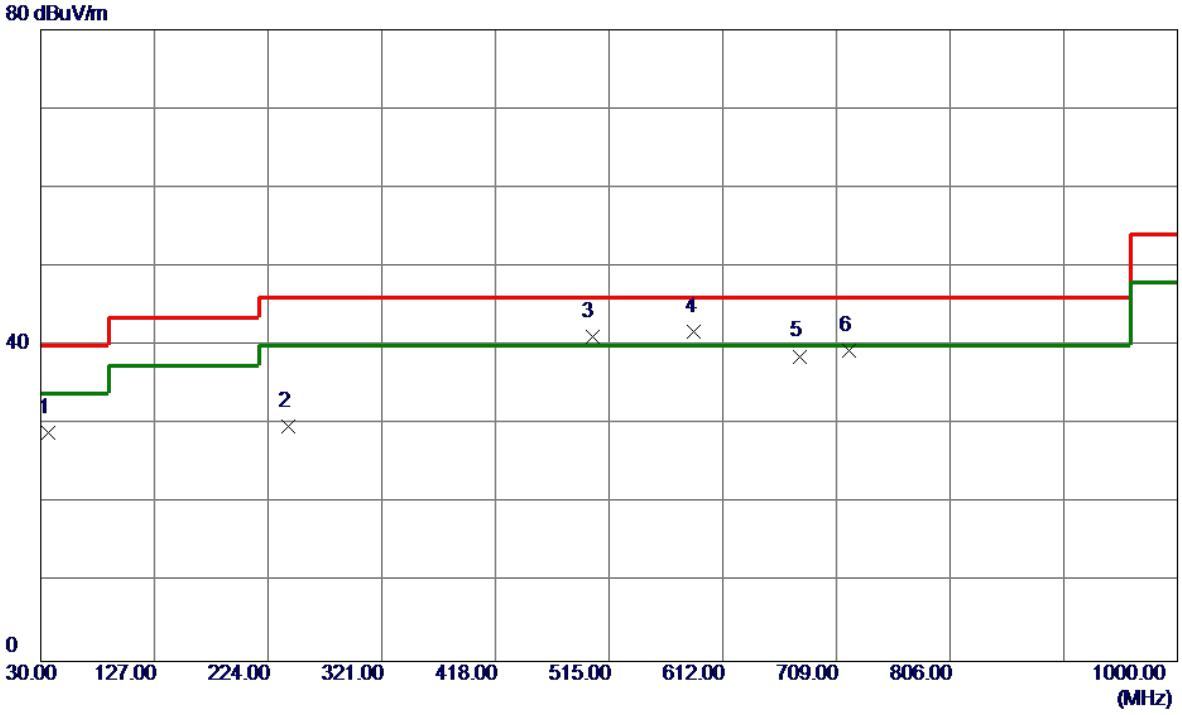


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1758	29.09	9.62	38.71	64.68	-25.97	QP	
2	0.1758	24.15	9.62	33.77	54.68	-20.91	AVG	
3	0.6304	24.99	9.61	34.60	56.00	-21.40	QP	
4 *	0.6304	22.66	9.61	32.27	46.00	-13.73	AVG	
5	2.5520	23.15	9.74	32.89	56.00	-23.11	QP	
6	2.5520	22.41	9.74	32.15	46.00	-13.85	AVG	
7	3.9020	22.77	9.78	32.55	56.00	-23.45	QP	
8	3.9020	22.02	9.78	31.80	46.00	-14.20	AVG	
9	6.5750	14.81	9.88	24.69	60.00	-35.31	QP	
10	6.5750	21.97	9.88	31.85	50.00	-18.15	AVG	
11	10.8250	22.91	10.01	32.92	60.00	-27.08	QP	
12	10.8250	21.94	10.01	31.95	50.00	-18.05	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

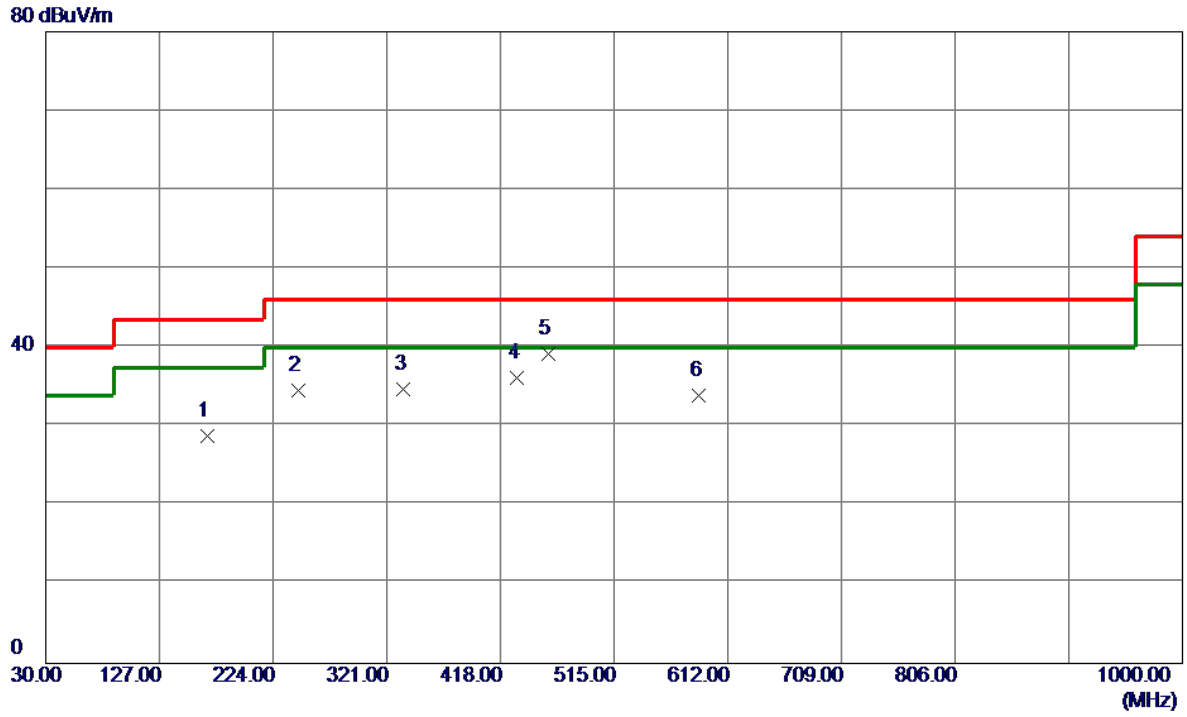
Test Mode	TX G Mode	Test Date	2025/2/11
Test Frequency	2462 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	36.7900	41.23	-12.29	28.94	40.00	-11.06	Peak	
2	241.4600	41.89	-12.10	29.79	46.00	-16.21	Peak	
3	500.4500	45.99	-4.93	41.06	46.00	-4.94	Peak	
4 *	587.7500	44.44	-2.69	41.75	46.00	-4.25	Peak	
5	677.9600	38.78	-0.14	38.64	46.00	-7.36	Peak	
6	719.6700	38.65	0.65	39.30	46.00	-6.70	Peak	

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

Test Mode	TX G Mode	Test Date	2025/2/11
Test Frequency	2462 MHz	Polarization	Horizontal

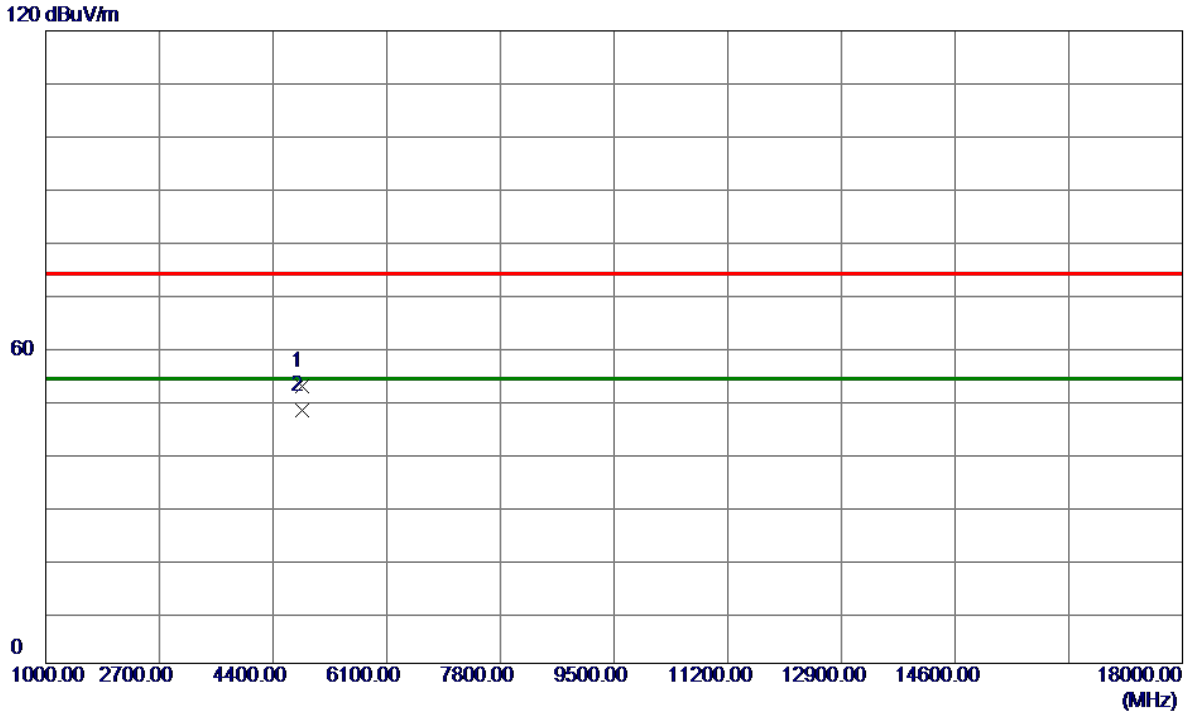


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	167.7400	40.33	-11.59	28.74	43.50	-14.76	Peak	
2	245.3400	46.44	-11.95	34.49	46.00	-11.51	Peak	
3	335.5500	43.75	-9.08	34.67	46.00	-11.33	Peak	
4	432.5500	42.27	-6.11	36.16	46.00	-9.84	Peak	
5 *	458.7400	44.77	-5.60	39.17	46.00	-6.83	Peak	
6	587.7500	36.66	-2.69	33.97	46.00	-12.03	Peak	

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

APPENDIX C - RADIATED EMISSION- ABOVE 1000 MHZ

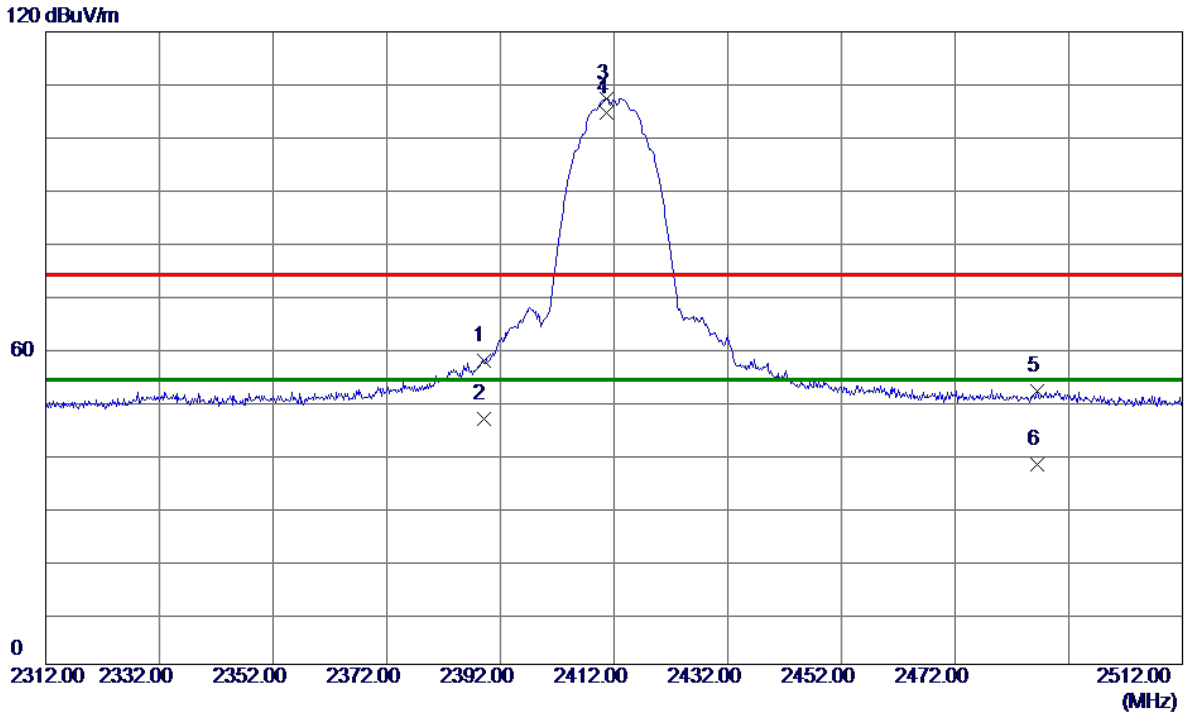
Test Mode	TX B Mode	Test Date	2025/2/13
Test Frequency	2412 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4825.0000	50.66	1.79	52.45	74.00	-21.55	Peak	
2 *	4825.0000	46.17	1.79	47.96	54.00	-6.04	AVG	

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

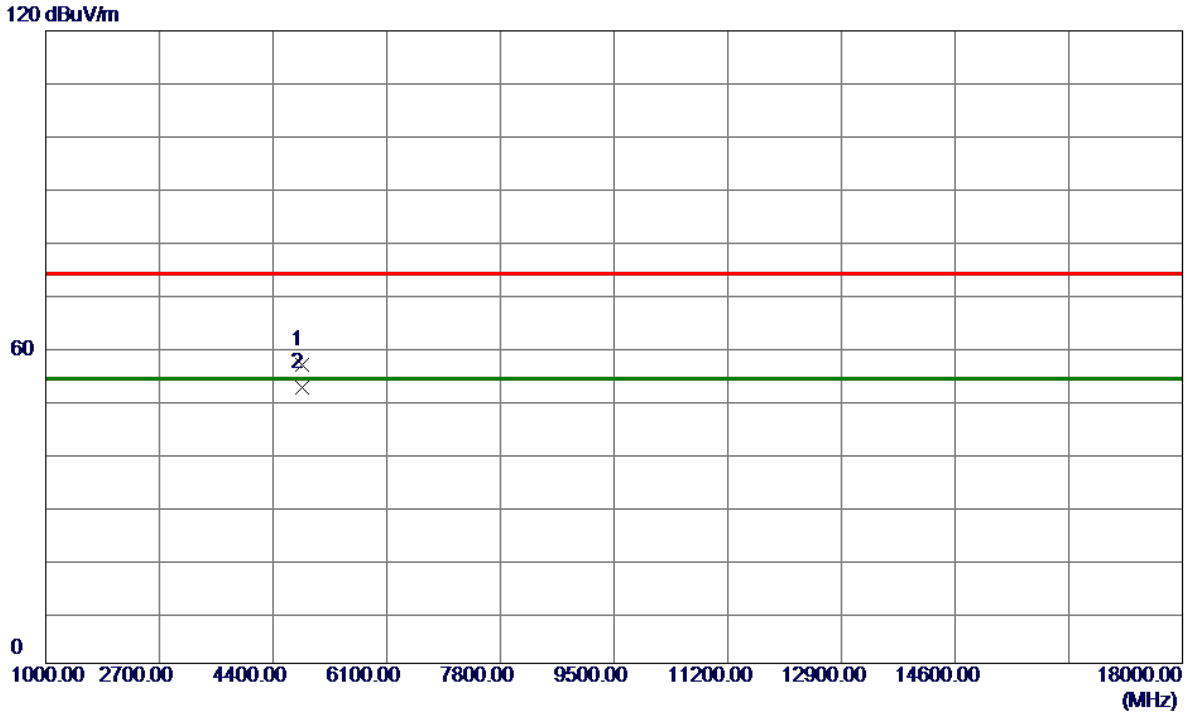
Test Mode	TX B Mode	Test Date	2025/2/13
Test Frequency	2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2389.0000	52.43	5.24	57.67	74.00	-16.33	Peak	
2	2389.0000	41.23	5.24	46.47	54.00	-7.53	AVG	
3	2410.6000	102.03	5.28	107.31	74.00	33.31	Peak	No Limit
4 *	2410.6000	99.37	5.28	104.65	54.00	50.65	AVG	No Limit
5	2486.4000	46.49	5.42	51.91	74.00	-22.09	Peak	
6	2486.4000	32.58	5.42	38.00	54.00	-16.00	AVG	

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

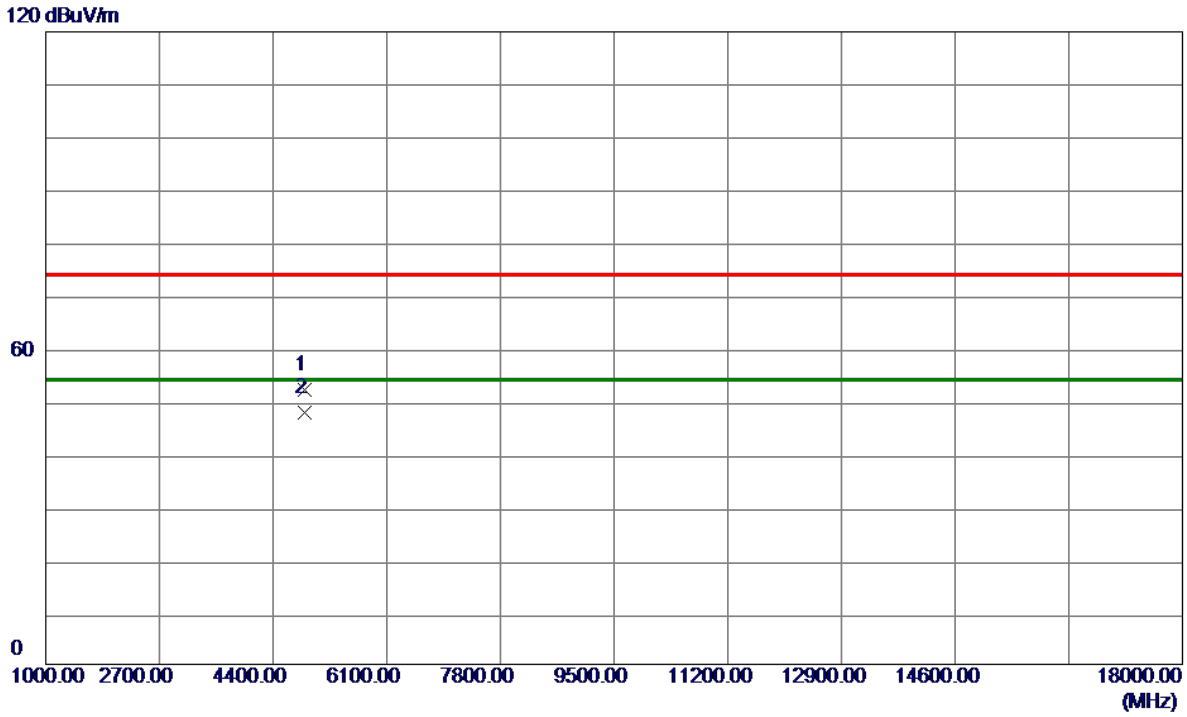
Test Mode	TX B Mode	Test Date	2025/2/13
Test Frequency	2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4825.0000	54.90	1.79	56.69	74.00	-17.31	Peak	
2 *	4825.0000	50.62	1.79	52.41	54.00	-1.59	AVG	

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

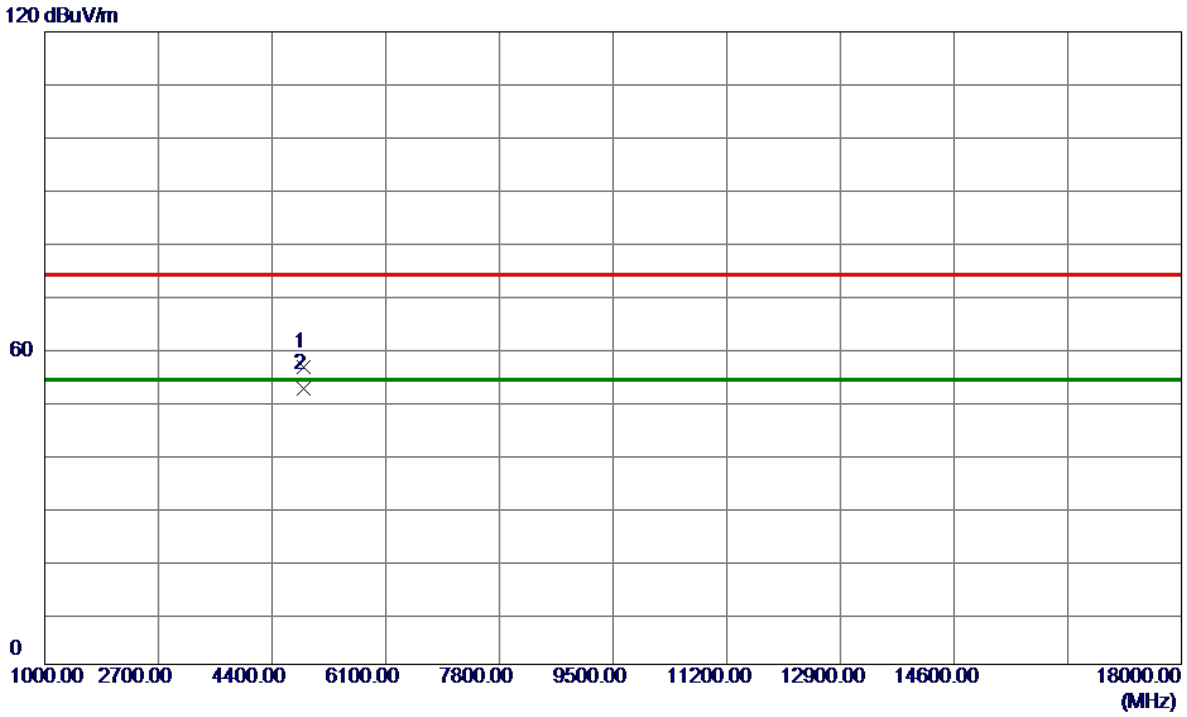
Test Mode	TX B Mode	Test Date	2025/2/13
Test Frequency	2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4876.0000	50.15	1.88	52.03	74.00	-21.97	Peak	
2 *	4876.0000	45.94	1.88	47.82	54.00	-6.18	AVG	

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

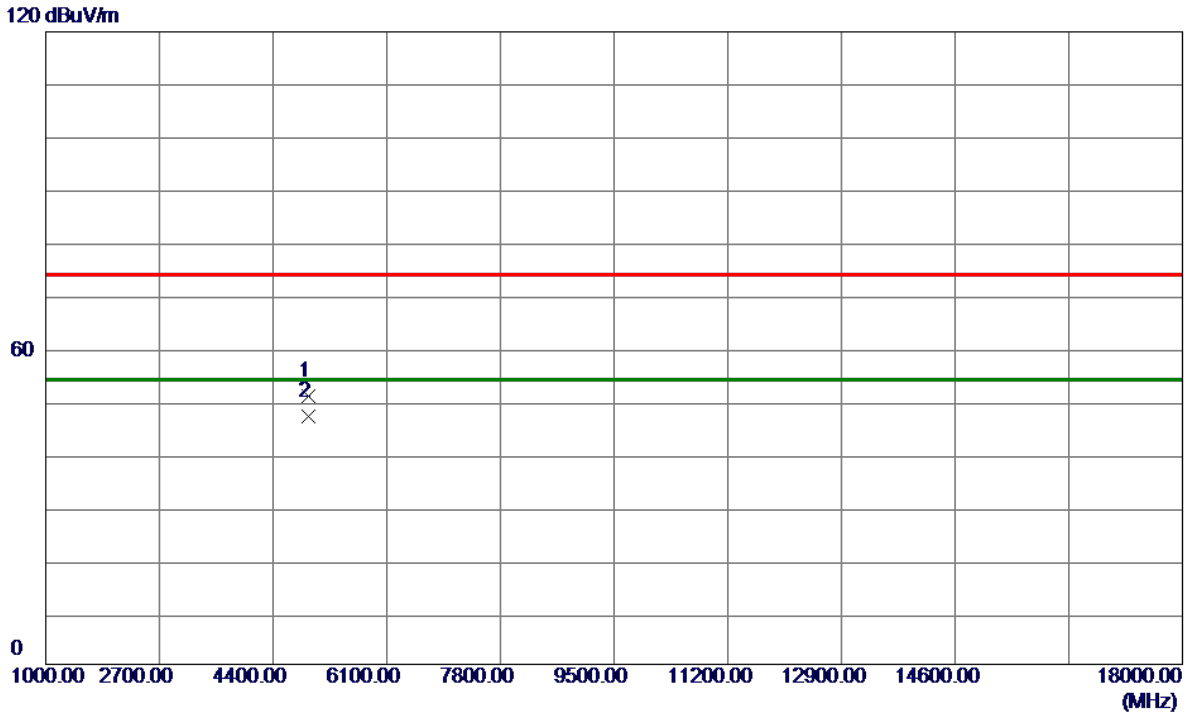
Test Mode	TX B Mode	Test Date	2025/2/13
Test Frequency	2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4876.0000	54.48	1.88	56.36	74.00	-17.64	Peak	
2 *	4876.0000	50.55	1.88	52.43	54.00	-1.57	AVG	

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

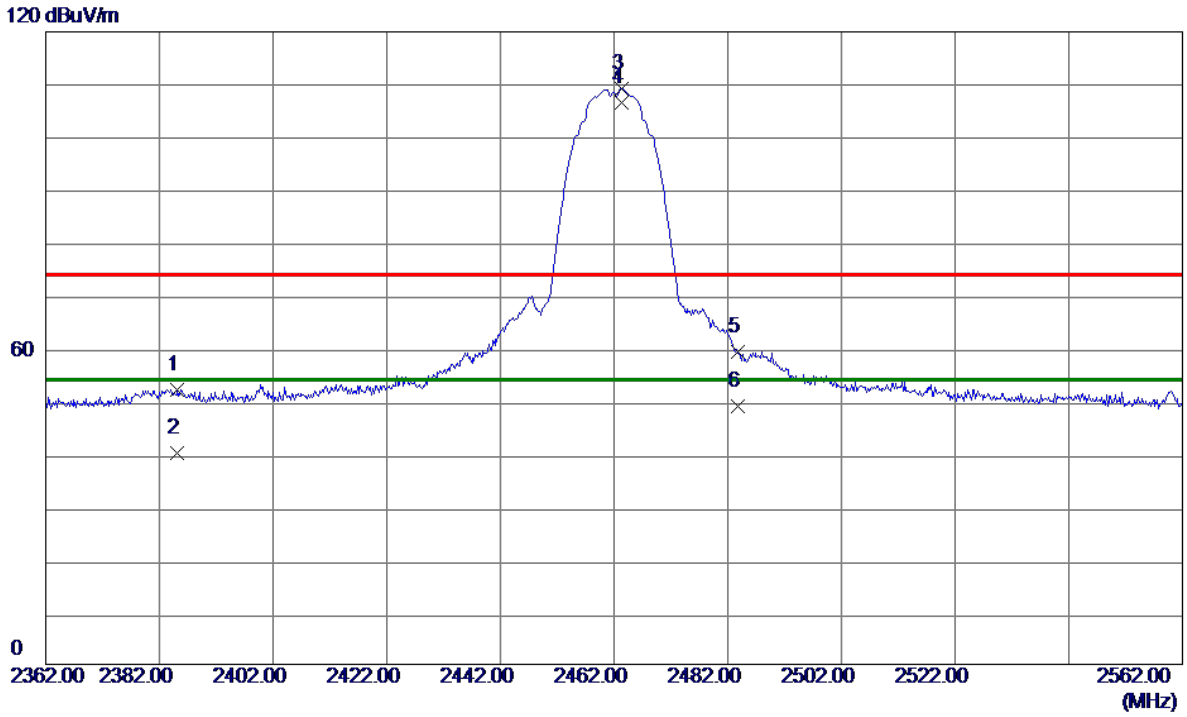
Test Mode	TX B Mode	Test Date	2025/2/13
Test Frequency	2462 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4927.0000	48.84	1.96	50.80	74.00	-23.20	Peak	
2 *	4927.0000	45.04	1.96	47.00	54.00	-7.00	AVG	

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

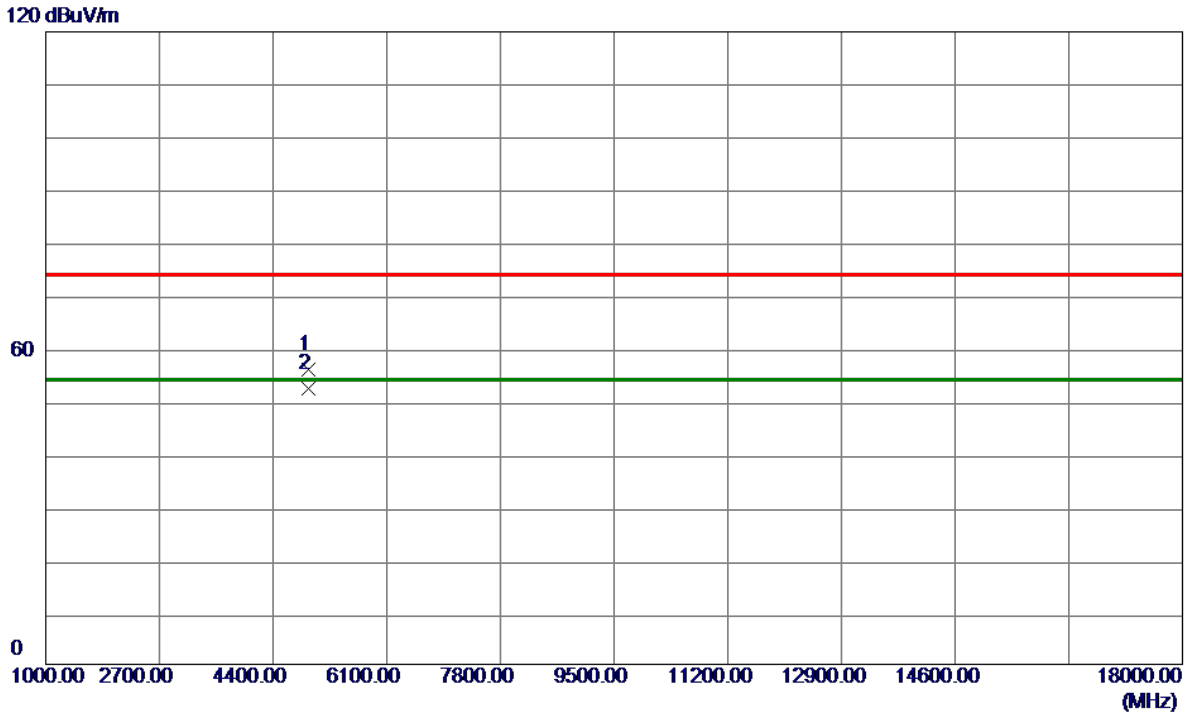
Test Mode	TX B Mode	Test Date	2025/2/13
Test Frequency	2462 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2385.2000	46.93	5.23	52.16	74.00	-21.84	Peak	
2	2385.2000	34.75	5.23	39.98	54.00	-14.02	AVG	
3	2463.4000	103.91	5.37	109.28	74.00	35.28	Peak	No Limit
4 *	2463.4000	101.07	5.37	106.44	54.00	52.44	AVG	No Limit
5	2483.8000	53.89	5.41	59.30	74.00	-14.70	Peak	
6	2483.8000	43.63	5.41	49.04	54.00	-4.96	AVG	

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

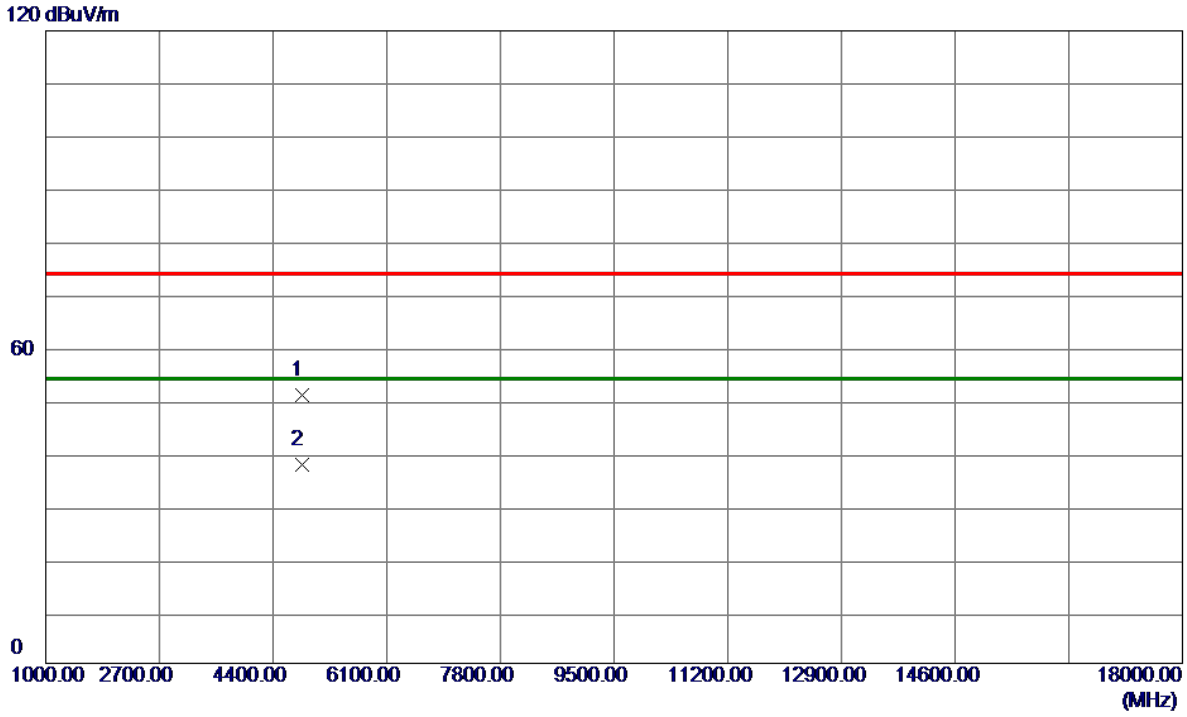
Test Mode	TX B Mode	Test Date	2025/2/13
Test Frequency	2462 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4927.0000	53.96	1.96	55.92	74.00	-18.08	Peak	
2 *	4927.0000	50.25	1.96	52.21	54.00	-1.79	AVG	

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

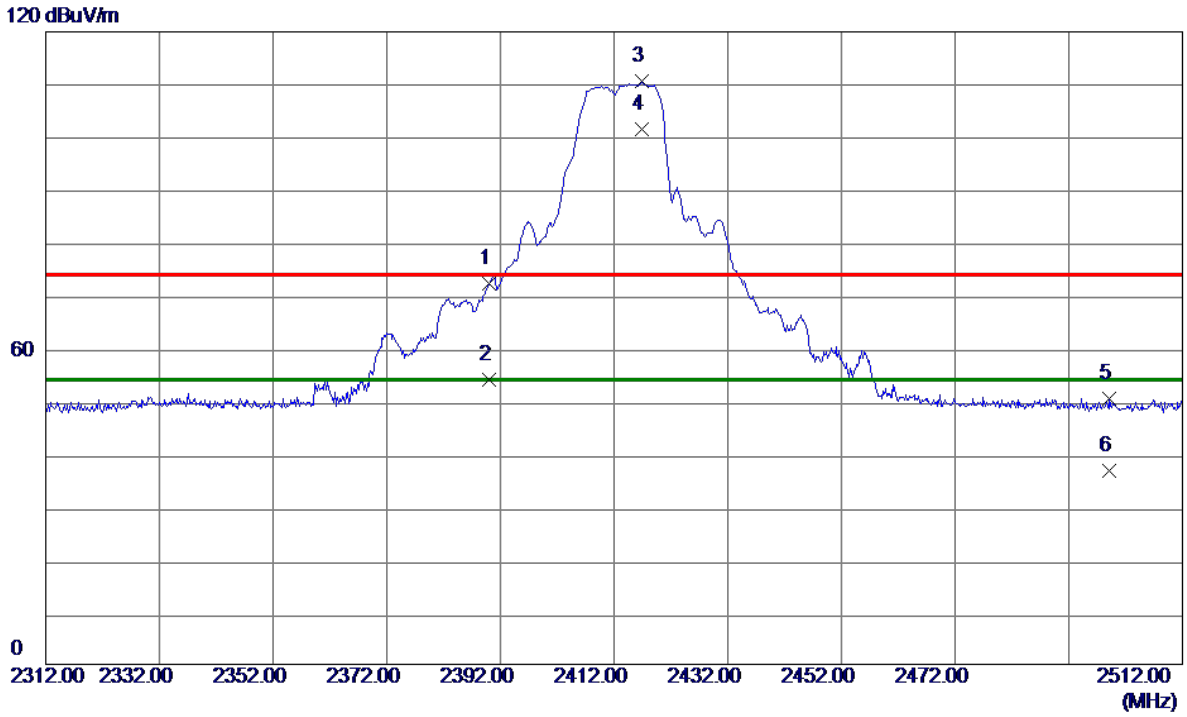
Test Mode	TX G Mode	Test Date	2025/2/13
Test Frequency	2412 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4825.0000	49.15	1.79	50.94	74.00	-23.06	Peak	
2 *	4825.0000	35.98	1.79	37.77	54.00	-16.23	AVG	

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

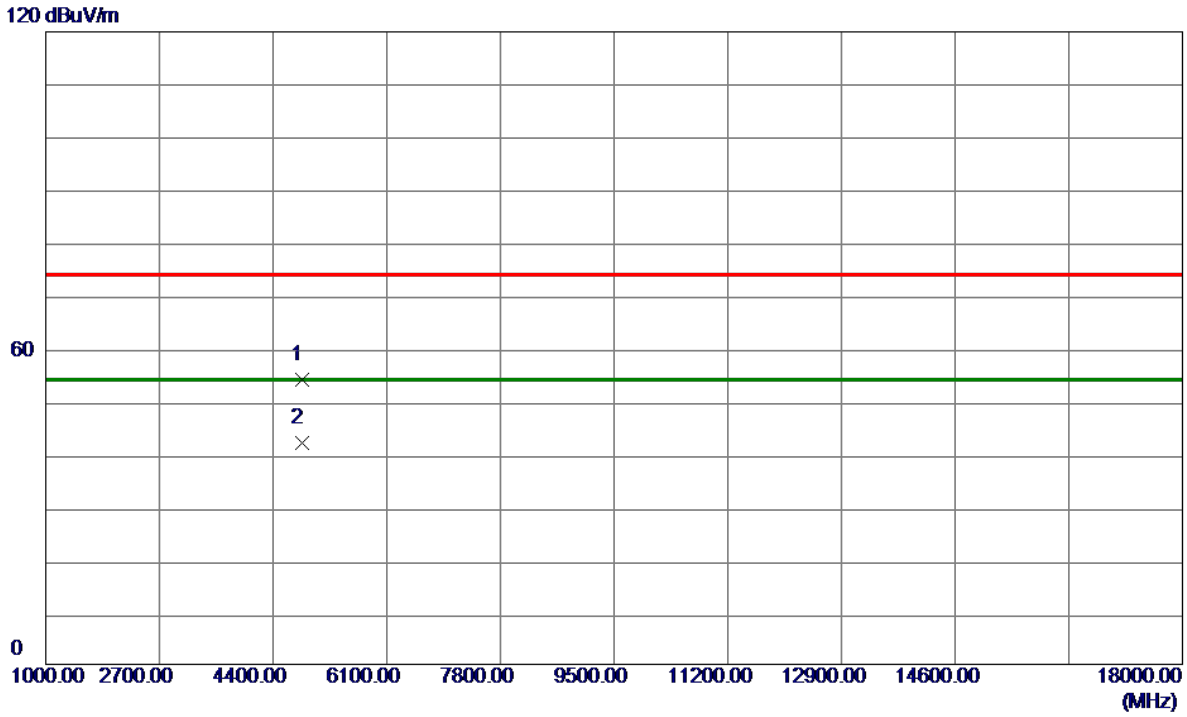
Test Mode	TX G Mode	Test Date	2025/2/13
Test Frequency	2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	66.96	5.24	72.20	74.00	-1.80	Peak	
2	2390.0000	48.68	5.24	53.92	54.00	-0.08	AVG	
3	2416.8000	105.34	5.29	110.63	74.00	36.63	Peak	No Limit
4 *	2416.8000	96.27	5.29	101.56	54.00	47.56	AVG	No Limit
5	2499.2000	44.94	5.44	50.38	74.00	-23.62	Peak	
6	2499.2000	31.29	5.44	36.73	54.00	-17.27	AVG	

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

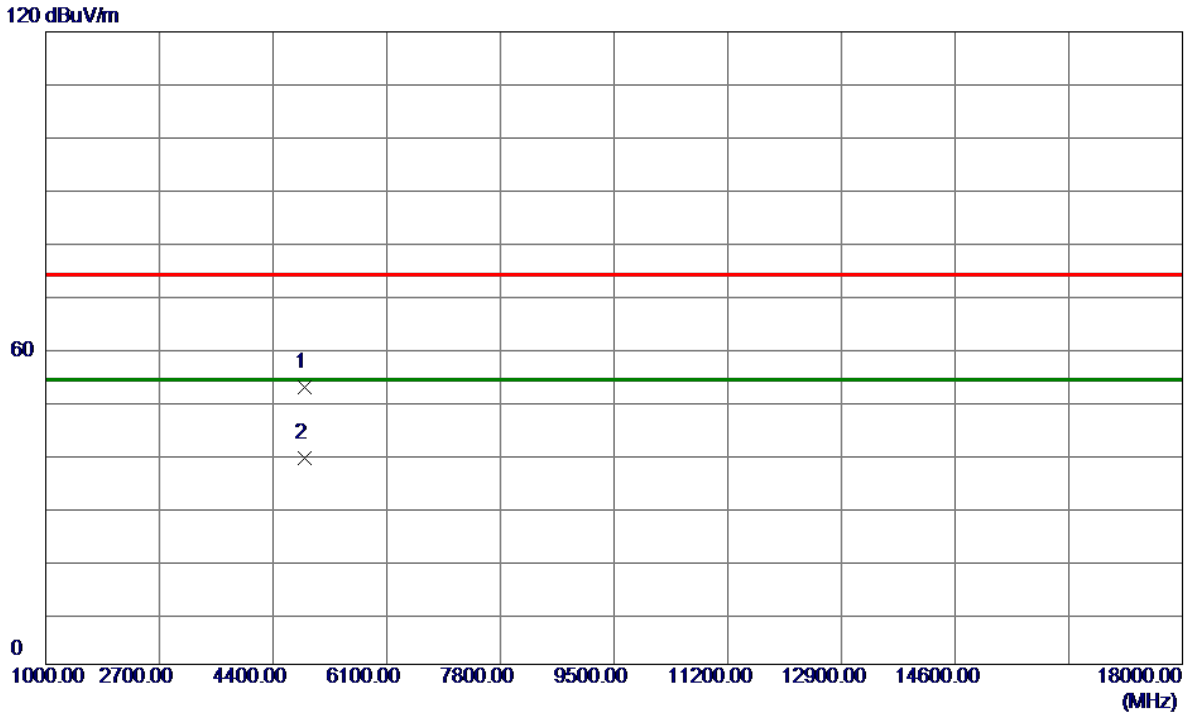
Test Mode	TX G Mode	Test Date	2025/2/13
Test Frequency	2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4825.0000	52.16	1.79	53.95	74.00	-20.05	Peak	
2 *	4825.0000	40.12	1.79	41.91	54.00	-12.09	AVG	

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

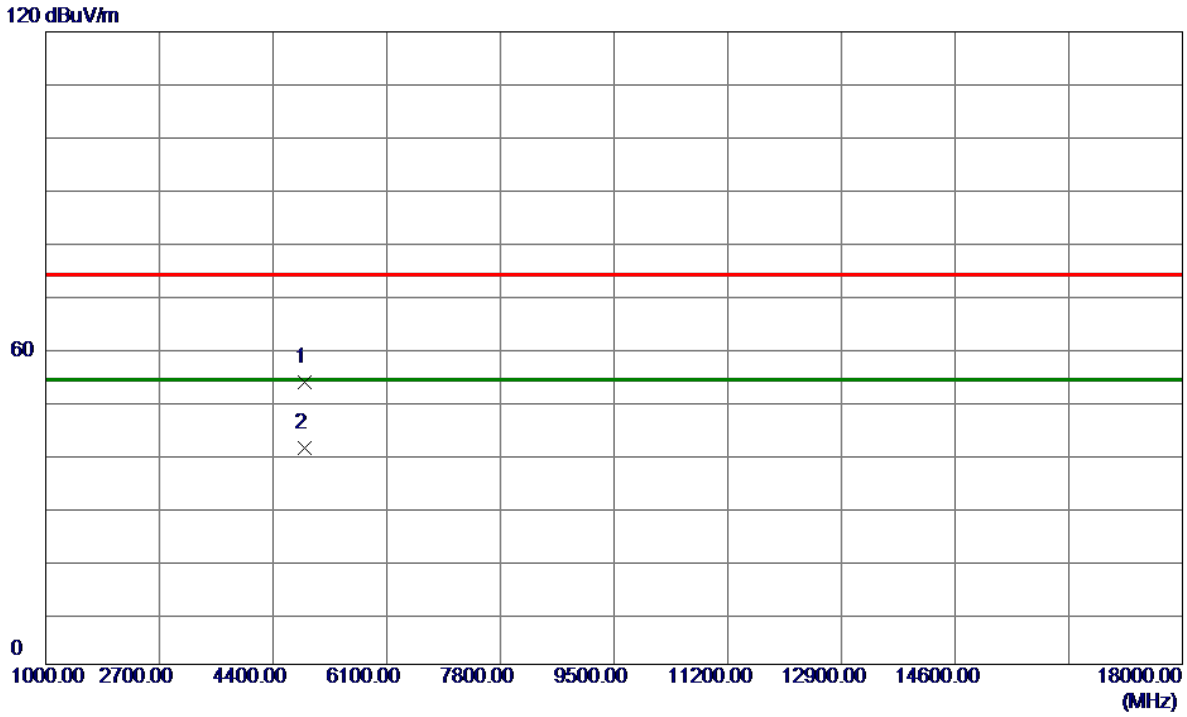
Test Mode	TX G Mode	Test Date	2025/2/13
Test Frequency	2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4876.0000	50.64	1.88	52.52	74.00	-21.48	Peak	
2 *	4876.0000	37.15	1.88	39.03	54.00	-14.97	AVG	

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

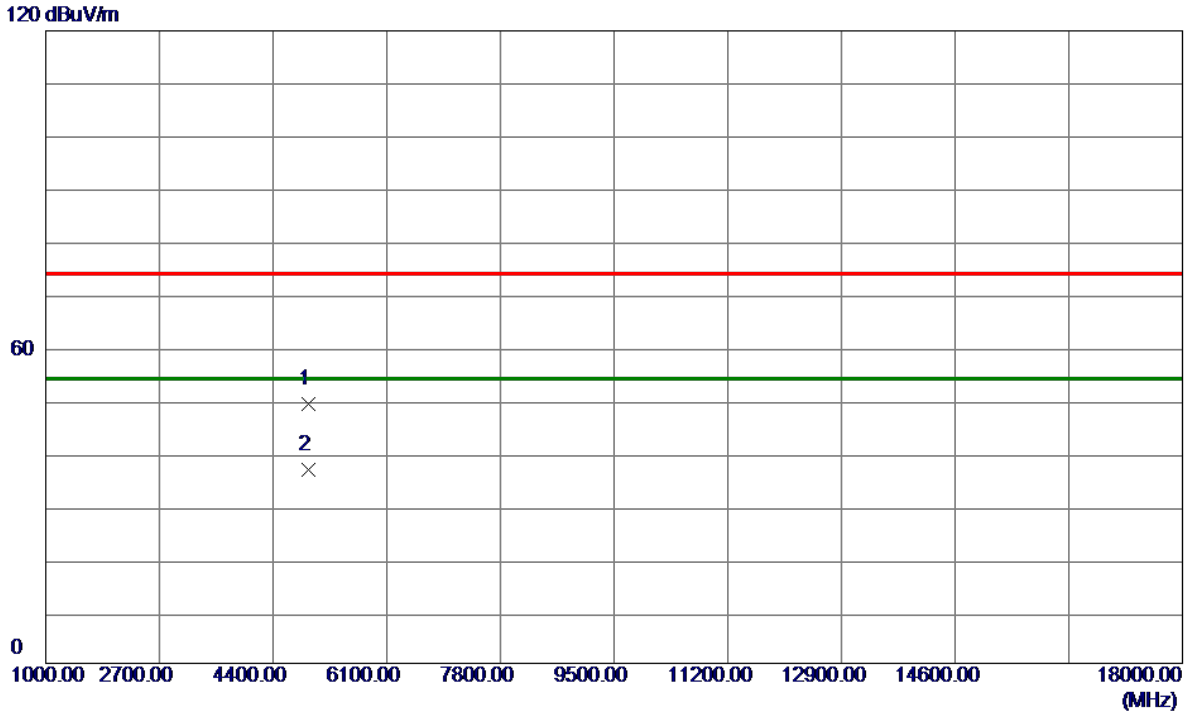
Test Mode	TX G Mode	Test Date	2025/2/13
Test Frequency	2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4876.0000	51.53	1.88	53.41	74.00	-20.59	Peak	
2 *	4876.0000	39.18	1.88	41.06	54.00	-12.94	AVG	

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

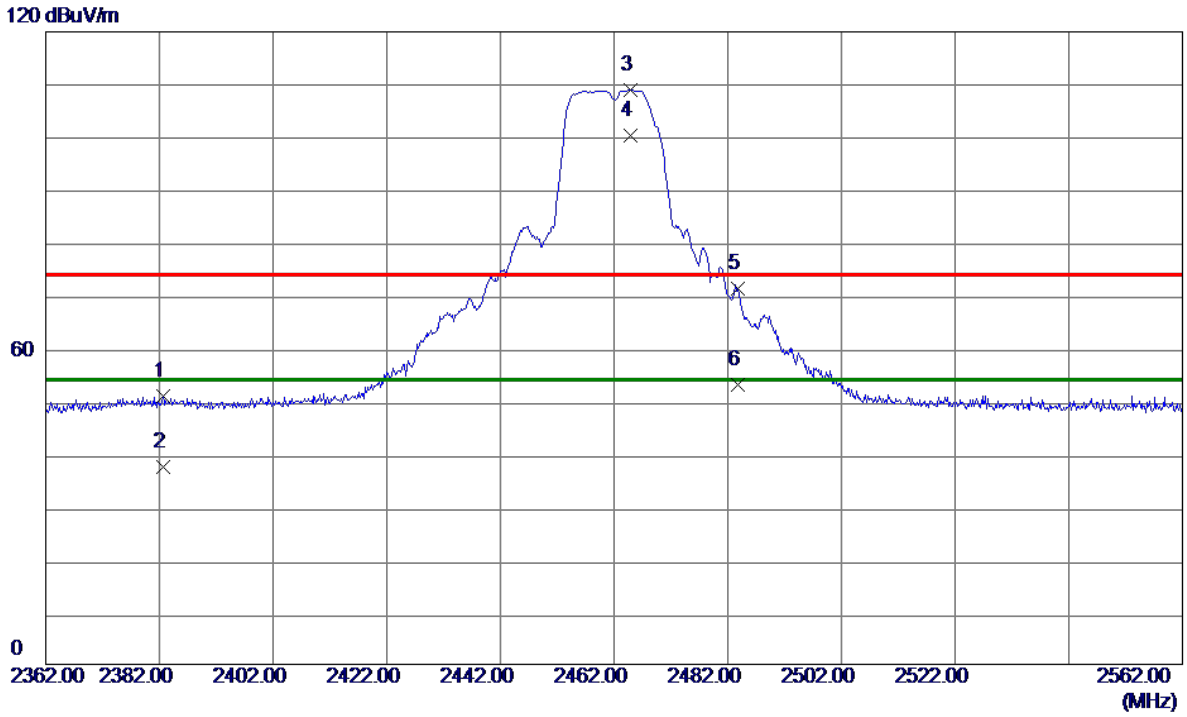
Test Mode	TX G Mode	Test Date	2025/2/13
Test Frequency	2462 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.0000	47.27	1.96	49.23	74.00	-24.77	Peak	
2 *	4924.0000	34.85	1.96	36.81	54.00	-17.19	AVG	

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

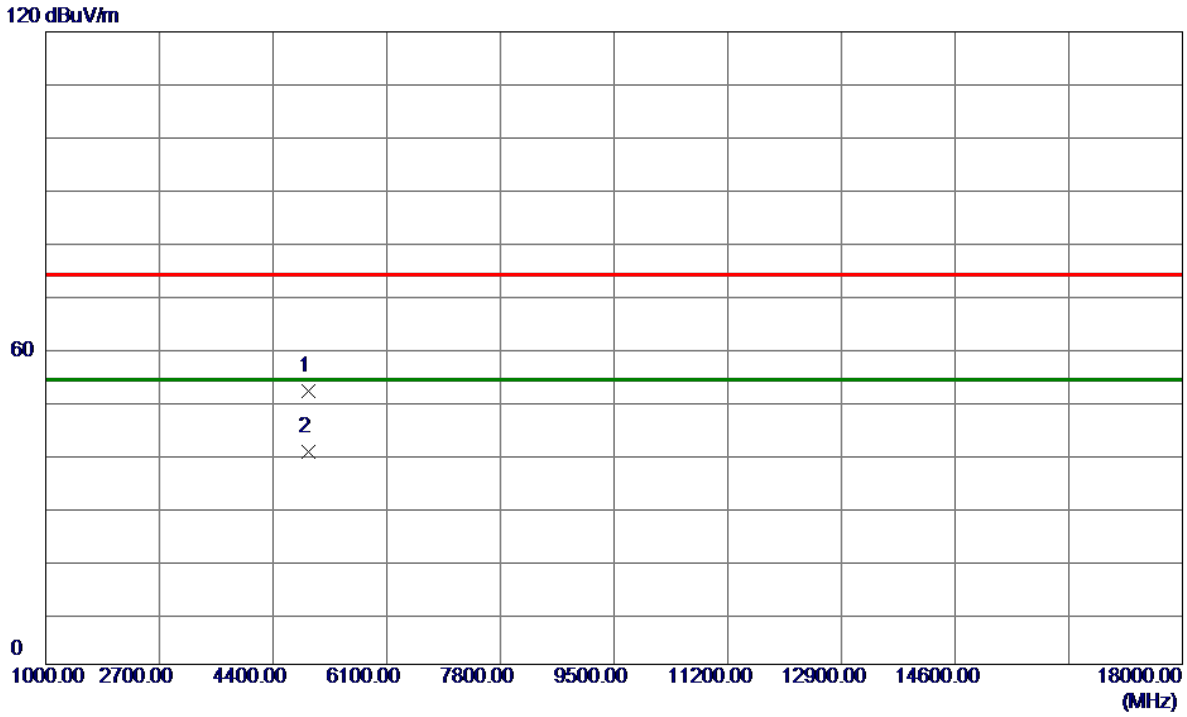
Test Mode	TX G Mode	Test Date	2025/2/13
Test Frequency	2462 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2382.6000	45.64	5.23	50.87	74.00	-23.13	Peak	
2	2382.6000	32.26	5.23	37.49	54.00	-16.51	AVG	
3	2464.8000	103.56	5.38	108.94	74.00	34.94	Peak	No Limit
4 *	2464.8000	94.86	5.38	100.24	54.00	46.24	AVG	No Limit
5	2483.8000	65.86	5.41	71.27	74.00	-2.73	Peak	
6	2483.8000	47.69	5.41	53.10	54.00	-0.90	AVG	

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

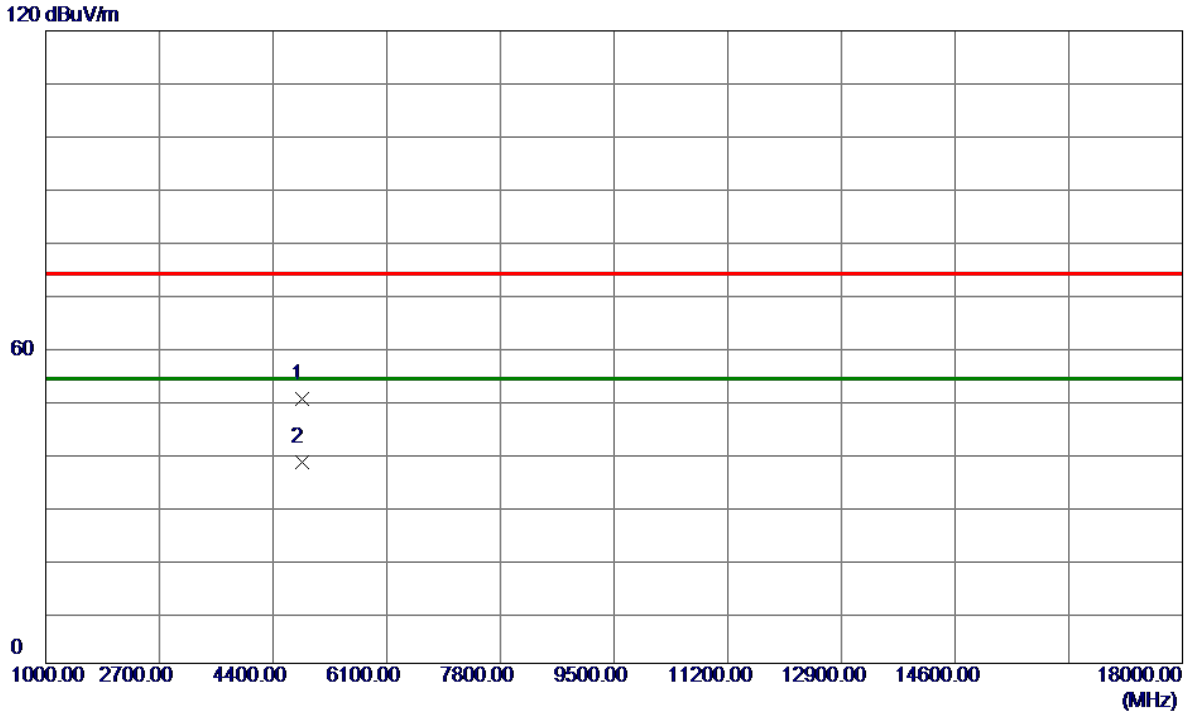
Test Mode	TX G Mode	Test Date	2025/2/13
Test Frequency	2462 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4927.0000	49.98	1.96	51.94	74.00	-22.06	Peak	
2 *	4927.0000	38.35	1.96	40.31	54.00	-13.69	AVG	

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

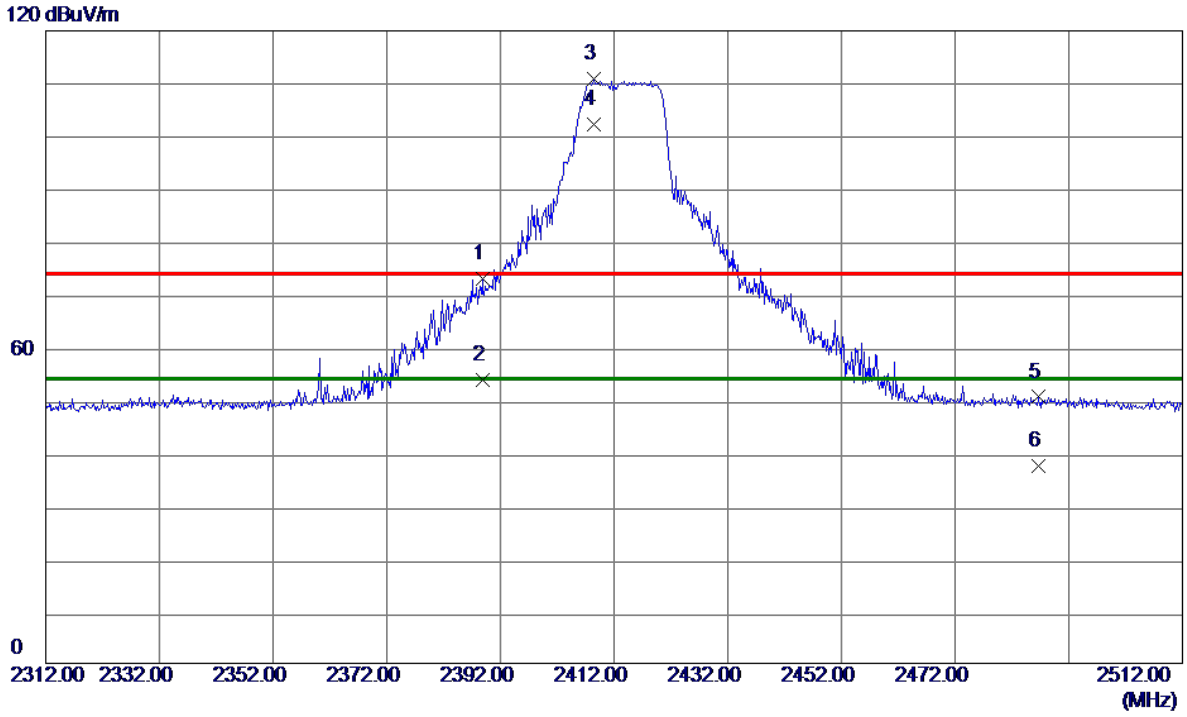
Test Mode	TX N(HT20) Mode	Test Date	2025/2/13
Test Frequency	2412 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4825.0000	48.41	1.79	50.20	74.00	-23.80	Peak	
2 *	4825.0000	36.39	1.79	38.18	54.00	-15.82	AVG	

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

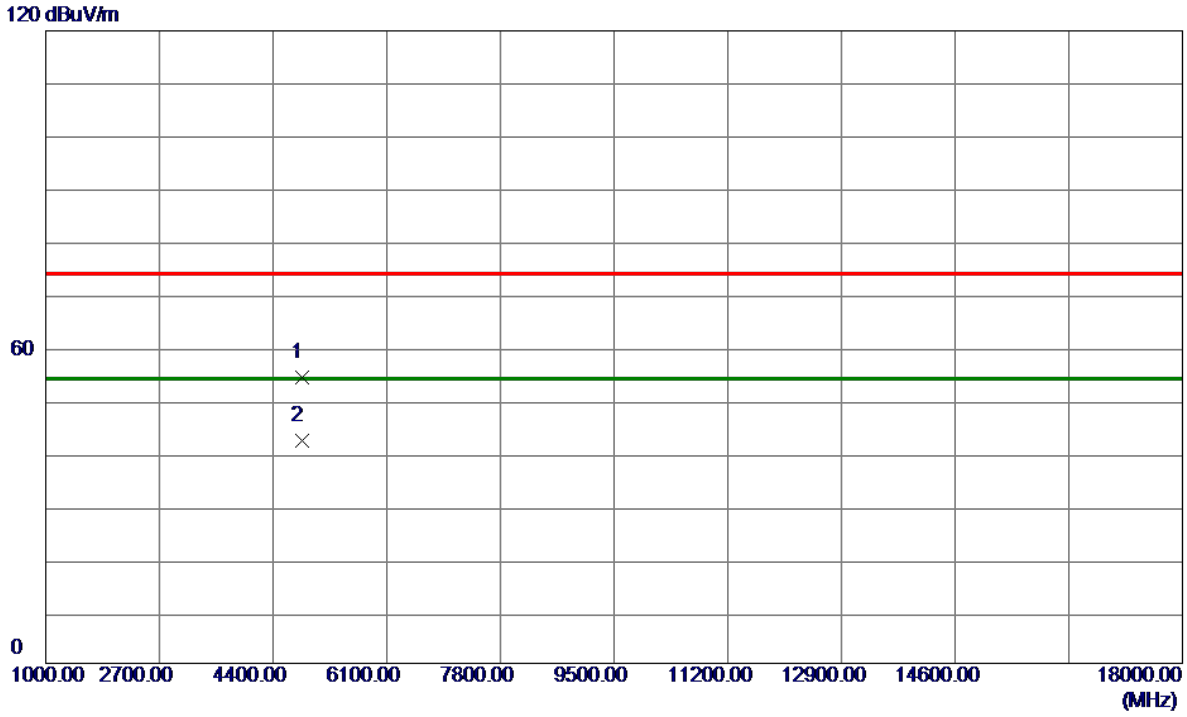
Test Mode	TX N(HT20) Mode	Test Date	2025/2/13
Test Frequency	2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2388.8000	67.67	5.24	72.91	74.00	-1.09	Peak	
2	2388.8000	48.61	5.24	53.85	54.00	-0.15	AVG	
3	2408.4000	105.51	5.28	110.79	74.00	36.79	Peak	No Limit
4 *	2408.4000	96.84	5.28	102.12	54.00	48.12	AVG	No Limit
5	2486.6000	45.10	5.42	50.52	74.00	-23.48	Peak	
6	2486.6000	32.02	5.42	37.44	54.00	-16.56	AVG	

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

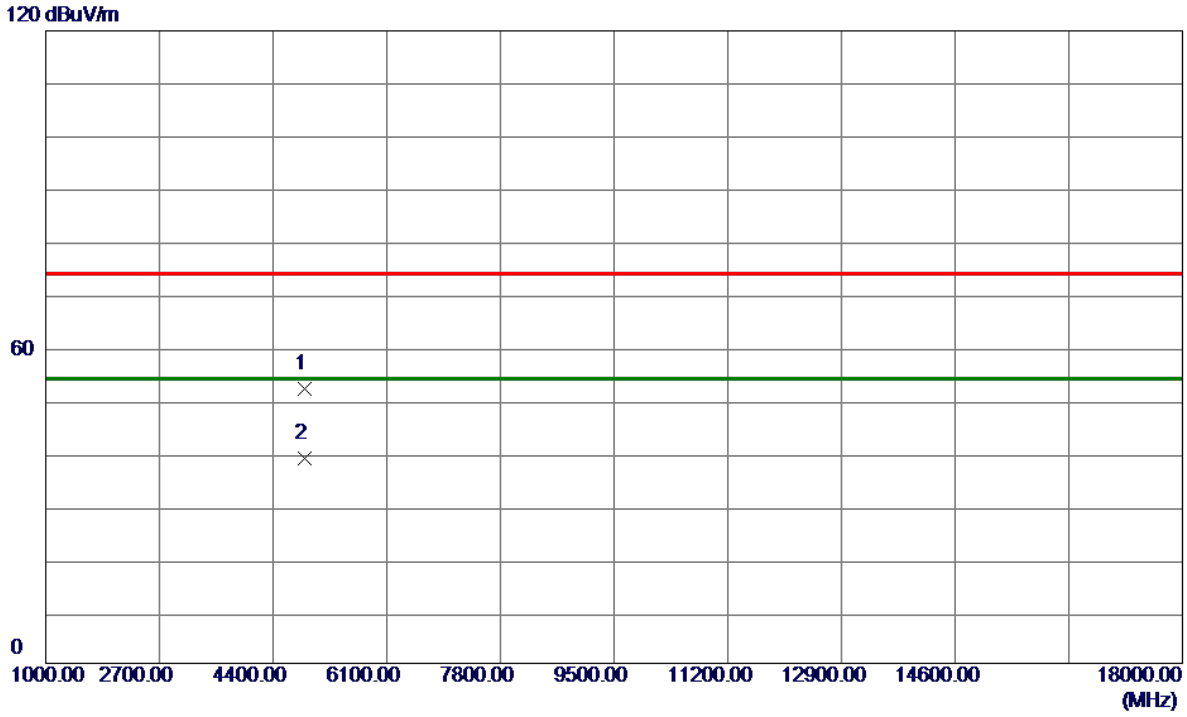
Test Mode	TX N(HT20) Mode	Test Date	2025/2/13
Test Frequency	2412 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4825.0000	52.42	1.79	54.21	74.00	-19.79	Peak	
2 *	4825.0000	40.41	1.79	42.20	54.00	-11.80	AVG	

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

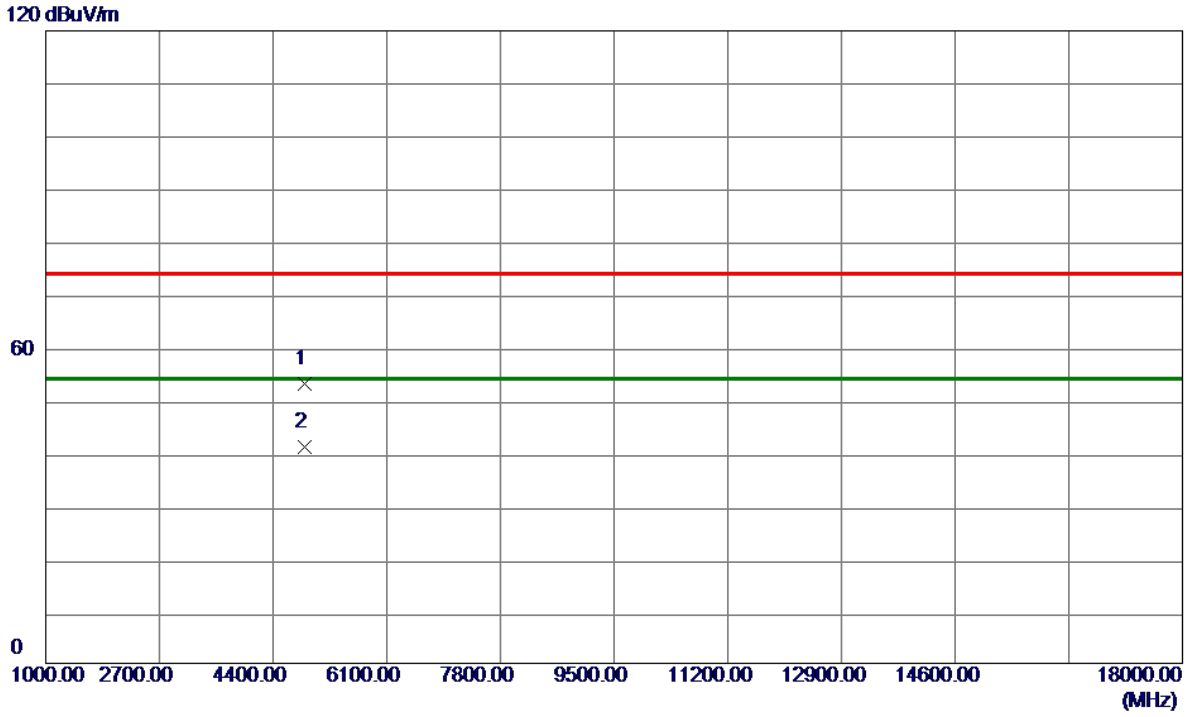
Test Mode	TX N(HT20) Mode	Test Date	2025/2/13
Test Frequency	2437 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4876.0000	50.18	1.88	52.06	74.00	-21.94	Peak	
2 *	4876.0000	37.07	1.88	38.95	54.00	-15.05	AVG	

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

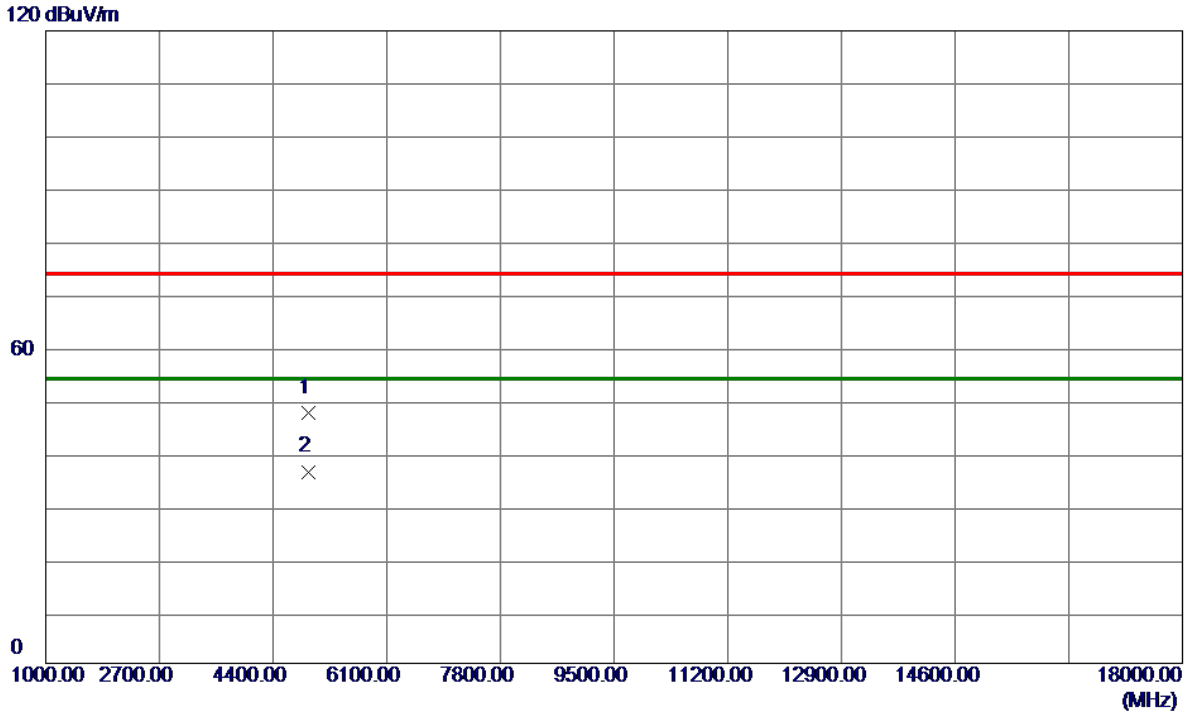
Test Mode	TX N(HT20) Mode	Test Date	2025/2/13
Test Frequency	2437 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4876.0000	51.05	1.88	52.93	74.00	-21.07	Peak	
2 *	4876.0000	39.08	1.88	40.96	54.00	-13.04	AVG	

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

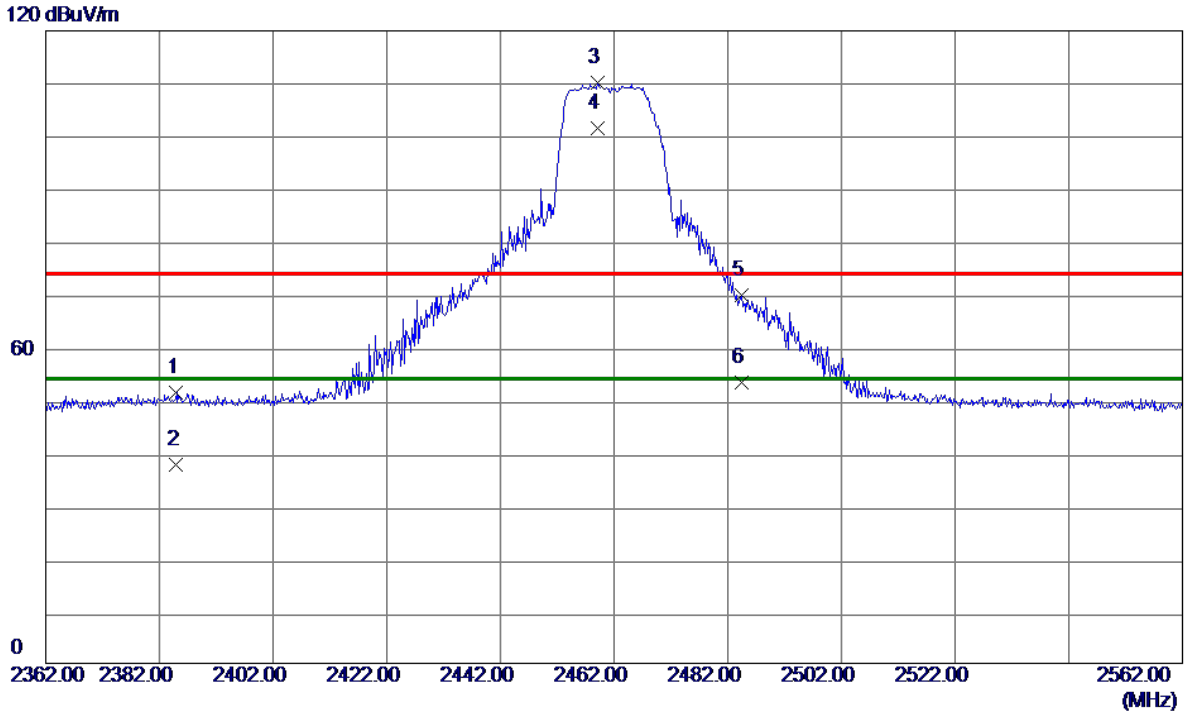
Test Mode	TX N(HT20) Mode	Test Date	2025/2/13
Test Frequency	2462 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4927.0000	45.67	1.96	47.63	74.00	-26.37	Peak	
2 *	4927.0000	34.40	1.96	36.36	54.00	-17.64	AVG	

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

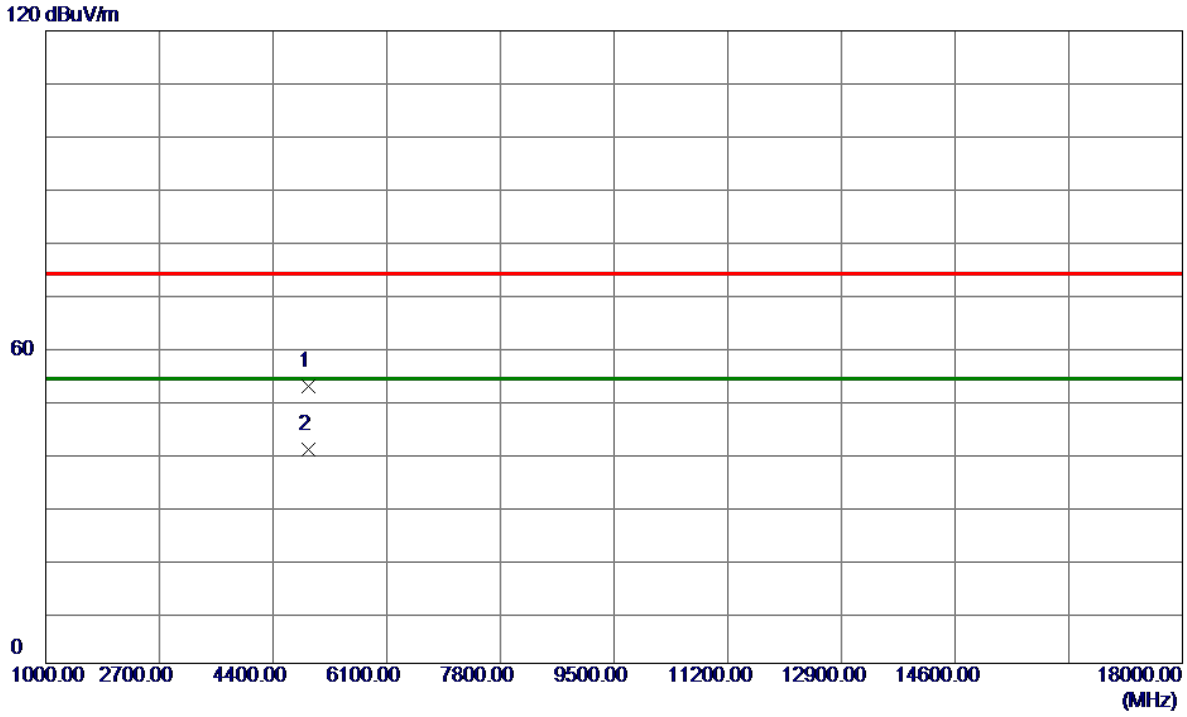
Test Mode	TX N(HT20) Mode	Test Date	2025/2/13
Test Frequency	2462 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2385.0000	46.10	5.23	51.33	74.00	-22.67	Peak	
2	2385.0000	32.45	5.23	37.68	54.00	-16.32	AVG	
3	2459.2000	104.69	5.37	110.06	74.00	36.06	Peak	No Limit
4 *	2459.2000	96.14	5.37	101.51	54.00	47.51	AVG	No Limit
5	2484.4000	64.52	5.41	69.93	74.00	-4.07	Peak	
6	2484.4000	47.89	5.41	53.30	54.00	-0.70	AVG	

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

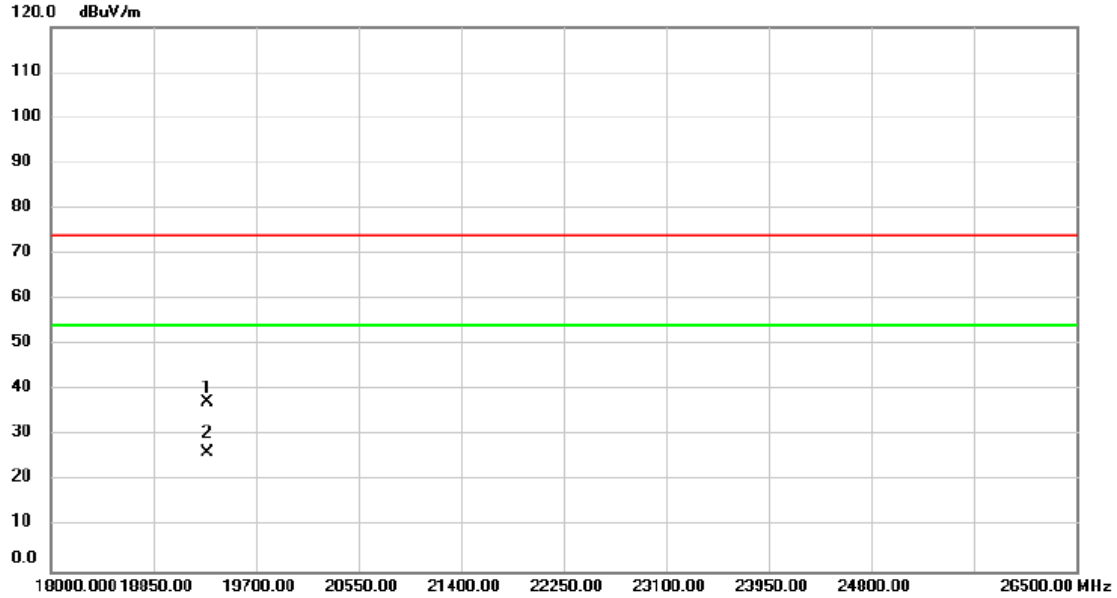
Test Mode	TX N(HT20) Mode	Test Date	2025/2/13
Test Frequency	2462 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4927.0000	50.71	1.96	52.67	74.00	-21.33	Peak	
2 *	4927.0000	38.57	1.96	40.53	54.00	-13.47	AVG	

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

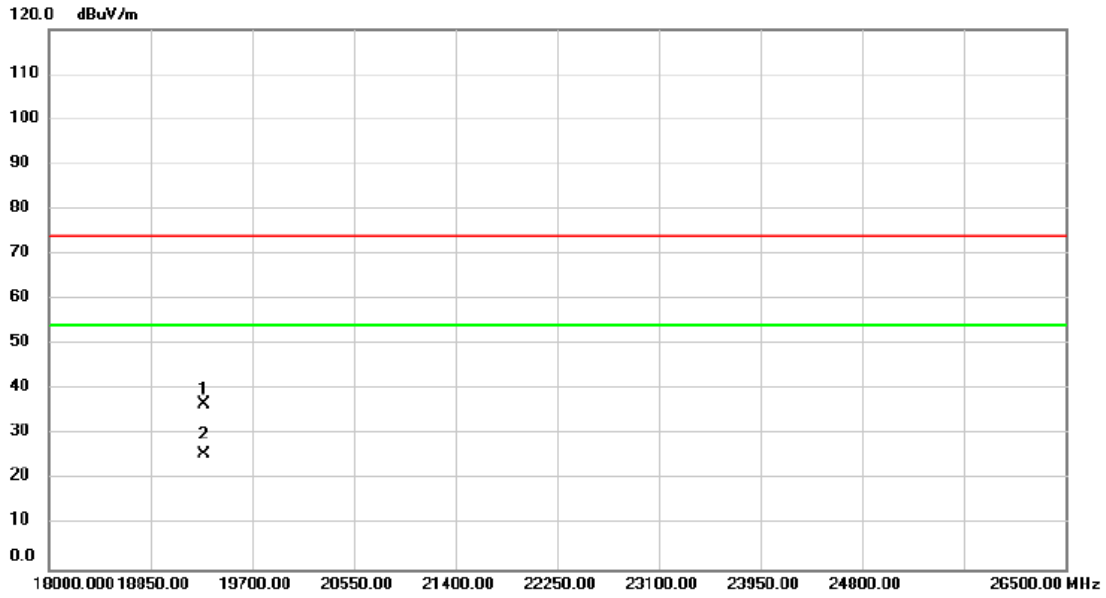
Test Mode	TX G Mode	Test Date	2025/2/13
Test Frequency	2462 MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		19296.00	47.41	-10.01	37.40	74.00	-36.60	peak			
2	*	19296.00	36.32	-10.01	26.31	54.00	-27.69	AVG			

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

Test Mode	TX G Mode	Test Date	2025/2/13
Test Frequency	2462 MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		19296.00	46.78	-10.01	36.77	74.00	-37.23	peak			
2	*	19296.00	35.69	-10.01	25.68	54.00	-28.32	AVG			

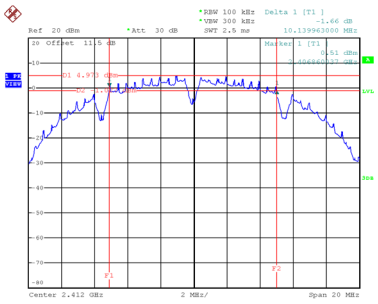
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

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	10.140	14.960	0.5	Complies
06	2437	10.120	14.960	0.5	Complies
11	2462	10.120	14.960	0.5	Complies

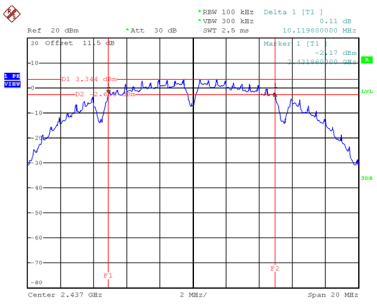
CH01



Date: 18.FEB.2025 17:11:35

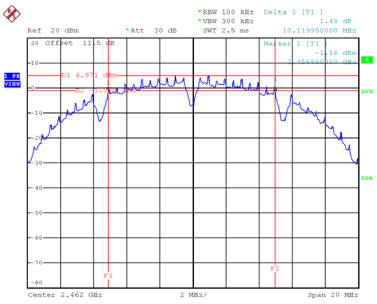
CH06

6 dB Bandwidth



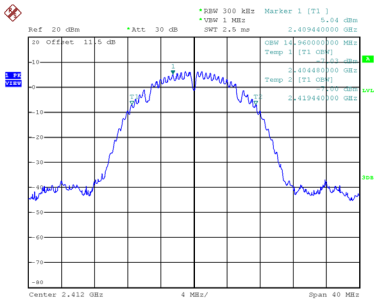
Date: 18.FEB.2025 17:14:30

CH11

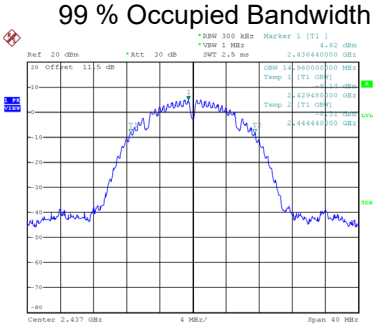


Date: 18.FEB.2025 17:16:25

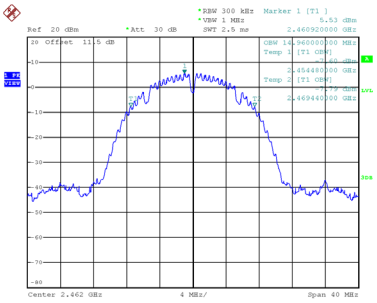
99 % Occupied Bandwidth



Date: 18.FEB.2025 17:11:44



Date: 18.FEB.2025 17:14:39

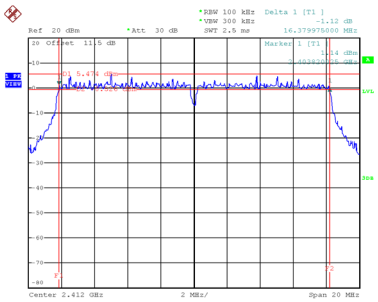


Date: 18.FEB.2025 17:16:34

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	16.380	16.880	0.5	Complies
06	2437	16.380	17.040	0.5	Complies
11	2462	16.410	17.280	0.5	Complies

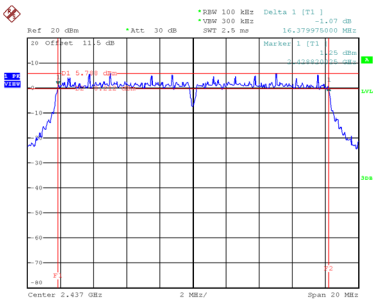
CH01



Date: 18.FEB.2025 17:31:51

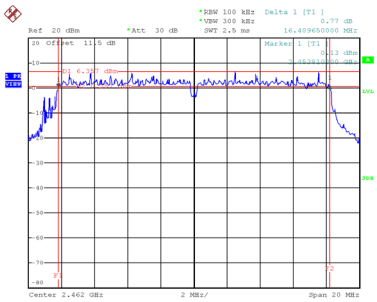
CH06

6 dB Bandwidth



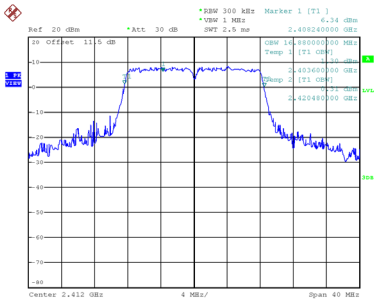
Date: 18.FEB.2025 17:34:58

CH11

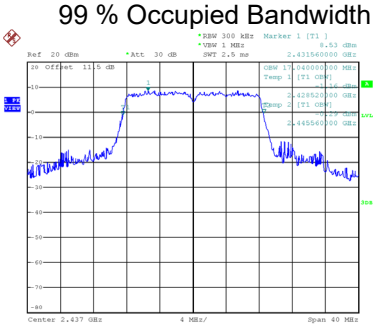


Date: 18.FEB.2025 17:37:23

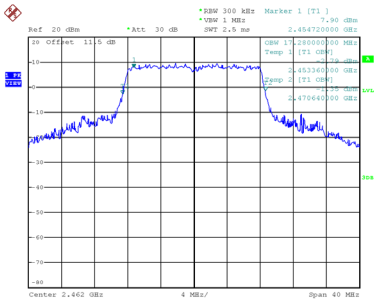
99 % Occupied Bandwidth



Date: 18.FEB.2025 17:32:00



Date: 18.FEB.2025 17:35:07

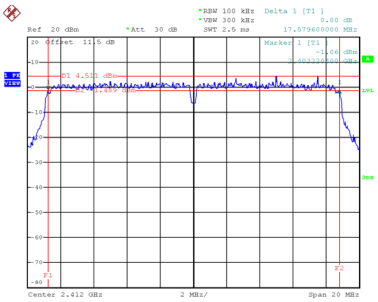


Date: 18.FEB.2025 17:37:32

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	17.580	17.840	0.5	Complies
06	2437	17.419	17.760	0.5	Complies
11	2462	17.620	17.840	0.5	Complies

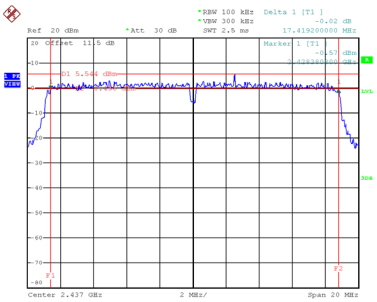
CH01



Date: 18.FEB.2025 17:42:01

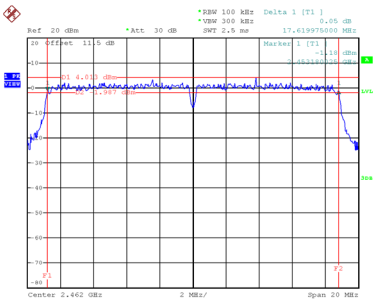
CH06

6 dB Bandwidth



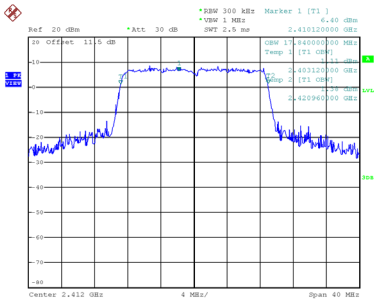
Date: 18.FEB.2025 17:47:56

CH11

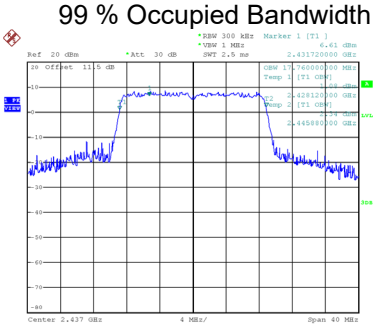


Date: 18.FEB.2025 17:49:26

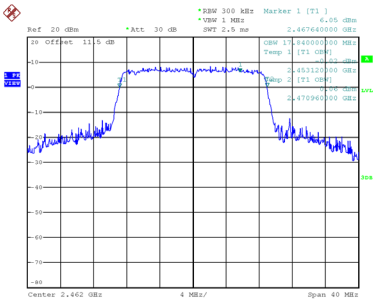
99 % Occupied Bandwidth



Date: 18.FEB.2025 17:42:10



Date: 18.FEB.2025 17:48:05



Date: 18.FEB.2025 17:49:35

APPENDIX E - MAXIMUM OUTPUT POWER

Test Mode	TX B Mode_Ant. 1	Test Date	2025/2/7

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.03	0.00	19.03	30.00	1.0000	Complies
06	2437	19.02	0.00	19.02	30.00	1.0000	Complies
11	2462	19.12	0.00	19.12	30.00	1.0000	Complies

Test Mode	TX B Mode_Ant. 2	Test Date	2025/2/7

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.75	0.00	15.75	30.00	1.0000	Complies
06	2437	15.63	0.00	15.63	30.00	1.0000	Complies
11	2462	15.66	0.00	15.66	30.00	1.0000	Complies

Test Mode	TX B Mode_Total	Test Date	2025/2/7

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	20.70	30.00	1.0000	Complies
06	2437	20.66	30.00	1.0000	Complies
11	2462	20.74	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 1	Test Date	2025/2/7

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.57	0.40	18.97	30.00	1.0000	Complies
06	2437	19.02	0.40	19.42	30.00	1.0000	Complies
11	2462	19.17	0.40	19.57	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 2	Test Date	2025/2/7

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.19	0.40	19.59	30.00	1.0000	Complies
06	2437	19.03	0.40	19.43	30.00	1.0000	Complies
11	2462	19.25	0.40	19.65	30.00	1.0000	Complies

Test Mode	TX G Mode_Total	Test Date	2025/2/7

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	22.30	30.00	1.0000	Complies
06	2437	22.44	30.00	1.0000	Complies
11	2462	22.62	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 1	Test Date	2025/2/7

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	16.88	0.00	16.88	30.00	1.0000	Complies
06	2437	19.04	0.00	19.04	30.00	1.0000	Complies
11	2462	16.76	0.00	16.76	30.00	1.0000	Complies

Test Mode	TX N(HT20) Mode_Ant. 2	Test Date	2025/2/7

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.02	0.00	17.02	30.00	1.0000	Complies
06	2437	19.05	0.00	19.05	30.00	1.0000	Complies
11	2462	16.90	0.00	16.90	30.00	1.0000	Complies

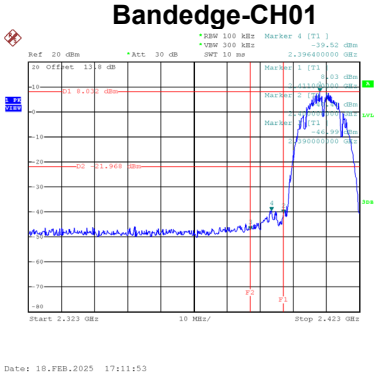
Test Mode	TX N(HT20) Mode_Total	Test Date	2025/2/7

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.96	30.00	1.0000	Complies
06	2437	22.06	30.00	1.0000	Complies
11	2462	19.84	30.00	1.0000	Complies

APPENDIX F - CONDUCTED SPURIOUS EMISSIONS

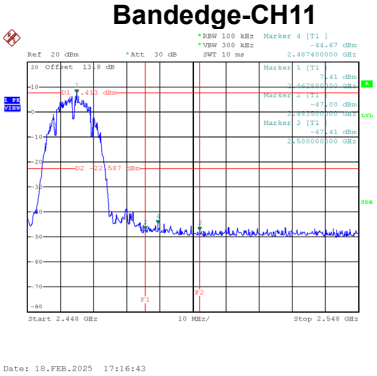
Test Mode	TX B Mode_Ant. 1

Bandedge-CH01



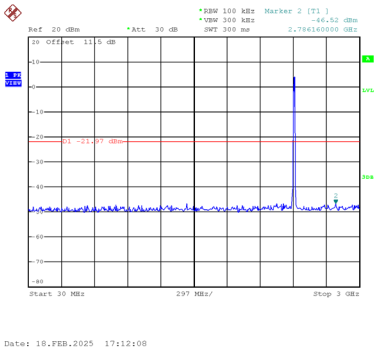
Date: 18.FEB.2025 17:11:53

Bandedge-CH11

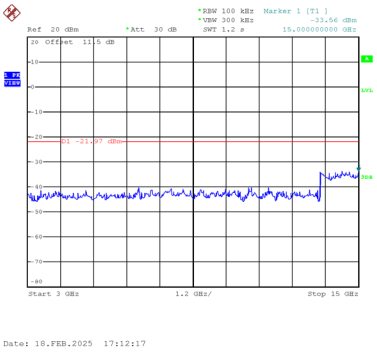


Date: 18.FEB.2025 17:16:43

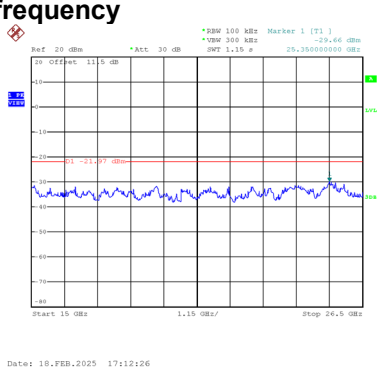
CH01 – 10th Harmonic of the fundamental frequency



Date: 18.FEB.2025 17:12:08

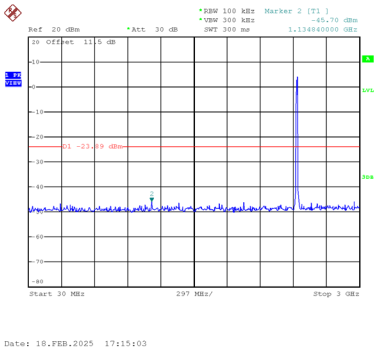


Date: 18.FEB.2025 17:12:17

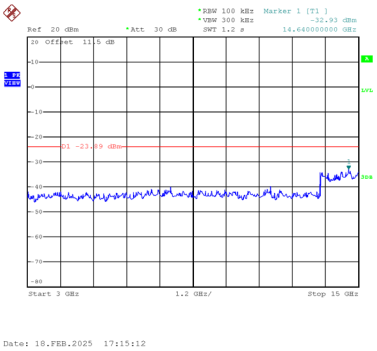


Date: 18.FEB.2025 17:12:26

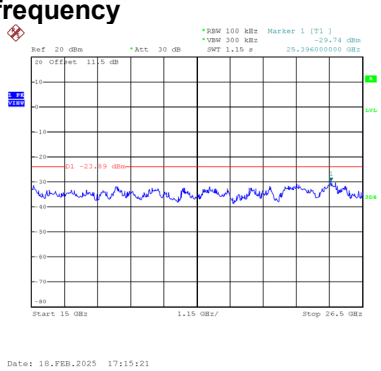
CH06 – 10th Harmonic of the fundamental frequency



Date: 18.FEB.2025 17:15:03

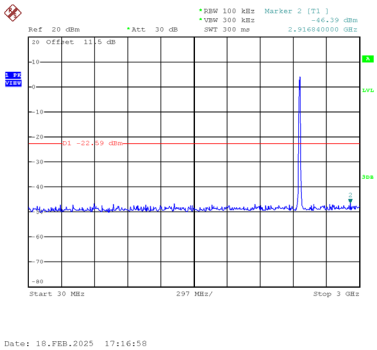


Date: 18.FEB.2025 17:15:12

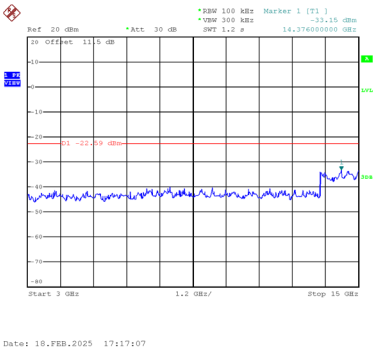


Date: 18.FEB.2025 17:15:21

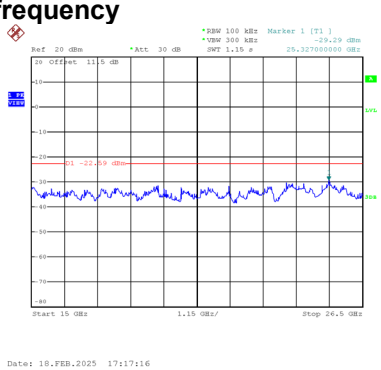
CH11 – 10th Harmonic of the fundamental frequency



Date: 18.FEB.2025 17:16:58



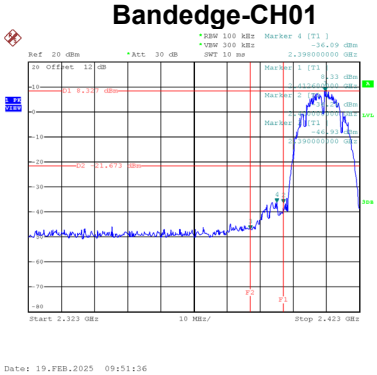
Date: 18.FEB.2025 17:17:07



Date: 18.FEB.2025 17:17:16

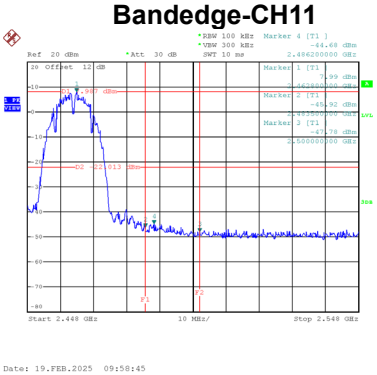
Test Mode	TX B Mode_Ant. 2

Bandedge-CH01



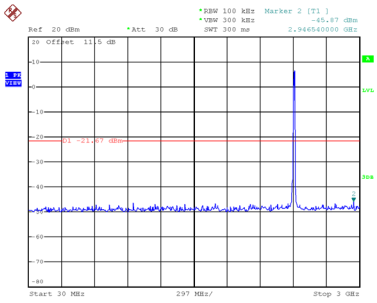
Date: 19.FEB.2025 09:51:36

Bandedge-CH11

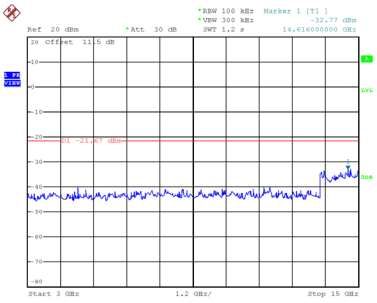


Date: 19.FEB.2025 09:58:45

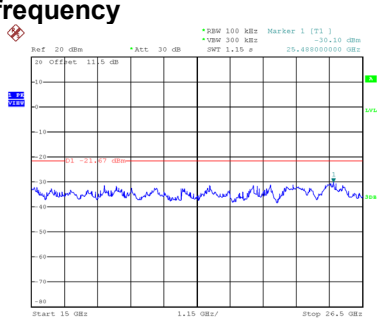
CH01 – 10th Harmonic of the fundamental frequency



Date: 19.FEB.2025 09:51:51

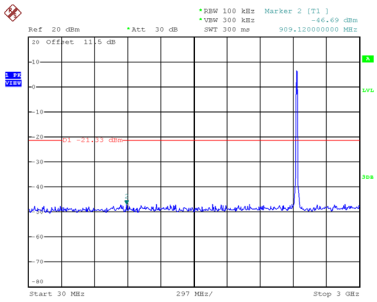


Date: 19.FEB.2025 09:52:00

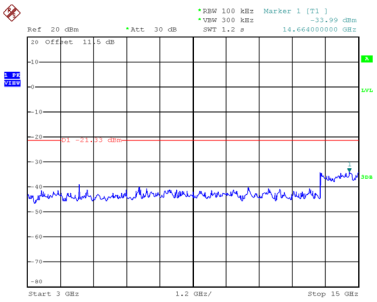


Date: 19.FEB.2025 09:52:09

CH06 – 10th Harmonic of the fundamental frequency



Date: 19.FEB.2025 09:55:04



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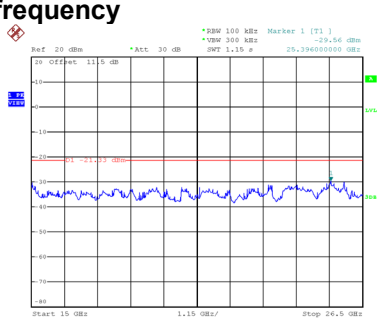
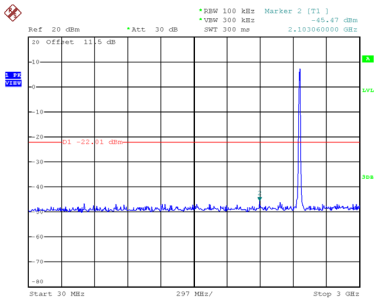
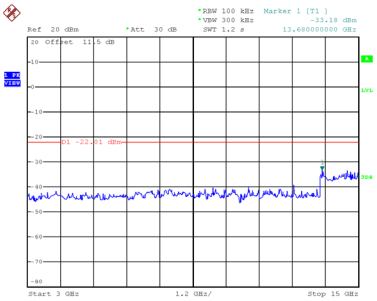


Date: 19.FEB.2025 09:55:22

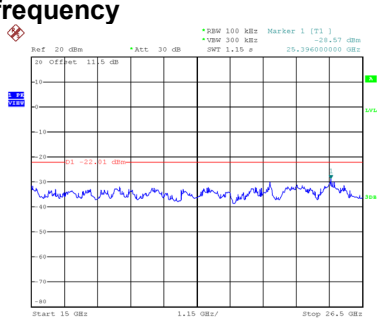
CH11 – 10th Harmonic of the fundamental frequency



Date: 19.FEB.2025 09:59:00



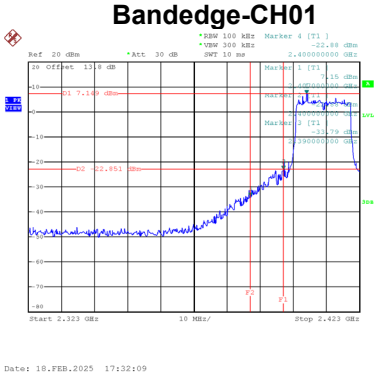
Date: 19.FEB.2025 09:59:09



Date: 19.FEB.2025 09:59:18

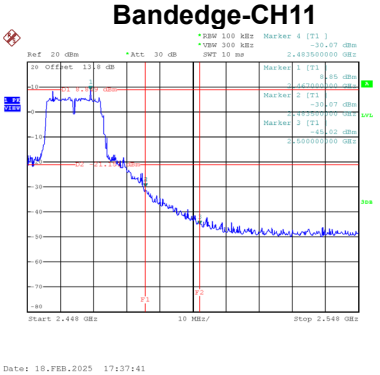
Test Mode	TX G Mode_Ant. 1

Bandedge-CH01



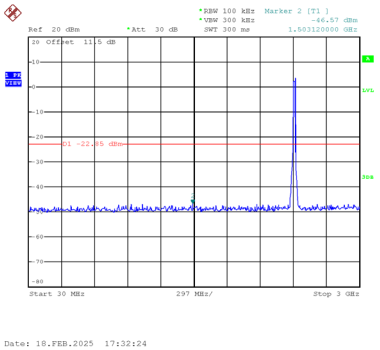
Date: 18.FEB.2025 17:32:09

Bandedge-CH11

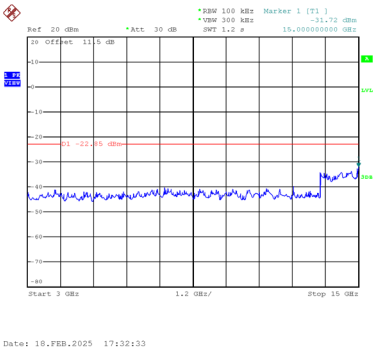


Date: 18.FEB.2025 17:37:41

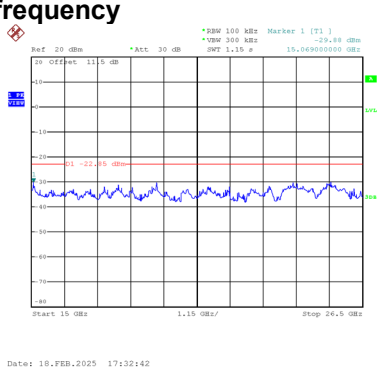
CH01 – 10th Harmonic of the fundamental frequency



Date: 18.FEB.2025 17:32:24

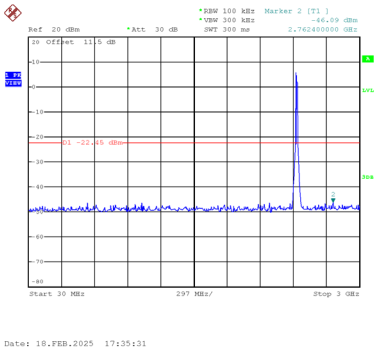


Date: 18.FEB.2025 17:32:33

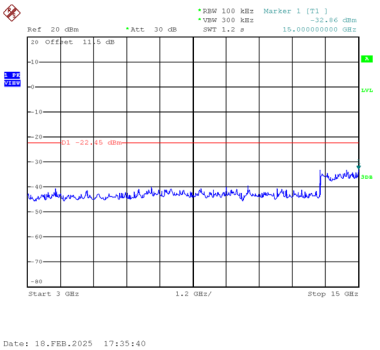


Date: 18.FEB.2025 17:32:42

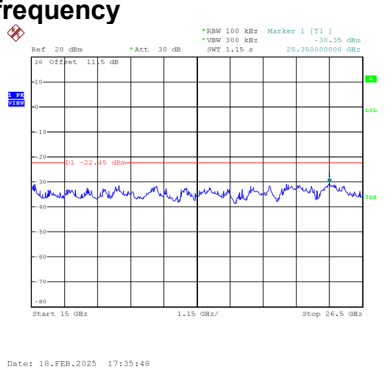
CH06 – 10th Harmonic of the fundamental frequency



Date: 18.FEB.2025 17:35:31

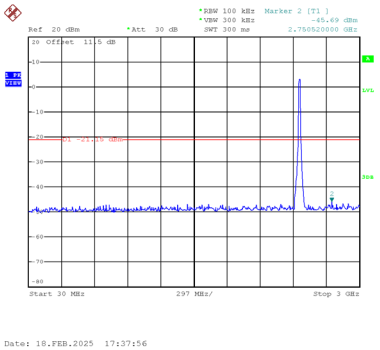


Date: 18.FEB.2025 17:35:40

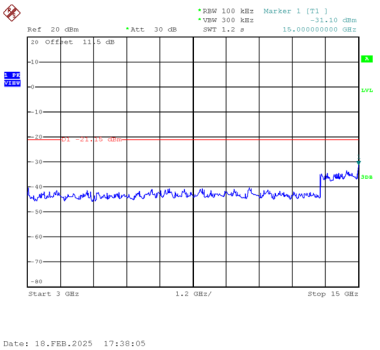


Date: 18.FEB.2025 17:35:48

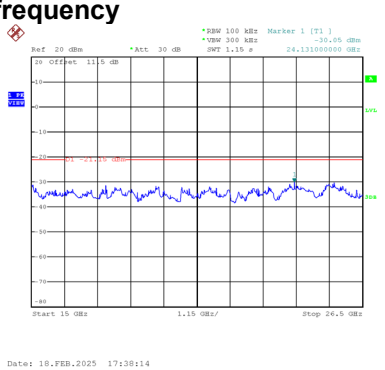
CH11 – 10th Harmonic of the fundamental frequency



Date: 18.FEB.2025 17:37:56



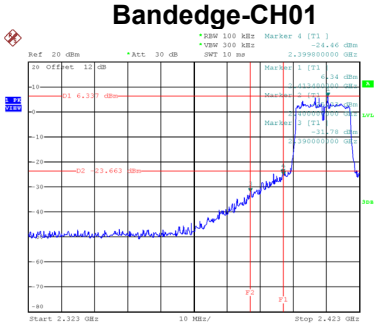
Date: 18.FEB.2025 17:38:05



Date: 18.FEB.2025 17:38:14

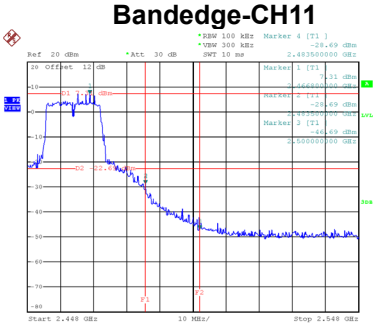
Test Mode	TX G Mode_Ant. 2

Bandedge-CH01



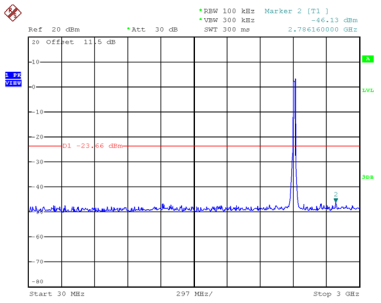
Date: 19.FEB.2025 10:21:42

Bandedge-CH11

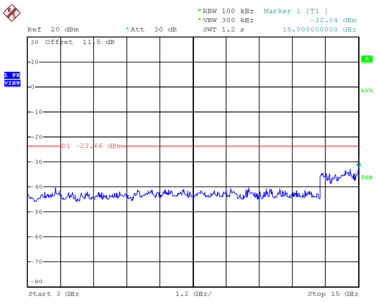


Date: 19.FEB.2025 10:26:53

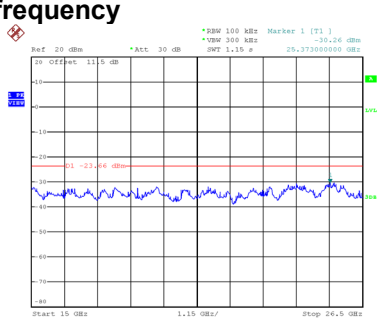
CH01 – 10th Harmonic of the fundamental frequency



Date: 19.FEB.2025 10:21:57

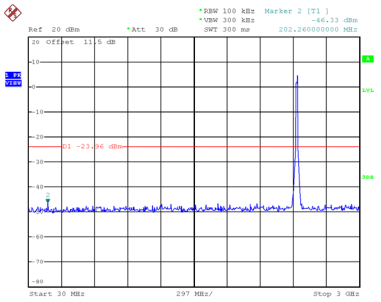


Date: 19.FEB.2025 10:22:06

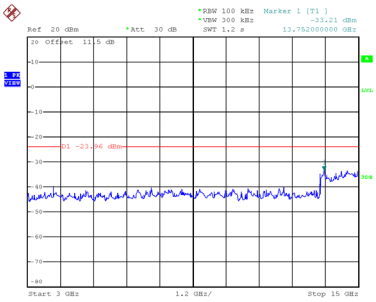


Date: 19.FEB.2025 10:22:16

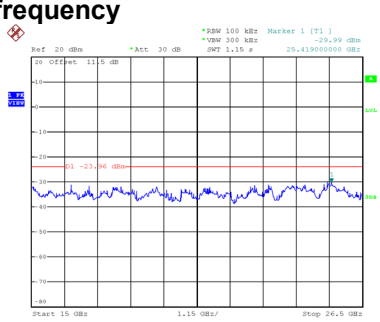
CH06 – 10th Harmonic of the fundamental frequency



Date: 19.FEB.2025 10:24:50

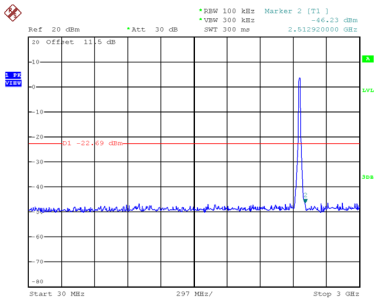


Date: 19.FEB.2025 10:24:59

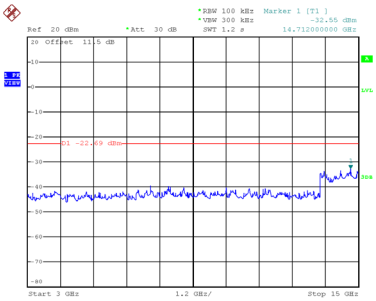


Date: 19.FEB.2025 10:25:08

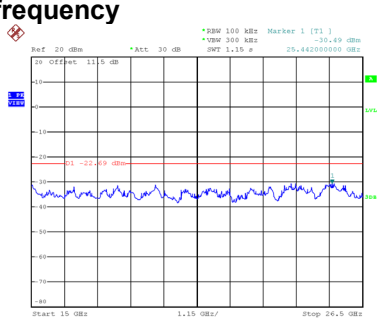
CH11 – 10th Harmonic of the fundamental frequency



Date: 19.FEB.2025 10:27:09



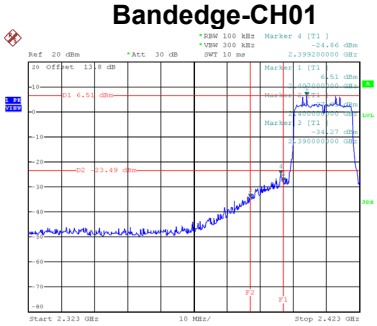
Date: 19.FEB.2025 10:27:18



Date: 19.FEB.2025 10:27:27

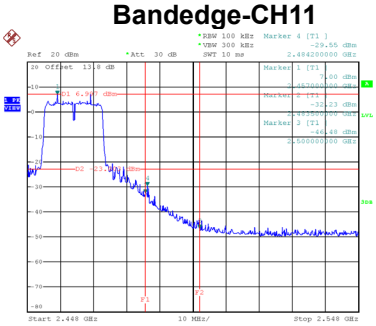
Test Mode	TX N(HT20) Mode_Ant. 1

Bandedge-CH01



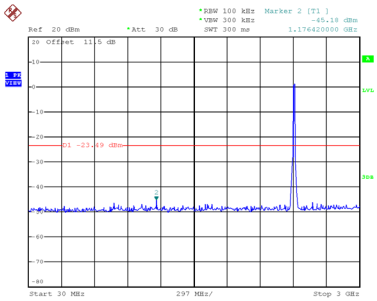
Date: 18.FEB.2025 17:46:48

Bandedge-CH11

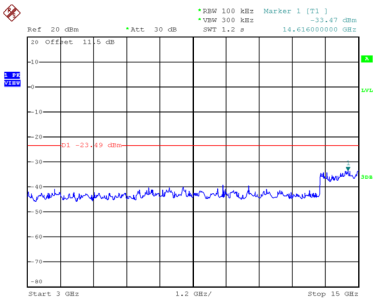


Date: 18.FEB.2025 17:49:43

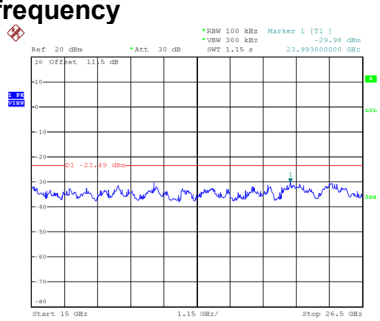
CH01 – 10th Harmonic of the fundamental frequency



Date: 18.FEB.2025 17:47:03

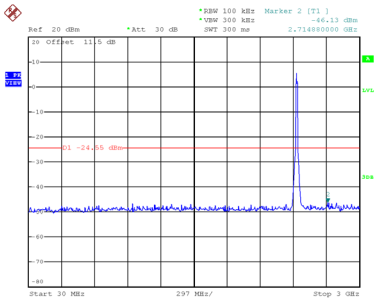


Date: 18.FEB.2025 17:47:12

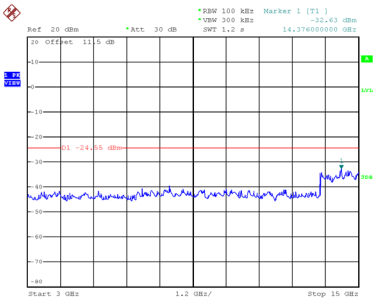


Date: 18.FEB.2025 17:47:21

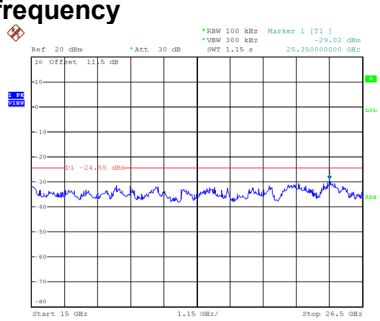
CH06 – 10th Harmonic of the fundamental frequency



Date: 18.FEB.2025 17:48:28

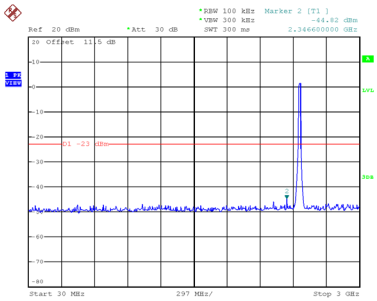


Date: 18.FEB.2025 17:48:37



Date: 18.FEB.2025 17:48:46

CH11 – 10th Harmonic of the fundamental frequency



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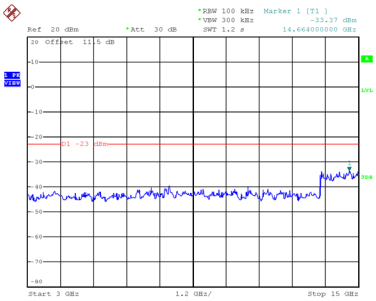
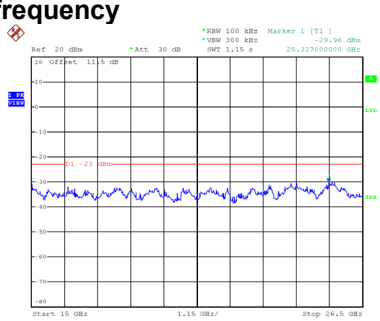


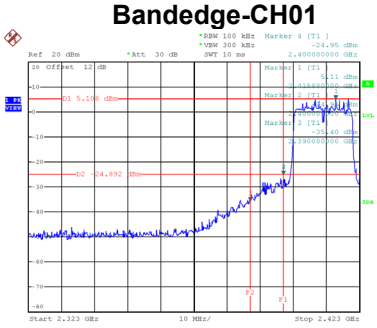
Date: 18.FEB.2025 17:50:07



Date: 18.FEB.2025 17:50:16

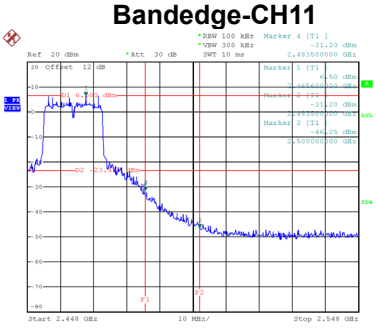
Test Mode	TX N(HT20) Mode_Ant. 2

Bandedge-CH01



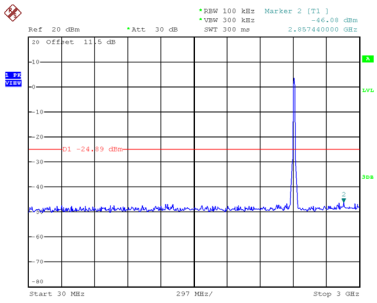
Date: 19.FEB.2025 10:33:47

Bandedge-CH11

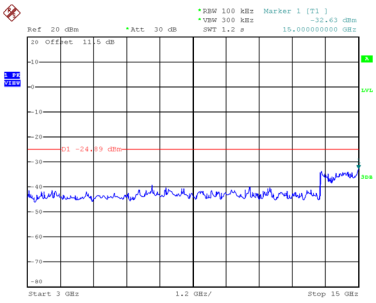


Date: 19.FEB.2025 10:38:53

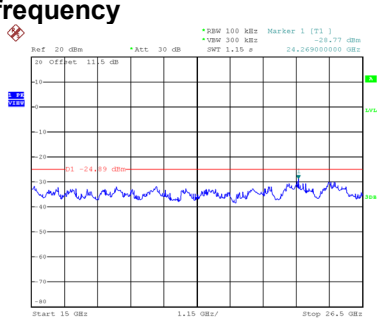
CH01 – 10th Harmonic of the fundamental frequency



Date: 19.FEB.2025 10:34:02

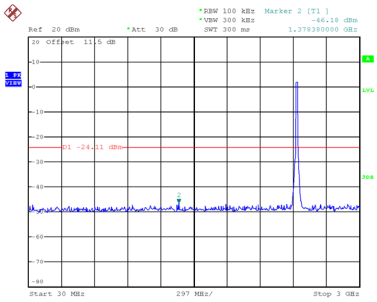


Date: 19.FEB.2025 10:34:11

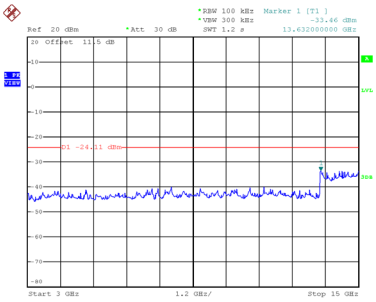


Date: 19.FEB.2025 10:34:20

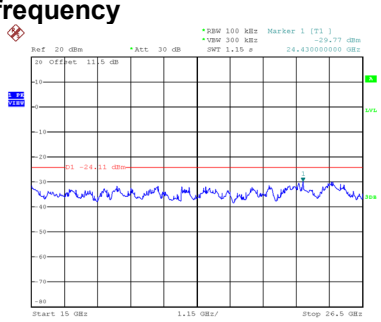
CH06 – 10th Harmonic of the fundamental frequency



Date: 19.FEB.2025 10:37:00

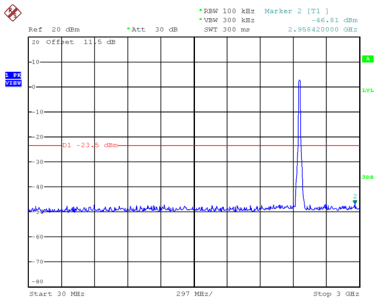


Date: 19.FEB.2025 10:37:09

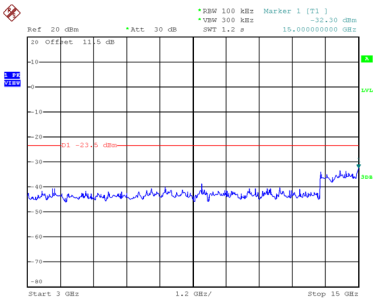


Date: 19.FEB.2025 10:37:19

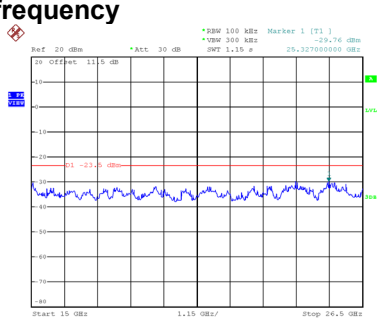
CH11 – 10th Harmonic of the fundamental frequency



Date: 19.FEB.2025 10:39:09



Date: 19.FEB.2025 10:39:18



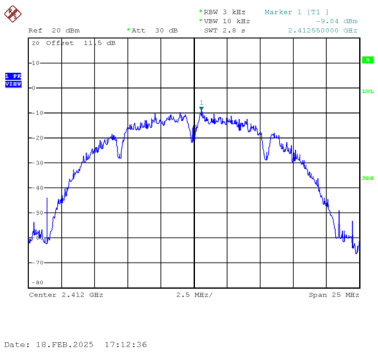
Date: 19.FEB.2025 10:39:27

APPENDIX G - POWER SPECTRAL DENSITY

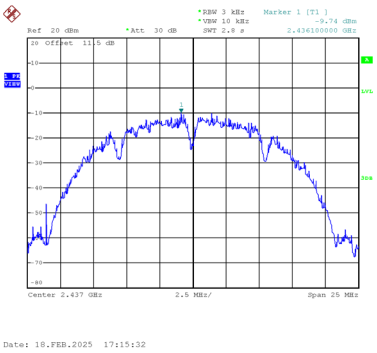
Test Mode	TX B Mode_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-9.04	8.00	Complies
06	2437	-9.74	8.00	Complies
11	2462	-9.13	8.00	Complies

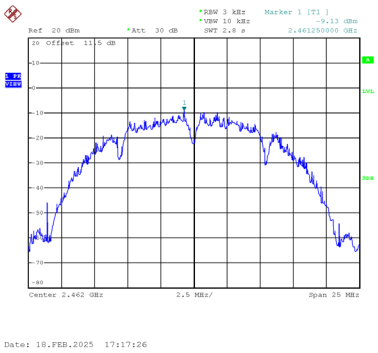
CH01



CH06



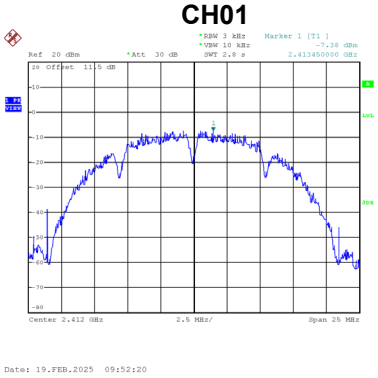
CH11



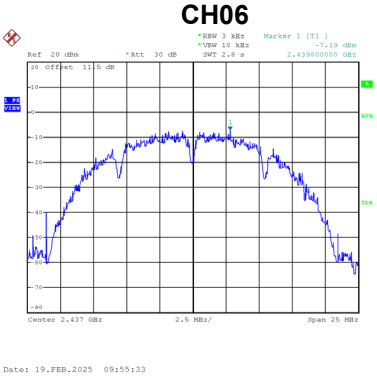
Test Mode	TX B Mode_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-7.38	8.00	Complies
06	2437	-7.19	8.00	Complies
11	2462	-7.47	8.00	Complies

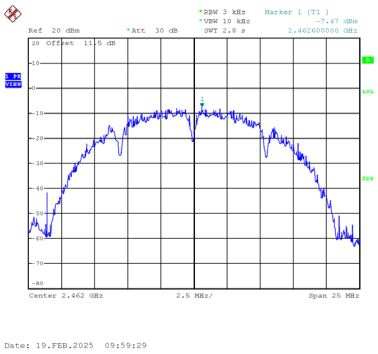
CH01



CH06



CH11



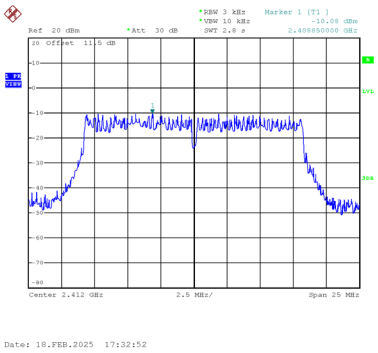
Test Mode	TX B Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-5.12	8.00	Complies
06	2437	-5.27	8.00	Complies
11	2462	-5.21	8.00	Complies

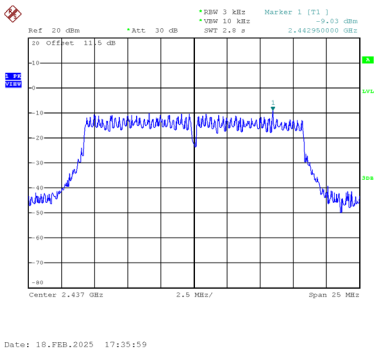
Test Mode	TX G Mode_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-10.08	8.00	Complies
06	2437	-9.03	8.00	Complies
11	2462	-6.41	8.00	Complies

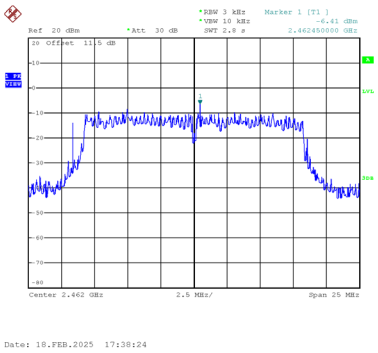
CH01



CH06



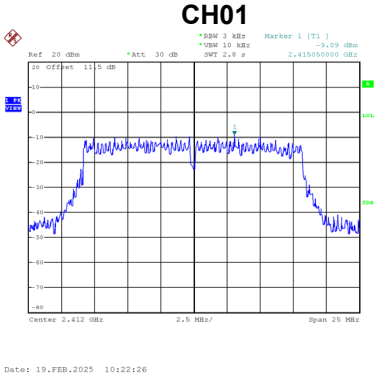
CH11



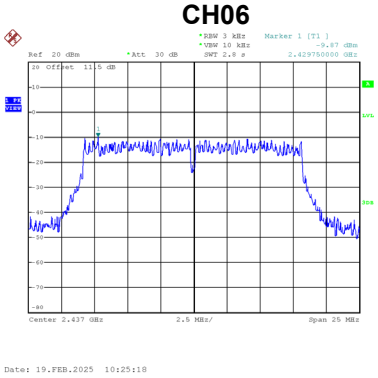
Test Mode	TX G Mode_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-9.09	8.00	Complies
06	2437	-9.87	8.00	Complies
11	2462	-8.21	8.00	Complies

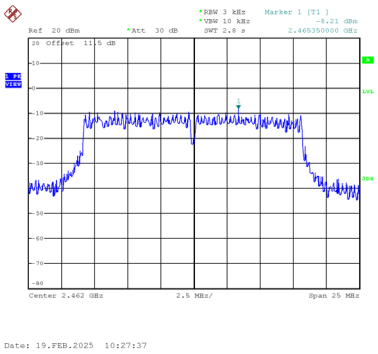
CH01



CH06



CH11



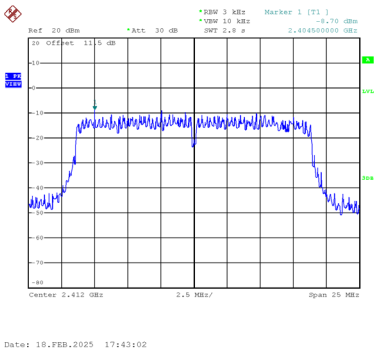
Test Mode	TX G Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-6.55	8.00	Complies
06	2437	-6.42	8.00	Complies
11	2462	-4.21	8.00	Complies

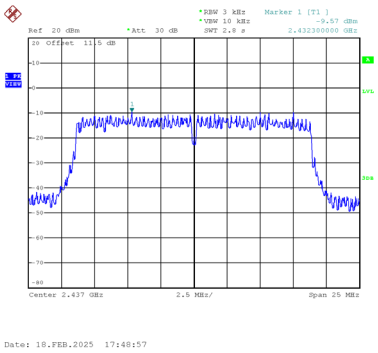
Test Mode	TX N(HT20) Mode_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-8.70	8.00	Complies
06	2437	-9.57	8.00	Complies
11	2462	-8.56	8.00	Complies

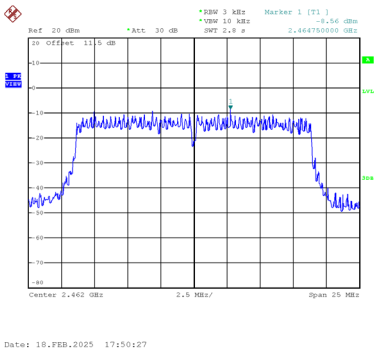
CH01



CH06



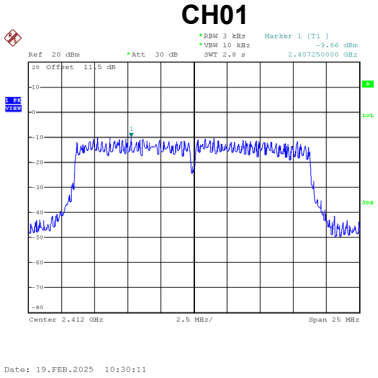
CH11



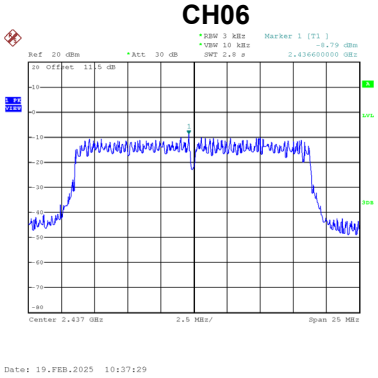
Test Mode	TX N(HT20) Mode_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-9.86	8.00	Complies
06	2437	-8.79	8.00	Complies
11	2462	-8.96	8.00	Complies

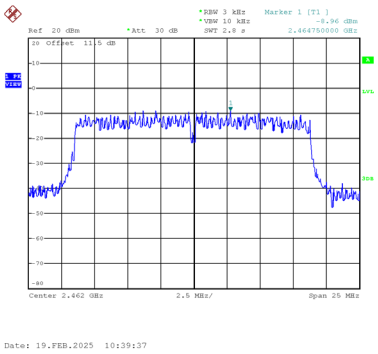
CH01



CH06



CH11



Test Mode	TX N(HT20) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-6.23	8.00	Complies
06	2437	-6.15	8.00	Complies
11	2462	-5.75	8.00	Complies

End of Test Report