



FCC Radio Test Report

FCC ID: 2BH7FC615F

This report concerns: Original Grant

Project No. : 2508C331
Equipment : Battery-Powered Floodlight Pan/Tilt Security Camera
Brand Name : tp-link
Model Name : Tapo C615F
Applicant : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618
Manufacturer : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618
Date of Receipt : Aug. 21, 2025
Date of Test : Aug. 21, 2025 ~ Sep. 04, 2025
Issued Date : Sep. 16, 2025
Test Sample : Engineering Sample No.: DG9202508213 for conducted,
 DG9202508212 others
Standard(s) : FCC CFR Title 47, Part 15, Subpart C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Dongguan)

Prepared by : Chella Zheng
 Chella Zheng

Approved by : Chay Cai
 Chay Cai

No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.
 Tel: +86-769-8318-3000 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

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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
REVISION HISTORY	6
1 . APPLICABLE STANDARDS	7
2 . SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	8
2.3 TEST ENVIRONMENT CONDITIONS	9
3 . GENERAL INFORMATION	10
3.1 GENERAL DESCRIPTION OF EUT	10
3.2 DESCRIPTION OF TEST MODES	11
3.3 PARAMETERS OF TEST SOFTWARE	12
3.4 DUTY CYCLE	13
3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	15
3.6 SUPPORT UNITS	15
3.7 CUSTOMER INFORMATION DESCRIPTION	15
4 . AC POWER LINE CONDUCTED EMISSIONS	16
4.1 LIMIT	16
4.2 TEST PROCEDURE	16
4.3 DEVIATION FROM TEST STANDARD	16
4.4 TEST SETUP	17
4.5 EUT OPERATION CONDITIONS	17
4.6 TEST RESULTS	17
5 . RADIATED EMISSIONS	18
5.1 LIMIT	18
5.2 TEST PROCEDURE	19
5.3 DEVIATION FROM TEST STANDARD	20
5.4 TEST SETUP	20
5.5 EUT OPERATION CONDITIONS	22
5.6 TEST RESULTS - 9 KHZ TO 30 MHZ	22
5.7 TEST RESULTS - 30 MHZ TO 1000 MHZ	22
5.8 TEST RESULTS - ABOVE 1000 MHZ	22
6 . BANDWIDTH	23
6.1 LIMIT	23

Table of Contents	Page
6.2 TEST PROCEDURE	23
6.3 DEVIATION FROM STANDARD	23
6.4 TEST SETUP	23
6.5 EUT OPERATION CONDITIONS	23
6.6 TEST RESULTS	23
7 . MAXIMUM OUTPUT POWER	24
7.1 LIMIT	24
7.2 TEST PROCEDURE	24
7.3 DEVIATION FROM STANDARD	24
7.4 TEST SETUP	24
7.5 EUT OPERATION CONDITIONS	24
7.6 TEST RESULTS	24
8 . CONDUCTED SPURIOUS EMISSIONS	25
8.1 LIMIT	25
8.2 TEST PROCEDURE	25
8.3 DEVIATION FROM STANDARD	26
8.4 TEST SETUP	26
8.5 EUT OPERATION CONDITIONS	26
8.6 TEST RESULTS	26
9 . POWER SPECTRAL DENSITY	27
9.1 LIMIT	27
9.2 TEST PROCEDURE	27
9.3 DEVIATION FROM STANDARD	27
9.4 TEST SETUP	27
9.5 EUT OPERATION CONDITIONS	27
9.6 TEST RESULTS	27
10 . MEASUREMENT INSTRUMENTS LIST	28
11 . EUT TEST PHOTO	30
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS	36
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ	39
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ	44
APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ	47

Table of Contents

Page

APPENDIX E - BANDWIDTH	80
APPENDIX F - MAXIMUM OUTPUT POWER	84
APPENDIX G - CONDUCTED SPURIOUS EMISSIONS	86
APPENDIX H - POWER SPECTRAL DENSITY	90

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2508C331	R00	Original Report.	Sep. 16, 2025	Valid

1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standard:

ANSI C63.10-2020

The following reference test guidance is not within the scope of accreditation of A2LA:

KDB 558074 D01 15.247 Meas Guidance v05r02

2. 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.

2.1 TEST FACILITY

1# For Radiated Emissions – Above 30 MHz test items:

The test facilities used to collect the test data in this report is at the location of Room 102 & 702, Building A3, No.9, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

2# For other test items:

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

2.2 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)
DGDLC02	CISPR	150kHz ~ 30MHz	1.82

B. Radiated emissions Measurement:

Test Site	Method	Measurement Frequency Range	U,(dB)
DGDLCB03	CISPR	9kHz ~ 30MHz	2.26

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DGGDCB01 (3m)	CISPR	30MHz ~ 200MHz	V	4.40
		30MHz ~ 200MHz	H	3.10
		200MHz ~ 1,000MHz	V	5.20
		200MHz ~ 1,000MHz	H	4.68

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB19 (3m)	CISPR	1GHz ~ 6GHz	4.48
		6GHz ~ 18GHz	3.88

Test Site	Method	Measurement Frequency Range	U,(dB)
DGGDCB01 (1m)	CISPR	18 ~ 26.5 GHz	3.56

C. Other Measurement:

Test Item	Uncertainty
Bandwidth	0.90 %
Maximum Output Power	1.3 dB
Conducted Spurious Emission	1.9 dB
Power Spectral Density	1.4 dB
Temperature	0.8 °C
Humidity	2.2 %

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

2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
AC Power Line Conducted Emissions	23°C	53%	AC 120V/60Hz	Hayden Chen	Sep. 02, 2025
Radiated Emissions -9kHz to 30 MHz	24°C	52%	AC 120V/60Hz	Hayden Chen	Sep. 03, 2025
Radiated Emissions -30MHz to 1000MHz	21°C	44%	AC 120V/60Hz	Lafu Li	Sep. 01, 2025
Radiated Emissions -Above 1000MHz	21°C	44%	AC 120V/60Hz	Lafu Li	Aug. 28, 2025
	21°C	44%	AC 120V/60Hz	Lafu Li	Sep. 04, 2025
Bandwidth	26°C	49%	AC 120V/60Hz	Jensen Zhou	Aug. 25, 2025
Maximum Output Power	22-24°C	52-54%	AC 120V/60Hz	Corey Liang	Aug. 22, 2025~ Aug. 29, 2025
Conducted Spurious Emissions	26°C	49%	AC 120V/60Hz	Jensen Zhou	Aug. 25, 2025
Power Spectral Density	26°C	49%	AC 120V/60Hz	Jensen Zhou	Aug. 25, 2025

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Battery-Powered Floodlight Pan/Tilt Security Camera
Brand Name	tp-link
Test Model	Tapo C615F
Model Name	Tapo C615F
Model Difference(s)	N/A
Hardware Version	1.0
Software Version	1.X
Power Source	1# DC Voltage supplied from AC adapter (support unit). 2# Supplied from battery. Model: CMICR18650F8 3# Supplied from solar panels.
Power Rating	1# 5V  2A, 10W 2# DC 3.7V 10400mAh 3# Max Voltage: 5.2V
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g/n: 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 72.2 Mbps
Maximum Output Power	IEEE 802.11n(HT20): 21.57 dBm (0.1435 W)

Note:

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

2. Channel List:

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. Table for Filed Antenna:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	TP-Link Systems Inc.	Tapo C615F+ANT1	Dipole	N/A	1.90
2	TP-Link Systems Inc.	6035500079	PIFA	N/A	1.42

Note:

- Smart antenna system with two transmit/receive chains, but operating in a mode where only one transmit/receive chain is used.

3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT20) Mode Channel 06
Mode 5	TX B Mode Channel 01/02/06/10/11
Mode 6	TX G Mode Channel 01/02/06/10/11
Mode 7	TX N(HT20) Mode Channel 01/02/06/10/11

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 4	TX N(HT20) Mode Channel 06

Radiated emissions test - Below 1GHz & Above 18 GHz	
Final Test Mode	Description
Mode 4	TX N(HT20) Mode Channel 06

Radiated emissions test - 1 GHz - 18 GHz	
Mode 5	TX B Mode Channel 01/02/06/10/11
Mode 6	TX G Mode Channel 01/02/06/10/11
Mode 7	TX N(HT20) Mode Channel 01/02/06/10/11

Conducted test	
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11

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 AC power line conducted emissions and radiated emission below 1 GHz test, the IEEE 802.11n(HT20) Mode Channel 06 is found to be the worst case and recorded.
- (3) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (4) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.
- (5) Both Ant. 1 and Ant. 2 have been evaluated and tested. the worst case is Ant.1 and recorded in this report.
- (6) For radiated emission 1 GHz - 18GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical and recorded.

3.3 PARAMETERS OF TEST SOFTWARE

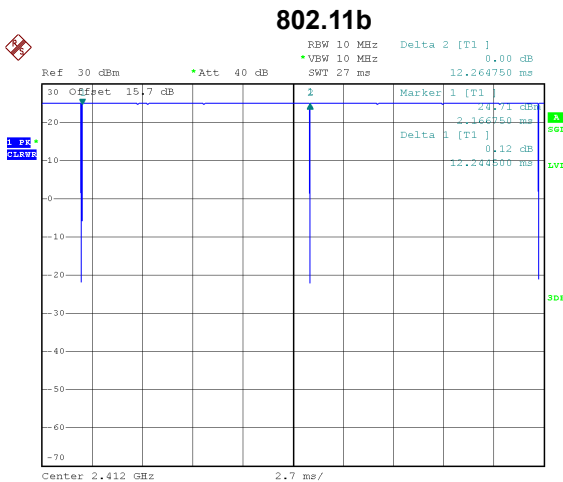
Test Software Version	AmebaDPlus_MP_tool_1V6		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	114	121	117
IEEE 802.11g	101	120	116
IEEE 802.11n(HT20)	99	124	107

3.4 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.

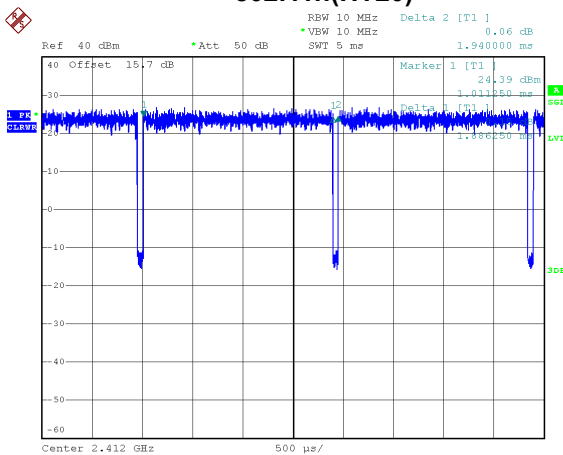


Date: 25.AUG.2025 17:25:03

Duty cycle = 12.245 ms / 12.265 ms = 99.84%

Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00 \text{ dB}$

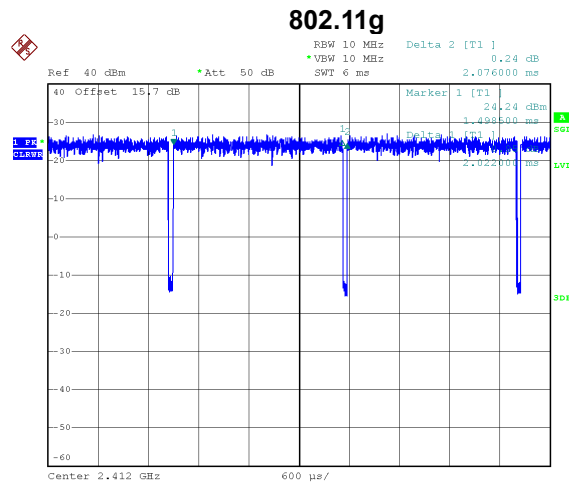
802.11n(HT20)



Date: 25.AUG.2025 17:26:55

Duty cycle = 1.886 ms / 1.940 ms = 97.22%

Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.12 \text{ dB}$



Date: 25.AUG.2025 17:26:36

Duty cycle = 2.022 ms / 2.076 ms = 97.40%

Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.11 \text{ dB}$

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:

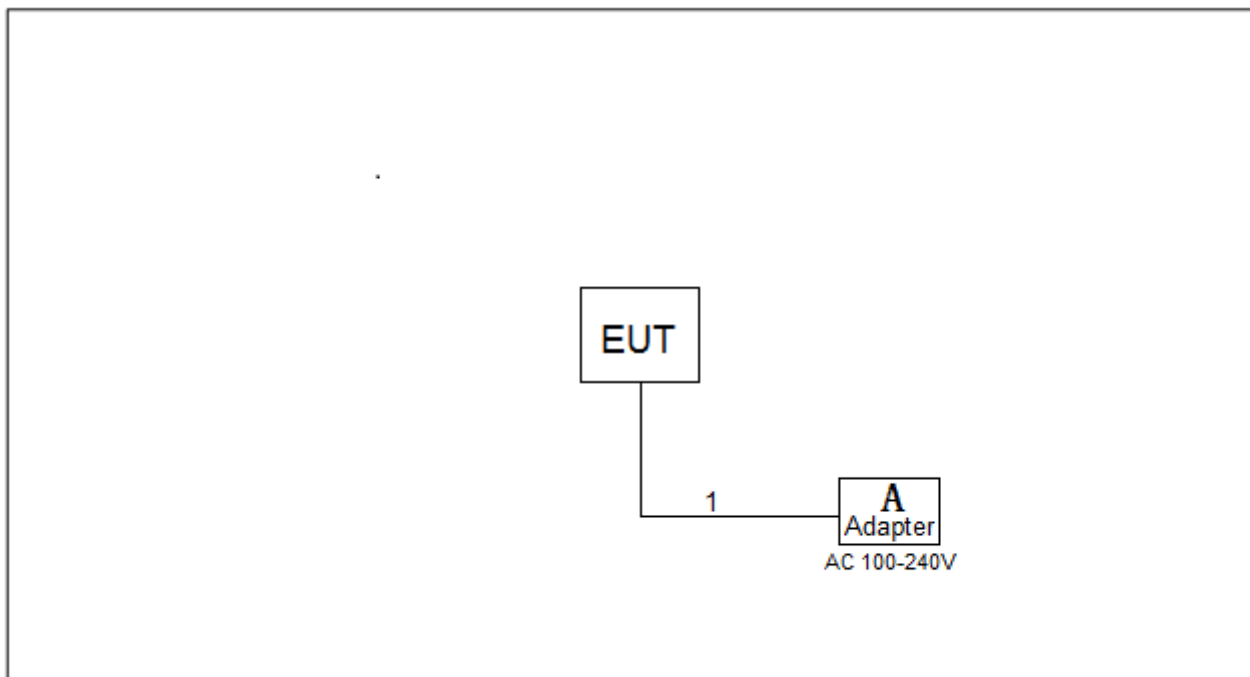
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 495 Hz.

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 530 Hz.

(Remark: The video bandwidth of the spectrum analyzer was set to 1kHz during the test.)

3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Adapter	DVE	DSA-10PF06-05FUS 050200	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.2m

3.7 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain is provided by the manufacturer.
- 2) Except for AC power line conducted emissions and radiated emissions, the results of all test items include cable losses. Part of the cable losses (0.5dB) are provided by the manufacturer, while the other parts of the cable losses are provided by the testing laboratory.

4. AC POWER LINE CONDUCTED EMISSIONS

4.1 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

4.2 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.

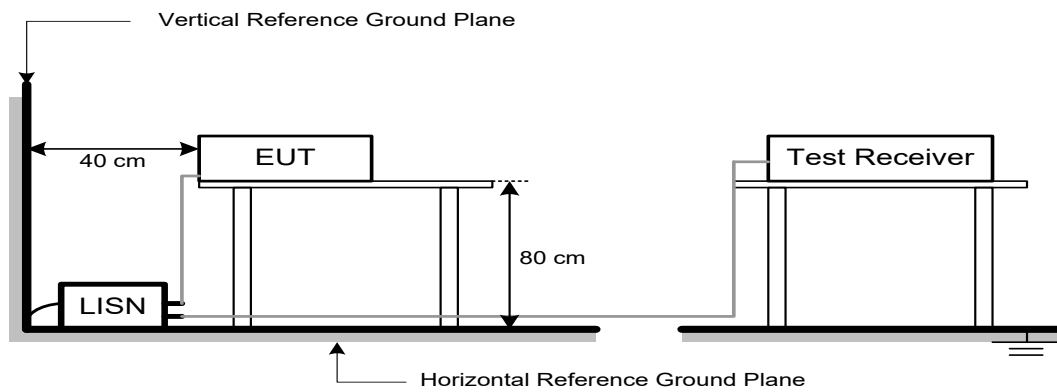
The following table is the setting of the receiver:

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

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULTS

Please refer to the APPENDIX A.

5. RADIATED EMISSIONS

5.1 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
- (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.

5.2 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 1m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- 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

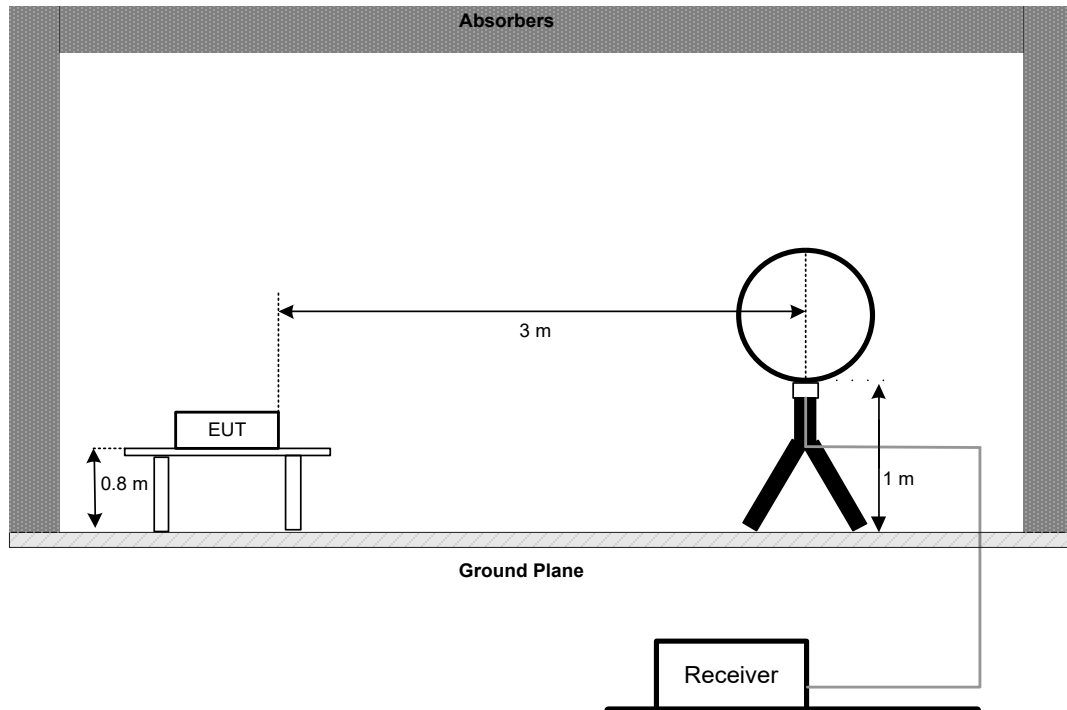
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

5.3 DEVIATION FROM TEST STANDARD

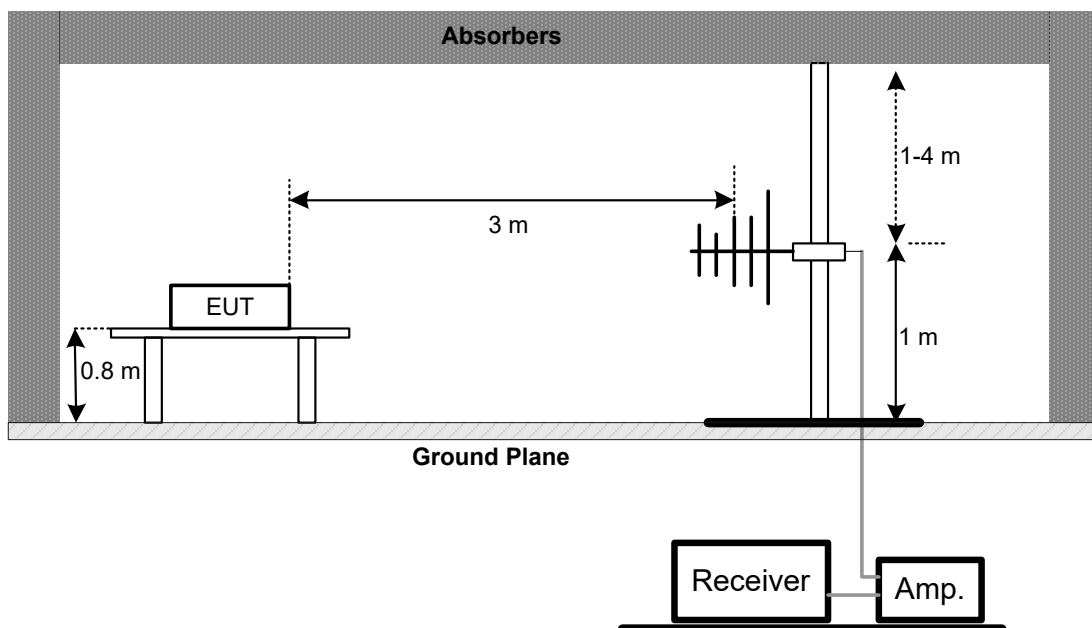
No deviation.

5.4 TEST SETUP

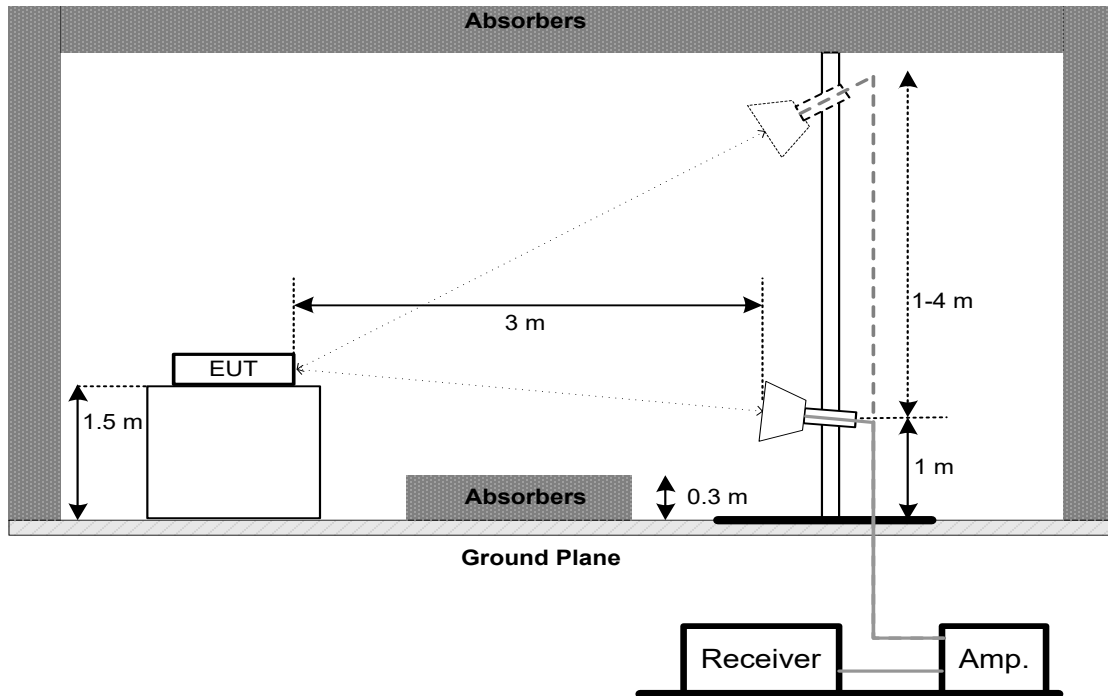
9 kHz to 30 MHz



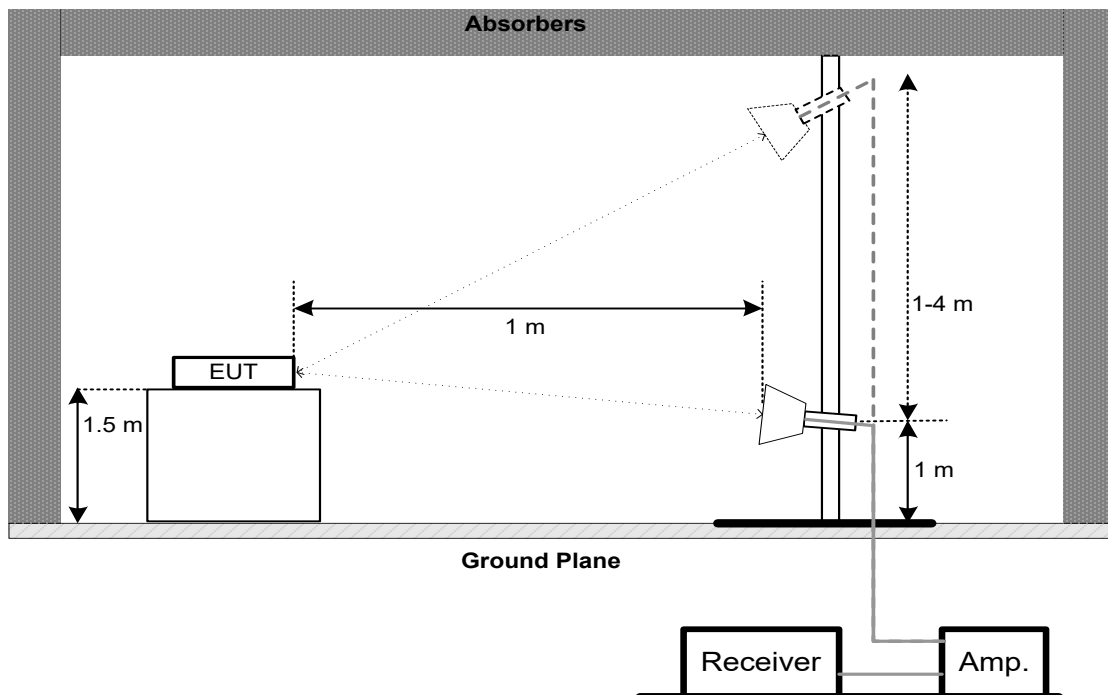
30 MHz to 1 GHz



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



Harmonic(18 GHz to 26.5 GHz)



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

5.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

5.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

Remark:

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

6. BANDWIDTH

6.1 LIMIT

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

6.2 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

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. MAXIMUM OUTPUT POWER

7.1 LIMIT

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

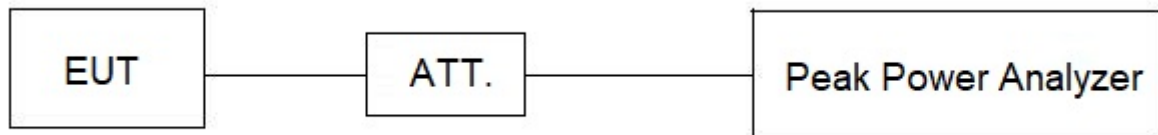
7.2 TEST PROCEDURE

- The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.2.3.1 (for AVG power) of ANSI C63.10-2020 & ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 .

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. CONDUCTED SPURIOUS EMISSIONS

8.1 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.

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:

For Reference Level:

Spectrum Parameters	Setting
Span	≥ 1.5 times the bandwidth.
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For Emission Level - Band edge:

Spectrum Parameters	Setting
Start Frequency	2300 MHz
Stop Frequency	2690 MHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For Emission Level - Harmonic:

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

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. POWER SPECTRAL DENSITY

9.1 LIMIT

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

9.2 TEST PROCEDURE

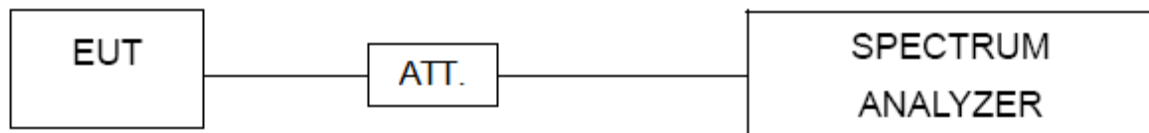
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span	1.5 times the DTS bandwidth
RBW	3 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 TEST RESULTS

Please refer to the APPENDIX H.

10. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI TEST RECEIVER	R&S	ESCI	100382	Dec. 06, 2025
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Dec. 06, 2025
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
4	Cable	N/A	SFT205-NMNM-9M -001	9M	Nov. 11, 2025
5	643 Shield Room	ETS	6*4*3	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60	00025	Mar. 01, 2026
2	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
3	Cable	RegalWay	LMR400-NMNM-6 m	N/A	Apr. 26, 2026
4	Cable	RegalWay	LMR400-NMRANM -3.5m	N/A	Apr. 26, 2026
5	966 Chamber room	CM	9*6*6	N/A	May 09, 2026

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01381	Sep. 26, 2025
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Sep. 26, 2025
3	Preamplifier	EMC INSTRUMENT	EMC001330	980863	May 28, 2026
4	Cable	EMC INSTRUMENT	EMCCFD400-NM-N M-2500	N/A	Jun. 12, 2026
5	Cable	RegalWay	LMR400-NMNM-7 m	N/A	Jun. 12, 2026
6	Cable	EMC INSTRUMENT	EMCCFD400-NM-N M-3000	N/A	Jun. 12, 2026
7	Positioning Controller	MF	MF-7802	N/A	N/A
8	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
9	MXE EMI Receiver	KEYSIGHT	N9038B	MY62210123	Oct. 29, 2025
10	966 Chamber room	Tai He	9*6*6 (NSA&VSWR)	N/A	May 18, 2026

Radiated Emissions - 1 GHz - 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Positioning Controller	MF	MF-7802	N/A	N/A
2	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
3	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63430227	Oct. 29, 2025
4	Cable	EMC INSTRUMENT	EMC104-SM-SM-1 0000	N/A	Jun. 12, 2026
5	Cable	EMC INSTRUMENT	EMC104-SM-SM-3 000	N/A	Jun. 12, 2026
6	Cable	EMC INSTRUMENT	EMC104-SM-SM-1 000	N/A	Jun. 12, 2026
7	966 Chamber room	Tai He	9*6*6(NSA&VSWR)	N/A	May 18, 2026
8	Double Ridged Broadband Horn Antenna	RF SPIN	DRH18-E	210106A18E	Jul. 15, 2026
9	Preamplifier	EMC INSTRUMENT	EMC118A45SE	981001	May 28, 2026
10	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
11	Filter	COM-MW	ZHPF6-M3000-180 00-174	N/A	Oct. 29, 2025

Radiated Emissions - Above 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-2M	N/A	Jan. 07, 2026
2	Cable	RegalWay	RWLP50-2.6A-3.5 M2.92MMRA-6M	N/A	Jan. 07, 2026
3	Preamplifier	EMC INSTRUMENT	EMC184045SE	980793	Jan. 10, 2026
4	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	0 1046	Jul. 18, 2026
5	Positioning Controller	MF	MF-7802	N/A	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63430227	Oct.29,2025
8	966 Chamber room	Tai He	9*6*6(NSA&VSWR)	N/A	May 18, 2026

Bandwidth & Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	May 17, 2026
2	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	May 17, 2026
3	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	N/A

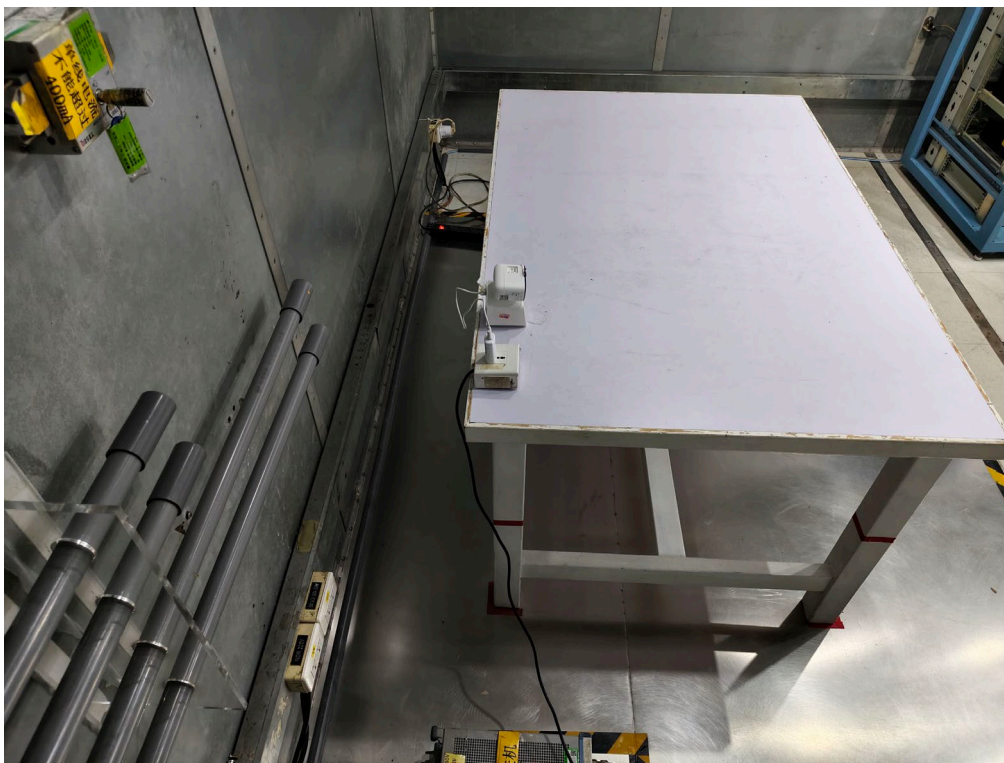
Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	May 17, 2026
2	Wideband power sensor	Keysight	N1923A	MY58310004	May 17, 2026
3	Isolation attenuator	Z-Link	ASMA-10-18-2W	N/A	N/A

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

All calibration period of equipment list is one year.

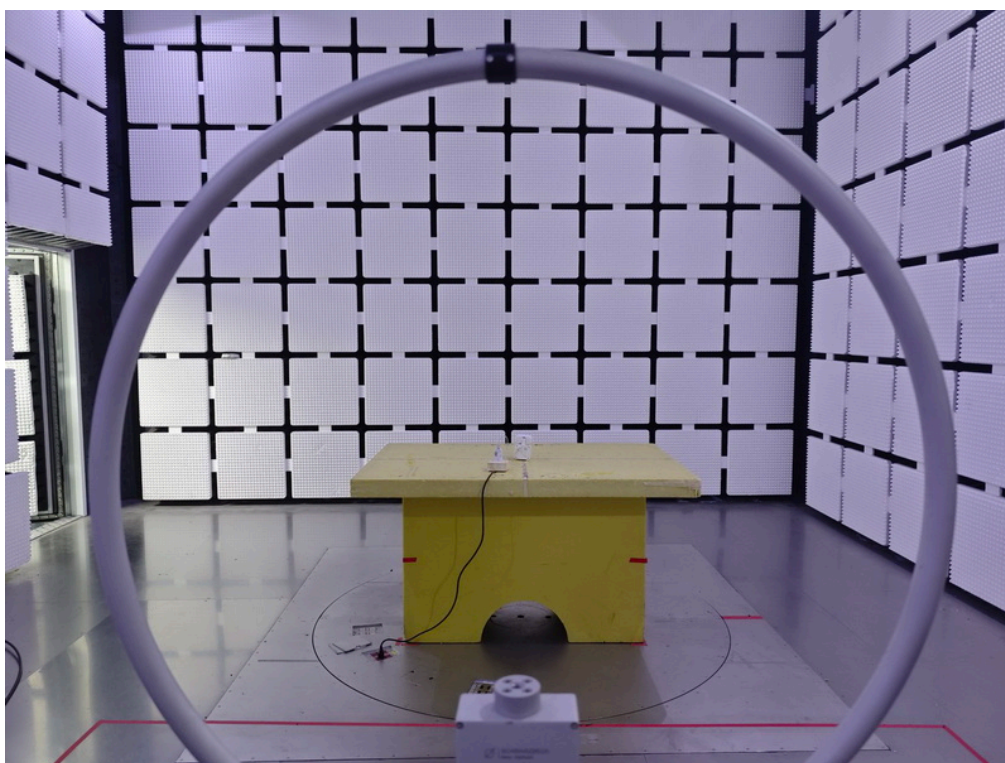
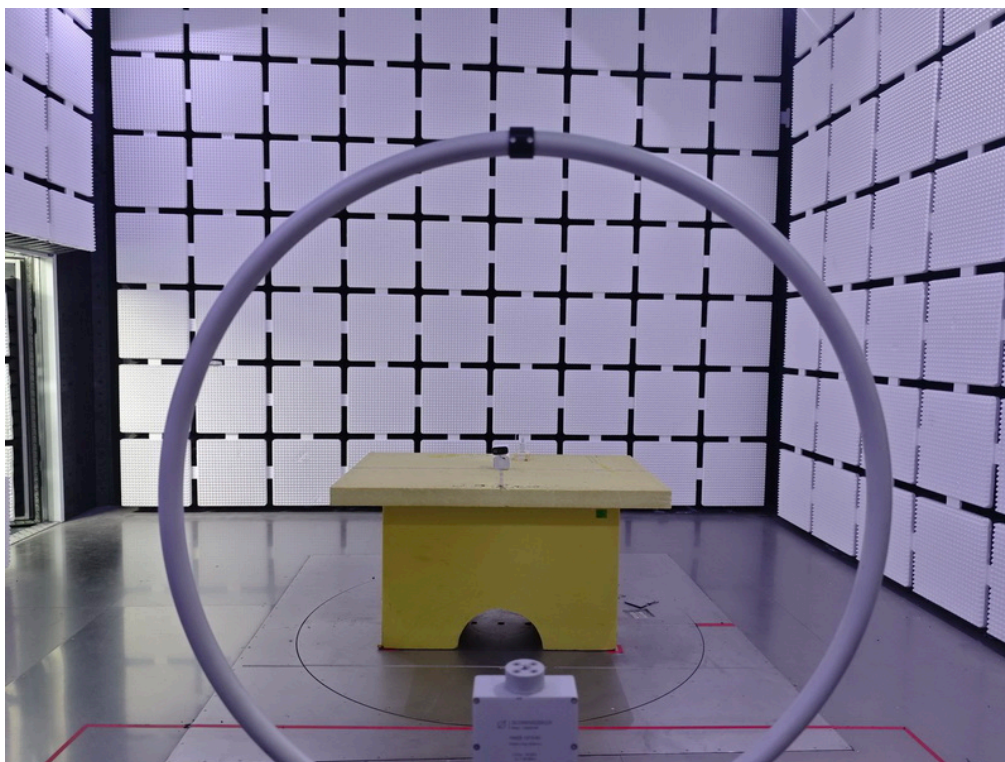
11. EUT TEST PHOTO

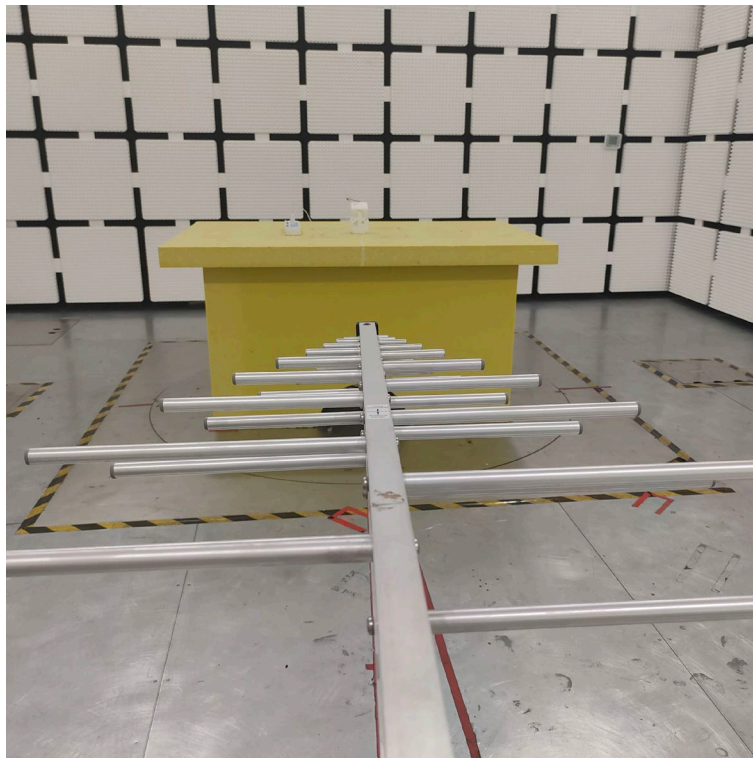
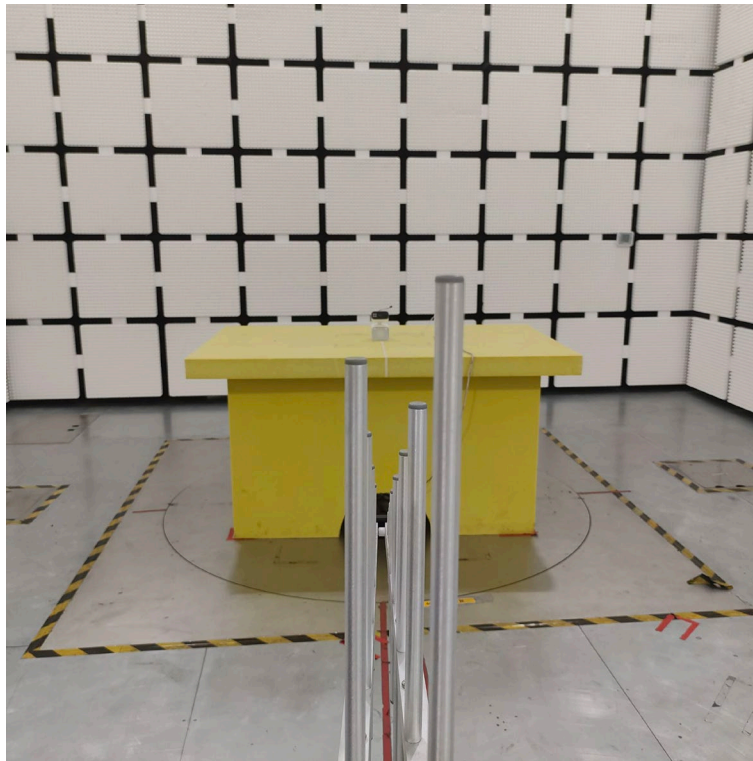
AC Power Line Conducted Emissions Test Photos



Radiated Emissions Test Photos

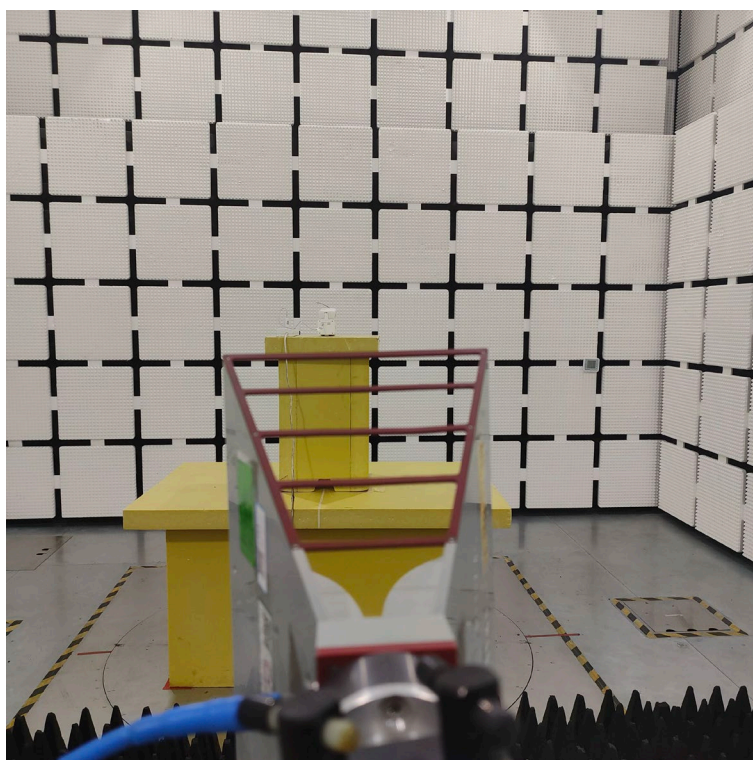
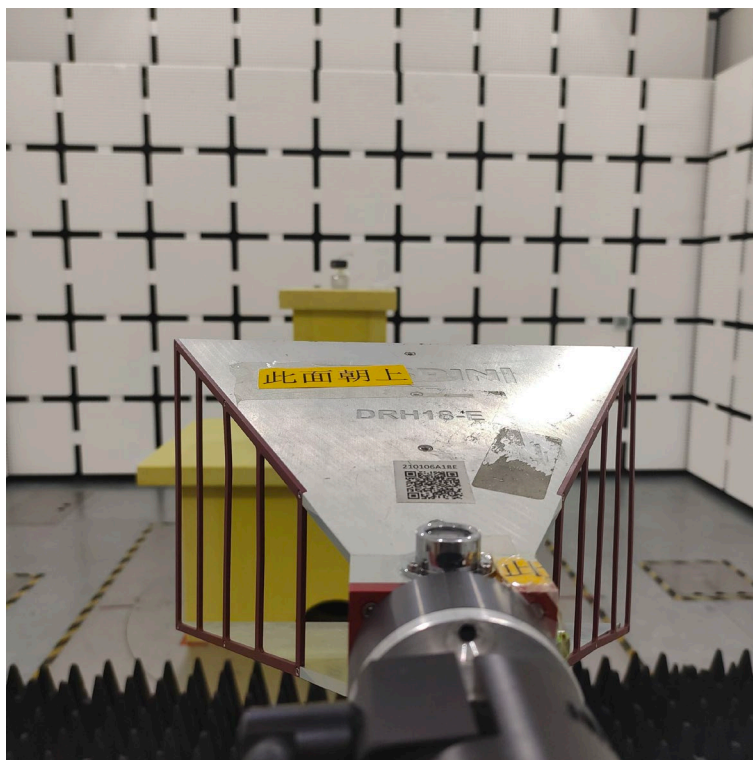
9 kHz to 30 MHz

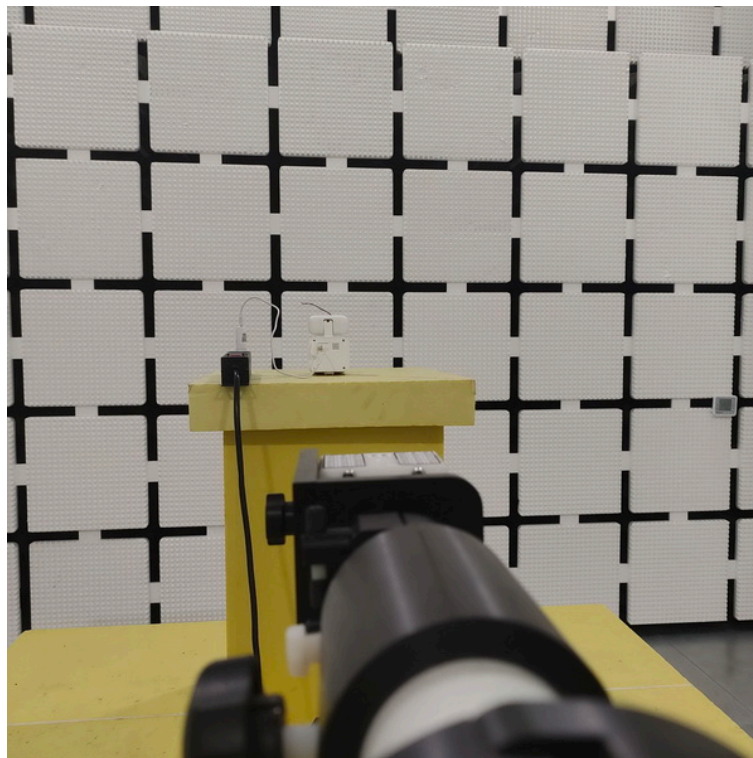
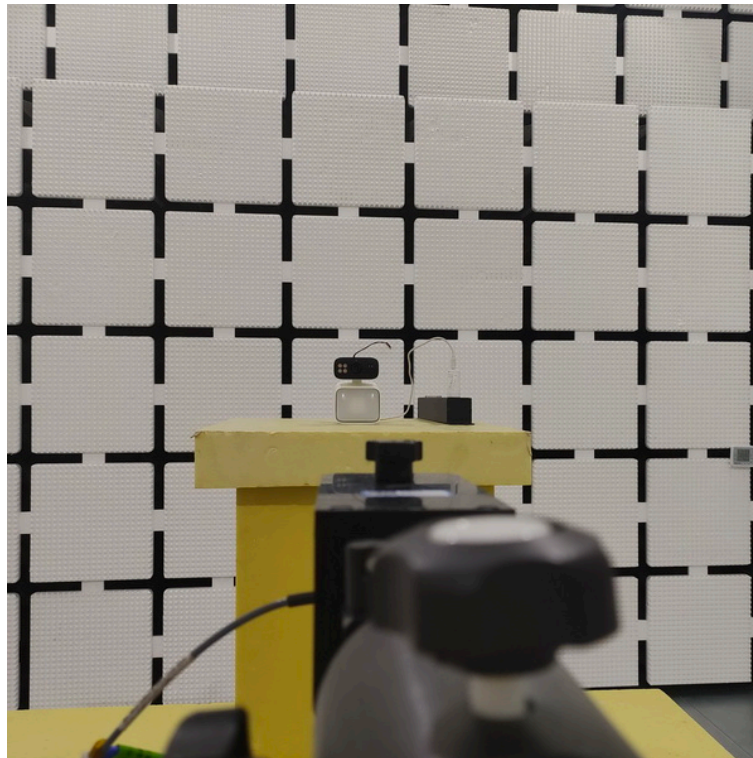


Radiated Emissions Test Photos**30 MHz to 1 GHz**

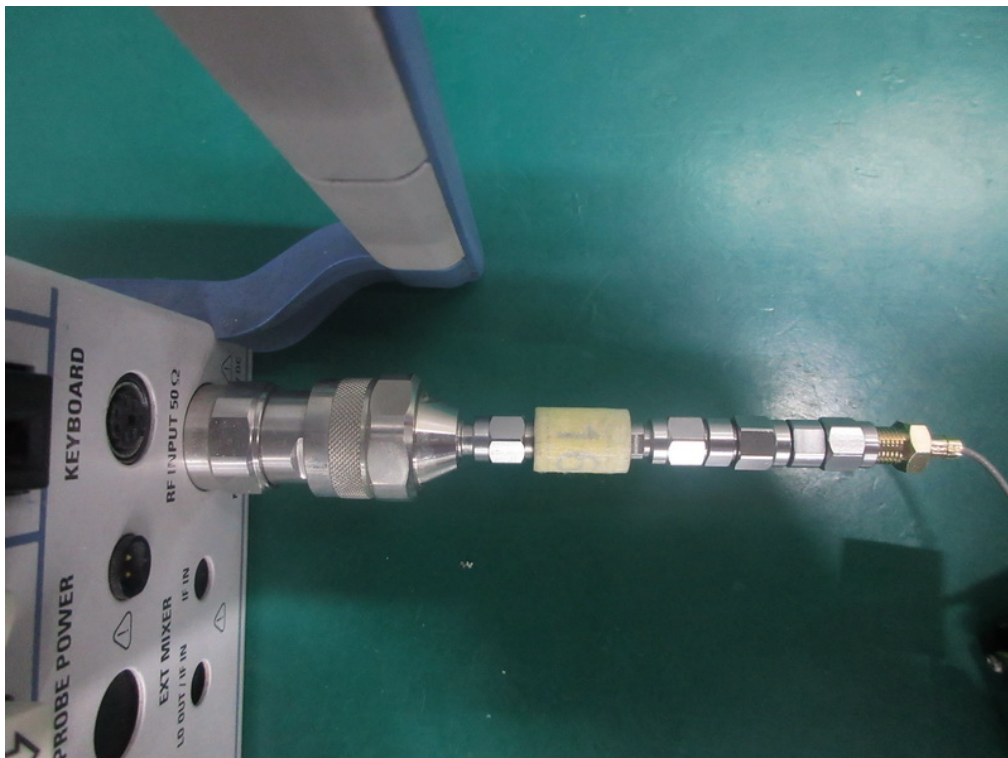
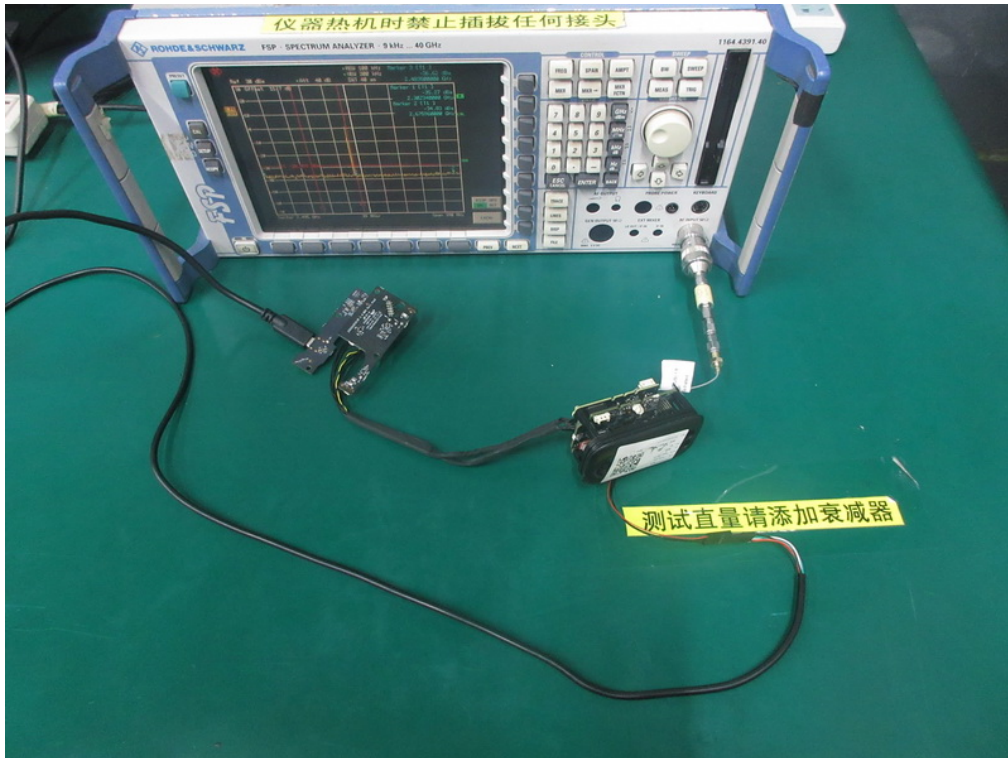
Radiated Emissions Test Photos

Band edge & Harmonic(1 GHz to 18 GHz)



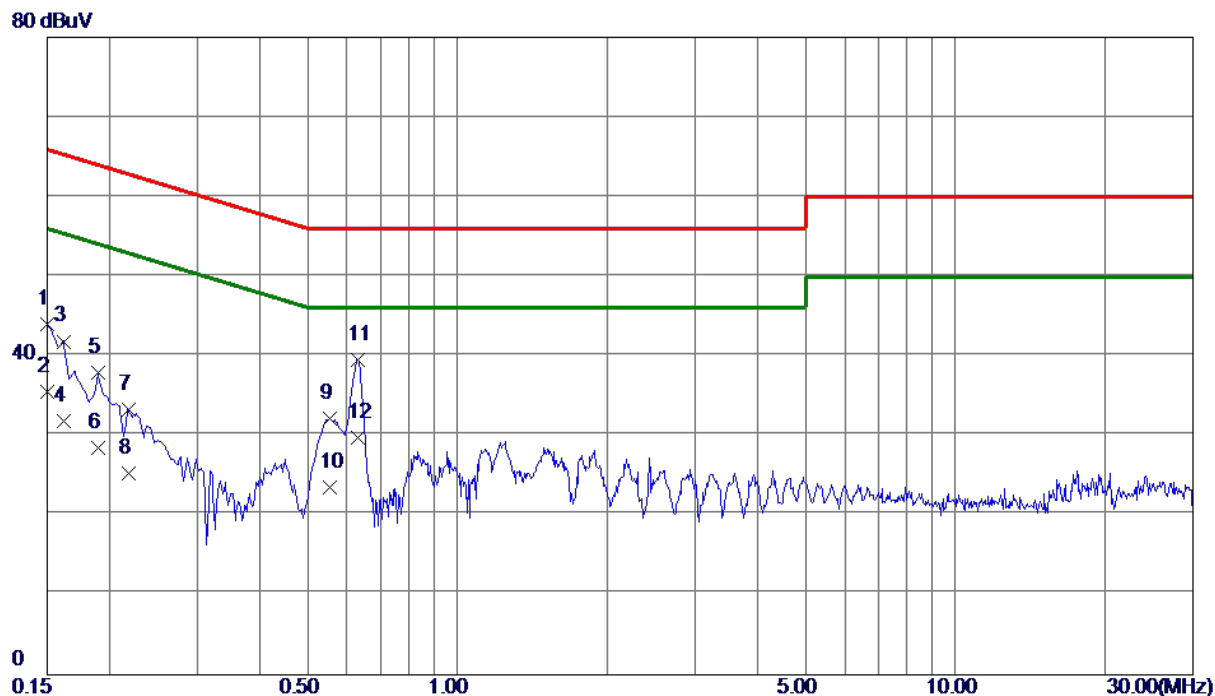
Radiated Emissions Test Photos**Harmonic(18 GHz to 26.5 GHz)**

Conducted Test Photos



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX N(HT20) Mode Channel 06	Phase	Line
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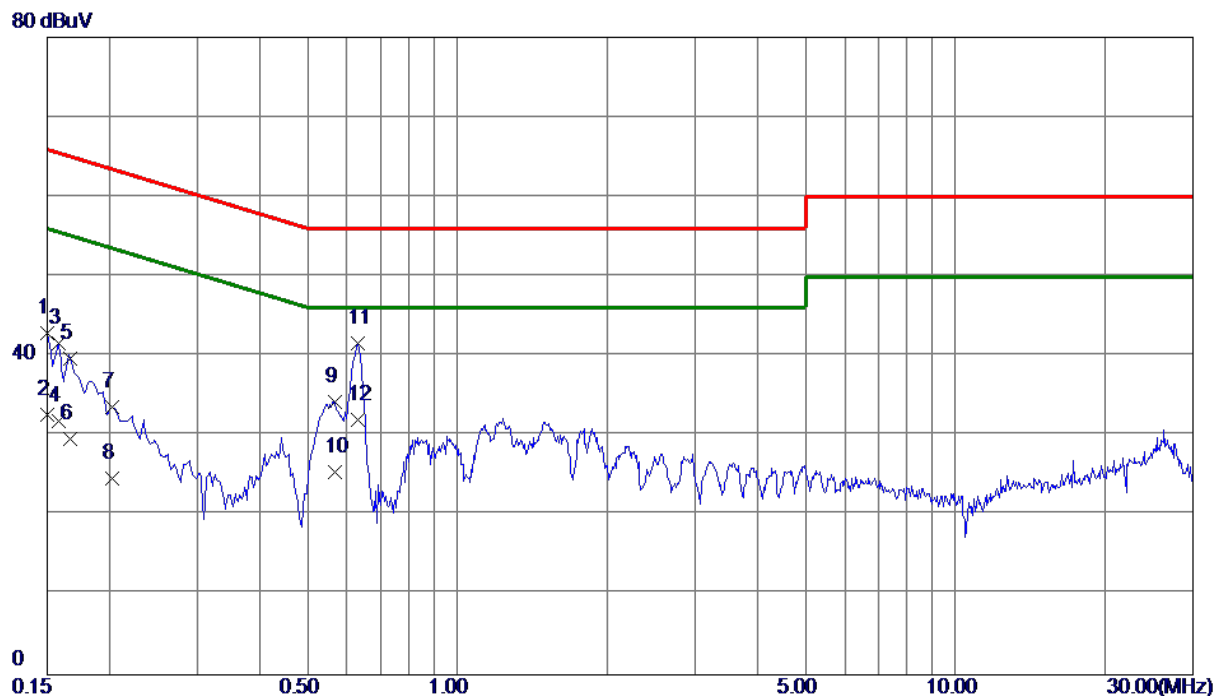


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	34.11	9.90	44.01	66.00	-21.99	QP	
2	0.1500	25.59	9.90	35.49	56.00	-20.51	AVG	
3	0.1620	31.93	9.91	41.84	65.36	-23.52	QP	
4	0.1620	21.91	9.91	31.82	55.36	-23.54	AVG	
5	0.1900	27.99	9.91	37.90	64.04	-26.14	QP	
6	0.1900	18.60	9.91	28.51	54.04	-25.53	AVG	
7	0.2180	23.32	9.90	33.22	62.89	-29.67	QP	
8	0.2180	15.40	9.90	25.30	52.89	-27.59	AVG	
9	0.5540	22.12	9.97	32.09	56.00	-23.91	QP	
10	0.5540	13.51	9.97	23.48	46.00	-22.52	AVG	
11	0.6300	29.59	9.98	39.57	56.00	-16.43	QP	
12 *	0.6300	19.80	9.98	29.78	46.00	-16.22	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode Channel 06	Phase	Neutral
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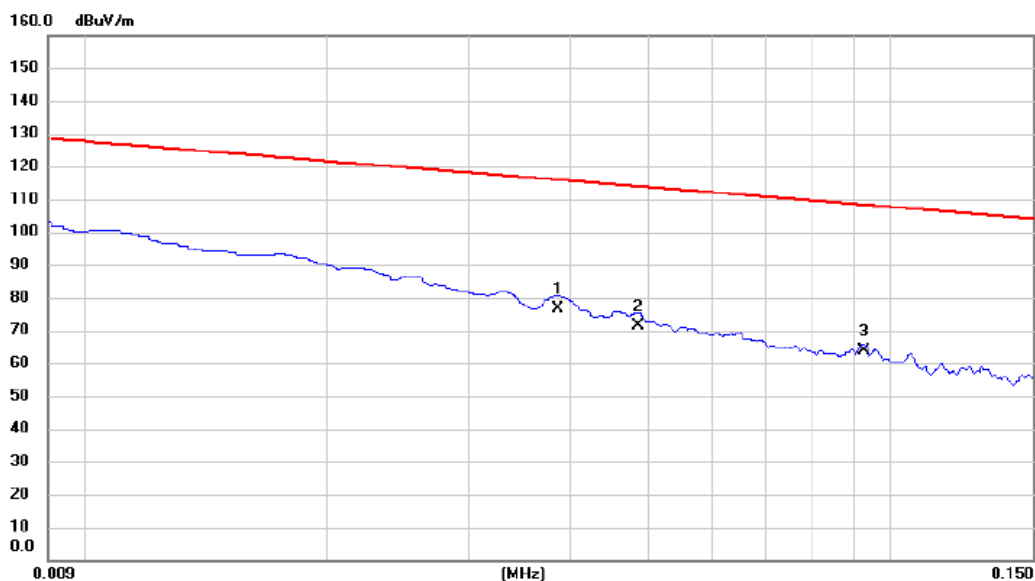
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	32.98	9.97	42.95	66.00	-23.05	QP	
2	0.1500	22.60	9.97	32.57	56.00	-23.43	AVG	
3	0.1580	31.62	9.97	41.59	65.57	-23.98	QP	
4	0.1580	21.81	9.97	31.78	55.57	-23.79	AVG	
5	0.1668	29.75	9.97	39.72	65.12	-25.40	QP	
6	0.1668	19.60	9.97	29.57	55.12	-25.55	AVG	
7	0.2020	23.67	9.97	33.64	63.53	-29.89	QP	
8	0.2020	14.60	9.97	24.57	53.53	-28.96	AVG	
9	0.5660	24.25	10.03	34.28	56.00	-21.72	QP	
10	0.5660	15.41	10.03	25.44	46.00	-20.56	AVG	
11	0.6300	31.60	10.04	41.64	56.00	-14.36	QP	
12 *	0.6300	21.89	10.04	31.93	46.00	-14.07	AVG	

REMARKS:

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

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 0°
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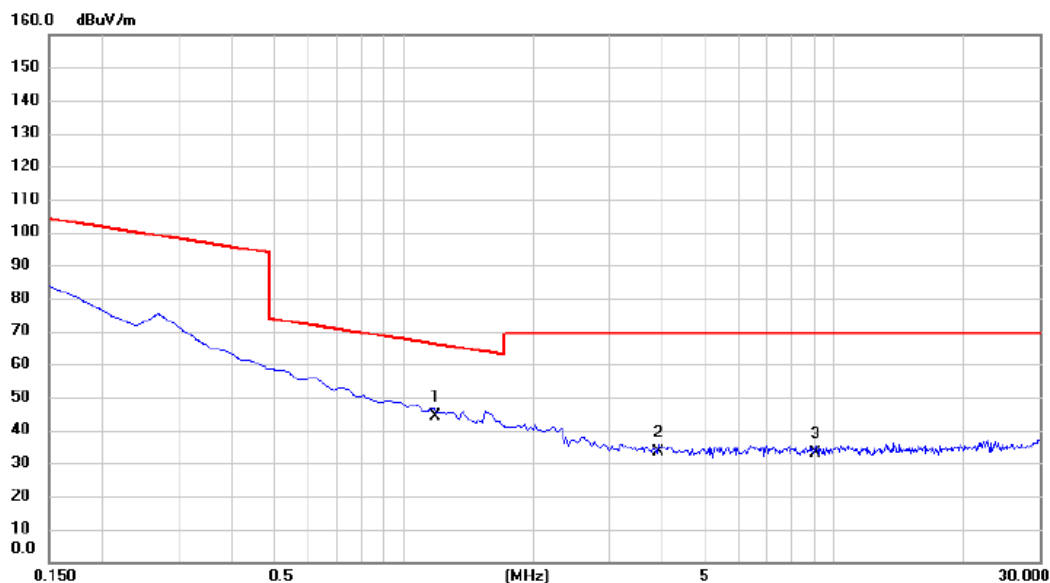


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.039	56.55	20.14	76.69	115.87	-39.18	AVG	
2		0.049	51.45	20.14	71.59	113.89	-42.30	AVG	
3		0.092	43.78	20.14	63.92	108.28	-44.36	QP	

REMARKS:

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 0°
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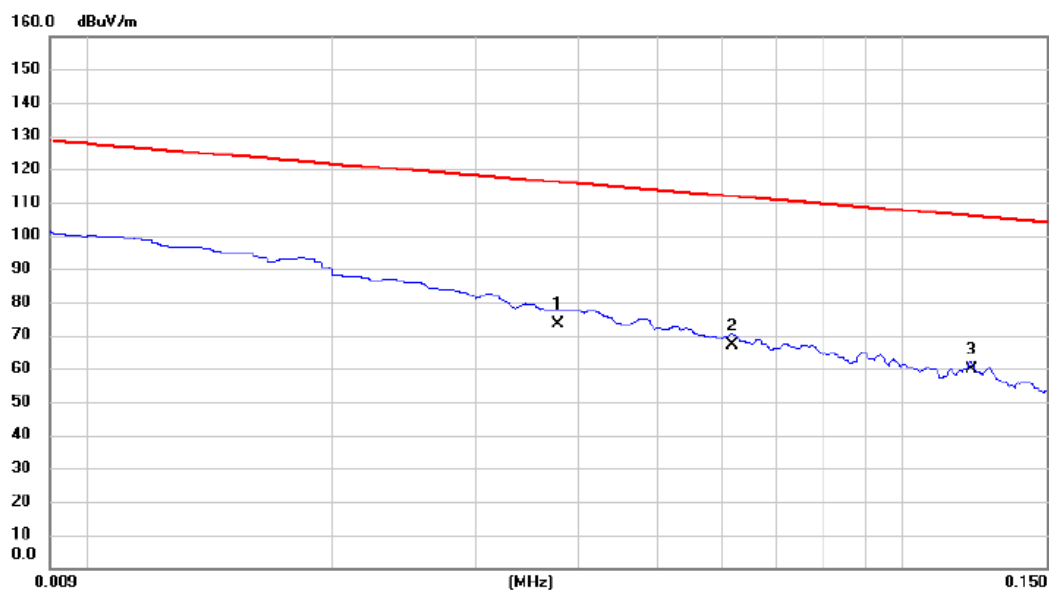


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	1.184	24.12	20.00	44.12	66.13	-22.01	QP	
2	3.911	13.22	20.12	33.34	69.54	-36.20	QP	
3	9.075	12.55	20.42	32.97	69.54	-36.57	QP	

REMARKS:

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 90°
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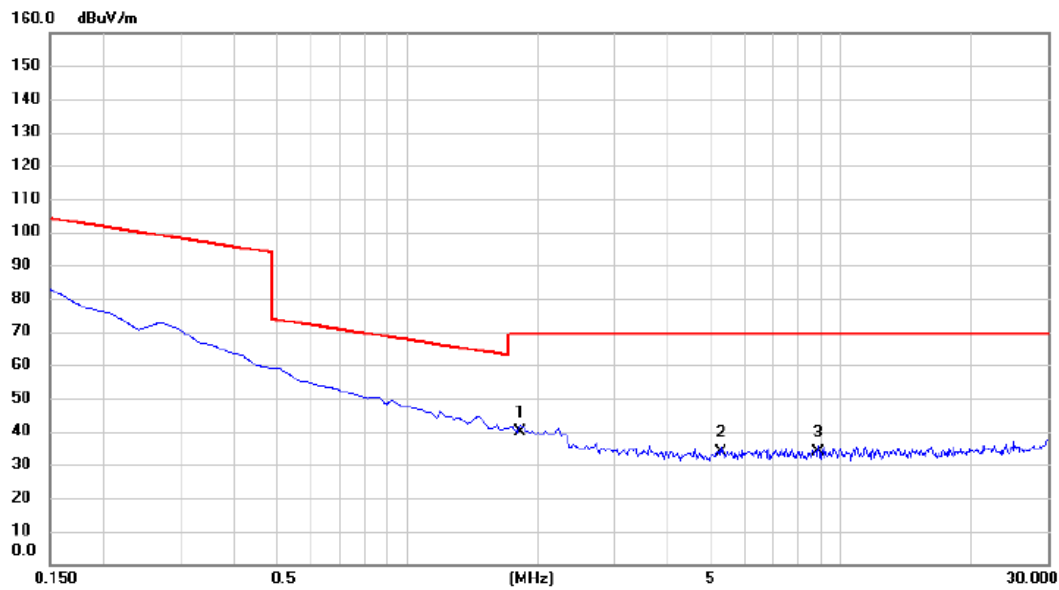


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.038	53.15	20.14	73.29	116.06	-42.77	AVG	
2	0.062	46.82	20.14	66.96	111.80	-44.84	AVG	
3	0.121	39.64	20.10	59.74	105.94	-46.20	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 90°
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No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	1.822	19.62	20.01	39.63	69.54	-29.91	QP	
2	5.284	13.58	20.22	33.80	69.54	-35.74	QP	
3	8.896	13.40	20.41	33.81	69.54	-35.73	QP	

REMARKS:

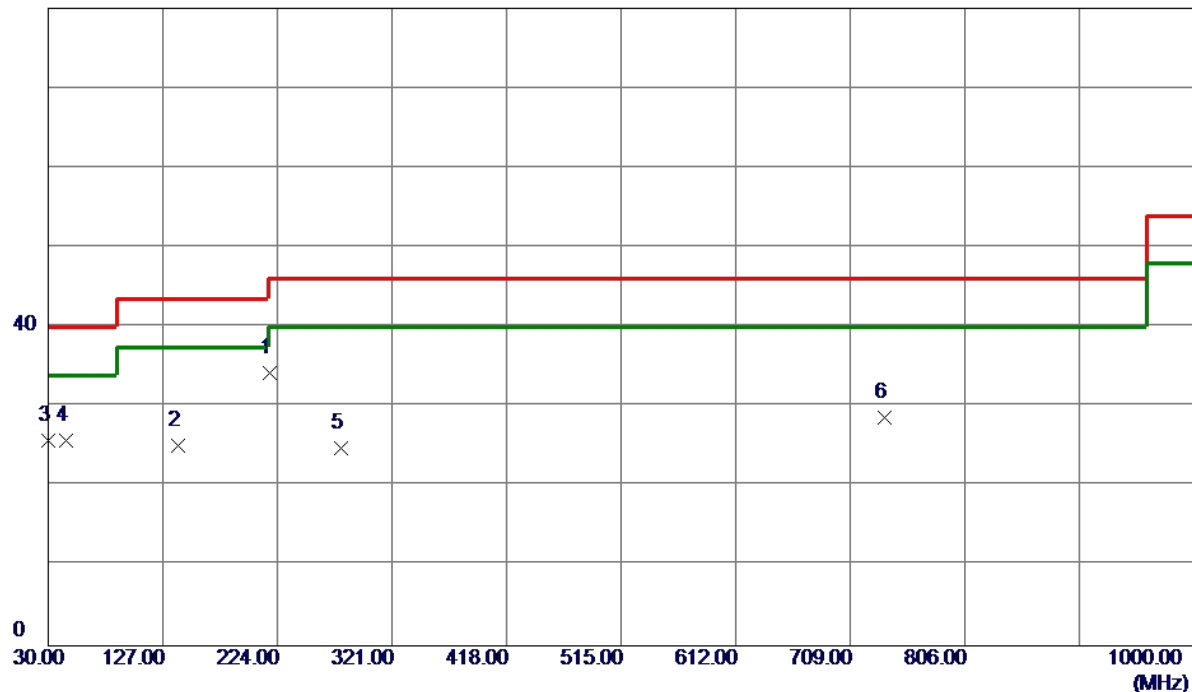
(1) Measurement Value = Reading Level + Correct Factor.

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

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Vertical
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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 *	217.2100	52.38	-18.17	34.21	46.02	-11.81	Peak	
2	139.6100	40.53	-15.36	25.17	43.52	-18.35	Peak	
3	30.0000	42.28	-16.49	25.79	40.00	-14.21	Peak	
4	45.5200	40.46	-14.69	25.77	40.00	-14.23	Peak	
5	278.3200	39.75	-14.89	24.86	46.02	-21.16	Peak	
6	738.1000	32.60	-4.00	28.60	46.02	-17.42	Peak	

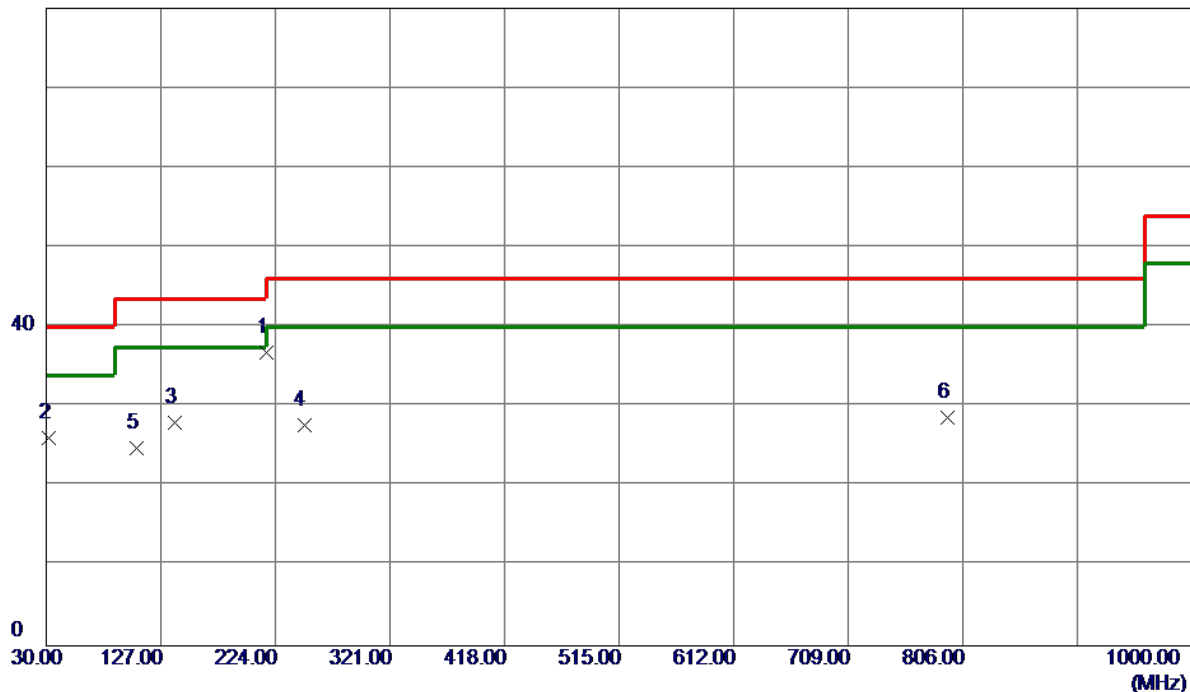
REMARKS:

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

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Horizontal
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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 *	216.2400	55.02	-18.18	36.84	46.02	-9.18	Peak	
2	31.9400	42.24	-16.14	26.10	40.00	-13.90	Peak	
3	138.6400	43.41	-15.44	27.97	43.52	-15.55	Peak	
4	248.2500	43.90	-16.19	27.71	46.02	-18.31	Peak	
5	106.6300	43.39	-18.59	24.80	43.52	-18.72	Peak	
6	793.3900	31.77	-3.09	28.68	46.02	-17.34	Peak	

REMARKS:

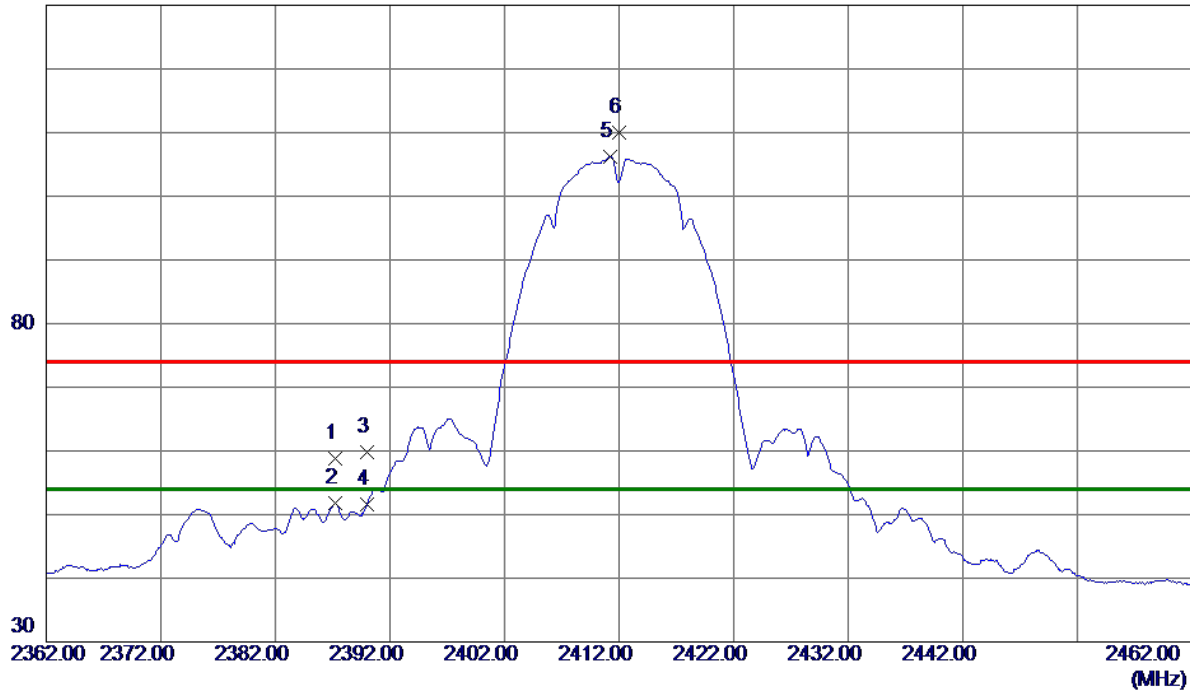
(1) Measurement Value = Reading Level + Correct Factor.

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

APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.2000	50.09	8.80	58.89	74.00	-15.11	Peak	
2	2387.2000	42.94	8.80	51.74	54.00	-2.26	AVG	
3	2390.0000	50.91	8.81	59.72	74.00	-14.28	Peak	
4	2390.0000	42.77	8.81	51.58	54.00	-2.42	AVG	
5 *	2411.2000	97.25	8.90	106.15	54.00	52.15	AVG	No Limit
6	2412.0000	101.10	8.90	110.00	74.00	36.00	Peak	No Limit

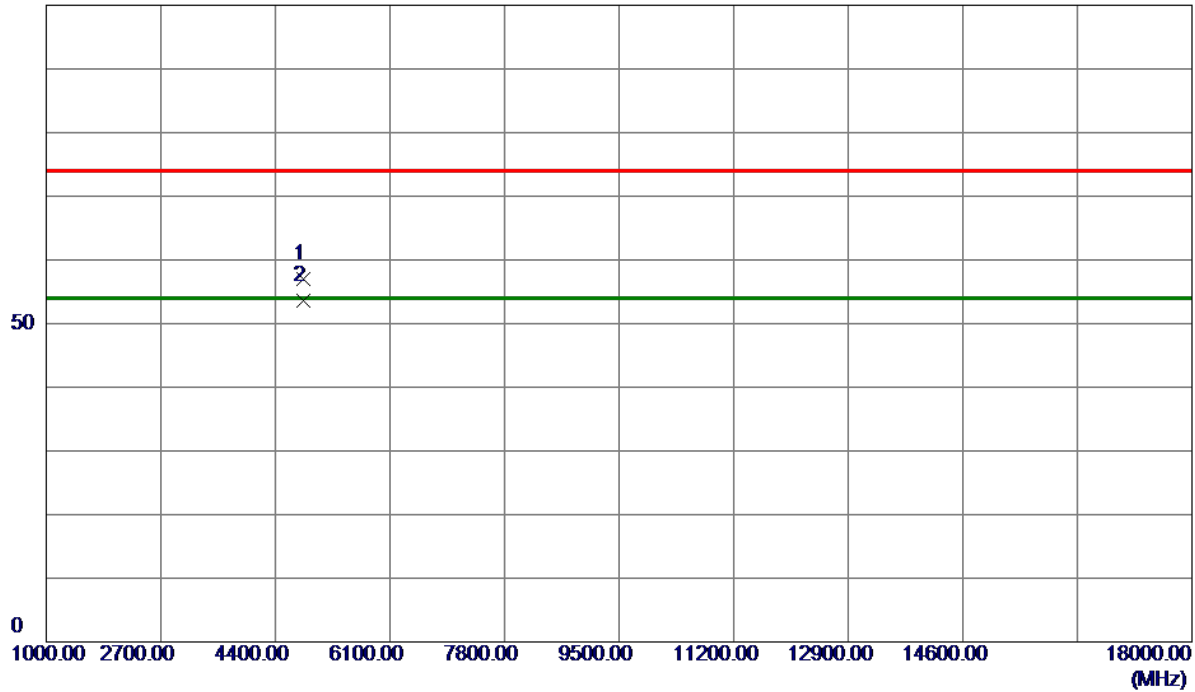
REMARKS:

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

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

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9000	51.44	5.54	56.98	74.00	-17.02	Peak	
2 *	4823.9500	48.02	5.54	53.56	54.00	-0.44	AVG	

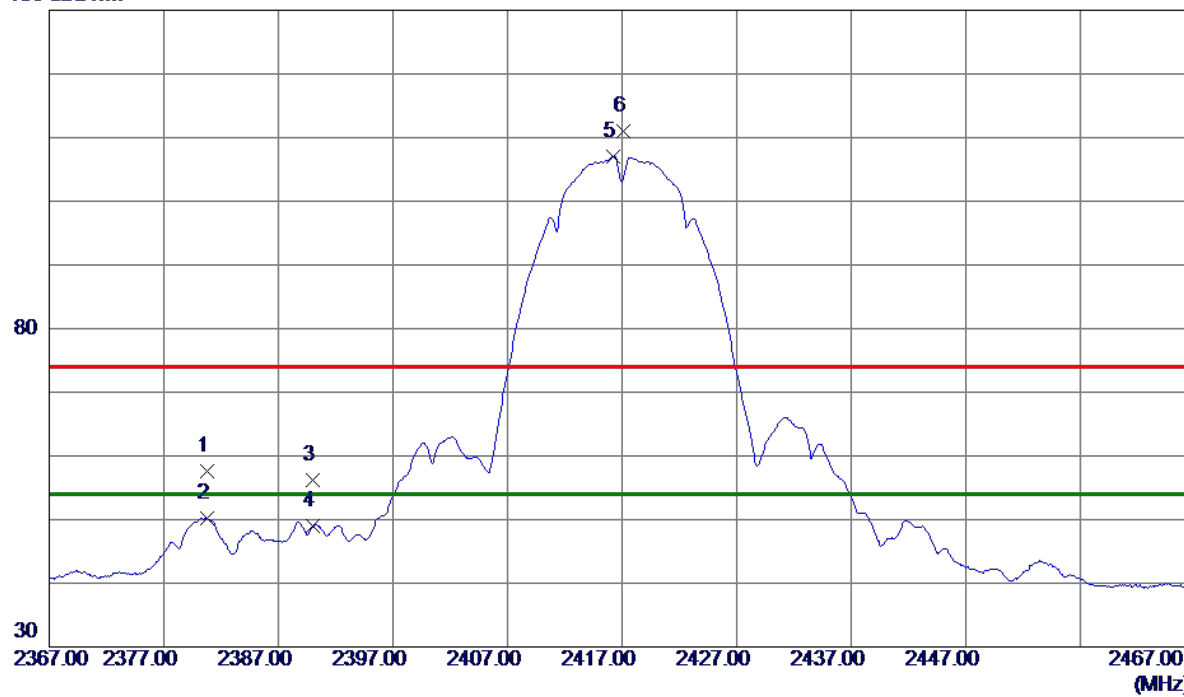
REMARKS:

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

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

Test Mode	TX B Mode 2417 MHz	Polarization	Vertical
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130 dBuV/m



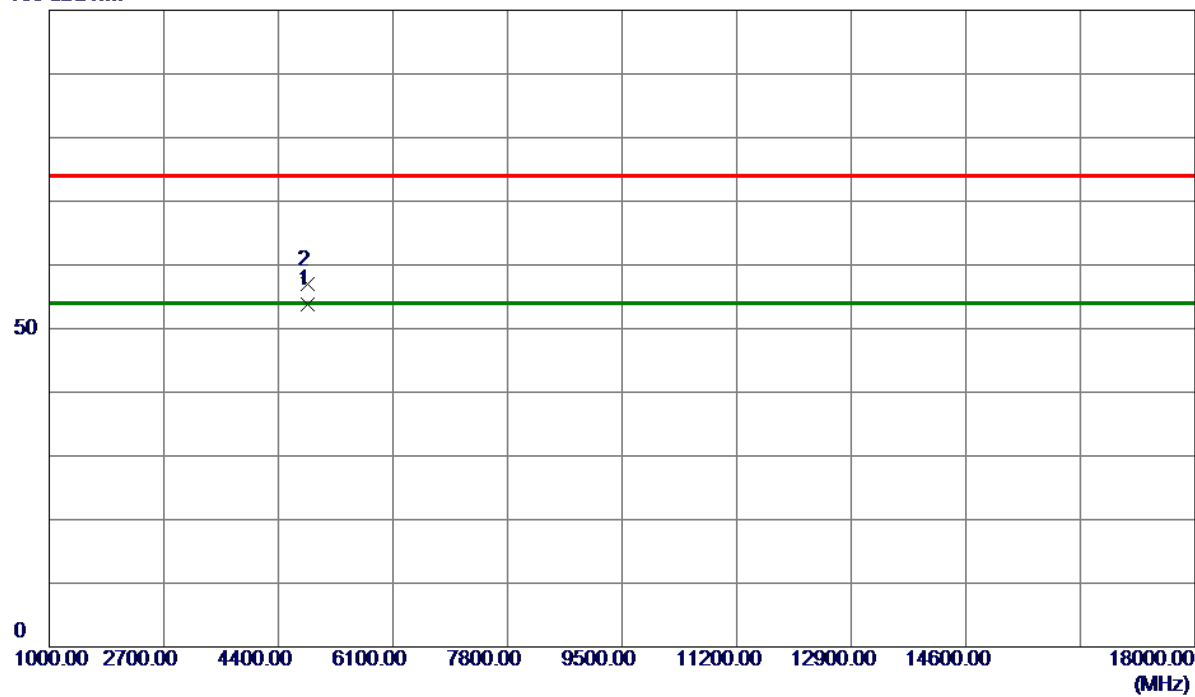
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2380.8000	48.74	8.77	57.51	74.00	-16.49	Peak	
2	2380.8000	41.43	8.77	50.20	54.00	-3.80	AVG	
3	2390.0000	47.44	8.81	56.25	74.00	-17.75	Peak	
4	2390.0000	40.17	8.81	48.98	54.00	-5.02	AVG	
5 *	2416.2000	98.16	8.92	107.08	54.00	53.08	AVG	No Limit
6	2417.1000	102.03	8.92	110.95	74.00	36.95	Peak	No Limit

REMARKS:

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

Test Mode	TX B Mode 2417 MHz	Polarization	Vertical
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100 dBuV/m



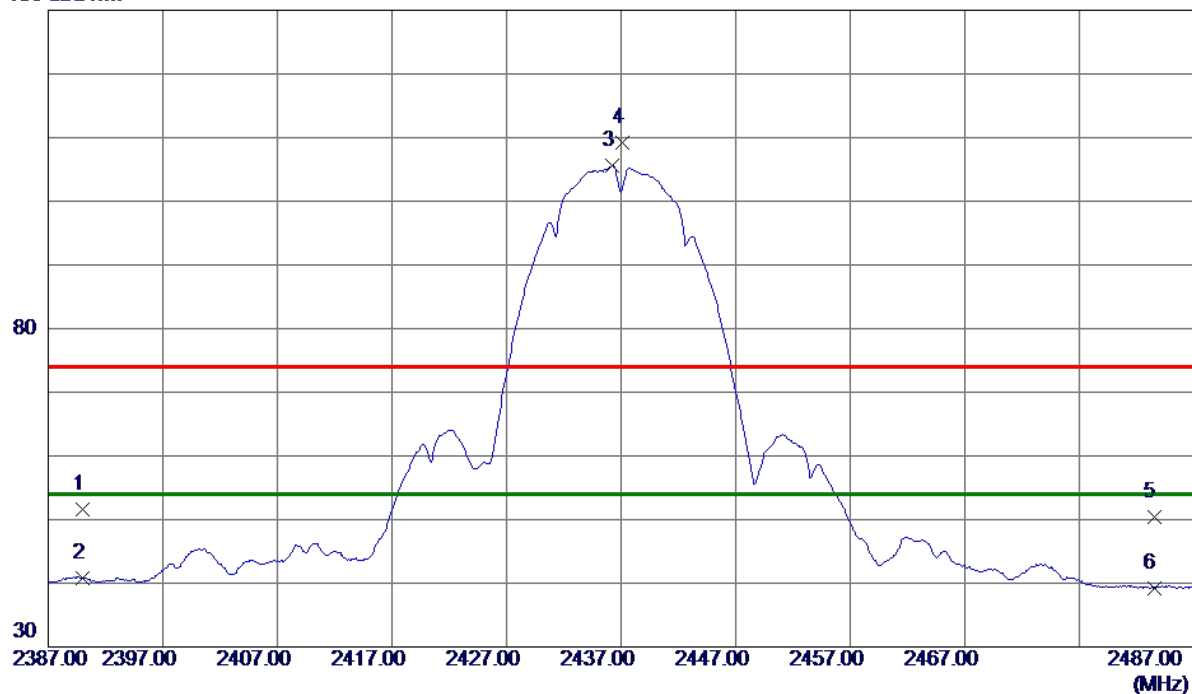
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4833.9500	48.29	5.55	53.84	54.00	-0.16	AVG	
2	4834.1500	51.35	5.55	56.90	74.00	-17.10	Peak	

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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130 dBuV/m



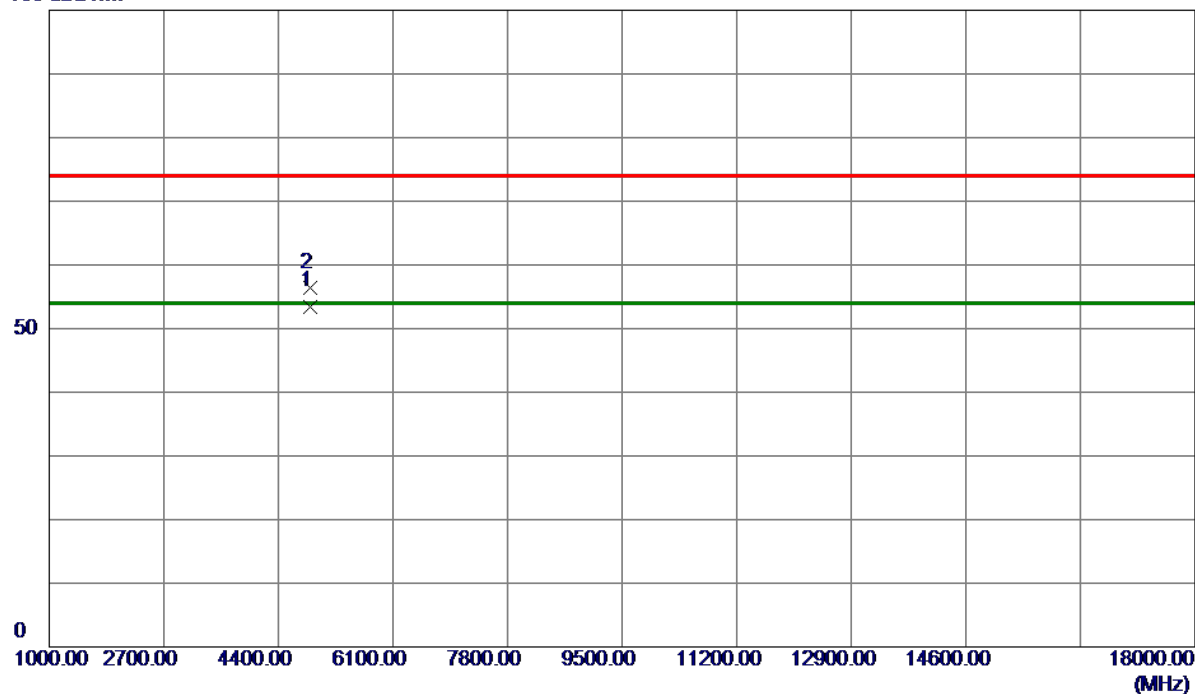
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	42.79	8.81	51.60	74.00	-22.40	Peak	
2	2390.0000	32.07	8.81	40.88	54.00	-13.12	AVG	
3 *	2436.2000	96.55	9.00	105.55	54.00	51.55	AVG	No Limit
4	2437.1000	100.25	9.01	109.26	74.00	35.26	Peak	No Limit
5	2483.5000	41.26	9.20	50.46	74.00	-23.54	Peak	
6	2483.5000	30.09	9.20	39.29	54.00	-14.71	AVG	

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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100 dBuV/m



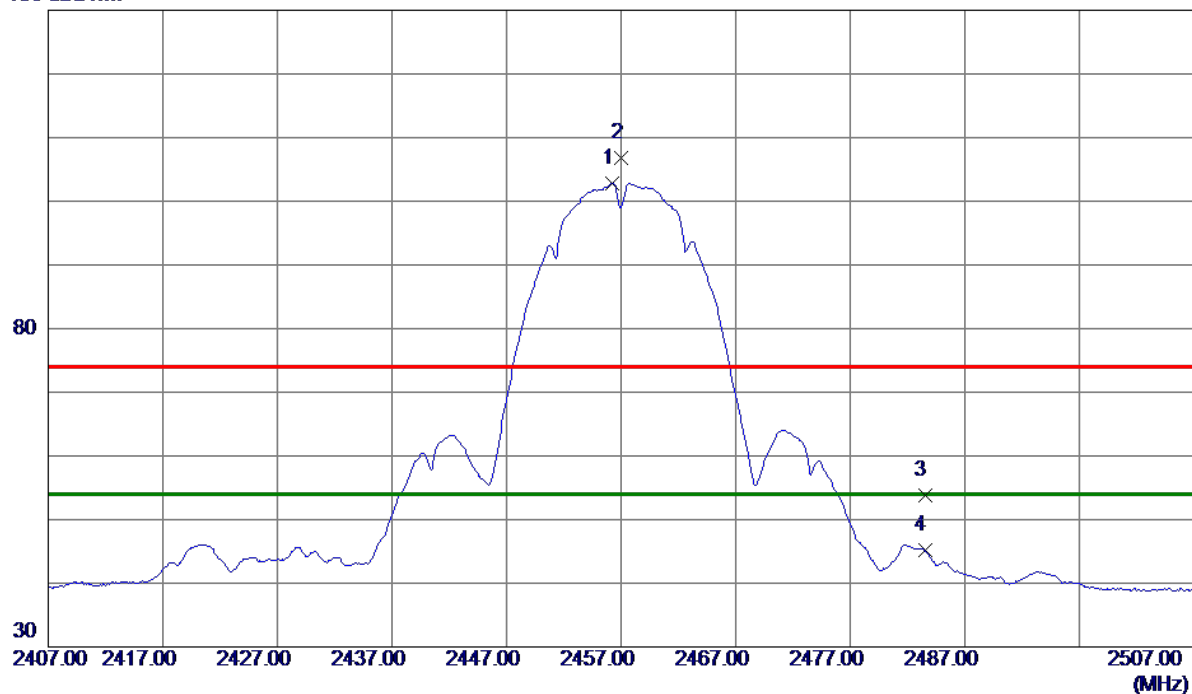
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9500	47.90	5.60	53.50	54.00	-0.50	AVG	
2	4873.9000	50.80	5.60	56.40	74.00	-17.60	Peak	

REMARKS:

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

Test Mode	TX B Mode 2457 MHz	Polarization	Vertical
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130 dBuV/m



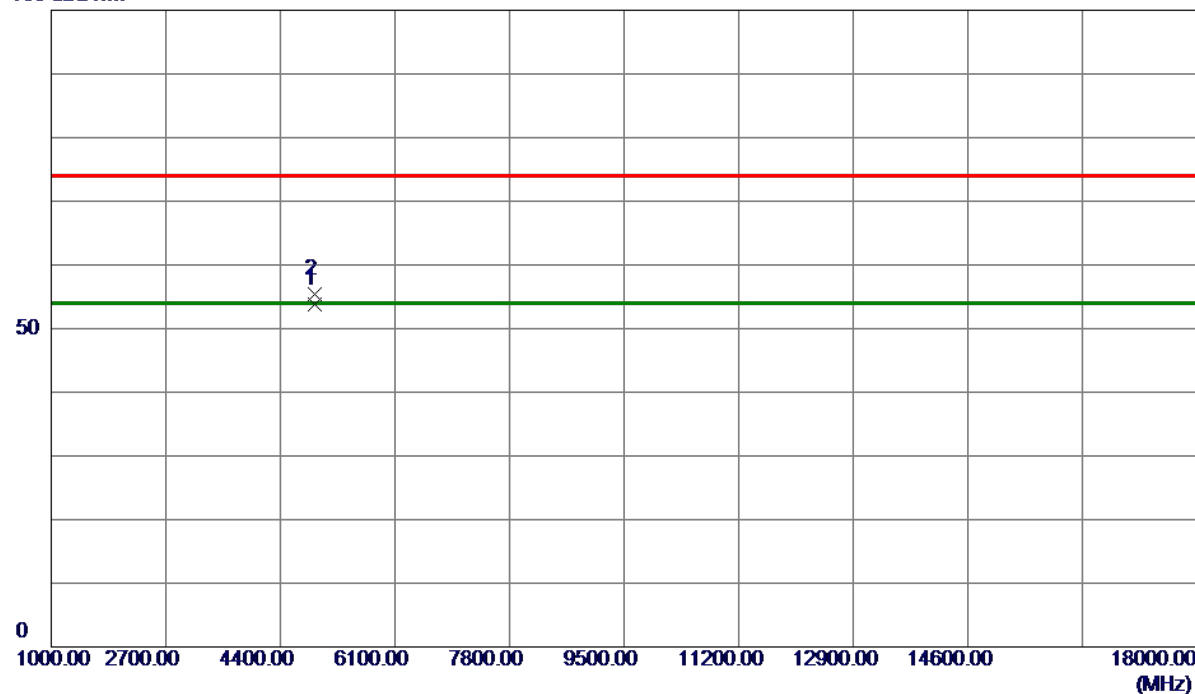
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2456.2000	93.74	9.08	102.82	54.00	48.82	AVG	No Limit
2	2457.0000	97.72	9.09	106.81	74.00	32.81	Peak	No Limit
3	2483.5000	44.60	9.20	53.80	74.00	-20.20	Peak	
4	2483.5000	35.91	9.20	45.11	54.00	-8.89	AVG	

REMARKS:

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

Test Mode	TX B Mode 2457 MHz	Polarization	Vertical
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100 dBuV/m



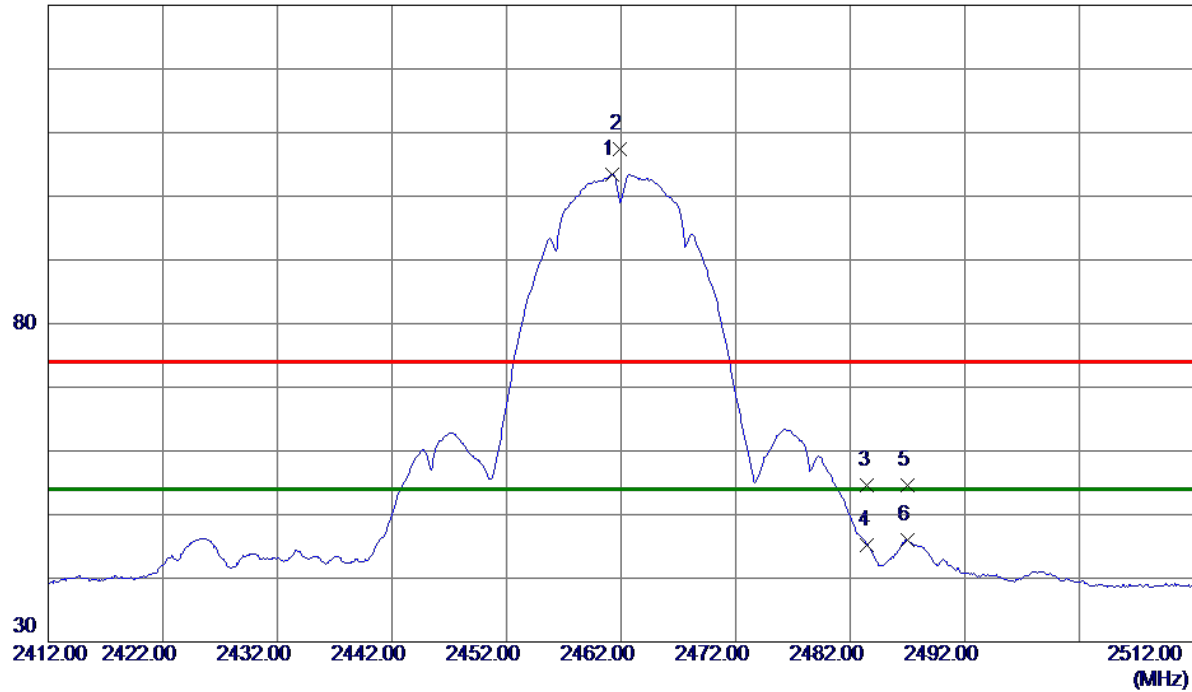
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4914.0000	48.14	5.66	53.80	54.00	-0.20	AVG	
2	4913.9400	49.75	5.66	55.41	74.00	-18.59	Peak	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.2000	94.32	9.10	103.42	54.00	49.42	AVG	No Limit
2	2461.9000	98.28	9.11	107.39	74.00	33.39	Peak	No Limit
3	2483.5000	45.46	9.20	54.66	74.00	-19.34	Peak	
4	2483.5000	35.91	9.20	45.11	54.00	-8.89	AVG	
5	2487.0000	45.38	9.21	54.59	74.00	-19.41	Peak	
6	2487.0000	36.85	9.21	46.06	54.00	-7.94	AVG	

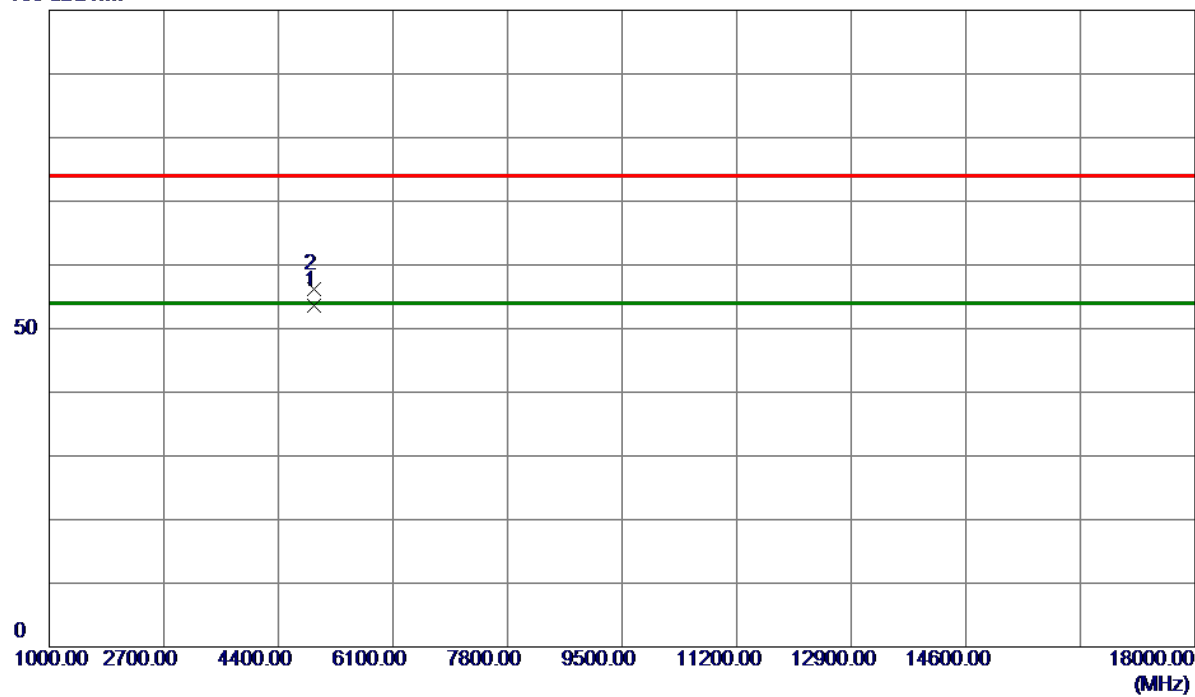
REMARKS:

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

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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100 dBuV/m



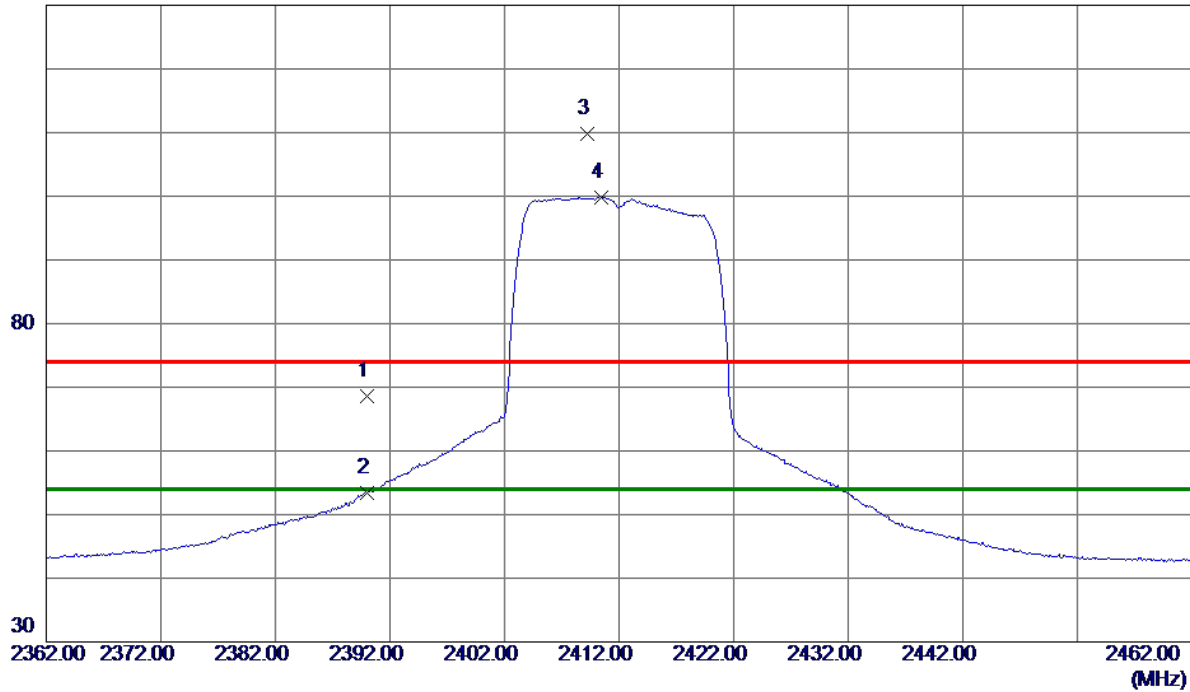
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.9500	47.92	5.67	53.59	54.00	-0.41	AVG	
2	4924.1500	50.57	5.67	56.24	74.00	-17.76	Peak	

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	59.81	8.81	68.62	74.00	-5.38	Peak	
2	2390.0000	44.67	8.81	53.48	54.00	-0.52	AVG	
3	2409.2000	100.87	8.89	109.76	74.00	35.76	Peak	No Limit
4 *	2410.4000	90.92	8.89	99.81	54.00	45.81	AVG	No Limit

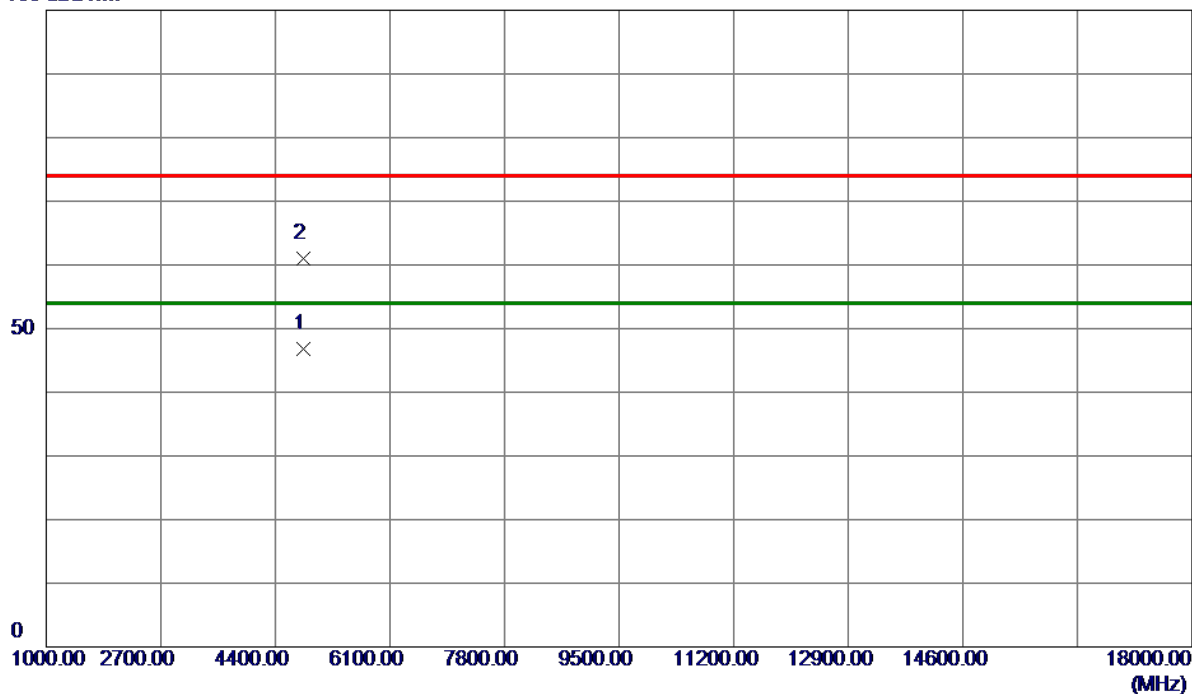
REMARKS:

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

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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100 dBuV/m



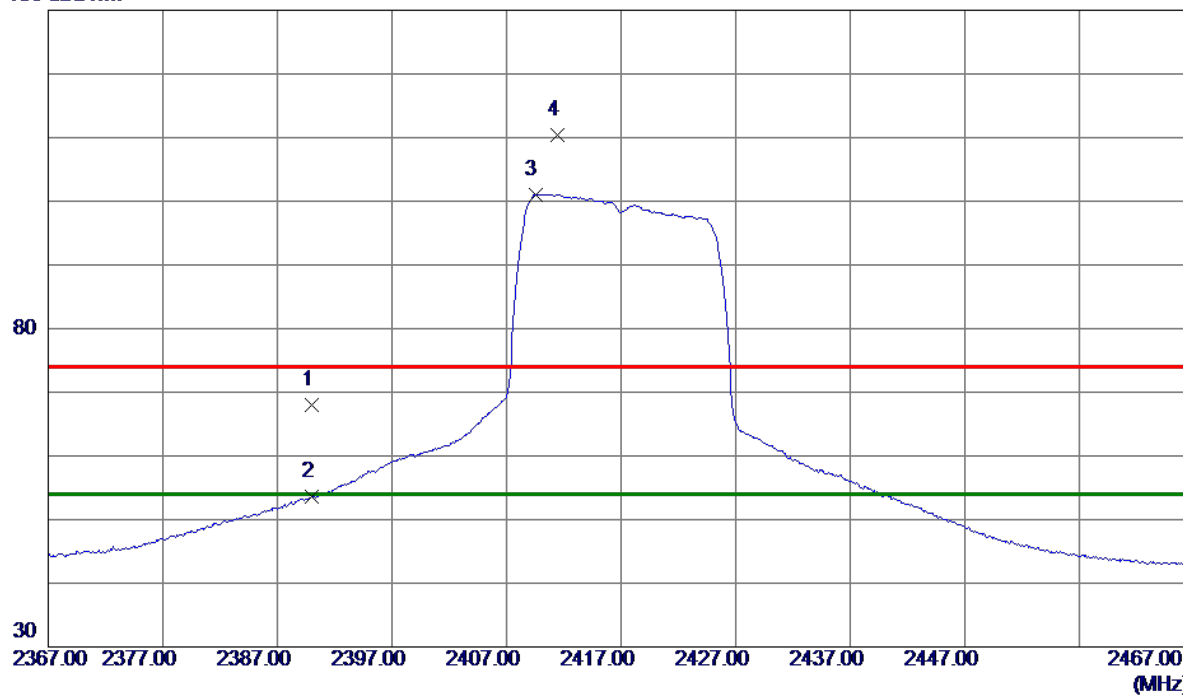
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.8000	41.27	5.54	46.81	54.00	-7.19	AVG	
2	4822.1500	55.40	5.54	60.94	74.00	-13.06	Peak	

REMARKS:

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

Test Mode	TX G Mode 2417 MHz	Polarization	Vertical
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130 dBuV/m



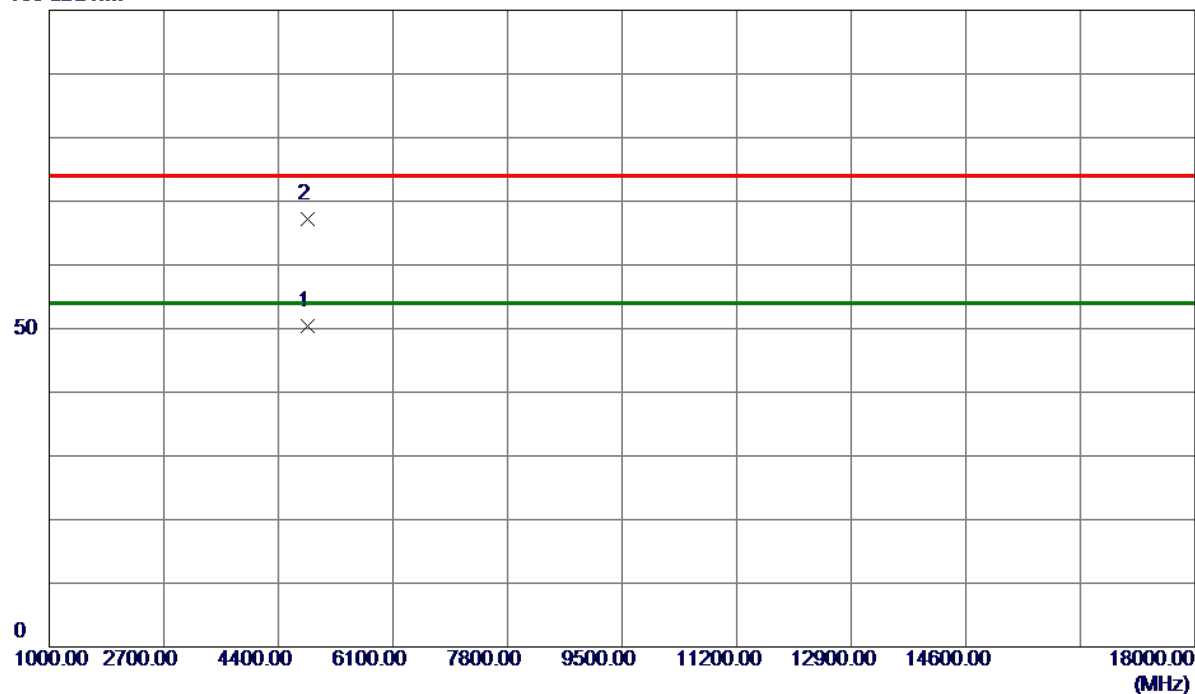
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	59.13	8.81	67.94	74.00	-6.06	Peak	
2	2390.0000	44.73	8.81	53.54	54.00	-0.46	AVG	
3 *	2409.5000	92.21	8.89	101.10	54.00	47.10	AVG	No Limit
4	2411.4000	101.58	8.90	110.48	74.00	36.48	Peak	No Limit

REMARKS:

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

Test Mode	TX G Mode 2417 MHz	Polarization	Vertical
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100 dBuV/m



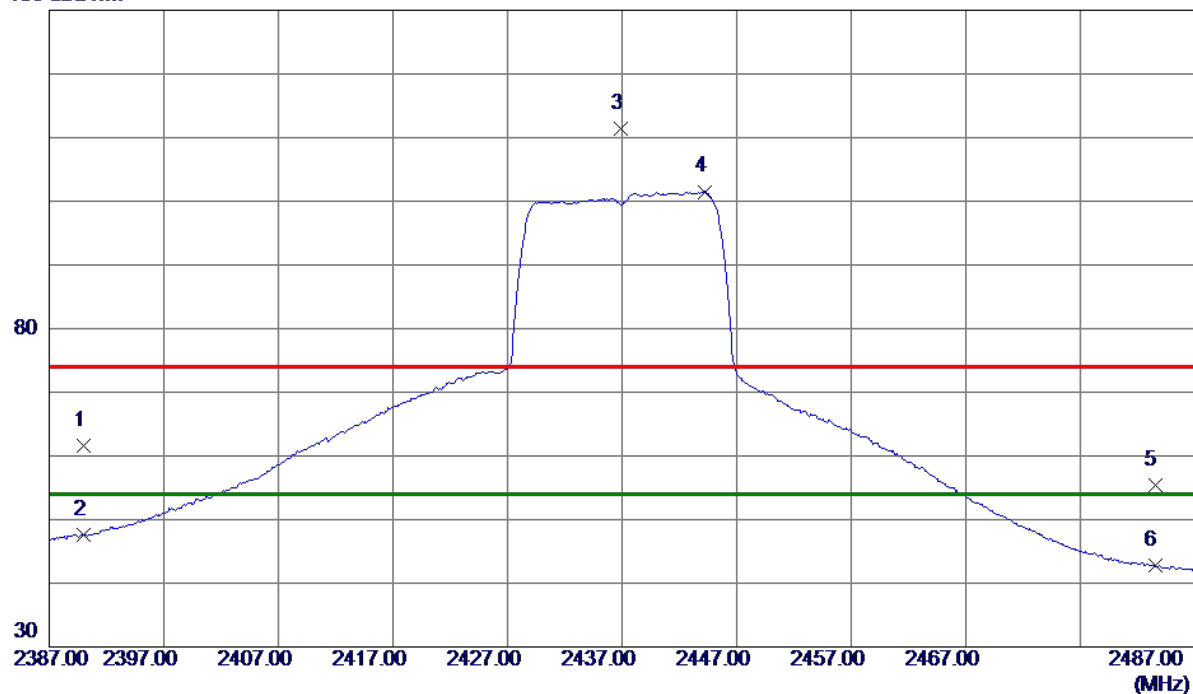
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4833.6000	44.80	5.55	50.35	54.00	-3.65	AVG	
2	4833.2500	61.62	5.55	67.17	74.00	-6.83	Peak	

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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130 dBuV/m



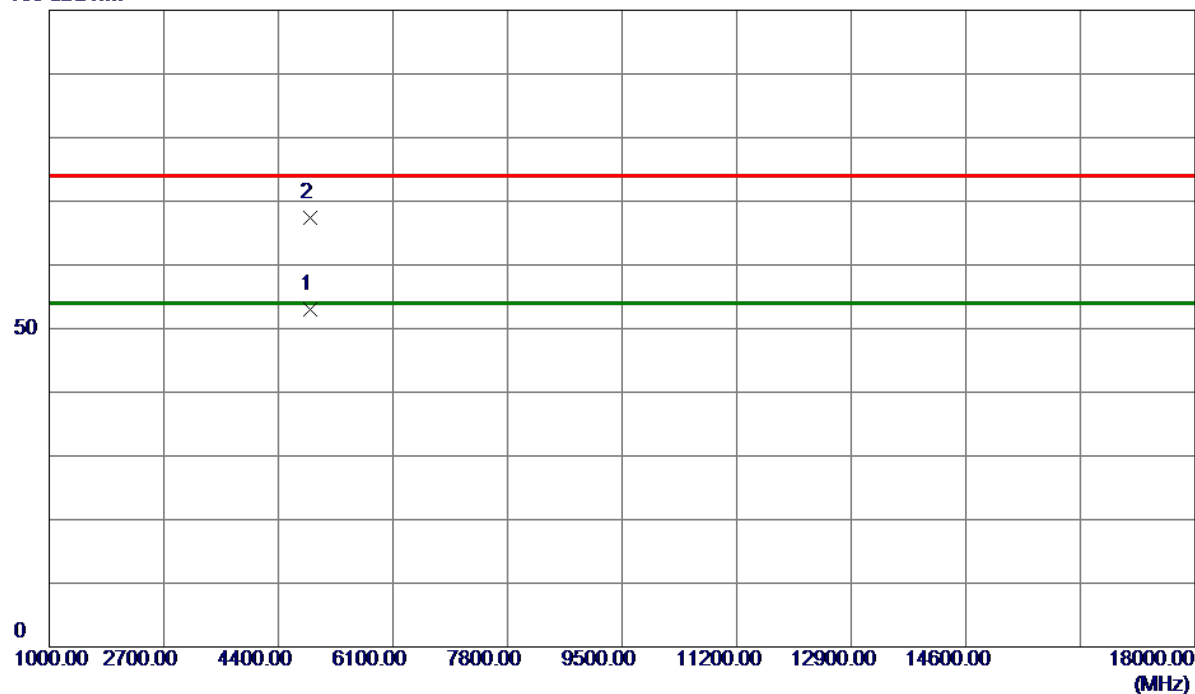
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	52.71	8.81	61.52	74.00	-12.48	Peak	
2	2390.0000	38.88	8.81	47.69	54.00	-6.31	AVG	
3	2436.9000	102.34	9.00	111.34	74.00	37.34	Peak	No Limit
4 *	2444.2000	92.47	9.03	101.50	54.00	47.50	AVG	No Limit
5	2483.5000	46.21	9.20	55.41	74.00	-18.59	Peak	
6	2483.5000	33.67	9.20	42.87	54.00	-11.13	AVG	

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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100 dBuV/m



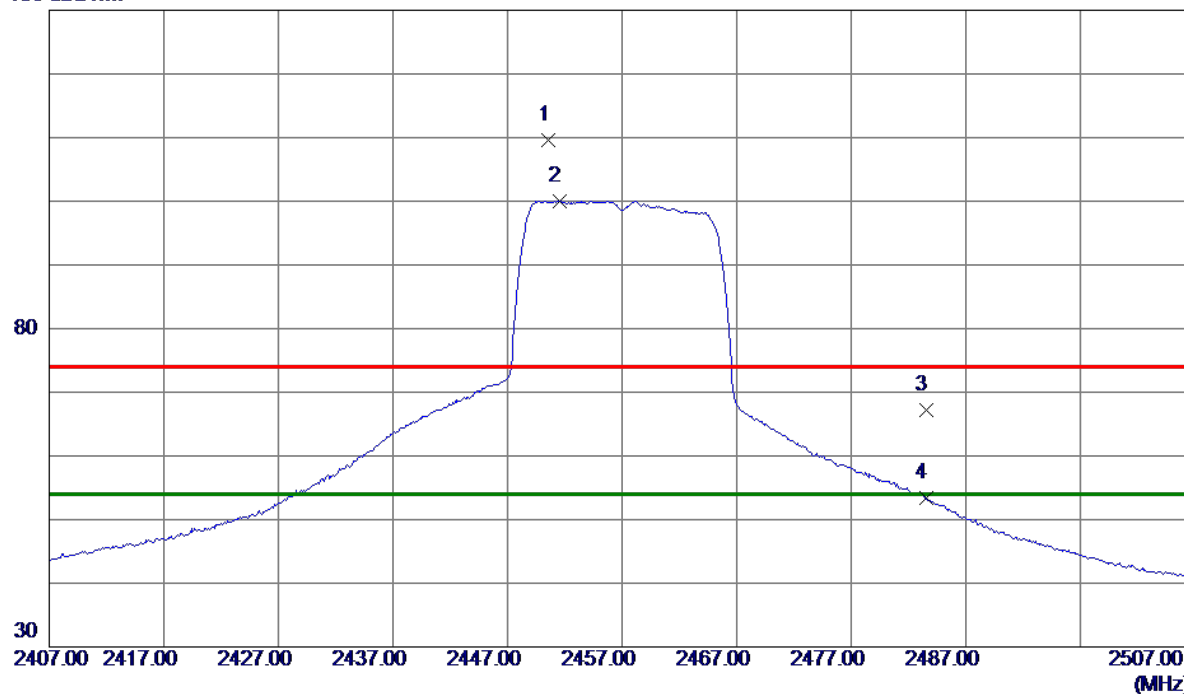
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9500	47.47	5.60	53.07	54.00	-0.93	AVG	
2	4875.5500	61.72	5.61	67.33	74.00	-6.67	Peak	

REMARKS:

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

Test Mode	TX G Mode 2457 MHz	Polarization	Vertical
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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2450.6000	100.54	9.06	109.60	74.00	35.60	Peak	No Limit
2 *	2451.5000	91.02	9.06	100.08	54.00	46.08	AVG	No Limit
3	2483.5000	58.09	9.20	67.29	74.00	-6.71	Peak	
4	2483.5000	44.18	9.20	53.38	54.00	-0.62	AVG	

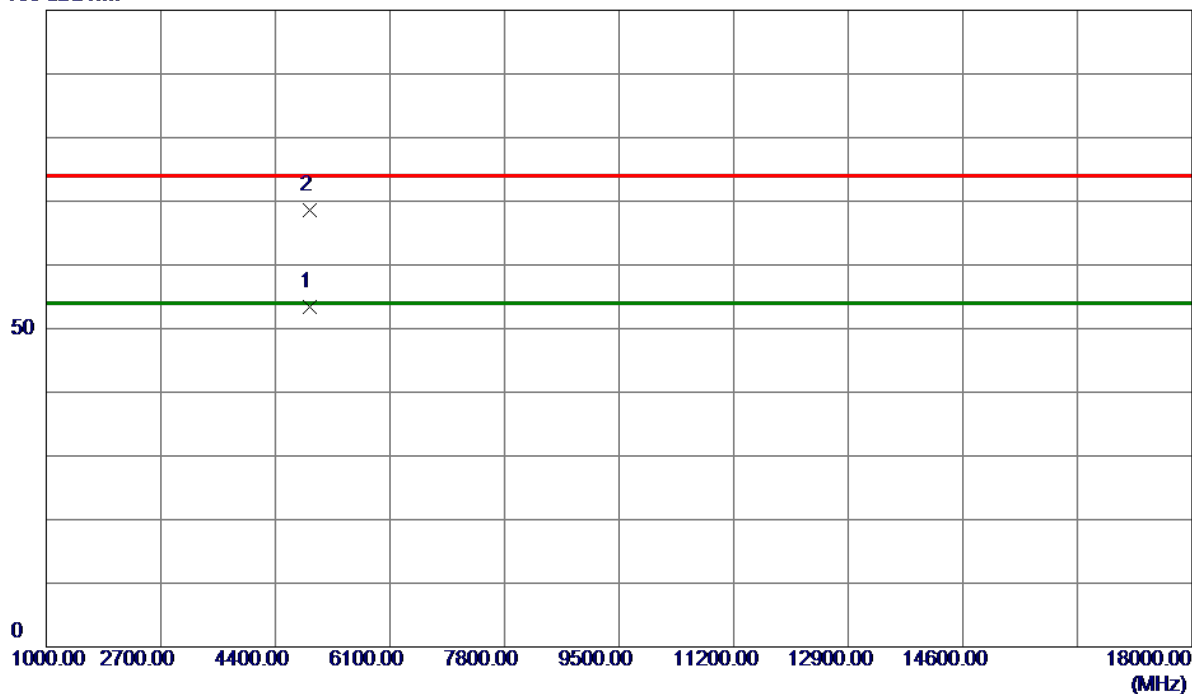
REMARKS:

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

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

Test Mode	TX G Mode 2457 MHz	Polarization	Vertical
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100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4913.8000	47.82	5.66	53.48	54.00	-0.52	AVG	
2	4911.9500	62.99	5.65	68.64	74.00	-5.36	Peak	

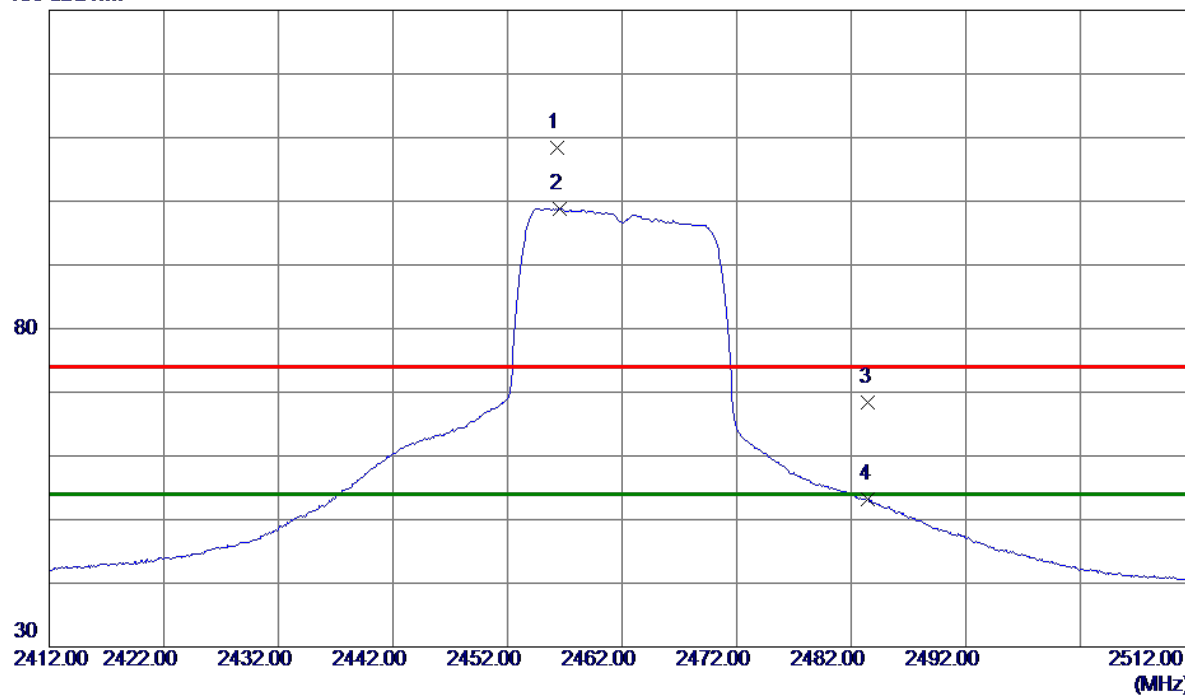
REMARKS:

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

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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130 dBuV/m



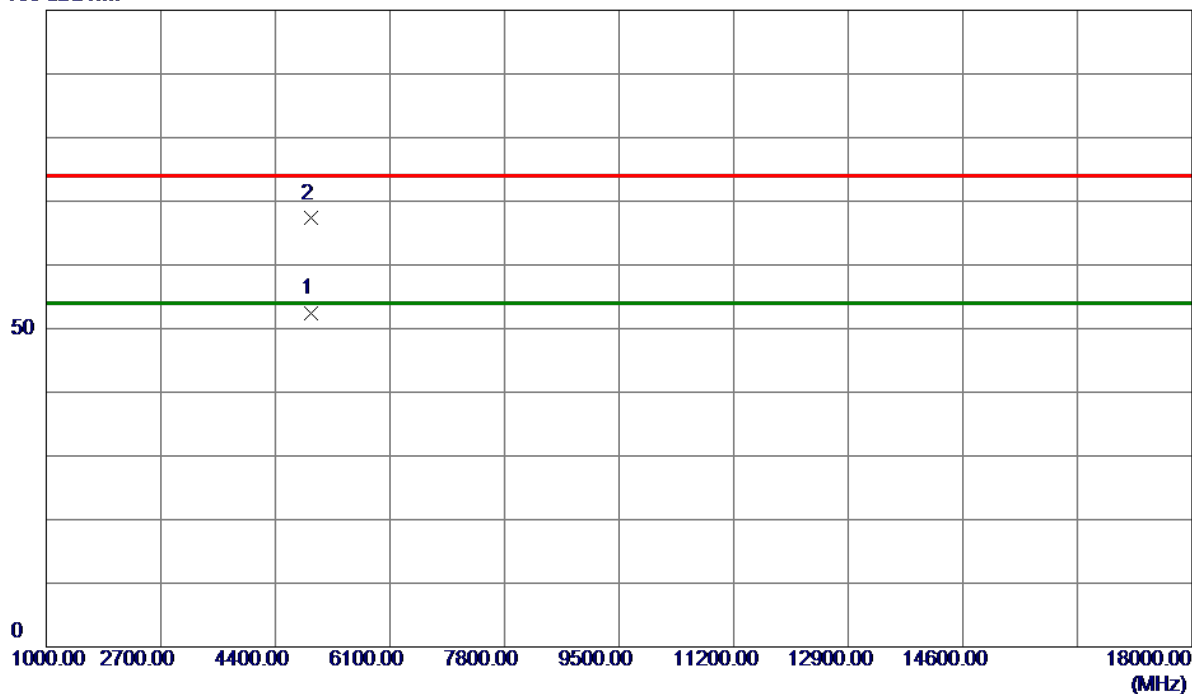
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2456.3000	99.30	9.08	108.38	74.00	34.38	Peak	No Limit
2 *	2456.6000	89.76	9.09	98.85	54.00	44.85	AVG	No Limit
3	2483.5000	59.23	9.20	68.43	74.00	-5.57	Peak	
4	2483.5000	43.94	9.20	53.14	54.00	-0.86	AVG	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.8000	46.76	5.67	52.43	54.00	-1.57	AVG	
2	4922.3500	61.63	5.67	67.30	74.00	-6.70	Peak	

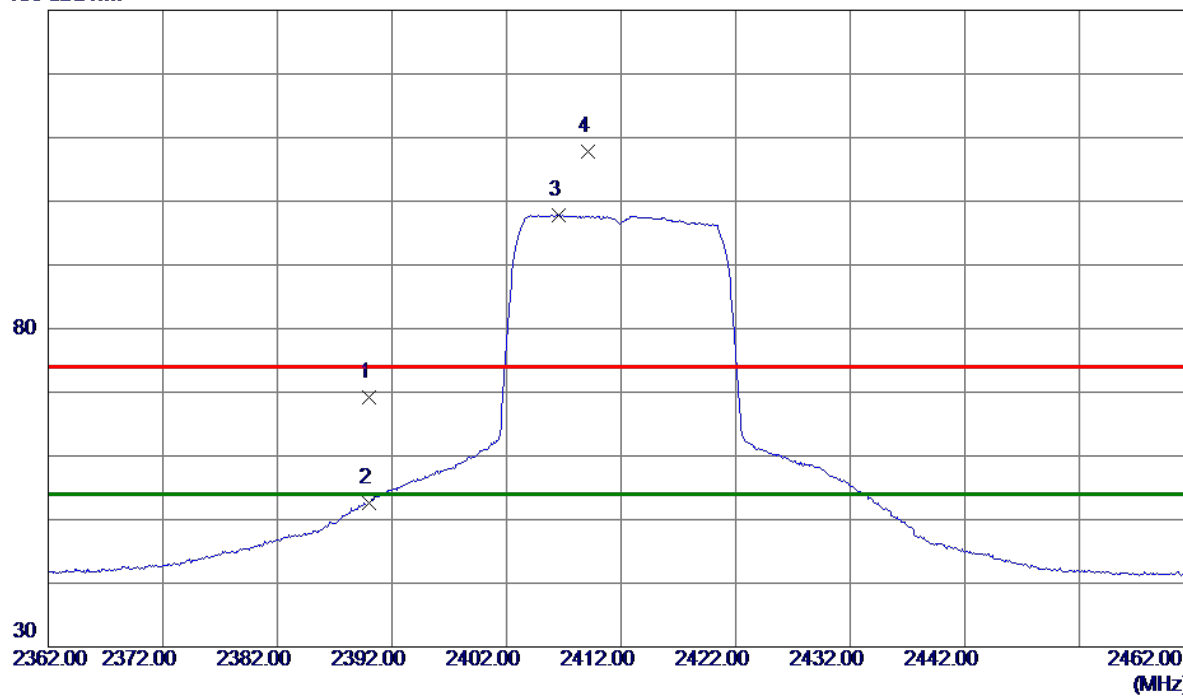
REMARKS:

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

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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130 dBuV/m



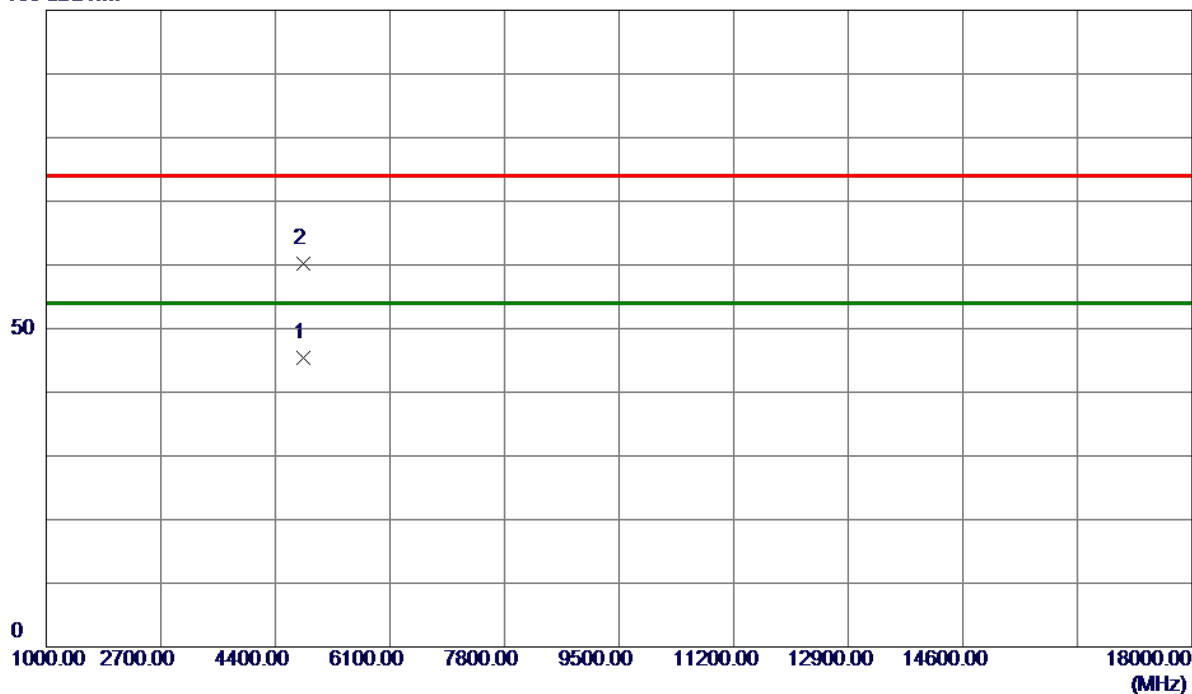
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	60.31	8.81	69.12	74.00	-4.88	Peak	
2	2390.0000	43.83	8.81	52.64	54.00	-1.36	AVG	
3 *	2406.6000	88.99	8.88	97.87	54.00	43.87	AVG	No Limit
4	2409.1000	98.91	8.89	107.80	74.00	33.80	Peak	No Limit

REMARKS:

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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100 dBuV/m



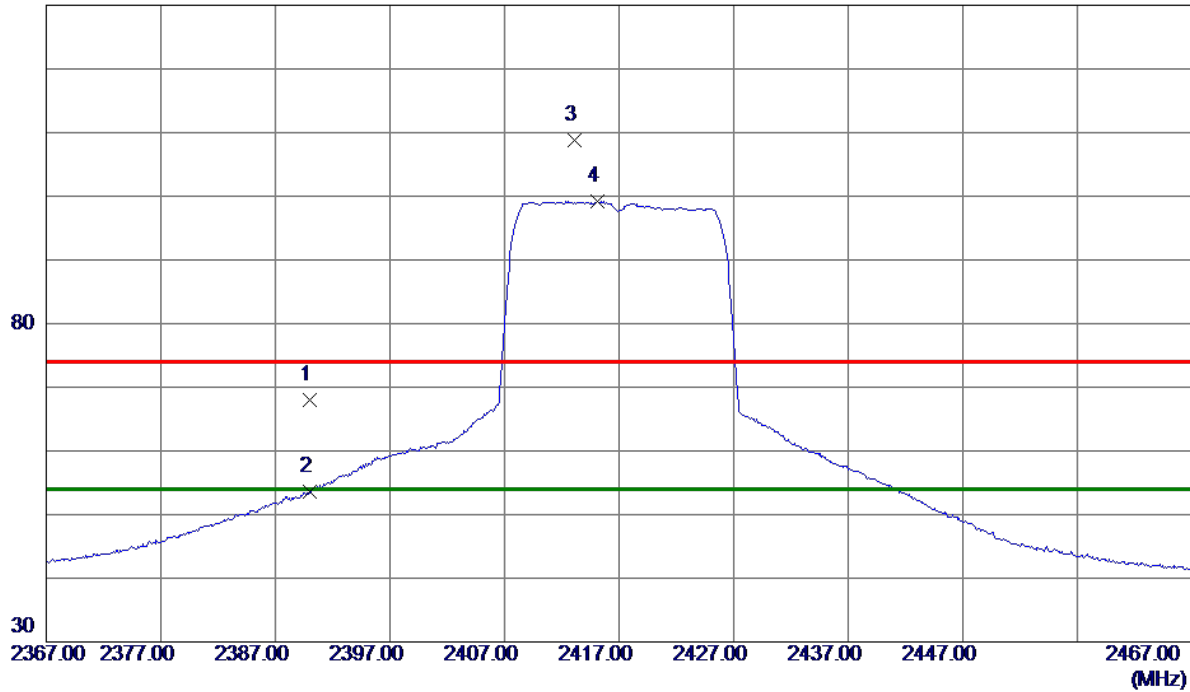
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.3500	39.85	5.54	45.39	54.00	-8.61	AVG	
2	4814.8000	54.64	5.53	60.17	74.00	-13.83	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2417 MHz	Polarization	Vertical
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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	59.11	8.81	67.92	74.00	-6.08	Peak	
2	2390.0000	44.70	8.81	53.51	54.00	-0.49	AVG	
3	2413.1000	99.95	8.91	108.86	74.00	34.86	Peak	No Limit
4 *	2415.1000	90.25	8.91	99.16	54.00	45.16	AVG	No Limit

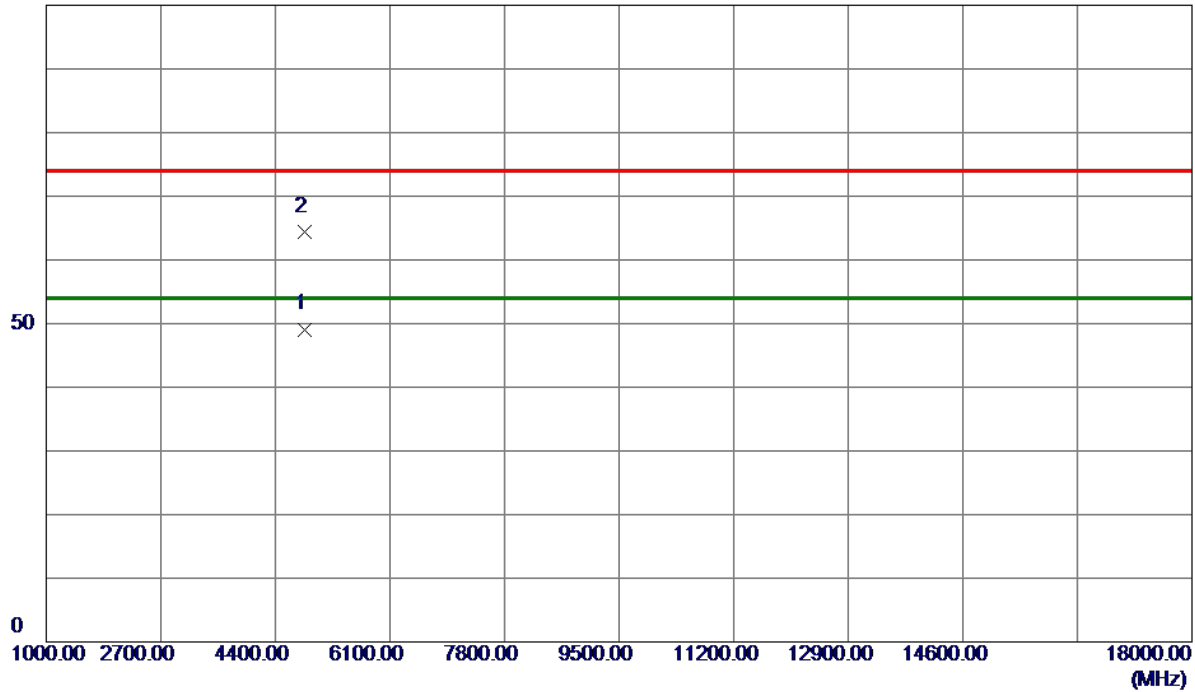
REMARKS:

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

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

Test Mode	TX N(HT20) Mode 2417 MHz	Polarization	Vertical
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100 dBuV/m



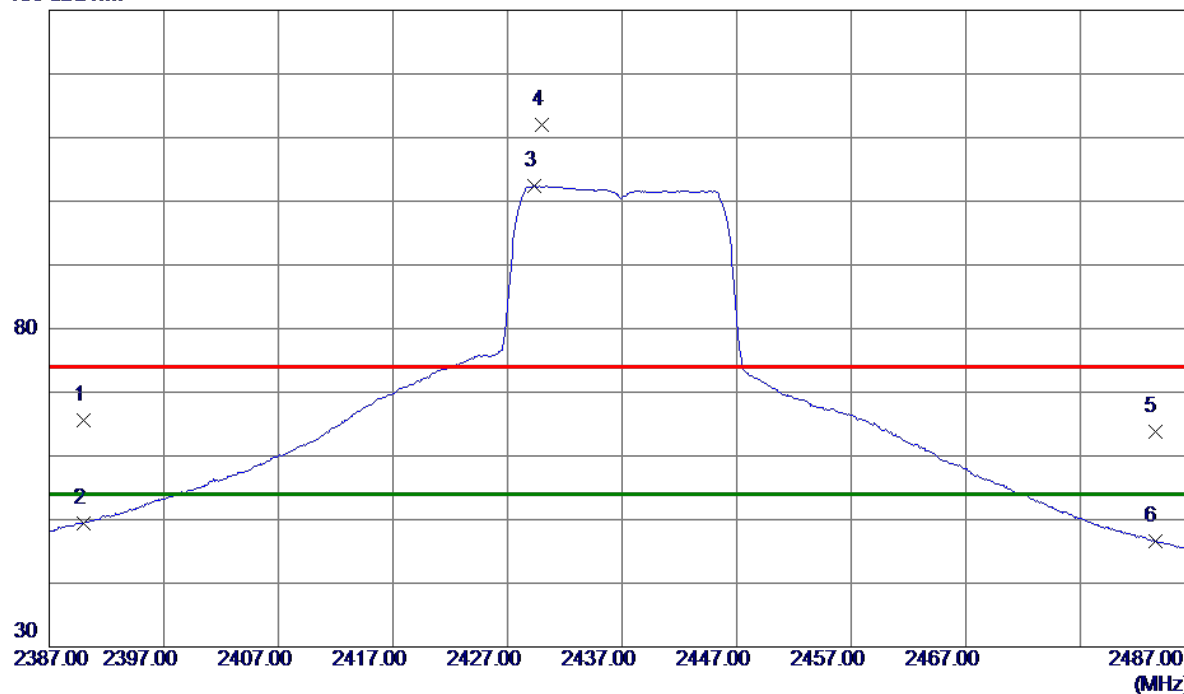
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4833.2000	43.55	5.55	49.10	54.00	-4.90	AVG	
2	4832.4500	58.91	5.55	64.46	74.00	-9.54	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	56.76	8.81	65.57	74.00	-8.43	Peak	
2	2390.0000	40.67	8.81	49.48	54.00	-4.52	AVG	
3 *	2429.3000	93.44	8.97	102.41	54.00	48.41	AVG	No Limit
4	2430.0000	103.09	8.98	112.07	74.00	38.07	Peak	No Limit
5	2483.5000	54.66	9.20	63.86	74.00	-10.14	Peak	
6	2483.5000	37.46	9.20	46.66	54.00	-7.34	AVG	

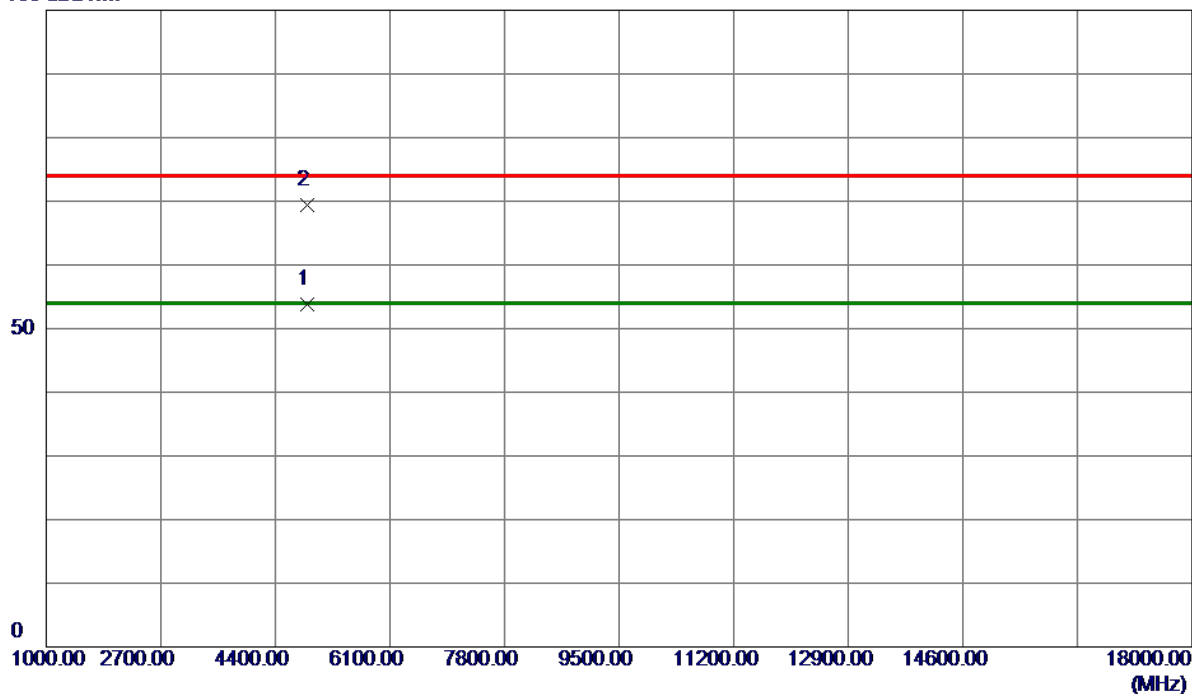
REMARKS:

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

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.4000	48.18	5.60	53.78	54.00	-0.22	AVG	
2	4866.5000	63.77	5.59	69.36	74.00	-4.64	Peak	

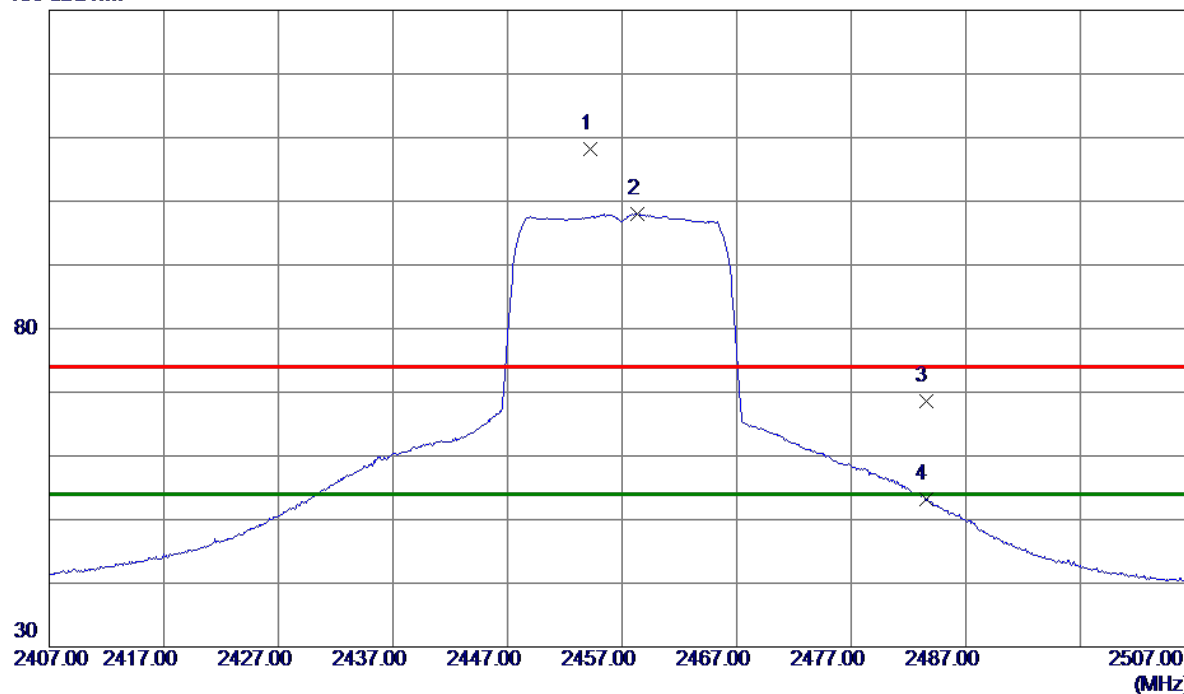
REMARKS:

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

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

Test Mode	TX N(HT20) Mode 2457 MHz	Polarization	Vertical
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130 dBuV/m



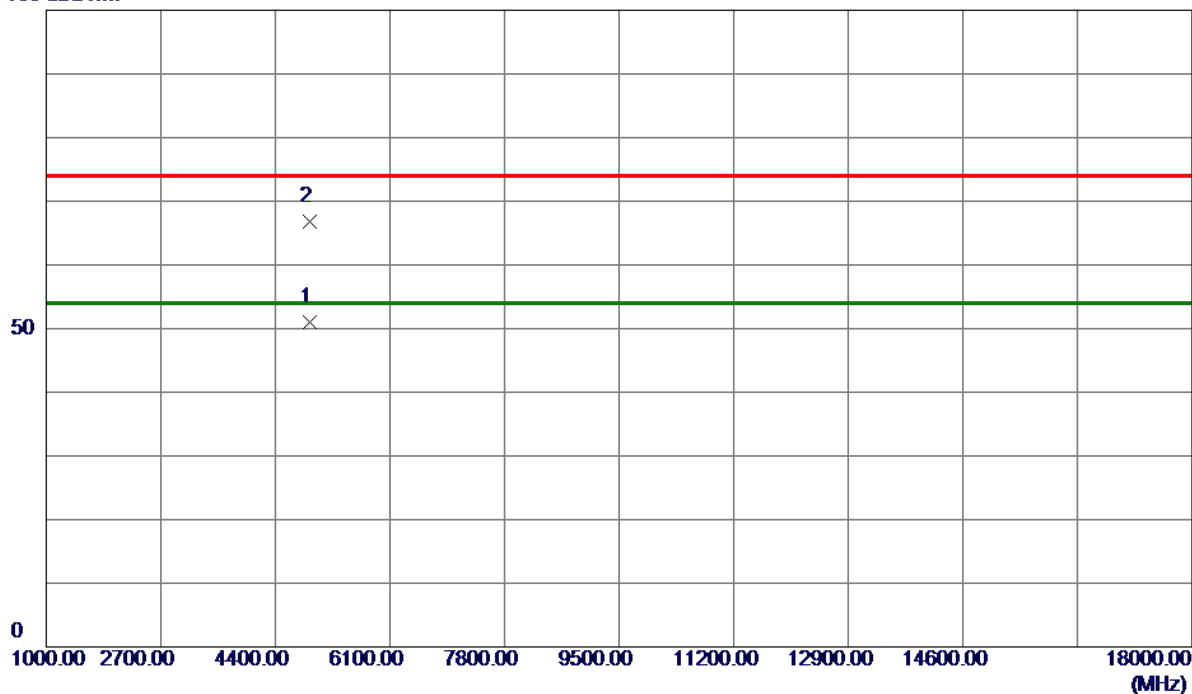
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2454.2000	99.10	9.08	108.18	74.00	34.18	Peak	No Limit
2 *	2458.3000	88.95	9.09	98.04	54.00	44.04	AVG	No Limit
3	2483.5000	59.46	9.20	68.66	74.00	-5.34	Peak	
4	2483.5000	44.06	9.20	53.26	54.00	-0.74	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2457 MHz	Polarization	Vertical
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100 dBuV/m



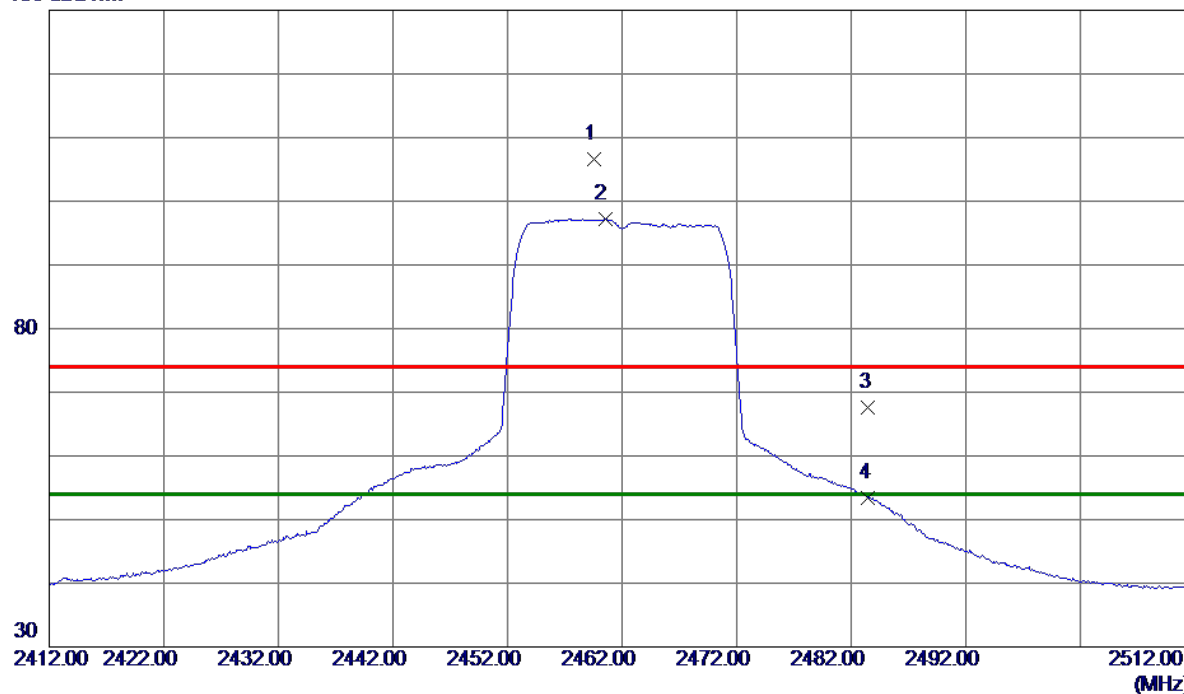
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4913.1000	45.28	5.66	50.94	54.00	-3.06	AVG	
2	4914.7500	61.05	5.66	66.71	74.00	-7.29	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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130 dBuV/m



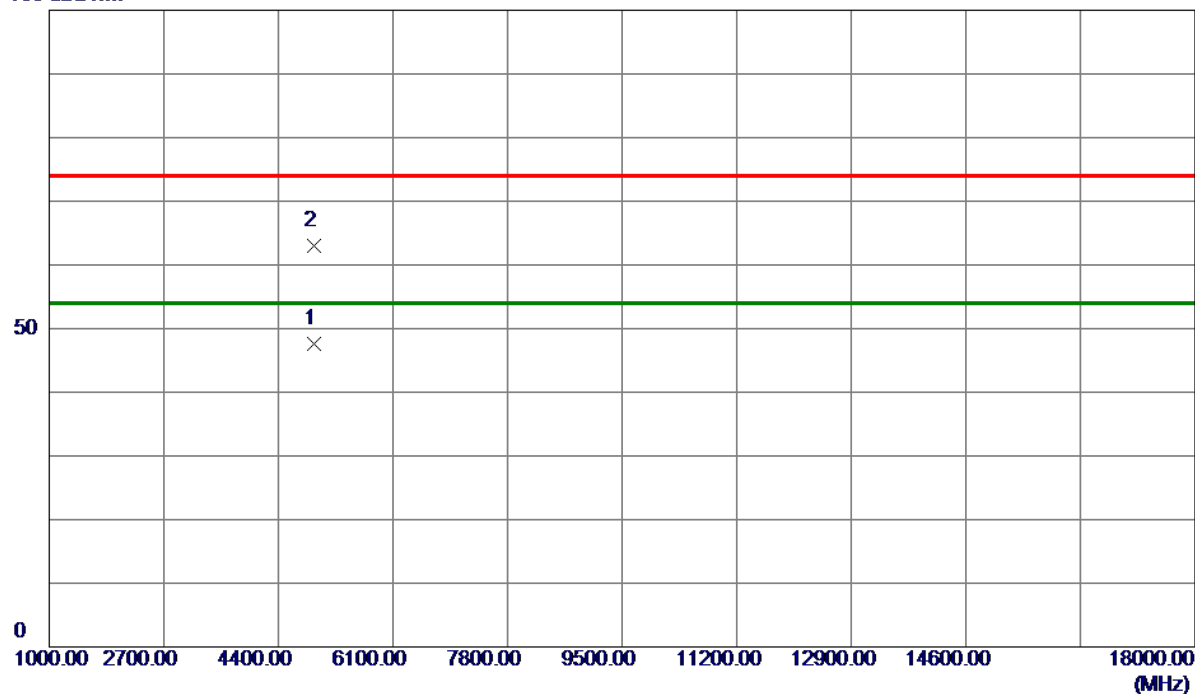
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2459.6000	97.54	9.10	106.64	74.00	32.64	Peak	No Limit
2 *	2460.5000	88.16	9.10	97.26	54.00	43.26	AVG	No Limit
3	2483.5000	58.43	9.20	67.63	74.00	-6.37	Peak	
4	2483.5000	44.29	9.20	53.49	54.00	-0.51	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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100 dBuV/m

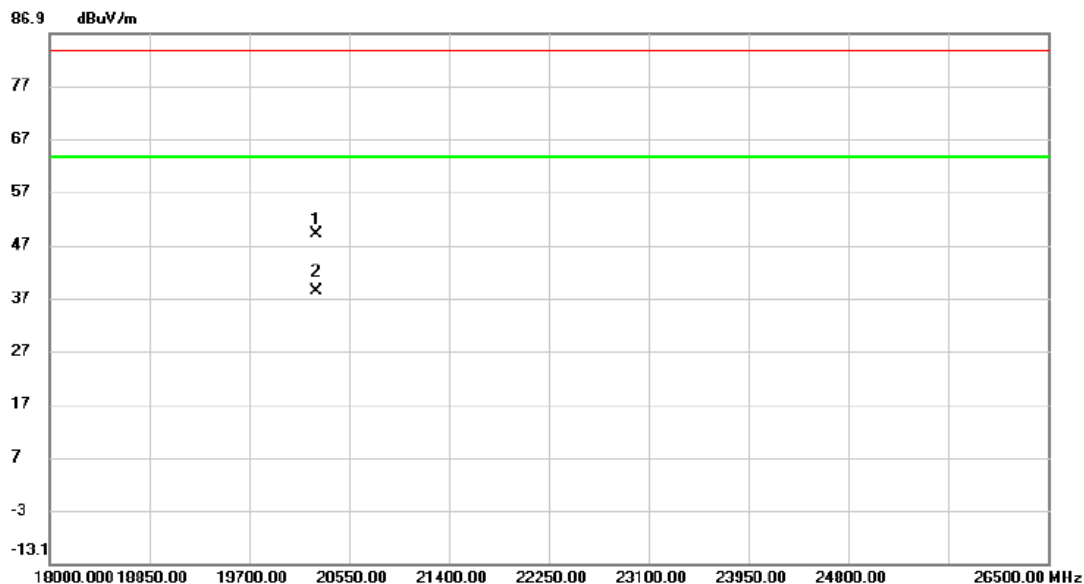


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.4500	41.90	5.67	47.57	54.00	-6.43	AVG	
2	4921.9500	57.27	5.67	62.94	74.00	-11.06	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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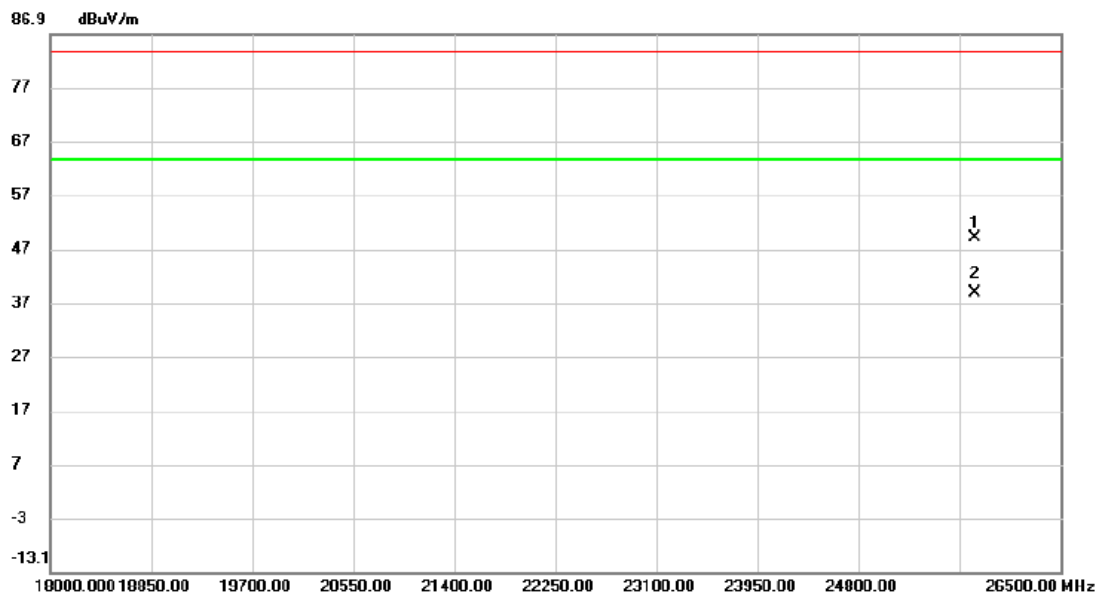


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		20269.500	47.92	1.23	49.15	83.50	-34.35	peak	
2	*	20269.500	37.17	1.23	38.40	63.50	-25.10	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		25777.500	42.36	6.65	49.01	83.50	-34.49	peak	
2	*	25777.500	32.11	6.65	38.76	63.50	-24.74	AVG	

REMARKS:

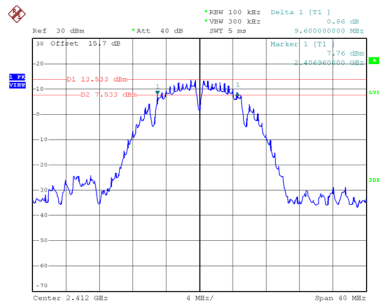
- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	TX B Mode
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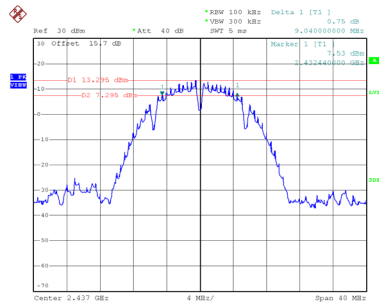
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	9.600	13.920	0.5	Pass
06	2437	9.040	14.000	0.5	Pass
11	2462	9.120	13.760	0.5	Pass

CH01



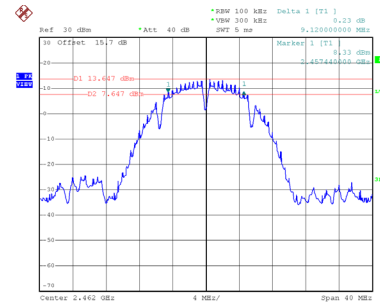
Date: 25.AUG.2025 17:32:57

CH06
6 dB Bandwidth



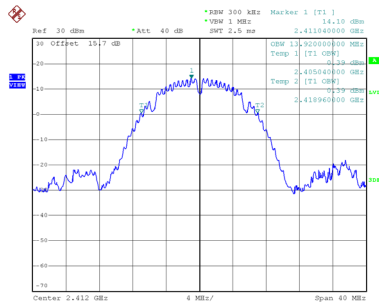
Date: 25.AUG.2025 17:33:31

CH11

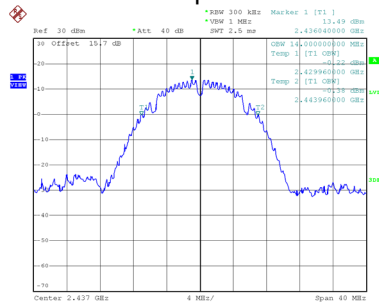


Date: 25.AUG.2025 17:34:14

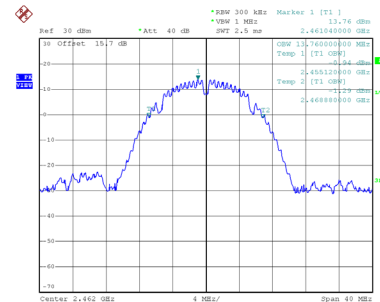
99 % Occupied Bandwidth



Date: 25.AUG.2025 17:38:54



Date: 25.AUG.2025 17:39:15

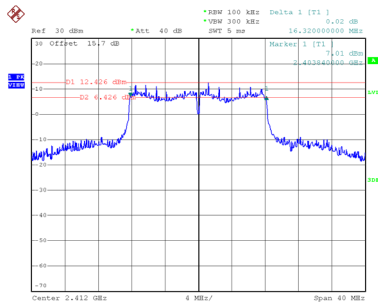


Date: 25.AUG.2025 17:39:40

Test Mode	TX G Mode
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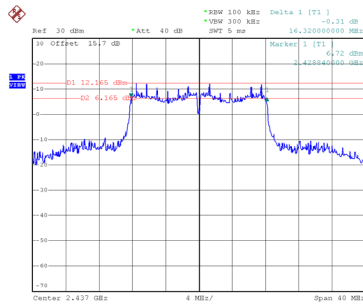
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.320	23.520	0.5	Pass
06	2437	16.320	22.560	0.5	Pass
11	2462	16.320	22.560	0.5	Pass

CH01



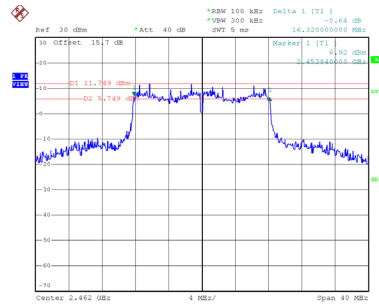
Date: 25.AUG.2025 17:34:48

CH06
6 dB Bandwidth



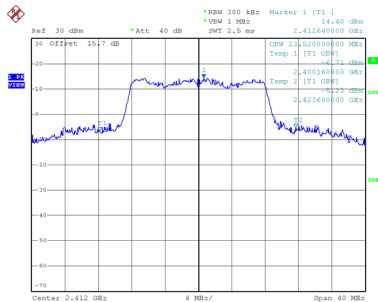
Date: 25.AUG.2025 17:35:08

CH11

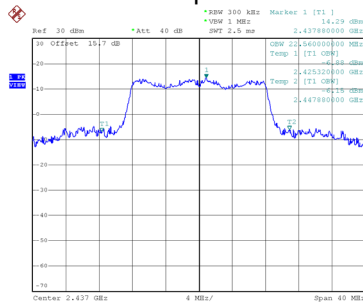


Date: 25.AUG.2025 17:36:09

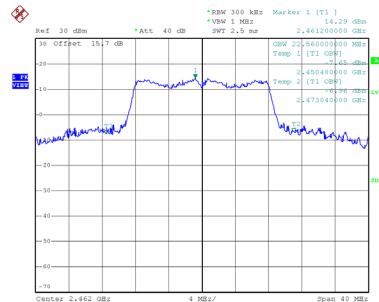
99 % Occupied Bandwidth



Date: 25.AUG.2025 17:40:18



Date: 25.AUG.2025 17:41:14

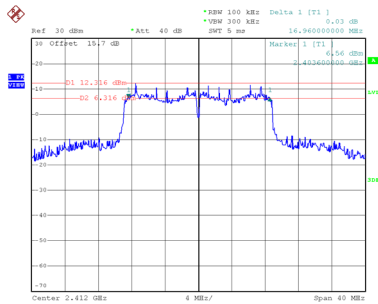


Date: 25.AUG.2025 17:41:38

Test Mode	TX N(HT20) Mode
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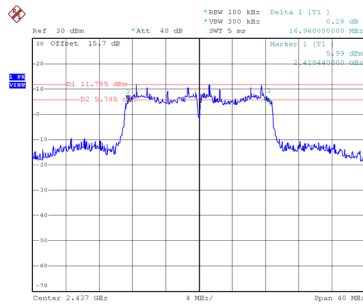
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.960	24.320	0.5	Pass
06	2437	16.960	23.200	0.5	Pass
11	2462	16.560	22.800	0.5	Pass

CH01



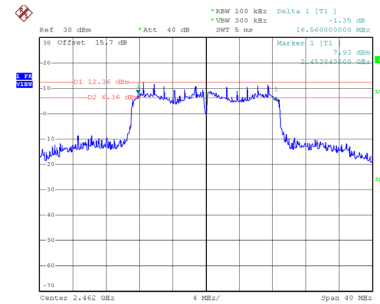
Date: 25.AUG.2025 17:36:32

CH06
6 dB Bandwidth



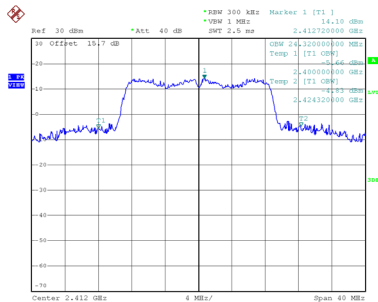
Date: 25.AUG.2025 17:37:17

CH11

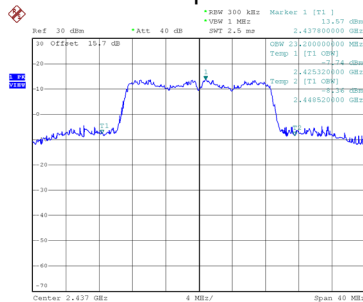


Date: 25.AUG.2025 17:38:27

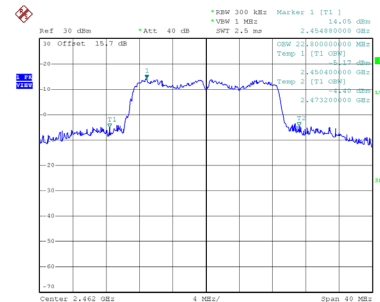
99 % Occupied Bandwidth



Date: 25.AUG.2025 17:42:10



Date: 25.AUG.2025 17:42:36



Date: 25.AUG.2025 17:42:58

APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	TX B Mode_Ant 1
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	19.23	0.00	19.23	30.00	1.0000	Pass
06	2437	20.16	0.00	20.16	30.00	1.0000	Pass
11	2462	19.45	0.00	19.45	30.00	1.0000	Pass

Test Mode	TX G Mode_Ant 1
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	16.84	0.11	16.95	30.00	1.0000	Pass
06	2437	20.80	0.11	20.91	30.00	1.0000	Pass
11	2462	20.12	0.11	20.23	30.00	1.0000	Pass

Test Mode	TX N(HT20) Mode_Ant 1
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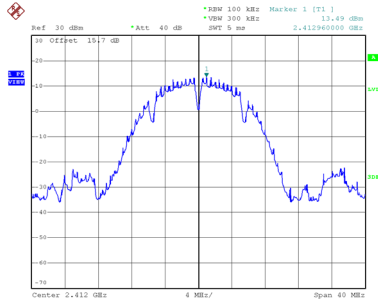
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dB)	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	16.37	0.12	16.49	30.00	1.0000	Pass
06	2437	21.45	0.12	21.57	30.00	1.0000	Pass
11	2462	18.06	0.12	18.18	30.00	1.0000	Pass

Note: Output power = Measure result + Cable loss

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

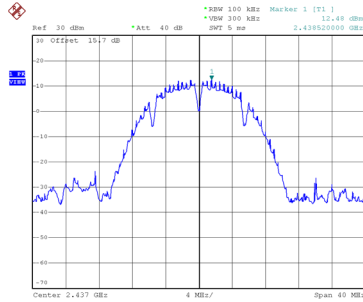
Test Mode TX B Mode_Ant. 1

Reference Level-CH01



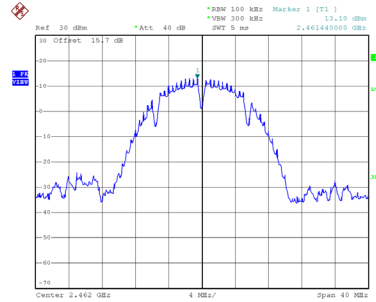
Date: 25.AUG.2025 17:52:10

Reference Level-CH06



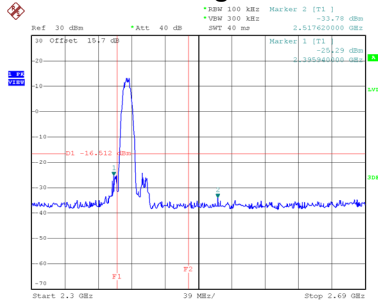
Date: 25.AUG.2025 17:52:49

Reference Level-CH11



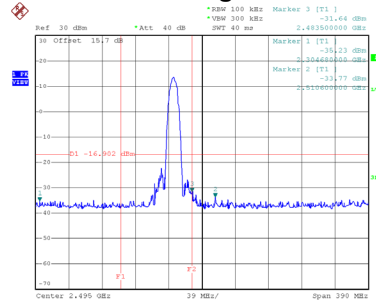
Date: 25.AUG.2025 17:53:12

Bandedge-CH01



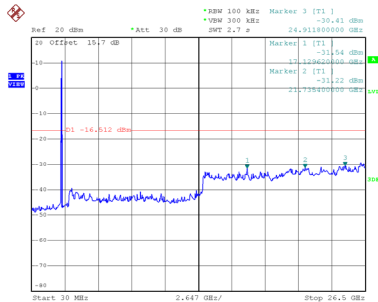
Date: 25.AUG.2025 17:53:14

Bandedge-CH11



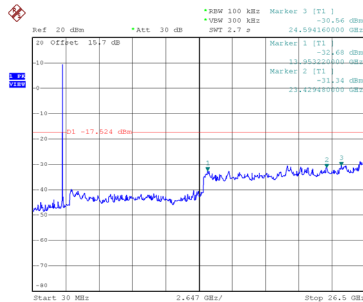
Date: 28.AUG.2025 15:15:33

Harmonic-CH01



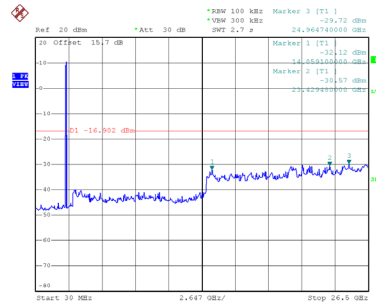
Date: 25.AUG.2025 17:55:17

Harmonic-CH06



Date: 25.AUG.2025 17:55:46

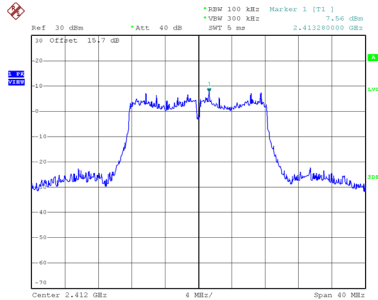
Harmonic-CH11



Date: 25.AUG.2025 17:56:08

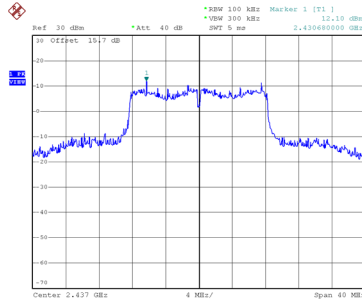
Test Mode TX G Mode_Ant. 1

Reference Level-CH01



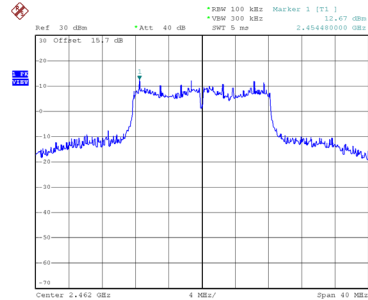
Date: 25.AUG.2025 18:41:56

Reference Level-CH06



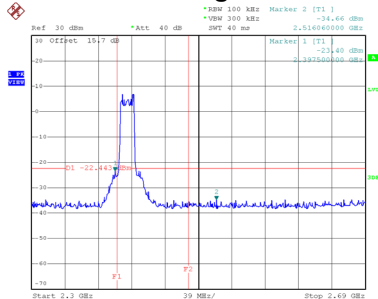
Date: 25.AUG.2025 18:44:44

Reference Level-CH11



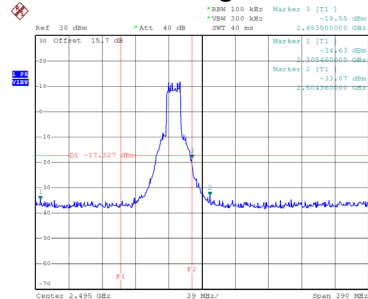
Date: 25.AUG.2025 18:51:55

Bandedge-CH01



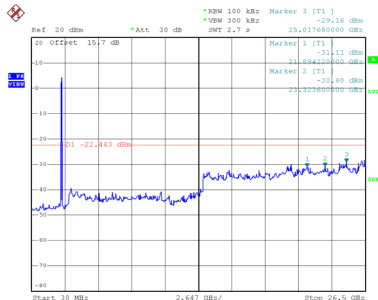
Date: 25.AUG.2025 18:42:08

Bandedge-CH11



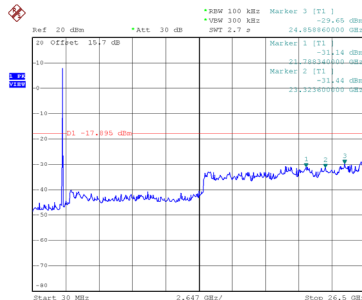
Date: 28.AUG.2025 15:18:18

Harmonic-CH01



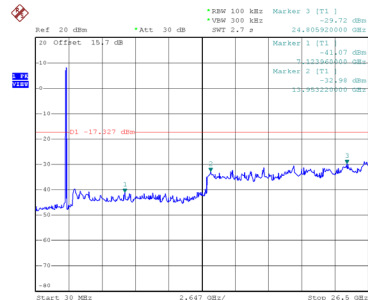
Date: 25.AUG.2025 18:42:21

Harmonic-CH06



Date: 25.AUG.2025 18:45:10

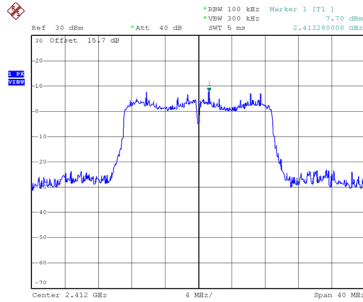
Harmonic-CH11



Date: 25.AUG.2025 18:52:21

Test Mode TX N(HT20) Mode_Ant. 1

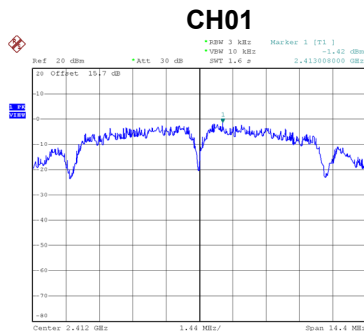
Reference Level-CH01



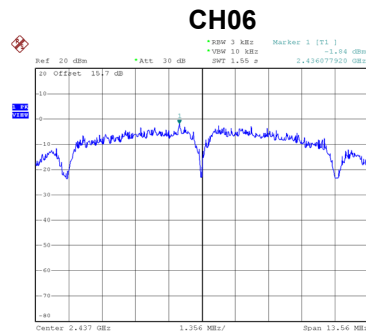
APPENDIX H - POWER SPECTRAL DENSITY

Test Mode	TX B Mode_Ant. 1
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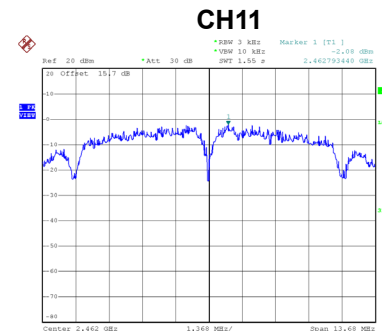
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-1.42	8.00	Pass
06	2437	-1.84	8.00	Pass
11	2462	-2.08	8.00	Pass



Date: 25.AUG.2025 19:15:12



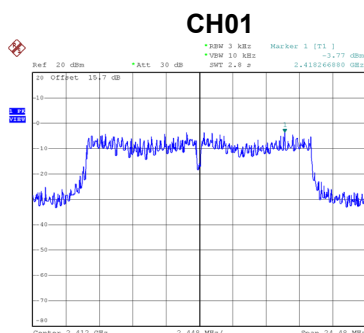
Date: 25.AUG.2025 19:15:50



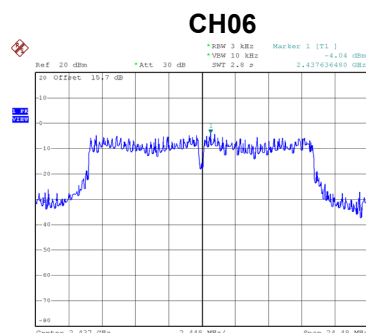
Date: 25.AUG.2025 19:16:12

Test Mode	TX G Mode_Ant. 1
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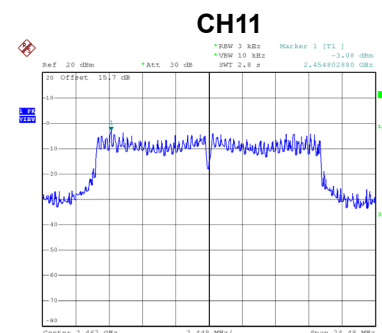
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-3.77	8.00	Pass
06	2437	-4.04	8.00	Pass
11	2462	-3.08	8.00	Pass



Date: 25.AUG.2025 19:17:44



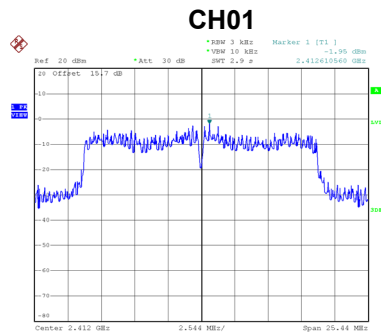
Date: 25.AUG.2025 19:18:18



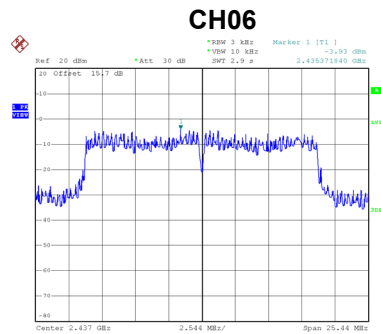
Date: 25.AUG.2025 19:18:49

Test Mode	TX N(HT20) Mode_Ant. 1
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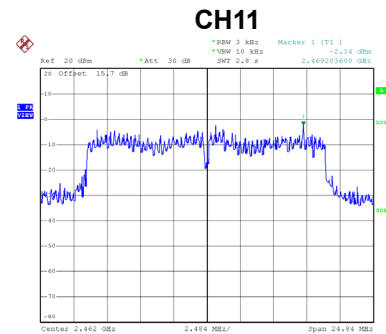
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-1.95	8.00	Pass
06	2437	-3.93	8.00	Pass
11	2462	-2.34	8.00	Pass



Date: 25.AUG.2025 19:19:18



Date: 25.AUG.2025 19:19:41



Date: 25.AUG.2025 19:20:52

End of Test Report