



# FCC Radio Test Report

## FCC ID: RAS-MT7925B22M

**This report concerns: Class II Permissive Change**

**Project No.** : 2410C388C  
**Equipment** : 2TX 11be (WiFi7)BW160 + BT/BLE Combo Card  
**Brand Name** : MEDIATEK  
**Test Model** : MT7925B22M  
**Series Model** : N/A  
**Applicant** : MediaTek Inc.  
**Address** : No.1, Dusing 1st Rd., Hsinchu Science Park, Hsinchu City, 30078 Taiwan  
**Manufacturer** : MediaTek Inc.  
**Address** : No.1, Dusing 1st Rd., Hsinchu Science Park, Hsinchu City, 30078 Taiwan  
**Date of Receipt** : Dec. 12, 2024  
Feb. 25, 2025  
**Date of Test** : Dec. 12, 2024 ~ Jan. 08, 2025  
Feb. 26, 2025 ~ Mar. 06, 2025  
**Issued Date** : Mar. 19, 2025  
**Report Version** : R00  
**Test Sample** : Sample No.: DG20241212233, DG20250225160  
**Standard(s)** : FCC CFR Title 47, Part 15, Subpart E

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

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**Declaration**

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

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

The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

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: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

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

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

**Limitation**

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

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

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**REPORT ISSUED HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-4-2410C388C	R00	<p>This is a supplementary report to the original test report (BTL-FCCP-4-2410C388).</p> <p>1. The platform added the model: RZ09-0528M2.</p> <p>2. The platform added a MB2 motherboard.</p> <p>3. The platform added an adapter.</p> <p>4. The platform added two GPUs.</p> <p>Above new device only for the new model: RZ09-0528M2, so the Radiated Emission below 1GHz and AC Power Line Conducted Emissions had been retested and recorded in this report. Other measurement results are kept the same with original report.</p>	Mar. 19, 2025	Valid

## 1. APPLICABLE STANDARDS

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

ANSI C63.10-2013

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

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart E				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207 15.407(b)	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.407(b) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) Implementation in the following platform

Model name: RZ09-0528, RZ09-0528M2

Model Difference: The only difference in PCB layout between MB1 and MB2 motherboards is in the graphics card memory and graphics card power supply.

Product name: Notebook PC

Brand name:  or  or RAZER

## 2.1 TEST FACILITY

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

For **Radiated Emissions-30 MHz to 1000 MHz item**: Room 102 & Room 702, Building 3, No.9, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China.

For **other items**: 1-2/F, 4/F, Building A, 1-2/F, Building B, 3/F, Building C, No.3, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China.

BTL's Registration Number for FCC: 747969

BTL's Designation Number for FCC: CN1377

## 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% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	$U_{\text{(dB)}}$
DG-C02	CISPR	150kHz ~ 30MHz	2.88

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	$U_{\text{(dB)}}$
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	$U_{\text{(dB)}}$
DG-CB17 (3m)	CISPR	30MHz ~ 200MHz	V	4.22
		30MHz ~ 200MHz	H	3.46
		200MHz ~ 1,000MHz	V	5.02
		200MHz ~ 1,000MHz	H	4.22

Test Site	Method	Measurement Frequency Range	$U_{\text{(dB)}}$
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	4.08
		6GHz ~ 18GHz	4.62

Test Site	Method	Measurement Frequency Range	$U_{\text{(dB)}}$
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.36
		26.5 ~ 40 GHz	3.58

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	22°C	55%	AC 120V/60Hz	Hayden Chen	Feb. 27, 2025
Radiated Emissions-9kHz to 30MHz	26°C	47%	AC 120V/60Hz	Hayden Chen	Dec. 17, 2024
Radiated Emissions-30MHz to 1000MHz	25°C	46%	AC 120V/60Hz	Calvin Wen	Feb. 28, 2025
Radiated Emissions-Above 1000 MHz	22°C	40%	AC 120V/60Hz	Allen Tong	Dec. 19, 2024
	24°C	59%	AC 120V/60Hz	Allen Tong	Dec. 23, 2024

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	2TX 11be (WiFi7)BW160 + BT/BLE Combo Card
Brand Name	MEDIATEK
Test Model	MT7925B22M
Series Model	N/A
Model Difference(s)	N/A
Software Version	Windows 11
Hardware Version	APF24002_MB MB1 APF24002_MB MB2
Power Source	1# DC voltage supplied from AC adapter. 1)Model: ADP-280EB D 2)Model: ADP-200JB F 2# Supplied from battery. Model: RC30-0528
Power Rating	1# 1) I/P: 100-240V~ 3.2A 50-60Hz O/P: 20.0V---14.0A 2) I/P: 100-240V~ 2.5A 50-60Hz O/P: 20.0V---10.0A 2# DC 15.56V 5494mAh 85.5Wh
Operation Frequency Band(s)	UNII-1: 5150 MHz ~ 5250 MHz UNII-2A: 5250 MHz ~ 5350 MHz UNII-2C: 5470 MHz ~ 5725 MHz UNII-3: 5725 MHz ~ 5850 MHz
Modulation Type	IEEE 802.11a/n/ac: OFDM IEEE 802.11ax/be: OFDMA
Bit Rate of Transmitter	IEEE 802.11a: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ac: up to 1733.4 Mbps IEEE 802.11ax: up to 2402 Mbps IEEE 802.11be: up to 1442 Mbps

Note:

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

## 2. Channel List:

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20) IEEE 802.11be(EHT20)	IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40) IEEE 802.11be(EHT40)	IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80) IEEE 802.11be(EHT80)			
UNII-1	UNII-1	UNII-1			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20) IEEE 802.11be(EHT20)	IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40) IEEE 802.11be(EHT40)	IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80) IEEE 802.11be(EHT80)			
UNII-2A	UNII-2A	UNII-2A			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20) IEEE 802.11be(EHT20)	IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40) IEEE 802.11be(EHT40)	IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80) IEEE 802.11be(EHT80)			
UNII-2C	UNII-2C	UNII-2C			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590		
112	5560	126	5630		
116	5580	134	5670		
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20) IEEE 802.11be(EHT20)	IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40) IEEE 802.11be(EHT40)	IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80) IEEE 802.11be(EHT80)			
UNII-3	UNII-3	UNII-3			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

IEEE 802.11ac(VHT160) IEEE 802.11ax(HE160)	
Channel	Frequency (MHz)
50	5250
114	5570

**3. Antenna Specification:**

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	QUECTEL	Y4RRW0MA2AA	PIFA	I-PEX MHF4-L	3.81
2	QUECTEL	Y4RRW0MA2BA	PIFA	I-PEX MHF4-L	3.47

Note: Ant.1 refers to Main Antenna, Ant.2 refers to Aux Antenna.

### 3.2 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 AX(HE40) Mode Channel 54(UNII-2A)
Mode 2	TX AX(HE40) Mode Channel 110(UNII-2C)

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 1	TX AX(HE40) Mode Channel 54(UNII-2A)

#### **Radiated Emissions Test - Below 1GHz**

Final Test Mode	Description
Mode 1	TX AX(HE40) Mode Channel 54(UNII-2A)

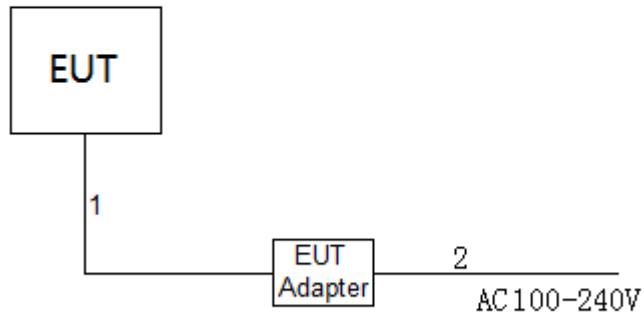
#### **Radiated Emissions Test - 1GHz to 18GHz**

Final Test Mode	Description
Mode 1	TX AX(HE40) Mode Channel 54(UNII-2A)
Mode 2	TX AX(HE40) Mode Channel 110(UNII-2C)

#### **Radiated Emissions Test - Above 18GHz**

Final Test Mode	Description
Mode 1	TX AX(HE40) Mode Channel 54(UNII-2A)

### 3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



### 3.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.5M
2	AC Cable	NO	NO	1.0M

### 3.5 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. All cable losses are provided by the testing laboratory.

## 4. AC POWER LINE CONDUCTED EMISSIONS

### 4.1 LIMIT

Frequency (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:  
Measurement Value = Reading Level + Correct Factor  
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)  
Margin Level = Measurement Value – Limit Value

### 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.

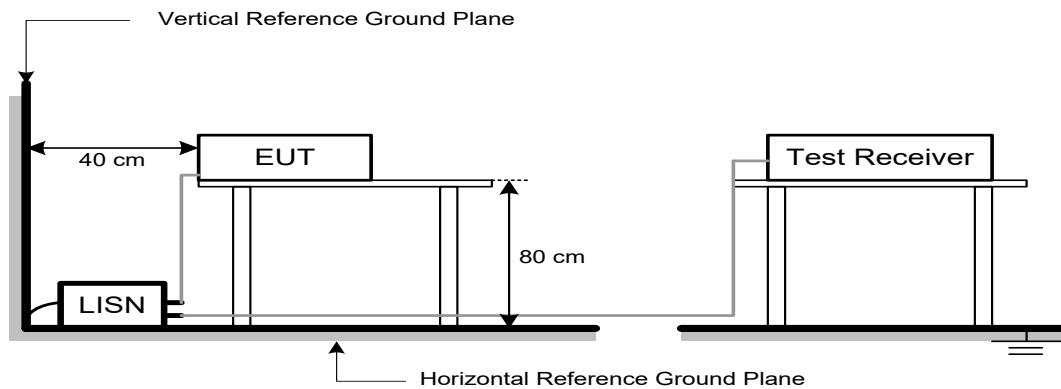
The following table is the setting of the receiver:

Receiver Parameter	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

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT was programmed to be in continuously transmitting/TX 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 EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

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

#### LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS (Above 1000 MHz)

Frequency (MHz)	EIRP Limit (dBm/MHz)	Band edge at 3m (dB $\mu$ V/m)	Harmonic at 1m (dB $\mu$ V/m)
5150-5250	-27	68.2	77.7 (Note 3)
5250-5350	-27	68.2	77.7 (Note 3)
5470-5725	-27	68.2	77.7 (Note 3)
	-27	68.2	77.7 (Note 3)
5725-5850	10	105.2	114.7 (Note 3)
<b>NOTE (2)</b>	15.6	110.8	120.3 (Note 3)
	27	122.2	131.7 (Note 3)

#### NOTE:

(1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m}, \text{ where } P \text{ is the eirp (Watts)}$$

(2) According to 15.407(b)(4)(i), all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(3)

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

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

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

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

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

$d_{\text{measure}}$ : 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 1GHz)
- 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 or 40 GHz, whichever is lower
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

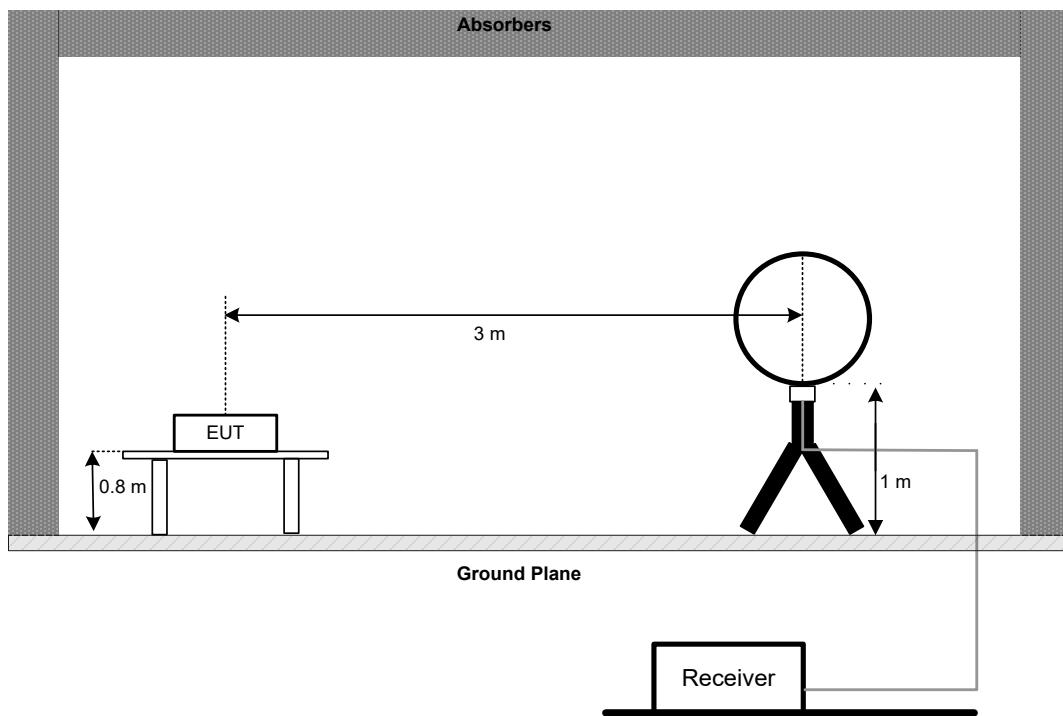
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~40 GHz for PK/AVG detector

### 5.3 DEVIATION FROM TEST STANDARD

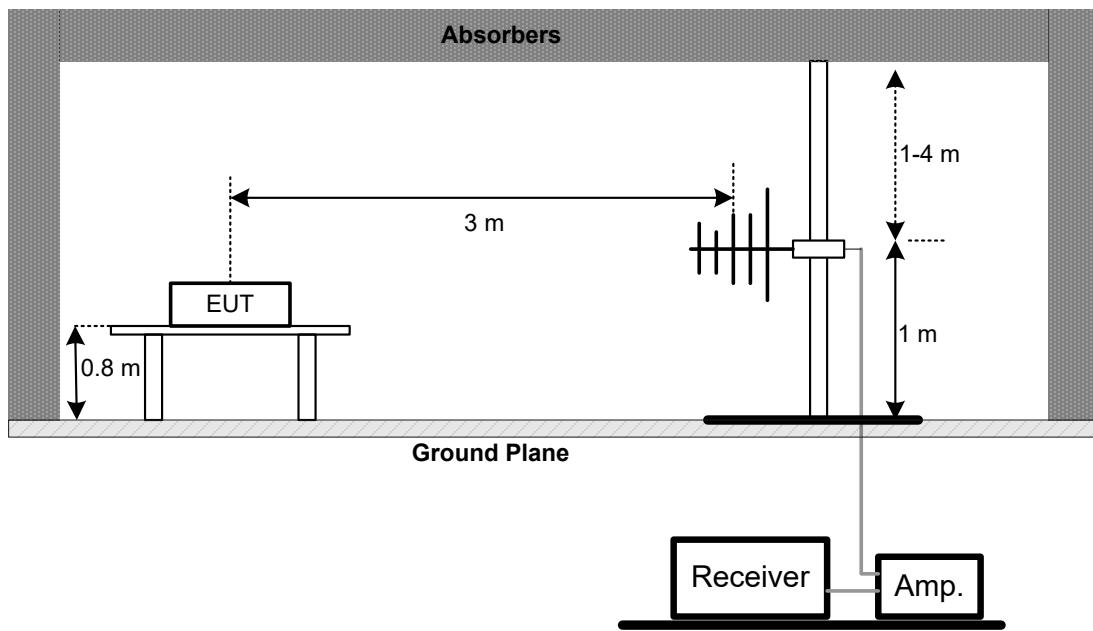
No deviation.

### 5.4 TEST SETUP

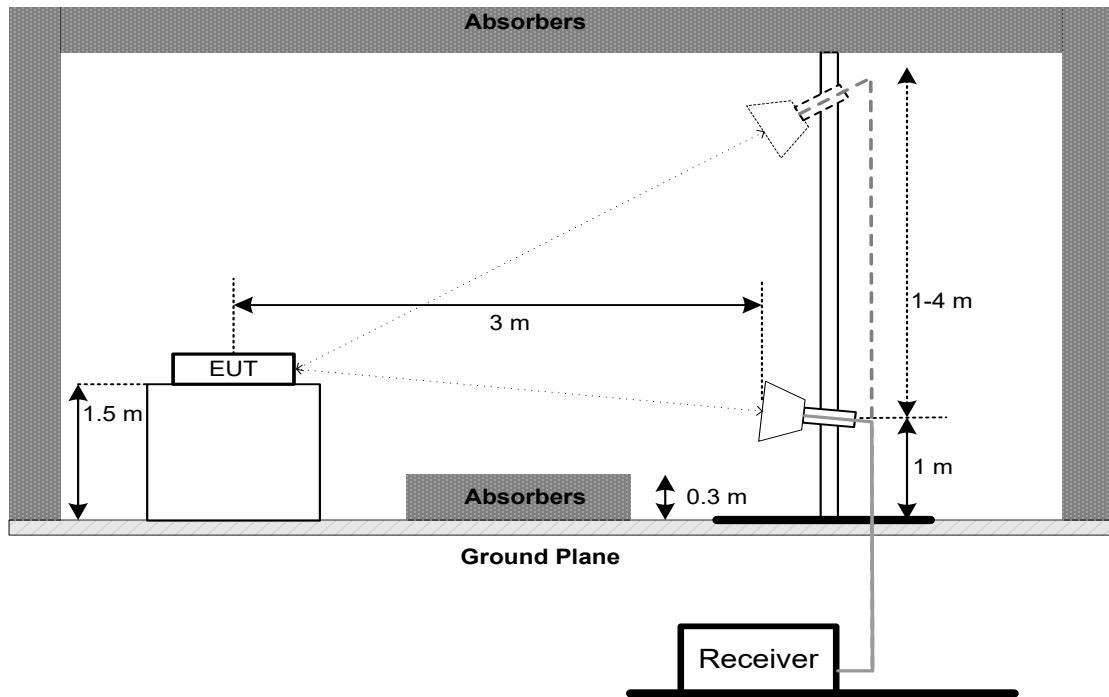
9 kHz to 30 MHz



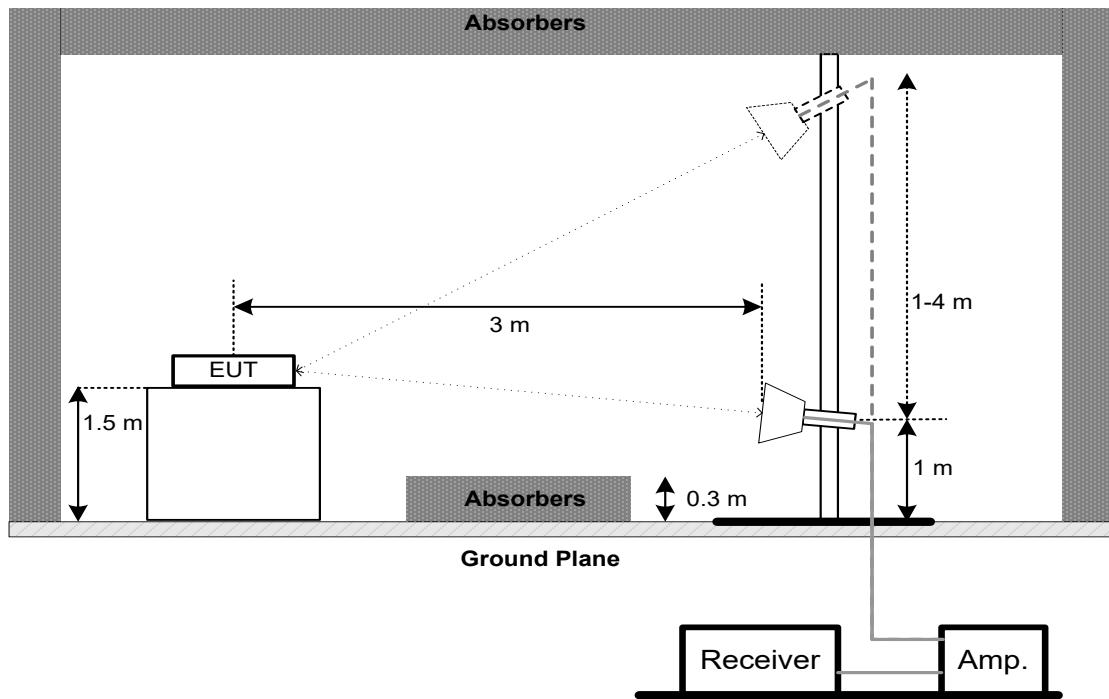
30 MHz to 1 GHz

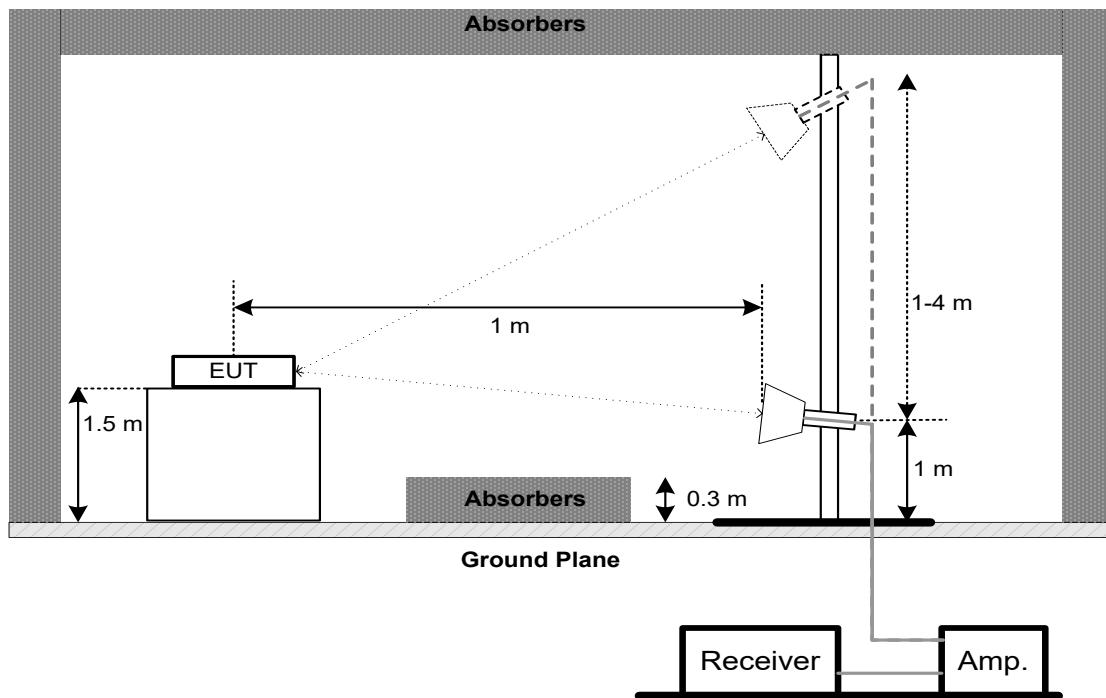


**Above 1 GHz**  
Band edge



**Harmonic (1 GHz to 18 GHz)**



**Harmonic (18 GHz to 40 GHz)****5.5 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

**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. 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 1513-60B	1513-60 B-034	Mar. 30, 2025
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 22, 2024
3	Cable	N/A	RW4950-3.8A-NMS M-1.5	N/A	Nov. 12, 2025
4	Cable	N/A	LMR400-NMNM-8 M	N/A	Nov. 12, 2025
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	966 Chamber room	ETS	9*6*6	N/A	May 16, 2025

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	1587	Apr. 25, 2025
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06010	Apr. 25, 2025
3	Preamplifier	EMC INSTRUMENT	EMC001330	980865	Oct. 29, 2025
4	Cable	RegalWay	LMR400-NMNM-2. 5m	N/A	Jan. 07, 2026
5	Cable	RegalWay	LMR400-NMNM-7 m	N/A	Jan. 07, 2026
6	Cable	RegalWay	LMR400-NMNM-3 m	N/A	Jan. 07, 2026
7	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
8	Multi-Device Controller	ETS-Lindgren	N/A	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	966 Chamber room	ETS	9*6*6	N/A	Jan. 02, 2026

<b>Radiated Emissions - Above 1 GHz</b>					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63380204	Oct. 29, 2025
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Oct. 29, 2025
3	Double Ridged Guide Antenna	ETS	3115	75789	Jun. 15, 2025
4	Cable	RegalWay	RWLP50-4.0A-SMS M-12.5M	N/A	Jul. 03, 2025
5	966 Chamber room	CM	9*6*6	N/A	May 19, 2025
6	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Jul. 03, 2025
7	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-0.8M	N/A	Jul. 03, 2025
8	Positioning Controller	MF	MF-7802	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
11	Filter	STI	STI15-9969	N/A	May 31, 2025
12	Preamplifier	EMC INSTRUMENT	EMC184045SE	980905	Oct. 29, 2025
13	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 25, 2025
14	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025
15	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 16, 2025

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

All calibration period of equipment list is one year.

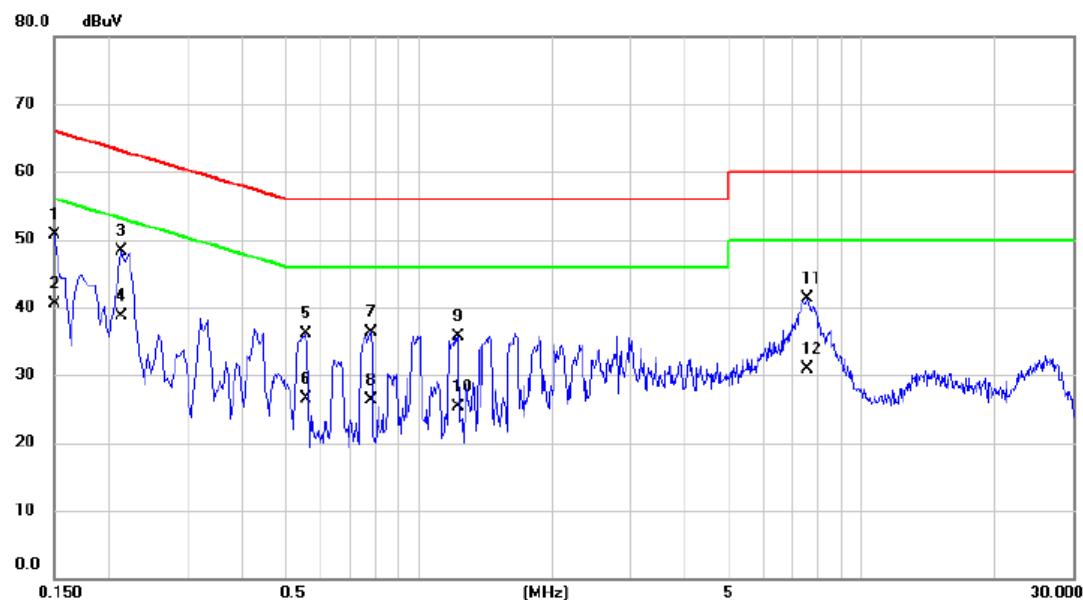
**APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS**

Test Mode

TX AX(HE40) Mode Channel 54

Phase

Line

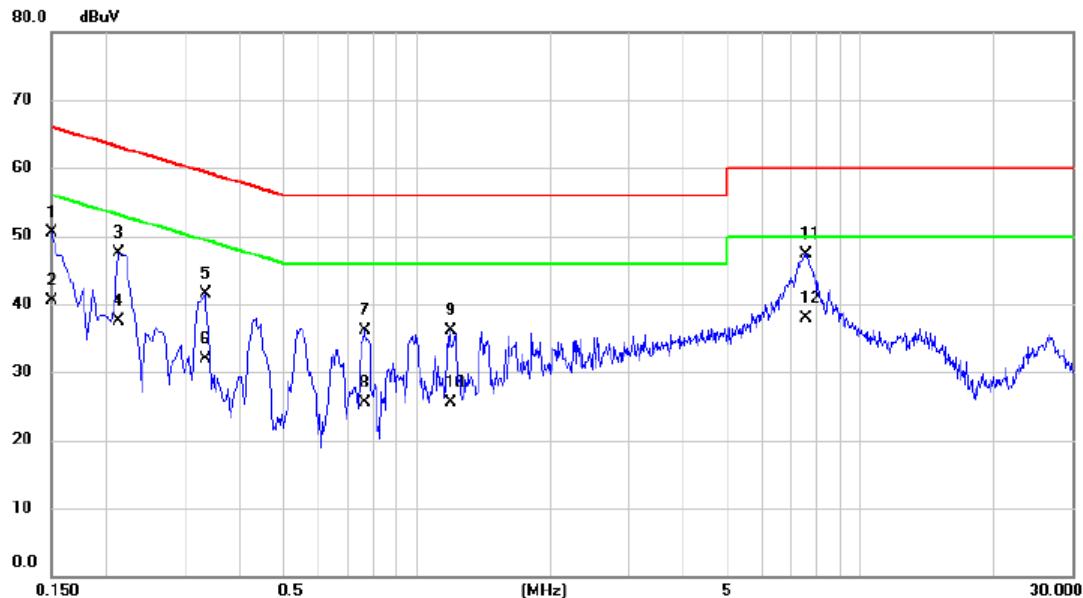


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dB	Margin Detector	Comment
1		0.1500	40.74	9.89	50.63	66.00	-15.37	QP
2		0.1500	30.60	9.89	40.49	56.00	-15.51	AVG
3		0.2130	38.35	9.90	48.25	63.09	-14.84	QP
4	*	0.2130	28.90	9.90	38.80	53.09	-14.29	AVG
5		0.5550	26.10	9.98	36.08	56.00	-19.92	QP
6		0.5550	16.50	9.98	26.48	46.00	-19.52	AVG
7		0.7800	26.32	10.03	36.35	56.00	-19.65	QP
8		0.7800	16.20	10.03	26.23	46.00	-19.77	AVG
9		1.2255	25.63	10.07	35.70	56.00	-20.30	QP
10		1.2255	15.30	10.07	25.37	46.00	-20.63	AVG
11		7.5570	29.99	11.30	41.29	60.00	-18.71	QP
12		7.5570	19.70	11.30	31.00	50.00	-19.00	AVG

## REMARKS:

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

Test Mode	TX AX(HE40) Mode Channel 54	Phase	Neutral
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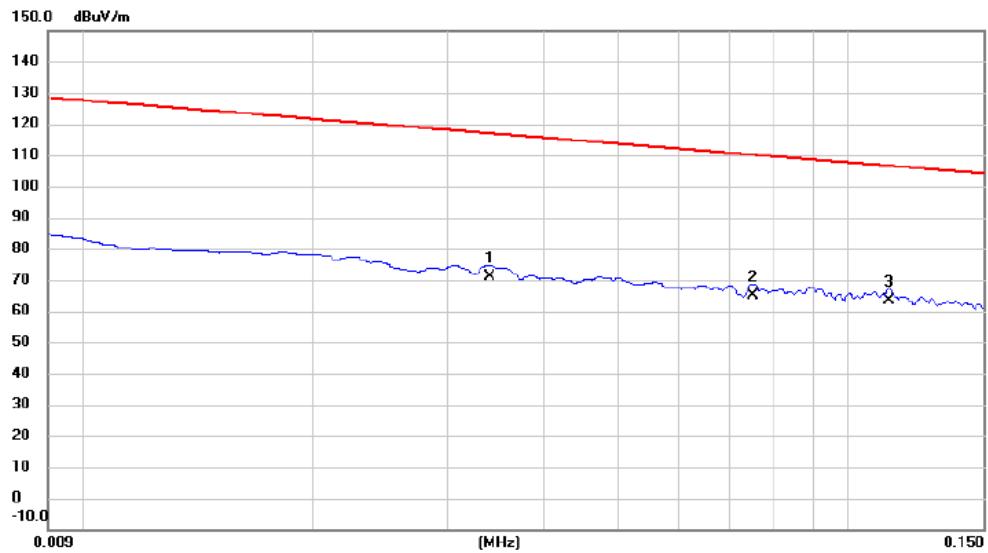
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
1		0.1500	40.48	9.97	50.45	66.00	-15.55	QP	
2		0.1500	30.60	9.97	40.57	56.00	-15.43	AVG	
3		0.2130	37.51	9.97	47.48	63.09	-15.61	QP	
4		0.2130	27.50	9.97	37.47	53.09	-15.62	AVG	
5		0.3345	31.56	9.98	41.54	59.34	-17.80	QP	
6		0.3345	21.90	9.98	31.88	49.34	-17.46	AVG	
7		0.7620	25.99	10.07	36.06	56.00	-19.94	QP	
8		0.7620	15.40	10.07	25.47	46.00	-20.53	AVG	
9		1.1895	25.88	10.13	36.01	56.00	-19.99	QP	
10		1.1895	15.30	10.13	25.43	46.00	-20.57	AVG	
11		7.5165	36.06	11.29	47.35	60.00	-12.65	QP	
12	*	7.5165	26.70	11.29	37.99	50.00	-12.01	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 AX(HE40) Mode Channel 54	Polarization	Ant 0°
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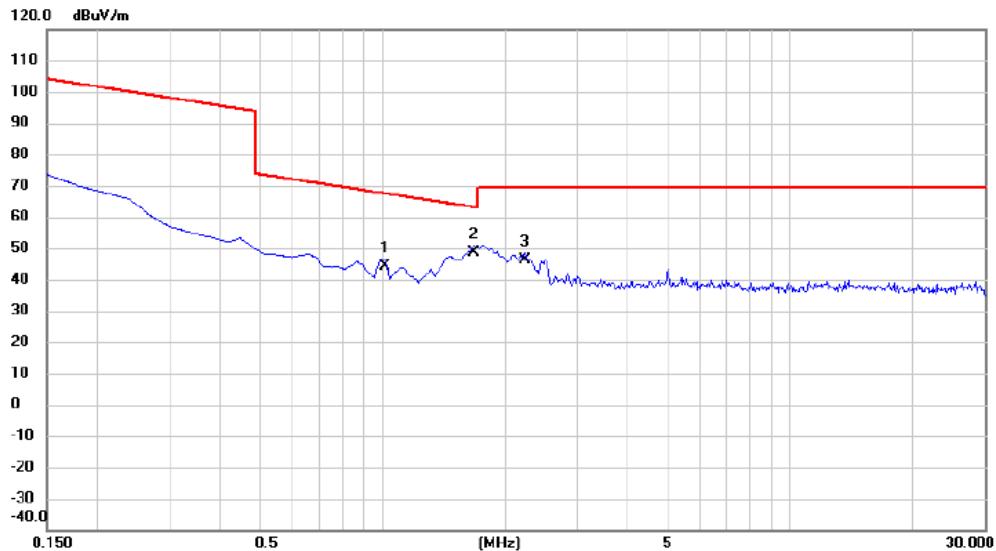


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0340	49.65	21.16	70.81	116.98	-46.17	AVG	
2		0.0751	43.51	21.32	64.83	110.09	-45.26	AVG	
3	*	0.1132	42.13	21.32	63.45	106.53	-43.08	AVG	

## REMARKS:

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

Test Mode	TX AX(HE40) Mode Channel 54	Polarization	Ant 0°
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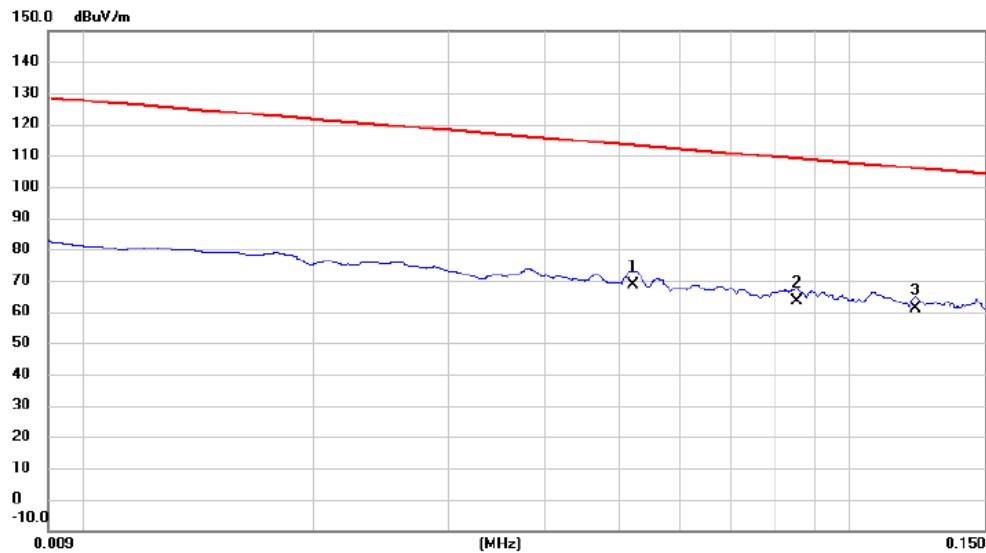


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1.0156	23.03	21.20	44.23	67.47	-23.24	QP	
2	*	1.6724	27.41	21.14	48.55	63.14	-14.59	QP	
3		2.2395	25.13	21.11	46.24	69.54	-23.30	QP	

**REMARKS:**

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

Test Mode	TX AX(HE40) Mode Channel 54	Polarization	Ant 90°
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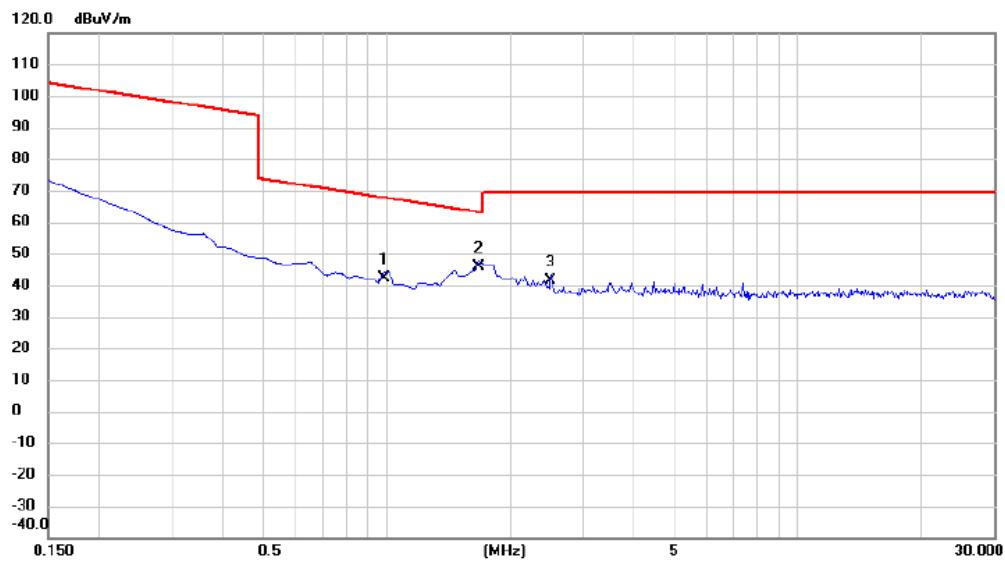


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dB			
1		0.0521	47.25	21.25	68.50	113.27	-44.77	AVG	
2		0.0853	42.13	21.34	63.47	108.99	-45.52	AVG	
3	*	0.1218	39.89	21.31	61.20	105.89	-44.69	AVG	

## REMARKS:

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

Test Mode	TX AX(HE40) Mode Channel 54	Polarization	Ant 90°
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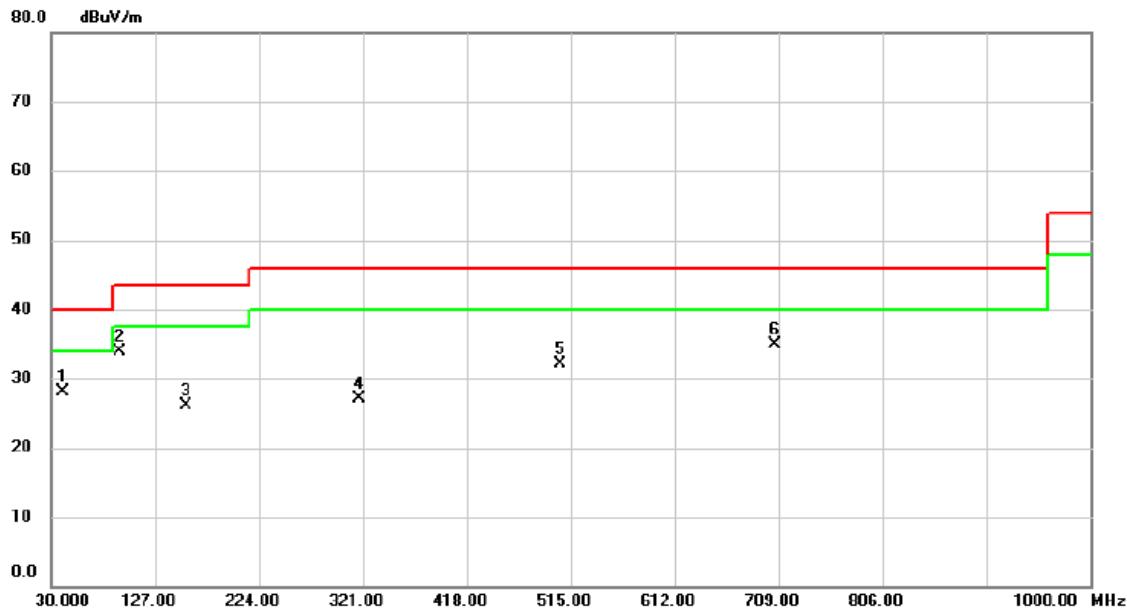
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.9858	21.03	21.20	42.23	67.73	-25.50	QP	
2	*	1.6724	24.62	21.14	45.76	63.14	-17.38	QP	
3		2.5082	20.33	21.12	41.45	69.54	-28.09	QP	

**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 AX(HE40) Mode Channel 54	Polarization	Vertical
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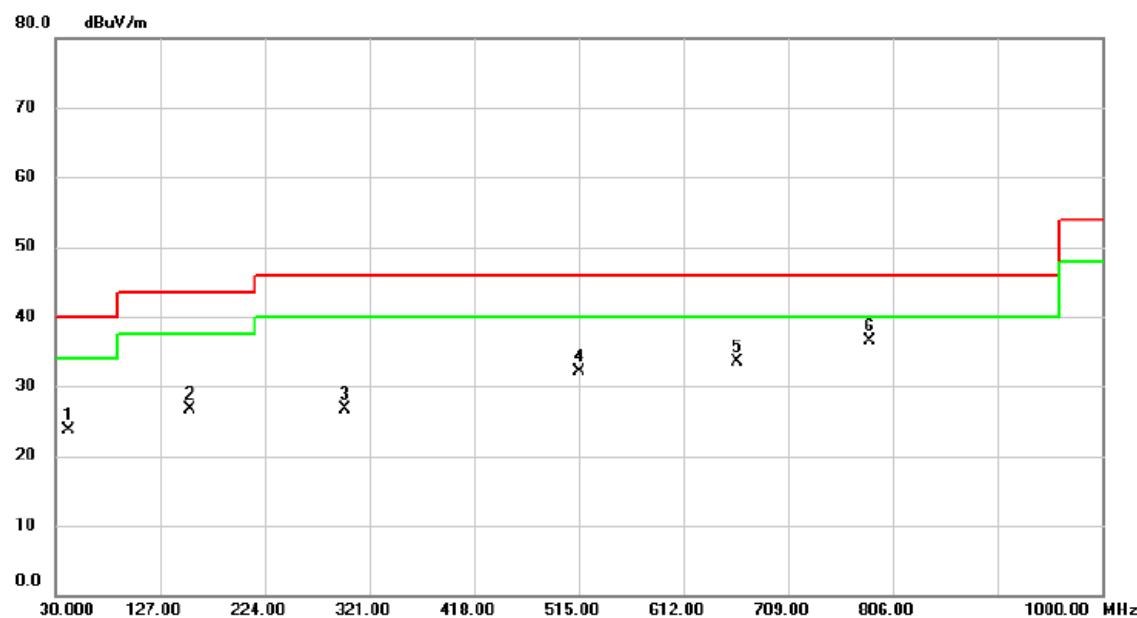


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		40.670	39.99	-11.88	28.11	40.00	-11.89	peak	
2 *		94.020	50.65	-16.80	33.85	43.50	-9.65	peak	
3		156.100	37.28	-11.23	26.05	43.50	-17.45	peak	
4		317.120	37.35	-10.31	27.04	46.00	-18.96	peak	
5		505.300	38.22	-6.17	32.05	46.00	-13.95	peak	
6		706.090	37.30	-2.36	34.94	46.00	-11.06	peak	

**REMARKS:**

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

Test Mode	TX AX(HE40) Mode Channel 54	Polarization	Horizontal
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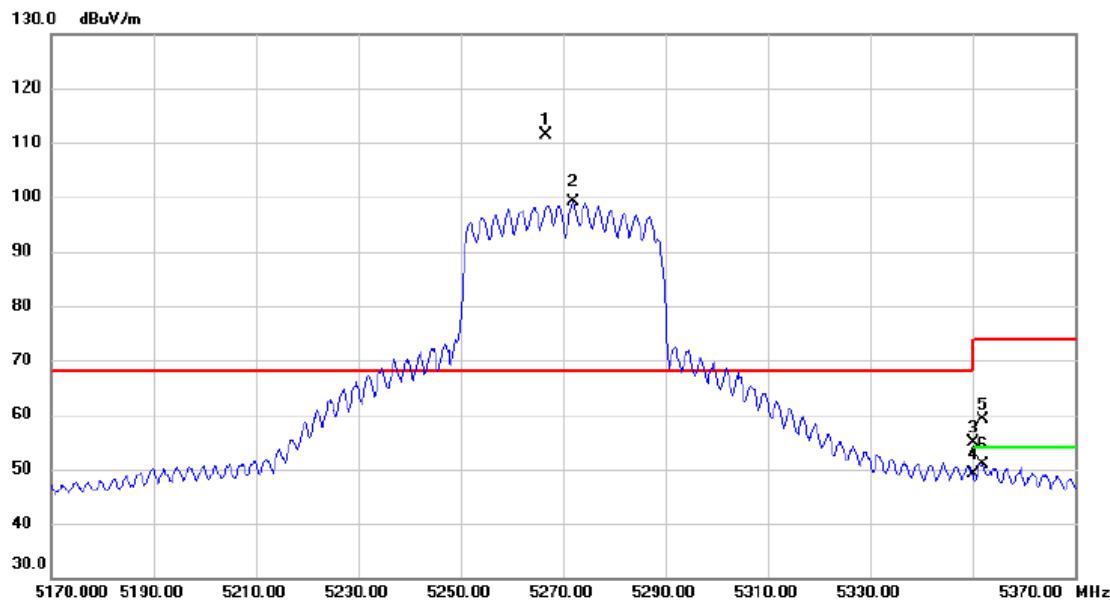
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		41.640	35.61	-11.82	23.79	40.00	-16.21	peak	
2		155.130	38.01	-11.24	26.77	43.50	-16.73	peak	
3		297.720	37.61	-10.96	26.65	46.00	-19.35	peak	
4		515.000	38.21	-6.07	32.14	46.00	-13.86	peak	
5		661.470	36.67	-3.26	33.41	46.00	-12.59	peak	
6 *		784.660	38.08	-1.59	36.49	46.00	-9.51	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	UNII-2A_TX AX(HE40) Mode 5270 MHz	Polarization	Vertical
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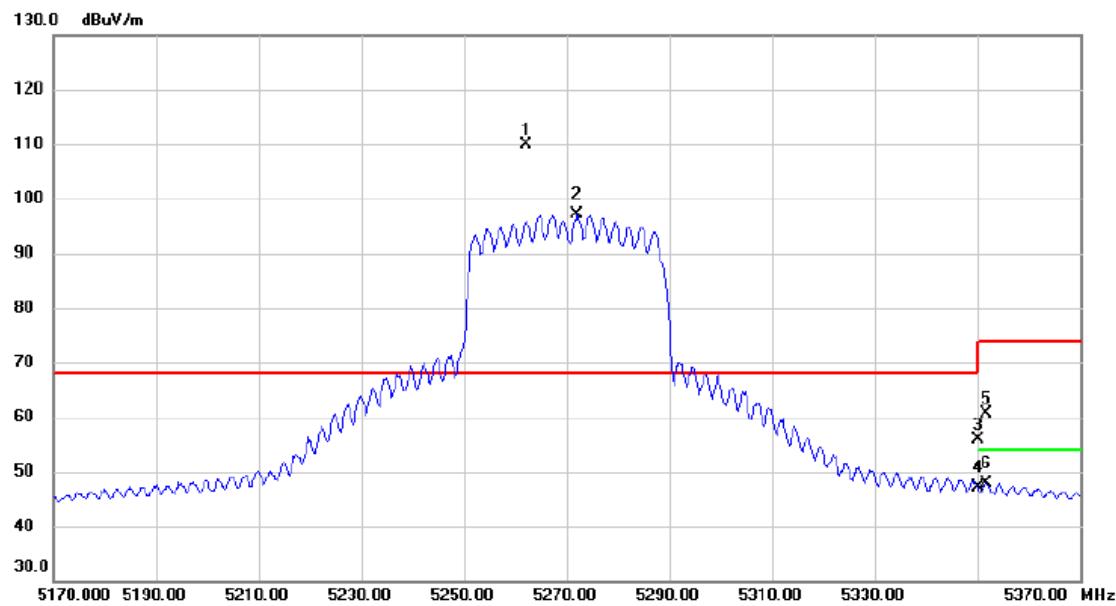


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	*	5266.700	97.69	13.69	111.38	68.20	43.18	peak No Limit
2	X	5272.000	85.36	13.69	99.05	68.20	30.85	AVG No Limit
3		5350.000	40.97	13.87	54.84	74.00	-19.16	peak
4		5350.000	35.16	13.87	49.03	54.00	-4.97	AVG
5		5352.000	45.28	13.87	59.15	74.00	-14.85	peak
6		5352.000	37.08	13.87	50.95	54.00	-3.05	AVG

**REMARKS:**

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

Test Mode	UNII-2A_TX AX(HE40) Mode 5270 MHz	Polarization	Horizontal
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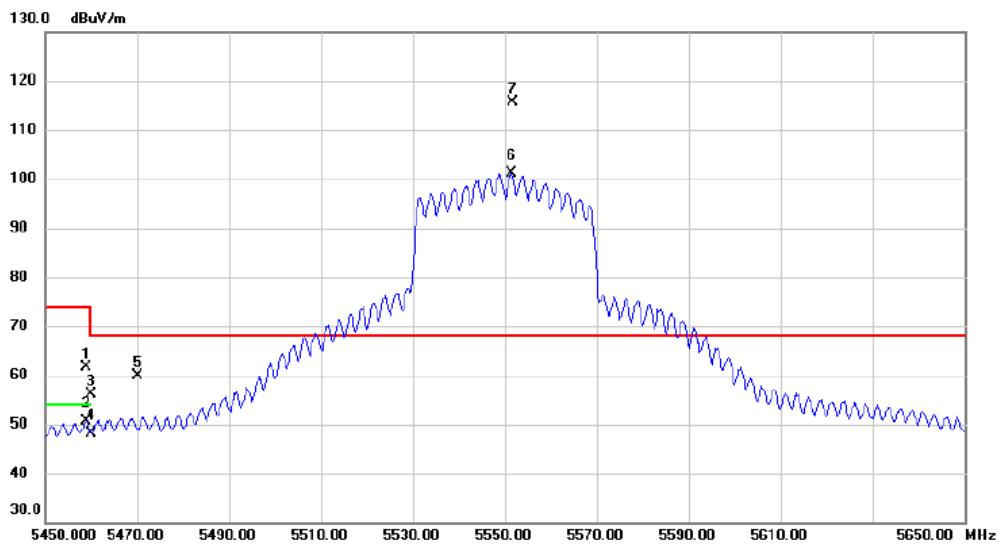


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
MHz									
1 *		5262.100	96.11	13.67	109.78	68.20	41.58	peak	No Limit
2 X		5272.000	83.37	13.69	97.06	68.20	28.86	AVG	No Limit
3		5350.000	42.11	13.87	55.98	74.00	-18.02	peak	
4		5350.000	33.25	13.87	47.12	54.00	-6.88	AVG	
5		5351.600	46.88	13.87	60.75	74.00	-13.25	peak	
6		5351.600	33.93	13.87	47.80	54.00	-6.20	AVG	

**REMARKS:**

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

Test Mode	UNII-2C_TX A Mode 5500 MHz	Polarization	Horizontal
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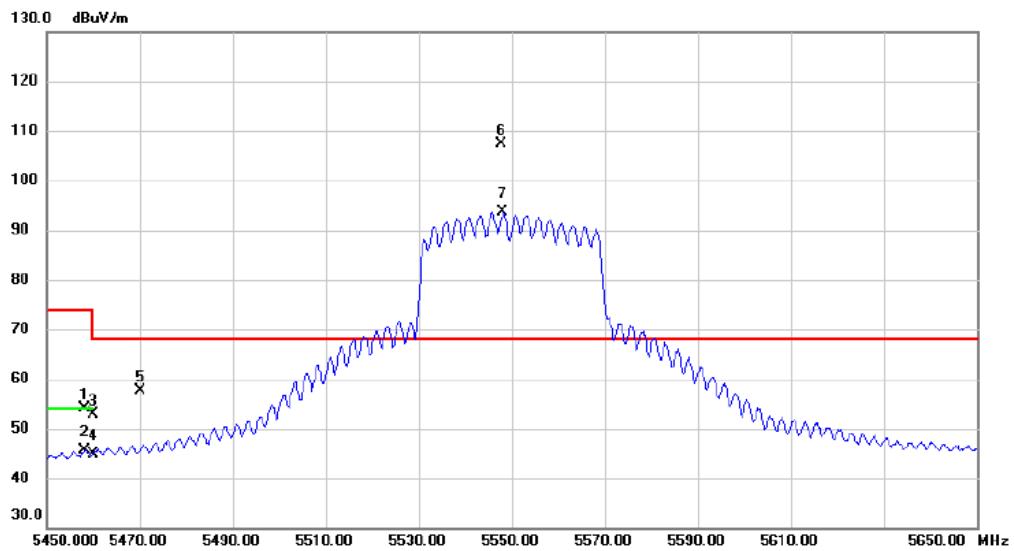


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		5458.900	47.44	14.11	61.55	74.00	-12.45	peak
2		5458.900	36.49	14.11	50.60	54.00	-3.40	AVG
3		5460.000	42.09	14.11	56.20	74.00	-17.80	peak
4		5460.000	34.14	14.11	48.25	54.00	-5.75	AVG
5		5470.000	45.82	14.13	59.95	68.20	-8.25	peak
6	X	5551.500	86.71	14.36	101.07	68.20	32.87	AVG No Limit
7	*	5551.600	101.22	14.36	115.58	68.20	47.38	peak No Limit

**REMARKS:**

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

Test Mode	UNII-2C_TX A Mode 5500 MHz	Polarization	Horizontal
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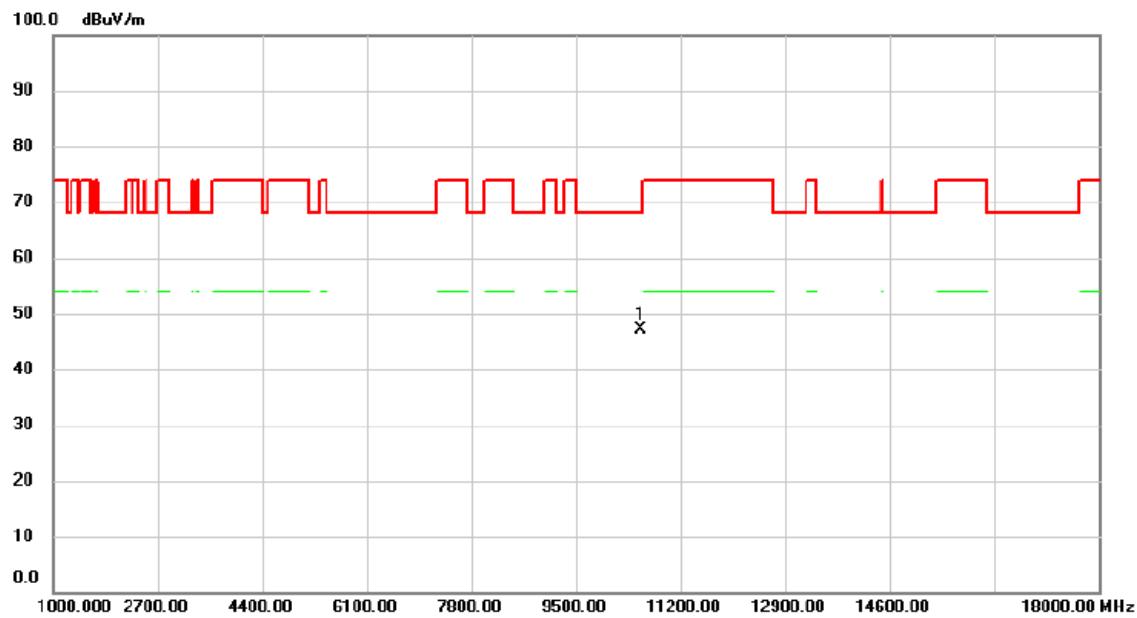


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5458.200	39.99	14.10	54.09	74.00	-19.91	peak	
2		5458.200	31.52	14.10	45.62	54.00	-8.38	AVG	
3		5460.000	38.76	14.11	52.87	74.00	-21.13	peak	
4		5460.000	30.70	14.11	44.81	54.00	-9.19	AVG	
5		5470.000	43.39	14.13	57.52	68.20	-10.68	peak	
6	*	5547.800	92.93	14.35	107.28	68.20	39.08	peak	No Limit
7	X	5548.100	79.20	14.35	93.55	68.20	25.35	AVG	No Limit

## REMARKS:

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

Test Mode	UNII-2A_TX AX(HE40) Mode 5270 MHz	Polarization	Vertical
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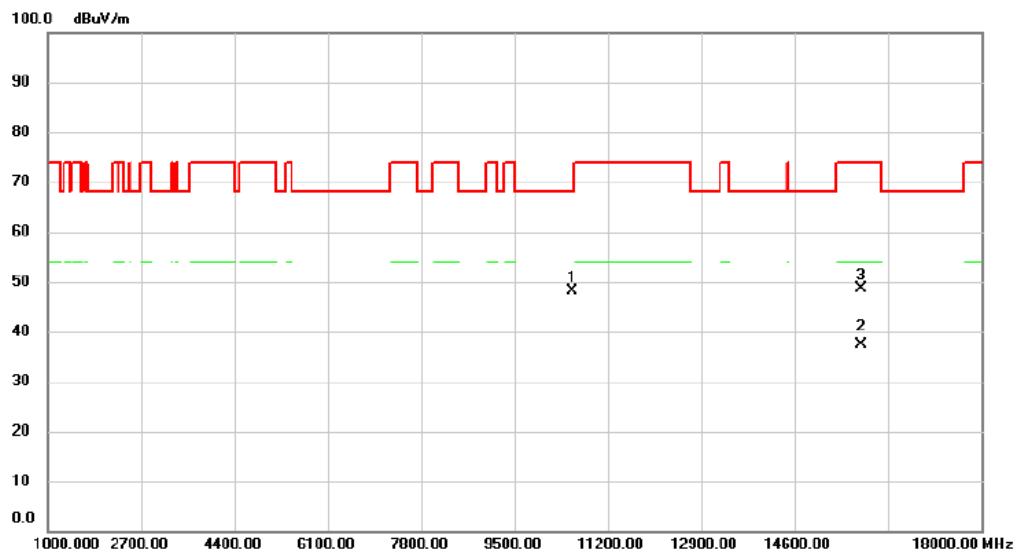


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	*	10545.900	37.84	9.20	47.04	68.20	-21.16	peak

**REMARKS:**

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

Test Mode	UNII-2A_TX AX(HE40) Mode 5270 MHz	Polarization	Horizontal
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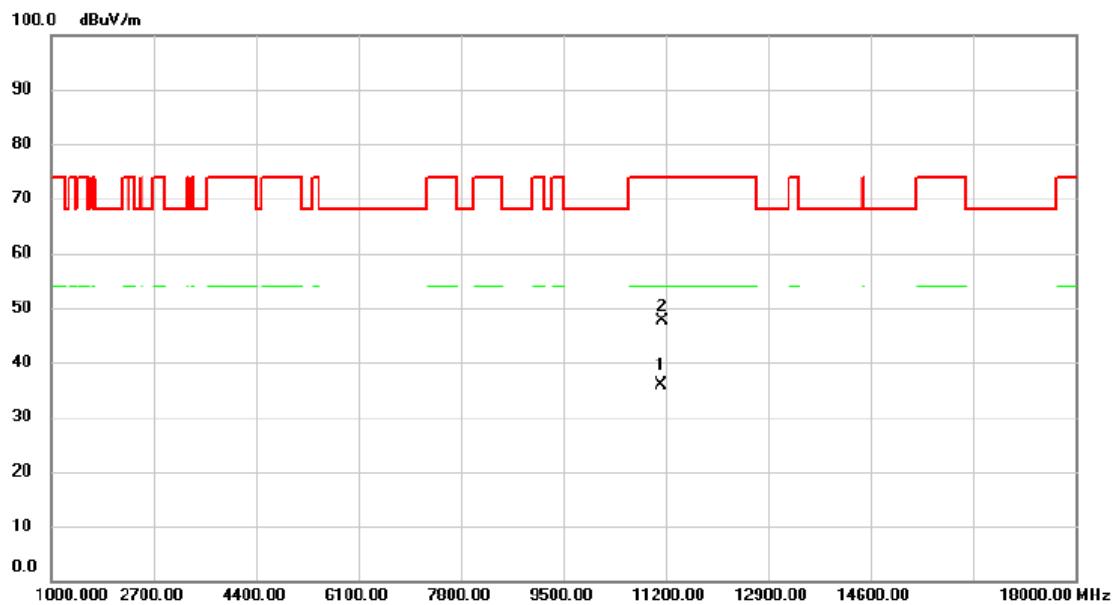


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10543.000	39.04	9.19	48.23	68.20	-19.97	peak	
2	*	15817.850	28.23	9.14	37.37	54.00	-16.63	AVG	
3		15819.300	39.40	9.14	48.54	74.00	-25.46	peak	

**REMARKS:**

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

Test Mode	UNII-2C_TX A Mode 5500 MHz	Polarization	Horizontal
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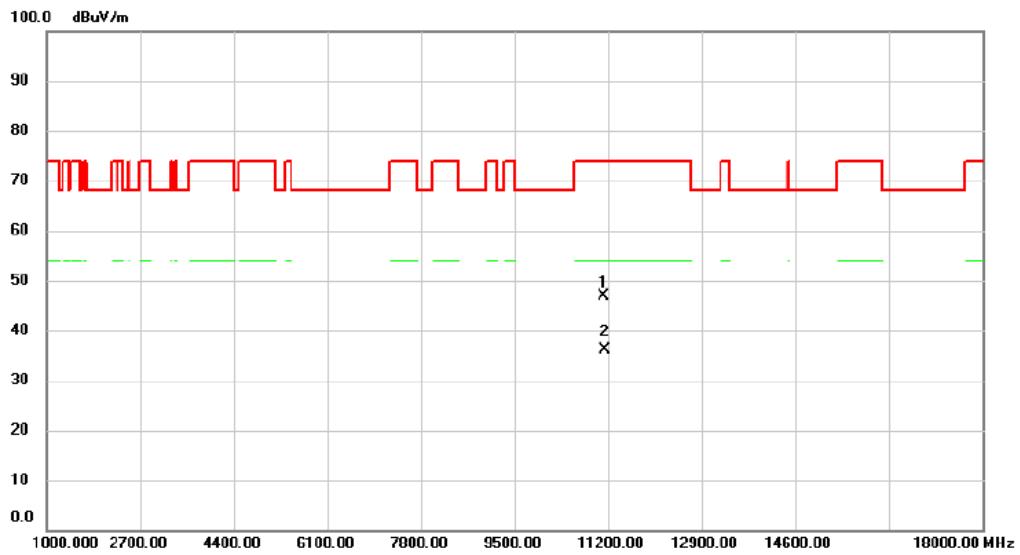


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	11131.500	26.72	9.26	35.98	54.00	-18.02	AVG	
2		11134.300	38.37	9.27	47.64	74.00	-26.36	peak	

**REMARKS:**

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

Test Mode	UNII-2C_TX A Mode 5500 MHz	Polarization	Horizontal
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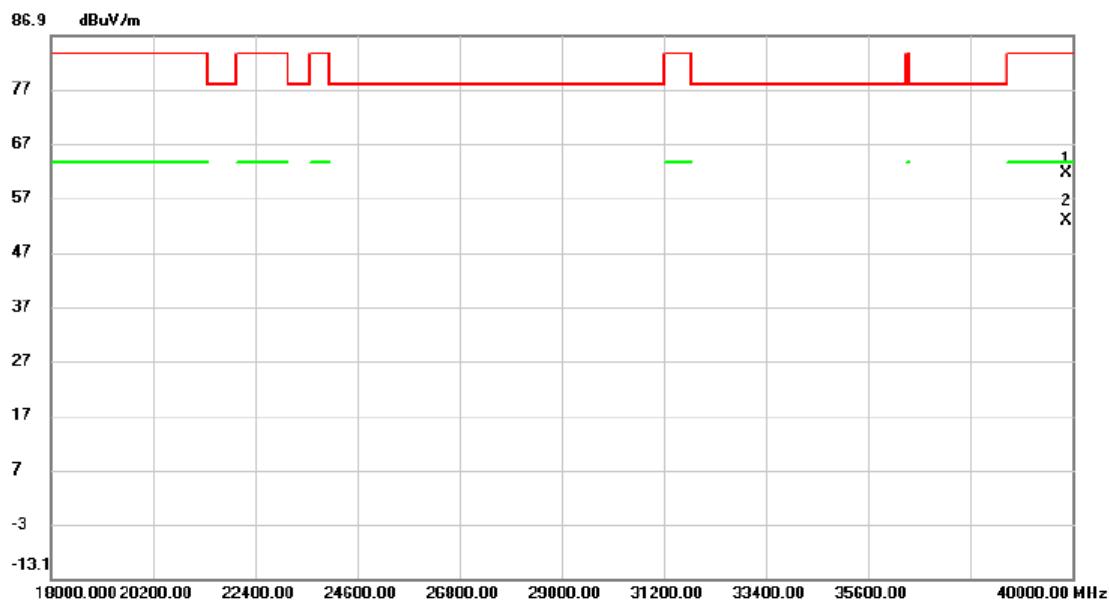


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11128.350	37.50	9.26	46.76	74.00	-27.24	peak	
2	*	11141.150	26.80	9.27	36.07	54.00	-17.93	AVG	

**REMARKS:**

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

Test Mode	UNII-2A_TX AX(HE40) Mode 5270 MHz	Polarization	Vertical
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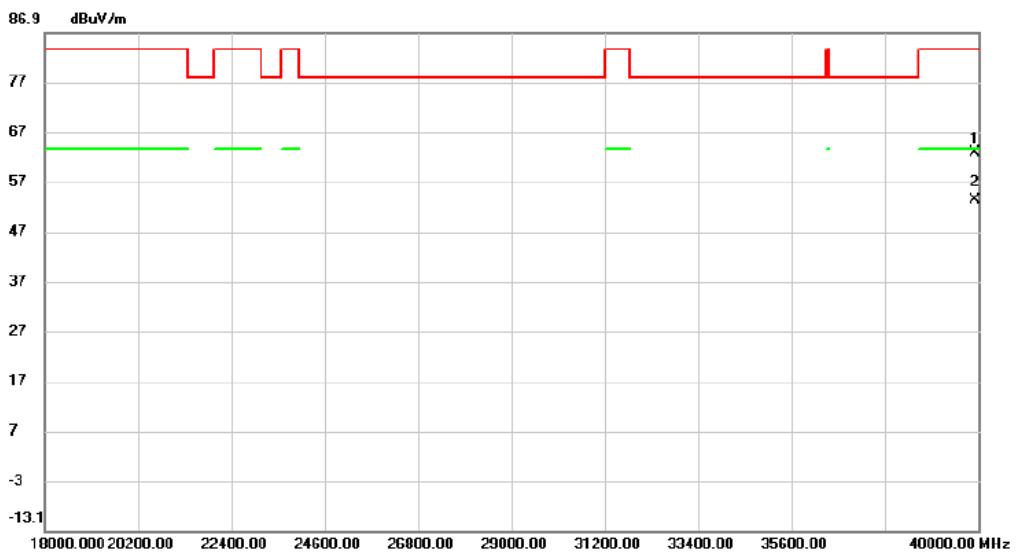


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		39879.000	50.64	10.89	61.53	83.50	-21.97	peak
2	*	39879.000	41.85	10.89	52.74	63.50	-10.76	AVG

**REMARKS:**

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

Test Mode	UNII-2A_TX AX(HE40) Mode 5270 MHz	Polarization	Horizontal
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		39934.000	51.81	10.89	62.70	83.50	-20.80	peak	
2	*	39934.000	42.49	10.89	53.38	63.50	-10.12	AVG	

**REMARKS:**

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