



FCC Radio Test Report

FCC ID: 2ABVH-AX211D2W

This report concerns: Class II Permissive Change

Project No. : 2505G007
Equipment : Intel WIFI 6E AX211
Brand Name : AAVA
Test Model : AX211D2W
Series Model : N/A
Applicant : Aava Mobile Oy
Address : Nahkatehtaankatu 2, FI-90130 Oulu, Finland
Manufacturer : Aava Mobile Oy
Address : Nahkatehtaankatu 2, FI-90130 Oulu, Finland
Factory : Ennoconn (Suzhou) Technology Co.,Ltd
Address : BUILDING 1, 299 NANSONG RD, YU SHAN TOWN
KUNSHAN 215300 JIANGSU CHINA
Date of Receipt : May 26, 2025
Date of Test : May 29, 2025 ~ Jun. 25, 2025
Issued Date : Jul. 15, 2025
Report Version : R00
Test Sample : Engineering Sample No.: DG2025052669
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. (Dongguan)

Prepared by

:

Evan Yang

Approved by

:

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

Declaration

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

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

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.

Table of Contents	Page
REVISION HISTORY	5
1 . APPLICABLE STANDARDS	6
2 . SUMMARY OF TEST RESULTS	6
2.1 TEST FACILITY	7
2.2 MEASUREMENT UNCERTAINTY	7
2.3 TEST ENVIRONMENT CONDITIONS	8
3 . GENERAL INFORMATION	9
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 TEST MODES	12
3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	13
3.4 SUPPORT UNITS	13
3.5 CUSTOMER INFORMATION DESCRIPTION	13
4 . AC POWER LINE CONDUCTED EMISSIONS	14
4.1 LIMIT	14
4.2 TEST PROCEDURE	14
4.3 DEVIATION FROM TEST STANDARD	14
4.4 TEST SETUP	15
4.5 EUT OPERATION CONDITIONS	15
4.6 TEST RESULTS	15
5 . RADIATED EMISSIONS	16
5.1 LIMIT	16
5.2 TEST PROCEDURE	17
5.3 DEVIATION FROM TEST STANDARD	18
5.4 TEST SETUP	18
5.5 EUT OPERATION CONDITIONS	20
5.6 TEST RESULTS - 9 KHZ TO 30 MHZ	20
5.7 TEST RESULTS - 30 MHZ TO 1000 MHZ	20
5.8 TEST RESULTS - ABOVE 1000 MHZ	20
6 . MEASUREMENT INSTRUMENTS LIST	21
7 . EUT TEST PHOTOS	23
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS	28
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ	31

Table of Contents	Page
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ	36
APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ	39

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-4-2505G007	R00	Original Report.	Jul. 15, 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) This is to request a Class II permissive change for FCC ID: 2ABVH-AX211D2W (This FCC ID is change ID based on Intel Mobile Communications, the original application information follow as model:

AX211D2W, FCC ID: PD9AX211D2, approved on 02/26/2021)

The major change filed under this application is:

Change #1: Implementation in new platform (Model number: INARI-D-8-WIG-1 Product name: Tablet)

Since the RF module has been certificated, after evaluation, above test items were criticized with original worst case and reconfirmed in this report.

2.1 TEST FACILITY

For Radiated Emissions 1-18GHz Item: Room 102 & 702, Building A3, No.9, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

For Other Items: No.3, Jinshagang 1st Road, Dalang, Dongguan, 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,(dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.88

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.40
		30MHz ~ 200MHz	H	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	H	3.98

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)
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	23°C	53%	AC 120V/60Hz	Hayden Chen	Jun. 25, 2025
Radiated Emissions -9 kHz to 30 MHz	22°C	48%	AC 120V/60Hz	Hayden Chen	Jun. 09, 2025
Radiated Emissions -30 MHz to 1000 MHz	23°C	42%	AC 120V/60Hz	Calvin Wen	Jun. 09, 2025
Radiated Emissions -Above 1000 MHz	22°C	47%	AC 120V/60Hz	Jensen Zhou	Jun. 14, 2025
	25°C	56%	AC 120V/60Hz	Calvin Wen	Jun. 25, 2025

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Intel WIFI 6E AX211
Brand Name	AAVA
Test Model	AX211D2W
Series Model	N/A
Model Difference(s)	N/A
Power Supply Rating	DC 3.3V from host equipment
Platform information	
Equipment	Tablet
Brand Name	AAVA
Test Model	INARI-D-8-WIG-1
Series Model	N/A
Model Difference(s)	N/A
Hardware Version	EV
Software Version	Windows
Power Source	1# DC voltage supplied from AC adapter. Brand / Model: PHIHONG / AQ27A-59CFA 2# Battery supplied. Model: AMME5350 3# Supplied from USB-C port.
Power Rating	1# I/P: 100-240V~ 50-60Hz 0.8A O/P: 5V $\equiv$ 3A, 9V $\equiv$ 3A, 12V $\equiv$ 2.25A, 15V $\equiv$ 1.8A 27W 2# 7.74Vdc, 3500 mAh 3# 9V 3A
WIFI+BT Module	Intel WIFI 6E AX211 / AX211D2W
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: 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

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 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)	
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 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)	
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 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)	
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 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)	
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		INARI-D-8-WIG-1	Chip	N/A	3
2		INARI-D-8-WIG-1	Chip	N/A	2.9

Note:

- 1) This EUT supports CDD, and all antenna gains are not equal, Directional gain = $G_{ANT} + \text{Array Gain}$. For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the Directional gain=3.

4. Table for Antenna Configuration:

Operating Mode	TX Mode	2TX
IEEE 802.11a		V (Ant. 1+Ant. 2)
IEEE 802.11n(HT20)		V (Ant. 1+Ant. 2)
IEEE 802.11n(HT40)		V (Ant. 1+Ant. 2)
IEEE 802.11ac(VHT20)		V (Ant. 1+Ant. 2)
IEEE 802.11ac(VHT40)		V (Ant. 1+Ant. 2)
IEEE 802.11ac(VHT80)		V (Ant. 1+Ant. 2)
IEEE 802.11ac(VHT160)		V (Ant. 1+Ant. 2)
IEEE 802.11ax(HE20)		V (Ant. 1+Ant. 2)
IEEE 802.11ax(HE40)		V (Ant. 1+Ant. 2)
IEEE 802.11ax(HE80)		V (Ant. 1+Ant. 2)
IEEE 802.11ax(HE160)		V (Ant. 1+Ant. 2)

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 151
Mode 2	TX AX(HE40) Mode Channel 46/54/118/151

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 151

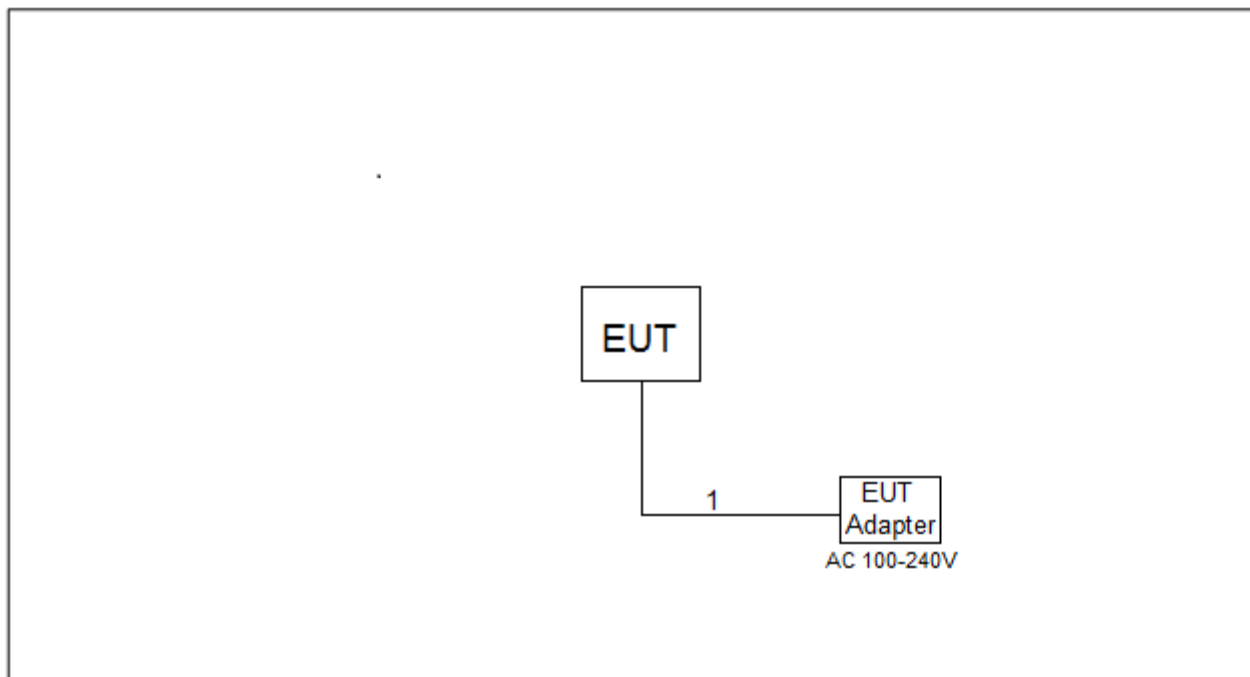
Radiated Emissions Test - Below 1GHz & Above 18 GHz	
Final Test Mode	Description
Mode 1	TX AX(HE40) Mode Channel 151

Radiated Emissions Test - 1 GHz - 18 GHz	
Final Test Mode	Description
Mode 2	TX AX(HE40) Mode Channel 46/54/118/151

Note:

For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical and recorded.

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	1.2m

3.5 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain is provided by the manufacturer.

4. AC POWER LINE CONDUCTED EMISSIONS

4.1 LIMIT

Frequency (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.

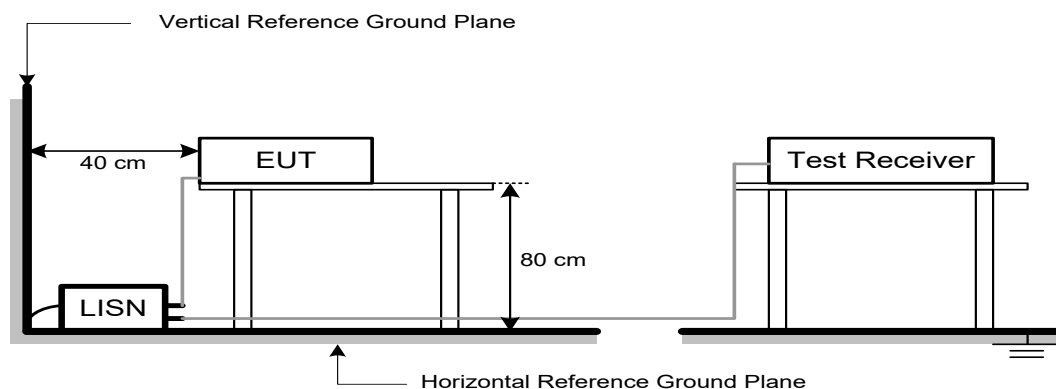
The following table is the setting of the receiver:

Receiver 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 (dBμV/m)	Harmonic at 1m (dBμV/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)
5725-5850 NOTE (2)	-27	68.2	77.7 (Note 3)
	10	105.2	114.7 (Note 3)
	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:

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

- (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_{limit} : Harmonic at 3m Peak and Average limit.

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

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

d_{measure} : Harmonic Actual test distance.

- (4) 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

5.2 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

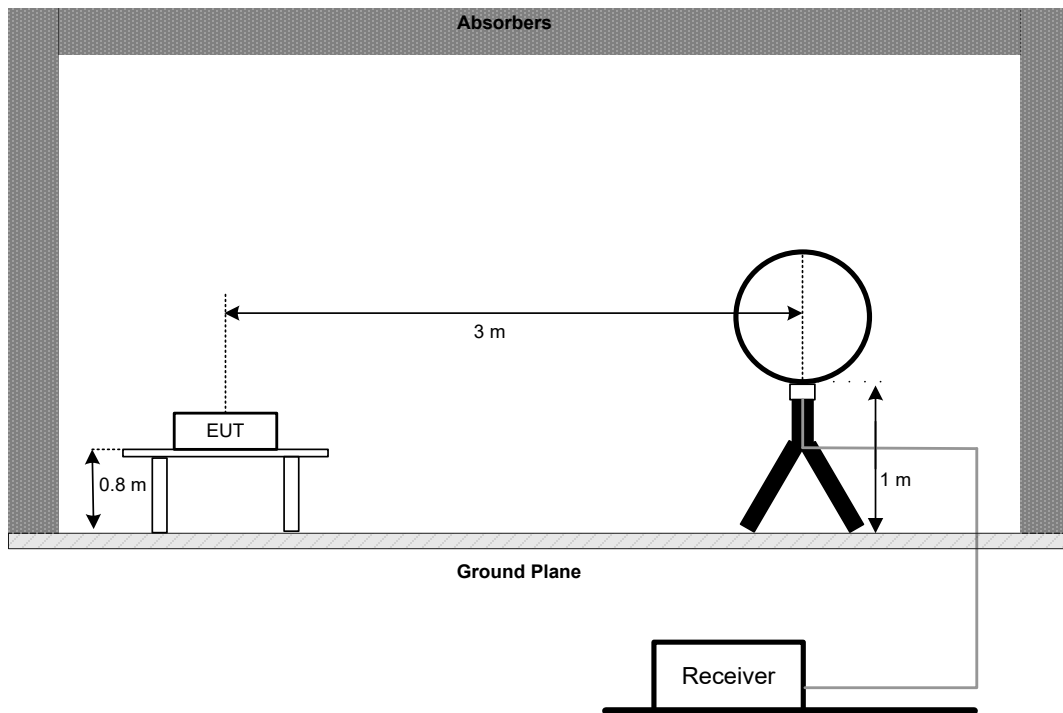
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

5.3 DEVIATION FROM TEST STANDARD

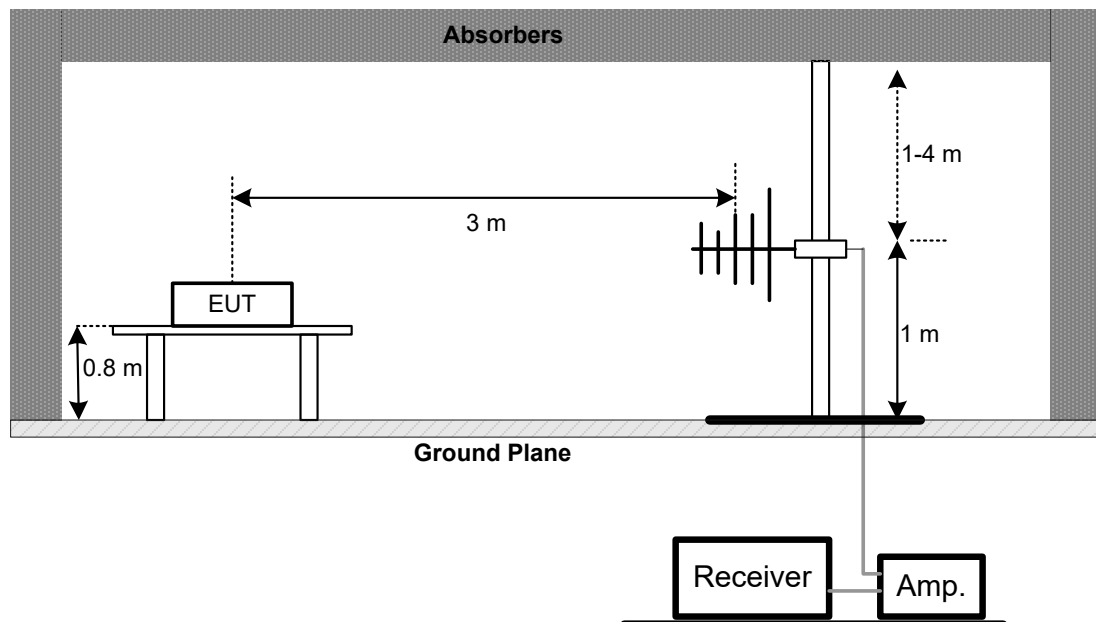
No deviation.

5.4 TEST SETUP

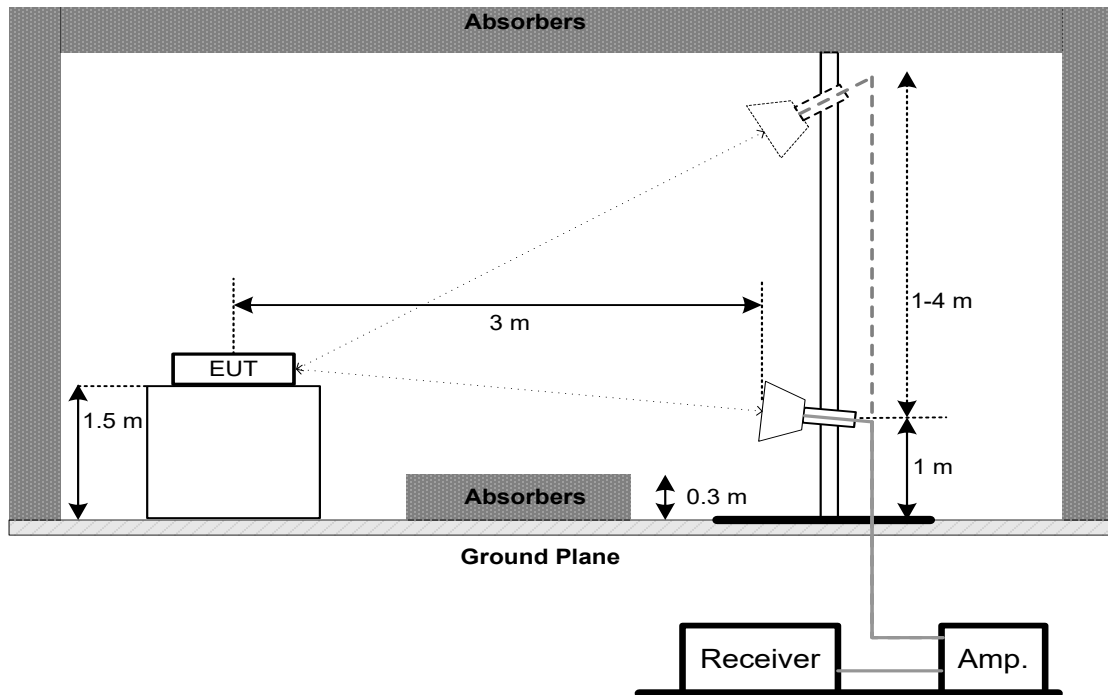
9 kHz to 30 MHz



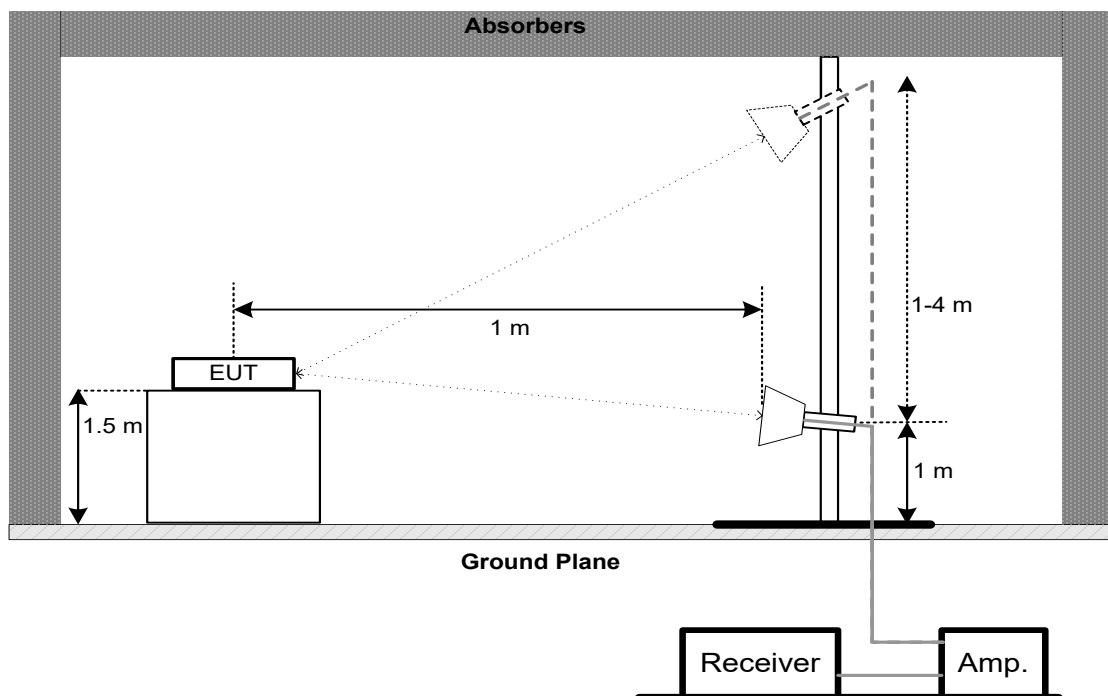
30 MHz to 1 GHz



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 1513-60	00025	Mar. 01, 2026
2	Receiver	Agilent	N9038A	MY52130039	Jan.10, 2026
3	Cable	RegalWay	LMR400-NMNM-6m	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	01462	Dec. 14, 2025
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 14, 2025
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	May 17, 2026
4	Cable	RegalWay	LMR400-NMNM-12.5m	N/A	Jun. 04, 2026
5	Cable	RegalWay	LMR400-NMNM-3m	N/A	Jun. 04, 2026
6	Cable	RegalWay	LMR400-NMNM-0.5m	N/A	Jun. 04, 2026
7	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
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	966 Chamber room	CM	9*6*6	N/A	May 09, 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-10000	N/A	Jun. 12, 2026
5	Cable	EMC INSTRUMENT	EMC104-SM-SM-3000	N/A	Jun. 12, 2026
6	Cable	EMC INSTRUMENT	EMC104-SM-SM-1000	N/A	Jun. 12, 2026
7	966 Chamber room	Tai He	9*6*6 (NSA&VSWR)	N/A	May 18, 2026
8	Double Ridged Horn Antenna	EMC INSTRUMENT	DRH18-E	210509A18ES	Aug. 28, 2025
9	Preamplifier	EMC INSTRUMENT	EMC118A45SE	981001	May 28, 2026
10	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
11	Filter	COM-MW	ZHPE6-M6500-18000-547	N/A	Oct. 29, 2025

Radiated Emissions - Above 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	Aug. 20, 2025
2	Preamplifier	EMC INSTRUMENT	EMC184045SE	980905	Oct. 29, 2025
3	Cable	RegalWay	RWLP50-2.6A-2.92M2.92M-1.1M	N/A	Jul. 25, 2025
4	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025
5	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	1227	Oct. 20, 2025
6	966 Chamber room	CM	9*6*6	N/A	May 09, 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

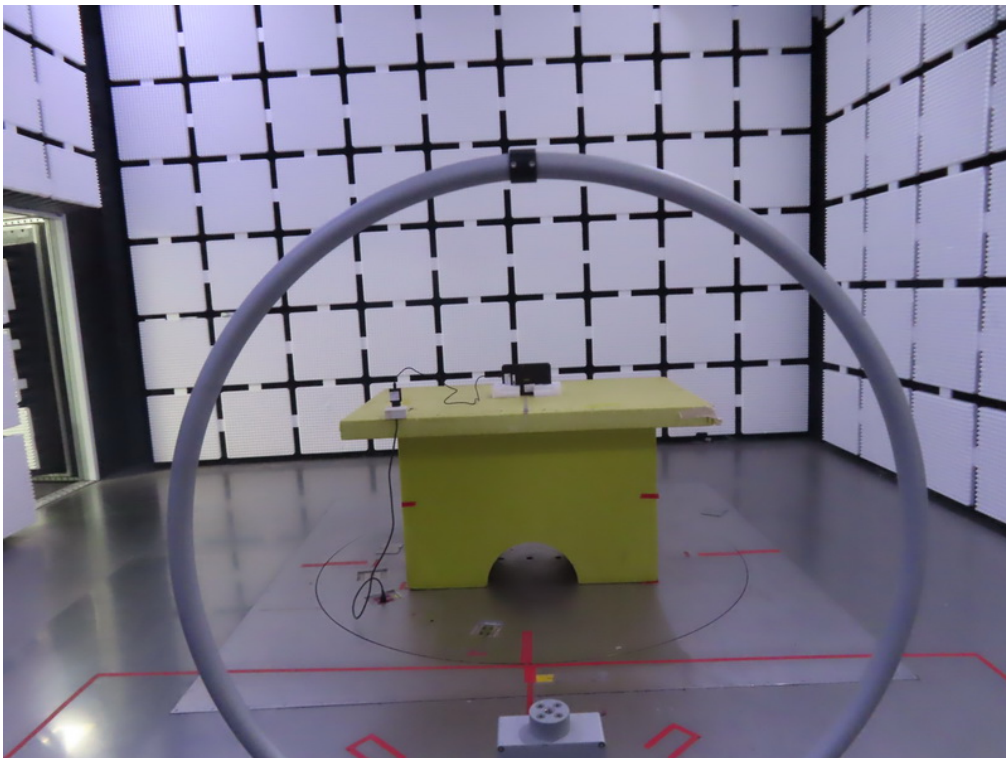
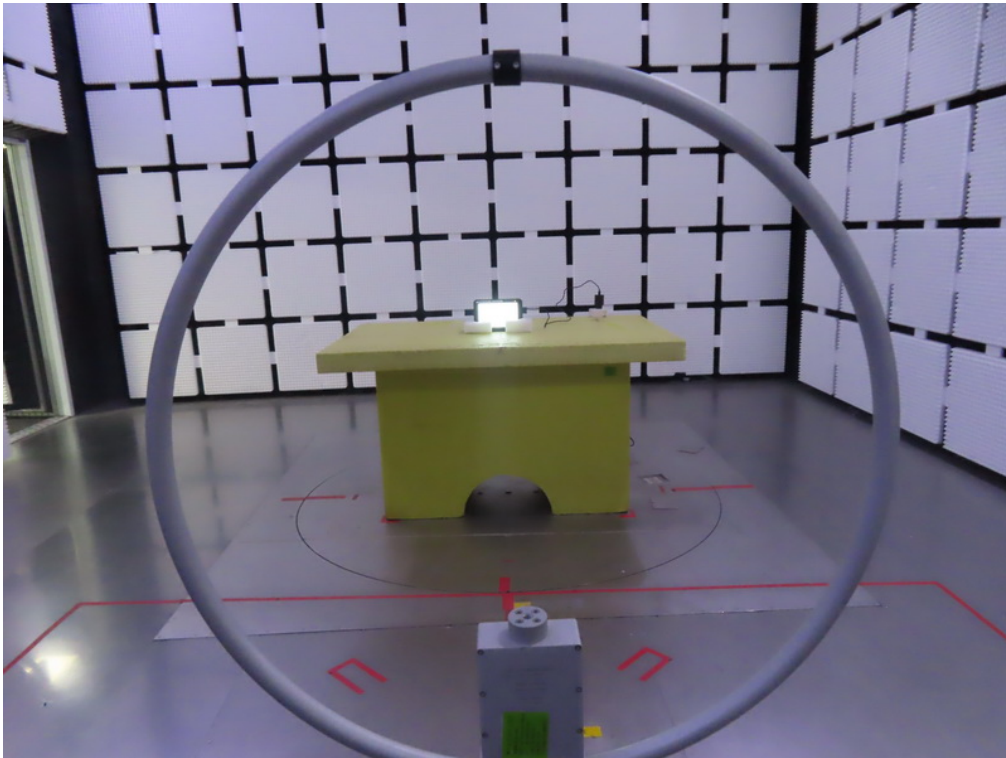
Remark: "N/A" denotes no model name, serial no. or calibration specified.

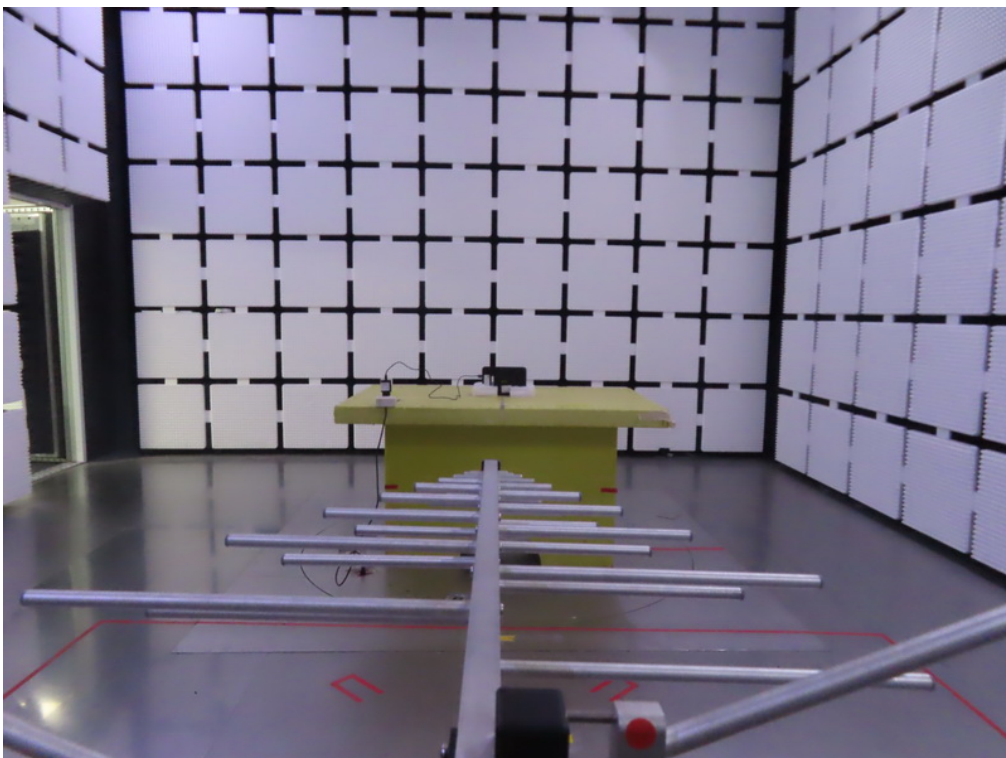
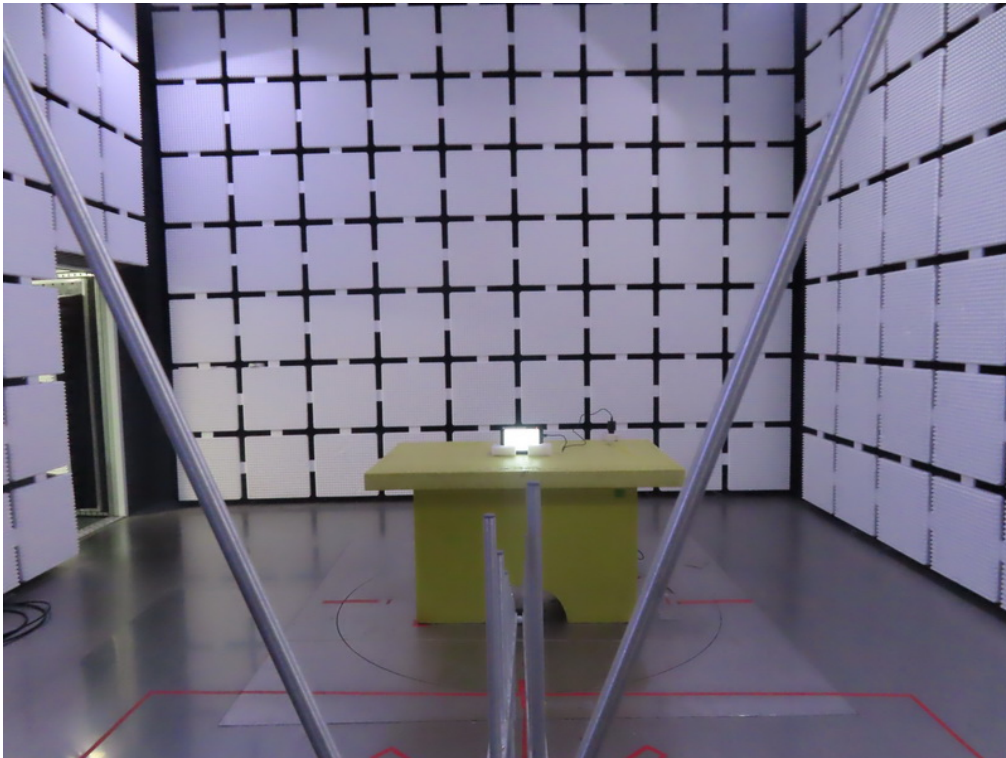
All calibration period of equipment list is one year.

7. EUT TEST PHOTOS

AC Power Line Conducted Emissions Test Photos

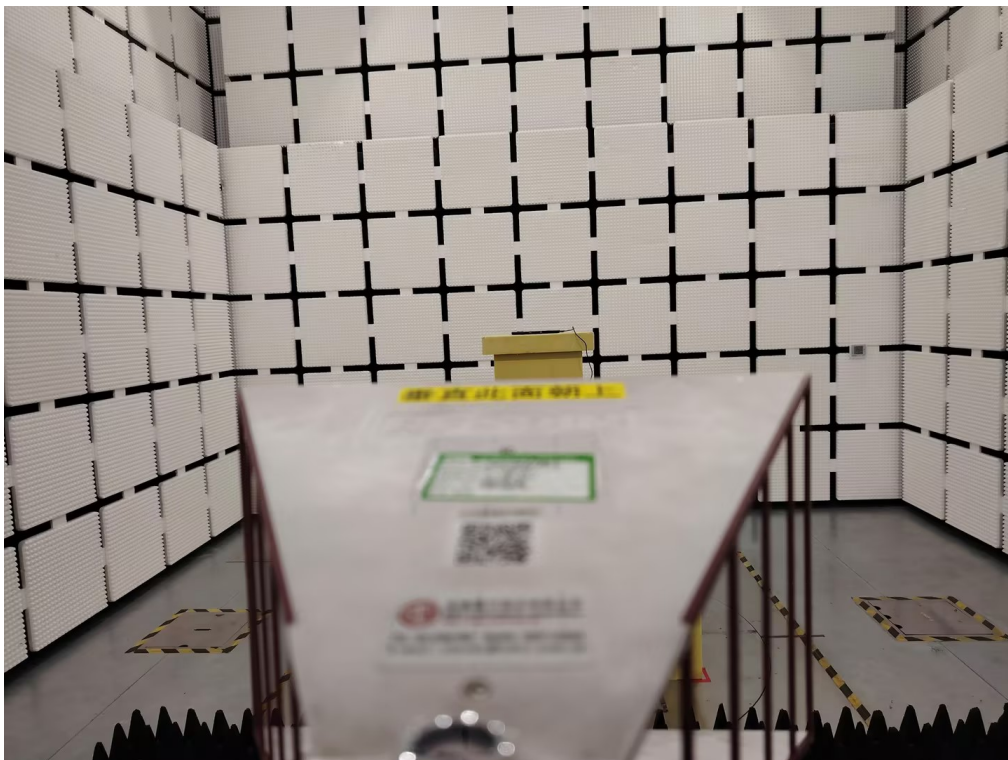
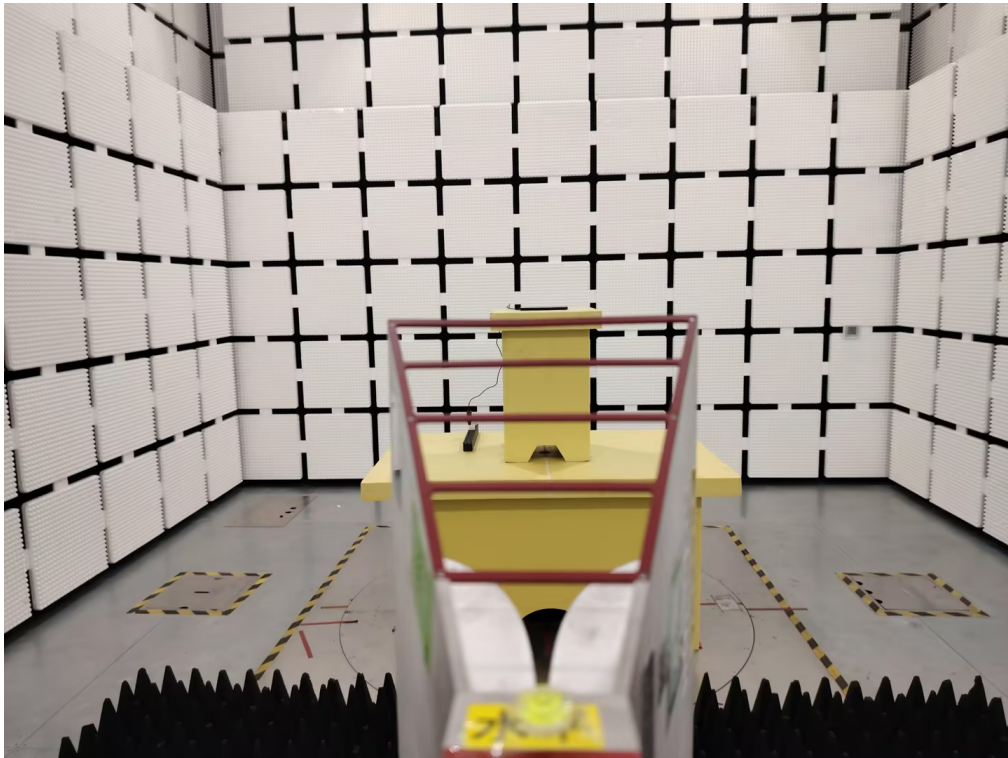


Radiated Emissions Test Photos**9 kHz to 30 MHz**

Radiated Emissions Test Photos**30 MHz to 1000 MHz**

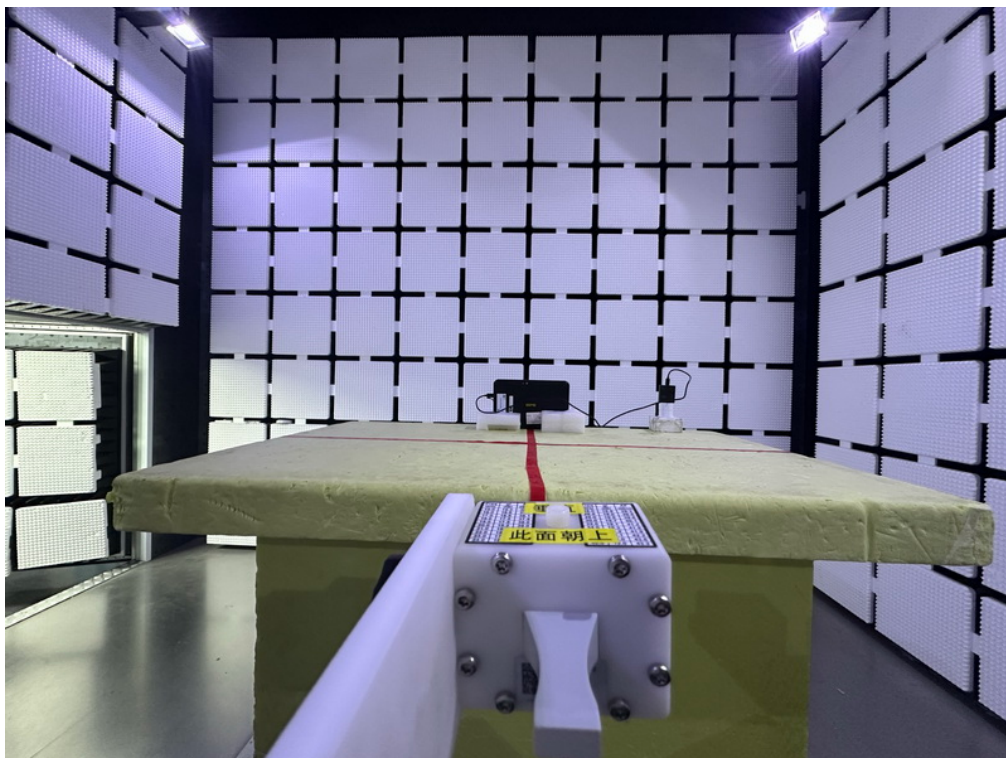
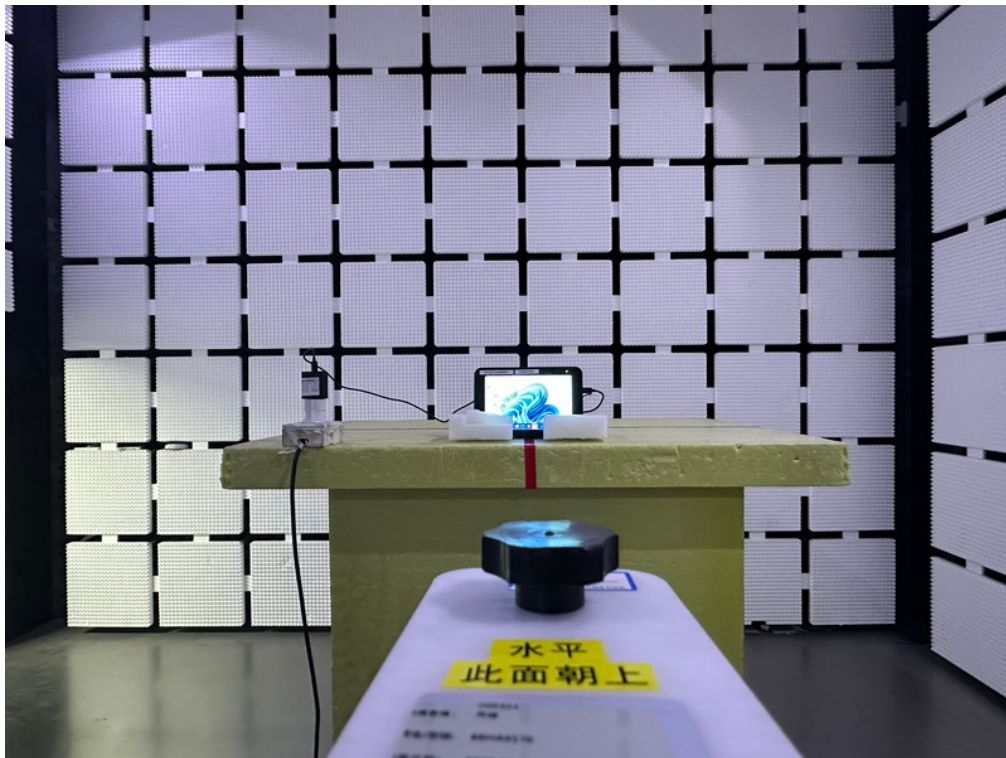
Radiated Emissions Test Photos

Band edge & Harmonic(1 GHz to 18 GHz)



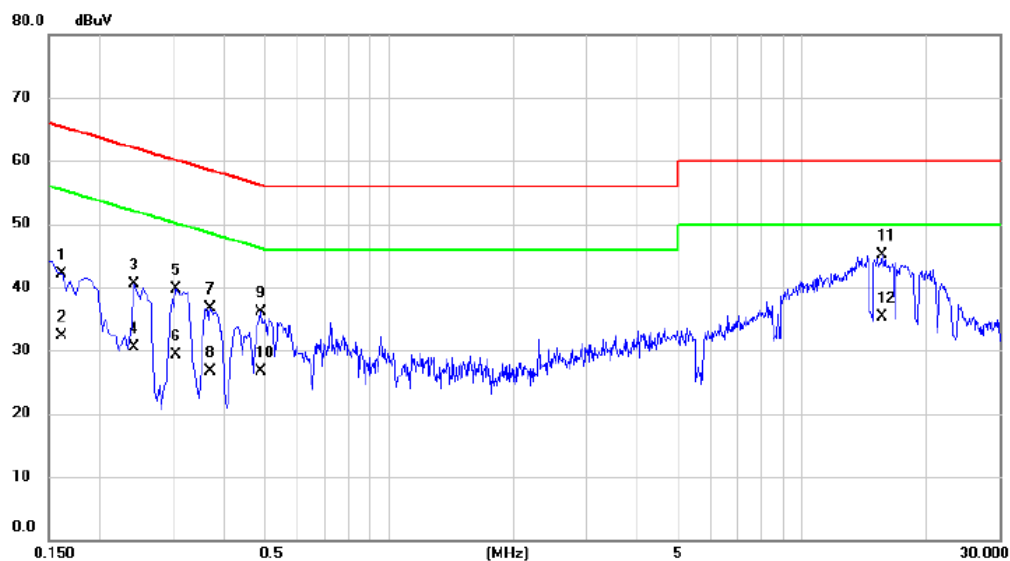
Radiated Emissions Test Photos

Harmonic(18 GHz to 26.5 GHz)



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX AX(HE40) Mode Channel 151	Phase	Line
-----------	------------------------------	-------	------

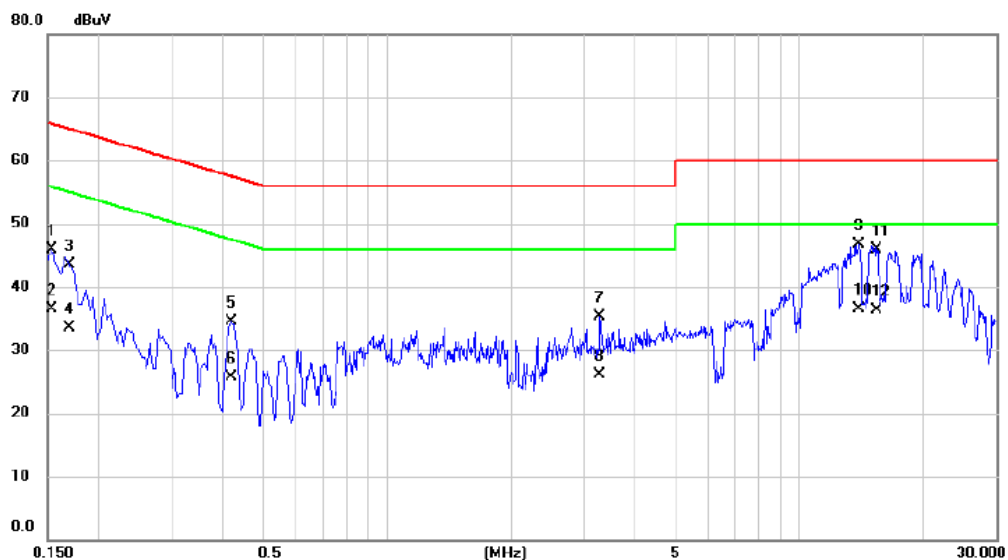


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1620	32.28	9.79	42.07	65.36	-23.29	QP	
2		0.1620	22.60	9.79	32.39	55.36	-22.97	AVG	
3		0.2420	30.73	9.80	40.53	62.03	-21.50	QP	
4		0.2420	20.80	9.80	30.60	52.03	-21.43	AVG	
5		0.3060	29.87	9.79	39.66	60.08	-20.42	QP	
6		0.3060	19.60	9.79	29.39	50.08	-20.69	AVG	
7		0.3700	26.81	9.81	36.62	58.50	-21.88	QP	
8		0.3700	16.90	9.81	26.71	48.50	-21.79	AVG	
9		0.4900	26.24	9.83	36.07	56.17	-20.10	QP	
10		0.4900	16.80	9.83	26.63	46.17	-19.54	AVG	
11		15.6340	31.67	13.43	45.10	60.00	-14.90	QP	
12	*	15.6340	21.80	13.43	35.23	50.00	-14.77	AVG	

REMARKS:

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

Test Mode	TX AX(HE40) Mode Channel 151	Phase	Neutral
-----------	------------------------------	-------	---------



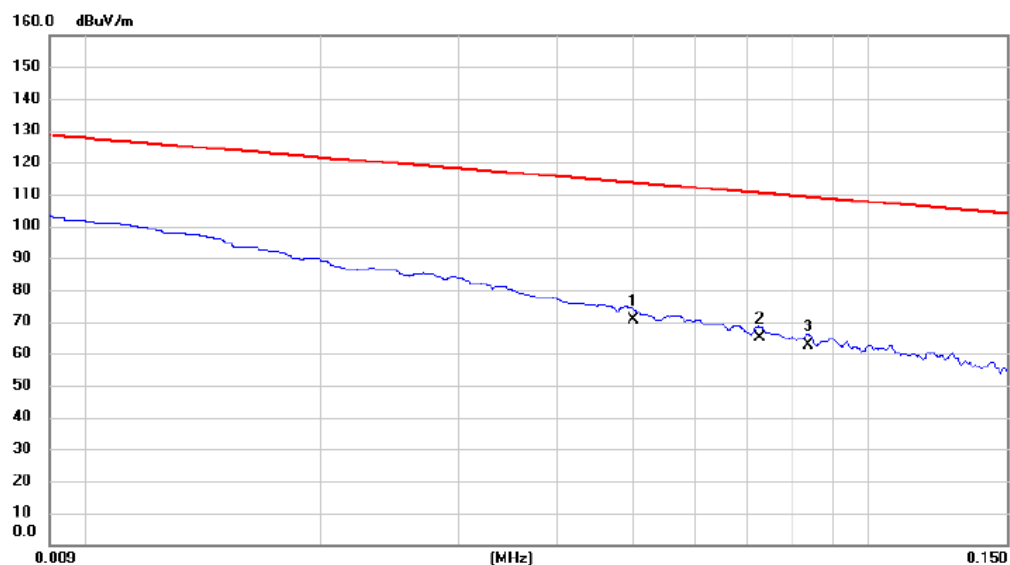
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1540	36.23	9.76	45.99	65.78	-19.79	QP	
2		0.1540	26.80	9.76	36.56	55.78	-19.22	AVG	
3		0.1703	33.78	9.76	43.54	64.95	-21.41	QP	
4		0.1703	23.80	9.76	33.56	54.95	-21.39	AVG	
5		0.4180	24.65	9.79	34.44	57.49	-23.05	QP	
6		0.4180	15.90	9.79	25.69	47.49	-21.80	AVG	
7		3.2820	25.09	10.25	35.34	56.00	-20.66	QP	
8		3.2820	15.90	10.25	26.15	46.00	-19.85	AVG	
9	*	13.9180	33.78	12.93	46.71	60.00	-13.29	QP	
10		13.9180	23.60	12.93	36.53	50.00	-13.47	AVG	
11		15.4220	32.53	13.36	45.89	60.00	-14.11	QP	
12		15.4220	22.90	13.36	36.26	50.00	-13.74	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 151	Polarization	Ant 0°
-----------	------------------------------	--------------	--------

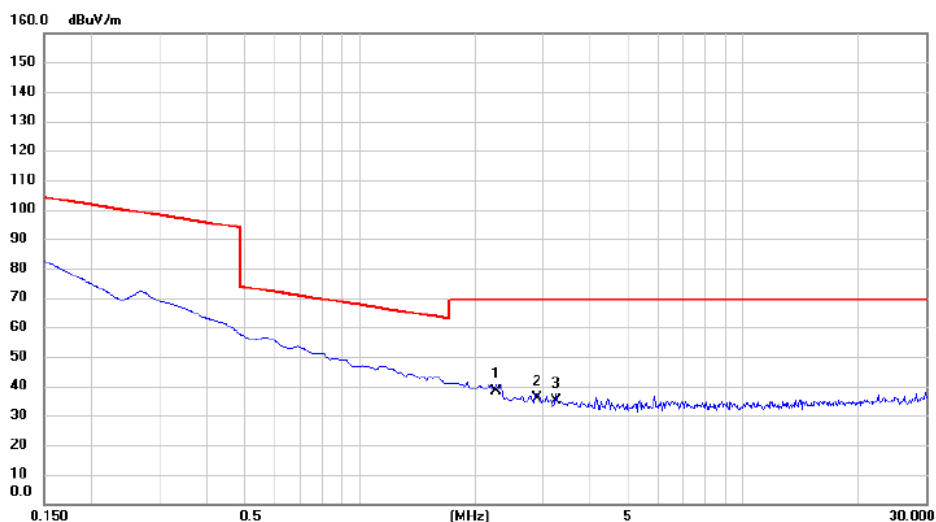


No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.050	50.31	20.14	70.45	113.63	-43.18	AVG	
2	0.072	44.85	20.14	64.99	110.40	-45.41	AVG	
3	0.084	42.31	20.14	62.45	109.16	-46.71	AVG	

REMARKS:

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

Test Mode	TX AX(HE40) Mode Channel 151	Polarization	Ant 0°
-----------	------------------------------	--------------	--------



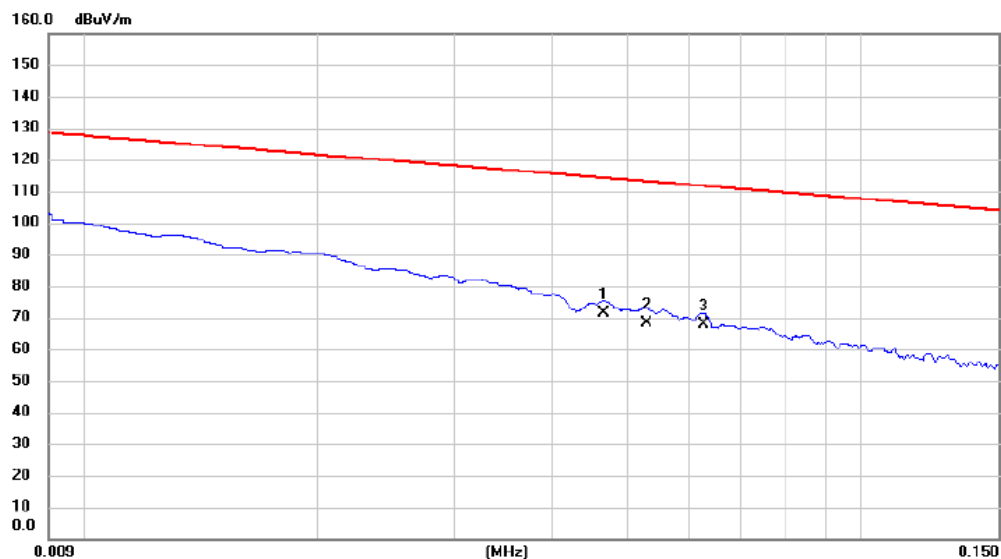
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2.269	18.20	20.02	38.22	69.54	-31.32	QP	
2	2.896	15.62	20.06	35.68	69.54	-33.86	QP	
3	3.254	15.10	20.08	35.18	69.54	-34.36	QP	

REMARKS:

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

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

Test Mode	TX AX(HE40) Mode Channel 151	Polarization	Ant 90°
-----------	------------------------------	--------------	---------

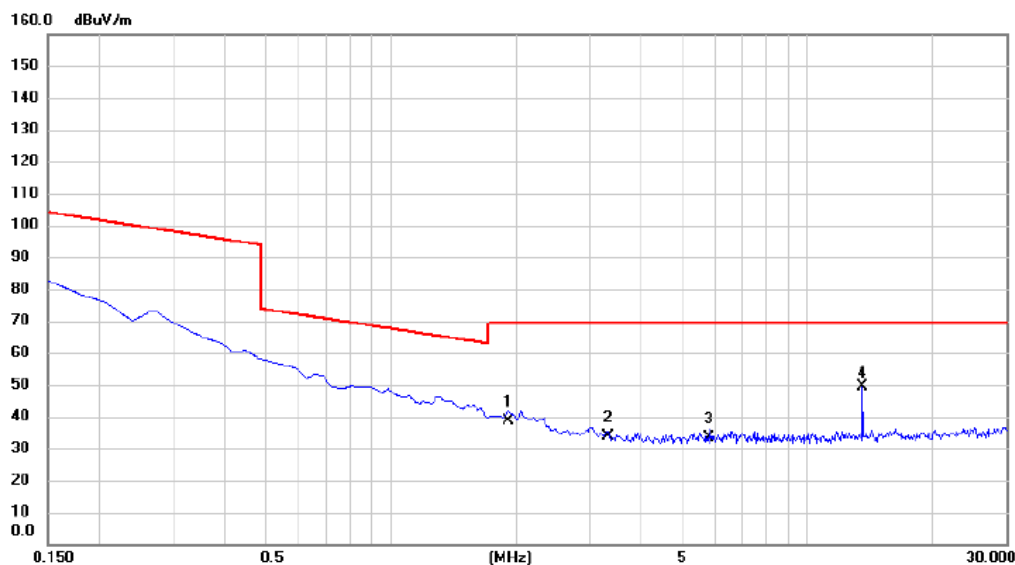


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.047	51.32	20.14	71.46	114.24	-42.78	AVG	
2	0.053	48.21	20.14	68.35	113.12	-44.77	AVG	
3	0.063	47.62	20.14	67.76	111.67	-43.91	AVG	

REMARKS:

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

Test Mode	TX AX(HE40) Mode Channel 151	Polarization	Ant 90°
-----------	------------------------------	--------------	---------



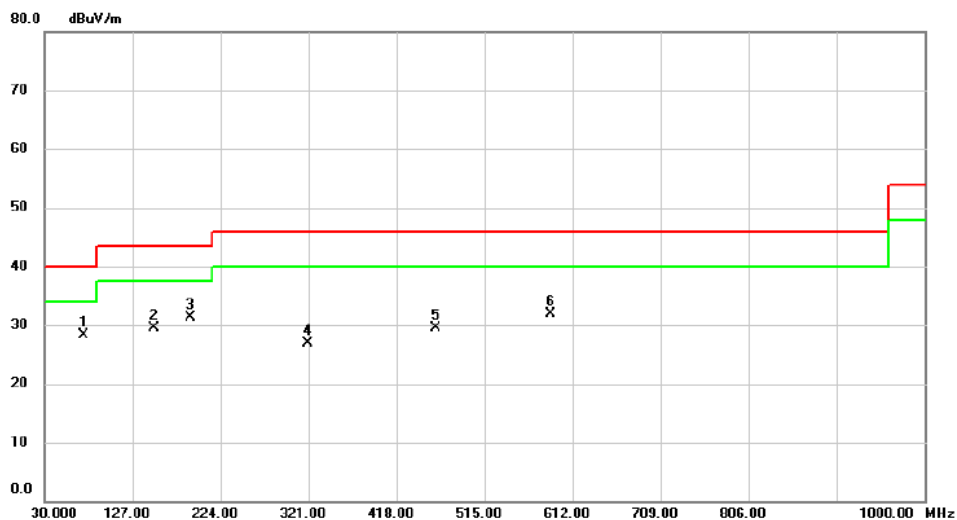
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1.911	18.66	20.01	38.67	69.54	-30.87	QP	
2		3.314	13.62	20.09	33.71	69.54	-35.83	QP	
3		5.822	13.20	20.26	33.46	69.54	-36.08	QP	
4	*	13.553	28.76	20.57	49.33	69.54	-20.21	peak	

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 151	Polarization	Vertical
-----------	------------------------------	--------------	----------

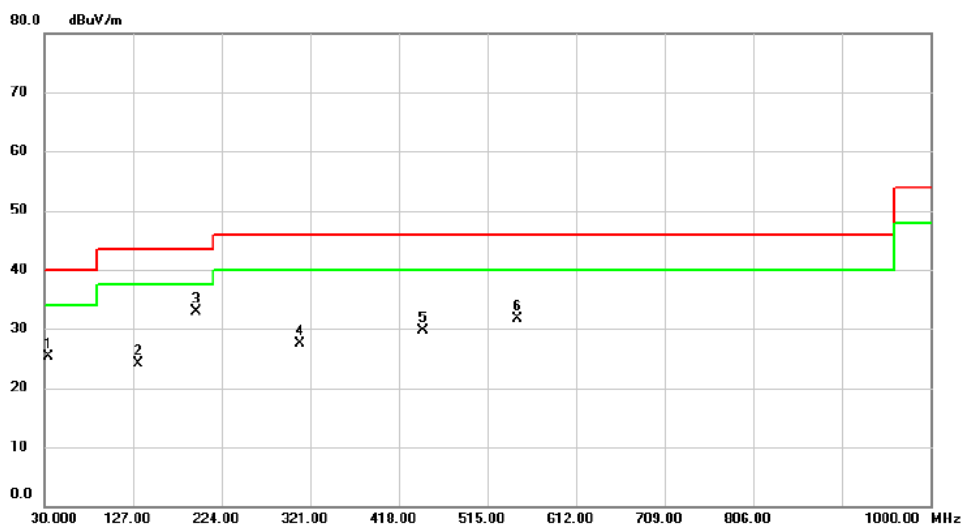


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	73.650	41.92	-13.67	28.25	40.00	-11.75	peak	
2	150.280	40.06	-10.63	29.43	43.50	-14.07	peak	
3	191.020	44.12	-12.78	31.34	43.50	-12.16	peak	
4	320.030	36.03	-9.10	26.93	46.00	-19.07	peak	
5	460.680	35.43	-5.83	29.60	46.00	-16.40	peak	
6	587.750	35.43	-3.52	31.91	46.00	-14.09	peak	

REMARKS:

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

Test Mode	TX AX(HE40) Mode Channel 151	Polarization	Horizontal
-----------	------------------------------	--------------	------------



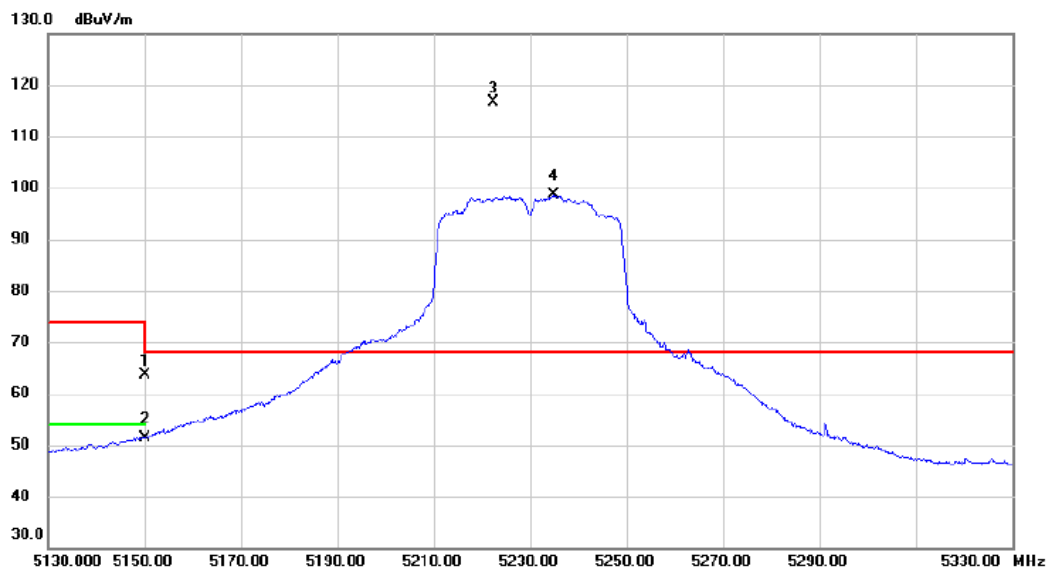
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	33.880	37.53	-12.29	25.24	40.00	-14.76	peak	
2	132.820	35.97	-11.86	24.11	43.50	-19.39	peak	
3 *	195.870	46.00	-13.15	32.85	43.50	-10.65	peak	
4	310.330	36.91	-9.41	27.50	46.00	-18.50	peak	
5	444.190	35.89	-6.15	29.74	46.00	-16.26	peak	
6	547.980	36.07	-4.42	31.65	46.00	-14.35	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 AX(HE40) Mode 5230 MHz	Polarization	Vertical
-----------	---------------------------	--------------	----------

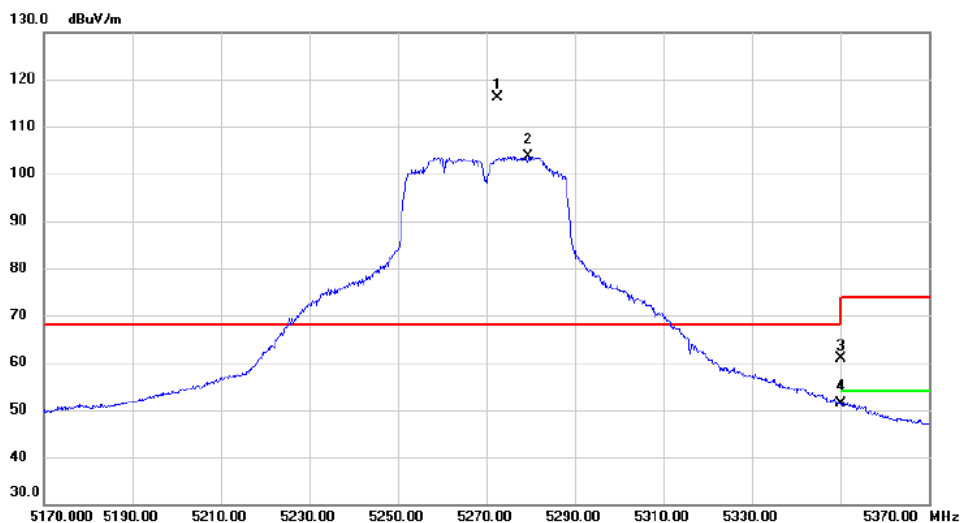


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5150.000	48.19	15.50	63.69	74.00	-10.31	peak	
2		5150.000	35.77	15.50	51.27	54.00	-2.73	AVG	
3	*	5222.400	101.06	15.48	116.54	68.20	48.34	peak	No Limit
4	X	5234.800	83.05	15.47	98.52	68.20	30.32	AVG	No Limit

REMARKS:

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

Test Mode	TX AX(HE40) Mode 5270 MHz	Polarization	Vertical
-----------	---------------------------	--------------	----------



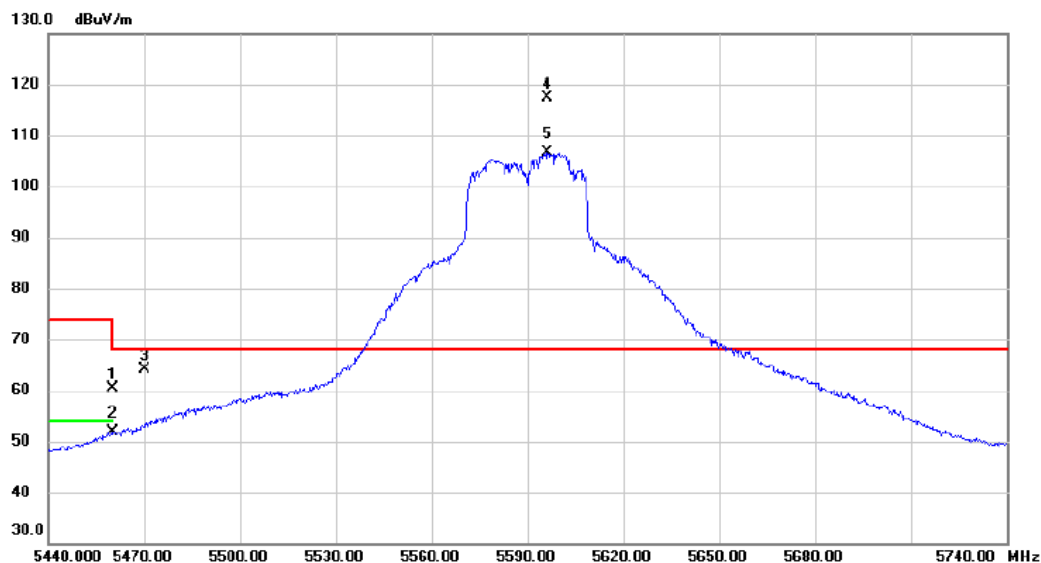
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5272.600	100.74	15.47	116.21	68.20	48.01	peak	No Limit
2	X	5279.400	88.27	15.46	103.73	68.20	35.53	AVG	No Limit
3		5350.000	45.51	15.44	60.95	74.00	-13.05	peak	
4		5350.000	35.86	15.44	51.30	54.00	-2.70	AVG	

REMARKS:

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

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

Test Mode	TX AX(HE40) Mode 5590 MHz	Polarization	Vertical
-----------	---------------------------	--------------	----------

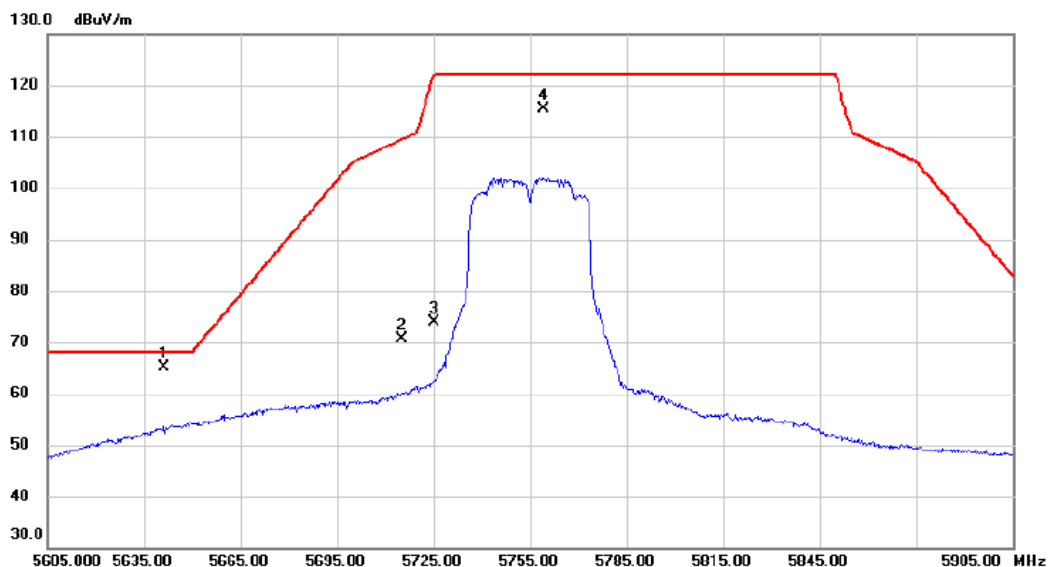


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5460.000	44.98	15.39	60.37	74.00	-13.63	peak	
2		5460.000	36.38	15.39	51.77	54.00	-2.23	AVG	
3		5470.000	48.66	15.39	64.05	68.20	-4.15	peak	
4	*	5596.000	101.64	15.76	117.40	68.20	49.20	peak	No Limit
5	X	5596.300	90.87	15.76	106.63	68.20	38.43	AVG	No Limit

REMARKS:

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

Test Mode	TX AX(HE40) Mode 5755 MHz	Polarization	Vertical
-----------	---------------------------	--------------	----------

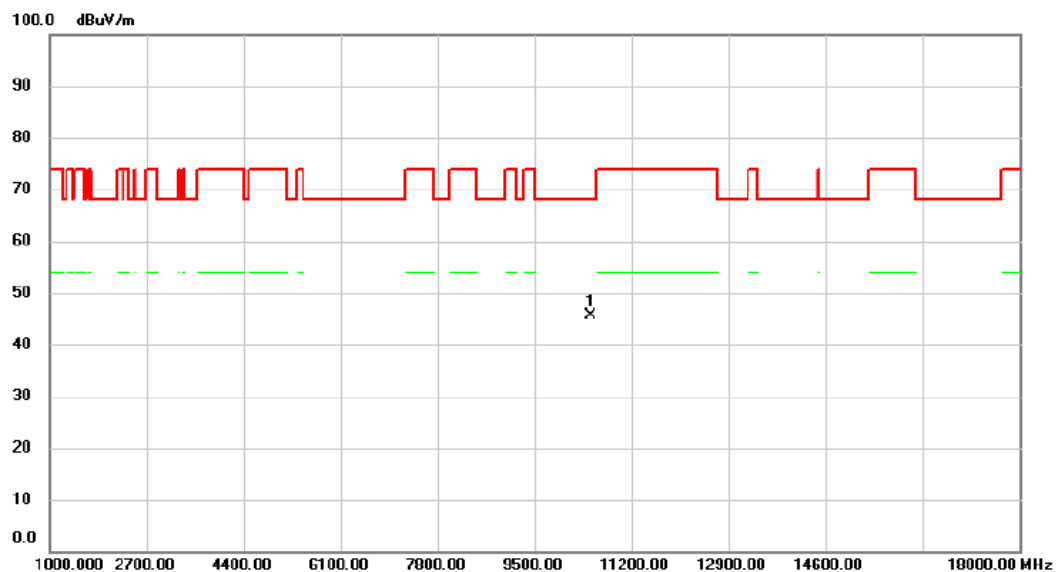


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5641.300	49.31	15.93	65.24	68.20	-2.96	peak	
2	5715.000	54.35	16.22	70.57	109.40	-38.83	peak	
3	5725.000	57.62	16.26	73.88	122.20	-48.32	peak	
4	5759.200	99.04	16.38	115.42	122.20	-6.78	peak	No Limit

REMARKS:

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

Test Mode	TX AX(HE40) Mode 5230 MHz	Polarization	Vertical
-----------	---------------------------	--------------	----------

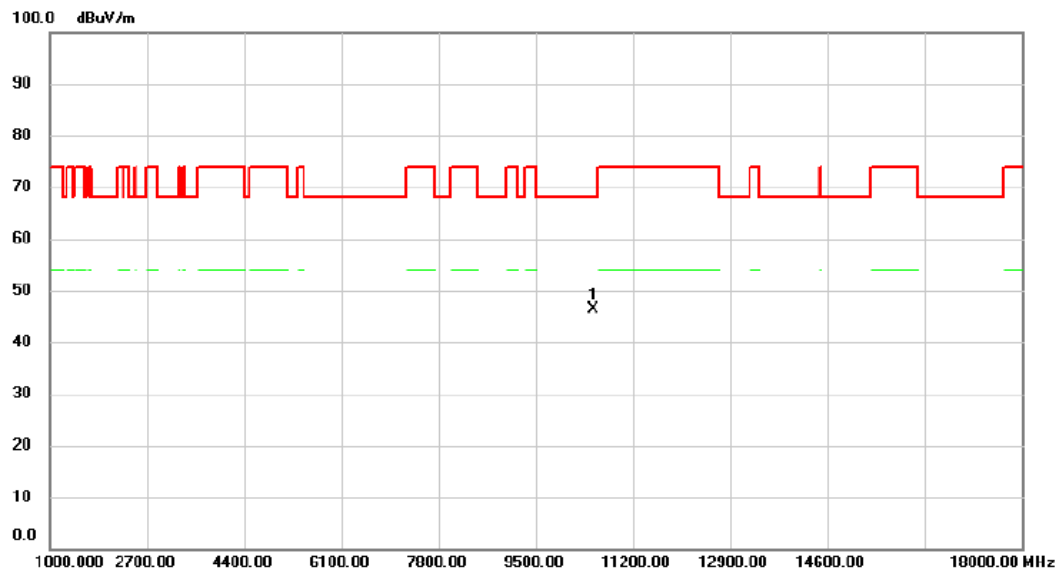


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10478.300	35.23	10.43	45.66	68.20	-22.54	peak	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 5270 MHz	Polarization	Vertical
-----------	---------------------------	--------------	----------

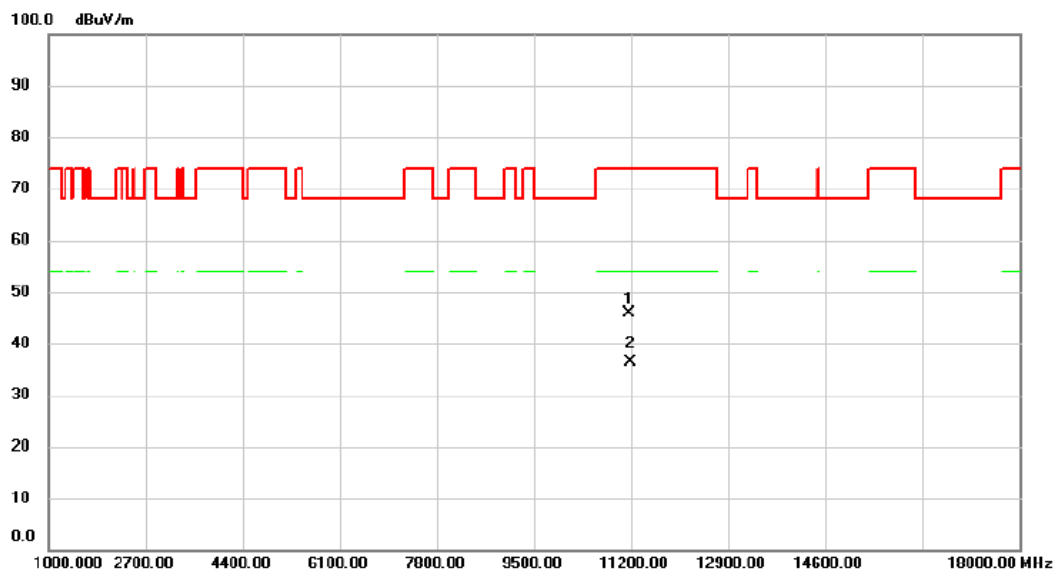


No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10515.250	35.87	10.50	46.37	68.20	-21.83	peak	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 5590 MHz	Polarization	Vertical
-----------	---------------------------	--------------	----------



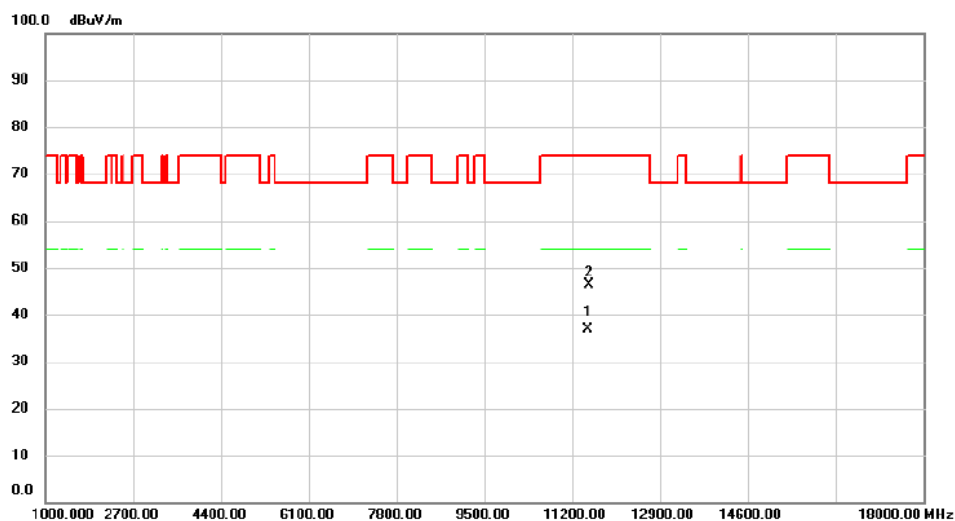
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11155.800	34.24	11.64	45.88	74.00	-28.12	peak	
2	*	11192.300	24.66	11.71	36.37	54.00	-17.63	AVG	

REMARKS:

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

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

Test Mode	TX AX(HE40) Mode 5755 MHz	Polarization	Vertical
-----------	---------------------------	--------------	----------



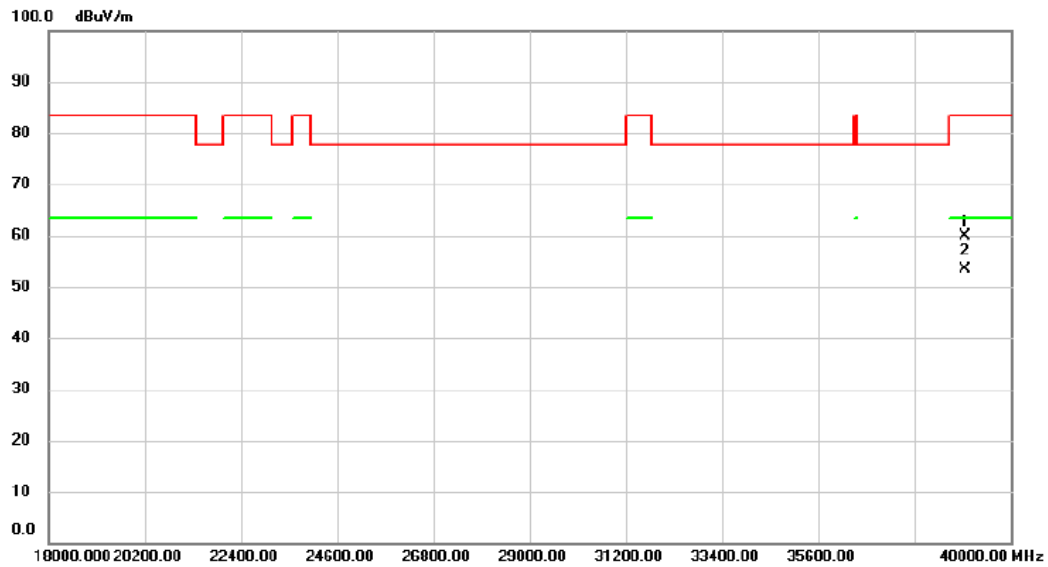
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11498.450	24.44	12.40	36.84	54.00	-17.16	AVG	
2		11527.500	33.82	12.44	46.26	74.00	-27.74	peak	

REMARKS:

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

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

Test Mode	TX AX(HE40) Mode 5755 MHz	Polarization	Vertical
-----------	---------------------------	--------------	----------

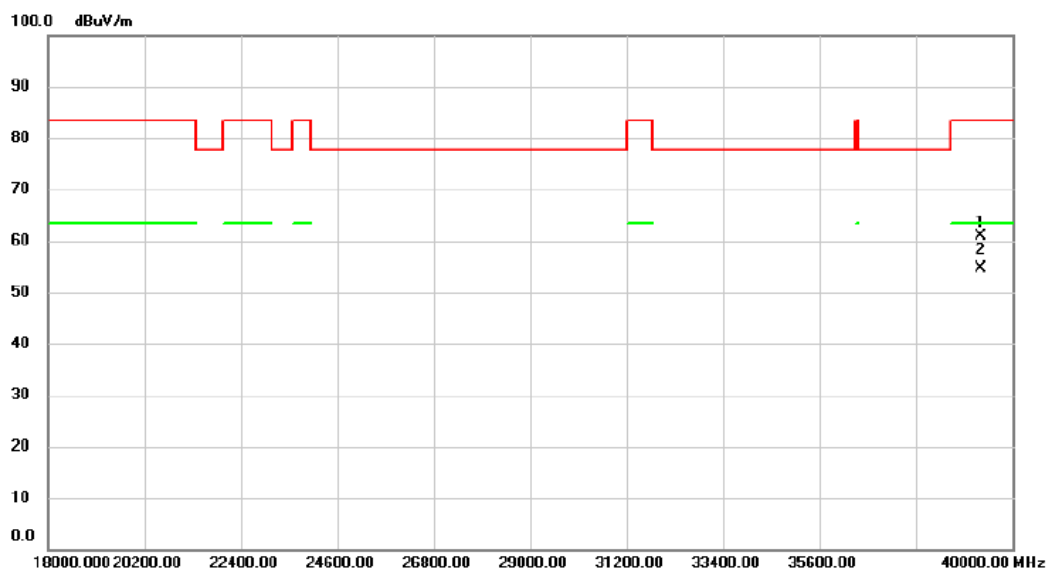


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		38944.000	49.76	10.22	59.98	83.50	-23.52	peak	
2	*	38944.000	43.20	10.22	53.42	63.50	-10.08	AVG	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 5755 MHz	Polarization	Horizontal
-----------	---------------------------	--------------	------------



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		39285.000	50.54	10.33	60.87	83.50	-22.63	peak	
2	*	39285.000	44.21	10.33	54.54	63.50	-8.96	AVG	

REMARKS:

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

End of Test Report