




FCC Radio Test Report

FCC ID: 2APRGRE12

This report concerns: **Original Grant**

Project No. : 2403G074
Equipment : AC1200 Dual Band Wi-Fi Range Extender
Brand Name : Cudy
Test Model : RE1200
Series Model : N/A
Applicant : Shenzhen Cudy Technology Co., Ltd.
Address : Room A606, Gaoxinqi Industrial Park, Liuxianyi Road, Baoan District, Shenzhen, China
Manufacturer : Shenzhen Cudy Technology Co., Ltd.
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Factory : Shenzhen Cudy Technology Co., Ltd.
Address : Room A606, Gaoxinqi Industrial Park, Liuxianyi Road, Baoan District, Shenzhen, China
Date of Receipt : Mar. 14, 2024
Date of Test : Mar. 18, 2024 ~ May 16, 2024
Issued Date : May 27, 2024
Report Version : R00
Test Sample : Engineering Sample No.: SSL2024031416 for radiated & AC Power Line Conducted Emissions, SSL2024031416 for power, SSL2024031417 for other conducted.
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.

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Declaration

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

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** 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**.

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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-1-2403G074	R00	Original Report.	May 27, 2024	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 558074 D01 15.247 Meas Guidance v05r02

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 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

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Dalang, 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 95.45% 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-CB02	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-CB03 (3m)	CISPR	1GHz ~ 6GHz	4.08
		6GHz ~ 18GHz	4.62

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.36

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	62%	AC 120V/60Hz	Hayden Chen	Mar. 25, 2024
Radiated Emissions-9kHz to 30 MHz	23°C	59%	AC 120V/60Hz	Hayden Chen	Apr. 29, 2024
Radiated Emissions-30MHz to 1000MHz	23°C	51%	AC 120V/60Hz	Jensen Zhou	Apr. 11, 2024
Radiated Emissions-Above 1000MHz	22-25°C	51-56%	AC 120V/60Hz	Terry Deng Jensen Zhou	Apr. 12, 2024 May 10, 2024~ May 15, 2024
Bandwidth	23-24°C	51-56%	AC 120V/60Hz	Hayden Chen Jensen Zhou	Apr. 19, 2024 Apr. 24, 2024
Maximum Output Power	21-23°C	54-55%	AC 120V/60Hz	Chen Mo	May 16, 2024
Conducted Spurious Emissions	23-24°C	51-56%	AC 120V/60Hz	Hayden Chen Jensen Zhou	Apr. 19, 2024 Apr. 24, 2024
Power Spectral Density	23-24°C	51-56%	AC 120V/60Hz	Hayden Chen Jensen Zhou	Apr. 19, 2024 Apr. 24, 2024

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 Dual Band Wi-Fi Range Extender
Brand Name	Cudy
Test Model	RE1200
Series Model	N/A
Model Difference(s)	N/A
Hardware Version	V1
Software Version	FW1.15.33
Power Source	AC Mains.
Power Rating	100-240V~50/60Hz, 0.3A
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps
Maximum Output Power Non Beamforming	IEEE 802.11n(HT20): 21.62 dBm (0.1452 W)
Maximum Output Power Beamforming	IEEE 802.11n(HT20): 21.05 dBm (0.1274 W)



Note:

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

2. Channel List:

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

3. Antenna Specification:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1		U00T01S126N00635	Dipole	IPEX	3.49
2		U00T01S126N00635	Dipole	IPEX	3.49

Note:

- 1) This EUT supports MIMO, any transmit signals are correlated with each other, so Directional gain= $G_{ANT}+10\log(N)$ dBi, that is Directional gain= $3.49+10\log(2)$ dBi=6.50. So the output power limit is $30-(6.50-6)=29.50$, the power spectral density limit is $8-(6.50-6)=7.50$.
- 2) Beamforming Gain is 3 dBi, so Directional gain= $3+3.49=6.49$. So the output power limit is $30-(6.49-6)=29.51$.

4. Table for Antenna Configuration:

Non Beamforming:

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

Beamforming:

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

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(HT40) Mode Channel 03/06/09
Mode 5	TX N(HT20) Mode Channel 06

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 5	TX N(HT20) Mode Channel 06

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 5	TX N(HT20) Mode Channel 06

Radiated emissions test- Above 1GHz_Non Beamforming	
Final Test 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(HT40) Mode Channel 03/06/09

Maximum Output Power test_Non Beamforming	
Final Test 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(HT40) Mode Channel 03/06/09

Maximum Output Power test_Beamforming	
Final Test Mode	Description
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09

Other Conducted test_Non Beamforming	
Final Test 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(HT40) Mode Channel 03/06/09

NOTE:

- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX N(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) The measurements for Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.
- (6) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical and recorded.

3.3 PARAMETERS OF TEST SOFTWARE

Non Beamforming

Test Software Version	QATool_Dbg 0.0.2.6		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	1E	1B	18
IEEE 802.11g	19	20	1C
IEEE 802.11n(HT20)	16	20	19
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	10	1A	14

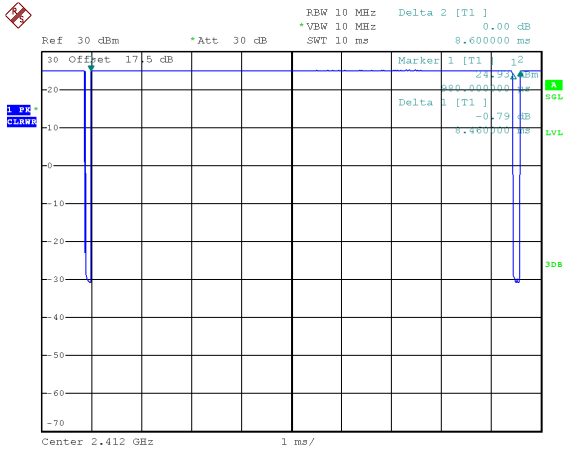
Beamforming

Test Software Version	QATool_Dbg 0.0.2.6		
Frequency (MHz)	2412	2437	2462
IEEE 802.11n(HT20)	15	1F	18
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	0F	19	13

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.

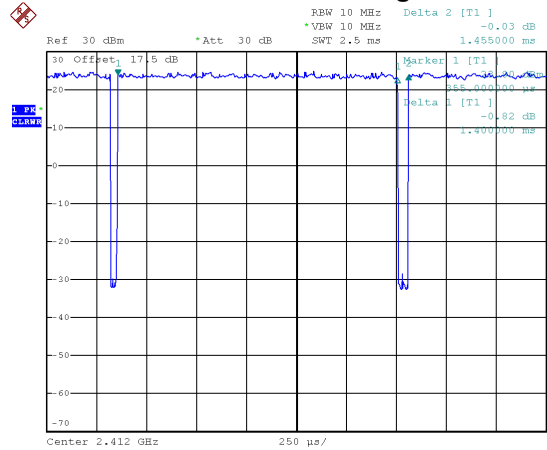
IEEE 802.11b



Date: 19.APR.2024 09:36:15

Duty cycle = $8.460 \text{ ms} / 8.600 \text{ ms} = 98.37\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$

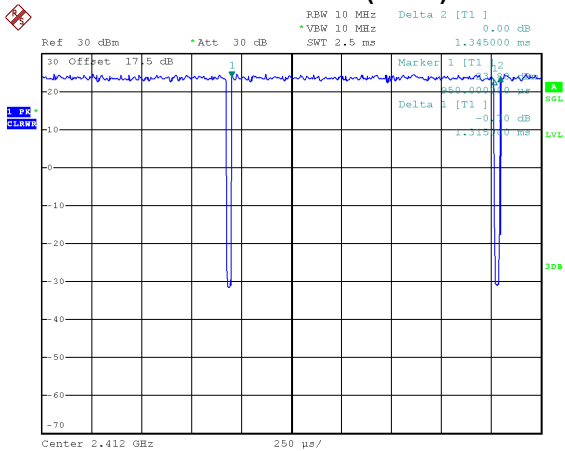
IEEE 802.11g



Date: 19.APR.2024 09:37:44

Duty cycle = $1.400 \text{ ms} / 1.455 \text{ ms} = 96.22\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.17$

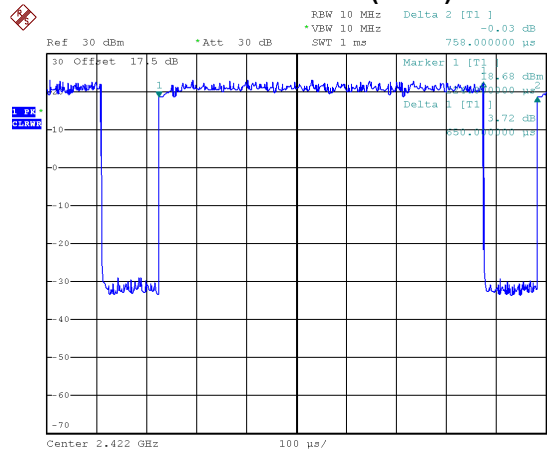
IEEE 802.11n(HT20)



Date: 19.APR.2024 09:38:49

Duty cycle = $1.315 \text{ ms} / 1.345 \text{ ms} = 97.77\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.10$

IEEE 802.11n(HT40)



Date: 19.APR.2024 09:39:52

Duty cycle = $0.650 \text{ ms} / 0.758 \text{ ms} = 85.75\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.67$

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 714 Hz.

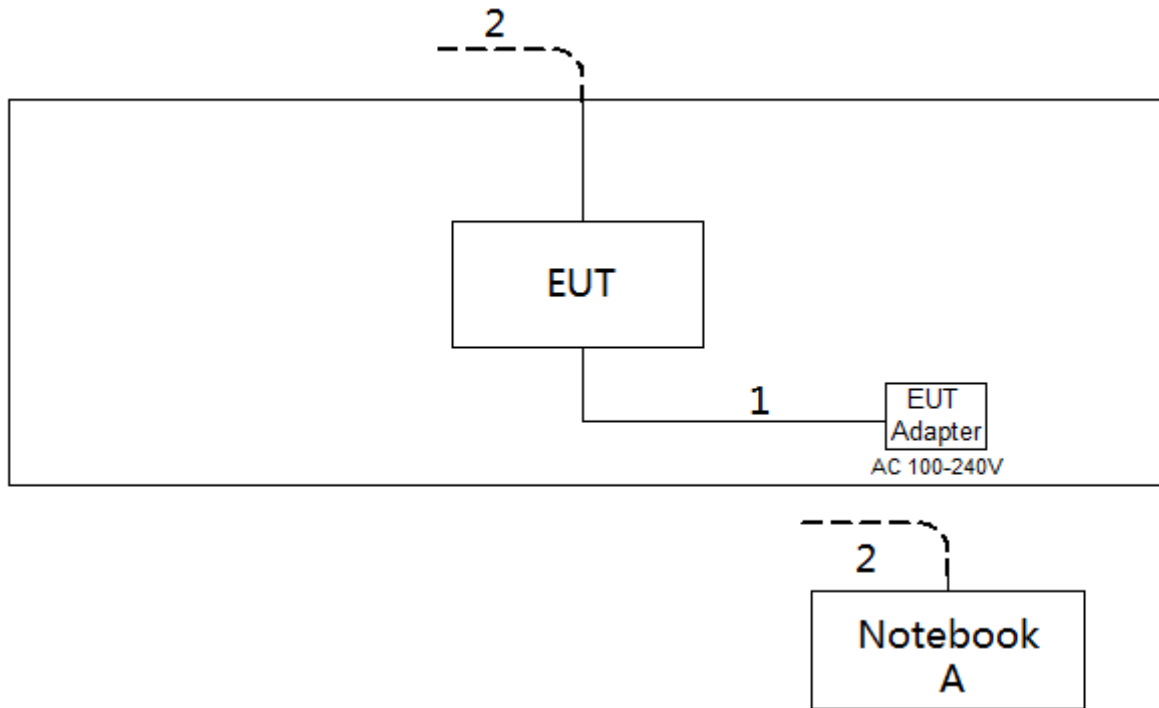
For IEEE 802.11n(HT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 760 Hz.

For IEEE 802.11n(HT40):

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

3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Honor	14SER5 3500	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.5m
2	RJ45 Cable	NO	NO	10m

3.7 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain and beamforming gain are 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 of Emission (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of "*" marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

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.

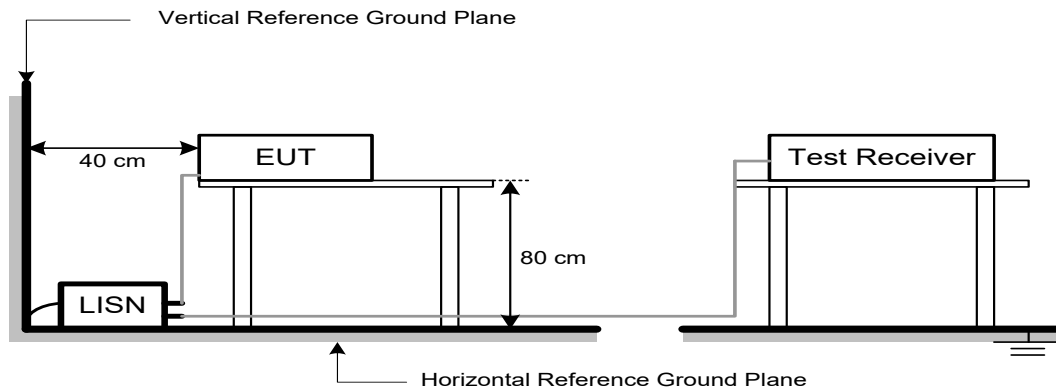
The following table is the setting of the receiver:

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 (dB μ V/m)		Harmonic at 1m (dB μ V/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	83.5 (Note 4)	63.5 (Note 4)

NOTE:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dB μ V/m)=20log Emission level (uV/m).
- (4)

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

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

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:

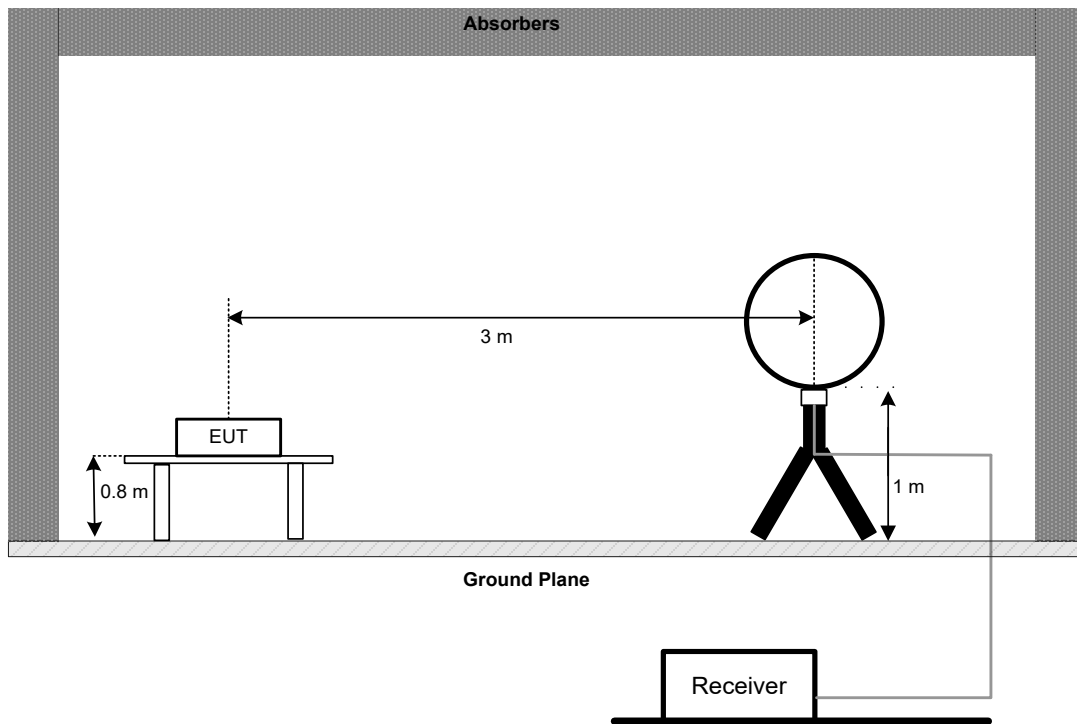
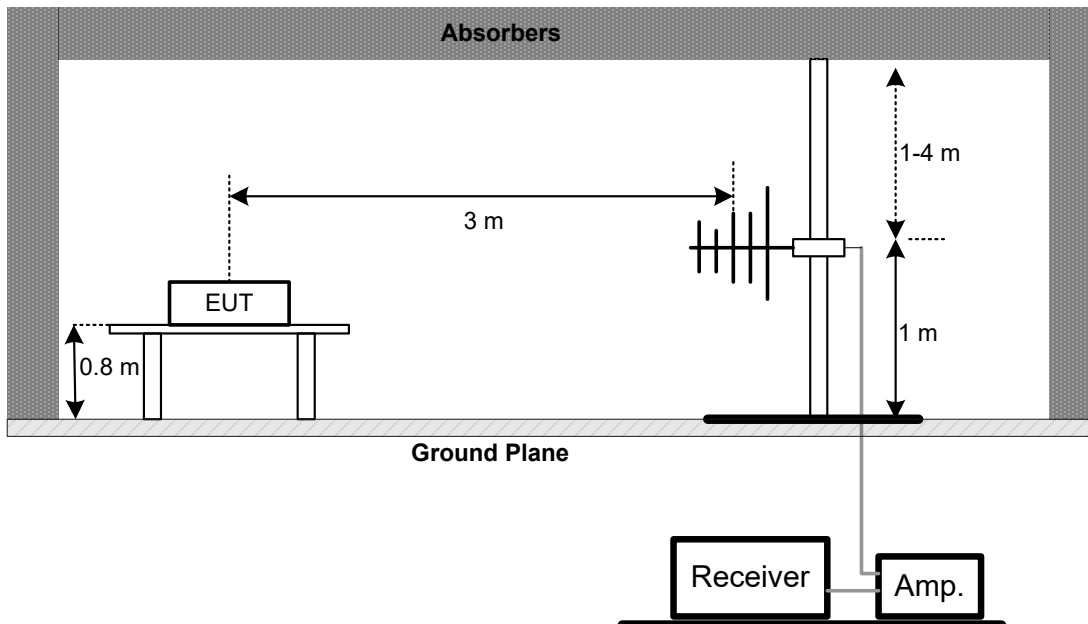
Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

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

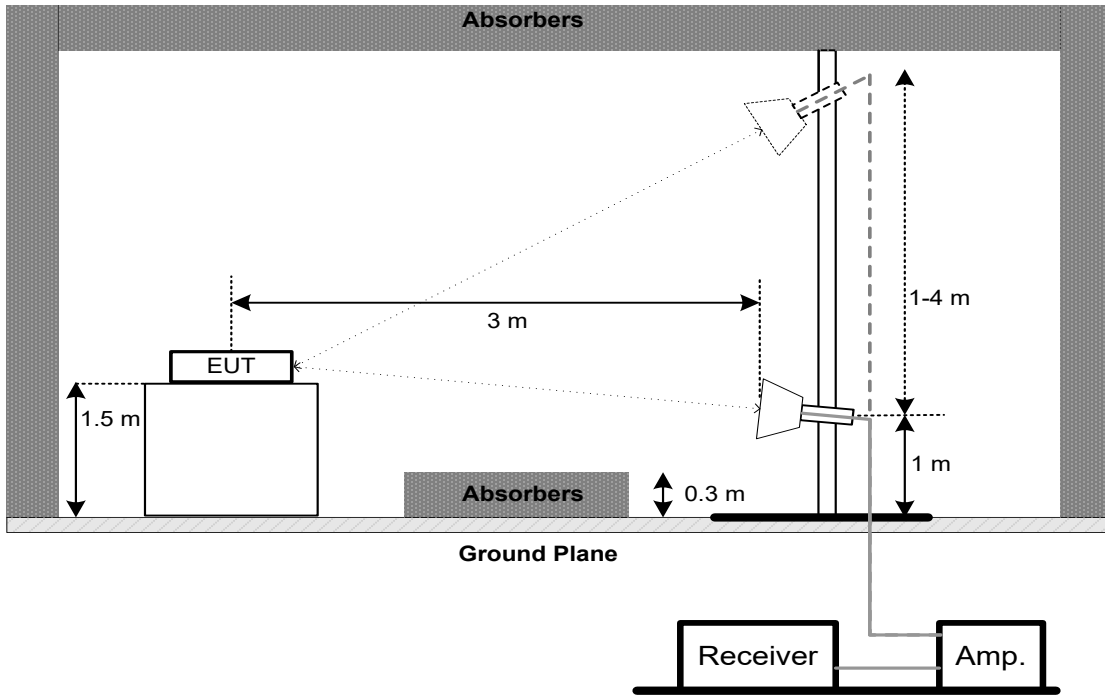
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

5.3 DEVIATION FROM TEST STANDARD

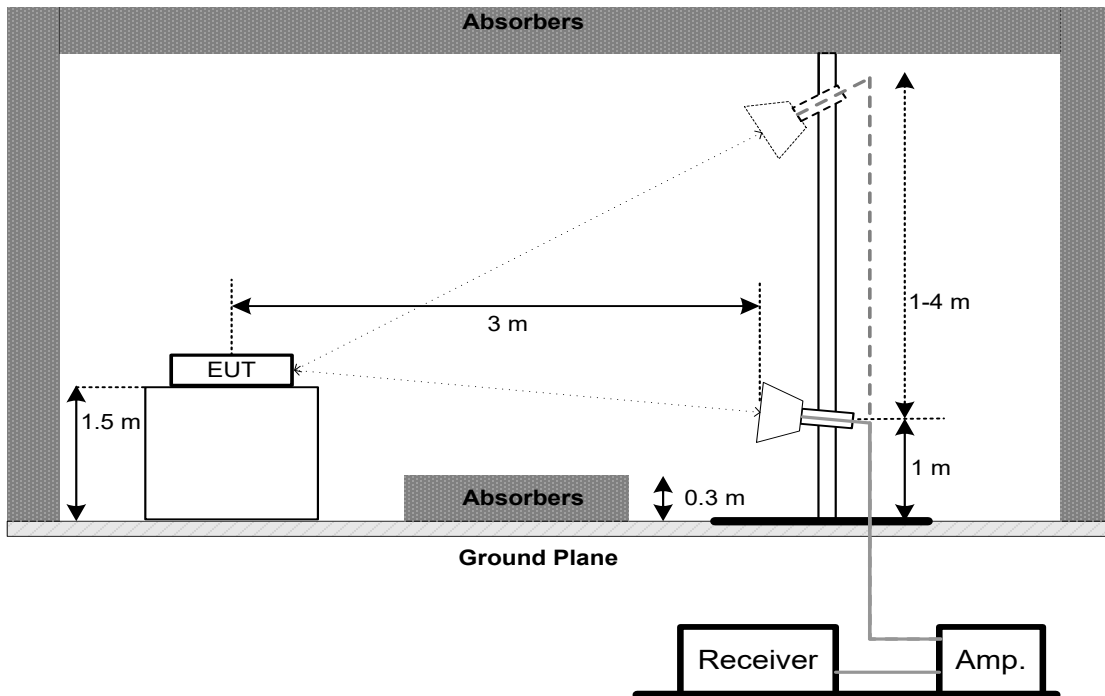
No deviation.

5.4 TEST SETUP**9 kHz to 30 MHz****30 MHz to 1 GHz**

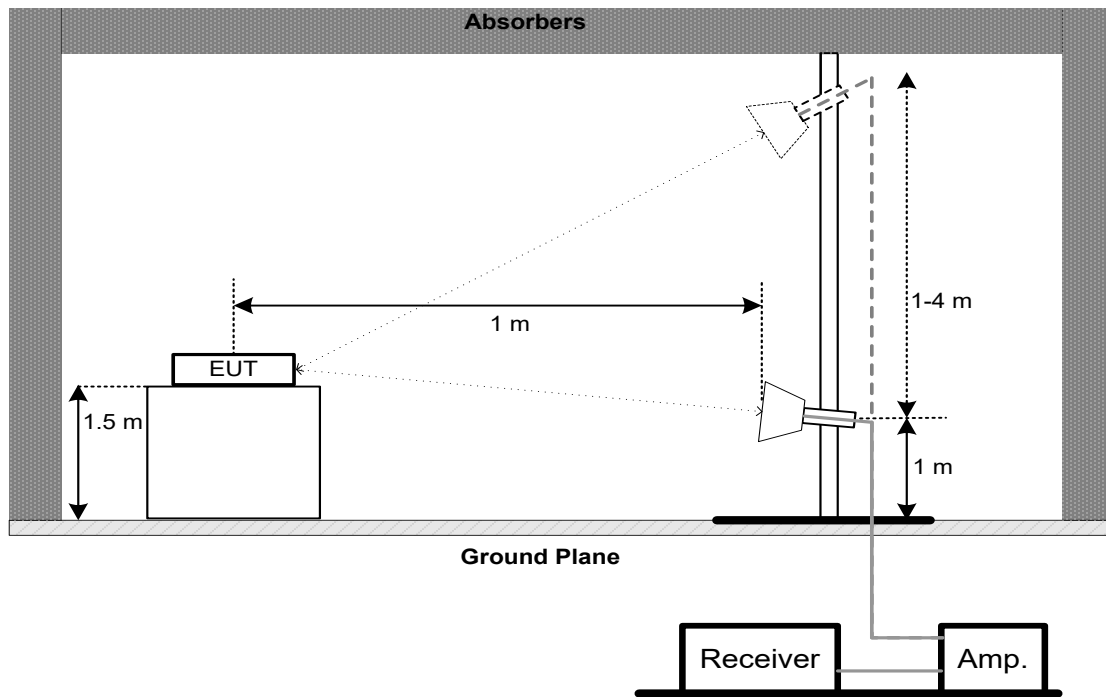
Above 1 GHz Band edge



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

For 99% Emission Bandwidth:

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

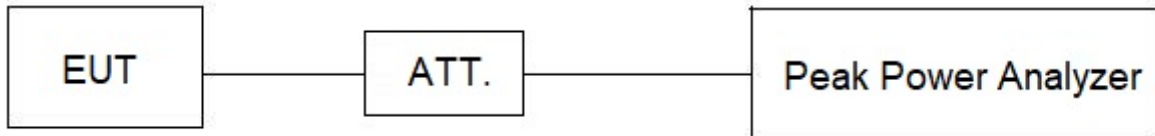
7.2 TEST PROCEDURE

- 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 of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

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

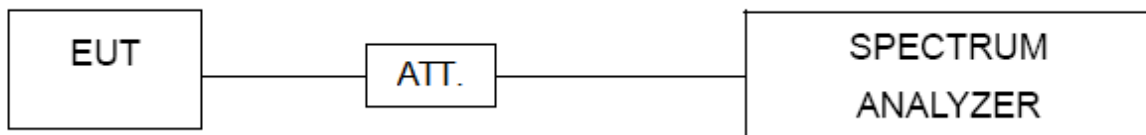
- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The following table is the setting of the spectrum analyzer:

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 Frequency	25 MHz (20 MHz) / 60 MHz (40 MHz)
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	ESR3	103027	Jun. 16, 2024
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Dec. 22, 2024
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
4	Cable	N/A	SFT205-NMNM-9 M-001	9M	Nov. 27, 2024
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	EMI Test Receiver	Keysight	N9038A	MY56400060	Dec. 22, 2024
3	Cable	RW	LMR-400(30MHz-1 GHz)(10m+2.5m+0.8M)	N/A	Jul. 04, 2024
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	1266 Chamber room	ETS	12*6*6	N/A	May 01, 2024

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	1462	Dec. 13, 2024
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 13, 2024
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	Nov. 17, 2024
4	Cable	RegalWay	LMR400-NMNM-12.5m	N/A	Jul. 04, 2024
5	Cable	RegalWay	LMR400-NMNM-3m	N/A	Jul. 04, 2024
6	Cable	RegalWay	LMR400-NMNM-0.5m	N/A	Jul. 04, 2024
7	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
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 17, 2024

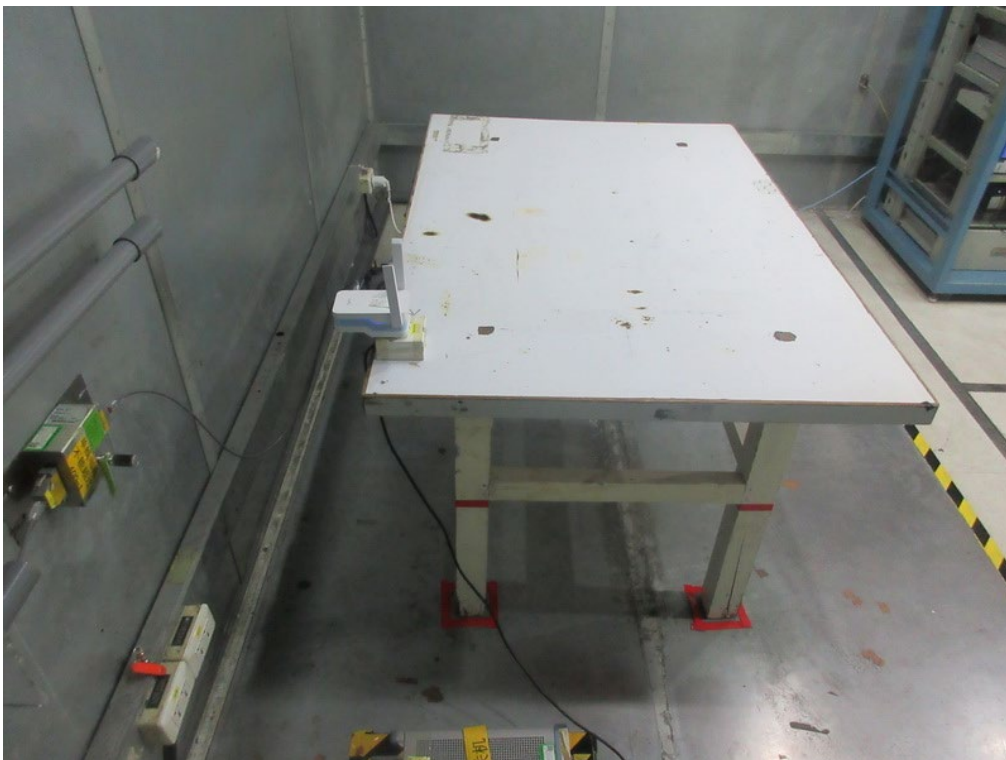
Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Nov. 17, 2024
3	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63380204	Nov. 17, 2024
4	Double Ridged Guide Antenna	ETS	3115	75789	May 31, 2024
5	Cable	RegalWay	RWLP50-4.0A-SMS M-12.5M	N/A	Feb. 19, 2025
6	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Aug. 08, 2024
7	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-0.8M	N/A	Aug. 08, 2024
8	966 Chamber room	CM	9*6*6	N/A	May 17, 2024
9	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
10	Filter	STI	STI15-9912	N/A	Jun. 16, 2024
11	Positioning Controller	MF	MF-7802	N/A	N/A
12	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
13	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330 -K	619413	Jul. 06, 2024
14	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 26, 2024
15	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 26, 2024
16	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 20, 2024

Bandwidth & Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP38	100852	Jun. 16, 2024
2	Attenuator	Talent Microwave	TA10A0-S-26.5	N/A	N/A
3	DC Block	N/A	N/A	N/A	N/A
4	Measurement Software	BTL	BTL Conducted Test	N/A	N/A
5	Attenuator	Talent Microwave	TA10A0-S-26.5	N/A	N/A
6	Spectrum Analyzer	R&S	FSP40	100185	Jun. 16, 2024

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Jun. 17, 2024
2	Wideband power sensor	Keysight	N1923A	MY58310004	Jun. 17, 2024
3	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A

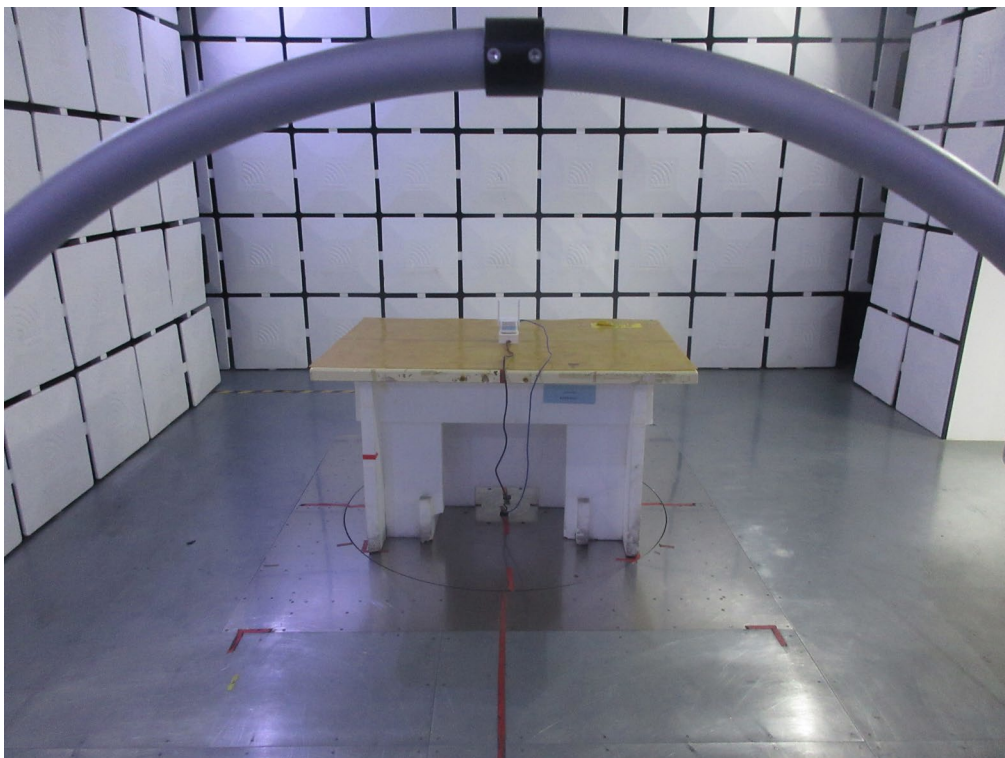
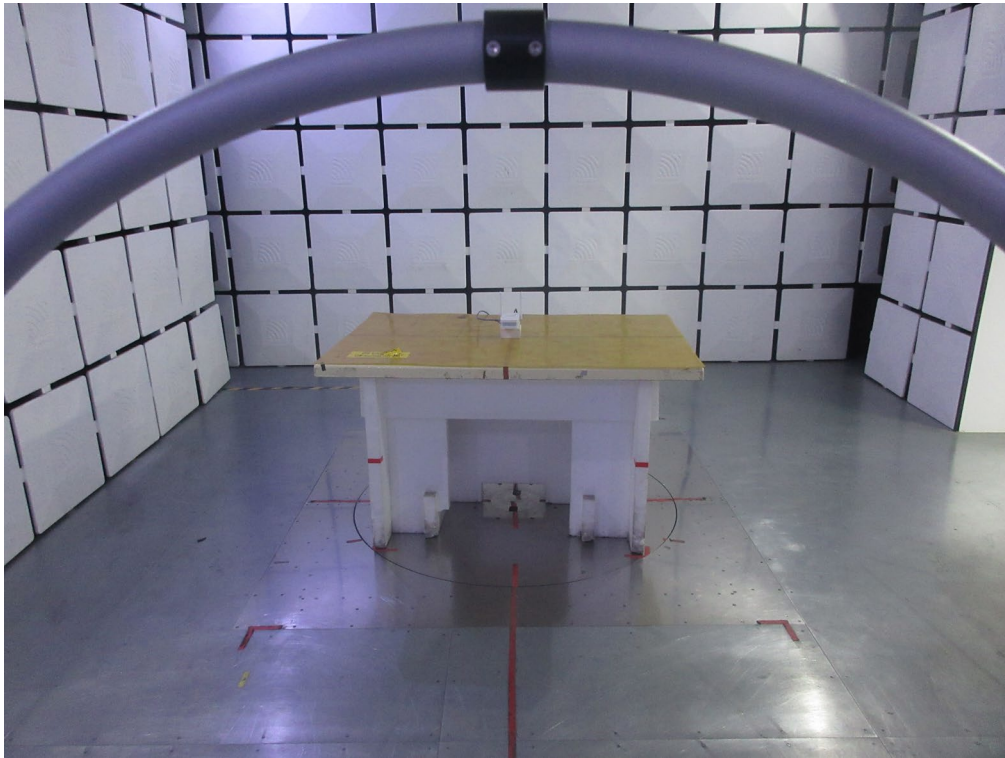
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

11. EUT TEST PHOTO**AC Power Line Conducted Emissions Test Photos**

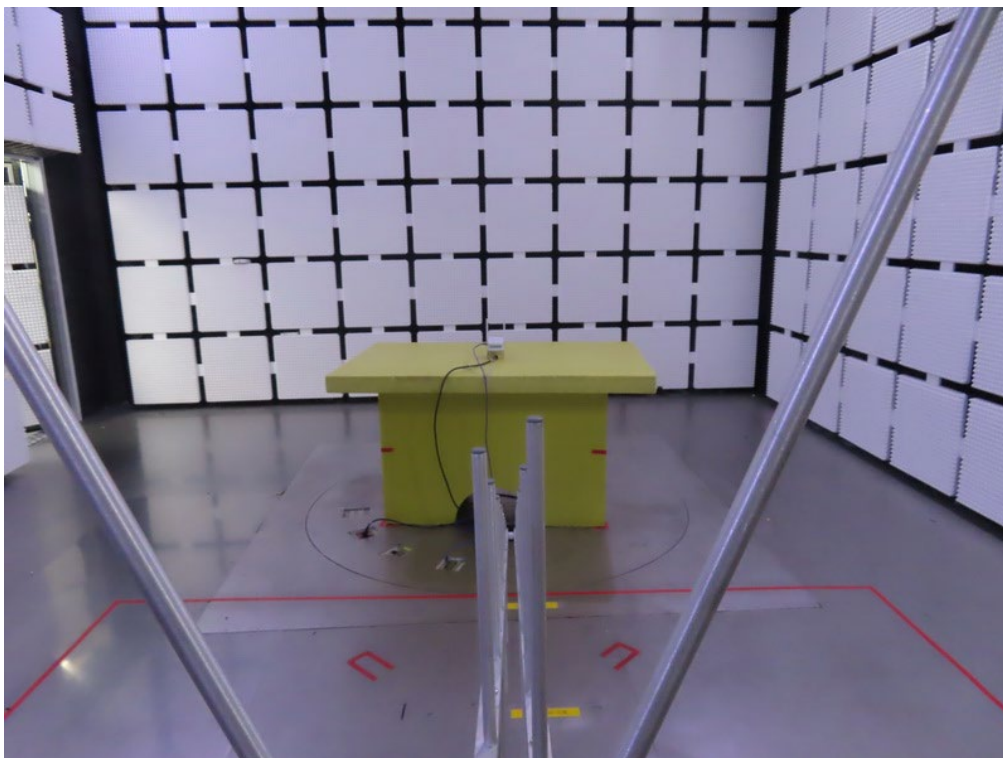
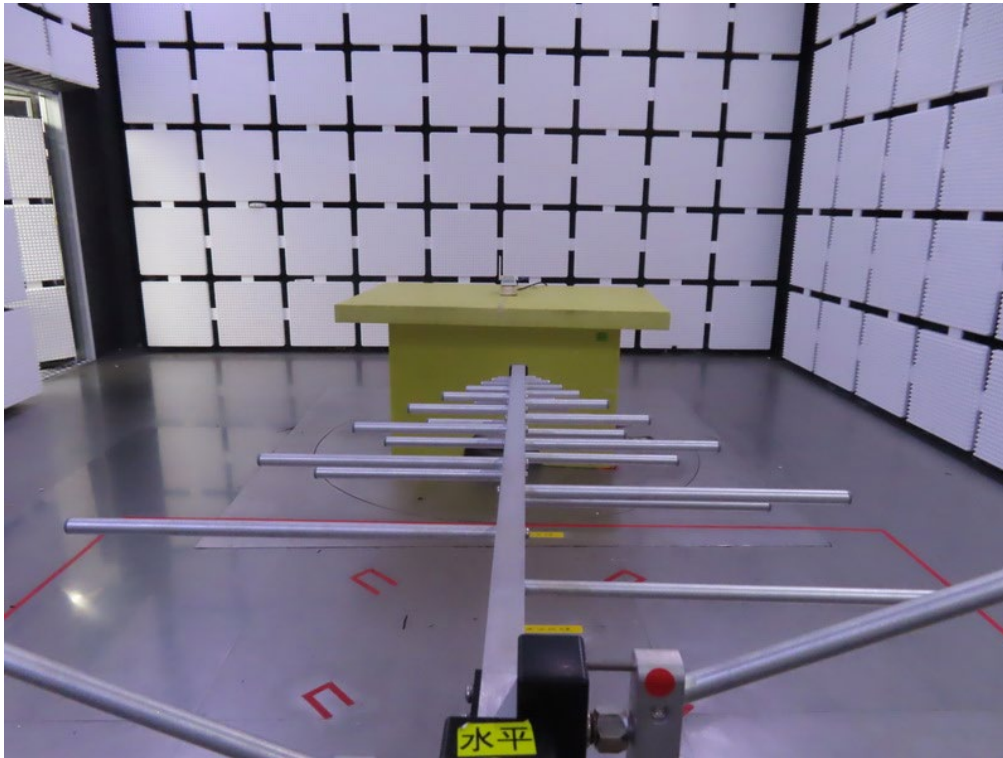
Radiated Emissions Test Photos

9 kHz to 30 MHz

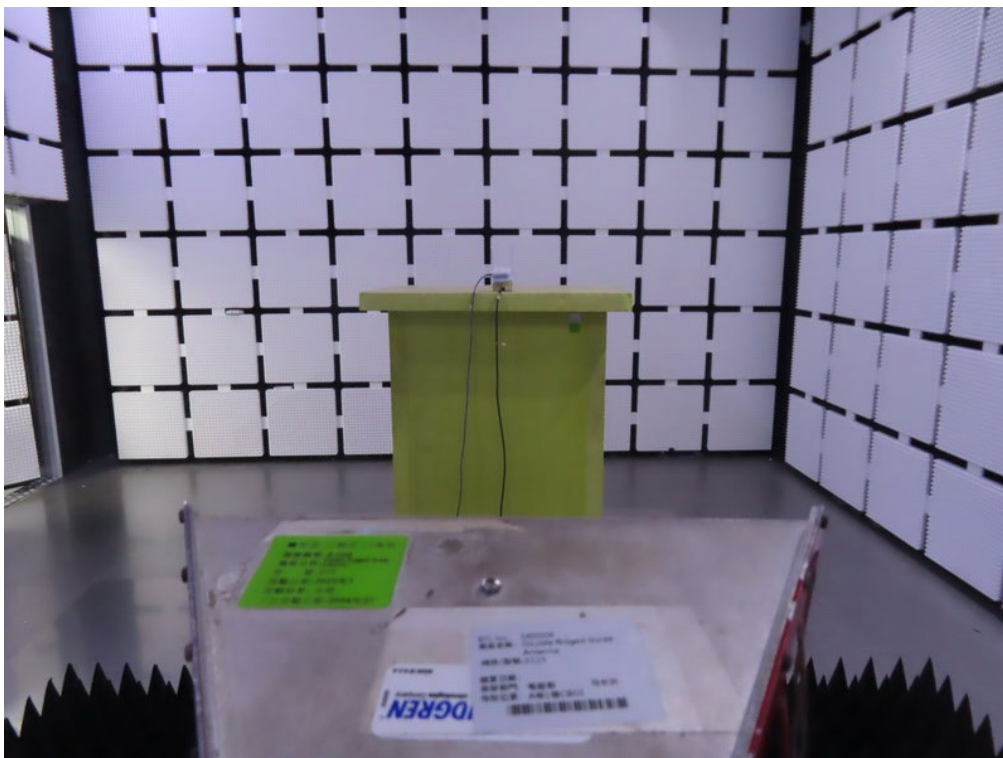
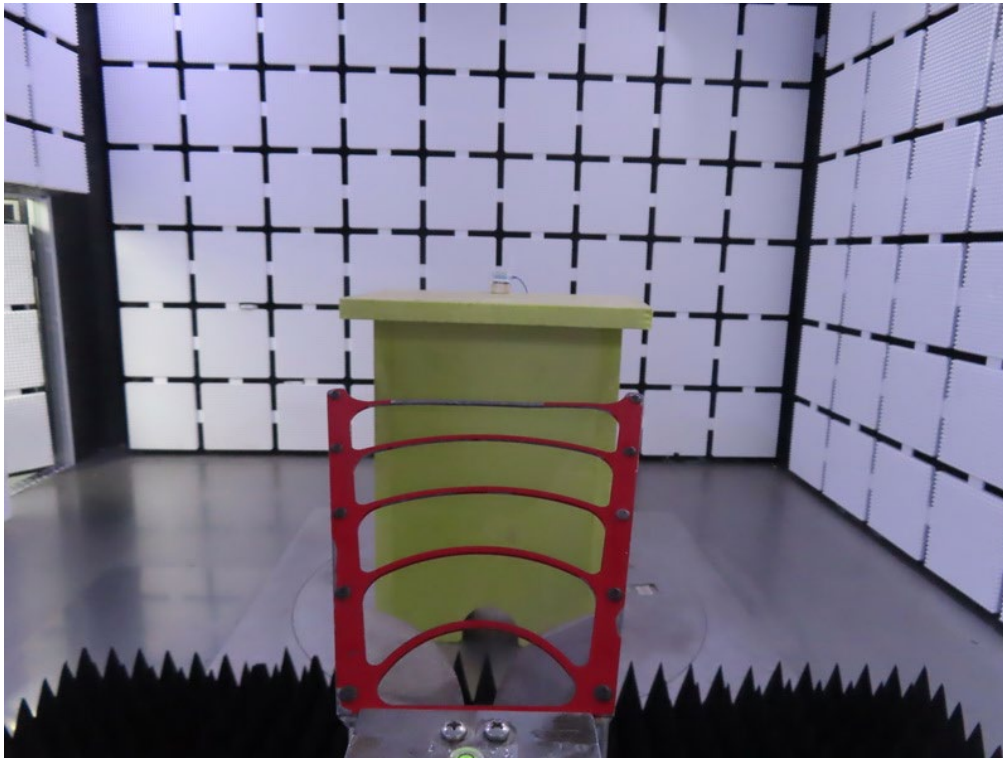


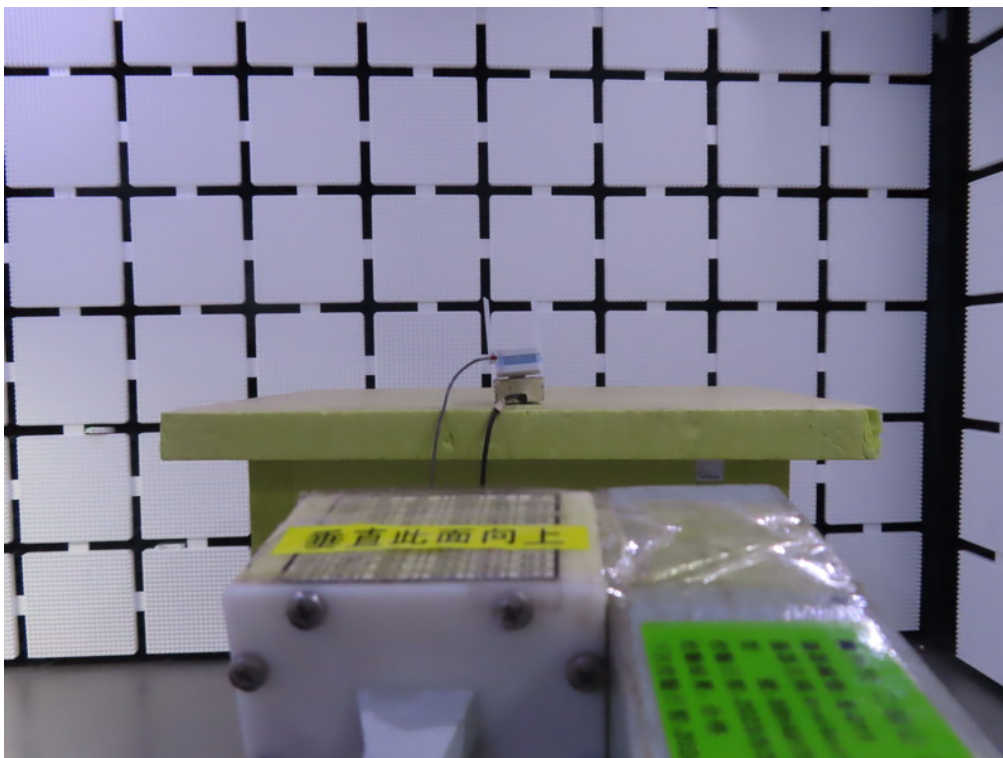
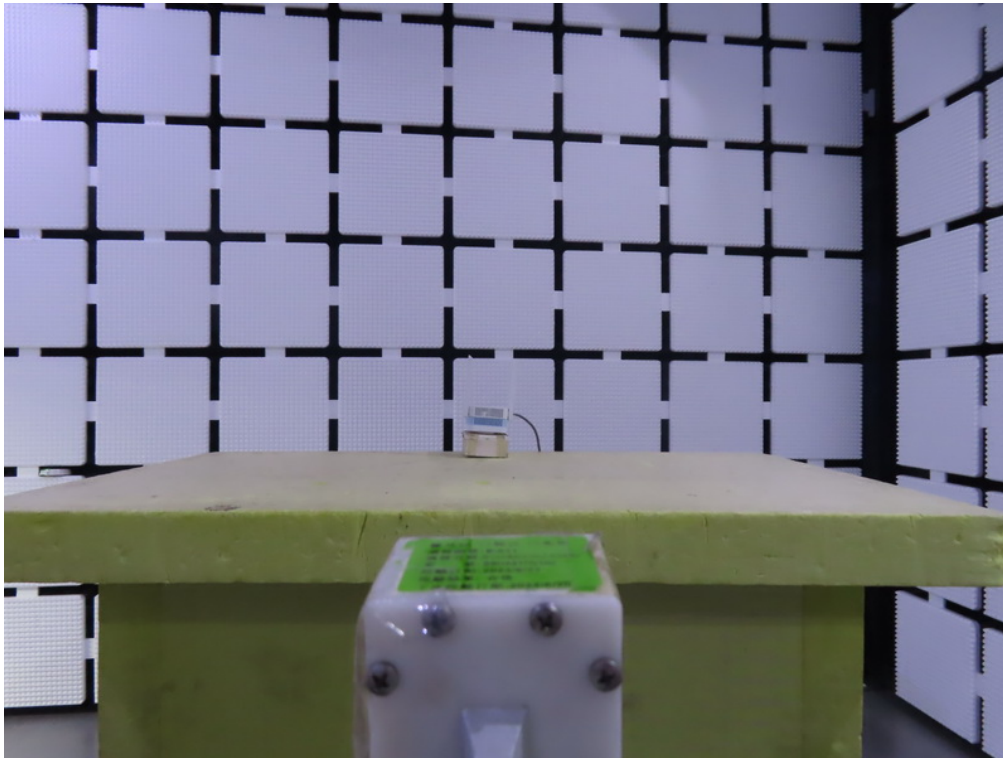
Radiated Emissions Test Photos

30 MHz to 1 GHz

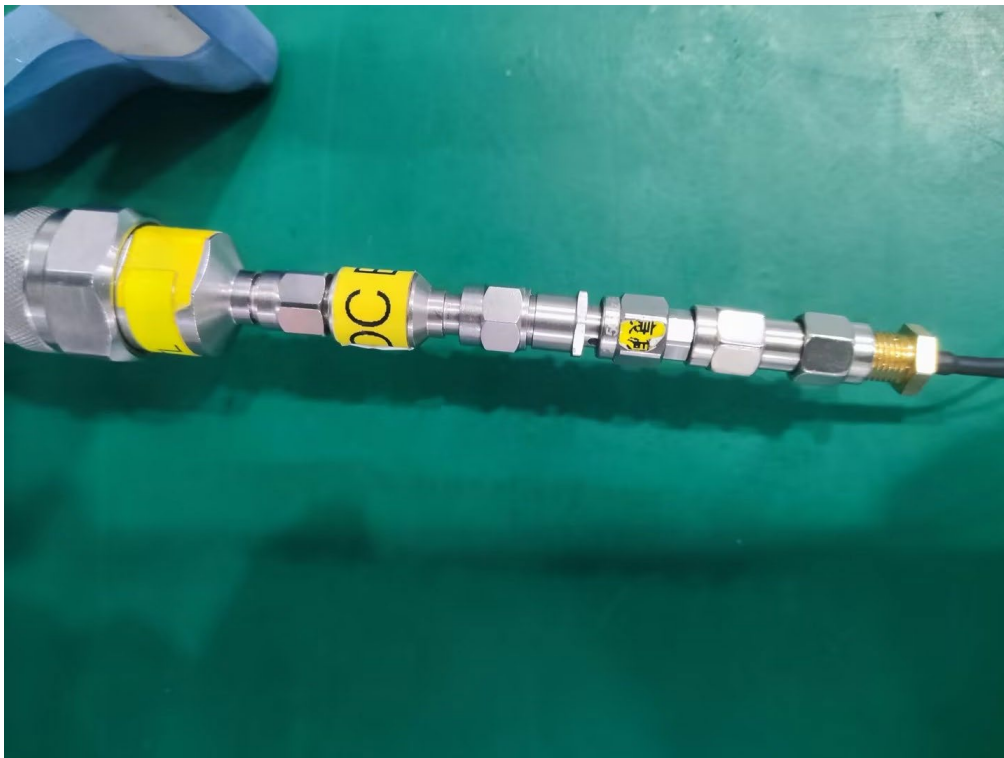
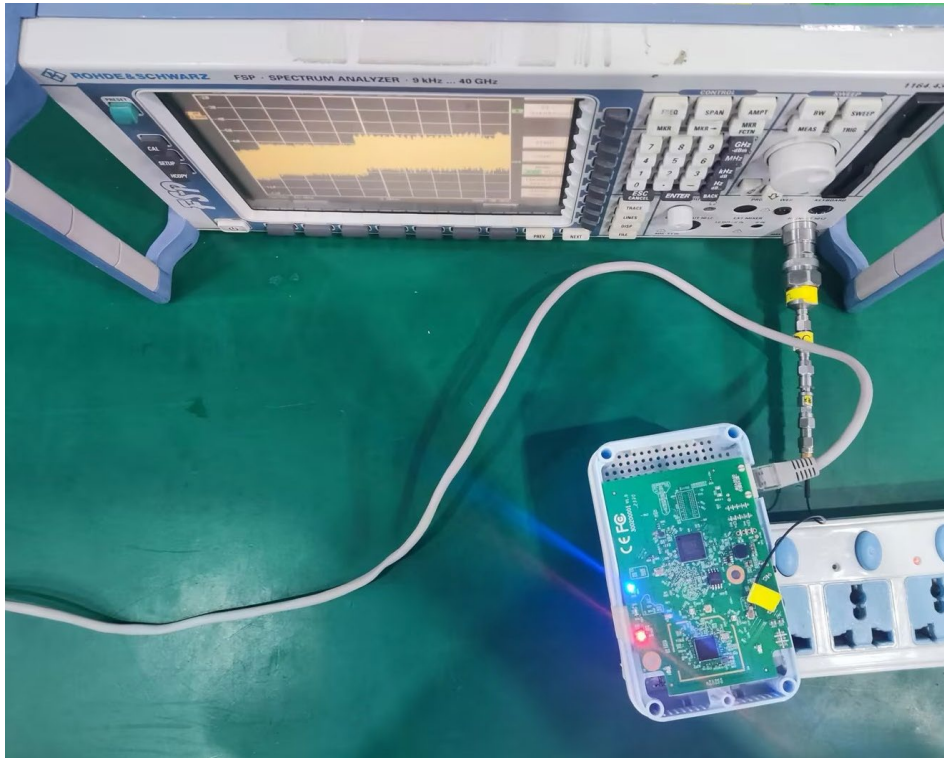


Radiated Emissions Test Photos
Band edge & Harmonic (1 GHz to 18 GHz)



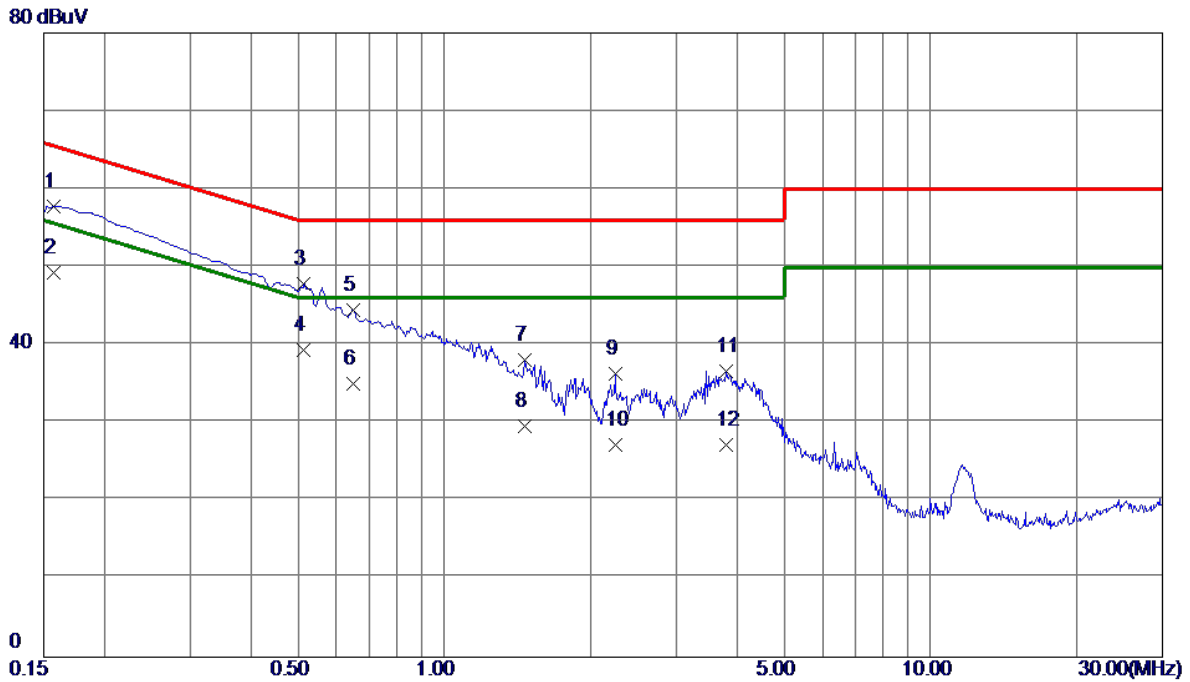
Radiated Emissions Test Photos**Harmonic (18 GHz to 26.5 GHz)**

Conducted Test Photos



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

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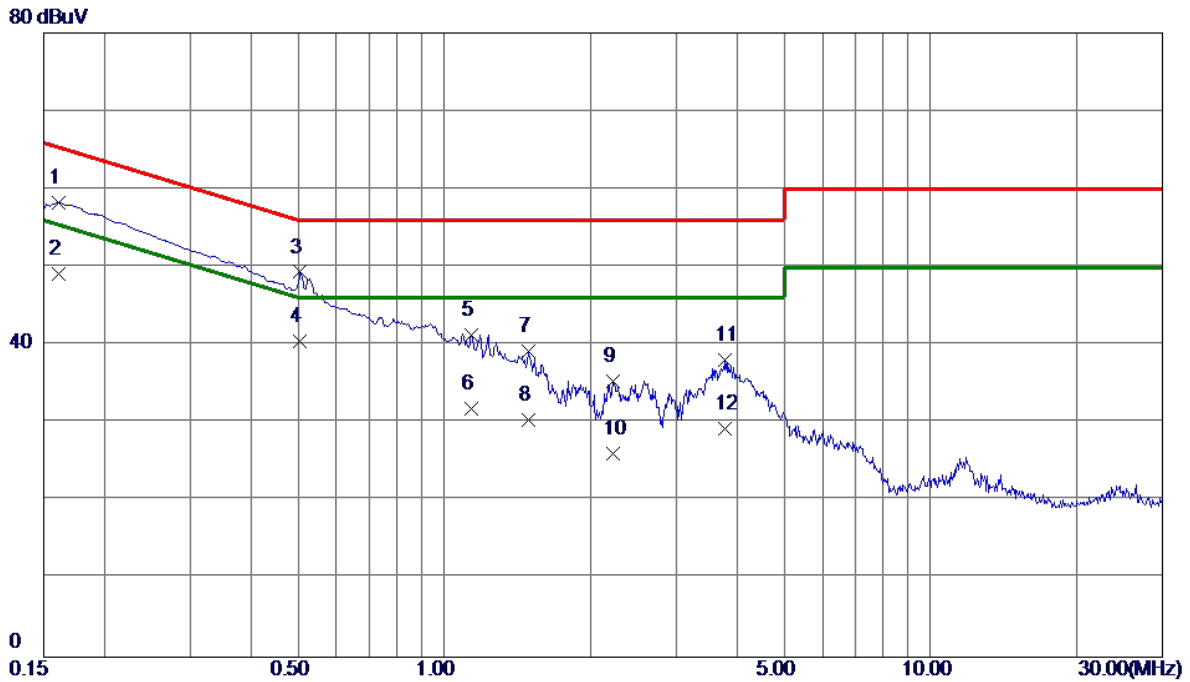


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1568	48.00	9.74	57.74	65.63	-7.89	QP	
2 *	0.1568	39.60	9.74	49.34	55.63	-6.29	AVG	
3	0.5144	38.13	9.79	47.92	56.00	-8.08	QP	
4	0.5144	29.50	9.79	39.29	46.00	-6.71	AVG	
5	0.6495	34.72	9.79	44.51	56.00	-11.49	QP	
6	0.6495	25.30	9.79	35.09	46.00	-10.91	AVG	
7	1.4640	28.25	9.83	38.08	56.00	-17.92	QP	
8	1.4640	19.70	9.83	29.53	46.00	-16.47	AVG	
9	2.2448	26.42	9.87	36.29	56.00	-19.71	QP	
10	2.2448	17.39	9.87	27.26	46.00	-18.74	AVG	
11	3.8063	26.76	9.94	36.70	56.00	-19.30	QP	
12	3.8063	17.20	9.94	27.14	46.00	-18.86	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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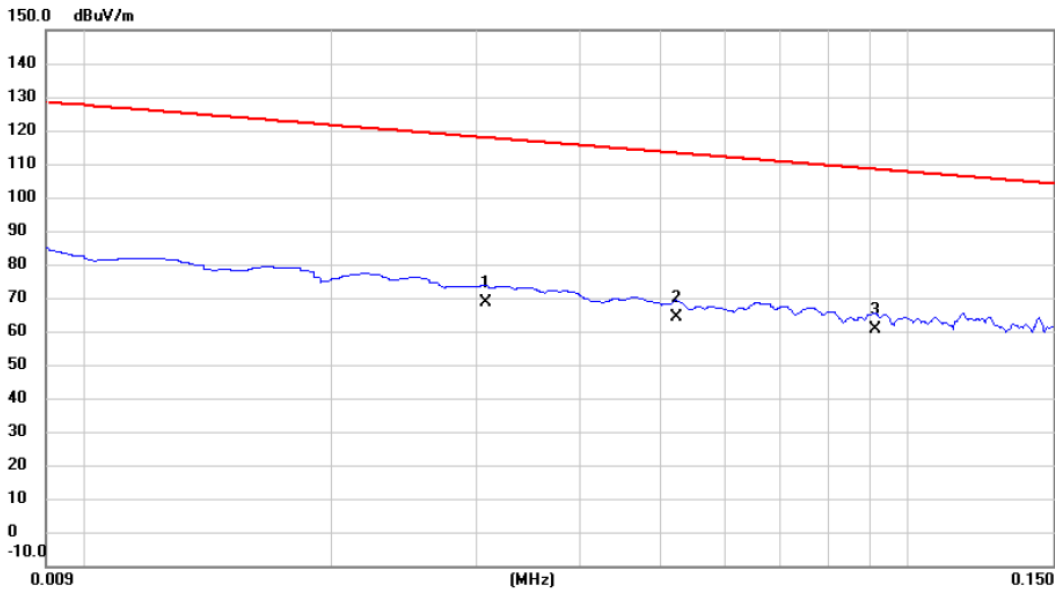
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1613	48.68	9.59	58.27	65.40	-7.13	QP	
2	0.1613	39.60	9.59	49.19	55.40	-6.21	AVG	
3	0.5055	39.71	9.65	49.36	56.00	-6.64	QP	
4 *	0.5055	30.80	9.65	40.45	46.00	-5.55	AVG	
5	1.1377	31.62	9.68	41.30	56.00	-14.70	QP	
6	1.1377	22.10	9.68	31.78	46.00	-14.22	AVG	
7	1.4910	29.49	9.69	39.18	56.00	-16.82	QP	
8	1.4910	20.70	9.69	30.39	46.00	-15.61	AVG	
9	2.2268	25.69	9.72	35.41	56.00	-20.59	QP	
10	2.2268	16.39	9.72	26.11	46.00	-19.89	AVG	
11	3.7860	28.23	9.79	38.02	56.00	-17.98	QP	
12	3.7860	19.50	9.79	29.29	46.00	-16.71	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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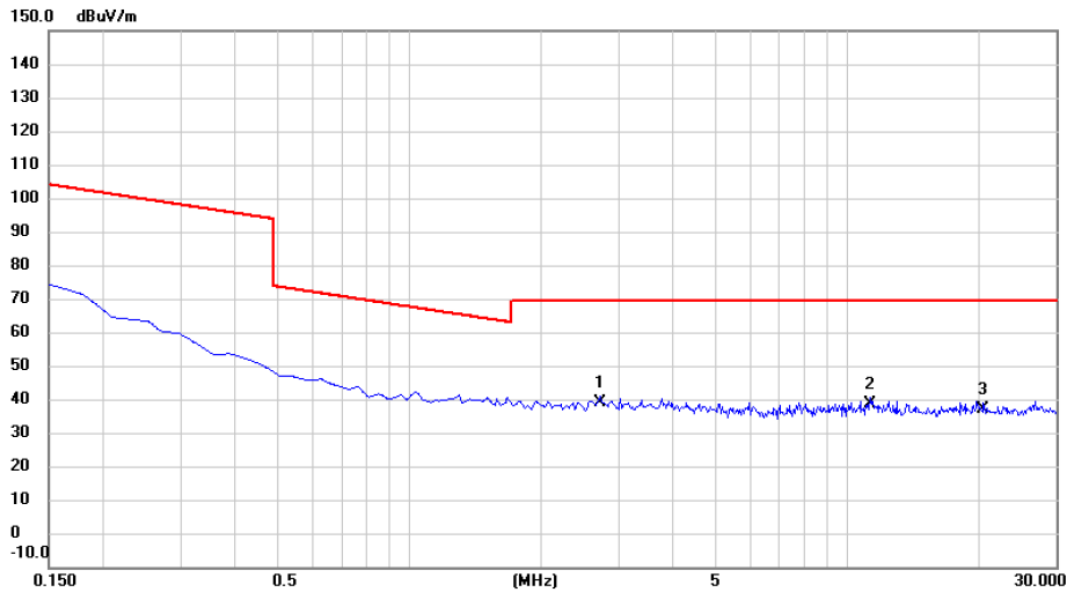


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0307	47.56	21.10	68.66	117.86	-49.20	AVG	
2	0.0523	43.03	21.21	64.24	113.23	-48.99	AVG	
3 *	0.0912	39.09	21.33	60.42	108.41	-47.99	QP	

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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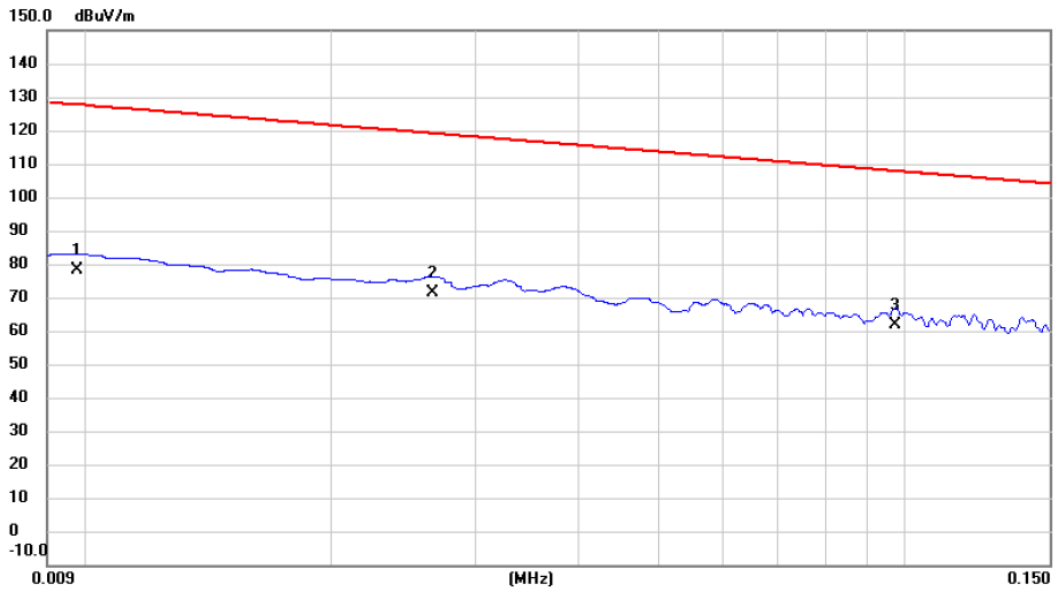
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2.7320	17.84	21.11	38.95	69.54	-30.59	QP	
2		11.2691	17.44	21.16	38.60	69.54	-30.94	QP	
3		20.4780	15.62	21.36	36.98	69.54	-32.56	QP	

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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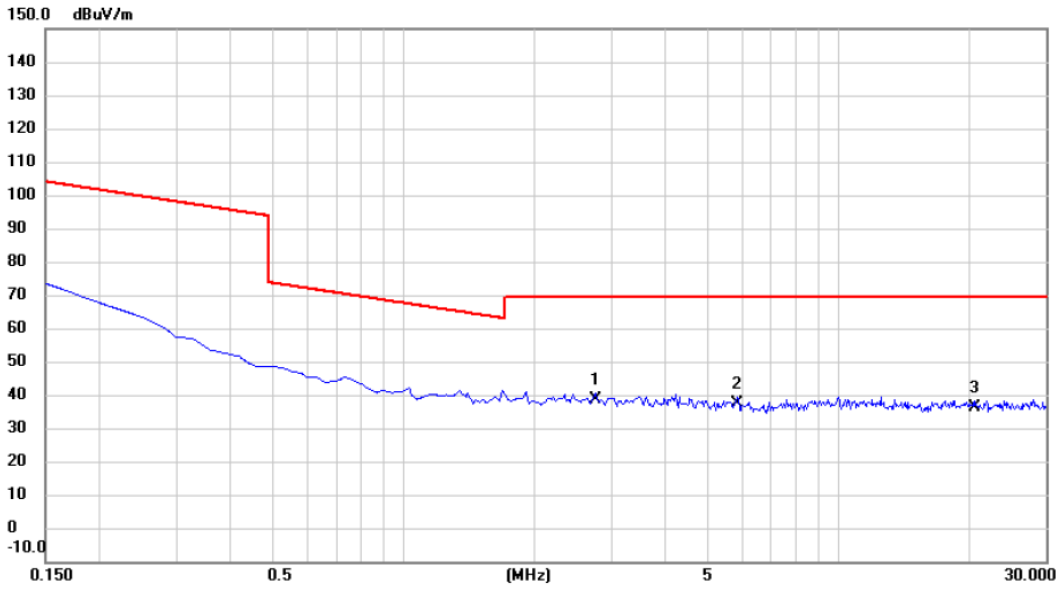


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0098	57.55	20.48	78.03	127.78	-49.75	AVG	
2		0.0266	50.40	21.00	71.40	119.11	-47.71	AVG	
3	*	0.0974	40.61	21.33	61.94	107.83	-45.89	QP	

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	*	2.7618	17.33	21.11	38.44	69.54	-31.10	QP	
2		5.8662	16.15	21.16	37.31	69.54	-32.23	QP	
3		20.6121	14.76	21.38	36.14	69.54	-33.40	QP	

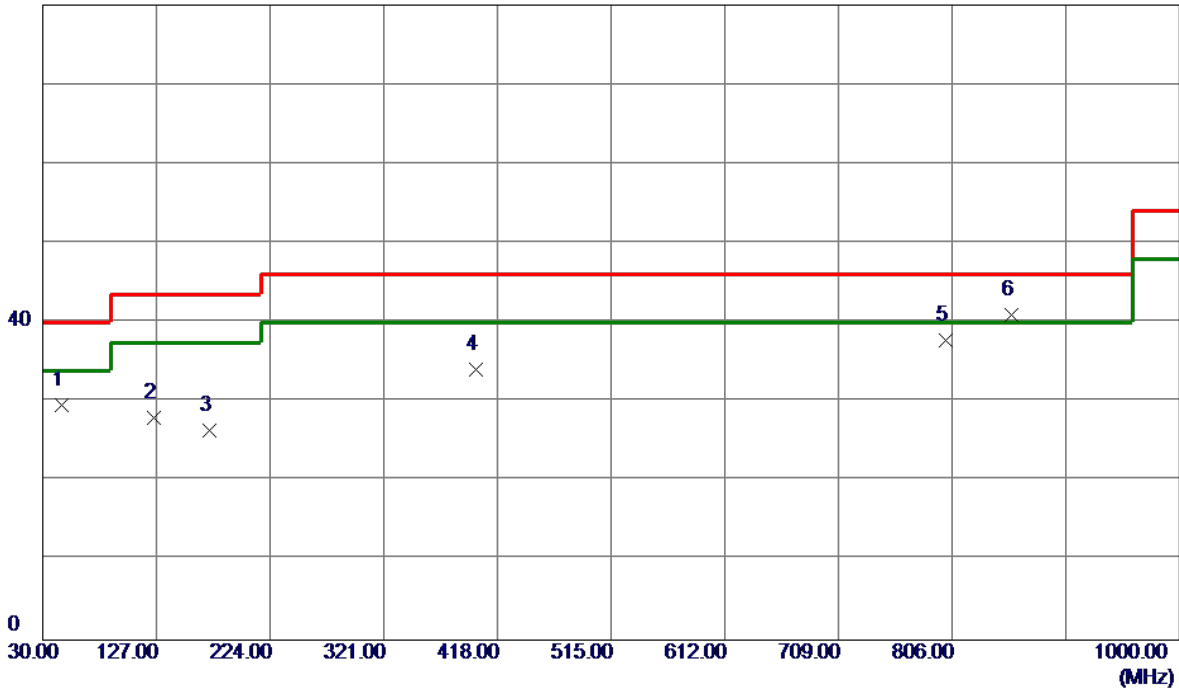
REMARKS:

- (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



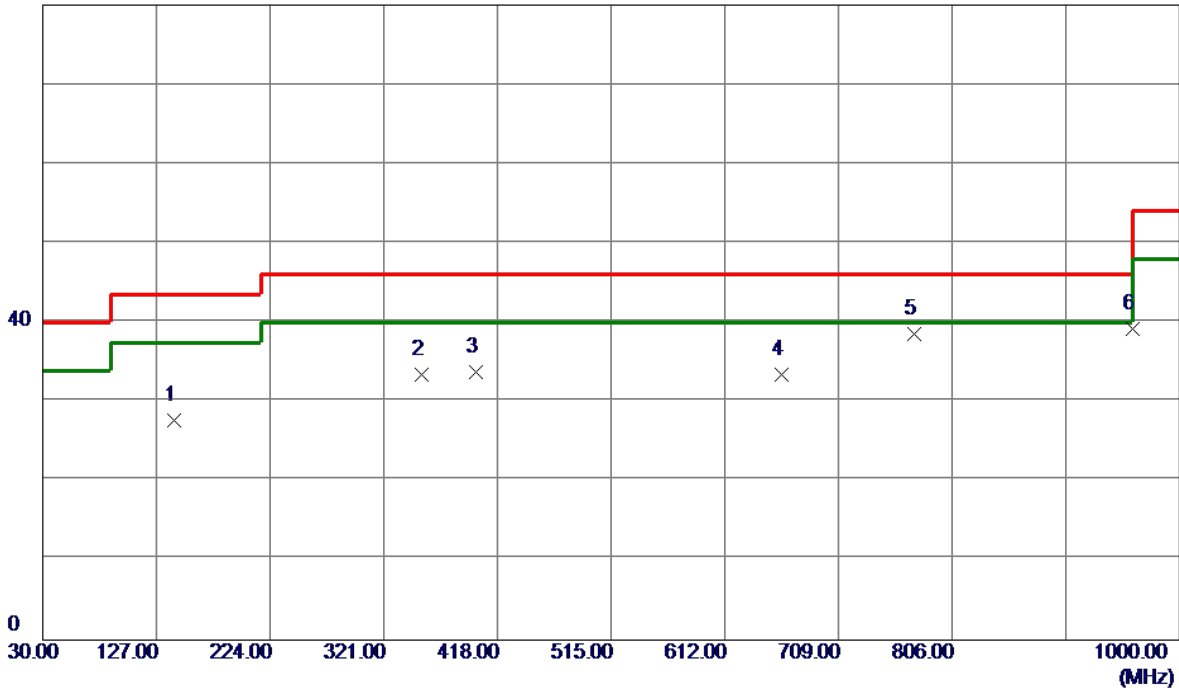
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	46.0050	40.96	-11.34	29.62	40.00	-10.38	Peak	
2	125.0600	40.77	-12.84	27.93	43.50	-15.57	Peak	
3	172.1050	37.92	-11.52	26.40	43.50	-17.10	Peak	
4	400.0550	42.18	-8.14	34.04	46.00	-11.96	Peak	
5	800.6650	39.14	-1.42	37.72	46.00	-8.28	Peak	
6 *	856.9250	41.48	-0.47	41.01	46.00	-4.99	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



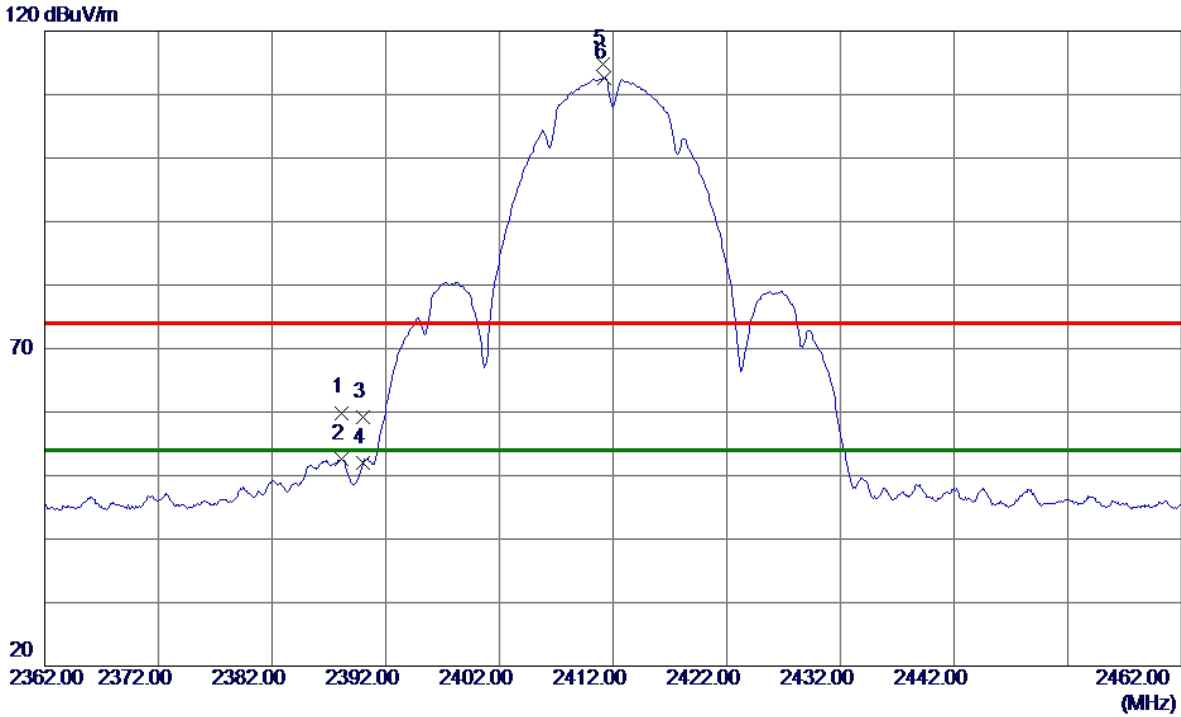
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	142.5200	39.34	-11.62	27.72	43.50	-15.78	Peak	
2	353.4950	42.94	-9.51	33.43	46.00	-12.57	Peak	
3	400.0550	41.84	-8.14	33.70	46.00	-12.30	Peak	
4	660.0150	36.32	-2.88	33.44	46.00	-12.56	Peak	
5	773.5050	39.90	-1.33	38.57	46.00	-7.43	Peak	
6 *	959.7450	38.74	0.43	39.17	46.00	-6.83	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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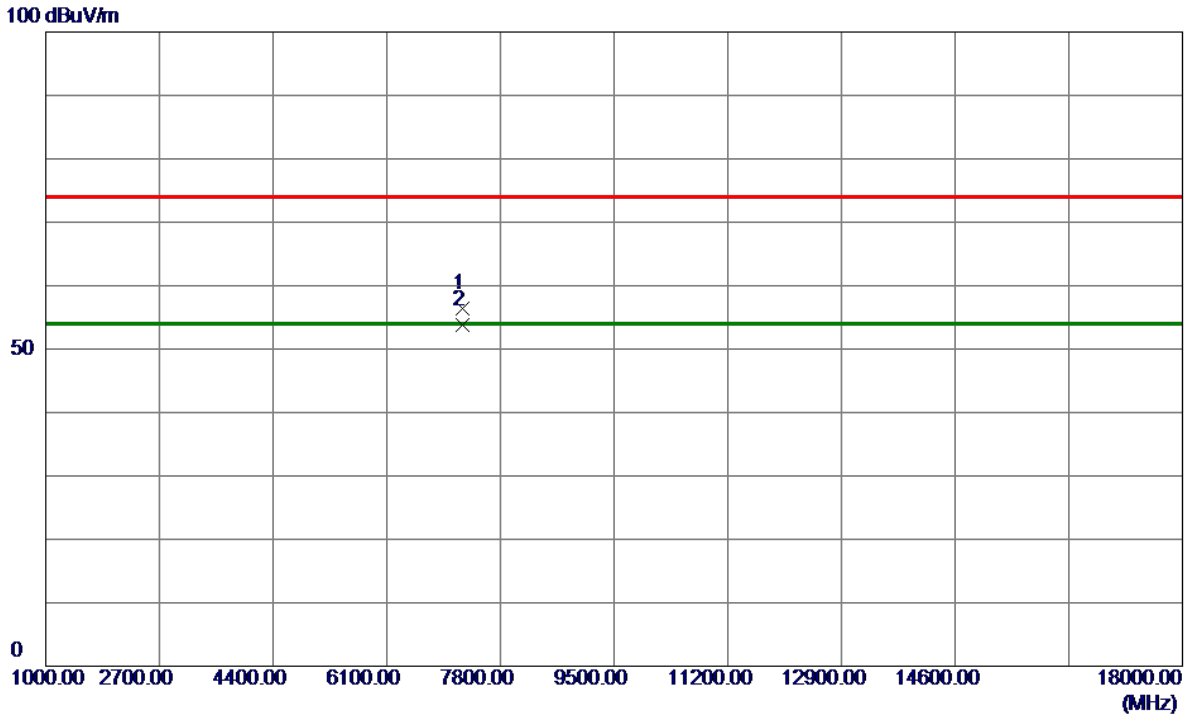


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.1000	53.90	6.00	59.90	74.00	-14.10	Peak	
2	2388.1000	46.59	6.00	52.59	54.00	-1.41	AVG	
3	2390.0000	53.13	6.00	59.13	74.00	-14.87	Peak	
4	2390.0000	45.96	6.00	51.96	54.00	-2.04	AVG	
5	2411.1500	108.81	6.00	114.81	74.00	40.81	Peak	No Limit
6 *	2411.2500	106.62	6.00	112.62	54.00	58.62	AVG	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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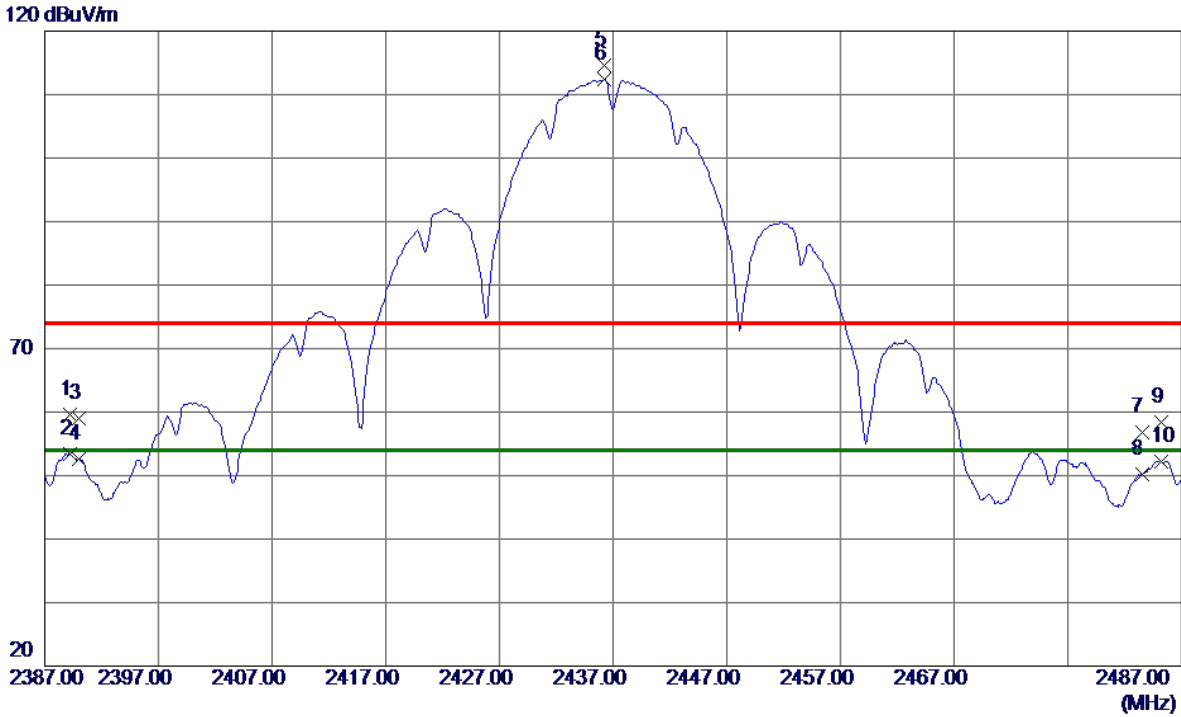


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7236.8000	50.49	5.91	56.40	74.00	-17.60	Peak	
2 *	7236.8250	47.98	5.91	53.89	54.00	-0.11	AVG	

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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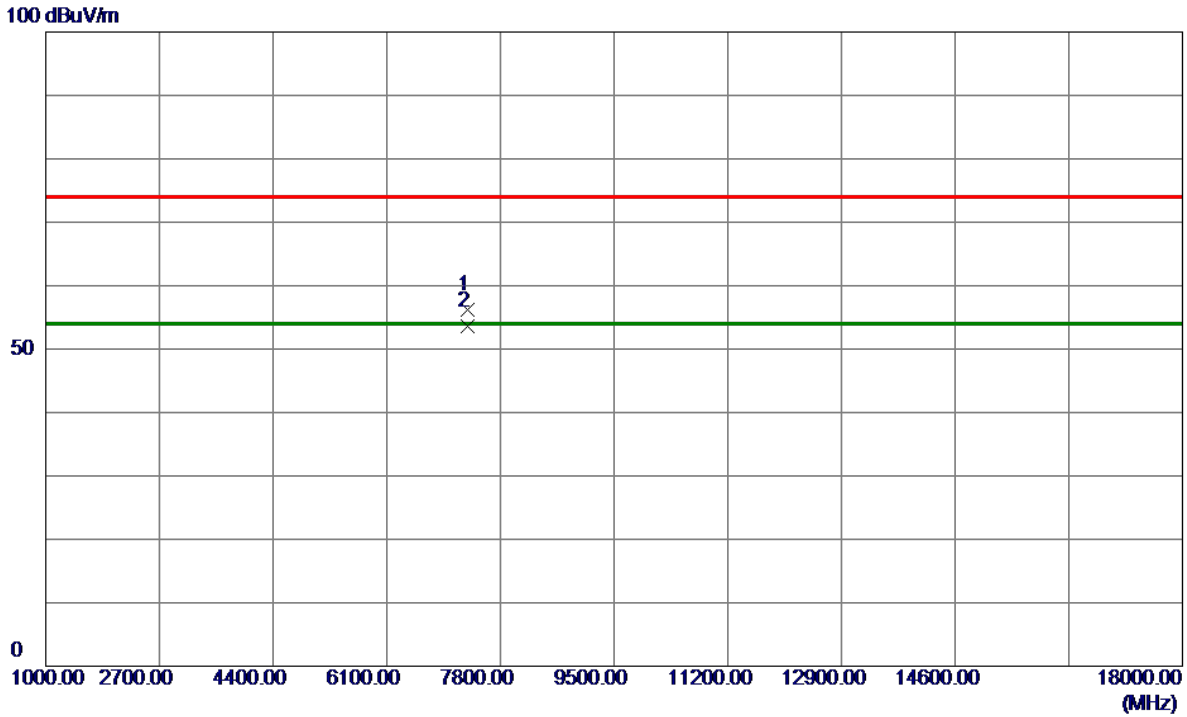


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.2000	53.56	6.00	59.56	74.00	-14.44	Peak	
2	2389.2000	47.49	6.00	53.49	54.00	-0.51	AVG	
3	2390.0000	52.92	6.00	58.92	74.00	-15.08	Peak	
4	2390.0000	46.66	6.00	52.66	54.00	-1.34	AVG	
5	2436.2000	108.54	6.00	114.54	74.00	40.54	Peak	No Limit
6 *	2436.2500	106.33	6.00	112.33	54.00	58.33	AVG	No Limit
7	2483.5000	50.73	6.00	56.73	74.00	-17.27	Peak	
8	2483.5000	44.26	6.00	50.26	54.00	-3.74	AVG	
9	2485.2000	52.41	6.00	58.41	74.00	-15.59	Peak	
10	2485.2000	46.28	6.00	52.28	54.00	-1.72	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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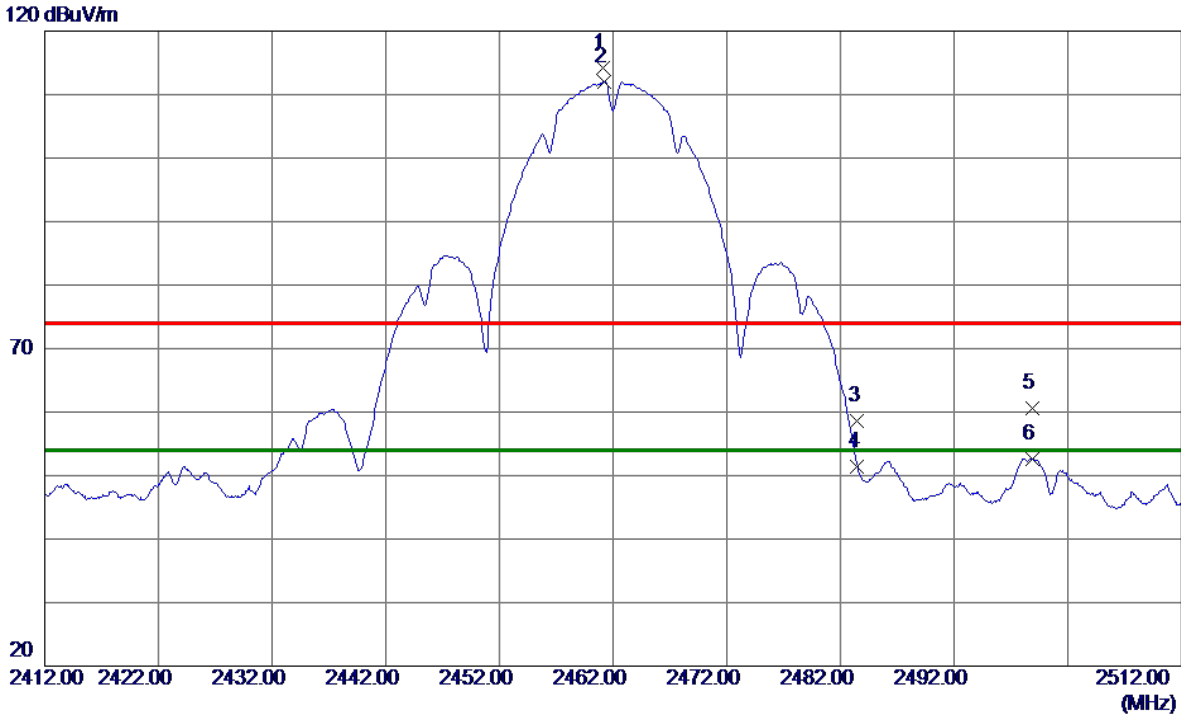


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7310.2000	50.28	5.93	56.21	74.00	-17.79	Peak	
2 *	7310.2250	47.67	5.93	53.60	54.00	-0.40	AVG	

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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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2461.1500	108.21	6.00	114.21	74.00	40.21	Peak	No Limit
2 *	2461.2500	106.01	6.00	112.01	54.00	58.01	AVG	No Limit
3	2483.5000	52.69	6.00	58.69	74.00	-15.31	Peak	
4	2483.5000	45.48	6.00	51.48	54.00	-2.52	AVG	
5	2498.8500	54.66	6.00	60.66	74.00	-13.34	Peak	
6	2498.8500	46.63	6.00	52.63	54.00	-1.37	AVG	

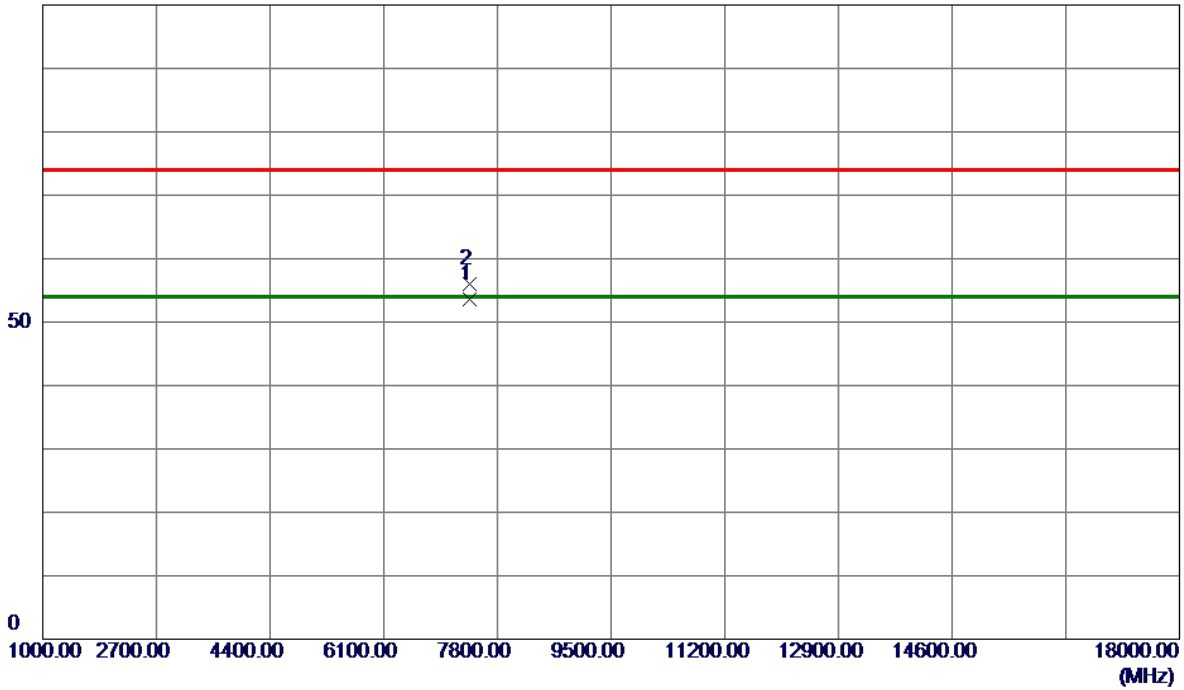
REMARKS:

(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

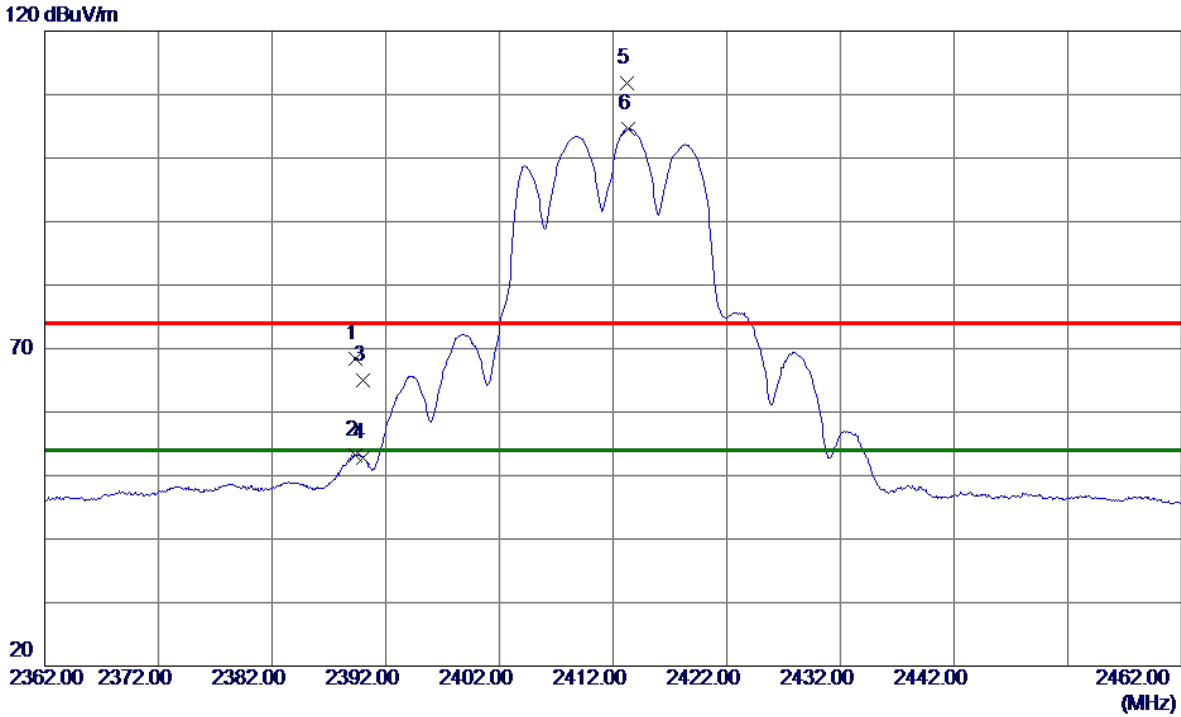


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7386.8500	47.56	5.95	53.51	54.00	-0.49	AVG	
2	7386.9250	50.00	5.95	55.95	74.00	-18.05	Peak	

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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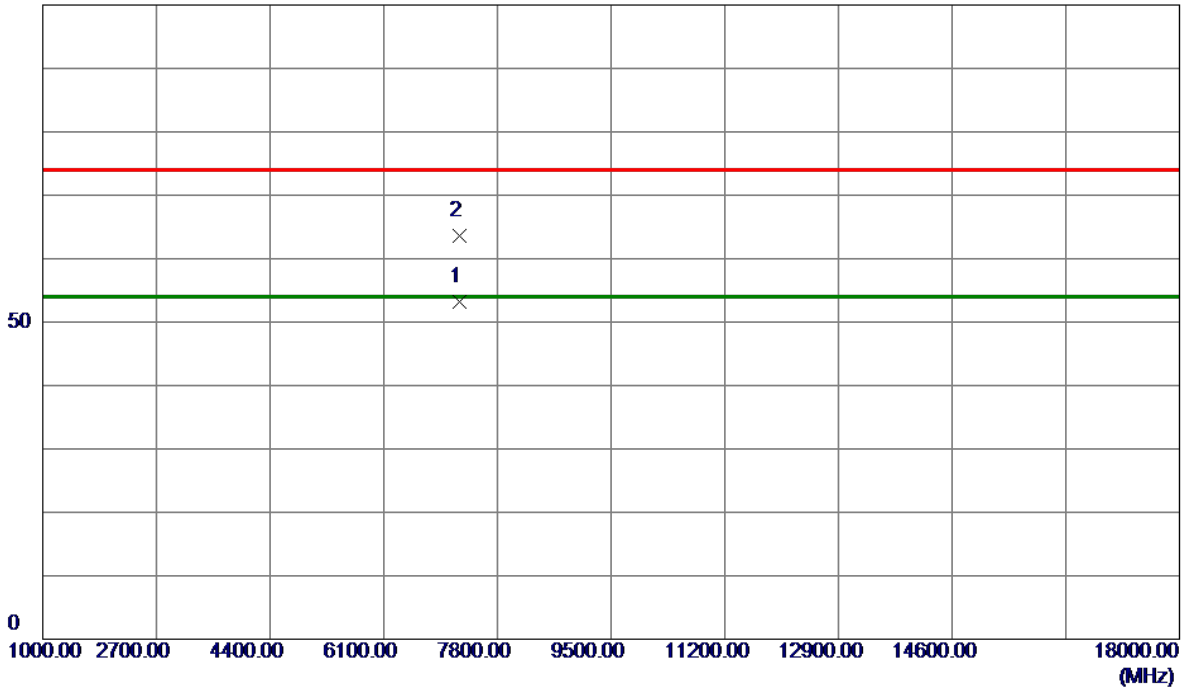
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.3000	62.45	6.00	68.45	74.00	-5.55	Peak	
2	2389.3000	47.29	6.00	53.29	54.00	-0.71	AVG	
3	2390.0000	58.97	6.00	64.97	74.00	-9.03	Peak	
4	2390.0000	46.88	6.00	52.88	54.00	-1.12	AVG	
5	2413.2000	105.78	6.00	111.78	74.00	37.78	Peak	No Limit
6 *	2413.3500	98.55	6.00	104.55	54.00	50.55	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

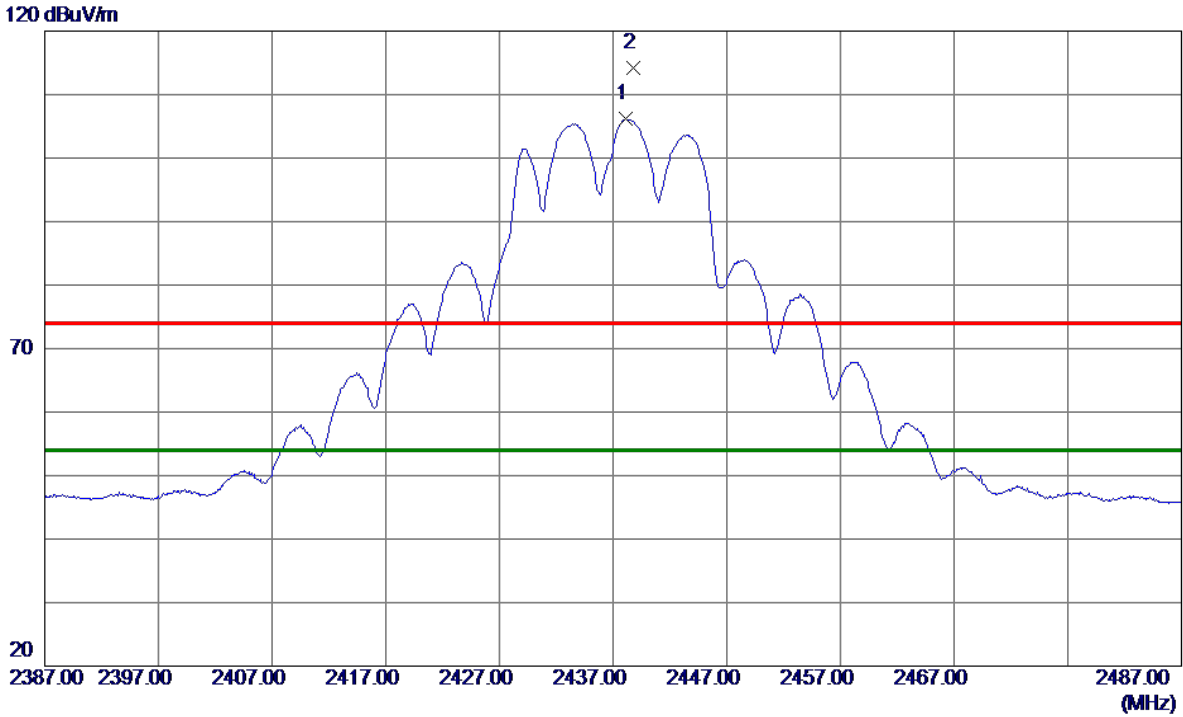


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7235.8250	47.37	5.91	53.28	54.00	-0.72	AVG	
2	7240.5250	57.60	5.91	63.51	74.00	-10.49	Peak	

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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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2438.1500	100.20	6.00	106.20	54.00	52.20	AVG	No Limit
2	2438.7500	108.11	6.00	114.11	74.00	40.11	Peak	No Limit

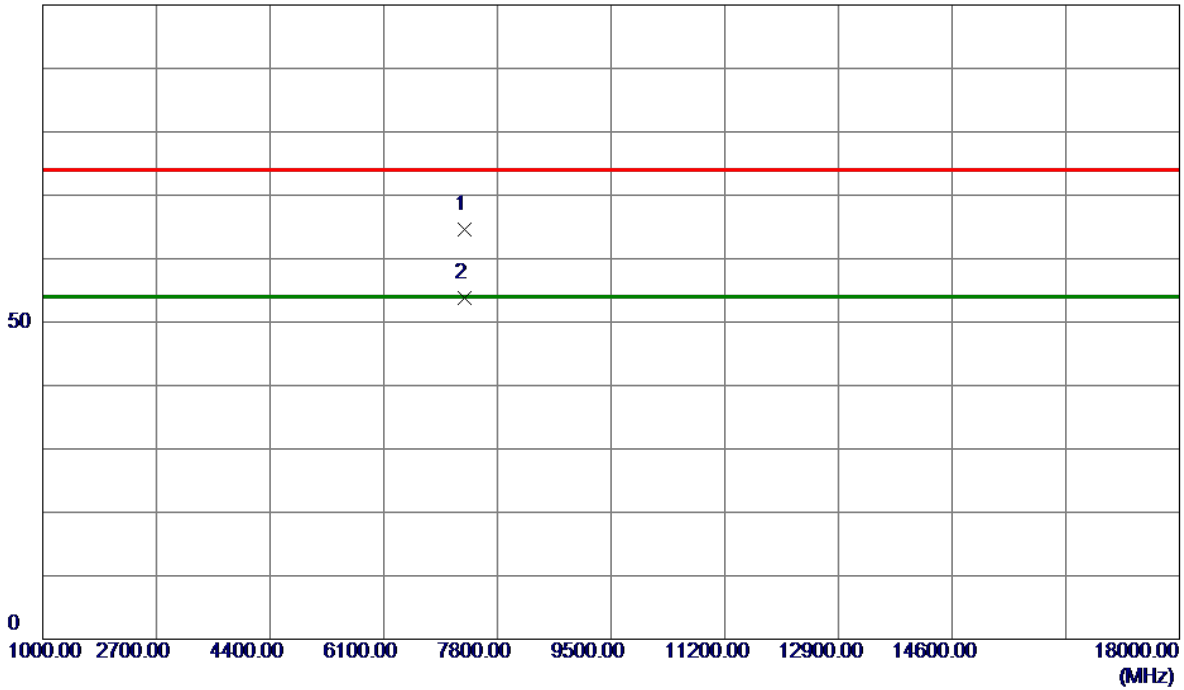
REMARKS:

(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

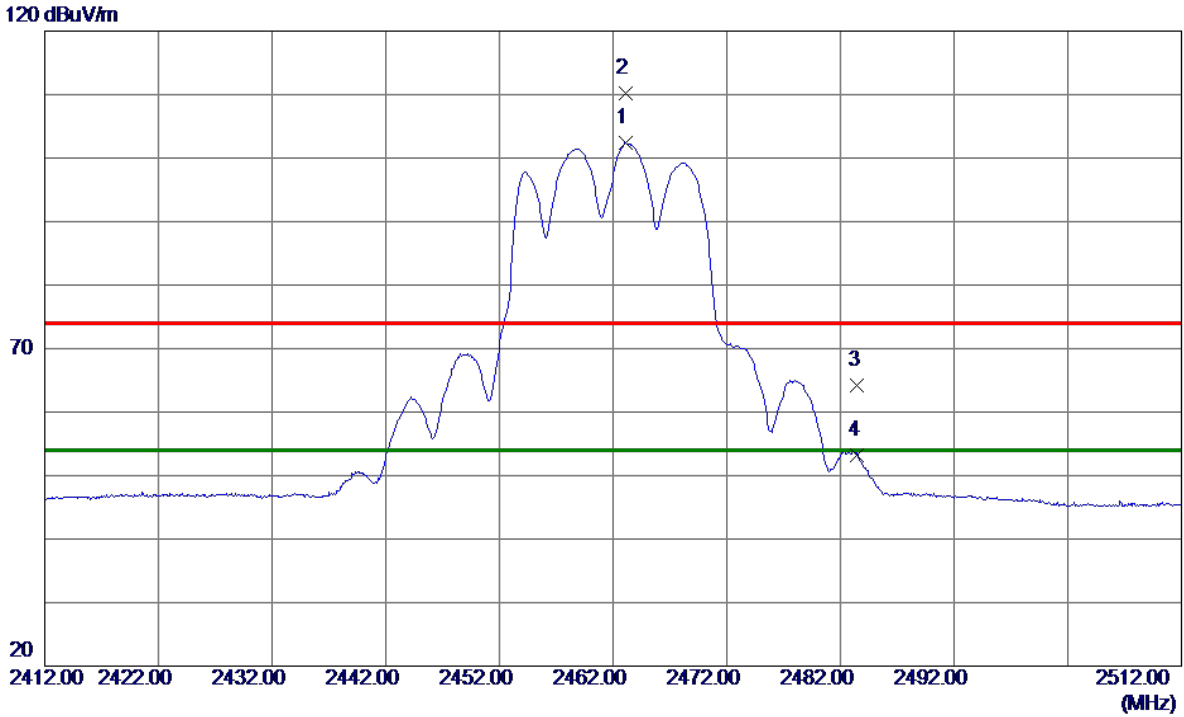


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7305.9000	58.63	5.93	64.56	74.00	-9.44	Peak	
2 *	7311.5500	47.95	5.93	53.88	54.00	-0.12	AVG	

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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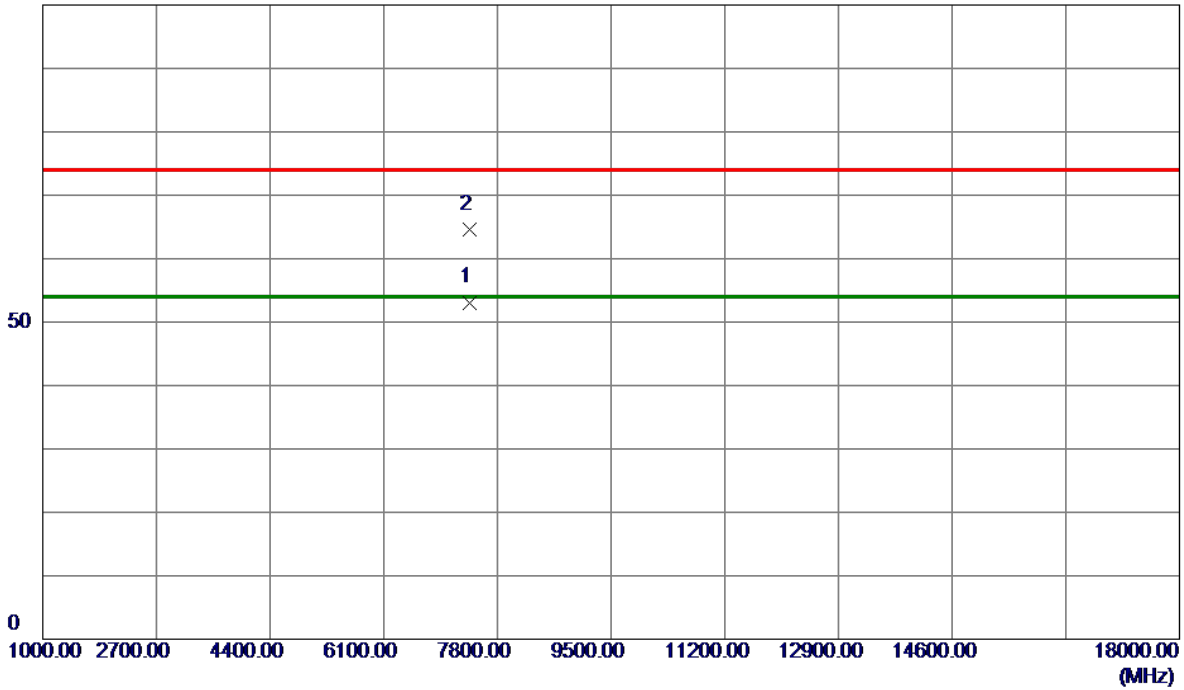
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2463.1000	96.37	6.00	102.37	54.00	48.37	AVG	No Limit
2	2463.1500	104.18	6.00	110.18	74.00	36.18	Peak	No Limit
3	2483.5000	58.16	6.00	64.16	74.00	-9.84	Peak	
4	2483.5000	47.18	6.00	53.18	54.00	-0.82	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

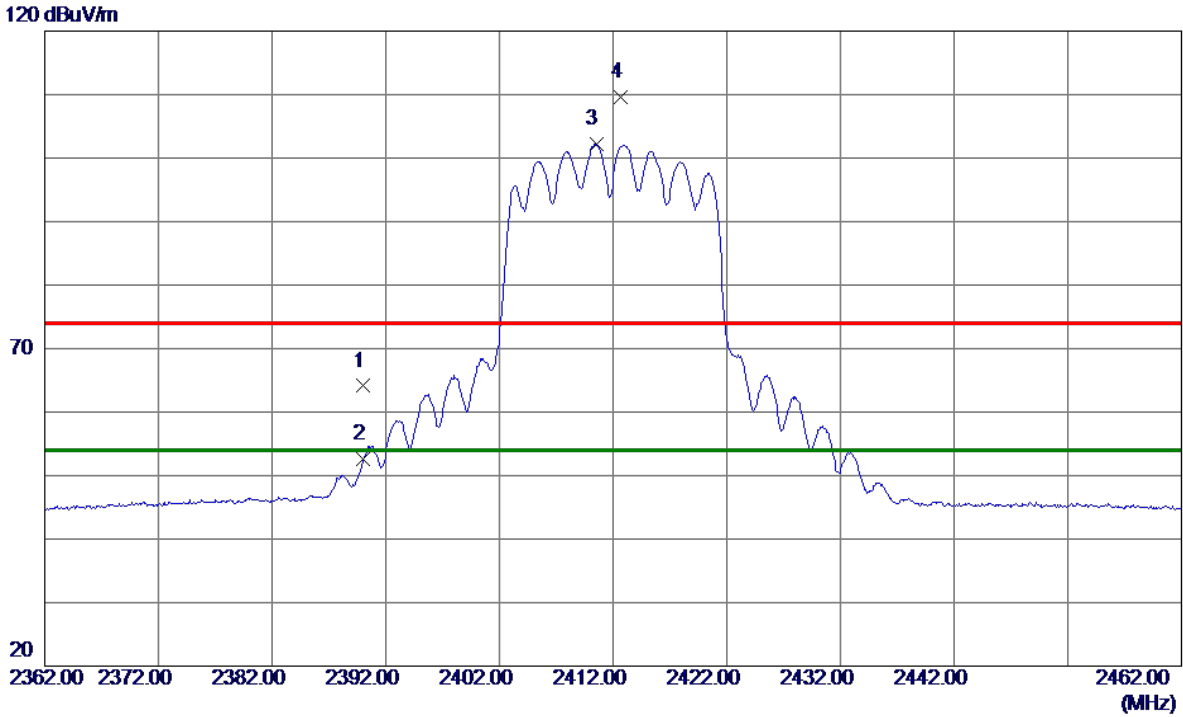


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7387.0000	47.15	5.95	53.10	54.00	-0.90	AVG	
2	7391.1500	58.70	5.95	64.65	74.00	-9.35	Peak	

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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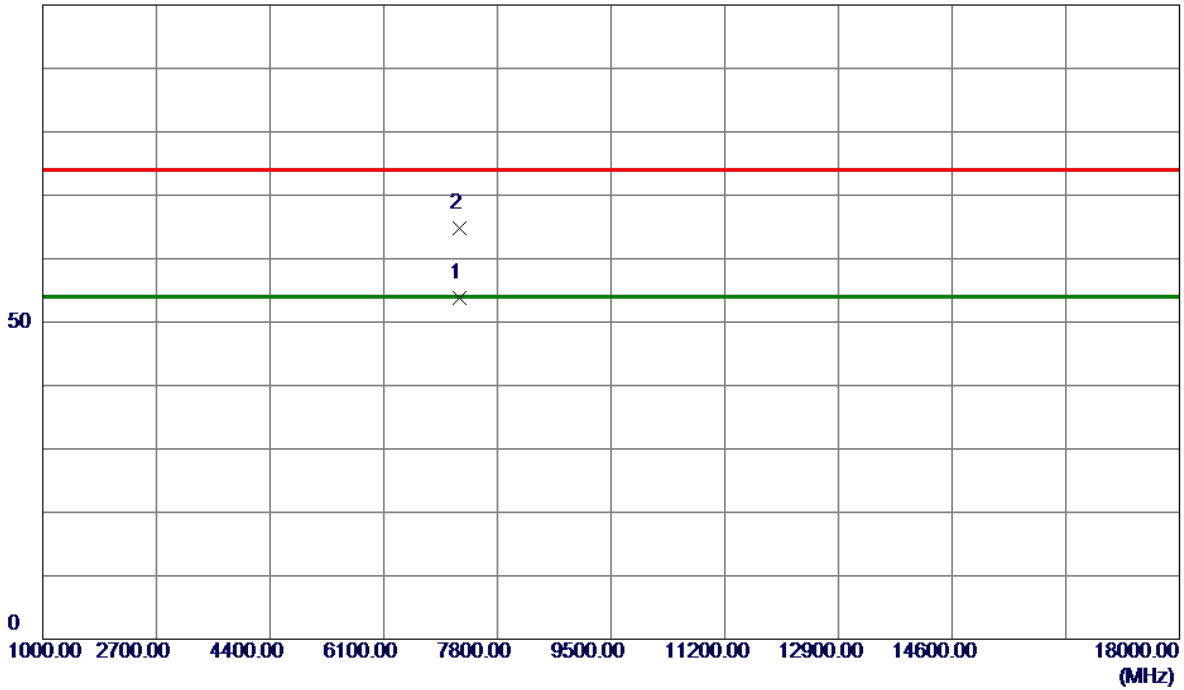
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	58.10	6.00	64.10	74.00	-9.90	Peak	
2	2390.0000	46.62	6.00	52.62	54.00	-1.38	AVG	
3 *	2410.5000	96.23	6.00	102.23	54.00	48.23	AVG	No Limit
4	2412.7000	103.65	6.00	109.65	74.00	35.65	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

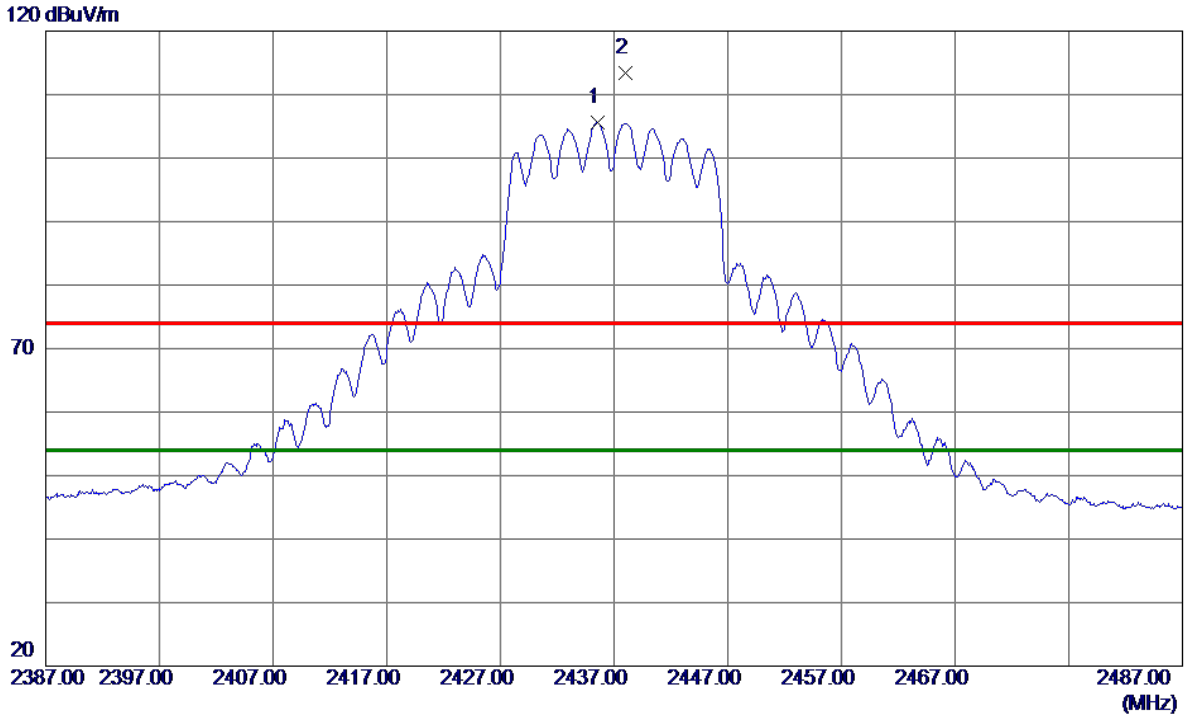


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7236.0500	47.88	5.91	53.79	54.00	-0.21	AVG	
2	7236.7500	58.88	5.91	64.79	74.00	-9.21	Peak	

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.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2435.5500	99.66	6.00	105.66	54.00	51.66	AVG	No Limit
2	2437.9500	107.45	6.00	113.45	74.00	39.45	Peak	No Limit

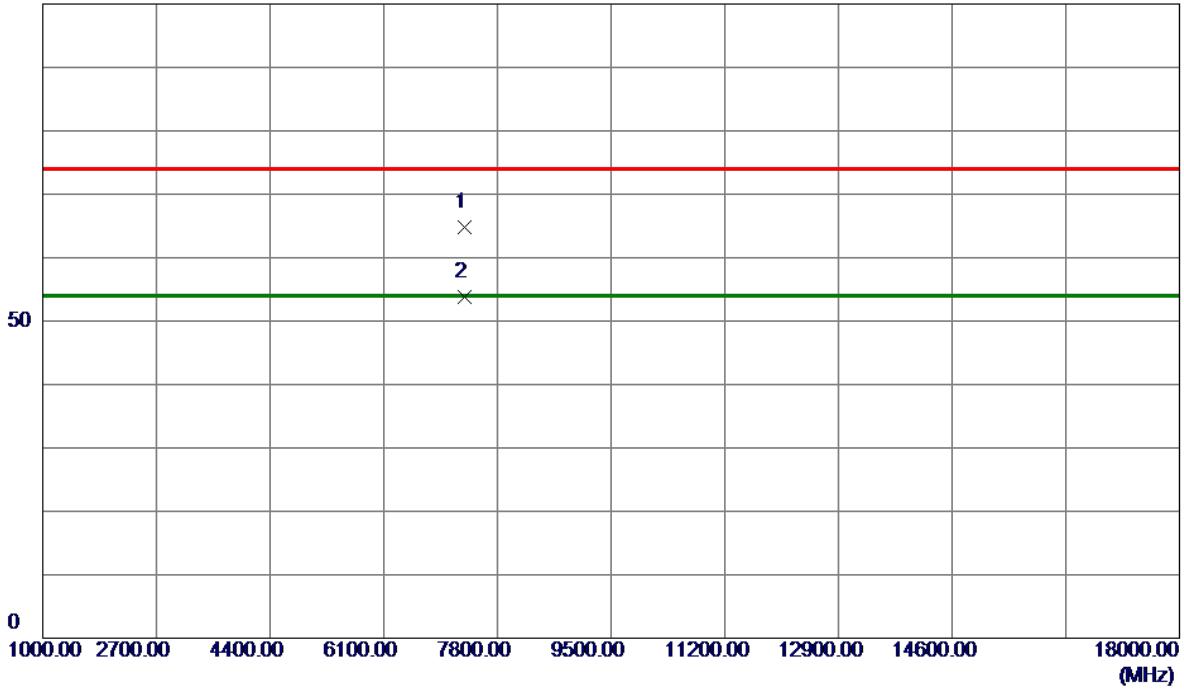
REMARKS:

(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

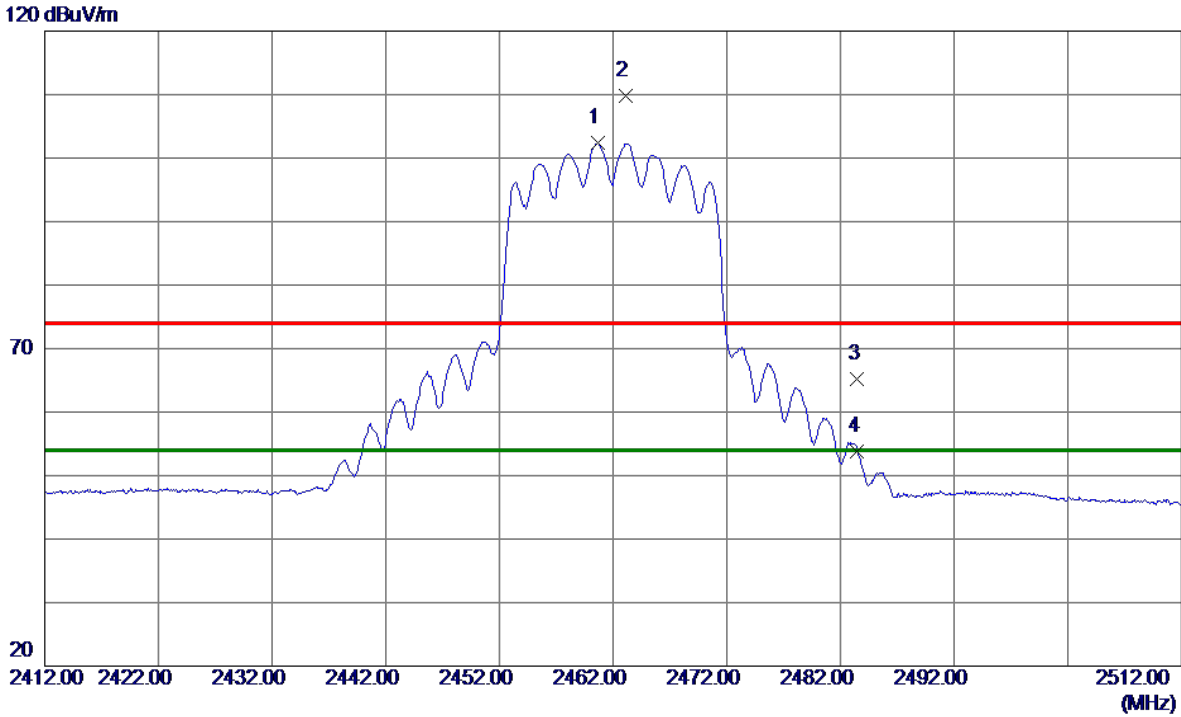


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7310.8500	58.84	5.93	64.77	74.00	-9.23	Peak	
2 *	7311.1000	47.95	5.93	53.88	54.00	-0.12	AVG	

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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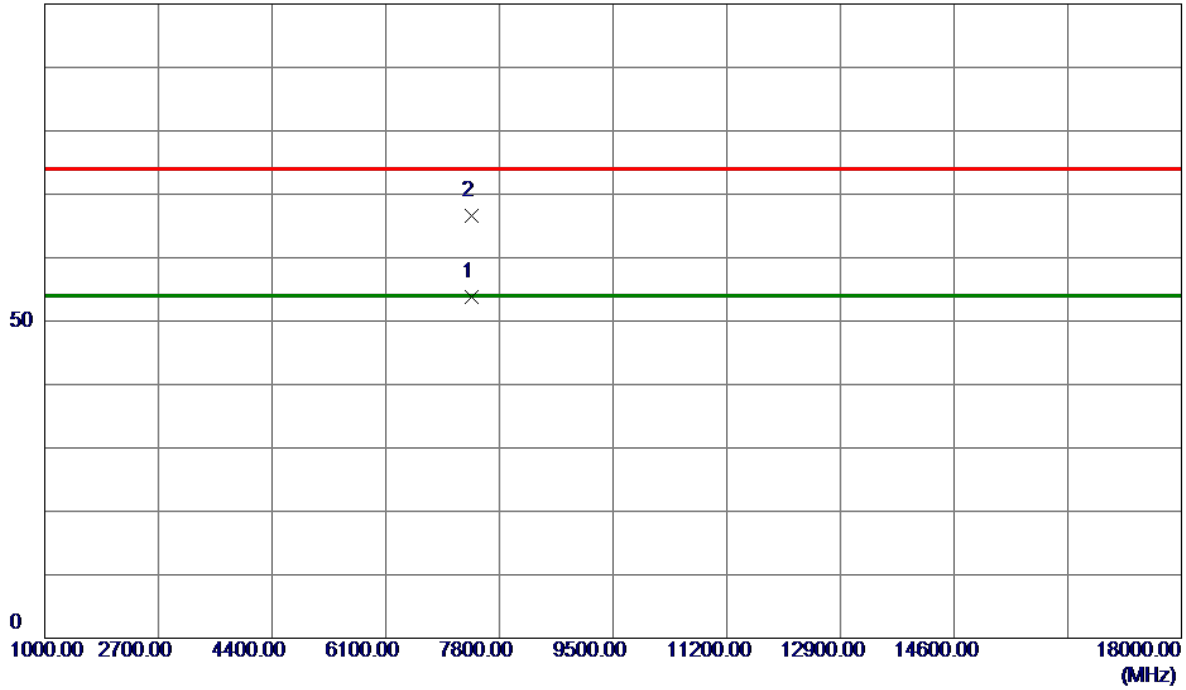
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2460.6500	96.35	6.00	102.35	54.00	48.35	AVG	No Limit
2	2463.1000	103.82	6.00	109.82	74.00	35.82	Peak	No Limit
3	2483.5000	59.19	6.00	65.19	74.00	-8.81	Peak	
4	2483.5000	47.83	6.00	53.83	54.00	-0.17	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

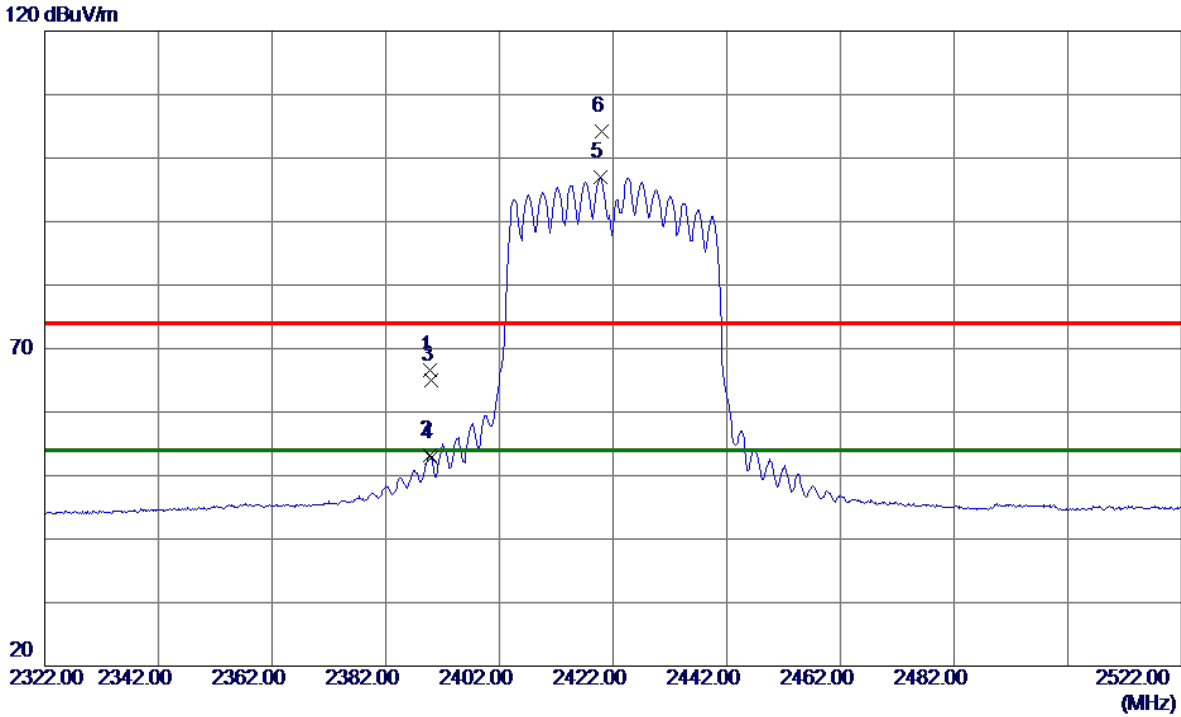


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7384.9750	47.93	5.94	53.87	54.00	-0.13	AVG	
2	7387.5750	60.67	5.95	66.62	74.00	-7.38	Peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.7000	60.58	6.00	66.58	74.00	-7.42	Peak	
2	2389.7000	47.20	6.00	53.20	54.00	-0.80	AVG	
3	2390.0000	58.94	6.00	64.94	74.00	-9.06	Peak	
4	2390.0000	46.73	6.00	52.73	54.00	-1.27	AVG	
5 *	2419.8000	90.93	6.00	96.93	54.00	42.93	AVG	No Limit
6	2420.0000	98.27	6.00	104.27	74.00	30.27	Peak	No Limit

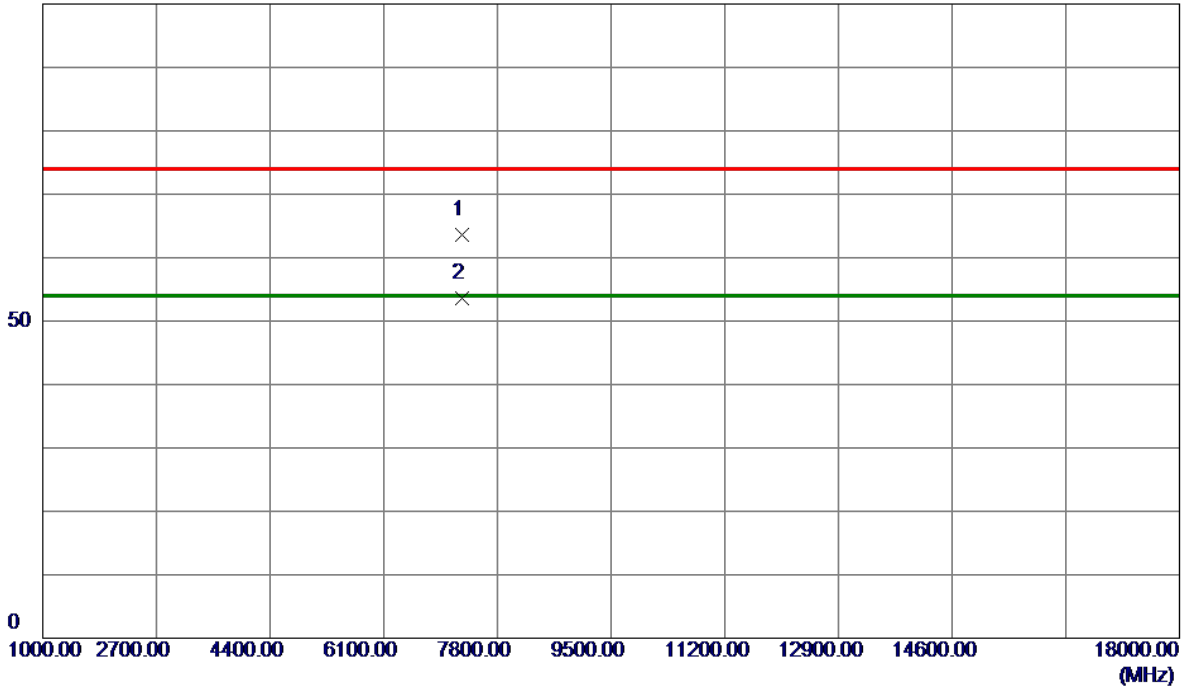
REMARKS:

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

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical
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100 dBuV/m

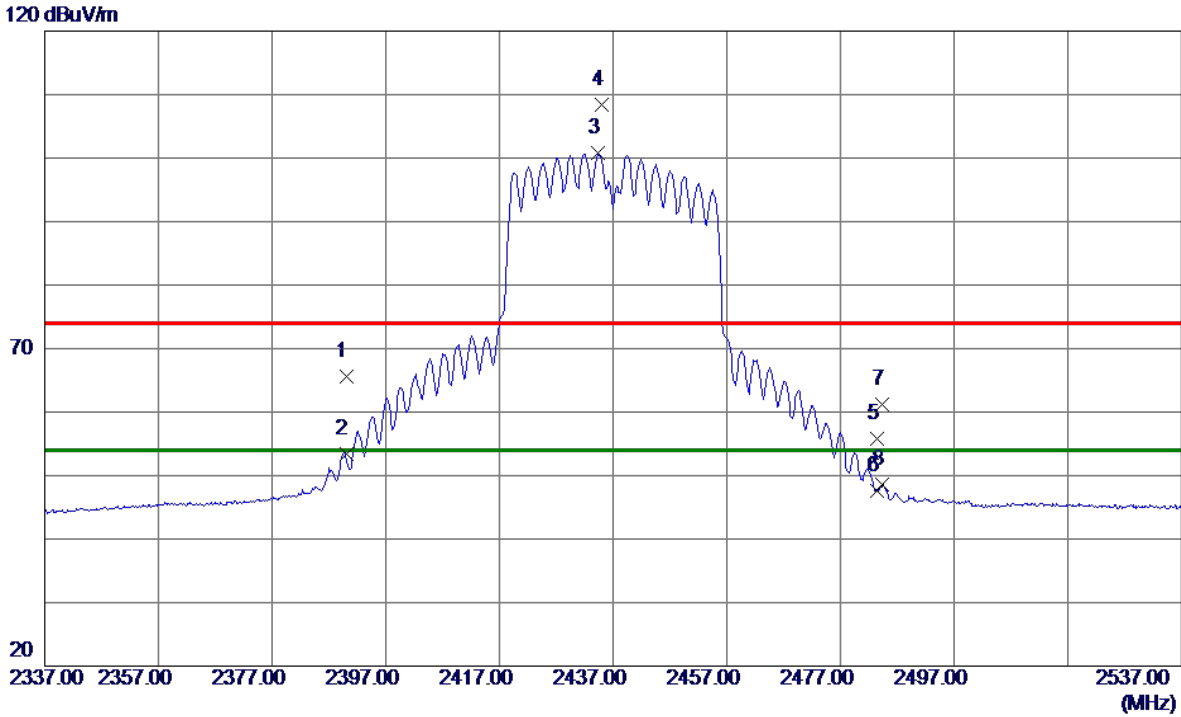


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7272.4000	57.75	5.92	63.67	74.00	-10.33	Peak	
2 *	7274.9000	47.62	5.92	53.54	54.00	-0.46	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical
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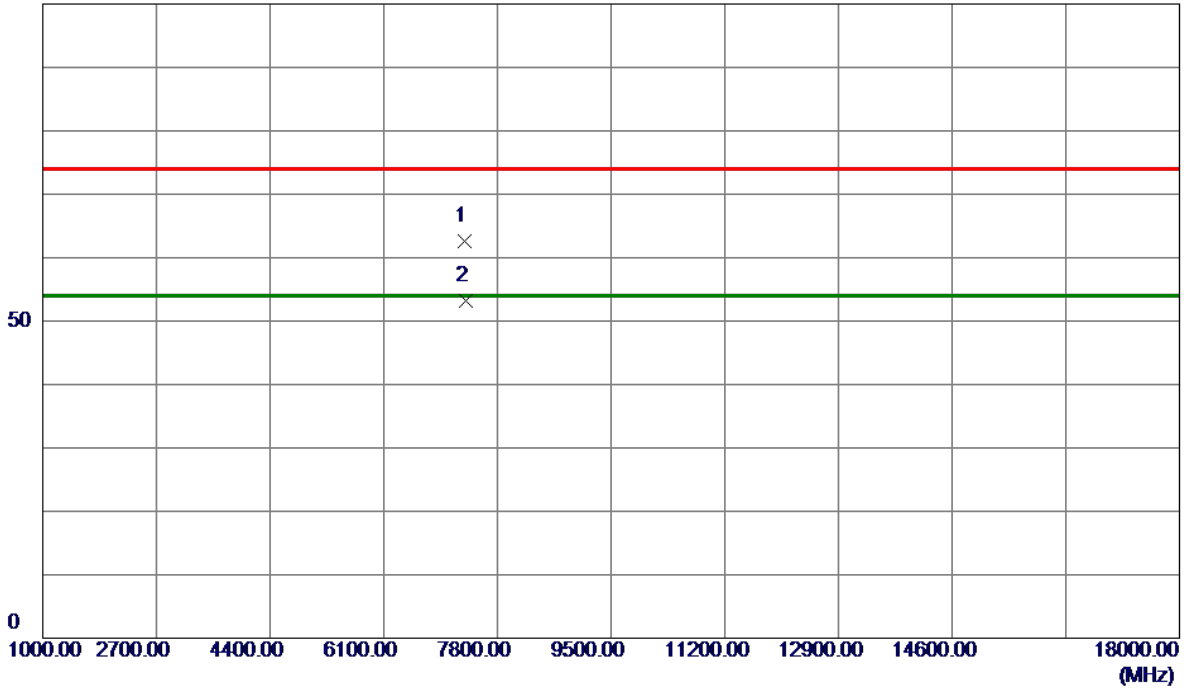
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	59.66	6.00	65.66	74.00	-8.34	Peak	
2	2390.0000	47.48	6.00	53.48	54.00	-0.52	AVG	
3 *	2434.4000	94.86	6.00	100.86	54.00	46.86	AVG	No Limit
4	2435.1000	102.31	6.00	108.31	74.00	34.31	Peak	No Limit
5	2483.5000	49.76	6.00	55.76	74.00	-18.24	Peak	
6	2483.5000	41.59	6.00	47.59	54.00	-6.41	AVG	
7	2484.3000	55.26	6.00	61.26	74.00	-12.74	Peak	
8	2484.3000	42.54	6.00	48.54	54.00	-5.46	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical
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100 dBuV/m

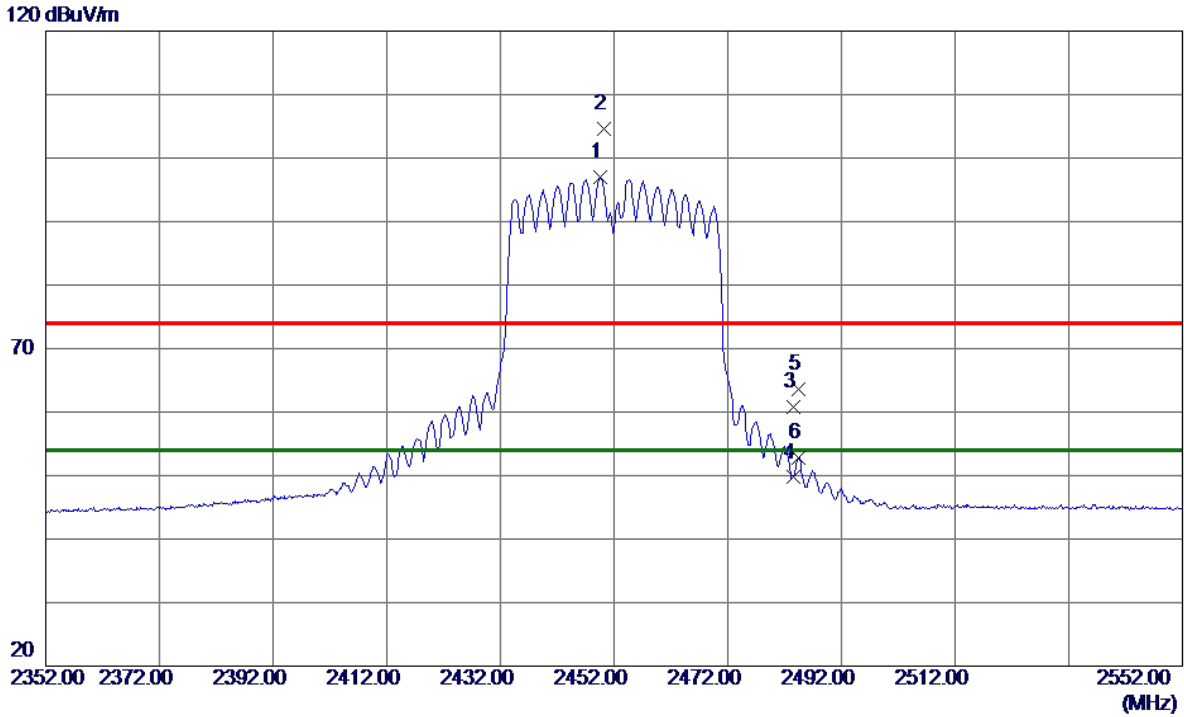


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7317.3500	56.66	5.93	62.59	74.00	-11.41	Peak	
2 *	7319.8000	47.25	5.93	53.18	54.00	-0.82	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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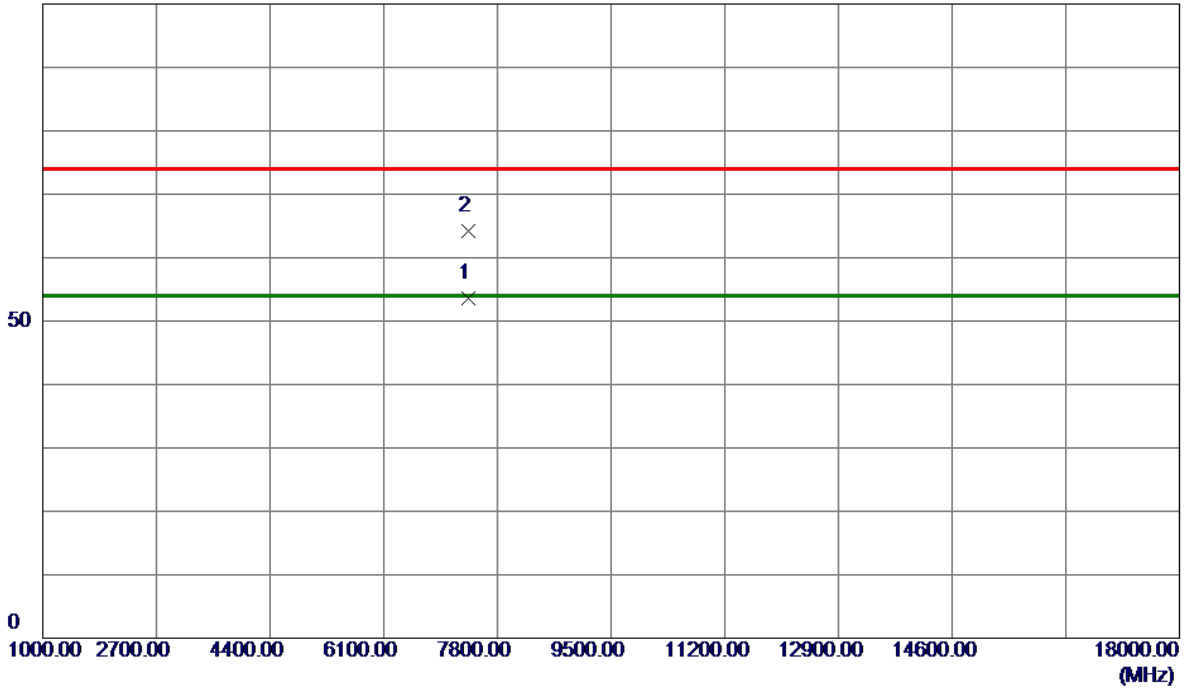
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2449.5000	91.03	6.00	97.03	54.00	43.03	AVG	No Limit
2	2450.2000	98.58	6.00	104.58	74.00	30.58	Peak	No Limit
3	2483.5000	54.80	6.00	60.80	74.00	-13.20	Peak	
4	2483.5000	43.70	6.00	49.70	54.00	-4.30	AVG	
5	2484.5000	57.66	6.00	63.66	74.00	-10.34	Peak	
6	2484.5000	46.89	6.00	52.89	54.00	-1.11	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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100 dBuV/m

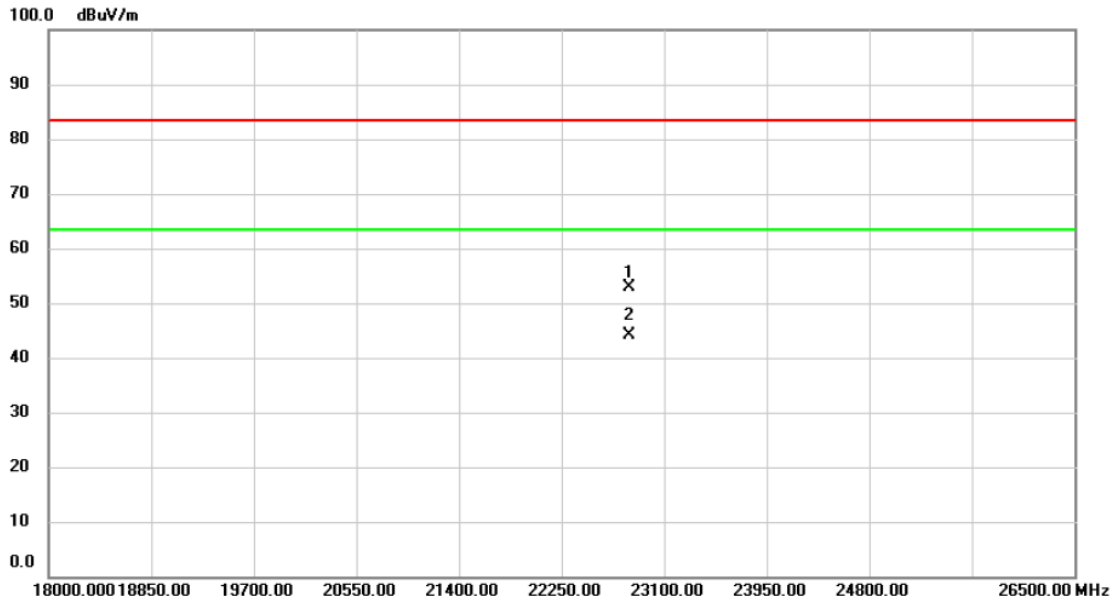


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7367.3500	47.71	5.94	53.65	54.00	-0.35	AVG	
2	7369.9000	58.31	5.94	64.25	74.00	-9.75	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Vertical
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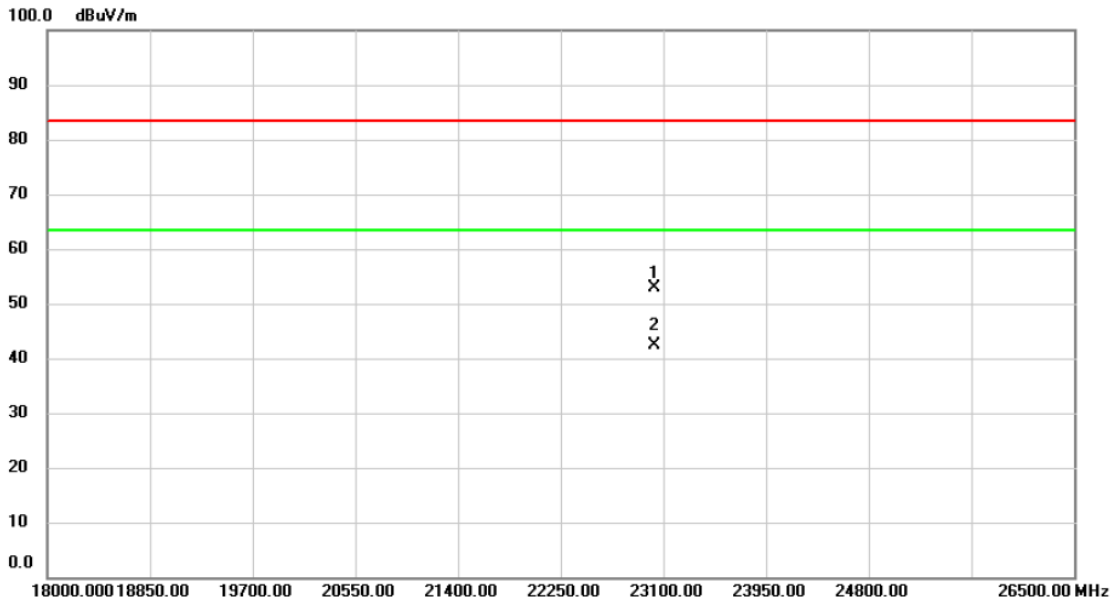


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	22815.25	44.32	8.53	52.85	83.50	-30.65	peak	
2 *	22815.25	35.48	8.53	44.01	63.50	-19.49	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Horizontal
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No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	23023.50	44.42	8.38	52.80	83.50	-30.70	peak	
2 *	23023.50	33.88	8.38	42.26	63.50	-21.24	AVG	

REMARKS:

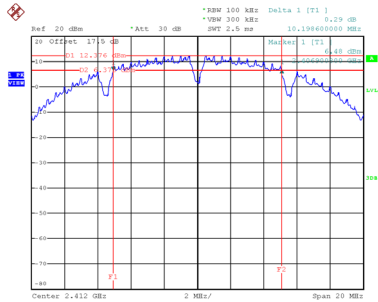
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode TX B Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	10.199	20.160	0.5	Complies
06	2437	11.120	22.160	0.5	Complies
11	2462	11.159	26.400	0.5	Complies

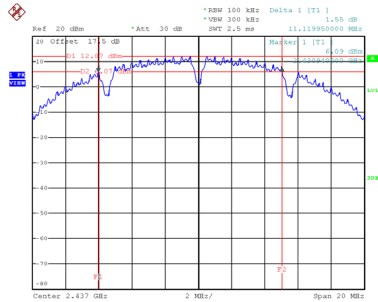
CH01



Date: 19.APR.2024 10:22:26

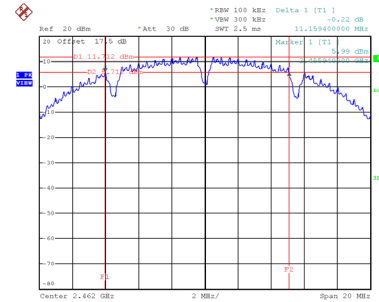
CH06

6 dB Bandwidth



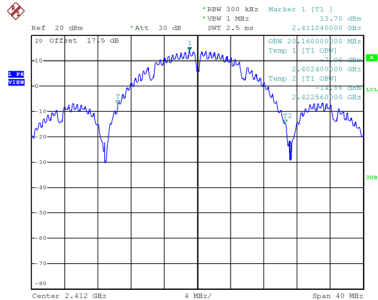
Date: 19.APR.2024 10:23:04

CH11

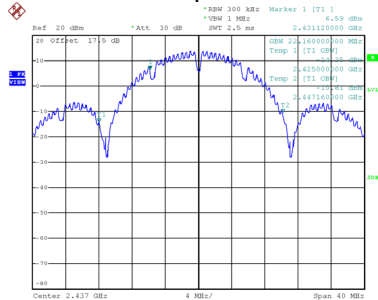


Date: 19.APR.2024 10:24:08

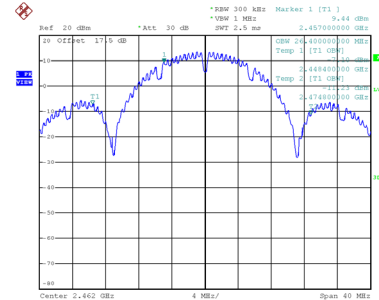
99 % Occupied Bandwidth



Date: 19.APR.2024 10:51:48



Date: 19.APR.2024 10:16:22

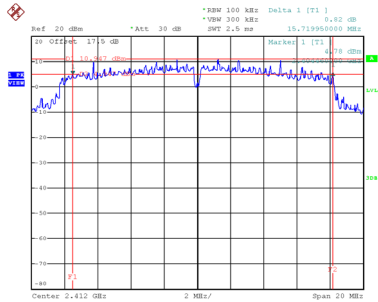


Date: 19.APR.2024 10:16:40

Test Mode TX G Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.720	24.960	0.5	Complies
06	2437	16.360	25.760	0.5	Complies
11	2462	15.750	25.440	0.5	Complies

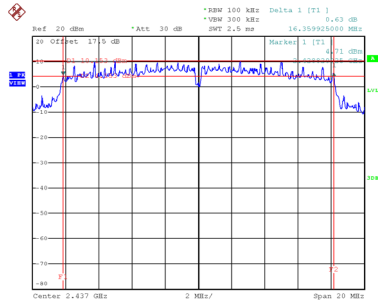
CH01



Date: 19.APR.2024 10:25:09

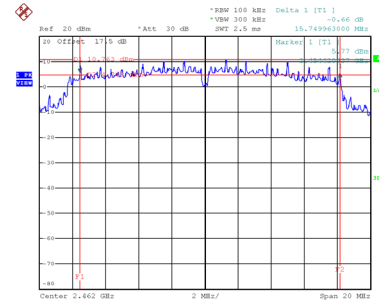
CH06

6 dB Bandwidth



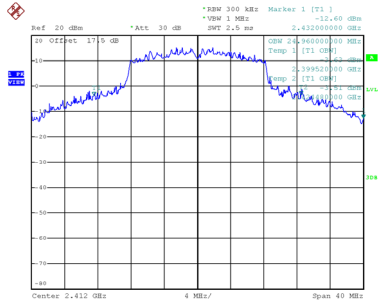
Date: 19.APR.2024 10:27:36

CH11

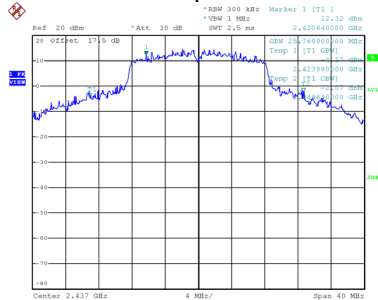


Date: 19.APR.2024 10:28:01

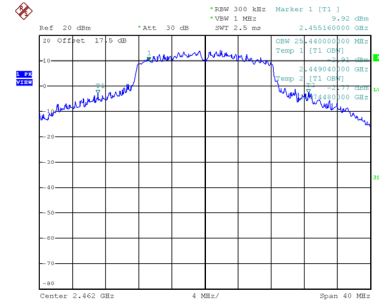
99 % Occupied Bandwidth



Date: 19.APR.2024 10:17:02



Date: 19.APR.2024 10:17:20

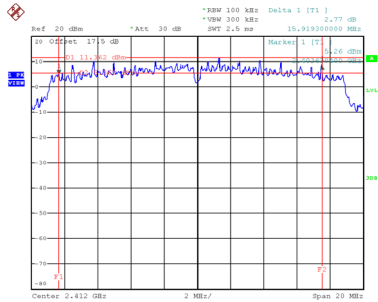


Date: 19.APR.2024 10:17:38

Test Mode	TX N(HT20) Mode
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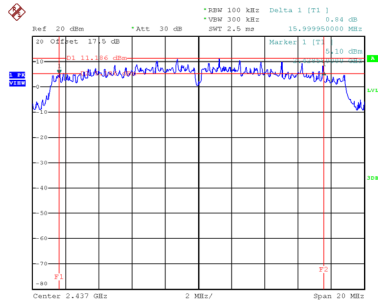
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.919	22.880	0.5	Complies
06	2437	16.000	23.600	0.5	Complies
11	2462	16.000	24.320	0.5	Complies

CH01



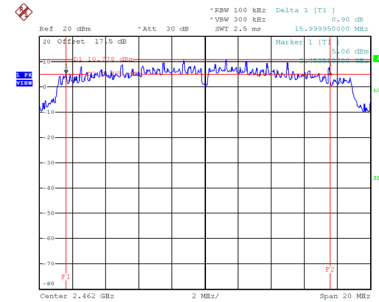
Date: 19.APR.2024 10:28:31

CH06
6 dB Bandwidth



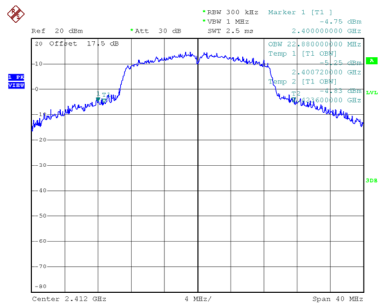
Date: 19.APR.2024 10:29:10

CH11

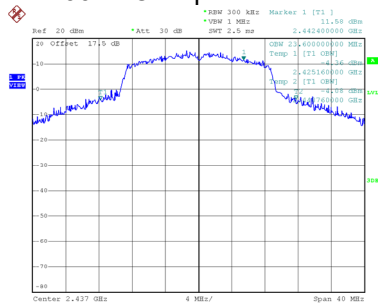


Date: 19.APR.2024 10:30:31

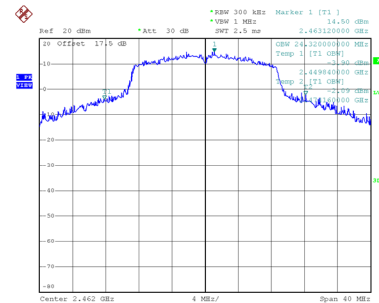
99 % Occupied Bandwidth



Date: 24.APR.2024 09:32:42



Date: 24.APR.2024 10:07:27

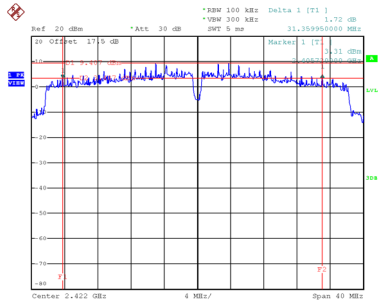


Date: 24.APR.2024 10:06:53

Test Mode	TX N(HT40) Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	31.360	50.400	0.5	Complies
06	2437	31.440	49.760	0.5	Complies
09	2452	30.799	50.400	0.5	Complies

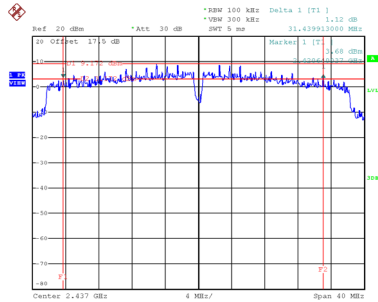
CH03



Date: 19.APR.2024 10:31:04

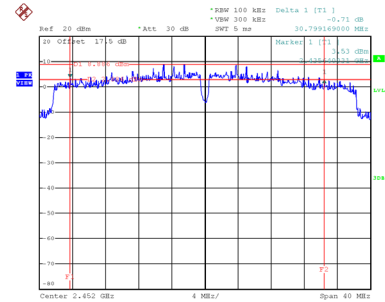
CH06

6 dB Bandwidth



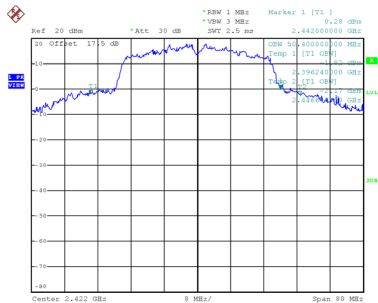
Date: 19.APR.2024 10:31:33

CH09

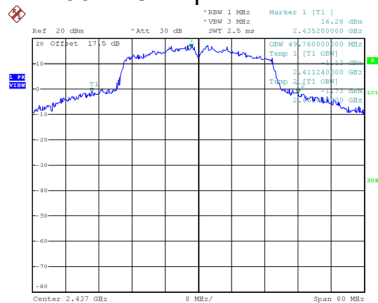


Date: 19.APR.2024 10:32:08

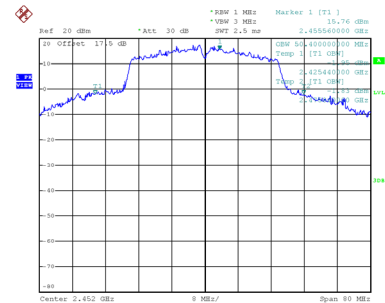
99 % Occupied Bandwidth



Date: 19.APR.2024 10:19:17



Date: 19.APR.2024 10:20:23



Date: 19.APR.2024 10:19:50

APPENDIX F - MAXIMUM OUTPUT POWER

Non Beamforming

Test Mode	TX B Mode_Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.36	0.00	18.36	29.50	0.8913	Complies
06	2437	16.11	0.00	16.11	29.50	0.8913	Complies
11	2462	15.39	0.00	15.39	29.50	0.8913	Complies

Test Mode	TX B Mode_Ant. 2
------------------	------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.82	0.00	17.82	29.50	0.8913	Complies
06	2437	14.62	0.00	14.62	29.50	0.8913	Complies
11	2462	13.65	0.00	13.65	29.50	0.8913	Complies

Test Mode	TX B Mode_Total
------------------	-----------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	21.11	29.50	0.8913	Complies
06	2437	18.44	29.50	0.8913	Complies
11	2462	17.62	29.50	0.8913	Complies

Test Mode	TX G Mode_Ant. 1
-----------	------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	15.25	0.17	15.42	29.50	0.8913	Complies
06	2437	18.47	0.17	18.64	29.50	0.8913	Complies
11	2462	16.61	0.17	16.78	29.50	0.8913	Complies

Test Mode	TX G Mode_Ant. 2
-----------	------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.81	0.17	14.98	29.50	0.8913	Complies
06	2437	18.09	0.17	18.26	29.50	0.8913	Complies
11	2462	16.18	0.17	16.35	29.50	0.8913	Complies

Test Mode	TX G Mode_Total
-----------	-----------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.21	29.50	0.8913	Complies
06	2437	21.46	29.50	0.8913	Complies
11	2462	19.58	29.50	0.8913	Complies

Test Mode	TX N(HT20) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.19	0.10	14.29	29.50	0.8913	Complies
06	2437	18.64	0.10	18.74	29.50	0.8913	Complies
11	2462	15.48	0.10	15.58	29.50	0.8913	Complies

Test Mode	TX N(HT20) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	13.84	0.10	13.94	29.50	0.8913	Complies
06	2437	18.37	0.10	18.47	29.50	0.8913	Complies
11	2462	15.06	0.10	15.16	29.50	0.8913	Complies

Test Mode	TX N(HT20) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.13	29.50	0.8913	Complies
06	2437	21.62	29.50	0.8913	Complies
11	2462	18.38	29.50	0.8913	Complies

Test Mode	TX N(HT40) Mode_Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	10.59	0.67	11.26	29.50	0.8913	Complies
06	2437	15.63	0.67	16.30	29.50	0.8913	Complies
09	2452	12.52	0.67	13.19	29.50	0.8913	Complies

Test Mode	TX N(HT40) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	9.87	0.67	10.54	29.50	0.8913	Complies
06	2437	14.59	0.67	15.26	29.50	0.8913	Complies
09	2452	12.09	0.67	12.76	29.50	0.8913	Complies

Test Mode	TX N(HT40) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	13.92	29.50	0.8913	Complies
06	2437	18.82	29.50	0.8913	Complies
09	2452	15.99	29.50	0.8913	Complies

Beamforming

Test Mode	TX N(HT20) Mode_Ant. 1
------------------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	13.48	0.10	13.58	29.51	0.8933	Complies
06	2437	18.06	0.10	18.16	29.51	0.8933	Complies
11	2462	14.87	0.10	14.97	29.51	0.8933	Complies

Test Mode	TX N(HT20) Mode_Ant. 2
------------------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	13.38	0.10	13.48	29.51	0.8933	Complies
06	2437	17.82	0.10	17.92	29.51	0.8933	Complies
11	2462	14.53	0.10	14.63	29.51	0.8933	Complies

Test Mode	TX N(HT20) Mode_Total
------------------	-----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	16.54	29.51	0.8933	Complies
06	2437	21.05	29.51	0.8933	Complies
11	2462	17.81	29.51	0.8933	Complies

Test Mode	TX N(HT40) Mode_Ant. 1
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	10.02	0.67	10.69	29.51	0.8933	Complies
06	2437	15.02	0.67	15.69	29.51	0.8933	Complies
09	2452	12.06	0.67	12.73	29.51	0.8933	Complies

Test Mode	TX N(HT40) Mode_Ant. 2
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	9.38	0.67	10.05	29.51	0.8933	Complies
06	2437	14.21	0.67	14.88	29.51	0.8933	Complies
09	2452	11.64	0.67	12.31	29.51	0.8933	Complies

Test Mode	TX N(HT40) Mode_Total
-----------	-----------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	13.39	29.51	0.8933	Complies
06	2437	18.31	29.51	0.8933	Complies
09	2452	15.53	29.51	0.8933	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS