



FCC Radio Test Report

FCC ID: 2A33X-S11

This report concerns: Original Grant

Project No. : 2409C083
System Name : QYX Pro
Brand Name : Qianxun SI
System Model : QYX Pro
Name
Equipment : Tablet
Test Model : S11
Series Model : N/A
Applicant : Qianxun Spatial Intelligence(Zhejiang) Inc.
Address : No.1,Building12,Area C,Deqing Geographic Info Town,Wuyang Street,Deqing County,Huzhou City,Zhejiang Province,China
Manufacturer : Qianxun Spatial Intelligence(Zhejiang) Inc.
Address : No.1,Building12,Area C,Deqing Geographic Info Town,Wuyang Street,Deqing County,Huzhou City,Zhejiang Province,China
Date of Receipt : Sep. 24, 2024
Date of Test : Sep. 25, 2024 ~ Nov. 11, 2024
Issued Date : Dec. 10, 2024
Report Version : R01
Test Sample : Engineering Sample No.: DG2024092432
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

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

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

Limitation

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

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

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2409C083	R00	Original Report.	Nov. 29, 2024	Invalid
BTL-FCCP-3-2409C083	R01	Modified the comments.	Dec. 10, 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

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

BTL's Registration Number for FCC: 747969

BTL's Designation Number for FCC: CN1377

2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95.45% 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_i (dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.88

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	U_i (dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	U_i (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_i (dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	4.08
		6GHz ~ 18GHz	4.62

Test Site	Method	Measurement Frequency Range	U_i (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	Tested Date
AC Power Line Conducted Emissions	26°C	52%	AC120V/60HZ	Hayden Chen	Oct. 21, 2024
Radiated Emissions-9kHz to 30 MHz	25°C	50%	DC 10V	Hayden Chen	Nov. 06, 2024
Radiated Emissions-30MHz to 1000MHz	20°C	51%	DC 10V	Calvin Wen	Oct. 20, 2024
Radiated Emissions-Above 1000MHz	22°C	53%	DC 10V	Allen Tong	Oct. 24, 2024 Oct. 25, 2024
	24°C	51%	DC 10V	Calvin Wen	Oct. 25, 2024
Bandwidth	22°C	61%	DC 10V	Avrin Tong	Oct. 18, 2024
Maximum Output Power	23-25°C	52-60%	DC 10V	Alex Yin	Oct. 18, 2024~ Nov. 04, 2024
Conducted Spurious Emissions	22°C	61%	DC 10V	Avrin Tong	Oct. 18, 2024
Power Spectral Density	22°C	61%	DC 10V	Avrin Tong	Oct. 18, 2024

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

System Name	QYX Pro
Brand Name	Qianxun SI
System Model Name	QYX Pro
Equipment	Tablet
Test Model	S11
Series Model	N/A
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 72.2 Mbps
Maximum Output Power	IEEE 802.11g: 27.81 dBm (0.6039 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)							
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.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	Shenzhen HE DIAN XUN Technology Co.,Ltd	SPRING2 10PRO	PPC	N/A	3.84

4.	Equipment RF specification	Automated Steering System (Model: QYX Pro receiver)	Tablet (Model: S11)	Electric steering wheel (Model: ESW1)
	GPS	support	/	/
	Bluetooth(BT+BLE)	/	BT+BLE	BLE
	WIFI	2.4G	2.4G	/
	GSM	/	/	/
	WCDMA	/	Band 2, 4, 5	/
	LTE	Band 2, 4, 5, 7, 12, 13, 25, 26, 38, 41, 66	Band 2, 4, 5, 7, 12, 13, 25, 26, 38, 41	/

Note: The system (QYX Pro) consists of three parts, automated steering system (Model: QYX Pro receiver), electric steering wheel (Model: ESW1) and tablet (Model: S11).

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 G 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 4	TX G Mode Channel 06

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 4	TX G Mode Channel 06

Radiated emissions test- Above 1GHz	
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

Conducted test	
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

NOTE:

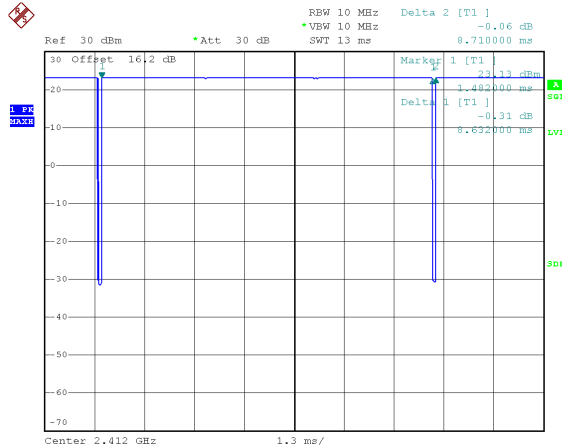
- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX G Mode Channel 06 is found to be the worst case and recorded.
- (3) For radiated emission 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) 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

Test Software Version	ADB		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	17	16	17
IEEE 802.11g	14	19	15
IEEE 802.11n(HT20)	13	19	14

3.4 DUTY CYCLE

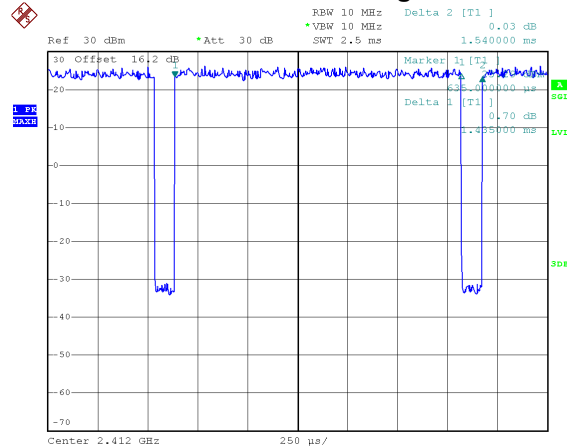
IEEE 802.11b



Date: 18.OCT.2024 18:58:32

Duty cycle = 8.632 ms / 8.710 ms = 99.10%
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$

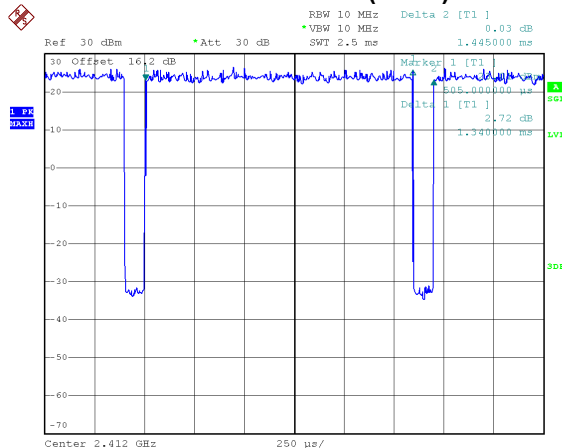
IEEE 802.11g



Date: 18.OCT.2024 19:08:30

Duty cycle = 1.435 ms / 1.540 ms = 93.18%
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.31$

IEEE 802.11n(HT20)



Date: 18.OCT.2024 19:17:31

Duty cycle = 1.340 ms / 1.445 ms = 92.73%
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.33$

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:

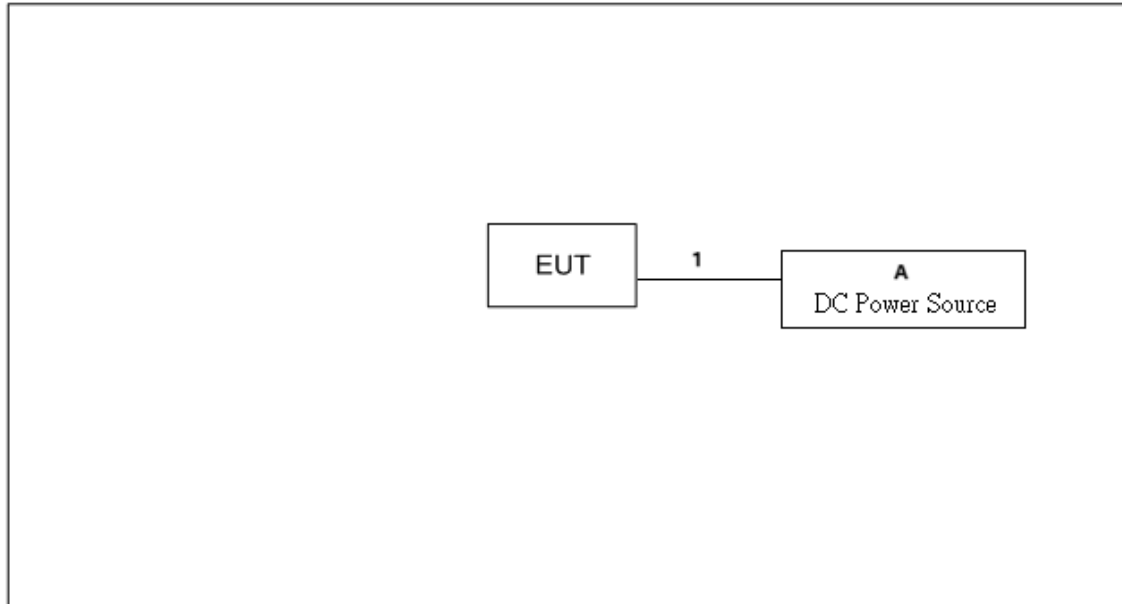
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 697 Hz.

For IEEE 802.11n(HT20):

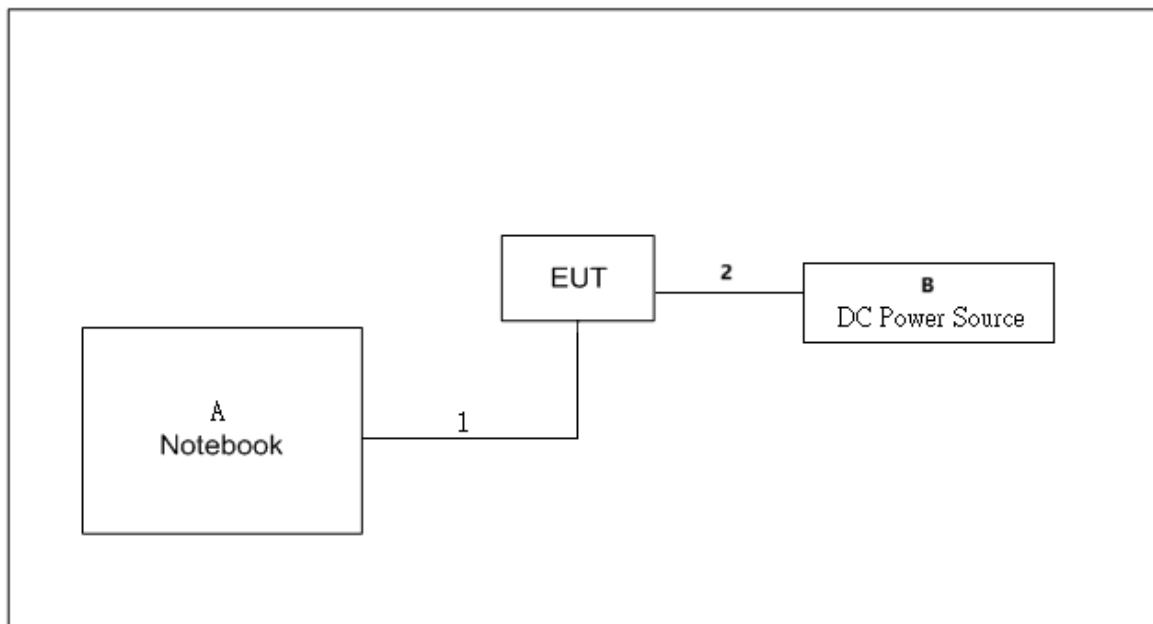
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 746 Hz.

3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated emissions test - Below 1GHz



Radiated emissions test - Above 1GHz



3.6 SUPPORT UNITS

Radiated emissions test - Below 1GHz

Item	Equipment	Brand	Model No.	Series No.
A	DC Power Source	UNI-T	UDP6721	AWP7224050031

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	3.0m

Radiated emissions test - Above 1GHz

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	HP	Compaq 510	CNU9314Q9W
B	DC Power Source	UNI-T	UDP6721	AWP7224050031

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB Cable	NO	NO	1.2m
2	DC Cable	NO	NO	3.0m

3.7 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain is provided by the manufacturer.
- 2) Except for AC power line conducted emissions and radiated emissions, the results of all test items include cable losses. 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.

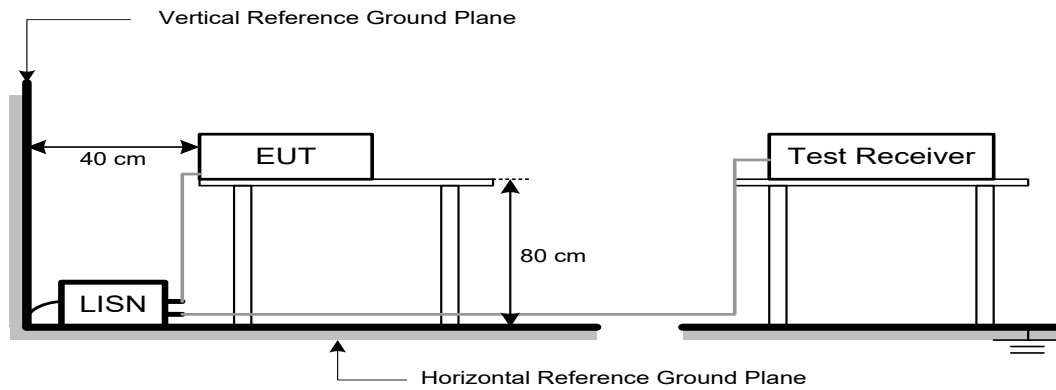
The following table is the setting of the receiver:

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 (dBμV/m)		Harmonic at 1m (dBμV/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 (dBuV/m)=20log Emission level (uV/m).
- (4)

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

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

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

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

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

d_{measure}: Harmonic Actual test distance.

5.2 TEST PROCEDURE

- 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)
- 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)
- 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.
- 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).
- 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.
- 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.
- 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)
- 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)
- 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

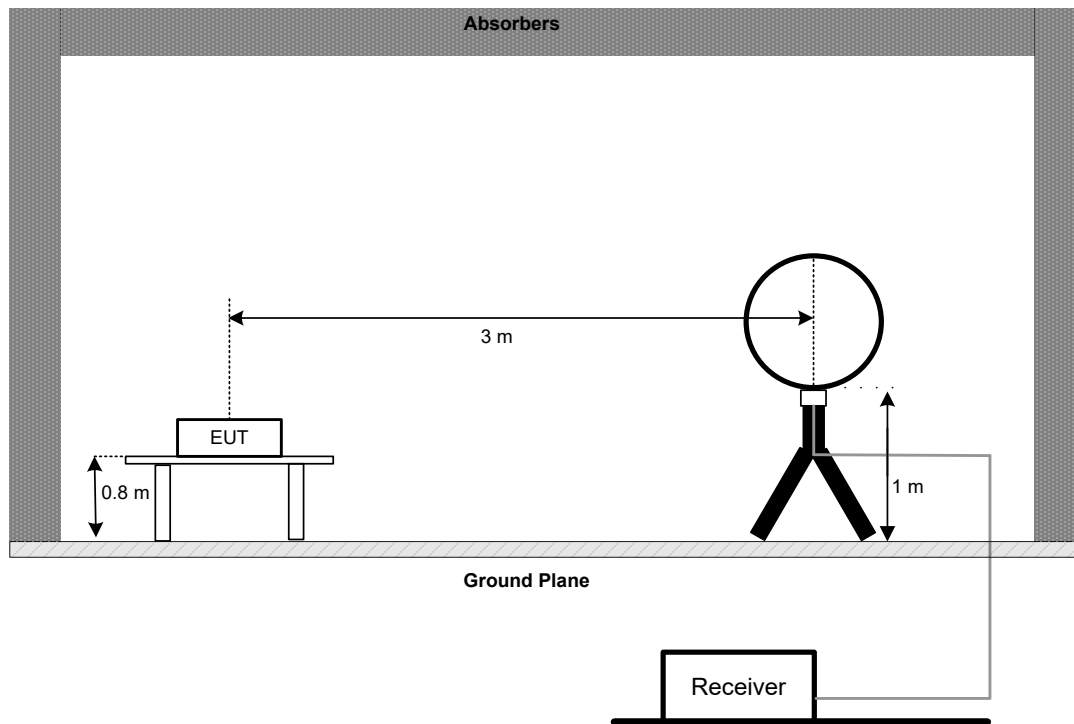
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

5.3 DEVIATION FROM TEST STANDARD

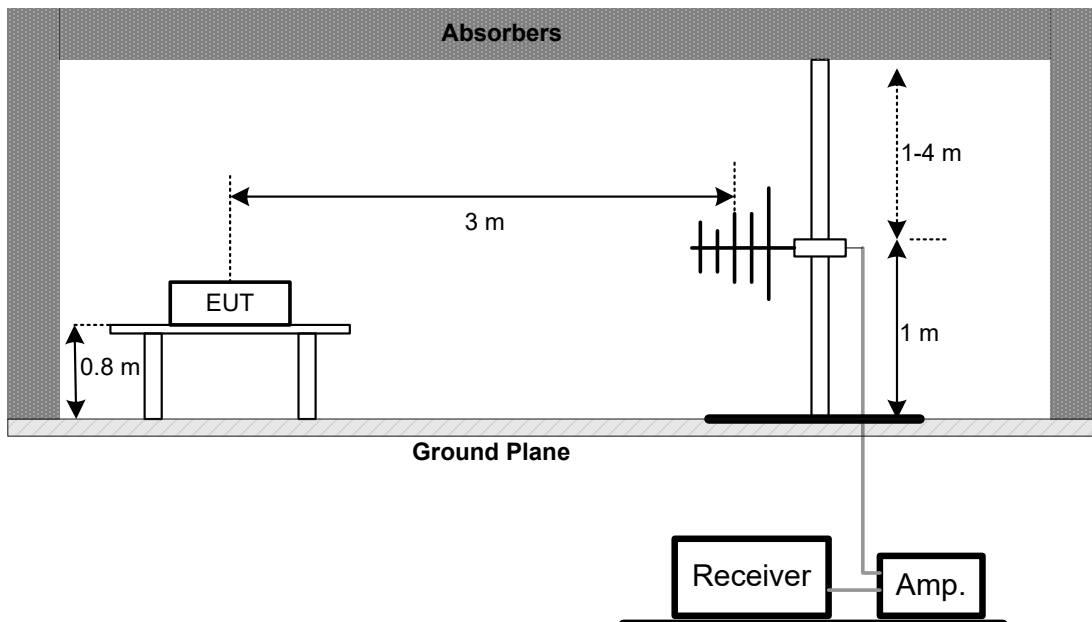
No deviation.

5.4 TEST SETUP

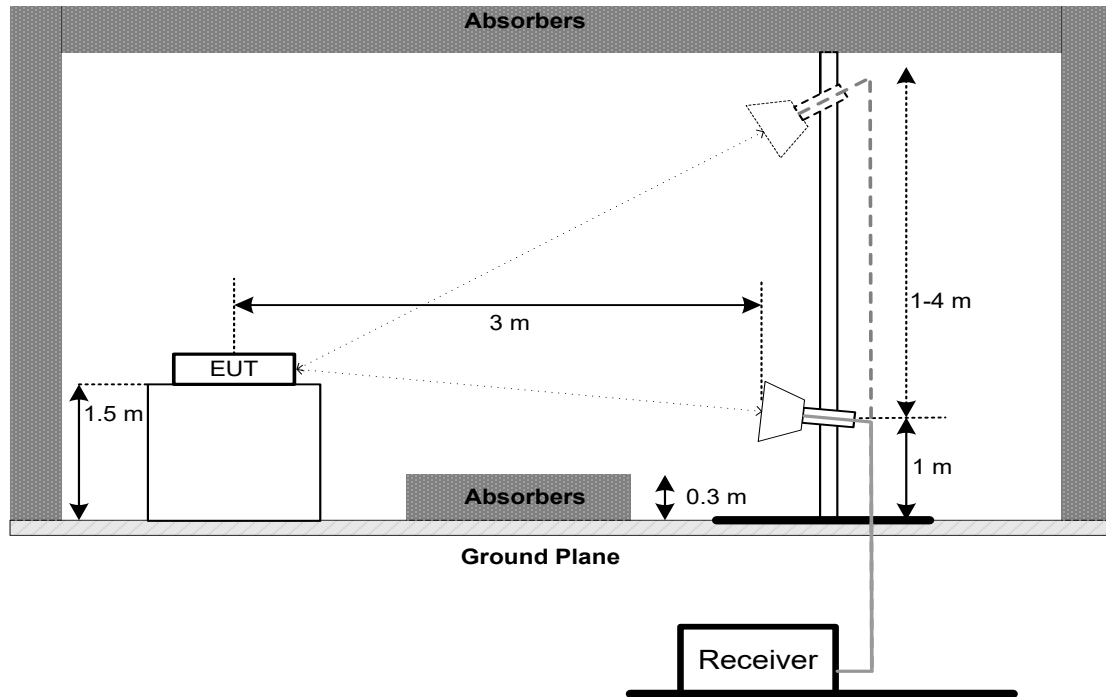
9 kHz to 30 MHz



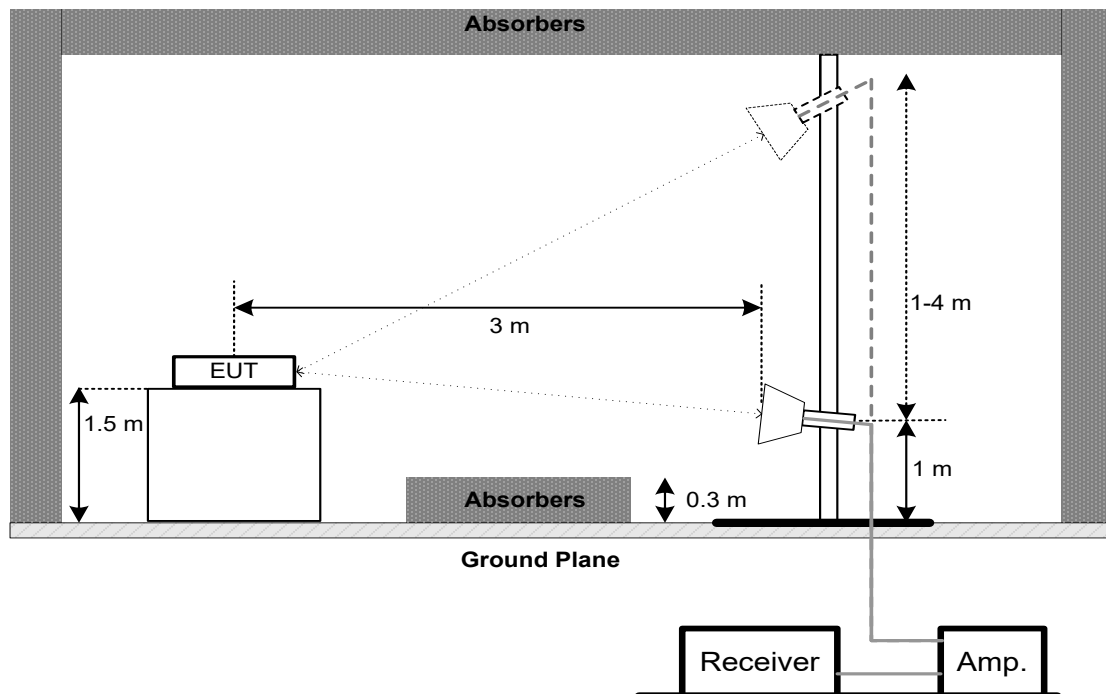
30 MHz to 1 GHz

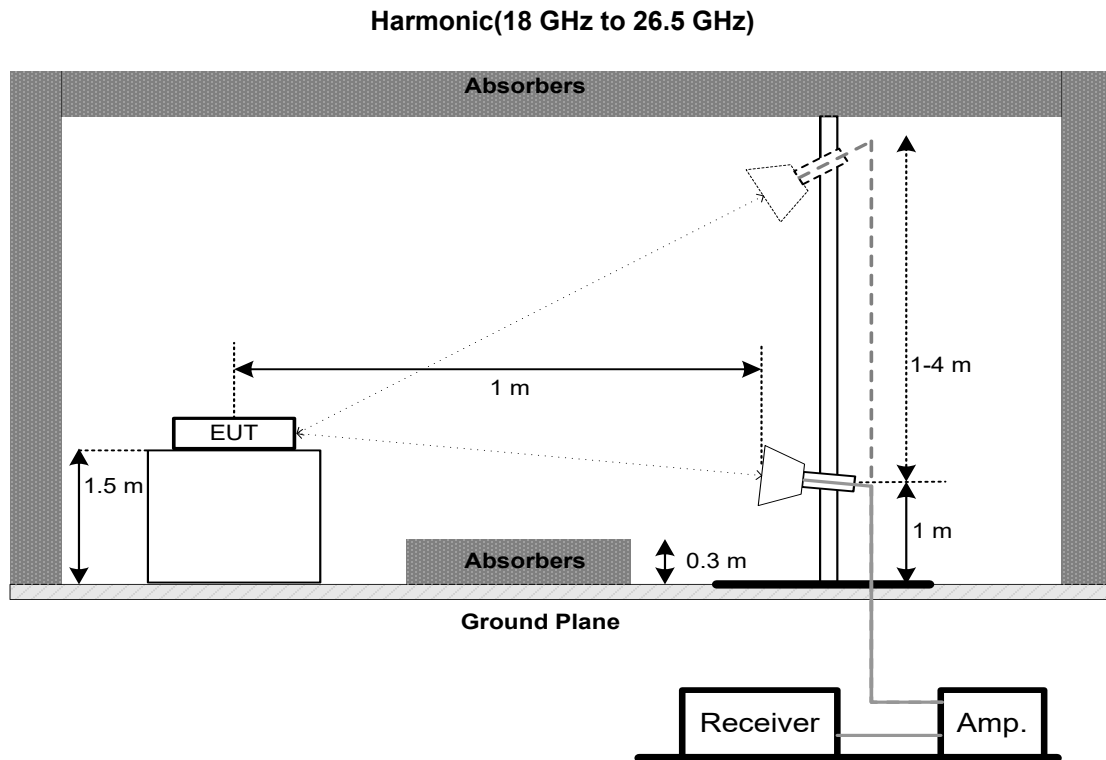


Above 1 GHz Band edge



Harmonic(1 GHz to 18 GHz)





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

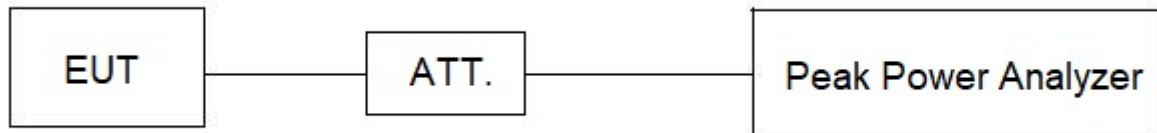
7.2 TEST PROCEDURE

- 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 11.9.1.3 (for peak power) of ANSI C63.10-2013.

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

- 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
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	ESCI	100382	Dec. 22, 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
6	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 2025

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60B	1513-60 B-034	Mar. 30, 2025
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 22, 2024
3	Cable	N/A	RW2350-3.8A-NMB M-1.5M	N/A	Jun. 09, 2025
4	Cable	N/A	LMR400-NMNM-8 M	N/A	Sep. 09, 2025
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	966 Chamber room	ETS	9*6*6	N/A	May 16, 2025
7	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 2025

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	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	Jun. 06, 2025
5	Cable	RegalWay	LMR400-NMNM-3 m	N/A	Jun. 06, 2025
6	Cable	RegalWay	LMR400-NMNM-0. 5m	N/A	Jun. 06, 2025
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 16, 2025
11	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 2025

Radiated Emissions - 1 GHz to 18GHz

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	Double Ridged Guide Antenna	ETS	3115	75789	Jun. 15, 2025
4	Cable	RegalWay	RWLP50-4.0A-SMS M-12.5M	N/A	Jul. 03, 2025
5	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Jul. 03, 2025
6	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-0.8M	N/A	Jul. 03, 2025
7	966 Chamber room	CM	9*6*6	N/A	May 19, 2025
8	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
9	Filter	STI	STI15-9912	N/A	May 31, 2025
10	Positioning Controller	MF	MF-7802	N/A	N/A
11	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
12	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 2025

Radiated Emissions - Above 18 GHz

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330 -K	619413	Jul. 17, 2025
2	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 25, 2025
3	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025
4	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 16, 2025
5	Positioning Controller	MF	MF-7802	N/A	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	966 Chamber room	CM	9*6*6	N/A	May 19, 2025
8	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63380204	Nov. 17, 2024
9	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 2025

Bandwidth & Conducted Spurious Emissions & Power Spectral Density

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	May 31, 2025
2	Measurement Software	BTL	BTL Conducted Test	N/A	N/A
3	Attenuator	STI	STI01-0201-01	N/A	Dec. 22, 2024
4	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 2025

Maximum Output Power

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	May 31, 2025
2	Wideband power sensor	Keysight	N1923A	MY58310004	May 31, 2025
3	Attenuator	STI	STI01-0201-01	N/A	Dec. 22, 2024
4	DC power supply	UNI-T	UDP6721	AWP7224050031	Mar. 20, 2025

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

All calibration period of equipment list is one year.

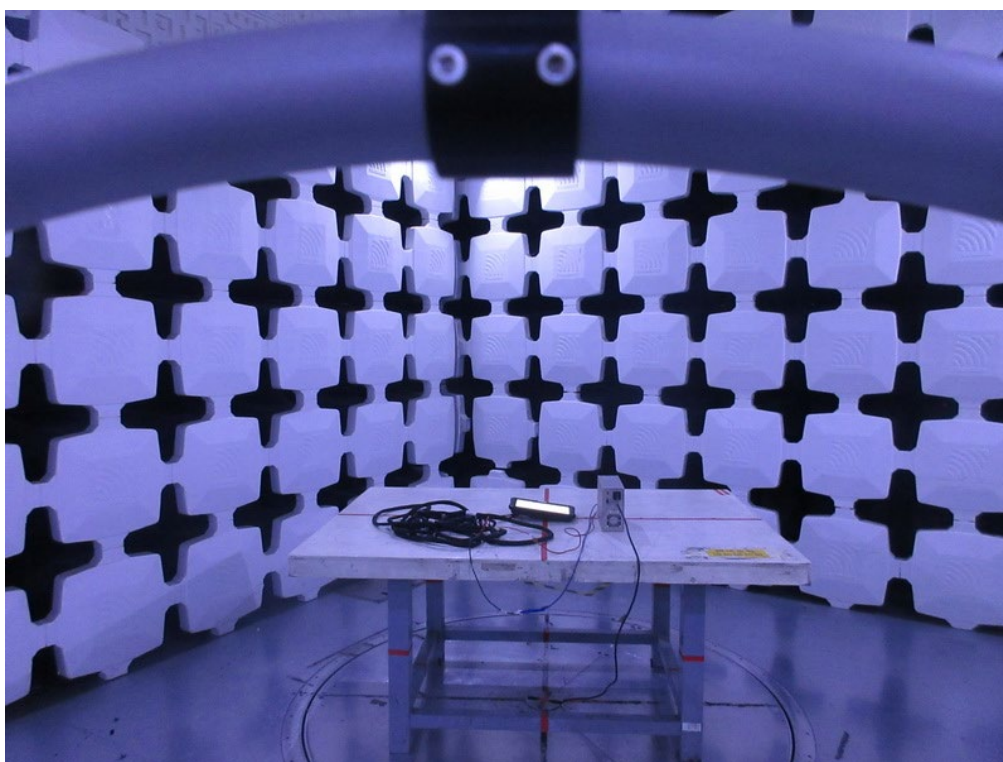
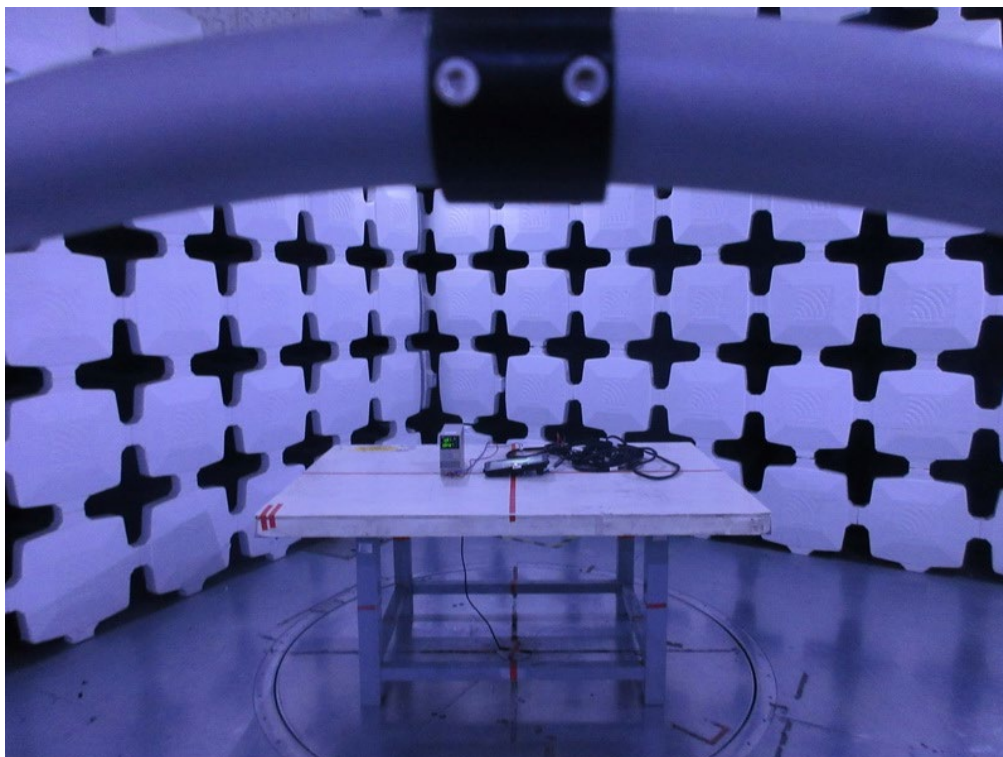
11. EUT TEST PHOTO

AC Power Line Conducted Emissions Test Photos



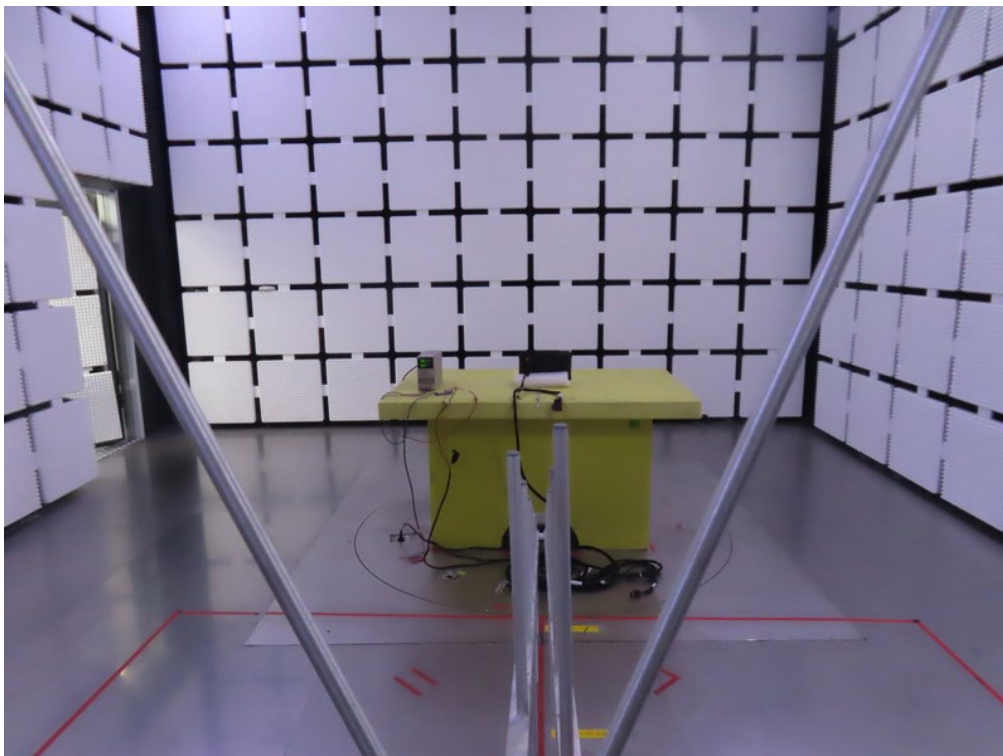
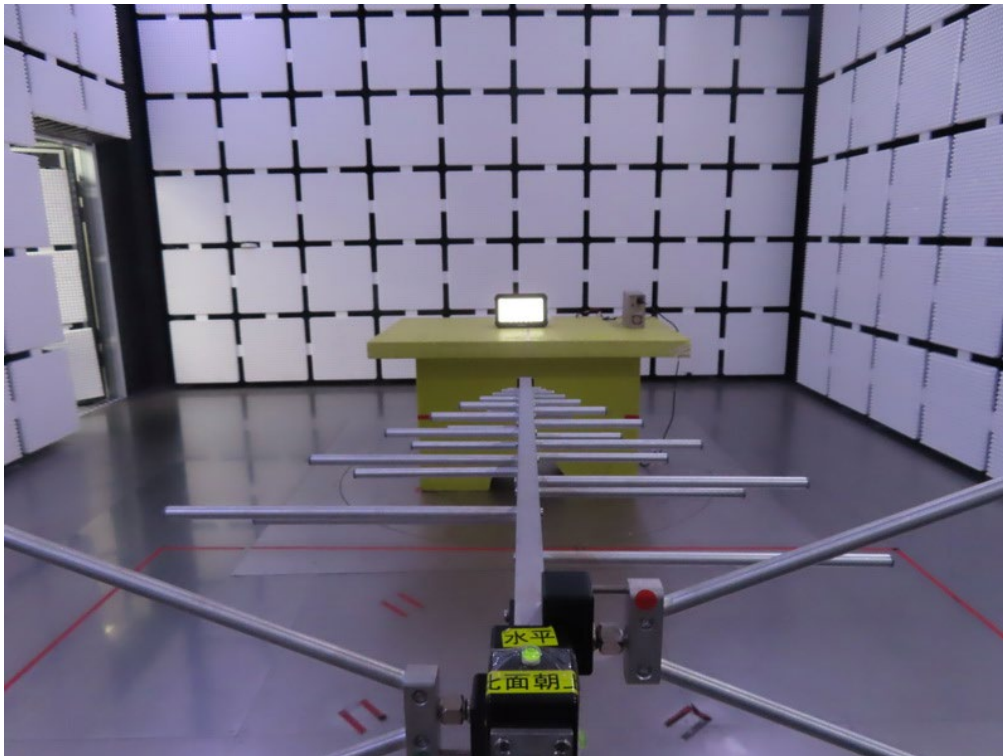
Radiated Emissions Test Photos

9 kHz to 30 MHz

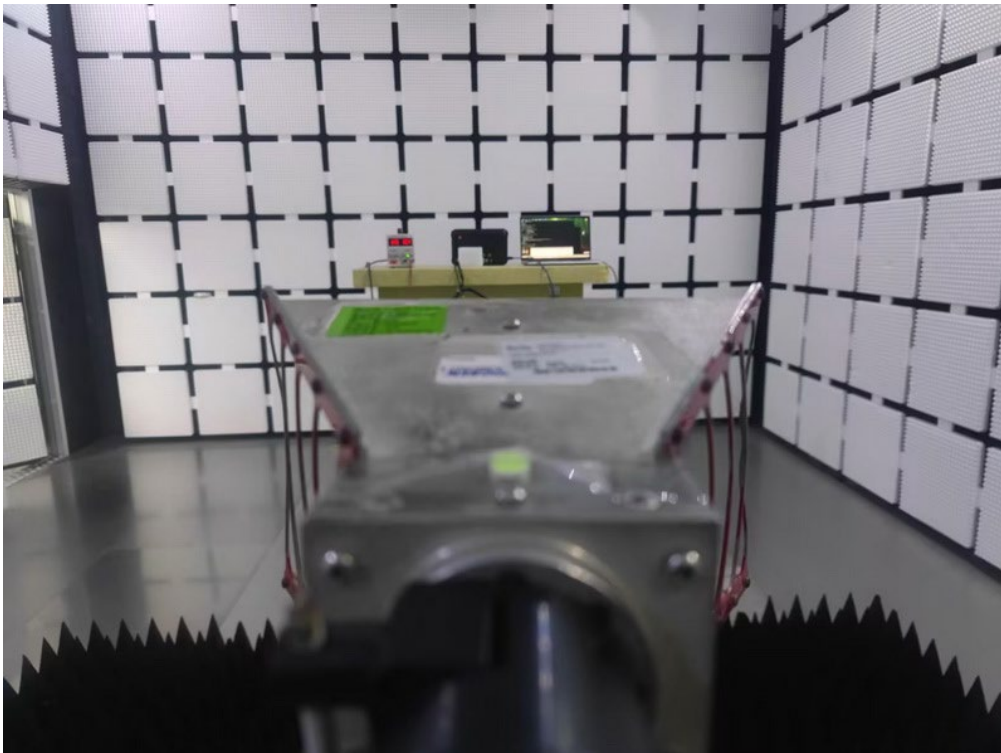
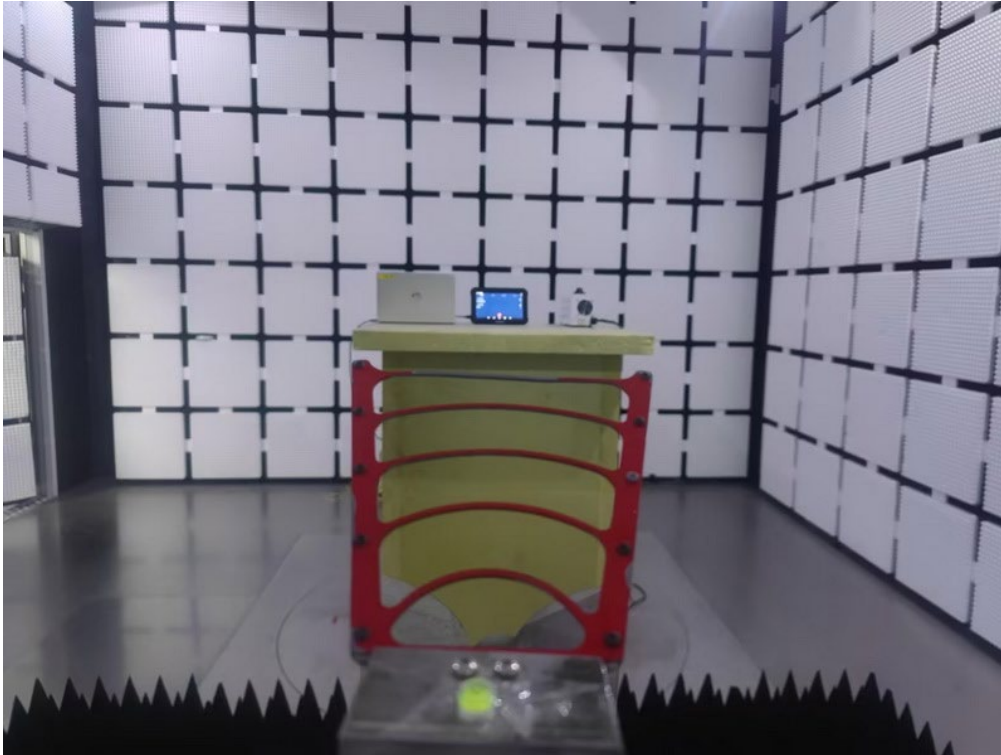


Radiated Emissions Test Photos

30 MHz to 1000 MHz

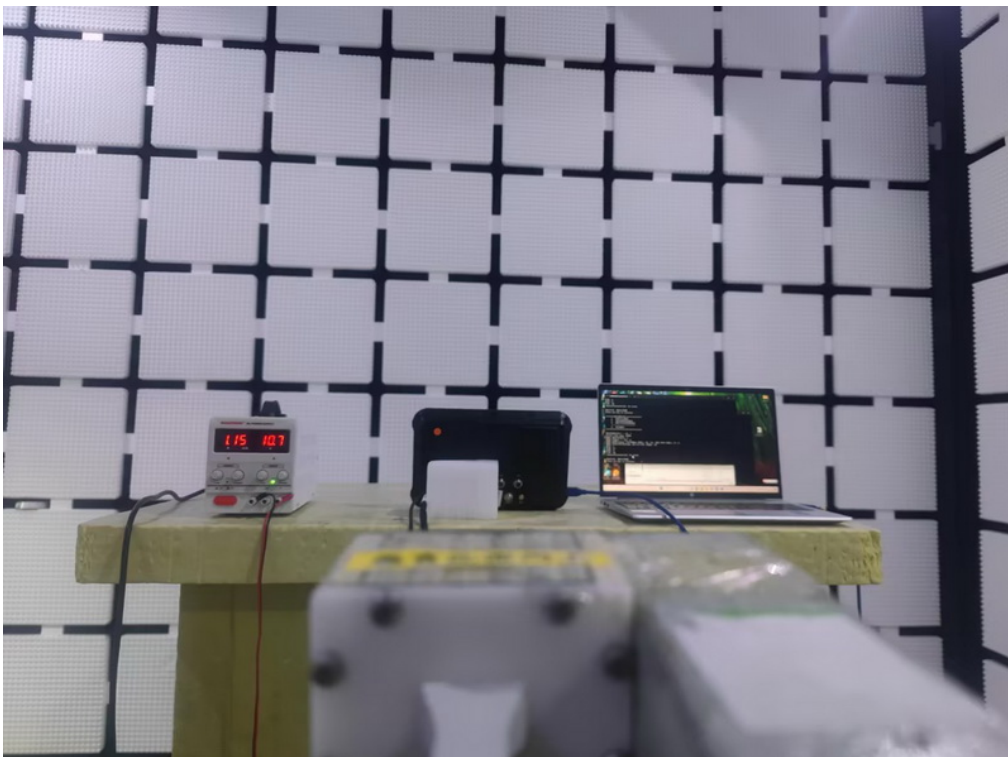
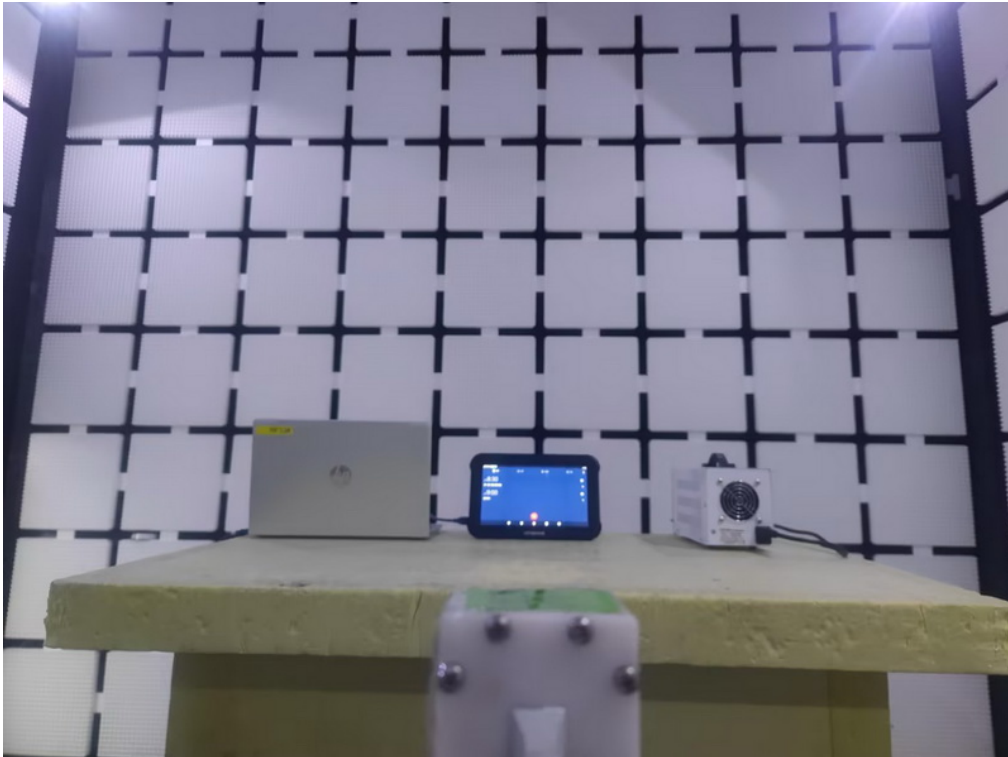


Radiated Emissions Test Photos Band edge & Harmonic (1 GHz to 18 GHz)

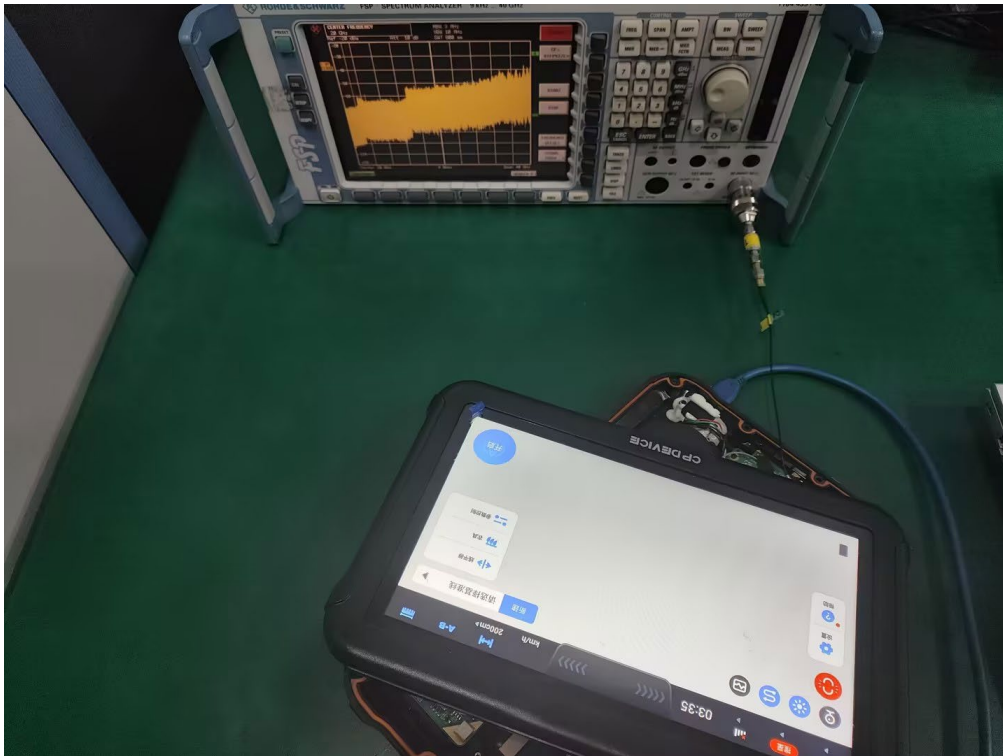
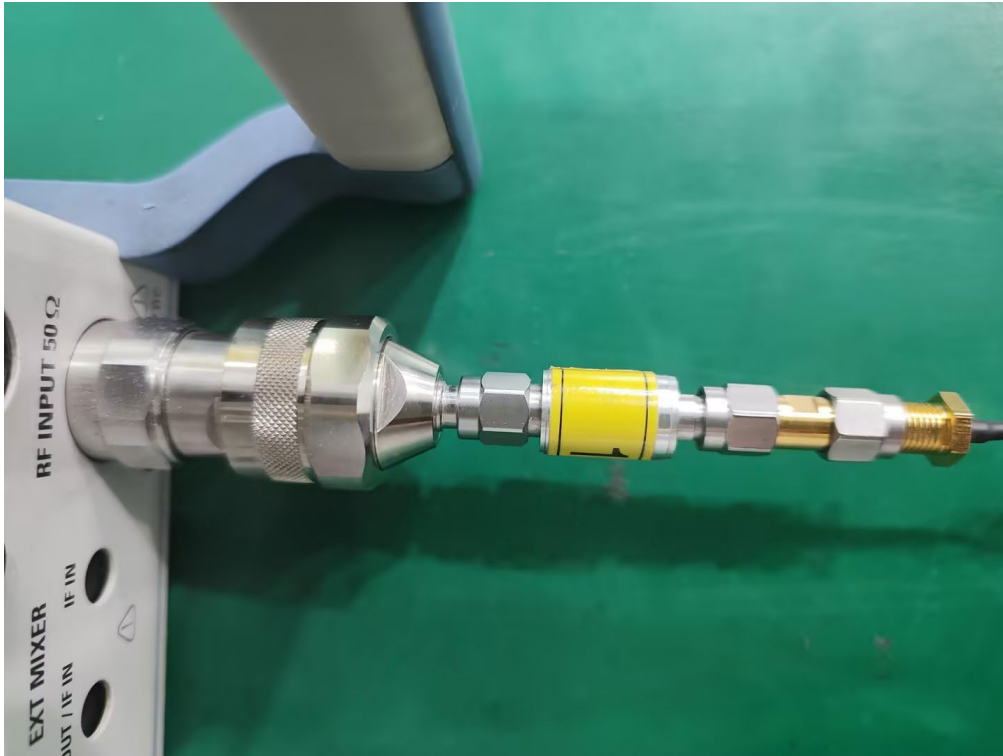


Radiated Emissions Test Photos

Harmonic (18 GHz to 26.5 GHz)

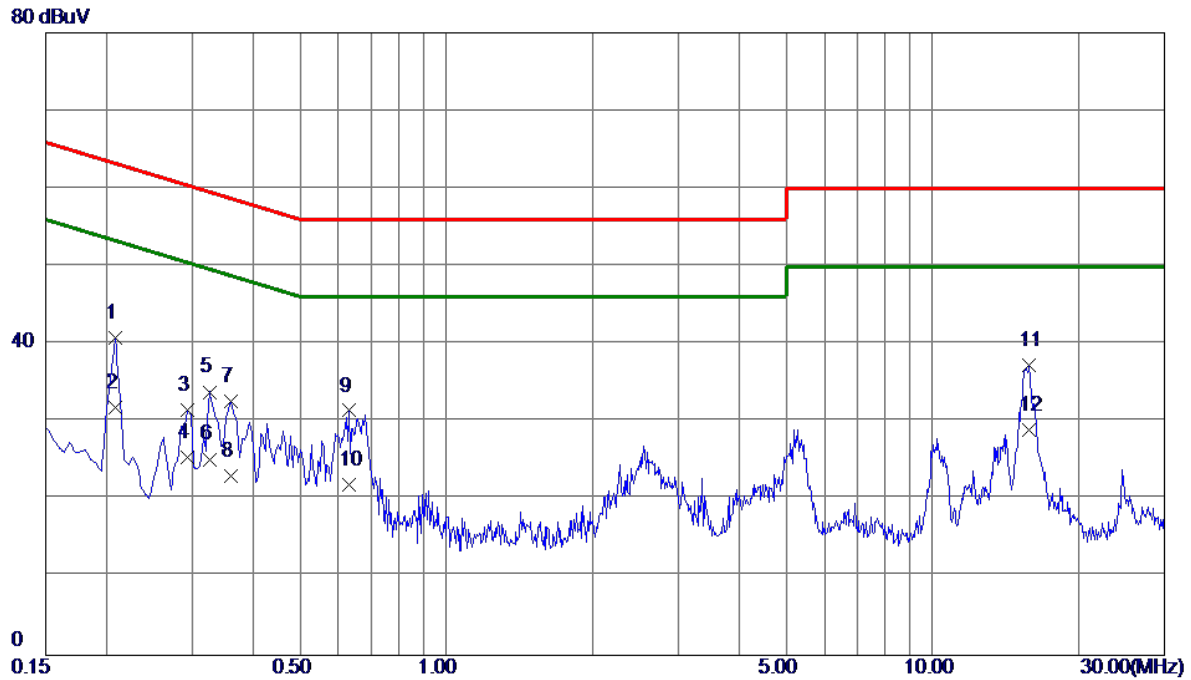


Conducted Test Photos



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX G Mode Channel 06	Phase	Line
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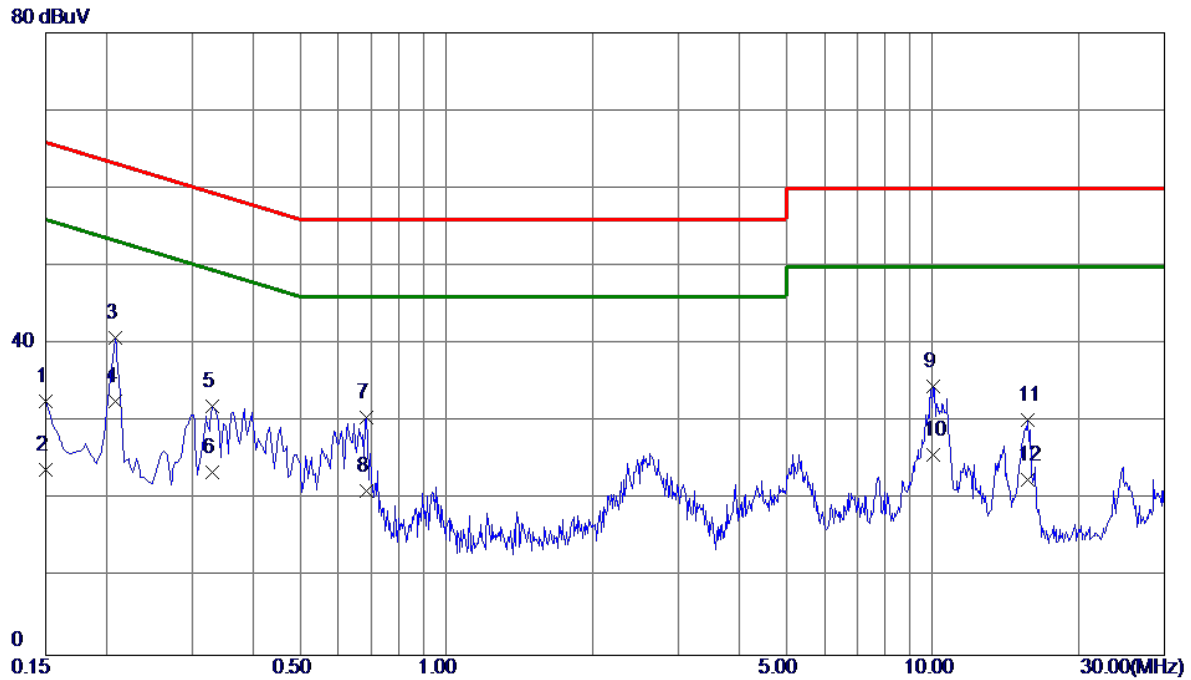


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.2085	31.22	9.56	40.78	63.26	-22.48	QP	
2	0.2085	22.30	9.56	31.86	53.26	-21.40	AVG	
3	0.2940	21.91	9.59	31.50	60.41	-28.91	QP	
4	0.2940	15.80	9.59	25.39	50.41	-25.02	AVG	
5	0.3255	24.24	9.60	33.84	59.57	-25.73	QP	
6	0.3255	15.60	9.60	25.20	49.57	-24.37	AVG	
7	0.3615	22.97	9.60	32.57	58.69	-26.12	QP	
8	0.3615	13.40	9.60	23.00	48.69	-25.69	AVG	
9	0.6315	21.81	9.63	31.44	56.00	-24.56	QP	
10	0.6315	12.29	9.63	21.92	46.00	-24.08	AVG	
11	15.8100	27.20	10.08	37.28	60.00	-22.72	QP	
12 *	15.8100	18.90	10.08	28.98	50.00	-21.02	AVG	

REMARKS:

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

Test Mode	TX G Mode Channel 06	Phase	Neutral
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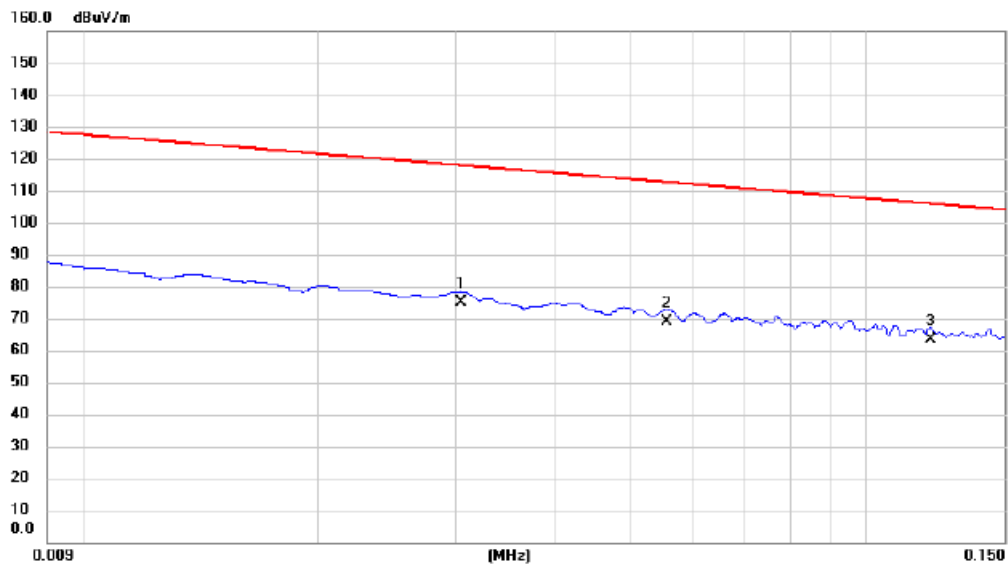
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	23.09	9.57	32.66	66.00	-33.34	QP	
2	0.1500	14.20	9.57	23.77	56.00	-32.23	AVG	
3	0.2085	31.21	9.60	40.81	63.26	-22.45	QP	
4 *	0.2085	23.10	9.60	32.70	53.26	-20.56	AVG	
5	0.3300	22.33	9.63	31.96	59.45	-27.49	QP	
6	0.3300	13.90	9.63	23.53	49.45	-25.92	AVG	
7	0.6855	20.91	9.68	30.59	56.00	-25.41	QP	
8	0.6855	11.41	9.68	21.09	46.00	-24.91	AVG	
9	10.0635	24.48	10.13	34.61	60.00	-25.39	QP	
10	10.0635	15.60	10.13	25.73	50.00	-24.27	AVG	
11	15.6795	20.15	10.13	30.28	60.00	-29.72	QP	
12	15.6795	12.41	10.13	22.54	50.00	-27.46	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 G Mode Channel 06	Polarization	Ant 0°
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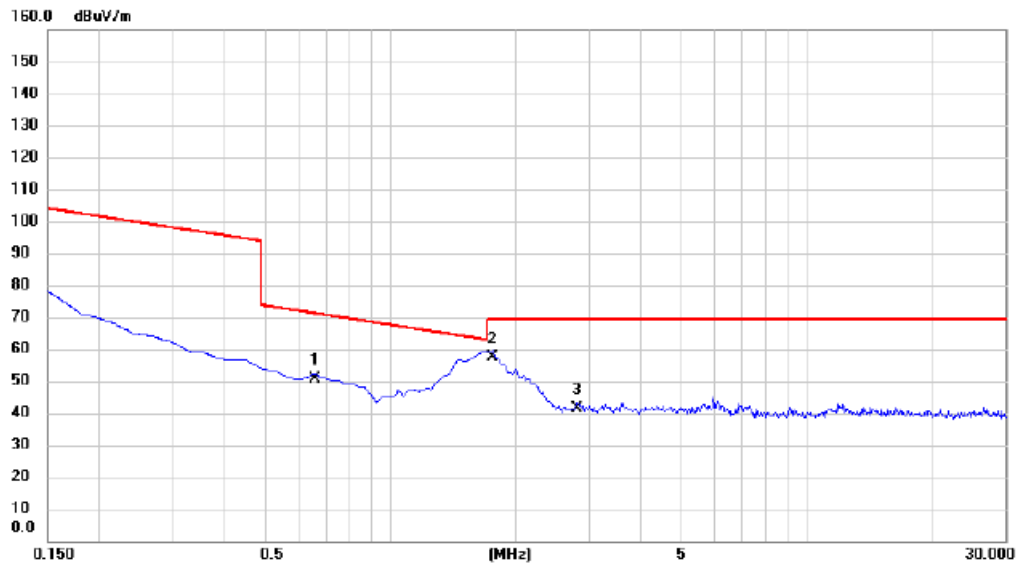
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0304	53.96	21.13	75.09	117.95	-42.86	AVG	
2	0.0557	47.68	21.25	68.93	112.69	-43.76	AVG	
3 *	0.1207	42.03	21.30	63.33	105.97	-42.64	QP	

REMARKS:

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

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

Test Mode	TX G Mode Channel 06	Polarization	Ant 0°
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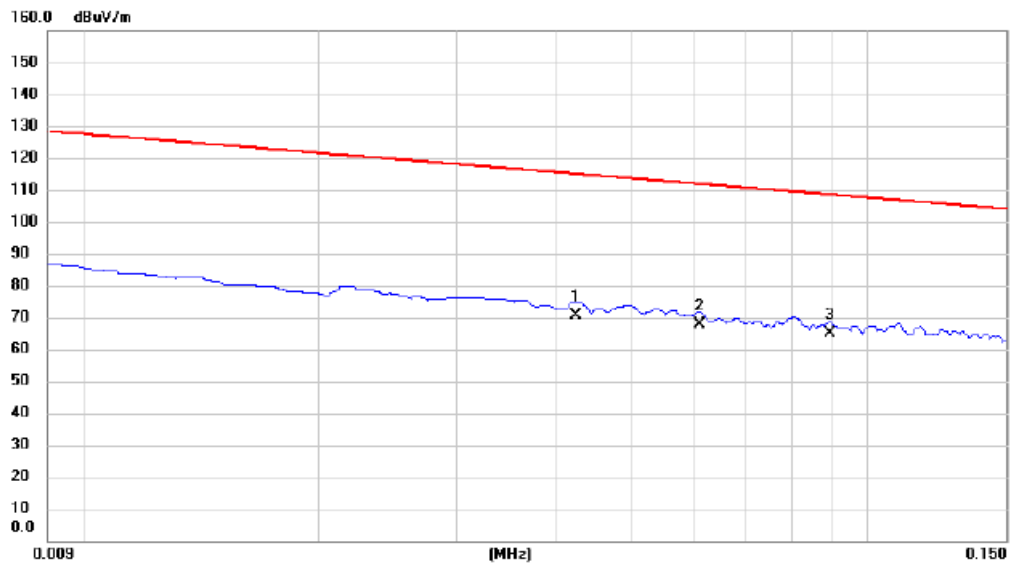


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.6574	29.30	21.12	50.42	71.25	-20.83	QP	
2	*	1.7620	36.25	21.12	57.37	69.54	-12.17	QP	
3		2.8066	20.13	21.12	41.25	69.54	-28.29	QP	

REMARKS:

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

Test Mode	TX G Mode Channel 06	Polarization	Ant 90°
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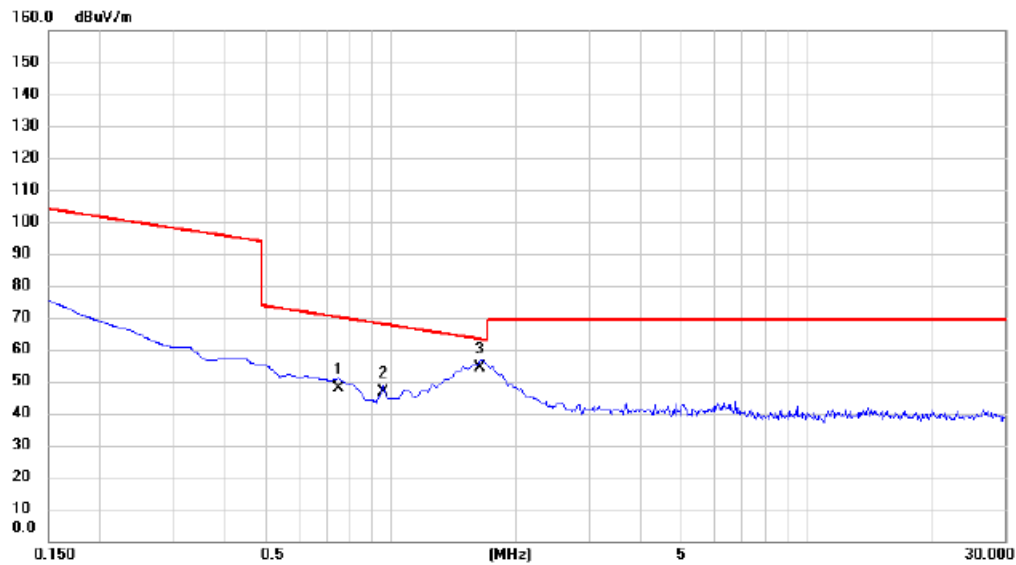


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0425	49.38	21.19	70.57	115.04	-44.47	AVG	
2	0.0610	46.72	21.27	67.99	111.90	-43.91	AVG	
3 *	0.0897	43.77	21.33	65.10	108.55	-43.45	AVG	

REMARKS:

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

Test Mode	TX G Mode Channel 06	Polarization	Ant 90°
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.7470	26.49	21.15	47.64	70.14	-22.50	QP	
2		0.9560	25.36	21.19	46.55	68.00	-21.45	QP	
3	*	1.6425	33.02	21.14	54.16	63.29	-9.13	QP	

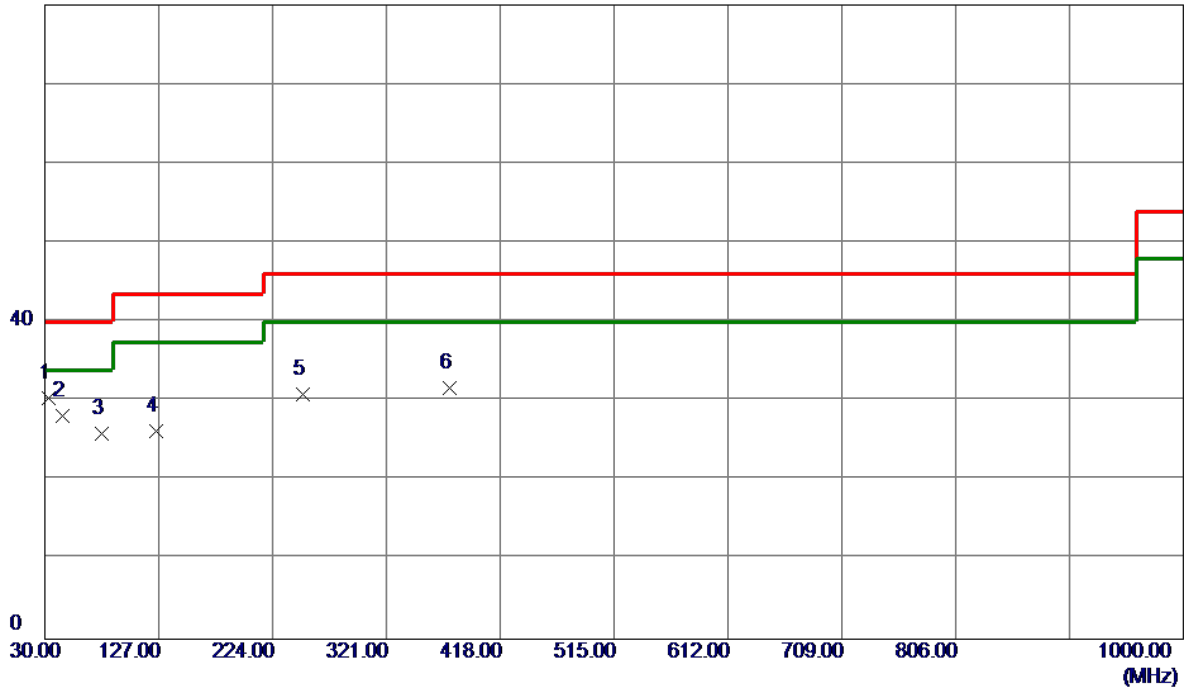
REMARKS:

- (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 G Mode Channel 06	Polarization	Vertical
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80 dBuV/m



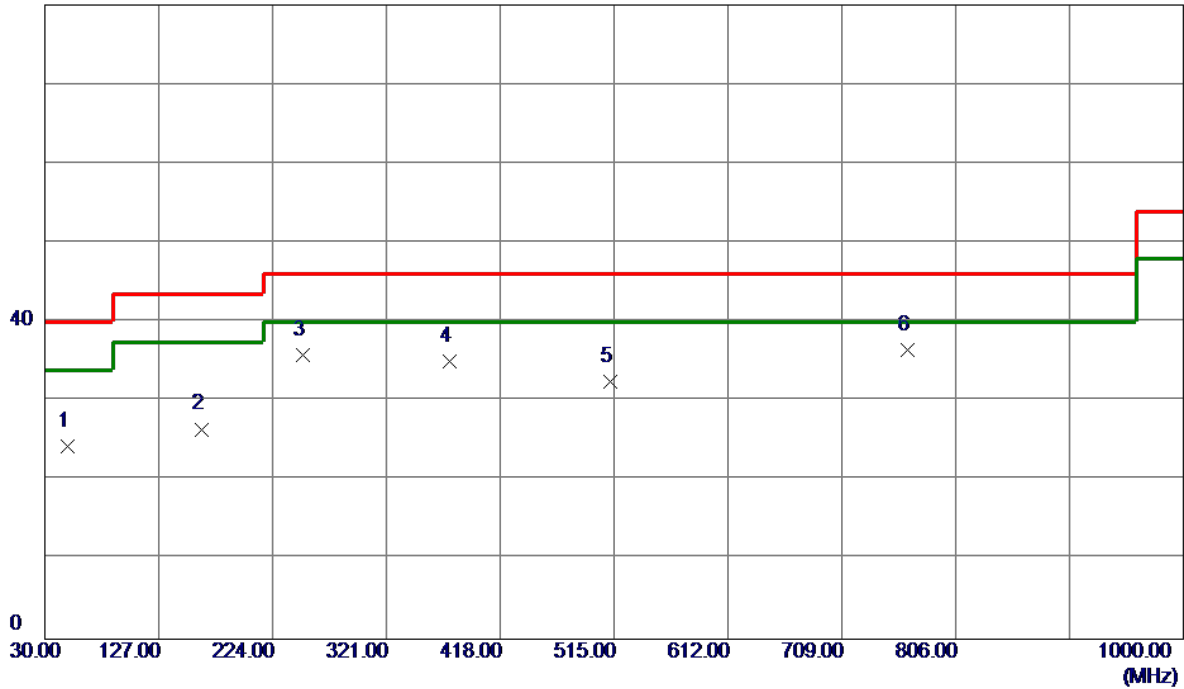
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	32.9100	43.03	-12.57	30.46	40.00	-9.54	Peak	
2	45.0350	39.53	-11.36	28.17	40.00	-11.83	Peak	
3	78.9850	41.16	-15.23	25.93	40.00	-14.07	Peak	
4	125.0600	38.95	-12.78	26.17	43.52	-17.35	Peak	
5	250.1900	43.30	-12.35	30.95	46.02	-15.07	Peak	
6	374.8350	40.45	-8.82	31.63	46.02	-14.39	Peak	

REMARKS:

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

Test Mode	TX G 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	48.9150	35.65	-11.27	24.38	40.00	-15.62	Peak	
2	163.8600	37.48	-11.00	26.48	43.52	-17.04	Peak	
3	250.1900	48.16	-12.35	35.81	46.02	-10.21	Peak	
4	374.8350	43.89	-8.82	35.07	46.02	-10.95	Peak	
5	512.0900	38.29	-5.77	32.52	46.02	-13.50	Peak	
6 *	765.2600	37.59	-1.12	36.47	46.02	-9.55	Peak	

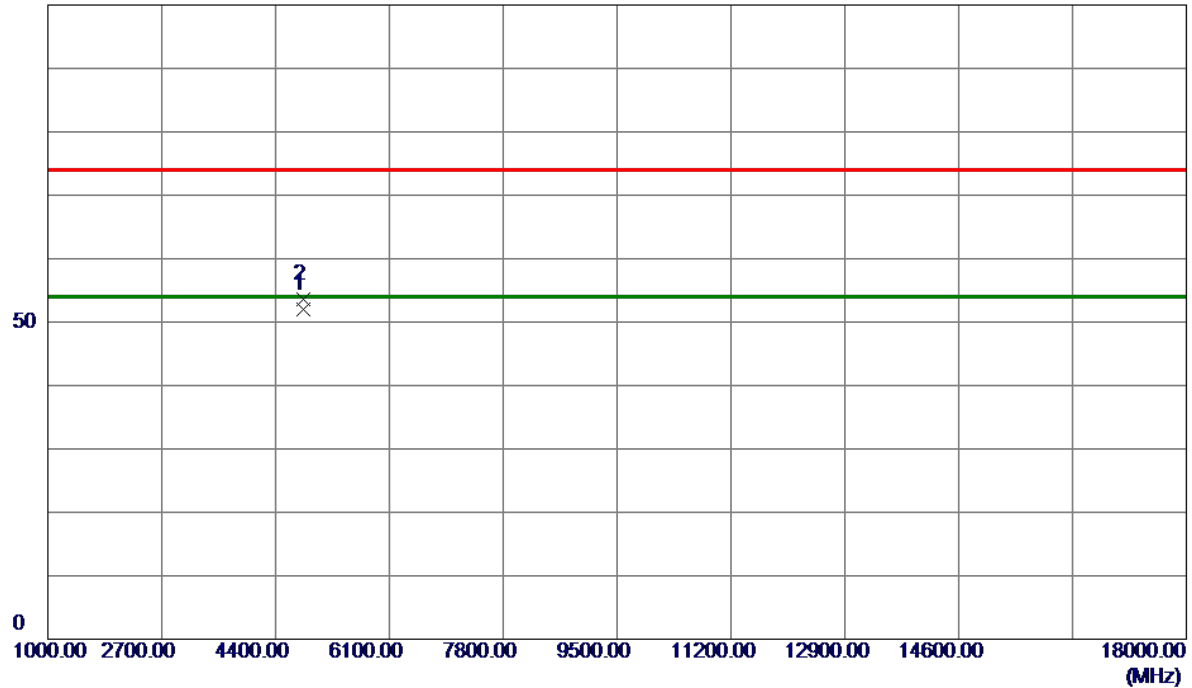
REMARKS:

- (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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100 dBuV/m



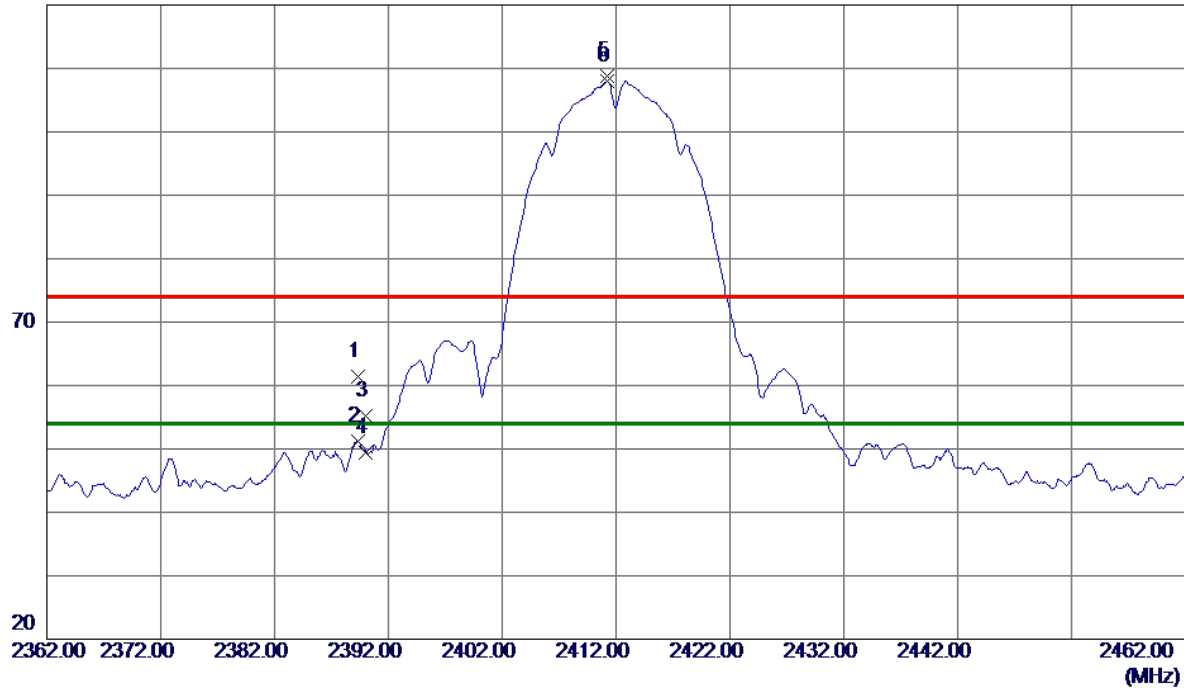
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9600	49.13	2.84	51.97	54.00	-2.03	AVG	
2	4824.0050	50.69	2.84	53.53	74.00	-20.47	Peak	

REMARKS:

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

Test Mode	TX B Mode 2412 MHz	Polarization	Horizontal
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120 dBuV/m



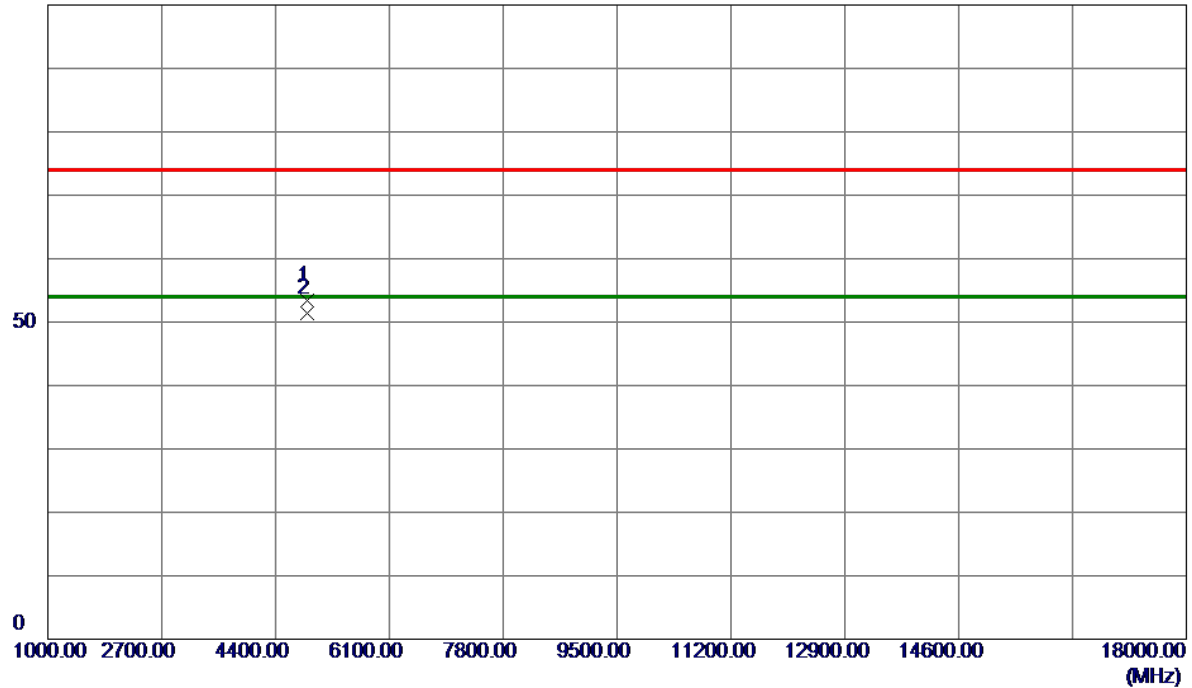
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2389.3000	53.68	7.70	61.38	74.00	-12.62	Peak	
2	2389.3000	43.58	7.70	51.28	54.00	-2.72	AVG	
3	2390.0000	47.54	7.70	55.24	74.00	-18.76	Peak	
4	2390.0000	41.76	7.70	49.46	54.00	-4.54	AVG	
5	2411.2000	101.08	7.72	108.80	74.00	34.80	Peak	No Limit
6 *	2411.2000	100.21	7.72	107.93	54.00	53.93	AVG	No Limit

REMARKS:

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

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

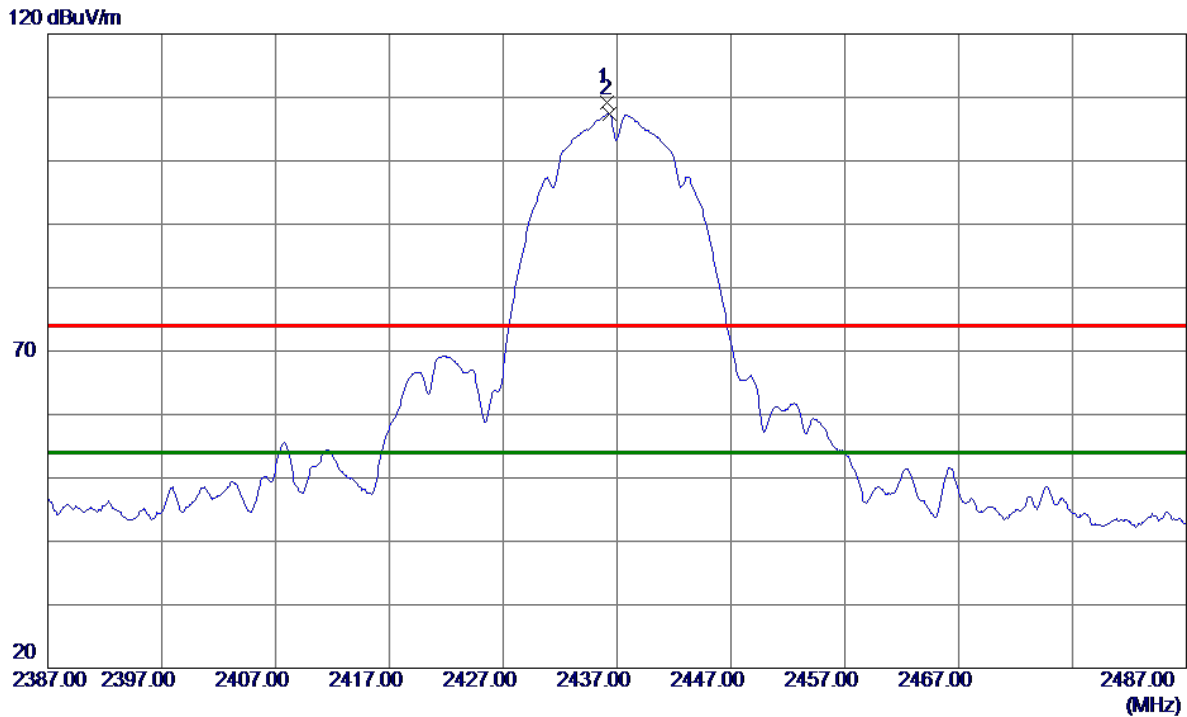


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9450	50.47	2.96	53.43	74.00	-20.57	Peak	
2 *	4873.9800	48.41	2.96	51.37	54.00	-2.63	AVG	

REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Horizontal
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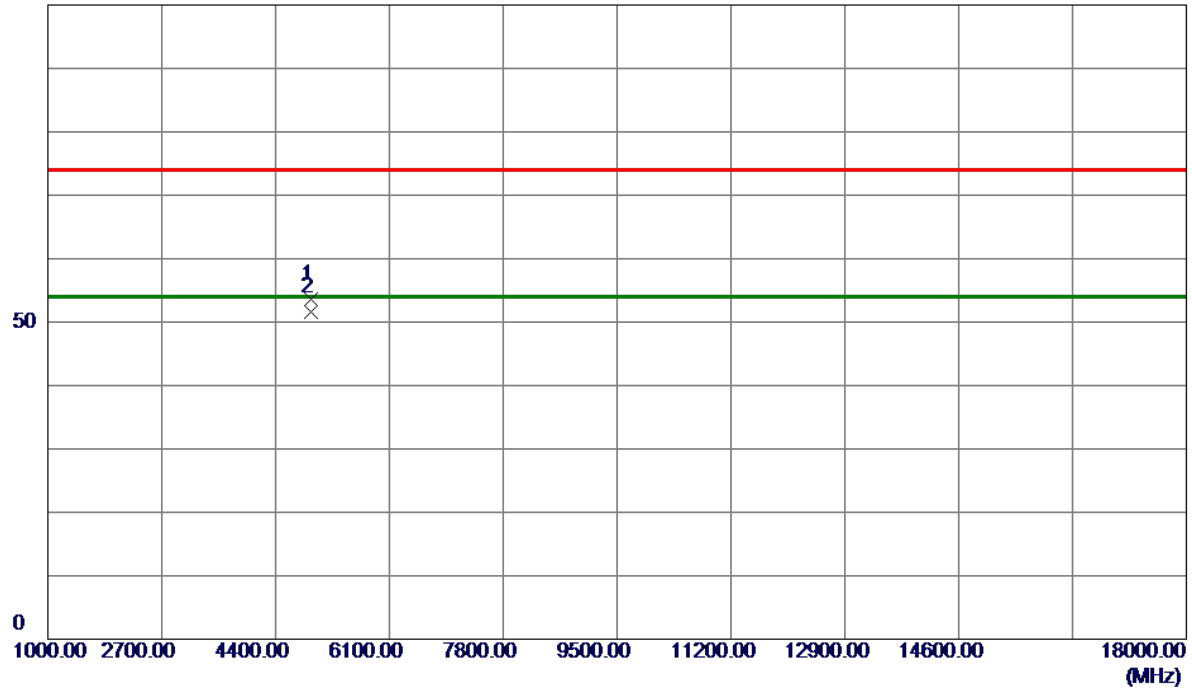
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.1500	101.48	7.75	109.23	74.00	35.23	Peak	No Limit
2 *	2436.3000	99.74	7.75	107.49	54.00	53.49	AVG	No Limit

REMARKS:

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

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

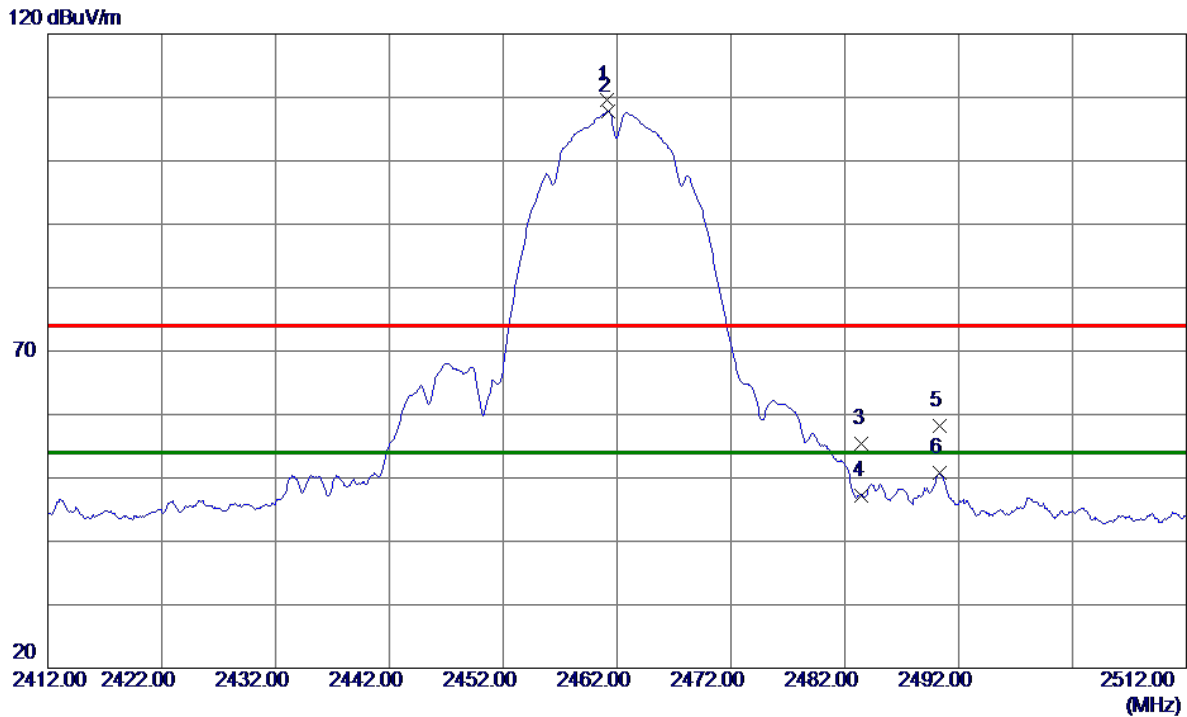


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9400	50.53	3.07	53.60	74.00	-20.40	Peak	
2 *	4923.9400	48.60	3.07	51.67	54.00	-2.33	AVG	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Horizontal
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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	101.89	7.78	109.67	74.00	35.67	Peak	No Limit
2 *	2461.2000	99.99	7.78	107.77	54.00	53.77	AVG	No Limit
3	2483.5000	47.51	7.81	55.32	74.00	-18.68	Peak	
4	2483.5000	39.39	7.81	47.20	54.00	-6.80	AVG	
5	2490.3500	50.42	7.82	58.24	74.00	-15.76	Peak	
6	2490.3500	42.96	7.82	50.78	54.00	-3.22	AVG	

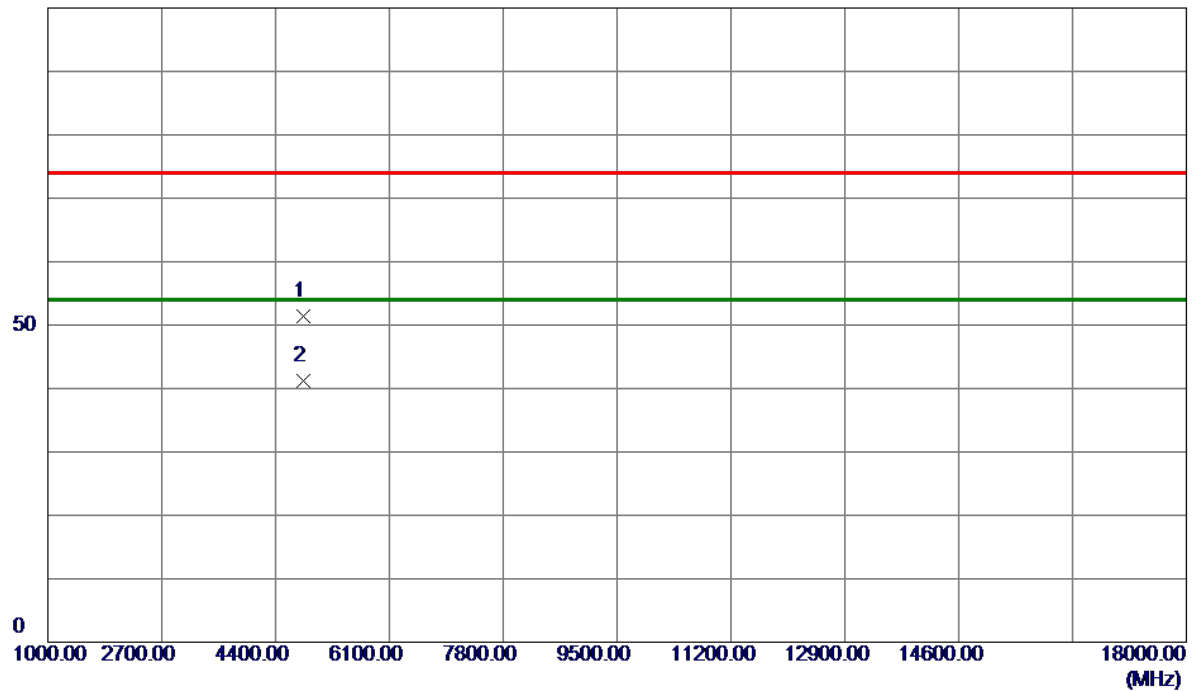
REMARKS:

(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

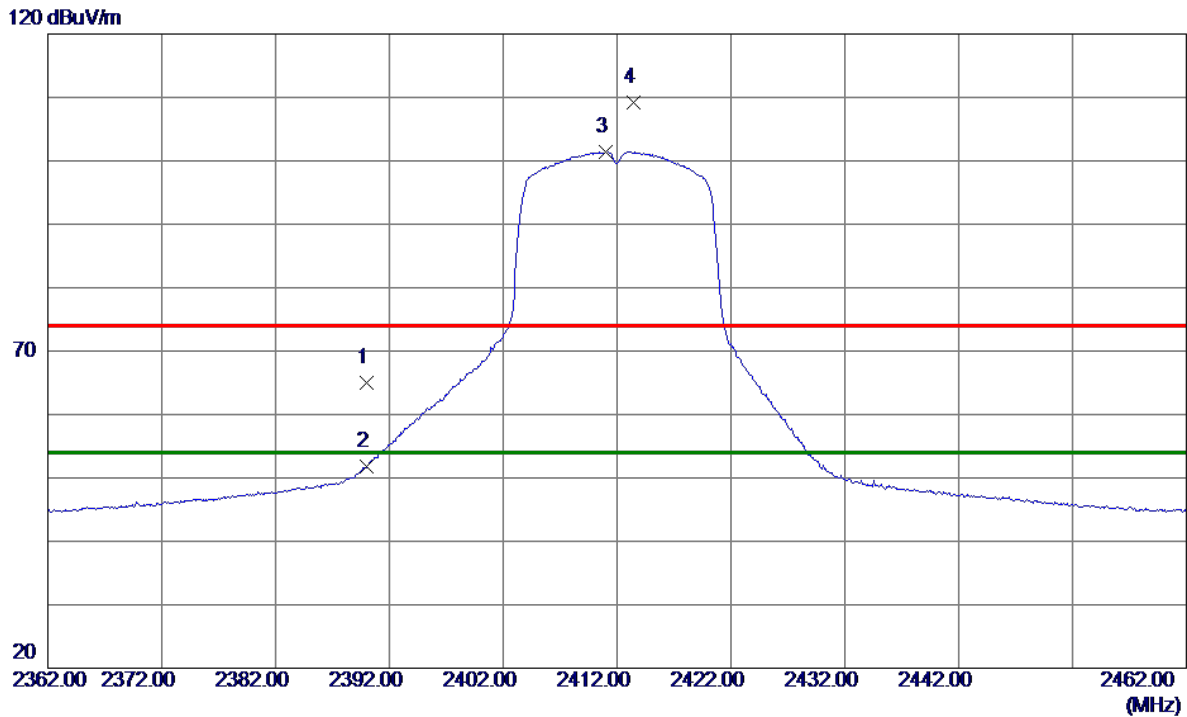


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4822.8000	48.50	2.84	51.34	74.00	-22.66	Peak	
2 *	4824.6000	38.32	2.84	41.16	54.00	-12.84	AVG	

REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Horizontal
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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	57.33	7.70	65.03	74.00	-8.97	Peak	
2	2390.0000	44.12	7.70	51.82	54.00	-2.18	AVG	
3 *	2411.0000	93.67	7.72	101.39	54.00	47.39	AVG	No Limit
4	2413.4000	101.49	7.73	109.22	74.00	35.22	Peak	No Limit

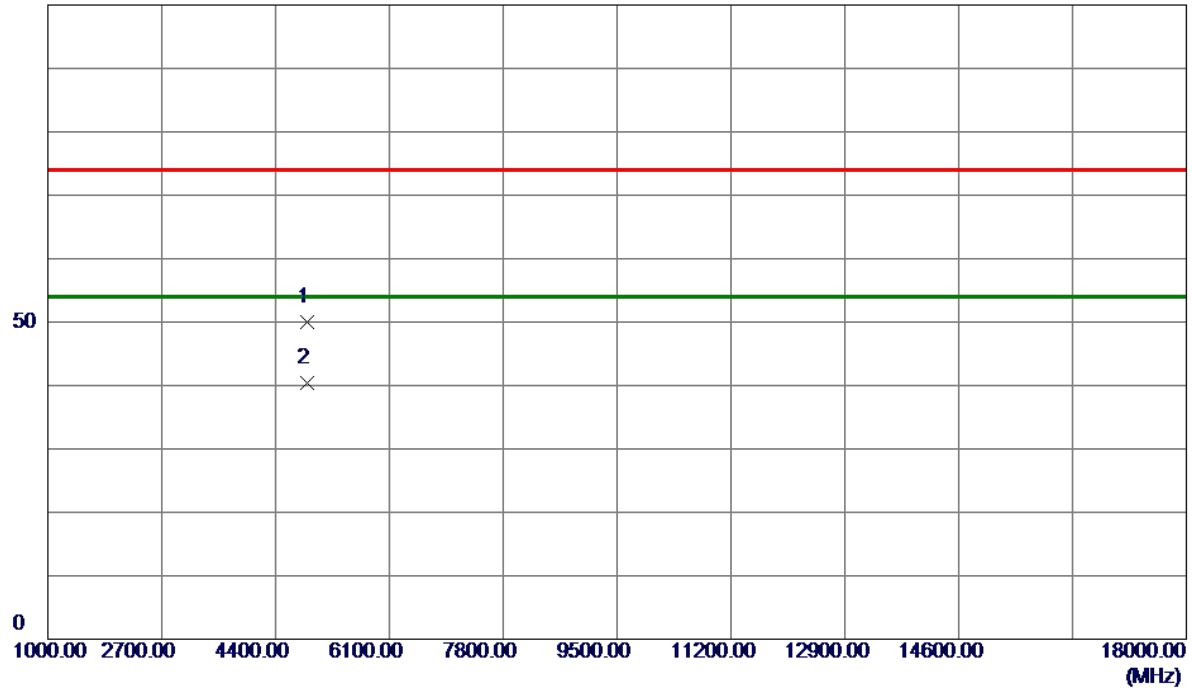
REMARKS:

(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

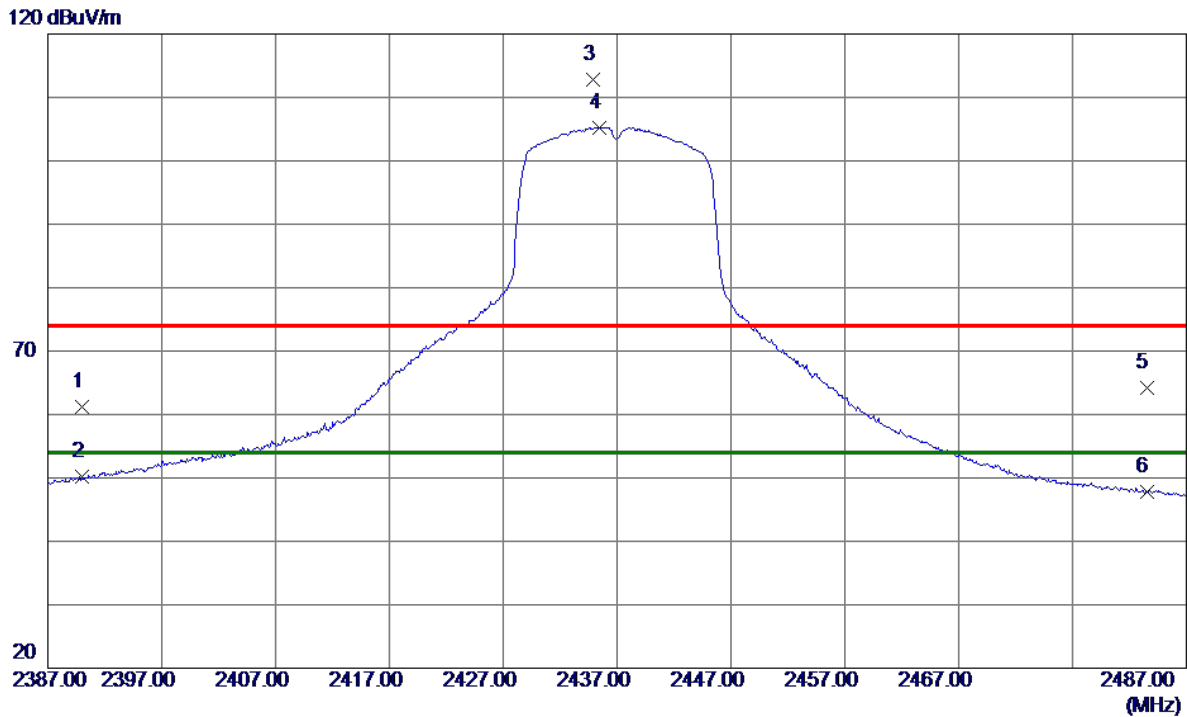


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4872.6000	47.02	2.95	49.97	74.00	-24.03	Peak	
2 *	4873.2000	37.50	2.95	40.45	54.00	-13.55	AVG	

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Horizontal
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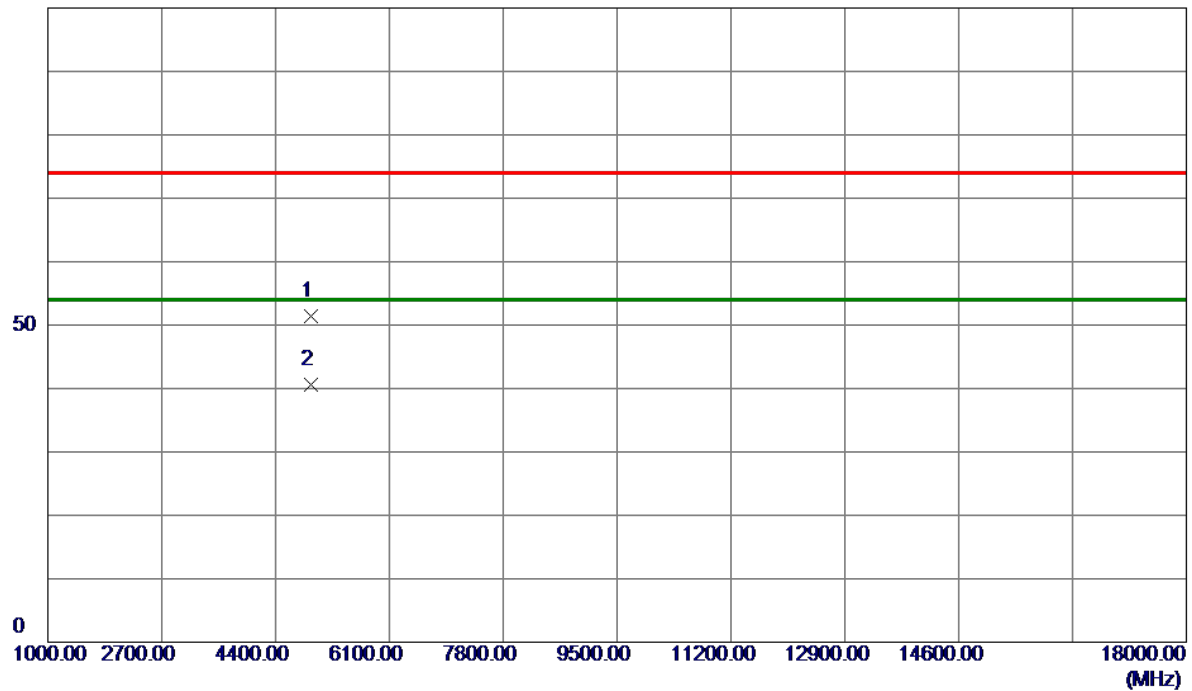
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	53.50	7.70	61.20	74.00	-12.80	Peak	
2	2390.0000	42.56	7.70	50.26	54.00	-3.74	AVG	
3	2434.9000	105.07	7.75	112.82	74.00	38.82	Peak	No Limit
4 *	2435.4000	97.50	7.75	105.25	54.00	51.25	AVG	No Limit
5	2483.5000	56.35	7.81	64.16	74.00	-9.84	Peak	
6	2483.5000	40.08	7.81	47.89	54.00	-6.11	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

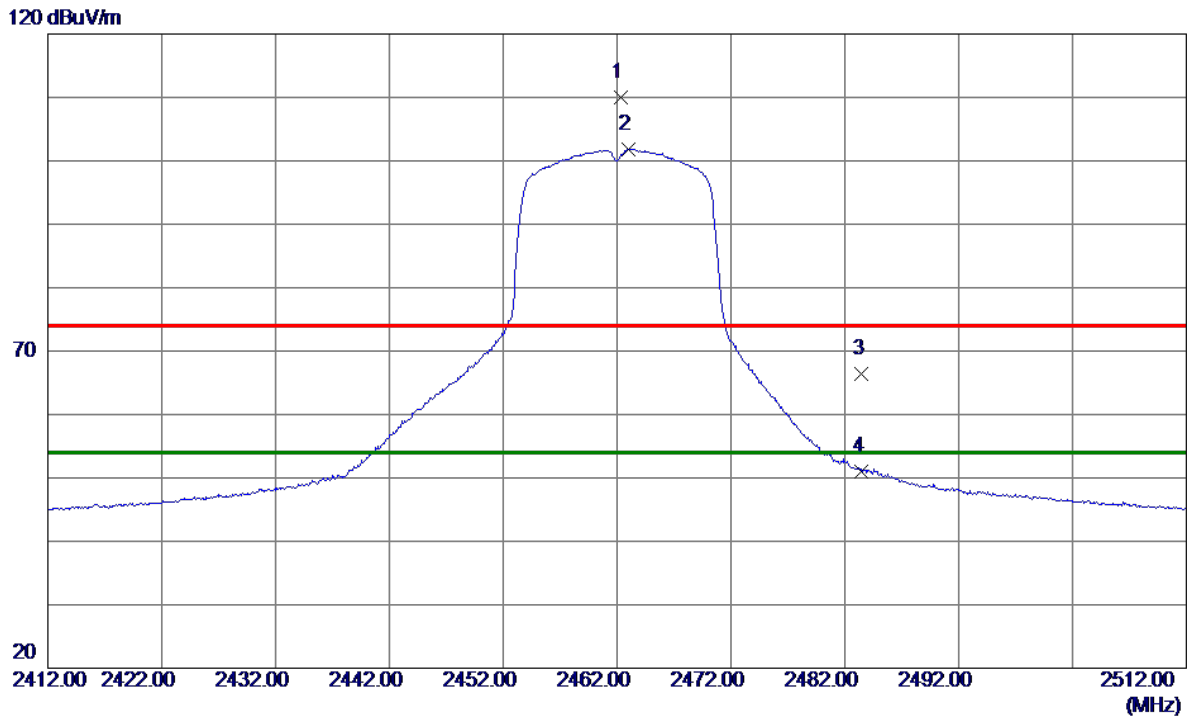


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4926.2000	48.33	3.08	51.41	74.00	-22.59	Peak	
2 *	4922.9500	37.46	3.07	40.53	54.00	-13.47	AVG	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Horizontal
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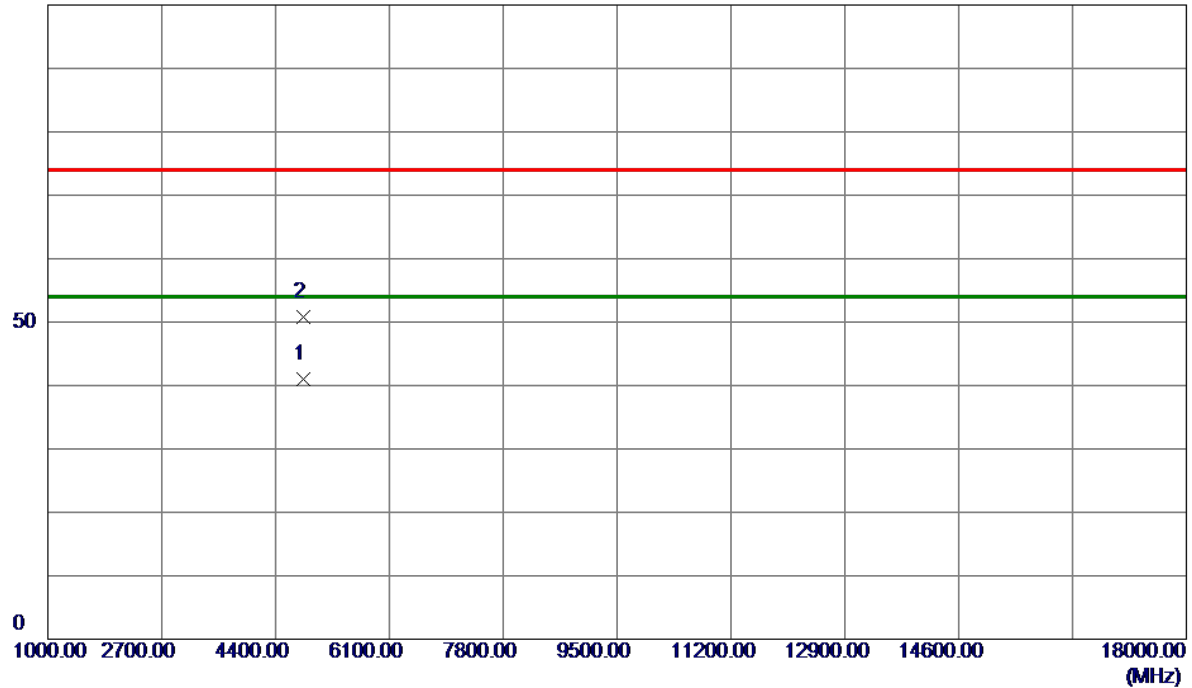
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.3000	102.14	7.78	109.92	74.00	35.92	Peak	No Limit
2 *	2463.0500	94.03	7.79	101.82	54.00	47.82	AVG	No Limit
3	2483.5000	58.65	7.81	66.46	74.00	-7.54	Peak	
4	2483.5000	43.28	7.81	51.09	54.00	-2.91	AVG	

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

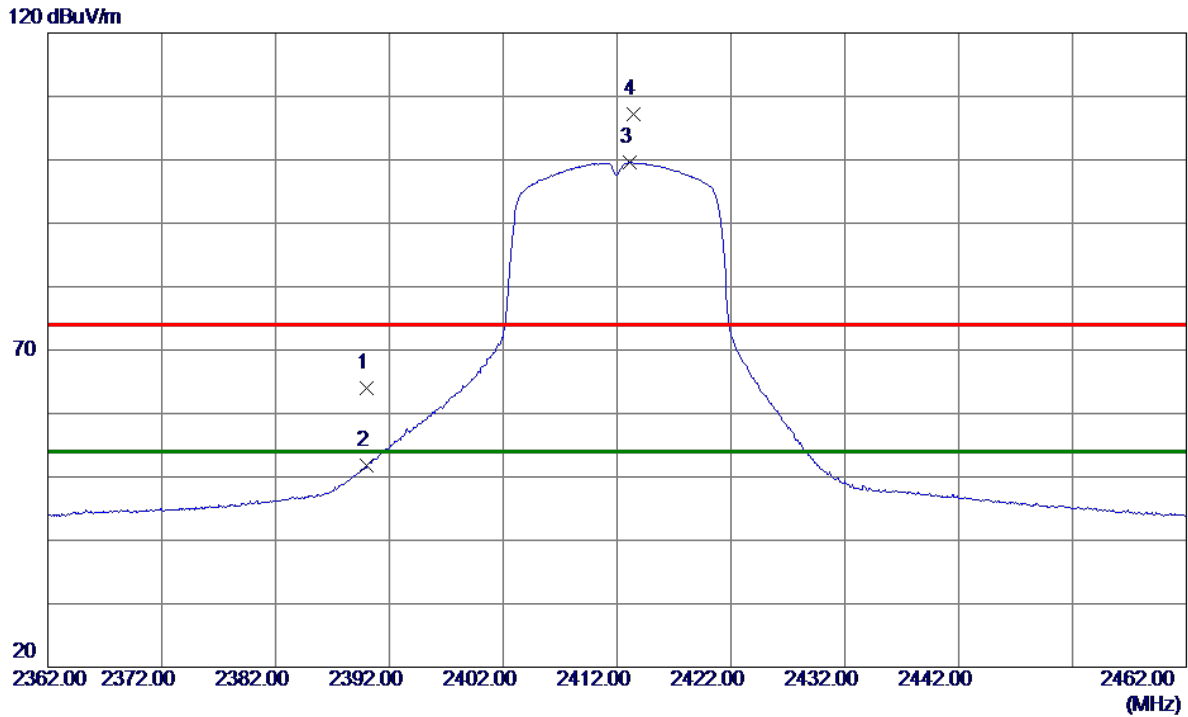


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4822.1000	38.25	2.84	41.09	54.00	-12.91	AVG	
2	4823.6000	47.97	2.84	50.81	74.00	-23.19	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Horizontal
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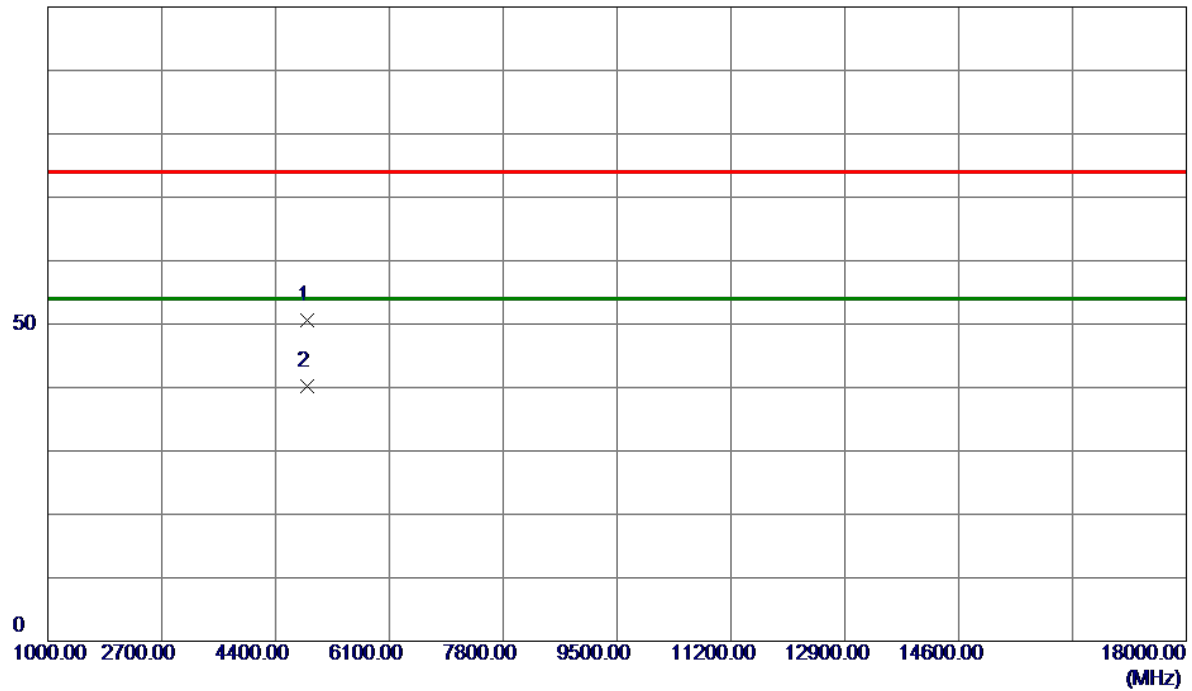
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	56.27	7.70	63.97	74.00	-10.03	Peak	
2	2390.0000	44.16	7.70	51.86	54.00	-2.14	AVG	
3 *	2413.1500	91.79	7.73	99.52	54.00	45.52	AVG	No Limit
4	2413.4500	99.42	7.73	107.15	74.00	33.15	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



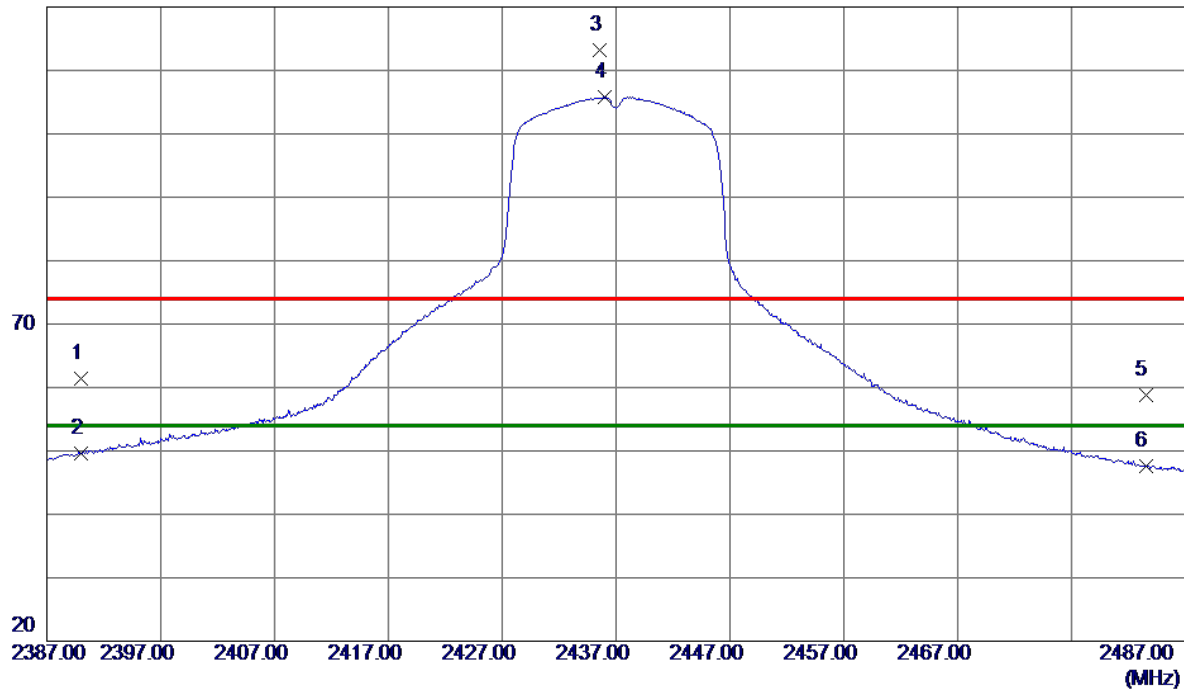
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4872.5000	47.56	2.95	50.51	74.00	-23.49	Peak	
2 *	4874.5000	37.22	2.96	40.18	54.00	-13.82	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Horizontal
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120 dBuV/m



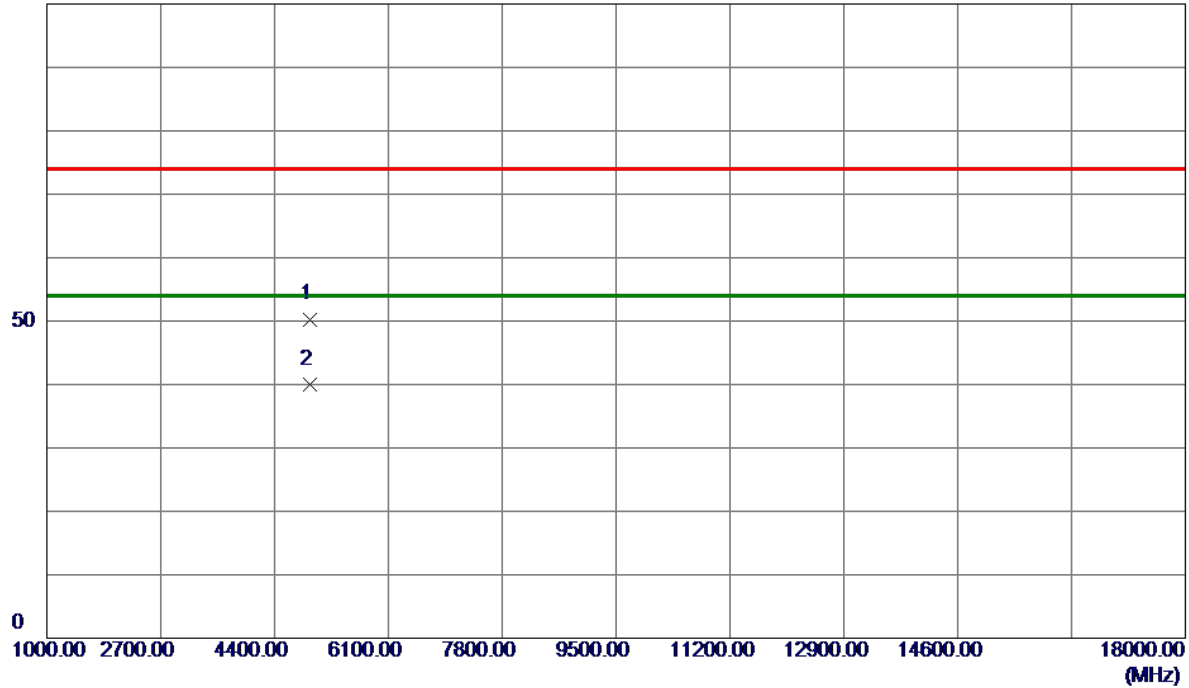
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	53.61	7.70	61.31	74.00	-12.69	Peak	
2	2390.0000	41.86	7.70	49.56	54.00	-4.44	AVG	
3	2435.5500	105.47	7.75	113.22	74.00	39.22	Peak	No Limit
4 *	2436.0500	98.11	7.75	105.86	54.00	51.86	AVG	No Limit
5	2483.5000	51.05	7.81	58.86	74.00	-15.14	Peak	
6	2483.5000	39.79	7.81	47.60	54.00	-6.40	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



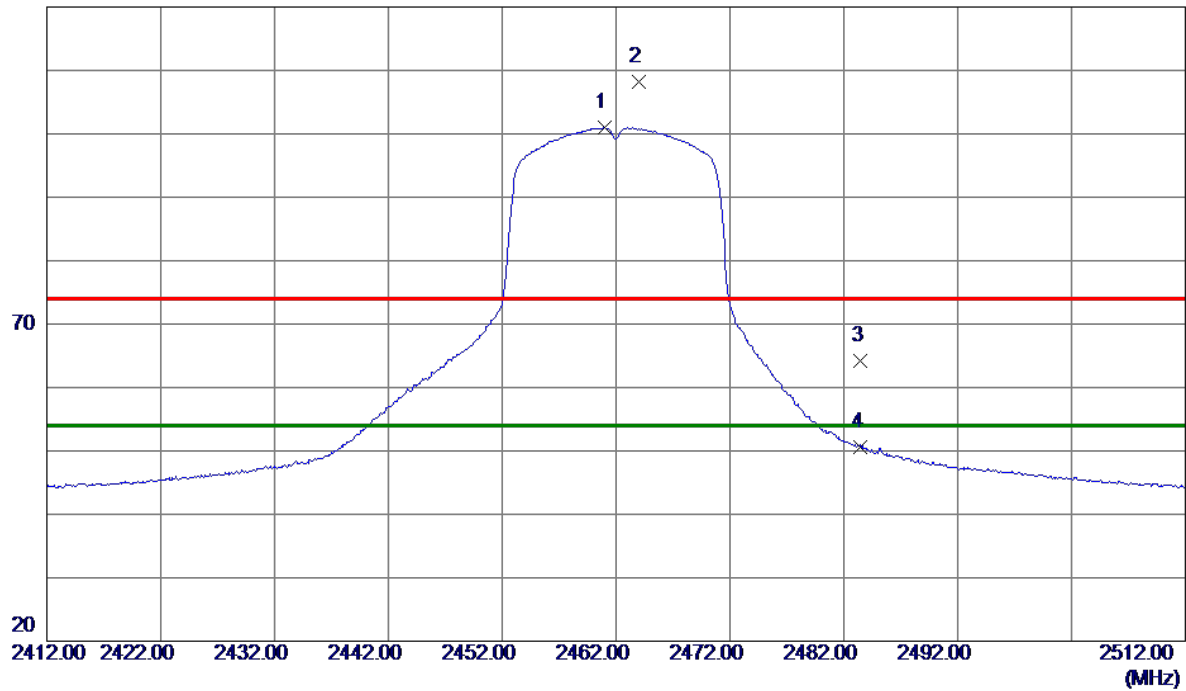
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.1000	47.23	3.07	50.30	74.00	-23.70	Peak	
2 *	4926.3000	36.89	3.08	39.97	54.00	-14.03	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Horizontal
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120 dBuV/m

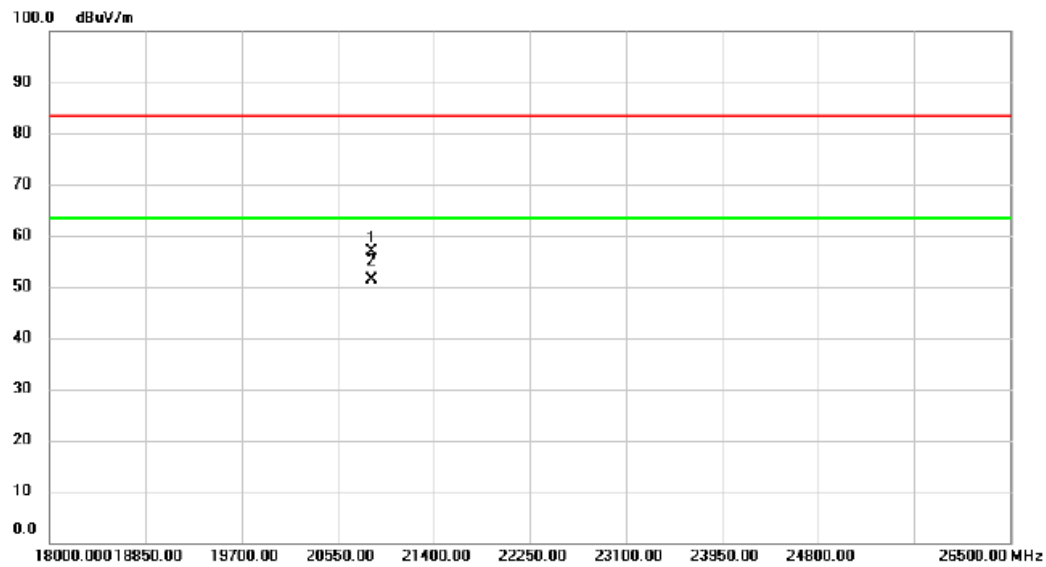


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2460.9500	93.24	7.78	101.02	54.00	47.02	AVG	No Limit
2	2464.0000	100.48	7.79	108.27	74.00	34.27	Peak	No Limit
3	2483.5000	56.45	7.81	64.26	74.00	-9.74	Peak	
4	2483.5000	42.86	7.81	50.67	54.00	-3.33	AVG	

REMARKS:

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

Test Mode	TX G Mode Channel 06	Polarization	Vertical
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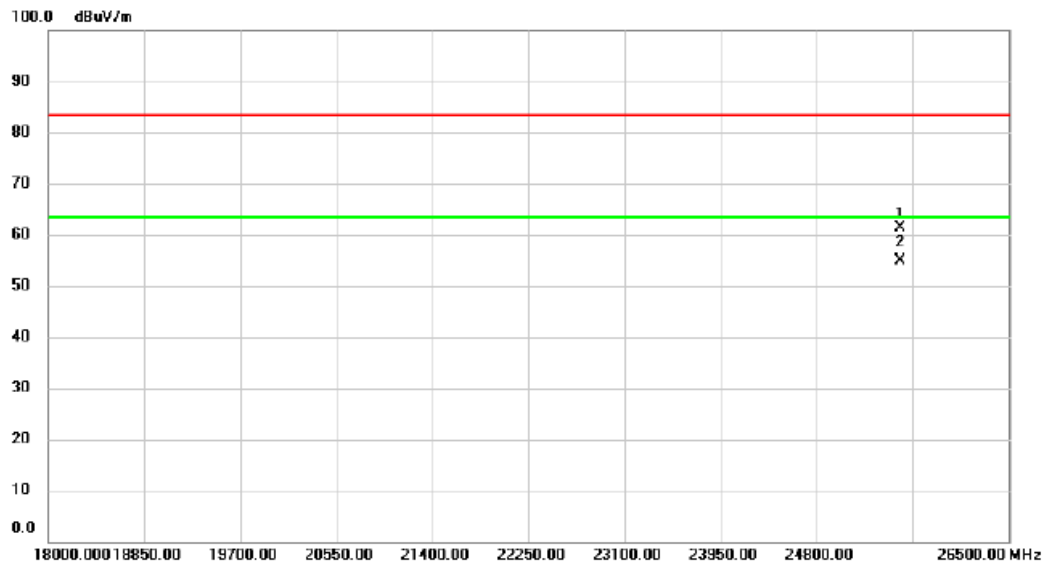


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		20847.500	46.78	10.05	56.83	83.50	-26.67	peak	
2	*	20847.500	41.26	10.05	51.31	63.50	-12.19	AVG	

REMARKS:

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

Test Mode	TX G Mode Channel 06	Polarization	Horizontal
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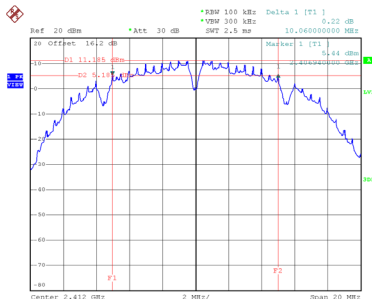
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		25543.750	49.18	12.30	61.48	83.50	-22.02	peak	
2	*	25543.750	42.65	12.30	54.95	63.50	-8.55	AVG	

APPENDIX E - BANDWIDTH

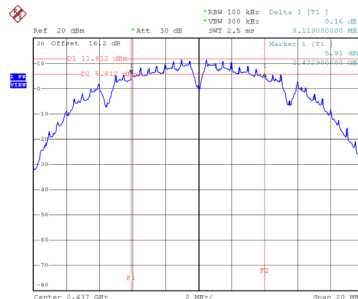
Test Mode	TX B Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	10.060	14.160	0.5	Complies
06	2437	8.119	14.160	0.5	Complies
11	2462	8.560	14.160	0.5	Complies

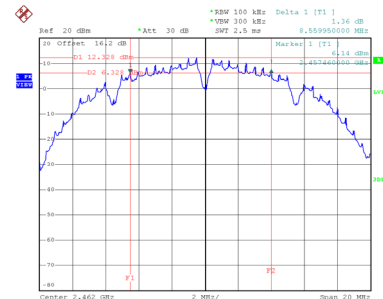
CH01



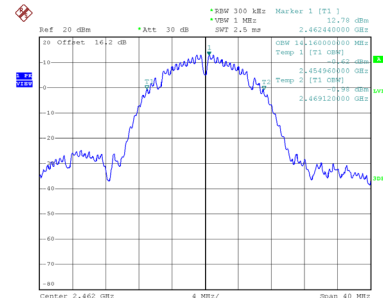
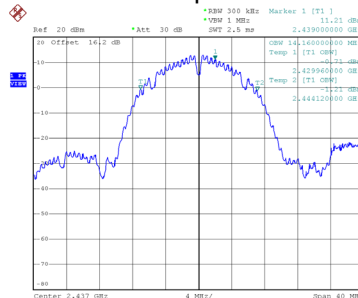
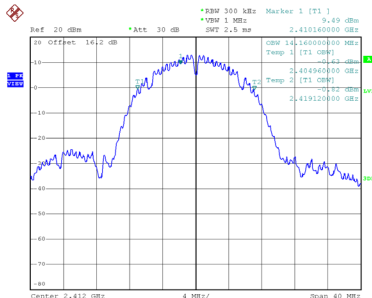
CH06
6 dB Bandwidth



CH11



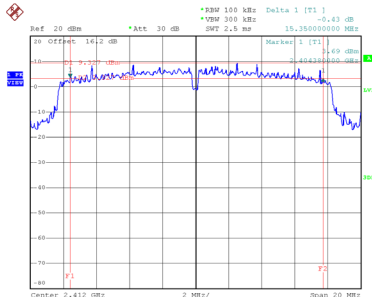
99 % Occupied Bandwidth



Test Mode	TX G Mode
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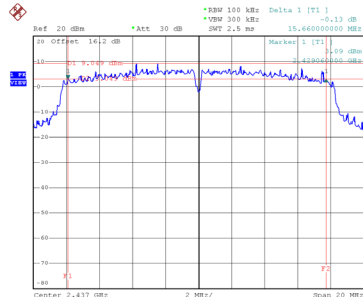
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.350	17.040	0.5	Complies
06	2437	15.660	17.200	0.5	Complies
11	2462	15.100	17.120	0.5	Complies

CH01



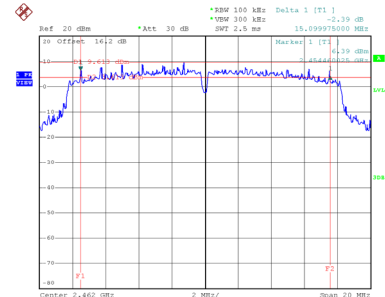
Date: 18.OCT.2024 19:06:18

CH06
6 dB Bandwidth



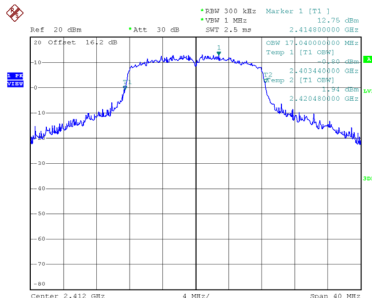
Date: 18.OCT.2024 19:10:54

CH11

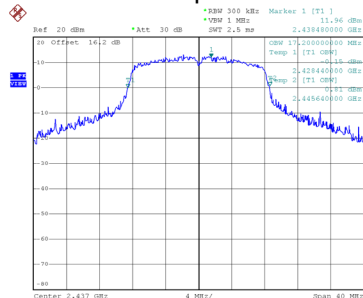


Date: 18.OCT.2024 19:13:25

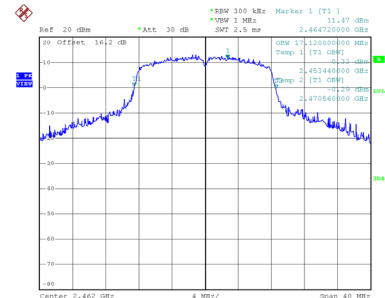
99 % Occupied Bandwidth



Date: 18.OCT.2024 19:06:26



Date: 18.OCT.2024 19:11:02

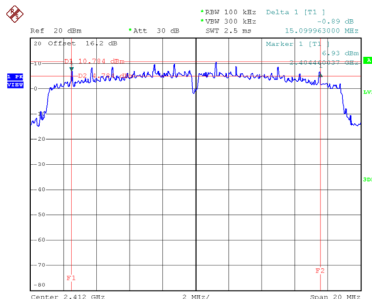


Date: 18.OCT.2024 19:13:33

Test Mode	TX N(HT20) Mode
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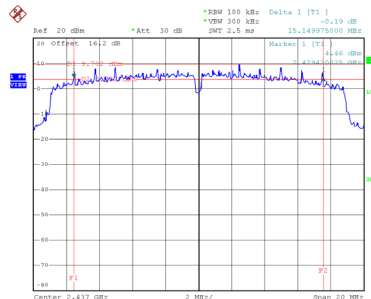
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.100	18.080	0.5	Complies
06	2437	15.150	18.080	0.5	Complies
11	2462	15.120	18.080	0.5	Complies

CH01



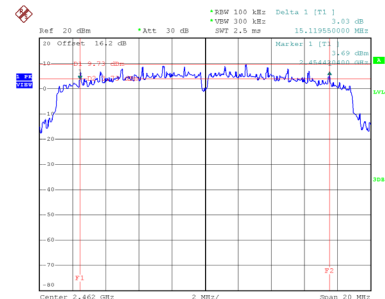
Date: 18.OCT.2024 19:15:33

CH06
6 dB Bandwidth



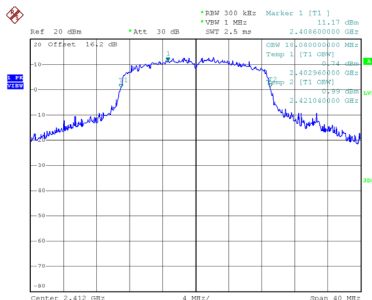
Date: 18.OCT.2024 19:18:52

CH11

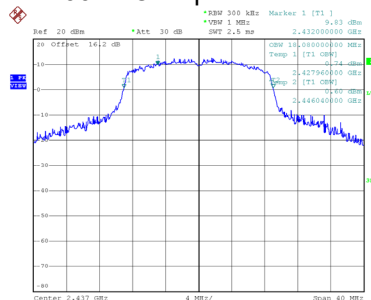


Date: 18.OCT.2024 19:20:35

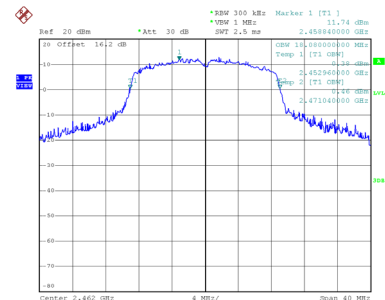
99 % Occupied Bandwidth



Date: 18.OCT.2024 19:15:40



Date: 18.OCT.2024 19:19:00



Date: 18.OCT.2024 19:20:43

APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	TX B Mode_Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	20.04	30.00	1.0000	Complies
06	2437	18.97	30.00	1.0000	Complies
11	2462	20.03	30.00	1.0000	Complies

Test Mode	TX G Mode_Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	25.96	30.00	1.0000	Complies
06	2437	27.81	30.00	1.0000	Complies
11	2462	26.85	30.00	1.0000	Complies

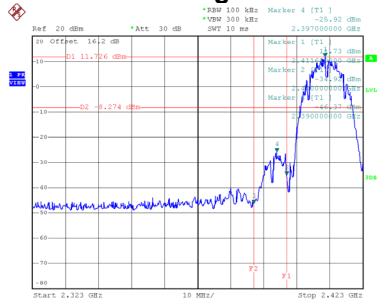
Test Mode	TX N(HT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.97	30.00	1.0000	Complies
06	2437	27.69	30.00	1.0000	Complies
11	2462	25.81	30.00	1.0000	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

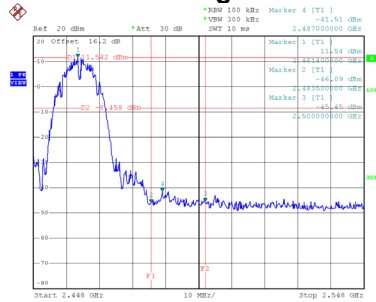
Test Mode TX B Mode_Ant. 1

Bandedge-CH01



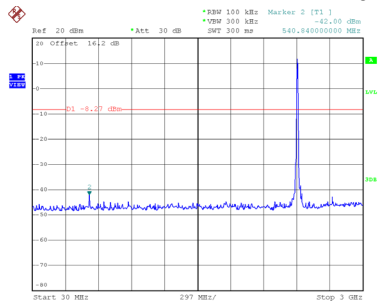
Date: 18.OCT.2024 18:55:57

Bandedge-CH11

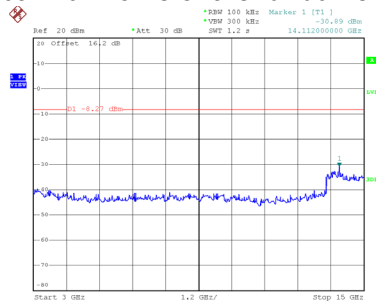


Date: 18.OCT.2024 19:03:59

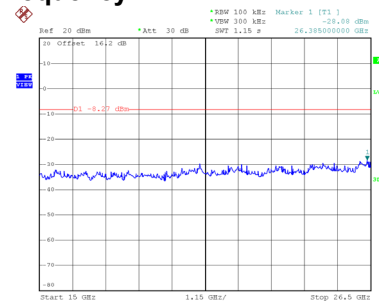
CH01 – 10th Harmonic of the fundamental frequency



Date: 18.OCT.2024 18:56:10

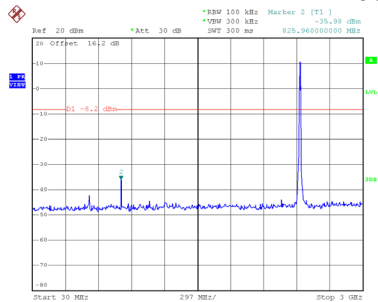


Date: 18.OCT.2024 18:56:19

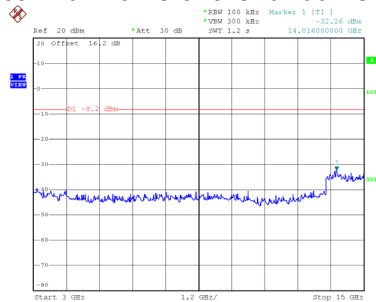


Date: 18.OCT.2024 18:56:27

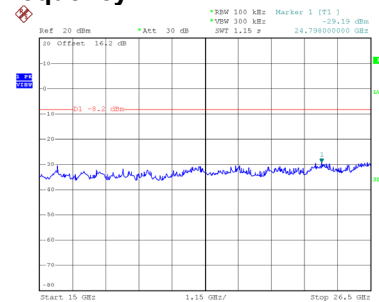
CH06 – 10th Harmonic of the fundamental frequency



Date: 18.OCT.2024 19:22:22

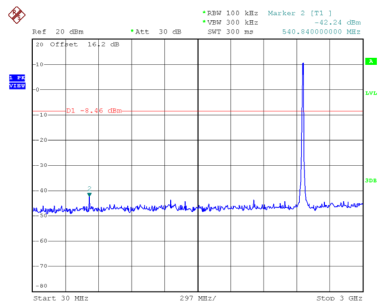


Date: 18.OCT.2024 19:22:31

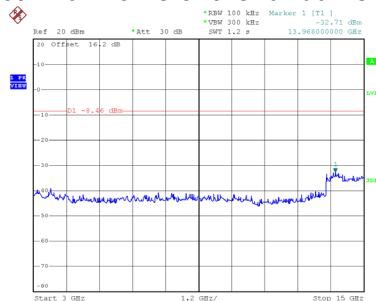


Date: 18.OCT.2024 19:22:39

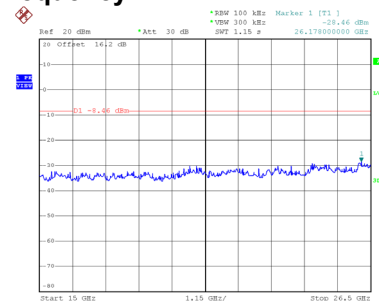
CH11 – 10th Harmonic of the fundamental frequency



Date: 18.OCT.2024 19:04:13



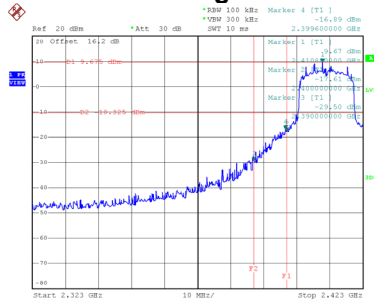
Date: 18.OCT.2024 19:04:21



Date: 18.OCT.2024 19:04:29

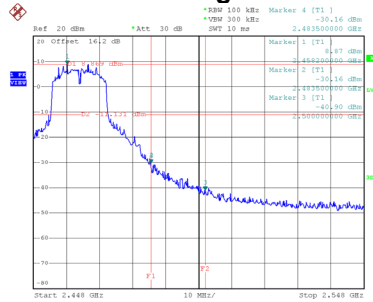
Test Mode TX G Mode_Ant. 1

Bandedge-CH01



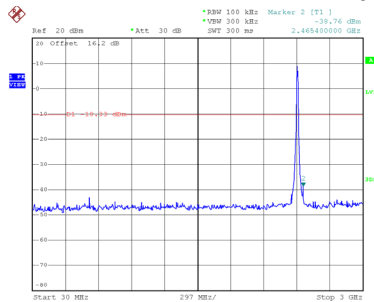
Date: 18.OCT.2024 19:06:34

Bandedge-CH11

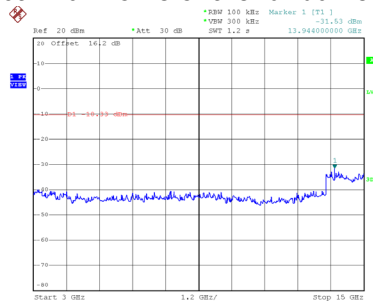


Date: 18.OCT.2024 19:13:40

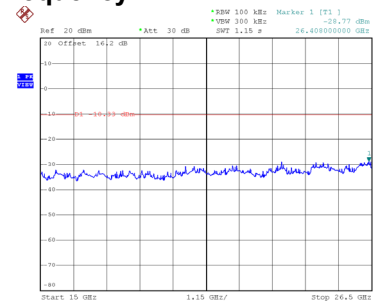
CH01 – 10th Harmonic of the fundamental frequency



Date: 18.OCT.2024 19:06:47

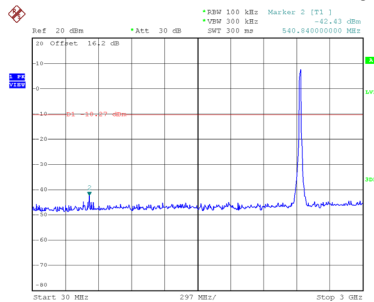


Date: 18.OCT.2024 19:06:56

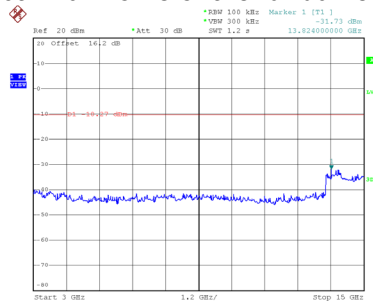


Date: 18.OCT.2024 19:07:04

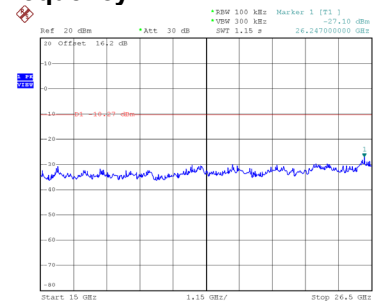
CH06 – 10th Harmonic of the fundamental frequency



Date: 18.OCT.2024 19:24:15

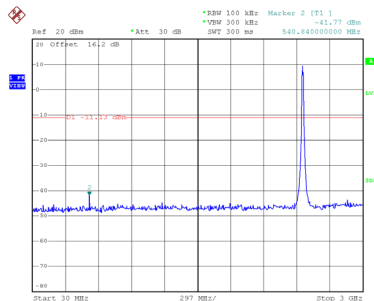


Date: 18.OCT.2024 19:24:23

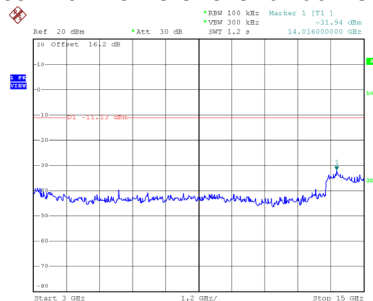


Date: 18.OCT.2024 19:24:31

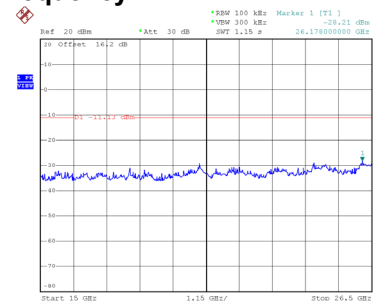
CH11 – 10th Harmonic of the fundamental frequency



Date: 18.OCT.2024 19:13:54



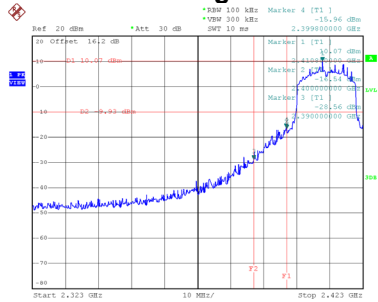
Date: 18.OCT.2024 19:14:02



Date: 18.OCT.2024 19:14:11

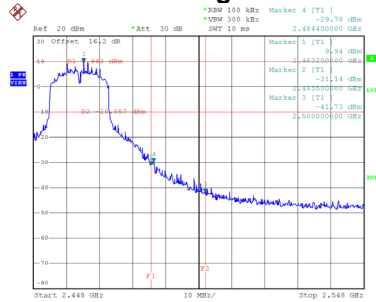
Test Mode TX N(HT20) Mode_Ant. 1

Bandedge-CH01



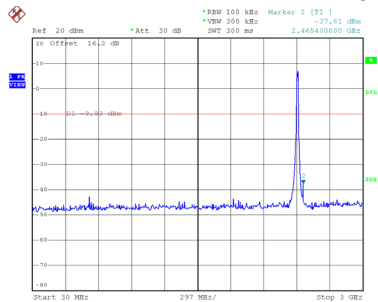
Date: 18.OCT.2024 19:15:47

Bandedge-CH11

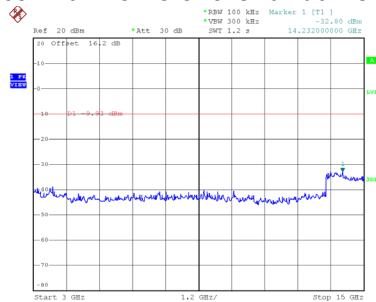


Date: 18.OCT.2024 19:20:51

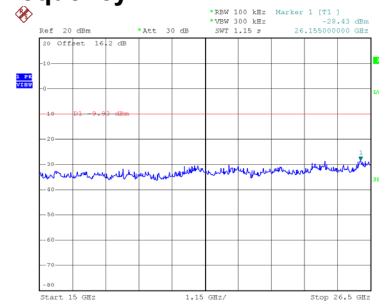
CH01 – 10th Harmonic of the fundamental frequency



Date: 18.OCT.2024 19:16:01

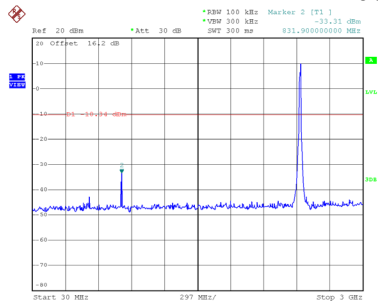


Date: 18.OCT.2024 19:16:08

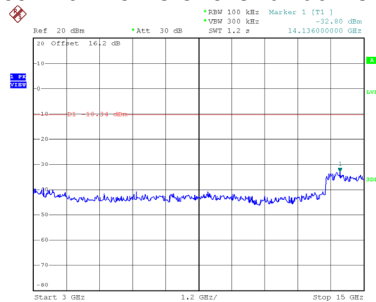


Date: 18.OCT.2024 19:16:15

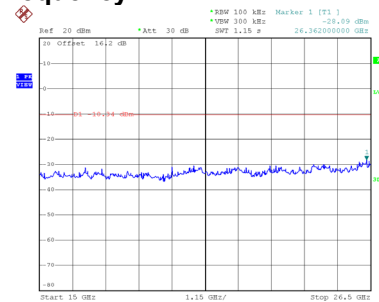
CH06 – 10th Harmonic of the fundamental frequency



Date: 18.OCT.2024 19:19:21

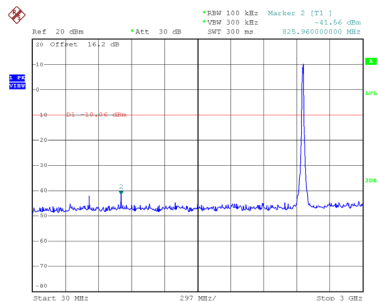


Date: 18.OCT.2024 19:19:30

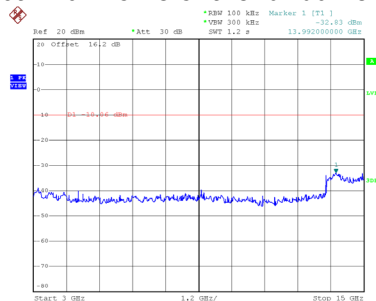


Date: 18.OCT.2024 19:19:38

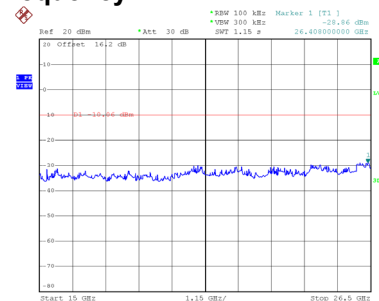
CH11 – 10th Harmonic of the fundamental frequency



Date: 18.OCT.2024 19:21:04



Date: 18.OCT.2024 19:21:13

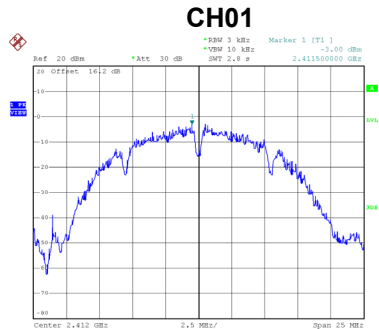


Date: 18.OCT.2024 19:21:21

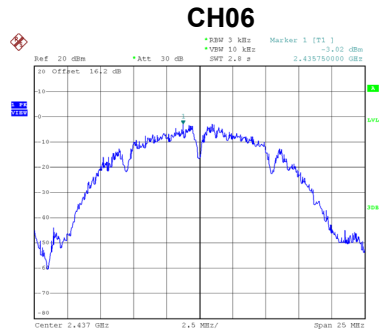
APPENDIX H - POWER SPECTRAL DENSITY

Test Mode	TX B Mode_Ant. 1
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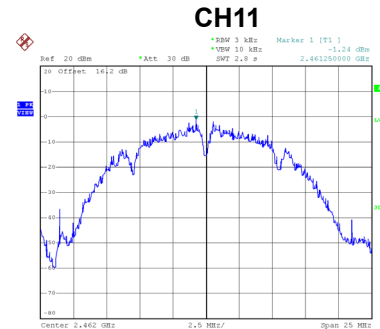
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-3.00	8.00	Complies
06	2437	-3.02	8.00	Complies
11	2462	-1.24	8.00	Complies



Date: 18.OCT.2024 18:56:36



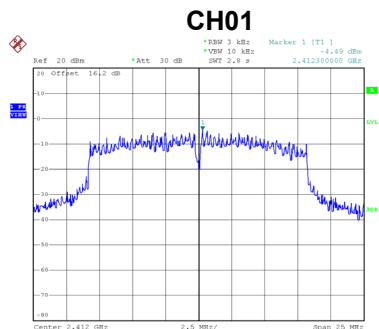
Date: 18.OCT.2024 19:01:45



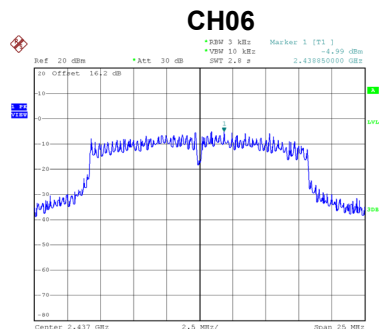
Date: 18.OCT.2024 19:04:38

Test Mode	TX G Mode_Ant. 1
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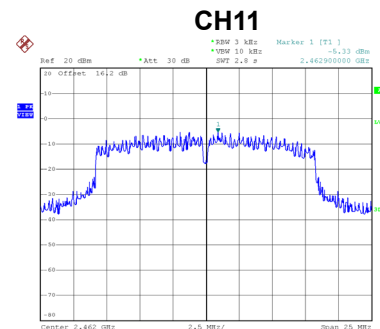
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-4.49	8.00	Complies
06	2437	-4.99	8.00	Complies
11	2462	-5.33	8.00	Complies



Date: 18.OCT.2024 19:07:13



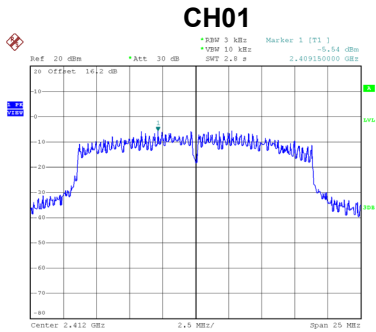
Date: 18.OCT.2024 19:11:49



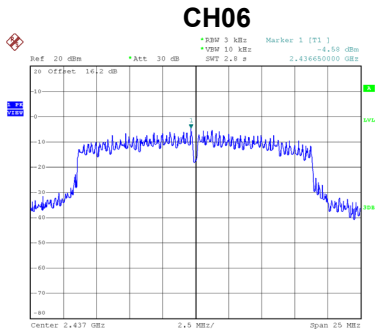
Date: 18.OCT.2024 19:14:20

Test Mode	TX N(HT20) Mode_Ant. 1
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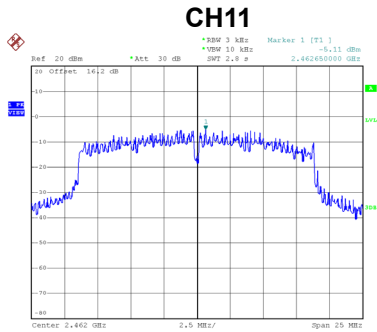
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-5.54	8.00	Complies
06	2437	-4.58	8.00	Complies
11	2462	-5.11	8.00	Complies



Date: 18.OCT.2024 19:16:23



Date: 18.OCT.2024 19:19:47



Date: 18.OCT.2024 19:21:30

End of Test Report