



FCC Radio Test Report

FCC ID: 2BCGWBP1100

This report concerns: Original Grant

Project No. : 2402G032
Equipment : 1) Mini Smart Wi-Fi Plug
2) Mini Smart Wi-Fi Plug, Energy Monitoring
Brand Name : tp-link
Test Model : 1) BP1100
Series Model : 2) Tapo P110M
Applicant : TP-LINK CORPORATION PTE. LTD.
Address : 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Manufacturer : TP-LINK CORPORATION PTE. LTD.
Address : 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Date of Receipt : Feb. 06, 2024
Date of Test : Feb. 19, 2024 ~ Mar. 05, 2024
Issued Date : Jul. 18, 2024
Report Version : R01
Test Sample : Engineering Sample No.: SSL2024020615 for radiated,
SSL2024020617 for others.
Standard(s) : FCC CFR Title 47, Part 15, Subpart C

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

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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**.

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

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

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

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

Limitation

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

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

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2402G032	R00	Original Report.	Apr. 28, 2024	Invalid
BTL-FCCP-2-2402G032	R01	Added the series model: Tapo P110M, only differ in product name, model name and support voltage range which does not affect the test results.	Jul. 18, 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 NVLAP:

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 No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong 523792.

BTL's Registration Number for FCC: 162128

BTL's Designation Number for FCC: CN5042

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-CB01	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
AC Power Line Conducted Emissions	21°C	44%	AC 120V/60Hz	Hayden Chen
Radiated Emissions-9kHz to 30 MHz	23°C	52%	AC 120V/60Hz	Hayden Chen
Radiated Emissions-30MHz to 1000MHz	23°C	41%	AC 120V/60Hz	Jensen Zhou
Radiated Emissions-Above 1000MHz	21-22°C	41-42%	AC 120V/60Hz	Jensen Zhou Allen Tong
Bandwidth	21°C	51%	AC 120V/60Hz	Parker Yang
Maximum Output Power	22-23°C	51-58%	AC 120V/60Hz	Oliver Wang
Conducted Spurious Emissions	21°C	51%	AC 120V/60Hz	Parker Yang
Power Spectral Density	21°C	51%	AC 120V/60Hz	Parker Yang

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	1) Mini Smart Wi-Fi Plug 2) Mini Smart Wi-Fi Plug, Energy Monitoring
Brand Name	tp-link
Test Model	1) BP1100
Series Model	2) Tapo P110M
Model Difference(s)	Only differ in product name, model name and support voltage range
Software Version	1.X
Hardware Version	1.0
Power Source	AC Mains.
Power Rating	100-240V ~ 50/60Hz
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 802.11n(HT20): 18.64 dBm (0.0731 W)

Note:

- 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.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	tp-link	BP1100-ANT1	IFA	N/A	1.14

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 B Mode Channel 01/02/06/10/11
Mode 5	TX G Mode Channel 01/02/06/10/11
Mode 6	TX N(HT20) Mode Channel 01/02/06/10/11
Mode 7	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 7	TX N(HT20) Mode Channel 06

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 7	TX N(HT20) Mode Channel 06

Radiated emissions test- Above 1GHz	
Final Test Mode	Description
Mode 4	TX B Mode Channel 01/02/06/10/11
Mode 5	TX G Mode Channel 01/02/06/10/11
Mode 6	TX N(HT20) Mode Channel 01/02/06/10/11

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 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 1-18GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical and recorded in the test report.
- (5) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.

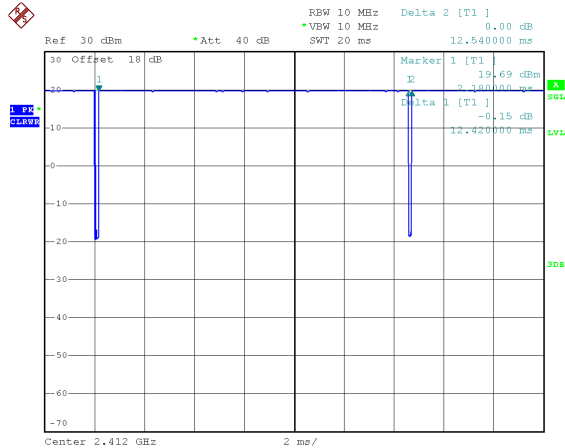
3.3 PARAMETERS OF TEST SOFTWARE

Test Software Version	AmebaZ2_mptool_1V3		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	93	91	91
IEEE 802.11g	109	109	109
IEEE 802.11n(HT20)	109	109	109

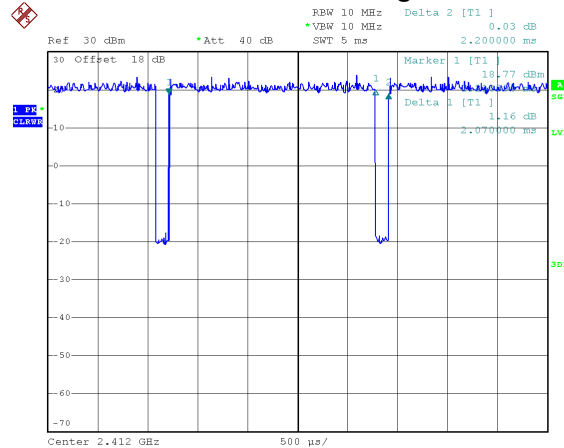
3.4 DUTY CYCLE

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



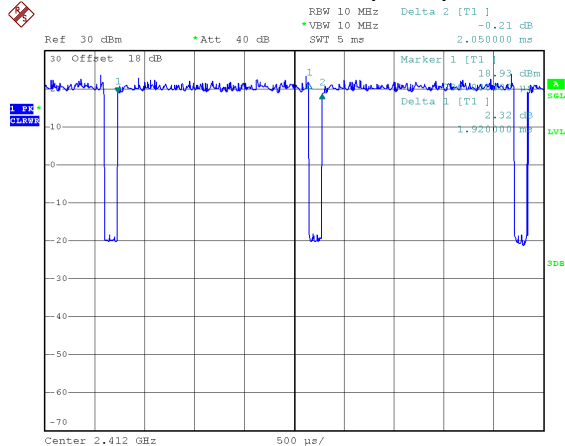
IEEE 802.11g



Date: 24.FEB.2024 15:23:14

Duty cycle = $1.242 \text{ ms} / 1.254 \text{ ms} = 99.04\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.00$

IEEE 802.11n(HT20)



Date: 24.FEB.2024 15:24:01

Duty cycle = $2.070 \text{ ms} / 2.200 \text{ ms} = 94.09\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.26$

Date: 24.FEB.2024 15:24:43

Duty cycle = $1.920 \text{ ms} / 2.050 \text{ ms} = 93.66\%$
 Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.28$

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 483 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 521 Hz.

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

3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.6 SUPPORT UNITS

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

Item	Cable Type	Shielded Type	Ferrite Core	Length
-	-	-	-	-

3.7 CUSTOMER INFORMATION DESCRIPTION

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

4. AC POWER LINE CONDUCTED EMISSIONS

4.1 LIMIT

Frequency of Emission (MHz)	Limit (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.

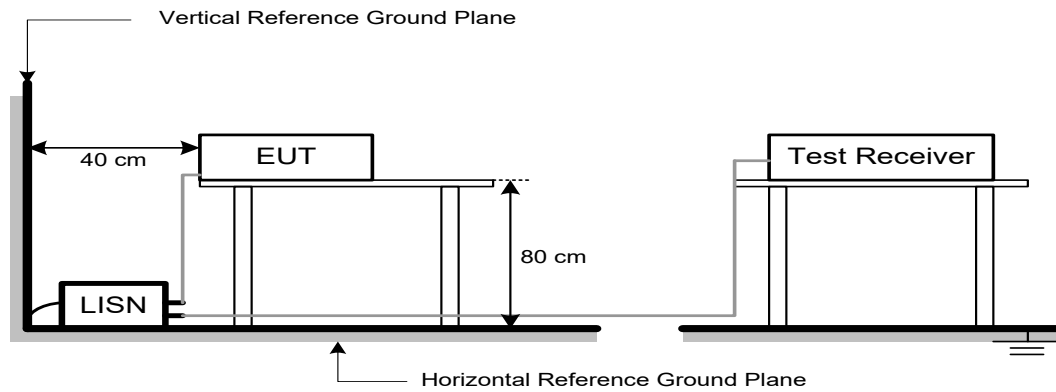
The following table is the setting of the receiver:

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)

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

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

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

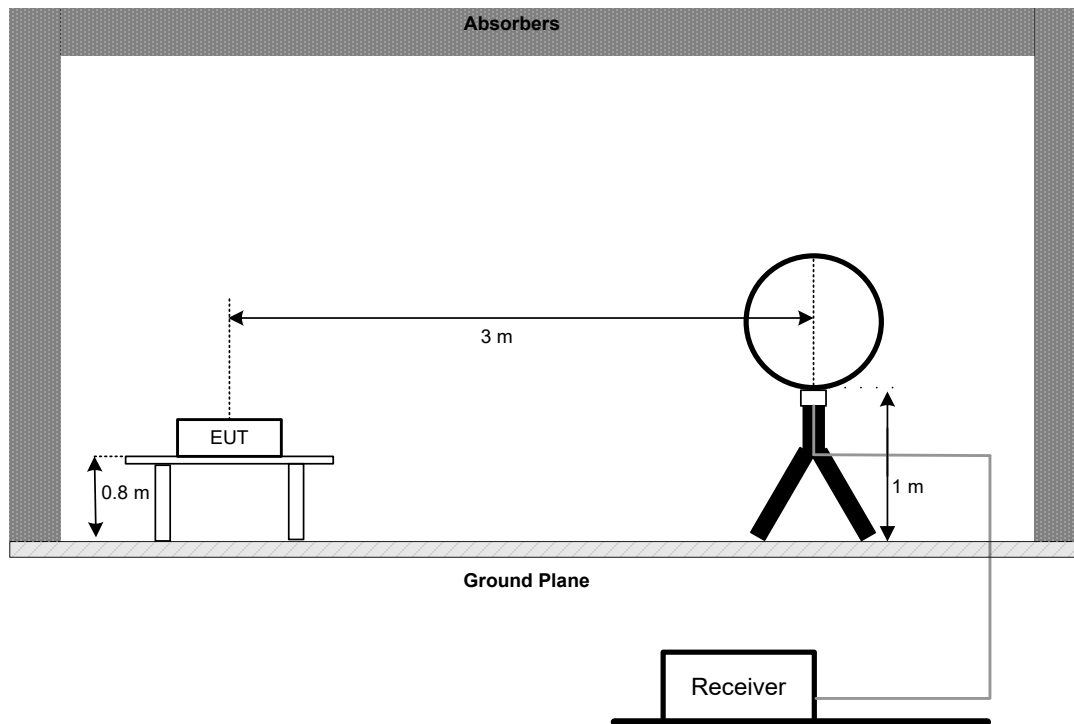
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

5.3 DEVIATION FROM TEST STANDARD

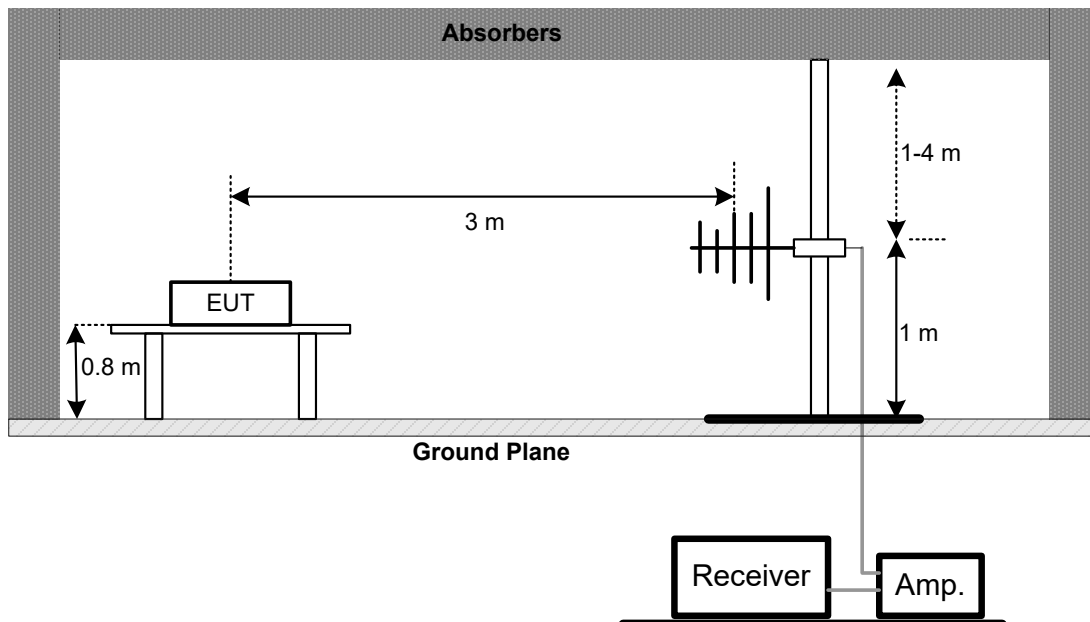
No deviation.

5.4 TEST SETUP

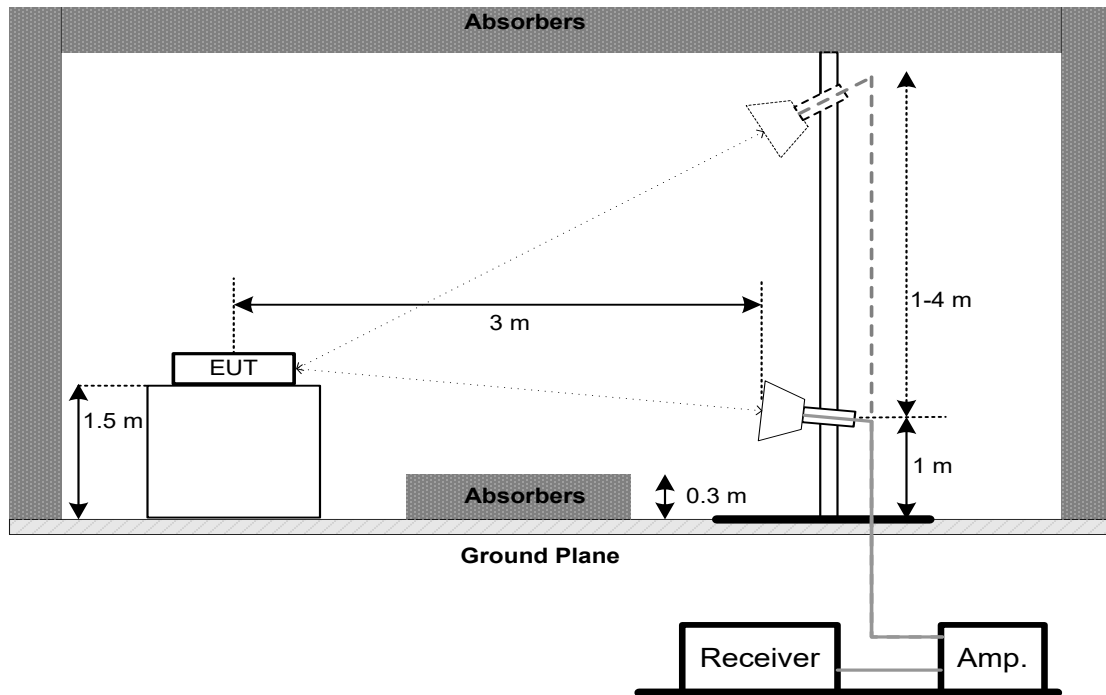
9 kHz to 30 MHz



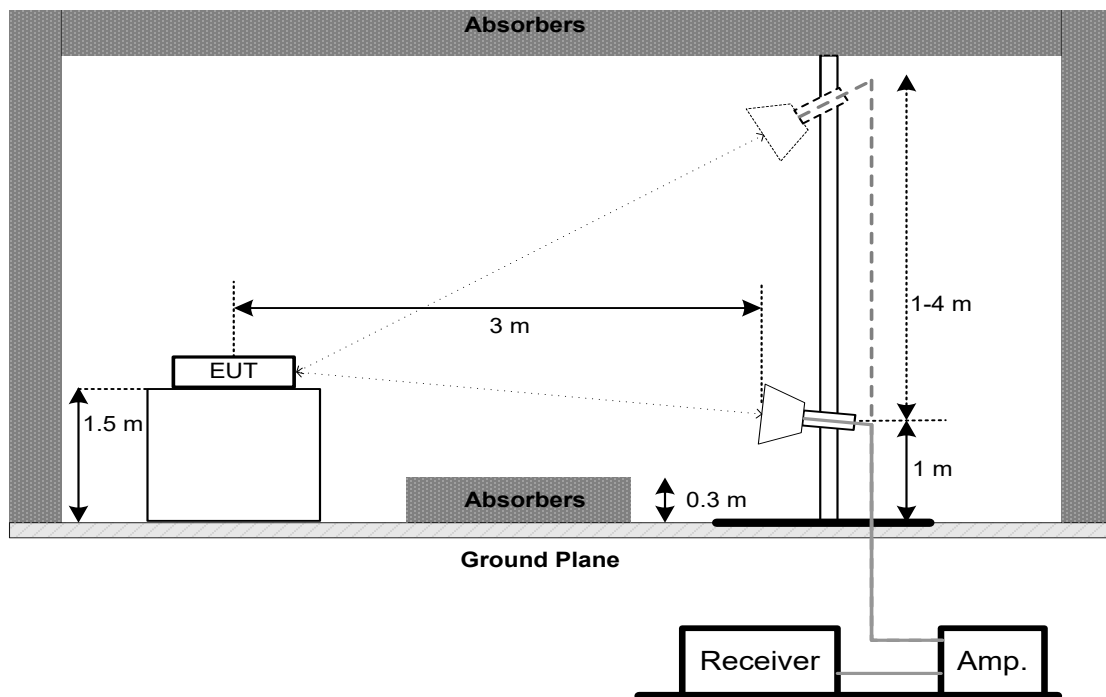
30 MHz to 1 GHz



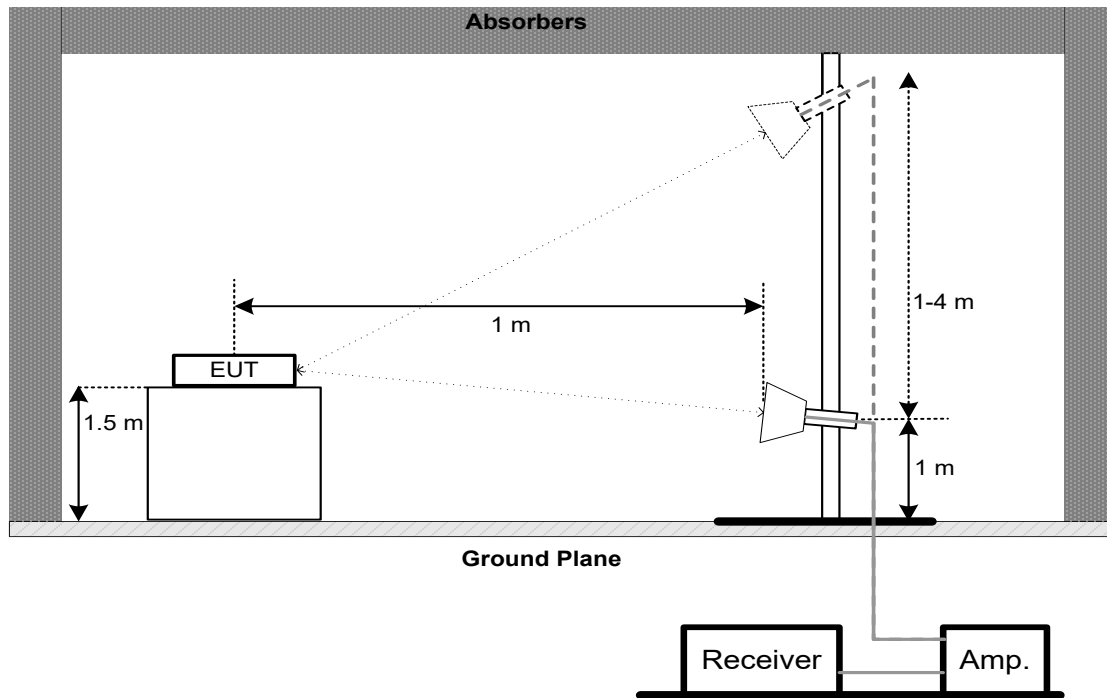
Above 1 GHz Band edge



Harmonic (1 GHz to 18 GHz)



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
VBW	1 MHz
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

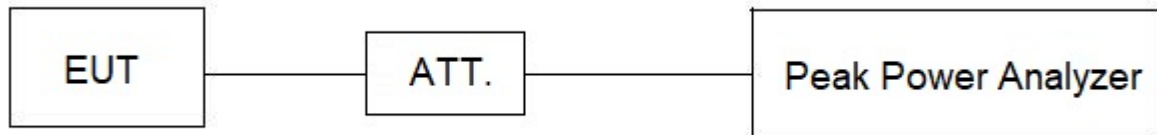
7.2 TEST PROCEDURE

- 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.

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:

For Reference Level:

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

For Emission Level:

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

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 TEST RESULTS

Please refer to the APPENDIX H.

10. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	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-9M-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	Apr. 01, 2024
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 22, 2024
3	Cable	N/A	RW2350-3.8A-NMB M-1.5M	N/A	Jun. 10, 2024
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	966 Chamber room	ETS	9*6*6	N/A	Jul. 11, 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	980863	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	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	Jun. 16, 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	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330 -K	619413	Jul. 06, 2024
9	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 26, 2024
10	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 26, 2024
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 20, 2024
12	966 Chamber room	CM	9*6*6	N/A	May 17, 2024
13	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
15	Filter	STI	STI15-9912	N/A	Jun. 16, 2024
16	Positioning Controller	MF	MF-7802	N/A	N/A
17	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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	Jun. 16, 2024
2	Attenuator	Talent Microwave	TA10A0-S-26.5	N/A	N/A
3	Attenuator	Talent Microwave	TA10A0-S-26.5	N/A	N/A
4	DC Block	N/A	N/A	N/A	N/A
5	Measurement Software	BTL	BTL Conducted Test	N/A	N/A

Maximum Output Power

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

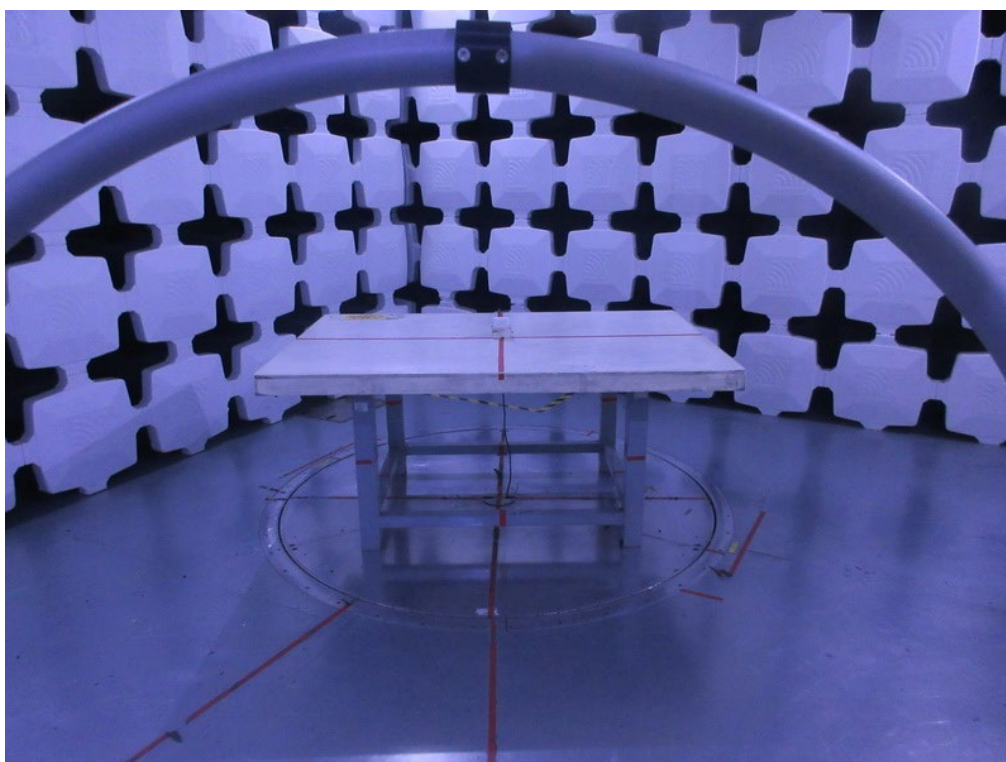
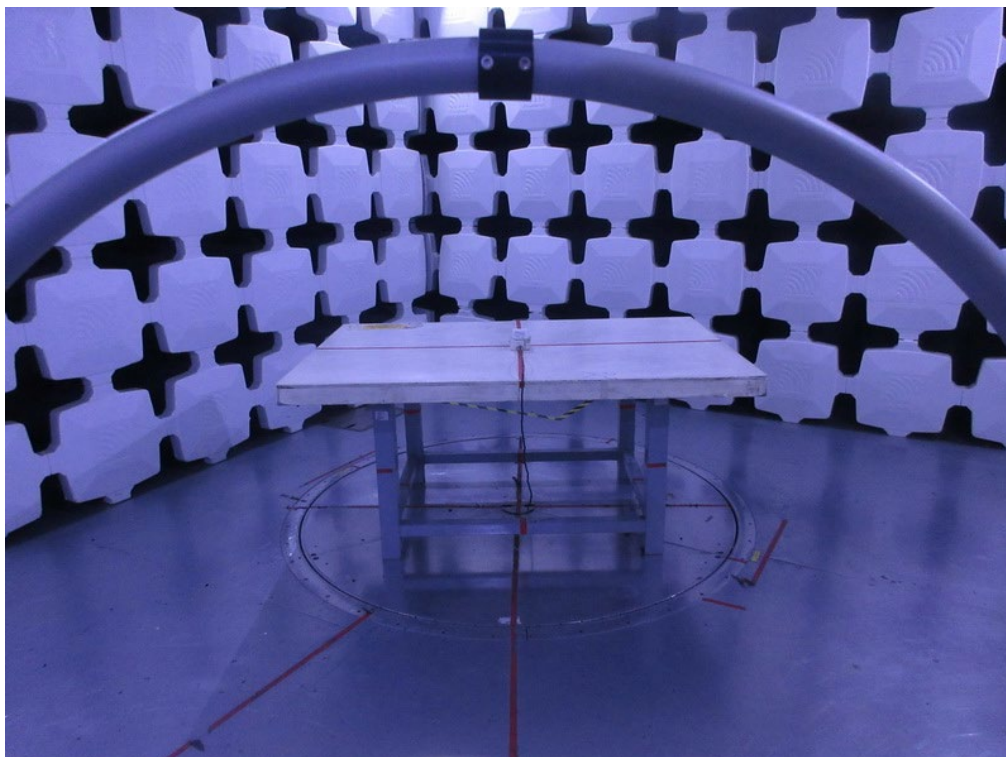
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

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

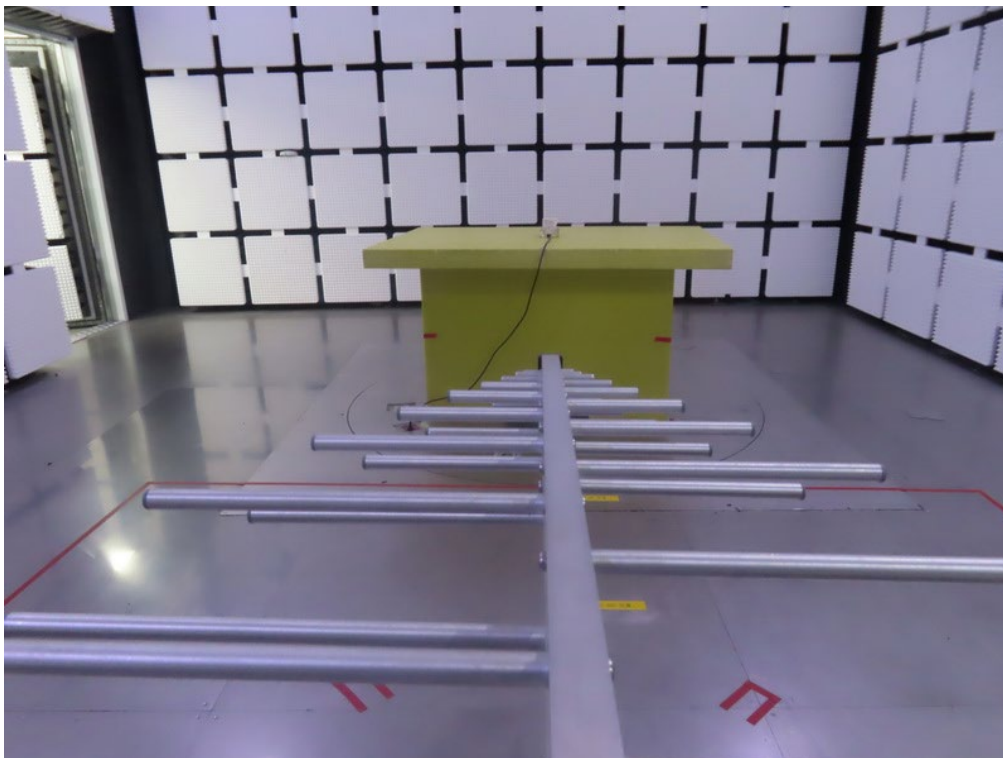
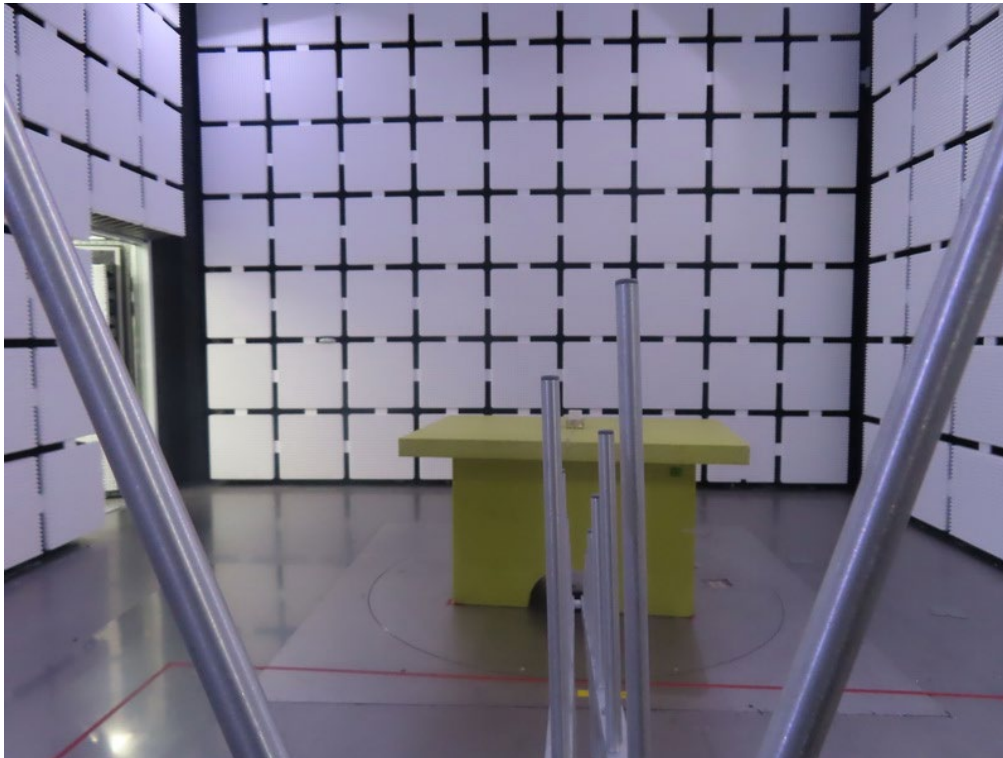
Radiated Emissions Test Photos

9 kHz to 30 MHz

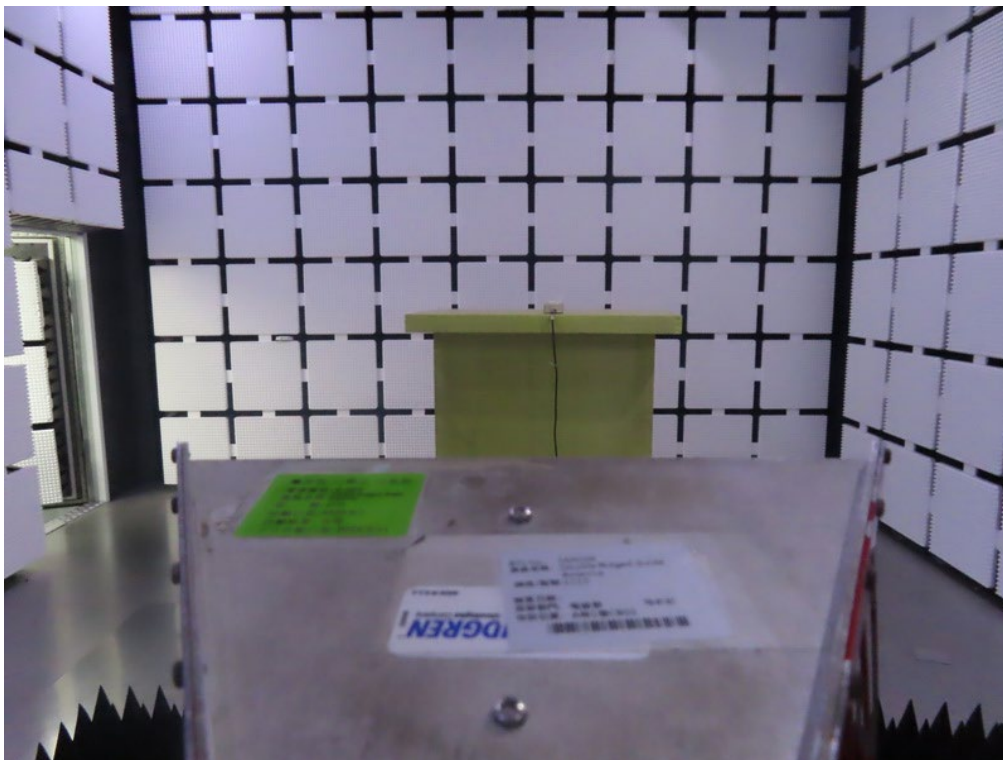
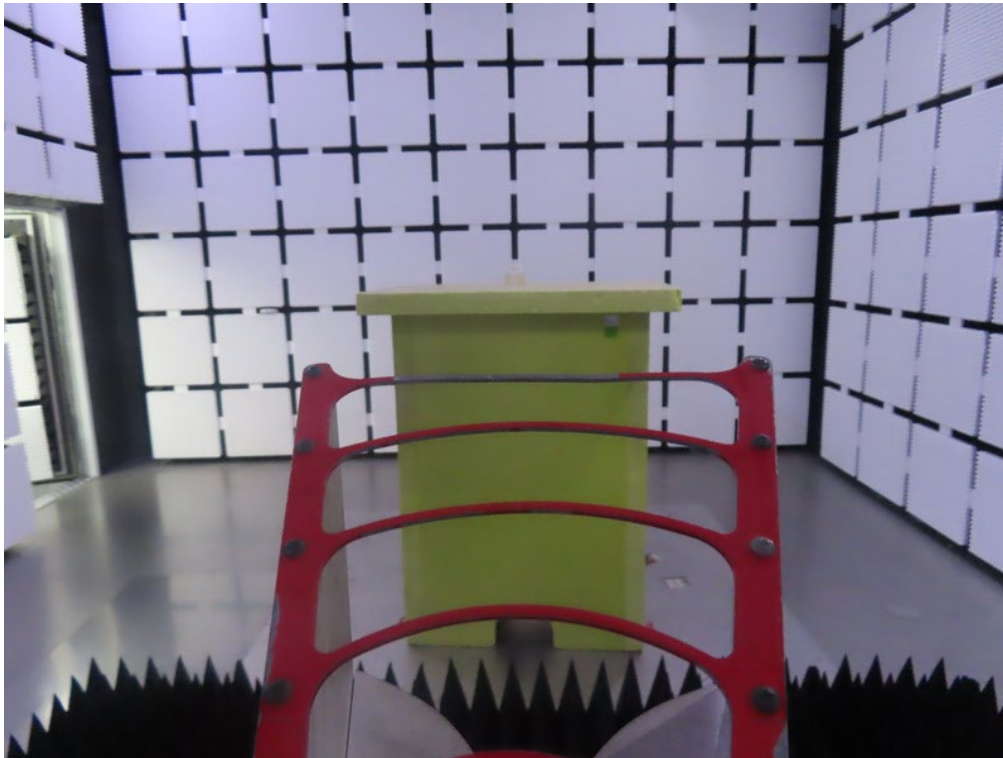


Radiated Emissions Test Photos

30 MHz to 1 GHz

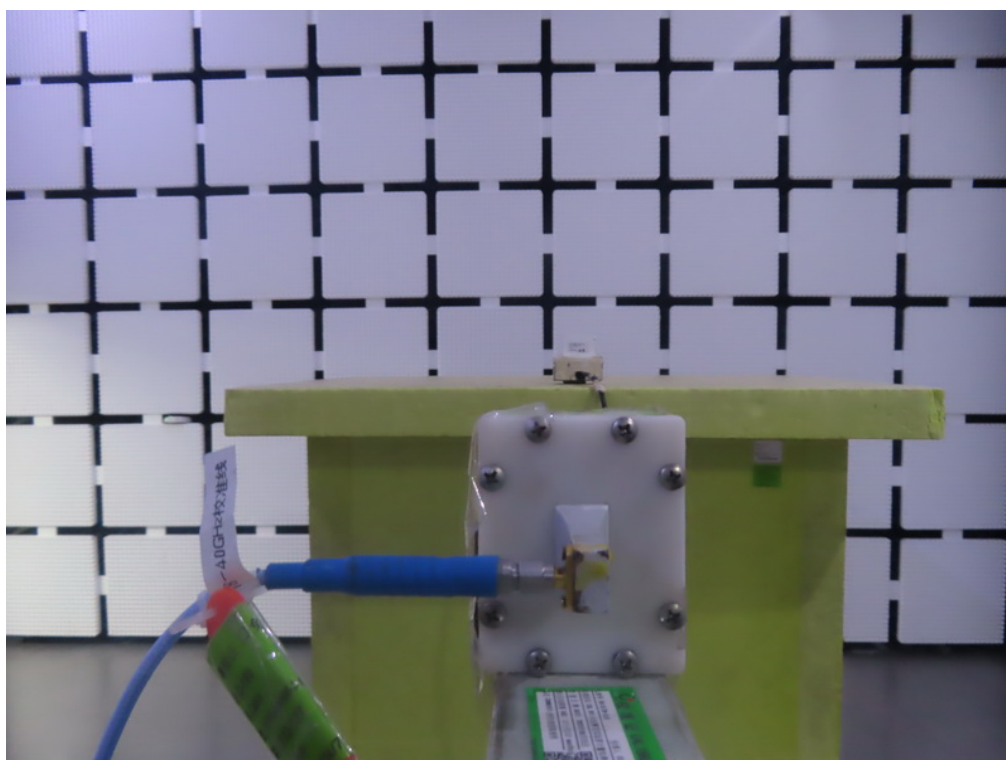
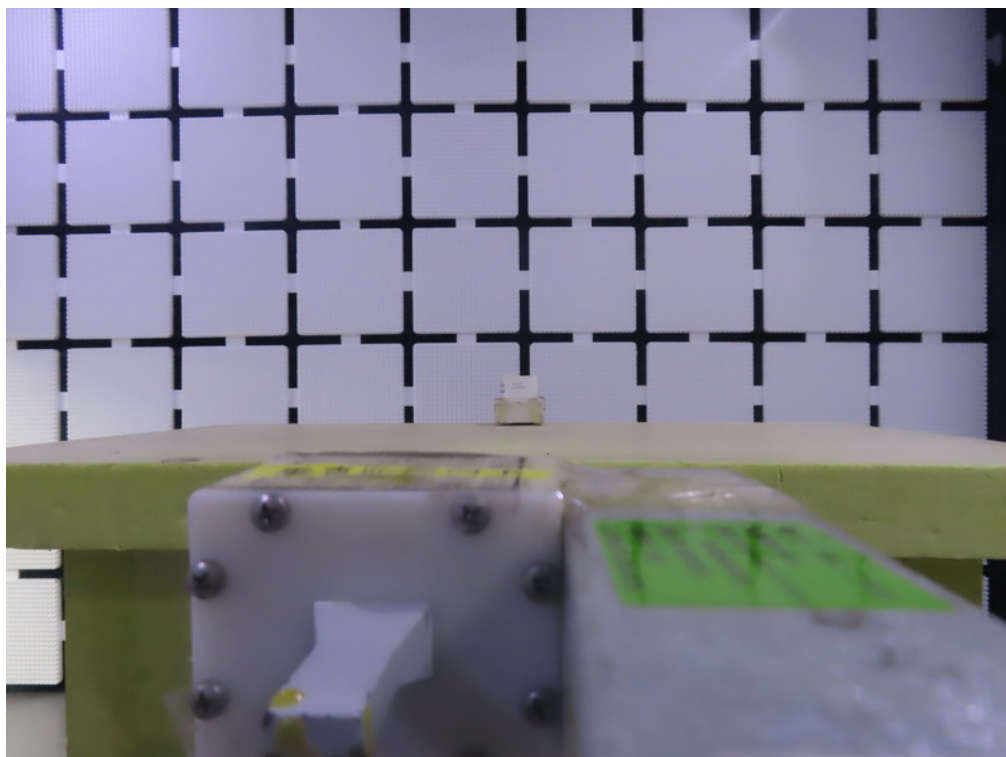


Radiated Emissions Test Photos
Band edges & Harmonic 1 GHz-18 GHz

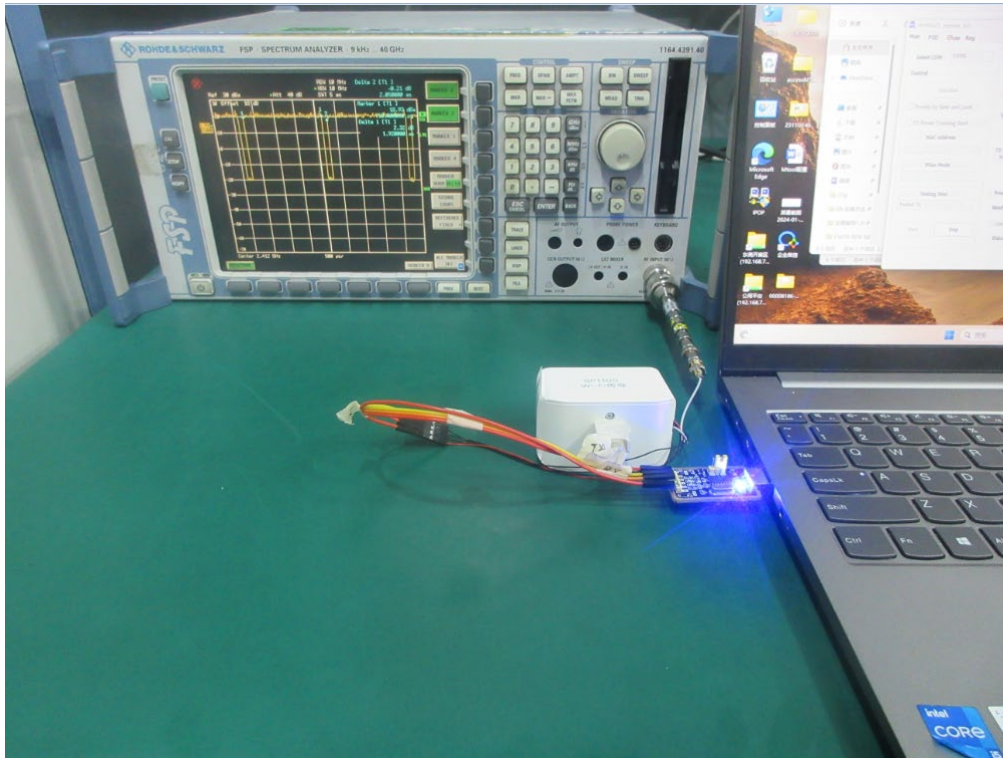


Radiated Emissions Test Photos

Harmonic 18 GHz-26.5 GHz

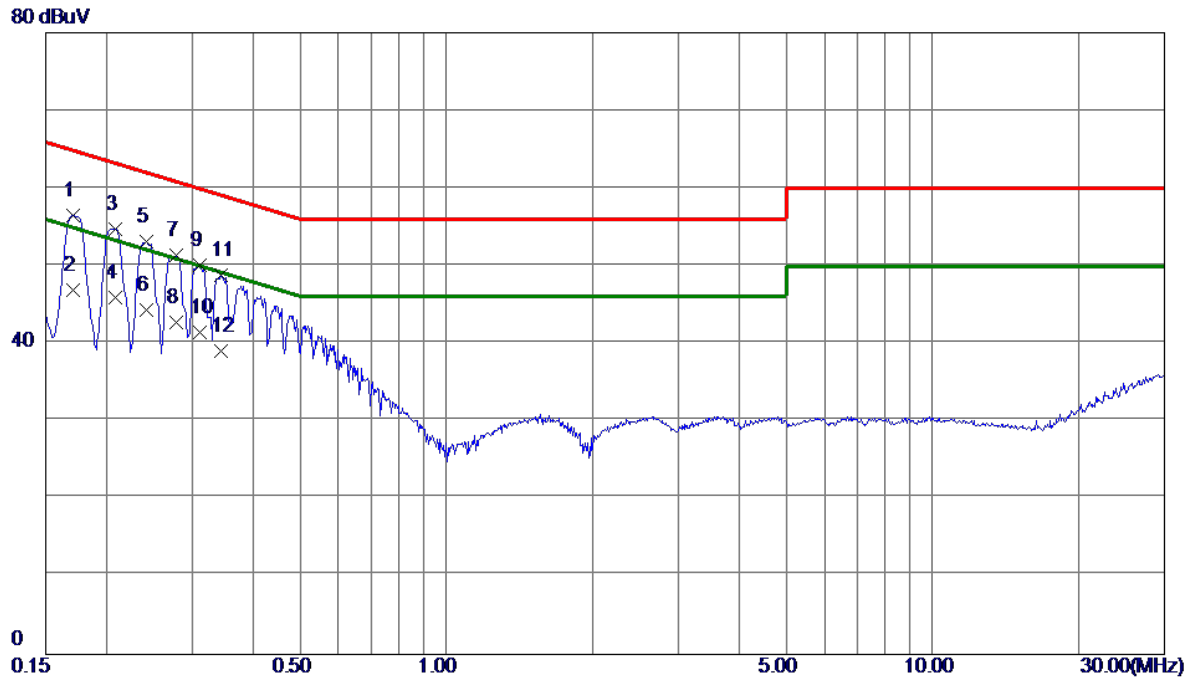


Conducted Test Photos



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

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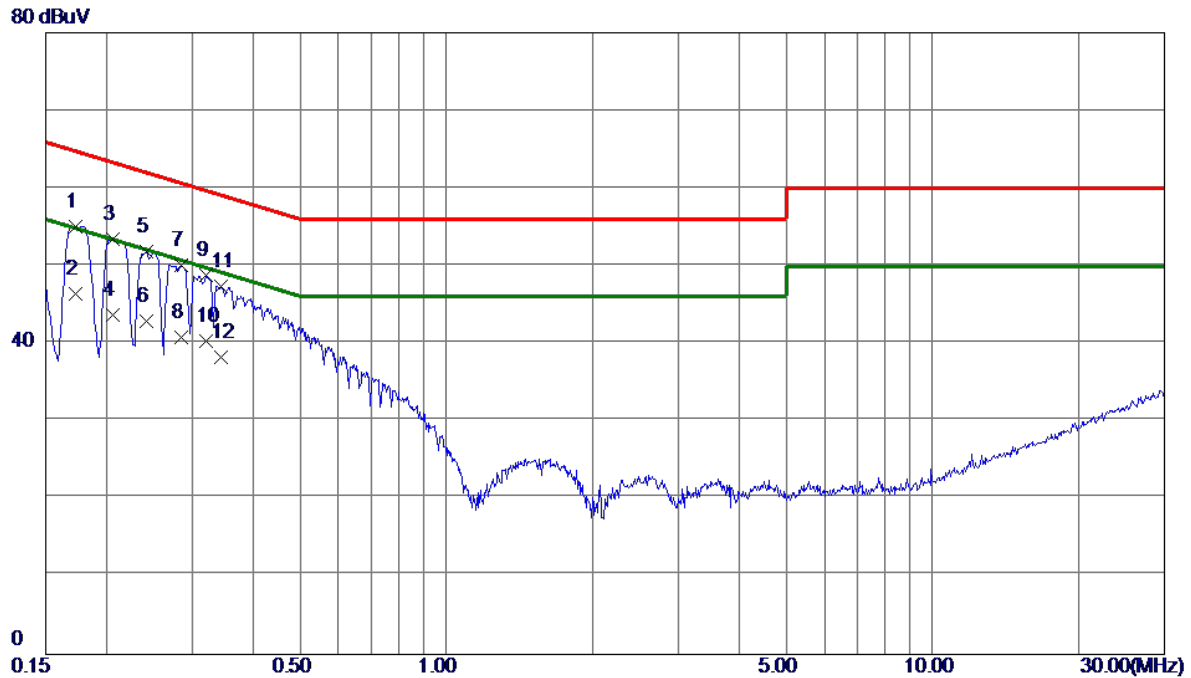


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1703	46.80	9.74	56.54	64.95	-8.41	QP	
2	0.1703	37.20	9.74	46.94	54.95	-8.01	AVG	
3	0.2085	45.04	9.74	54.78	63.26	-8.48	QP	
4 *	0.2085	36.10	9.74	45.84	53.26	-7.42	AVG	
5	0.2423	43.31	9.75	53.06	62.02	-8.96	QP	
6	0.2423	34.50	9.75	44.25	52.02	-7.77	AVG	
7	0.2782	41.60	9.76	51.36	60.87	-9.51	QP	
8	0.2782	32.91	9.76	42.67	50.87	-8.20	AVG	
9	0.3120	40.31	9.77	50.08	59.92	-9.84	QP	
10	0.3120	31.70	9.77	41.47	49.92	-8.45	AVG	
11	0.3435	38.96	9.77	48.73	59.12	-10.39	QP	
12	0.3435	29.30	9.77	39.07	49.12	-10.05	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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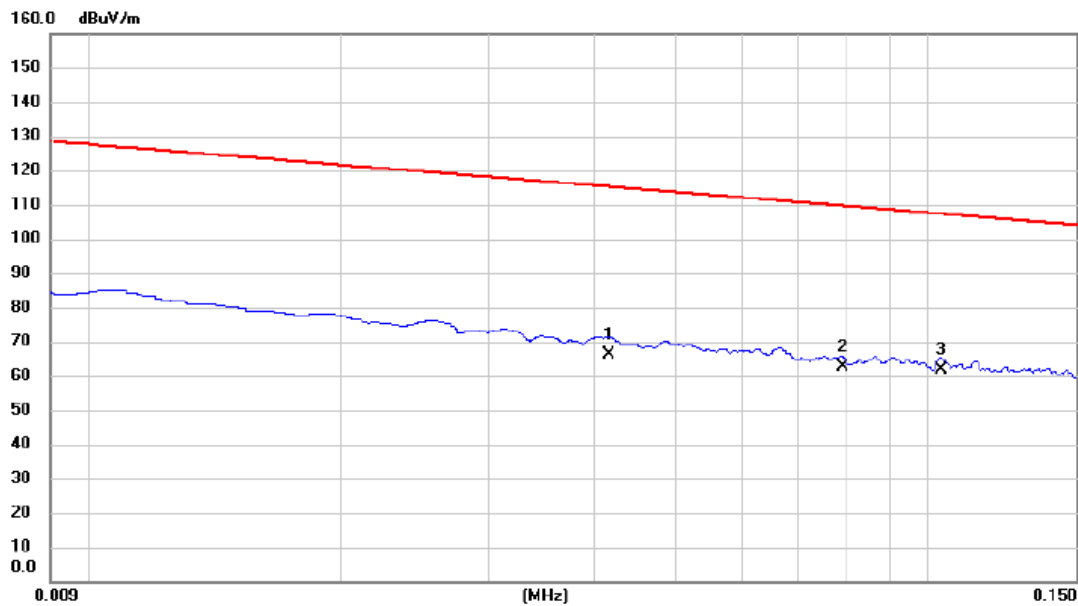
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1725	45.50	9.59	55.09	64.84	-9.75	QP	
2 *	0.1725	36.80	9.59	46.39	54.84	-8.45	AVG	
3	0.2063	43.84	9.60	53.44	63.35	-9.91	QP	
4	0.2063	34.10	9.60	43.70	53.35	-9.65	AVG	
5	0.2423	42.16	9.61	51.77	62.02	-10.25	QP	
6	0.2423	33.30	9.61	42.91	52.02	-9.11	AVG	
7	0.2850	40.52	9.63	50.15	60.67	-10.52	QP	
8	0.2850	31.20	9.63	40.83	50.67	-9.84	AVG	
9	0.3209	39.10	9.63	48.73	59.68	-10.95	QP	
10	0.3209	30.70	9.63	40.33	49.68	-9.35	AVG	
11	0.3435	37.76	9.64	47.40	59.12	-11.72	QP	
12	0.3435	28.60	9.64	38.24	49.12	-10.88	AVG	

REMARKS:

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

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

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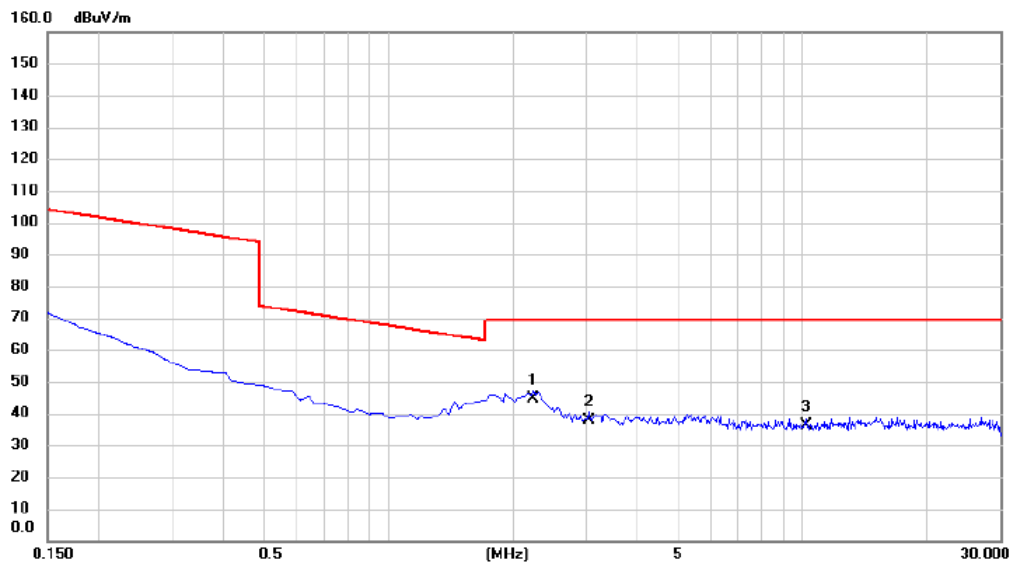


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0416	46.51	19.80	66.31	115.22	-48.91	AVG	
2		0.0790	42.54	19.90	62.44	109.65	-47.21	AVG	
3	*	0.1036	41.84	19.83	61.67	107.30	-45.63	QP	

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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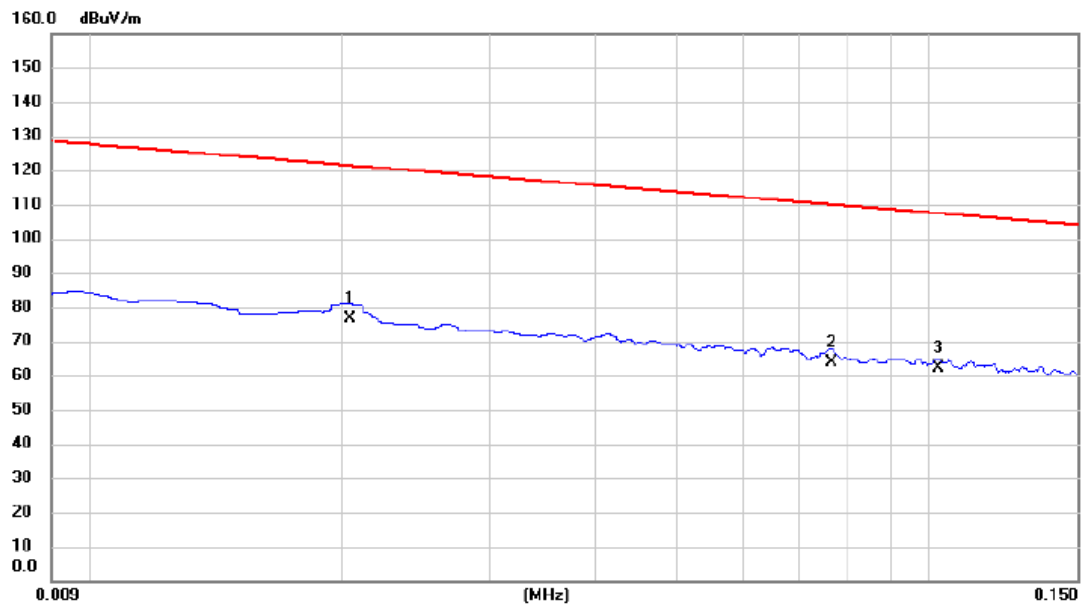


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2.2395	24.61	19.81	44.42	69.54	-25.12	QP	
2		3.0455	17.86	19.87	37.73	69.54	-31.81	QP	
3		10.2094	15.94	20.21	36.15	69.54	-33.39	QP	

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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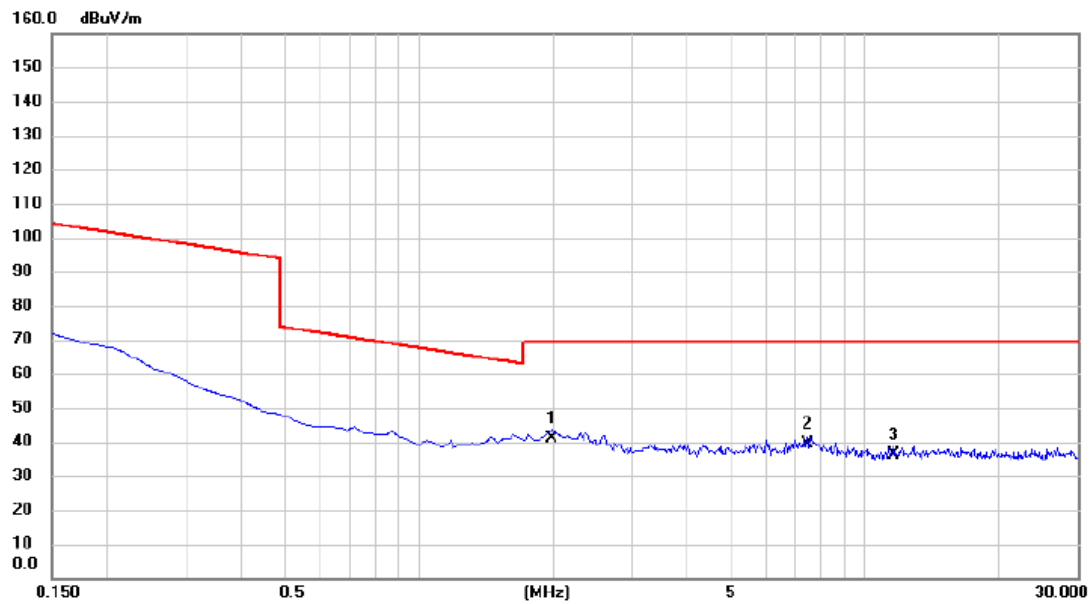


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0204	56.25	20.33	76.58	121.41	-44.83	AVG	
2		0.0765	43.84	19.89	63.73	109.93	-46.20	AVG	
3		0.1026	42.19	19.83	62.02	107.38	-45.36	QP	

REMARKS:

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

Test Mode	TX N(HT20) Mode Channel 06	Polarization	Ant 90°
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	1.9858	21.32	19.79	41.11	69.54	-28.43	QP	
2		7.4185	19.51	20.04	39.55	69.54	-29.99	QP	
3		11.5975	16.12	20.23	36.35	69.54	-33.19	QP	

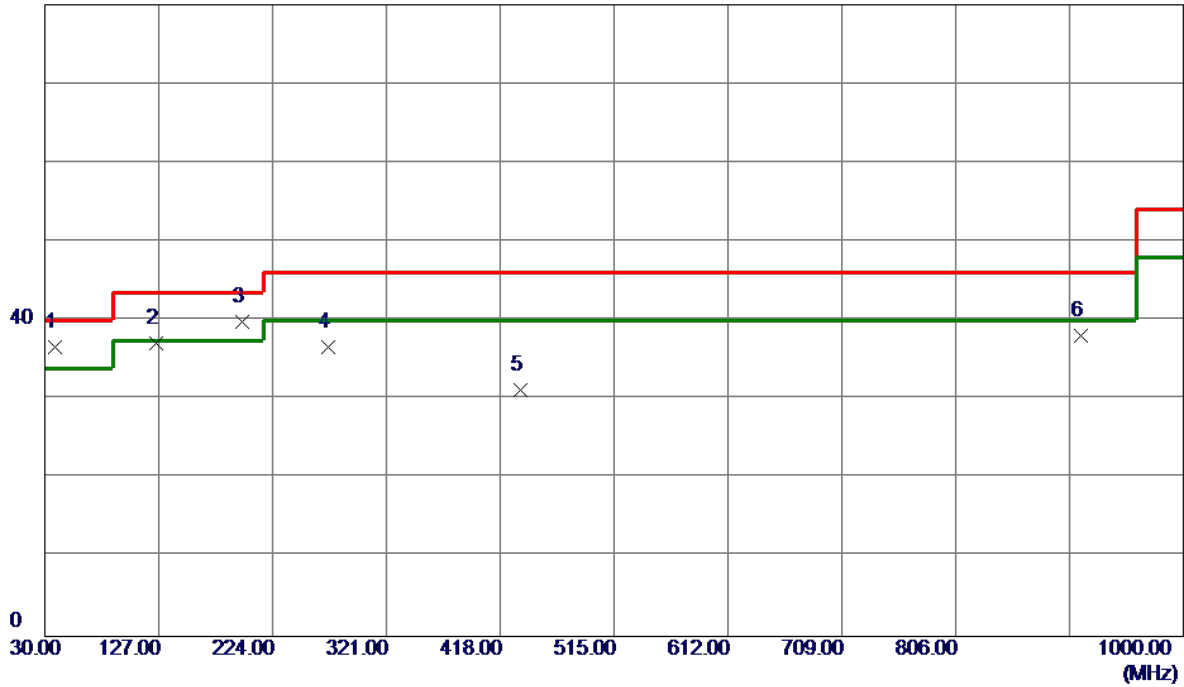
REMARKS:

- (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



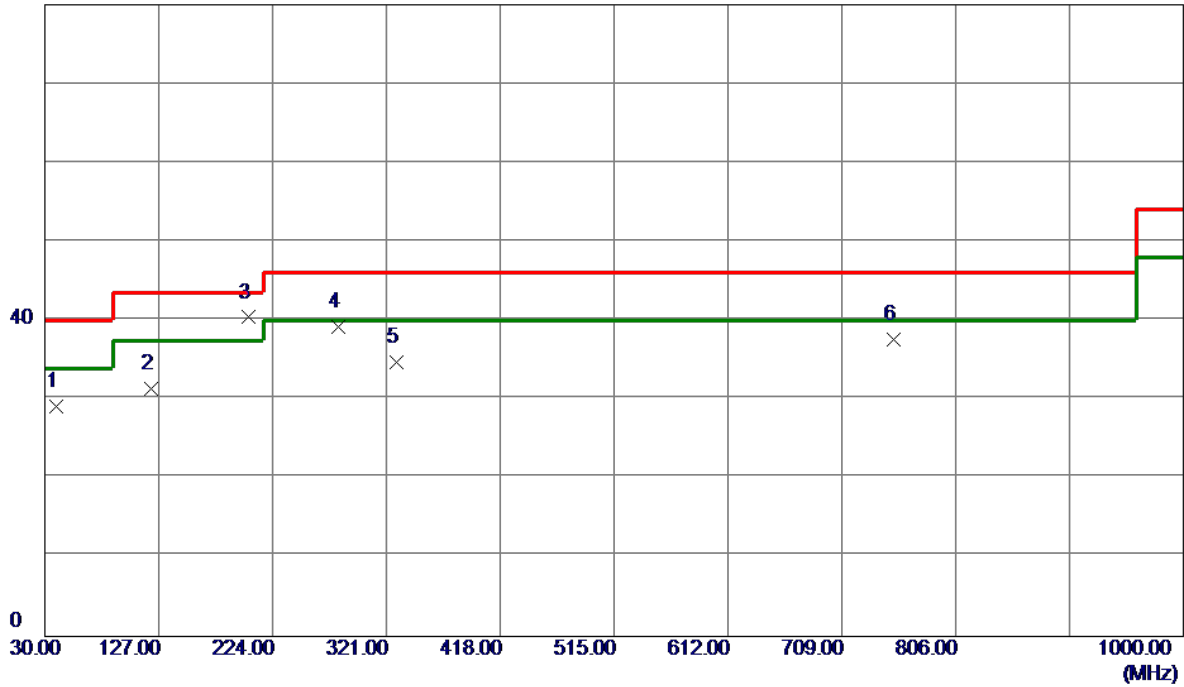
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	38.7300	48.53	-11.90	36.63	40.00	-3.37	QP	
2	124.5750	49.93	-12.86	37.07	43.50	-6.43	Peak	
3	198.2950	54.22	-14.38	39.84	43.50	-3.66	QP	
4	271.5300	48.15	-11.47	36.68	46.00	-9.32	Peak	
5	434.9750	38.31	-7.18	31.13	46.00	-14.87	Peak	
6	912.2150	37.93	0.22	38.15	46.00	-7.85	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	39.7000	40.91	-11.80	29.11	40.00	-10.89	Peak	
2	120.2100	44.48	-13.18	31.30	43.50	-12.20	Peak	
3 *	203.6300	54.87	-14.47	40.40	43.50	-3.10	Peak	
4	280.2600	50.33	-11.07	39.26	46.00	-6.74	Peak	
5	329.2450	44.38	-9.72	34.66	46.00	-11.34	Peak	
6	753.6200	38.79	-1.19	37.60	46.00	-8.40	Peak	

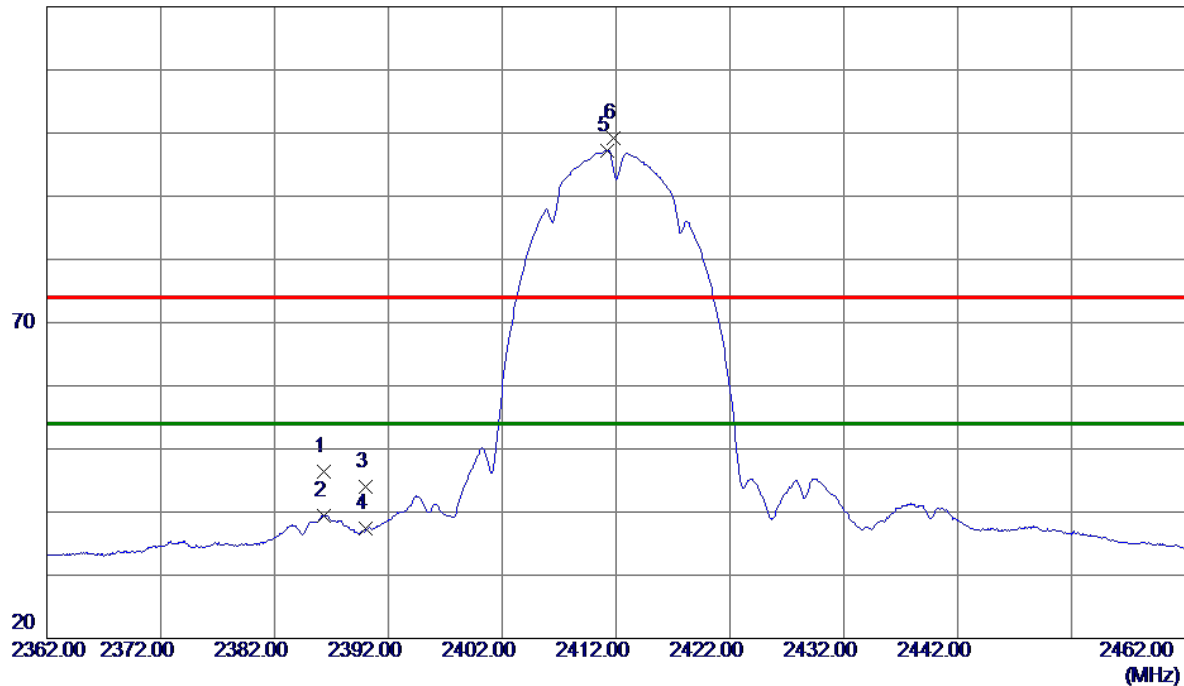
REMARKS:

- (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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120 dBuV/m



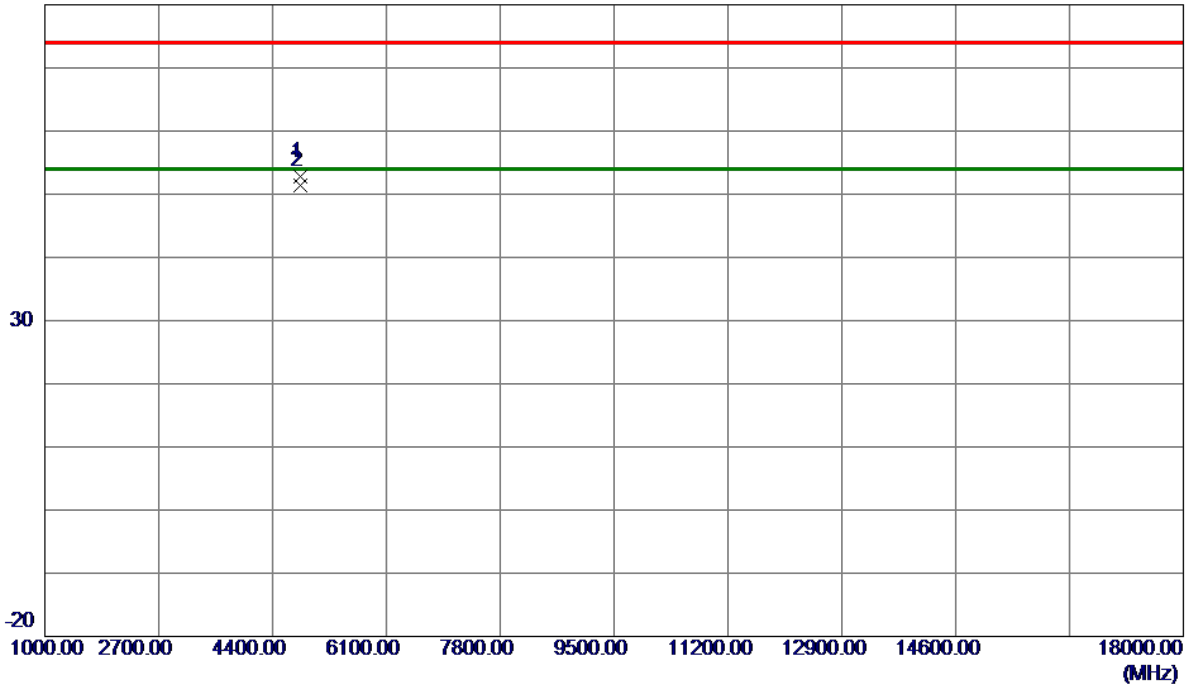
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2386.3500	44.77	1.64	46.41	74.00	-27.59	Peak	
2	2386.3500	37.82	1.64	39.46	54.00	-14.54	AVG	
3	2390.0000	42.45	1.64	44.09	74.00	-29.91	Peak	
4	2390.0000	35.76	1.64	37.40	54.00	-16.60	AVG	
5 *	2411.2500	95.58	1.63	97.21	54.00	43.21	AVG	No Limit
6	2411.7500	97.53	1.63	99.16	74.00	25.16	Peak	No Limit

REMARKS:

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

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



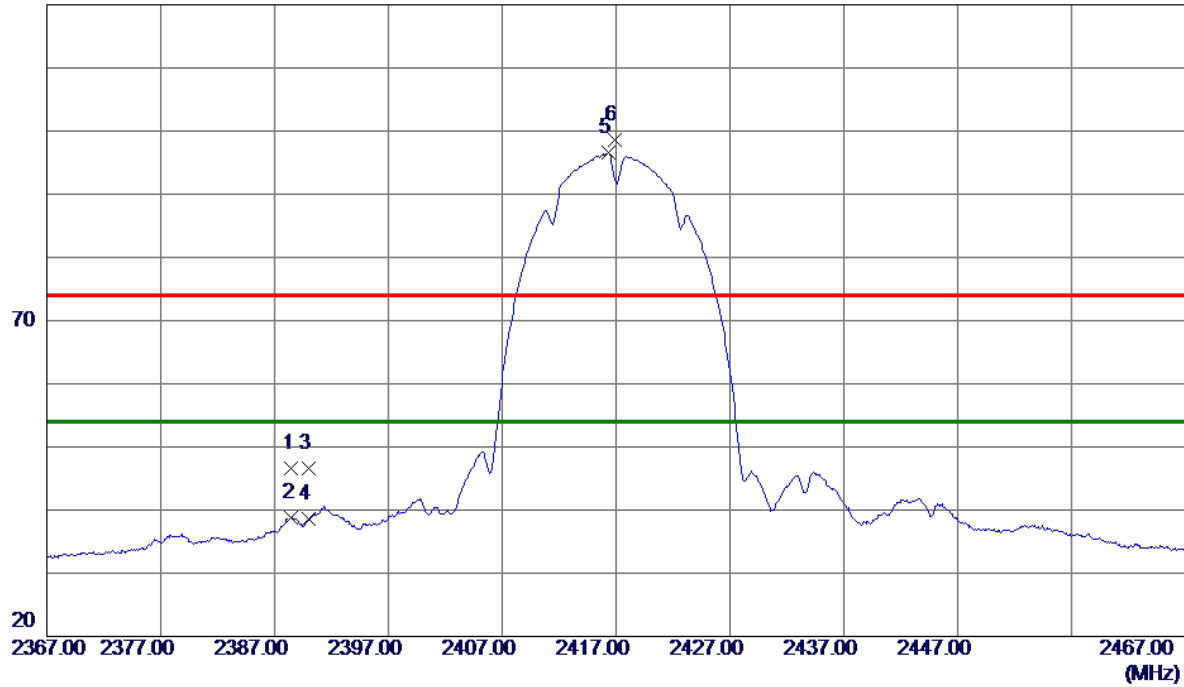
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.0250	51.99	0.72	52.71	74.00	-21.29	Peak	
2 *	4824.0750	50.61	0.72	51.33	54.00	-2.67	AVG	

REMARKS:

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

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



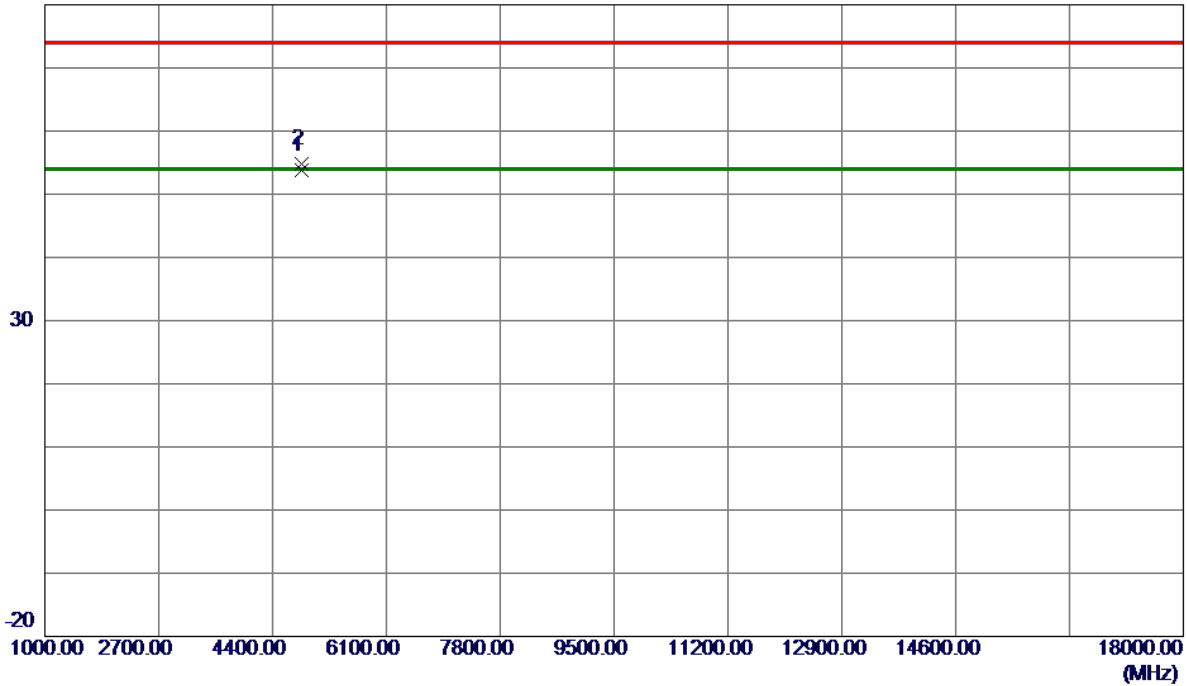
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.5000	44.97	1.64	46.61	74.00	-27.39	Peak	
2	2388.5000	37.21	1.64	38.85	54.00	-15.15	AVG	
3	2390.0000	44.87	1.64	46.51	74.00	-27.49	Peak	
4	2390.0000	36.97	1.64	38.61	54.00	-15.39	AVG	
5 *	2416.3000	94.89	1.63	96.52	54.00	42.52	AVG	No Limit
6	2416.9000	96.96	1.62	98.58	74.00	24.58	Peak	No Limit

REMARKS:

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

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



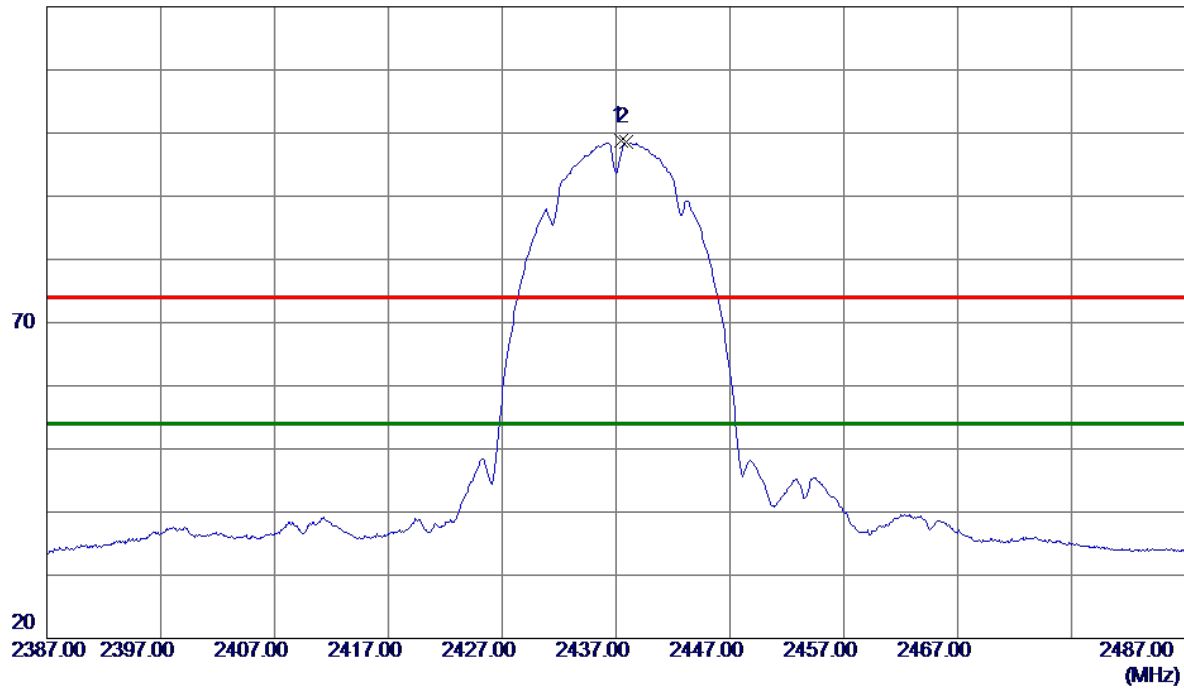
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4834.0750	53.02	0.75	53.77	54.00	-0.23	AVG	
2	4834.1000	53.96	0.75	54.71	74.00	-19.29	Peak	

REMARKS:

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

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



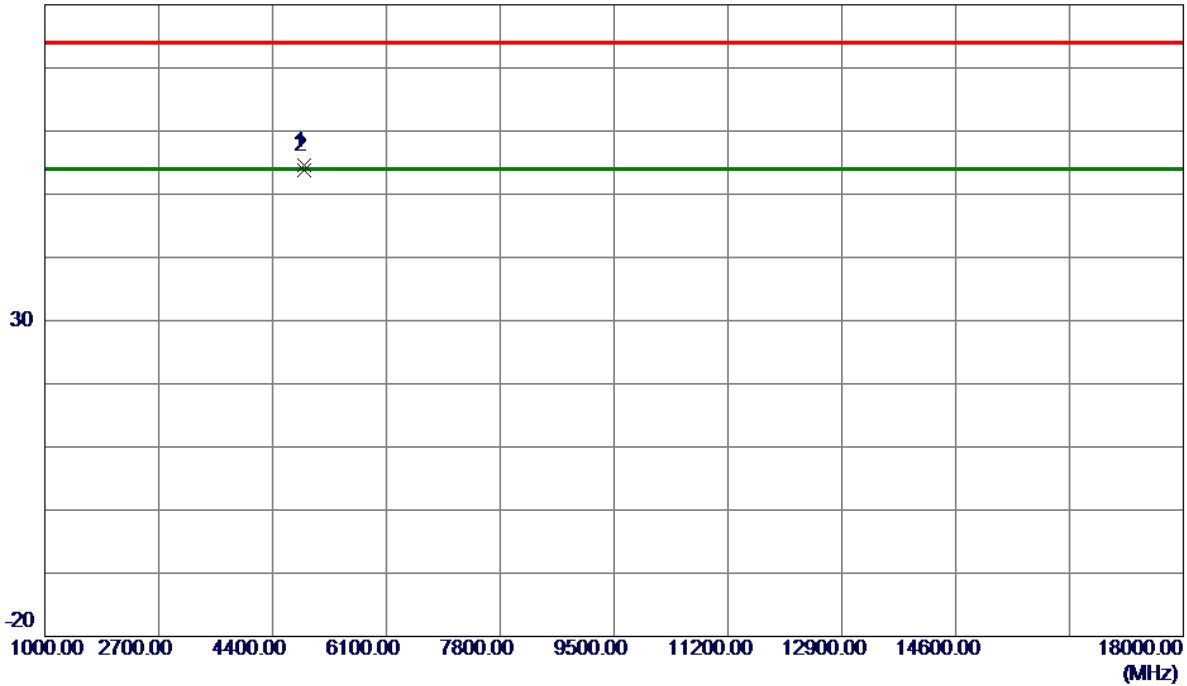
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.4500	97.11	1.62	98.73	74.00	24.73	Peak	No Limit
2 *	2437.9000	96.96	1.62	98.58	54.00	44.58	AVG	No Limit

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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80 dBuV/m



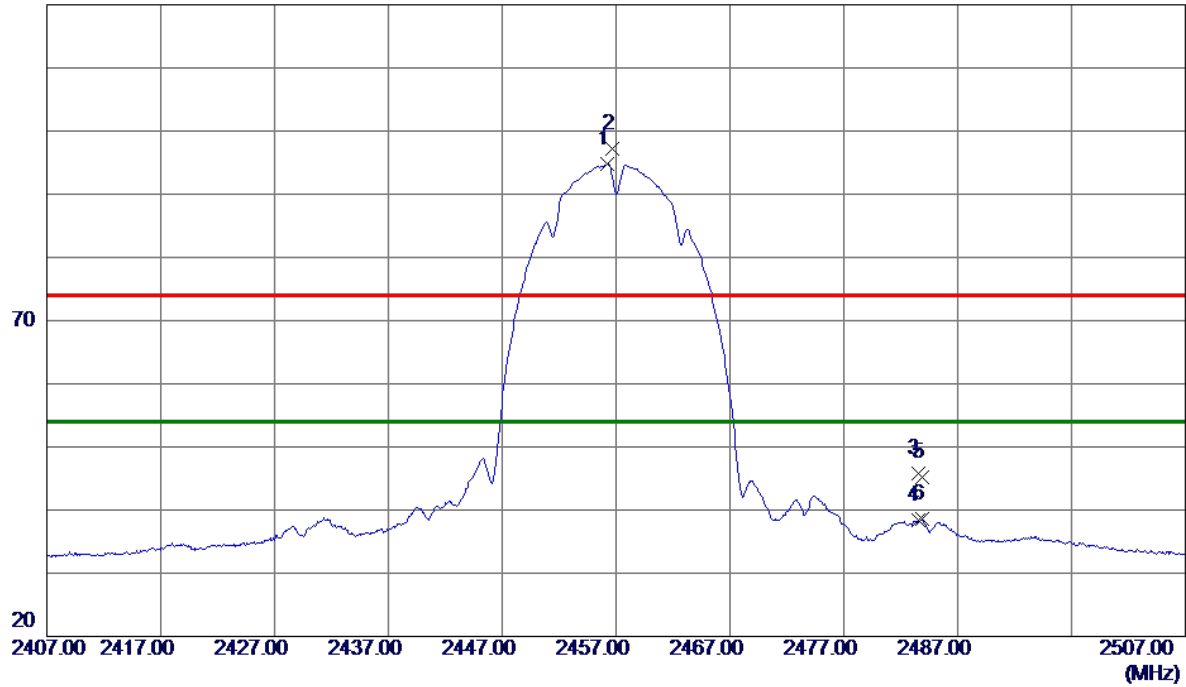
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0750	53.64	0.86	54.50	74.00	-19.50	Peak	
2 *	4874.0750	52.97	0.86	53.83	54.00	-0.17	AVG	

REMARKS:

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

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



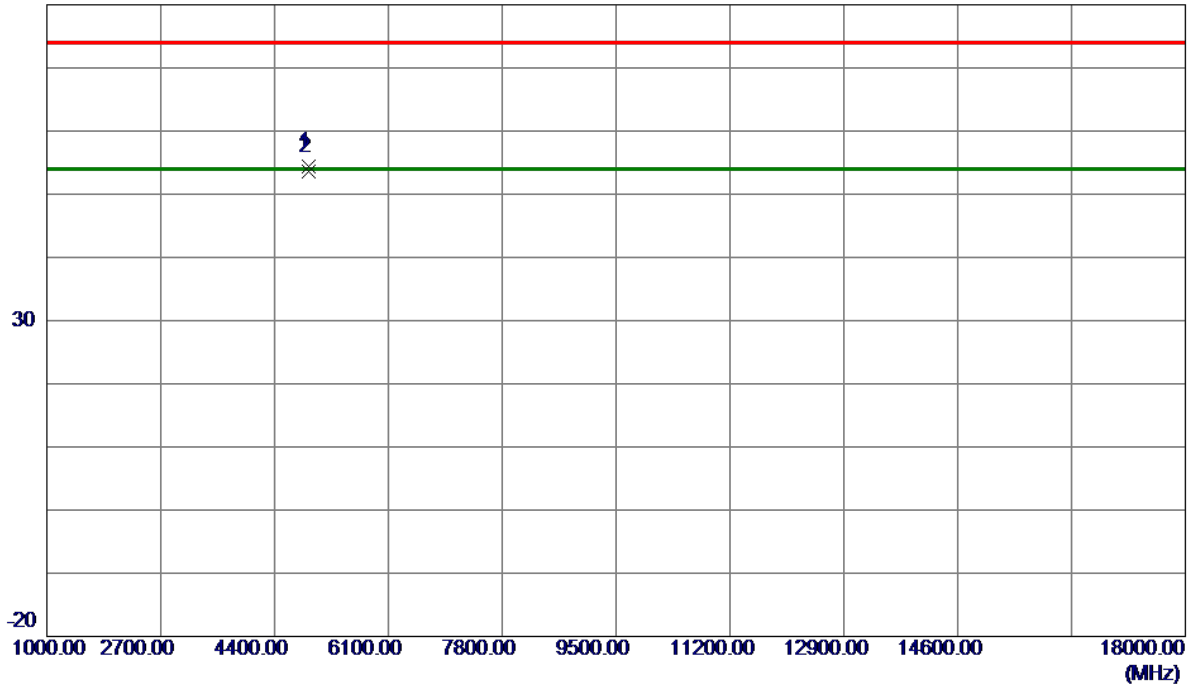
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2456.2500	93.16	1.61	94.77	54.00	40.77	AVG	No Limit
2	2456.6500	95.61	1.61	97.22	74.00	23.22	Peak	No Limit
3	2483.5000	44.18	1.60	45.78	74.00	-28.22	Peak	
4	2483.5000	36.79	1.60	38.39	54.00	-15.61	AVG	
5	2483.8500	43.56	1.60	45.16	74.00	-28.84	Peak	
6	2483.8500	36.97	1.60	38.57	54.00	-15.43	AVG	

REMARKS:

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

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



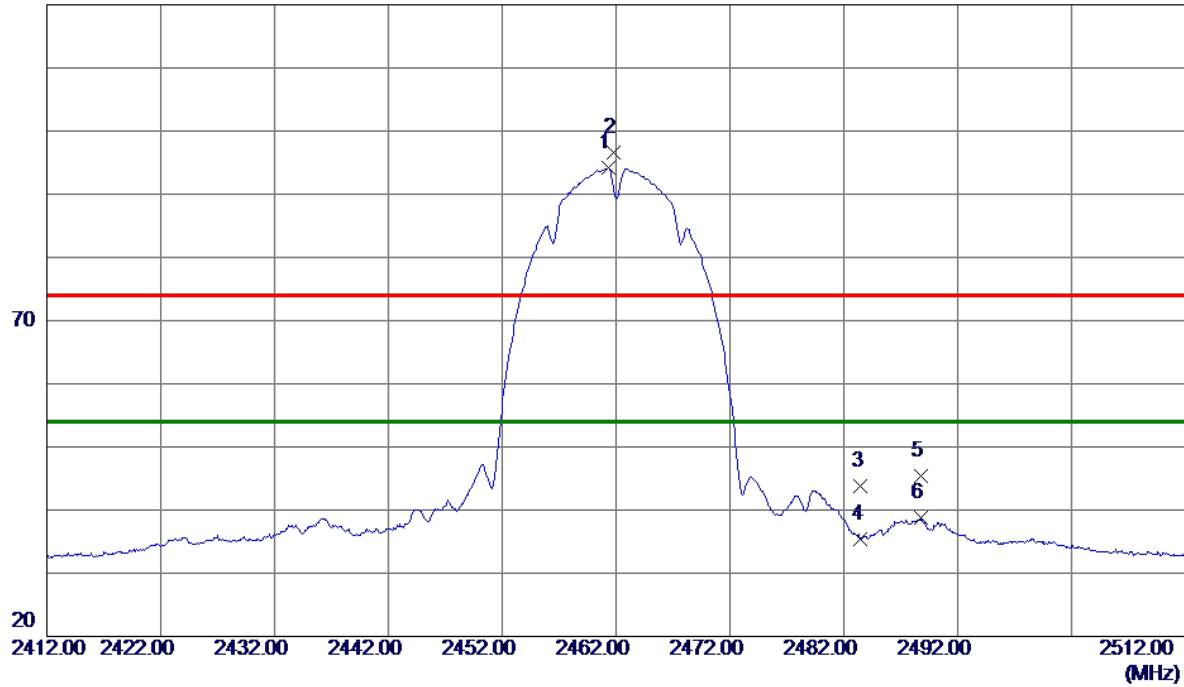
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4914.1000	53.44	0.98	54.42	74.00	-19.58	Peak	
2 *	4914.1000	52.53	0.98	53.51	54.00	-0.49	AVG	

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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120 dBuV/m



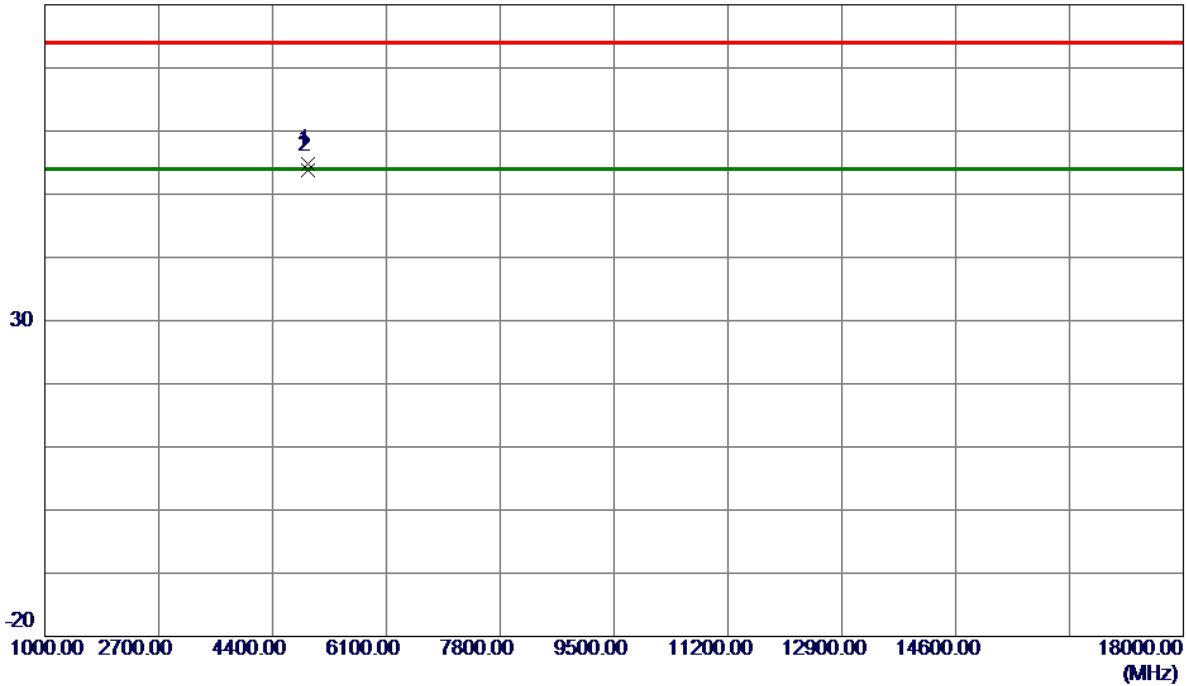
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.3500	92.56	1.61	94.17	54.00	40.17	AVG	No Limit
2	2461.7500	94.97	1.61	96.58	74.00	22.58	Peak	No Limit
3	2483.5000	42.16	1.60	43.76	74.00	-30.24	Peak	
4	2483.5000	33.78	1.60	35.38	54.00	-18.62	AVG	
5	2488.7500	43.77	1.59	45.36	74.00	-28.64	Peak	
6	2488.7500	37.22	1.59	38.81	54.00	-15.19	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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80 dBuV/m



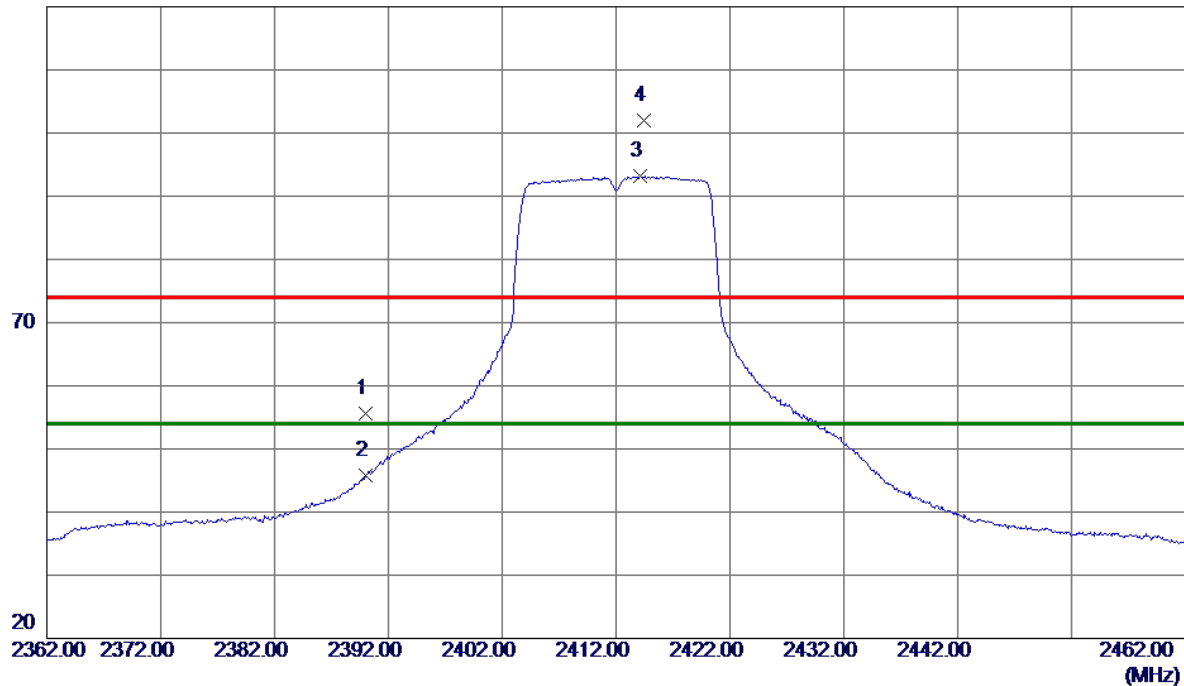
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0750	53.80	1.00	54.80	74.00	-19.20	Peak	
2 *	4924.0750	52.77	1.00	53.77	54.00	-0.23	AVG	

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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120 dBuV/m



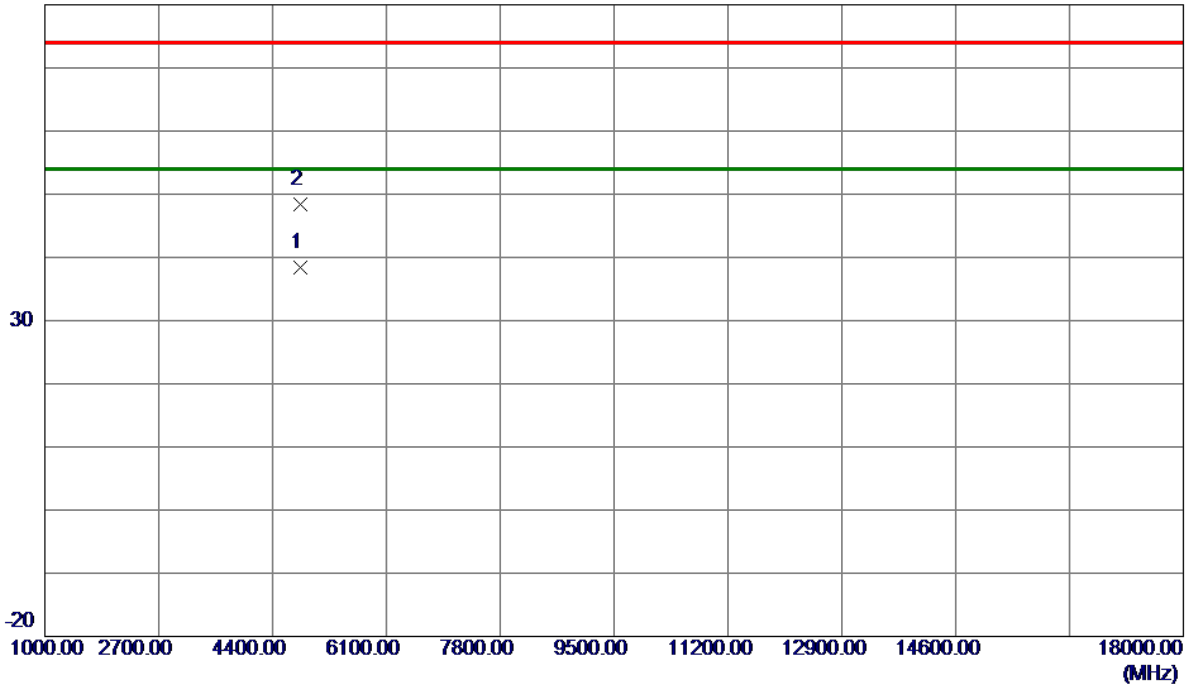
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	54.01	1.64	55.65	74.00	-18.35	Peak	
2	2390.0000	44.18	1.64	45.82	54.00	-8.18	AVG	
3 *	2414.1000	91.51	1.63	93.14	54.00	39.14	AVG	No Limit
4	2414.4500	100.34	1.63	101.97	74.00	27.97	Peak	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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80 dBuV/m



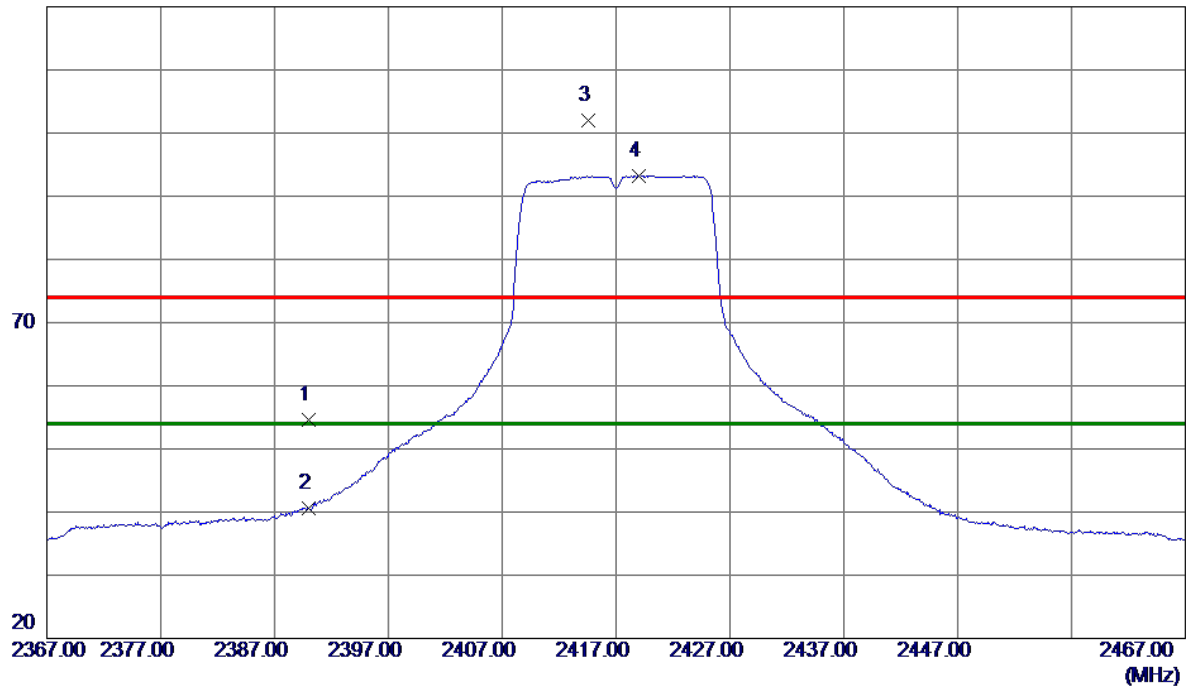
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4822.9500	37.66	0.72	38.38	54.00	-15.62	AVG	
2	4823.5750	47.72	0.72	48.44	74.00	-25.56	Peak	

REMARKS:

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

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



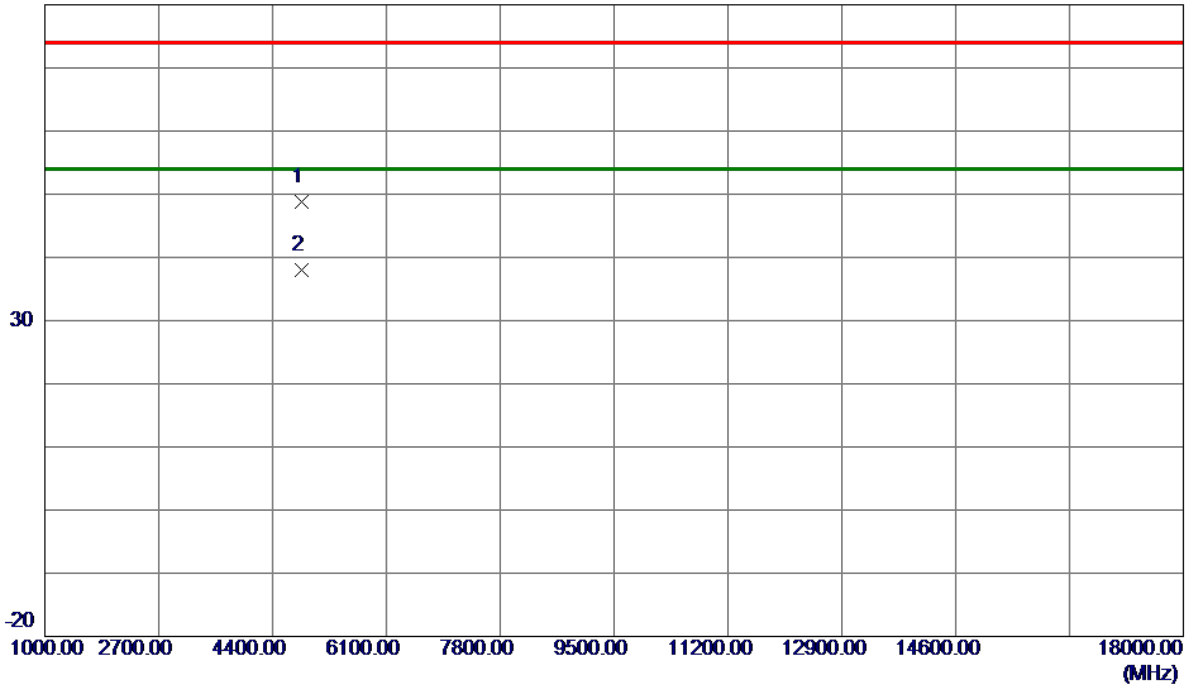
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	52.99	1.64	54.63	74.00	-19.37	Peak	
2	2390.0000	38.96	1.64	40.60	54.00	-13.40	AVG	
3	2414.5500	100.30	1.63	101.93	74.00	27.93	Peak	No Limit
4 *	2418.9500	91.60	1.62	93.22	54.00	39.22	AVG	No Limit

REMARKS:

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

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



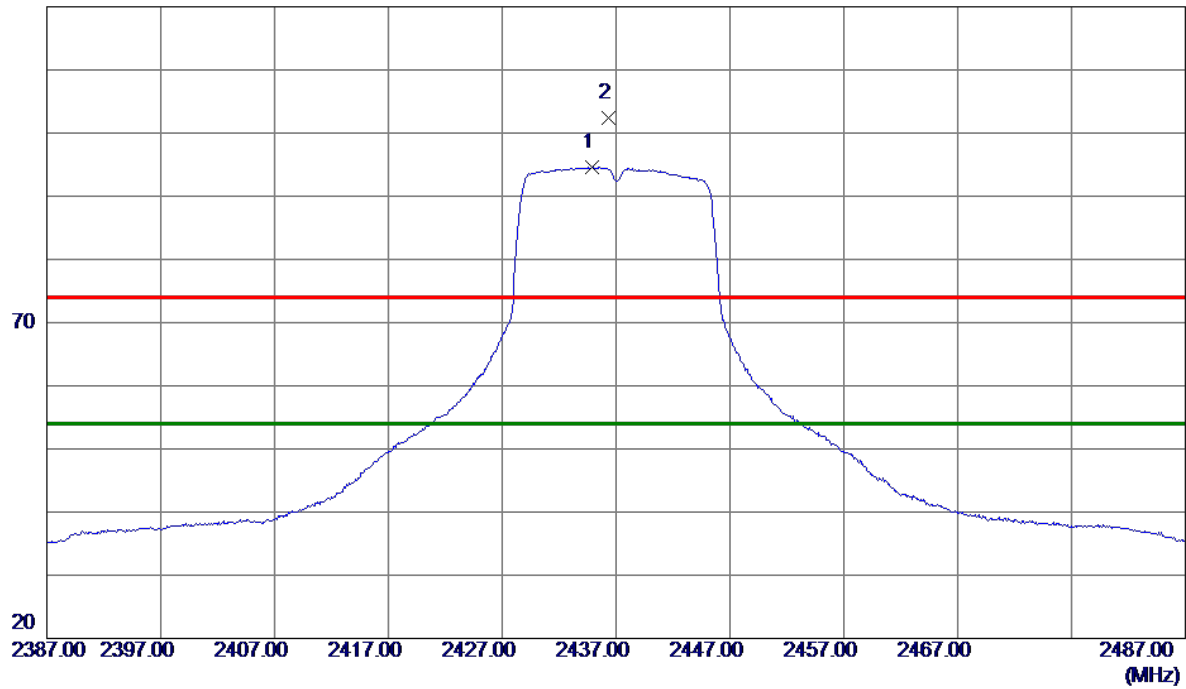
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4828.7500	48.03	0.73	48.76	74.00	-25.24	Peak	
2 *	4834.2250	37.17	0.75	37.92	54.00	-16.08	AVG	

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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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 *	2434.8500	92.95	1.62	94.57	54.00	40.57	AVG	No Limit
2	2436.3000	100.83	1.62	102.45	74.00	28.45	Peak	No Limit

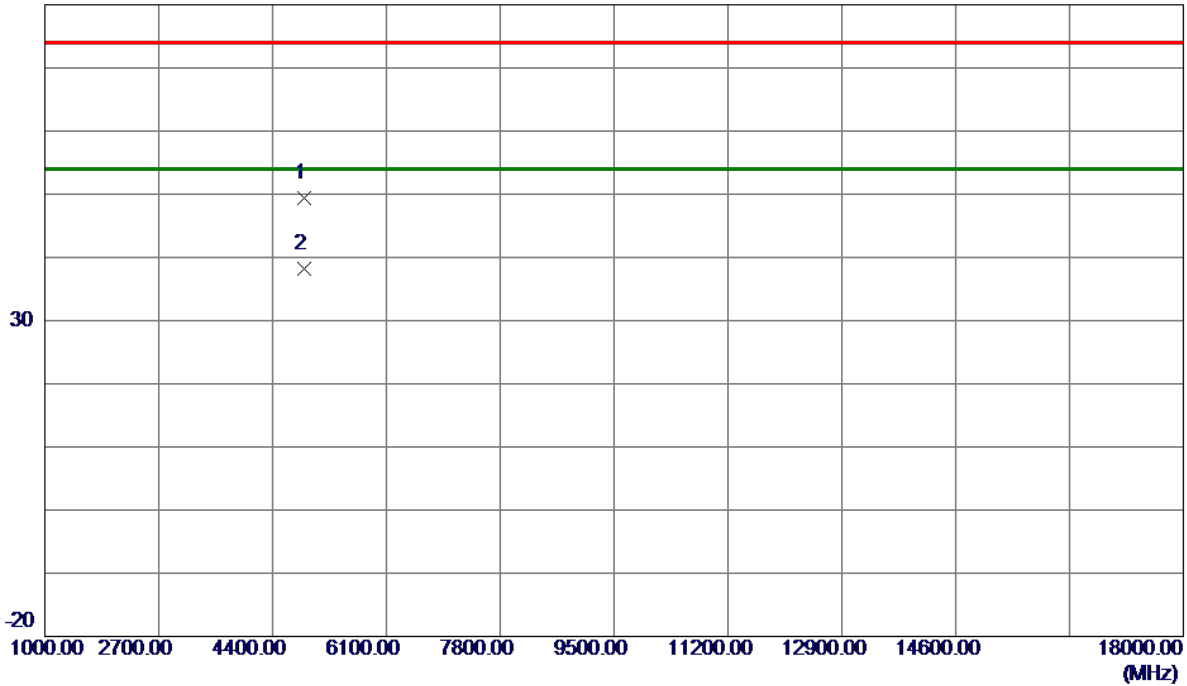
REMARKS:

(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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80 dBuV/m



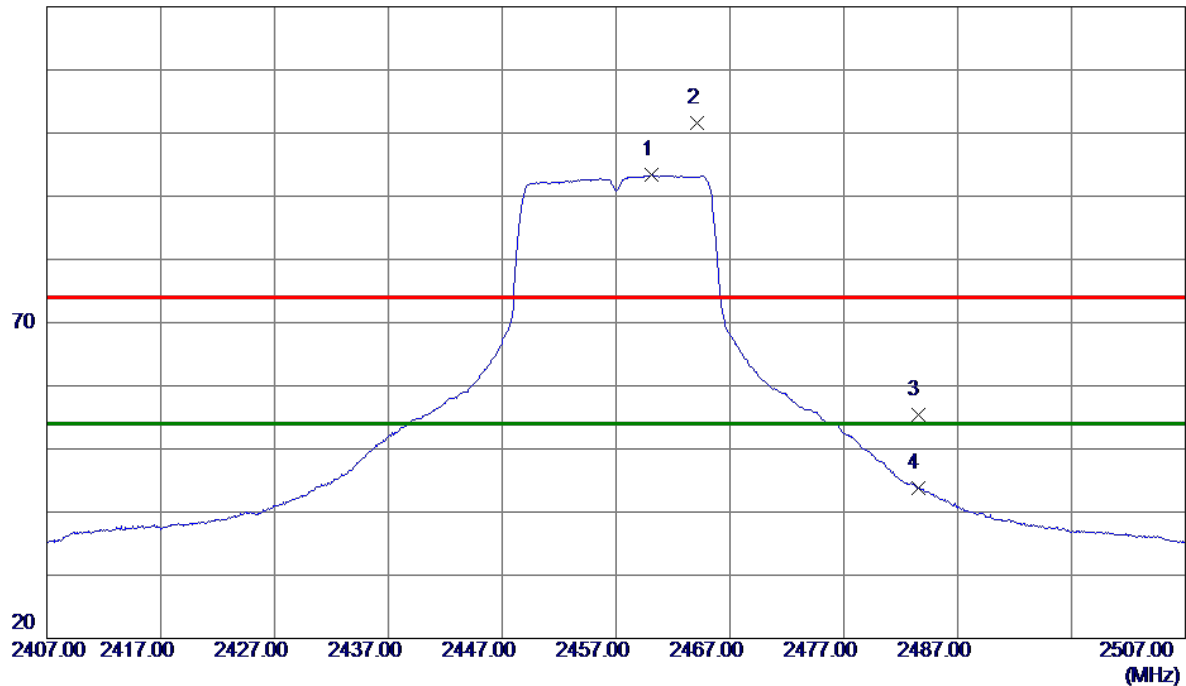
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4870.9500	48.61	0.85	49.46	74.00	-24.54	Peak	
2 *	4873.8000	37.40	0.86	38.26	54.00	-15.74	AVG	

REMARKS:

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

Test Mode	TX G Mode 2457 MHz	Polarization	Vertical
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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 *	2460.1000	91.72	1.61	93.33	54.00	39.33	AVG	No Limit
2	2464.1500	99.94	1.61	101.55	74.00	27.55	Peak	No Limit
3	2483.5000	53.80	1.60	55.40	74.00	-18.60	Peak	
4	2483.5000	42.28	1.60	43.88	54.00	-10.12	AVG	

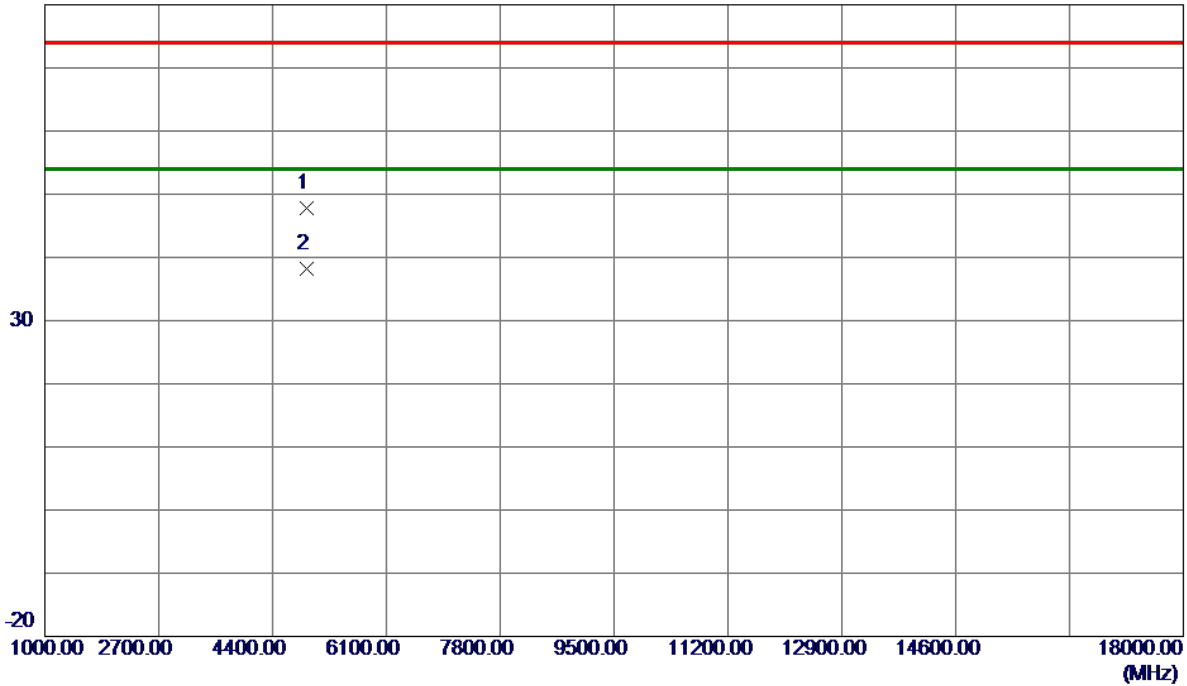
REMARKS:

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

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

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



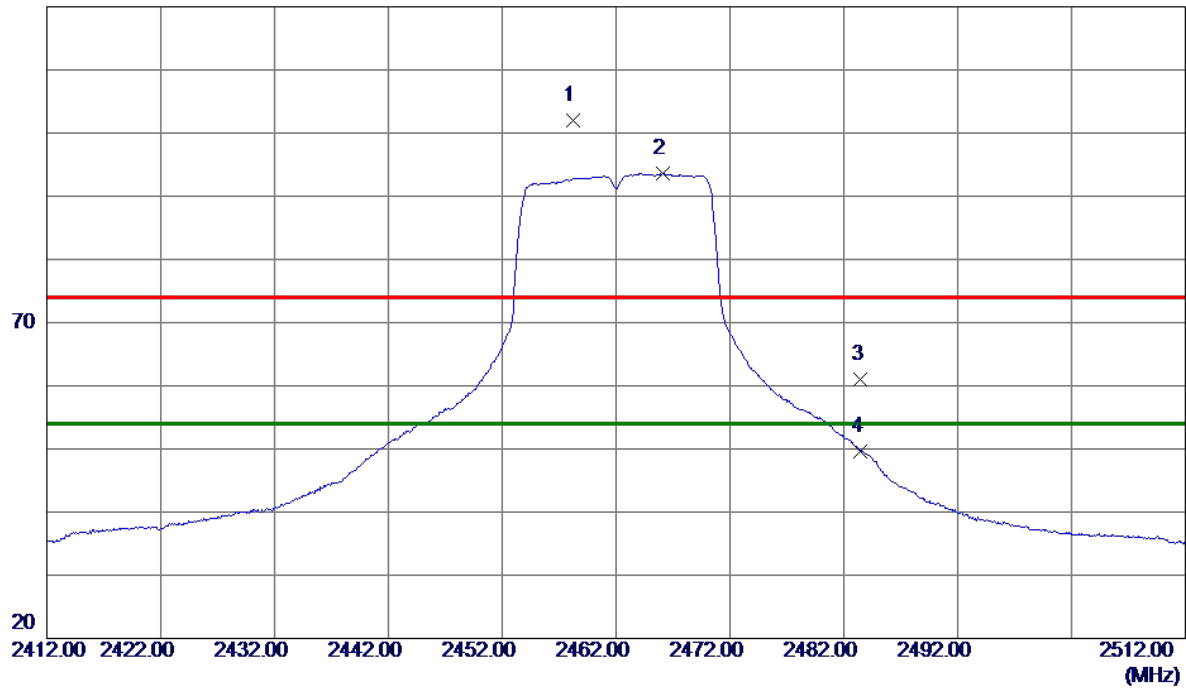
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4914.3500	46.91	0.98	47.89	74.00	-26.11	Peak	
2 *	4915.3750	37.17	0.98	38.15	54.00	-15.85	AVG	

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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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	2458.2500	100.47	1.61	102.08	74.00	28.08	Peak	No Limit
2 *	2466.1000	91.96	1.60	93.56	54.00	39.56	AVG	No Limit
3	2483.5000	59.49	1.60	61.09	74.00	-12.91	Peak	
4	2483.5000	48.07	1.60	49.67	54.00	-4.33	AVG	

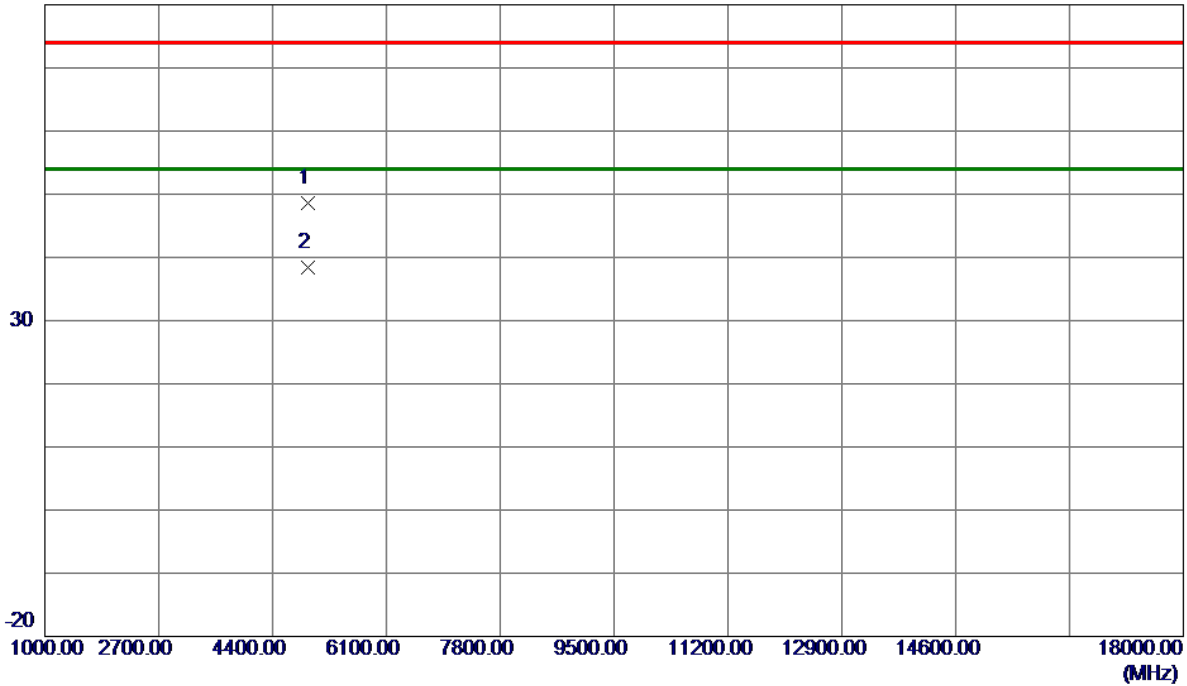
REMARKS:

(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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80 dBuV/m



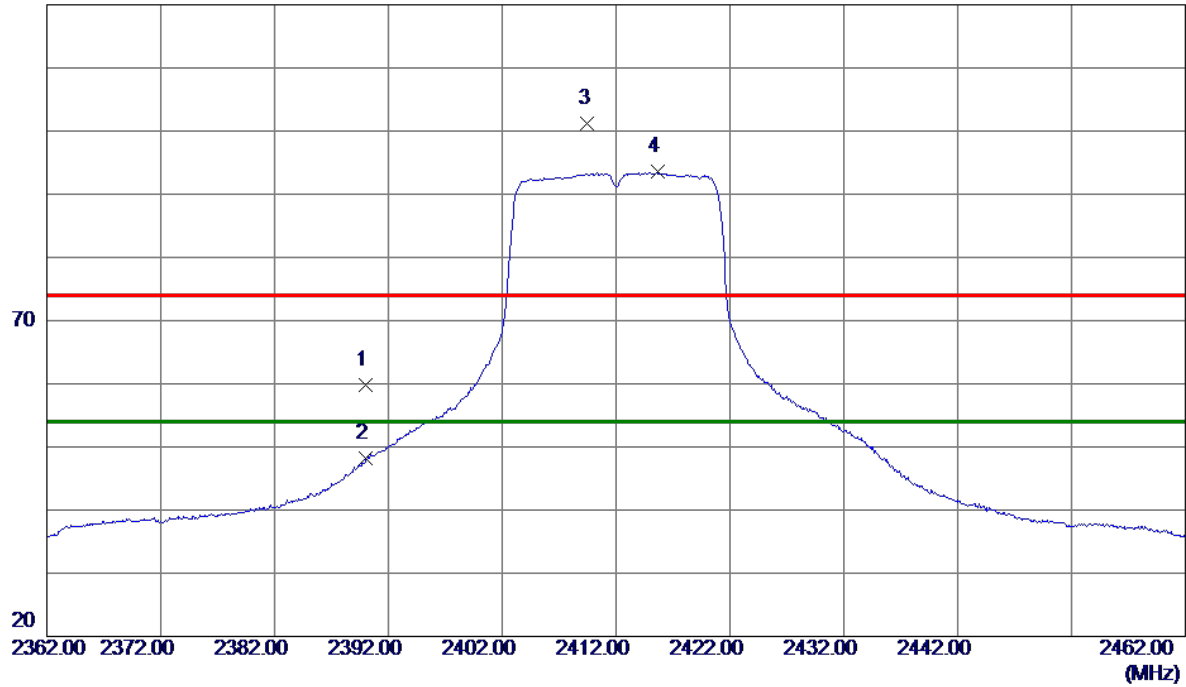
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4921.1500	47.69	1.00	48.69	74.00	-25.31	Peak	
2 *	4923.9250	37.49	1.00	38.49	54.00	-15.51	AVG	

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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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	58.24	1.64	59.88	74.00	-14.12	Peak	
2	2390.0000	46.61	1.64	48.25	54.00	-5.75	AVG	
3	2409.5000	99.63	1.63	101.26	74.00	27.26	Peak	No Limit
4 *	2415.6500	91.88	1.63	93.51	54.00	39.51	AVG	No Limit

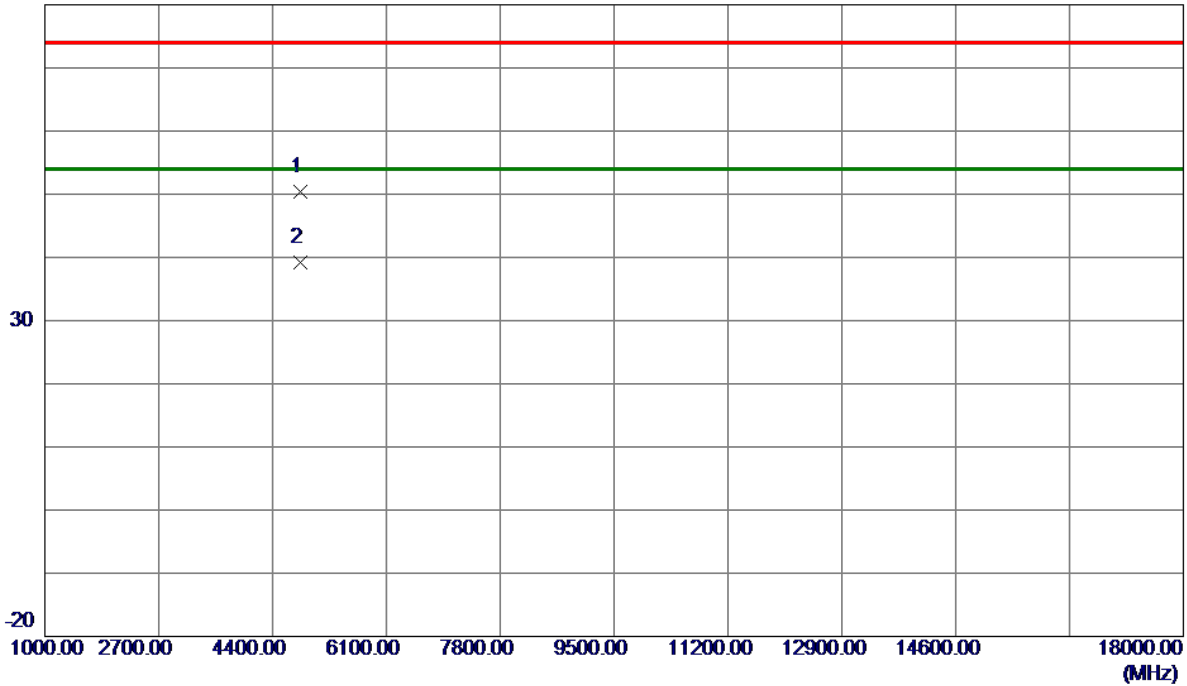
REMARKS:

(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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80 dBuV/m



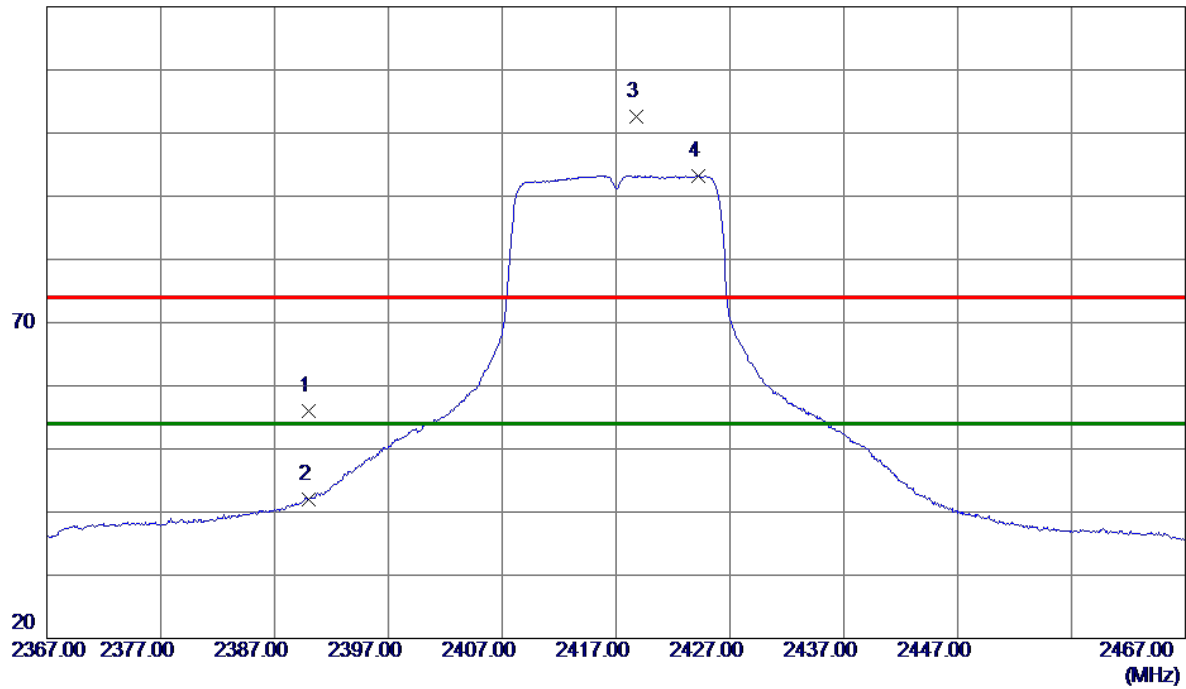
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.3250	49.64	0.72	50.36	74.00	-23.64	Peak	
2 *	4824.9500	38.57	0.72	39.29	54.00	-14.71	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2417 MHz	Polarization	Vertical
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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	54.36	1.64	56.00	74.00	-18.00	Peak	
2	2390.0000	40.45	1.64	42.09	54.00	-11.91	AVG	
3	2418.7500	100.91	1.62	102.53	74.00	28.53	Peak	No Limit
4 *	2424.2000	91.64	1.62	93.26	54.00	39.26	AVG	No Limit

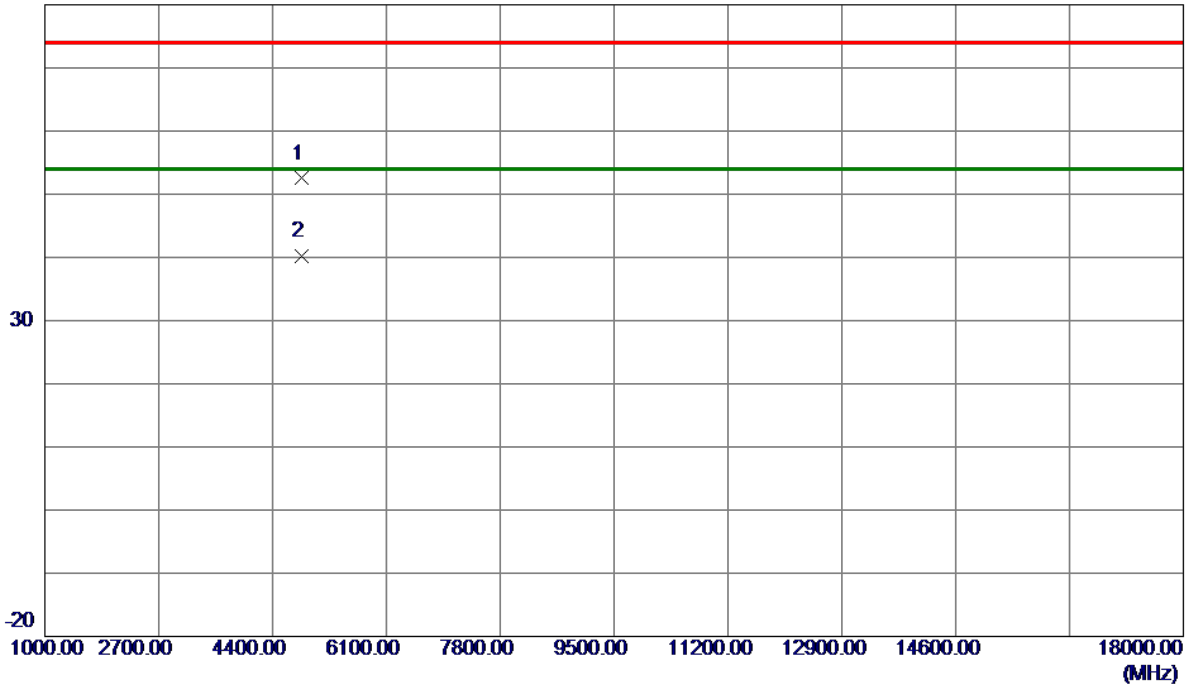
REMARKS:

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

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

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



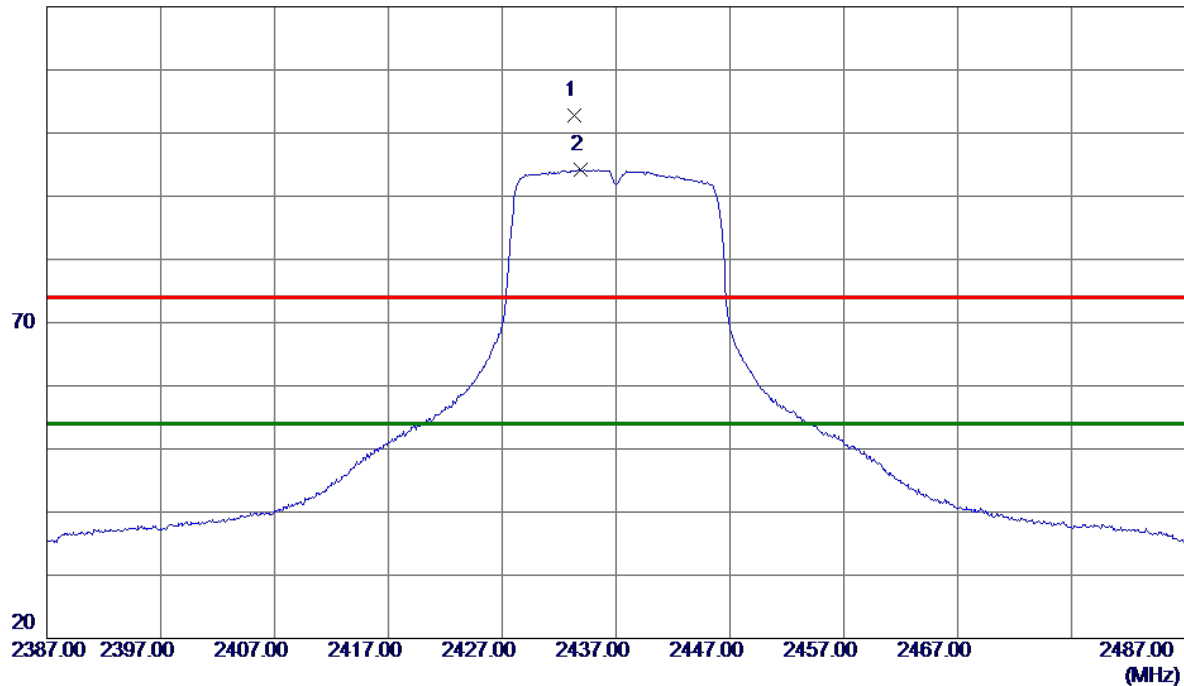
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4833.7750	51.75	0.75	52.50	74.00	-21.50	Peak	
2 *	4834.5750	39.42	0.75	40.17	54.00	-13.83	AVG	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2437 MHz	Polarization	Vertical
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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	2433.3000	101.16	1.62	102.78	74.00	28.78	Peak	No Limit
2 *	2433.8500	92.54	1.62	94.16	54.00	40.16	AVG	No Limit

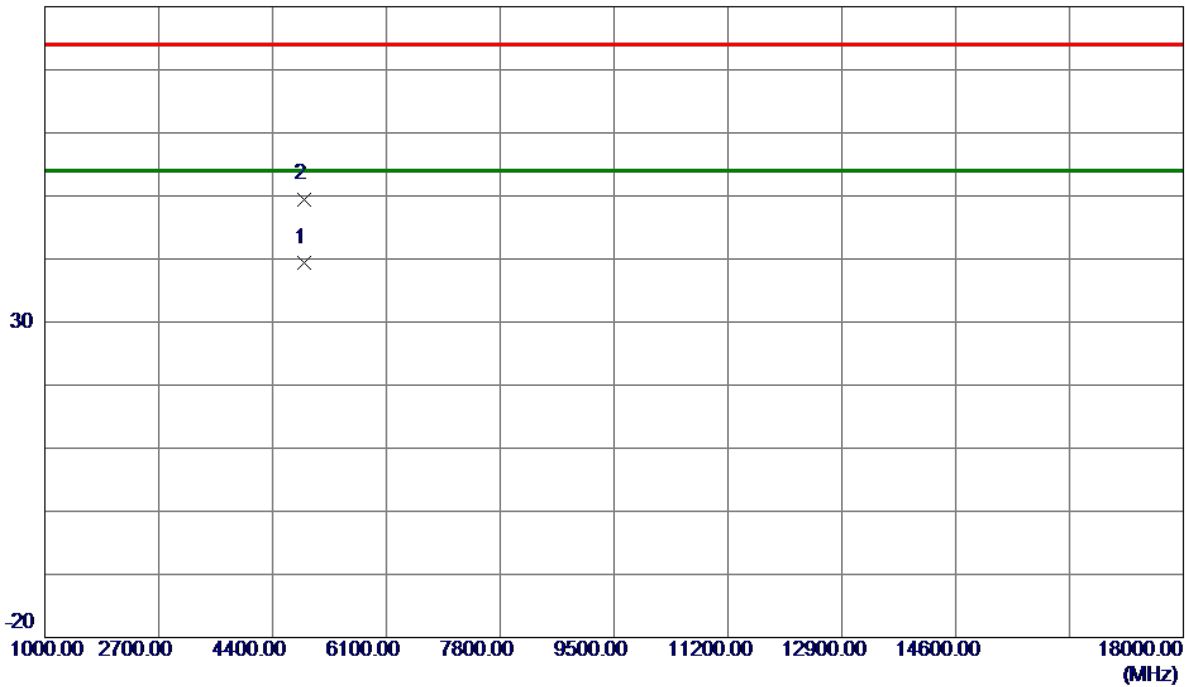
REMARKS:

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

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

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



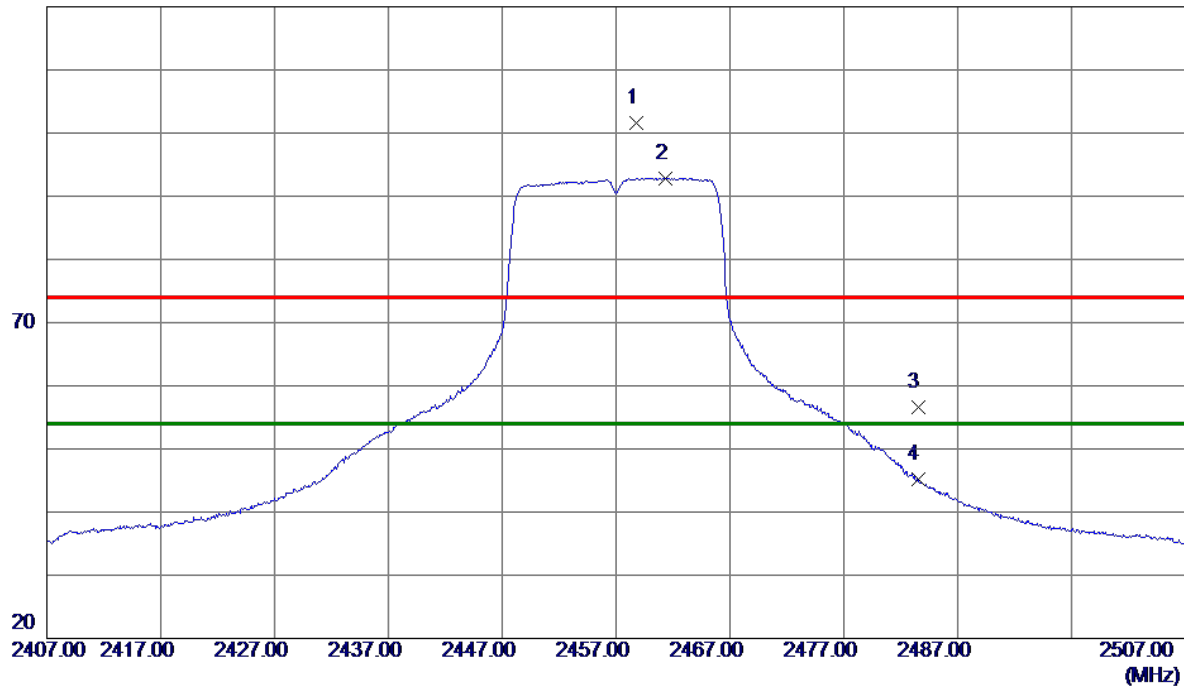
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.1750	38.52	0.86	39.38	54.00	-14.62	AVG	
2	4873.8750	48.64	0.86	49.50	74.00	-24.50	Peak	

REMARKS:

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

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



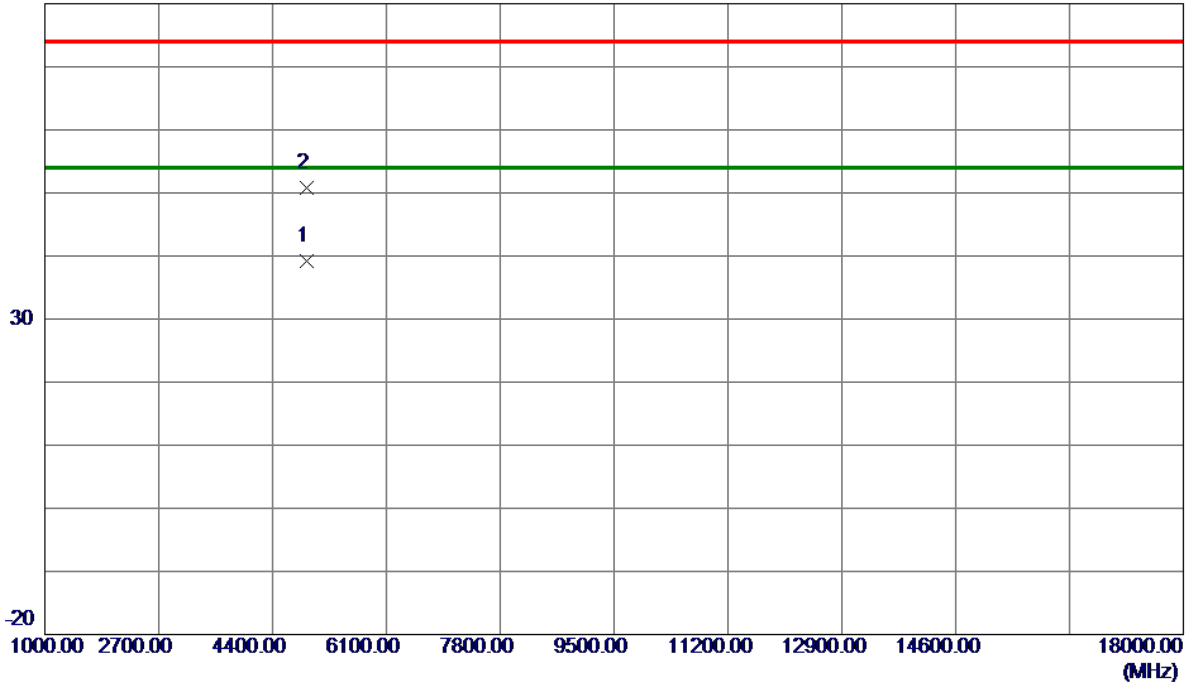
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2458.8000	99.93	1.61	101.54	74.00	27.54	Peak	No Limit
2 *	2461.3000	91.25	1.61	92.86	54.00	38.86	AVG	No Limit
3	2483.5000	55.08	1.60	56.68	74.00	-17.32	Peak	
4	2483.5000	43.64	1.60	45.24	54.00	-8.76	AVG	

REMARKS:

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

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



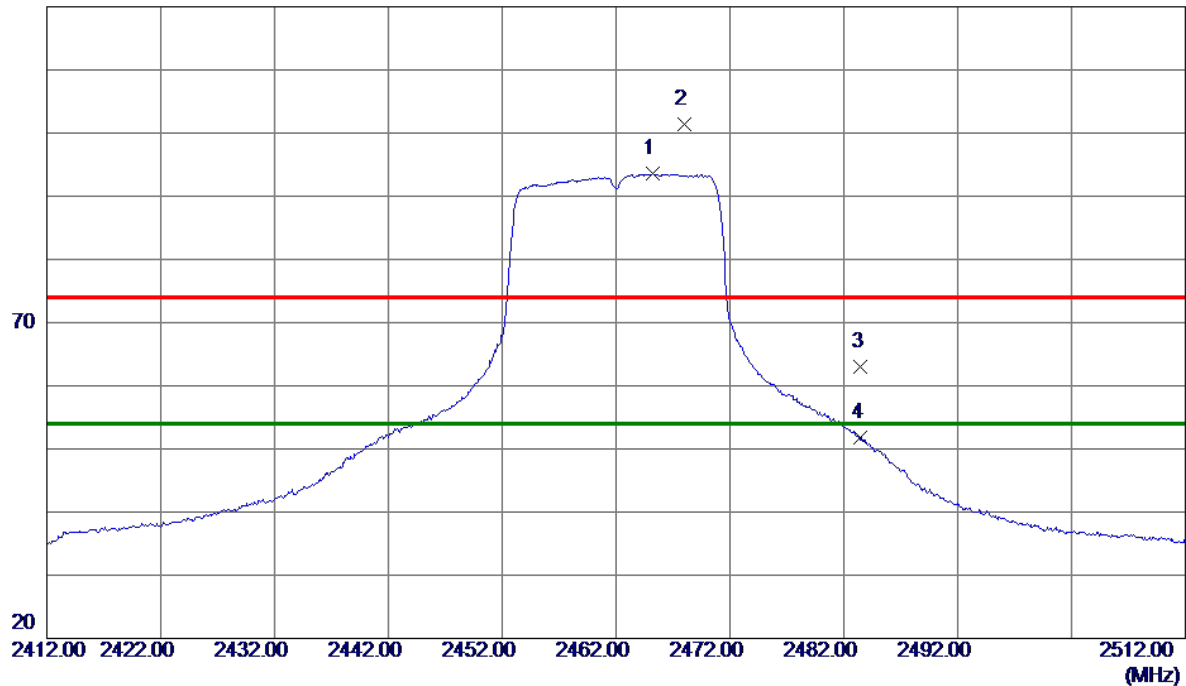
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4914.8000	38.20	0.98	39.18	54.00	-14.82	AVG	
2	4918.1000	49.72	0.99	50.71	74.00	-23.29	Peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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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 *	2465.2000	91.92	1.60	93.52	54.00	39.52	AVG	No Limit
2	2468.0000	99.82	1.60	101.42	74.00	27.42	Peak	No Limit
3	2483.5000	61.34	1.60	62.94	74.00	-11.06	Peak	
4	2483.5000	50.19	1.60	51.79	54.00	-2.21	AVG	

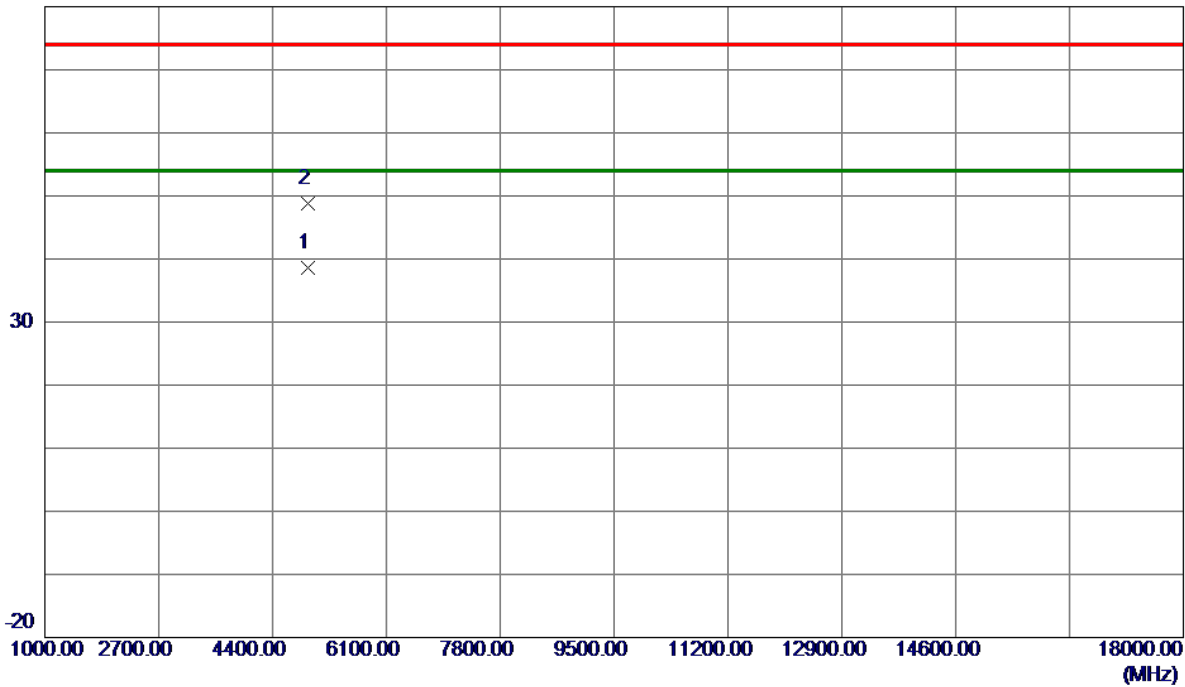
REMARKS:

(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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80 dBuV/m

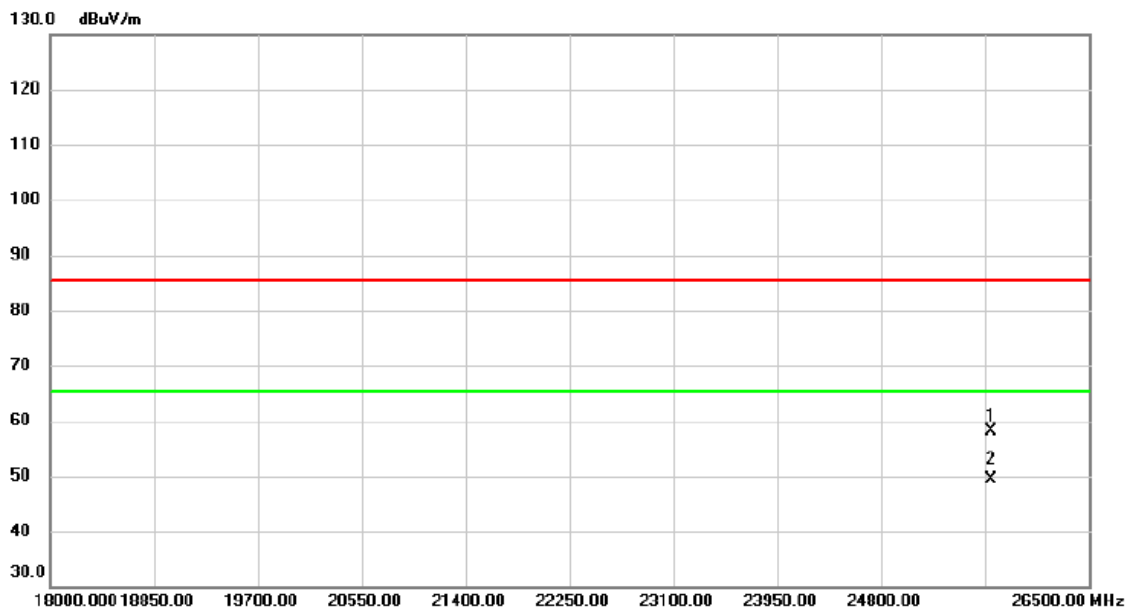


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4921.8750	37.64	1.00	38.64	54.00	-15.36	AVG	
2	4925.0000	47.75	1.01	48.76	74.00	-25.24	Peak	

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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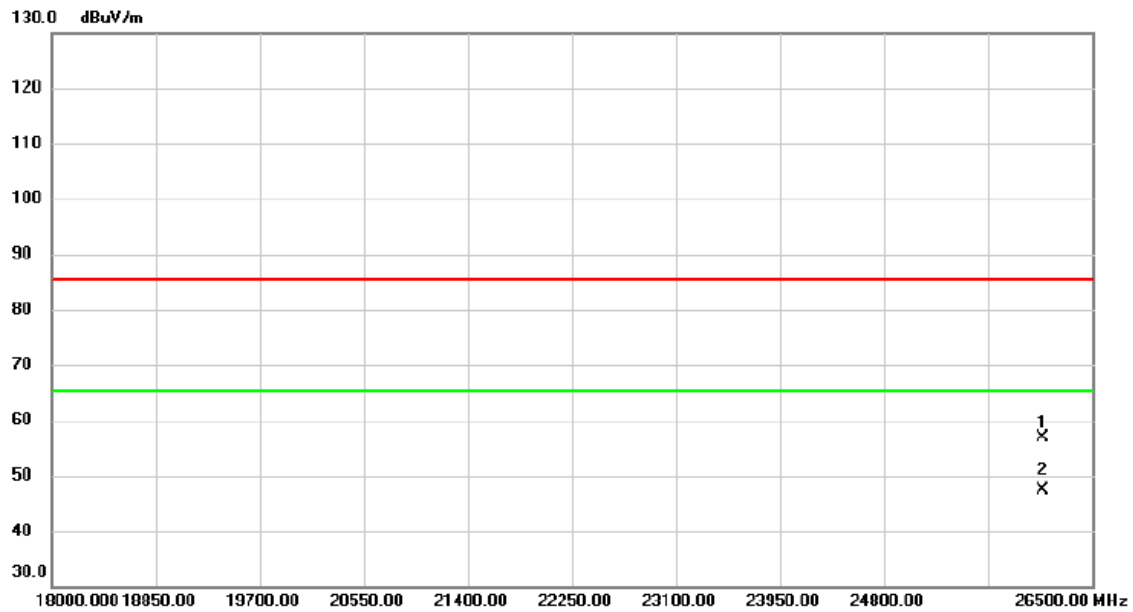
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		25701.00	48.26	9.98	58.24	85.30	-27.06	peak	
2	*	25701.00	39.45	9.98	49.43	65.30	-15.87	AVG	

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	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		26096.25	46.50	10.44	56.94	85.30	-28.36	peak	
2	*	26096.25	37.06	10.44	47.50	65.30	-17.80	AVG	

REMARKS:

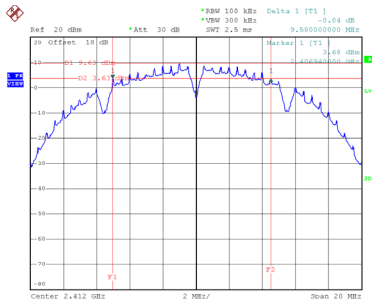
- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	TX B Mode
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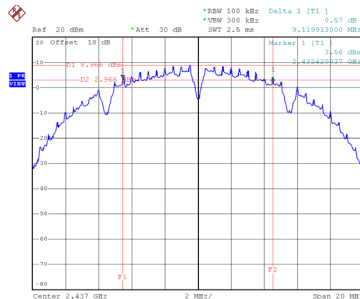
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	9.580	14.160	0.5	Complies
06	2437	9.120	14.160	0.5	Complies
11	2462	9.080	14.080	0.5	Complies

CH01



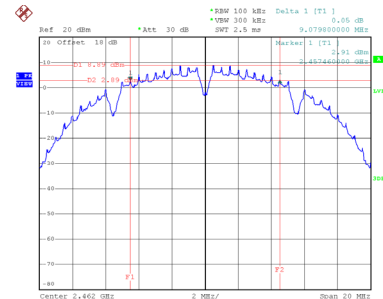
Date: 24.FEB.2024 13:37:25

CH06
6 dB Bandwidth



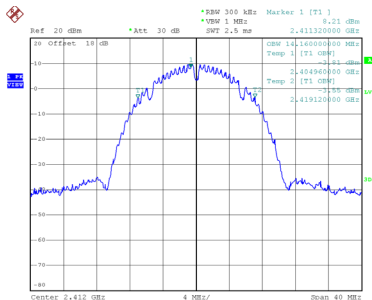
Date: 24.FEB.2024 13:40:21

CH11

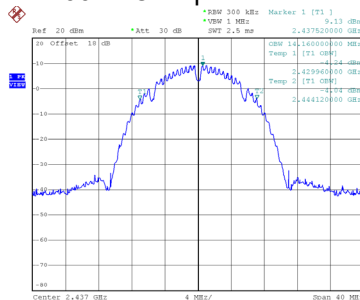


Date: 24.FEB.2024 13:41:49

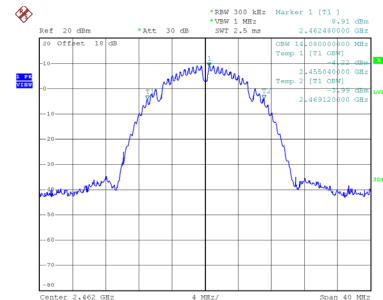
99 % Occupied Bandwidth



Date: 24.FEB.2024 13:37:32



Date: 24.FEB.2024 13:40:29

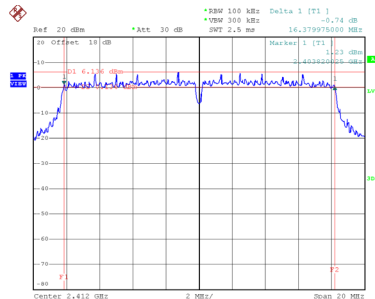


Date: 24.FEB.2024 13:41:56

Test Mode	TX G Mode
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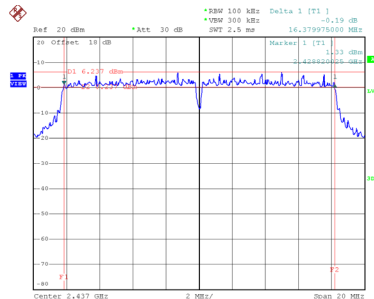
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.380	17.040	0.5	Complies
06	2437	16.380	17.120	0.5	Complies
11	2462	16.440	17.120	0.5	Complies

CH01



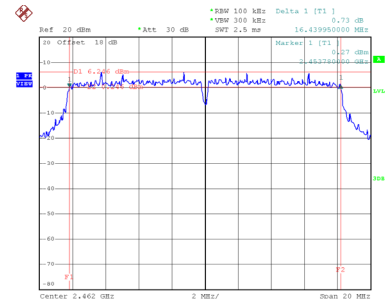
Date: 24.FEB.2024 13:43:19

CH06
6 dB Bandwidth



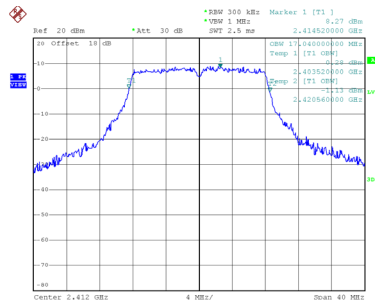
Date: 24.FEB.2024 13:44:02

CH11

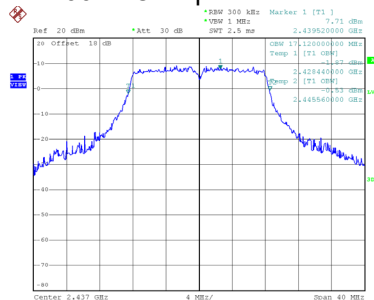


Date: 24.FEB.2024 13:44:50

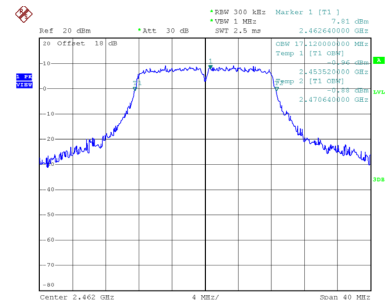
99 % Occupied Bandwidth



Date: 24.FEB.2024 13:43:27



Date: 24.FEB.2024 13:44:10

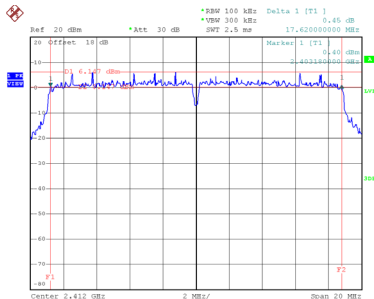


Date: 24.FEB.2024 13:44:58

Test Mode	TX N(HT20) Mode
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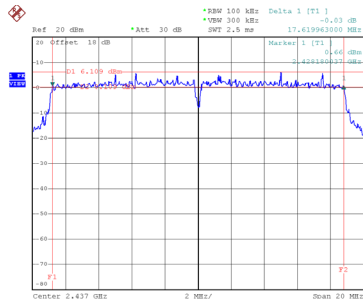
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.620	18.080	0.5	Complies
06	2437	17.620	18.160	0.5	Complies
11	2462	17.640	18.160	0.5	Complies

CH01



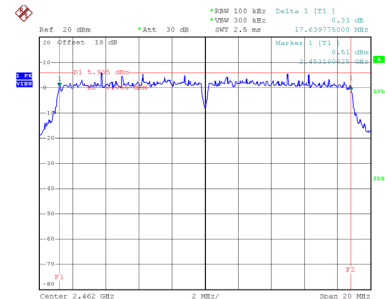
Date: 24.FEB.2024 13:46:13

CH06
6 dB Bandwidth



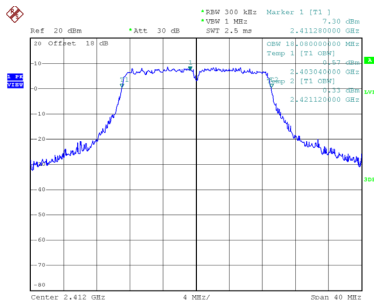
Date: 24.FEB.2024 13:47:01

CH11

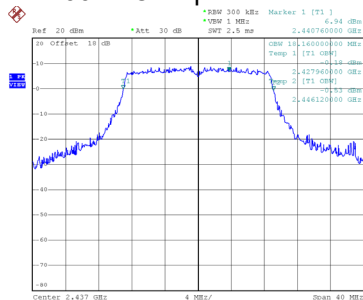


Date: 24.FEB.2024 13:47:34

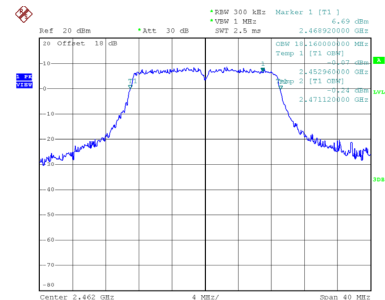
99 % Occupied Bandwidth



Date: 24.FEB.2024 13:46:21



Date: 24.FEB.2024 13:47:09



Date: 24.FEB.2024 13:47:42

APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	TX B Mode
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Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.17	0.00	18.17	30.00	1.0000	Complies
06	2437	17.74	0.00	17.74	30.00	1.0000	Complies
11	2462	17.65	0.00	17.65	30.00	1.0000	Complies

Test Mode	TX G Mode
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Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.15	0.26	18.41	30.00	1.0000	Complies
06	2437	18.11	0.26	18.37	30.00	1.0000	Complies
11	2462	18.12	0.26	18.38	30.00	1.0000	Complies

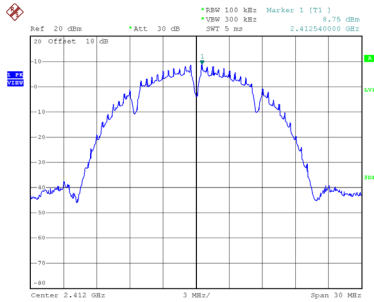
Test Mode	TX N(HT20) Mode
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Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	18.23	0.28	18.51	30.00	1.0000	Complies
06	2437	18.36	0.28	18.64	30.00	1.0000	Complies
11	2462	18.20	0.28	18.48	30.00	1.0000	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

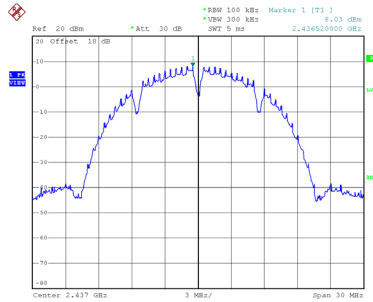
Test Mode TX B Mode

Reference Level-CH01



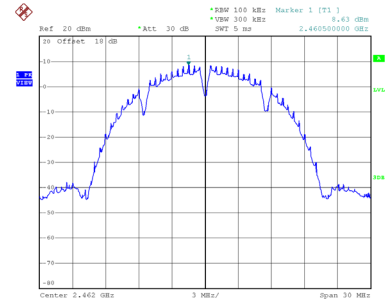
Date: 24.FEB.2024 14:04:37

Reference Level-CH06



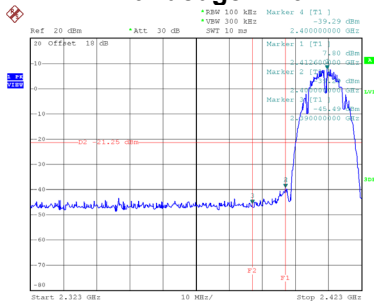
Date: 24.FEB.2024 14:04:59

Reference Level-CH11



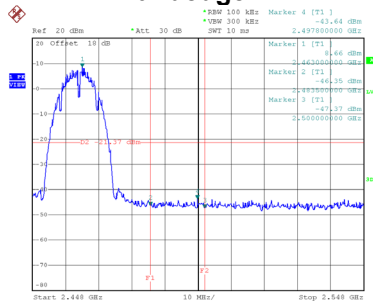
Date: 24.FEB.2024 14:05:32

Bandedge-CH01



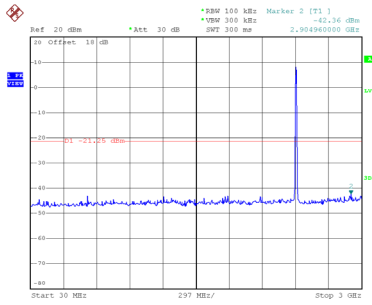
Date: 24.FEB.2024 14:28:00

Bandedge-CH11

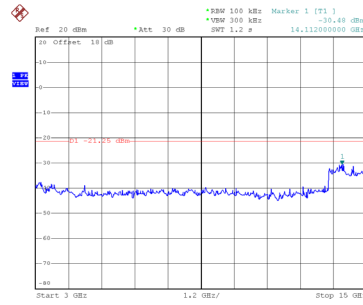


Date: 24.FEB.2024 14:32:28

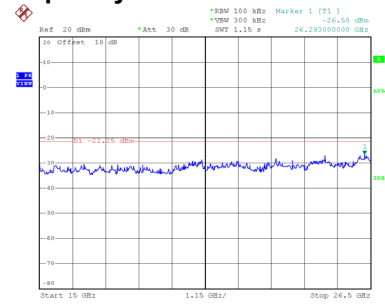
CH01 – 10th Harmonic of the fundamental frequency



Date: 24.FEB.2024 14:53:36

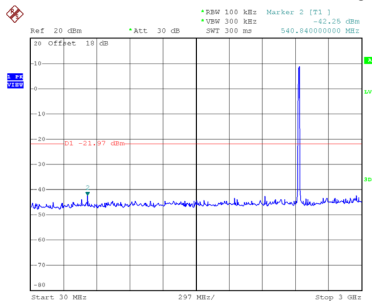


Date: 24.FEB.2024 14:54:05

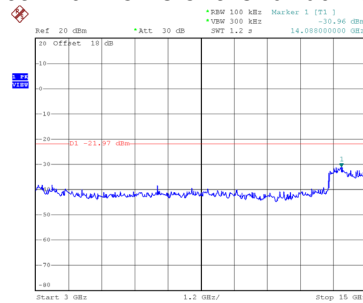


Date: 24.FEB.2024 14:54:40

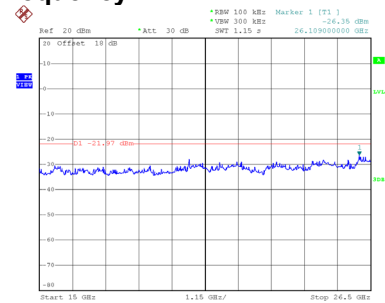
CH06 – 10th Harmonic of the fundamental frequency



Date: 24.FEB.2024 14:55:31

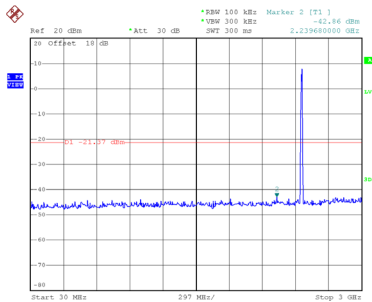


Date: 24.FEB.2024 14:56:00

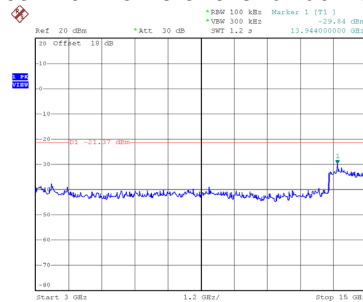


Date: 24.FEB.2024 14:56:28

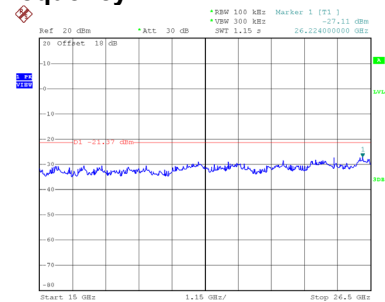
CH11 – 10th Harmonic of the fundamental frequency



Date: 24.FEB.2024 14:57:24



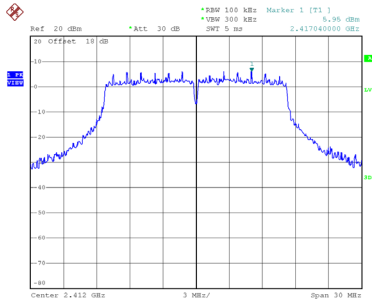
Date: 24.FEB.2024 14:57:51



Date: 24.FEB.2024 14:58:19

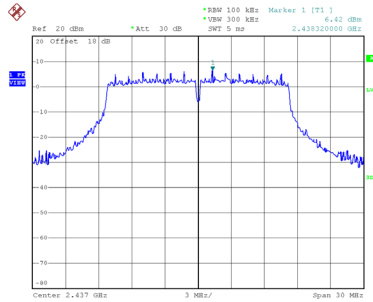
Test Mode TX G Mode

Reference Level-CH01



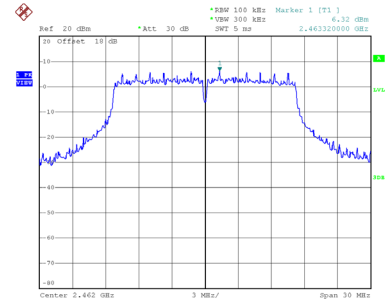
Date: 24.FEB.2024 14:06:04

Reference Level-CH06



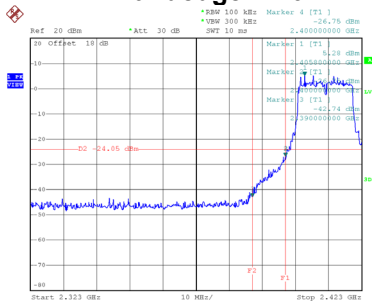
Date: 24.FEB.2024 14:06:38

Reference Level-CH11



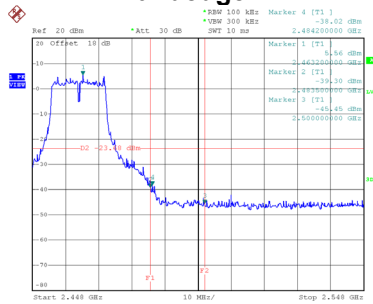
Date: 24.FEB.2024 14:07:06

Bandedge-CH01



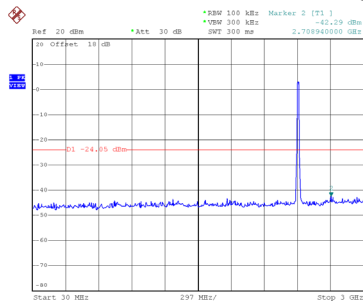
Date: 24.FEB.2024 14:33:34

Bandedge-CH11

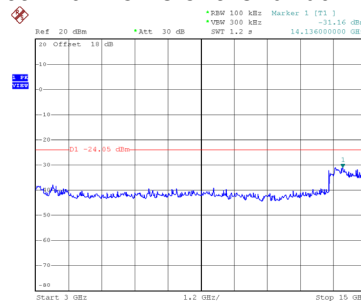


Date: 24.FEB.2024 14:35:50

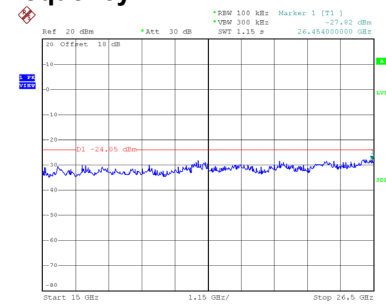
CH01 – 10th Harmonic of the fundamental frequency



Date: 24.FEB.2024 15:02:47

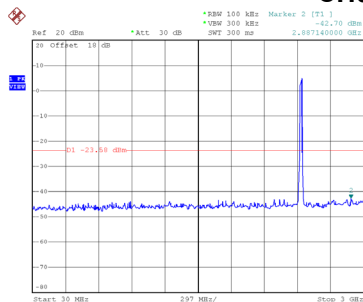


Date: 24.FEB.2024 15:03:20

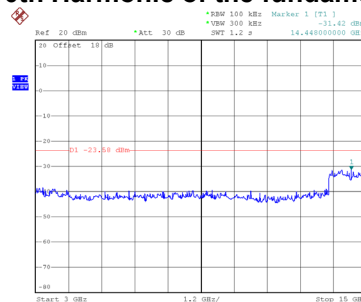


Date: 24.FEB.2024 15:03:49

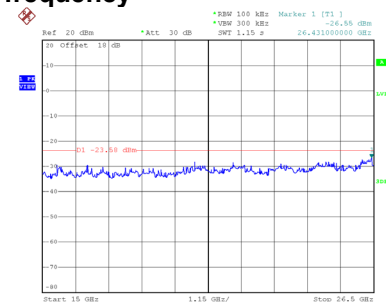
CH06 – 10th Harmonic of the fundamental frequency



Date: 24.FEB.2024 15:04:55

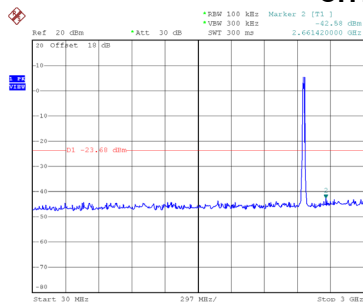


Date: 24.FEB.2024 15:05:24

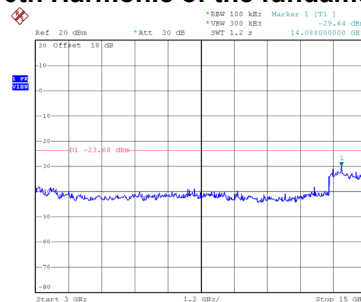


Date: 24.FEB.2024 15:05:50

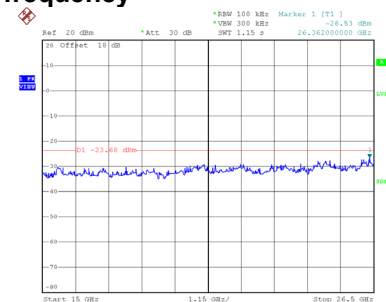
CH11 – 10th Harmonic of the fundamental frequency



Date: 24.FEB.2024 15:07:12



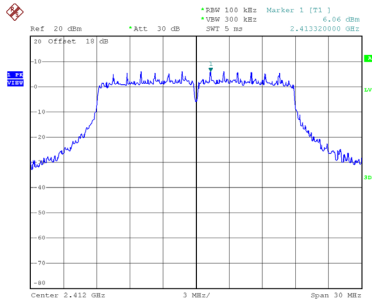
Date: 24.FEB.2024 15:07:42



Date: 24.FEB.2024 15:08:41

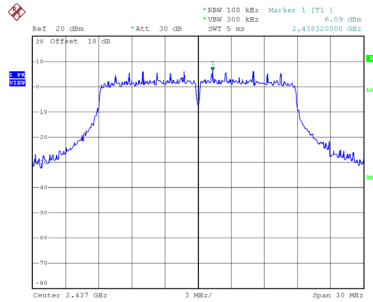
Test Mode TX N(HT20) Mode

Reference Level-CH01



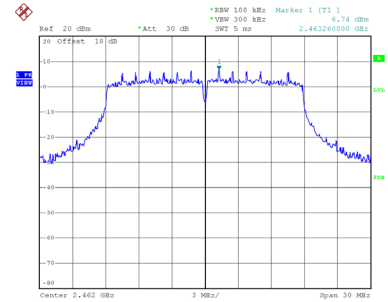
Date: 24.FEB.2024 14:07:41

Reference Level-CH06



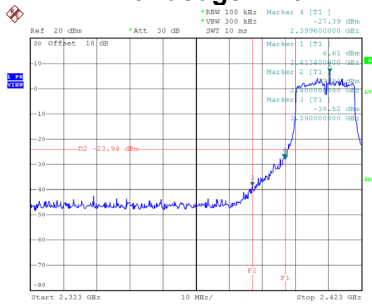
Date: 24.FEB.2024 14:08:10

Reference Level-CH11



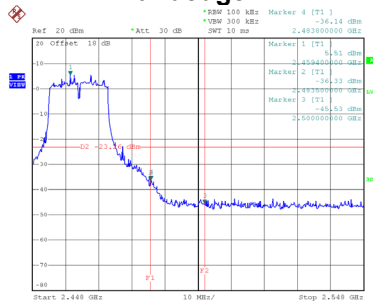
Date: 24.FEB.2024 14:08:41

Bandedge-CH01



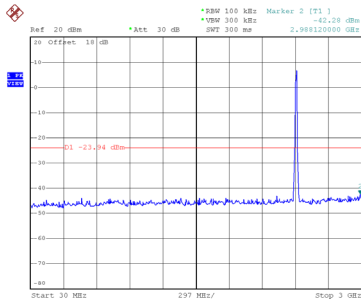
Date: 24.FEB.2024 14:37:28

Bandedge-CH11

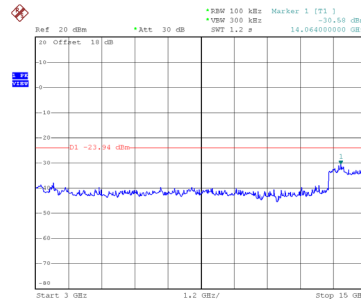


Date: 24.FEB.2024 14:40:59

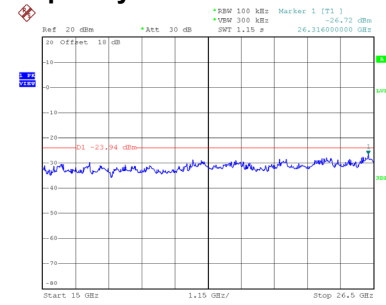
CH01 – 10th Harmonic of the fundamental frequency



Date: 24.FEB.2024 15:11:26

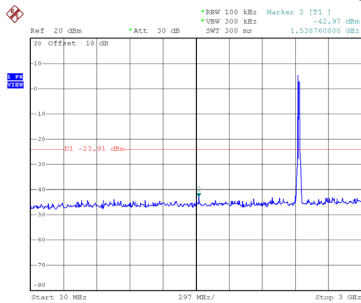


Date: 24.FEB.2024 15:12:01

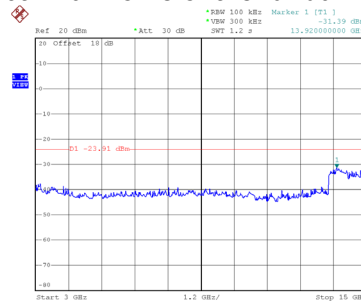


Date: 24.FEB.2024 15:12:27

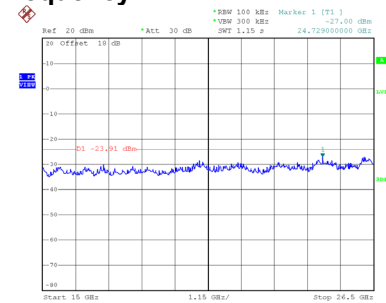
CH06 – 10th Harmonic of the fundamental frequency



Date: 24.FEB.2024 15:13:13

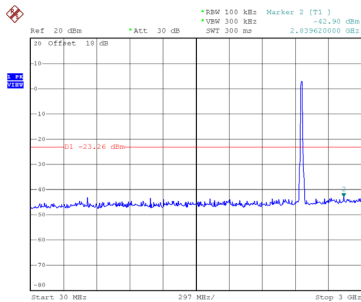


Date: 24.FEB.2024 15:13:42

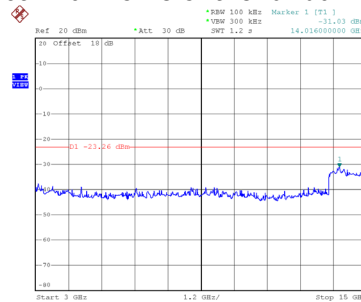


Date: 24.FEB.2024 15:14:22

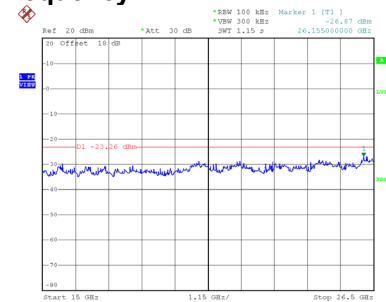
CH11 – 10th Harmonic of the fundamental frequency



Date: 24.FEB.2024 15:15:17



Date: 24.FEB.2024 15:15:48

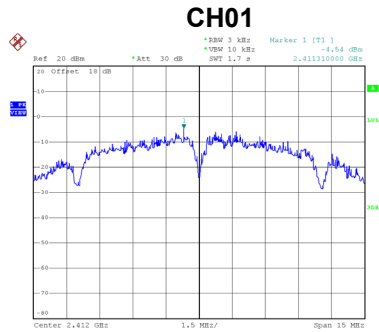


Date: 24.FEB.2024 15:18:01

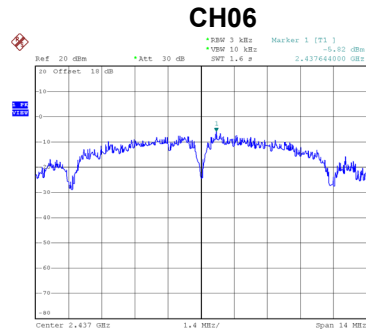
APPENDIX H - POWER SPECTRAL DENSITY

Test Mode	TX B Mode
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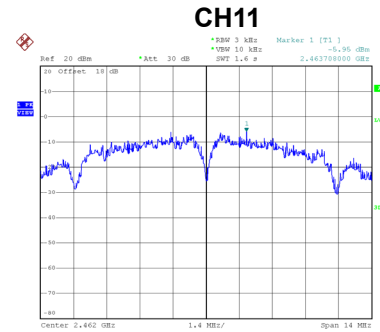
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-4.54	8.00	Complies
06	2437	-5.82	8.00	Complies
11	2462	-5.95	8.00	Complies



Date: 24.FEB.2024 13:54:47



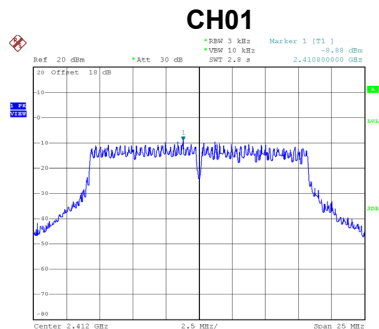
Date: 24.FEB.2024 13:55:42



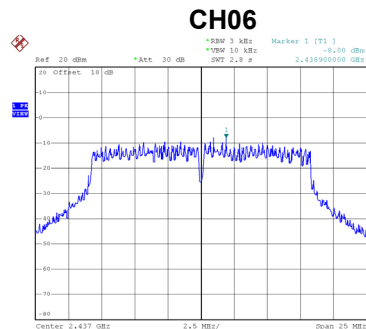
Date: 24.FEB.2024 13:56:21

Test Mode	TX G Mode
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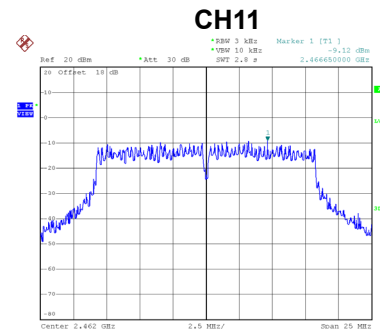
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-8.88	8.00	Complies
06	2437	-8.00	8.00	Complies
11	2462	-9.12	8.00	Complies



Date: 24.FEB.2024 13:58:45



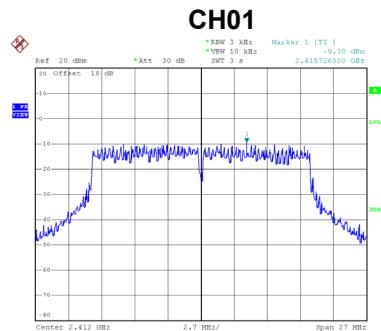
Date: 24.FEB.2024 13:59:31



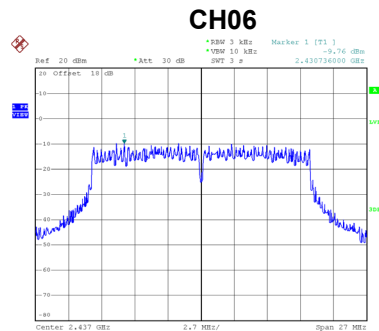
Date: 24.FEB.2024 14:00:00

Test Mode	TX N(HT20) Mode
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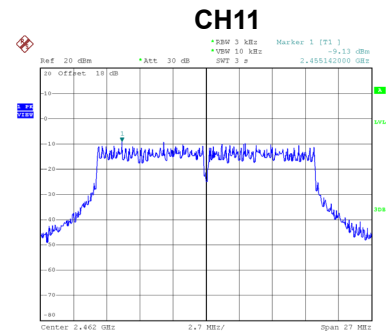
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	2412	-9.30	8.00	Complies
06	2437	-9.76	8.00	Complies
11	2462	-9.13	8.00	Complies



Date: 24.FEB.2024 14:01:18



Date: 24.FEB.2024 14:02:00



Date: 24.FEB.2024 14:02:54

End of Test Report