

Product Name: AX1800 High Gain Wireless USB Adapter	Report No: FCC022022-5392RF1
Product Model: Archer TX20UH	Security Classification: Open
Version: V1.1	Total Page:145

TIRT Testing Report



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FCC Radio Test Report

FCC ID: 2AXJ4TX20UH

This report concerns: Original Grant

Project No. : 022022-5392
Equipment : AX1800 High Gain Wireless USB Adapter
Brand Name : TP-Link
Test Model : Archer TX20UH
Series Model : N/A
Applicant : TP-Link Corporation Limited
Address : Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road,
Tsim Sha Tsui, Kowloon, Hong Kong
Manufacturer : TP-Link Corporation Limited
Address : Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road,
Tsim Sha Tsui, Kowloon, Hong Kong
Date of Test : 2022.07.01-2022.10.16
Issued Date : 2022.10.24
Report Version : V1.1
Test Sample : Engineering Sample No.: 20220713018157
Standard(s) : FCC CFR Title 47, Part 15, Subpart C
FCC KDB 558074 D01 15.247 Meas Guidance v05r02
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10-2013

- The test result referred exclusively to the presented test model /sample.
- Without written approval of TIRT Inc. the test report shall not reproduced except in full.

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Table of Contents	Page
REPORT ISSUED HISTORY	6
1 . SUMMARY OF TEST RESULTS	7
1.1 TEST LOCATION	8
1.2 MEASUREMENT UNCERTAINTY	8
1.3 TEST ENVIRONMENT CONDITIONS	8
2 . GENERAL INFORMATION	9
2.1 GENERAL DESCRIPTION OF EUT	9
2.2 DESCRIPTION OF TEST MODES	11
2.3 PARAMETERS OF TEST SOFTWARE	13
2.4 DUTY CYCLE	14
2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	16
2.6 SUPPORT UNITS	16
3 . AC POWER LINE CONDUCTED EMISSIONS	17
3.1 LIMIT	17
3.2 TEST PROCEDURE	17
3.3 DEVIATION FROM TEST STANDARD	17
3.4 TEST SETUP	18
3.5 EUT OPERATION CONDITIONS	18
3.6 TEST RESULTS	18
4 . RADIATED EMISSIONS	19
4.1 LIMIT	19
4.2 TEST PROCEDURE	20
4.3 DEVIATION FROM TEST STANDARD	21
4.4 TEST SETUP	21
4.5 EUT OPERATION CONDITIONS	22
4.6 TEST RESULTS - 9 KHZ TO 30 MHZ	22
4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ	22
4.8 TEST RESULTS - ABOVE 1000 MHZ	22
5 . BANDWIDTH	23
5.1 LIMIT	23
5.2 TEST PROCEDURE	23
5.3 DEVIATION FROM STANDARD	23
5.4 TEST SETUP	23

Table of Contents	Page
5.5 EUT OPERATION CONDITIONS	23
5.6 TEST RESULTS	23
6 . MAXIMUM OUTPUT POWER & E.I.R.P.	24
6.1 LIMIT	24
6.2 TEST PROCEDURE	24
6.3 DEVIATION FROM STANDARD	24
6.4 TEST SETUP	24
6.5 EUT OPERATION CONDITIONS	24
6.6 TEST RESULTS	24
7 . CONDUCTED SPURIOUS EMISSIONS	25
7.1 LIMIT	25
7.2 TEST PROCEDURE	25
7.3 DEVIATION FROM STANDARD	25
7.4 TEST SETUP	25
7.5 EUT OPERATION CONDITIONS	25
7.6 TEST RESULTS	25
8 . POWER SPECTRAL DENSITY	26
8.1 LIMIT	26
8.2 TEST PROCEDURE	26
8.3 DEVIATION FROM STANDARD	26
8.4 TEST SETUP	26
8.5 EUT OPERATION CONDITIONS	26
8.6 TEST RESULTS	26
9 . MEASUREMENT INSTRUMENTS LIST	27
10 . EUT TEST PHOTO	28
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS	32
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ	35
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ	36
APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ	39
APPENDIX E - BANDWIDTH	100
APPENDIX F - MAXIMUM AVERAGE OUTPUT POWER	107
APPENDIX G - CONDUCTED SPURIOUS EMISSIONS	114

Table of Contents**Page****APPENDIX H - POWER SPECTRAL DENSITY****139**

REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
FCC022022-5392RF1	V1.0	Original Report.	2022.10.19	Valid
FCC022022-5392RF1	V1.1	Revised comments of TCB.	2022.10.24	Valid

1. 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.

1.1 TEST LOCATION

Company:	Beijing TIRT Technology Service Co., Ltd Shenzhen
Address:	101,3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street, Pingshan District, Shenzhen, China
CNAS Registration Number:	CNAS L14158
A2LA Registration Number	6049.01
Telephone:	+86-0755-27087573

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$))

The TIRT measurement uncertainty as below table:

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	± 142.12 KHz
RF power conducted	± 0.74 dB
RF power radiated	± 3.25 dB
Spurious emissions, conducted	± 1.78 dB
Spurious emissions, radiated (30MHz~1GHz)	± 4.6 dB
Spurious emissions, radiated (1GHz ~ 18GHz)	± 4.9 dB
Conduction Emissions(150kHz~30MHz)	± 3.1 dB
Humidity	$\pm 4.6\%$
Temperature	$\pm 0.7^{\circ}\text{C}$
Time	$\pm 1.25\%$

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	24.4°C	56%	5V DC	Stone Tang
Radiated Emissions-9kHz to 30 MHz	24.6°C	55%	5V DC	Stone Tang
Radiated Emissions-30MHz to 1000MHz	24.6°C	55%	5V DC	Stone Tang
Radiated Emissions-Above 1000MHz	24.6°C	55%	5V DC	Stone Tang
Bandwidth	24.2°C	54%	5V DC	Stone Tang
Maximum Output Power	24.2°C	54%	5V DC	Stone Tang
Conducted Spurious Emissions	24.2°C	54%	5V DC	Stone Tang
Power Spectral Density	24.2°C	54%	5V DC	Stone Tang

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AX1800 High Gain Wireless USB Adapter
Brand Name	TP-Link
Test Model	Archer TX20UH
Series Model	N/A
Model Difference(s)	N/A
Software Version	V1.0
Hardware Version	V1.0
Power Source	Supplied from PC USB port.
Power Rating	DC 5V
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE 802.11ax: OFDMA
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ax: up to 573.6 Mbps
Maximum Output Power CDD	IEEE 802.11b: 17.86 dBm (0.0611 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), IEEE 802.11ax(HE20) CH03 - CH09 for IEEE 802.11n(HT40), IEEE 802.11ax(HE40)							
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	Model Name	Antenna Type	Connector	Gain (dBi)
1	Tp-link	P/N	Dipole	N/A	0.61
2	Tp-link	P/N	Dipole	N/A	0.74

Note:

- This EUT supports CDD, and all antenna gains are not equal, Directional gain= $G_{ANT} + \text{Array Gain}$, For power measurements, $\text{Array Gain} = 0\text{dB} (N_{ANT} \leq 4)$, so the Directional gain=0.74. For power spectral density measurements, $N_{ANT}=2$, $N_{SS}=1$. Then the Directional gain= $G_{ANT} + 10\log(N_{ANT}/N_{SS})\text{dBi} = 0.74 + 10\log(2/1)\text{dBi} = 3.75$.
- The antenna gain are provided by the manufacturer.

4. Table for Antenna Configuration:

Operating Mode	TX Mode
IEEE 802.11b	V (Ant. 1 + Ant. 2)
IEEE 802.11g	V (Ant. 1 + Ant. 2)
IEEE 802.11n(HT20)	V (Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)	V (Ant. 1 + Ant. 2)
IEEE 802.11ax(HE20)	V (Ant. 1 + Ant. 2)
IEEE 802.11ax(HE40)	V (Ant. 1 + Ant. 2)

2.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX N(HT20) Mode Channel 01/06/11
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09
Mode 7	TX B Mode Channel 11
Mode 8	TX B Mode Channel 01/02/06/10/11
Mode 9	TX G Mode Channel 01/02/06/10/11
Mode 10	TX N(HT20) Mode Channel 01/02/06/10/11
Mode 11	TX N(HT40) Mode Channel 03/04/06/08/09
Mode 12	TX AX(HE20) Mode Channel 01/02/06/10/11
Mode 13	TX AX(HE40) Mode Channel 03/04/06/08/09

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 B Mode Channel 11

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 7	TX B Mode Channel 11

Radiated emissions test- Above 1GHz	
Final Test Mode	Description
Mode 1	TX B Mode Channel 01/02/06/10/11
Mode 2	TX G Mode Channel 01/02/06/10/11
Mode 3	TX N(HT20) Mode Channel 01/02/06/10/11
Mode 4	TX N(HT40) Mode Channel 03/04/06/08/09

Mode 5	TX AX(HE20) Mode Channel 01/02/06/10/11
Mode 6	TX AX(HE40) Mode Channel 03/04/06/08/09

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
Mode 4	TX N(HT40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 01/06/11
Mode 6	TX AX(HE40) Mode Channel 03/06/09

NOTE:

- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the IEEE 802.11b channel 11 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) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.
- (5) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical and recorded.
- (6) For above1G, the worst results were found when the antenna(Ant 0+1) opened at 90° and recorded.

2.3 PARAMETERS OF TEST SOFTWARE

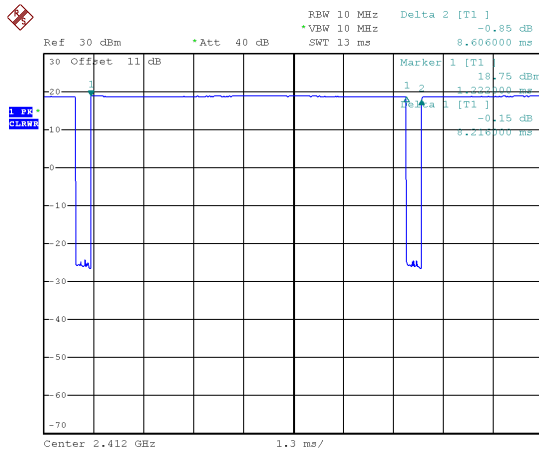
CDD

Test Software Version	RTL8852A_USB_MP_Package_ALPHA_v1.1.26-1		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	14	14	14
IEEE 802.11g	14	14	14
IEEE 802.11n(HT20)	14	14	14
IEEE 802.11ax(HE20)	16	16	16
Frequency (MHz)	2422	2437	2452
IEEE 802.11n(HT40)	14	14	13.5
IEEE 802.11ax(HE40)	16.5	16.5	13

2.4 DUTY CYCLE

If duty cycle is $\geq 98\%$, duty factor is not required.
If duty cycle is $< 98\%$, duty factor shall be considered.
The output power = measured power + duty factor.

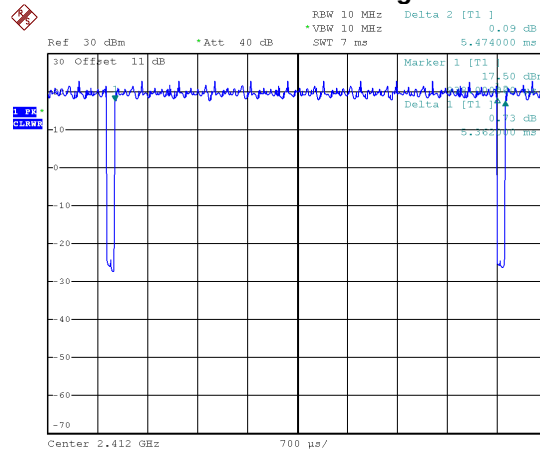
IEEE 802.11b



Date: 21.SEP.2022 16:20:23

Duty cycle = 8.216 ms / 8.606 ms = 95.47%
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.20$

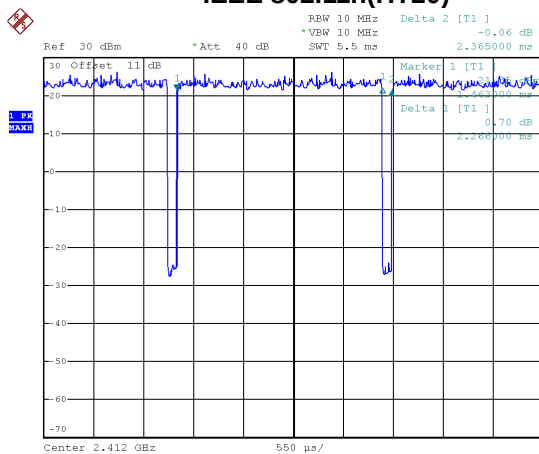
IEEE 802.11g



Date: 21.SEP.2022 16:21:15

Duty cycle = 5.362 ms / 5.474 ms = 97.95%
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.09$

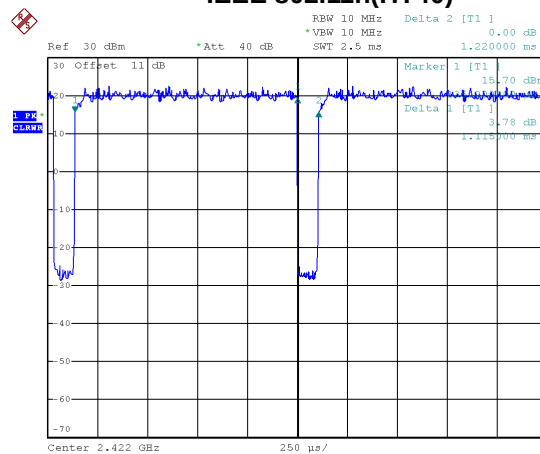
IEEE 802.11n(HT20)



Date: 21.SEP.2022 17:44:07

Duty cycle = 2.266 ms / 2.365 ms = 95.81%
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.19$

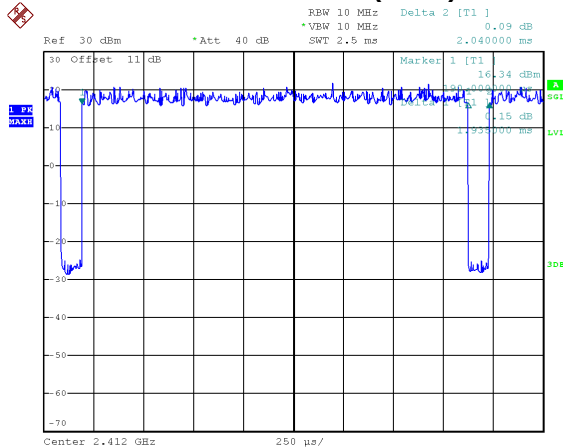
IEEE 802.11n(HT40)



Date: 21.SEP.2022 20:06:44

Duty cycle = 1.115 ms / 1.220 ms = 91.39%
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.39$

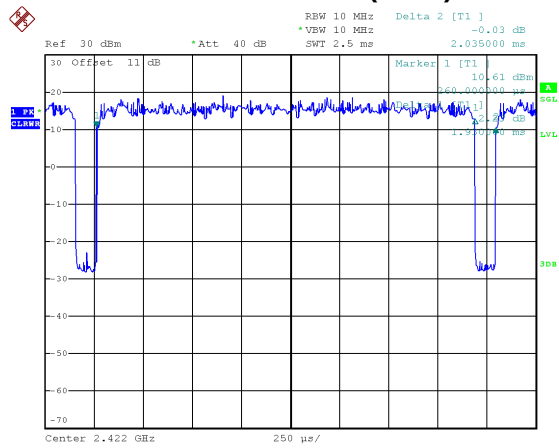
IEEE 802.11ax(HE20)



Date: 22.SEP.2022 15:28:25

Duty cycle = 1.935 ms / 2.040 ms = 94.85%
Duty Factor = 10 log(1/Duty cycle) = 0.23

IEEE 802.11ax(HE40)



Date: 21.SEP.2022 16:26:37

Duty cycle = 1.930 ms / 2.035 ms = 94.84%
Duty Factor = 10 log(1/Duty cycle) = 0.23

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 122Hz.

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 186Hz.

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 441Hz.

For IEEE 802.11n(HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 897Hz.

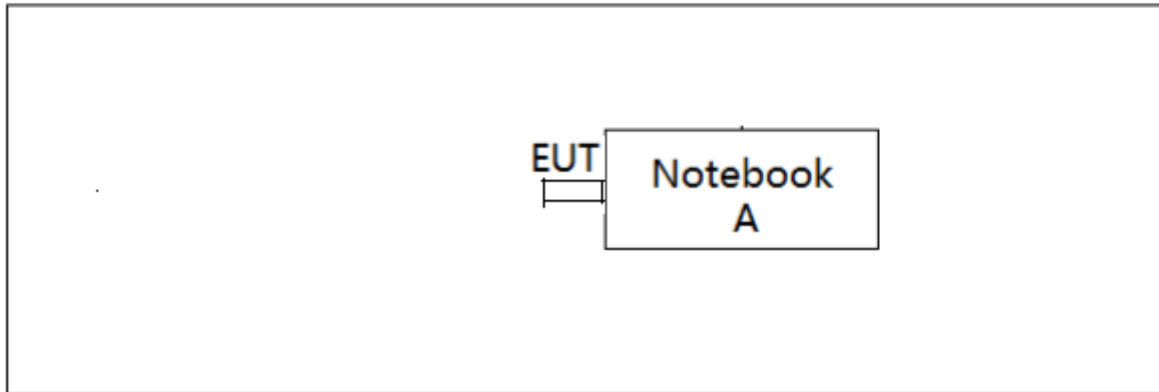
For IEEE 802.11ax(HE20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 517Hz.

For IEEE 802.11ax(HE40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 518Hz.

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Control PC	Lenovo	L450	N/A
2	Record PC	Lenovo	510Pro-15ICK	N/A

3. AC POWER LINE CONDUCTED EMISSIONS

3.1 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.

3.2 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.

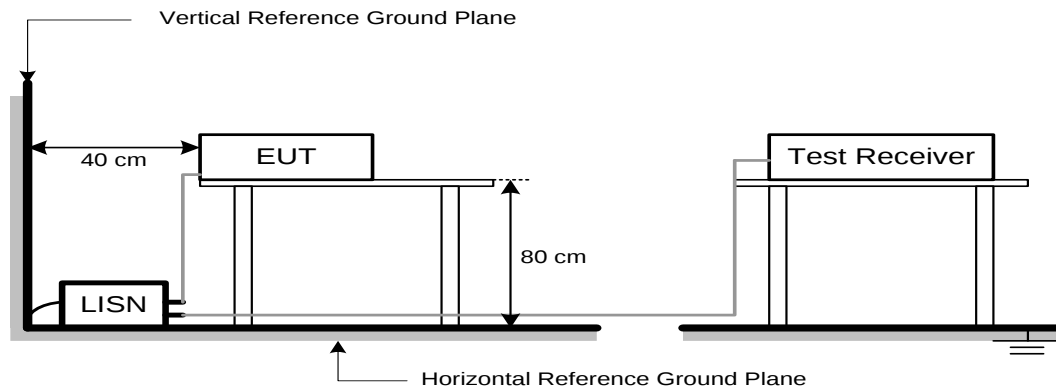
The following table is the setting of the receiver:

Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

4. RADIATED EMISSIONS

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a) , then the 15.209(a) and 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)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

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).

4.2 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 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 1 GHz)
- 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

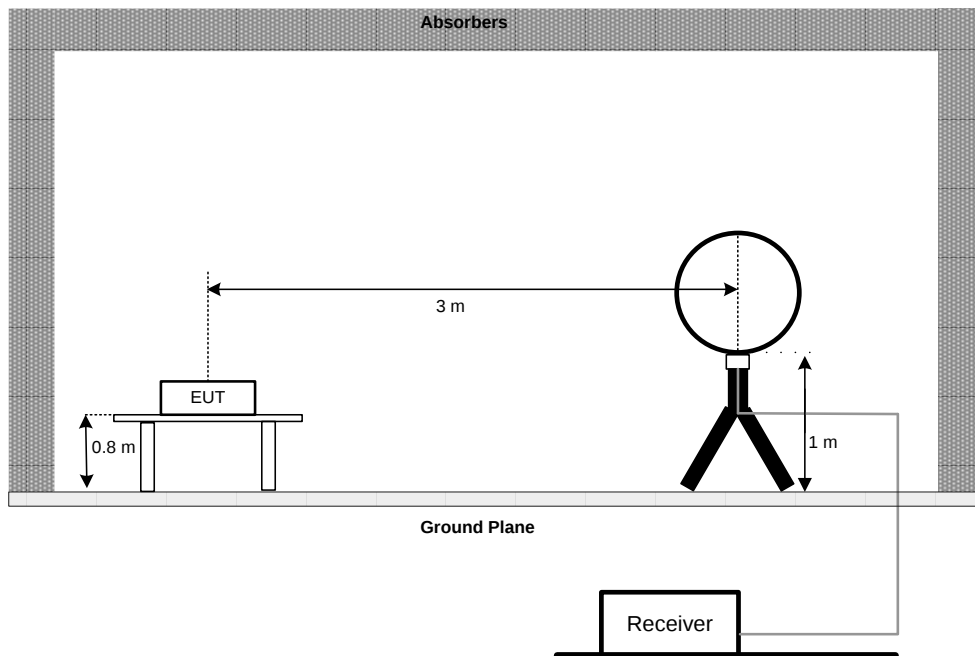
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

4.3 DEVIATION FROM TEST STANDARD

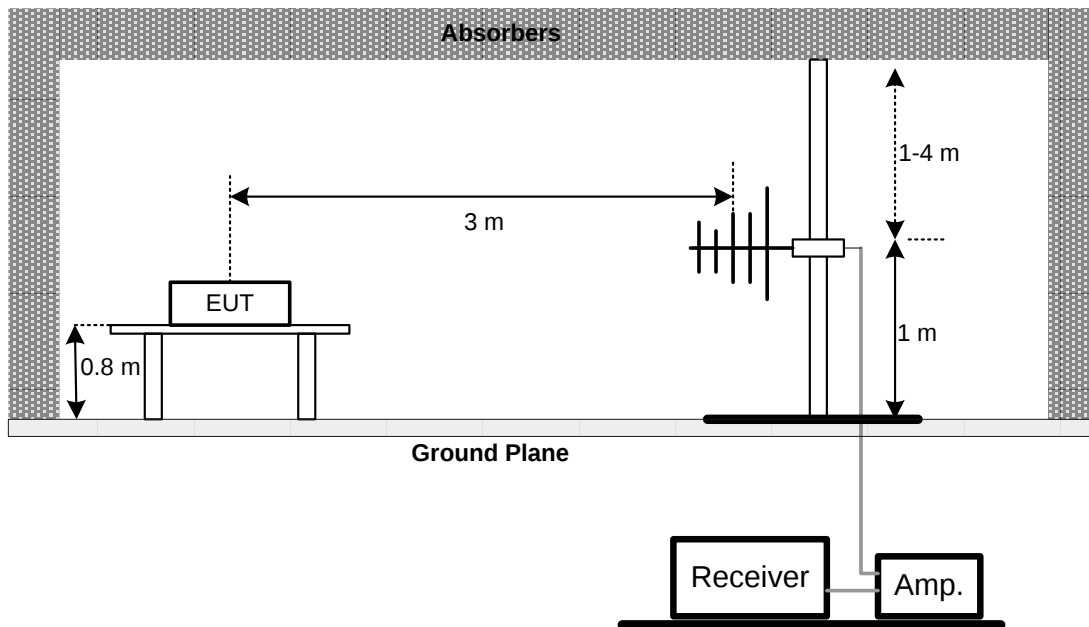
No deviation.

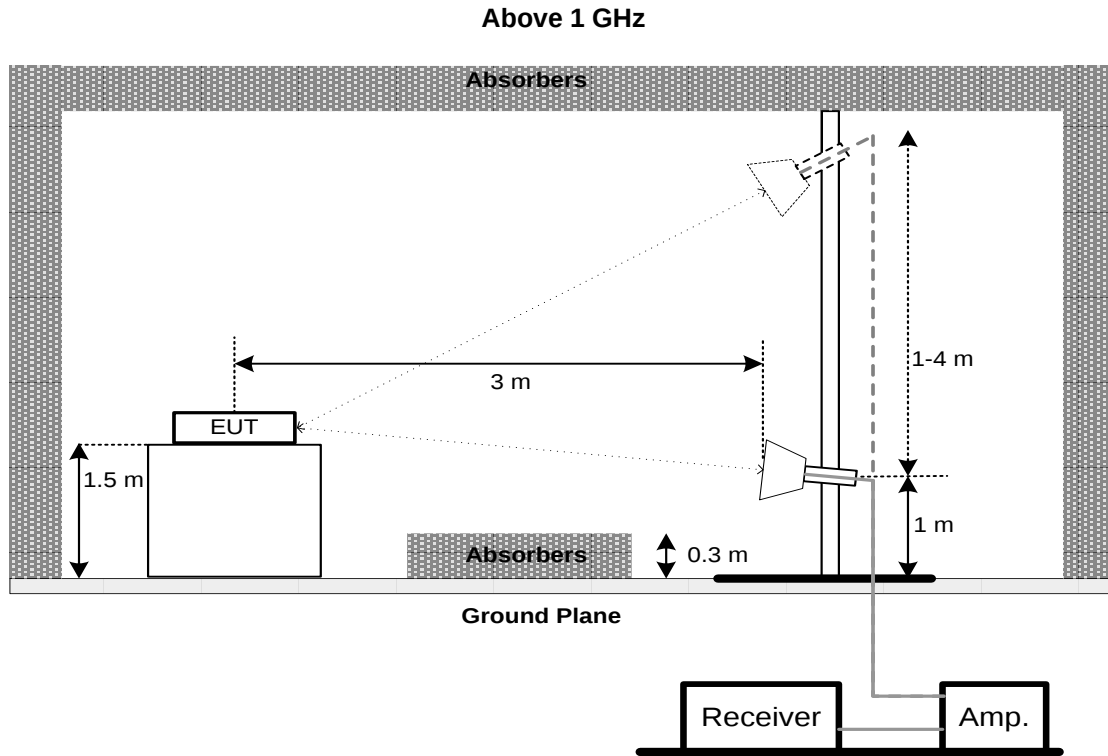
4.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





4.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 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.

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 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.

5. BANDWIDTH

5.1 LIMIT

Section	Test Item	Limit
FCC 15.247(a)(2)	6 dB Bandwidth	Minimum 500 kHz
	99% Emission Bandwidth	-

5.2 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

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM OUTPUT POWER & E.I.R.P.

6.1 LIMIT

Section	Test Item	Limit
FCC 15.247(b)(3)	Maximum Output Power	1.0000 Watt or 30.00 dBm

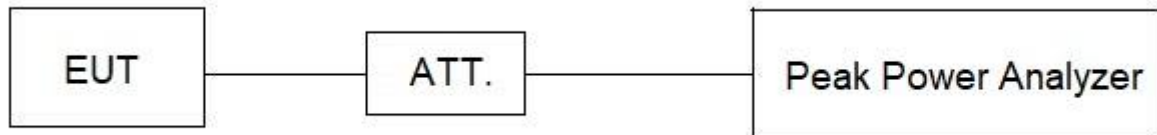
6.2 TEST PROCEDURE

- 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 (for AVG power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

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 F.

7. CONDUCTED SPURIOUS EMISSIONS

7.1 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.

7.2 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 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

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

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 G.

8. POWER SPECTRAL DENSITY

8.1 LIMIT

Section	Test Item	Limit
FCC 15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

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
Span Frequency	25 MHz (20 MHz) / 60 MHz (40 MHz)
RBW	3 kHz
VBW	10 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 H.

9. MEASUREMENT INSTRUMENTS LIST

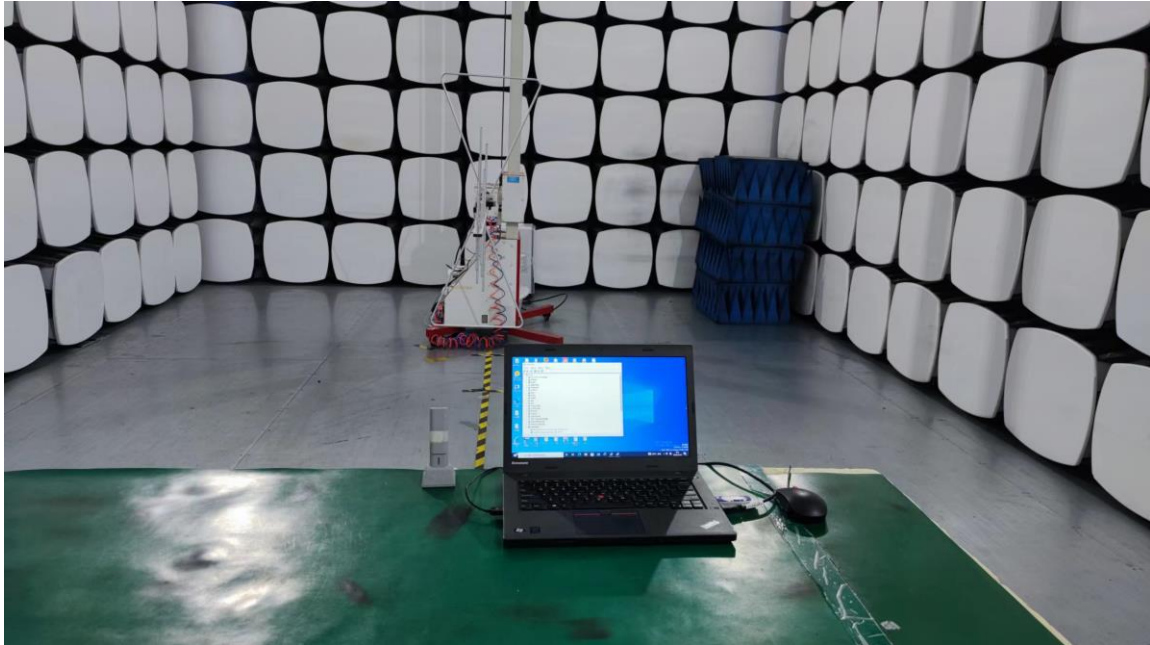
No.	Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Receiver	Rohde&Schwarz	ESCI	1166.5950.03	2022/11/09
2	AMN	Rohde&Schwarz	ENV216	3560.6550.05	2022/11/09
3	AMN	Schwarzbeck	NSLK8127	#829	2022/11/09
4	ECSI RF IN RF Cable	Rohde&Schwarz	RP-X1	N/A	2022/11/09
5	ECSI RF IN RF Cable	Rohde&Schwarz	Sapre sm	N/A	2022/11/09
6	EMI Receiver	Rohde&Schwarz	ESR7	102013	2022/11/09
7	Spectrum analyzer	Rohde&Schwarz	FSV30	103741	2022/11/09
8	Spectrum analyzer	KEYSIGHT	N9010A-44	MY51440158	2022/11/09
9	Integral Antenna	Schwarzbeck	VULB 9163	VULB 9163-361	2022/11/20
10	Integral Antenna	Schwarzbeck	BBHA 9120D	BBHA 9120D 1201	2022/11/20
11	Integral Antenna	Schwarzbeck	BBHA 9170	9170#685	2022/11/20
12	Preamplifier	Schwarzbeck	BBV9745	#78	2022/11/09
13	Preamplifier	Schwarzbeck	BBV9721	9721-019	2022/11/09
14	Preamplifier	RF System/UK	TRLA-0101 80G50B	22062101	2023/07/20
15	ECSI RF IN RF Cable	Rohde&Schwarz	AP-X1	N/A	2022/11/09
16	ECSI RF IN RF Cable	HAOXUN	Z-108	N/A	2022/11/09
17	RF Cable	ZDECL	ZT40-2.92J -2.92J-6M	18124358	2023/07/20
18	Spectrum Analyzer	Agilent	N9010A	MY51440158	2022/11/09
19	Spectrum Analyzer	Agilent	N9010A	MY52221119	2022/11/09
20	EMI Receiver	Rohde&Schwarz	ESU	100184	2023/07/20
21	Temp&Humidity Recorder	Anymetre	JR900	N/A	2022/11/03
22	Temp&Humidity Chamber	ETOMA	NTH1100-3 0A	16080628	2022/11/03
23	Filter	STI	STI15-9845	N/A	N/A
24	Filter	STI	5.1G	N/A	N/A
25	Filter	STI	STI15-9845	N/A	N/A
26	Testing Software	EZ-EMC	TW-03A2	N/A	N/A

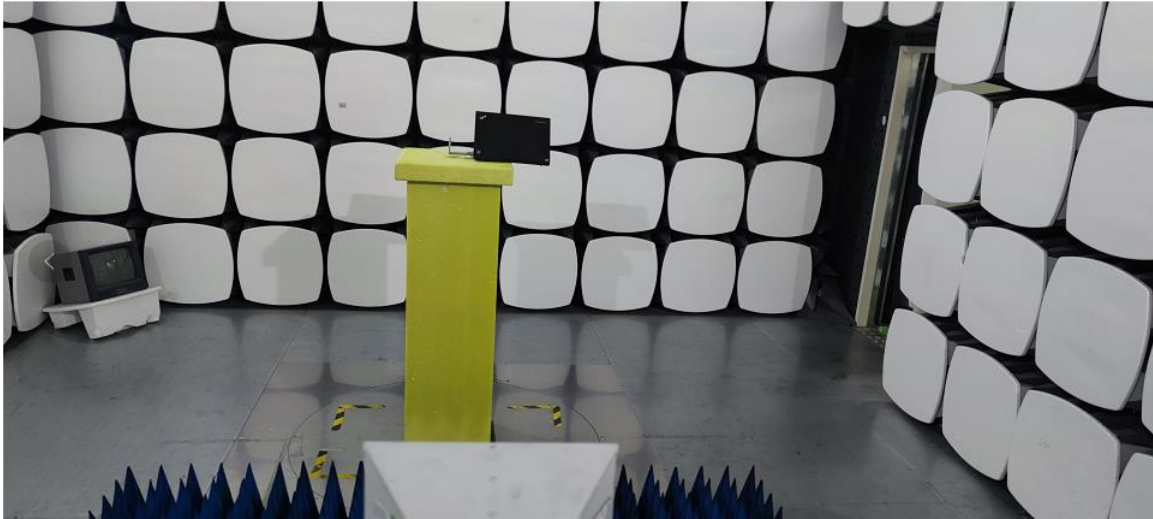
Remark: "N/A" denotes no model name, serial no. or calibration specified.

"**" calibration period of equipment list is three year.

Except * item, all calibration period of equipment list is one year.

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

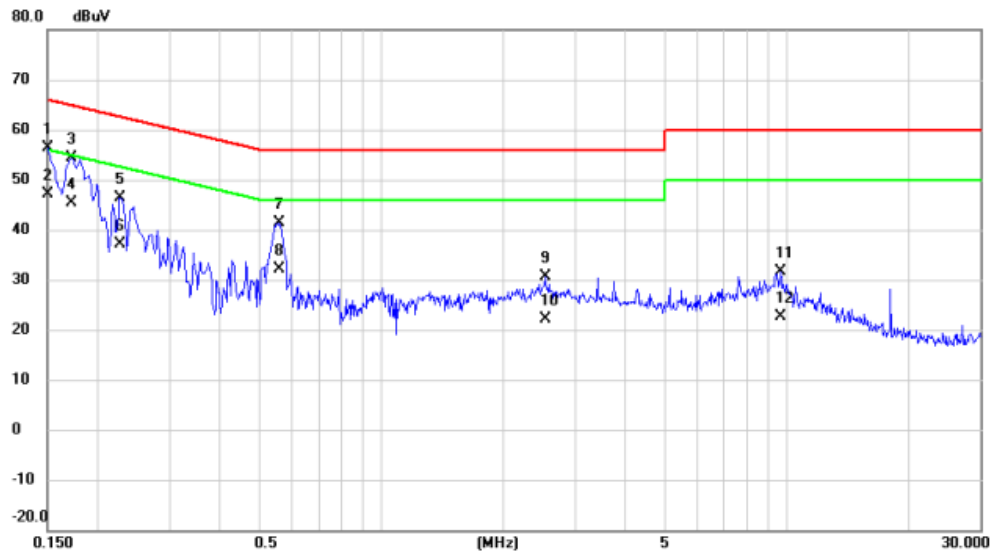
Radiated Emissions Test Photos**30 MHz to 1 GHz**

Radiated Emissions Test Photos**Above 1 GHz**

Conducted Test Photos

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX B Mode Channel 11	Phase	Line
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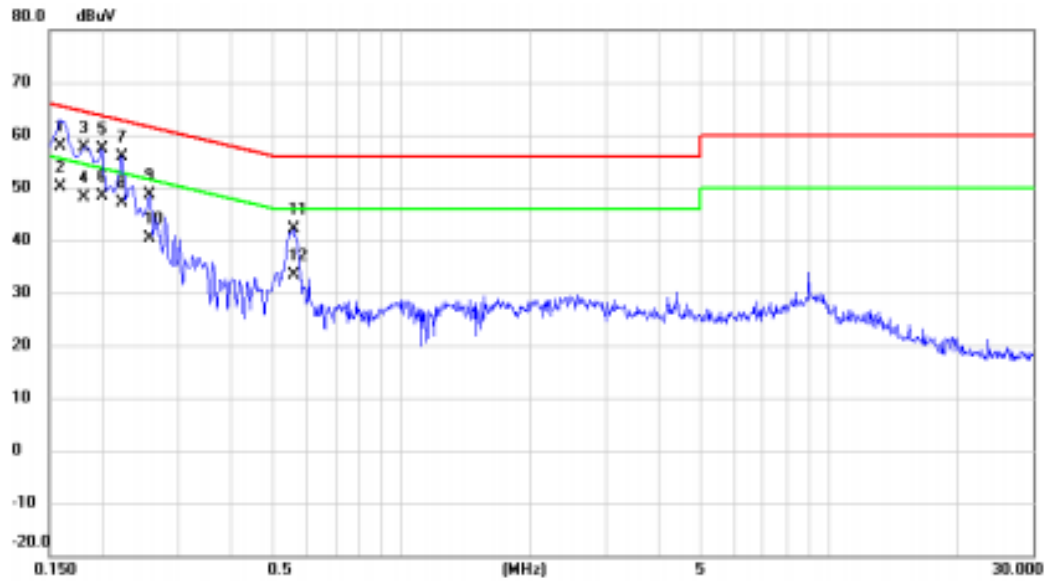


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1500	37.21	19.27	56.48	66.00	-9.52	QP	
2 *	0.1500	27.88	19.27	47.15	56.00	-8.85	AVG	
3	0.1725	35.18	19.31	54.49	64.84	-10.35	QP	
4	0.1725	25.98	19.31	45.29	54.84	-9.55	AVG	
5	0.2265	26.97	19.32	46.29	62.58	-16.29	QP	
6	0.2265	17.88	19.32	37.20	52.58	-15.38	AVG	
7	0.5595	22.03	19.36	41.39	56.00	-14.61	QP	
8	0.5595	12.88	19.36	32.24	46.00	-13.76	AVG	
9	2.5350	9.58	21.03	30.61	56.00	-25.39	QP	
10	2.5350	0.98	21.03	22.01	46.00	-23.99	AVG	
11	9.6315	10.80	20.76	31.56	60.00	-28.44	QP	
12	9.6315	1.88	20.76	22.64	50.00	-27.36	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The test result has included the cable loss.

Test Mode	TX B Mode Channel 11	Phase	Neutral
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1590	38.61	19.29	57.90	65.52	-7.62	QP	
2		0.1590	30.91	19.29	50.20	55.52	-5.32	AVG	
3		0.1815	38.34	19.31	57.65	64.42	-6.77	QP	
4		0.1815	28.91	19.31	48.22	54.42	-6.20	AVG	
5		0.1995	38.05	19.31	57.36	63.63	-6.27	QP	
6	*	0.1995	29.01	19.31	48.32	53.63	-5.31	AVG	
7		0.2220	36.51	19.31	55.82	62.74	-6.92	QP	
8		0.2220	27.91	19.31	47.22	52.74	-5.52	AVG	
9		0.2580	29.20	19.32	48.52	61.50	-12.98	QP	
10		0.2580	21.01	19.32	40.33	51.50	-11.17	AVG	
11		0.5595	22.80	19.36	42.16	56.00	-13.84	QP	
12		0.5595	13.91	19.36	33.27	46.00	-12.73	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The test result has included the cable loss.

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

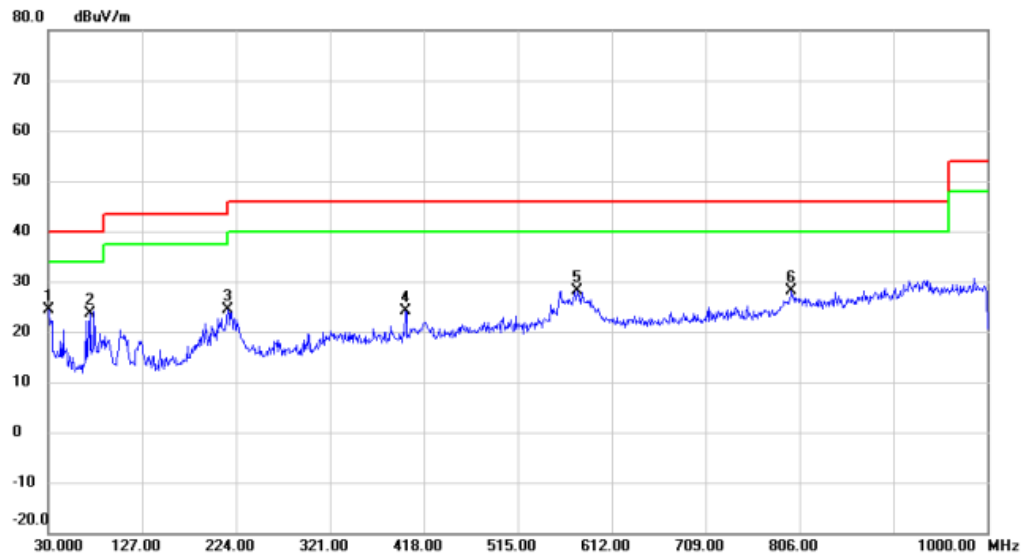
Radiated emission: 9KHz-30MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode	TX B Mode Channel 11	Polarization	Vertical
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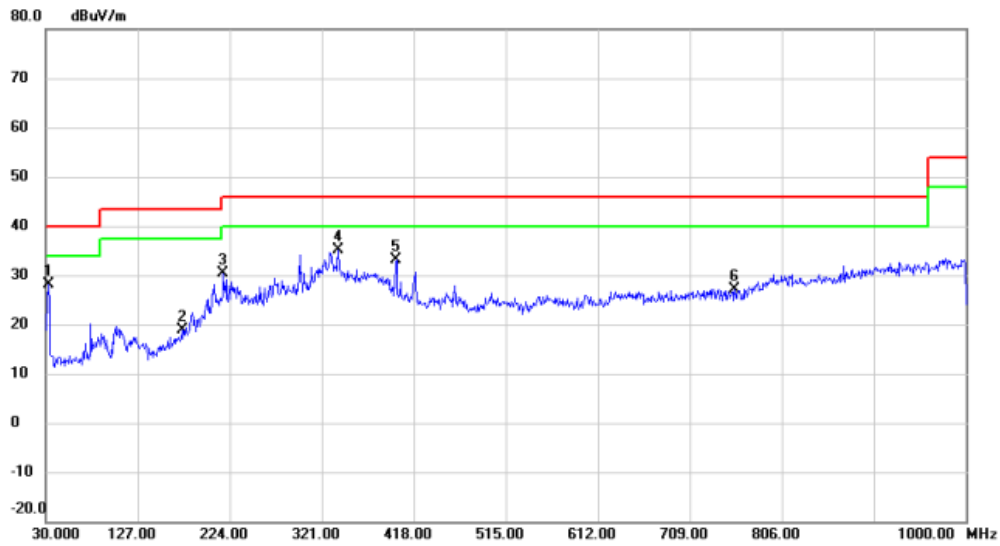


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	30.9700	10.14	14.25	24.39	40.00	-15.61	peak	
2		73.6500	9.04	14.71	23.75	40.00	-16.25	peak	
3		215.2700	8.45	15.83	24.28	43.50	-19.22	peak	
4		398.6000	4.99	19.22	24.21	46.00	-21.79	peak	
5		576.1100	6.09	22.05	28.14	46.00	-17.86	peak	
6		797.2700	1.40	26.70	28.10	46.00	-17.90	peak	

REMARKS:

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

Test Mode	TX B Mode Channel 11	Polarization	Horizontal
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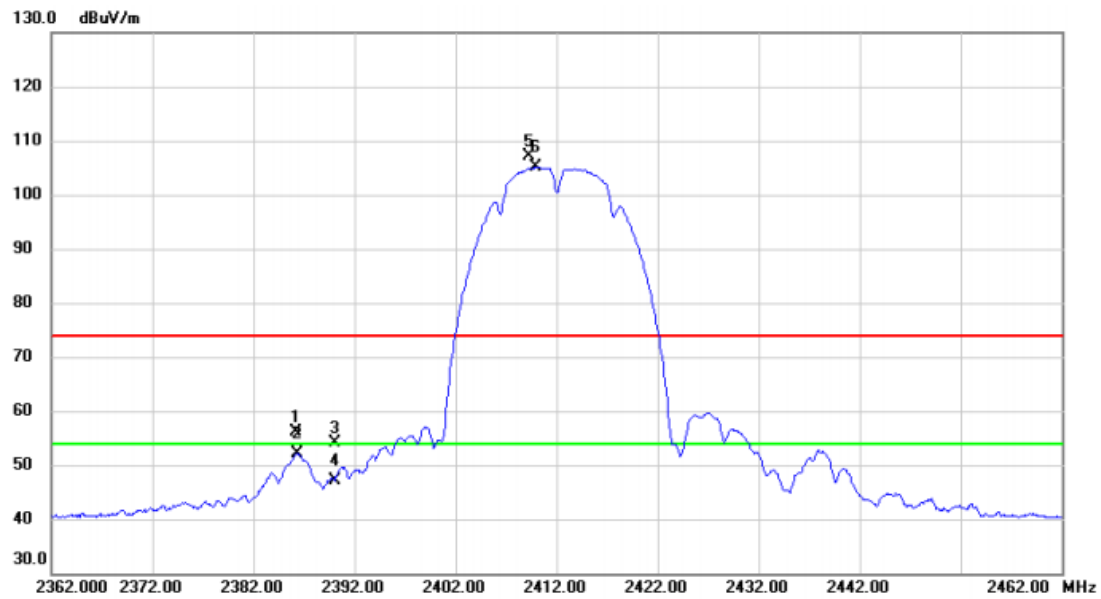
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	32.9100	16.91	11.32	28.23	40.00	-11.77	peak	
2	173.5600	4.78	14.06	18.84	43.50	-24.66	peak	
3	217.2100	14.56	15.85	30.41	46.00	-15.59	peak	
4 *	338.4600	16.61	18.55	35.16	46.00	-10.84	peak	
5	399.5700	13.80	19.23	33.03	46.00	-12.97	peak	
6	755.5600	1.93	25.11	27.04	46.00	-18.96	peak	

REMARKS:

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

APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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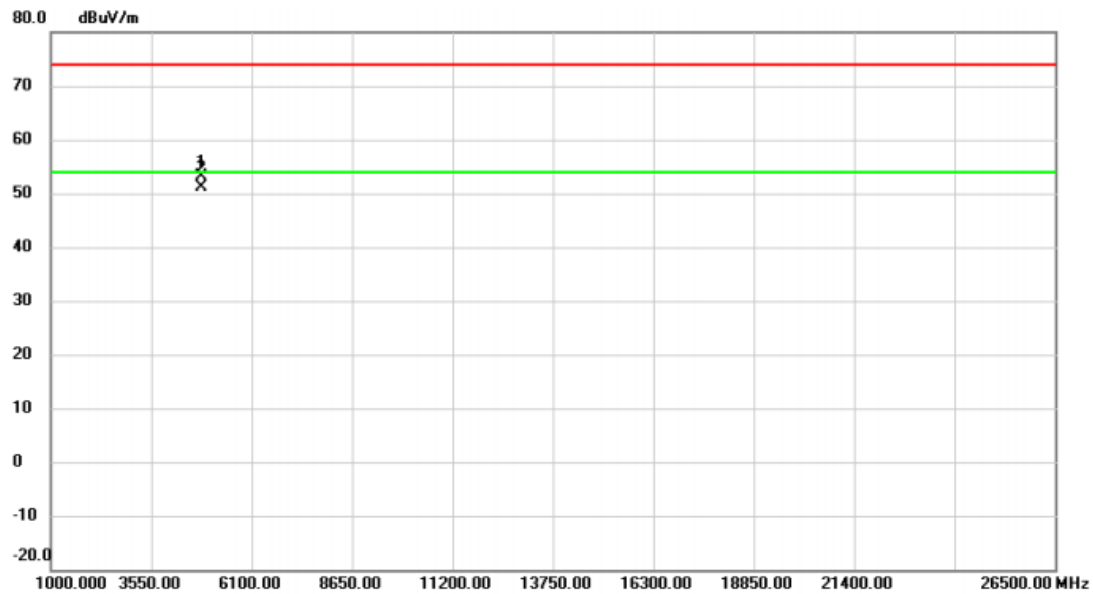


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2386.200	23.56	32.62	56.18	74.00	-17.82	peak	
2		2386.300	19.57	32.62	52.19	54.00	-1.81	AVG	
3		2390.000	21.60	32.63	54.23	74.00	-19.77	peak	
4		2390.000	14.60	32.63	47.23	54.00	-6.77	AVG	
5	X	2409.300	74.40	32.70	107.10	74.00	33.10	peak	No Limit
6	*	2409.900	72.40	32.70	105.10	54.00	51.10	AVG	No Limit

REMARKS:

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

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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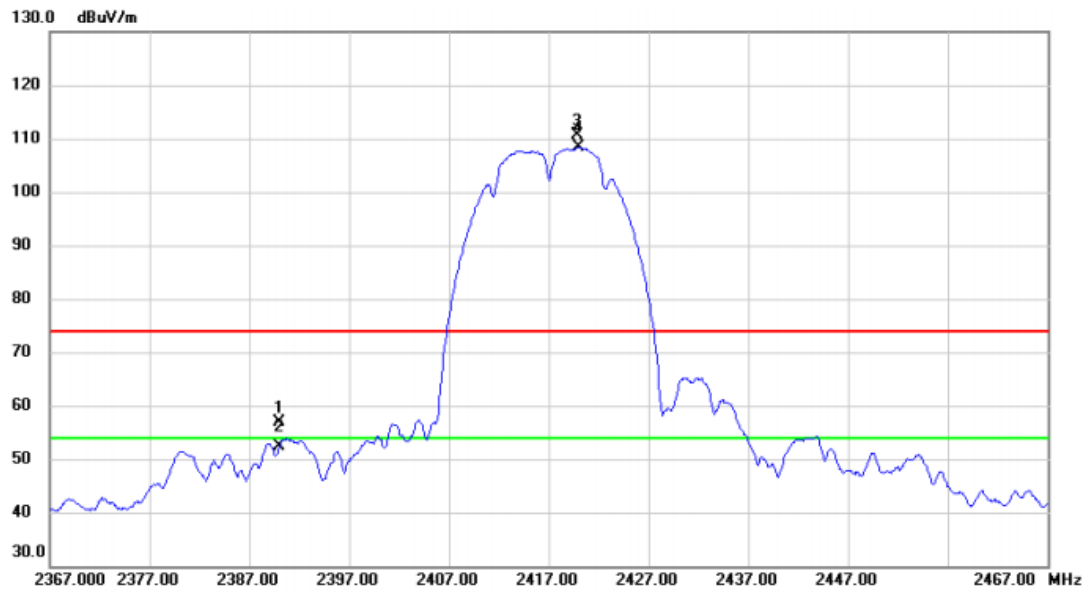


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4823.955	67.51	-14.43	53.08	74.00	-20.92	peak	
2	*	4824.115	65.57	-14.43	51.14	54.00	-2.86	AVG	

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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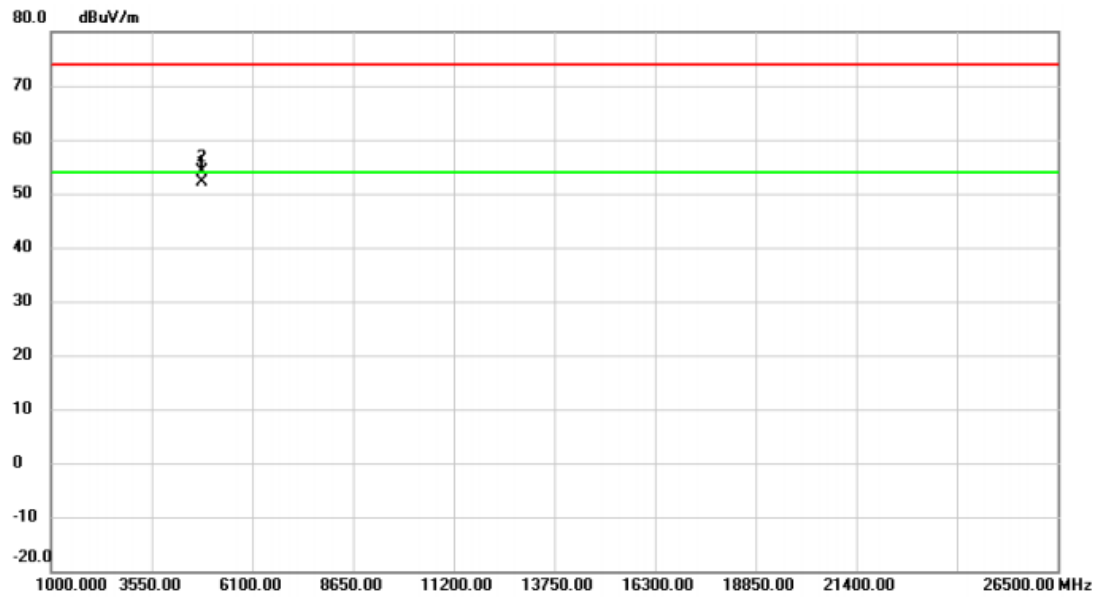
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	24.21	32.63	56.84	74.00	-17.16	peak	
2		2390.000	19.74	32.63	52.37	54.00	-1.63	AVG	
3	X	2419.900	77.94	32.73	110.67	74.00	36.67	peak	No Limit
4	*	2420.000	75.63	32.73	108.36	54.00	54.36	AVG	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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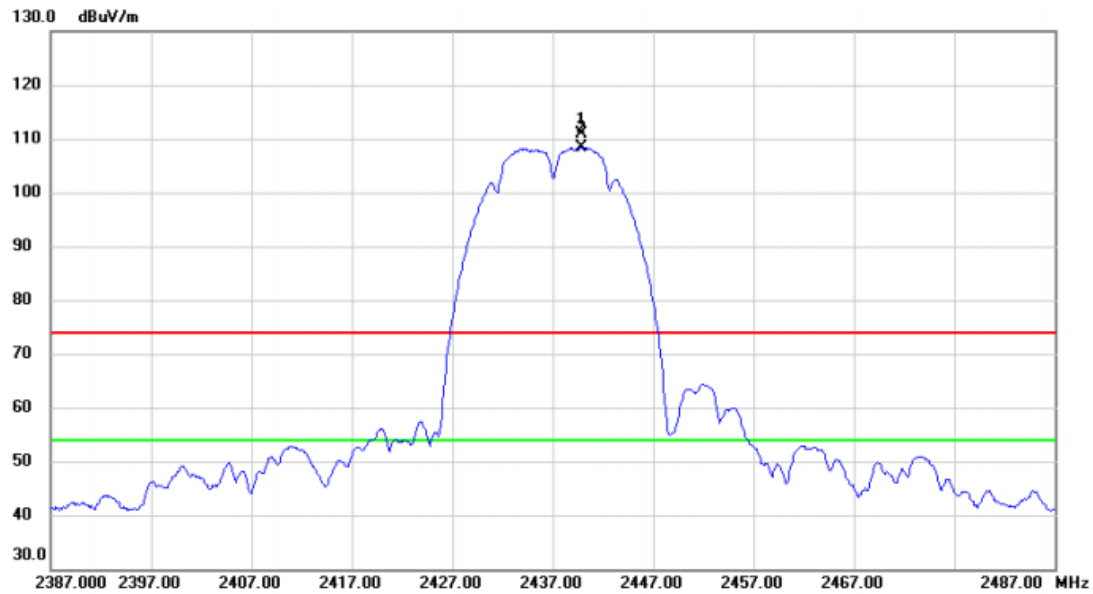


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4834.100	66.47	-14.39	52.08	54.00	-1.92	AVG	
2		4834.180	68.46	-14.39	54.07	74.00	-19.93	peak	

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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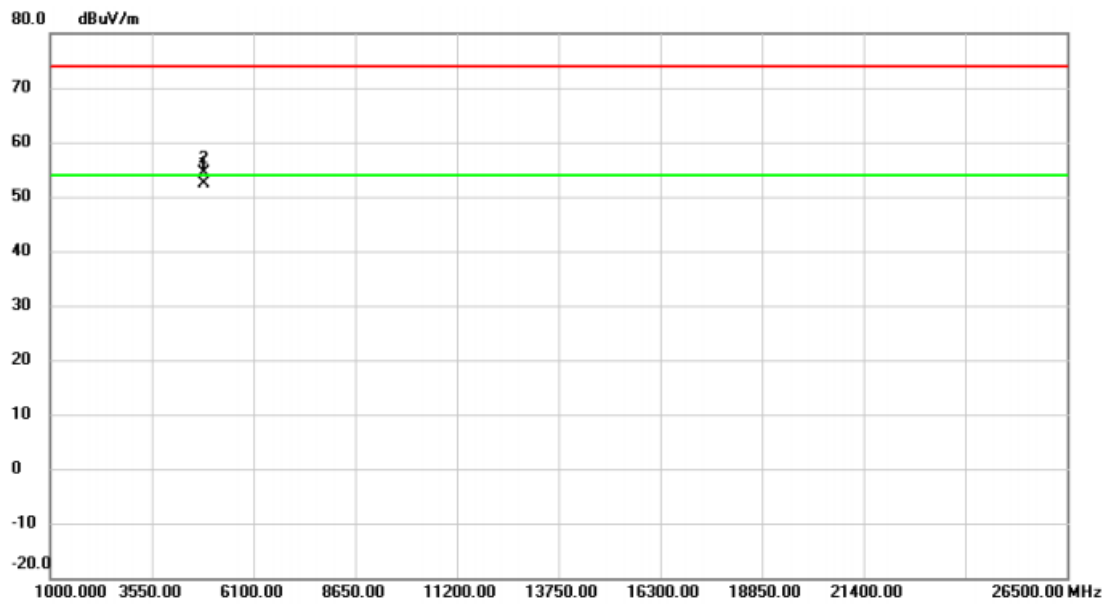


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2439.800	77.99	32.81	110.80	74.00	36.80	peak	No Limit
2	*	2439.800	75.53	32.81	108.34	54.00	54.34	AVG	No Limit

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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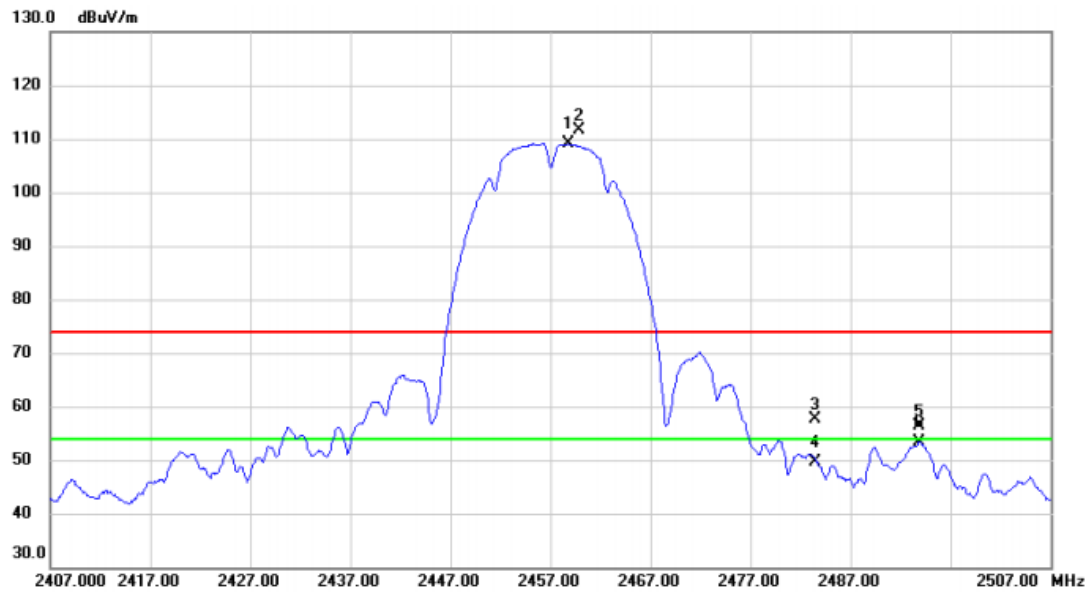


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4874.080	66.74	-14.26	52.48	54.00	-1.52	AVG	
2		4874.115	68.59	-14.26	54.33	74.00	-19.67	peak	

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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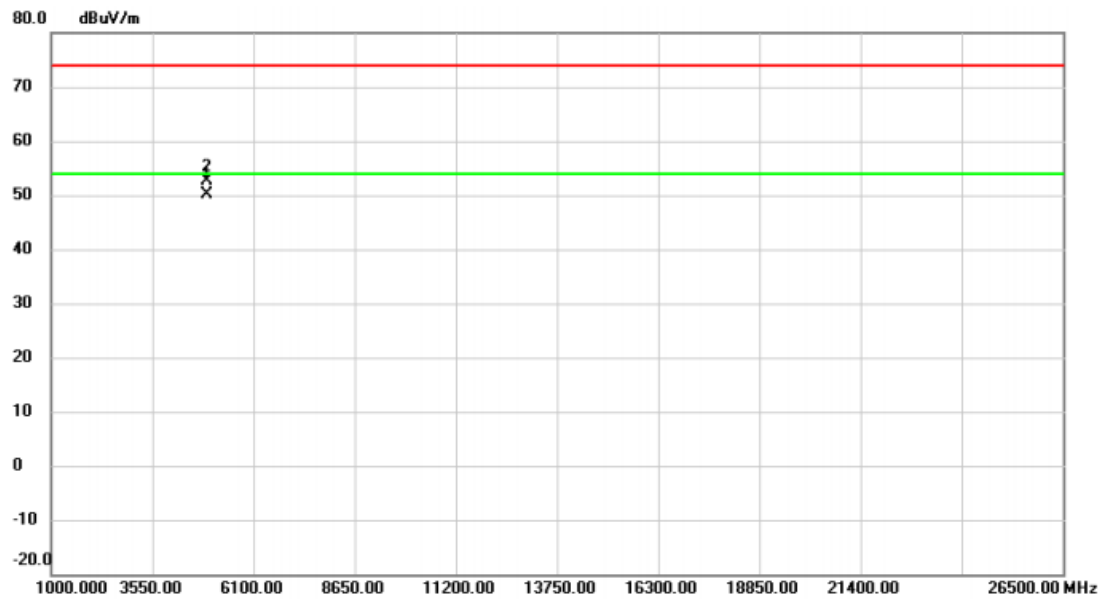


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2458.800	76.23	32.88	109.11	54.00	55.11	AVG	No Limit
2	X	2459.800	78.81	32.88	111.69	74.00	37.69	peak	No Limit
3		2483.500	24.65	32.97	57.62	74.00	-16.38	peak	
4		2483.500	16.73	32.97	49.70	54.00	-4.30	AVG	
5		2493.800	23.35	33.01	56.36	74.00	-17.64	peak	
6		2493.800	20.31	33.01	53.32	54.00	-0.68	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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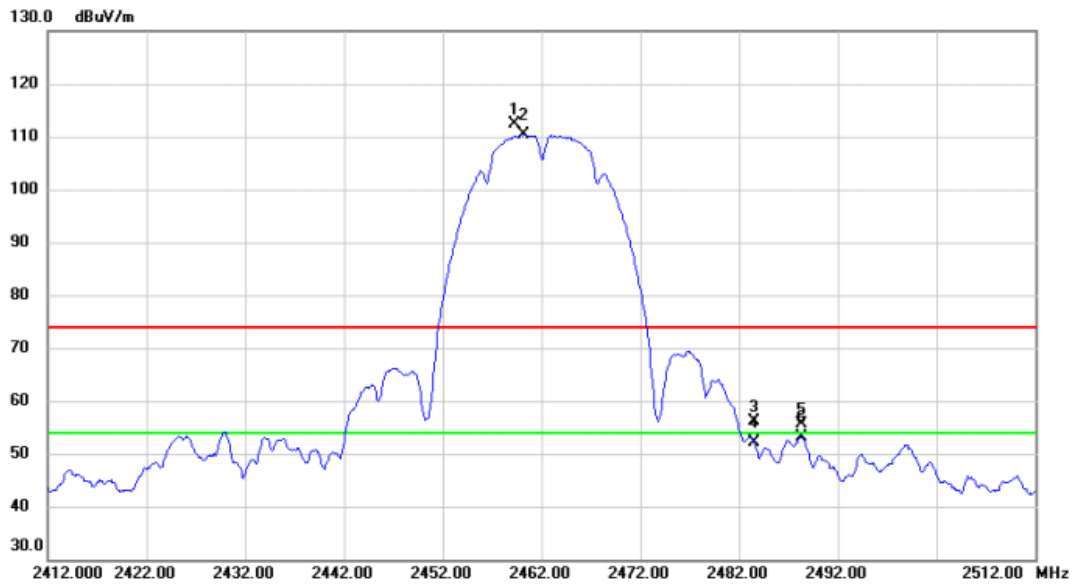


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4914.065	64.16	-14.11	50.05	54.00	-3.95	AVG	
2		4914.150	66.67	-14.11	52.56	74.00	-21.44	peak	

REMARKS:

- Measurement Value = Reading Level + Correct Factor.
- Margin Level = Measurement Value - Limit Value.

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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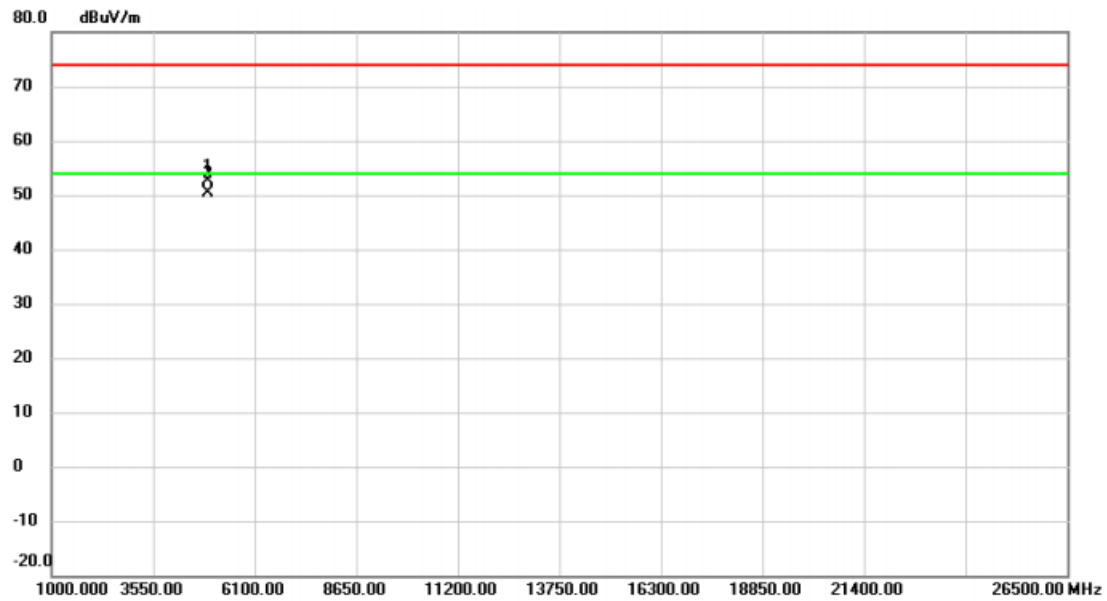


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2459.300	79.42	32.88	112.30	74.00	38.30	peak	No Limit
2	*	2460.200	77.47	32.88	110.35	54.00	56.35	AVG	No Limit
3		2483.500	23.20	32.97	56.17	74.00	-17.83	peak	
4		2483.500	19.23	32.97	52.20	54.00	-1.80	AVG	
5		2488.300	22.73	32.98	55.71	74.00	-18.29	peak	
6		2488.300	20.09	32.98	53.07	54.00	-0.93	AVG	

REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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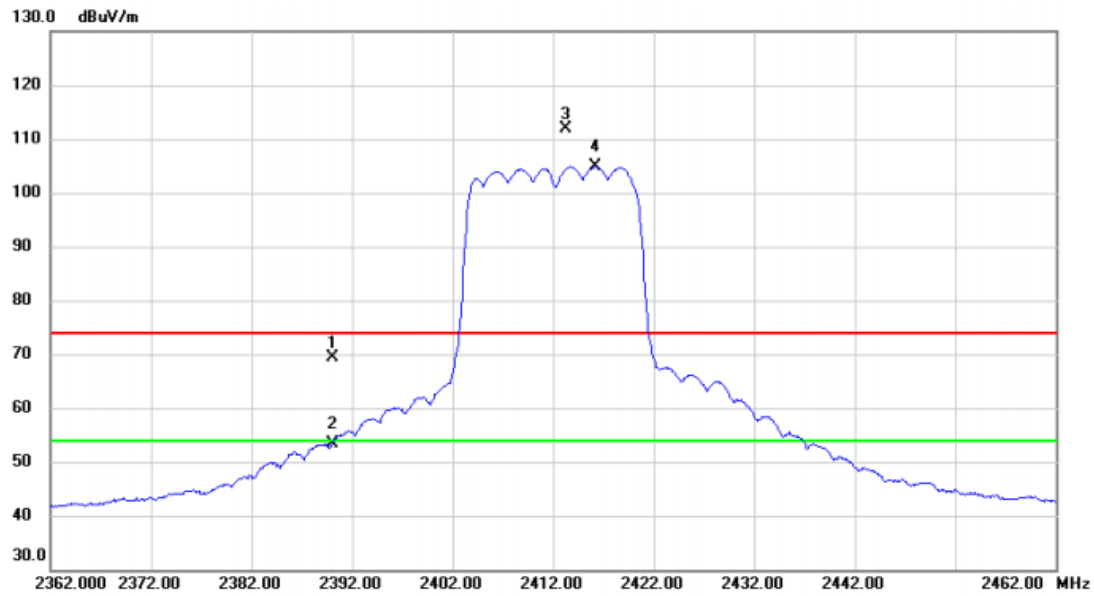


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.020	66.78	-14.08	52.70	74.00	-21.30	peak	
2	*	4924.055	64.36	-14.08	50.28	54.00	-3.72	AVG	

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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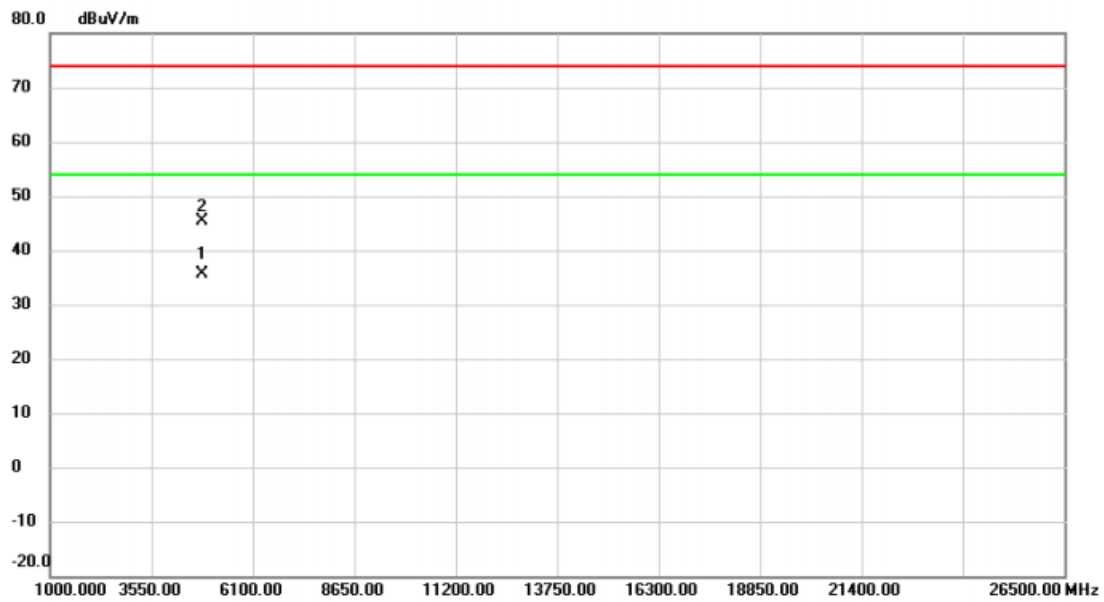
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	36.63	32.63	69.26	74.00	-4.74	peak	
2		2390.000	20.69	32.63	53.32	54.00	-0.68	AVG	
3	X	2413.300	79.07	32.72	111.79	74.00	37.79	peak	No Limit
4	*	2416.200	72.14	32.73	104.87	54.00	50.87	AVG	No Limit

REMARKS:

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

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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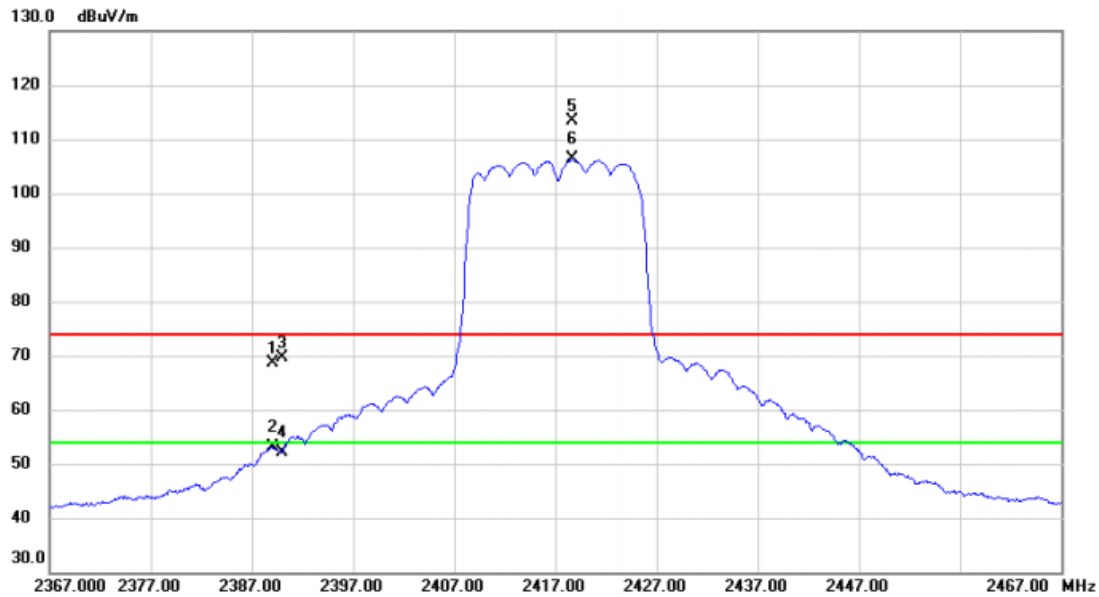


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4822.080	50.18	-14.43	35.75	54.00	-18.25	AVG	
2		4826.260	59.82	-14.41	45.41	74.00	-28.59	peak	

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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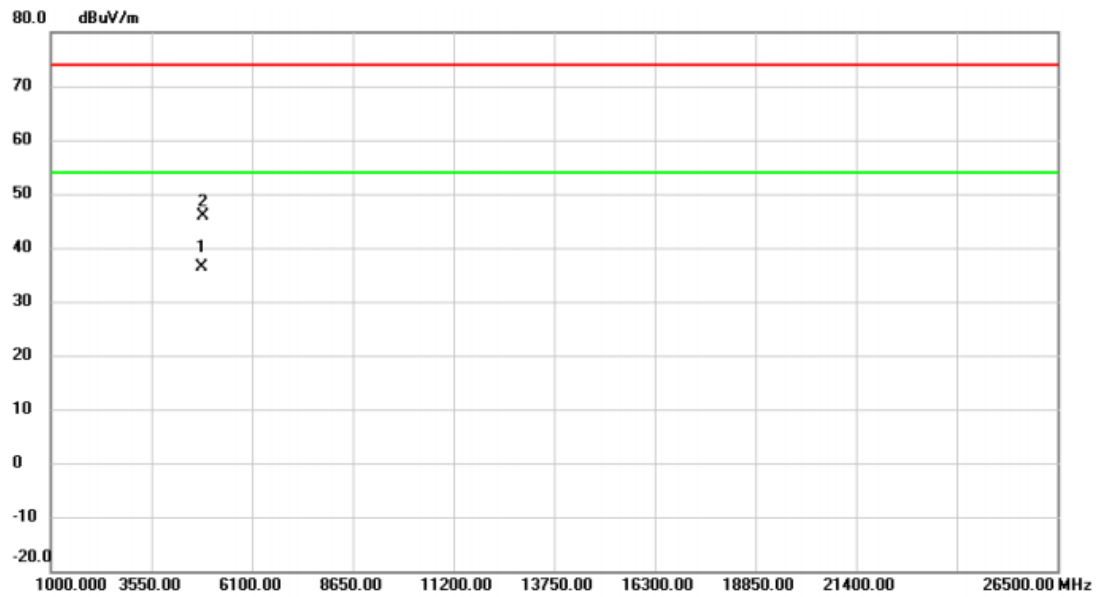


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2389.000	36.11	32.63	68.74	74.00	-5.26	peak	
2		2389.000	20.62	32.63	53.25	54.00	-0.75	AVG	
3		2390.000	36.88	32.63	69.51	74.00	-4.49	peak	
4		2390.000	19.46	32.63	52.09	54.00	-1.91	AVG	
5	X	2418.700	80.54	32.73	113.27	74.00	39.27	peak	No Limit
6	*	2418.700	73.55	32.73	106.28	54.00	52.28	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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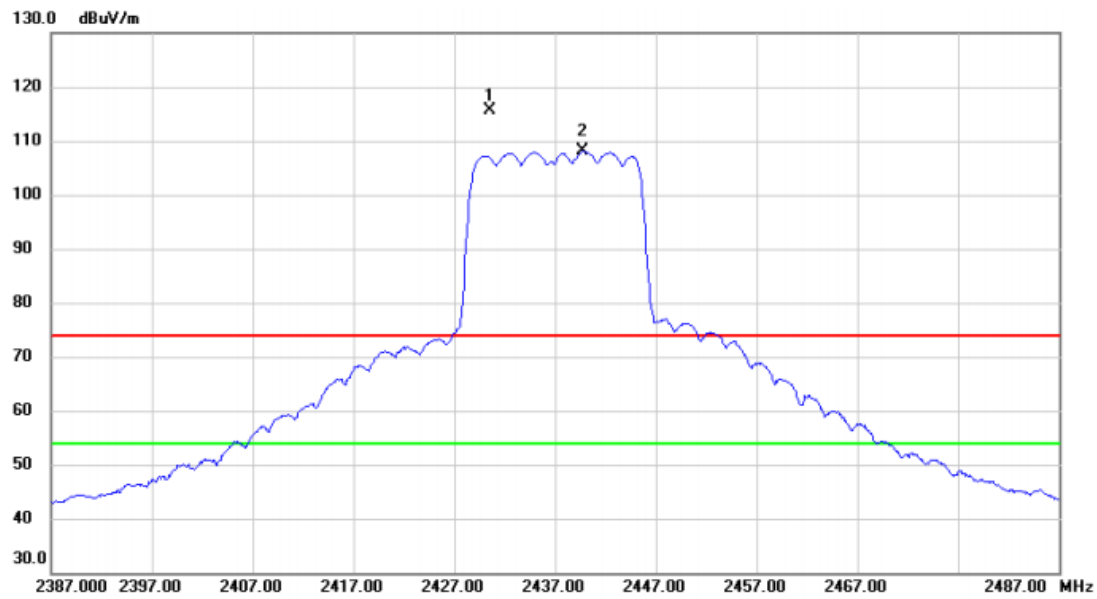


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4832.020	50.82	-14.39	36.43	54.00	-17.57	AVG	
2		4842.800	60.17	-14.36	45.81	74.00	-28.19	peak	

REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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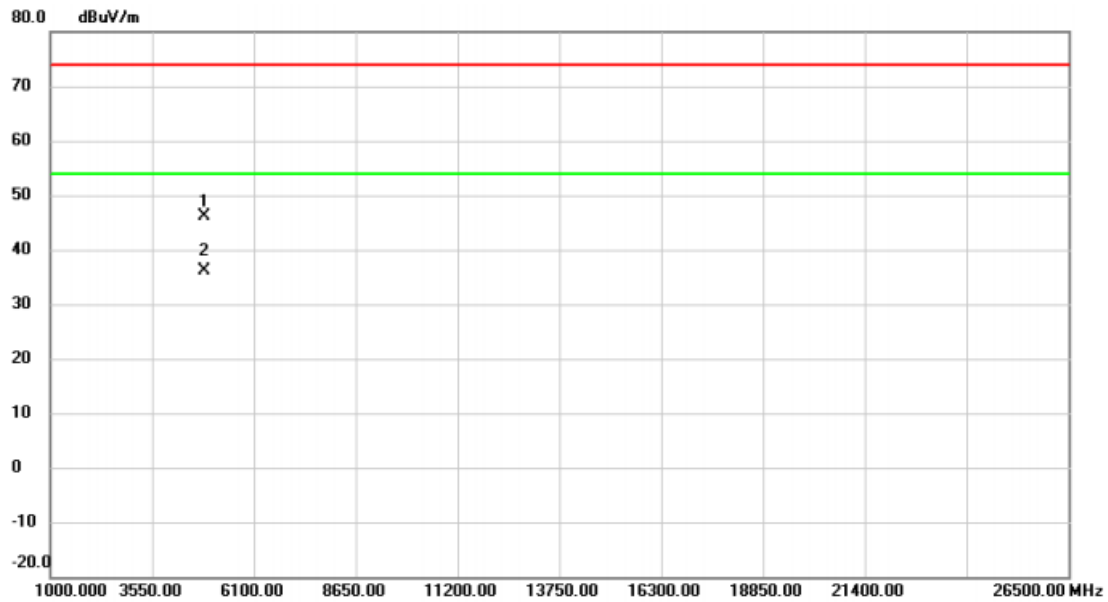
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2430.600	82.96	32.78	115.74	74.00	41.74	peak	No Limit
2	*	2439.700	75.21	32.81	108.02	54.00	54.02	AVG	No Limit

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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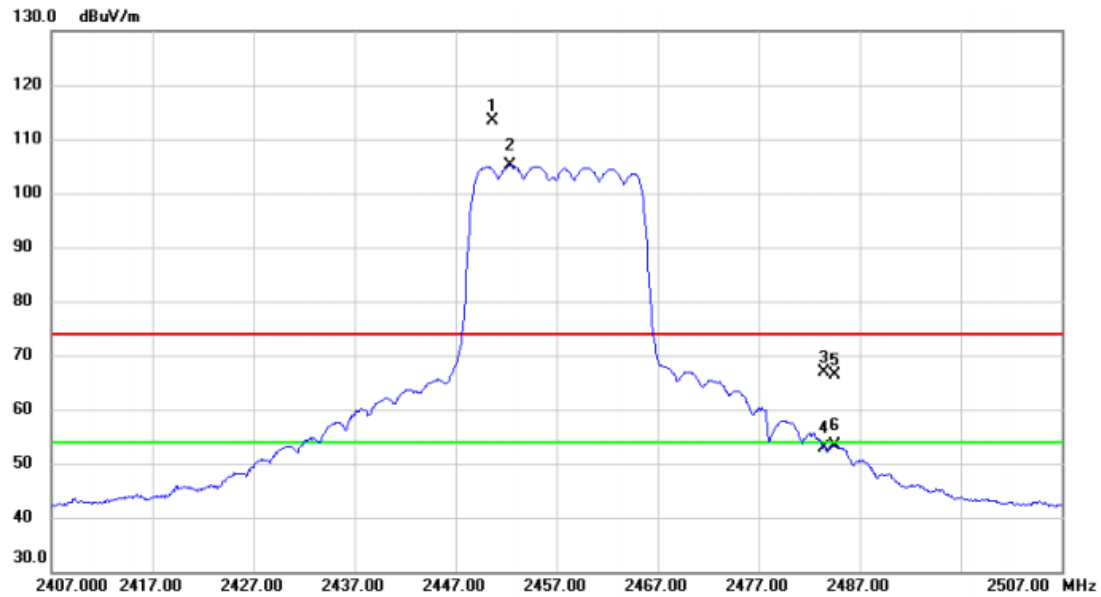


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4873.000	60.48	-14.26	46.22	74.00	-27.78	peak	
2	*	4873.280	50.37	-14.26	36.11	54.00	-17.89	AVG	

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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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2450.700	80.59	32.85	113.44	74.00	39.44	peak	No Limit
2	*	2452.400	72.28	32.86	105.14	54.00	51.14	AVG	No Limit
3		2483.500	34.00	32.97	66.97	74.00	-7.03	peak	
4		2483.500	19.82	32.97	52.79	54.00	-1.21	AVG	
5		2484.500	33.46	32.98	66.44	74.00	-7.56	peak	
6		2484.500	20.33	32.98	53.31	54.00	-0.69	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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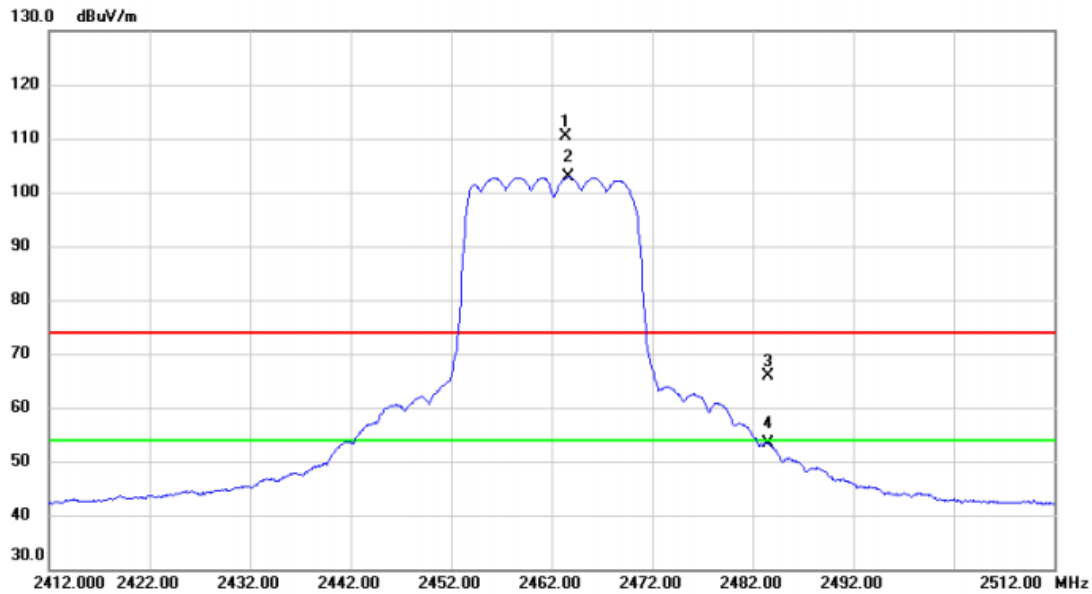


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4913.680	50.25	-14.12	36.13	54.00	-17.87	AVG	
2		4913.960	59.33	-14.11	45.22	74.00	-28.78	peak	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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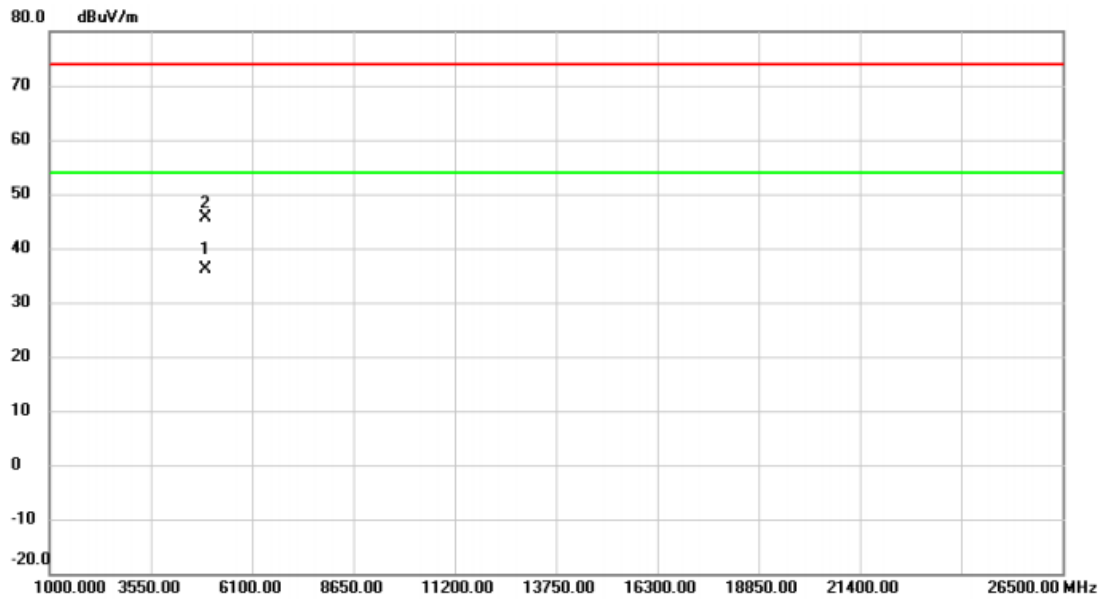


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2463.400	77.38	32.90	110.28	74.00	36.28	peak	No Limit
2	*	2463.700	69.98	32.90	102.88	54.00	48.88	AVG	No Limit
3		2483.500	33.01	32.97	65.98	74.00	-8.02	peak	
4		2483.500	20.32	32.97	53.29	54.00	-0.71	AVG	

REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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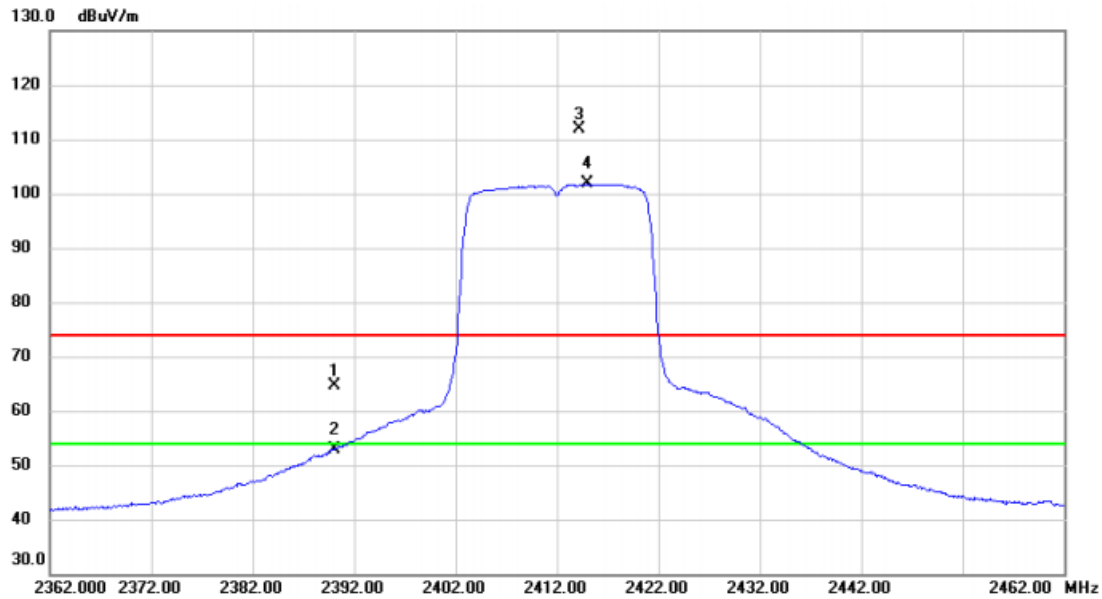


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4923.680	50.27	-14.08	36.19	54.00	-17.81	AVG	
2		4928.860	59.72	-14.06	45.66	74.00	-28.34	peak	

REMARKS:

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

Test Mode	TX N(HT20) Mode 2412 MHz	Polarization	Vertical
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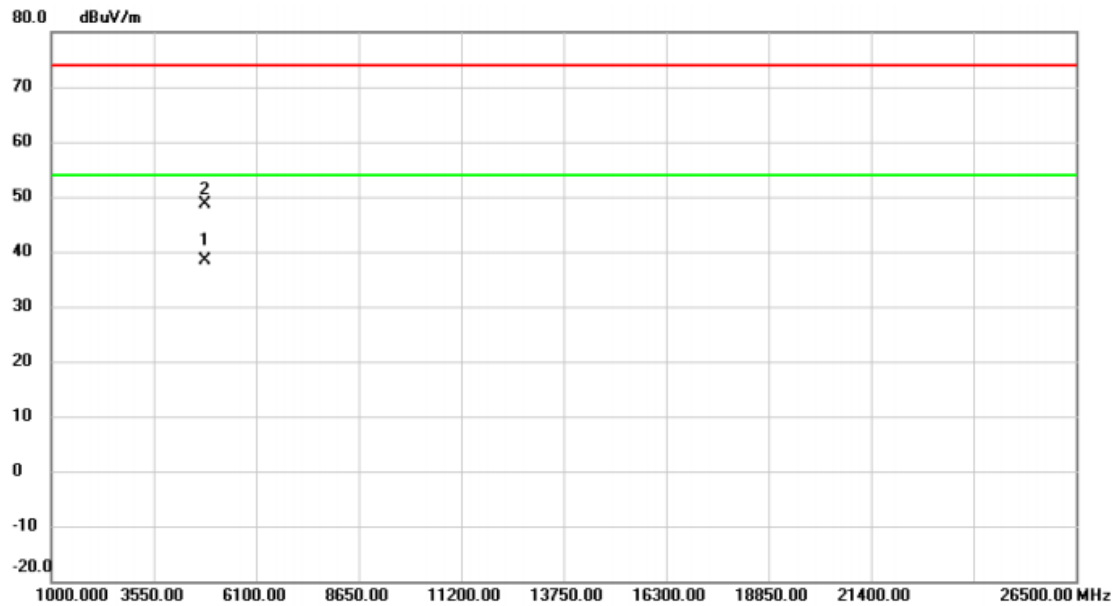


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	31.88	32.63	64.51	74.00	-9.49	peak	
2		2390.000	20.28	32.63	52.91	54.00	-1.09	AVG	
3	X	2414.200	79.13	32.72	111.85	74.00	37.85	peak	No Limit
4	*	2415.000	69.05	32.72	101.77	54.00	47.77	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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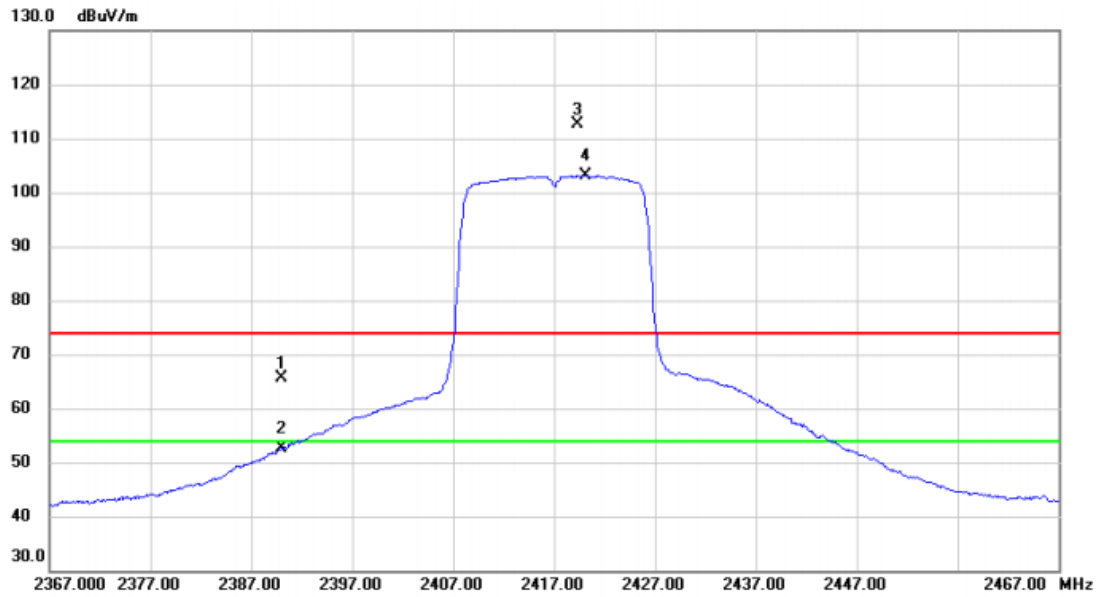


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4824.121	52.79	-14.43	38.36	54.00	-15.64	AVG	
2		4826.914	63.08	-14.41	48.67	74.00	-25.33	peak	

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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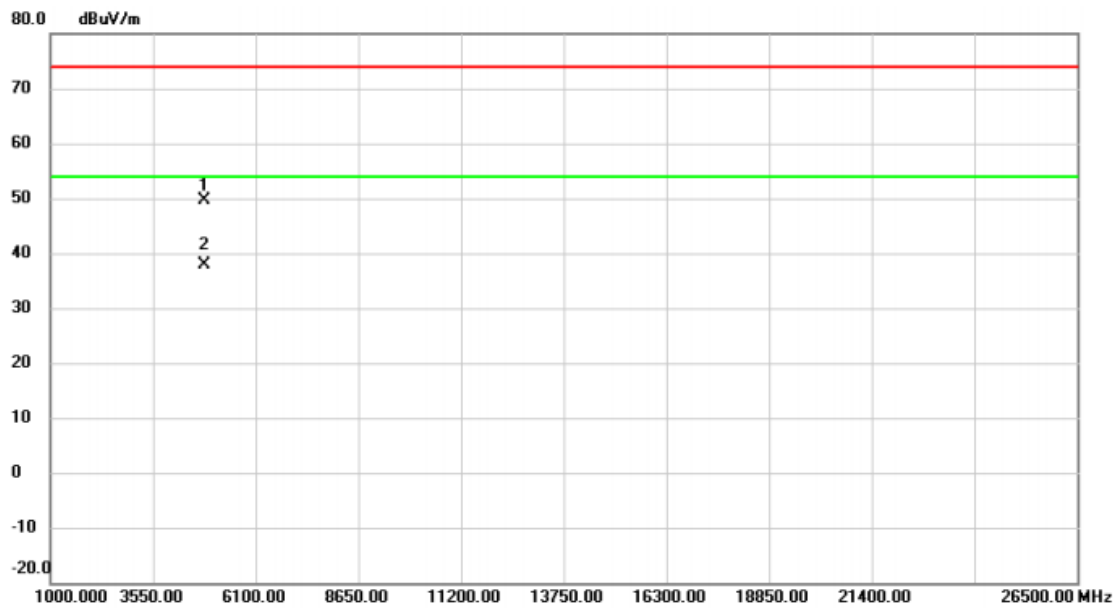


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	33.02	32.63	65.65	74.00	-8.35	peak	
2		2390.000	19.95	32.63	52.58	54.00	-1.42	AVG	
3	X	2419.300	79.94	32.73	112.67	74.00	38.67	peak	No Limit
4	*	2420.200	70.44	32.74	103.18	54.00	49.18	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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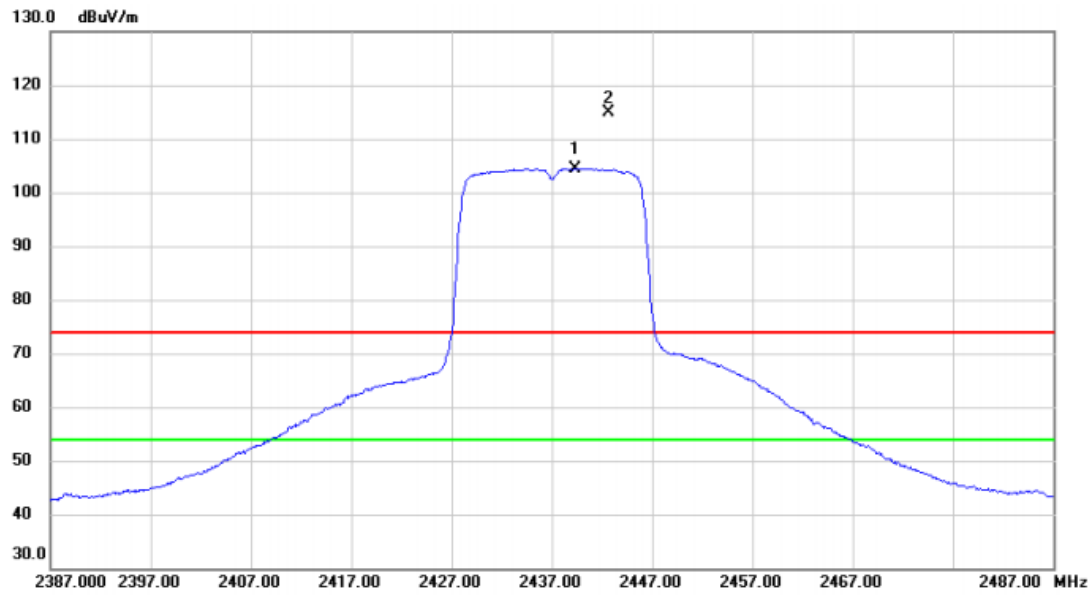


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4830.422	63.93	-14.41	49.52	74.00	-24.48	peak	
2	*	4835.387	52.19	-14.38	37.81	54.00	-16.19	AVG	

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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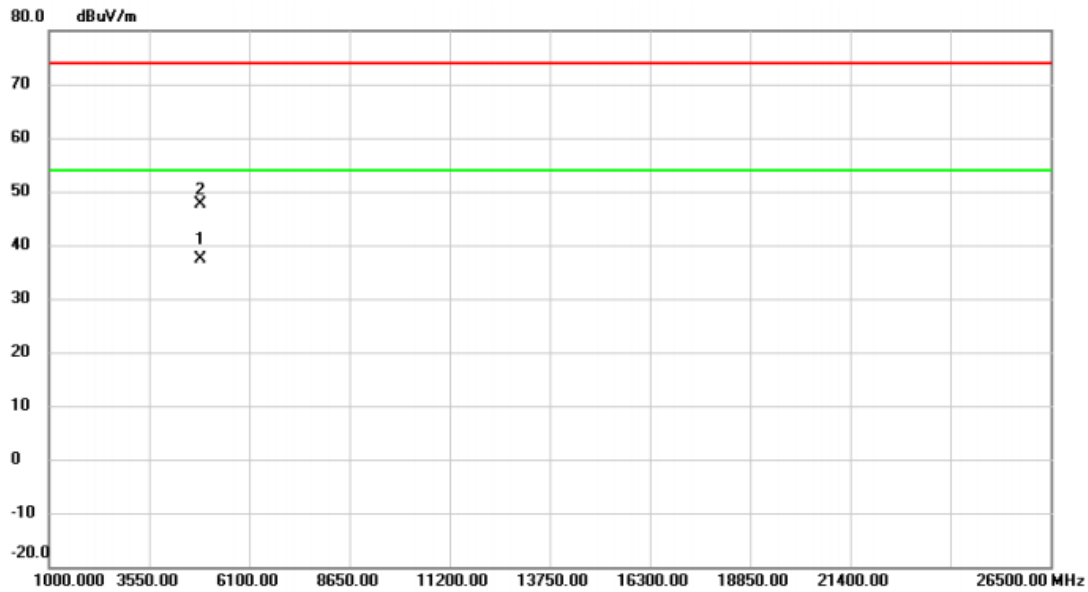


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2439.300	71.66	32.81	104.47	54.00	50.47	AVG	No Limit
2	X	2442.700	82.06	32.82	114.88	74.00	40.88	peak	No Limit

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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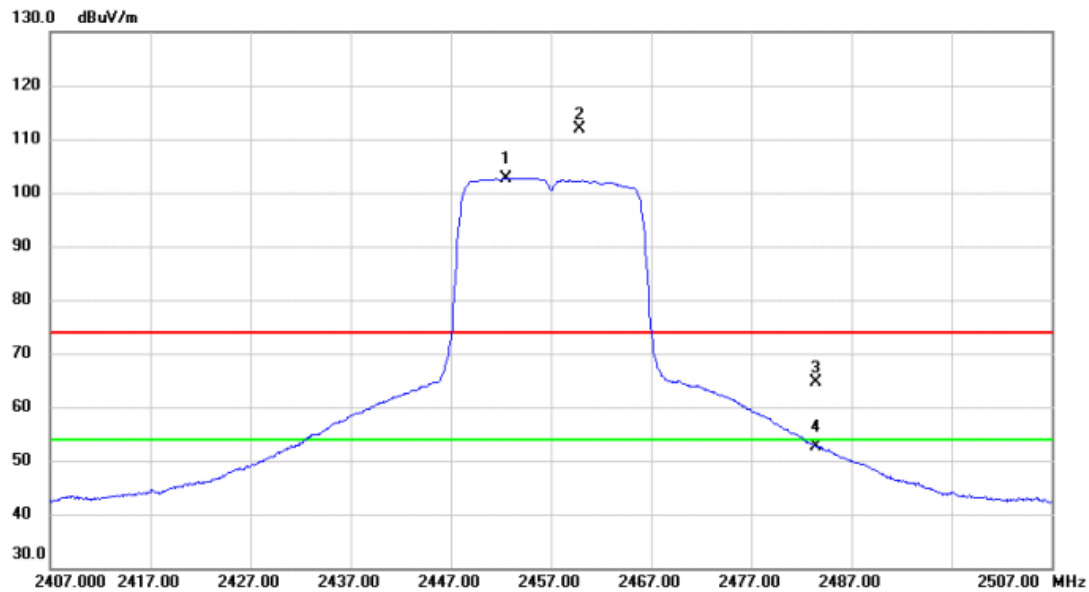


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1 *	4871.608	51.58	-14.26	37.32	54.00	-16.68	AVG	
2	4875.367	61.84	-14.23	47.61	74.00	-26.39	peak	

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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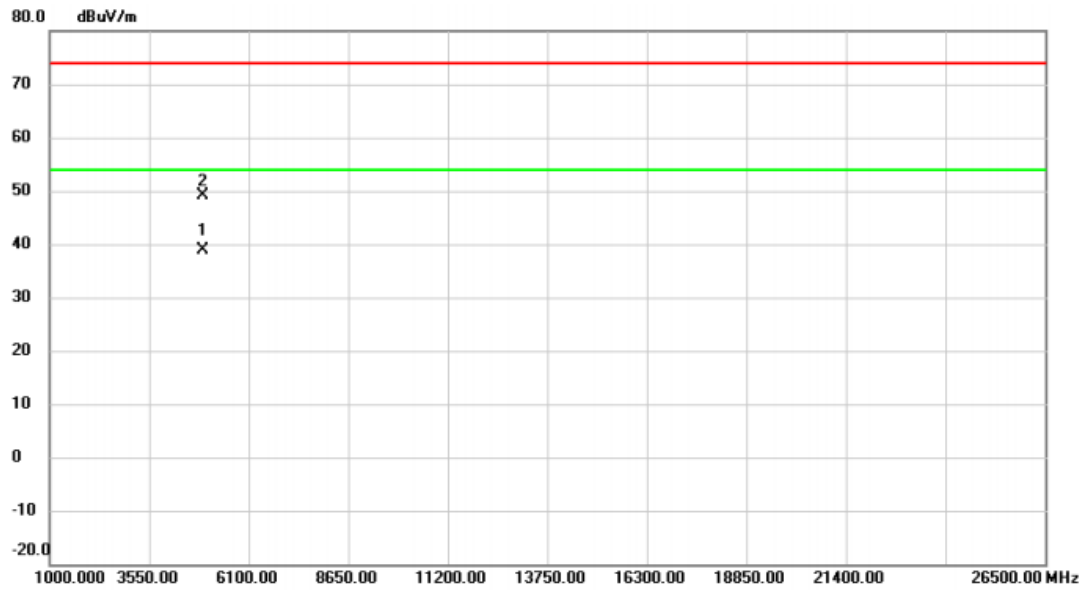


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2452.500	69.83	32.86	102.69	54.00	48.69	AVG	No Limit
2	X	2459.800	79.05	32.88	111.93	74.00	37.93	peak	No Limit
3		2483.500	31.68	32.97	64.65	74.00	-9.35	peak	
4		2483.500	19.57	32.97	52.54	54.00	-1.46	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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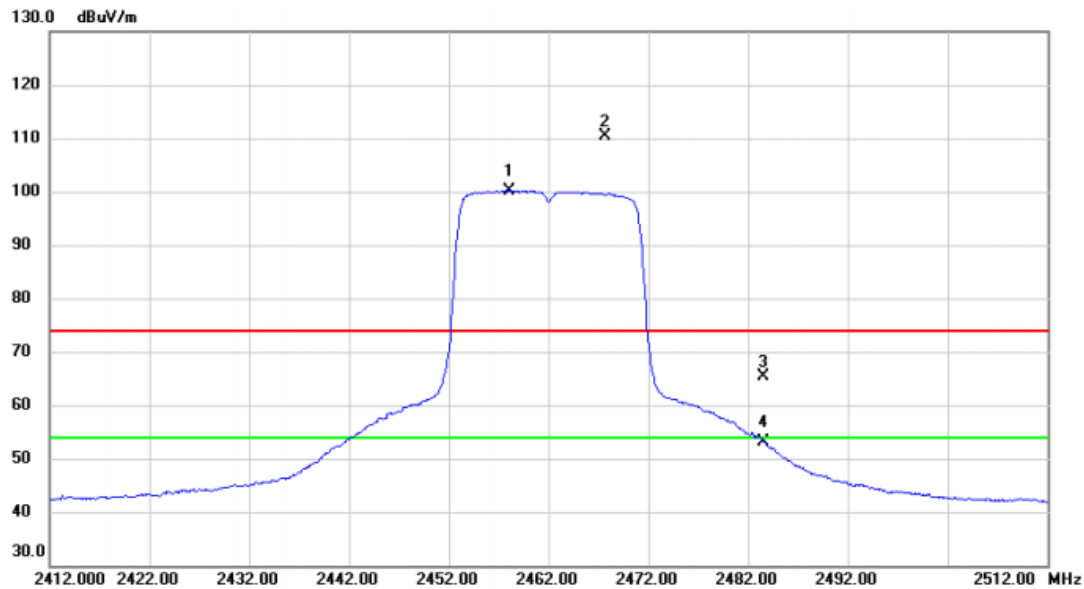


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4915.166	52.88	-14.10	38.78	54.00	-15.22	AVG	
2		4915.206	63.19	-14.10	49.09	74.00	-24.91	peak	

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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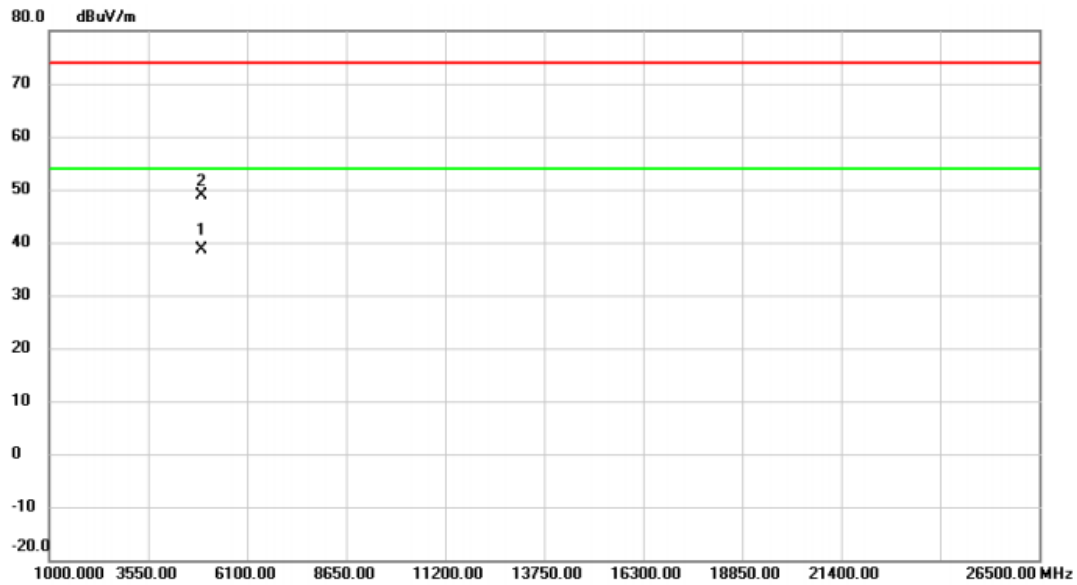
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2458.100	67.37	32.88	100.25	54.00	46.25	AVG	No Limit
2	X	2467.700	77.35	32.91	110.26	74.00	36.26	peak	No Limit
3		2483.500	32.51	32.97	65.48	74.00	-8.52	peak	
4		2483.500	20.13	32.97	53.10	54.00	-0.90	AVG	

REMARKS:

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

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

Test Mode	TX N(HT20) Mode 2462 MHz	Polarization	Vertical
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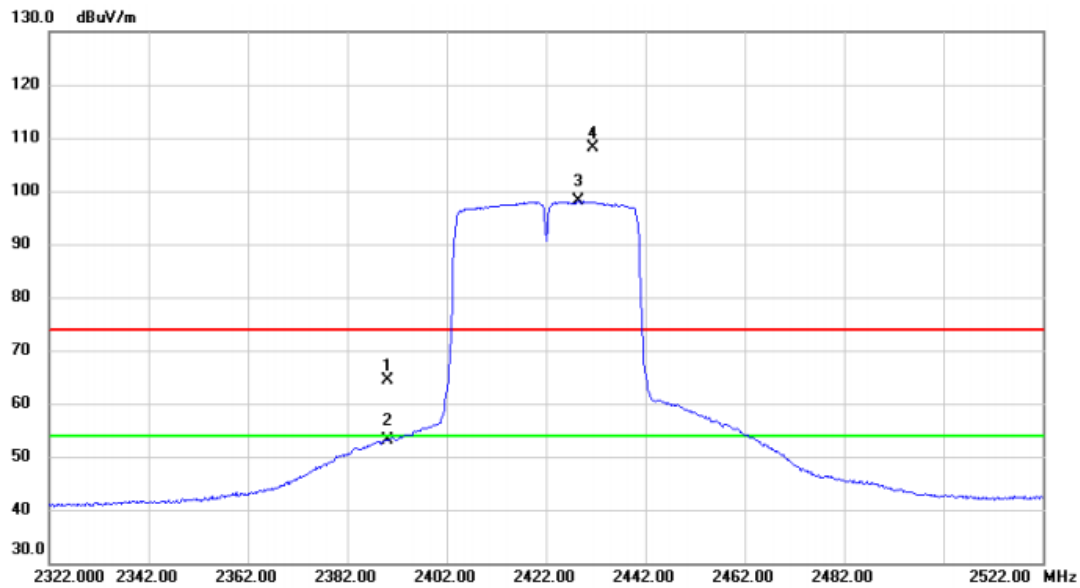


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4925.105	52.71	-14.06	38.65	54.00	-15.35	AVG	
2		4928.563	62.91	-14.06	48.85	74.00	-25.15	peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical
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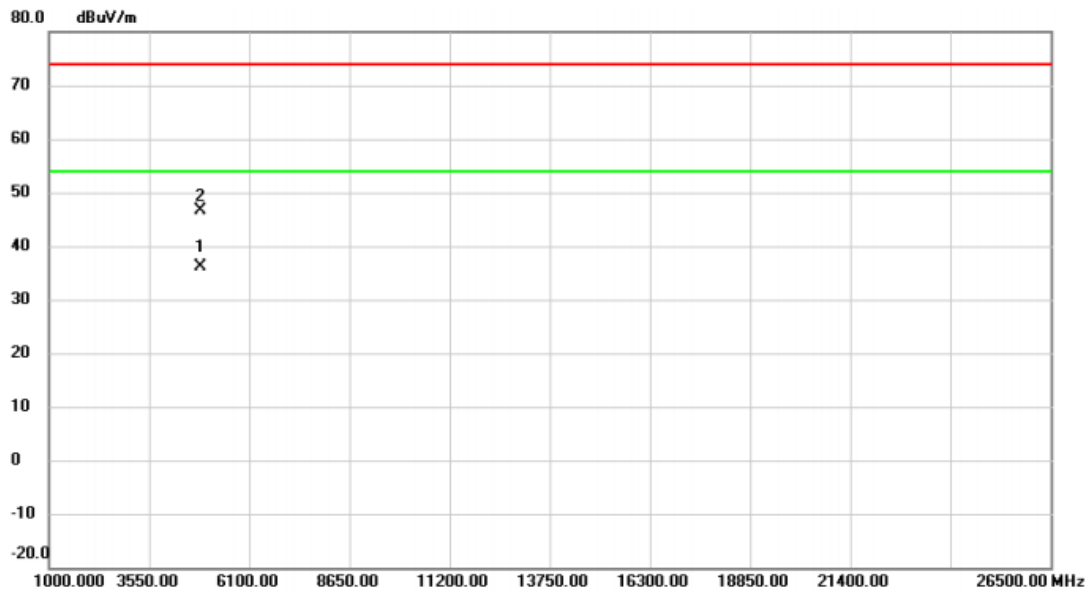


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	31.66	32.63	64.29	74.00	-9.71	peak	
2		2390.000	20.40	32.63	53.03	54.00	-0.97	AVG	
3	*	2428.600	65.27	32.77	98.04	54.00	44.04	AVG	No Limit
4	X	2431.400	75.46	32.78	108.24	74.00	34.24	peak	No Limit

REMARKS:

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

Test Mode	TX N(HT40) Mode 2422 MHz	Polarization	Vertical
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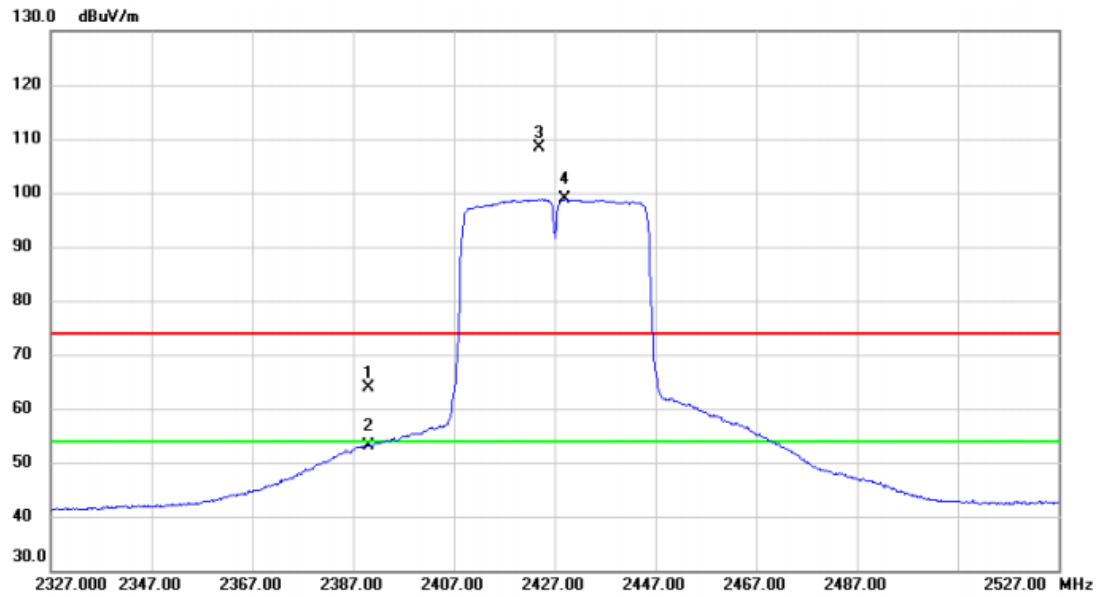


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4843.437	50.52	-14.36	36.16	54.00	-17.84	AVG	
2		4846.814	60.93	-14.34	46.59	74.00	-27.41	peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2427 MHz	Polarization	Vertical
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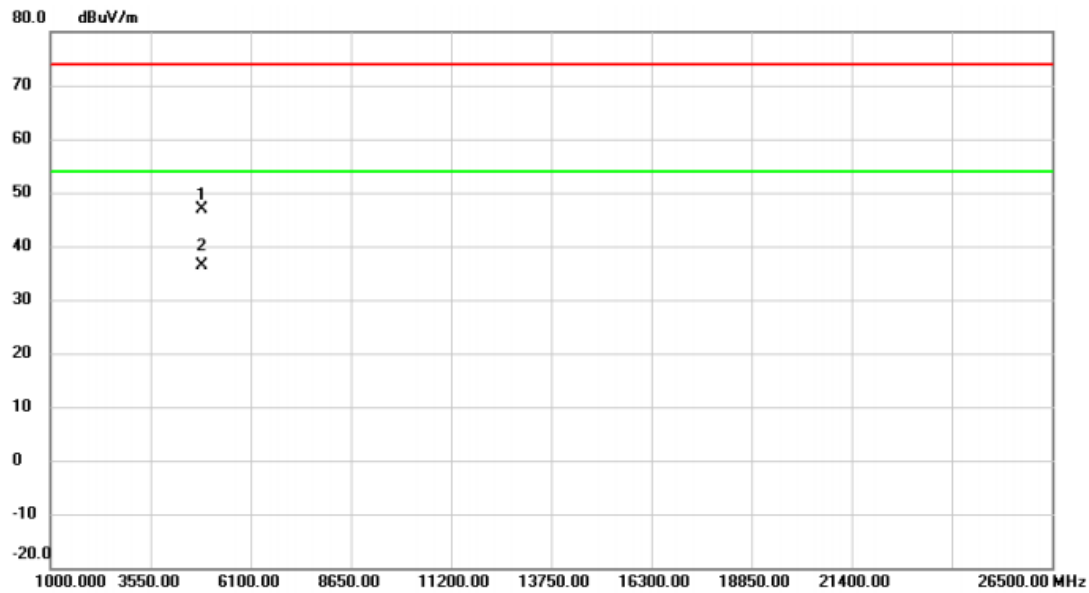


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	31.37	32.63	64.00	74.00	-10.00	peak	
2		2390.000	20.49	32.63	53.12	54.00	-0.88	AVG	
3	X	2423.800	75.52	32.75	108.27	74.00	34.27	peak	No Limit
4	*	2429.000	66.01	32.77	98.78	54.00	44.78	AVG	No Limit

REMARKS:

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

Test Mode	TX N(HT40) Mode 2427 MHz	Polarization	Vertical
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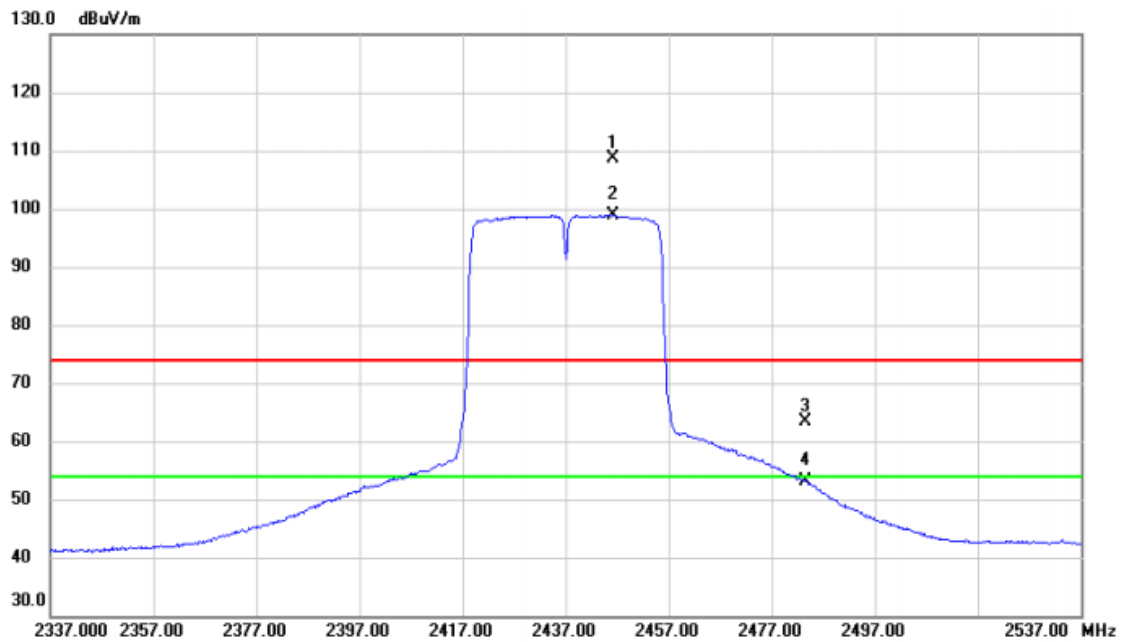


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4850.623	61.25	-14.33	46.92	74.00	-27.08	peak	
2	*	4852.050	50.62	-14.33	36.29	54.00	-17.71	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical
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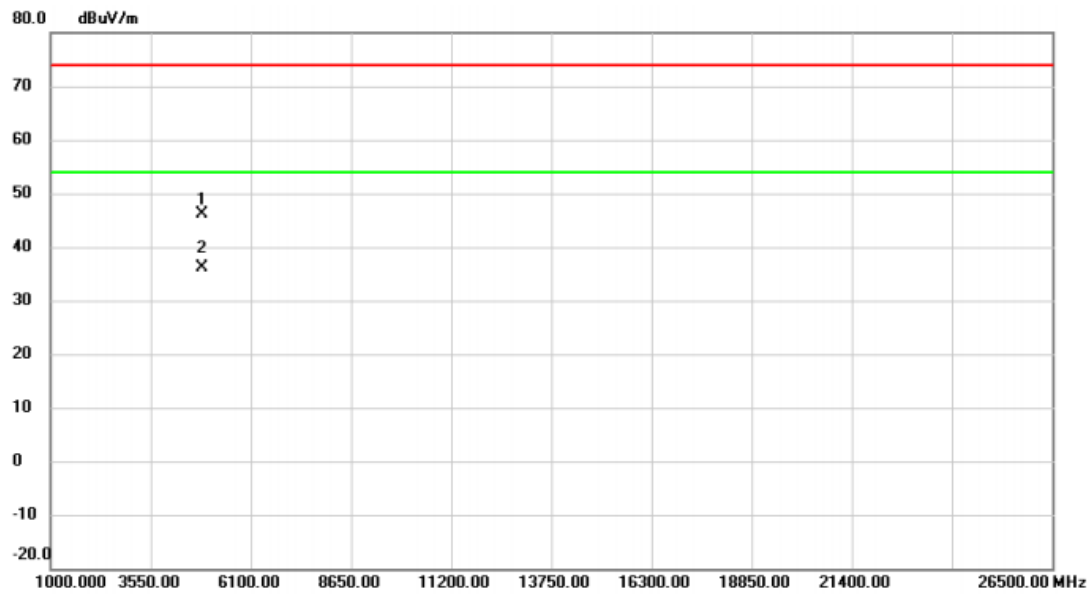
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2446.200	75.70	32.83	108.53	74.00	34.53	peak	No Limit
2	*	2446.200	66.11	32.83	98.94	54.00	44.94	AVG	No Limit
3		2483.500	30.29	32.97	63.26	74.00	-10.74	peak	
4		2483.500	20.14	32.97	53.11	54.00	-0.89	AVG	

REMARKS:

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

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

Test Mode	TX N(HT40) Mode 2437 MHz	Polarization	Vertical
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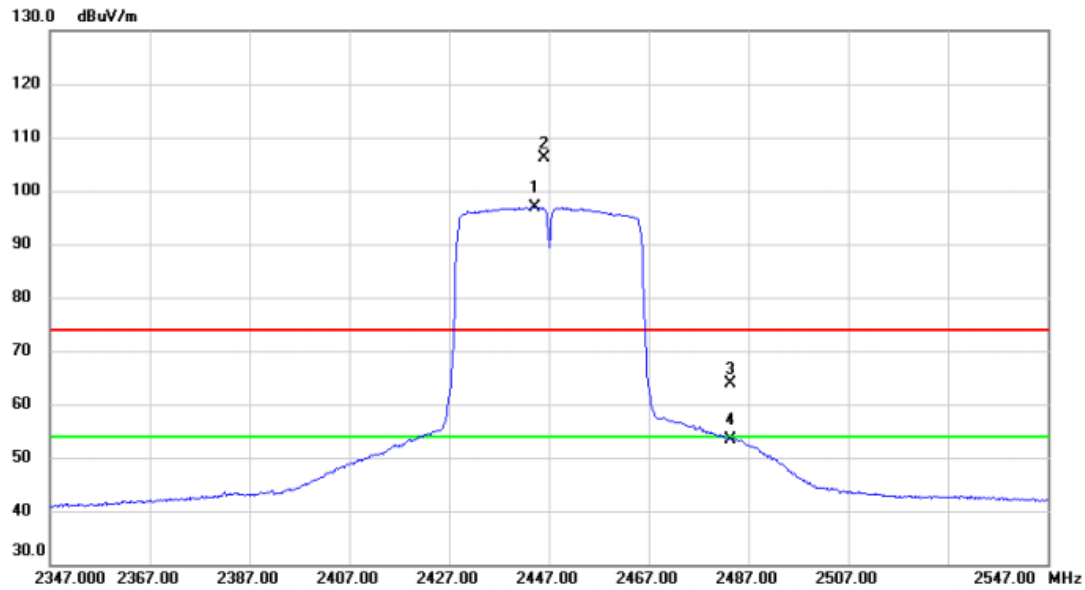


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4870.483	60.46	-14.26	46.20	74.00	-27.80	peak	
2	*	4871.387	50.33	-14.26	36.07	54.00	-17.93	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2447 MHz	Polarization	Vertical
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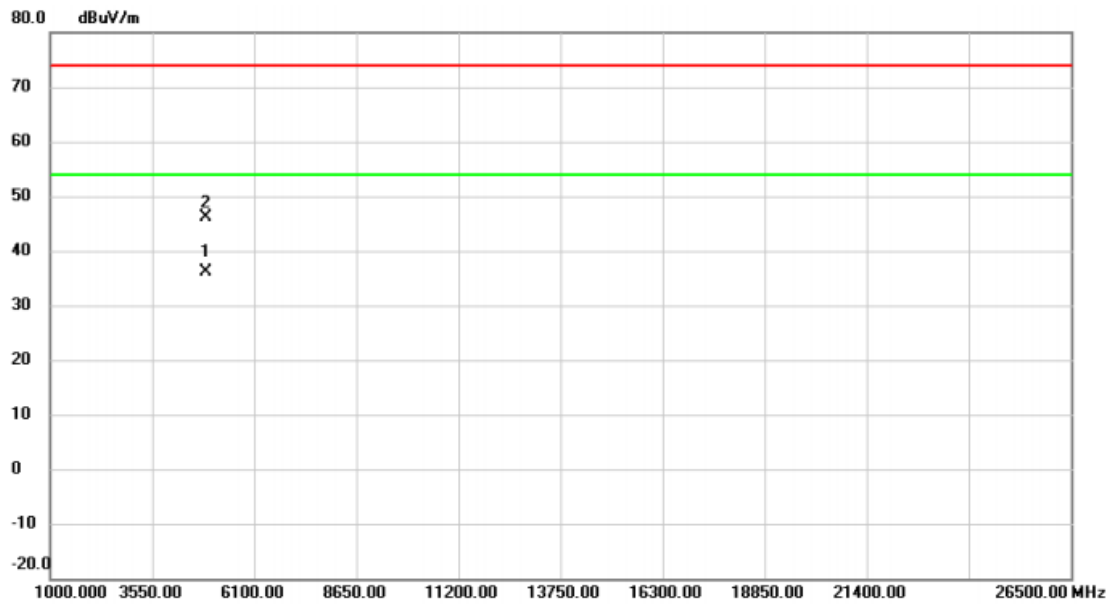
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2444.200	64.11	32.83	96.94	54.00	42.94	AVG	No Limit
2	X	2446.000	73.24	32.83	106.07	74.00	32.07	peak	No Limit
3		2483.500	30.82	32.97	63.79	74.00	-10.21	peak	
4		2483.500	20.53	32.97	53.50	54.00	-0.50	AVG	

REMARKS:

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

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

Test Mode	TX N(HT40) Mode 2447 MHz	Polarization	Vertical
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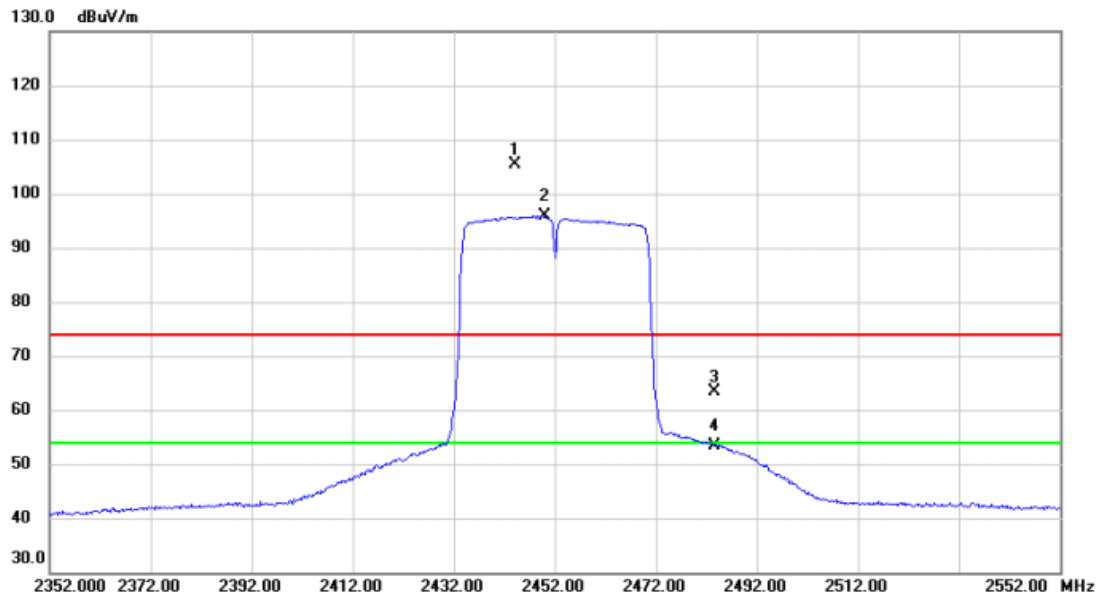


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4892.280	50.34	-14.18	36.16	54.00	-17.84	AVG	
2		4899.720	60.23	-14.16	46.07	74.00	-27.93	peak	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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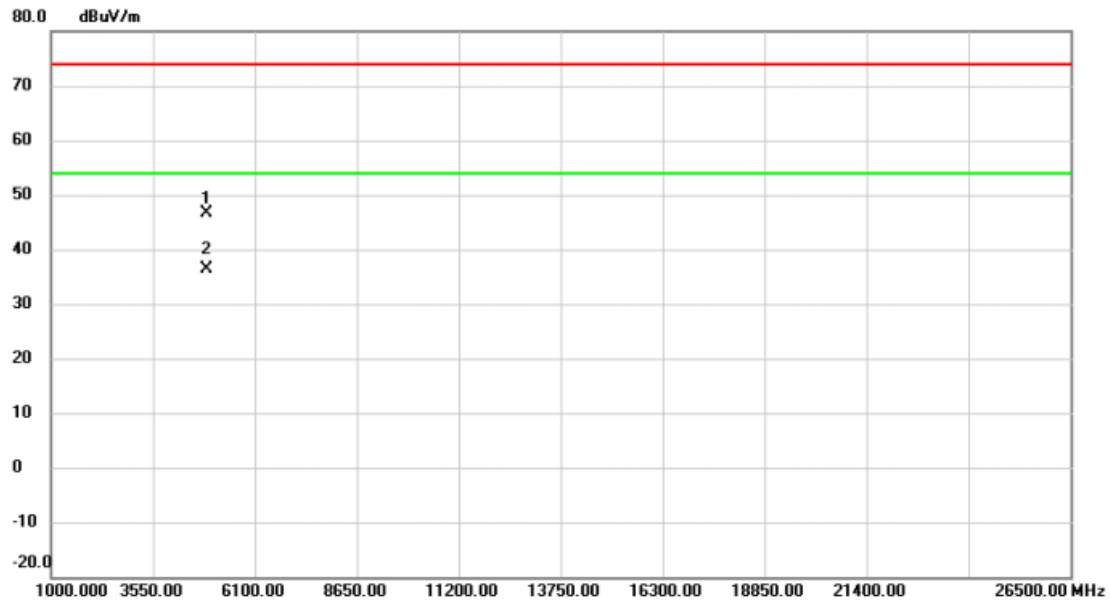


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2444.000	72.64	32.83	105.47	74.00	31.47	peak	No Limit
2	*	2450.000	62.94	32.85	95.79	54.00	41.79	AVG	No Limit
3		2483.500	30.41	32.97	63.38	74.00	-10.62	peak	
4		2483.500	20.34	32.97	53.31	54.00	-0.69	AVG	

REMARKS:

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

Test Mode	TX N(HT40) Mode 2452 MHz	Polarization	Vertical
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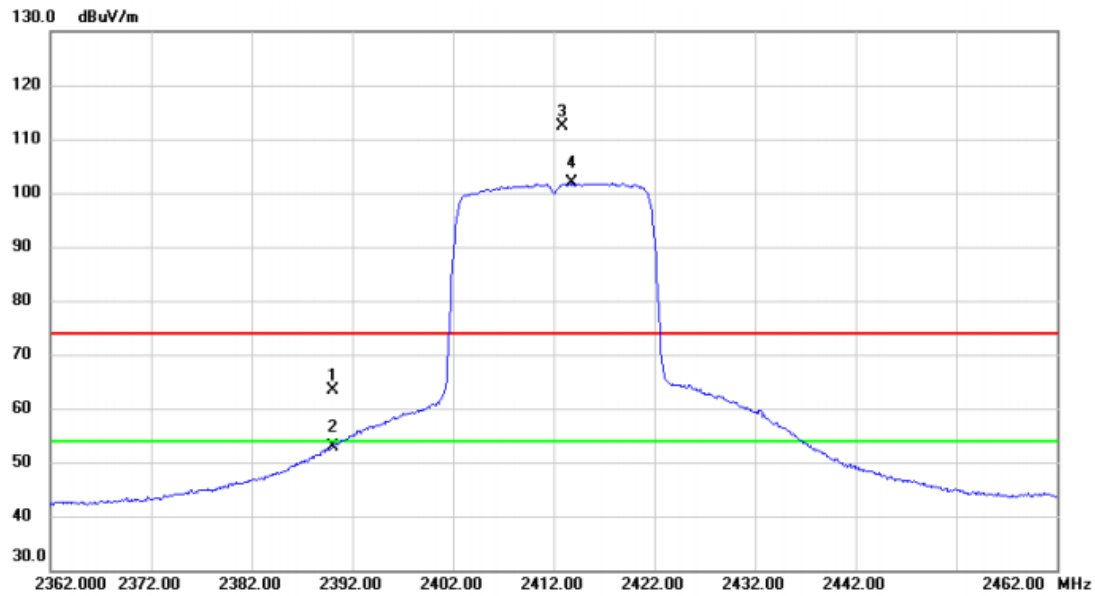


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4895.300	60.87	-14.17	46.70	74.00	-27.30	peak	
2	*	4903.700	50.56	-14.15	36.41	54.00	-17.59	AVG	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Vertical
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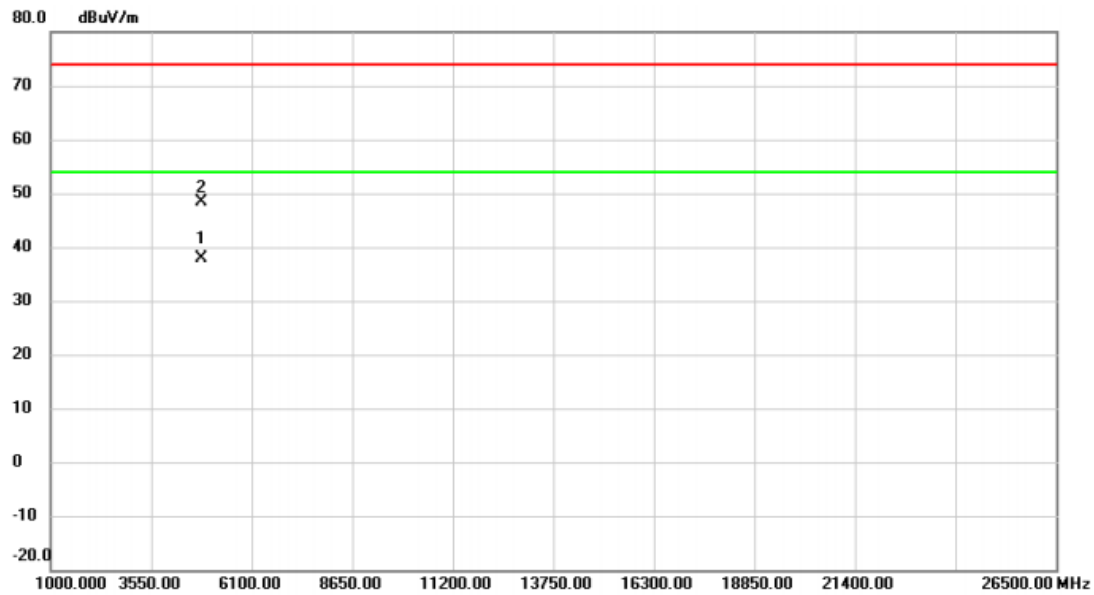


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	30.86	32.63	63.49	74.00	-10.51	peak	
2		2390.000	20.31	32.63	52.94	54.00	-1.06	AVG	
3	X	2412.800	79.79	32.71	112.50	74.00	38.50	peak	No Limit
4	*	2413.800	69.09	32.72	101.81	54.00	47.81	AVG	No Limit

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Vertical
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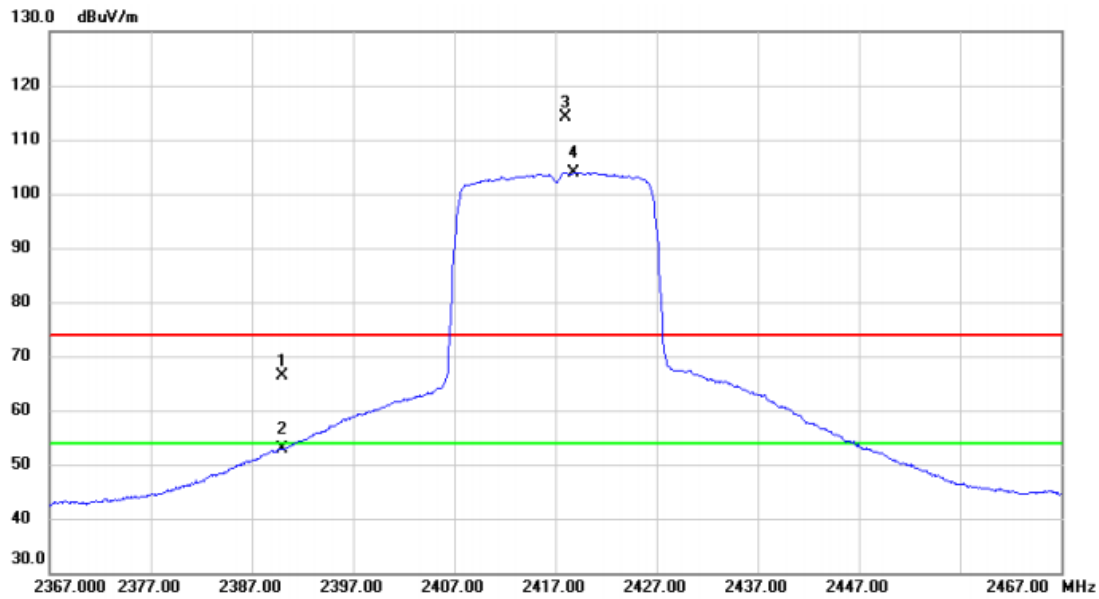
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4822.368	52.23	-14.43	37.80	54.00	-16.20	AVG	
2		4823.682	62.87	-14.43	48.44	74.00	-25.56	peak	

REMARKS:

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

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

Test Mode	TX AX(HE20) Mode 2417 MHz	Polarization	Vertical
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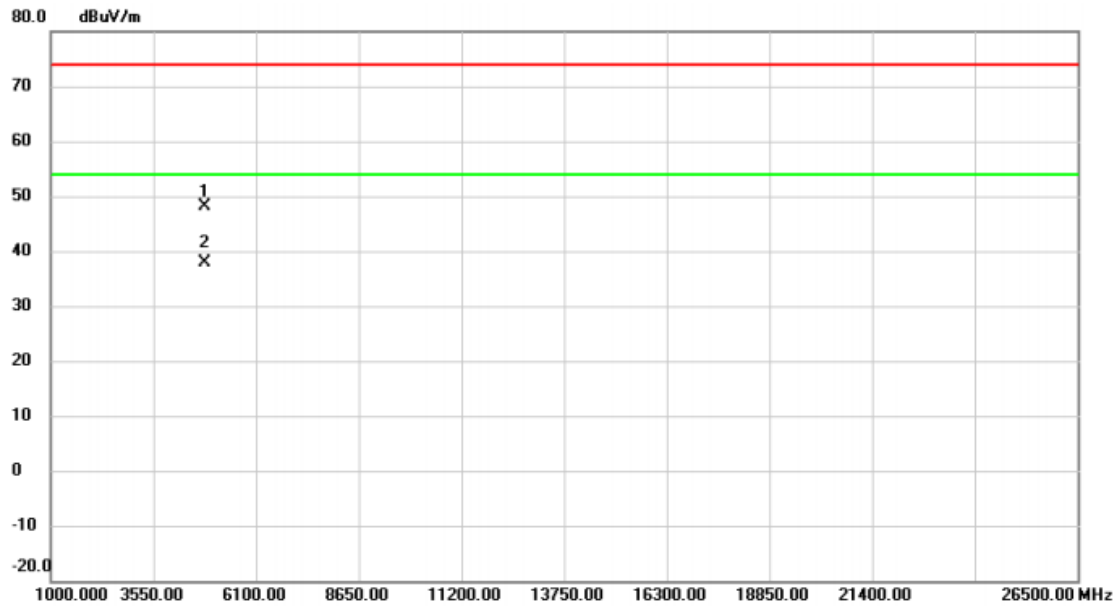


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	33.74	32.63	66.37	74.00	-7.63	peak	
2		2390.000	20.35	32.63	52.98	54.00	-1.02	AVG	
3	X	2418.000	81.42	32.73	114.15	74.00	40.15	peak	No Limit
4	*	2418.800	71.20	32.73	103.93	54.00	49.93	AVG	No Limit

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2417 MHz	Polarization	Vertical
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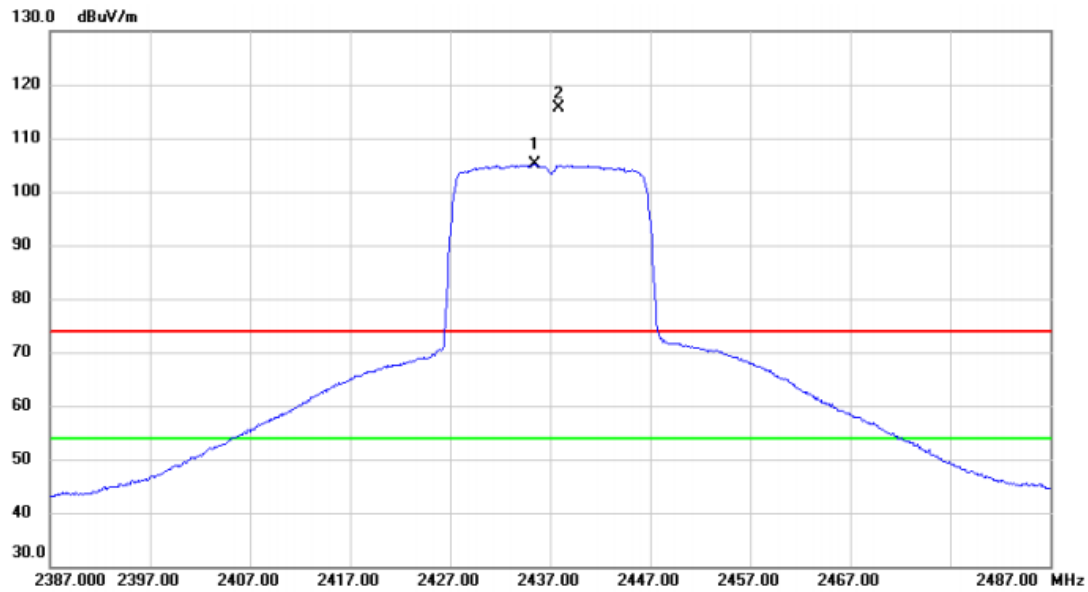


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4830.766	62.54	-14.40	48.14	74.00	-25.86	peak	
2	*	4832.258	52.39	-14.39	38.00	54.00	-16.00	AVG	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Vertical
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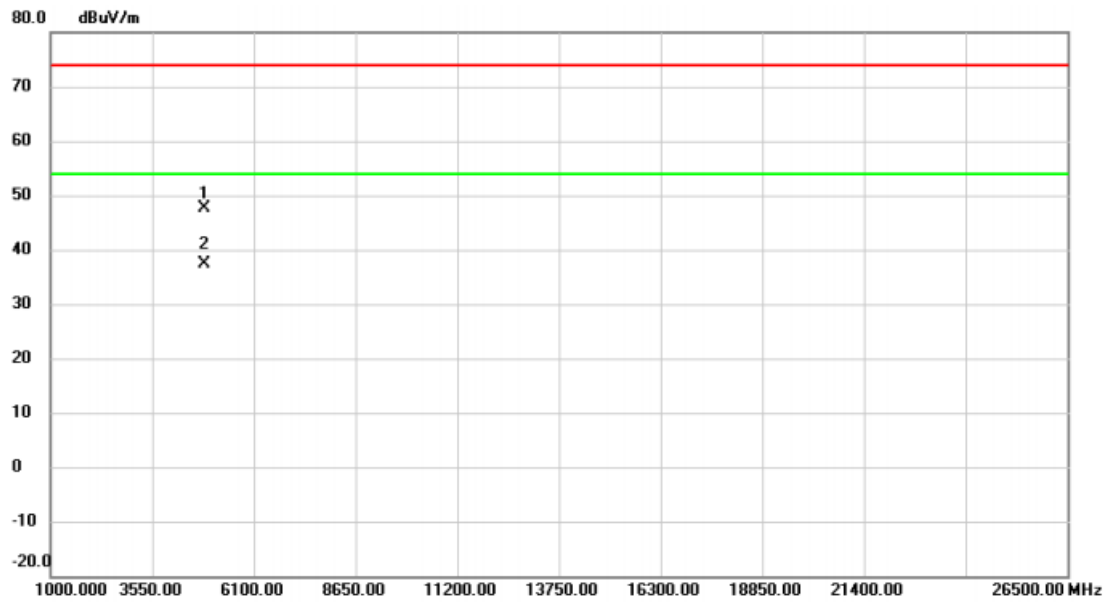


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2435.500	72.29	32.80	105.09	54.00	51.09	AVG	No Limit
2	X	2437.800	82.95	32.80	115.75	74.00	41.75	peak	No Limit

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Vertical
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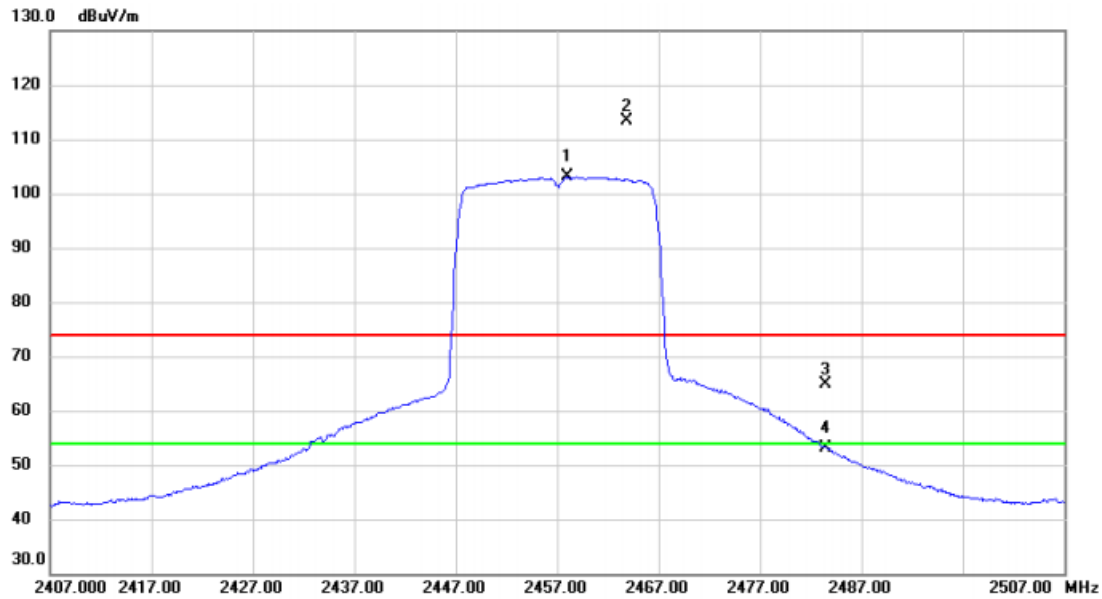
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4870.358	61.78	-14.26	47.52	74.00	-26.48	peak	
2 *	4872.567	51.66	-14.26	37.40	54.00	-16.60	AVG	

REMARKS:

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

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

Test Mode	TX AX(HE20) Mode 2457 MHz	Polarization	Vertical
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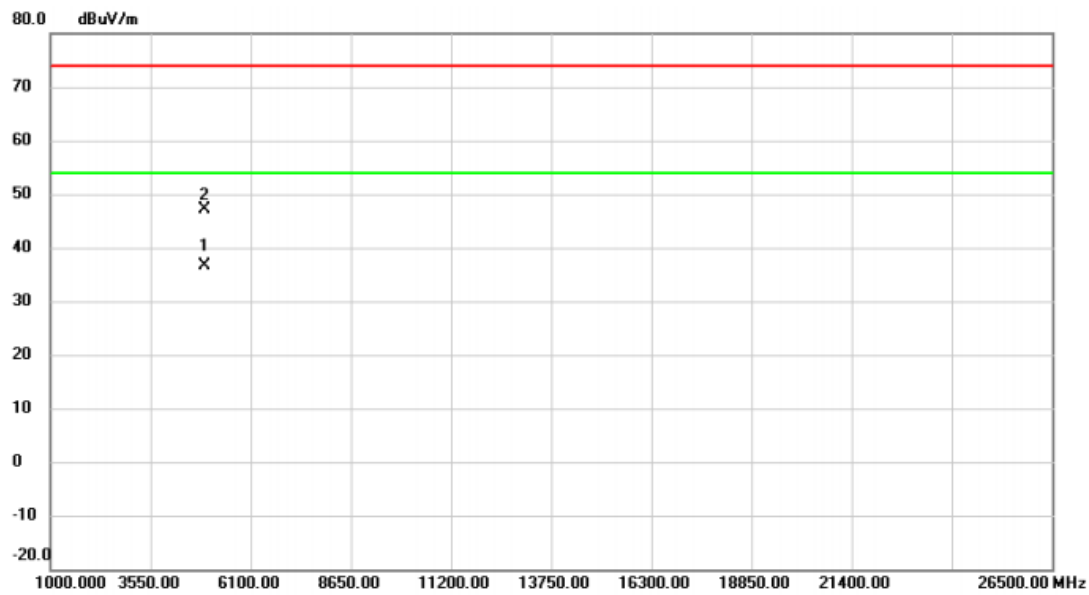


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2458.000	70.15	32.88	103.03	54.00	49.03	AVG	No Limit
2	X	2463.900	80.39	32.90	113.29	74.00	39.29	peak	No Limit
3		2483.500	32.03	32.97	65.00	74.00	-9.00	peak	
4		2483.500	20.15	32.97	53.12	54.00	-0.88	AVG	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2457 MHz	Polarization	Vertical
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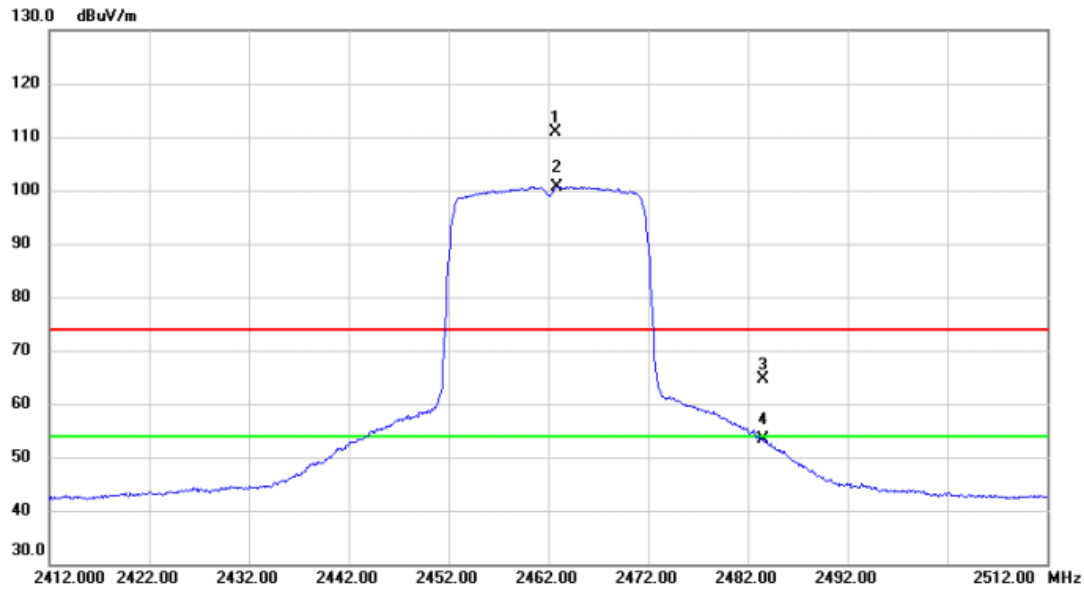


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	4915.940	50.76	-14.10	36.66	54.00	-17.34	AVG	
2		4917.220	61.29	-14.10	47.19	74.00	-26.81	peak	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Vertical
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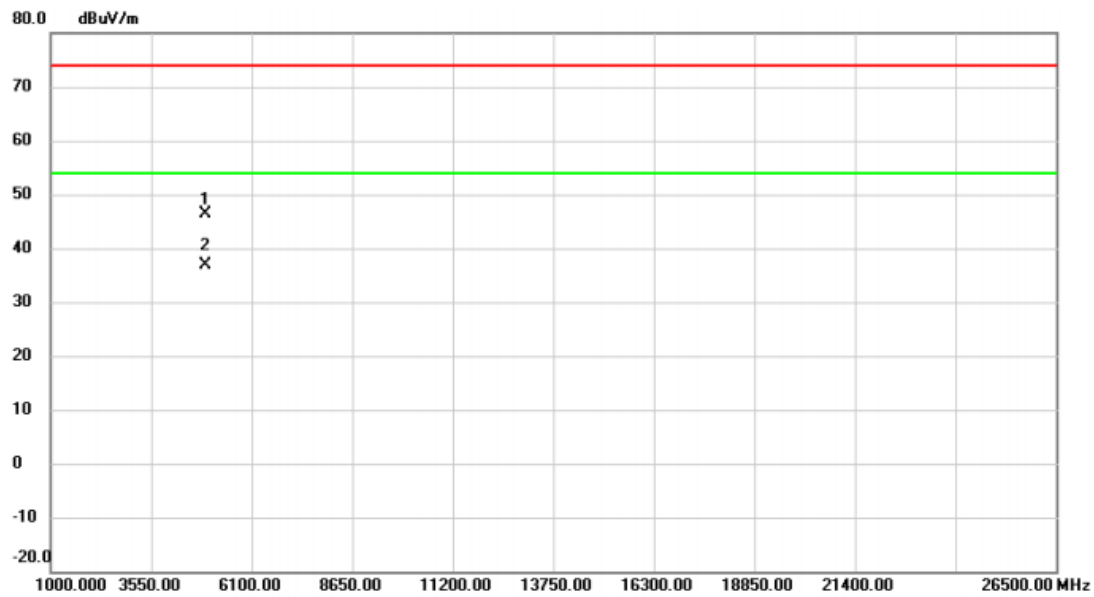


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2462.700	77.91	32.90	110.81	74.00	36.81	peak	No Limit
2	*	2462.800	67.80	32.90	100.70	54.00	46.70	AVG	No Limit
3		2483.500	31.64	32.97	64.61	74.00	-9.39	peak	
4		2483.500	20.33	32.97	53.30	54.00	-0.70	AVG	

REMARKS:

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

Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Vertical
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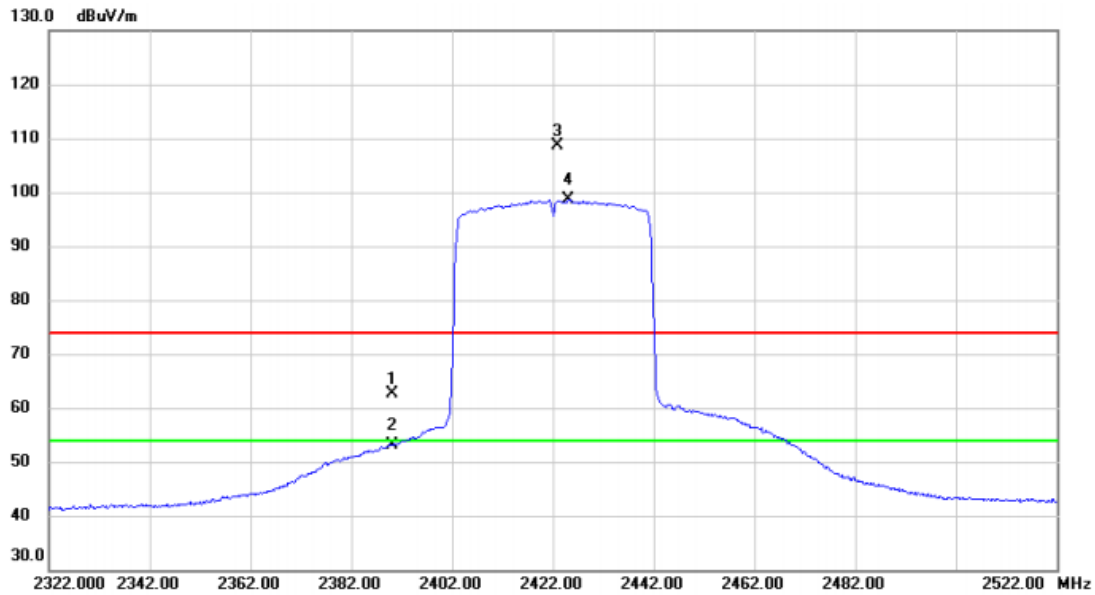


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.180	60.40	-14.08	46.32	74.00	-27.68	peak	
2	*	4925.520	50.91	-14.06	36.85	54.00	-17.15	AVG	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Vertical
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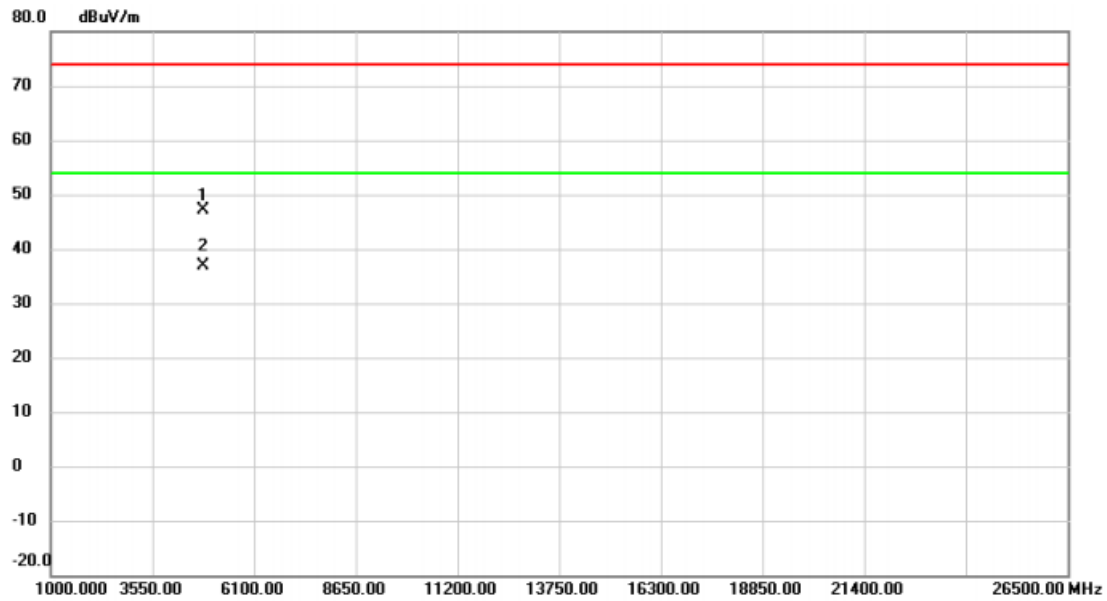


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	30.01	32.63	62.64	74.00	-11.36	peak	
2		2390.000	20.55	32.63	53.18	54.00	-0.82	AVG	
3	X	2422.800	75.83	32.75	108.58	74.00	34.58	peak	No Limit
4	*	2425.200	65.95	32.76	98.71	54.00	44.71	AVG	No Limit

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Vertical
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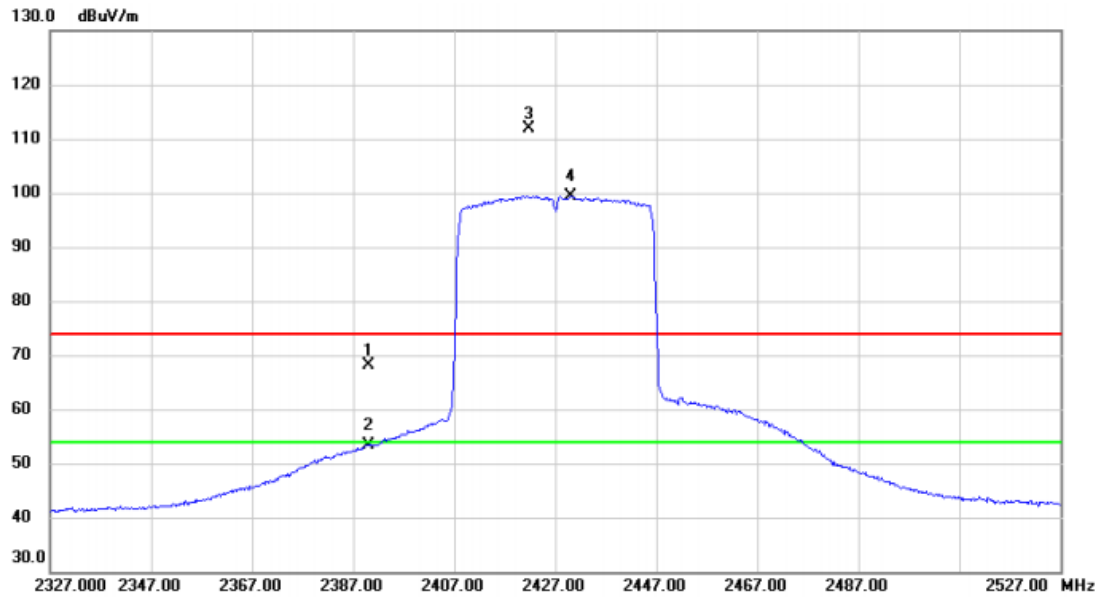


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4840.660	61.49	-14.37	47.12	74.00	-26.88	peak	
2	*	4840.720	51.15	-14.37	36.78	54.00	-17.22	AVG	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2427 MHz	Polarization	Vertical
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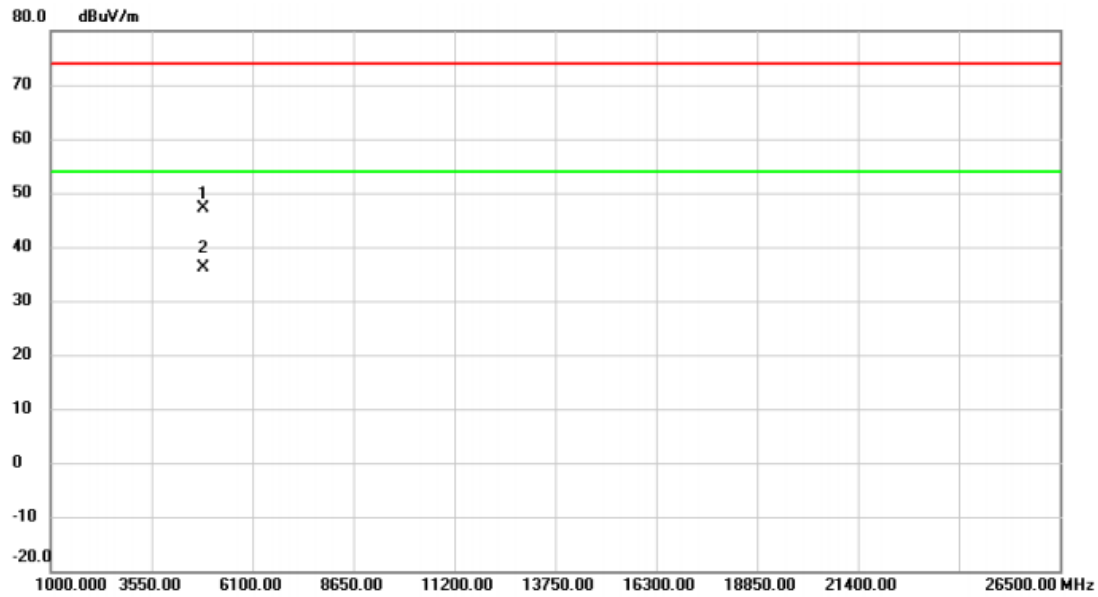


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	35.52	32.63	68.15	74.00	-5.85	peak	
2		2390.000	20.77	32.63	53.40	54.00	-0.60	AVG	
3	X	2421.800	79.01	32.75	111.76	74.00	37.76	peak	No Limit
4	*	2430.200	66.66	32.78	99.44	54.00	45.44	AVG	No Limit

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2427 MHz	Polarization	Vertical
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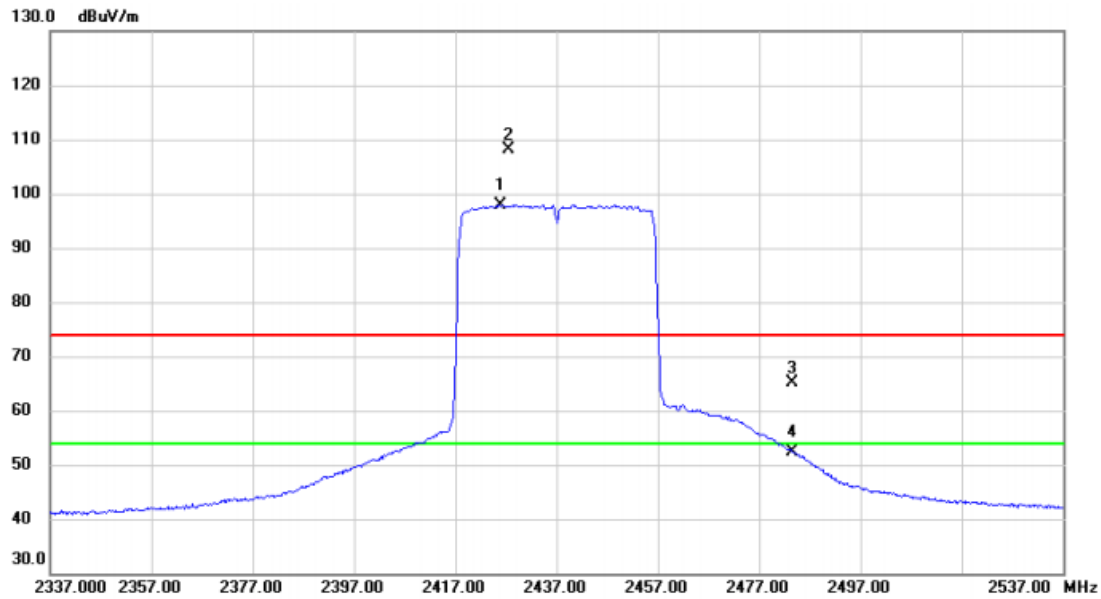


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4849.150	61.57	-14.33	47.24	74.00	-26.76	peak	
2	*	4852.060	50.40	-14.33	36.07	54.00	-17.93	AVG	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Vertical
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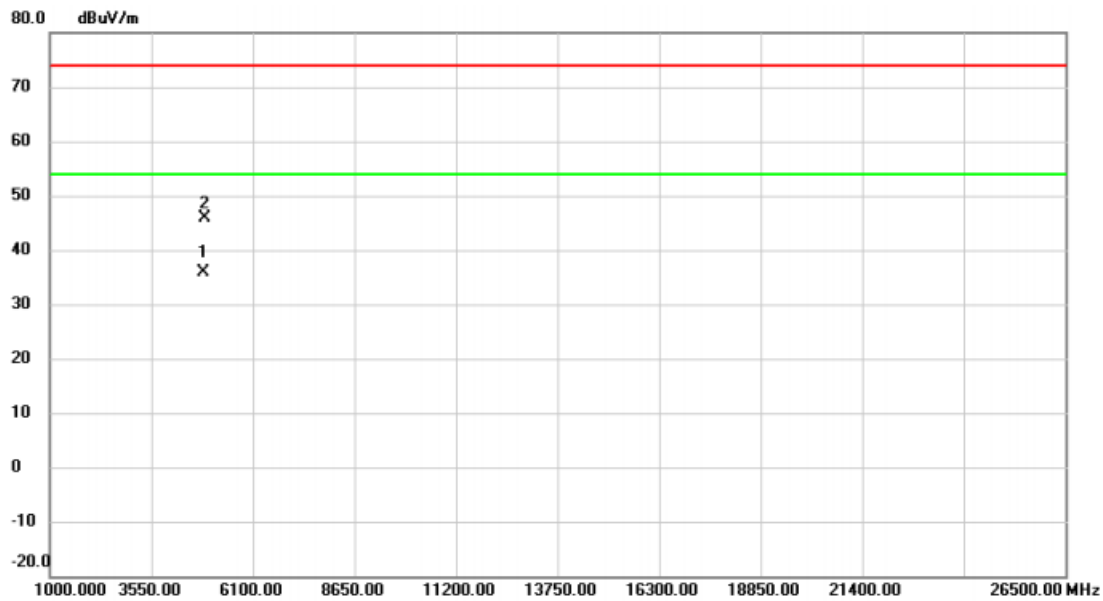


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2426.000	65.15	32.76	97.91	54.00	43.91	AVG	No Limit
2	X	2427.600	75.43	32.77	108.20	74.00	34.20	peak	No Limit
3		2483.500	32.24	32.97	65.21	74.00	-8.79	peak	
4		2483.500	19.29	32.97	52.26	54.00	-1.74	AVG	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Vertical
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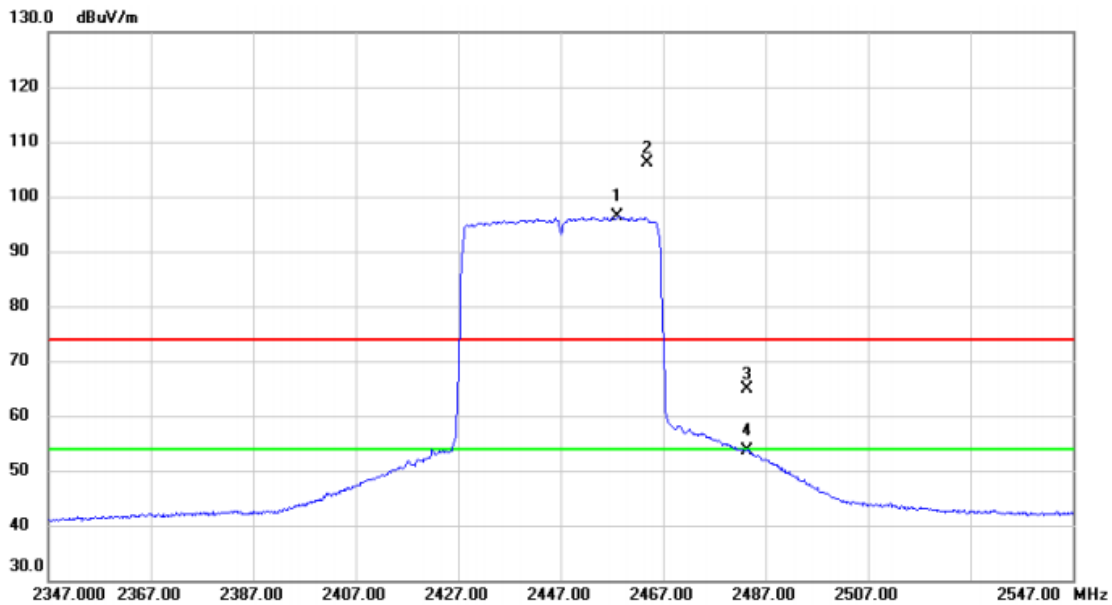


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4870.510	50.03	-14.26	35.77	54.00	-18.23	AVG	
2		4876.140	59.99	-14.23	45.76	74.00	-28.24	peak	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2447 MHz	Polarization	Vertical
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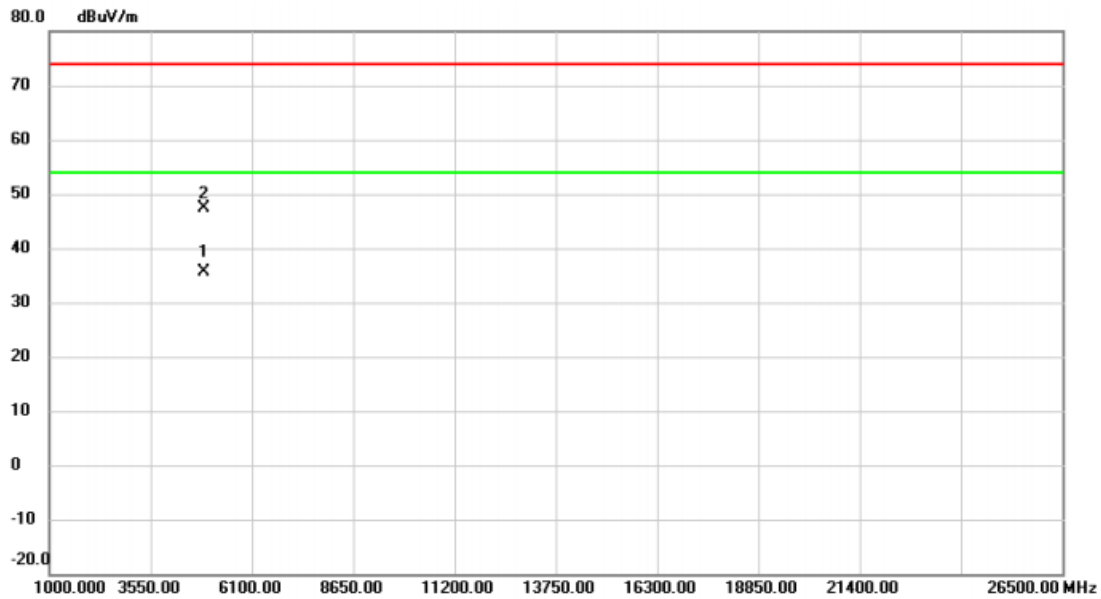


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2458.200	63.47	32.88	96.35	54.00	42.35	AVG	No Limit
2	X	2463.800	73.20	32.90	106.10	74.00	32.10	peak	No Limit
3		2483.500	32.02	32.97	64.99	74.00	-9.01	peak	
4		2483.500	20.75	32.97	53.72	54.00	-0.28	AVG	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2447 MHz	Polarization	Vertical
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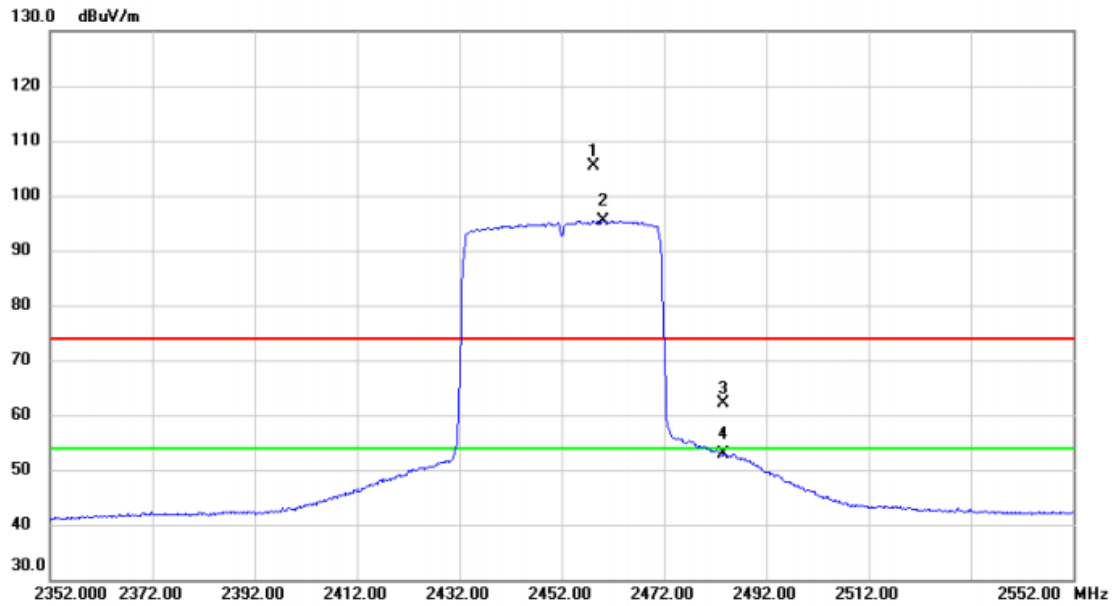


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4890.560	49.83	-14.19	35.64	54.00	-18.36	AVG	
2		4895.290	61.45	-14.17	47.28	74.00	-26.72	peak	

REMARKS:

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

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Vertical
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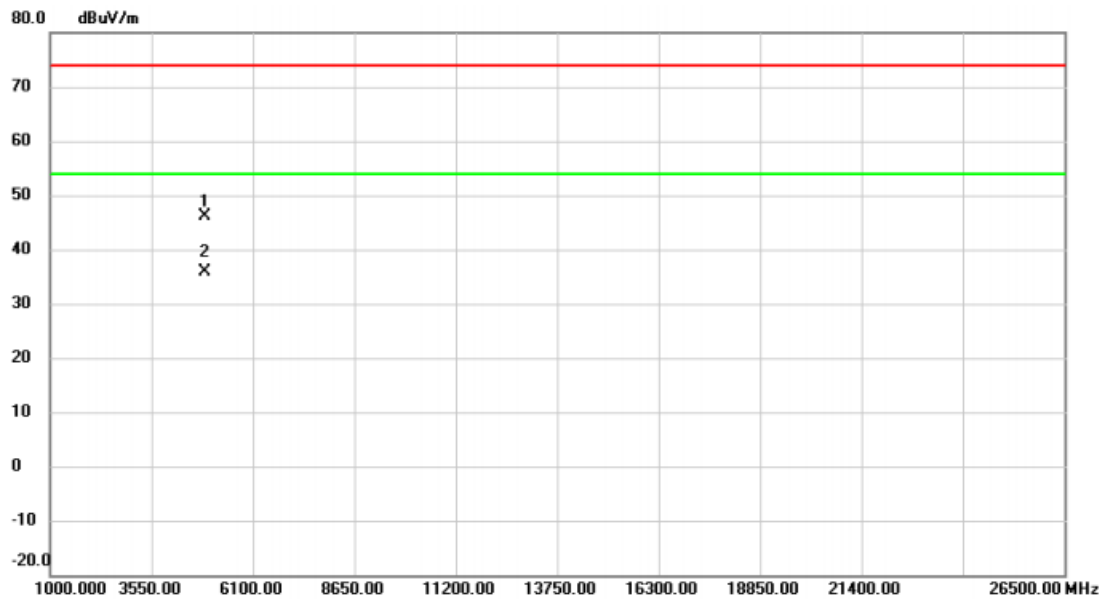
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	2458.200	72.53	32.88	105.41	74.00	31.41	peak	No Limit
2	*	2460.000	62.47	32.88	95.35	54.00	41.35	AVG	No Limit
3		2483.500	29.12	32.97	62.09	74.00	-11.91	peak	
4		2483.500	19.82	32.97	52.79	54.00	-1.21	AVG	

REMARKS:

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

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

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Vertical
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4899.480	60.32	-14.16	46.16	74.00	-27.84	peak	
2	*	4902.340	50.06	-14.16	35.90	54.00	-18.10	AVG	

REMARKS:

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

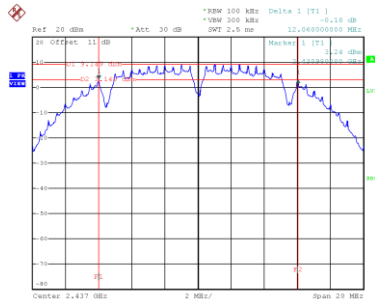
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

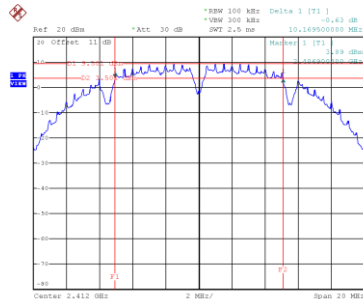
Test Mode	TX B Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	12.060	14.960	0.5	Complies
06	2437	10.170	14.960	0.5	Complies
11	2462	11.090	14.960	0.5	Complies

CH01

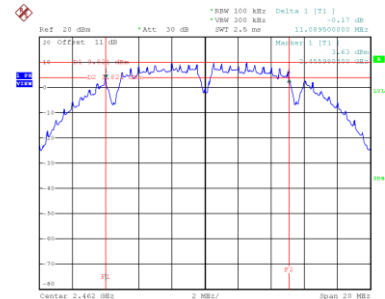


Date: 21.08P.2022 16:44:06

CH06
6 dB Bandwidth


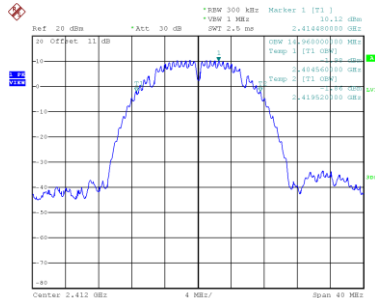
Date: 21.08P.2022 16:37:25

CH11

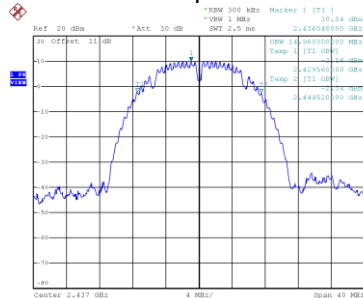


Date: 21.08P.2022 16:51:26

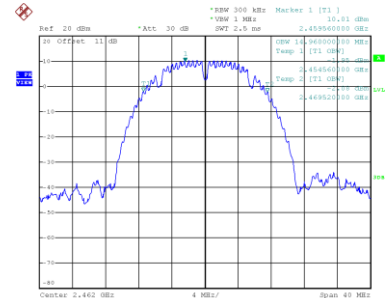
99 % Occupied Bandwidth



Date: 21.08P.2022 16:37:32



Date: 21.08P.2022 16:43:07

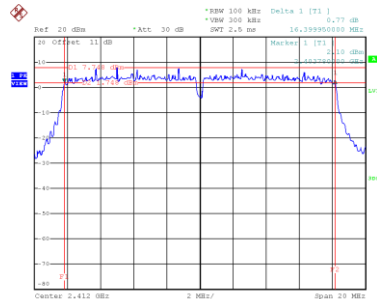


Date: 21.08P.2022 16:51:34

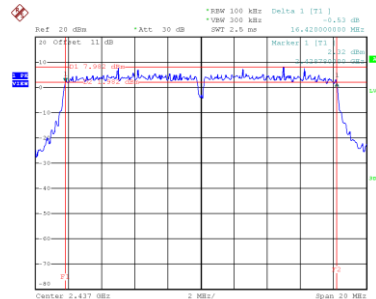
Test Mode	TX G Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	16.400	16.560	0.5	Complies
06	2437	16.420	16.560	0.5	Complies
11	2462	16.390	16.640	0.5	Complies

CH01

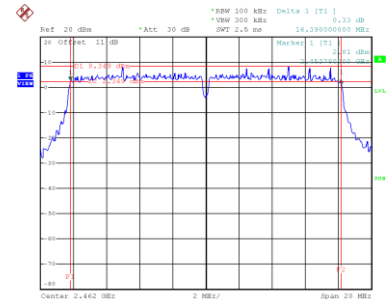


Date: 21.SEP.2022 17:40:14

CH06
6 dB Bandwidth


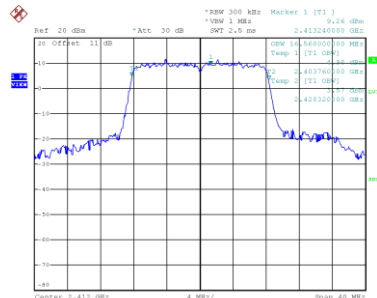
Date: 21.SEP.2022 17:36:13

CH11

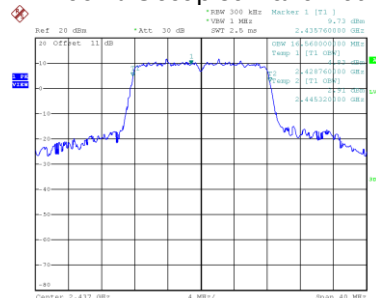


Date: 21.SEP.2022 17:32:33

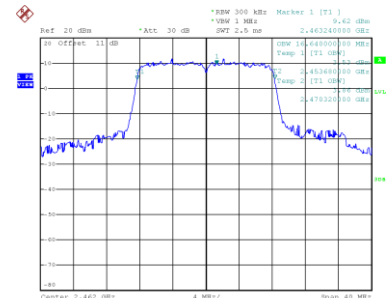
99 % Occupied Bandwidth



Date: 21.SEP.2022 17:40:21



Date: 21.SEP.2022 17:36:20

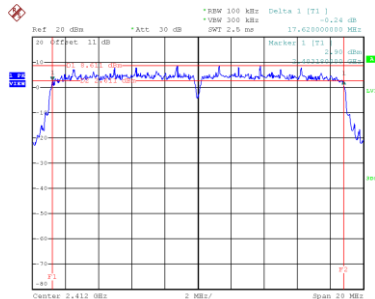


Date: 21.SEP.2022 17:32:40

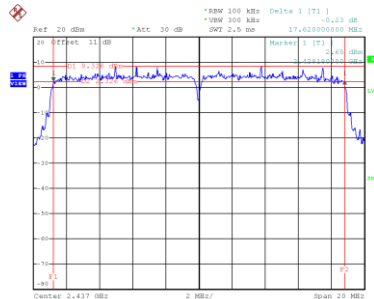
Test Mode	TX N(HT20) Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	17.620	17.680	0.5	Complies
06	2437	17.620	17.600	0.5	Complies
11	2462	17.620	17.680	0.5	Complies

CH01

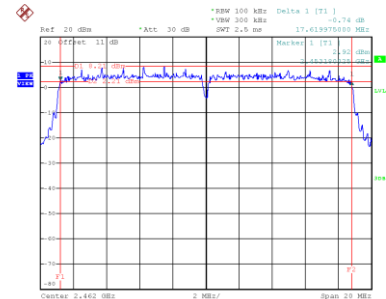


Date: 21.SEP.2022 17:46:23

CH06
6 dB Bandwidth


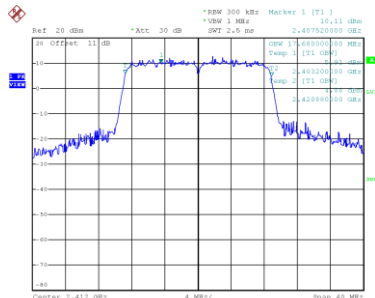
Date: 21.SEP.2022 17:52:33

CH11

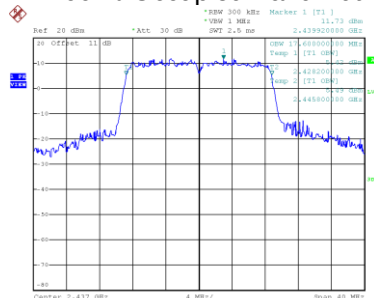


Date: 21.SEP.2022 17:59:33

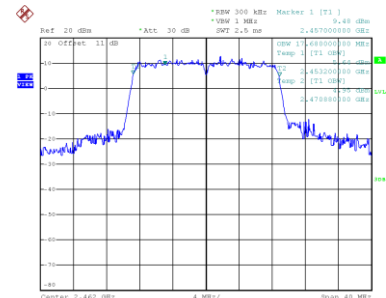
99 % Occupied Bandwidth



Date: 21.SEP.2022 17:46:30



Date: 21.SEP.2022 17:52:40

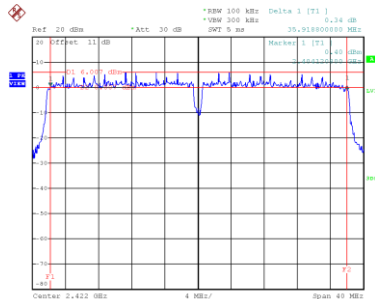


Date: 21.SEP.2022 17:59:40

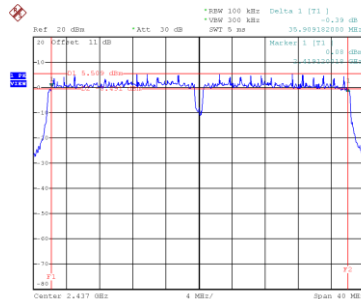
Test Mode	TX N(HT40) Mode
-----------	-----------------

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	35.919	36.320	0.5	Complies
06	2437	35.909	36.480	0.5	Complies
09	2452	36.160	36.640	0.5	Complies

CH03

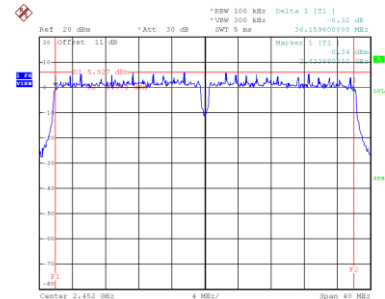


Date: 21.SEP.2022 21:10:51

CH06
6 dB Bandwidth


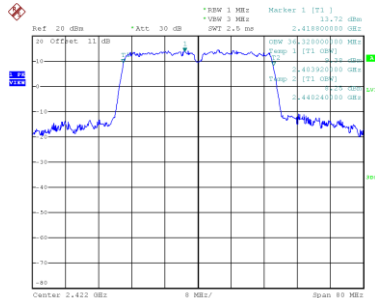
Date: 21.SEP.2022 20:58:31

CH09

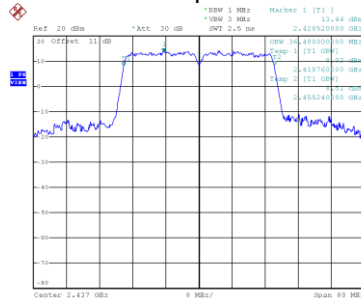


Date: 21.SEP.2022 20:50:50

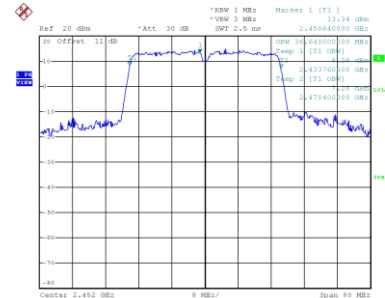
99 % Occupied Bandwidth



Date: 21.SEP.2022 21:10:58



Date: 21.SEP.2022 20:58:38

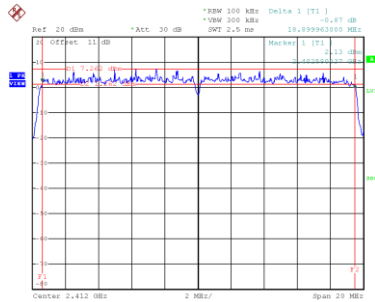


Date: 21.SEP.2022 20:50:57

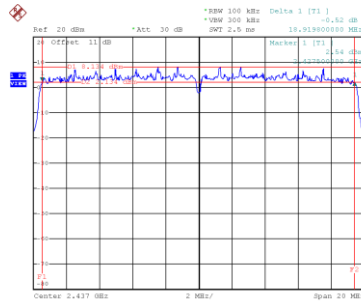
Test Mode	TX AX(HE20) Mode
-----------	------------------

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	18.900	19.040	0.5	Complies
06	2437	18.920	19.040	0.5	Complies
11	2462	18.630	19.040	0.5	Complies

CH01

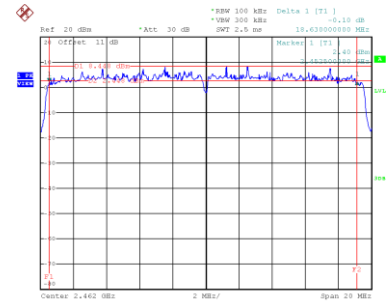


Date: 22.08P.2022 15:29:41

CH06
6 dB Bandwidth


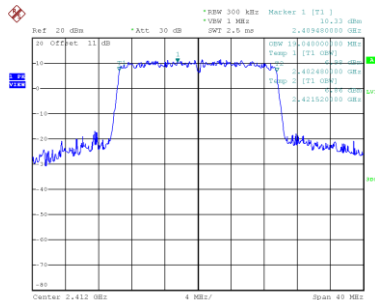
Date: 22.08P.2022 09:13:14

CH11

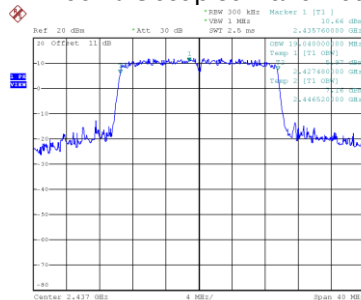


Date: 22.08P.2022 09:17:59

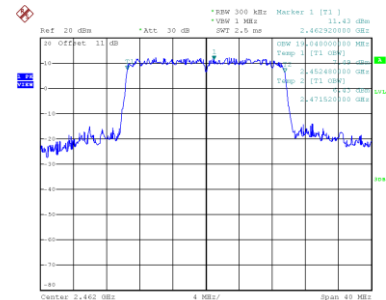
99 % Occupied Bandwidth



Date: 22.08P.2022 15:29:48



Date: 22.08P.2022 09:13:21

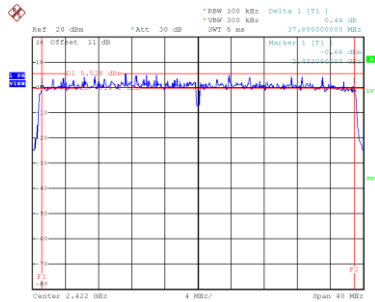


Date: 22.08P.2022 09:18:06

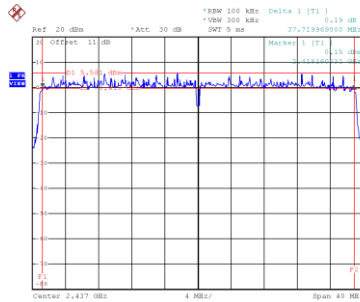
Test Mode	TX AX(HE40) Mode
-----------	------------------

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	37.800	38.080	0.5	Complies
06	2437	37.720	38.400	0.5	Complies
09	2452	37.800	38.080	0.5	Complies

CH03

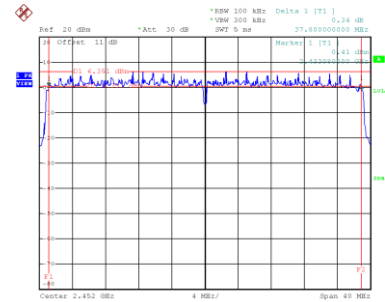


Date: 22.SEP.2022 10:16:13

CH06
6 dB Bandwidth


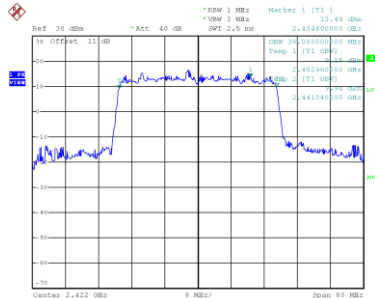
Date: 22.SEP.2022 10:07:33

CH09

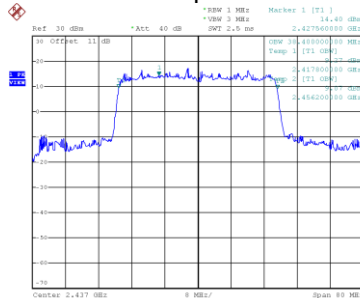


Date: 22.SEP.2022 10:01:41

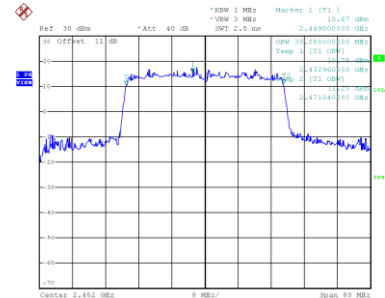
99 % Occupied Bandwidth



Date: 22.SEP.2022 10:22:03



Date: 22.SEP.2022 10:22:54



Date: 22.SEP.2022 10:23:13

APPENDIX F - MAXIMUM AVERAGE OUTPUT POWER

CDD

Test Mode	TX B Mode_Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.58	0.20	14.78	30.00	1.0000	Complies
06	2437	14.64	0.20	14.84	30.00	1.0000	Complies
11	2462	14.58	0.20	14.78	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.61	0.20	14.81	30.00	1.0000	Complies
06	2437	14.62	0.20	14.82	30.00	1.0000	Complies
11	2462	14.71	0.20	14.91	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.81	30.00	1.0000	Complies
06	2437	17.84	30.00	1.0000	Complies
11	2462	17.86	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.37	0.09	14.46	30.00	1.0000	Complies
06	2437	14.31	0.09	14.40	30.00	1.0000	Complies
11	2462	14.23	0.09	14.32	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.66	0.09	14.75	30.00	1.0000	Complies
06	2437	14.45	0.09	14.54	30.00	1.0000	Complies
11	2462	14.64	0.09	14.73	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.62	30.00	1.0000	Complies
06	2437	17.48	30.00	1.0000	Complies
11	2462	17.54	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.29	0.19	14.48	30.00	1.0000	Complies
06	2437	14.19	0.19	14.38	30.00	1.0000	Complies
11	2462	14.15	0.19	14.34	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.42	0.19	14.61	30.00	1.0000	Complies
06	2437	14.34	0.19	14.53	30.00	1.0000	Complies
11	2462	14.54	0.19	14.73	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.55	30.00	1.0000	Complies
06	2437	17.46	30.00	1.0000	Complies
11	2462	17.55	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	14.25	0.39	14.64	30.00	1.0000	Complies
06	2437	14.11	0.39	14.50	30.00	1.0000	Complies
09	2452	13.91	0.39	14.30	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	14.34	0.39	14.73	30.00	1.0000	Complies
06	2437	14.25	0.39	14.64	30.00	1.0000	Complies
09	2452	13.54	0.39	13.93	30.00	1.0000	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.70	30.00	1.0000	Complies
06	2437	17.58	30.00	1.0000	Complies
09	2452	17.13	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Ant. 1
-----------	-------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.41	0.23	14.64	30.00	1.0000	Complies
06	2437	14.48	0.23	14.71	30.00	1.0000	Complies
11	2462	14.45	0.23	14.68	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Ant. 2
-----------	-------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	14.52	0.23	14.75	30.00	1.0000	Complies
06	2437	14.61	0.23	14.84	30.00	1.0000	Complies
11	2462	14.78	0.23	15.01	30.00	1.0000	Complies

Test Mode	TX AX(HE20) Mode_Total
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	17.71	30.00	1.0000	Complies
06	2437	17.79	30.00	1.0000	Complies
11	2462	17.86	30.00	1.0000	Complies

Test Mode	TX AX(HE40) Mode_Ant. 1
-----------	-------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	14.51	0.23	14.74	30.00	1.0000	Complies
06	2437	14.38	0.23	14.61	30.00	1.0000	Complies
09	2452	13.86	0.23	14.09	30.00	1.0000	Complies

Test Mode	TX AX(HE40) Mode_Ant. 2
-----------	-------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	14.56	0.23	14.79	30.00	1.0000	Complies
06	2437	14.54	0.23	14.77	30.00	1.0000	Complies
09	2452	13.53	0.23	13.76	30.00	1.0000	Complies

Test Mode	TX AX(HE40) Mode_Total
-----------	------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	17.78	30.00	1.0000	Complies
06	2437	17.70	30.00	1.0000	Complies
09	2452	16.94	30.00	1.0000	Complies

APPENDIX G - CONDUCTED SPURIOUS EMISSIONS