

<b>Product Name: AX5700 Tri-Band Gigabit Wi-Fi 6E Router</b>	<b>Report No: FCC022022-5924RF3</b>
<b>Product Model: RX27 Pro; RX27 Pro</b>	<b>Security Classification: Open</b>
<b>Version: V1.0</b>	<b>Total Page: 271</b>

# TIRT Testing Report



<b>Prepared By:</b>	<b>Checked By:</b>	<b>Approved By:</b>	A circular blue stamp with the text "TIRT Shenzhen" in the center and "Beijing TIRT Technology Service Co., Ltd" around the perimeter.
Stone Tang	Randy Lv	Daniel Chen	
<i>Stone Tang</i>	<i>Randy Lv</i>	<i>Daniel chen</i>	

# FCC Radio Test Report

## FCC ID: V7TRX27P

This report concerns: Original Grant

**Project No.** : 022022-5924  
**Equipment** : AX5700 Tri-Band Gigabit Wi-Fi 6E Router  
**Brand Name** : Tenda  
**Test Model** : RX27 Pro  
**Series Model** : TX27 Pro  
**Applicant** : SHENZHEN TENDA TECHNOLOGY CO.,LTD.  
**Address** : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052  
**Manufacturer** : SHENZHEN TENDA TECHNOLOGY CO.,LTD.  
**Address** : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052  
**Date of Receipt** : Aug. 12, 2022  
**Date of Test** : Aug. 12, 2022 ~ Sep. 30, 2022  
**Issued Date** : Dec. 23, 2022  
**Report Version** : V1.0  
**Test Sample** : 20220814019908  
**Standard(s)** : FCC CFR Title 47, Part 15, Subpart E  
ANSI C63.10-2013  
FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01r01  
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01  
FCC KDB 662911 D01 Multiple Transmitter Output v02r01

- 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.

Lab: Beijing TIRT Technology Service Co.,Ltd Shenzhen

Add: 101, 3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street, Pingshan District, Shenzhen, China  
TEL: +86-0755-27087573

<b>Table of Contents</b>	<b>Page</b>
<b>REPORT ISSUED HISTORY</b>	<b>6</b>
<b>1 . SUMMARY OF TEST RESULTS</b>	<b>7</b>
1.1 TEST FACILITY	8
1.2 MEASUREMENT UNCERTAINTY	8
1.3 TEST ENVIRONMENT CONDITIONS	9
<b>2 . GENERAL INFORMATION</b>	<b>10</b>
2.1 GENERAL DESCRIPTION OF EUT	10
2.2 TEST MODES	15
2.3 PARAMETERS OF TEST SOFTWARE	18
2.4 DUTY CYCLE	22
2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	24
2.6 SUPPORT UNITS	24
<b>3 . AC POWER LINE CONDUCTED EMISSIONS</b>	<b>25</b>
3.1 LIMIT	25
3.2 TEST PROCEDURE	25
3.3 DEVIATION FROM TEST STANDARD	25
3.4 TEST SETUP	26
3.5 EUT OPERATION CONDITIONS	26
3.6 TEST RESULTS	26
<b>4 . RADIATED EMISSIONS</b>	<b>27</b>
4.1 LIMIT	27
4.2 TEST PROCEDURE	28
4.3 DEVIATION FROM TEST STANDARD	29
4.4 TEST SETUP	29
4.5 EUT OPERATION CONDITIONS	30
4.6 TEST RESULTS - 9 KHZ TO 30 MHZ	30
4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ	30
4.8 TEST RESULTS - ABOVE 1000 MHZ	30
<b>5 . BANDWIDTH</b>	<b>31</b>
5.1 LIMIT	31
5.2 TEST PROCEDURE	31
5.3 DEVIATION FROM STANDARD	31
5.4 TEST SETUP	31

<b>Table of Contents</b>	<b>Page</b>
5.5 EUT OPERATION CONDITIONS	31
5.6 TEST RESULTS	31
<b>6 . MAXIMUM E.I.R.P.</b>	<b>32</b>
6.1 LIMIT	32
6.2 TEST PROCEDURE	32
6.3 DEVIATION FROM STANDARD	32
6.4 TEST SETUP	33
6.5 EUT OPERATION CONDITIONS	33
6.6 TEST RESULTS	33
<b>7 . MAXIMUM POWER SPECTRAL DENSITY (E.I.R.P.)</b>	<b>34</b>
7.1 LIMIT	34
7.2 TEST PROCEDURE	34
7.3 DEVIATION FROM STANDARD	34
7.4 TEST SETUP	35
7.5 EUT OPERATION CONDITIONS	35
7.6 TEST RESULTS	35
<b>8 . IN-BAND EMISSION (MASK)</b>	<b>36</b>
8.1 LIMIT	36
8.2 TEST PROCEDURE	37
8.3 DEVIATION FROM STANDARD	37
8.4 TEST SETUP	37
8.5 EUT OPERATION CONDITIONS	37
8.6 TEST RESULTS	37
<b>9 . CONTENTION BASED PROTOCOL</b>	<b>38</b>
9.1 LIMIT	38
9.2 TEST PROCEDURE	39
9.3 DEVIATION FROM STANDARD	39
9.4 TEST SETUP	40
9.5 EUT OPERATION CONDITIONS	40
9.6 TEST RESULTS	40
<b>10 . MEASUREMENT INSTRUMENTS LIST</b>	<b>41</b>
<b>11 . EUT TEST PHOTOS</b>	<b>43</b>
<b>APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS</b>	<b>45</b>

<b>Table of Contents</b>	<b>Page</b>
<b>APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ</b>	<b>48</b>
<b>APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ</b>	<b>49</b>
<b>APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ</b>	<b>52</b>
<b>APPENDIX E - BANDWIDTH</b>	<b>139</b>
<b>APPENDIX F - MAXIMUM E.I.R.P.</b>	<b>162</b>
<b>APPENDIX G - MAXIMUM POWER SPECTRAL DENSITY (E.I.R.P.)</b>	<b>207</b>
<b>APPENDIX H - IN-BAND EMISSION (MASK)</b>	<b>230</b>
<b>APPENDIX I - CONTENTION BASED PROTOCOL</b>	<b>253</b>

**REPORT ISSUED HISTORY**

Report No.	Version	Description	Issued Date	Note
FCC022022-5924RF3	V1.0	Original Report.	Dec. 23, 2022	Valid

## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart E				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207 15.407(b)	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.407(b) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.407(a)	Bandwidth	APPENDIX E	PASS	-----
15.407(a)	Maximum e.i.r.p.	APPENDIX F	PASS	-----
15.407(a)	Maximum Power Spectral Density (e.i.r.p.)	APPENDIX G	PASS	-----
15.407(b)	In-Band Emission (Mask)	APPENDIX H	PASS	-----
15.407(d)	Contention Based Protocol	APPENDIX I	PASS	-----
15.407(g)	Frequency Stability	-----	PASS	NOTE (2)
15.203 15.407(a)	Antenna Requirements	-----	PASS	NOTE (3) NOTE (4)

**Note:**

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The item is declared by the manufacturer.
- (3) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.
- (4) The device employ a permanently attached integrated antenna.
- (5) Device Type:
  - Indoor access point
  - Subordinate device (operating under control of a low-power indoor access point)
  - Indoor client (operating under control of a low-power indoor access point)
  - Dual client (operating under control of either a low-power indoor access point or standard power access point)
  - Standard power access point
  - Standard client (operating under control of a Standard power access point)
  - Fixed client (operating under control of a Standard power access point)

**1.1 TEST FACILITY**

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
FCC Accredited Lab. Designation Number:	CN1309
FCC Test Firm Registration Number:	825524
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	±142.12kHz
RF power conducted	±0.74dB
RF power radiated	±3.25dB
Spurious emissions, conducted (9kHz~40GHz)	±1.78dB
Spurious emissions, radiated (9kHz~30MHz)	±2.8dB
Spurious emissions, radiated (30MHz~1GHz)	±4.6dB
Spurious emissions, radiated (1GHz ~ 18GHz)	±4.9dB
Spurious emissions, radiated (18GHz ~ 40GHz)	±5.54dB
Conduction Emissions(150kHz~30MHz)	±3.1dB
Humidity	±4.6%
Temperature	±0.7°C
Time	±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	22°C	55%	AC 120V/60Hz	Stone Tang
Radiated Emissions-9kHz to 30 MHz	22°C	55%	AC 120V/60Hz	Stone Tang
Radiated Emissions-30MHz to 1000MHz	22°C	54%	AC 120V/60Hz	Stone Tang
Radiated Emissions-Above 1000 MHz	23°C	53%	AC 120V/60Hz	Stone Tang
Bandwidth	23-24°C	52-60%	AC 120V/60Hz	Stone Tang
Maximum e.i.r.p.	23.4°C	63.5%	AC 120V/60Hz	Stone Tang
Maximum Power Spectral Density (e.i.r.p.)	23-24°C	52-60%	AC 120V/60Hz	Stone Tang
In-Band Emission (Mask)	23-24°C	52-60%	AC 120V/60Hz	Stone Tang
Contention Based Protocol	22°C	55%	AC 120V/60Hz	Stone Tang

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	AX5700 Tri-Band Gigabit Wi-Fi 6E Router
Brand Name	Tenda
Test Model	RX27 Pro
Series Model	TX27 Pro
Model Difference(s)	Only differ in model name.
Power Source	DC voltage supplied from AC adapter. Model: BN026-A24012U
Power Rating	I/P: 100-240V~ 50/60Hz 0.7A    O/P: 12.0V $\overline{=}$ 2.0A
Operation Frequency Band(s)	UNII-5: 5925 MHz ~ 6425 MHz UNII-6: 6425 MHz ~ 6525 MHz UNII-7: 6525 MHz ~ 6875 MHz UNII-8: 6875 MHz ~ 7125 MHz
Modulation Type	IEEE 802.11ax: OFDMA
Bit Rate of Transmitter	IEEE 802.11ax: up to 2402 Mbps
Maximum e.i.r.p. _UNII-5 Non Beamforming	IEEE 802.11ax(HE20): 22.85 dBm
Maximum e.i.r.p. _UNII-6 Non Beamforming	IEEE 802.11ax(HE80): 19.92 dBm
Maximum e.i.r.p. _UNII-7 Non Beamforming	IEEE 802.11ax(HE160): 22.65 dBm
Maximum e.i.r.p. _UNII-6+UNII-7 Non Beamforming	IEEE 802.11ax(HE160): 22.76 dBm
Maximum e.i.r.p. _UNII-8 Non Beamforming	IEEE 802.11ax(HE160): 22.33 dBm
Maximum e.i.r.p. _UNII-7+UNII-8 Non Beamforming	IEEE 802.11ax(HE160): 22.48 dBm
Maximum e.i.r.p. _UNII-5 Beamforming	IEEE 802.11ax(HE160): 25.63 dBm
Maximum e.i.r.p. _UNII-6 Beamforming	IEEE 802.11ax(HE80): 22.68 dBm
Maximum e.i.r.p. _UNII-7 Beamforming	IEEE 802.11ax(HE160): 25.37 dBm
Maximum e.i.r.p. _UNII-6+UNII-7 Beamforming	IEEE 802.11ax(HE160): 25.51 dBm
Maximum e.i.r.p. _UNII-8 Beamforming	IEEE 802.11ax(HE160): 25.09 dBm
Maximum e.i.r.p. _UNII-7+UNII-8 Beamforming	IEEE 802.11ax(HE160): 25.21 dBm

## Note:

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

## 2. Channel List:

UNII-5					
IEEE 802.11ax(HE20)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5955	33	6115	65	6275
5	5975	37	6135	69	6295
9	5995	41	6155	73	6315
13	6015	45	6175	77	6335
17	6035	49	6195	81	6355
21	6055	53	6215	85	6375
25	6075	57	6235	89	6395
29	6095	61	6255	93	6415

UNII-5					
IEEE 802.11ax(HE40)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	5965	35	6125	67	6285
11	6005	43	6165	75	6325
19	6045	51	6205	83	6365
27	6085	59	6245	91	6405

UNII-5					
IEEE 802.11ax(HE80)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
7	5985	39	6145	71	6305
23	6065	55	6225	87	6385

UNII-5					
IEEE 802.11ax(HE160)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
15	6025	47	6185	79	6345

UNII-6					
IEEE 802.11ax(HE20)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
97	6435	105	6475	113	6515
101	6455	109	6495		

UNII-6					
IEEE 802.11ax(HE40)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
99	6445	107	6485	115	6525

UNII-6					
IEEE 802.11ax(HE80)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
103	6465				

UNII-6					
IEEE 802.11ax(HE160)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
111	6505				

UNII-7					
IEEE 802.11ax(HE20)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
117	6535	141	6655	165	6775
121	6555	145	6675	169	6795
125	6575	149	6695	173	6815
129	6595	153	6715	177	6835
133	6615	157	6735	181	6855
137	6635	161	6755	185	6875

UNII-7					
IEEE 802.11ax(HE40)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
123	6565	147	6685	171	6805
131	6605	155	6725	179	6845
139	6645	163	6765		

UNII-7					
IEEE 802.11ax(HE80)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
119	6545	151	6705	183	6865
135	6625	167	6785		

UNII-7					
IEEE 802.11ax(HE160)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
143	6665	175	6825		

UNII-8					
IEEE 802.11ax(HE20)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
189	6895	205	6975	221	7055
193	6915	209	6995	225	7075
197	6935	213	7015	229	7095
201	6955	217	7035		

UNII-8					
IEEE 802.11ax(HE40)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
187	6885	203	6965	219	7045
195	6925	211	7005	227	7085

UNII-8					
IEEE 802.11ax(HE80)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
199	6945	215	7025		

UNII-8					
IEEE 802.11ax(HE160)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
207	6985				

### 3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	tp-link	N/A	Dipole	N/A	4.85
2	tp-link	N/A	Dipole	N/A	4.85

#### Note:

- This EUT supports CDD, and all antennas have the same gain, Directional gain =  $G_{ANT} + \text{Array Gain}$ . For power measurements, Array Gain=0dB ( $N_{ANT} \leq 4$ ), so the Directional gain=4.85. For power spectral density measurements,  $N_{ANT}=2$ ,  $N_{SS} = 1$ . So the Directional gain= $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/N_{SS})\text{dBi} = 4.85 + 10\log(2/1)\text{dBi} = 7.86$ .
- Beamforming Gain: 3dB. Then the Directional gain= $4.85 + 3 = 7.85$ . So the output power limit is  $30 - (7.85 - 6) = 28.15$ .
- The antenna gain and beamforming gain are provided by the manufacturer.

## 4. Table for Antenna Configuration:

Operating Mode	TX Mode	2TX
IEEE 802.11ax(HE20)		V (Ant. 1 + Ant. 2)
IEEE 802.11ax(HE40)		V (Ant. 1 + Ant. 2)
IEEE 802.11ax(HE80)		V (Ant. 1 + Ant. 2)
IEEE 802.11ax(HE160)		V (Ant. 1 + Ant. 2)

## 2.2 TEST MODES

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

Pretest Mode	Description
Mode 1	TX AX(HE20) Mode Channel 01/45/93 (UNII-5)
Mode 2	TX AX(HE40) Mode Channel 03/43/91 (UNII-5)
Mode 3	TX AX(HE80) Mode Channel 07/39/87 (UNII-5)
Mode 4	TX AC(HE160) Mode Channel 15/47/79 (UNII-5)
Mode 5	TX AX(HE20) Mode Channel 97/105/113 (UNII-6)
Mode 6	TX AX(HE40) Mode Channel 99/107 (UNII-6)
Mode 7	TX AX(HE80) Mode Channel 103 (UNII-6)
Mode 8	TX AX(HE20) Mode Channel 117/149/181 (UNII-7)
Mode 9	TX AX(HE40) Mode Channel 123/147/179 (UNII-7)
Mode 10	TX AX(HE80) Mode Channel 135/151/167 (UNII-7)
Mode 11	TX AX(HE160) Mode Channel 143 (UNII-7)
Mode 12	TX AX(HE40) Mode Channel 115 (UNII-6+UNII-7)
Mode 13	TX AX(HE80) Mode Channel 119 (UNII-6+UNII-7)
Mode 14	TX AX(HE160) Mode Channel 111 (UNII-6+UNII-7)
Mode 15	TX AX(HE20) Mode Channel 189/213 (UNII-8)
Mode 16	TX AX(HE40) Mode Channel 195/211/227 (UNII-8)
Mode 17	TX AX(HE80) Mode Channel 199/215 (UNII-8)
Mode 18	TX AX(HE160) Mode Channel 207 (UNII-8)
Mode 19	TX AX(HE20) Mode Channel 185 (UNII-7+UNII-8)
Mode 20	TX AX(HE40) Mode Channel 187 (UNII-7+UNII-8)
Mode 21	TX AX(HE80) Mode Channel 183 (UNII-7+UNII-8)
Mode 22	TX AX(HE160) Mode Channel 175 (UNII-7+UNII-8)
Mode 23	TX AX(HE160) Mode Channel 15 (UNII-5)

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

<b>AC power line conducted emissions test</b>	
Final Test Mode	Description
Mode 23	TX AX(HE160) Mode Channel 15 (UNII-5)

<b>Radiated Emissions Test - Below 1GHz</b>	
Final Test Mode	Description
Mode 23	TX AX(HE160) Mode Channel 15 (UNII-5)

Radiated Emissions Test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX AX(HE20) Mode Channel 01/45/93 (UNII-5)
Mode 2	TX AX(HE40) Mode Channel 03/43/91 (UNII-5)
Mode 3	TX AX(HE80) Mode Channel 07/39/87 (UNII-5)
Mode 4	TX AC(HE160) Mode Channel 15/47/79 (UNII-5)
Mode 5	TX AX(HE20) Mode Channel 97/105/113 (UNII-6)
Mode 6	TX AX(HE40) Mode Channel 99/107 (UNII-6)
Mode 7	TX AX(HE80) Mode Channel 103 (UNII-6)
Mode 8	TX AX(HE20) Mode Channel 117/149/181 (UNII-7)
Mode 9	TX AX(HE40) Mode Channel 123/147/179 (UNII-7)
Mode 10	TX AX(HE80) Mode Channel 135/151/167 (UNII-7)
Mode 11	TX AX(HE160) Mode Channel 143 (UNII-7)
Mode 12	TX AX(HE40) Mode Channel 115 (UNII-6+UNII-7)
Mode 13	TX AX(HE80) Mode Channel 119 (UNII-6+UNII-7)
Mode 14	TX AX(HE160) Mode Channel 111 (UNII-6+UNII-7)
Mode 15	TX AX(HE20) Mode Channel 189/213 (UNII-8)
Mode 16	TX AX(HE40) Mode Channel 195/211/227 (UNII-8)
Mode 17	TX AX(HE80) Mode Channel 199/215 (UNII-8)
Mode 18	TX AX(HE160) Mode Channel 207 (UNII-8)
Mode 19	TX AX(HE20) Mode Channel 185 (UNII-7+UNII-8)
Mode 20	TX AX(HE40) Mode Channel 187 (UNII-7+UNII-8)
Mode 21	TX AX(HE80) Mode Channel 183 (UNII-7+UNII-8)
Mode 22	TX AX(HE160) Mode Channel 175 (UNII-7+UNII-8)



Conducted Test	
Final Test Mode	Description
Mode 1	TX AX(HE20) Mode Channel 01/45/93 (UNII-5)
Mode 2	TX AX(HE40) Mode Channel 03/43/91 (UNII-5)
Mode 3	TX AX(HE80) Mode Channel 07/39/87 (UNII-5)
Mode 4	TX AC(HE160) Mode Channel 15/47/79 (UNII-5)
Mode 5	TX AX(HE20) Mode Channel 97/105/113 (UNII-6)
Mode 6	TX AX(HE40) Mode Channel 99/107 (UNII-6)
Mode 7	TX AX(HE80) Mode Channel 103 (UNII-6)
Mode 8	TX AX(HE20) Mode Channel 117/149/181 (UNII-7)
Mode 9	TX AX(HE40) Mode Channel 123/147/179 (UNII-7)
Mode 10	TX AX(HE80) Mode Channel 135/151/167 (UNII-7)
Mode 11	TX AX(HE160) Mode Channel 143 (UNII-7)
Mode 12	TX AX(HE40) Mode Channel 115 (UNII-6+UNII-7)
Mode 13	TX AX(HE80) Mode Channel 119 (UNII-6+UNII-7)
Mode 14	TX AX(HE160) Mode Channel 111 (UNII-6+UNII-7)
Mode 15	TX AX(HE20) Mode Channel 189/213 (UNII-8)
Mode 16	TX AX(HE40) Mode Channel 195/211/227 (UNII-8)
Mode 17	TX AX(HE80) Mode Channel 199/215 (UNII-8)
Mode 18	TX AX(HE160) Mode Channel 207 (UNII-8)
Mode 19	TX AX(HE20) Mode Channel 185 (UNII-7+UNII-8)
Mode 20	TX AX(HE40) Mode Channel 187 (UNII-7+UNII-8)
Mode 21	TX AX(HE80) Mode Channel 183 (UNII-7+UNII-8)
Mode 22	TX AX(HE160) Mode Channel 175 (UNII-7+UNII-8)

Note:

- (1) For AC power line conducted emissions and radiated emission below 1 GHz test, the IEEE 802.11ax(HE160) channel 15 is found to be the worst case and recorded.
- (2) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz and 26.5GHz~40GHz 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.
- (3) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (4) The measurements for e.i.r.p. are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.
- (5) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.

**2.3 PARAMETERS OF TEST SOFTWARE**
**Non Beamforming**

UNII-5			
Test Software Version	accessMTool_REL_3_2_1_3		
Frequency (MHz)	5955	6175	6415
IEEE 802.11ax(HE20)	23	28	28
Frequency (MHz)	5965	6165	6405
IEEE 802.11ax(HE40)	34	39	39
Frequency (MHz)	5985	6145	6385
IEEE 802.11ax(HE80)	45	47	47
Frequency (MHz)	6025	6185	6345
IEEE 802.11ax(HE160)	58	60	60

UNII-6			
Test Software Version	accessMTool_REL_3_2_1_3		
Frequency (MHz)	6435	6475	6515
IEEE 802.11ax(HE20)	27	28	26
Frequency (MHz)	6445	6485	
IEEE 802.11ax(HE40)	39	39	
Frequency (MHz)	6465		
IEEE 802.11ax(HE80)	47		

UNII-7			
Test Software Version	accessMTool_REL_3_2_1_3		
Frequency (MHz)	6535	6695	6855
IEEE 802.11ax(HE20)	26	26	26
Frequency (MHz)	6565	6685	6845
IEEE 802.11ax(HE40)	37	39	39
Frequency (MHz)	6625	6705	6785
IEEE 802.11ax(HE80)	47	47	49
Frequency (MHz)	6665		
IEEE 802.11ax(HE160)	60		

UNII-8			
Test Software Version	accessMTool_REL_3_2_1_3		
Frequency (MHz)	6895	7015	
IEEE 802.11ax(HE20)	26	29	
Frequency (MHz)	6925	7005	7085
IEEE 802.11ax(HE40)	39	39	39
Frequency (MHz)	6945	7025	
IEEE 802.11ax(HE80)	50	50	
Frequency (MHz)	6985		
IEEE 802.11ax(HE160)	60		

UNII-6+UNII-7	
Test Software Version	accessMTool_REL_3_2_1_3
Frequency (MHz)	6525
IEEE 802.11ax(HE40)	38
Frequency (MHz)	6545
IEEE 802.11ax(HE80)	45
Frequency (MHz)	6505
IEEE 802.11ax(HE160)	60

UNII-7+UNII-8	
Test Software Version	accessMTool_REL_3_2_1_3
Frequency (MHz)	6875
IEEE 802.11ax(HE20)	26
Frequency (MHz)	6885
IEEE 802.11ax(HE40)	39
Frequency (MHz)	6865
IEEE 802.11ax(HE80)	47
Frequency (MHz)	6825
IEEE 802.11ax(HE160)	60

**Beamforming**

UNII-5			
Test Software Version	accessMTool_REL_3_2_1_3		
Frequency (MHz)	5955	6175	6415
IEEE 802.11ax(HE20)	22	27	27
Frequency (MHz)	5965	6165	6405
IEEE 802.11ax(HE40)	33	38	38
Frequency (MHz)	5985	6145	6385
IEEE 802.11ax(HE80)	44	46	46
Frequency (MHz)	6025	6185	6345
IEEE 802.11ax(HE160)	57	59	59

UNII-6			
Test Software Version	accessMTool_REL_3_2_1_3		
Frequency (MHz)	6435	6475	6515
IEEE 802.11ax(HE20)	26	27	25
Frequency (MHz)	6445	6485	
IEEE 802.11ax(HE40)	38	38	
Frequency (MHz)	6465		
IEEE 802.11ax(HE80)	46		

UNII-7			
Test Software Version	accessMTool_REL_3_2_1_3		
Frequency (MHz)	6535	6695	6855
IEEE 802.11ax(HE20)	25	25	25
Frequency (MHz)	6565	6685	6845
IEEE 802.11ax(HE40)	36	38	38
Frequency (MHz)	6625	6705	6785
IEEE 802.11ax(HE80)	46	46	48
Frequency (MHz)	6665		
IEEE 802.11ax(HE160)	59		

UNII-8			
Test Software Version	accessMTool_REL_3_2_1_3		
Frequency (MHz)	6895	7015	
IEEE 802.11ax(HE20)	25	28	
Frequency (MHz)	6925	7005	7085
IEEE 802.11ax(HE40)	38	38	38
Frequency (MHz)	6945	7025	
IEEE 802.11ax(HE80)	49	49	
Frequency (MHz)	6985		
IEEE 802.11ax(HE160)	59		

UNII-6+UNII-7	
Test Software Version	accessMTool_REL_3_2_1_3
Frequency (MHz)	6525
IEEE 802.11ax(HE40)	37
Frequency (MHz)	6545
IEEE 802.11ax(HE80)	44
Frequency (MHz)	6505
IEEE 802.11ax(HE160)	59

UNII-7+UNII-8	
Test Software Version	accessMTool_REL_3_2_1_3
Frequency (MHz)	6875
IEEE 802.11ax(HE20)	25
Frequency (MHz)	6885
IEEE 802.11ax(HE40)	38
Frequency (MHz)	6865
IEEE 802.11ax(HE80)	46
Frequency (MHz)	6825
IEEE 802.11ax(HE160)	59

## 2.4 DUTY CYCLE

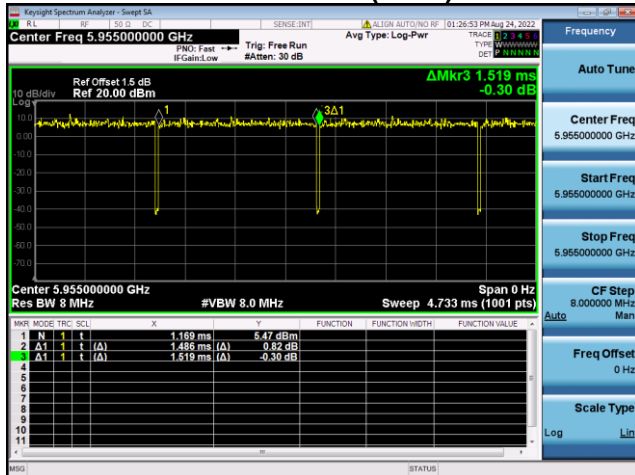
If duty cycle is  $\geq 98\%$ , duty factor is not required.

If duty cycle is  $< 98\%$ , duty factor shall be considered.

The output power = measured power + duty factor.

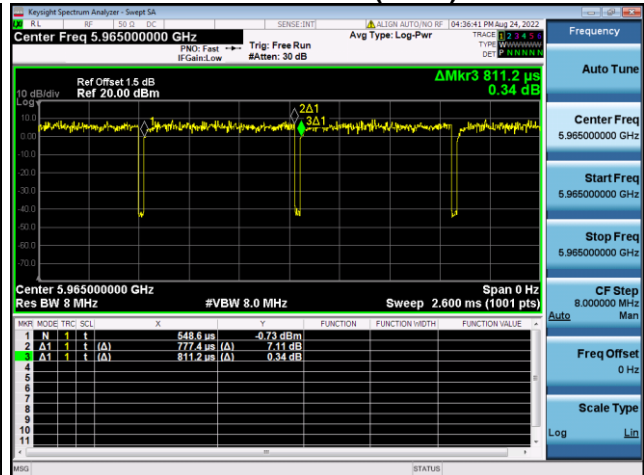
The power spectral density = measured power spectral density + duty factor.

**IEEE 802.11ax(HE20)**



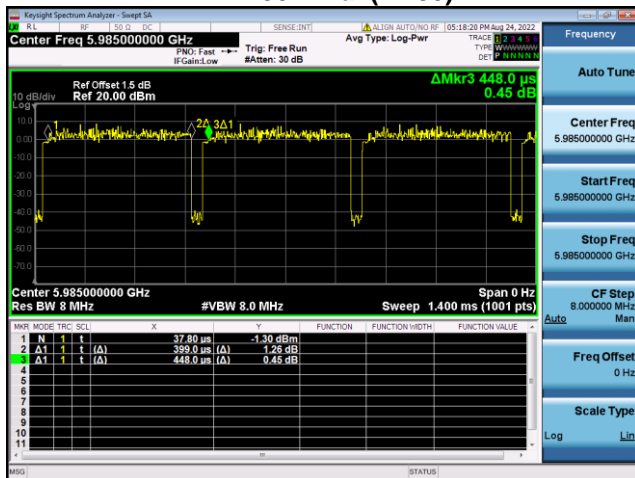
Duty cycle = 1.49 ms / 1.52 ms = 97.83%  
 Duty Factor =  $10 \log(1 / \text{Duty cycle}) = 0.10$

**IEEE 802.11ax(HE40)**



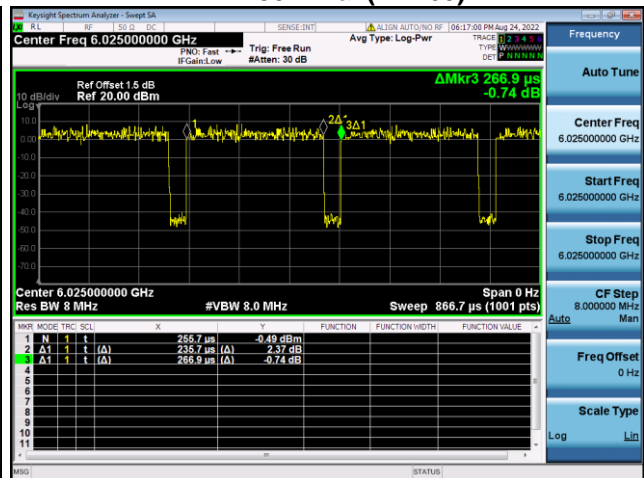
Duty cycle = 0.78 ms / 0.81 ms = 95.83%  
 Duty Factor =  $10 \log(1 / \text{Duty cycle}) = 0.18$

**IEEE 802.11ax(HE80)**



Duty cycle = 0.40 ms / 0.45 ms = 89.06%  
 Duty Factor =  $10 \log(1 / \text{Duty cycle}) = 0.50$

**IEEE 802.11ax(HE160)**



Duty cycle = 0.24 ms / 0.27 ms = 88.31%  
 Duty Factor =  $10 \log(1 / \text{Duty cycle}) = 0.54$

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 500 Hz (Duty cycle < 98%).

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 508 Hz (Duty cycle < 98%).

For IEEE 802.11ax(HE80):

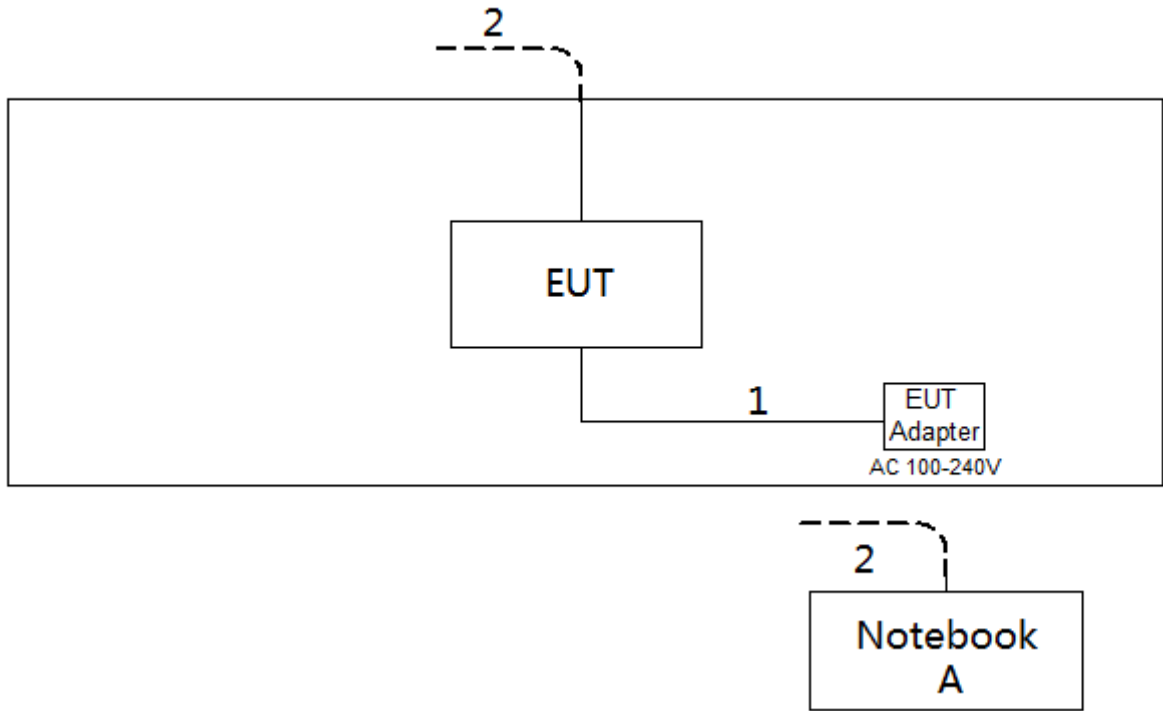
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 532 Hz (Duty cycle < 98%).

For IEEE 802.11ax(HE160):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 541 Hz (Duty cycle < 98%).

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

**2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**



**2.6 SUPPORT UNITS**

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Dell	Inspiron 15-7559	N/A

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



### 3. AC POWER LINE CONDUCTED EMISSIONS

#### 3.1 LIMIT

Frequency (MHz)	Limit (dBµV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

**NOTE:**

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)  
 Margin Level = Measurement Value - Limit Value

#### 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.

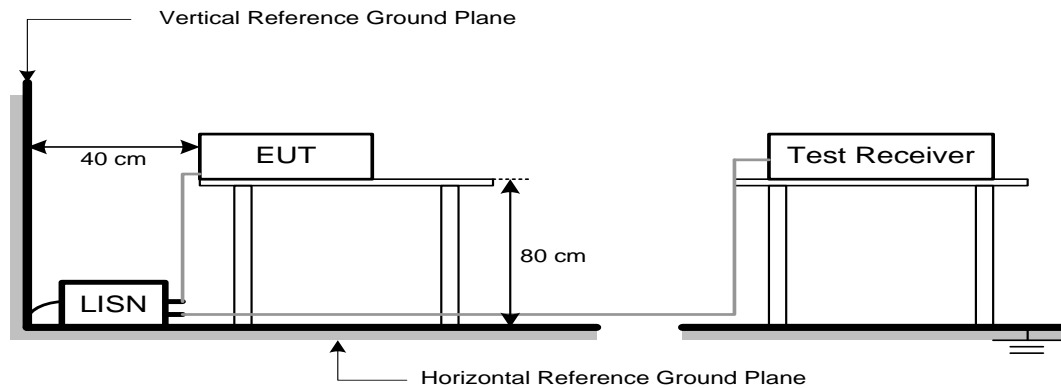
The following table is the setting of the receiver:

Receiver Parameter	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

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT was programmed to be in continuously transmitting/TX mode.

### 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) limit in the table below has to be followed.

#### LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

#### LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS (Above 1000 MHz)

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5925-7125	Average: -27	68.2

**NOTE:**

(1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

## 4.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

The following table is the setting of the receiver:

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

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic or 40 GHz, whichever is lower
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

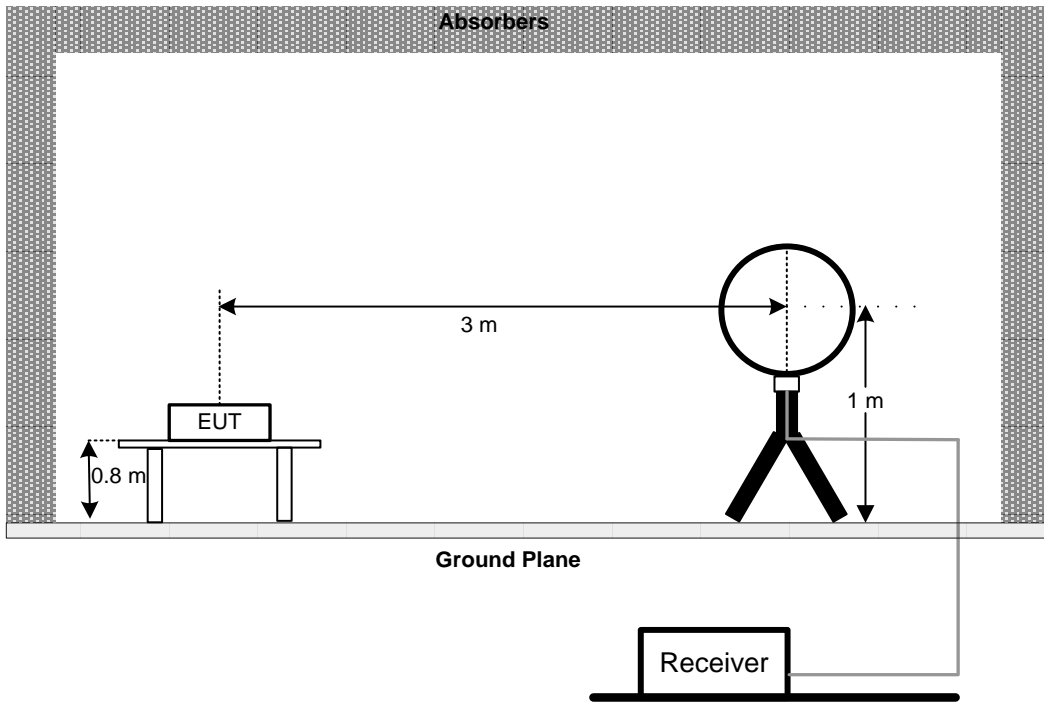
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

**4.3 DEVIATION FROM TEST STANDARD**

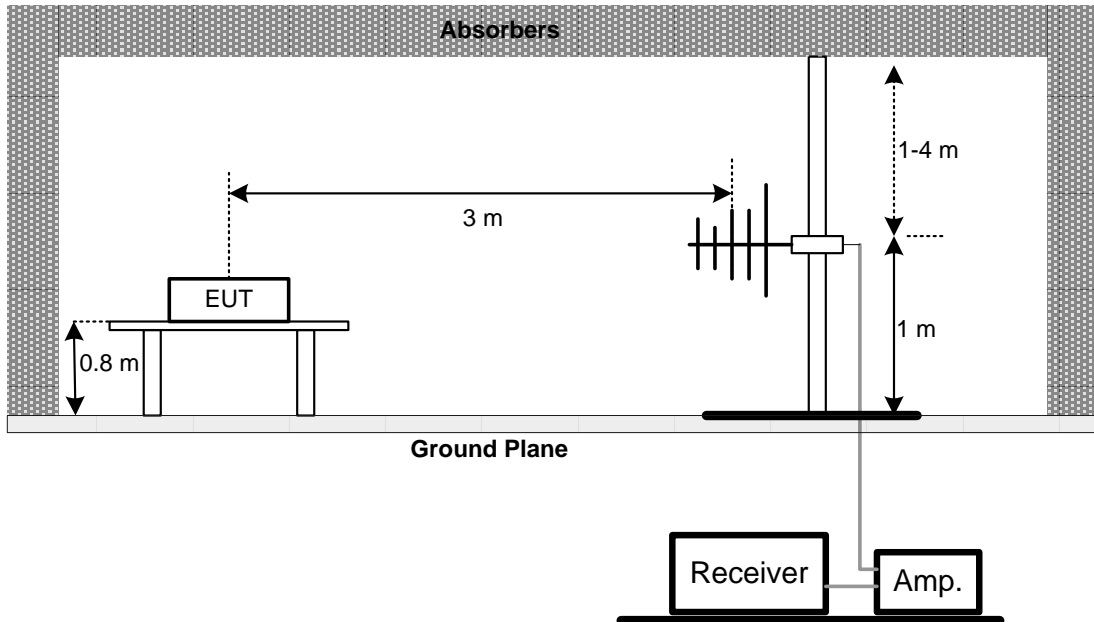
No deviation.

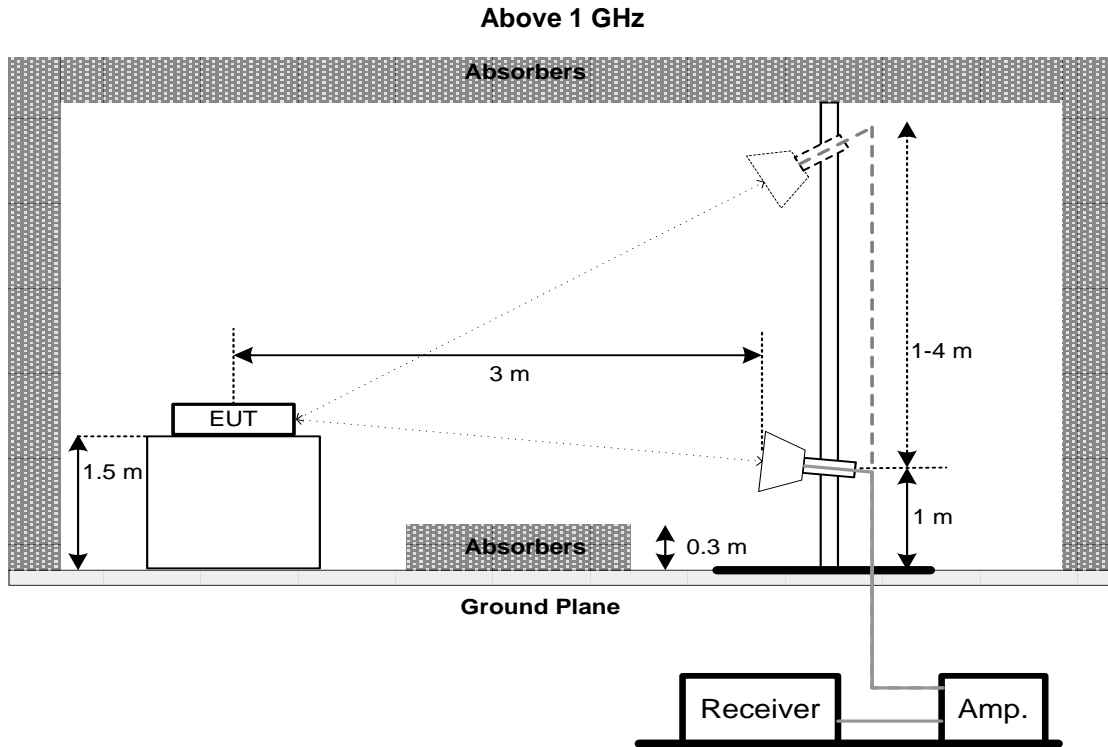
**4.4 TEST SETUP**

**9 kHz to 30 MHz**



**30 MHz to 1 GHz**





#### 4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

#### 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	Frequency Range (MHz)
FCC 15.407(a)	26 dB Bandwidth	Maximum 320 MHz	5925-7125

### 5.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

b. Spectrum Setting:

For 26 dB Bandwidth:

Spectrum Parameter	Setting
Span Frequency	> 26 dB Bandwidth
RBW	Approximately 1% of the emission bandwidth
VBW	> RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For 99% Occupied Bandwidth:

Spectrum Parameter	Setting
Span Frequency	1.5 times to 5 times the OBW
RBW	1% to 5% of the OBW
VBW	$\geq 3 \cdot \text{RBW}$
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

c. Measured the spectrum width with power higher than 26 dB below carrier.

### 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 E.I.R.P.

### 6.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	Maximum e.i.r.p.	Standard power access point and fixed client device 36 dBm	5925-6425 6525-6875
		Indoor access point 30 dBm	
		Subordinate device operating under the control of an indoor access point 30 dBm	
		Client devices operating under the control of a standard power access point 30 dBm	
		Client devices operating under the control of an indoor access point 24 dBm	6425-6525 6875-7125
		Indoor access point 30 dBm	
		Subordinate device operating under the control of an indoor access point 30 dBm	
		Client devices operating under the control of an indoor access point 24 dBm	

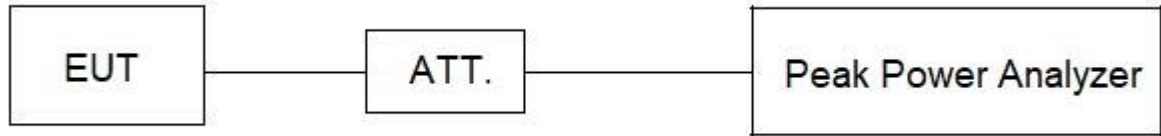
### 6.2 TEST PROCEDURE

- a. The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- b. Test test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

### 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. MAXIMUM POWER SPECTRAL DENSITY (E.I.R.P.)

### 7.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	Maximum Power Spectral Density (e.i.r.p.)	Standard power access point and fixed client device 23 dBm/MHz	5925-6425 6525-6875
		Indoor access point 5 dBm/MHz	
		Subordinate device operating under the control of an indoor access point 5 dBm/MHz	
		Client devices operating under the control of a standard power access point 17 dBm/MHz	
		Client devices operating under the control of an indoor access point -1 dBm/MHz	6425-6525 6875-7125
		Indoor access point 5 dBm/MHz	
		Subordinate device operating under the control of an indoor access point 5 dBm/MHz	
		Client devices operating under the control of an indoor access point -1 dBm/MHz	

### 7.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting:

Spectrum Parameter	Setting
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1 MHz
VBW	3 MHz
Detector	RMS
Trace average	100 trace
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.

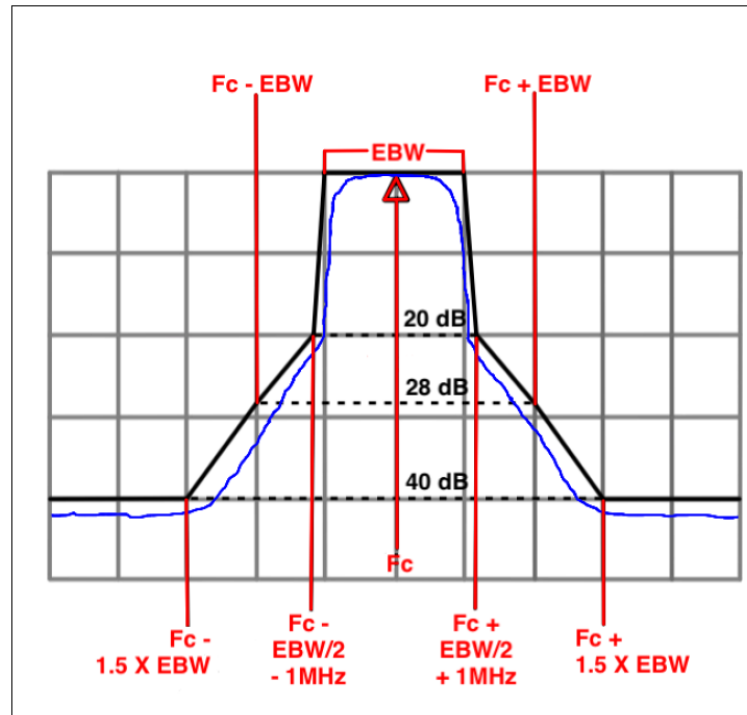
## 8. IN-BAND EMISSION (MASK)

### 8.1 LIMIT

Section	Test Item	Frequency Range (MHz)	(X) dBc (Note 1)
FCC 15.407(b)	In-Band Emission (Mask)	At 1MHz outside of channel edge	20
		At one channel bandwidth from the channel center (Note 2)	28
		At one- and one-half times the channel bandwidth away from channel center (Note 3)	40
		More than one- and one-half times the channel bandwidth	40

Note:

1. The power spectral density must be suppressed by "X" dB.
2. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression.
3. At frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression.



### 8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting:

Spectrum Parameter	Setting
Span Frequency	> 26 dB Bandwidth
RBW	Appromiximately 1% of the emission bandwidth
VBW	≥3xRBW
Detector	RMS
Trace average	100 trace
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. CONTENTION BASED PROTOCOL

### 9.1 LIMIT

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. (See note)

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

**Note:**

The EUT encounters the incumbent signal that its power level is less than or equal to the detection threshold (-62dBm) with reference to 0dBi antenna gain. And the incumbent signal level will be amplified by the EUT antenna gain to yield an actual injected signal at the antenna port, the actual injected is identified as an AWGN signal. The calculation is as follows:

Incumbent signal level (dBm) + Antenna Gain (dBi) = AWGN Signal power Level (dBm) Incumbent signal level (dBm)  $\leq$  Detection Threshold (-62dBm+3=-59dBm)

All incumbent signal levels in the report comply with the -59dBm threshold.

## 9.2 TEST PROCEDURE

a. Number of times detection threshold:

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ( $f_{c1}=f_{c2}$ )
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within $BW_{EUT}$
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within $BW_{EUT}$	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

Where:

$BW_{EUT}$ : Transmission bandwidth of EUT signal.

$BW_{Inc}$ : Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal).

$f_{c1}$ : Center frequency of EUT transmission.

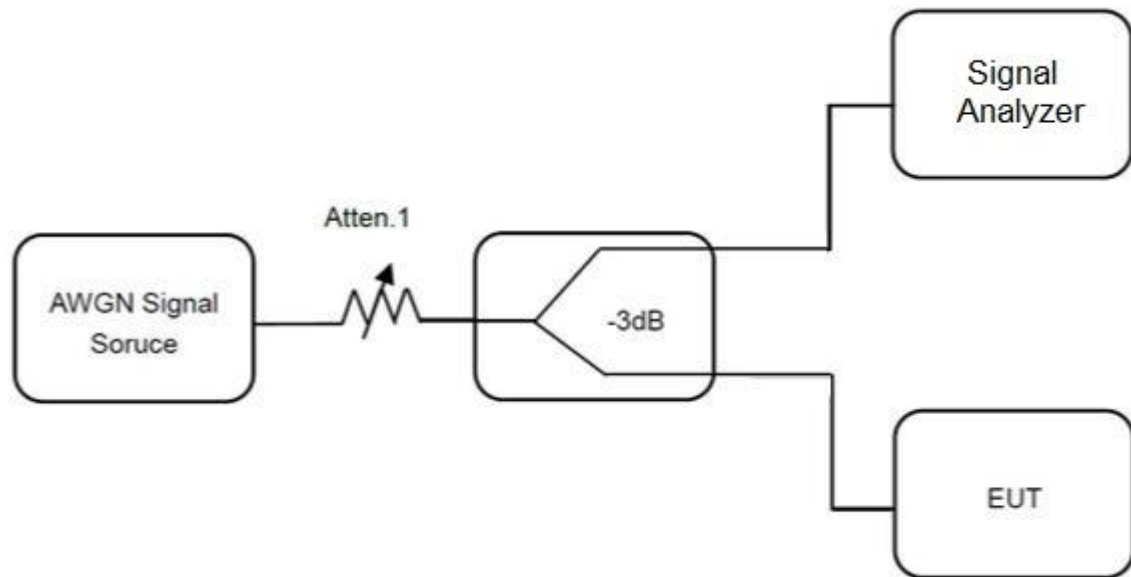
$f_{c2}$ : Center frequency of simulated incumbent signal.

- b. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use step b table to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- c. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer and the EUT as show in the block diagram below.
- d. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer.
- e. Monitor the signal analyzer to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- f. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- g. Refer to step b table to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step c, choose a different center frequency for the AWGN signal and repeat the process.

## 9.3 DEVIATION FROM STANDARD

No deviation.

#### 9.4 TEST SETUP



#### 9.5 EUT OPERATION CONDITIONS

The EUT was Configured to be in normally transmitting mode with a constant duty cycle.

#### 9.6 TEST RESULTS

Please refer to the APPENDIX I.



**10. 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	Log periodic antenna	Schwarzbeck	VULB 9163	VULB 9163-361	2022/11/20
10	Loop Antenna	Schwarzbeck	FMZB1519 B	00029	2023/07/03
11	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1201	2022/11/20
12	Horn Antenna	Schwarzbeck	BBHA 9170	9170#685	2022/11/20
13	Preamplifier	Schwarzbeck	BBV9745	#78	2022/11/09
14	Preamplifier	Schwarzbeck	BBV9721	9721-019	2022/11/09
15	Preamplifier	/	LNA 0920N	2014	2023/05/03
16	Preamplifier	Schwarzbeck	BBV 9718	284	2023/05/03
17	Preamplifier	RF System/UK	TRLA-0101 80G50B	22062101	2023/07/20
18	ECSI RF IN RF Cable	Rohde&Schwarz	AP-X1	N/A	2022/11/09
19	ECSI RF IN RF Cable	HAOXUN	Z-108	N/A	2022/11/09
20	RF Cable	ZDECL	ZT40-2.92J -2.92J-6M	18124358	2023/07/20
21	Spectrum Analyzer	Agilent	N9010A	MY51440158	2022/11/09
22	Spectrum Analyzer	Agilent	N9010A	MY52221119	2022/11/09
23	EMI Receiver	Rohde&Schwarz	ESU	100184	2023/07/20
24	Temp&Humidity Recorder	Anymetre	JR900	N/A	2022/11/03
25	Power Collection Unit	Tonscend	JS0806-2	188060134	2023/08/21
26	Temp&Humidity Chamber	ETOMA	NTH1100-30A	16080628	2022/11/03
27	MXA Signal Analyzer	Keysight	N9021B	MY60080169	2023/05/03
28	VXG Signal Generator	Keysight	M9384B	MY61270787	2023/05/03
29	EXG Analog Signal Generator	Keysight	N5173B	MY59101282	2023/05/03
30	RF Control Unit	Tonscend	JS0806-2	21G8060449	2023/05/03
31	Filter	STI	STI15-984 5	N/A	N/A

32	Filter	STI	5.1G	N/A	N/A
29	Filter	STI	STI15-984 5	N/A	N/A
30	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.

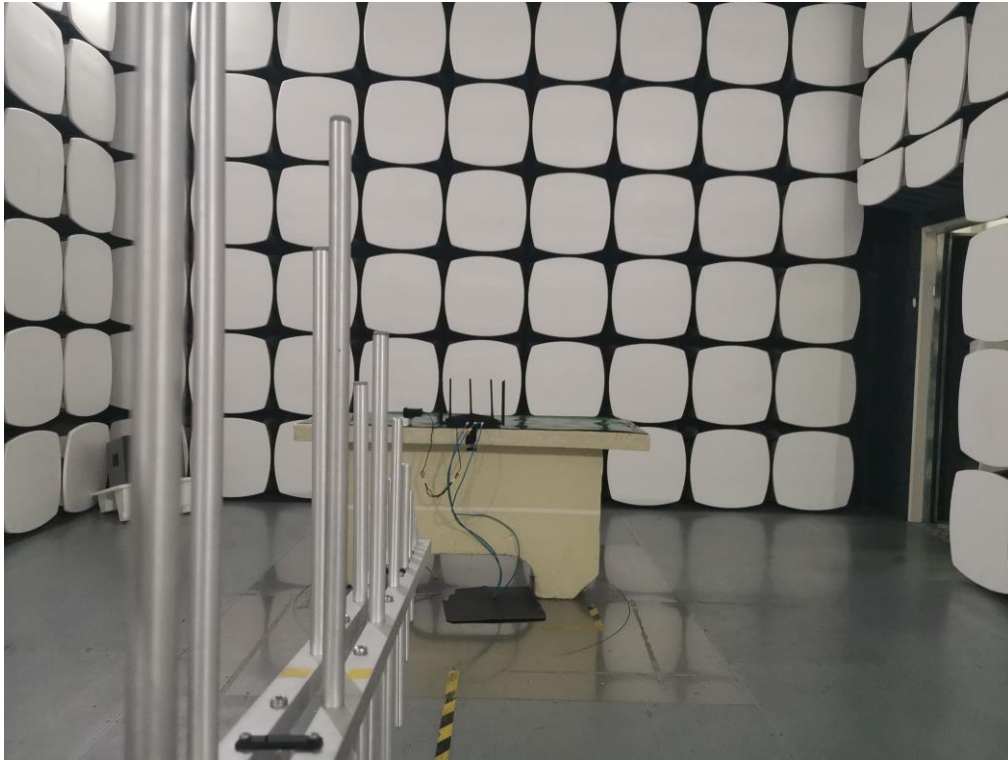
Except \* item, all calibration period of equipment list is one year.

**11. EUT TEST PHOTOS**

**AC Power Line Conducted Emissions Test Photos**



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

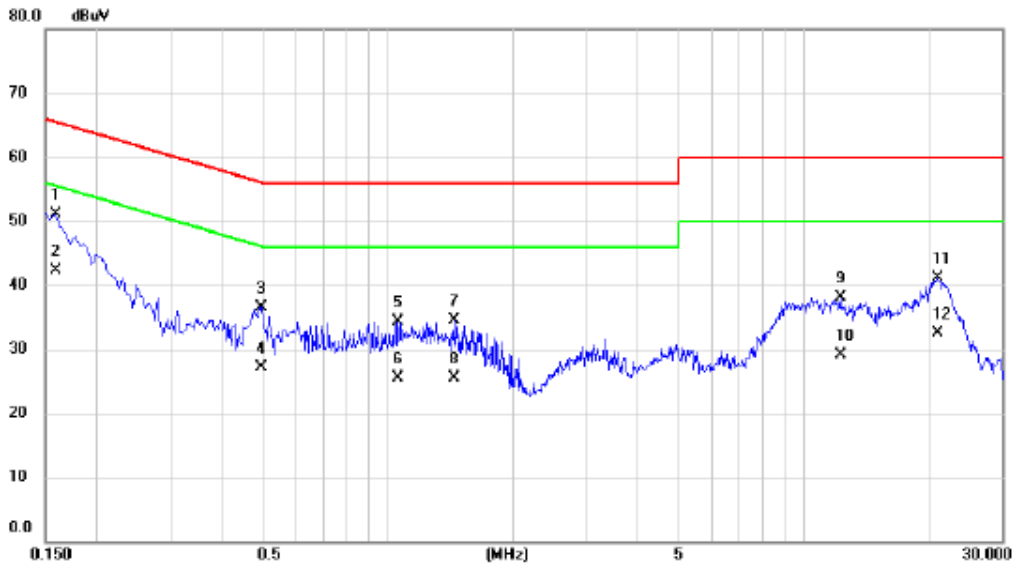


**Radiated Emissions Test Photos  
Above 1GHz**



## APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX AX(HE160) Mode Channel 15 (UNII-5)	Phase	Line
-----------	---------------------------------------	-------	------

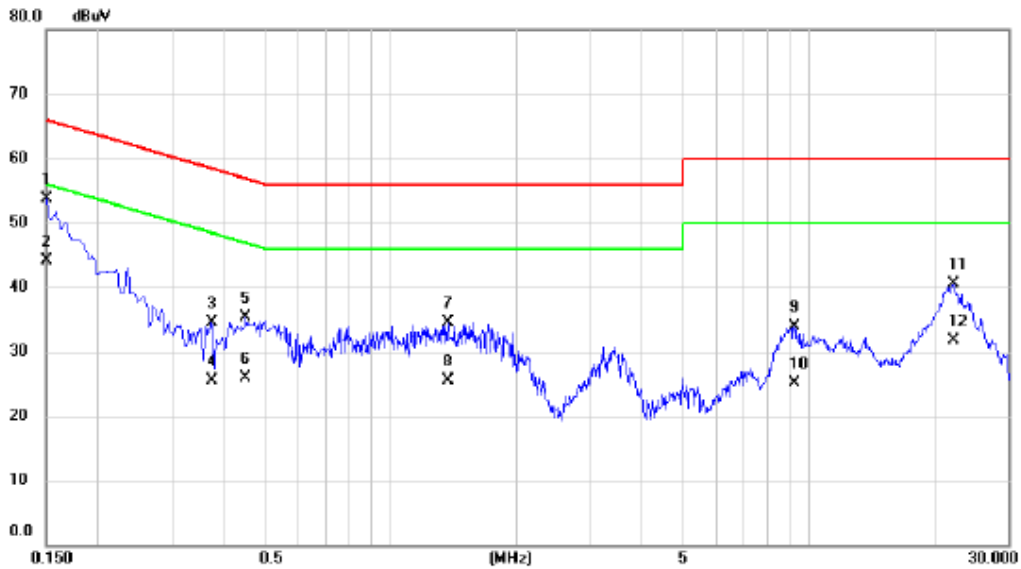


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1590	31.67	19.51	51.18	65.52	-14.34	QP	
2	*	0.1590	22.74	19.51	42.25	55.52	-13.27	AVG	
3		0.4965	16.99	19.53	36.52	56.06	-19.54	QP	
4		0.4965	7.63	19.53	27.16	46.06	-18.90	AVG	
5		1.0590	14.62	19.67	34.29	56.00	-21.71	QP	
6		1.0590	5.85	19.67	25.52	46.00	-20.48	AVG	
7		1.4415	14.68	19.79	34.47	56.00	-21.53	QP	
8		1.4415	5.65	19.79	25.44	46.00	-20.56	AVG	
9		12.2775	17.61	20.55	38.16	60.00	-21.84	QP	
10		12.2775	8.49	20.55	29.04	50.00	-20.96	AVG	
11		20.9670	20.15	20.88	41.03	60.00	-18.97	QP	
12		20.9670	11.63	20.88	32.51	50.00	-17.49	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 AX(HE160) Mode Channel 15 (UNII-5)	Phase	Neutral
-----------	---------------------------------------	-------	---------



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	33.92	19.70	53.62	66.00	-12.38	QP	
2	*	0.1500	24.50	19.70	44.20	56.00	-11.80	AVG	
3		0.3750	14.74	19.70	34.44	58.39	-23.95	QP	
4		0.3750	5.77	19.70	25.47	48.39	-22.92	AVG	
5		0.4515	15.62	19.73	35.35	56.85	-21.50	QP	
6		0.4515	6.26	19.73	25.99	46.85	-20.86	AVG	
7		1.3740	14.45	20.01	34.46	56.00	-21.54	QP	
8		1.3740	5.47	20.01	25.48	46.00	-20.52	AVG	
9		9.2400	13.48	20.47	33.95	60.00	-26.05	QP	
10		9.2400	4.57	20.47	25.04	50.00	-24.96	AVG	
11		22.2764	20.13	20.37	40.50	60.00	-19.50	QP	
12		22.2764	11.35	20.37	31.72	50.00	-18.28	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

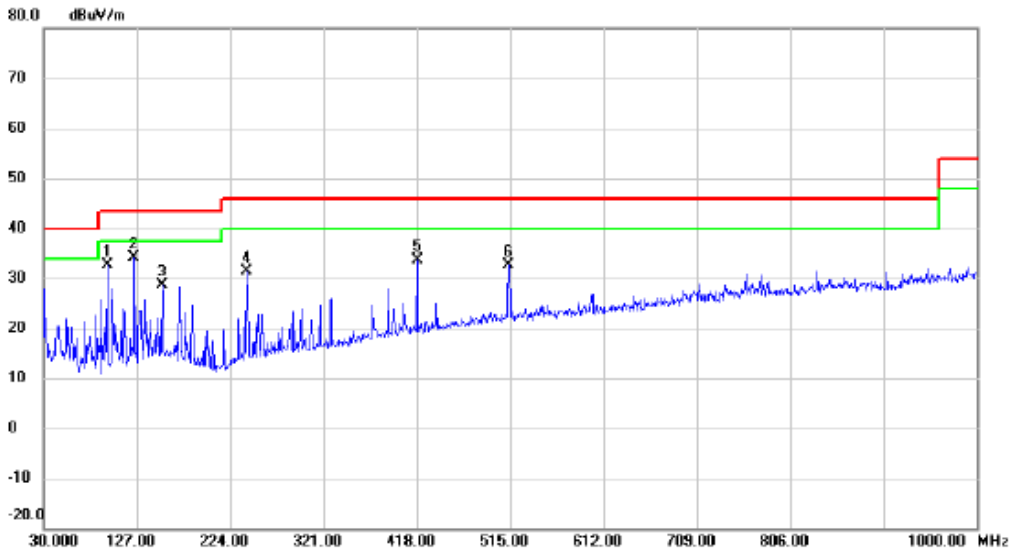
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

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 AX(HE160) Mode Channel 15 (UNII-5)	Polarization	Vertical
-----------	---------------------------------------	--------------	----------

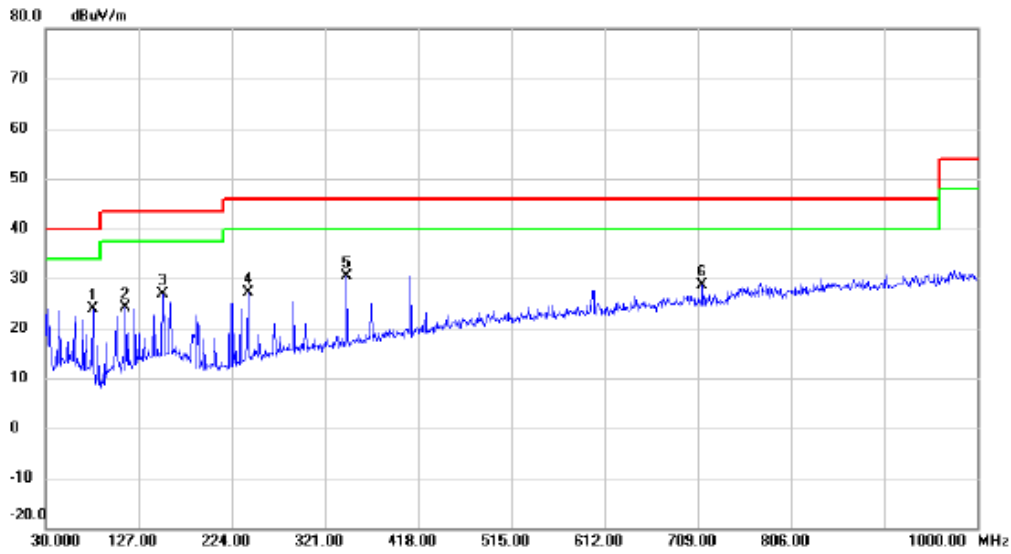


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	95.9600	16.96	15.73	32.69	43.50	-10.81	peak	
2 *	124.0900	18.22	15.95	34.17	43.50	-9.33	peak	
3	153.1900	12.39	16.34	28.73	43.50	-14.77	peak	
4	241.4600	13.44	17.95	31.39	46.00	-14.61	peak	
5	418.0000	12.25	21.33	33.58	46.00	-12.42	peak	
6	513.0600	8.91	23.68	32.59	46.00	-13.41	peak	

**REMARKS:**

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

Test Mode	TX AX(HE160) Mode Channel 15 (UNII-5)	Polarization	Horizontal
-----------	---------------------------------------	--------------	------------



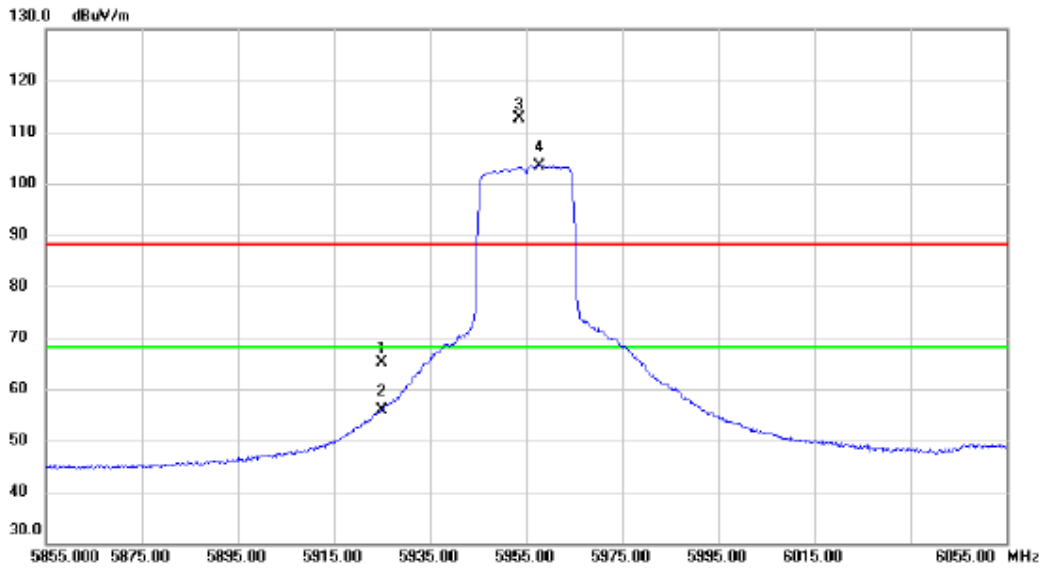
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	79.4700	10.61	13.21	23.82	40.00	-16.18	peak	
2	113.4200	10.63	13.55	24.18	43.50	-19.32	peak	
3	152.2200	12.44	14.48	26.92	43.50	-16.58	peak	
4	241.4600	9.26	17.95	27.21	46.00	-18.79	peak	
5 *	343.3100	10.05	20.39	30.44	46.00	-15.56	peak	
6	713.8500	1.58	27.04	28.62	46.00	-17.38	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	UNII-5_TX AX(HE20) Mode 5955 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

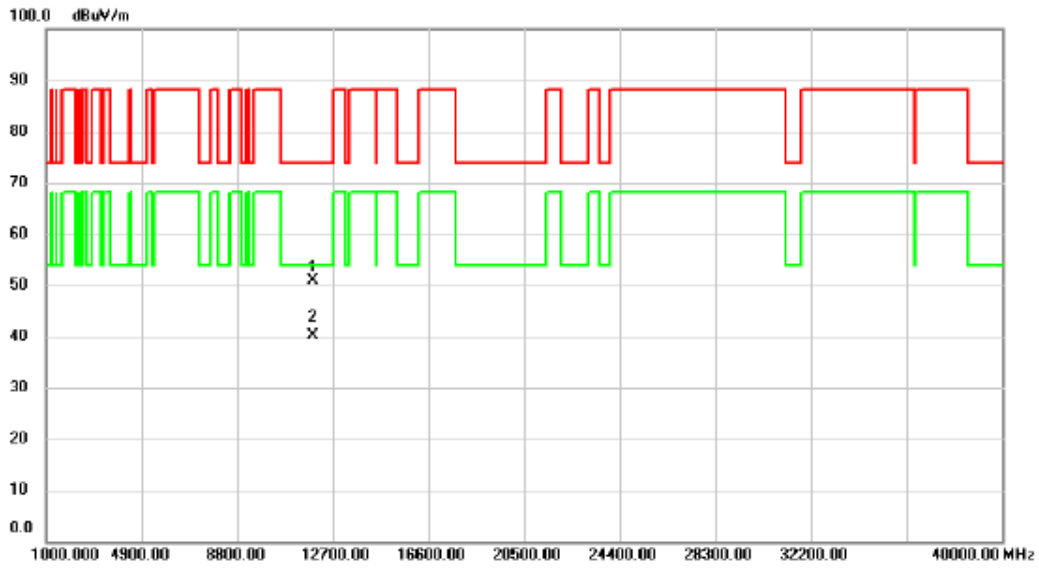


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5925.000	76.64	-11.63	65.01	88.20	-23.19	peak	
2	5925.000	67.50	-11.63	55.87	68.20	-12.33	AVG	
3 X	5953.600	124.1	-11.55	112.56	88.20	24.36	peak	No Limit
4 *	5957.800	115.0	-11.53	103.50	68.20	35.30	AVG	No Limit

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE20) Mode 5955 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

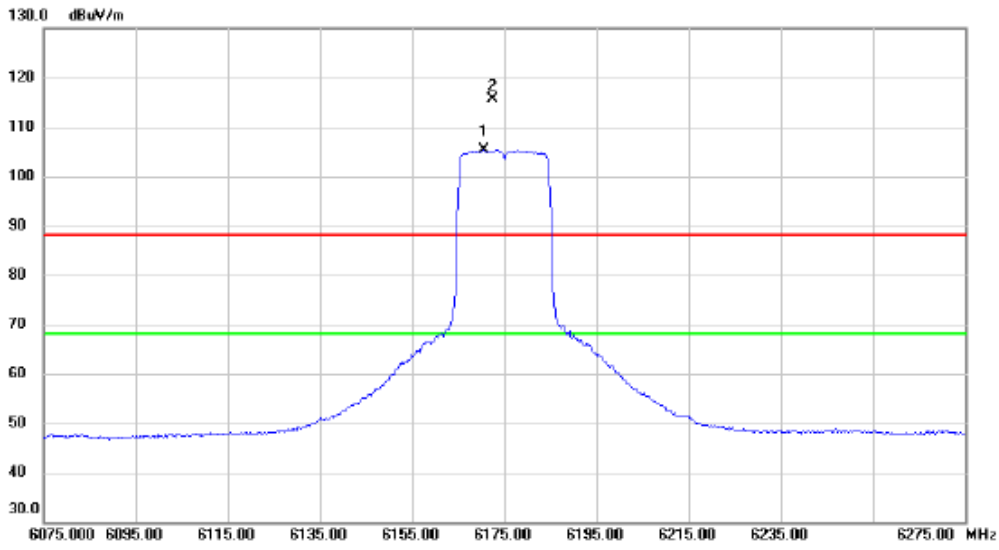


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		11907.600	51.79	-1.03	50.76	74.00	-23.24	peak	
2	*	11915.450	41.05	-1.04	40.01	54.00	-13.99	AVG	

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE20) Mode 6175 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

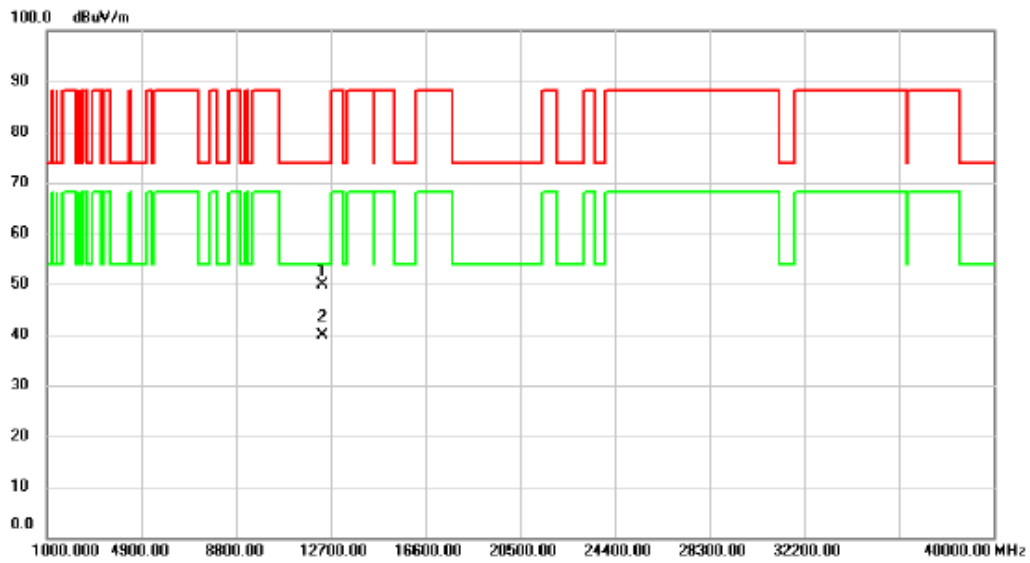


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	6170.600	116.3	-11.05	105.32	68.20	37.12	AVG	No Limit
2	X	6172.400	126.7	-11.05	115.73	88.20	27.53	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE20) Mode 6175 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------



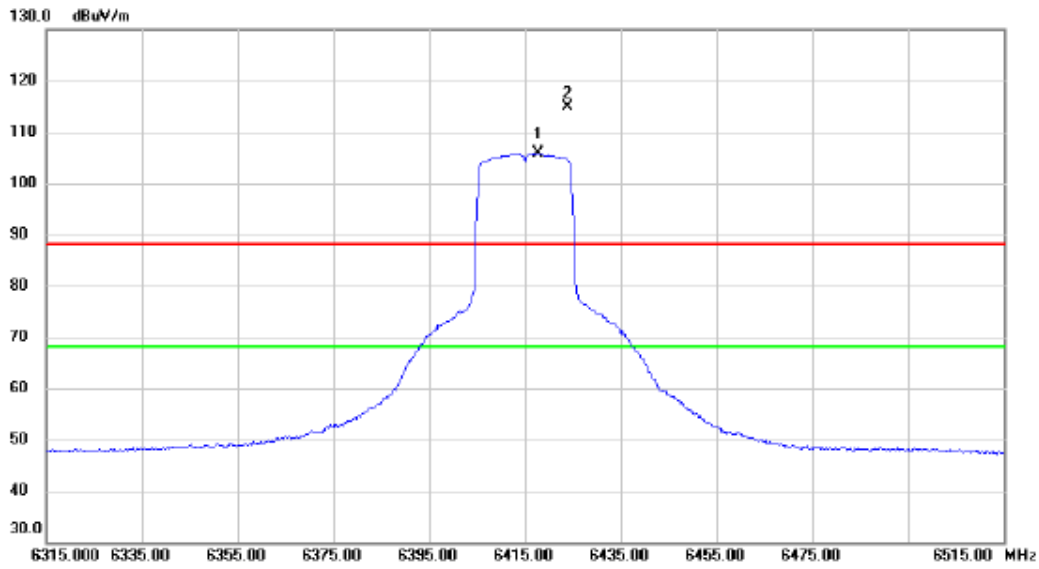
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		12340.060	50.92	-1.01	49.91	74.00	-24.09	peak	
2	*	12355.040	40.91	-1.01	39.90	54.00	-14.10	AVG	

**REMARKS:**

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



Test Mode	UNII-5_TX AX(HE20) Mode 6415 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

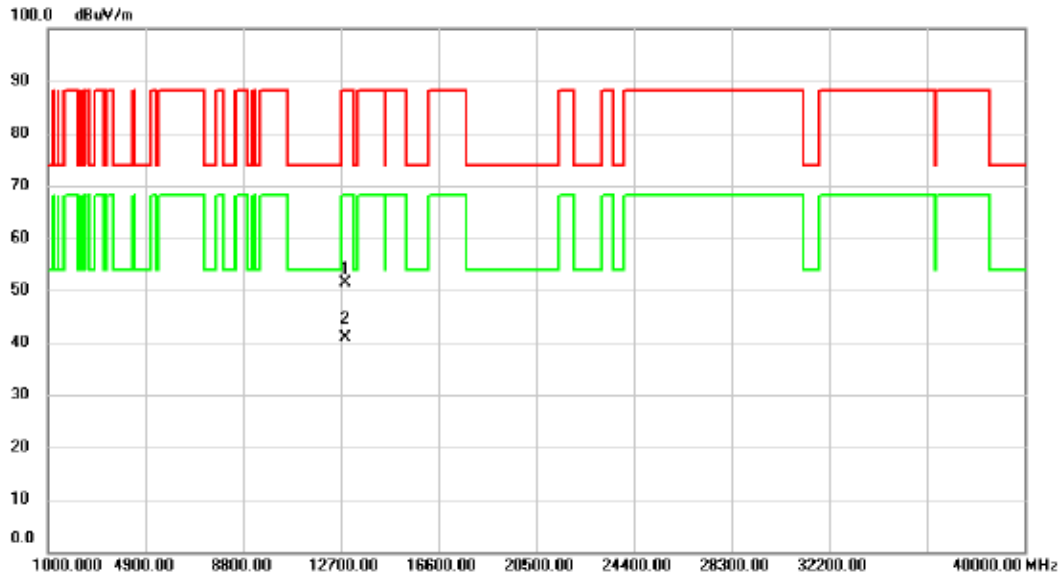


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	6417.800	116.5	-10.53	105.97	68.20	37.77	AVG	No Limit
2	X	6424.000	125.4	-10.51	114.96	88.20	26.76	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE20) Mode 6415 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

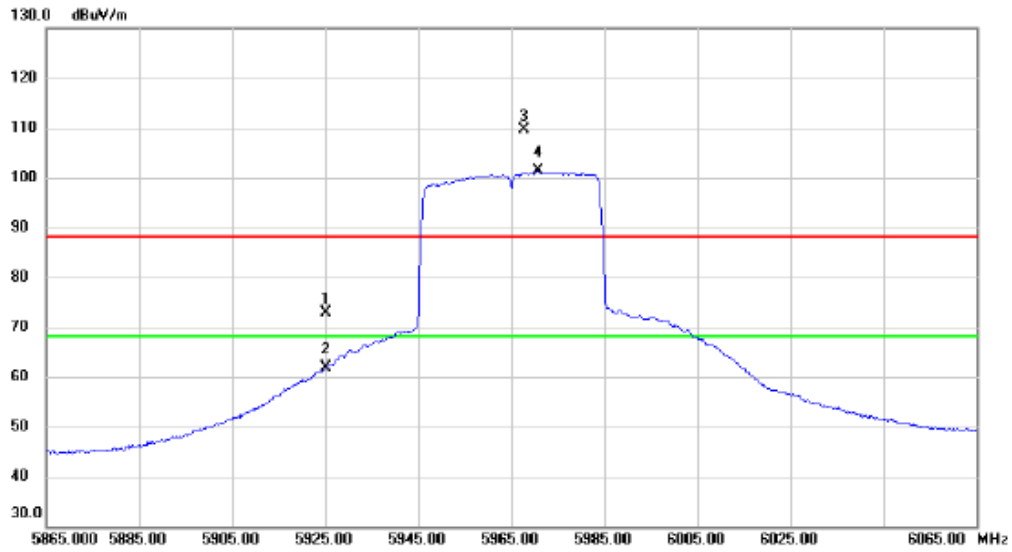


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		12860.080	51.42	-0.09	51.33	88.20	-36.87	peak	
2	*	12875.420	40.85	-0.04	40.81	68.20	-27.39	AVG	

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE40) Mode 5965 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

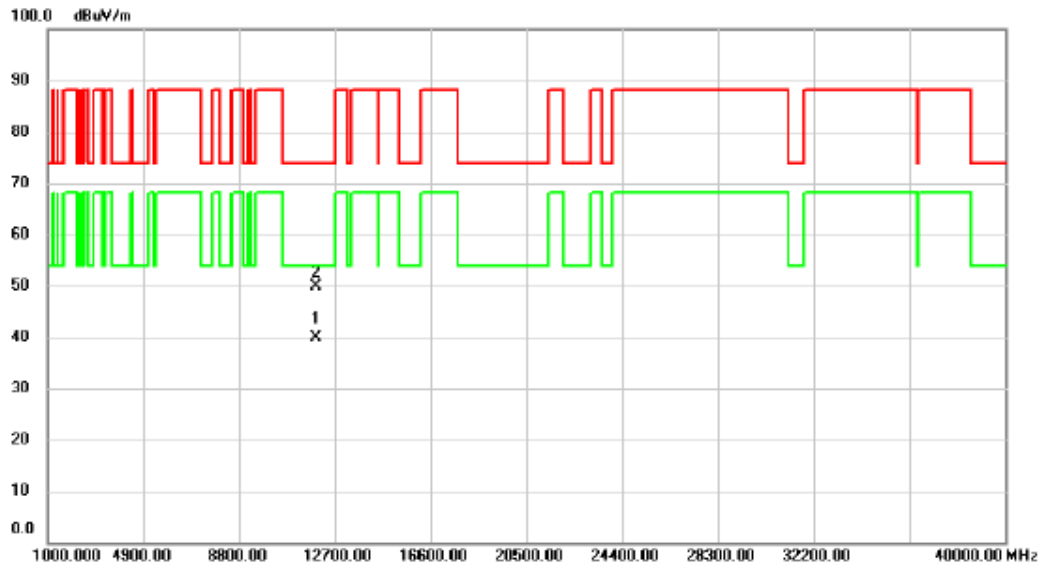


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5925.000	84.53	-11.63	72.90	88.20	-15.30	peak	
2		5925.000	73.40	-11.63	61.77	68.20	-6.43	AVG	
3	X	5967.800	121.0	-11.51	109.54	88.20	21.34	peak	No Limit
4	*	5970.600	112.8	-11.51	101.36	68.20	33.16	AVG	No Limit

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE40) Mode 5965 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

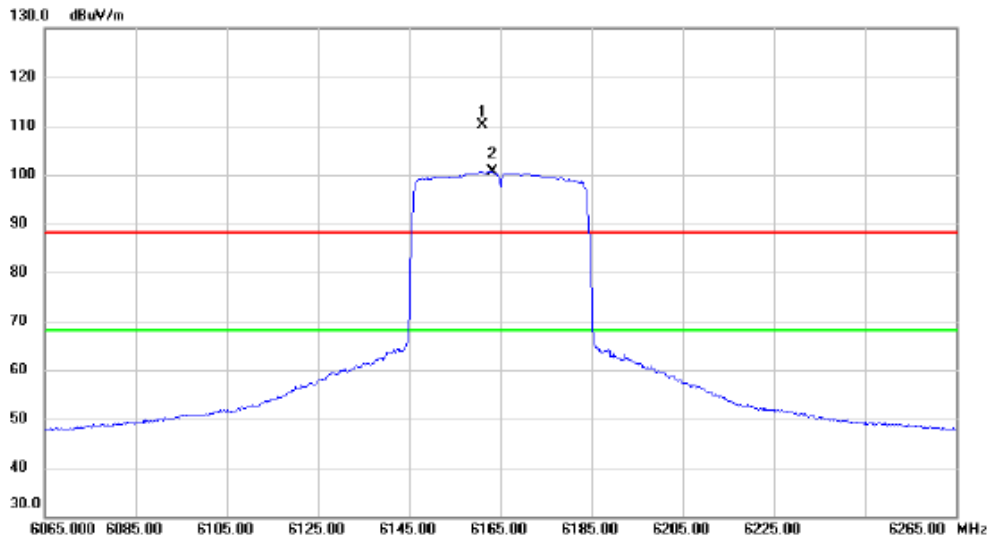


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11923.120	40.83	-1.05	39.78	54.00	-14.22	AVG	
2	11930.600	51.05	-1.05	50.00	74.00	-24.00	peak	

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE40) Mode 6165 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

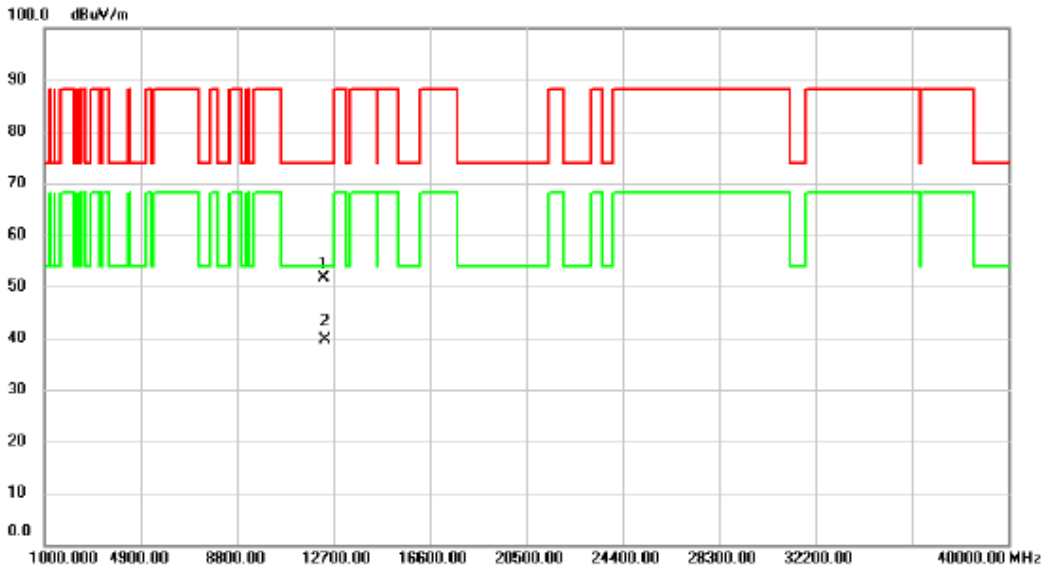


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	X	6161.200	121.1	-11.07	110.09	88.20	21.89	peak	No Limit
2	*	6163.200	111.7	-11.07	100.63	68.20	32.43	AVG	No Limit

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE40) Mode 6165 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

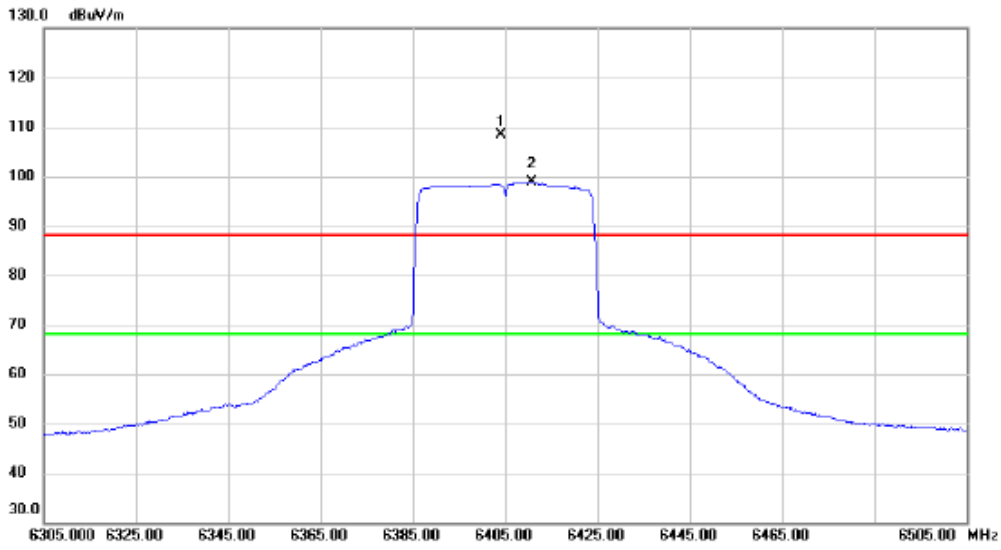


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		12328.820	52.72	-1.01	51.71	74.00	-22.29	peak	
2	*	12338.800	40.75	-1.01	39.74	54.00	-14.26	AVG	

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE40) Mode 6405 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

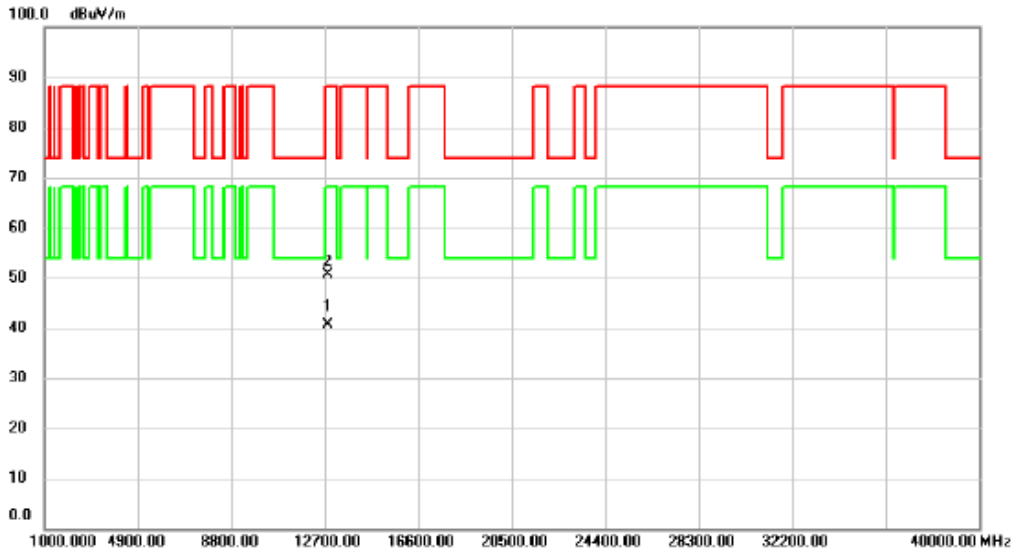


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	X	6404.000	119.0	-10.56	108.47	88.20	20.27	peak	No Limit
2	*	6410.600	109.5	-10.55	98.97	68.20	30.77	AVG	No Limit

REMARKS:

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

Test Mode	UNII-5_TX AX(HE40) Mode 6405 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------



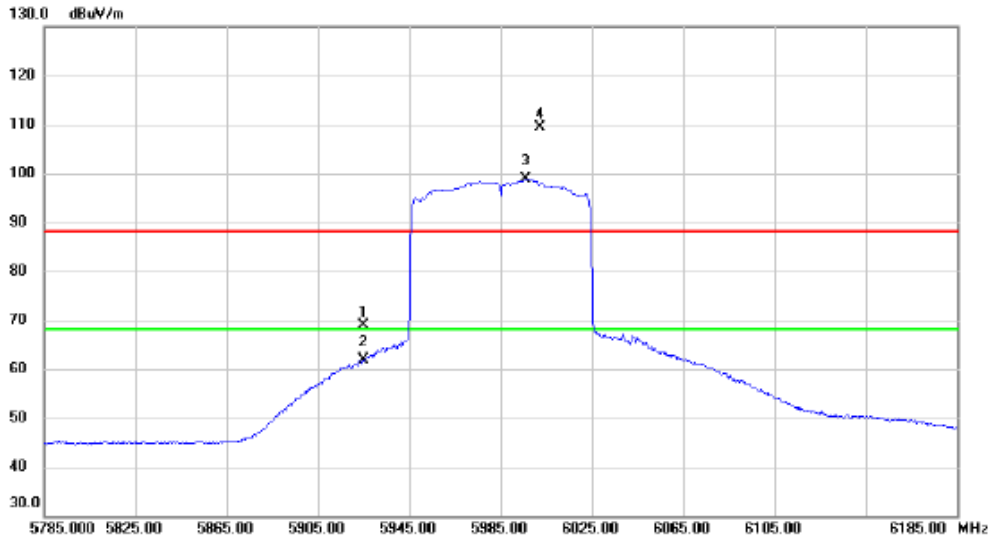
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	12814.120	40.83	-0.20	40.63	68.20	-27.57	AVG	
2	12815.820	50.88	-0.20	50.68	88.20	-37.52	peak	

REMARKS:

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



Test Mode	UNII-5_TX AX(HE80) Mode 5985 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

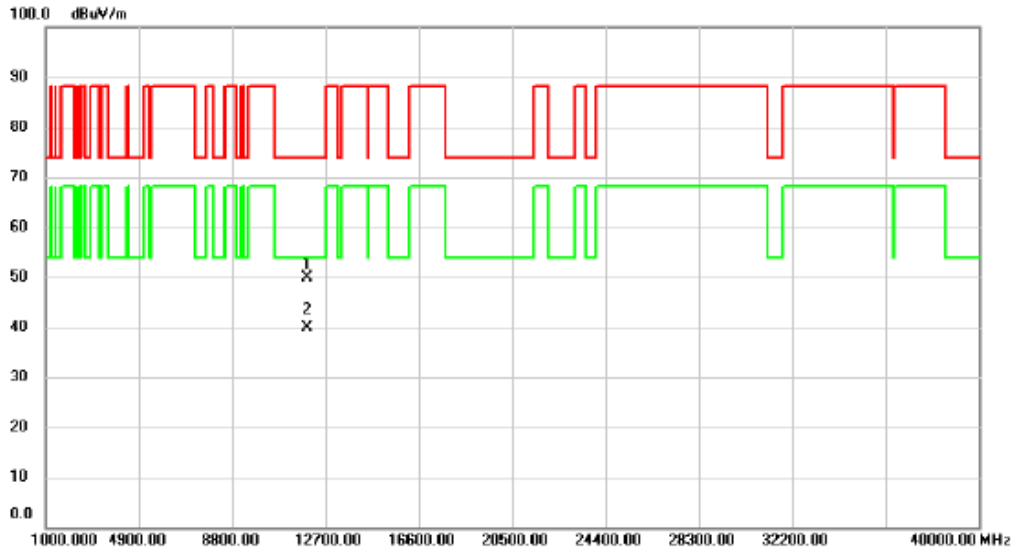


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5925.000	80.47	-11.63	68.84	88.20	-19.36	peak	
2		5925.000	73.46	-11.63	61.83	68.20	-6.37	AVG	
3	*	5995.800	110.3	-11.44	98.86	68.20	30.66	AVG	No Limit
4	X	6002.200	120.6	-11.41	109.26	88.20	21.06	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE80) Mode 5985 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

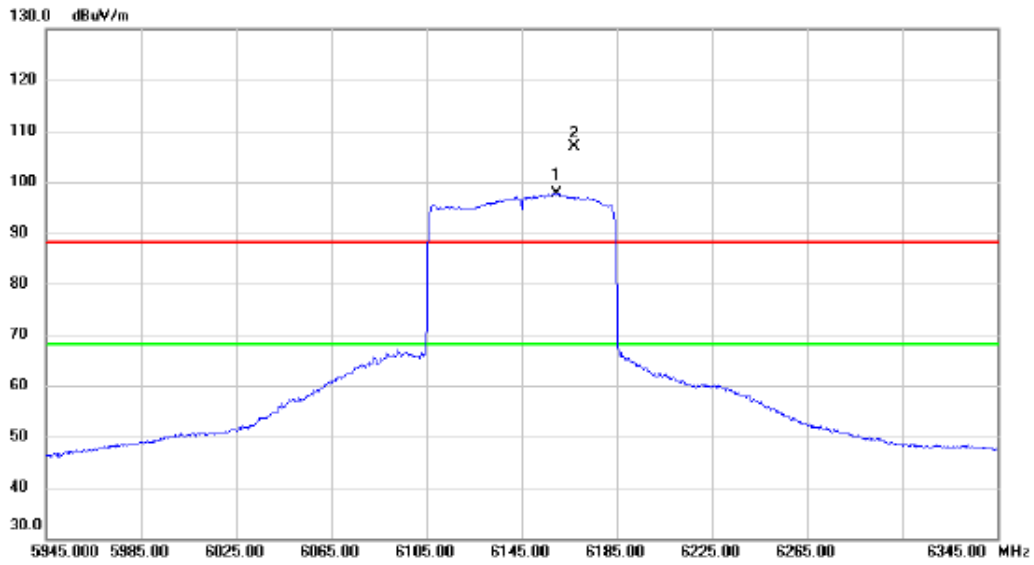


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11970.348	50.95	-1.08	49.87	74.00	-24.13	peak	
2 *		11970.520	40.91	-1.08	39.83	54.00	-14.17	AVG	

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE80) Mode 6145 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

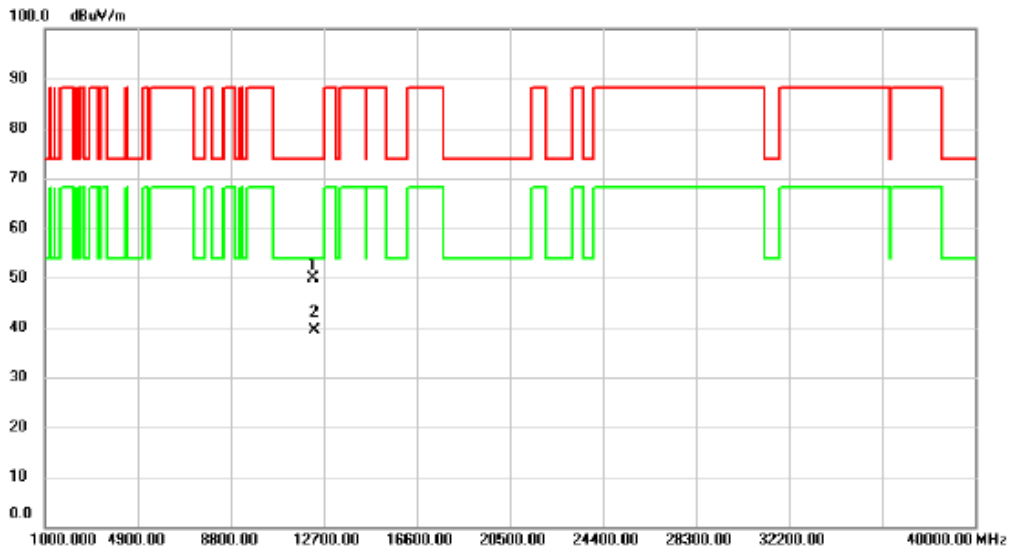


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	6159.800	108.7	-11.08	97.70	68.20	29.50	AVG	No Limit
2	X	6167.000	118.0	-11.07	106.94	88.20	18.74	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE80) Mode 6145 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

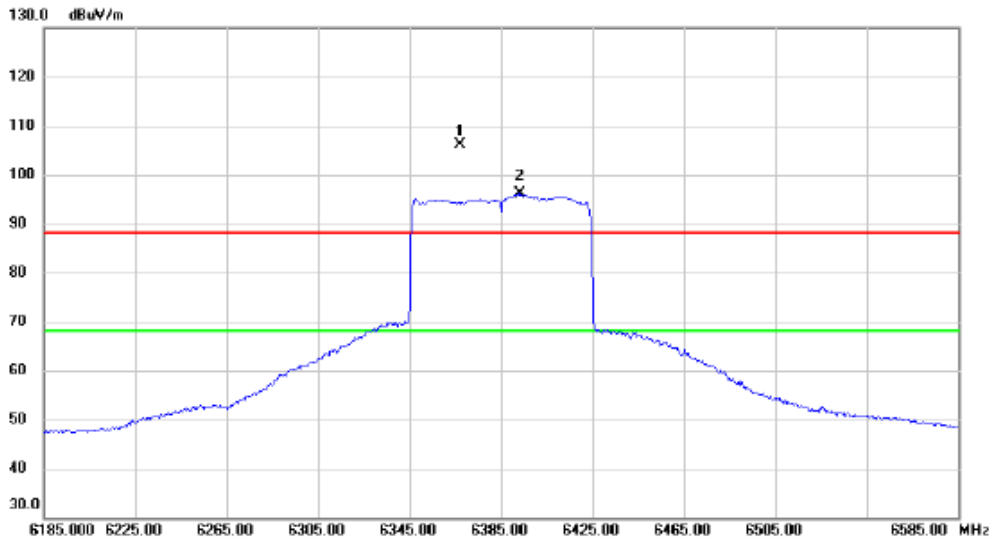


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	12282.820	50.90	-1.03	49.87	74.00	-24.13	peak	
2 *	12284.840	40.52	-1.03	39.49	54.00	-14.51	AVG	

REMARKS:

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

Test Mode	UNII-5_TX AX(HE80) Mode 6385 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

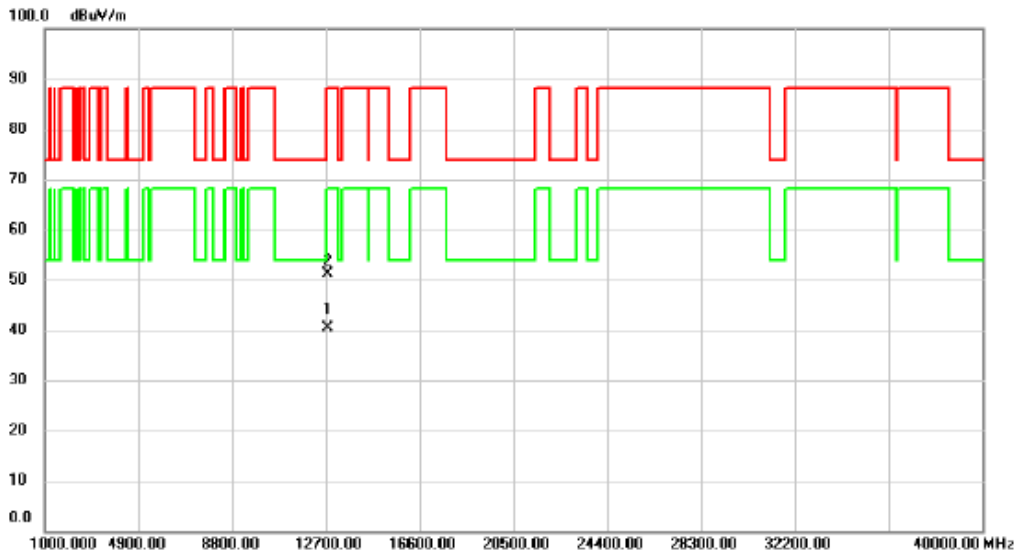


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	6367.400	116.7	-10.63	106.13	88.20	17.93	peak	No Limit
2	*	6393.000	106.6	-10.58	96.07	68.20	27.87	AVG	No Limit

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE80) Mode 6385 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

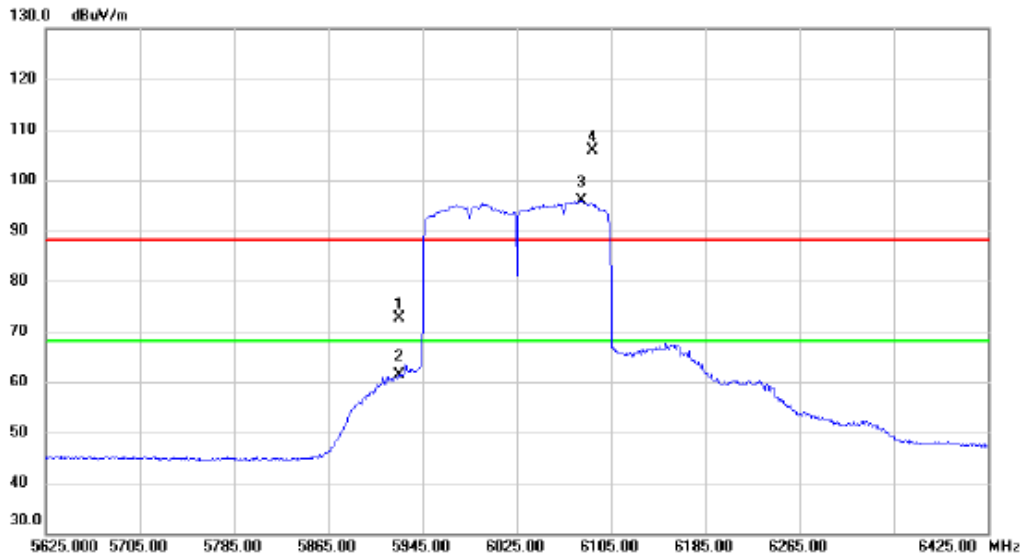


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	12763.320	40.80	-0.32	40.48	68.20	-27.72	AVG	
2		12765.420	51.46	-0.32	51.14	88.20	-37.06	peak	

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE160) Mode 6025 MHz	Polarization	Vertical
-----------	-----------------------------------	--------------	----------

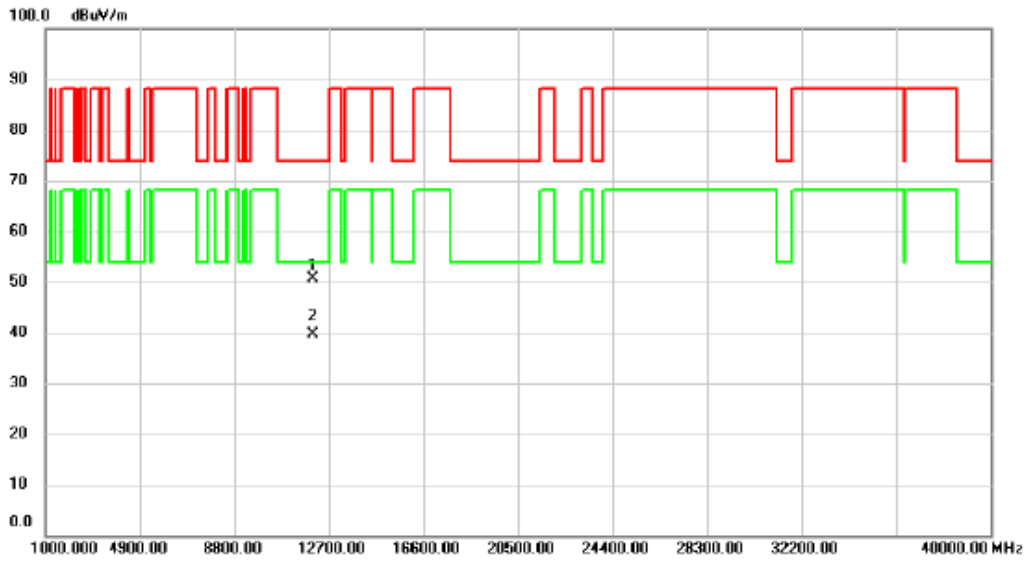


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5925.000	84.14	-11.63	72.51	88.20	-15.69	peak	
2		5925.000	72.93	-11.63	61.30	68.20	-6.90	AVG	
3	*	6080.200	107.1	-11.25	95.89	68.20	27.69	AVG	No Limit
4	X	6089.800	116.9	-11.23	105.76	88.20	17.56	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE160) Mode 6025 MHz	Polarization	Horizontal
-----------	-----------------------------------	--------------	------------



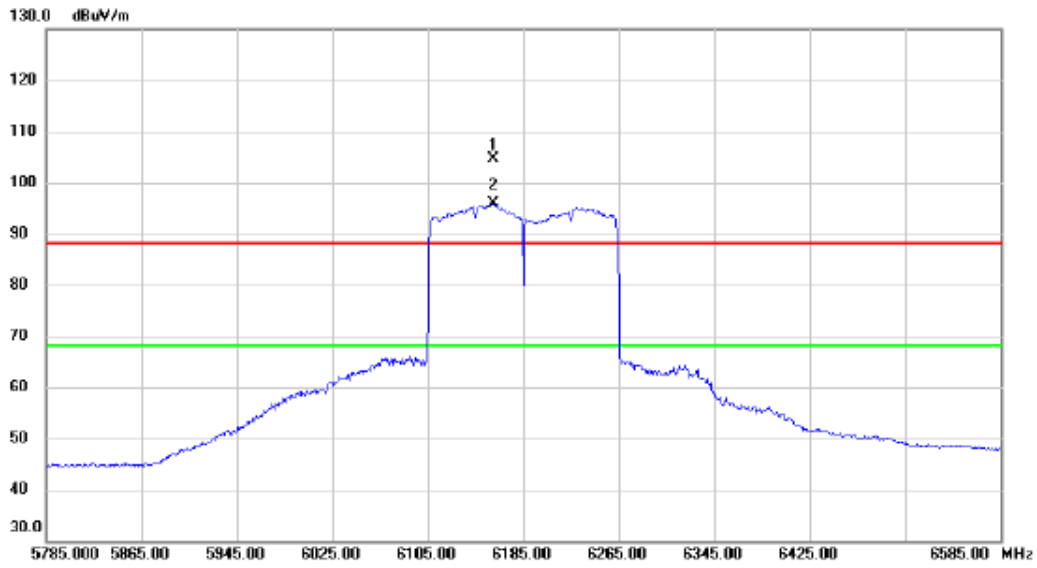
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	12049.220	51.75	-1.08	50.67	74.00	-23.33	peak	
2 *	12050.060	40.63	-1.08	39.55	54.00	-14.45	AVG	

**REMARKS:**

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



Test Mode	UNII-5_TX AX(HE160) Mode 6185 MHz	Polarization	Vertical
-----------	-----------------------------------	--------------	----------

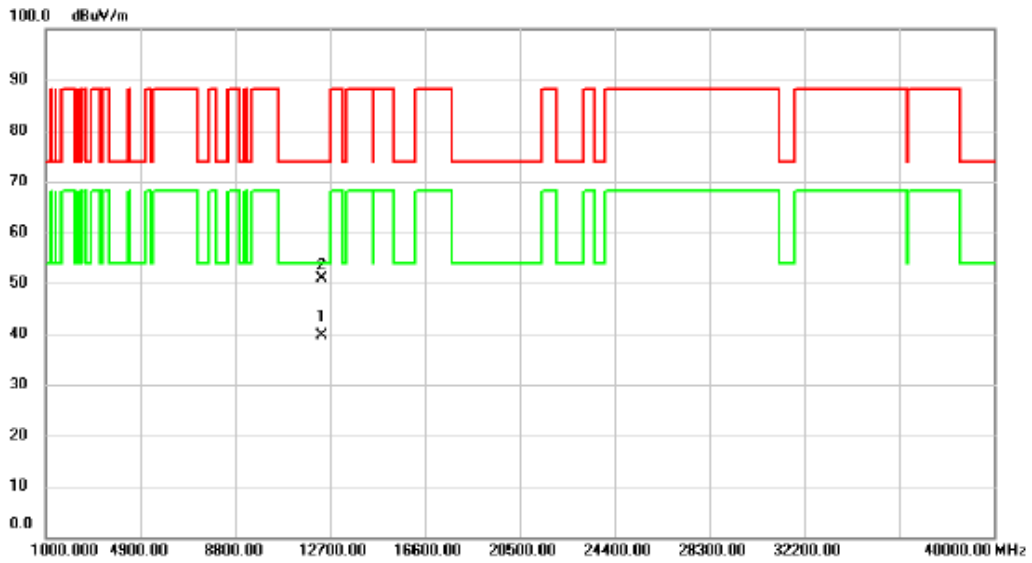


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	6160.200	115.8	-11.08	104.73	88.20	16.53	peak	No Limit
2	*	6160.200	106.9	-11.08	95.91	68.20	27.71	AVG	No Limit

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE160) Mode 6185 MHz	Polarization	Horizontal
-----------	-----------------------------------	--------------	------------

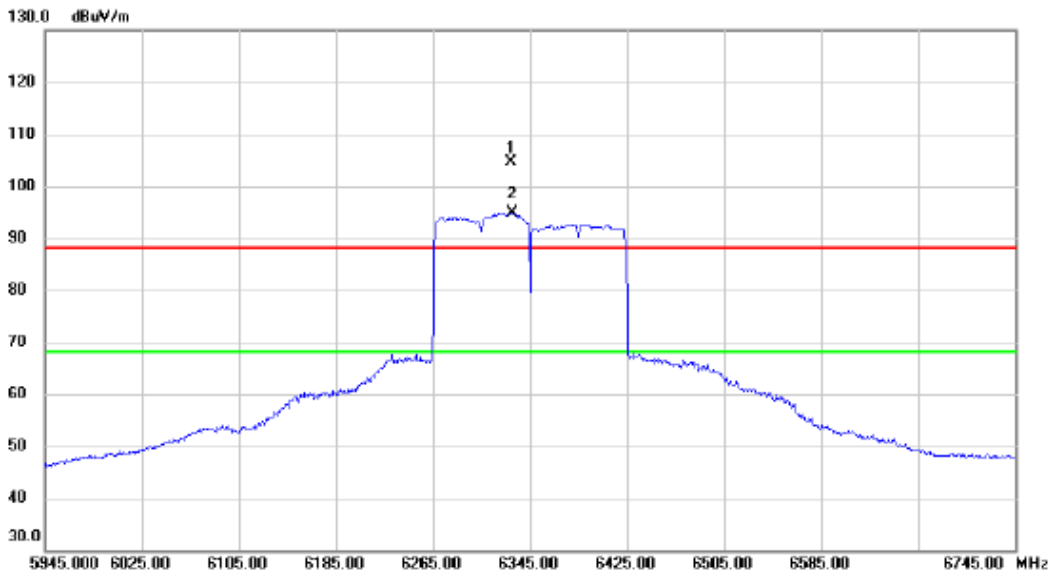


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	12367.780	40.66	-1.00	39.66	54.00	-14.34	AVG	
2		12372.265	51.94	-1.01	50.93	74.00	-23.07	peak	

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE160) Mode 6345 MHz	Polarization	Vertical
-----------	-----------------------------------	--------------	----------

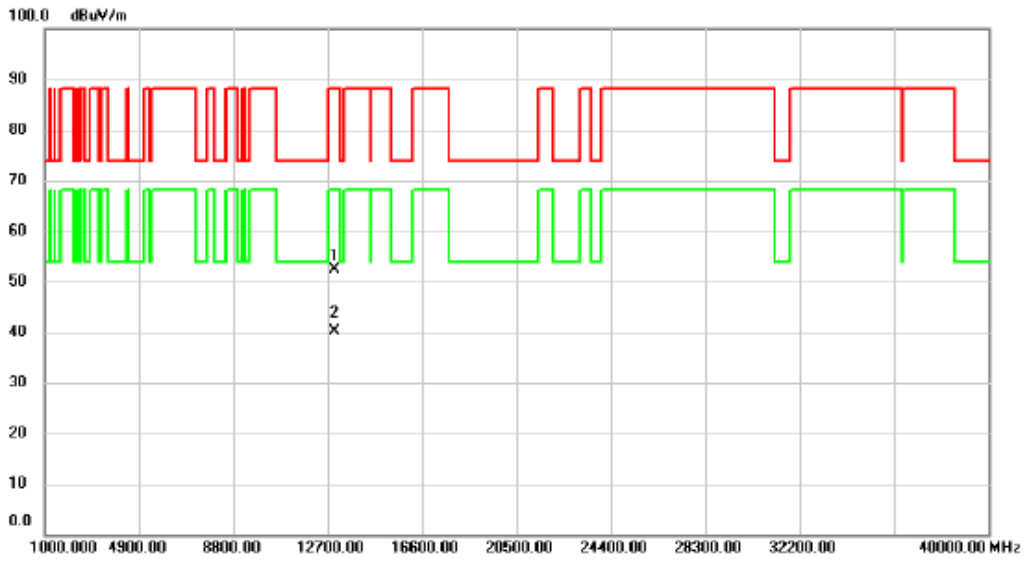


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	X	6329.000	115.4	-10.72	104.68	88.20	16.48	peak	No Limit
2	*	6330.600	105.7	-10.71	94.99	68.20	26.79	AVG	No Limit

**REMARKS:**

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

Test Mode	UNII-5_TX AX(HE160) Mode 6345 MHz	Polarization	Horizontal
-----------	-----------------------------------	--------------	------------

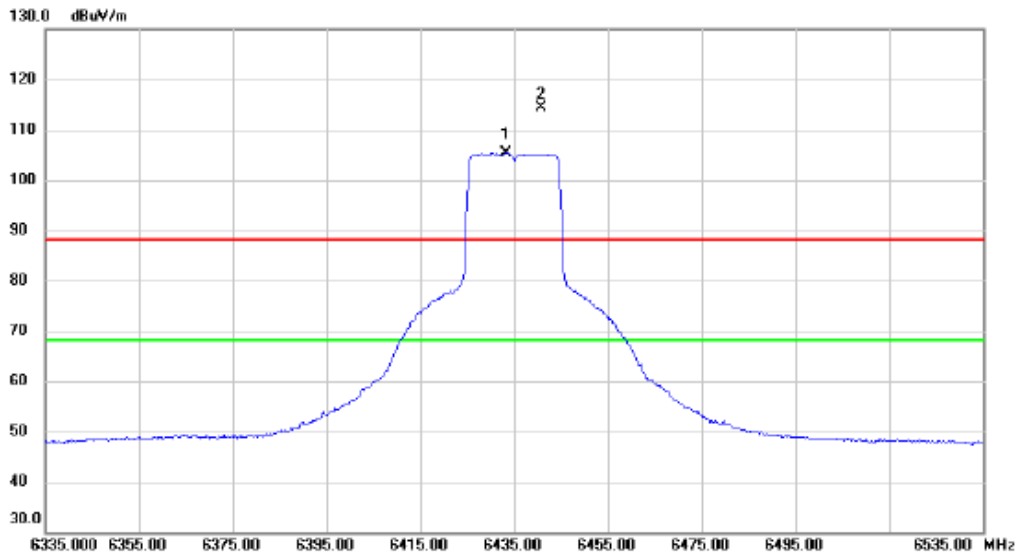


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		13010.000	52.08	0.27	52.35	88.20	-35.85	peak	
2	*	13010.000	39.88	0.27	40.15	68.20	-28.05	AVG	

**REMARKS:**

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

Test Mode	UNII-6_TX AX(HE20) Mode 6435 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

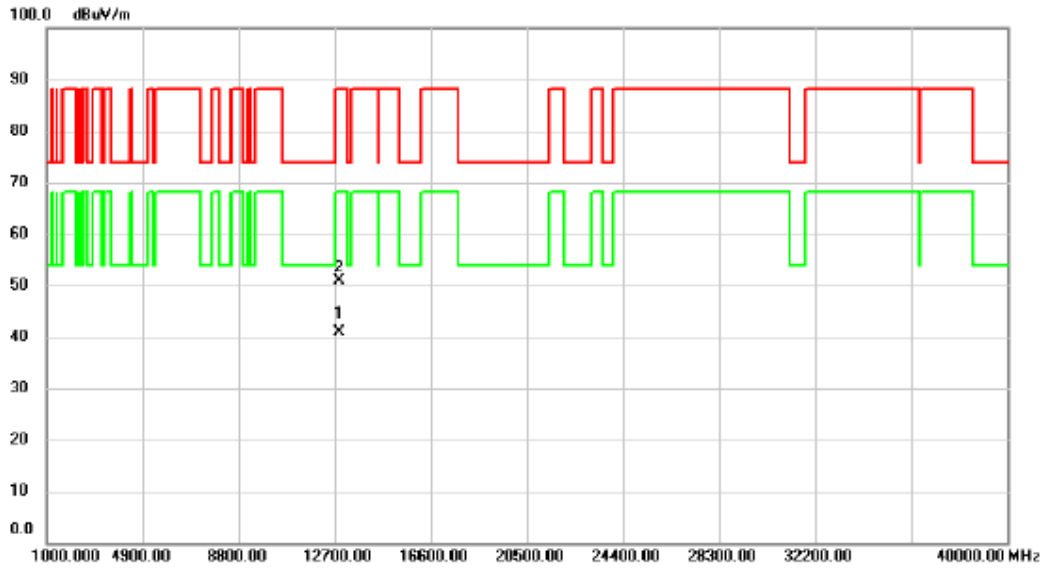


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	6433.400	115.8	-10.49	105.38	68.20	37.18	AVG	No Limit
2	X	6440.800	124.9	-10.48	114.42	88.20	26.22	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-6_TX AX(HE20) Mode 6435 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

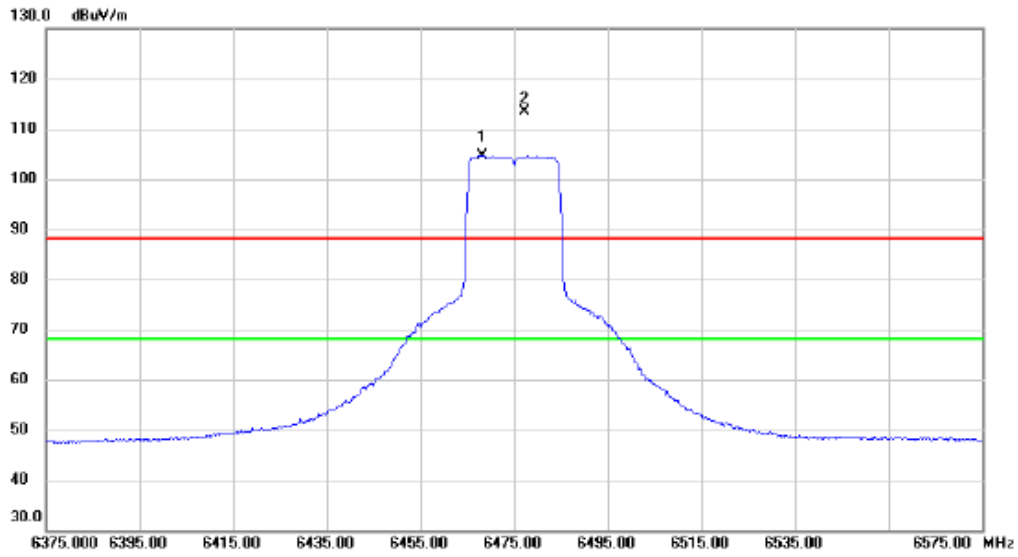


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	12860.800	40.88	-0.08	40.80	68.20	-27.40	AVG	
2		12878.600	50.92	-0.04	50.88	88.20	-37.32	peak	

**REMARKS:**

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

Test Mode	UNII-6_TX AX(HE20) Mode 6475 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

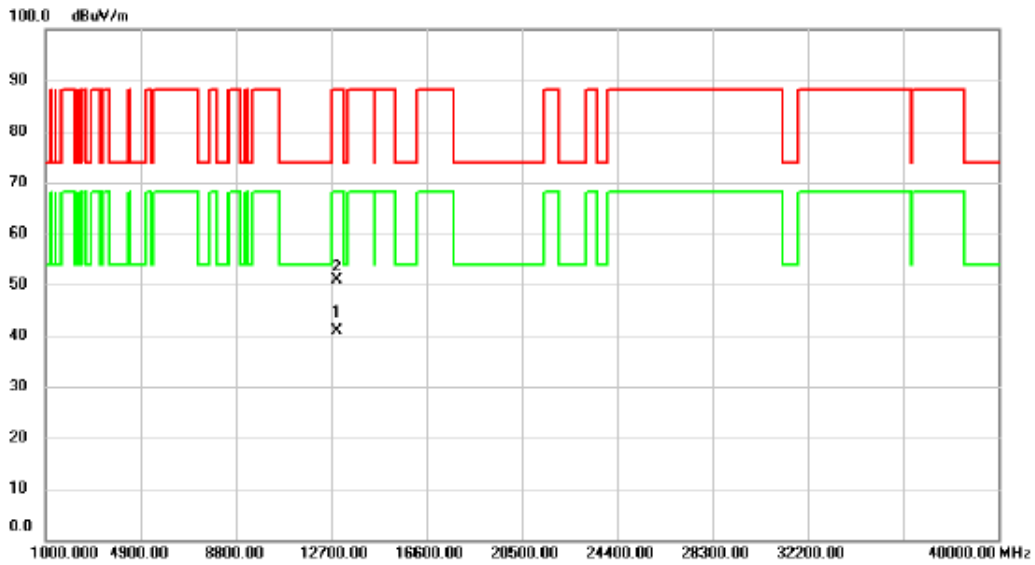


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	6468.200	115.0	-10.42	104.64	68.20	36.44	AVG	No Limit
2	X	6477.400	123.8	-10.40	113.47	88.20	25.27	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-6_TX AX(HE20) Mode 6475 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------



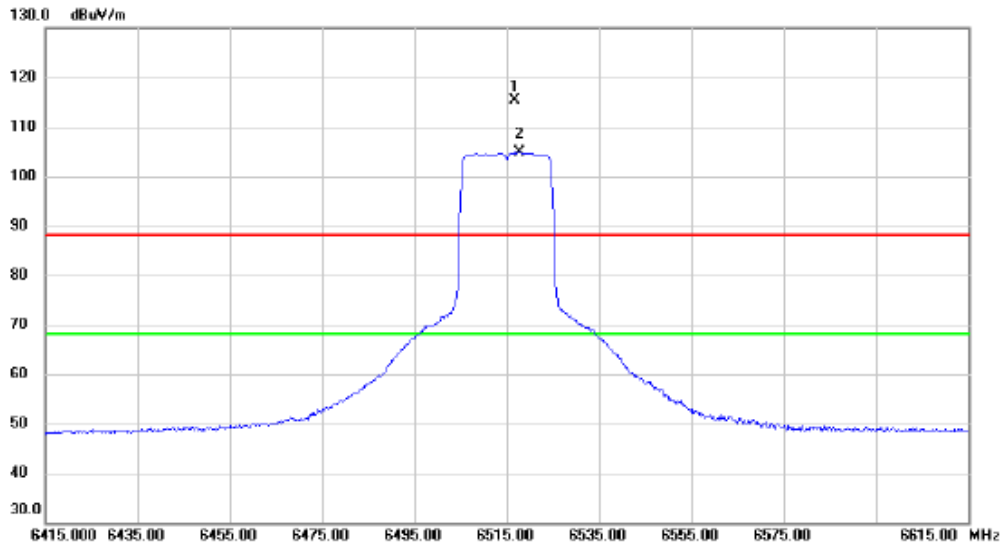
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	12953.100	40.71	0.14	40.85	68.20	-27.35	AVG	
2		12953.620	50.76	0.15	50.91	88.20	-37.29	peak	

**REMARKS:**

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



Test Mode	UNII-6_TX AX(HE20) Mode 6515 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

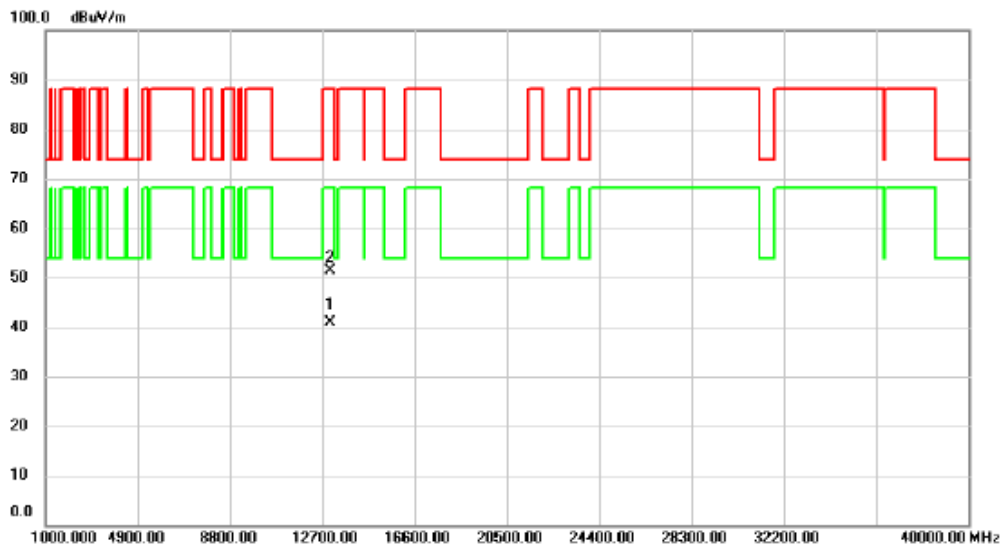


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	6516.800	125.6	-10.32	115.33	88.20	27.13	peak	No Limit
2	*	6517.800	115.2	-10.32	104.94	68.20	36.74	AVG	No Limit

**REMARKS:**

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

Test Mode	UNII-6_TX AX(HE20) Mode 6515 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

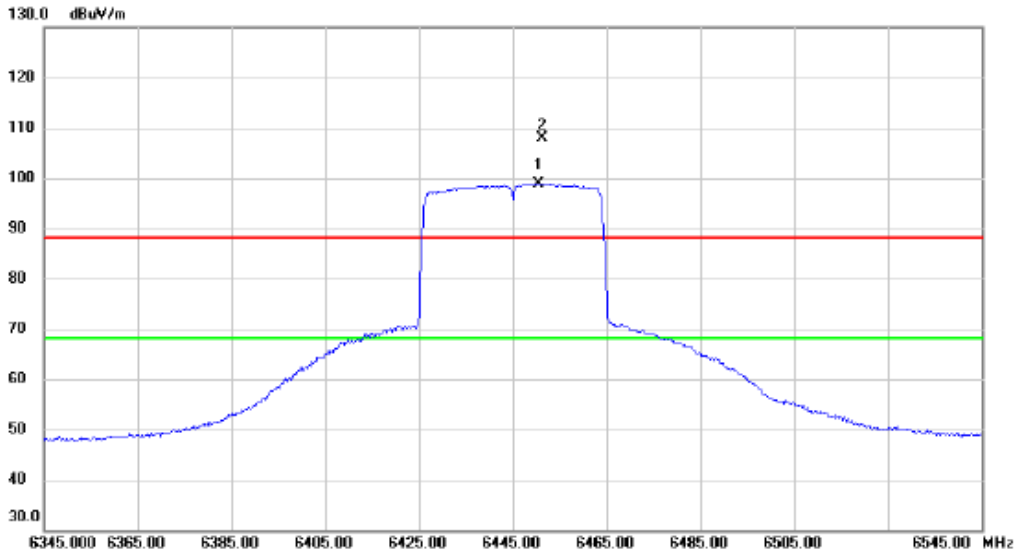


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	13023.260	40.57	0.28	40.85	68.20	-27.35	AVG	
2	13023.580	51.01	0.28	51.29	88.20	-36.91	peak	

**REMARKS:**

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

Test Mode	UNII-6_TX AX(HE40) Mode 6445 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

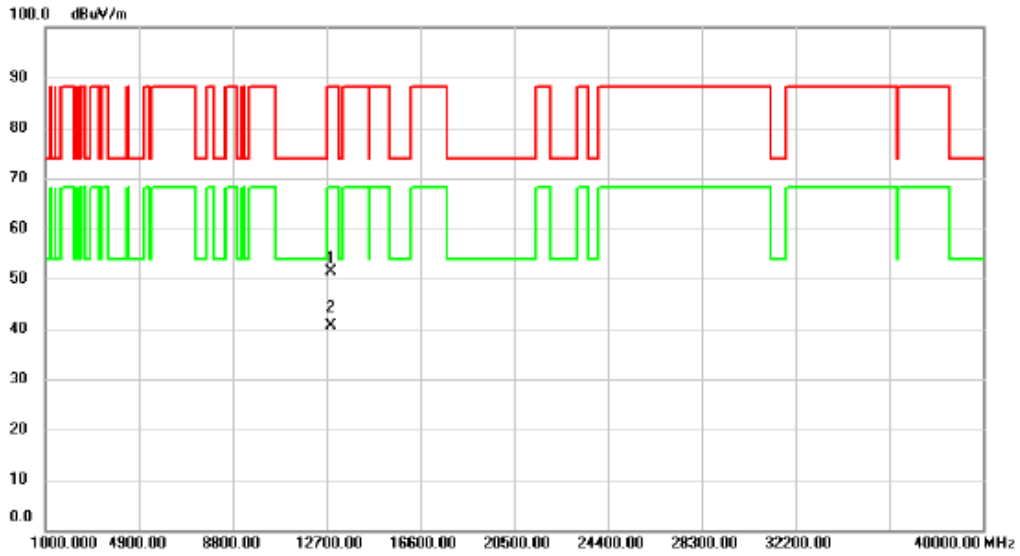


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	6450.400	109.4	-10.46	98.95	68.20	30.75	AVG	No Limit
2	X	6451.200	118.3	-10.46	107.89	88.20	19.69	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-6_TX AX(HE40) Mode 6445 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

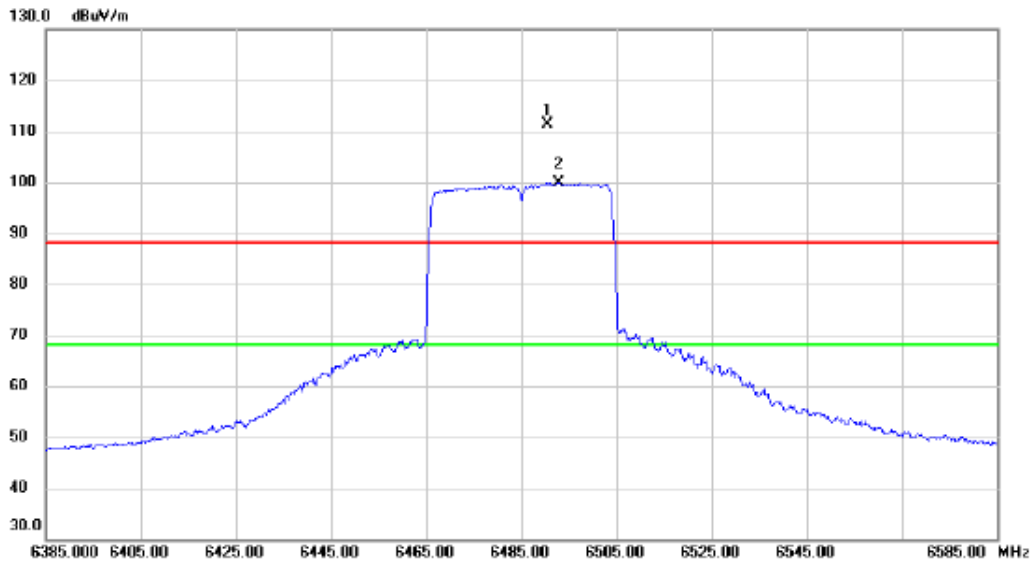


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	12889.000	51.45	-0.02	51.43	88.20	-36.77	peak	
2 *	12892.260	40.67	-0.01	40.66	68.20	-27.54	AVG	

**REMARKS:**

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

Test Mode	UNII-6_TX AX(HE40) Mode 6485 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

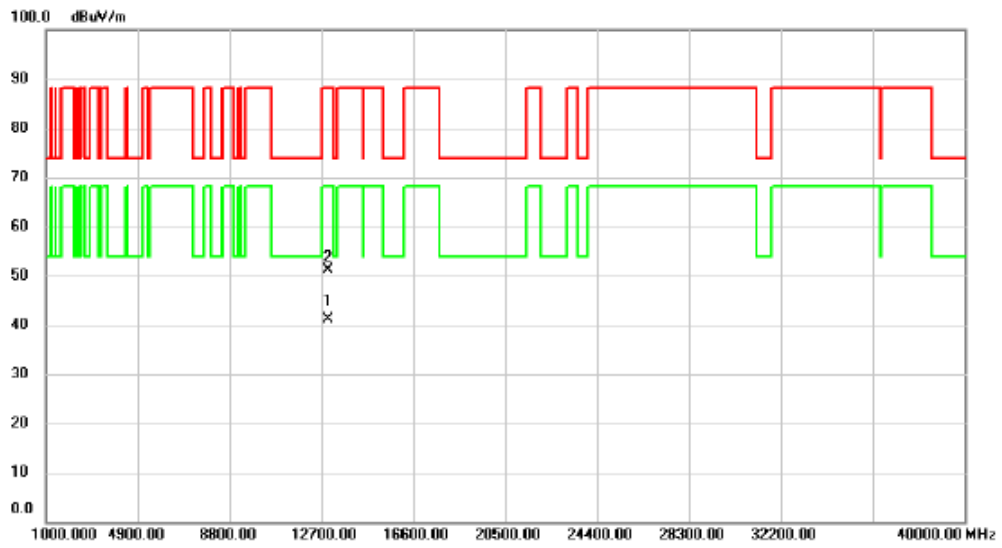


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	6490.400	121.7	-10.37	111.40	88.20	23.20	peak	No Limit
2	*	6492.800	110.2	-10.37	99.89	68.20	31.69	AVG	No Limit

**REMARKS:**

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

Test Mode	UNII-6_TX AX(HE40) Mode 6485 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

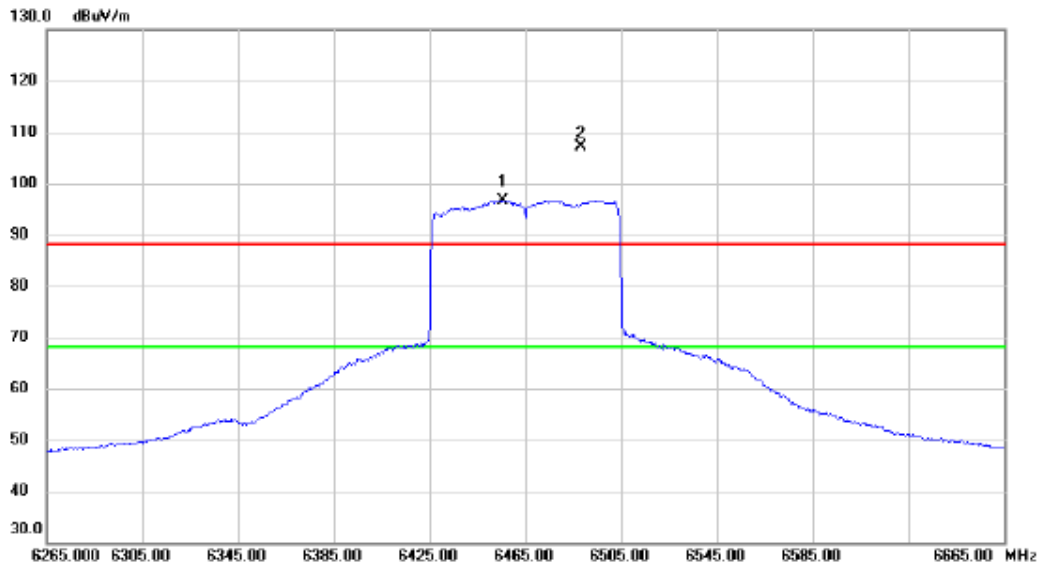


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	12972.360	40.88	0.20	41.08	68.20	-27.12	AVG	
2	12975.520	51.00	0.21	51.21	88.20	-36.99	peak	

**REMARKS:**

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

Test Mode	UNII-6_TX AX(HE80) Mode 6465 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

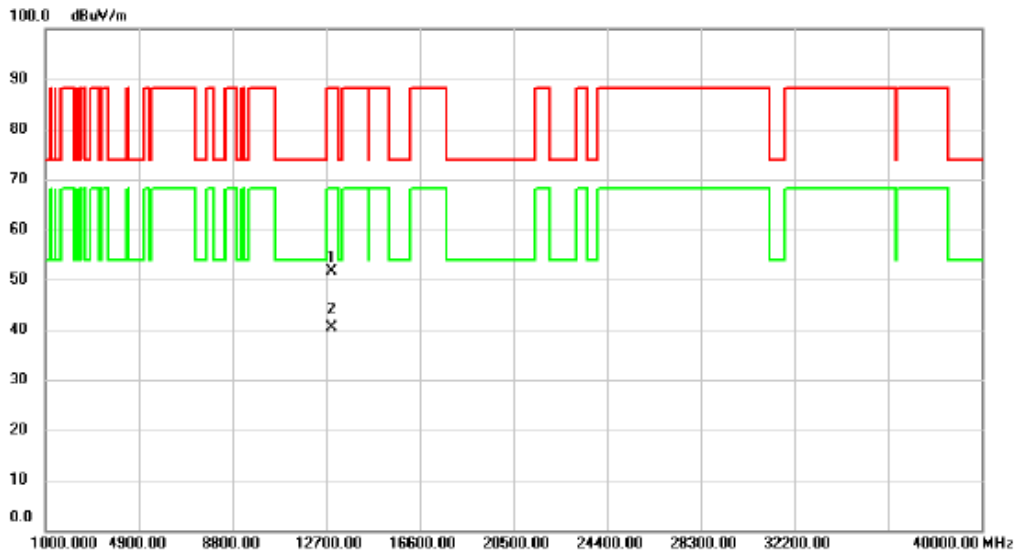


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	6455.800	107.0	-10.45	96.60	68.20	28.40	AVG	No Limit
2	X	6488.200	117.6	-10.38	107.22	88.20	19.02	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-6_TX AX(HE80) Mode 6465 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------



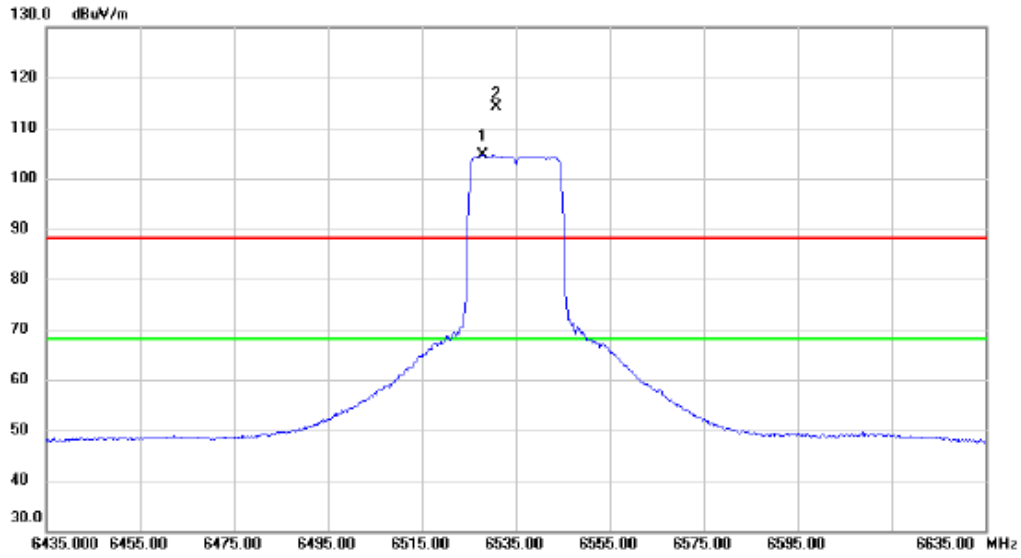
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	12929.200	51.61	0.08	51.69	88.20	-36.51	peak	
2 *	12932.300	40.19	0.09	40.28	68.20	-27.92	AVG	

**REMARKS:**

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



Test Mode	UNII-7_TX AX(HE20) Mode 6535 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

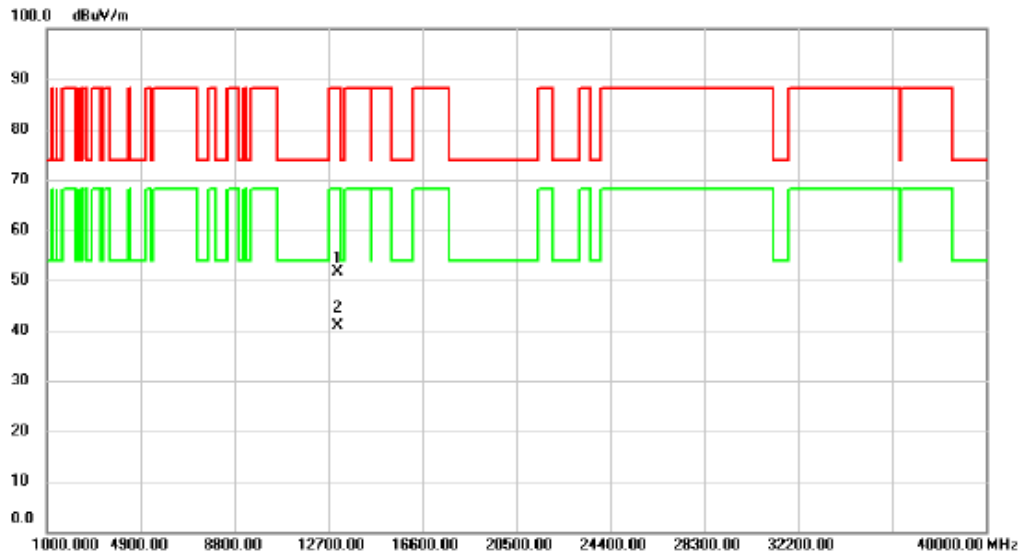


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	6527.800	114.8	-10.30	104.57	68.20	36.37	AVG	No Limit
2	X	6530.800	124.4	-10.31	114.15	88.20	25.95	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-7_TX AX(HE20) Mode 6535 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

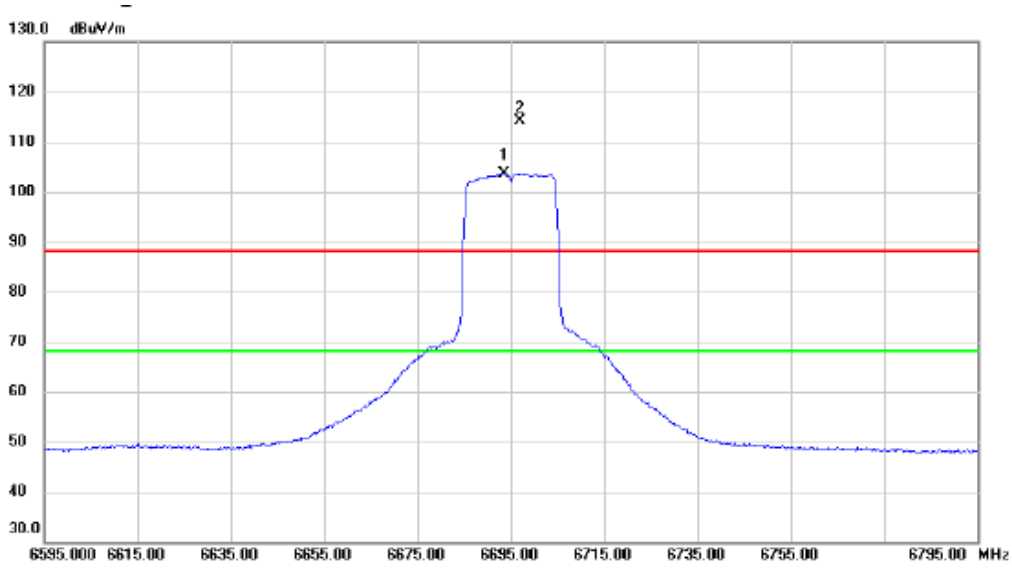


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		13070.500	51.27	0.32	51.59	88.20	-36.61	peak	
2	*	13079.020	40.63	0.33	40.96	68.20	-27.24	AVG	

**REMARKS:**

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

Test Mode	UNII-7_TX AX(HE20) Mode 6695 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

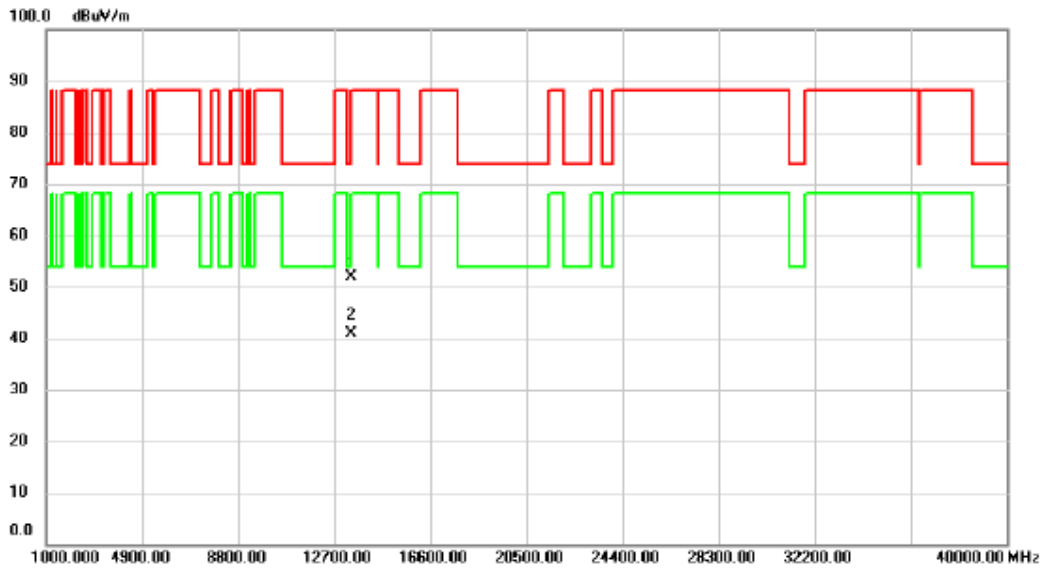


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	6693.600	113.8	-10.09	103.72	68.20	35.52	AVG	No Limit
2	X	6697.000	124.1	-10.09	114.03	88.20	25.83	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-7_TX AX(HE20) Mode 6695 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

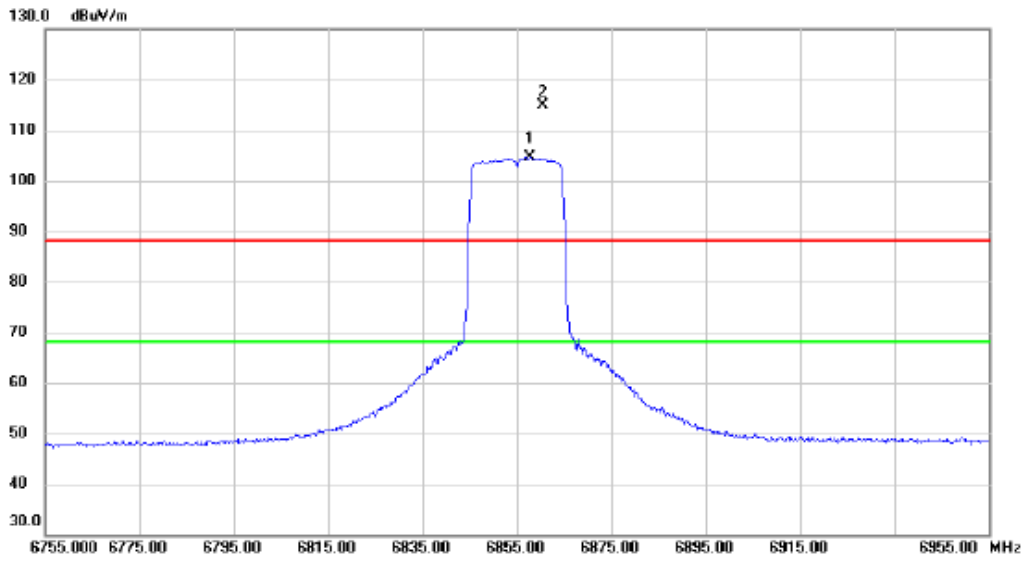


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		13389.660	51.16	0.62	51.78	74.00	-22.22	peak	
2	*	13398.760	40.13	0.63	40.76	54.00	-13.24	AVG	

**REMARKS:**

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

Test Mode	UNII-7_TX AX(HE20) Mode 6855 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

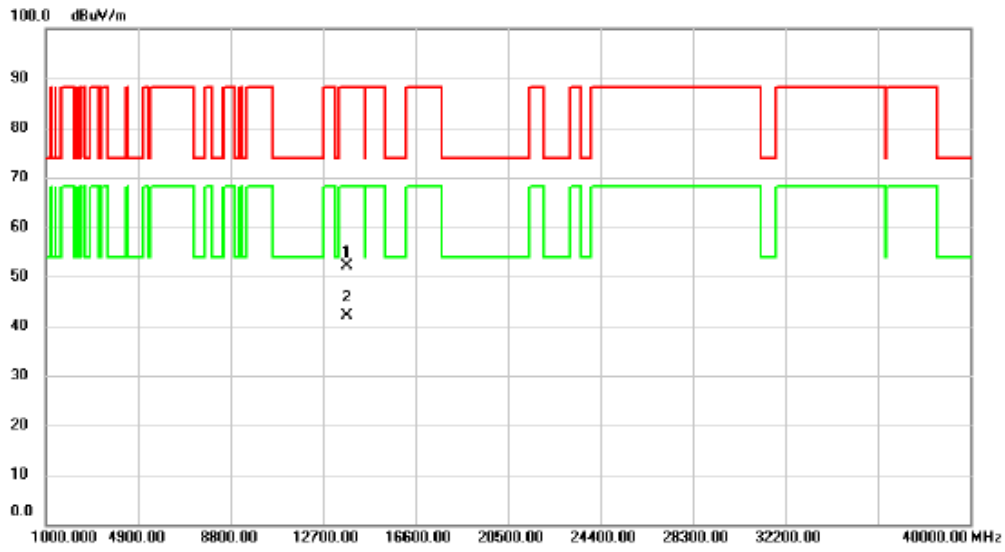


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	6857.800	114.5	-9.87	104.69	68.20	36.49	AVG	No Limit
2	X	6860.400	124.7	-9.87	114.86	88.20	26.66	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-7_TX AX(HE20) Mode 6855 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

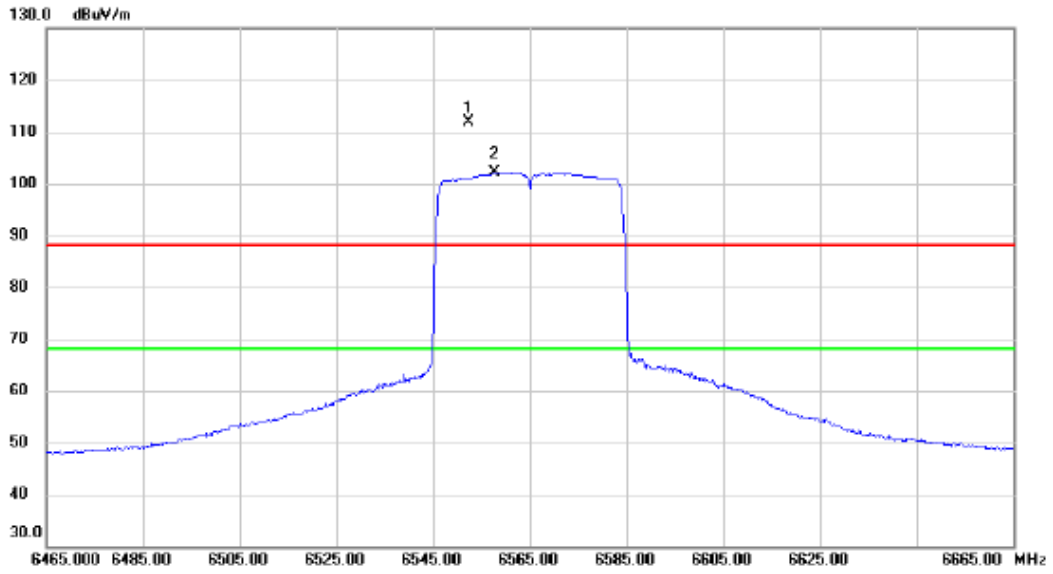


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	13711.240	50.92	1.13	52.05	88.20	-36.15	peak	
2 *	13718.420	41.01	1.15	42.16	68.20	-26.04	AVG	

**REMARKS:**

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

Test Mode	UNII-7_TX AX(HE40) Mode 6565 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

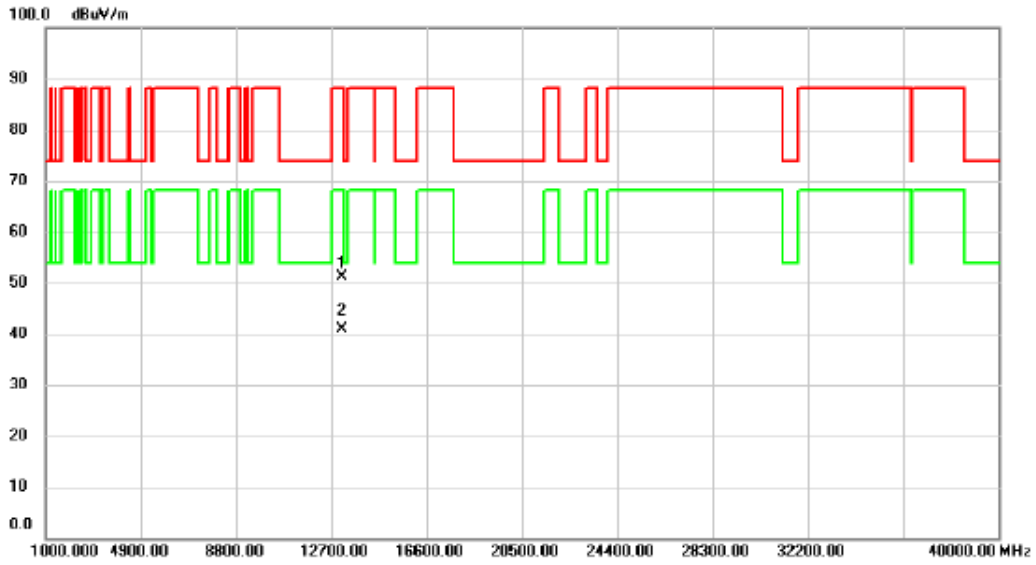


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	6552.400	122.0	-10.27	111.78	88.20	23.58	peak	No Limit
2	*	6557.600	112.4	-10.27	102.18	68.20	33.98	AVG	No Limit

**REMARKS:**

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

Test Mode	UNII-7_TX AX(HE40) Mode 6565 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------



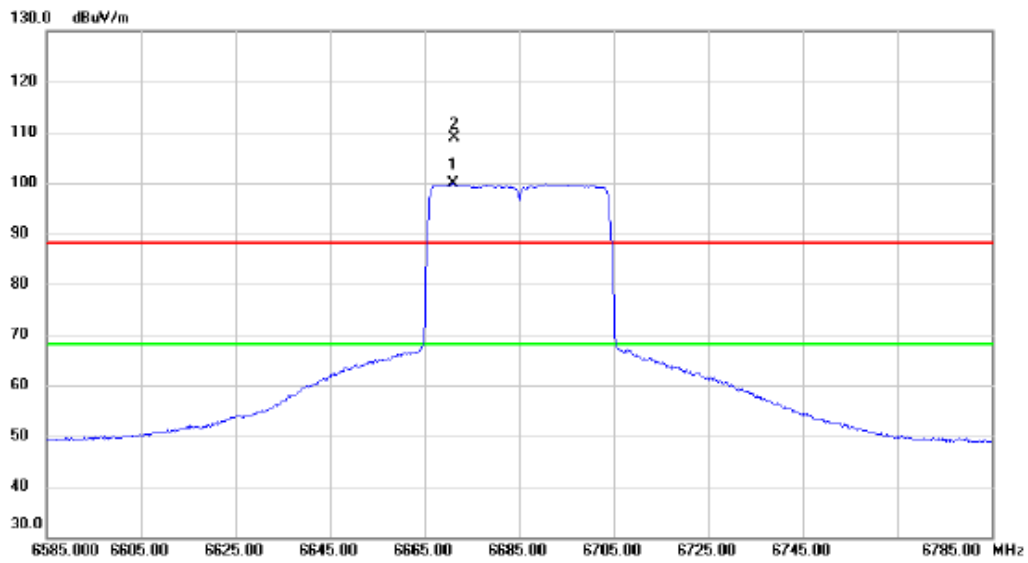
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		13122.560	50.66	0.37	51.03	88.20	-37.17	peak	
2	*	13126.740	40.58	0.37	40.95	68.20	-27.25	AVG	

**REMARKS:**

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



Test Mode	UNII-7_TX AX(HE40) Mode 6685 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

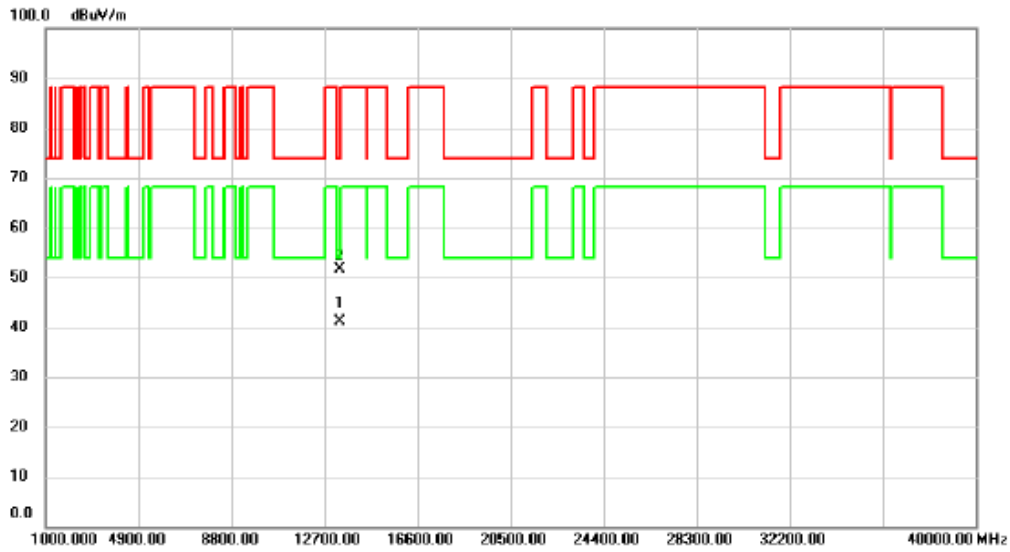


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	6671.000	109.9	-10.12	99.83	68.20	31.63	AVG	No Limit
2	X	6671.200	119.0	-10.12	108.93	88.20	20.73	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-7_TX AX(HE40) Mode 6685 MHz	Polarization	Horizontal I
-----------	----------------------------------	--------------	--------------

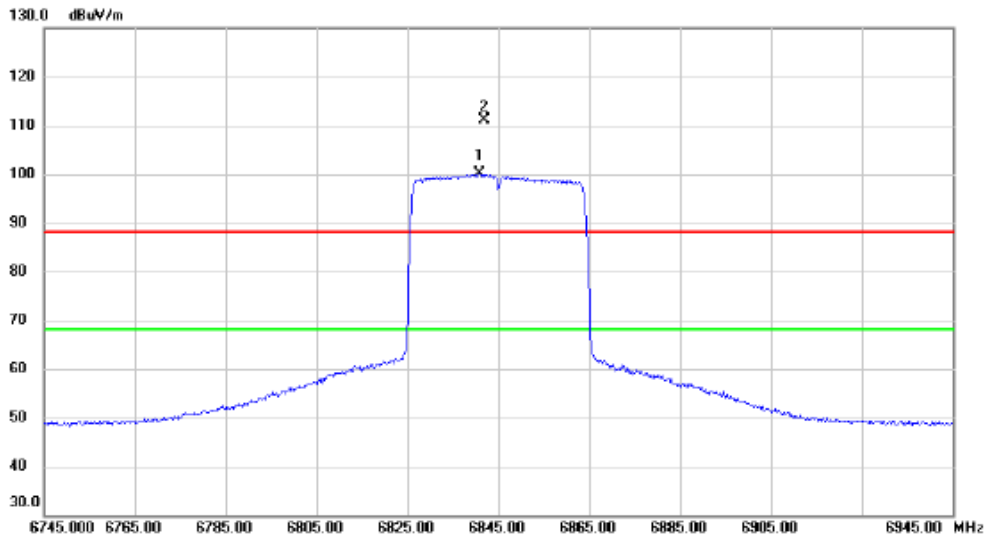


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	13371.480	40.52	0.61	41.13	54.00	-12.87	AVG	
2	13372.020	51.00	0.61	51.61	74.00	-22.39	peak	

**REMARKS:**

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

Test Mode	UNII-7_TX AX(HE40) Mode 6845 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

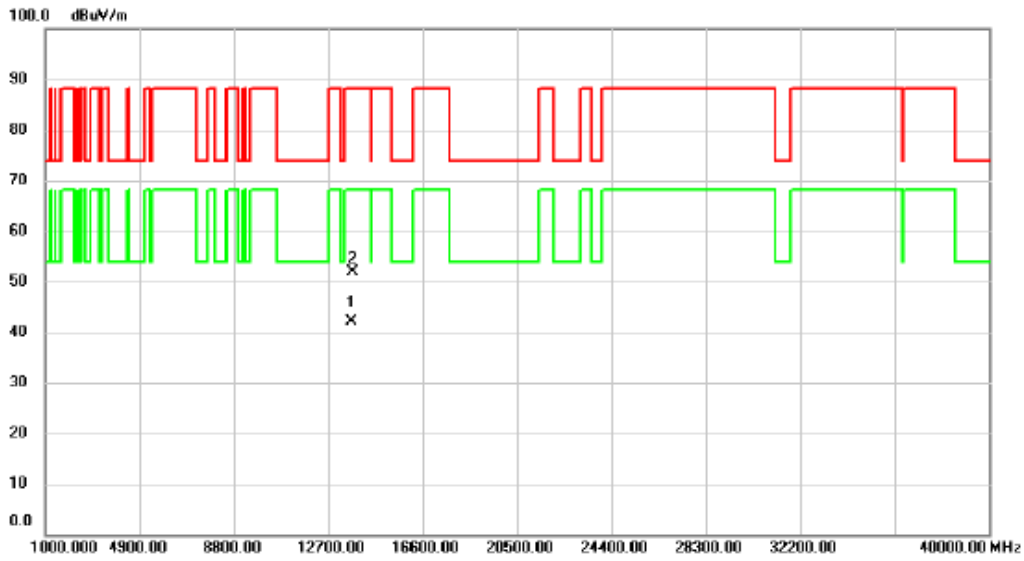


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	6840.800	109.9	-9.89	100.02	68.20	31.82	AVG	No Limit
2	X	6841.800	121.1	-9.89	111.23	88.20	23.03	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-7_TX AX(HE40) Mode 6845 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

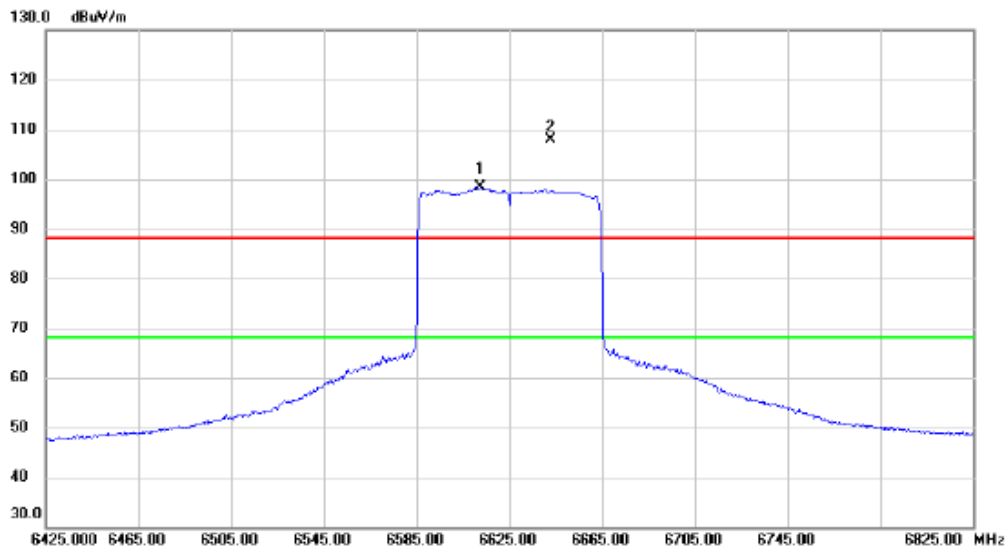


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	13682.260	40.93	1.08	42.01	68.20	-26.19	AVG	
2		13688.320	50.72	1.09	51.81	88.20	-36.39	peak	

**REMARKS:**

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

Test Mode	UNII-7_TX AX(HE80) Mode 6625 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

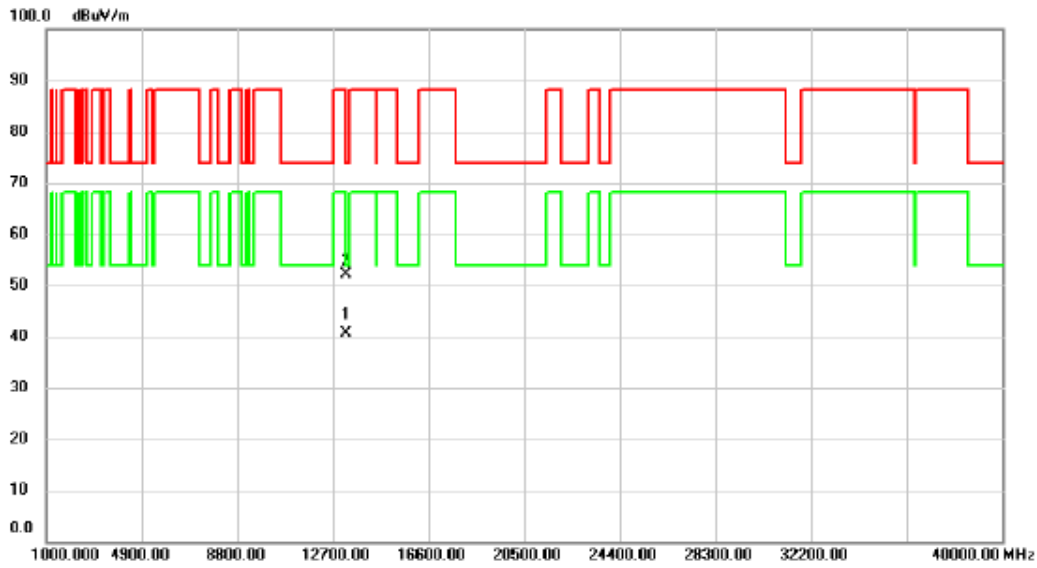


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	6612.600	108.5	-10.20	98.34	68.20	30.14	AVG	No Limit
2	X	6642.600	117.9	-10.16	107.77	88.20	19.57	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-7_TX AX(HE80) Mode 6625 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

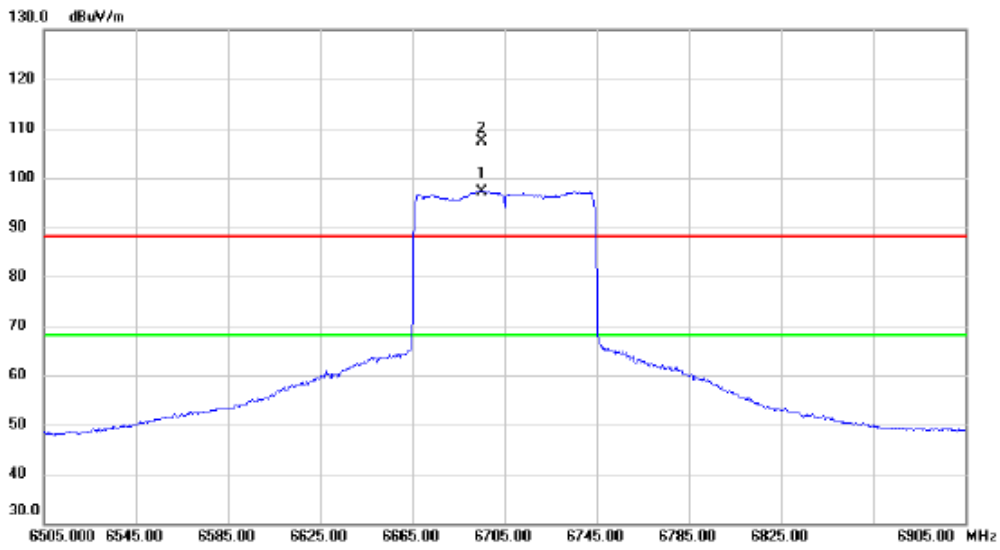


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	13250.300	40.15	0.49	40.64	54.00	-13.36	AVG	
2	13251.115	51.58	0.49	52.07	74.00	-21.93	peak	

REMARKS:

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

Test Mode	UNII-7_TX AX(HE80) Mode 6705 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

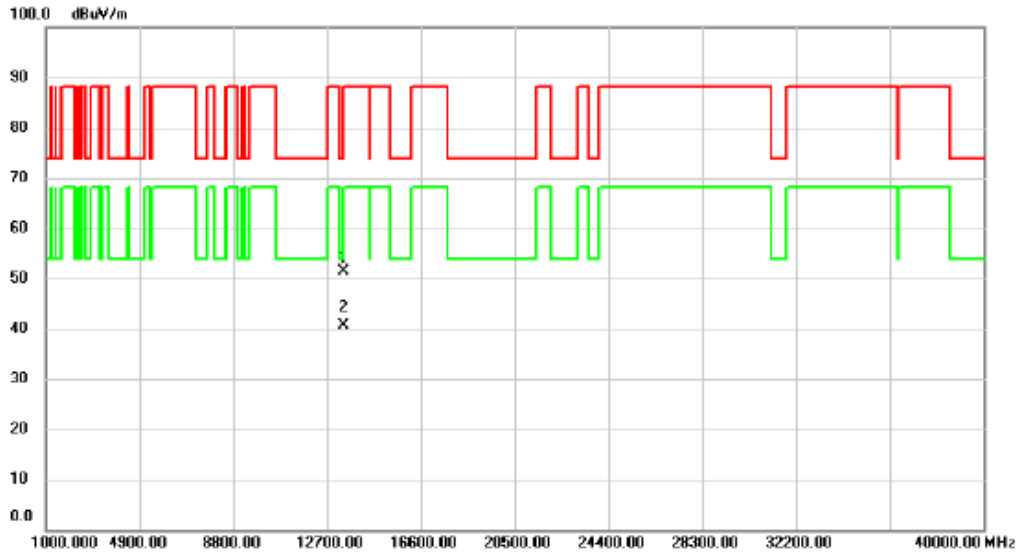


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	6695.000	107.3	-10.08	97.22	68.20	29.02	AVG	No Limit
2	X	6695.400	117.5	-10.08	107.46	88.20	19.26	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-7_TX AX(HE80) Mode 6705 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------



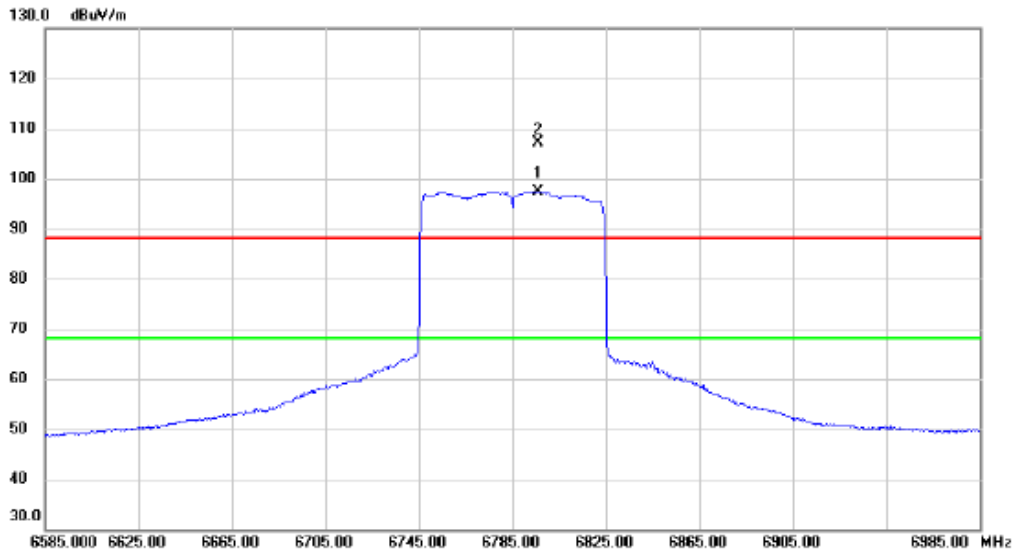
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		13408.130	50.70	0.63	51.33	88.20	-36.87	peak	
2	*	13412.440	39.93	0.64	40.57	68.20	-27.63	AVG	

**REMARKS:**

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



Test Mode	UNII-7_TX AX(HE80) Mode 6785 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

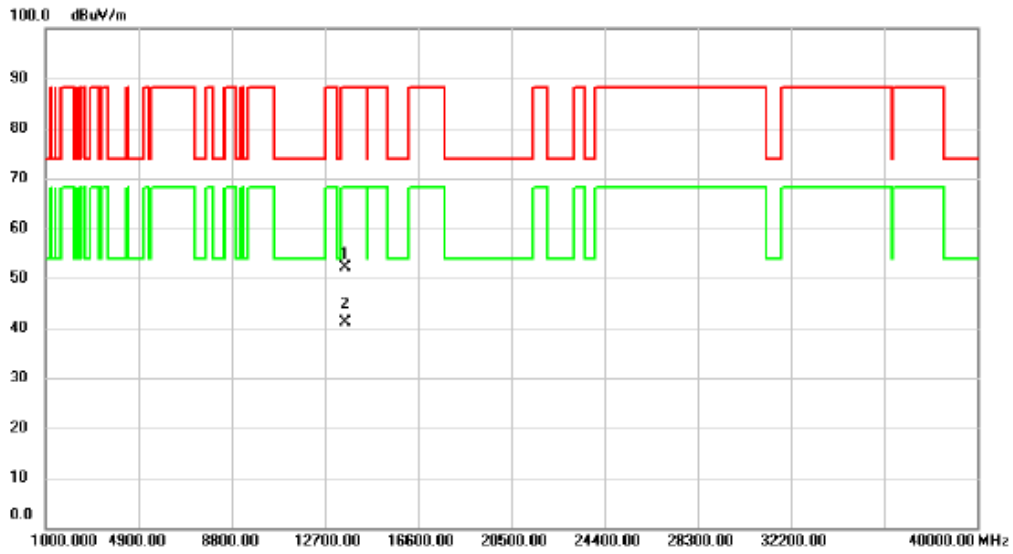


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	6795.800	107.4	-9.95	97.45	68.20	29.25	AVG	No Limit
2	X	6796.200	117.1	-9.95	107.18	88.20	18.98	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-7_TX AX(HE80) Mode 6785 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

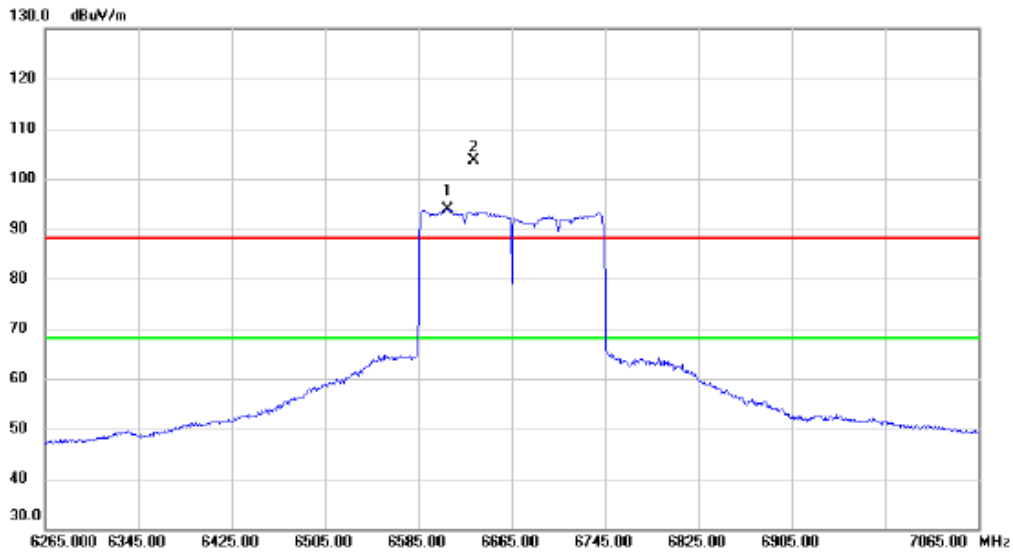


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		13570.320	51.31	0.85	52.16	88.20	-36.04	peak	
2	*	13570.910	40.38	0.86	41.24	68.20	-26.96	AVG	

**REMARKS:**

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

Test Mode	UNII-7_TX AX(HE160) Mode 6665 MHz	Polarization	Vertical
-----------	-----------------------------------	--------------	----------

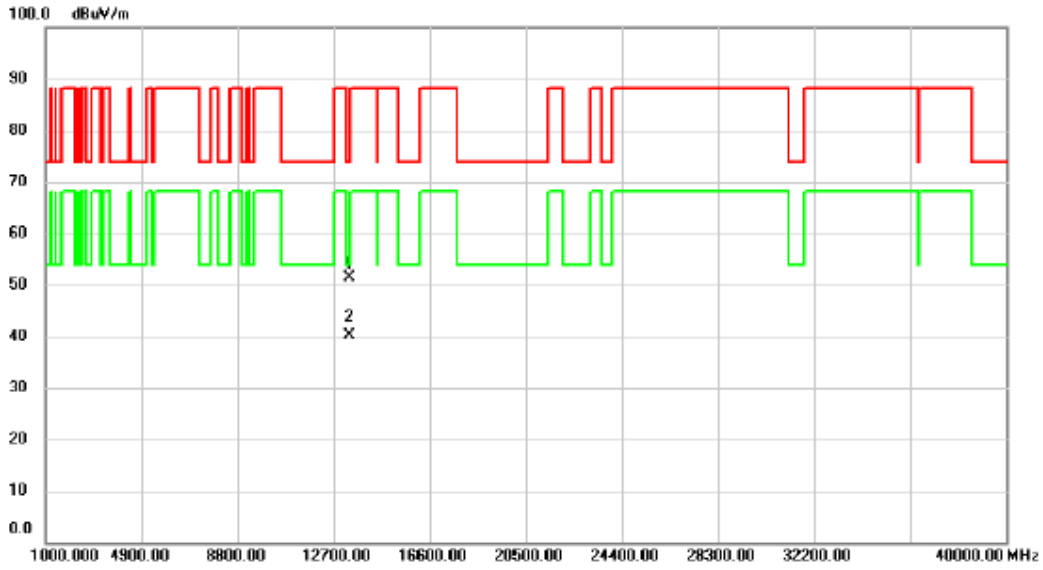


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	6609.800	104.1	-10.20	93.97	68.20	25.77	AVG	No Limit
2	X	6632.200	113.8	-10.17	103.64	88.20	15.44	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-7_TX AX(HE160) Mode 6665 MHz	Polarization	Horizontal
-----------	-----------------------------------	--------------	------------

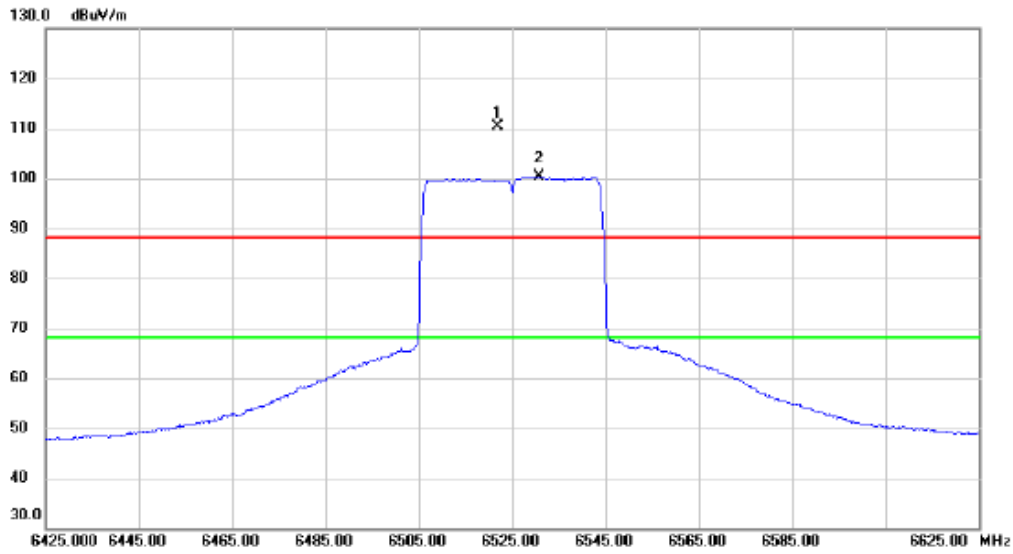


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	13330.000	50.76	0.57	51.33	74.00	-22.67	peak	
2 *	13330.000	39.54	0.57	40.11	54.00	-13.89	AVG	

**REMARKS:**

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

Test Mode	UNII-6+UNII-7_TX AX(HE40) Mode 6525 MHz	Polarization	Vertical
-----------	---	--------------	----------

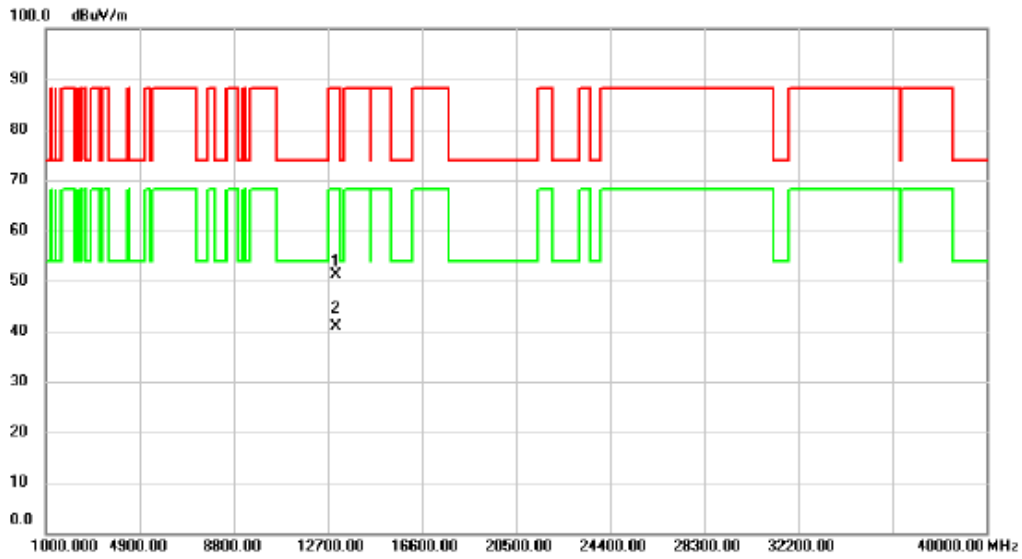


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	6521.800	120.7	-10.32	110.39	88.20	22.19	peak	No Limit
2	*	6530.600	110.6	-10.31	100.35	68.20	32.15	AVG	No Limit

**REMARKS:**

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

Test Mode	UNII-6+UNII-7_TX AX(HE40) Mode 6525 MHz	Polarization	Horizontal
-----------	---	--------------	------------

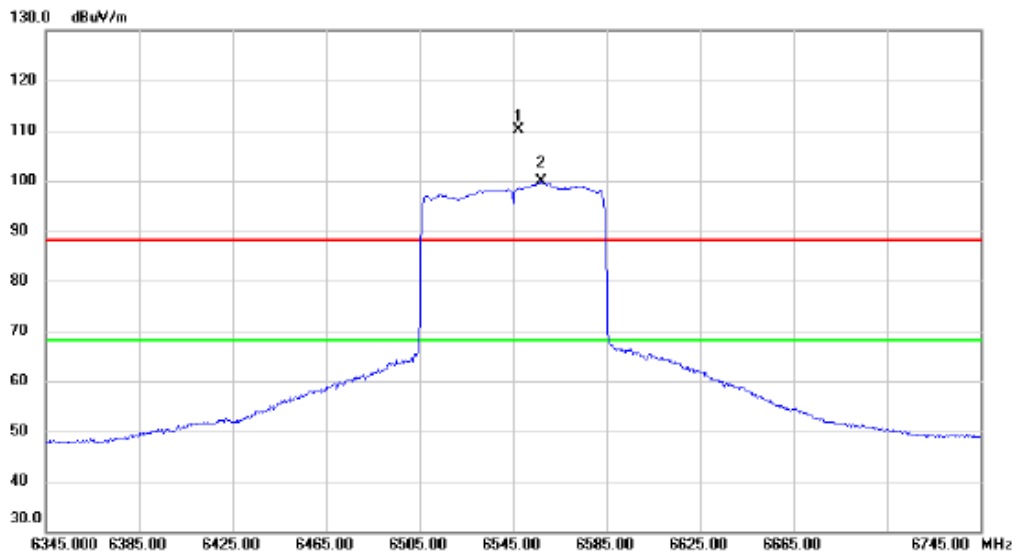


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		13057.880	50.92	0.32	51.24	88.20	-36.96	peak	
2	*	13058.080	40.57	0.32	40.89	68.20	-27.31	AVG	

**REMARKS:**

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

Test Mode	UNII-6+UNII-7_TX AX(HE80) Mode 6545 MHz	Polarization	Vertical
-----------	---	--------------	----------

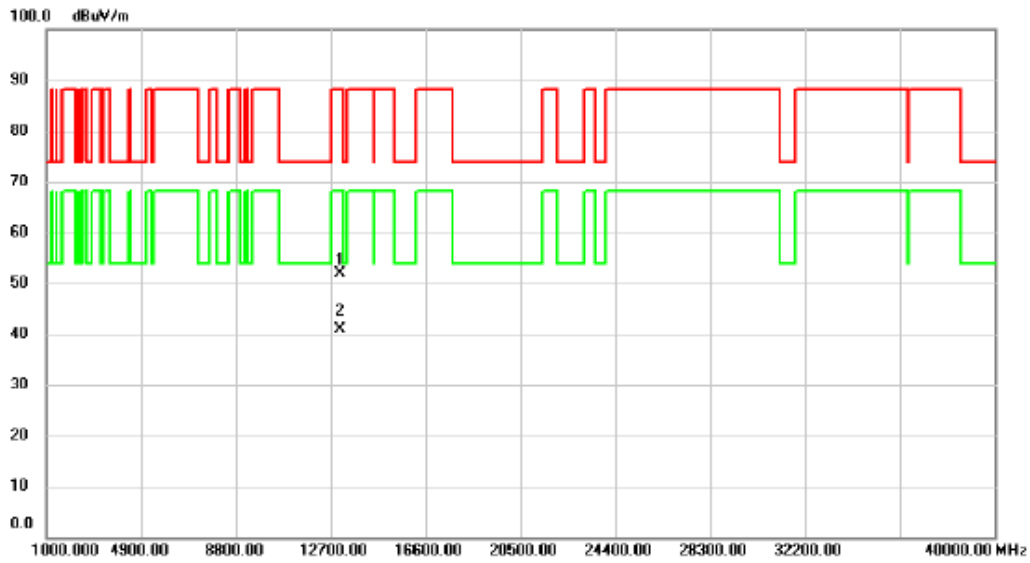


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	6547.400	120.3	-10.29	110.08	88.20	21.88	peak	No Limit
2	*	6557.000	110.1	-10.27	99.85	68.20	31.65	AVG	No Limit

**REMARKS:**

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

Test Mode	UNII-6+UNII-7_TX AX(HE80) Mode 6545 MHz	Polarization	Horizontal
-----------	---	--------------	------------



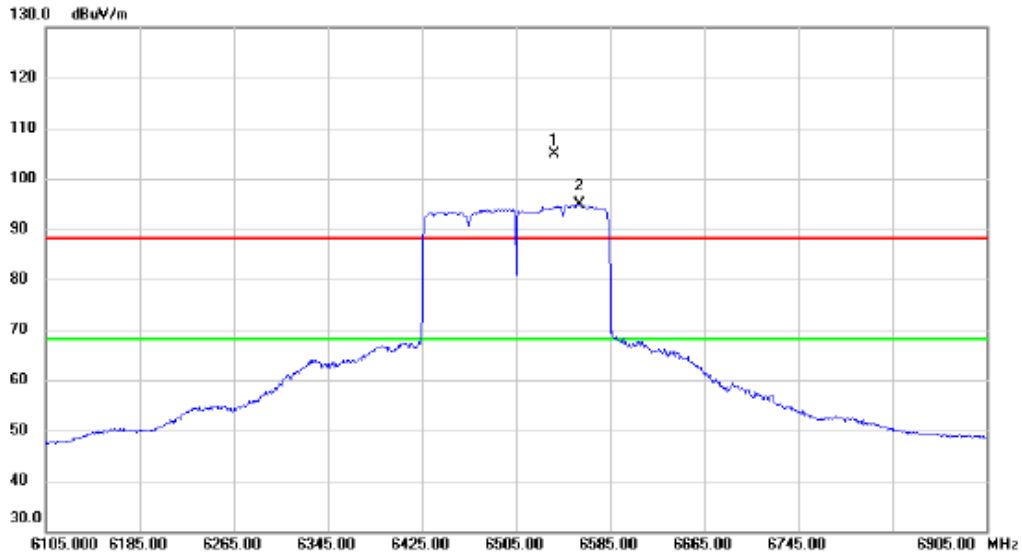
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		13090.380	51.62	0.35	51.97	88.20	-36.23	peak	
2	*	13091.710	40.43	0.35	40.78	68.20	-27.42	AVG	

**REMARKS:**

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



Test Mode	UNII-6+UNII-7_TX AX(HE160) Mode 6505 MHz	Polarization	Vertical
-----------	--	--------------	----------

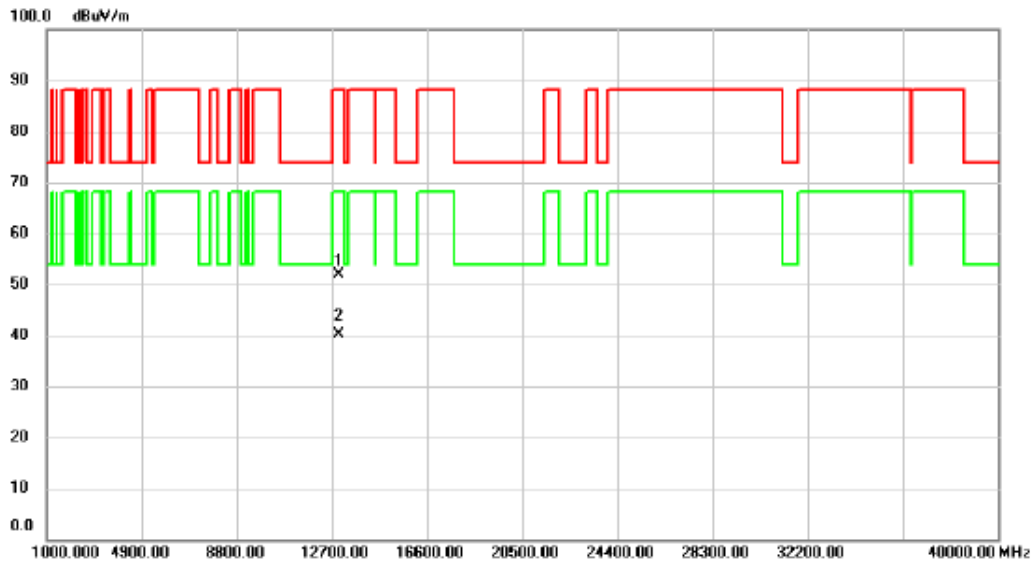


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	6537.000	115.2	-10.29	104.97	88.20	16.77	peak	No Limit
2	*	6559.400	105.2	-10.27	94.98	68.20	26.78	AVG	No Limit

**REMARKS:**

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

Test Mode	UNII-6+UNII-7_TX AX(HE160) Mode 6505 MHz	Polarization	Horizontal
-----------	--	--------------	------------

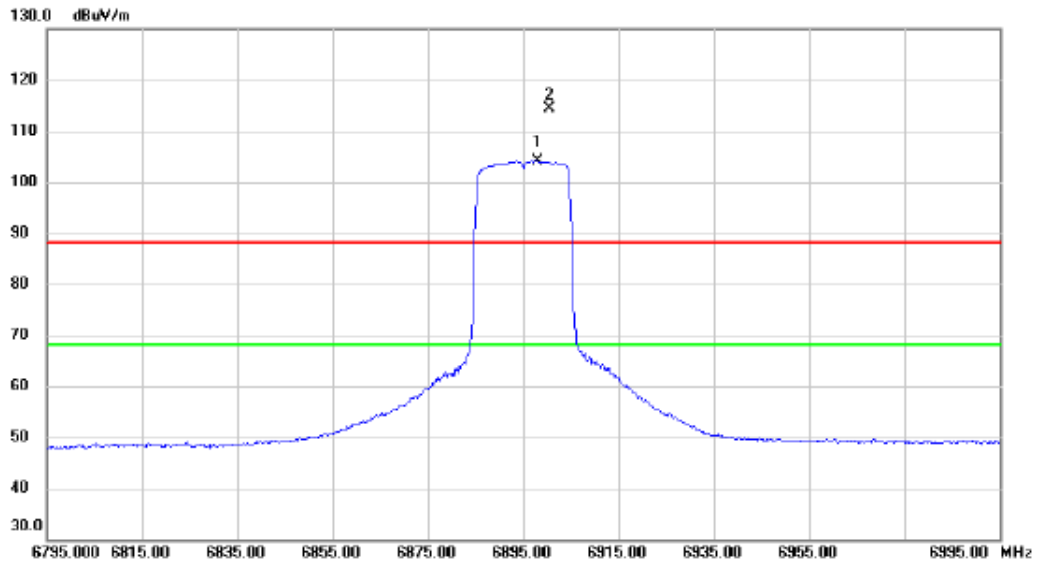


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	13010.000	51.62	0.27	51.89	88.20	-36.31	peak	
2 *	13010.000	39.82	0.27	40.09	68.20	-28.11	AVG	

**REMARKS:**

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

Test Mode	UNII-8_TX AX(HE20) Mode 6895 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

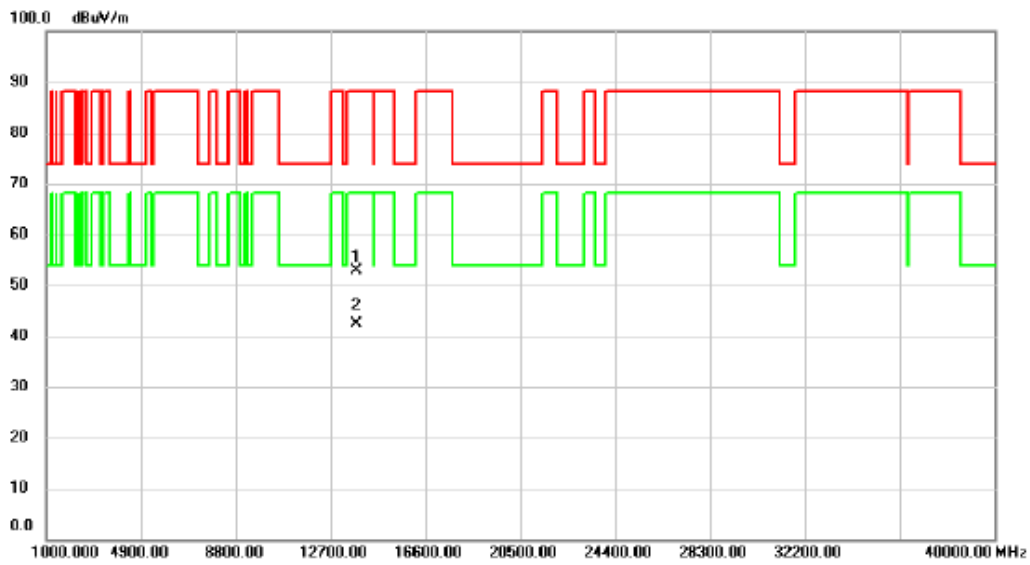


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	6898.000	113.9	-9.81	104.13	68.20	35.93	AVG	No Limit
2	X	6900.400	124.2	-9.81	114.43	88.20	26.23	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-8_TX AX(HE20) Mode 6895 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

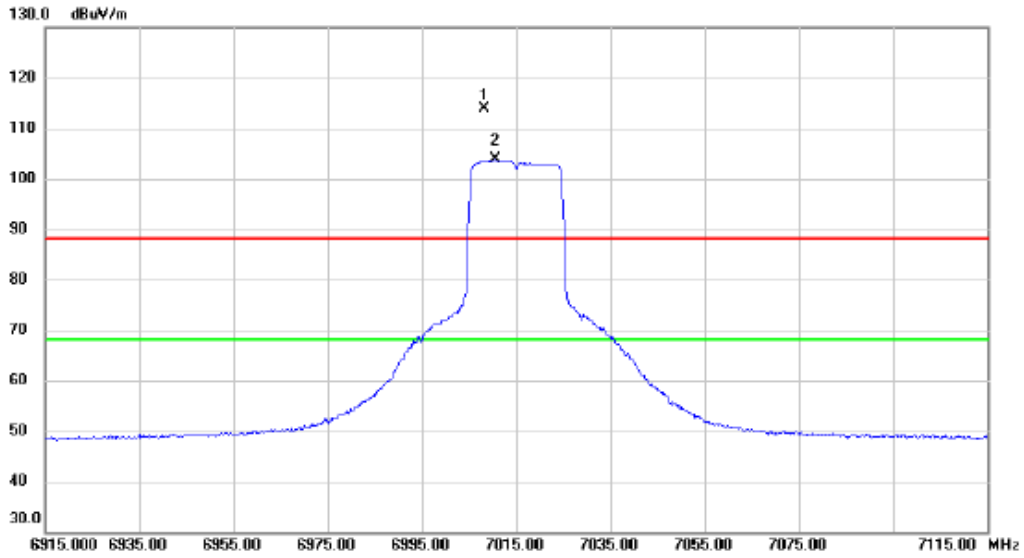


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		13780.000	51.54	1.27	52.81	88.20	-35.39	peak	
2	*	13780.060	41.14	1.27	42.41	68.20	-25.79	AVG	

**REMARKS:**

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

Test Mode	UNII-8_TX AX(HE20) Mode 7015 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

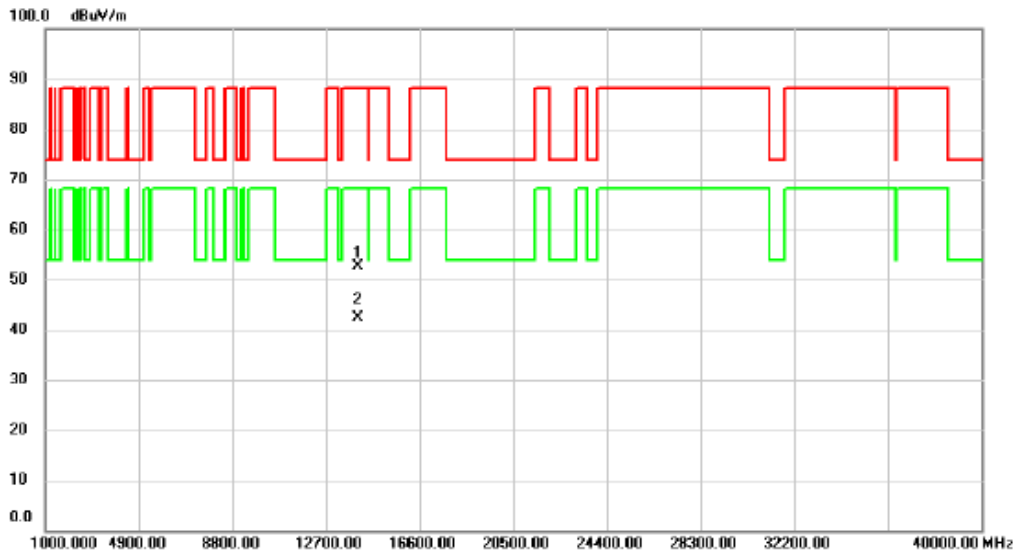


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	X	7008.200	123.5	-9.65	113.91	88.20	25.71	peak	No Limit
2	*	7010.600	113.4	-9.65	103.81	68.20	35.61	AVG	No Limit

REMARKS:

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

Test Mode	UNII-8_TX AX(HE20) Mode 7015 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

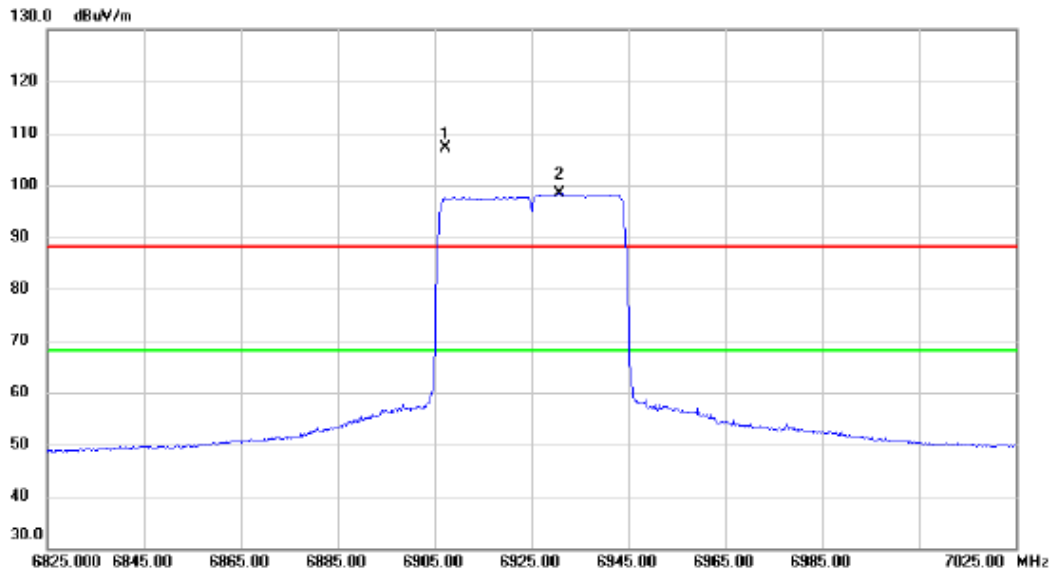


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	14036.840	50.78	1.78	52.56	88.20	-35.64	peak	
2 *	14038.620	40.48	1.78	42.26	68.20	-25.94	AVG	

**REMARKS:**

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

Test Mode	UNII-8_TX AX(HE40) Mode 6925 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

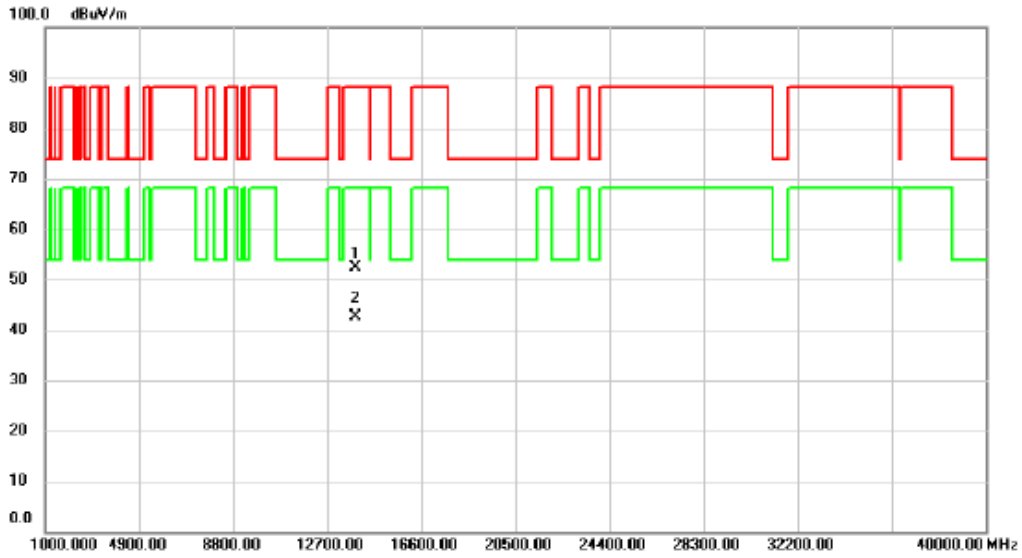


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1 X	6907.200	116.9	-9.80	107.13	88.20	18.93	peak	No Limit
2 *	6930.600	108.2	-9.78	98.45	68.20	30.25	AVG	No Limit

**REMARKS:**

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

Test Mode	UNII-8_TX AX(HE40) Mode 6925 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------



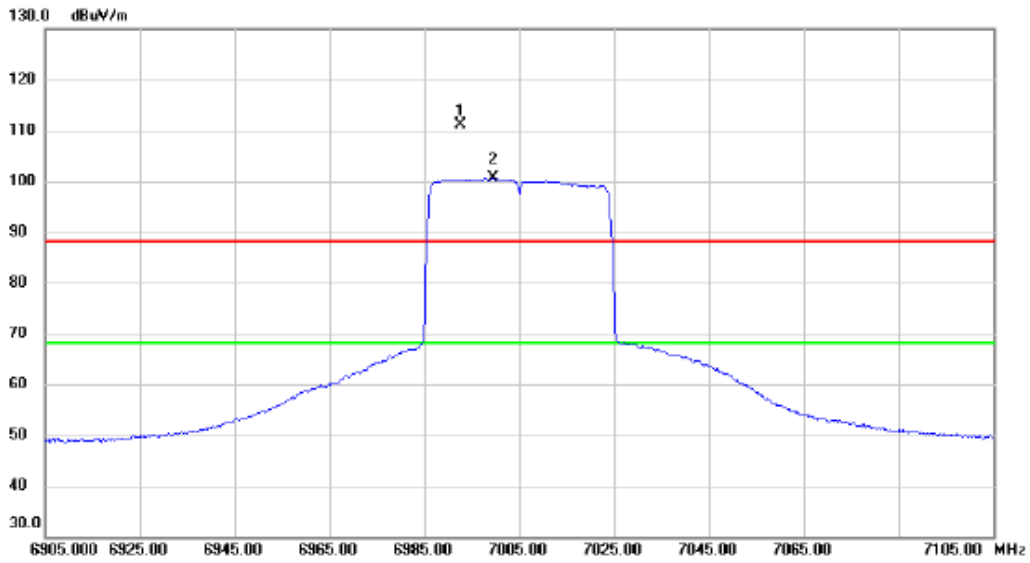
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		13848.280	50.98	1.40	52.38	88.20	-35.82	peak	
2	*	13853.320	41.18	1.41	42.59	68.20	-25.61	AVG	

**REMARKS:**

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



Test Mode	UNII-8_TX AX(HE40) Mode 7005 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

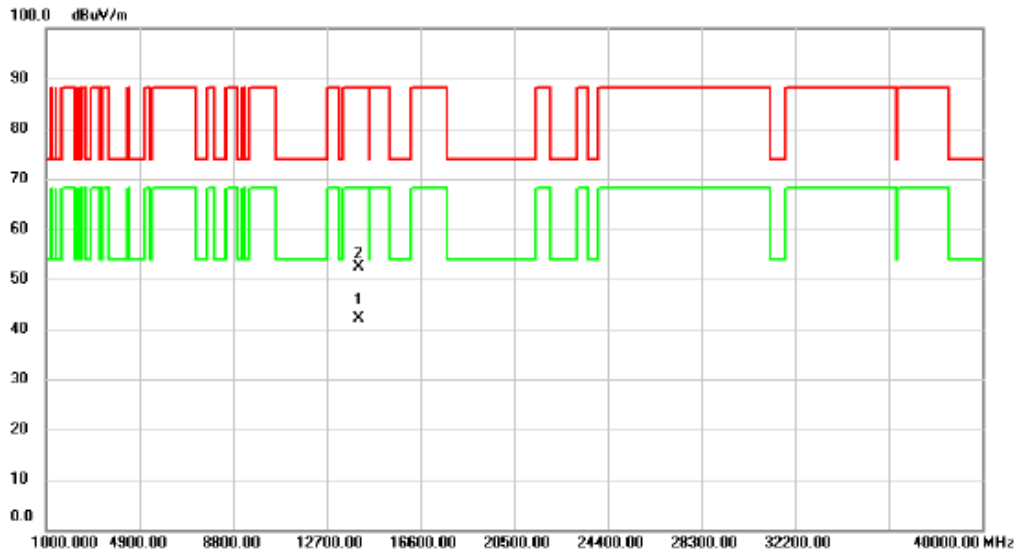


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	6992.600	120.7	-9.69	111.01	88.20	22.81	peak	No Limit
2	*	6999.600	110.2	-9.68	100.55	68.20	32.35	AVG	No Limit

**REMARKS:**

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

Test Mode	UNII-8_TX AX(HE40) Mode 7005 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

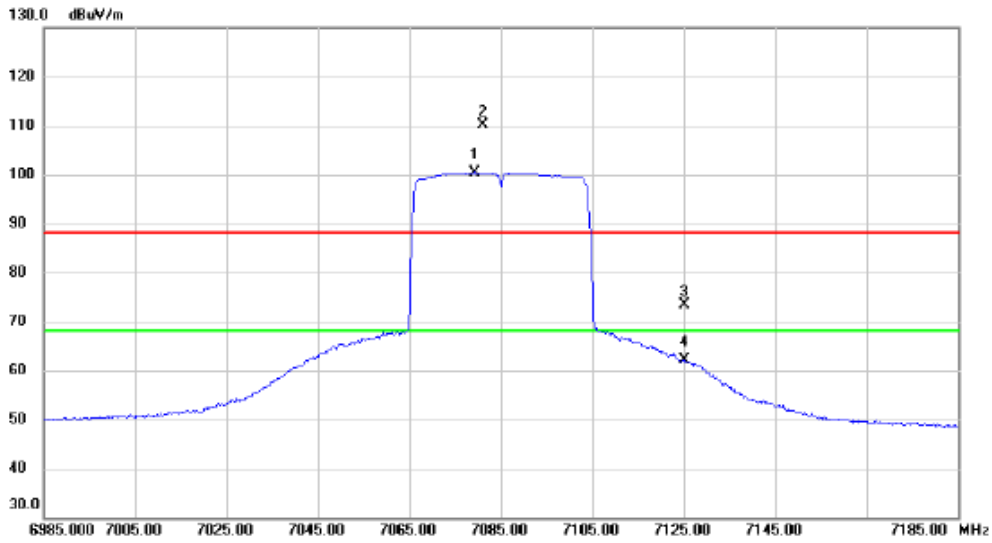


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	14003.180	40.54	1.69	42.23	68.20	-25.97	AVG	
2		14017.740	50.61	1.73	52.34	68.20	-35.86	peak	

**REMARKS:**

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

Test Mode	UNII-8_TX AX(HE40) Mode 7085 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

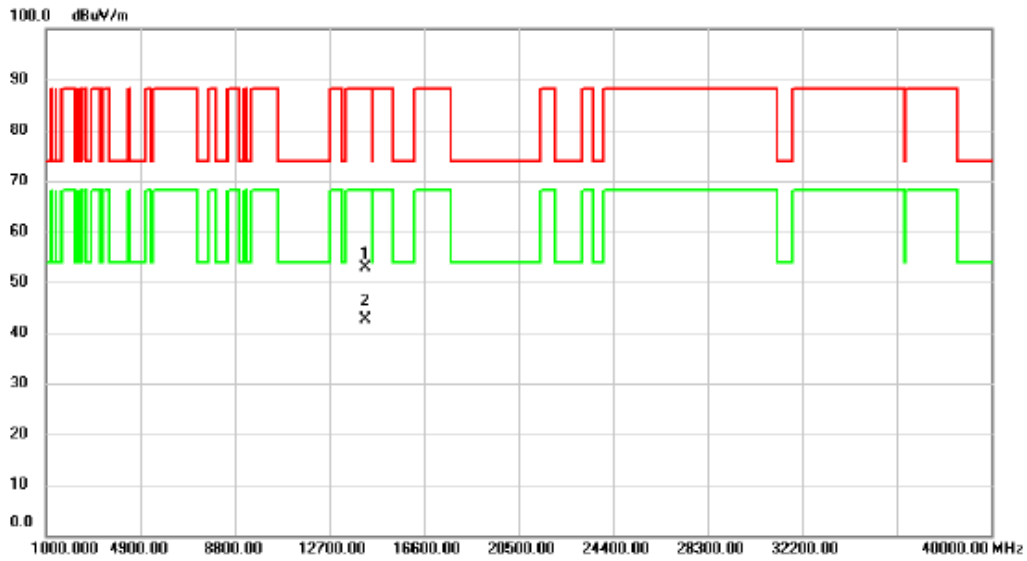


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	7079.400	109.9	-9.43	100.50	68.20	32.30	AVG	No Limit
2	X	7081.200	119.5	-9.43	110.09	88.20	21.89	peak	No Limit
3		7125.000	82.59	-9.29	73.30	88.20	-14.90	peak	
4		7125.000	71.35	-9.29	62.06	68.20	-6.14	AVG	

**REMARKS:**

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

Test Mode	UNII-8_TX AX(HE40) Mode 7085 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

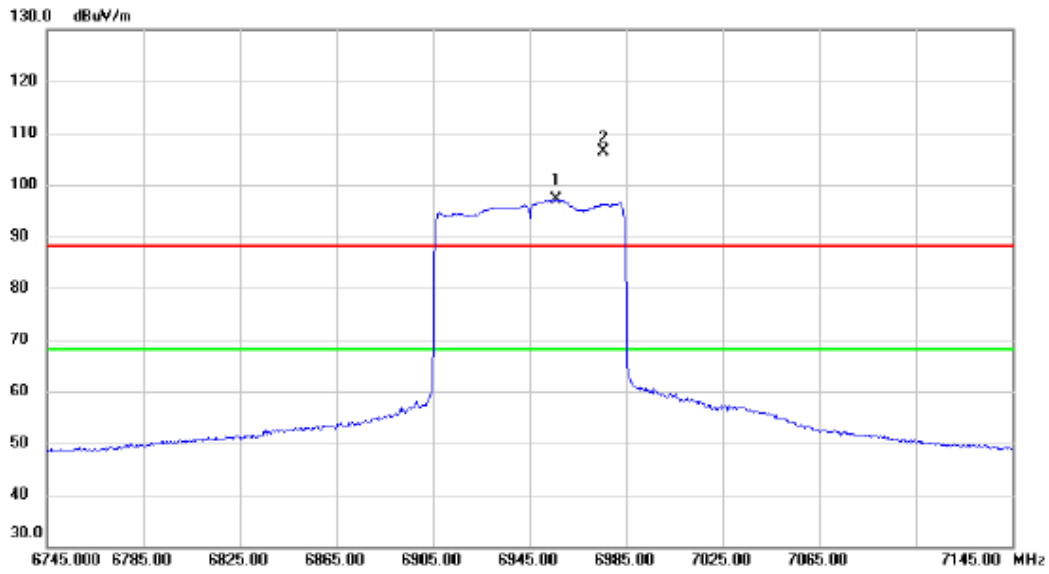


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		14170.140	50.68	2.11	52.79	88.20	-35.41	peak	
2	*	14176.640	40.61	2.14	42.75	68.20	-25.45	AVG	

**REMARKS:**

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

Test Mode	UNII-8_TX AX(HE80) Mode 6945 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

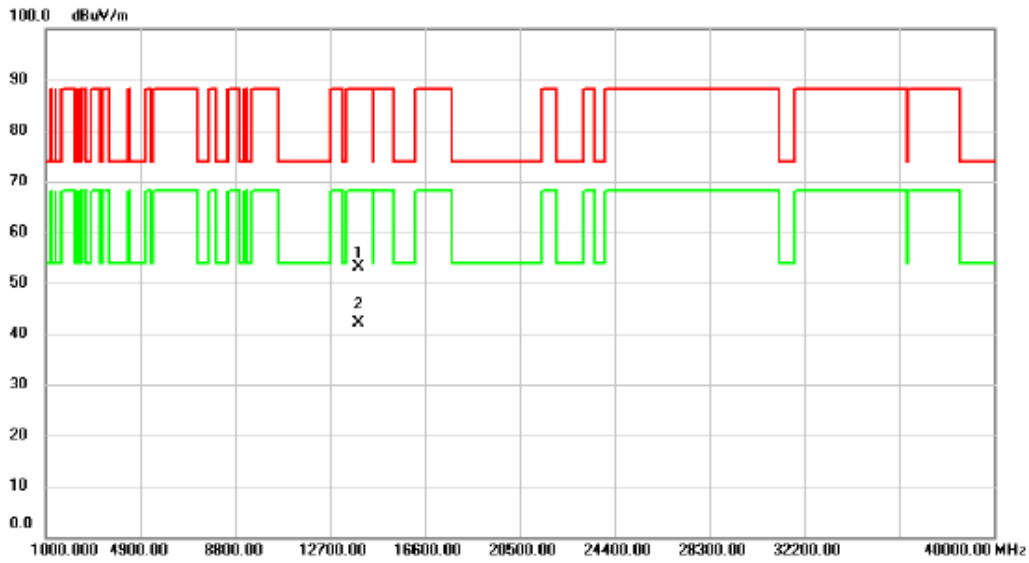


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	6956.200	106.7	-9.74	97.04	68.20	28.84	AVG	No Limit
2	X	6975.800	116.1	-9.71	106.45	88.20	18.25	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-8_TX AX(HE80) Mode 6945 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------

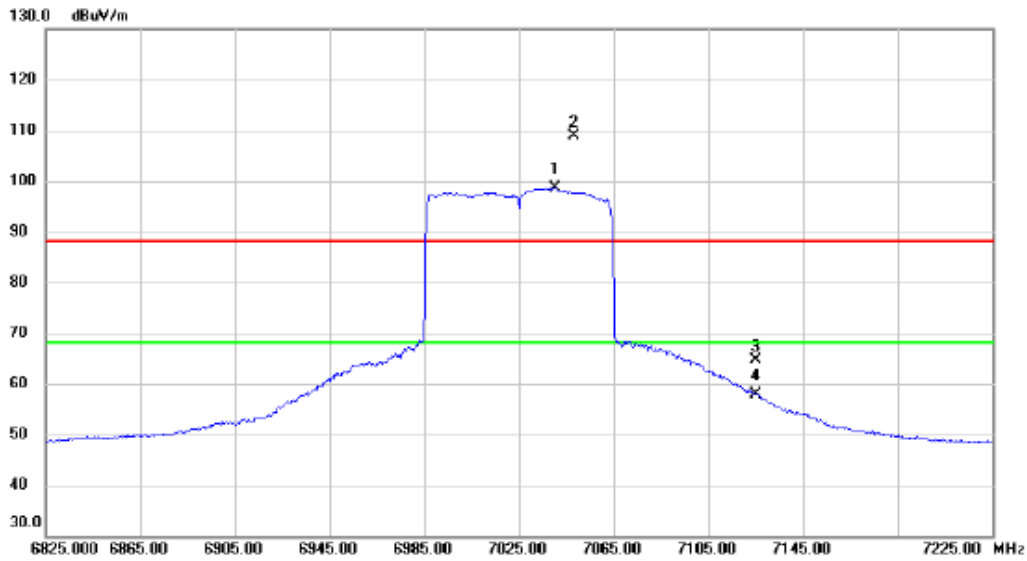


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	13888.260	51.55	1.47	53.02	88.20	-35.18	peak	
2 *	13891.035	40.65	1.48	42.13	68.20	-26.07	AVG	

**REMARKS:**

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

Test Mode	UNII-8_TX AX(HE80) Mode 7025 MHz	Polarization	Vertical
-----------	----------------------------------	--------------	----------

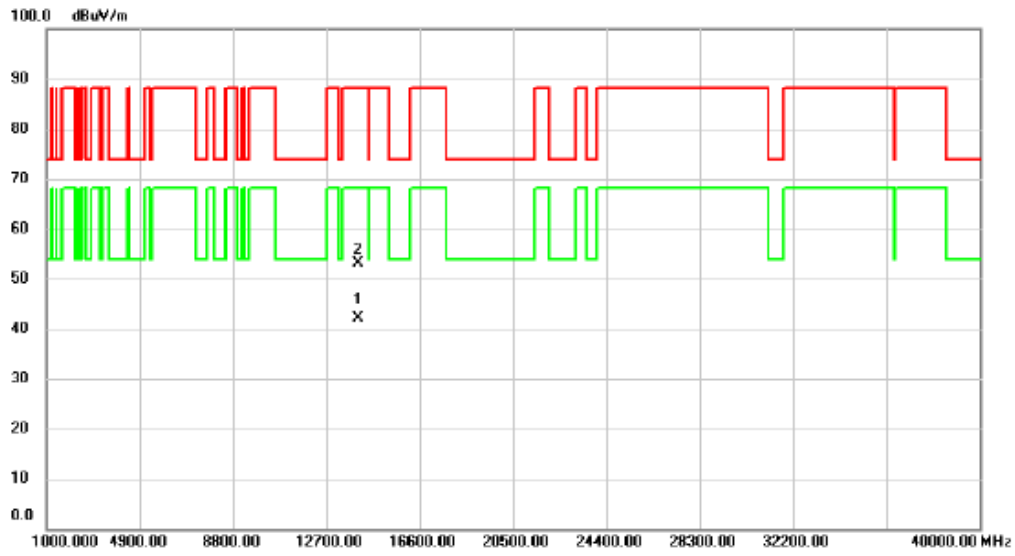


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	7040.200	108.1	-9.56	98.61	68.20	30.41	AVG	No Limit
2	X	7048.200	118.3	-9.52	108.87	88.20	20.67	peak	No Limit
3		7125.000	73.87	-9.29	64.58	88.20	-23.62	peak	
4		7125.000	67.10	-9.29	57.81	68.20	-10.39	AVG	

**REMARKS:**

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

Test Mode	UNII-8_TX AX(HE80) Mode 7025 MHz	Polarization	Horizontal
-----------	----------------------------------	--------------	------------



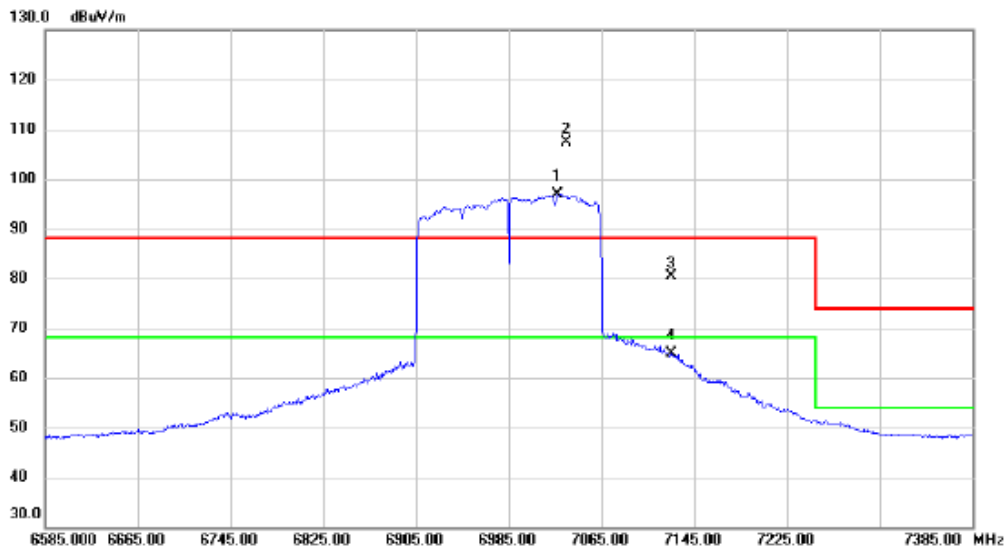
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	14049.015	40.27	1.82	42.09	68.20	-26.11	AVG	
2	14050.355	51.20	1.82	53.02	88.20	-35.18	peak	

**REMARKS:**

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



Test Mode	UNII-8_TX AX(HE160) Mode 6985 MHz	Polarization	Vertical
-----------	-----------------------------------	--------------	----------

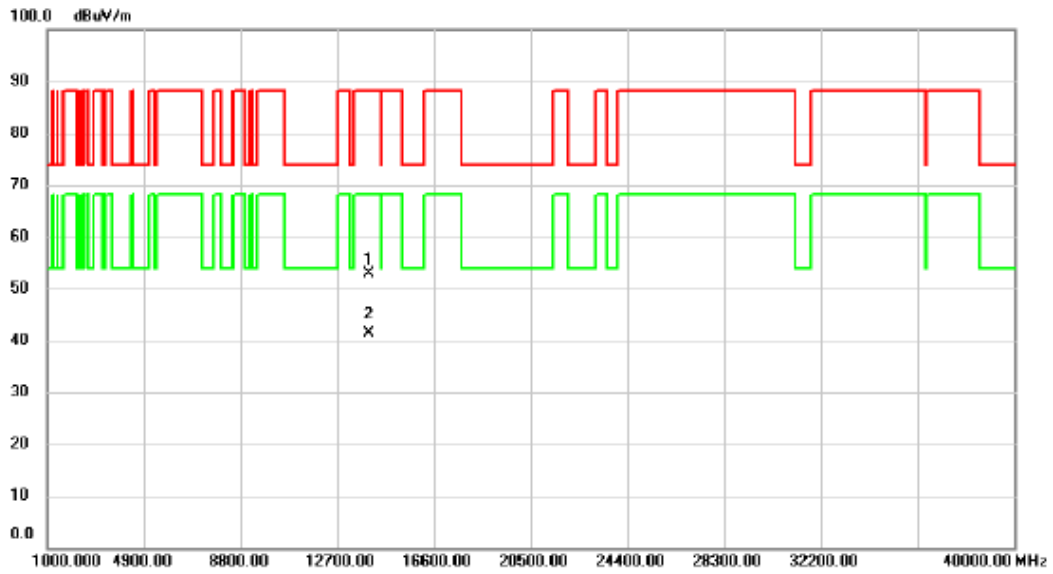


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	7027.400	106.4	-9.60	96.86	68.20	28.66	AVG	No Limit
2	X	7034.600	117.0	-9.57	107.47	88.20	19.27	peak	No Limit
3		7125.000	89.60	-9.29	80.31	88.20	-7.89	peak	
4		7125.000	74.07	-9.29	64.78	68.20	-3.42	AVG	

**REMARKS:**

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

Test Mode	UNII-8_TX AX(HE160) Mode 6985 MHz	Polarization	Horizontal
-----------	-----------------------------------	--------------	------------

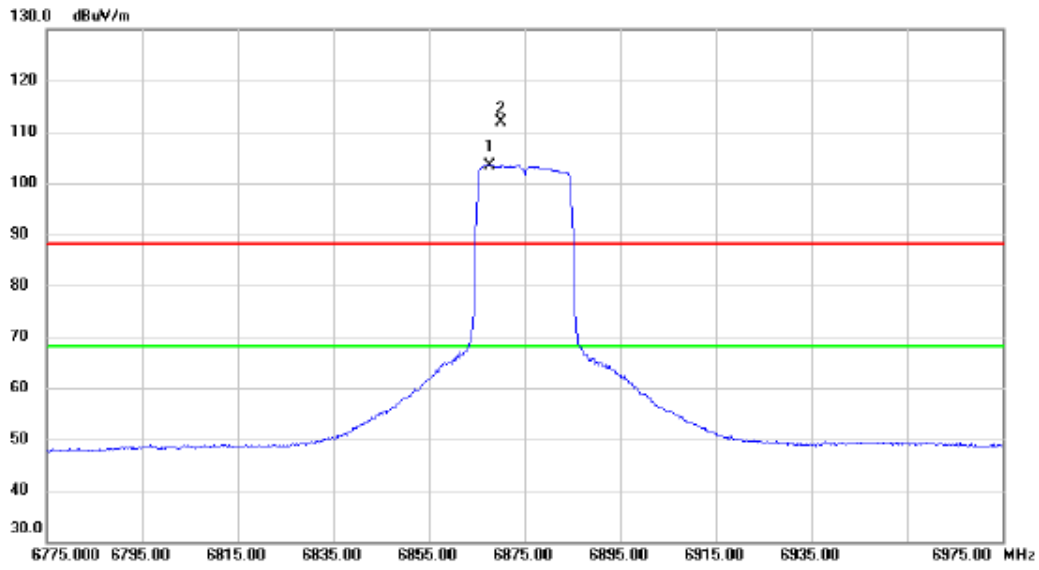


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	13970.000	51.24	1.63	52.87	88.20	-35.33	peak	
2 *	13970.000	39.69	1.63	41.32	68.20	-26.88	AVG	

**REMARKS:**

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

Test Mode	UNII-7+UNII-8_TX AX(HE20) Mode 6875 MHz	Polarization	Vertical
-----------	---	--------------	----------

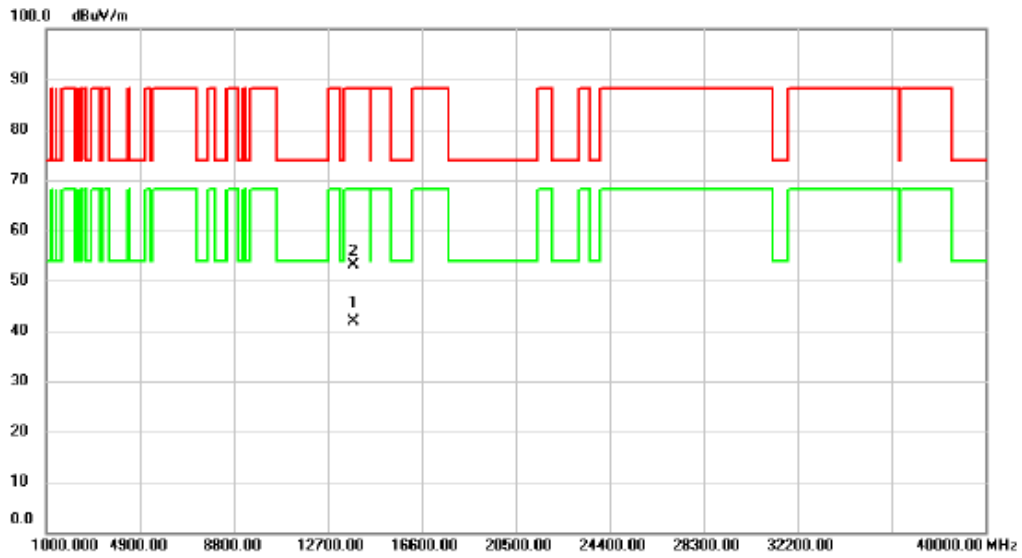


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	6867.600	113.2	-9.86	103.38	68.20	35.18	AVG	No Limit
2	X	6870.200	121.8	-9.85	111.98	88.20	23.78	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-7+UNII-8_TX AX(HE20) Mode 6875 MHz	Polarization	Horizontal
-----------	---	--------------	------------

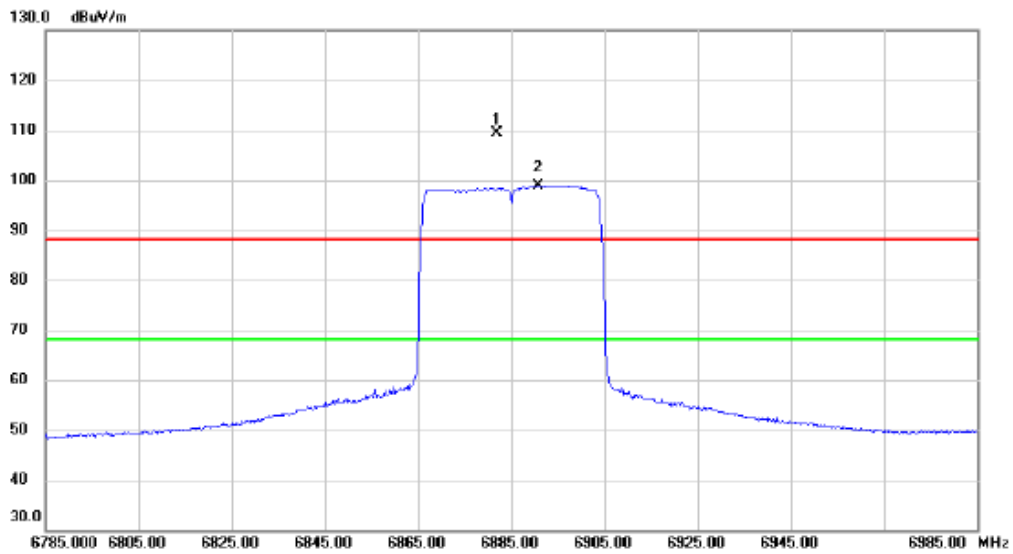


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	13747.860	40.71	1.21	41.92	68.20	-26.28	AVG	
2		13758.820	51.84	1.22	53.06	88.20	-35.14	peak	

**REMARKS:**

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

Test Mode	UNII-7+UNII-8_TX AX(HE40) Mode 6885 MHz	Polarization	Vertical
-----------	---	--------------	----------

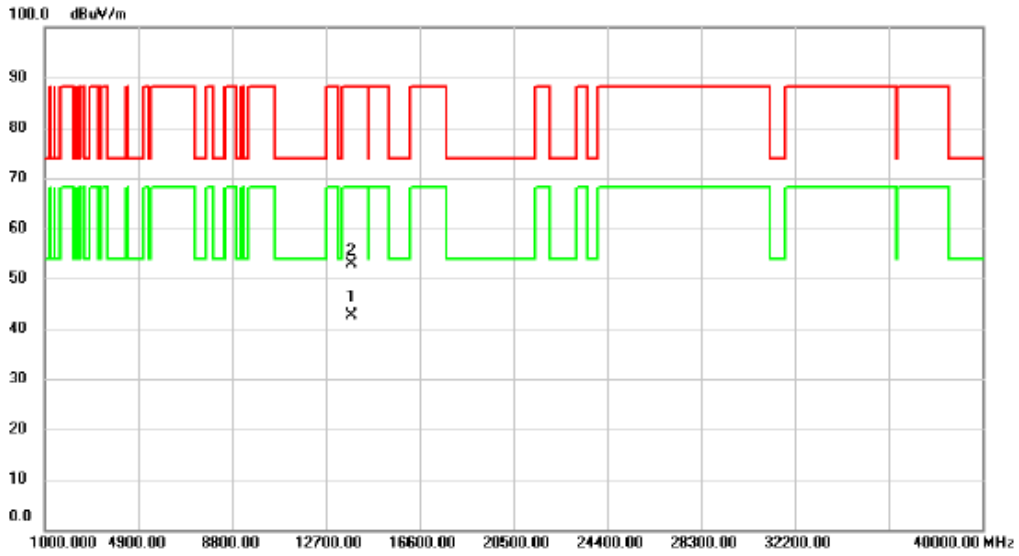


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	6882.000	119.2	-9.83	109.43	88.20	21.23	peak	No Limit
2	*	6890.600	108.8	-9.82	98.98	68.20	30.78	AVG	No Limit

**REMARKS:**

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

Test Mode	UNII-7+UNII-8_TX AX(HE40) Mode 6885 MHz	Polarization	Horizontal
-----------	---	--------------	------------

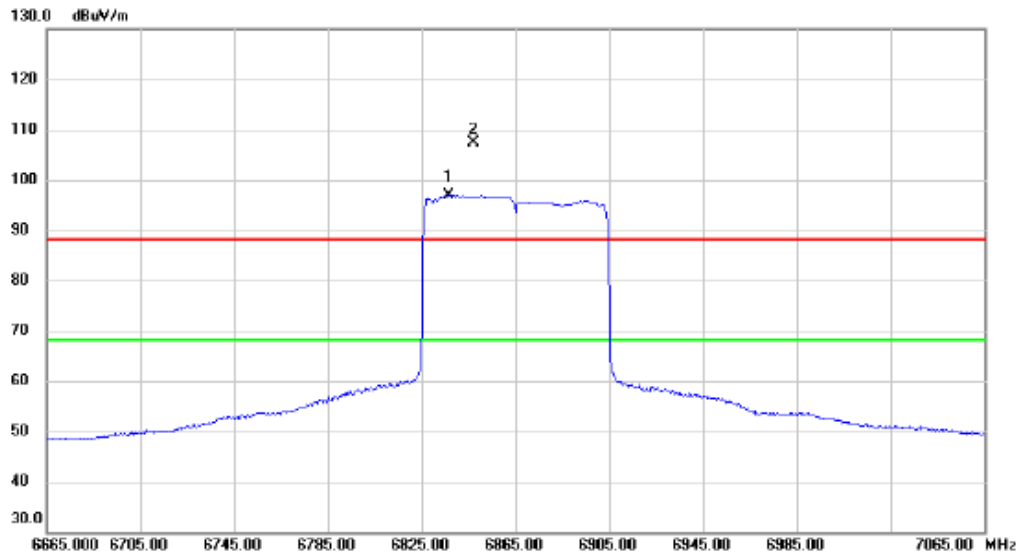


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	13765.020	41.43	1.23	42.66	68.20	-25.54	AVG	
2		13765.760	51.74	1.23	52.97	88.20	-35.23	peak	

**REMARKS:**

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

Test Mode	UNII-7+UNII-8_TX AX(HE80) Mode 6865 MHz	Polarization	Vertical
-----------	---	--------------	----------

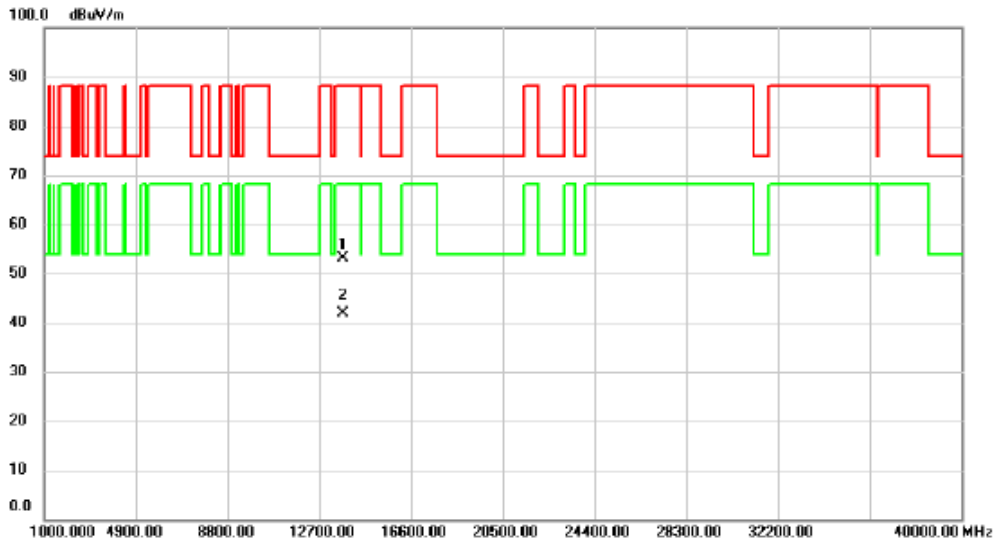


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	6836.600	106.8	-9.90	96.90	68.20	28.70	AVG	No Limit
2	X	6847.000	117.1	-9.89	107.27	88.20	19.07	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-7+UNII-8_TX AX(HE80) Mode 6865 MHz	Polarization	Horizontal
-----------	---	--------------	------------



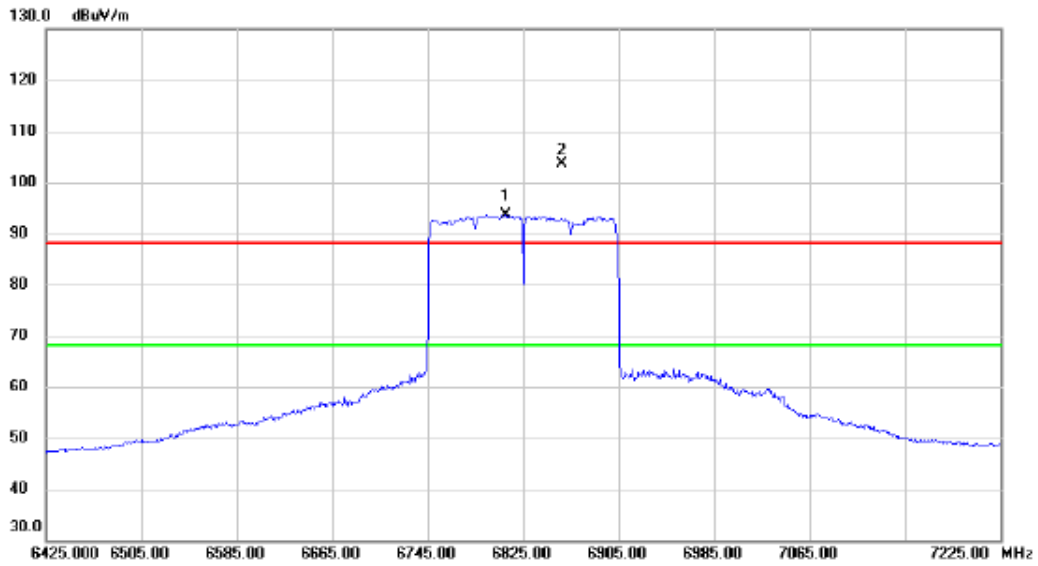
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		13727.800	51.91	1.16	53.07	88.20	-35.13	peak	
2	*	13732.355	40.71	1.17	41.88	68.20	-26.32	AVG	

**REMARKS:**

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



Test Mode	UNII-7+UNII-8_TX AX(HE160) Mode 6825 MHz	Polarization	Vertical
-----------	--	--------------	----------

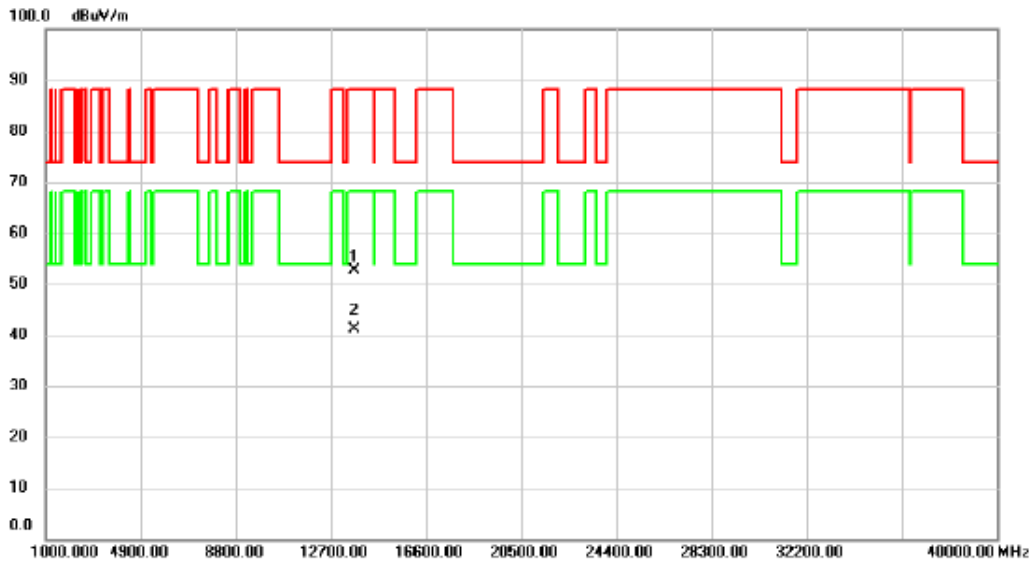


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	6810.600	103.6	-9.93	93.70	68.20	25.50	AVG	No Limit
2	X	6857.000	113.5	-9.87	103.70	88.20	15.50	peak	No Limit

**REMARKS:**

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

Test Mode	UNII-7+UNII-8_TX AX(HE160) Mode 6825 MHz	Polarization	Horizontal
-----------	--	--------------	------------



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		13650.000	51.53	1.01	52.54	88.20	-35.66	peak	
2	*	13650.000	40.00	1.01	41.01	68.20	-27.19	AVG	

**REMARKS:**

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

## APPENDIX E - BANDWIDTH

Test Mode	UNII-5_TX AX(HE20) Mode
-----------	-------------------------

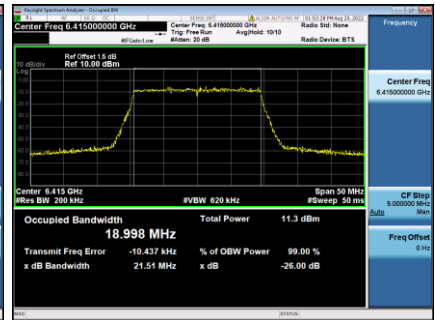
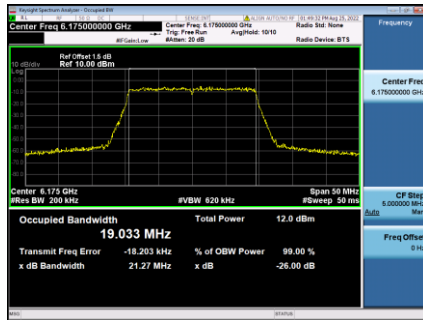
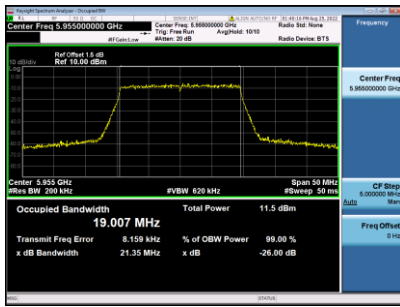
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Limit (MHz)	Result
01	5955	21.35	19.14	320	Complies
45	6175	21.27	19.15	320	Complies
93	6415	21.51	19.14	320	Complies

**CH01**

**CH45**

**CH93**

**26 dB Bandwidth**



**99 % Occupied Bandwidth**

